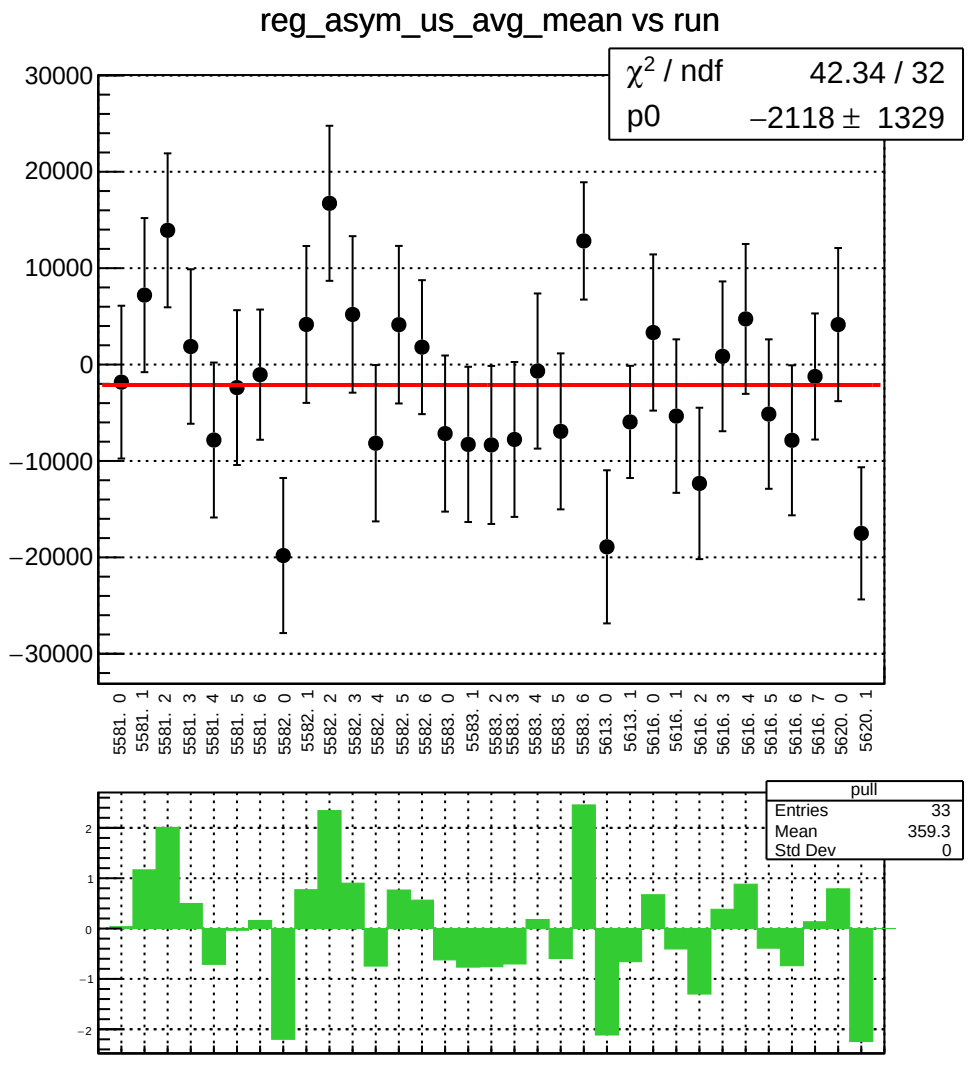
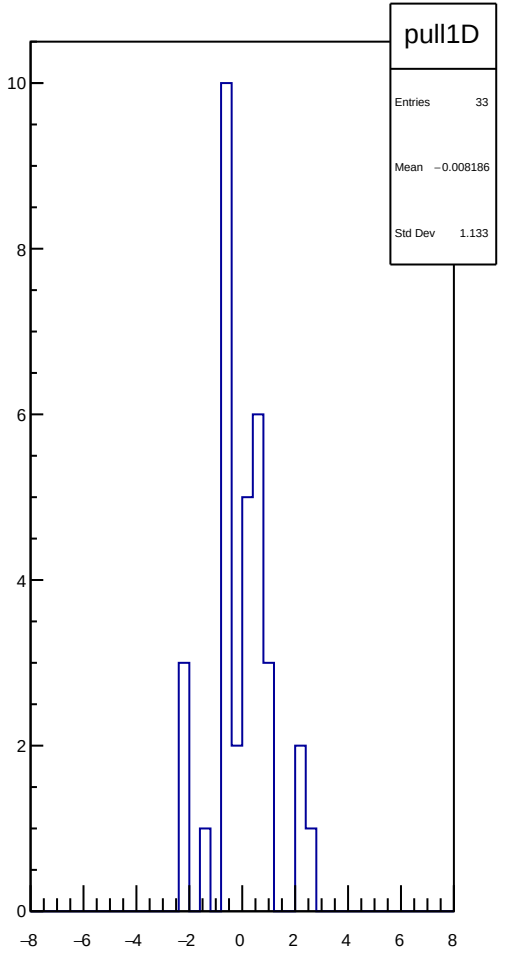
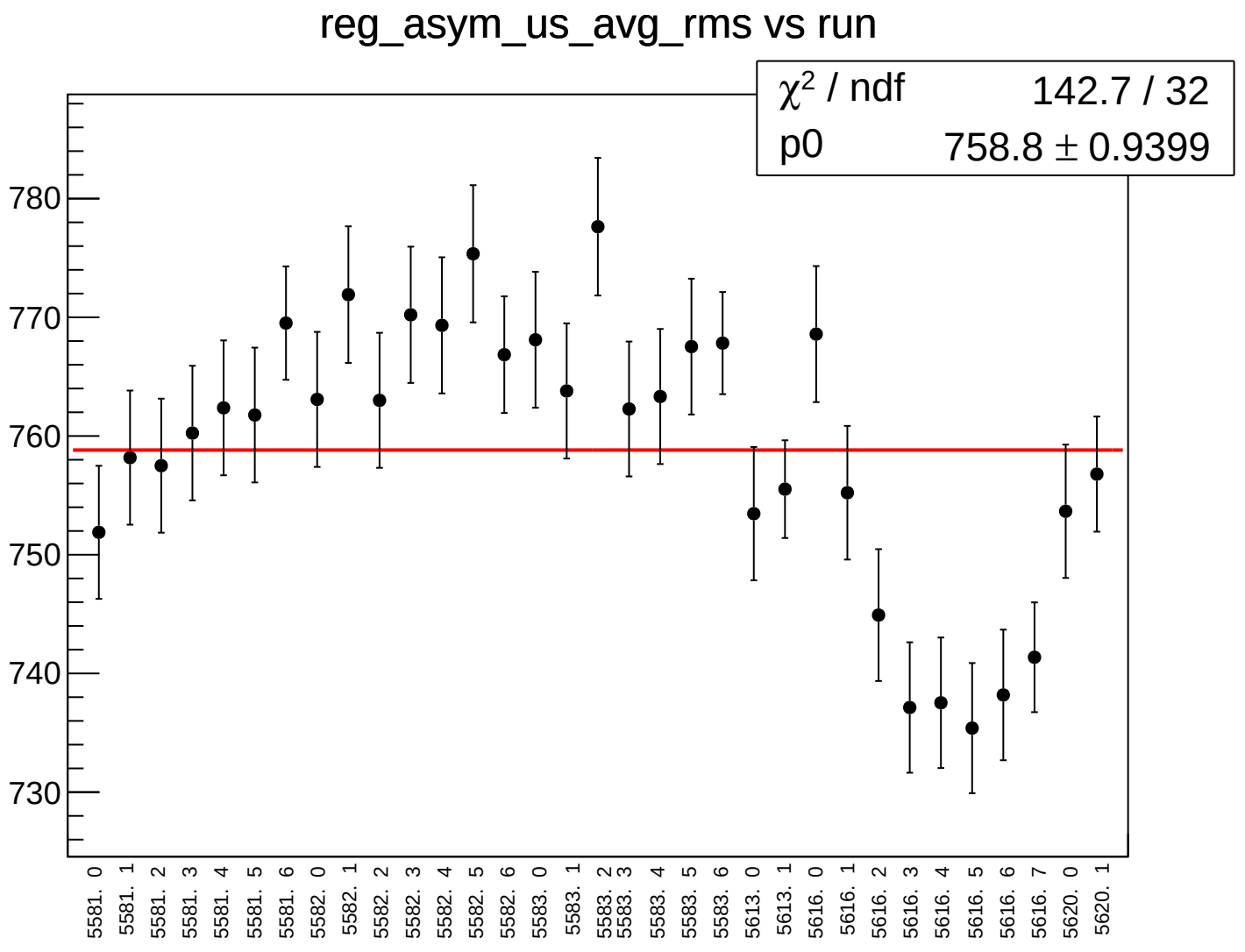
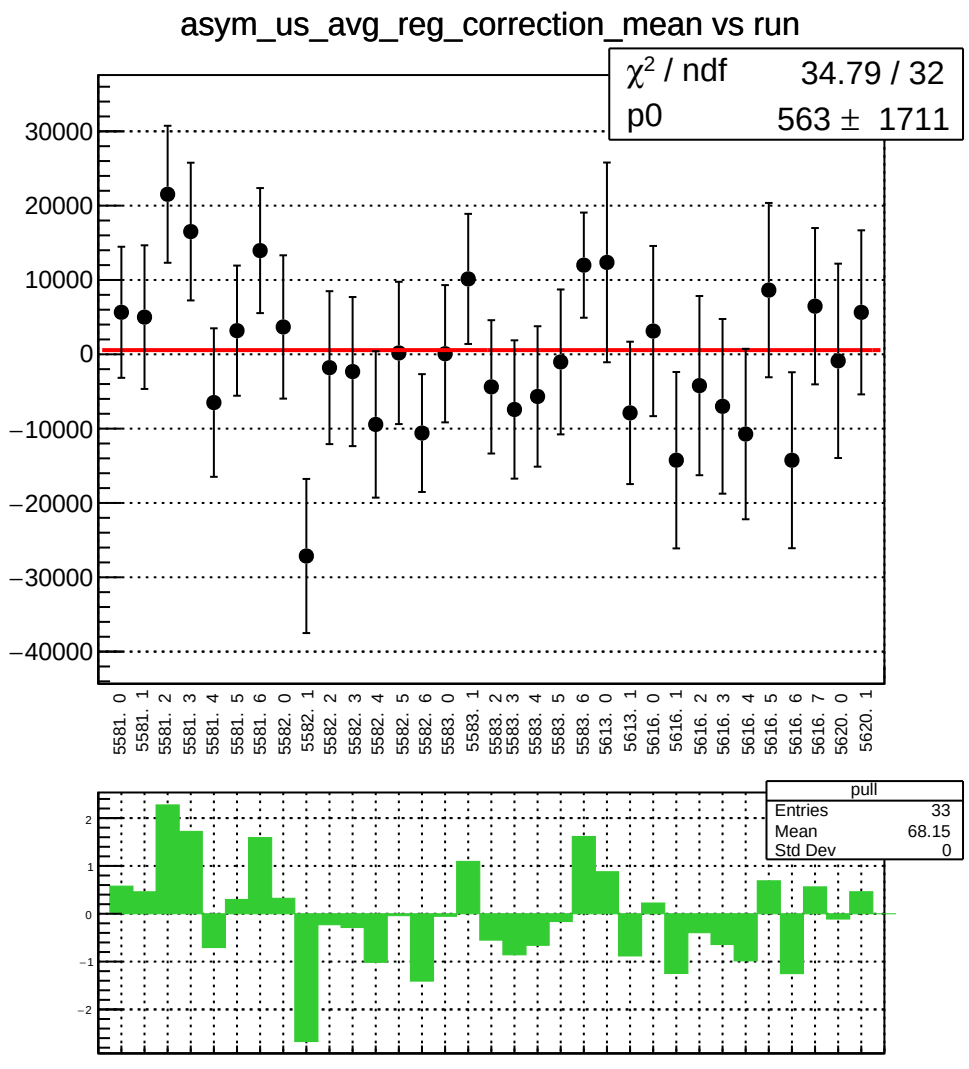
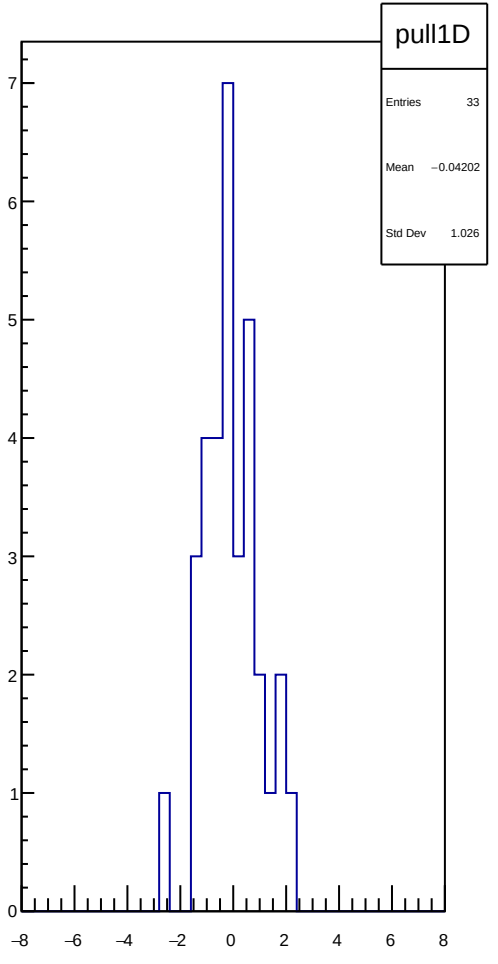
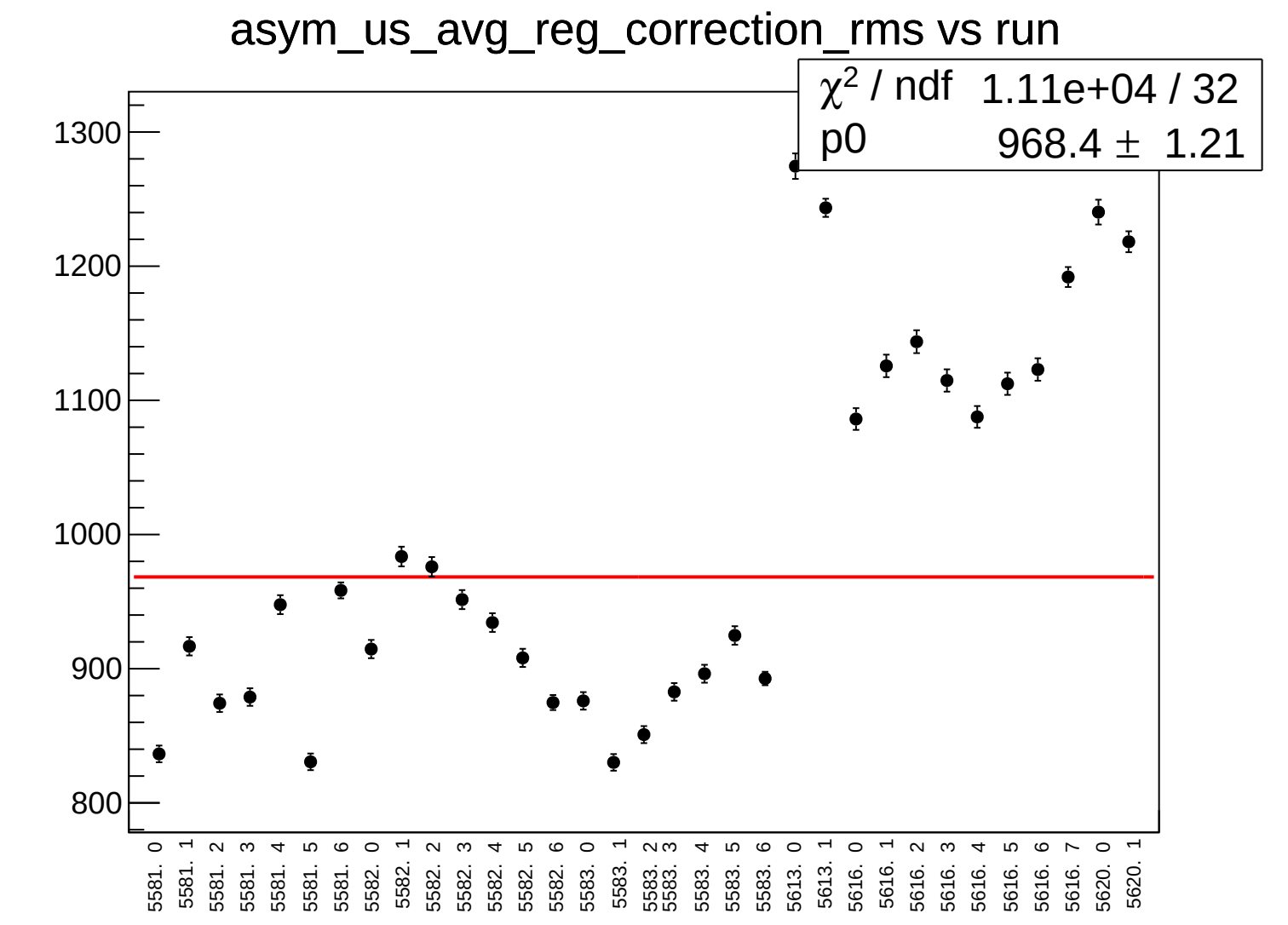

reg_asym_us_avg_mean vs run
χ² / ndf 42.34 / 32
p0 −2118 ± 1329
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 359.3
Std Dev 0
2
1
0
−1
−2

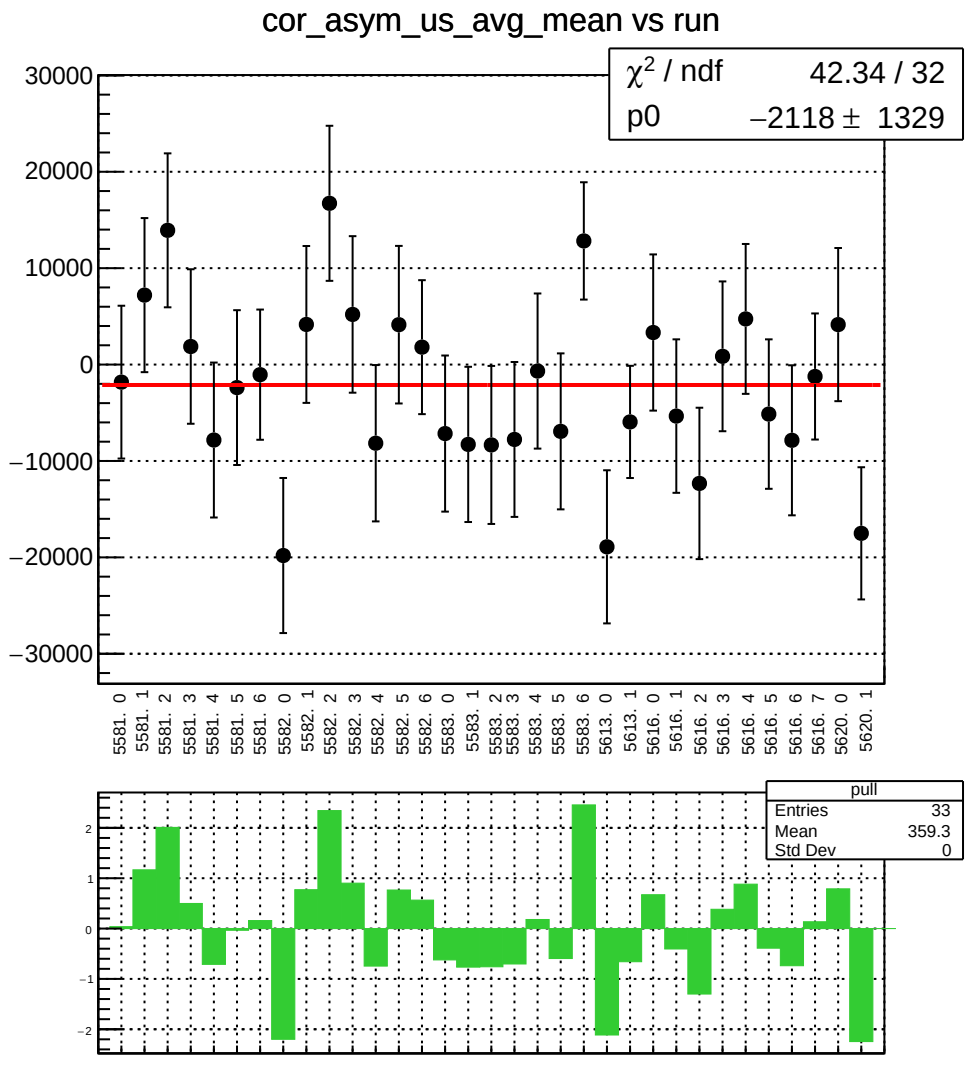

pull1D
Entries 33
Mean −0.008186
Std Dev 1.133
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

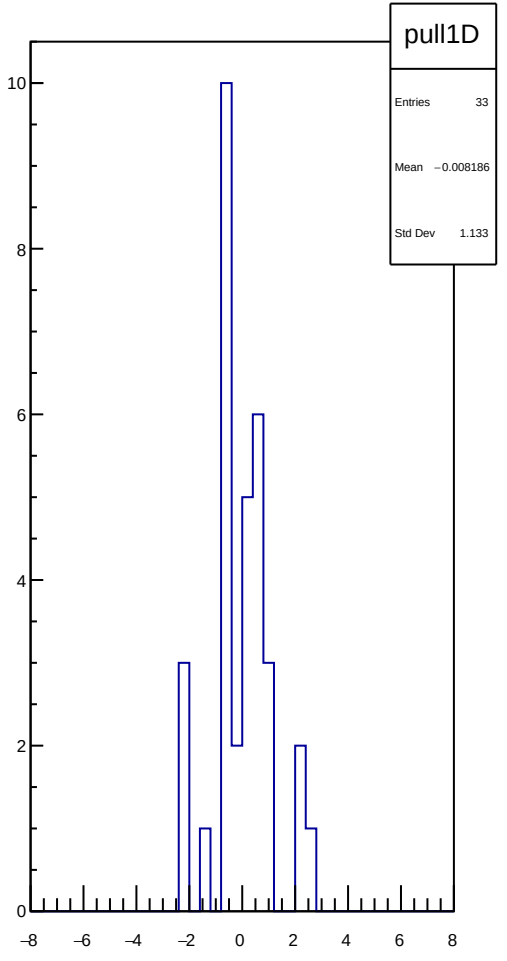

reg_asym_us_avg_rms vs run
χ² / ndf 142.7 / 32
p0 758.8 ± 0.9399
780
770
760
750
740
730
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

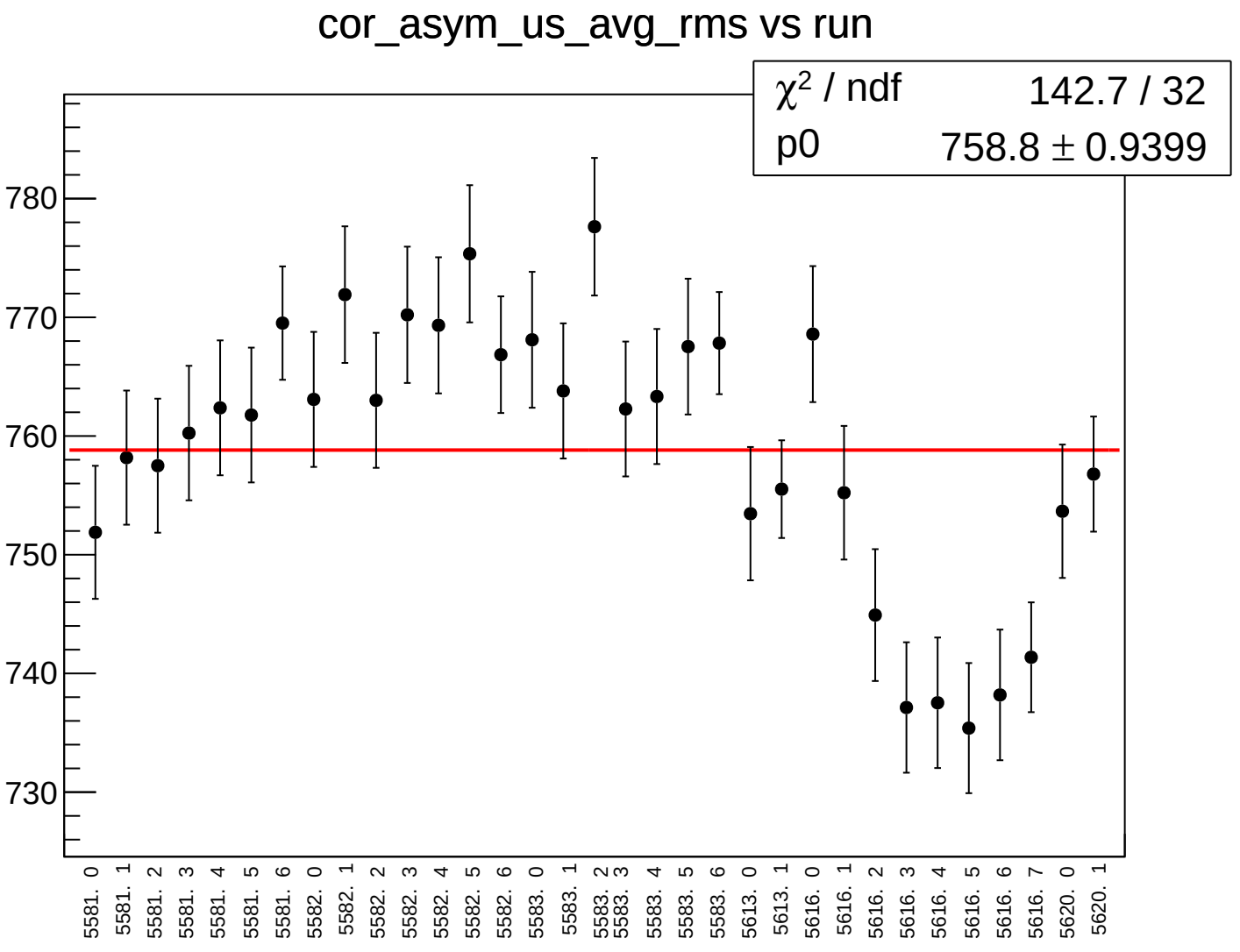

asym_us_avg_reg_correction_mean vs run
χ² / ndf 34.79 / 32
p0 563 ± 1711
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 68.15
Std Dev 0
2
1
0
−1
−2

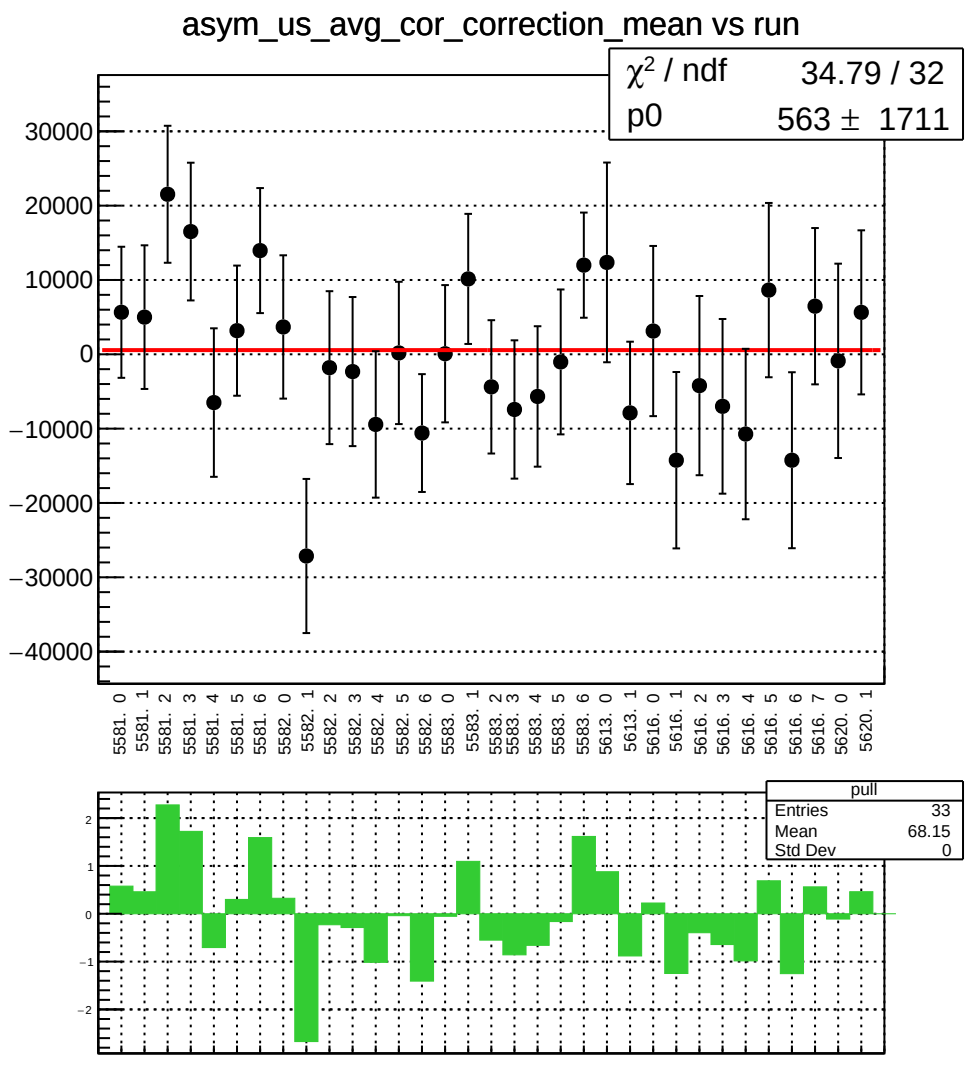

pull1D
Entries 33
Mean −0.04202
Std Dev 1.026
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

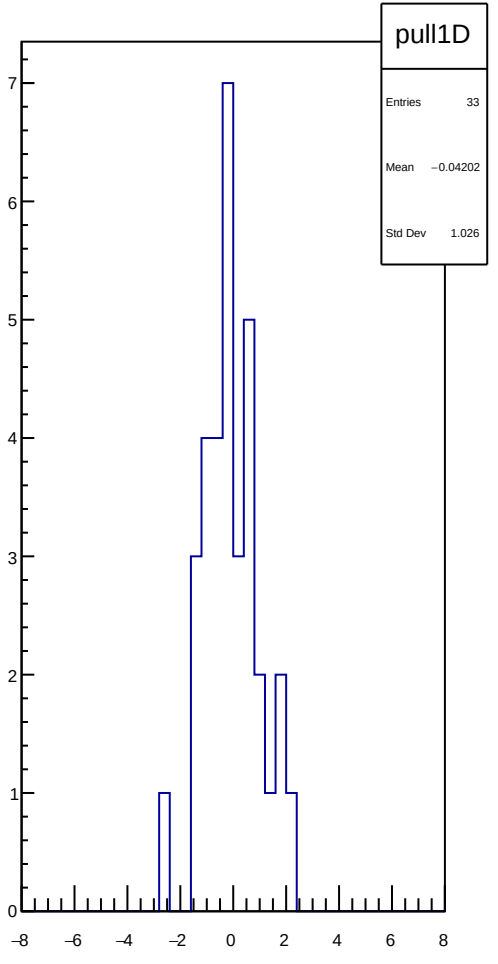

asym_us_avg_reg_correction_rms vs run
χ² / ndf 1.11e+04 / 32
p0 968.4 ± 1.21
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

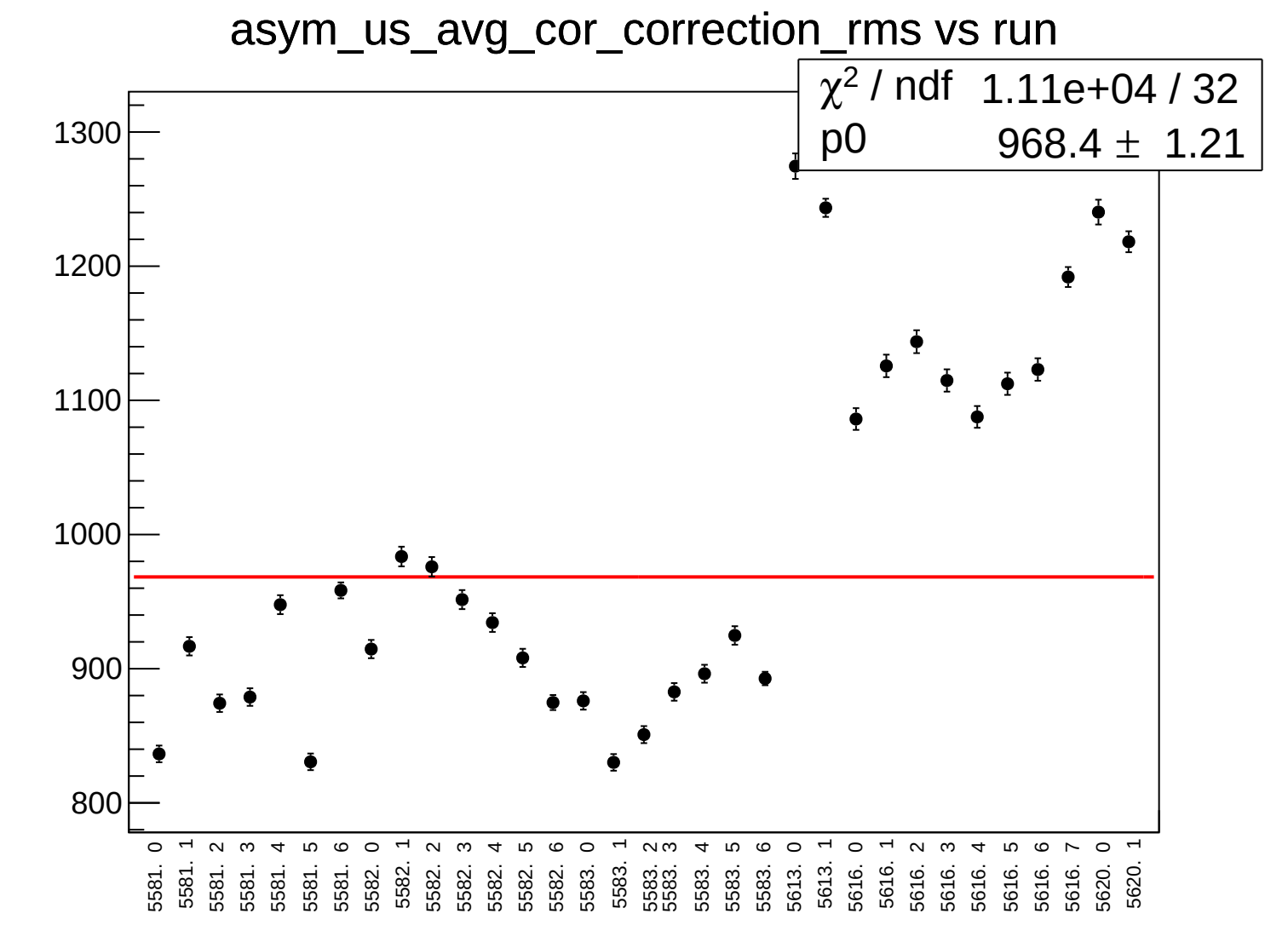

cor_asym_us_avg_mean vs run
χ² / ndf 42.34 / 32
p0 −2118 ± 1329
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 359.3
Std Dev 0
2
1
0
−1
−2

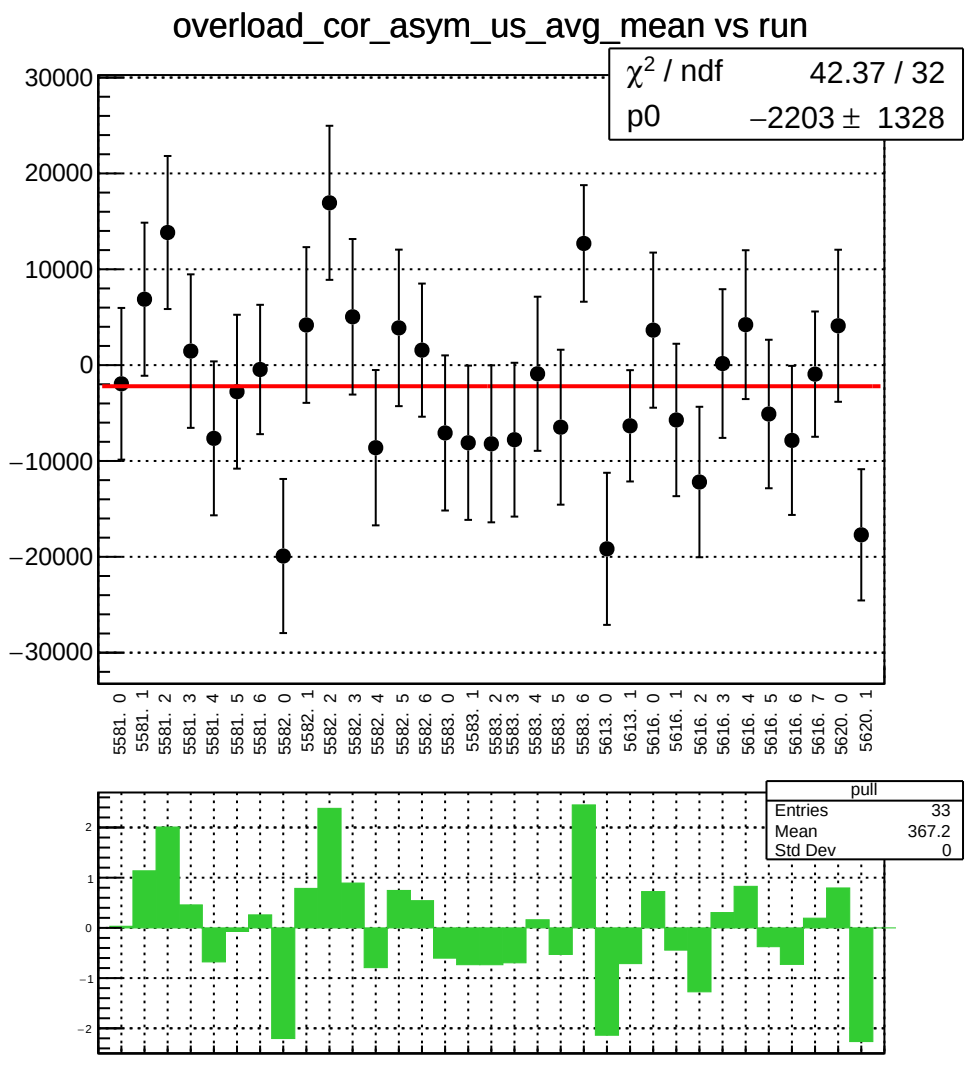

pull1D
Entries 33
Mean −0.008186
Std Dev 1.133
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

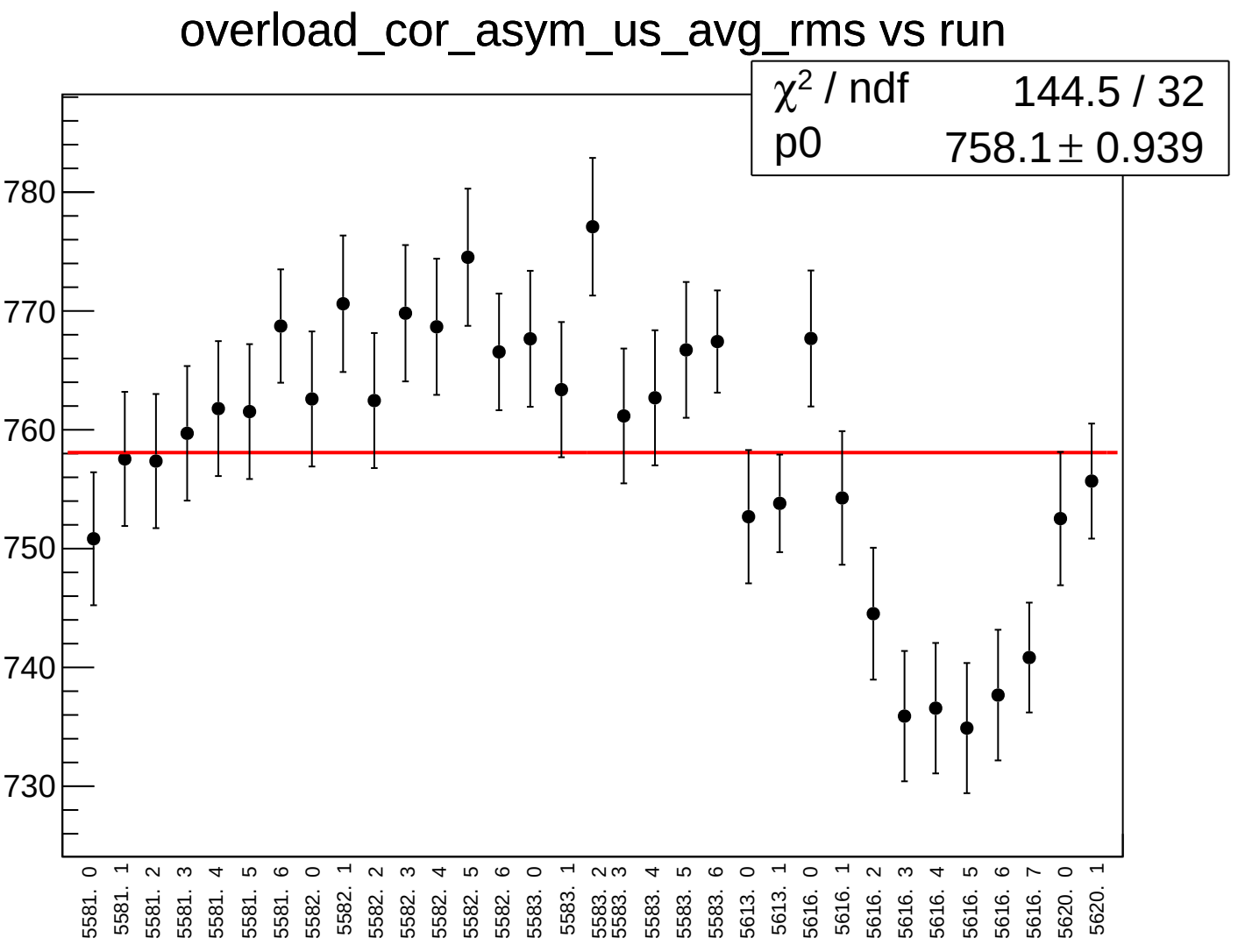

cor_asym_us_avg_rms vs run
χ² / ndf 142.7 / 32
p0 758.8 ± 0.9399
780
770
760
750
740
730
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

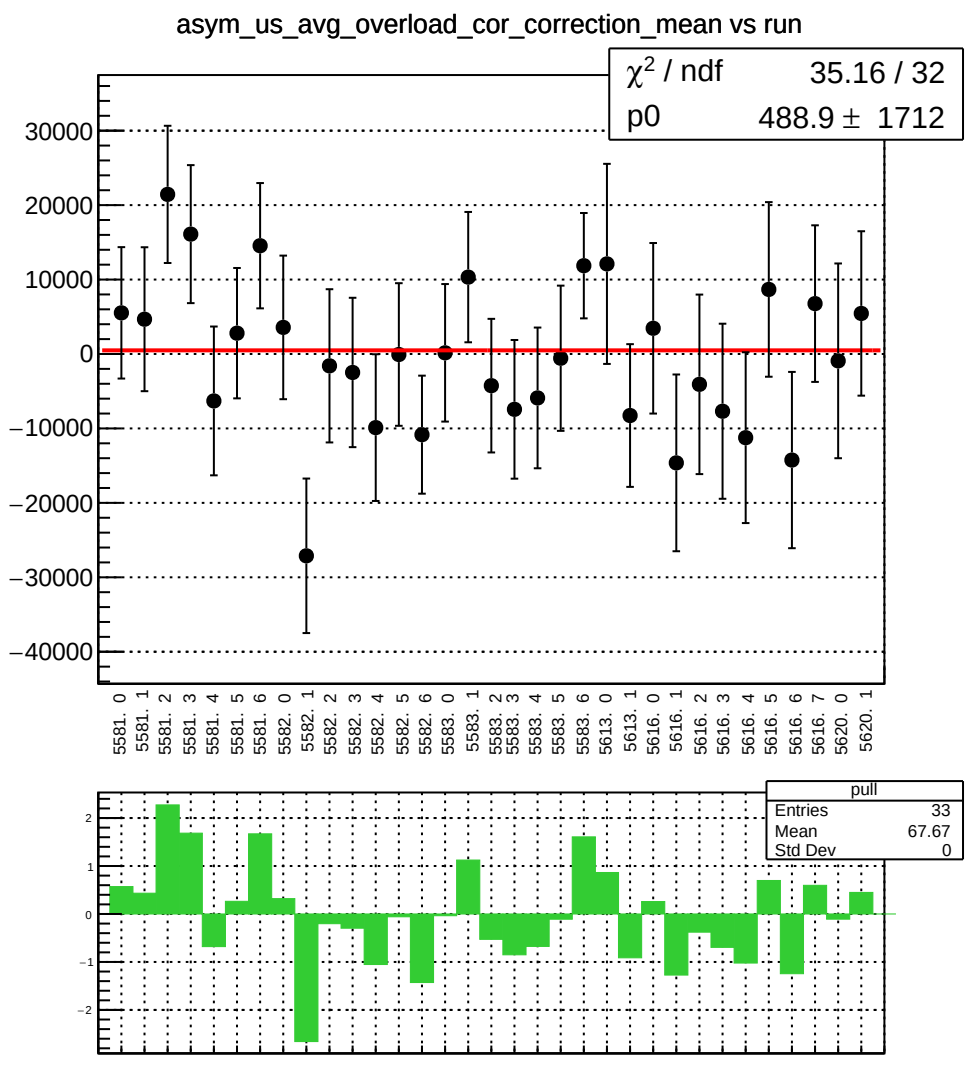

asym_us_avg_cor_correction_mean vs run
χ² / ndf 34.79 / 32
p0 563 ± 1711
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 68.15
Std Dev 0
2
1
0
−1
−2

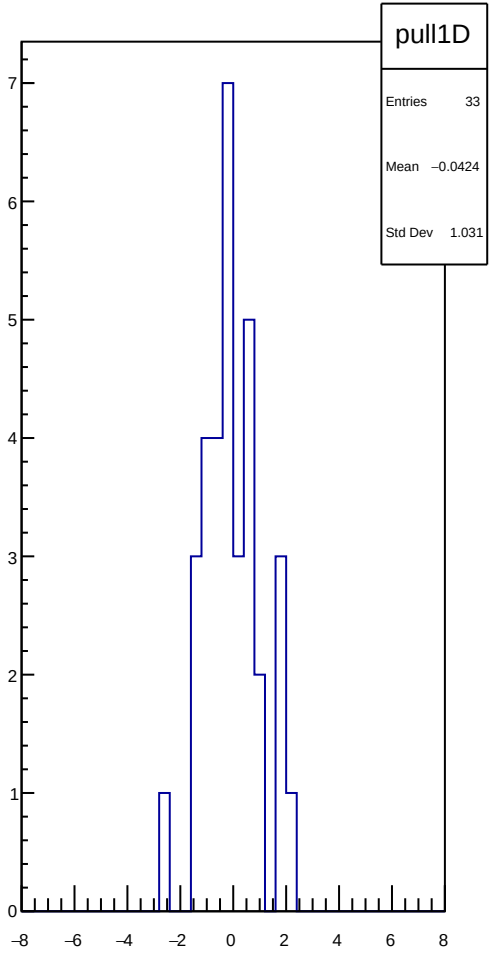

pull1D
Entries 33
Mean −0.04202
Std Dev 1.026
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

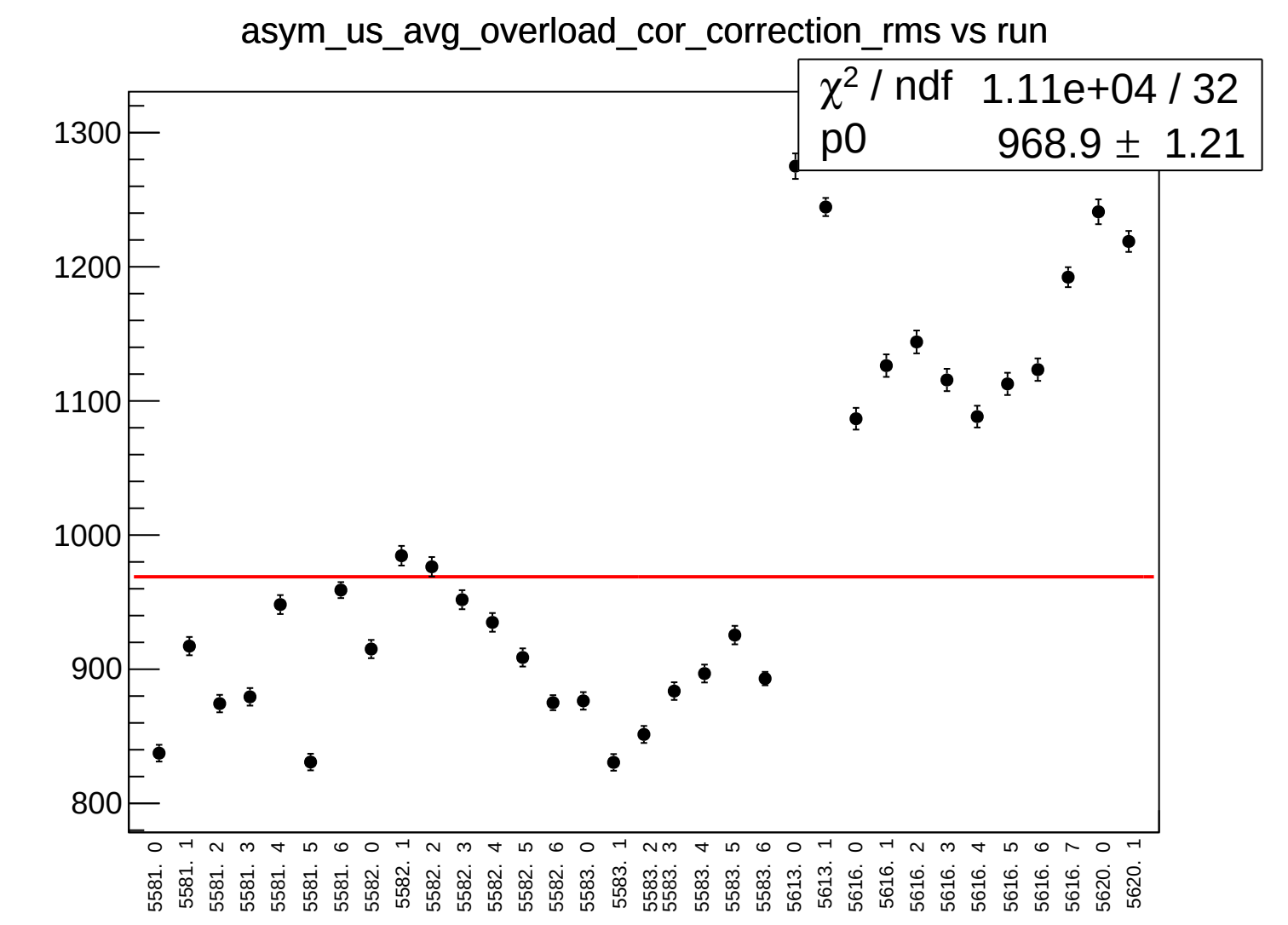

asym_us_avg_cor_correction_rms vs run
χ² / ndf 1.11e+04 / 32
p0 968.4 ± 1.21
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

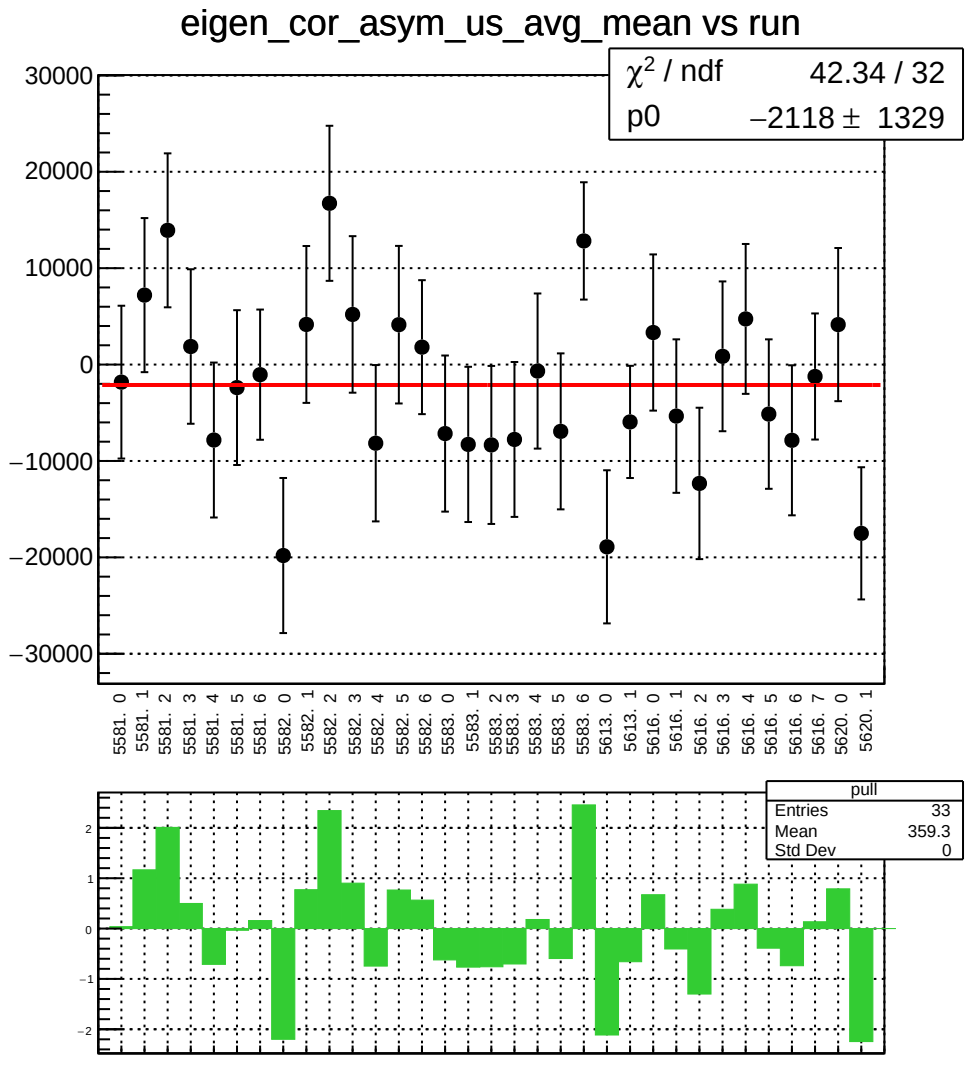

overload_cor_asym_us_avg_mean vs run
χ² / ndf 42.37 / 32
p0 −2203 ± 1328
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 367.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.008032
Std Dev 1.133
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

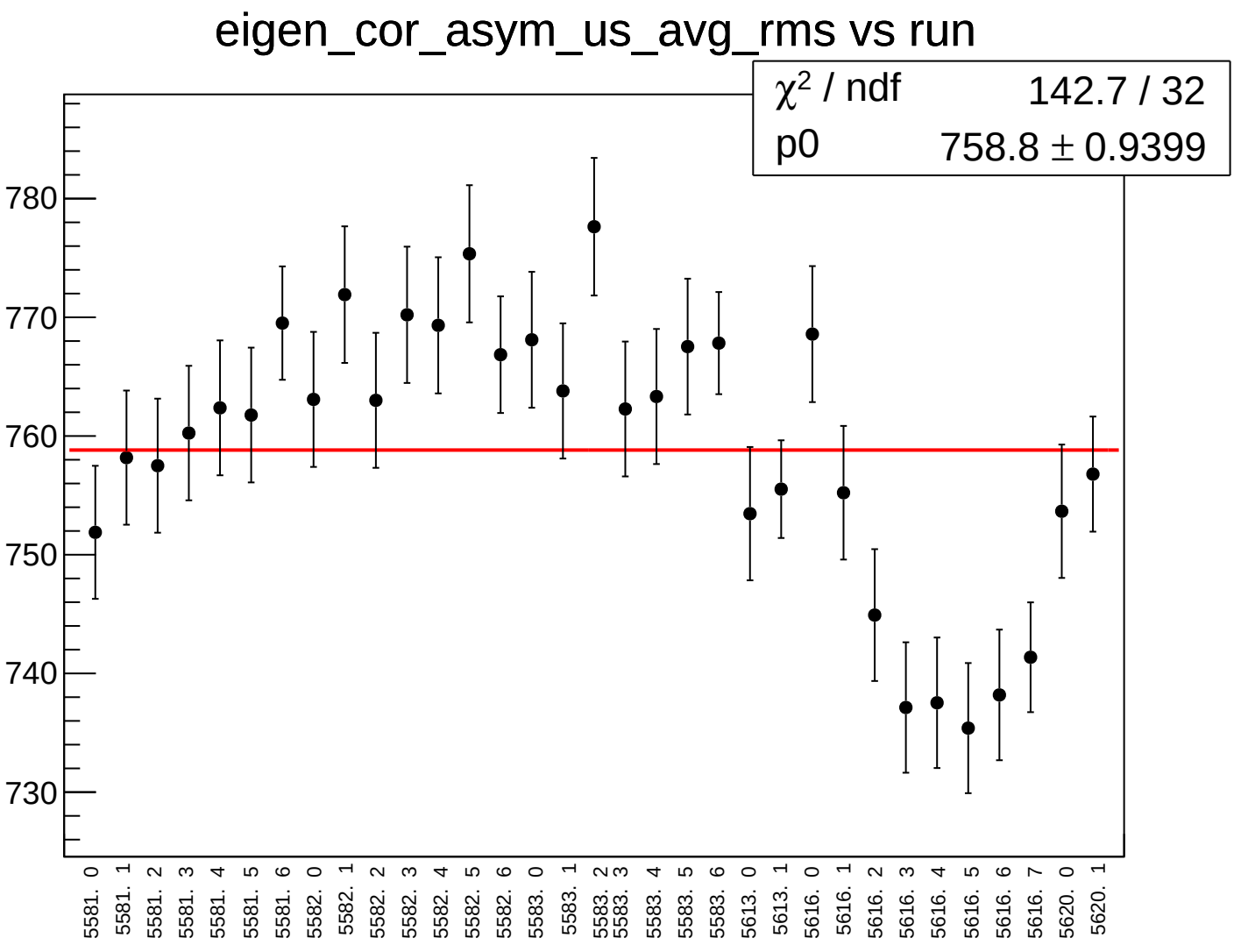

overload_cor_asym_us_avg_rms vs run
χ² / ndf 144.5 / 32
p0 758.1 ± 0.939
780
770
760
750
740
730
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

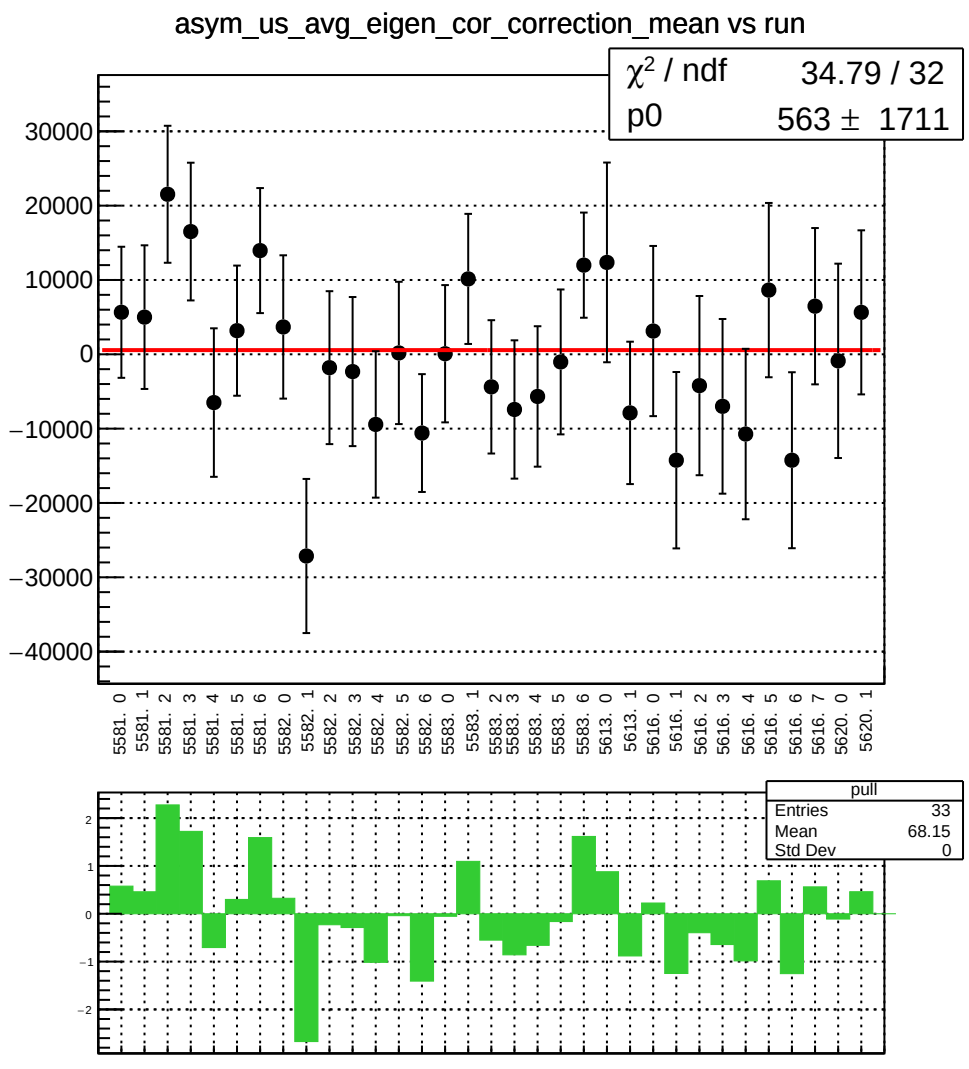

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 35.16 / 32
p0 488.9 ± 1712
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 67.67
Std Dev 0
2
1
0
−1
−2

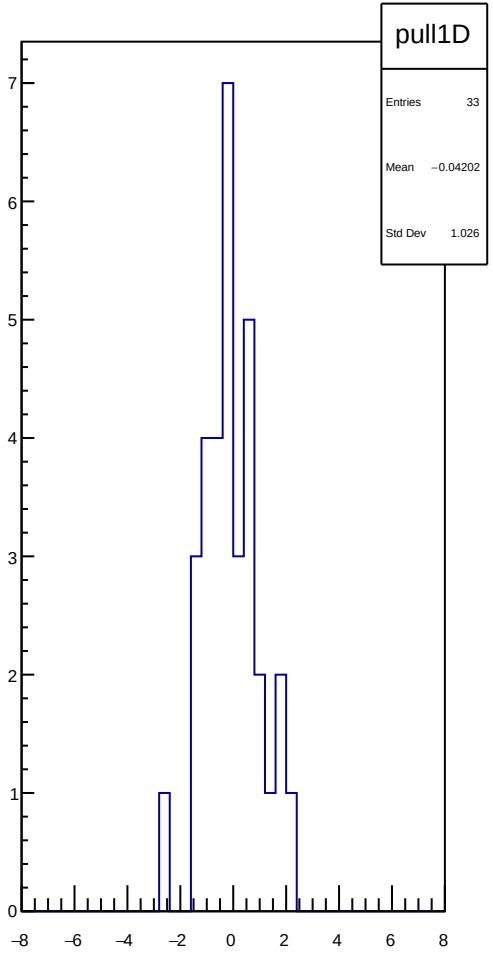

pull1D
Entries 33
Mean −0.0424
Std Dev 1.031
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

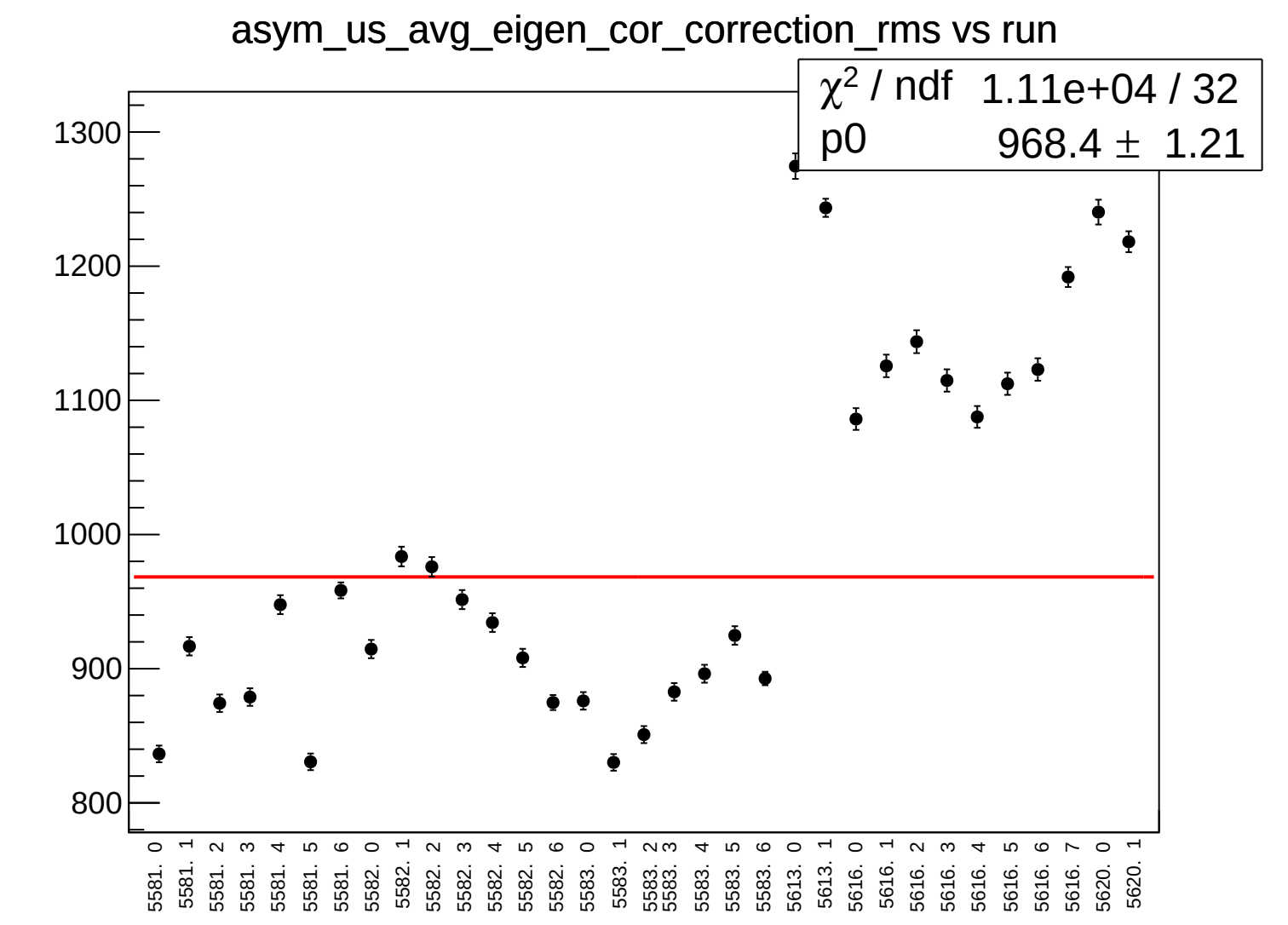

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1.11e+04 / 32
p0 968.9 ± 1.21
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

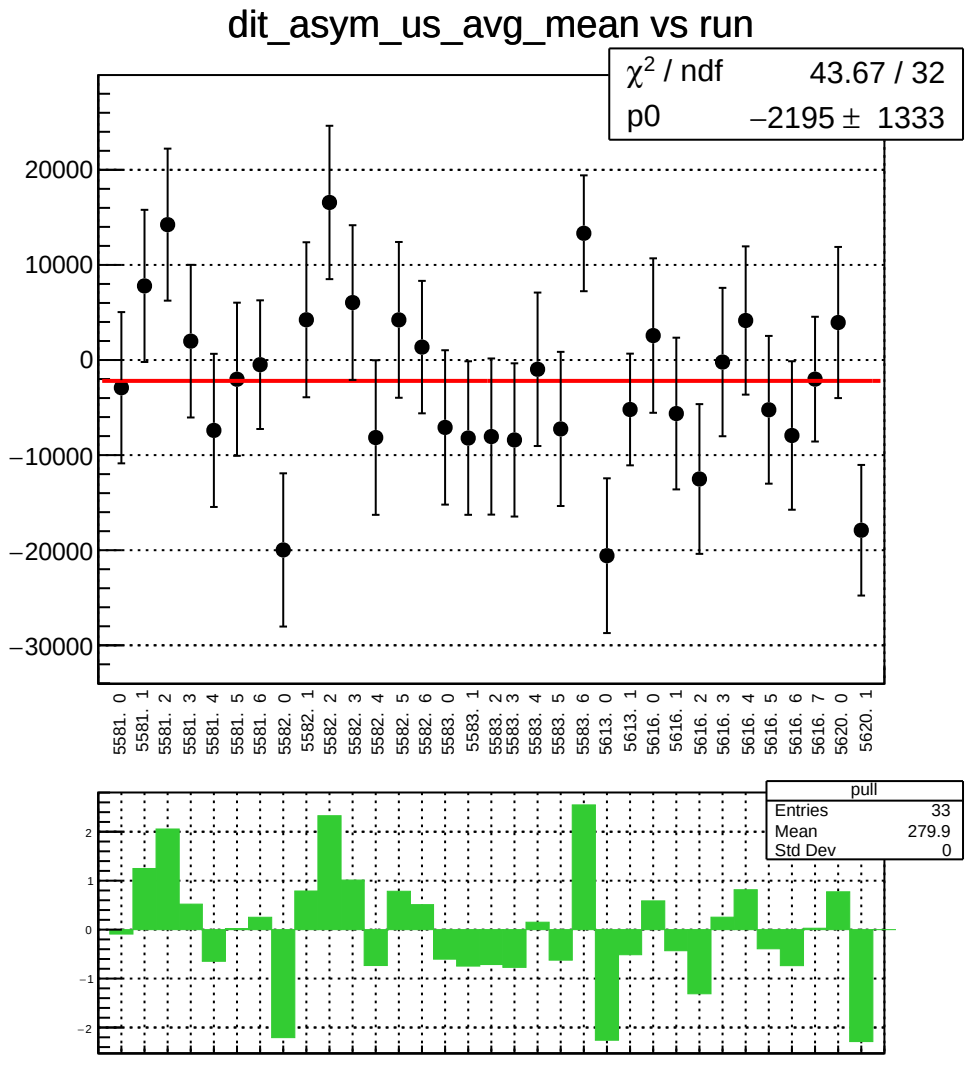

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 42.34 / 32
p0 −2118 ± 1329
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 359.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.008186
Std Dev 1.133
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

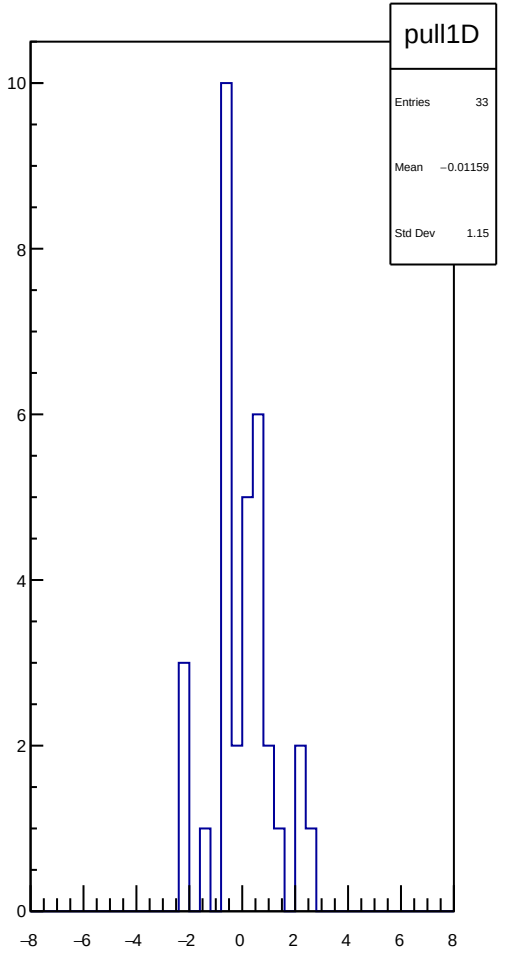

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 142.7 / 32
p0 758.8 ± 0.9399
780
770
760
750
740
730
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

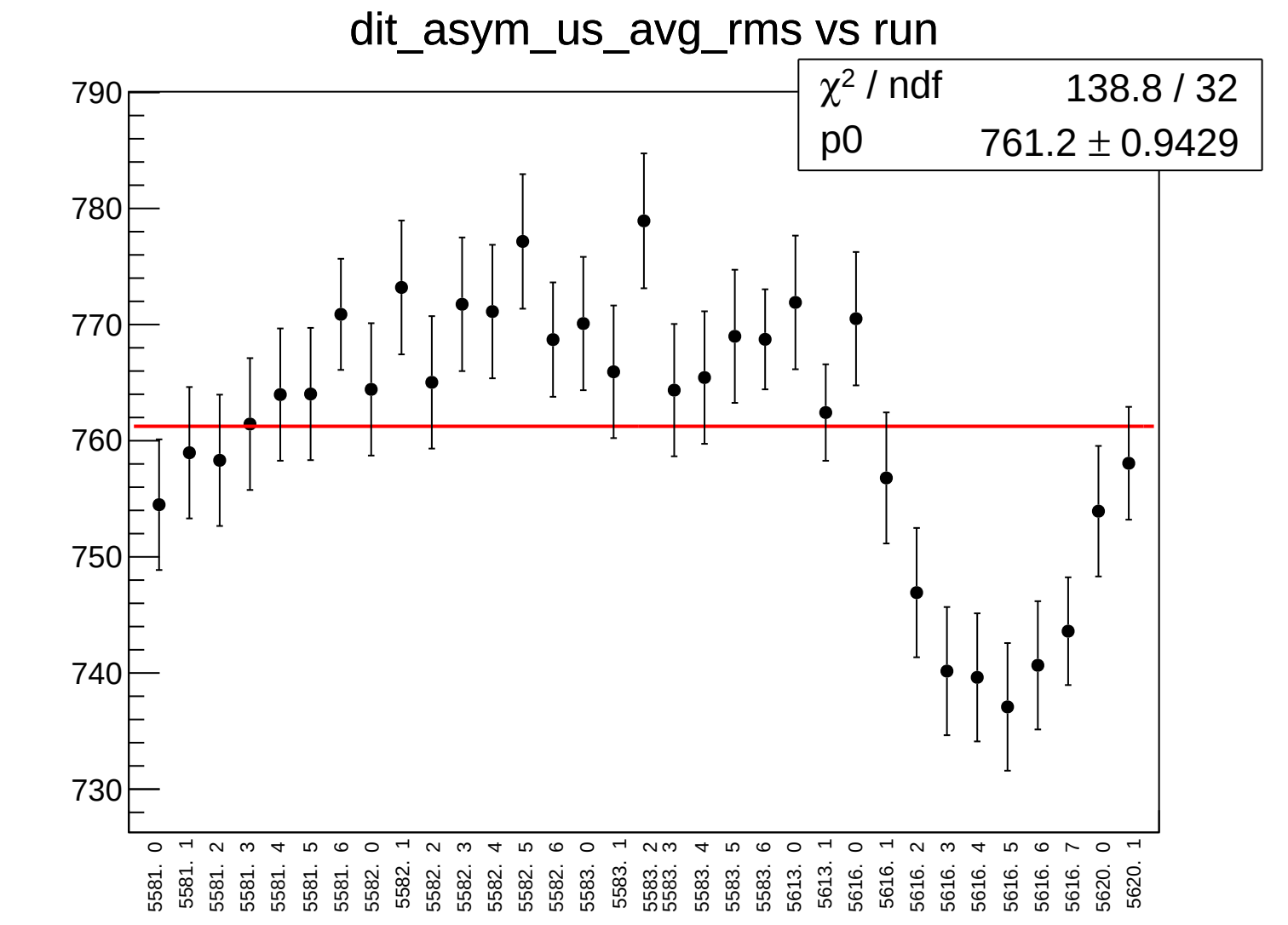

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 34.79 / 32
p0 563 ± 1711
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 68.15
Std Dev 0
2
1
0
−1
−2

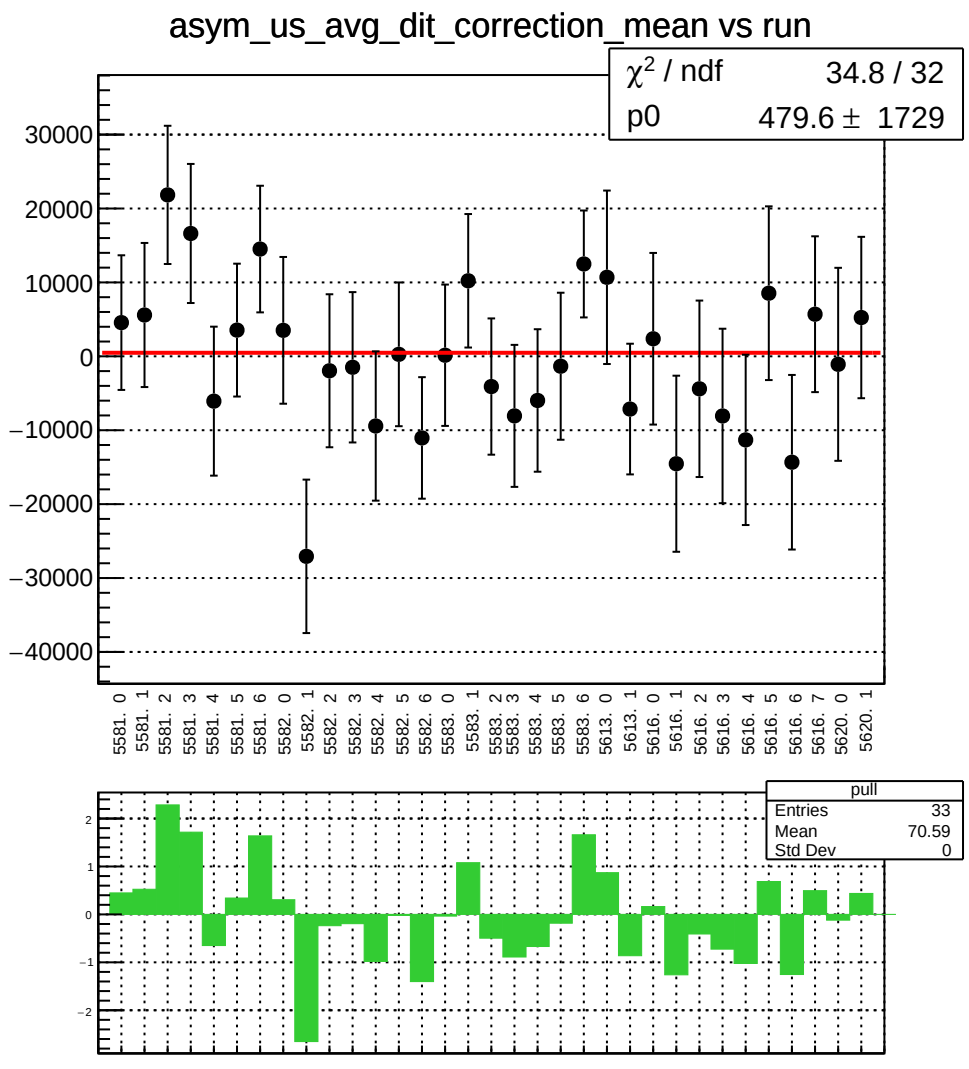

pull1D
Entries 33
Mean −0.04202
Std Dev 1.026
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

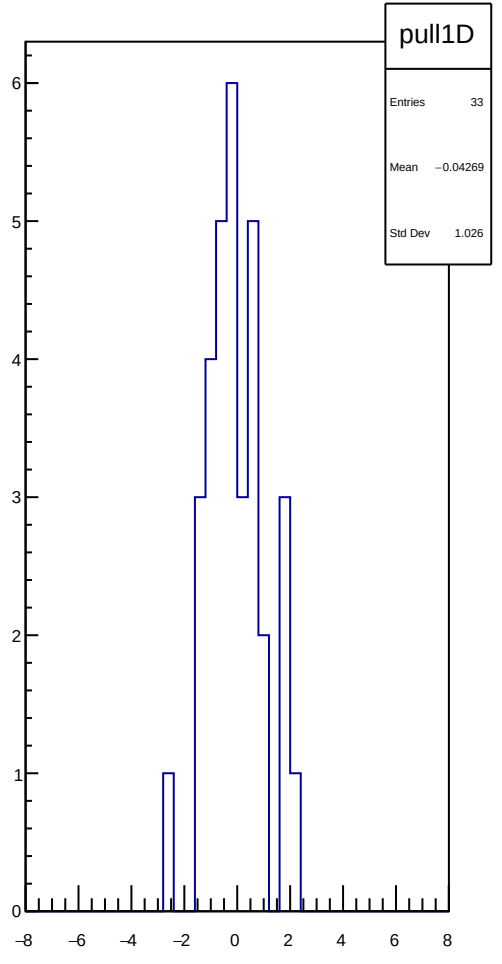

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.11e+04 / 32
p0 968.4 ± 1.21
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

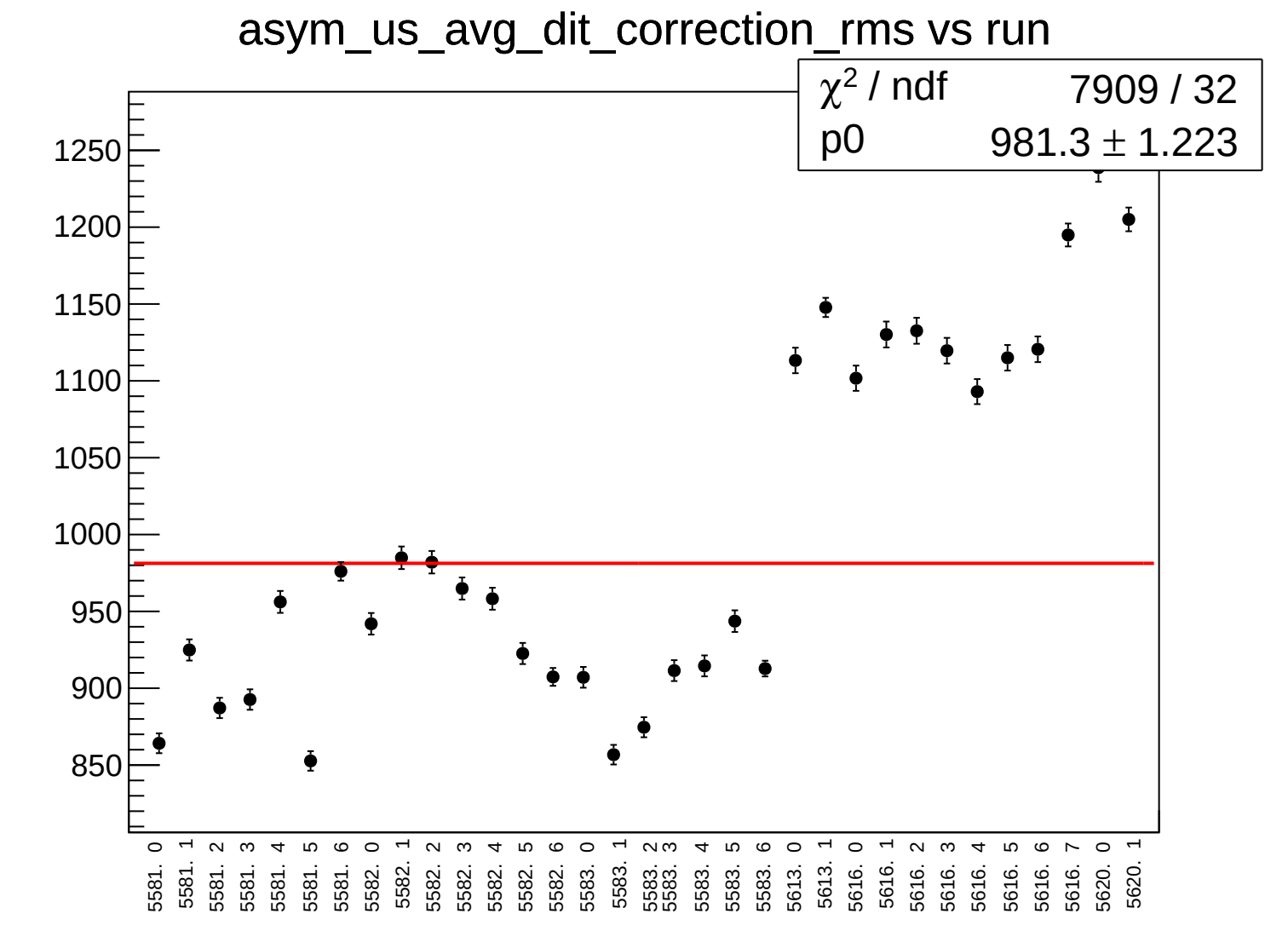

dit_asym_us_avg_mean vs run
χ² / ndf 43.67 / 32
p0 −2195 ± 1333
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 279.9
Std Dev 0
2
1
0
−1
−2

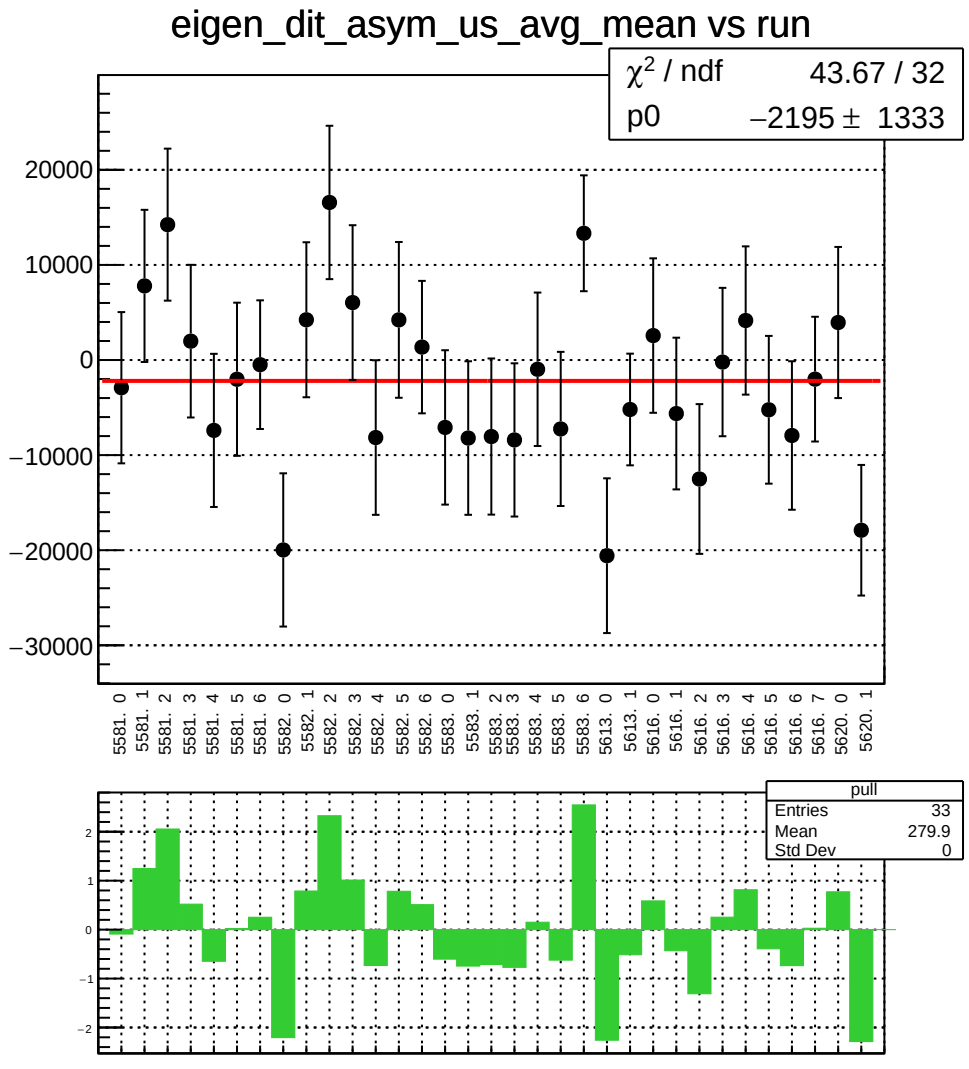

pull1D
Entries 33
Mean −0.01159
Std Dev 1.15
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

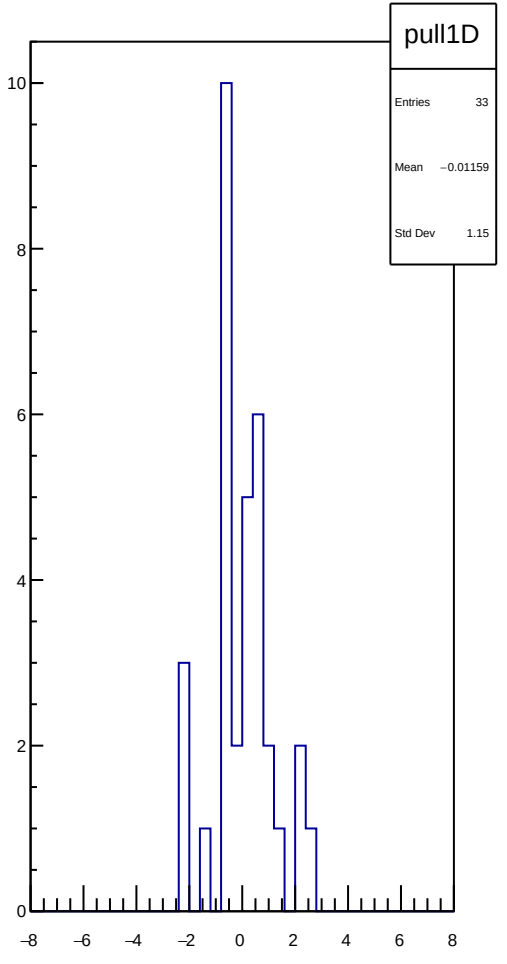

dit_asym_us_avg_rms vs run
χ² / ndf 138.8 / 32
p0 761.2 ± 0.9429
790
780
770
760
750
740
730
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

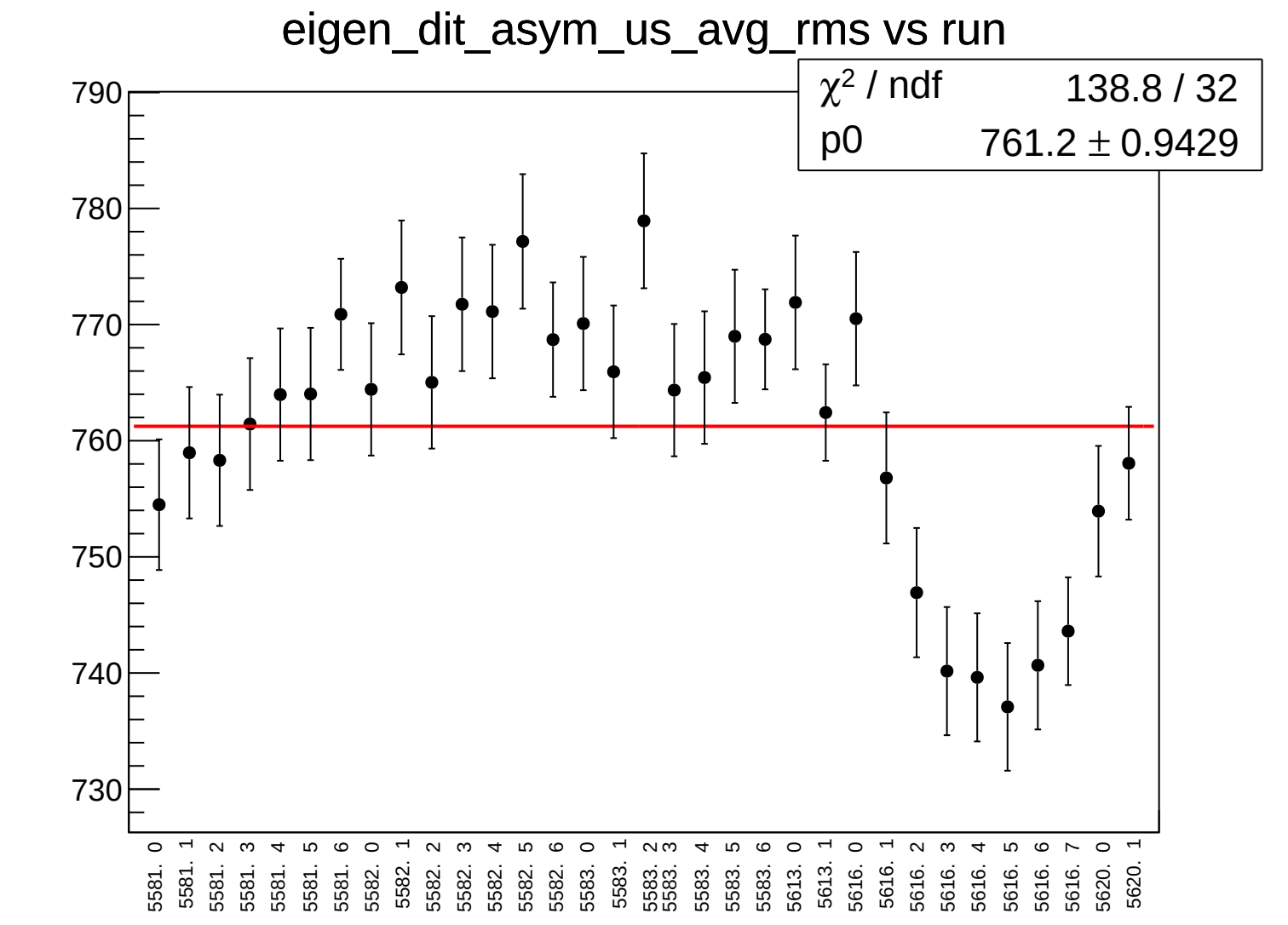

asym_us_avg_dit_correction_mean vs run
χ² / ndf 34.8 / 32
p0 479.6 ± 1729
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 70.59
Std Dev 0
2
1
0
−1
−2

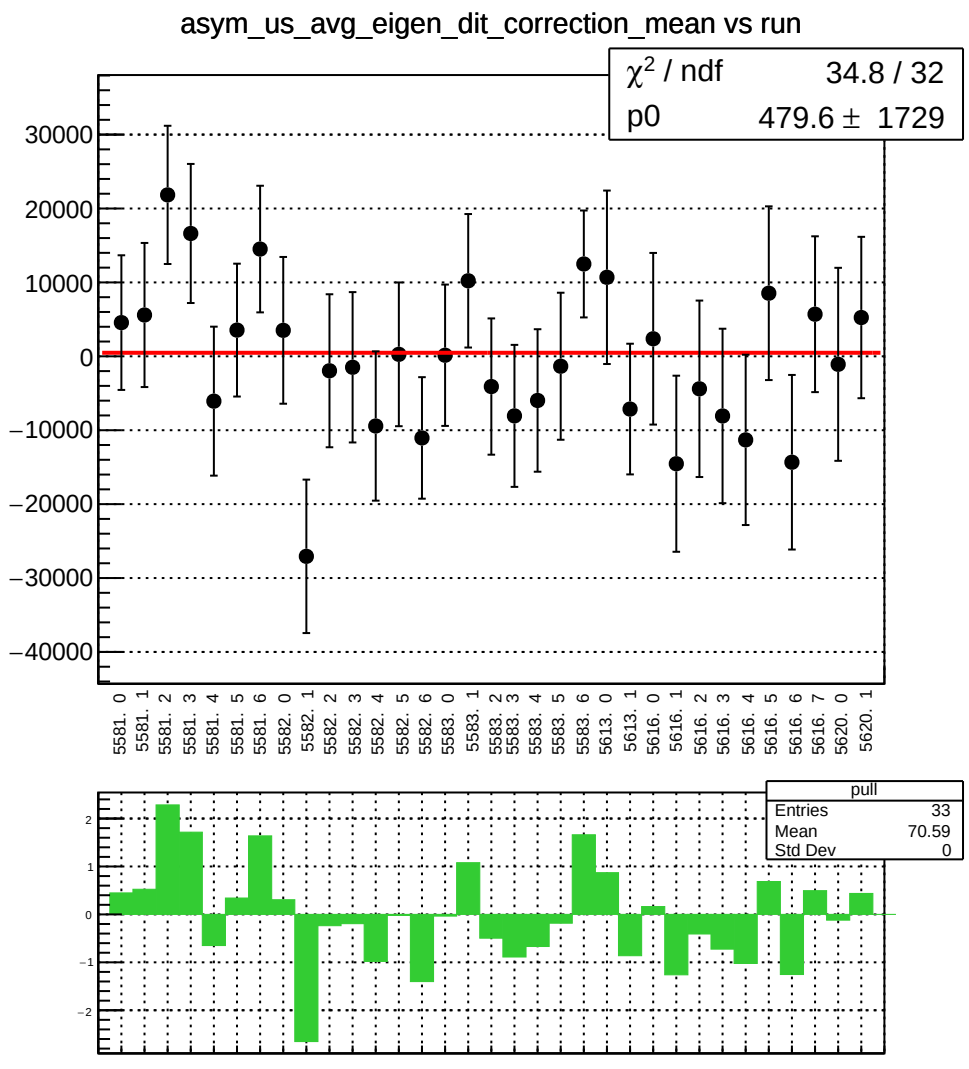

pull1D
Entries 33
Mean −0.04269
Std Dev 1.026
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

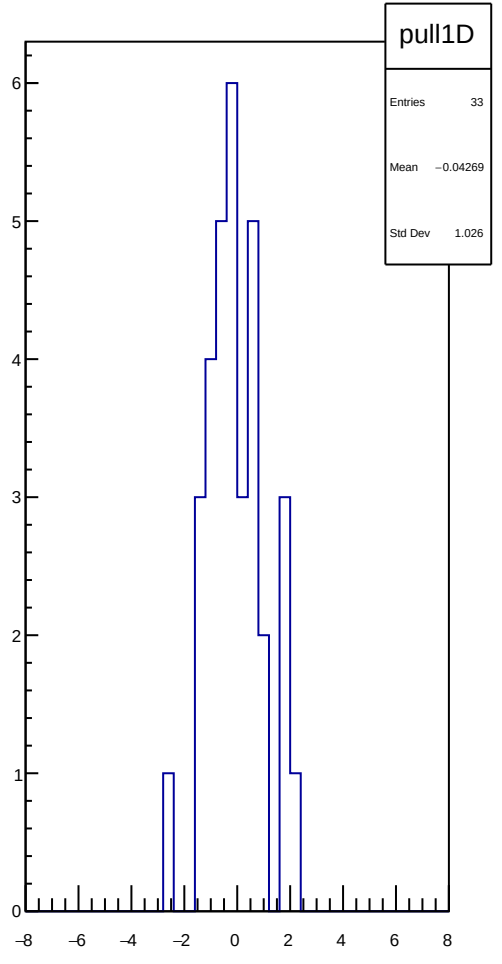

asym_us_avg_dit_correction_rms vs run
χ² / ndf 7909 / 32
p0 981.3 ± 1.223
1250
1200
1150
1100
1050
1000
950
900
850
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

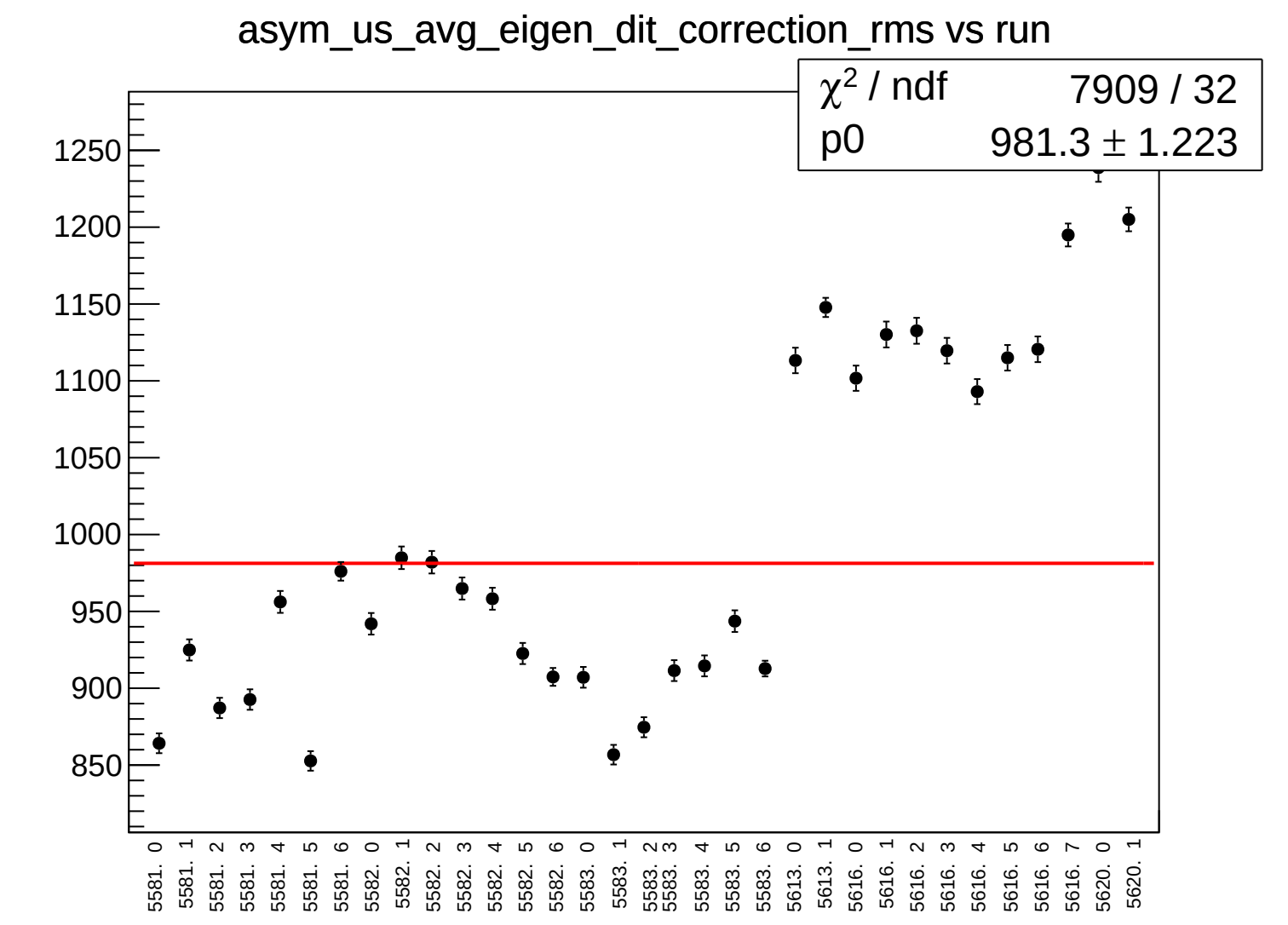

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 43.67 / 32
p0 −2195 ± 1333
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 279.9
Std Dev 0
2
1
0
−1
−2

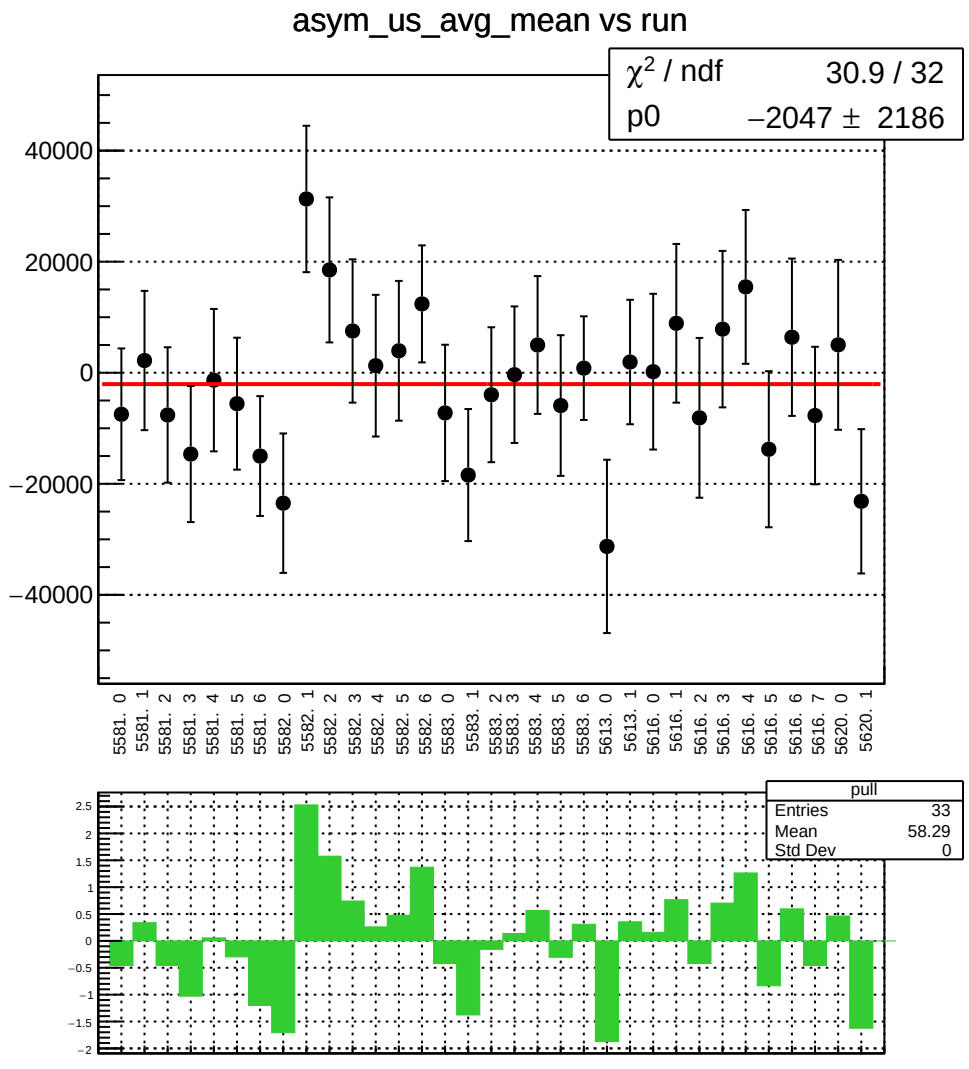

pull1D
Entries 33
Mean −0.01159
Std Dev 1.15
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

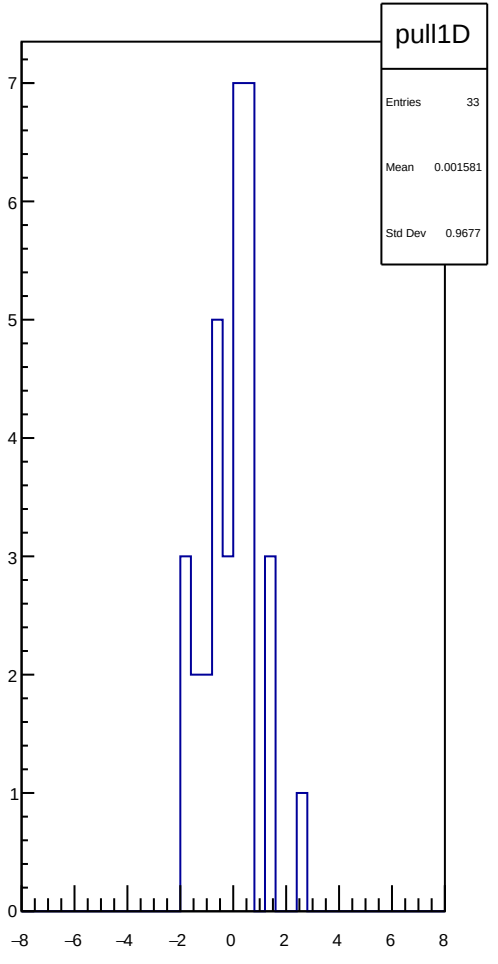

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 138.8 / 32
p0 761.2 ± 0.9429
790
780
770
760
750
740
730
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

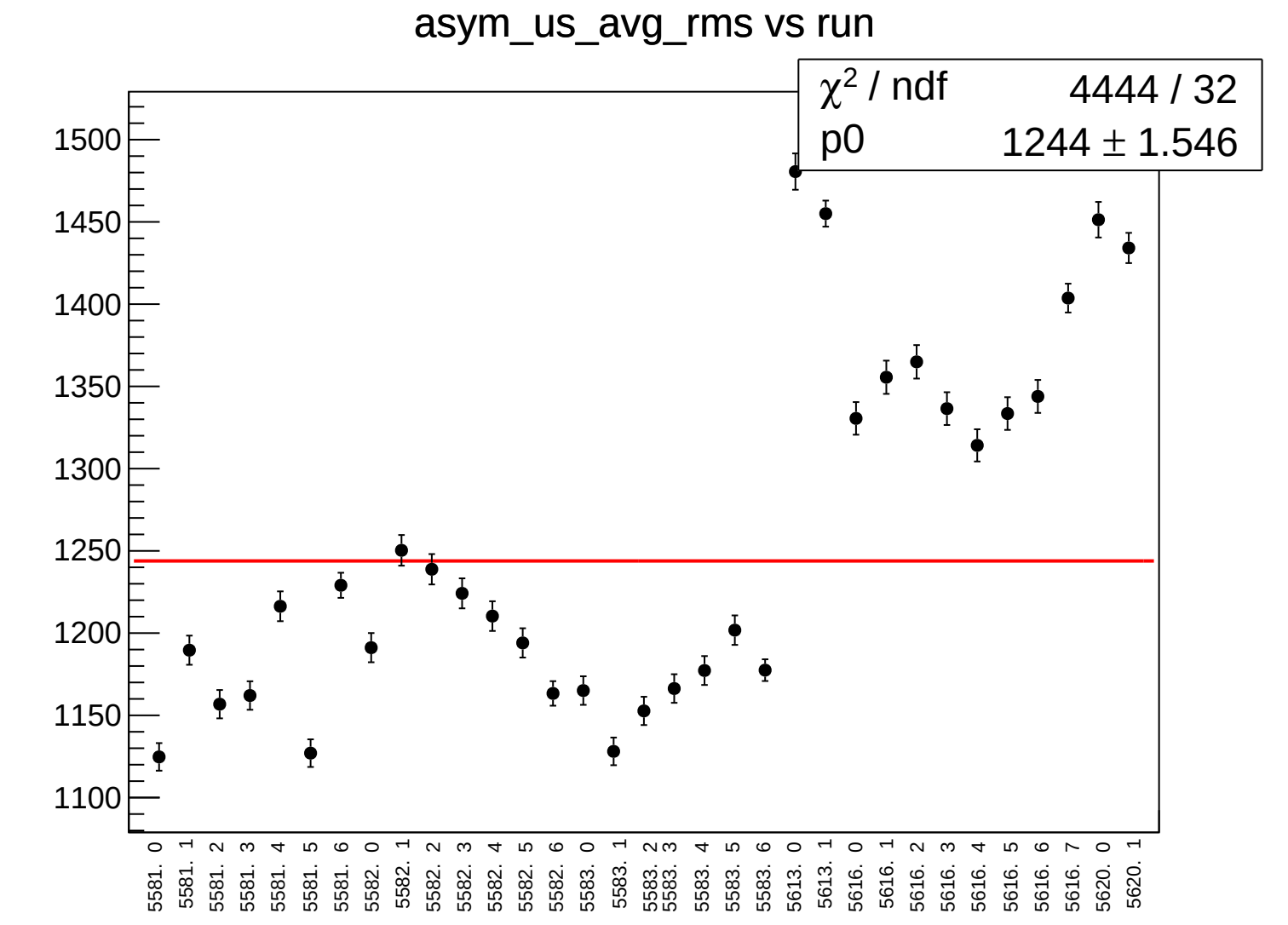

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 34.8 / 32
p0 479.6 ± 1729
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 70.59
Std Dev 0
2
1
0
−1
−2

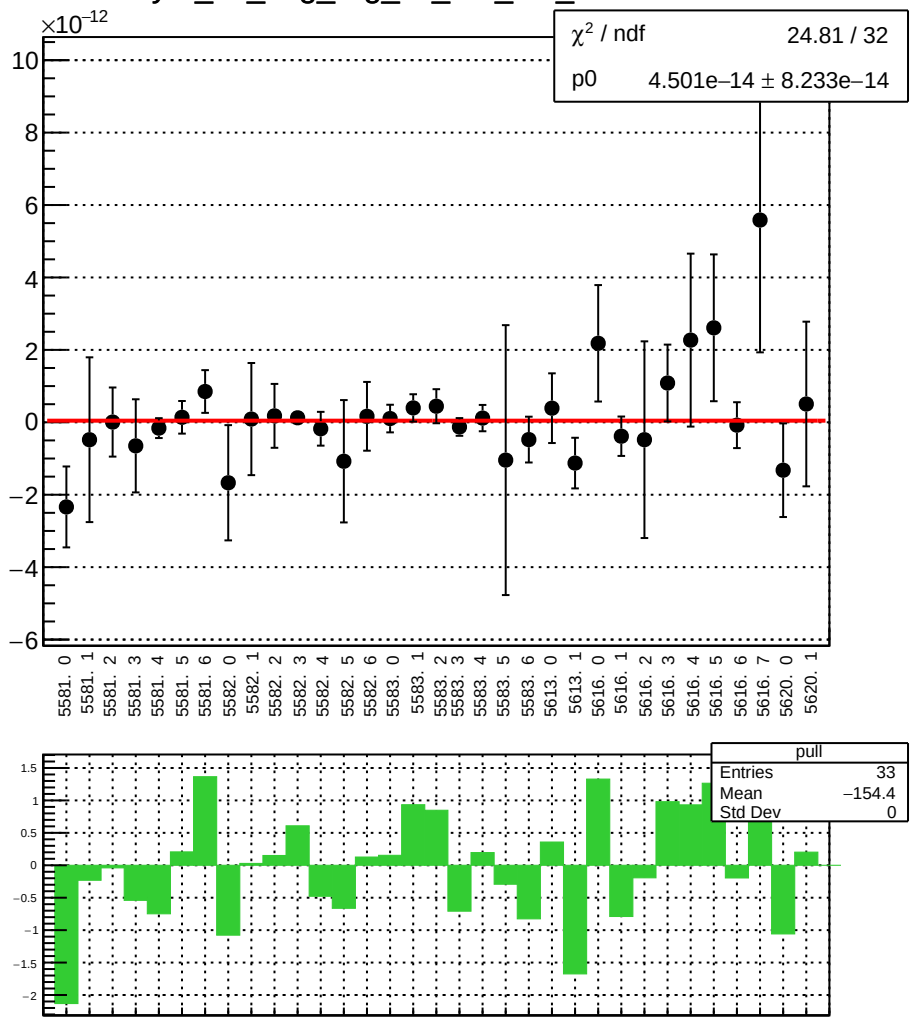

pull1D
Entries 33
Mean −0.04269
Std Dev 1.026
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

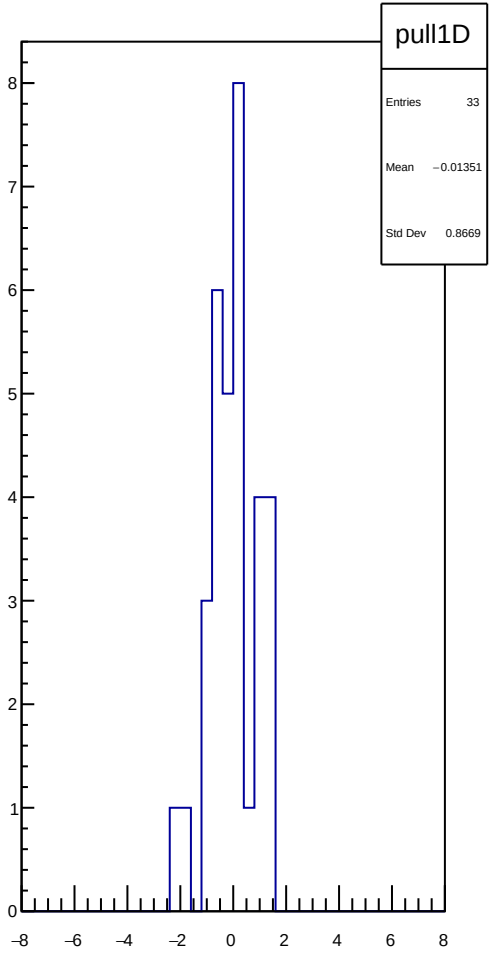

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 7909 / 32
p0 981.3 ± 1.223
1250
1200
1150
1100
1050
1000
950
900
850
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

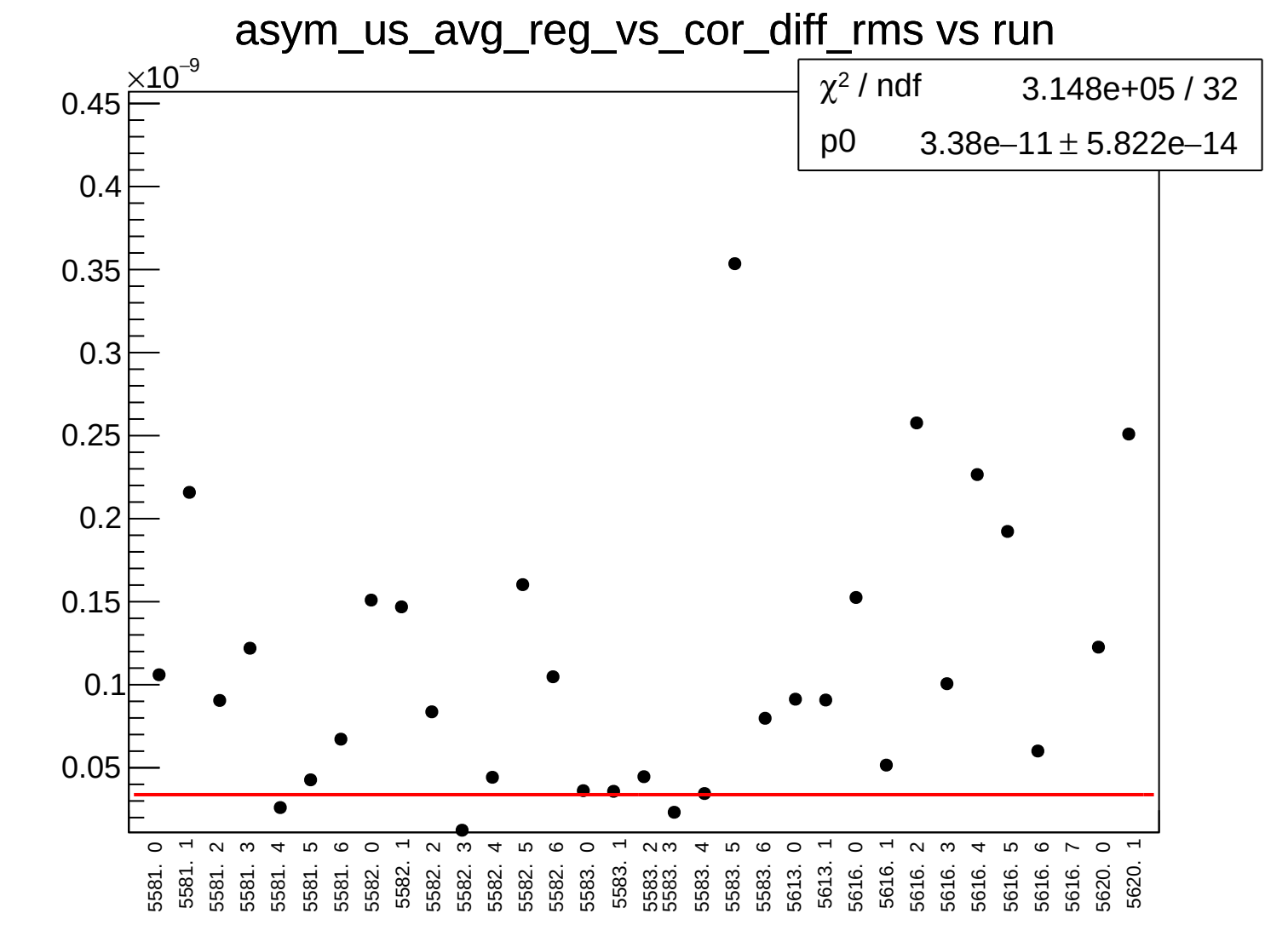

asym_us_avg_mean vs run
χ² / ndf 30.9 / 32
p0 −2047 ± 2186
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 58.29
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

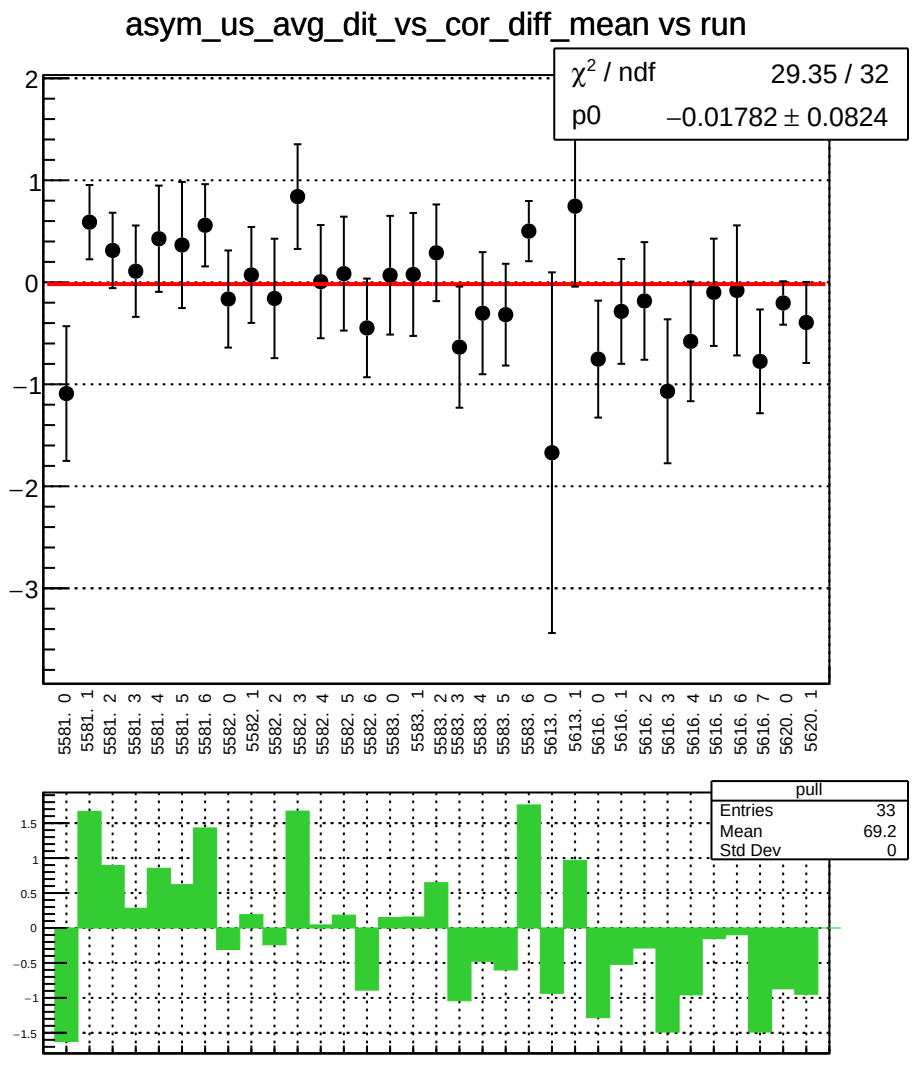

pull1D
Entries 33
Mean 0.001581
Std Dev 0.9677
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

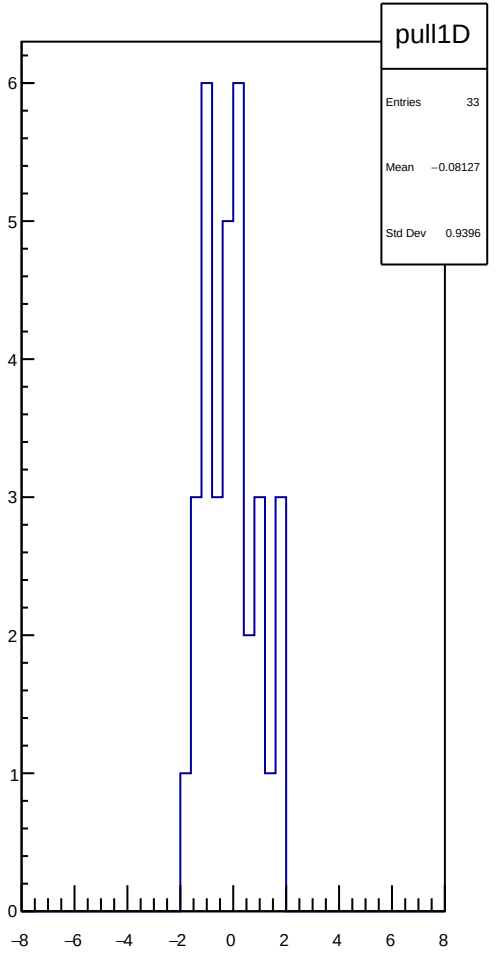

asym_us_avg_rms vs run
χ² / ndf 4444 / 32
p0 1244 ± 1.546
1500
1450
1400
1350
1300
1250
1200
1150
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

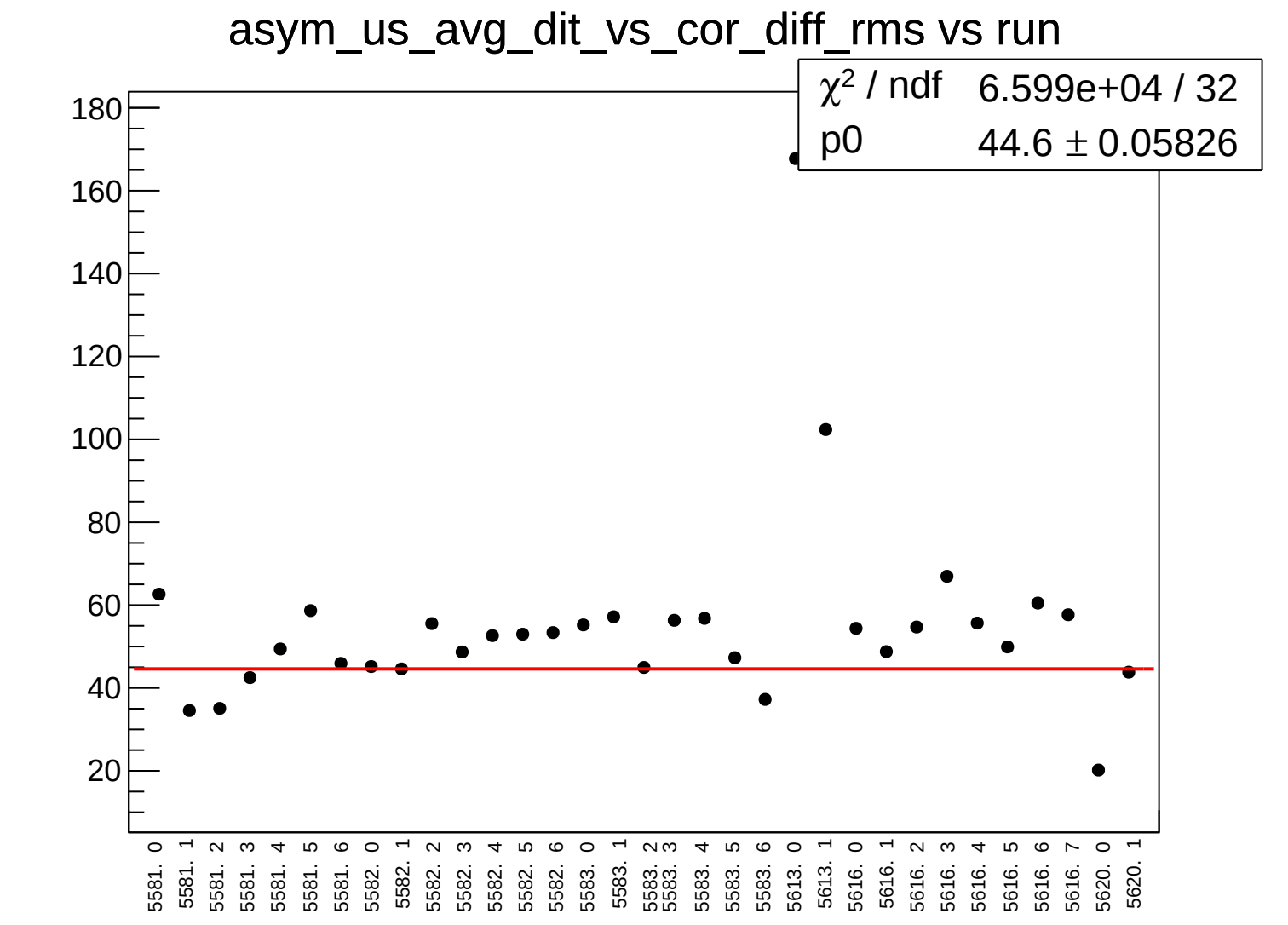

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.81 / 32
p0 4.501e−14 ± 8.233e−14
10
8
6
4
2
0
−2
−4
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −154.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

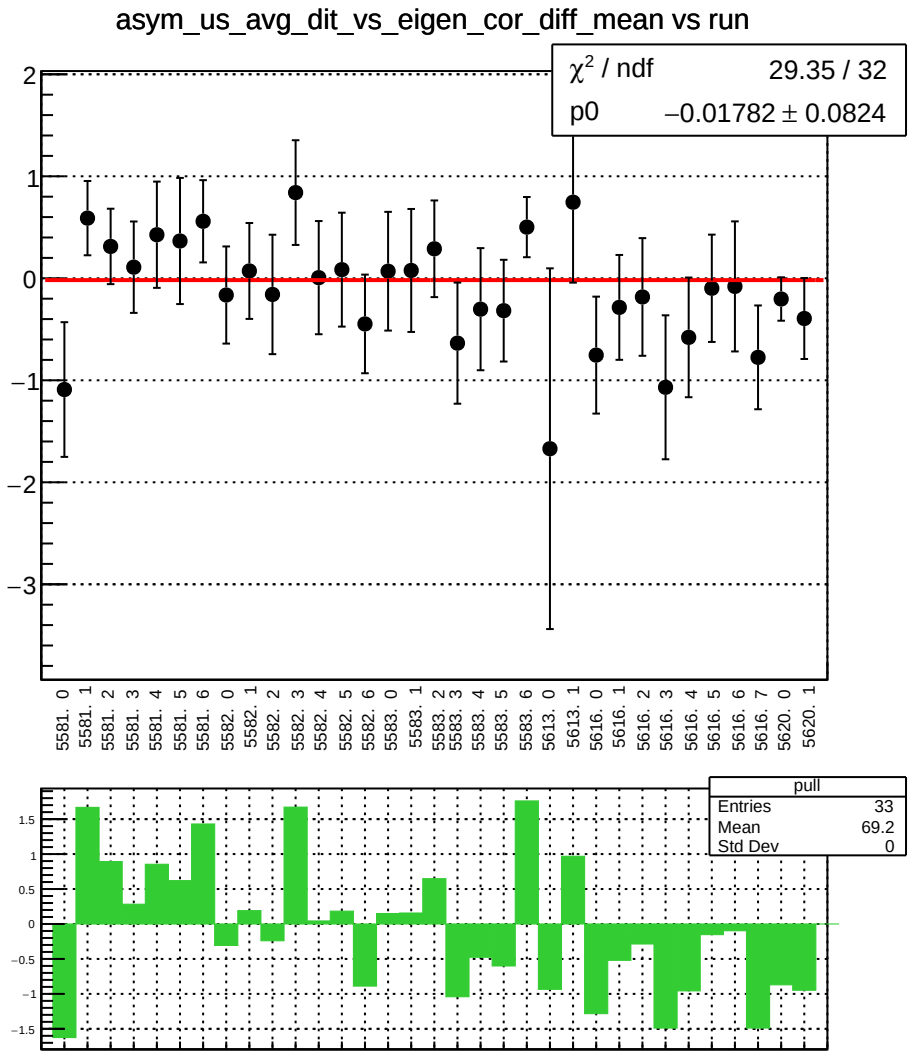

pull1D
Entries 33
Mean −0.01351
Std Dev 0.8669
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

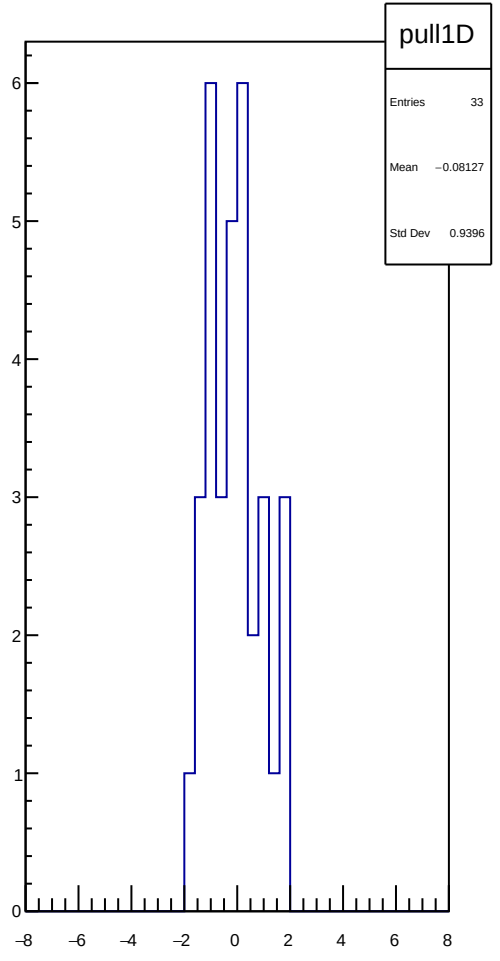

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.148e+05 / 32
p0 3.38e−11 ± 5.822e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

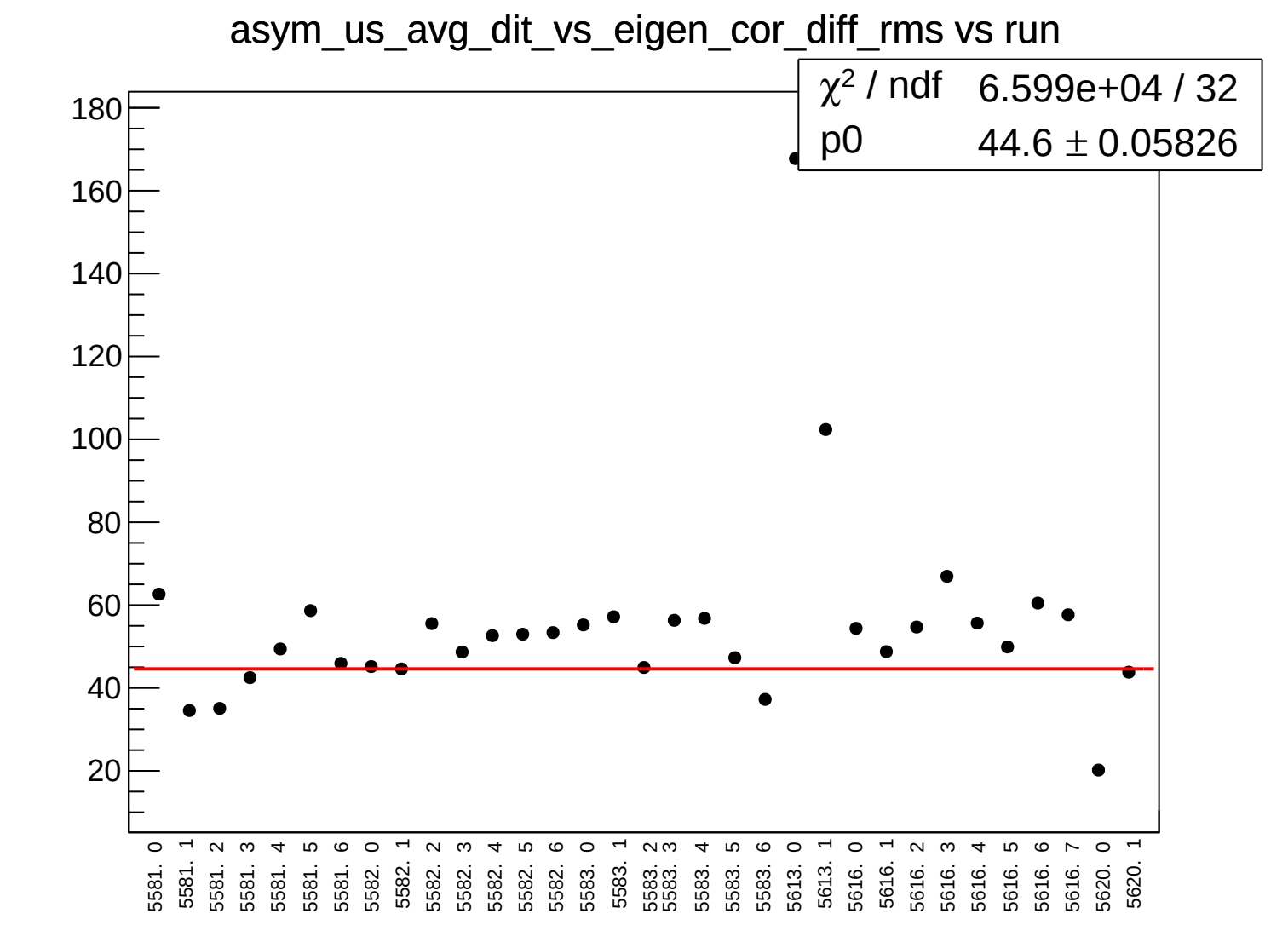

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 29.35 / 32
p0 −0.01782 ± 0.0824
2
1
0
−1
−2
−3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 69.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

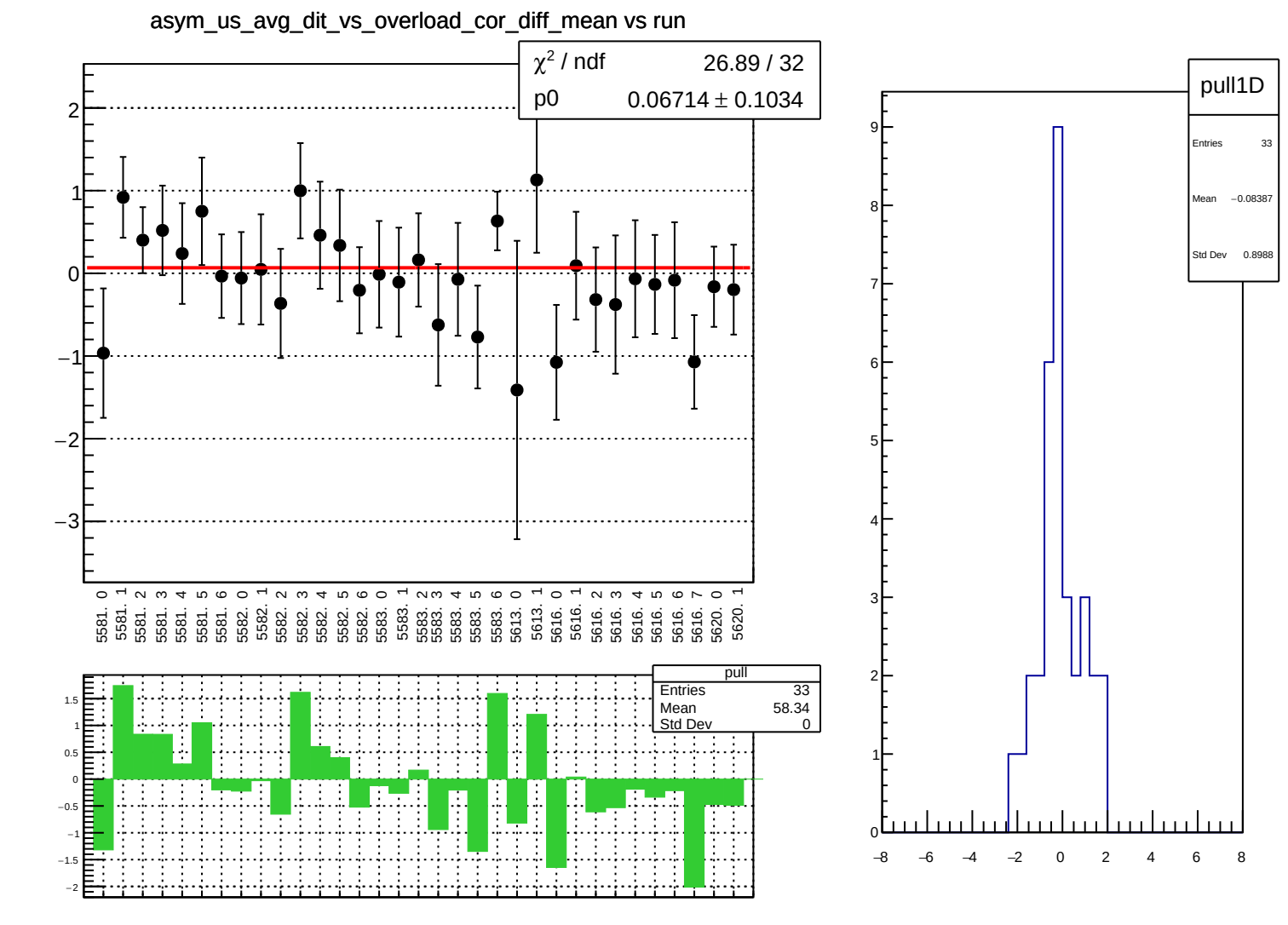

pull1D
Entries 33
Mean −0.08127
Std Dev 0.9396
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

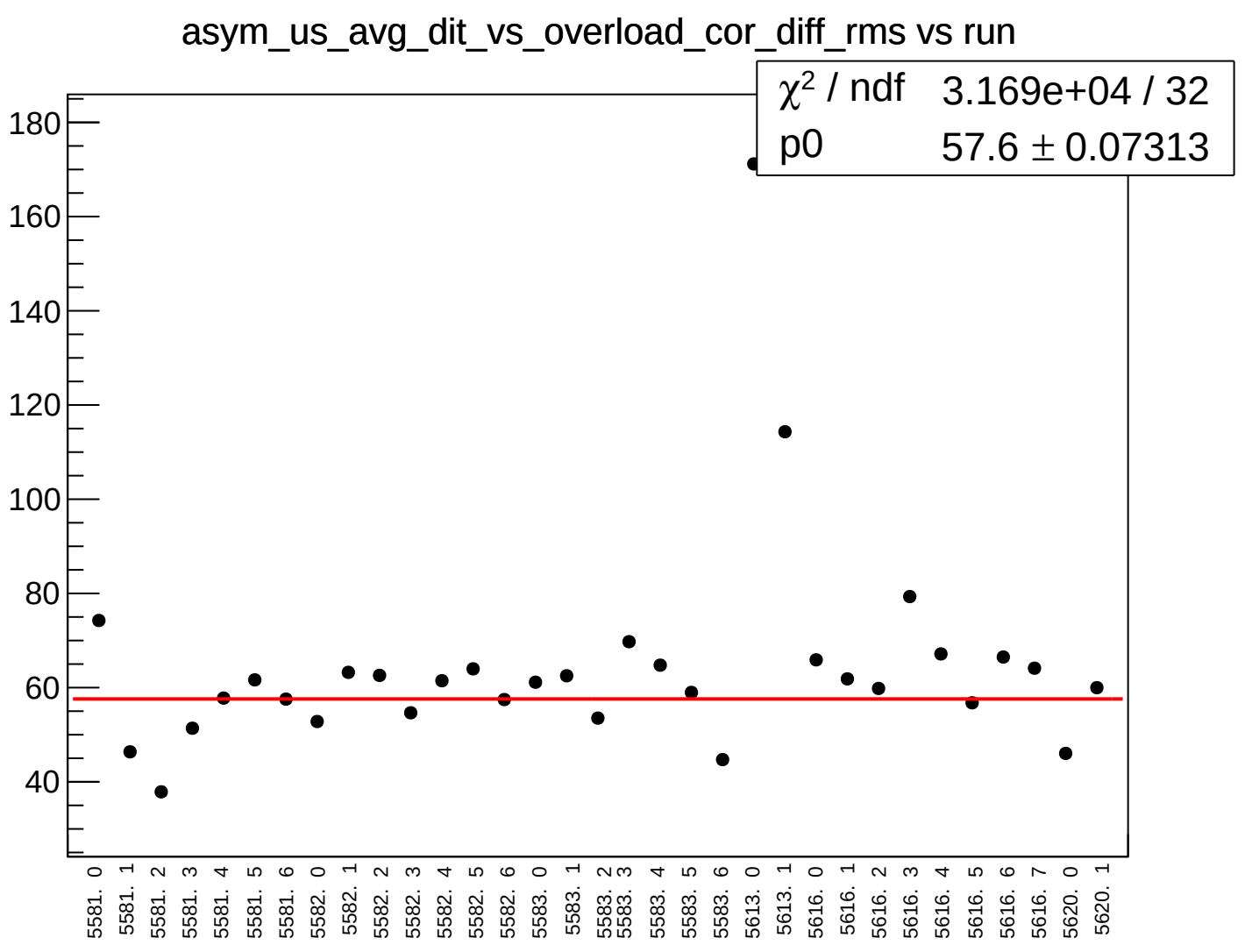

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.599e+04 / 32
p0 44.6 ± 0.05826
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

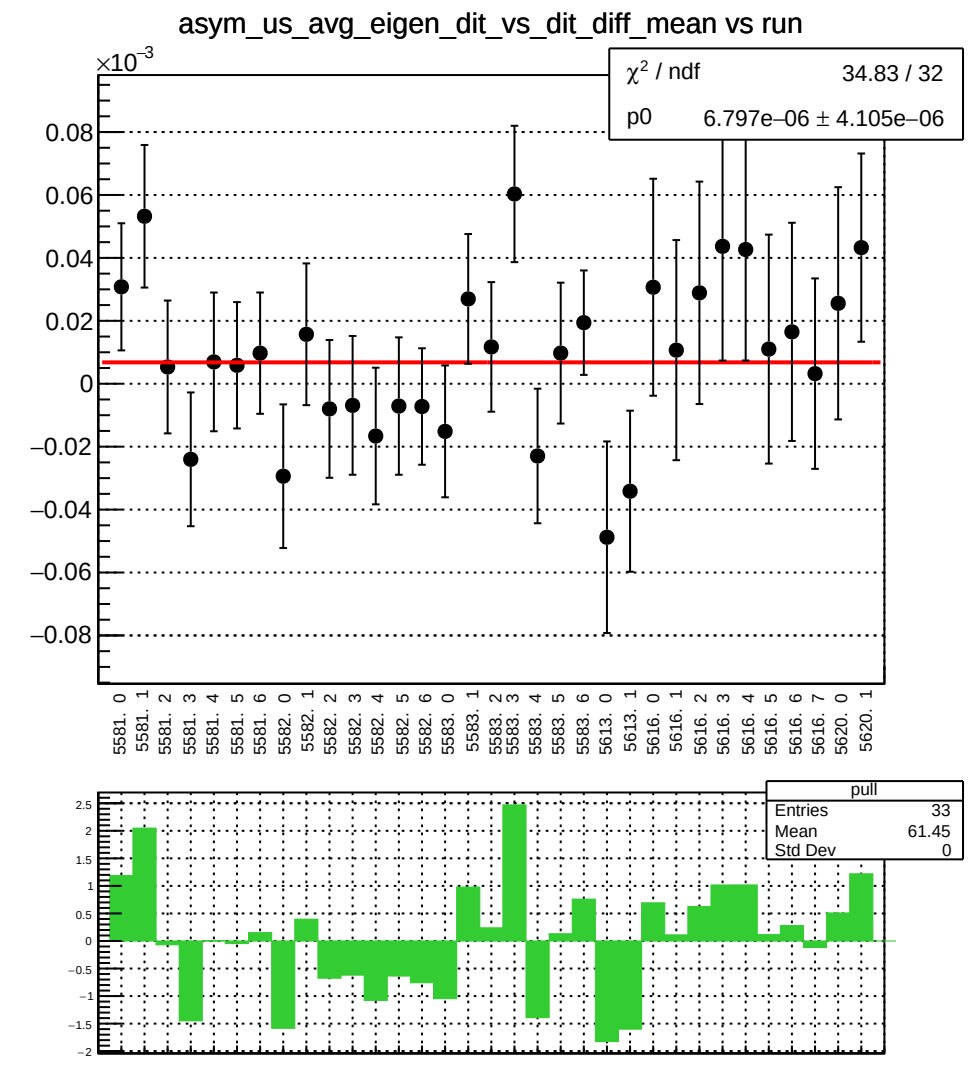

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.35 / 32
p0 −0.01782 ± 0.0824
pull
Entries 33
Mean 69.2
Std Dev 0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

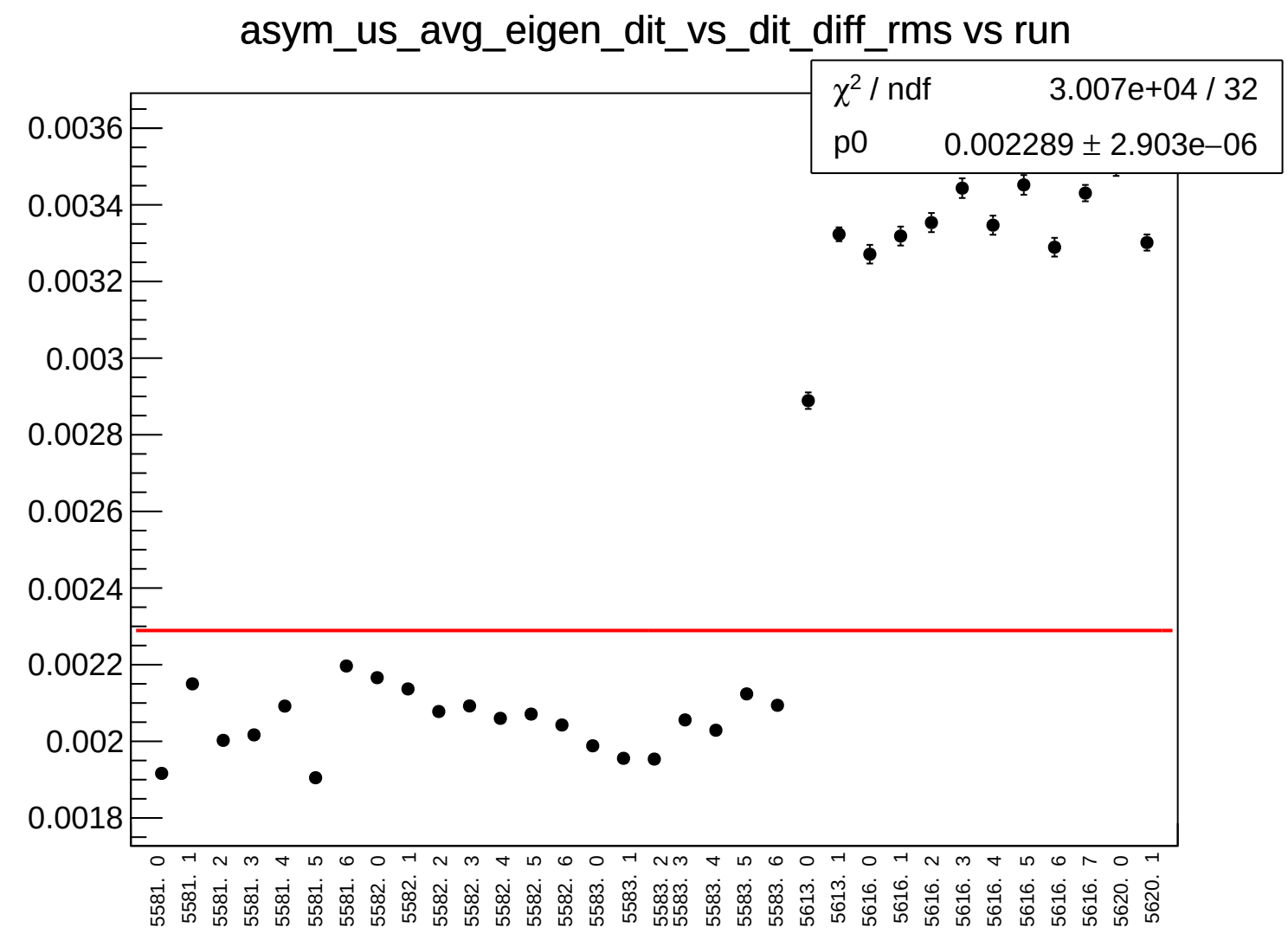

pull1D
Entries 33
Mean −0.08127
Std Dev 0.9396

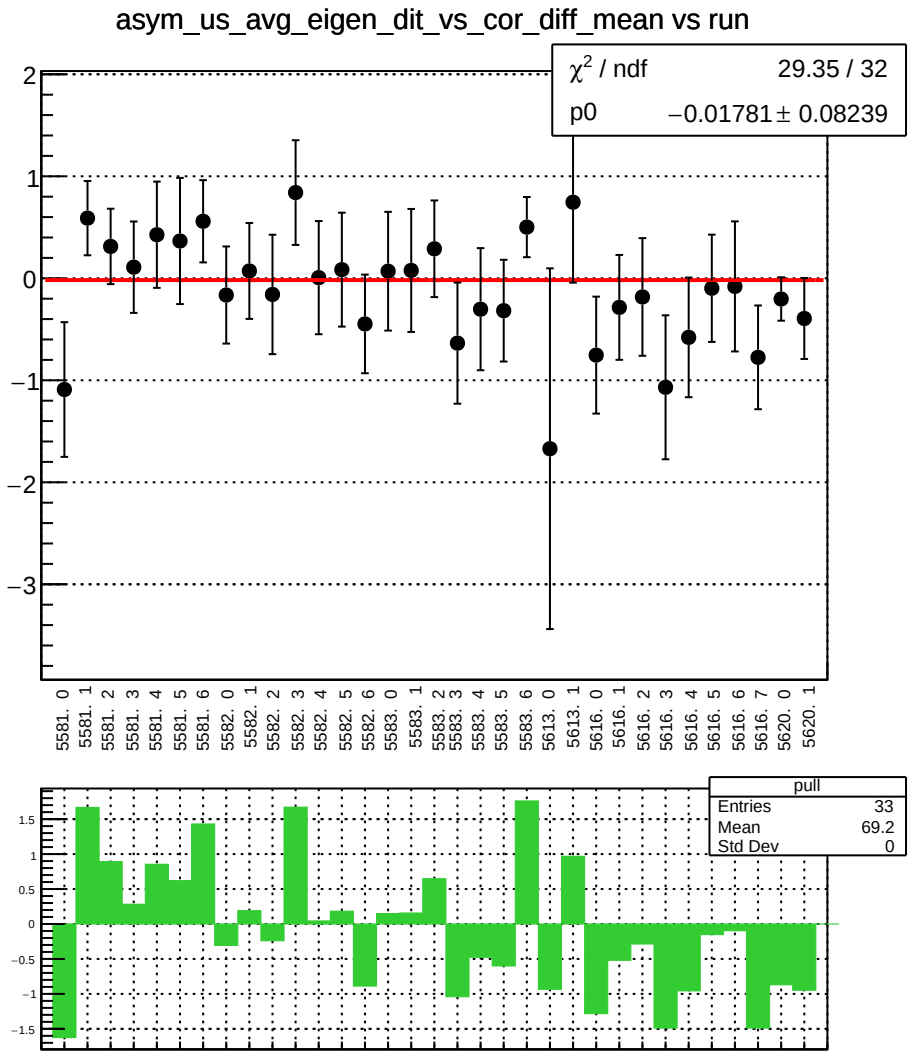

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.599e+04 / 32
p0 44.6 ± 0.05826
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

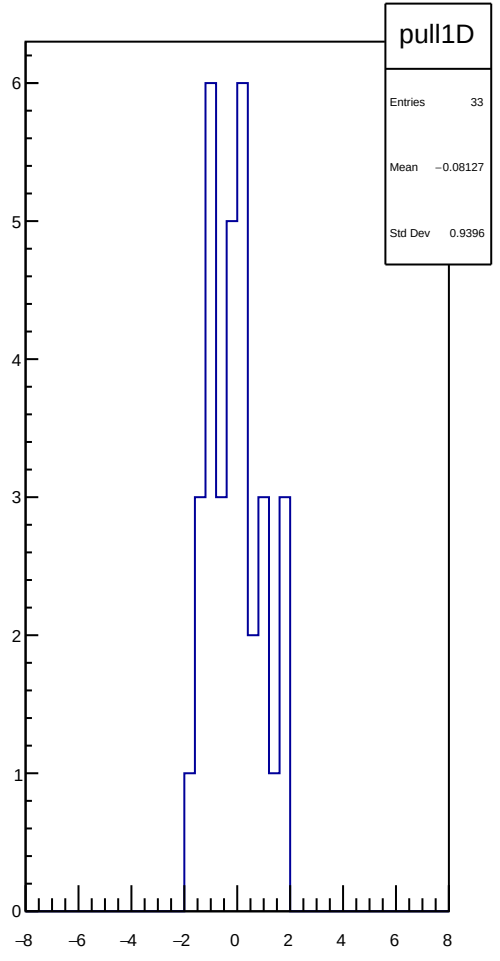

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 26.89 / 32
p0 0.06714 ± 0.1034
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 58.34
Std Dev 0
pull1D
Entries 33
Mean −0.08387
Std Dev 0.8988

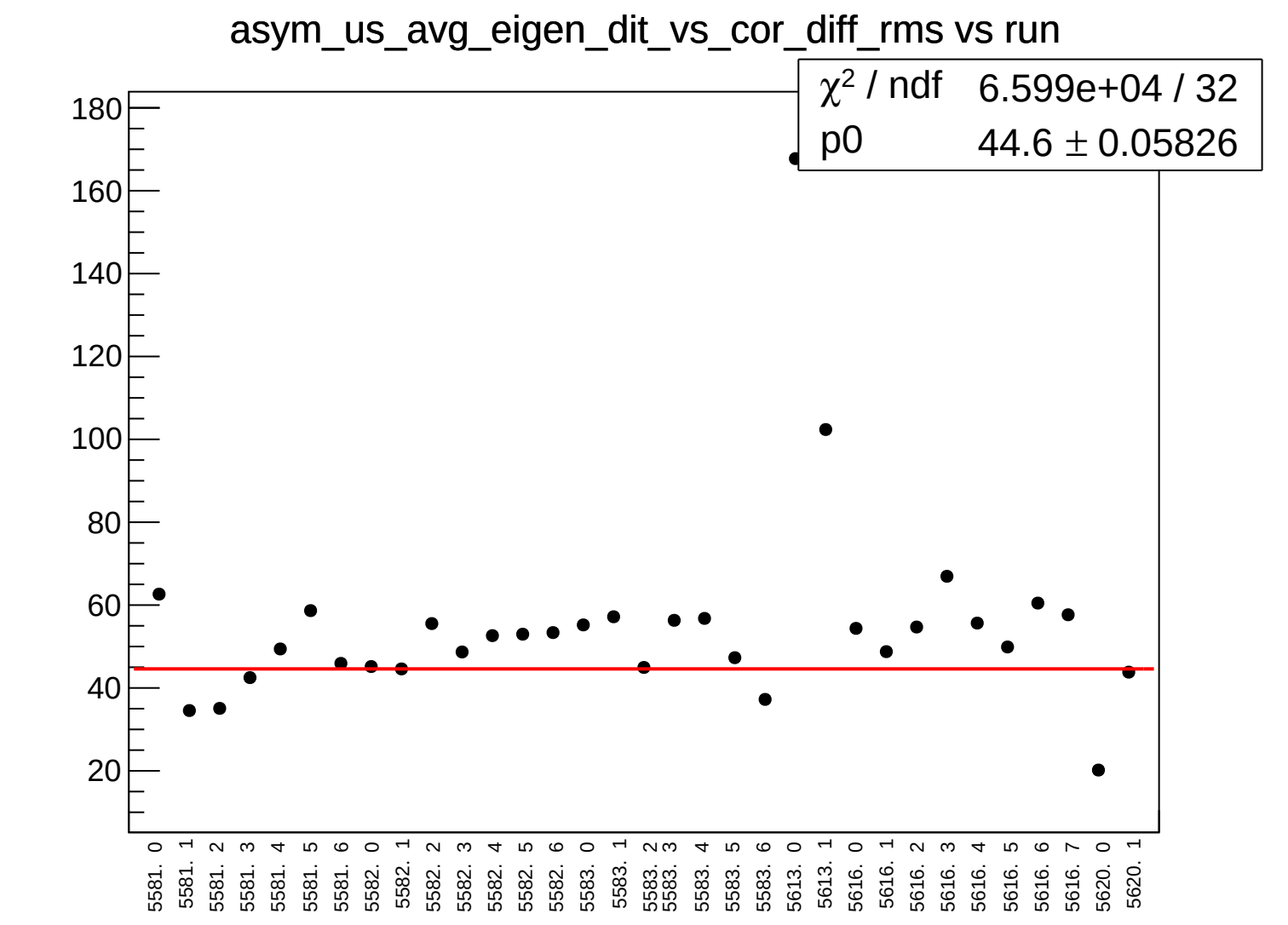

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.169e+04 / 32
p0 57.6 ± 0.07313
180
160
140
120
100
80
60
40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

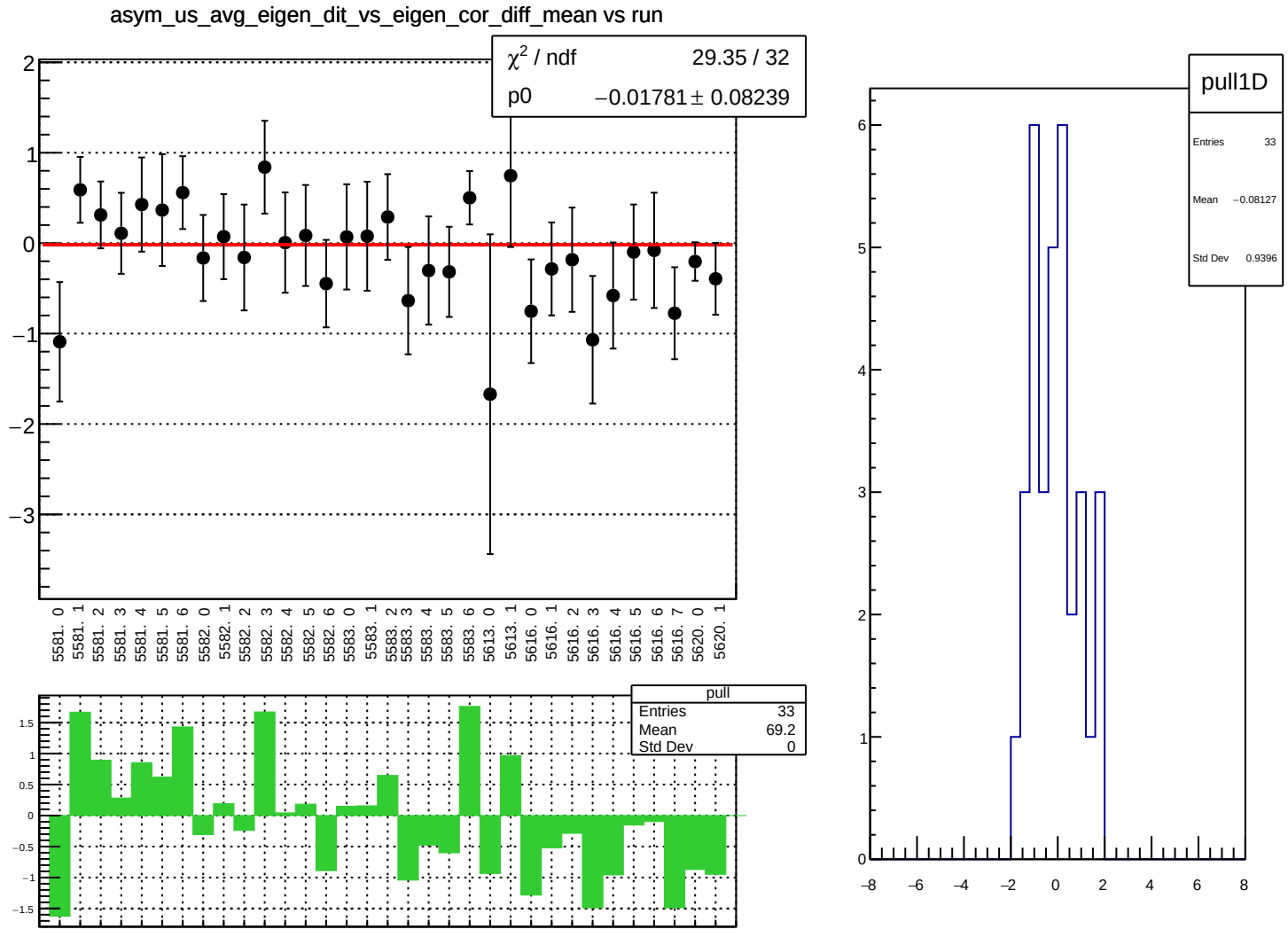

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 34.83 / 32
p0 6.797e−06 ± 4.105e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 61.45
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.03199
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

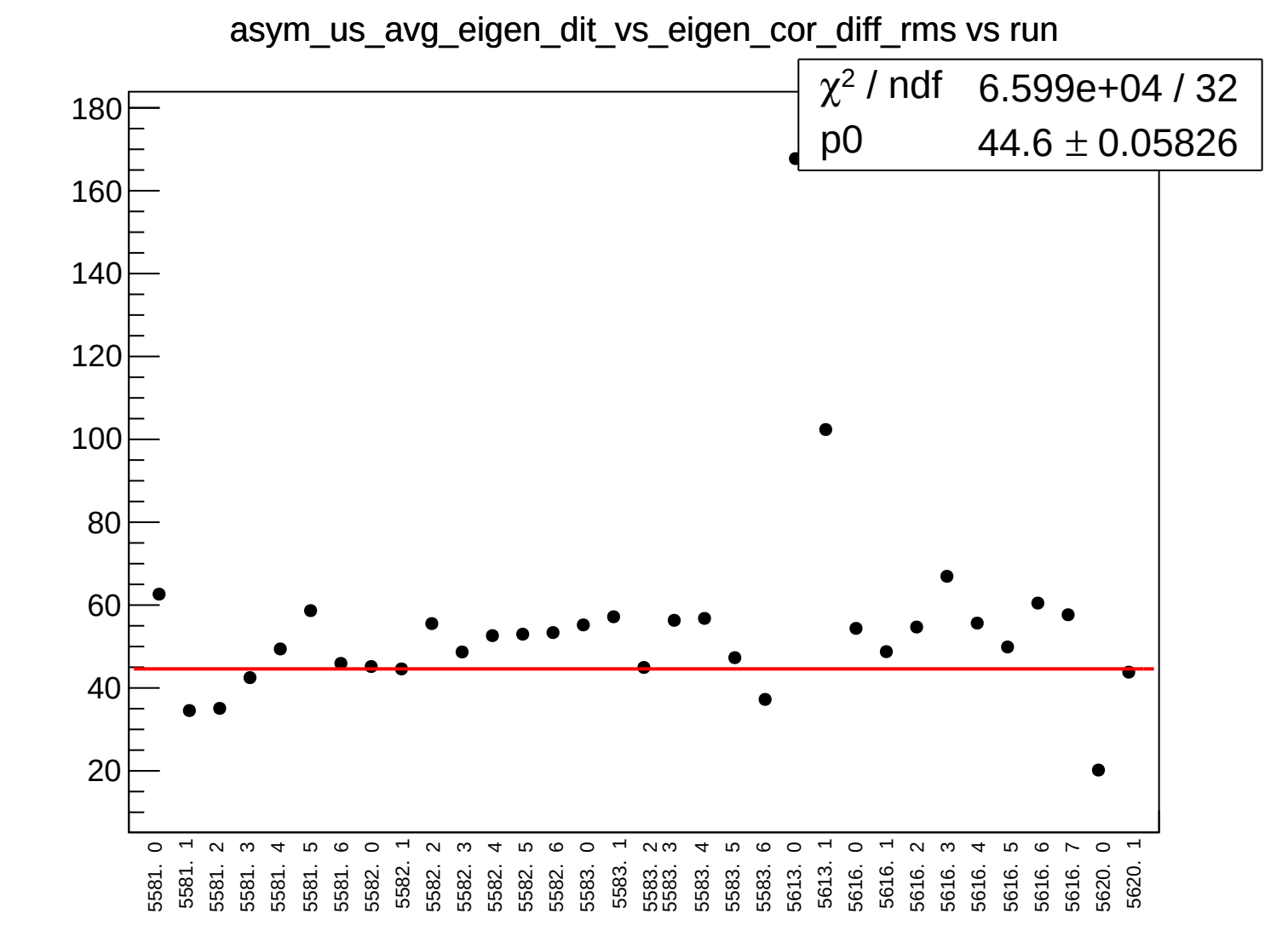

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.007e+04 / 32
p0 0.002289 ± 2.903e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

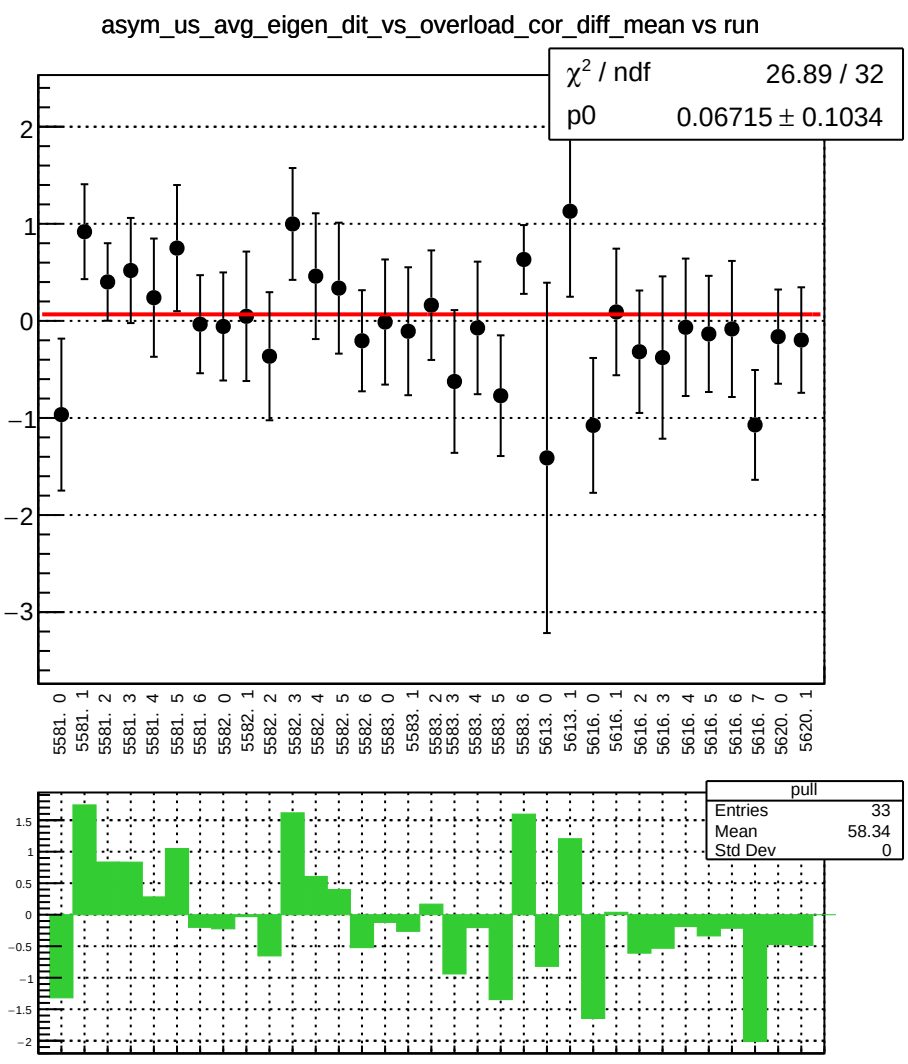

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.35 / 32
p0 −0.01781 ± 0.08239
pull
Entries 33
Mean 69.2
Std Dev 0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

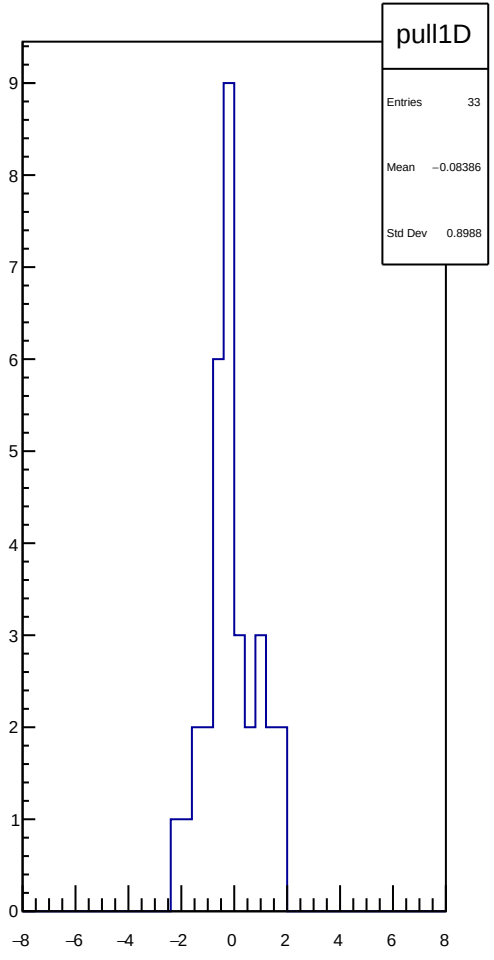

pull1D
Entries 33
Mean −0.08127
Std Dev 0.9396

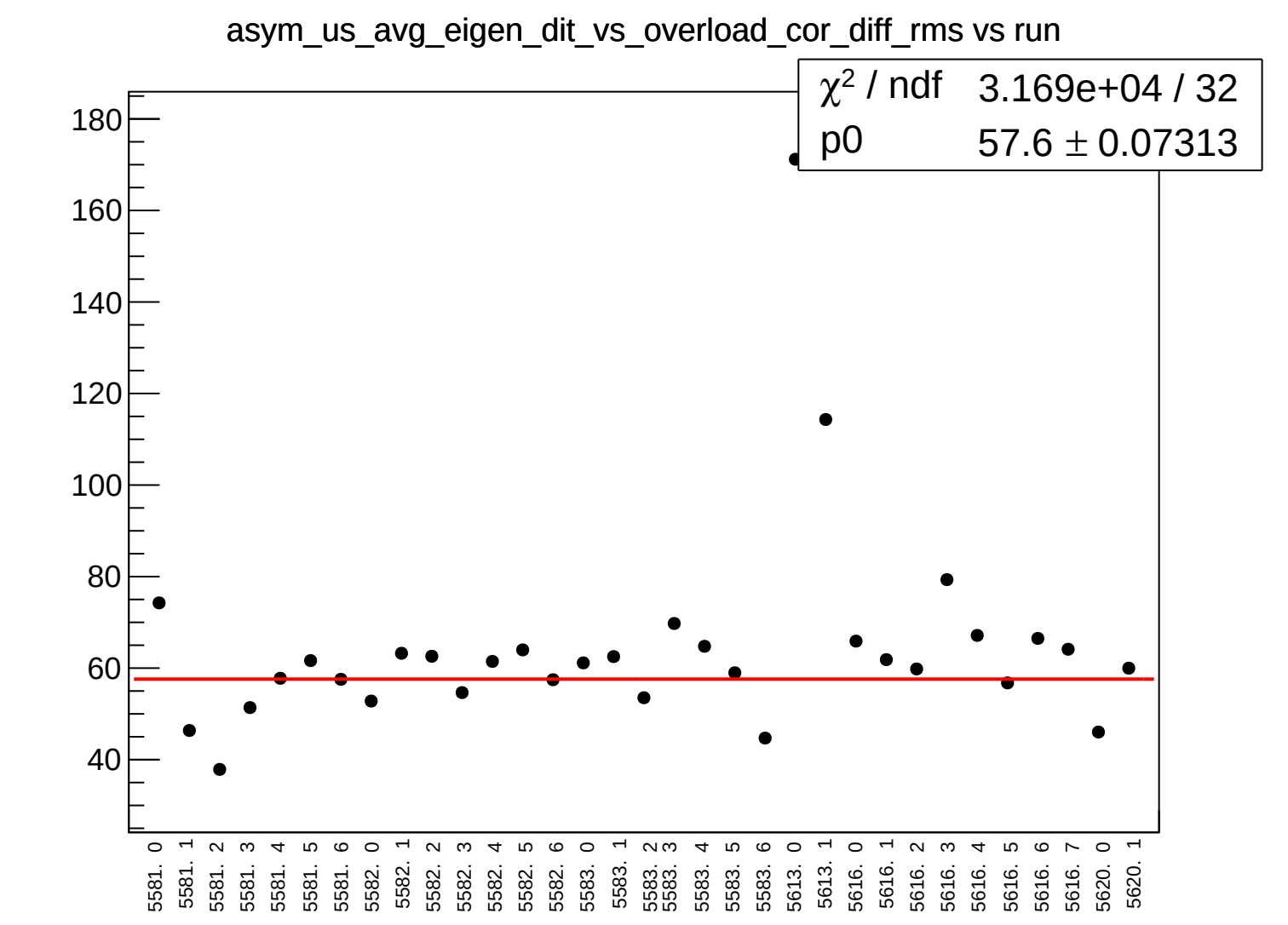

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.599e+04 / 32
p0 44.6 ± 0.05826
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

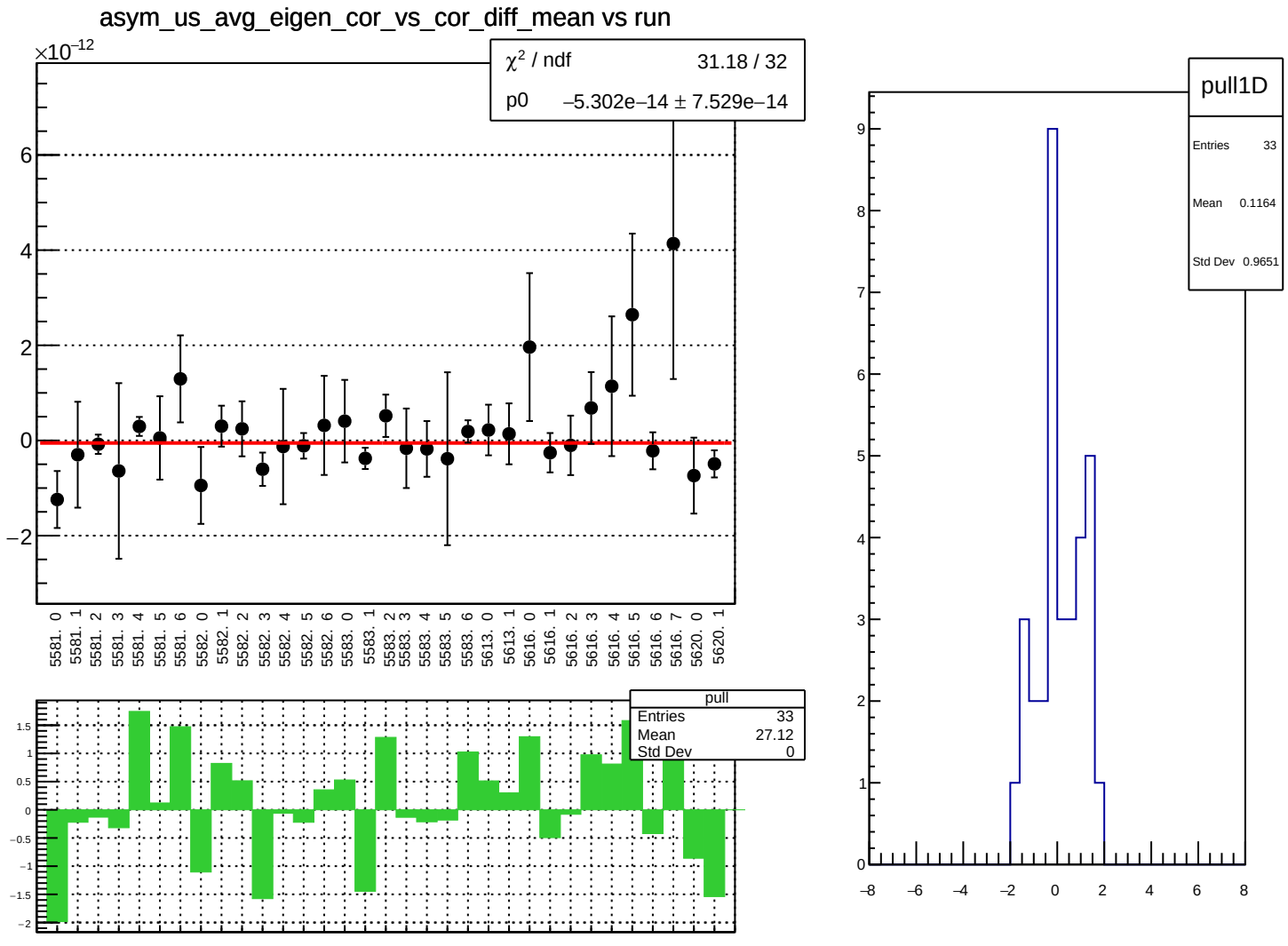

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.35 / 32
p0 −0.01781 ± 0.08239
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 69.2
Std Dev 0
pull1D
Entries 33
Mean −0.08127
Std Dev 0.9396

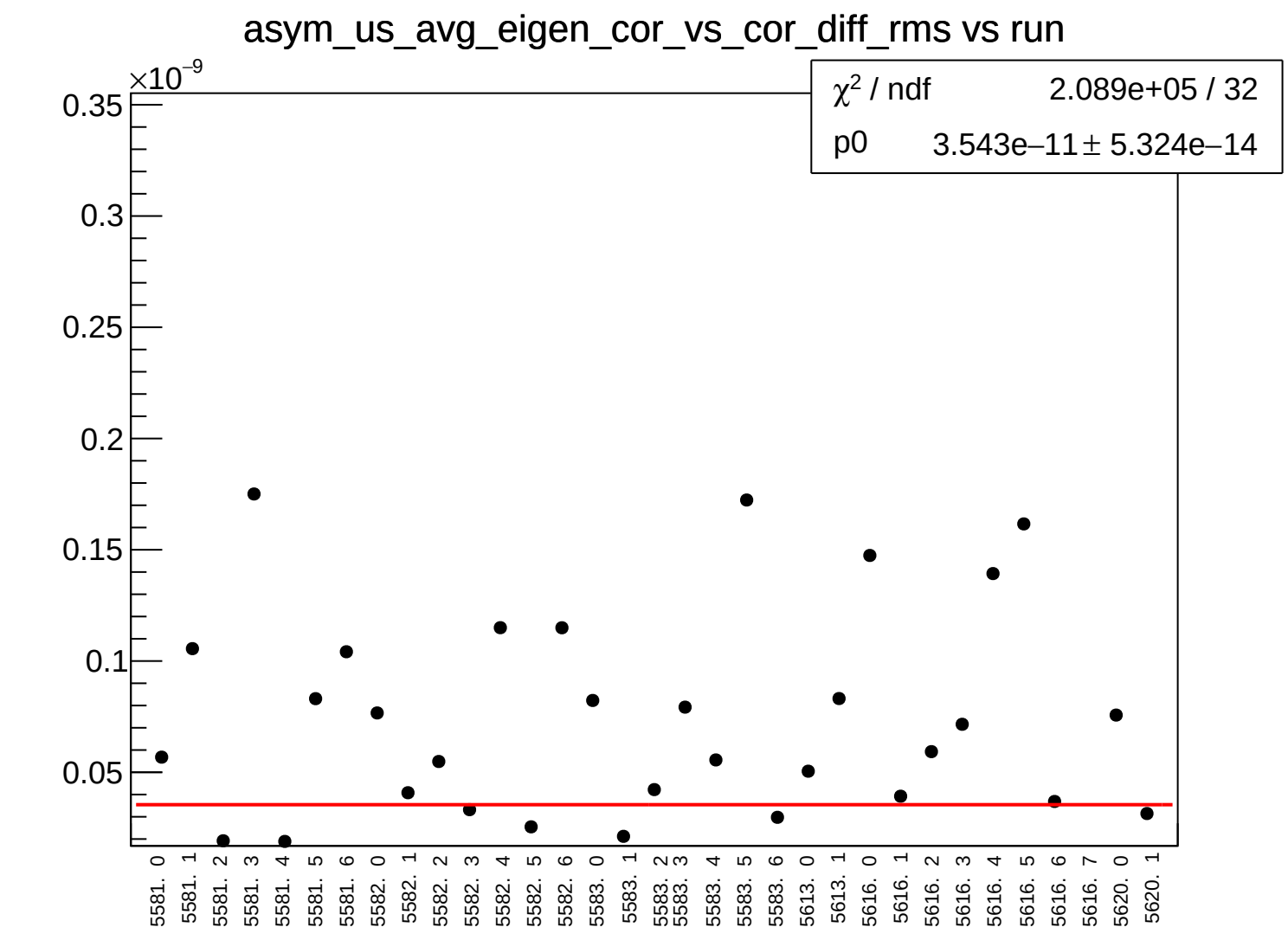

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.599e+04 / 32
p0 44.6 ± 0.05826
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

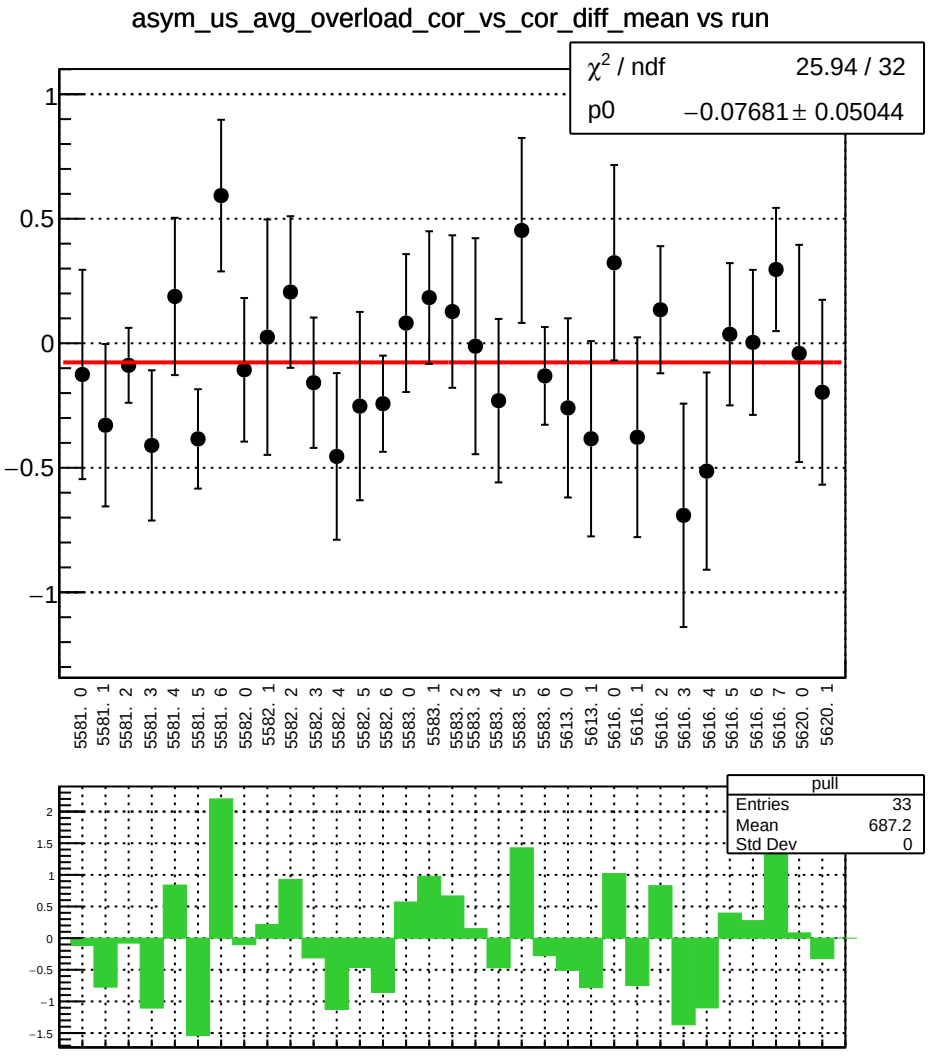

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 26.89 / 32
p0 0.06715 ± 0.1034
pull
Entries 33
Mean 58.34
Std Dev 0

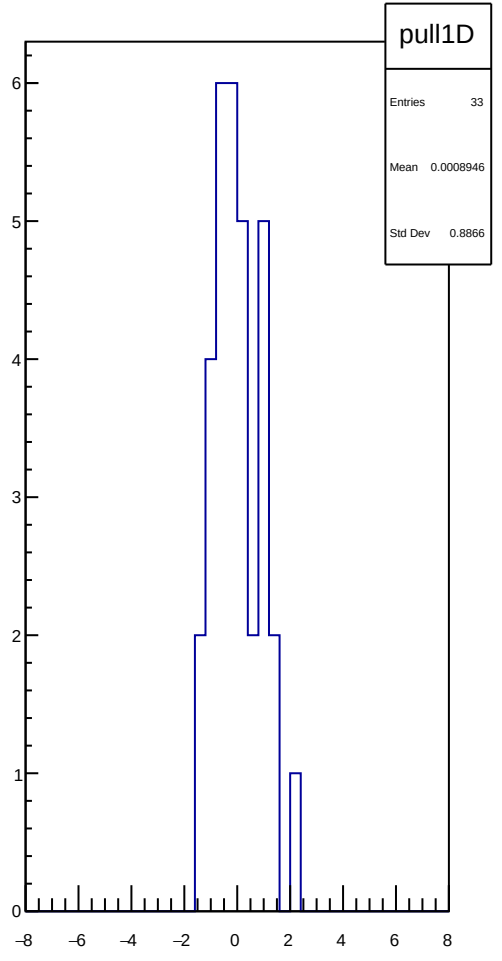

pull1D
Entries 33
Mean −0.08386
Std Dev 0.8988

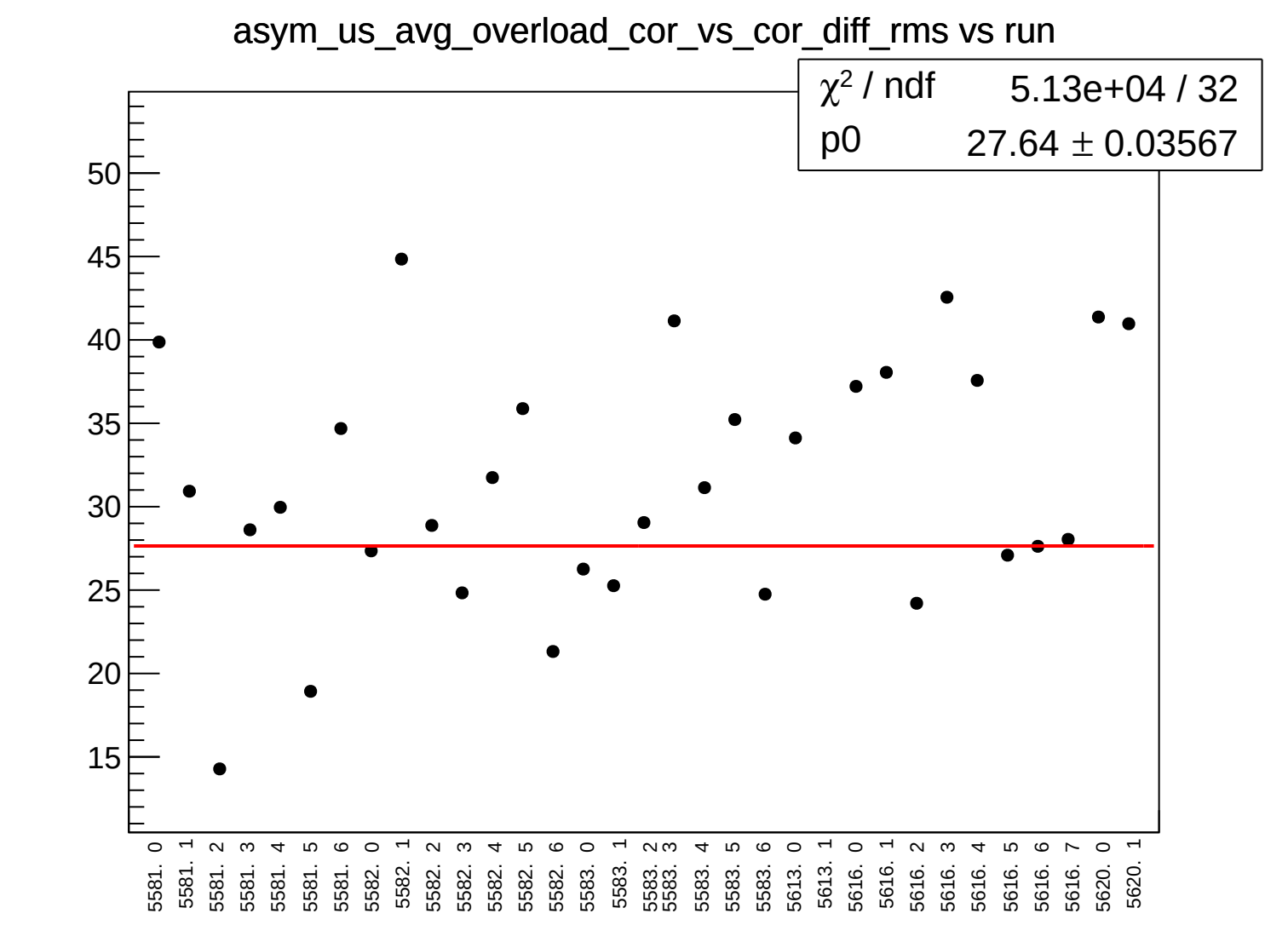

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.169e+04 / 32
p0 57.6 ± 0.07313
180
160
140
120
100
80
60
40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

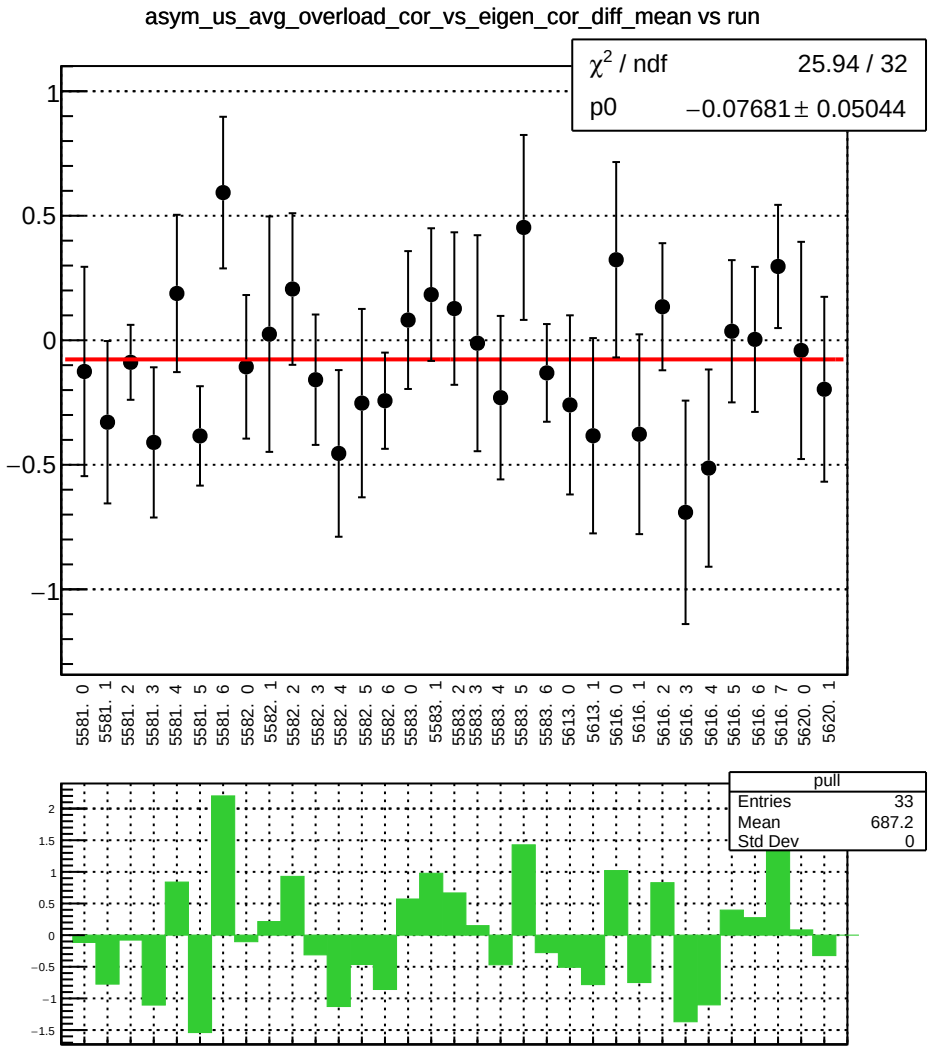

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 31.18 / 32
p0 −5.302e−14 ± 7.529e−14
6
4
2
0
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.1164
Std Dev 0.9651
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

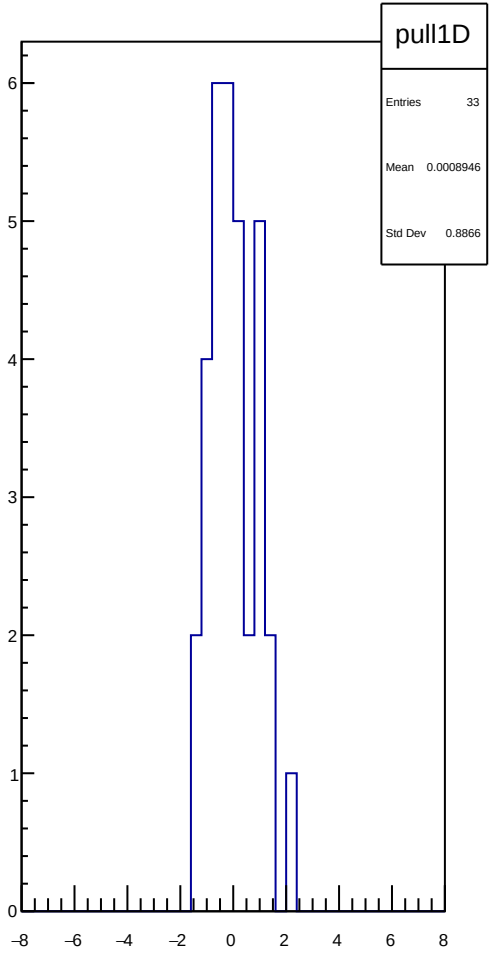

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.089e+05 / 32
p0 3.543e−11 ± 5.324e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

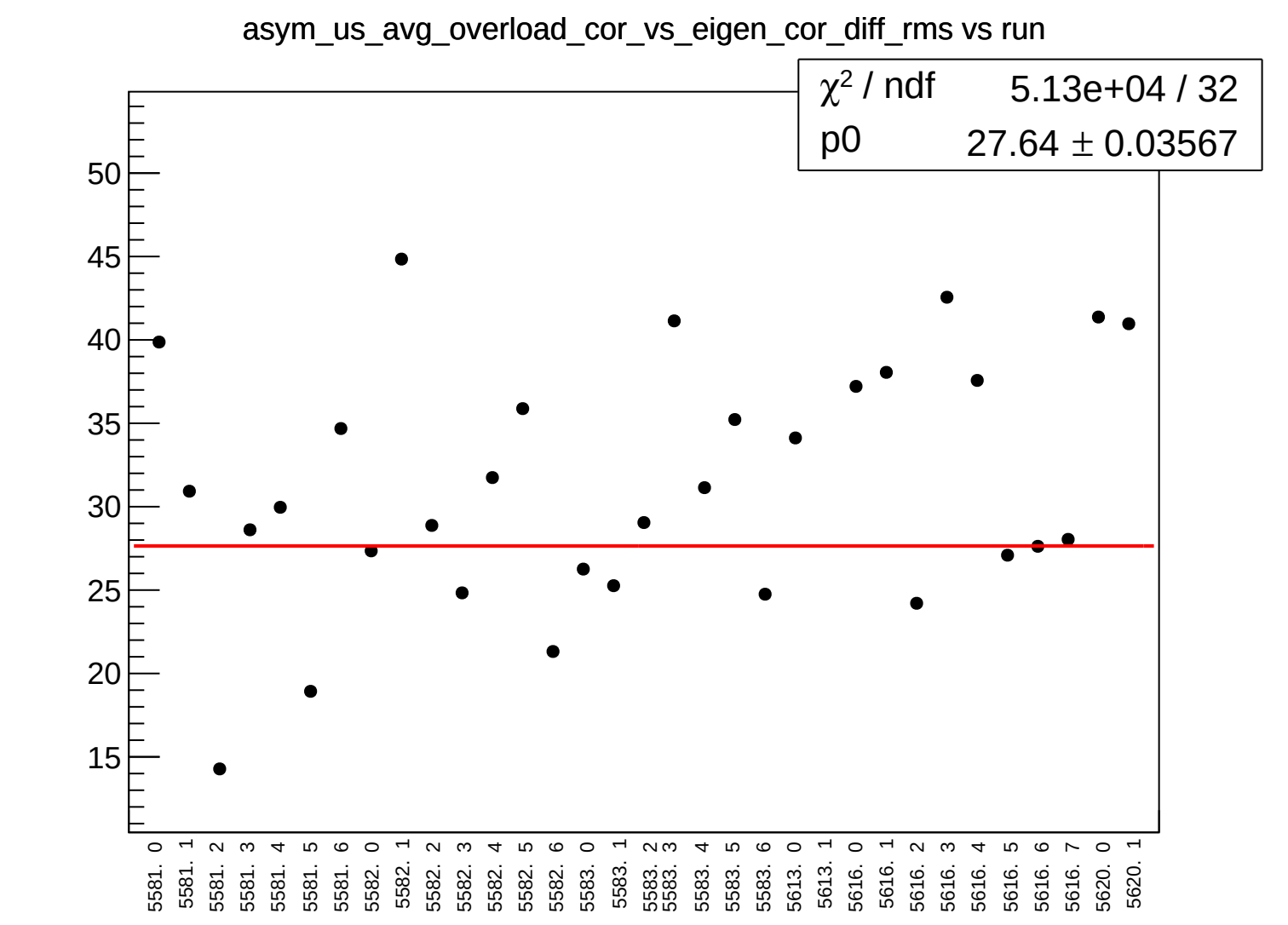

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 25.94 / 32
p0 −0.07681 ± 0.05044
pull
Entries 33
Mean 687.2
Std Dev 0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

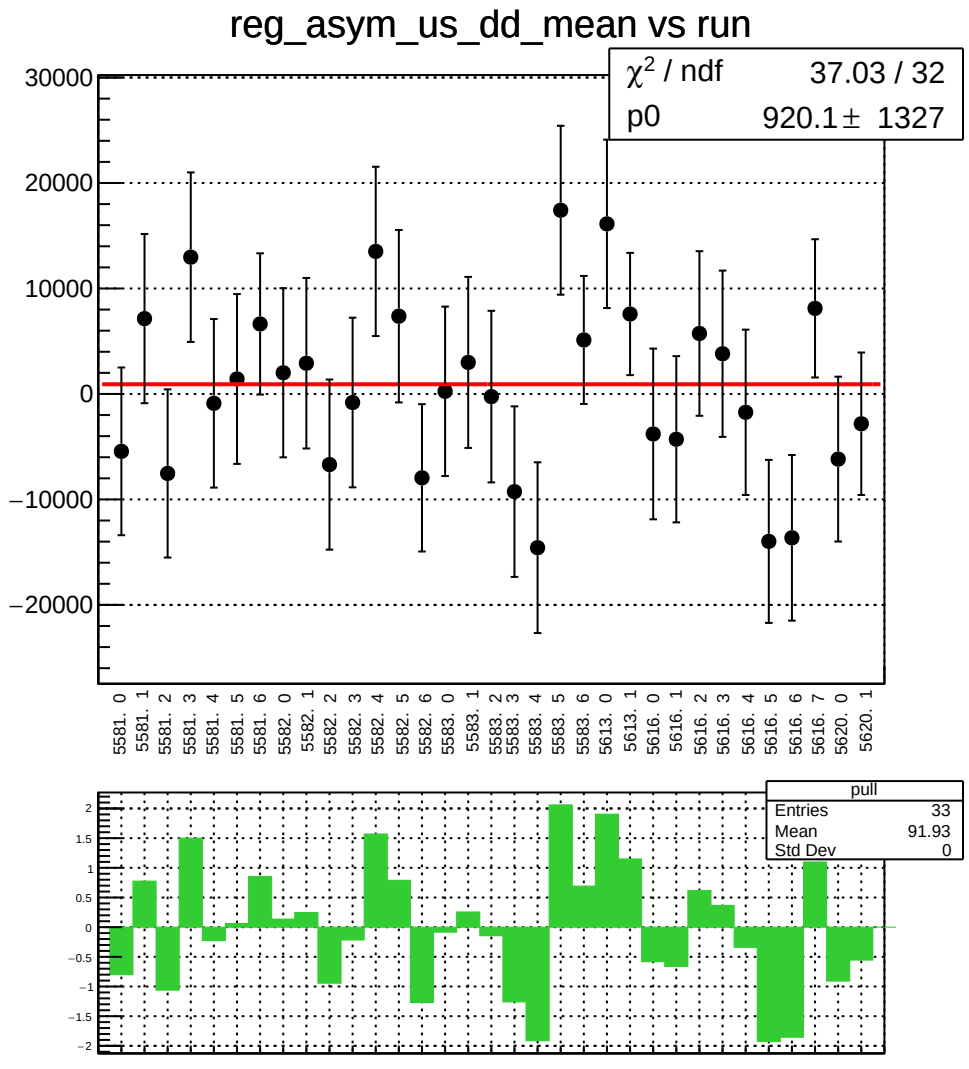

pull1D
Entries 33
Mean 0.0008946
Std Dev 0.8866

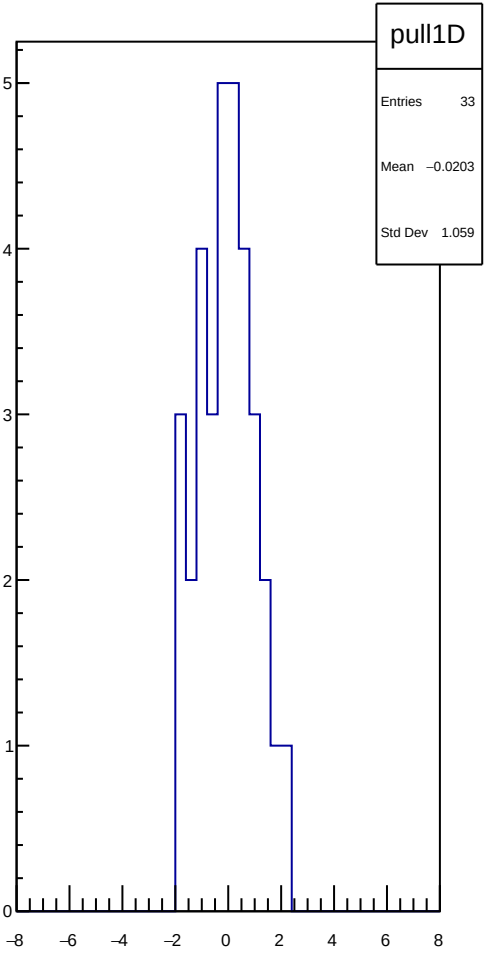

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 5.13e+04 / 32
p0 27.64 ± 0.03567
50
45
40
35
30
25
20
15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

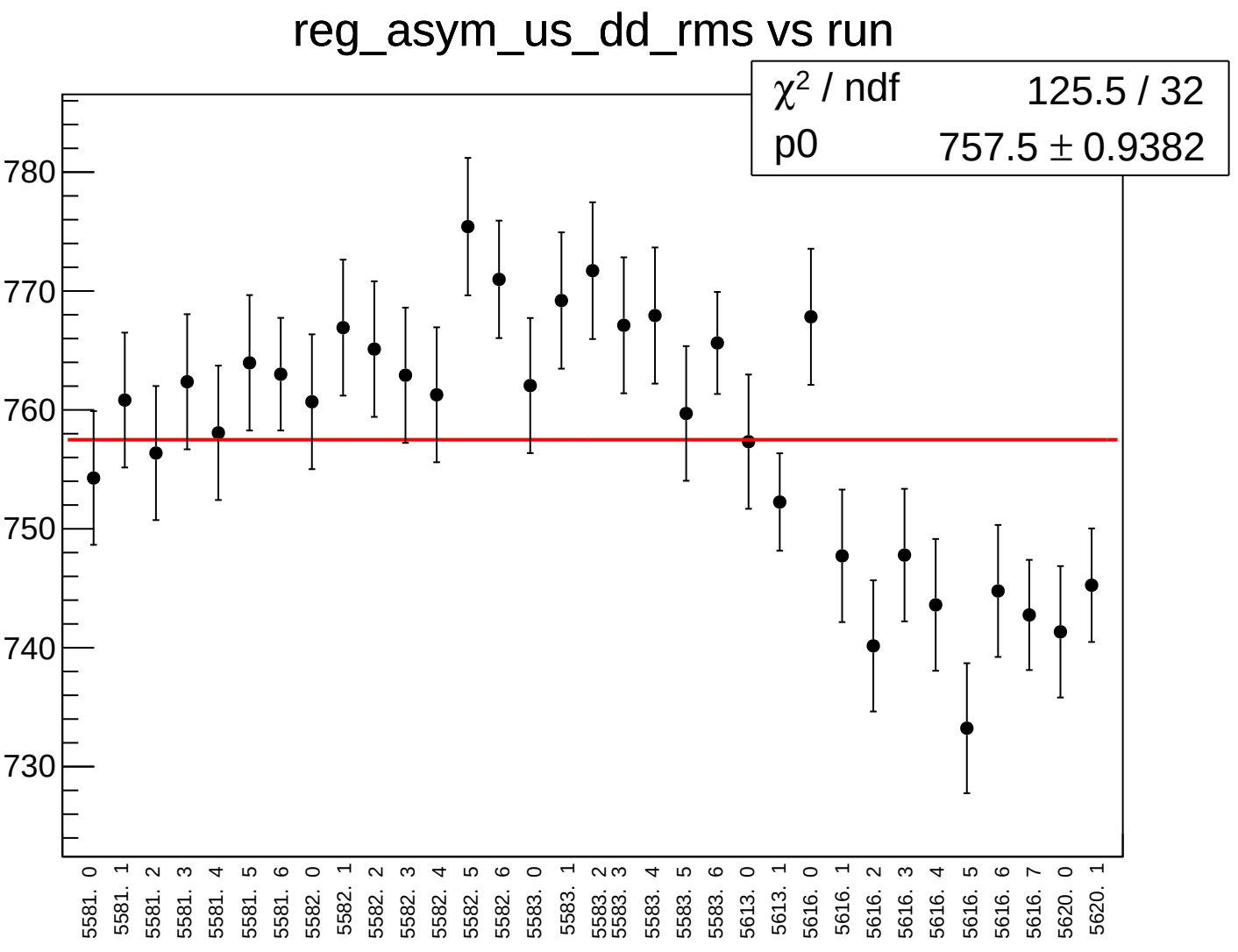

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.94 / 32
p0 −0.07681 ± 0.05044
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 687.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

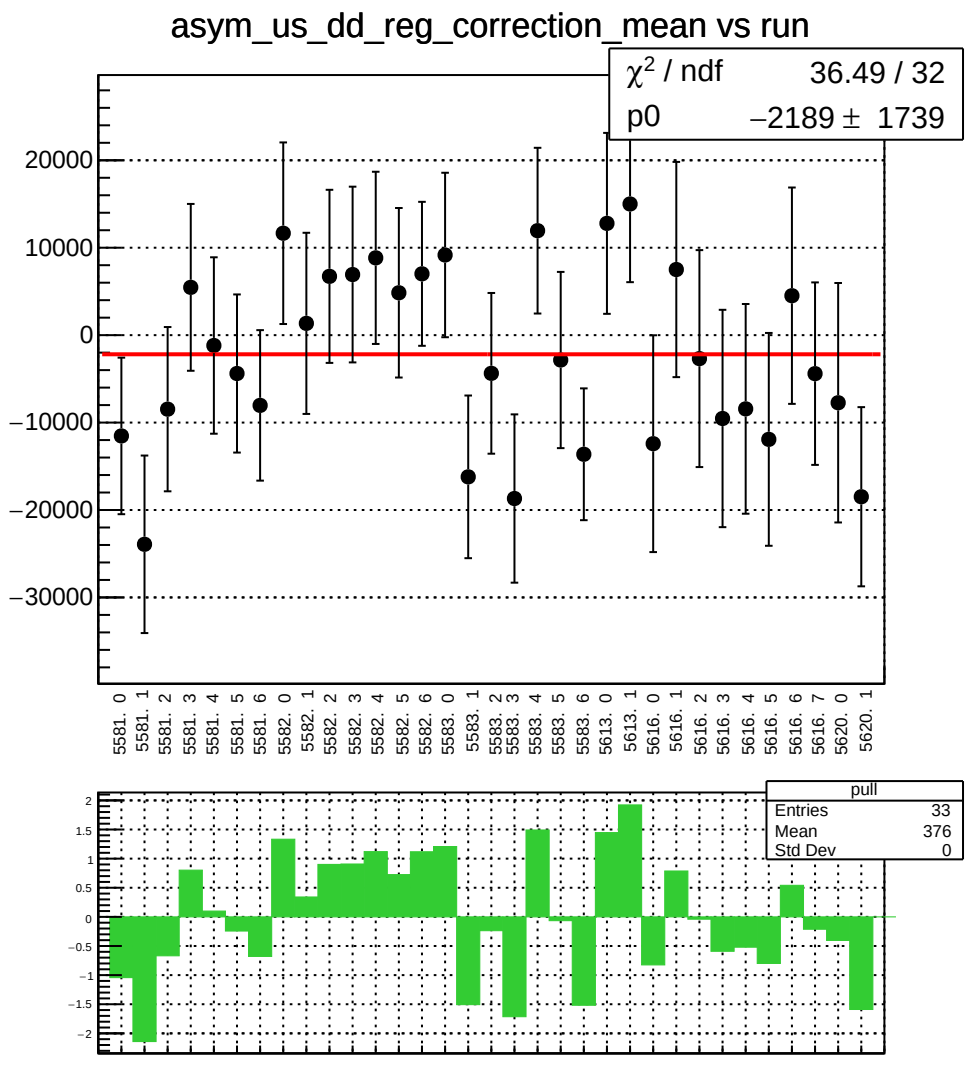

pull1D
Entries 33
Mean 0.0008946
Std Dev 0.8866
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

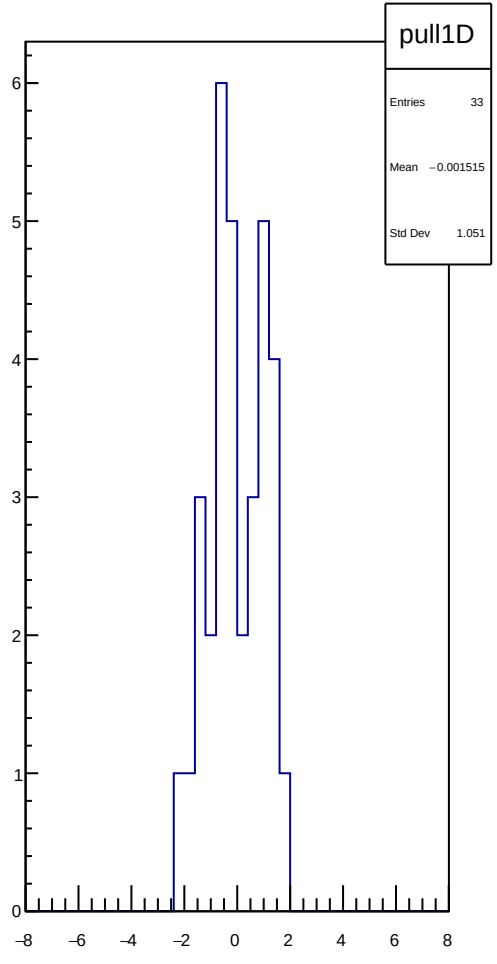

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.13e+04 / 32
p0 27.64 ± 0.03567
50
45
40
35
30
25
20
15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

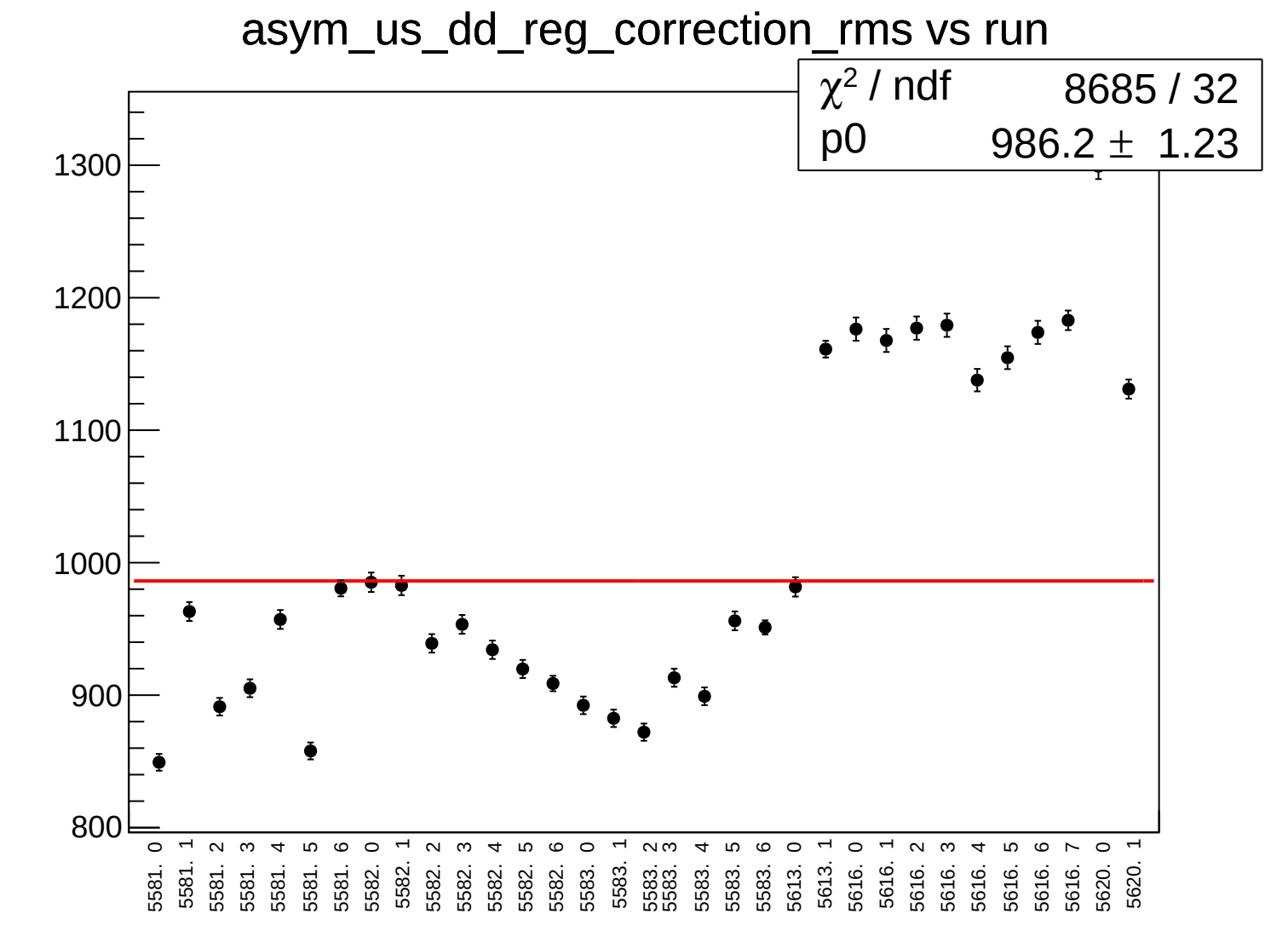

reg_asym_us_dd_mean vs run
χ² / ndf 37.03 / 32
p0 920.1 ± 1327
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 91.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

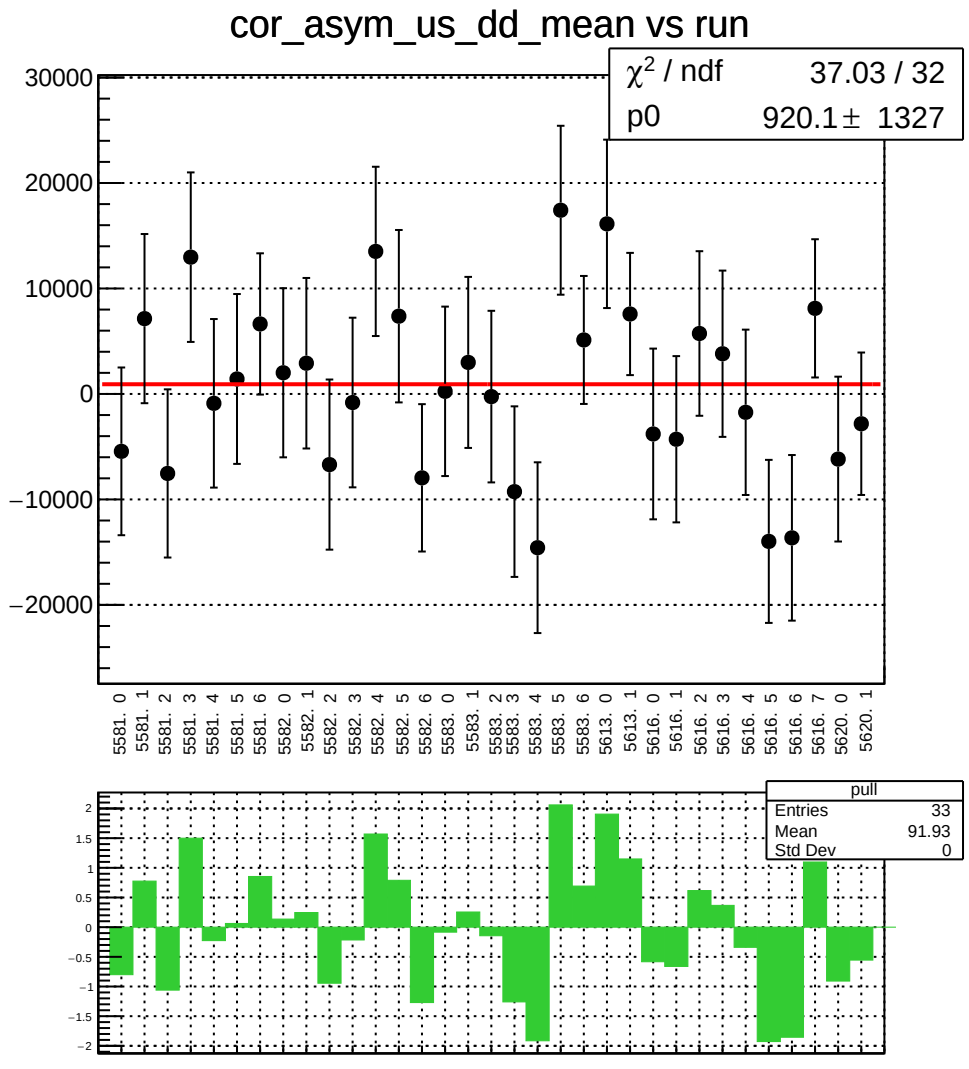

pull1D
Entries 33
Mean −0.0203
Std Dev 1.059
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

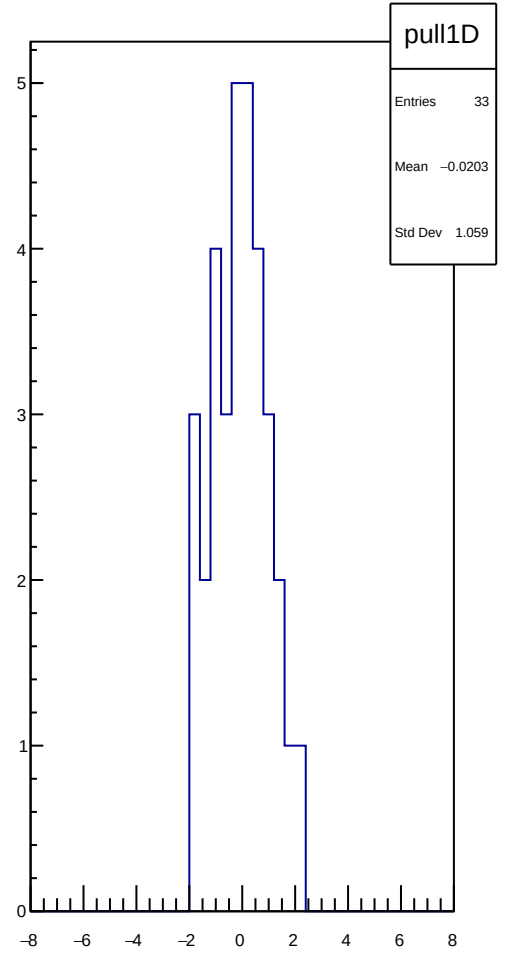

reg_asym_us_dd_rms vs run
χ^2 / ndf 125.5 / 32
p0 757.5 ± 0.9382
780
770
760
750
740
730
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

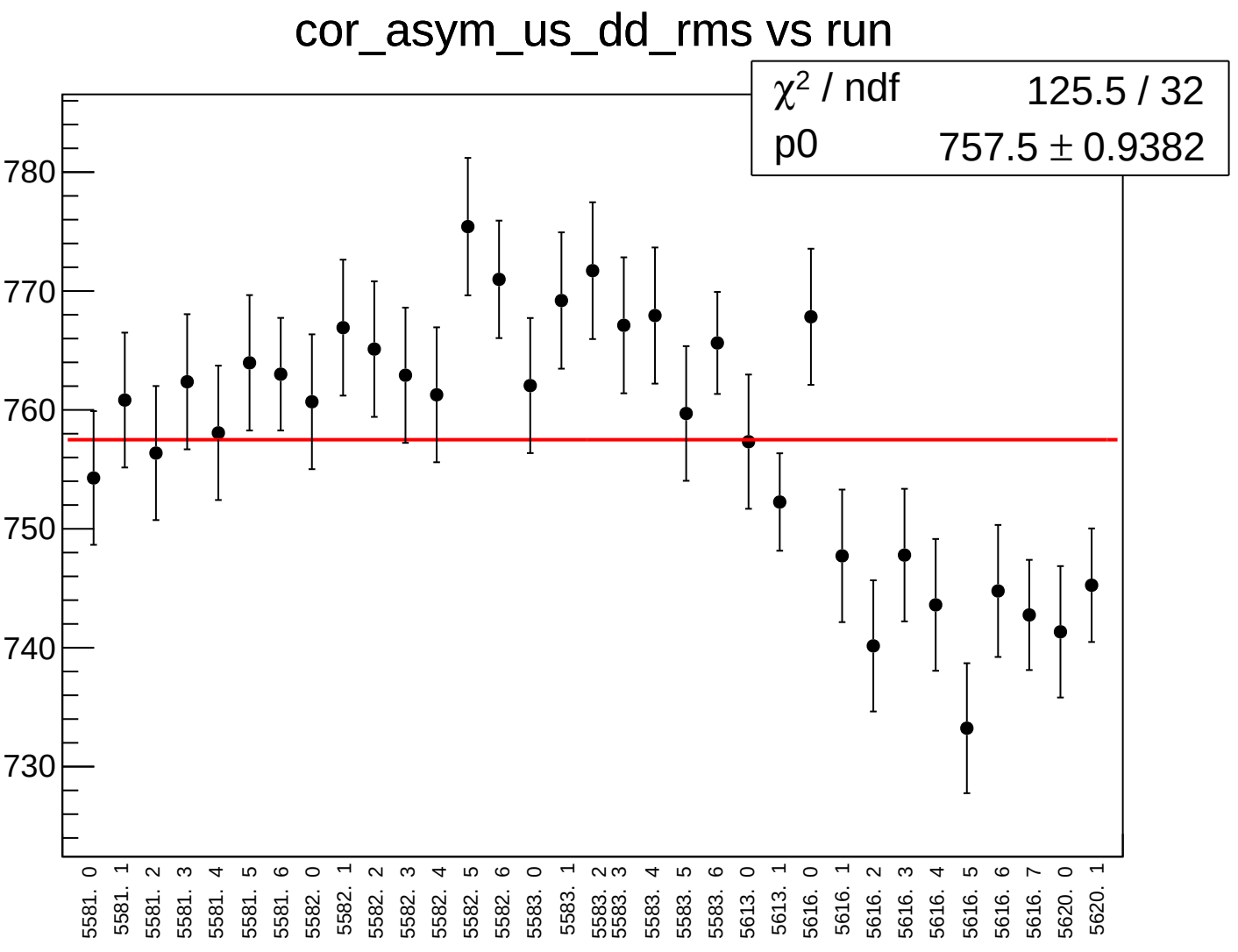

asym_us_dd_reg_correction_mean vs run
χ² / ndf 36.49 / 32
p0 −2189 ± 1739
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 376
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

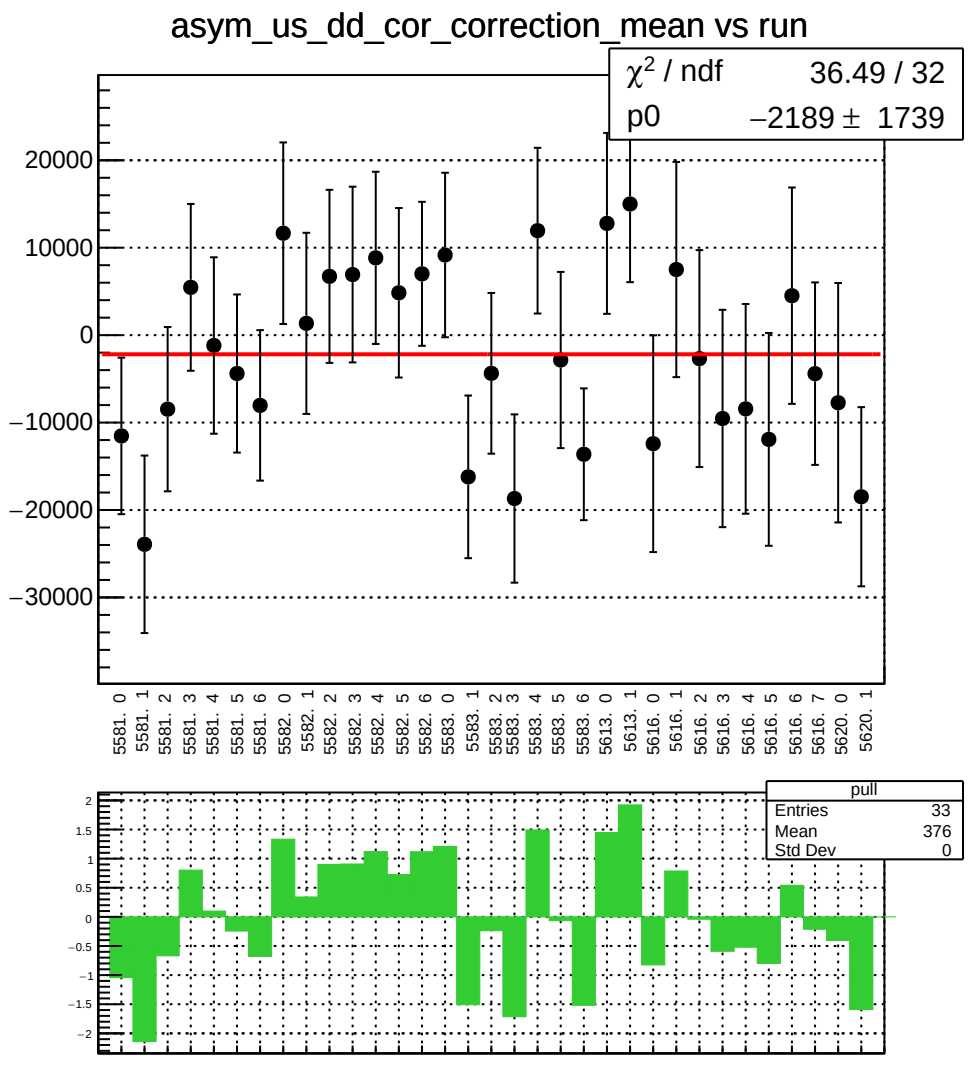

pull1D
Entries 33
Mean −0.001515
Std Dev 1.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

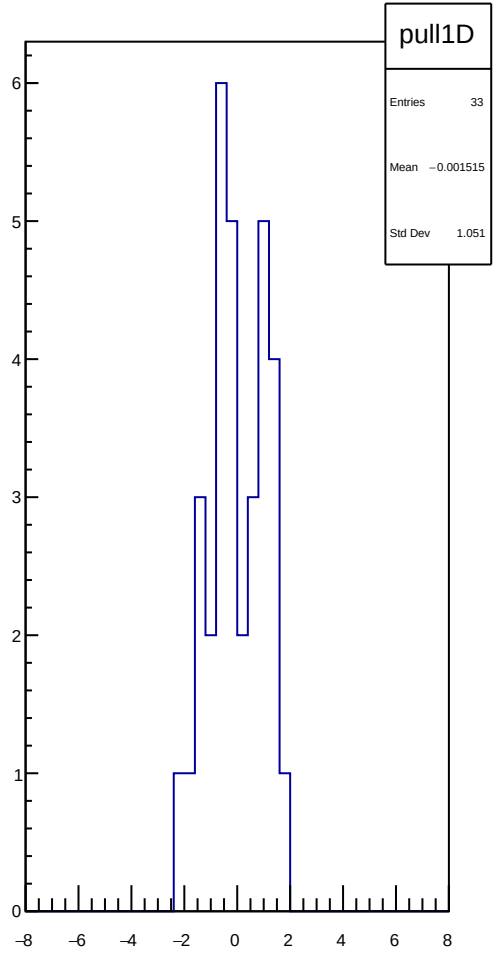

asym_us_dd_reg_correction_rms vs run
χ² / ndf 8685 / 32
p0 986.2 ± 1.23
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

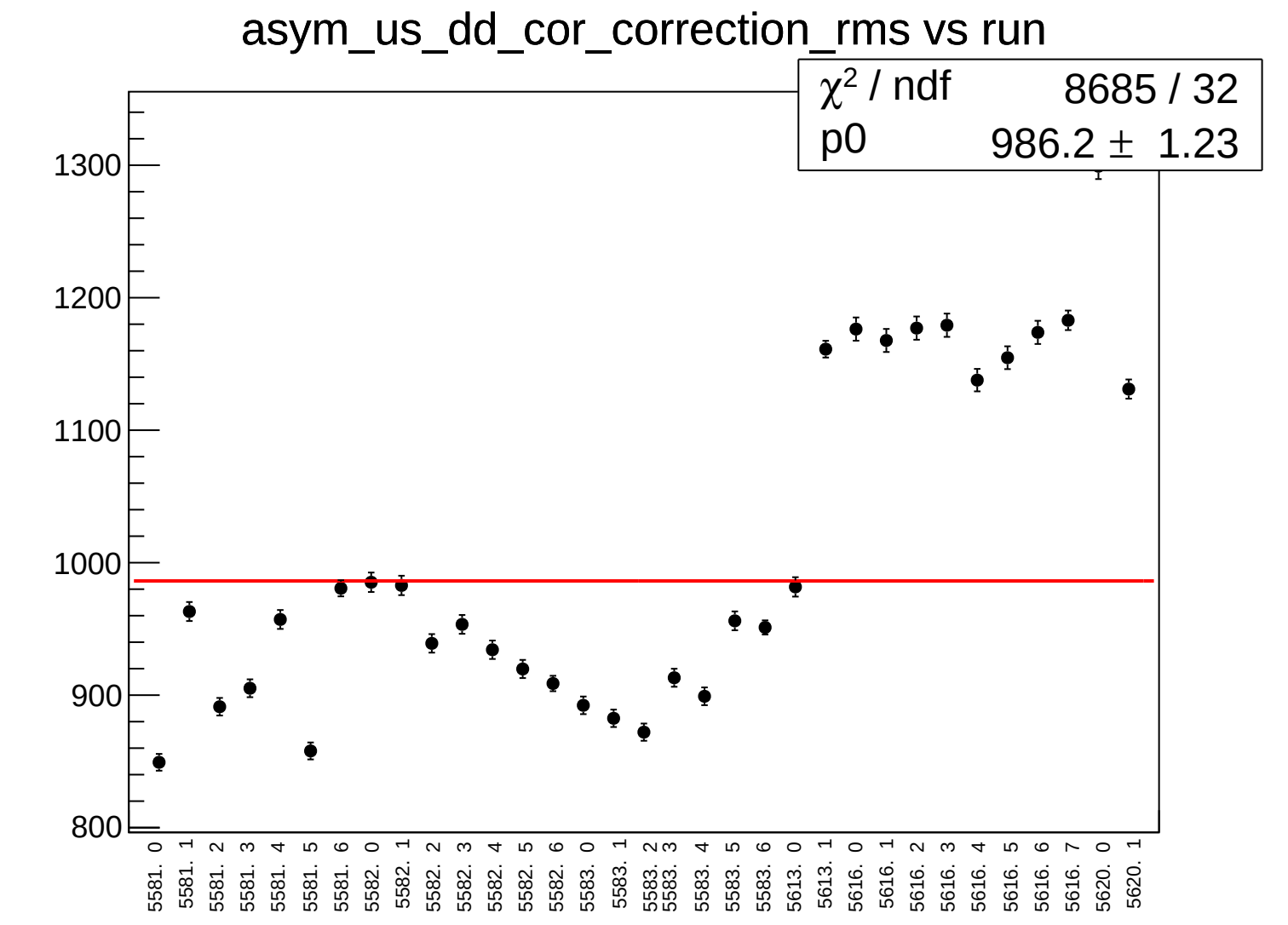

cor_asym_us_dd_mean vs run
χ² / ndf 37.03 / 32
p0 920.1± 1327
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 91.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

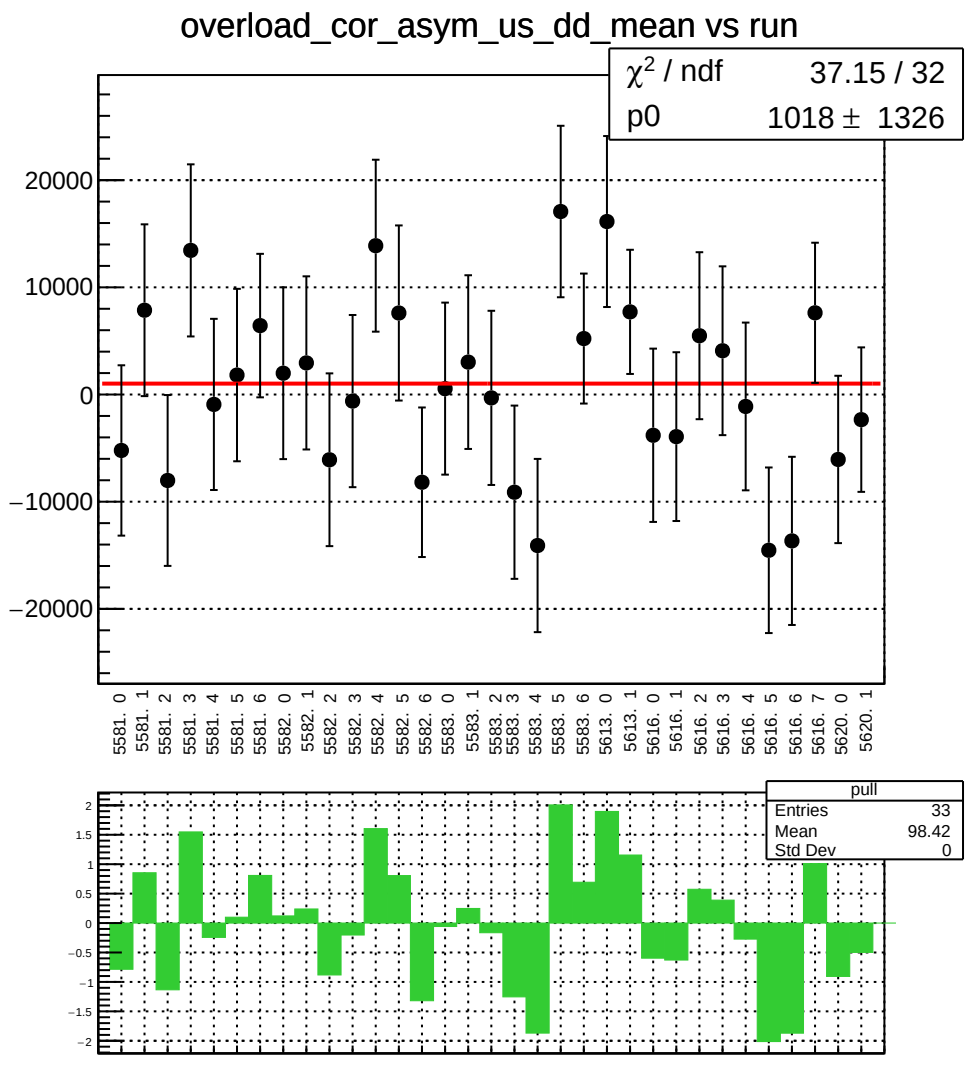

pull1D
Entries 33
Mean −0.0203
Std Dev 1.059
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

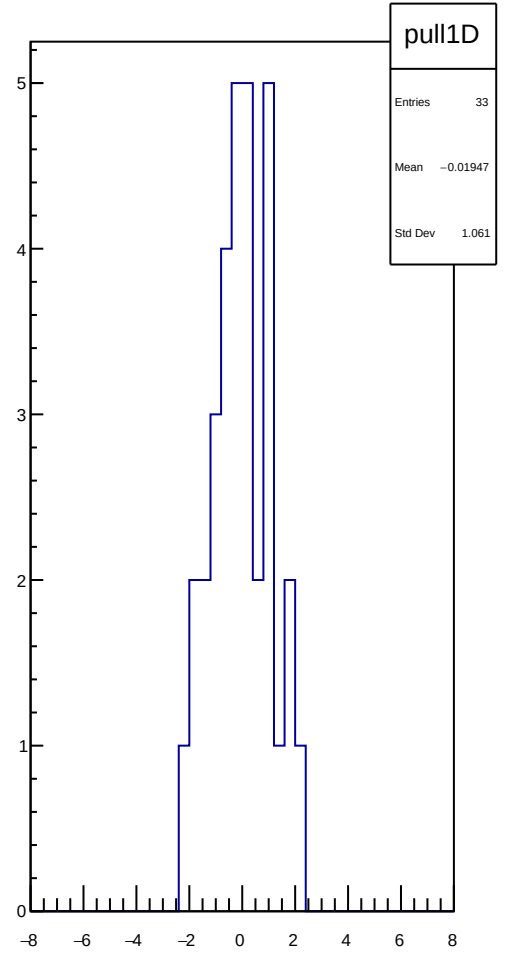

cor_asym_us_dd_rms vs run
χ² / ndf 125.5 / 32
p0 757.5 ± 0.9382
780
770
760
750
740
730
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

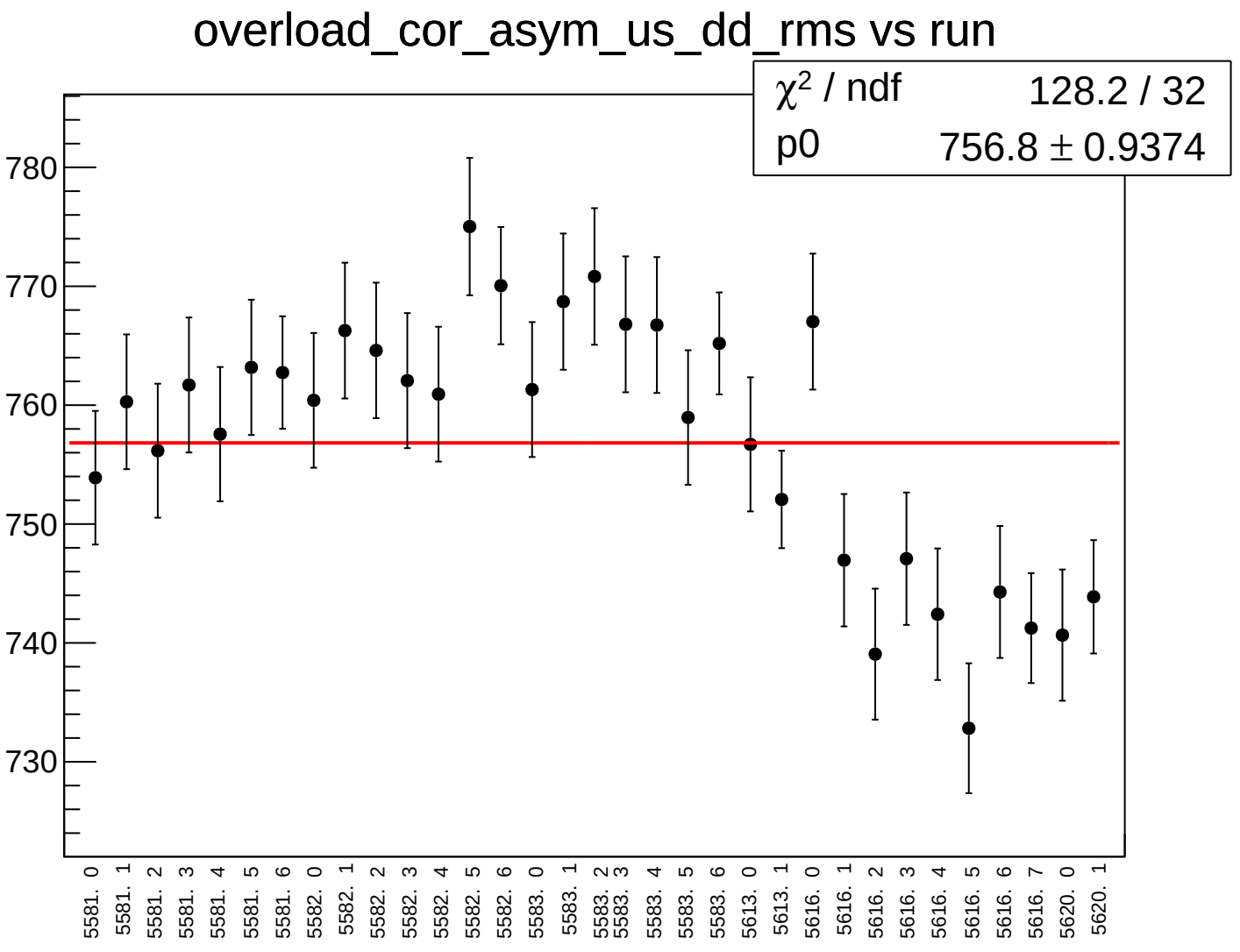

asym_us_dd_cor_correction_mean vs run
χ² / ndf 36.49 / 32
p0 −2189 ± 1739
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 376
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

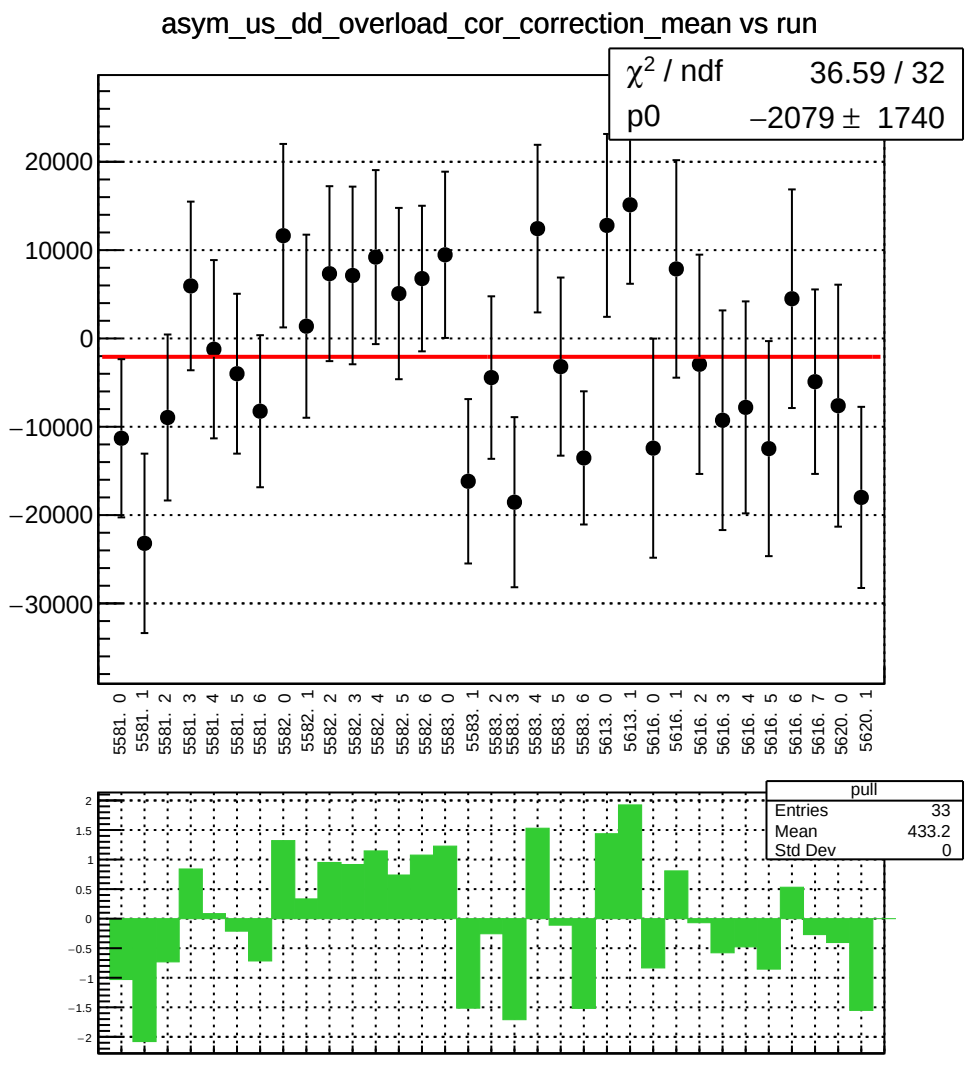

pull1D
Entries 33
Mean −0.001515
Std Dev 1.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

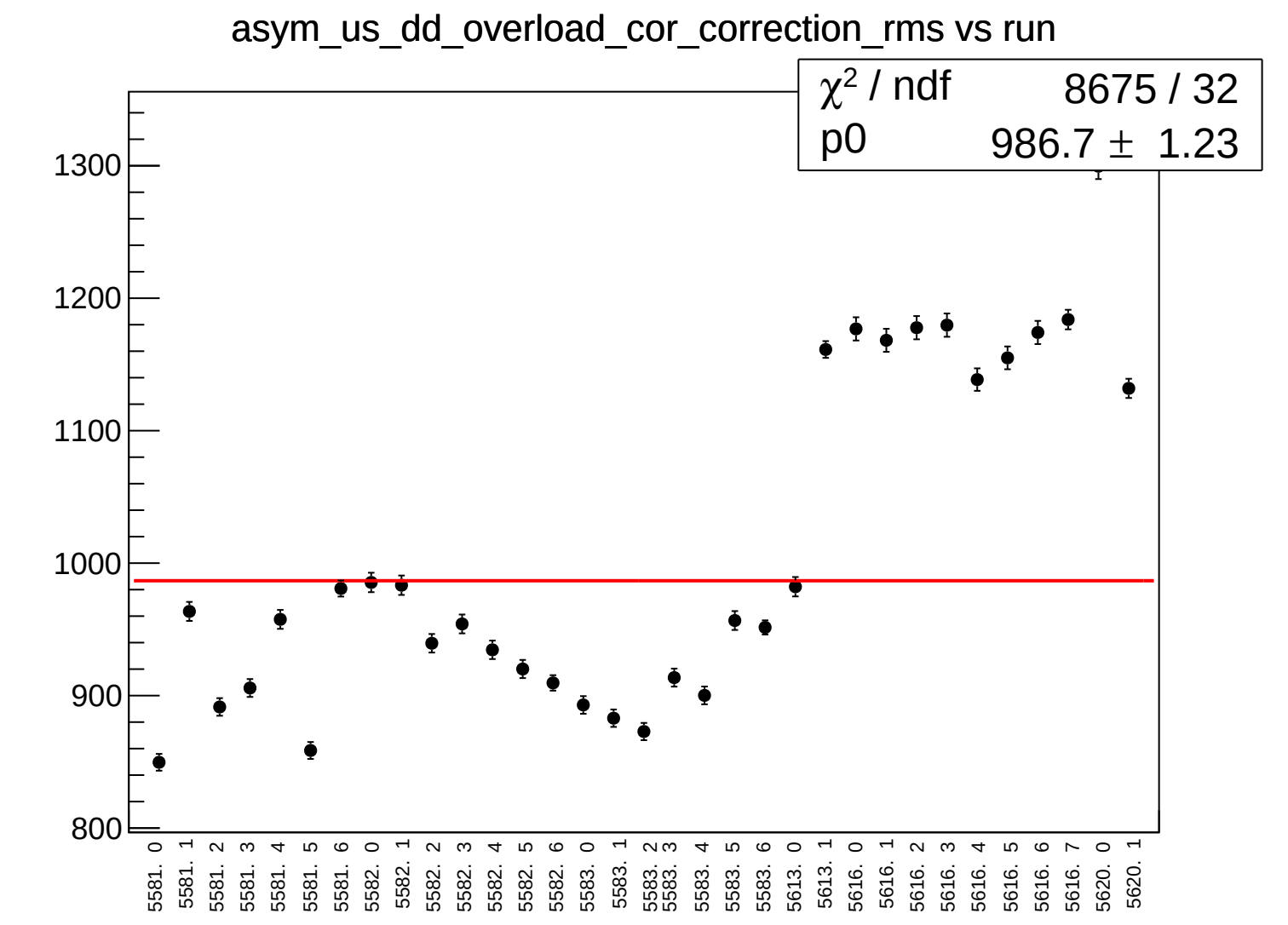

asym_us_dd_cor_correction_rms vs run
χ² / ndf 8685 / 32
p0 986.2 ± 1.23
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

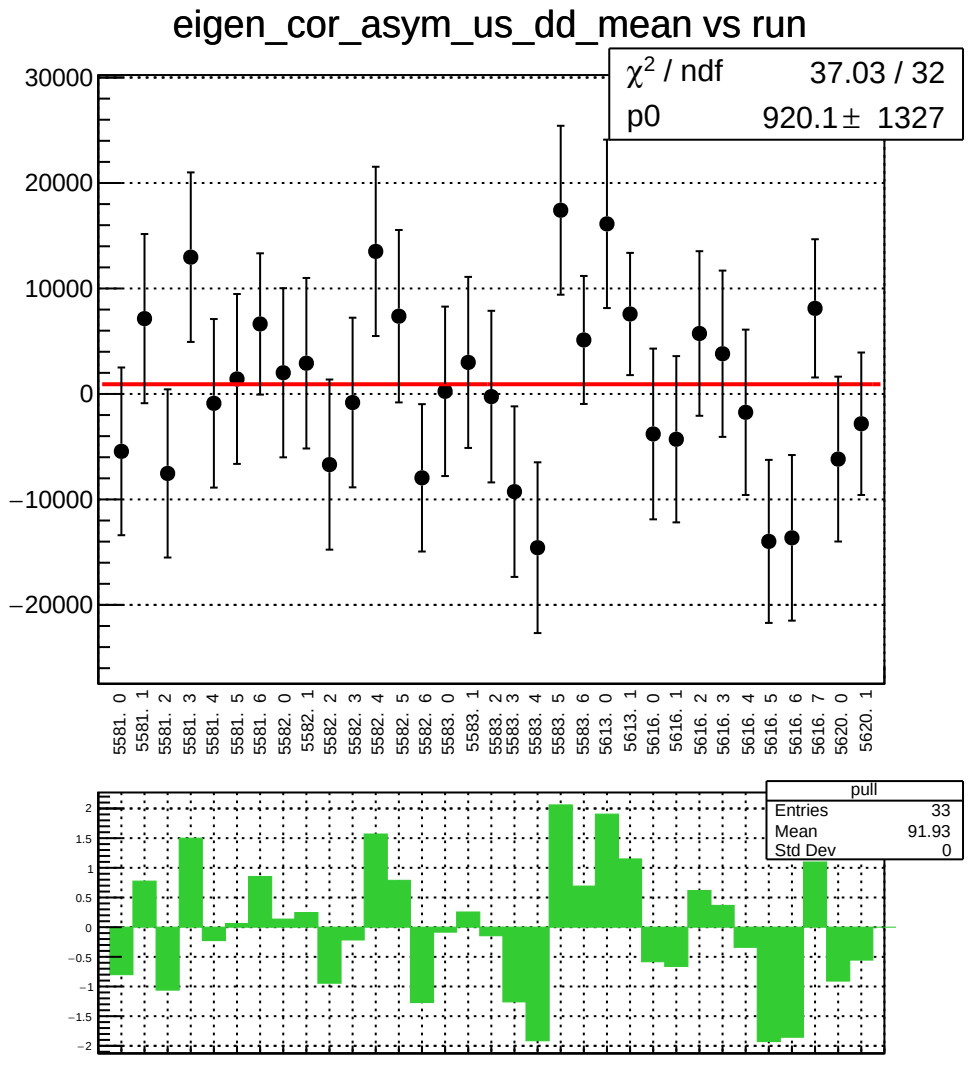

overload_cor_asym_us_dd_mean vs run
χ² / ndf 37.15 / 32
p0 1018 ± 1326
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 98.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

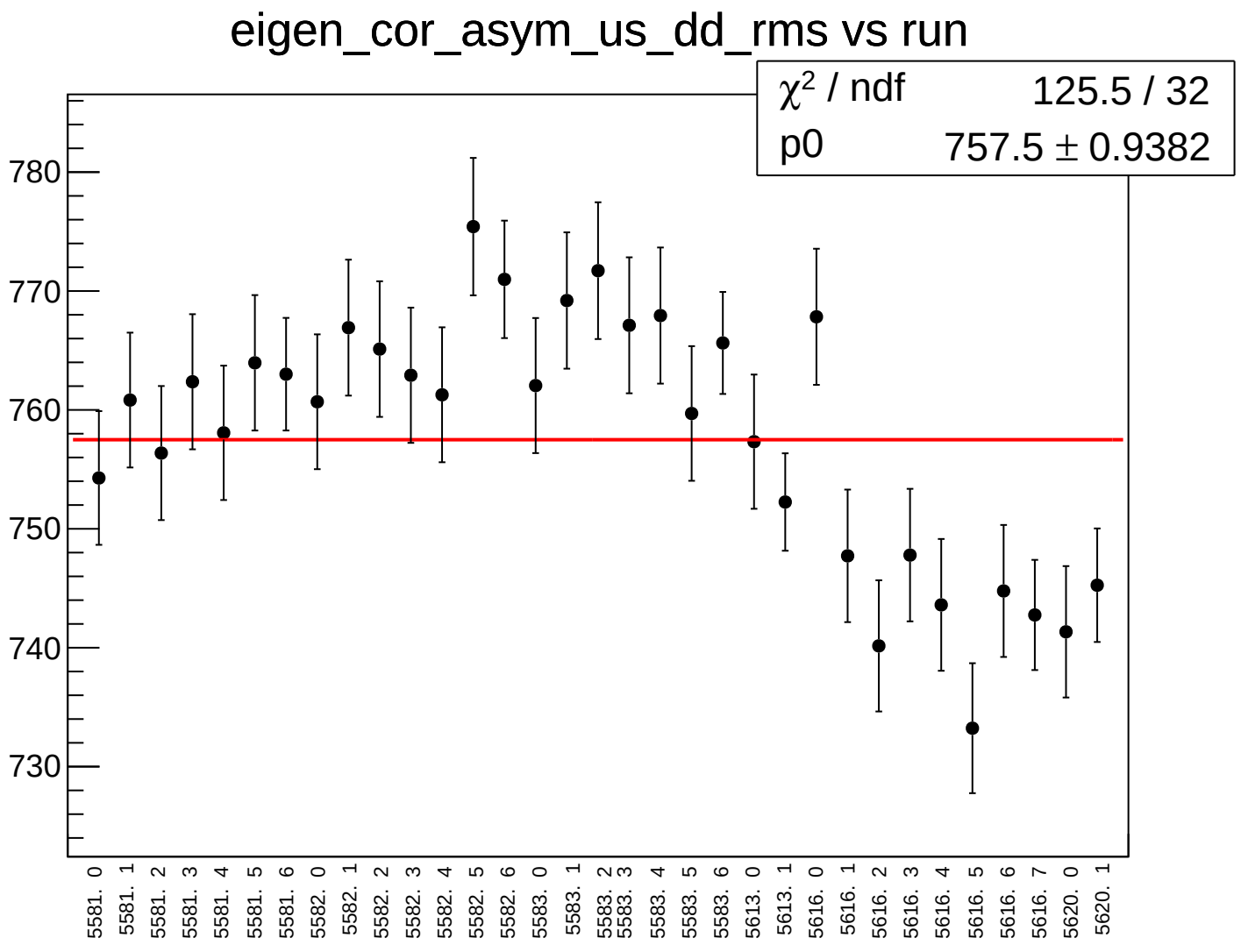

pull1D
Entries 33
Mean −0.01947
Std Dev 1.061
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

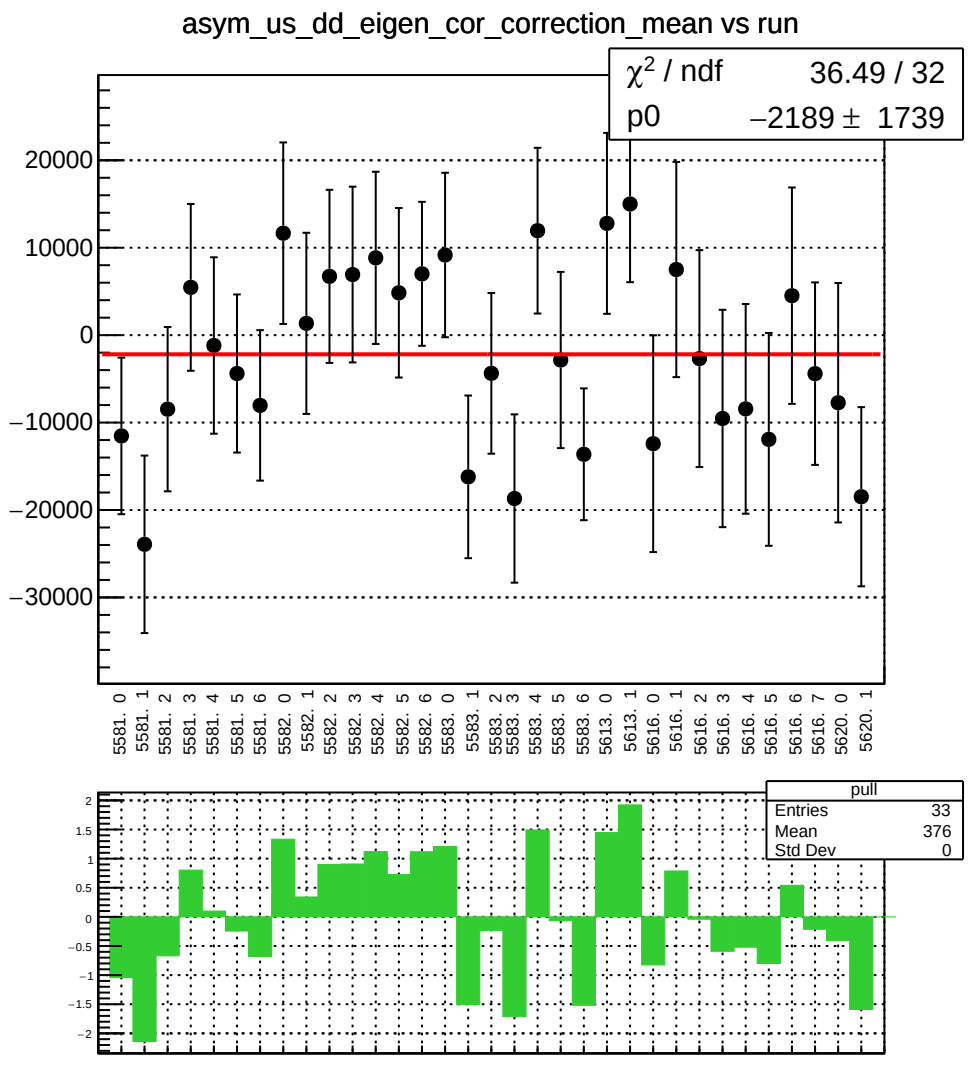

overload_cor_asym_us_dd_rms vs run
χ² / ndf 128.2 / 32
p0 756.8 ± 0.9374
780
770
760
750
740
730
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

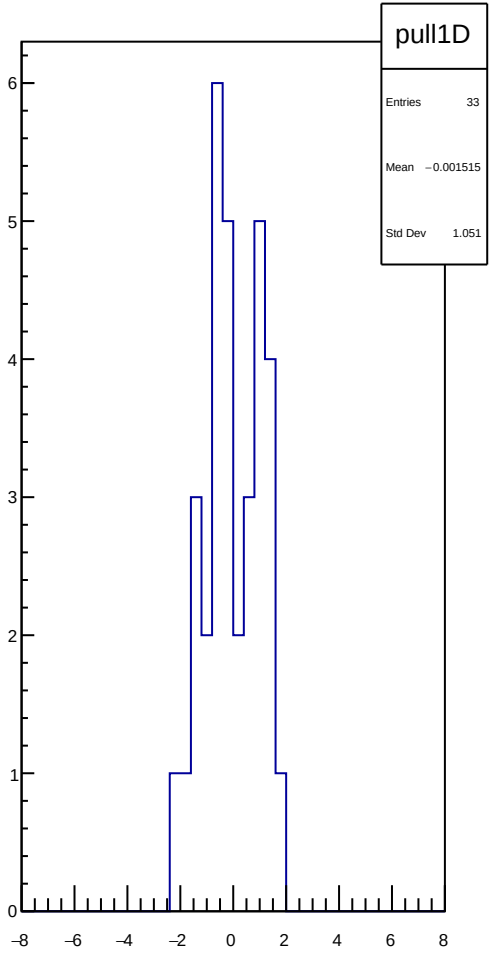

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 36.59 / 32
p0 −2079 ± 1740
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 433.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.001414
Std Dev 1.053
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

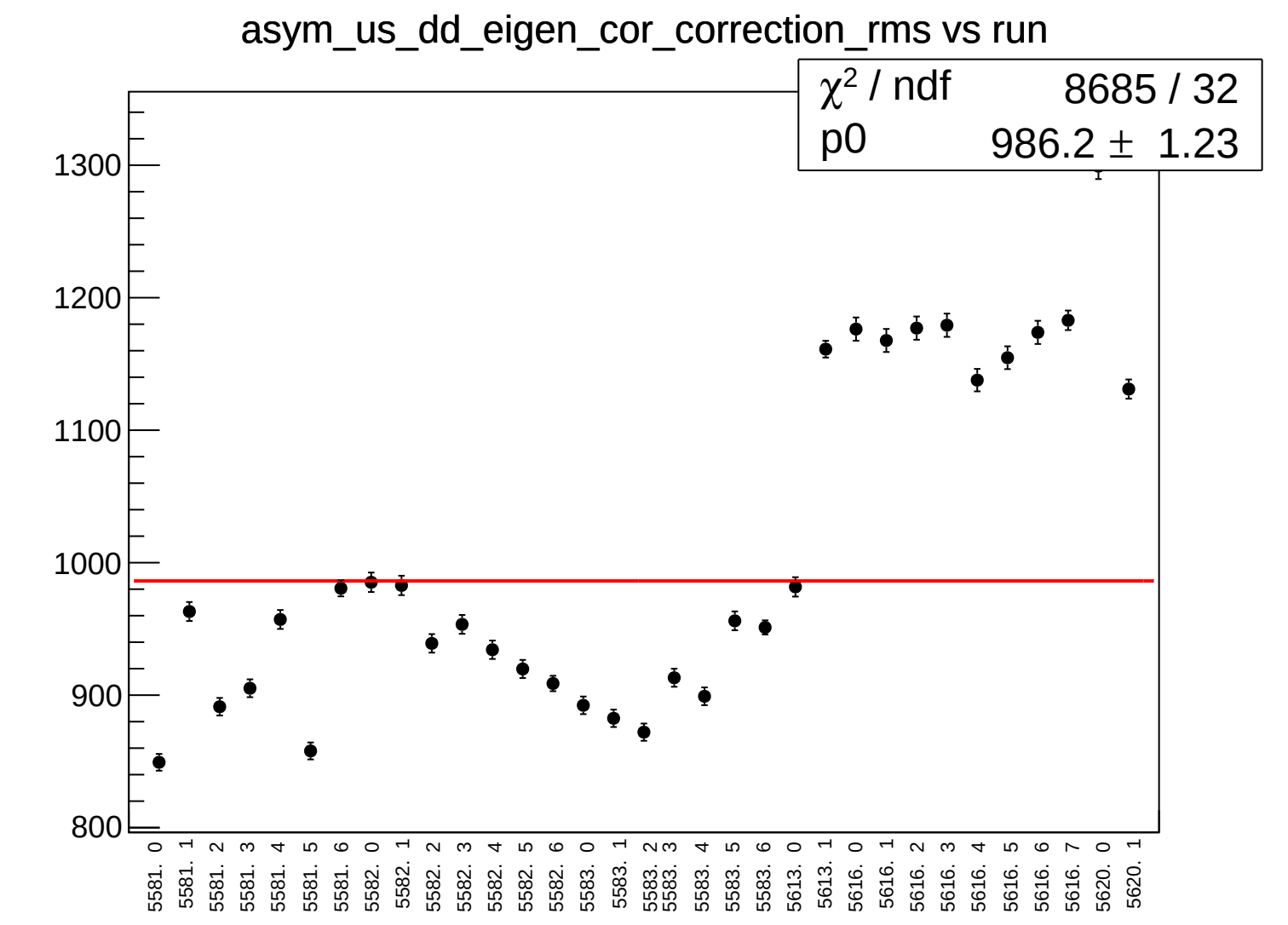

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 8675 / 32
p0 986.7 ± 1.23
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

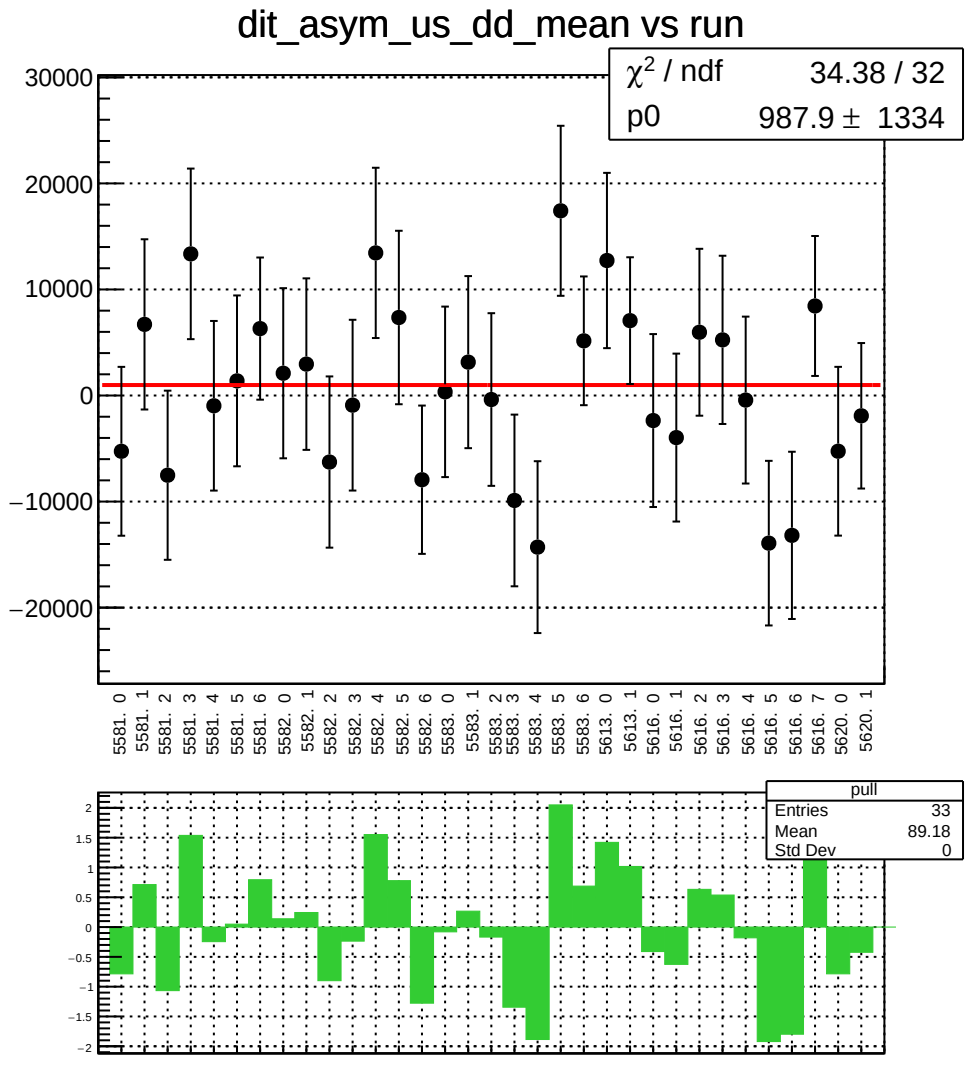

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 37.03 / 32
p0 920.1 ± 1327
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 91.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.0203
Std Dev 1.059
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

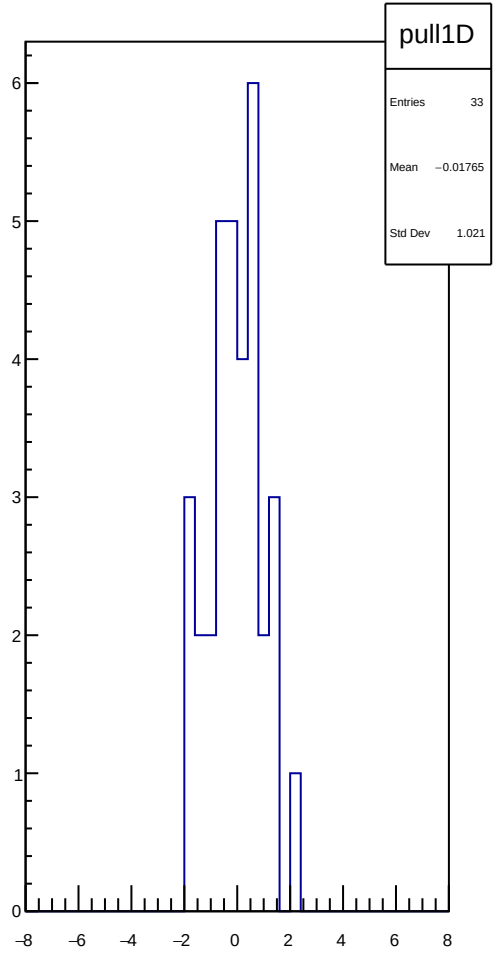

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 125.5 / 32
p0 757.5 ± 0.9382
780
770
760
750
740
730
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

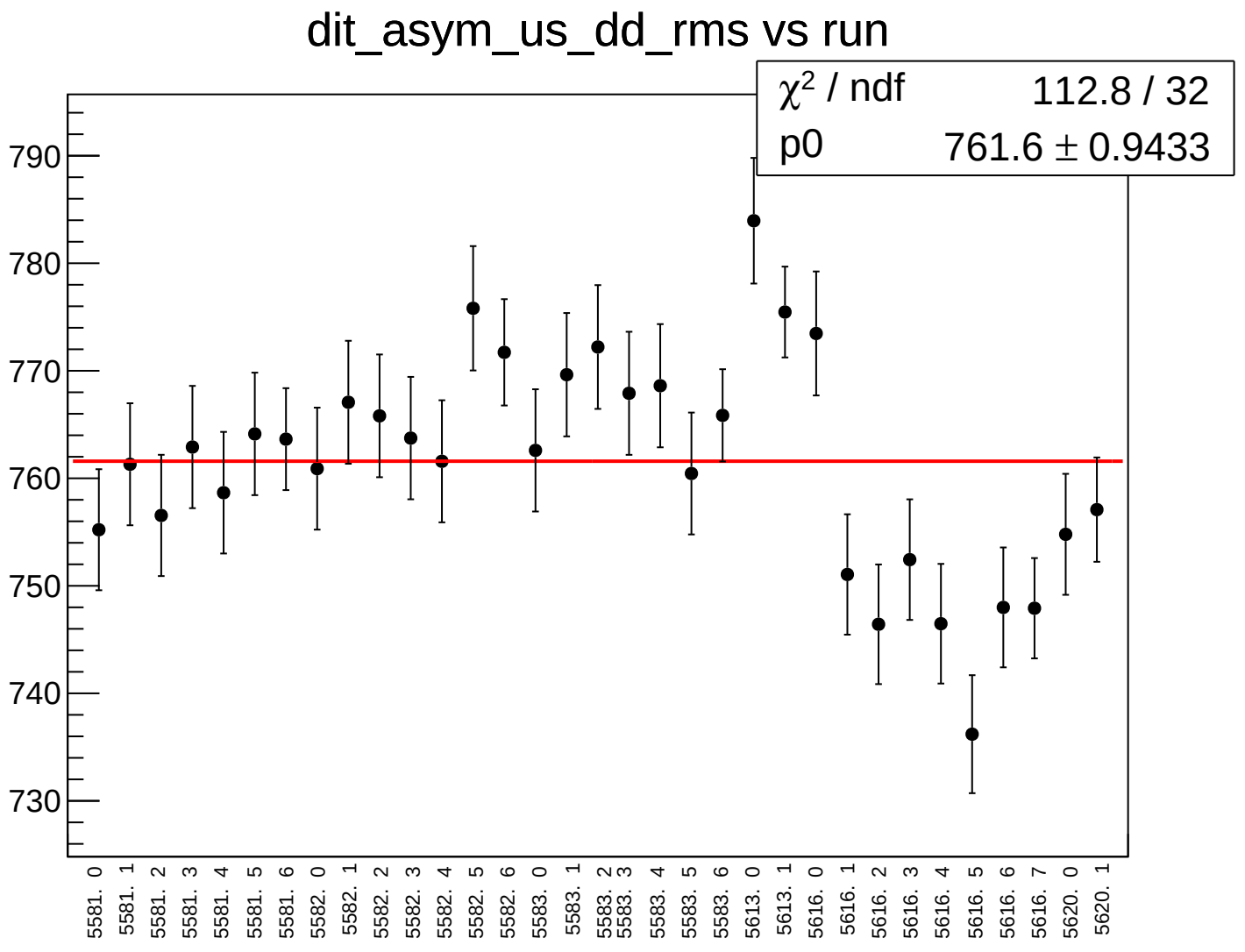

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 36.49 / 32
p0 −2189 ± 1739
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 376
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

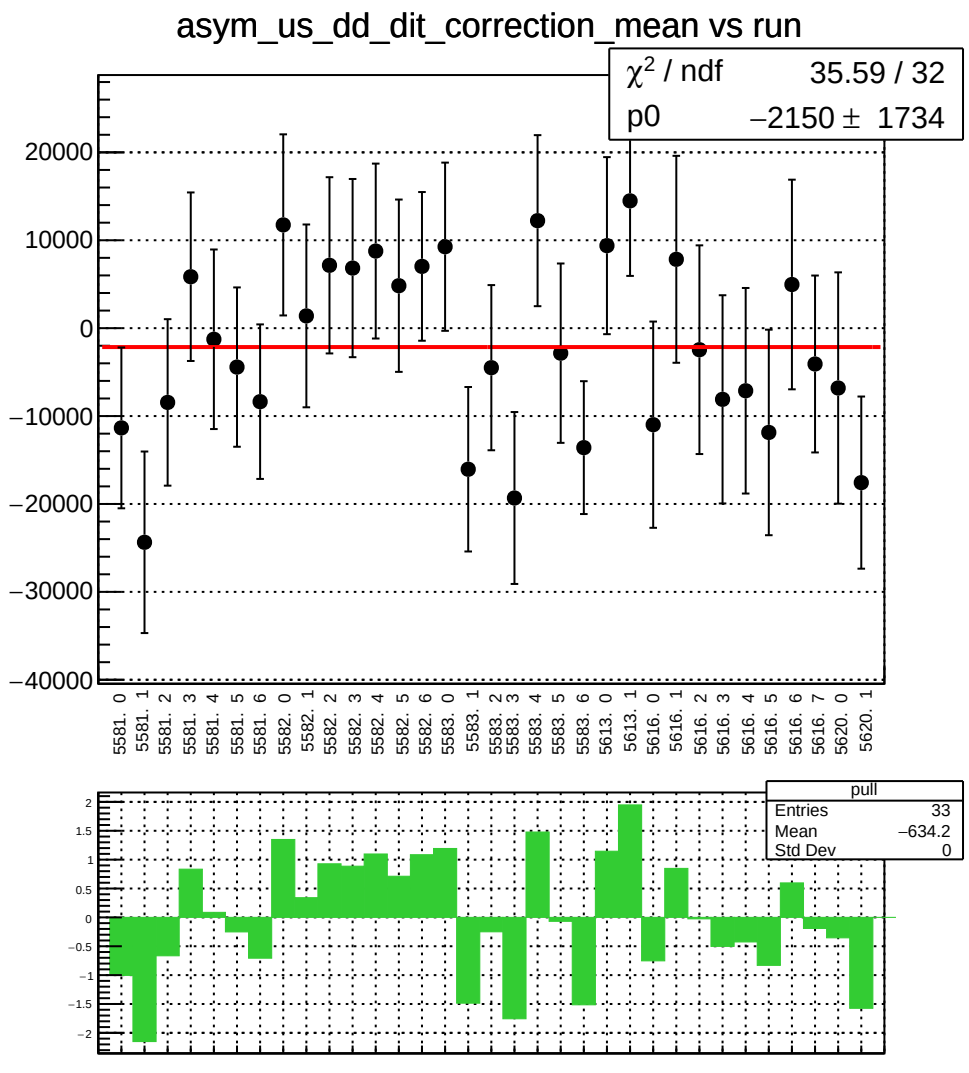

pull1D
Entries 33
Mean −0.001515
Std Dev 1.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

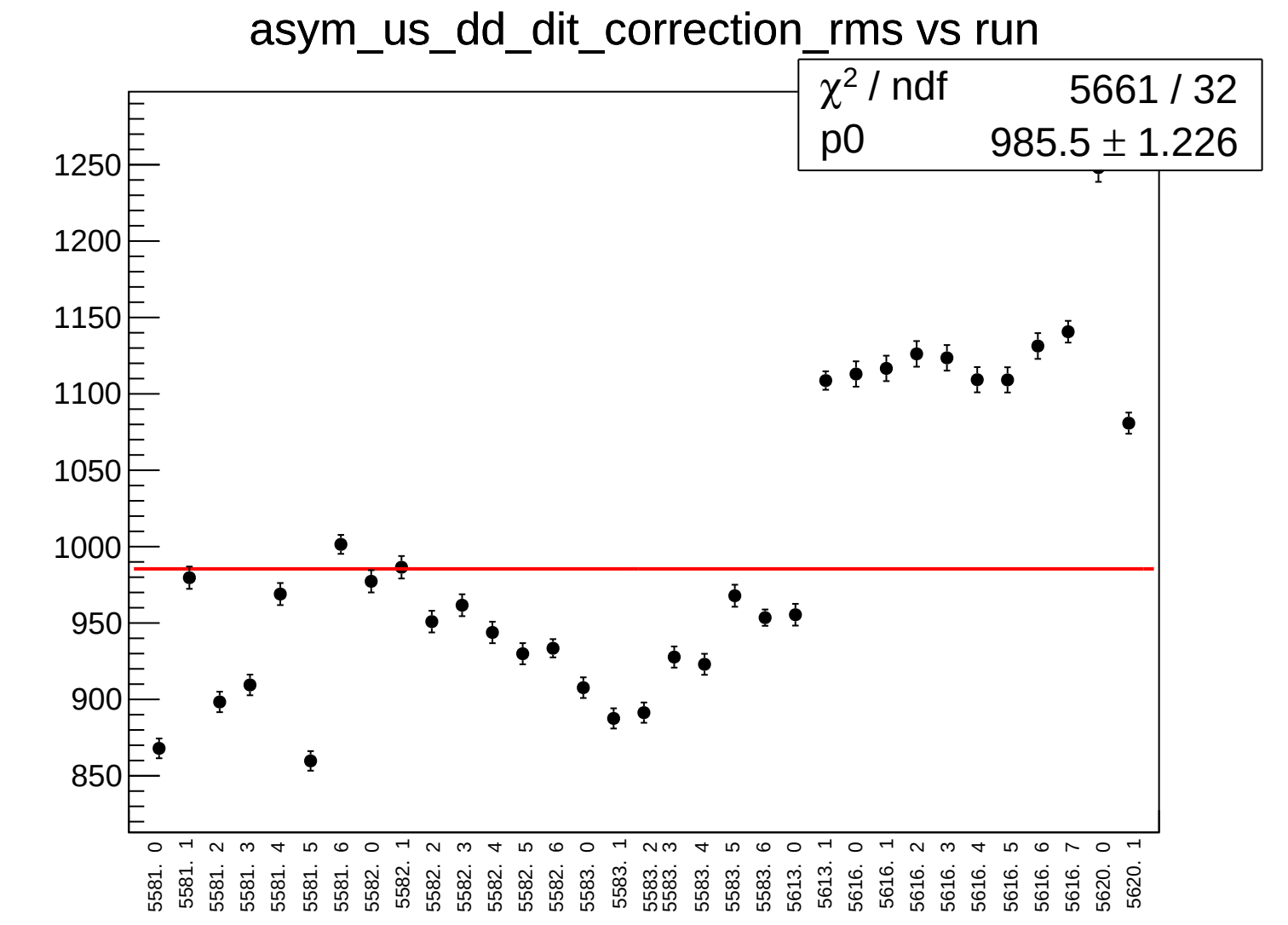

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 8685 / 32
p0 986.2 ± 1.23
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

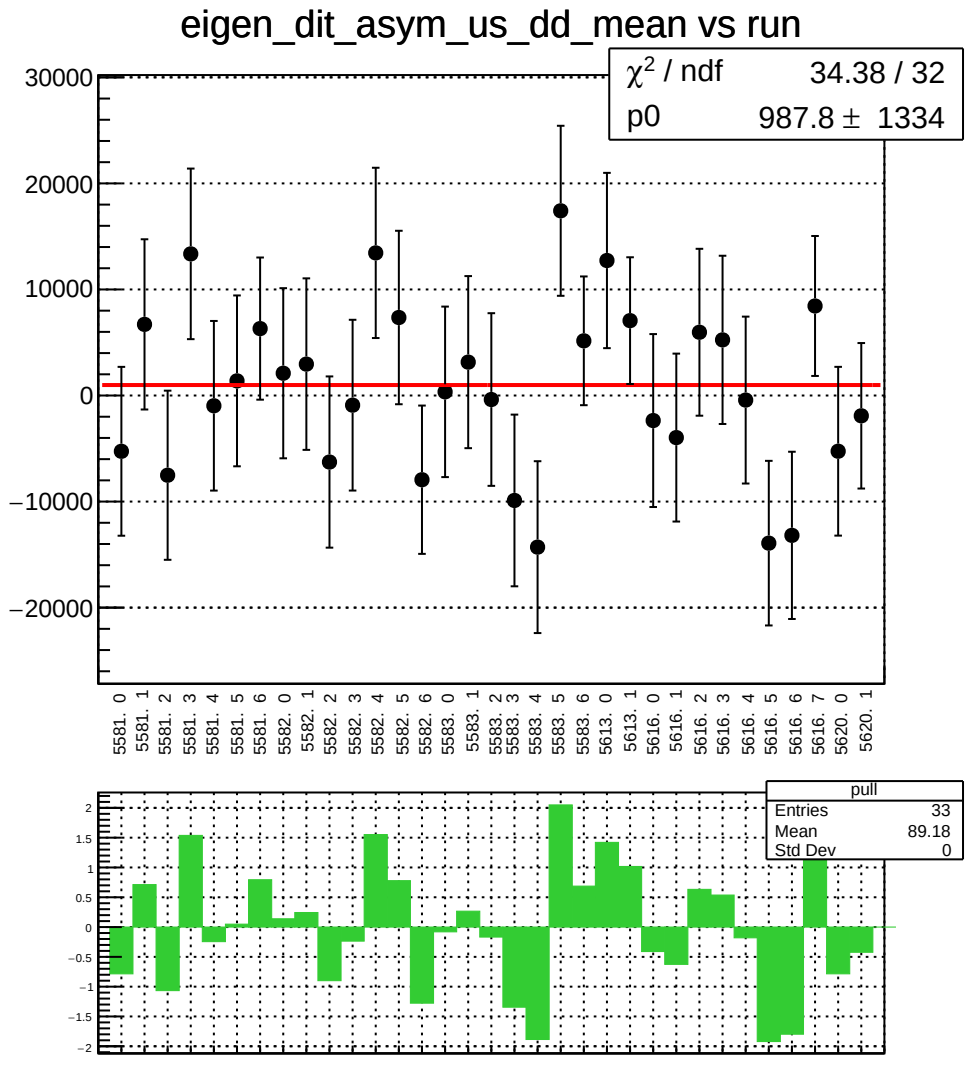

dit_asym_us_dd_mean vs run
χ² / ndf 34.38 / 32
p0 987.9 ± 1334
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 89.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

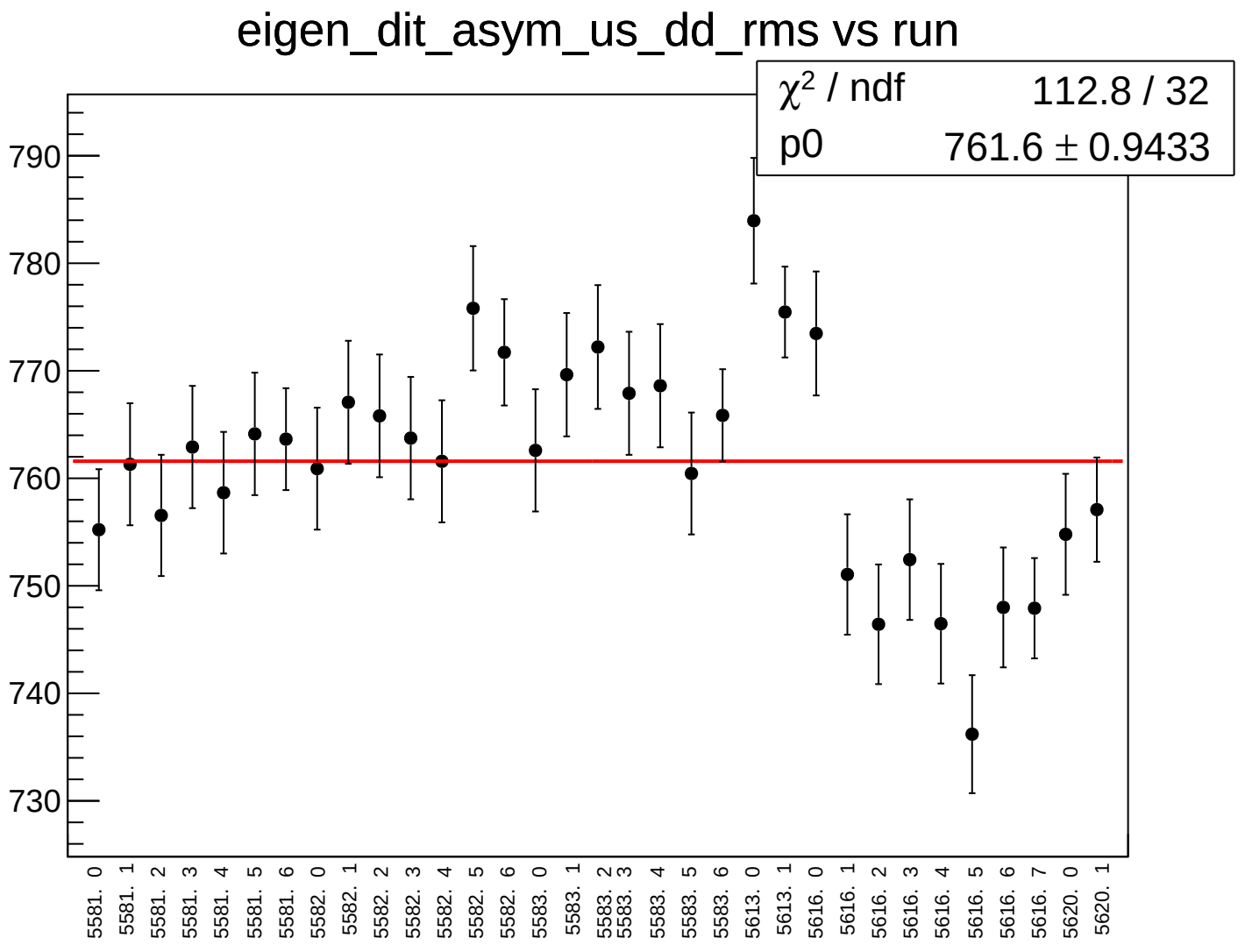

pull1D
Entries 33
Mean −0.01765
Std Dev 1.021
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

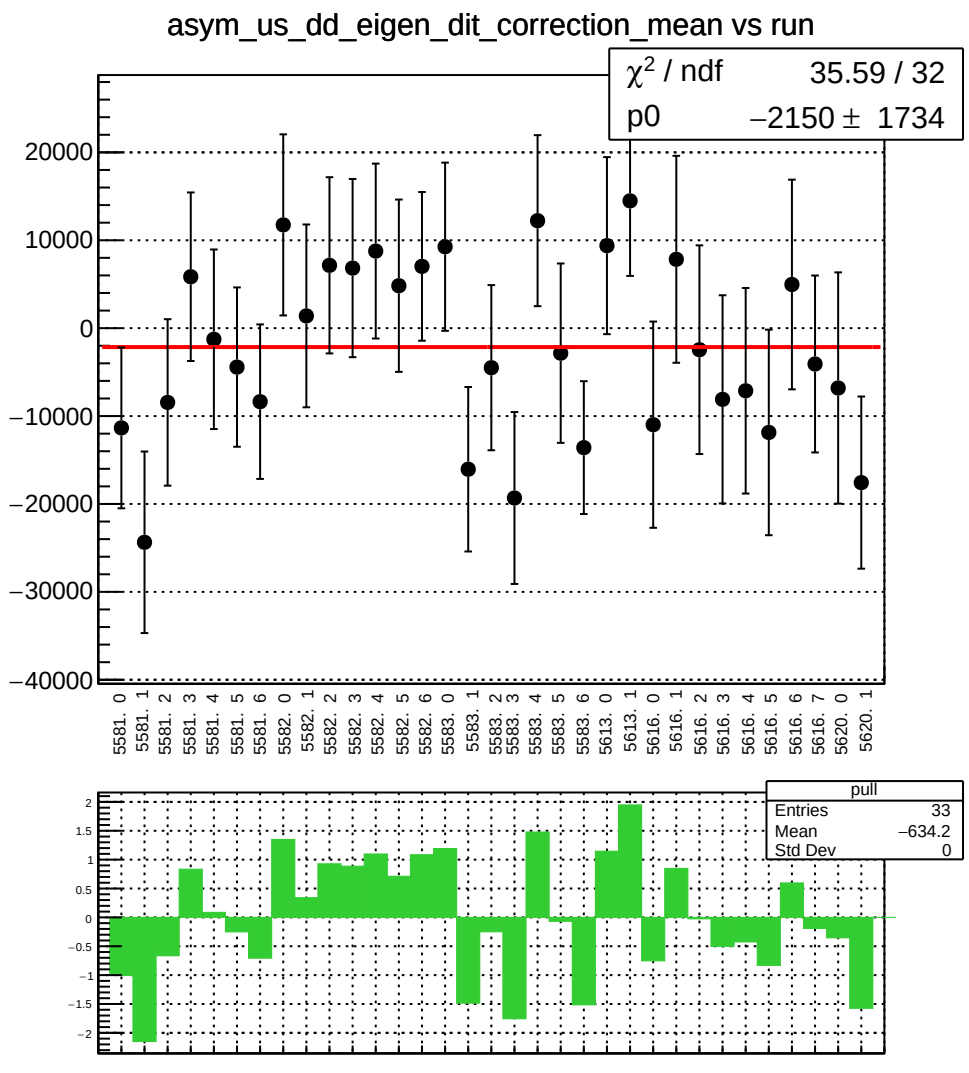

dit_asym_us_dd_rms vs run
χ² / ndf 112.8 / 32
p0 761.6 ± 0.9433
790
780
770
760
750
740
730
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

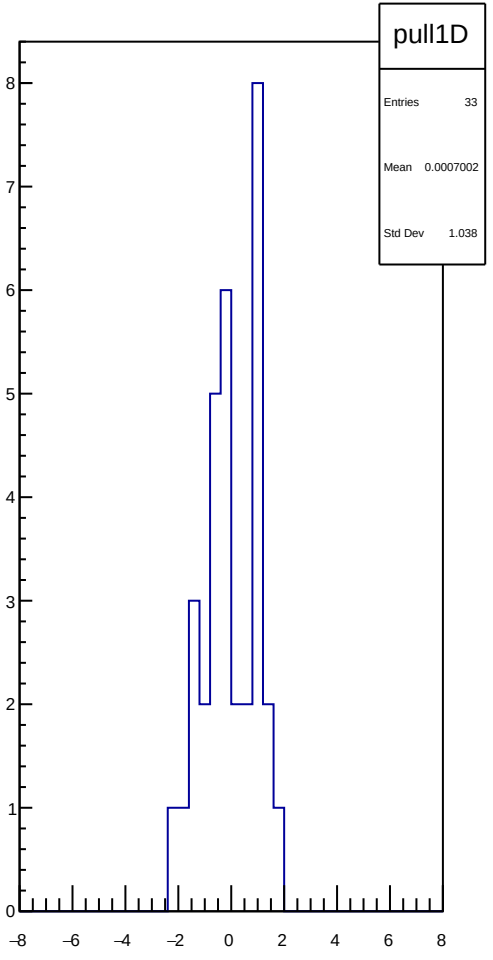

asym_us_dd_dit_correction_mean vs run
χ² / ndf 35.59 / 32
p0 −2150 ± 1734
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −634.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.0007002
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

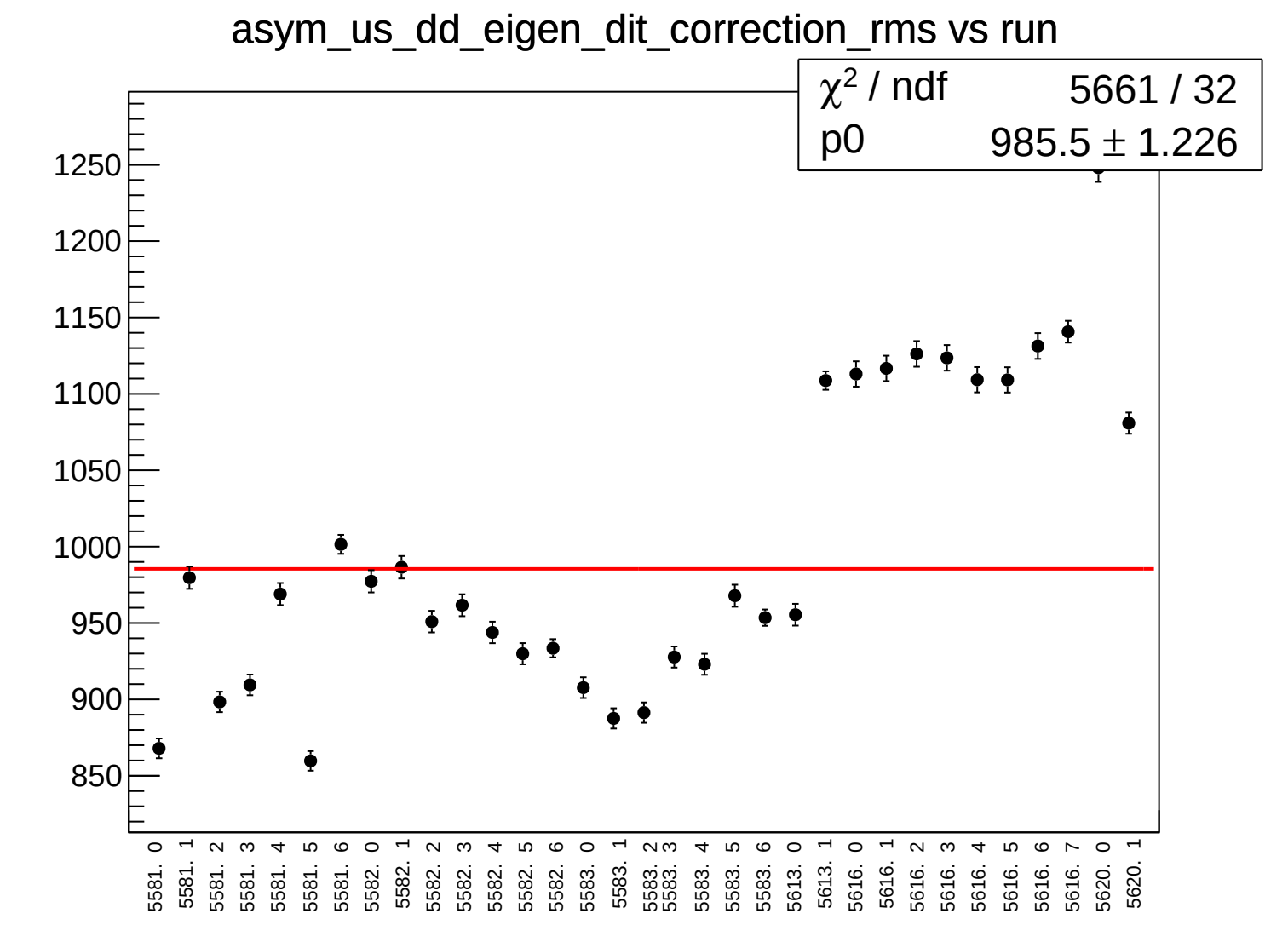

asym_us_dd_dit_correction_rms vs run
χ² / ndf 5661 / 32
p0 985.5 ± 1.226
1250
1200
1150
1100
1050
1000
950
900
850
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

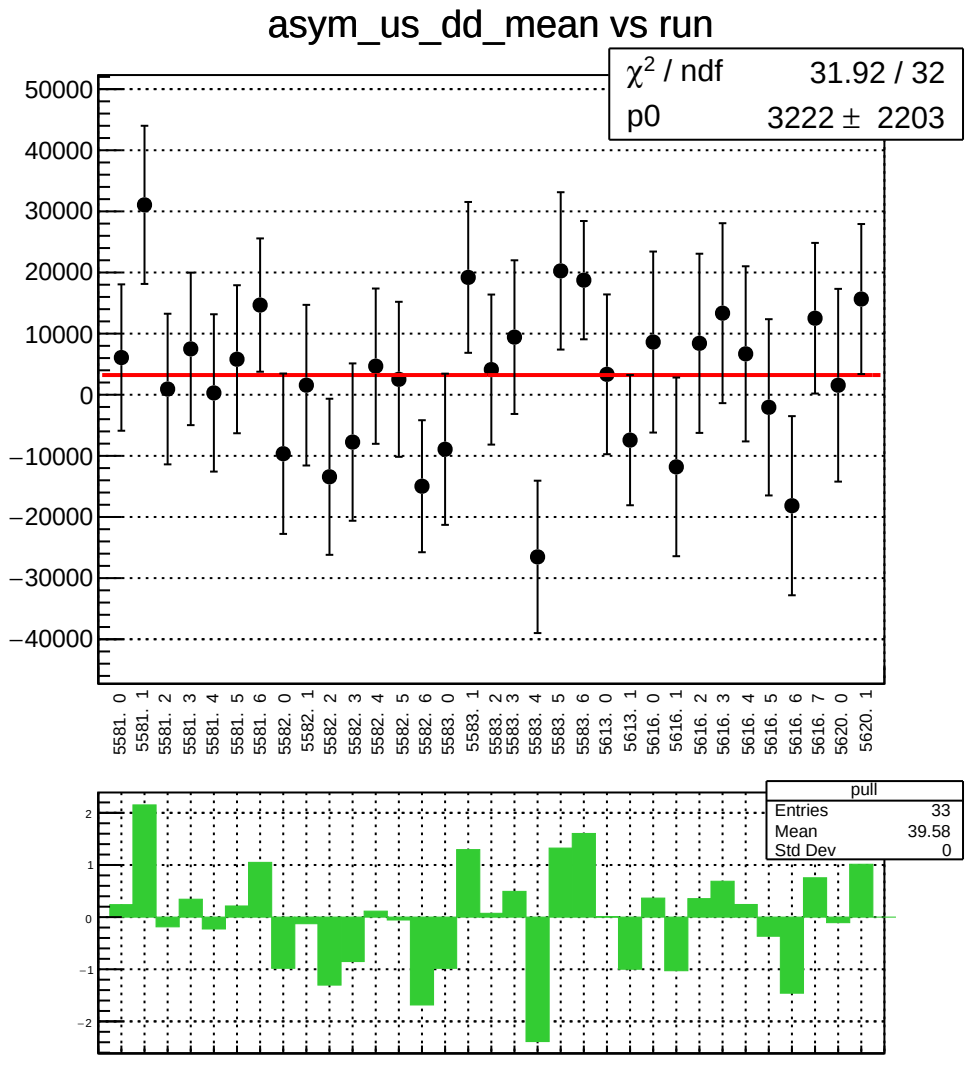

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 34.38 / 32
p0 987.8 ± 1334
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 89.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01765
Std Dev 1.021
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

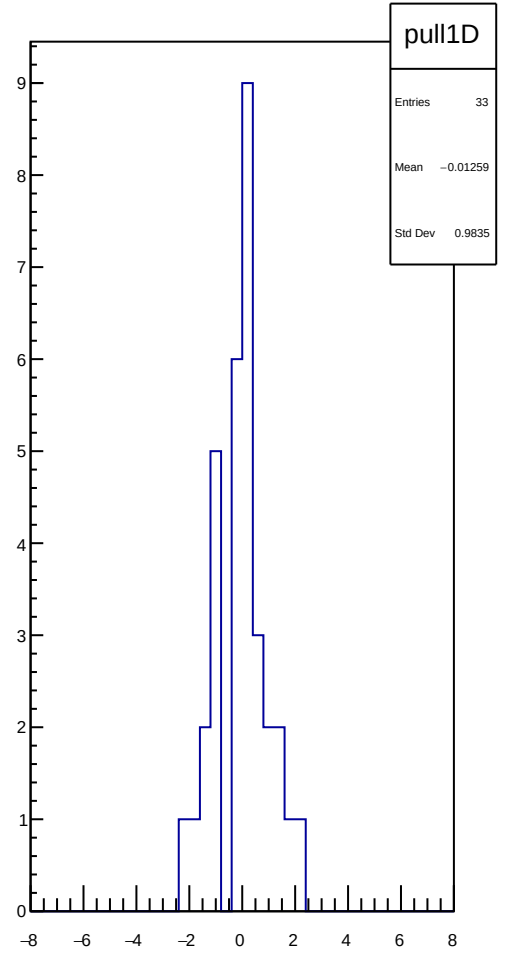

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 112.8 / 32
p0 761.6 ± 0.9433
790
780
770
760
750
740
730
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

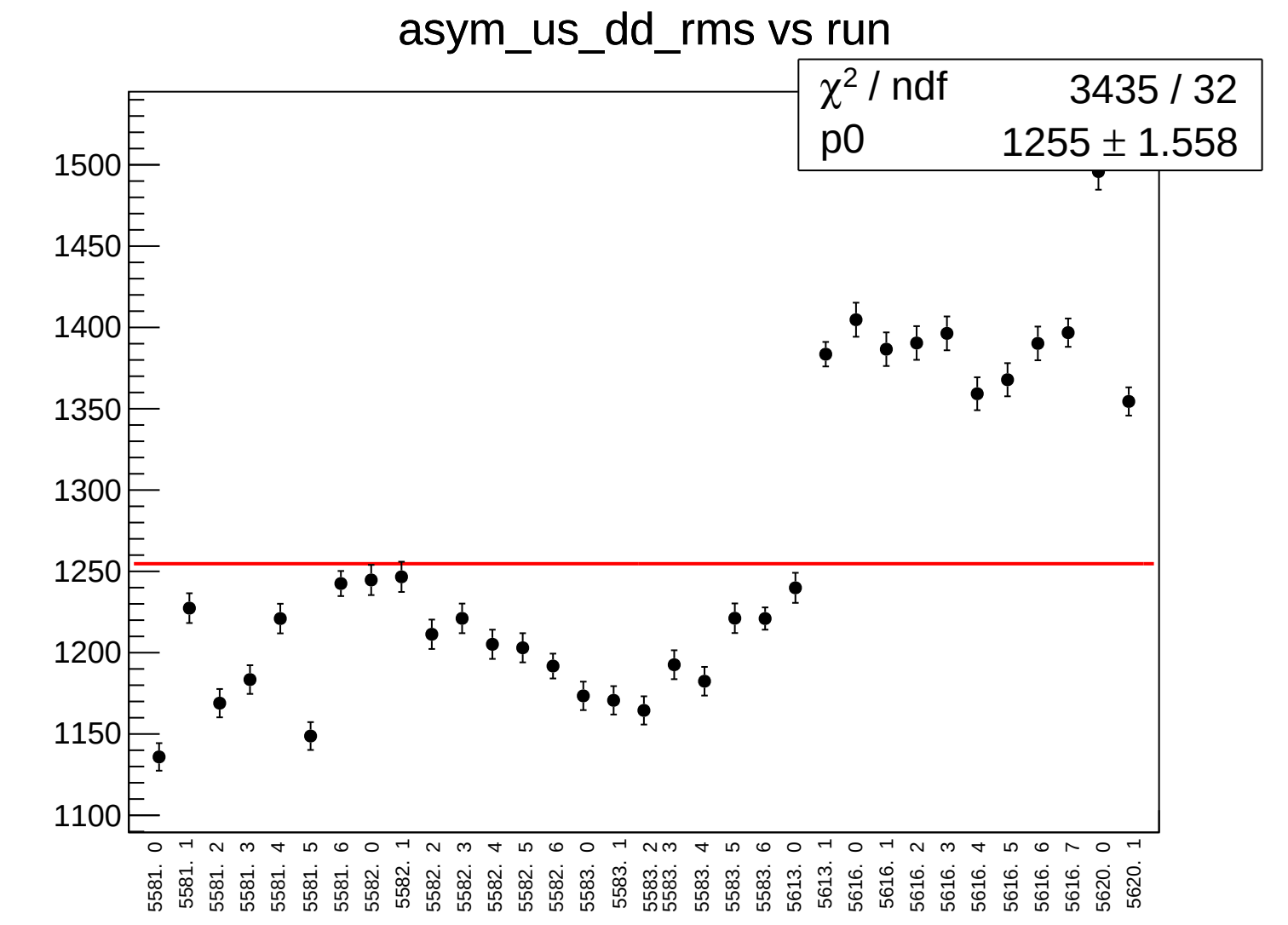

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 35.59 / 32
p0 −2150 ± 1734
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −634.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

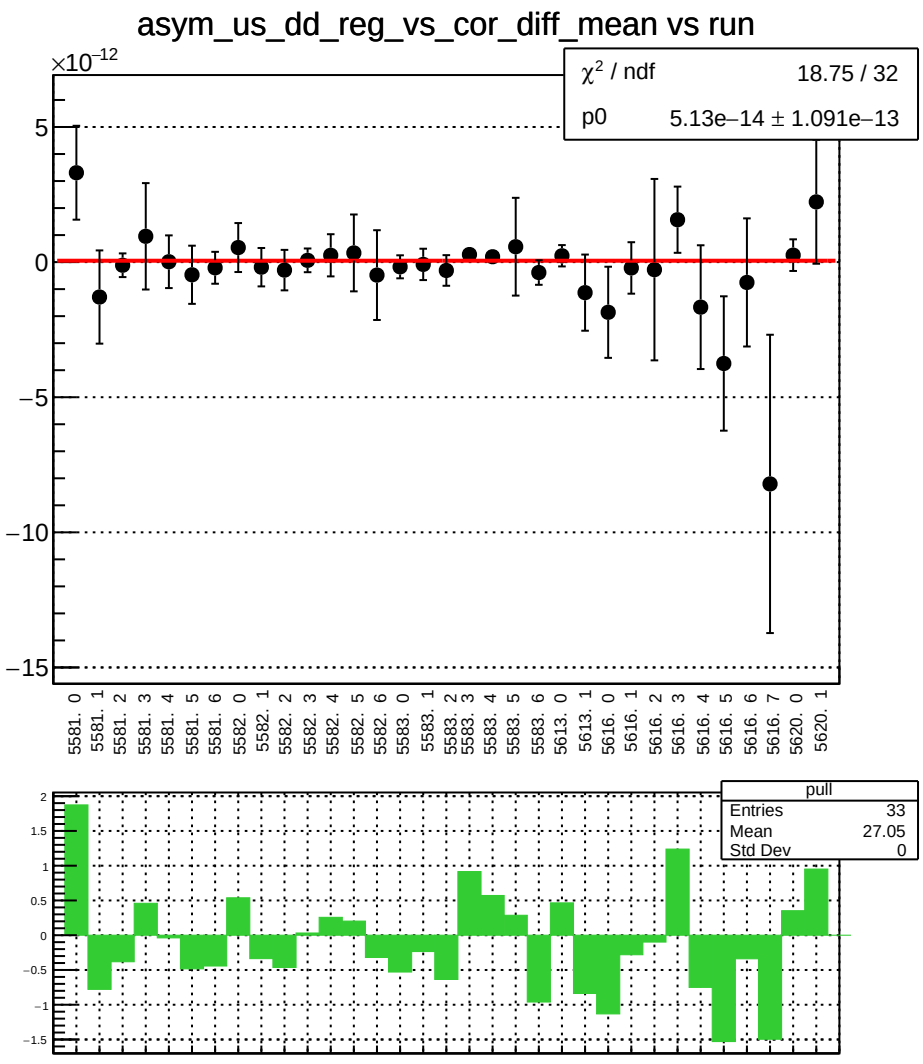

pull1D
Entries 33
Mean 0.0007002
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

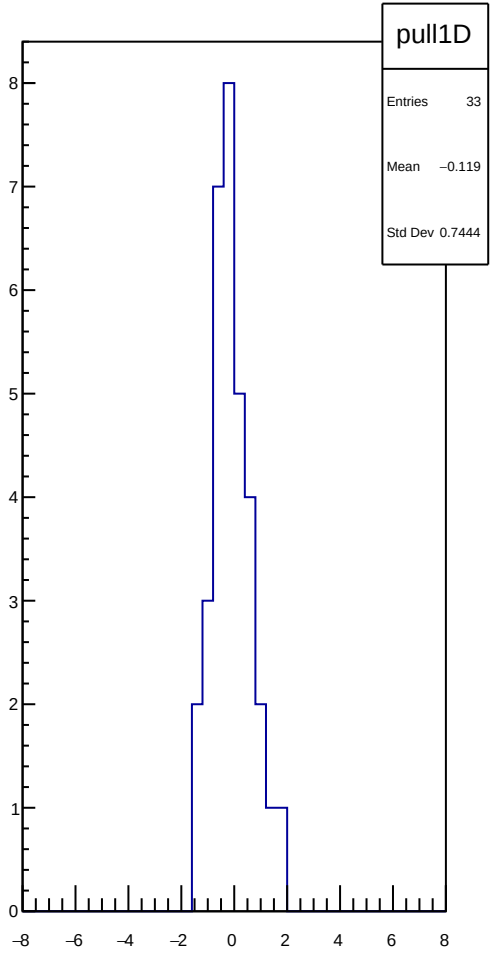

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 5661 / 32
p0 985.5 ± 1.226
1250
1200
1150
1100
1050
1000
950
900
850
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

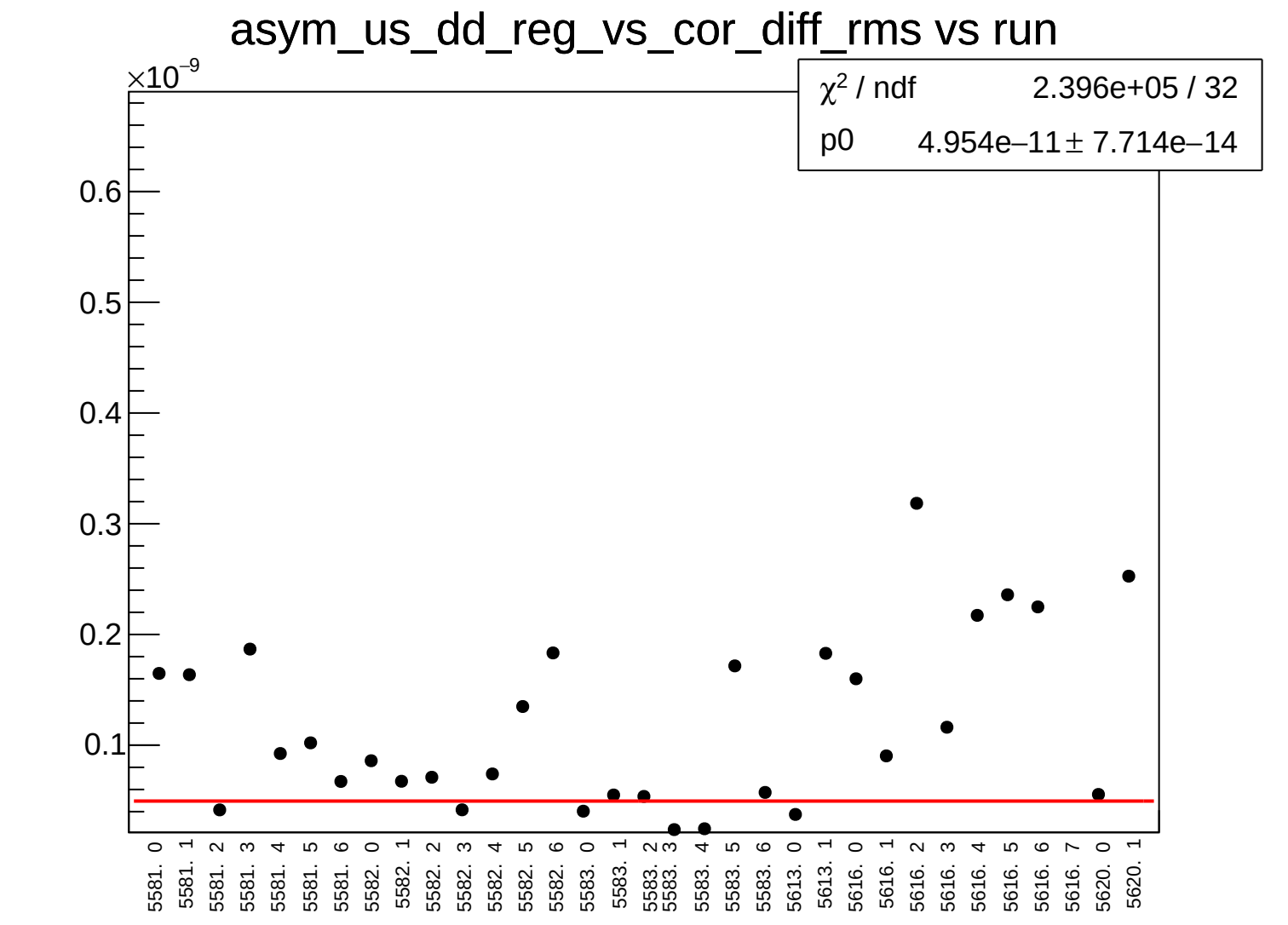

asym_us_dd_mean vs run
χ² / ndf 31.92 / 32
p0 3222 ± 2203
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.58
Std Dev 0
2
1
0
−1
−2

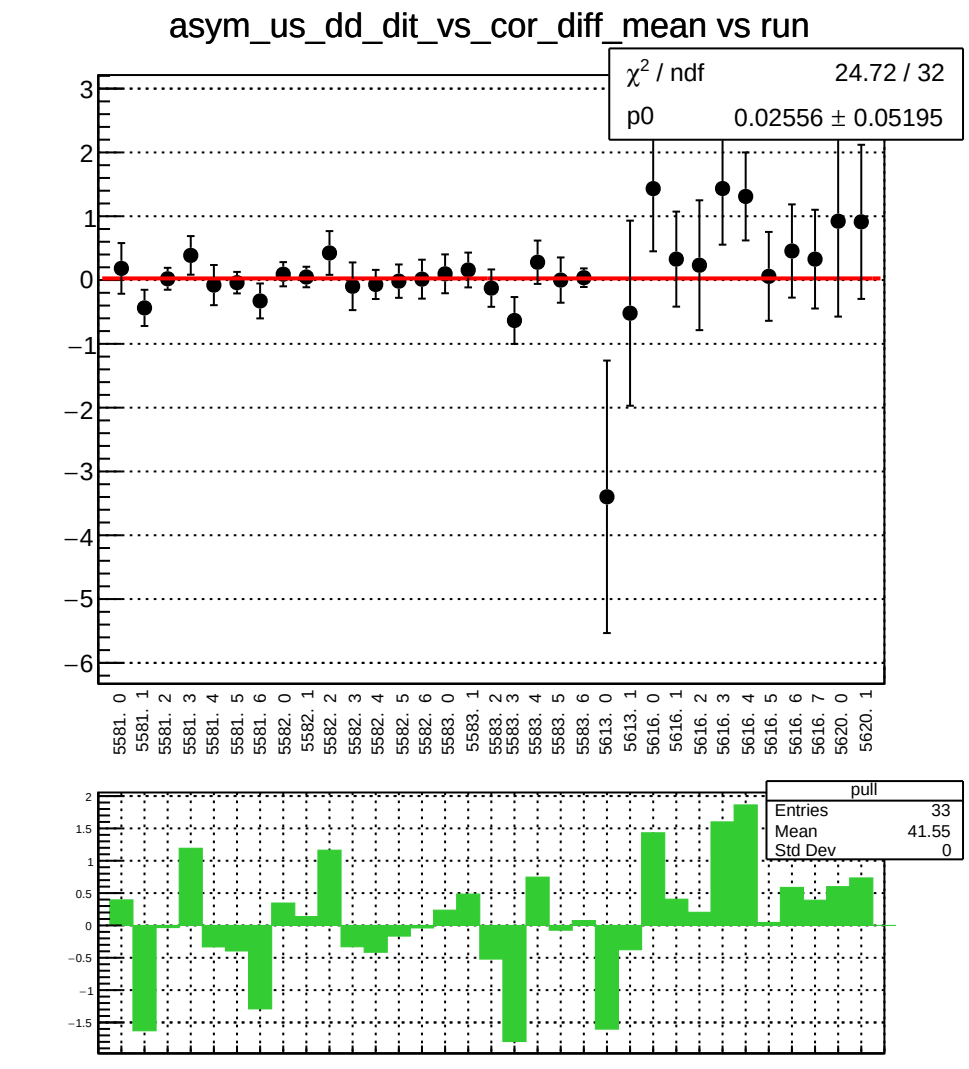

pull1D
Entries 33
Mean −0.01259
Std Dev 0.9835
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

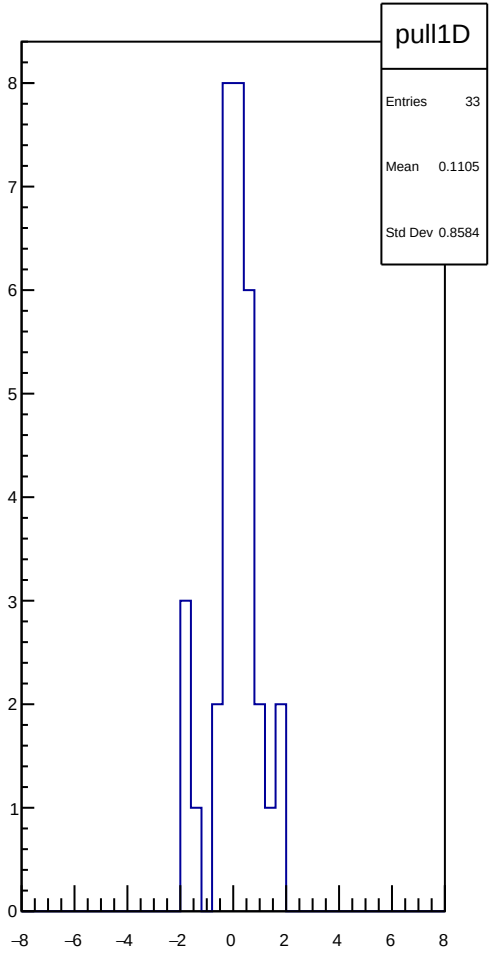

asym_us_dd_rms vs run
χ² / ndf 3435 / 32
p0 1255 ± 1.558
1500
1450
1400
1350
1300
1250
1200
1150
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

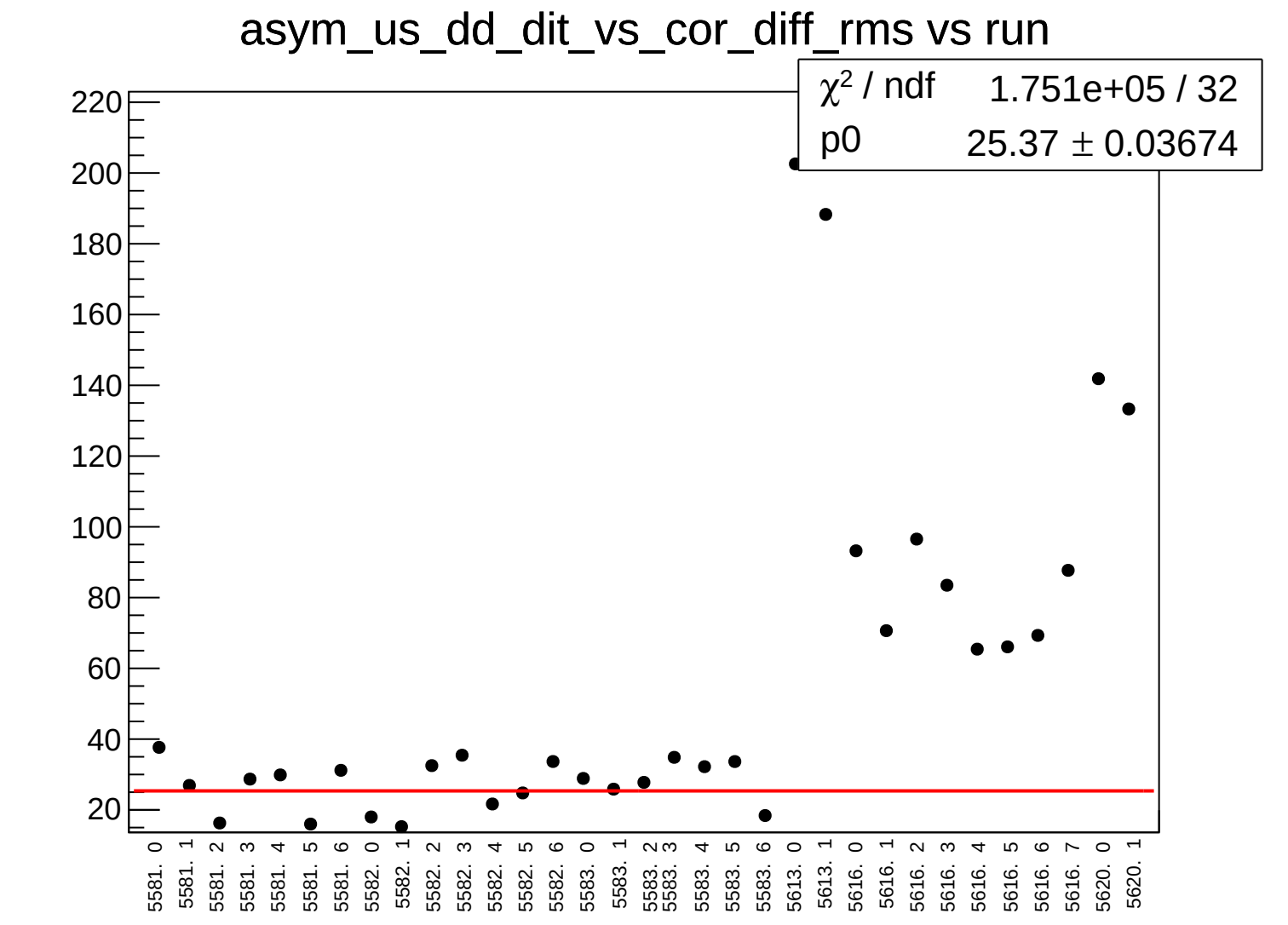

asym_us_dd_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 18.75 / 32
p0 5.13e−14 ± 1.091e−13
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

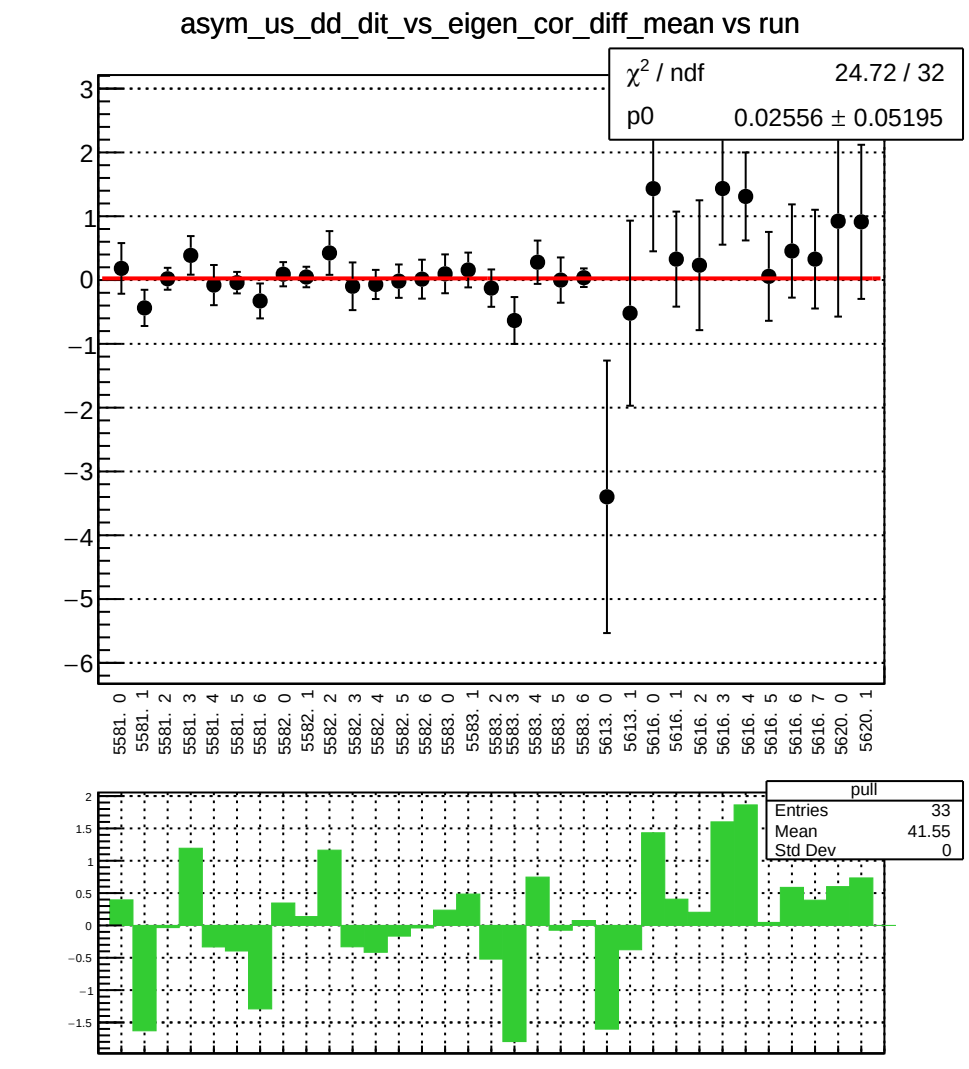

pull1D
Entries 33
Mean −0.119
Std Dev 0.7444
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

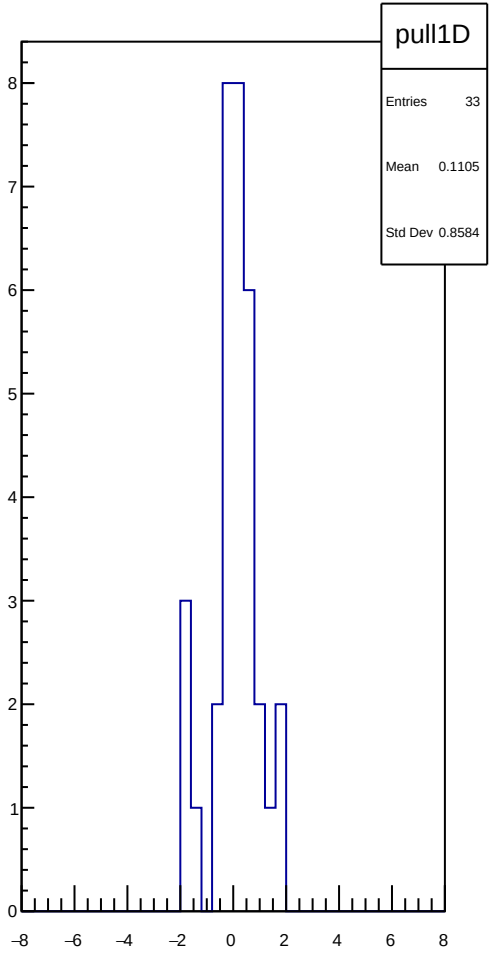

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.396e+05 / 32
p0 4.954e−11 ± 7.714e−14
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

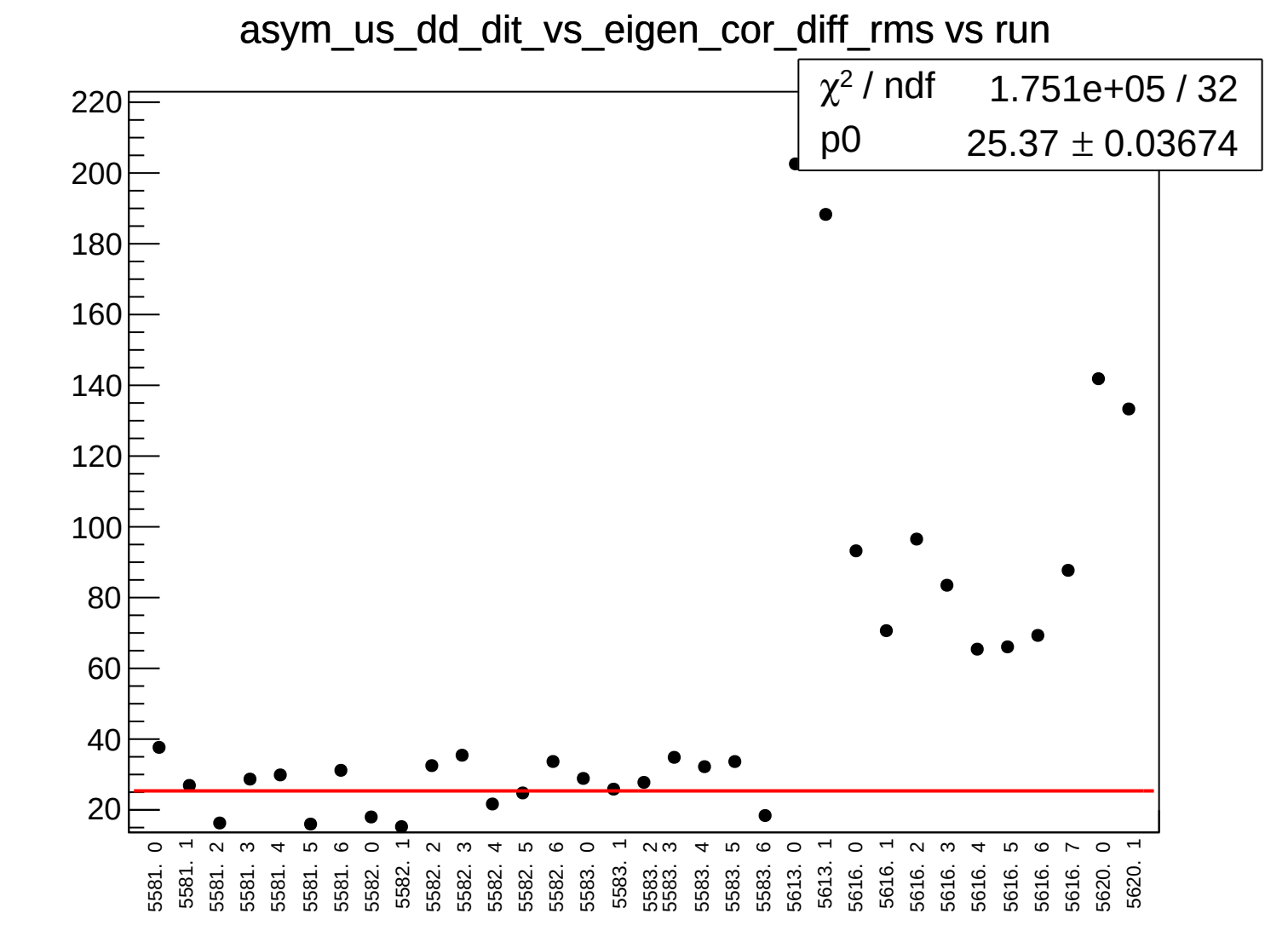

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 24.72 / 32
p0 0.02556 ± 0.05195
pull
Entries 33
Mean 41.55
Std Dev 0

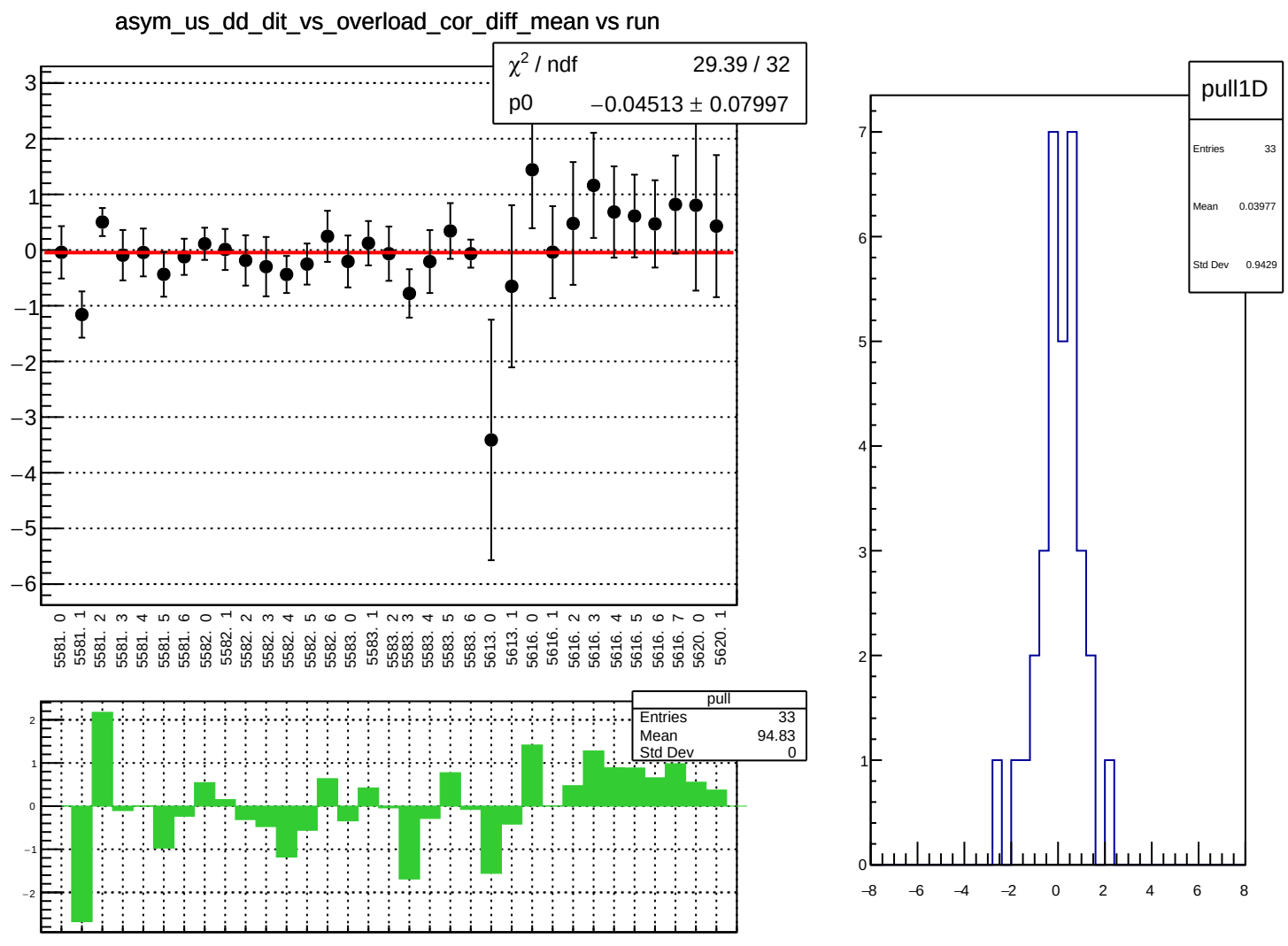

pull1D
Entries 33
Mean 0.1105
Std Dev 0.8584

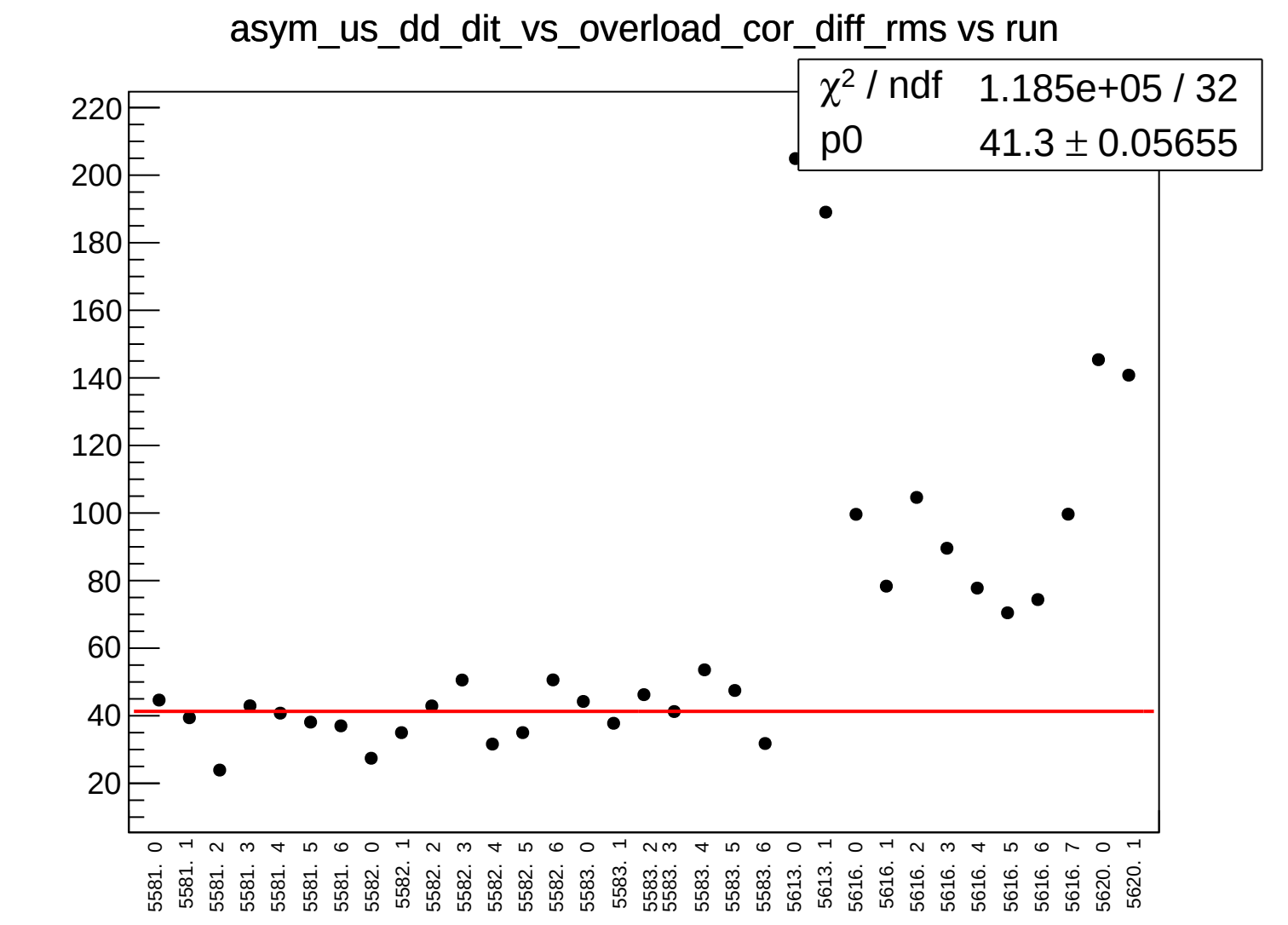

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.751e+05 / 32
p0 25.37 ± 0.03674
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

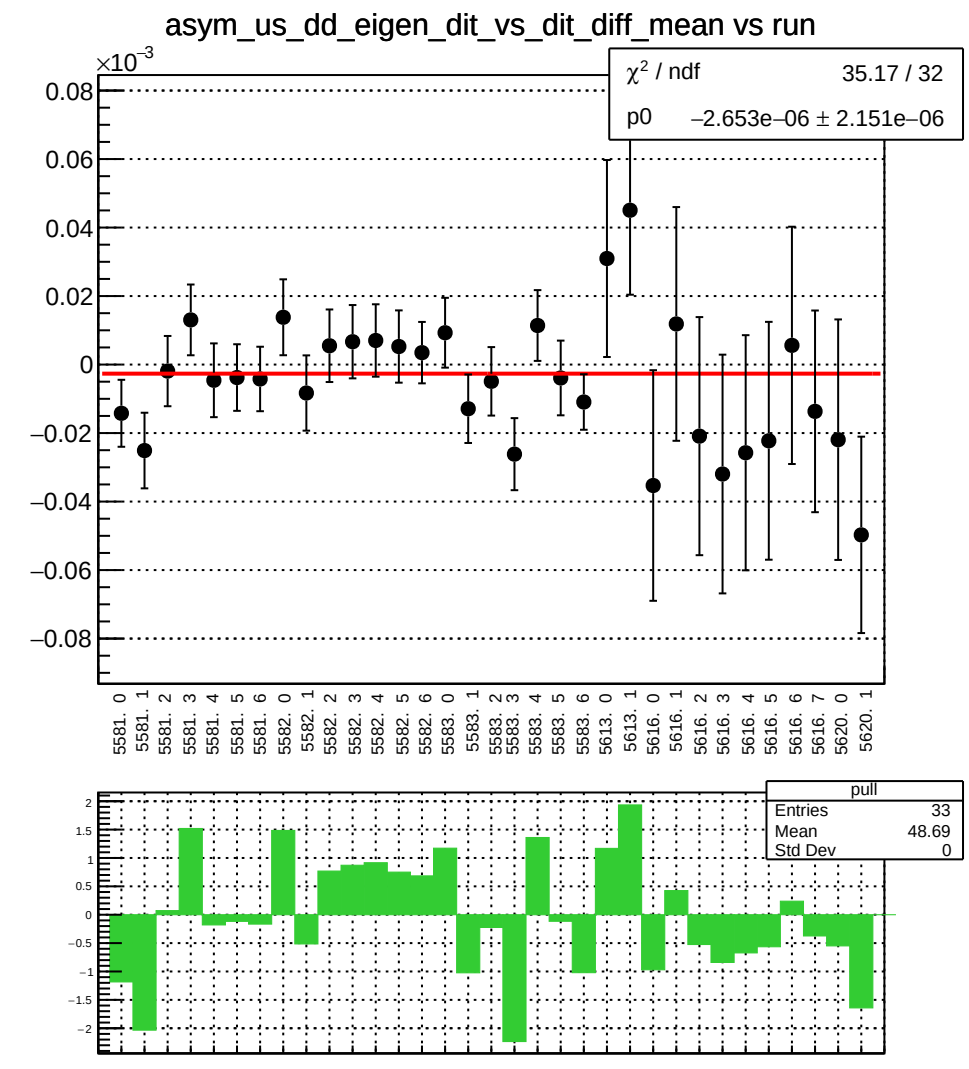

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.72 / 32
p0 0.02556 ± 0.05195
pull
Entries 33
Mean 41.55
Std Dev 0

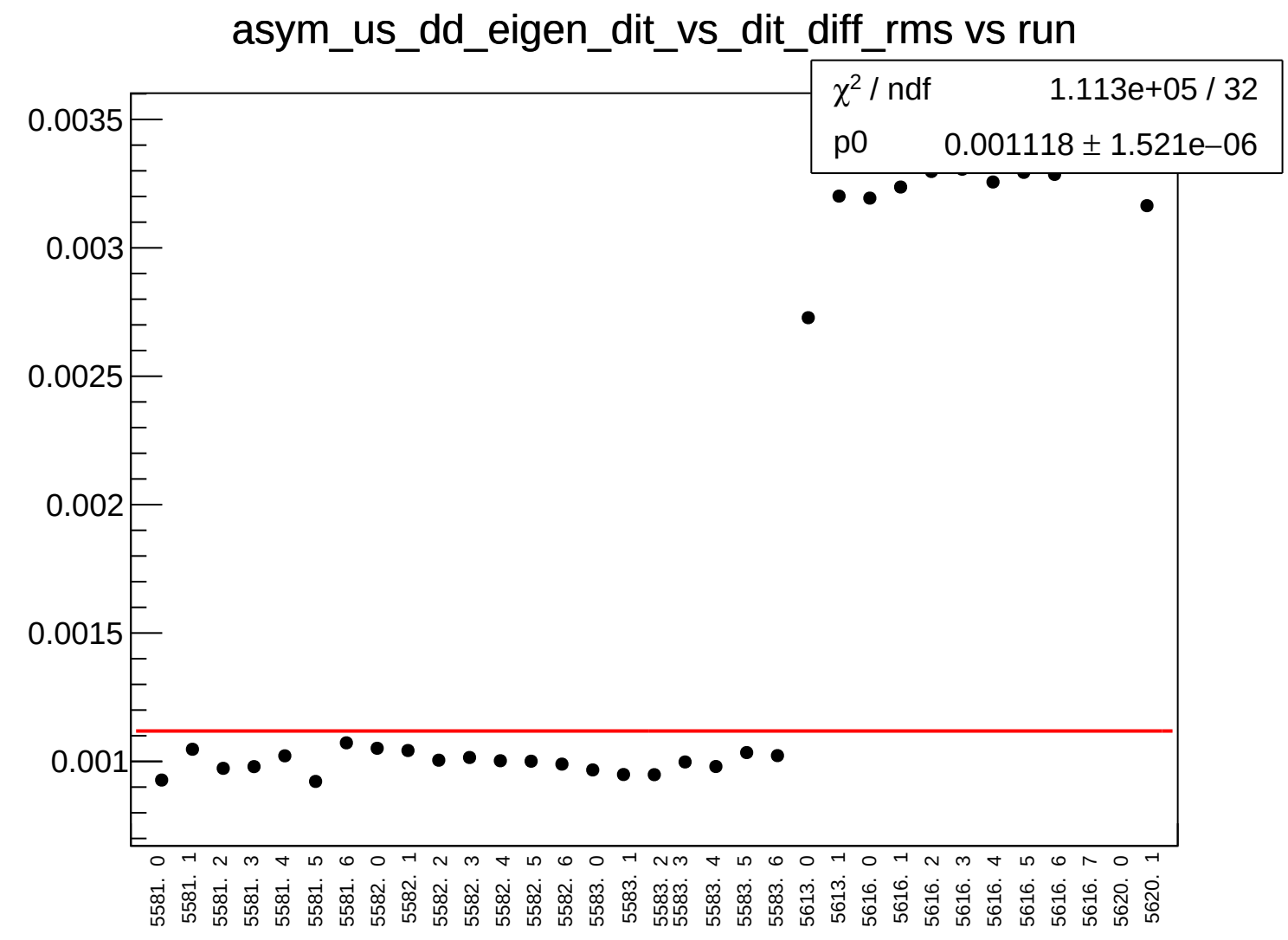

pull1D
Entries 33
Mean 0.1105
Std Dev 0.8584

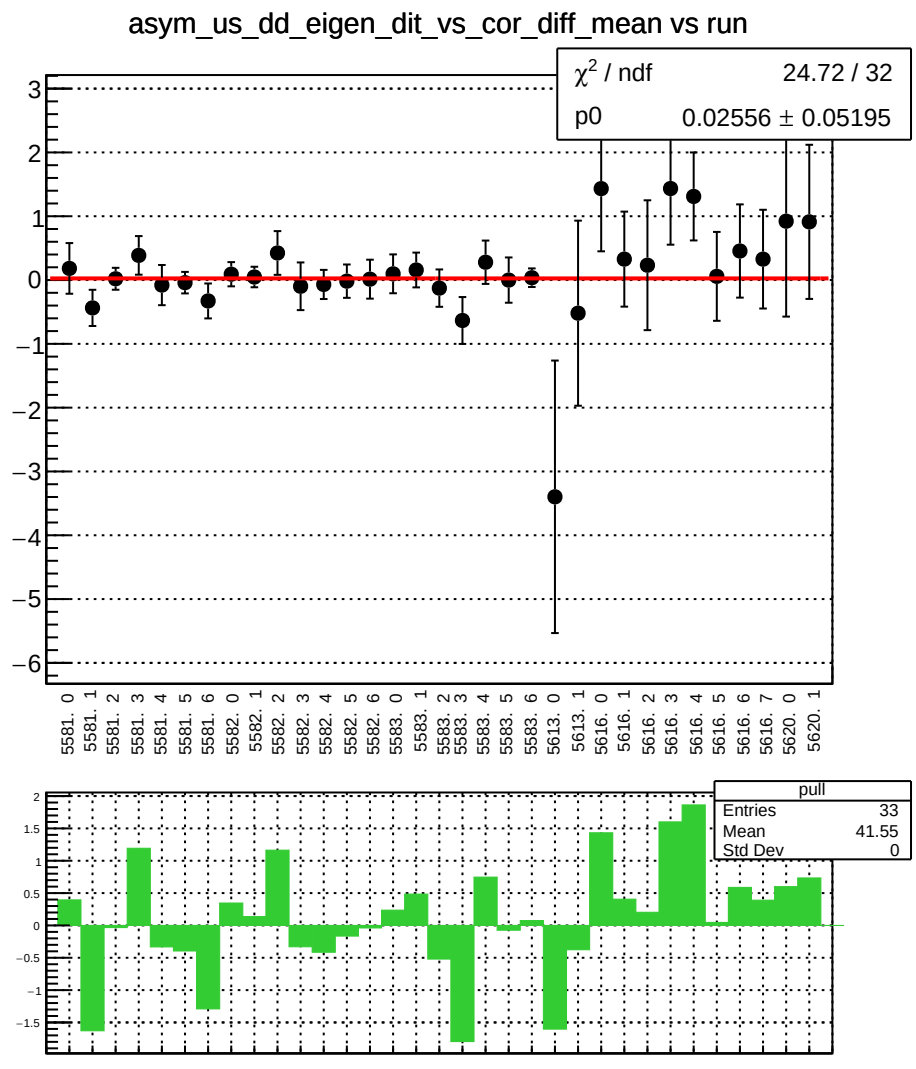

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.751e+05 / 32
p0 25.37 ± 0.03674
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

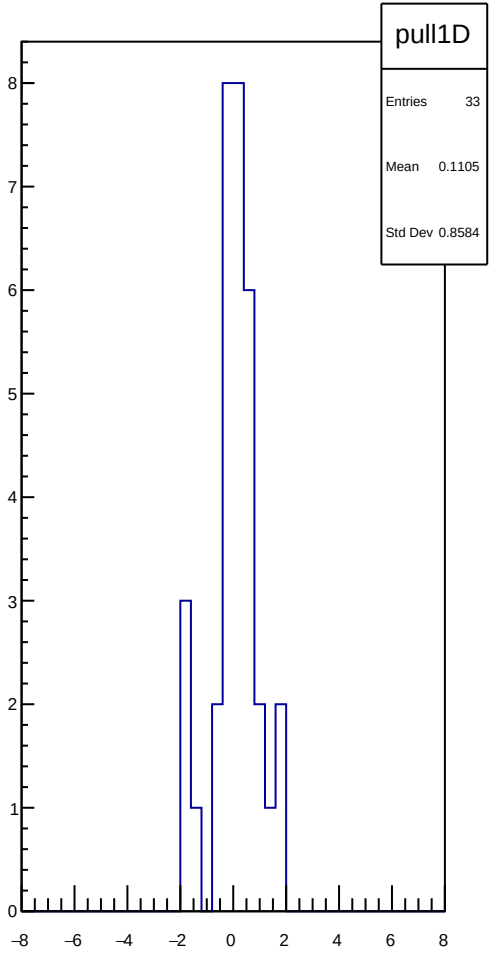

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 29.39 / 32
p0 −0.04513 ± 0.07997
pull
Entries 33
Mean 94.83
Std Dev 0
pull1D
Entries 33
Mean 0.03977
Std Dev 0.9429

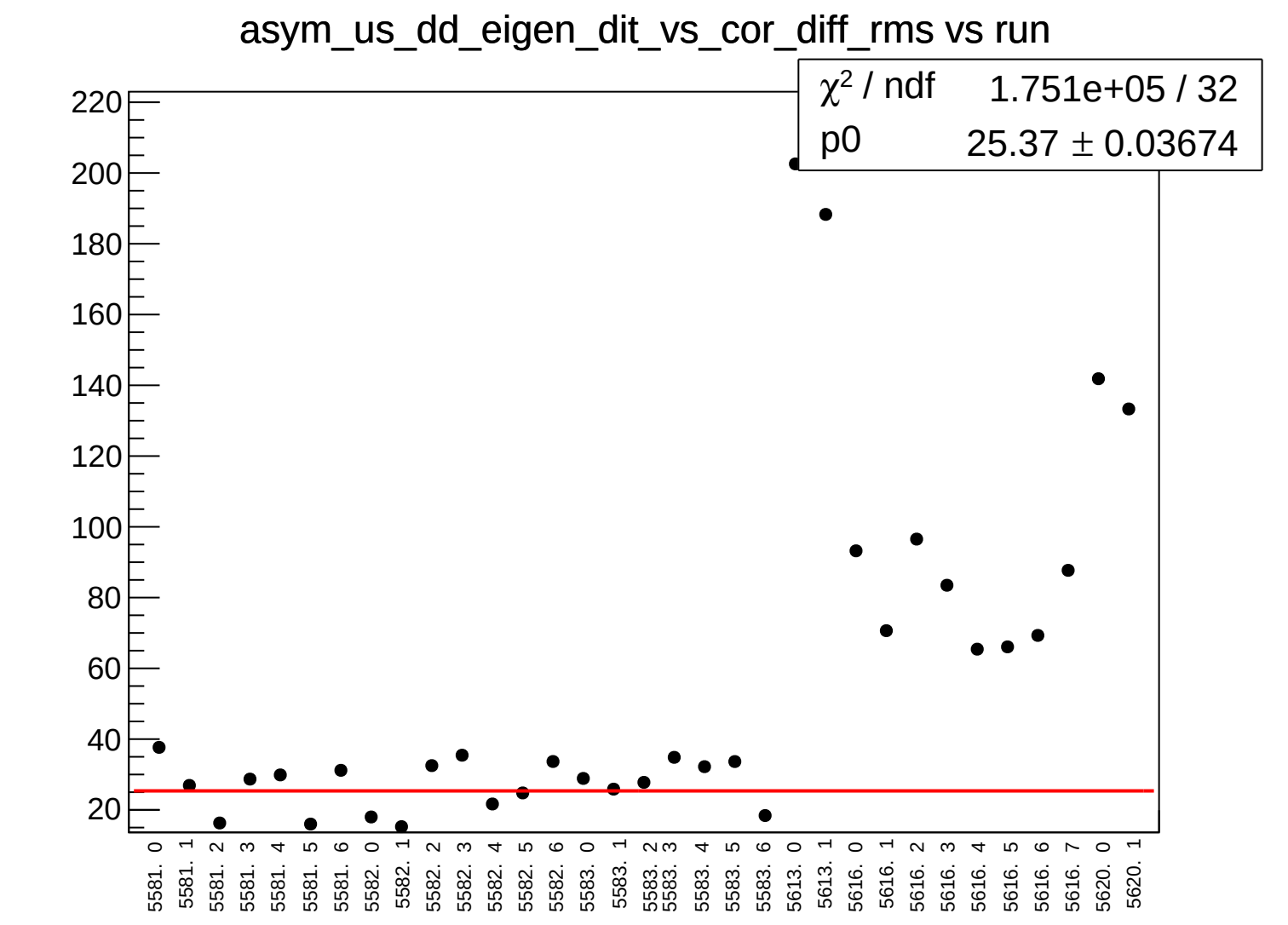

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.185e+05 / 32
p0 41.3 ± 0.05655
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

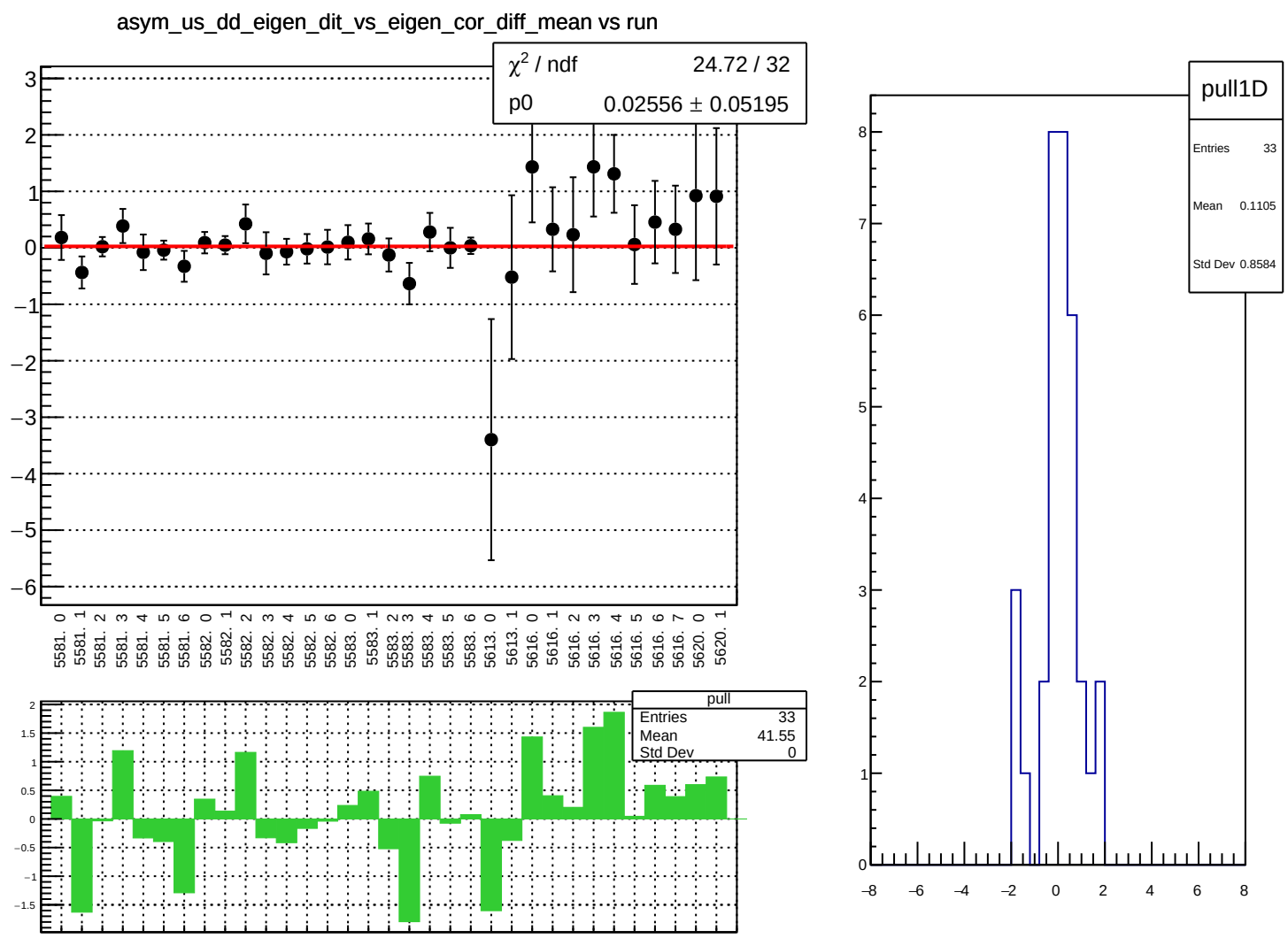

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.17 / 32
p0 −2.653e−06 ± 2.151e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 48.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.0479
Std Dev 1.031
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

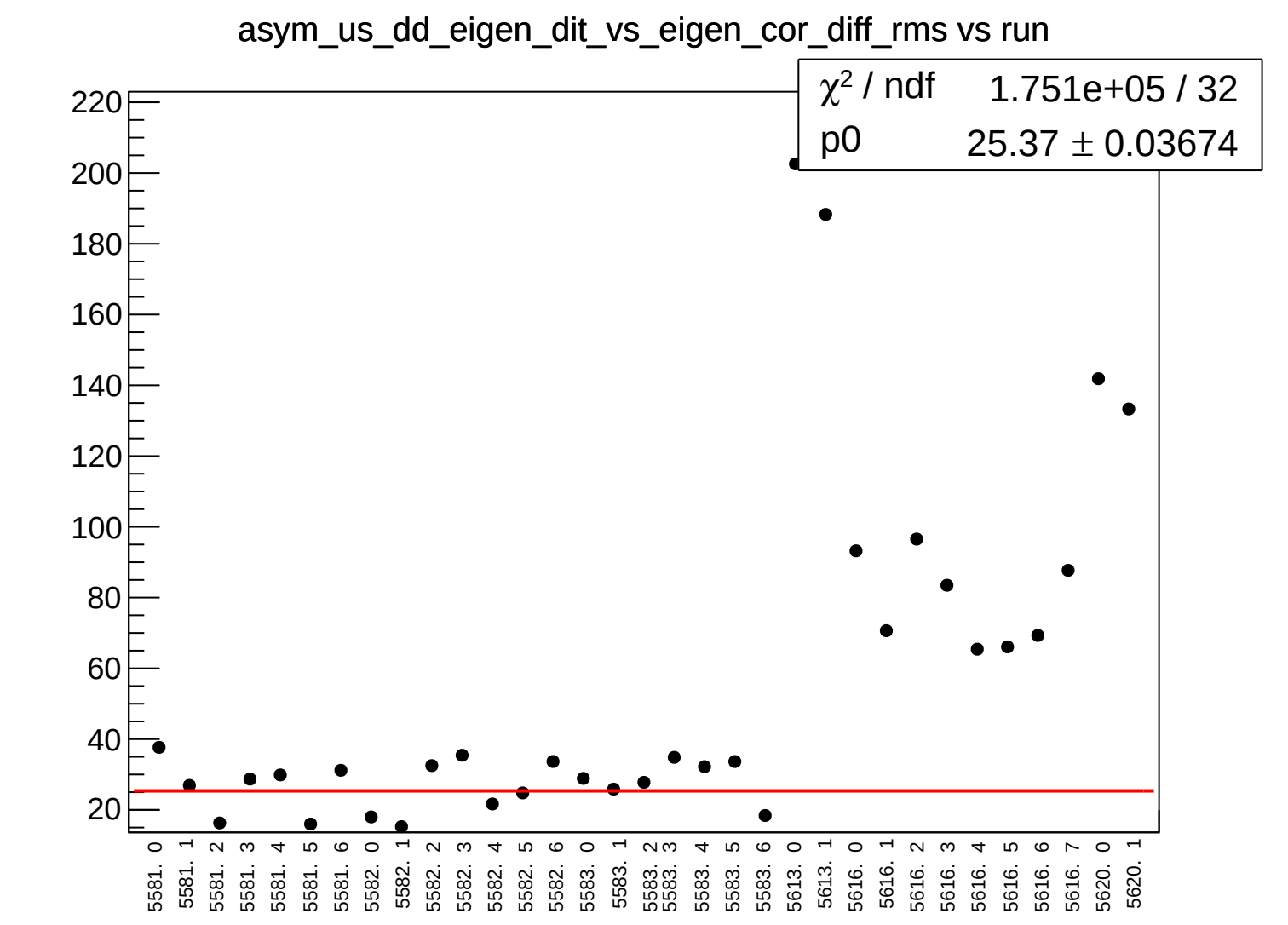

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.113e+05 / 32
p0 0.001118 ± 1.521e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

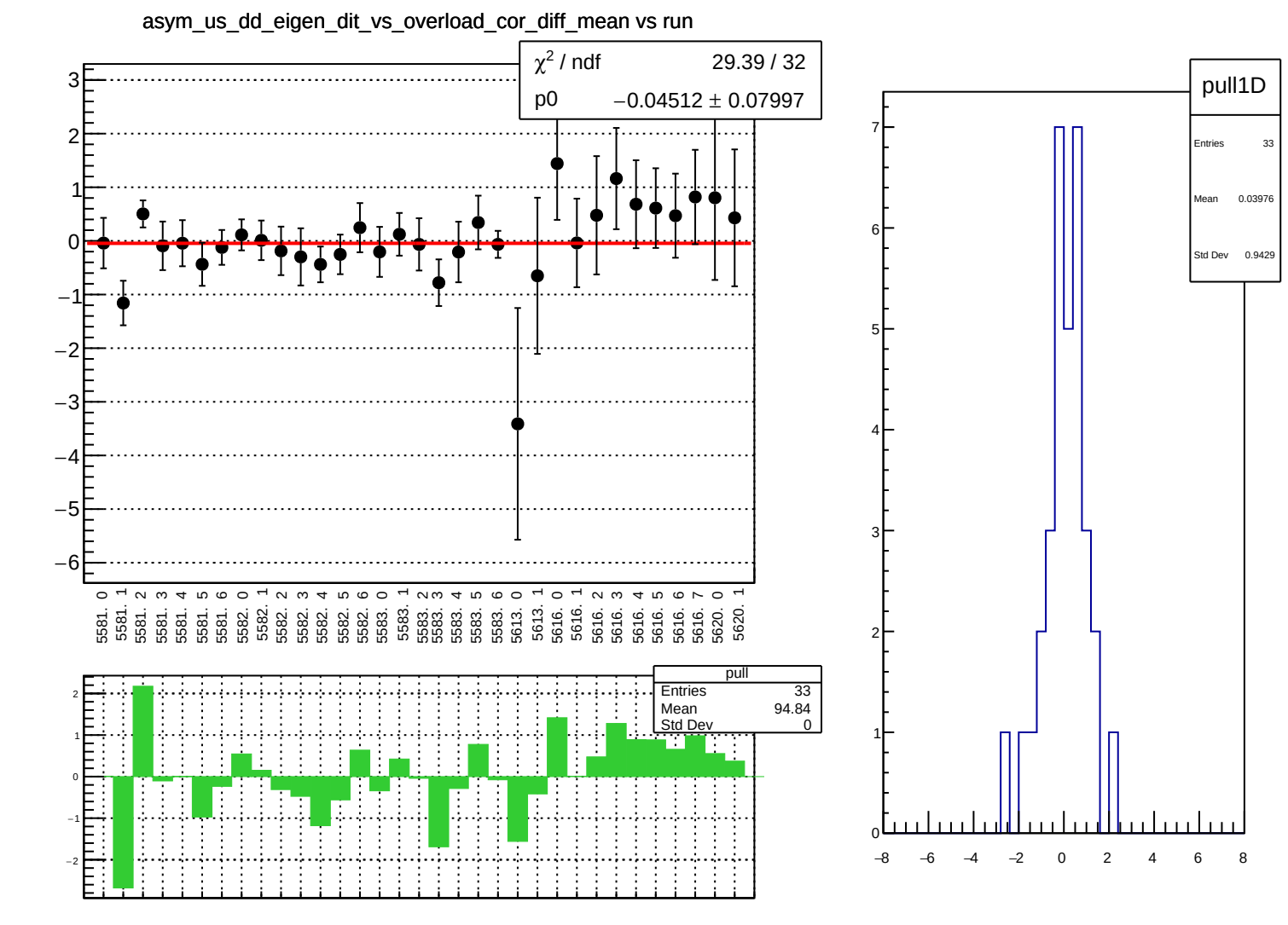

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.72 / 32
p0 0.02556 ± 0.05195
pull
Entries 33
Mean 41.55
Std Dev 0

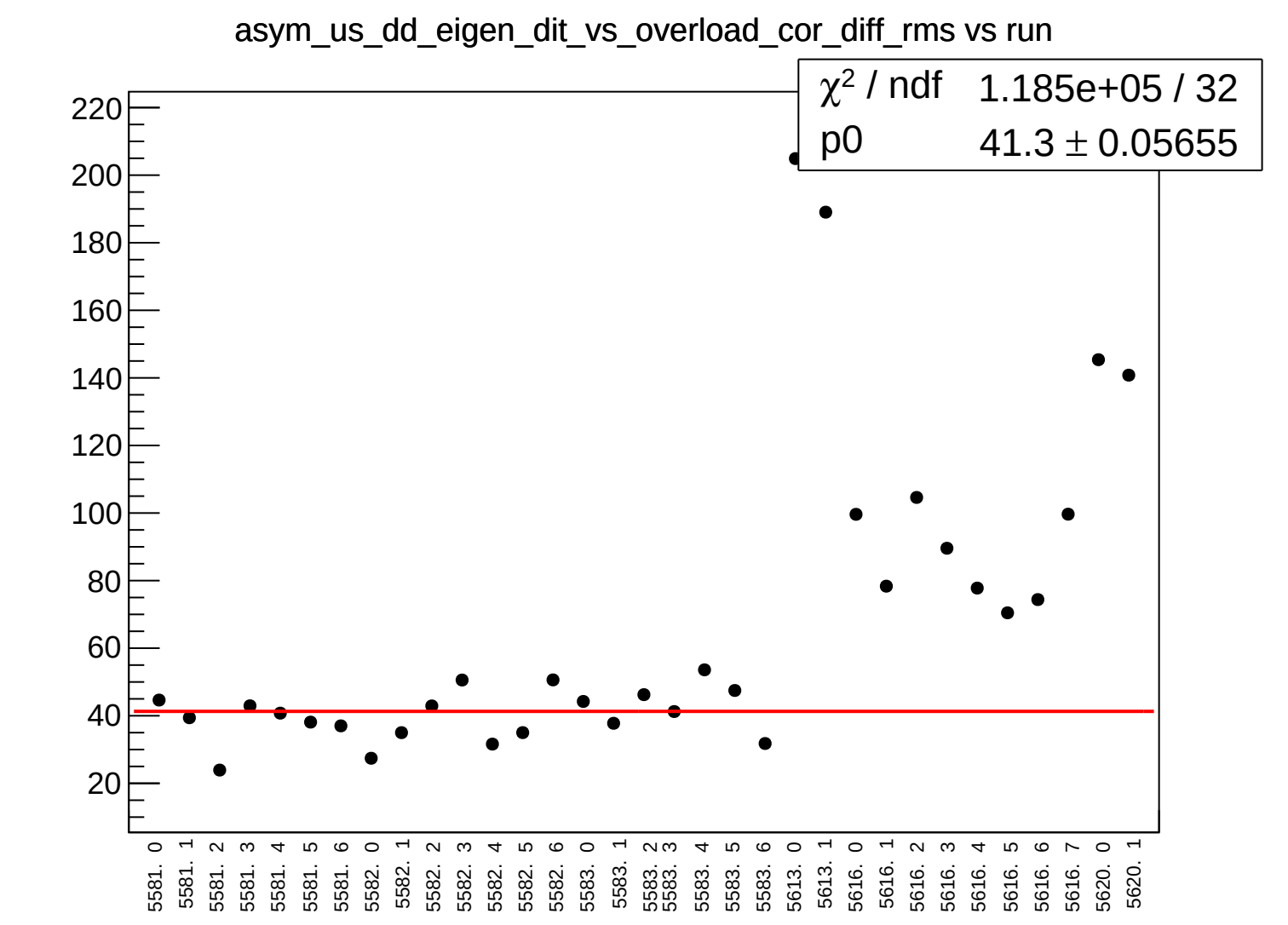

pull1D
Entries 33
Mean 0.1105
Std Dev 0.8584

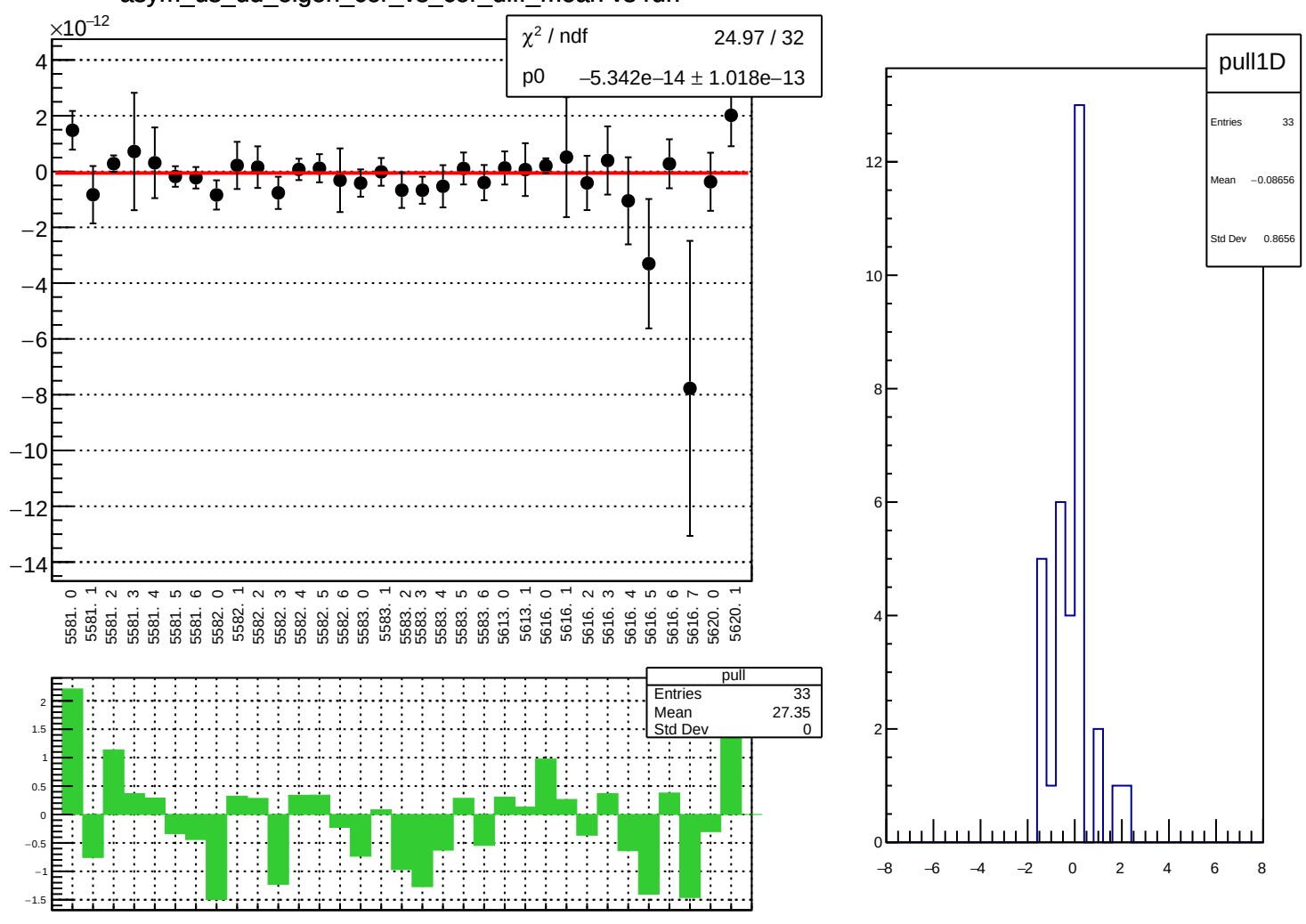

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.751e+05 / 32
p0 25.37 ± 0.03674
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

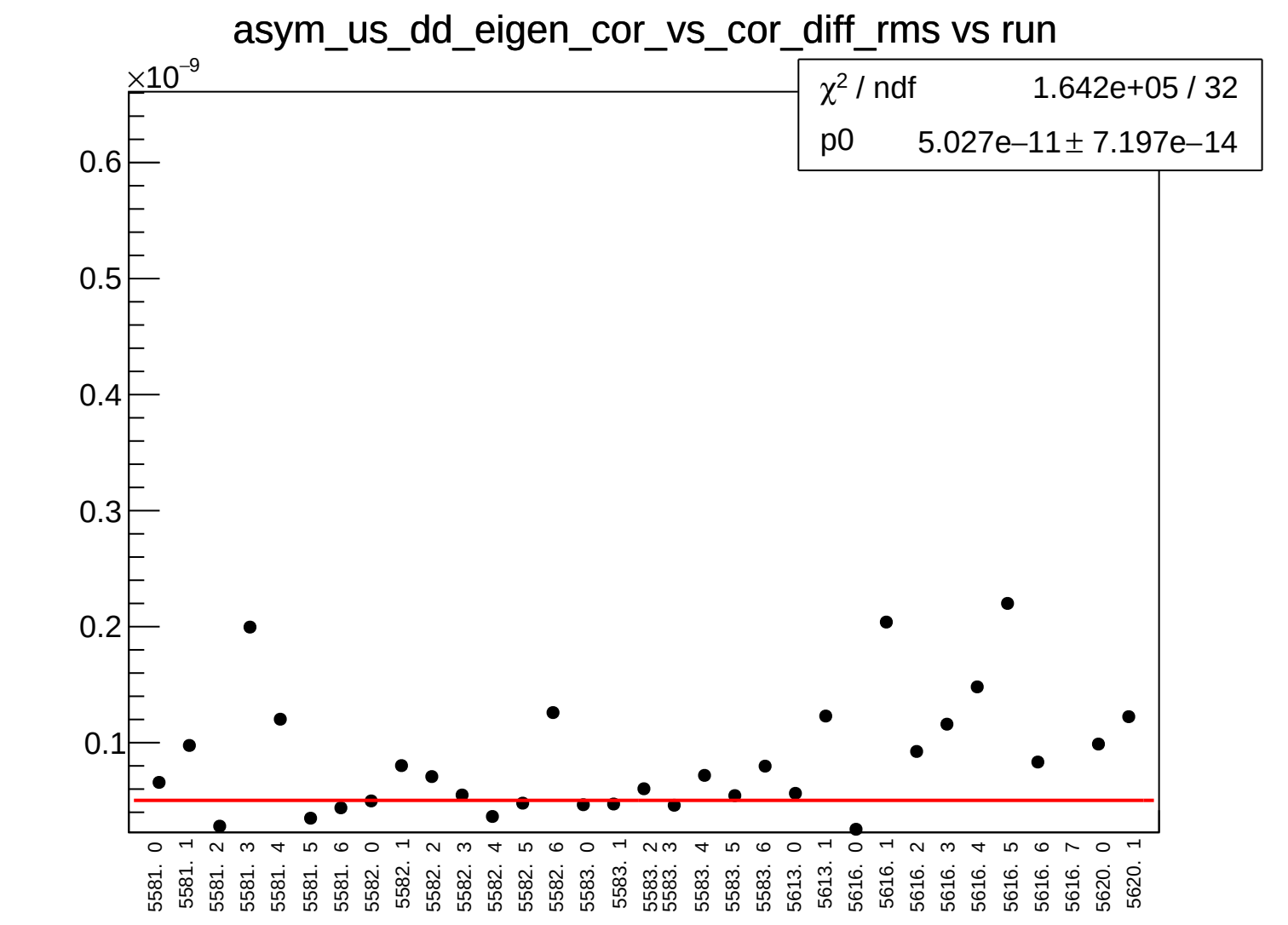

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.72 / 32
p0 0.02556 ± 0.05195
pull
Entries 33
Mean 41.55
Std Dev 0
pull1D
Entries 33
Mean 0.1105
Std Dev 0.8584

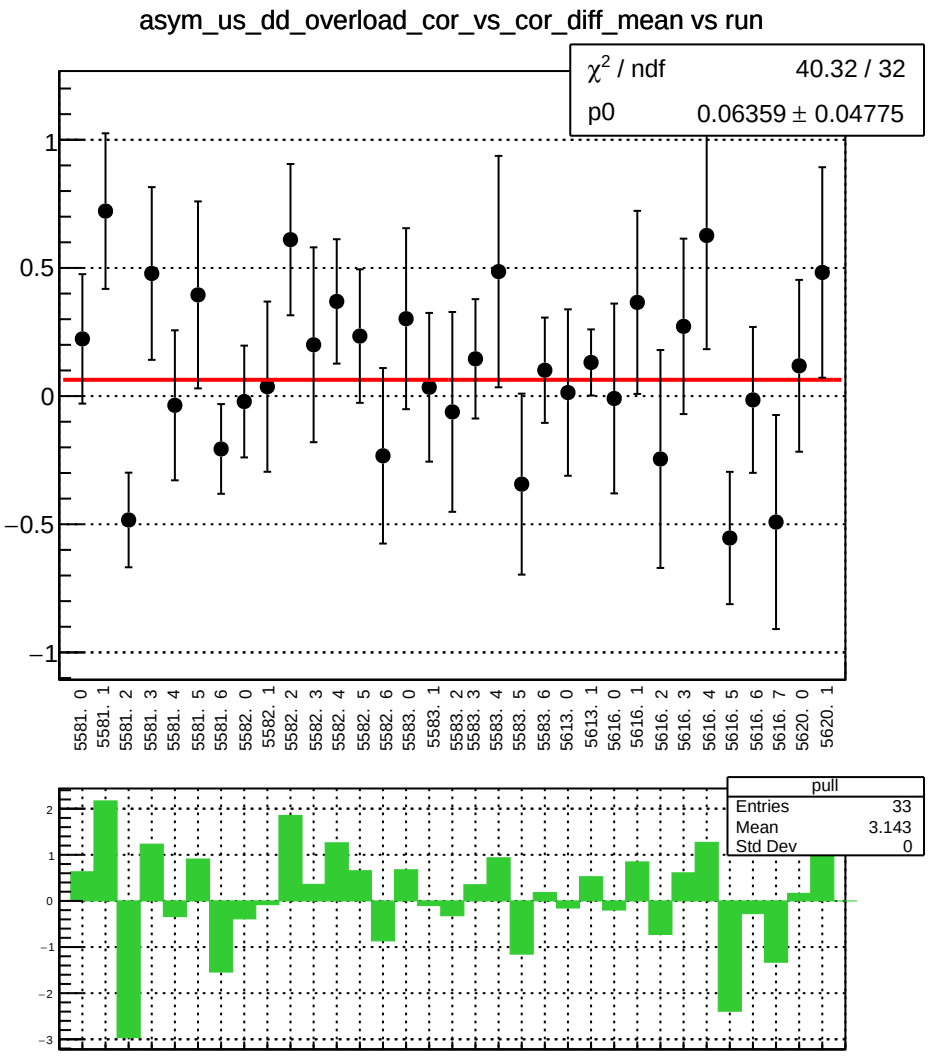

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.751e+05 / 32
p0 25.37 ± 0.03674
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

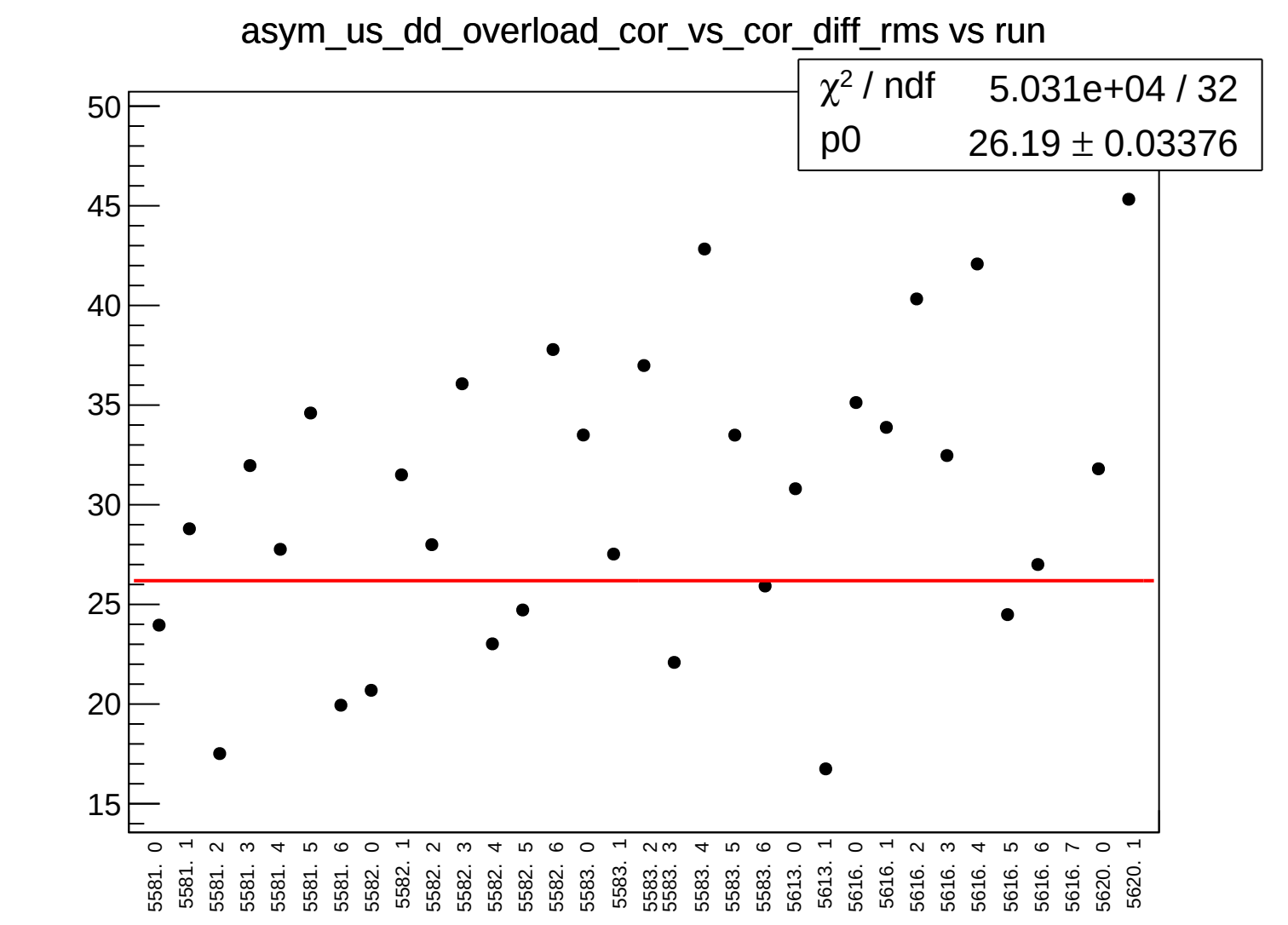

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 29.39 / 32
p0 −0.04512 ± 0.07997
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 94.84
Std Dev 0
pull1D
Entries 33
Mean 0.03976
Std Dev 0.9429

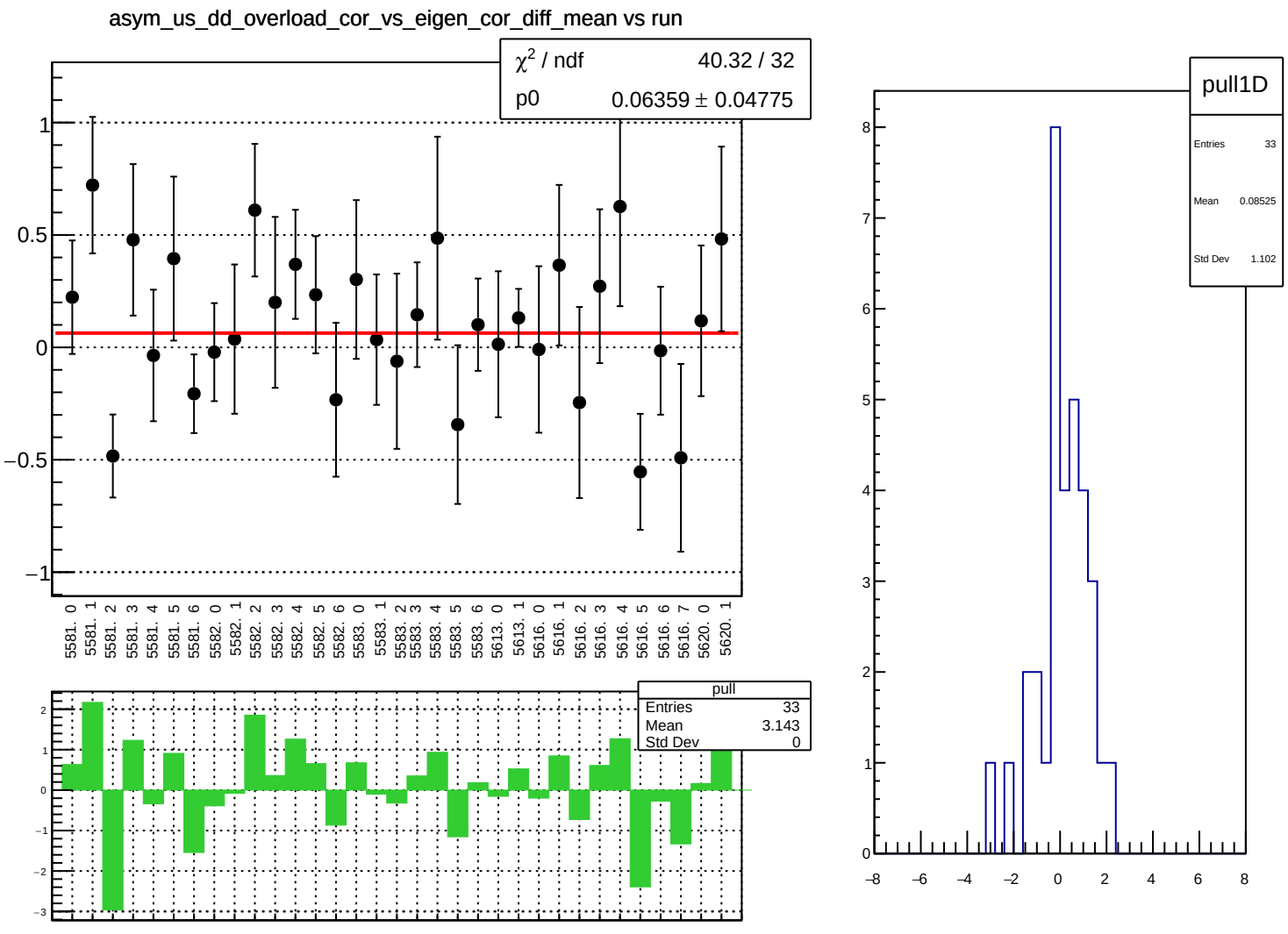

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.185e+05 / 32
p0 41.3 ± 0.05655
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

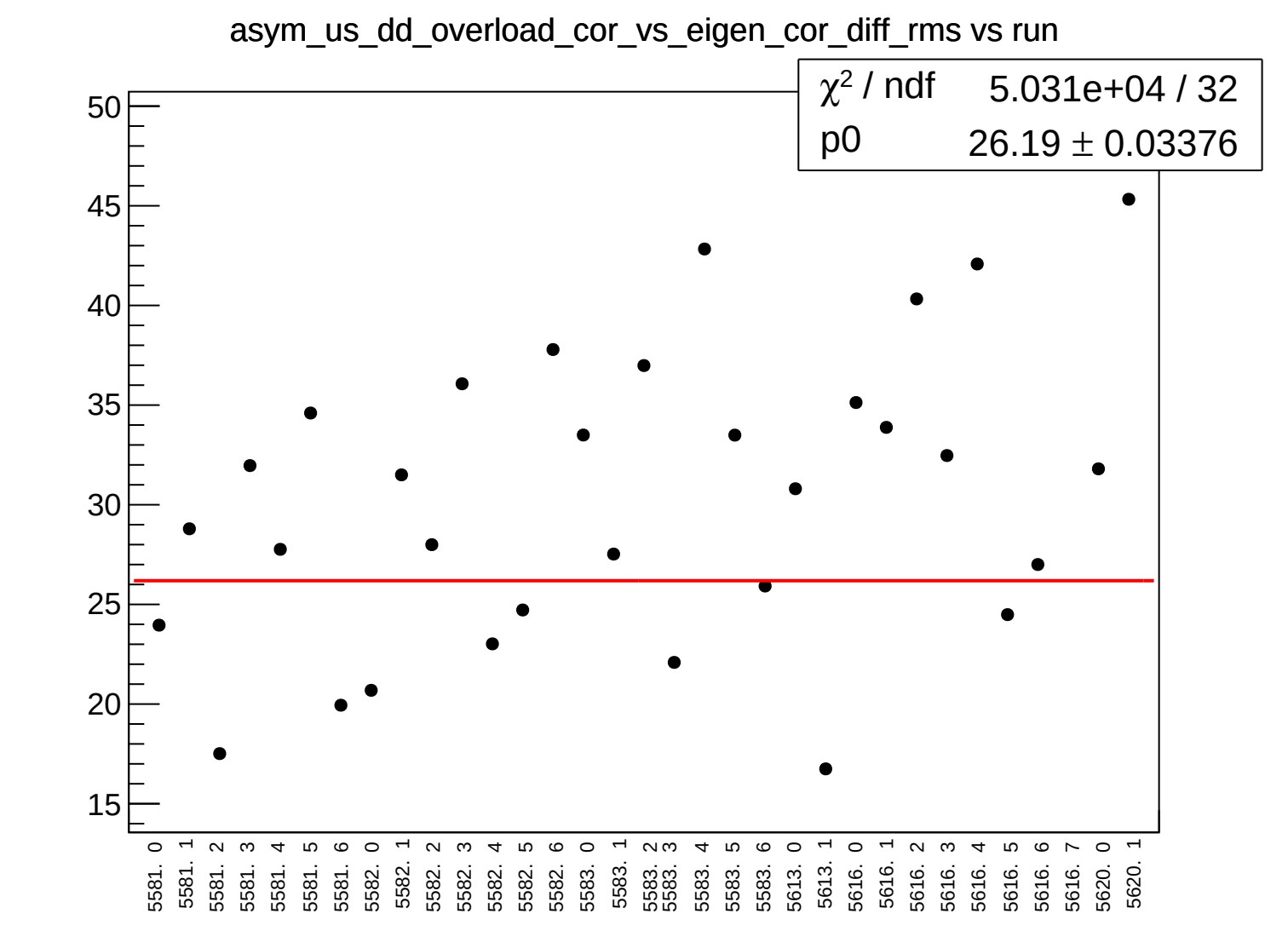

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.97 / 32
p0 −5.342e−14 ± 1.018e−13
4
2
0
−2
−4
−6
−8
−10
−12
−14
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.08656
Std Dev 0.8656
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

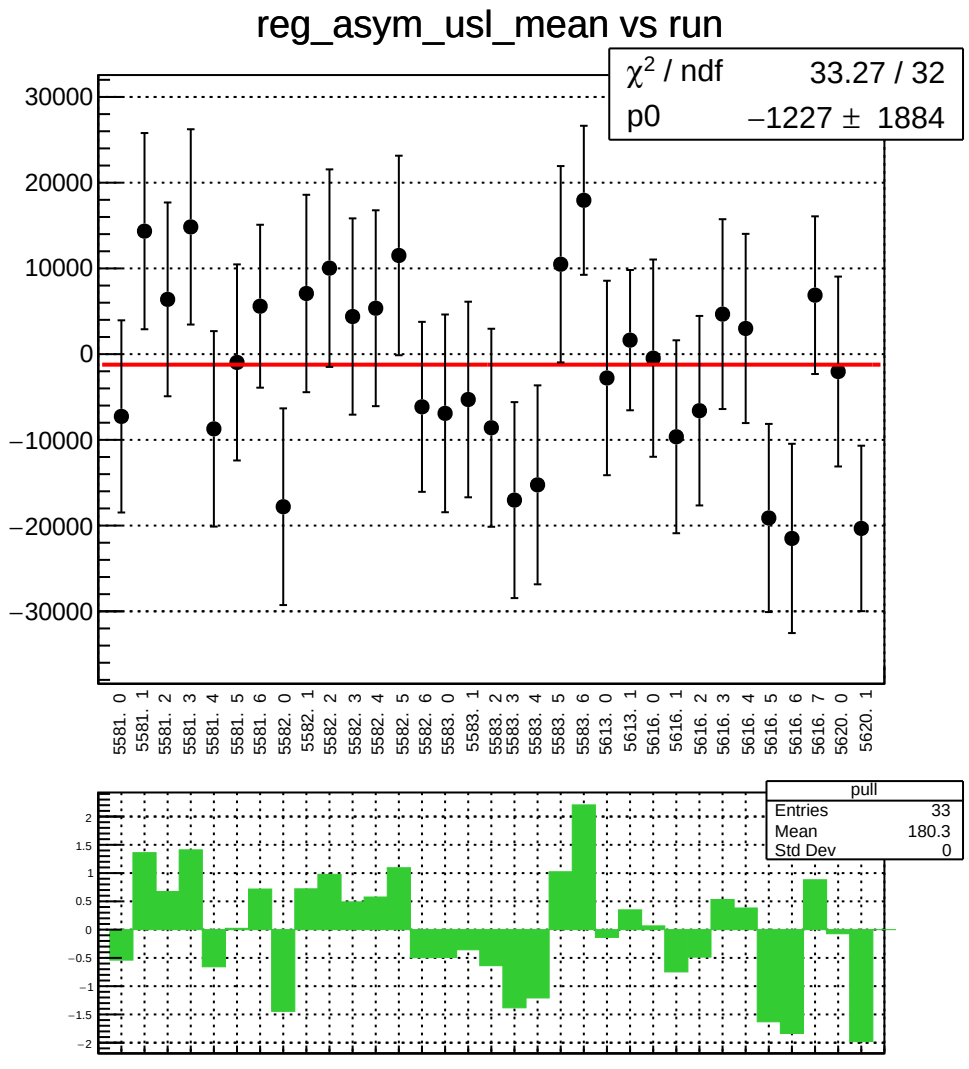

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.642e+05 / 32
p0 5.027e−11 ± 7.197e−14
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

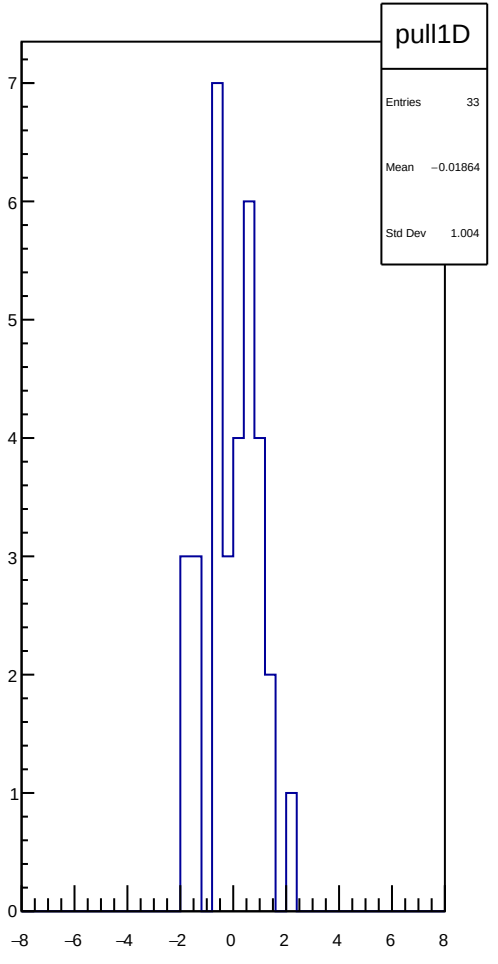

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 40.32 / 32
p0 0.06359 ± 0.04775
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 3.143
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.08525
Std Dev 1.102
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

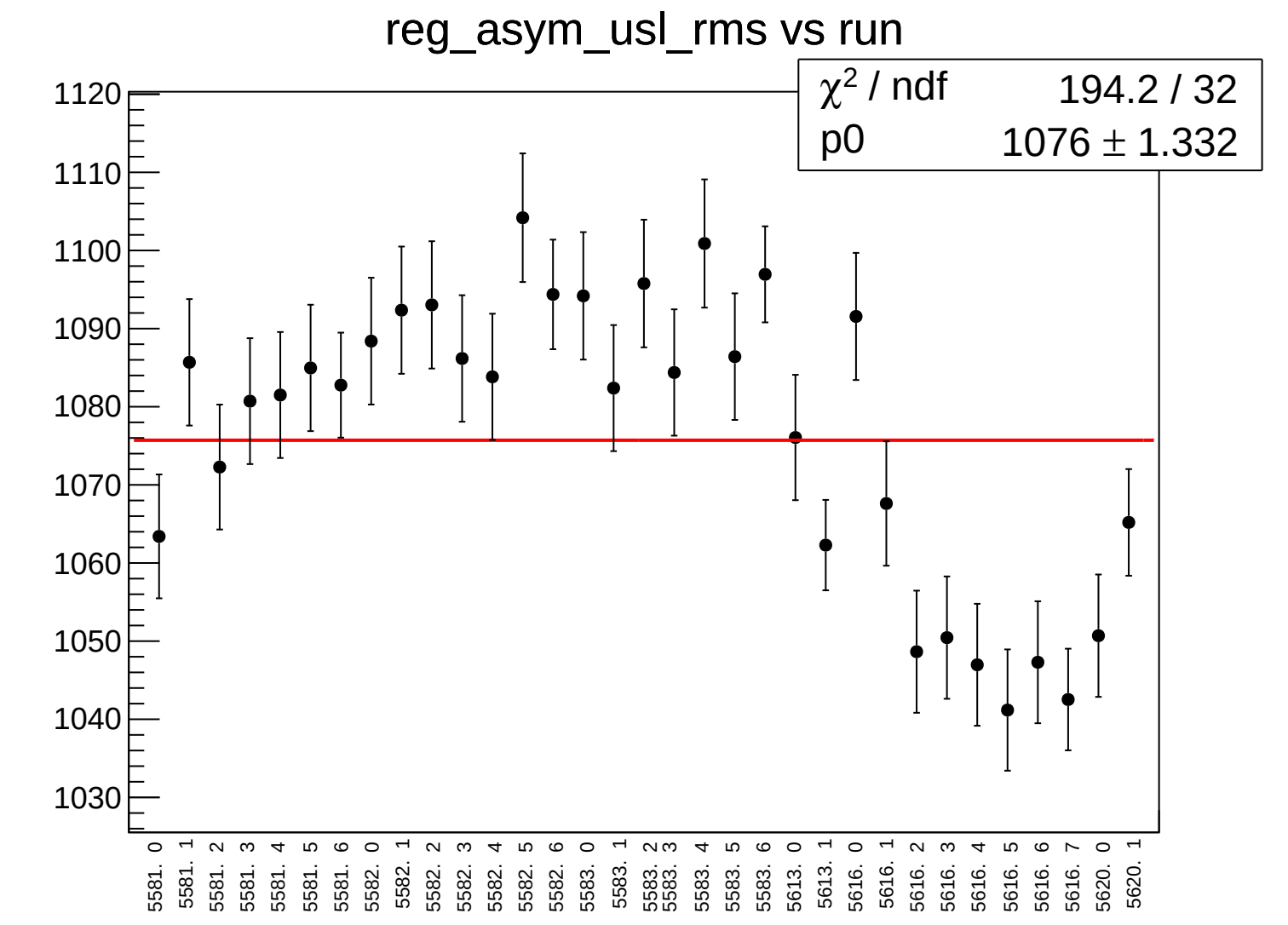

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 5.031e+04 / 32
p0 26.19 ± 0.03376
50
45
40
35
30
25
20
15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

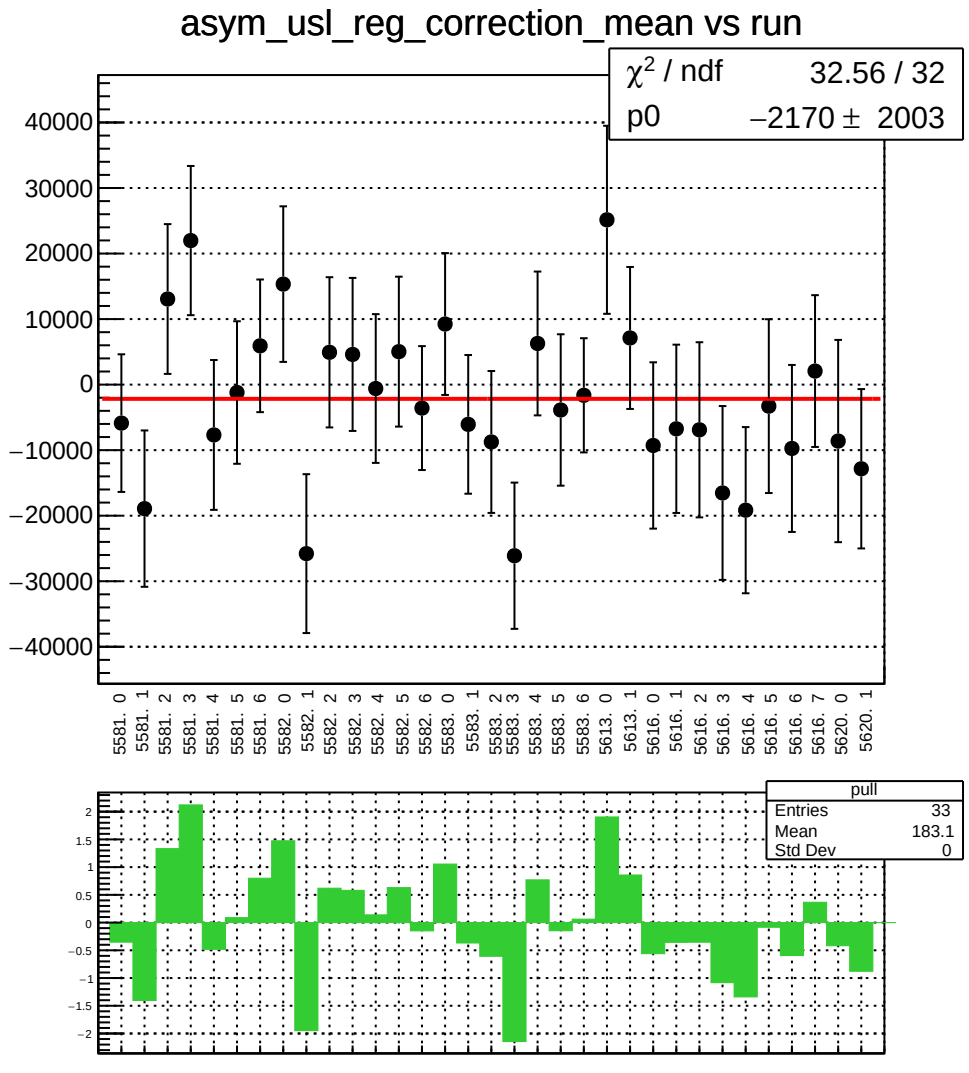

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.32 / 32
p0 0.06359 ± 0.04775
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 3.143
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.08525
Std Dev 1.102
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

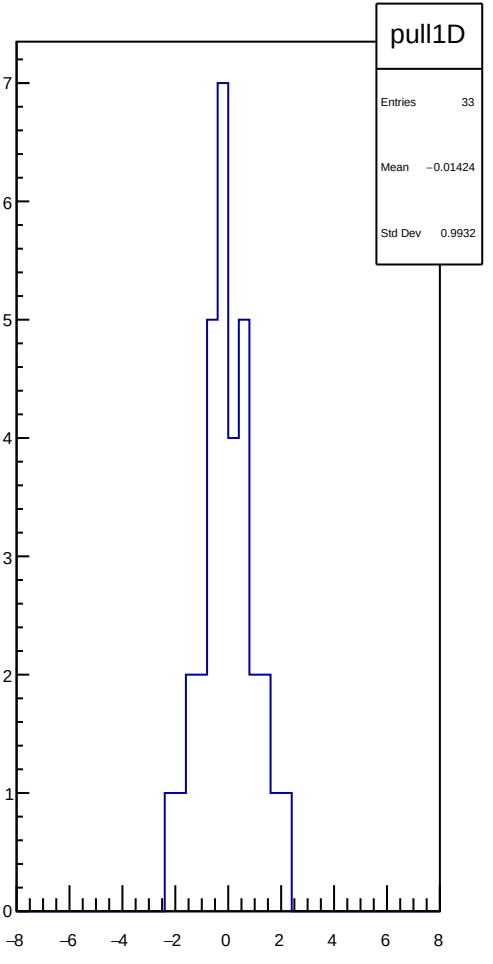

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.031e+04 / 32
p0 26.19 ± 0.03376
50
45
40
35
30
25
20
15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

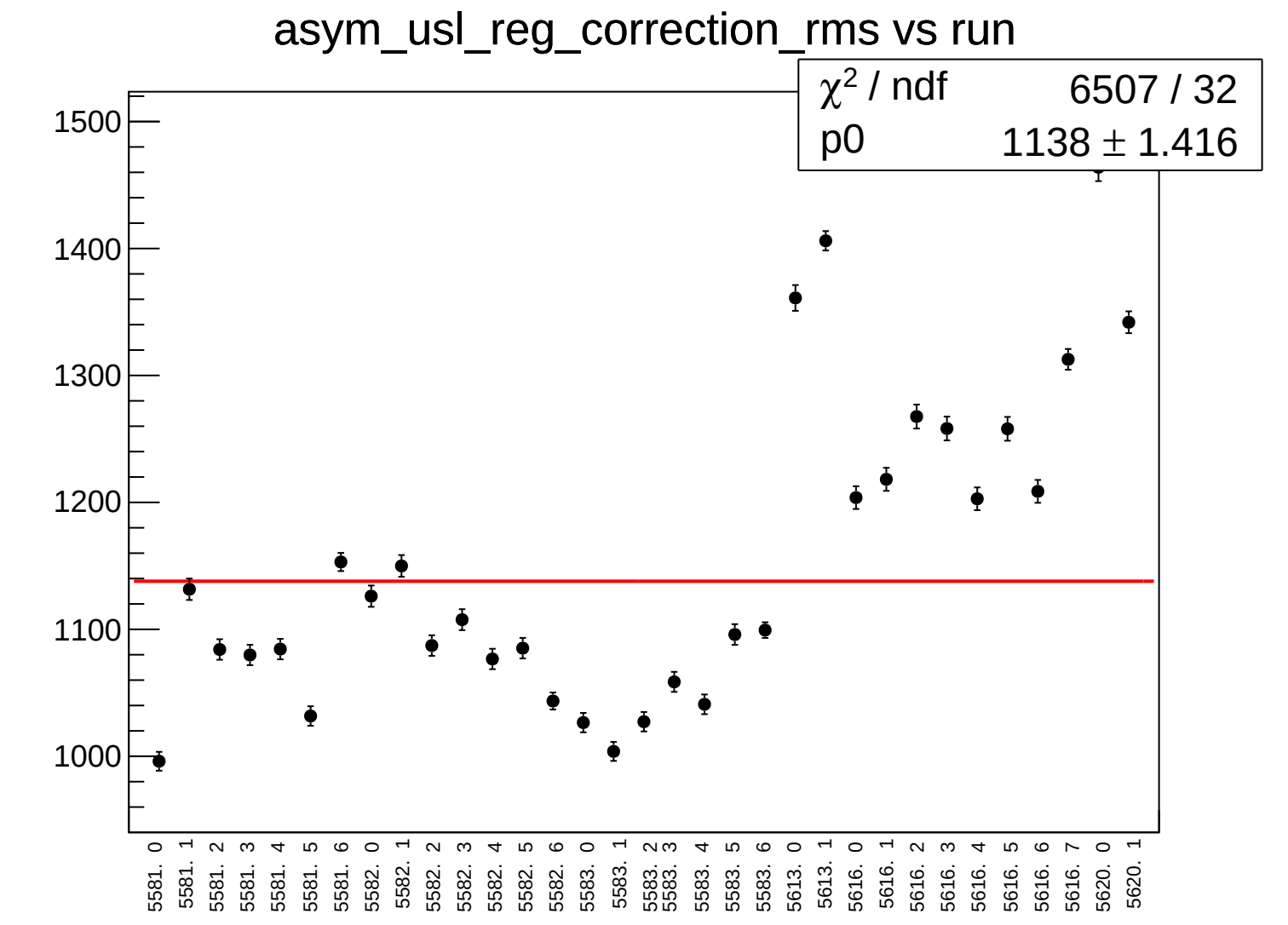

reg_asym_usl_mean vs run
χ² / ndf 33.27 / 32
p0 −1227 ± 1884
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 180.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

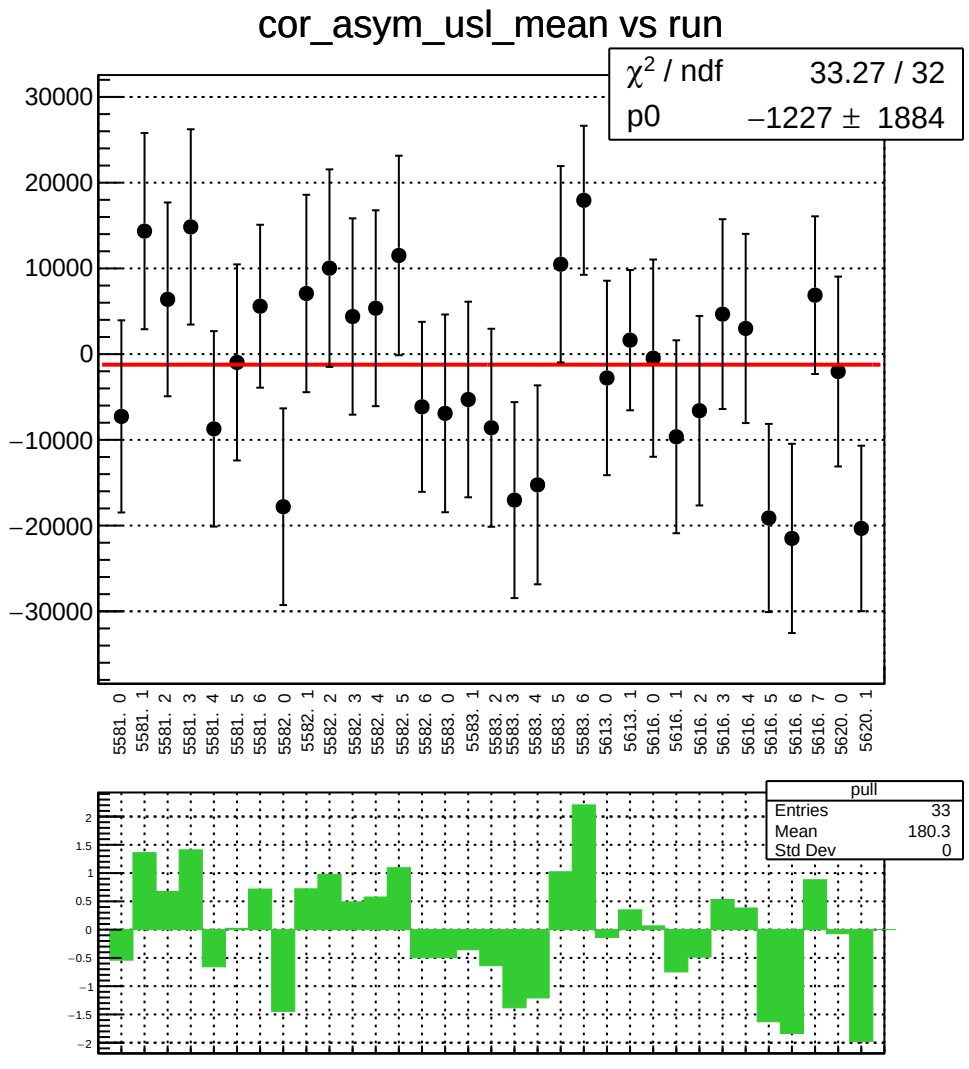

pull1D
Entries 33
Mean −0.01864
Std Dev 1.004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

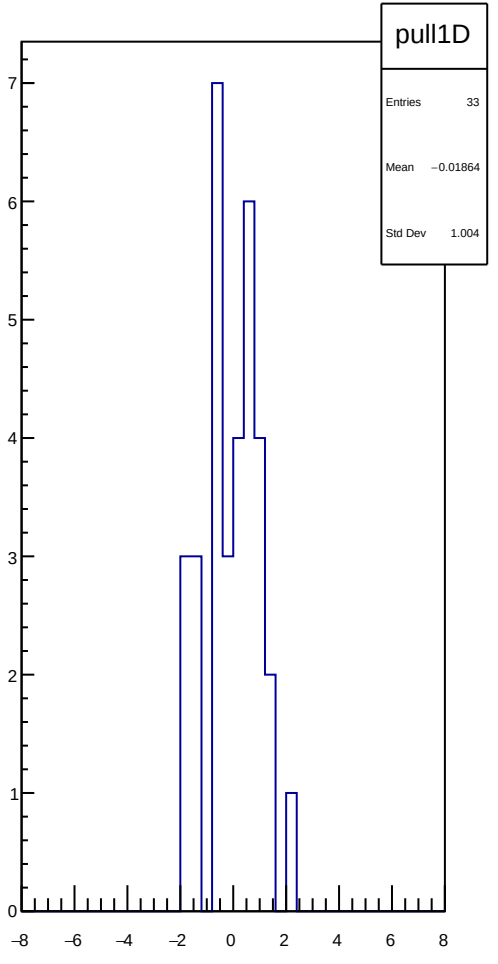

reg_asym_usl_rms vs run
χ² / ndf 194.2 / 32
p0 1076 ± 1.332
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

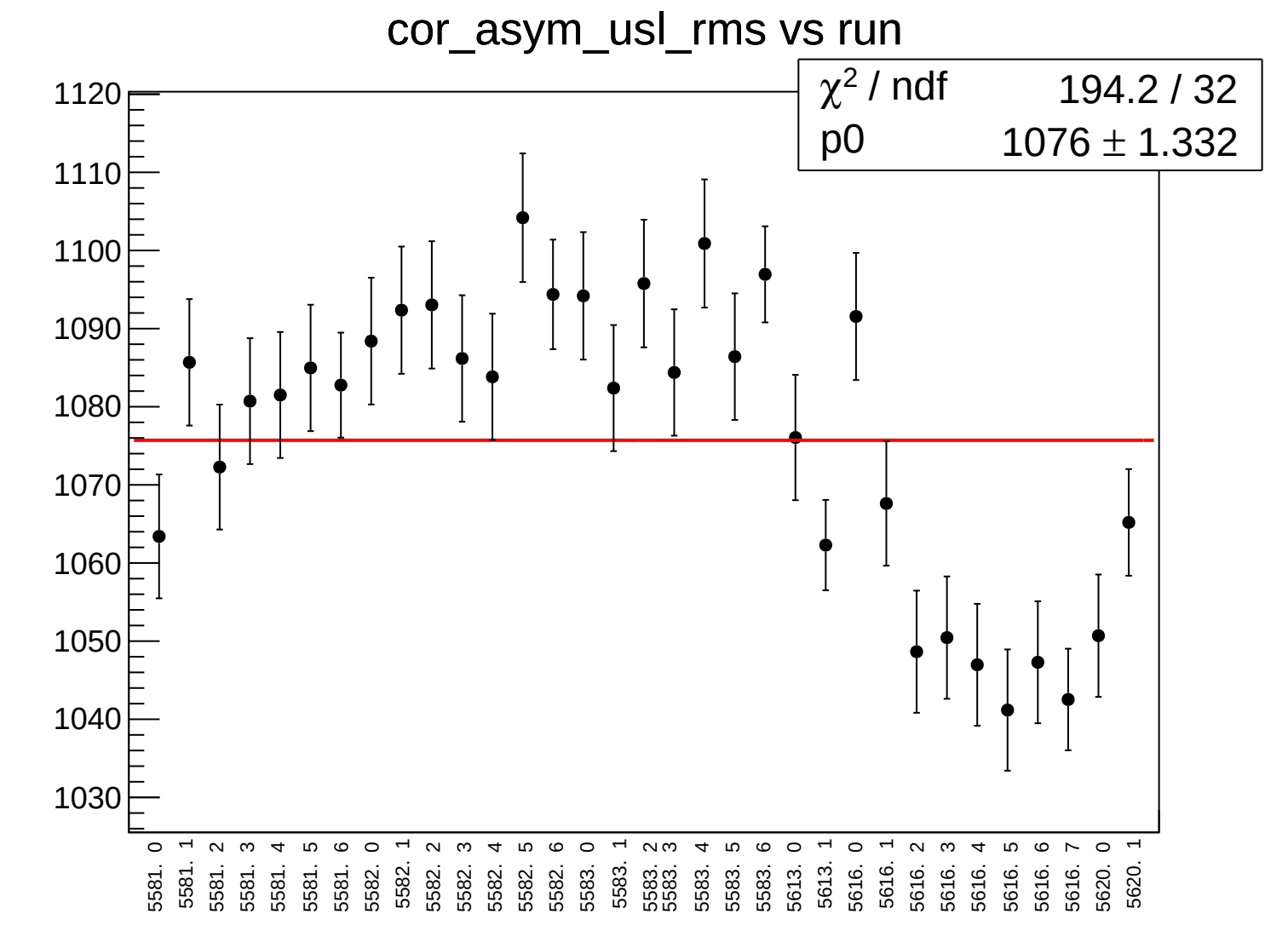

asym_usl_reg_correction_mean vs run
χ² / ndf 32.56 / 32
p0 −2170 ± 2003
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 183.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

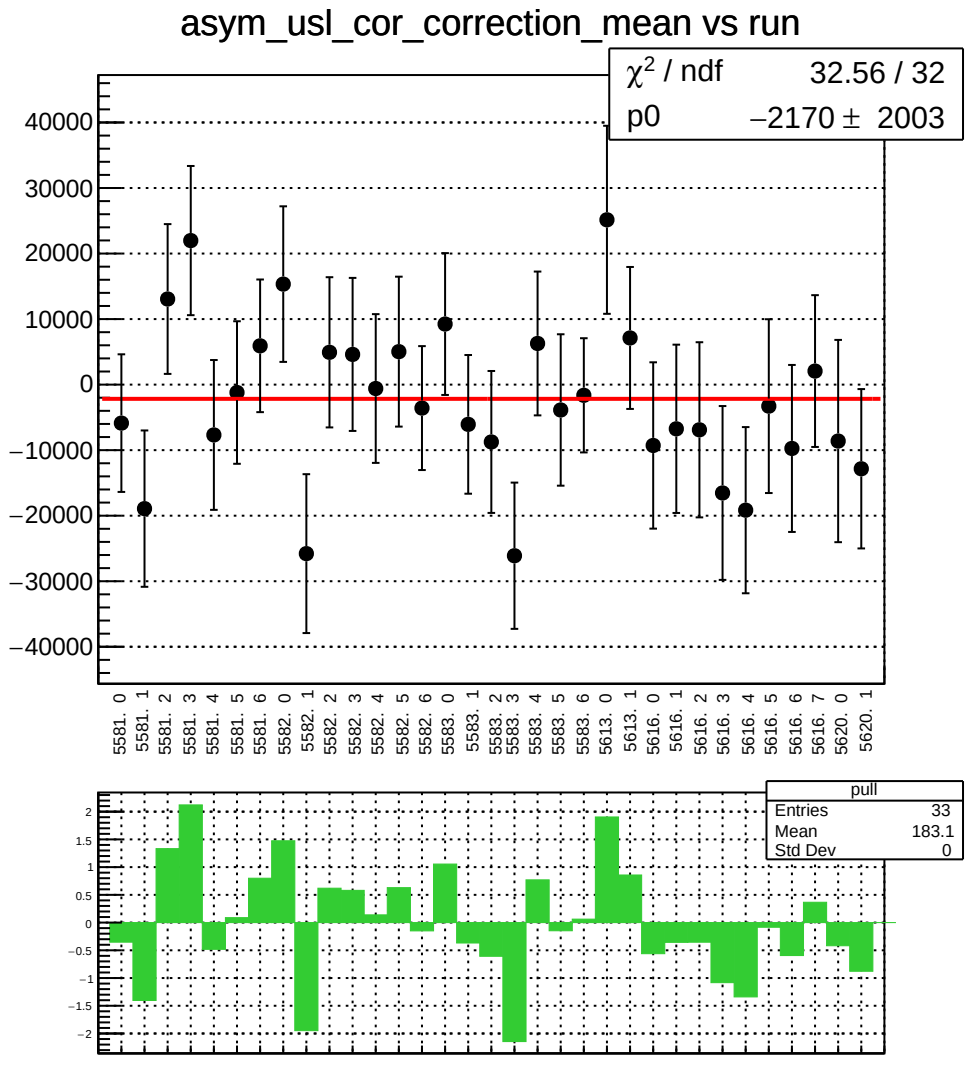

pull1D
Entries 33
Mean −0.01424
Std Dev 0.9932
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

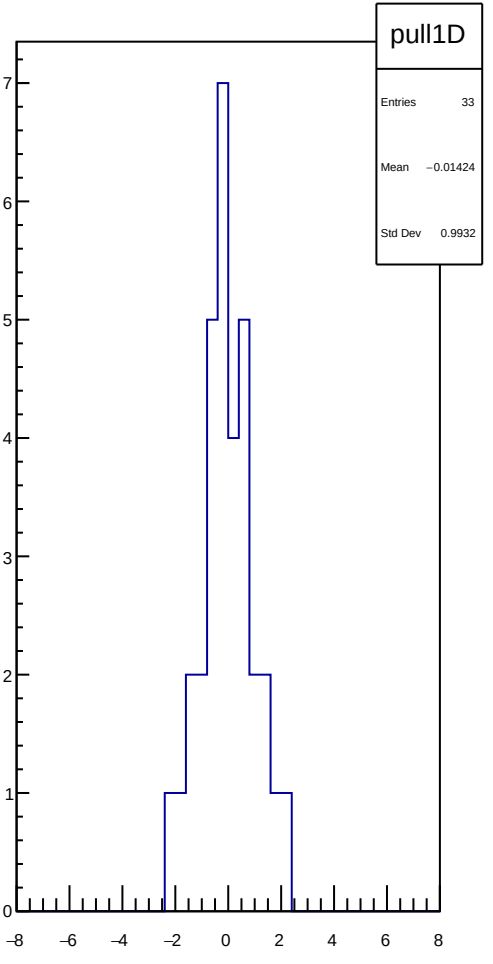

asym_usl_reg_correction_rms vs run
χ² / ndf 6507 / 32
p0 1138 ± 1.416
1500
1400
1300
1200
1100
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

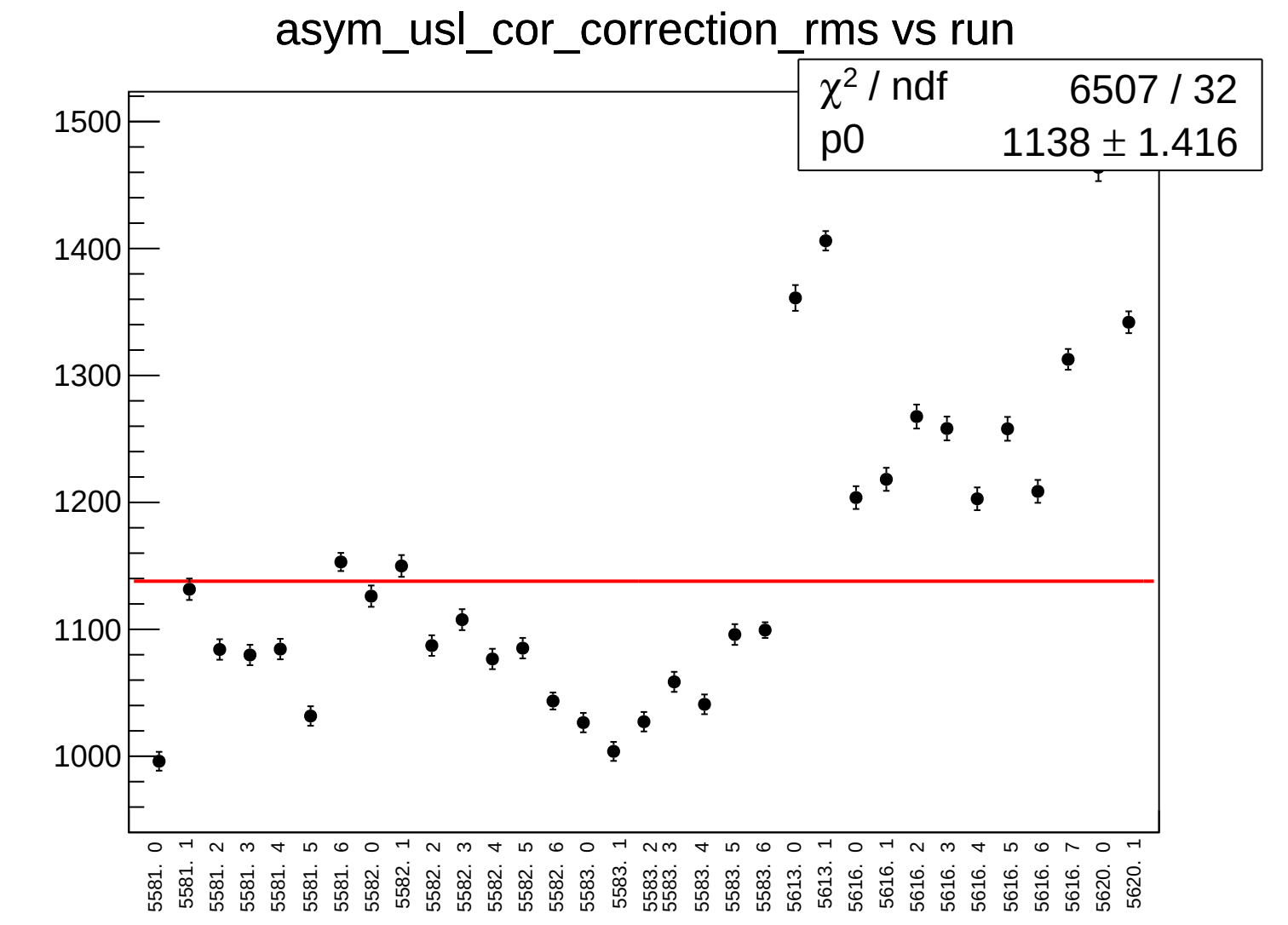

cor_asym_usl_mean vs run
χ² / ndf 33.27 / 32
p0 −1227 ± 1884
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 180.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

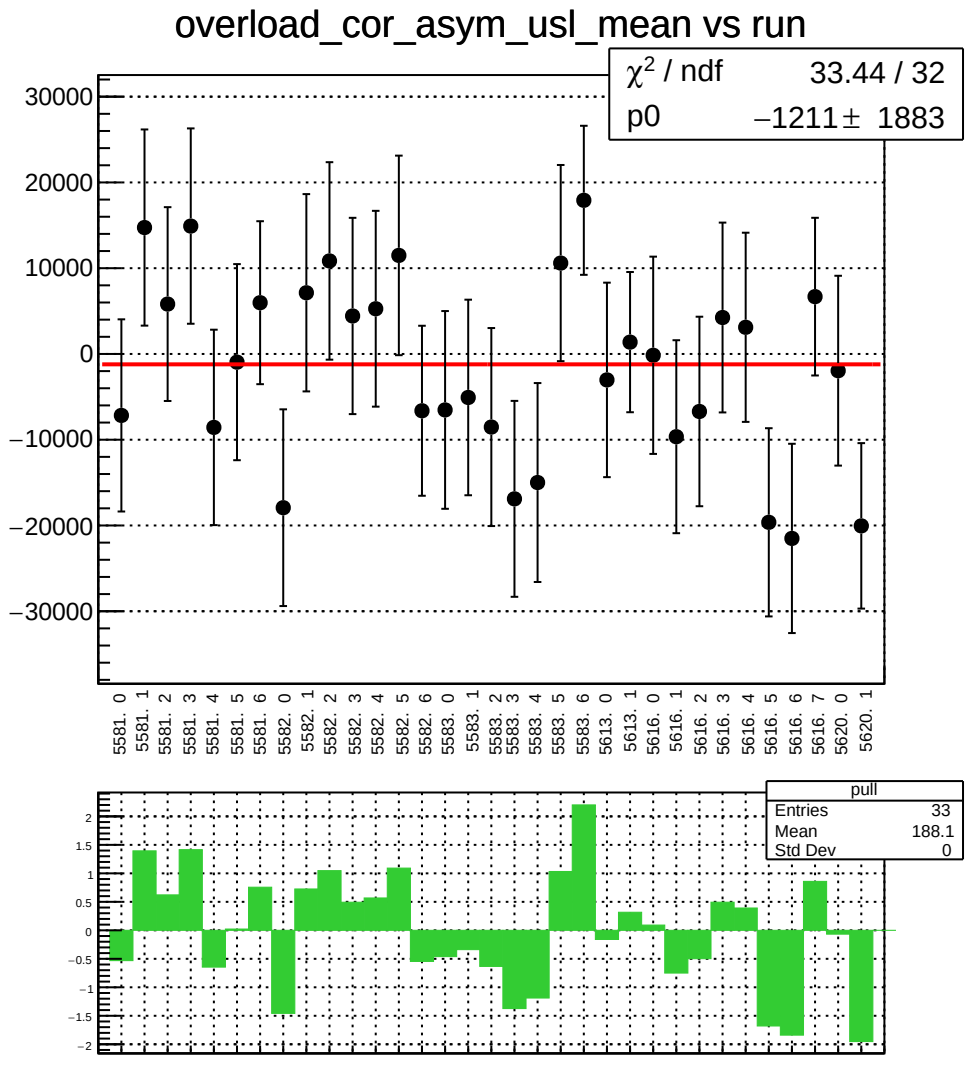

pull1D
Entries 33
Mean −0.01864
Std Dev 1.004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

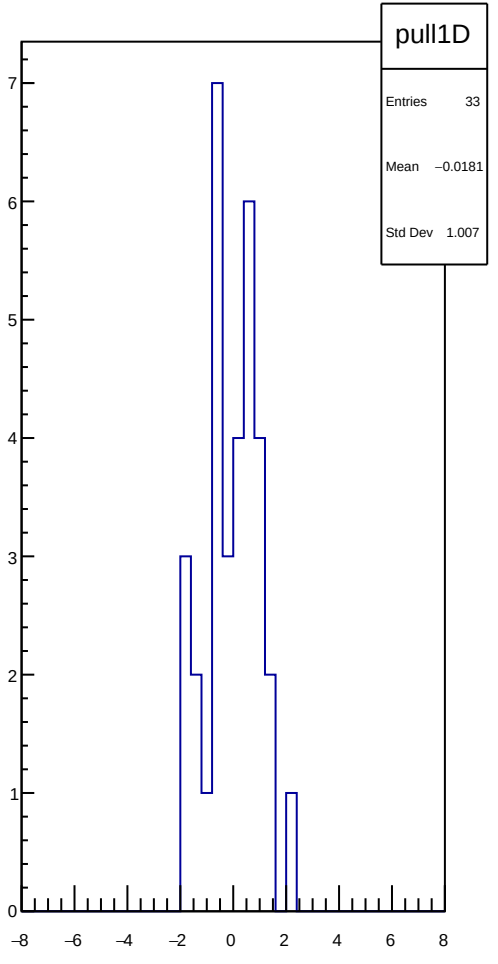

cor_asym_usl_rms vs run
χ² / ndf 194.2 / 32
p0 1076 ± 1.332
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

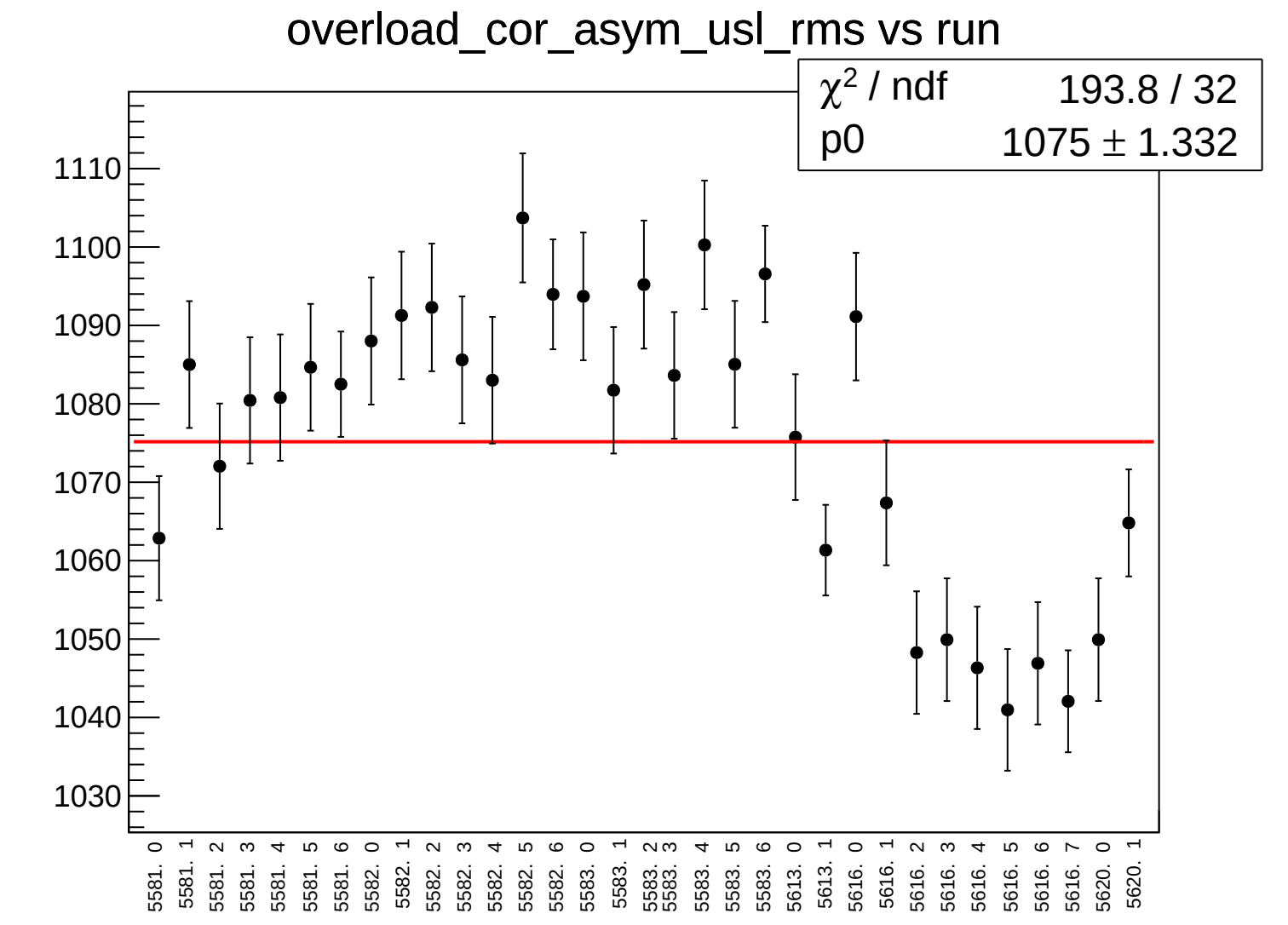

asym_usl_cor_correction_mean vs run
χ² / ndf 32.56 / 32
p0 −2170 ± 2003
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 183.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

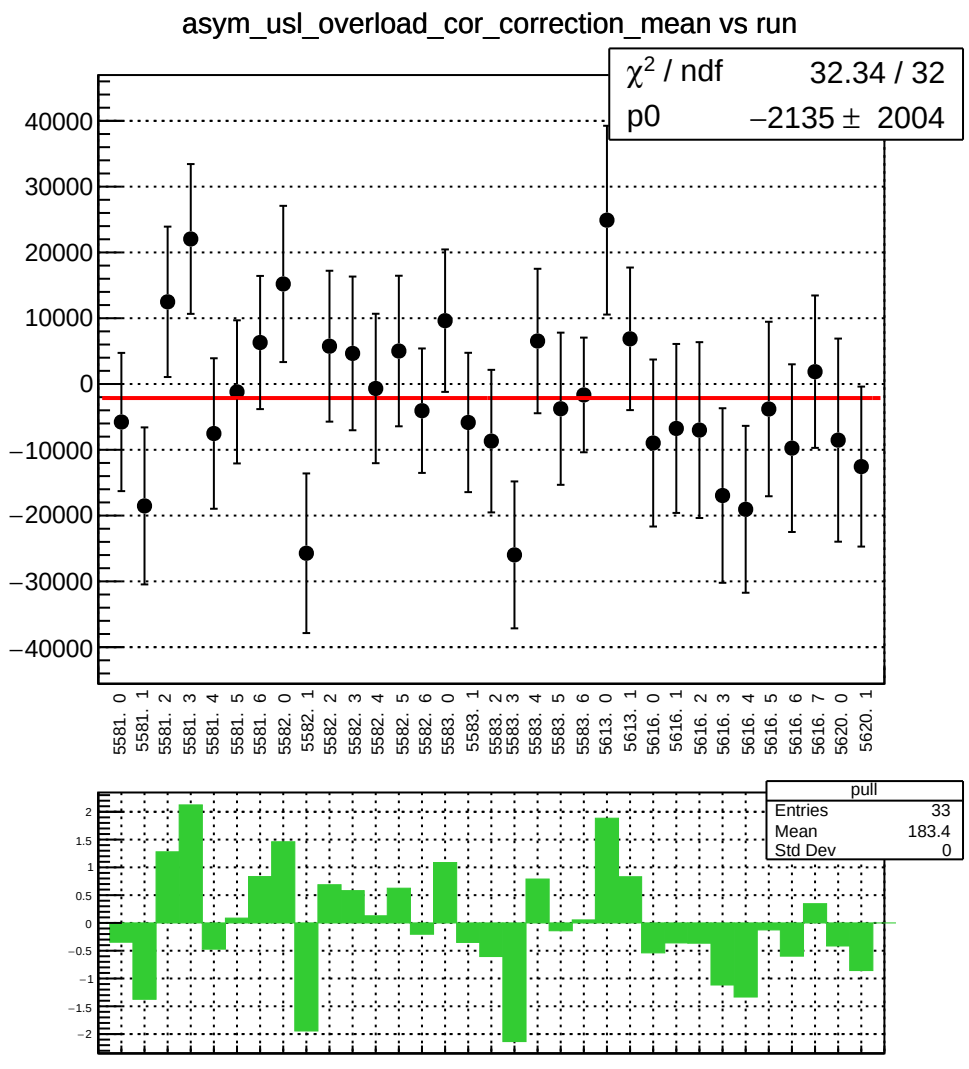

pull1D
Entries 33
Mean −0.01424
Std Dev 0.9932
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

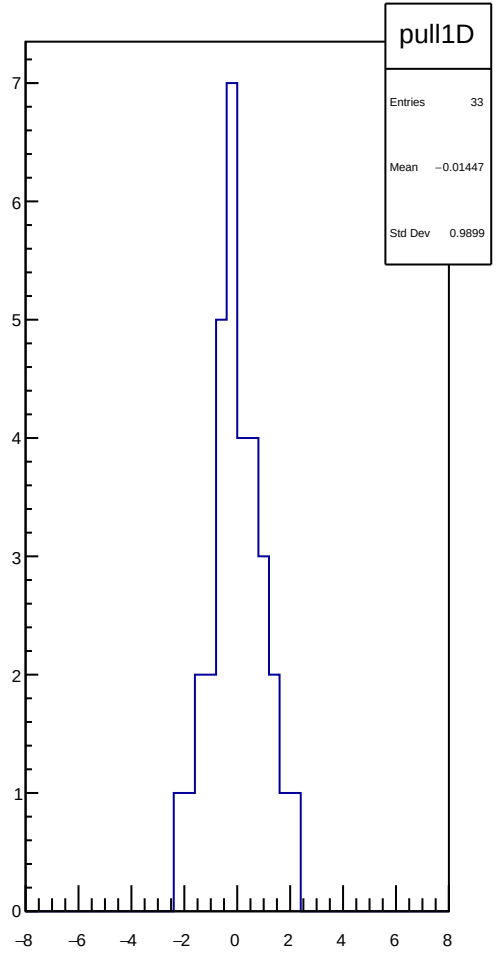

asym_usl_cor_correction_rms vs run
χ² / ndf 6507 / 32
p0 1138 ± 1.416
1500
1400
1300
1200
1100
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

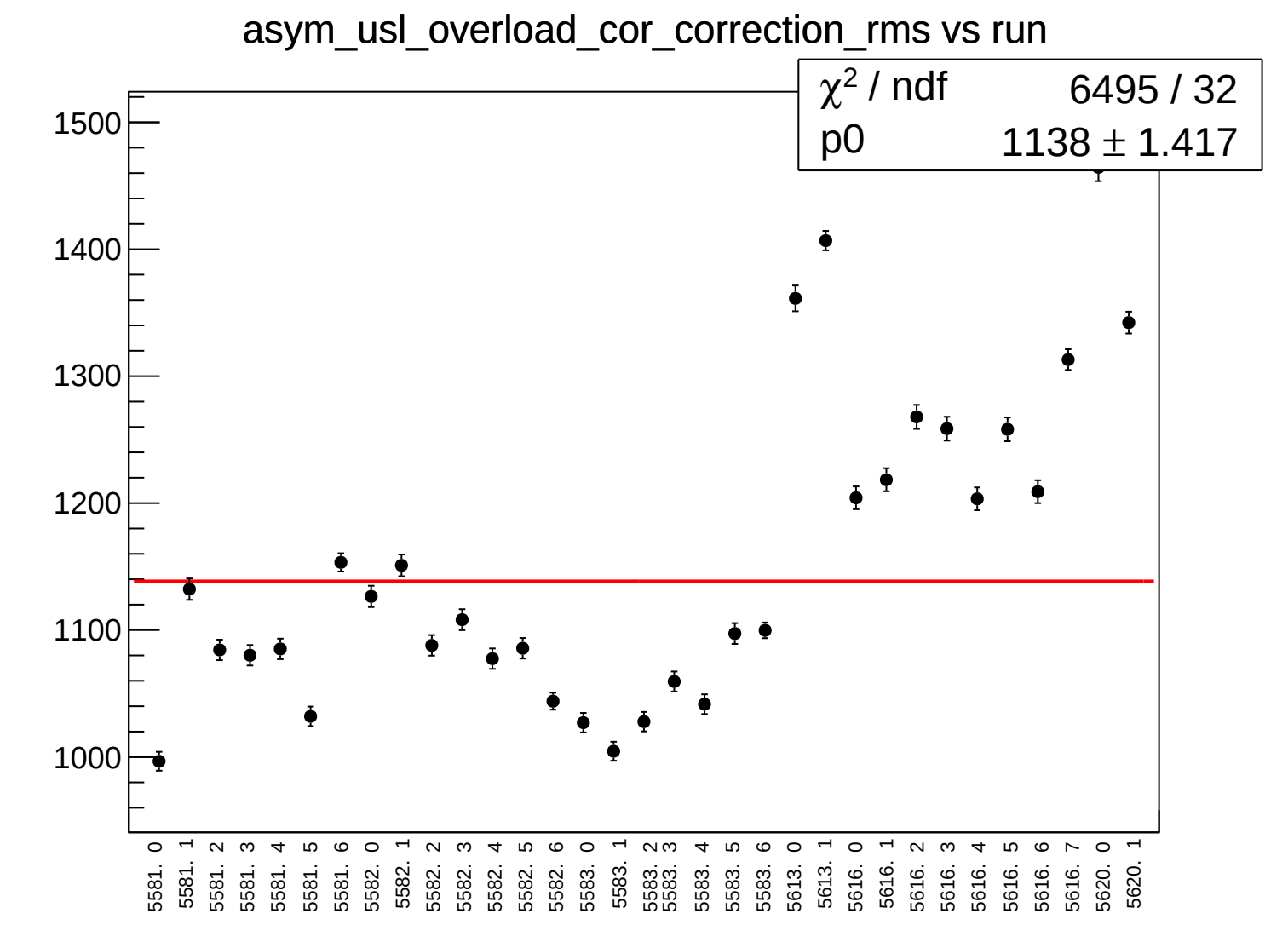

overload_cor_asym_usl_mean vs run
χ² / ndf 33.44 / 32
p0 −1211 ± 1883
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 188.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

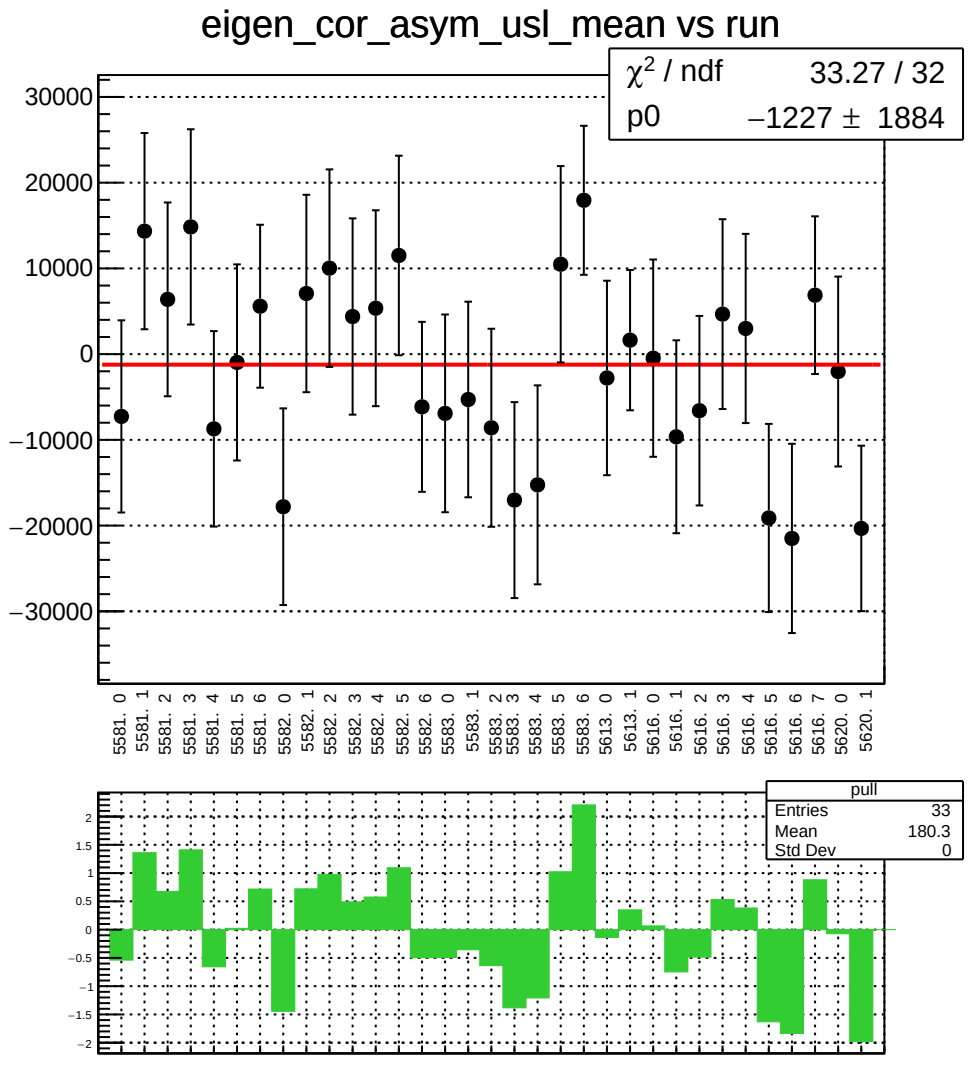

pull1D
Entries 33
Mean −0.0181
Std Dev 1.007
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

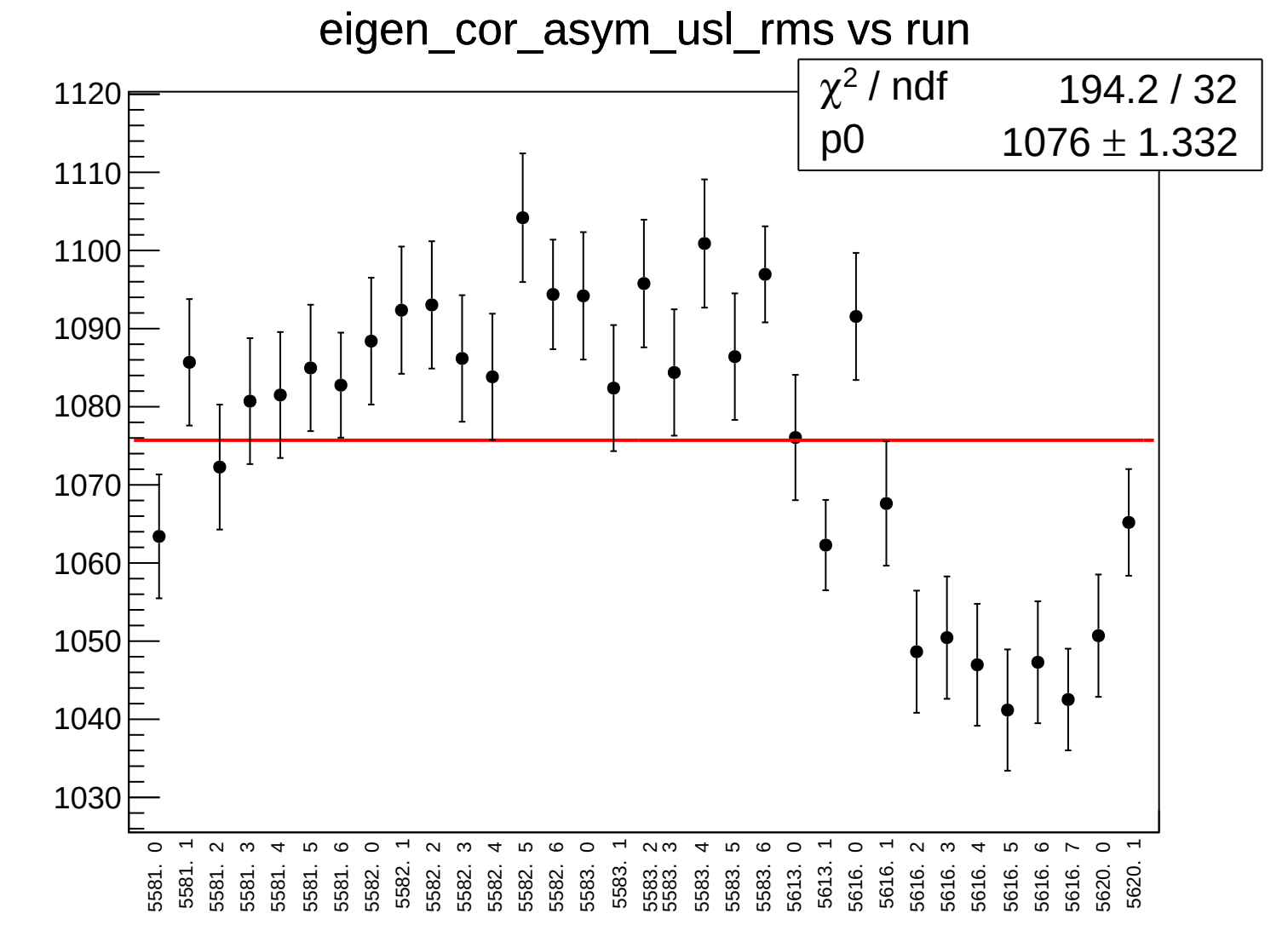

overload_cor_asym_usl_rms vs run
χ² / ndf 193.8 / 32
p0 1075 ± 1.332
1110
1100
1090
1080
1070
1060
1050
1040
1030
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

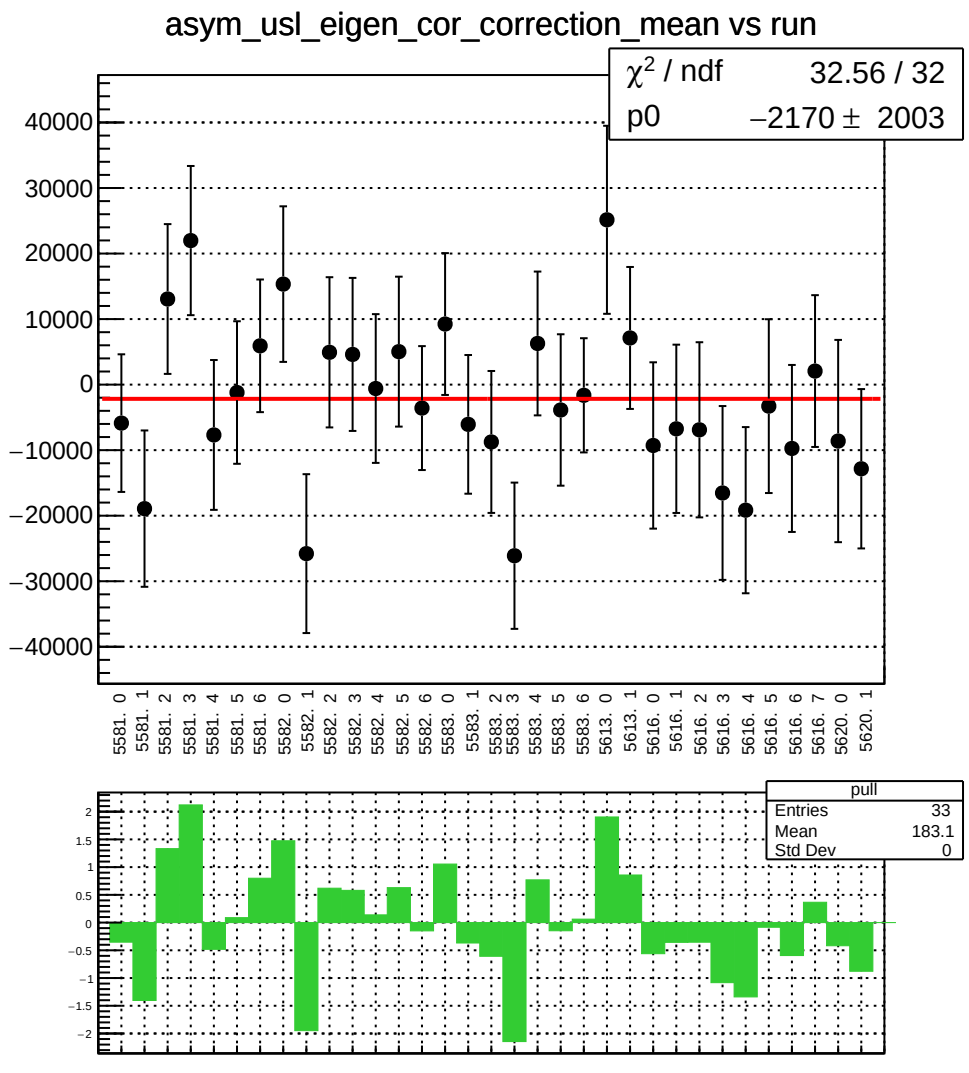

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 32.34 / 32
p0 −2135 ± 2004
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 183.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

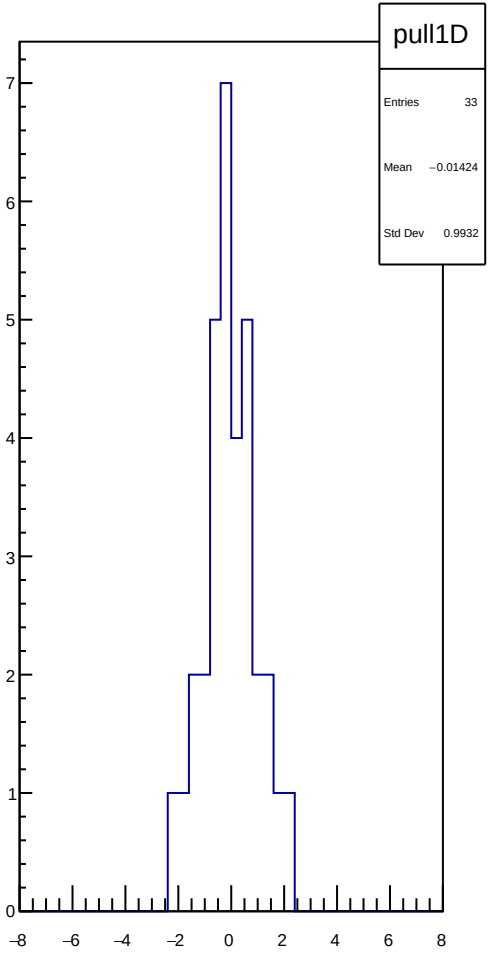

pull1D
Entries 33
Mean −0.01447
Std Dev 0.9899
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

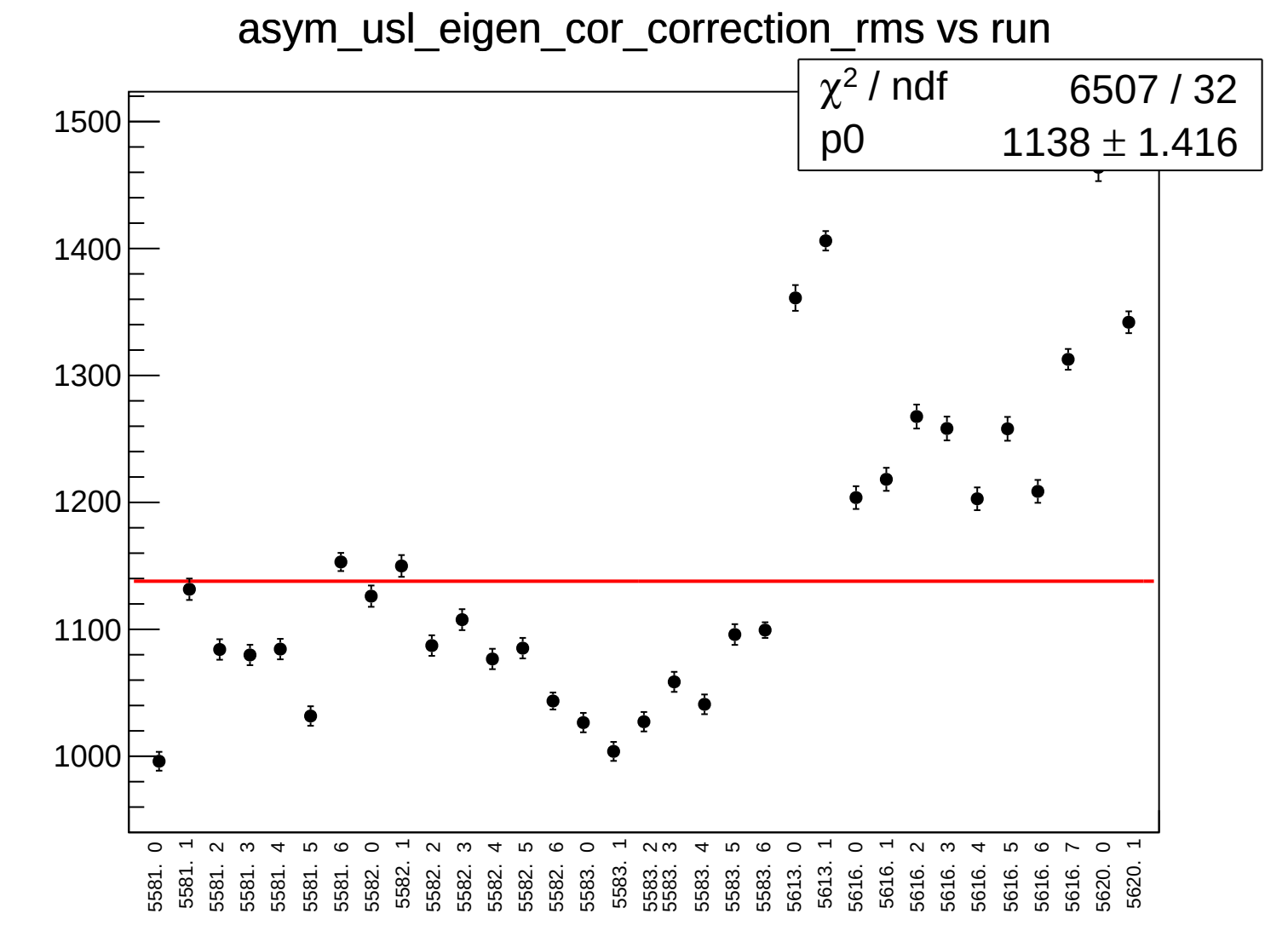

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 6495 / 32
p0 1138 ± 1.417
1500
1400
1300
1200
1100
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

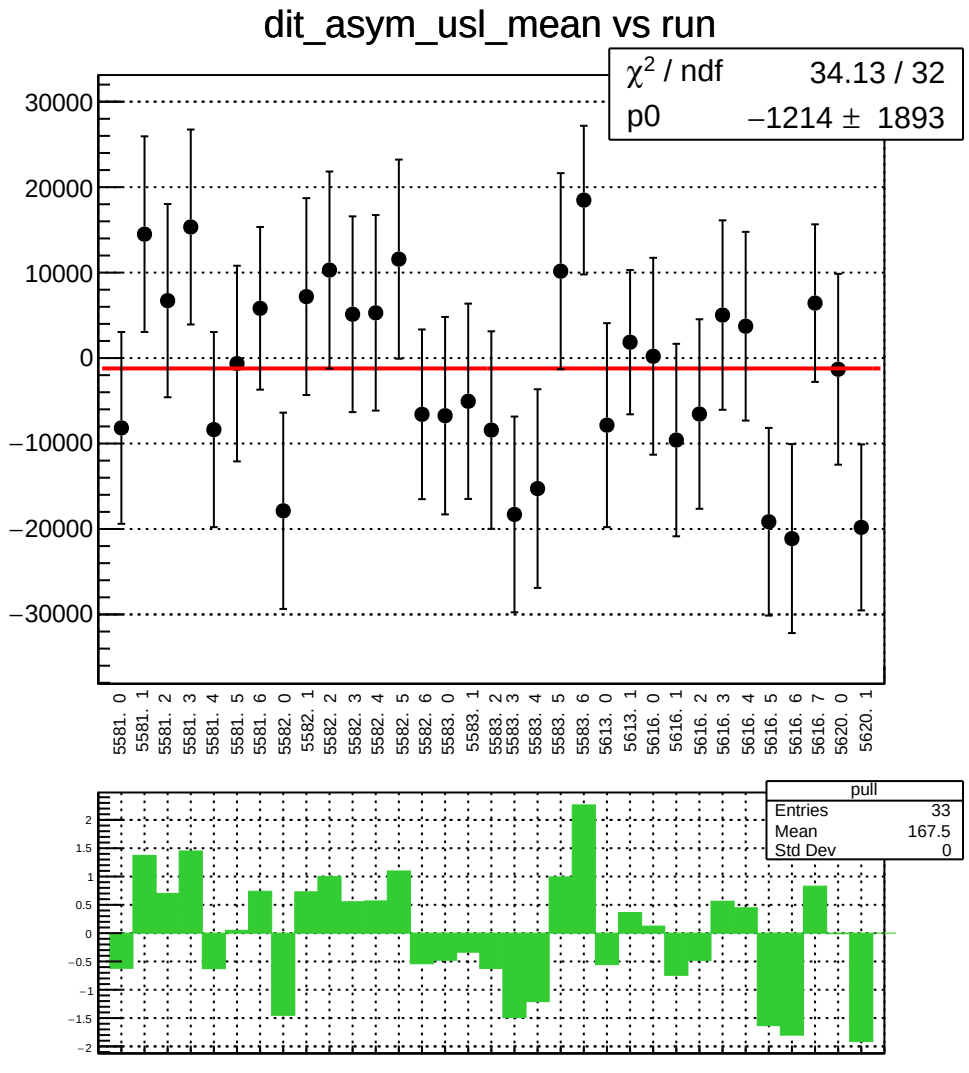

eigen_cor_asym_usl_mean vs run
χ² / ndf 33.27 / 32
p0 −1227 ± 1884
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 180.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01864
Std Dev 1.004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

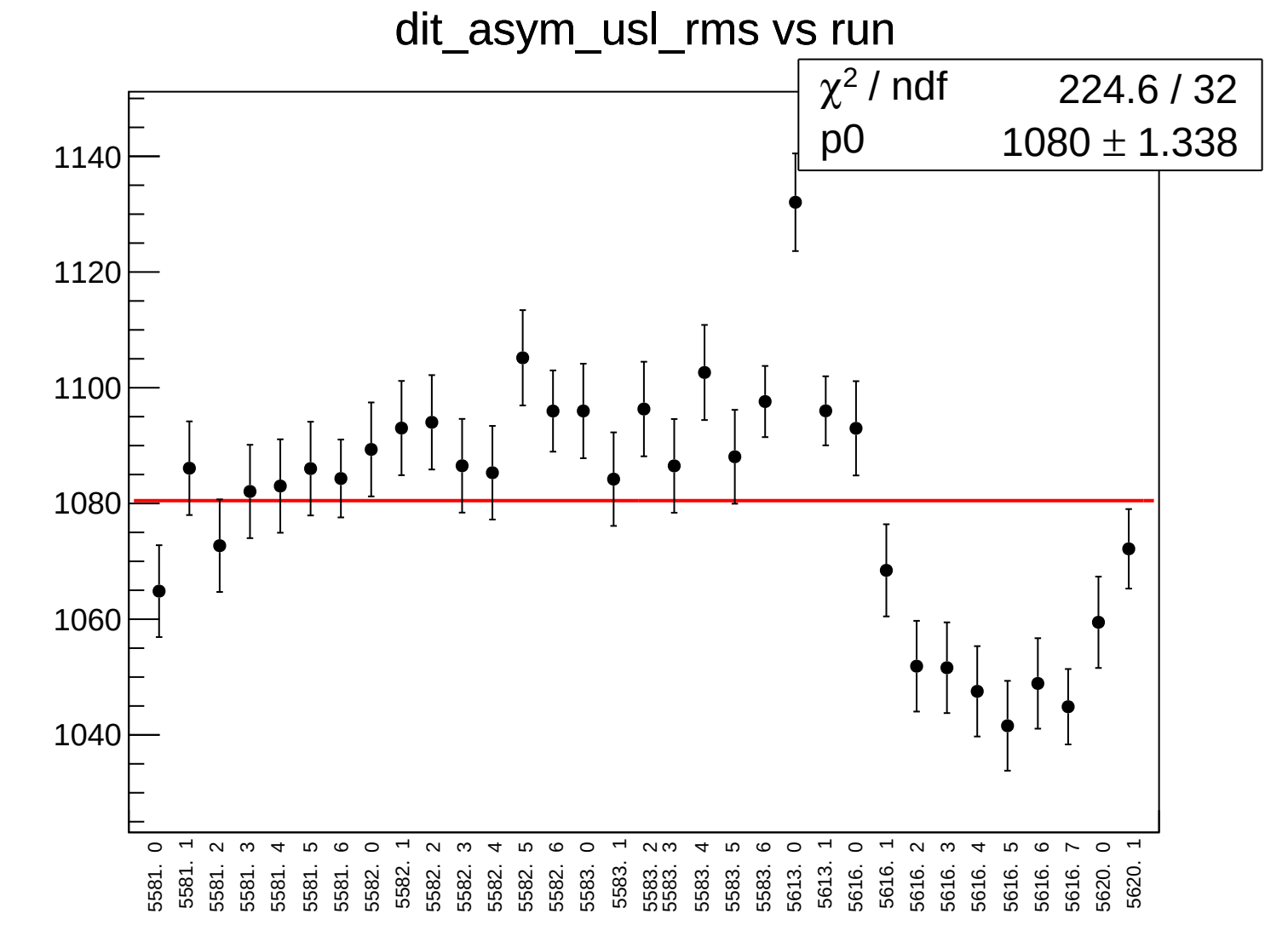

eigen_cor_asym_usl_rms vs run
χ² / ndf 194.2 / 32
p0 1076 ± 1.332
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

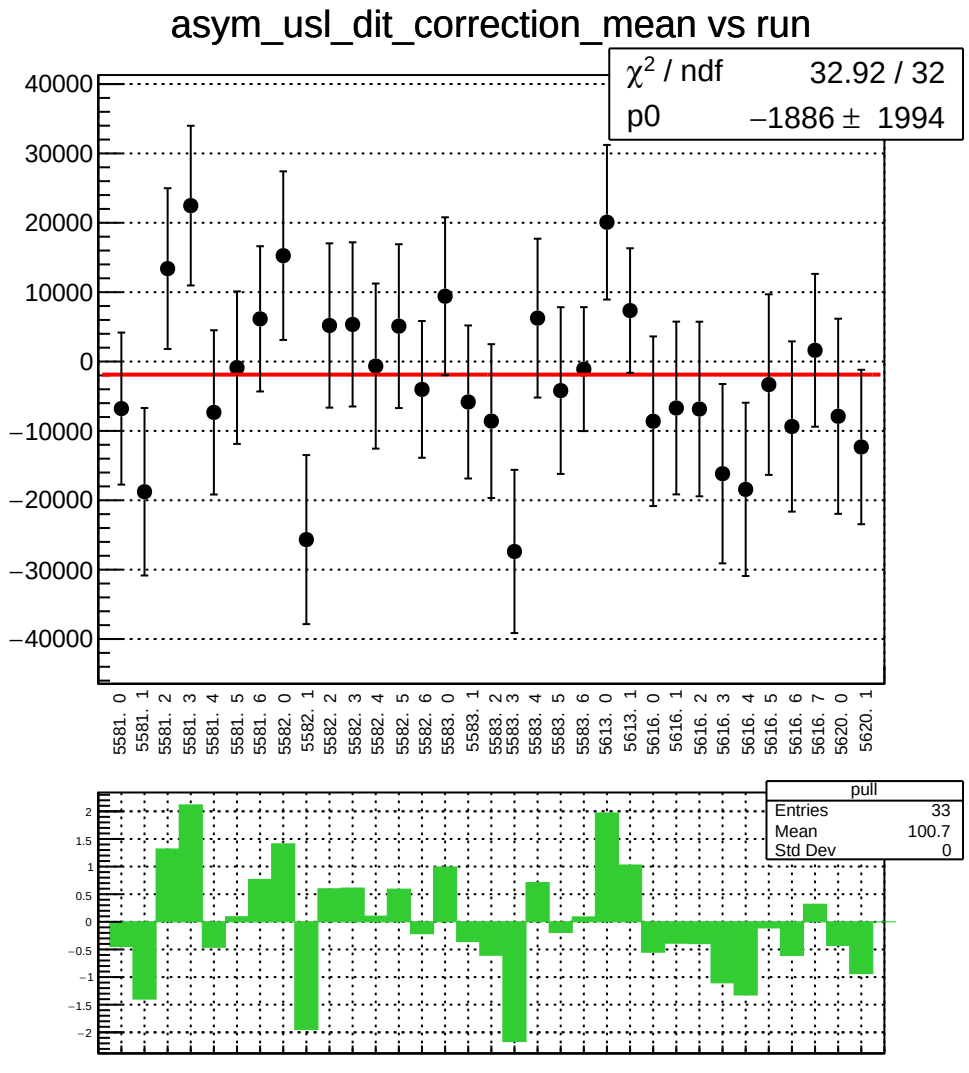

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 32.56 / 32
p0 −2170 ± 2003
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 183.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

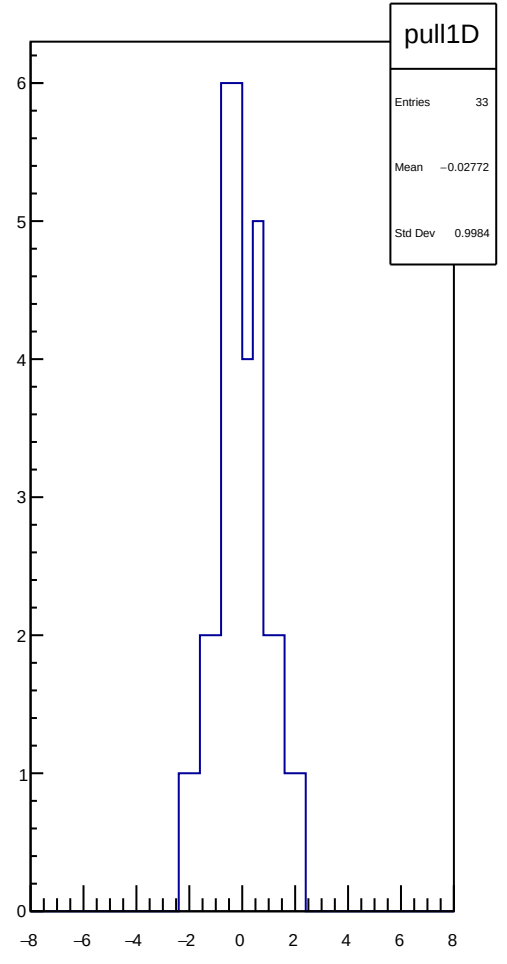

pull1D
Entries 33
Mean −0.01424
Std Dev 0.9932
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

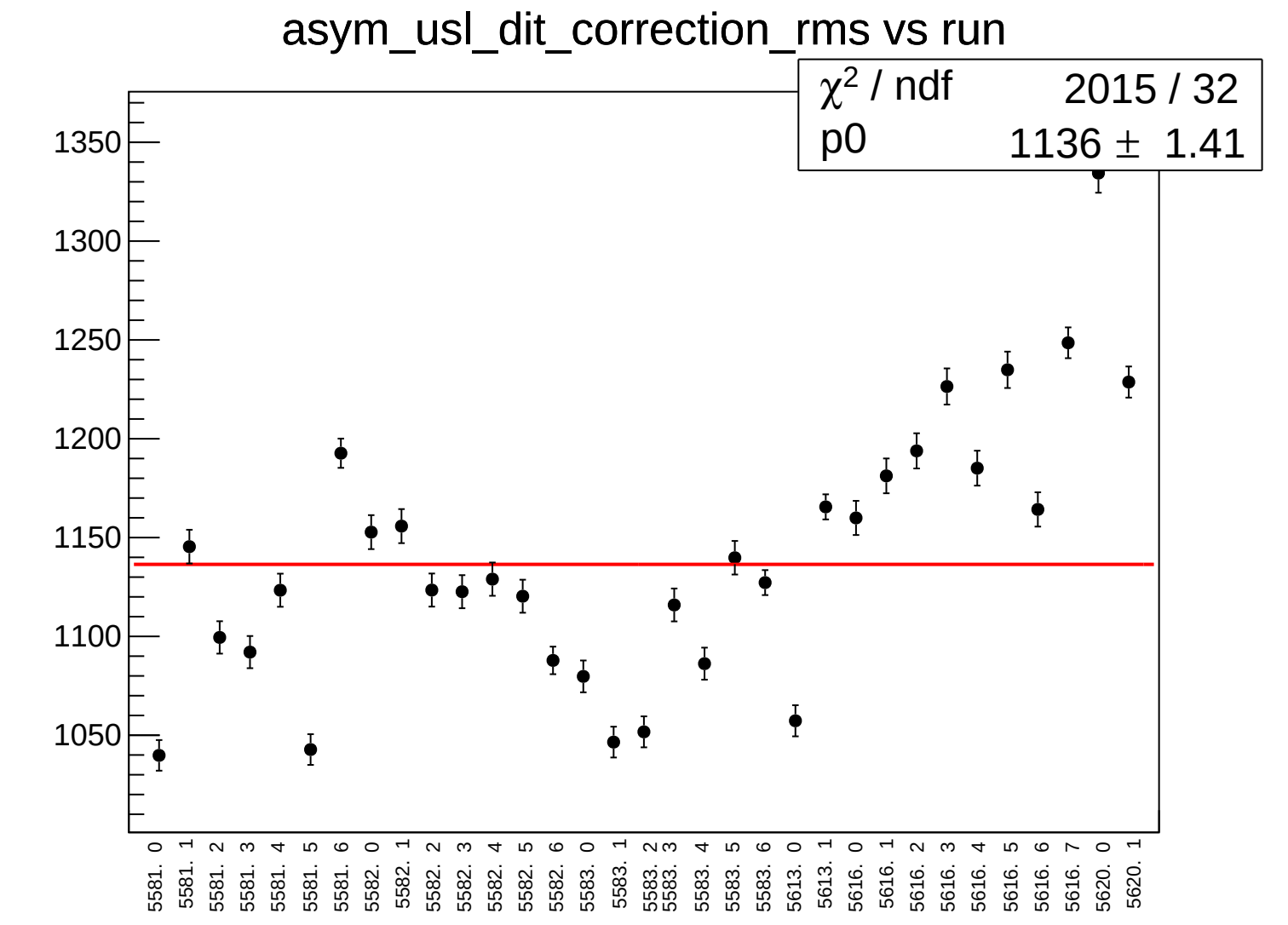

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 6507 / 32
p0 1138 ± 1.416
1500
1400
1300
1200
1100
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

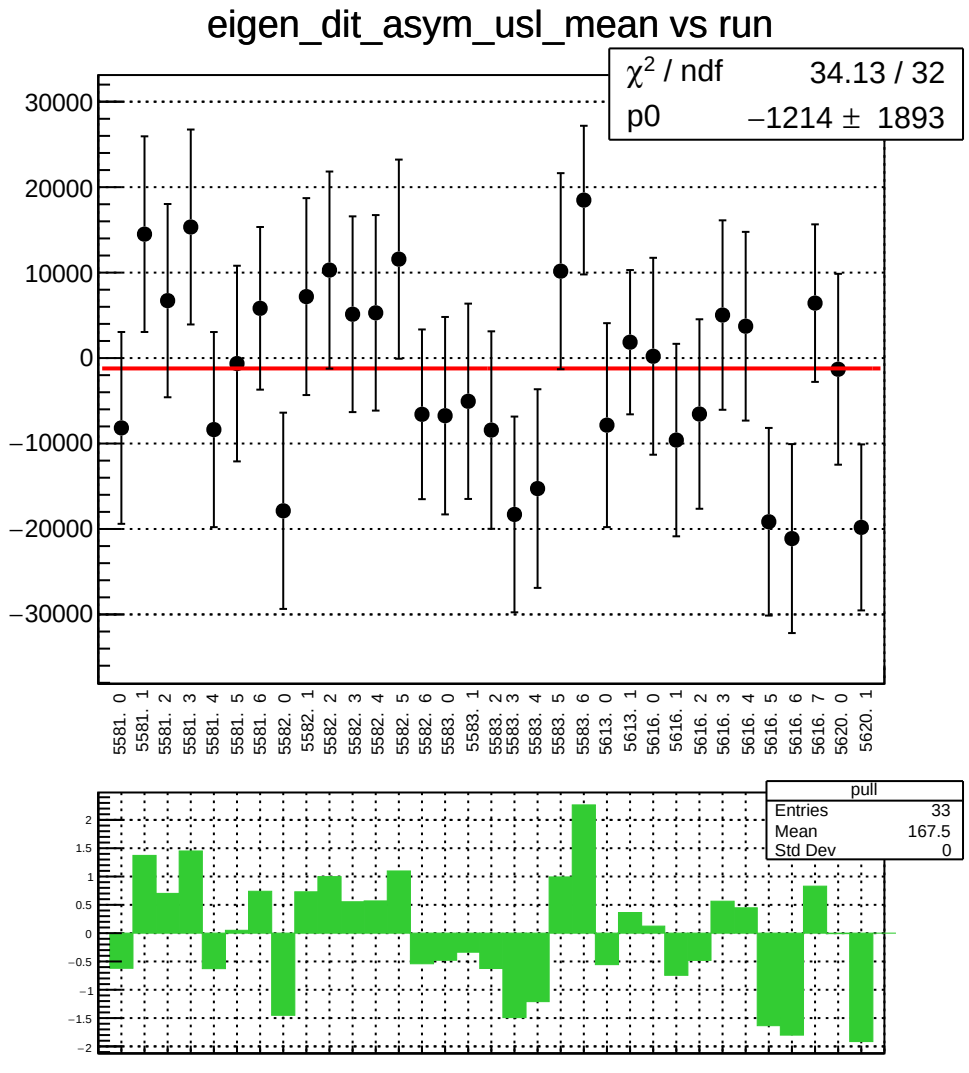

dit_asym_usl_mean vs run
χ² / ndf 34.13 / 32
p0 −1214 ± 1893
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 167.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02021
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

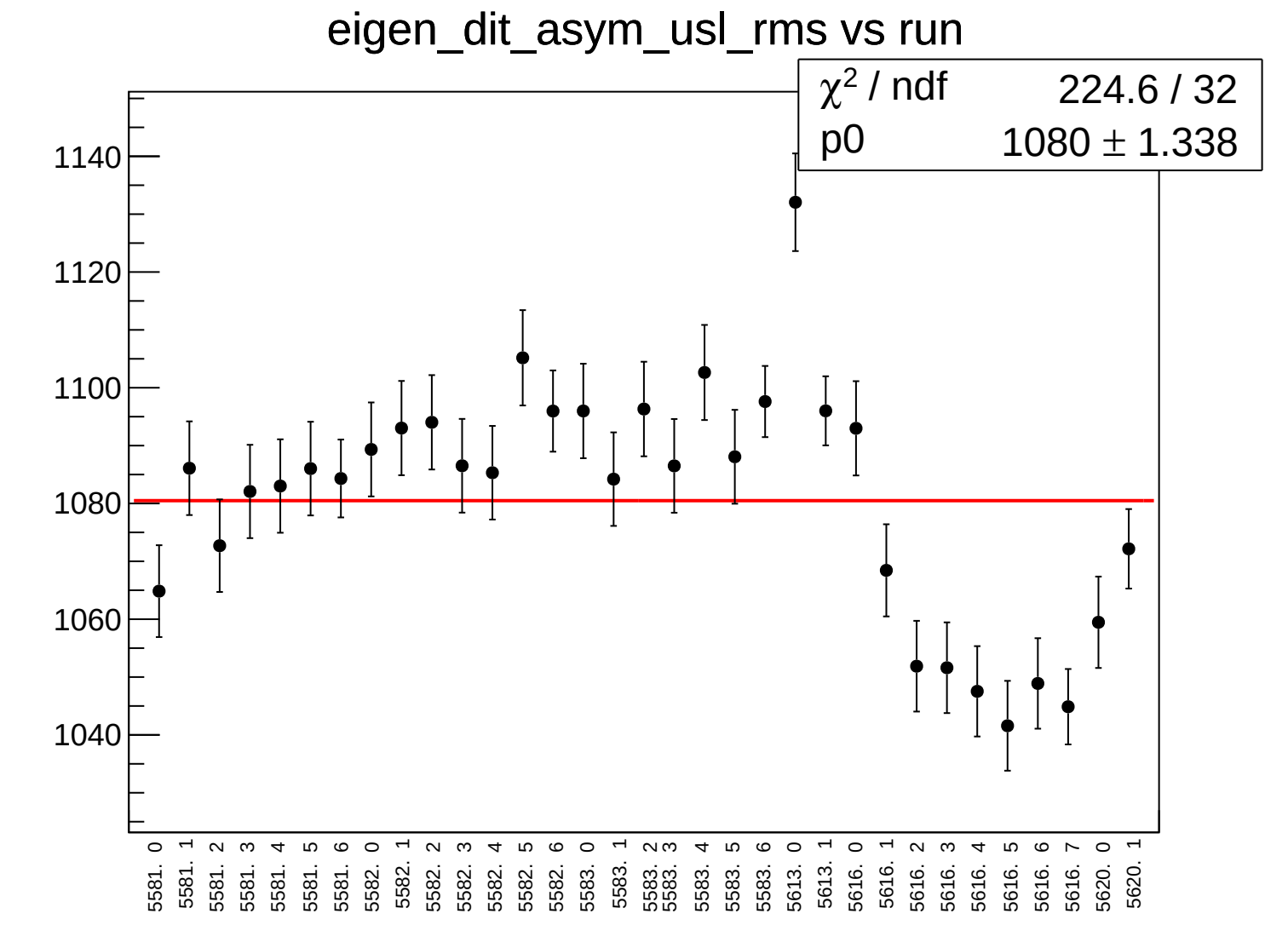

dit_asym_usl_rms vs run
χ² / ndf 224.6 / 32
p0 1080 ± 1.338
1140
1120
1100
1080
1060
1040
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

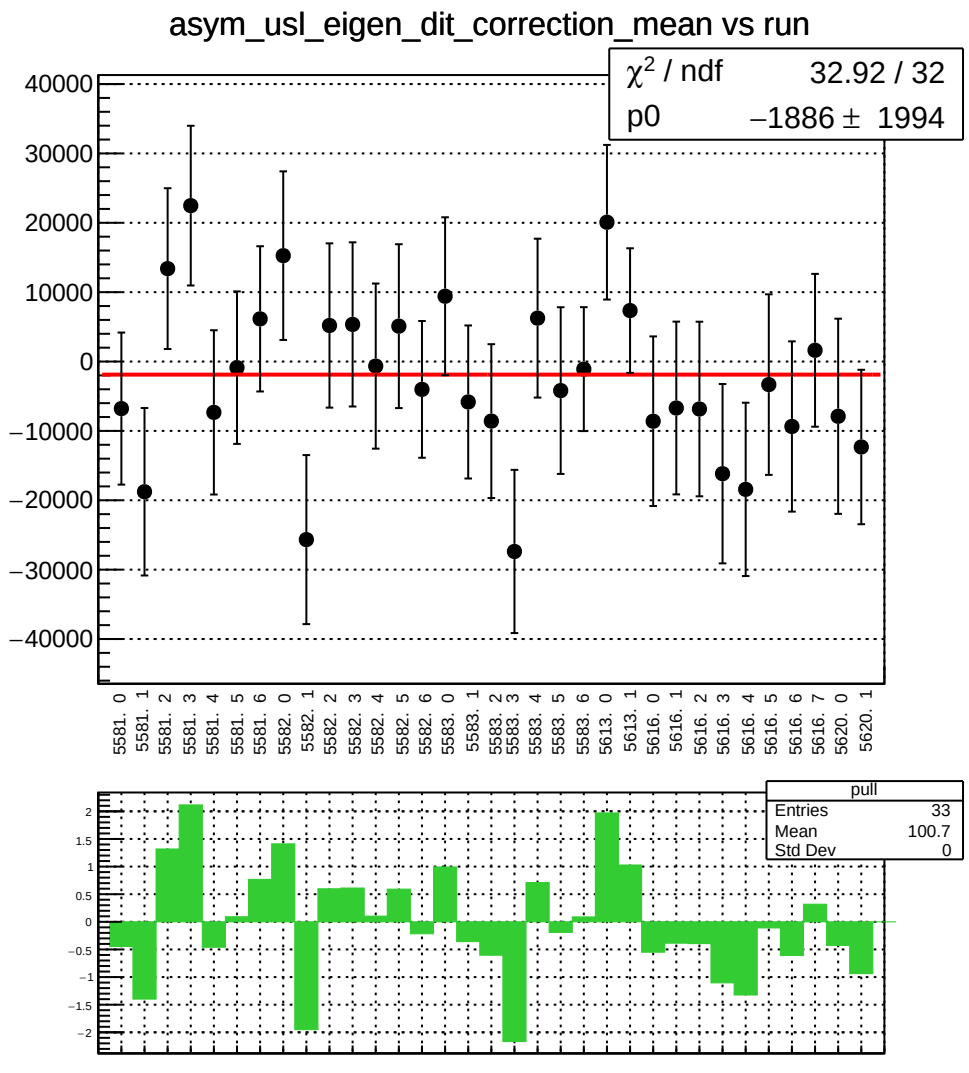

asym_usl_dit_correction_mean vs run
χ² / ndf 32.92 / 32
p0 −1886 ± 1994
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 100.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

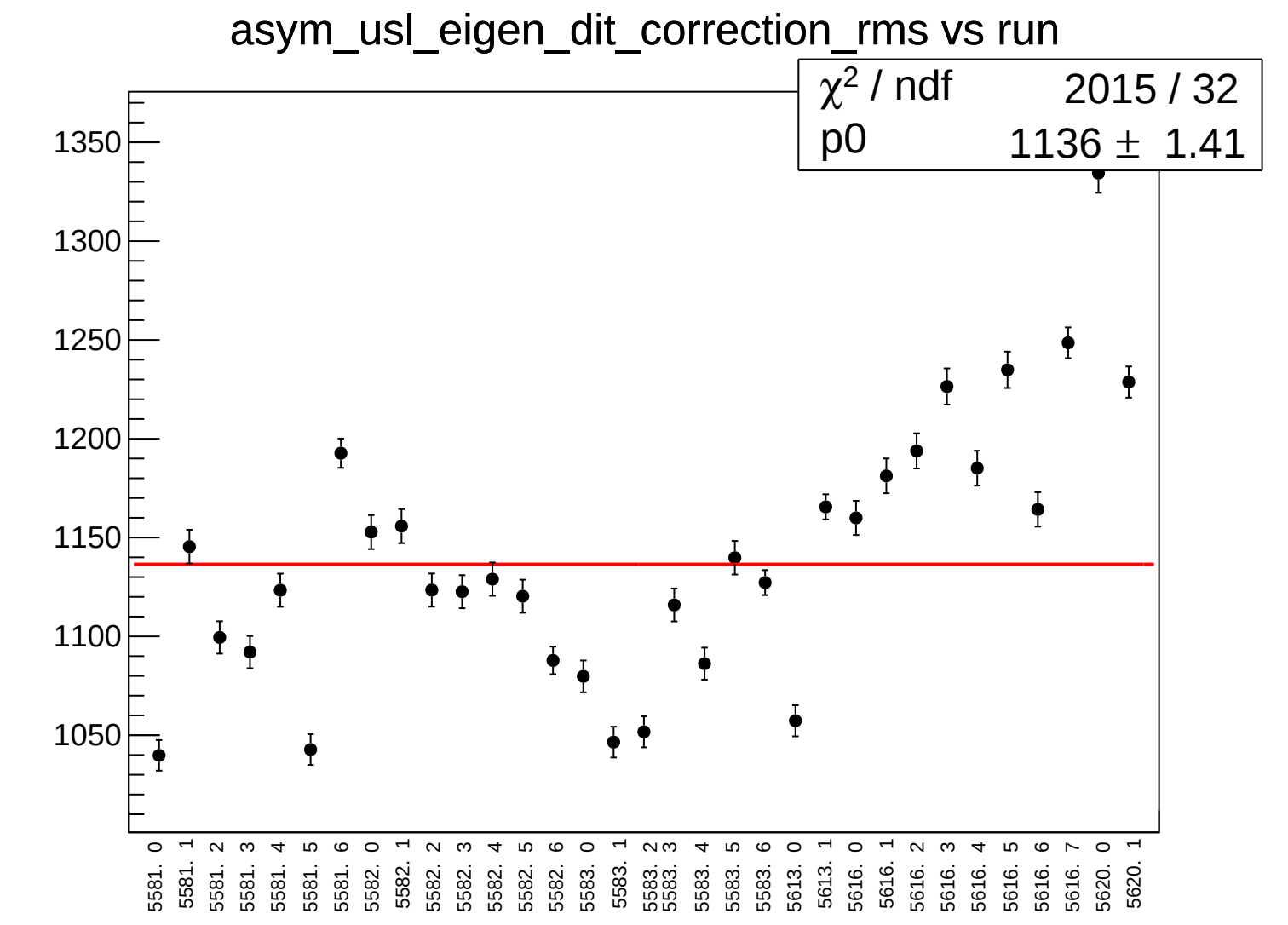

pull1D
Entries 33
Mean −0.02772
Std Dev 0.9984
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

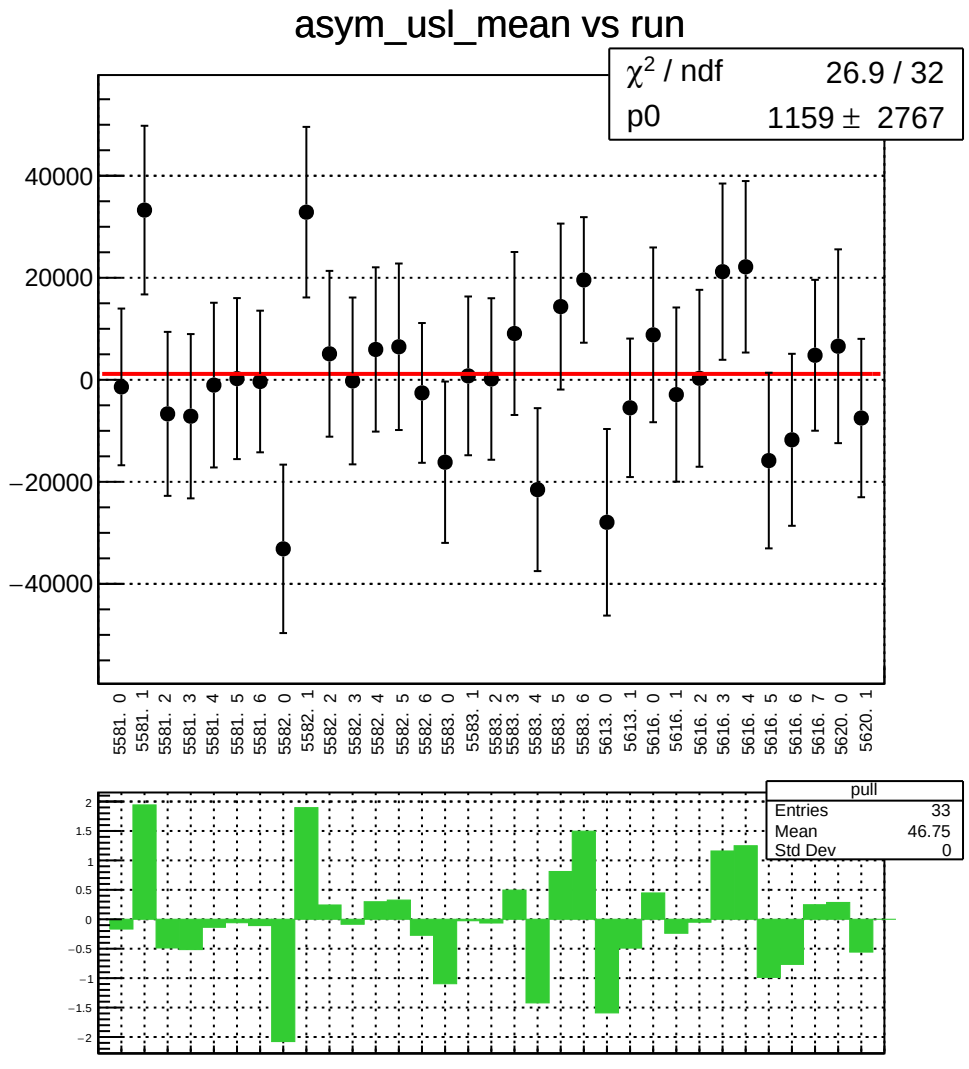

asym_usl_dit_correction_rms vs run
χ² / ndf 2015 / 32
p0 1136 ± 1.41
1350
1300
1250
1200
1150
1100
1050
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

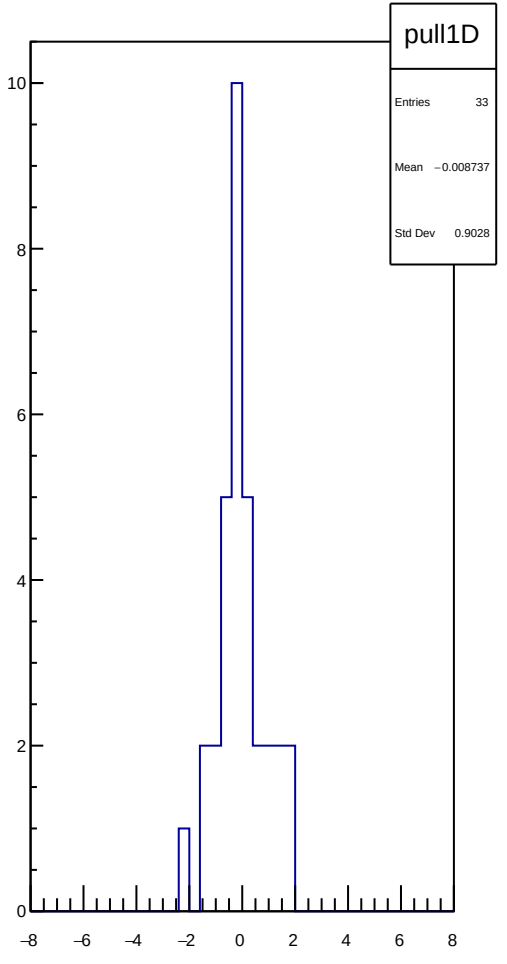

eigen_dit_asym_usl_mean vs run
χ² / ndf 34.13 / 32
p0 −1214 ± 1893
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 167.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02021
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

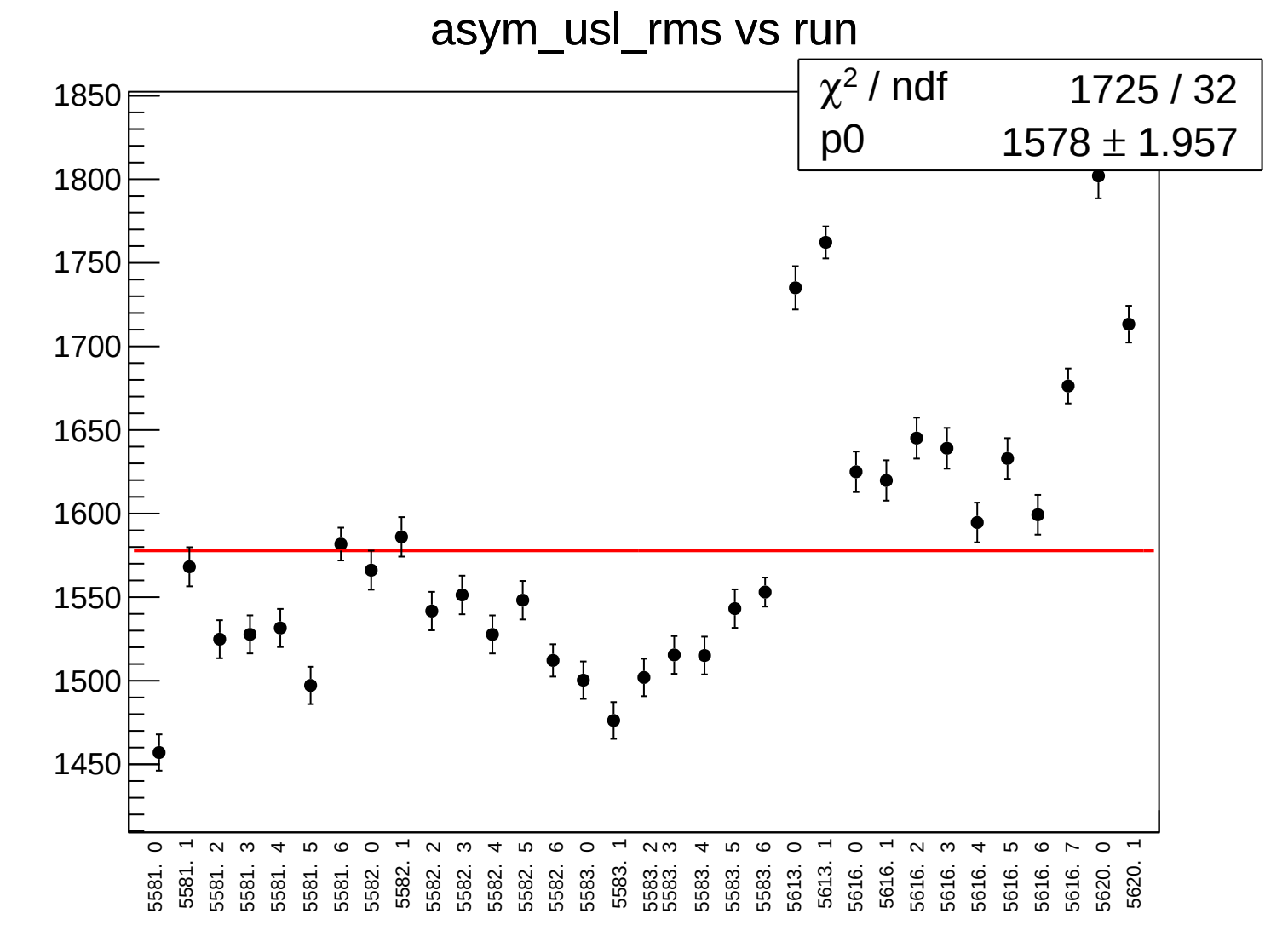

eigen_dit_asym_usl_rms vs run
χ² / ndf 224.6 / 32
p0 1080 ± 1.338
1140
1120
1100
1080
1060
1040
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

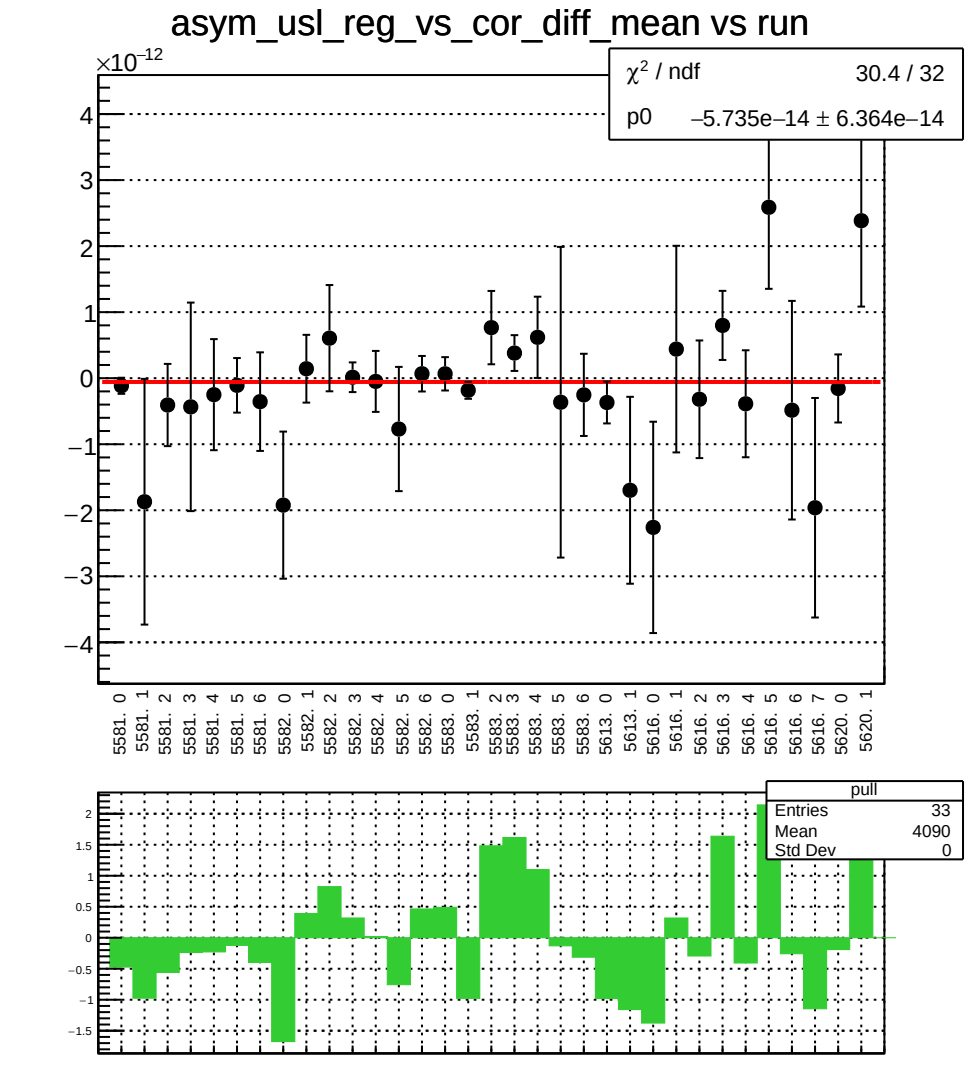

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 32.92 / 32
p0 −1886 ± 1994
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 100.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02772
Std Dev 0.9984
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

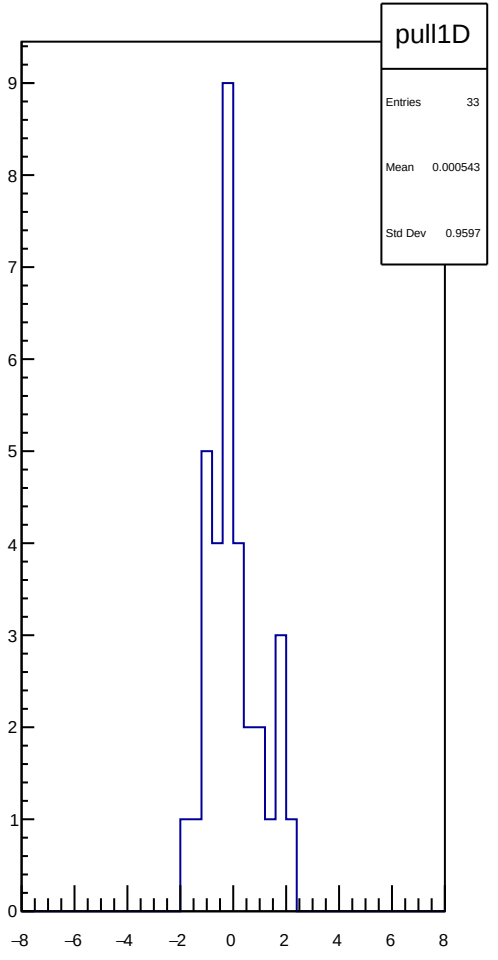

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 2015 / 32
p0 1136 ± 1.41
1350
1300
1250
1200
1150
1100
1050
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

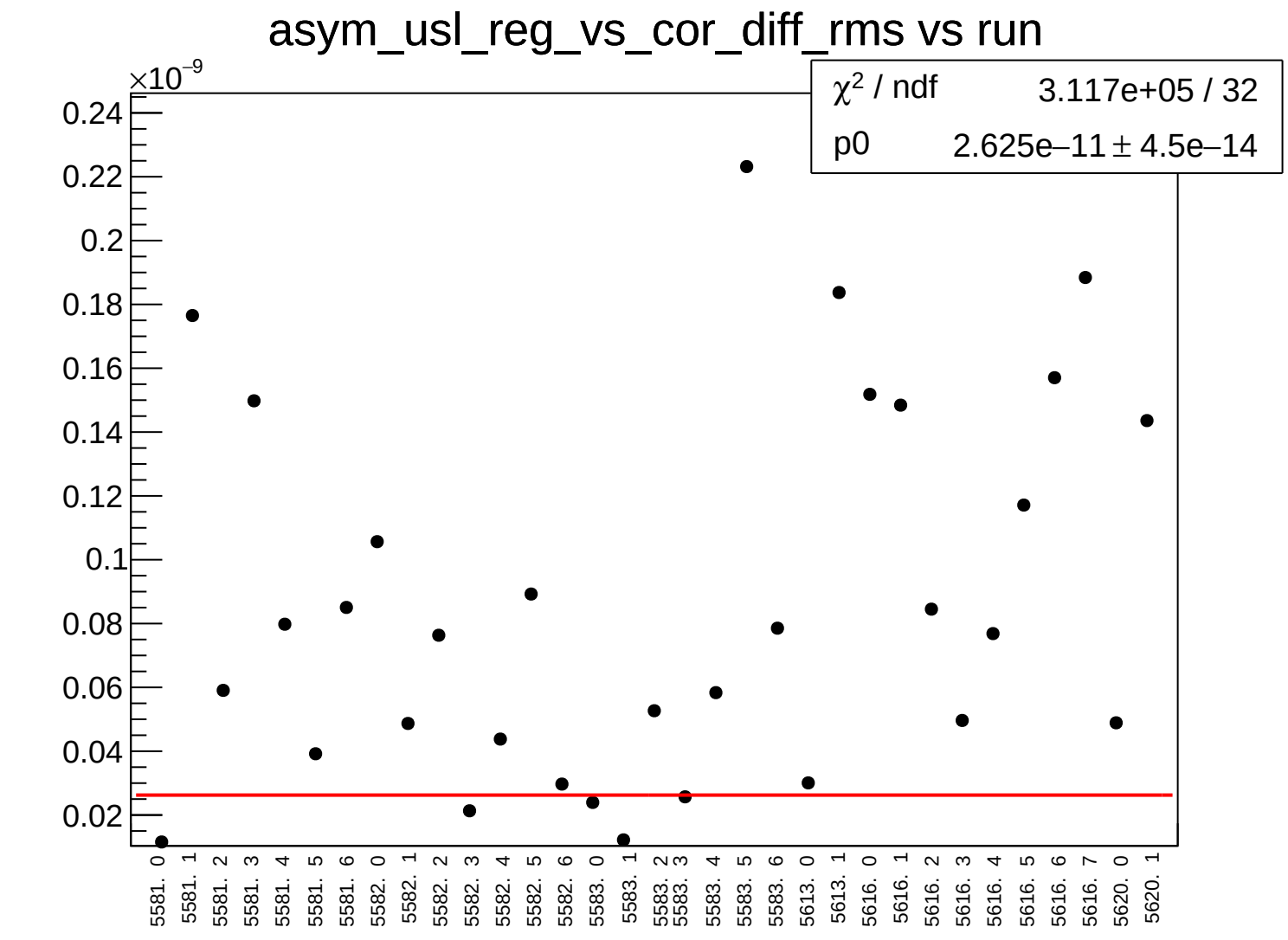

asym_usl_mean vs run
χ² / ndf 26.9 / 32
p0 1159 ± 2767
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 46.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

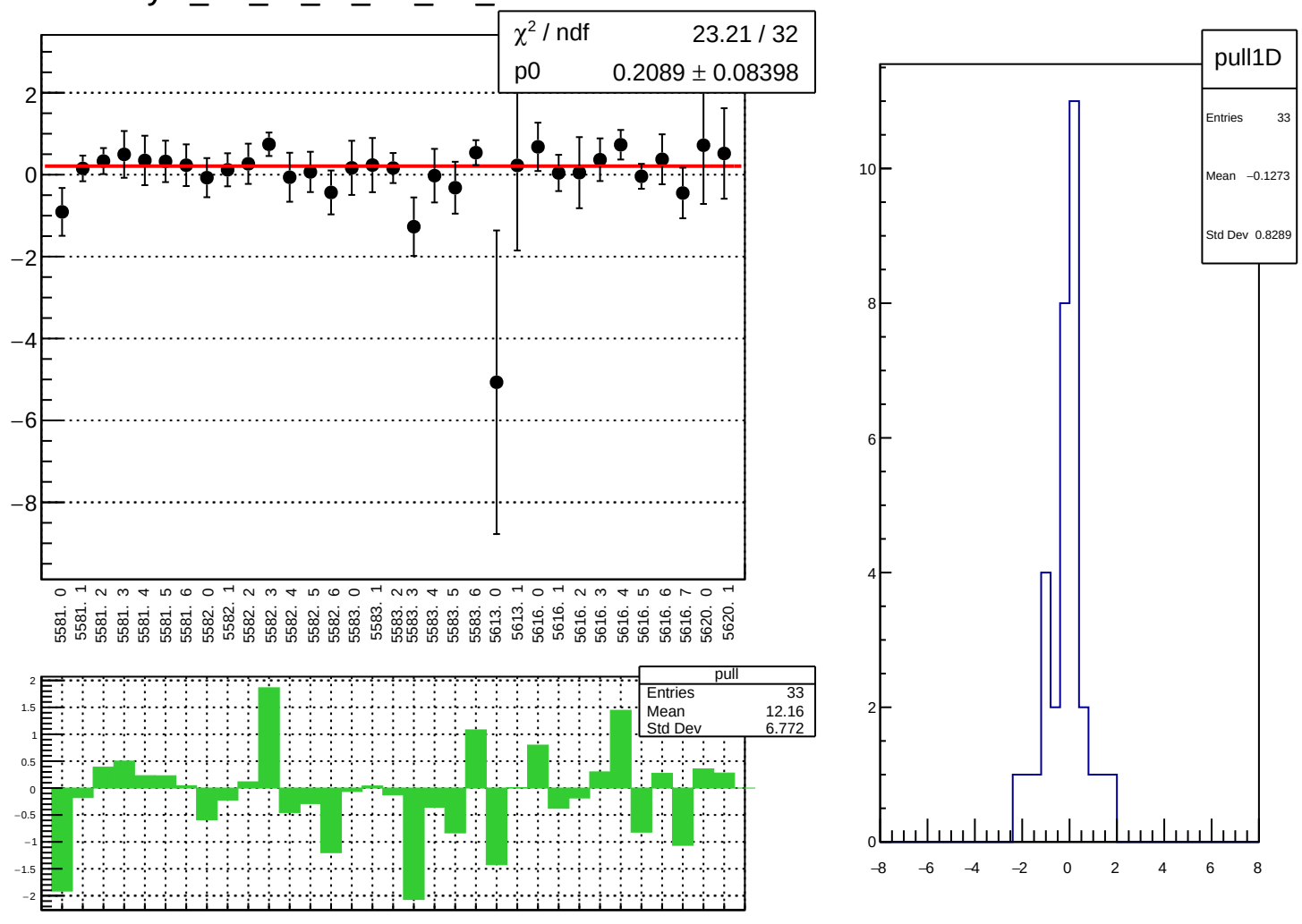

pull1D
Entries 33
Mean −0.008737
Std Dev 0.9028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

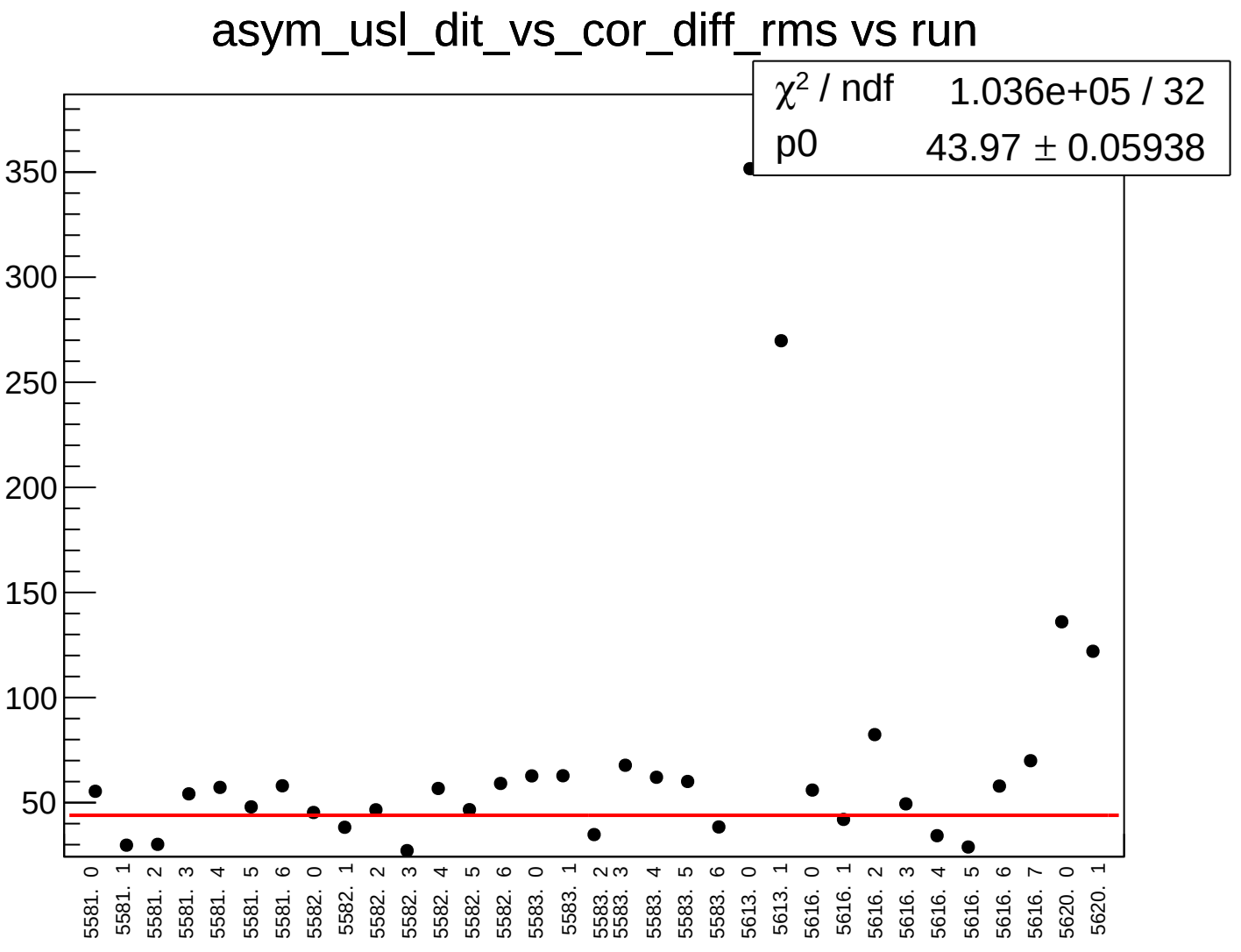

asym_usl_rms vs run
χ² / ndf 1725 / 32
p0 1578 ± 1.957
1850
1800
1750
1700
1650
1600
1550
1500
1450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

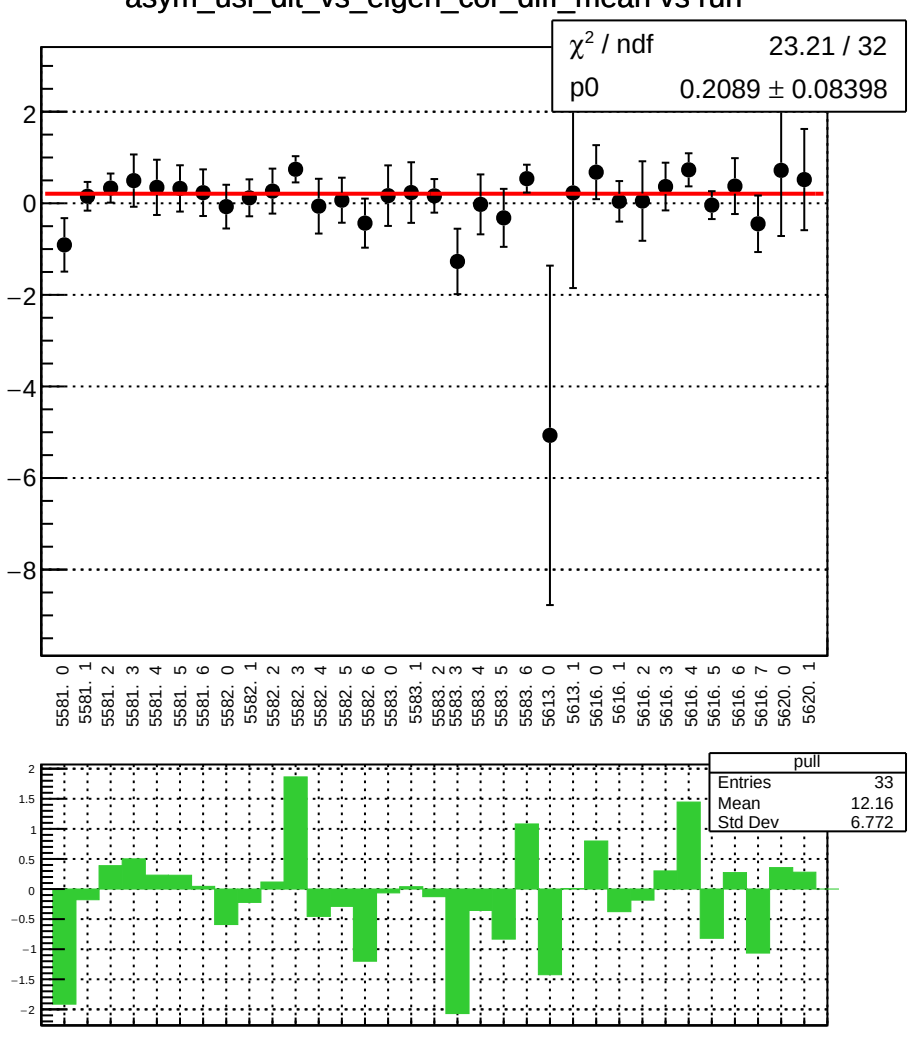

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.4 / 32
p0 −5.735e−14 ± 6.364e−14
4
3
2
1
0
−1
−2
−3
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 4090
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

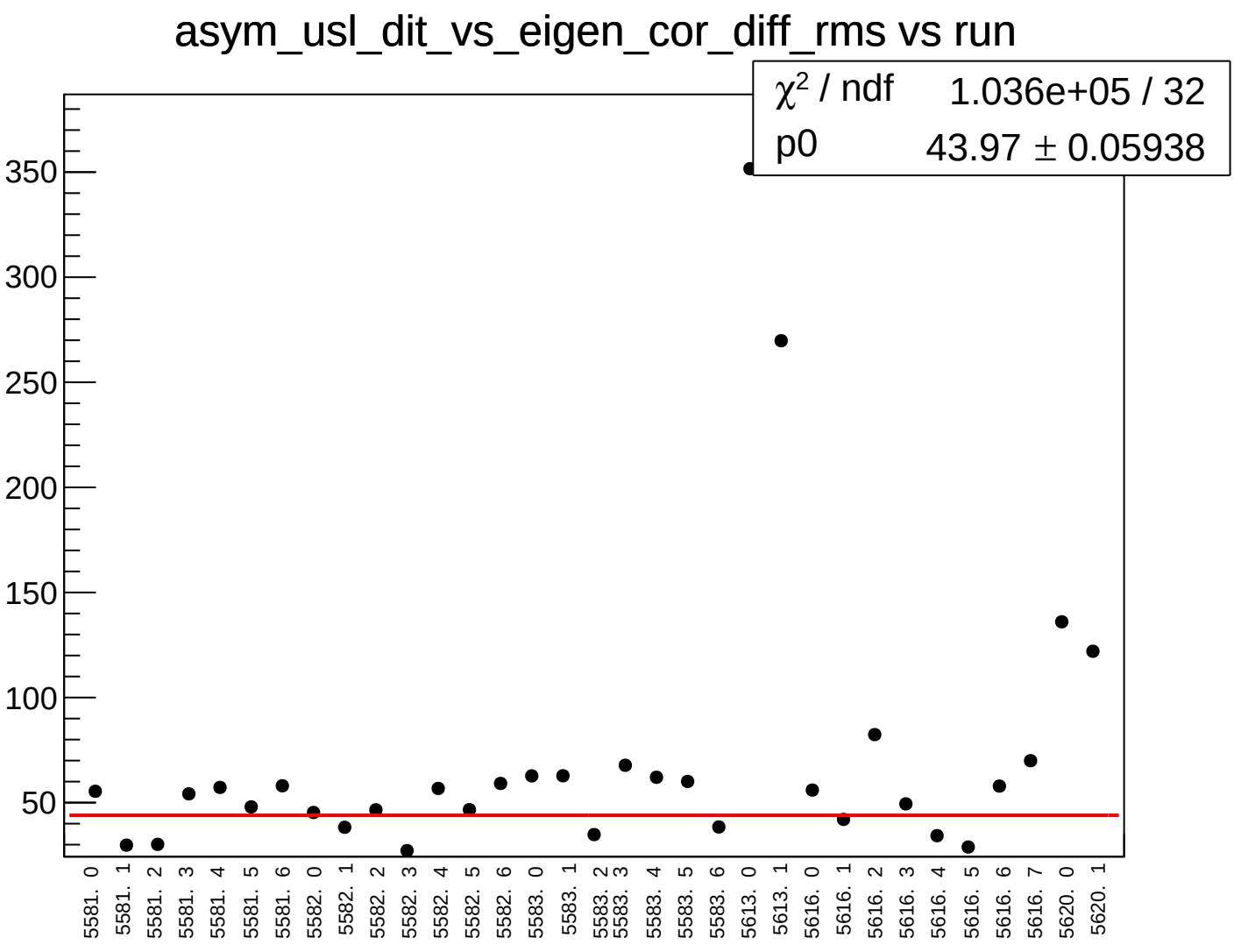

pull1D
Entries 33
Mean 0.000543
Std Dev 0.9597
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

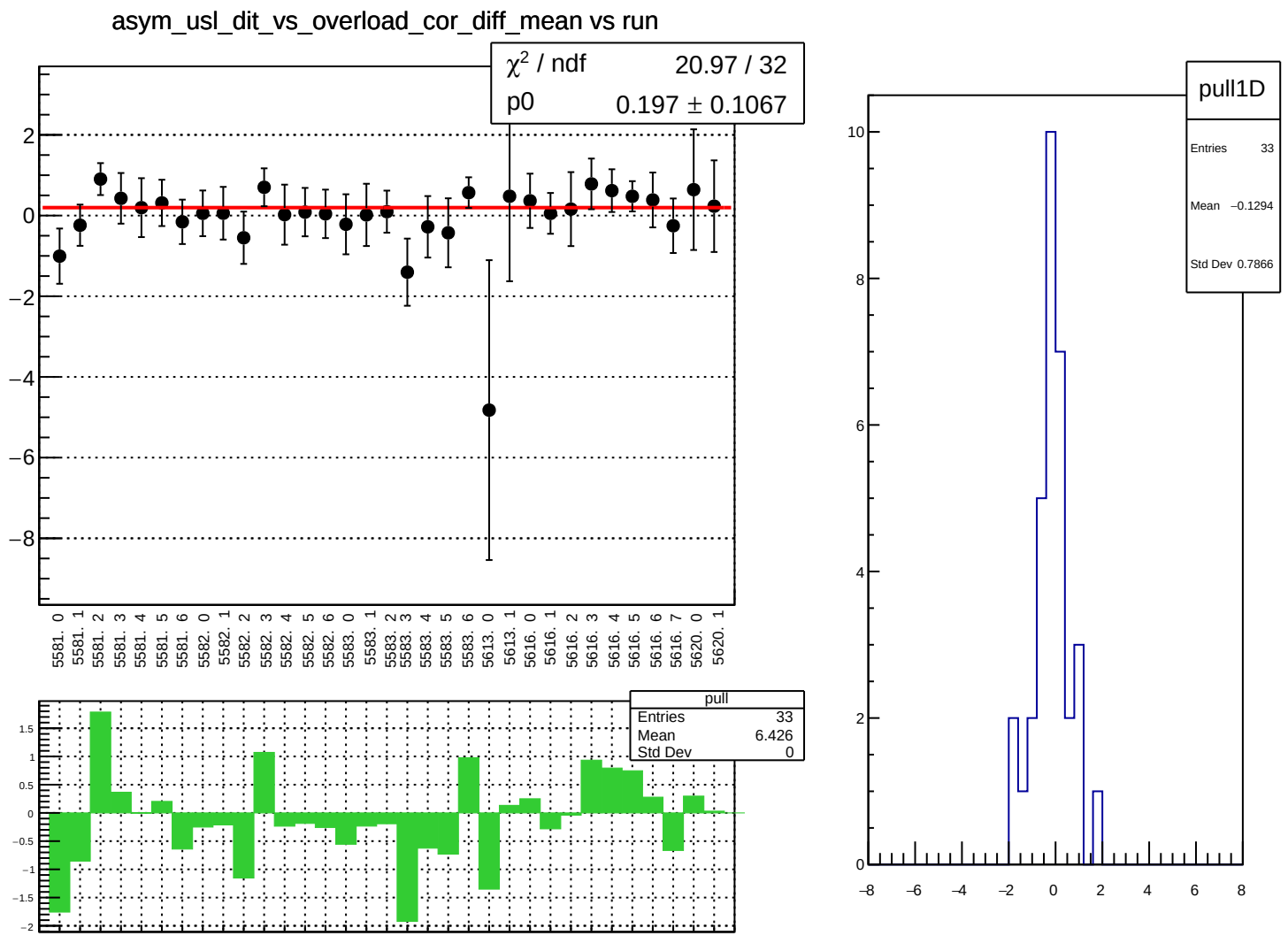

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.117e+05 / 32
p0 2.625e−11 ± 4.5e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

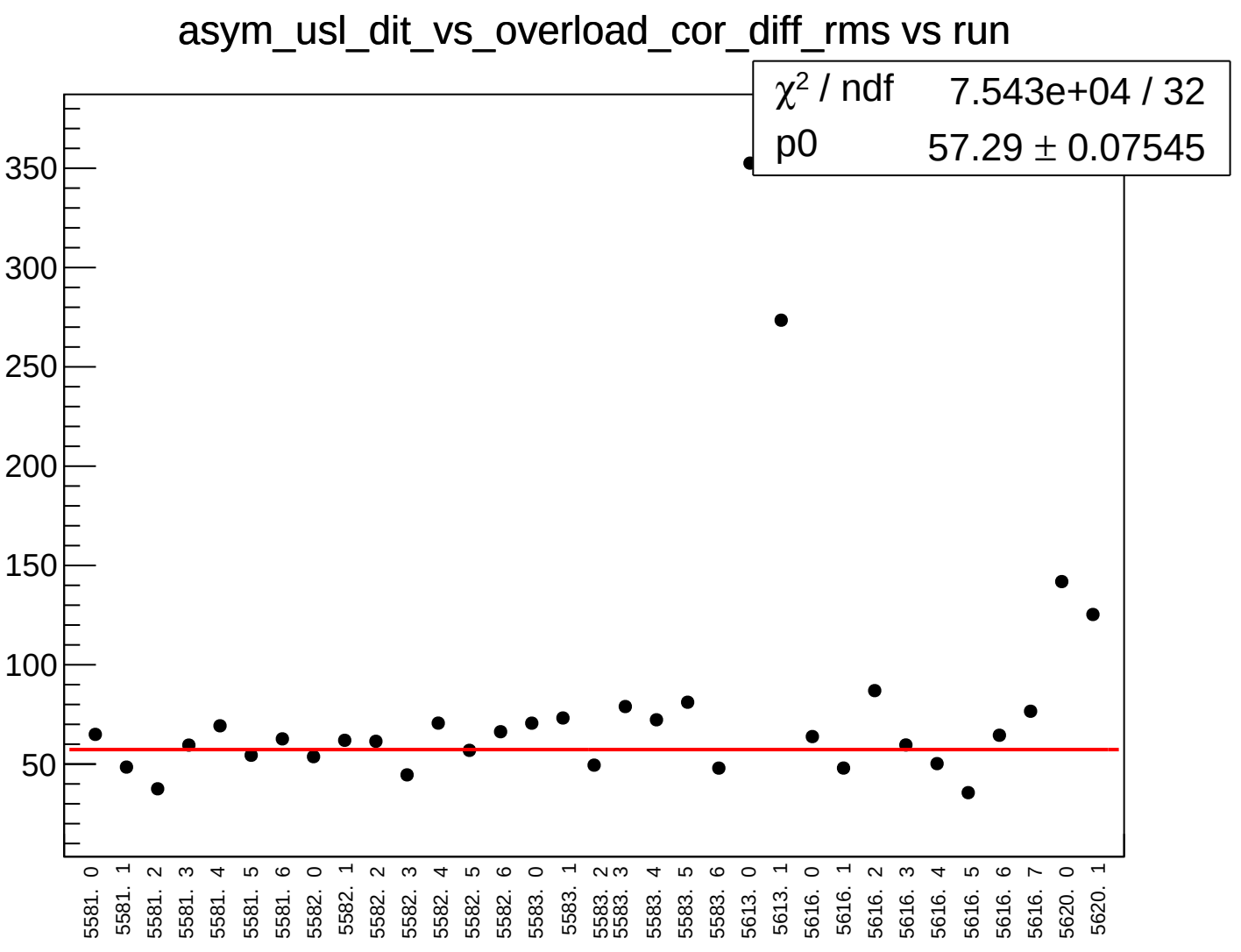

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 23.21 / 32
p0 0.2089 ± 0.08398
2
0
−2
−4
−6
−8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 12.16
Std Dev 6.772
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1273
Std Dev 0.8289
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

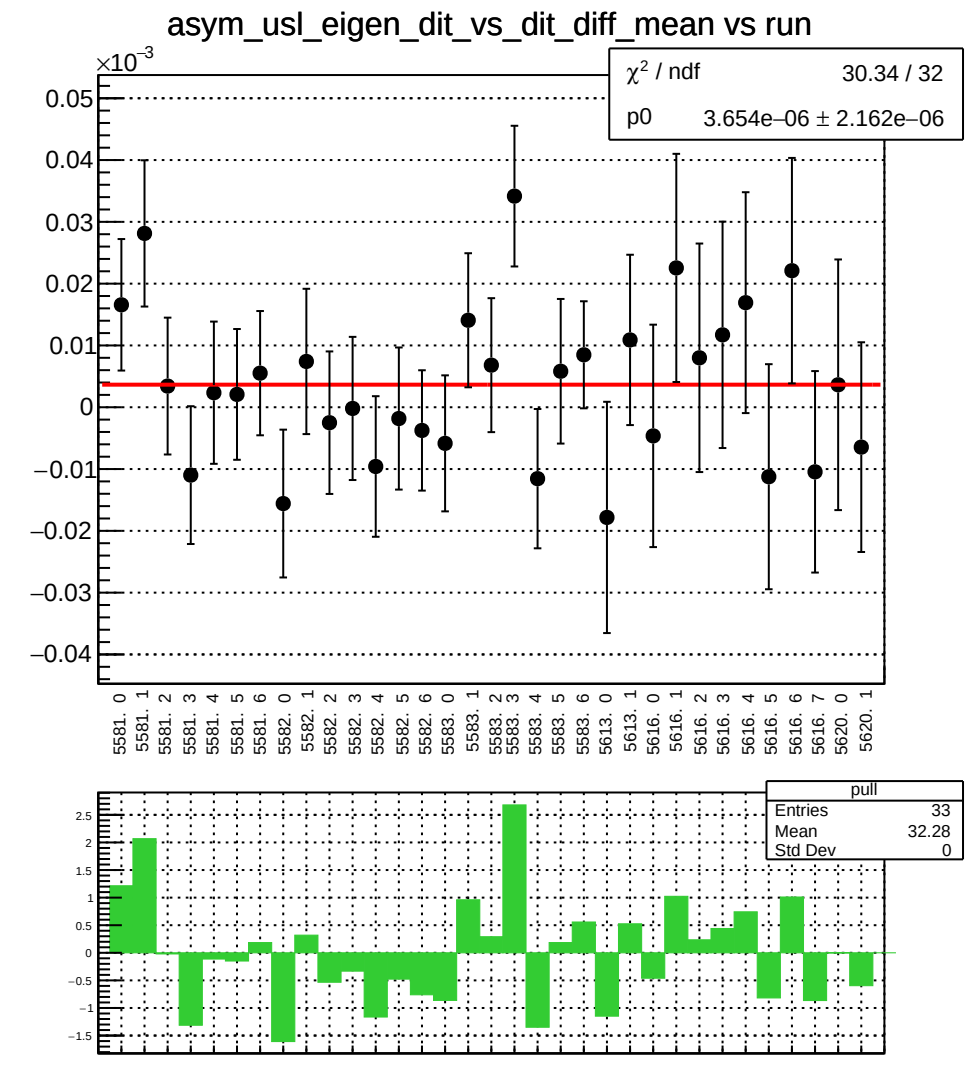

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 1.036e+05 / 32
p0 43.97 ± 0.05938
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

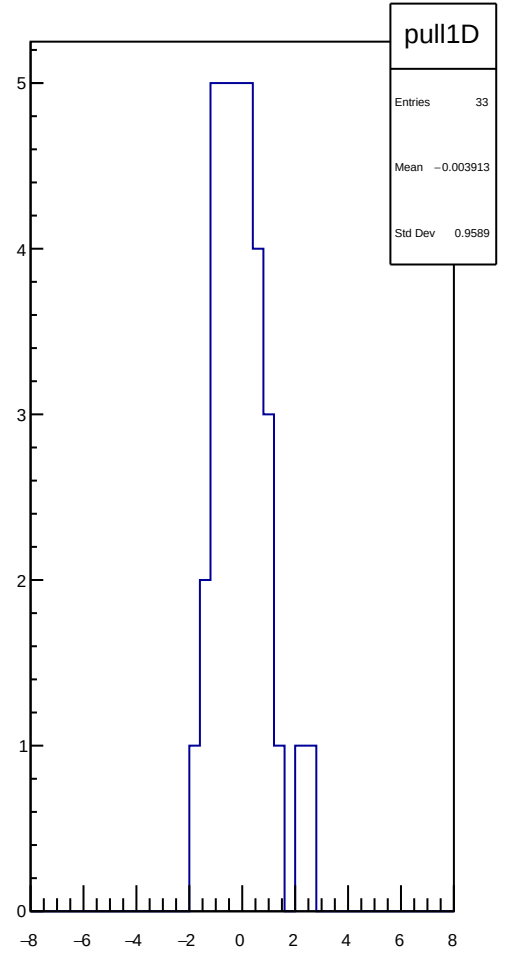

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.21 / 32
p0 0.2089 ± 0.08398
2
0
−2
−4
−6
−8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 12.16
Std Dev 6.772
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1273
Std Dev 0.8289
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

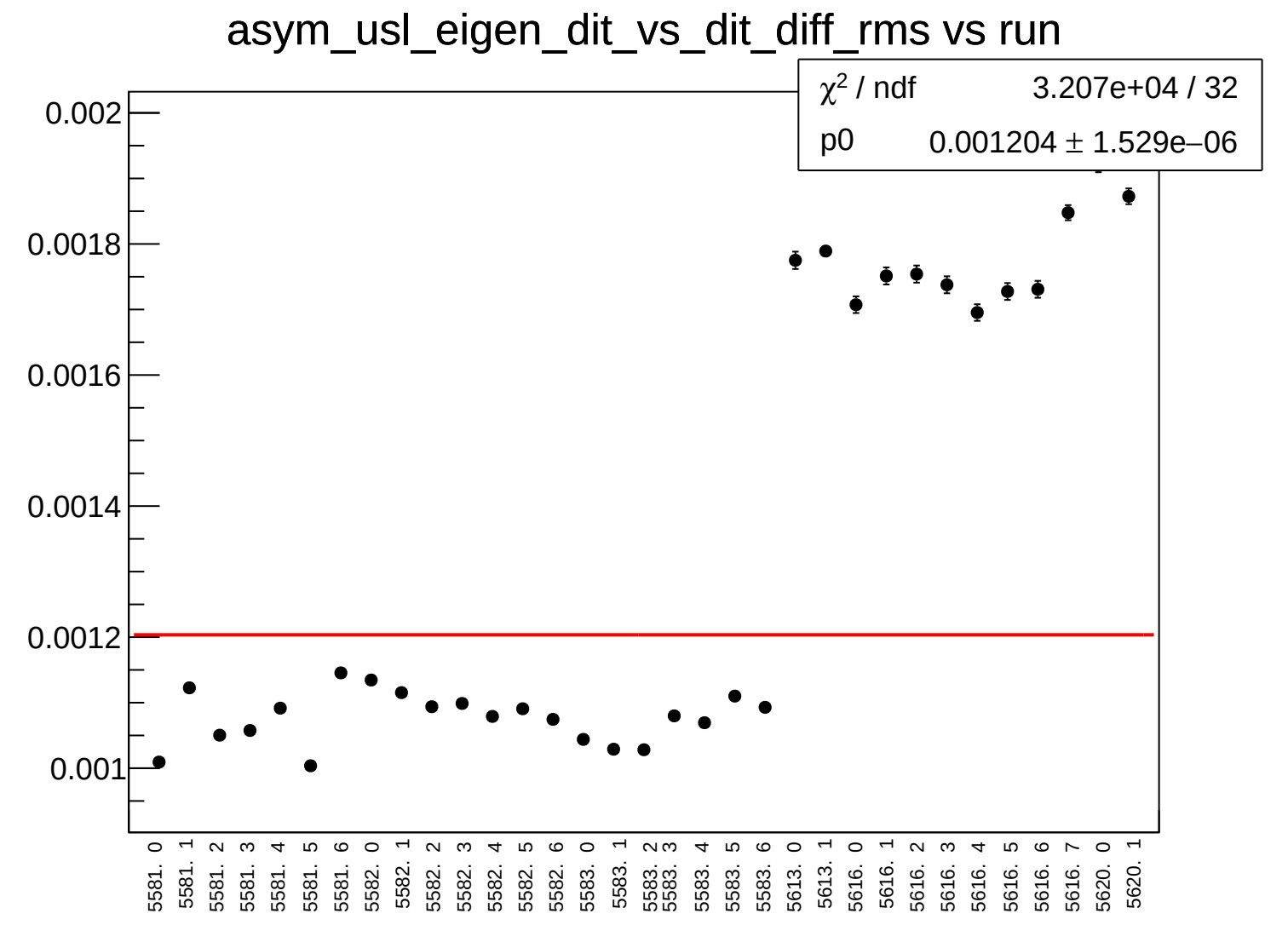

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.036e+05 / 32
p0 43.97 ± 0.05938
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

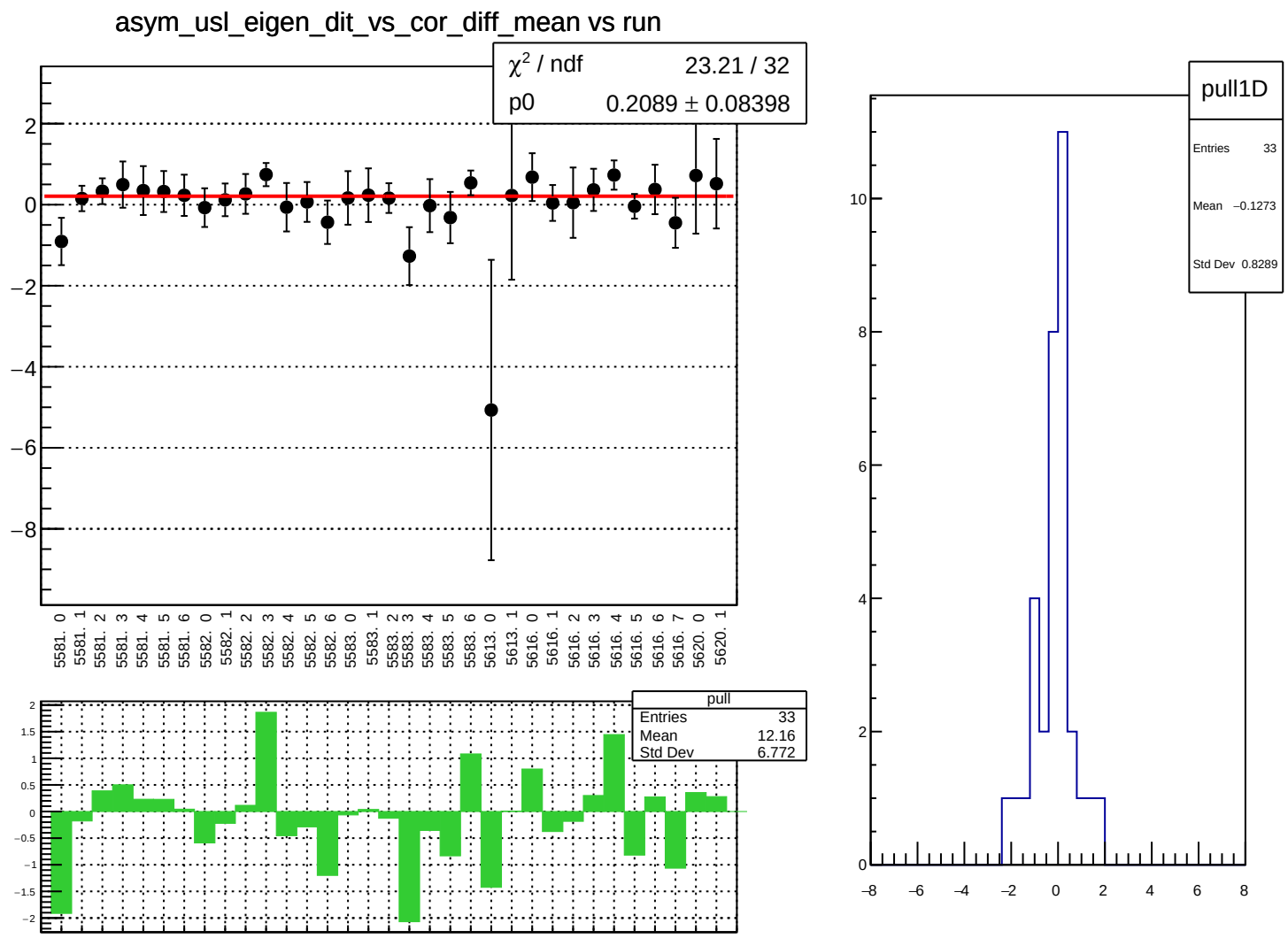

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 20.97 / 32
p0 0.197 ± 0.1067
pull
Entries 33
Mean 6.426
Std Dev 0
pull1D
Entries 33
Mean −0.1294
Std Dev 0.7866

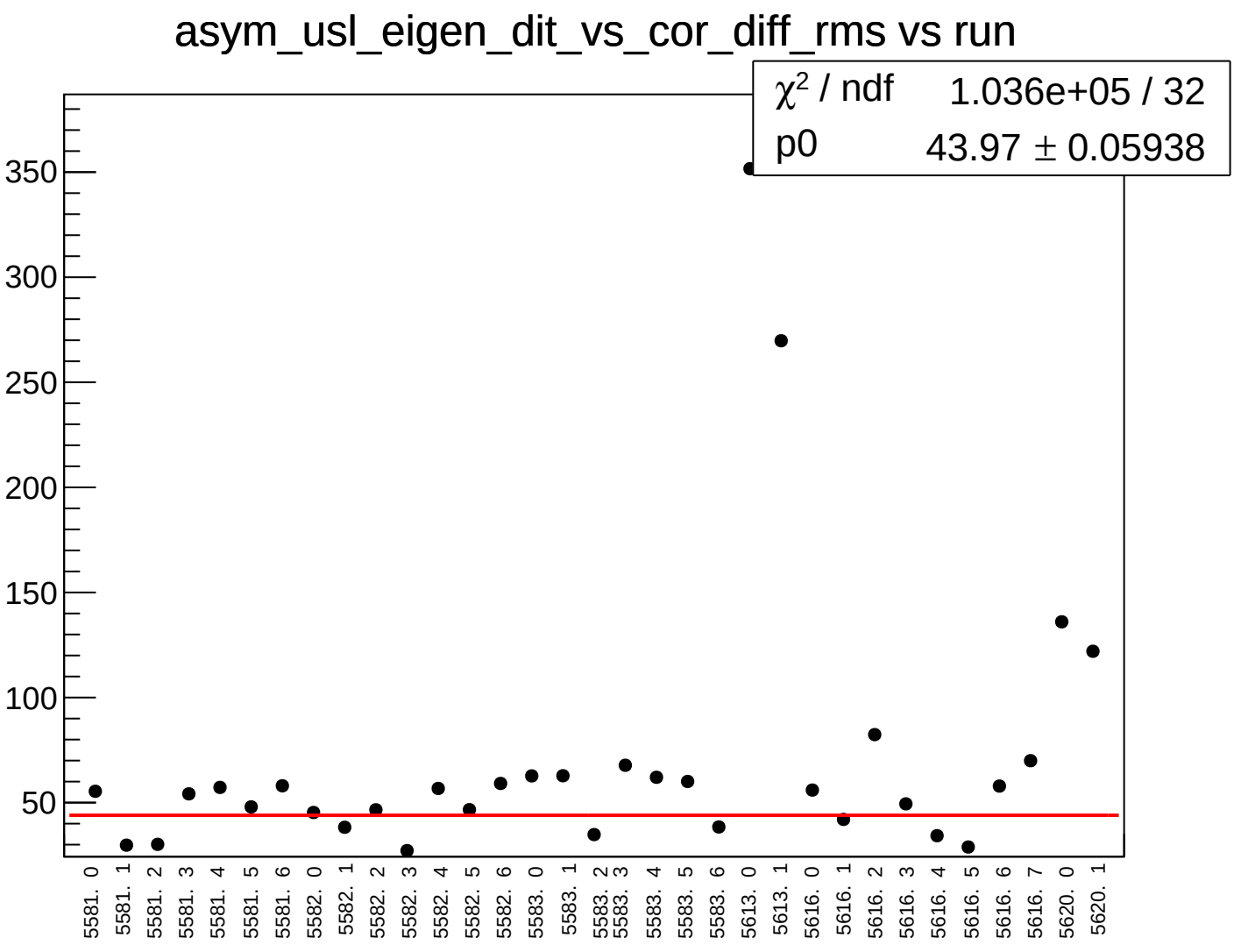

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.543e+04 / 32
p0 57.29 ± 0.07545
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

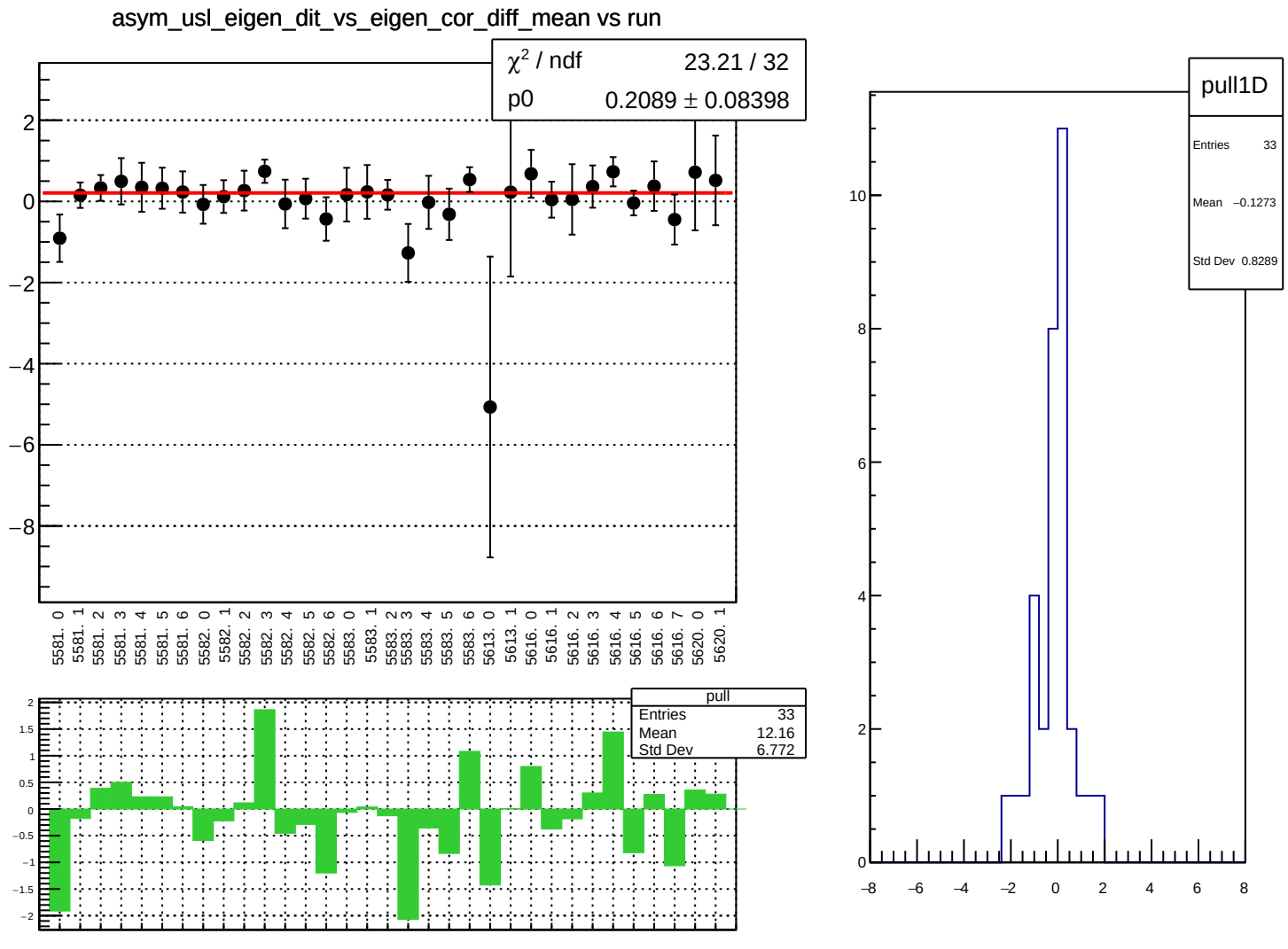

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.34 / 32
p0 3.654e−06 ± 2.162e−06
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 32.28
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

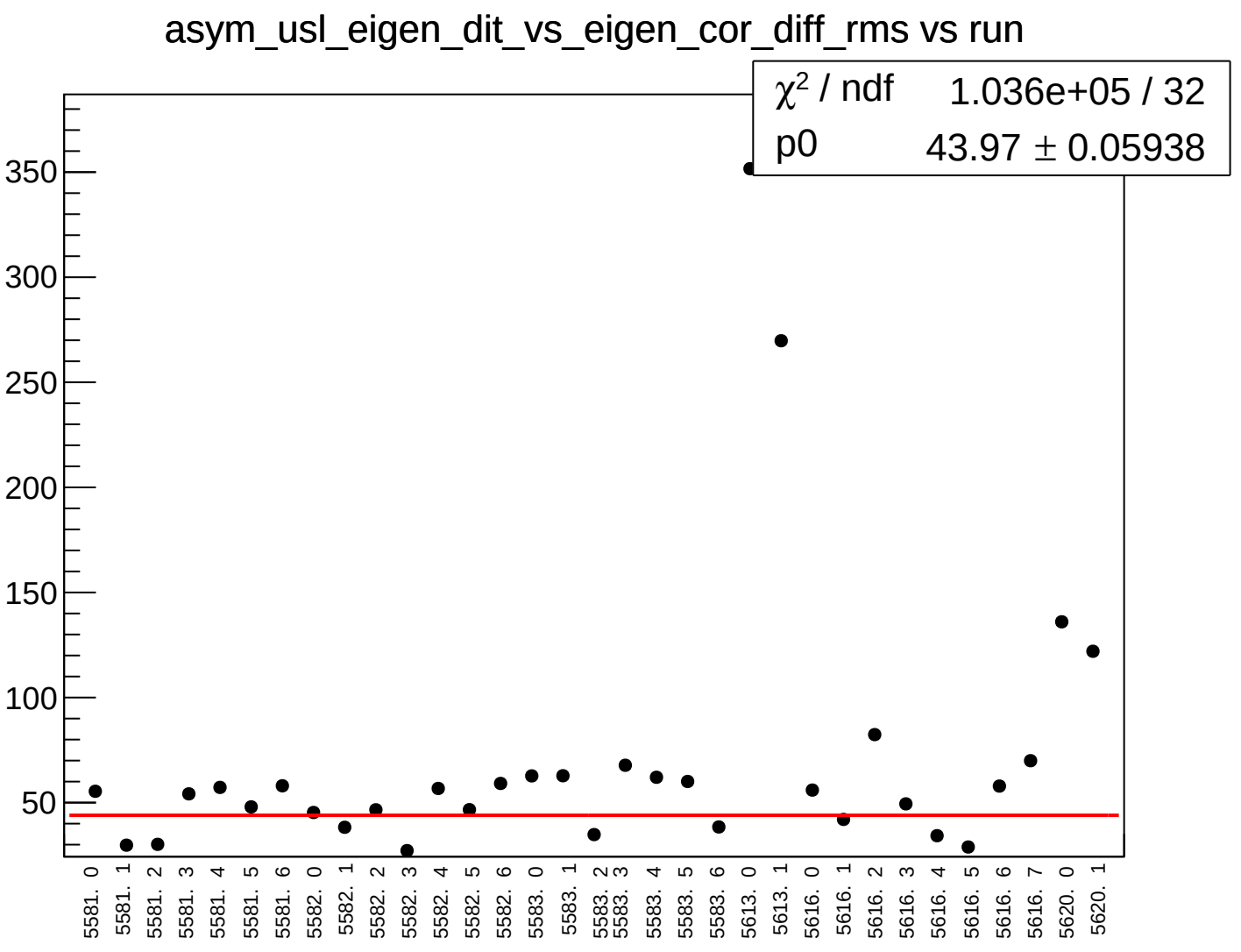

pull1D
Entries 33
Mean −0.003913
Std Dev 0.9589
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

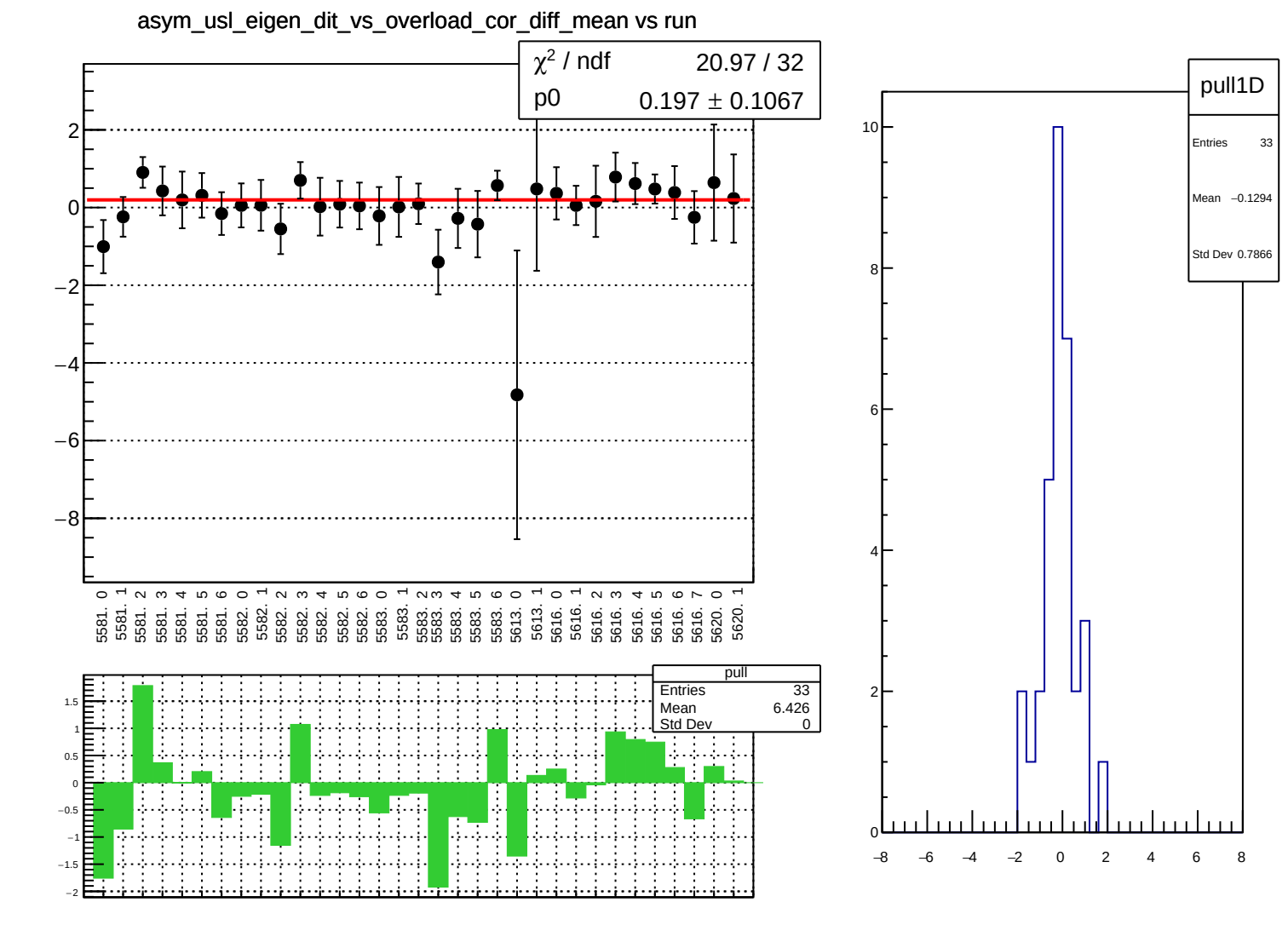

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.207e+04 / 32
p0 0.001204 ± 1.529e−06
0.002
0.0018
0.0016
0.0014
0.0012
0.001
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

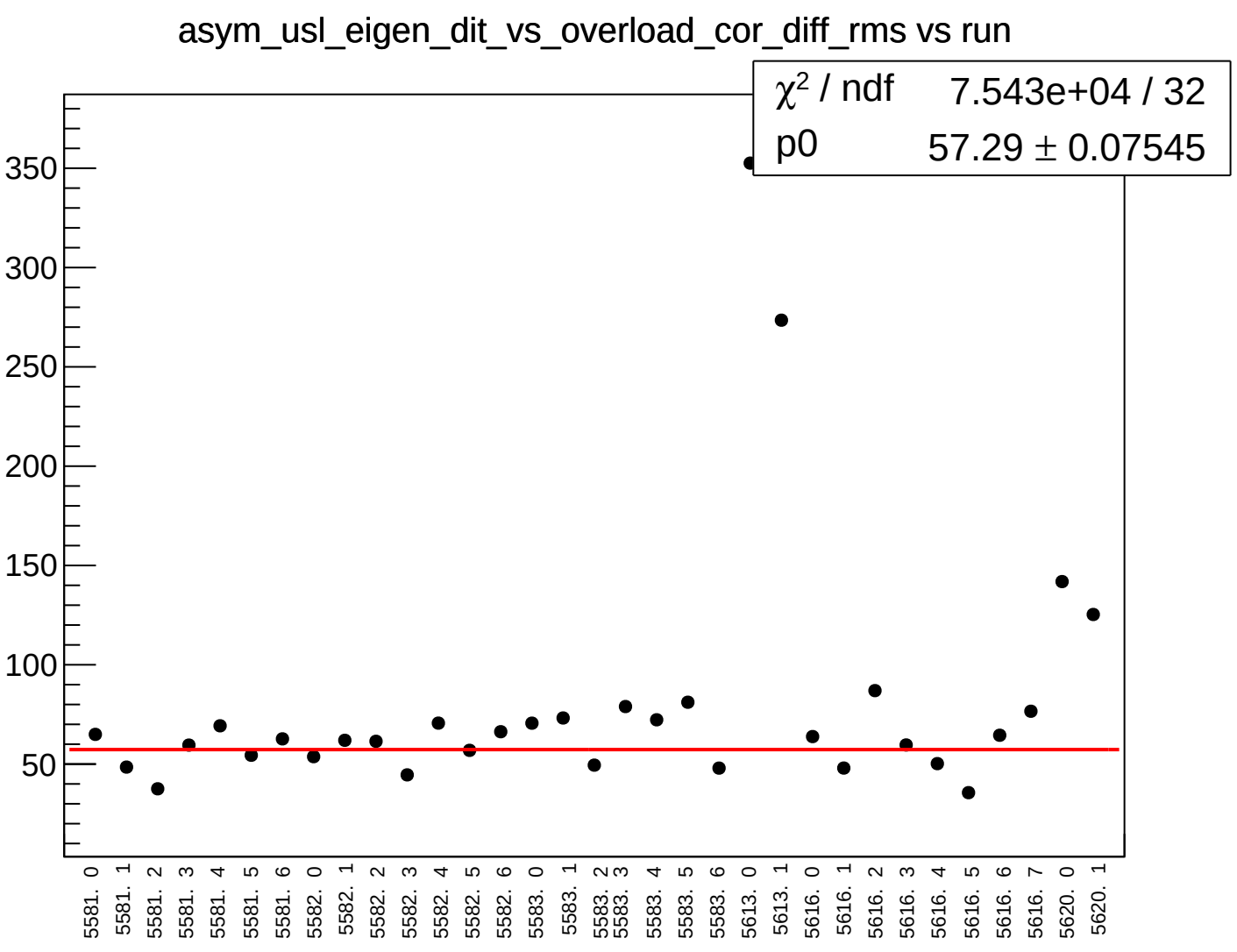

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.21 / 32
p0 0.2089 ± 0.08398
2
0
−2
−4
−6
−8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 12.16
Std Dev 6.772
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1273
Std Dev 0.8289
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

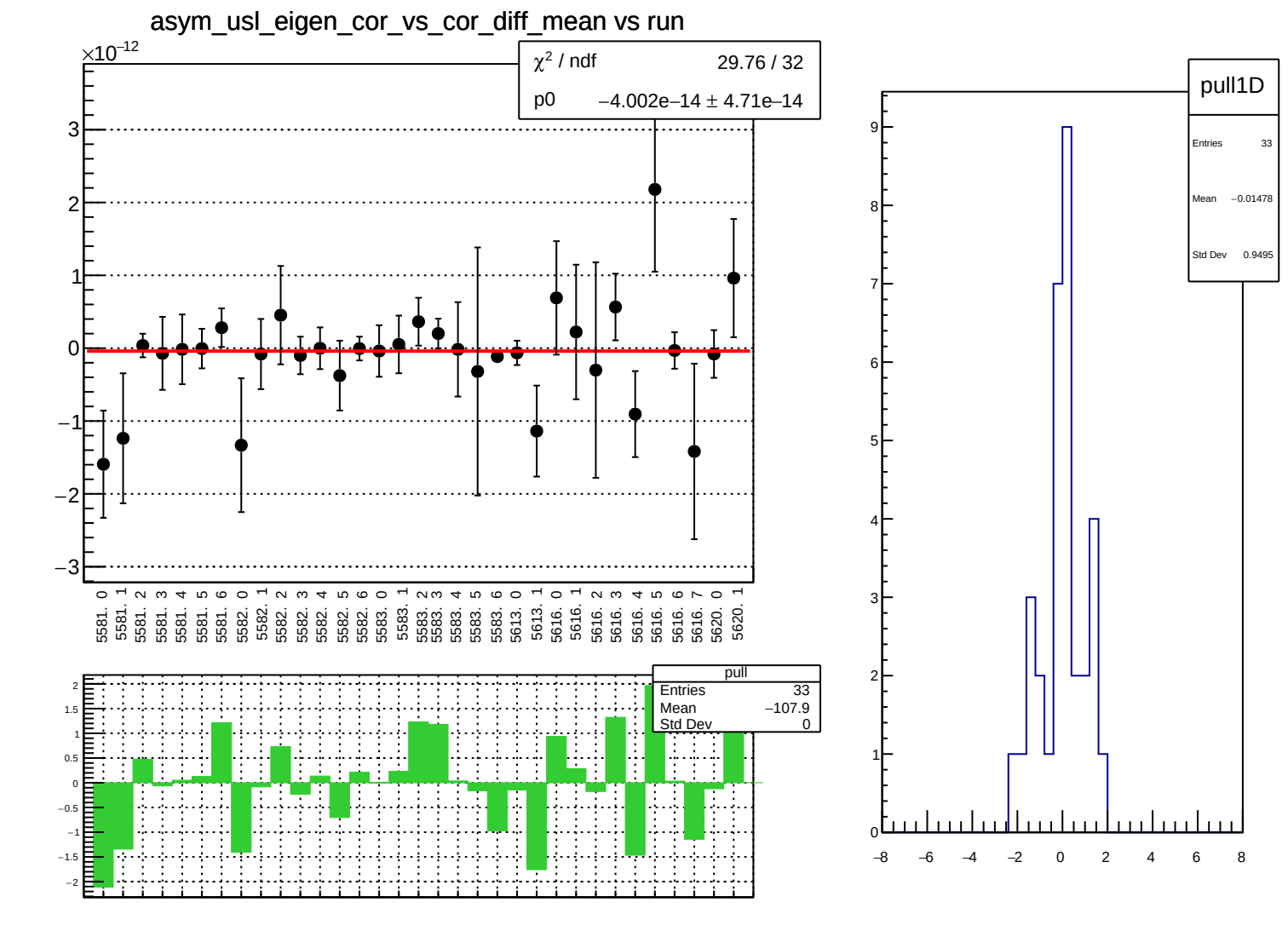

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.036e+05 / 32
p0 43.97 ± 0.05938
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

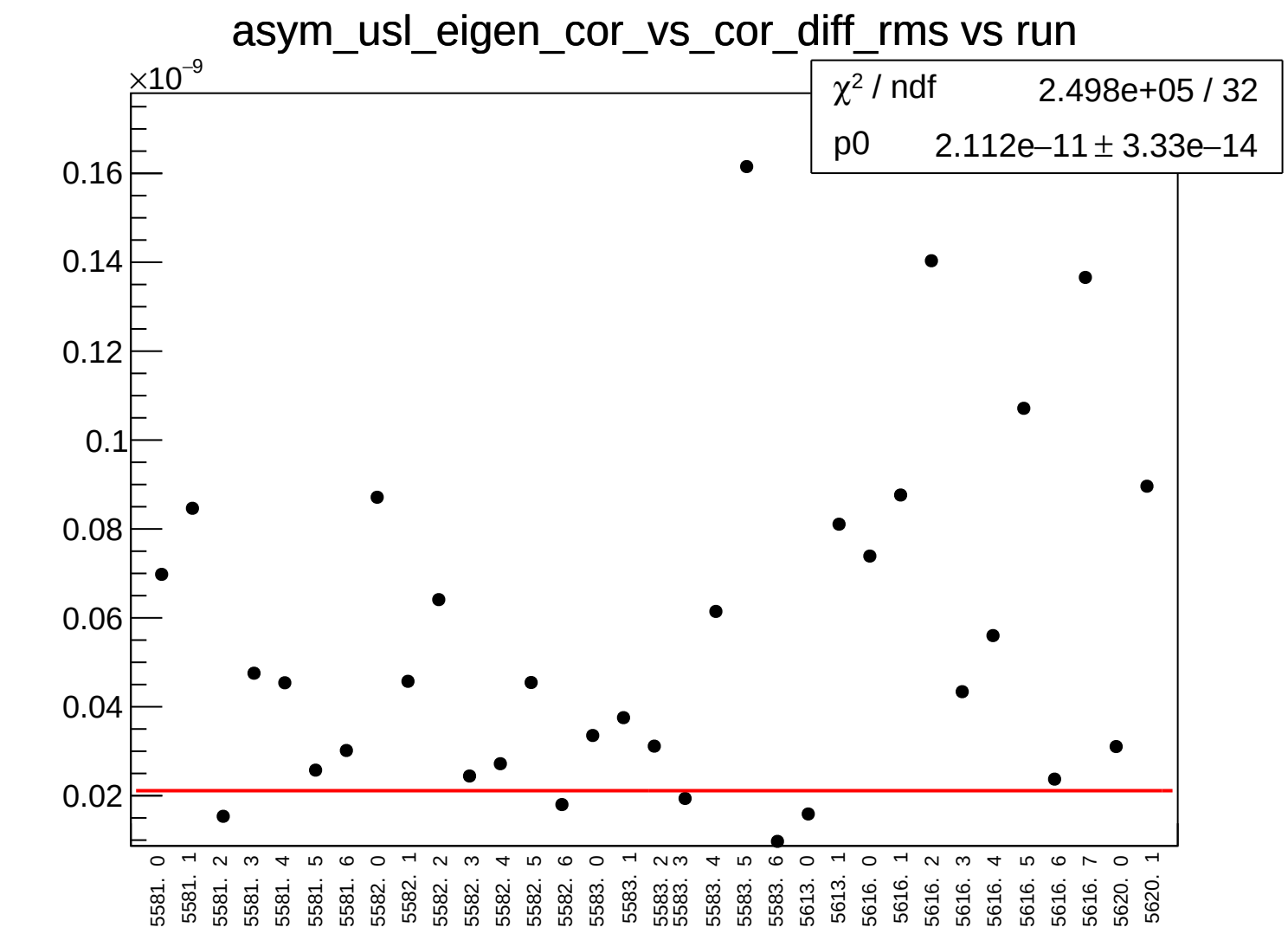

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.21 / 32
p0 0.2089 ± 0.08398
2
0
−2
−4
−6
−8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 12.16
Std Dev 6.772
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1273
Std Dev 0.8289
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

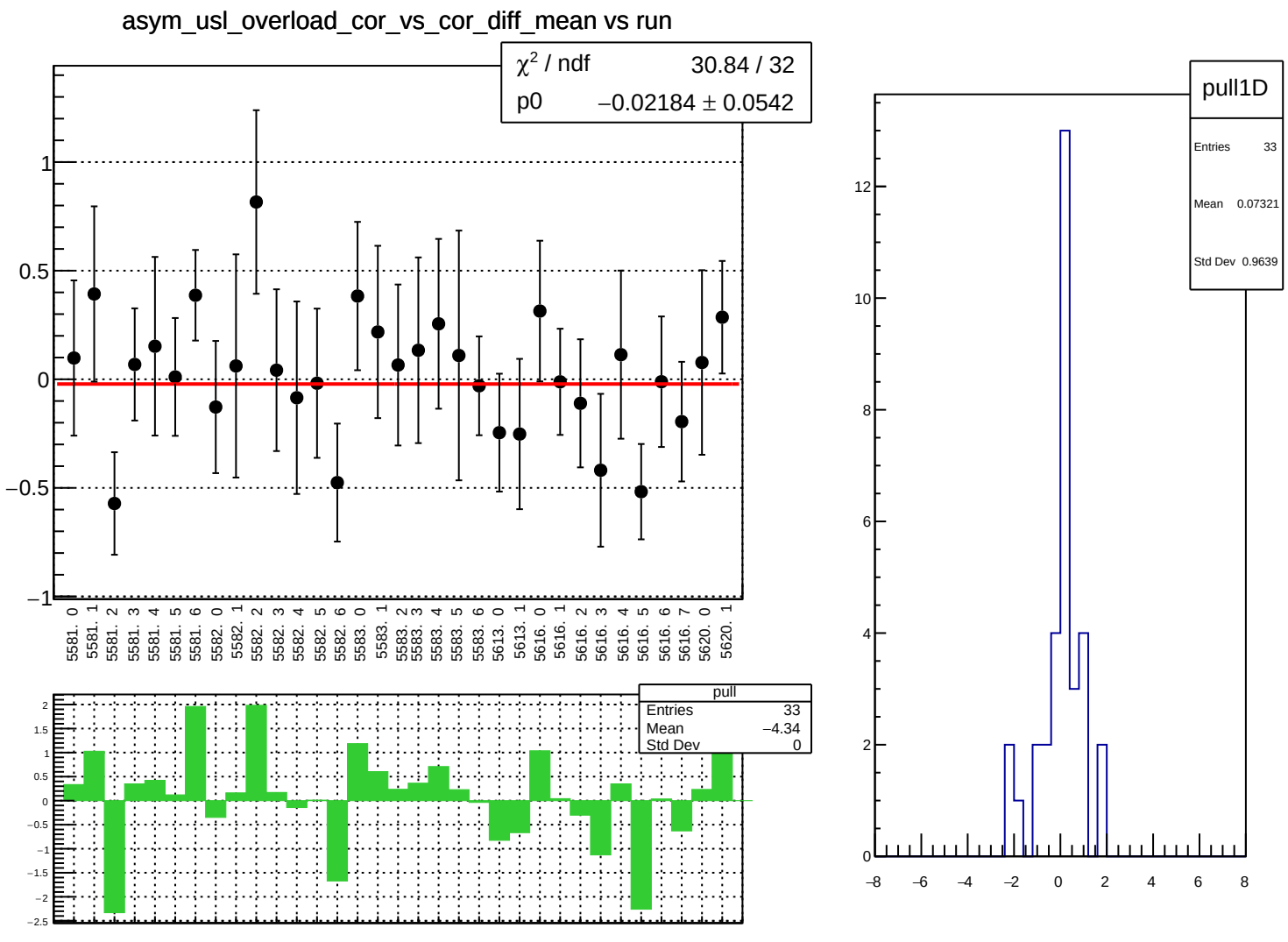

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.036e+05 / 32
p0 43.97 ± 0.05938
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

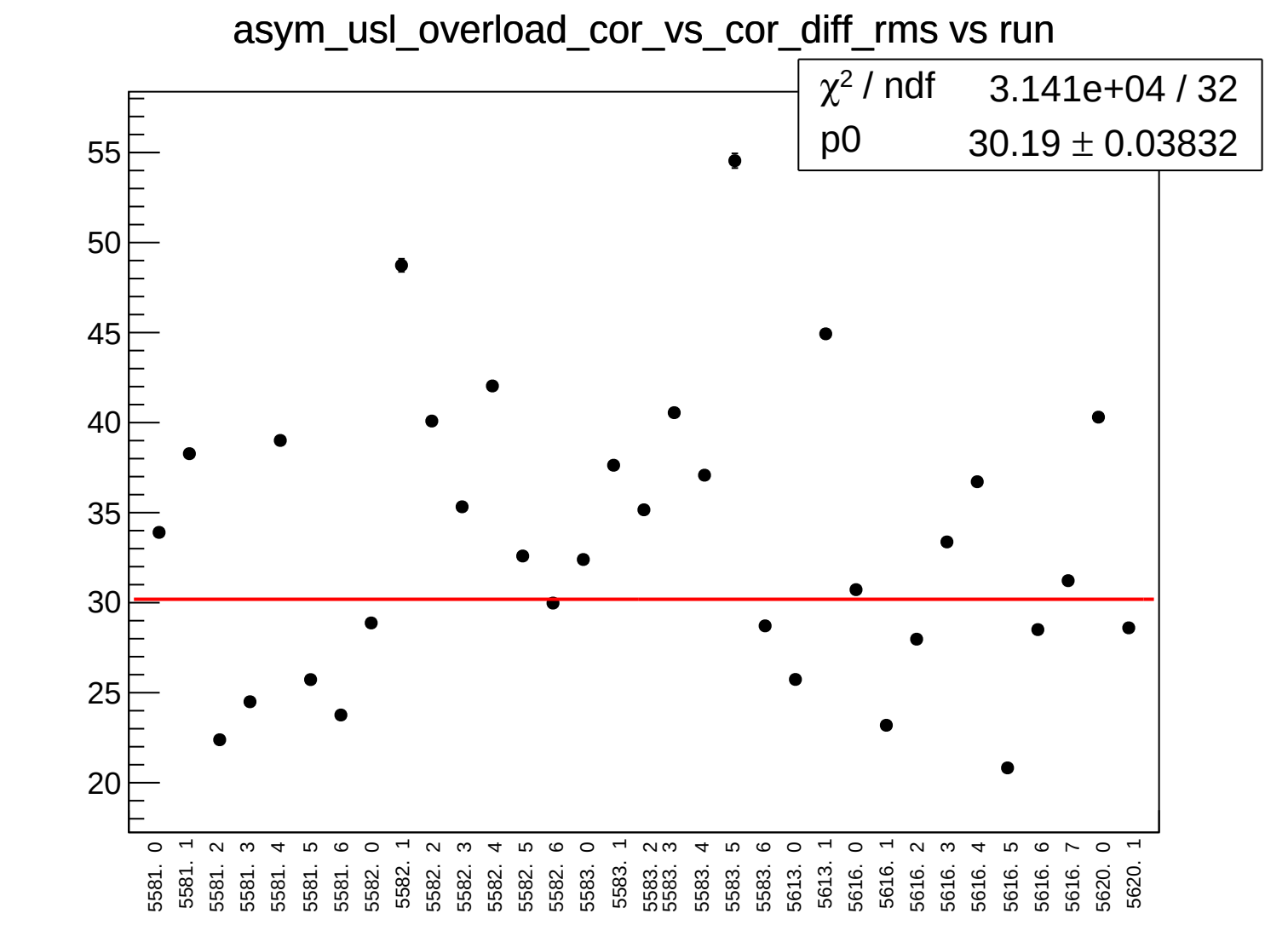

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 20.97 / 32
p0 0.197 ± 0.1067
2
0
−2
−4
−6
−8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 6.426
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1294
Std Dev 0.7866
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

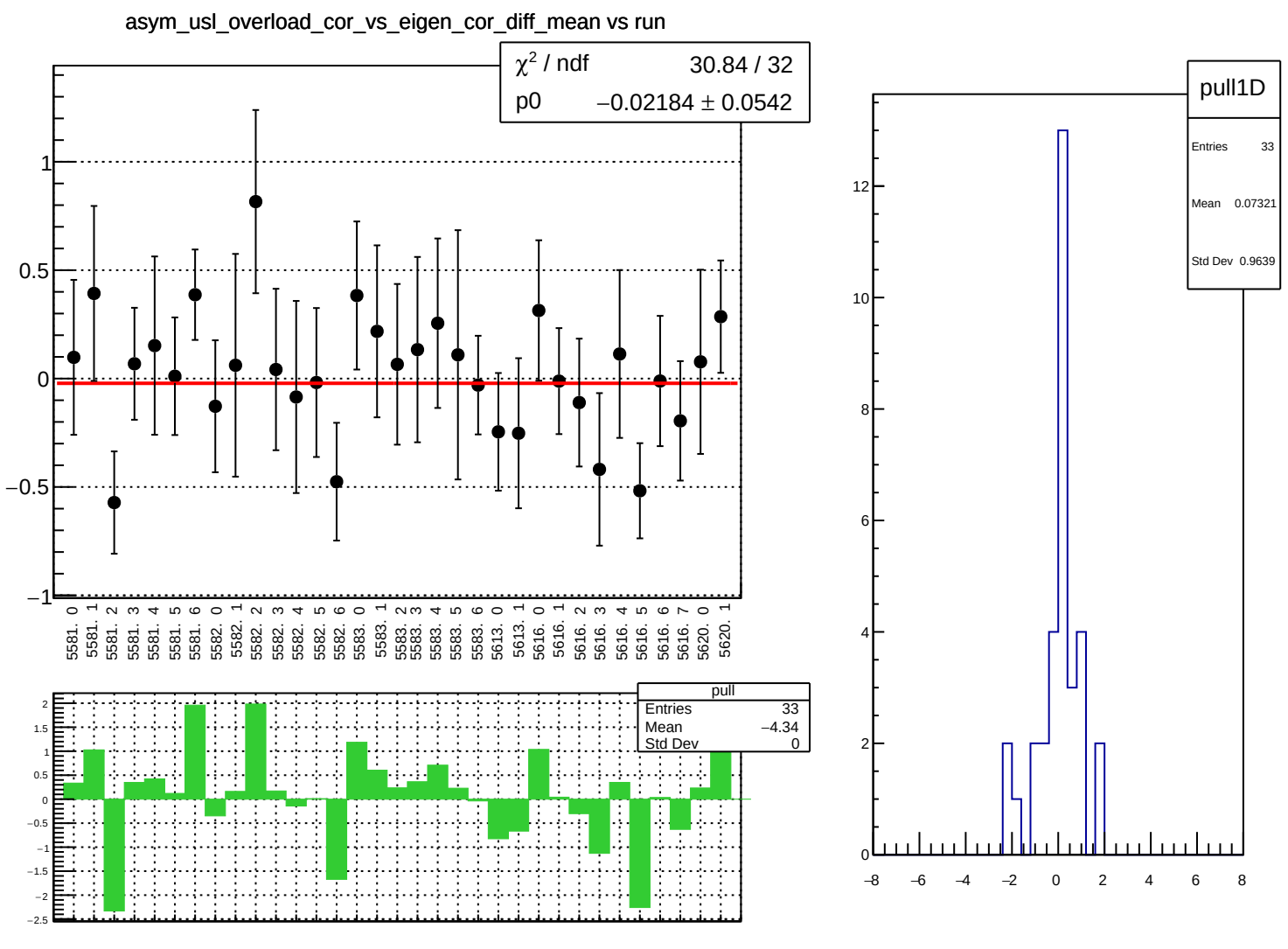

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.543e+04 / 32
p0 57.29 ± 0.07545
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

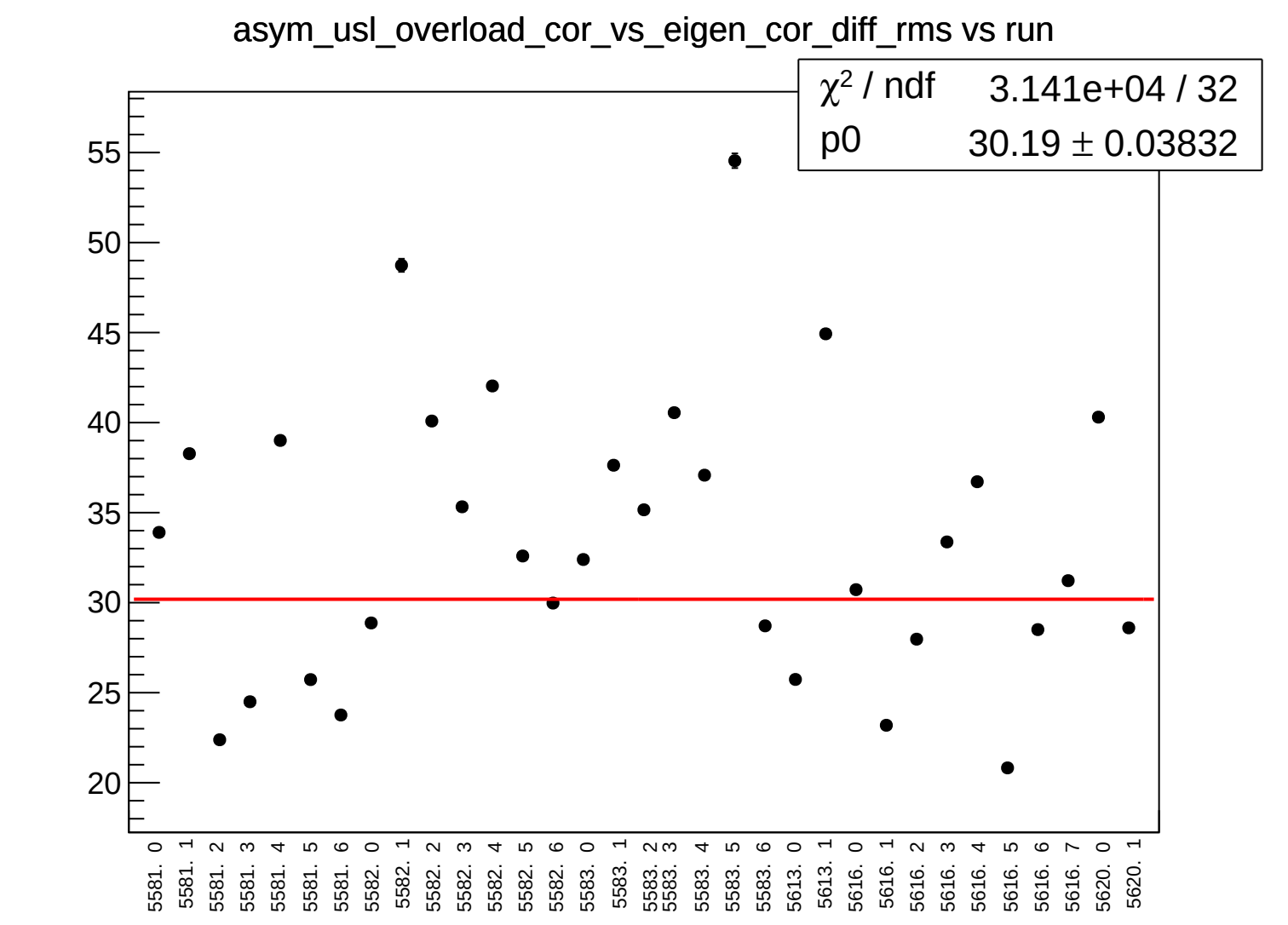

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 29.76 / 32
p0 −4.002e−14 ± 4.71e−14
3
2
1
0
−1
−2
−3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −107.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01478
Std Dev 0.9495
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

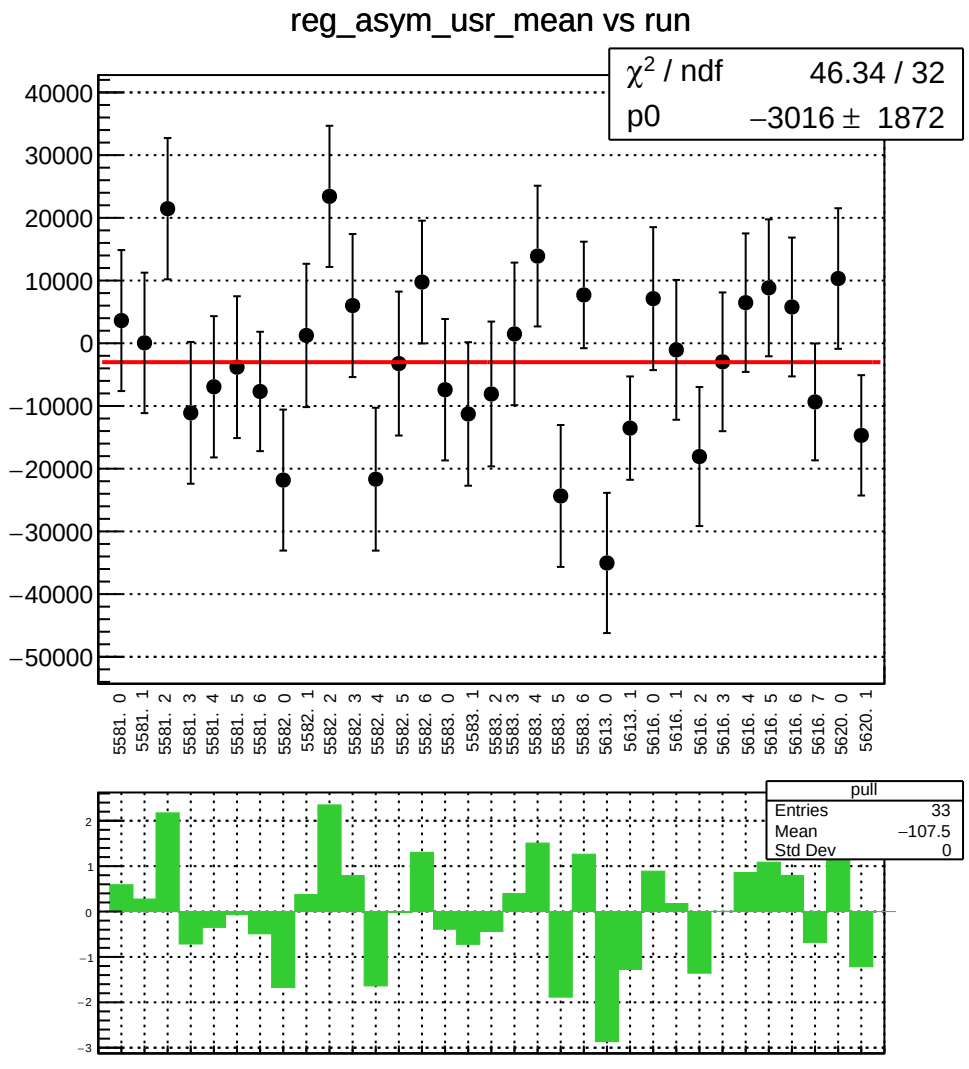

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.498e+05 / 32
p0 2.112e−11 ± 3.33e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

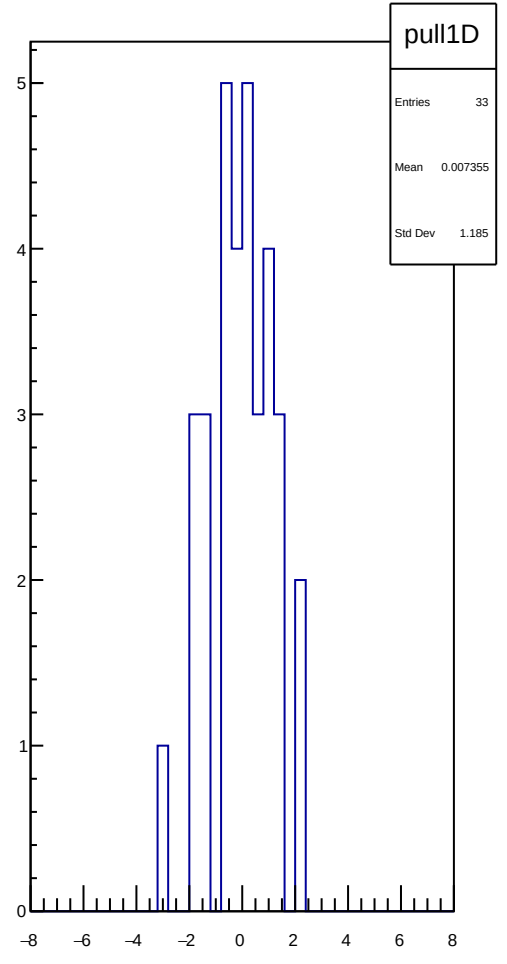

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 30.84 / 32
p0 −0.02184 ± 0.0542
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −4.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.07321
Std Dev 0.9639
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

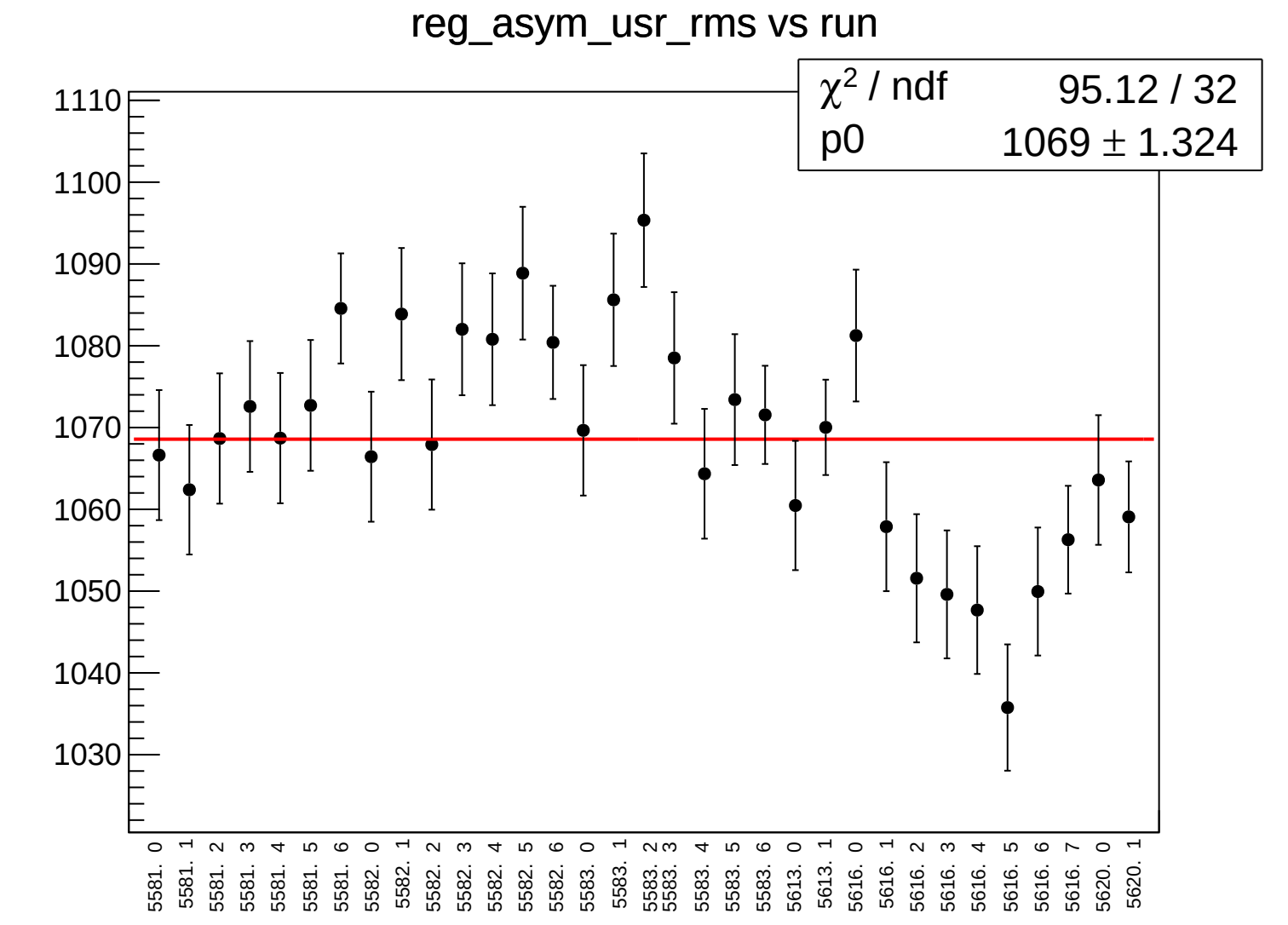

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.141e+04 / 32
p0 30.19 ± 0.03832
55
50
45
40
35
30
25
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

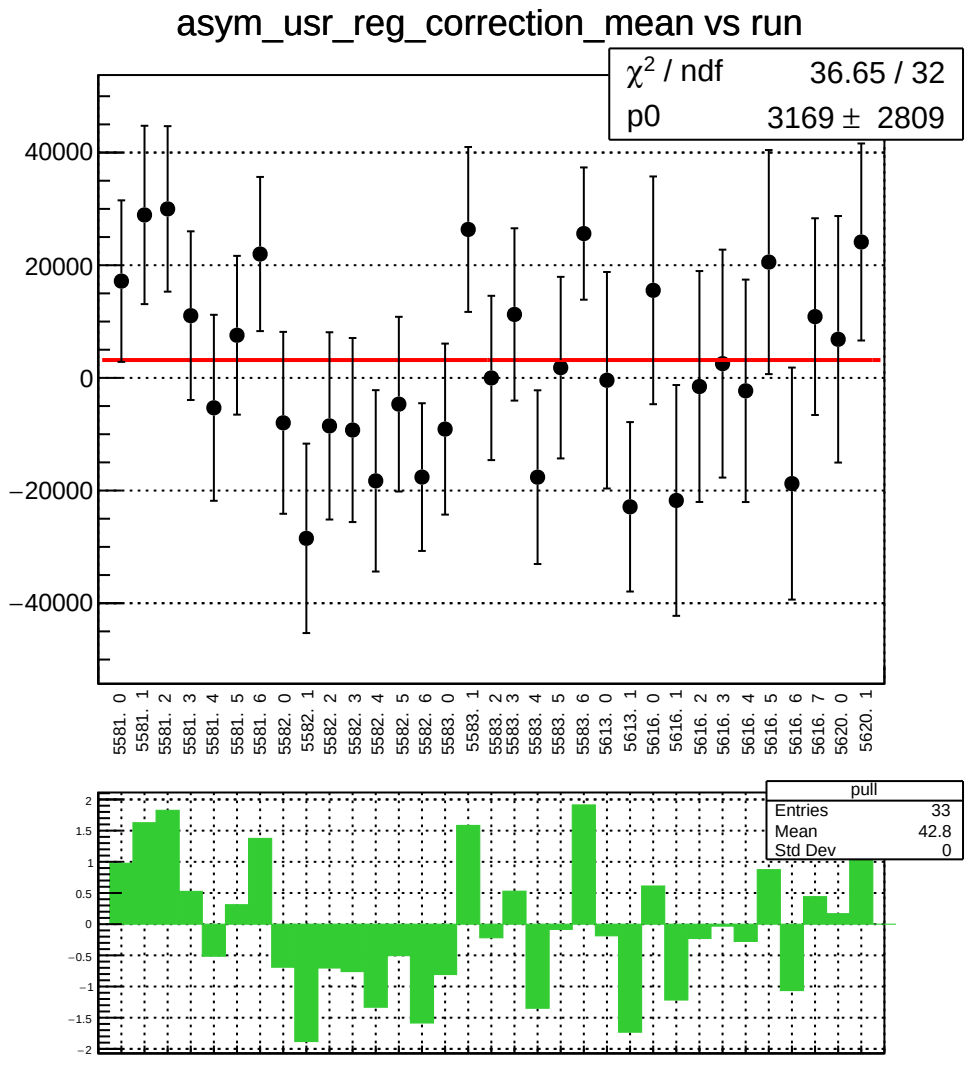

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.84 / 32
p0 −0.02184 ± 0.0542
pull
Entries 33
Mean −4.34
Std Dev 0
pull1D
Entries 33
Mean 0.07321
Std Dev 0.9639

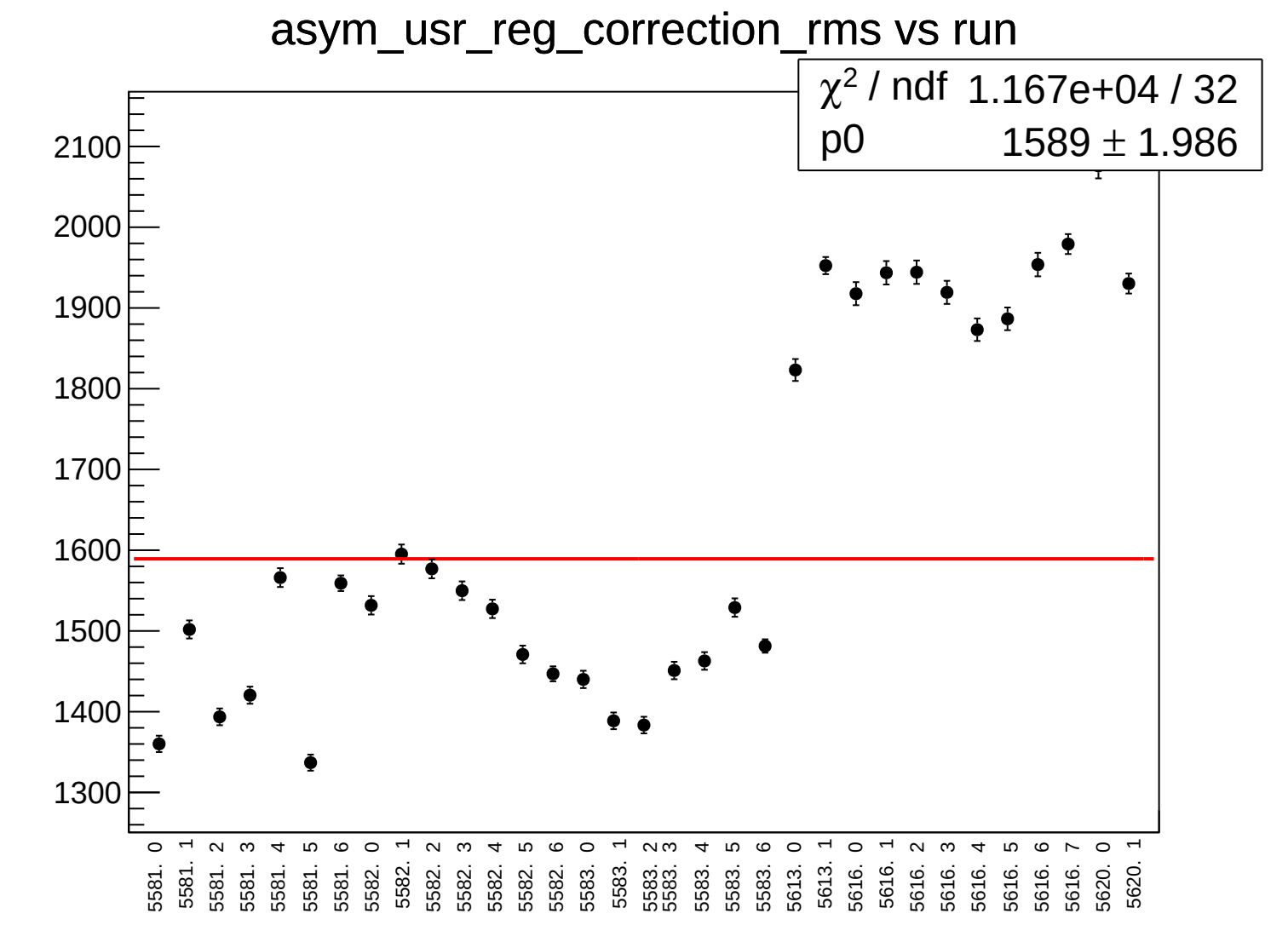

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.141e+04 / 32
p0 30.19 ± 0.03832
55
50
45
40
35
30
25
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

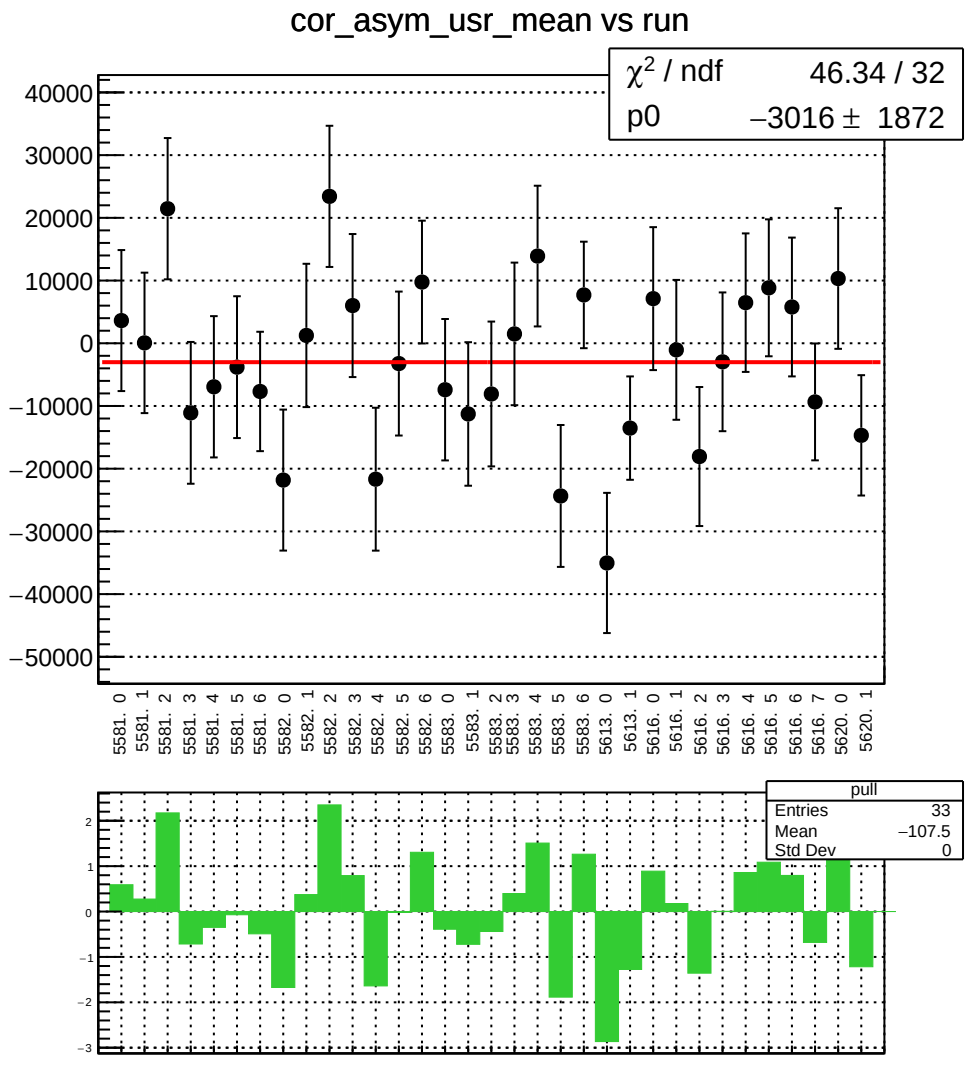

reg_asym_usr_mean vs run
χ² / ndf 46.34 / 32
p0 −3016 ± 1872
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −107.5
Std Dev 0
2
1
0
−1
−2
−3

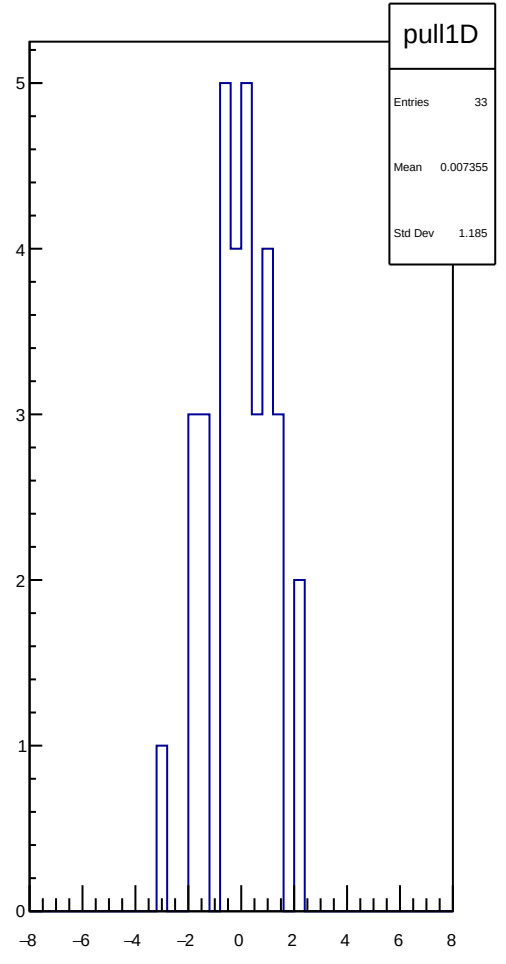

pull1D
Entries 33
Mean 0.007355
Std Dev 1.185
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

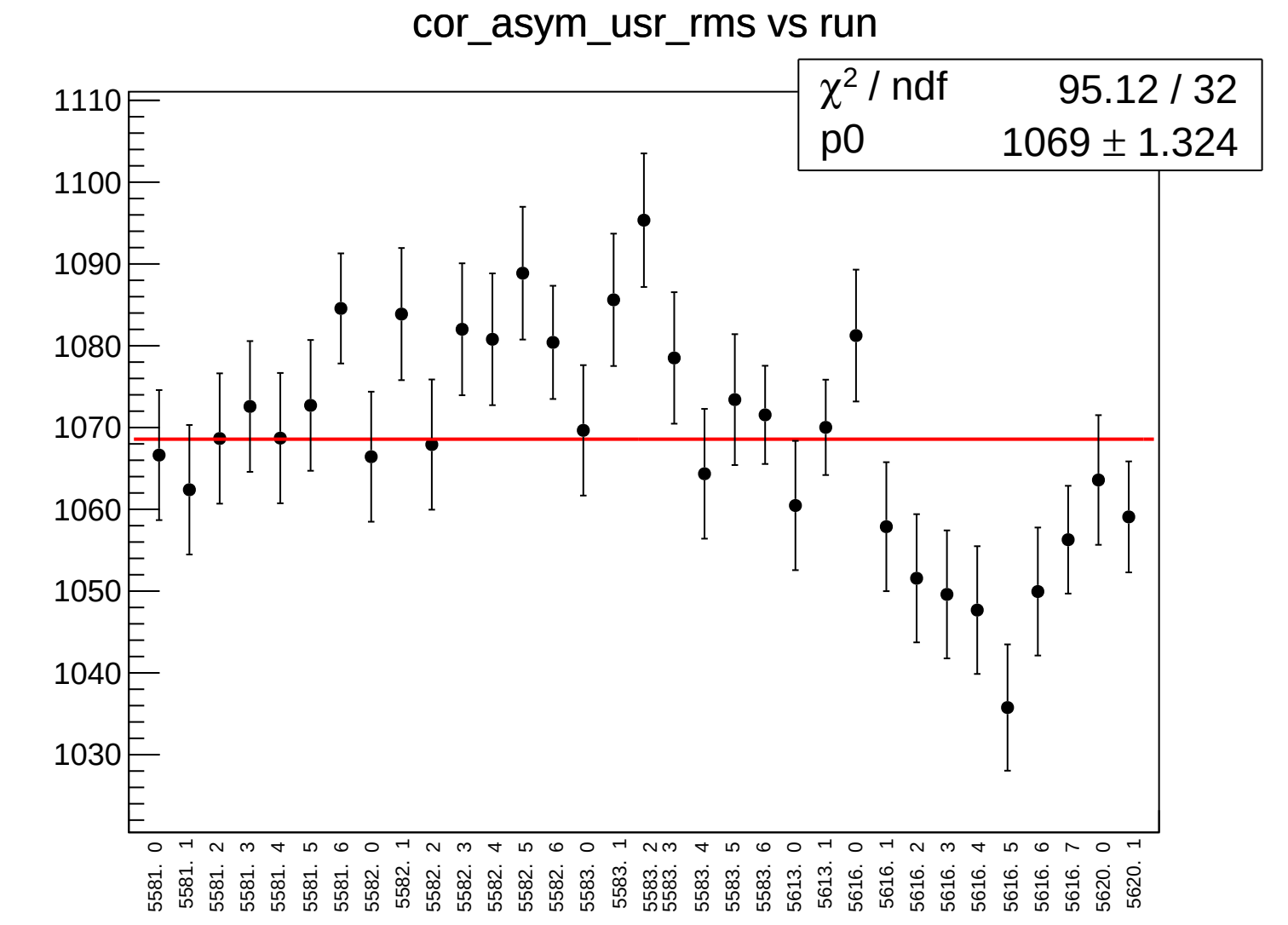

reg_asym_usr_rms vs run
χ² / ndf 95.12 / 32
p0 1069 ± 1.324
1110
1100
1090
1080
1070
1060
1050
1040
1030
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

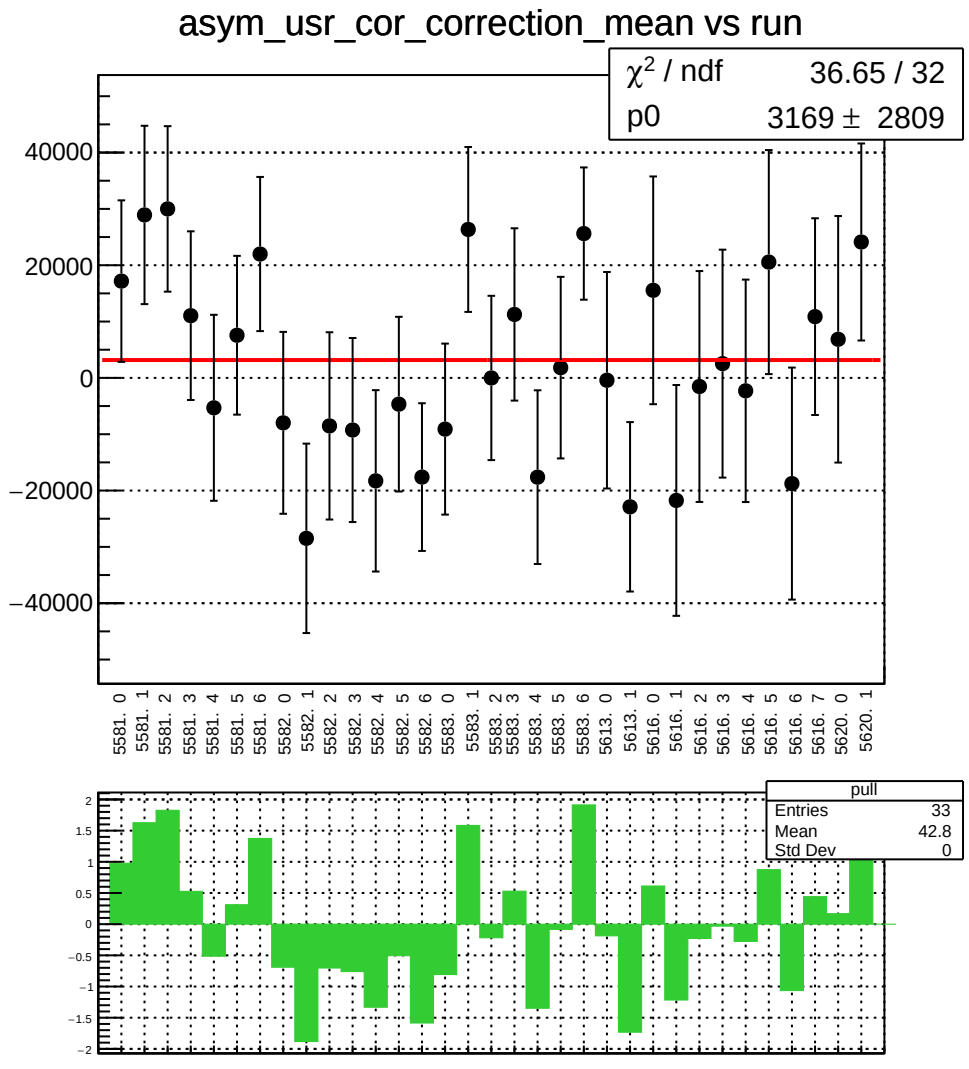

asym_usr_reg_correction_mean vs run
χ² / ndf 36.65 / 32
p0 3169 ± 2809
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 42.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.03651
Std Dev 1.053
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

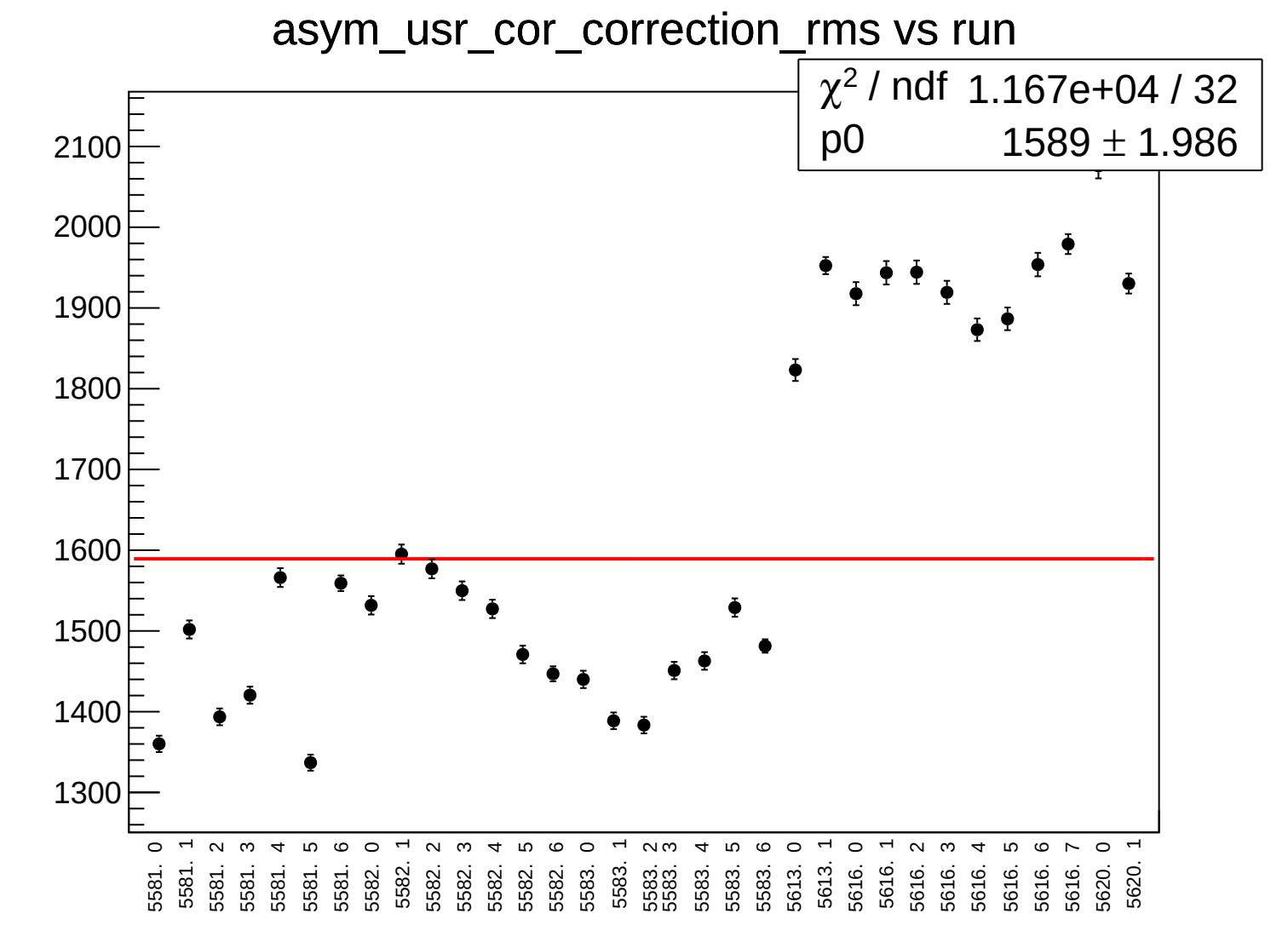

asym_usr_reg_correction_rms vs run
χ² / ndf 1.167e+04 / 32
p0 1589 ± 1.986
2100
2000
1900
1800
1700
1600
1500
1400
1300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

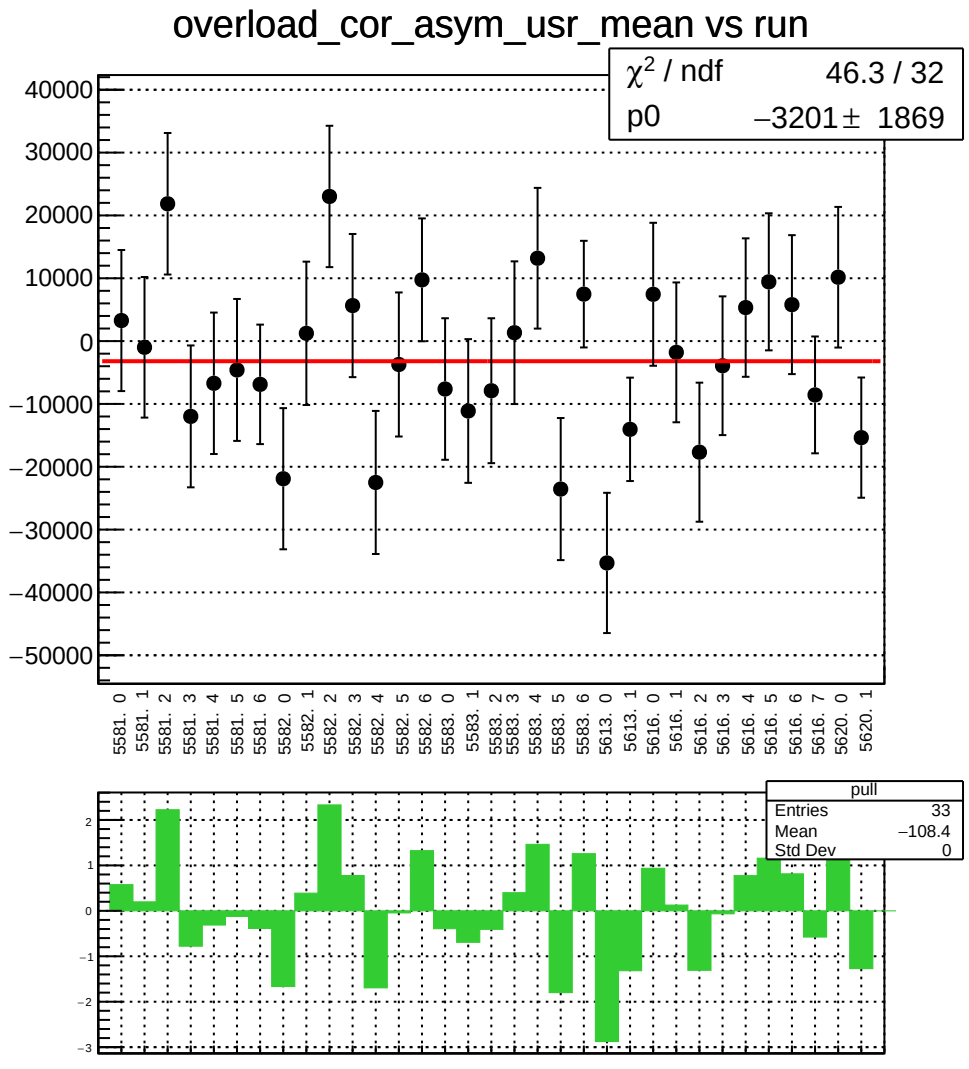

cor_asym_usr_mean vs run
χ² / ndf 46.34 / 32
p0 −3016 ± 1872
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −107.5
Std Dev 0
2
1
0
−1
−2
−3

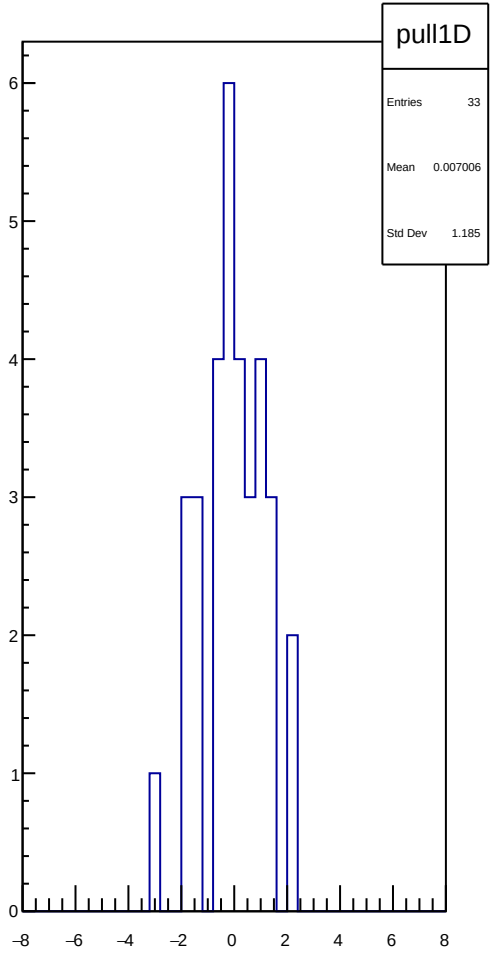

pull1D
Entries 33
Mean 0.007355
Std Dev 1.185
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

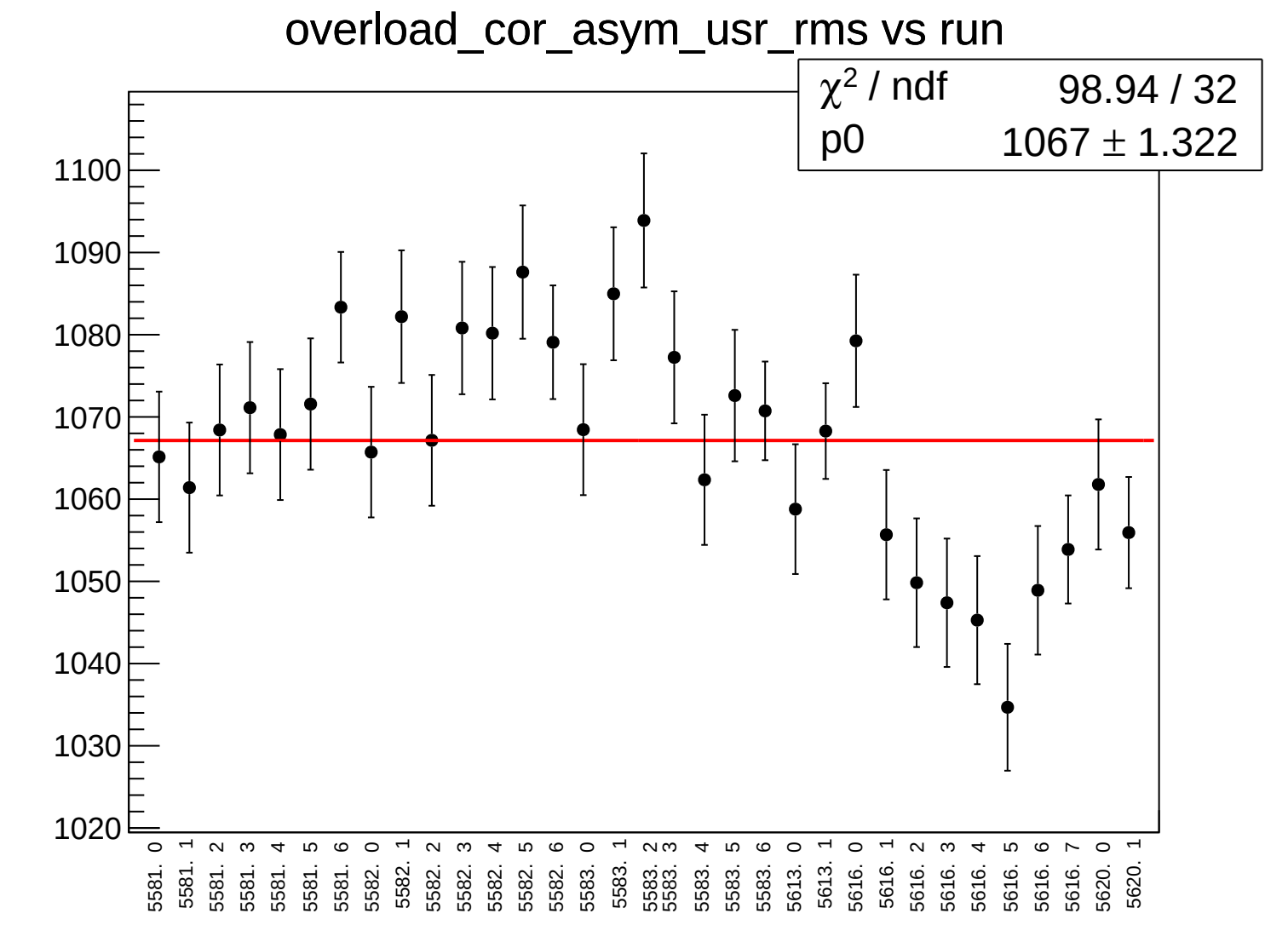

cor_asym_usr_rms vs run
χ² / ndf 95.12 / 32
p0 1069 ± 1.324
1110
1100
1090
1080
1070
1060
1050
1040
1030
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

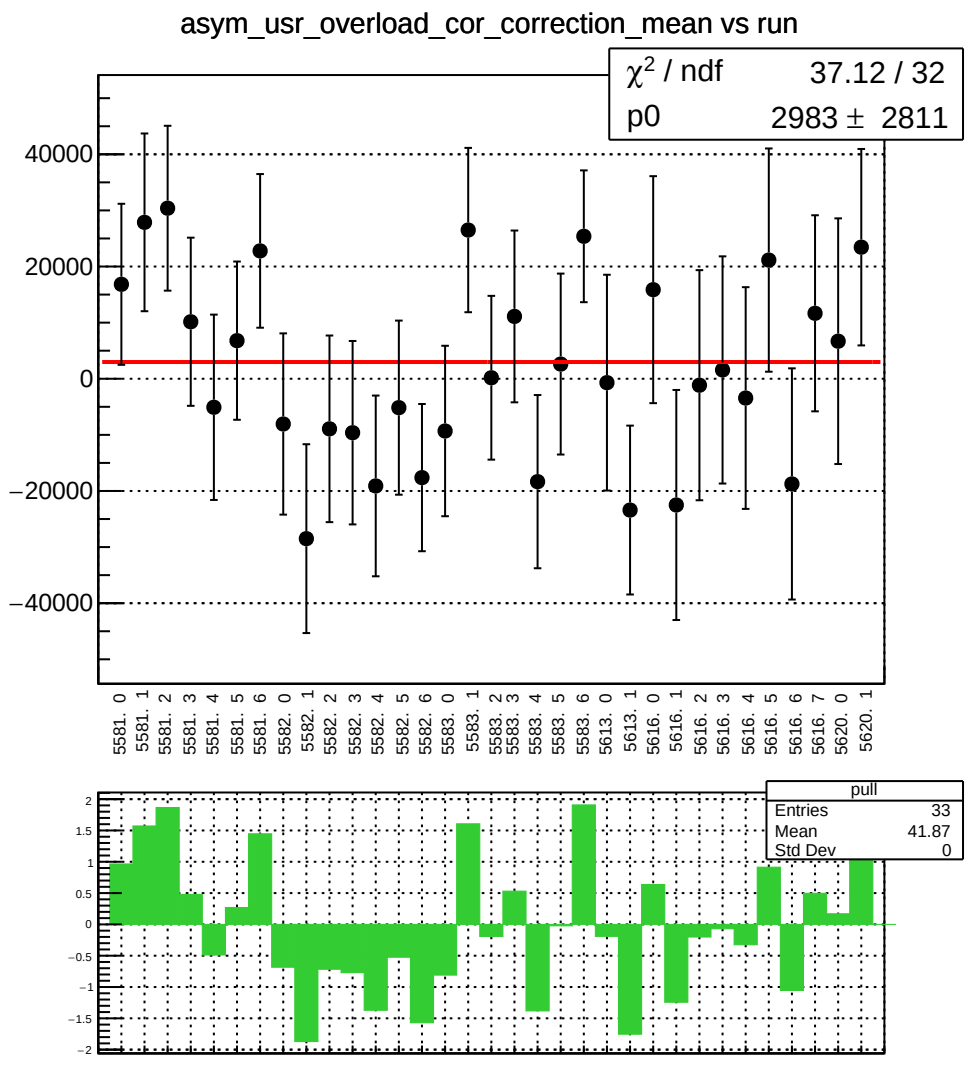

asym_usr_cor_correction_mean vs run
χ² / ndf 36.65 / 32
p0 3169 ± 2809
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 42.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.03651
Std Dev 1.053
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

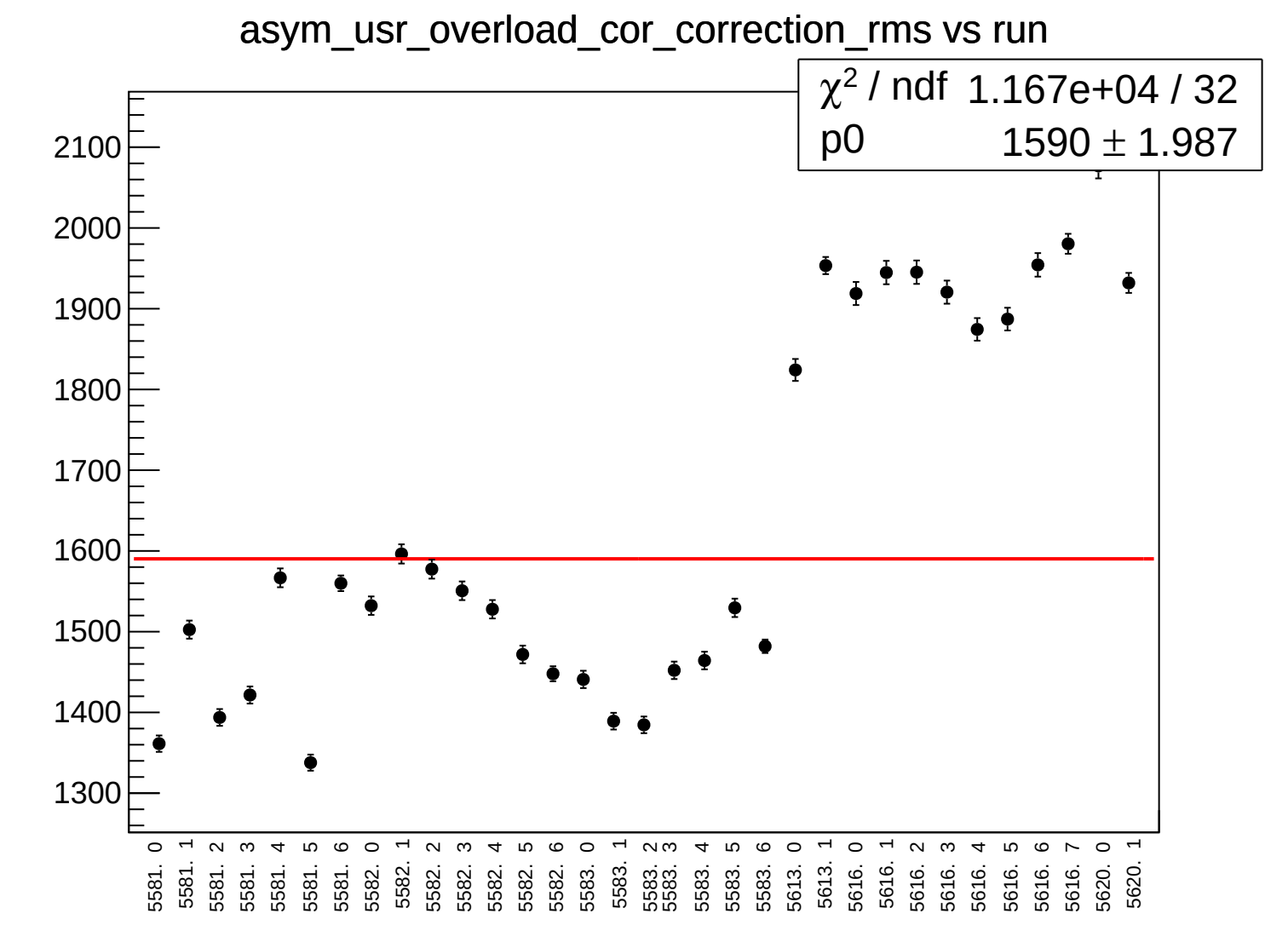

asym_usr_cor_correction_rms vs run
χ² / ndf 1.167e+04 / 32
p0 1589 ± 1.986
2100
2000
1900
1800
1700
1600
1500
1400
1300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

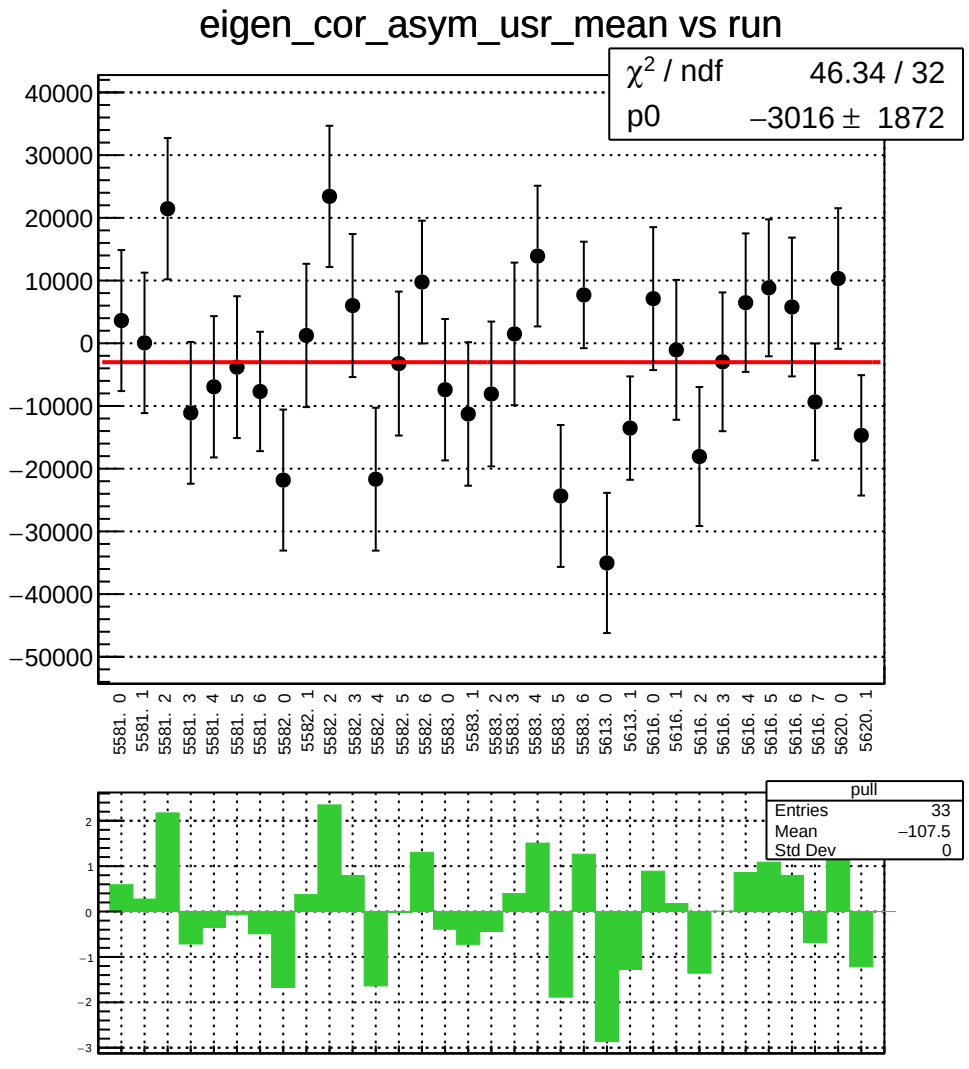

overload_cor_asym_usr_mean vs run
χ² / ndf 46.3 / 32
p0 −3201 ± 1869
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −108.4
Std Dev 0
2
1
0
−1
−2
−3

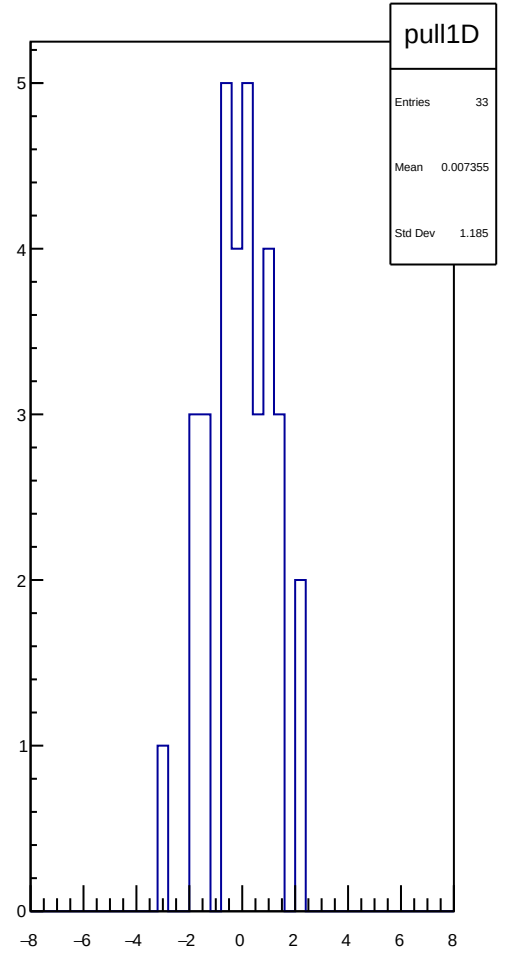

pull1D
Entries 33
Mean 0.007006
Std Dev 1.185
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

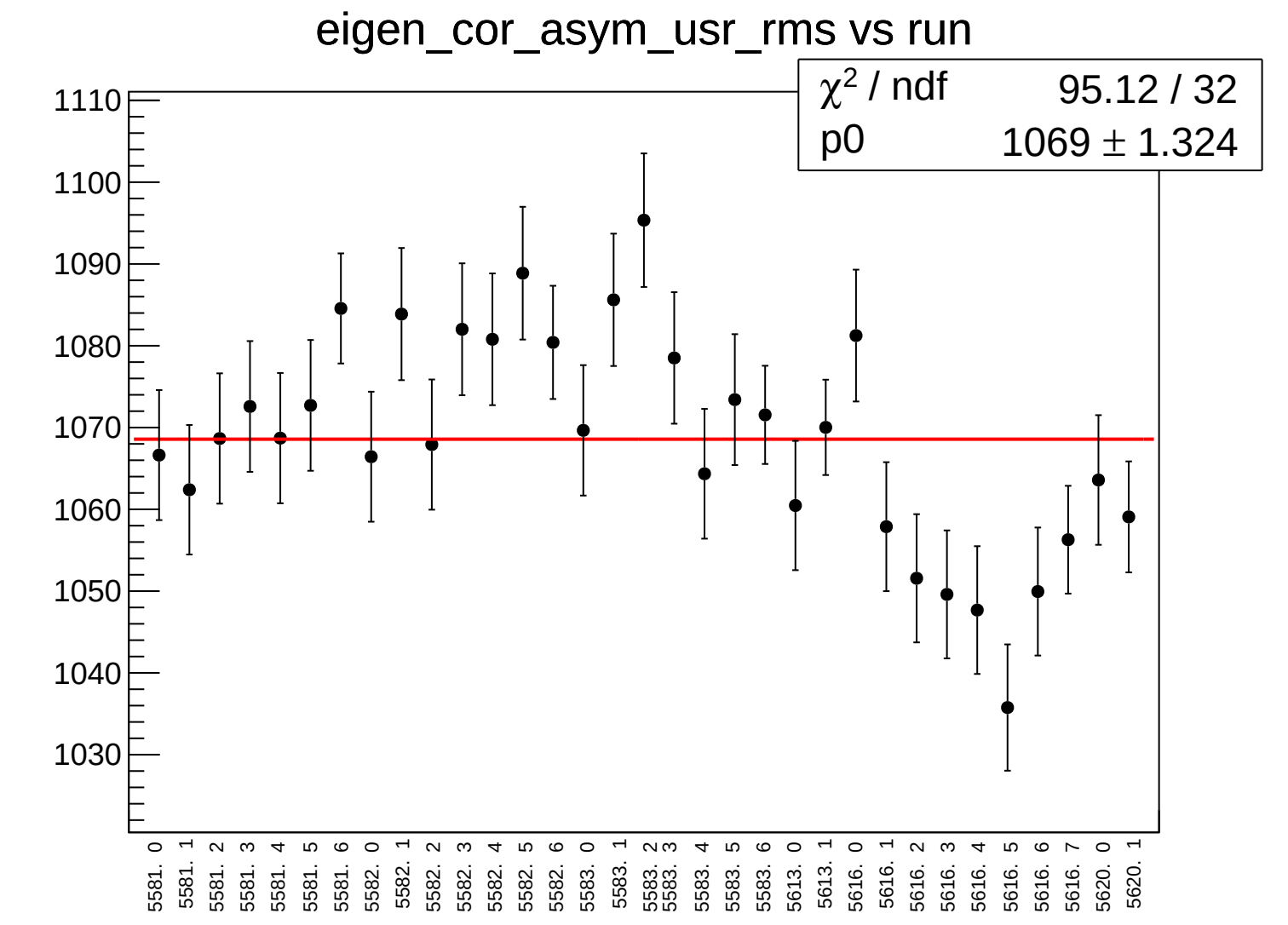

overload_cor_asym_usr_rms vs run
χ² / ndf 98.94 / 32
p0 1067 ± 1.322
1100
1090
1080
1070
1060
1050
1040
1030
1020
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

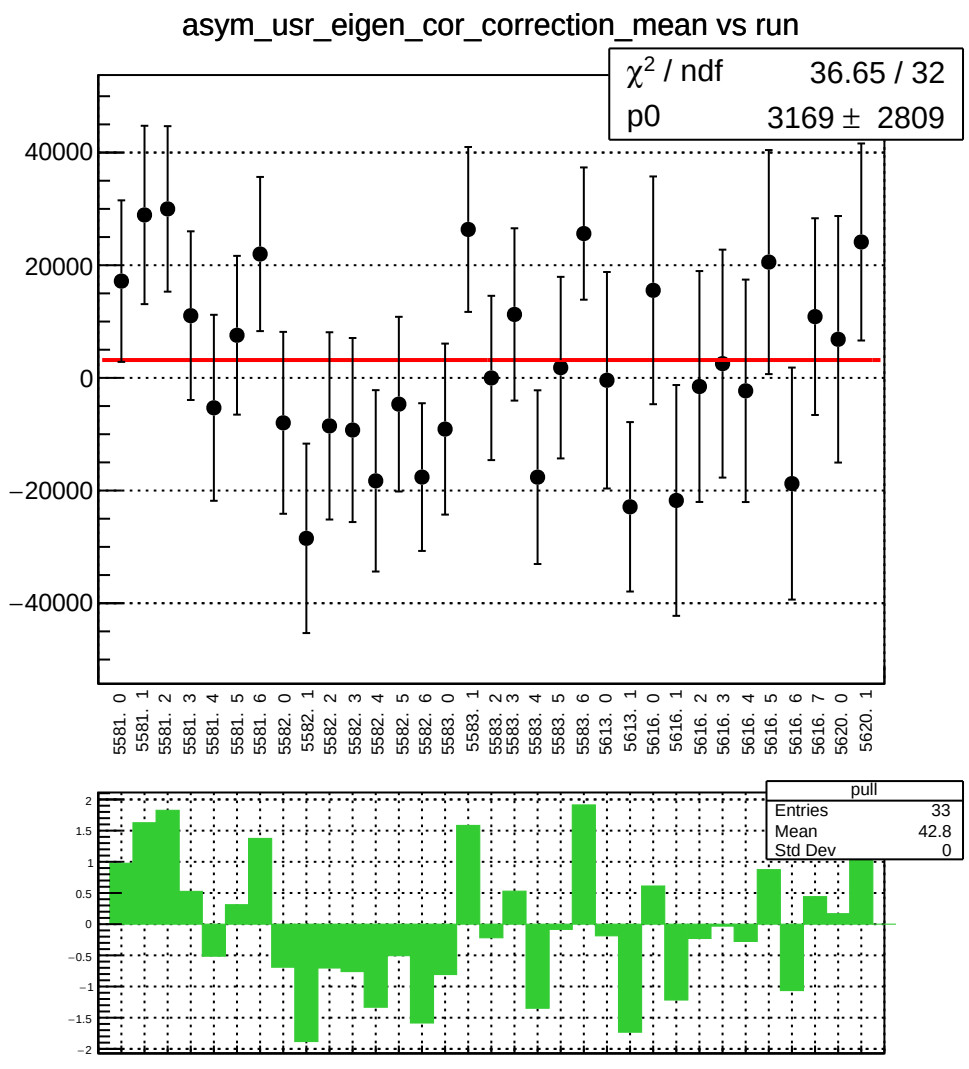

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 37.12 / 32
p0 2983 ± 2811
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 41.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.03674
Std Dev 1.06
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

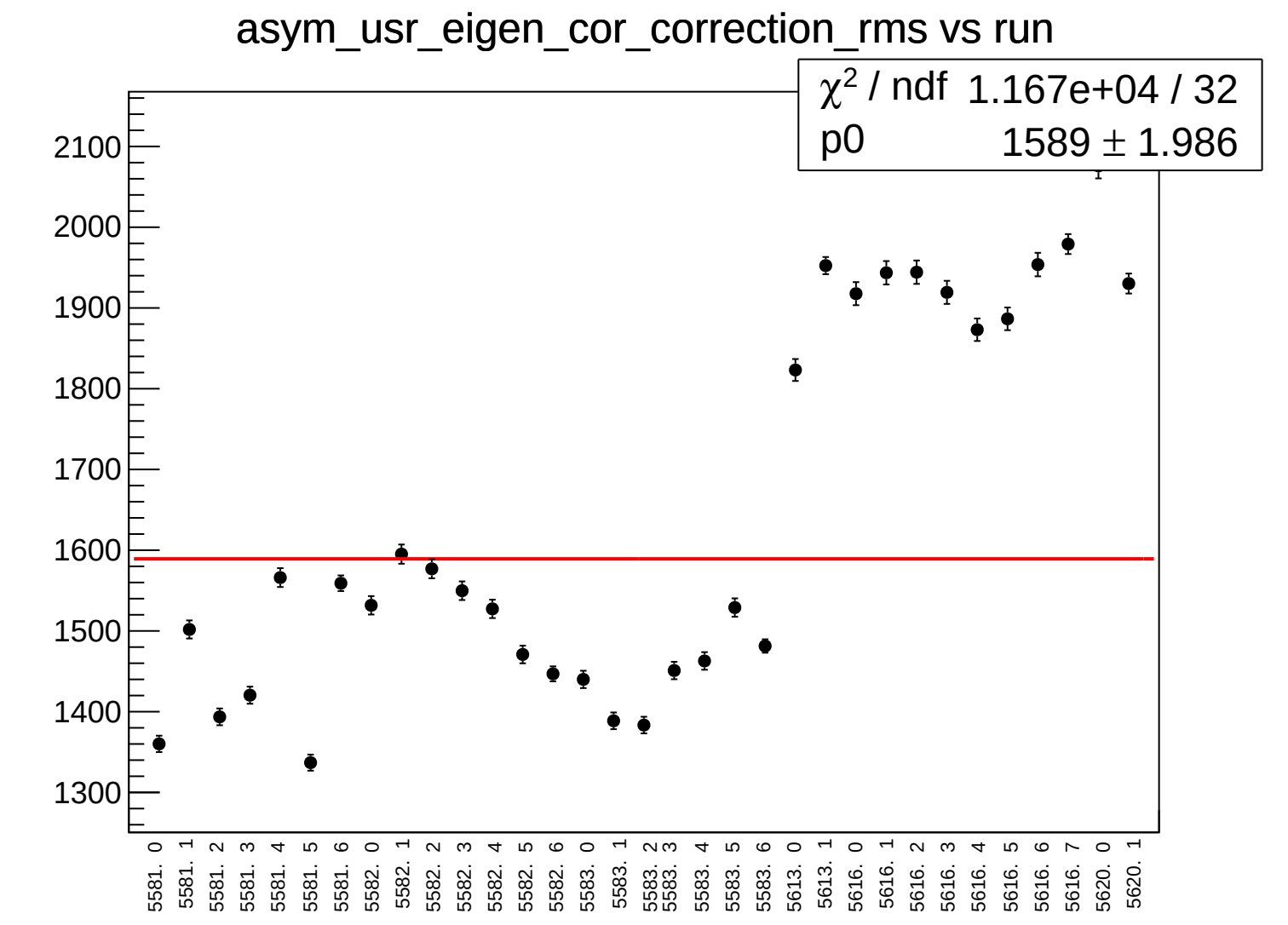

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1.167e+04 / 32
p0 1590 ± 1.987
2100
2000
1900
1800
1700
1600
1500
1400
1300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

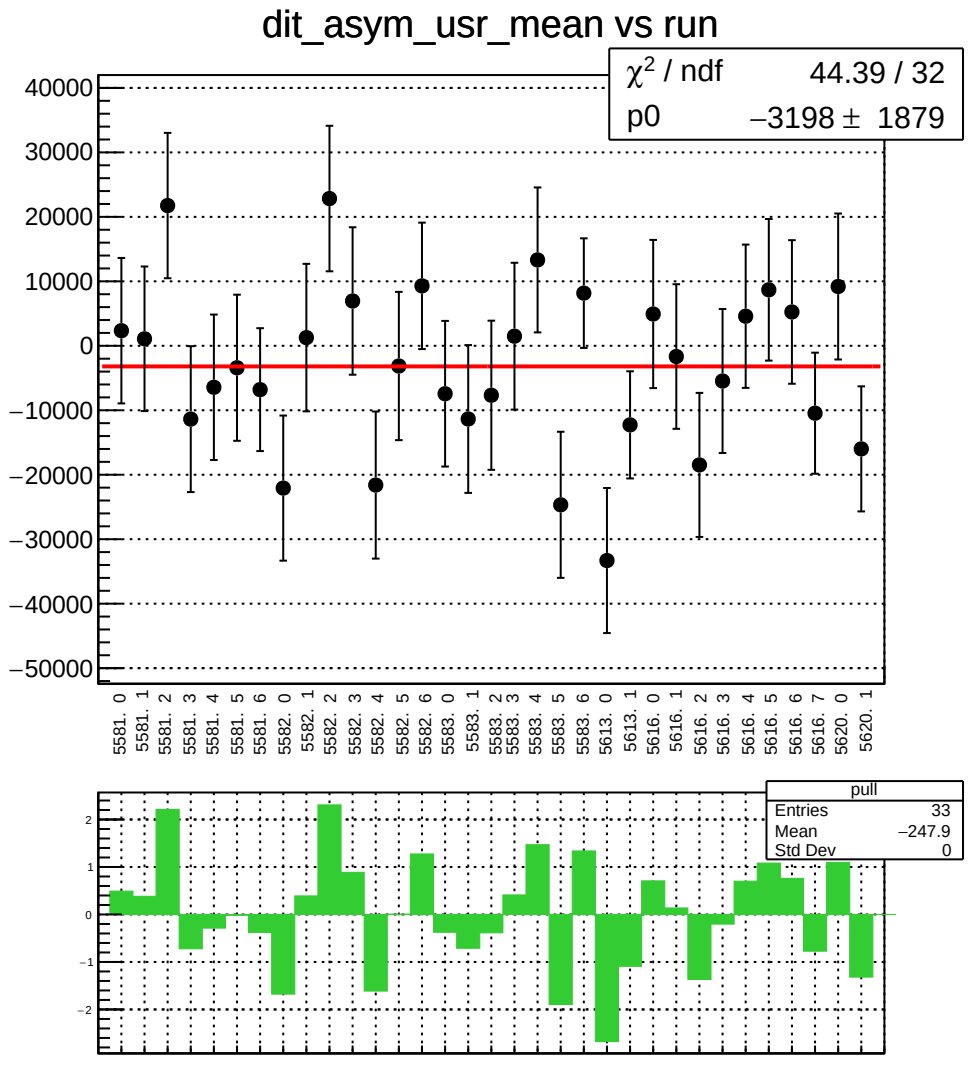

eigen_cor_asym_usr_mean vs run
χ² / ndf 46.34 / 32
p0 −3016 ± 1872
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −107.5
Std Dev 0
2
1
0
−1
−2
−3

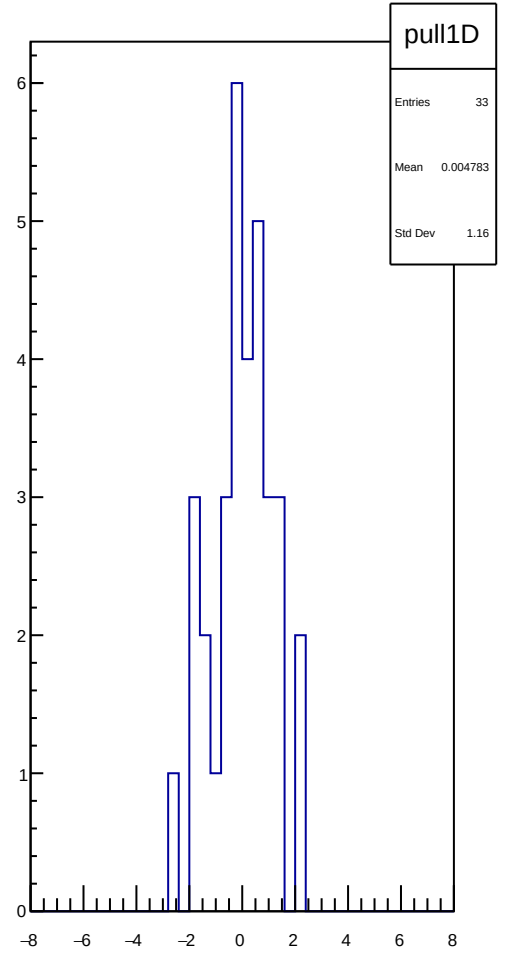

pull1D
Entries 33
Mean 0.007355
Std Dev 1.185
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

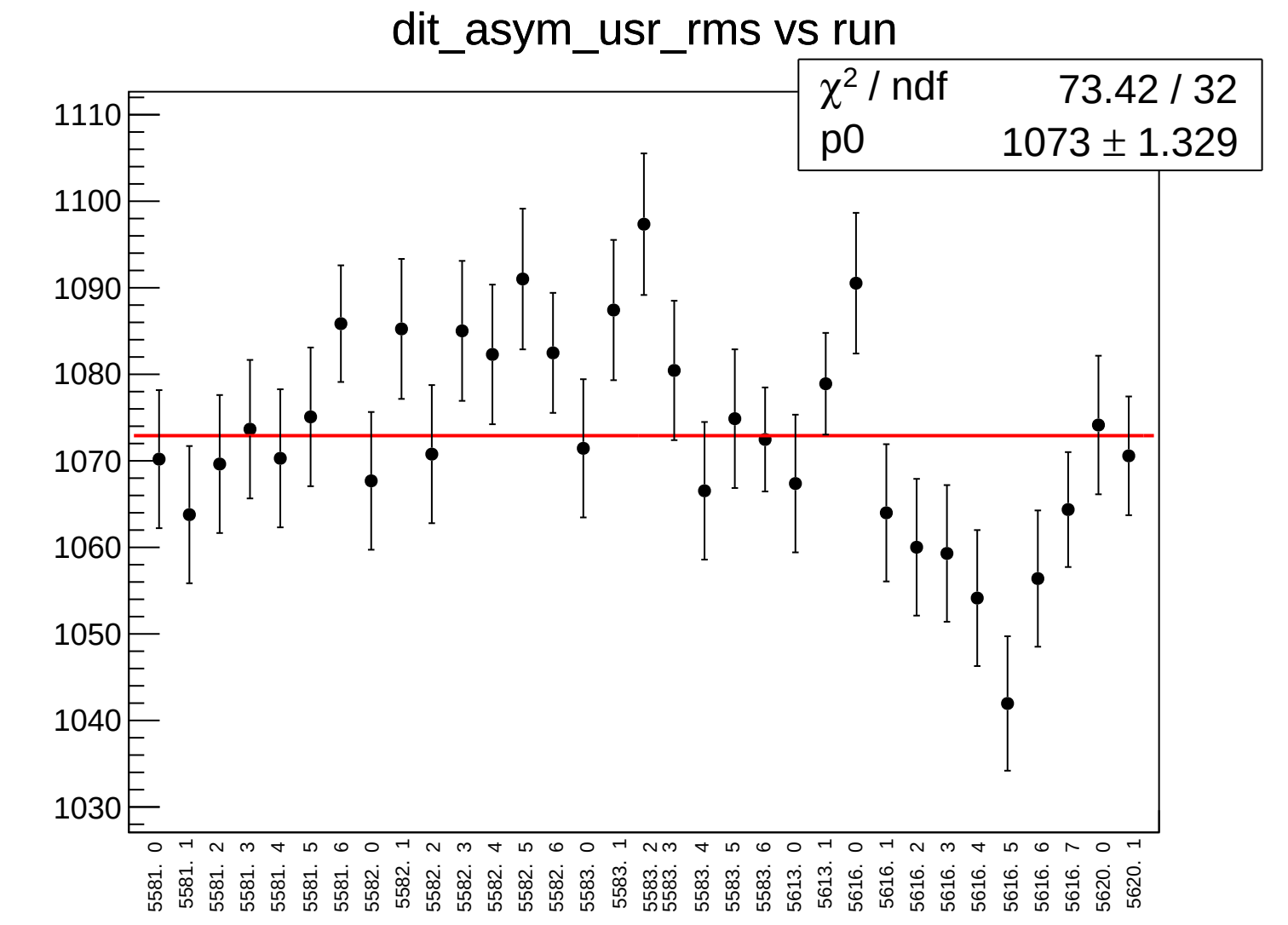

eigen_cor_asym_usr_rms vs run
χ² / ndf 95.12 / 32
p0 1069 ± 1.324
1110
1100
1090
1080
1070
1060
1050
1040
1030
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

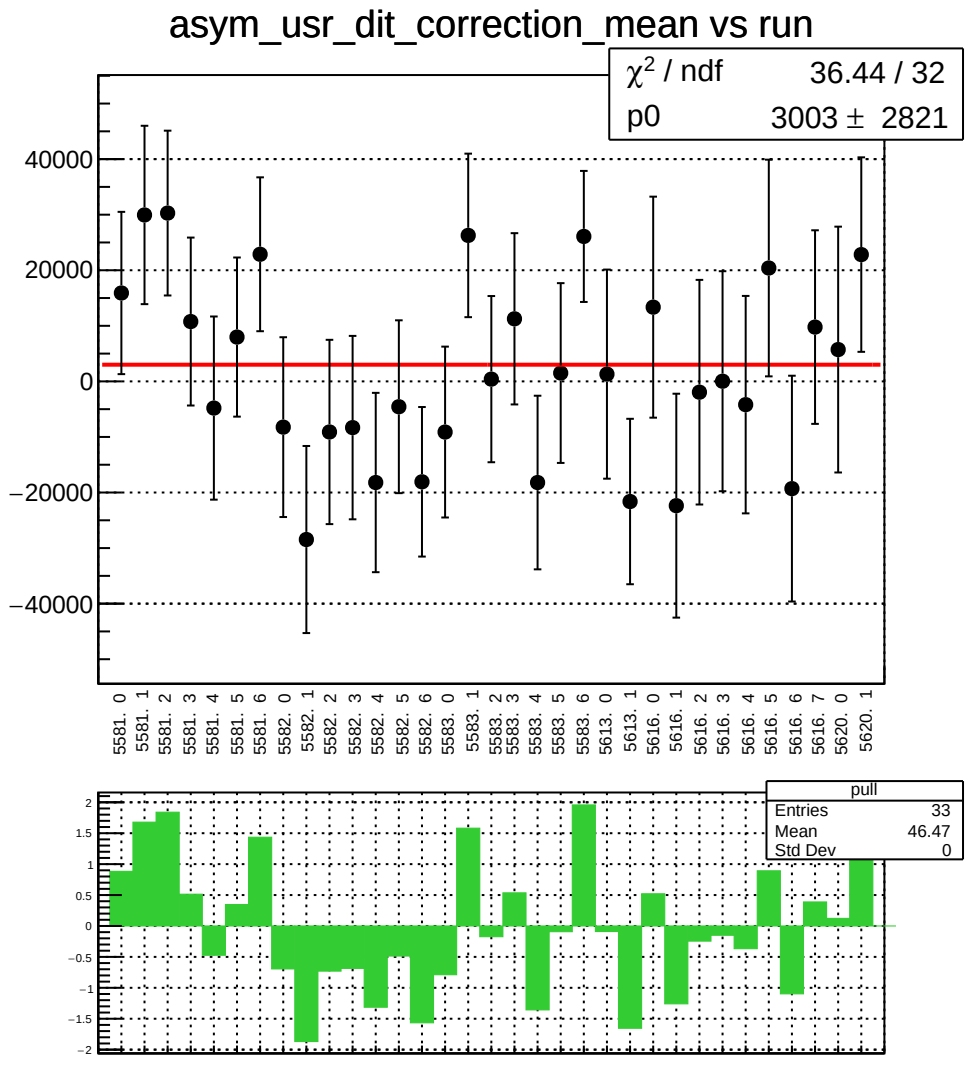

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 36.65 / 32
p0 3169 ± 2809
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 42.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.03651
Std Dev 1.053
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

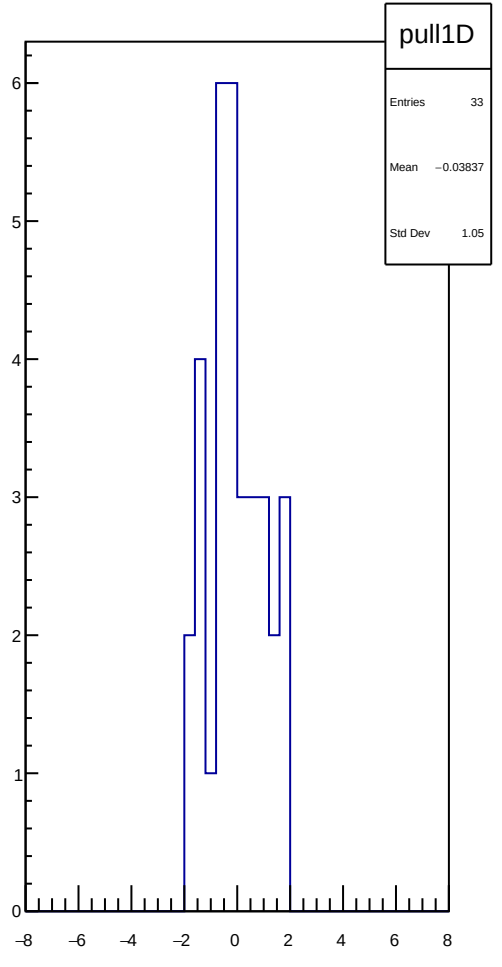

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 1.167e+04 / 32
p0 1589 ± 1.986
2100
2000
1900
1800
1700
1600
1500
1400
1300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

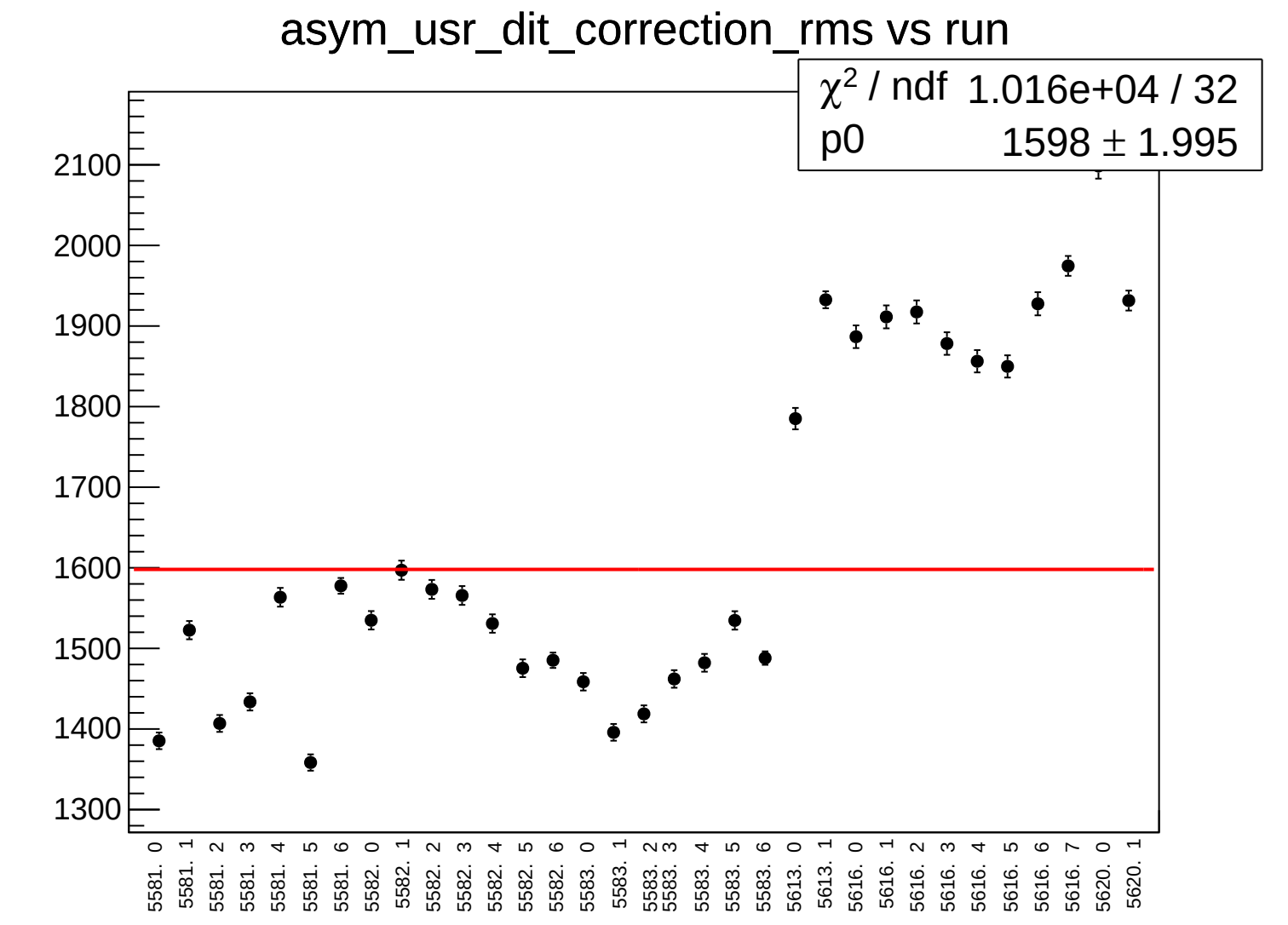

dit_asym_usr_mean vs run
χ² / ndf 44.39 / 32
p0 −3198 ± 1879
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −247.9
Std Dev 0
2
1
0
−1
−2

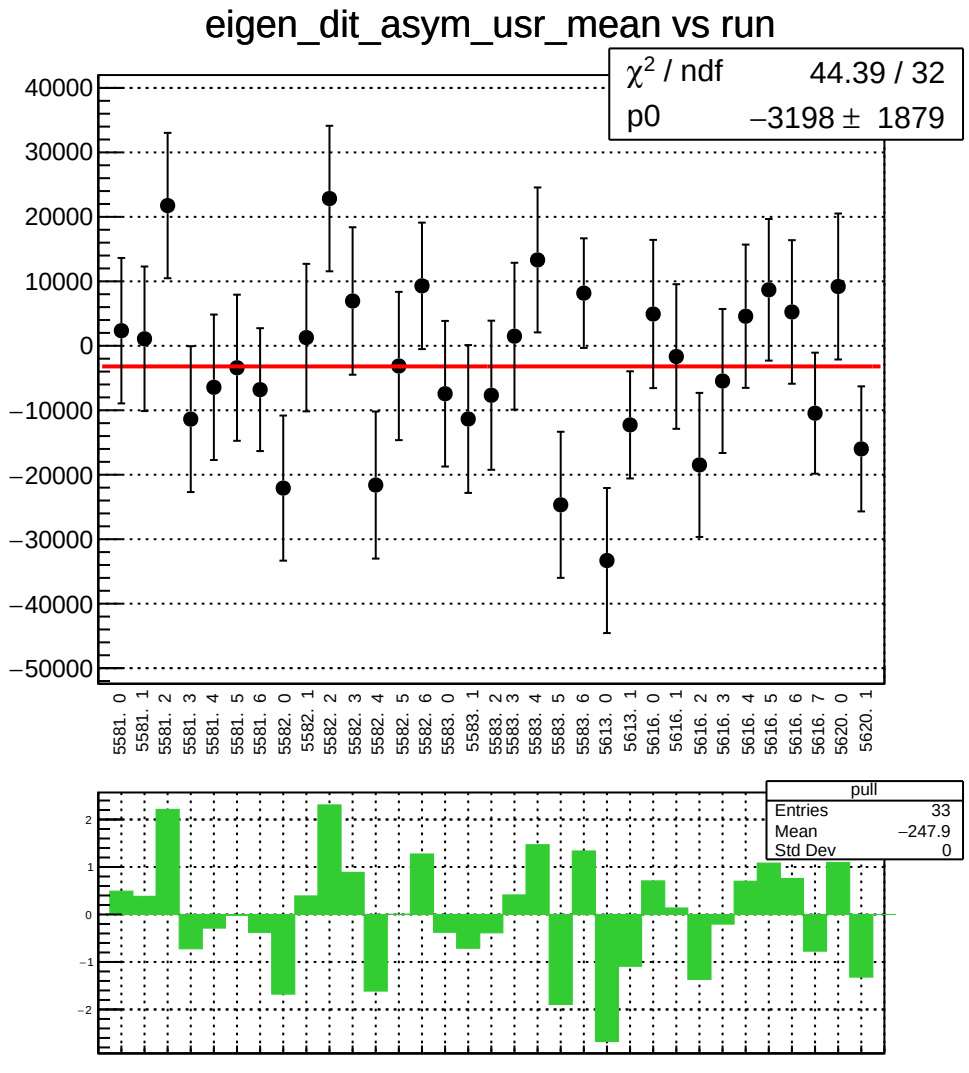

pull1D
Entries 33
Mean 0.004783
Std Dev 1.16
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

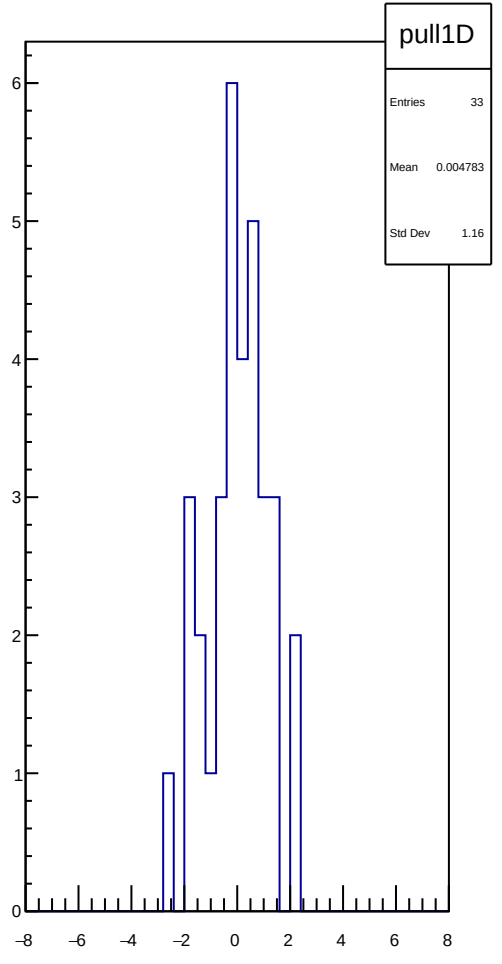

dit_asym_usr_rms vs run
χ² / ndf 73.42 / 32
p0 1073 ± 1.329
1110
1100
1090
1080
1070
1060
1050
1040
1030
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

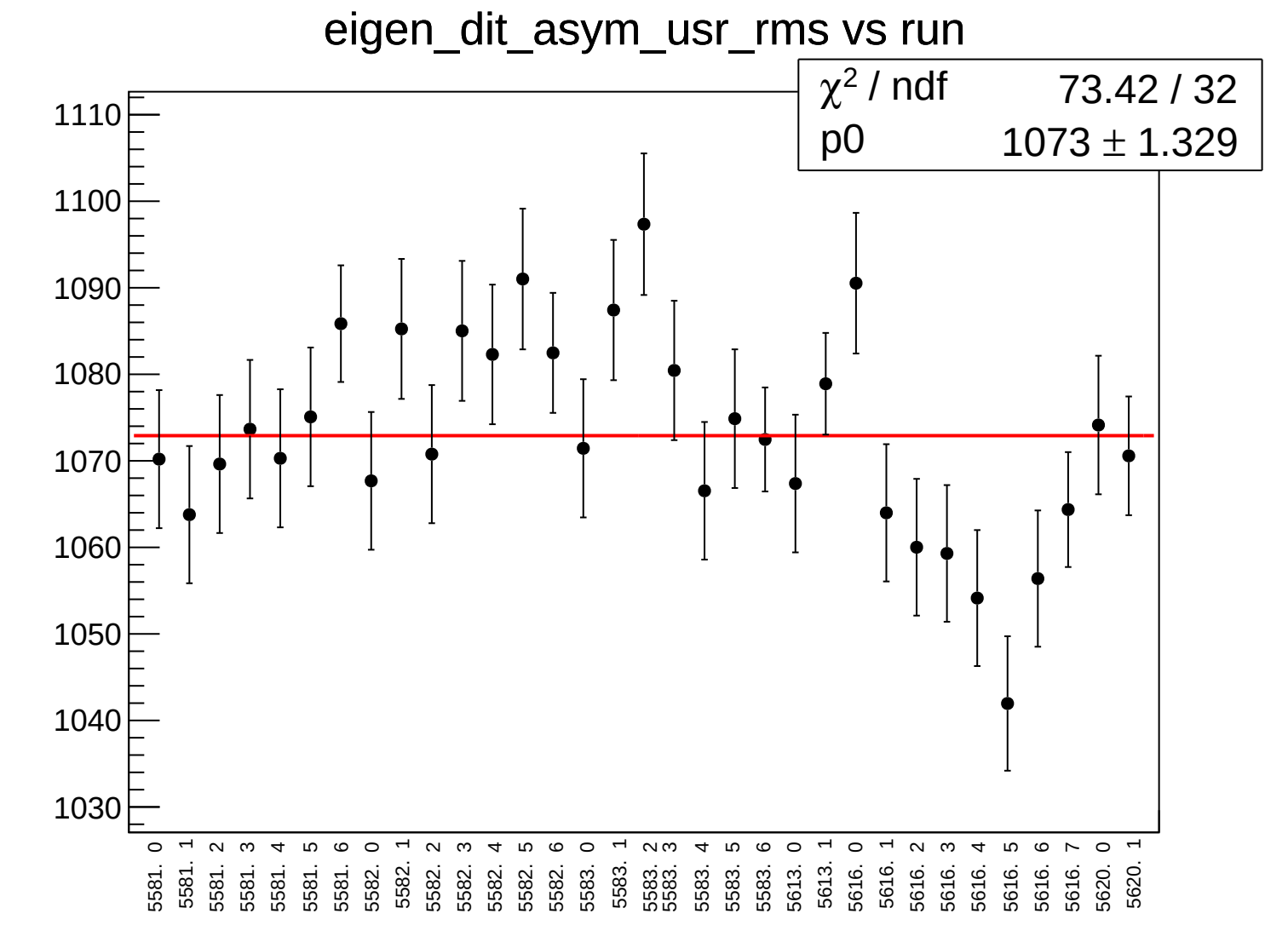

asym_usr_dit_correction_mean vs run
χ² / ndf 36.44 / 32
p0 3003 ± 2821
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 46.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

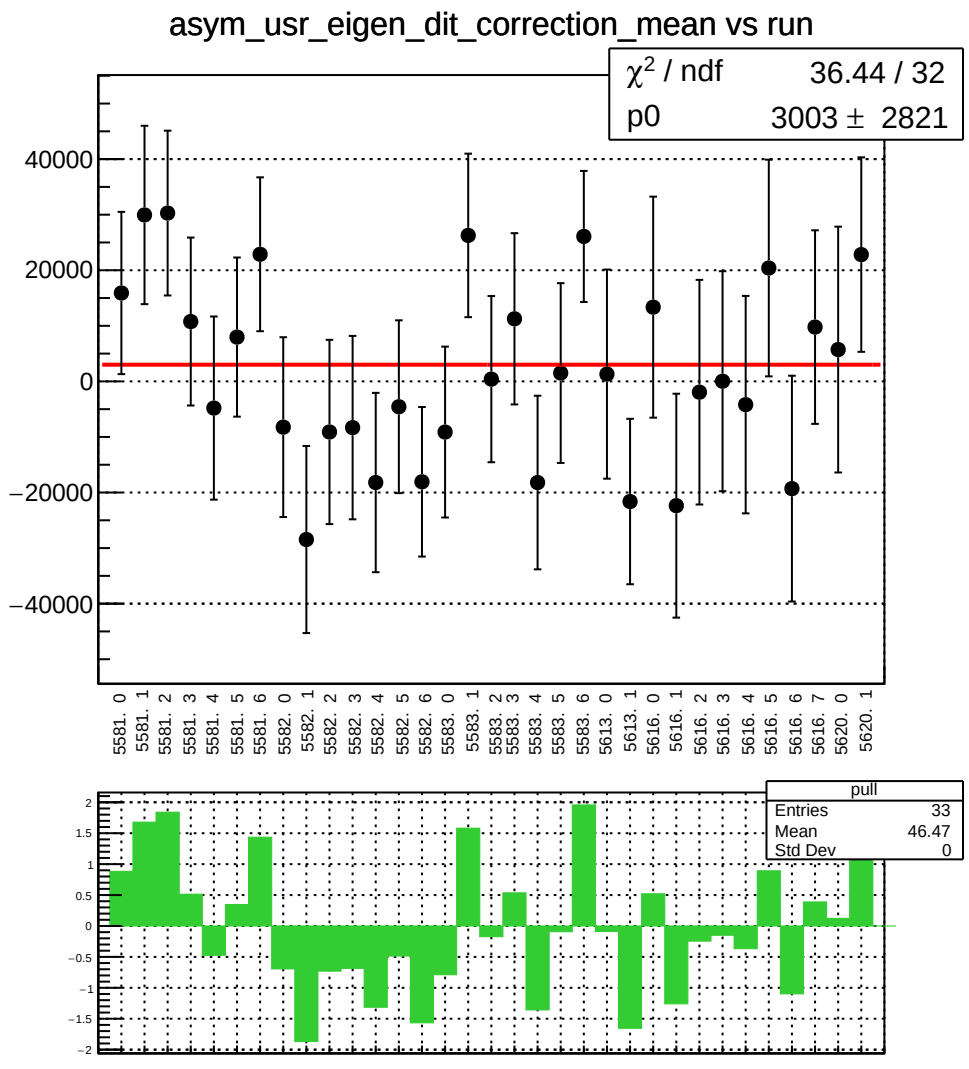

pull1D
Entries 33
Mean −0.03837
Std Dev 1.05
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

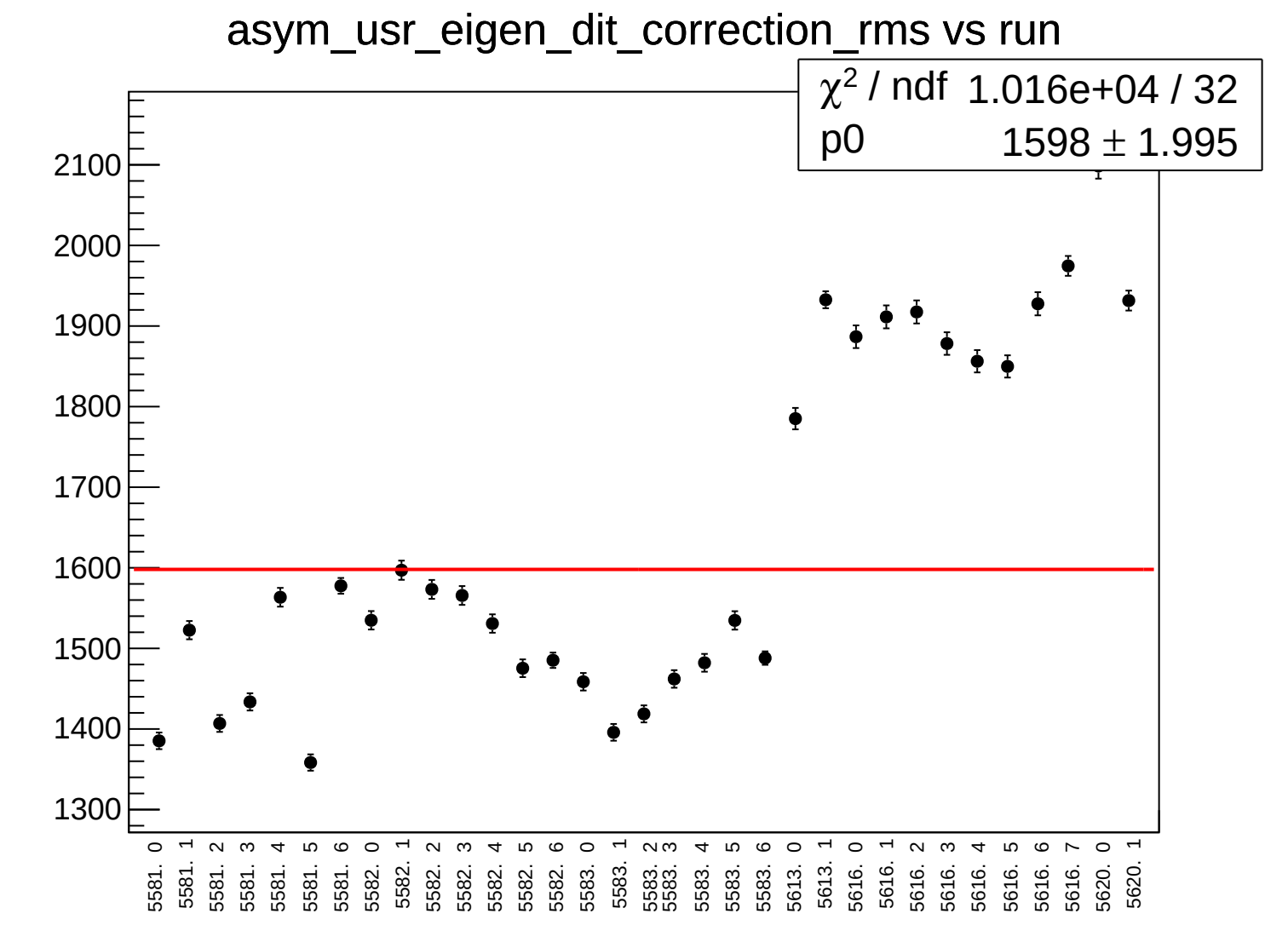

asym_usr_dit_correction_rms vs run
χ² / ndf 1.016e+04 / 32
p0 1598 ± 1.995
2100
2000
1900
1800
1700
1600
1500
1400
1300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

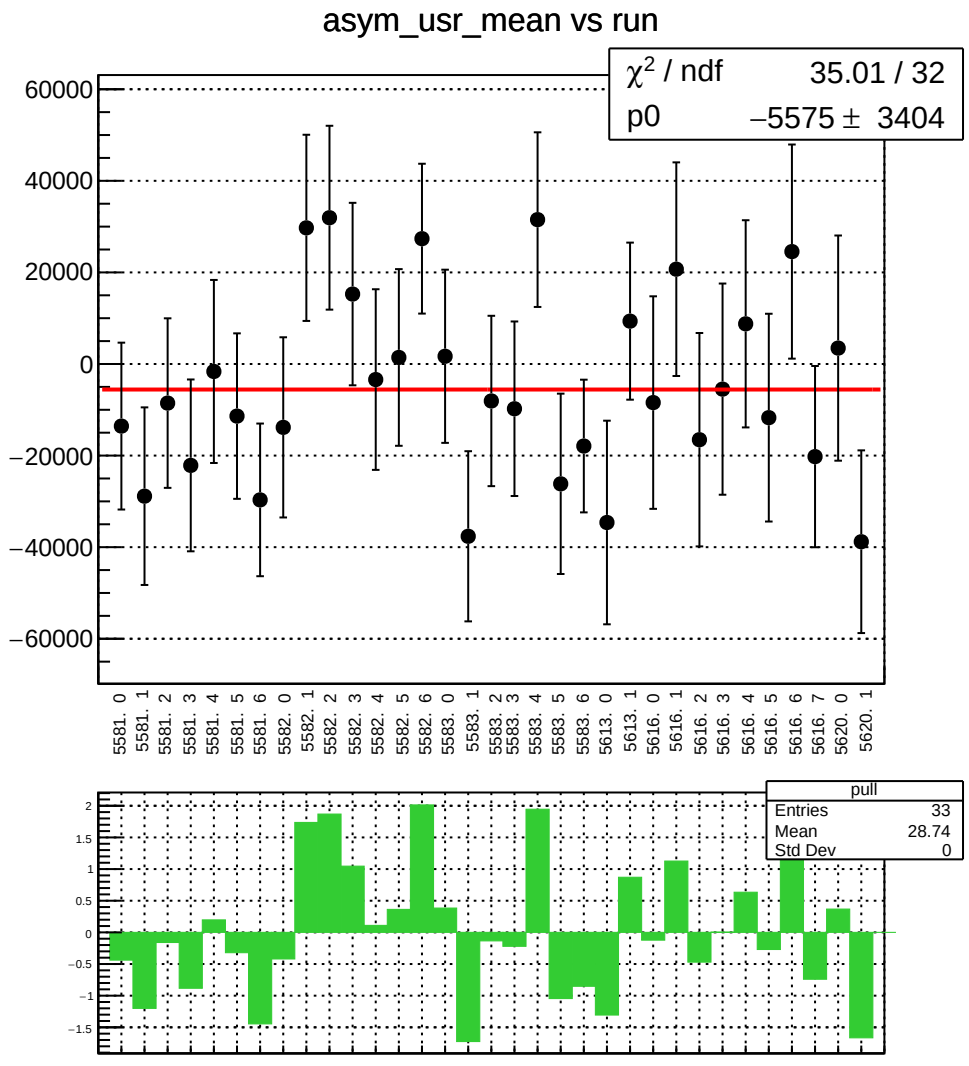

eigen_dit_asym_usr_mean vs run
χ² / ndf 44.39 / 32
p0 −3198 ± 1879
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −247.9
Std Dev 0
2
1
0
−1
−2

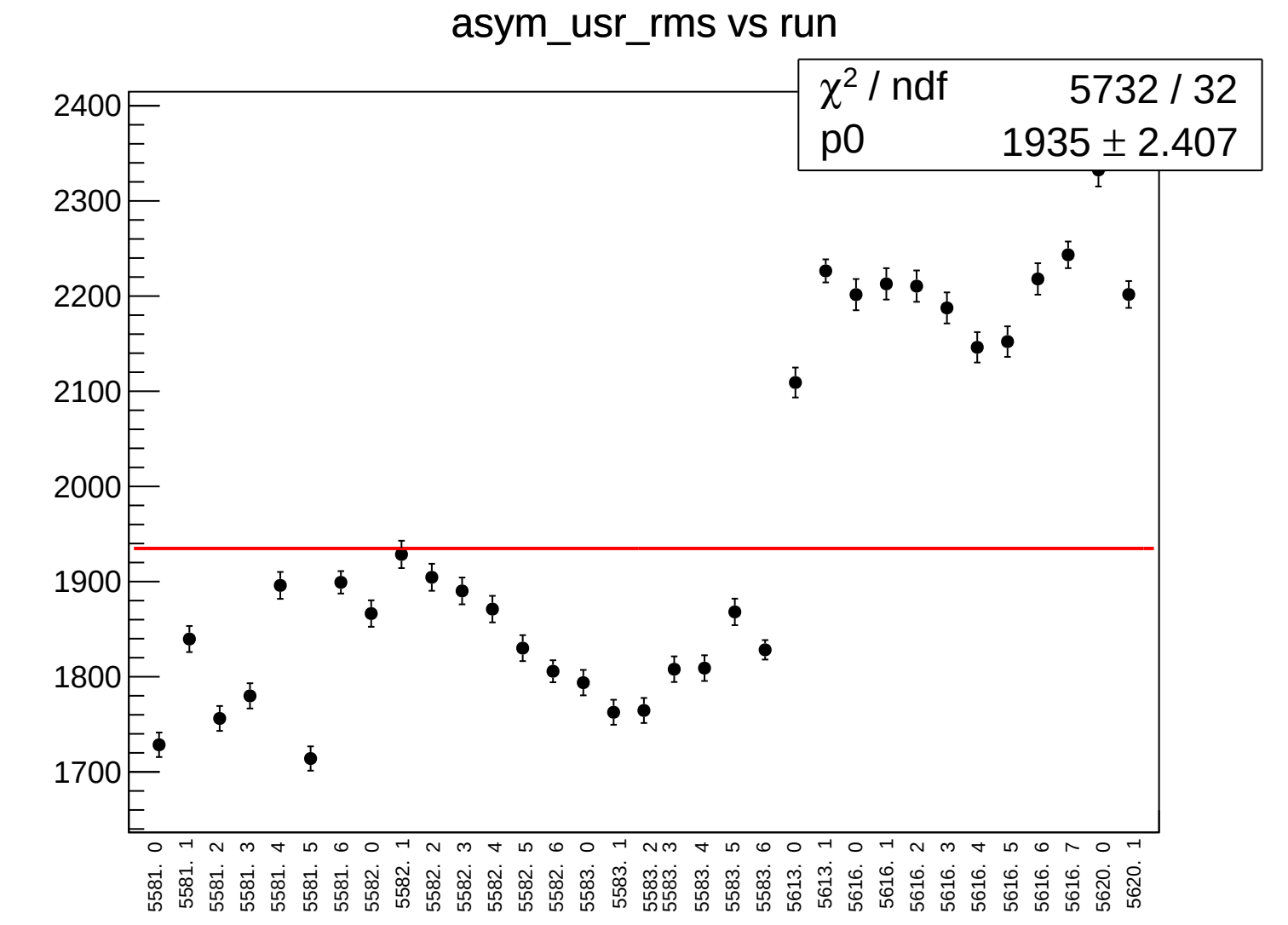

pull1D
Entries 33
Mean 0.004783
Std Dev 1.16
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

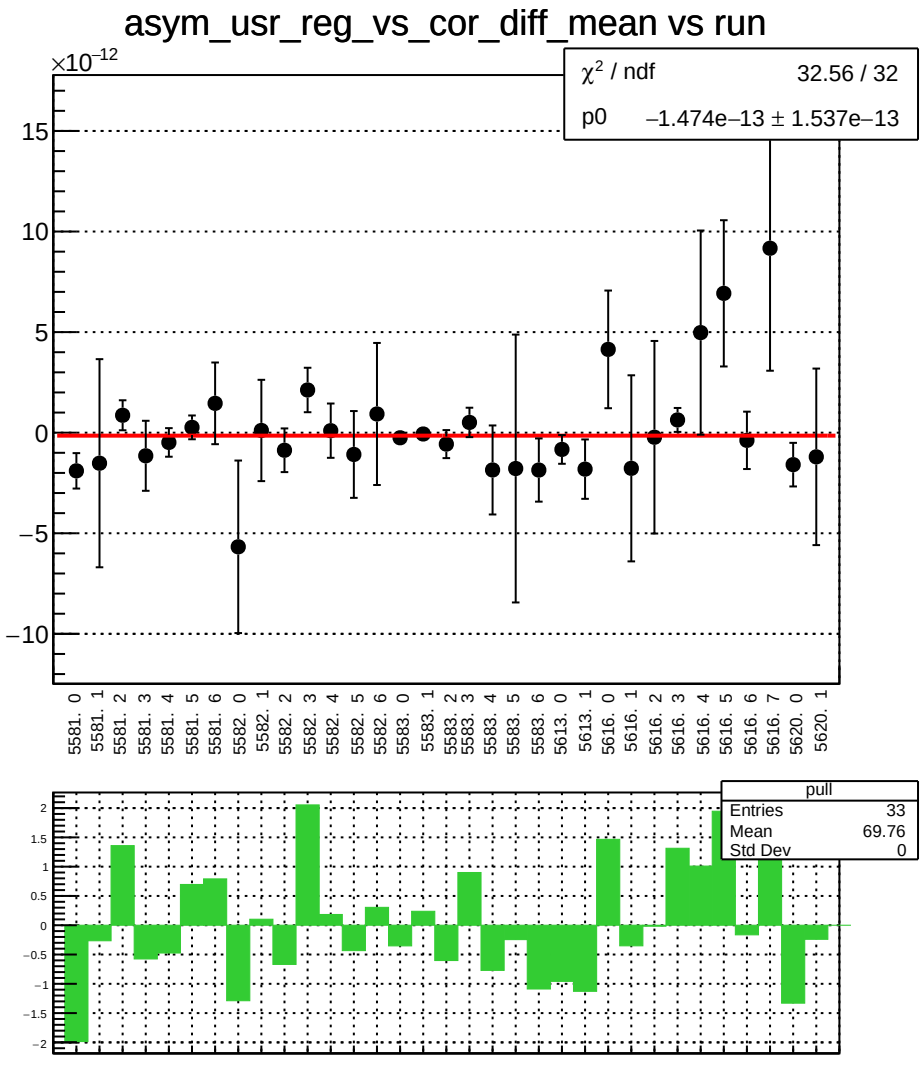

eigen_dit_asym_usr_rms vs run
χ² / ndf 73.42 / 32
p0 1073 ± 1.329
1110
1100
1090
1080
1070
1060
1050
1040
1030
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

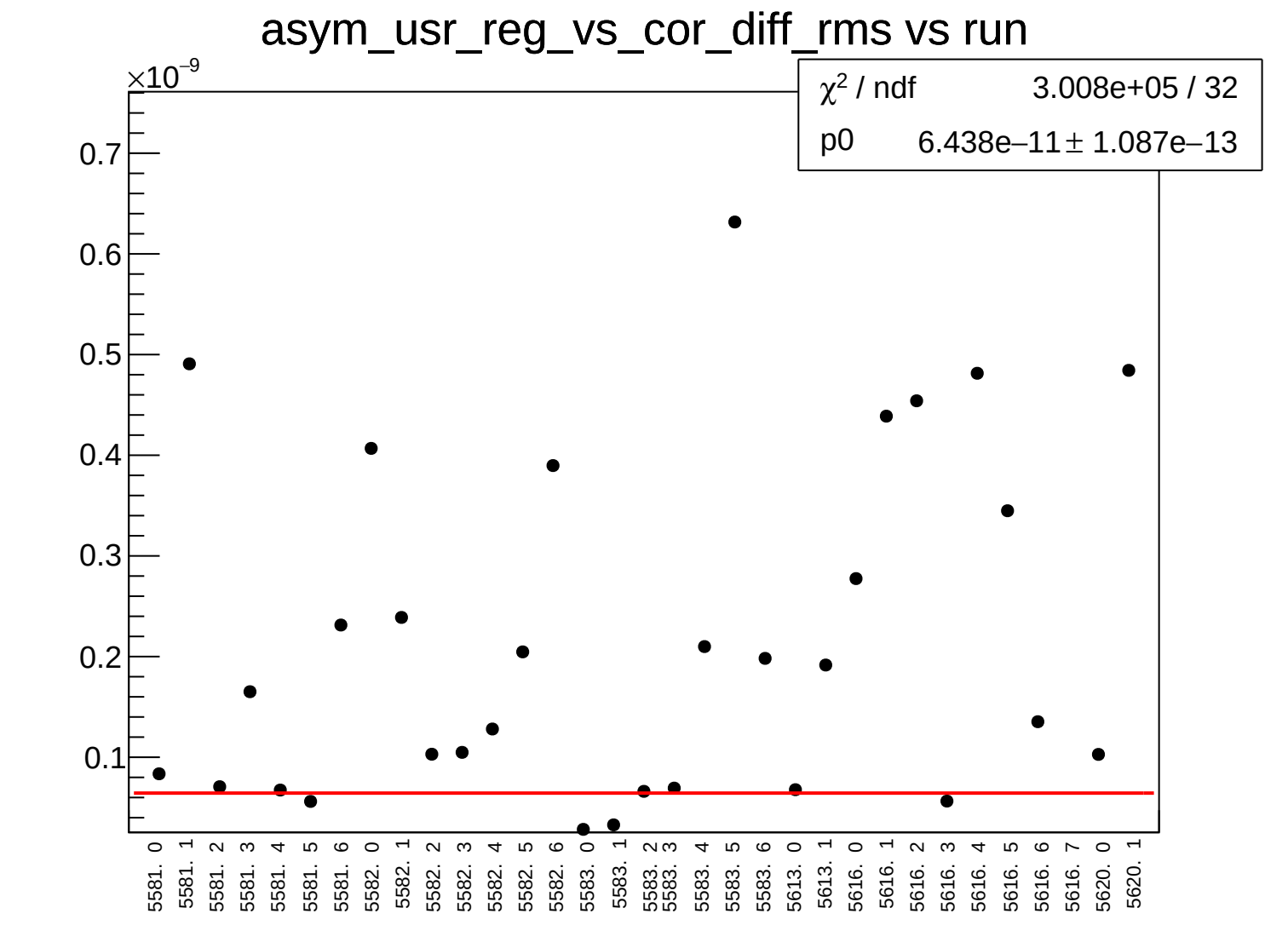

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 36.44 / 32
p0 3003 ± 2821
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 46.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.03837
Std Dev 1.05
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

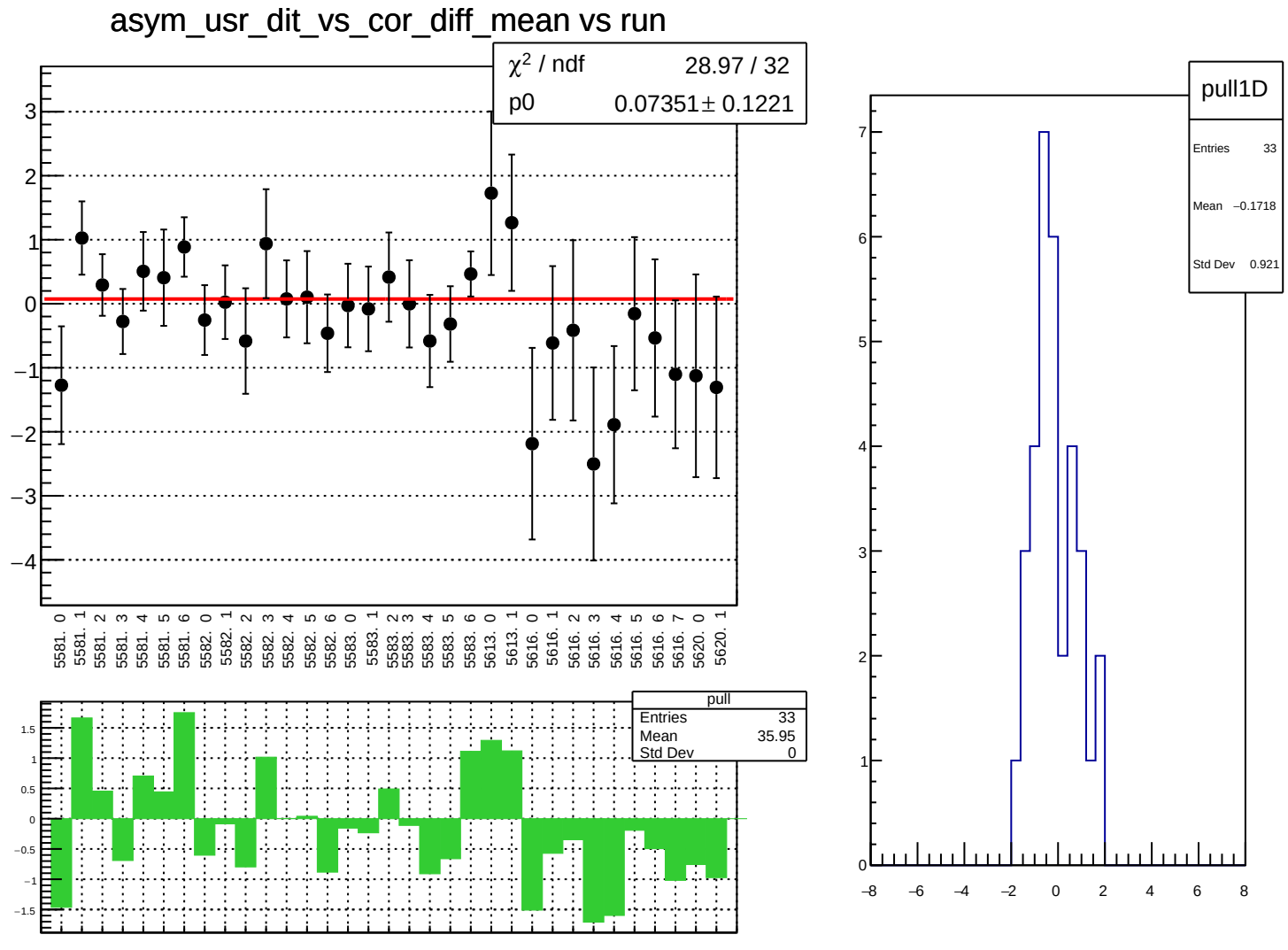

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 1.016e+04 / 32
p0 1598 ± 1.995
2100
2000
1900
1800
1700
1600
1500
1400
1300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

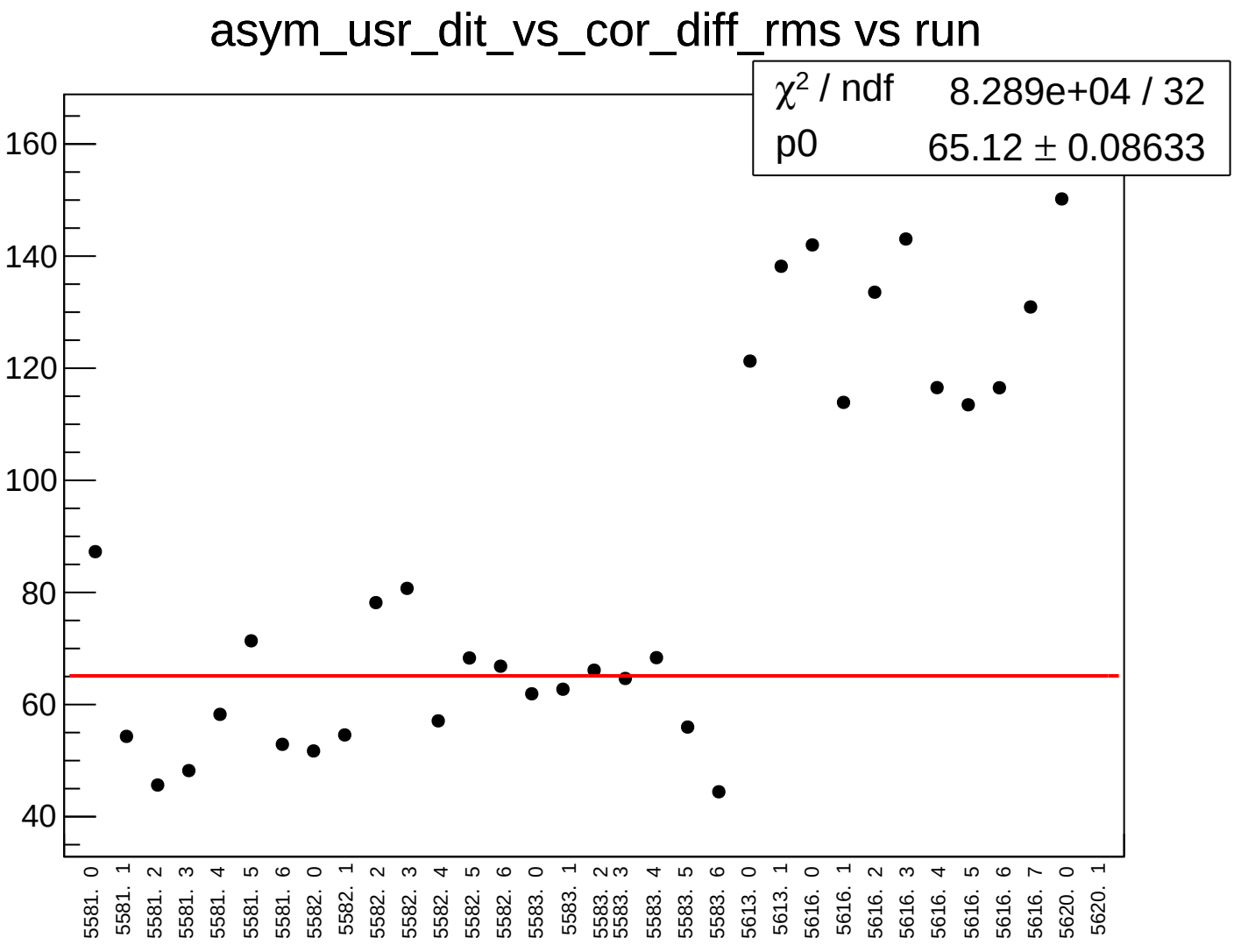

asym_usr_mean vs run
χ² / ndf 35.01 / 32
p0 −5575 ± 3404
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.01625
Std Dev 1.03
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

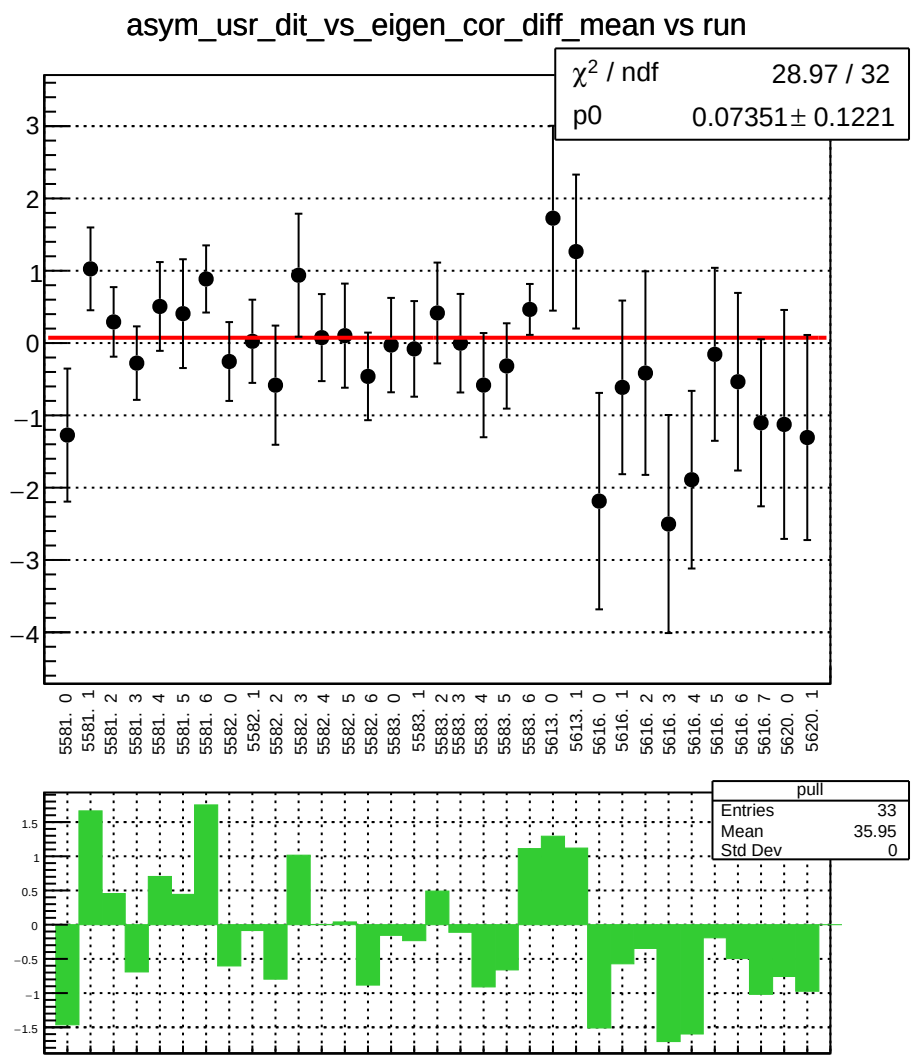

asym_usr_rms vs run
χ² / ndf 5732 / 32
p0 1935 ± 2.407
2400
2300
2200
2100
2000
1900
1800
1700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

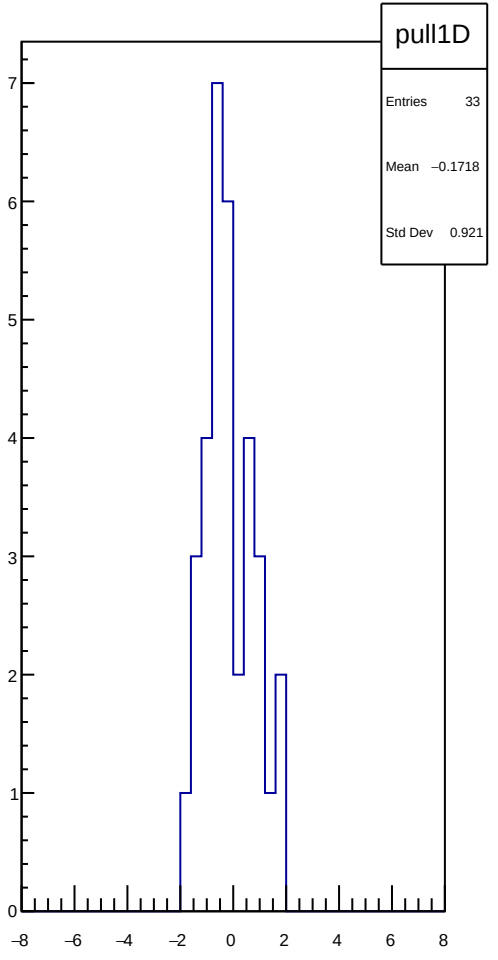

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 32.56 / 32
p0 −1.474e−13 ± 1.537e−13
15
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 69.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.02899
Std Dev 0.9929
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

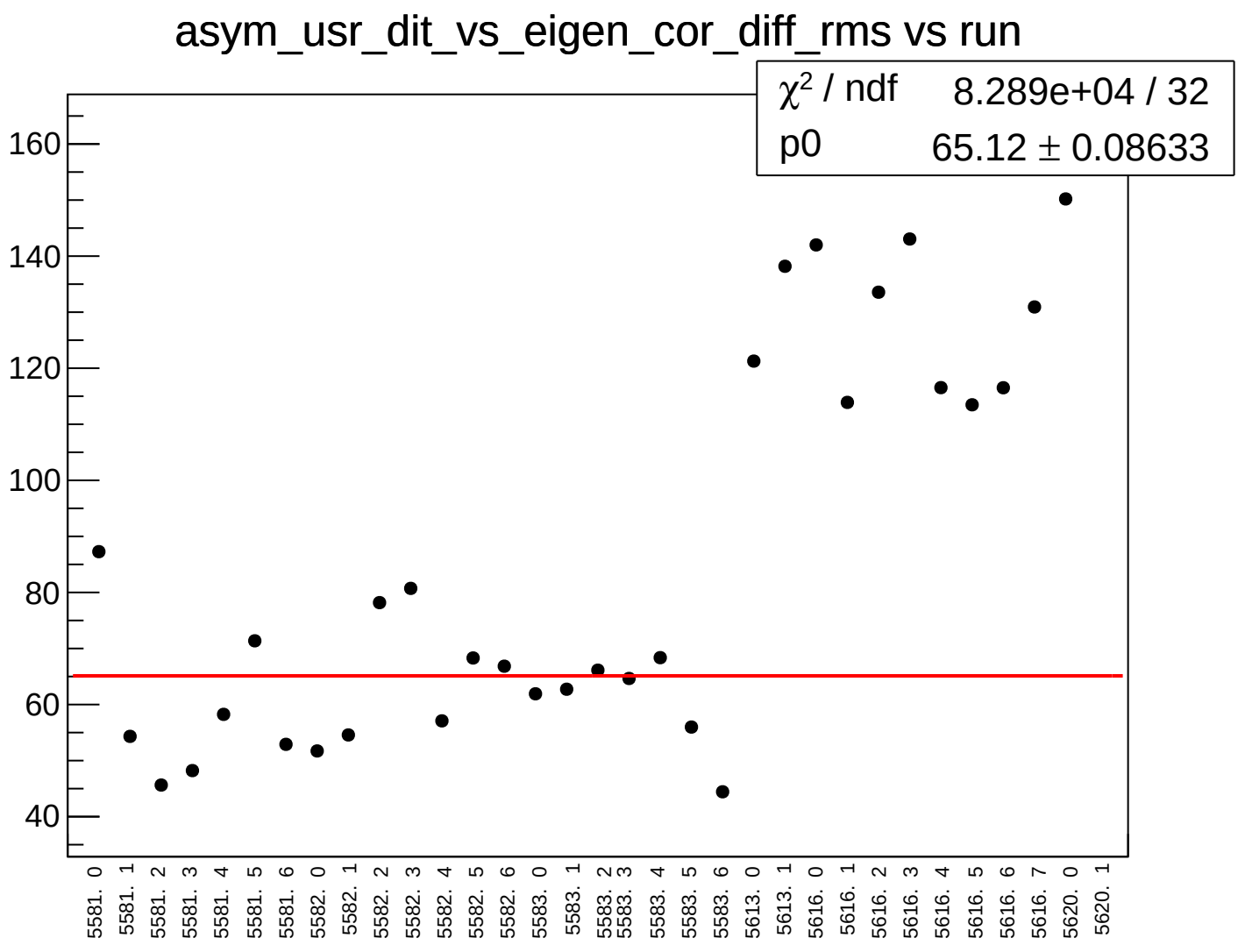

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.008e+05 / 32
p0 6.438e−11 ± 1.087e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

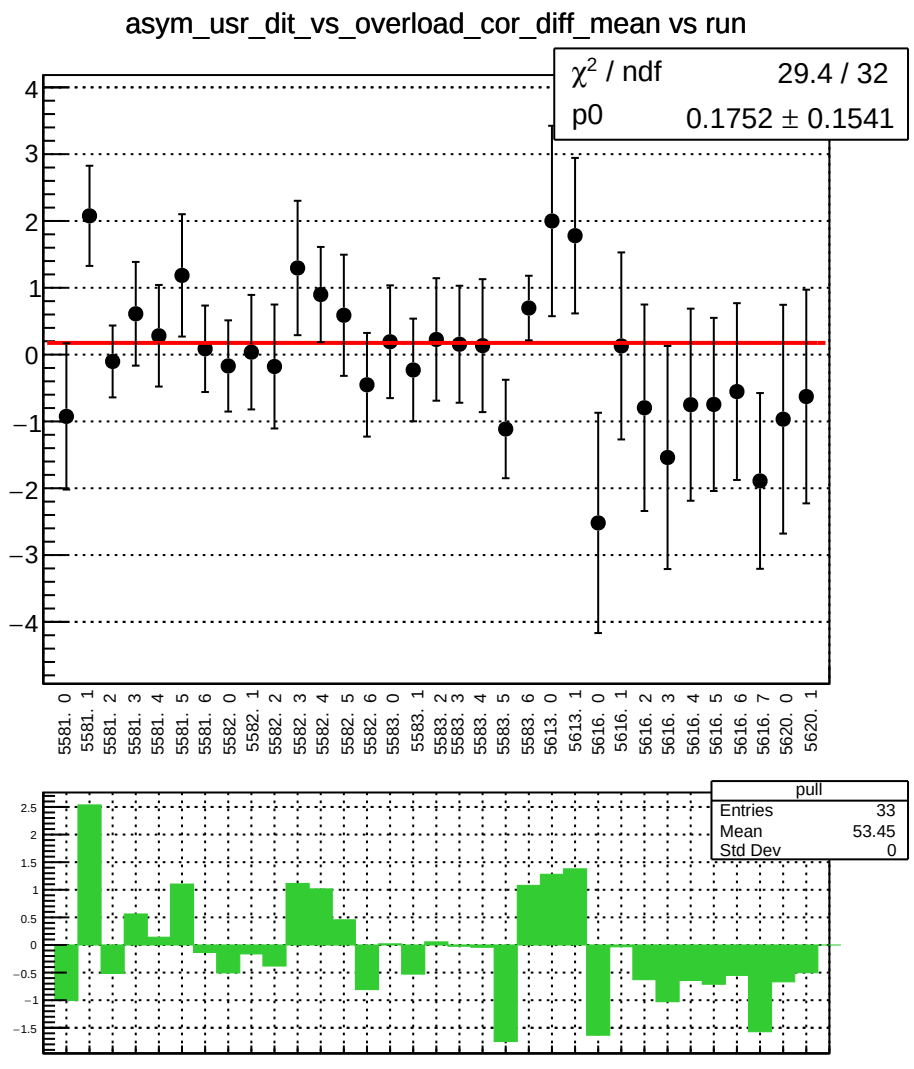

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 28.97 / 32
p0 0.07351 ± 0.1221
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.95
Std Dev 0
pull1D
Entries 33
Mean −0.1718
Std Dev 0.921

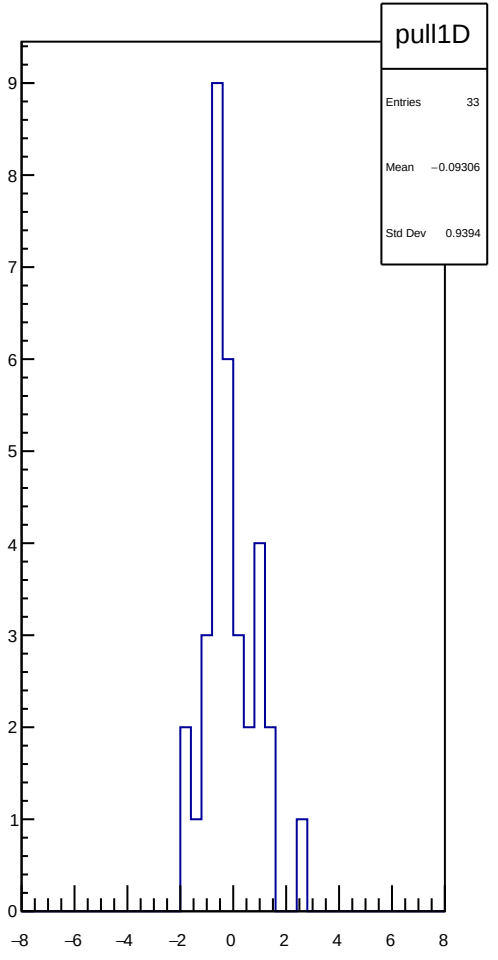

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 8.289e+04 / 32
p0 65.12 ± 0.08633
160
140
120
100
80
60
40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

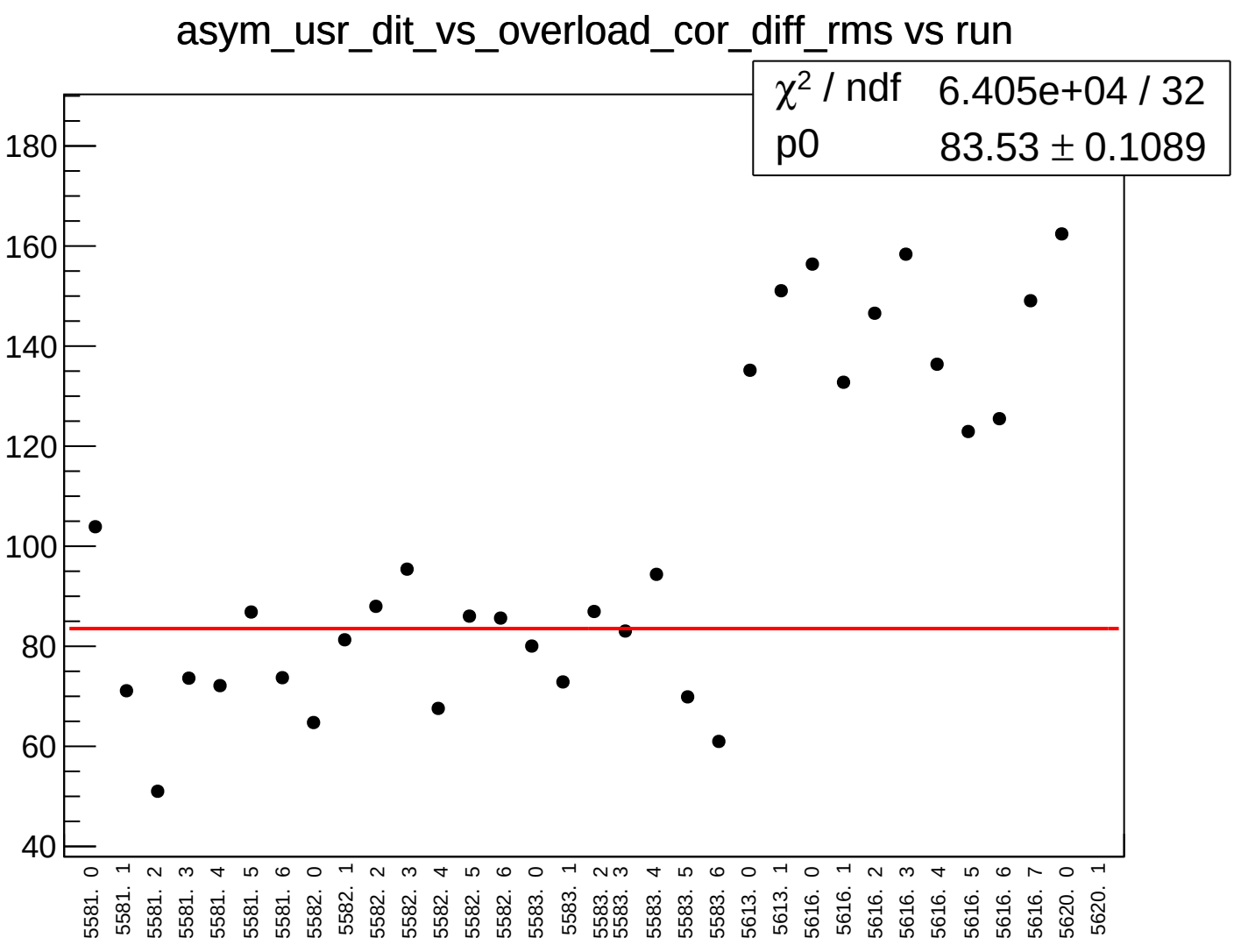

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.97 / 32
p0 0.07351 ± 0.1221
3
2
1
0
−1
−2
−3
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

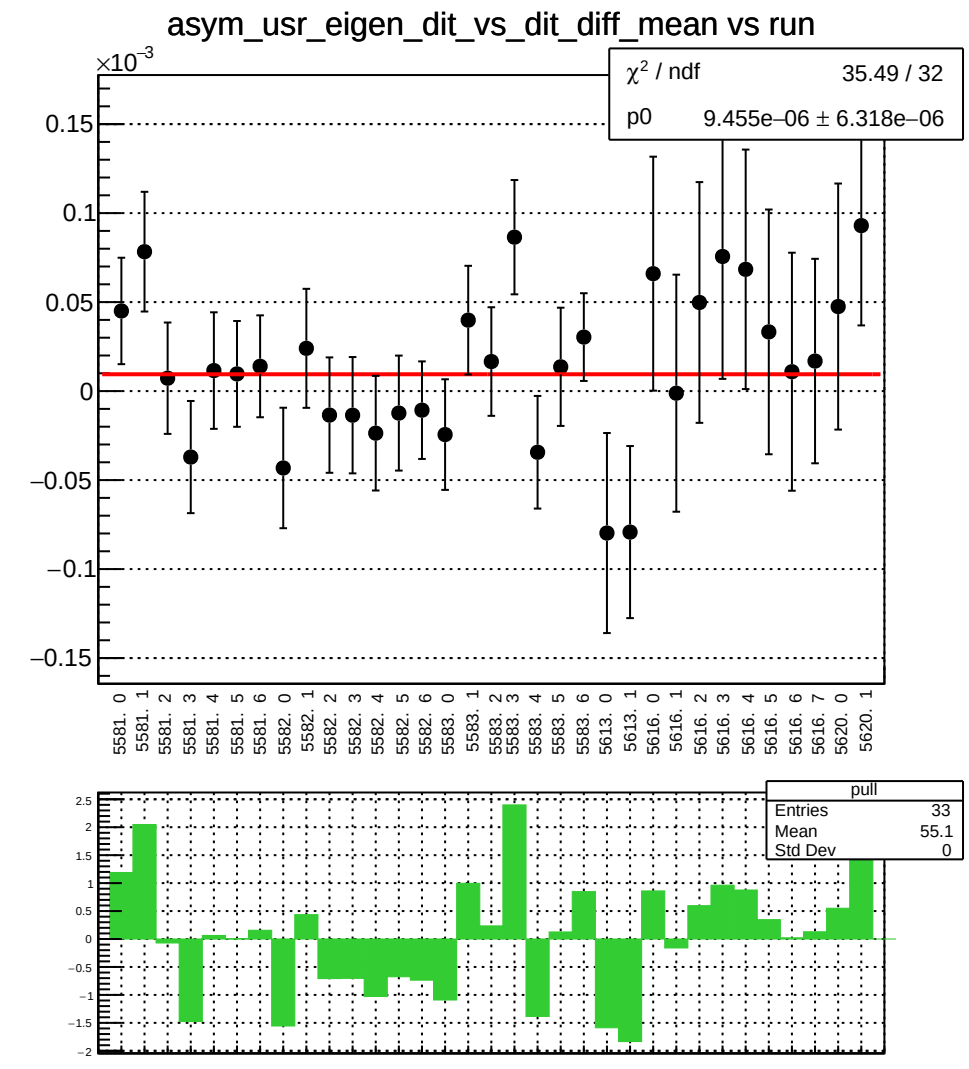

pull1D
Entries 33
Mean −0.1718
Std Dev 0.921
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

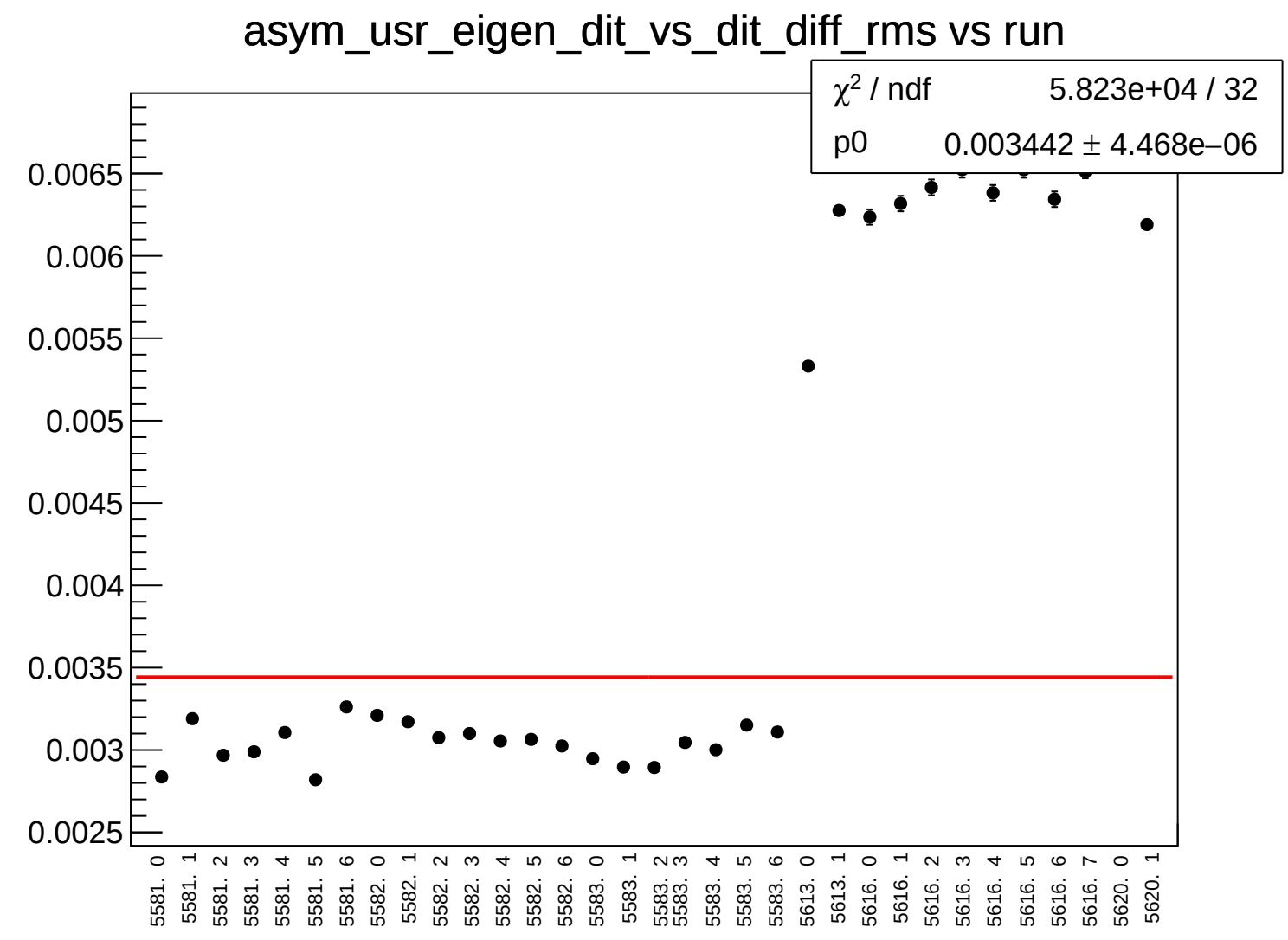

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.289e+04 / 32
p0 65.12 ± 0.08633
160
140
120
100
80
60
40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

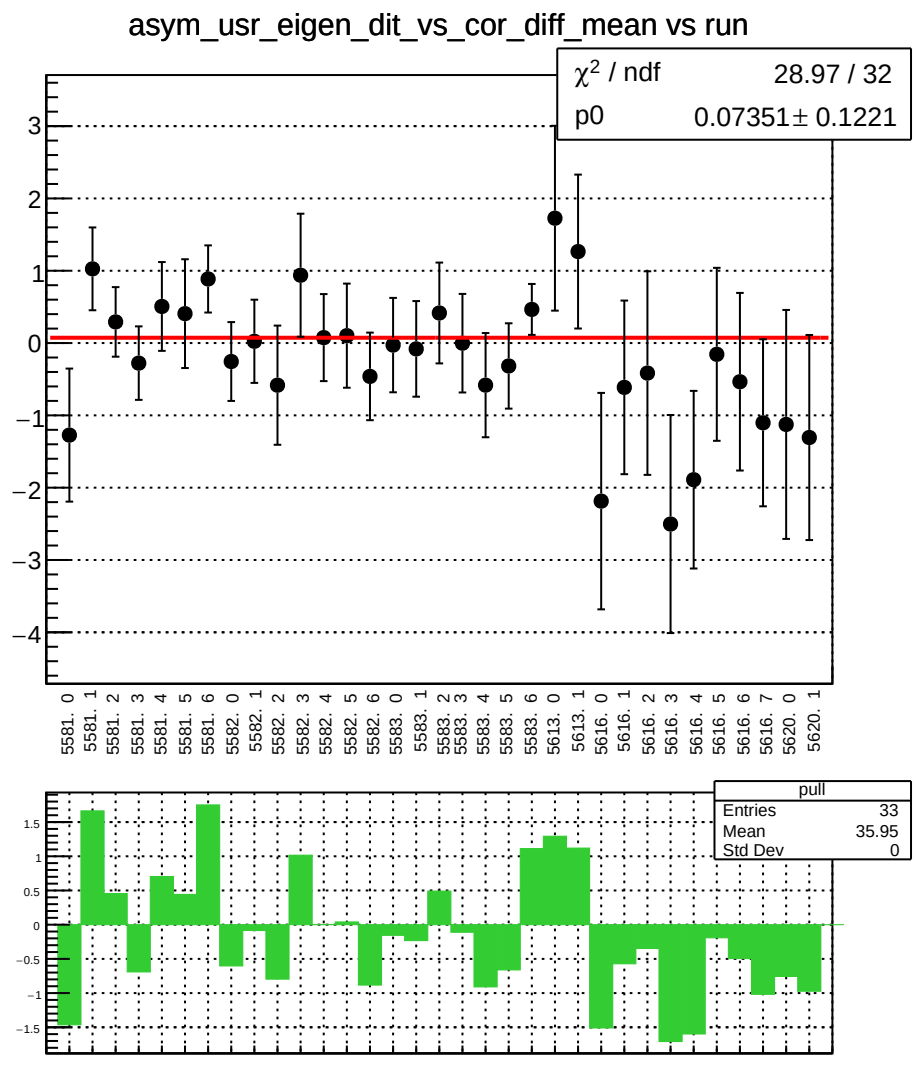

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 29.4 / 32
p0 0.1752 ± 0.1541
4
3
2
1
0
−1
−2
−3
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 53.45
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

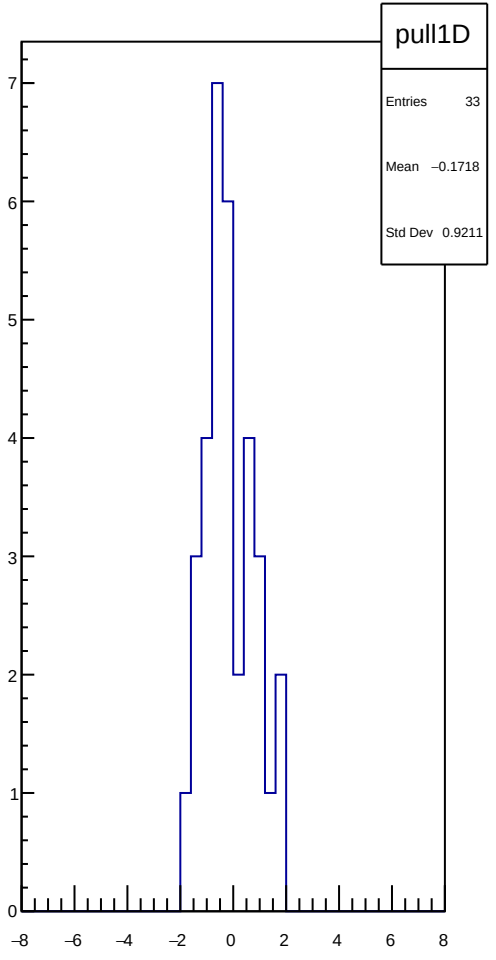

pull1D
Entries 33
Mean −0.09306
Std Dev 0.9394
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

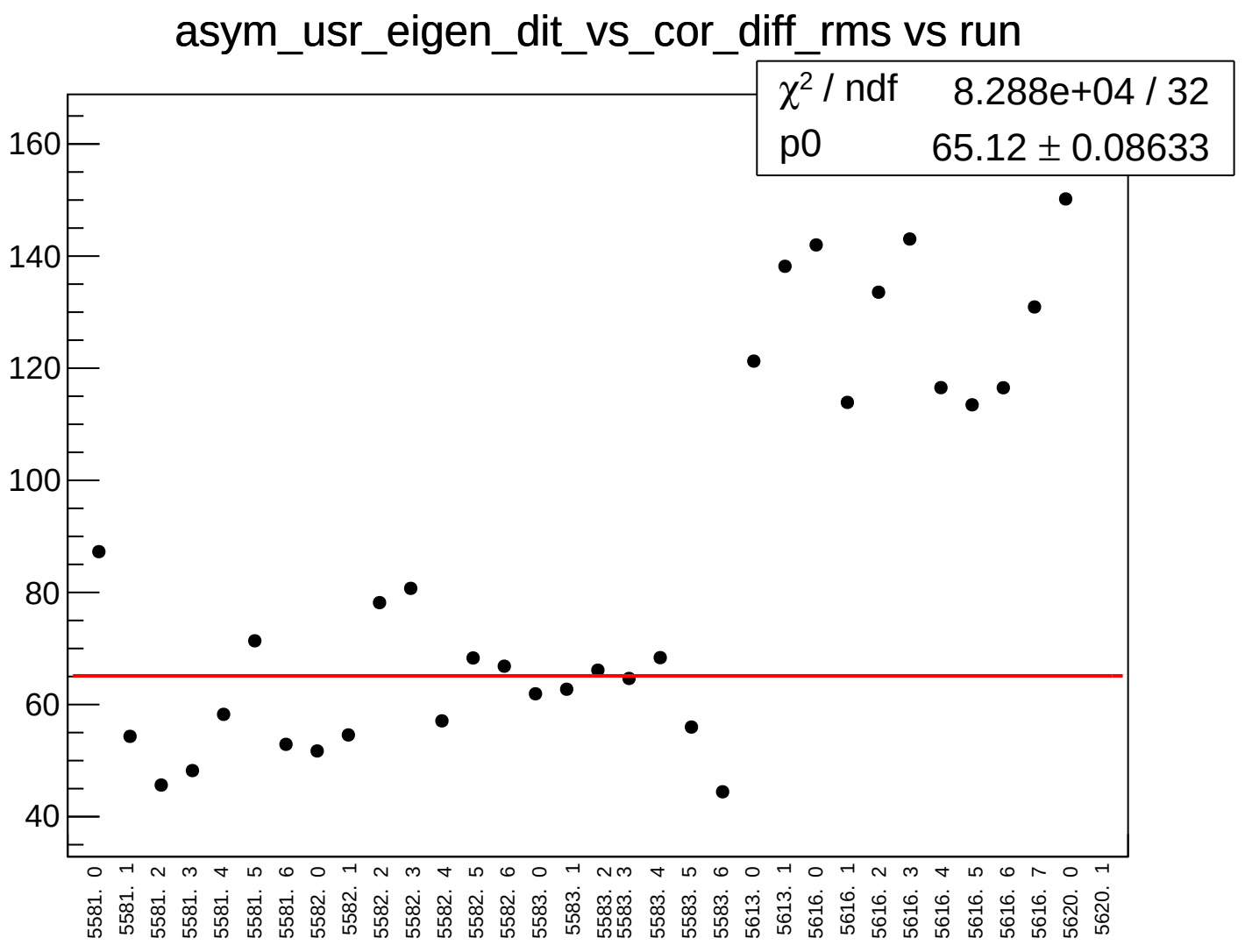

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.405e+04 / 32
p0 83.53 ± 0.1089
180
160
140
120
100
80
60
40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

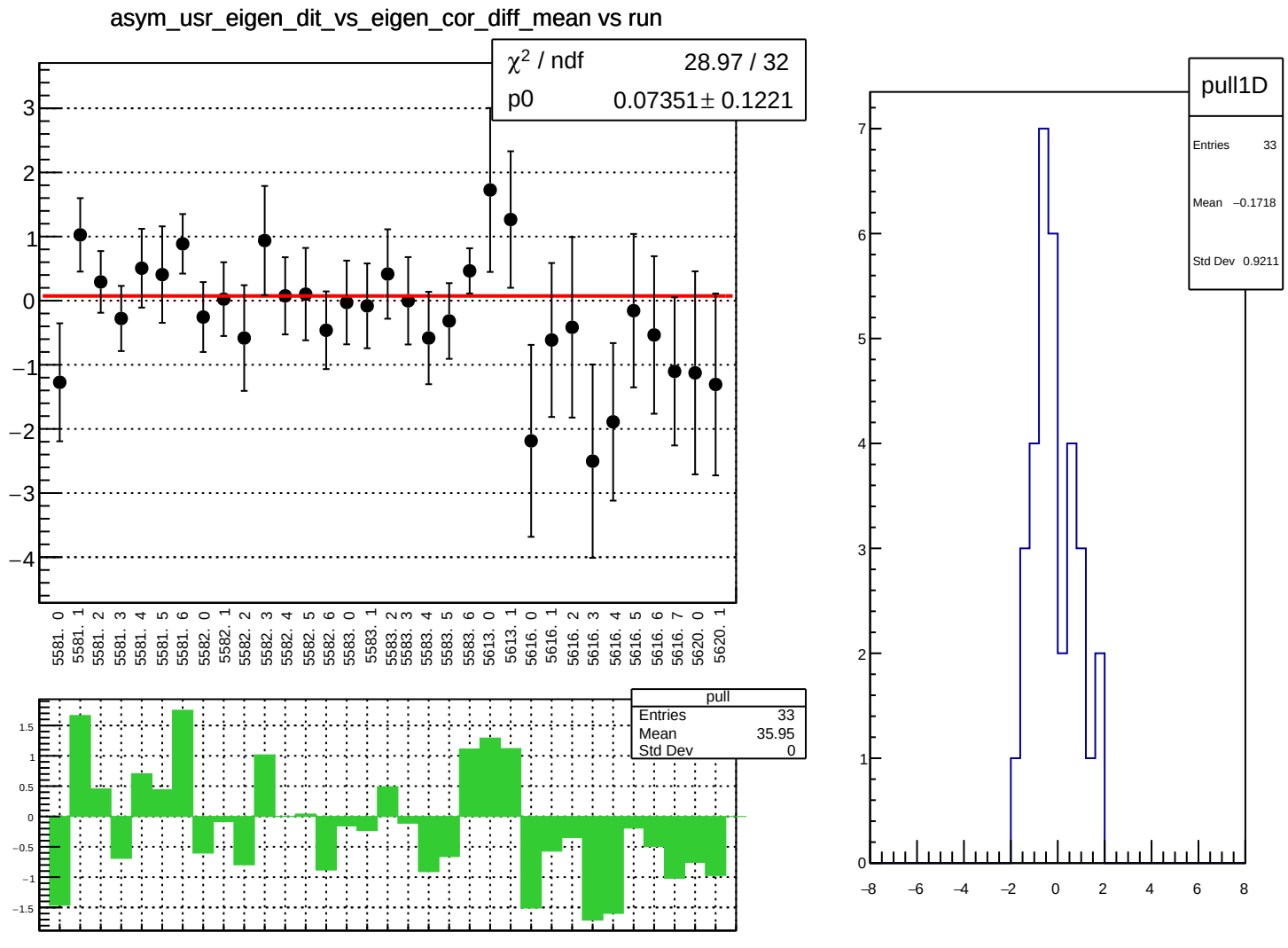

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.49 / 32
p0 9.455e−06 ± 6.318e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 55.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.04013
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

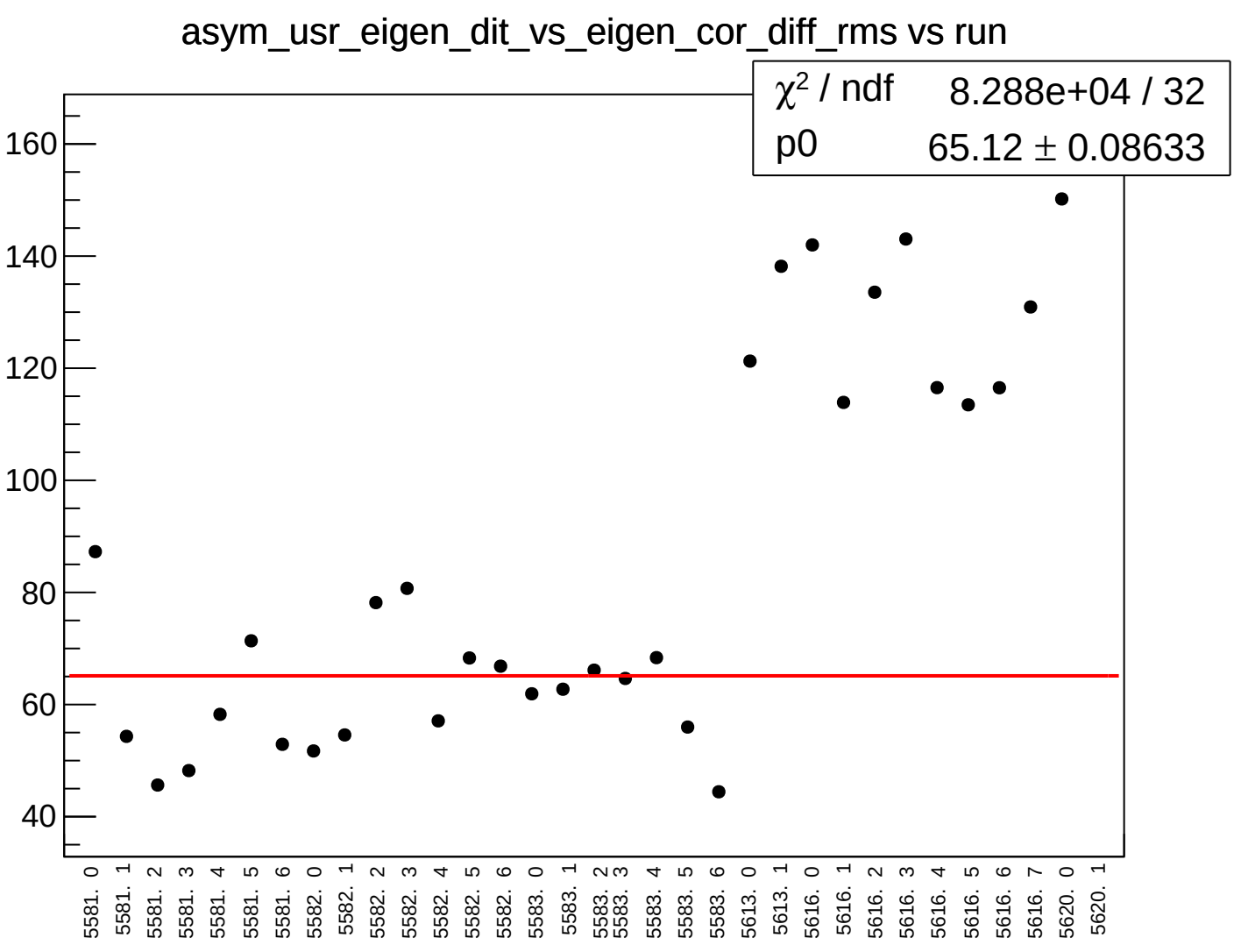

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.823e+04 / 32
p0 0.003442 ± 4.468e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

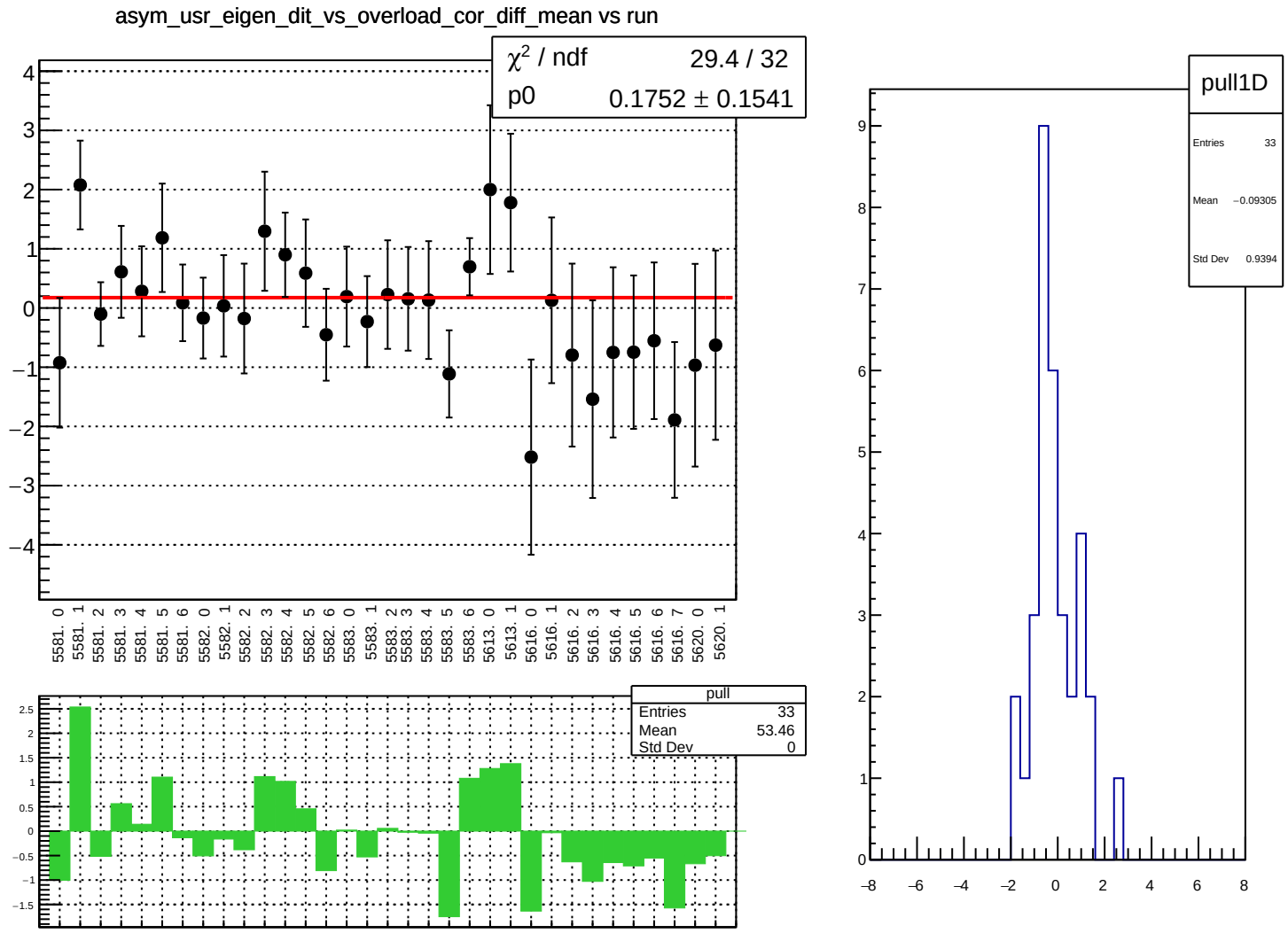

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 28.97 / 32
p0 0.07351 ± 0.1221
3
2
1
0
−1
−2
−3
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

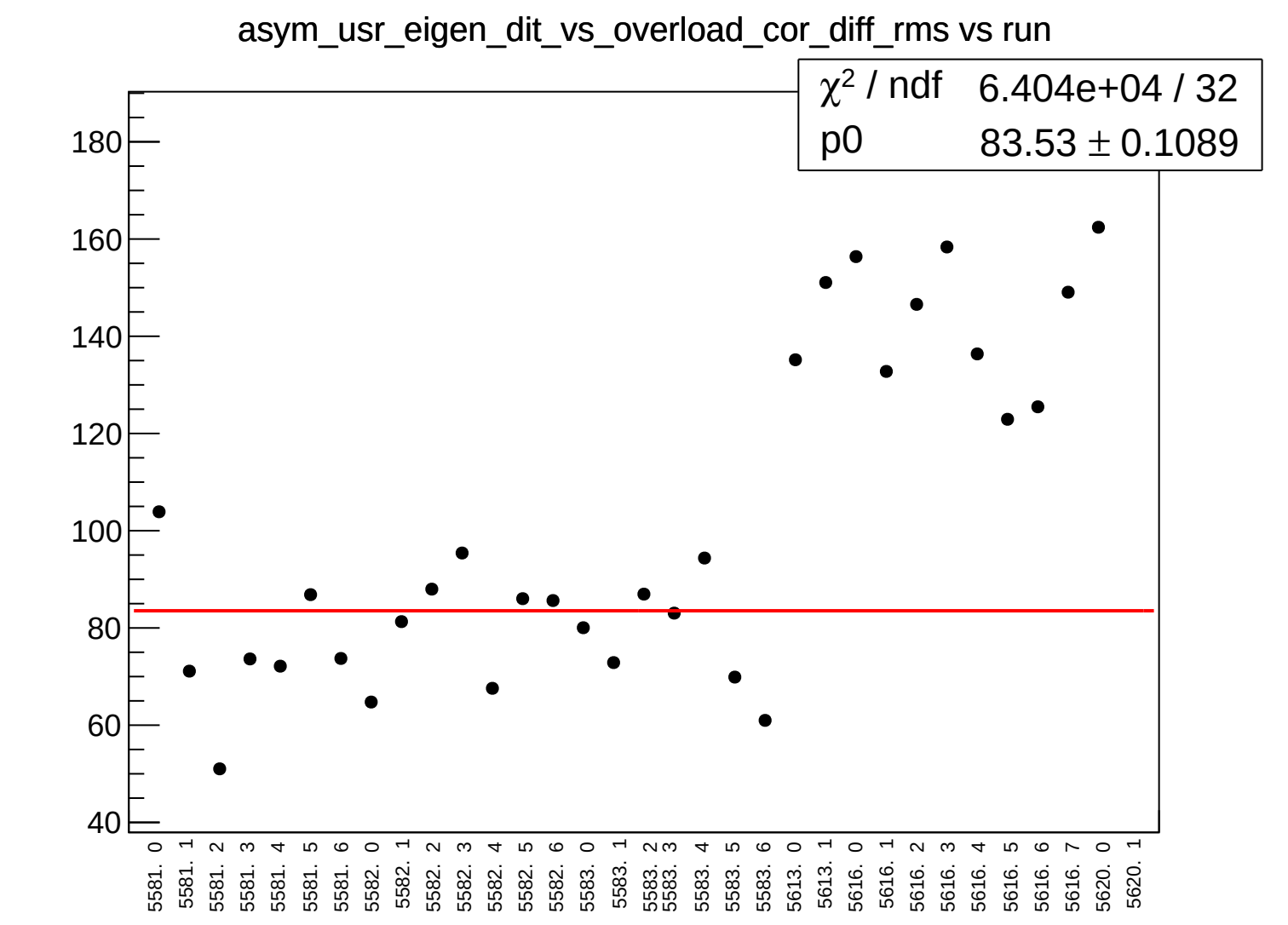

pull1D
Entries 33
Mean −0.1718
Std Dev 0.9211
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

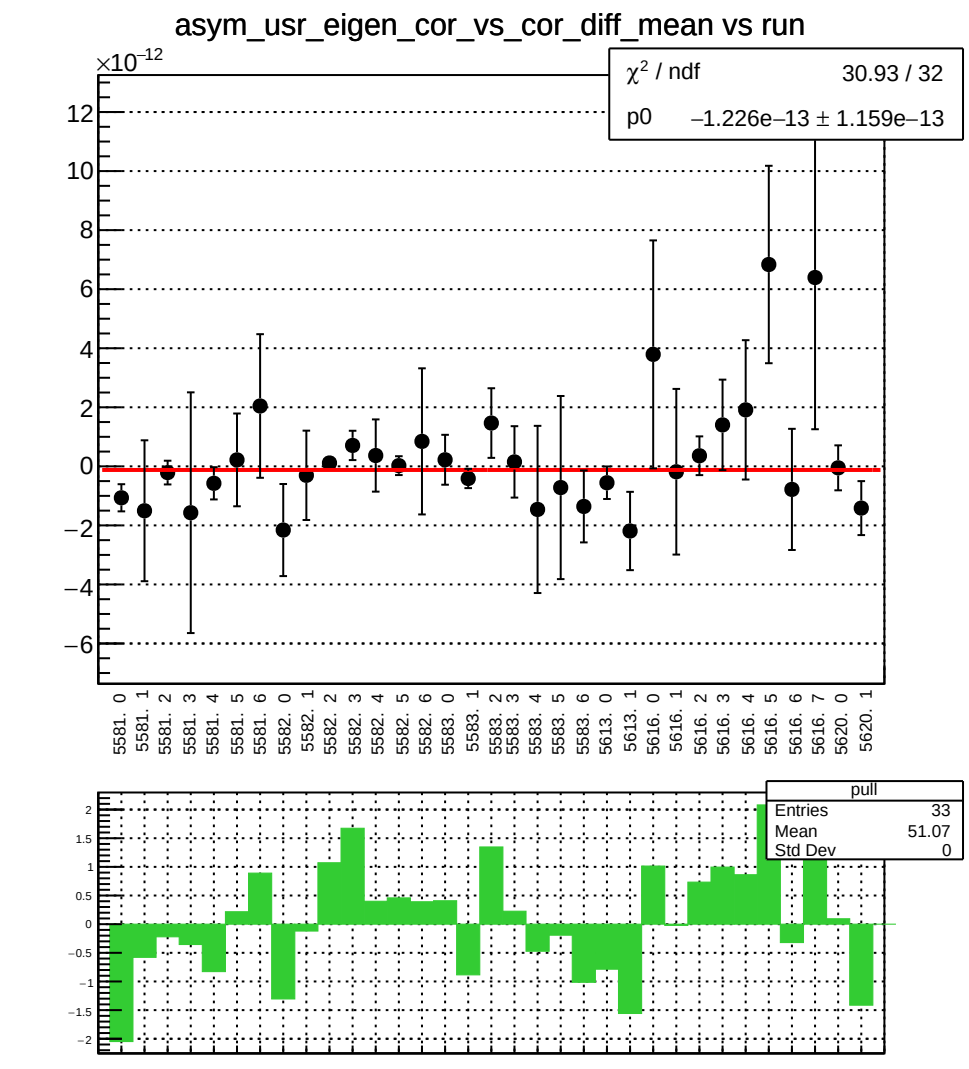

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.288e+04 / 32
p0 65.12 ± 0.08633
160
140
120
100
80
60
40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

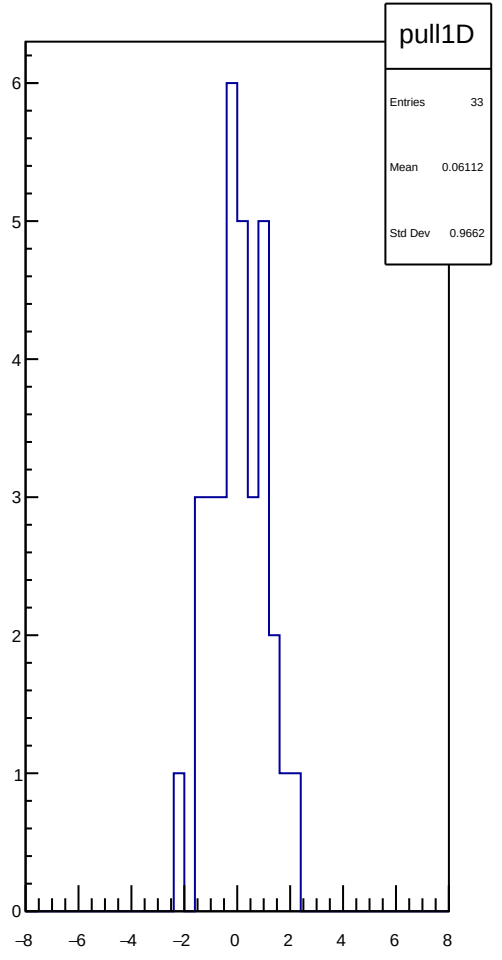

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.97 / 32
p0 0.07351 ± 0.1221
pull
Entries 33
Mean 35.95
Std Dev 0
pull1D
Entries 33
Mean −0.1718
Std Dev 0.9211

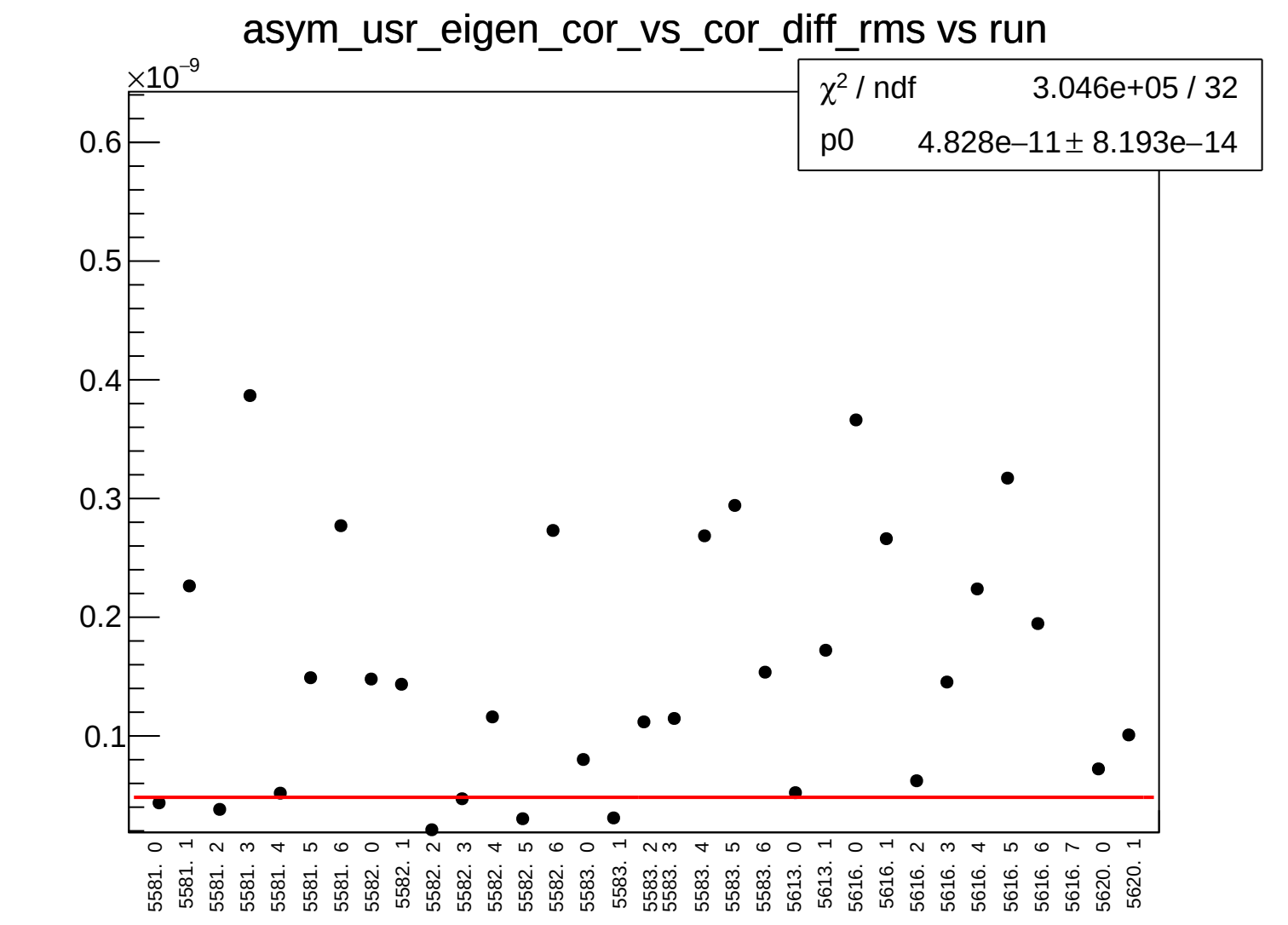

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.288e+04 / 32
p0 65.12 ± 0.08633
160
140
120
100
80
60
40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

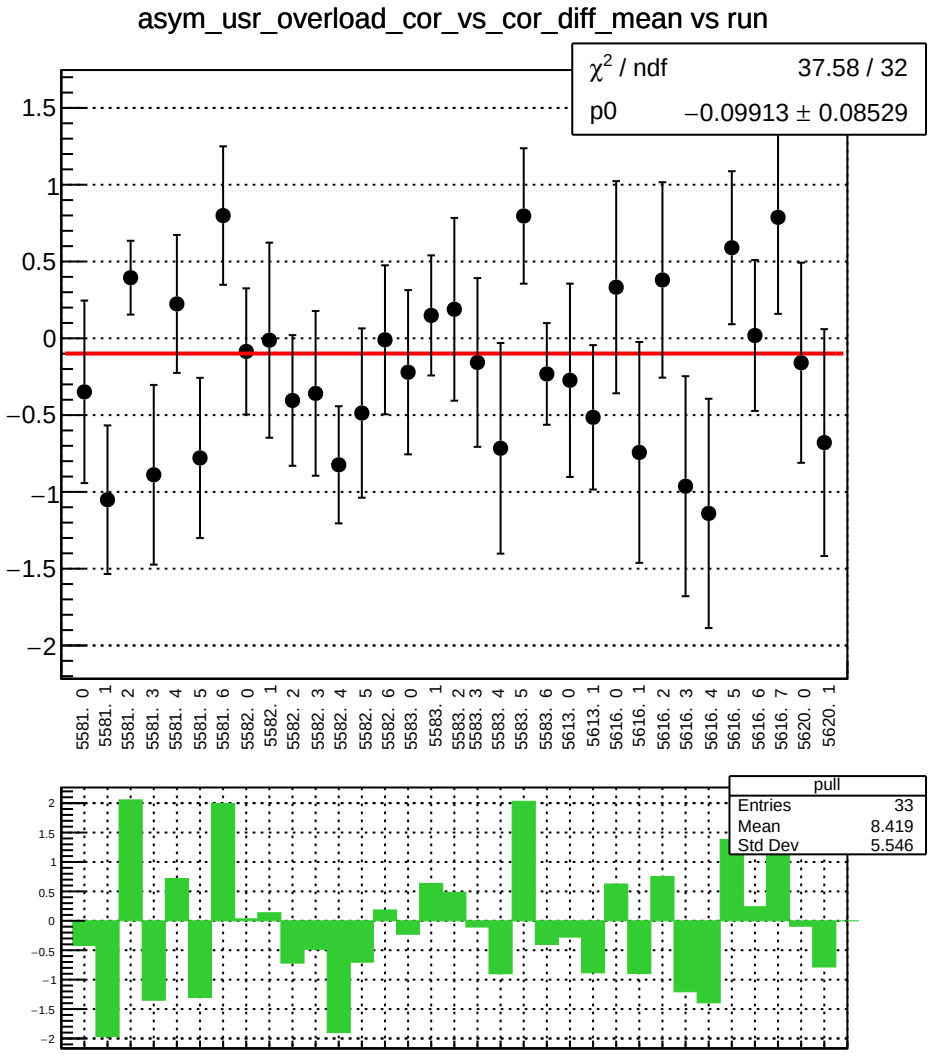

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 29.4 / 32
p0 0.1752 ± 0.1541
pull
Entries 33
Mean 53.46
Std Dev 0
pull1D
Entries 33
Mean −0.09305
Std Dev 0.9394

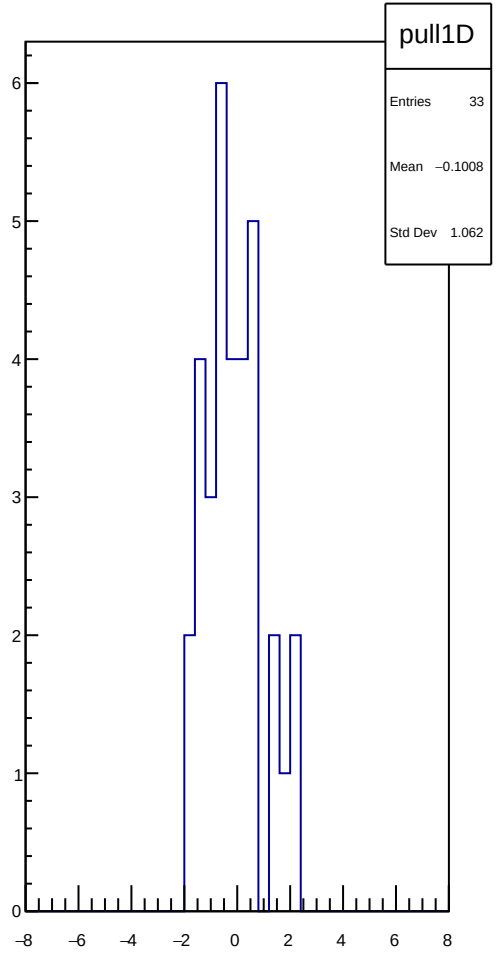

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.404e+04 / 32
p0 83.53 ± 0.1089
180
160
140
120
100
80
60
40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

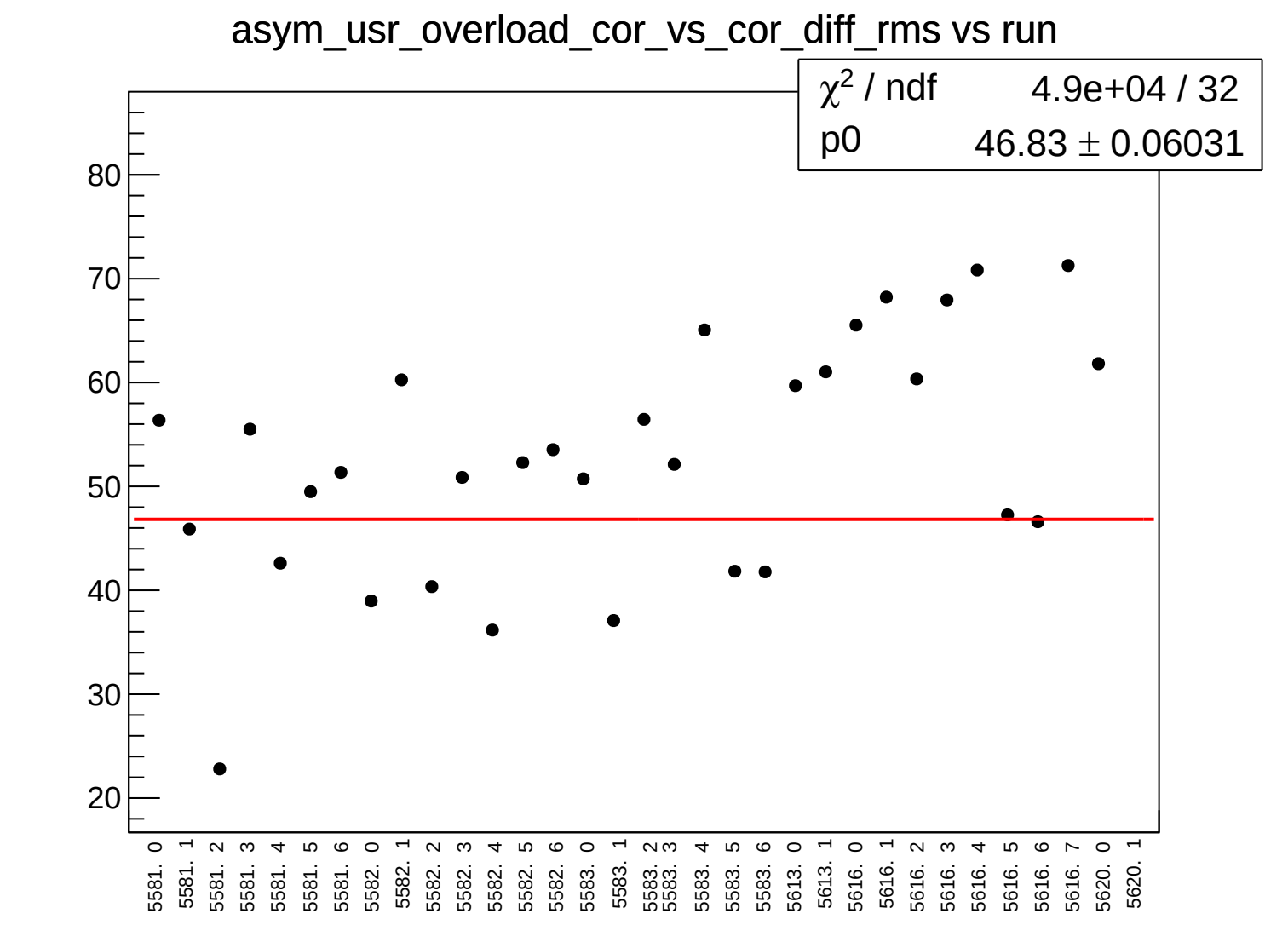

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 30.93 / 32
p0 −1.226e−13 ± 1.159e−13
12
10
8
6
4
2
0
−2
−4
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 51.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

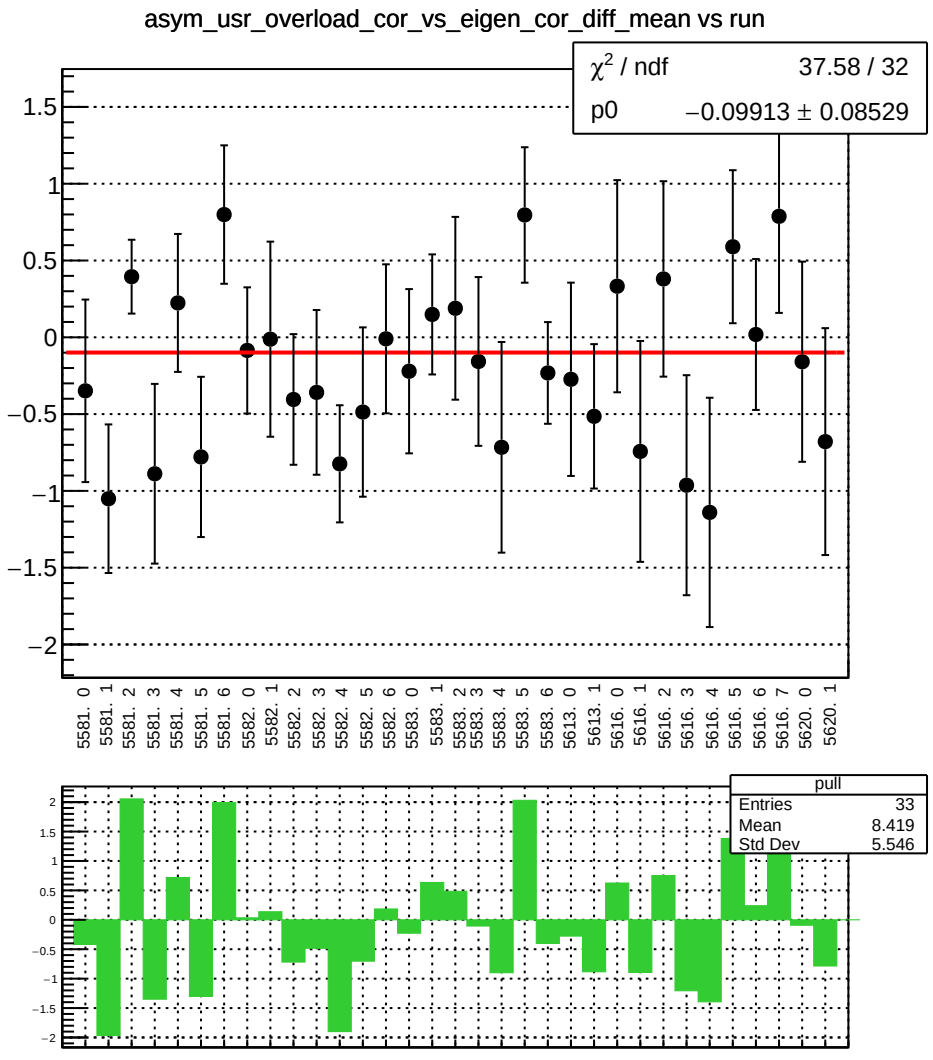

pull1D
Entries 33
Mean 0.06112
Std Dev 0.9662
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

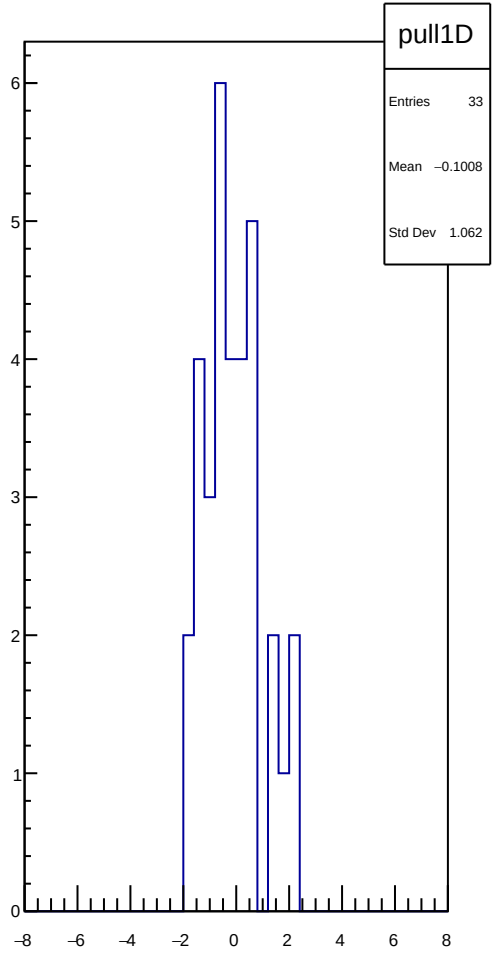

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.046e+05 / 32
p0 4.828e−11 ± 8.193e−14
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

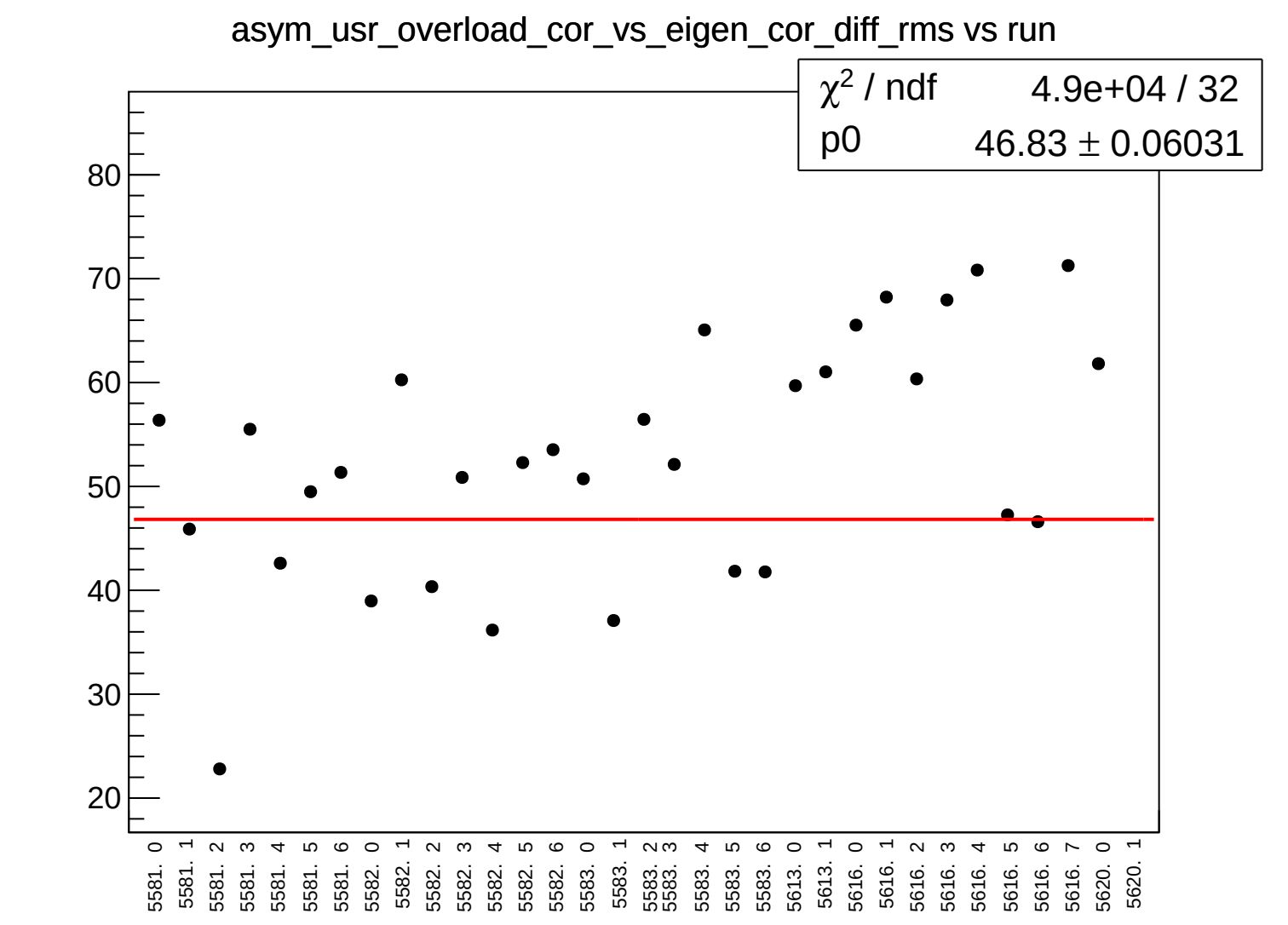

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 37.58 / 32
p0 −0.09913 ± 0.08529
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 8.419
Std Dev 5.546
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

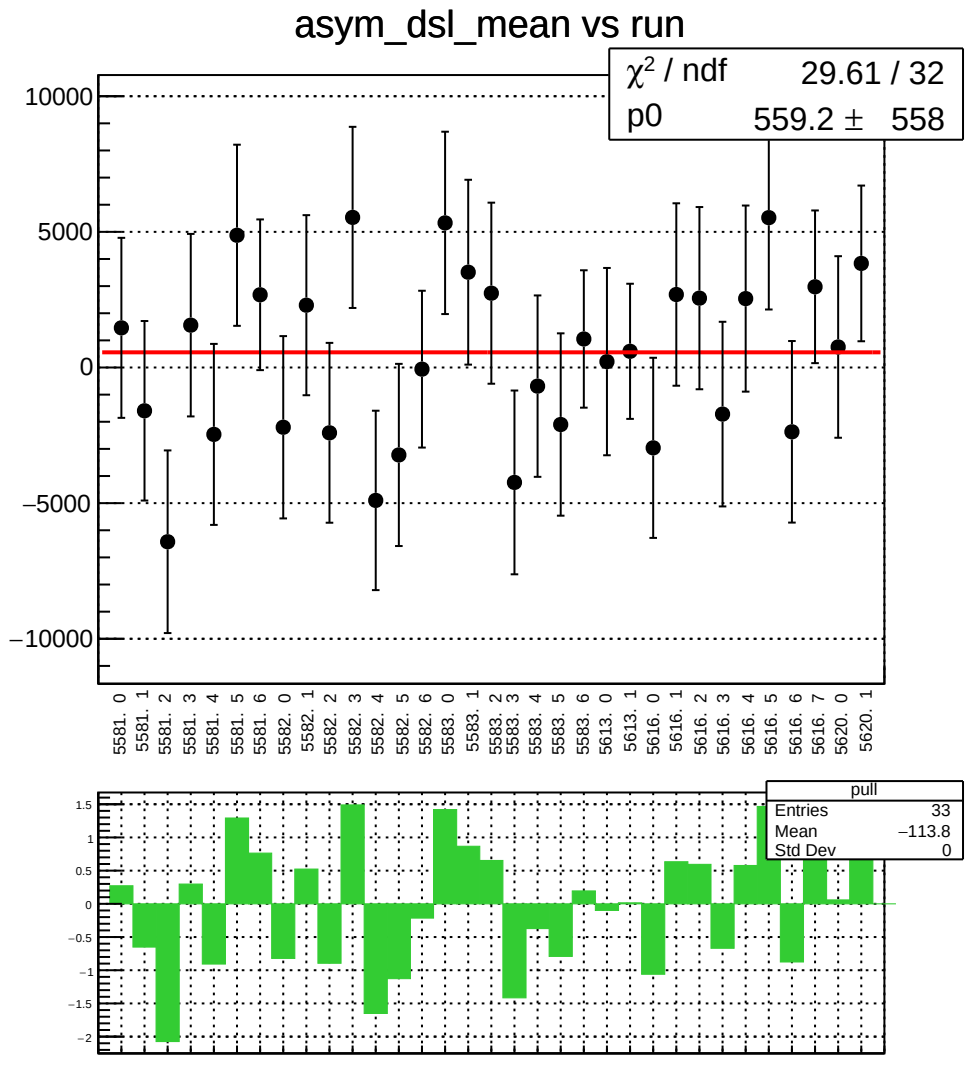

pull1D
Entries 33
Mean −0.1008
Std Dev 1.062
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

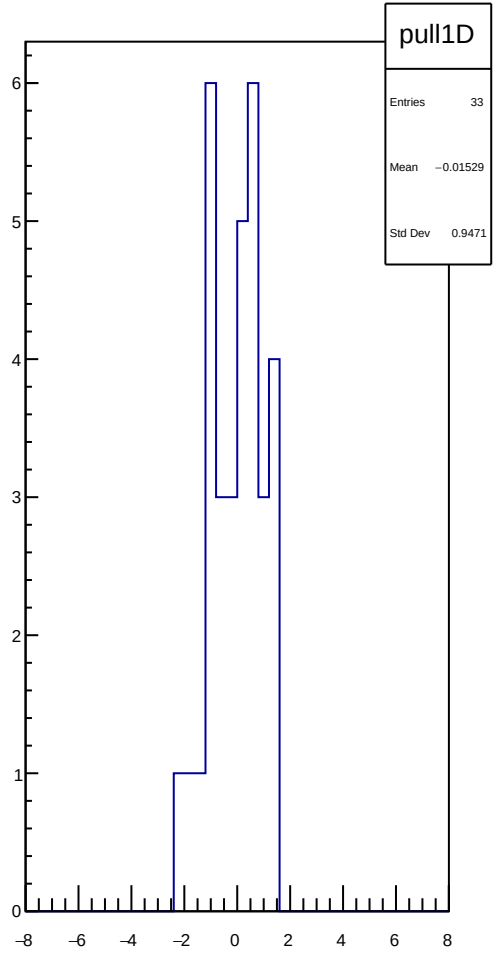

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 4.9e+04 / 32
p0 46.83 ± 0.06031
80
70
60
50
40
30
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

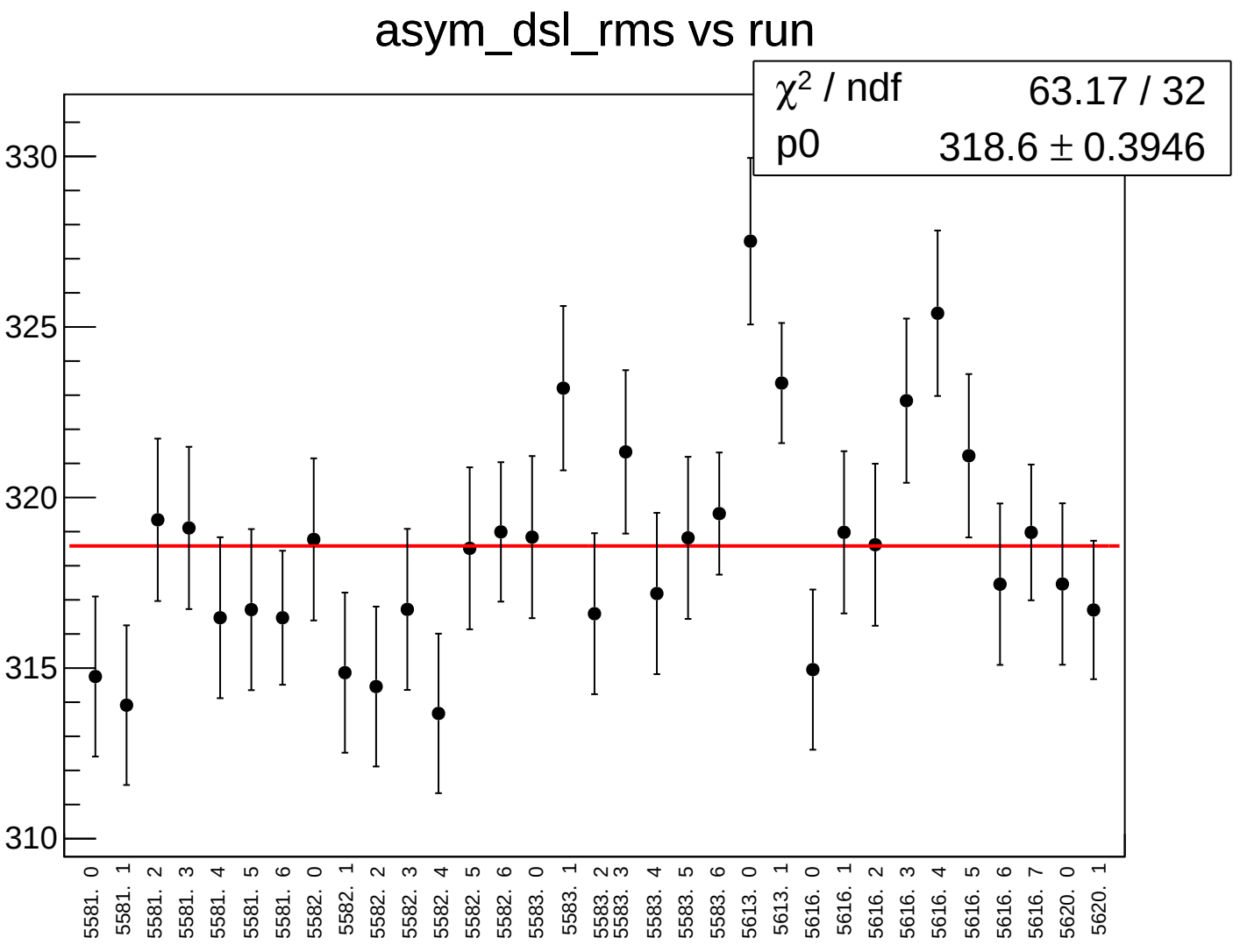

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.58 / 32
p0 −0.09913 ± 0.08529
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 8.419
Std Dev 5.546
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

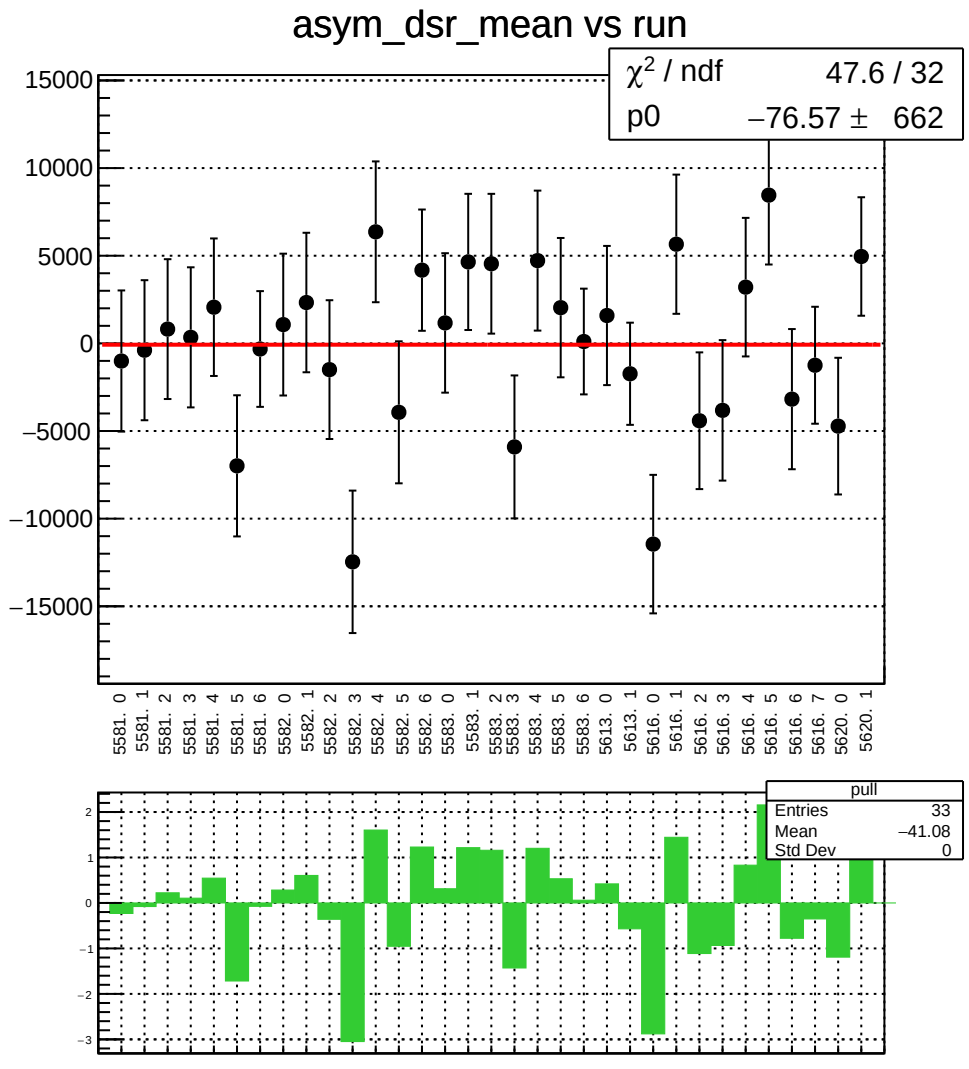

pull1D
Entries 33
Mean −0.1008
Std Dev 1.062
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

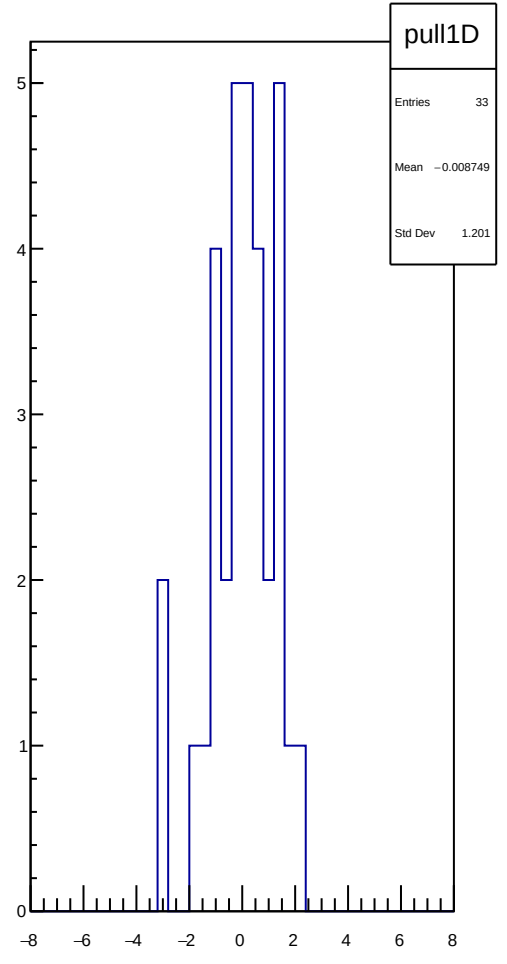

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.9e+04 / 32
p0 46.83 ± 0.06031
80
70
60
50
40
30
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

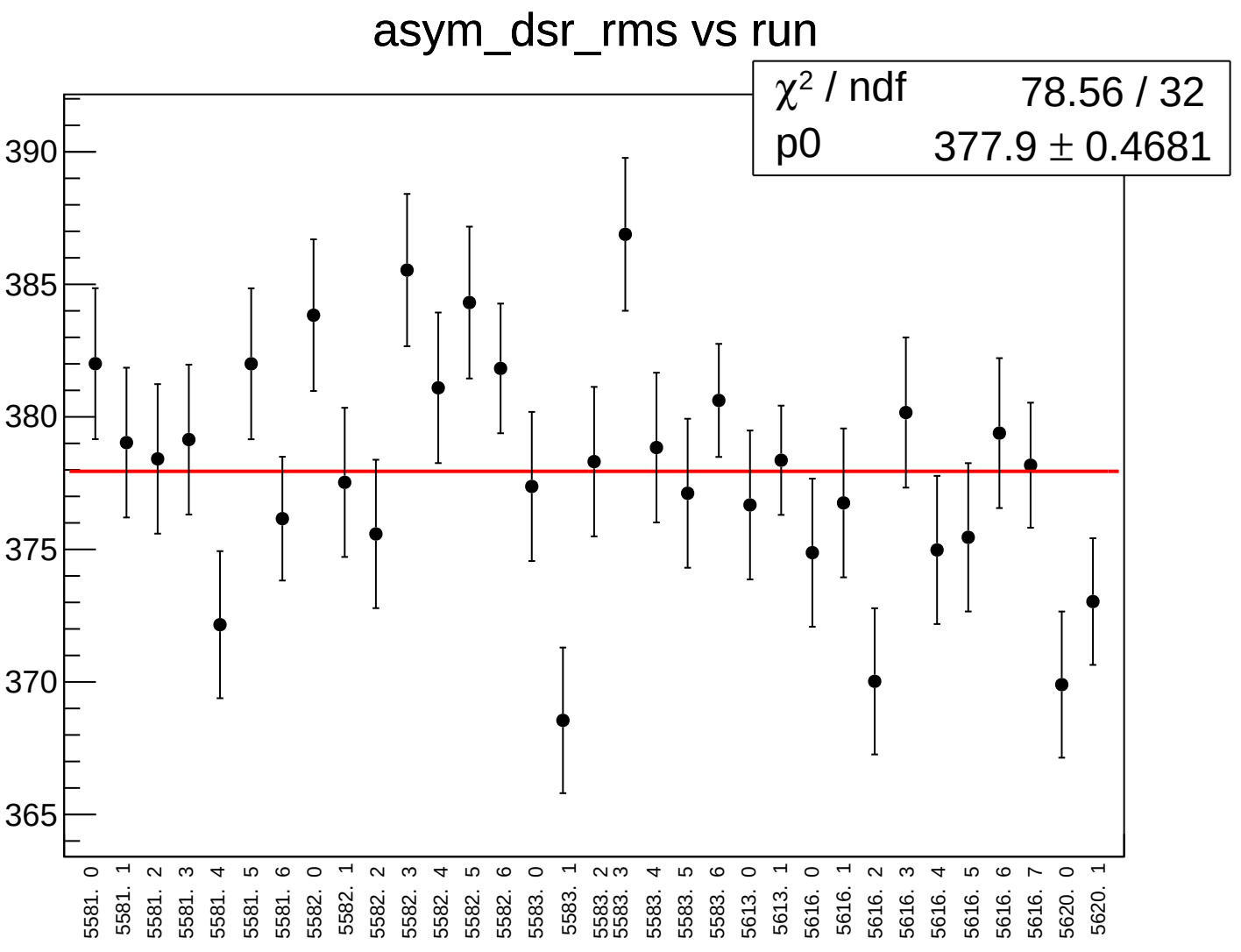

asym_dsl_mean vs run
χ² / ndf 29.61 / 32
p0 559.2 ± 558
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −113.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

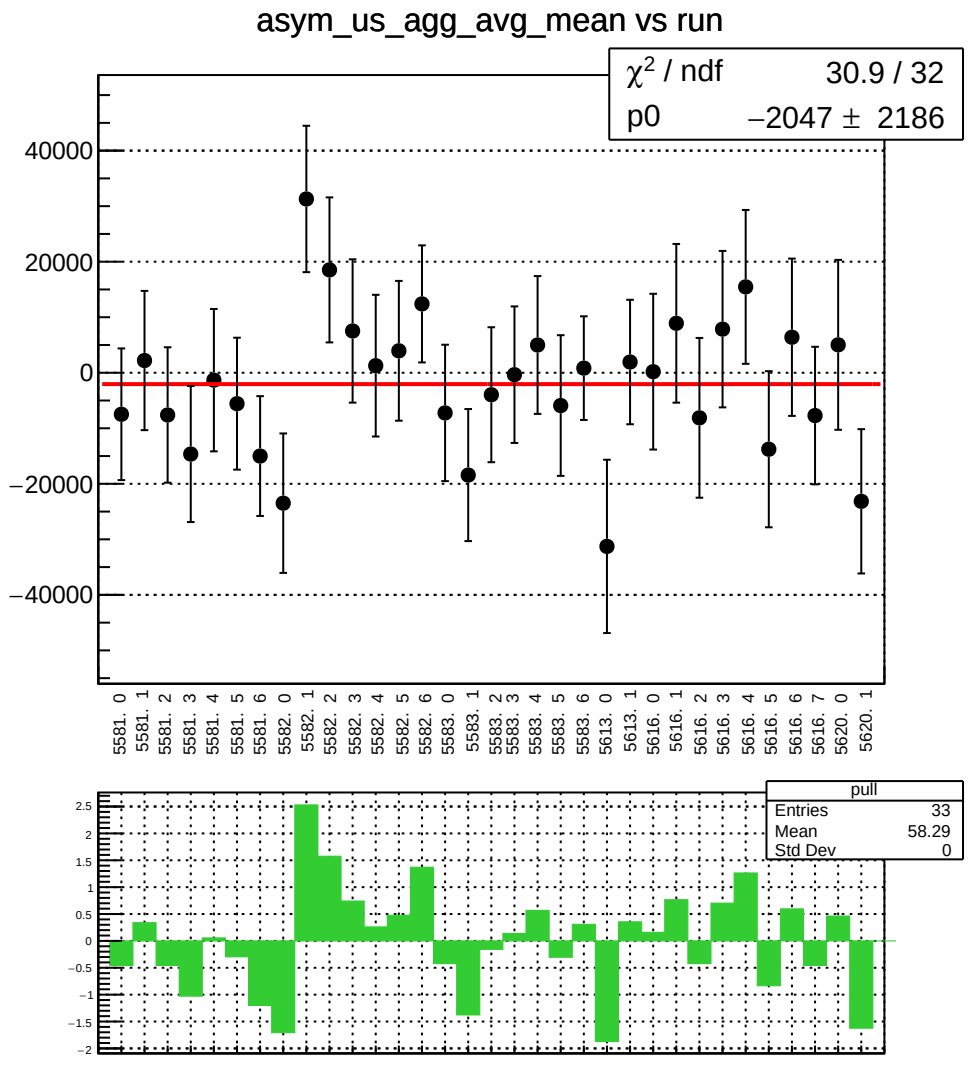

pull1D
Entries 33
Mean −0.01529
Std Dev 0.9471
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

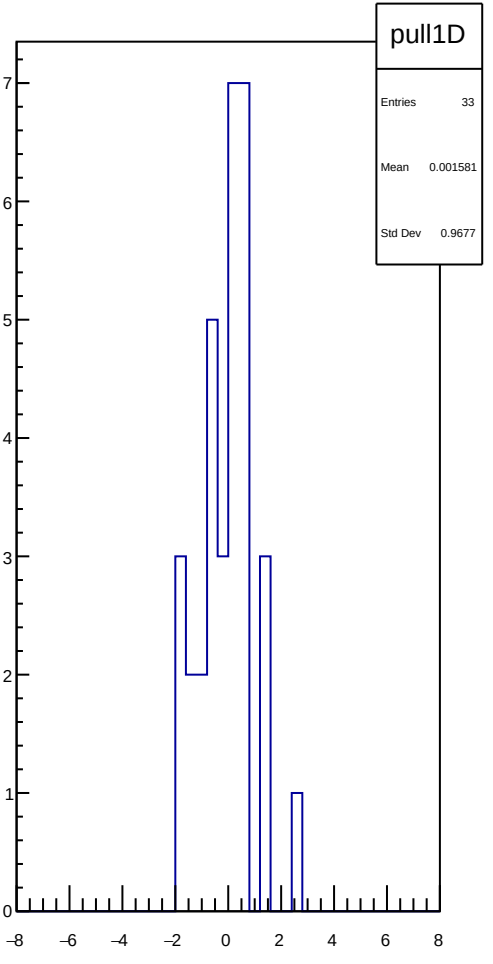

asym_dsl_rms vs run
χ² / ndf 63.17 / 32
p0 318.6 ± 0.3946
330
325
320
315
310
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

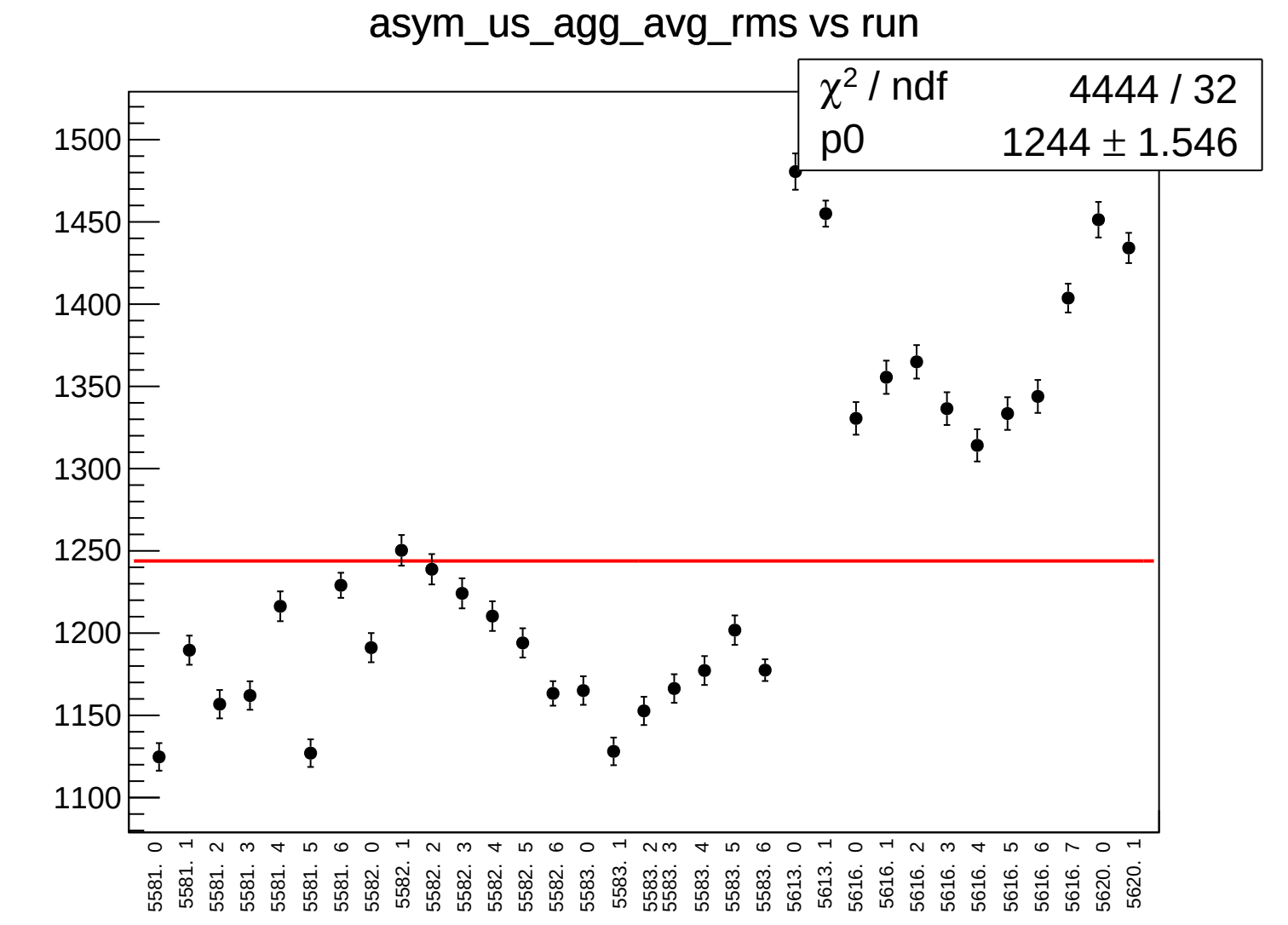

asym_dsr_mean vs run
χ² / ndf 47.6 / 32
p0 −76.57 ± 662
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −41.08
Std Dev 0
2
1
0
−1
−2
−3

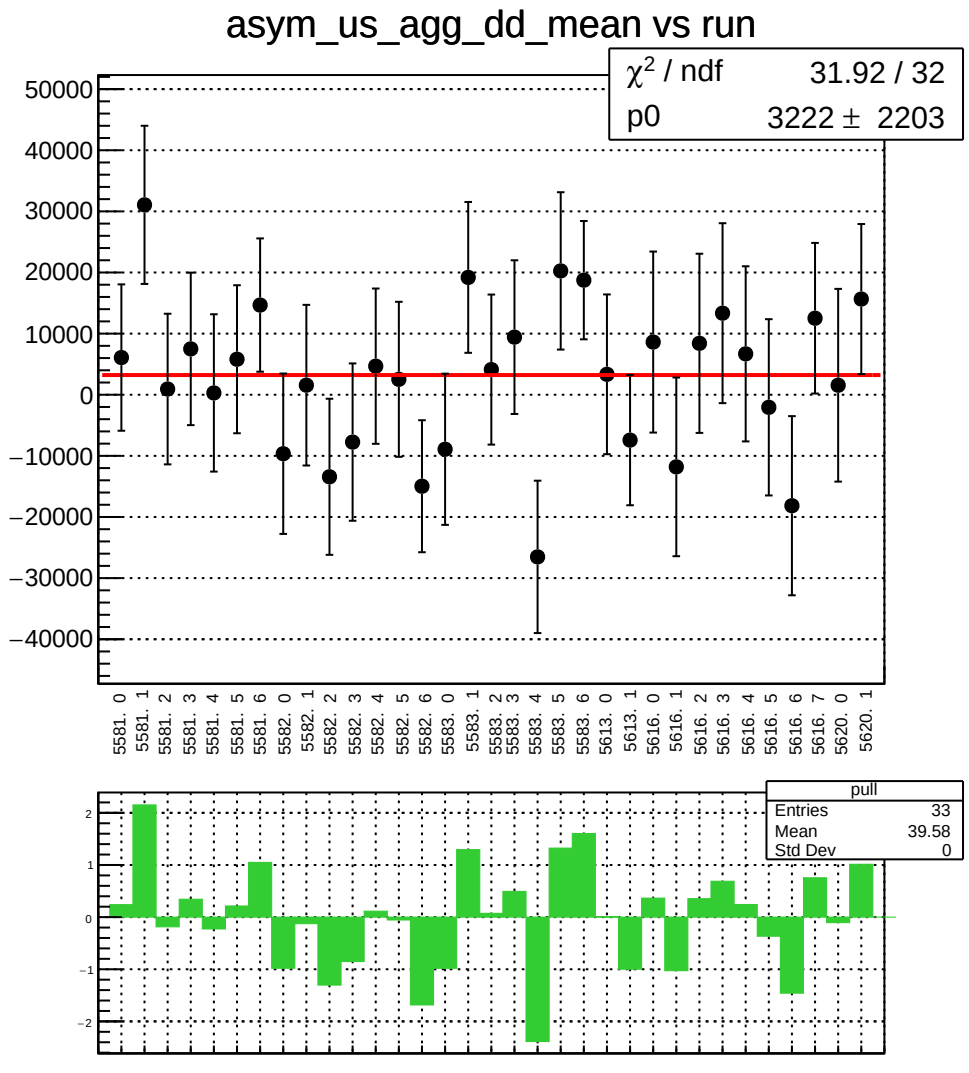

pull1D
Entries 33
Mean −0.008749
Std Dev 1.201
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

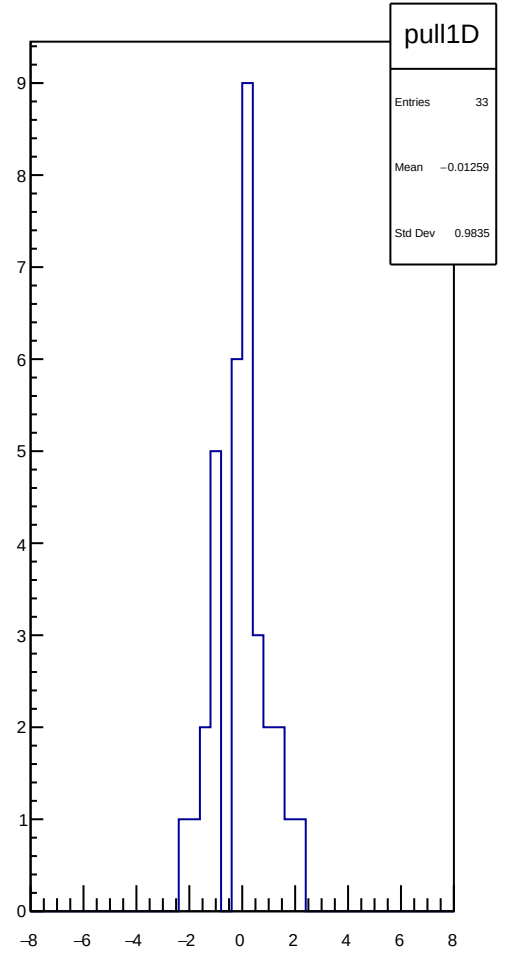

asym_dsr_rms vs run
χ² / ndf 78.56 / 32
p0 377.9 ± 0.4681
390
385
380
375
370
365
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

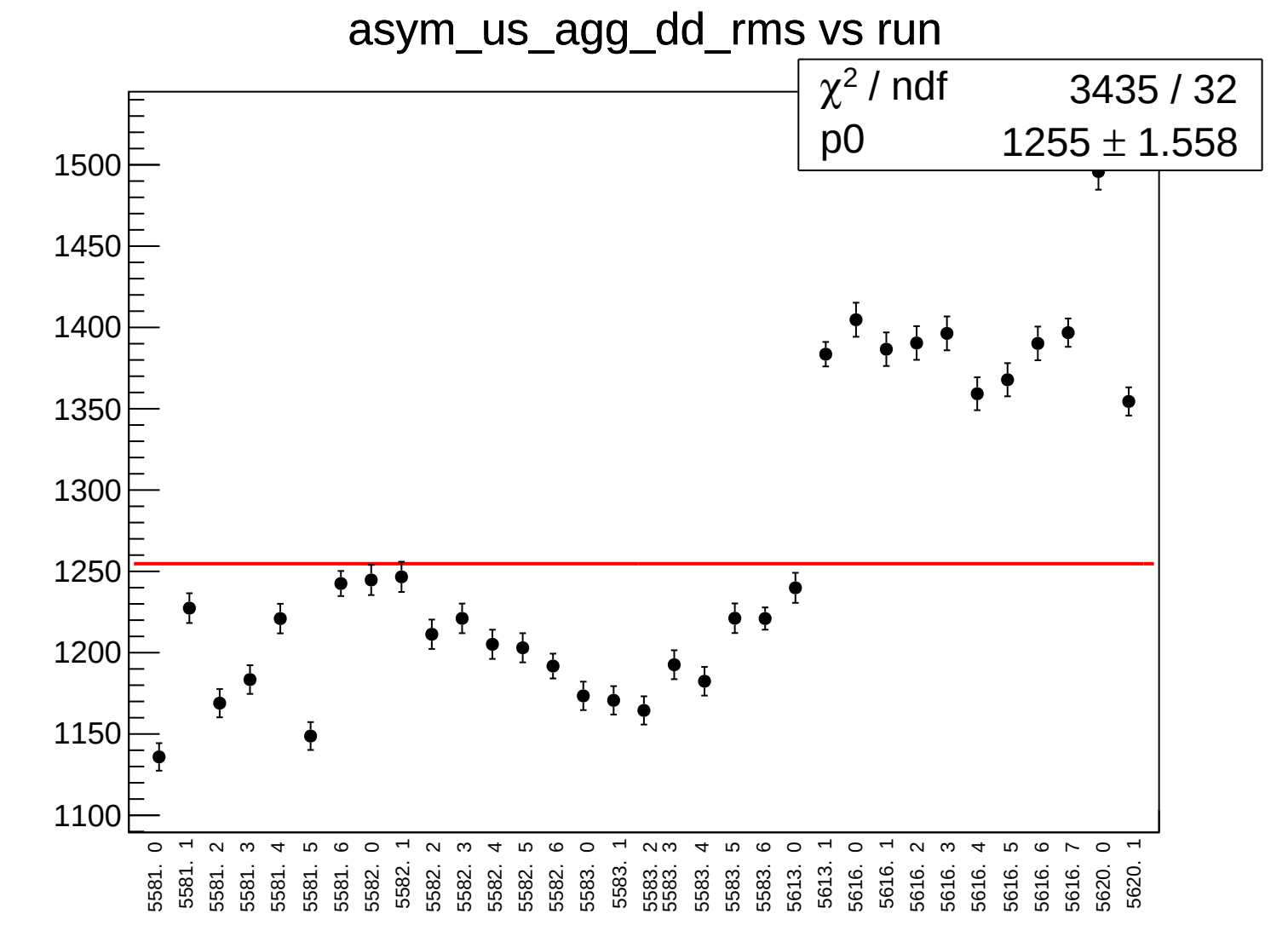

asym_us_agg_avg_mean vs run
χ² / ndf 30.9 / 32
p0 −2047 ± 2186
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 58.29
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

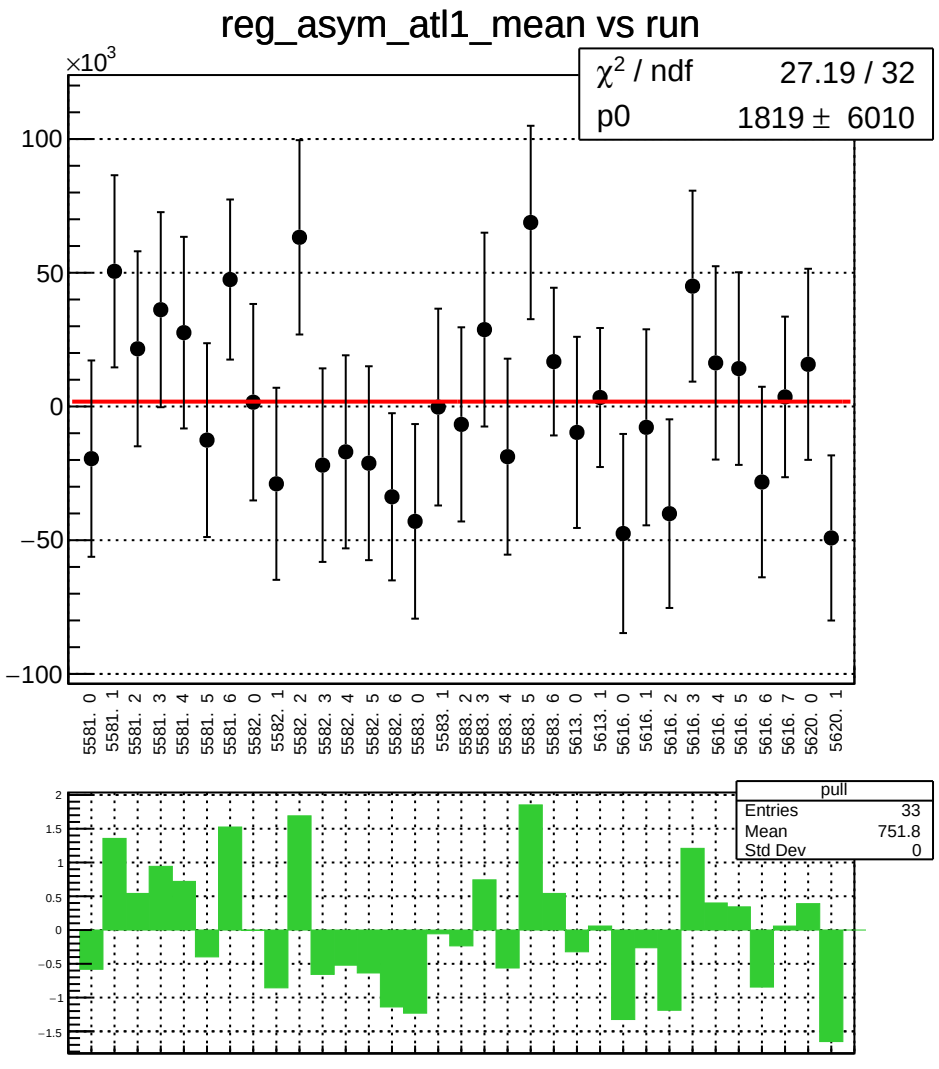

pull1D
Entries 33
Mean 0.001581
Std Dev 0.9677
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

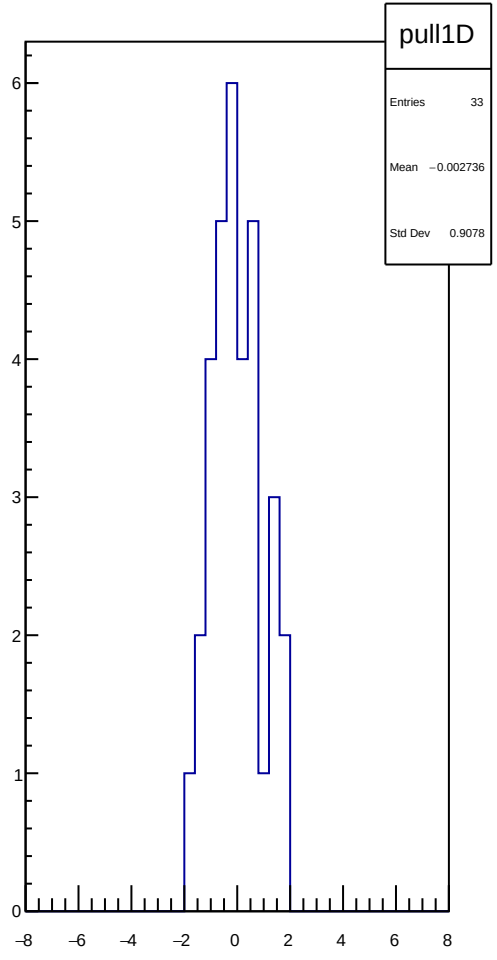

asym_us_agg_avg_rms vs run
χ² / ndf 4444 / 32
p0 1244 ± 1.546
1500
1450
1400
1350
1300
1250
1200
1150
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

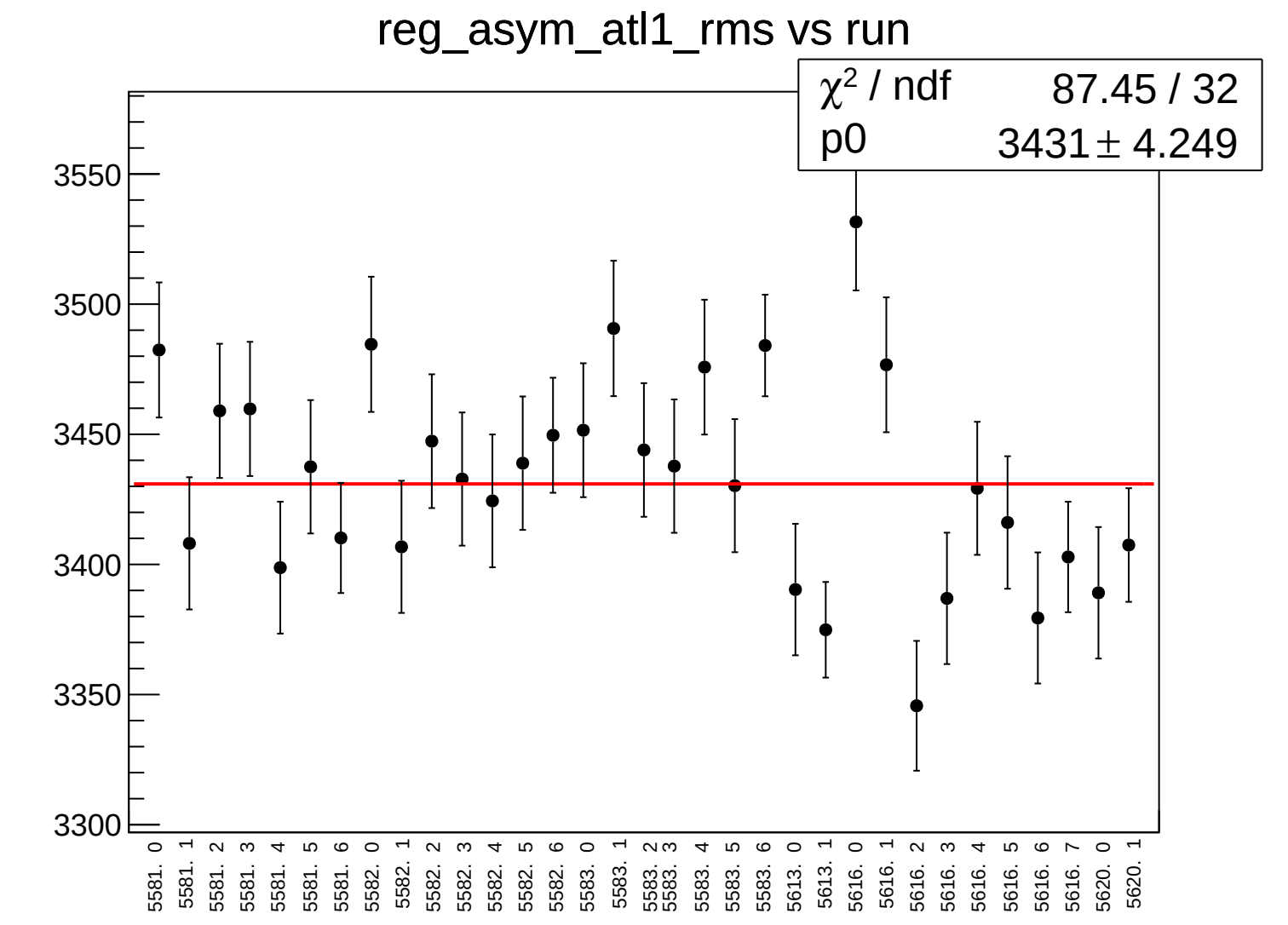

asym_us_agg_dd_mean vs run
χ² / ndf 31.92 / 32
p0 3222 ± 2203
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.58
Std Dev 0
2
1
0
−1
−2

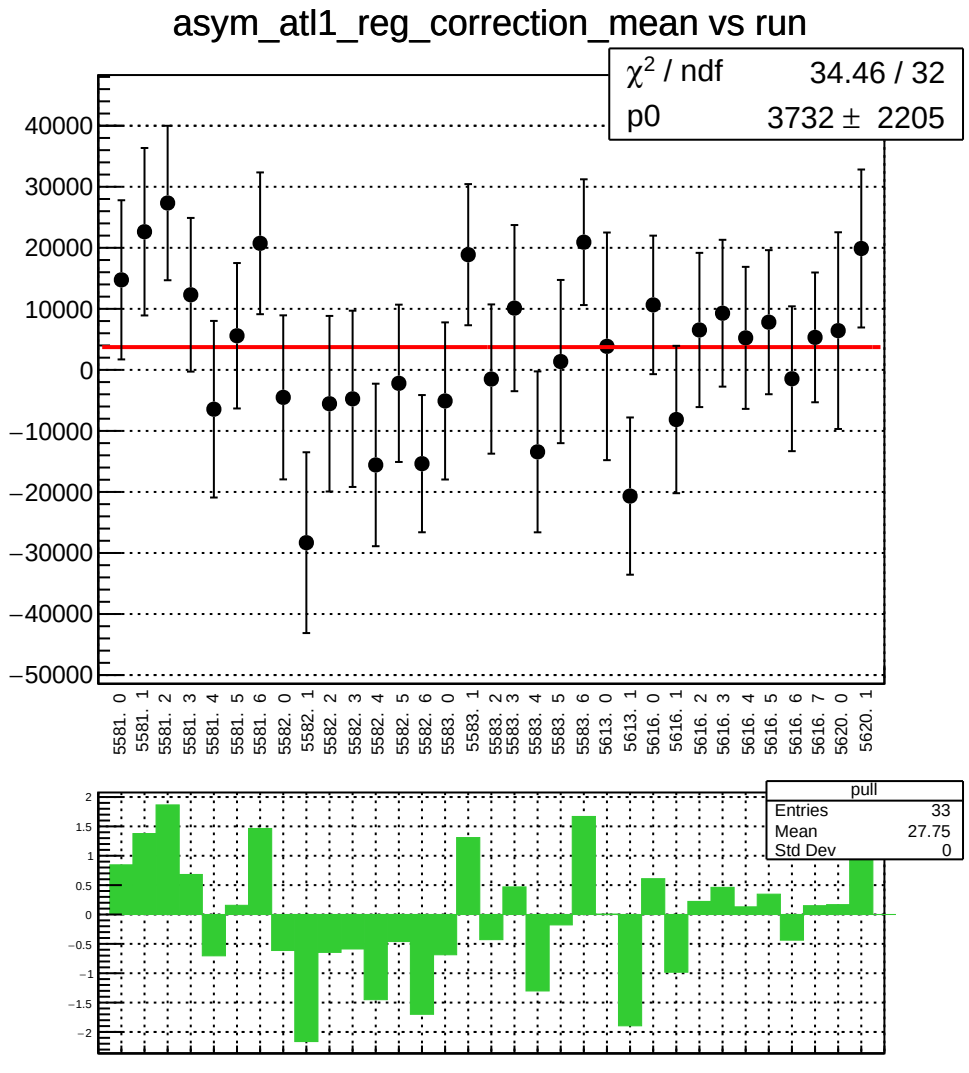

pull1D
Entries 33
Mean −0.01259
Std Dev 0.9835
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

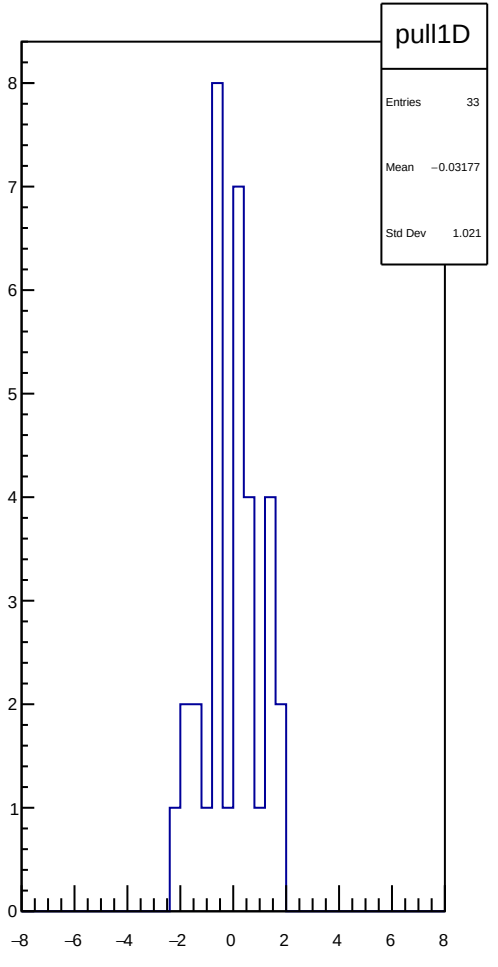

asym_us_agg_dd_rms vs run
χ² / ndf 3435 / 32
p0 1255 ± 1.558
1500
1450
1400
1350
1300
1250
1200
1150
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

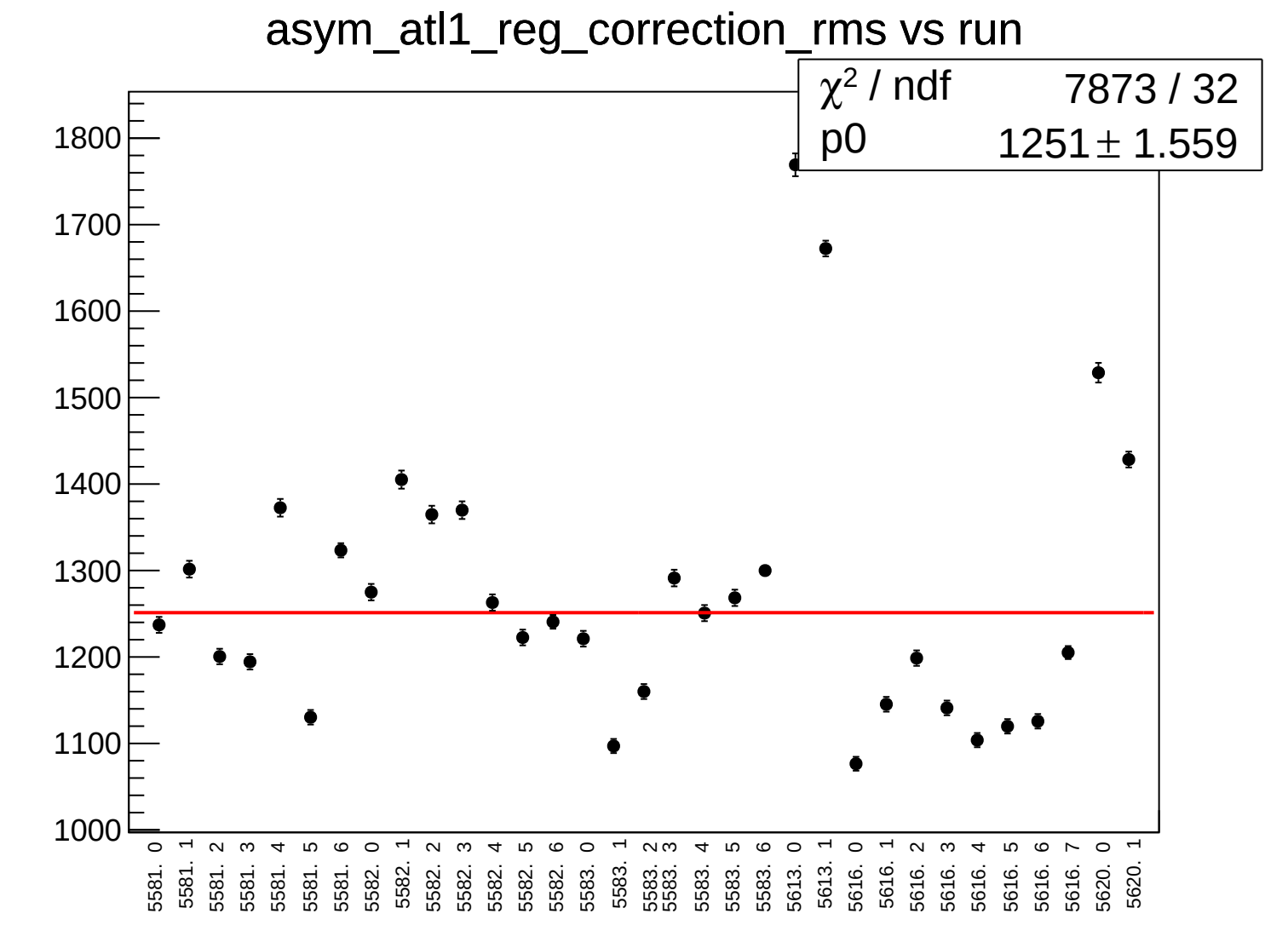

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 27.19 / 32
p0 1819 ± 6010
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 751.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

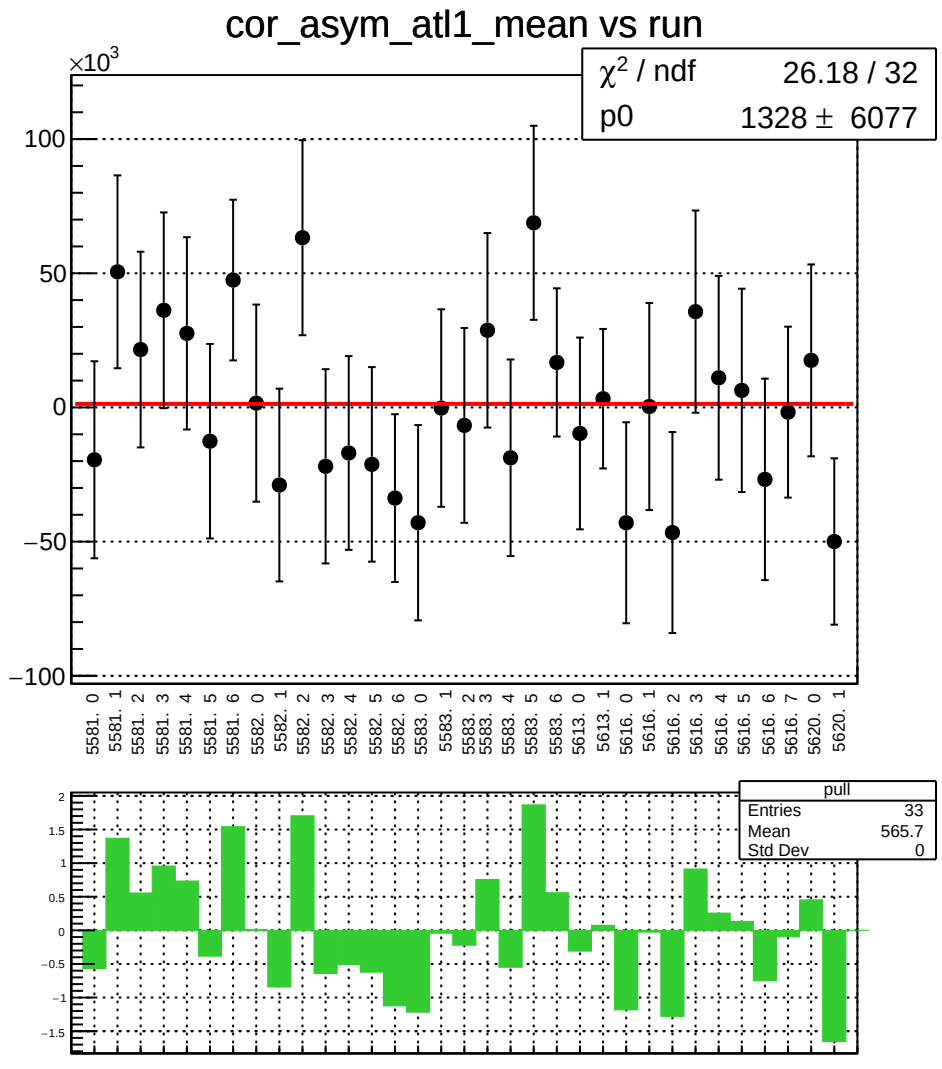

pull1D
Entries 33
Mean −0.002736
Std Dev 0.9078
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

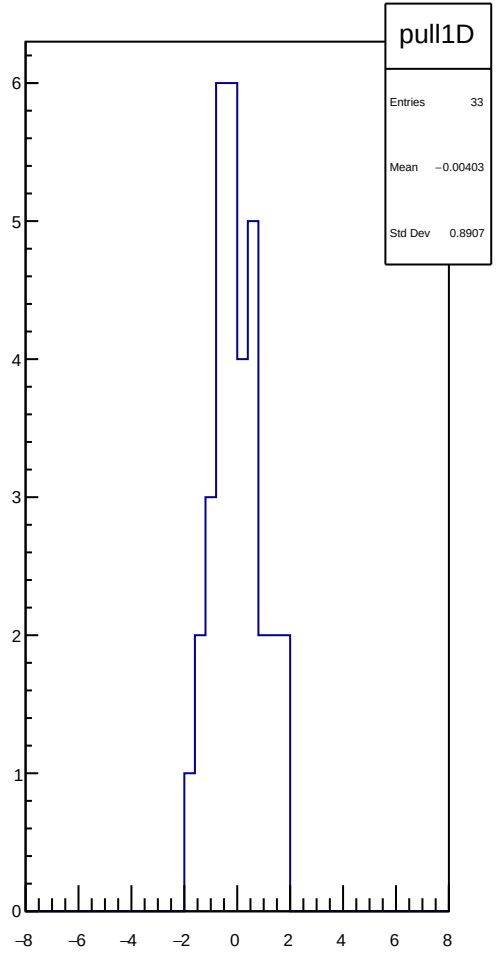

reg_asym_atl1_rms vs run
χ² / ndf 87.45 / 32
p0 3431 ± 4.249
3550
3500
3450
3400
3350
3300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

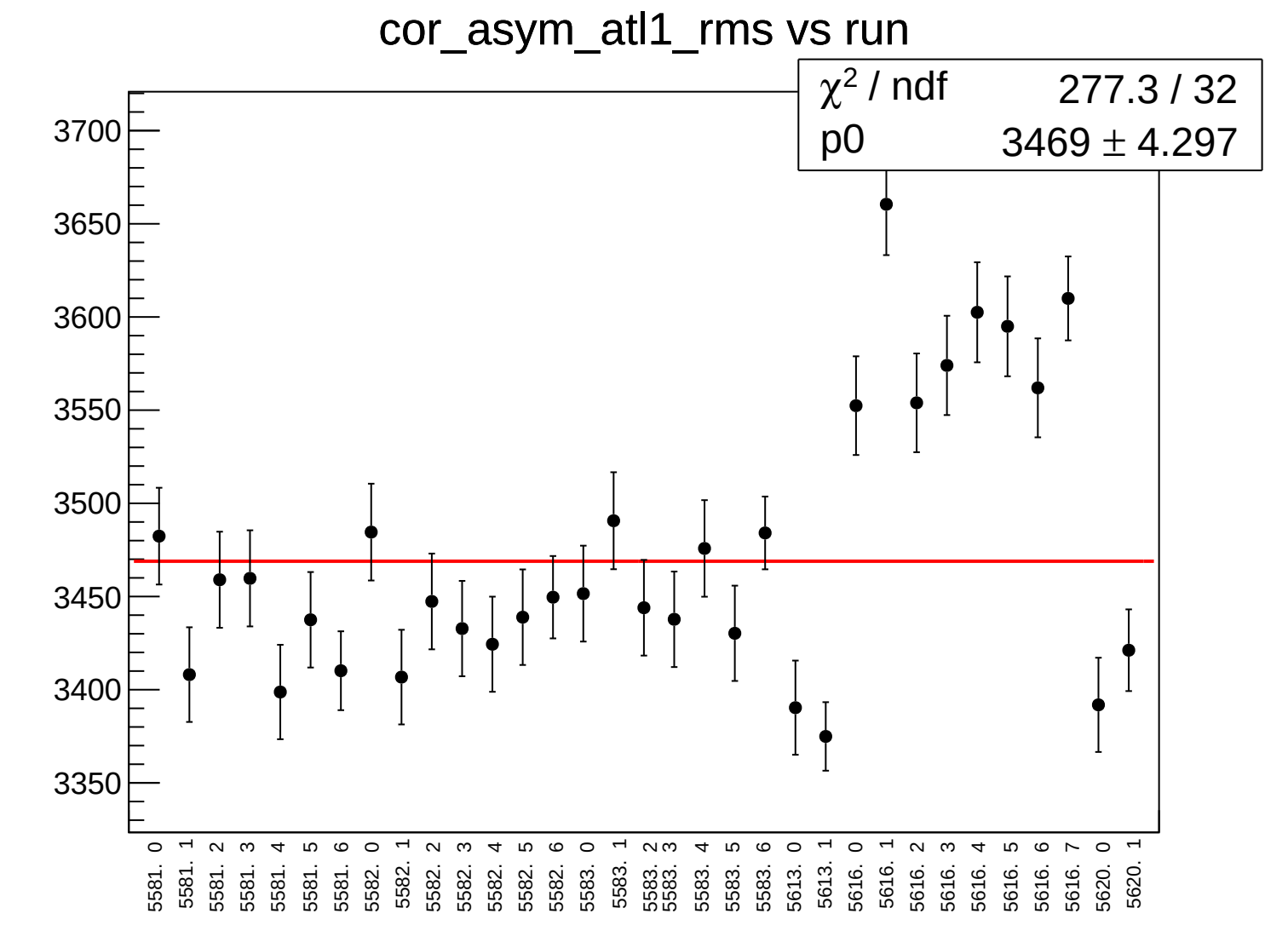

asym_atl1_reg_correction_mean vs run
χ² / ndf 34.46 / 32
p0 3732 ± 2205
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

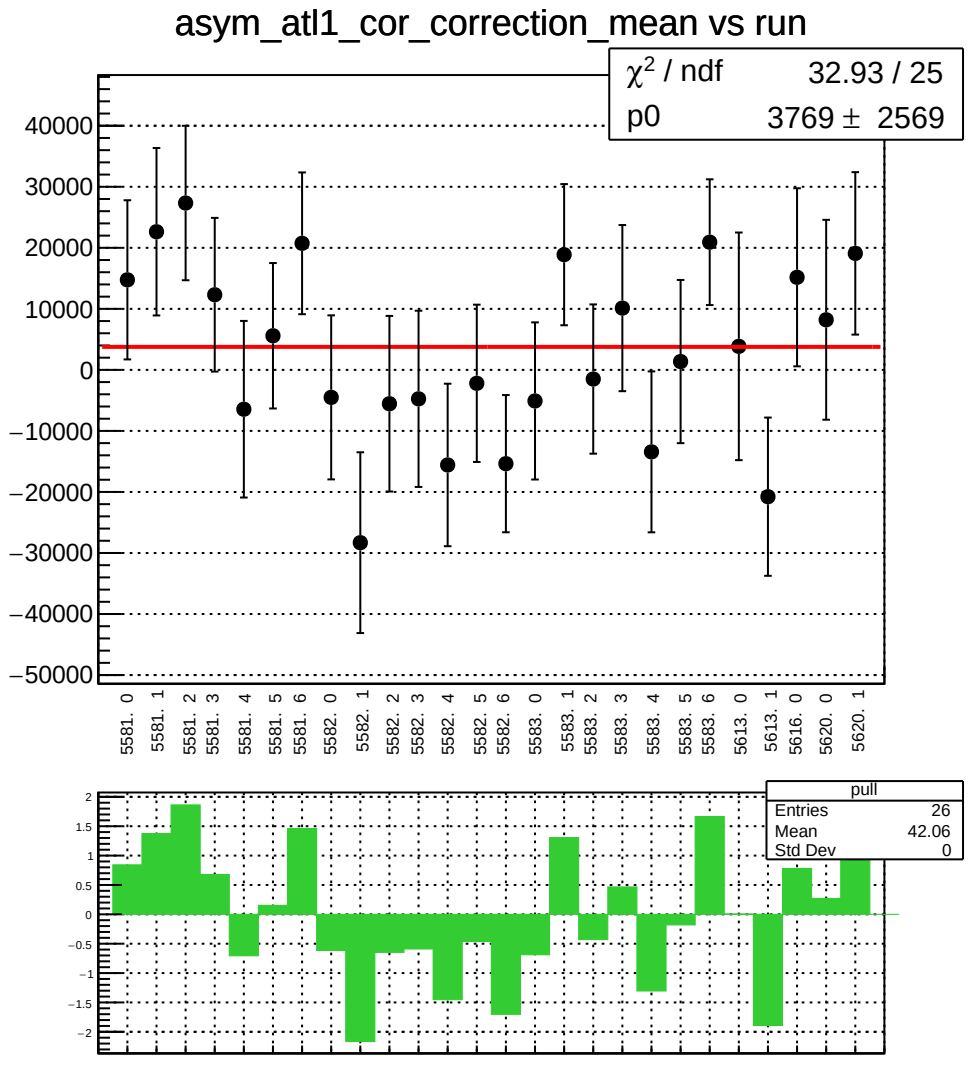

pull1D
Entries 33
Mean −0.03177
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

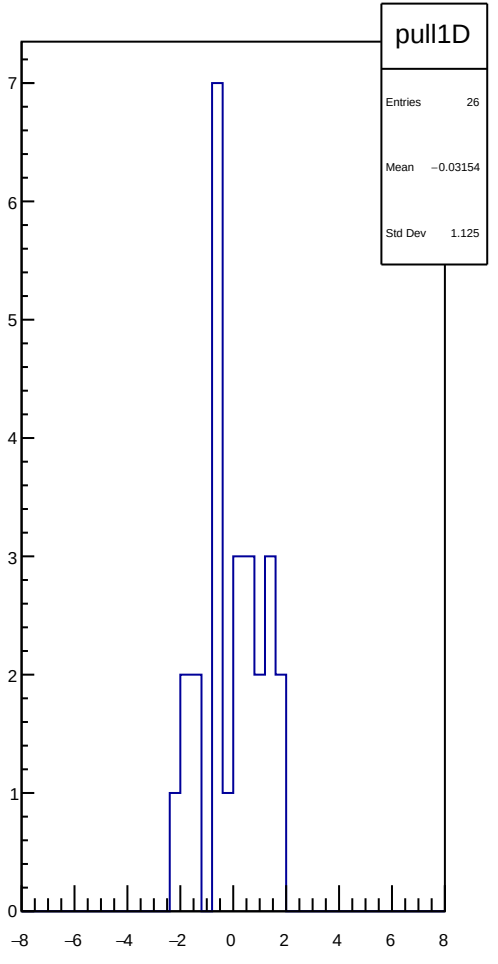

asym_atl1_reg_correction_rms vs run
χ² / ndf 7873 / 32
p0 1251 ± 1.559
1800
1700
1600
1500
1400
1300
1200
1100
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

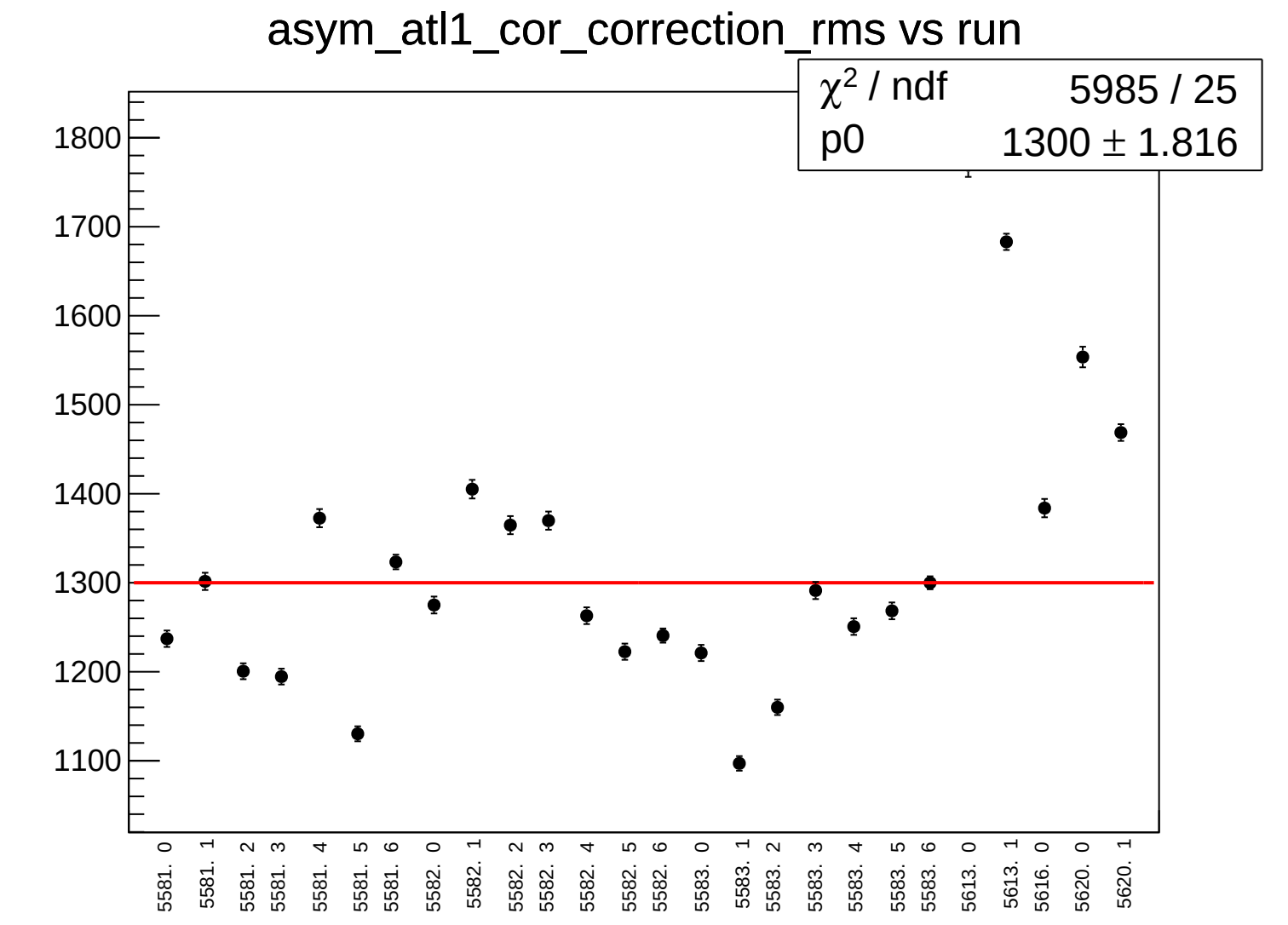

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 26.18 / 32
p0 1328 ± 6077
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 565.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

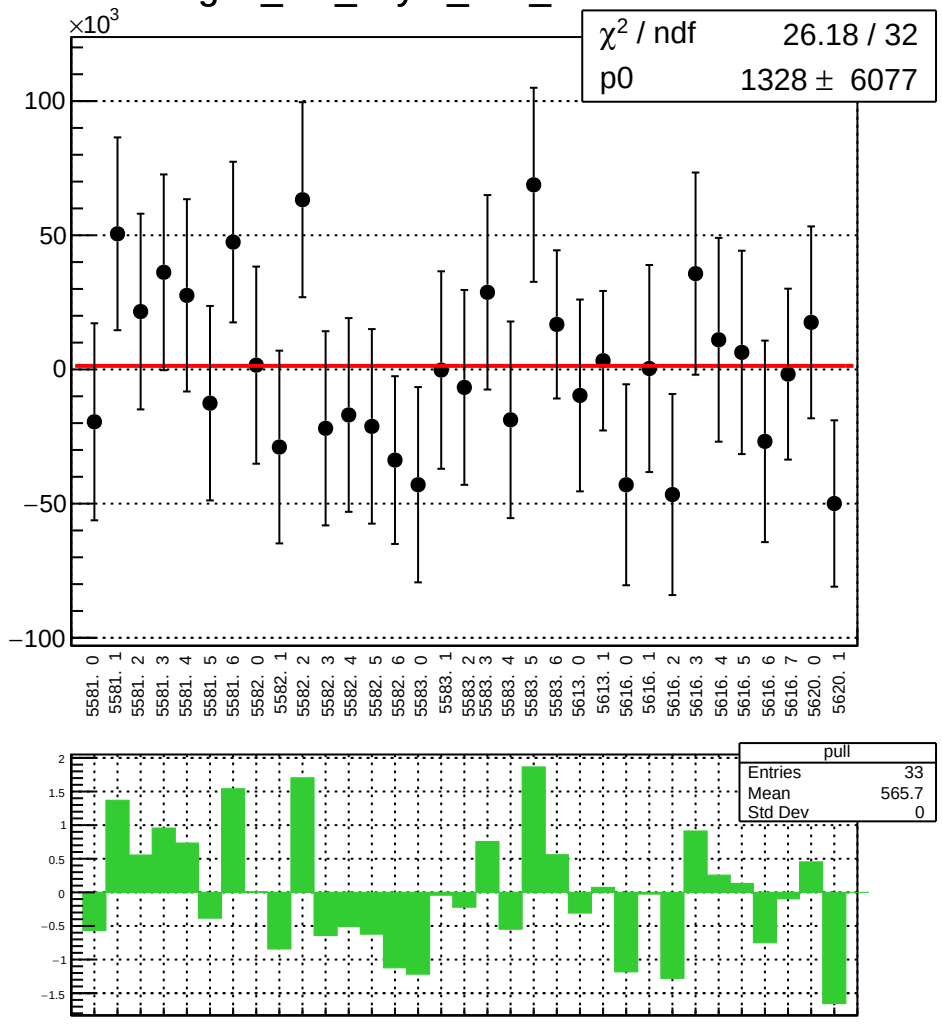

pull1D
Entries 33
Mean −0.00403
Std Dev 0.8907
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

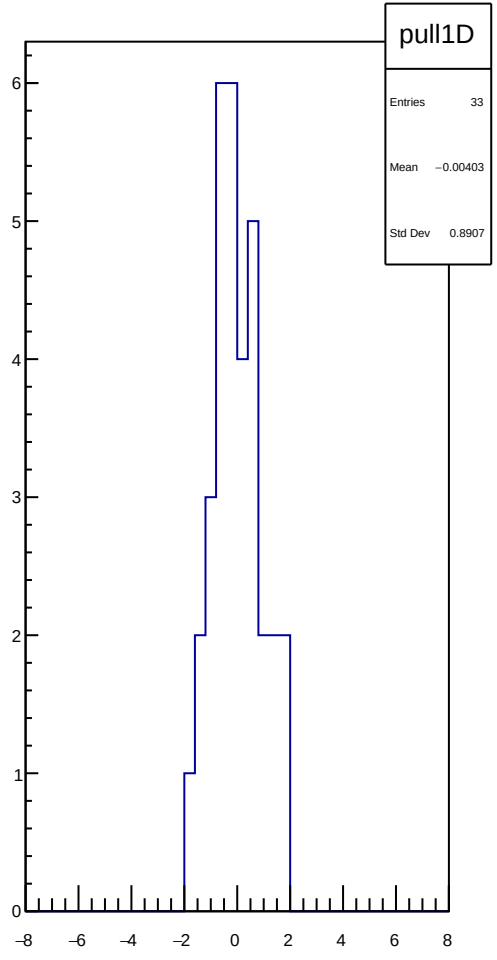

cor_asym_atl1_rms vs run
χ² / ndf 277.3 / 32
p0 3469 ± 4.297
3700
3650
3600
3550
3500
3450
3400
3350
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

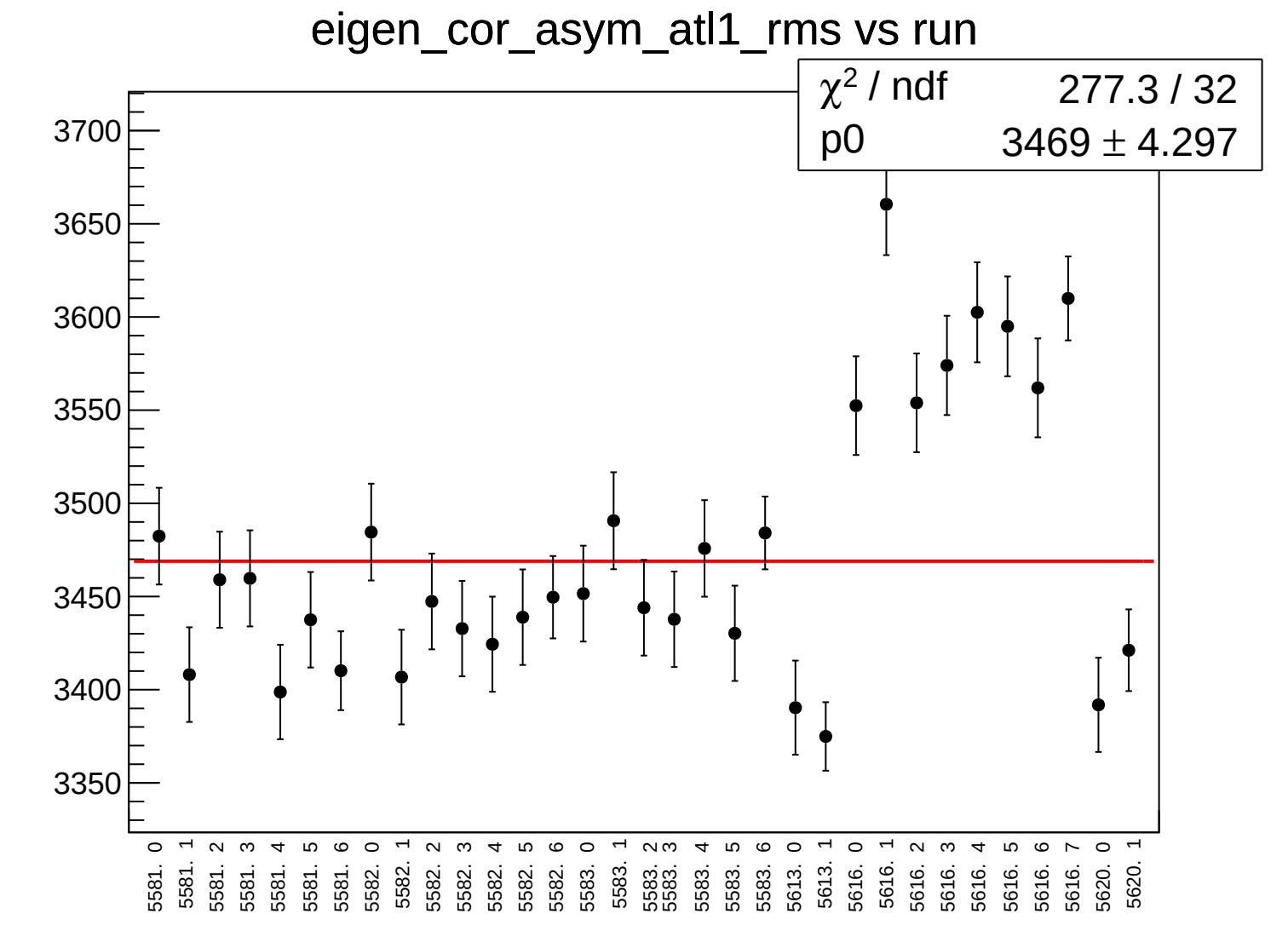

asym_atl1_cor_correction_mean vs run
χ² / ndf 32.93 / 25
p0 3769 ± 2569
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 42.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

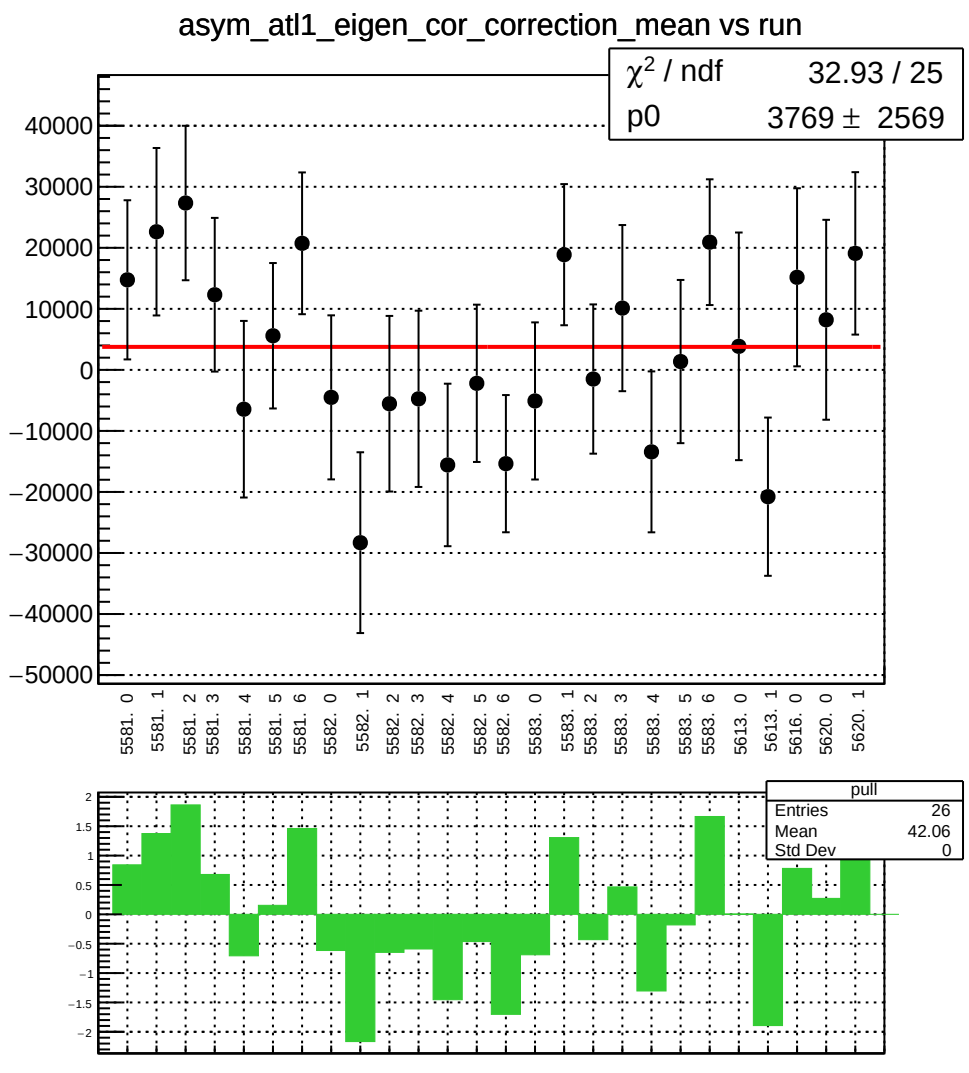

pull1D
Entries 26
Mean −0.03154
Std Dev 1.125
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

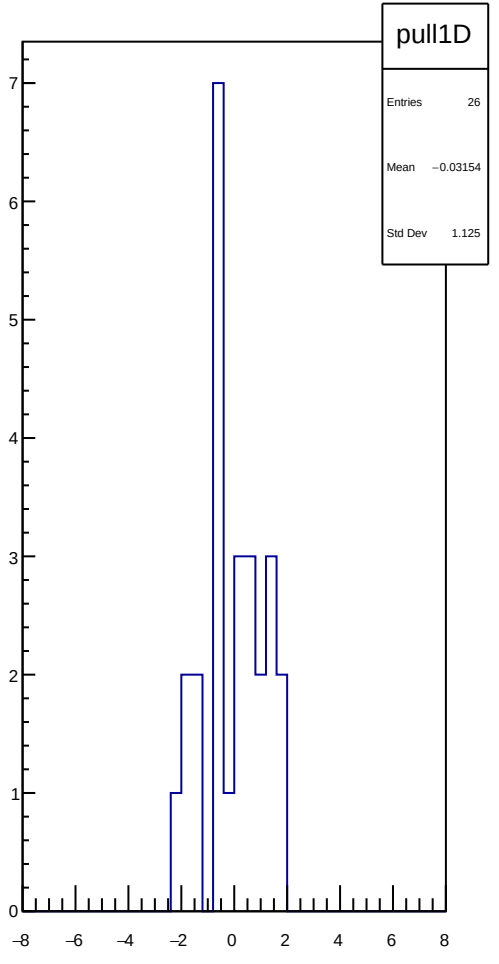

asym_atl1_cor_correction_rms vs run
χ² / ndf 5985 / 25
p0 1300 ± 1.816
1800
1700
1600
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

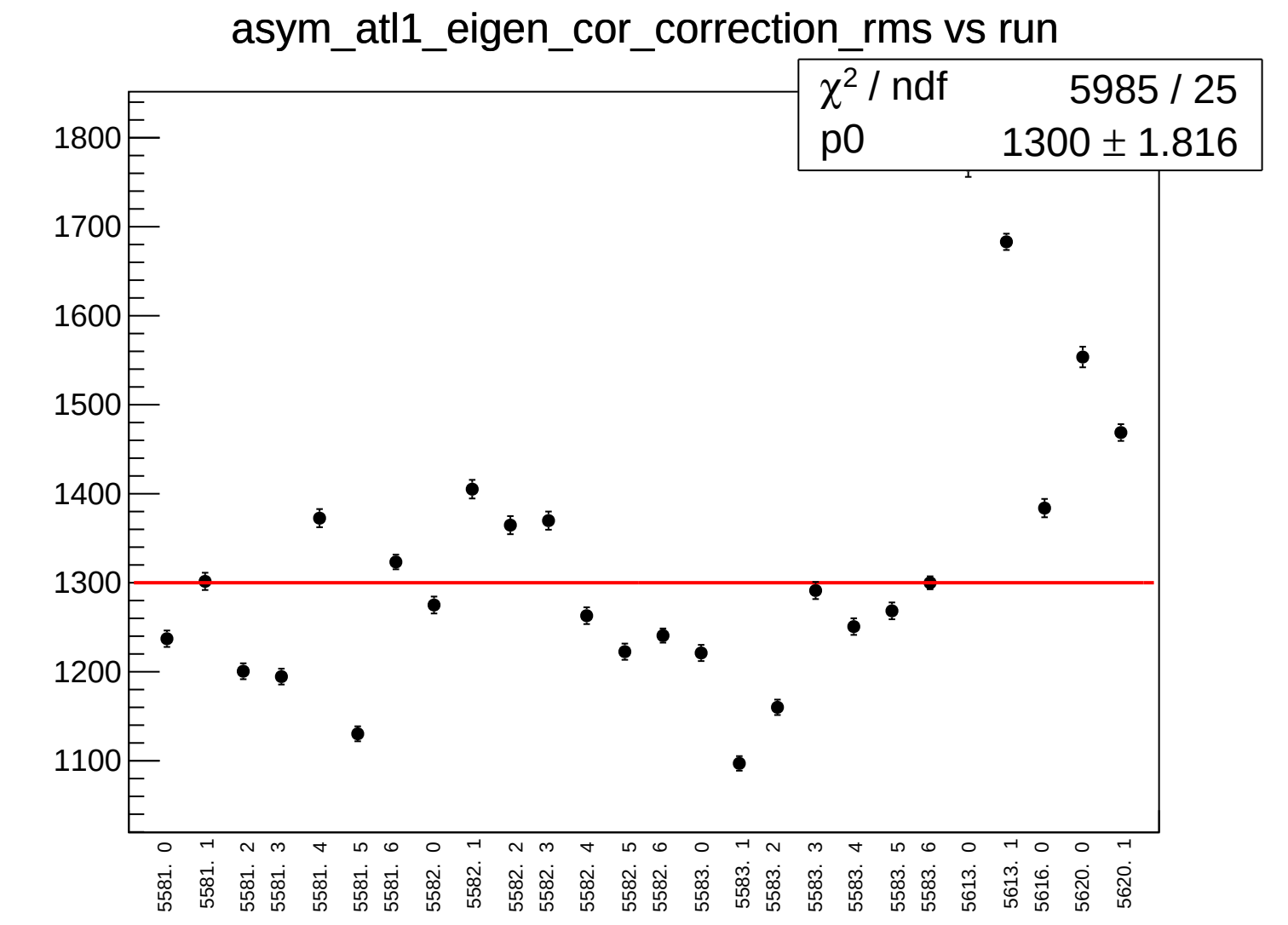

eigen_cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 26.18 / 32
p0 1328 ± 6077
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 565.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

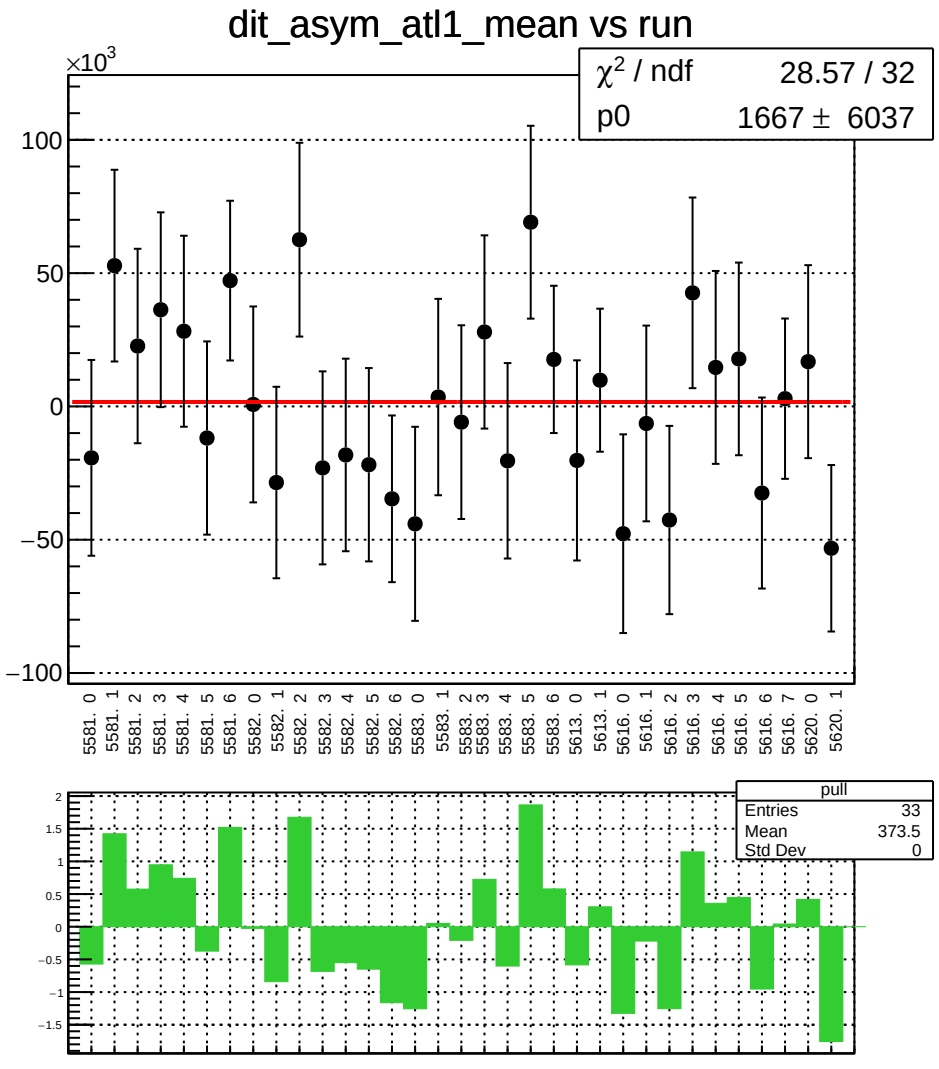

pull1D
Entries 33
Mean −0.00403
Std Dev 0.8907
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

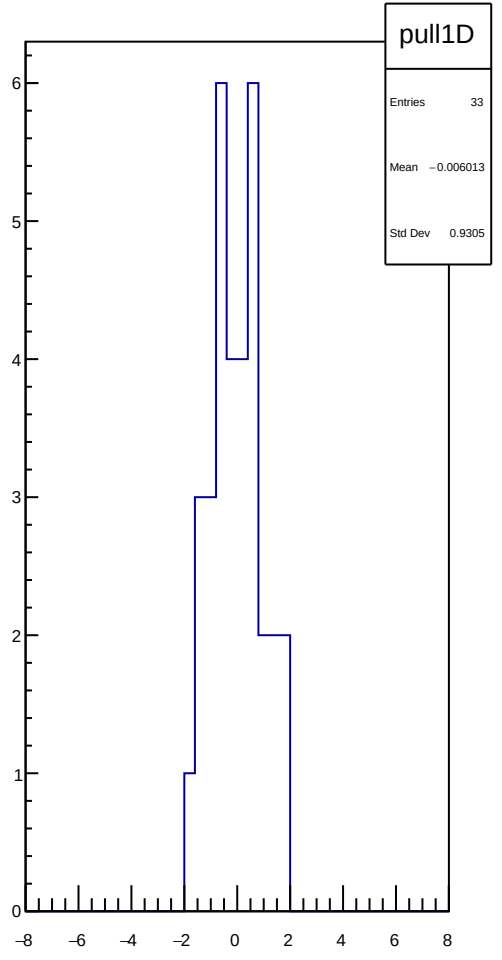

eigen_cor_asym_atl1_rms vs run
χ² / ndf 277.3 / 32
p0 3469 ± 4.297
3700
3650
3600
3550
3500
3450
3400
3350
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

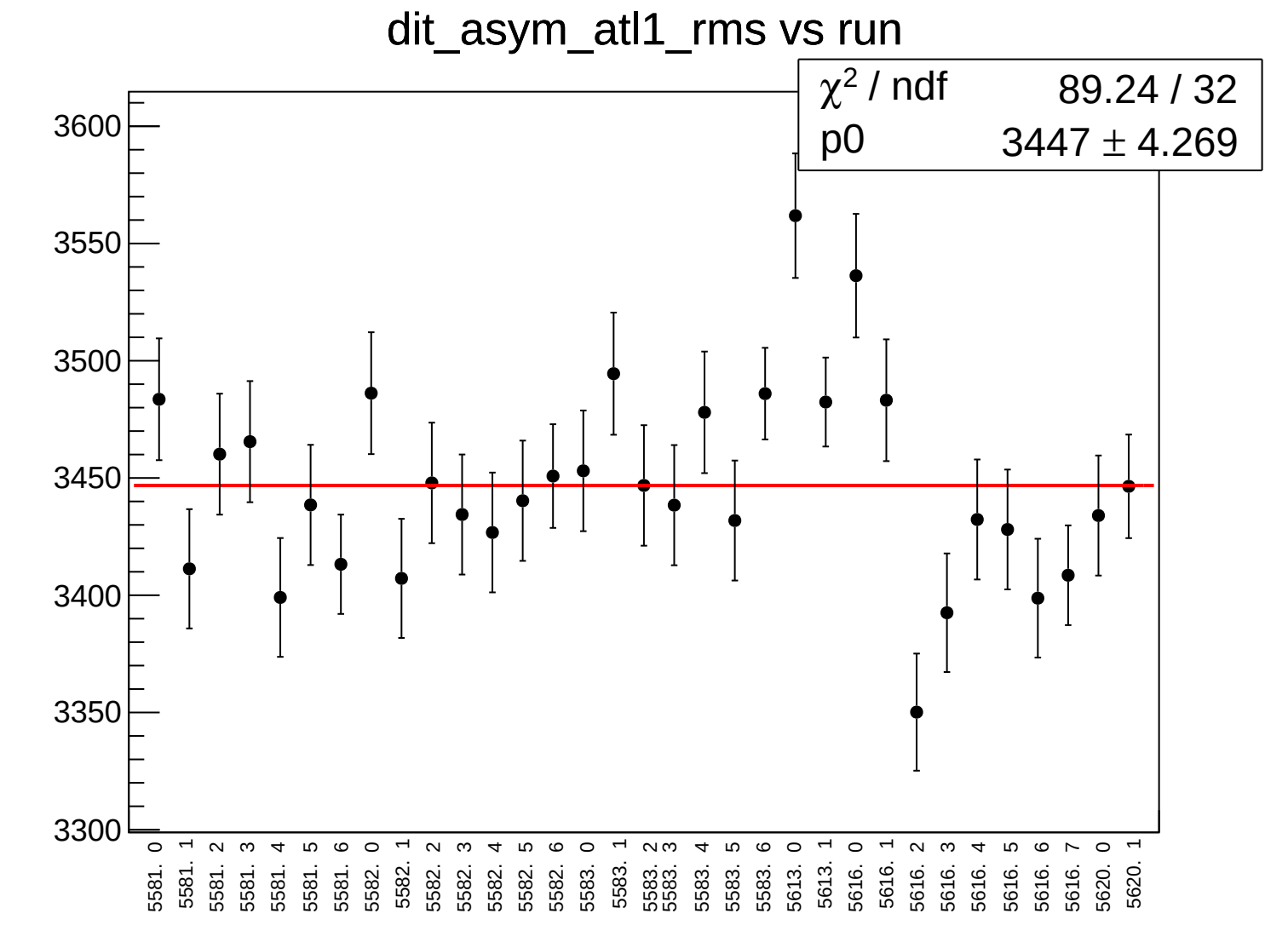

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 32.93 / 25
p0 3769 ± 2569
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 42.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

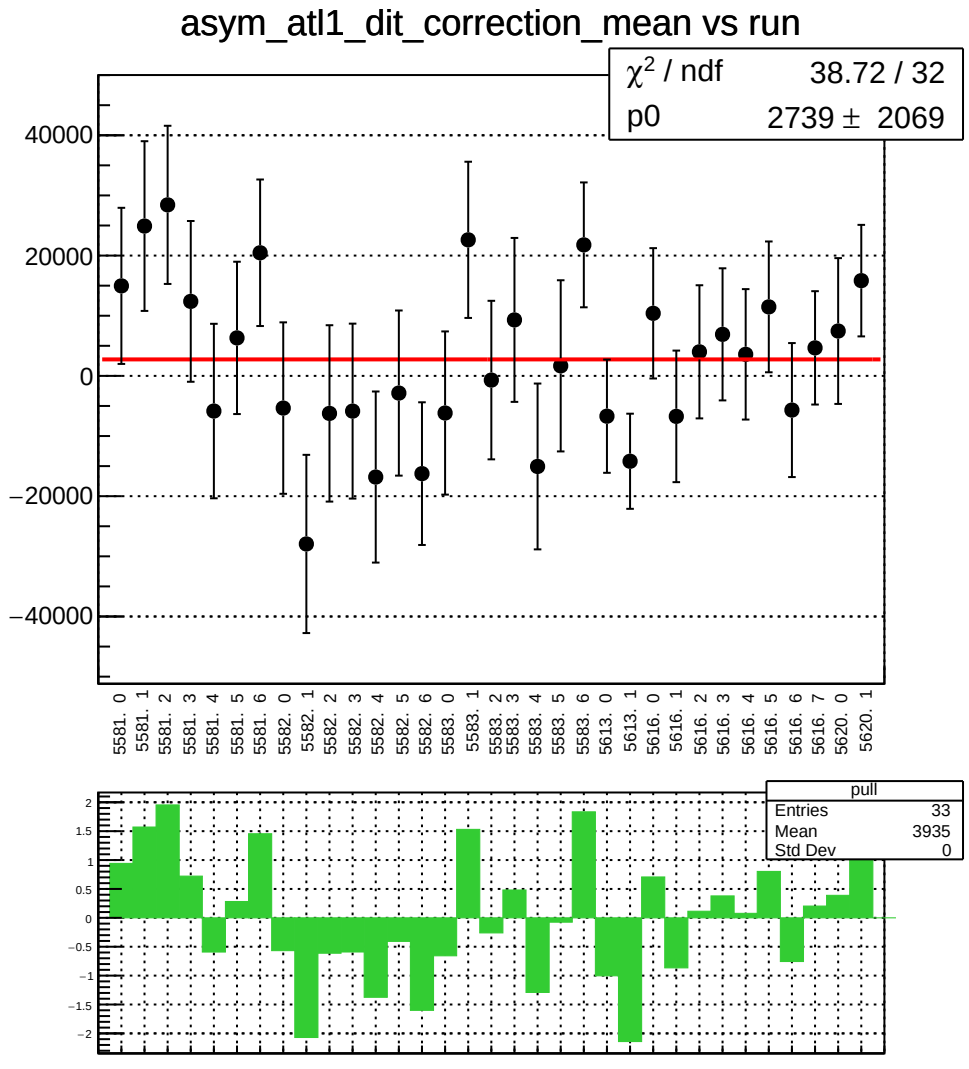

pull1D
Entries 26
Mean −0.03154
Std Dev 1.125
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

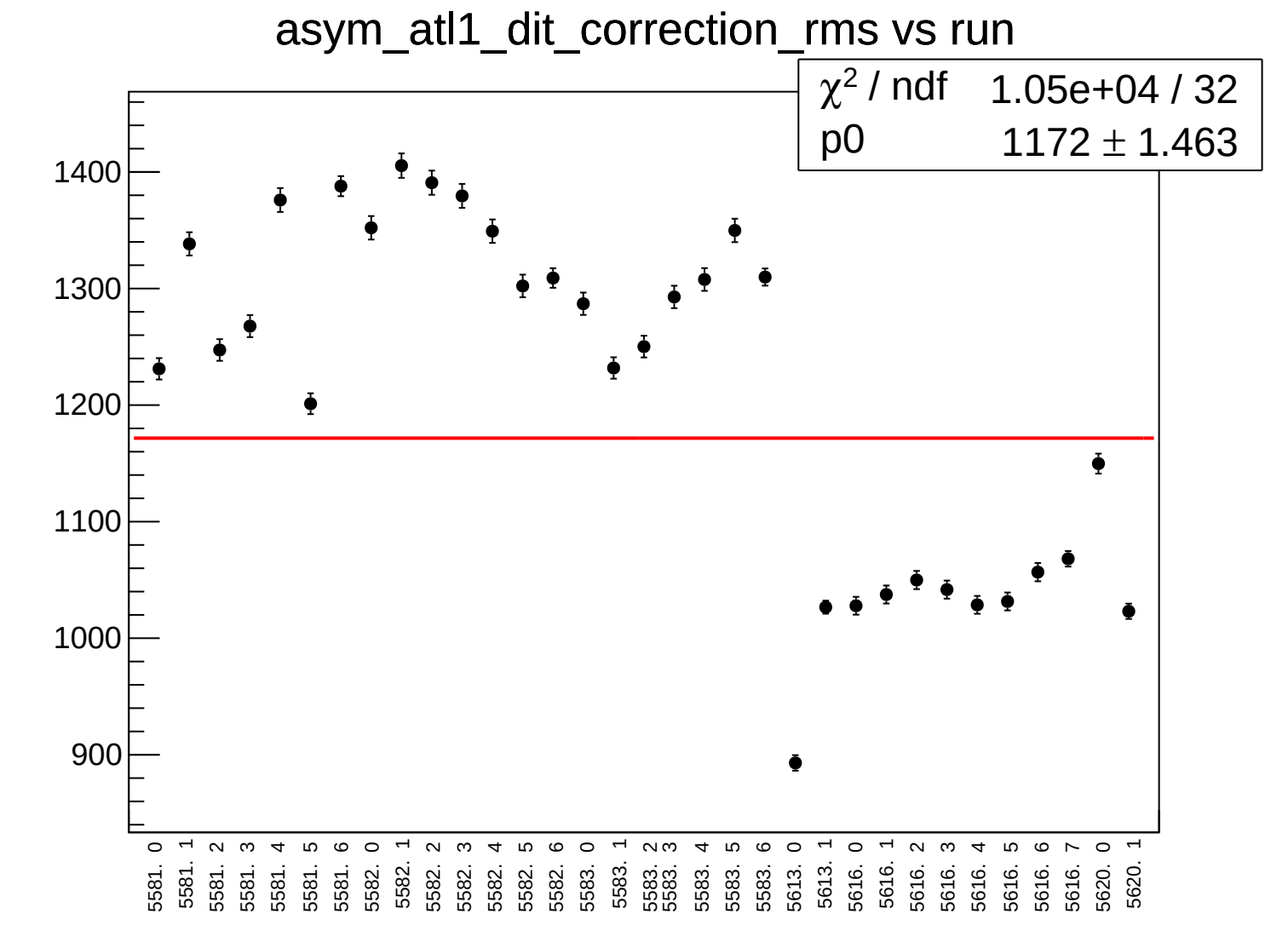

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 5985 / 25
p0 1300 ± 1.816
1800
1700
1600
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

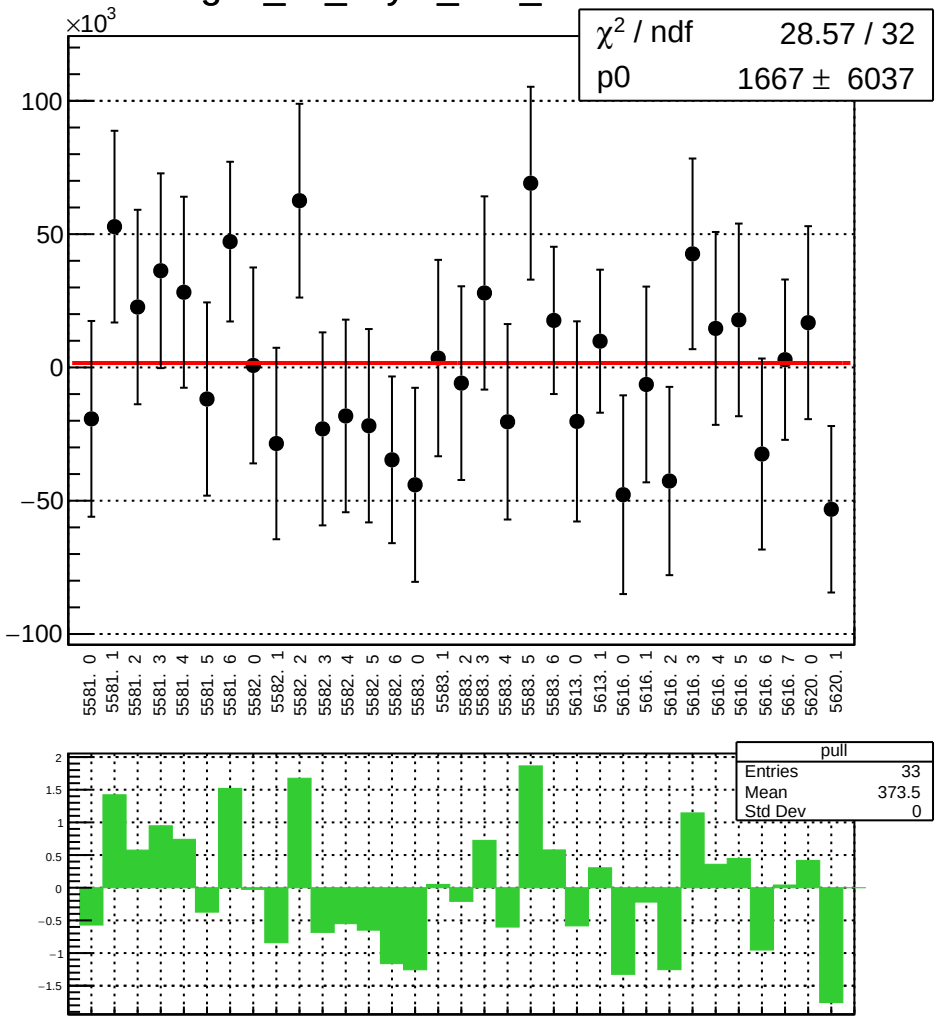

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 28.57 / 32
p0 1667 ± 6037
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 373.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

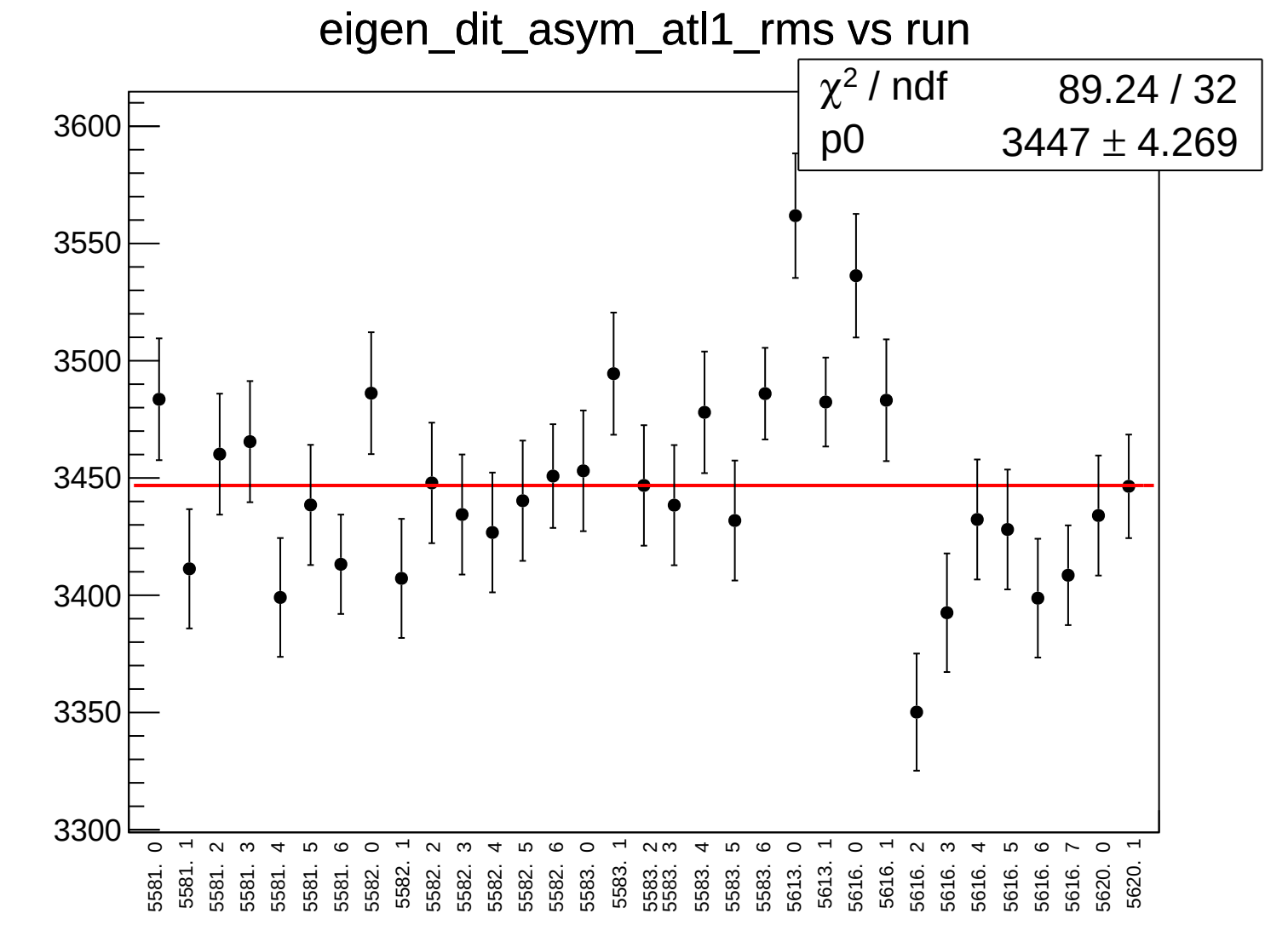

pull1D
Entries 33
Mean −0.006013
Std Dev 0.9305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

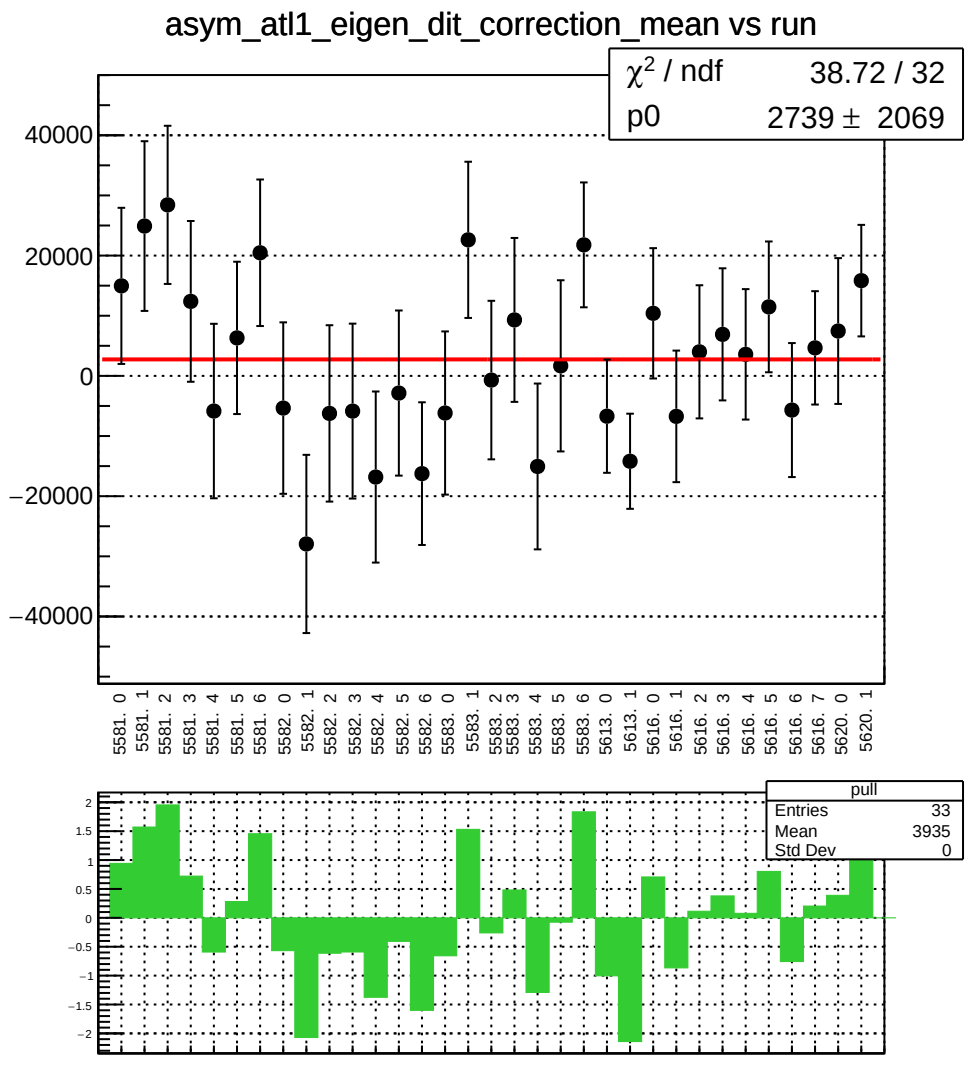

dit_asym_atl1_rms vs run
χ² / ndf 89.24 / 32
p0 3447 ± 4.269
3600
3550
3500
3450
3400
3350
3300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

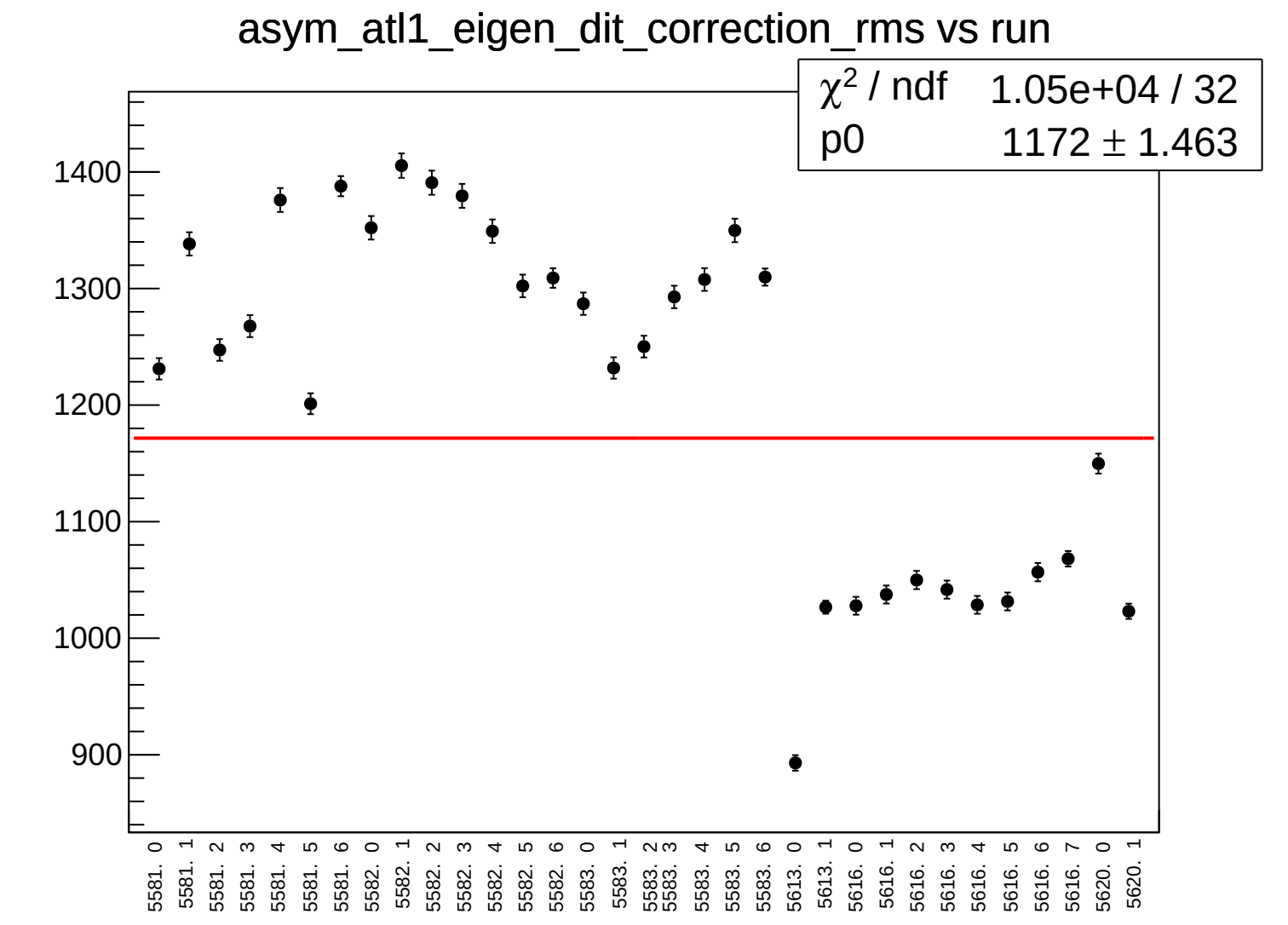

asym_atl1_dit_correction_mean vs run
χ² / ndf 38.72 / 32
p0 2739 ± 2069
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 3935
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.0001655
Std Dev 1.083
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

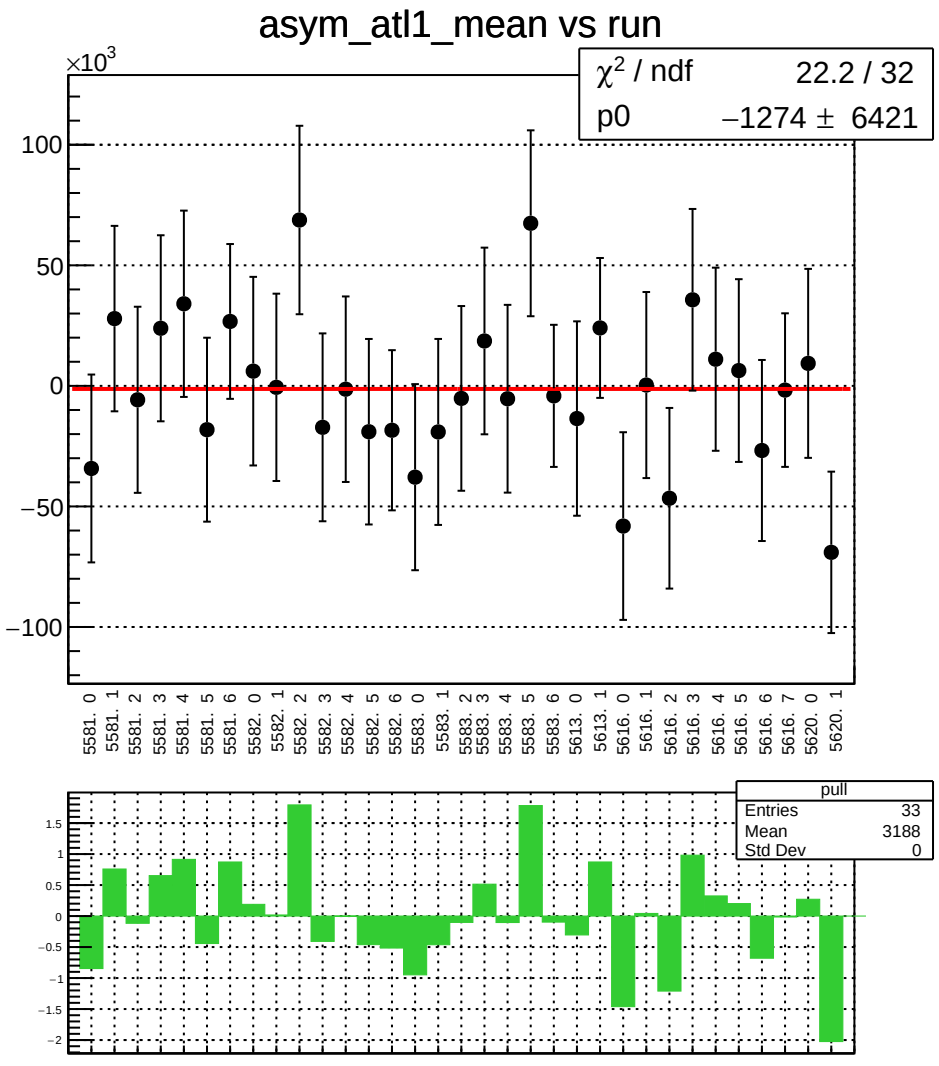

asym_atl1_dit_correction_rms vs run
χ² / ndf 1.05e+04 / 32
p0 1172 ± 1.463
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

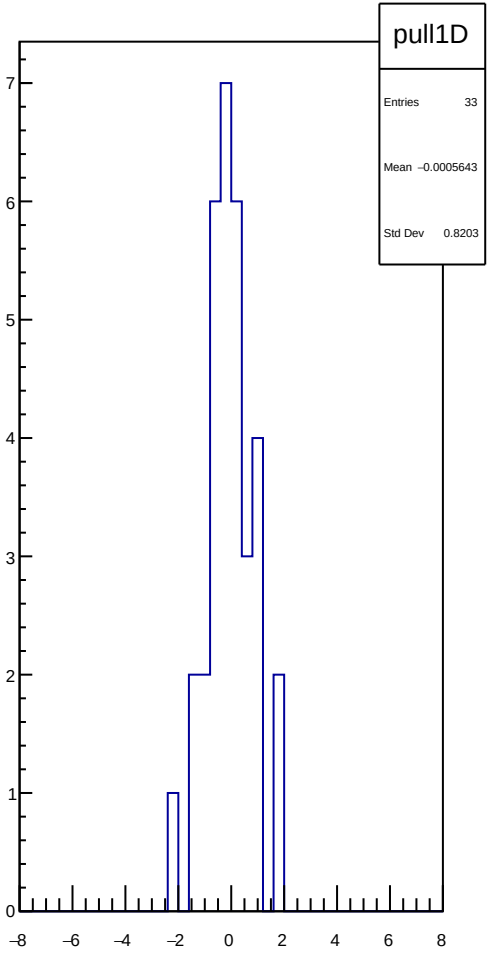

eigen_dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 28.57 / 32
p0 1667 ± 6037
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 373.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.006013
Std Dev 0.9305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

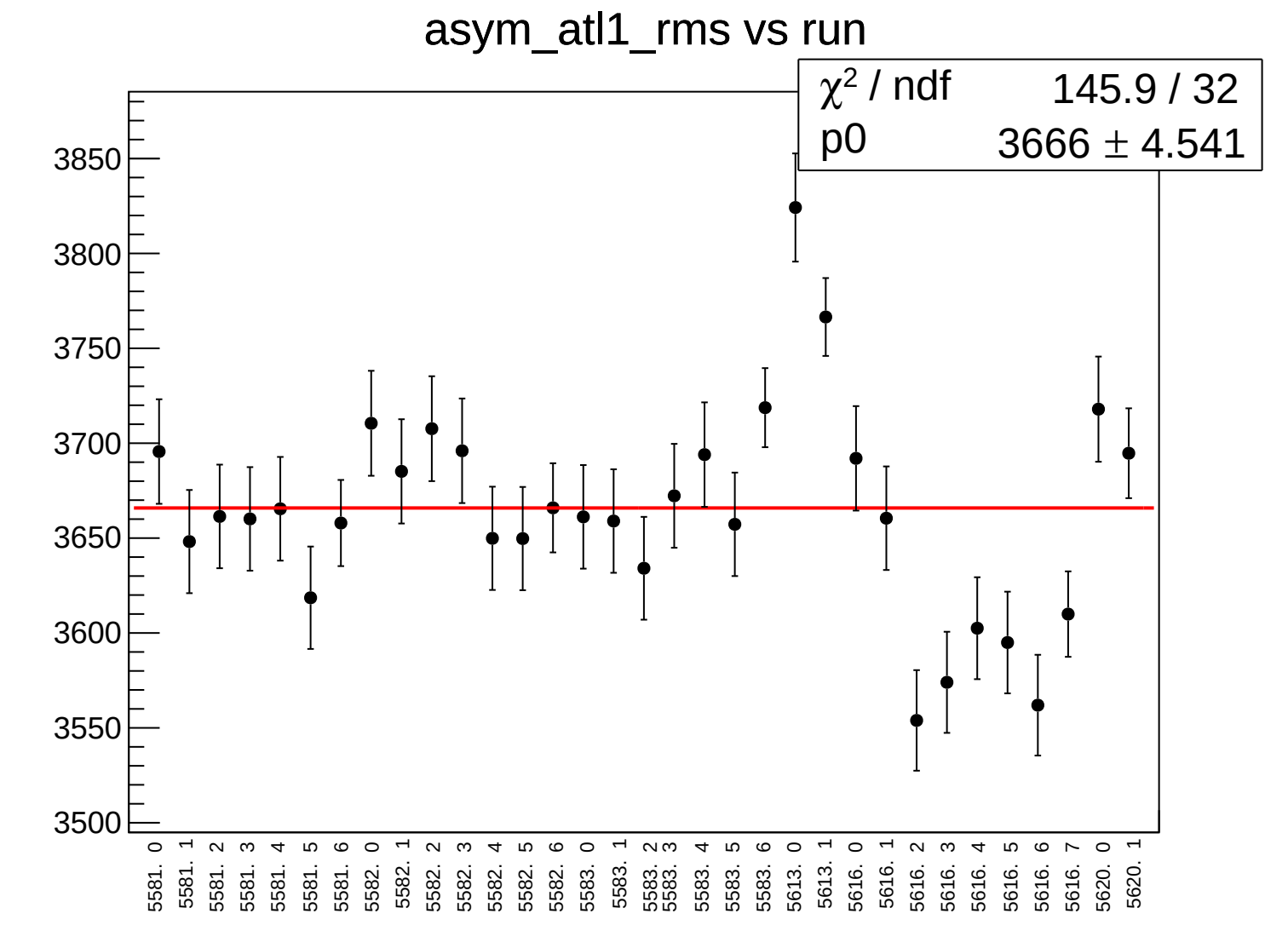

eigen_dit_asym_atl1_rms vs run
χ² / ndf 89.24 / 32
p0 3447 ± 4.269
3600
3550
3500
3450
3400
3350
3300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

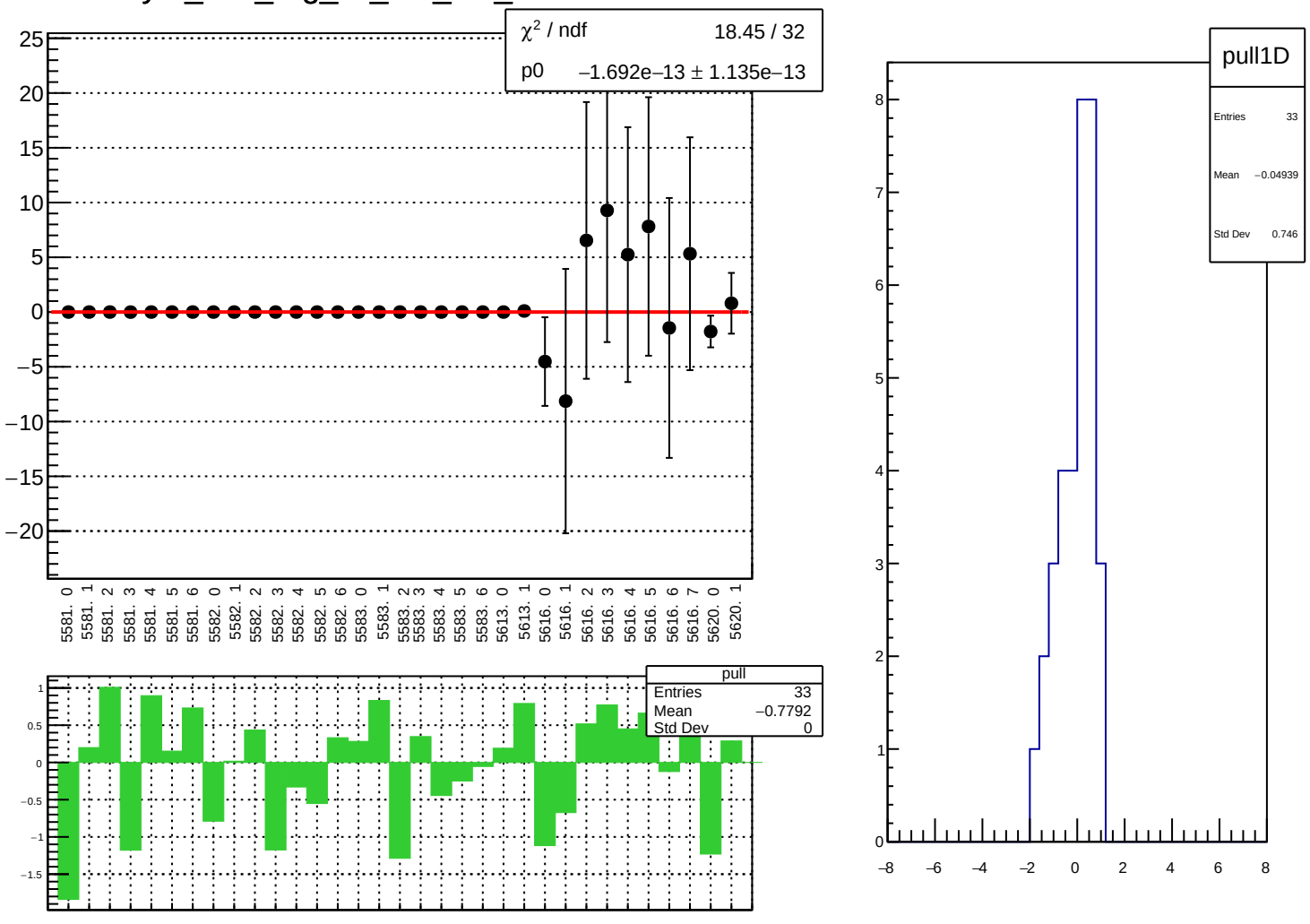

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 38.72 / 32
p0 2739 ± 2069
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 3935
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.0001655
Std Dev 1.083
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

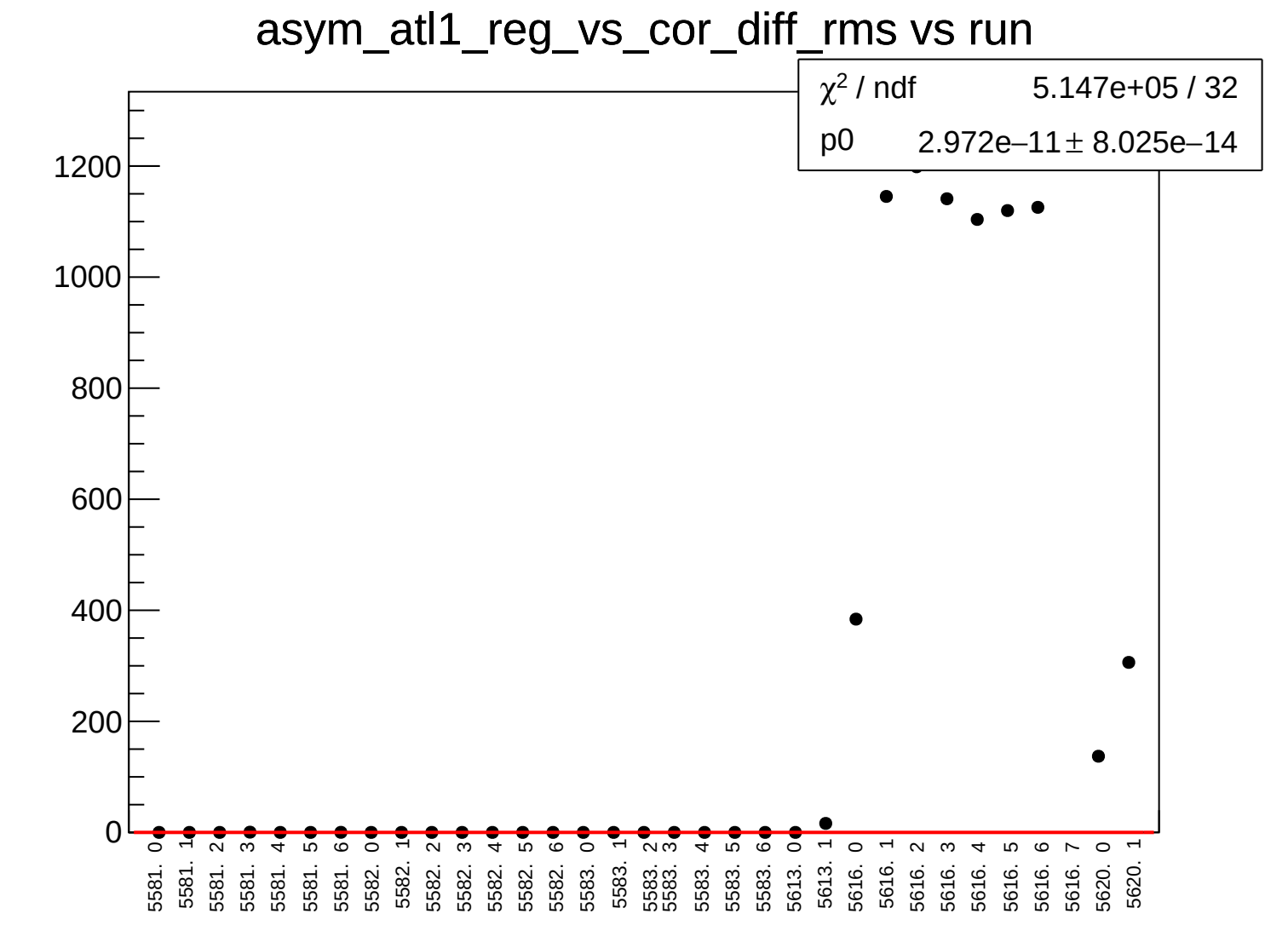

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.05e+04 / 32
p0 1172 ± 1.463
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

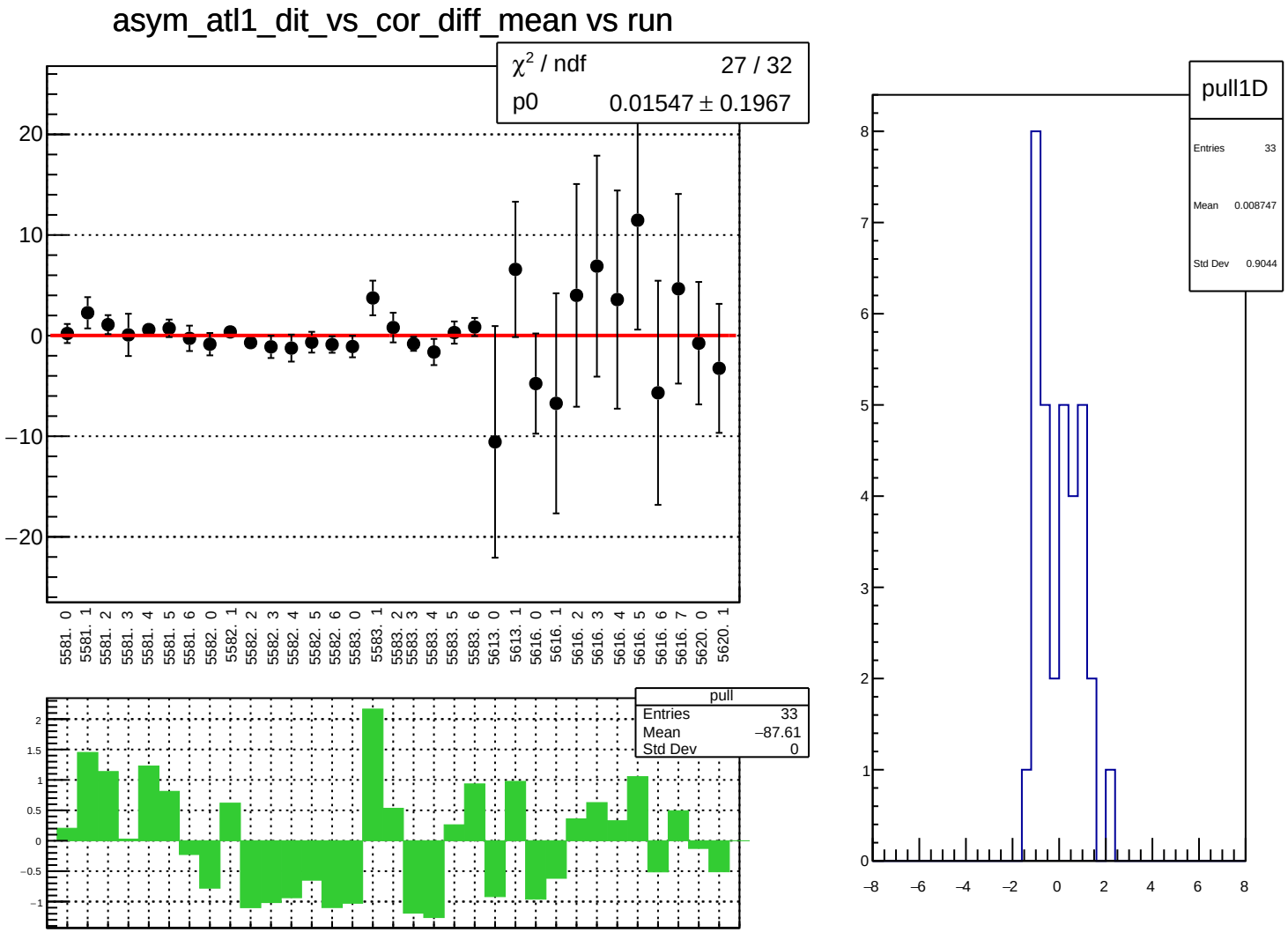

asym_atl1_mean vs run
×10^3
χ^2 / ndf 22.2 / 32
p0 −1274 ± 6421
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 3188
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

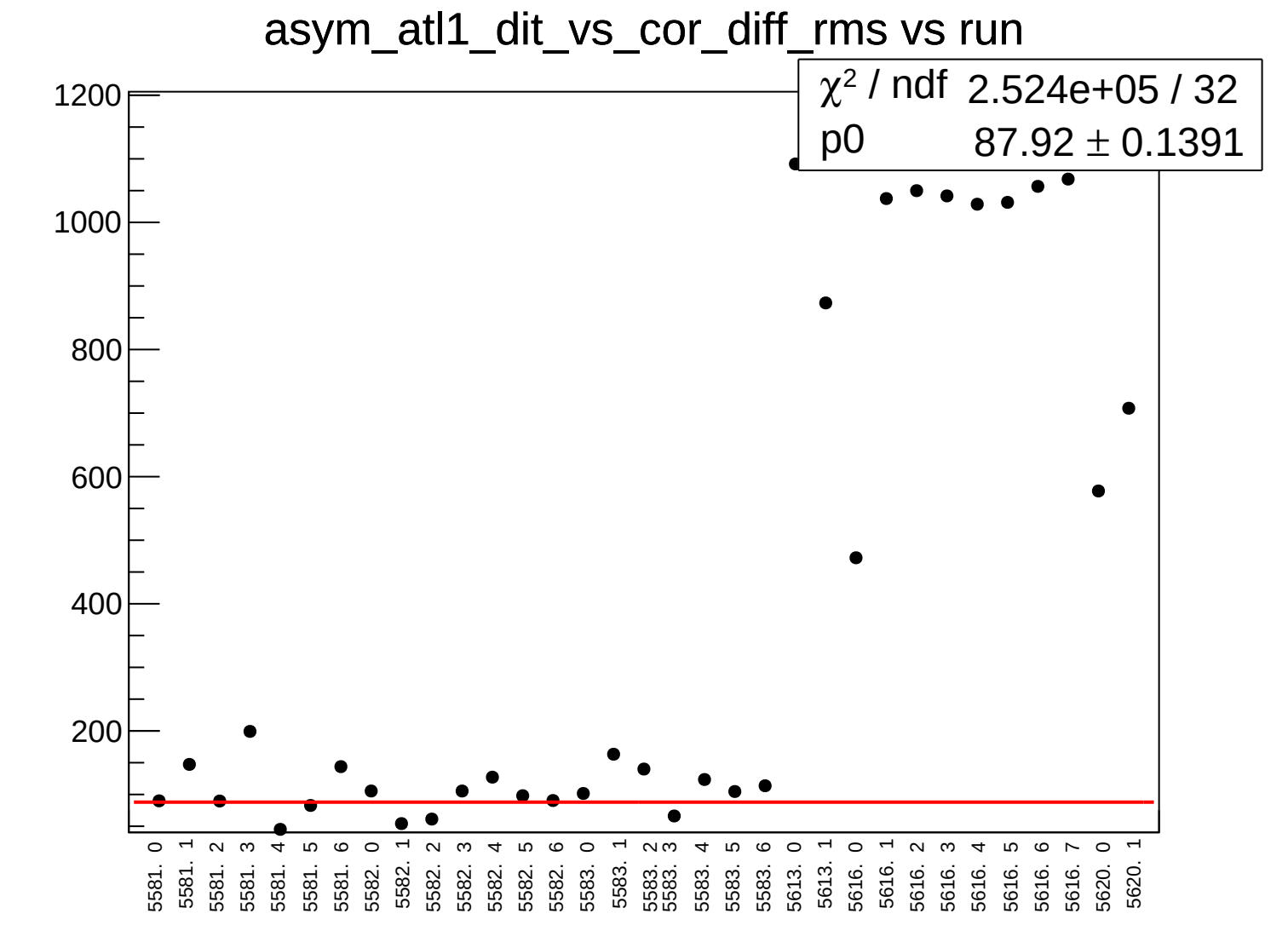

pull1D
Entries 33
Mean −0.0005643
Std Dev 0.8203
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

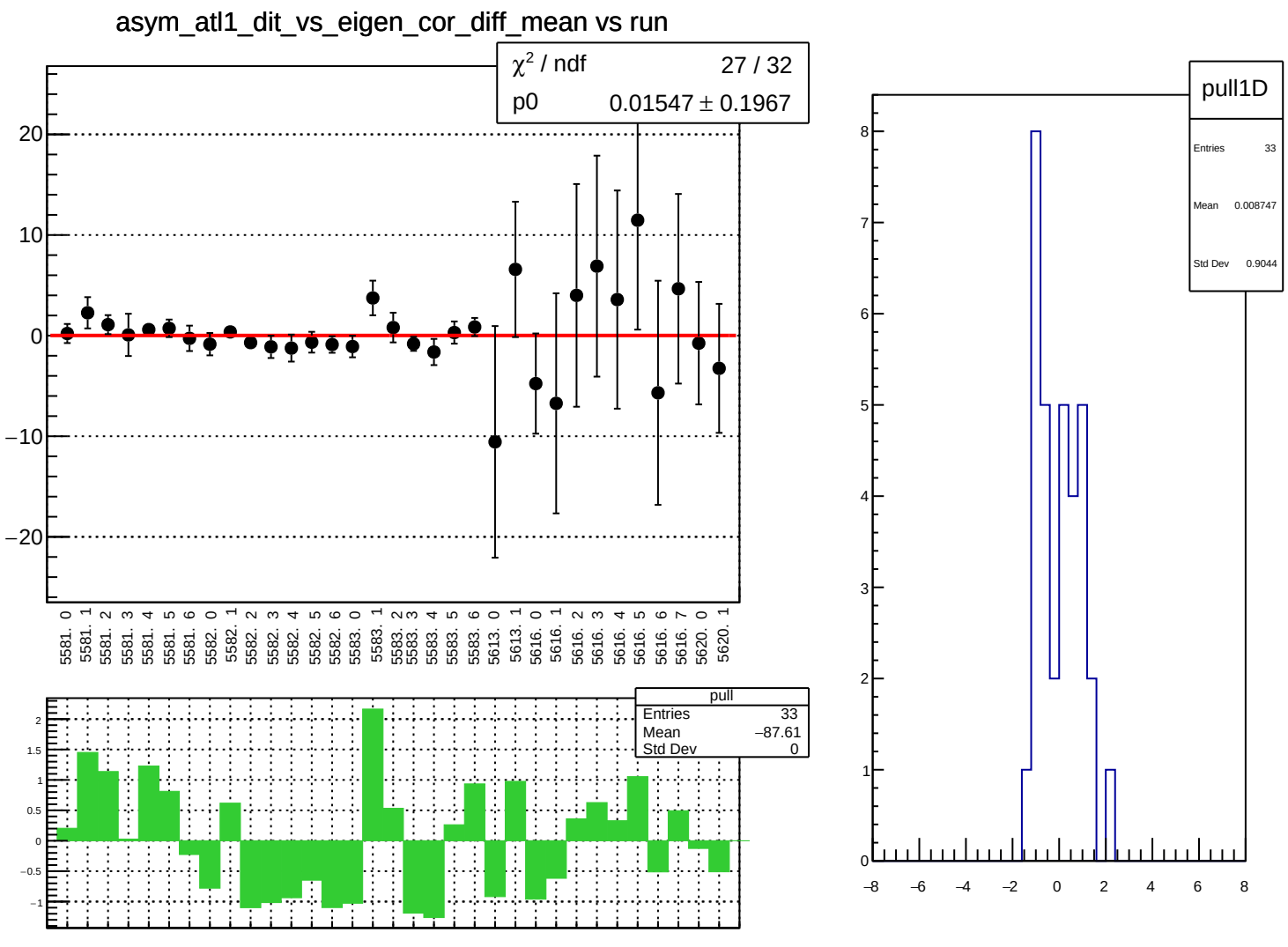

asym_atl1_rms vs run
χ² / ndf 145.9 / 32
p0 3666 ± 4.541
3850
3800
3750
3700
3650
3600
3550
3500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

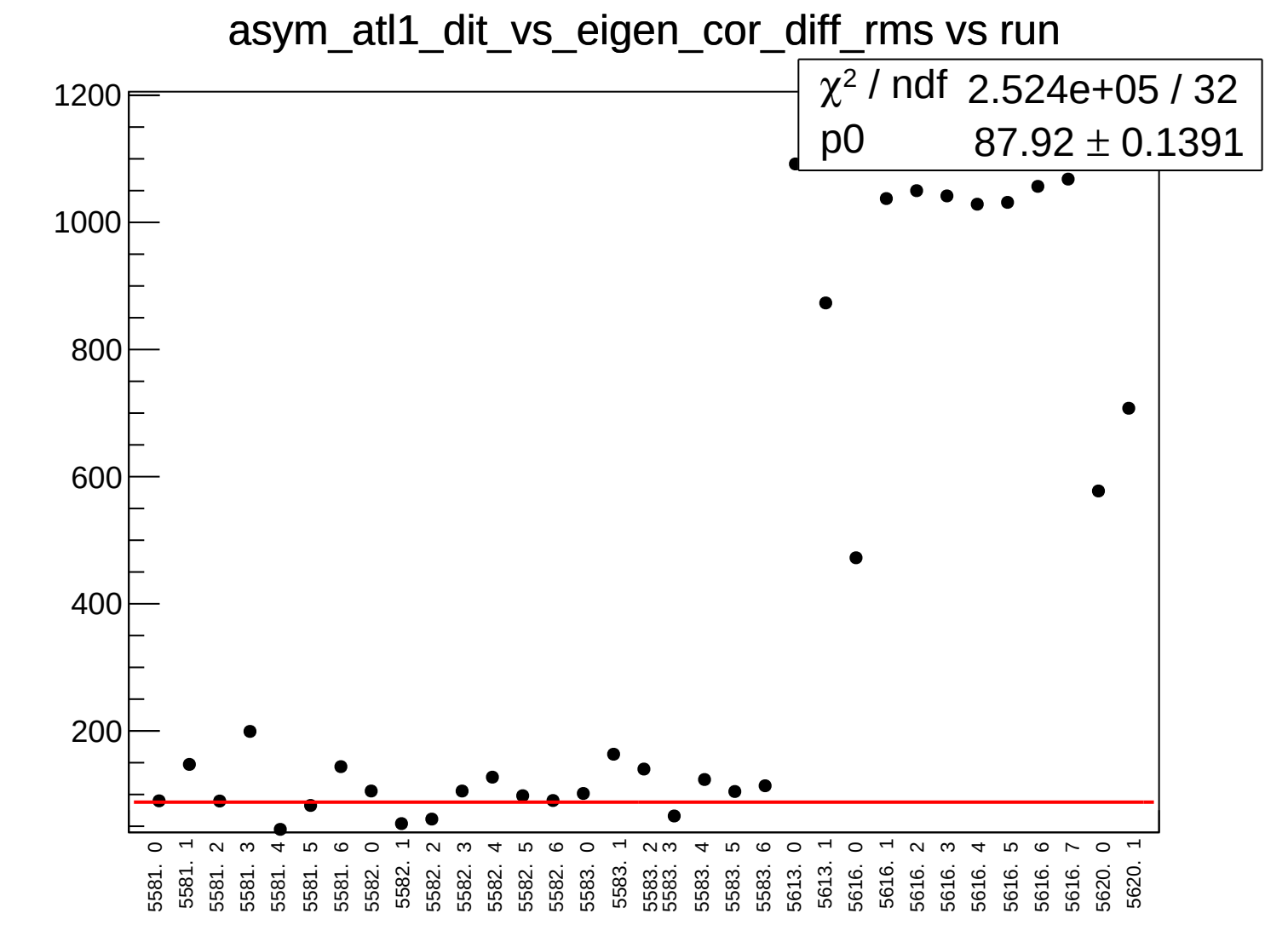

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 18.45 / 32
p0 −1.692e−13 ± 1.135e−13
25
20
15
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.7792
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.04939
Std Dev 0.746
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

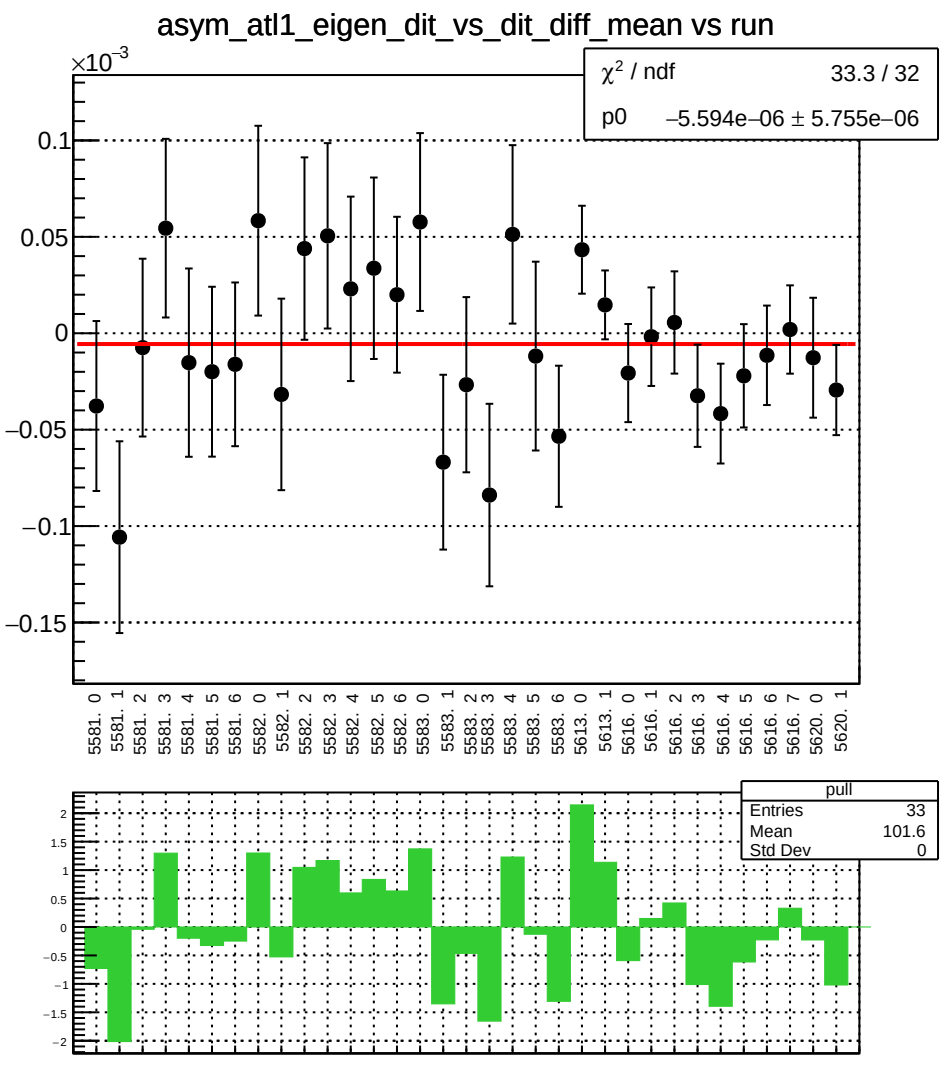

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 5.147e+05 / 32
p0 2.972e−11 ± 8.025e−14
0
200
400
600
800
1000
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

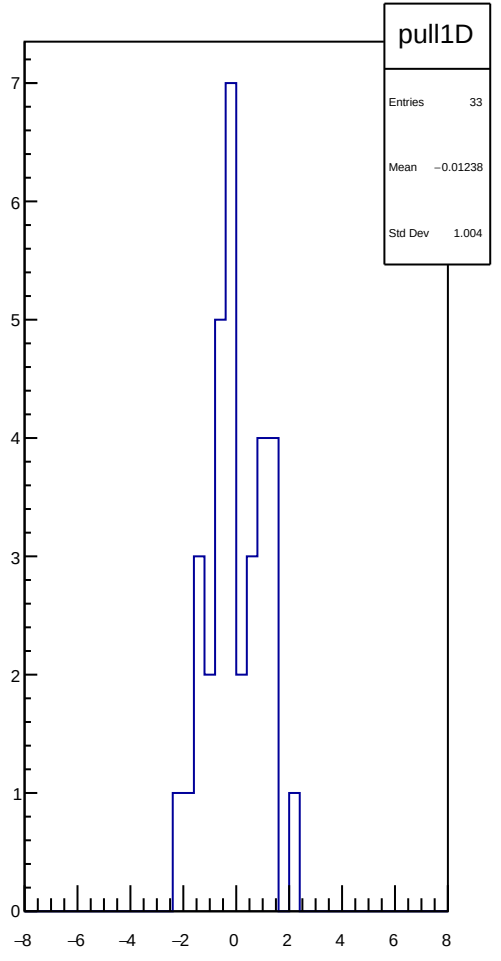

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 27 / 32
p0 0.01547 ± 0.1967
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −87.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.008747
Std Dev 0.9044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

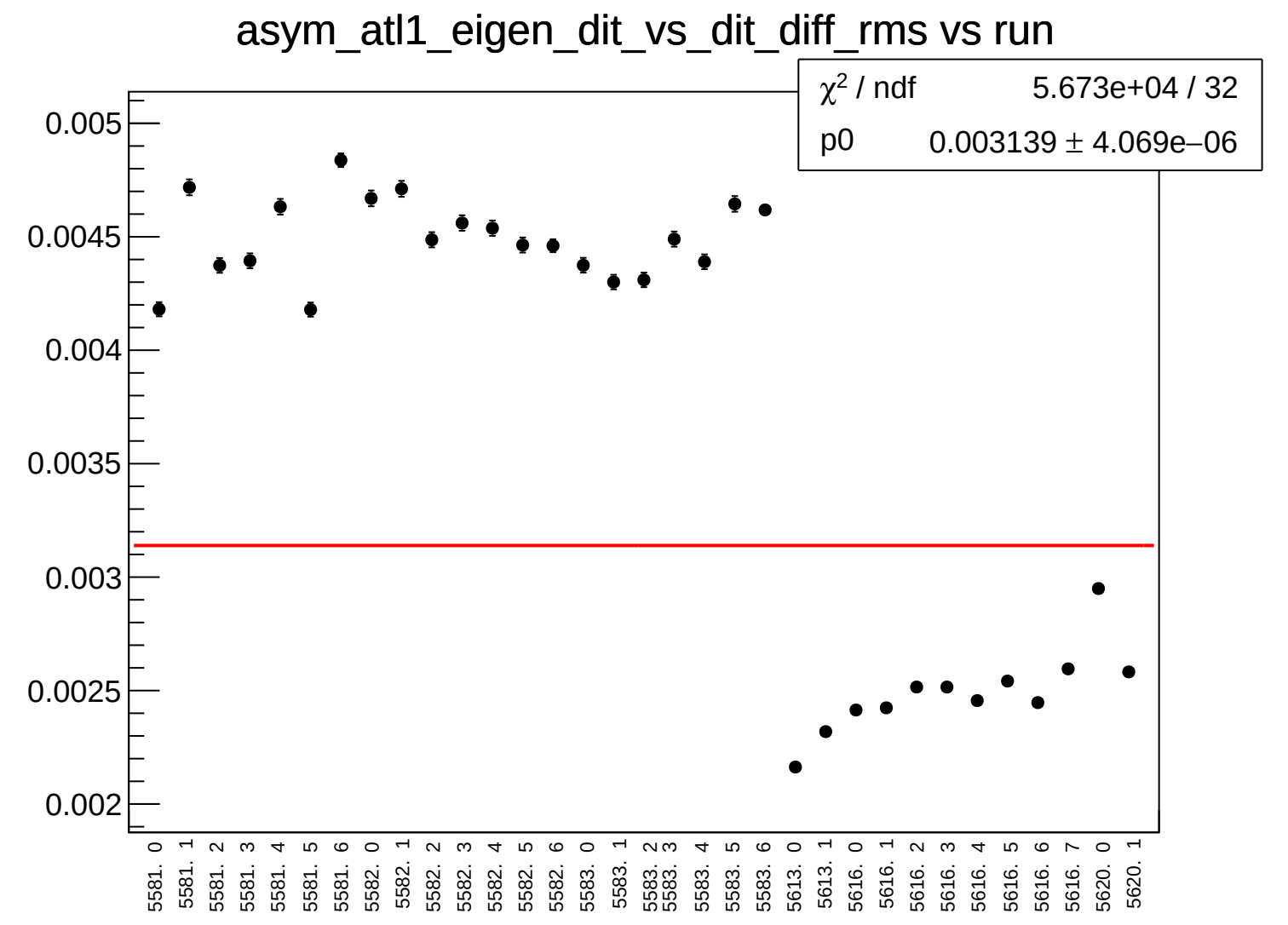

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.524e+05 / 32
p0 87.92 ± 0.1391
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

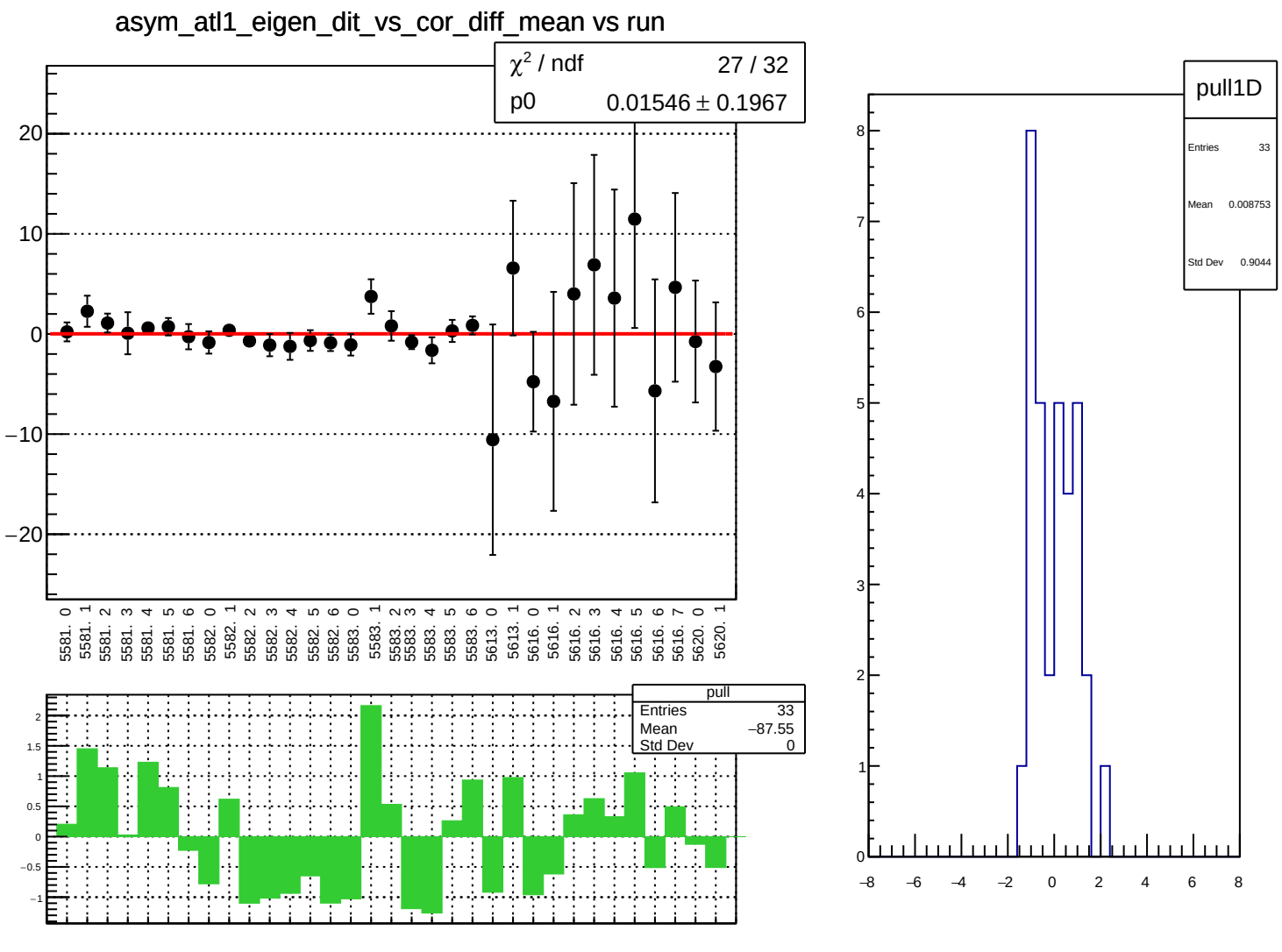

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27 / 32
p0 0.01547 ± 0.1967
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −87.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.008747
Std Dev 0.9044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

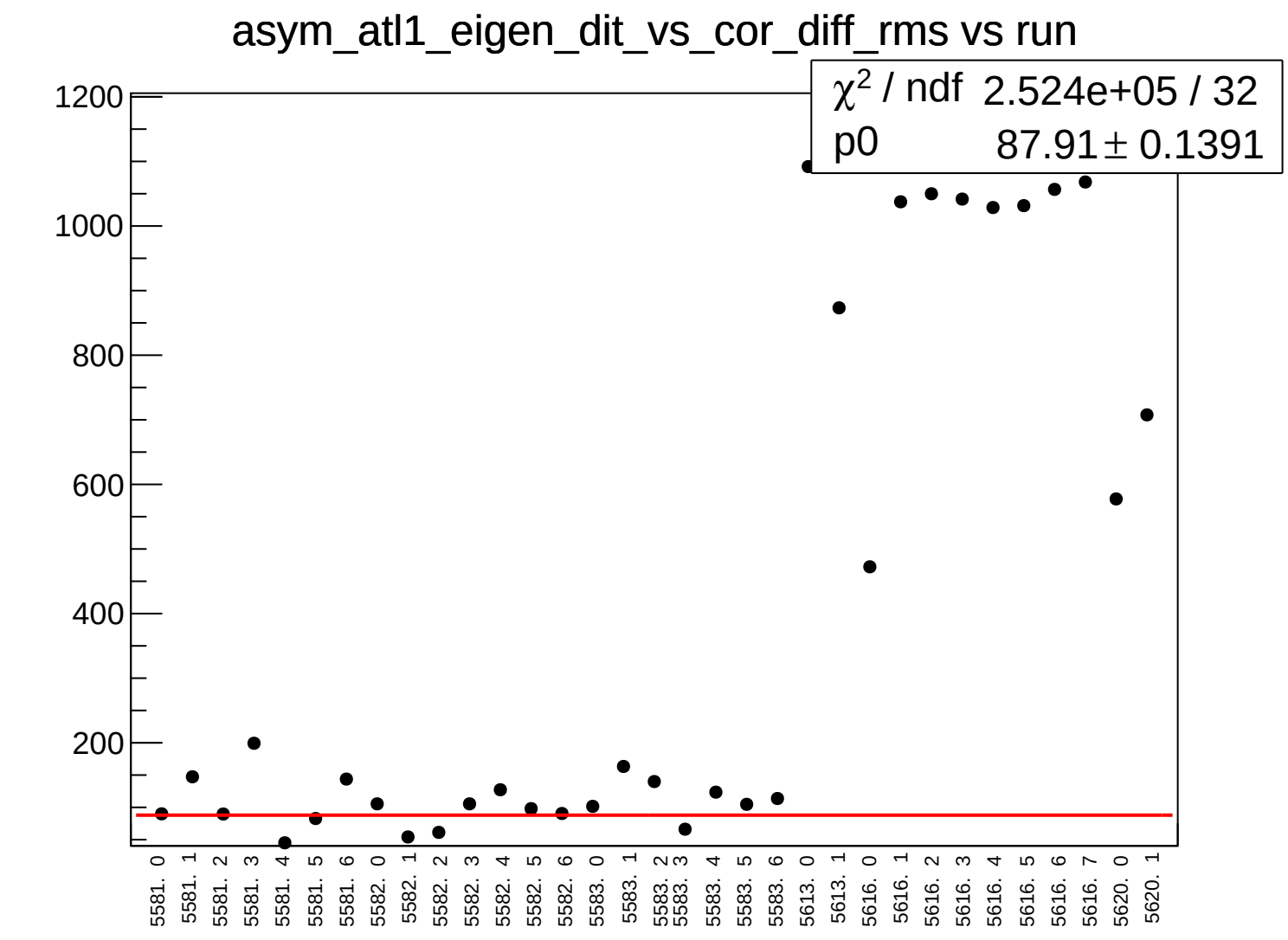

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.524e+05 / 32
p0 87.92 ± 0.1391
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

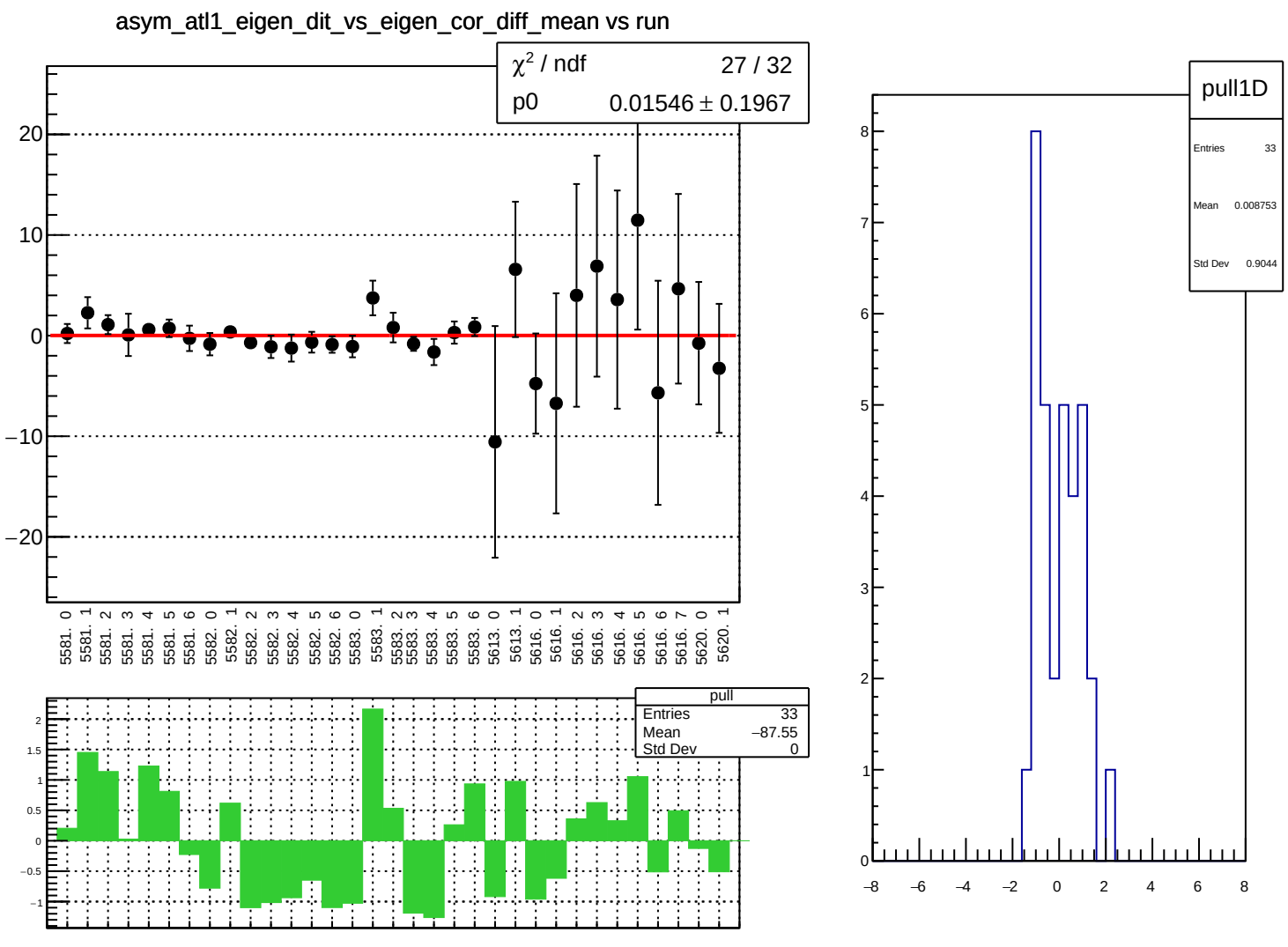

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.3 / 32
p0 −5.594e−06 ± 5.755e−06
0.1
0.05
0
−0.05
−0.1
−0.15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 101.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

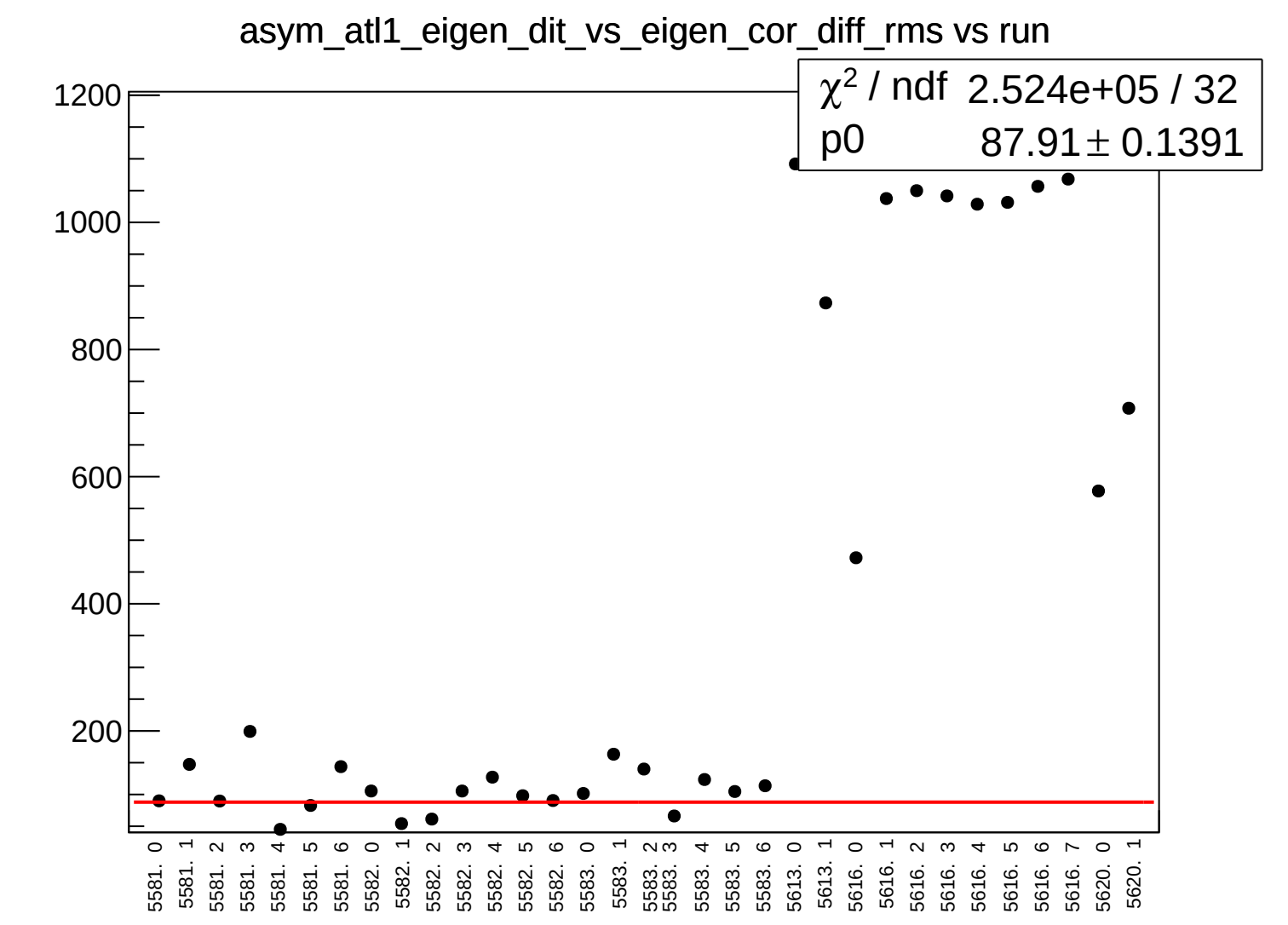

pull1D
Entries 33
Mean −0.01238
Std Dev 1.004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

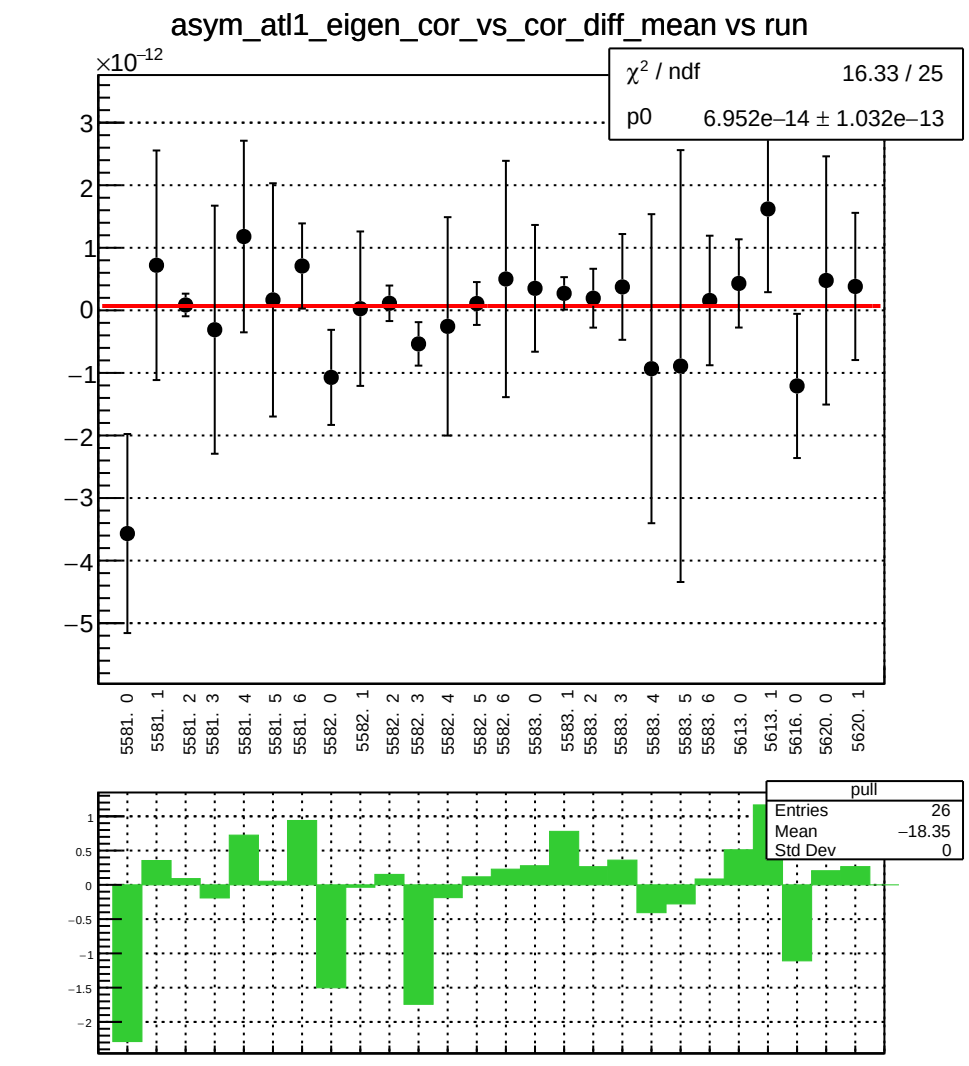

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.673e+04 / 32
p0 0.003139 ± 4.069e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

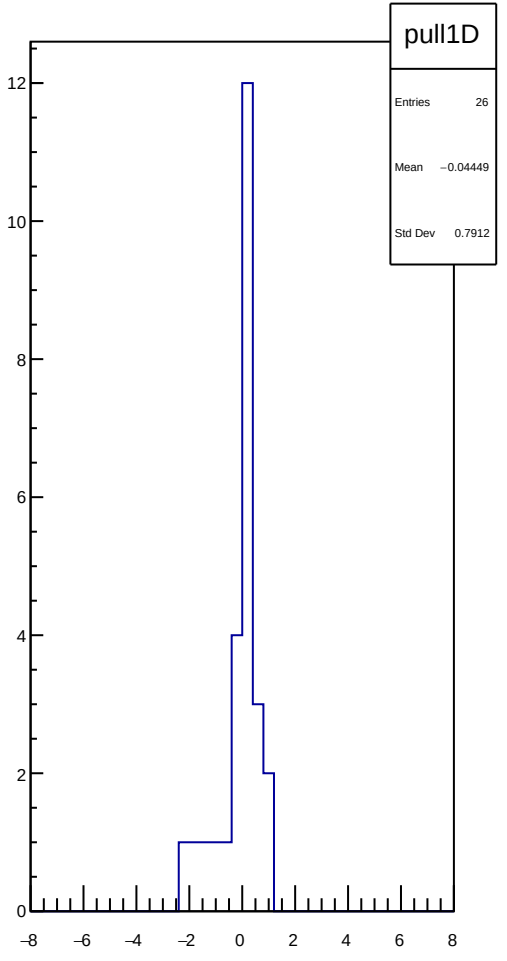

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27 / 32
p0 0.01546 ± 0.1967
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −87.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.008753
Std Dev 0.9044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

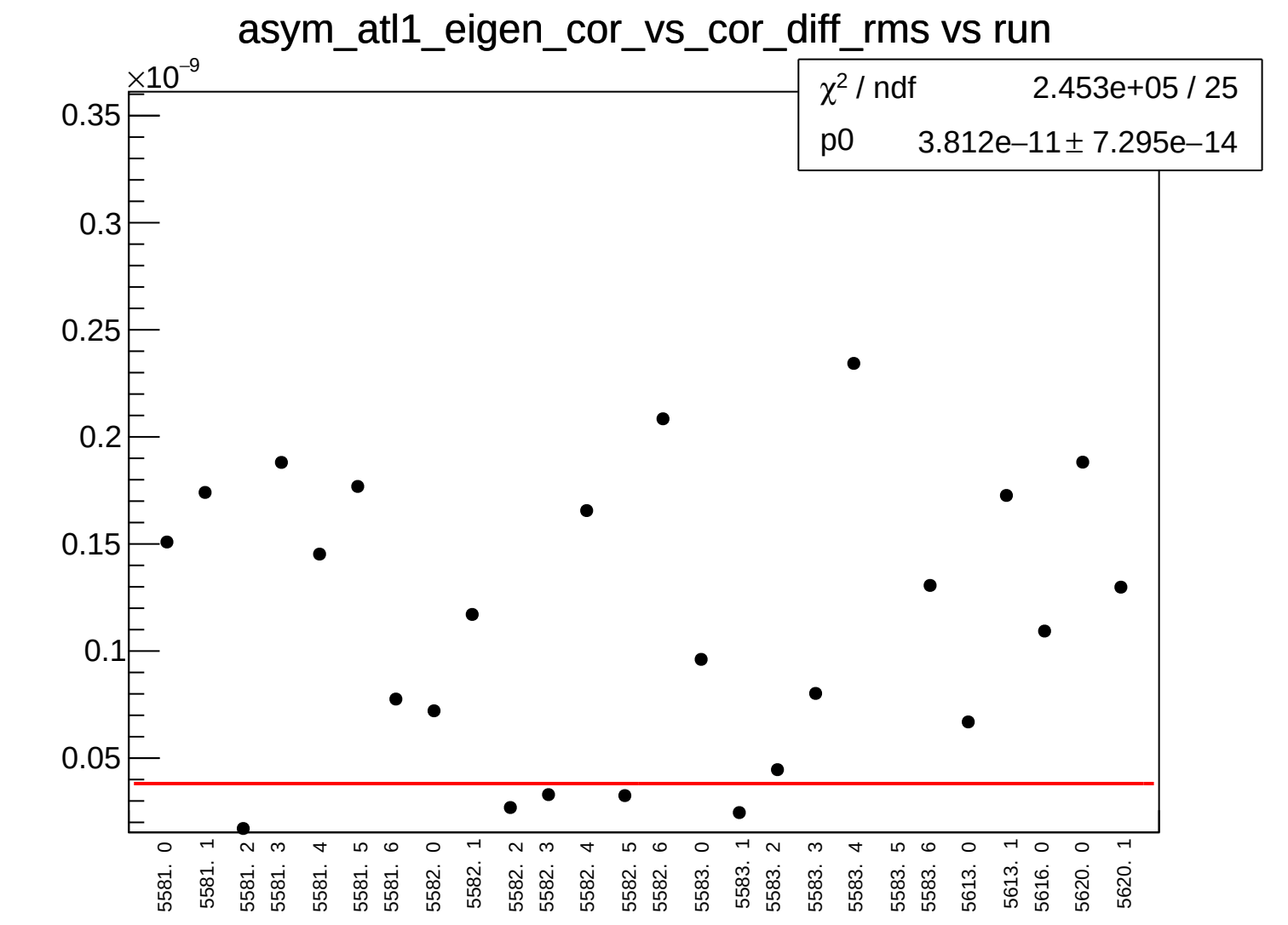

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.524e+05 / 32
p0 87.91 ± 0.1391
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

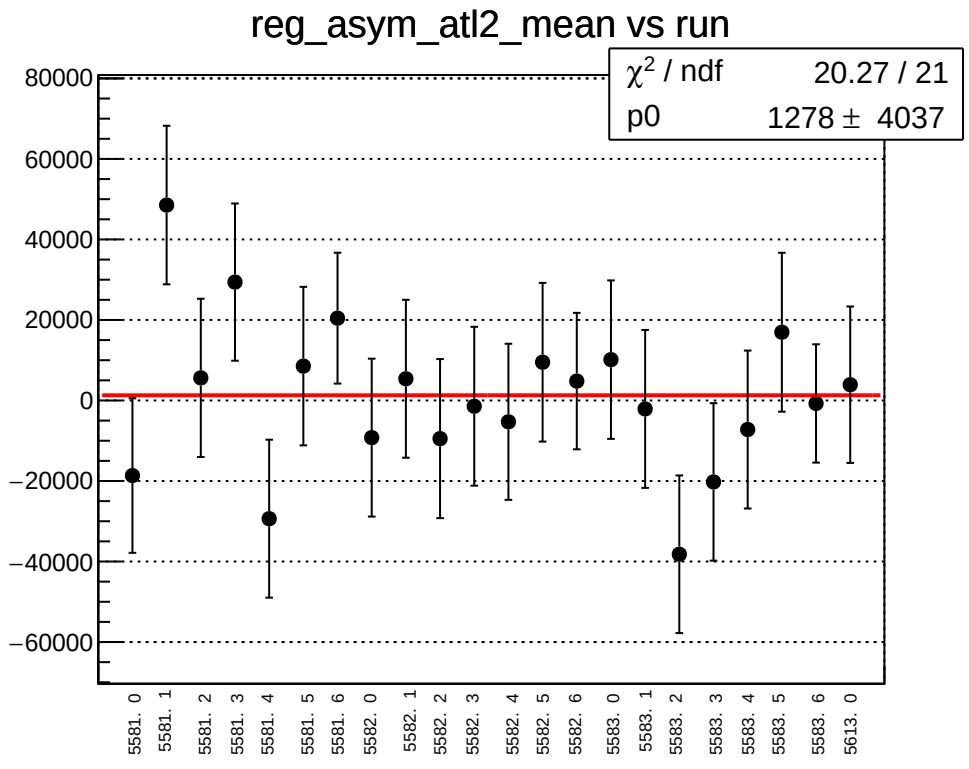

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27 / 32
p0 0.01546 ± 0.1967
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −87.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.008753
Std Dev 0.9044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

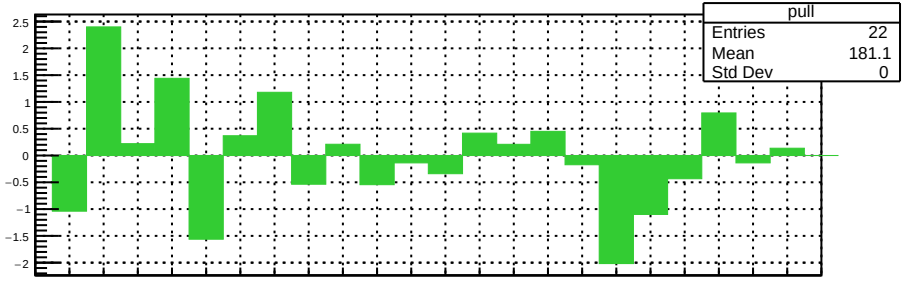

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.524e+05 / 32
p0 87.91 ± 0.1391
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

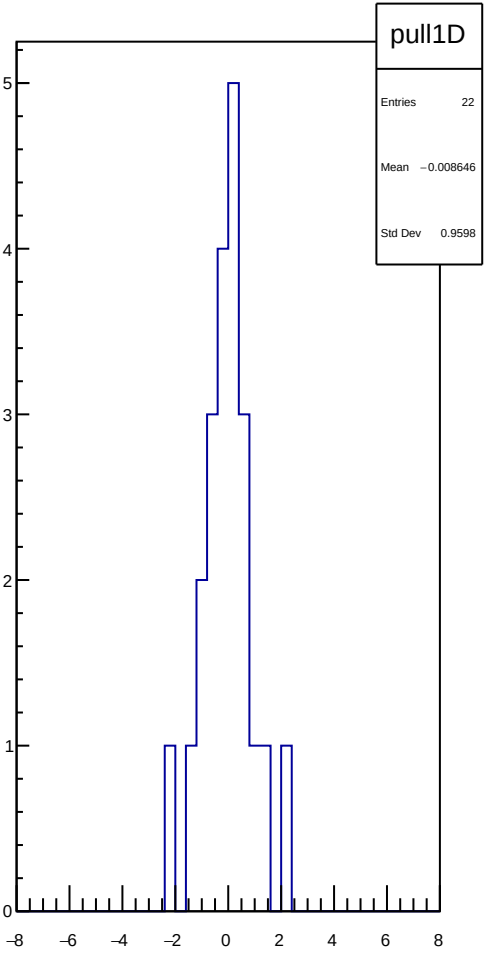

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 16.33 / 25
p0 6.952e−14 ± 1.032e−13
3
2
1
0
−1
−2
−3
−4
−5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −18.35
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

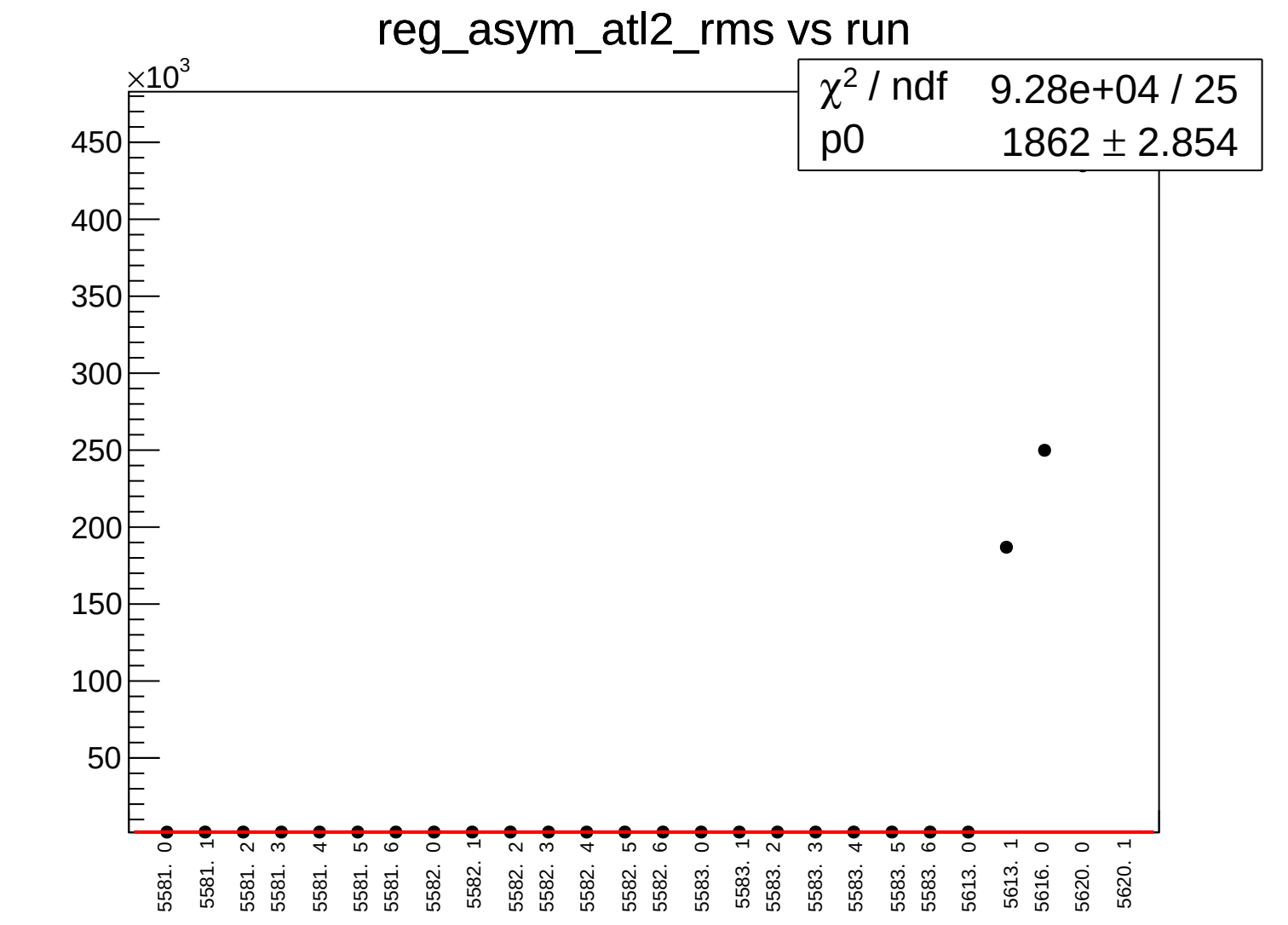

pull1D
Entries 26
Mean −0.04449
Std Dev 0.7912
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

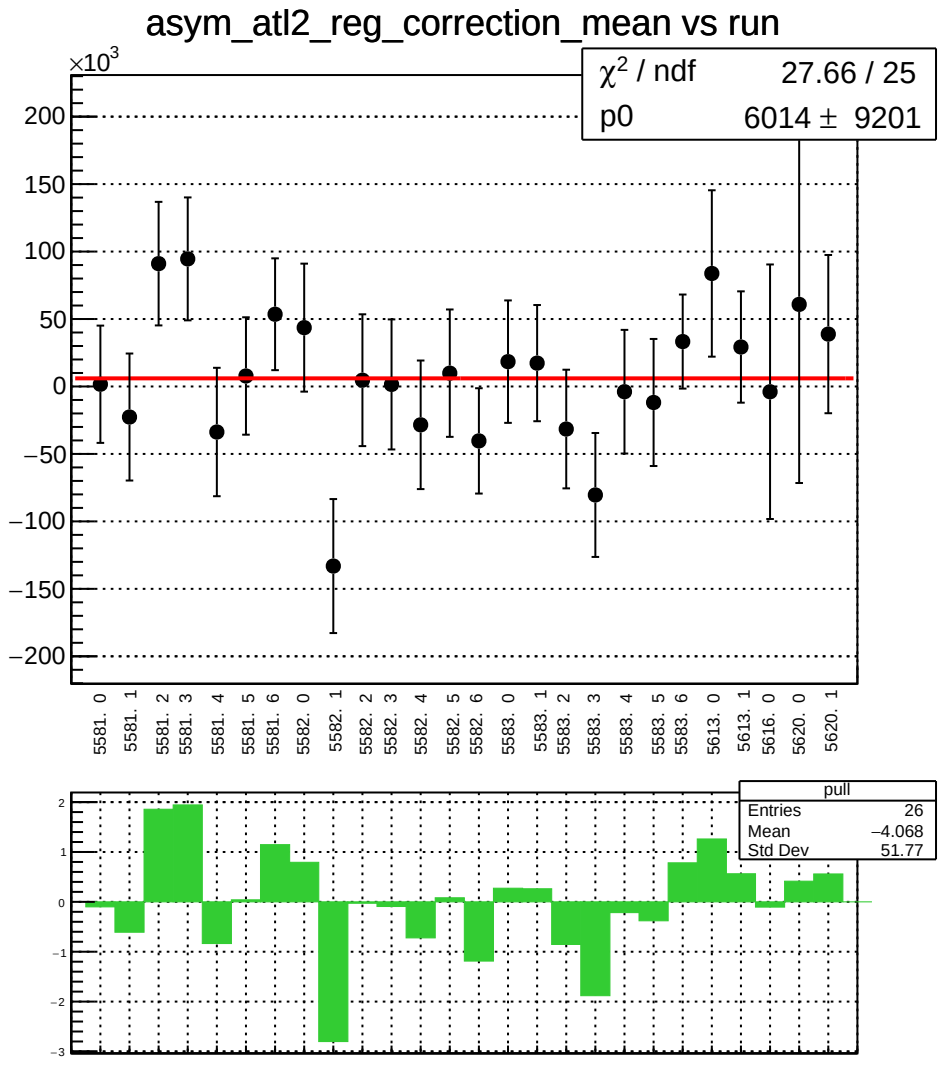

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.453e+05 / 25
p0 3.812e−11 ± 7.295e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

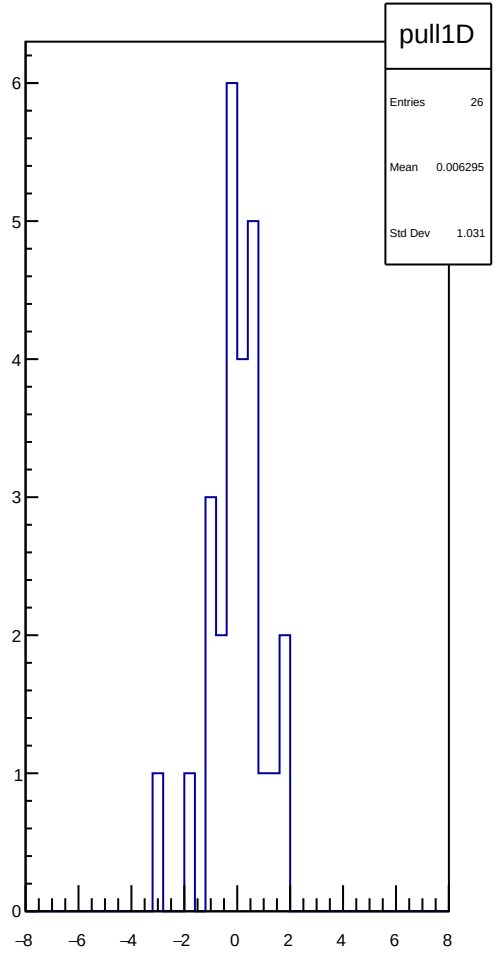

reg_asym_atl2_mean vs run
χ² / ndf 20.27 / 21
p0 1278 ± 4037
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

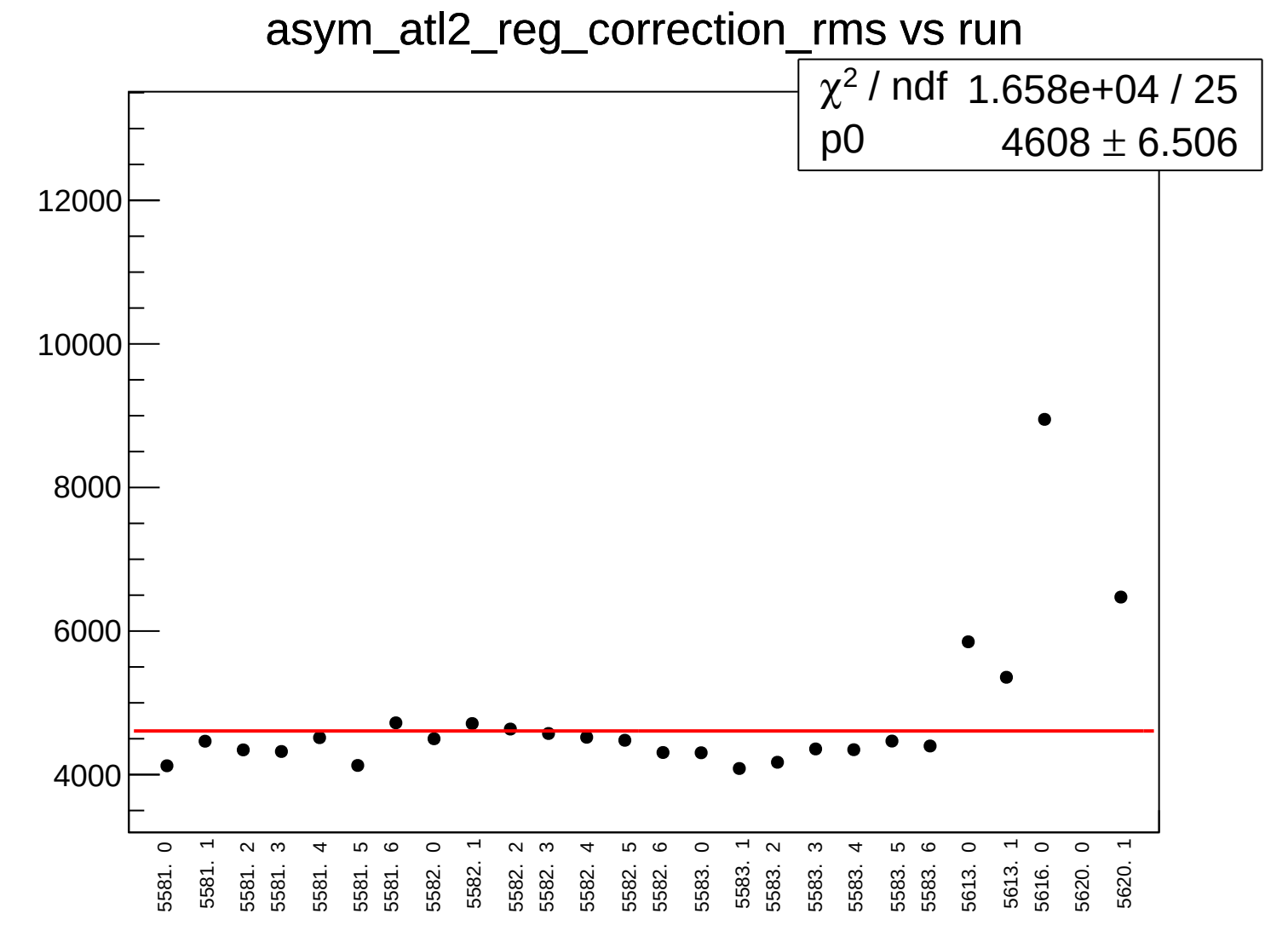

pull
Entries 22
Mean 181.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

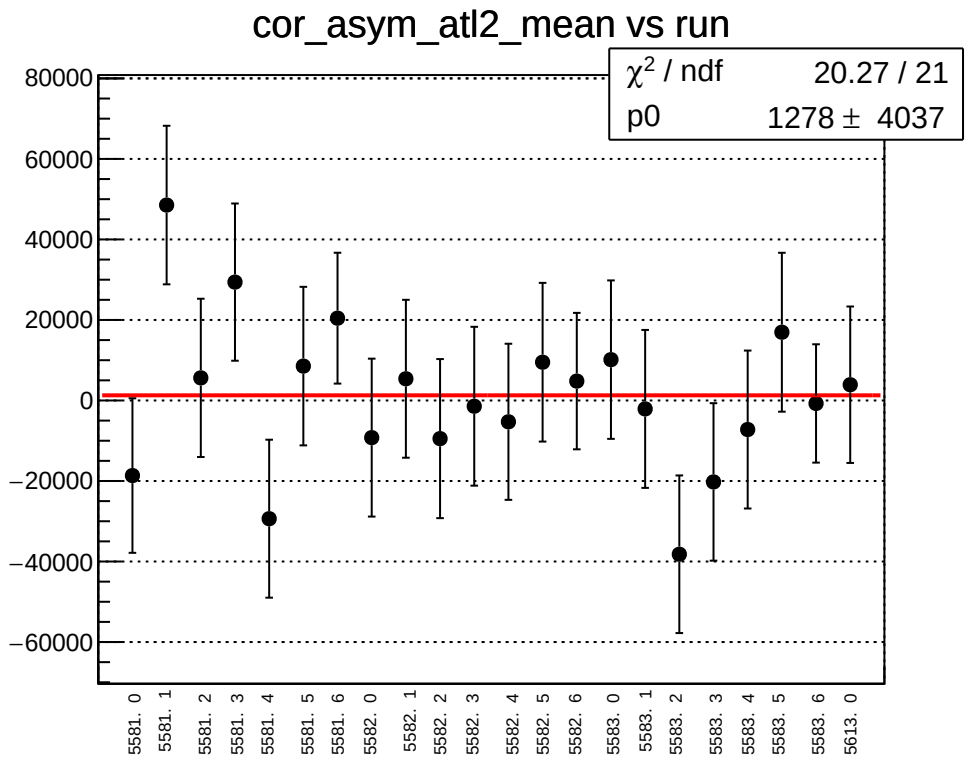

pull1D
Entries 22
Mean −0.008646
Std Dev 0.9598
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

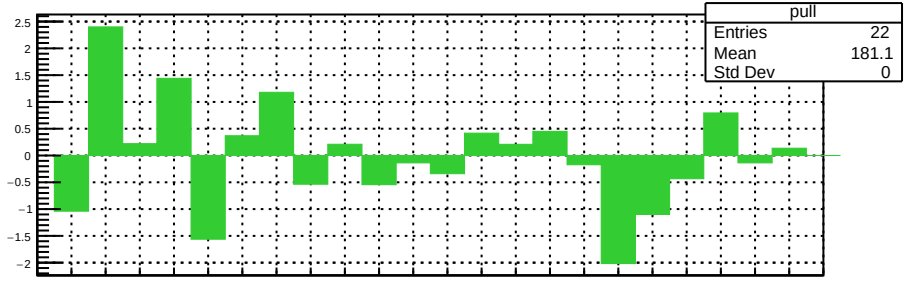

reg_asym_atl2_rms vs run
×10^3
χ^2 / ndf 9.28e+04 / 25
p0 1862 ± 2.854
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

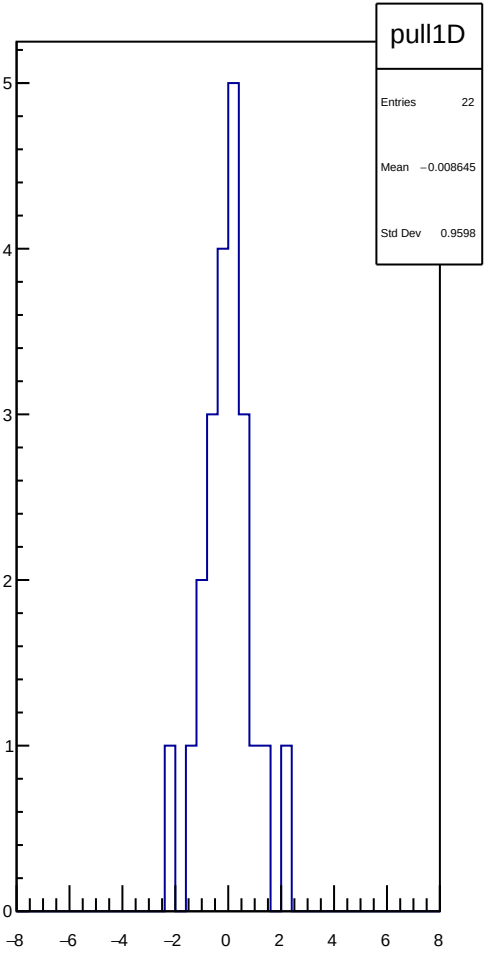

asym_atl2_reg_correction_mean vs run
×10^3
χ^2 / ndf 27.66 / 25
p0 6014 ± 9201
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −4.068
Std Dev 51.77
2
1
0
−1
−2
−3

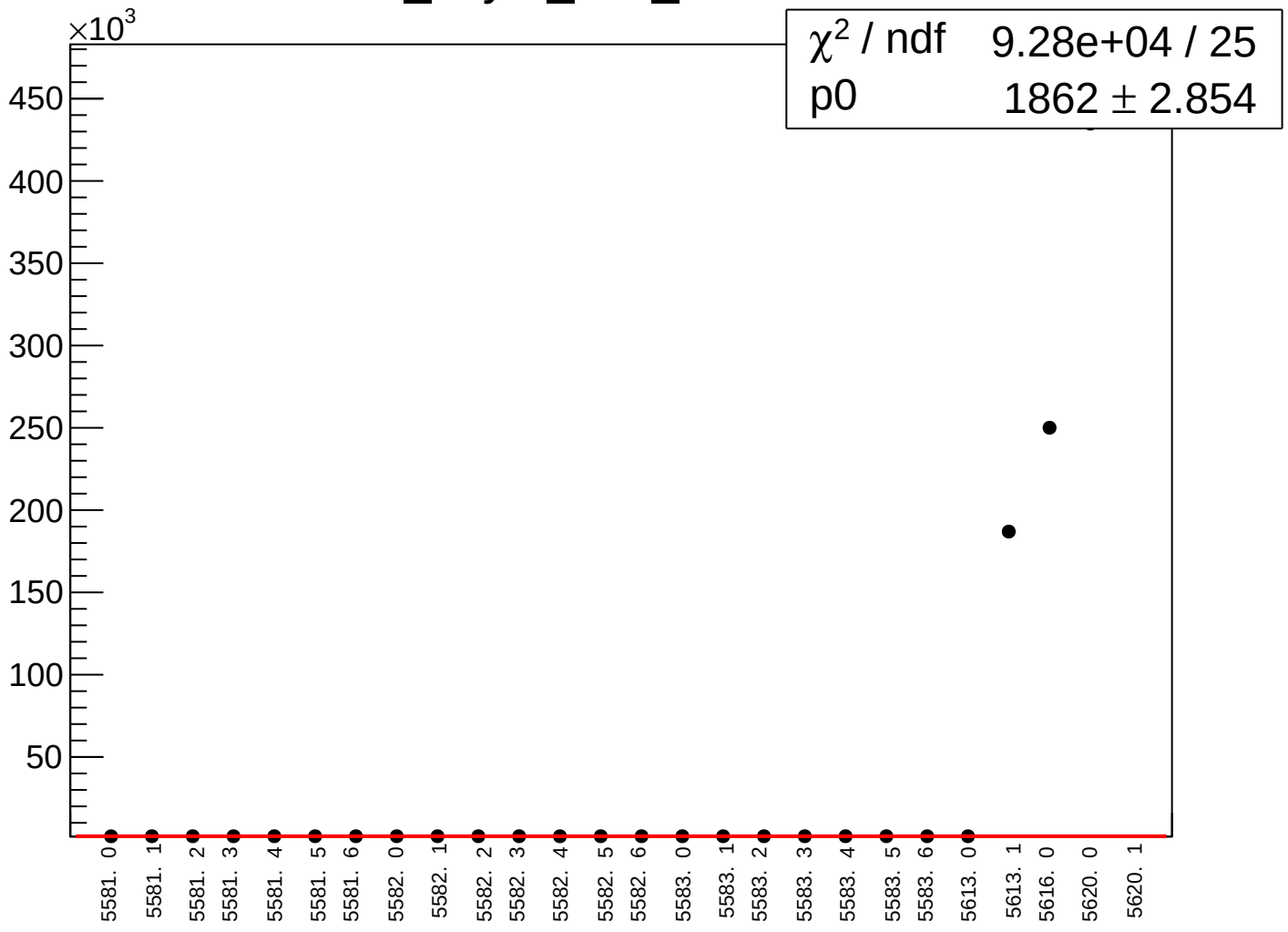

pull1D
Entries 26
Mean 0.006295
Std Dev 1.031
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

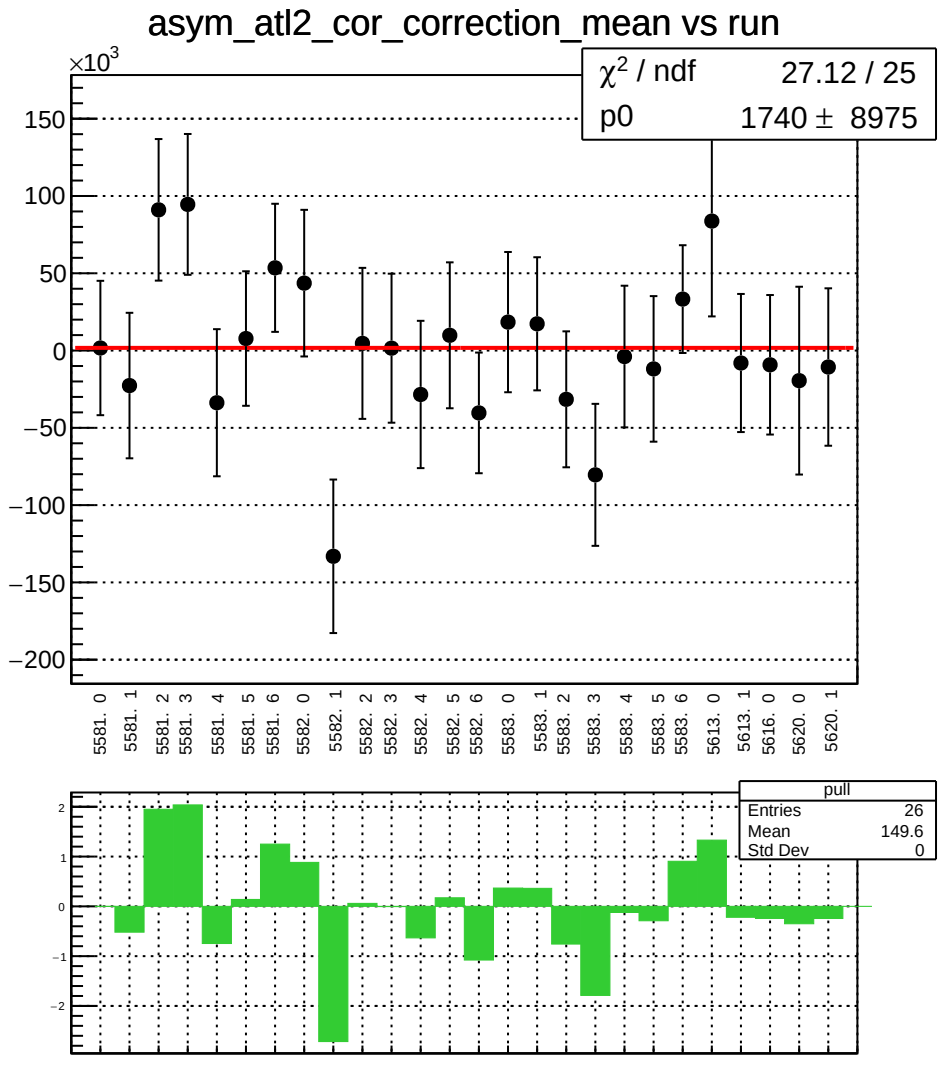

asym_atl2_reg_correction_rms vs run
χ² / ndf 1.658e+04 / 25
p0 4608 ± 6.506
12000
10000
8000
6000
4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

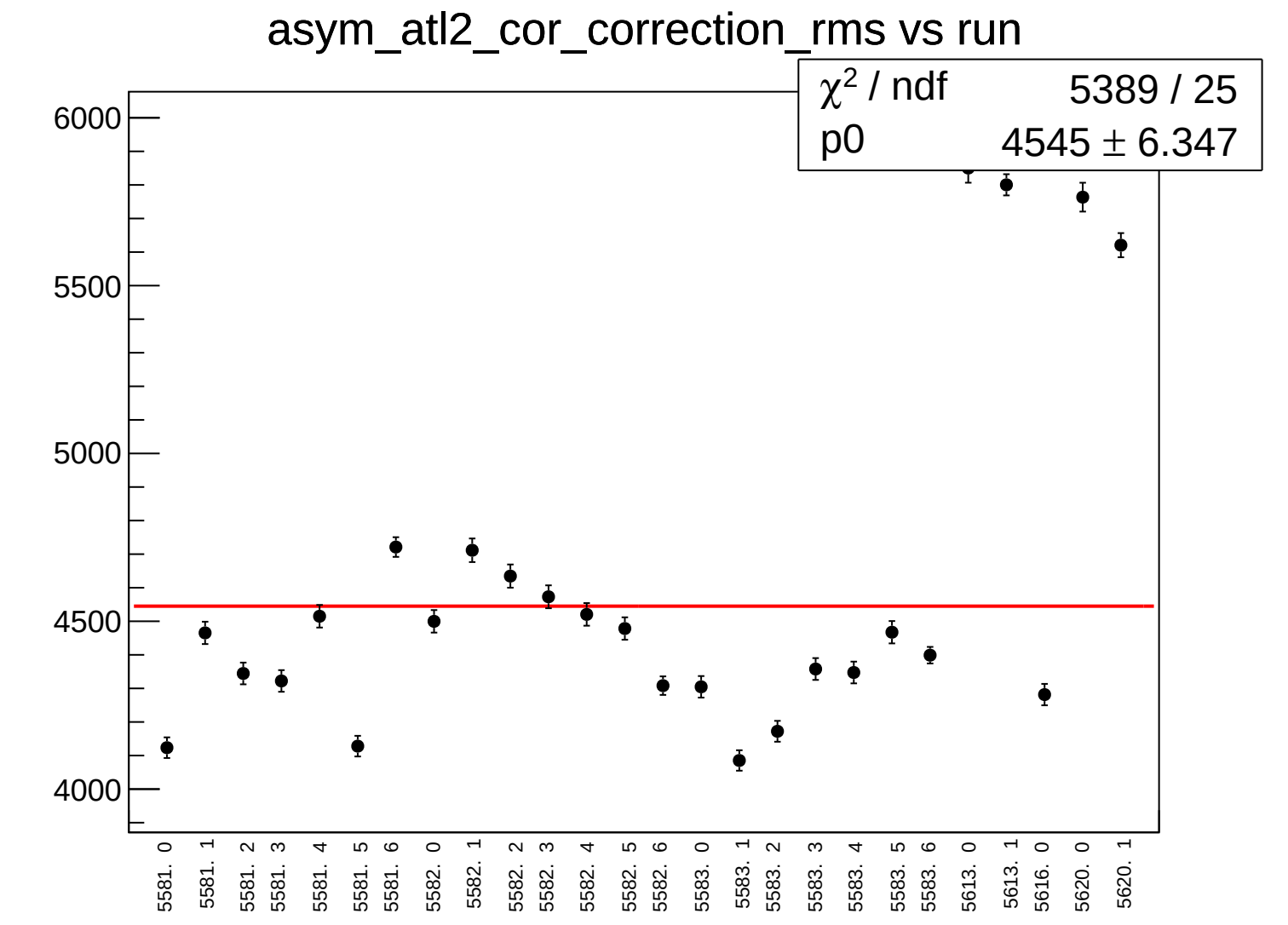

cor_asym_atl2_mean vs run
χ² / ndf 20.27 / 21
p0 1278 ± 4037
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

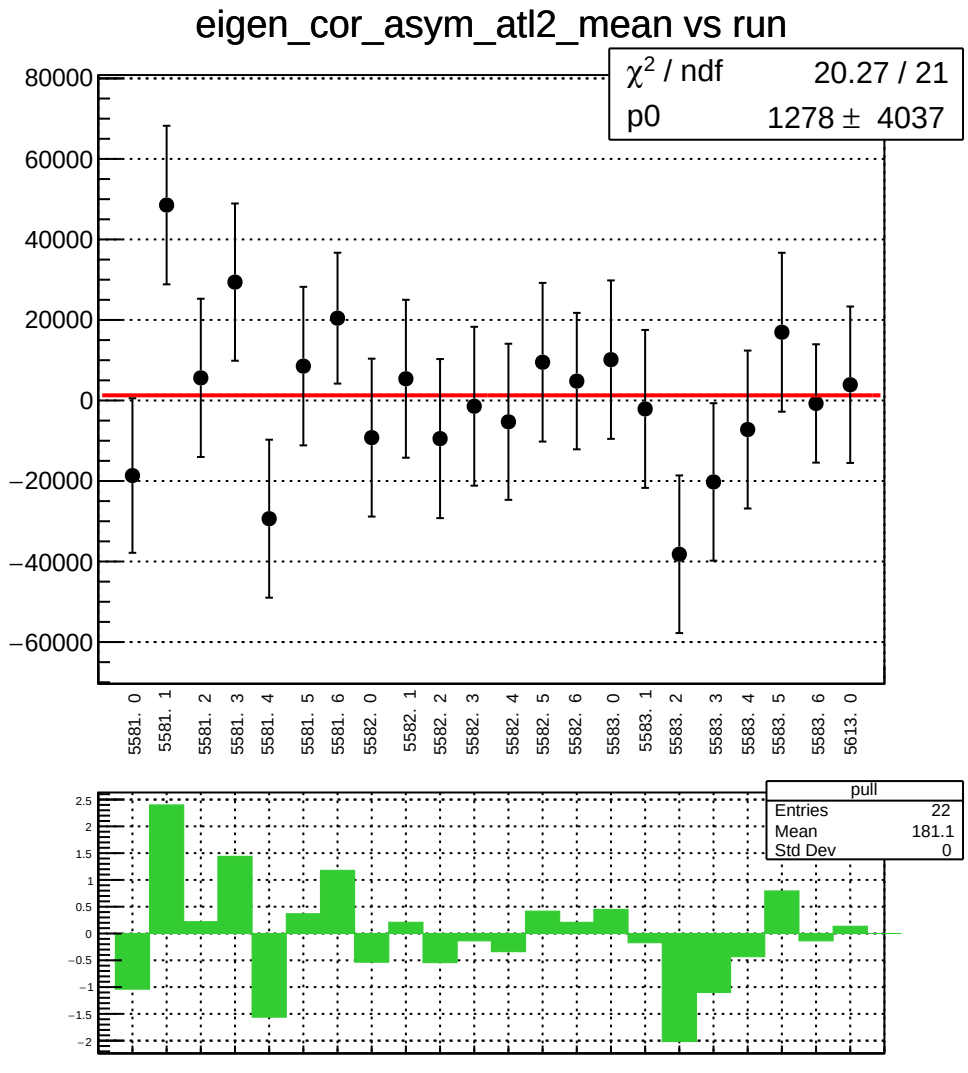

pull
Entries 22
Mean 181.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

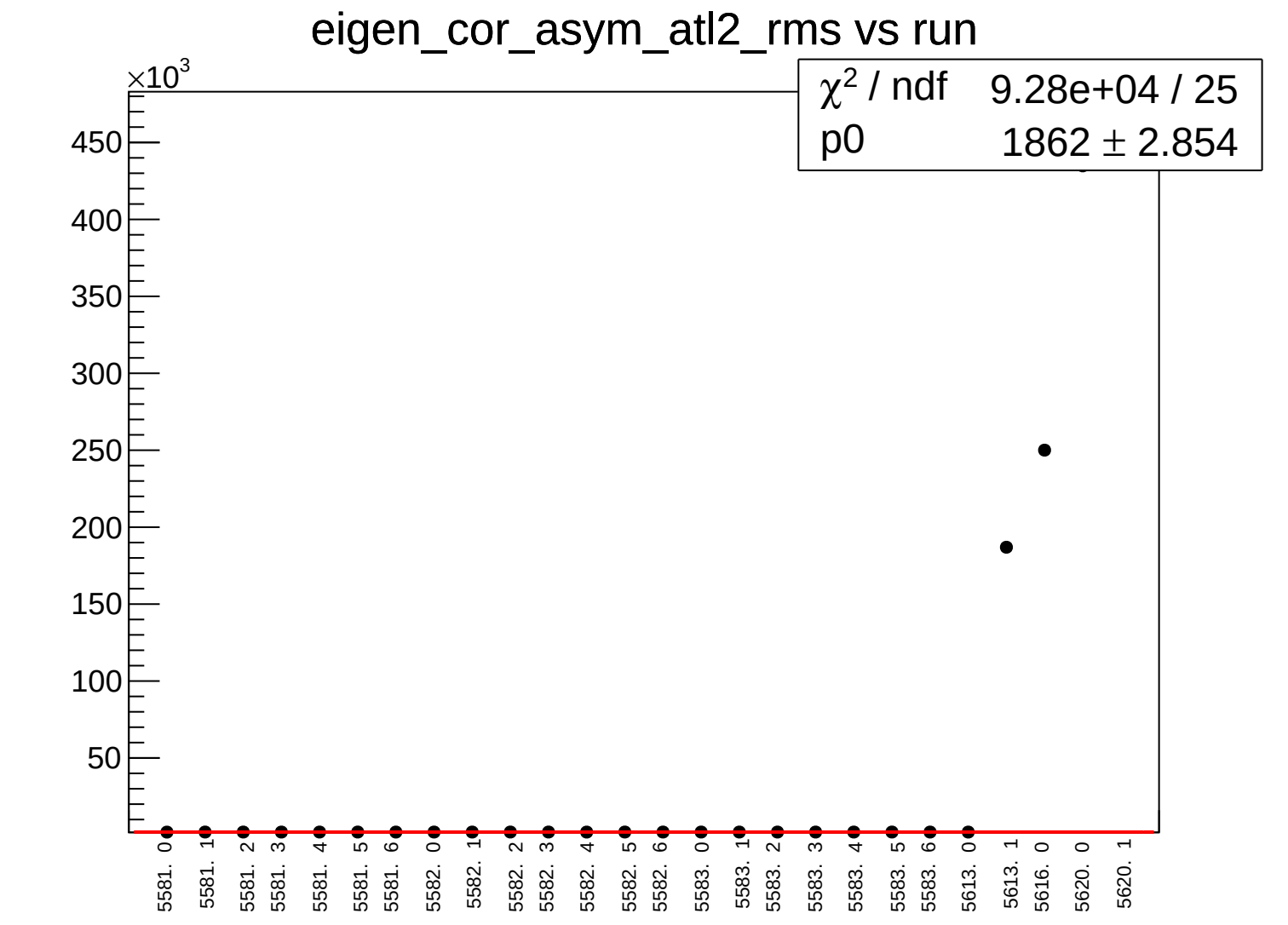

pull1D
Entries 22
Mean −0.008645
Std Dev 0.9598
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

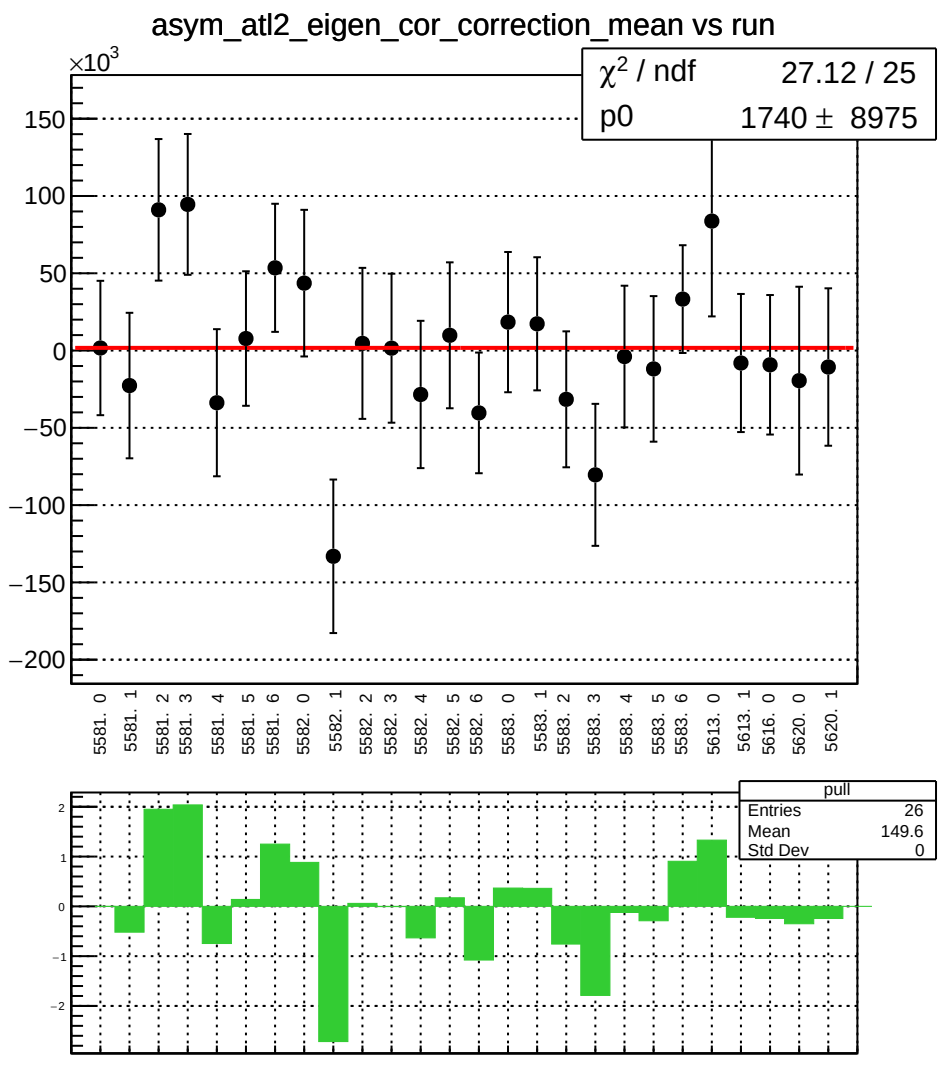

cor_asym_atl2_rms vs run
×10^3
χ^2 / ndf 9.28e+04 / 25
p0 1862 ± 2.854
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

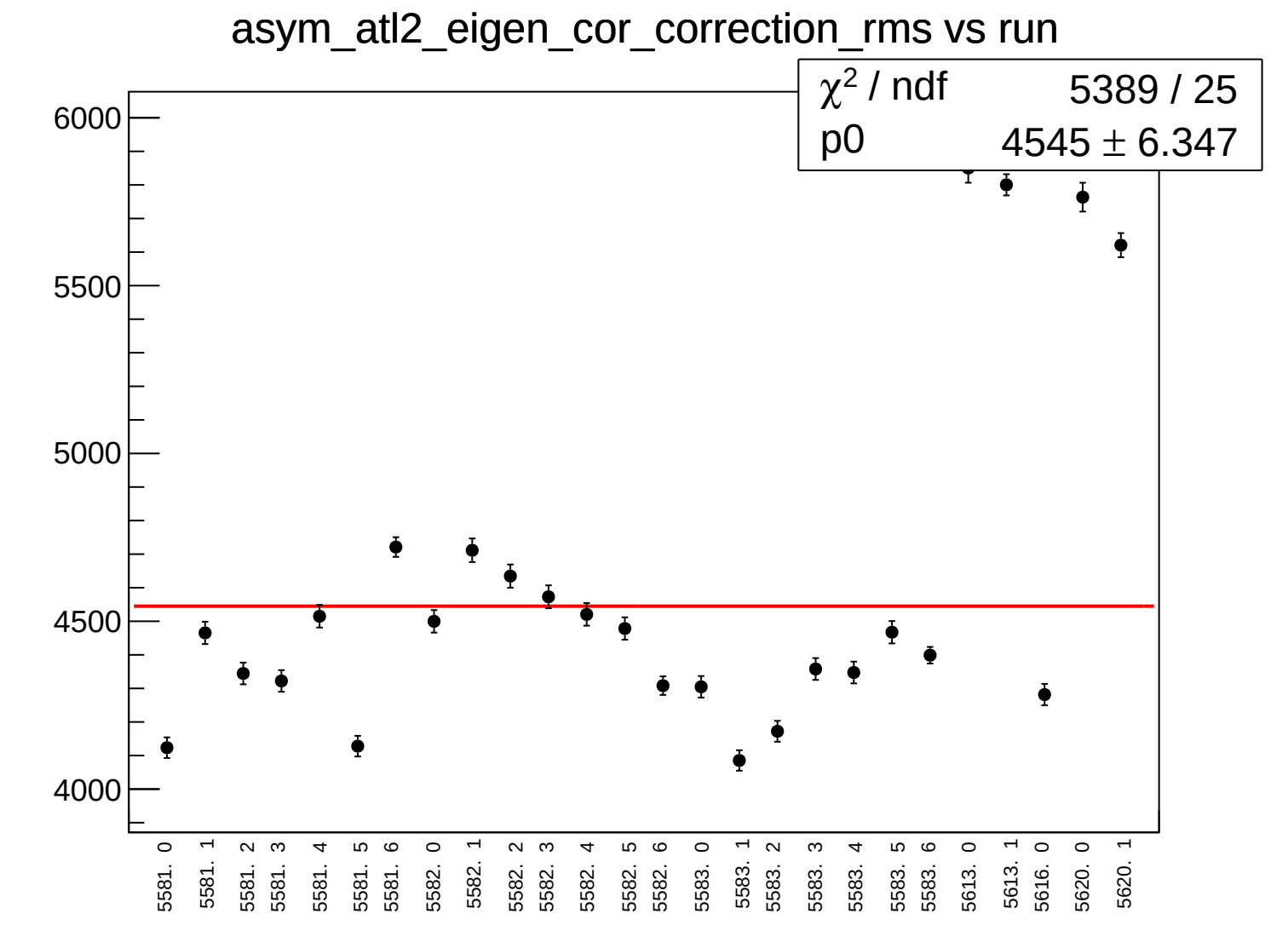

asym_atl2_cor_correction_mean vs run
×10^3
χ^2 / ndf 27.12 / 25
p0 1740 ± 8975
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 149.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 26
Mean −0.009735
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

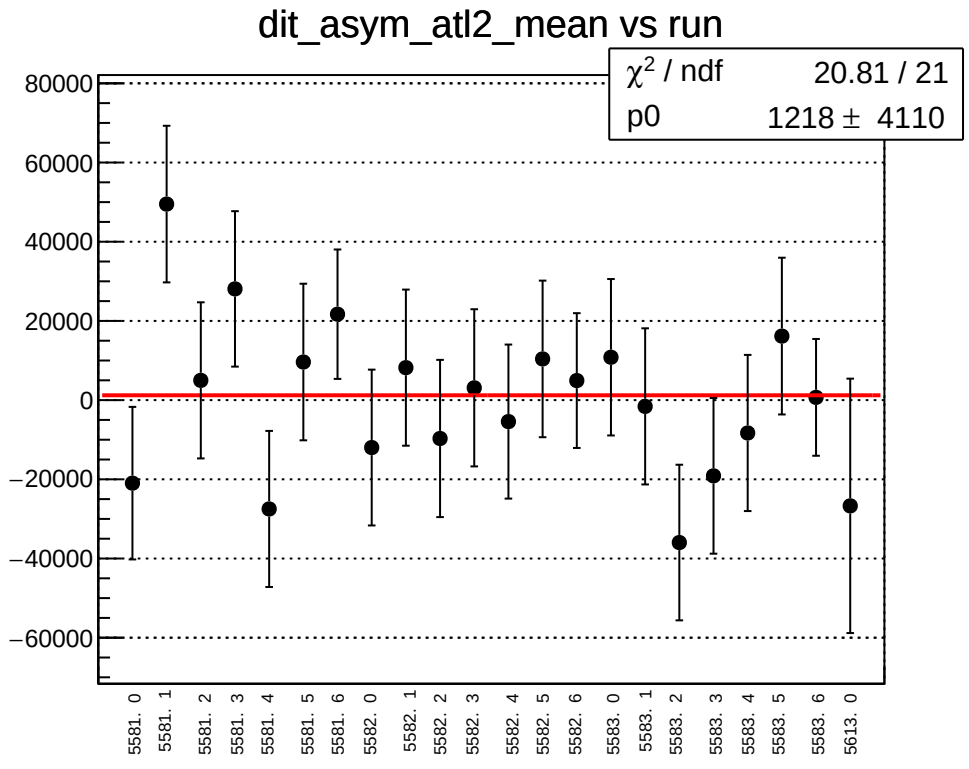

asym_atl2_cor_correction_rms vs run
χ² / ndf 5389 / 25
p0 4545 ± 6.347
6000
5500
5000
4500
4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

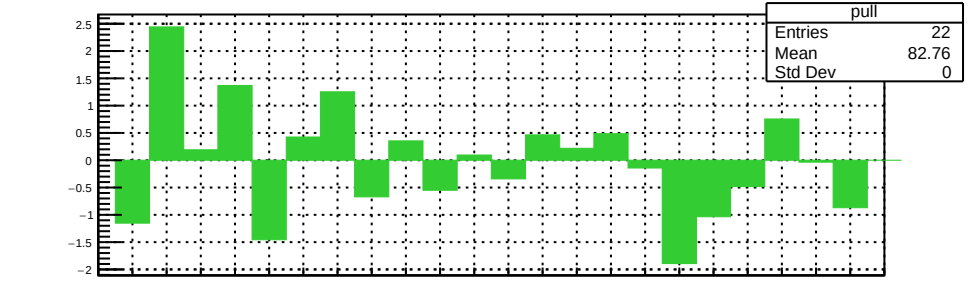

eigen_cor_asym_atl2_mean vs run
χ² / ndf 20.27 / 21
p0 1278 ± 4037
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 181.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 22
Mean −0.008645
Std Dev 0.9598
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

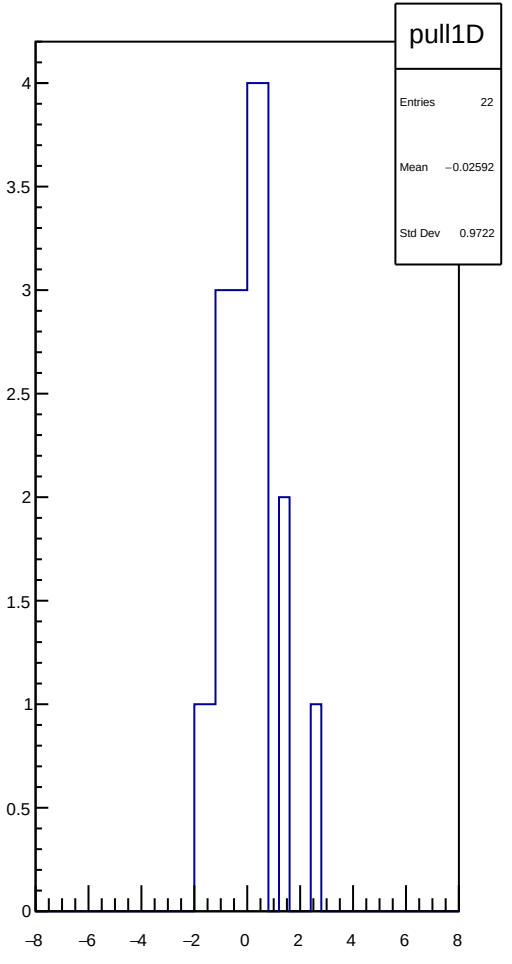

eigen_cor_asym_atl2_rms vs run
×10^3
χ^2 / ndf 9.28e+04 / 25
p0 1862 ± 2.854
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

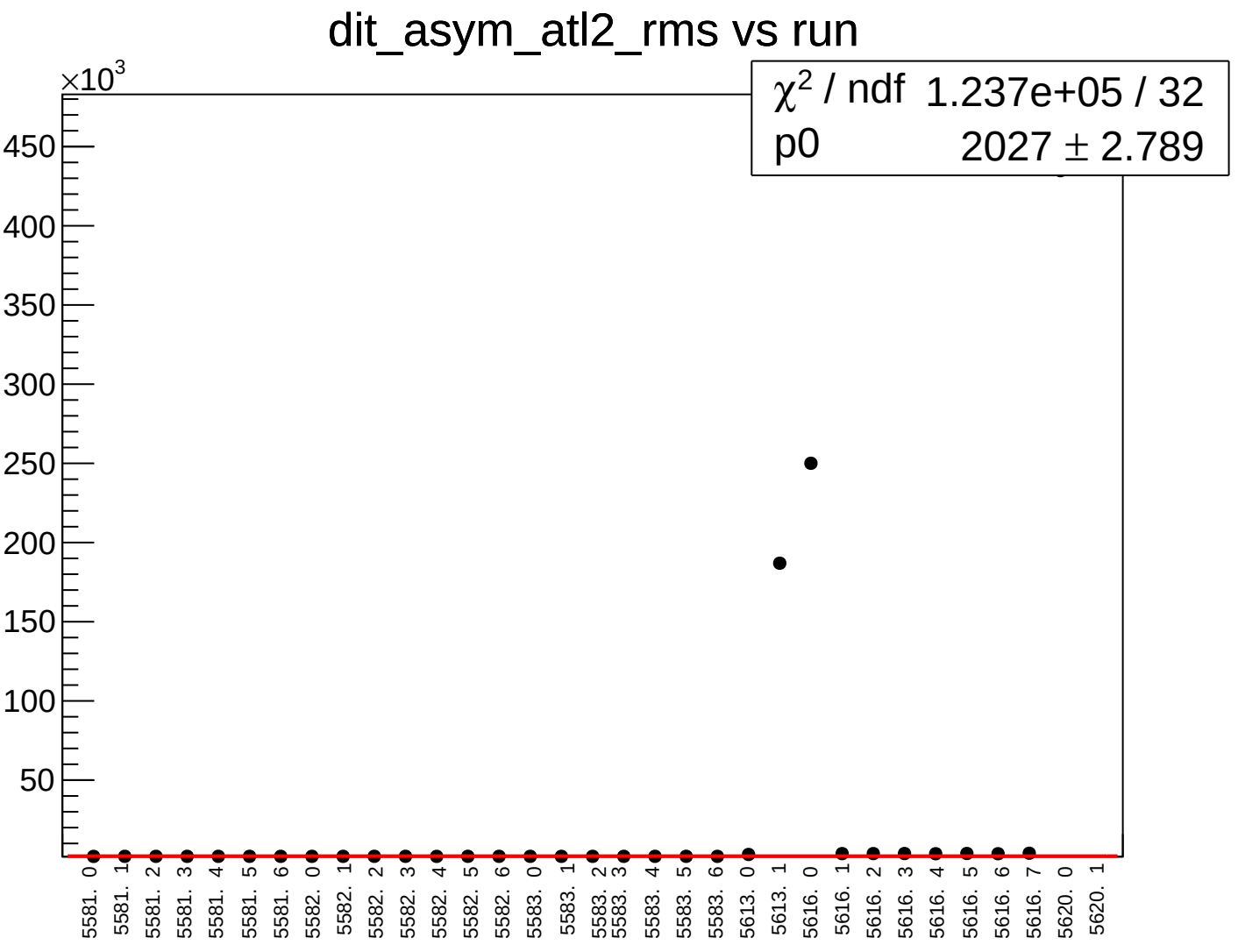

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 27.12 / 25
p0 1740 ± 8975
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 149.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 26
Mean −0.009735
Std Dev 1.021
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

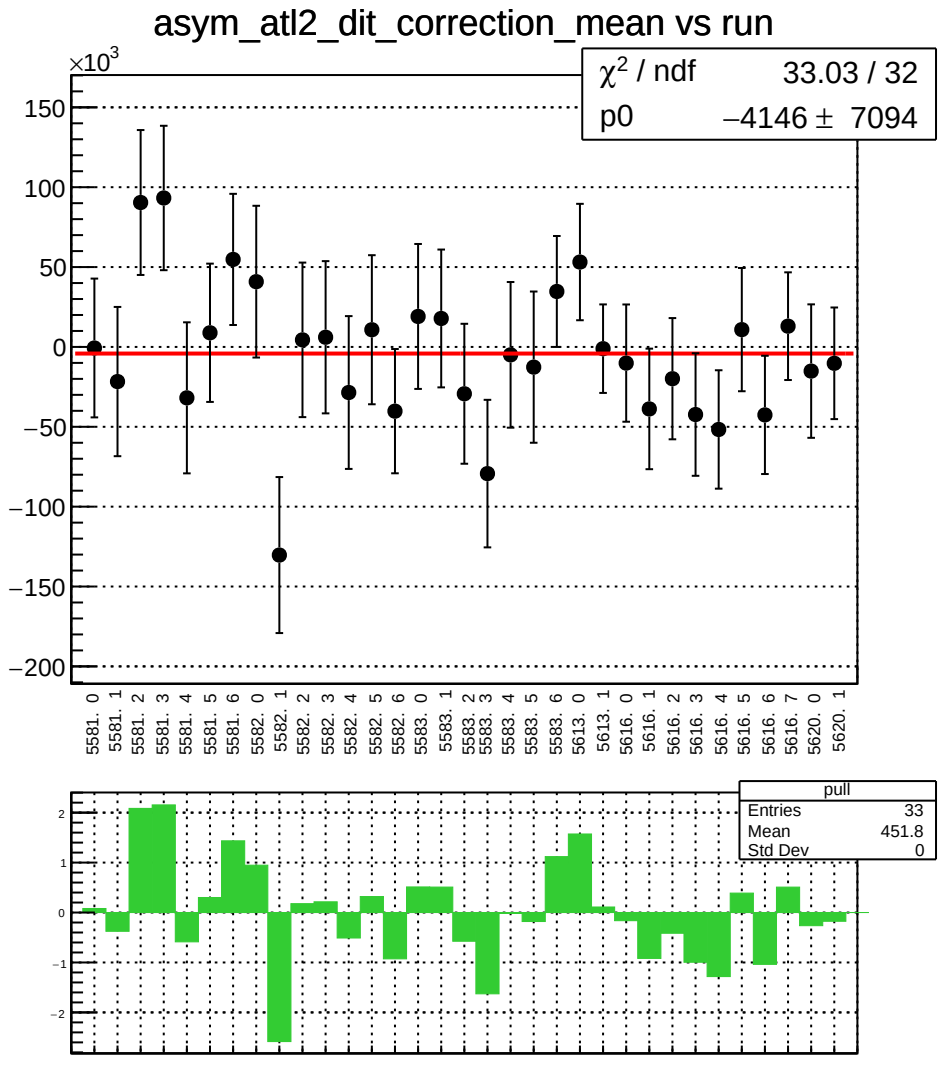

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 5389 / 25
p0 4545 ± 6.347
6000
5500
5000
4500
4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

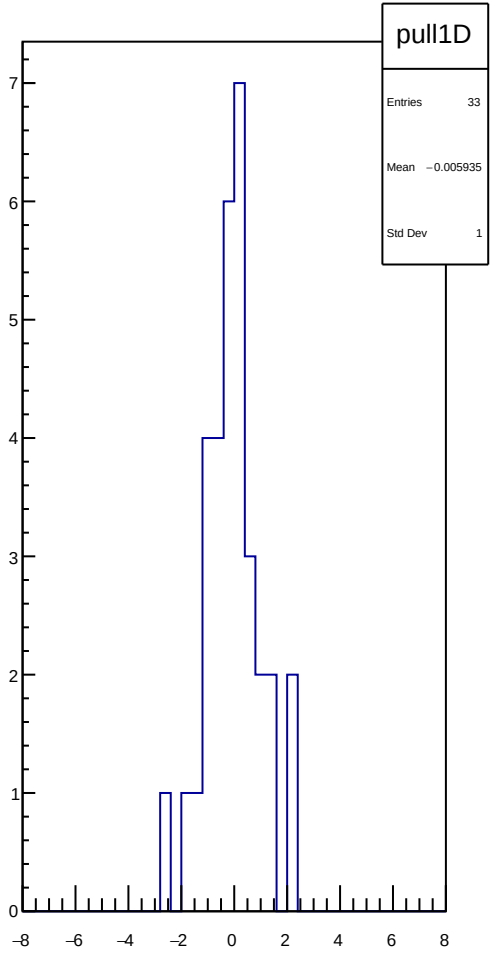

dit_asym_atl2_mean vs run
χ² / ndf 20.81 / 21
p0 1218 ± 4110
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

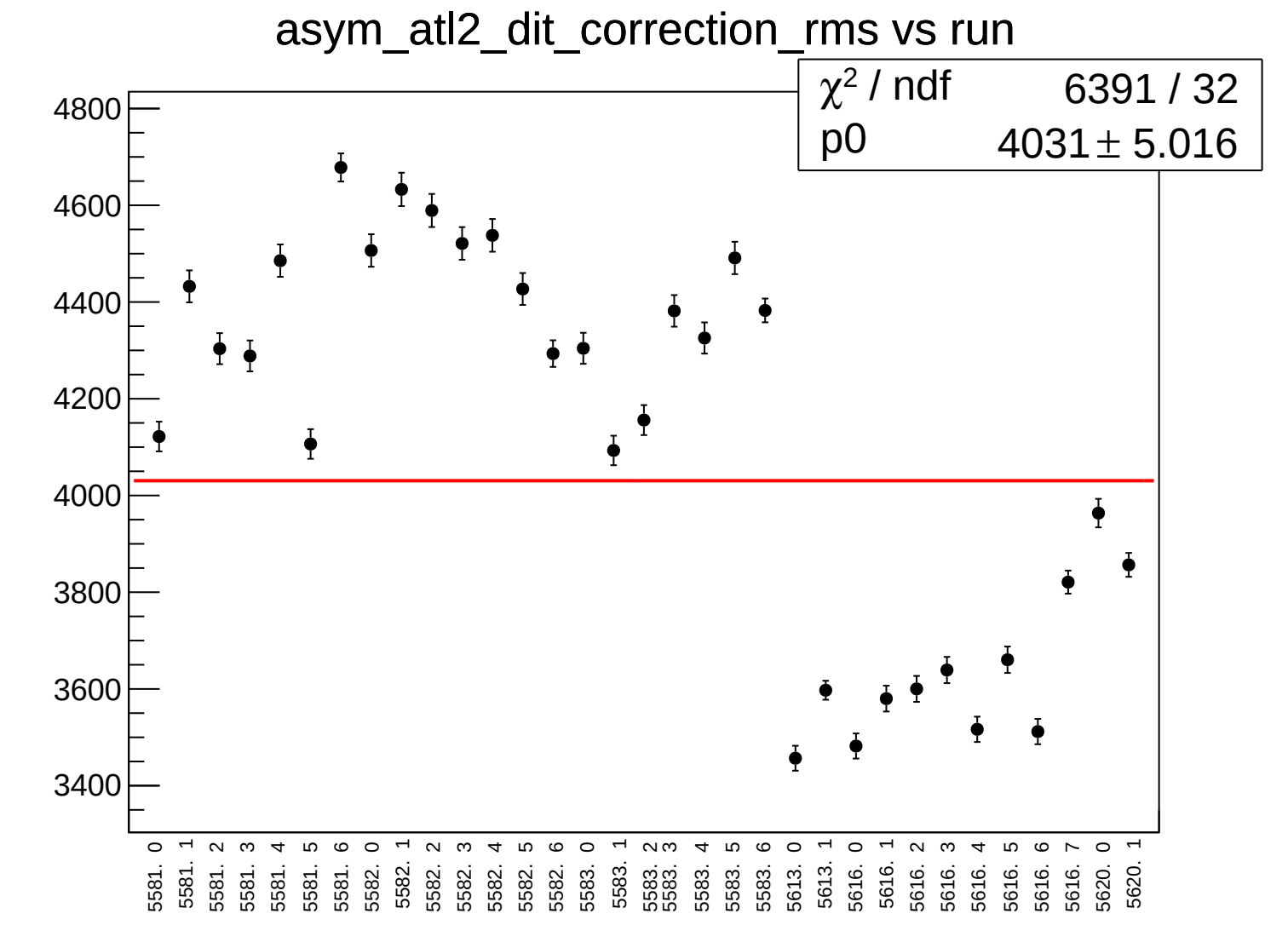

pull
Entries 22
Mean 82.76
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

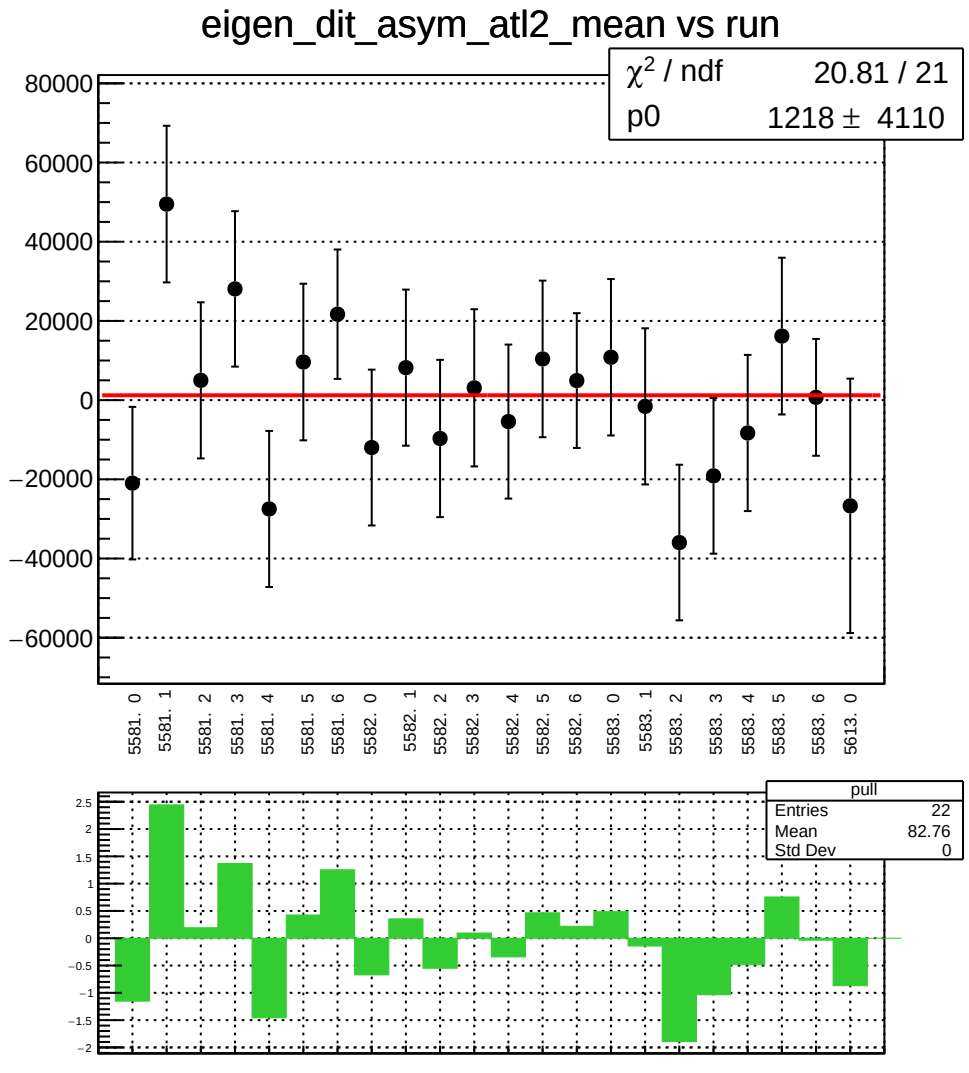

pull1D
Entries 22
Mean −0.02592
Std Dev 0.9722
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

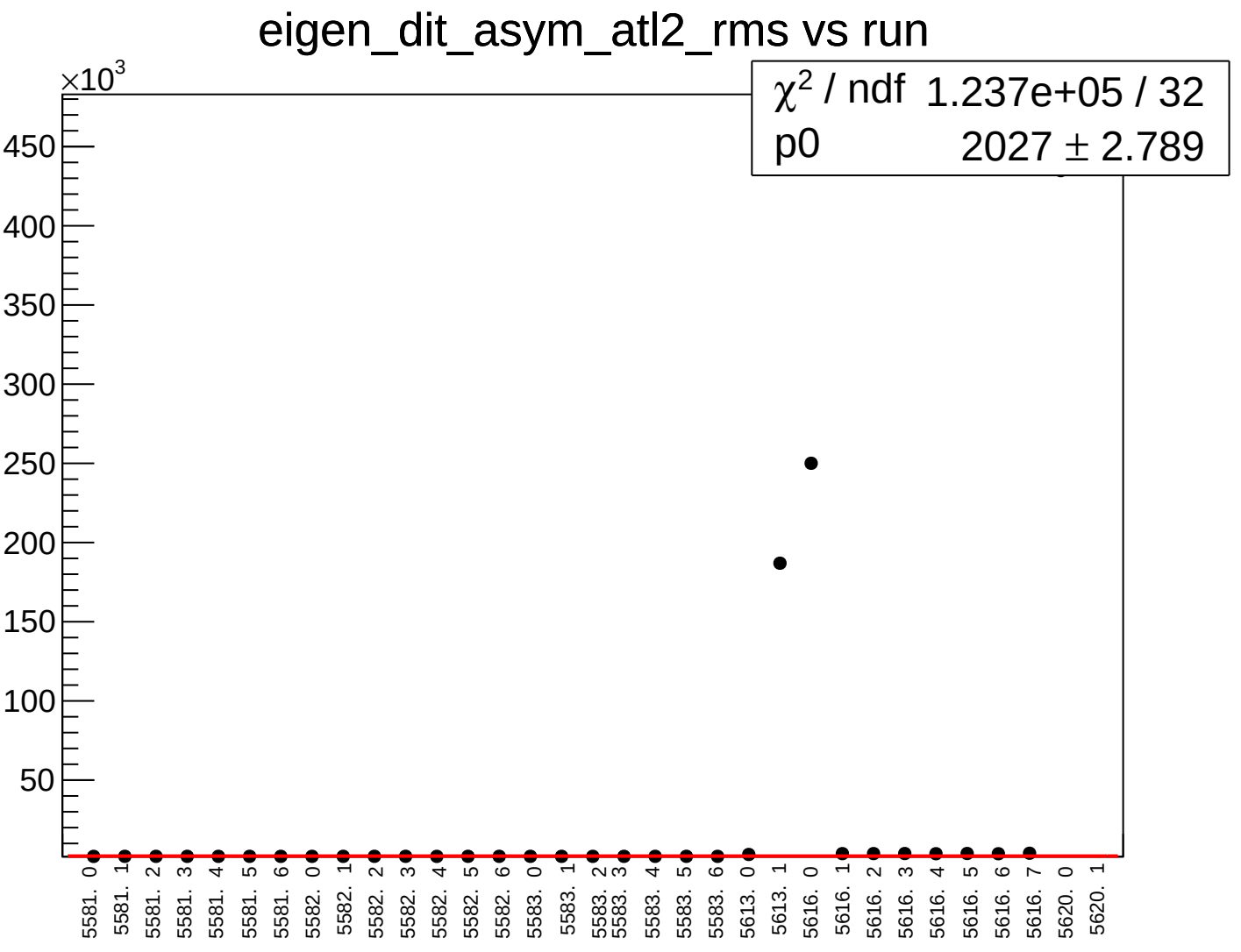

dit_asym_atl2_rms vs run
×10^3
χ^2 / ndf 1.237e+05 / 32
p0 2027 ± 2.789
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

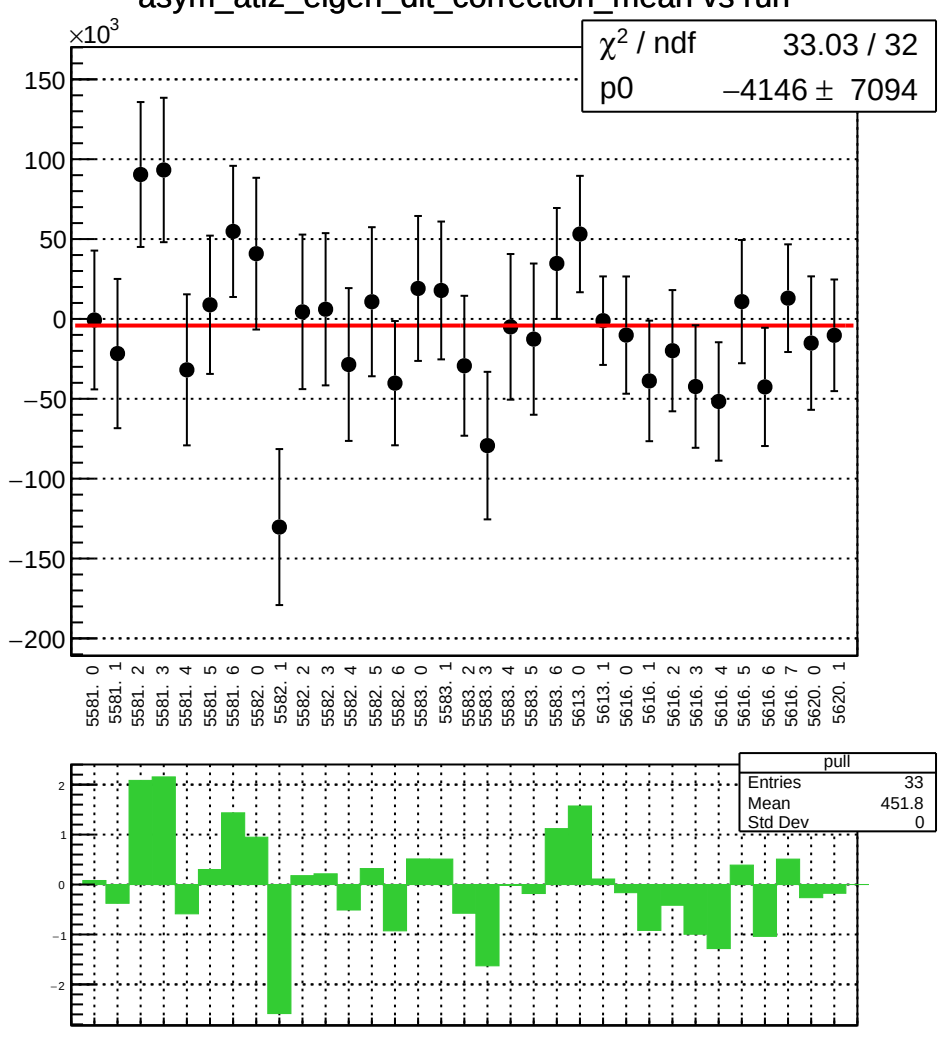

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 33.03 / 32
p0 −4146 ± 7094
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 451.8
Std Dev 0
2
1
0
−1
−2

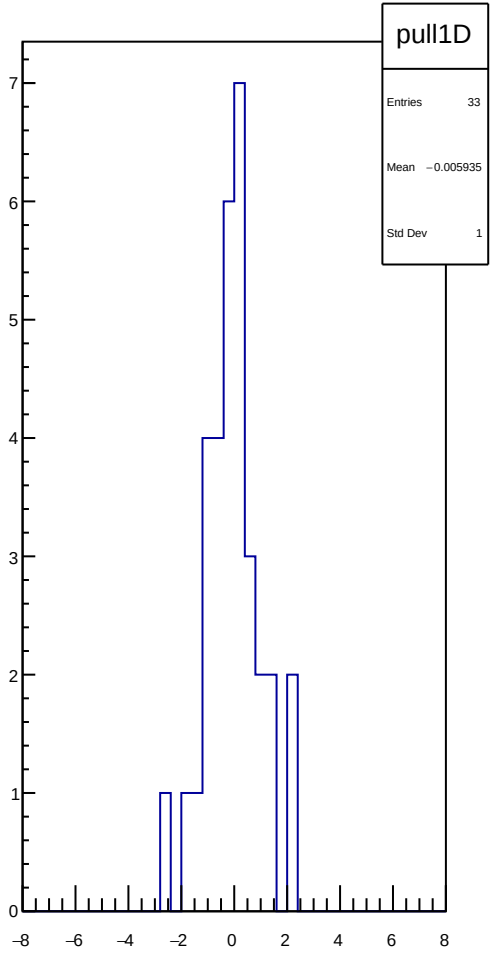

pull1D
Entries 33
Mean −0.005935
Std Dev 1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

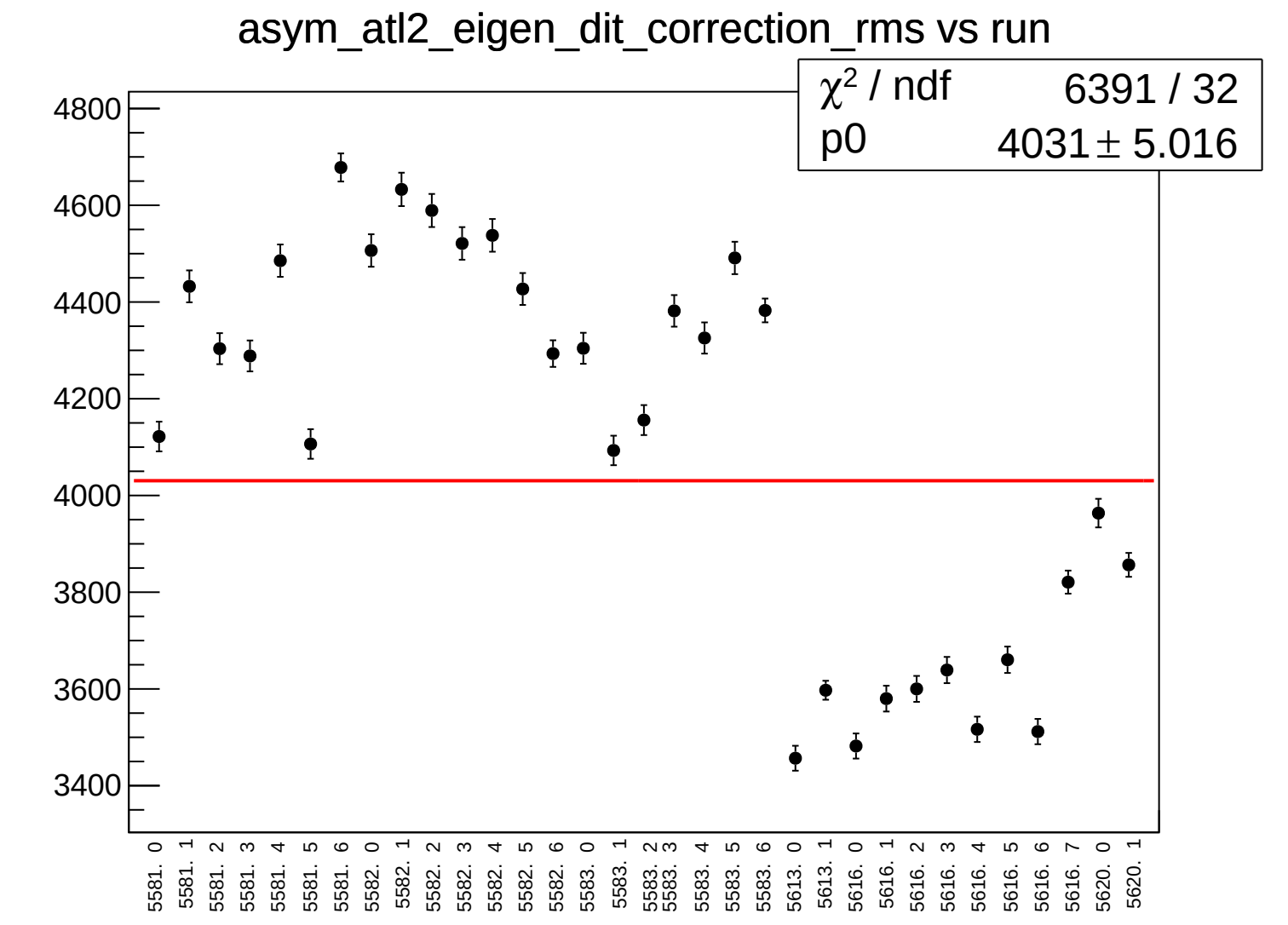

asym_atl2_dit_correction_rms vs run
χ² / ndf 6391 / 32
p0 4031 ± 5.016
4800
4600
4400
4200
4000
3800
3600
3400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

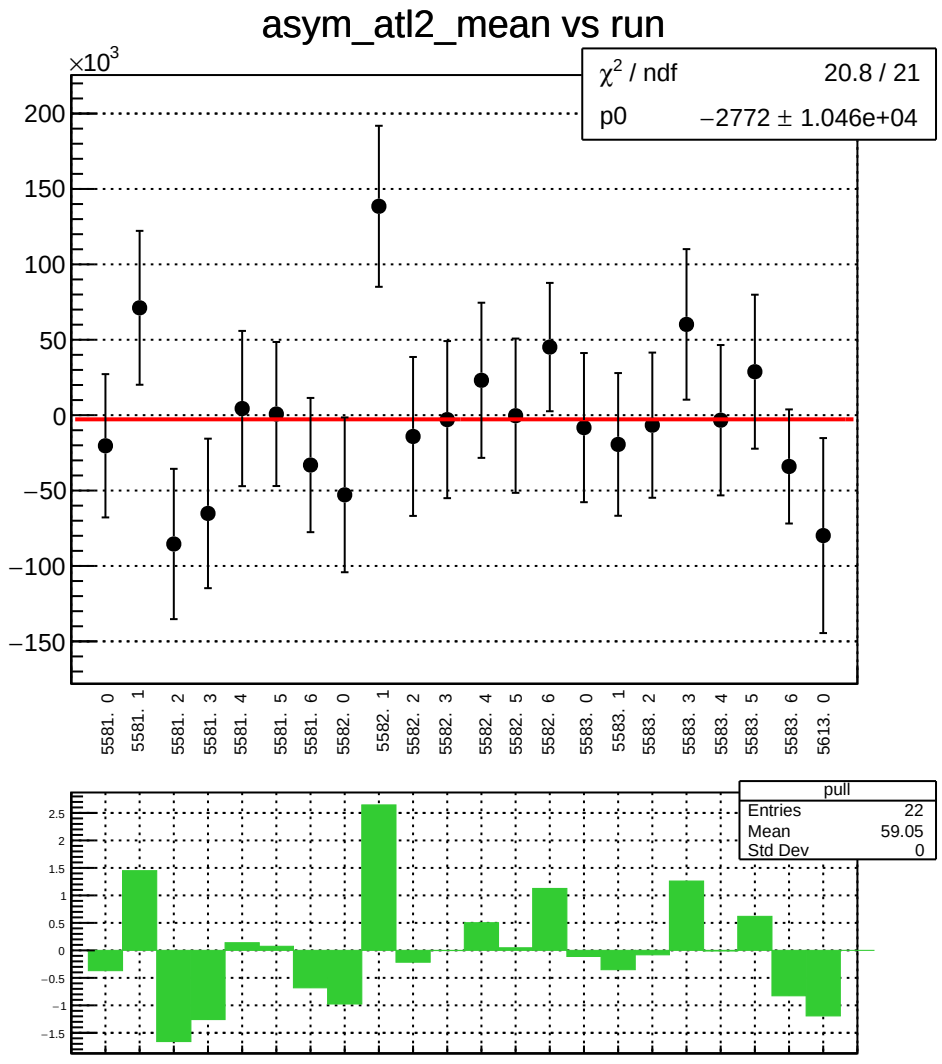

eigen_dit_asym_atl2_mean vs run
χ² / ndf 20.81 / 21
p0 1218 ± 4110
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 82.76
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 22
Mean −0.02592
Std Dev 0.9722
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

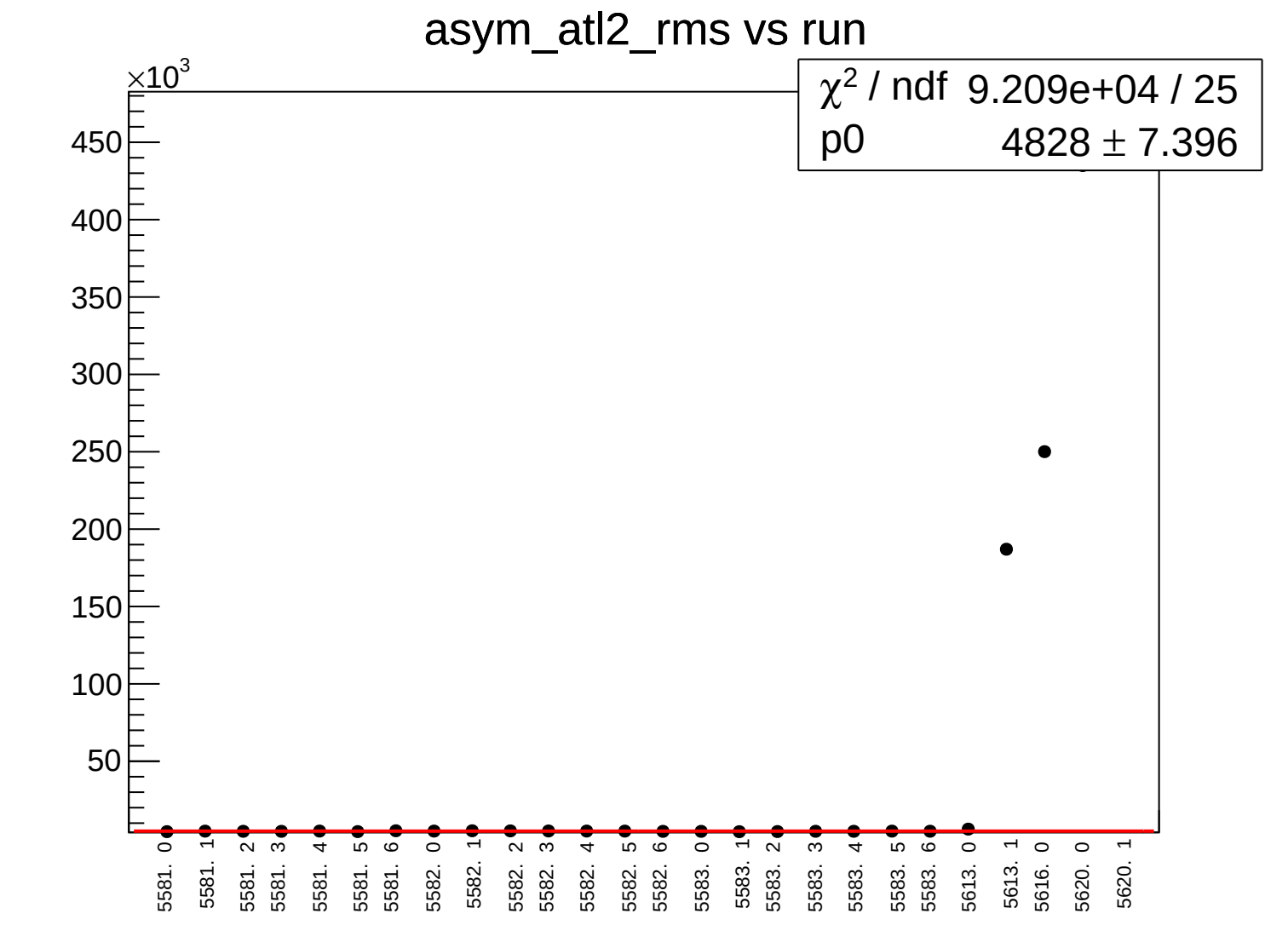

eigen_dit_asym_atl2_rms vs run
×10^3
χ^2 / ndf 1.237e+05 / 32
p0 2027 ± 2.789
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

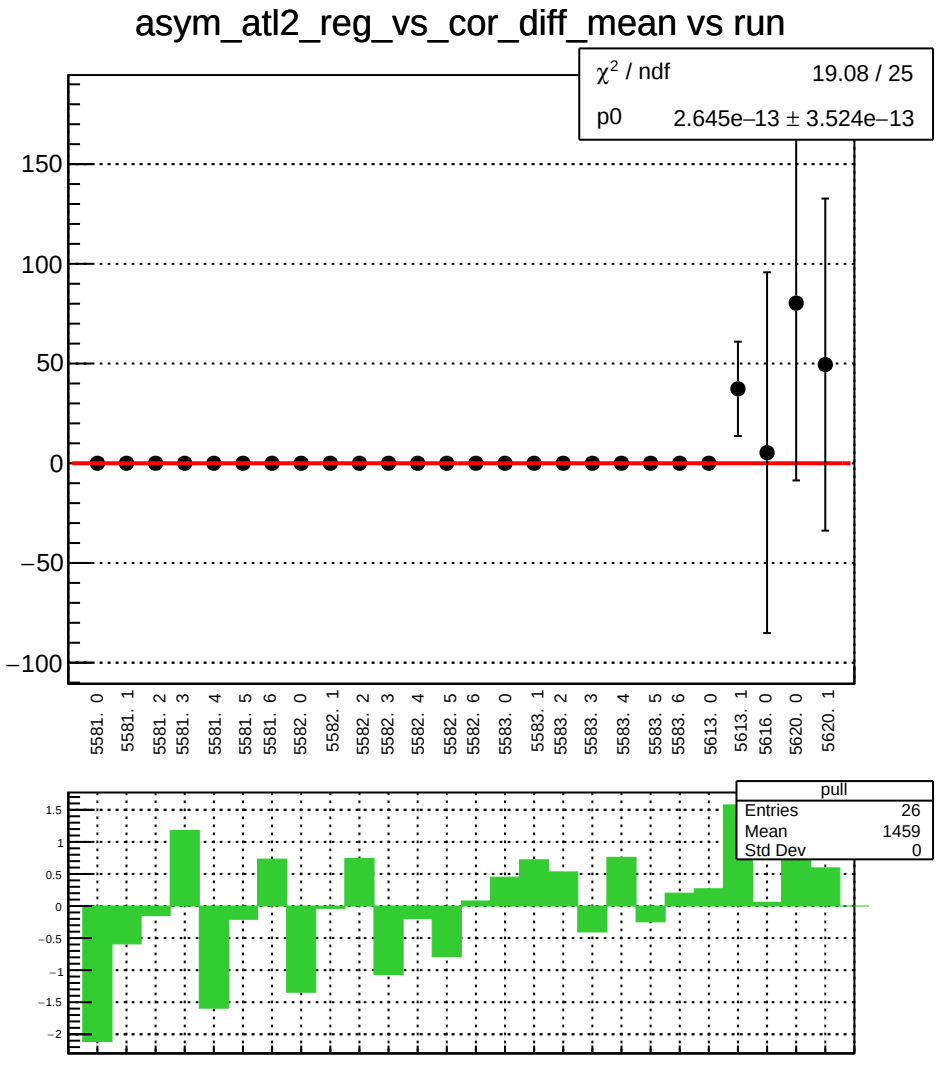

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 33.03 / 32
p0 −4146 ± 7094
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 451.8
Std Dev 0
2
1
0
−1
−2

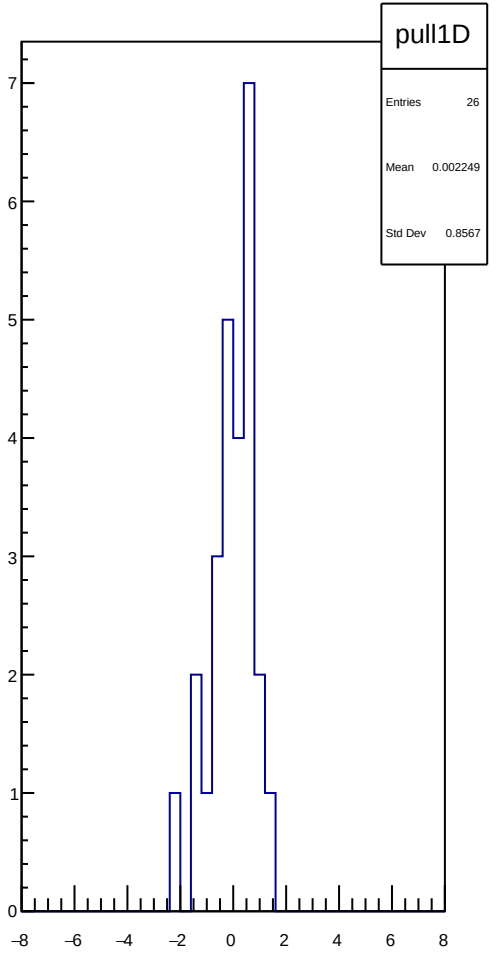

pull1D
Entries 33
Mean −0.005935
Std Dev 1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

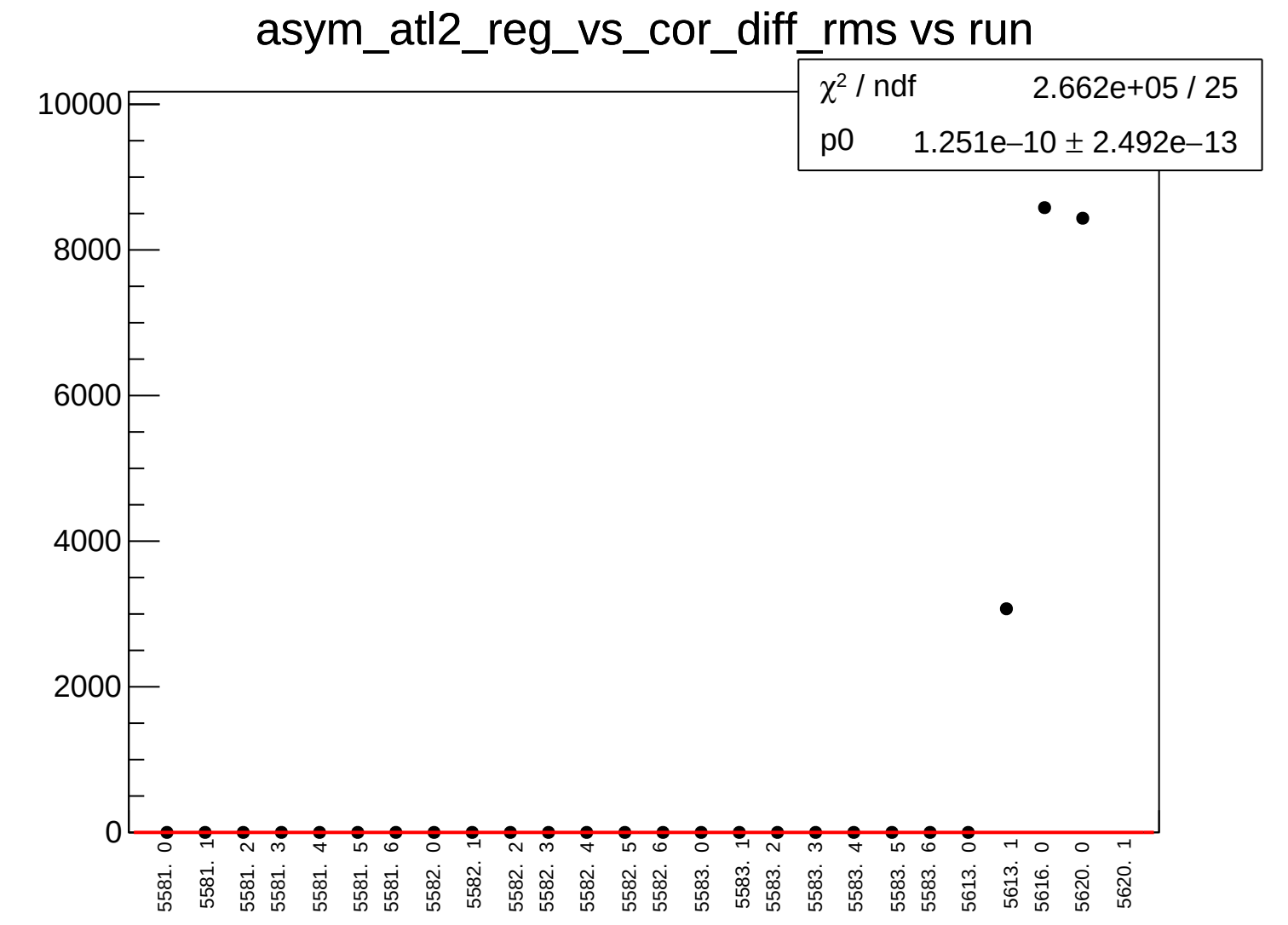

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 6391 / 32
p0 4031 ± 5.016
4800
4600
4400
4200
4000
3800
3600
3400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

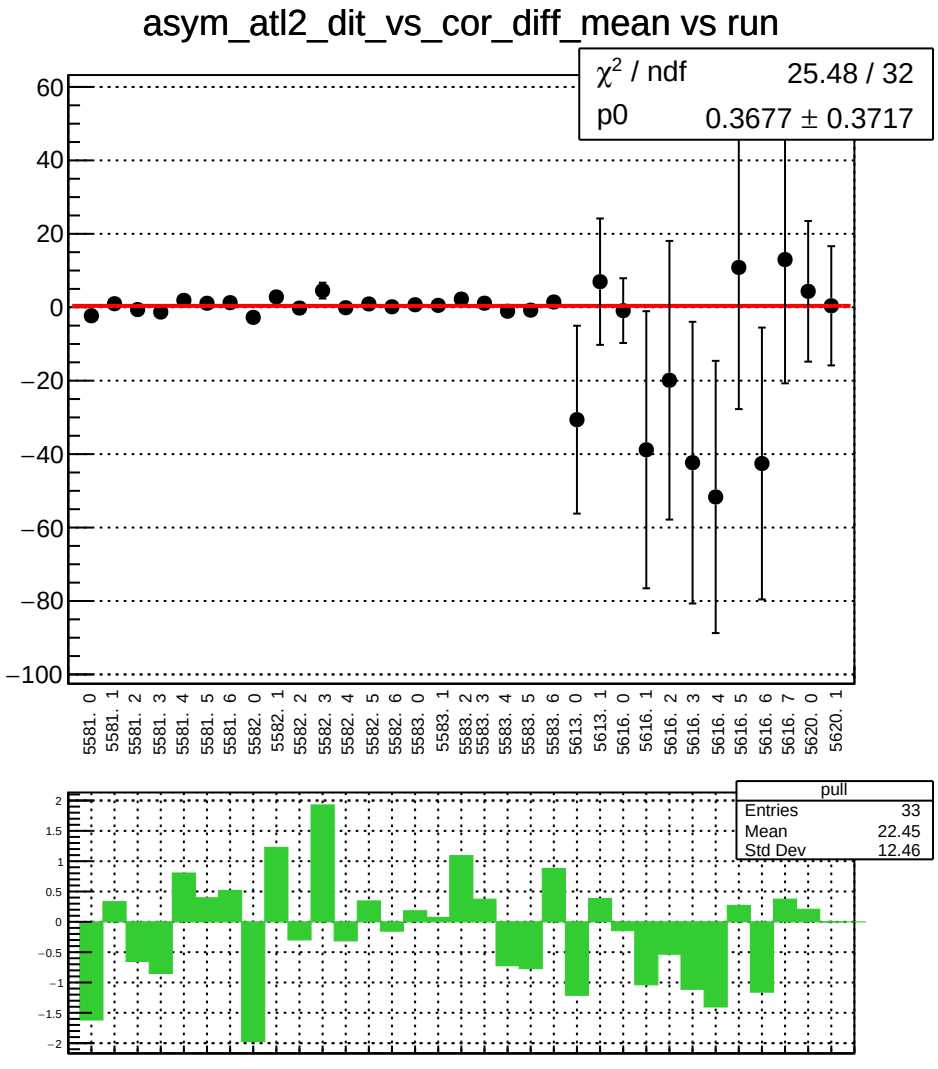

asym_atl2_mean vs run
×10^3
χ² / ndf 20.8 / 21
p0 −2772 ± 1.046e+04
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 59.05
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 22
Mean 0.005913
Std Dev 0.9724
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

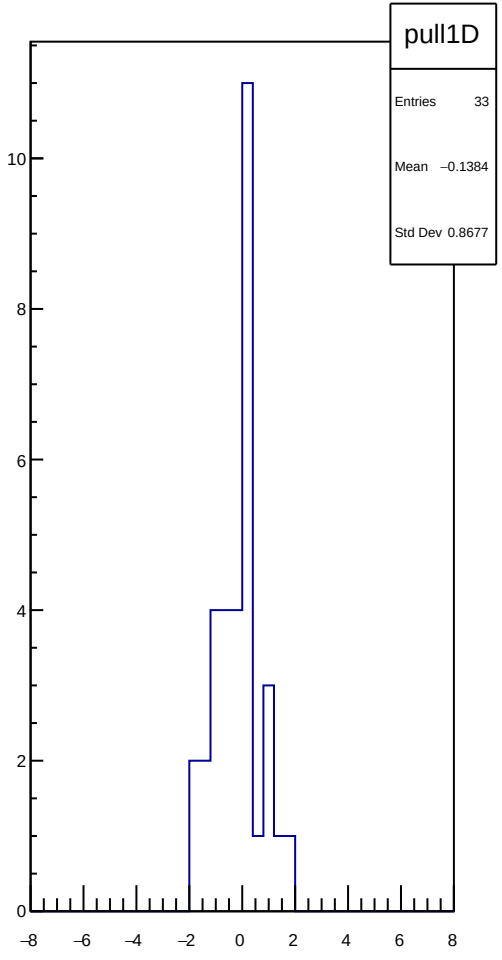

asym_atl2_rms vs run
×10^3
χ^2 / ndf 9.209e+04 / 25
p0 4828 ± 7.396
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

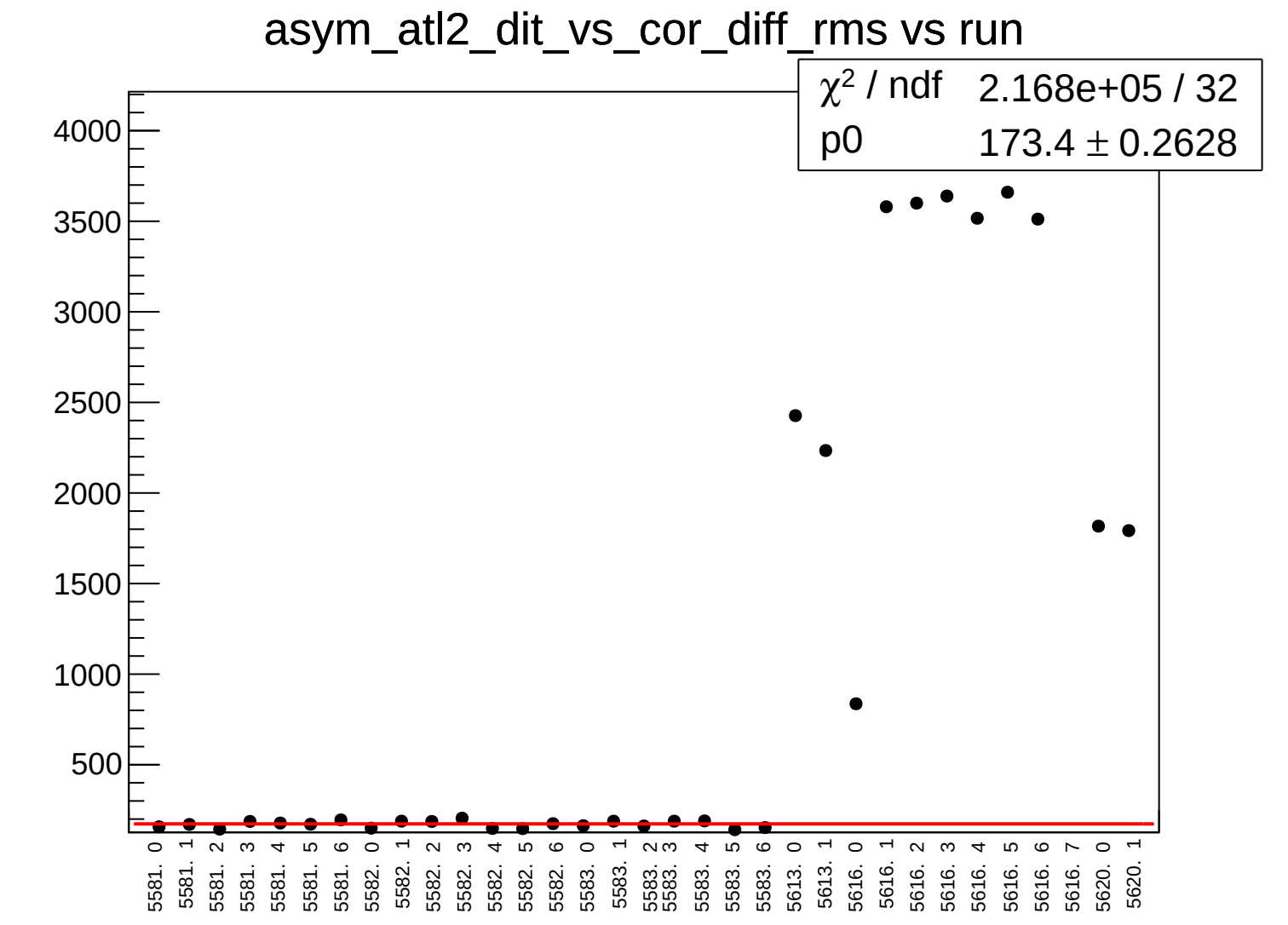

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 19.08 / 25
p0 2.645e−13 ± 3.524e−13
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 1459
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

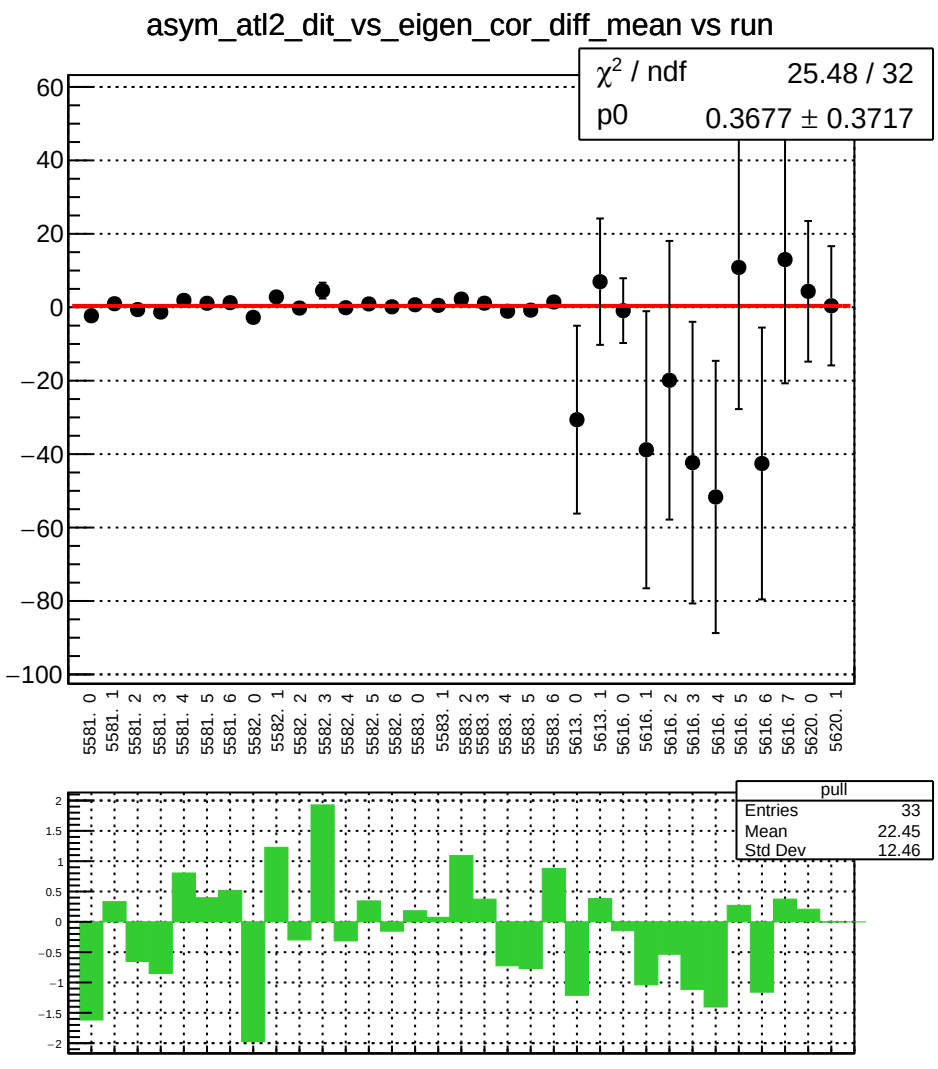

pull1D
Entries 26
Mean 0.002249
Std Dev 0.8567
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

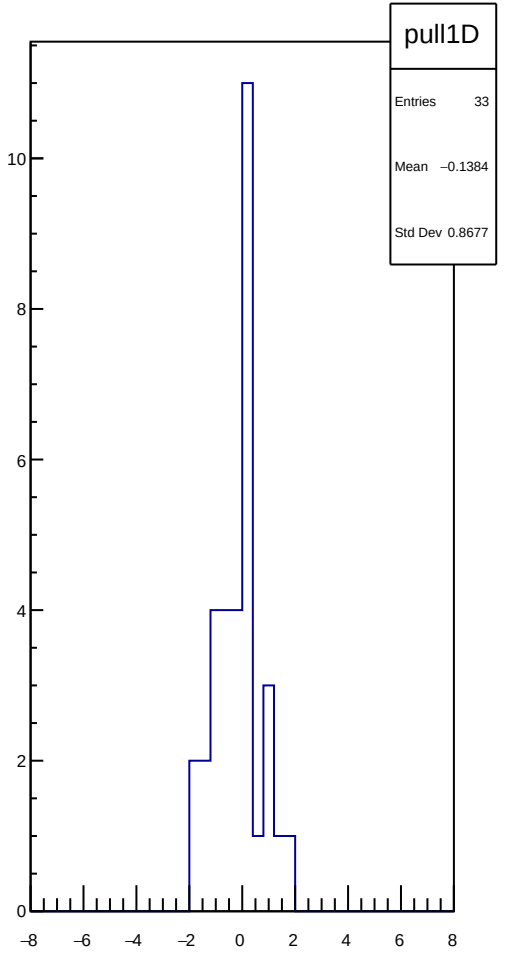

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 2.662e+05 / 25
p0 1.251e−10 ± 2.492e−13
10000
8000
6000
4000
2000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

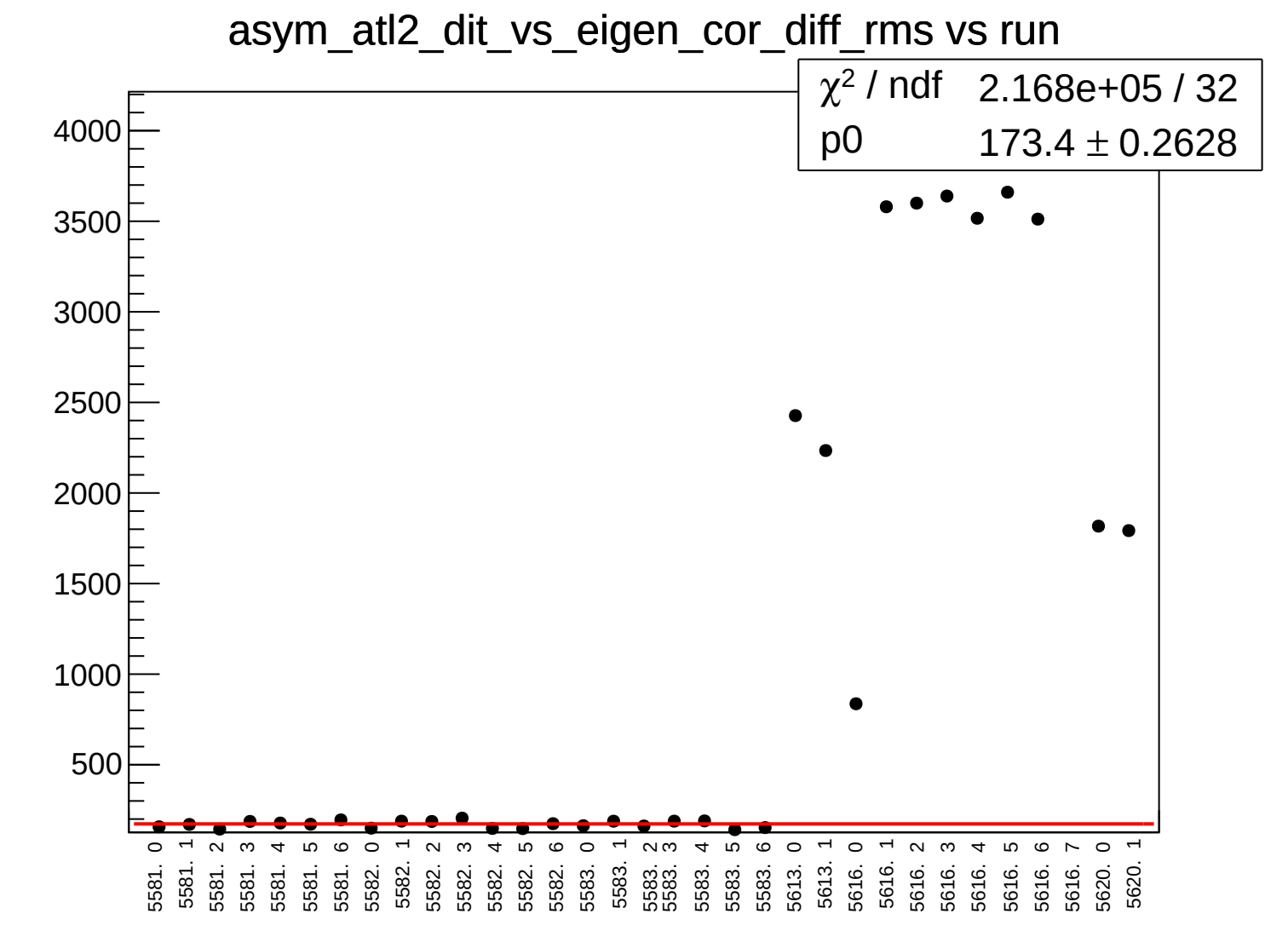

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 25.48 / 32
p0 0.3677 ± 0.3717
pull
Entries 33
Mean 22.45
Std Dev 12.46

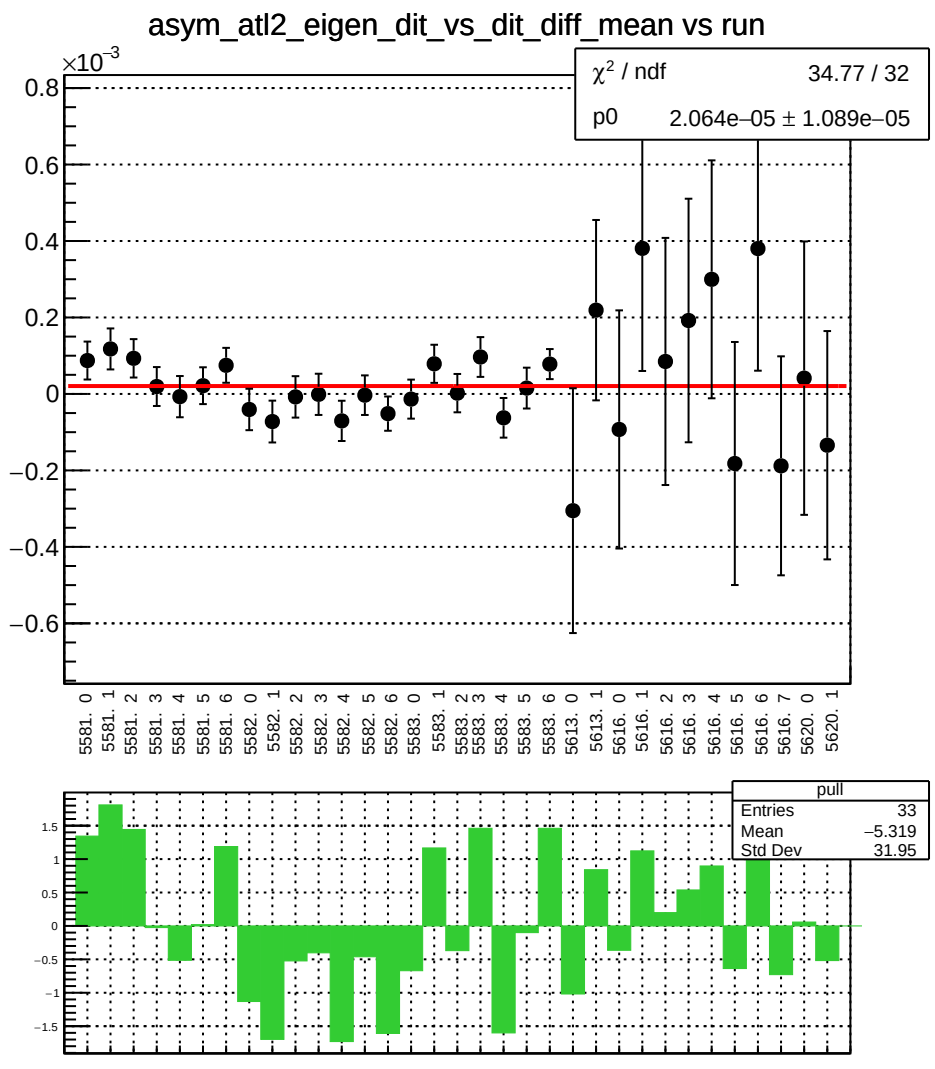

pull1D
Entries 33
Mean −0.1384
Std Dev 0.8677

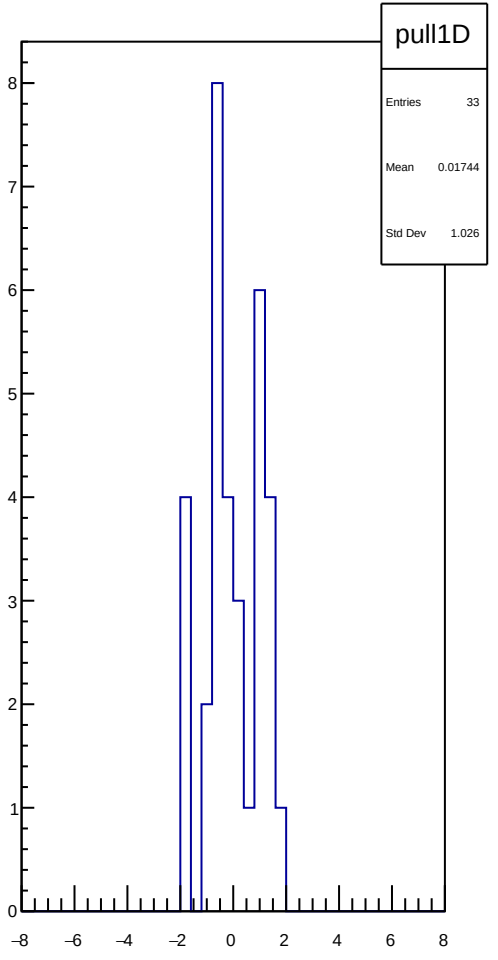

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.168e+05 / 32
p0 173.4 ± 0.2628
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

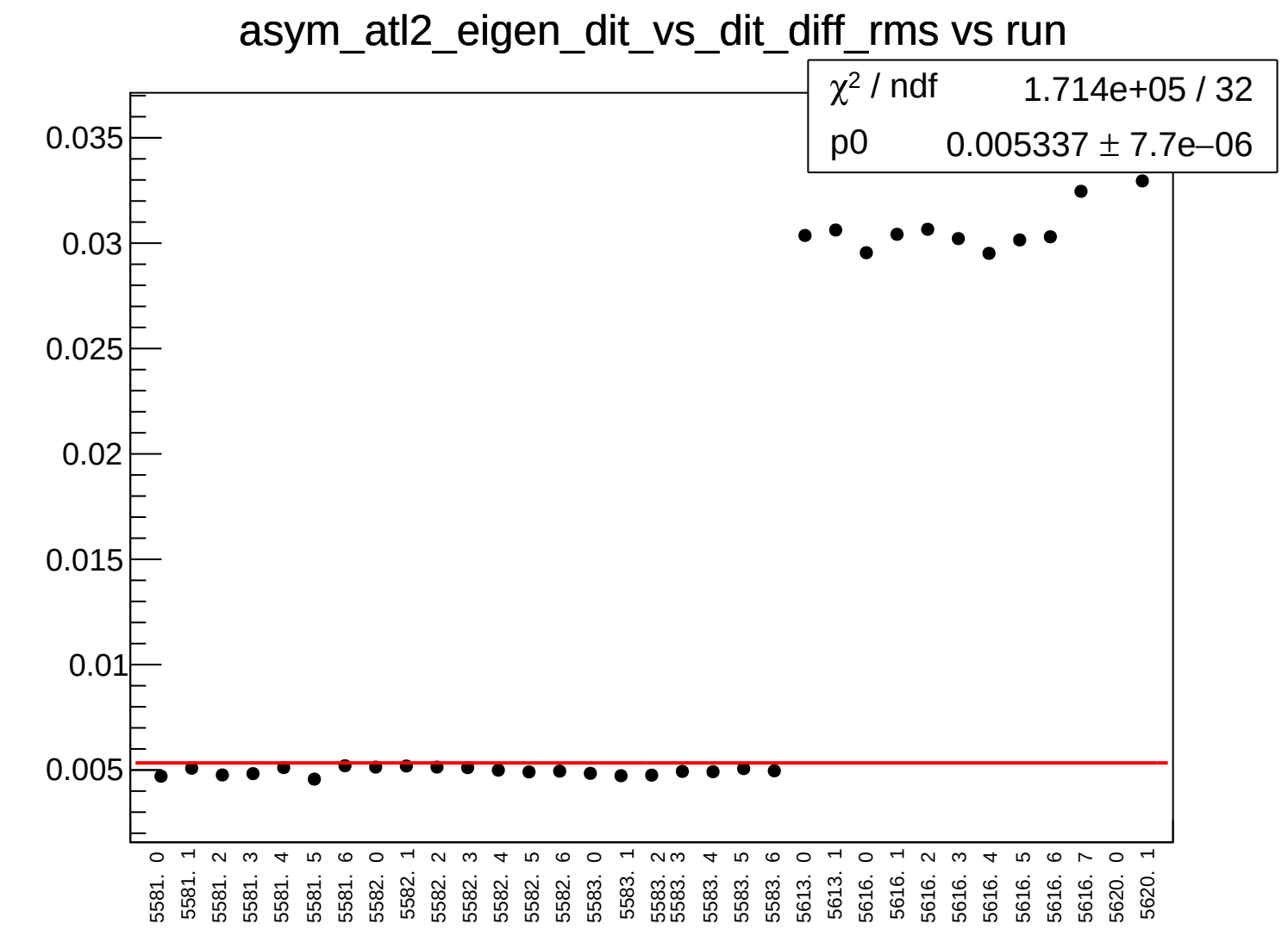

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.48 / 32
p0 0.3677 ± 0.3717
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.45
Std Dev 12.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

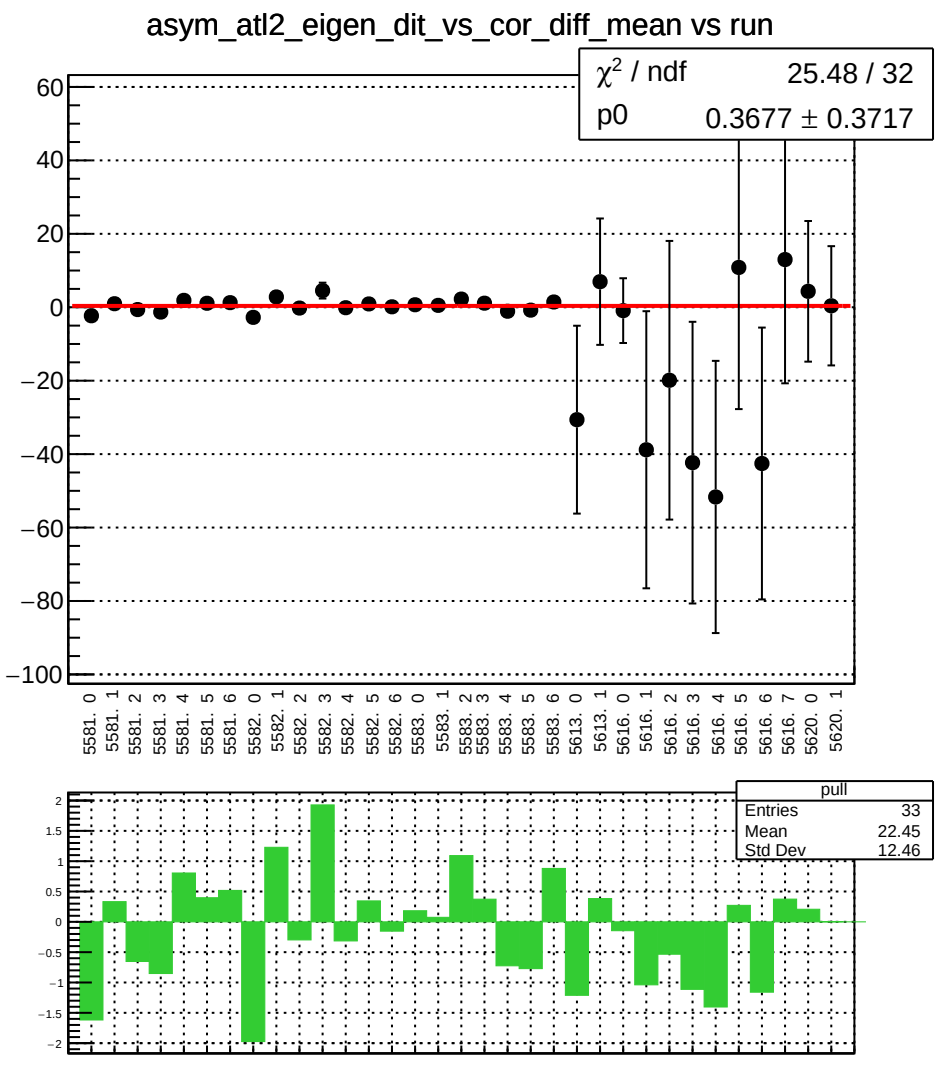

pull1D
Entries 33
Mean −0.1384
Std Dev 0.8677
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

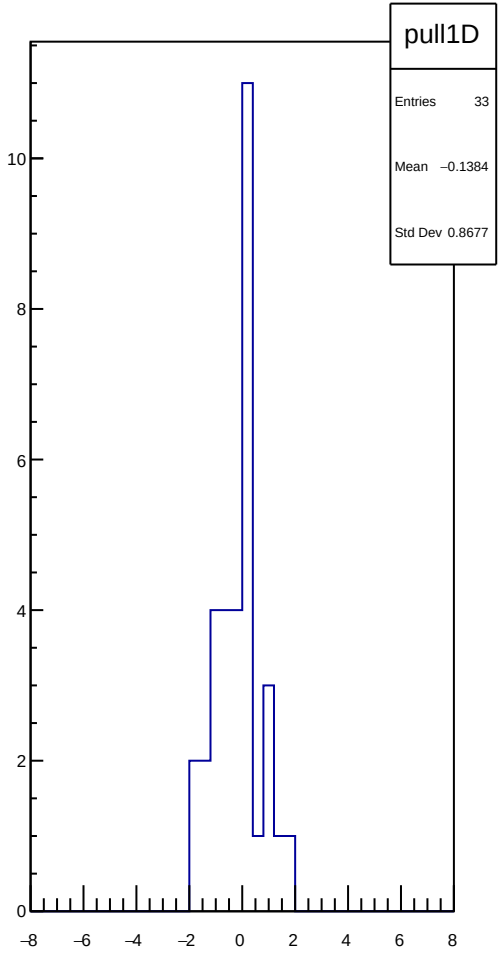

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.168e+05 / 32
p0 173.4 ± 0.2628
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

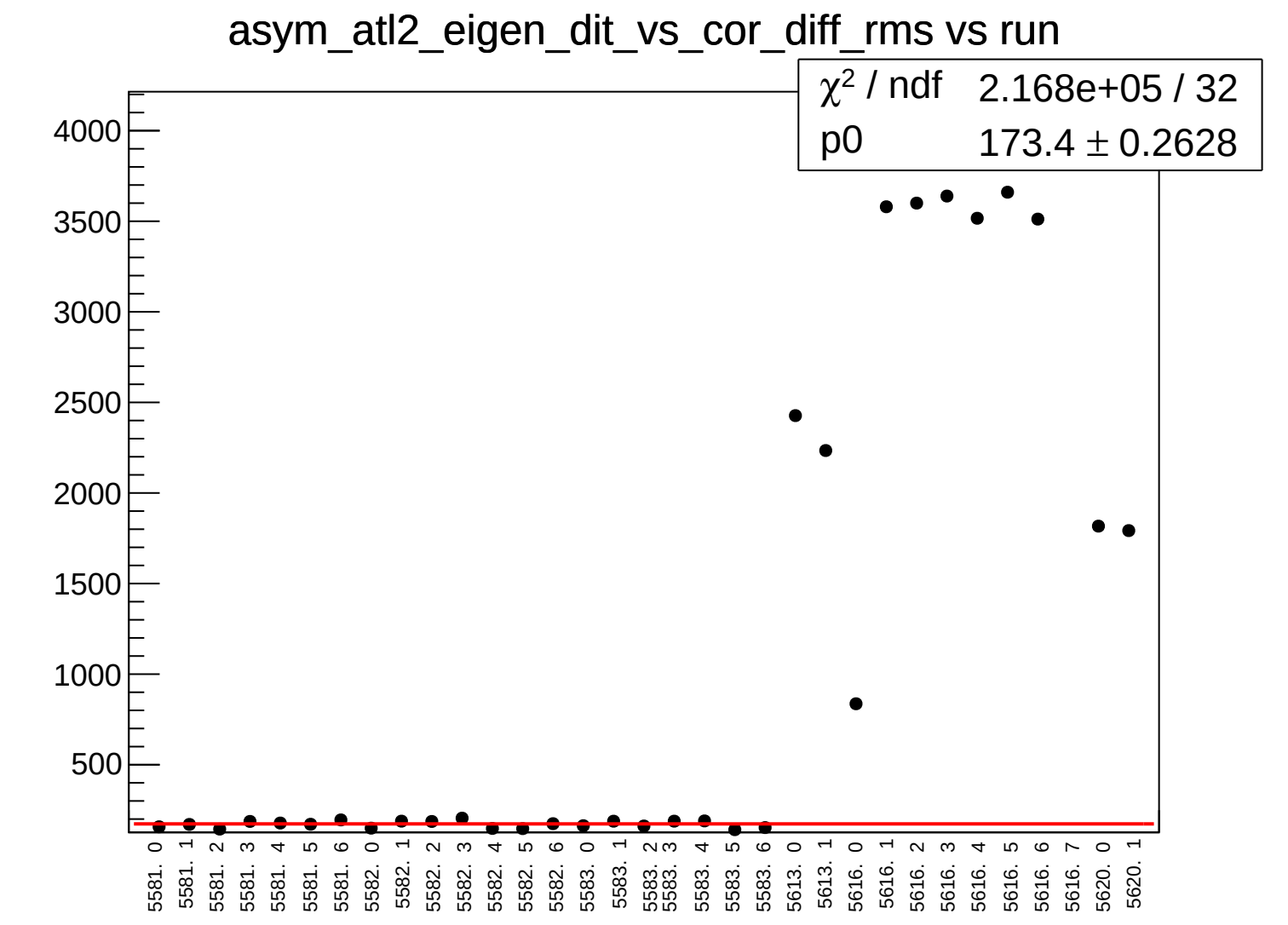

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 34.77 / 32
p0 2.064e−05 ± 1.089e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −5.319
Std Dev 31.95
1.5
1
0.5
0
−0.5
−1
−1.5

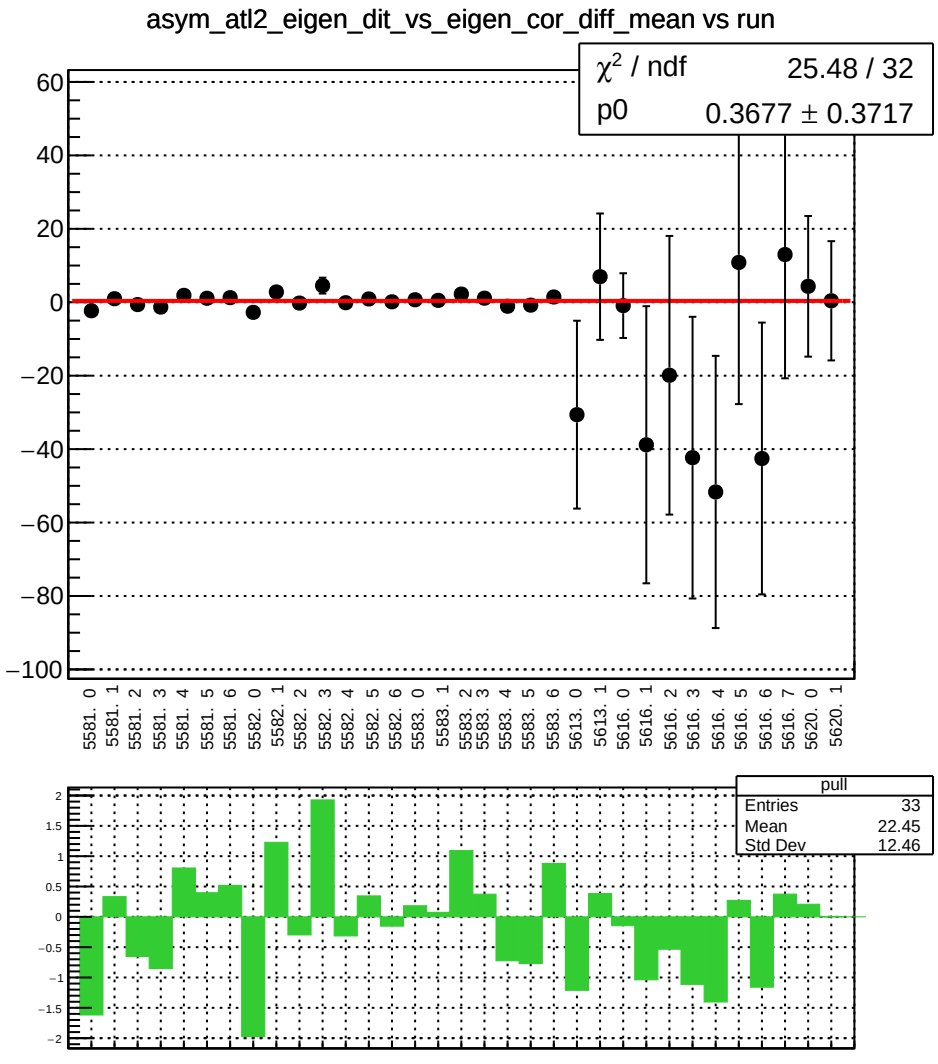

pull1D
Entries 33
Mean 0.01744
Std Dev 1.026
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

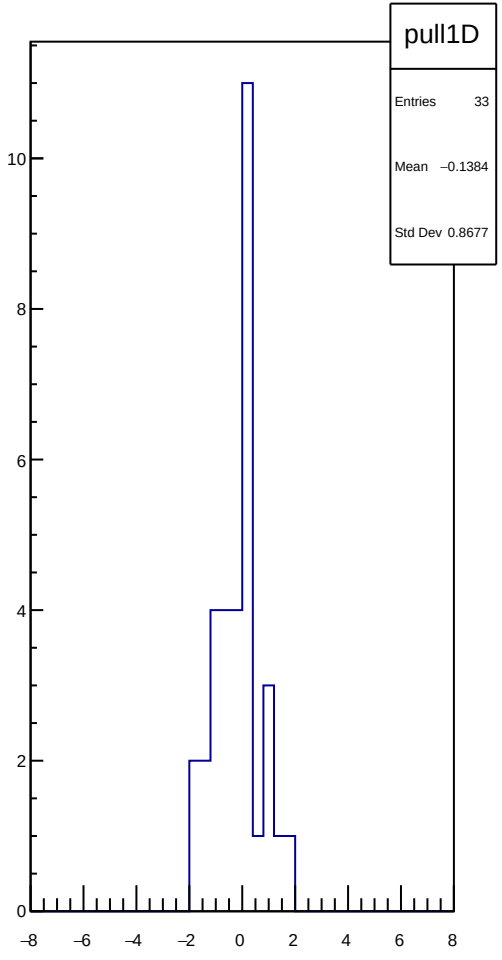

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.714e+05 / 32
p0 0.005337 ± 7.7e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

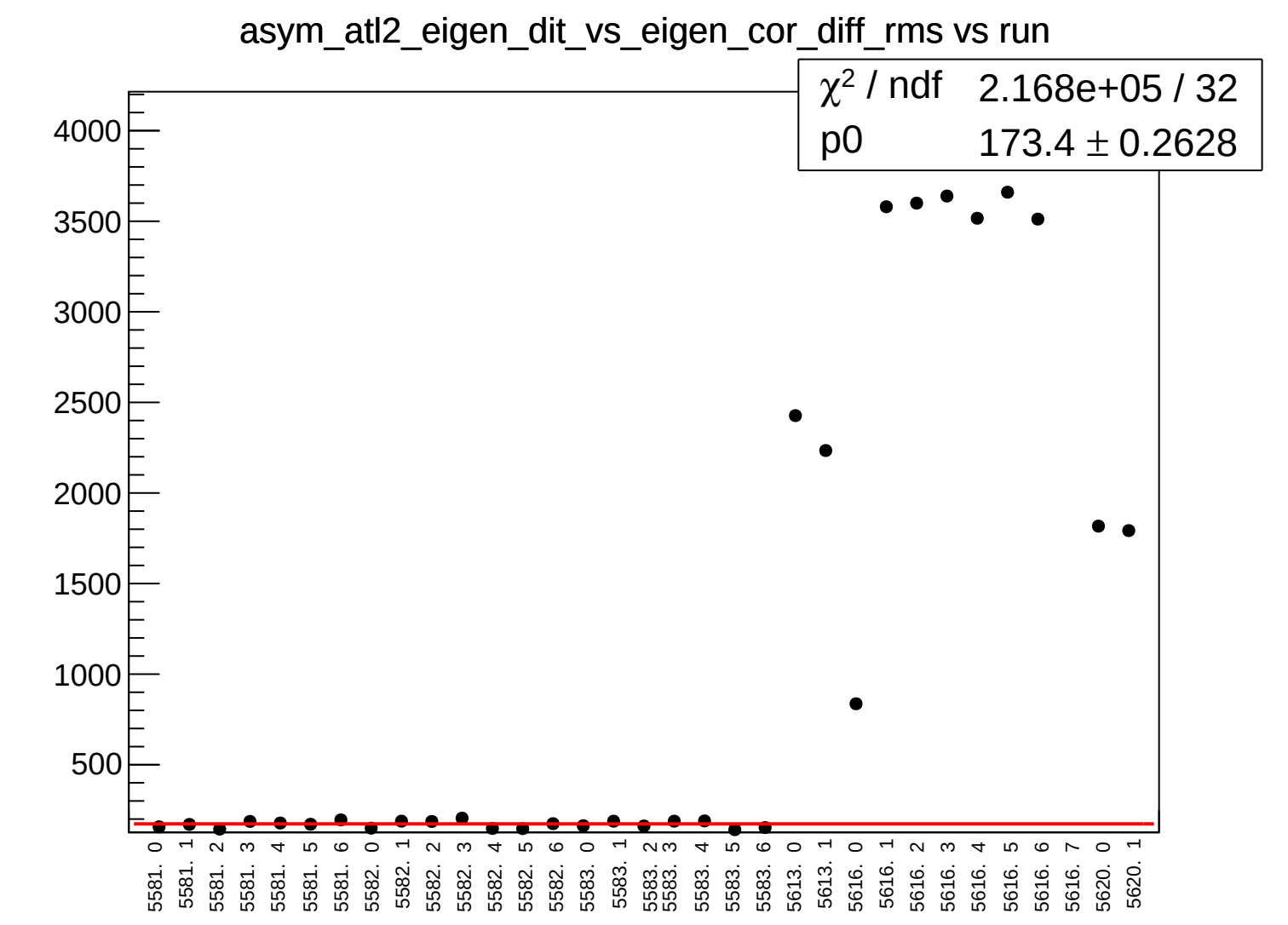

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.48 / 32
p0 0.3677 ± 0.3717
pull
Entries 33
Mean 22.45
Std Dev 12.46

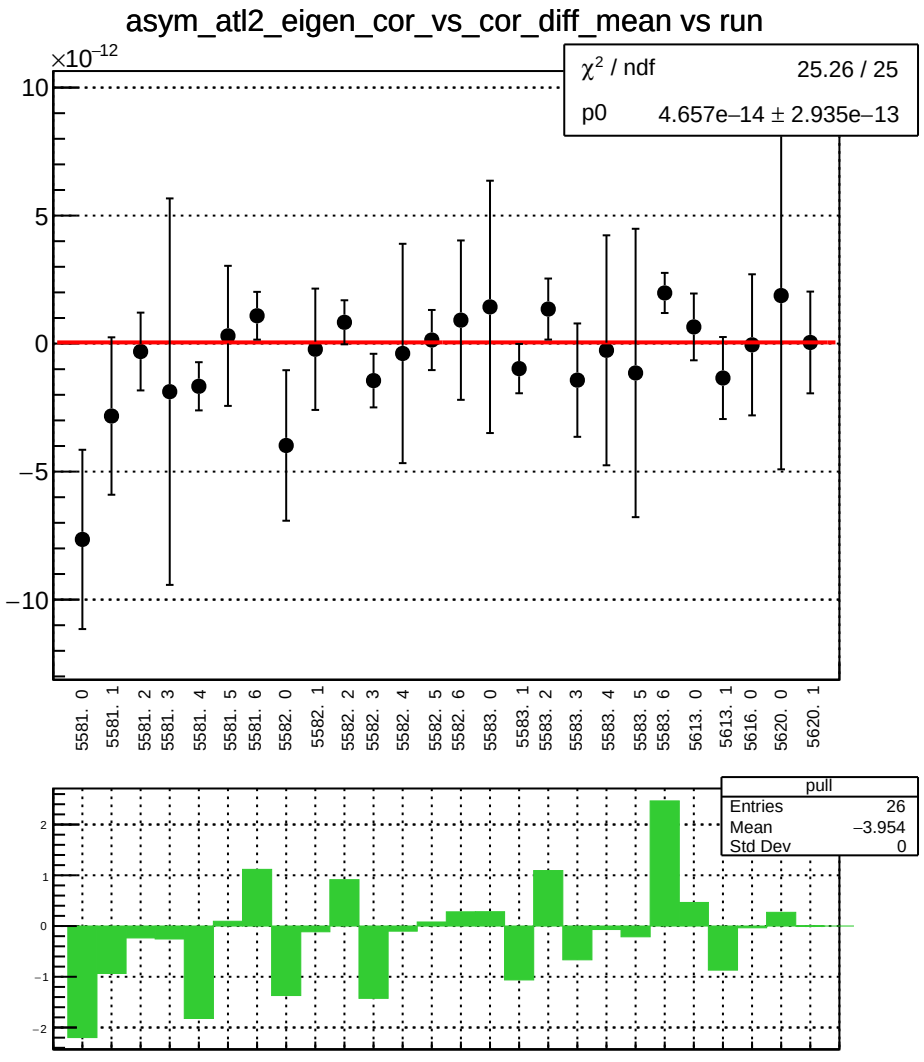

pull1D
Entries 33
Mean −0.1384
Std Dev 0.8677

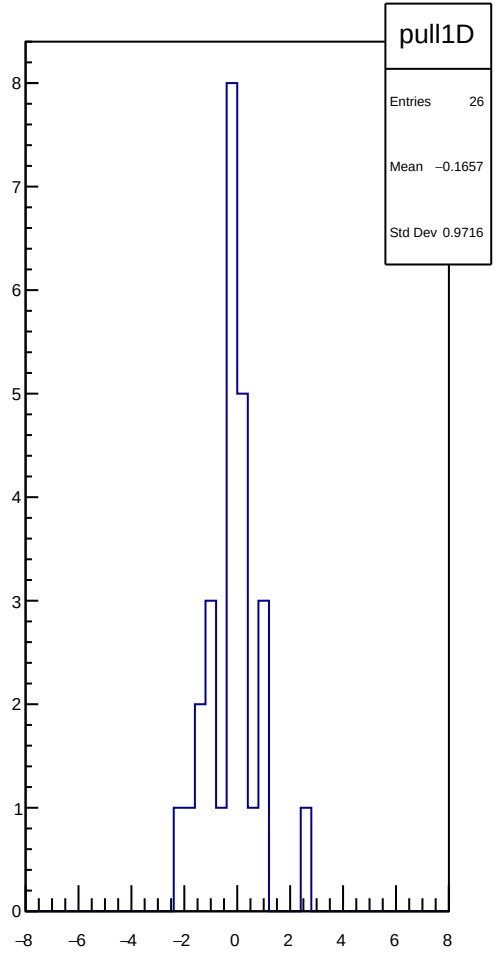

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.168e+05 / 32
p0 173.4 ± 0.2628
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

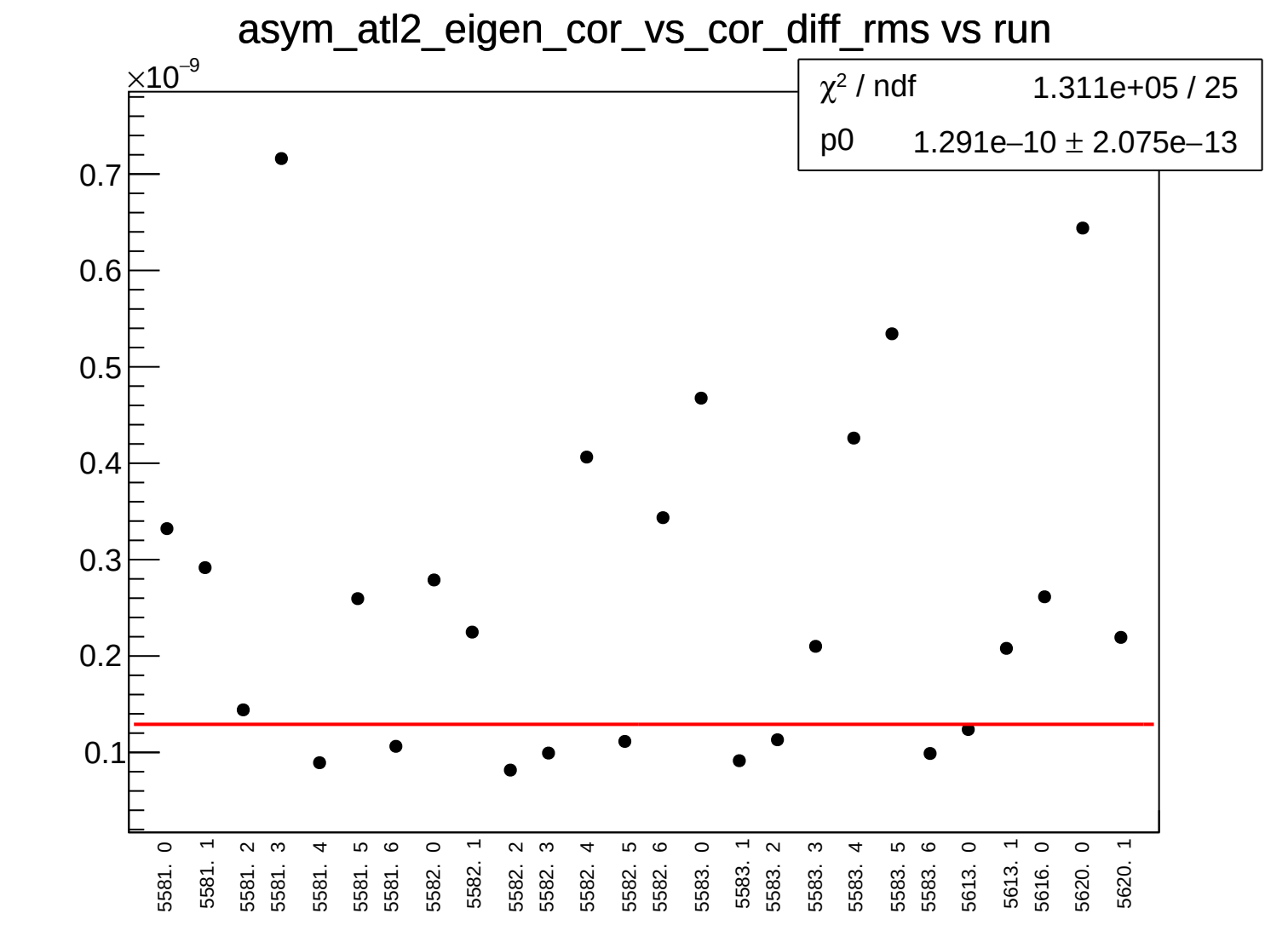

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.48 / 32
p0 0.3677 ± 0.3717
pull
Entries 33
Mean 22.45
Std Dev 12.46

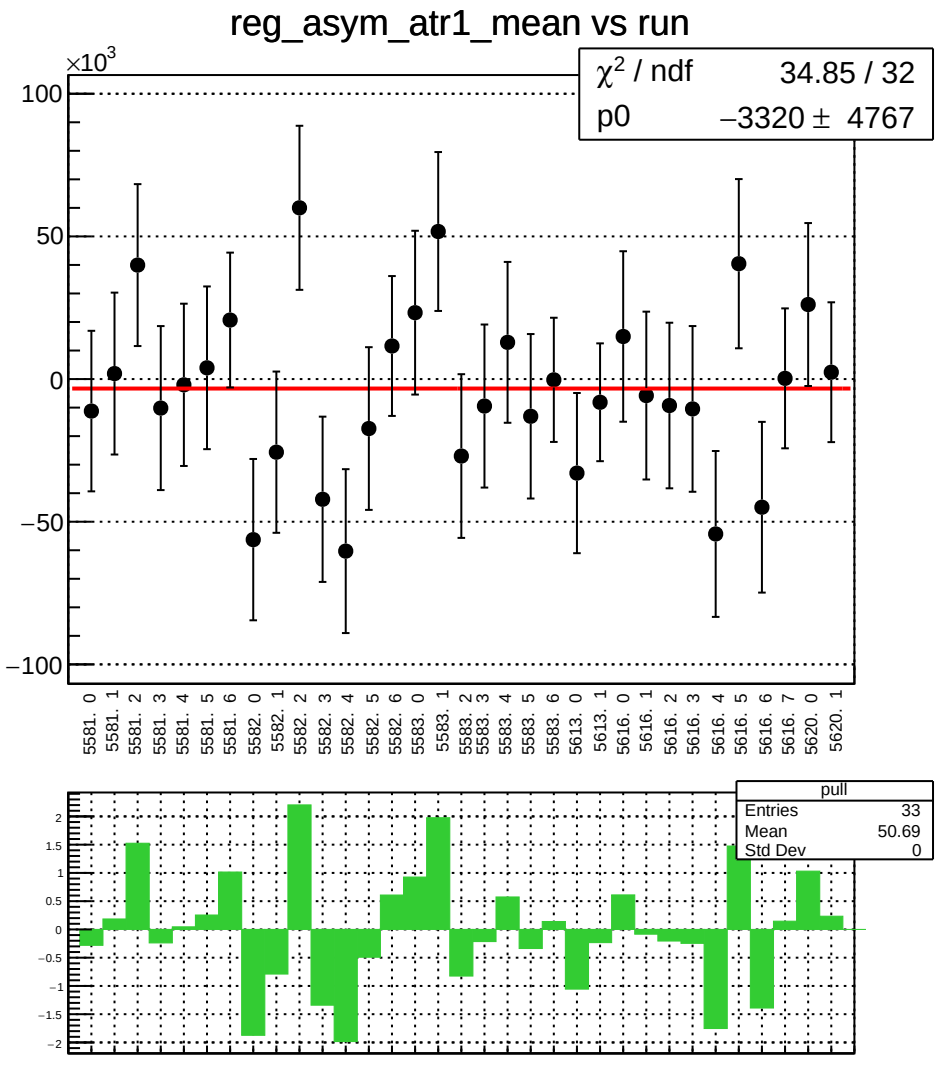

pull1D
Entries 33
Mean −0.1384
Std Dev 0.8677

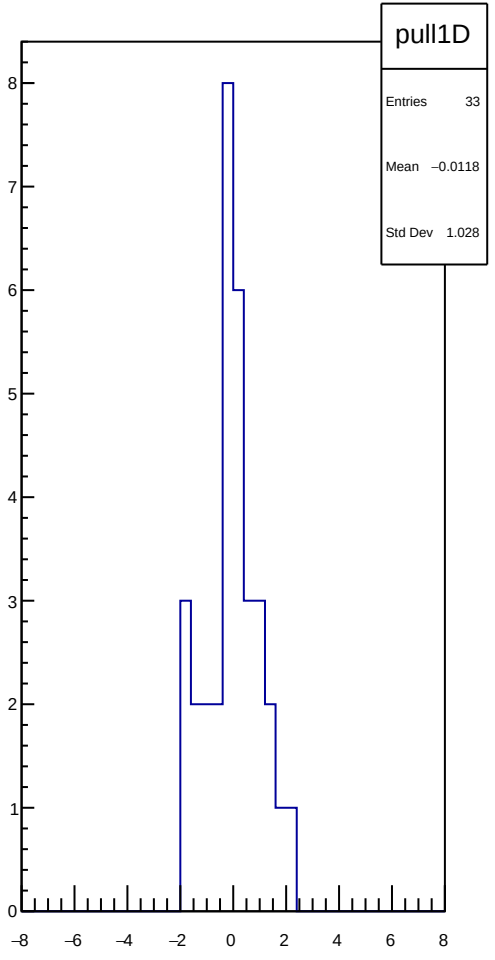

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.168e+05 / 32
p0 173.4 ± 0.2628
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

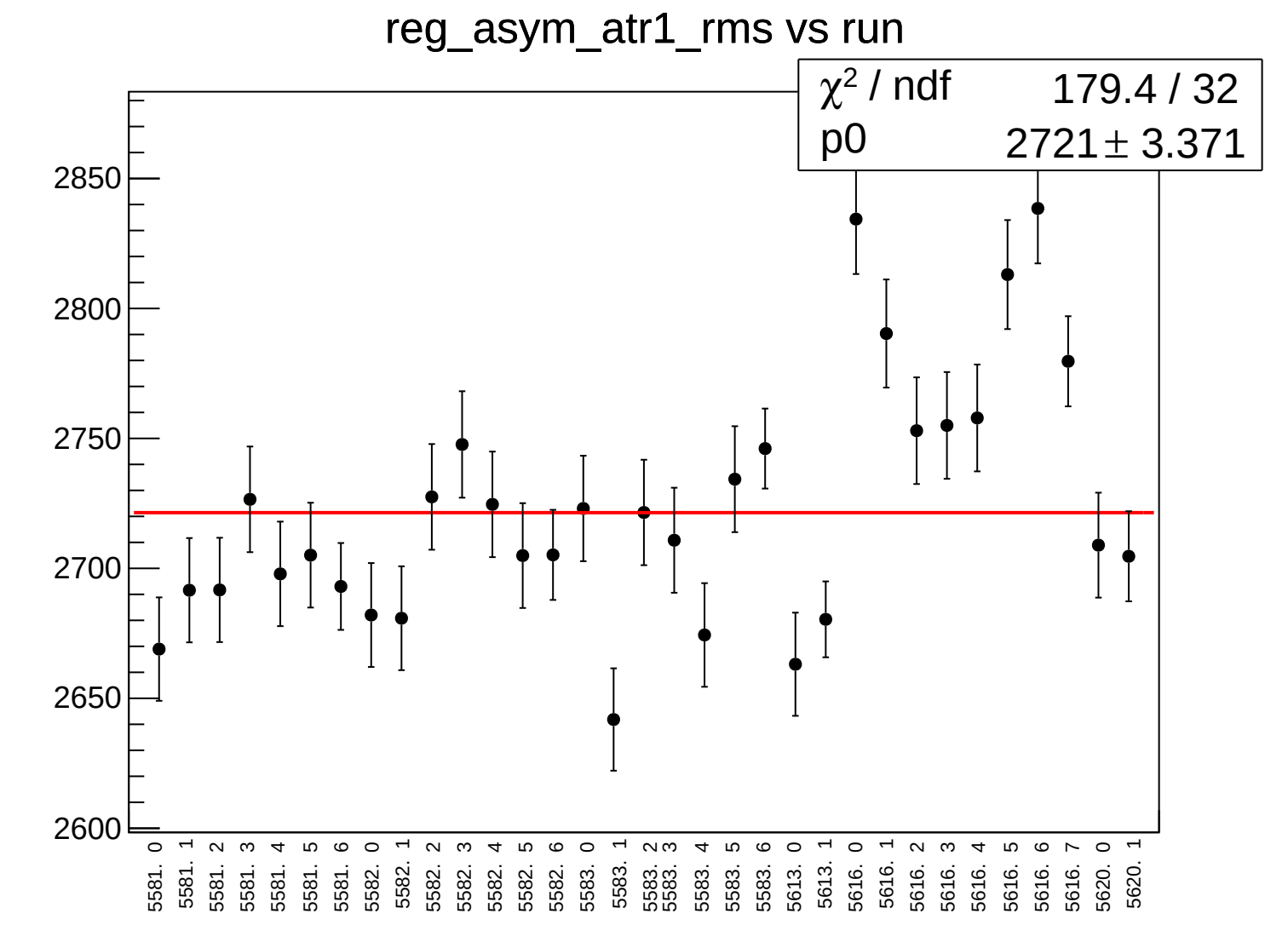

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.26 / 25
p0 4.657e−14 ± 2.935e−13
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −3.954
Std Dev 0
2
1
0
−1
−2

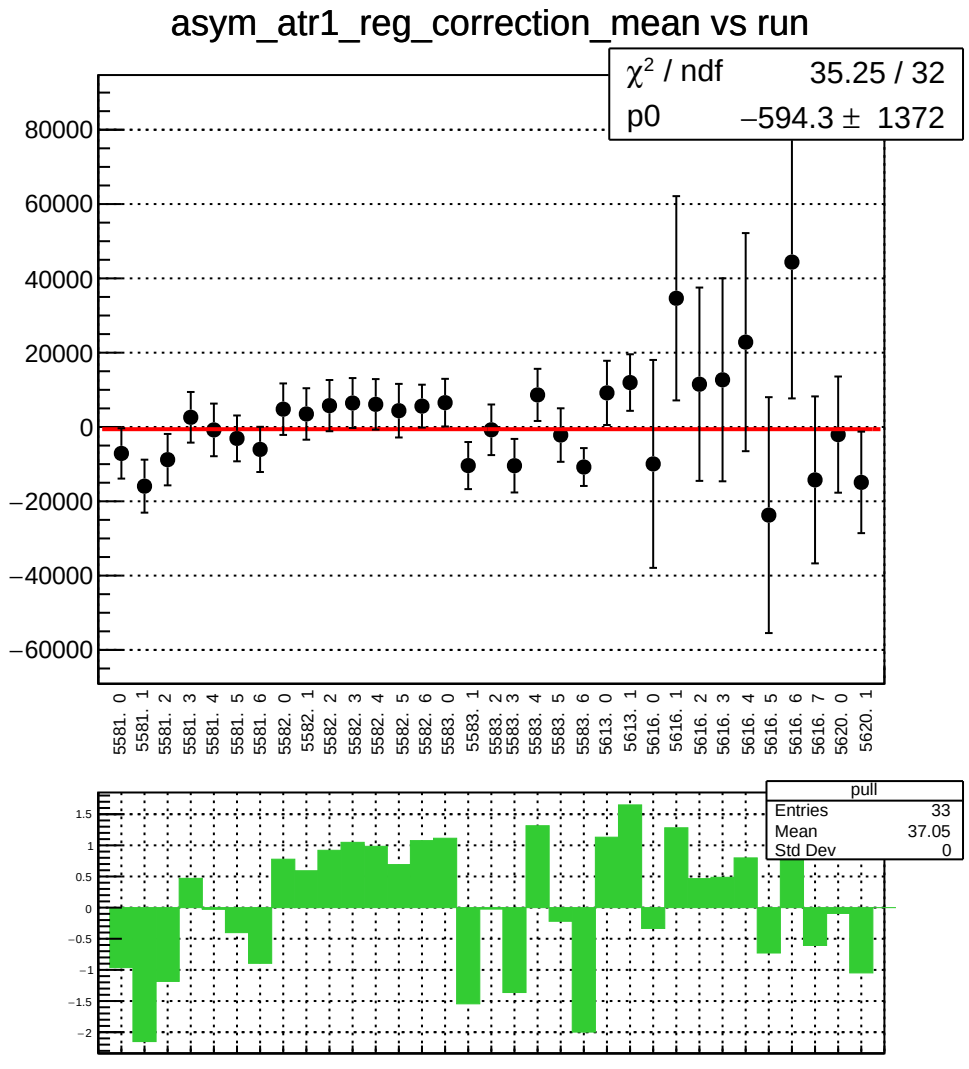

pull1D
Entries 26
Mean −0.1657
Std Dev 0.9716
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

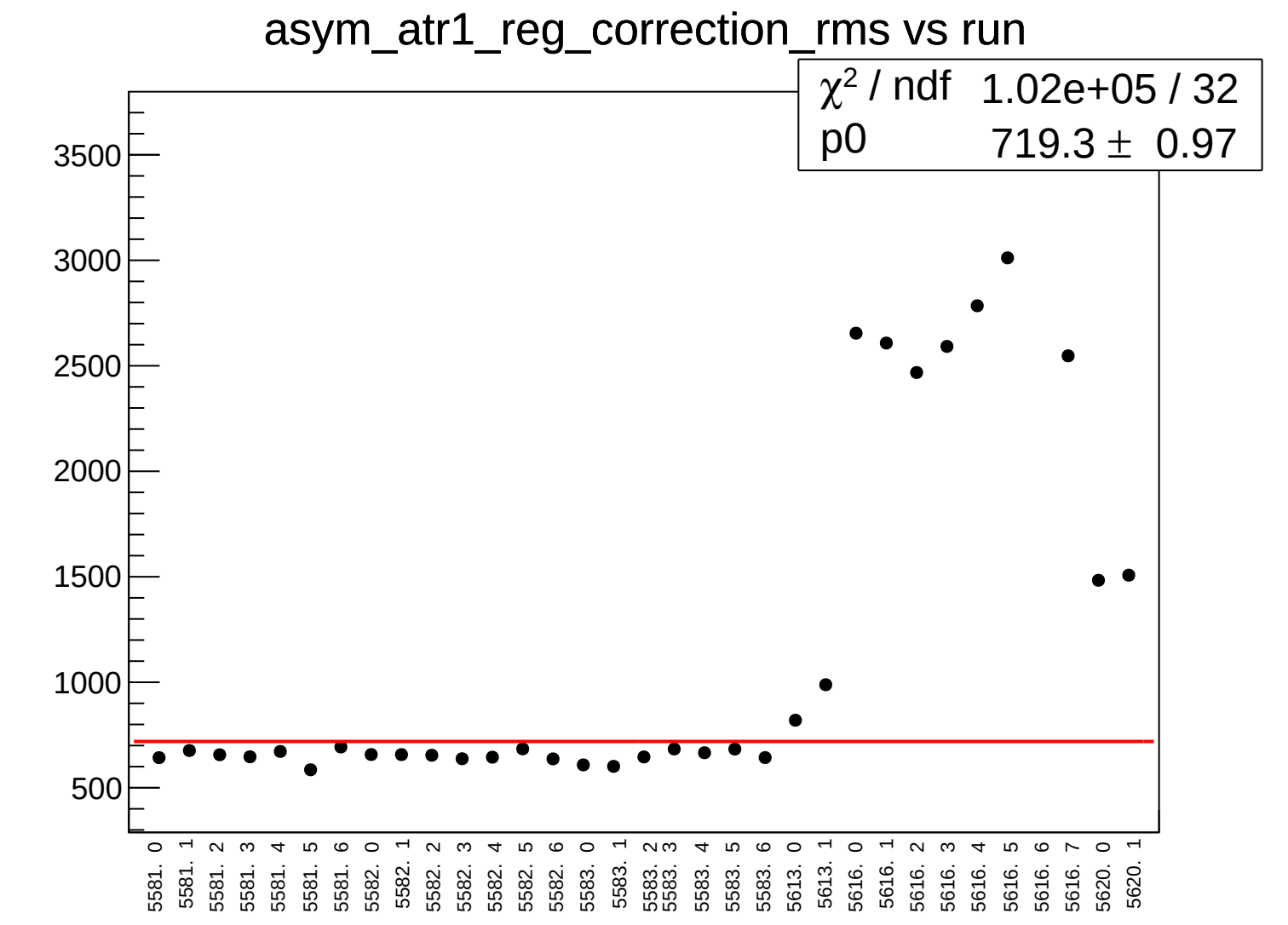

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.311e+05 / 25
p0 1.291e−10 ± 2.075e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

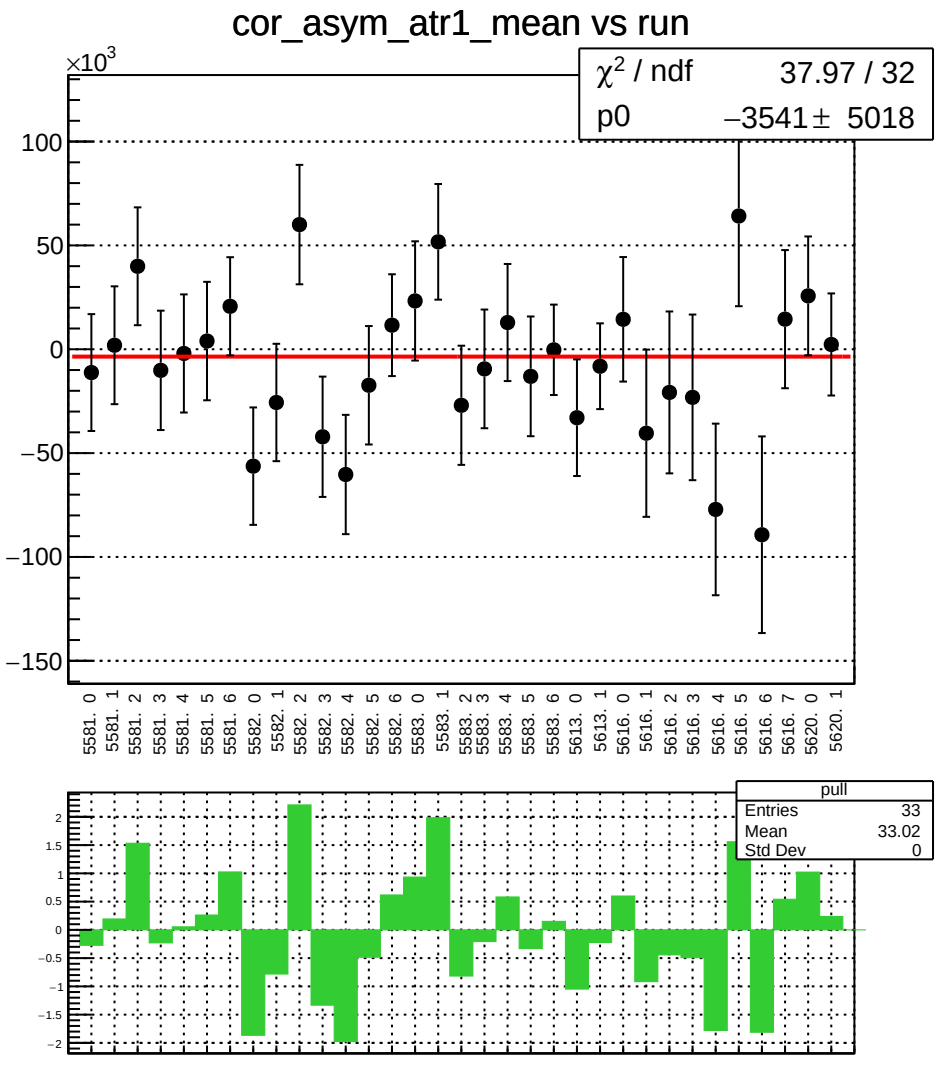

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 34.85 / 32
p0 −3320 ± 4767
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 50.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

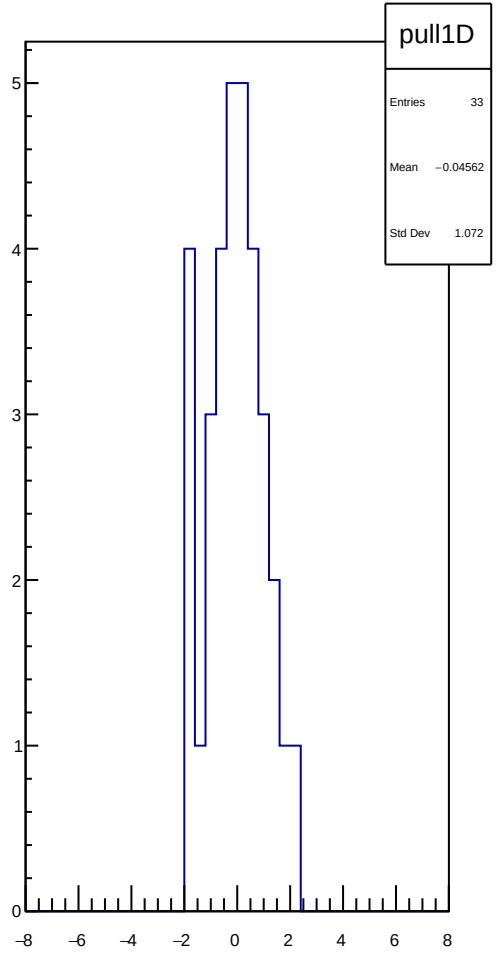

pull1D
Entries 33
Mean −0.0118
Std Dev 1.028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

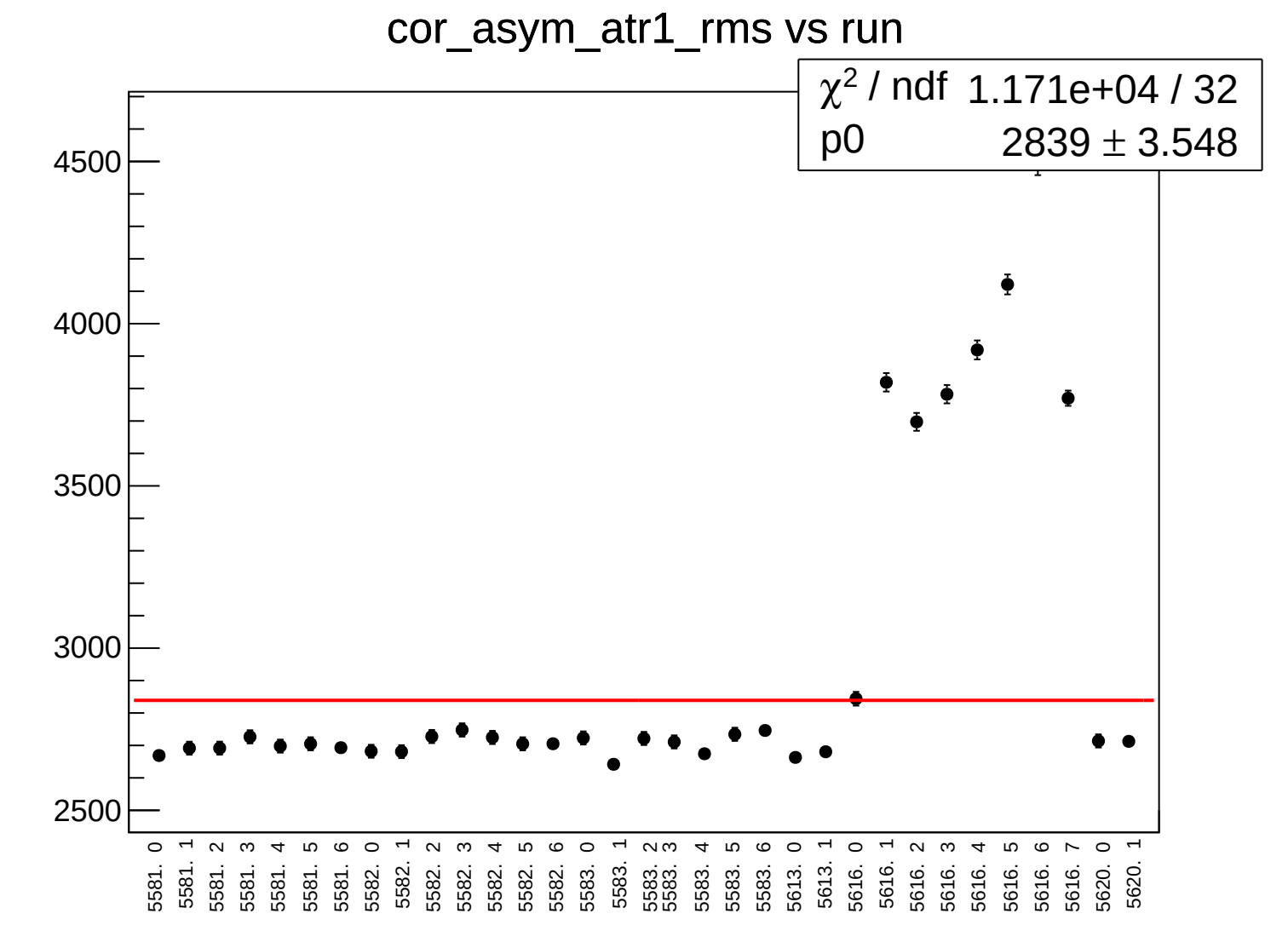

reg_asym_atr1_rms vs run
χ² / ndf 179.4 / 32
p0 2721 ± 3.371
2850
2800
2750
2700
2650
2600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

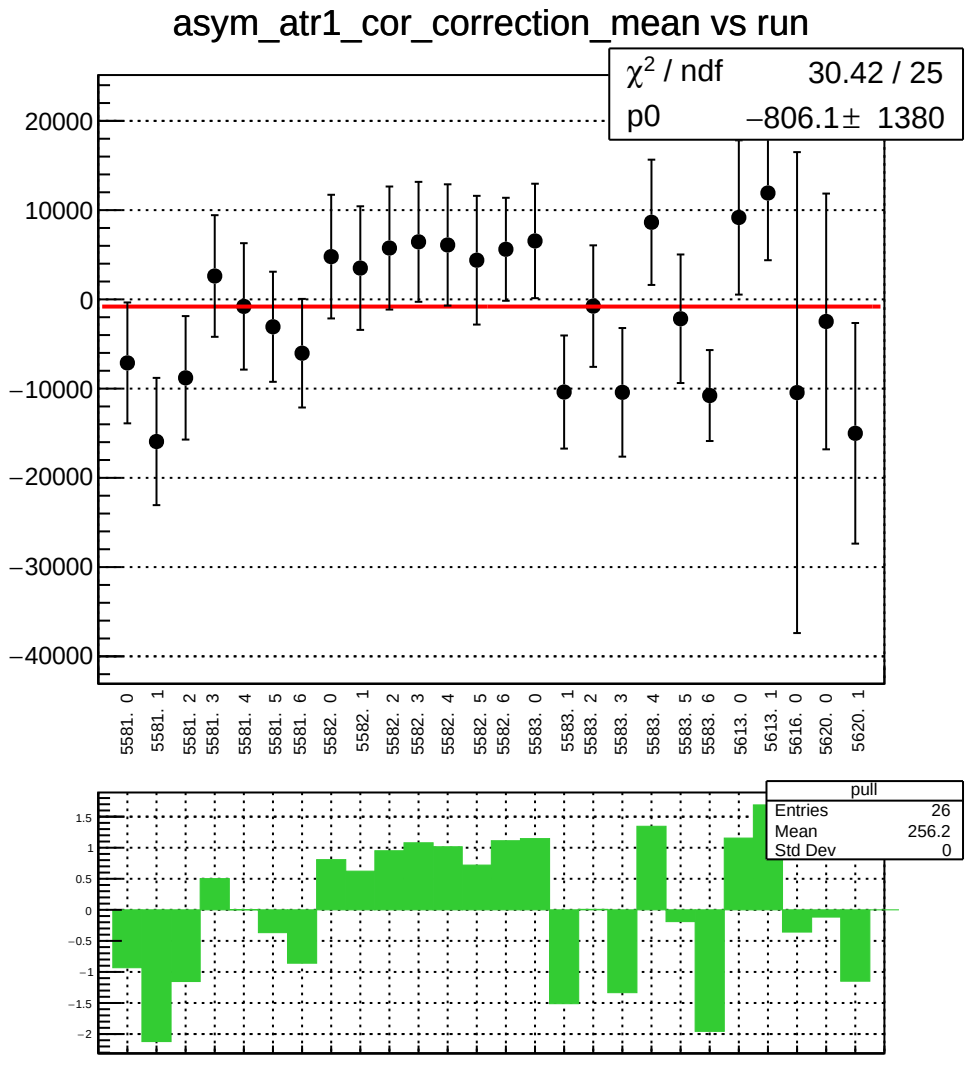

asym_atr1_reg_correction_mean vs run
χ² / ndf 35.25 / 32
p0 −594.3 ± 1372
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.07405
Std Dev 1.031
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

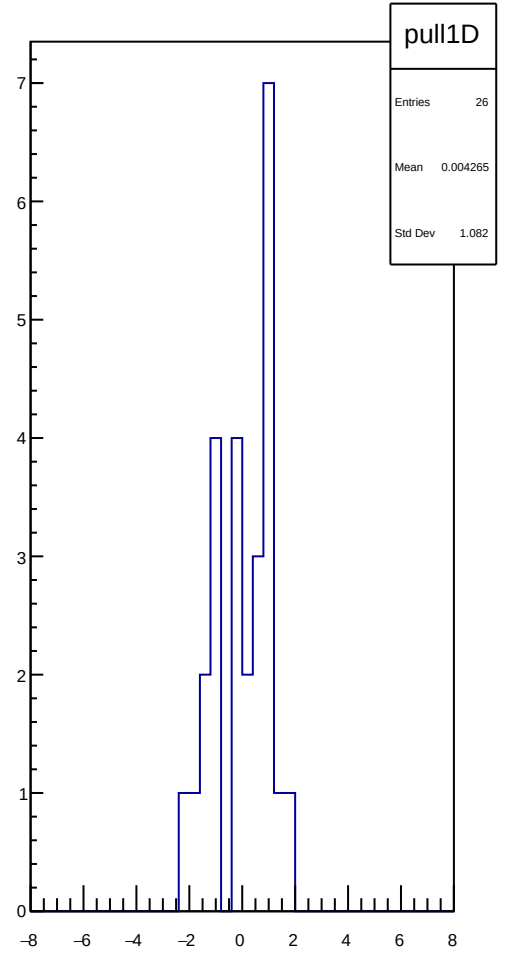

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.02e+05 / 32
p0 719.3 ± 0.97
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

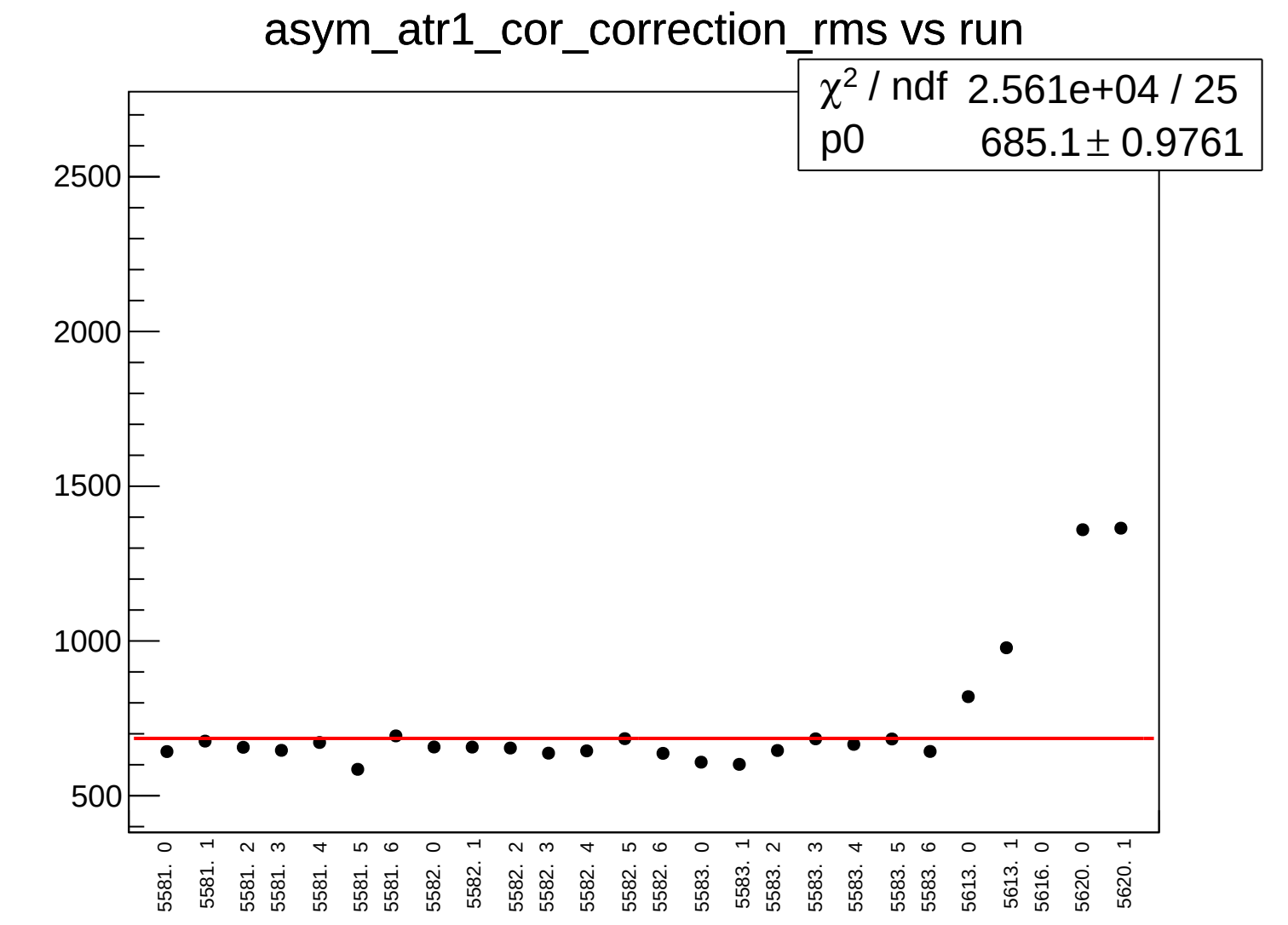

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 37.97 / 32
p0 −3541 ± 5018
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 33.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

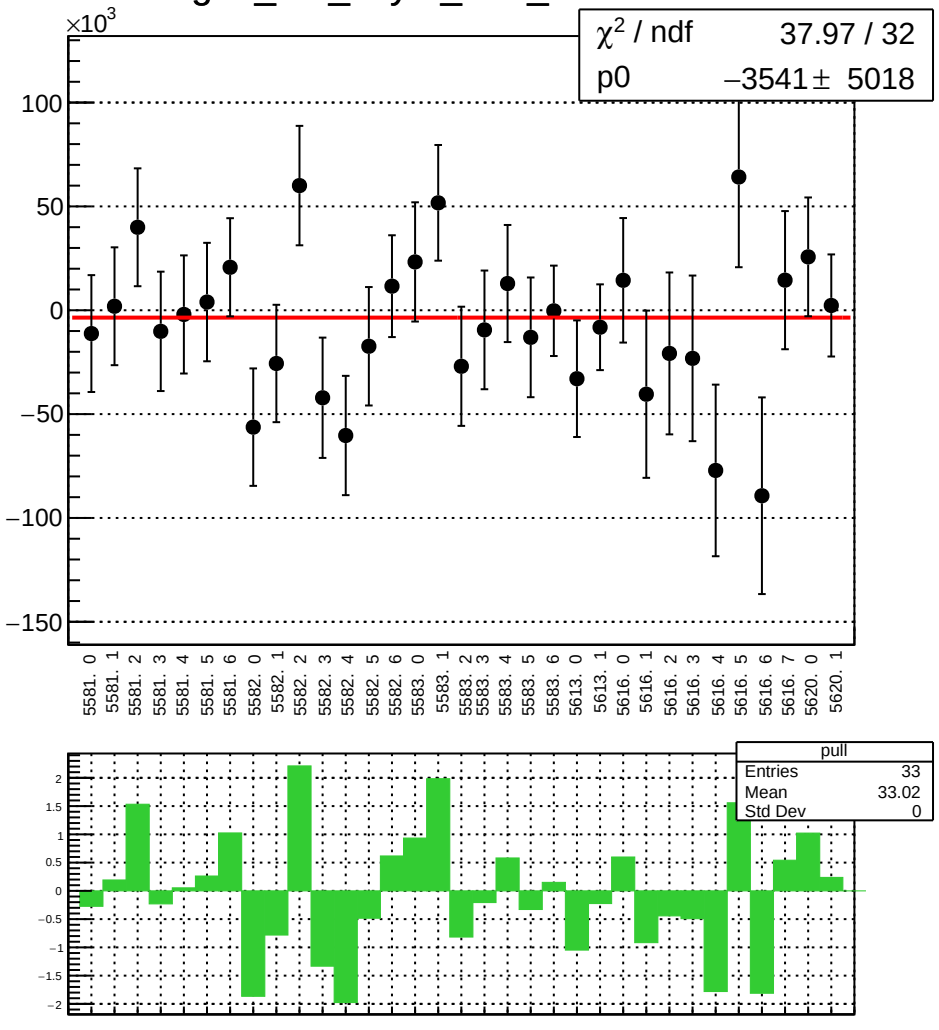

pull1D
Entries 33
Mean −0.04562
Std Dev 1.072
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

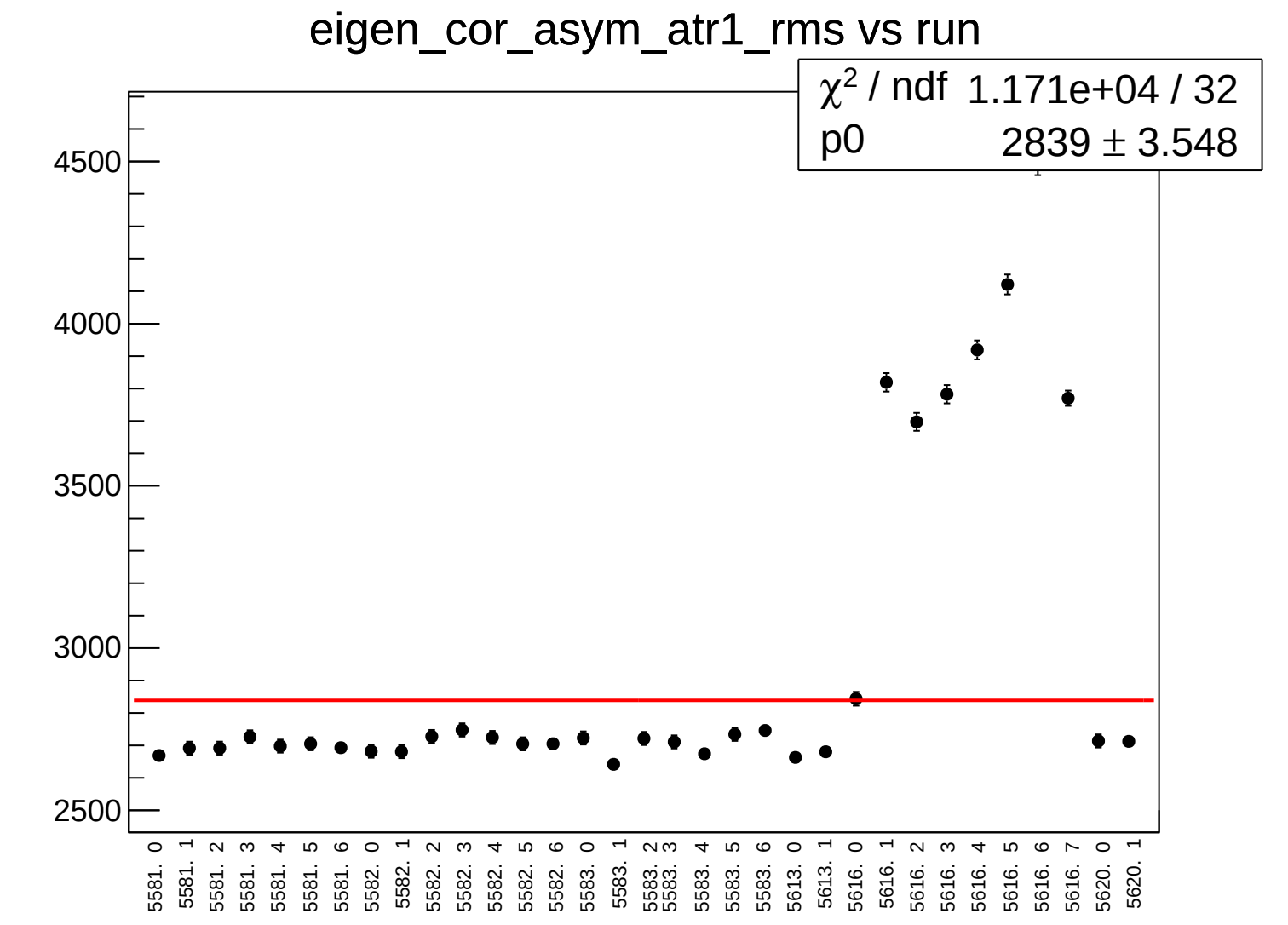

cor_asym_atr1_rms vs run
χ² / ndf 1.171e+04 / 32
p0 2839 ± 3.548
4500
4000
3500
3000
2500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

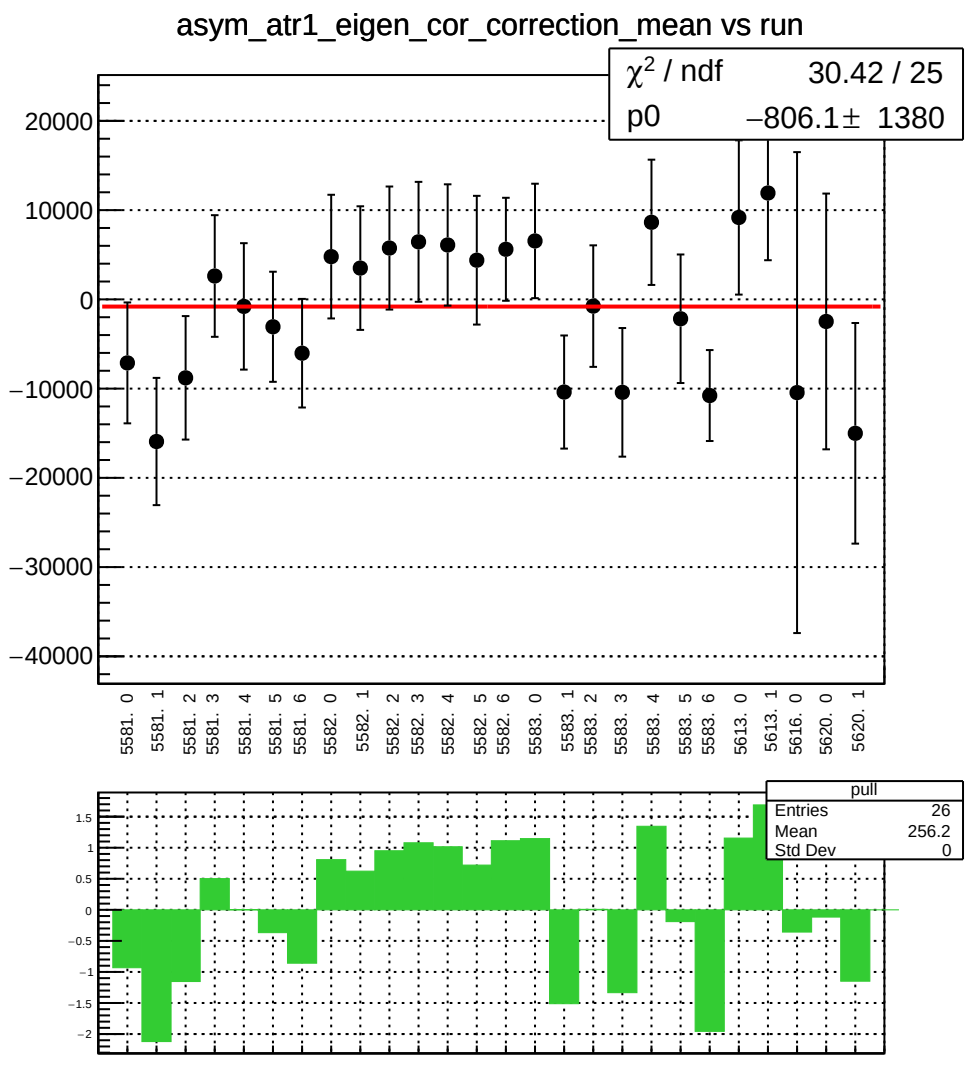

asym_atr1_cor_correction_mean vs run
χ² / ndf 30.42 / 25
p0 −806.1± 1380
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 256.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

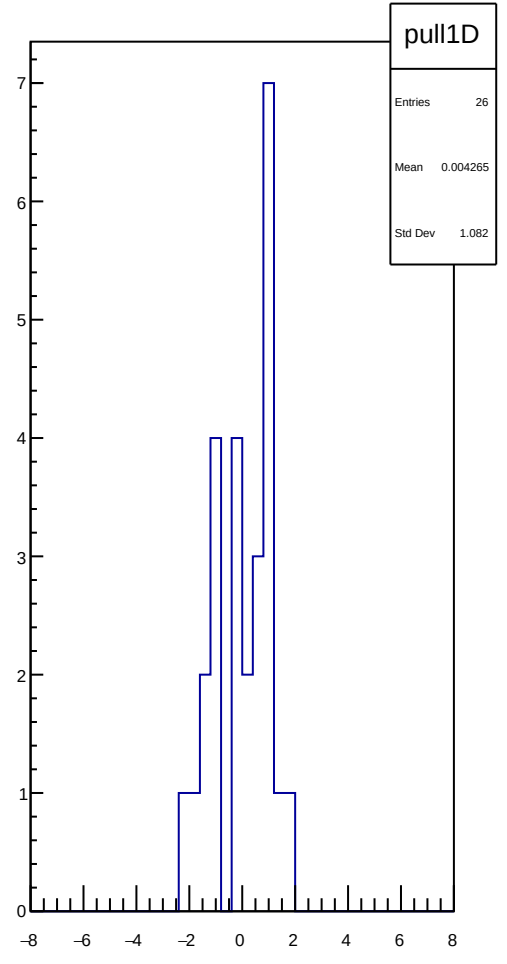

pull1D
Entries 26
Mean 0.004265
Std Dev 1.082
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

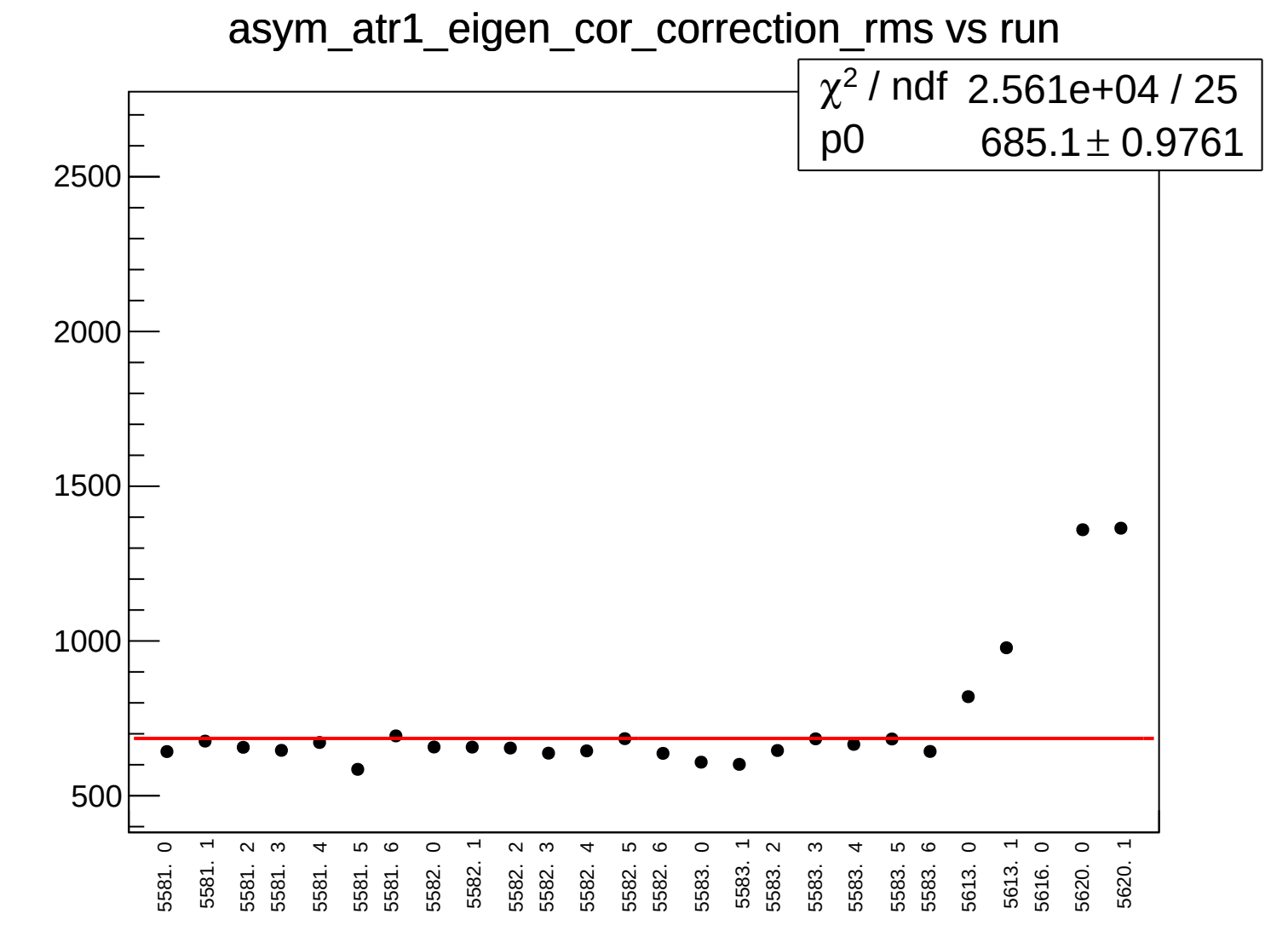

asym_atr1_cor_correction_rms vs run
χ² / ndf 2.561e+04 / 25
p0 685.1 ± 0.9761
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

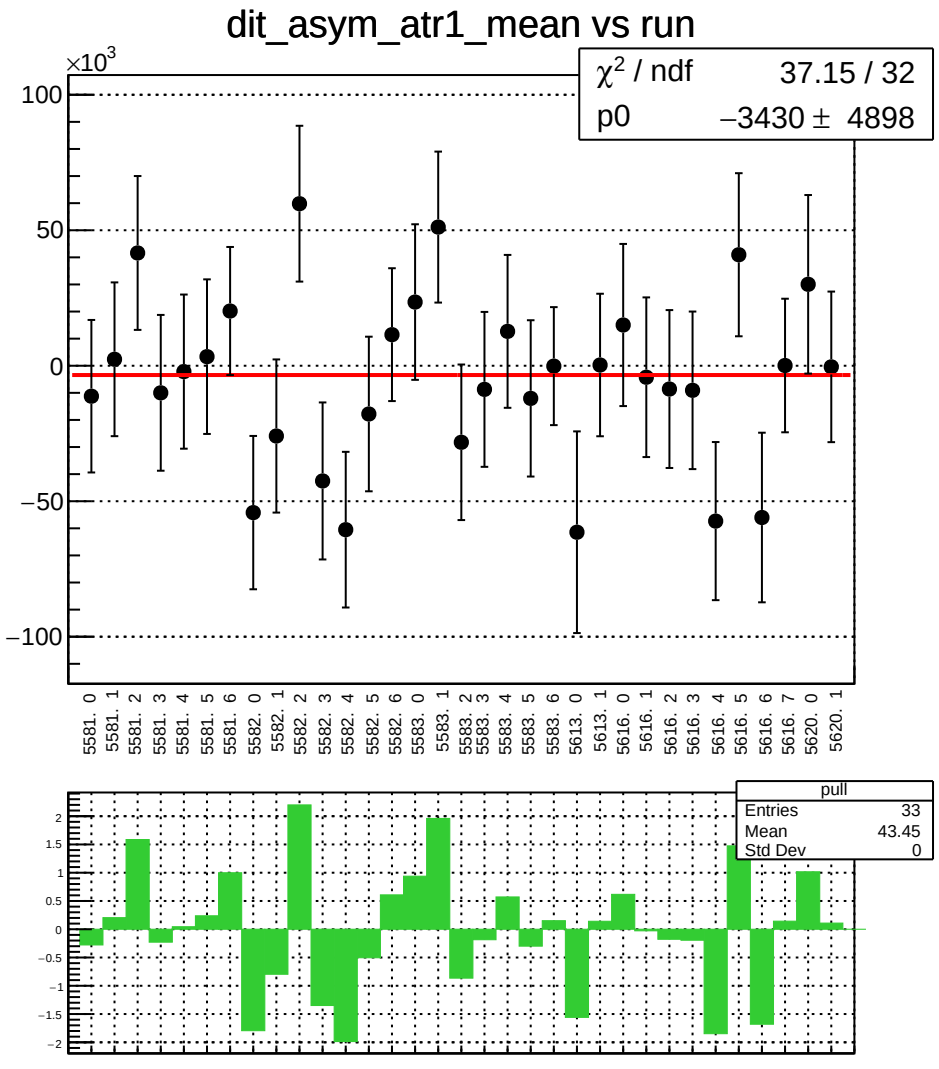

eigen_cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 37.97 / 32
p0 −3541 ± 5018
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 33.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.04562
Std Dev 1.072
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

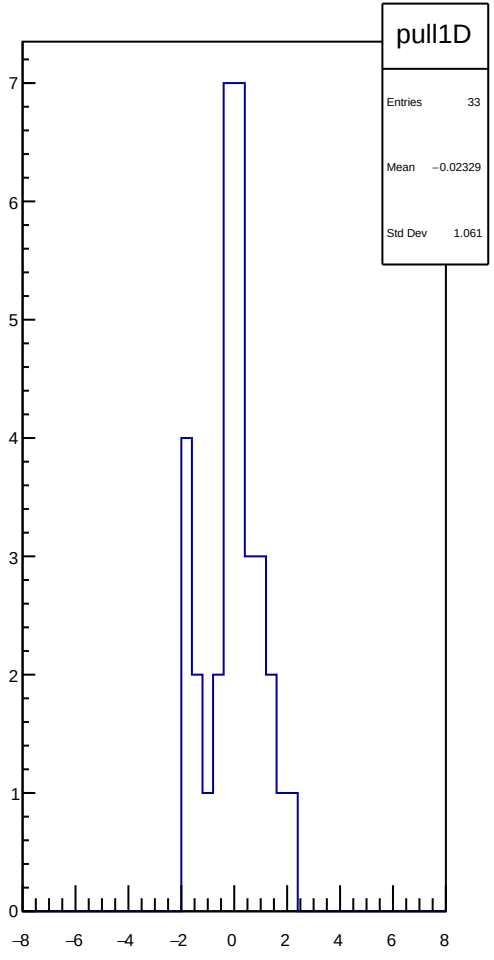

eigen_cor_asym_atr1_rms vs run
χ² / ndf 1.171e+04 / 32
p0 2839 ± 3.548
4500
4000
3500
3000
2500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

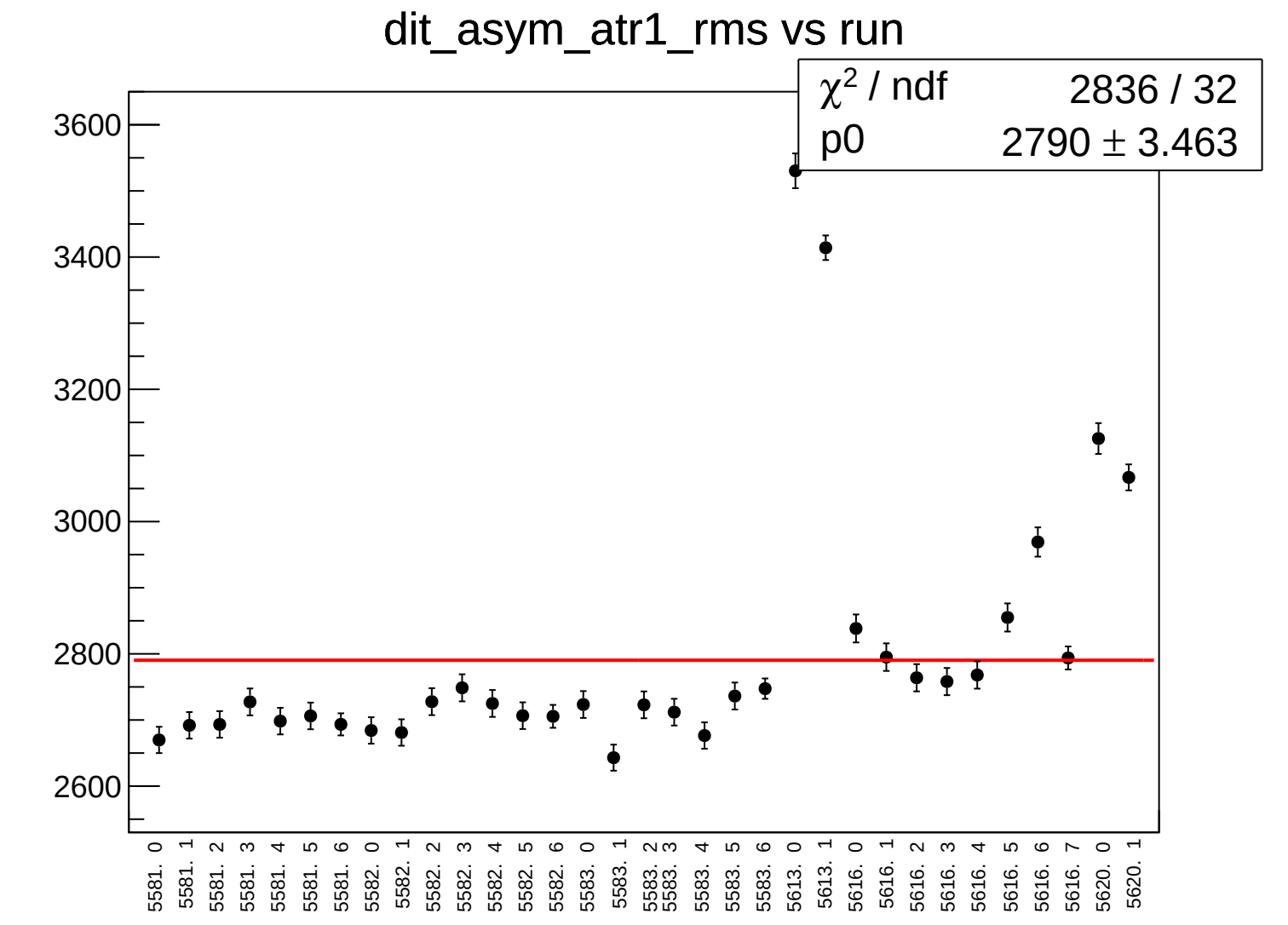

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 30.42 / 25
p0 −806.1± 1380
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 256.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

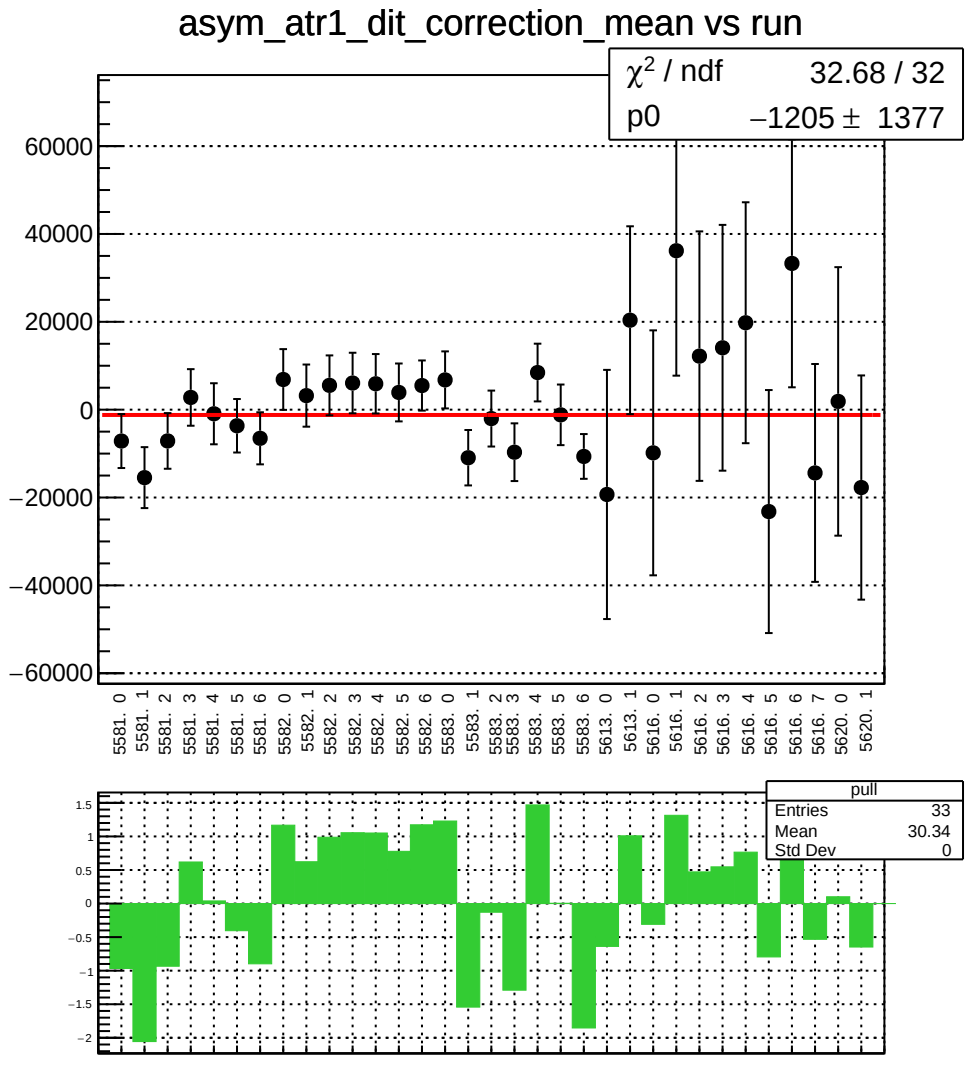

pull1D
Entries 26
Mean 0.004265
Std Dev 1.082
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

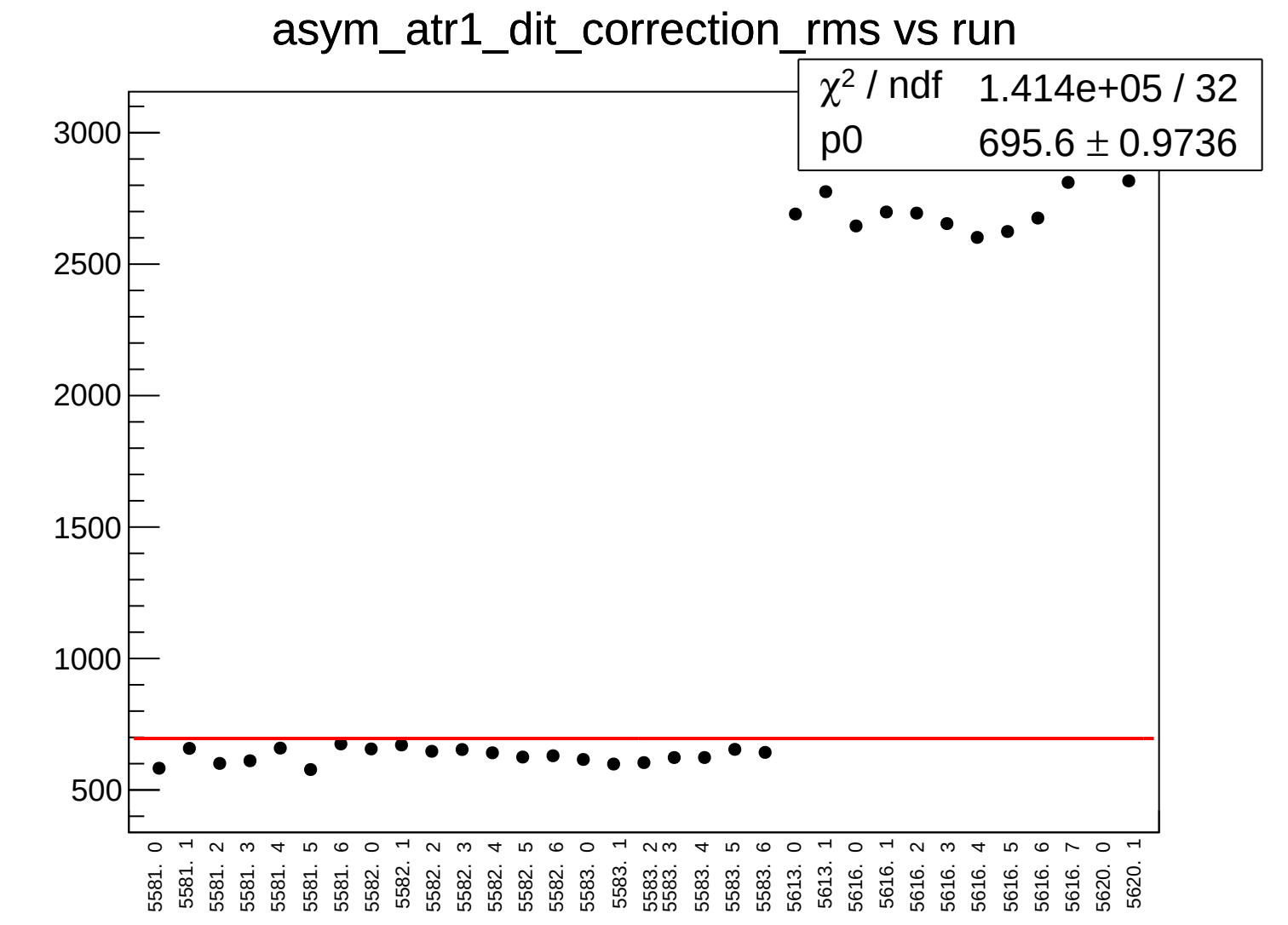

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 2.561e+04 / 25
p0 685.1 ± 0.9761
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

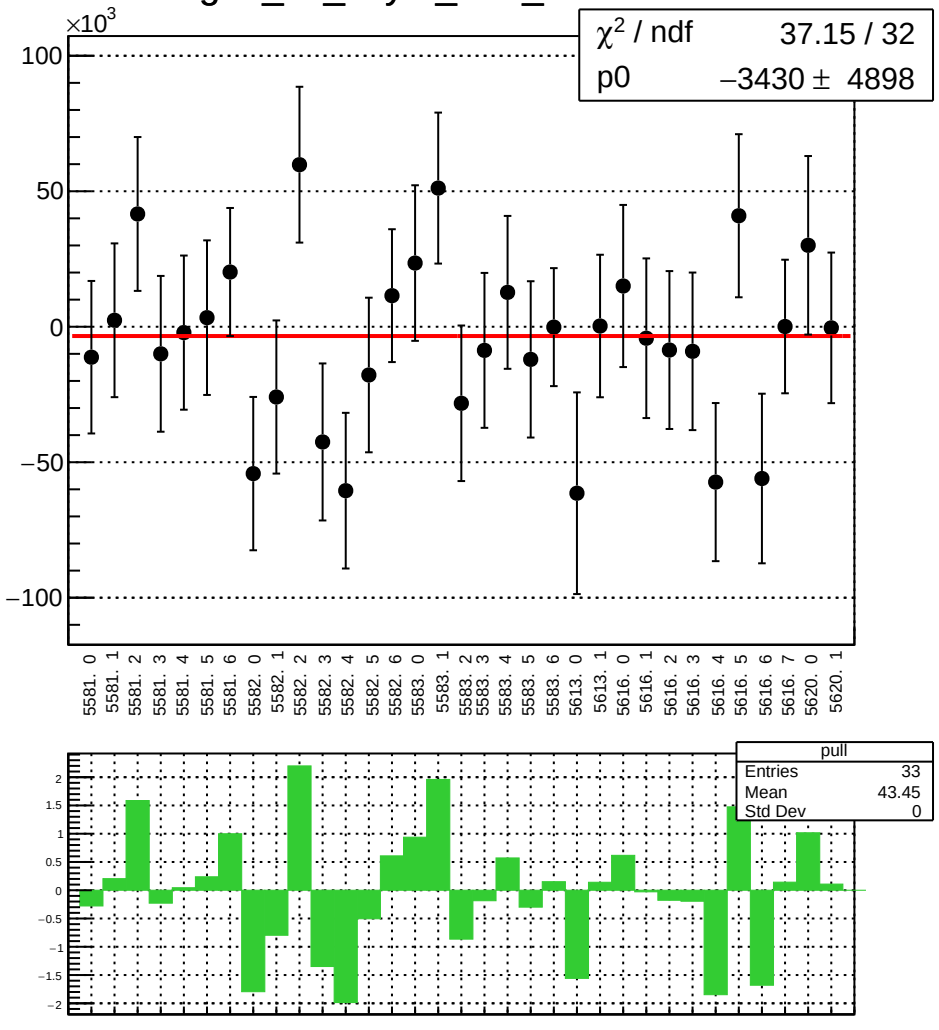

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 37.15 / 32
p0 −3430 ± 4898
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 43.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

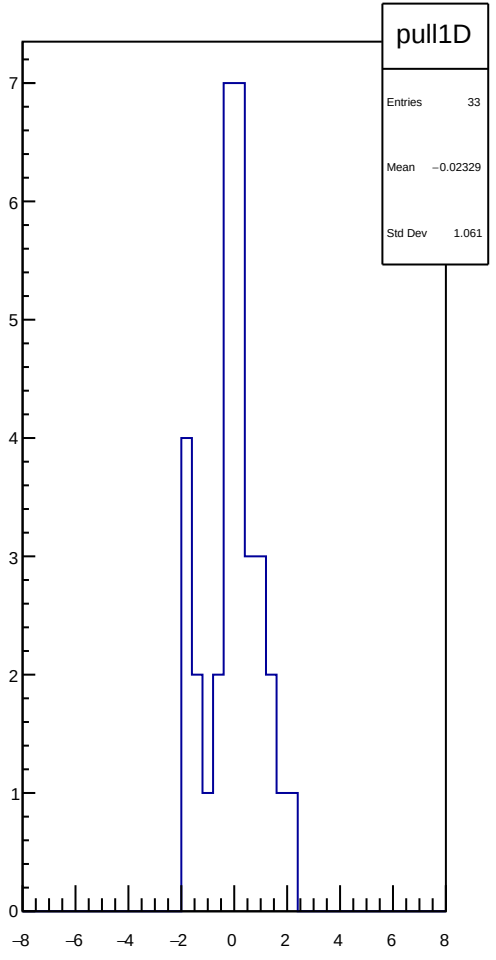

pull1D
Entries 33
Mean −0.02329
Std Dev 1.061
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

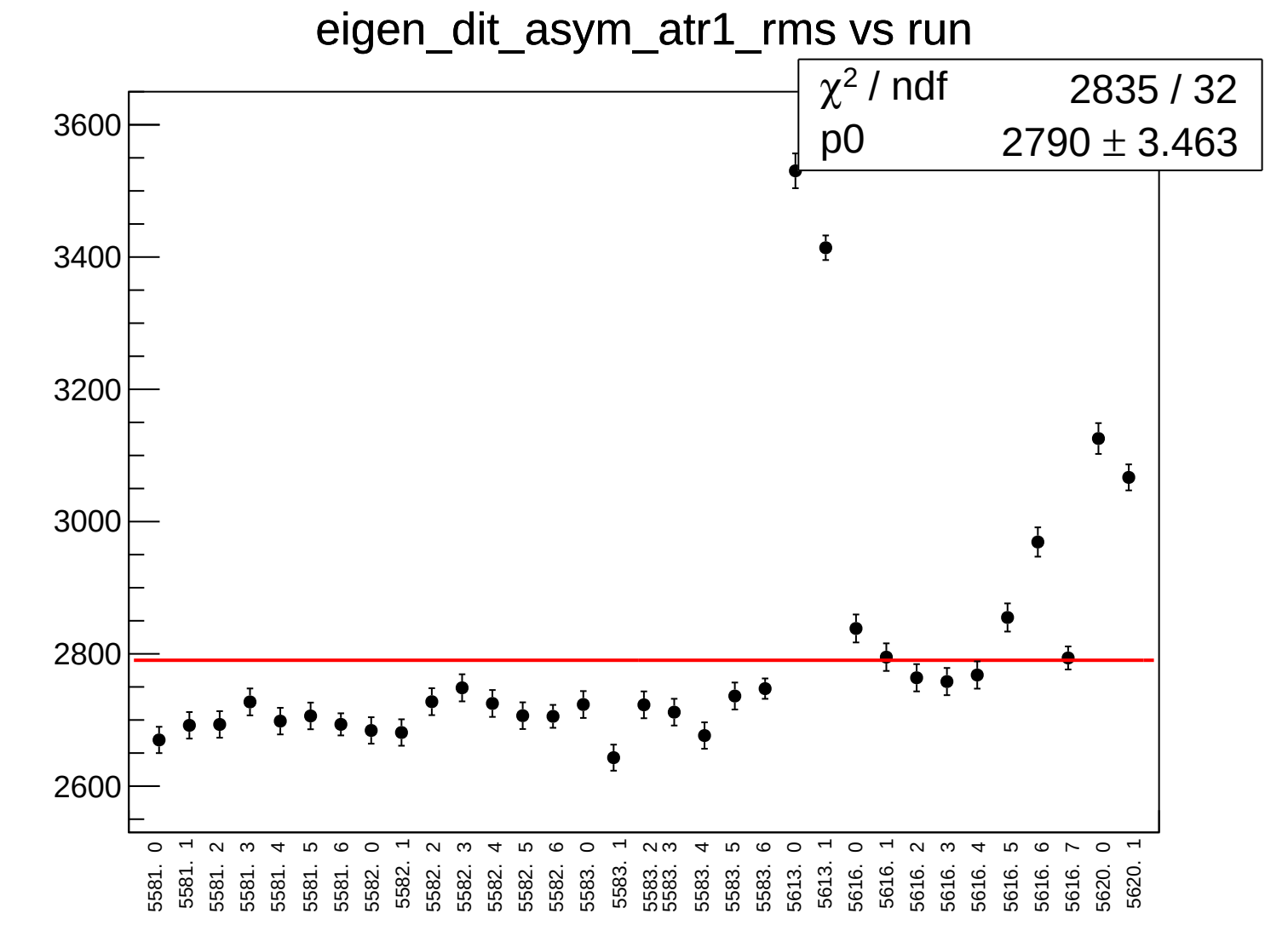

dit_asym_atr1_rms vs run
χ² / ndf 2836 / 32
p0 2790 ± 3.463
3600
3400
3200
3000
2800
2600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

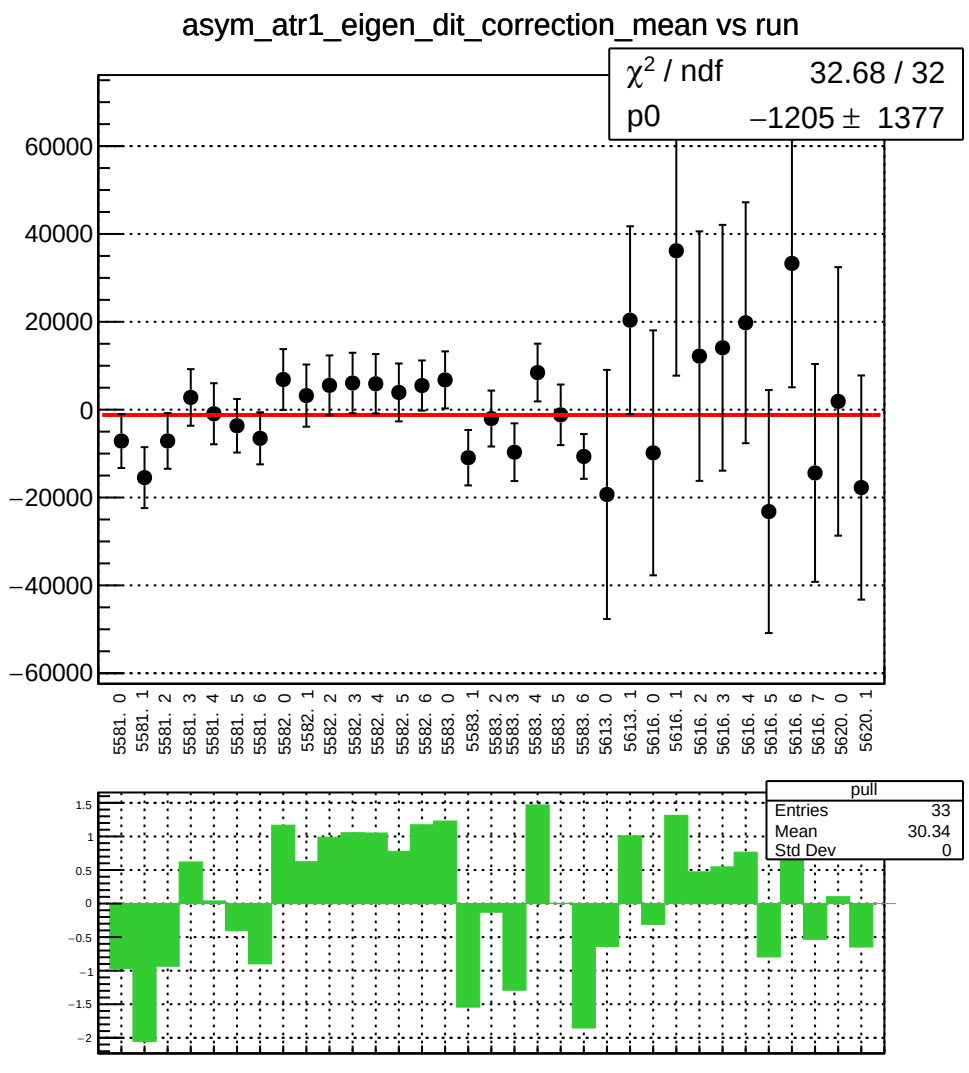

asym_atr1_dit_correction_mean vs run
χ² / ndf 32.68 / 32
p0 −1205 ± 1377
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 30.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.07973
Std Dev 0.9919
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

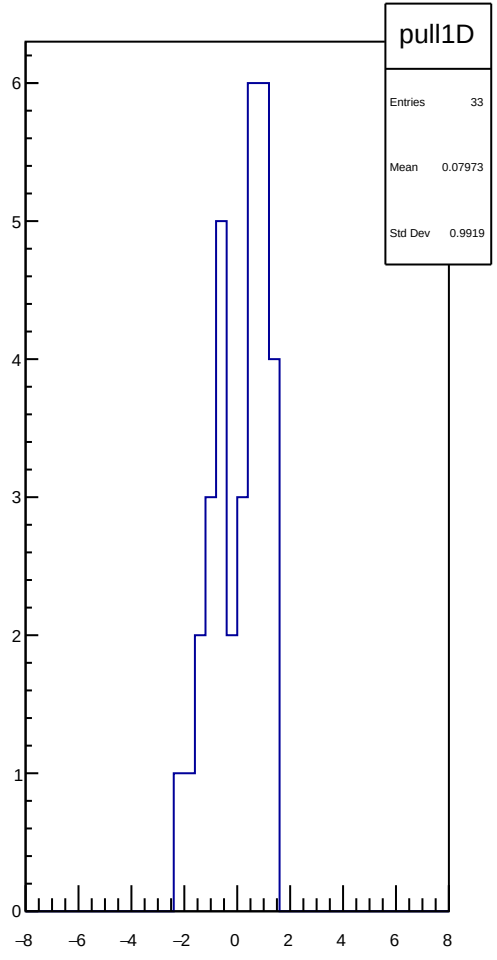

asym_atr1_dit_correction_rms vs run
χ² / ndf 1.414e+05 / 32
p0 695.6 ± 0.9736
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

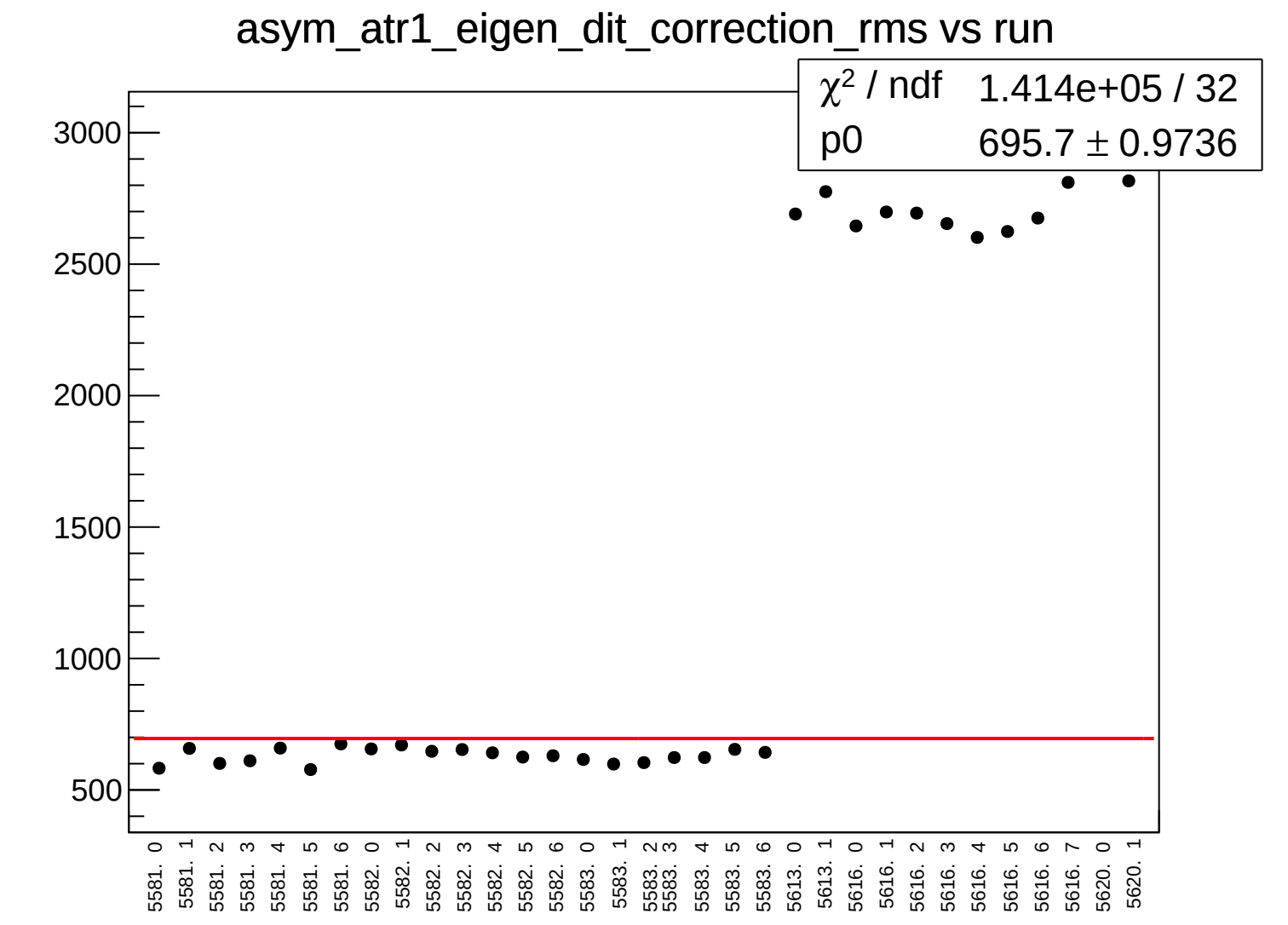

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 37.15 / 32
p0 −3430 ± 4898
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 43.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

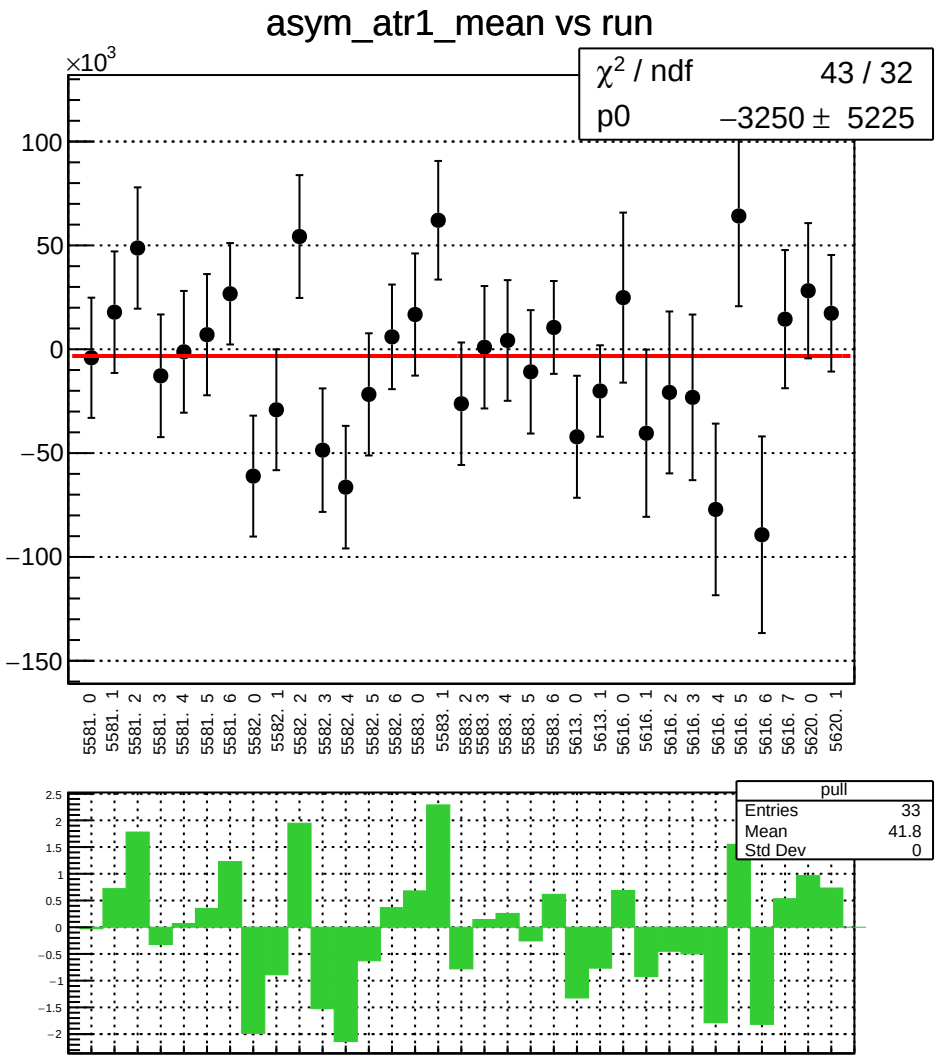

pull1D
Entries 33
Mean −0.02329
Std Dev 1.061
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

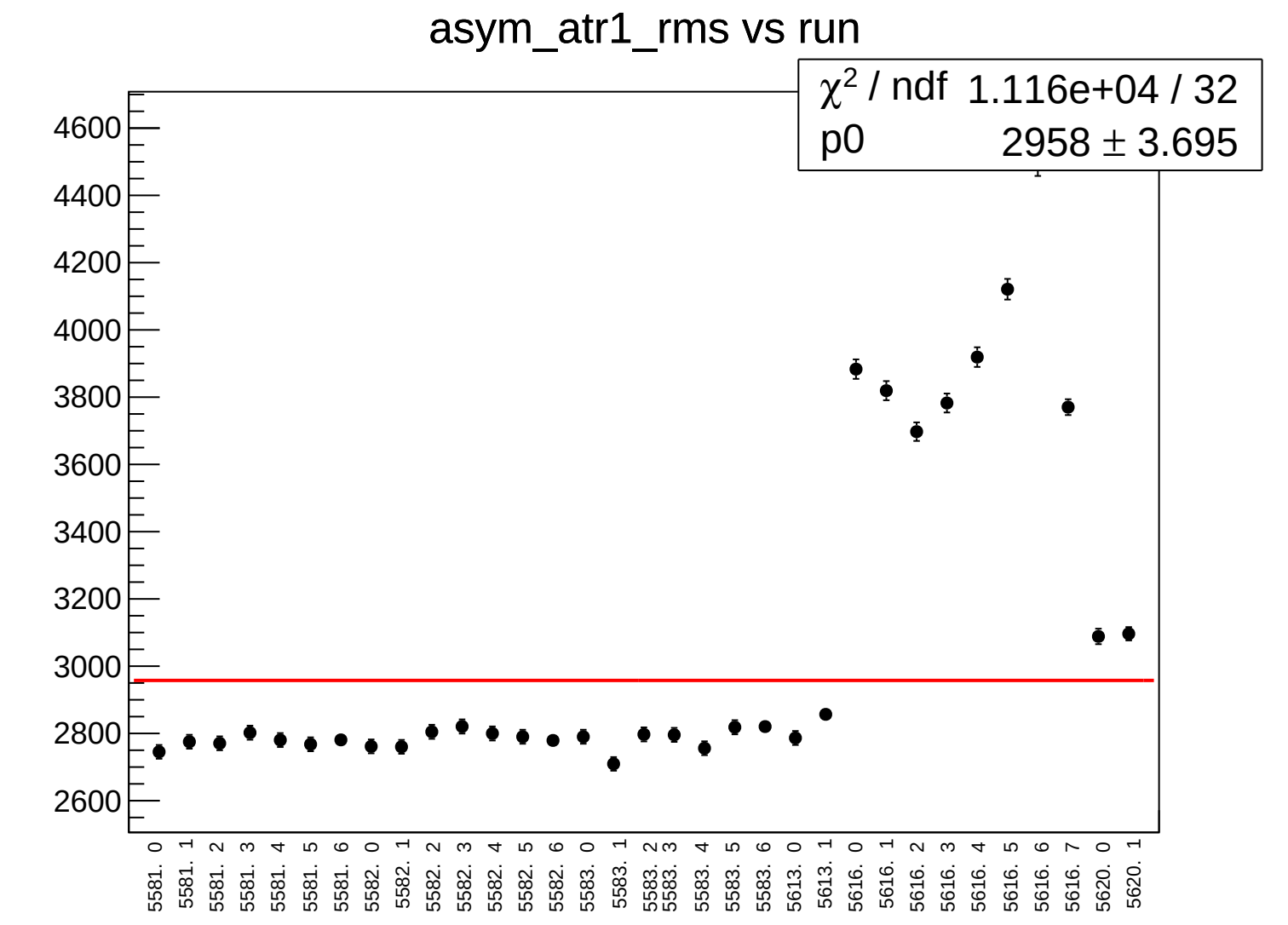

eigen_dit_asym_atr1_rms vs run
χ² / ndf 2835 / 32
p0 2790 ± 3.463
3600
3400
3200
3000
2800
2600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

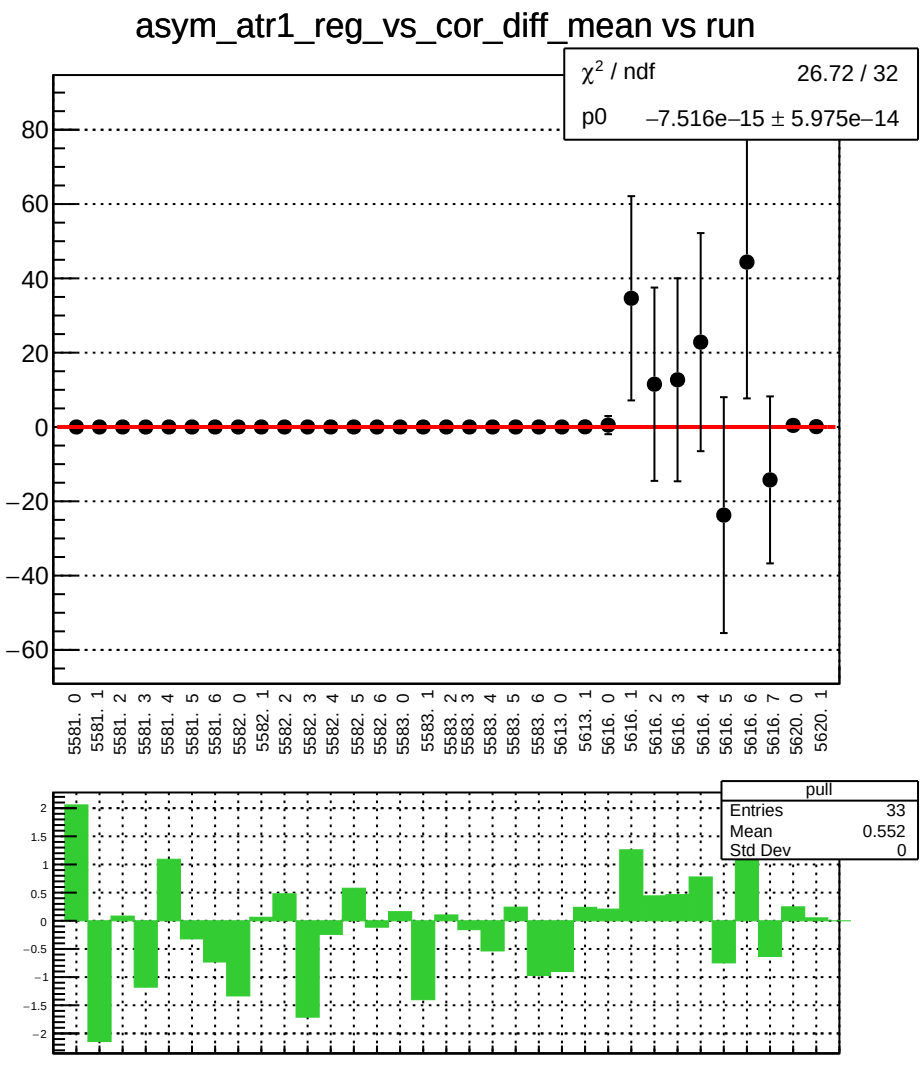

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 32.68 / 32
p0 −1205 ± 1377
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 30.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

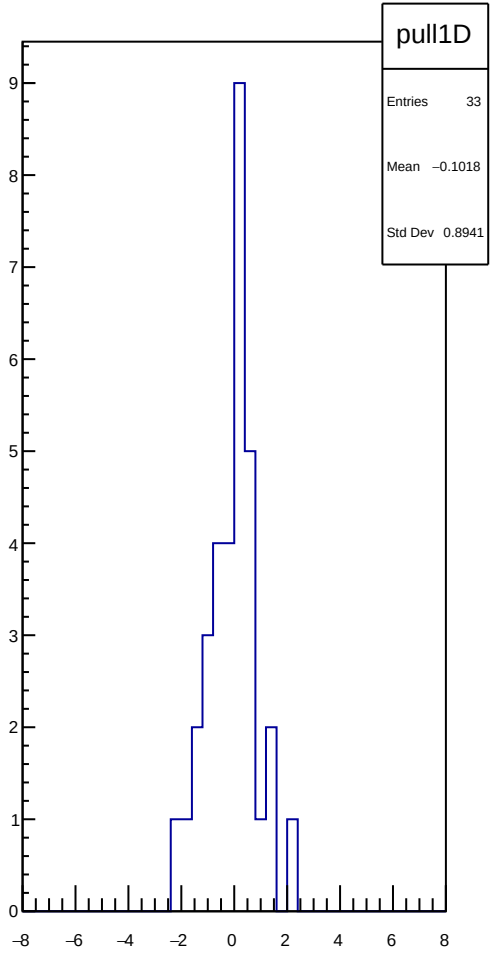

pull1D
Entries 33
Mean 0.07973
Std Dev 0.9919
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

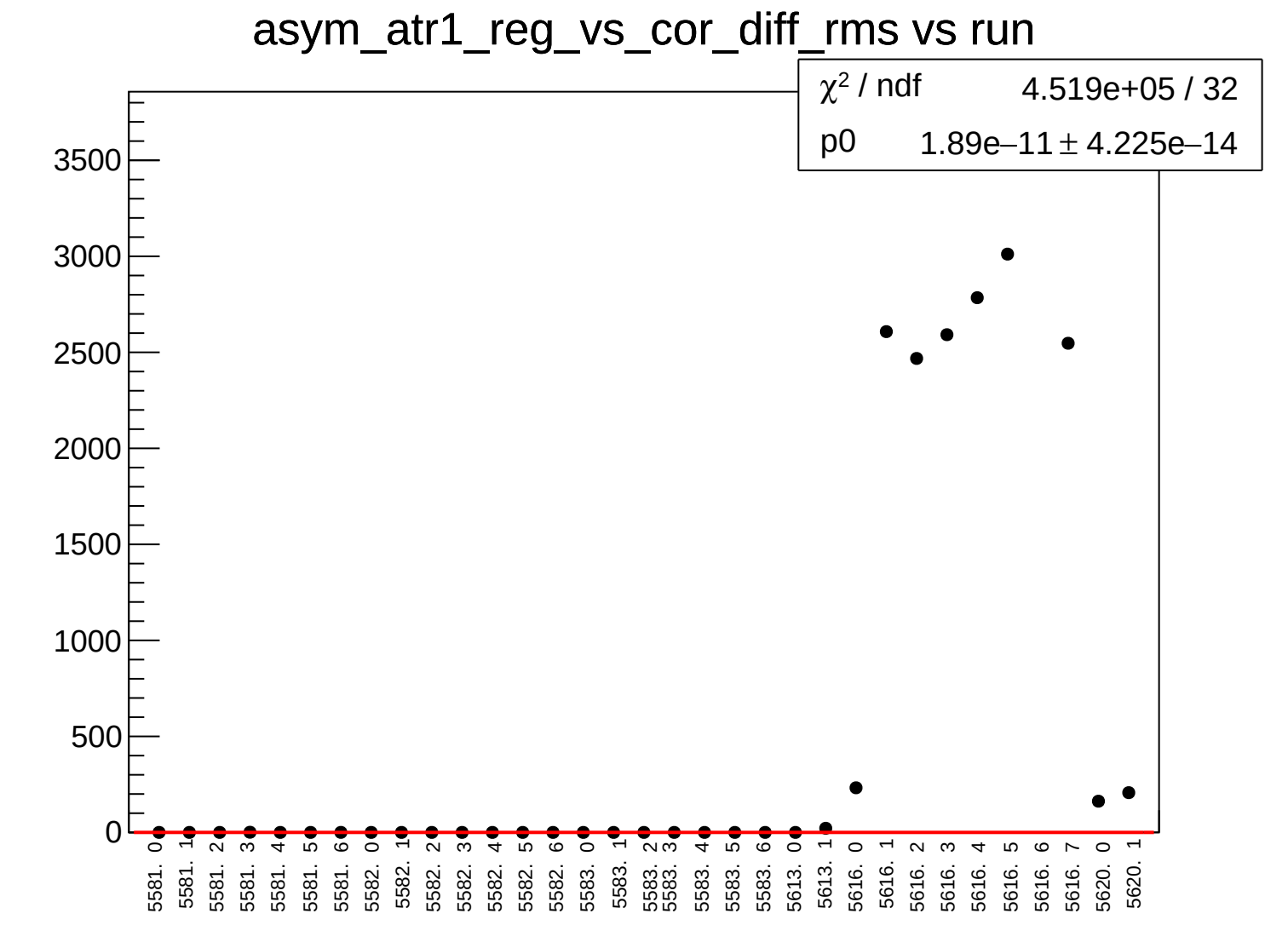

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 1.414e+05 / 32
p0 695.7 ± 0.9736
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

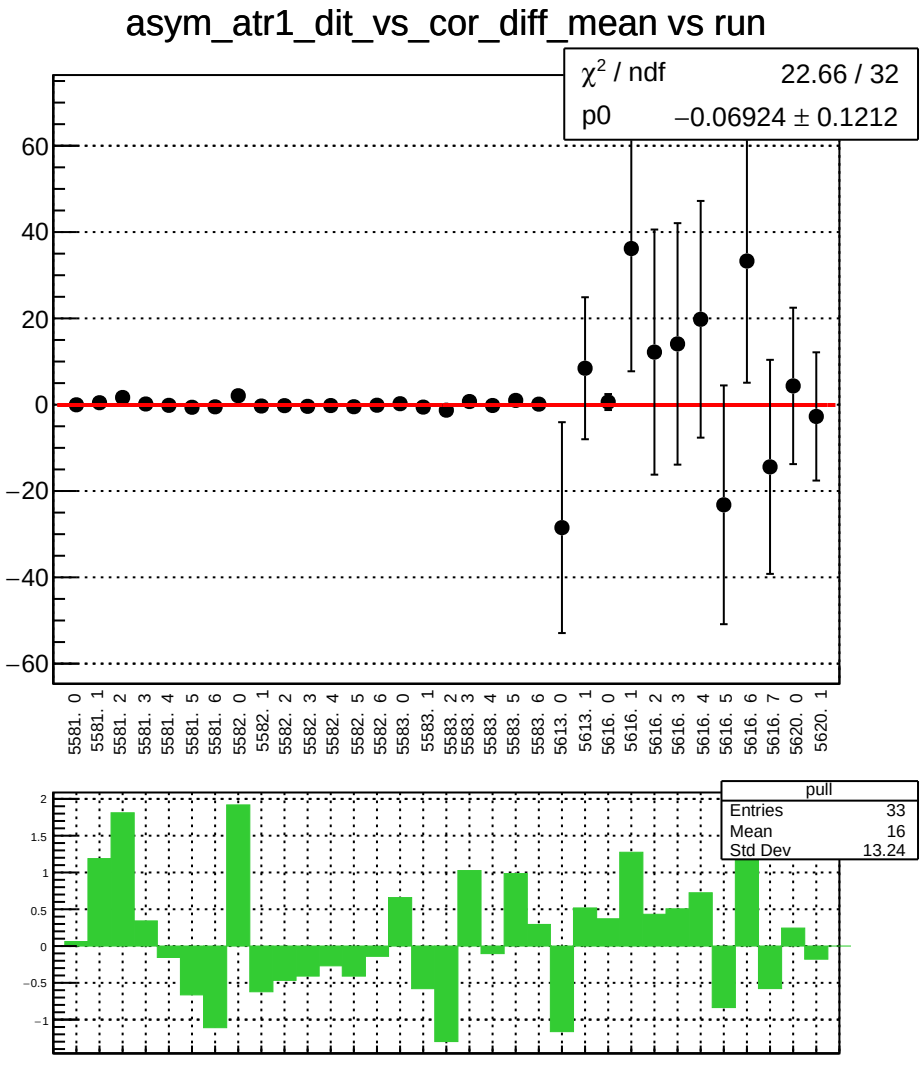

asym_atr1_mean vs run
×10^3
χ^2 / ndf 43 / 32
p0 −3250 ± 5225
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 41.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.0366
Std Dev 1.141
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

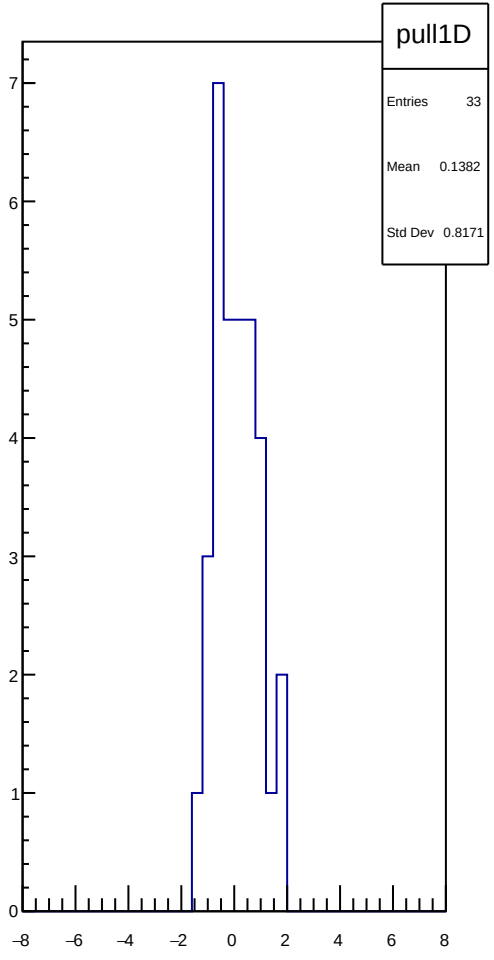

asym_atr1_rms vs run
χ² / ndf 1.116e+04 / 32
p0 2958 ± 3.695
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

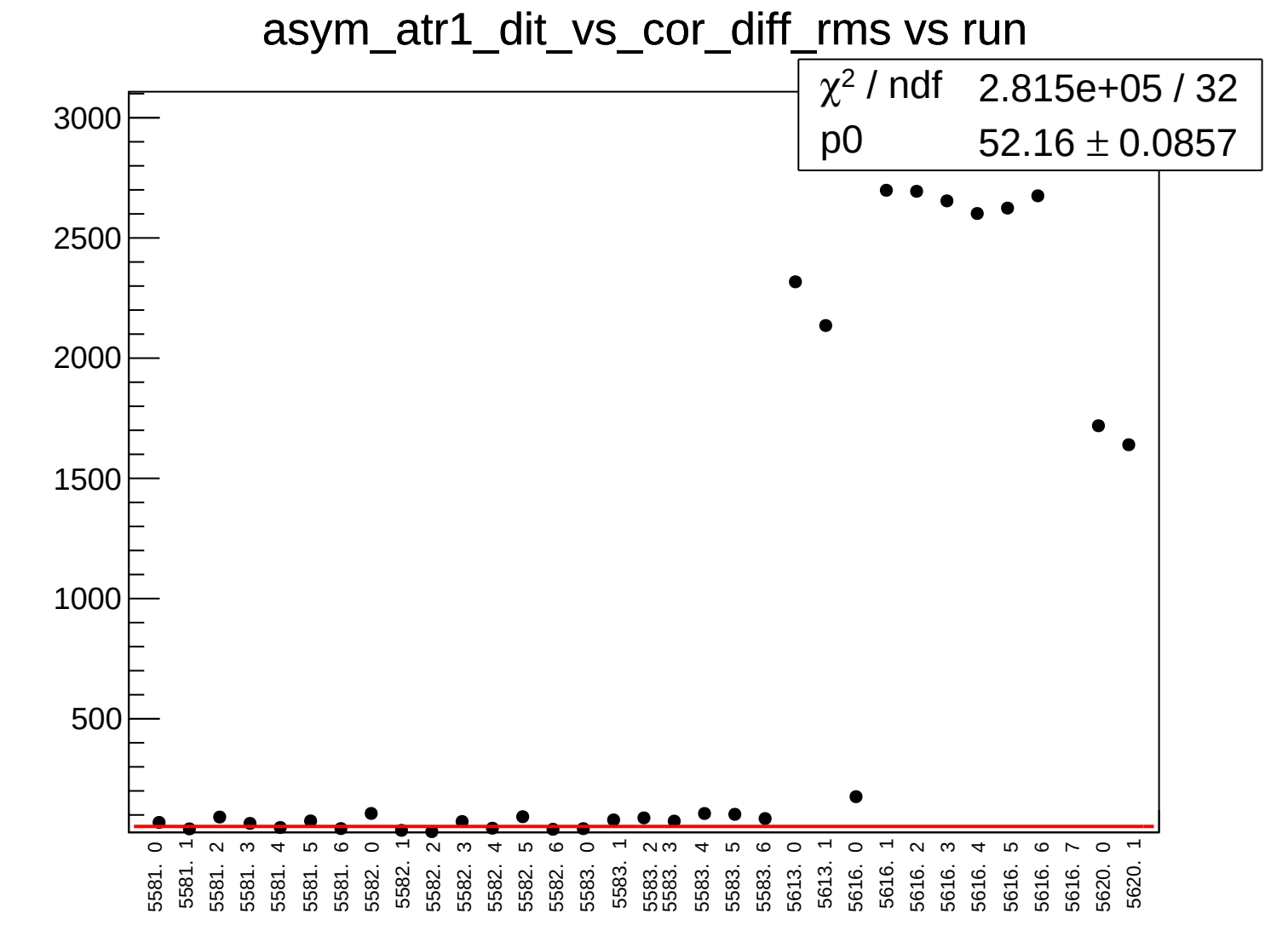

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 26.72 / 32
p0 −7.516e−15 ± 5.975e−14
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 0.552
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

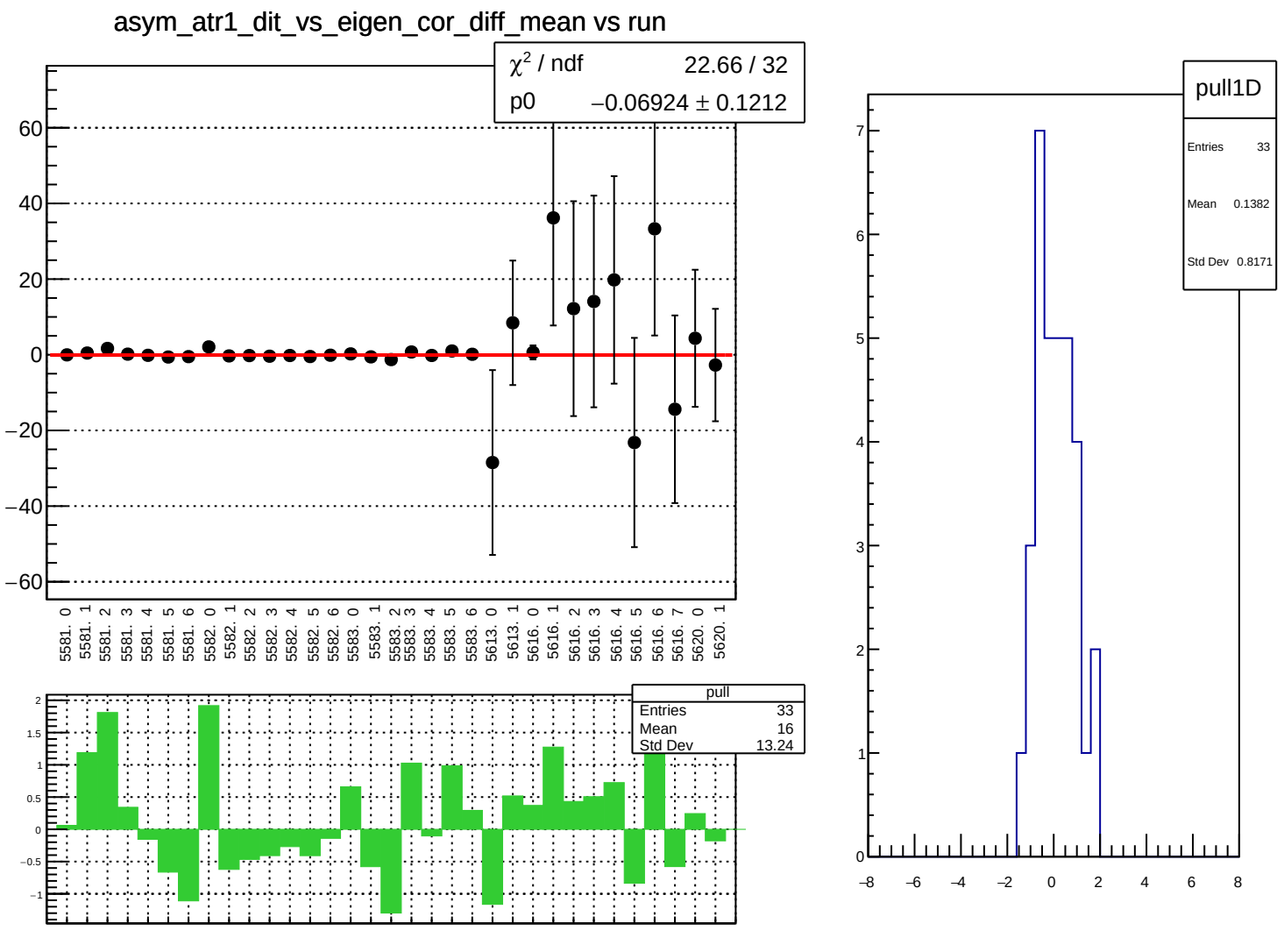

pull1D
Entries 33
Mean −0.1018
Std Dev 0.8941
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

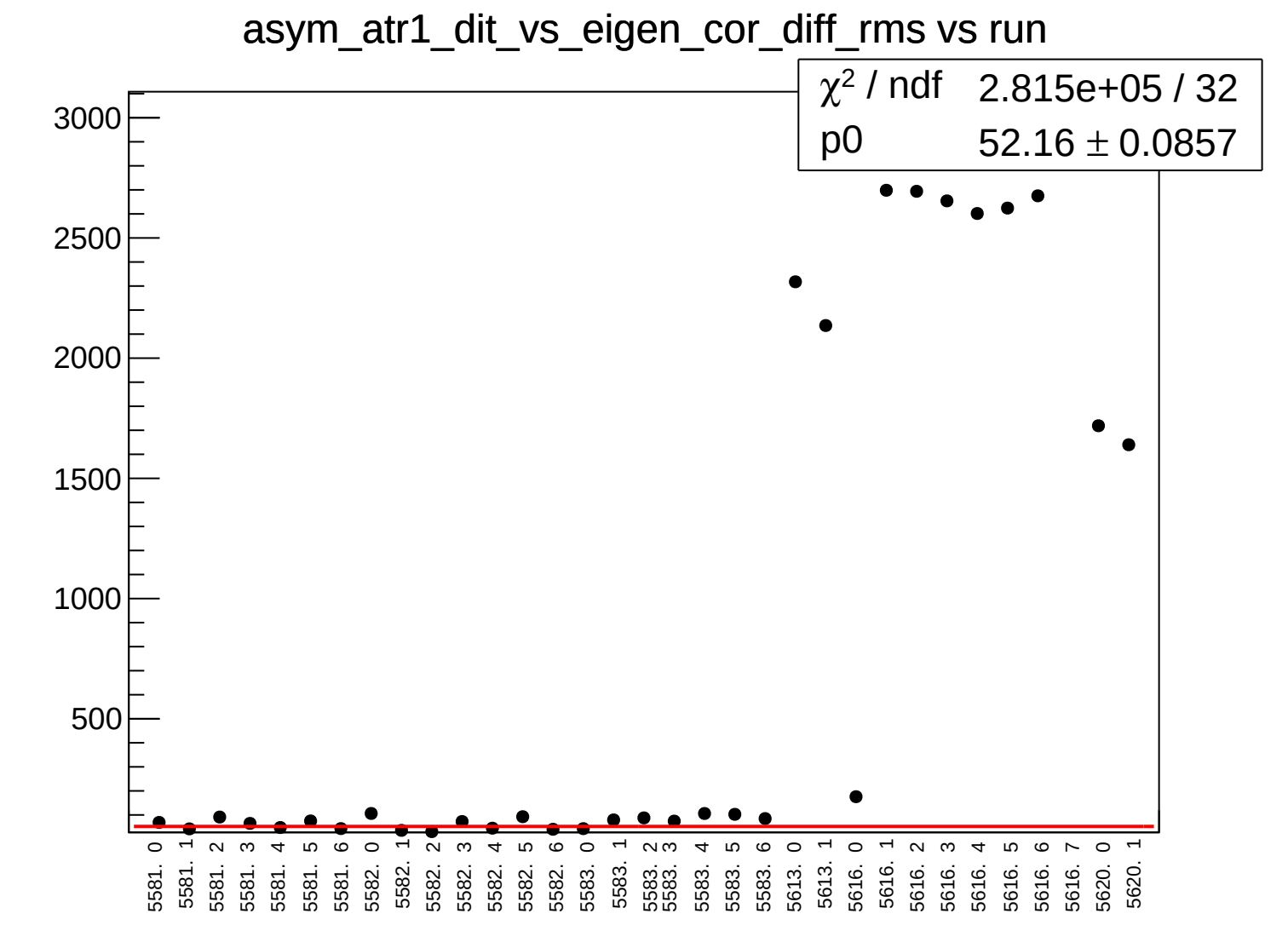

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 4.519e+05 / 32
p0 1.89e−11 ± 4.225e−14
3500
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

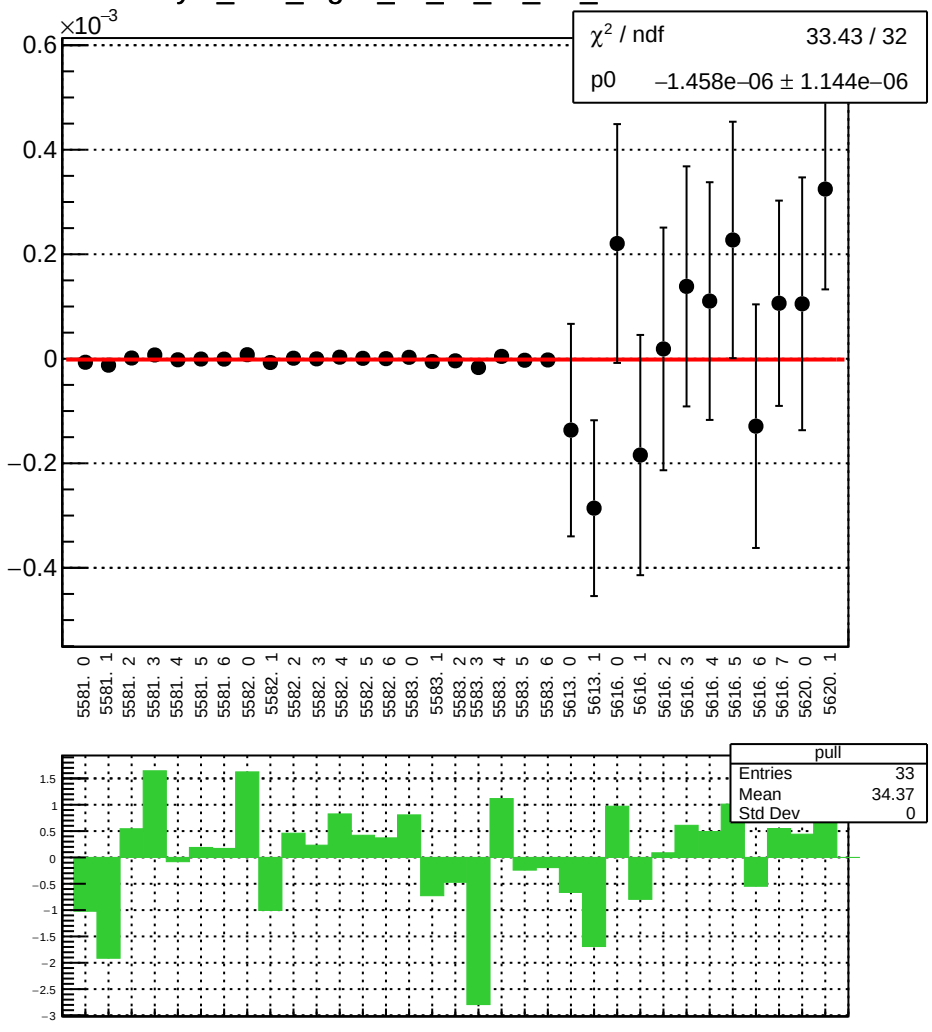

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 22.66 / 32
p0 −0.06924 ± 0.1212
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16
Std Dev 13.24
2
1.5
1
0.5
0
−0.5
−1

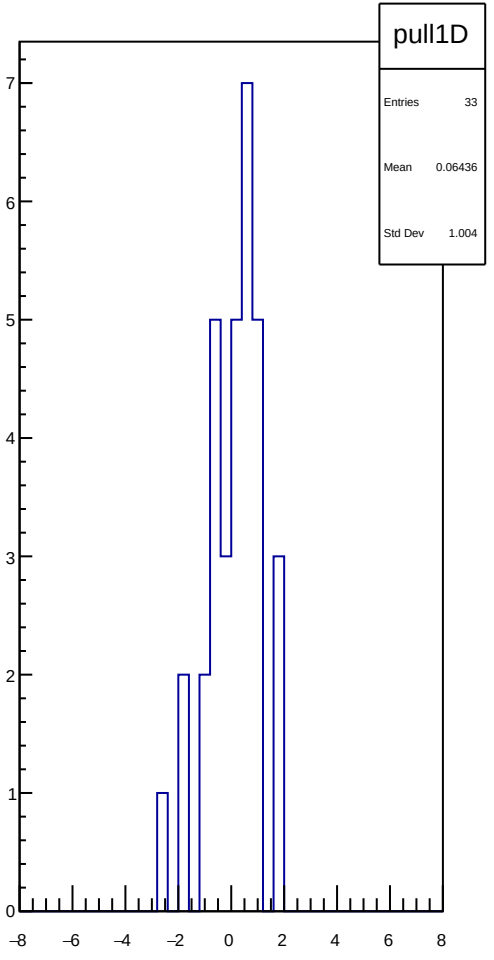

pull1D
Entries 33
Mean 0.1382
Std Dev 0.8171
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

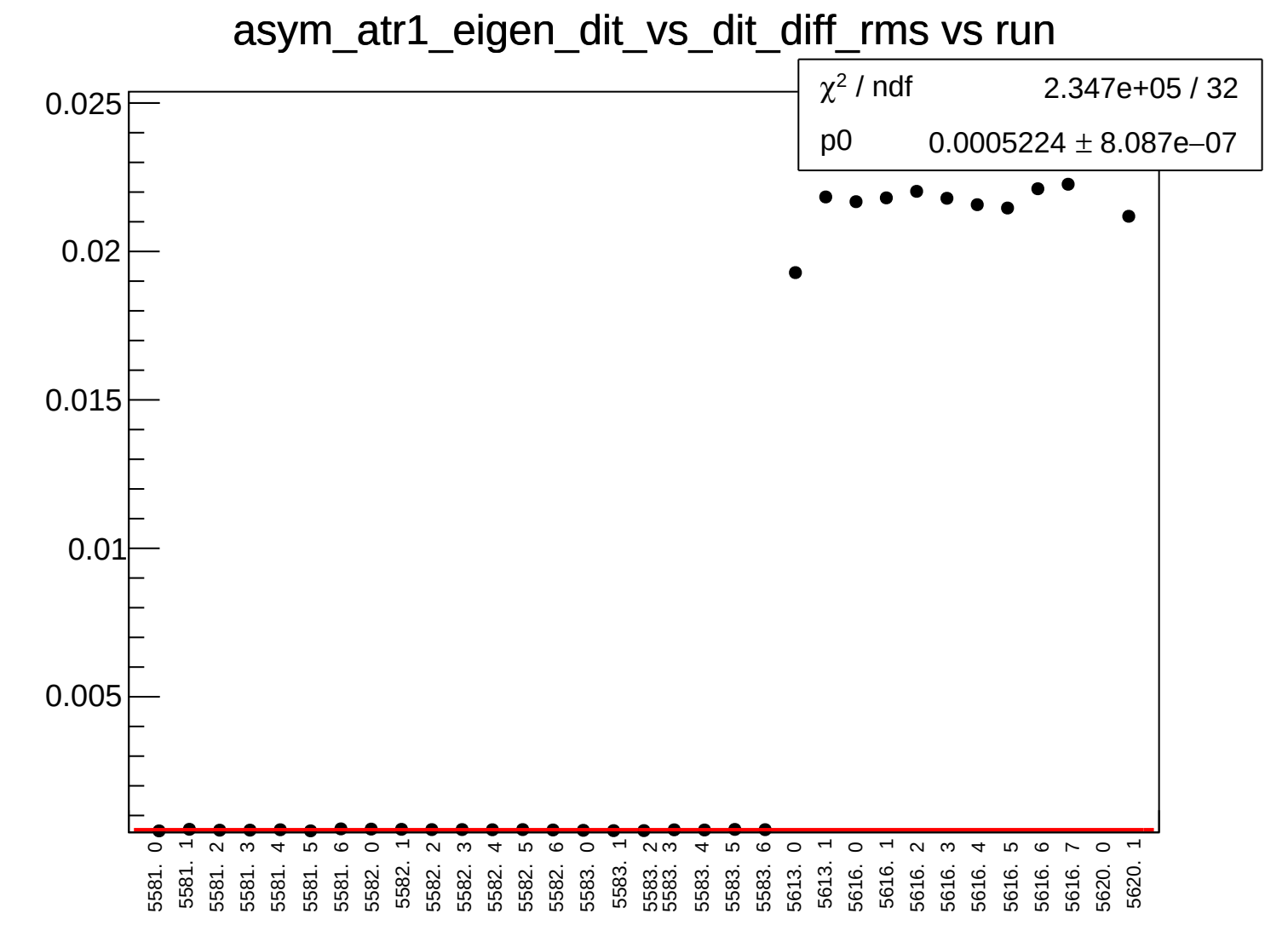

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.815e+05 / 32
p0 52.16 ± 0.0857
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

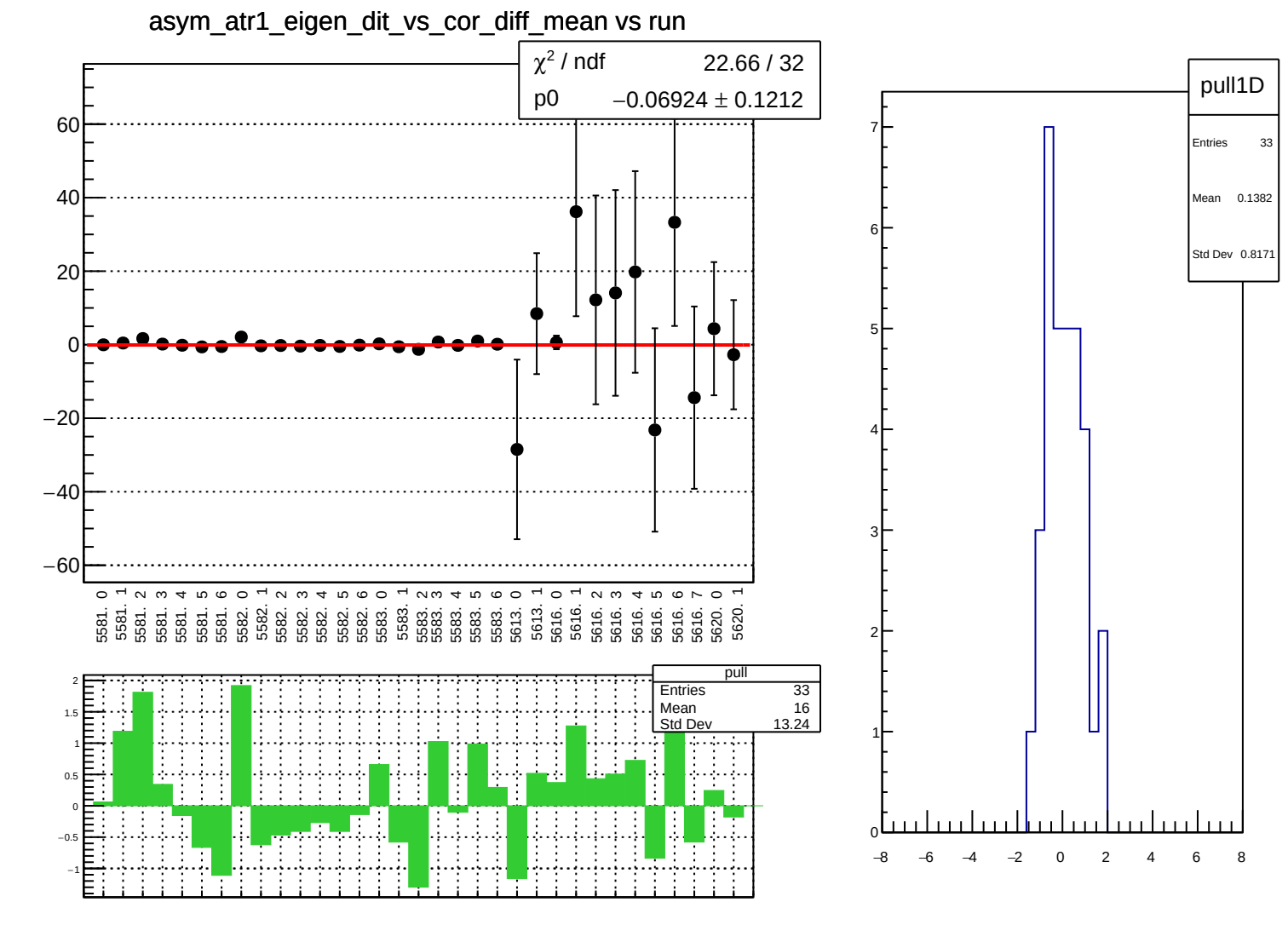

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.66 / 32
p0 −0.06924 ± 0.1212
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16
Std Dev 13.24
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.1382
Std Dev 0.8171
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

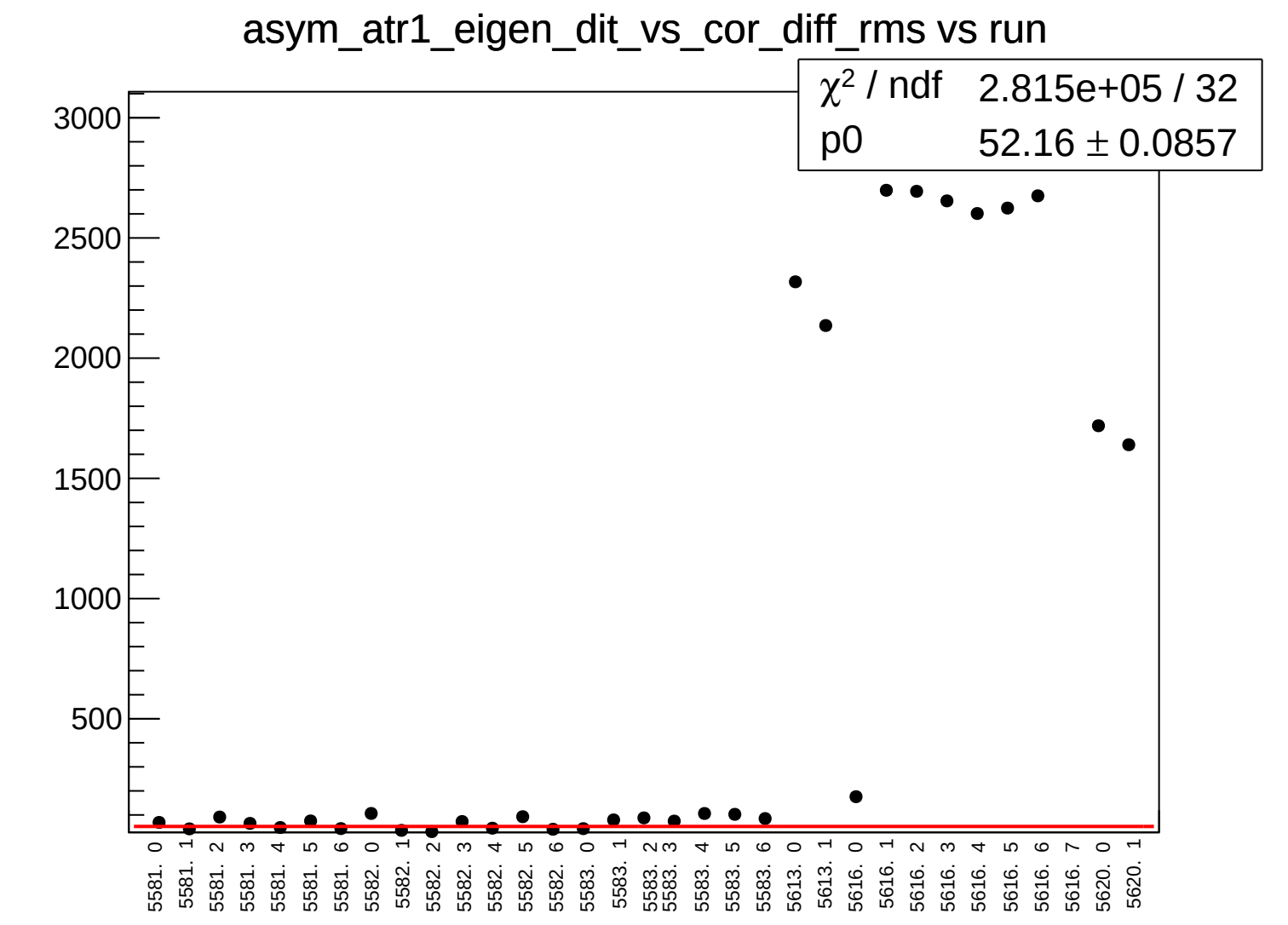

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.815e+05 / 32
p0 52.16 ± 0.0857
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

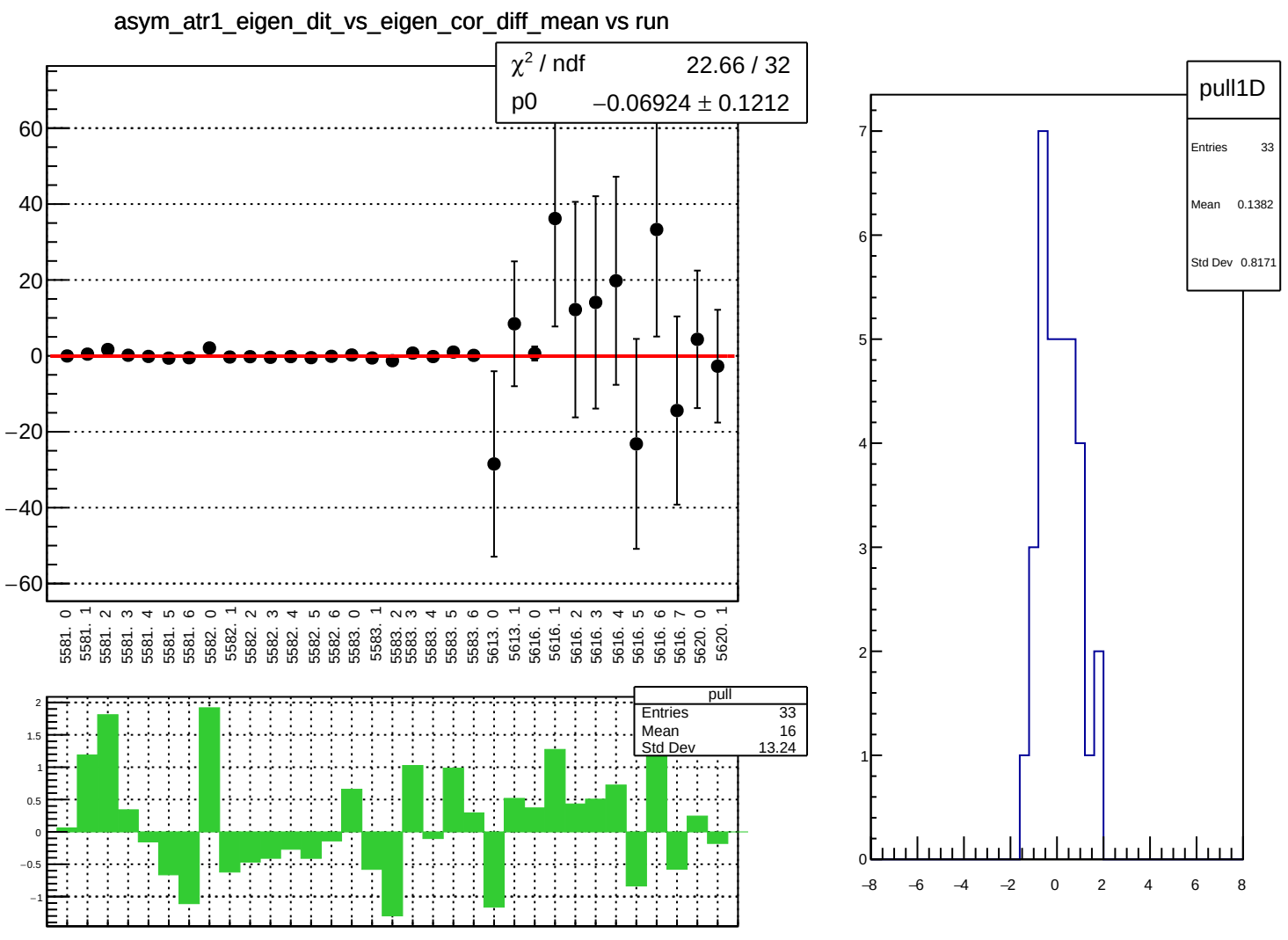

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.43 / 32
p0 −1.458e−06 ± 1.144e−06
0.6
0.4
0.2
0
−0.2
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

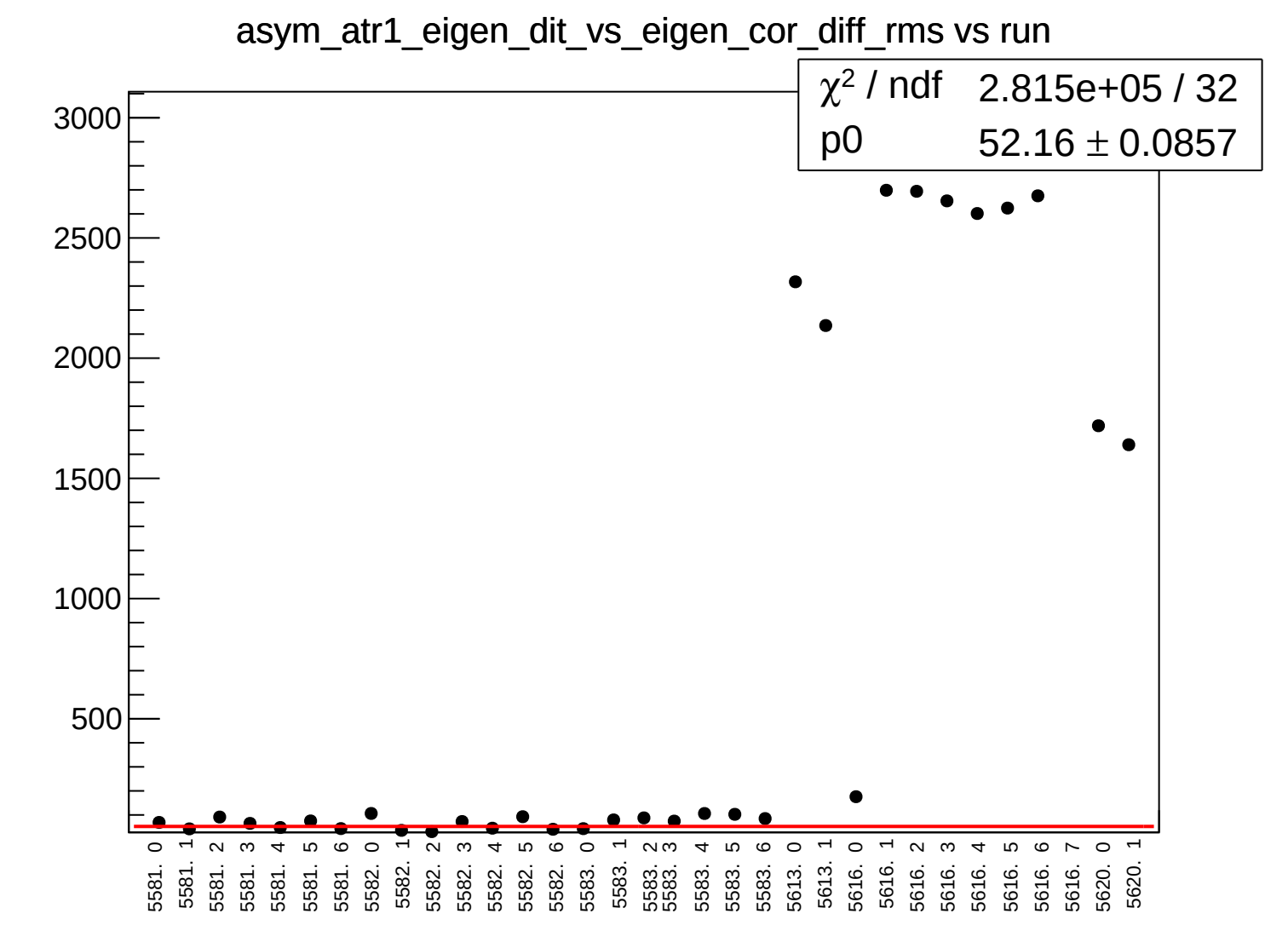

pull1D
Entries 33
Mean 0.06436
Std Dev 1.004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

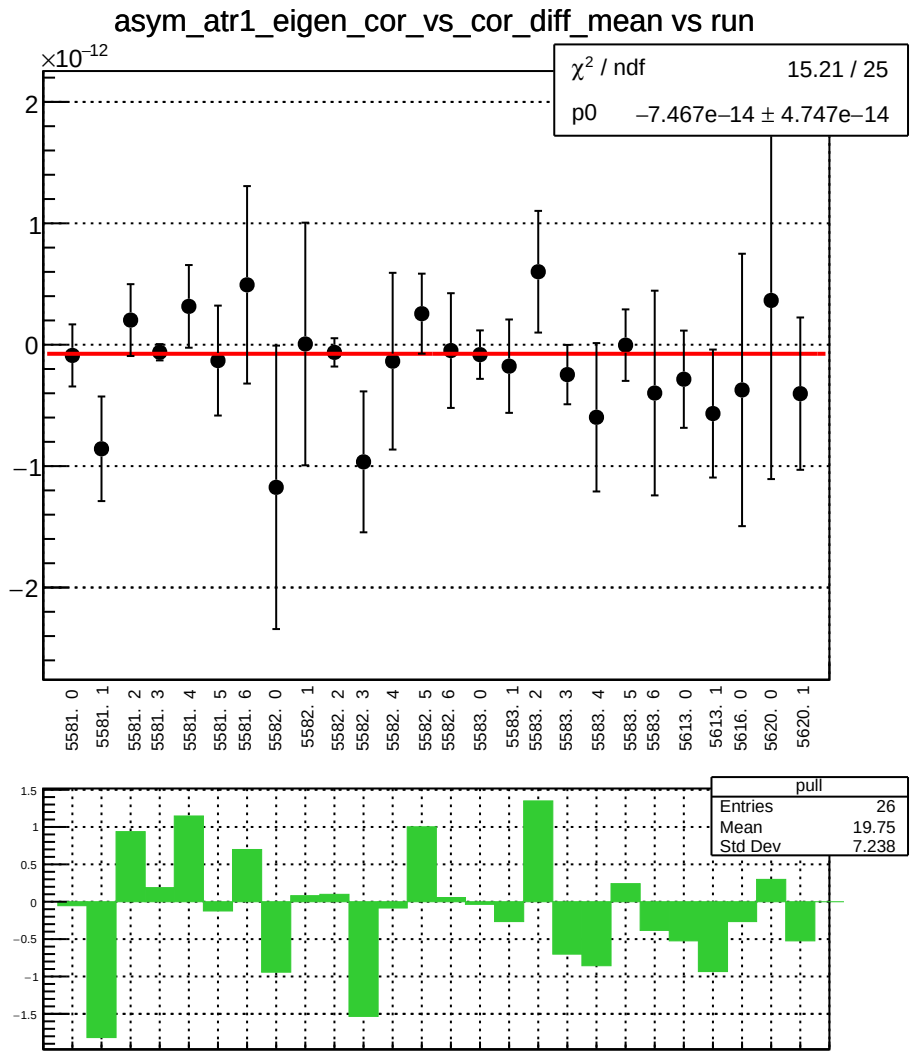

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.347e+05 / 32
p0 0.0005224 ± 8.087e−07
0.025
0.02
0.015
0.01
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

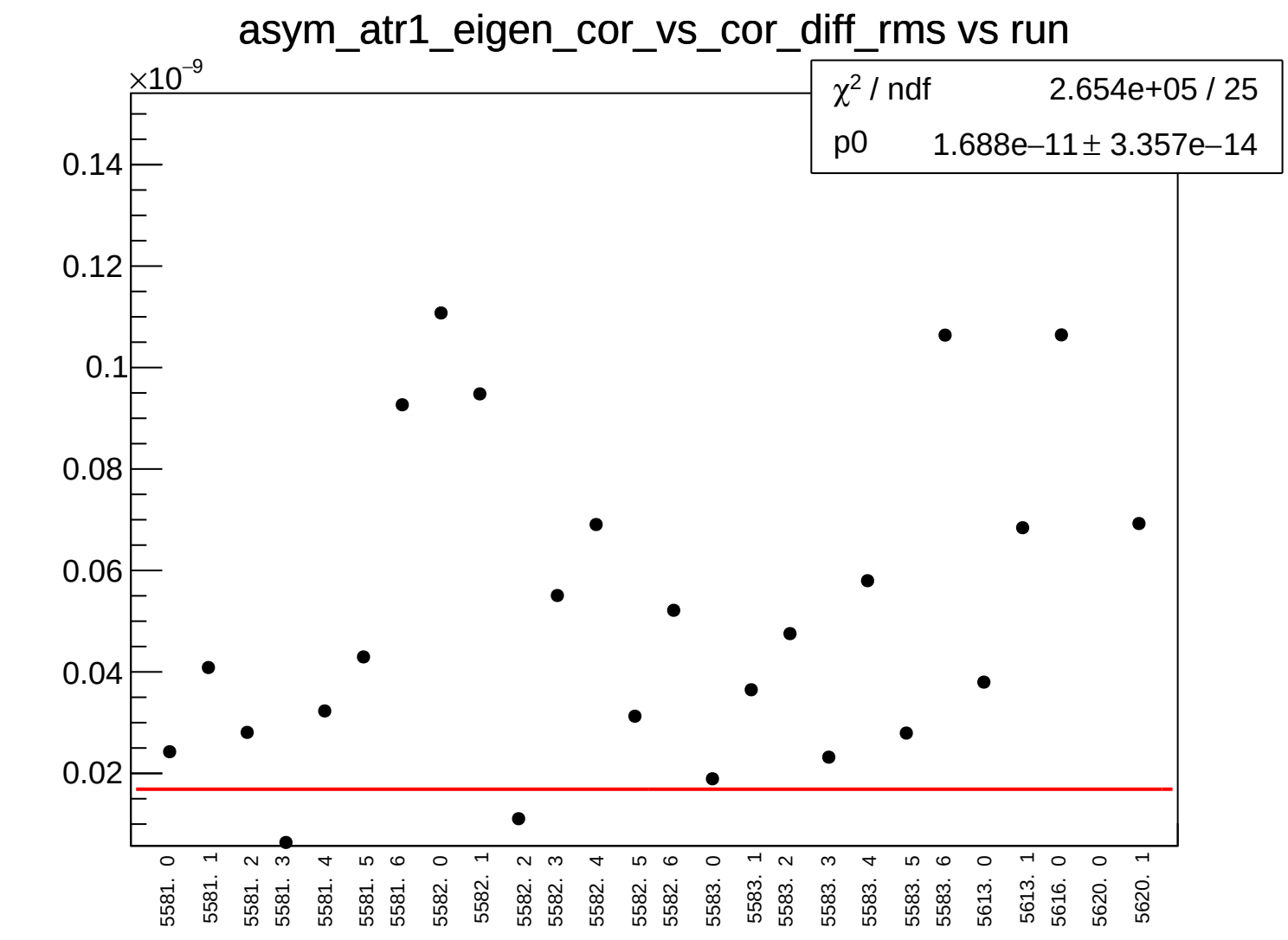

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.66 / 32
p0 −0.06924 ± 0.1212
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16
Std Dev 13.24
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.1382
Std Dev 0.8171
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

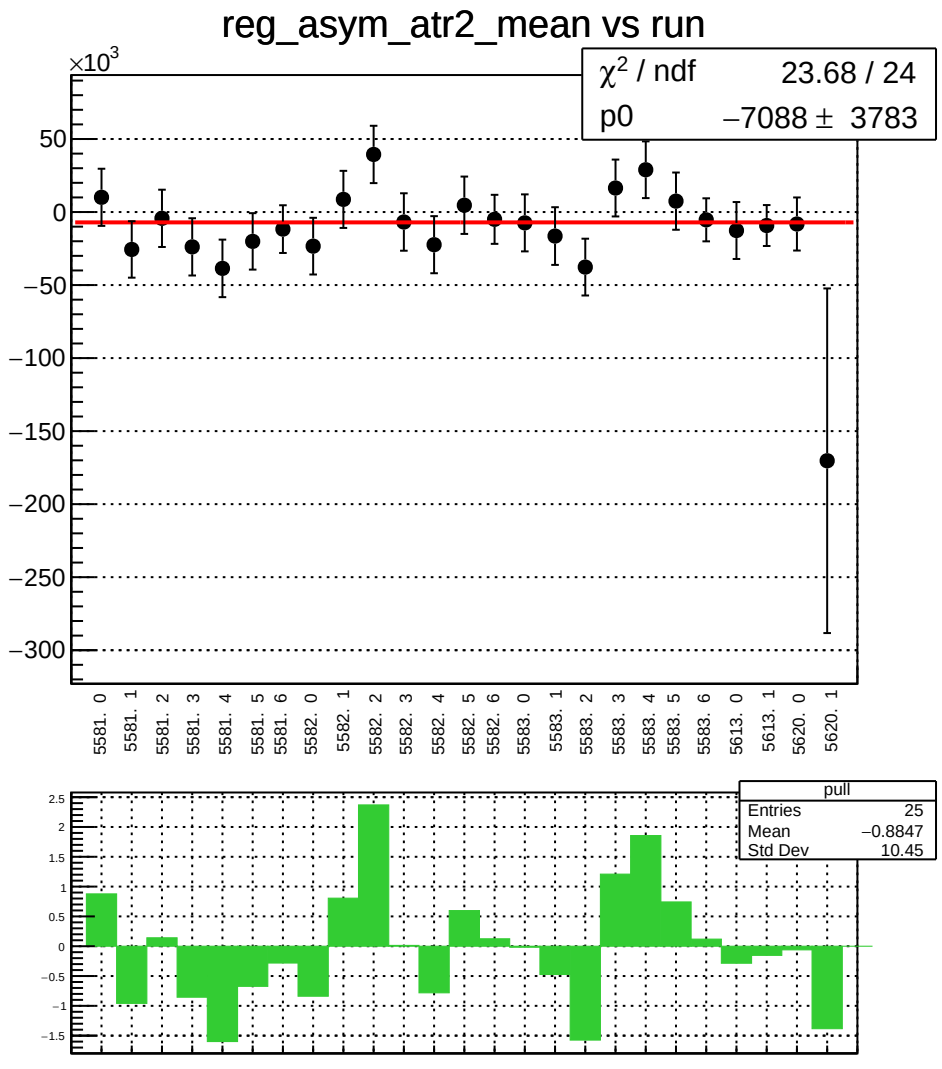

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.815e+05 / 32
p0 52.16 ± 0.0857
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

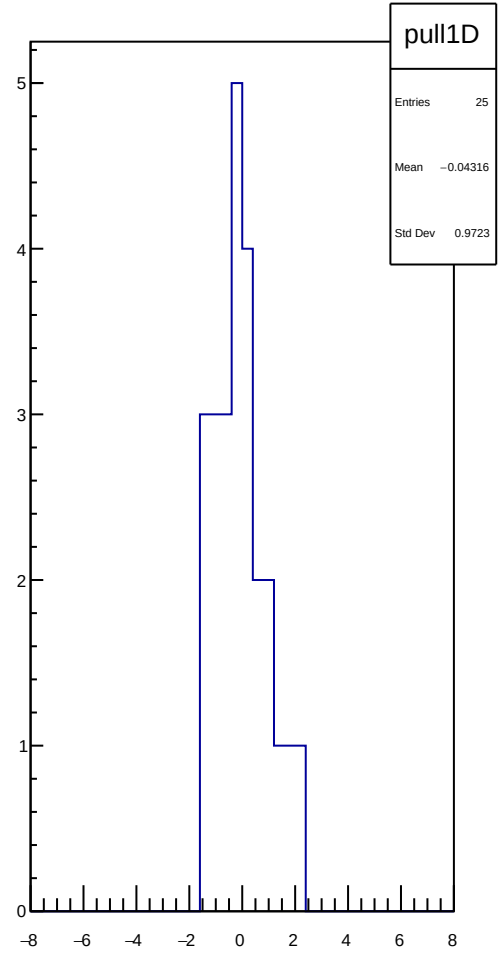

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.66 / 32
p0 −0.06924 ± 0.1212
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16
Std Dev 13.24
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.1382
Std Dev 0.8171
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

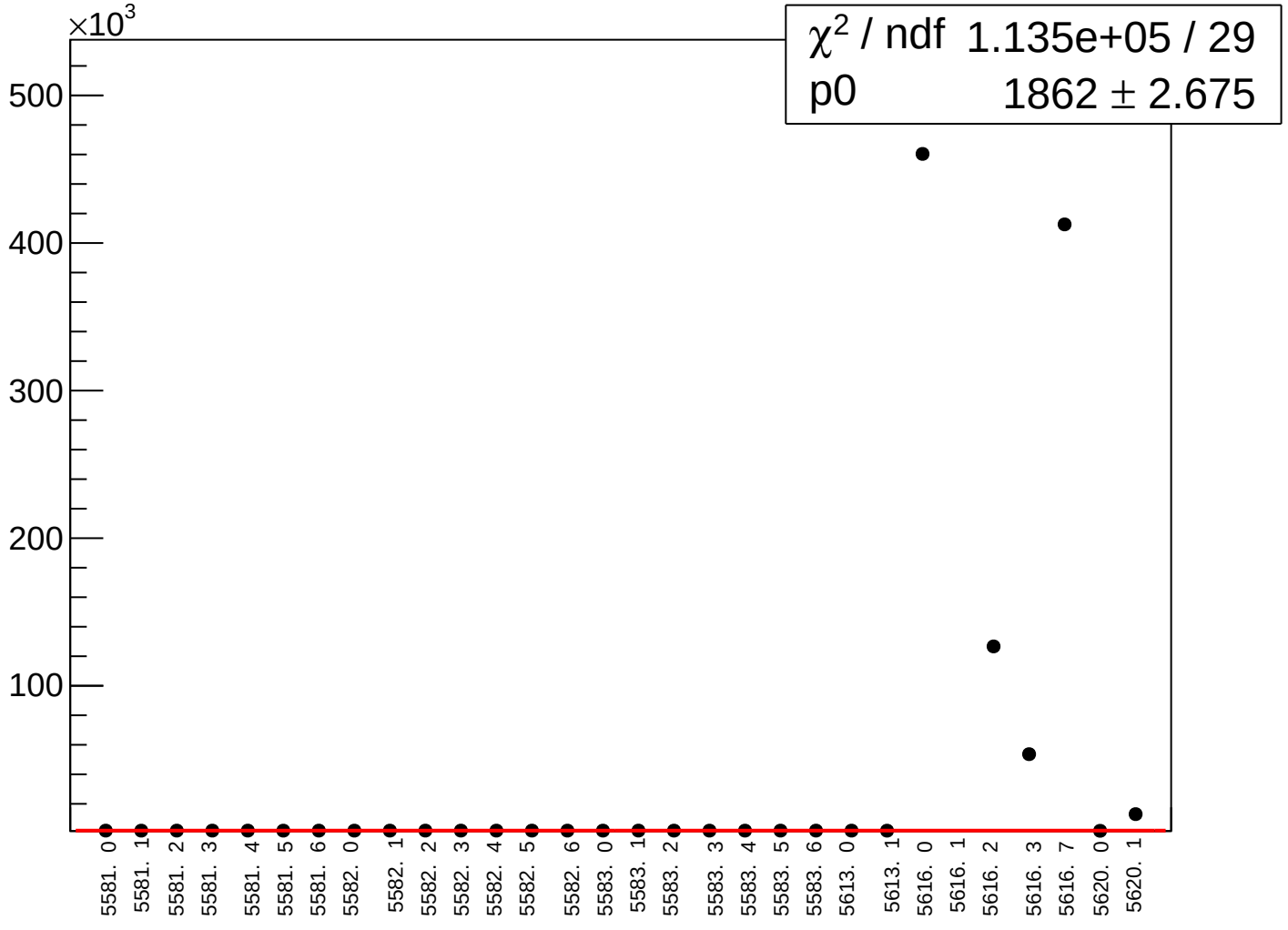

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.815e+05 / 32
p0 52.16 ± 0.0857
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

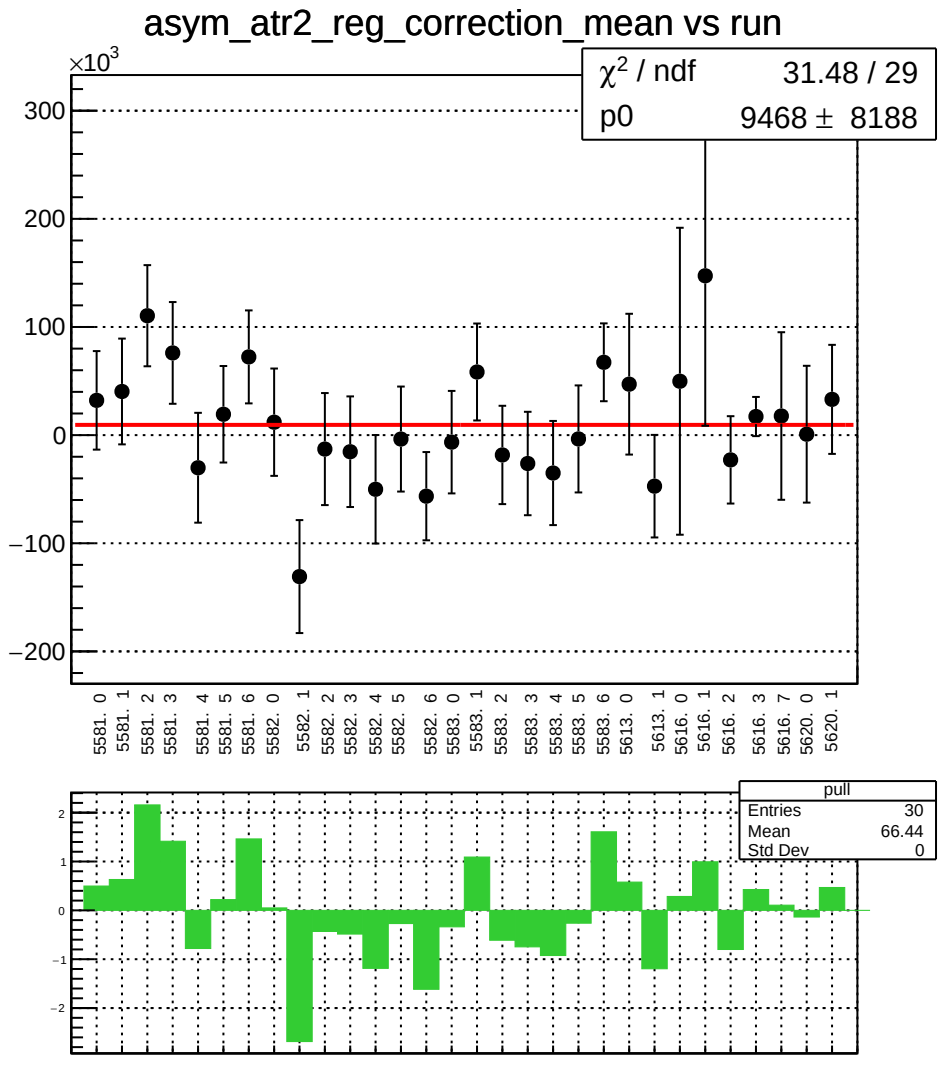

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 15.21 / 25
p0 −7.467e−14 ± 4.747e−14
2
1
0
−1
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 19.75
Std Dev 7.238
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.1131
Std Dev 0.7564
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

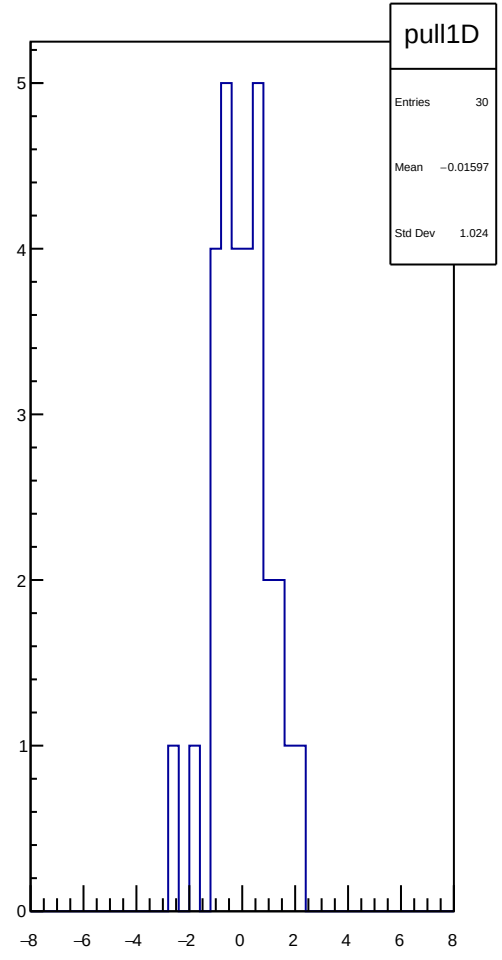

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.654e+05 / 25
p0 1.688e−11 ± 3.357e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

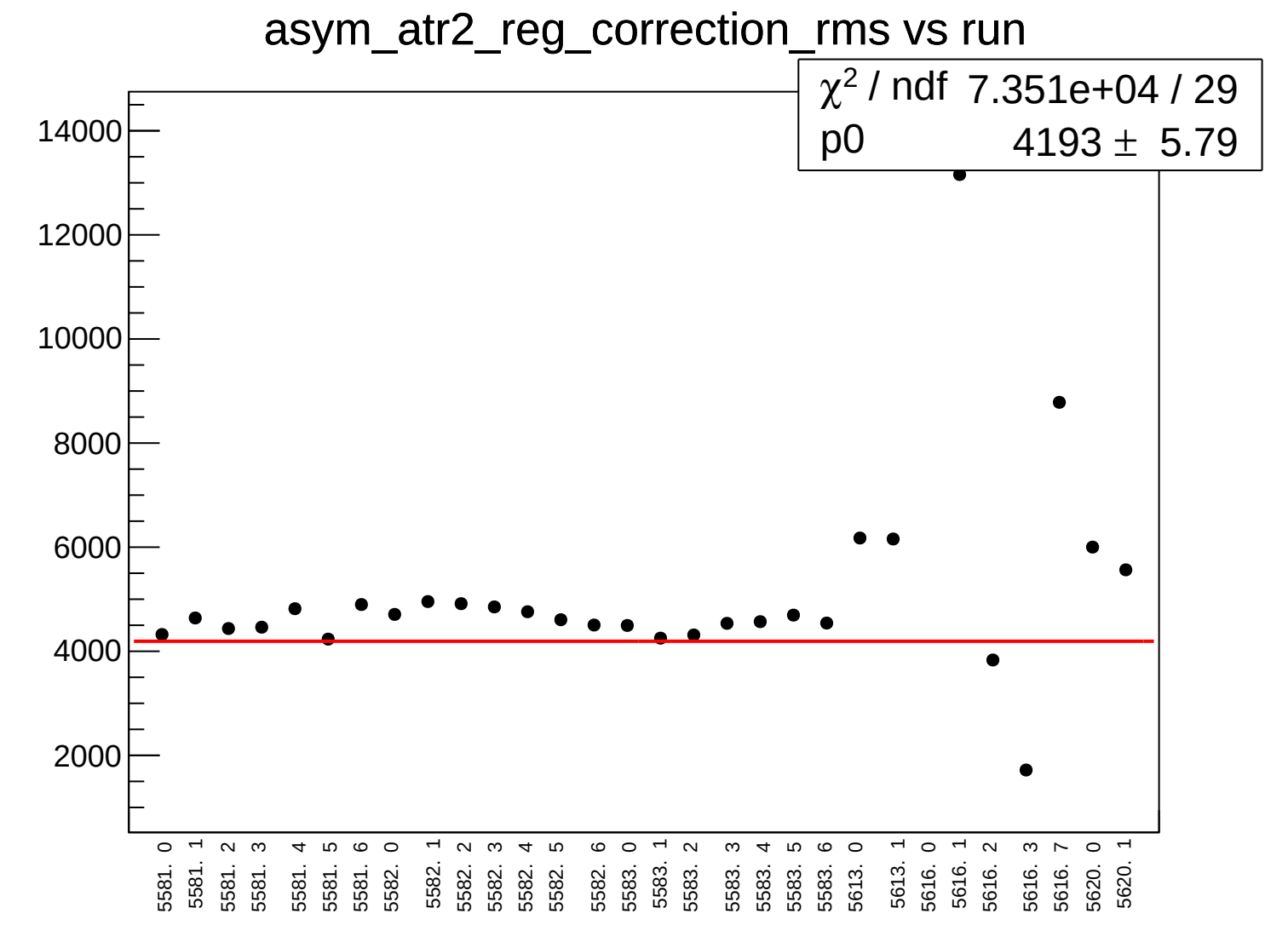

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 23.68 / 24
p0 −7088 ± 3783
50
0
−50
−100
−150
−200
−250
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −0.8847
Std Dev 10.45
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

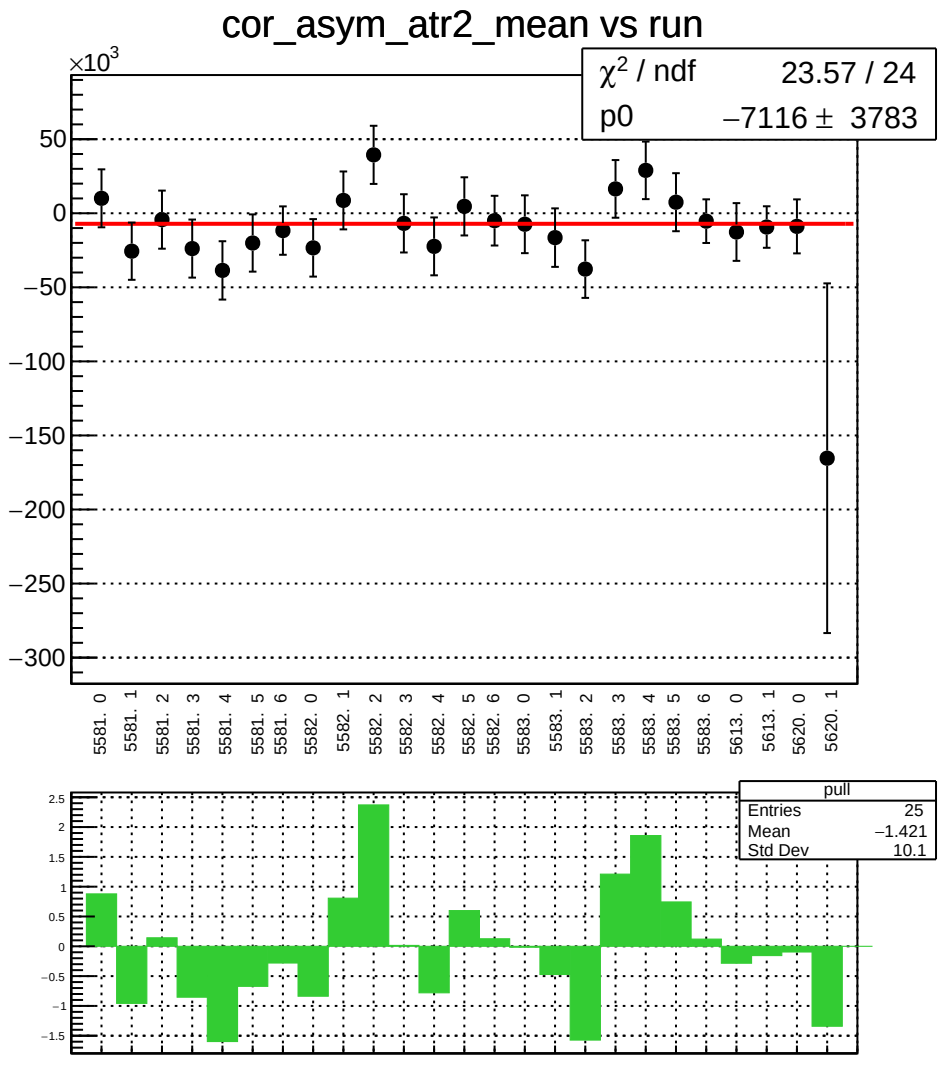

pull1D
Entries 25
Mean −0.04316
Std Dev 0.9723
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

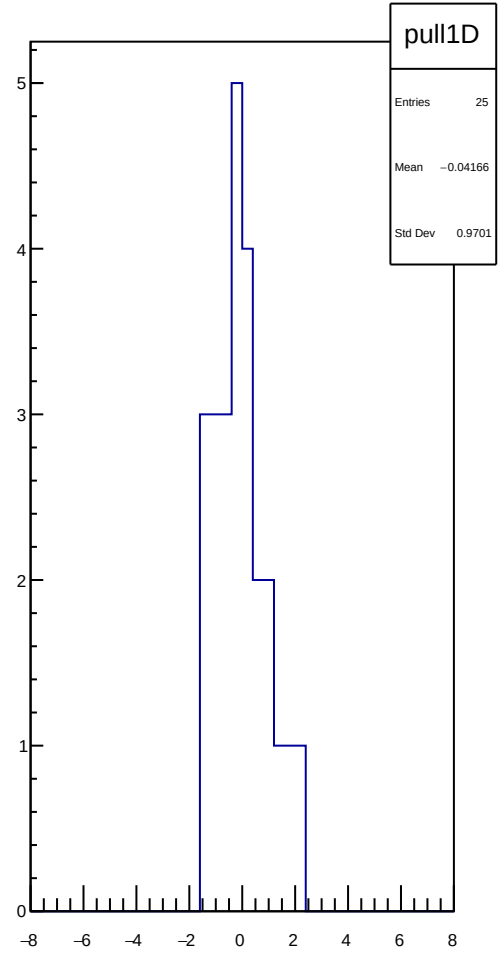

reg_asym_atr2_rms vs run
×10^3
χ^2 / ndf 1.135e+05 / 29
p0 1862 ± 2.675
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

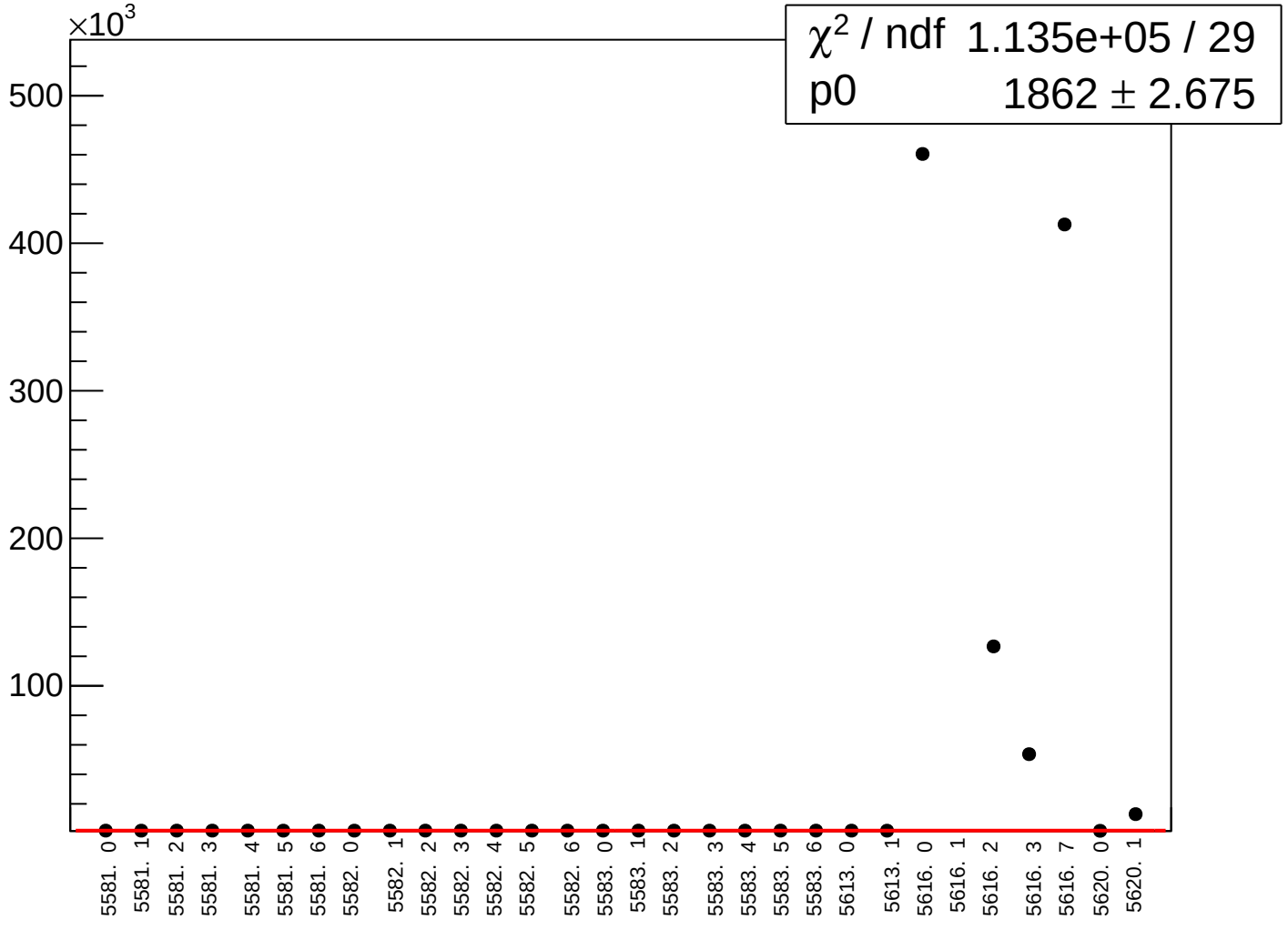

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 31.48 / 29
p0 9468 ± 8188
300
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean 66.44
Std Dev 0
2
1
0
−1
−2

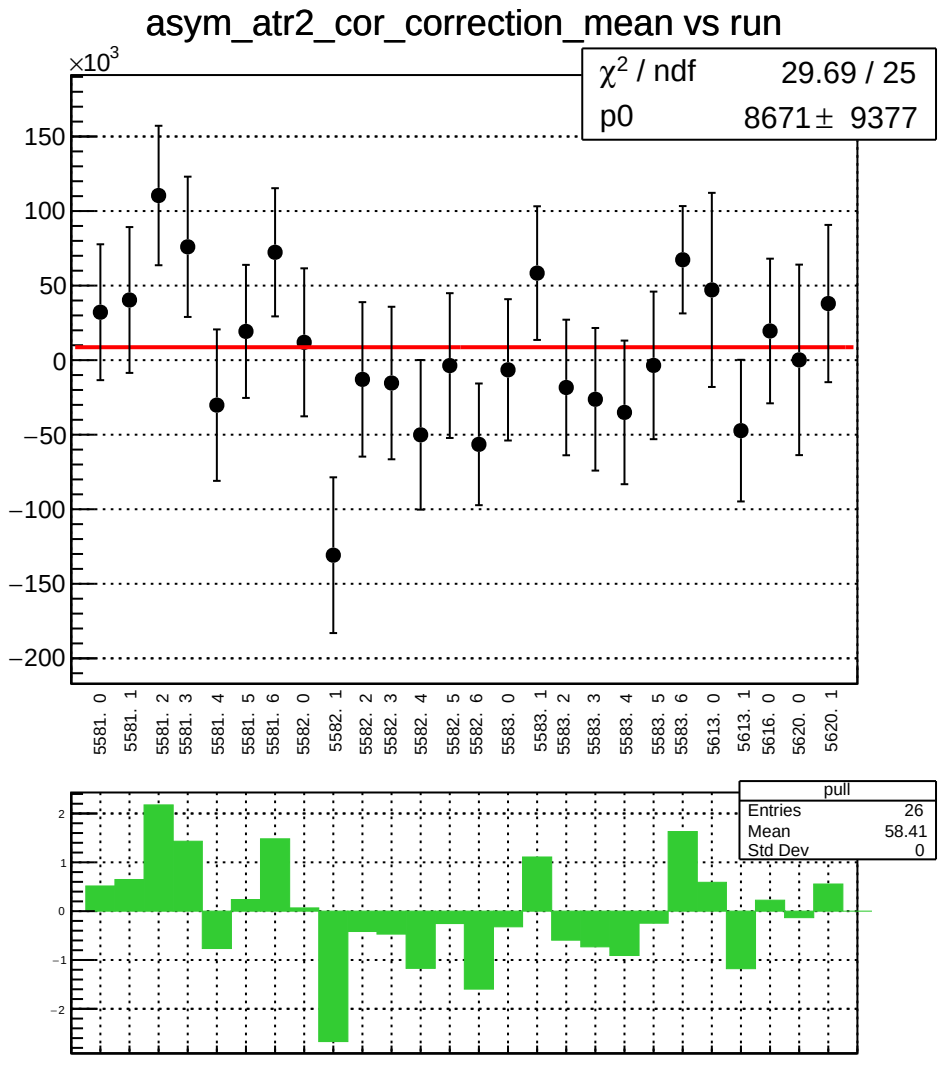

pull1D
Entries 30
Mean −0.01597
Std Dev 1.024
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

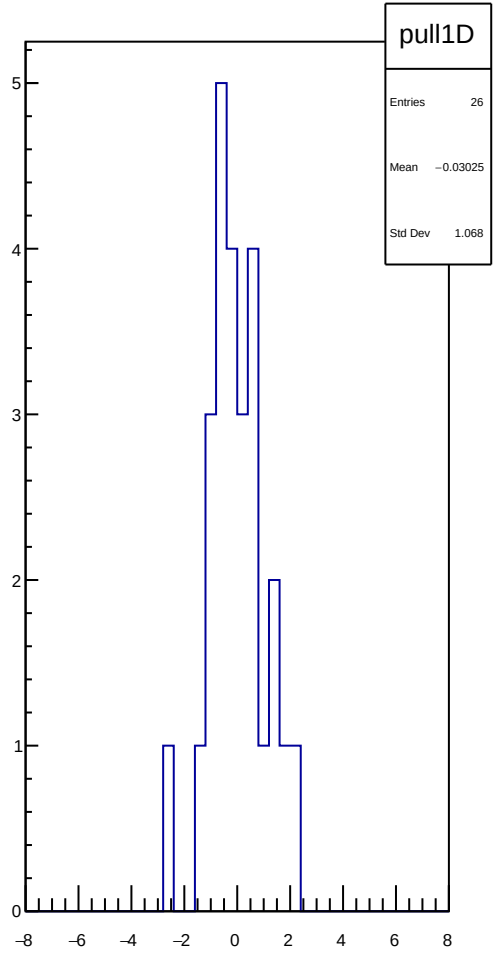

asym_atr2_reg_correction_rms vs run
χ² / ndf 7.351e+04 / 29
p0 4193 ± 5.79
14000
12000
10000
8000
6000
4000
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

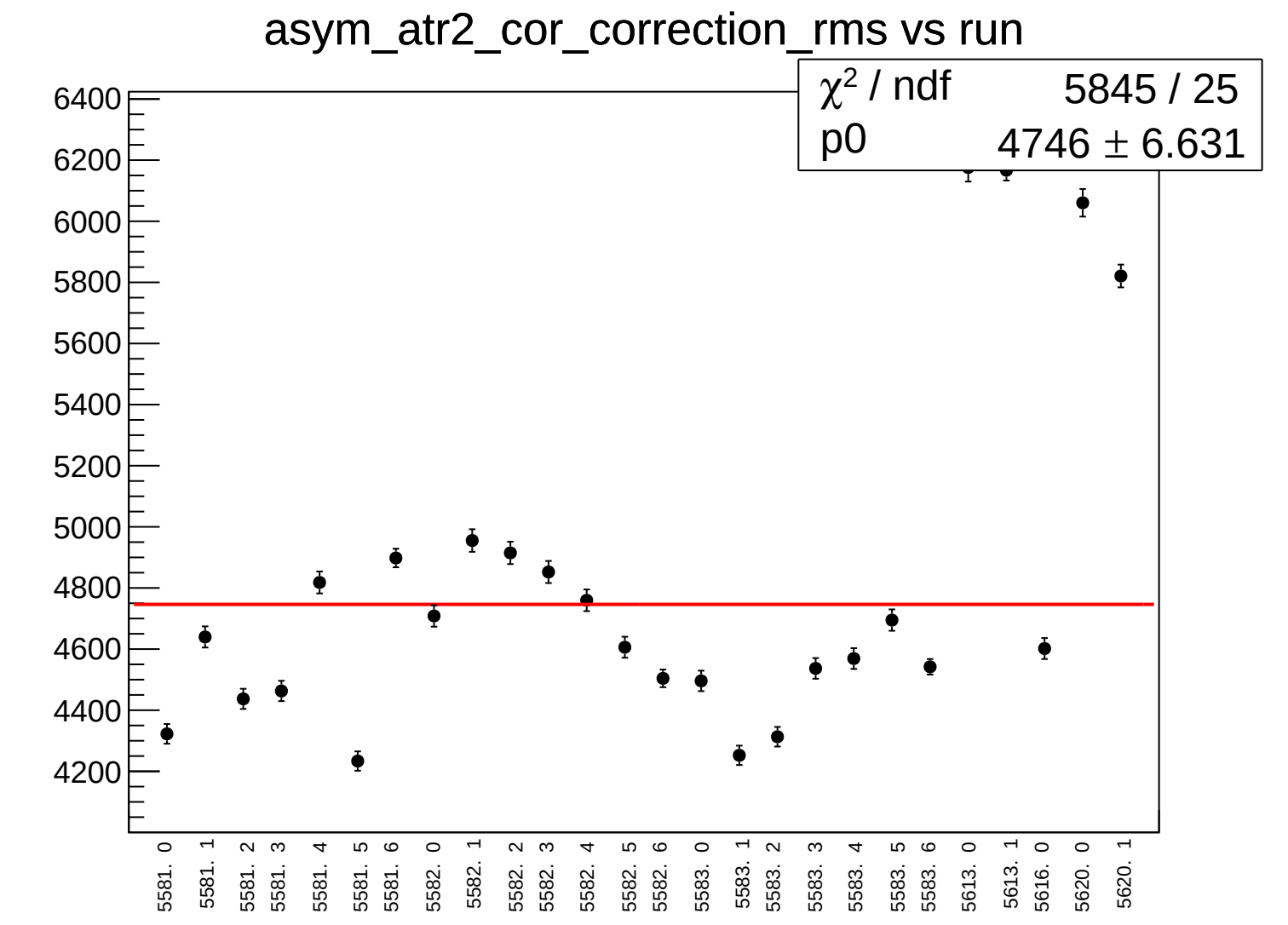

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 23.57 / 24
p0 −7116 ± 3783
50
0
−50
−100
−150
−200
−250
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −1.421
Std Dev 10.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

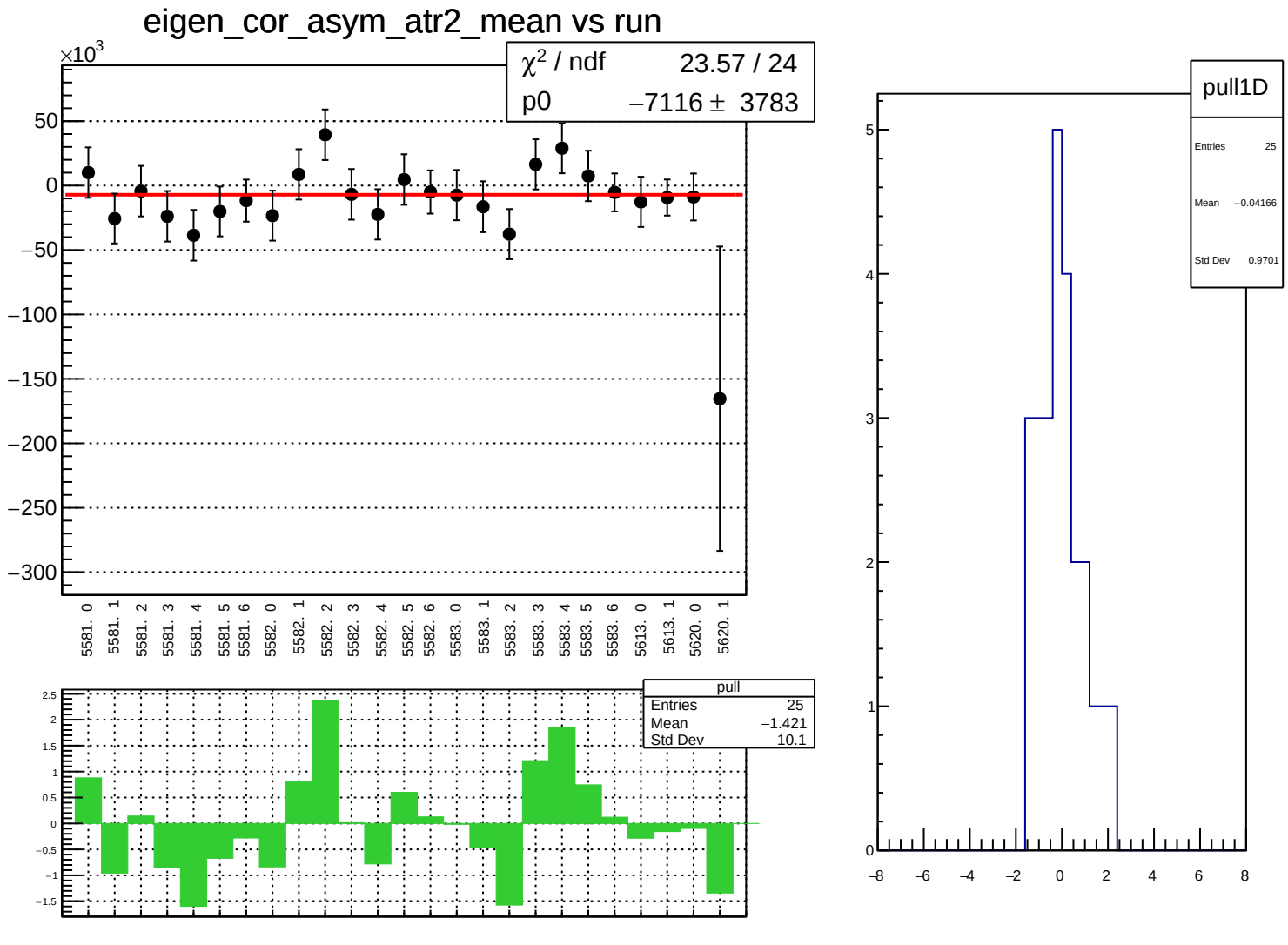

pull1D
Entries 25
Mean −0.04166
Std Dev 0.9701
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

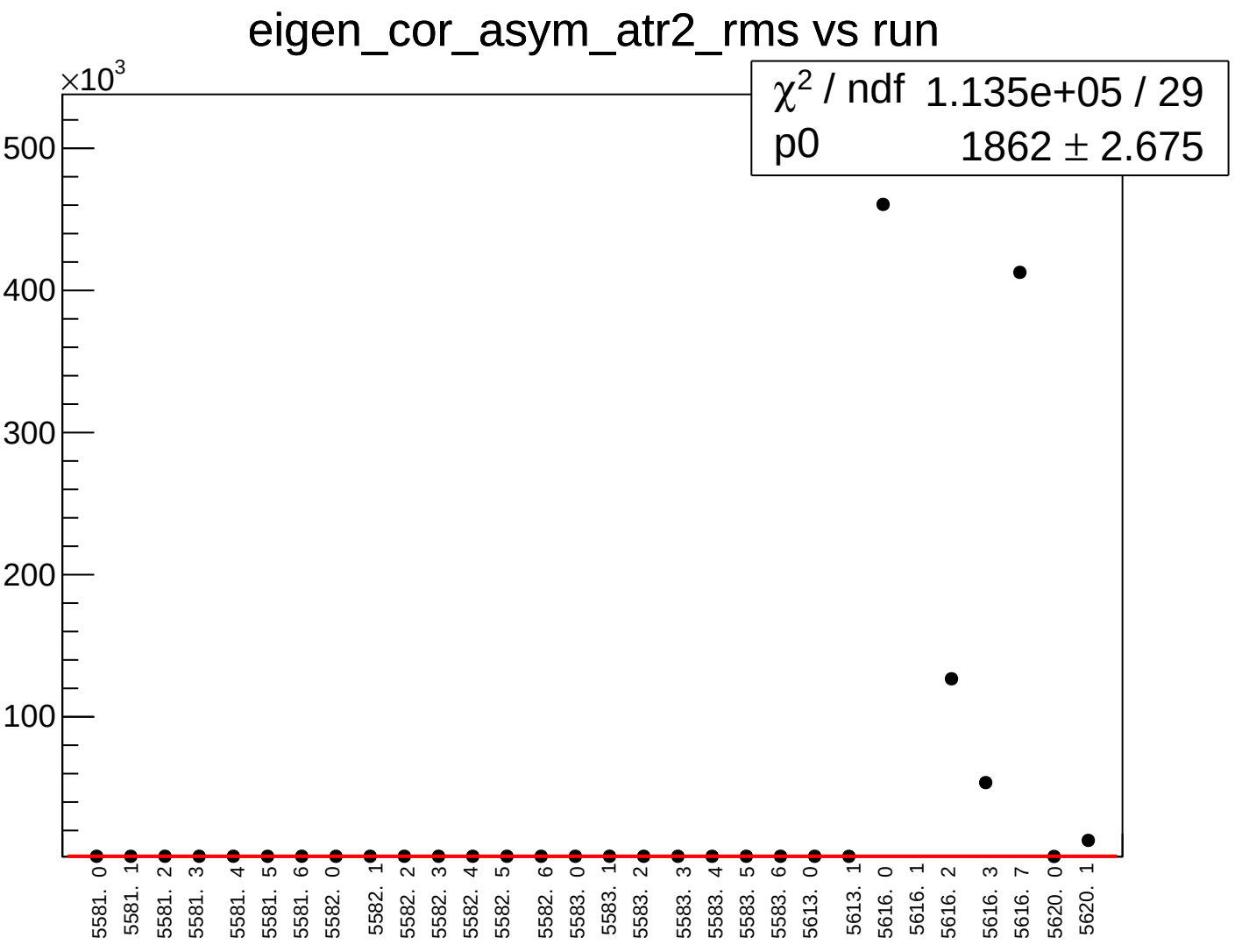

cor_asym_atr2_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 1.135e+05 / 29
p0 1862 ± 2.675
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

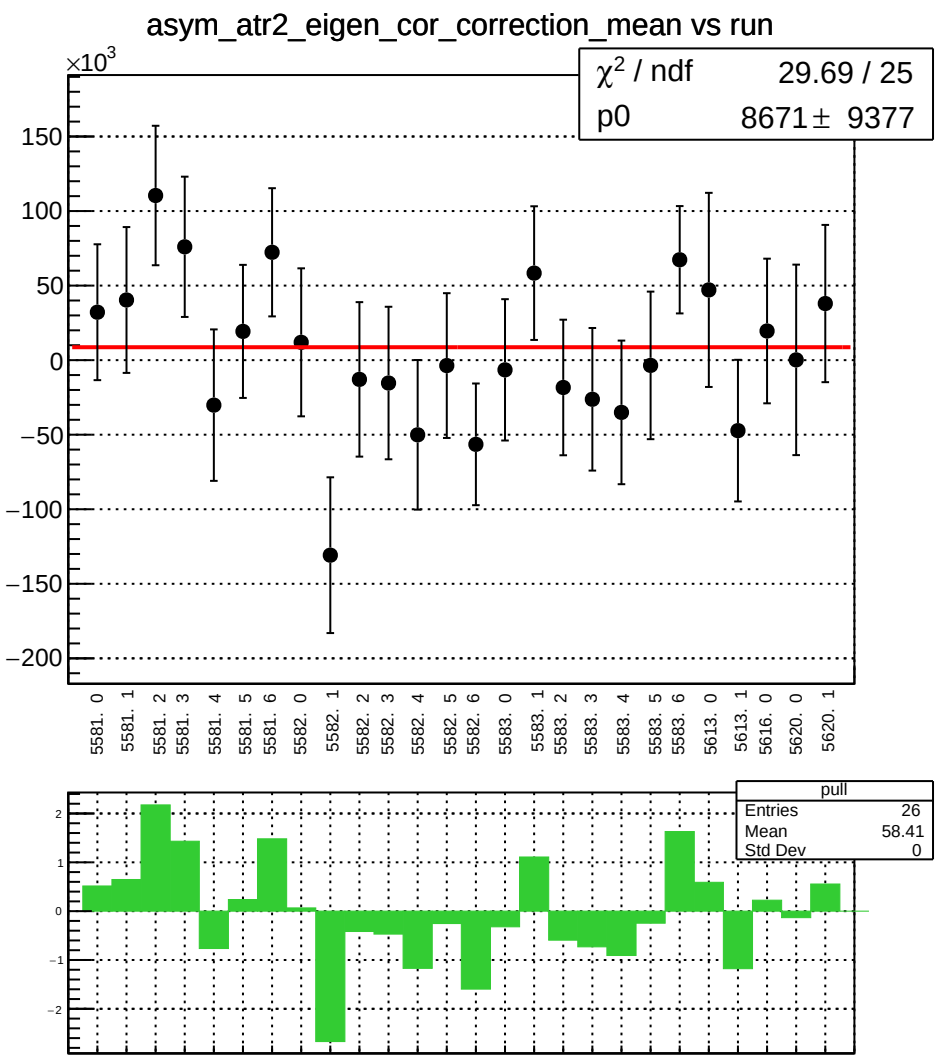

asym_atr2_cor_correction_mean vs run
×10^3
χ^2 / ndf 29.69 / 25
p0 8671 ± 9377
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 58.41
Std Dev 0
2
1
0
−1
−2

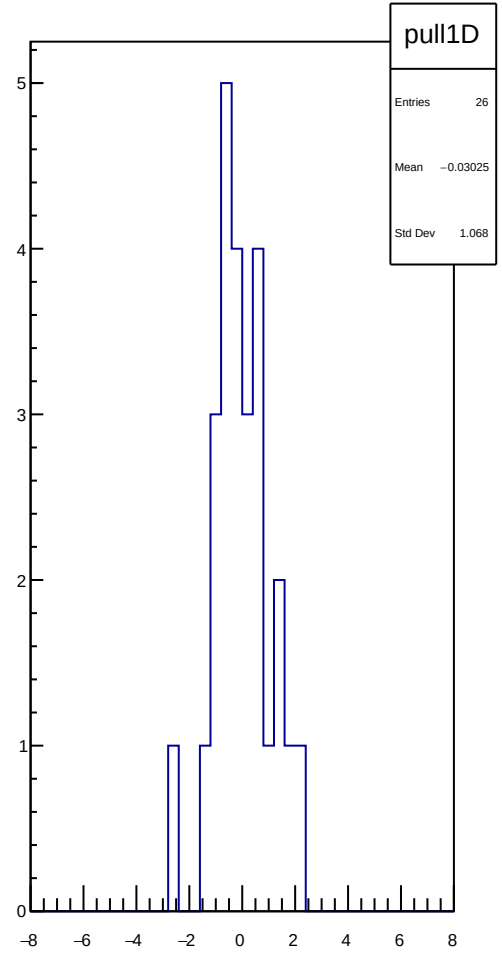

pull1D
Entries 26
Mean −0.03025
Std Dev 1.068
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

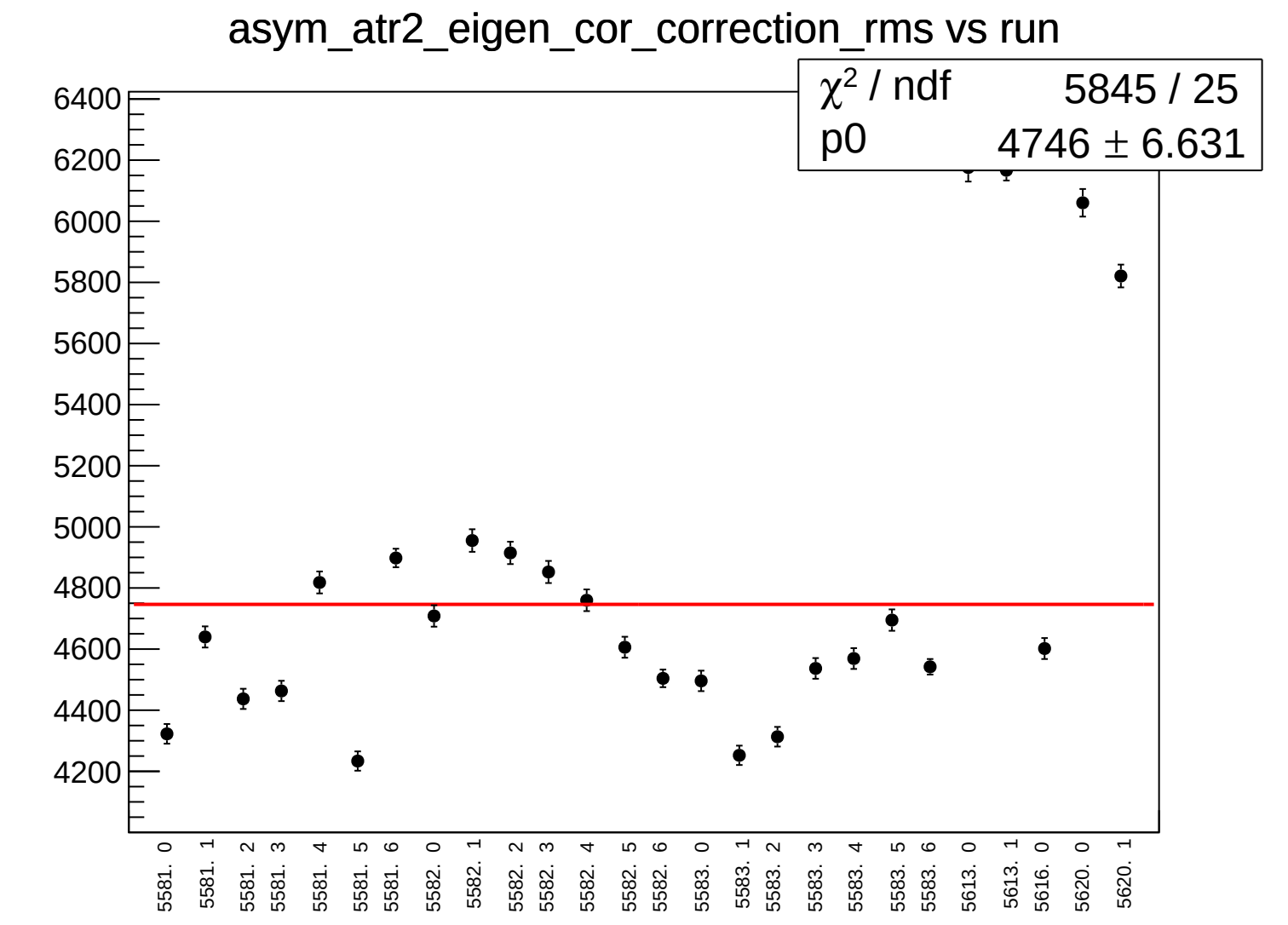

asym_atr2_cor_correction_rms vs run
χ² / ndf 5845 / 25
p0 4746 ± 6.631
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

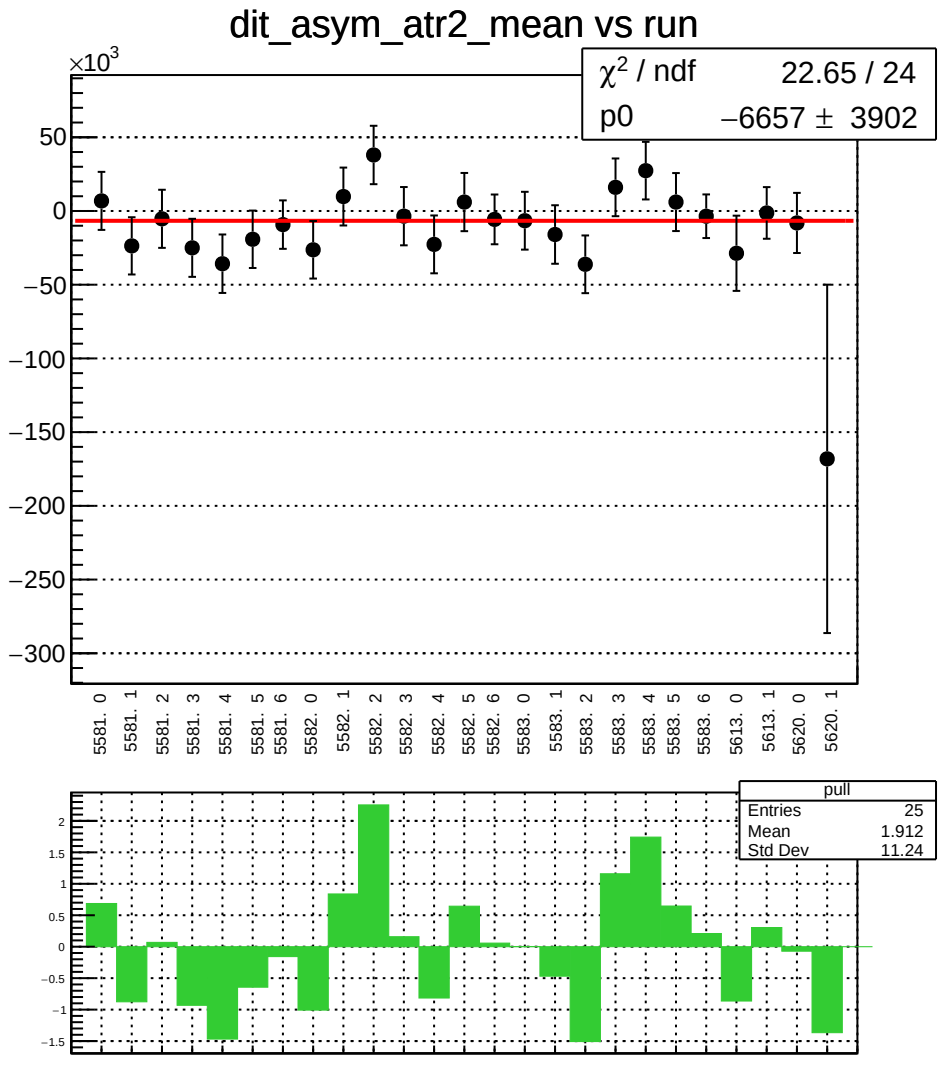

eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 23.57 / 24
p0 −7116 ± 3783
50
0
−50
−100
−150
−200
−250
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −1.421
Std Dev 10.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.04166
Std Dev 0.9701
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

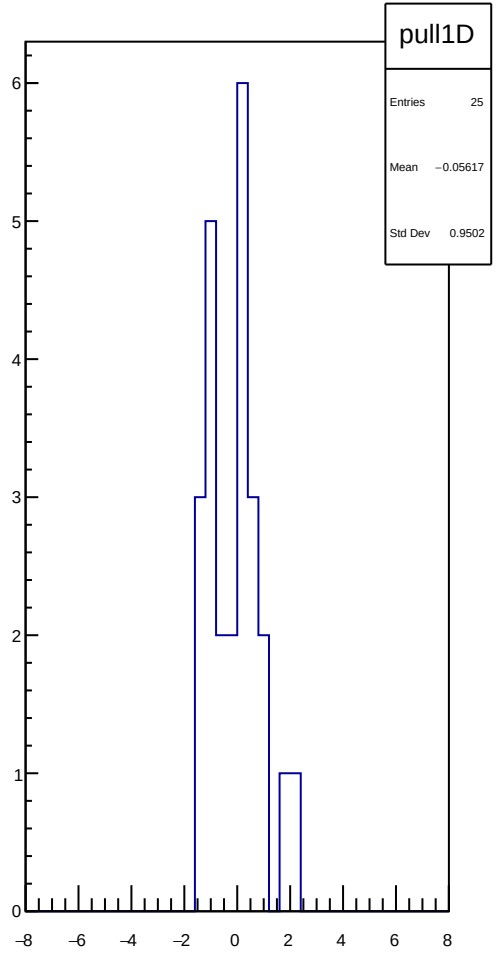

eigen_cor_asym_atr2_rms vs run
×10^3
χ^2 / ndf 1.135e+05 / 29
p0 1862 ± 2.675
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

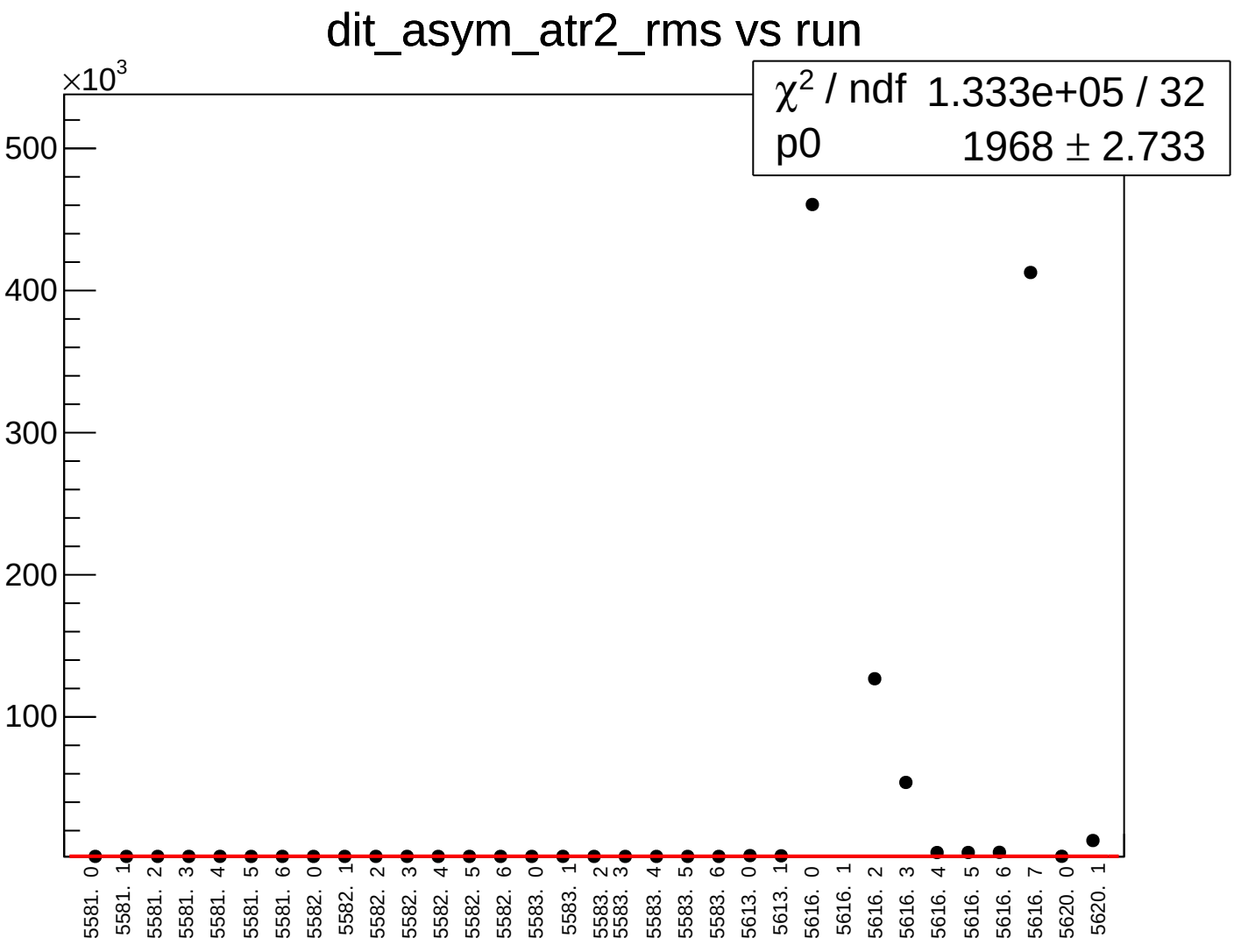

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 29.69 / 25
p0 8671 ± 9377
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 58.41
Std Dev 0
2
1
0
−1
−2

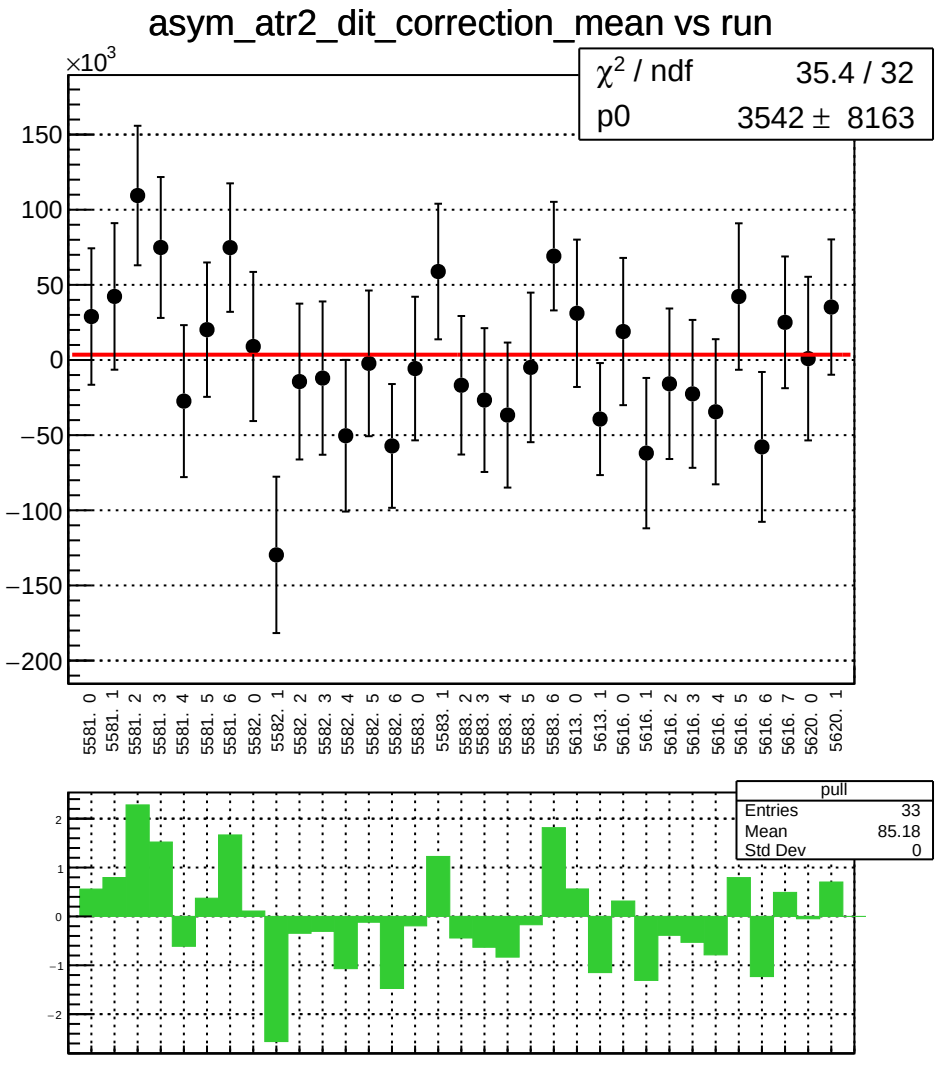

pull1D
Entries 26
Mean −0.03025
Std Dev 1.068
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

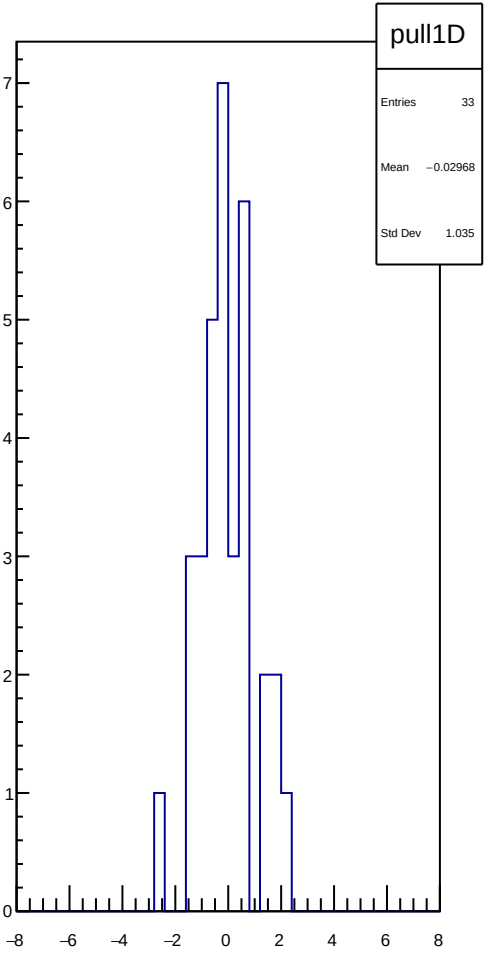

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 5845 / 25
p0 4746 ± 6.631
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

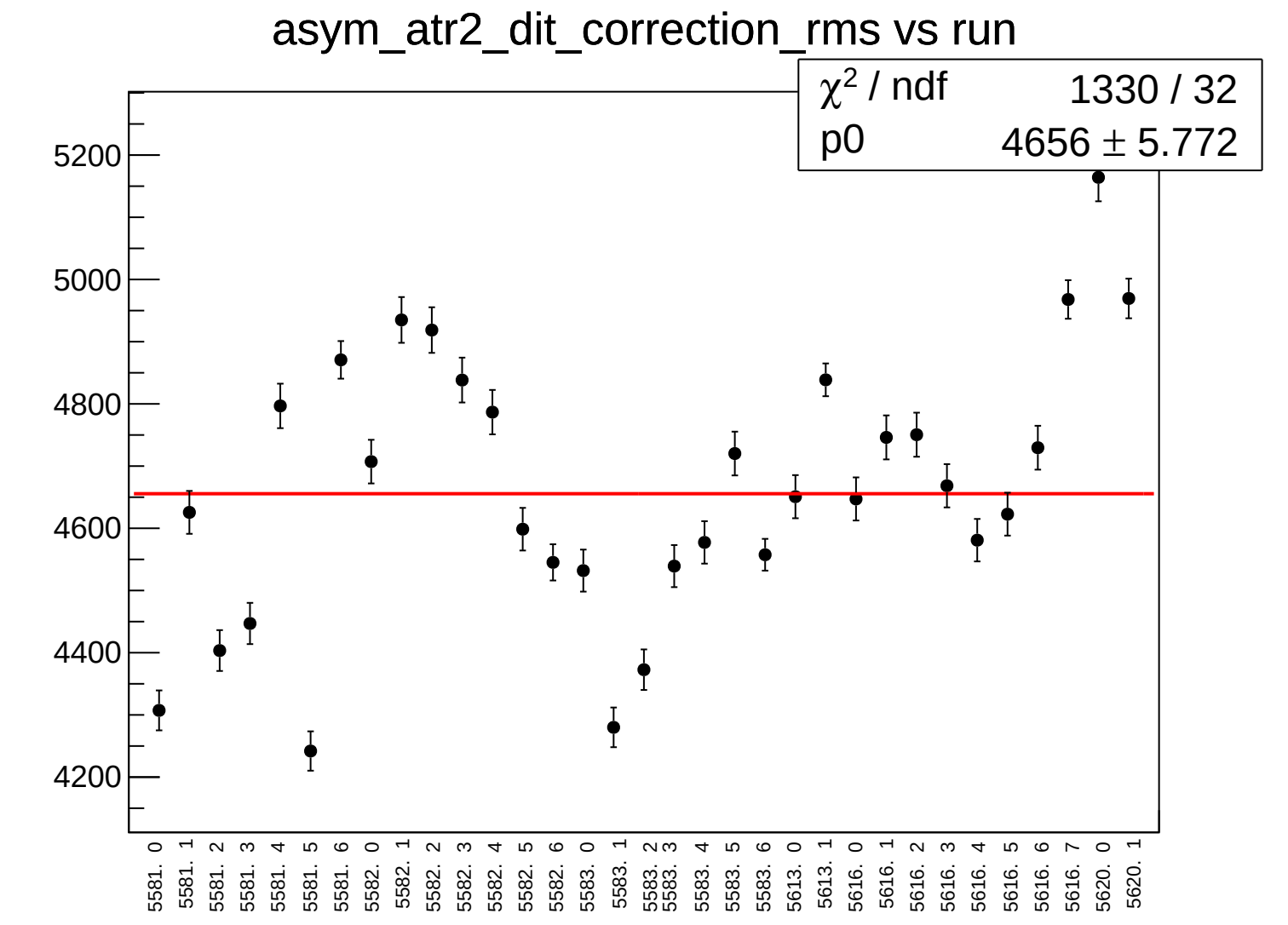

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 22.65 / 24
p0 −6657 ± 3902
50
0
−50
−100
−150
−200
−250
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 1.912
Std Dev 11.24
2
1.5
1
0.5
0
−0.5
−1
−1.5

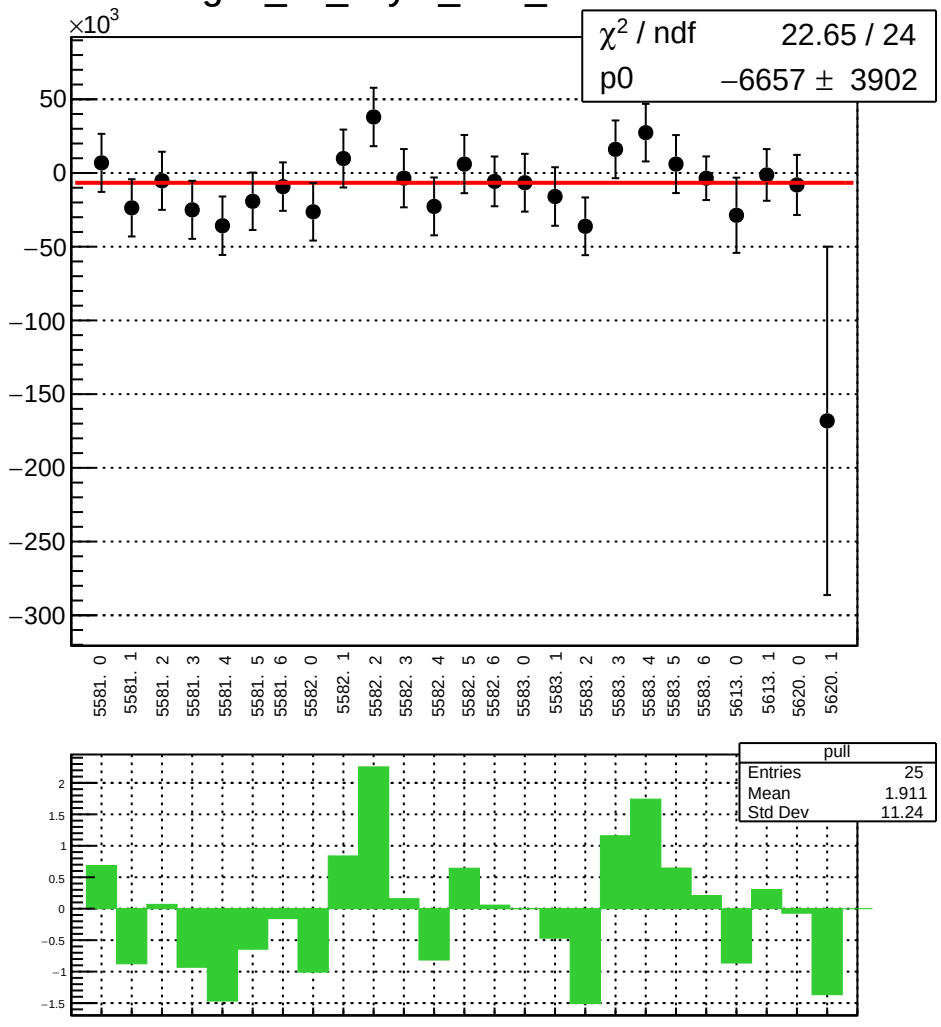

pull1D
Entries 25
Mean −0.05617
Std Dev 0.9502
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

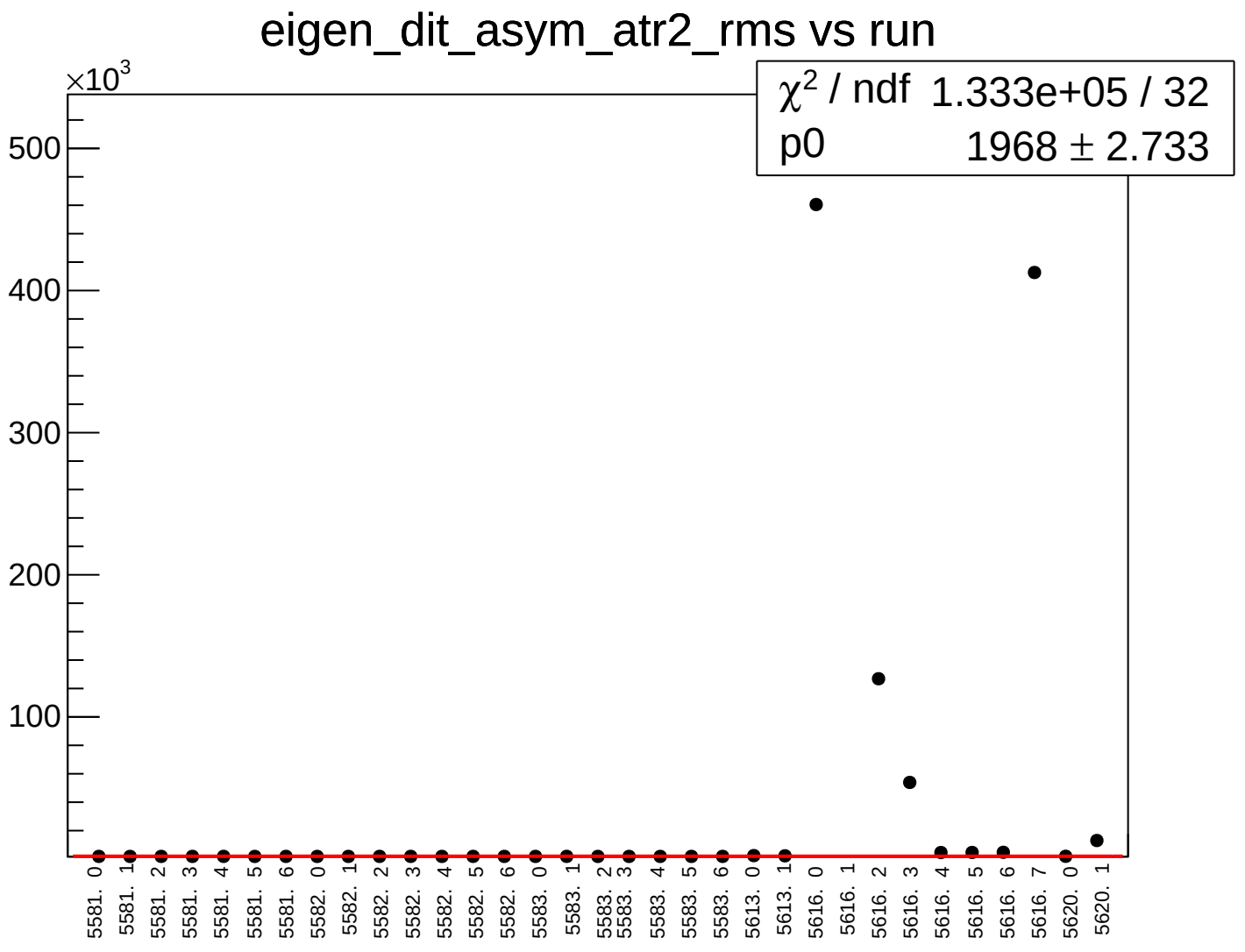

dit_asym_atr2_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 1.333e+05 / 32
p0 1968 ± 2.733
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

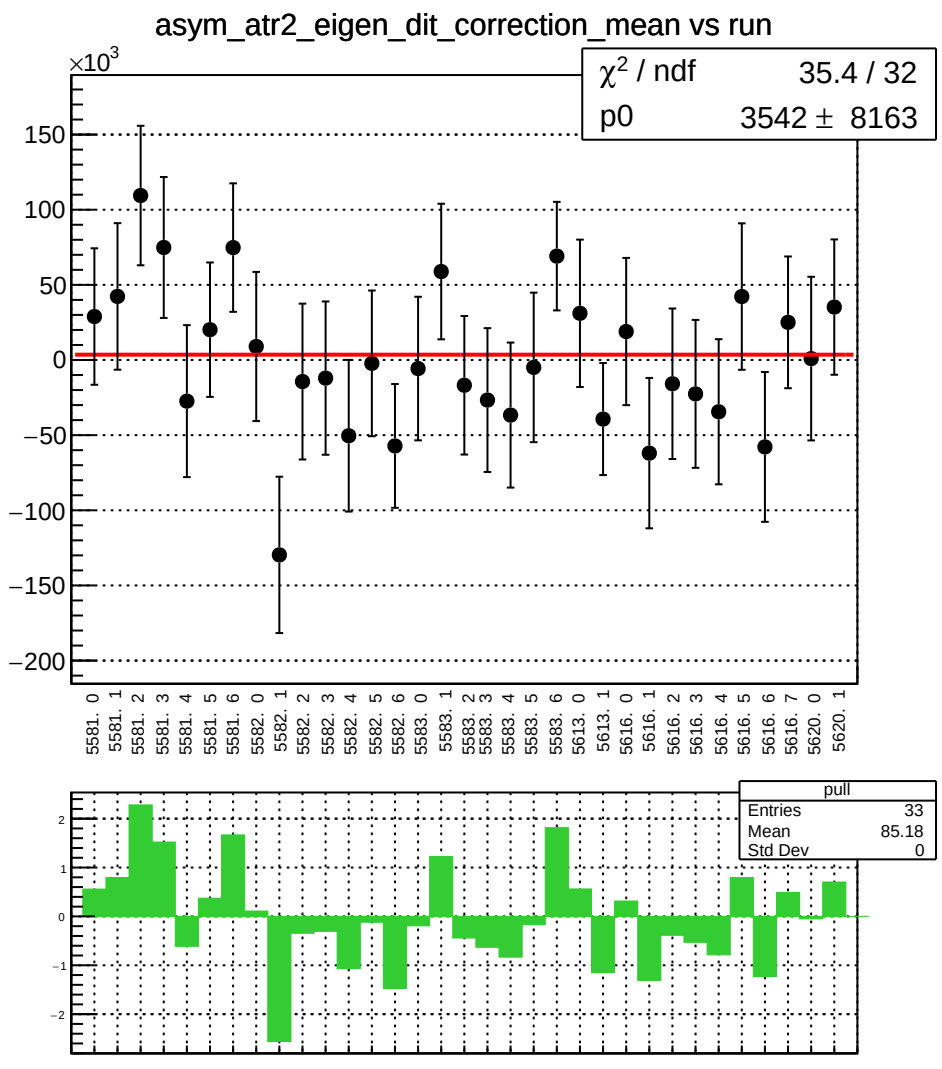

asym_atr2_dit_correction_mean vs run
×10^3
χ^2 / ndf 35.4 / 32
p0 3542 ± 8163
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 85.18
Std Dev 0
2
1
0
−1
−2

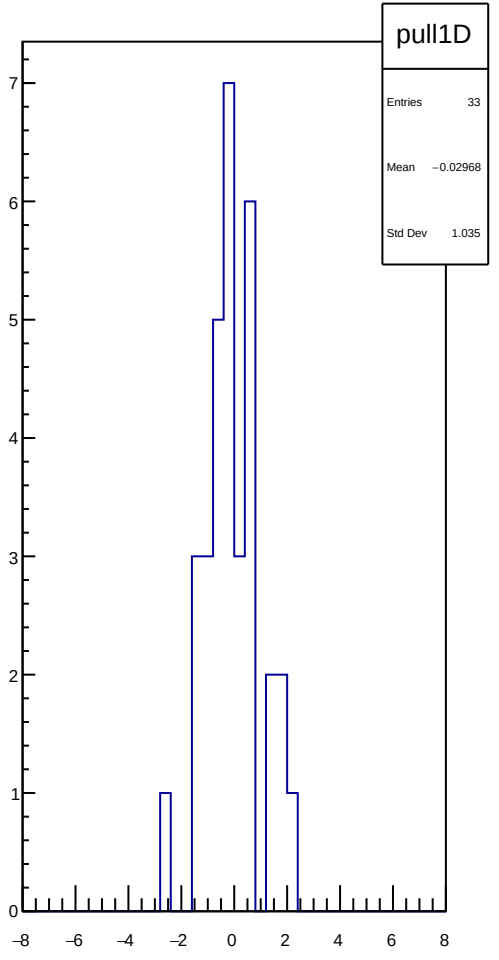

pull1D
Entries 33
Mean −0.02968
Std Dev 1.035
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

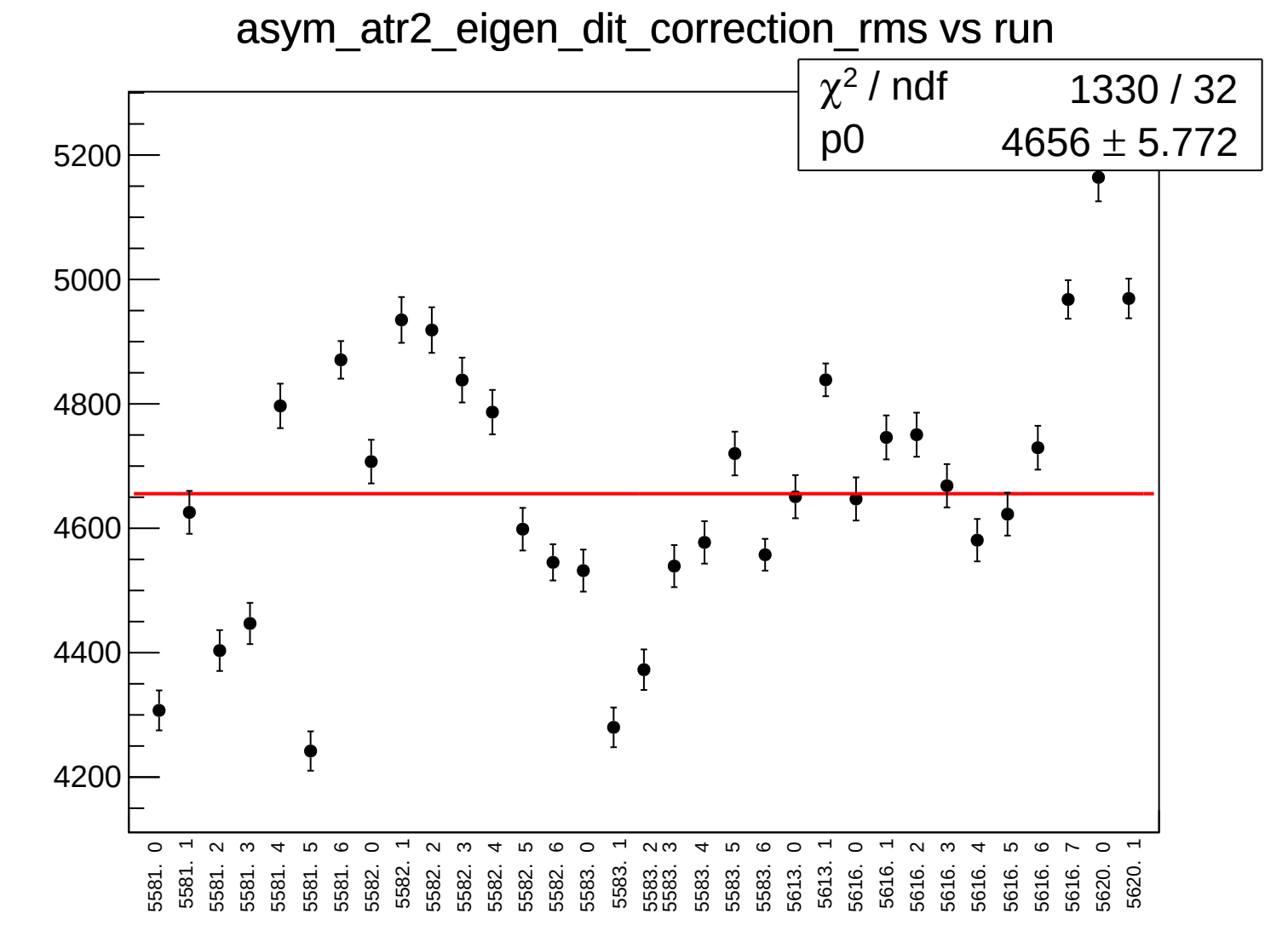

asym_atr2_dit_correction_rms vs run
χ² / ndf 1330 / 32
p0 4656 ± 5.772
5200
5000
4800
4600
4400
4200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

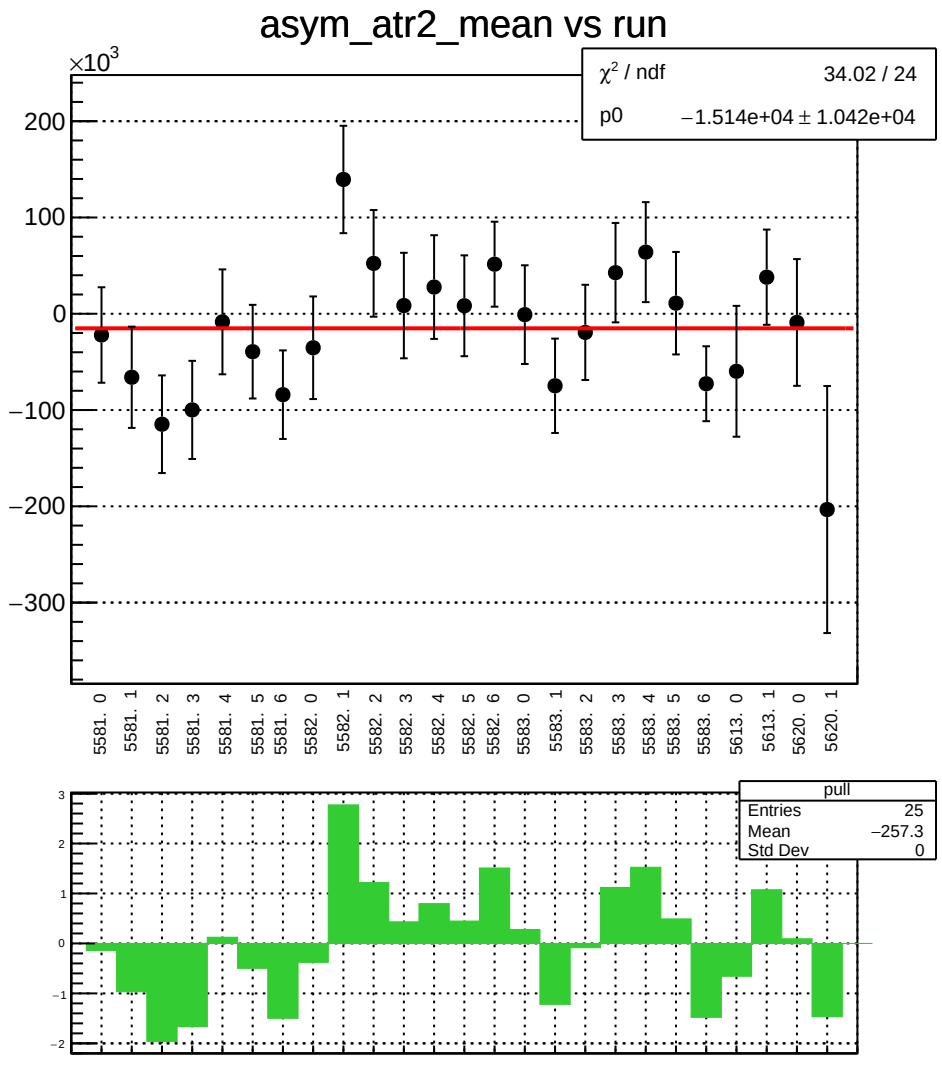

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 22.65 / 24
p0 −6657 ± 3902
50
0
−50
−100
−150
−200
−250
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 1.911
Std Dev 11.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.05617
Std Dev 0.9502
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

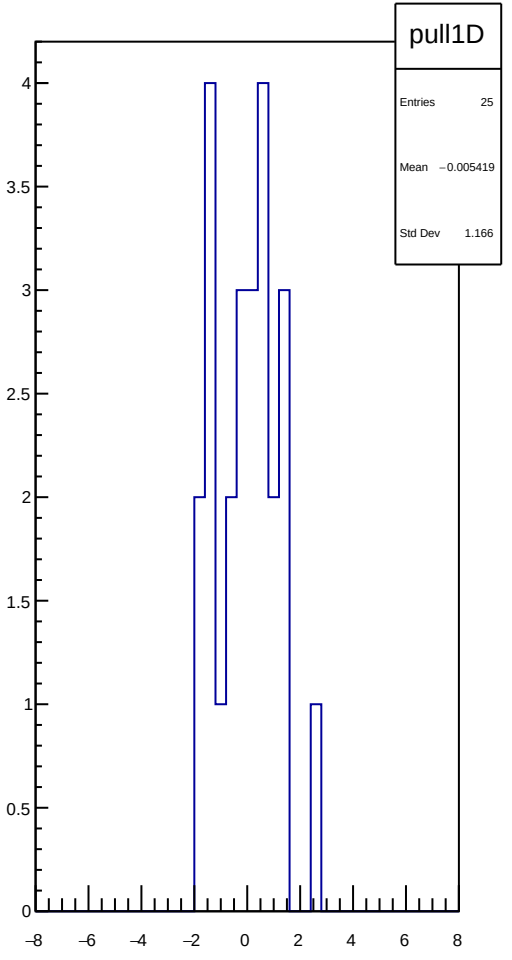

eigen_dit_asym_atr2_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 1.333e+05 / 32
p0 1968 ± 2.733
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

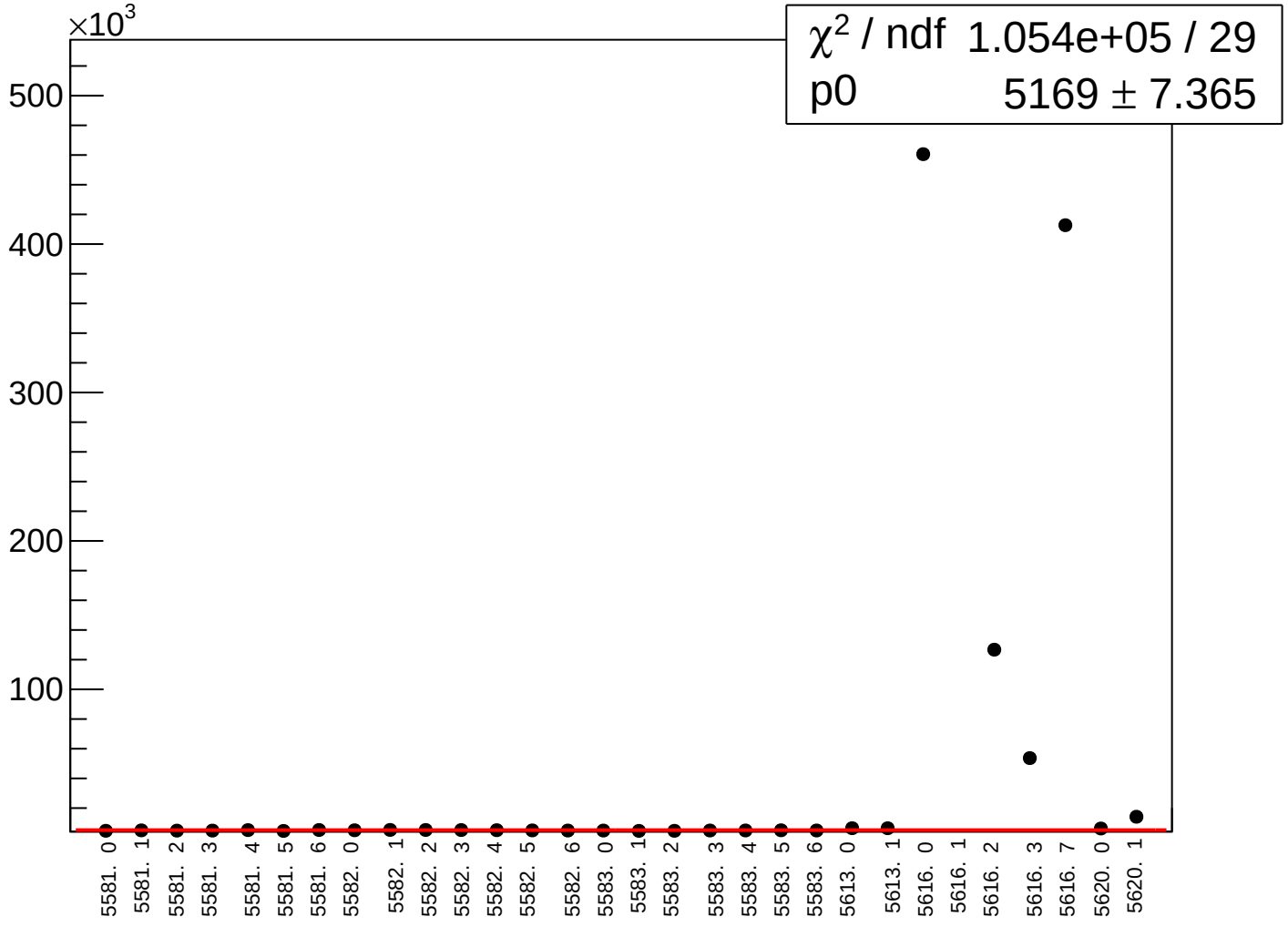

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 35.4 / 32
p0 3542 ± 8163
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 85.18
Std Dev 0
2
1
0
−1
−2

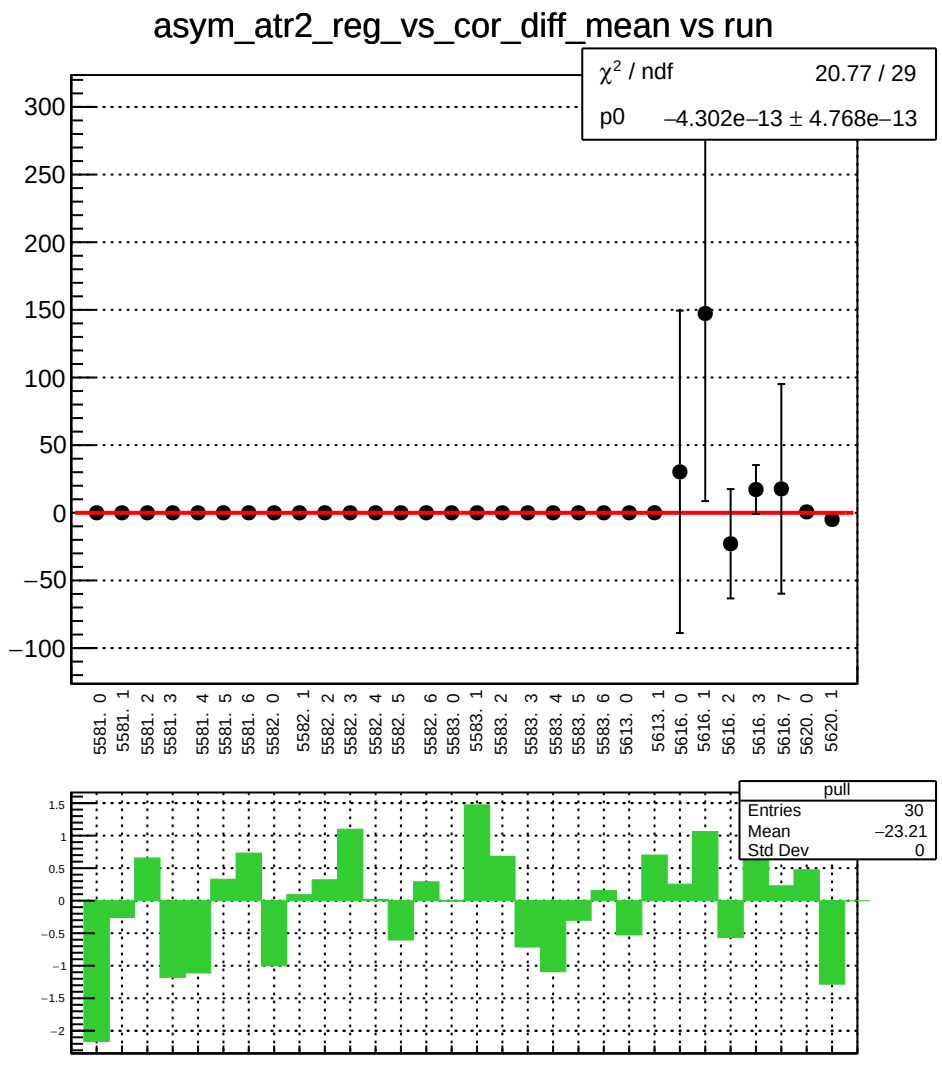

pull1D
Entries 33
Mean −0.02968
Std Dev 1.035
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

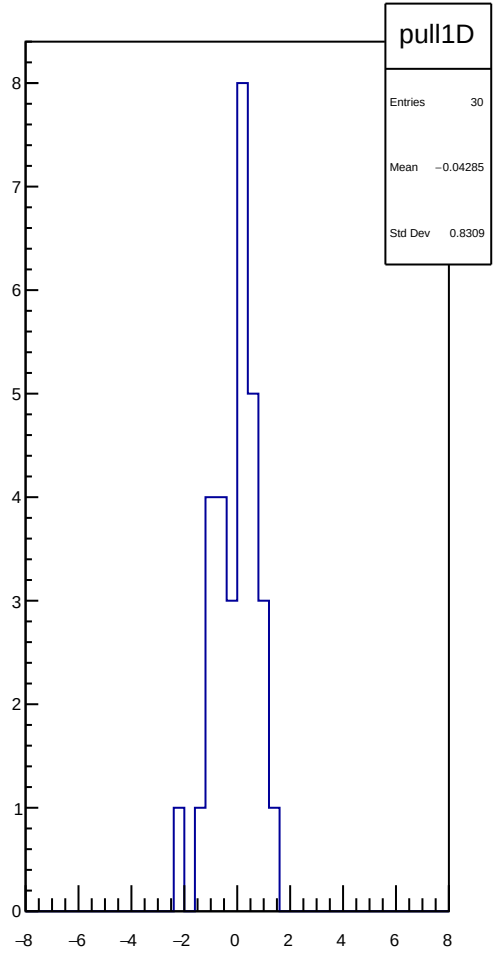

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 1330 / 32
p0 4656 ± 5.772
5200
5000
4800
4600
4400
4200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

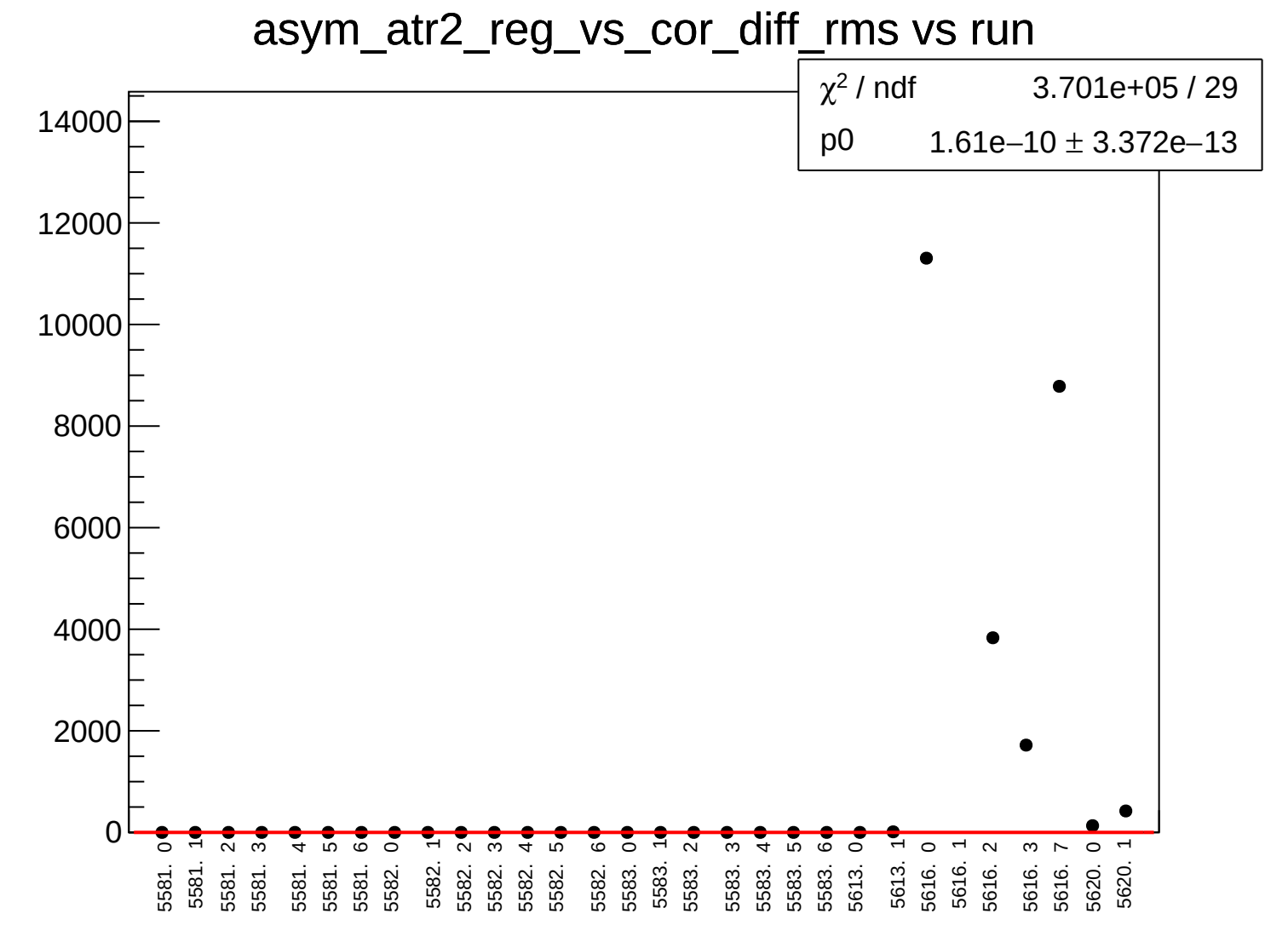

asym_atr2_mean vs run
×10^3
χ² / ndf 34.02 / 24
p0 −1.514e+04 ± 1.042e+04
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −257.3
Std Dev 0
3
2
1
0
−1
−2

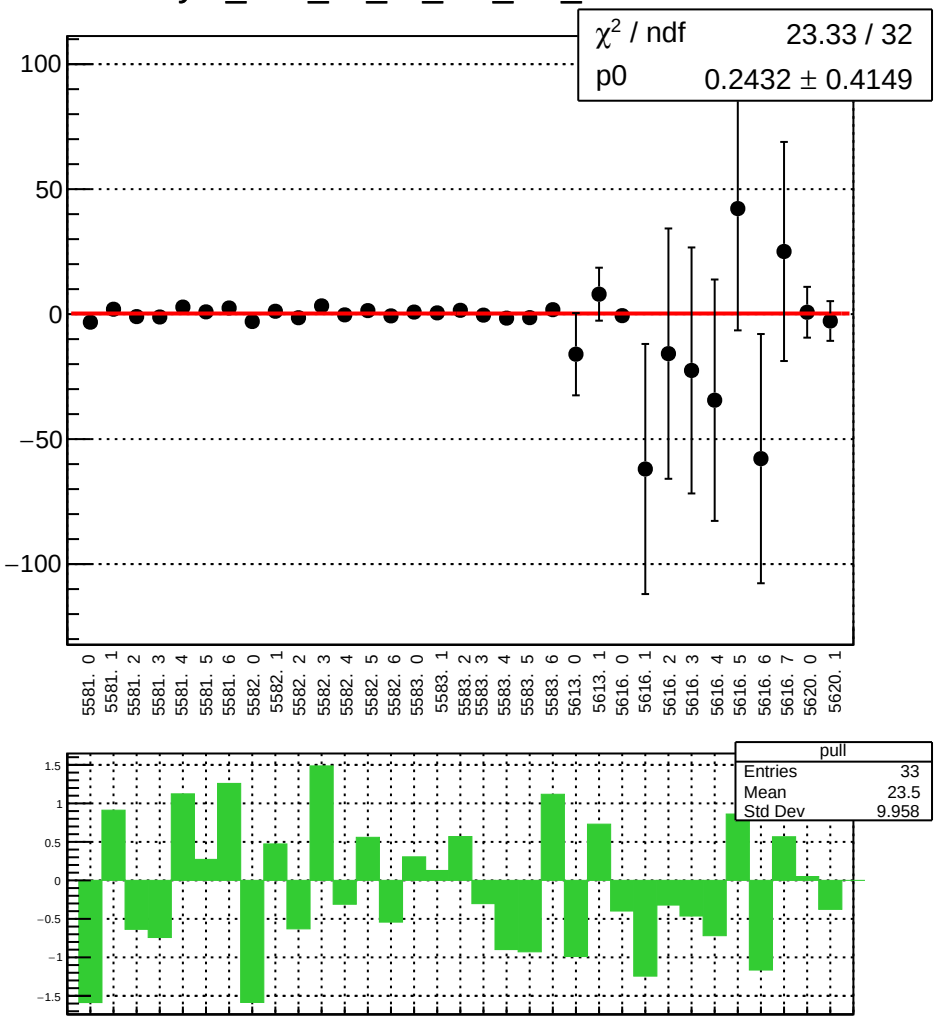

pull1D
Entries 25
Mean −0.005419
Std Dev 1.166
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

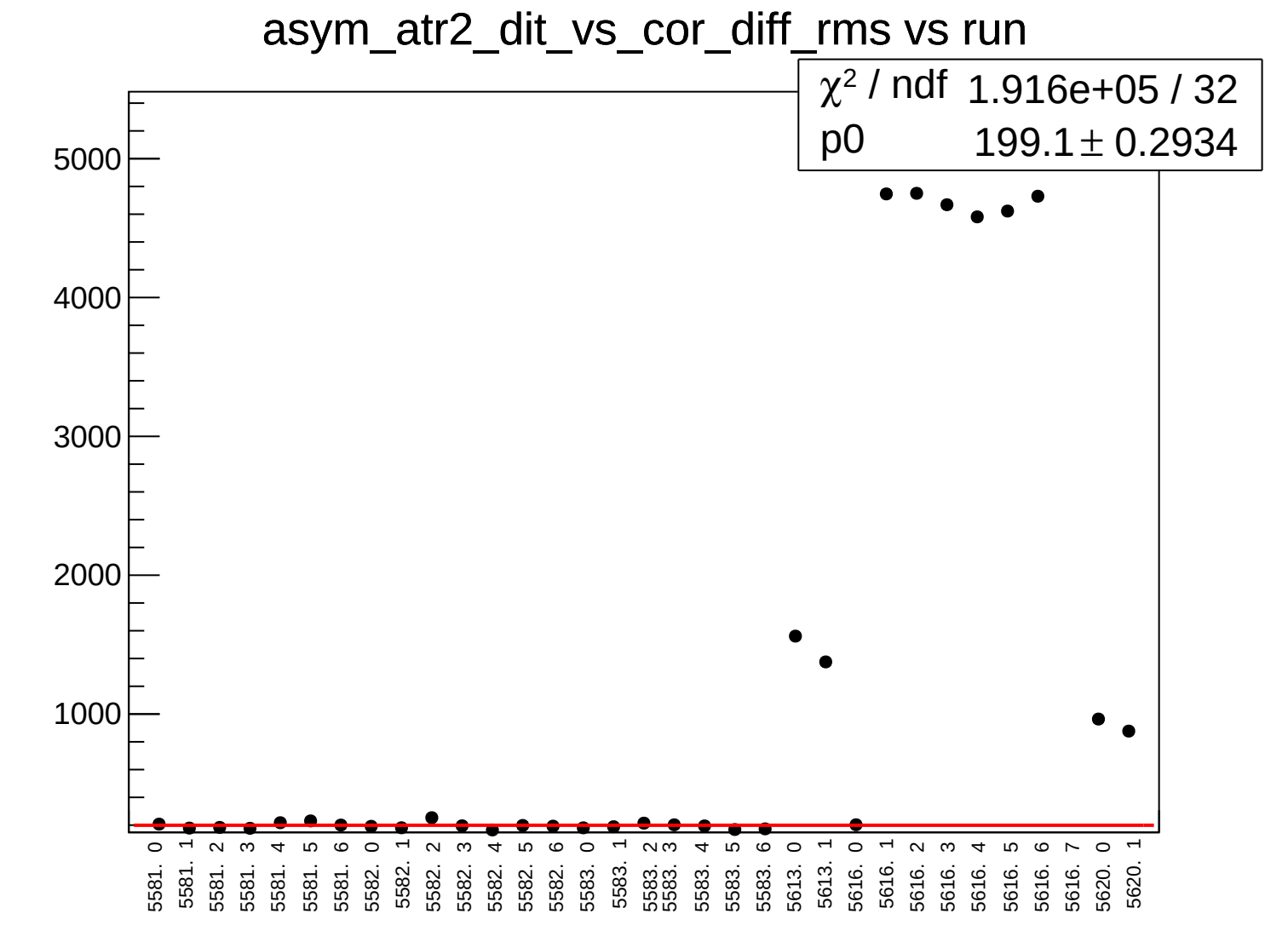

asym_atr2_rms vs run
×10^3
500
400
300
200
100
χ² / ndf 1.054e+05 / 29
p0 5169 ± 7.365
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

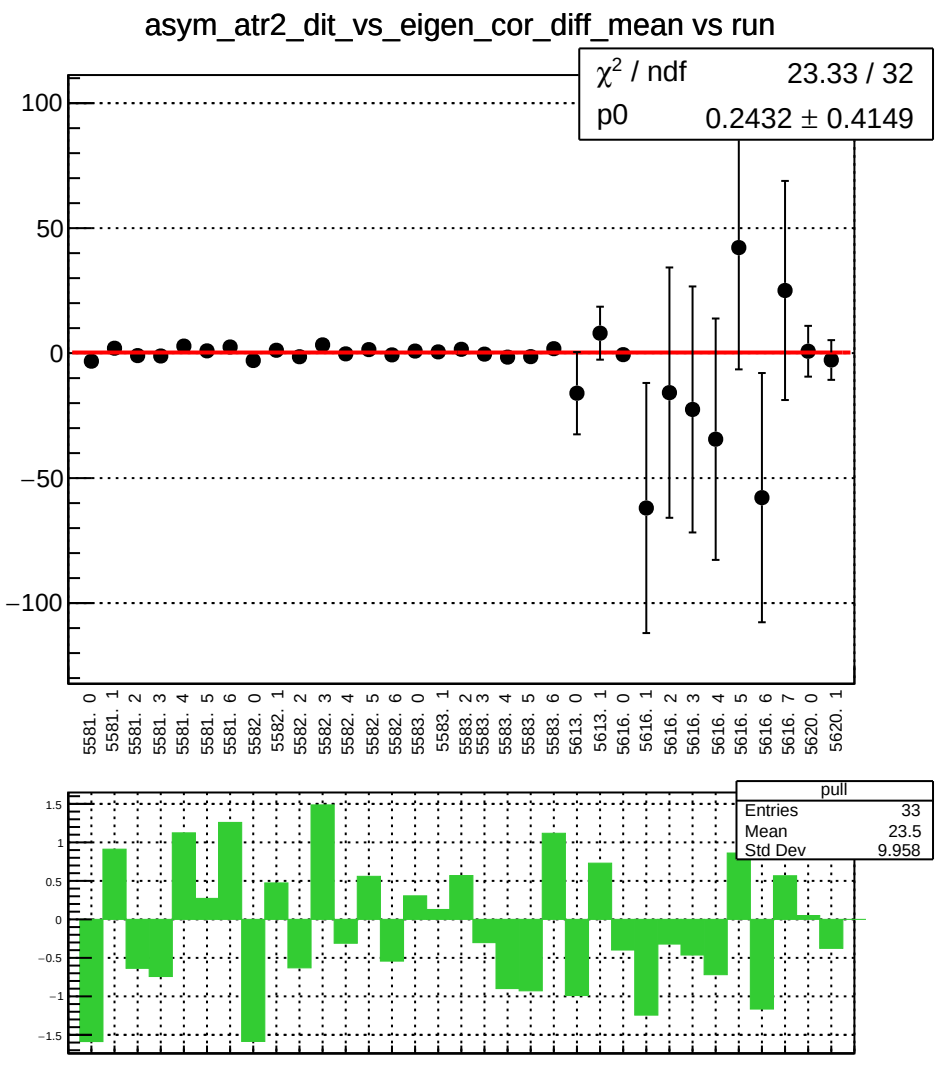

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 20.77 / 29
p0 −4.302e−13 ± 4.768e−13
300
250
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean −23.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

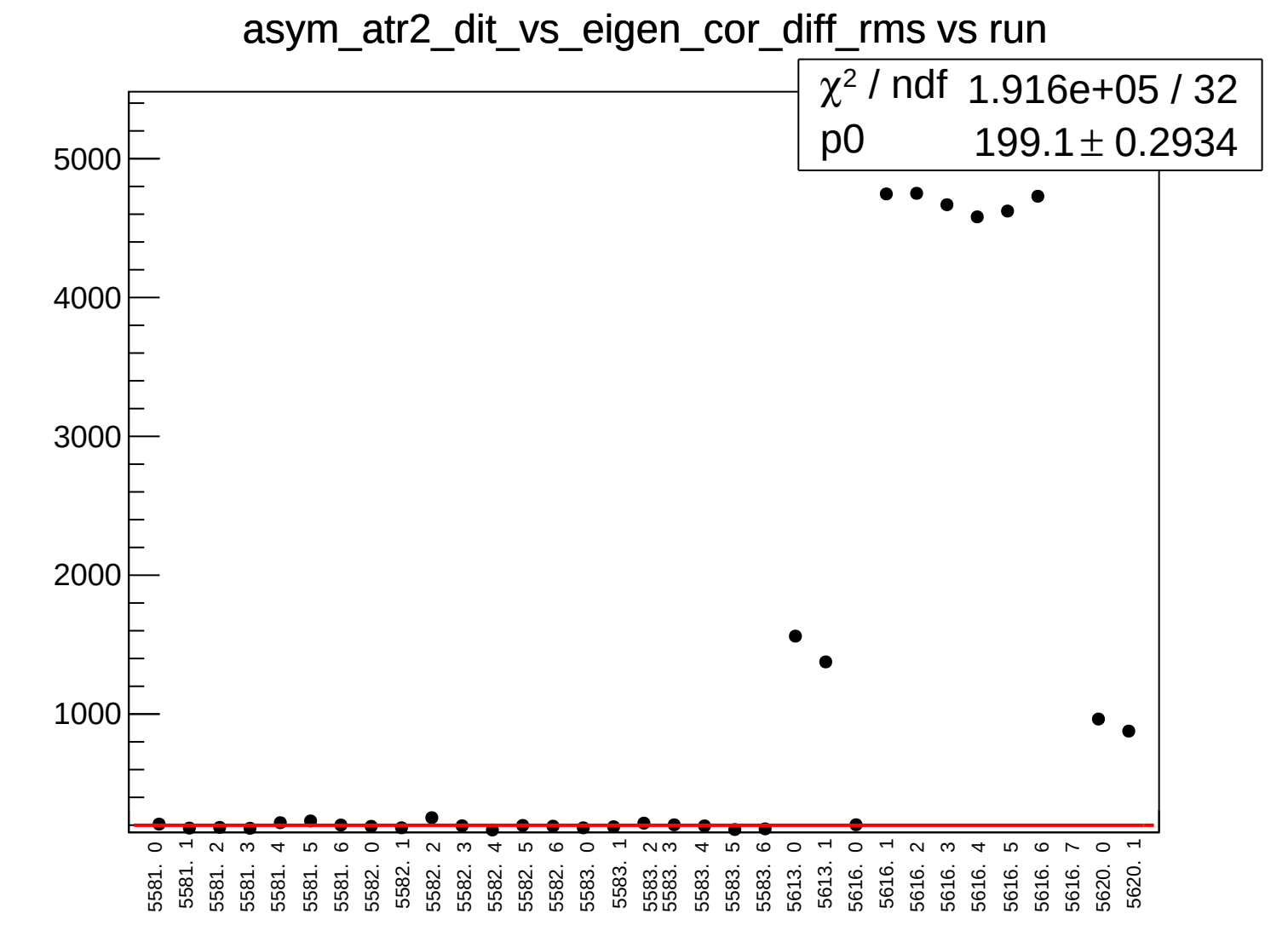

pull1D
Entries 30
Mean −0.04285
Std Dev 0.8309
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

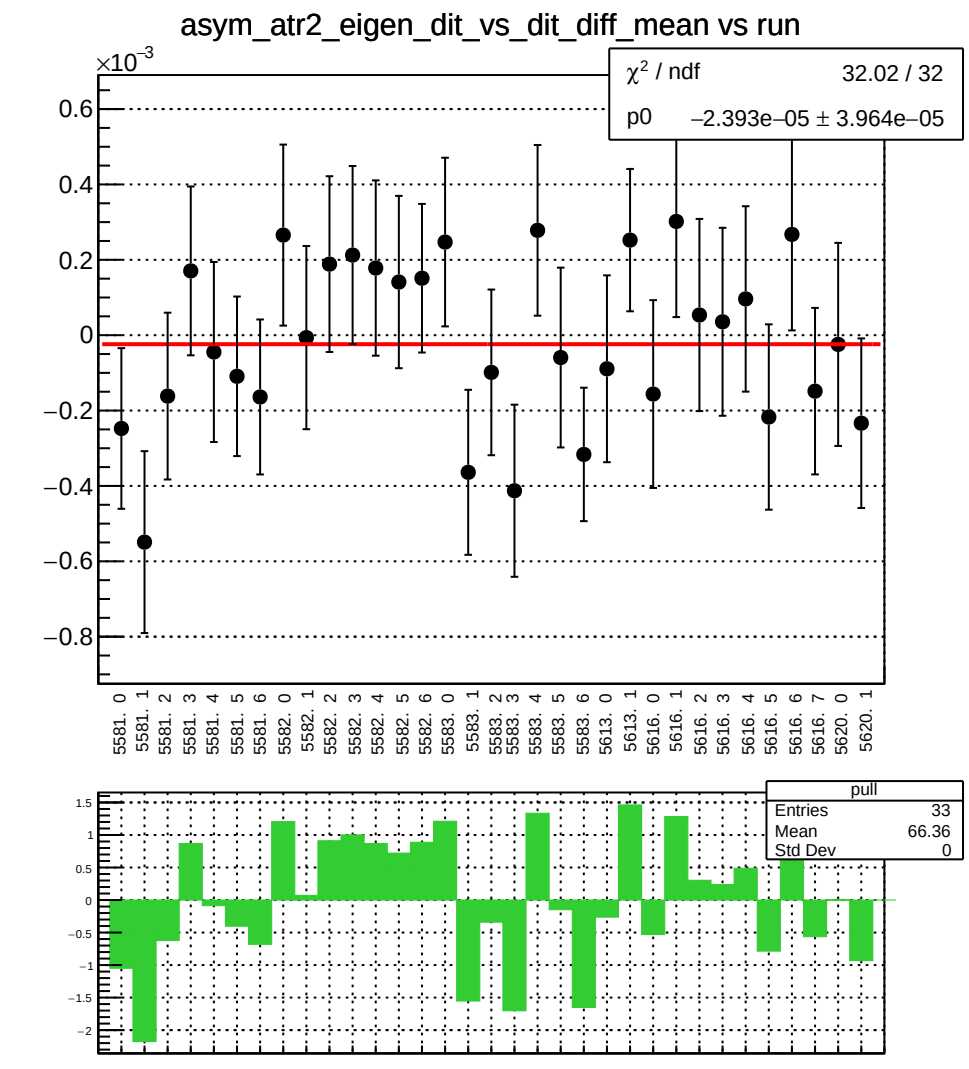

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 3.701e+05 / 29
p0 1.61e−10 ± 3.372e−13
14000
12000
10000
8000
6000
4000
2000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

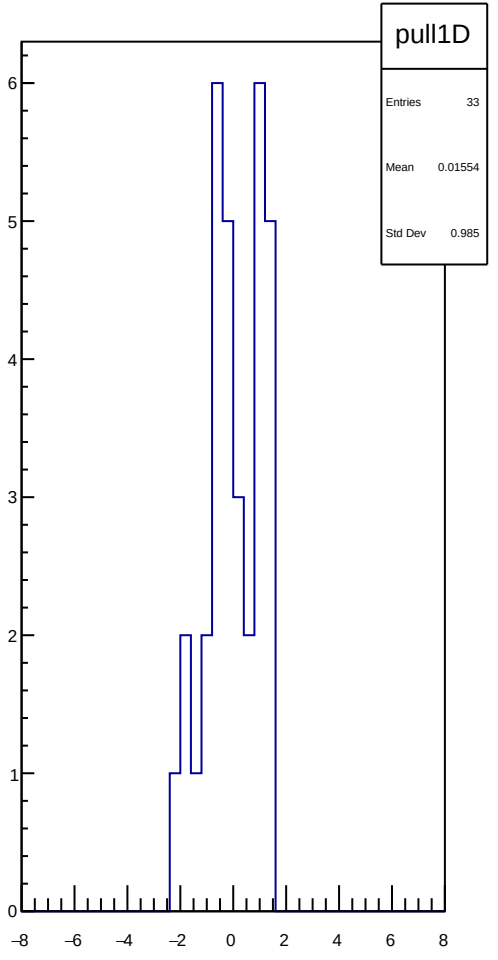

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 23.33 / 32
p0 0.2432 ± 0.4149
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.5
Std Dev 9.958
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1036
Std Dev 0.8344
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

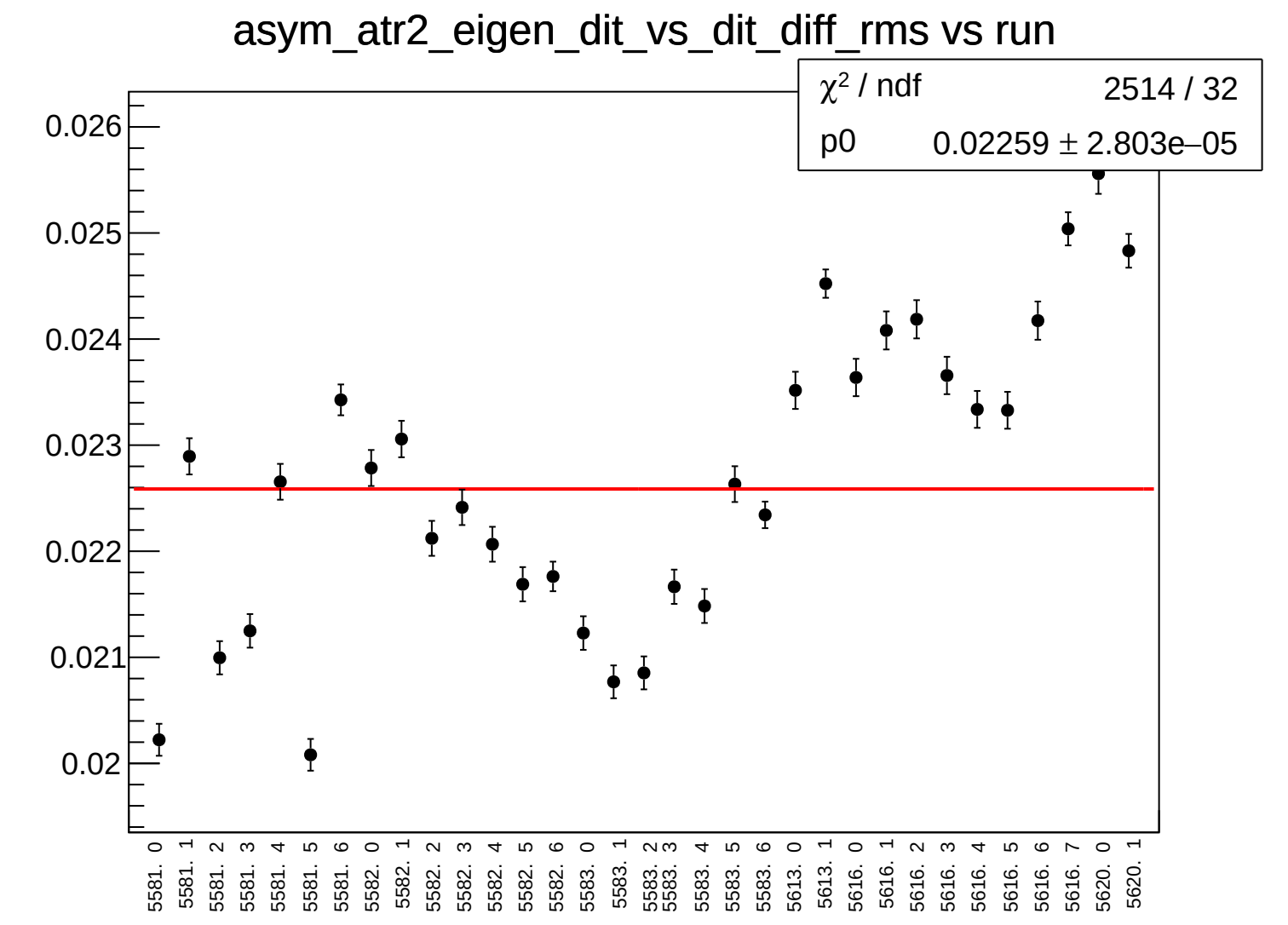

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.916e+05 / 32
p0 199.1 ± 0.2934
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

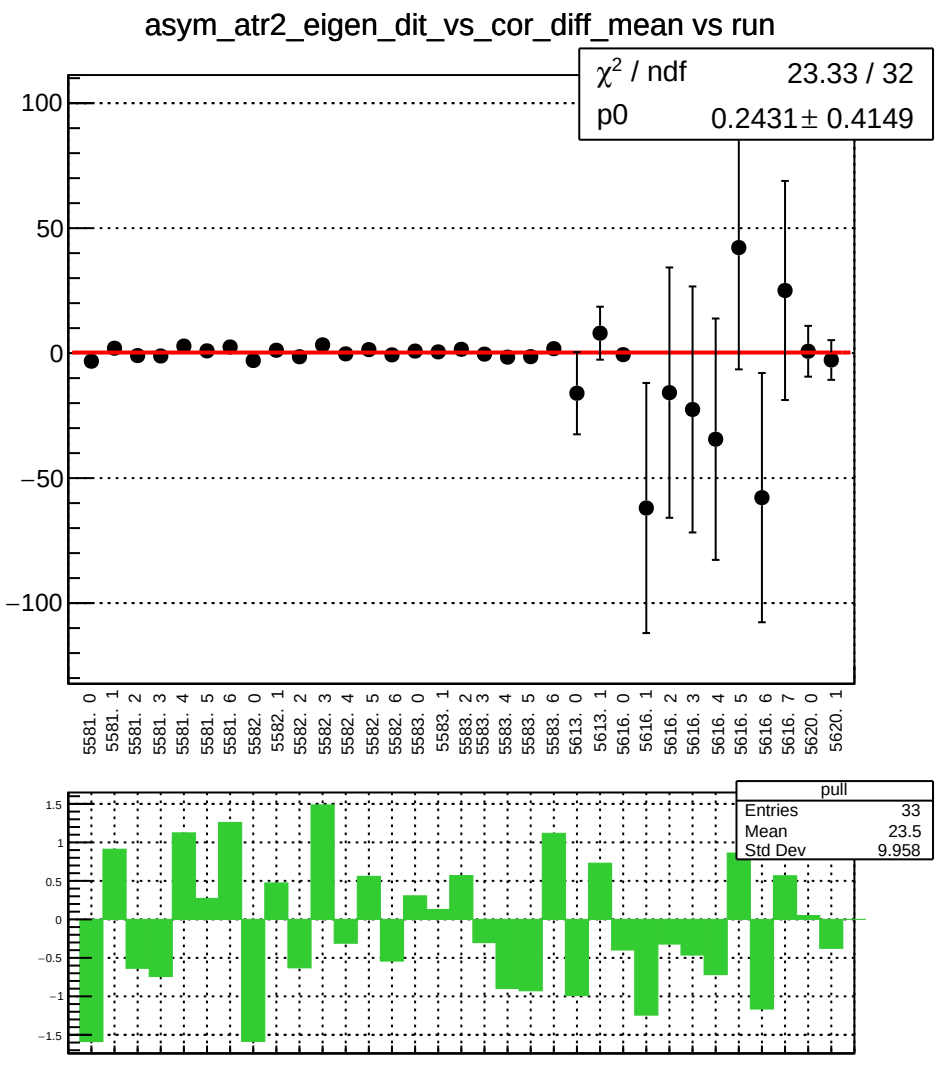

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.33 / 32
p0 0.2432 ± 0.4149
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.5
Std Dev 9.958
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1036
Std Dev 0.8344
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

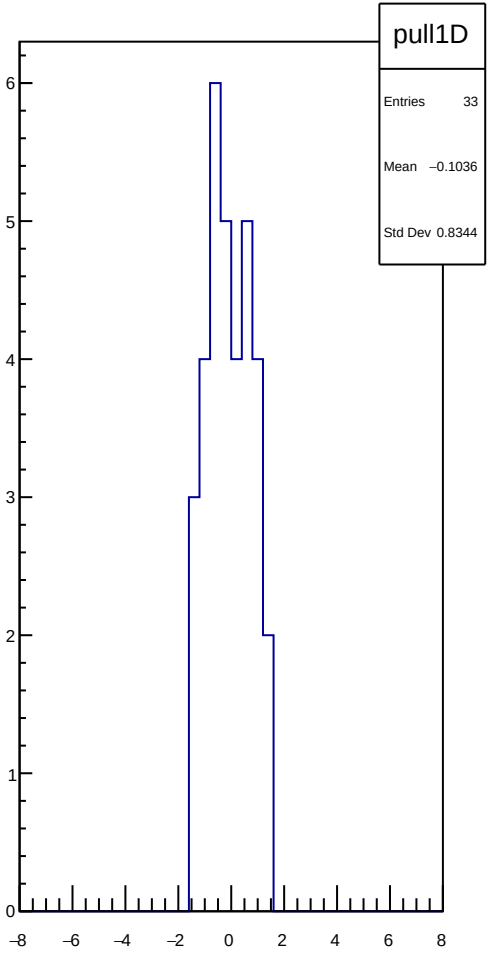

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.916e+05 / 32
p0 199.1 ± 0.2934
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

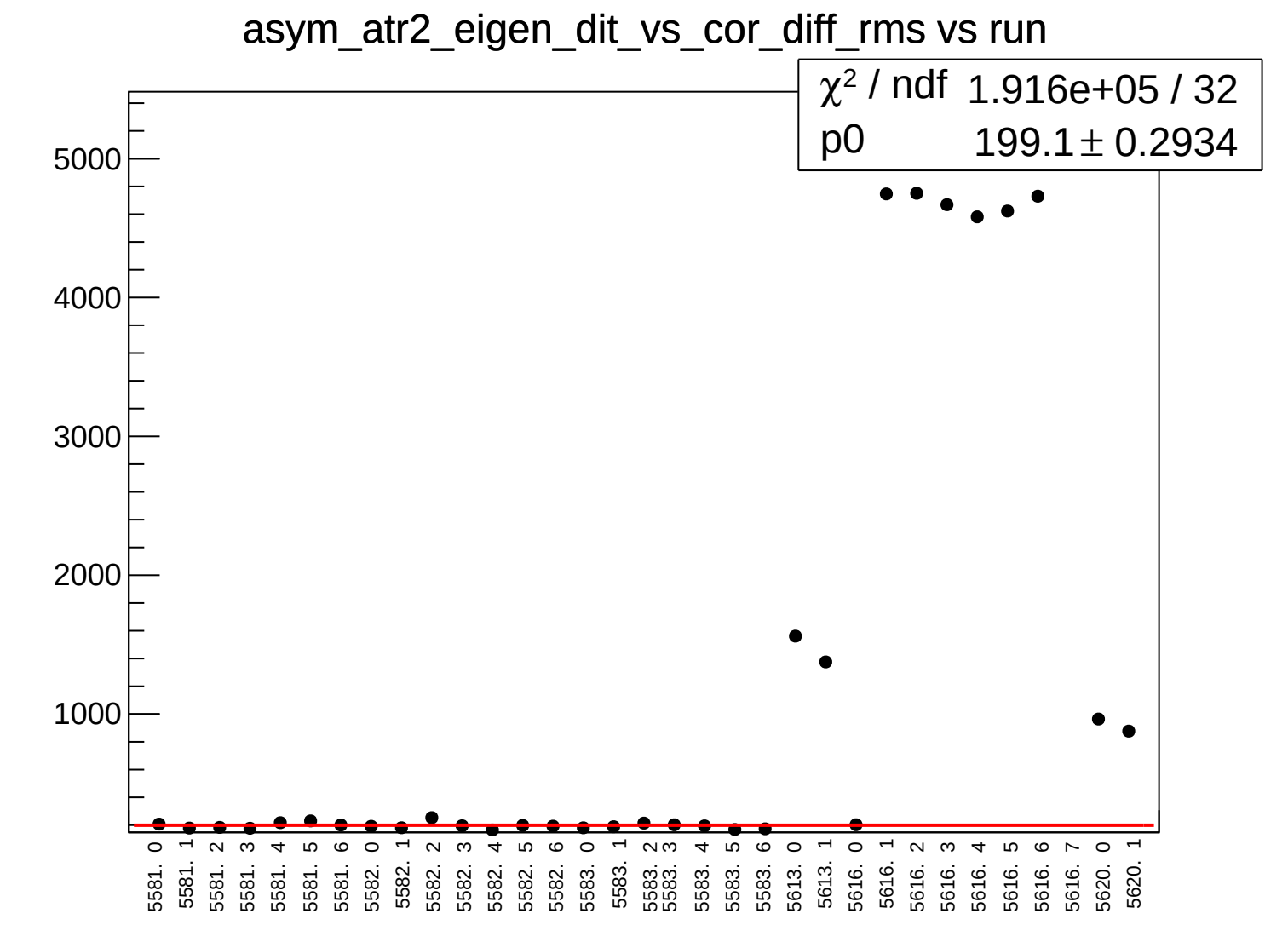

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.02 / 32
p0 −2.393e−05 ± 3.964e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 66.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

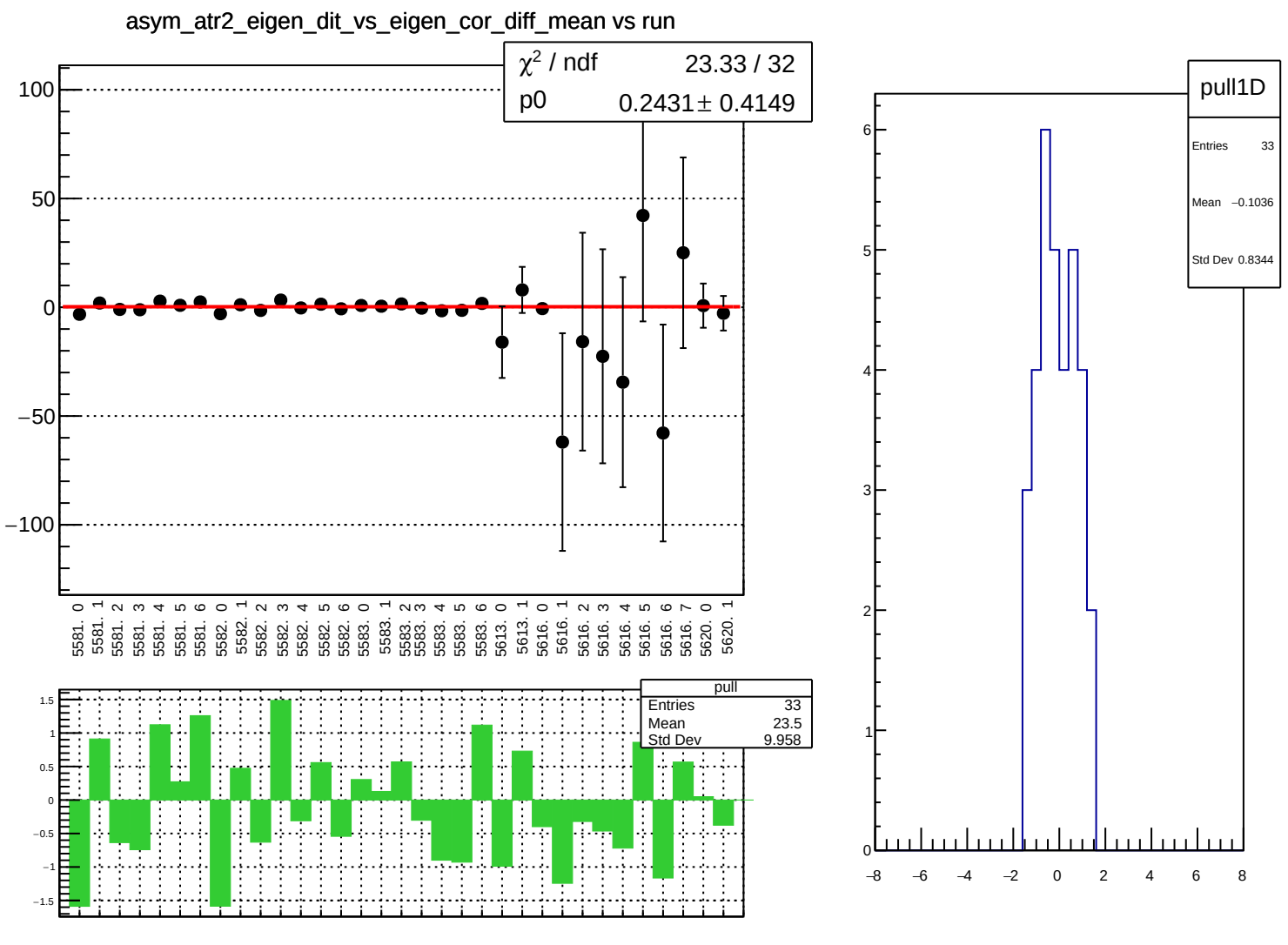

pull1D
Entries 33
Mean 0.01554
Std Dev 0.985
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

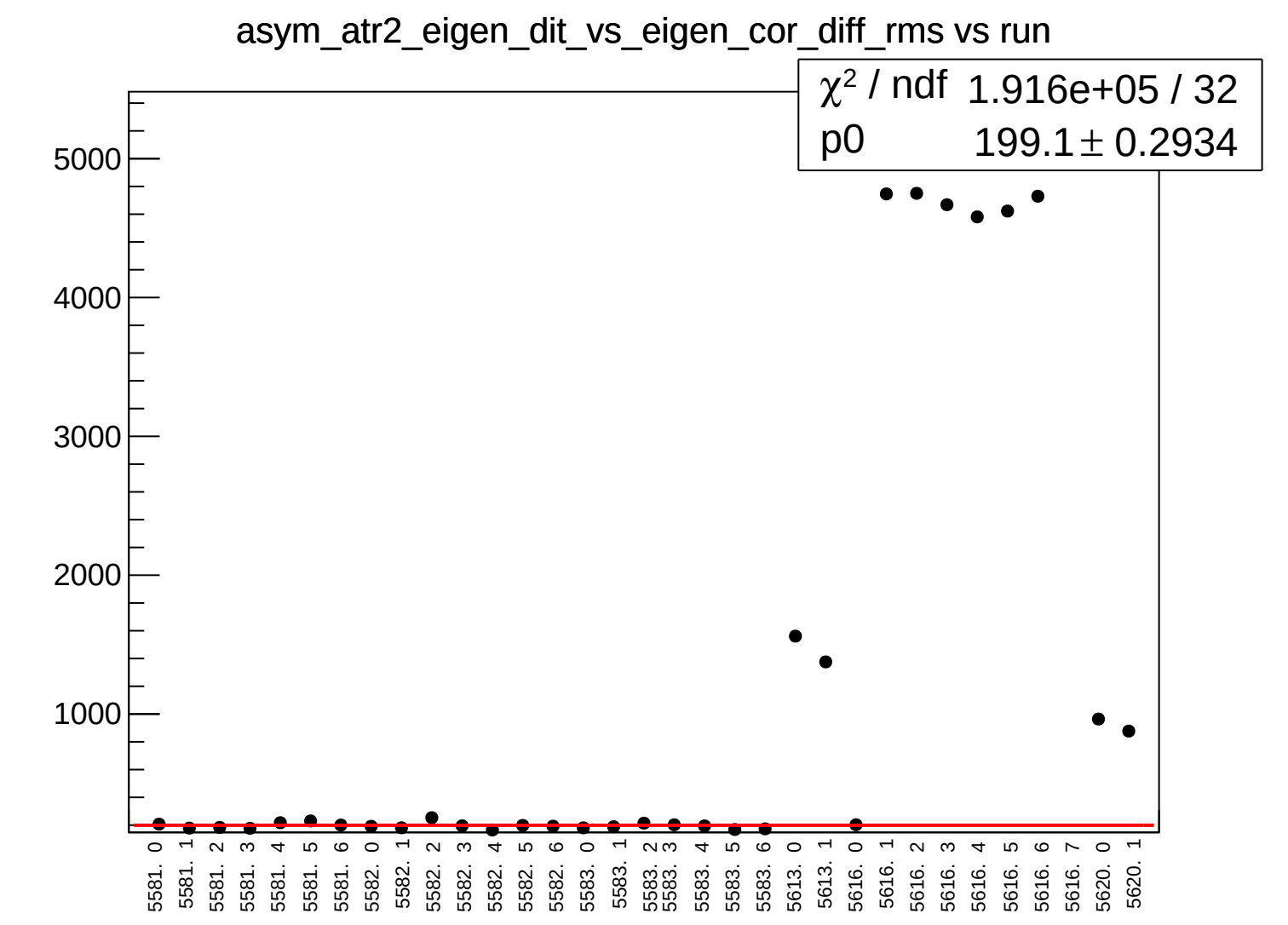

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2514 / 32
p0 0.02259 ± 2.803e−05
0.026
0.025
0.024
0.023
0.022
0.021
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

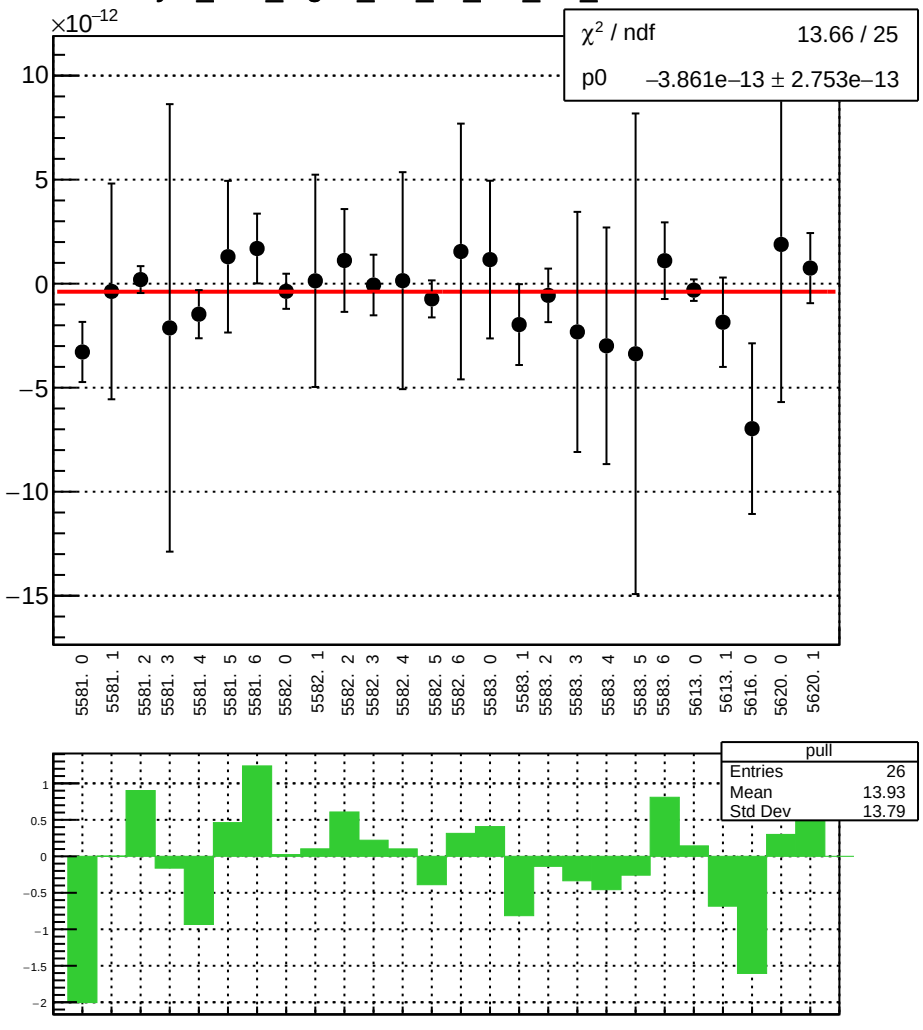

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.33 / 32
p0 0.2431± 0.4149
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.5
Std Dev 9.958
1.5
1
0.5
0
−0.5
−1
−1.5

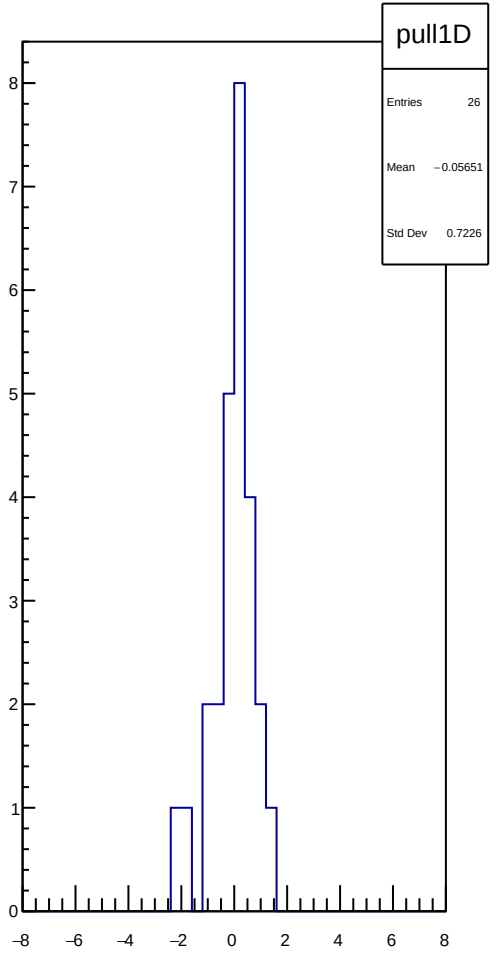

pull1D
Entries 33
Mean −0.1036
Std Dev 0.8344
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

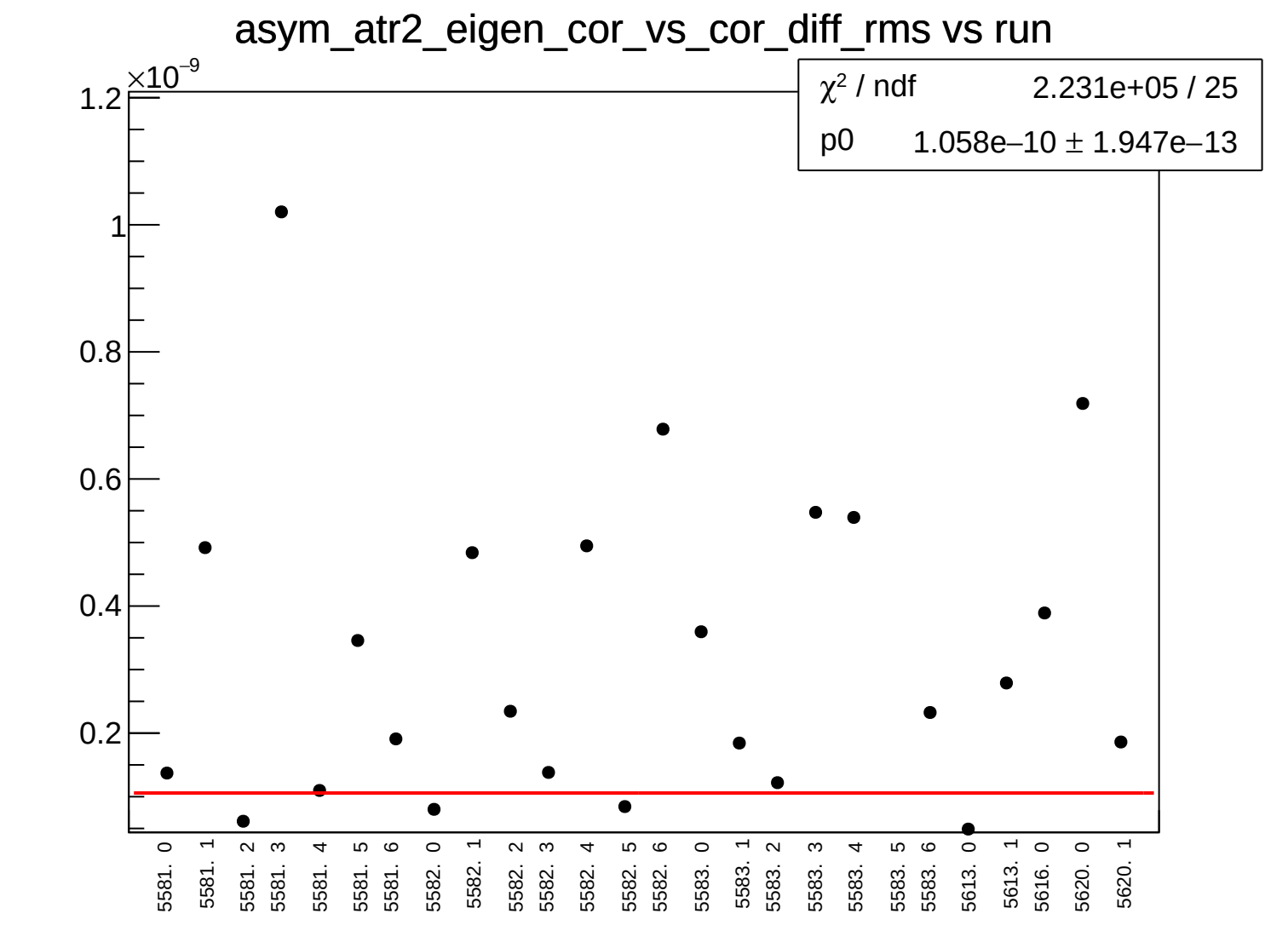

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.916e+05 / 32
p0 199.1 ± 0.2934
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

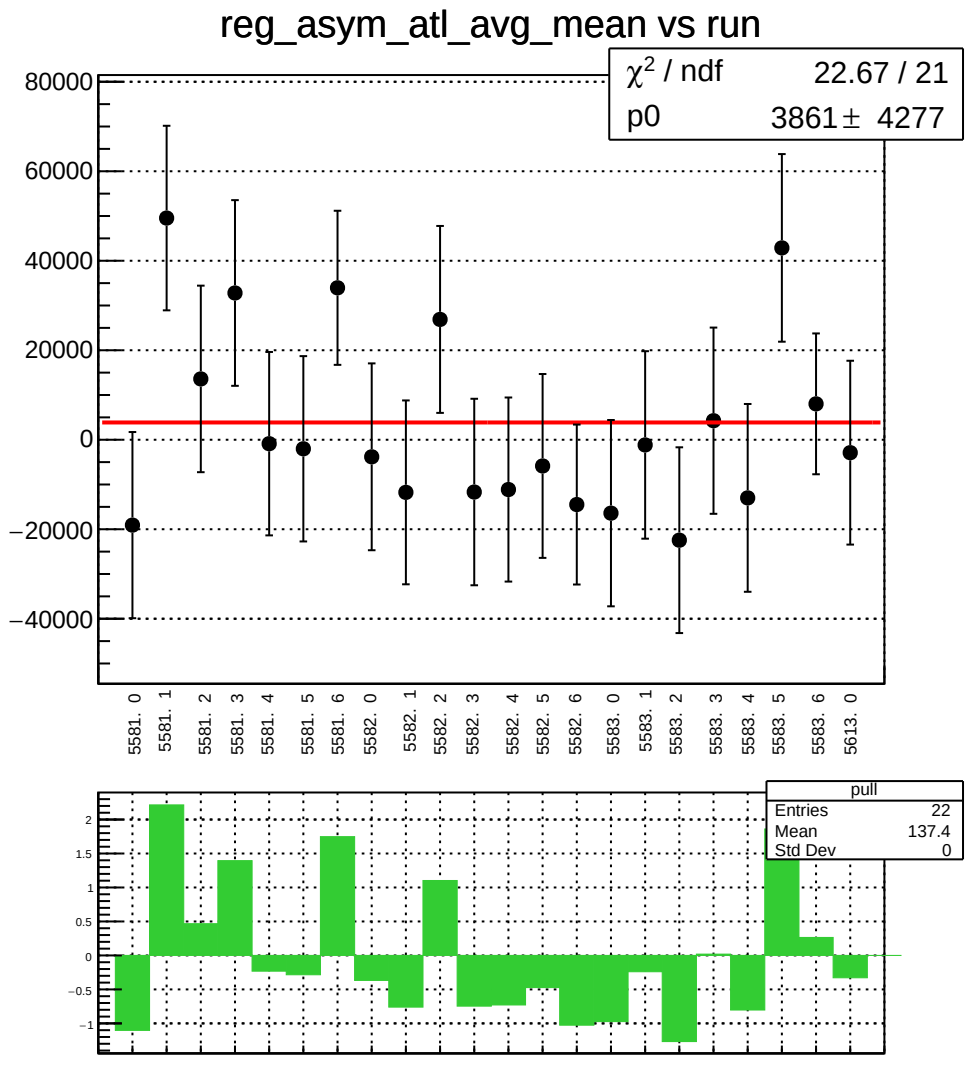

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.33 / 32
p0 0.2431 ± 0.4149
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.5
Std Dev 9.958
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1036
Std Dev 0.8344
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

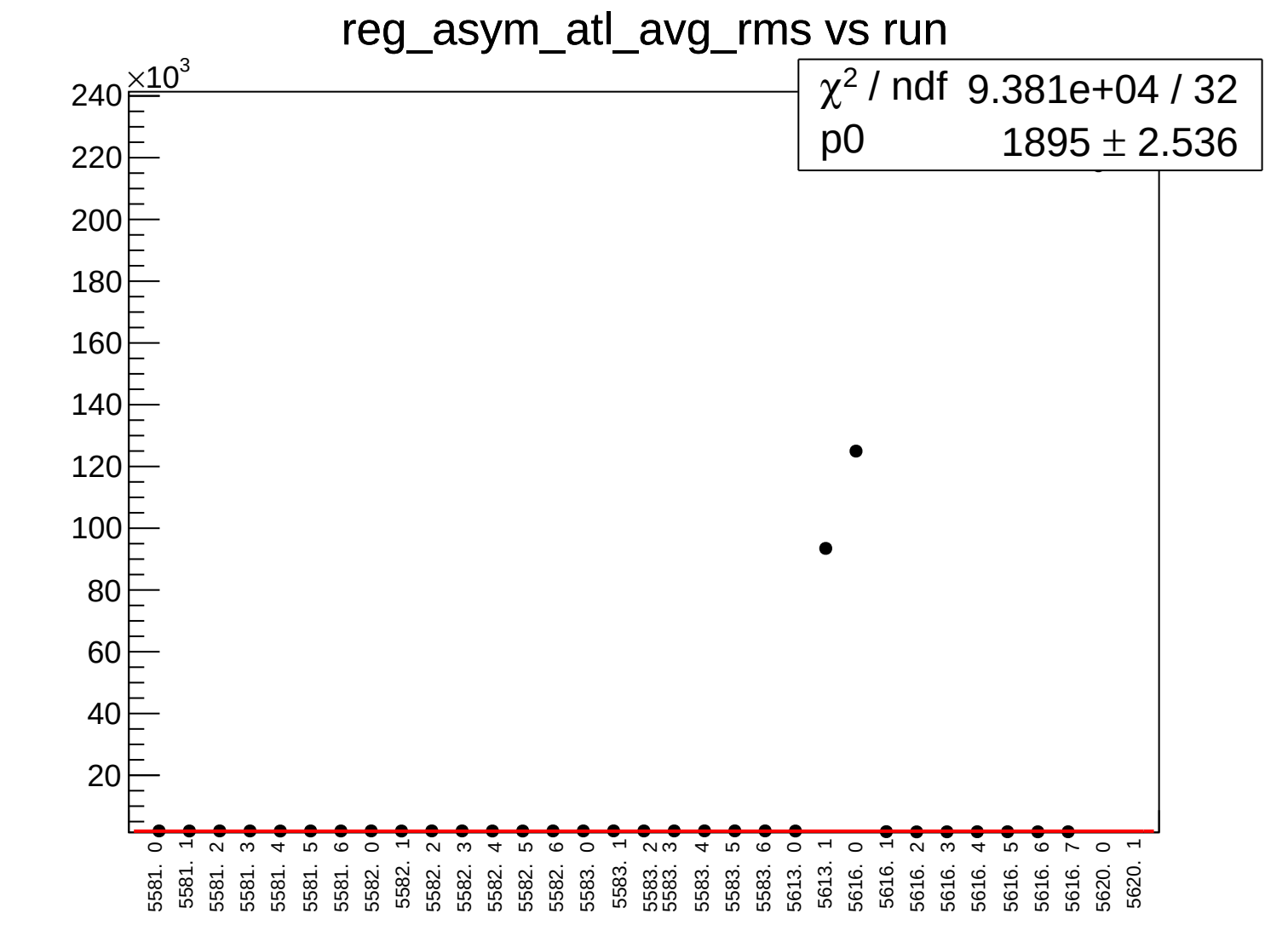

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.916e+05 / 32
p0 199.1 ± 0.2934
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

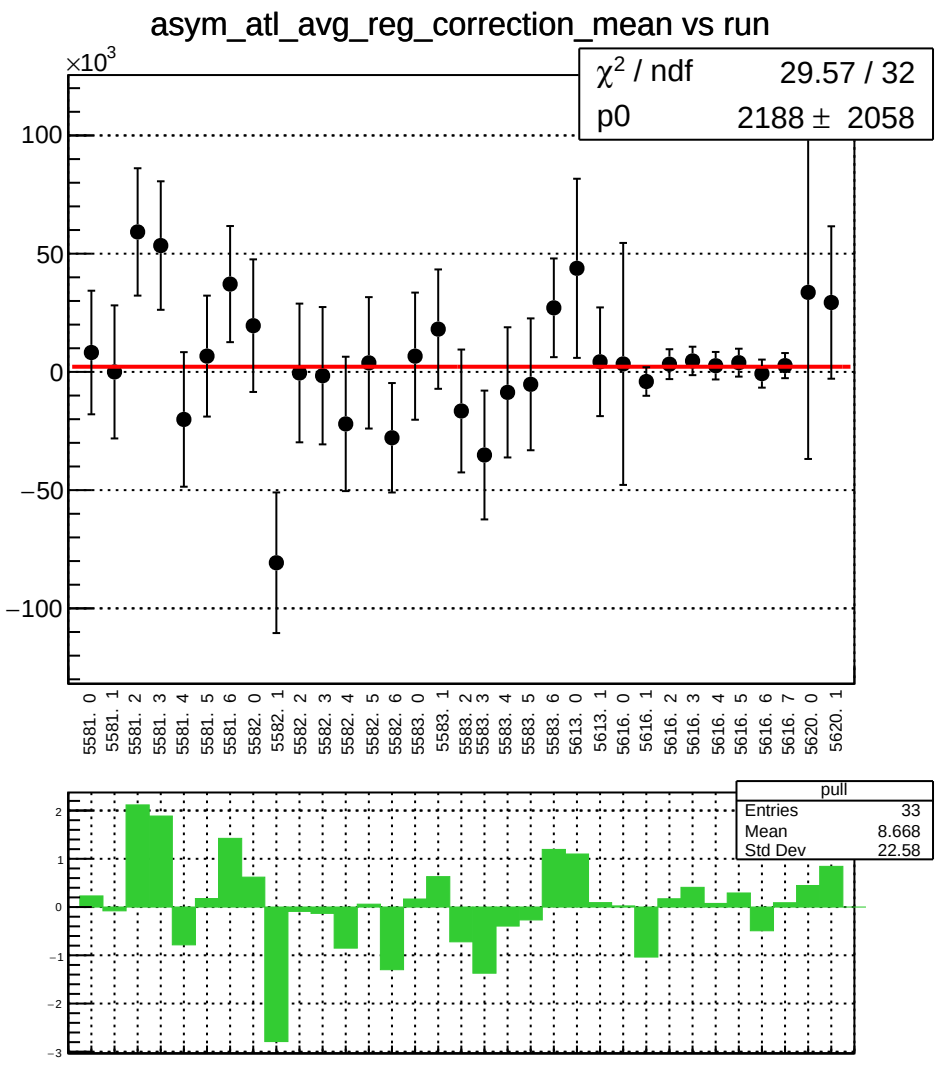

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 13.66 / 25
p0 −3.861e−13 ± 2.753e−13
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 13.93
Std Dev 13.79
1
0.5
0
−0.5
−1
−1.5
−2

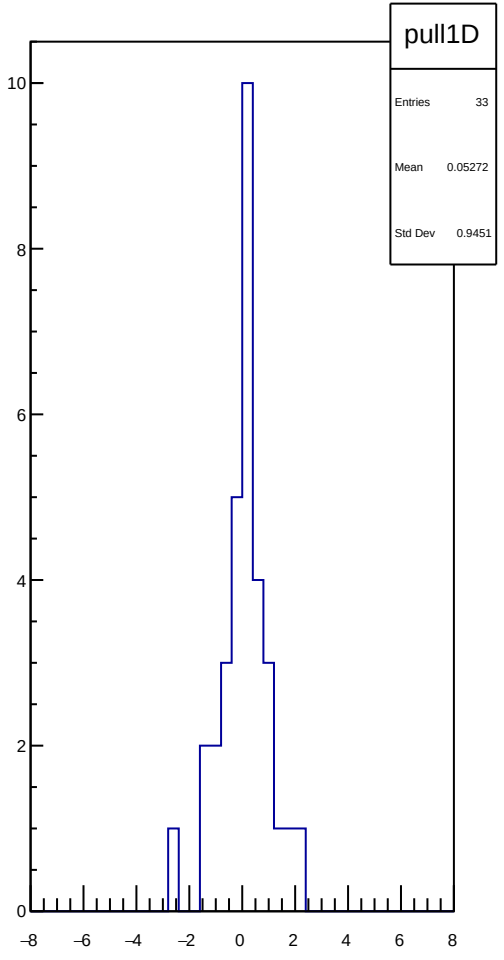

pull1D
Entries 26
Mean −0.05651
Std Dev 0.7226
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

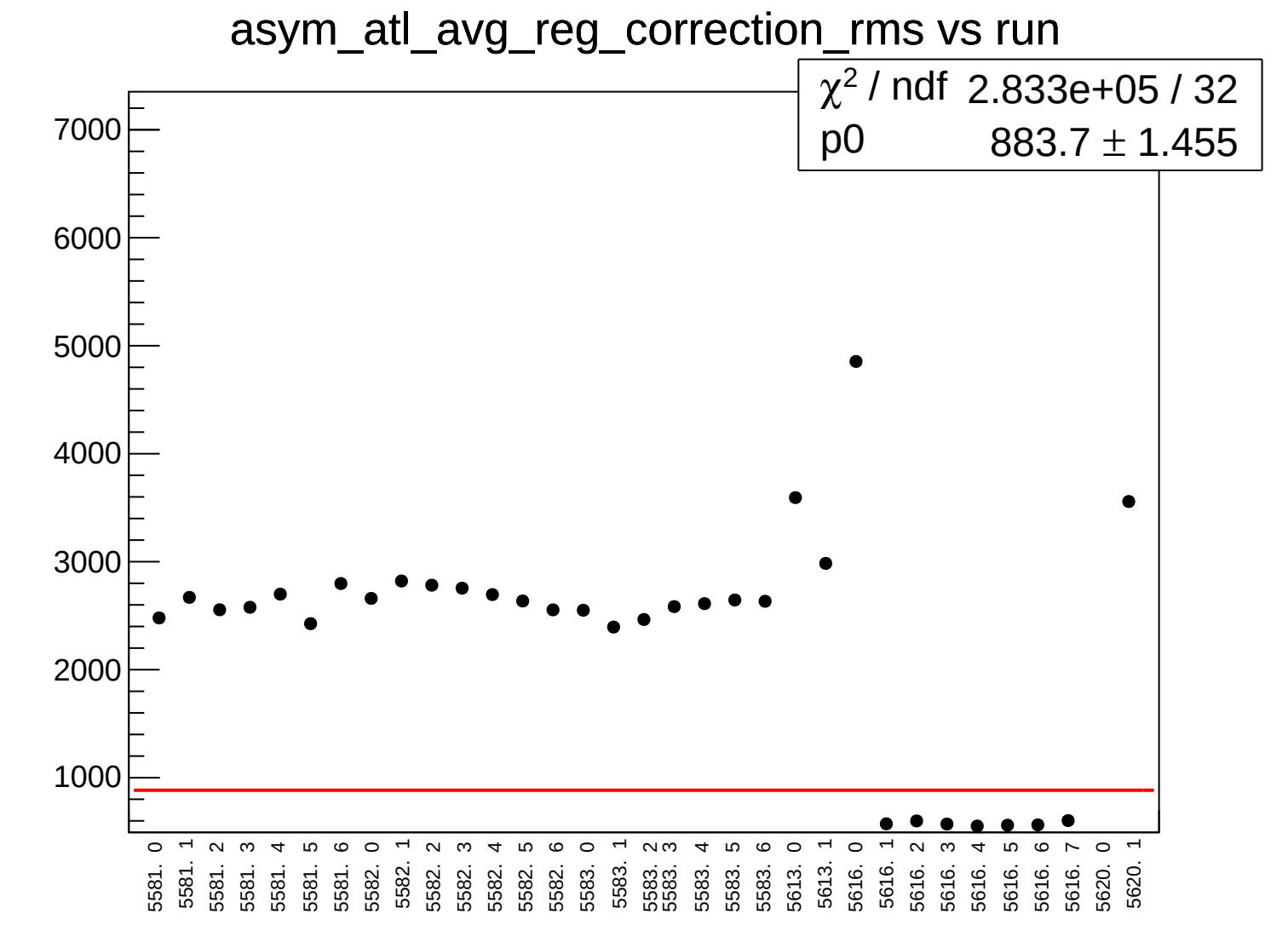

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.231e+05 / 25
p0 1.058e−10 ± 1.947e−13
1.2
1
0.8
0.6
0.4
0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

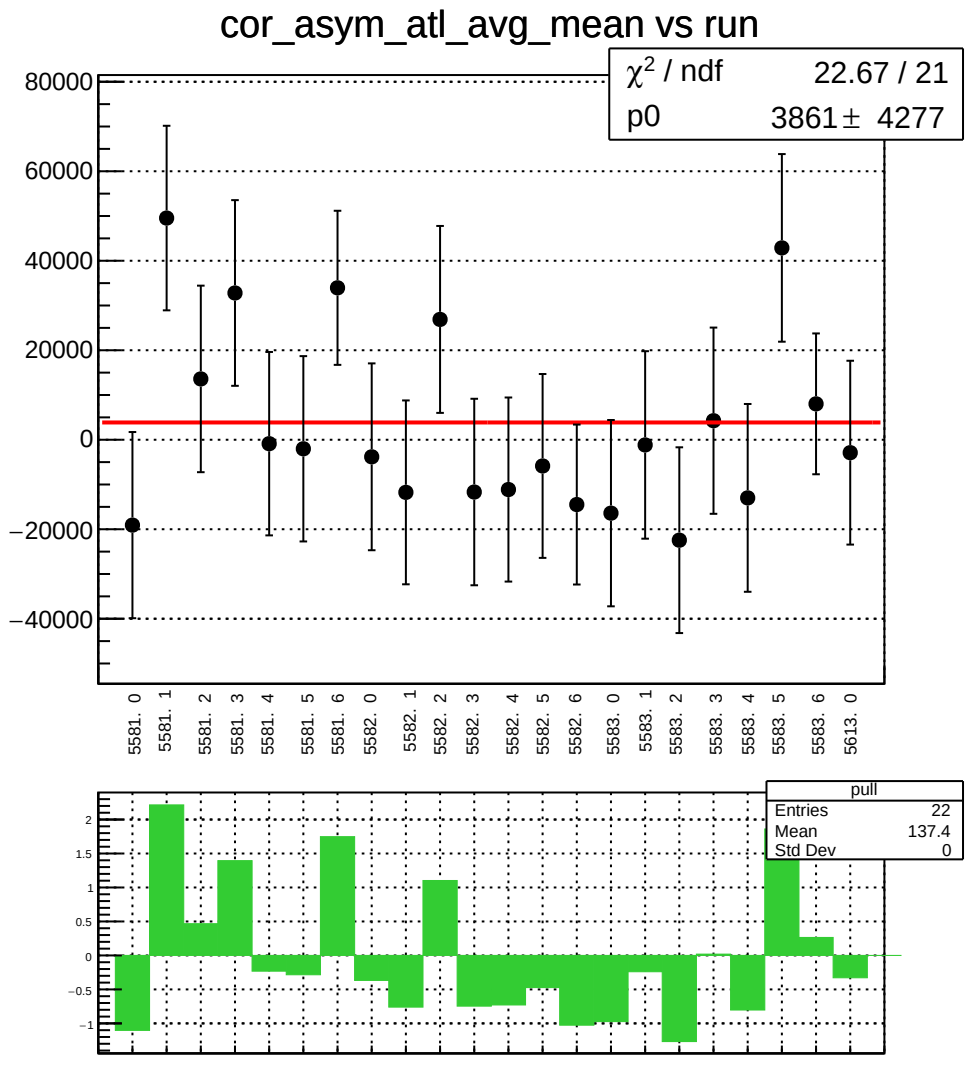

reg_asym_atl_avg_mean vs run
χ² / ndf 22.67 / 21
p0 3861 ± 4277
80000
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 137.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 22
Mean −0.01183
Std Dev 1.015
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

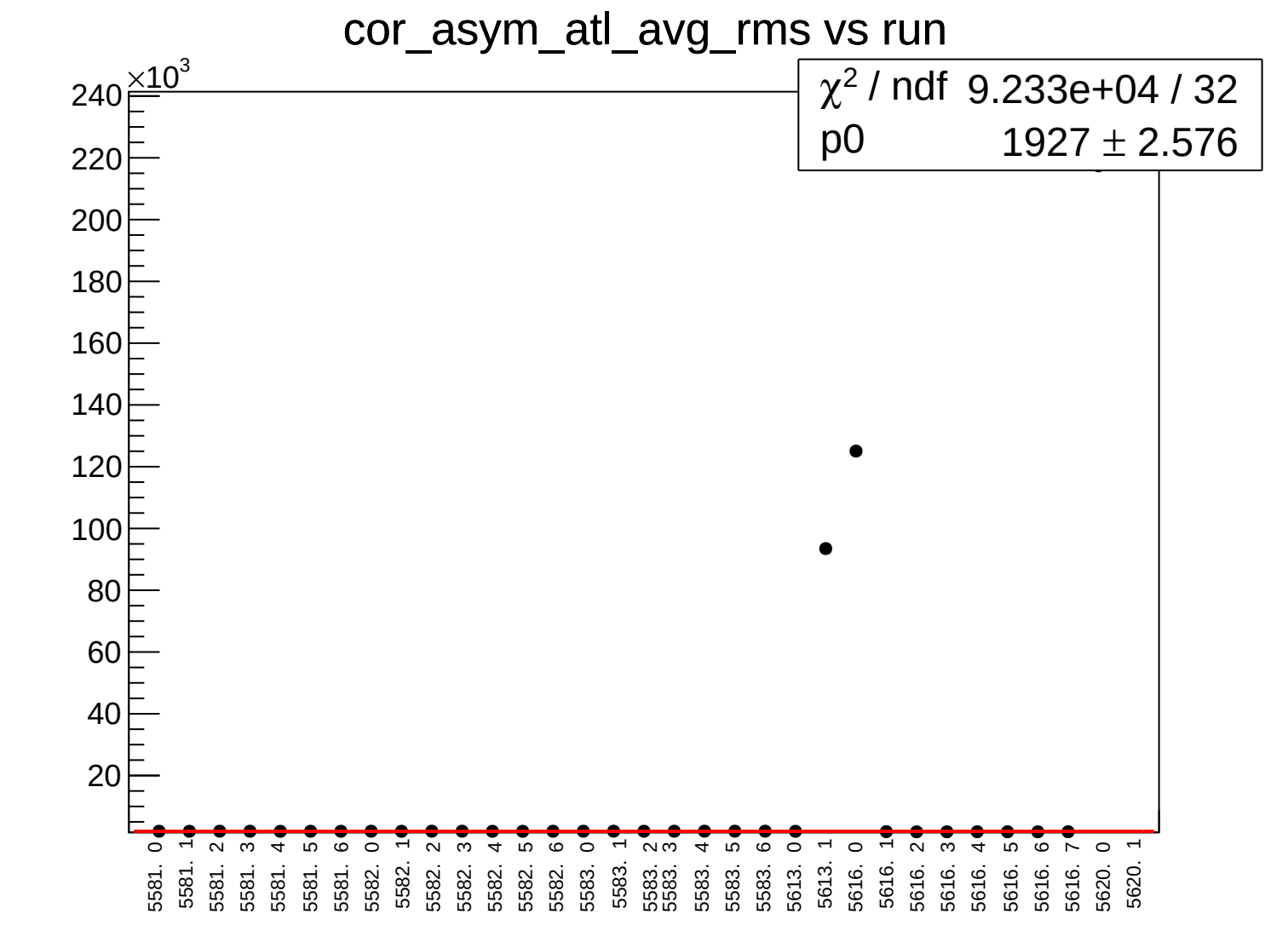

reg_asym_atl_avg_rms vs run
χ^2 / ndf 9.381e+04 / 32
p0 1895 ± 2.536
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

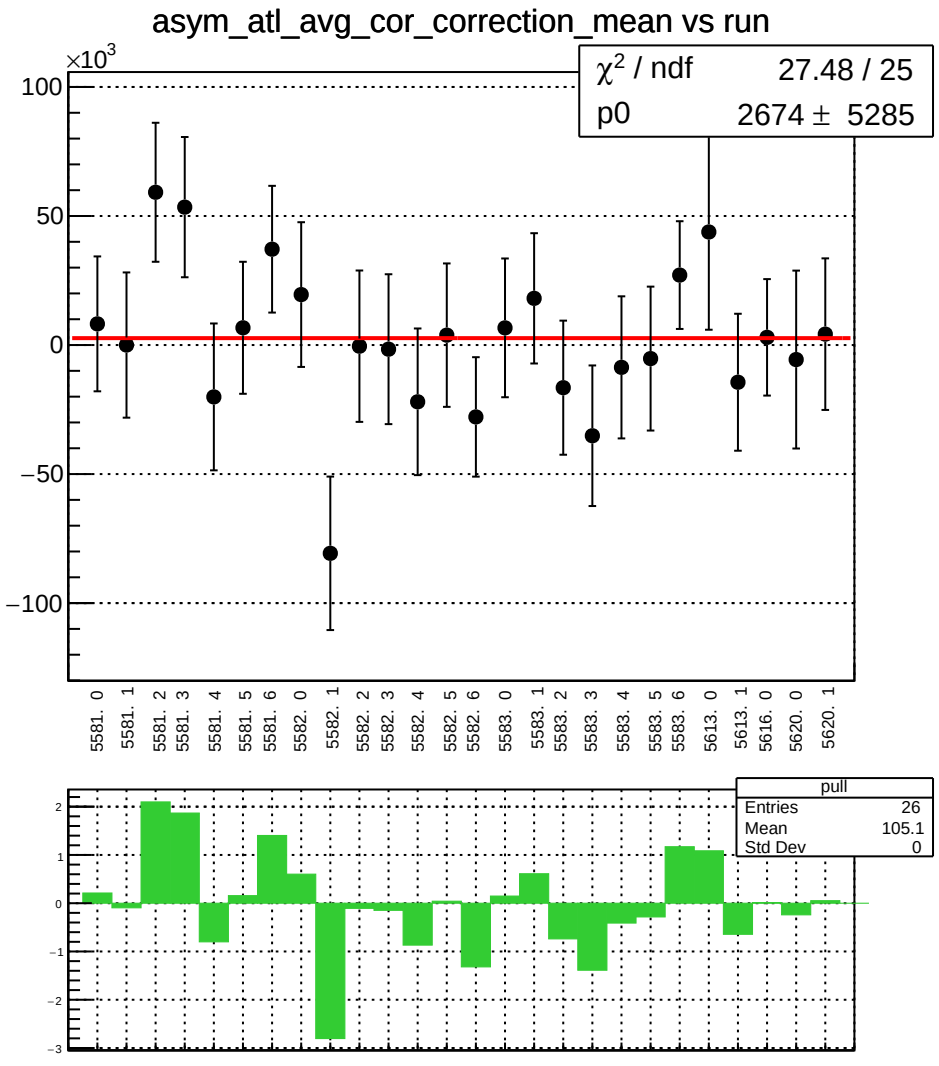

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 29.57 / 32
p0 2188 ± 2058
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 8.668
Std Dev 22.58
2
1
0
−1
−2
−3

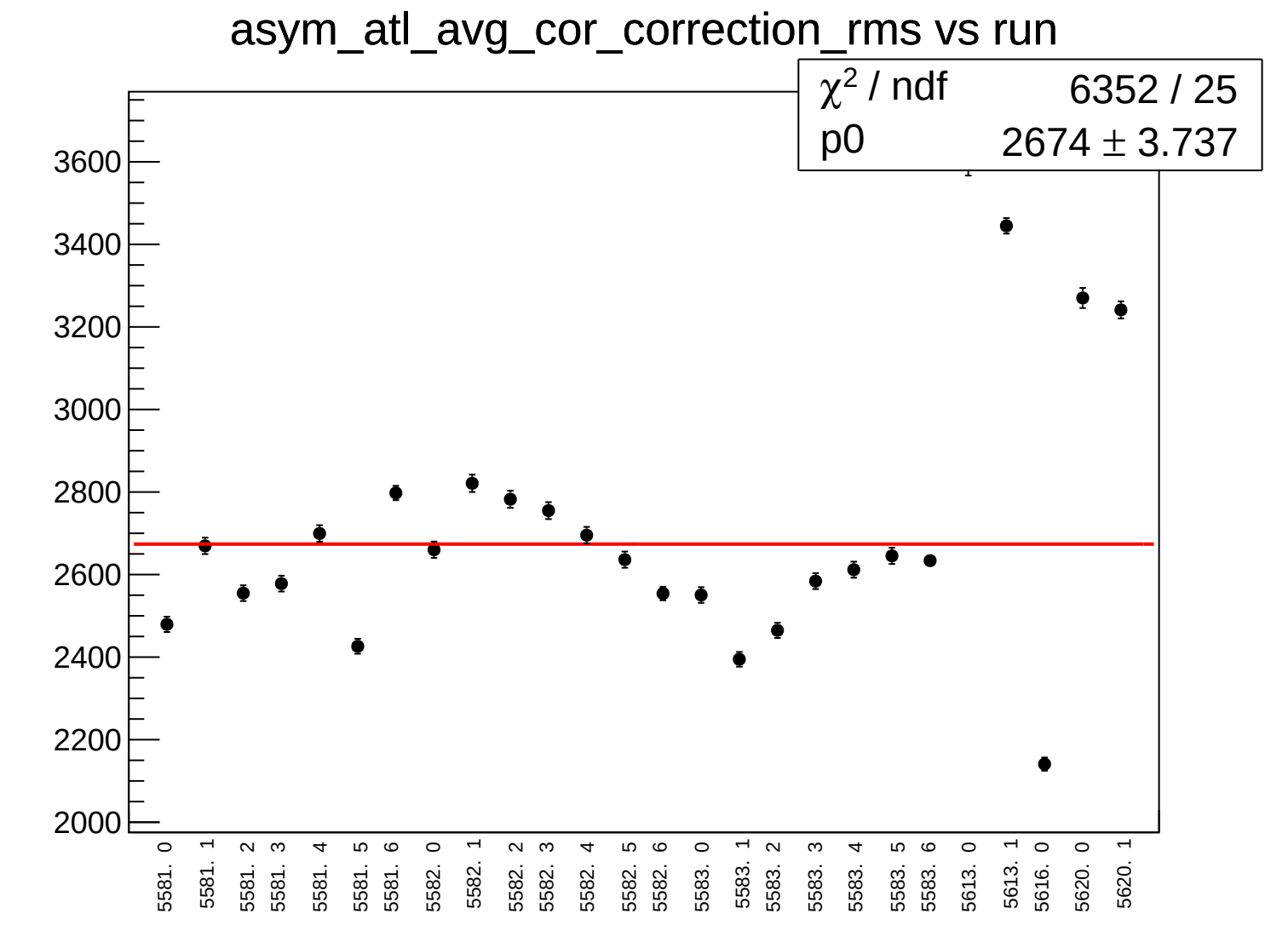

pull1D
Entries 33
Mean 0.05272
Std Dev 0.9451
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

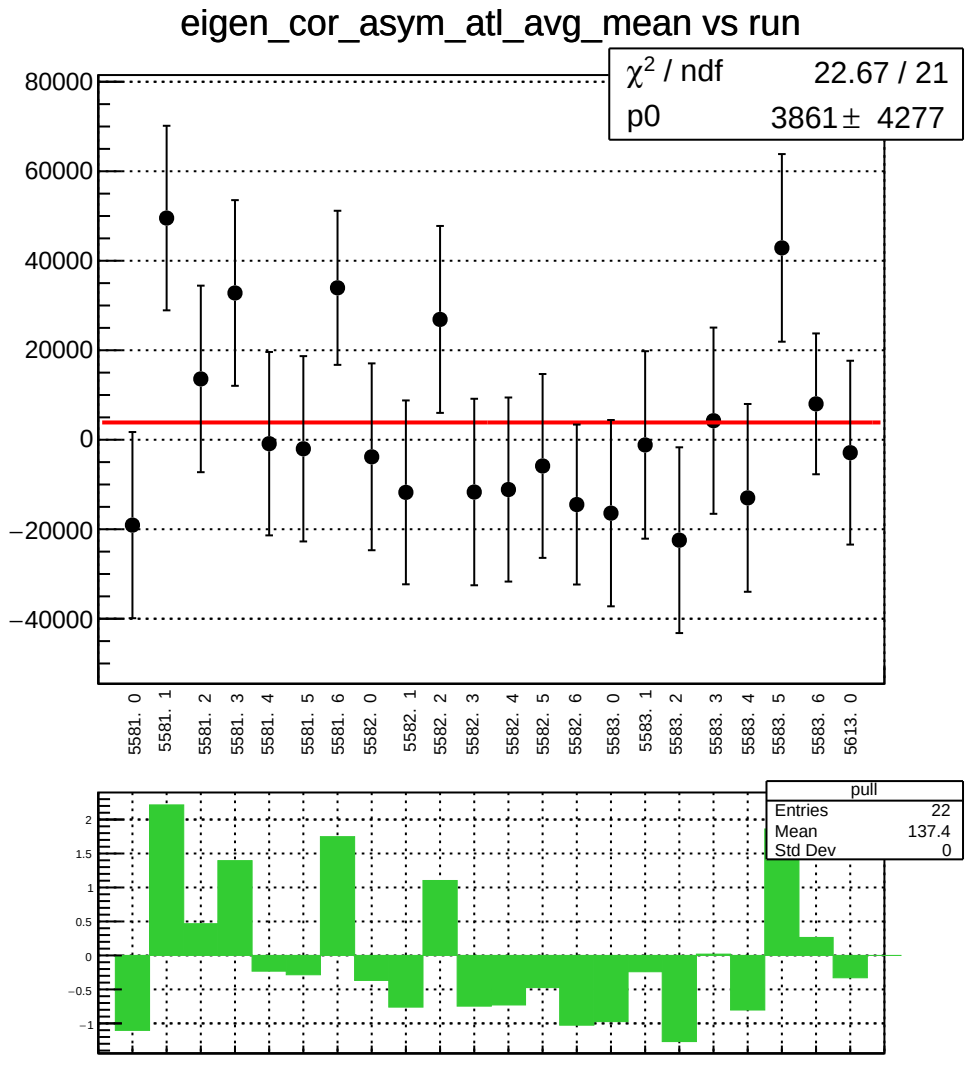

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 2.833e+05 / 32
p0 883.7 ± 1.455
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

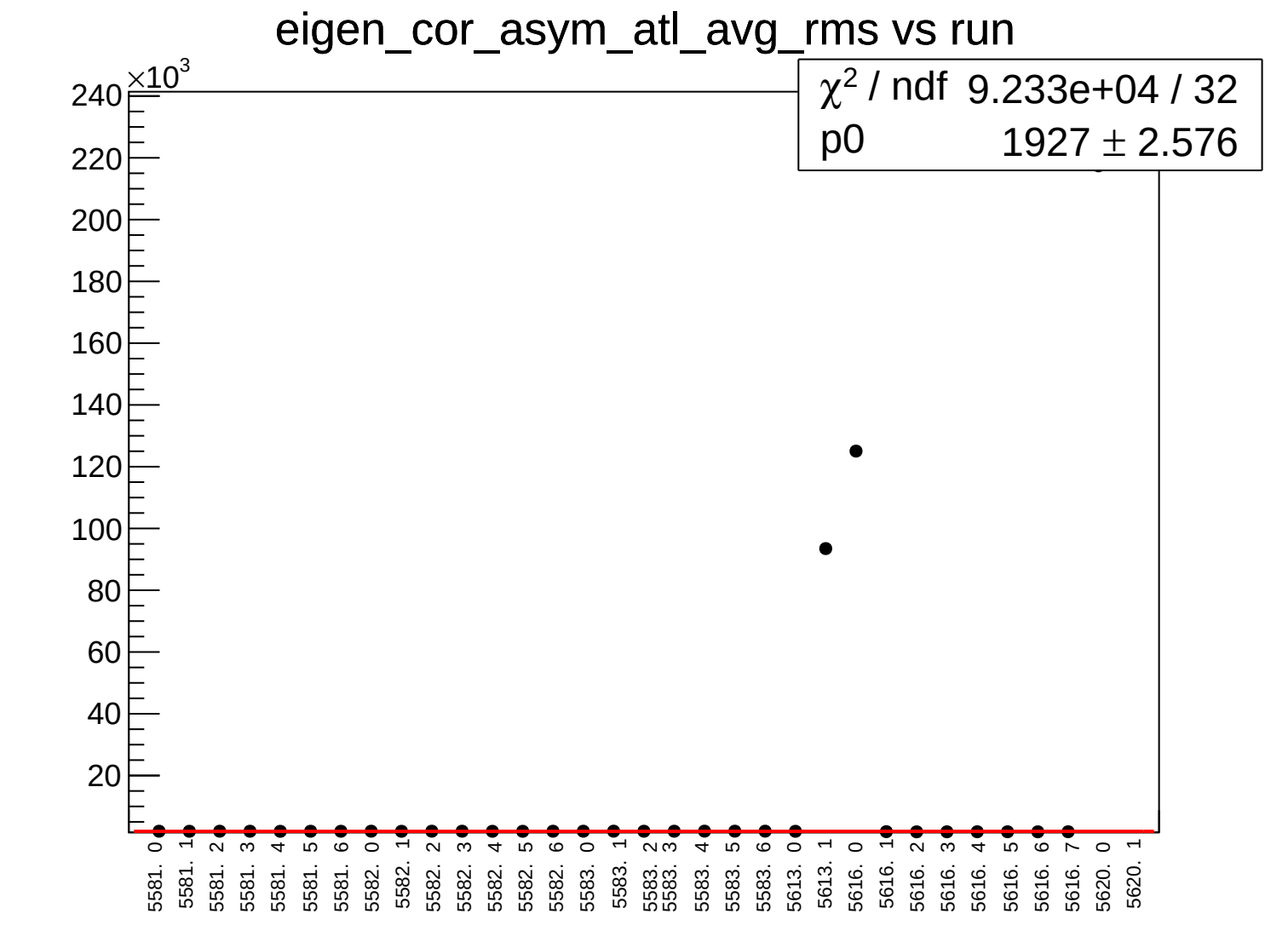

cor_asym_atl_avg_mean vs run
χ² / ndf 22.67 / 21
p0 3861 ± 4277
80000
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 137.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 22
Mean −0.01183
Std Dev 1.015
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

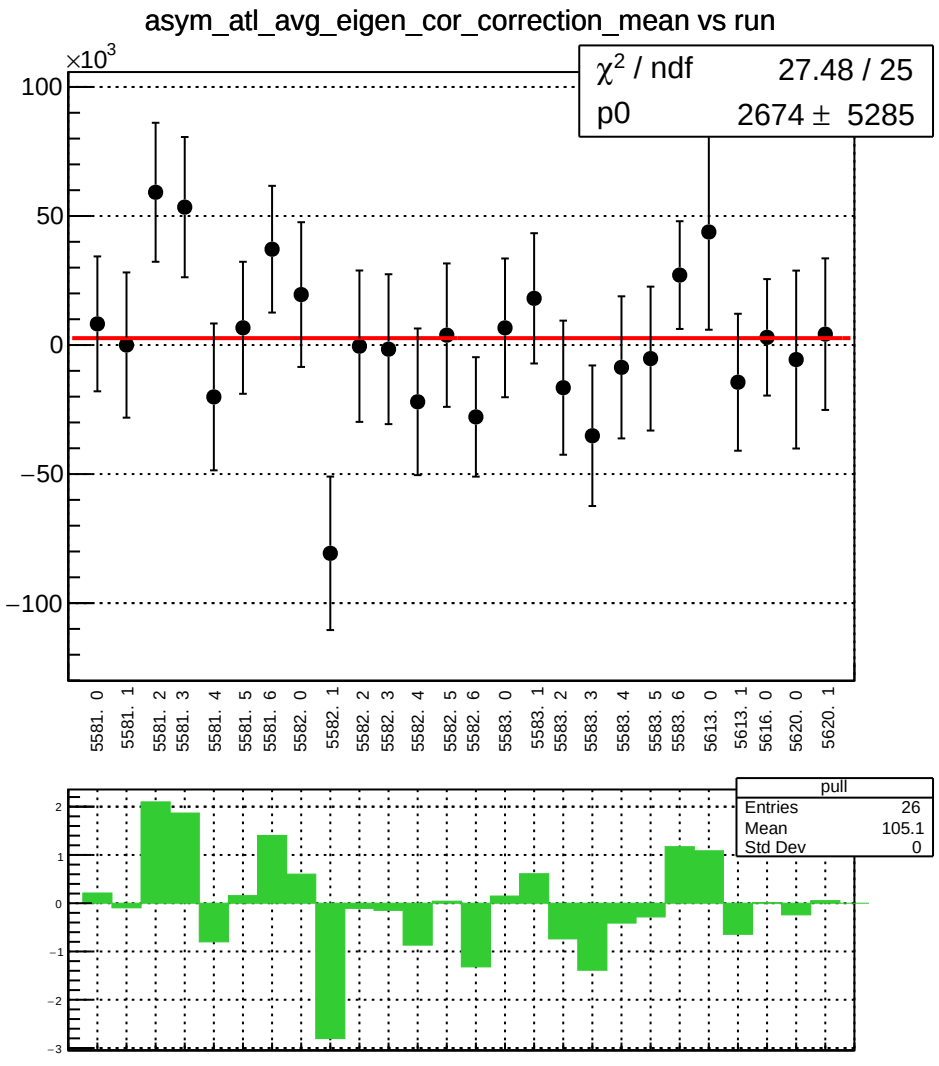

cor_asym_atl_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.233e+04 / 32
p0 1927 ± 2.576
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

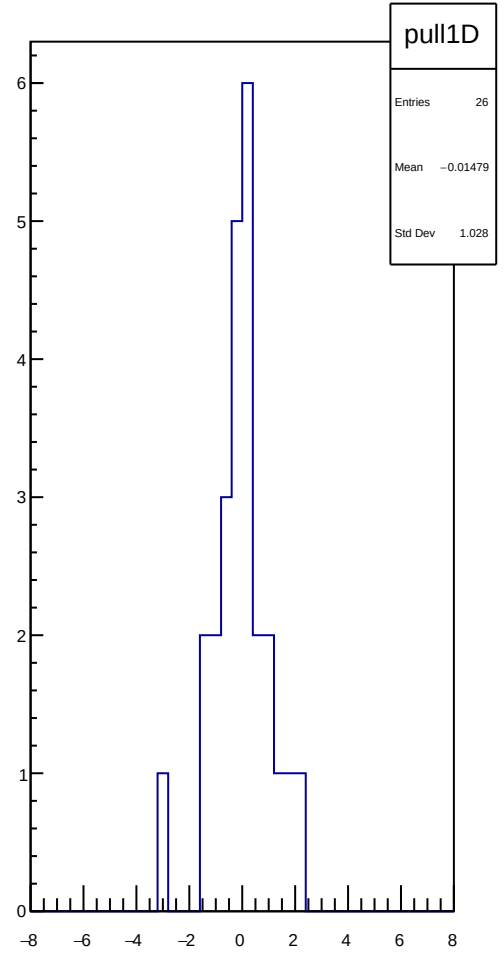

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 27.48 / 25
p0 2674 ± 5285
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 105.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 26
Mean −0.01479
Std Dev 1.028
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

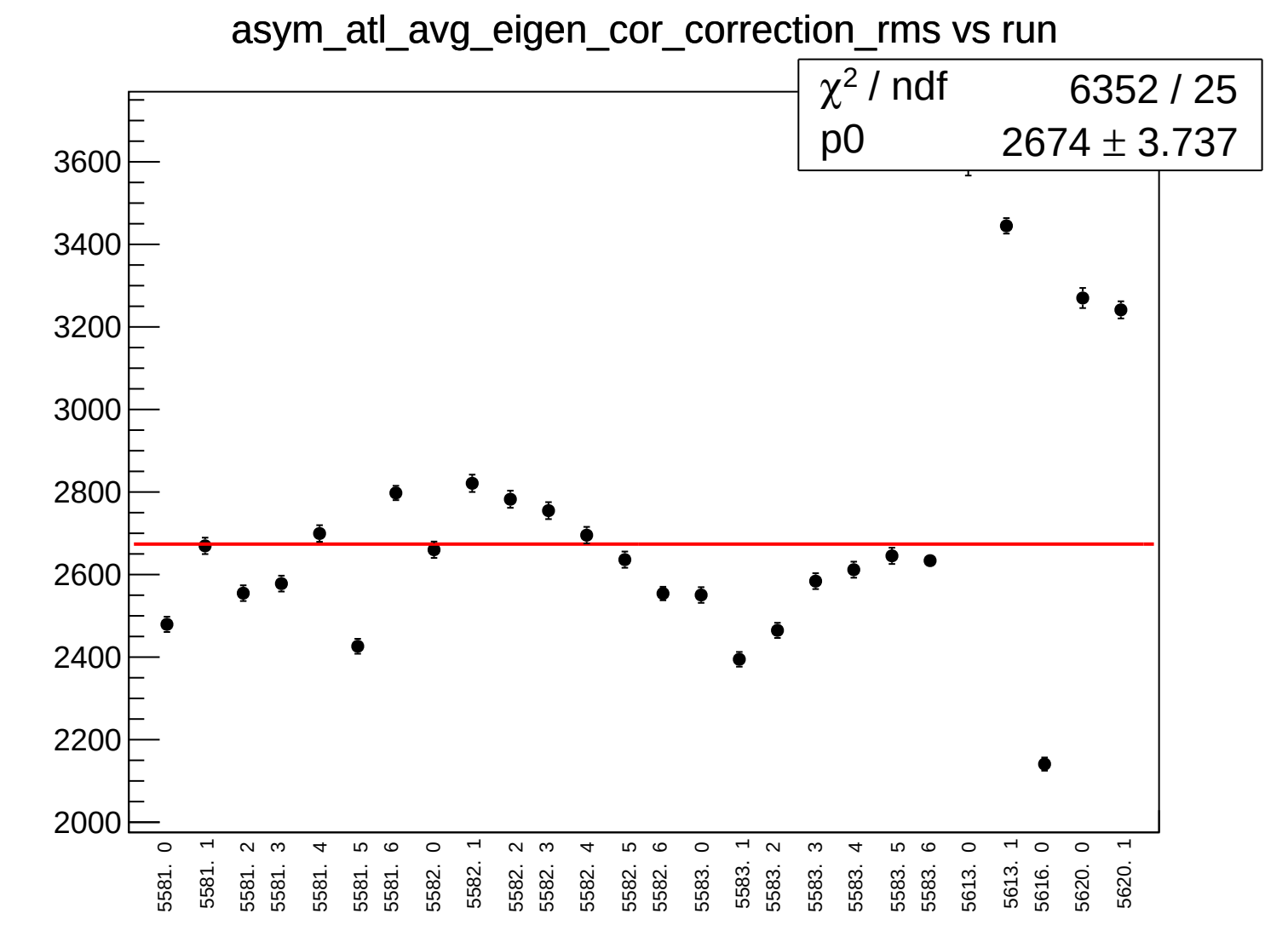

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 6352 / 25
p0 2674 ± 3.737
3600
3400
3200
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

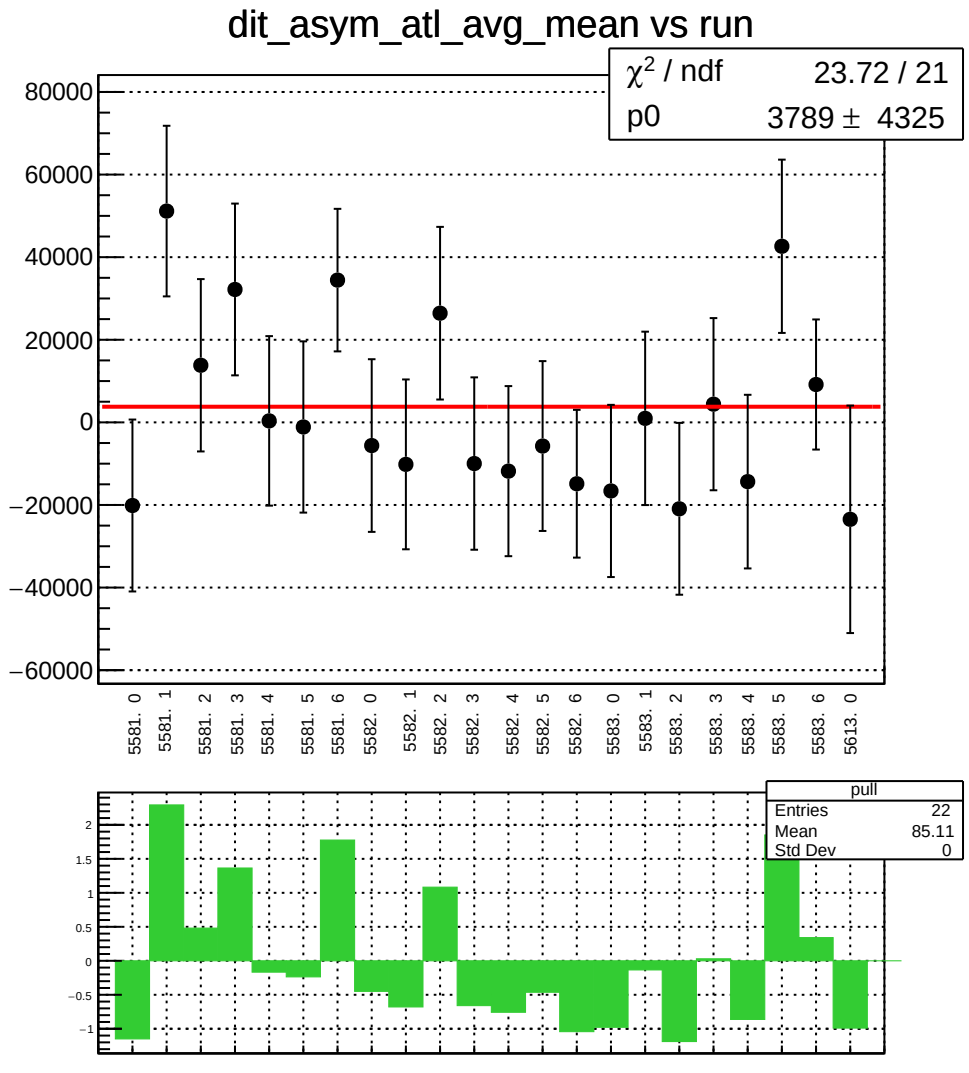

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 22.67 / 21
p0 3861 ± 4277
80000
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 137.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 22
Mean −0.01183
Std Dev 1.015
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

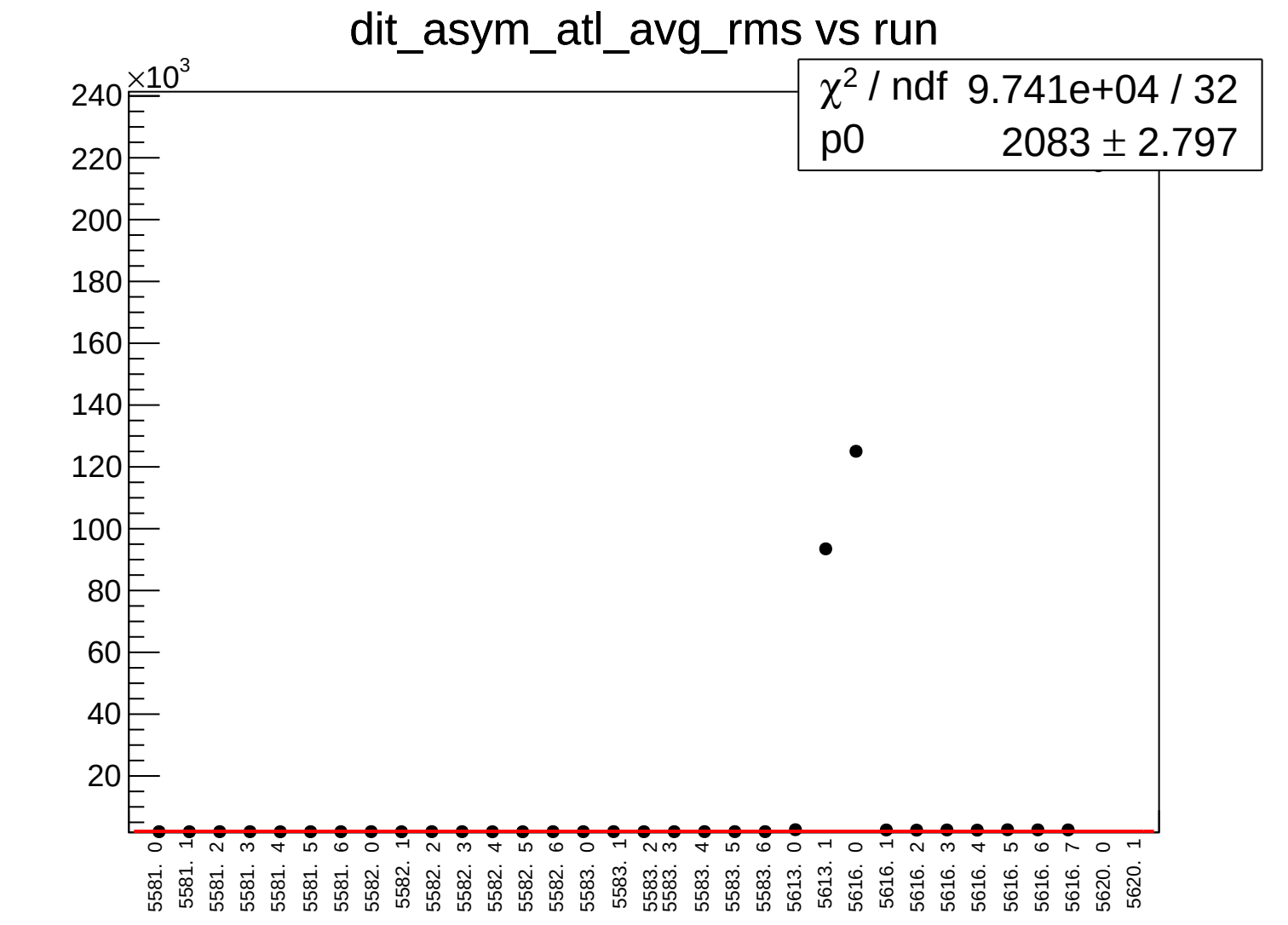

eigen_cor_asym_atl_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.233e+04 / 32
p0 1927 ± 2.576
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

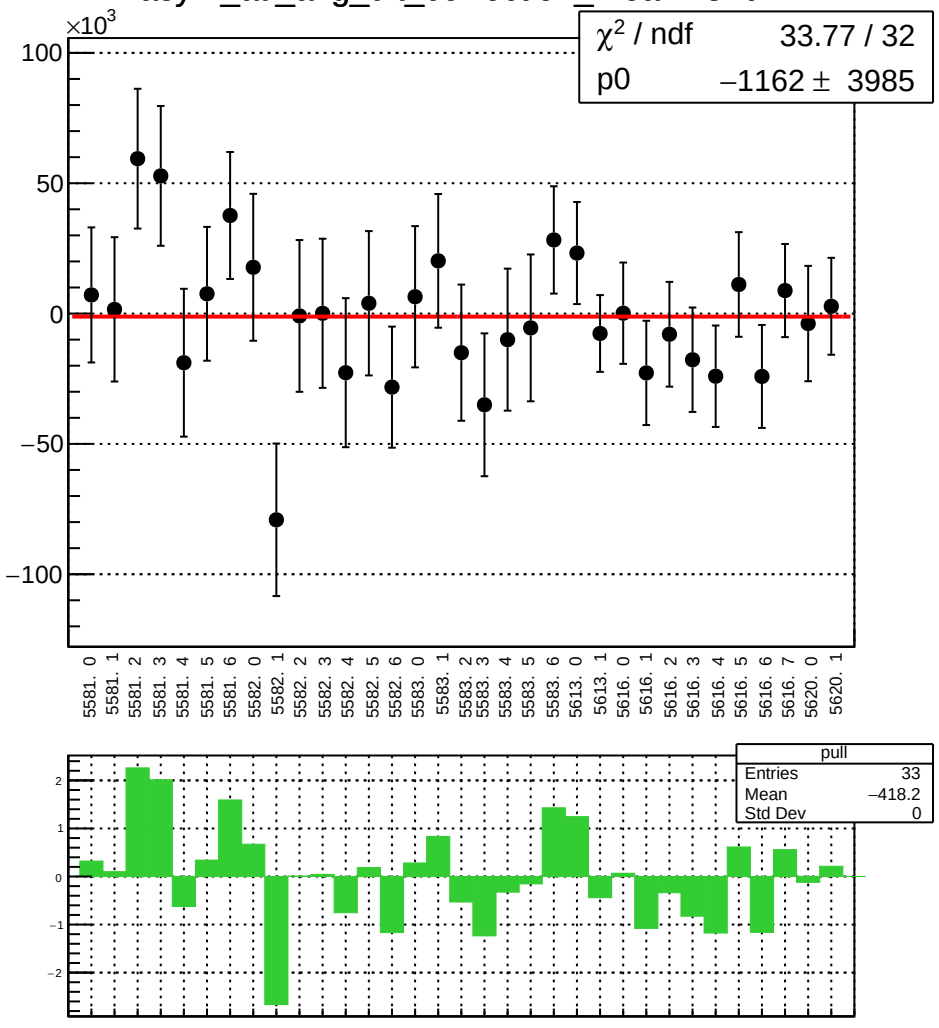

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 27.48 / 25
p0 2674 ± 5285
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 105.1
Std Dev 0
2
1
0
−1
−2
−3

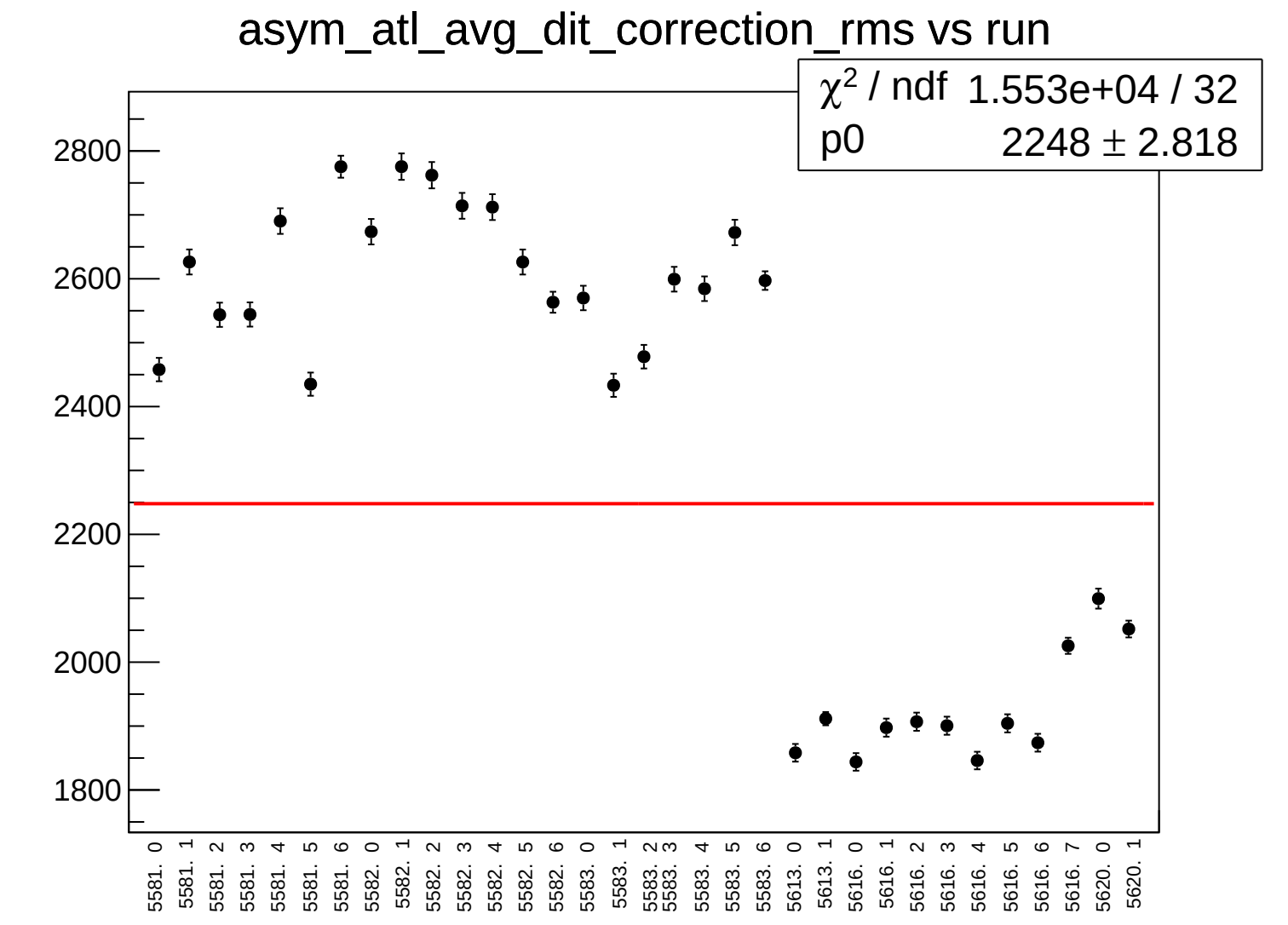

pull1D
Entries 26
Mean −0.01479
Std Dev 1.028
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

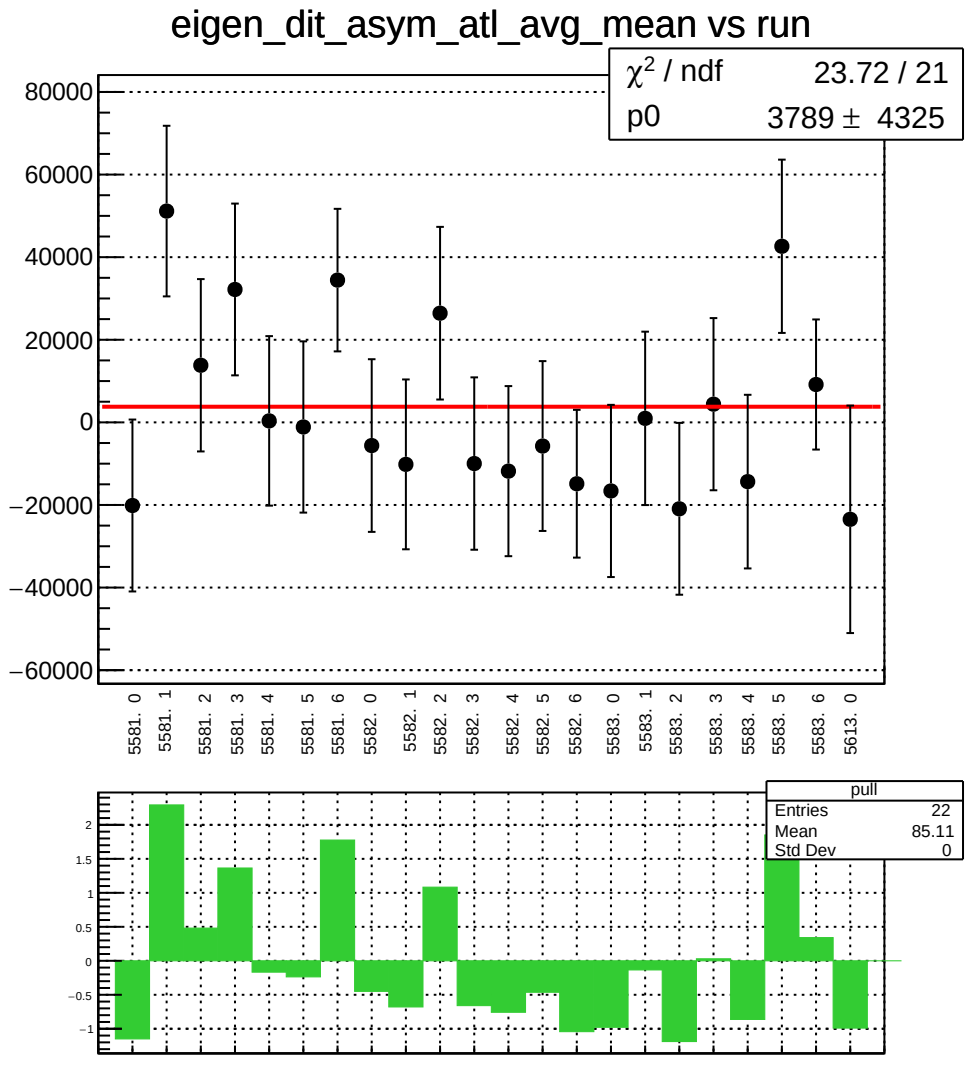

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 6352 / 25
p0 2674 ± 3.737
3600
3400
3200
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

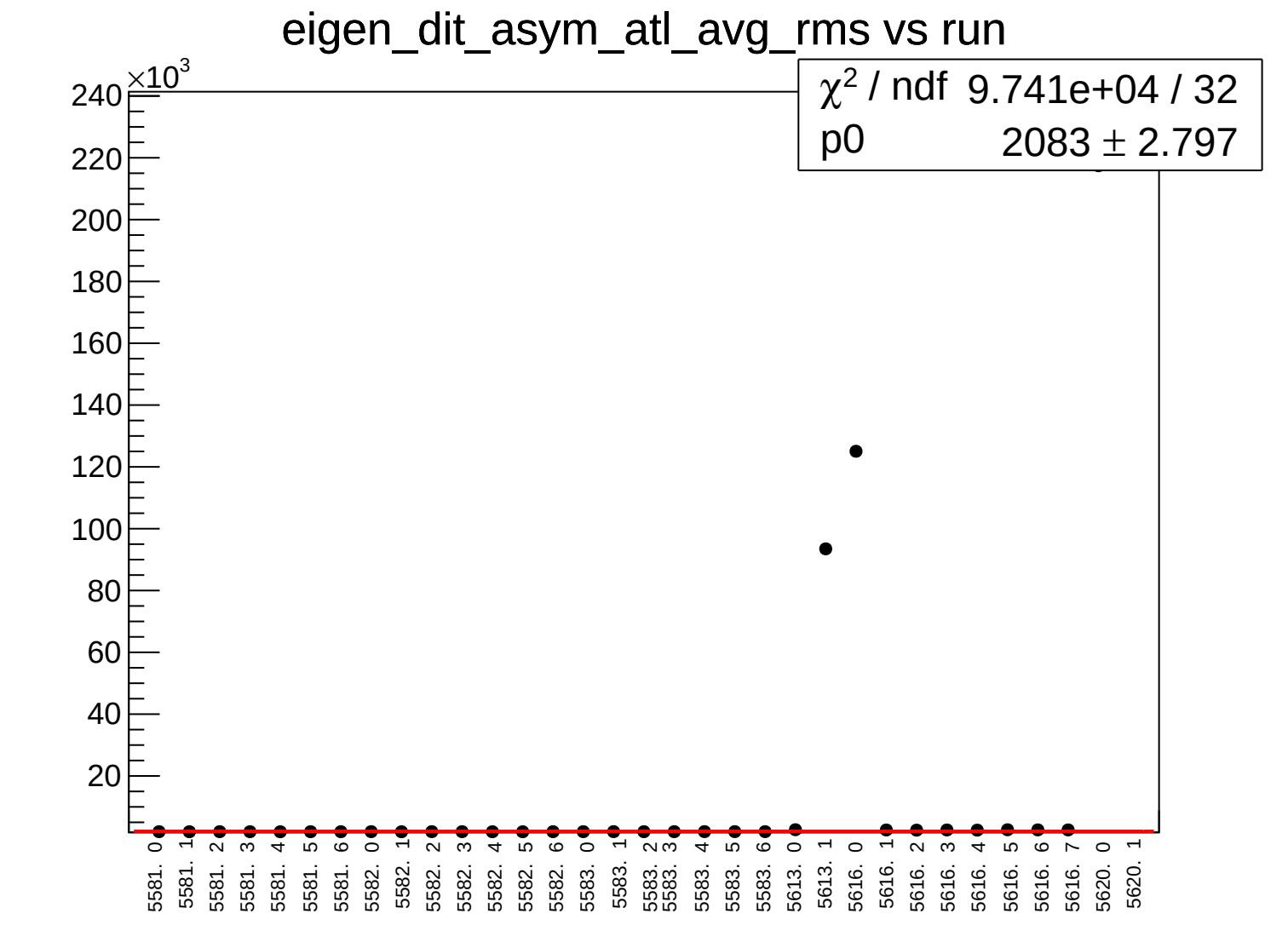

dit_asym_atl_avg_mean vs run
χ² / ndf 23.72 / 21
p0 3789 ± 4325
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 85.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 22
Mean −0.02429
Std Dev 1.038
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

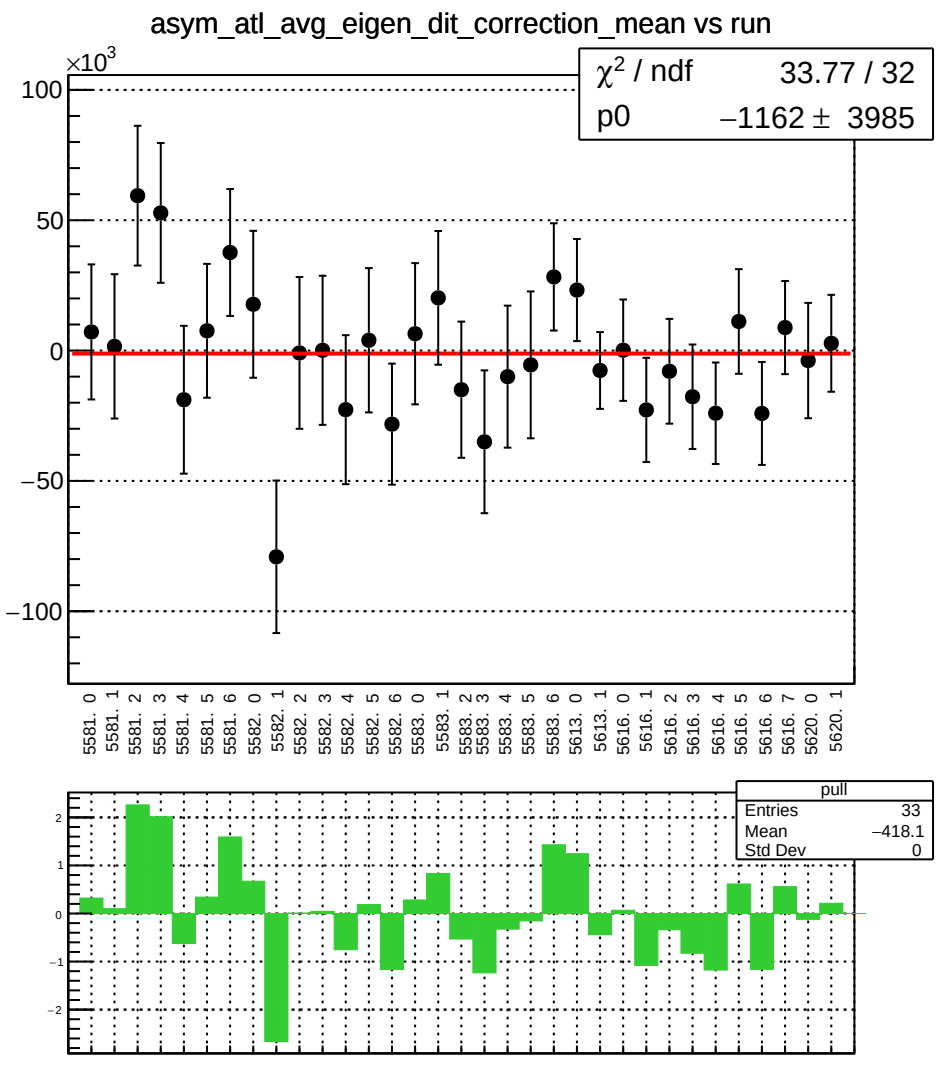

dit_asym_atl_avg_rms vs run
χ^2 / ndf 9.741e+04 / 32
p0 2083 ± 2.797
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

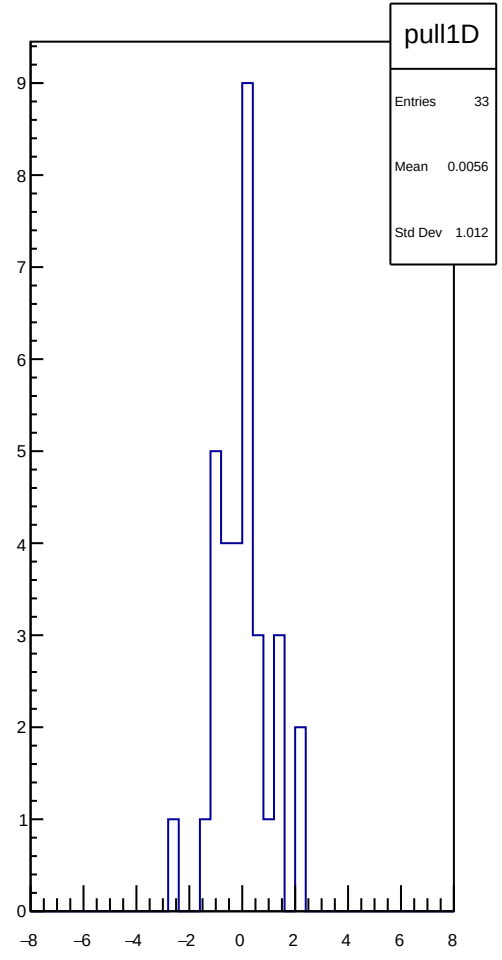

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 33.77 / 32
p0 −1162 ± 3985
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −418.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.0056
Std Dev 1.012
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

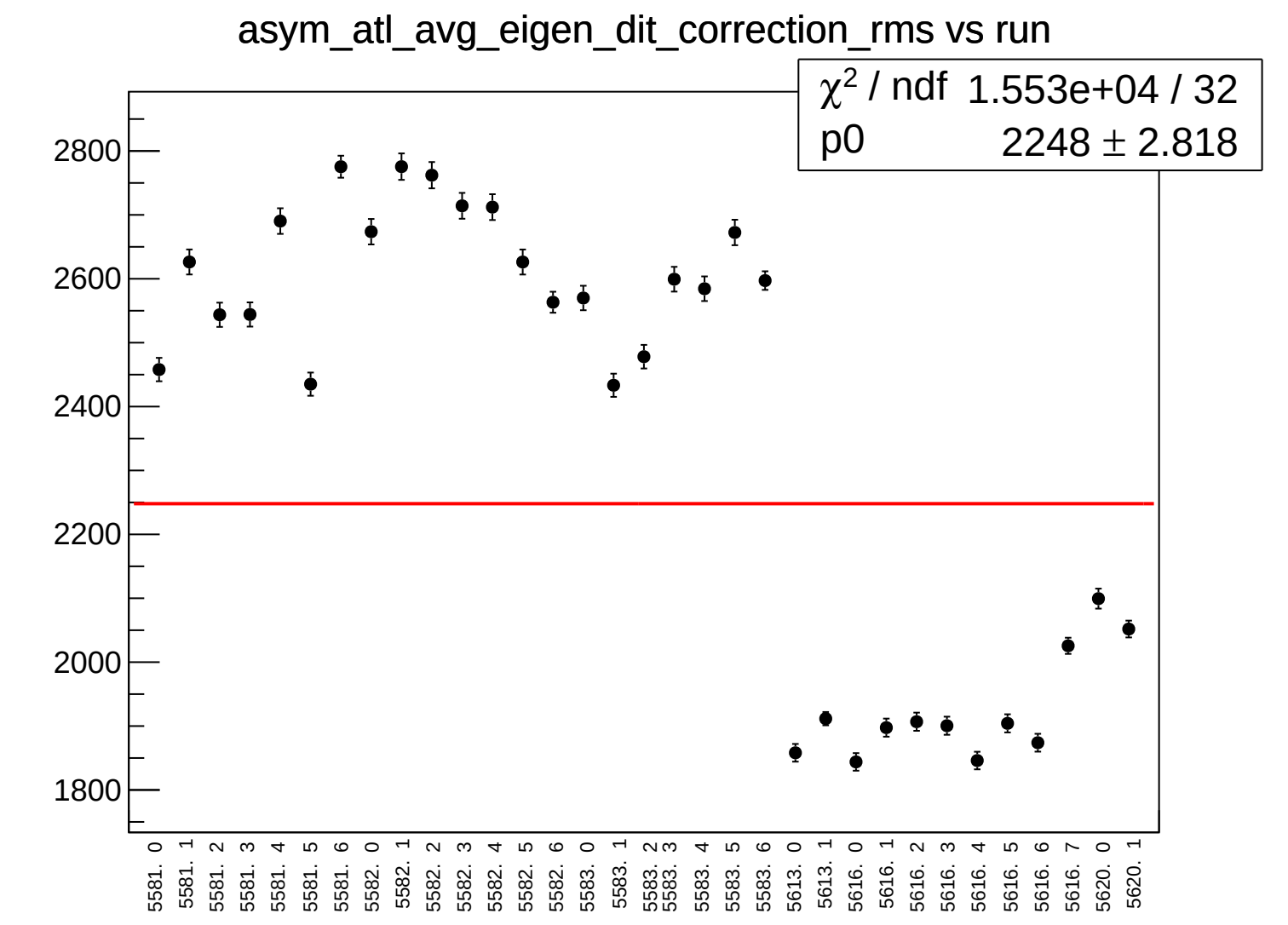

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 1.553e+04 / 32
p0 2248 ± 2.818
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

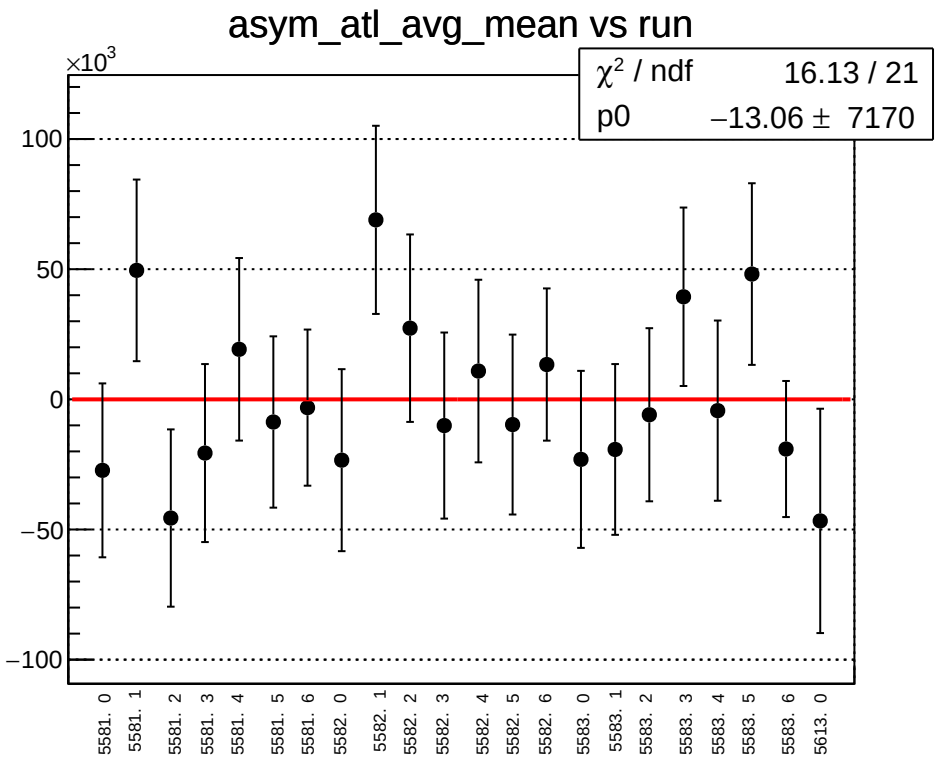

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 23.72 / 21
p0 3789 ± 4325
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 85.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 22
Mean −0.02429
Std Dev 1.038
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

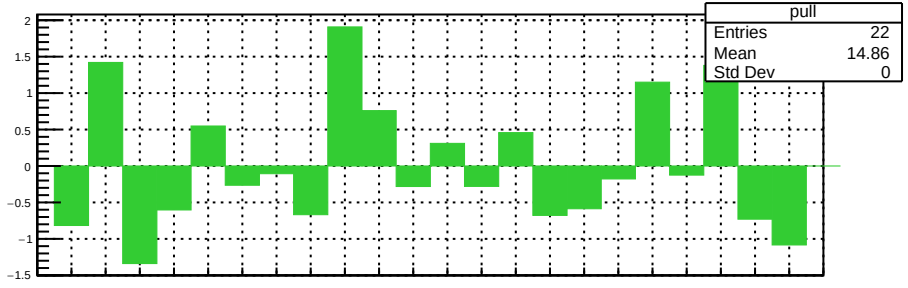

eigen_dit_asym_atl_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.741e+04 / 32
p0 2083 ± 2.797
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

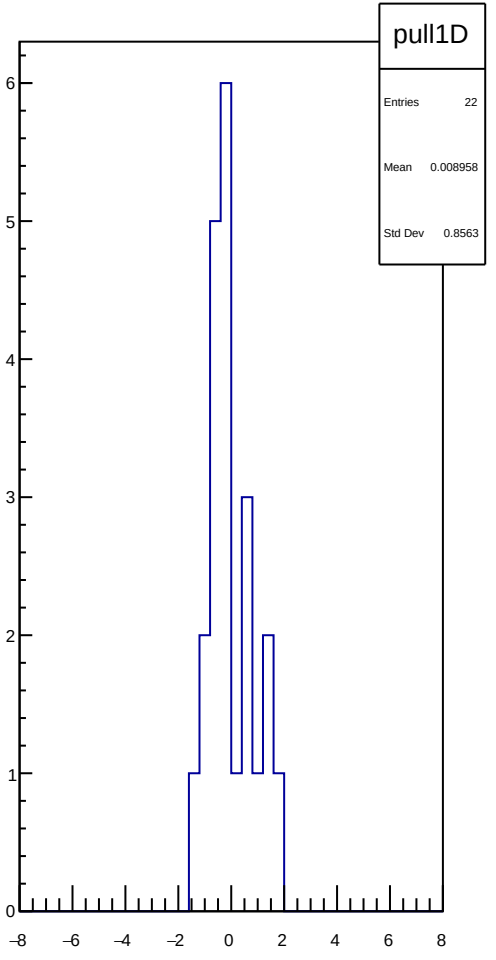

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 33.77 / 32
p0 −1162 ± 3985
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −418.1
Std Dev 0
2
1
0
−1
−2

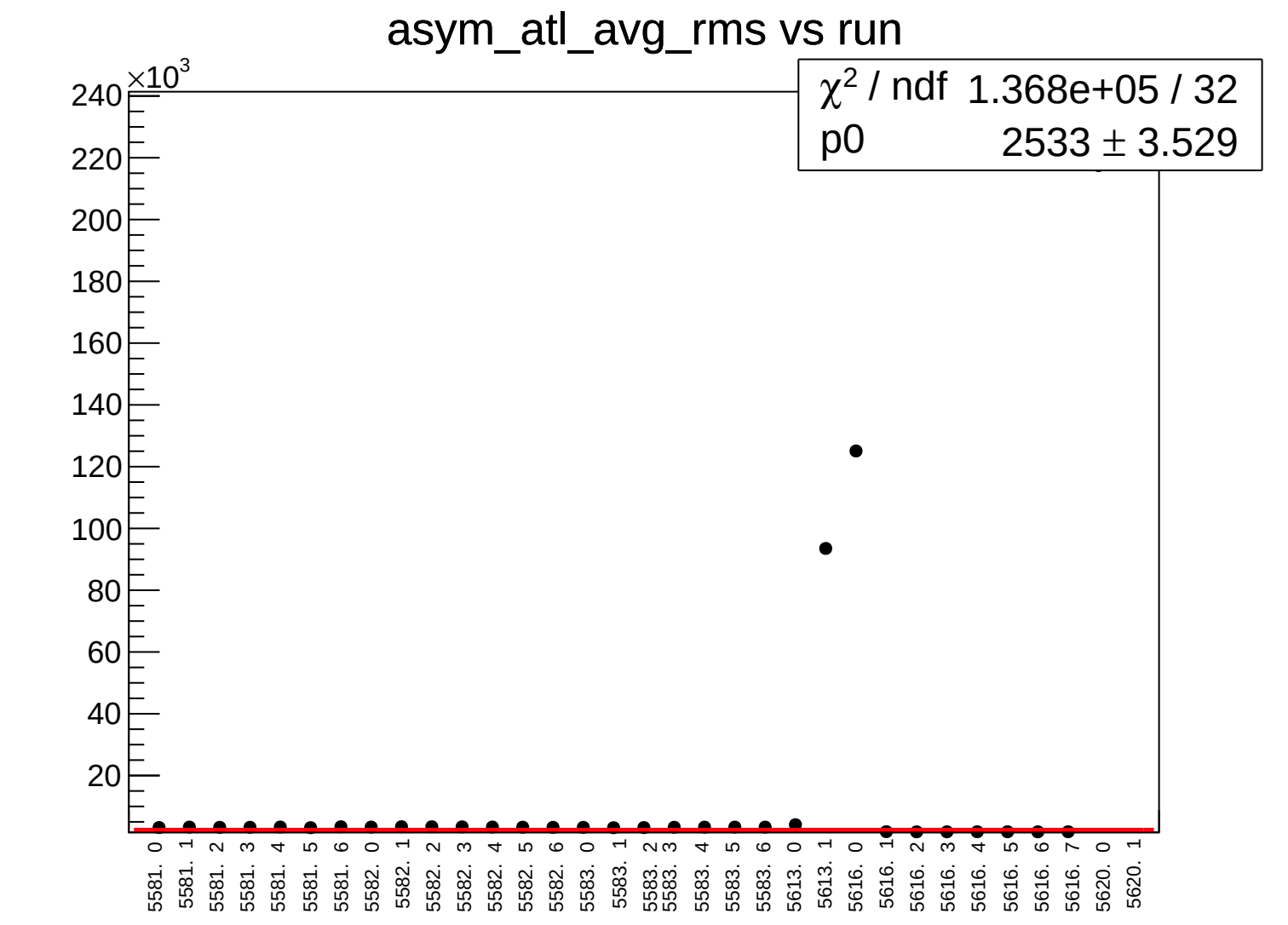

pull1D
Entries 33
Mean 0.0056
Std Dev 1.012
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

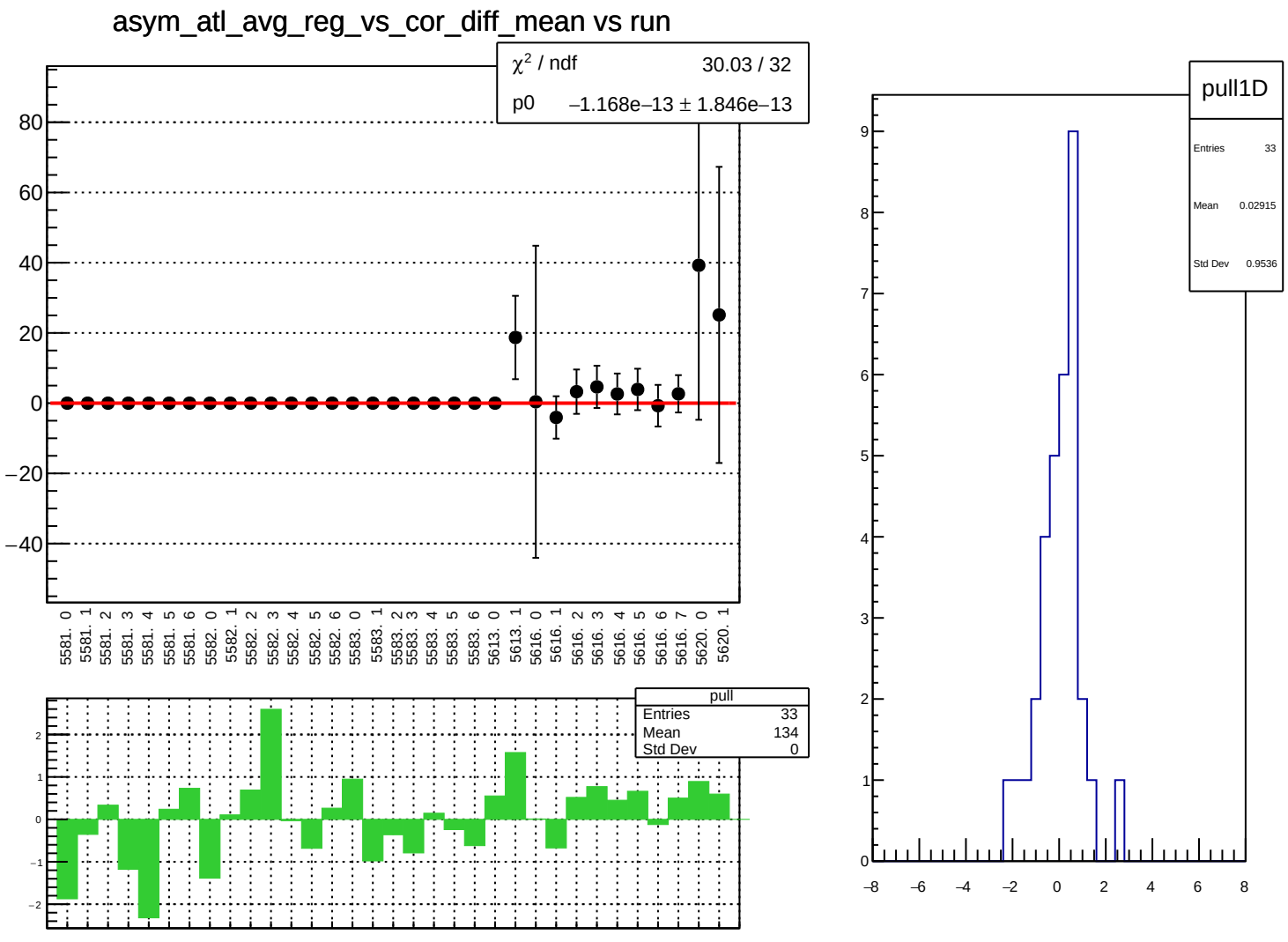

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.553e+04 / 32
p0 2248 ± 2.818
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

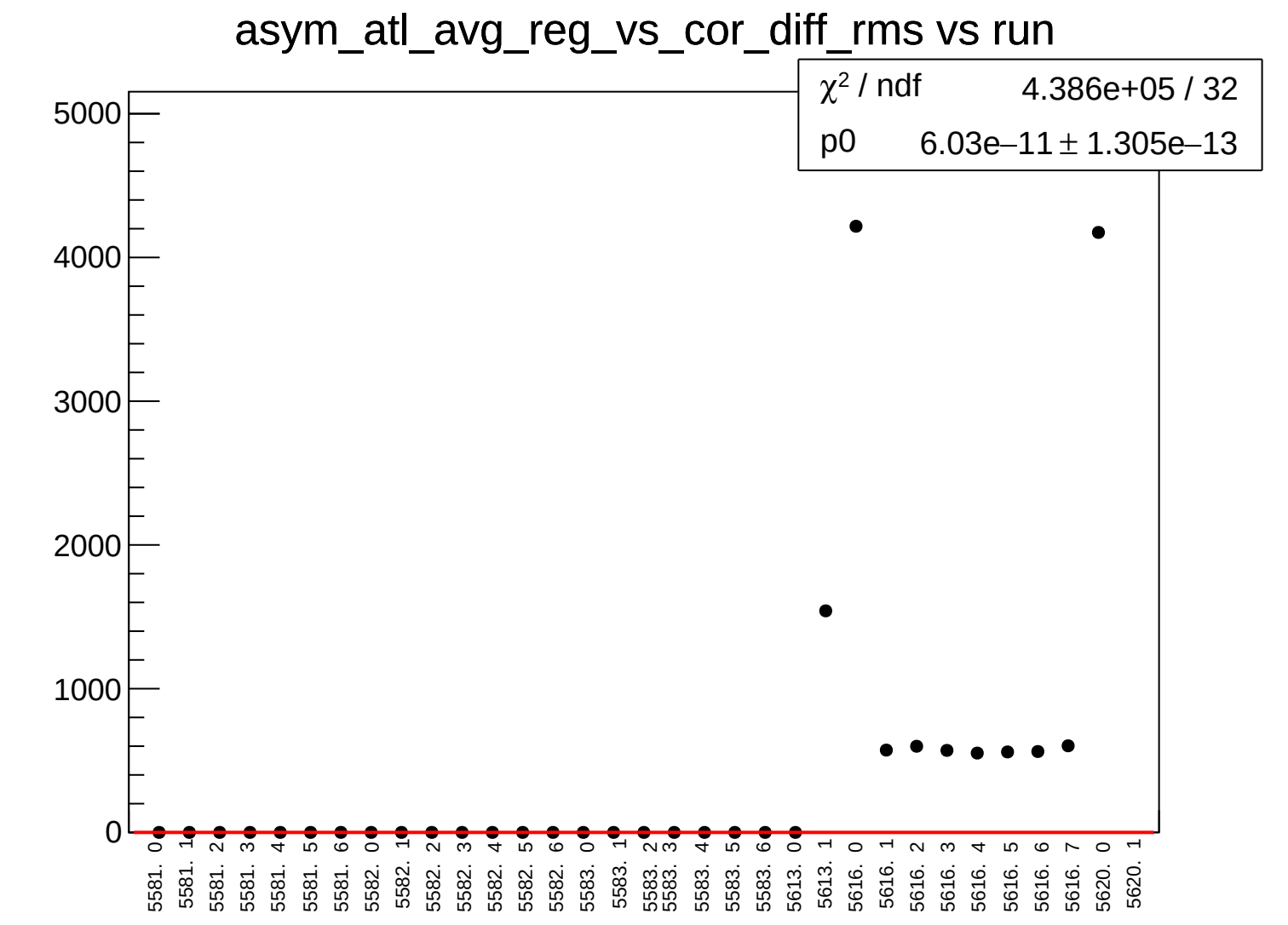

asym_atl_avg_mean vs run
×10^3
χ² / ndf 16.13 / 21
p0 −13.06 ± 7170
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

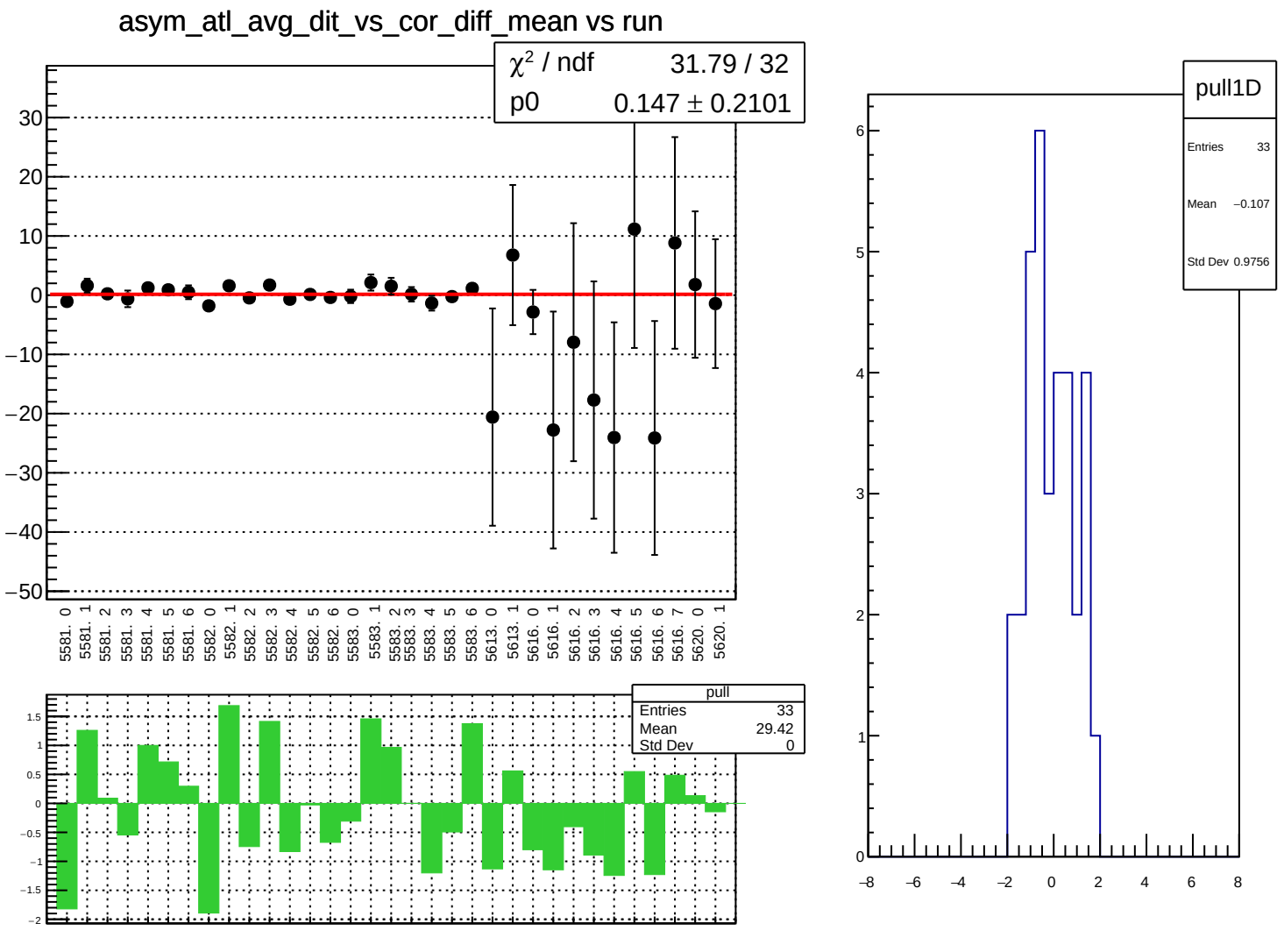

pull
Entries 22
Mean 14.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

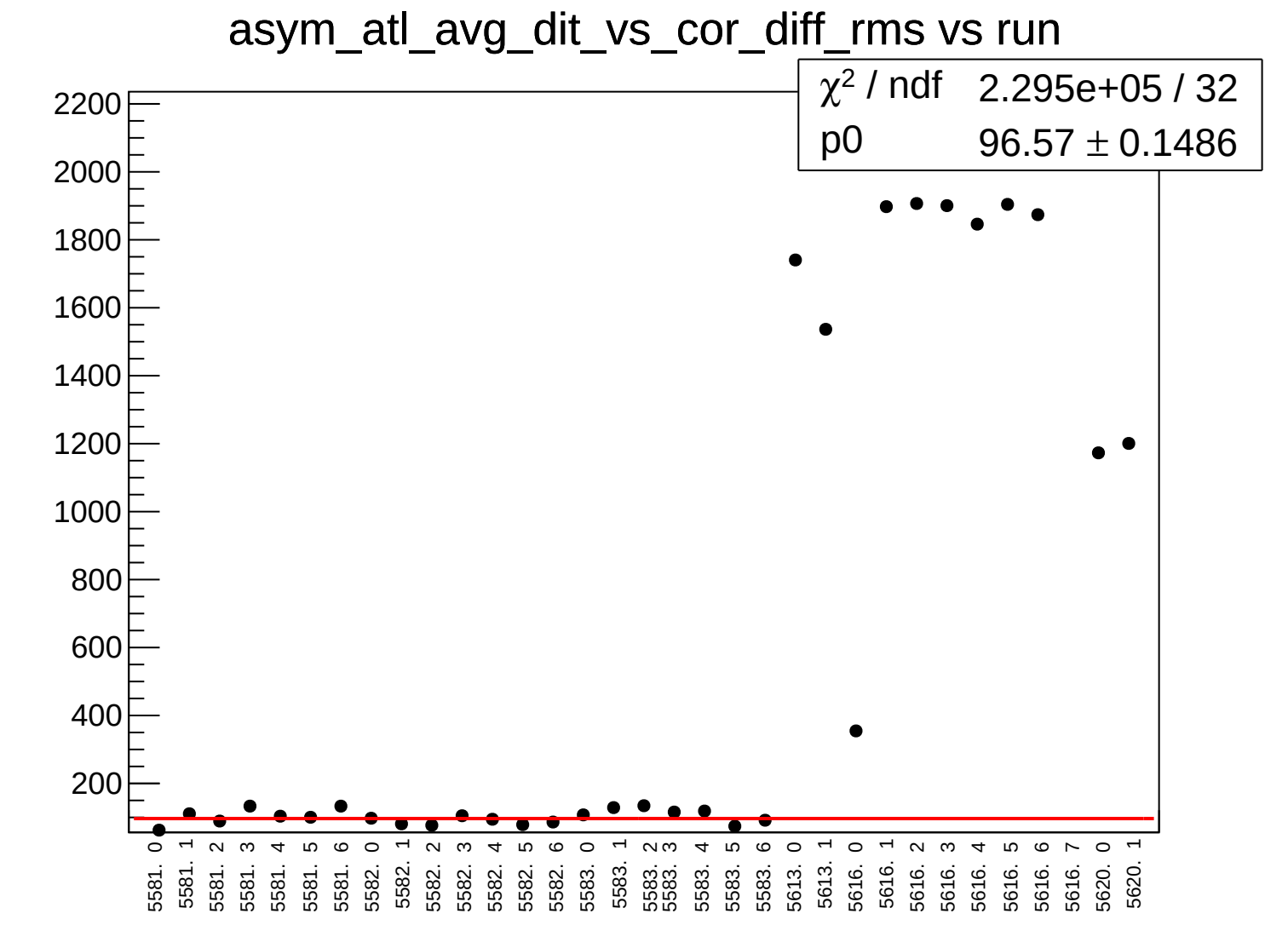

pull1D
Entries 22
Mean 0.008958
Std Dev 0.8563
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

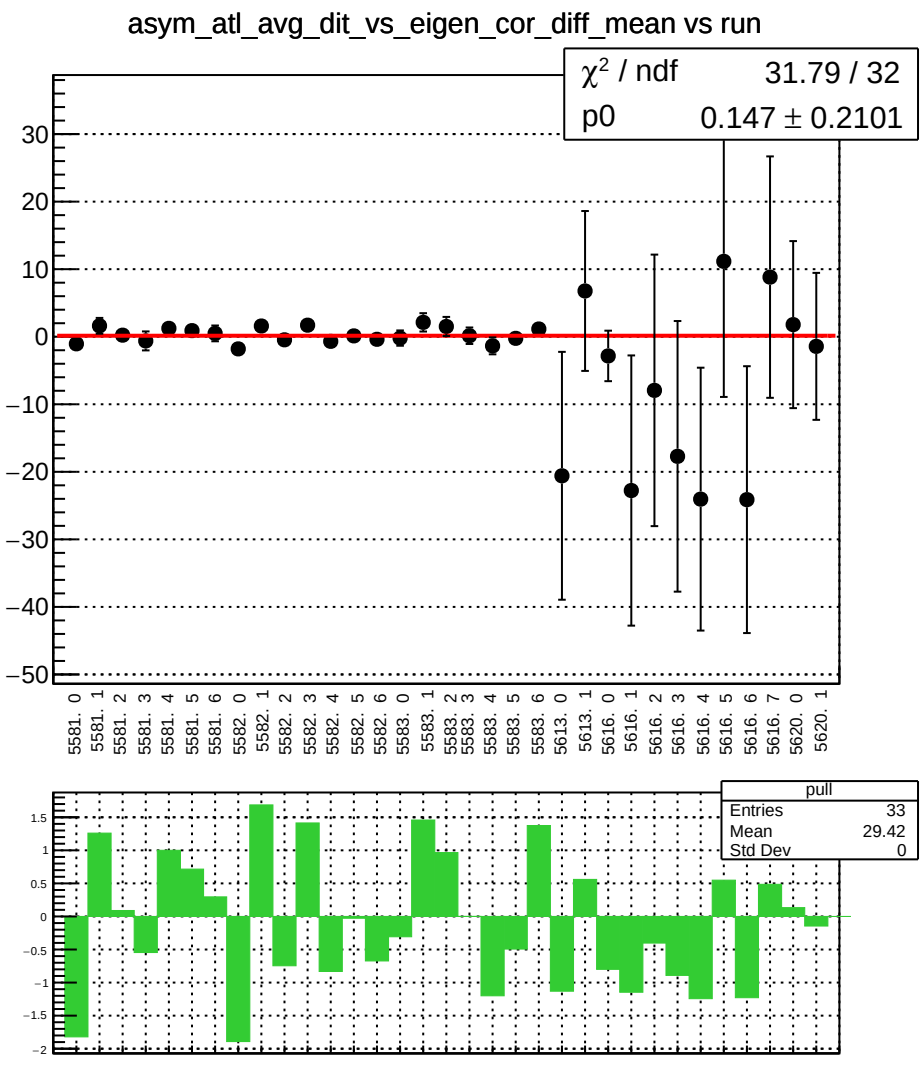

asym_atl_avg_rms vs run
χ^2 / ndf 1.368e+05 / 32
p0 2533 ± 3.529
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

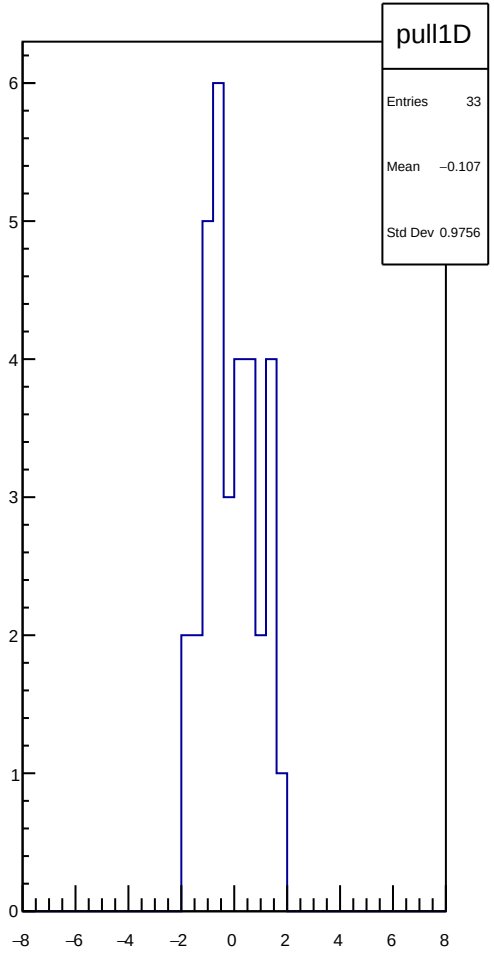

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 30.03 / 32
p0 −1.168e−13 ± 1.846e−13
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 134
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.02915
Std Dev 0.9536
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

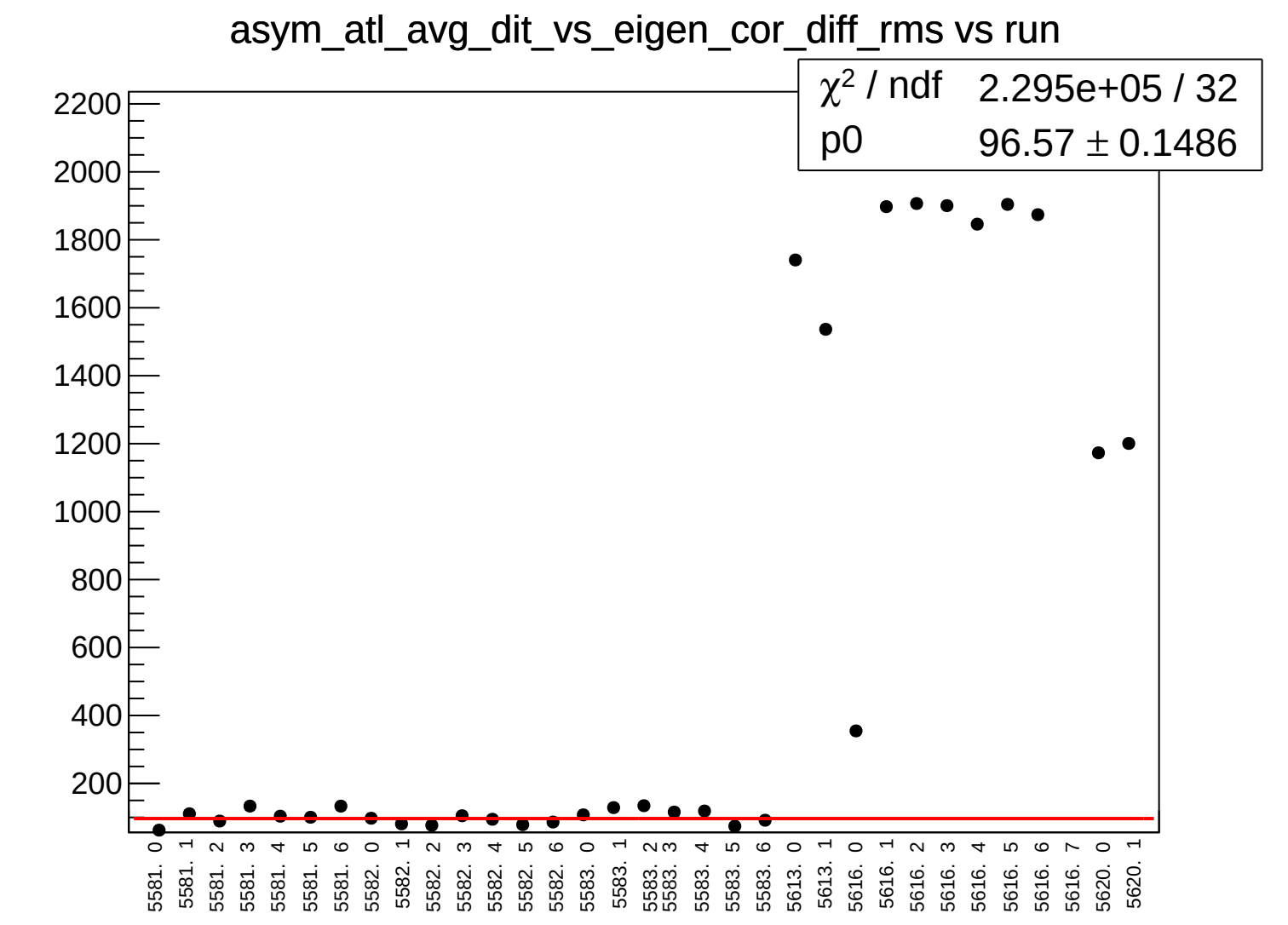

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.386e+05 / 32
p0 6.03e−11 ± 1.305e−13
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

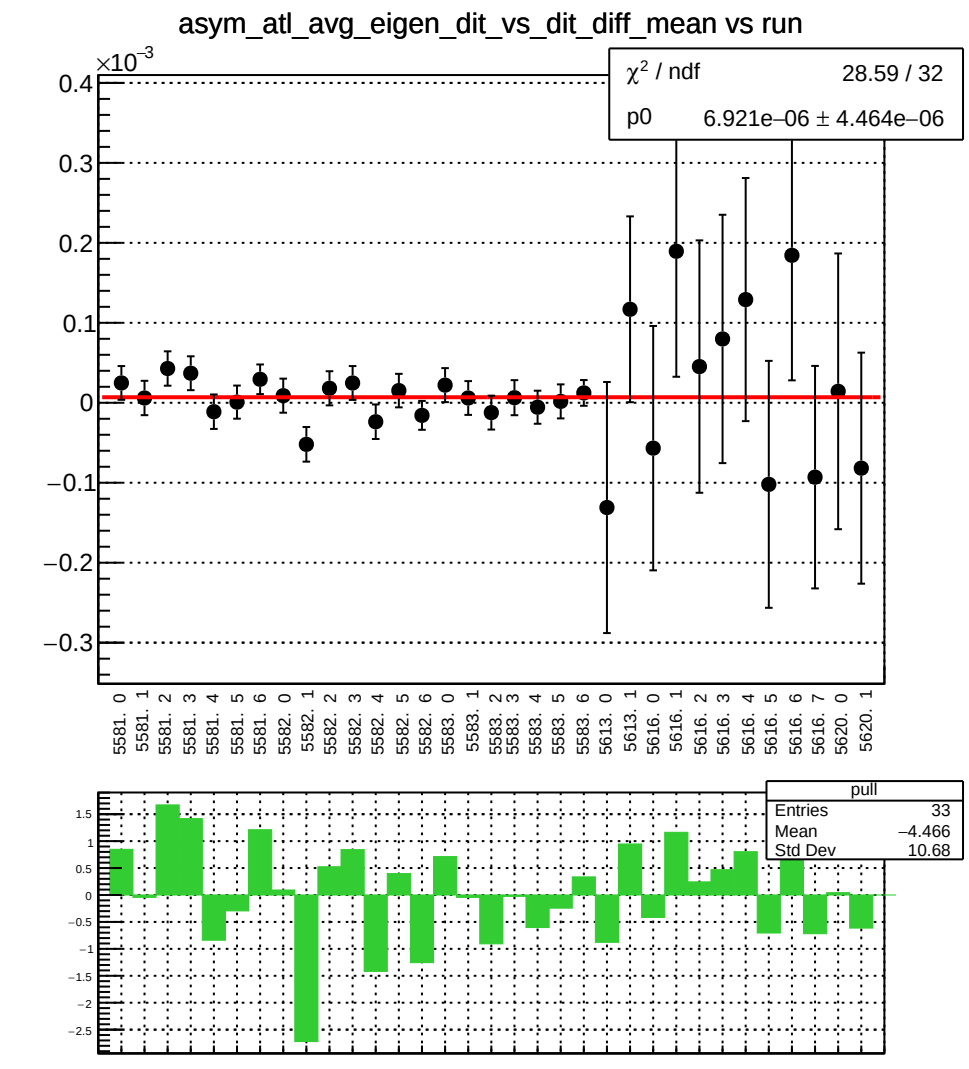

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 31.79 / 32
p0 0.147 ± 0.2101
30
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.107
Std Dev 0.9756
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

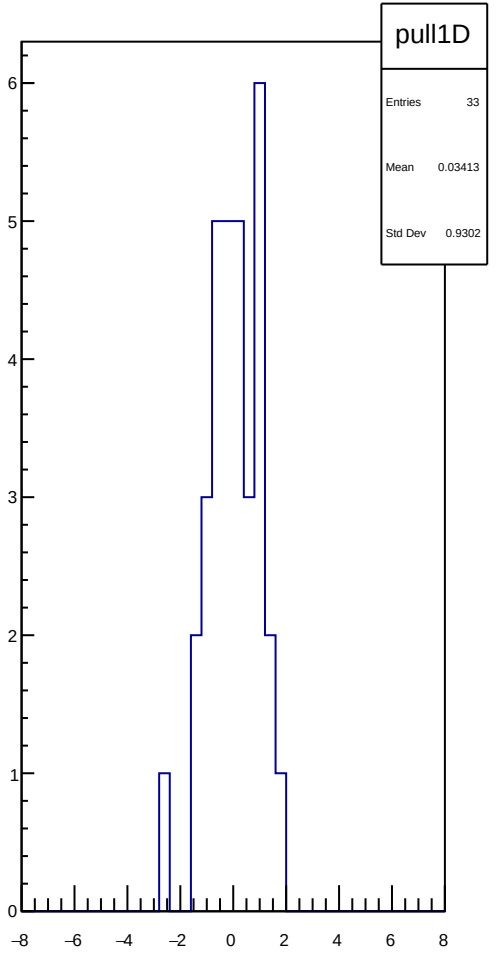

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.295e+05 / 32
p0 96.57 ± 0.1486
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

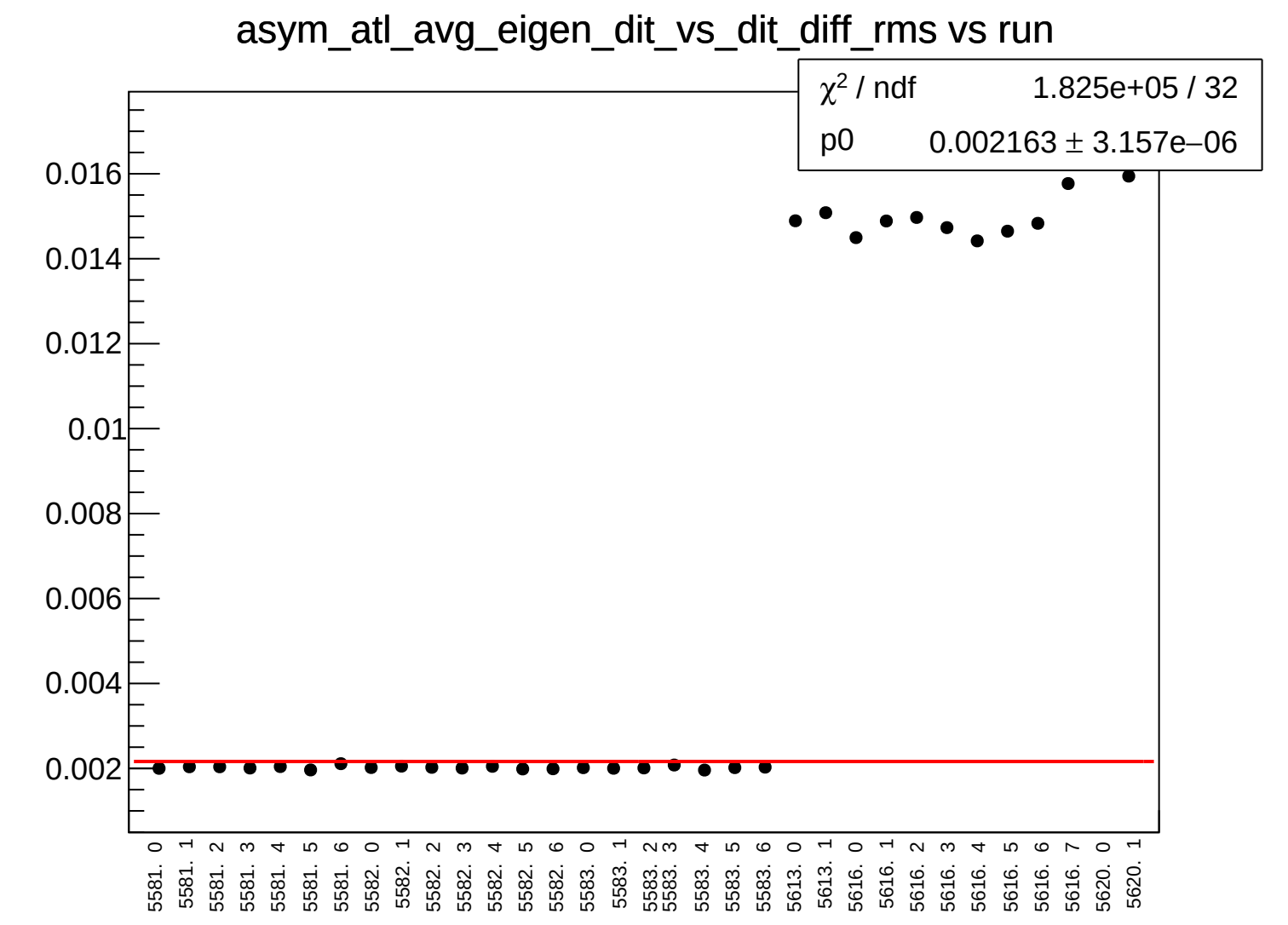

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.79 / 32
p0 0.147 ± 0.2101
pull
Entries 33
Mean 29.42
Std Dev 0

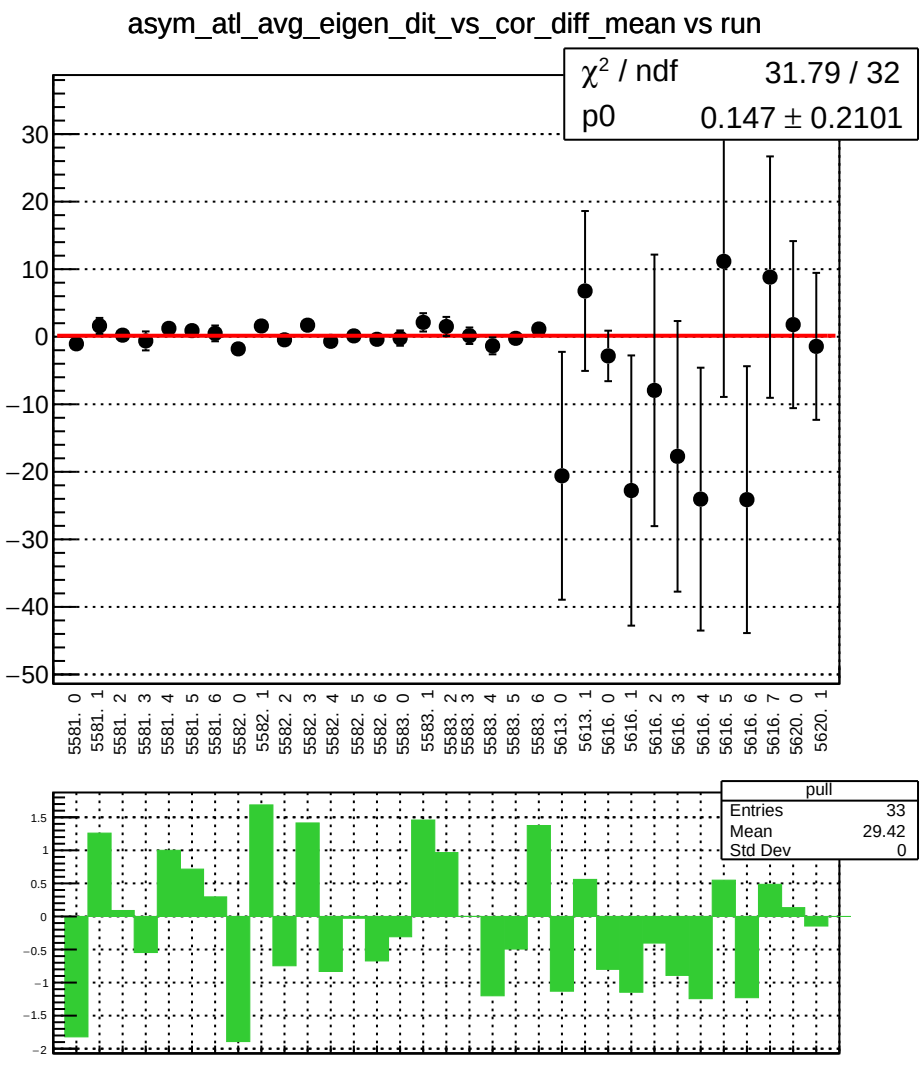

pull1D
Entries 33
Mean −0.107
Std Dev 0.9756

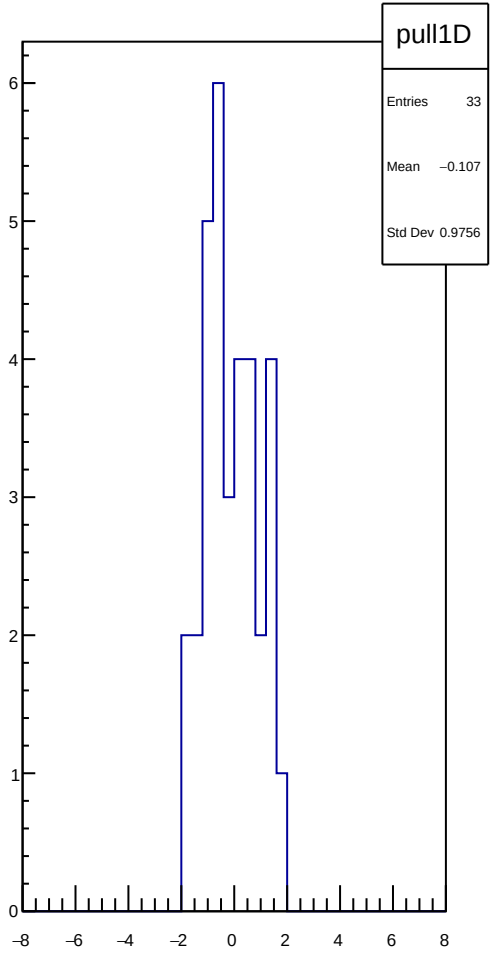

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.295e+05 / 32
p0 96.57 ± 0.1486
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

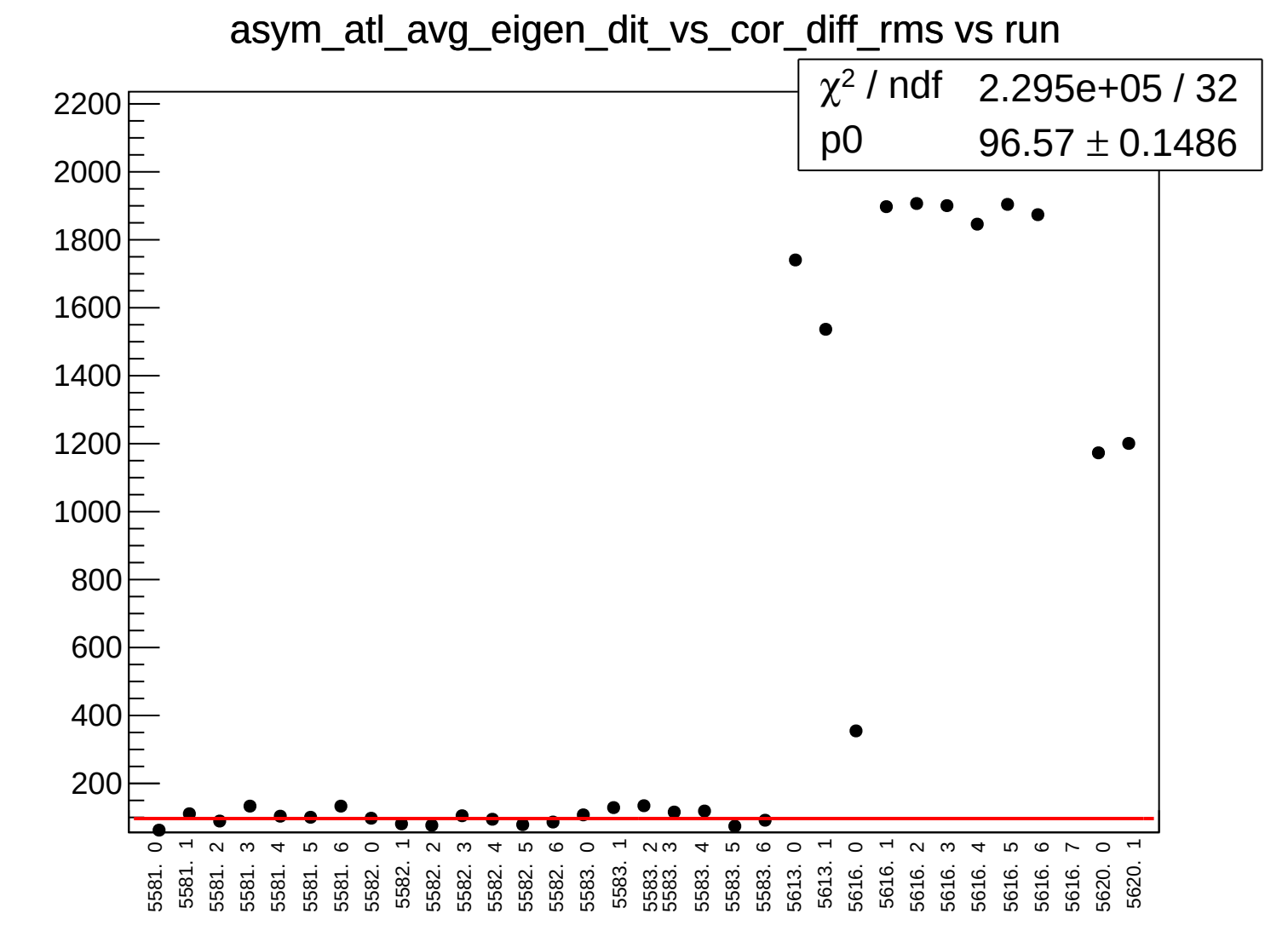

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.59 / 32
p0 6.921e−06 ± 4.464e−06
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −4.466
Std Dev 10.68
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

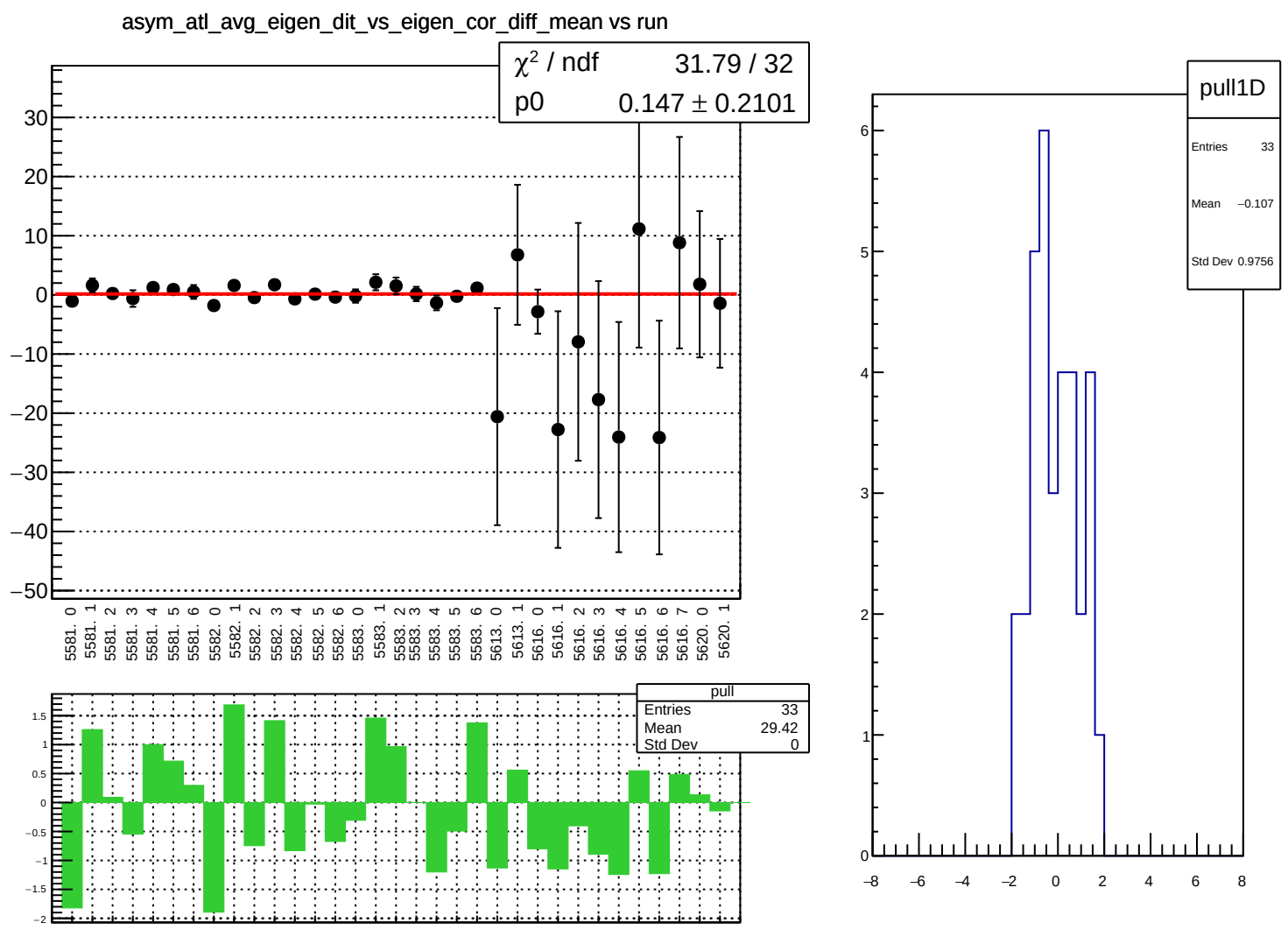

pull1D
Entries 33
Mean 0.03413
Std Dev 0.9302
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

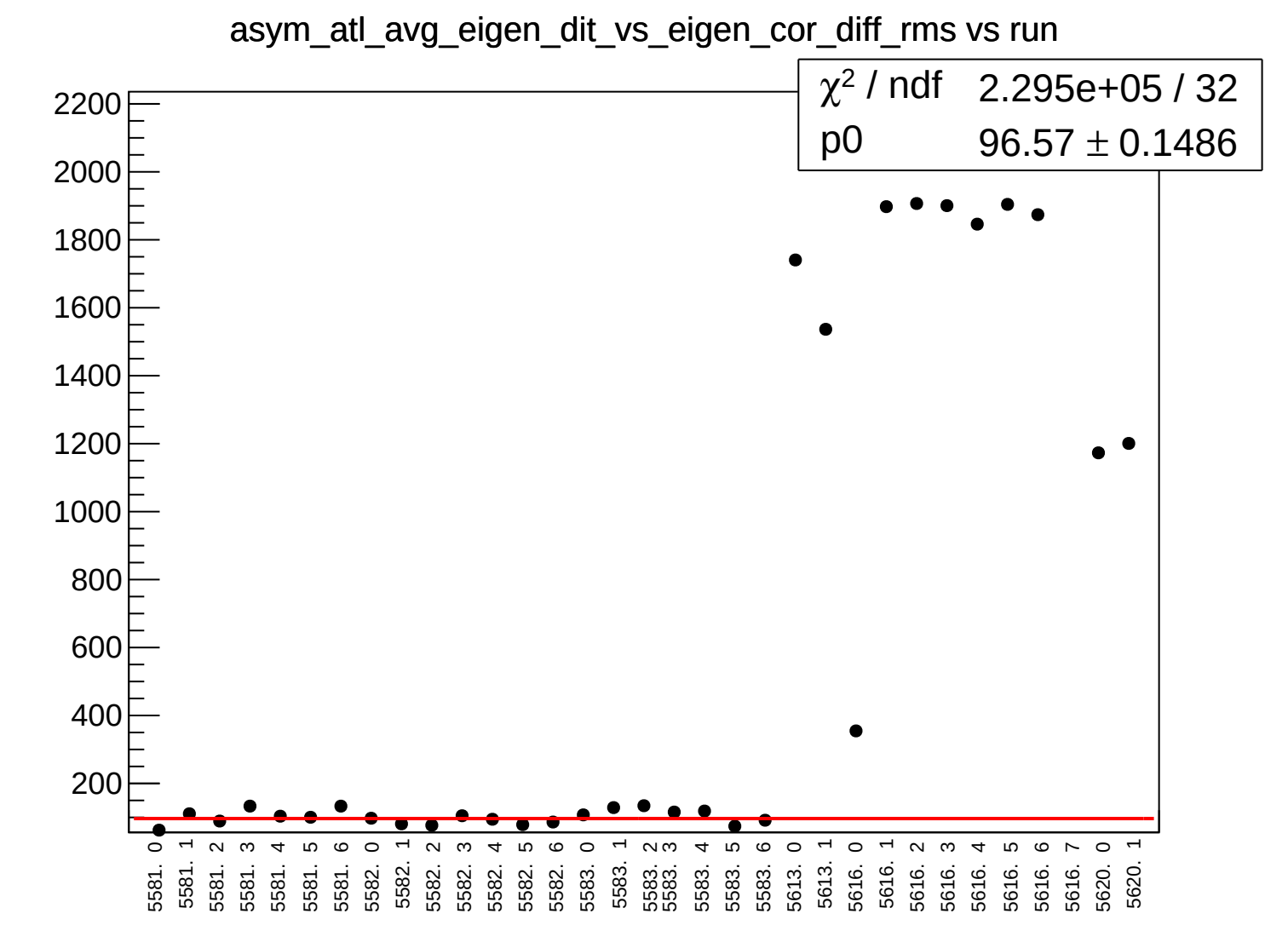

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.825e+05 / 32
p0 0.002163 ± 3.157e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

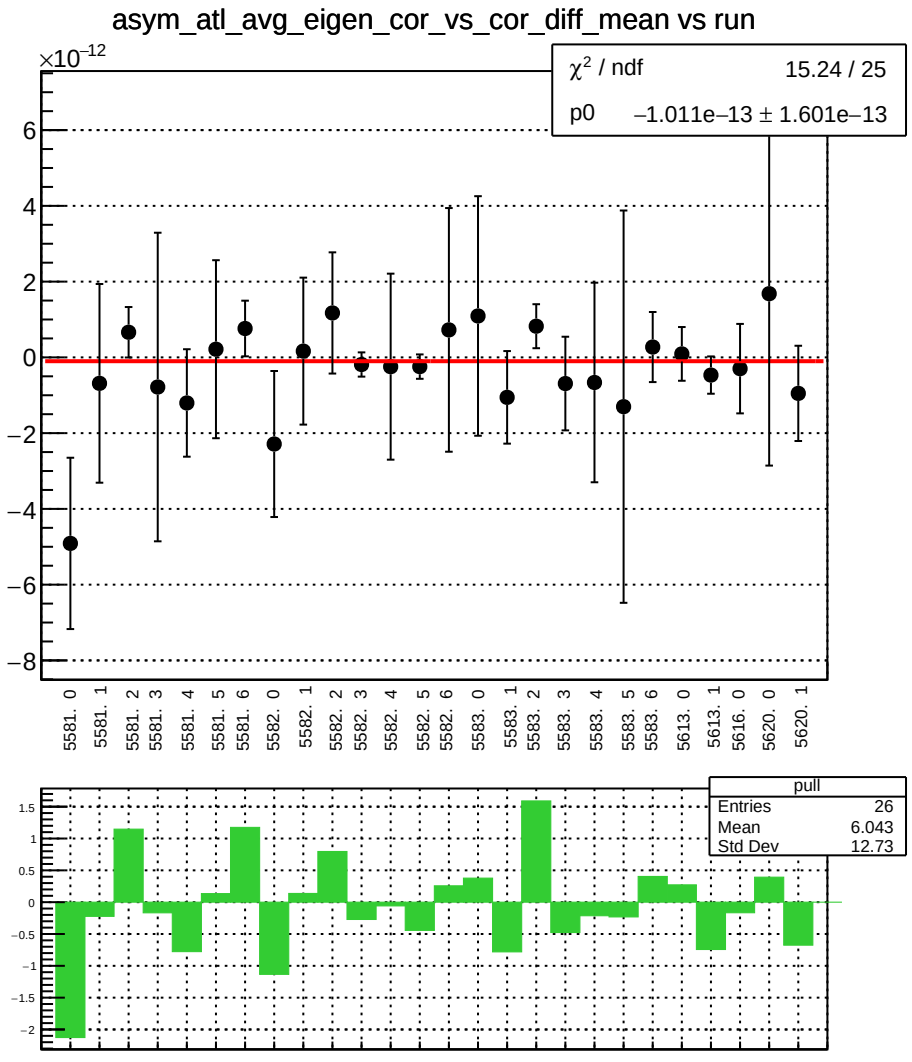

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.79 / 32
p0 0.147 ± 0.2101
pull
Entries 33
Mean 29.42
Std Dev 0

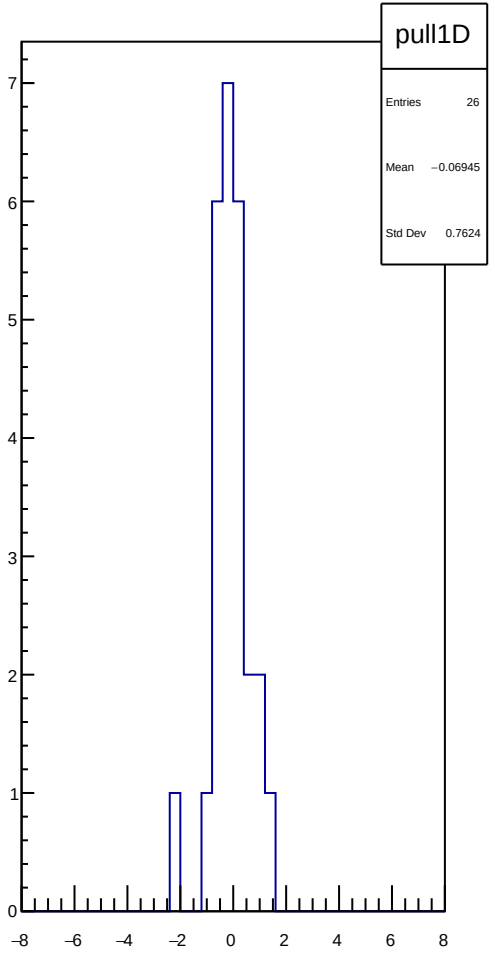

pull1D
Entries 33
Mean −0.107
Std Dev 0.9756

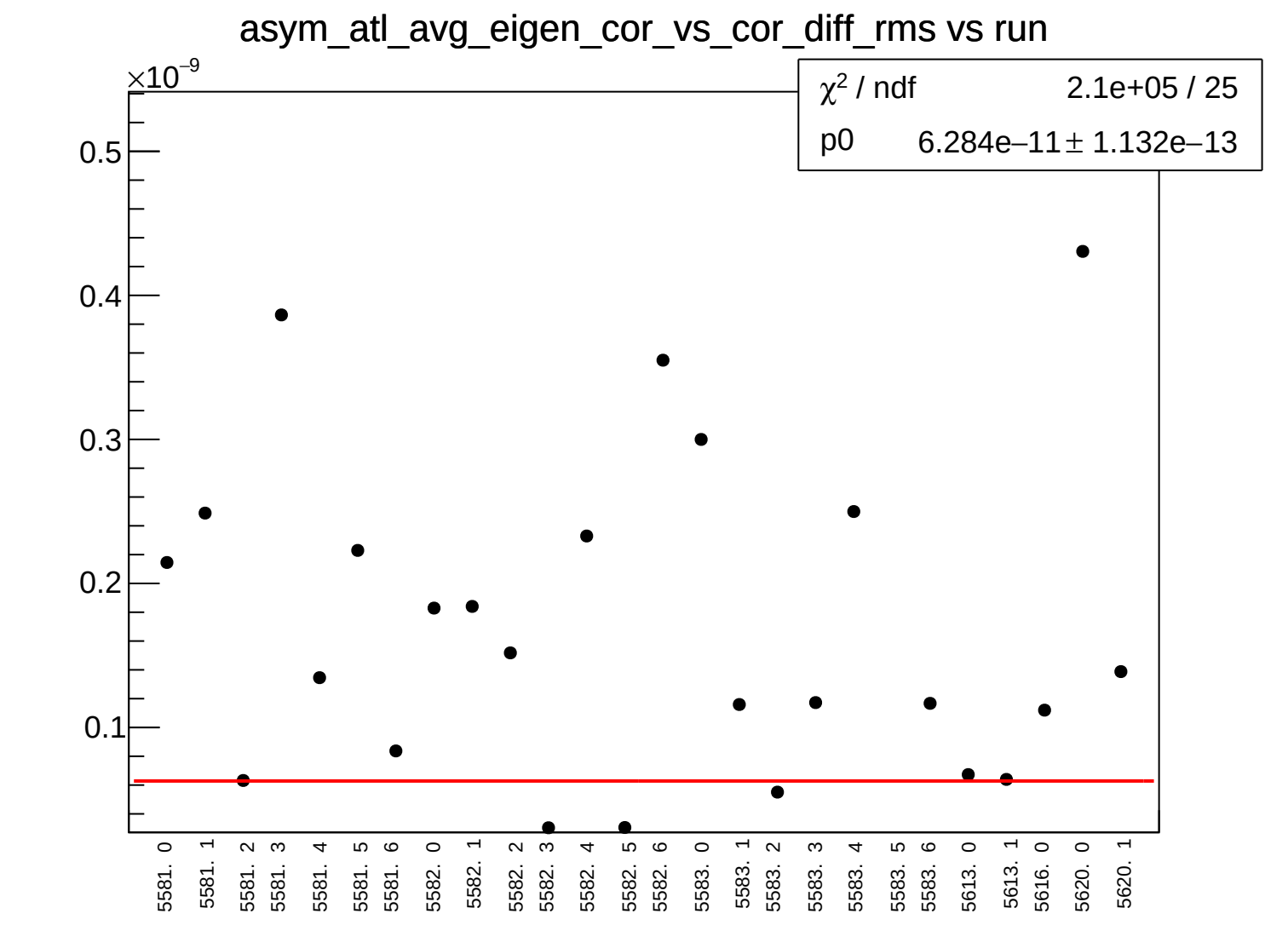

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.295e+05 / 32
p0 96.57 ± 0.1486
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

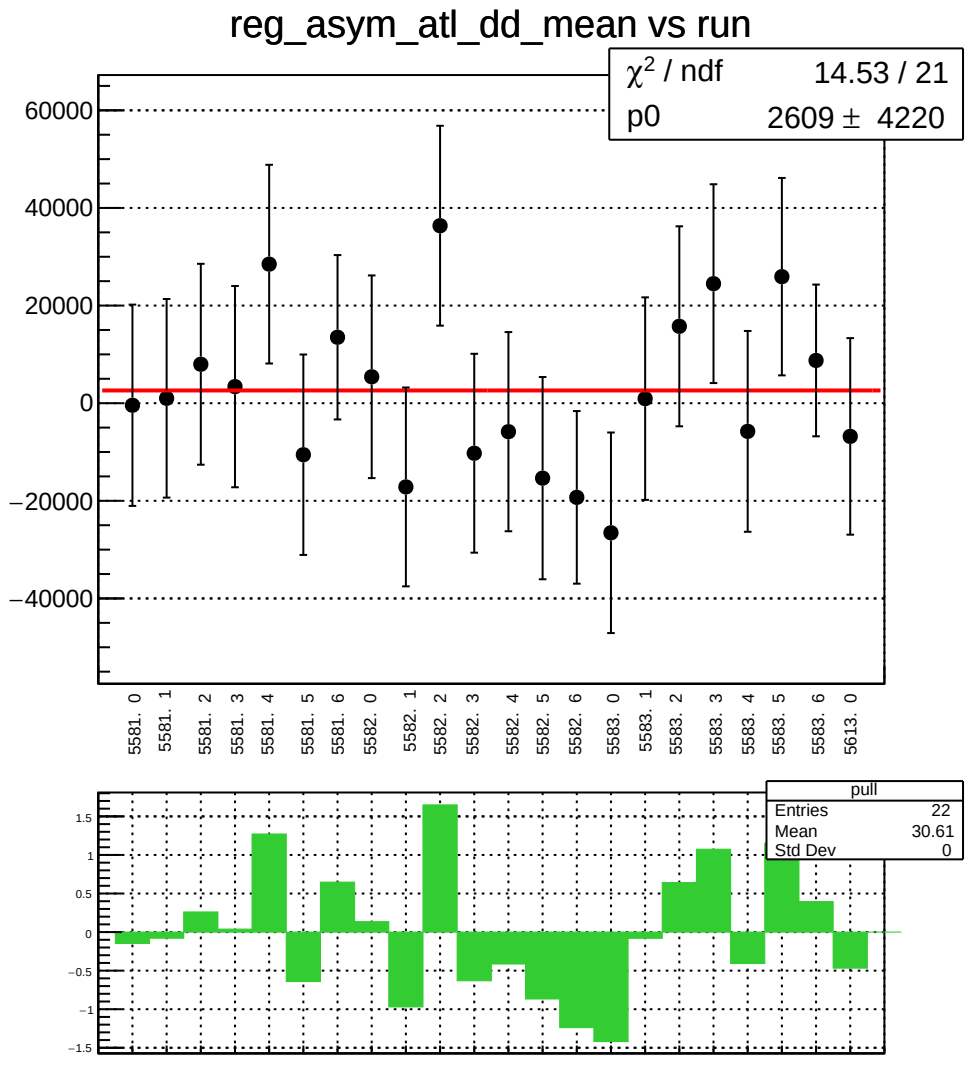

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.79 / 32
p0 0.147 ± 0.2101
30
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.107
Std Dev 0.9756
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

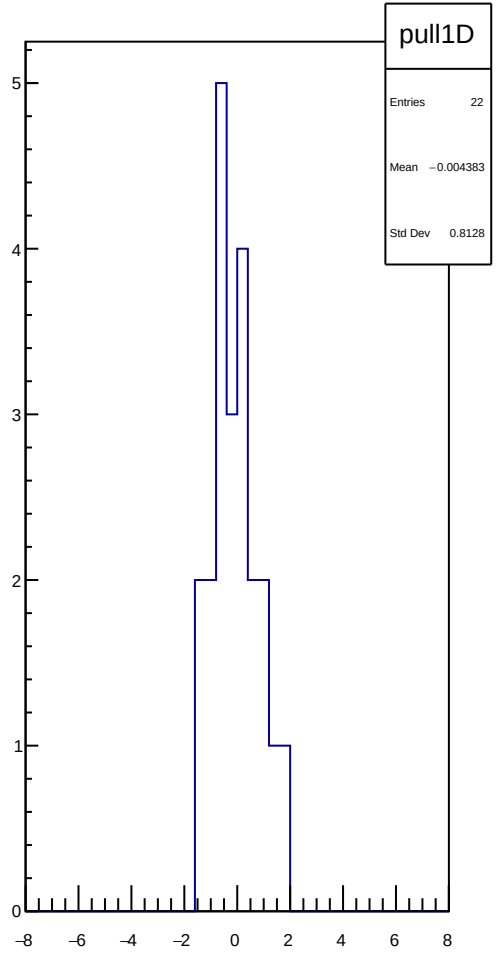

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.295e+05 / 32
p0 96.57 ± 0.1486
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

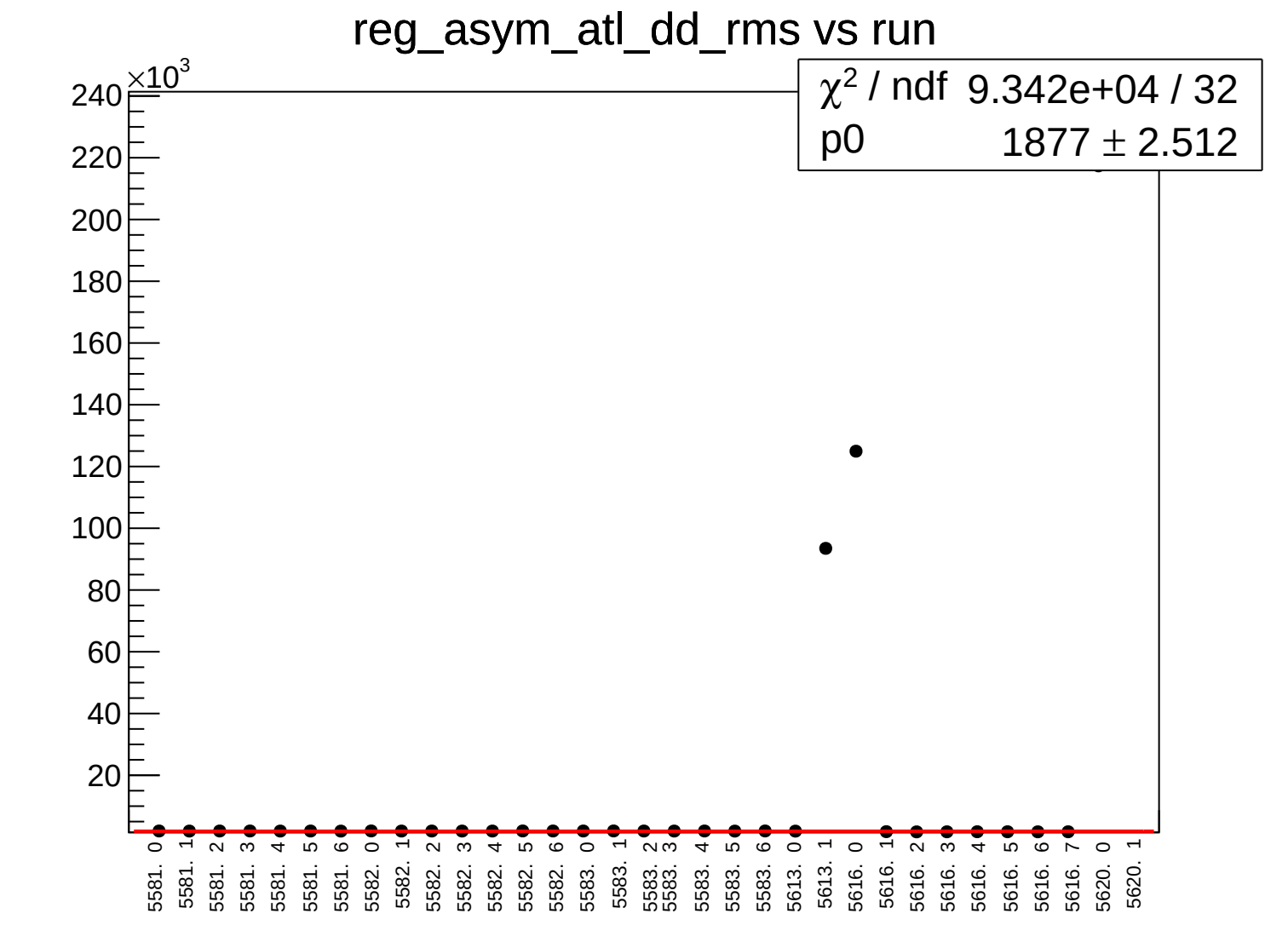

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 15.24 / 25
p0 −1.011e−13 ± 1.601e−13
6
4
2
0
−2
−4
−6
−8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 6.043
Std Dev 12.73
1.5
1
0.5
0
−0.5
−1
−1.5
−2

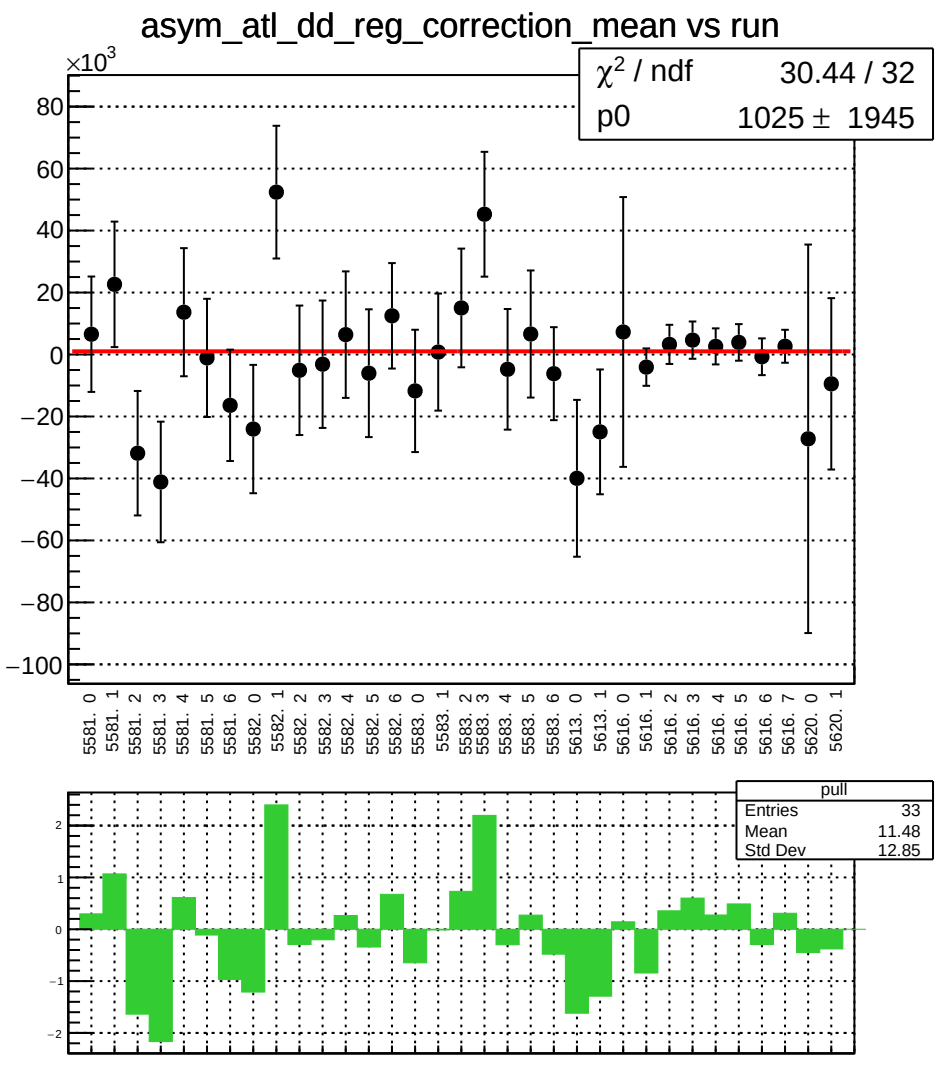

pull1D
Entries 26
Mean −0.06945
Std Dev 0.7624
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

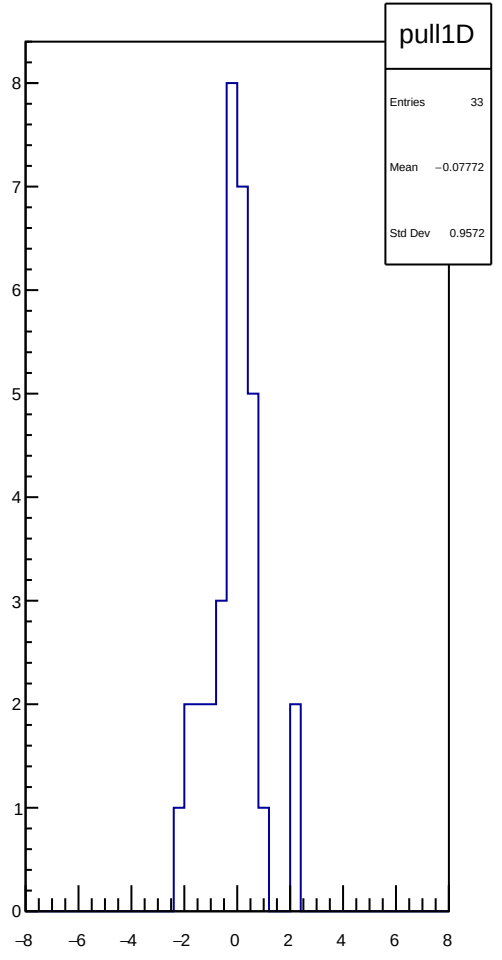

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.1e+05 / 25
p0 6.284e−11 ± 1.132e−13
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

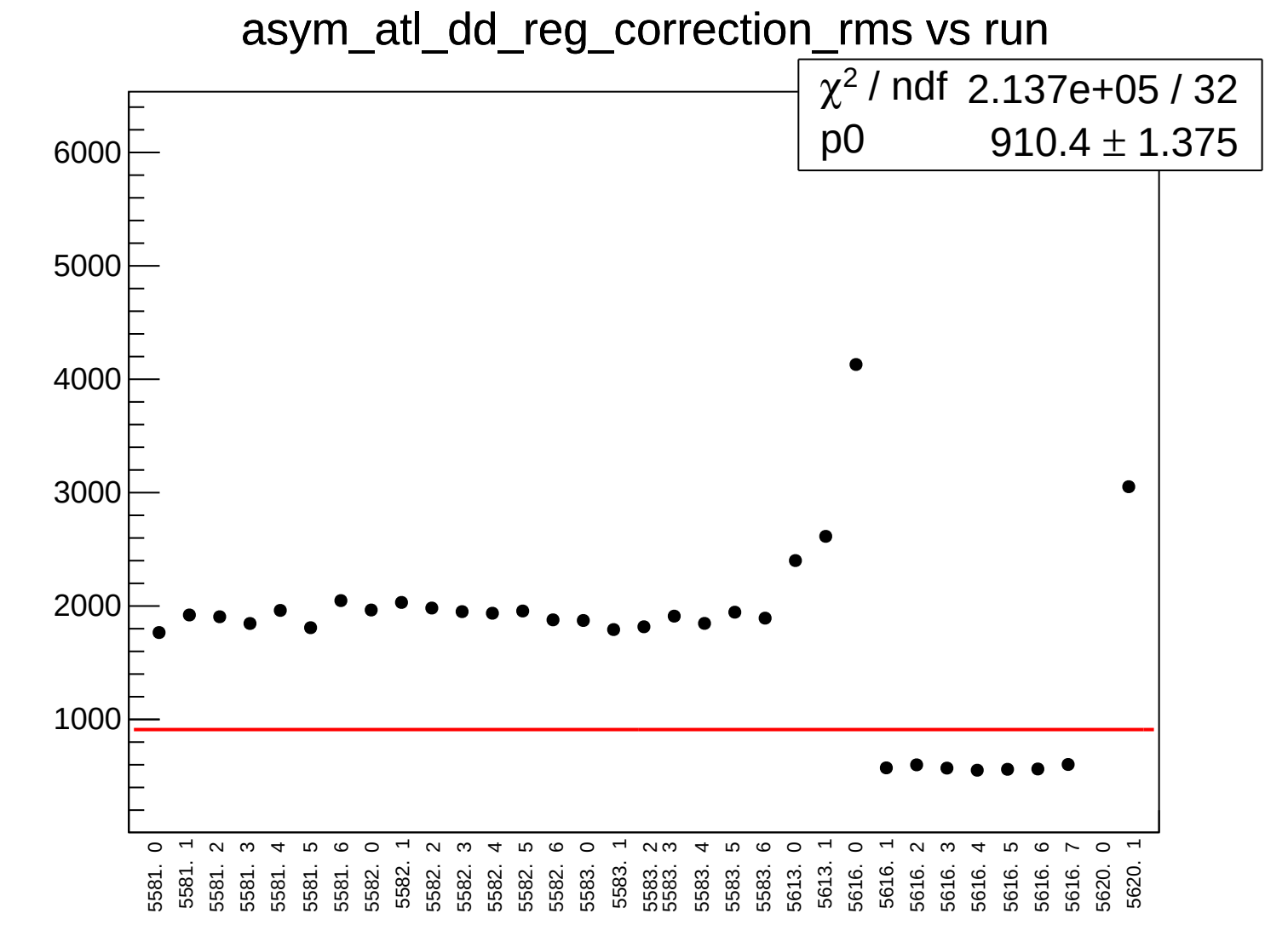

reg_asym_atl_dd_mean vs run
χ² / ndf 14.53 / 21
p0 2609 ± 4220
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 30.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

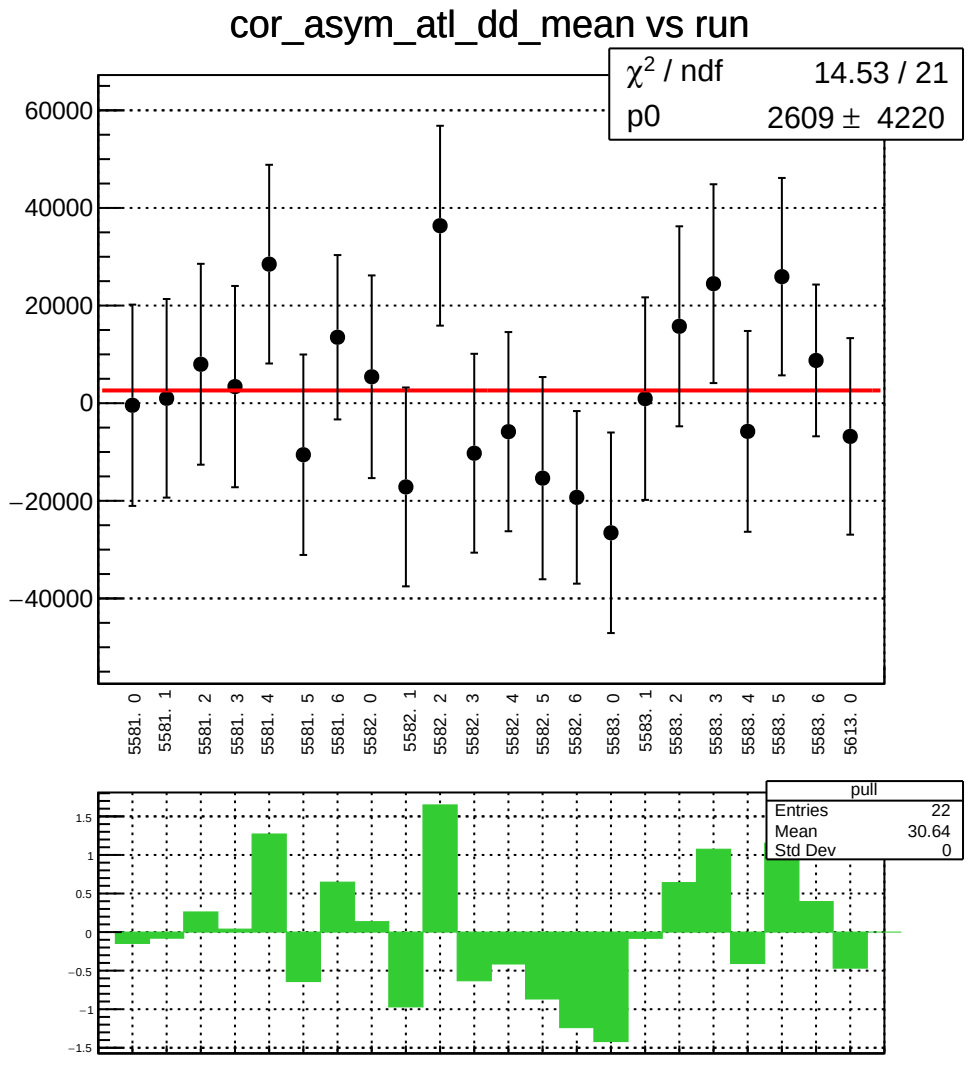

pull1D
Entries 22
Mean −0.004383
Std Dev 0.8128
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

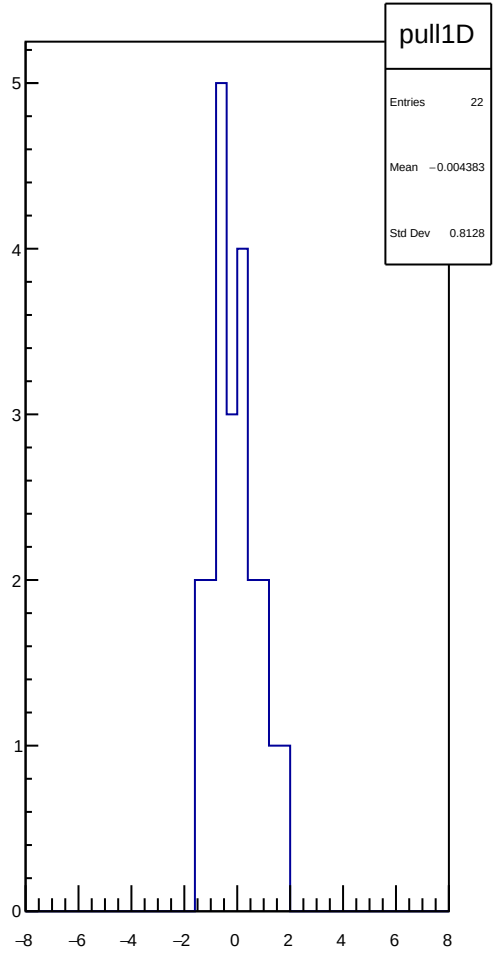

reg_asym_atl_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.342e+04 / 32
p0 1877 ± 2.512
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

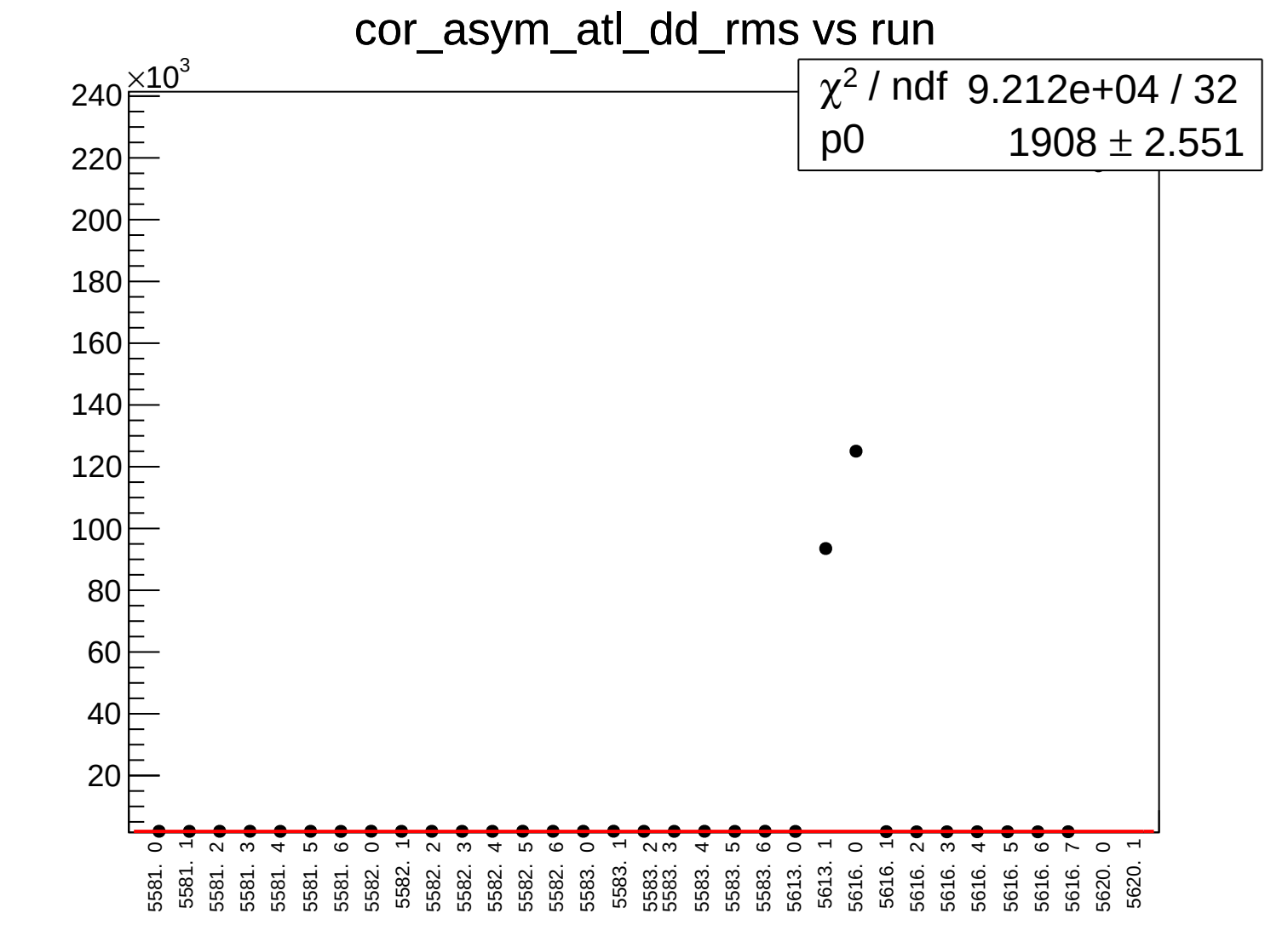

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 30.44 / 32
p0 1025 ± 1945
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 11.48
Std Dev 12.85
2
1
0
−1
−2

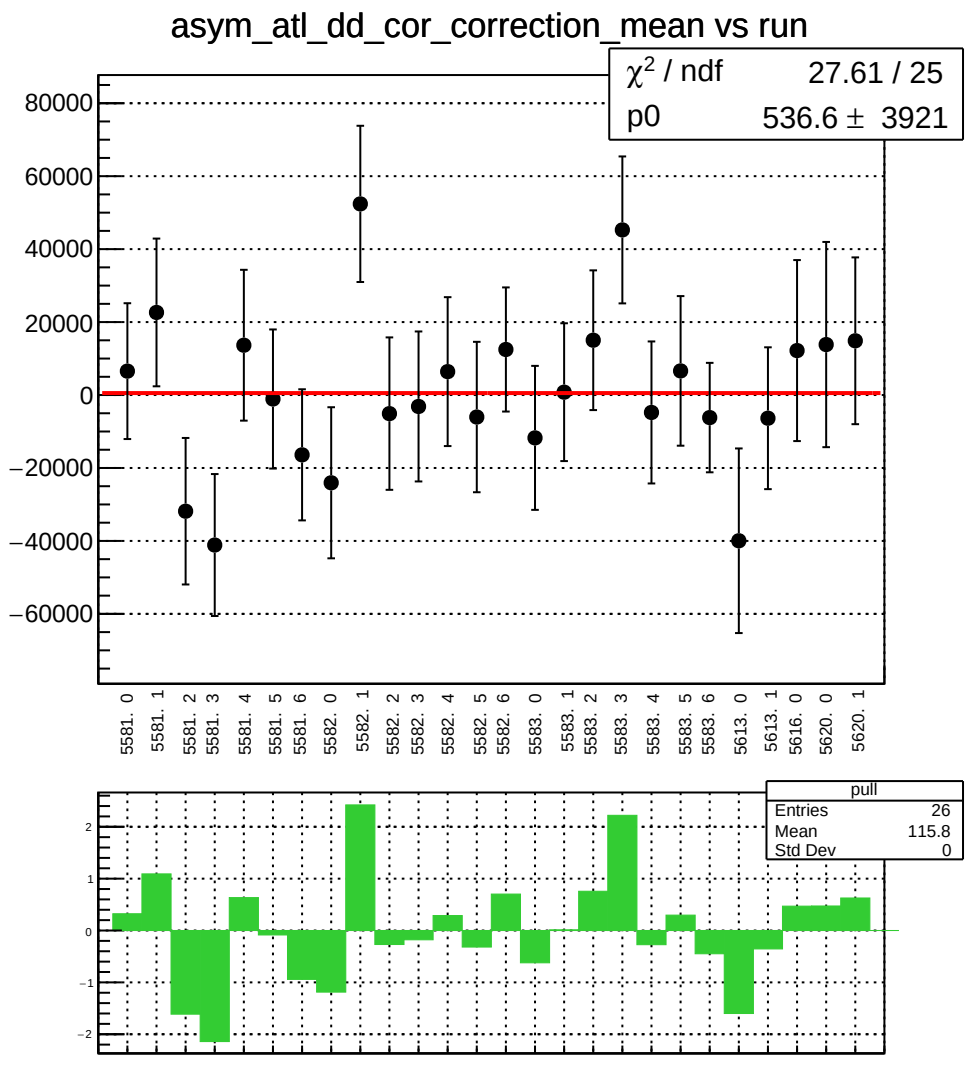

pull1D
Entries 33
Mean −0.07772
Std Dev 0.9572
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

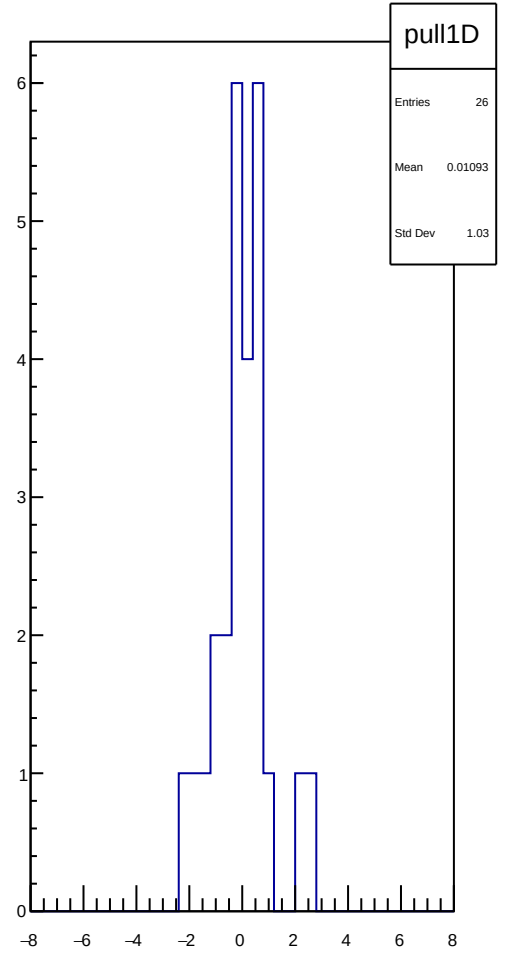

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 2.137e+05 / 32
p0 910.4 ± 1.375
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

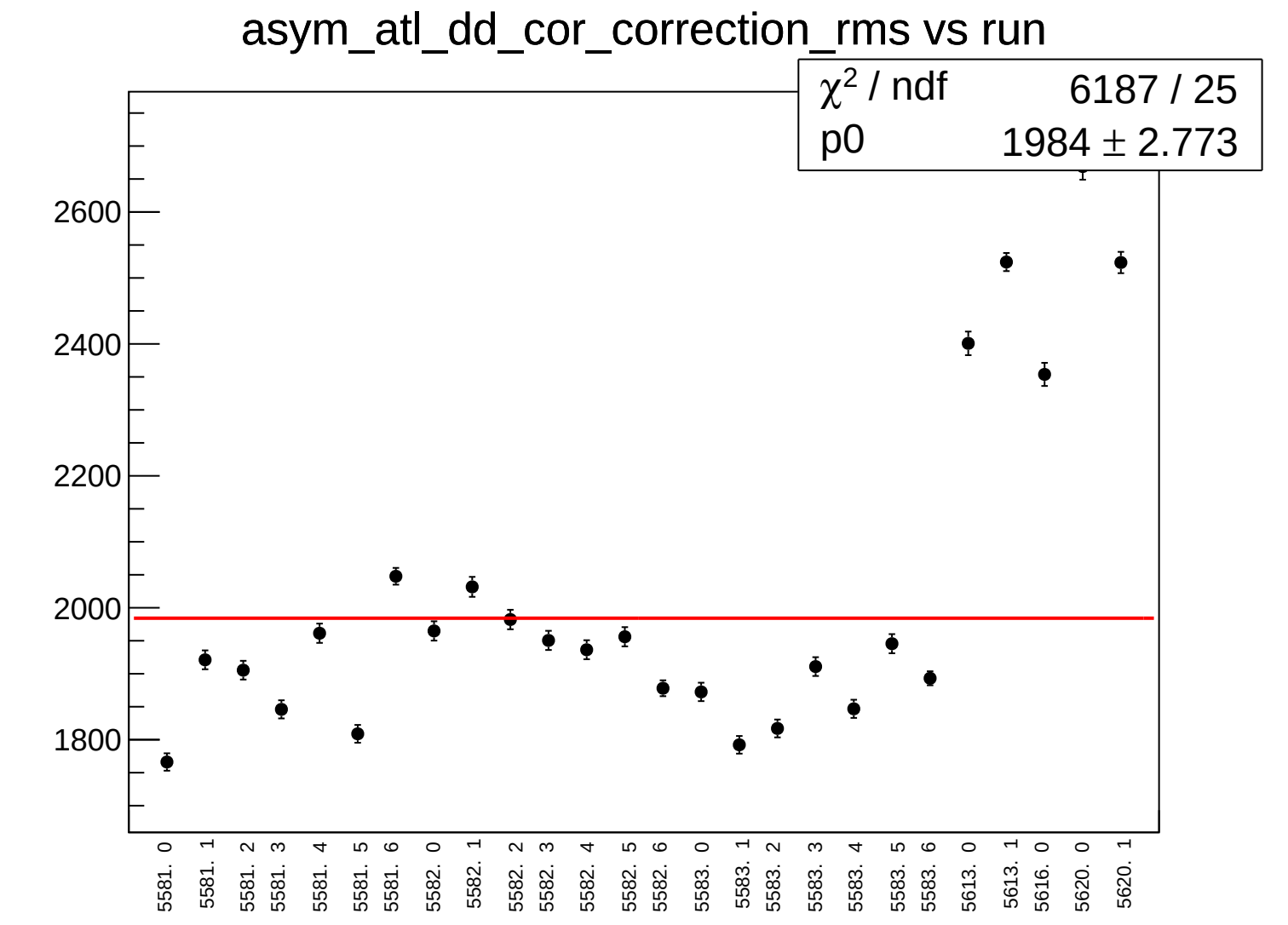

cor_asym_atl_dd_mean vs run
χ² / ndf 14.53 / 21
p0 2609 ± 4220
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 30.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

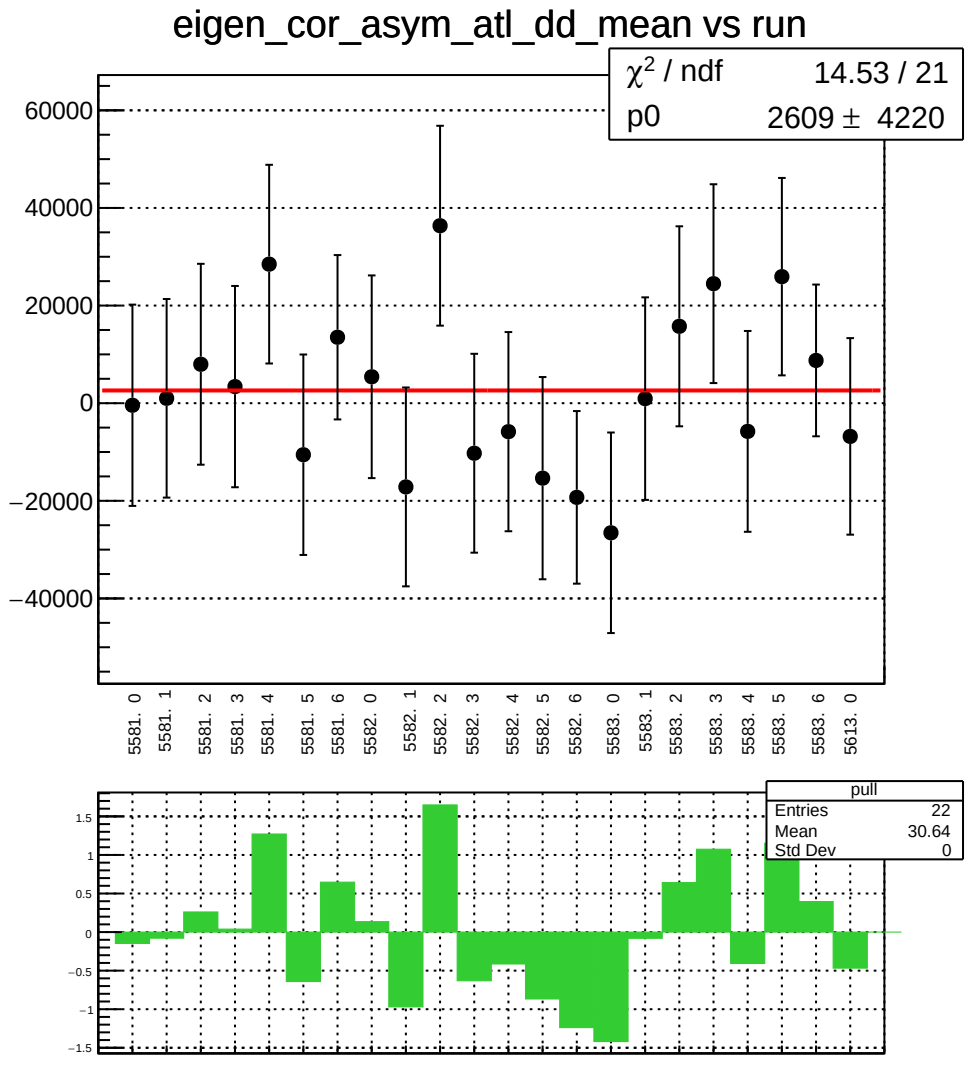

pull1D
Entries 22
Mean −0.004383
Std Dev 0.8128
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

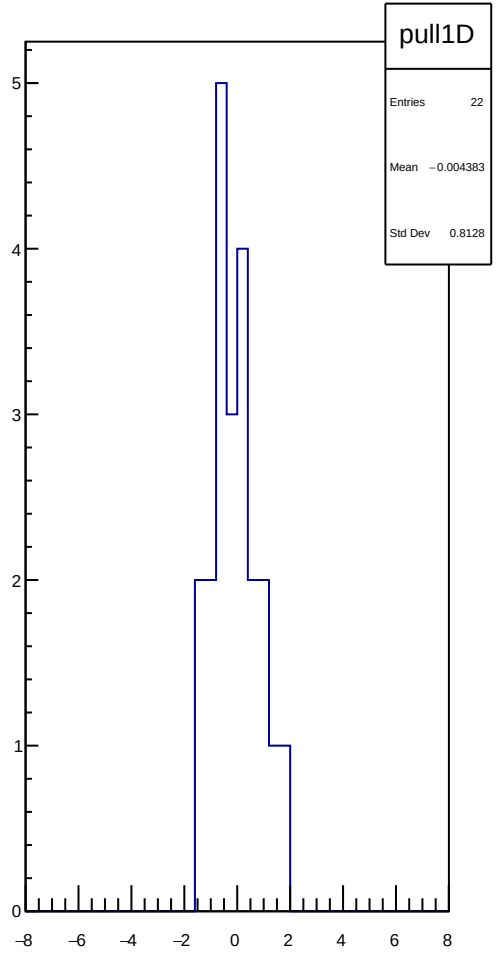

cor_asym_atl_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.212e+04 / 32
p0 1908 ± 2.551
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

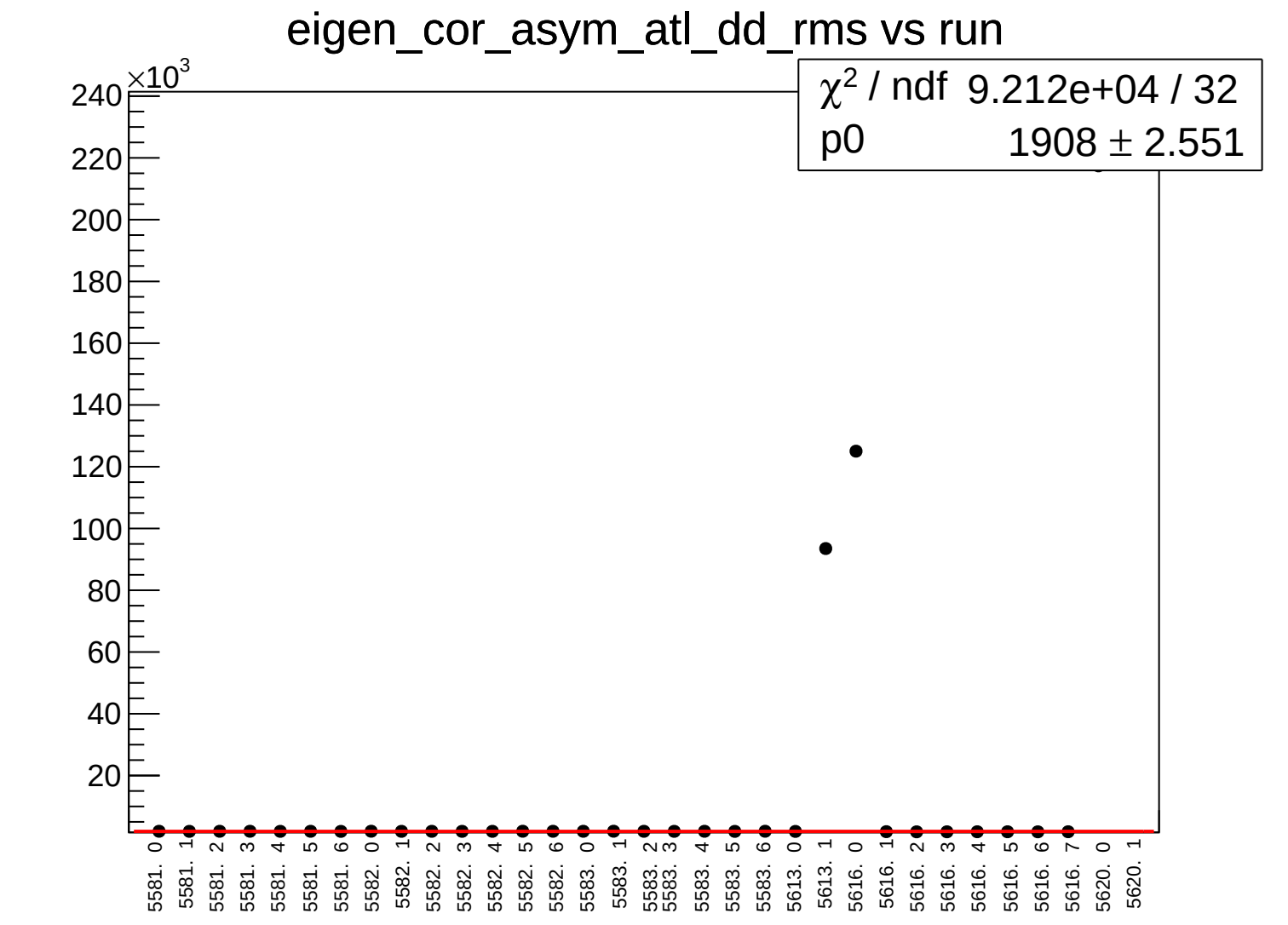

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 27.61 / 25
p0 536.6 ± 3921
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 115.8
Std Dev 0
2
1
0
−1
−2

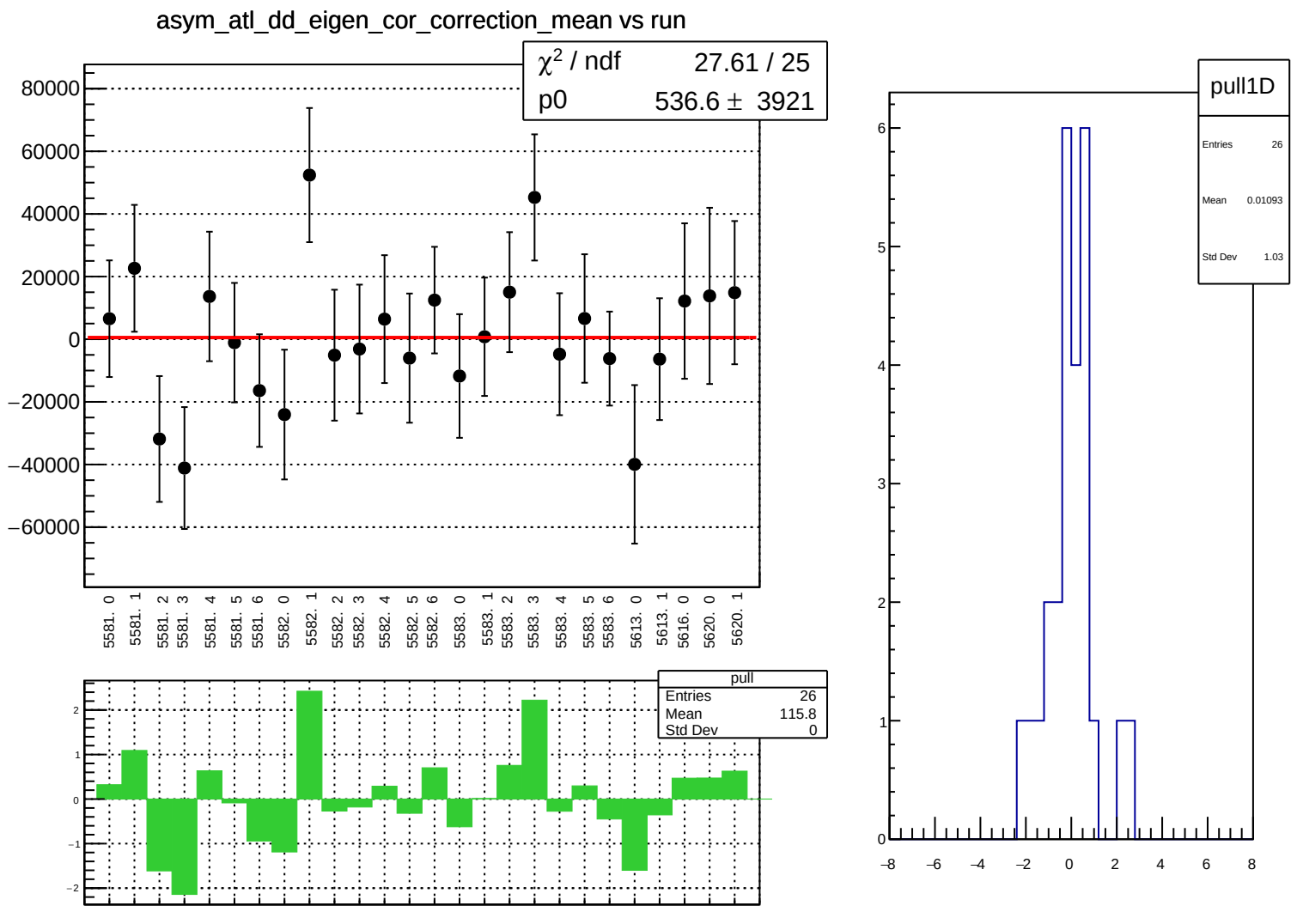

pull1D
Entries 26
Mean 0.01093
Std Dev 1.03
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

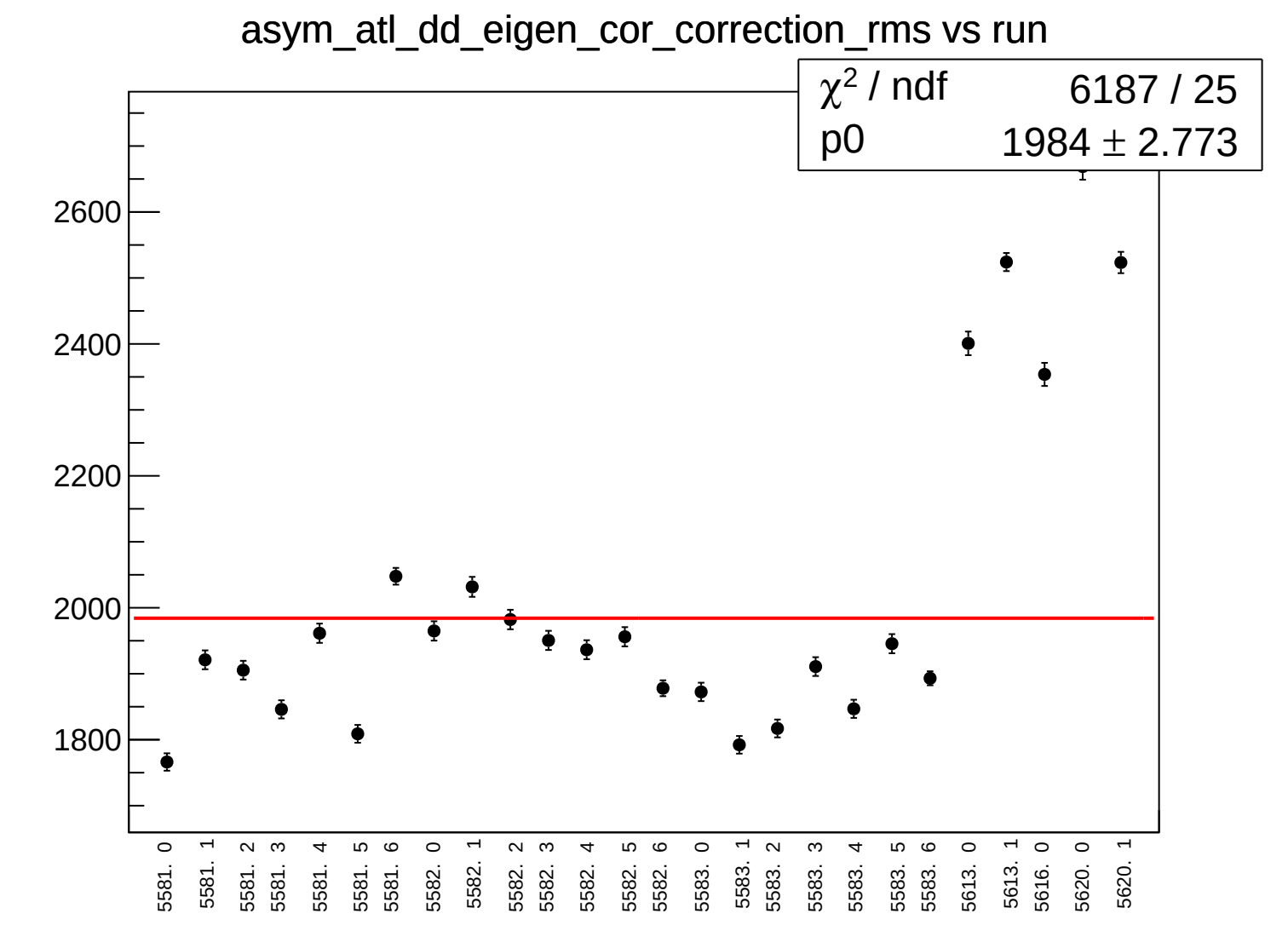

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 6187 / 25
p0 1984 ± 2.773
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

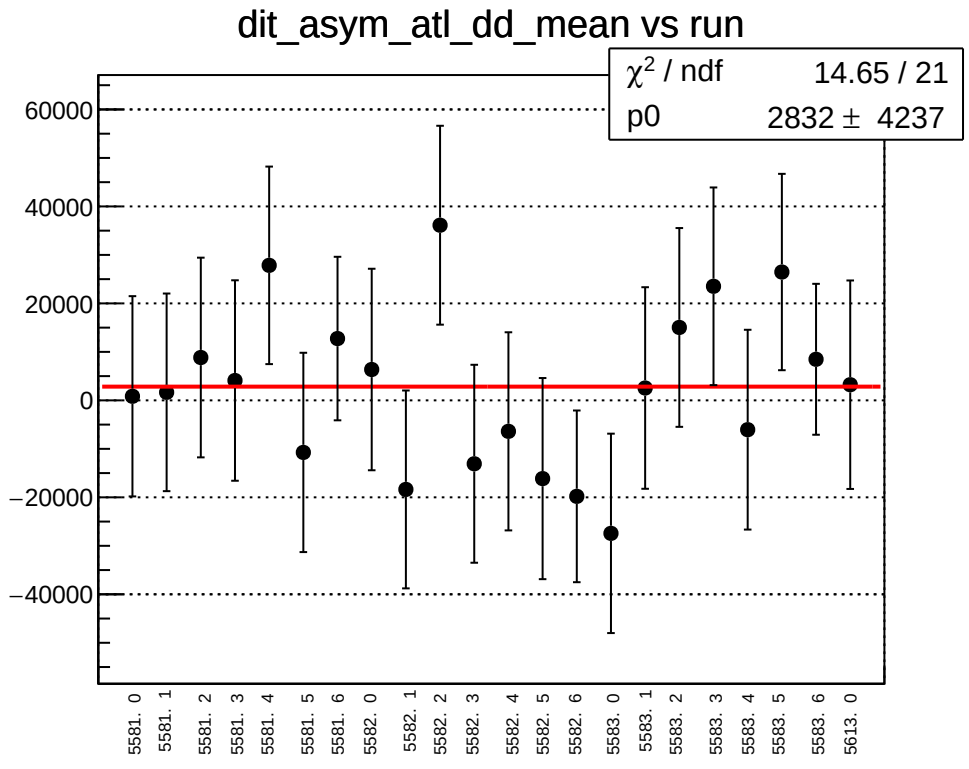

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 14.53 / 21
p0 2609 ± 4220
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 30.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

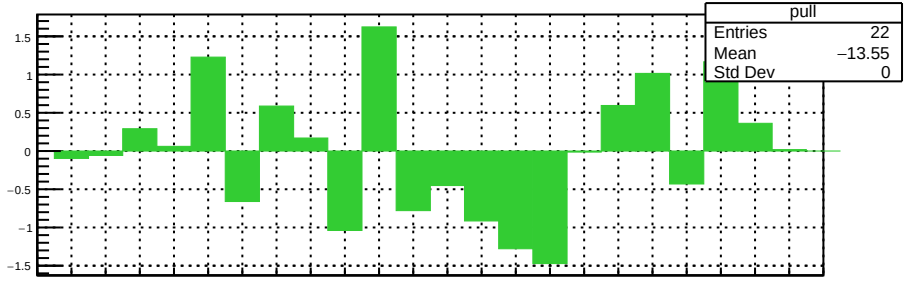

pull1D
Entries 22
Mean −0.004383
Std Dev 0.8128
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

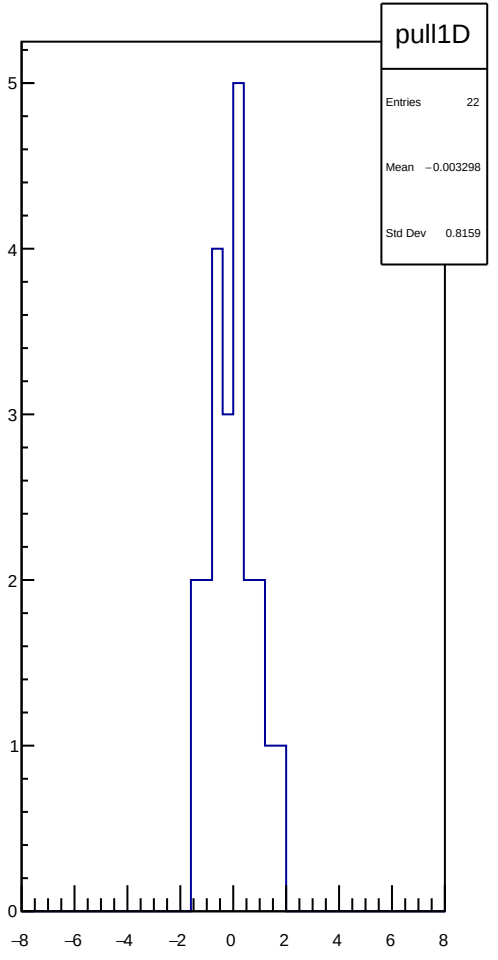

eigen_cor_asym_atl_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.212e+04 / 32
p0 1908 ± 2.551
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

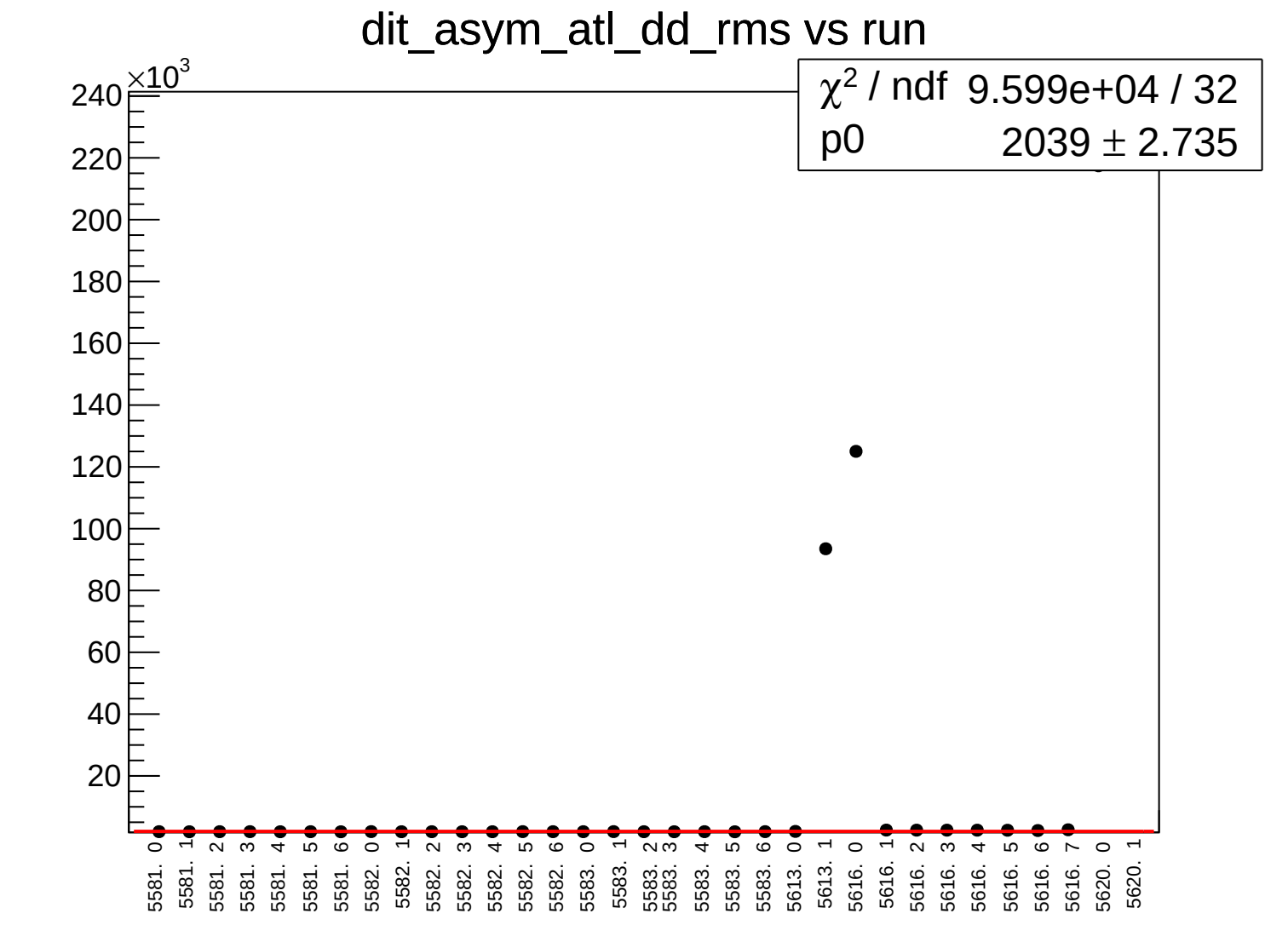

asym_atl_dd_eigen_cor_correction_mean vs run
χ² / ndf 27.61 / 25
p0 536.6 ± 3921
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 115.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.01093
Std Dev 1.03
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

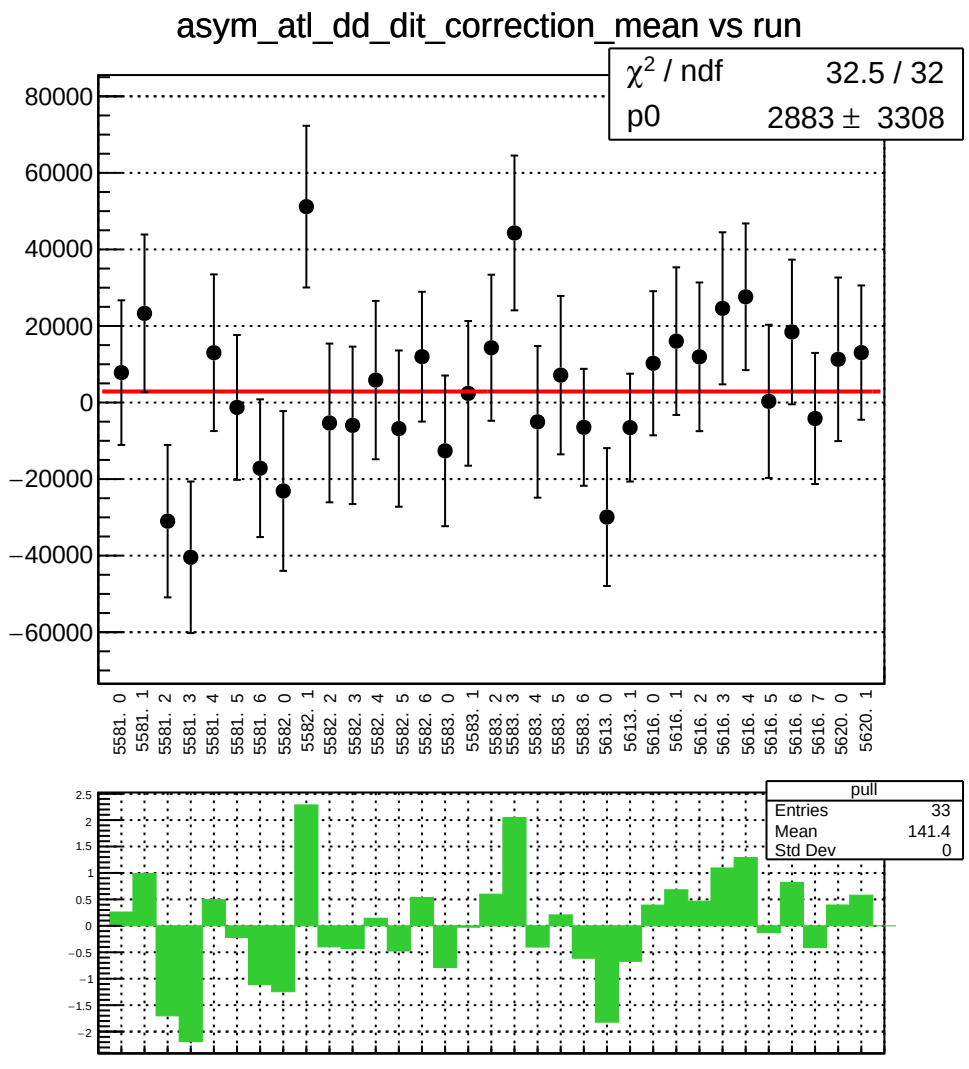

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 6187 / 25
p0 1984 ± 2.773
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

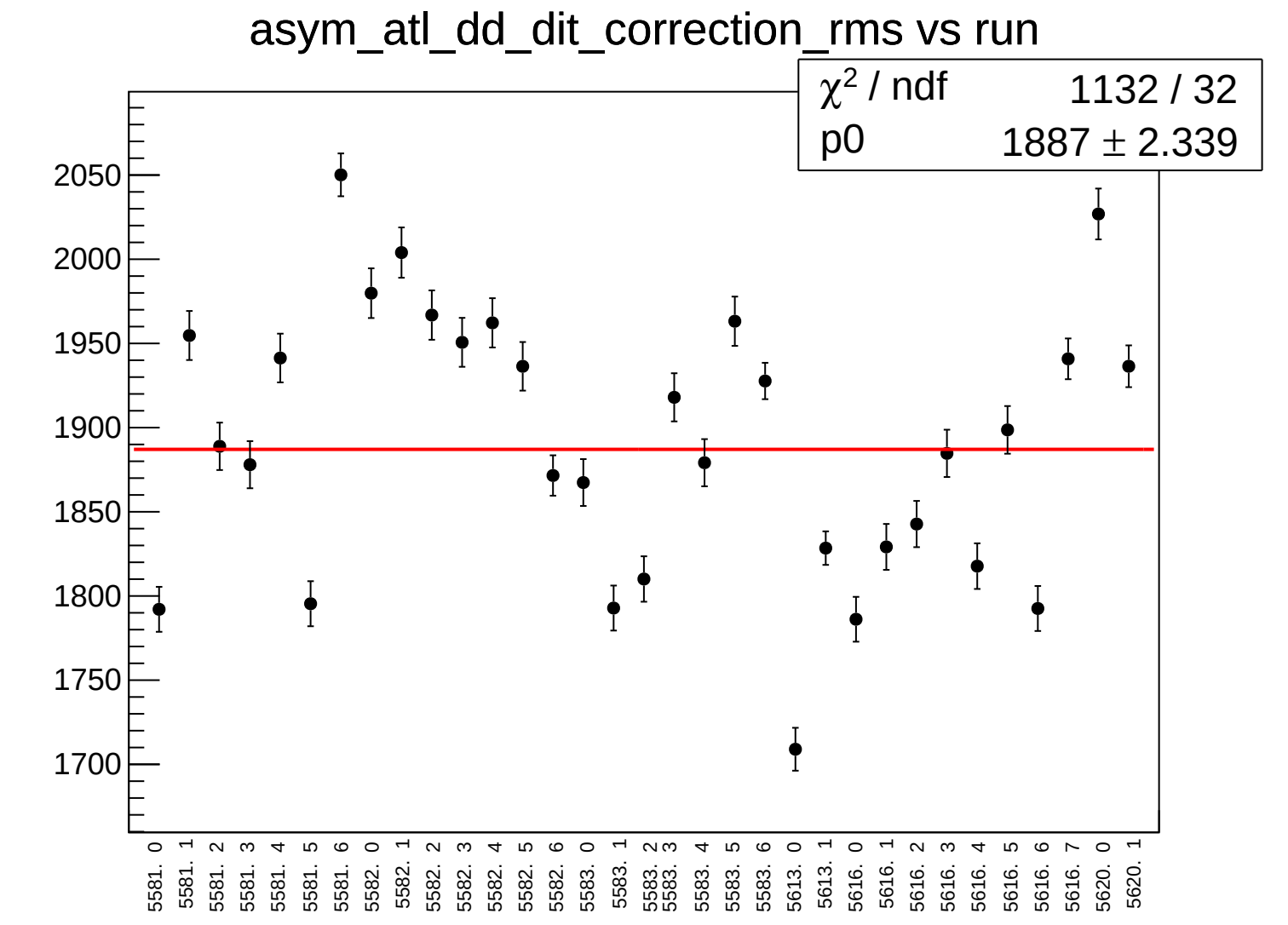

dit_asym_atl_dd_mean vs run
χ² / ndf 14.65 / 21
p0 2832 ± 4237
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

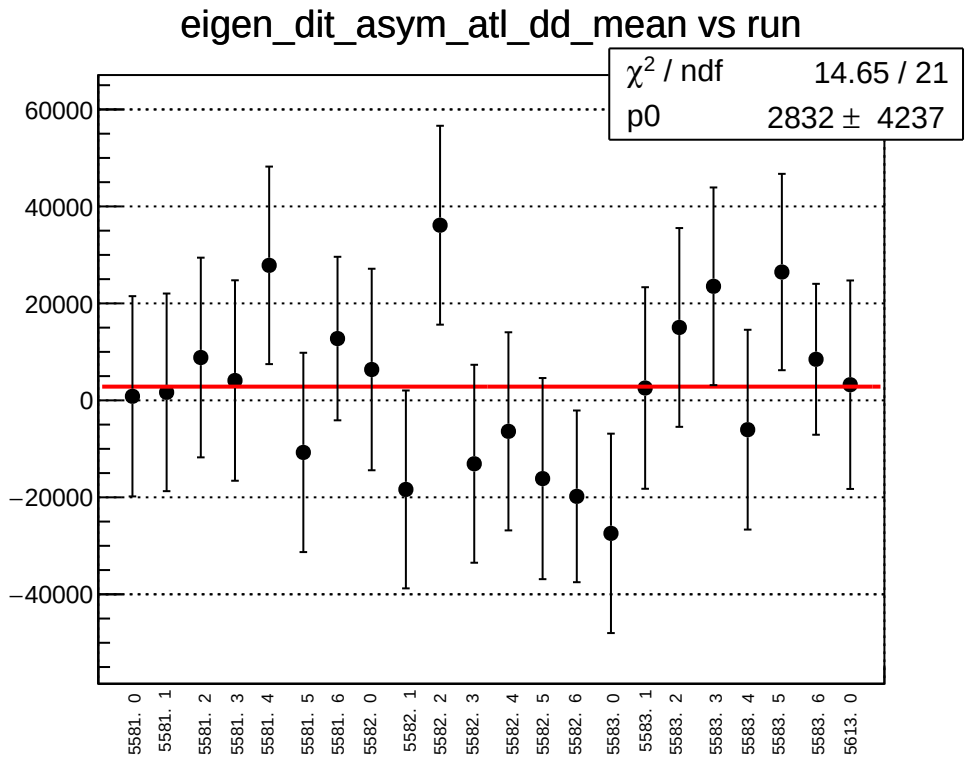

pull
Entries 22
Mean −13.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

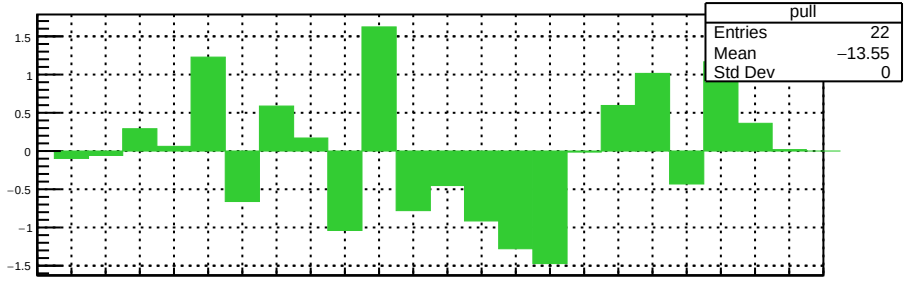

pull1D
Entries 22
Mean −0.003298
Std Dev 0.8159
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

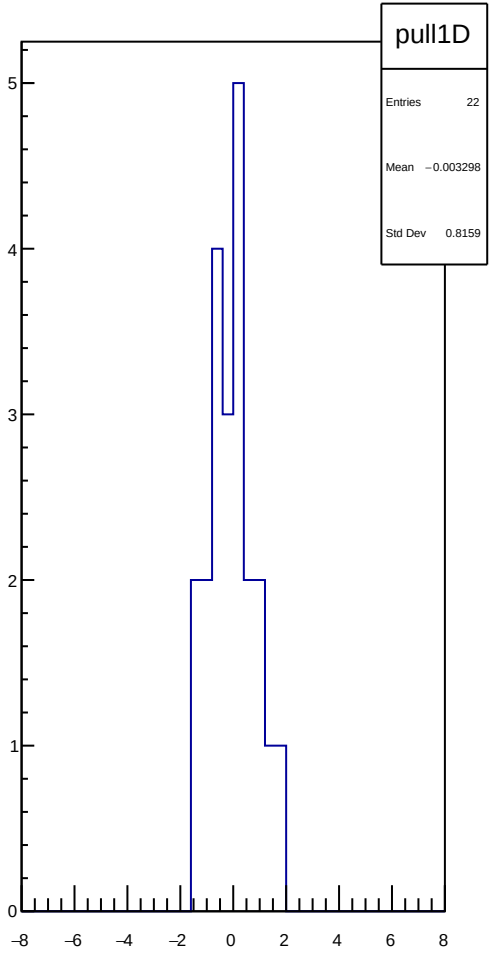

dit_asym_atl_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.599e+04 / 32
p0 2039 ± 2.735
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

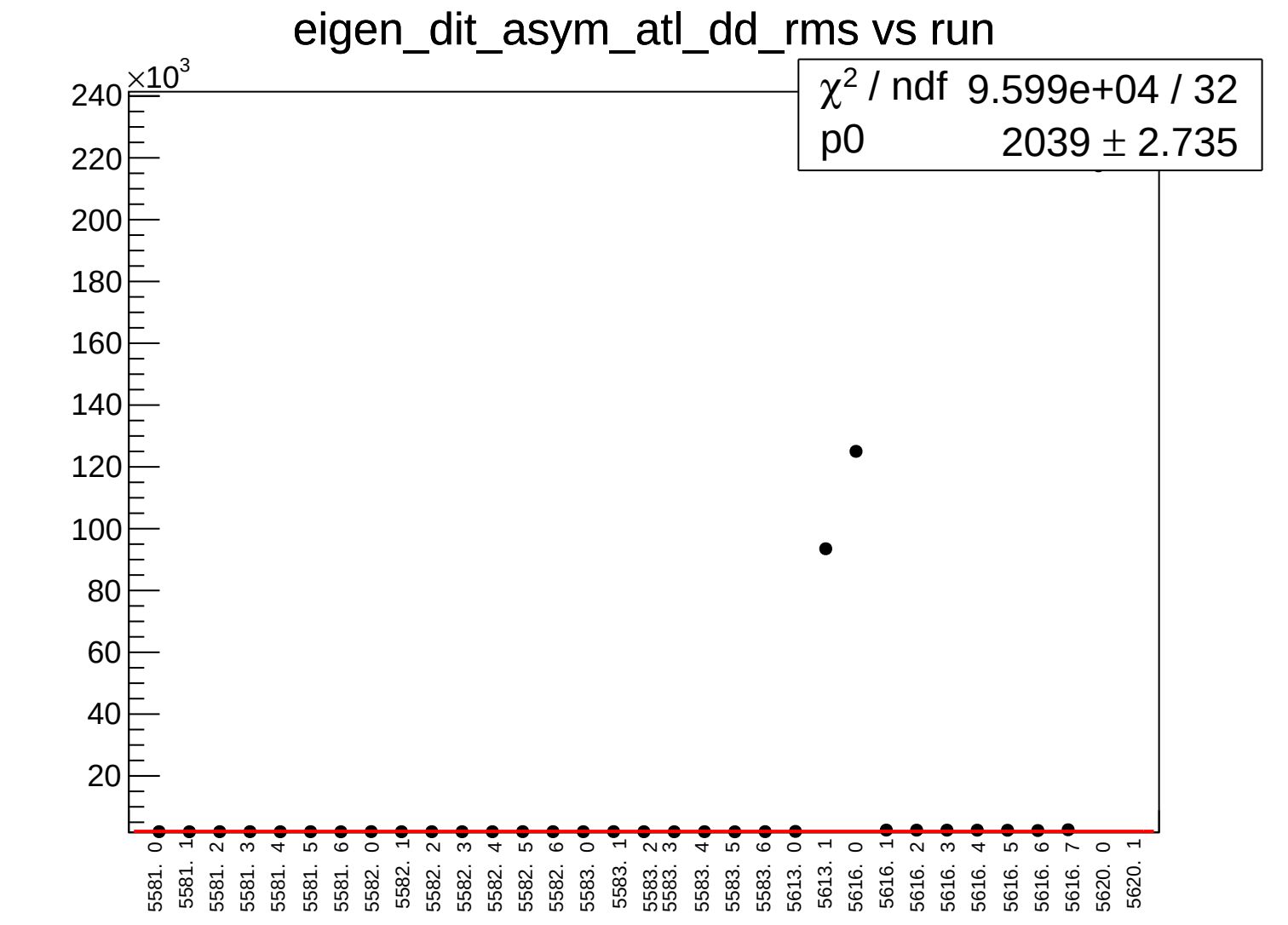

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 32.5 / 32
p0 2883 ± 3308
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 141.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.02006
Std Dev 0.9922
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

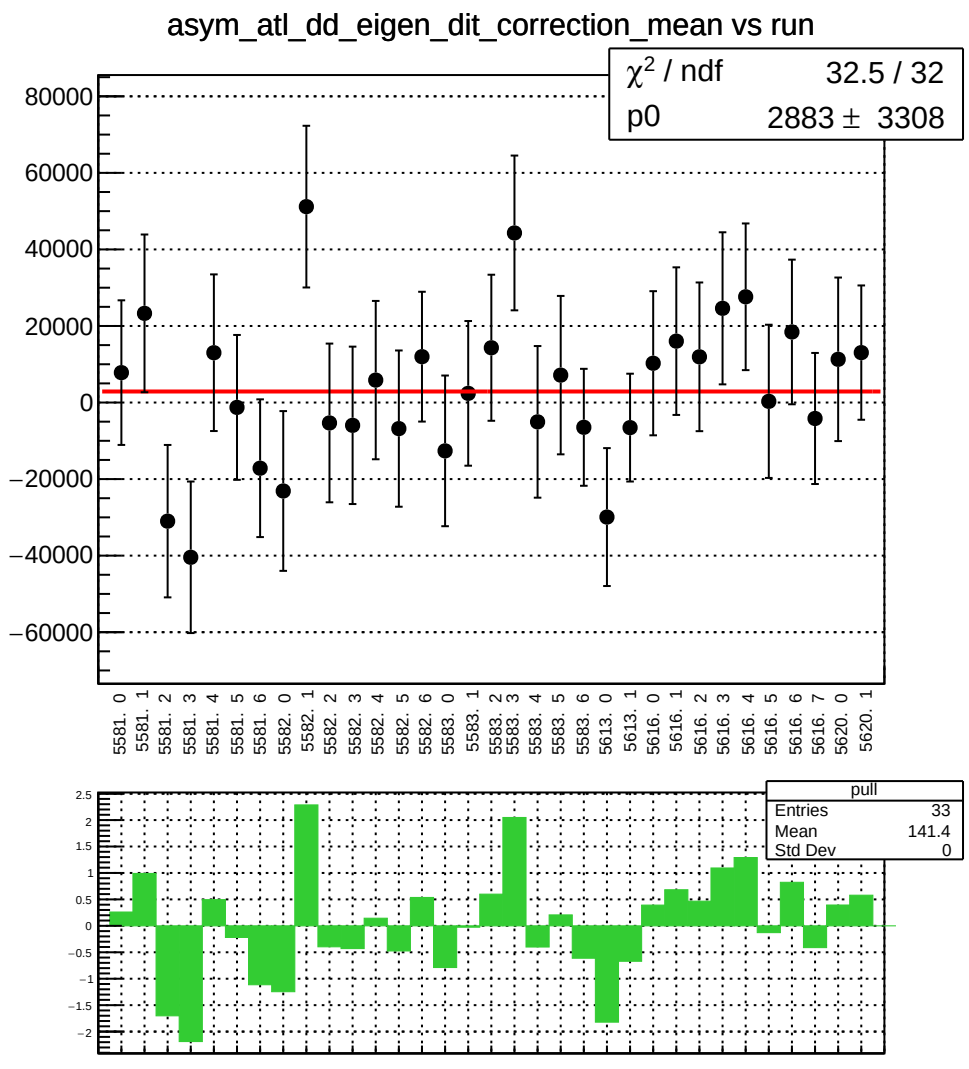

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 1132 / 32
p0 1887 ± 2.339
2050
2000
1950
1900
1850
1800
1750
1700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

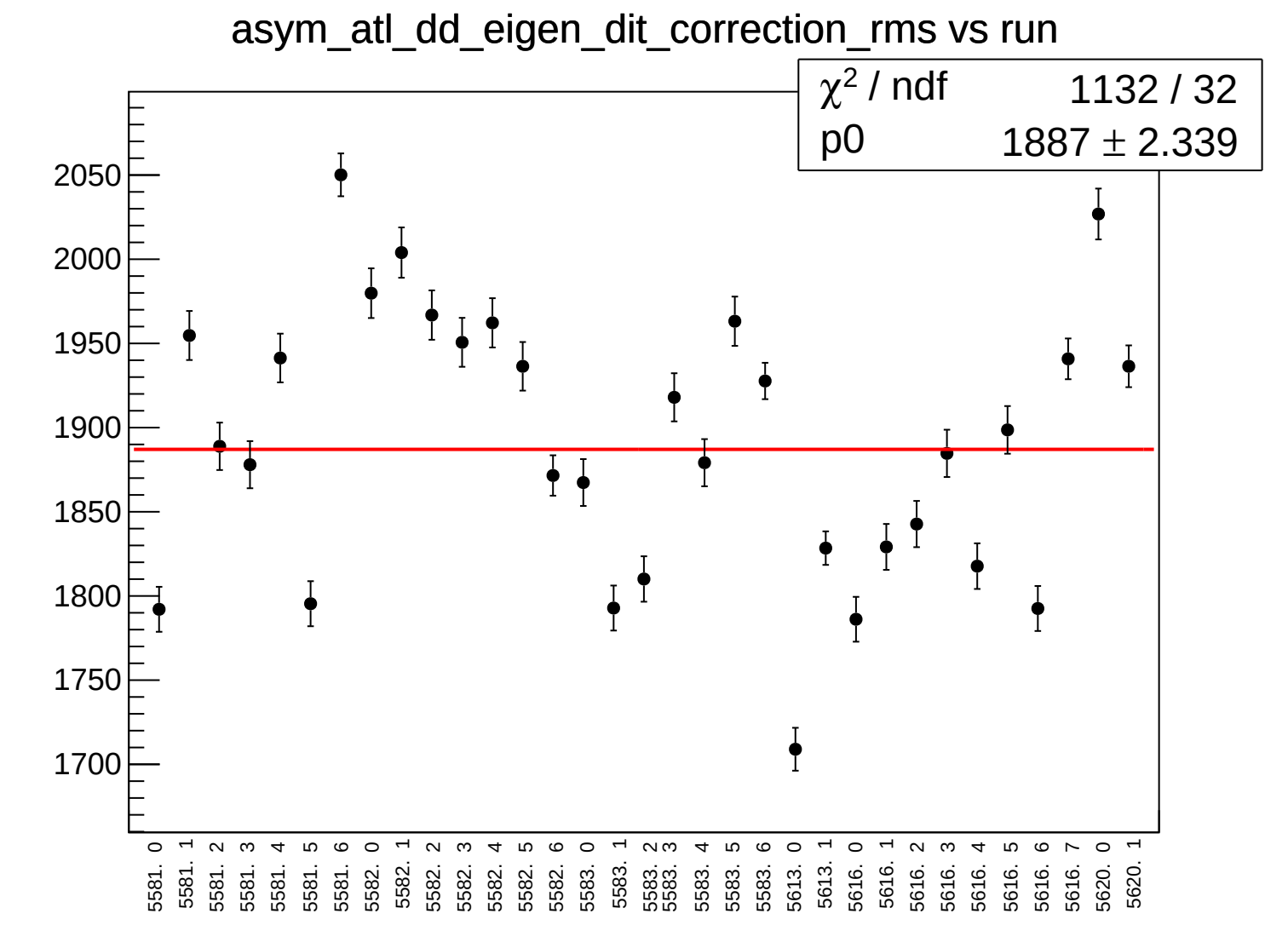

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 14.65 / 21
p0 2832 ± 4237
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

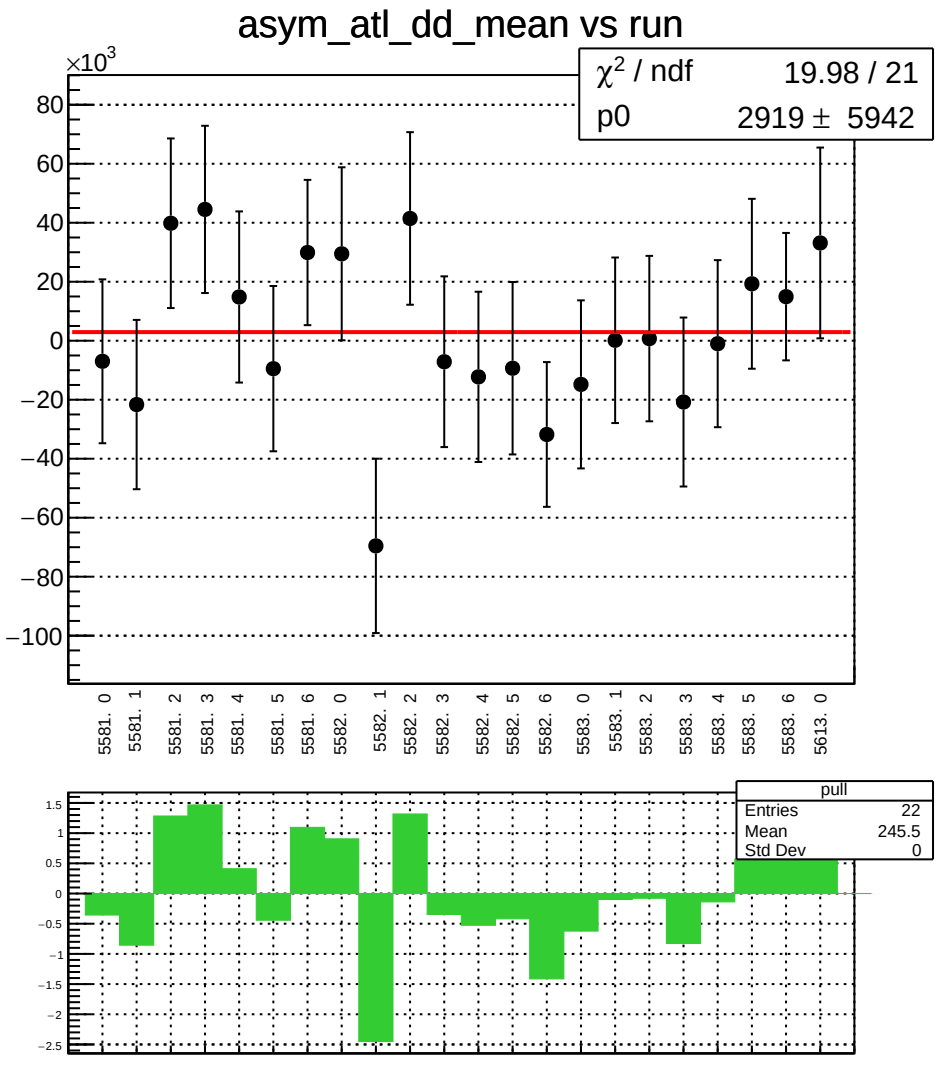

pull
Entries 22
Mean −13.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

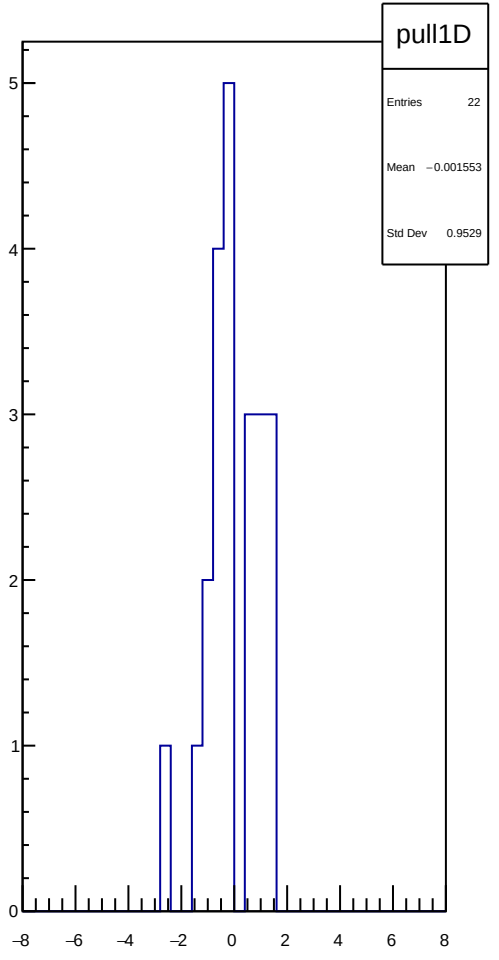

pull1D
Entries 22
Mean −0.003298
Std Dev 0.8159
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

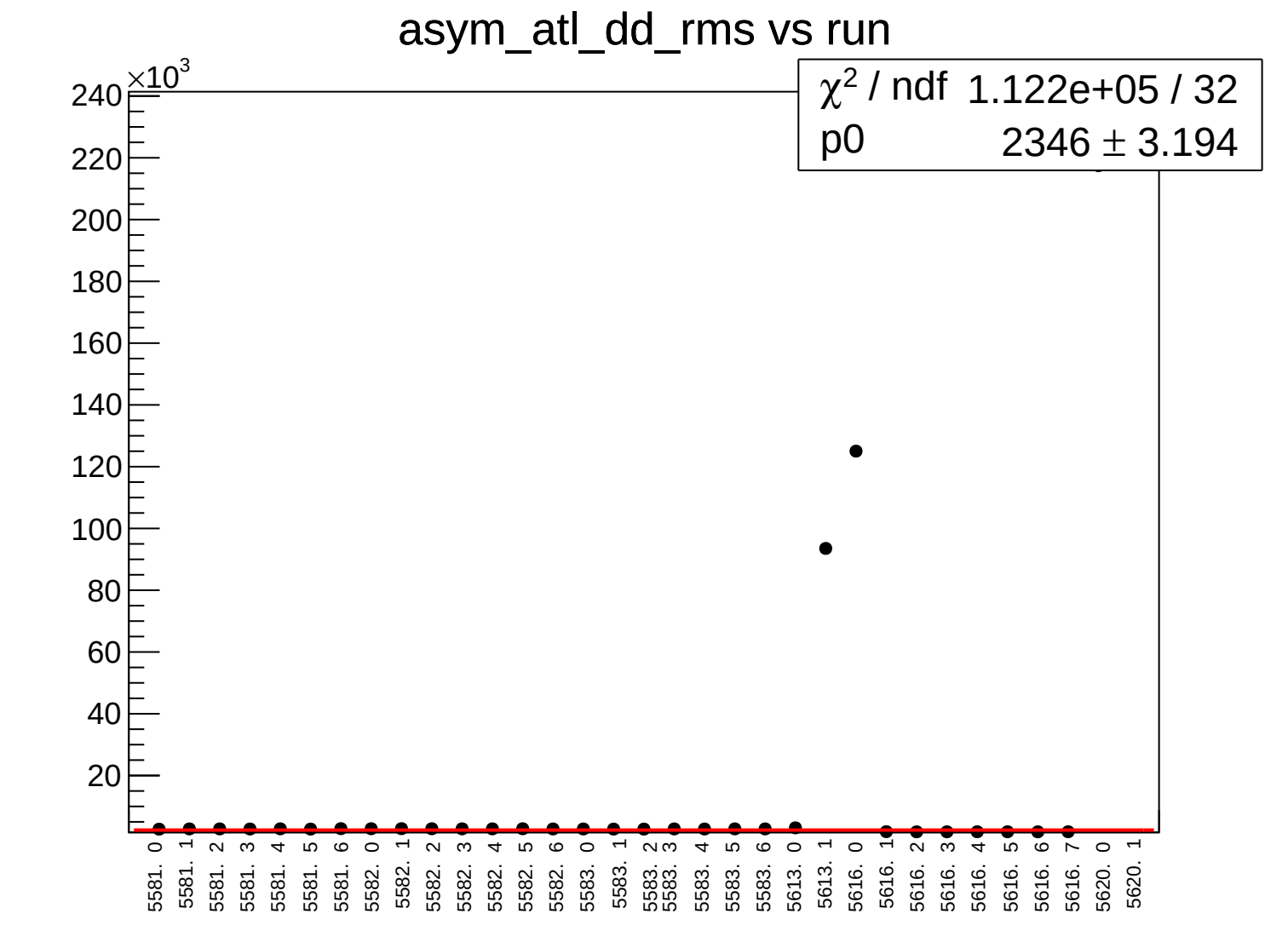

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 9.599e+04 / 32
p0 2039 ± 2.735
×10³
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

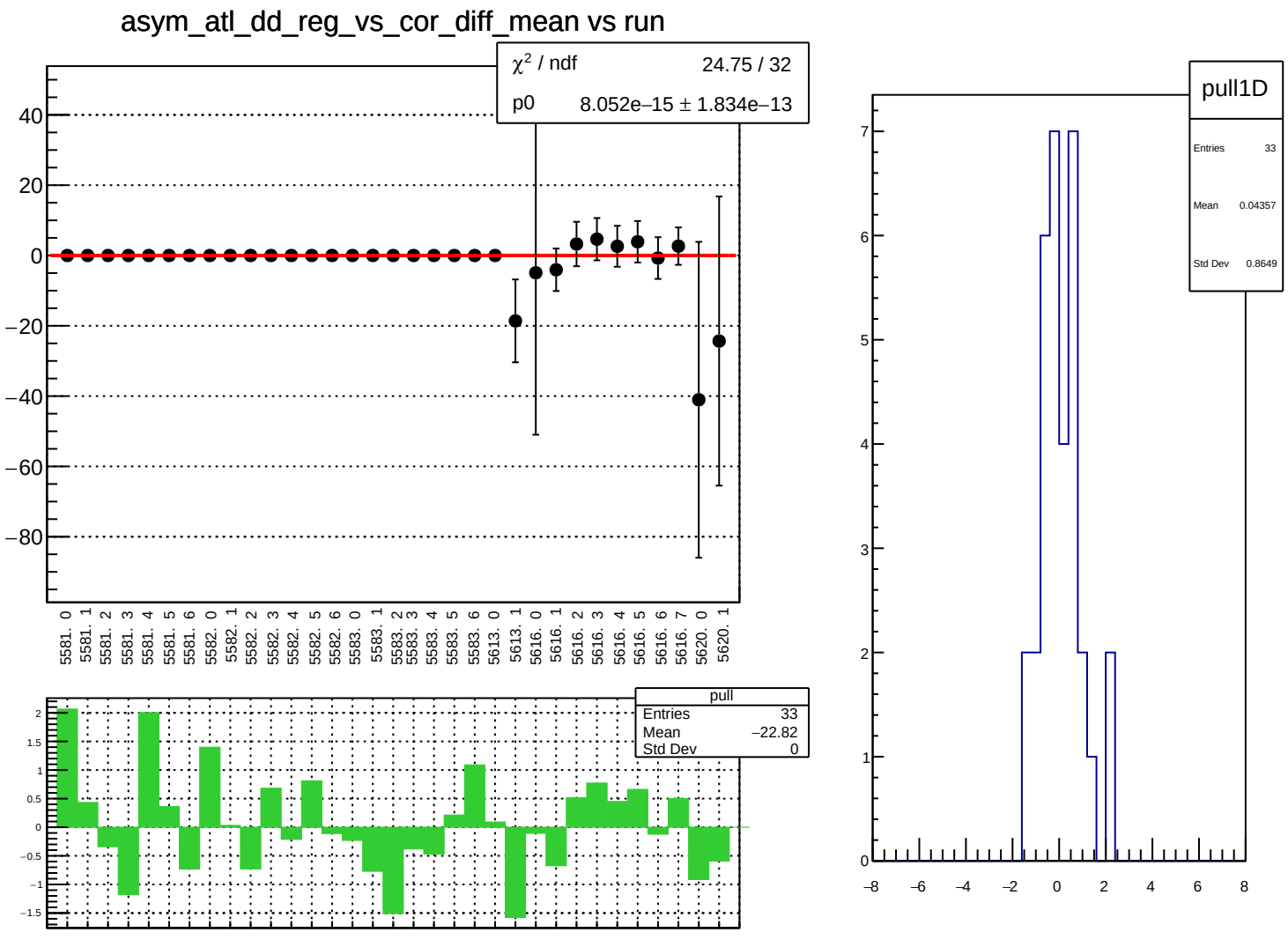

asym_atl_dd_eigen_dit_correction_mean vs run
χ² / ndf 32.5 / 32
p0 2883 ± 3308
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 141.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.02006
Std Dev 0.9922
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

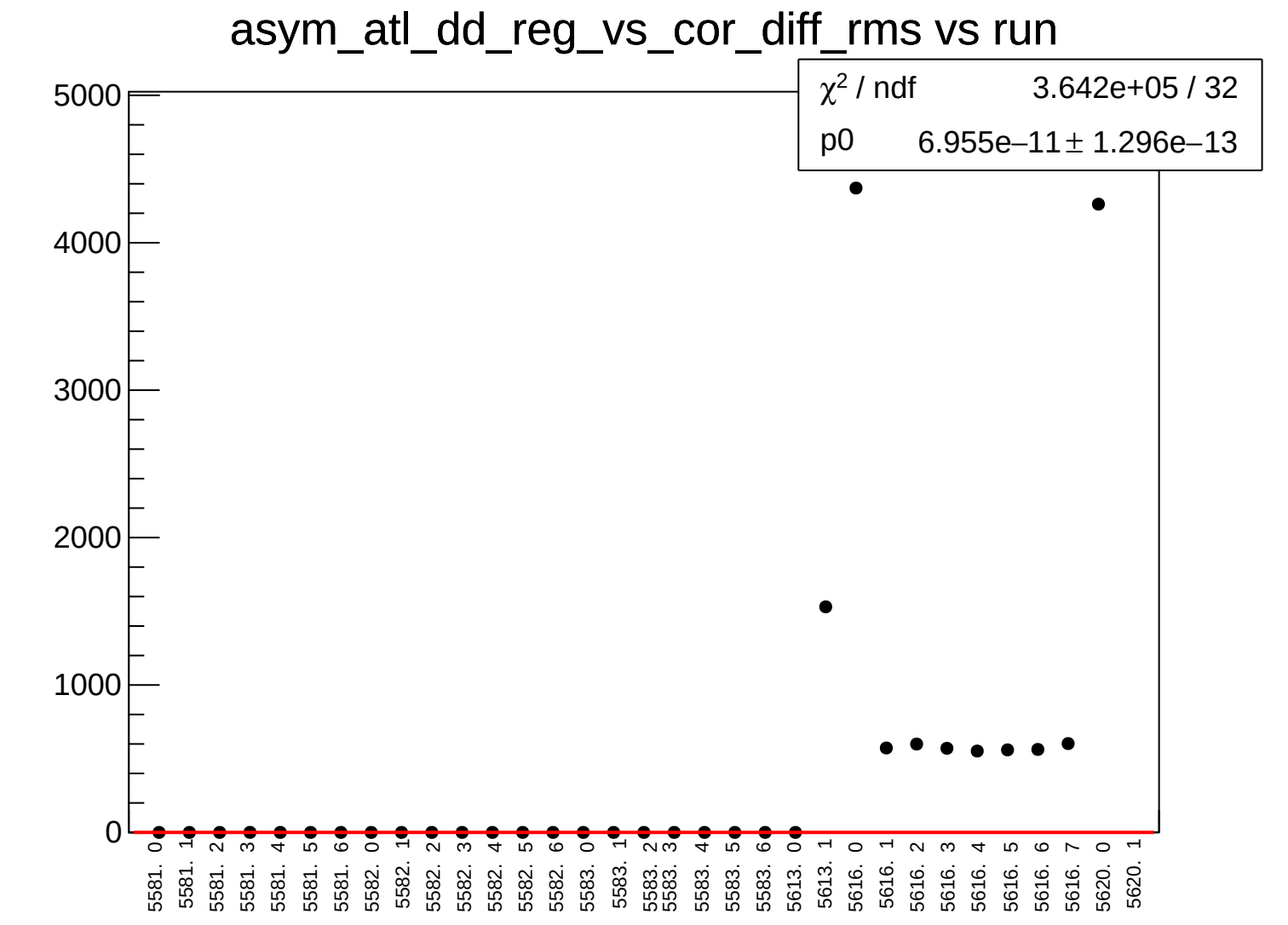

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1132 / 32
p0 1887 ± 2.339
2050
2000
1950
1900
1850
1800
1750
1700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

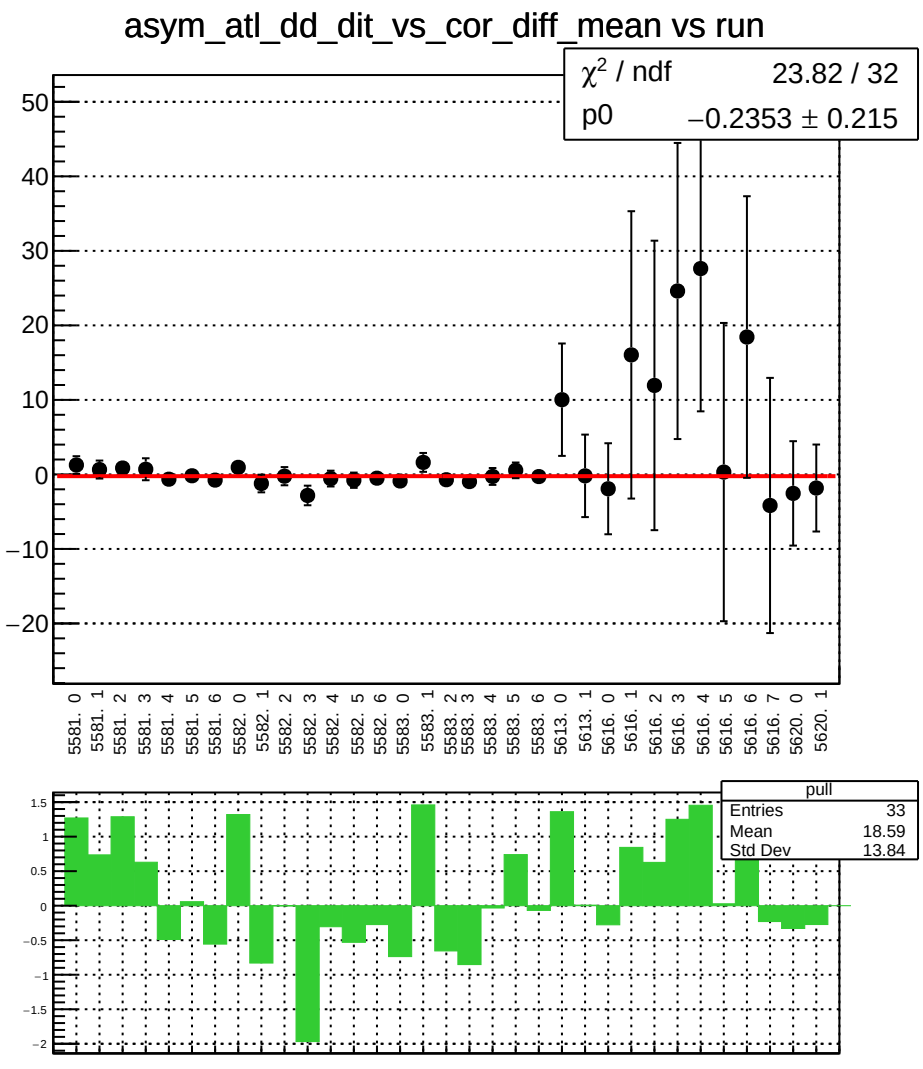

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 19.98 / 21
p0 2919 ± 5942
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 245.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

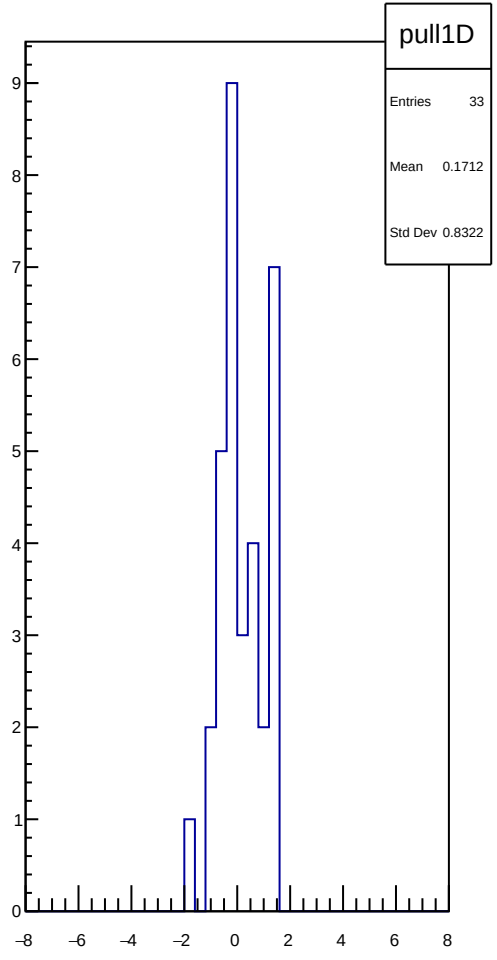

pull1D
Entries 22
Mean −0.001553
Std Dev 0.9529
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

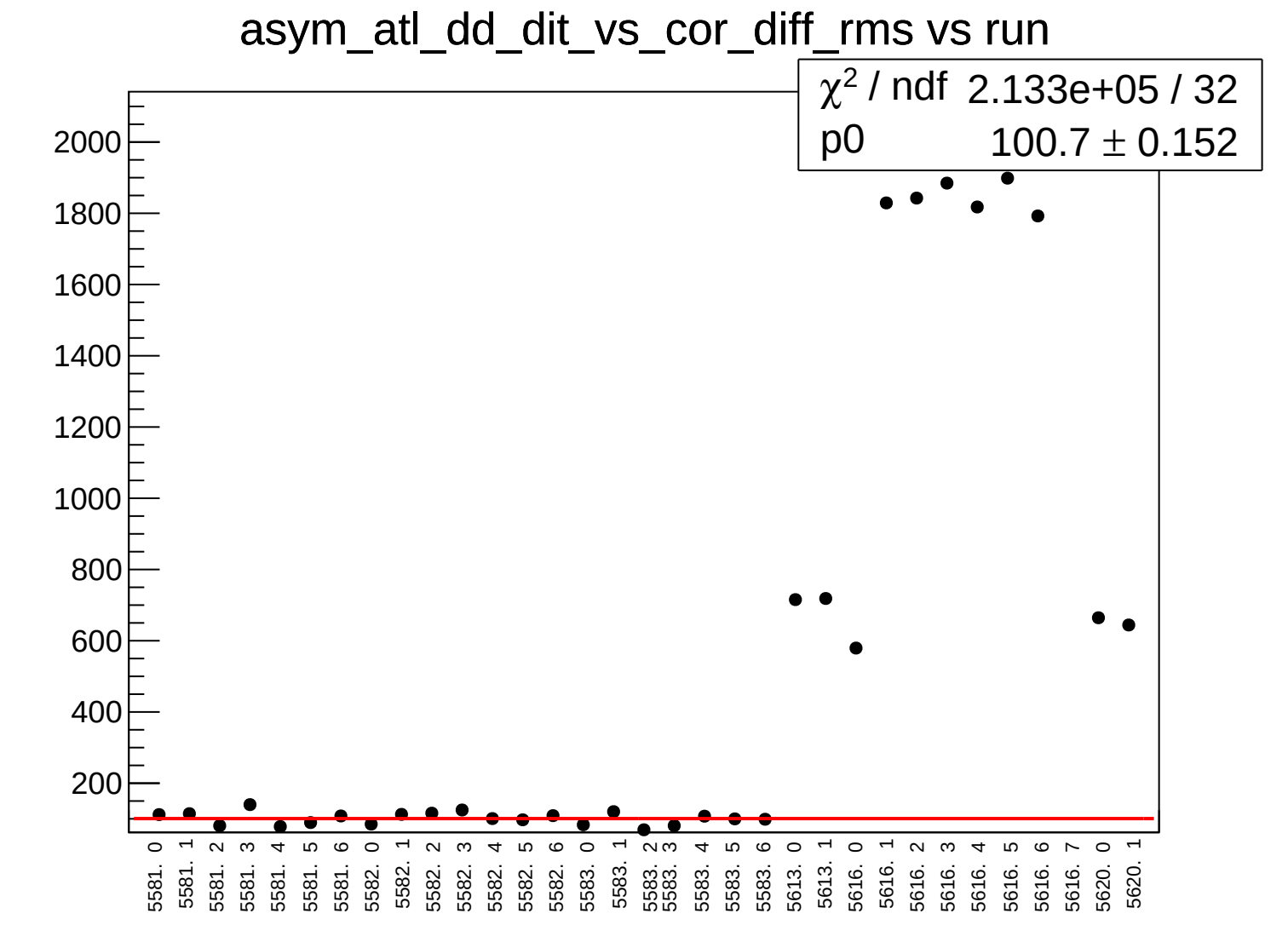

asym_atl_dd_rms vs run
χ^2 / ndf 1.122e+05 / 32
p0 2346 ± 3.194
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

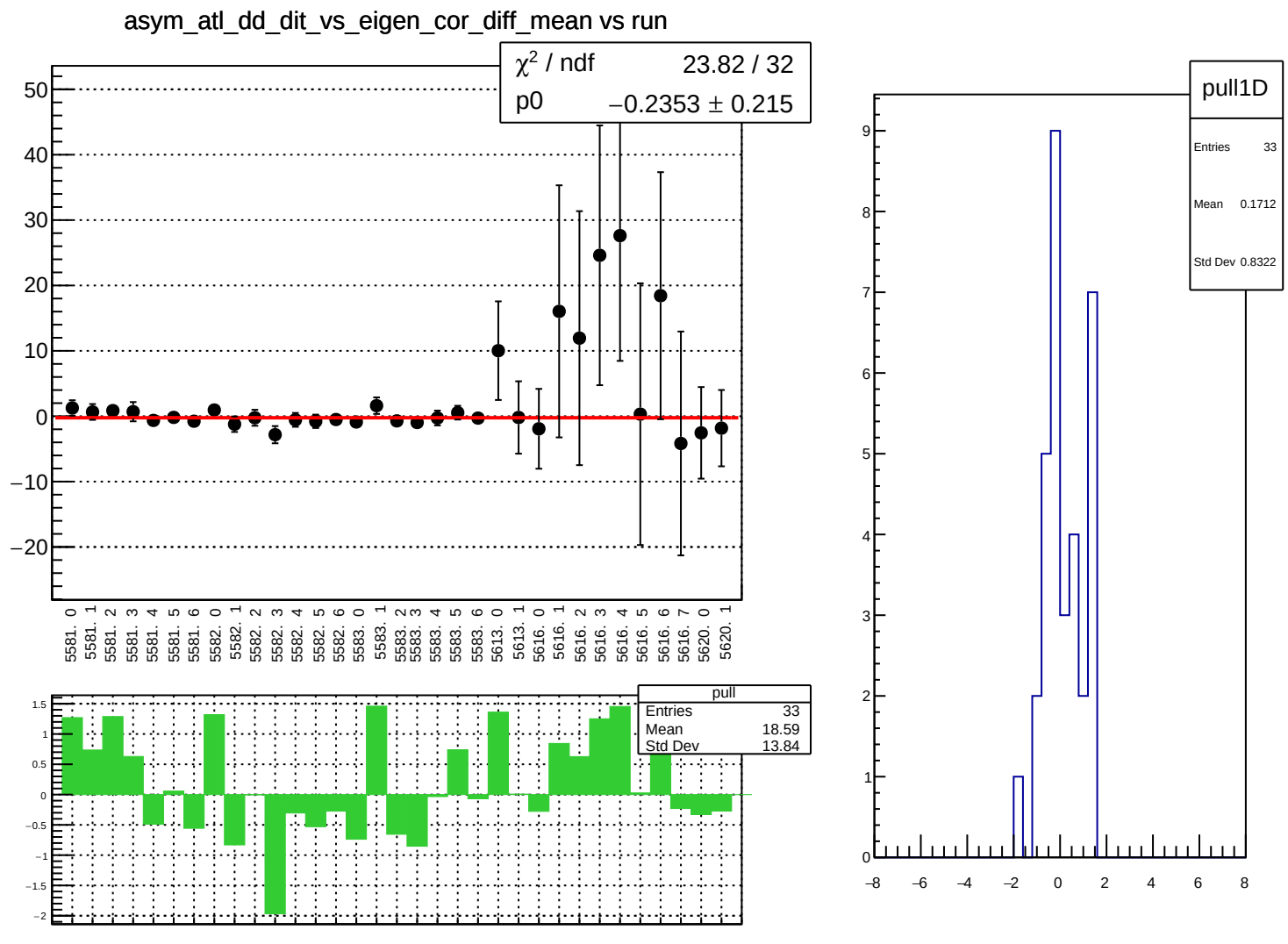

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.75 / 32
p0 8.052e−15 ± 1.834e−13
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −22.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.04357
Std Dev 0.8649
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

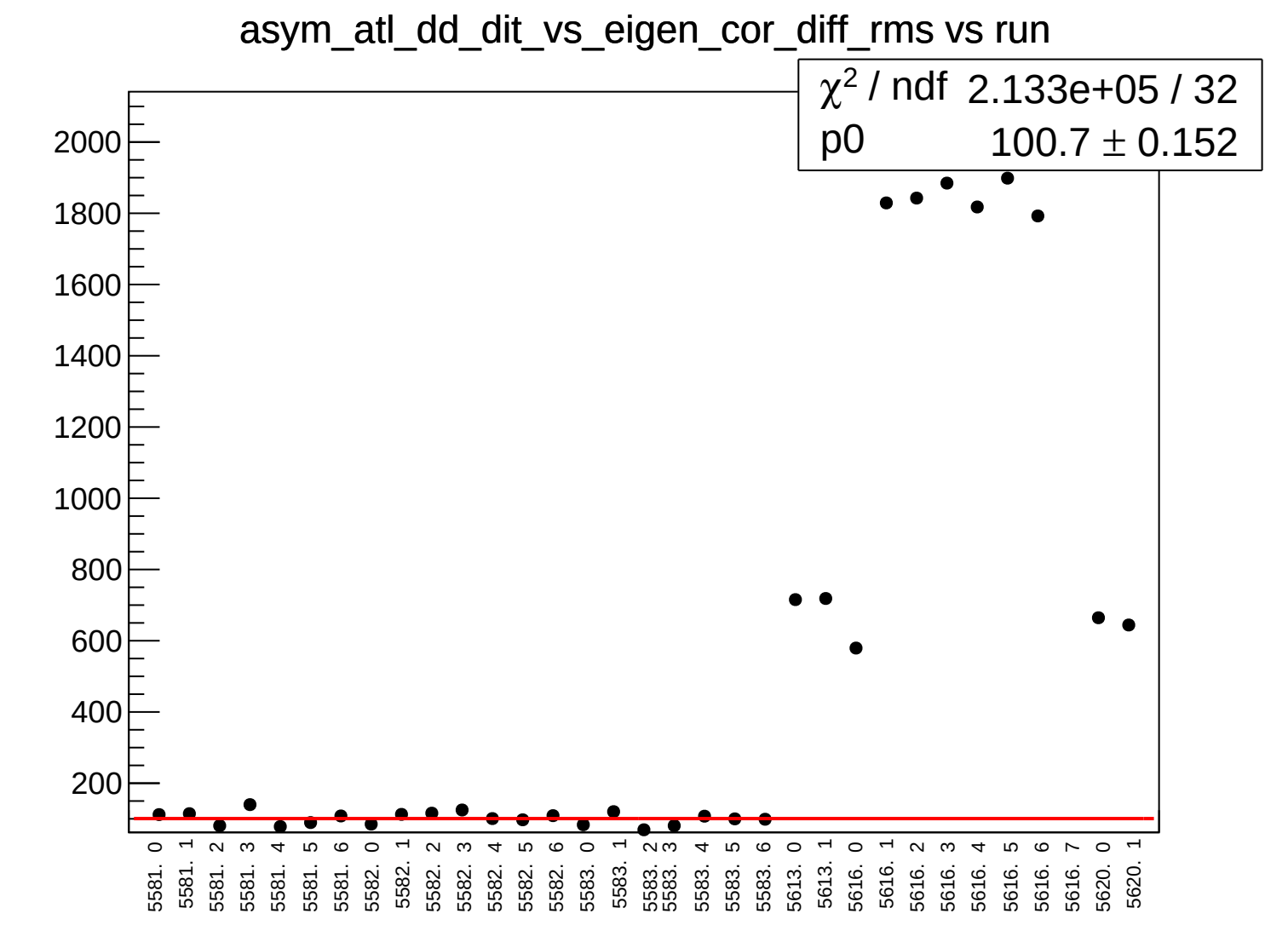

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.642e+05 / 32
p0 6.955e−11 ± 1.296e−13
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

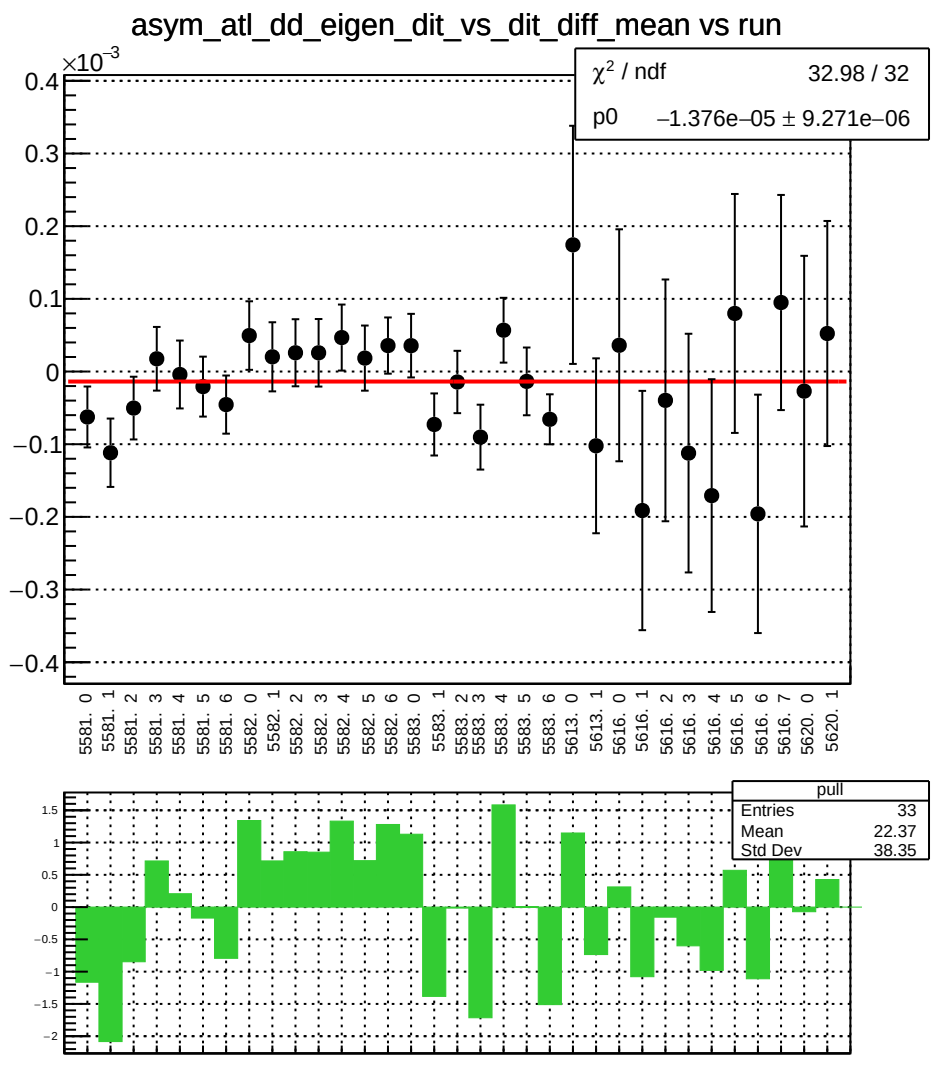

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 23.82 / 32
p0 −0.2353 ± 0.215
pull
Entries 33
Mean 18.59
Std Dev 13.84

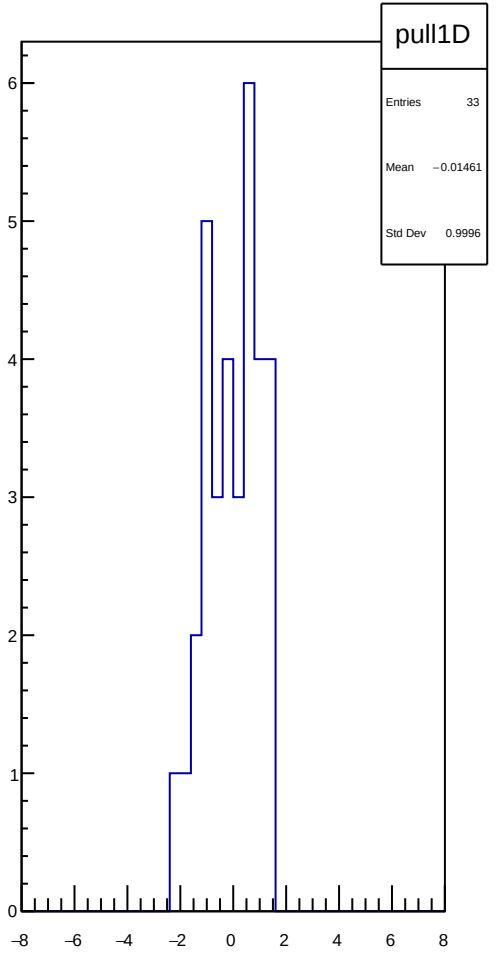

pull1D
Entries 33
Mean 0.1712
Std Dev 0.8322

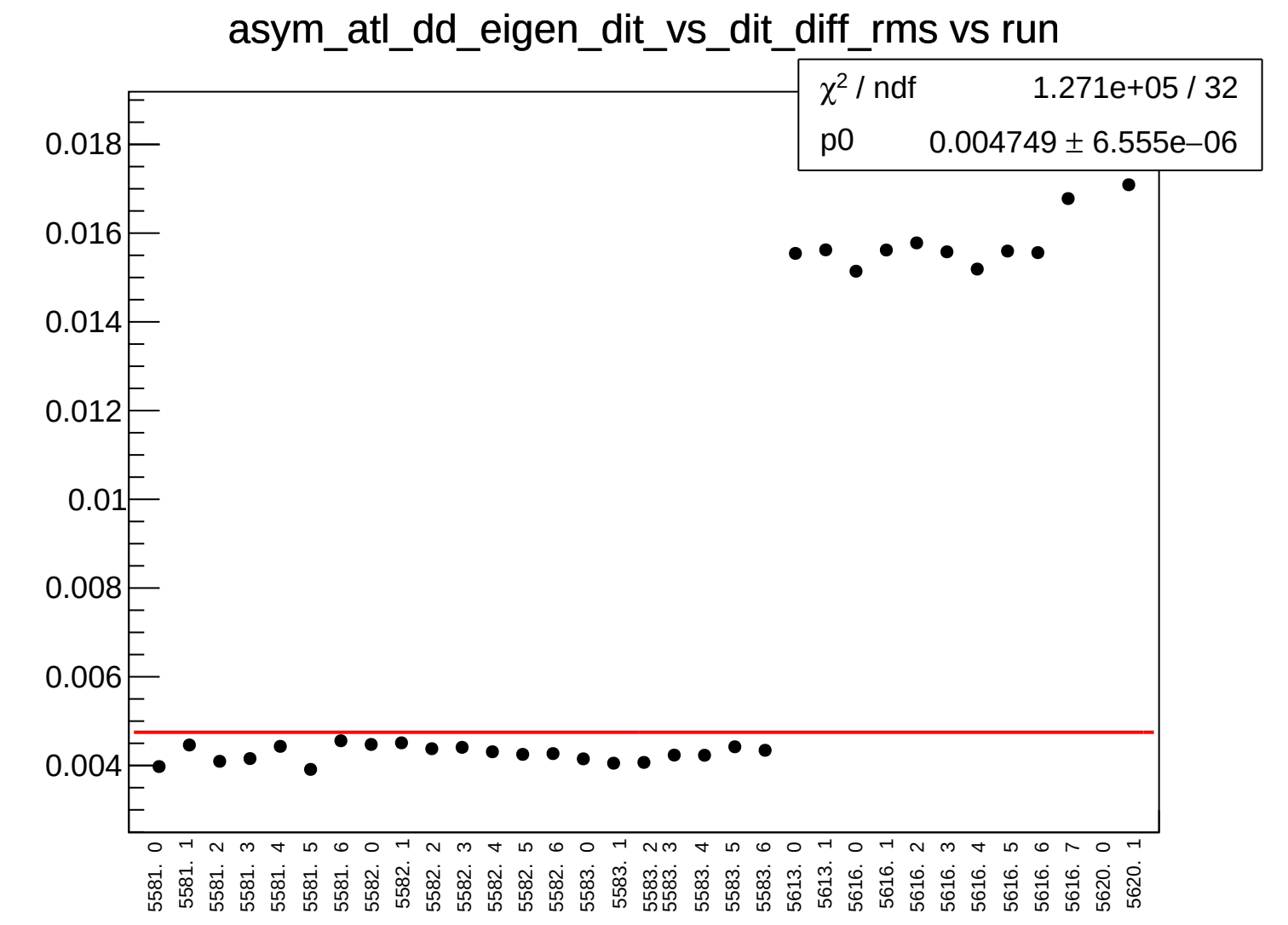

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.133e+05 / 32
p0 100.7 ± 0.152
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

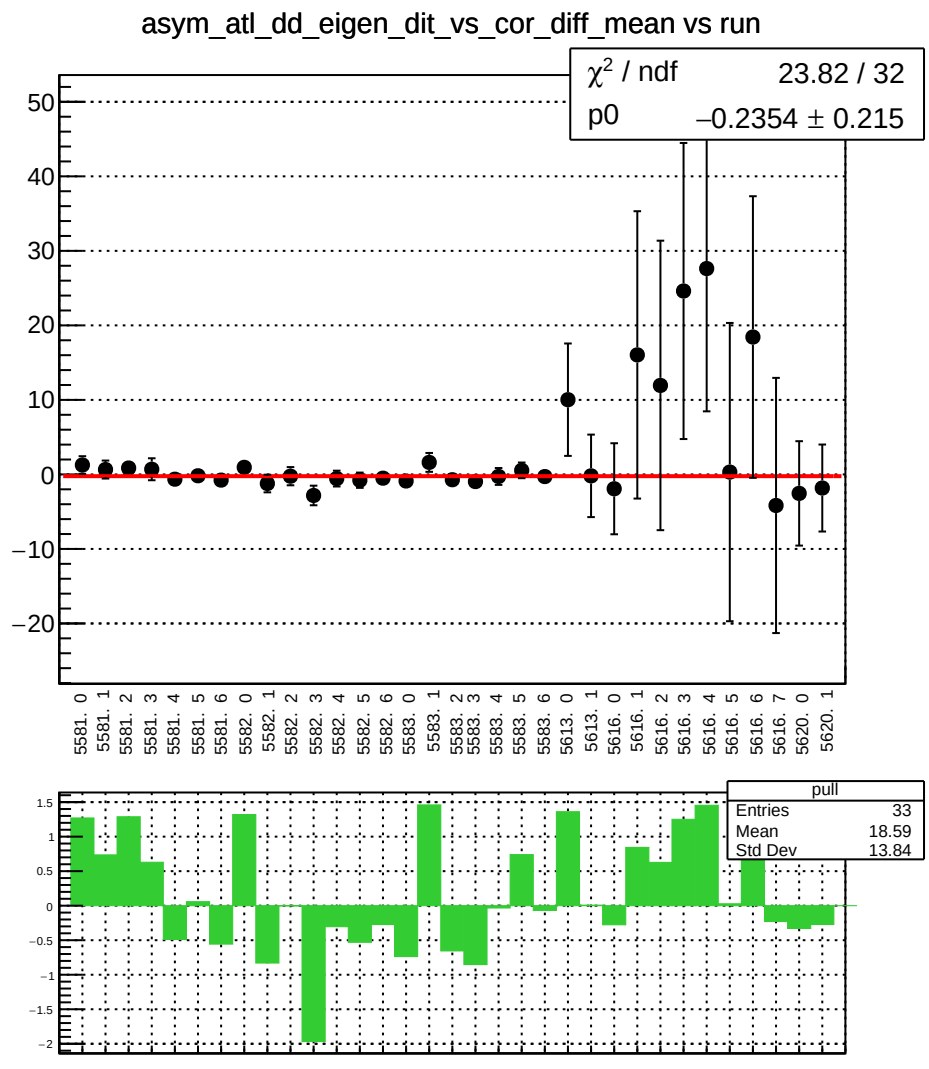

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.82 / 32
p0 −0.2353 ± 0.215
pull
Entries 33
Mean 18.59
Std Dev 13.84
pull1D
Entries 33
Mean 0.1712
Std Dev 0.8322

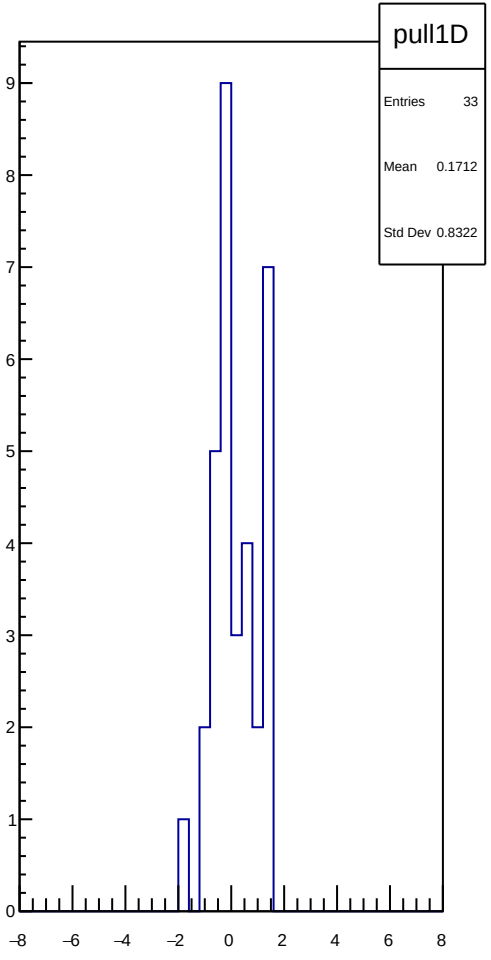

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.133e+05 / 32
p0 100.7 ± 0.152
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

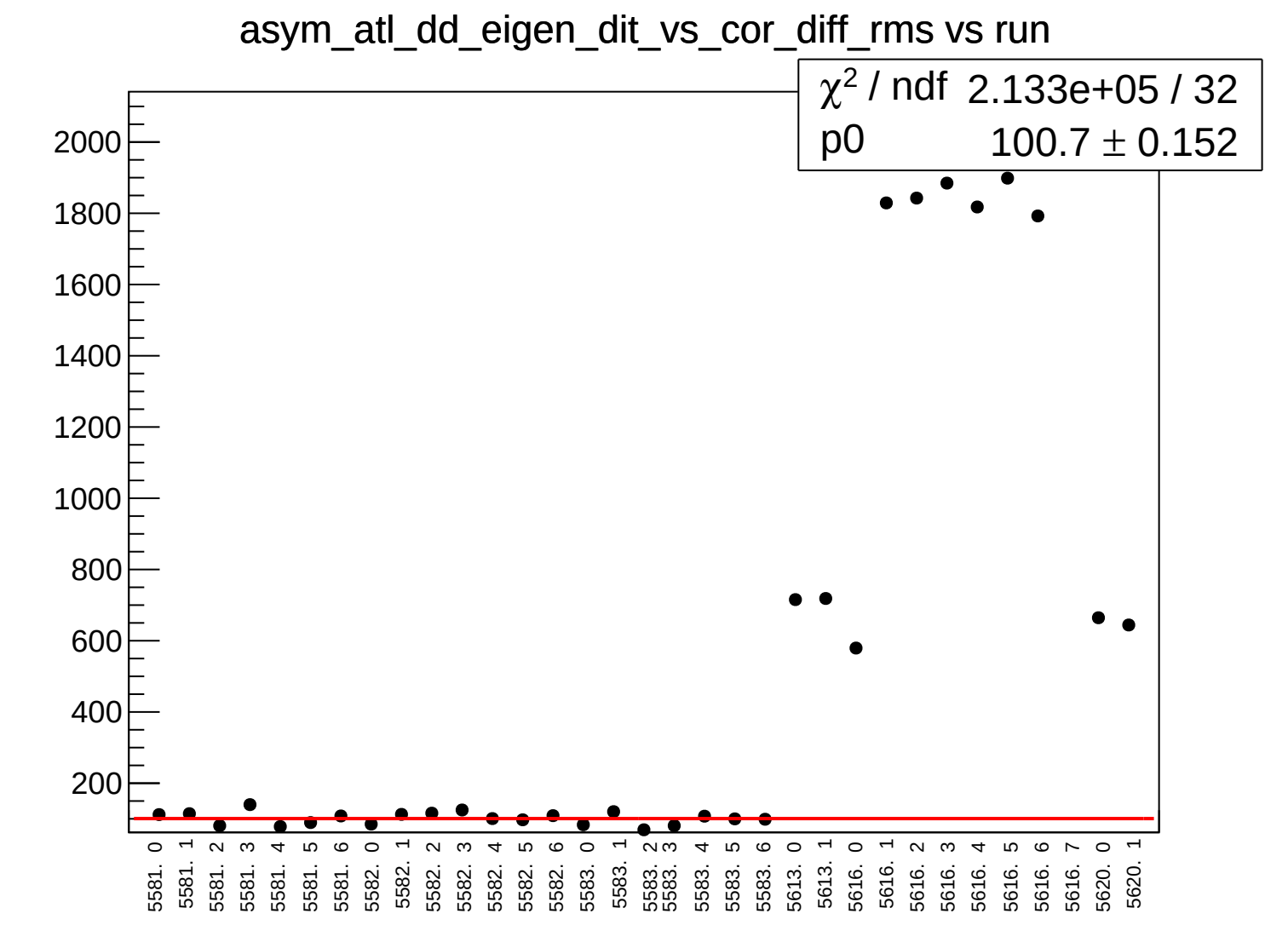

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.98 / 32
p0 −1.376e−05 ± 9.271e−06
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.37
Std Dev 38.35
1.5
1
0.5
0
−0.5
−1
−1.5
−2

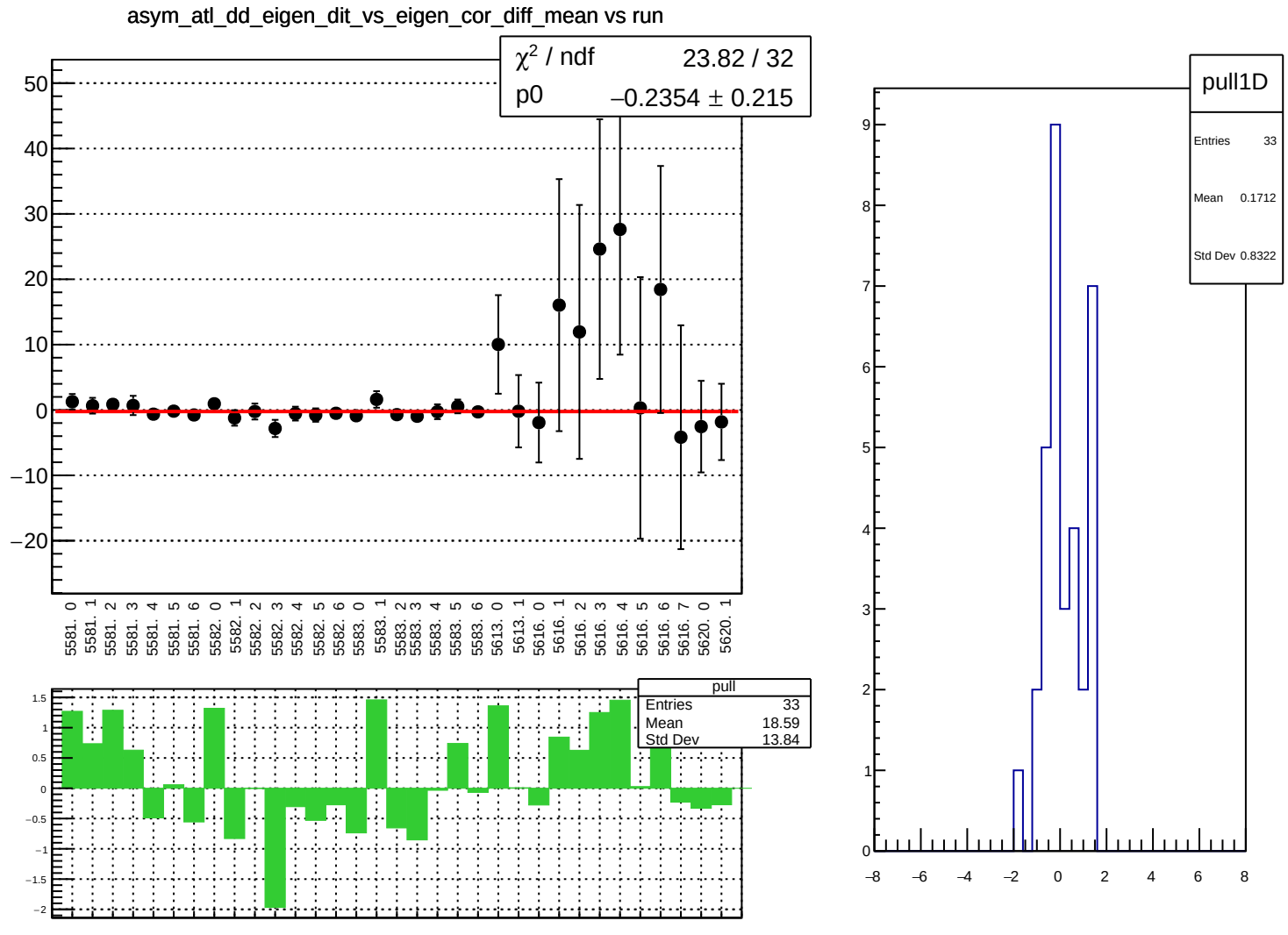

pull1D
Entries 33
Mean −0.01461
Std Dev 0.9996
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

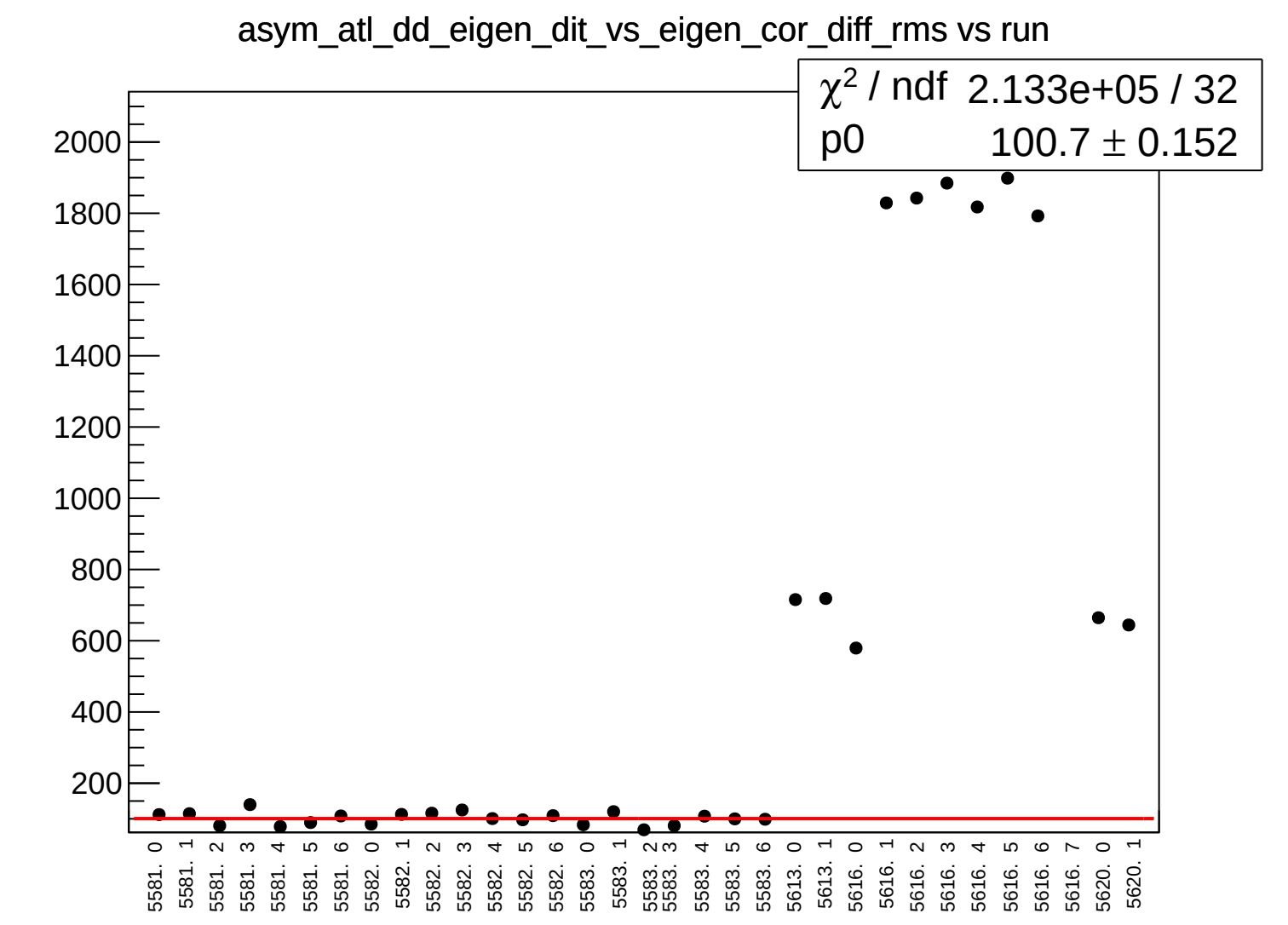

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.271e+05 / 32
p0 0.004749 ± 6.555e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

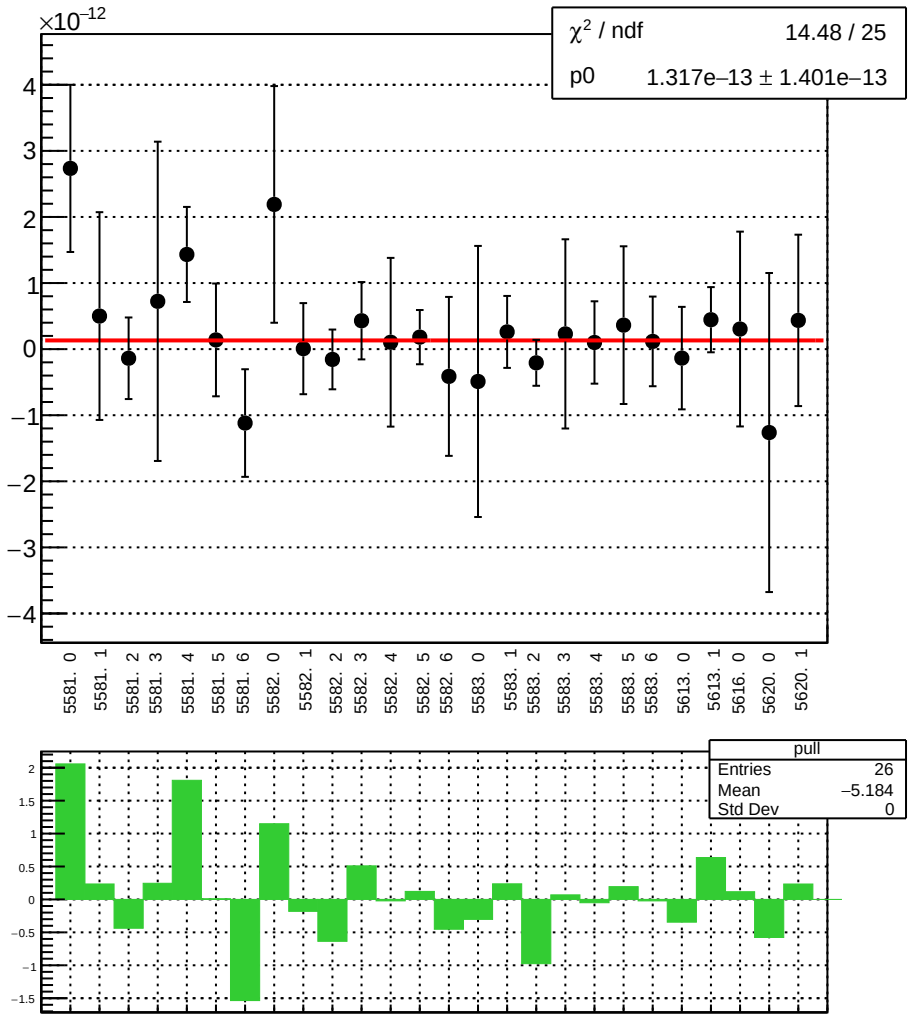

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.82 / 32
p0 −0.2354 ± 0.215
pull
Entries 33
Mean 18.59
Std Dev 13.84

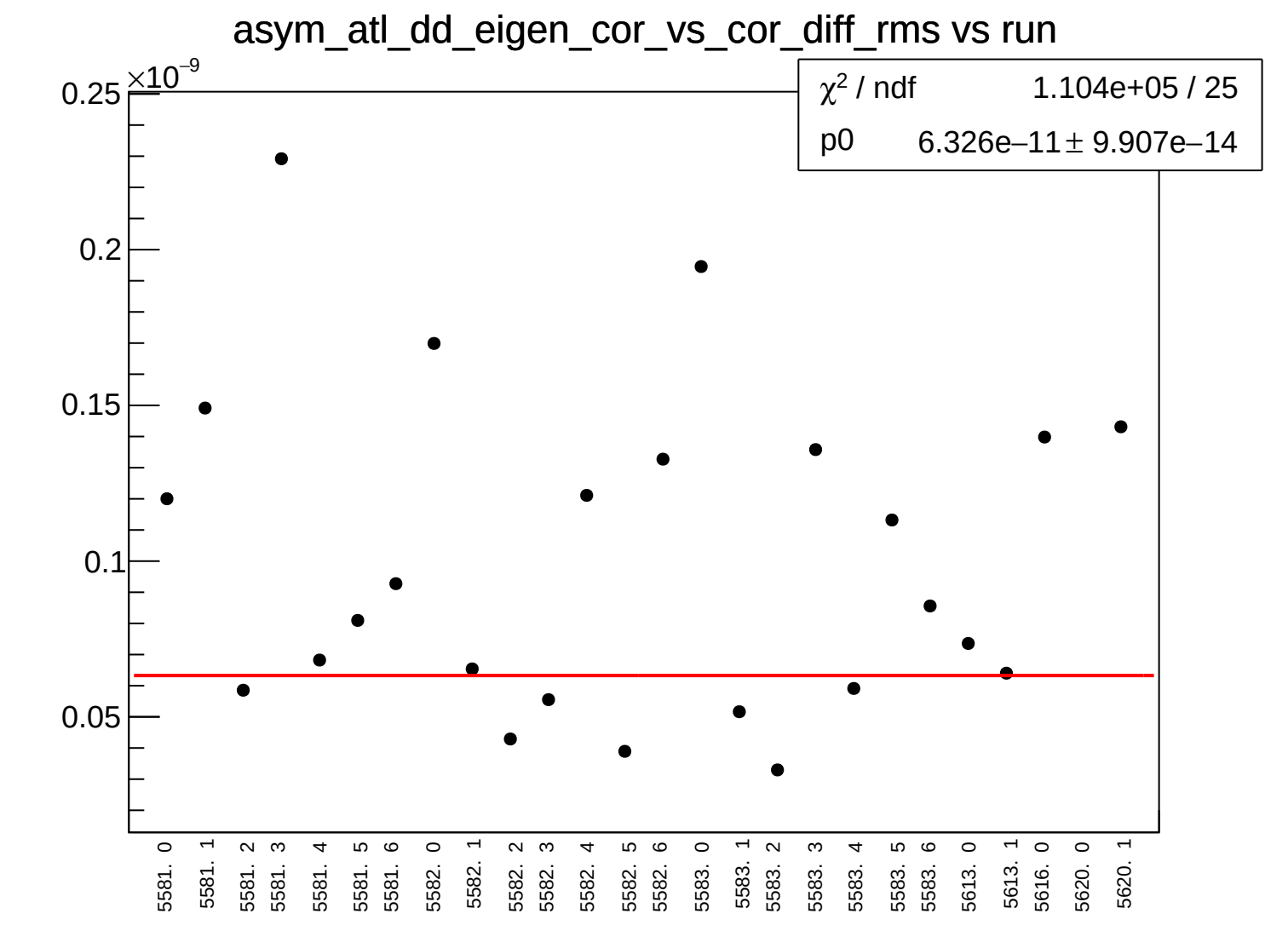

pull1D
Entries 33
Mean 0.1712
Std Dev 0.8322

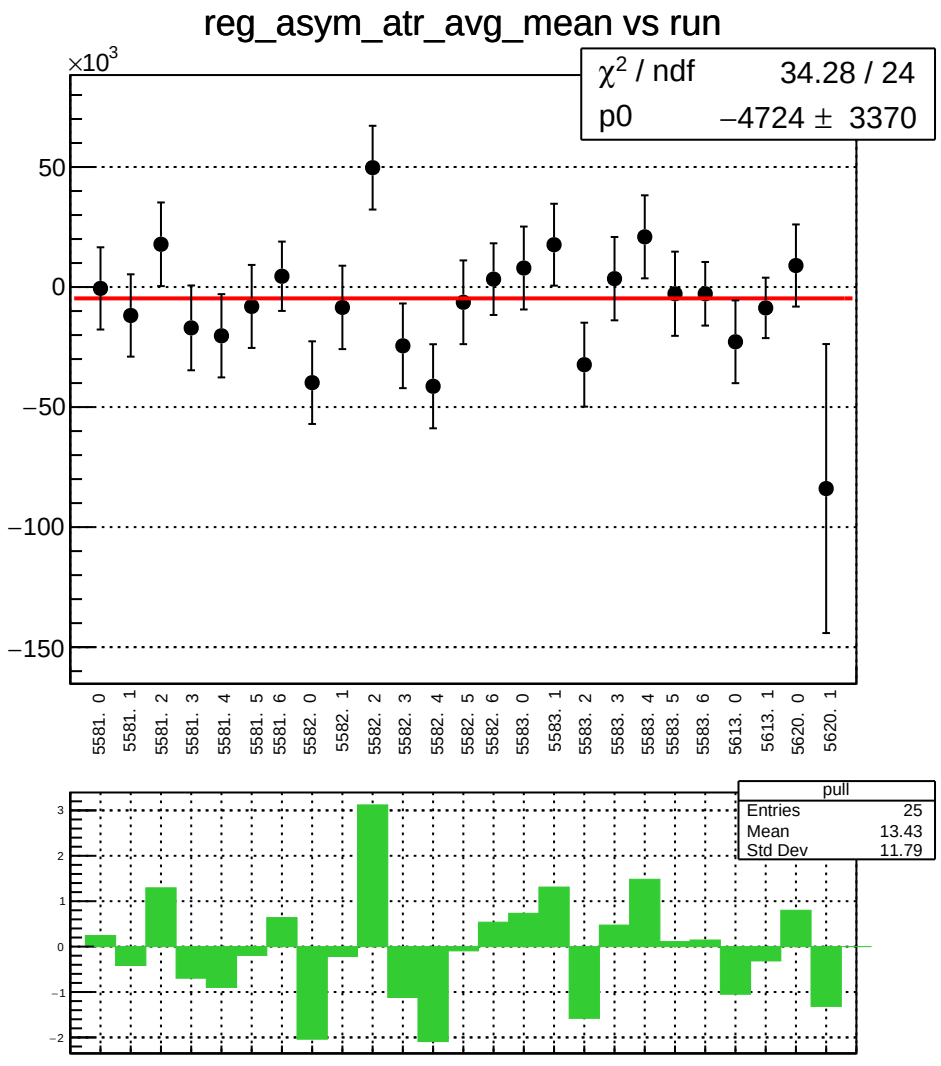

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.133e+05 / 32
p0 100.7 ± 0.152
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

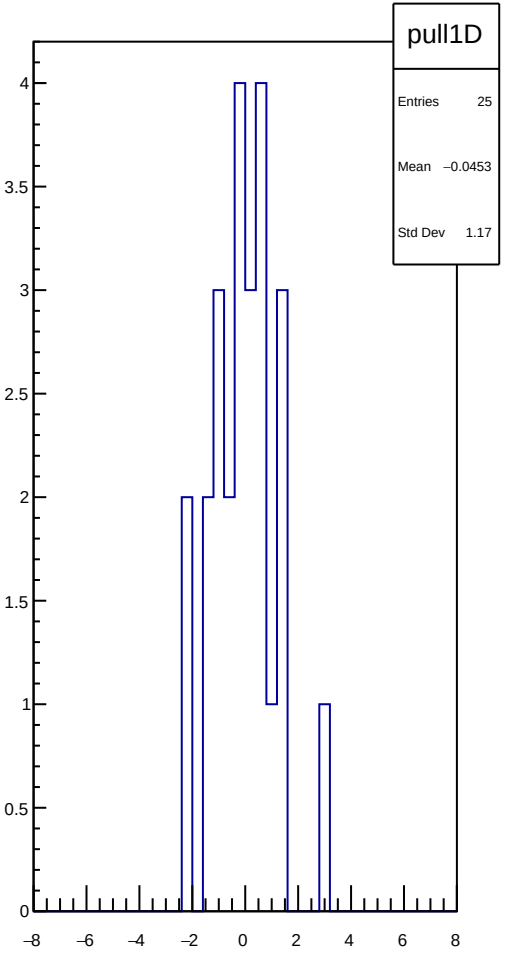

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.82 / 32
p0 −0.2354 ± 0.215
50
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.59
Std Dev 13.84
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.1712
Std Dev 0.8322
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

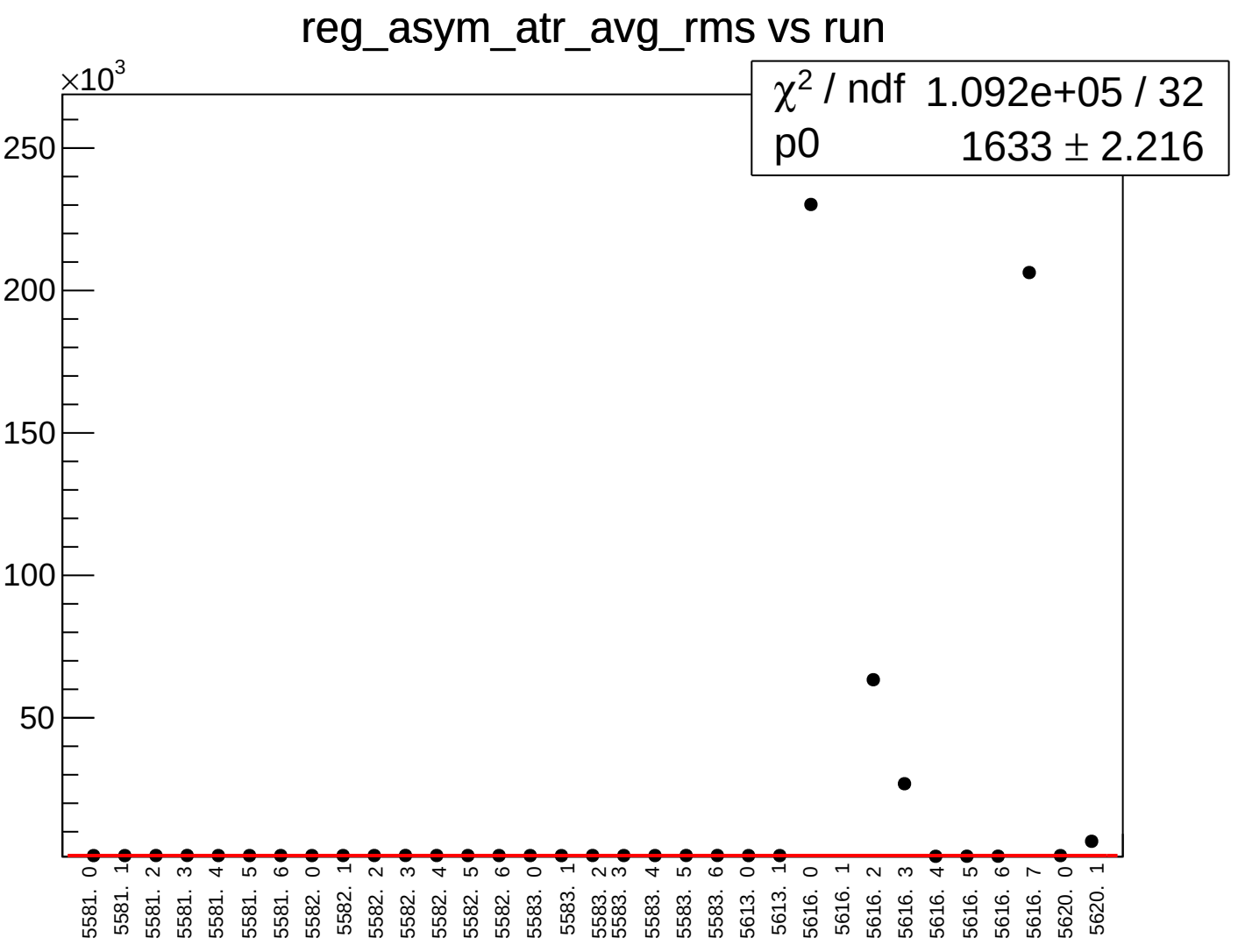

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.133e+05 / 32
p0 100.7 ± 0.152
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

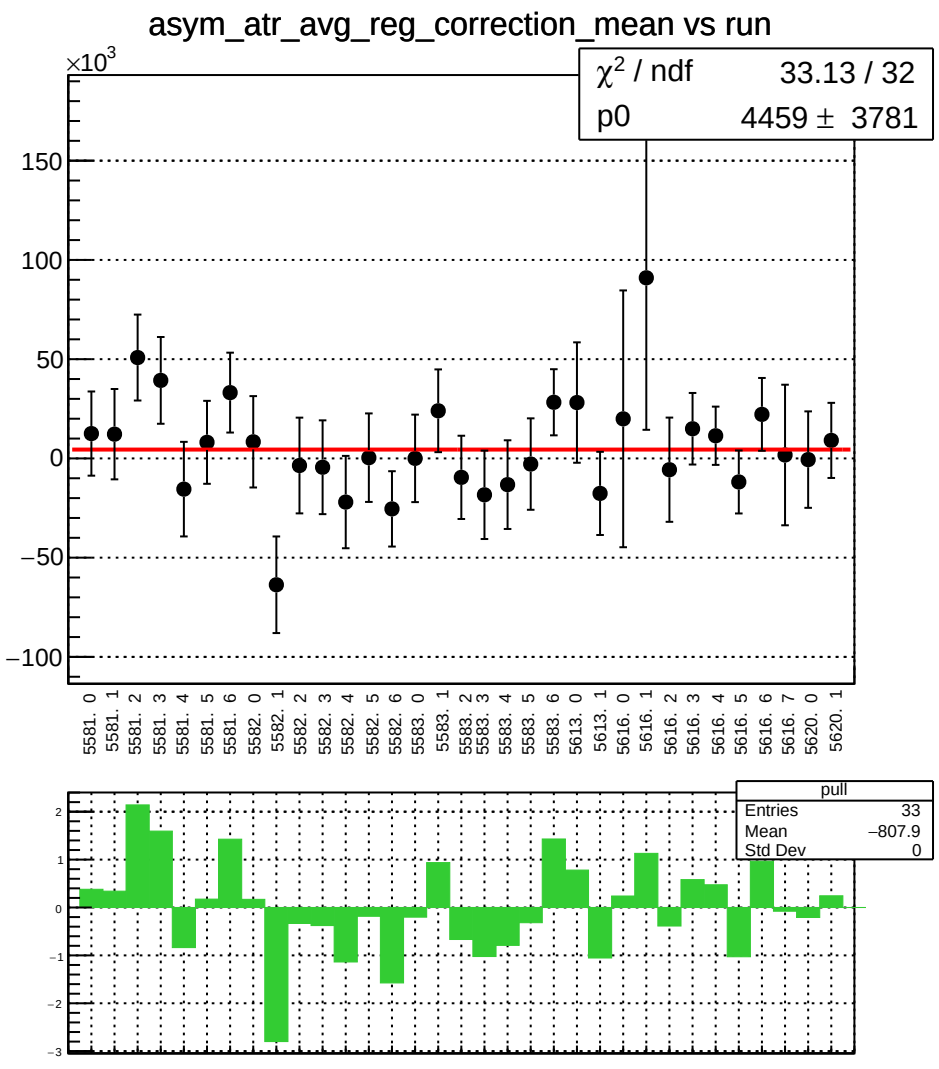

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 14.48 / 25
p0 1.317e−13 ± 1.401e−13
4
3
2
1
0
−1
−2
−3
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −5.184
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.08027
Std Dev 0.7419
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

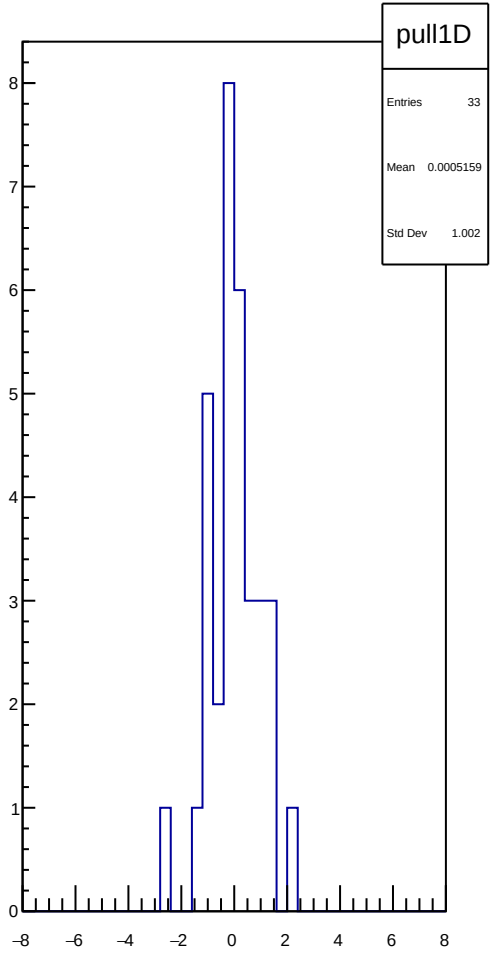

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.104e+05 / 25
p0 6.326e−11 ± 9.907e−14
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

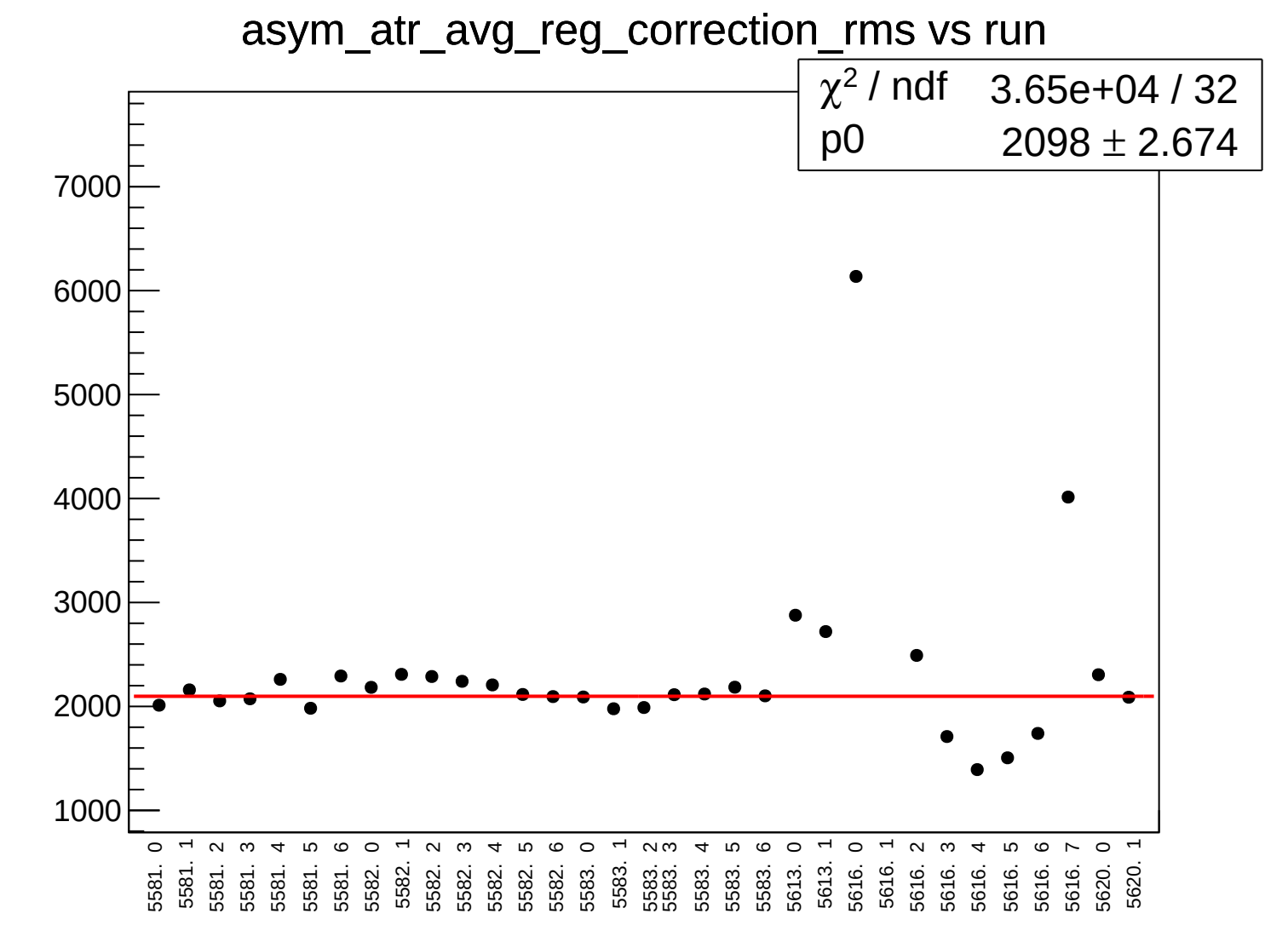

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 34.28 / 24
p0 −4724 ± 3370
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 13.43
Std Dev 11.79
3
2
1
0
−1
−2

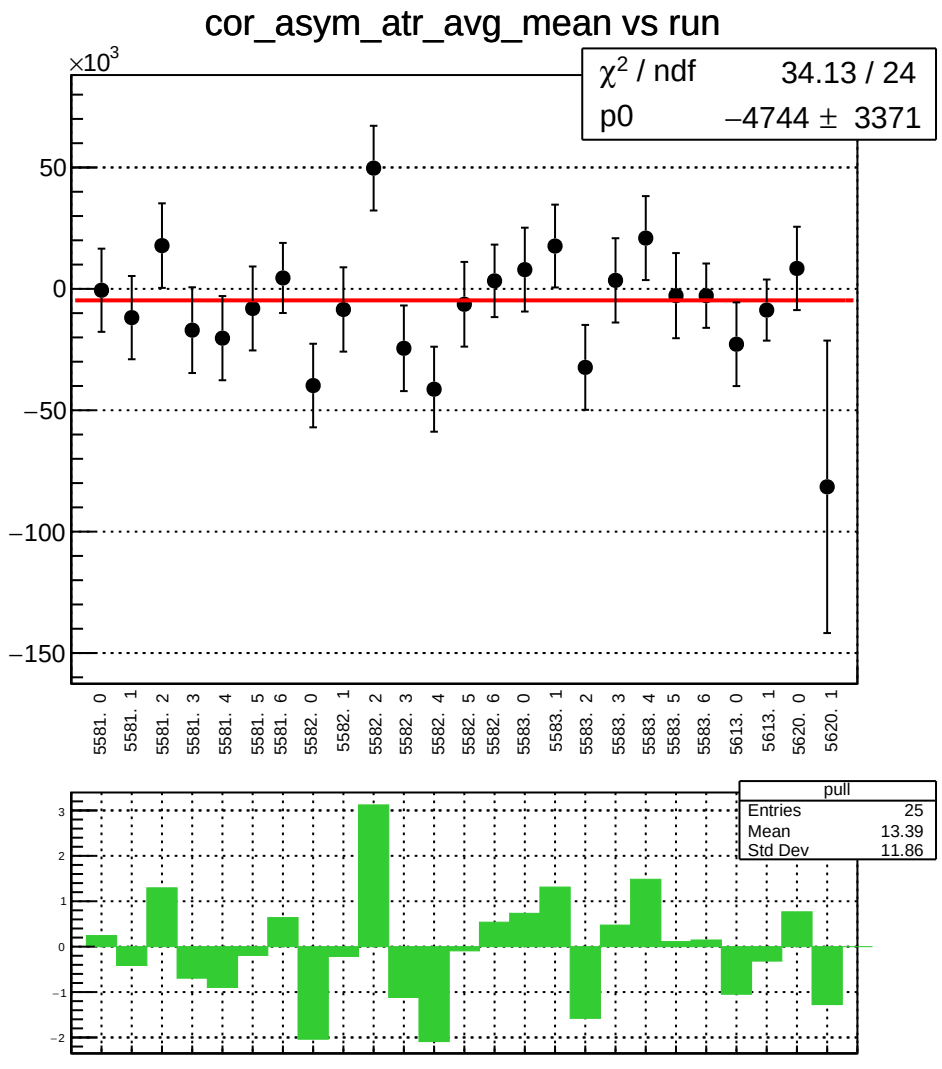

pull1D
Entries 25
Mean −0.0453
Std Dev 1.17
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

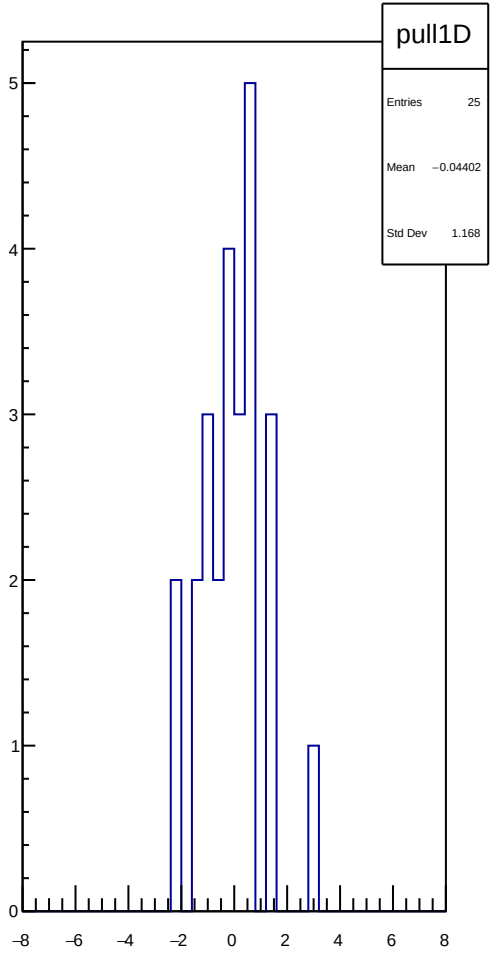

reg_asym_atr_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.092e+05 / 32
p0 1633 ± 2.216
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

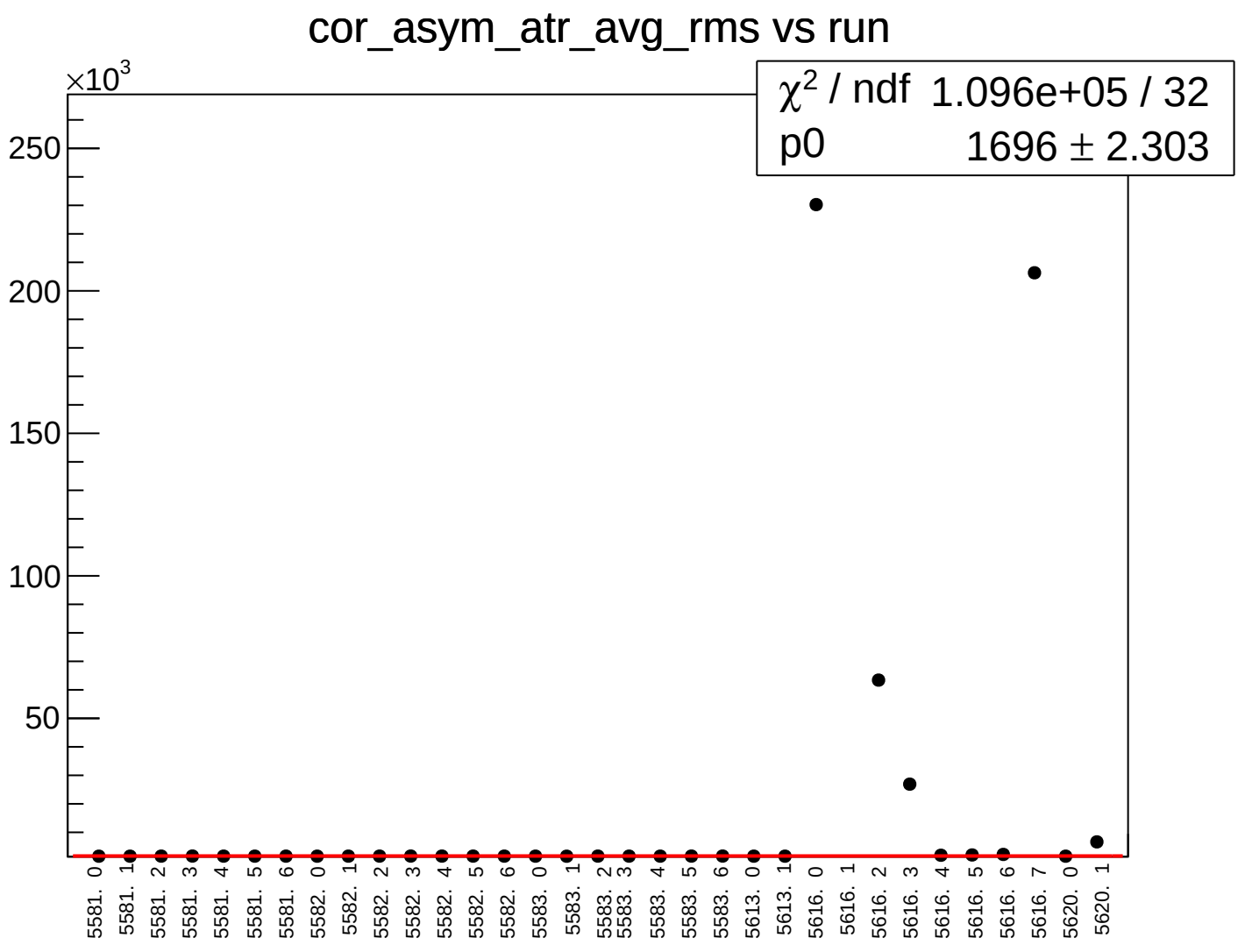

asym_atr_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 33.13 / 32
p0 4459 ± 3781
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −807.9
Std Dev 0
2
1
0
−1
−2
−3

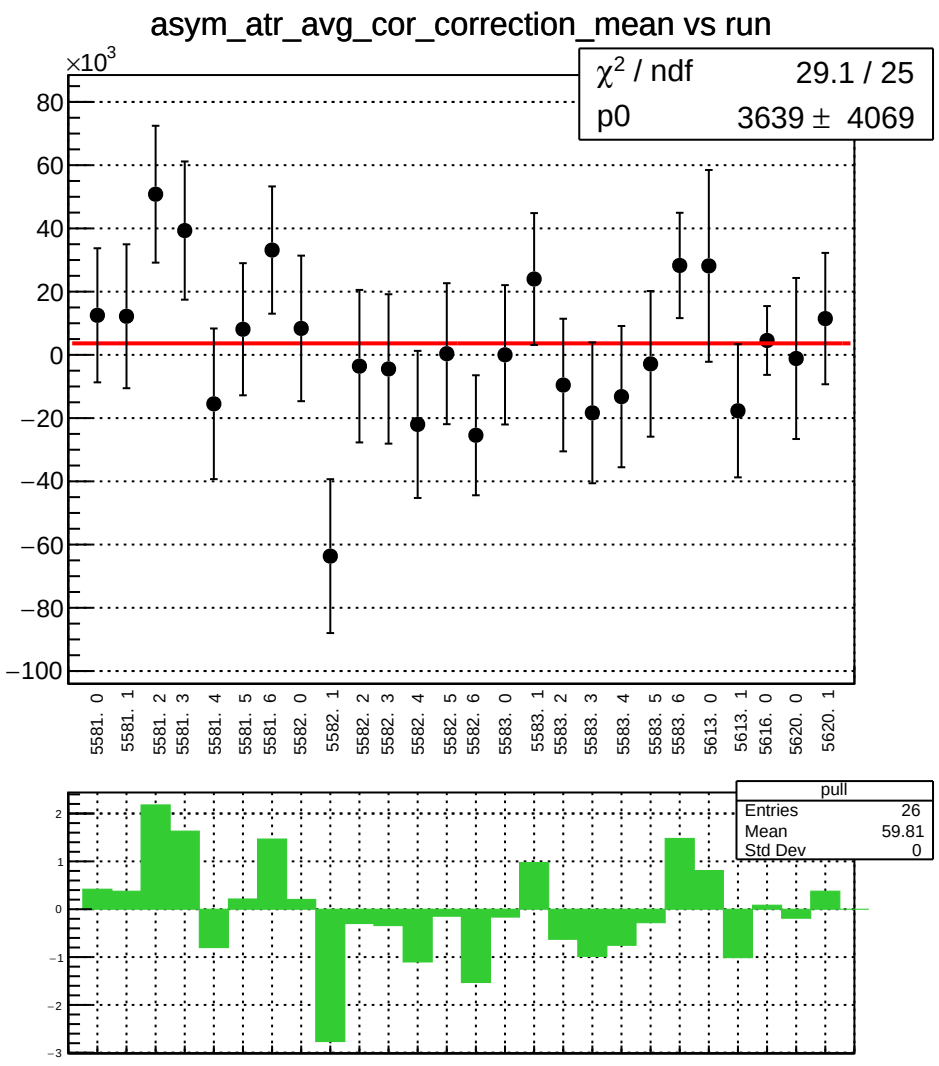

pull1D
Entries 33
Mean 0.0005159
Std Dev 1.002
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

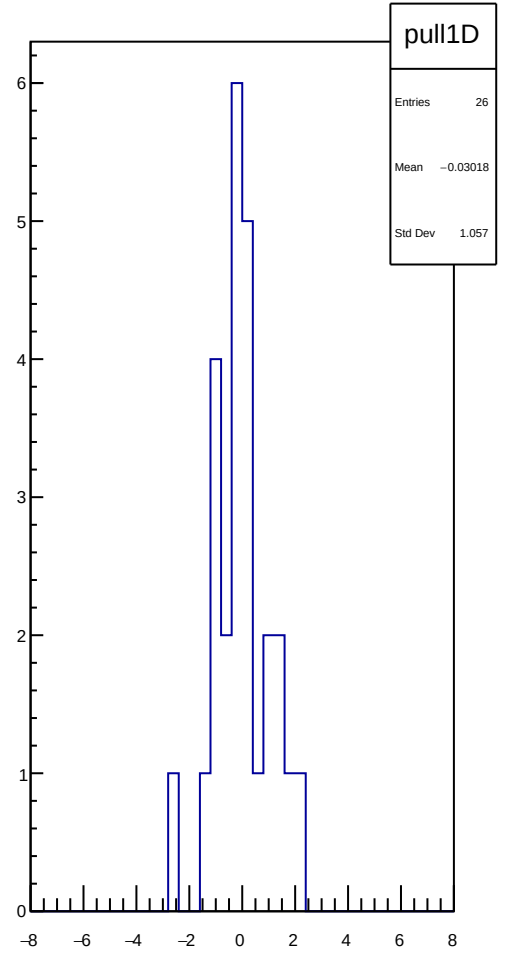

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 3.65e+04 / 32
p0 2098 ± 2.674
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

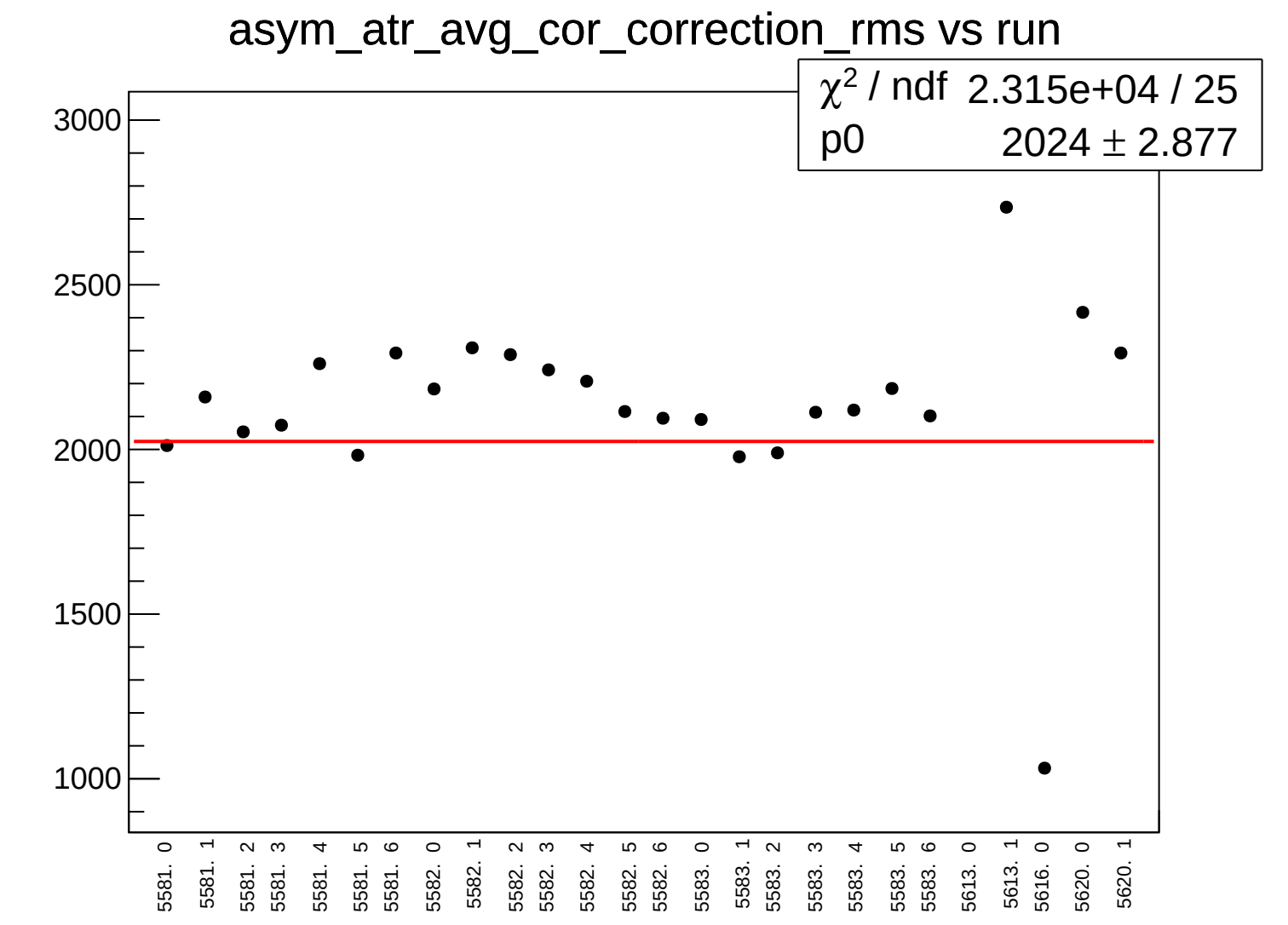

cor_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 34.13 / 24
p0 −4744 ± 3371
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 13.39
Std Dev 11.86
3
2
1
0
−1
−2

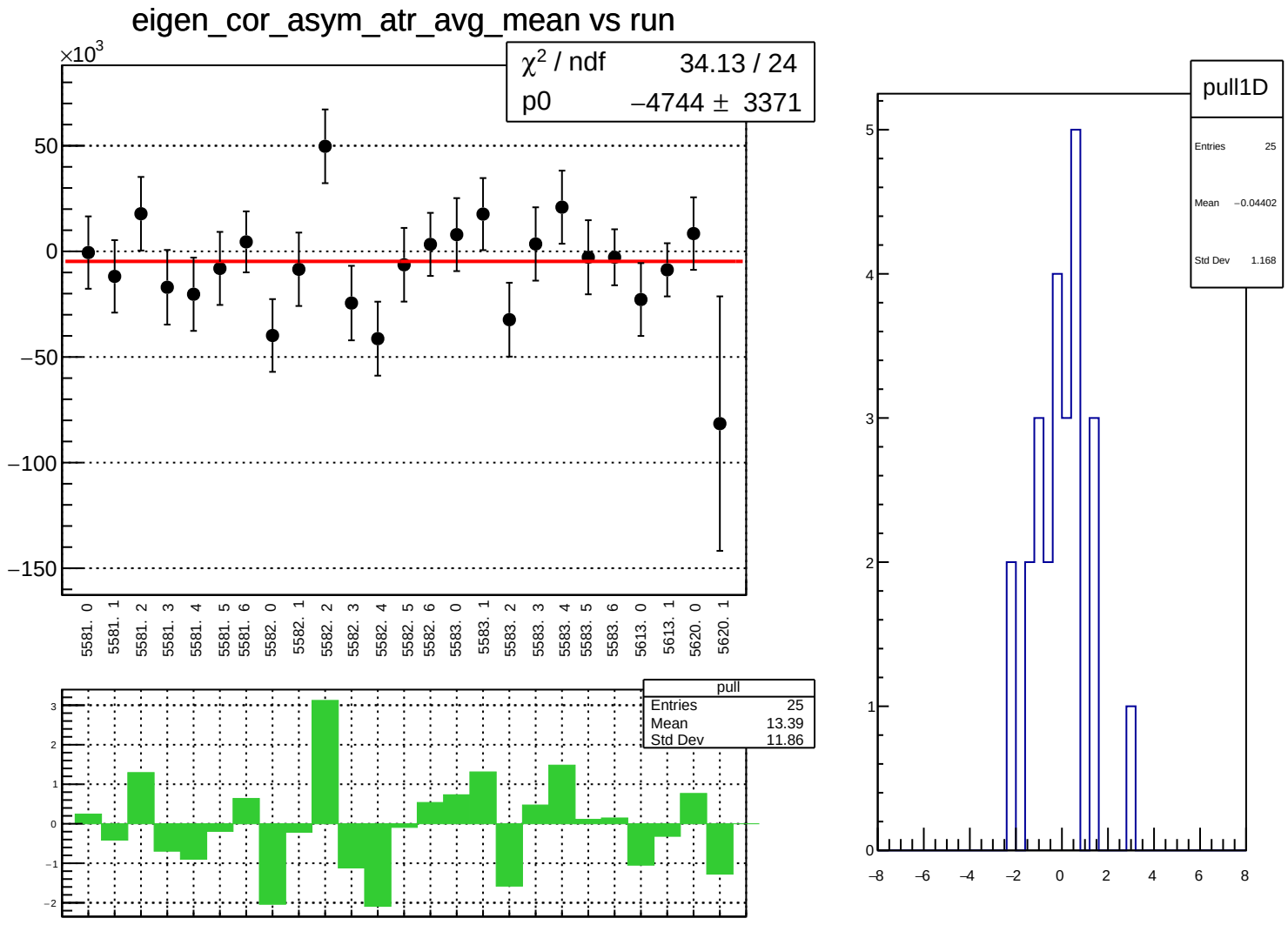

pull1D
Entries 25
Mean −0.04402
Std Dev 1.168
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

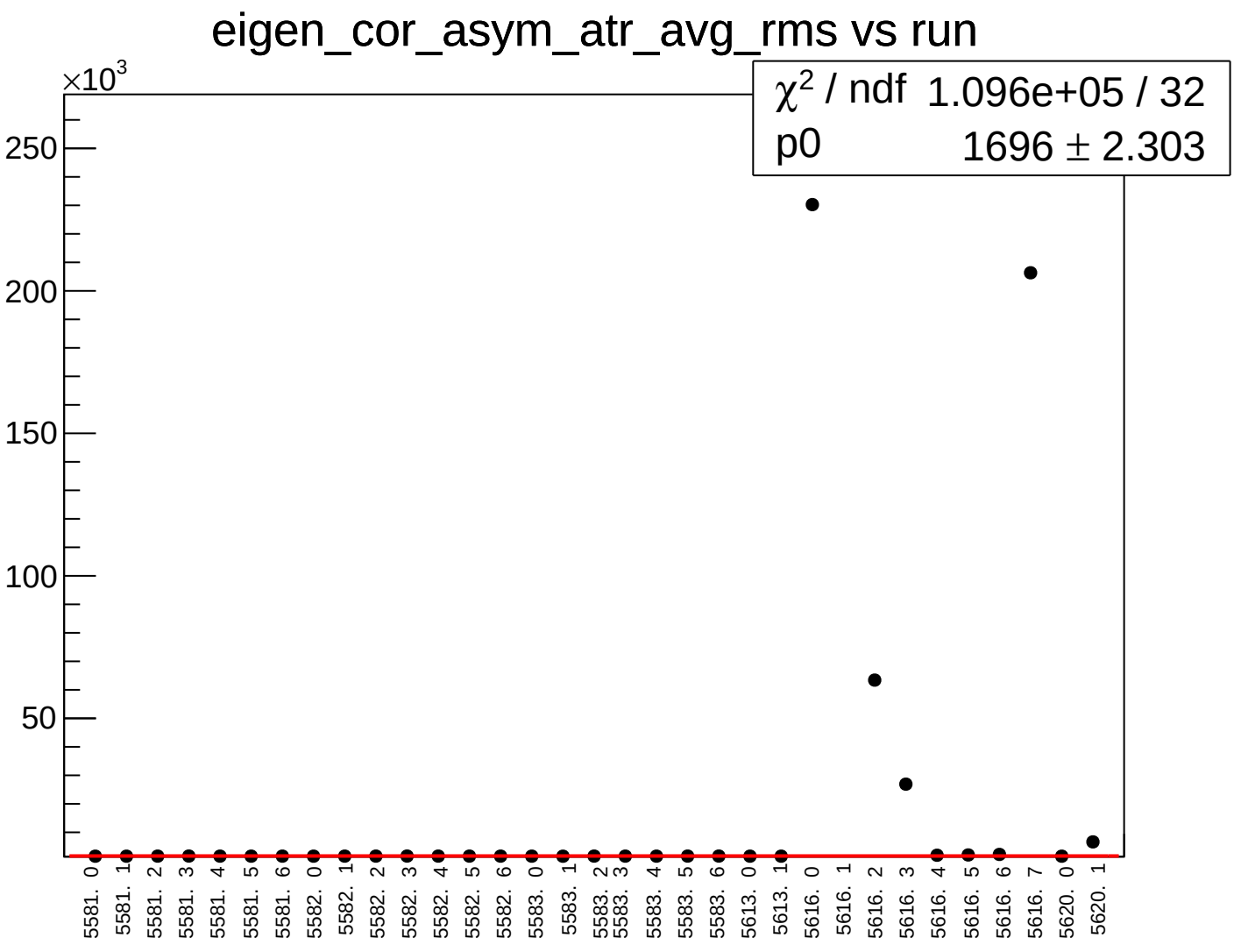

cor_asym_atr_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.096e+05 / 32
p0 1696 ± 2.303
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

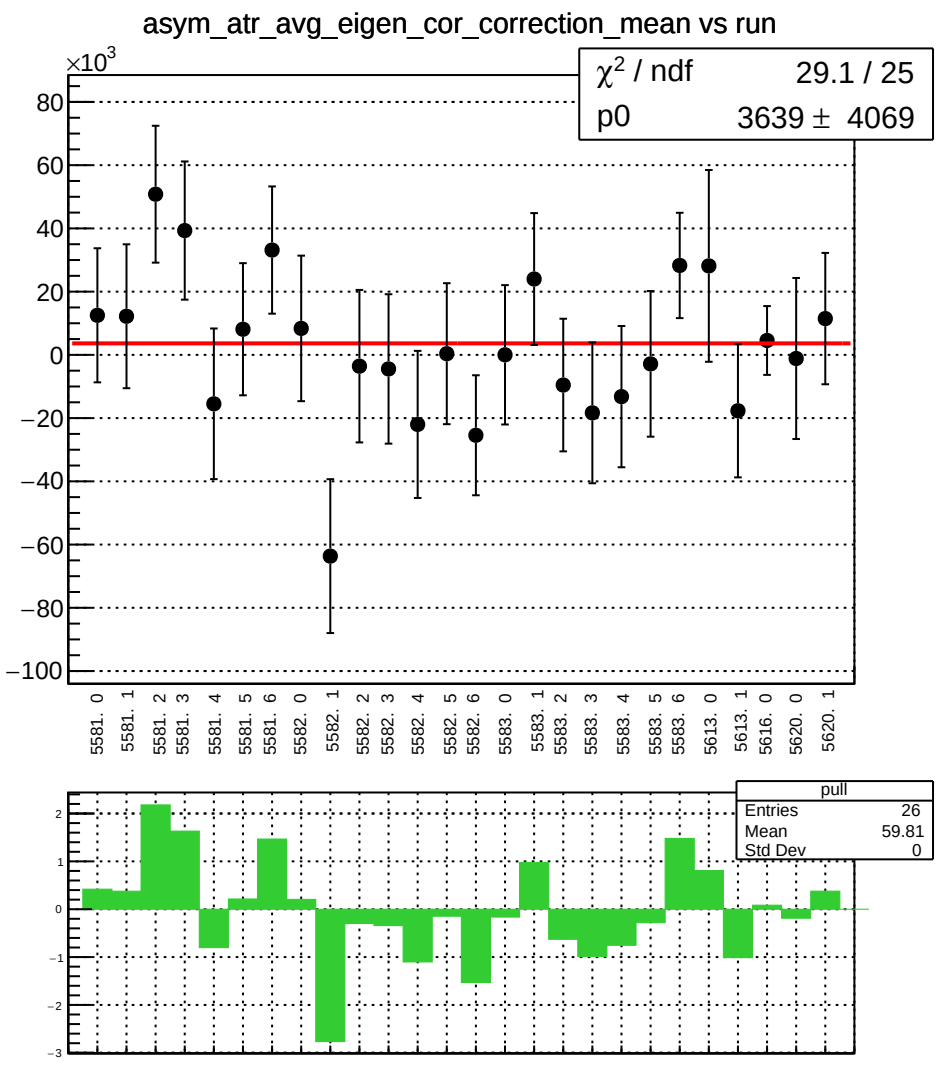

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 29.1 / 25
p0 3639 ± 4069
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 59.81
Std Dev 0
2
1
0
−1
−2
−3

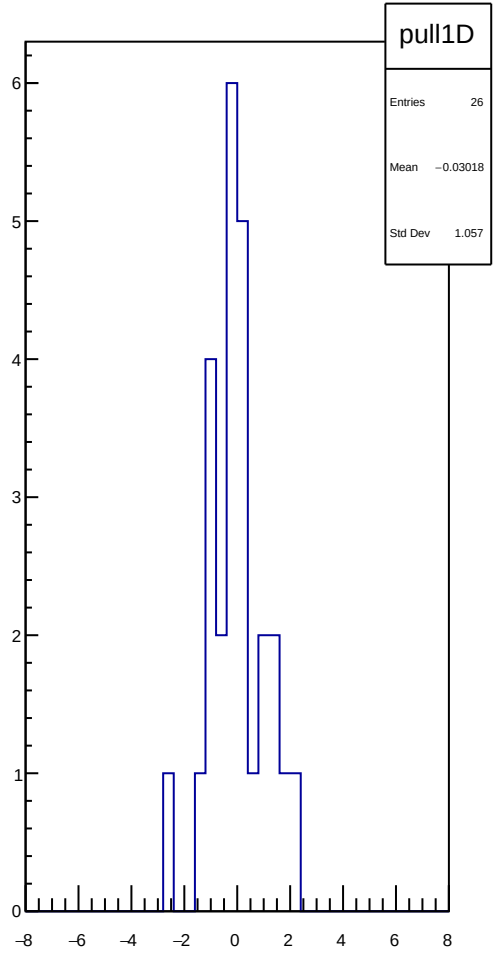

pull1D
Entries 26
Mean −0.03018
Std Dev 1.057
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

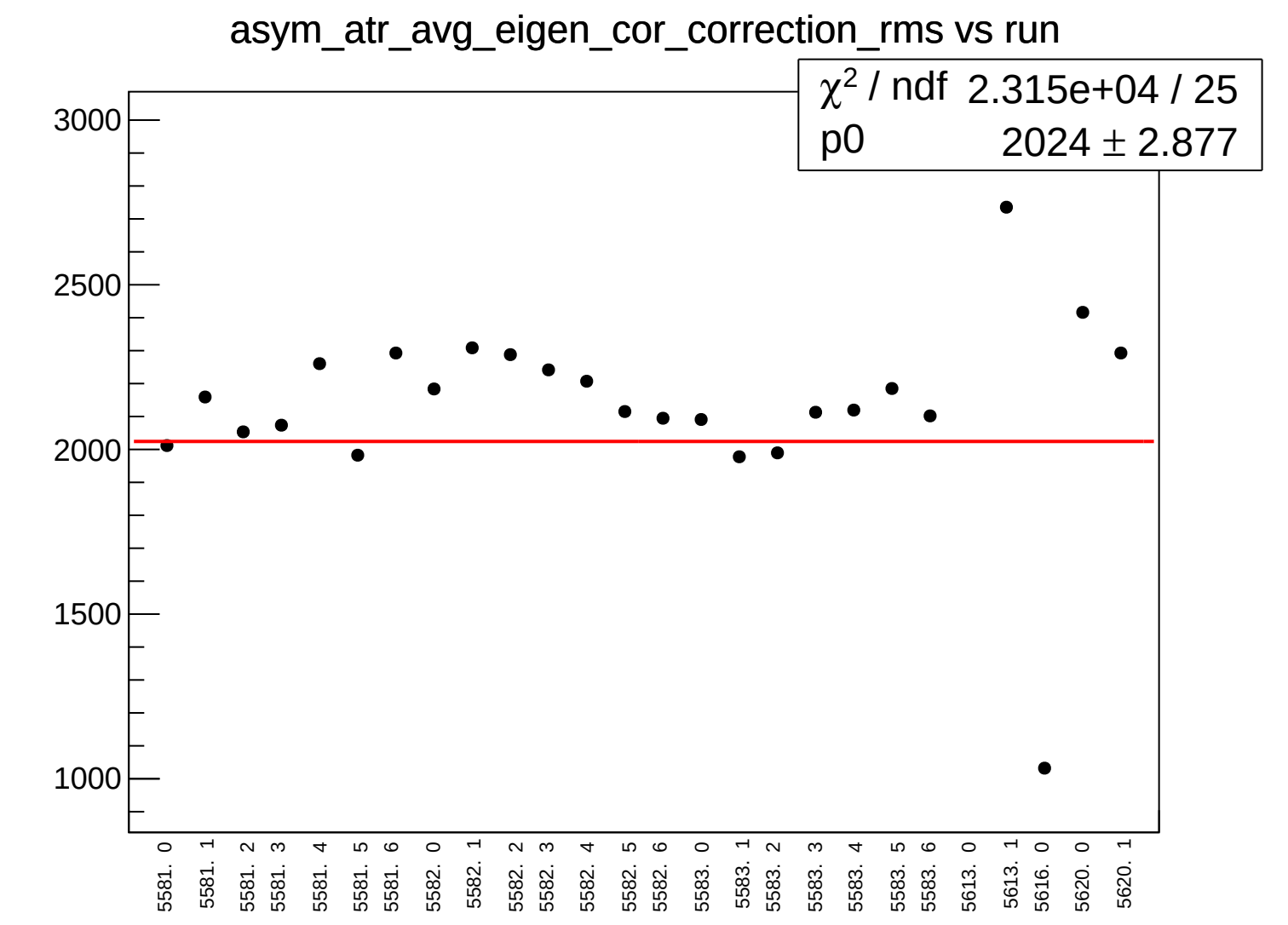

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 2.315e+04 / 25
p0 2024 ± 2.877
3000
2500
2000
1500
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

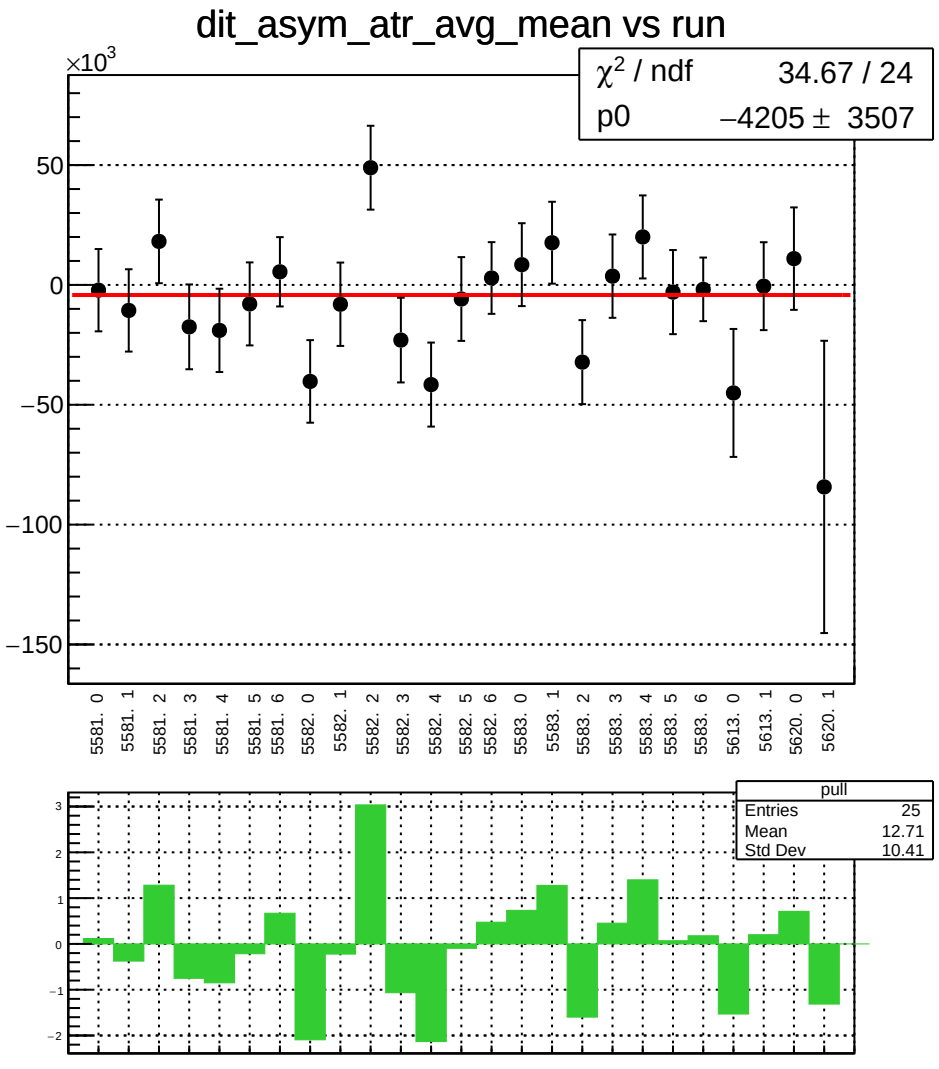

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 34.13 / 24
p0 −4744 ± 3371
×10³
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 13.39
Std Dev 11.86
pull1D
Entries 25
Mean −0.04402
Std Dev 1.168

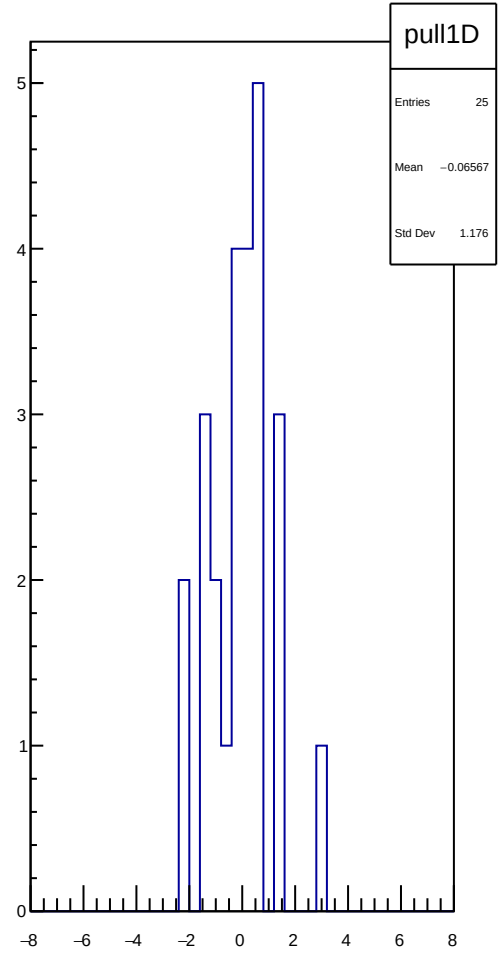

eigen_cor_asym_atr_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.096e+05 / 32
p0 1696 ± 2.303
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

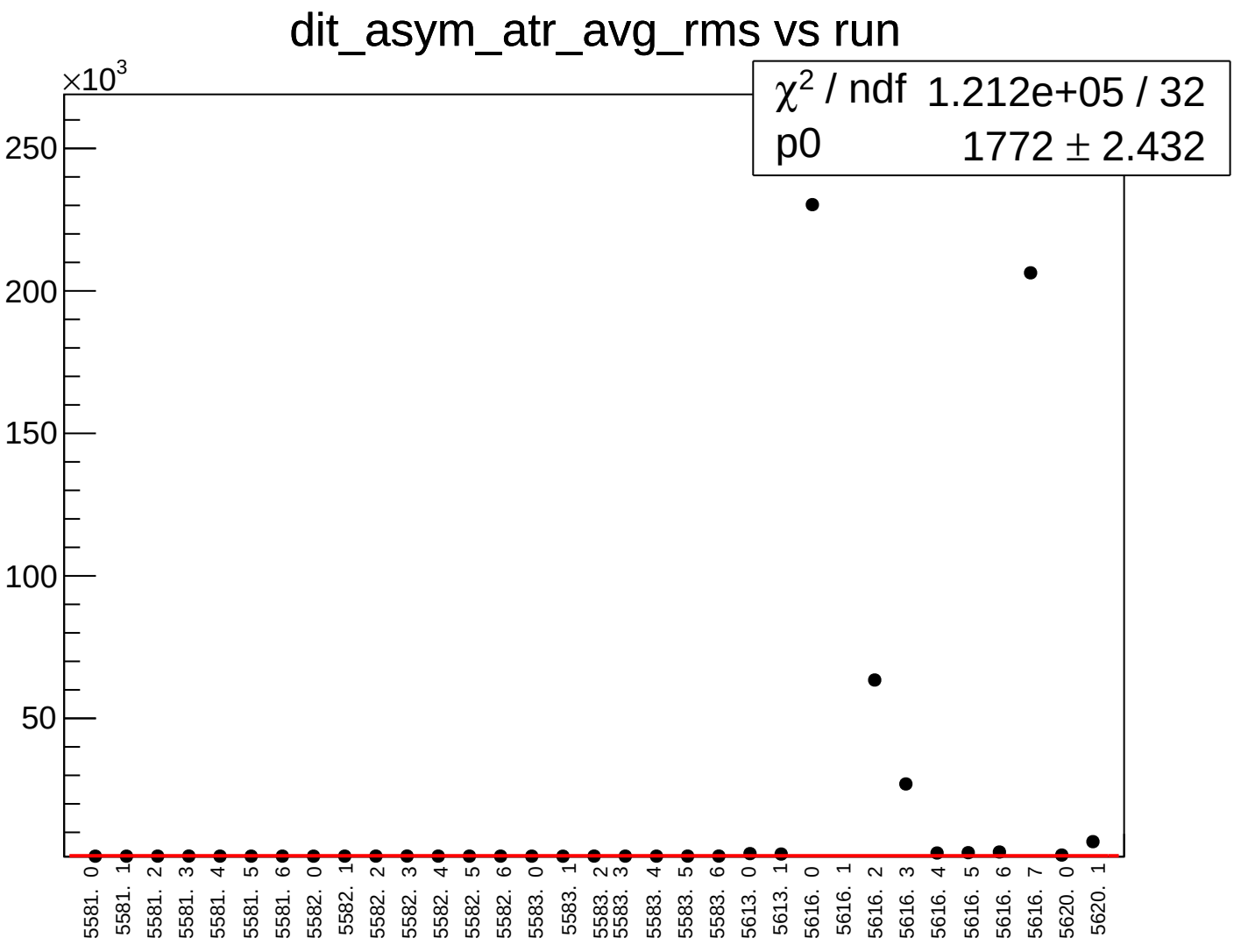

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 29.1 / 25
p0 3639 ± 4069
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 59.81
Std Dev 0
2
1
0
−1
−2
−3

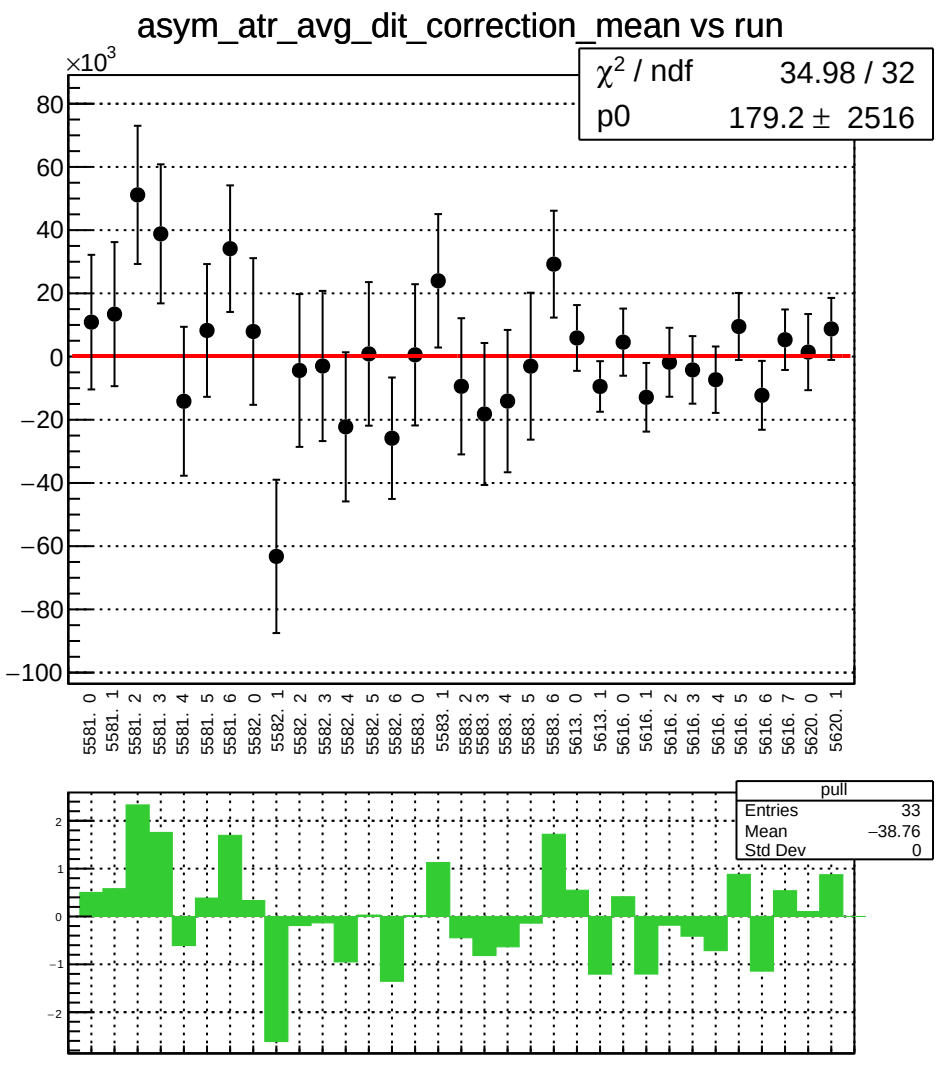

pull1D
Entries 26
Mean −0.03018
Std Dev 1.057
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

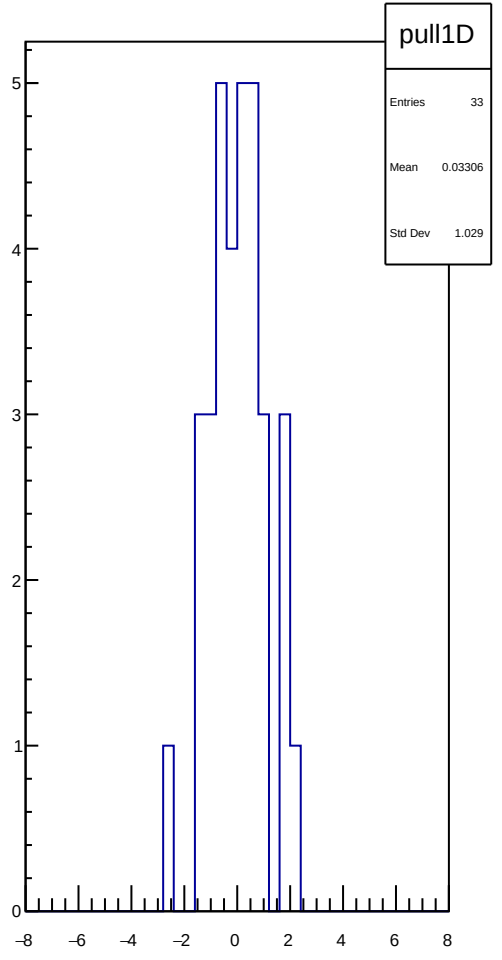

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.315e+04 / 25
p0 2024 ± 2.877
3000
2500
2000
1500
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

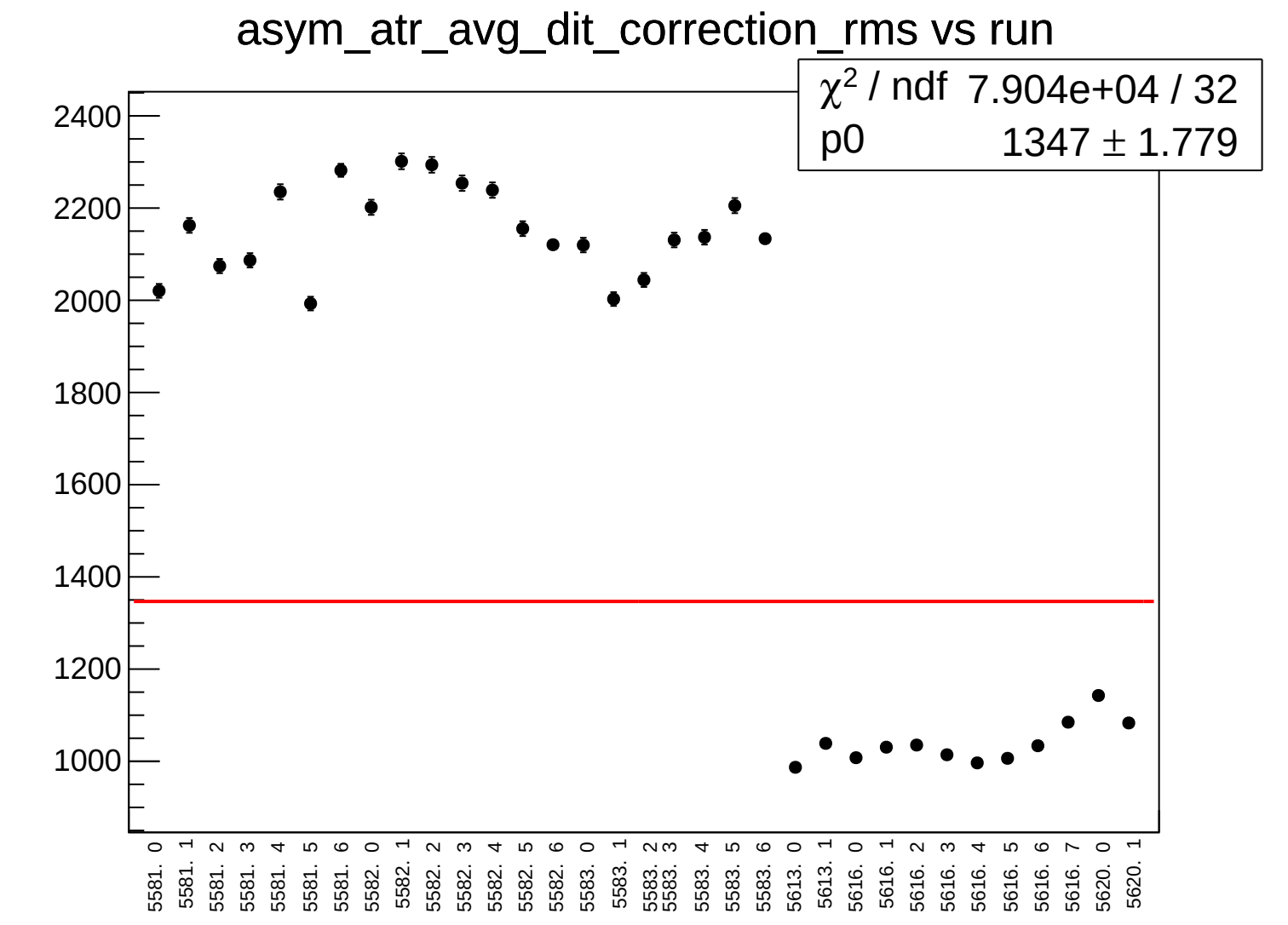

dit_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 34.67 / 24
p0 −4205 ± 3507
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 12.71
Std Dev 10.41
3
2
1
0
−1
−2

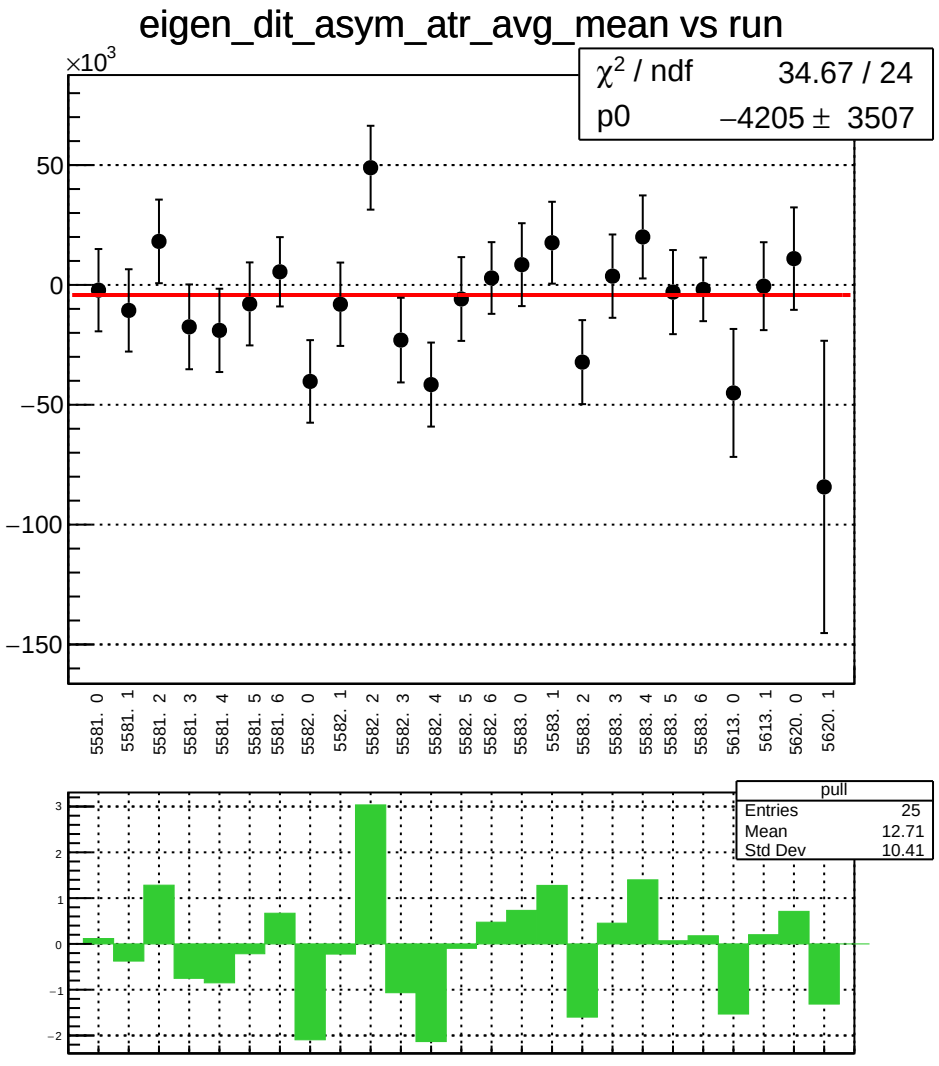

pull1D
Entries 25
Mean −0.06567
Std Dev 1.176
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

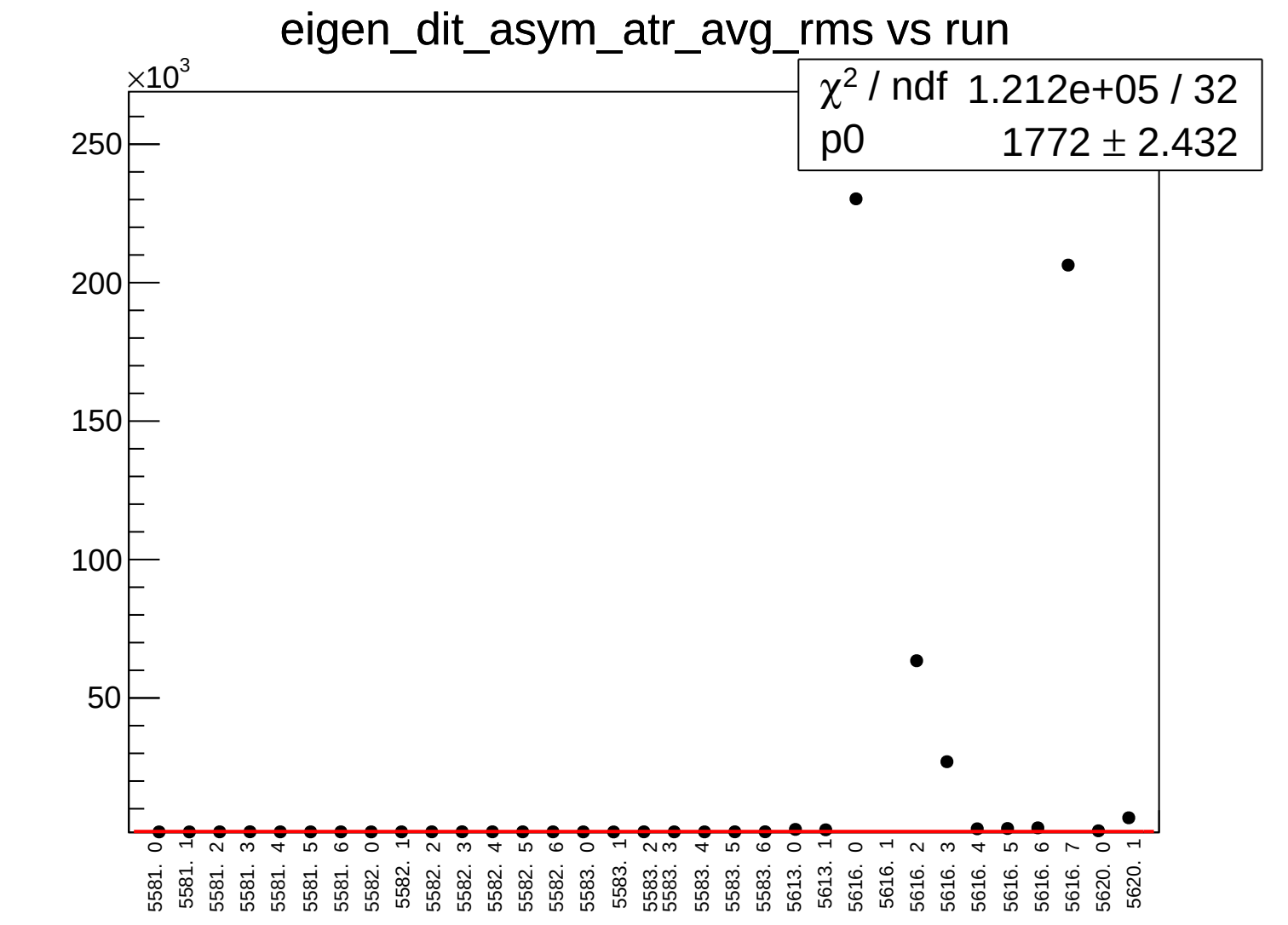

dit_asym_atr_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.212e+05 / 32
p0 1772 ± 2.432
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

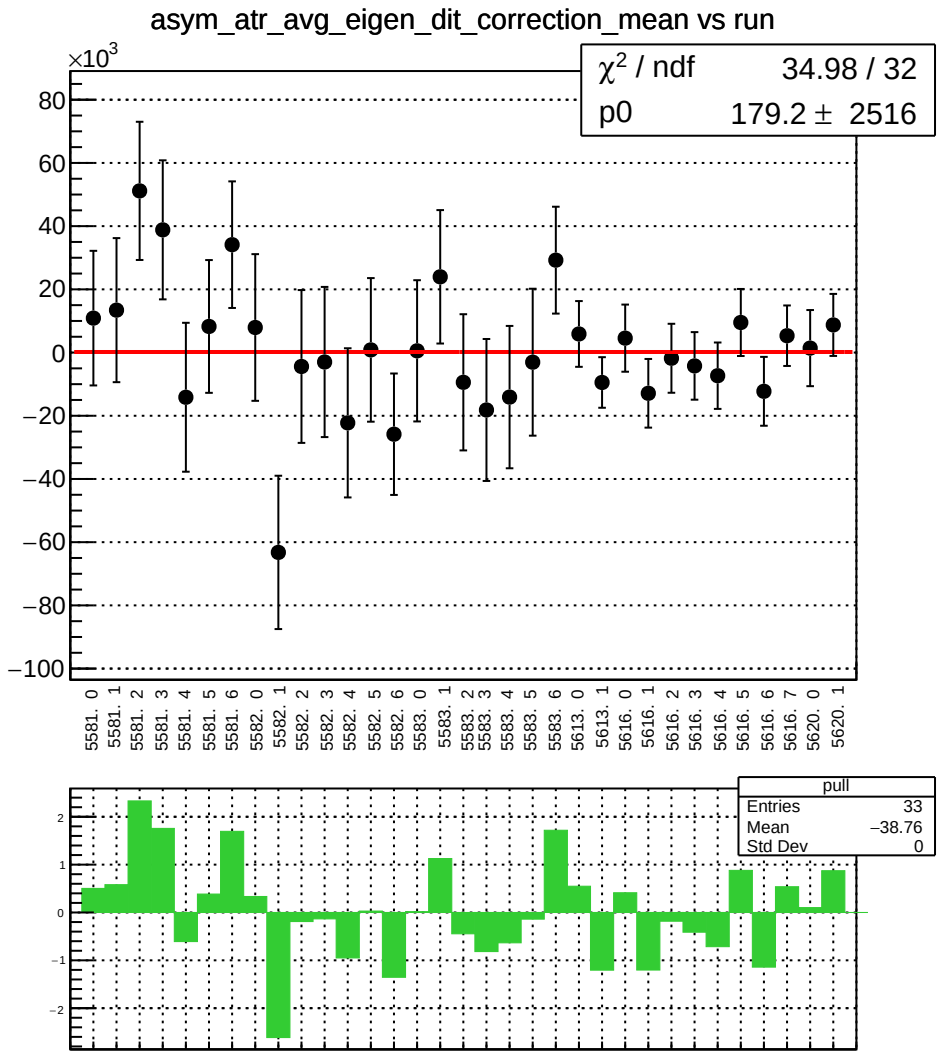

asym_atr_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 34.98 / 32
p0 179.2 ± 2516
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −38.76
Std Dev 0
2
1
0
−1
−2

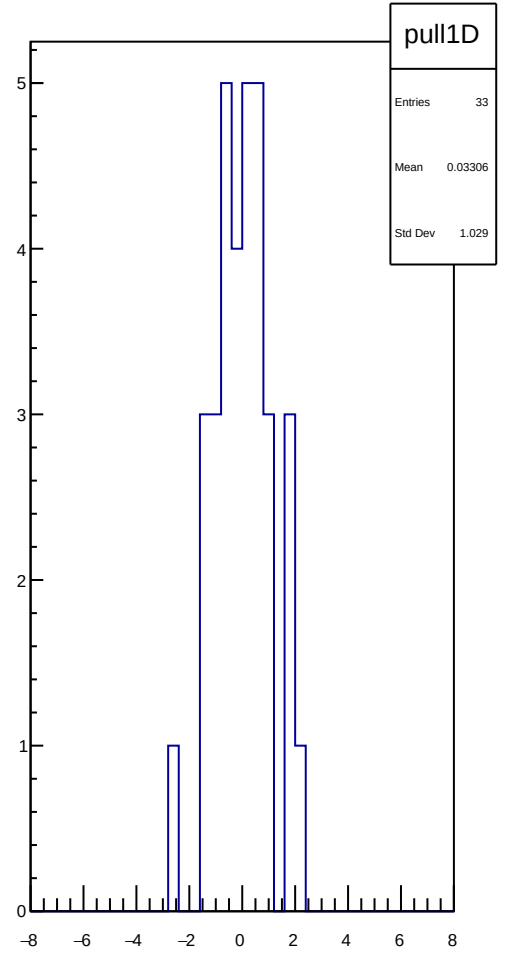

pull1D
Entries 33
Mean 0.03306
Std Dev 1.029
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

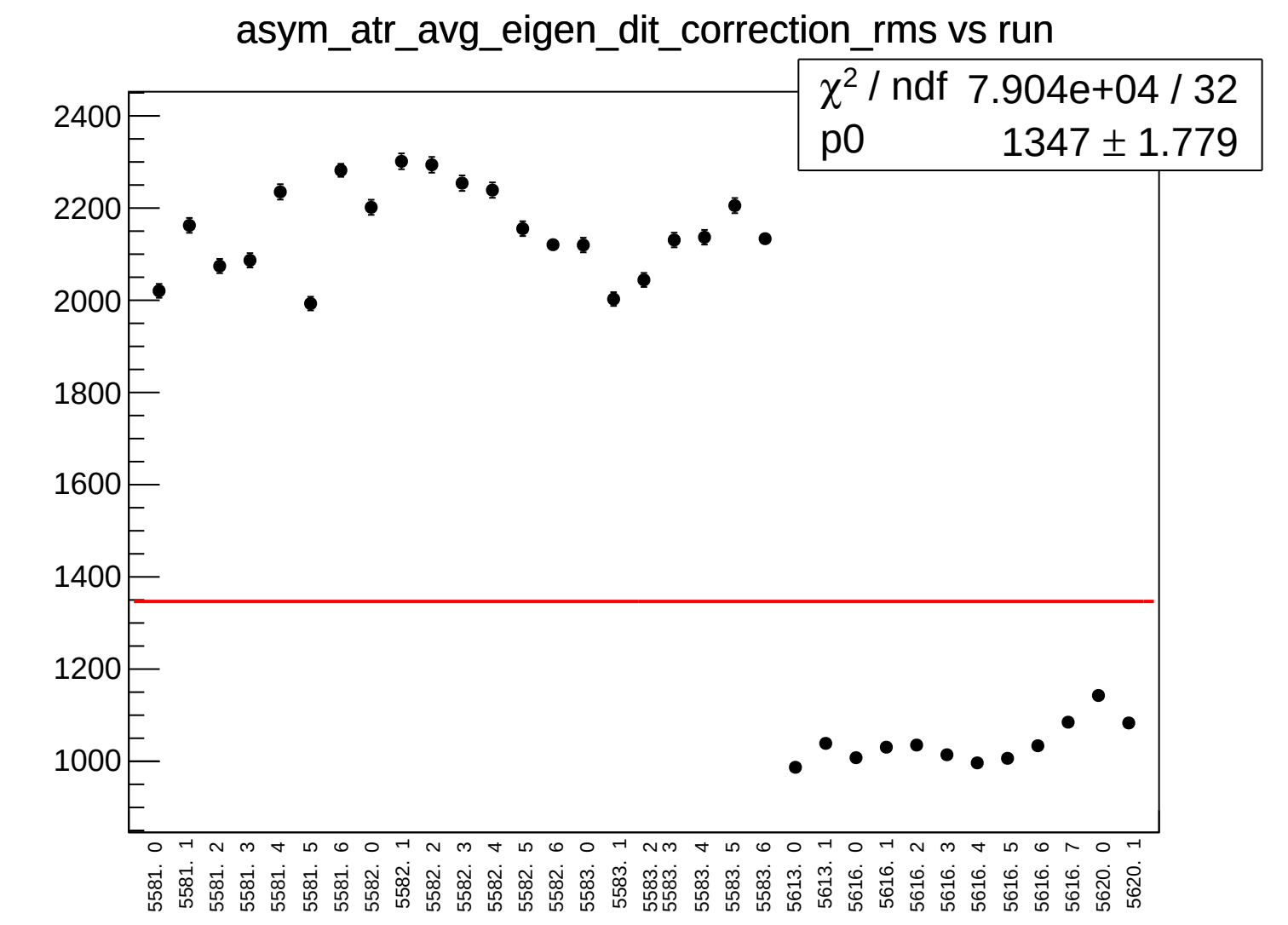

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 7.904e+04 / 32
p0 1347 ± 1.779
2400
2200
2000
1800
1600
1400
1200
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

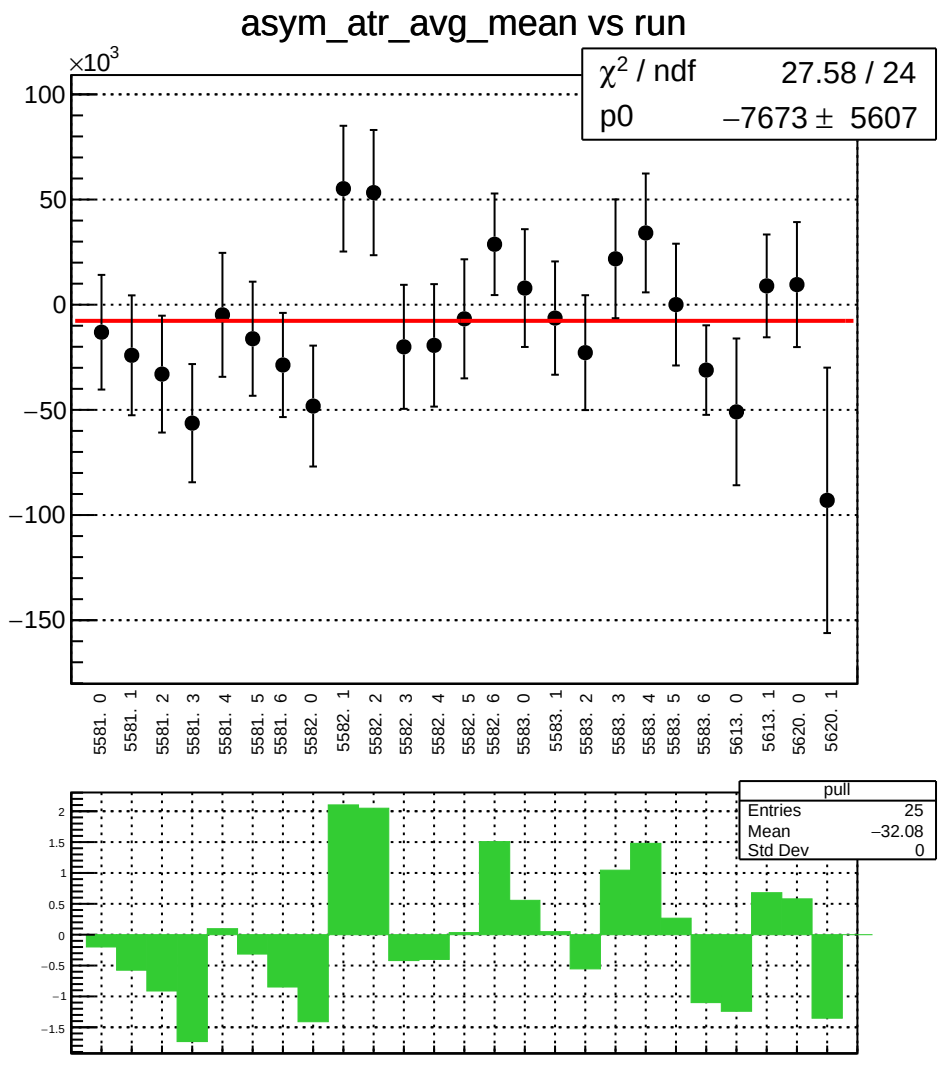

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 34.67 / 24
p0 −4205 ± 3507
×10³
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 12.71
Std Dev 10.41
3
2
1
0
−1
−2
pull1D
Entries 25
Mean −0.06567
Std Dev 1.176
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

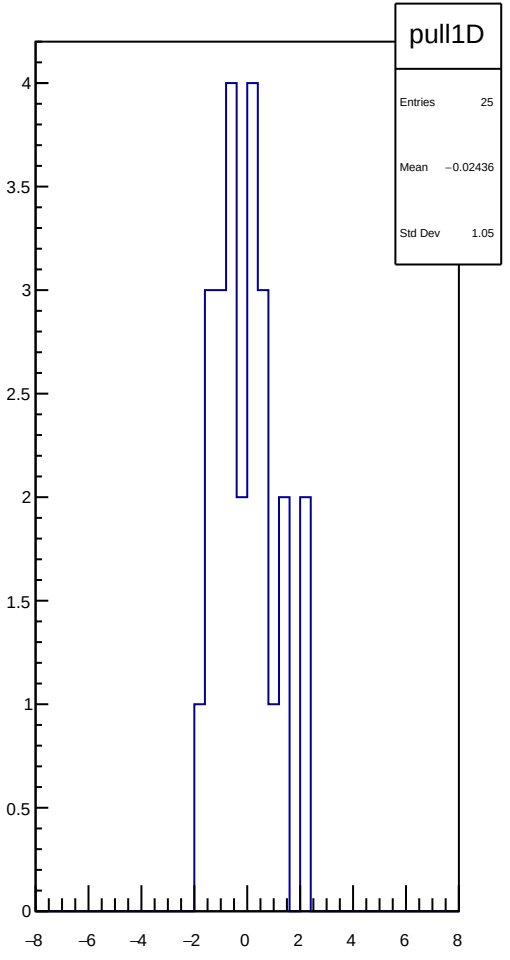

eigen_dit_asym_atr_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.212e+05 / 32
p0 1772 ± 2.432
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

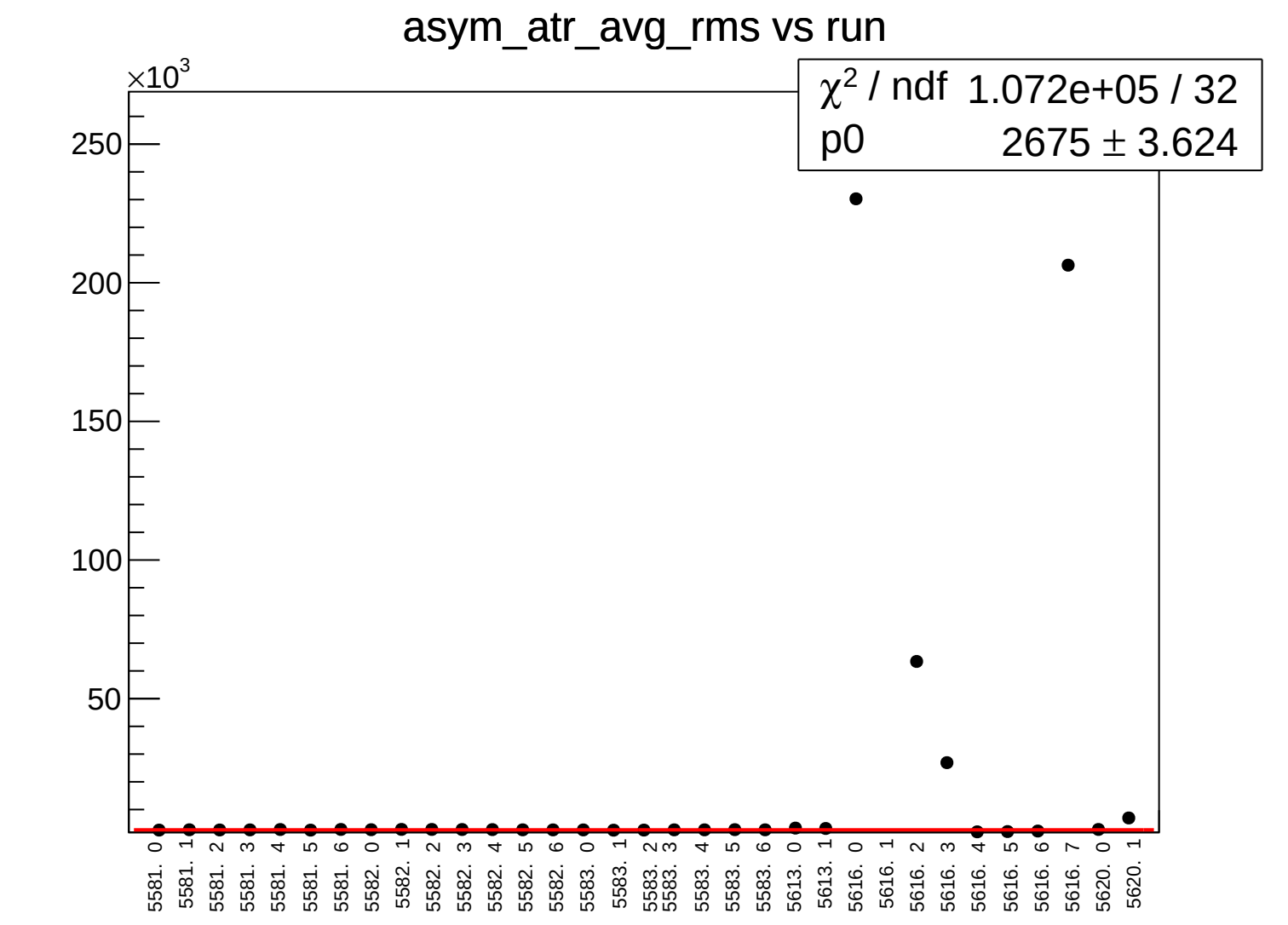

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 34.98 / 32
p0 179.2 ± 2516
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −38.76
Std Dev 0
2
1
0
−1
−2

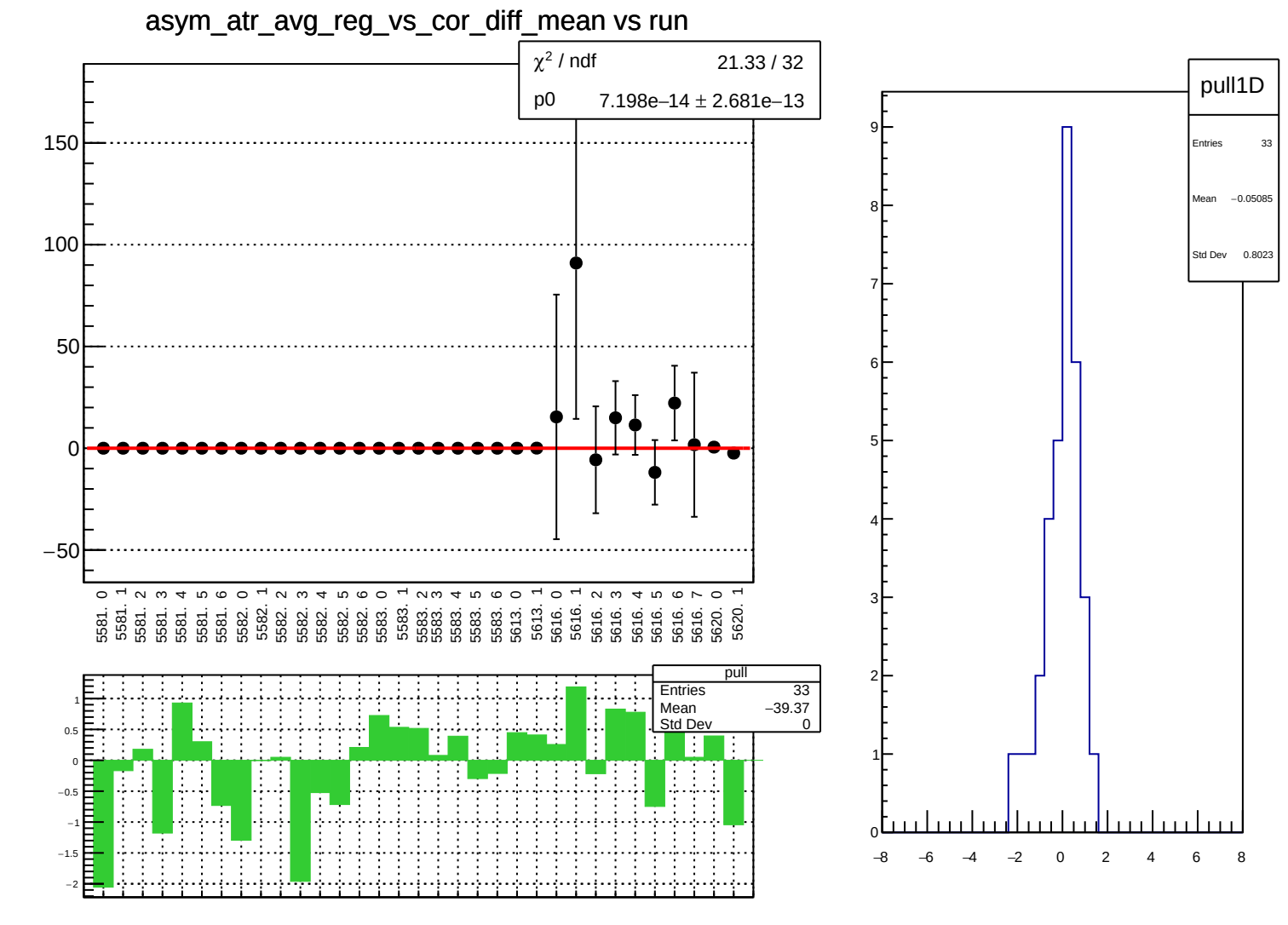

pull1D
Entries 33
Mean 0.03306
Std Dev 1.029
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

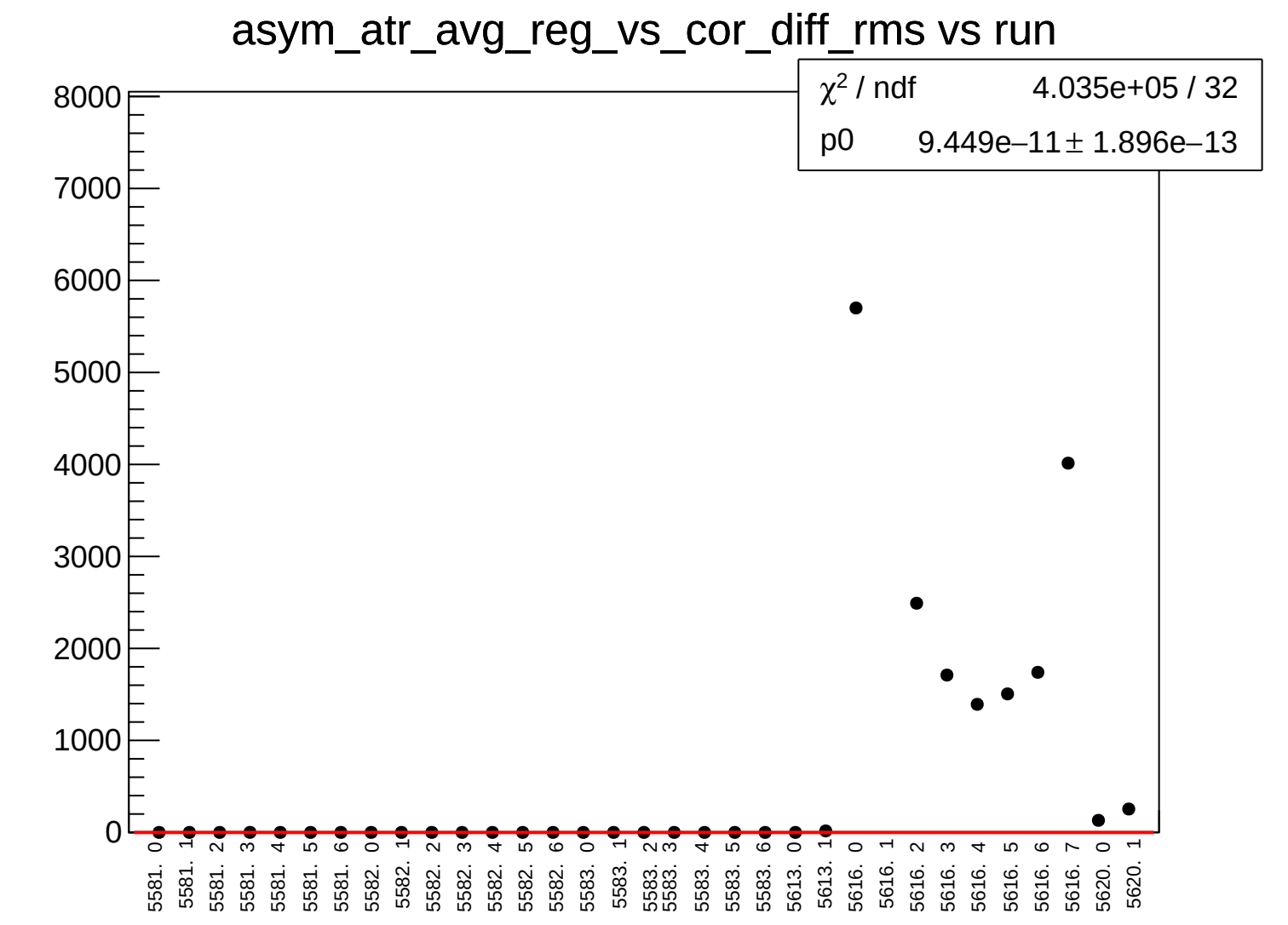

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.904e+04 / 32
p0 1347 ± 1.779
2400
2200
2000
1800
1600
1400
1200
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

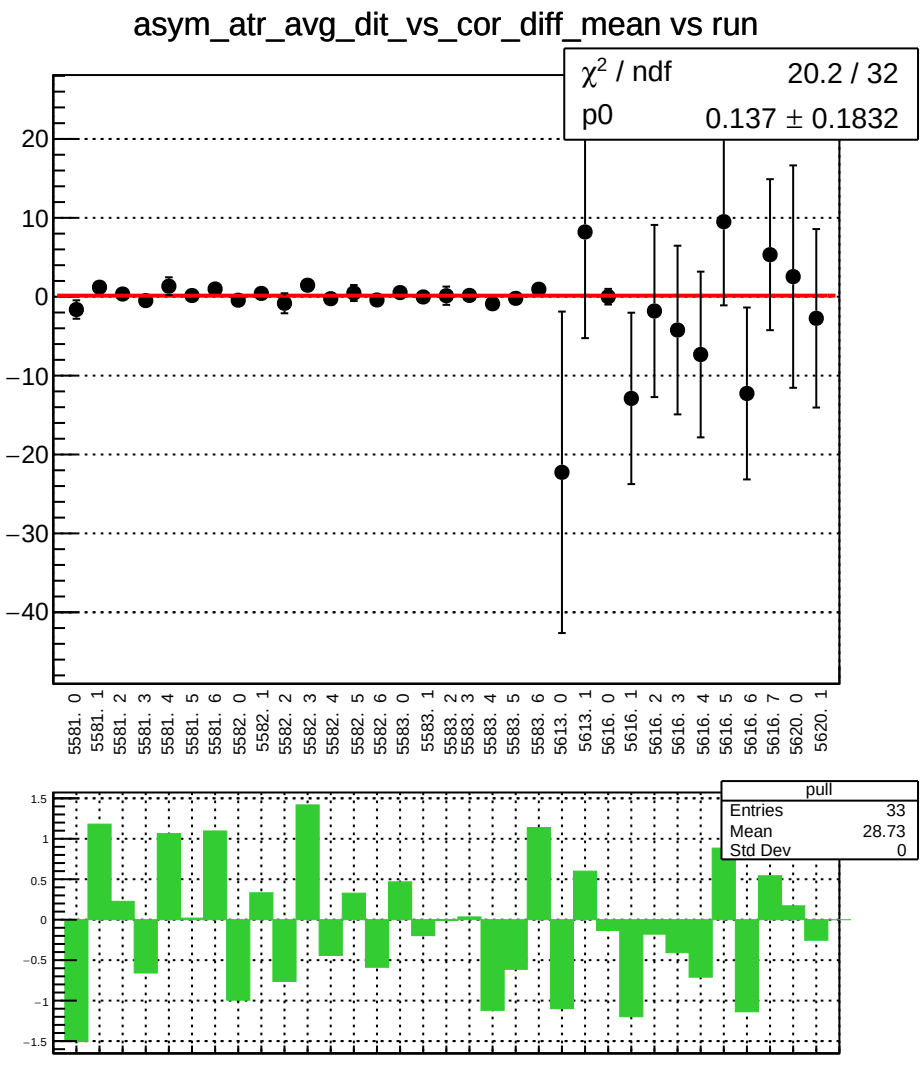

asym_atr_avg_mean vs run
×10^3
χ² / ndf 27.58 / 24
p0 −7673 ± 5607
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −32.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

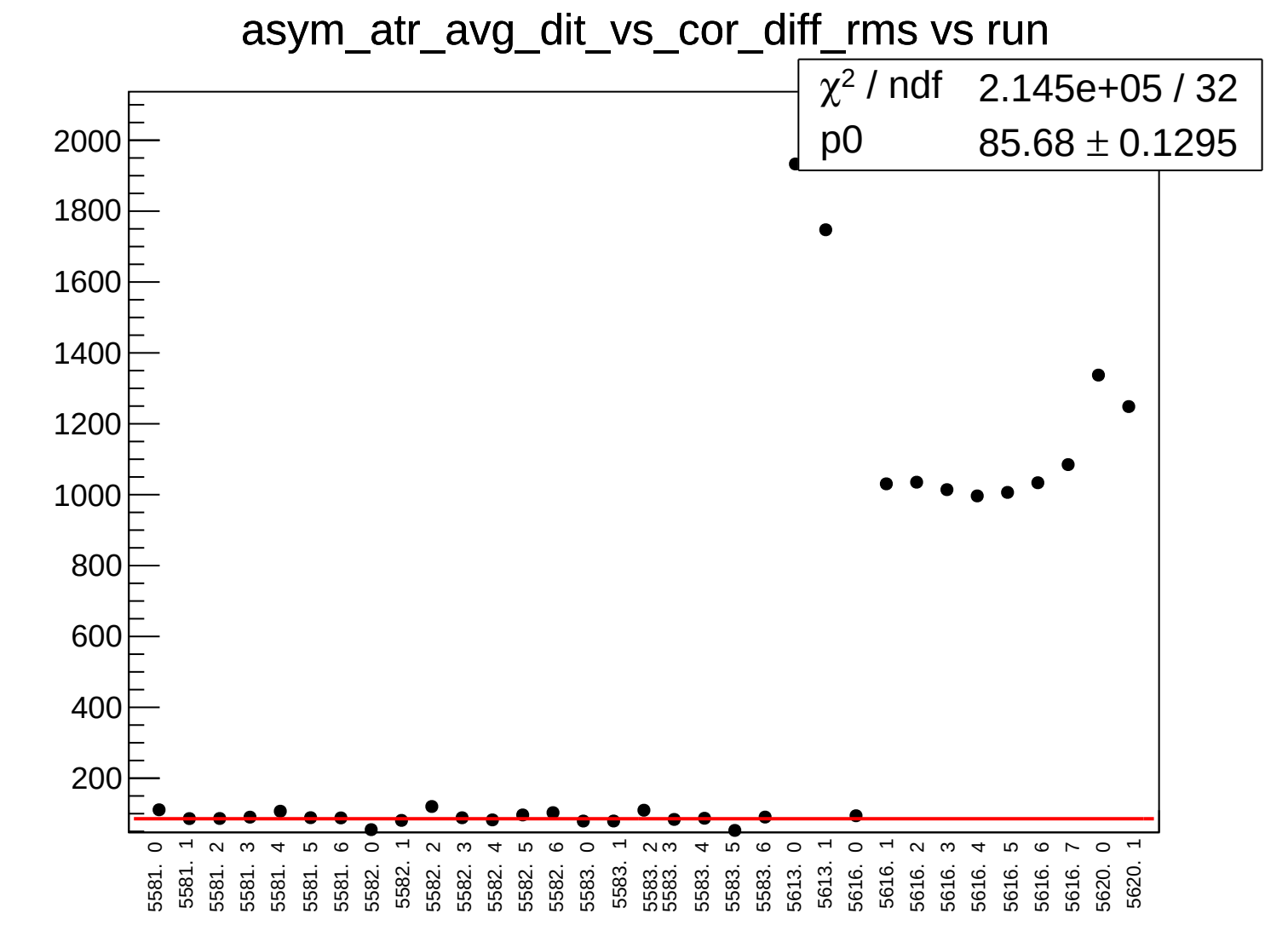

pull1D
Entries 25
Mean −0.02436
Std Dev 1.05
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

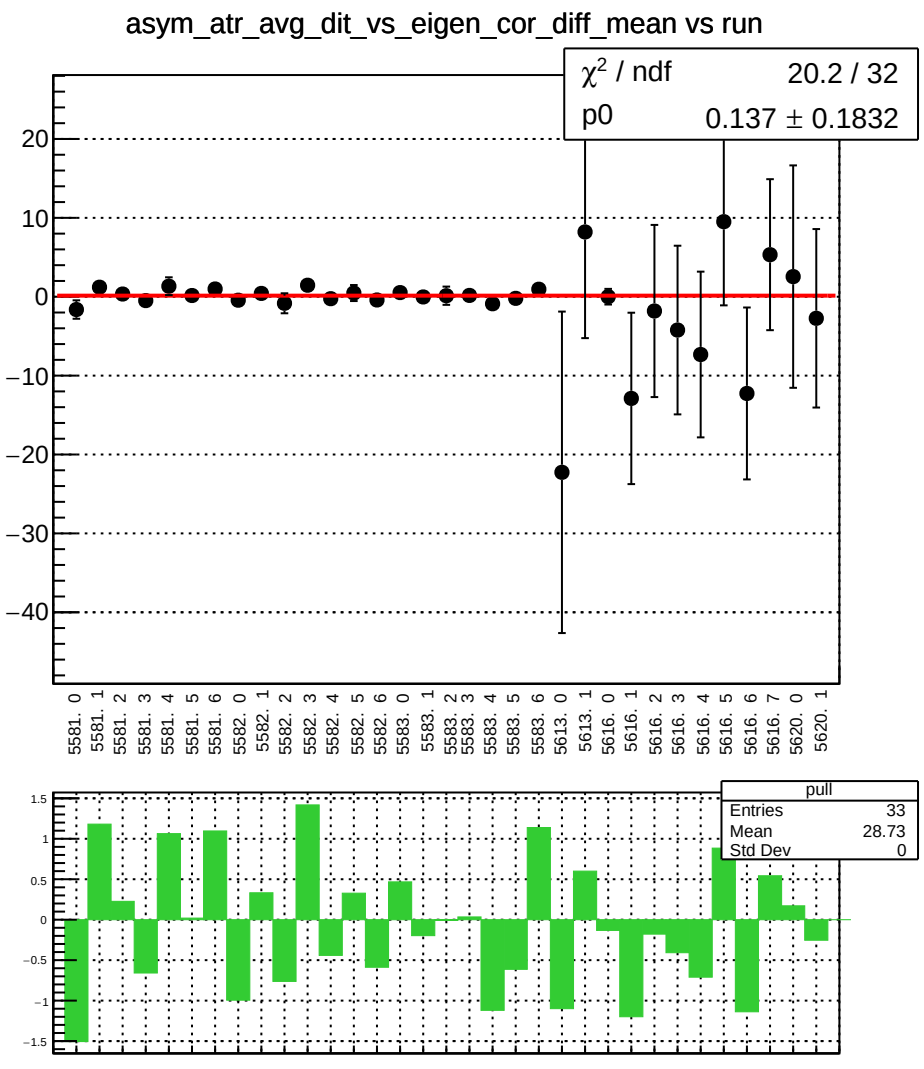

asym_atr_avg_rms vs run
×10^3
χ^2 / ndf 1.072e+05 / 32
p0 2675 ± 3.624
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

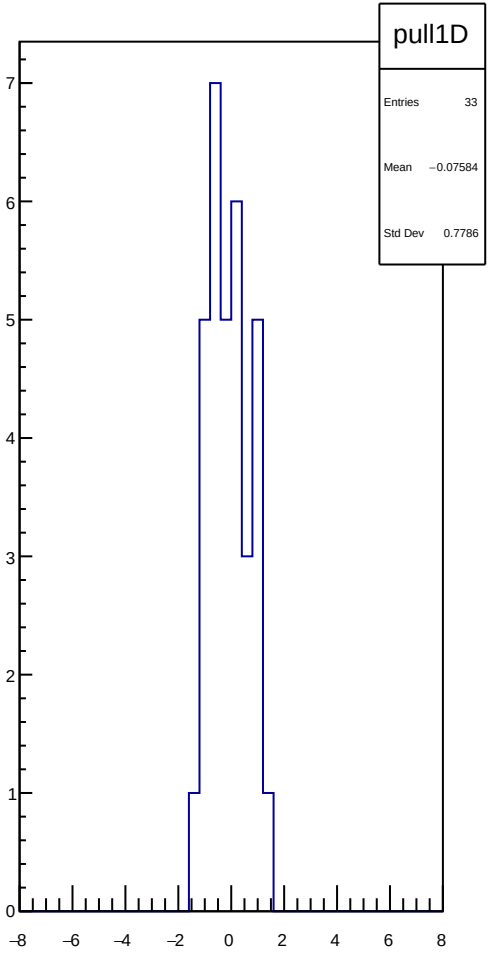

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 21.33 / 32
p0 7.198e−14 ± 2.681e−13
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −39.37
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.05085
Std Dev 0.8023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

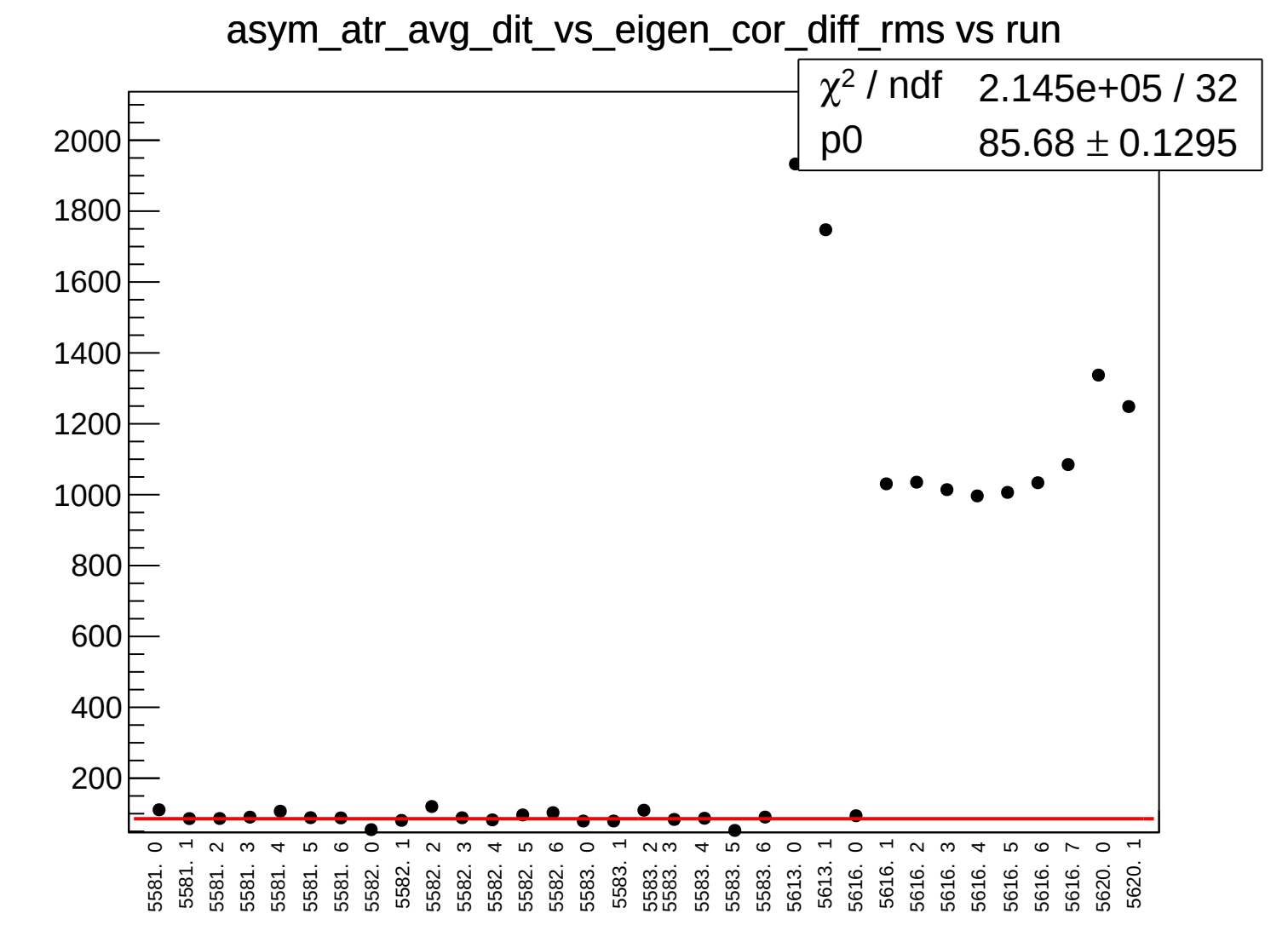

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.035e+05 / 32
p0 9.449e−11 ± 1.896e−13
8000
7000
6000
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

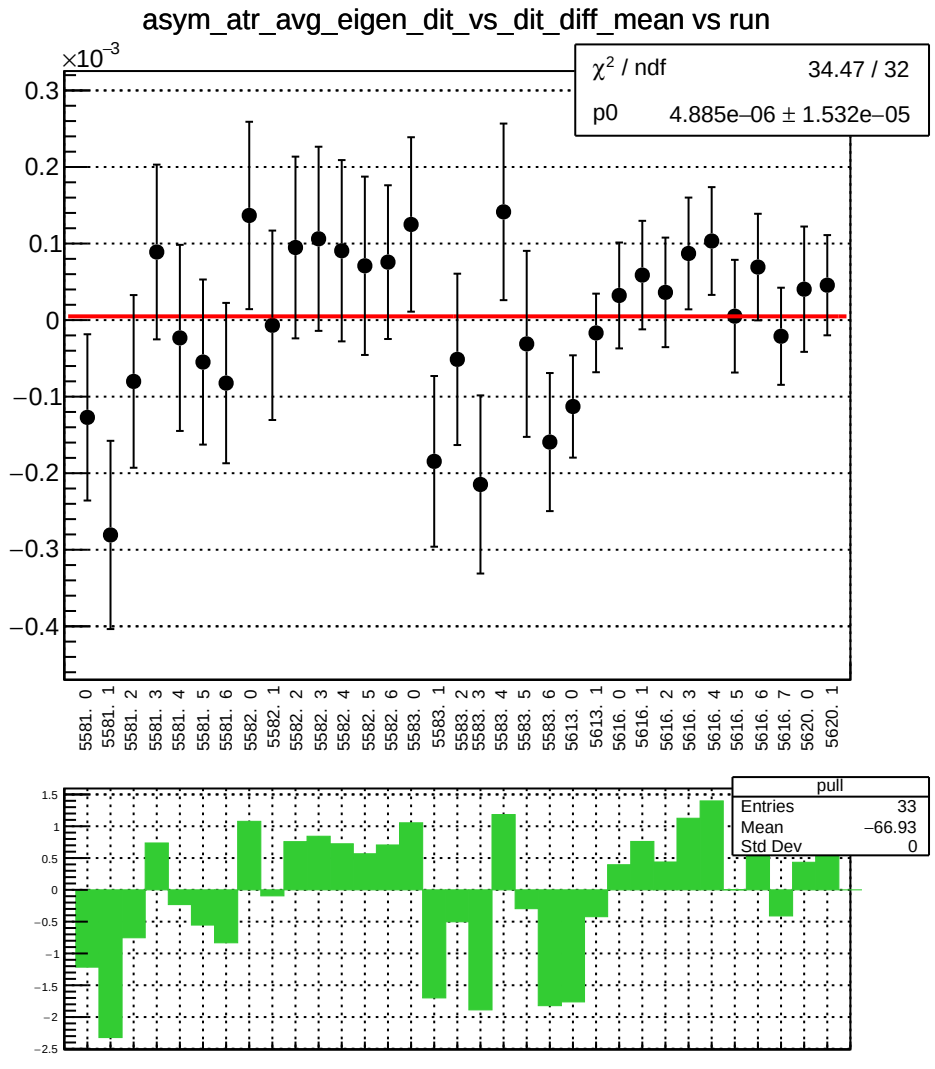

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 20.2 / 32
p0 0.137 ± 0.1832
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.07584
Std Dev 0.7786
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

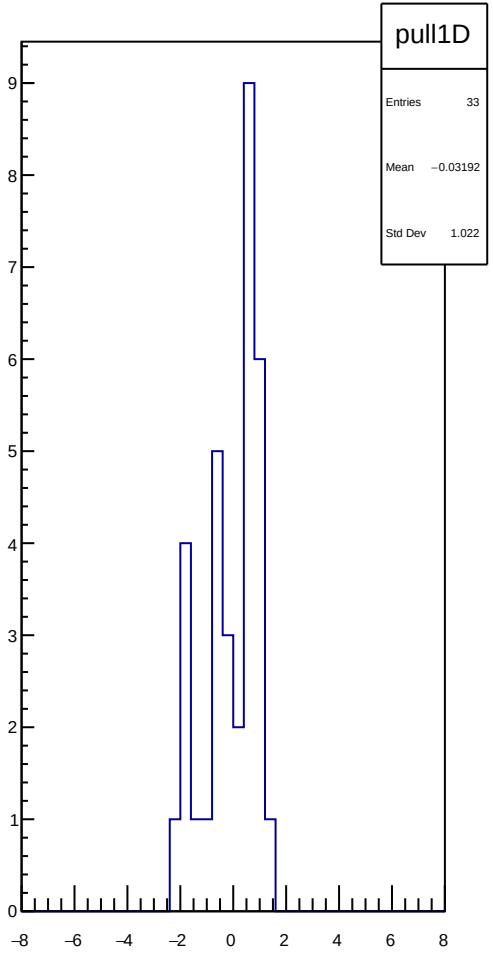

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.145e+05 / 32
p0 85.68 ± 0.1295
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

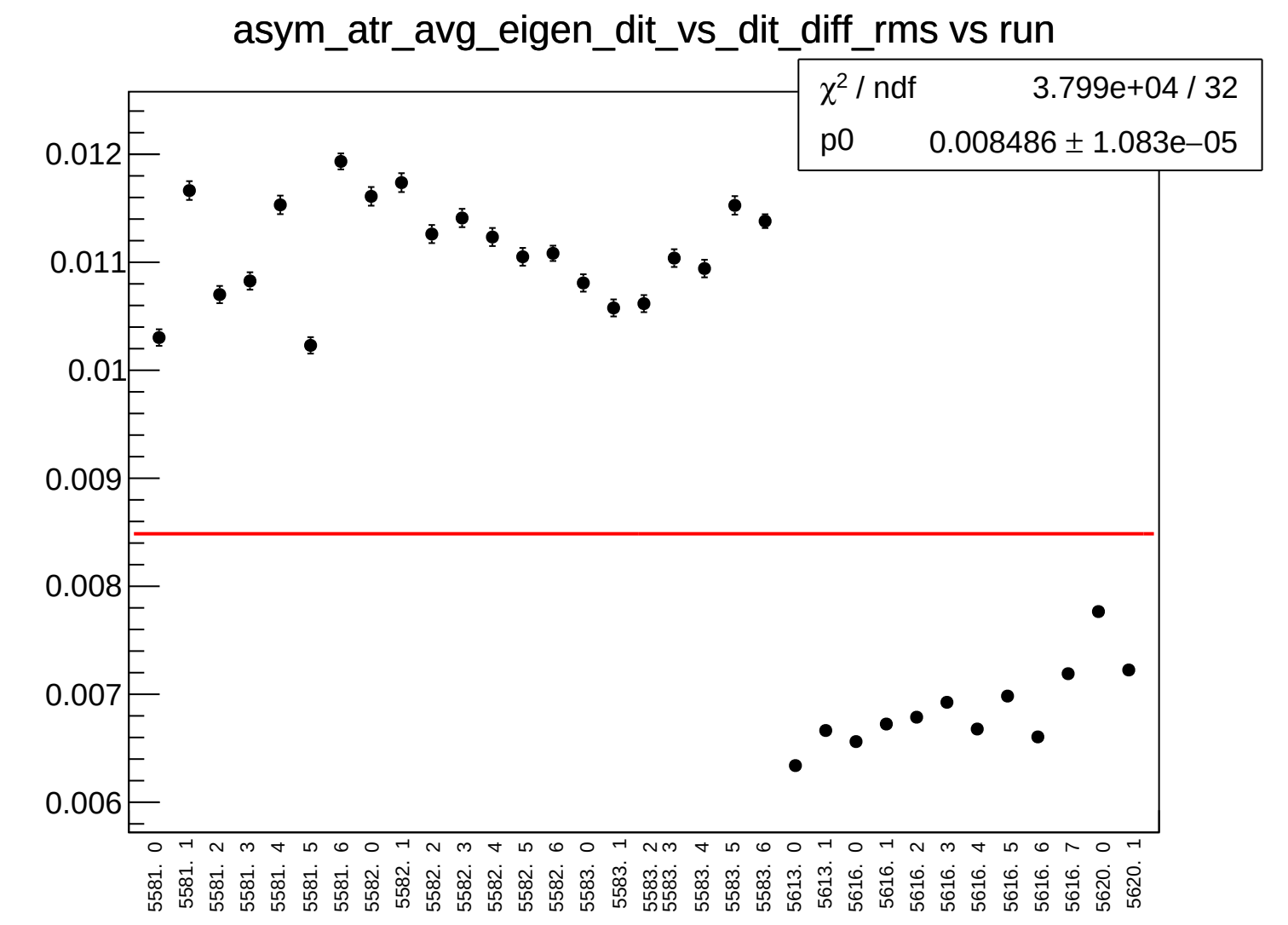

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.2 / 32
p0 0.137 ± 0.1832
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

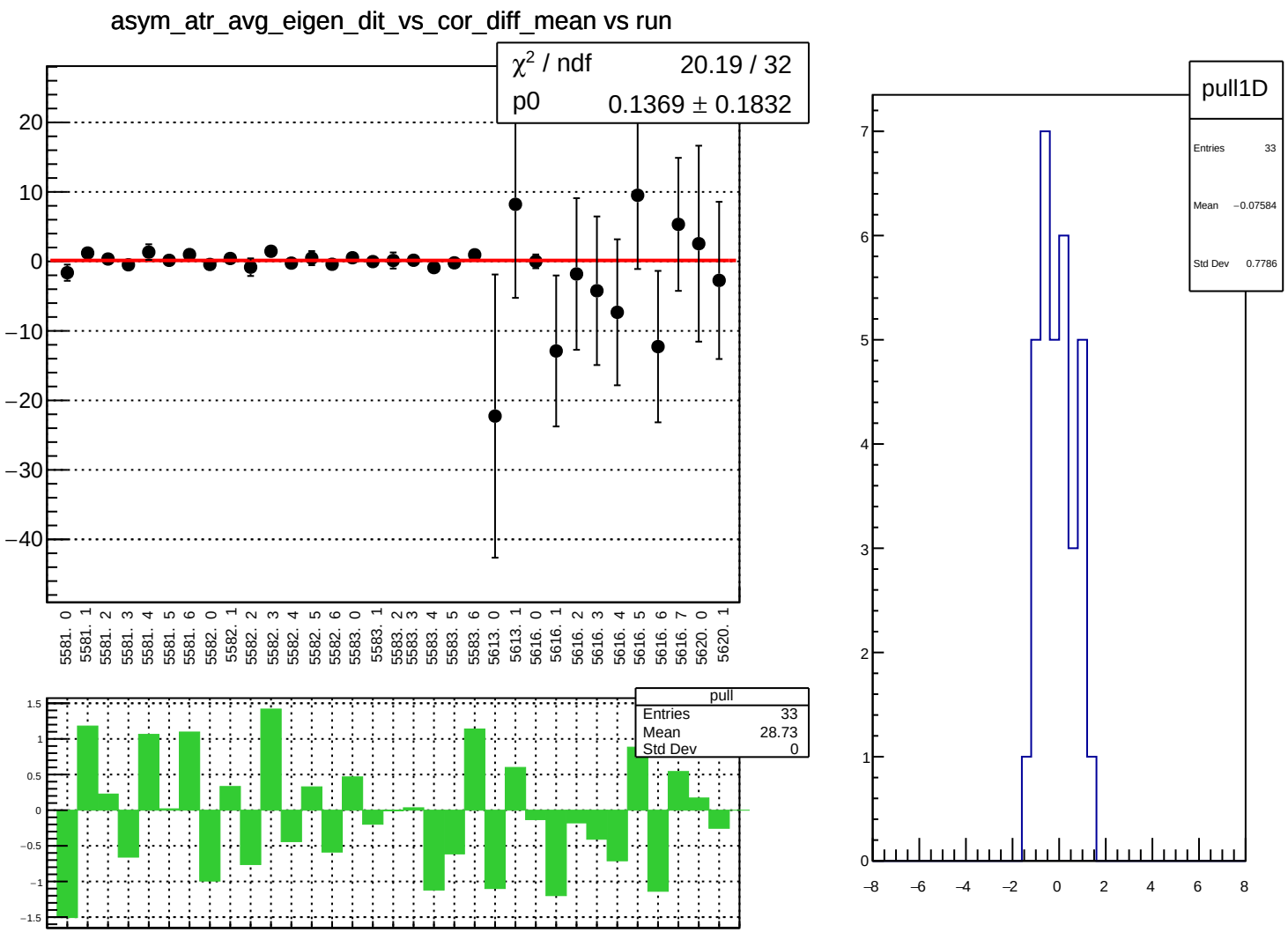

pull1D
Entries 33
Mean −0.07584
Std Dev 0.7786
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

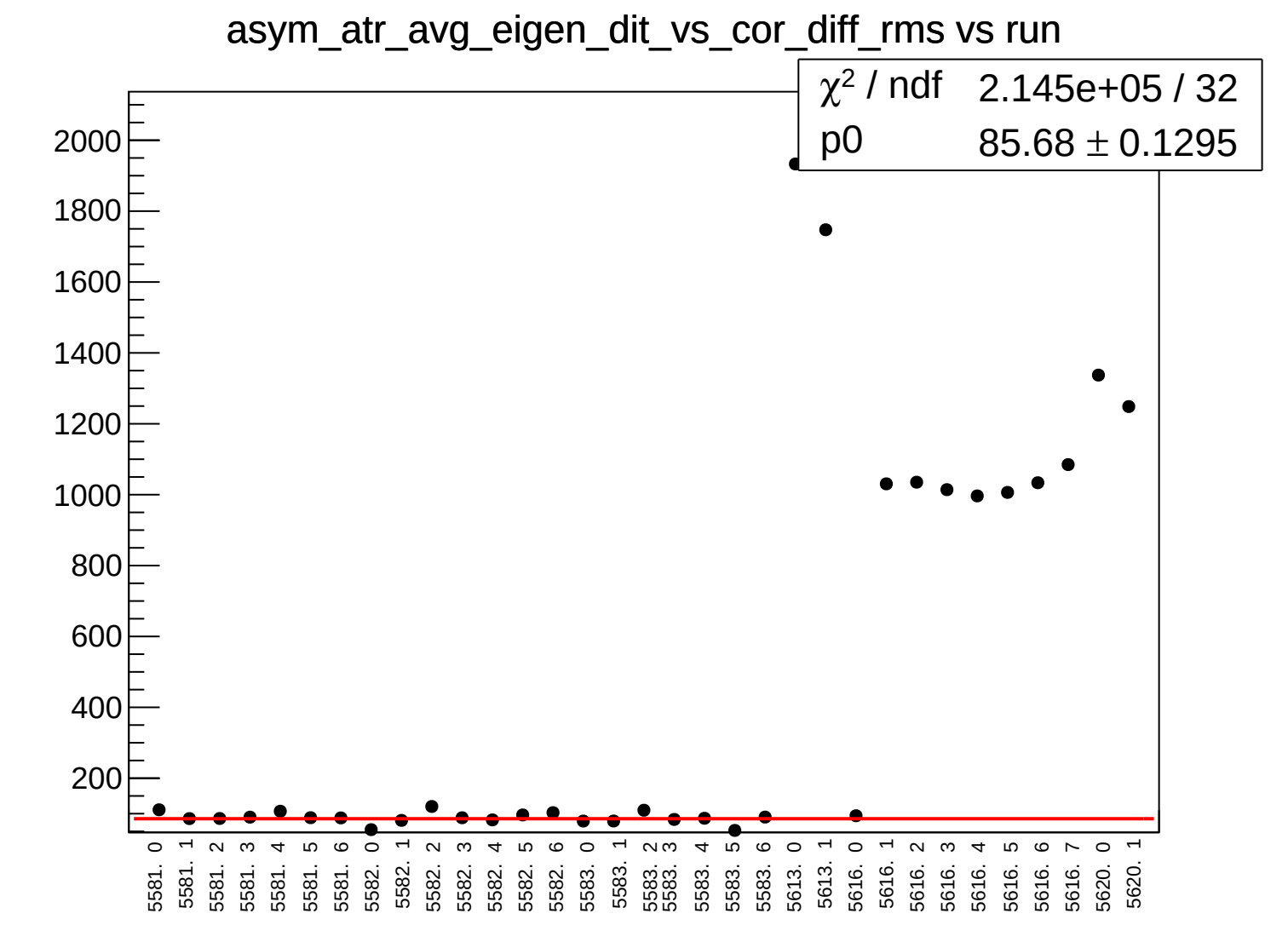

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.145e+05 / 32
p0 85.68 ± 0.1295
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

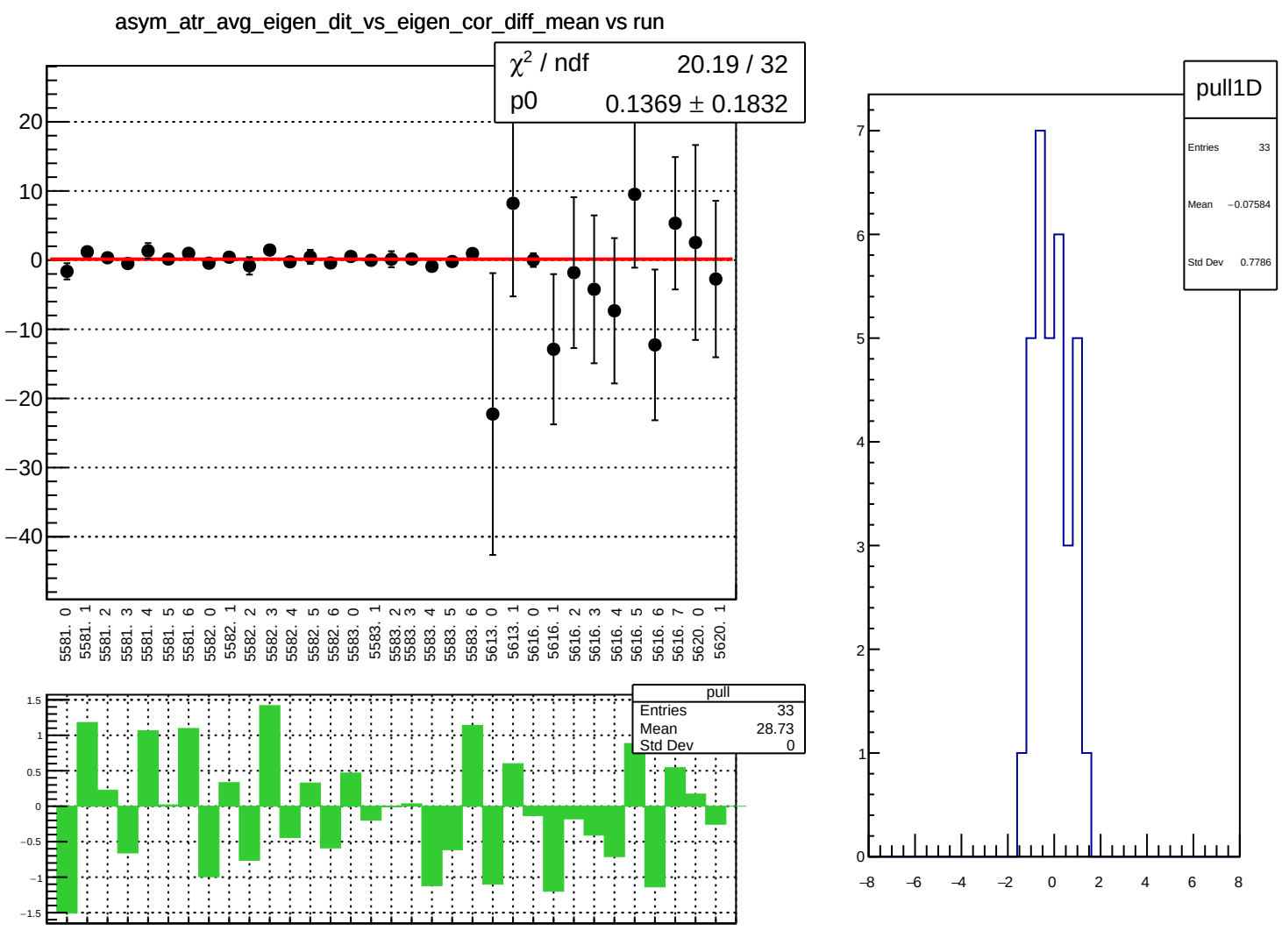

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 34.47 / 32
p0 4.885e−06 ± 1.532e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −66.93
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

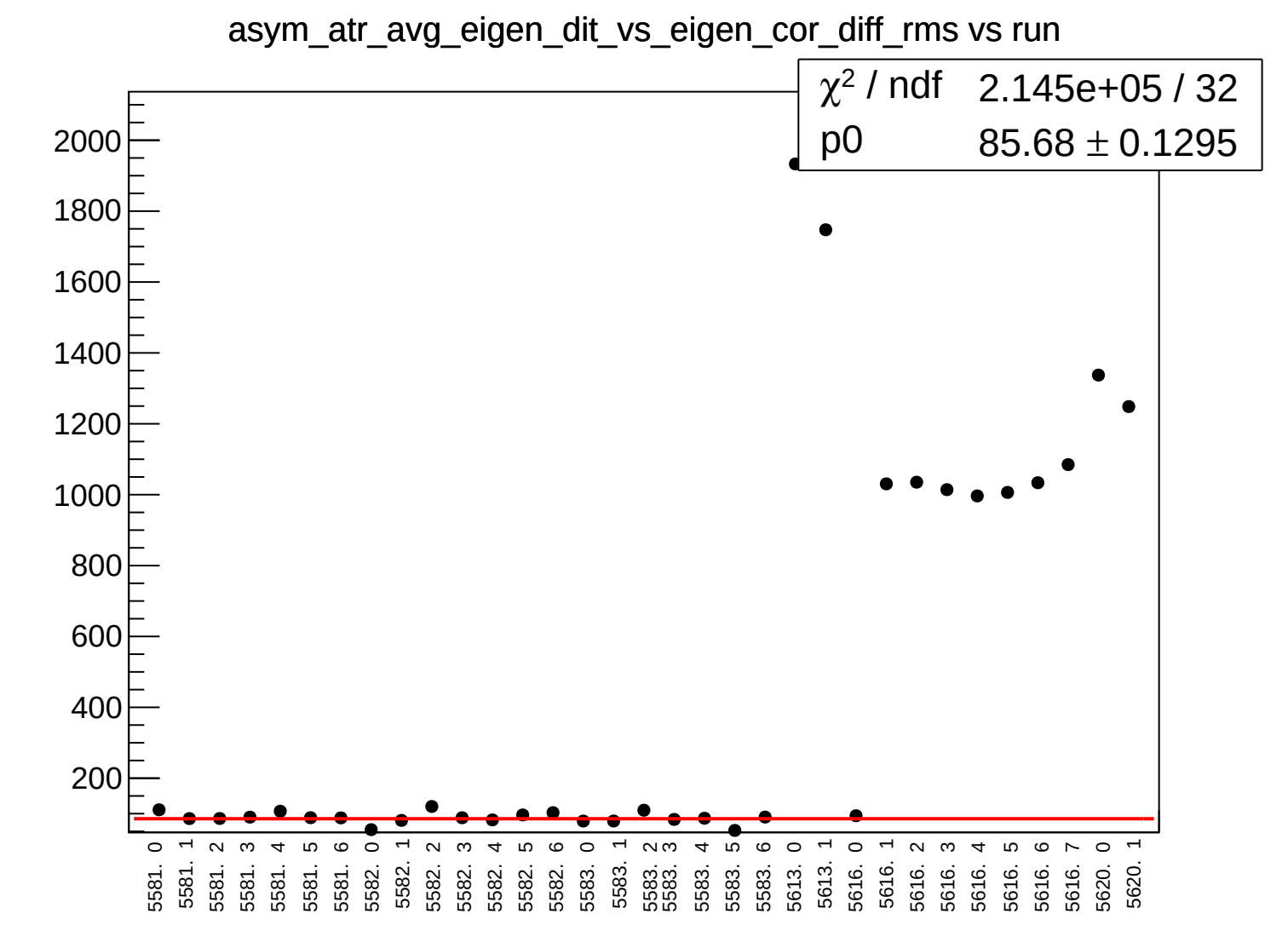

pull1D
Entries 33
Mean −0.03192
Std Dev 1.022
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

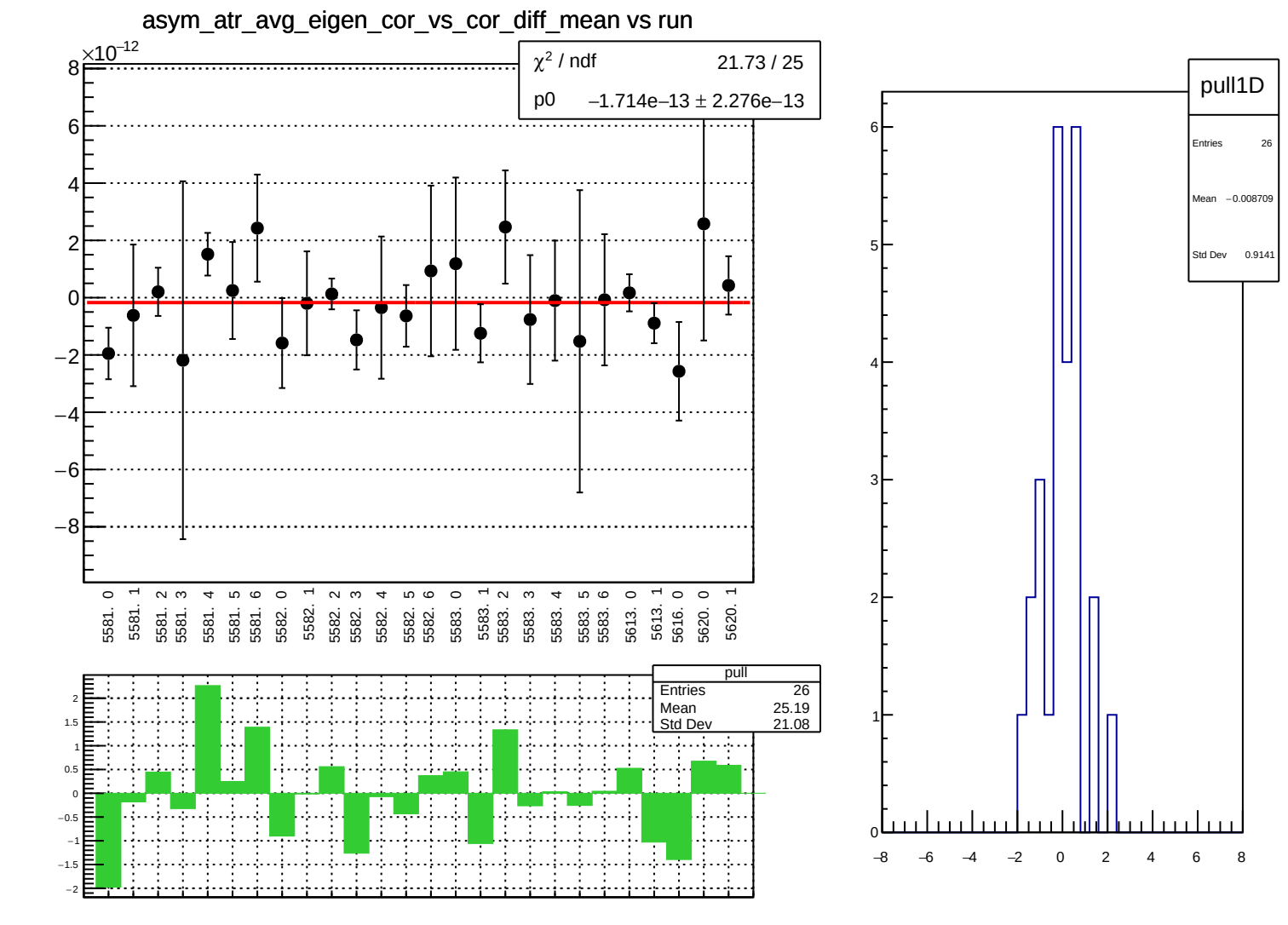

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.799e+04 / 32
p0 0.008486 ± 1.083e−05
0.012
0.011
0.01
0.009
0.008
0.007
0.006
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

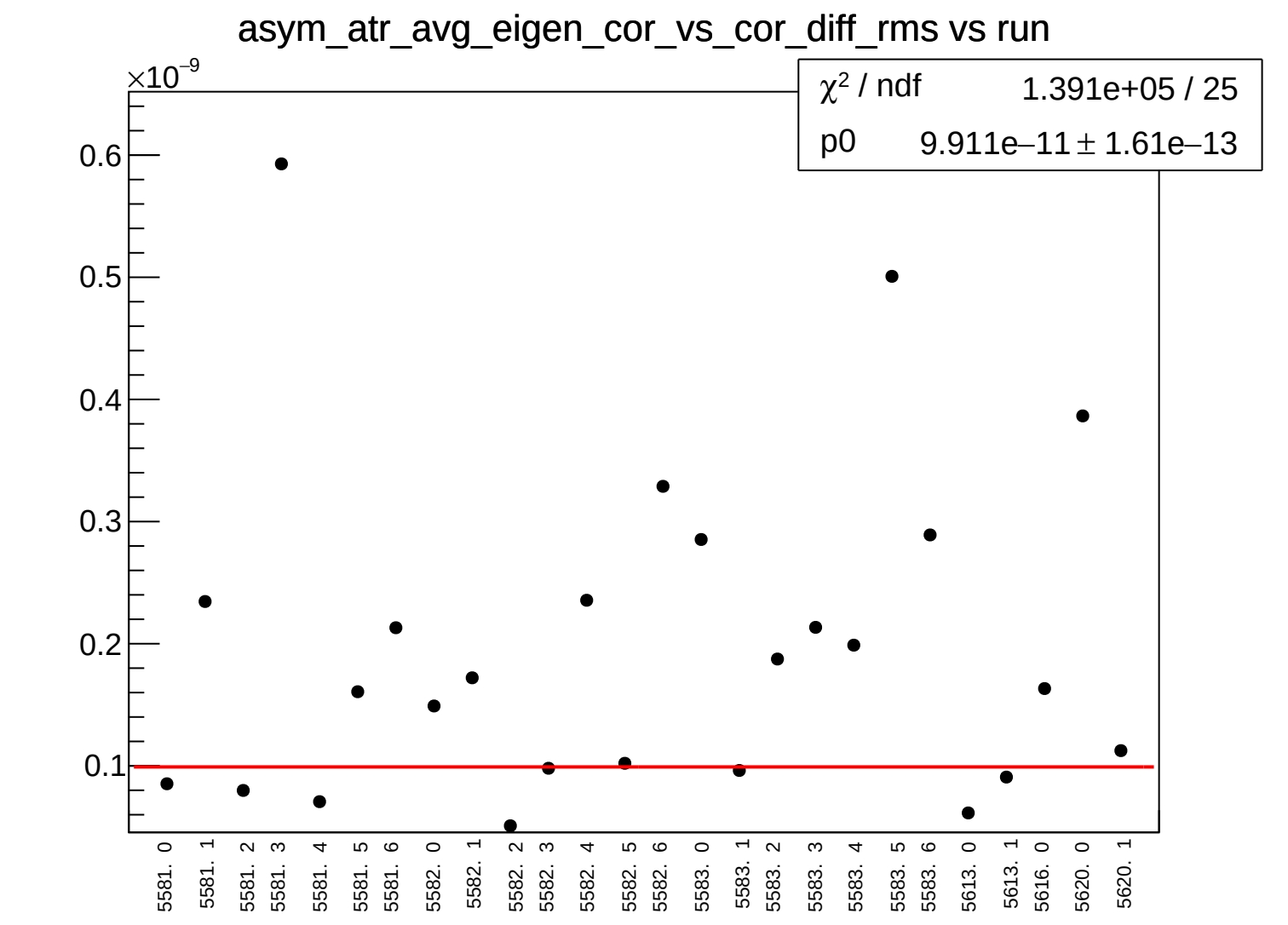

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 20.19 / 32
p0 0.1369 ± 0.1832
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.07584
Std Dev 0.7786
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

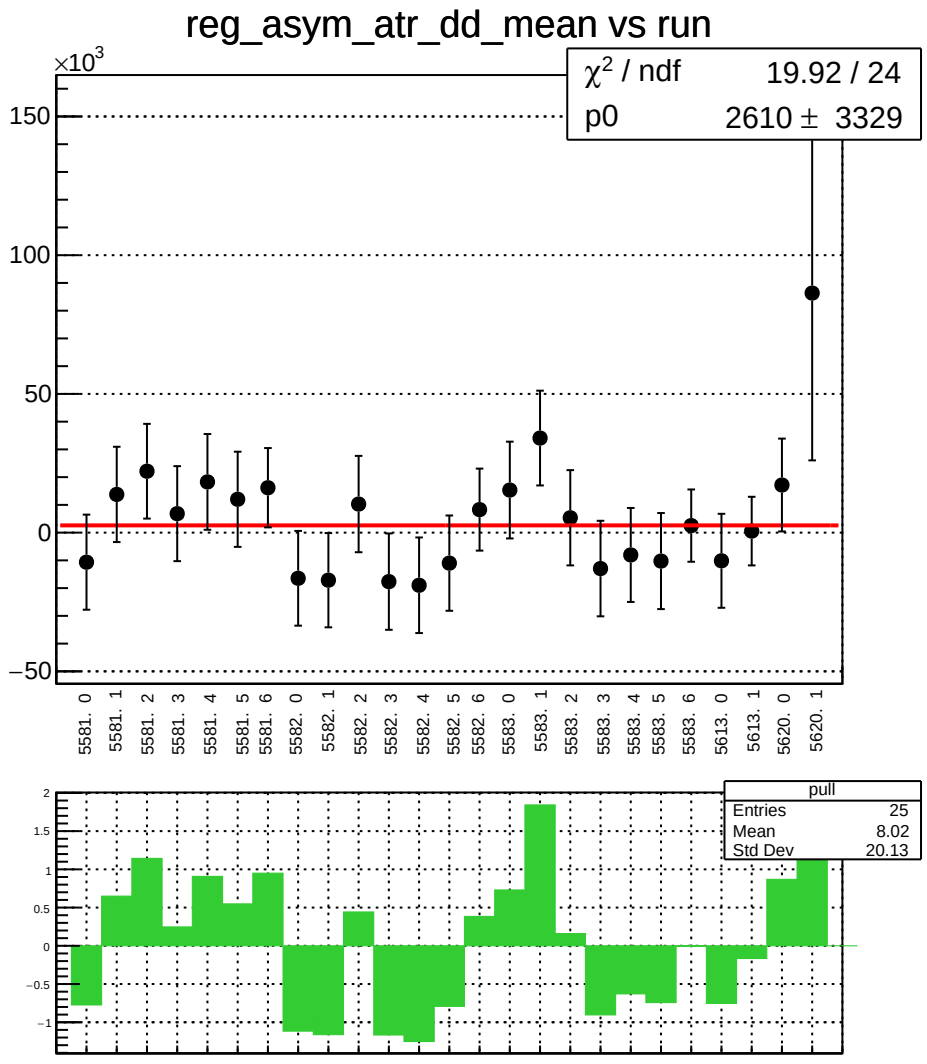

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.145e+05 / 32
p0 85.68 ± 0.1295
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

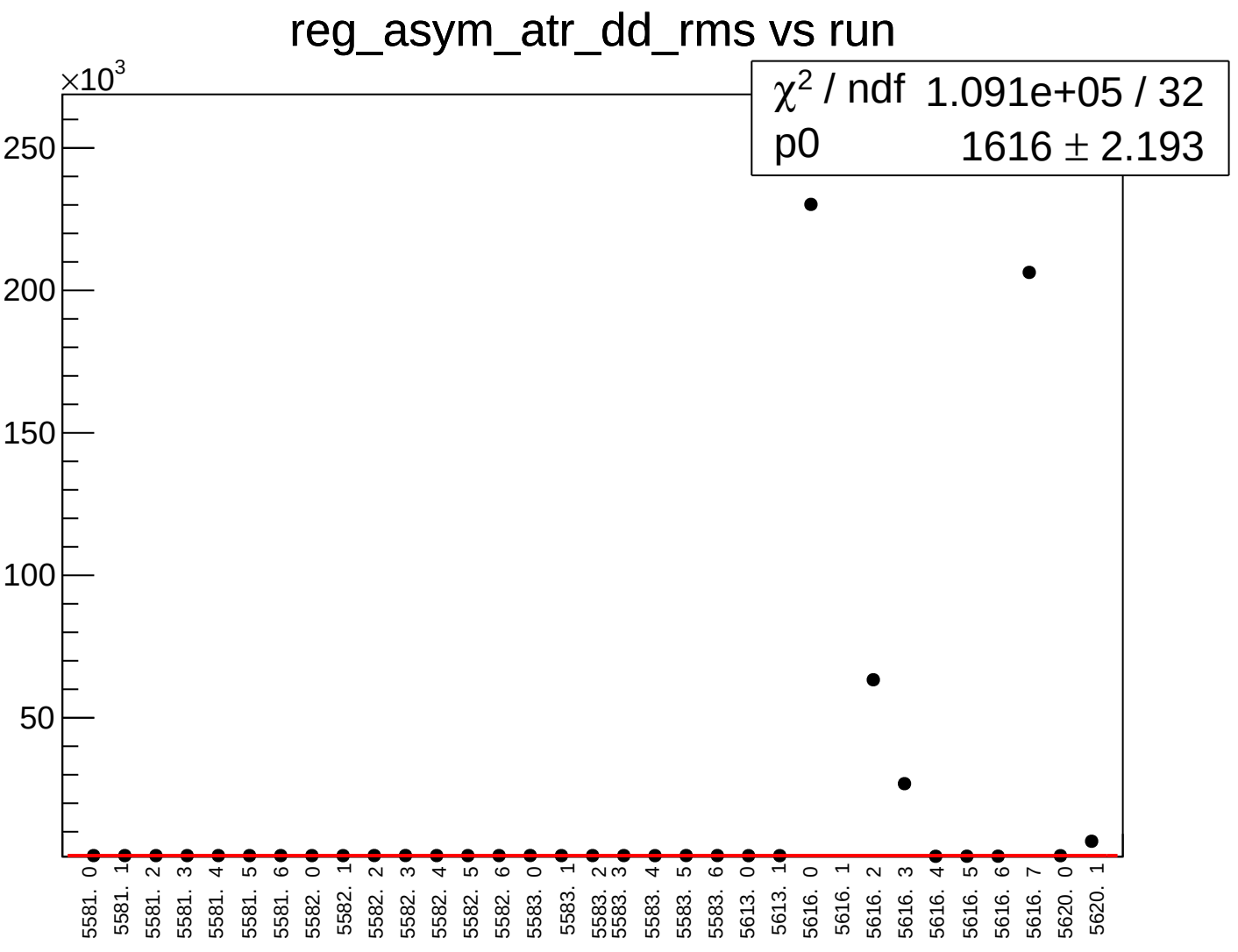

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 20.19 / 32
p0 0.1369 ± 0.1832
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.07584
Std Dev 0.7786
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

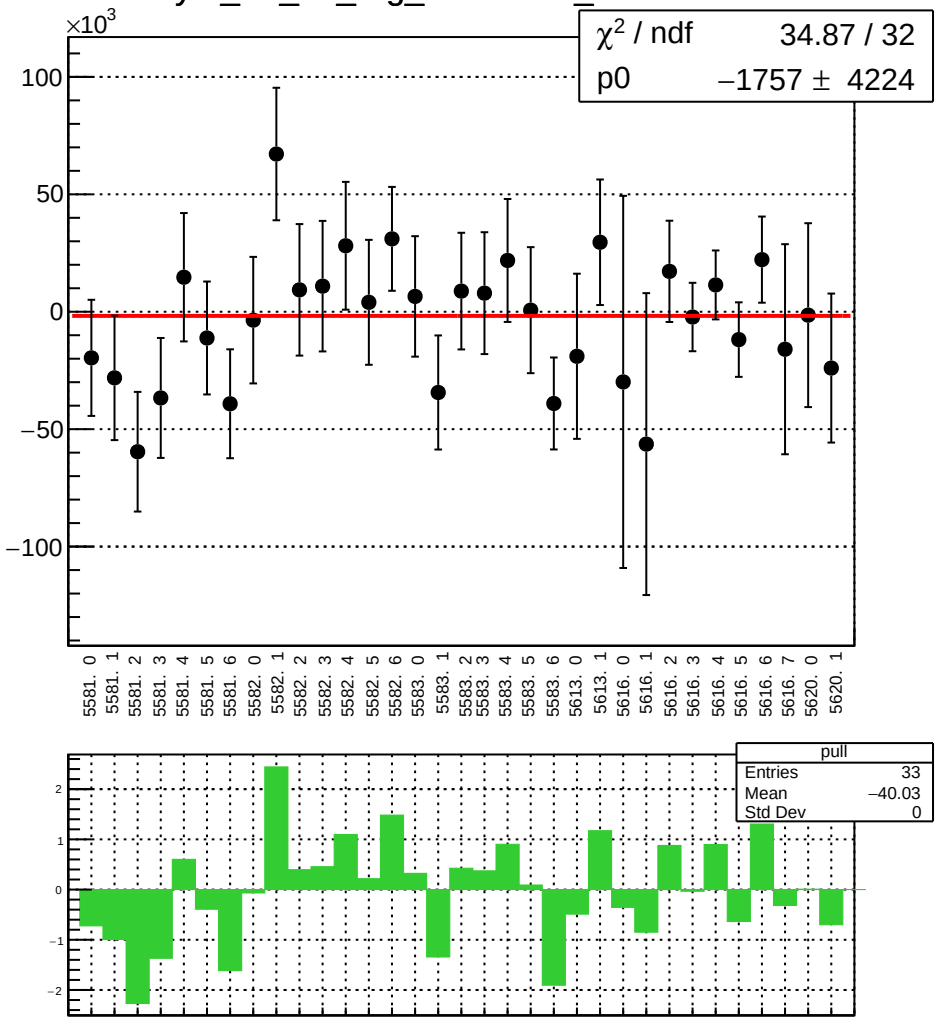

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.145e+05 / 32
p0 85.68 ± 0.1295
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

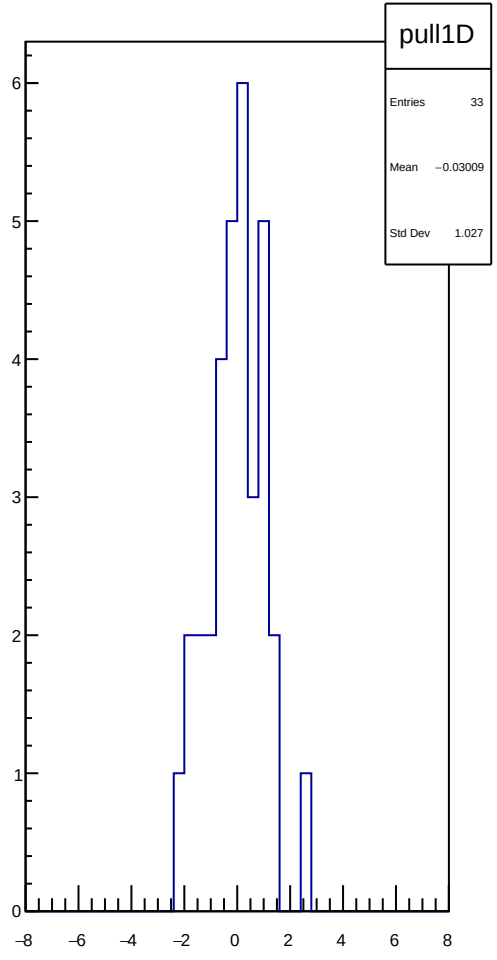

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 21.73 / 25
p0 −1.714e−13 ± 2.276e−13
8
6
4
2
0
−2
−4
−6
−8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 25.19
Std Dev 21.08
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.008709
Std Dev 0.9141
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

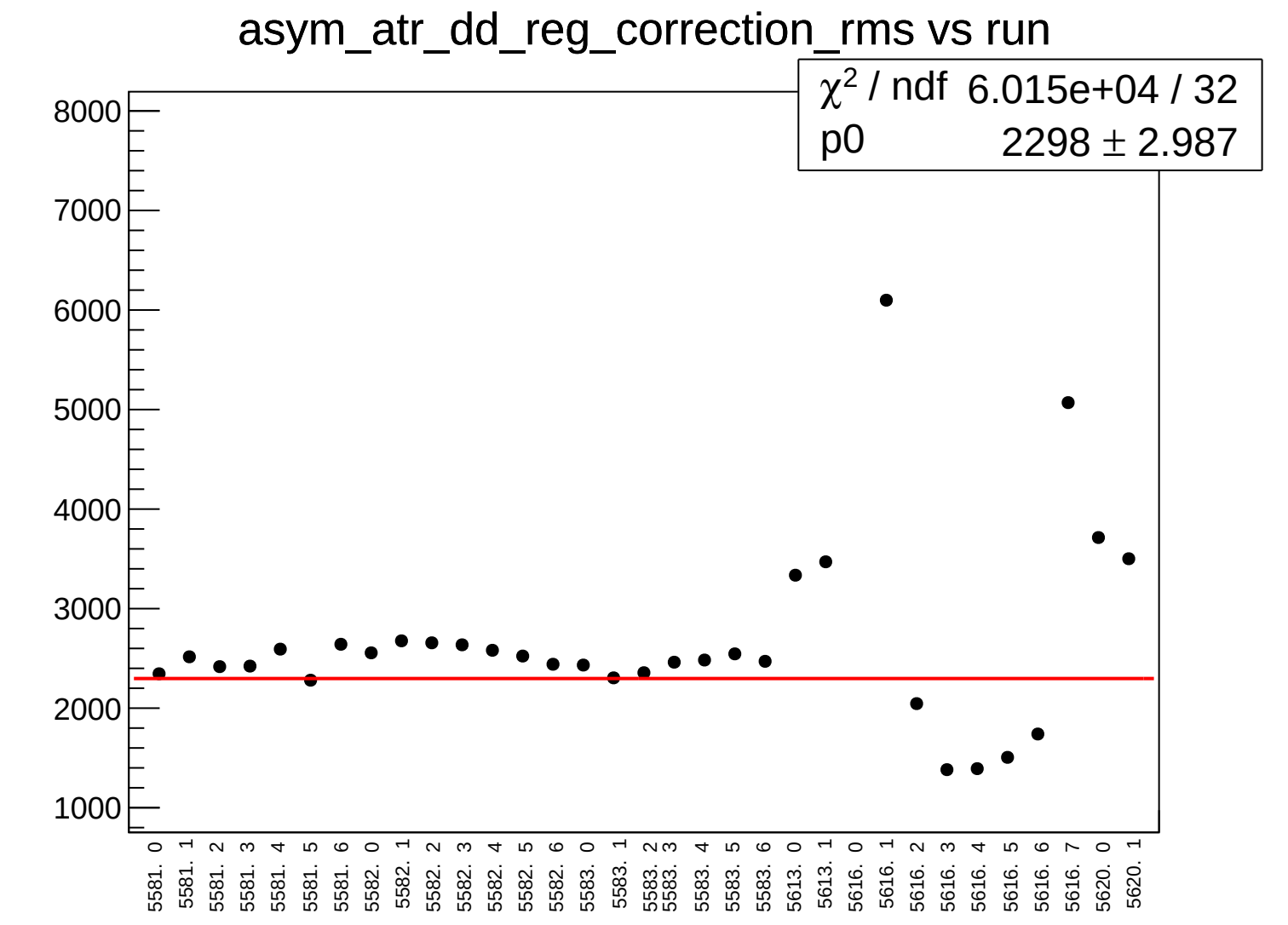

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.391e+05 / 25
p0 9.911e−11 ± 1.61e−13
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

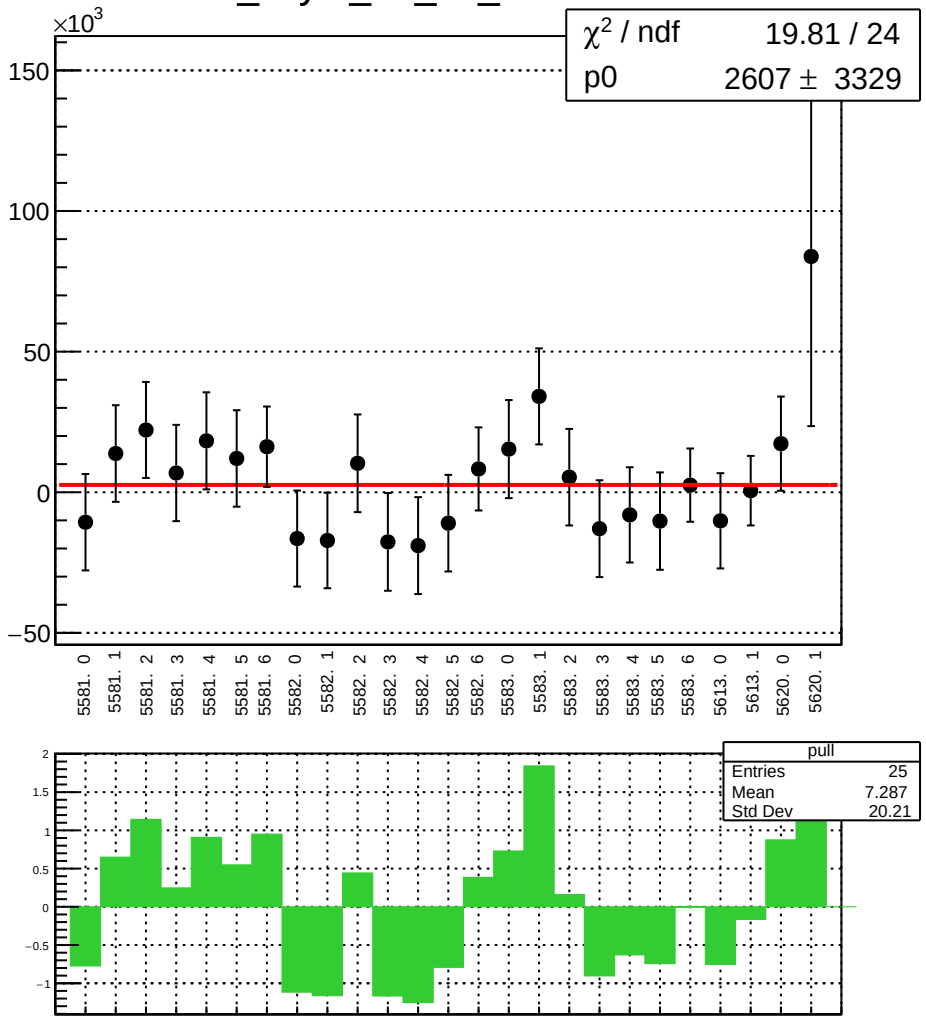

reg_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 19.92 / 24
p0 2610 ± 3329
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 8.02
Std Dev 20.13
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean 0.03199
Std Dev 0.892
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

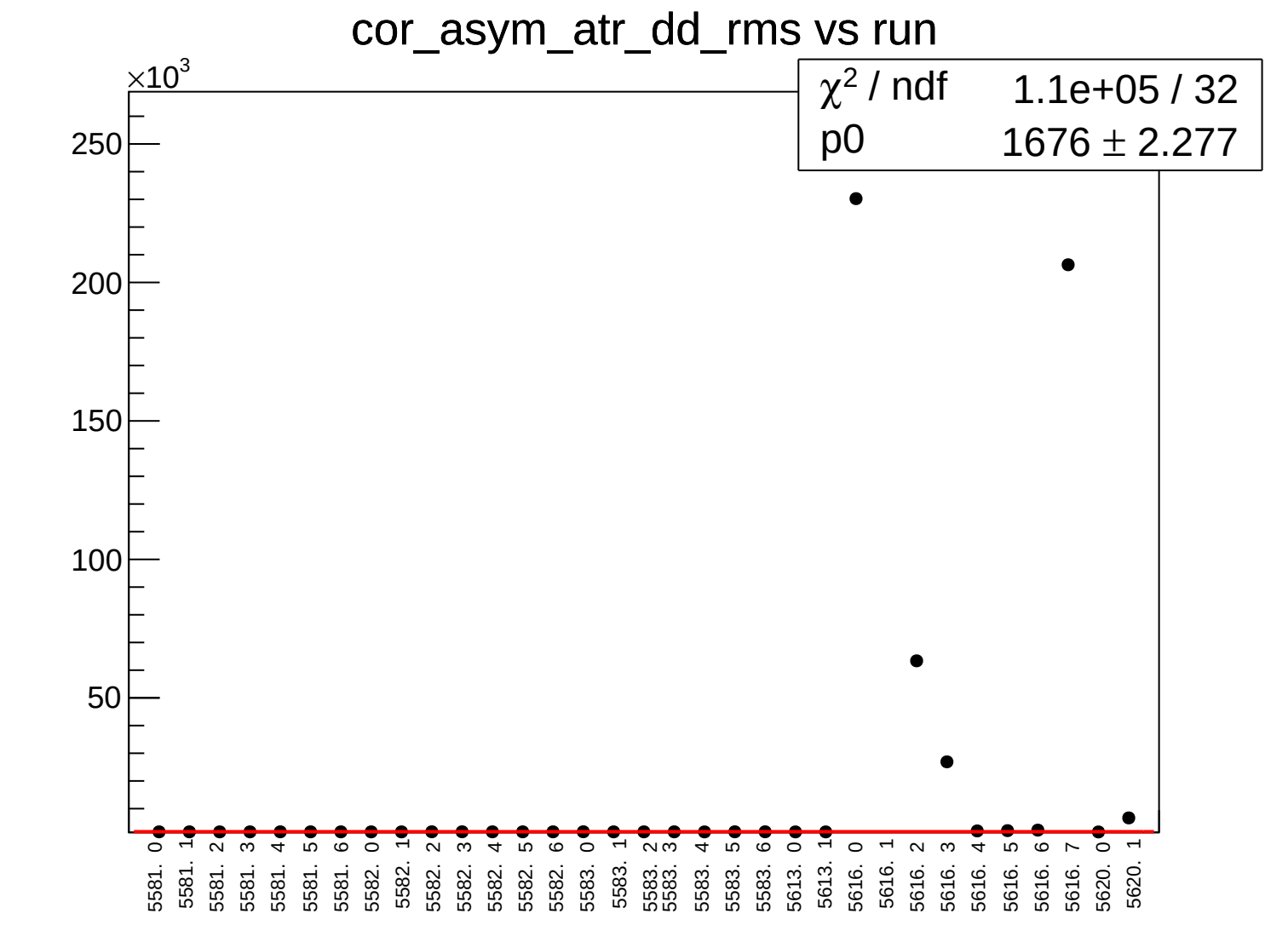

reg_asym_atr_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.091e+05 / 32
p0 1616 ± 2.193
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

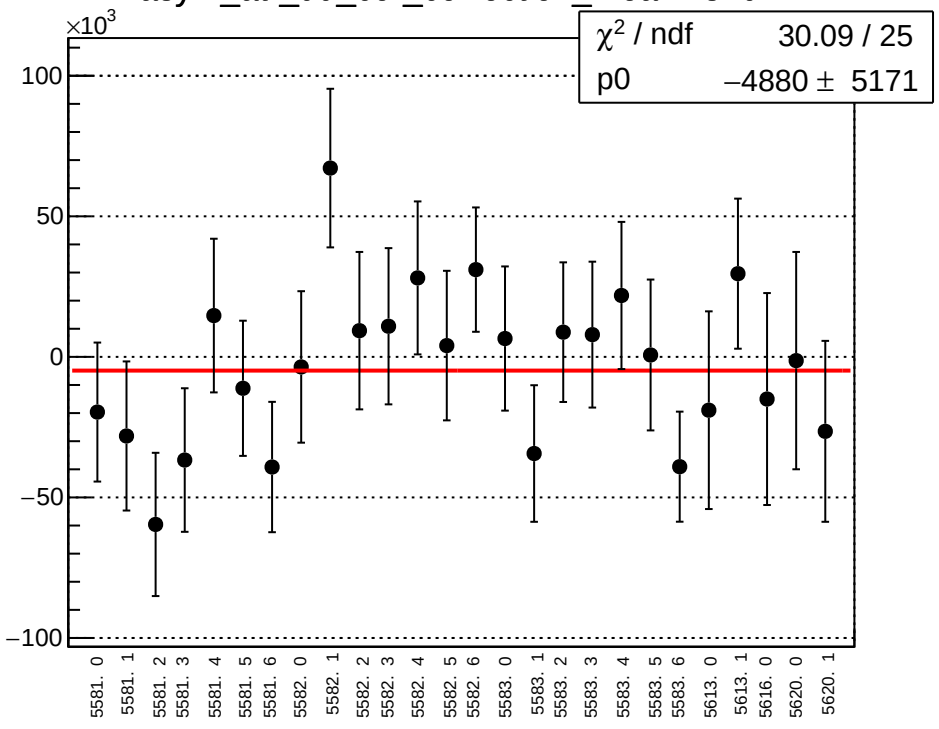

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 34.87 / 32
p0 −1757 ± 4224
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −40.03
Std Dev 0
2
1
0
−1
−2

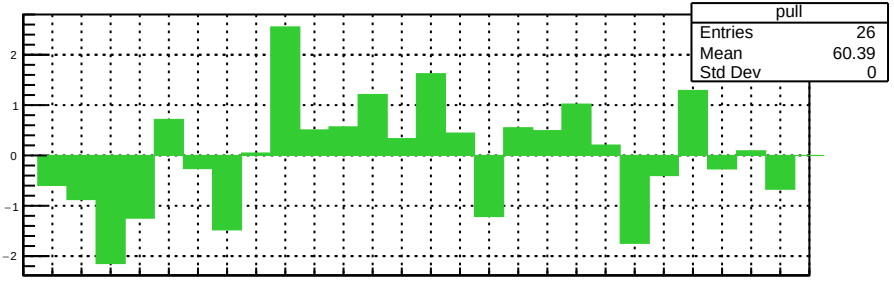

pull1D
Entries 33
Mean −0.03009
Std Dev 1.027
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

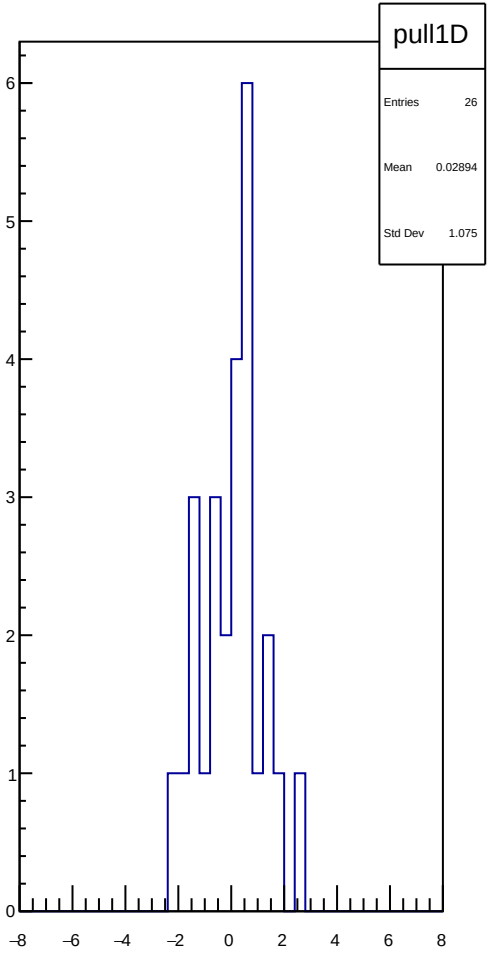

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 6.015e+04 / 32
p0 2298 ± 2.987
8000
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

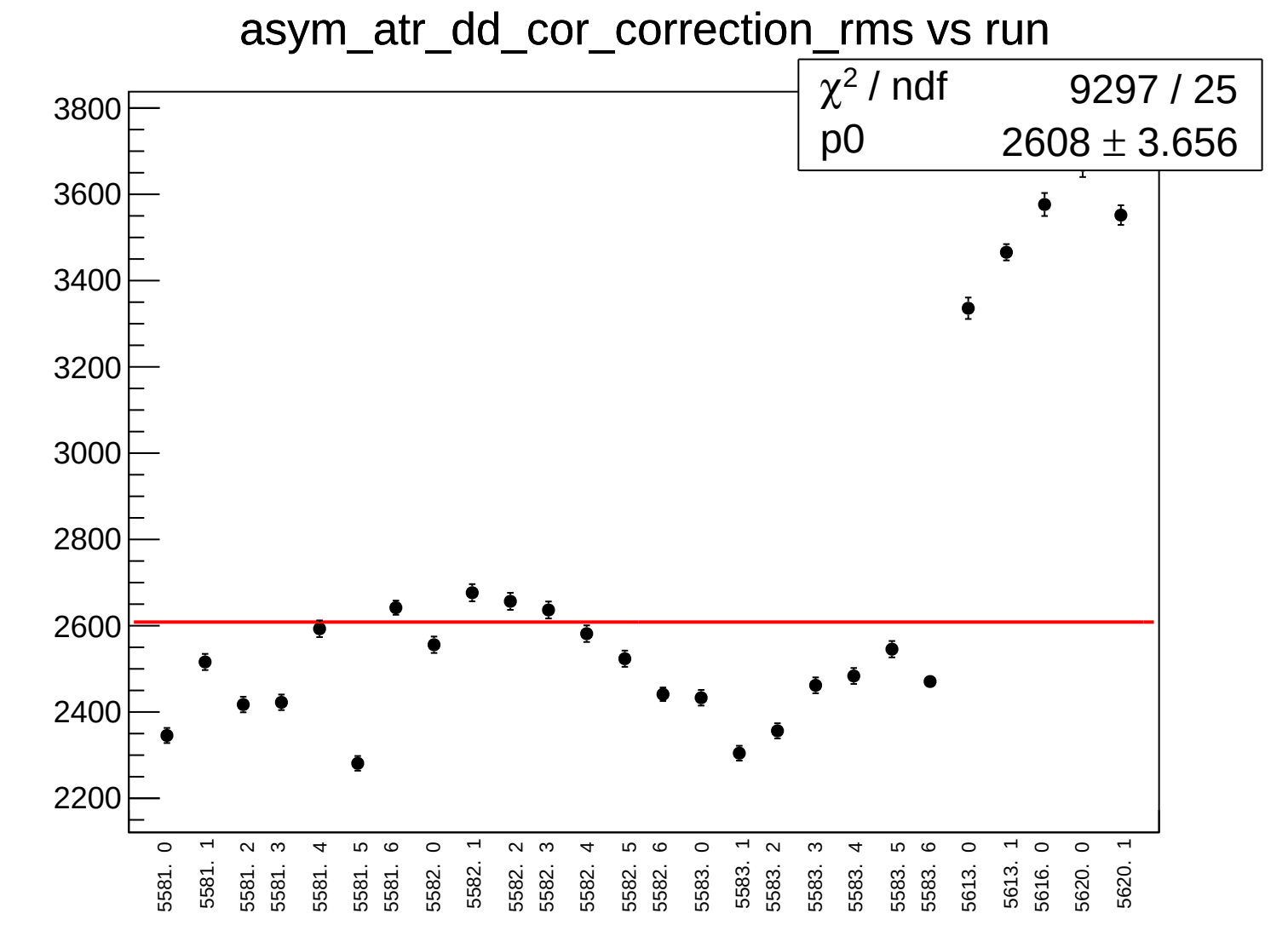

cor_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 19.81 / 24
p0 2607 ± 3329
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 7.287
Std Dev 20.21
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean 0.0308
Std Dev 0.8897
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

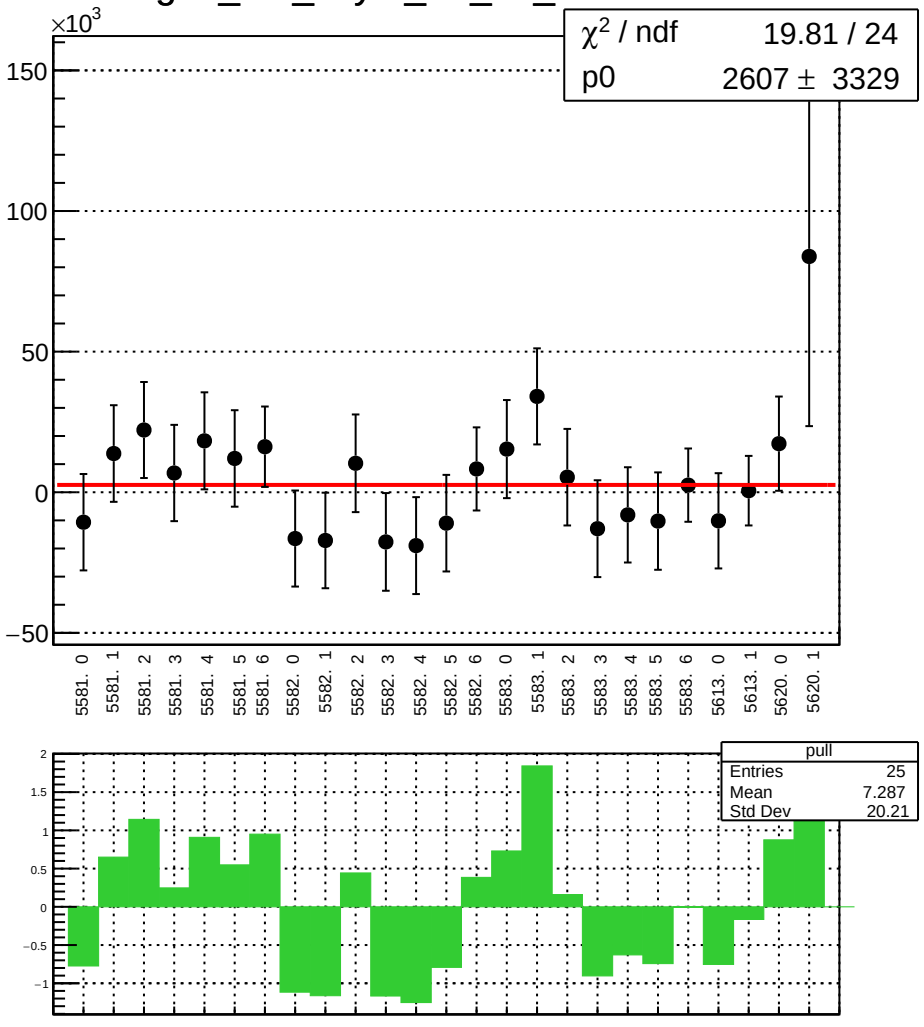

cor_asym_atr_dd_rms vs run
×10^3
χ^2 / ndf 1.1e+05 / 32
p0 1676 ± 2.277
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

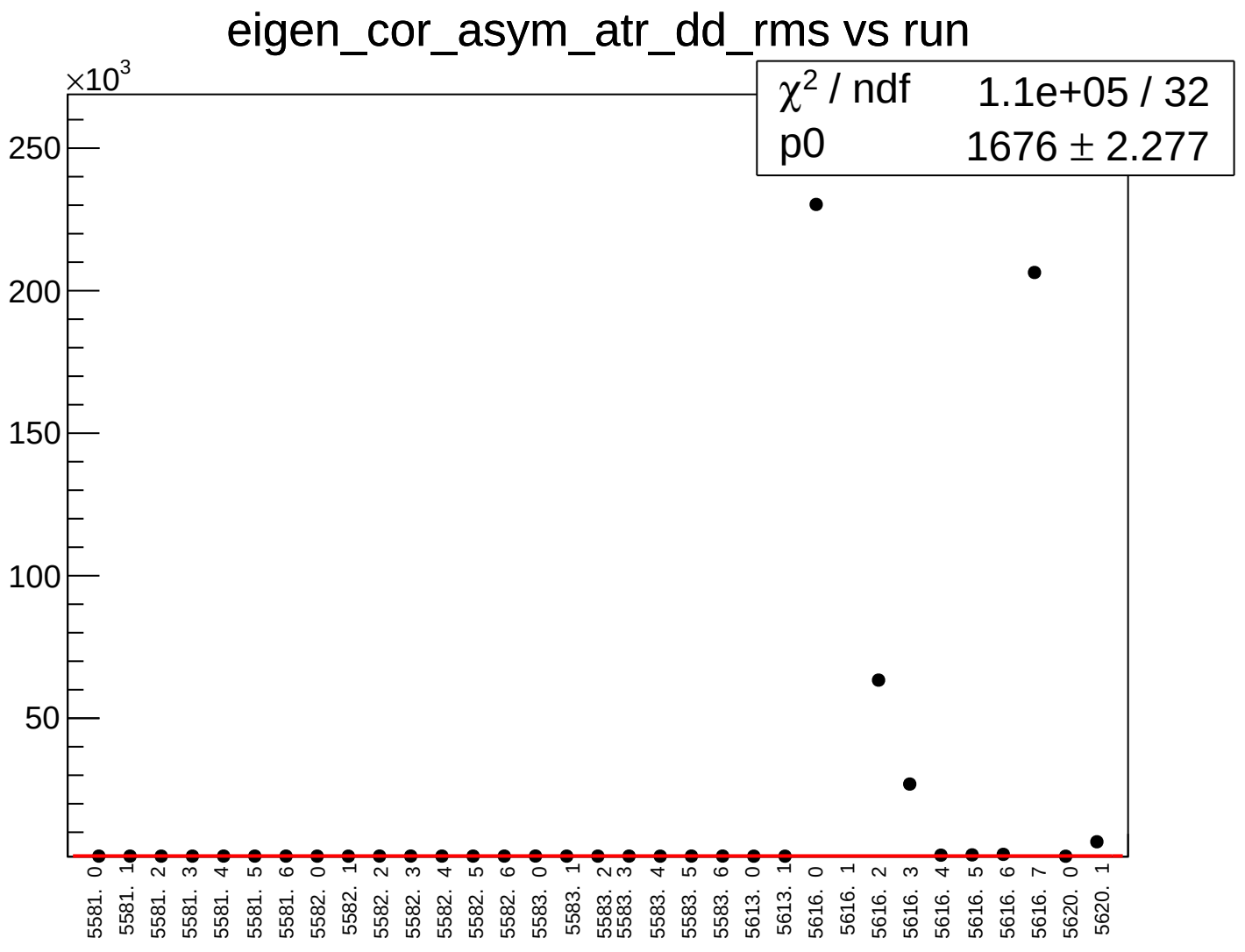

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 30.09 / 25
p0 −4880 ± 5171
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

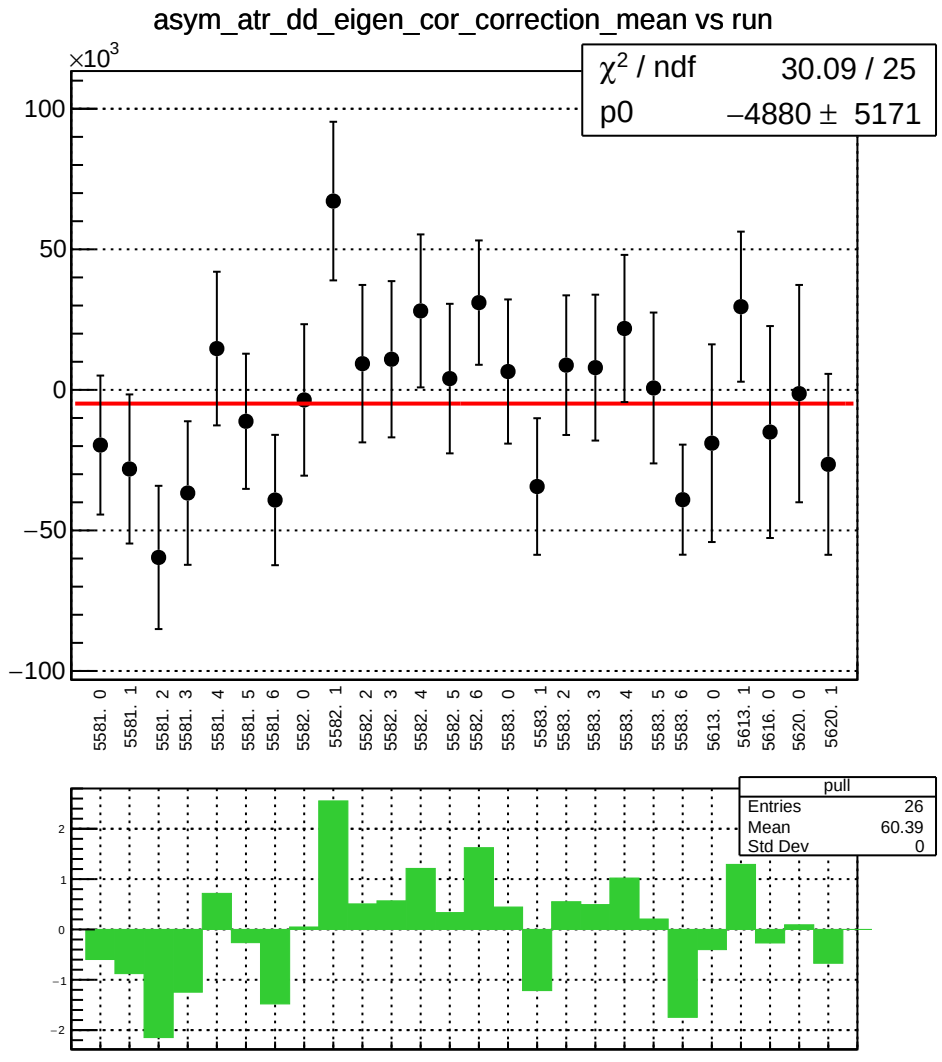

pull
Entries 26
Mean 60.39
Std Dev 0
2
1
0
−1
−2

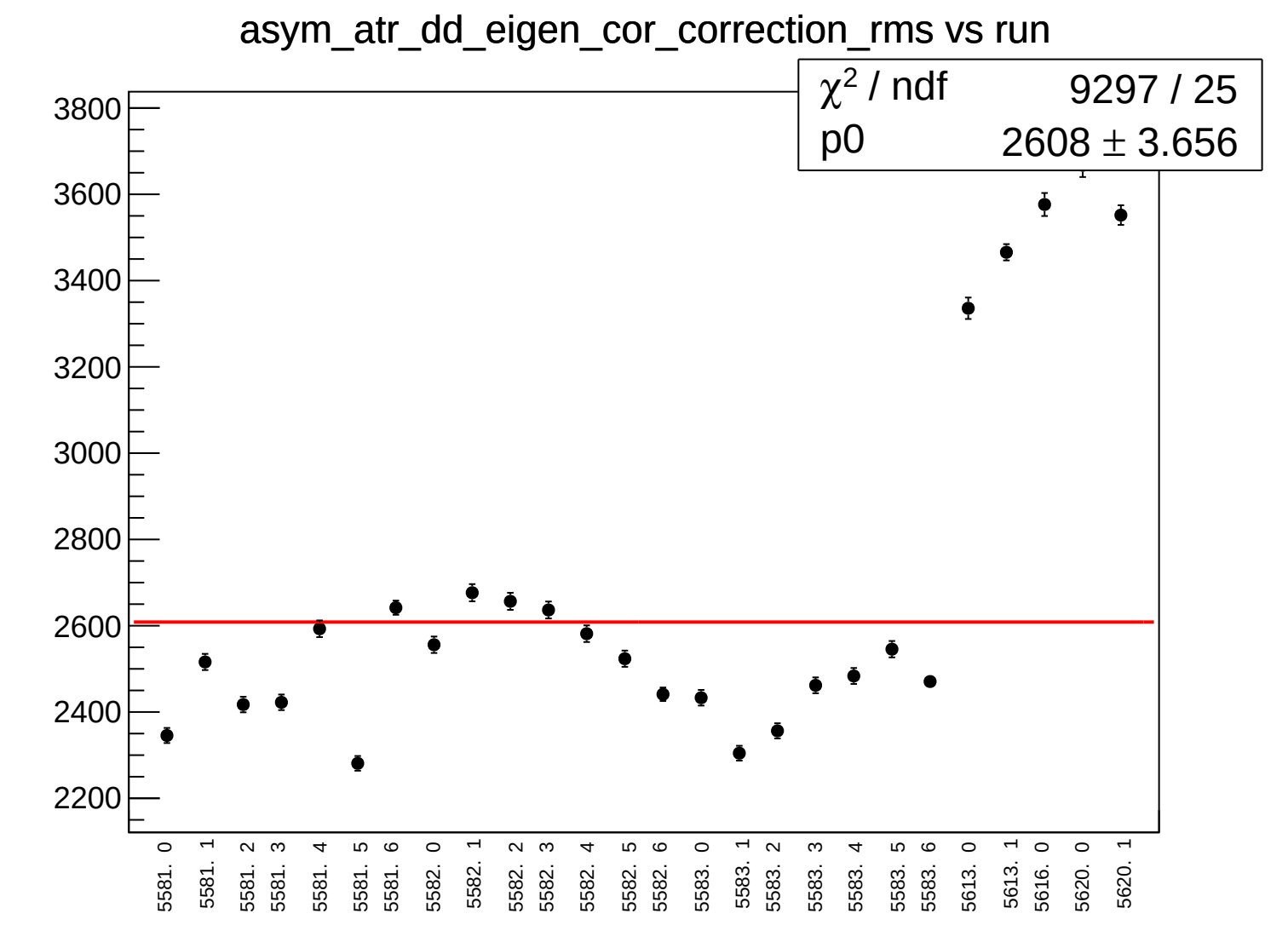

pull1D
Entries 26
Mean 0.02894
Std Dev 1.075
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

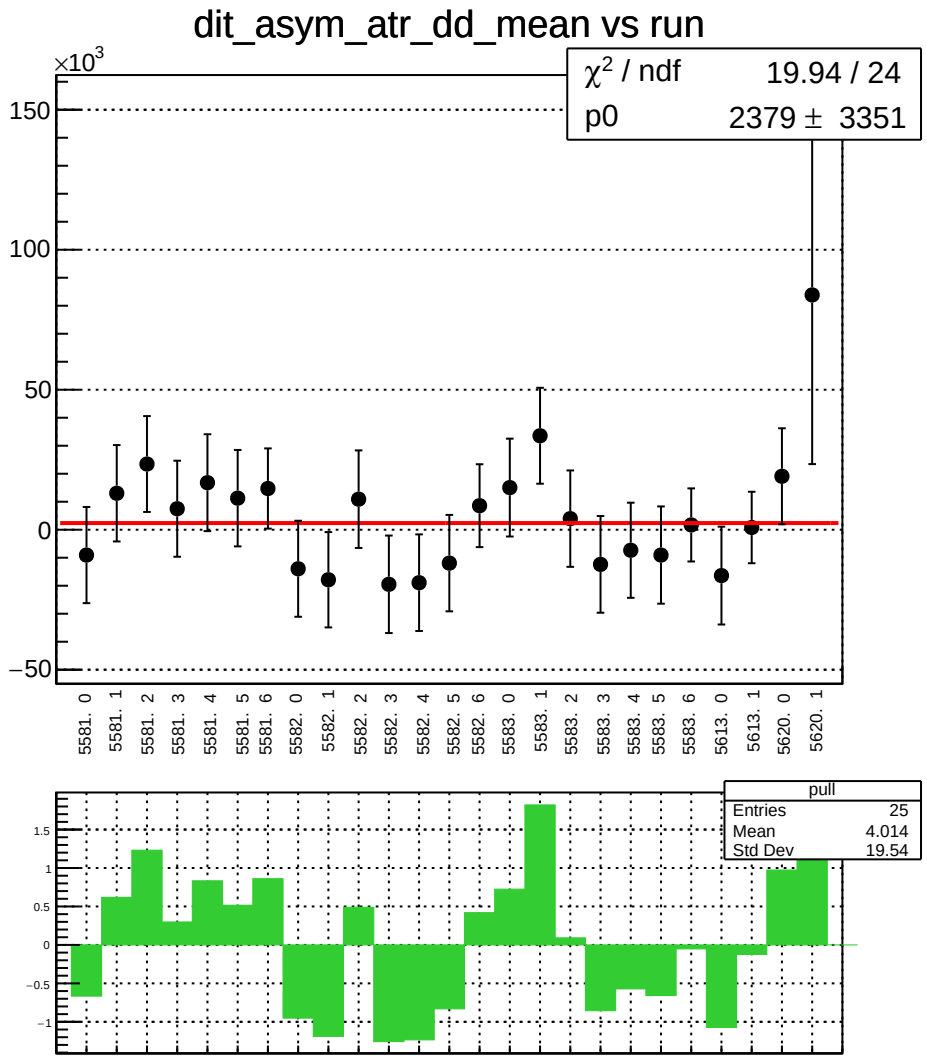

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 9297 / 25
p0 2608 ± 3.656
3800
3600
3400
3200
3000
2800
2600
2400
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

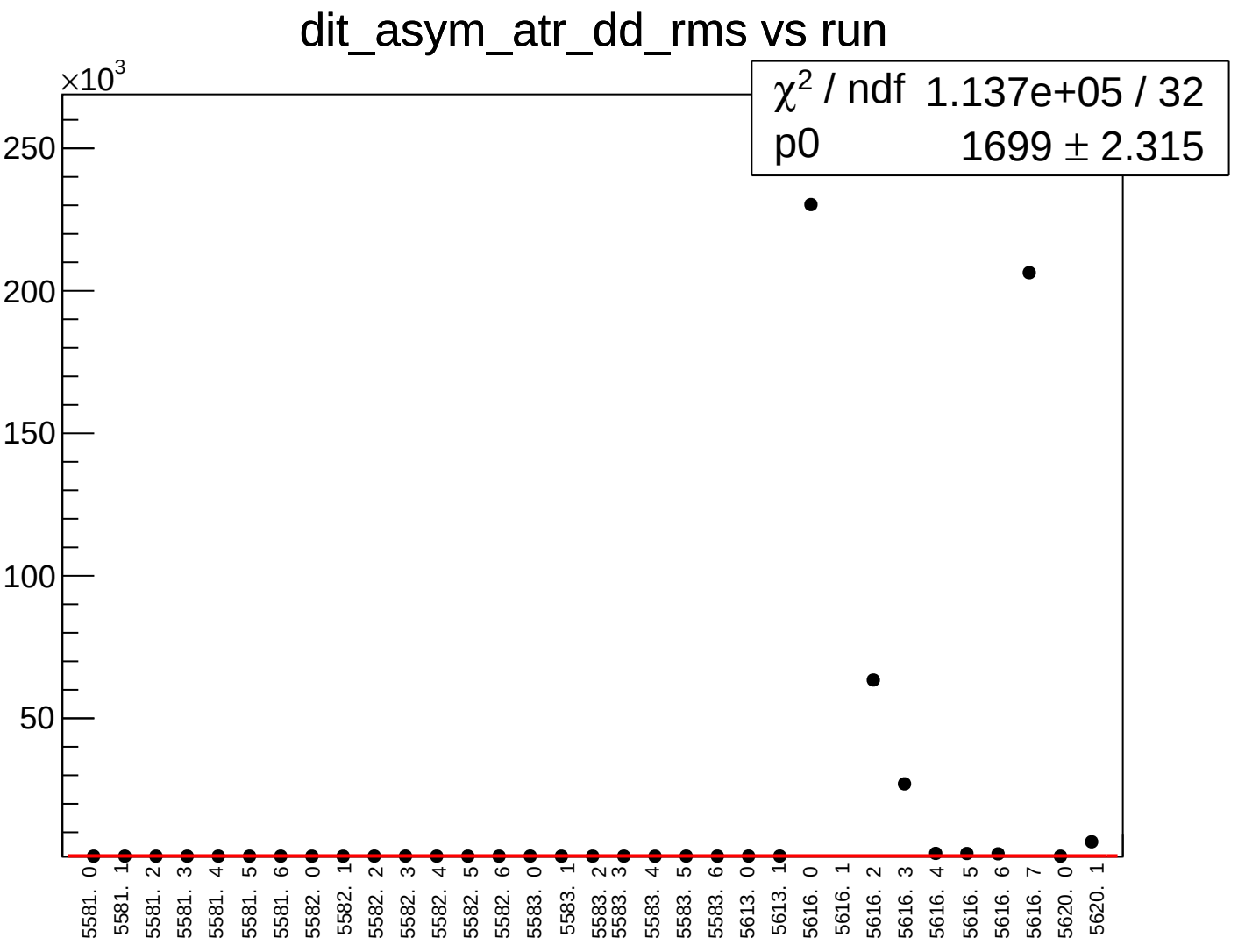

eigen_cor_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 19.81 / 24
p0 2607 ± 3329
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 7.287
Std Dev 20.21
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean 0.0308
Std Dev 0.8897
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

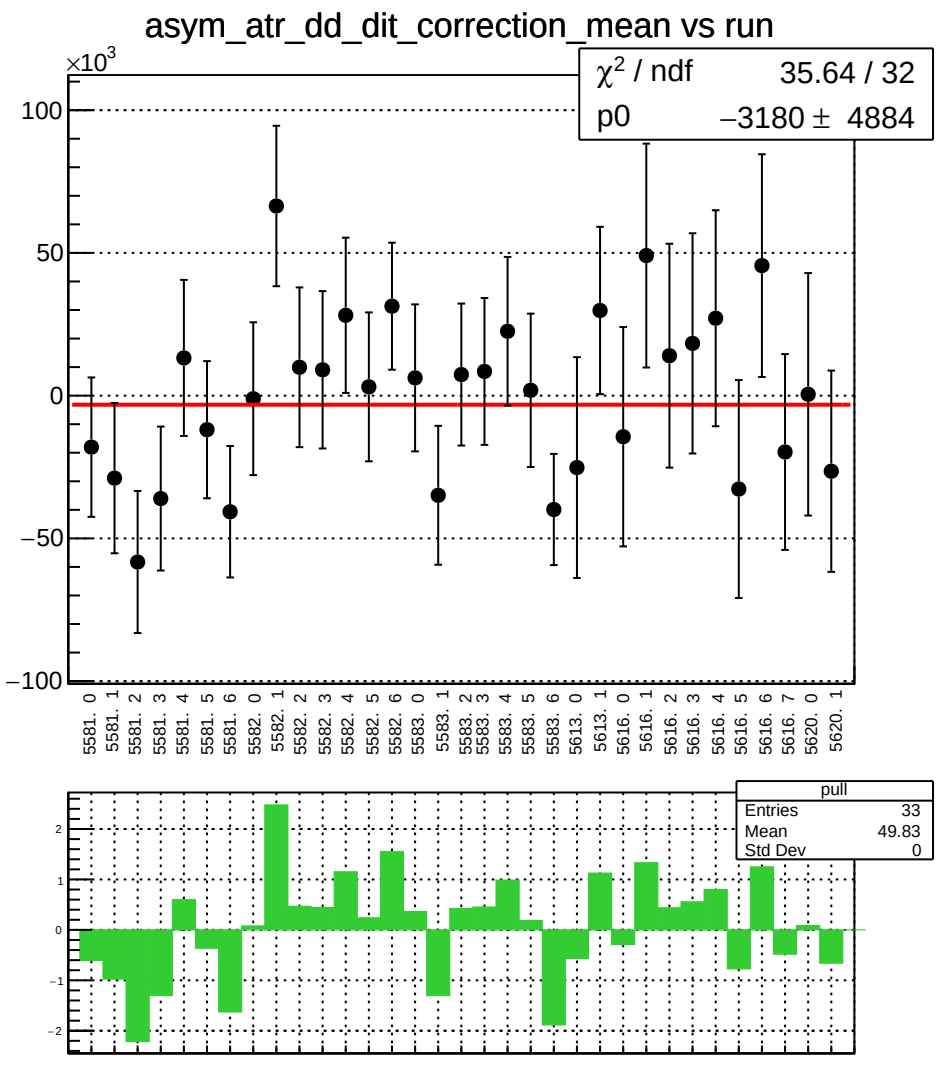

eigen_cor_asym_atr_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.1e+05 / 32
p0 1676 ± 2.277
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

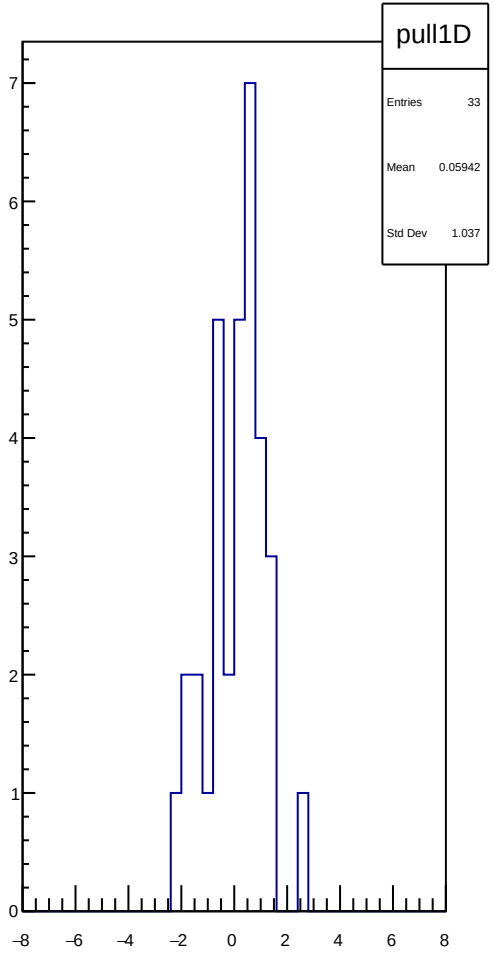

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 30.09 / 25
p0 −4880 ± 5171
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 60.39
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.02894
Std Dev 1.075
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

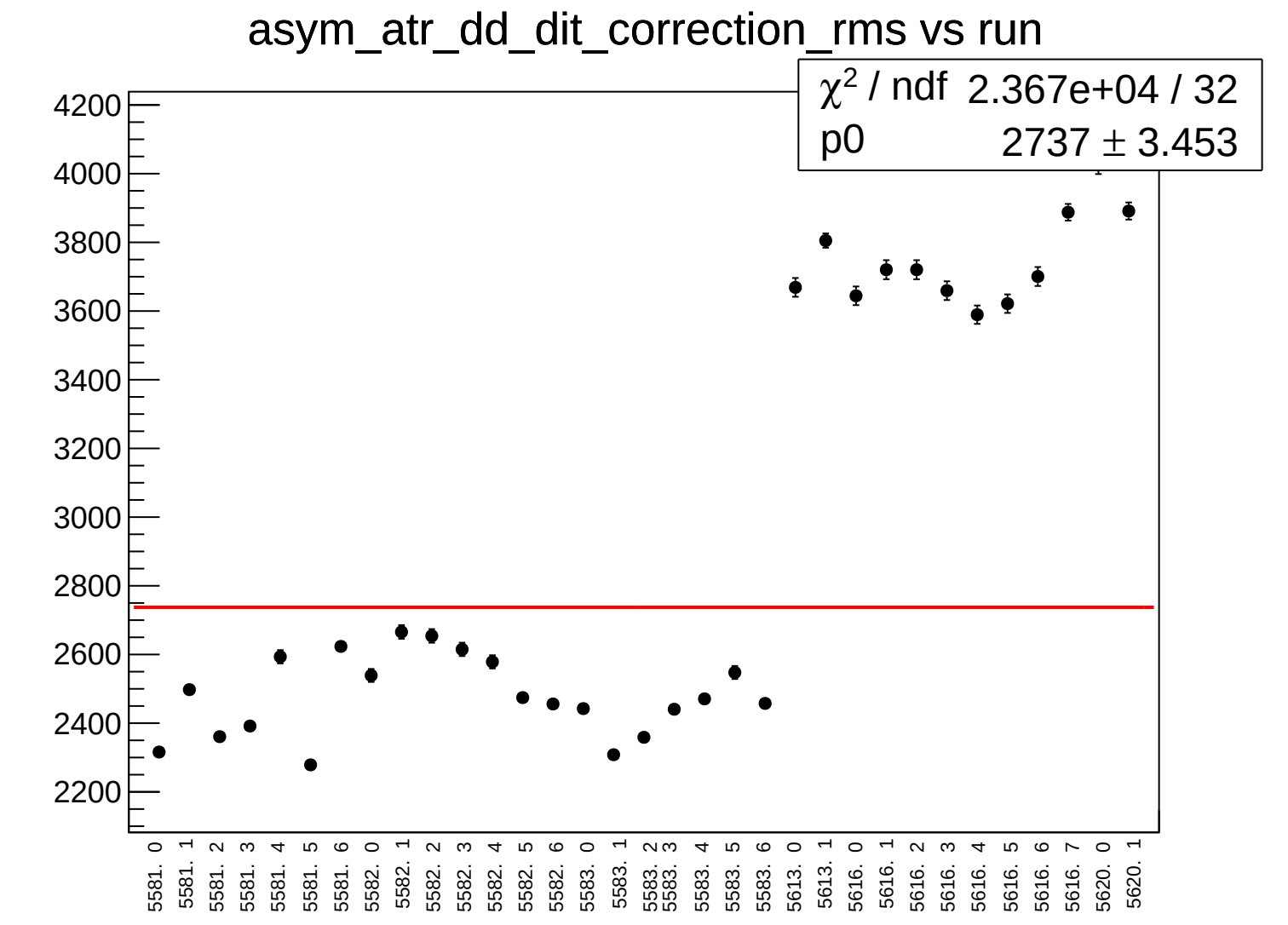

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 9297 / 25
p0 2608 ± 3.656
3800
3600
3400
3200
3000
2800
2600
2400
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

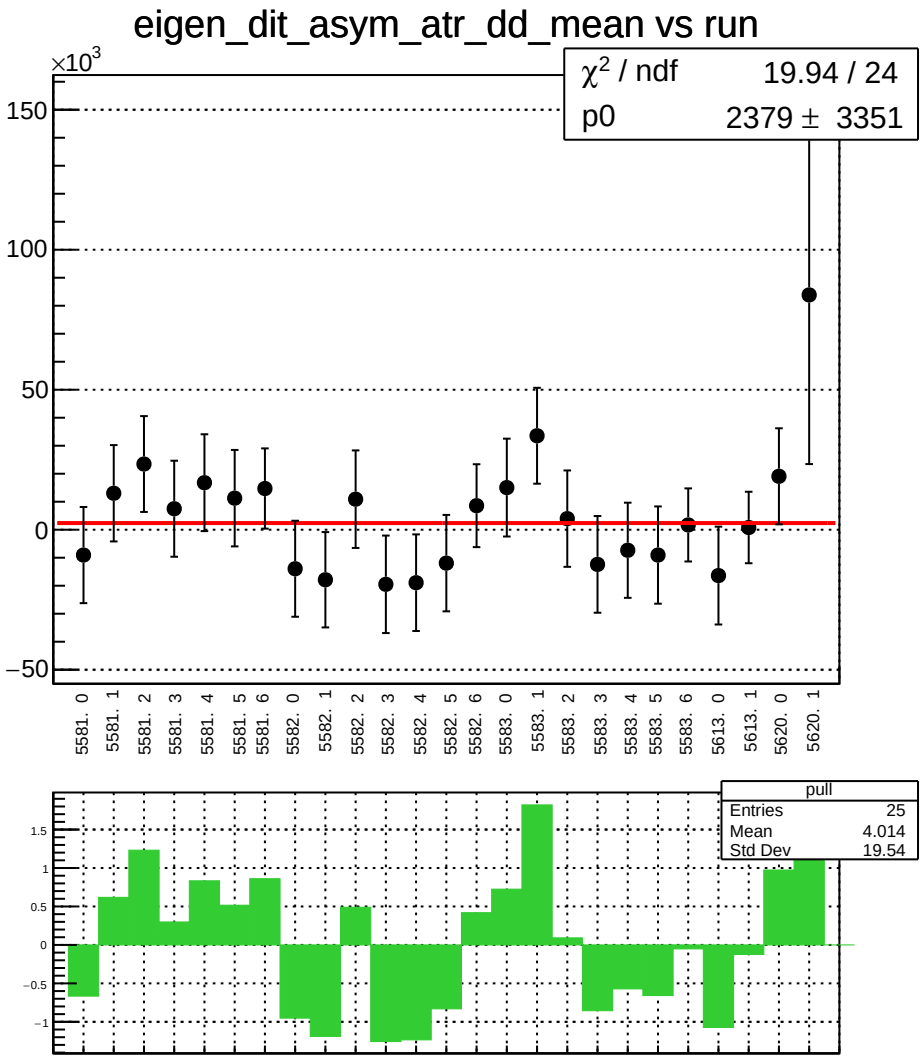

dit_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 19.94 / 24
p0 2379 ± 3351
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 4.014
Std Dev 19.54
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean 0.03063
Std Dev 0.8926
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

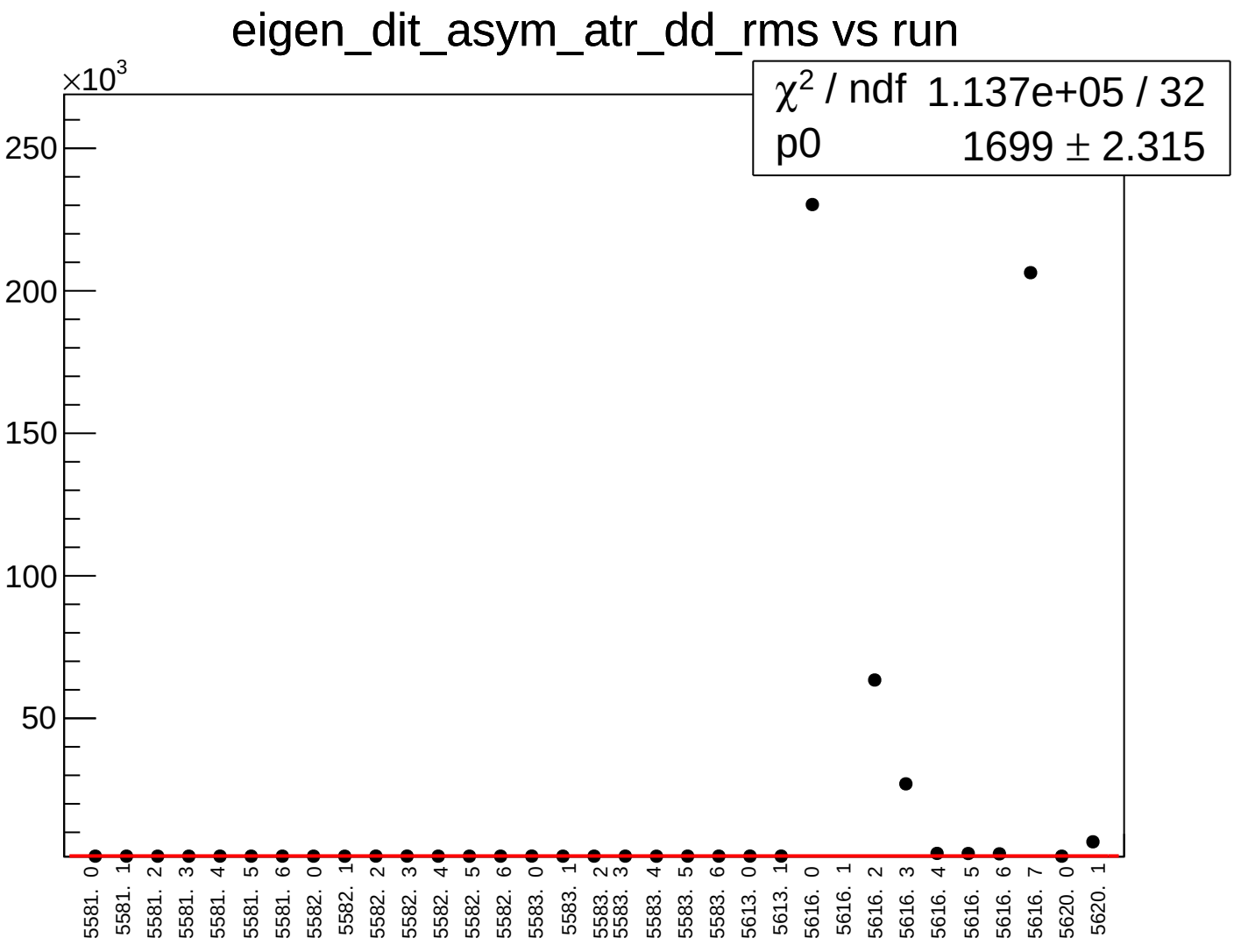

dit_asym_atr_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.137e+05 / 32
p0 1699 ± 2.315
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

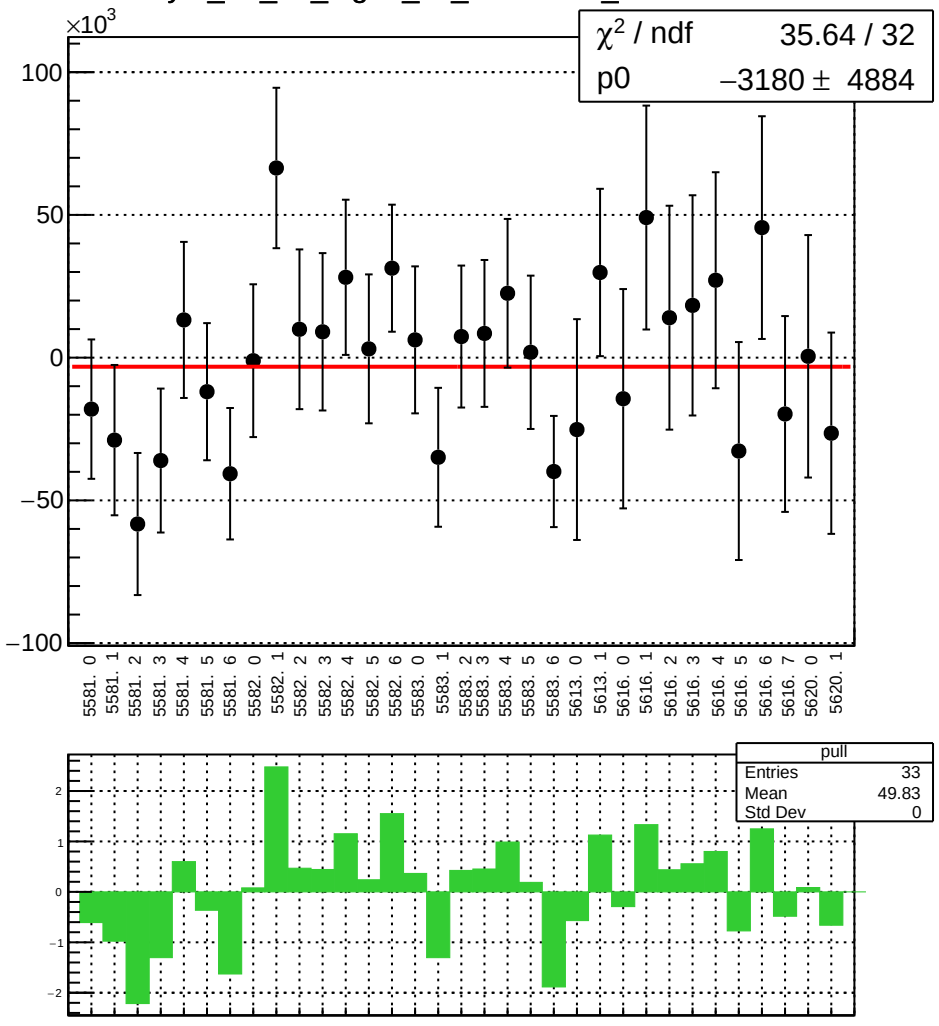

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 35.64 / 32
p0 −3180 ± 4884
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.83
Std Dev 0
2
1
0
−1
−2

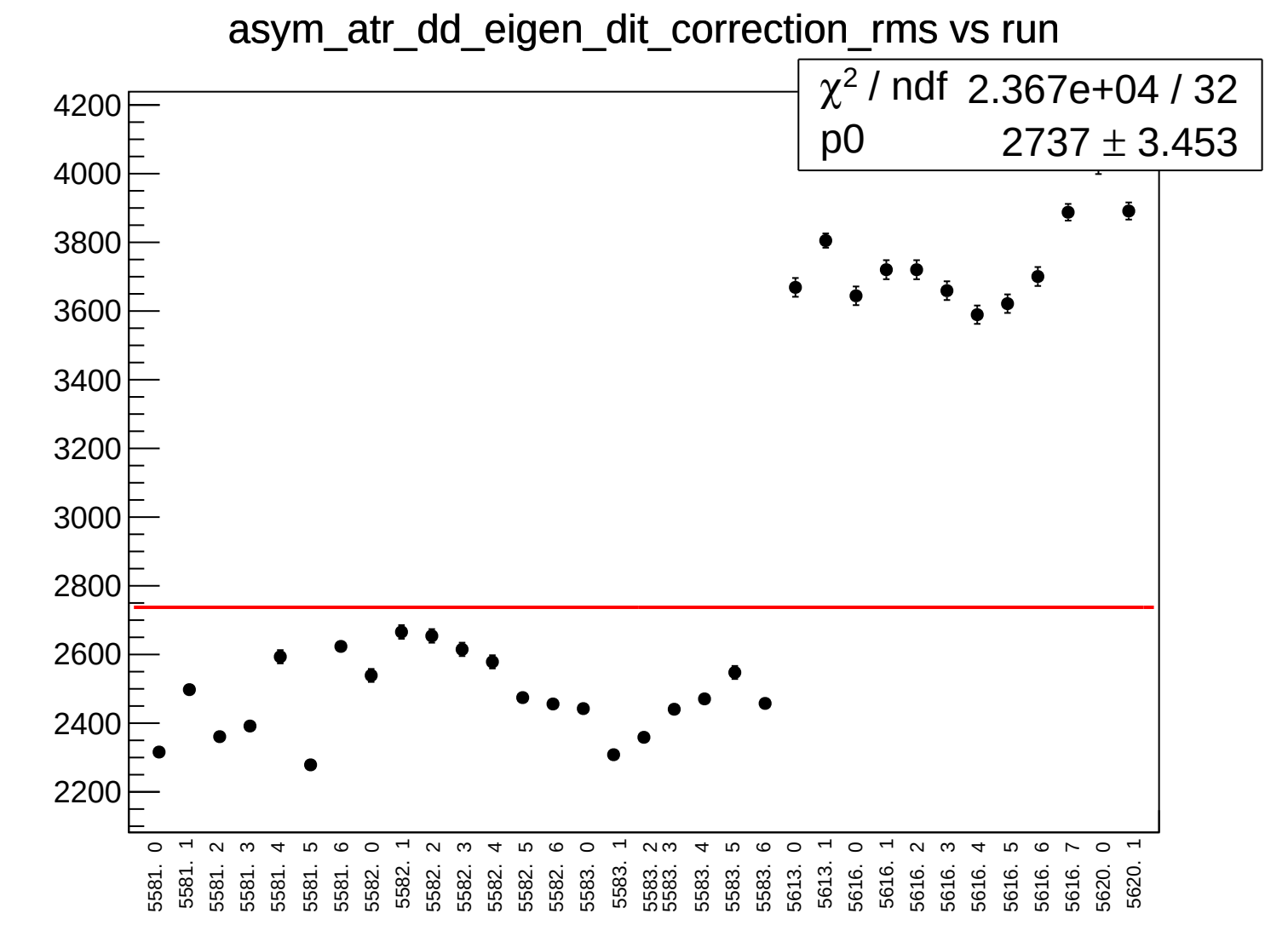

pull1D
Entries 33
Mean 0.05942
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

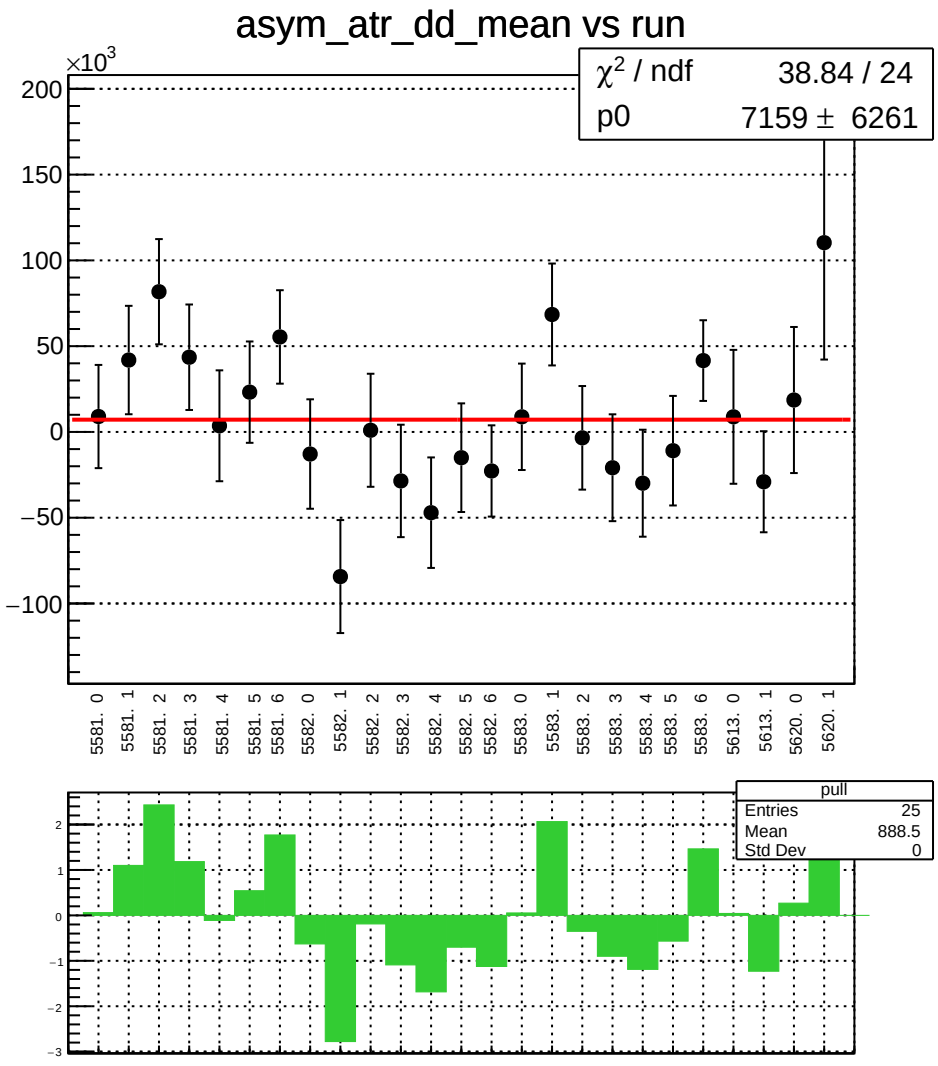

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 2.367e+04 / 32
p0 2737 ± 3.453
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

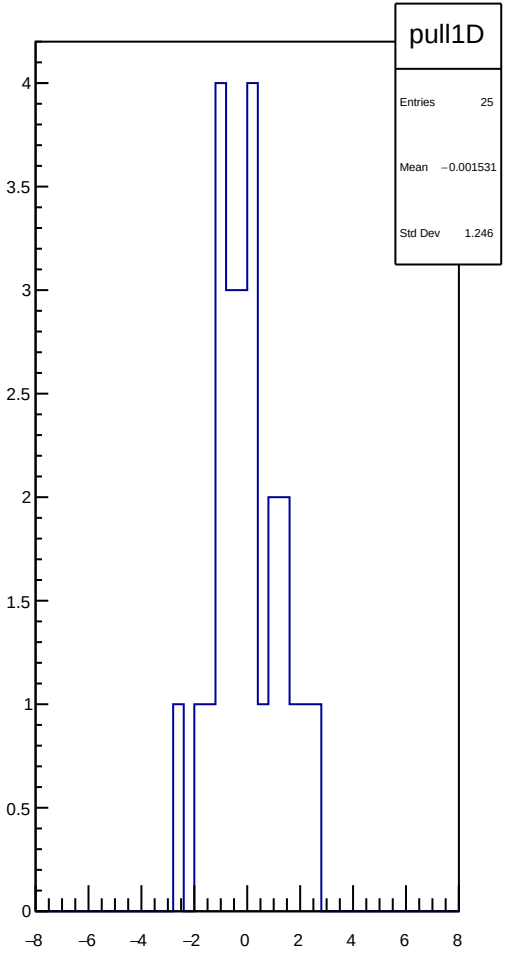

eigen_dit_asym_atr_dd_mean vs run
×10^3
χ² / ndf 19.94 / 24
p0 2379 ± 3351
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 4.014
Std Dev 19.54
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 25
Mean 0.03063
Std Dev 0.8926
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

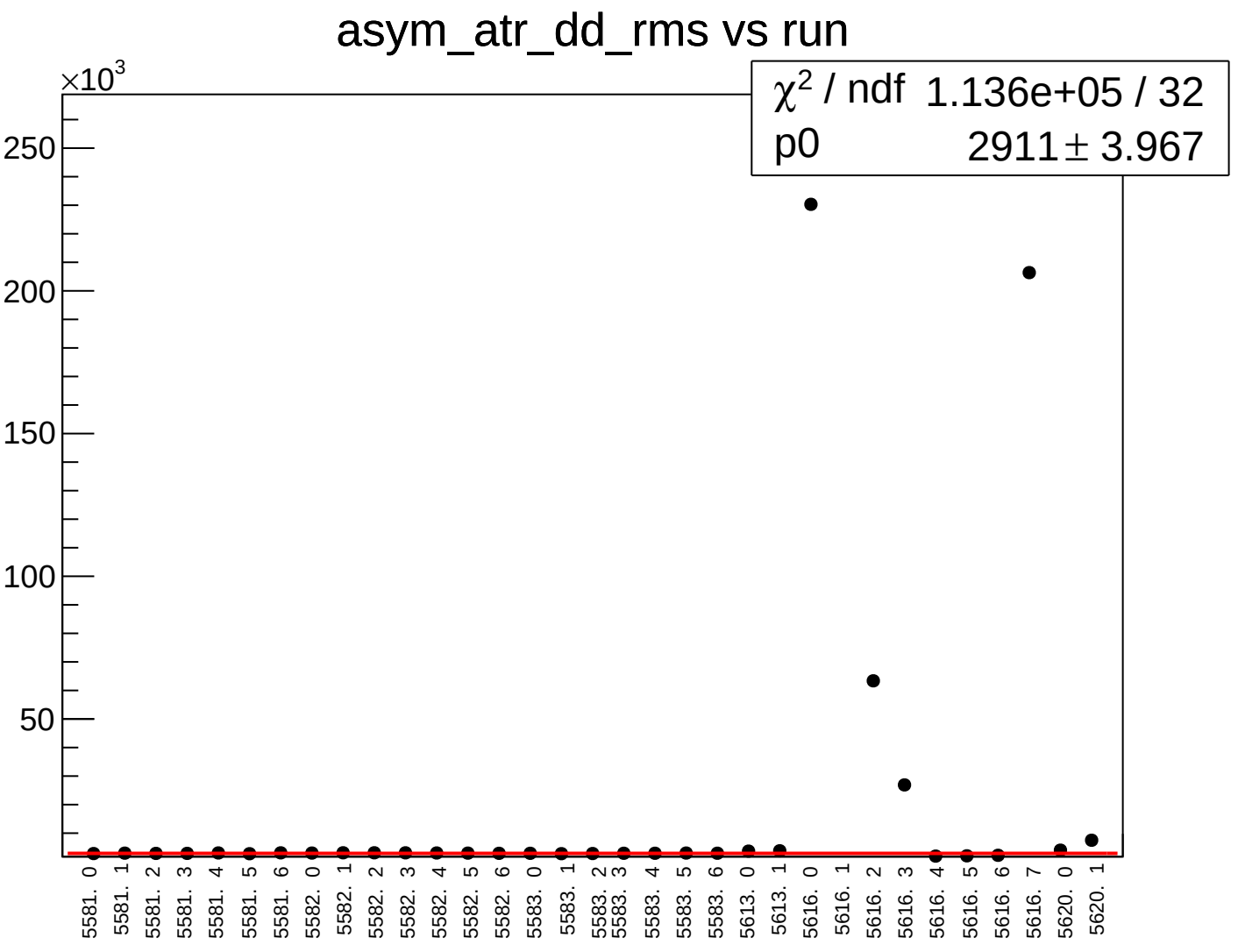

eigen_dit_asym_atr_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.137e+05 / 32
p0 1699 ± 2.315
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

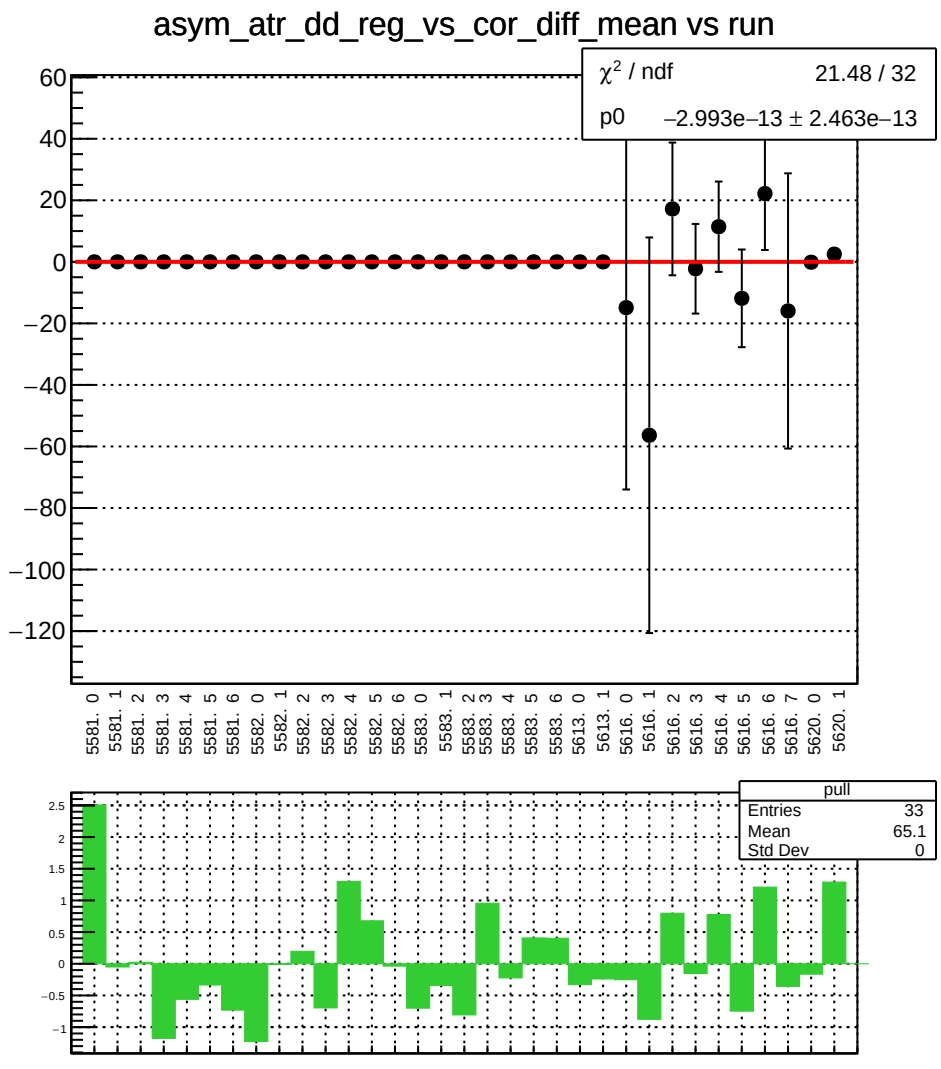

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 35.64 / 32
p0 −3180 ± 4884
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.83
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.05942
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

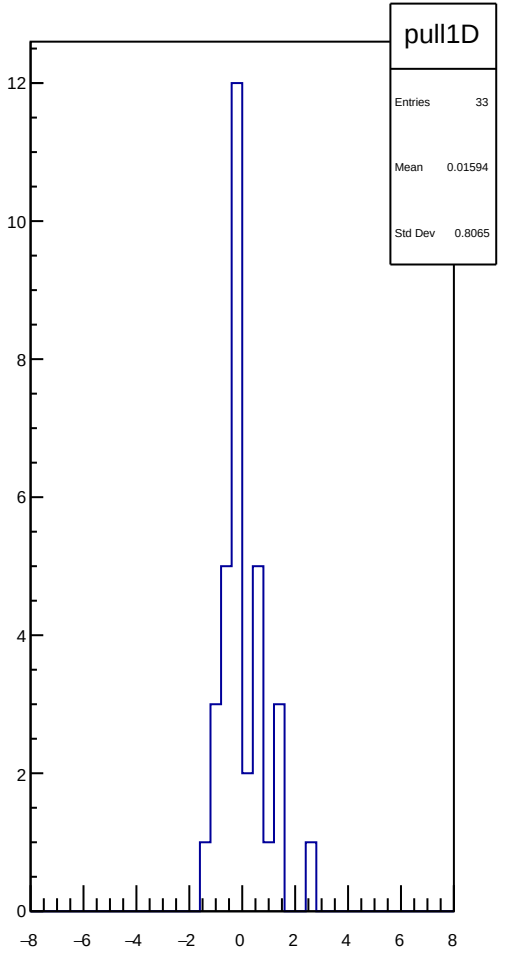

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.367e+04 / 32
p0 2737 ± 3.453
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

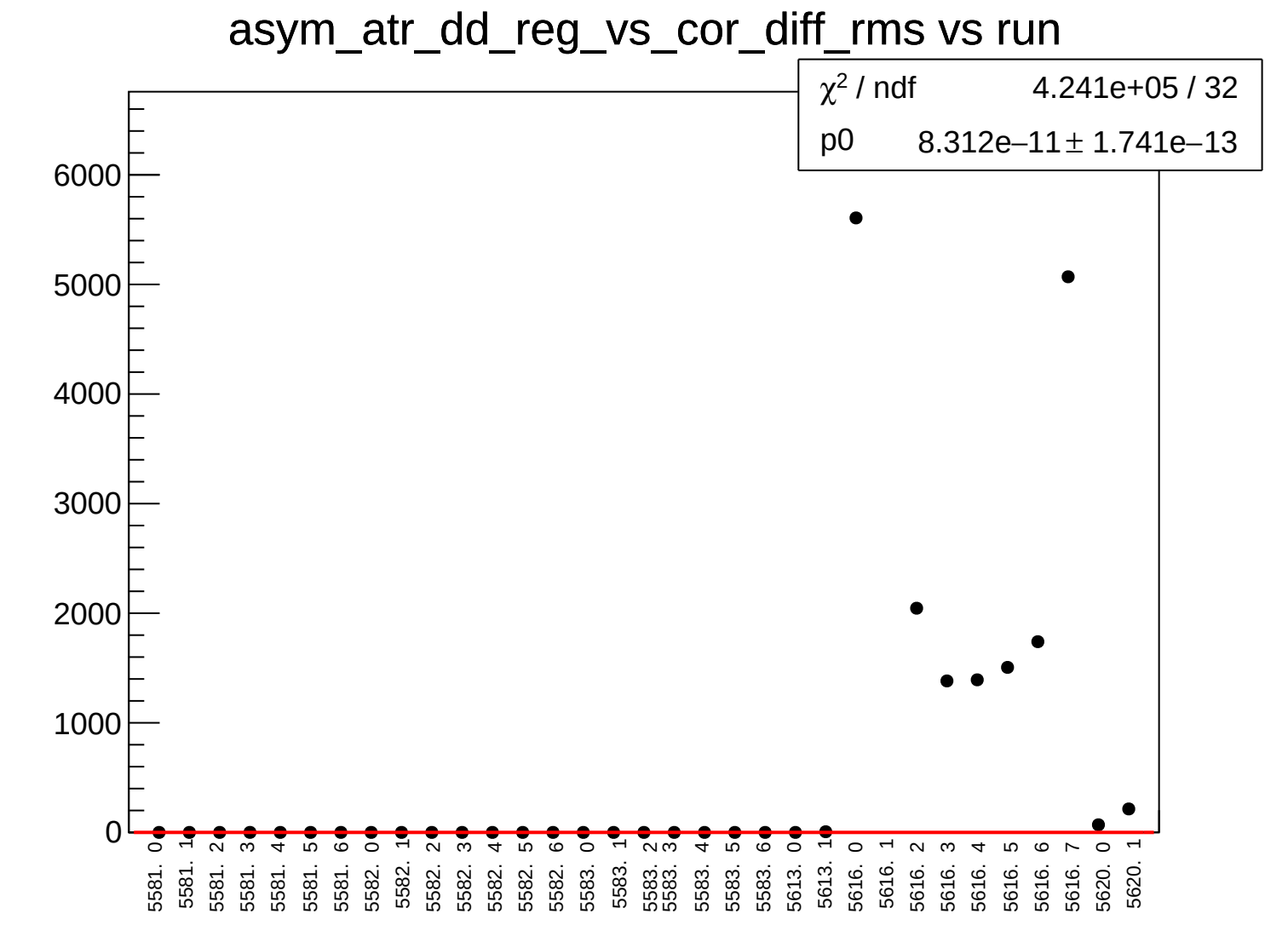

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 38.84 / 24
p0 7159 ± 6261
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 888.5
Std Dev 0
2
1
0
−1
−2
−3

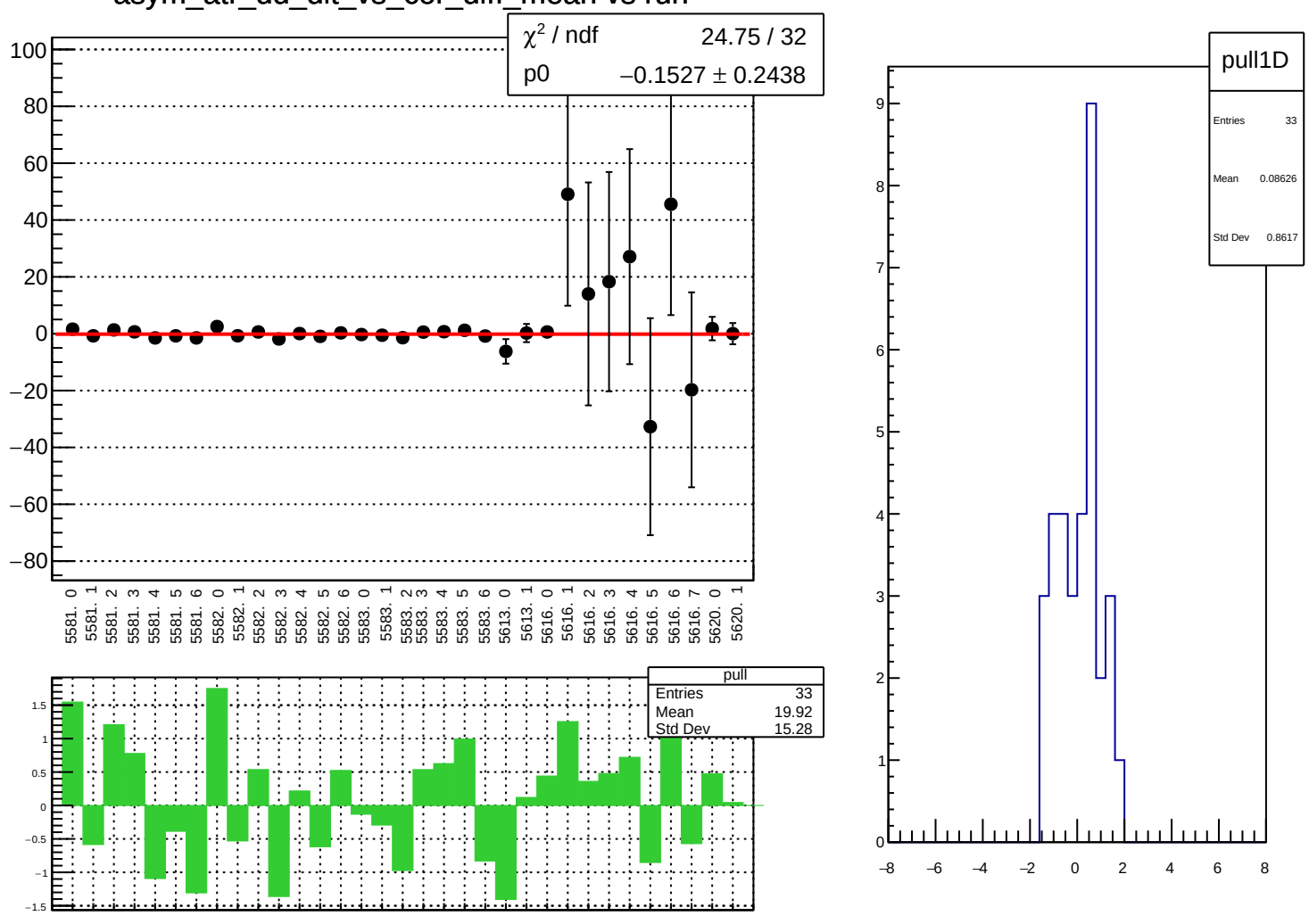

pull1D
Entries 25
Mean −0.001531
Std Dev 1.246
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

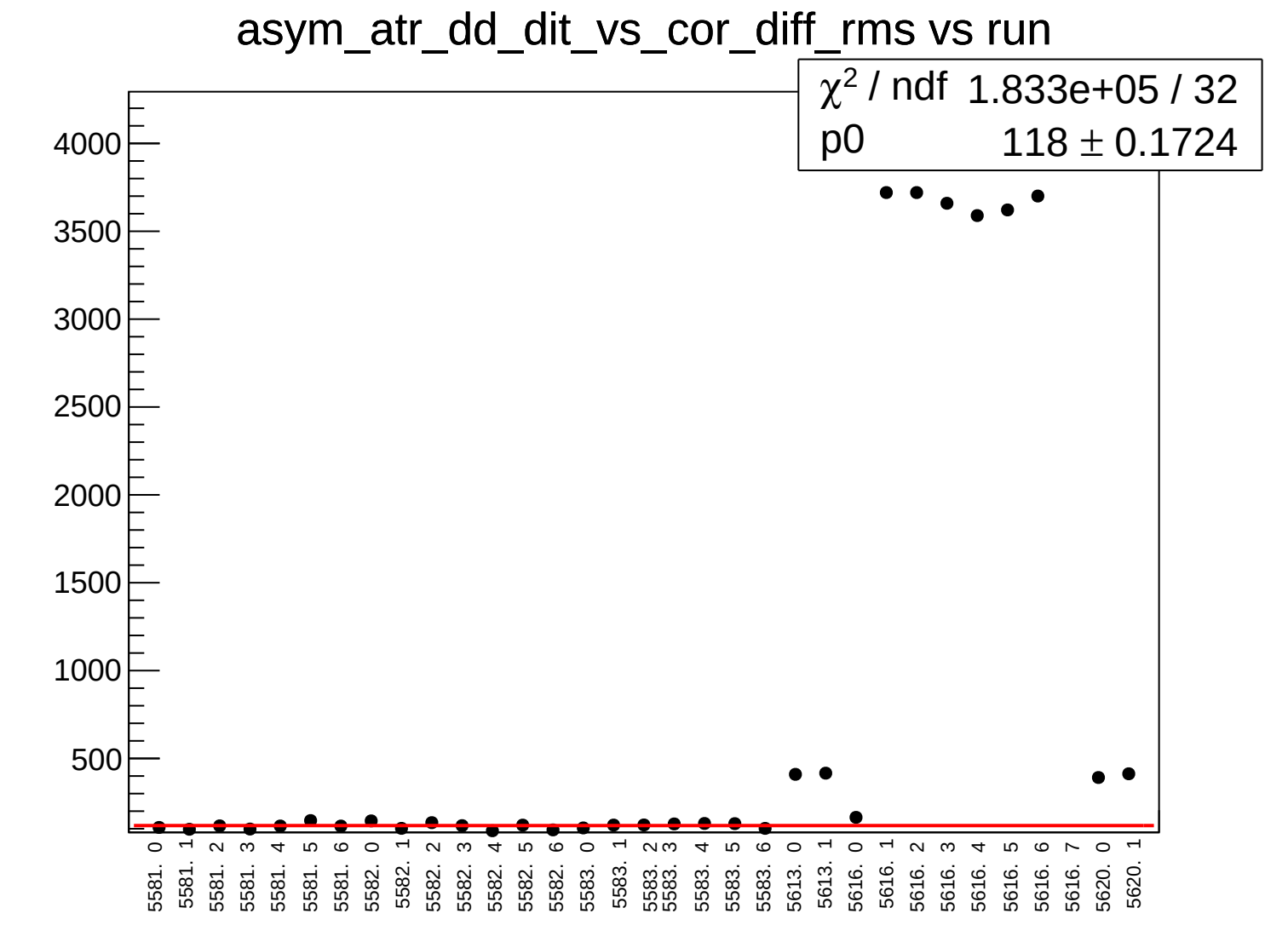

asym_atr_dd_rms vs run
×10^3
χ^2 / ndf 1.136e+05 / 32
p0 2911 ± 3.967
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

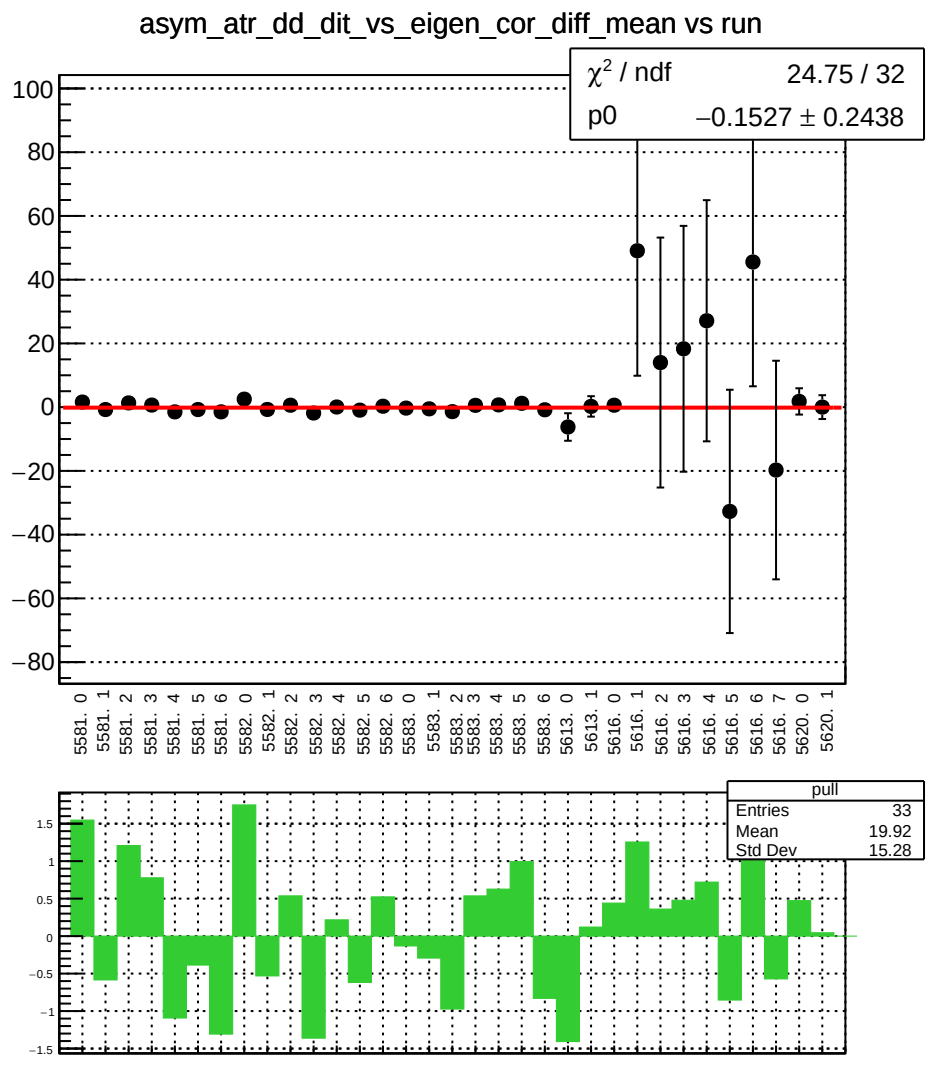

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 21.48 / 32
p0 −2.993e−13 ± 2.463e−13
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 65.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

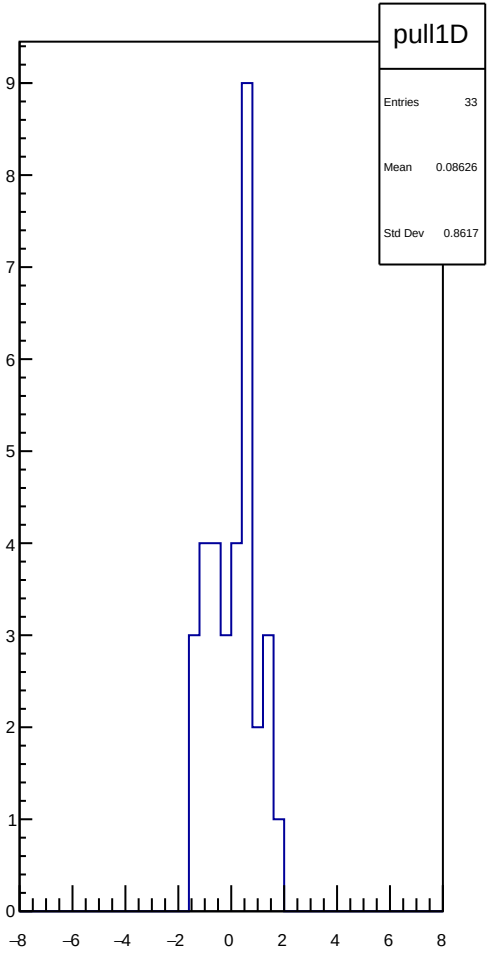

pull1D
Entries 33
Mean 0.01594
Std Dev 0.8065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

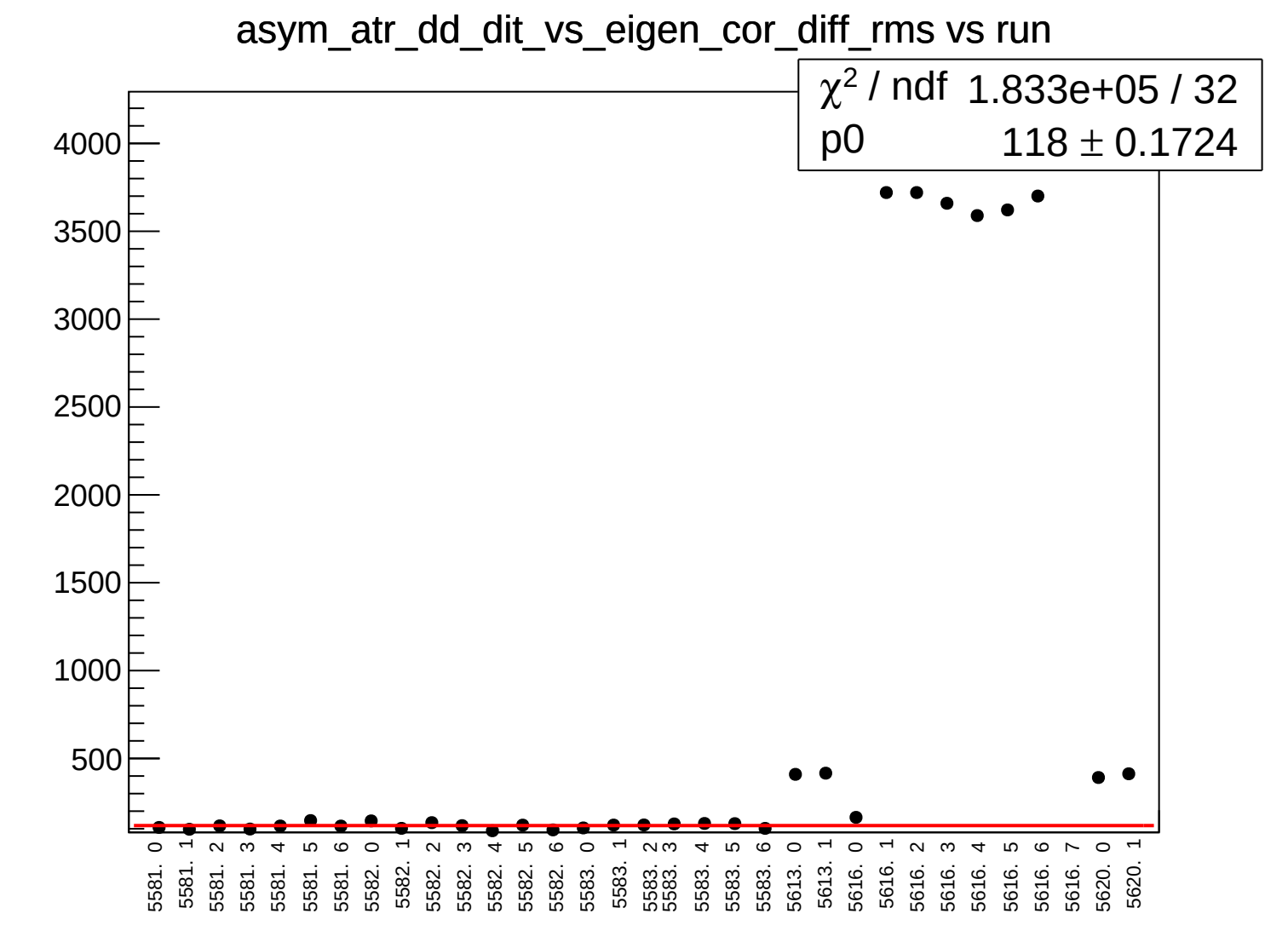

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.241e+05 / 32
p0 8.312e−11 ± 1.741e−13
6000
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

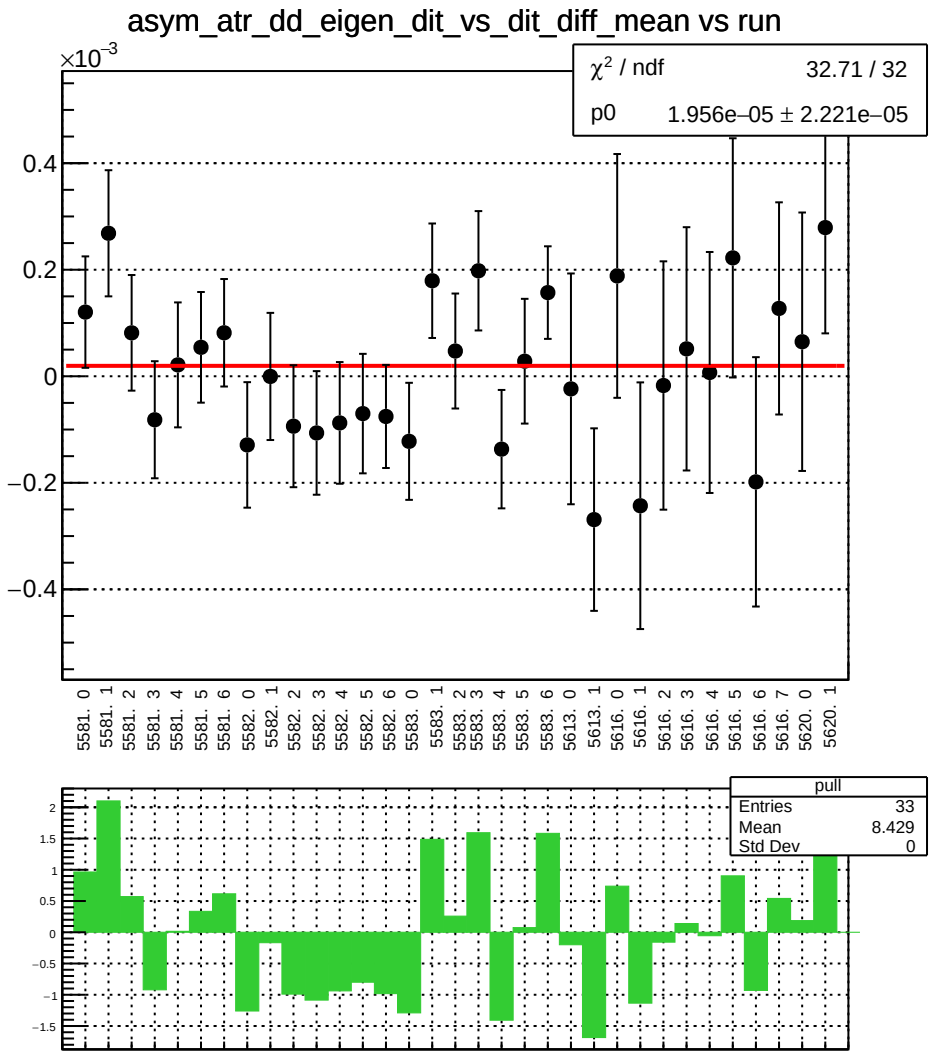

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 24.75 / 32
p0 −0.1527 ± 0.2438
pull
Entries 33
Mean 19.92
Std Dev 15.28
pull1D
Entries 33
Mean 0.08626
Std Dev 0.8617

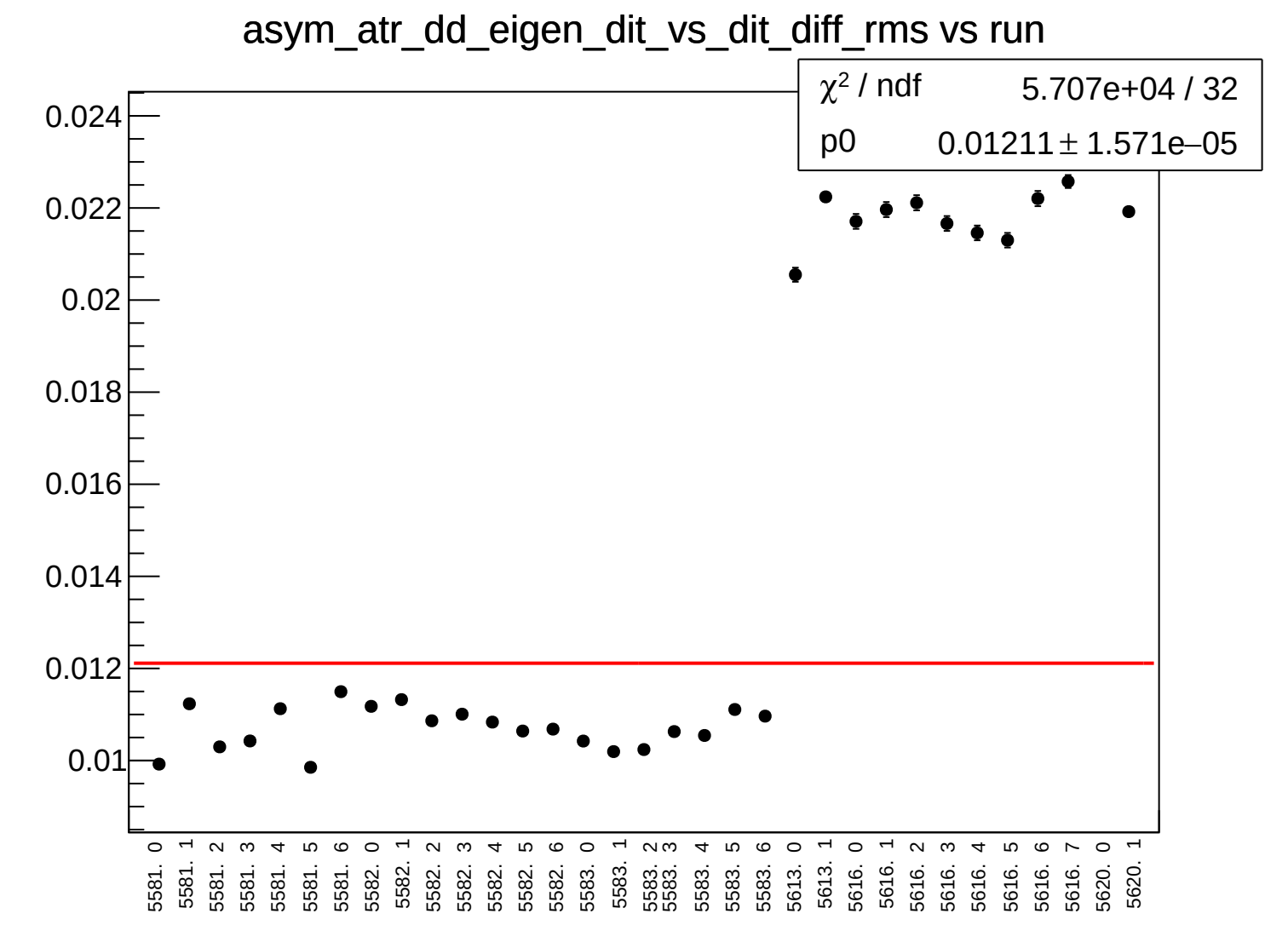

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.833e+05 / 32
p0 118 ± 0.1724
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

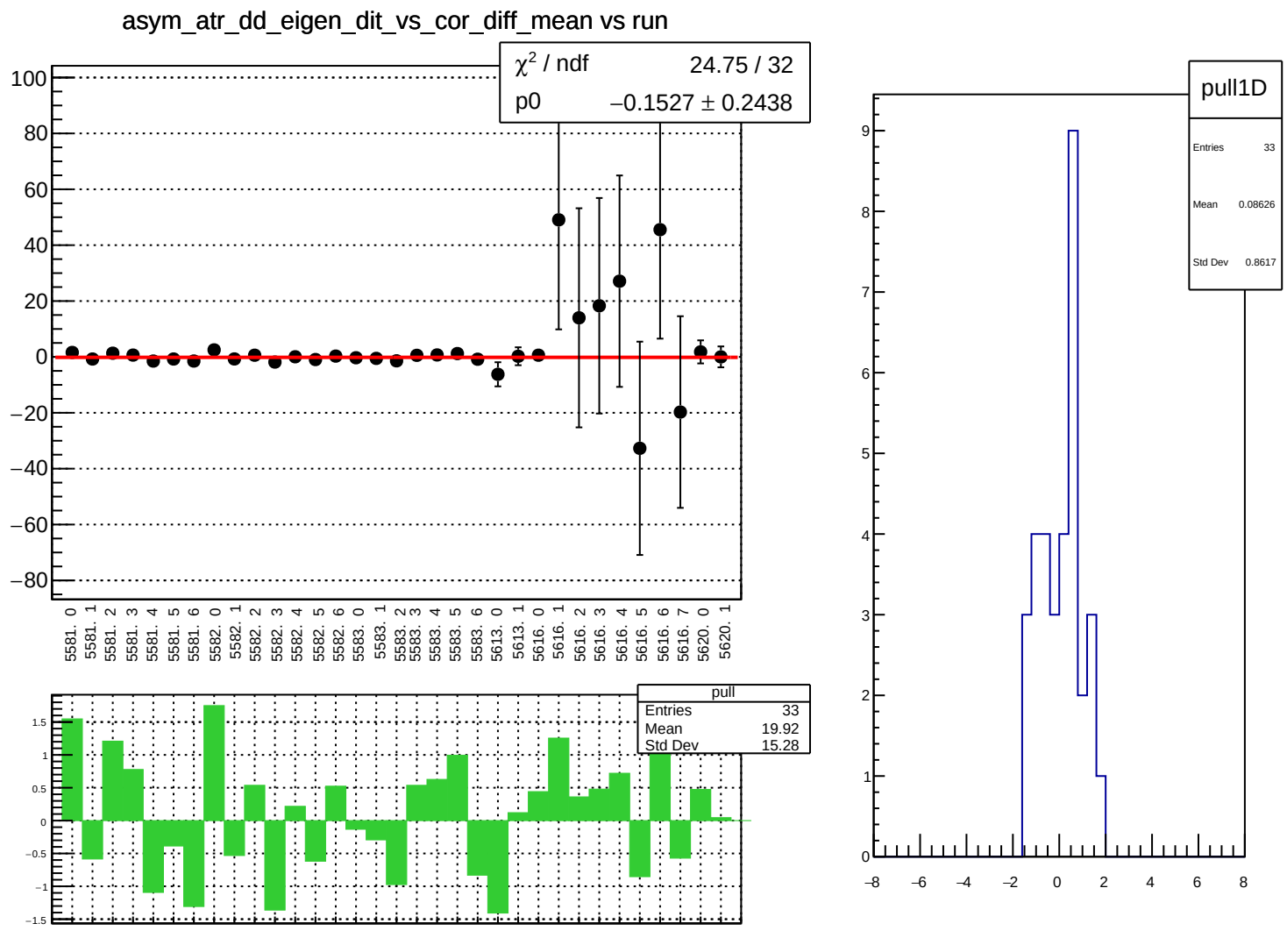

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.75 / 32
p0 −0.1527 ± 0.2438
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.92
Std Dev 15.28
1.5
1
0.5
0
−0.5
−1
−1.5

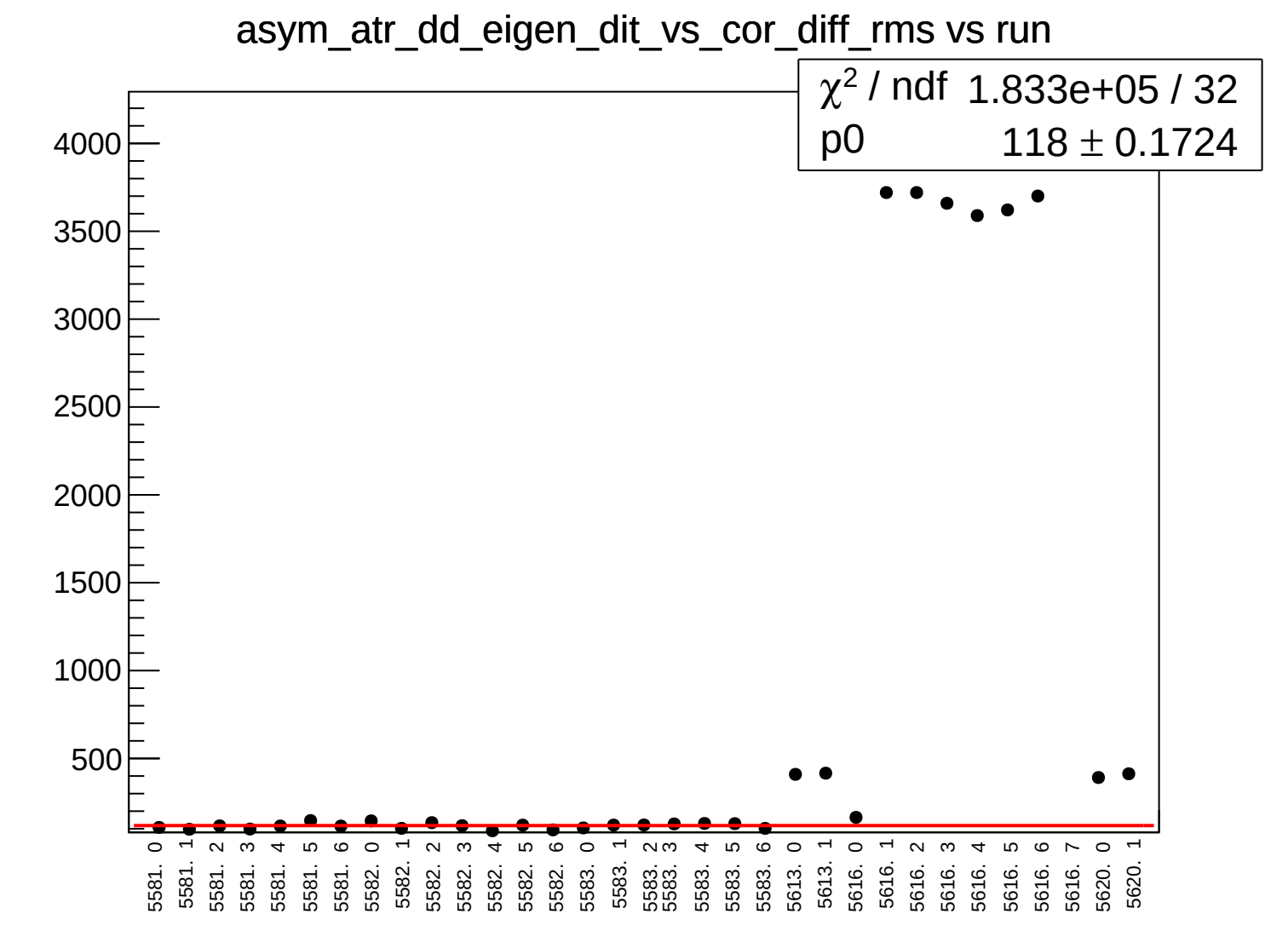

pull1D
Entries 33
Mean 0.08626
Std Dev 0.8617
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

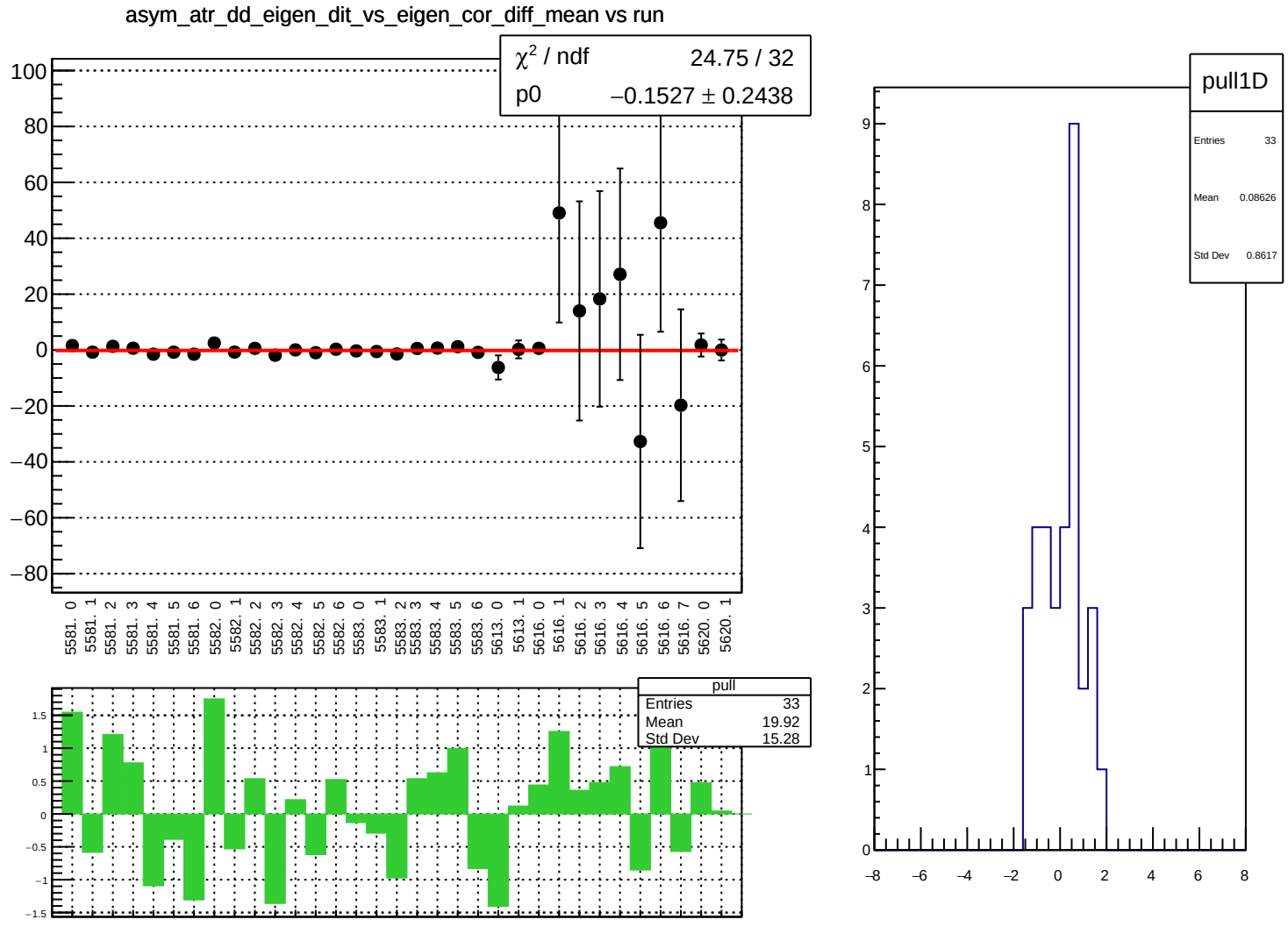

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.833e+05 / 32
p0 118 ± 0.1724
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

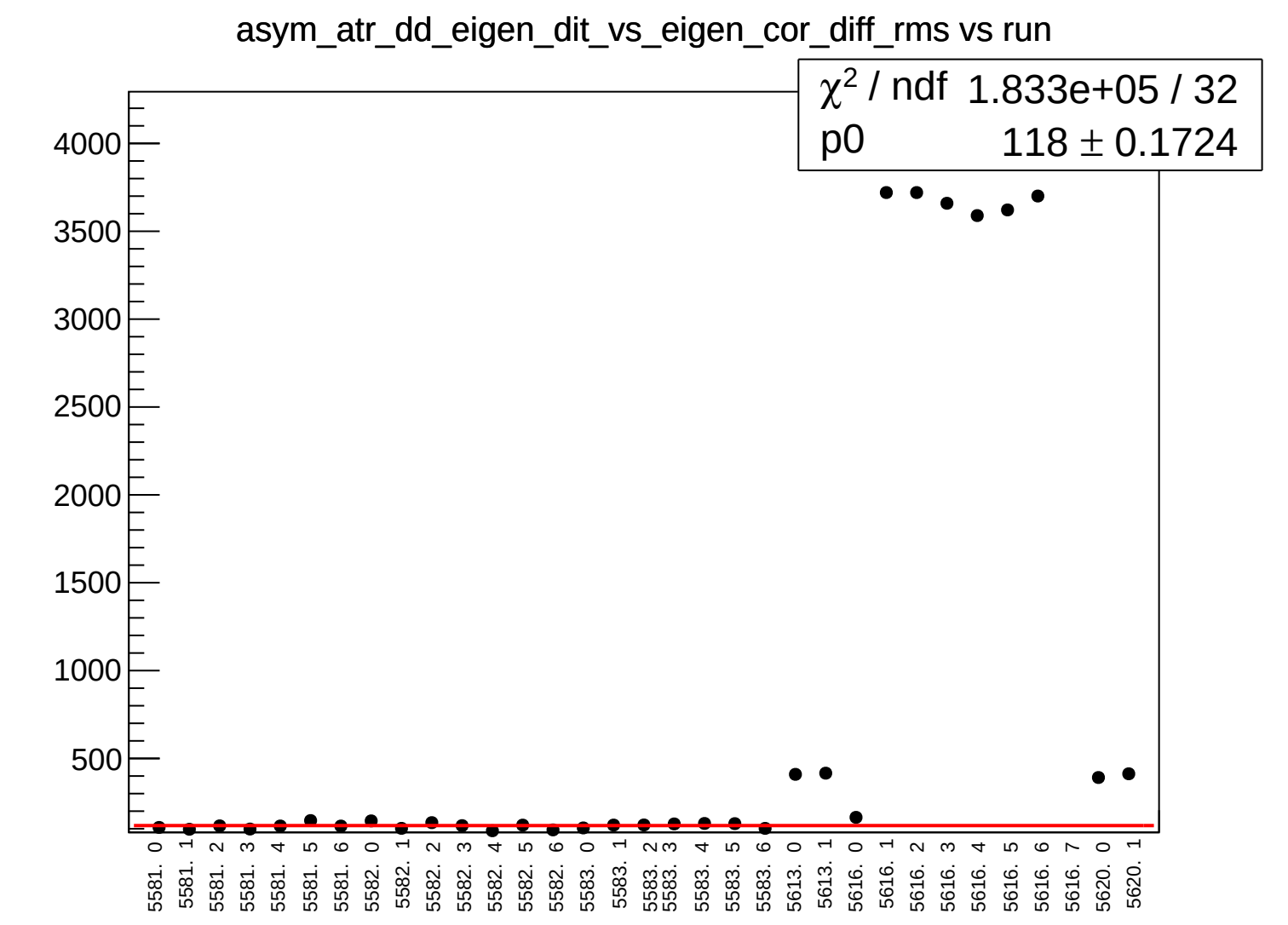

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.71 / 32
p0 1.956e−05 ± 2.221e−05
0.4
0.2
0
−0.2
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 8.429
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.01783
Std Dev 0.9954
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

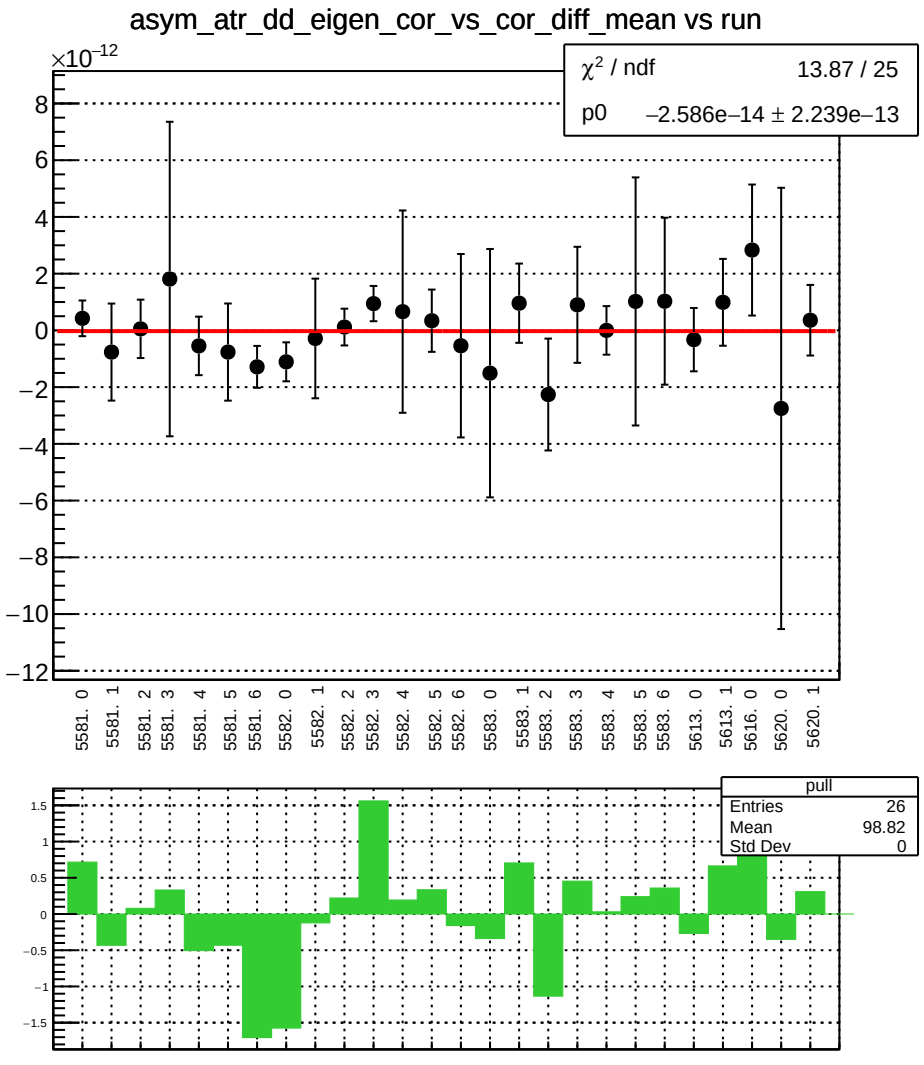

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.707e+04 / 32
p0 0.01211 ± 1.571e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

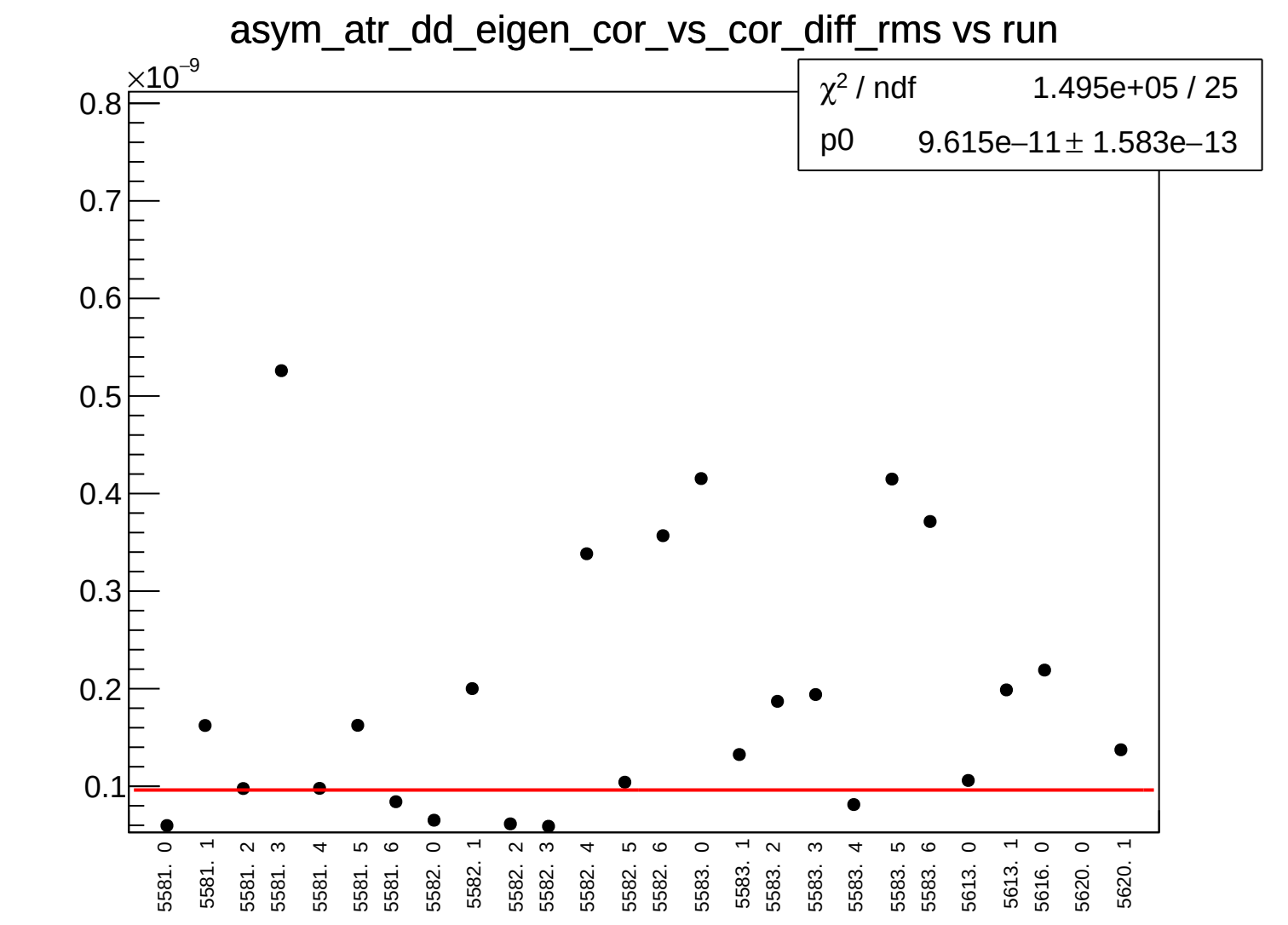

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.75 / 32
p0 −0.1527 ± 0.2438
pull
Entries 33
Mean 19.92
Std Dev 15.28
pull1D
Entries 33
Mean 0.08626
Std Dev 0.8617

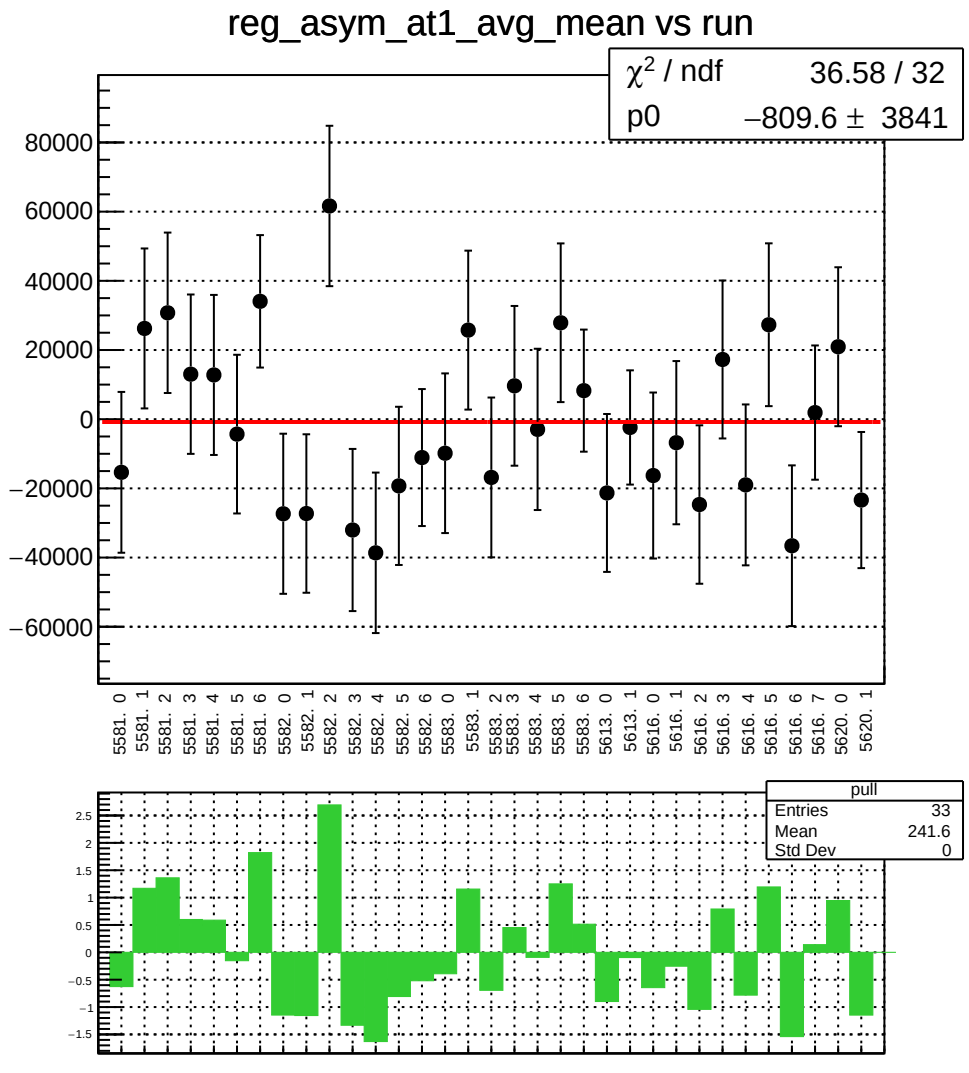

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.833e+05 / 32
p0 118 ± 0.1724
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

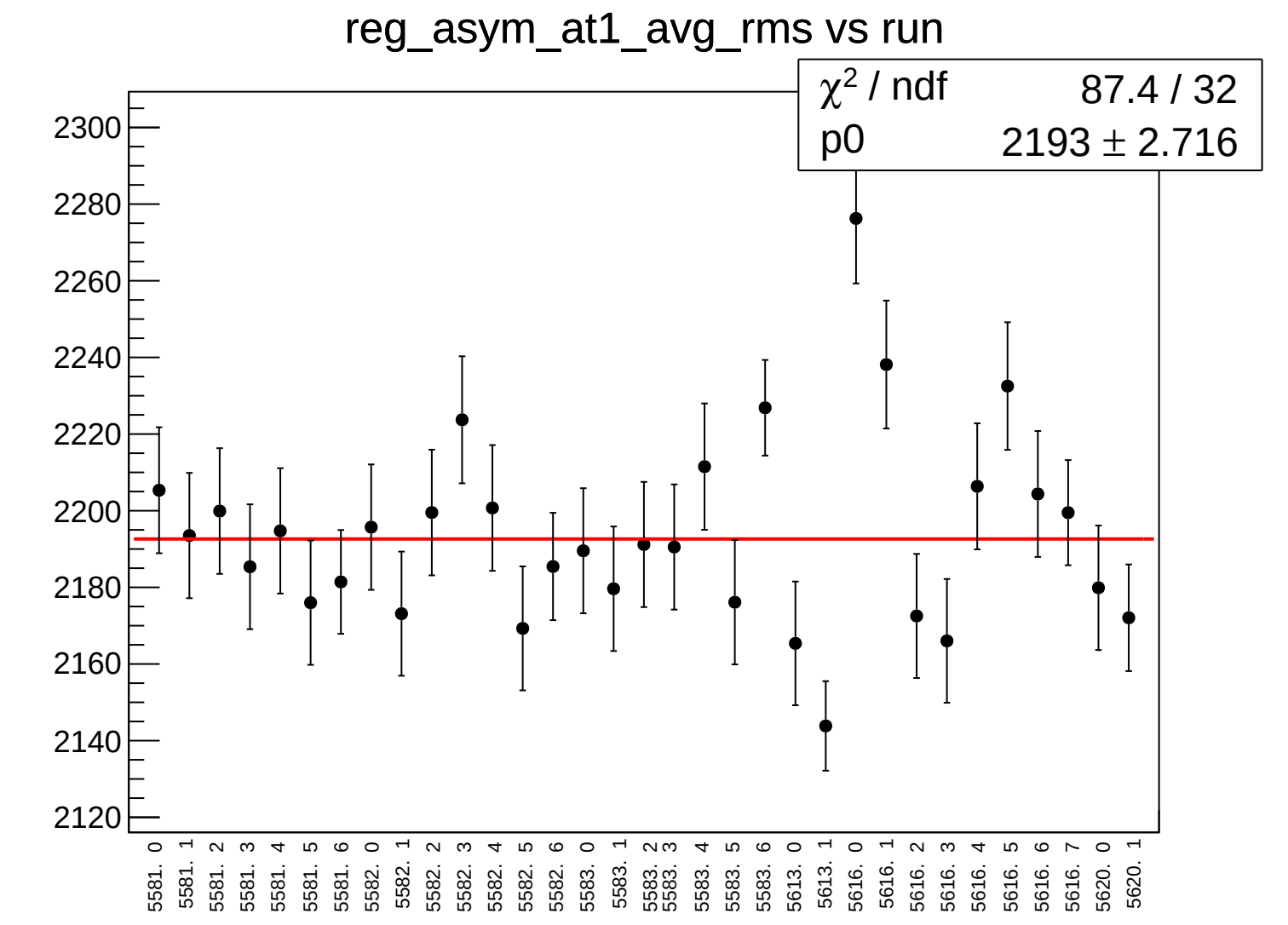

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.75 / 32
p0 −0.1527 ± 0.2438
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.92
Std Dev 15.28
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.08626
Std Dev 0.8617
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

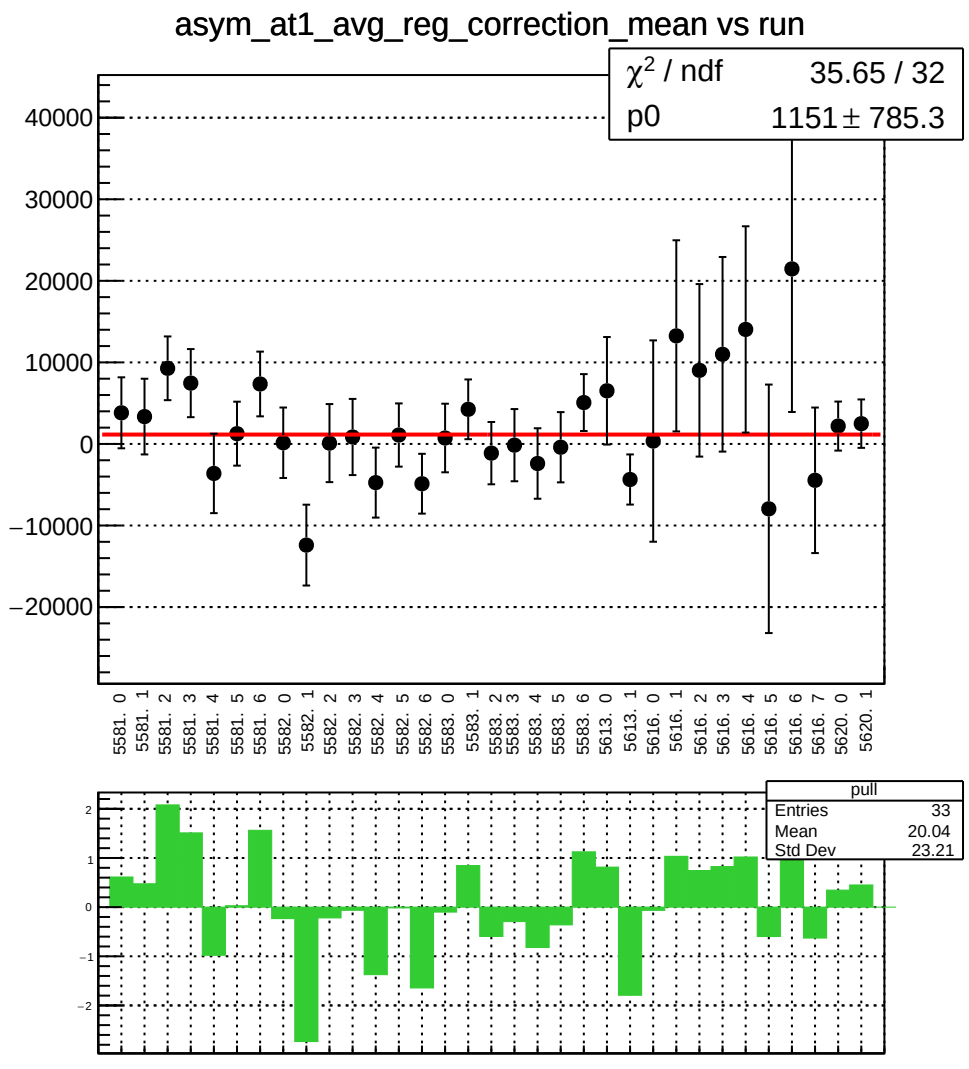

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.833e+05 / 32
p0 118 ± 0.1724
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

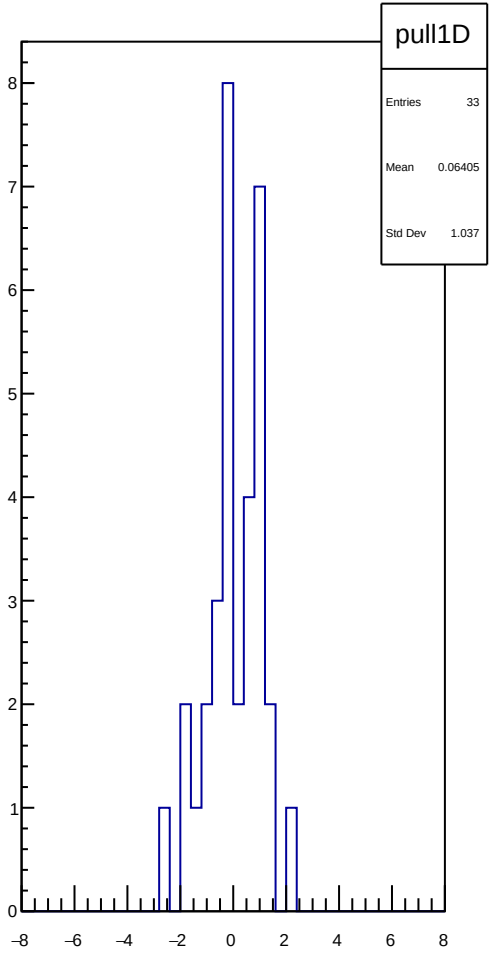

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 13.87 / 25
p0 −2.586e−14 ± 2.239e−13
8
6
4
2
0
−2
−4
−6
−8
−10
−12
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 98.82
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.0158
Std Dev 0.7303
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

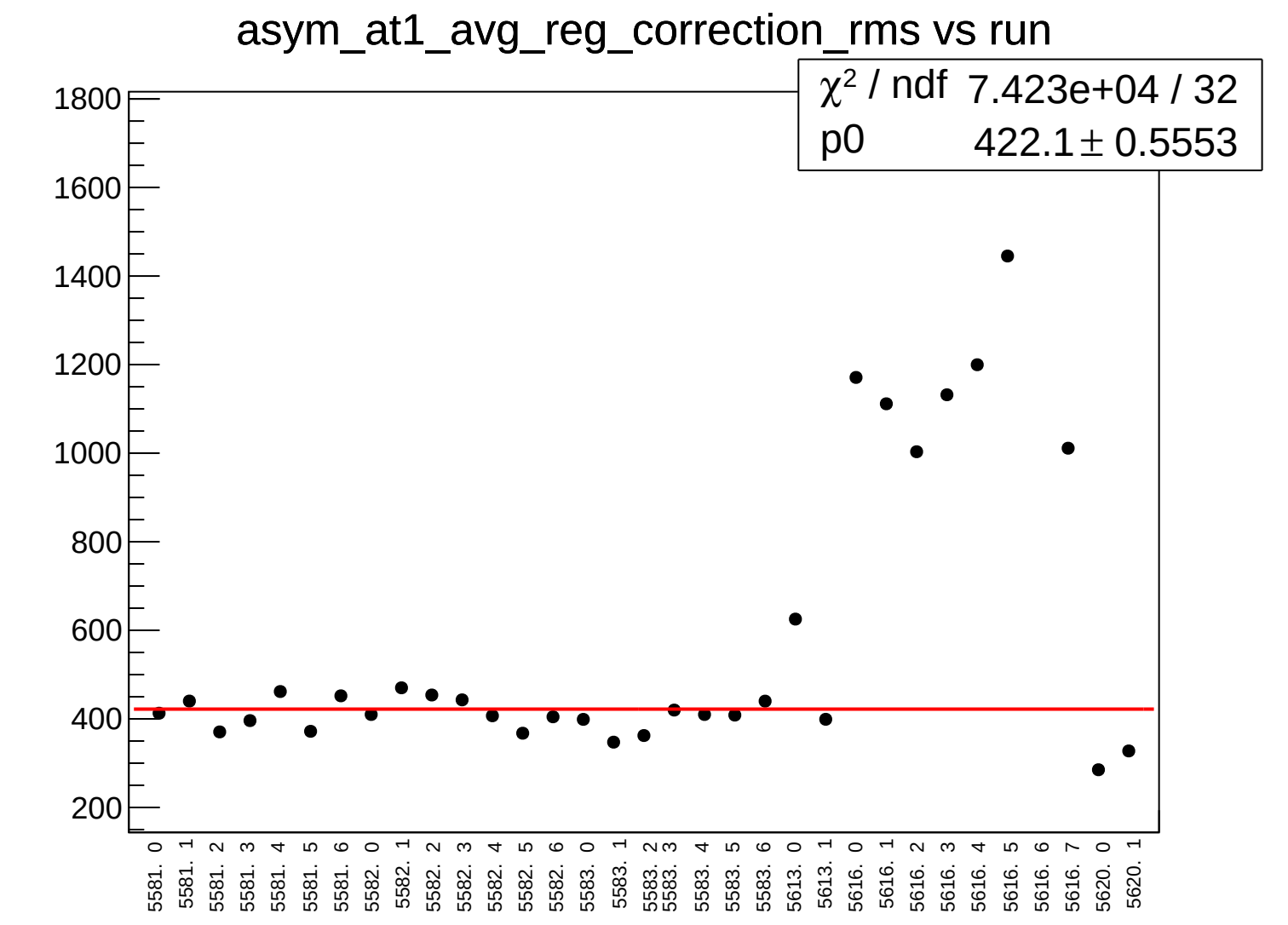

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.495e+05 / 25
p0 9.615e−11 ± 1.583e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

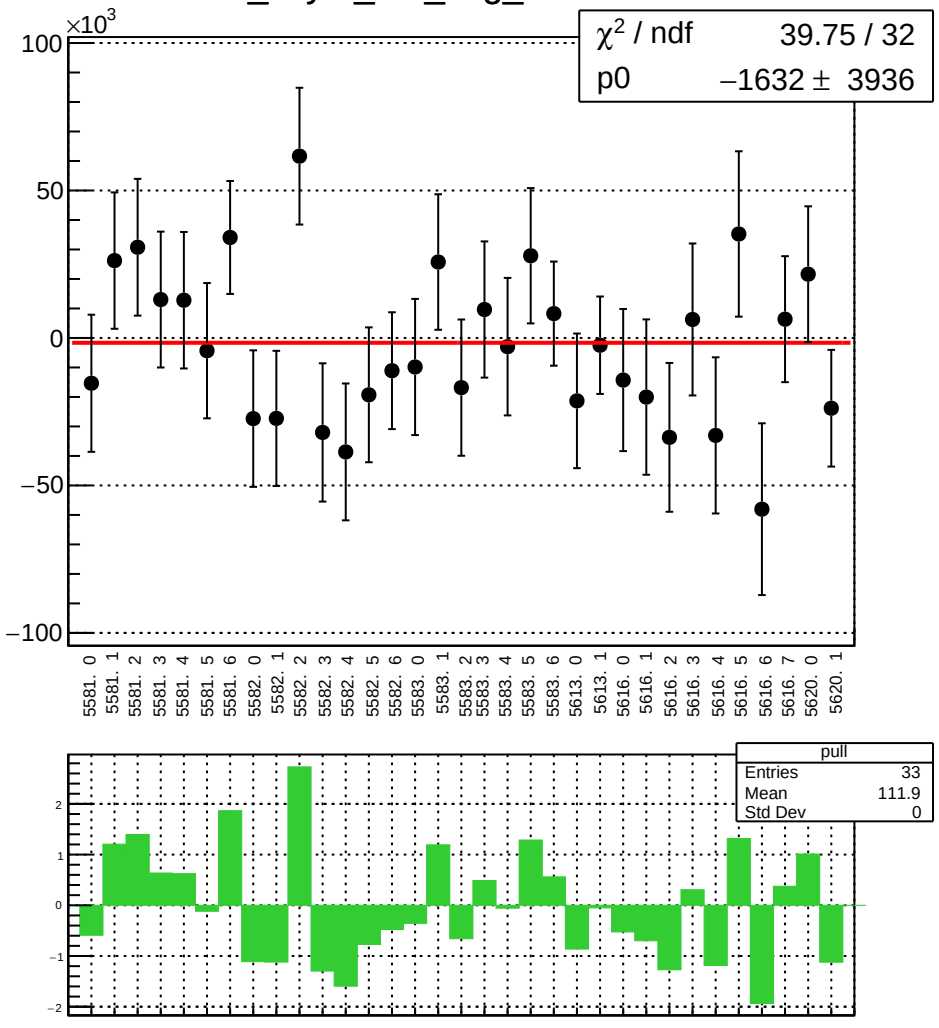

reg_asym_at1_avg_mean vs run
χ² / ndf 36.58 / 32
p0 −809.6 ± 3841
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 241.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.008103
Std Dev 1.053
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

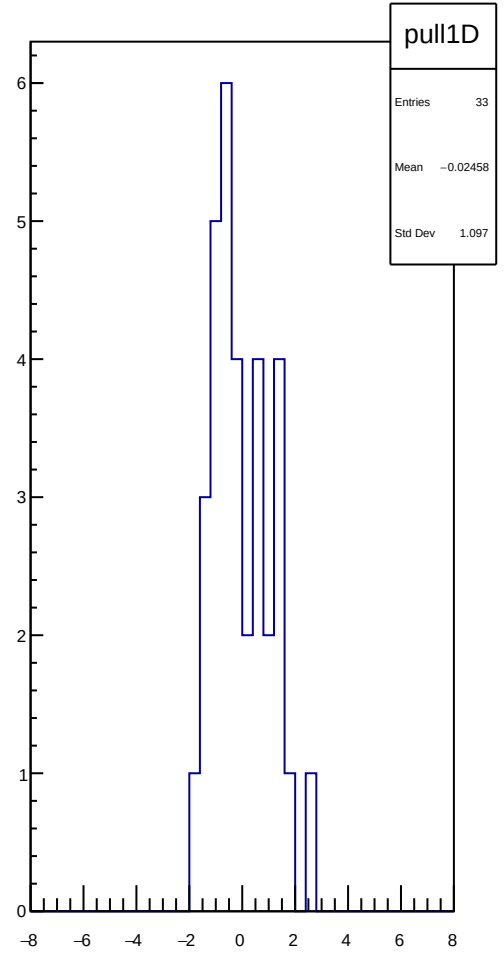

reg_asym_at1_avg_rms vs run
χ² / ndf 87.4 / 32
p0 2193 ± 2.716
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

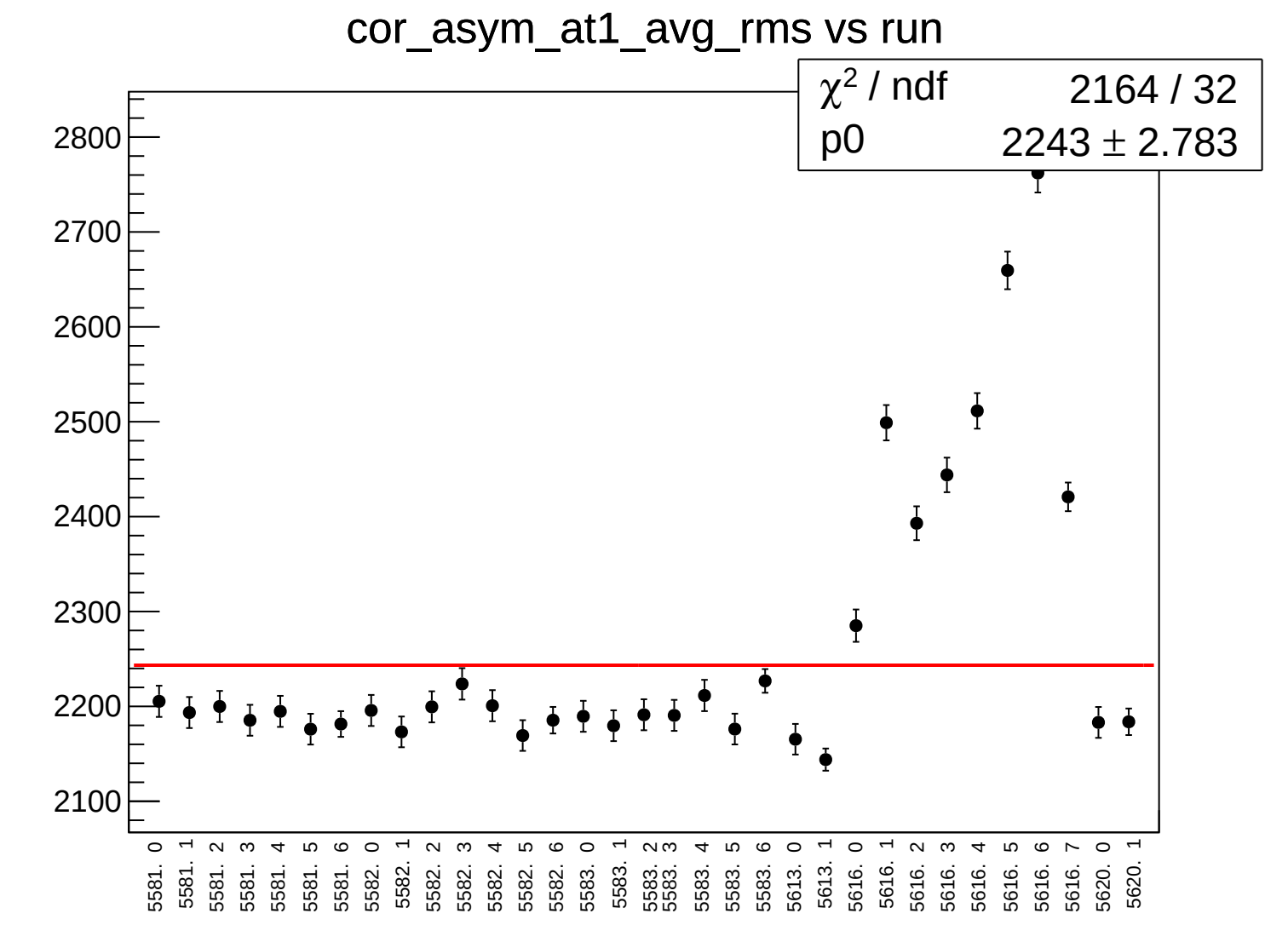

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 35.65 / 32
p0 1151 ± 785.3
40000
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.04
Std Dev 23.21
2
1
0
−1
−2

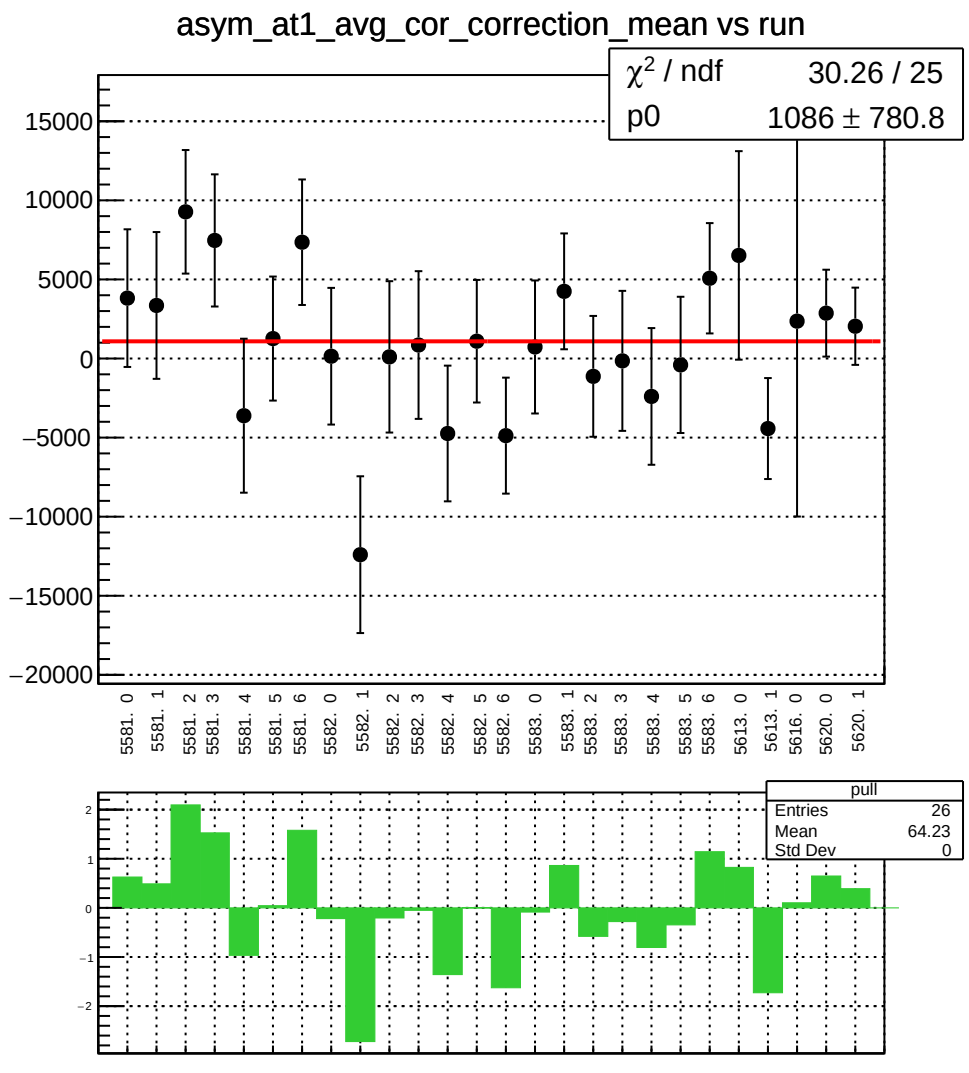

pull1D
Entries 33
Mean 0.06405
Std Dev 1.037
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

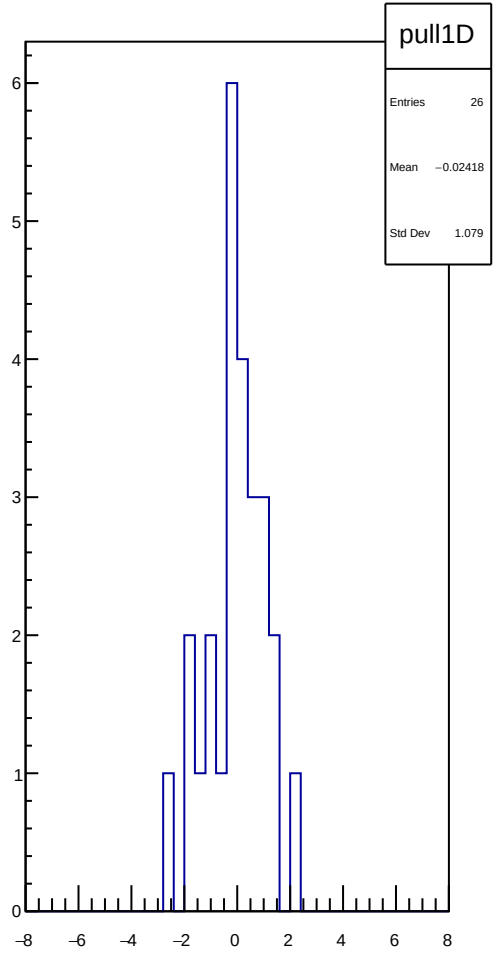

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 7.423e+04 / 32
p0 422.1 ± 0.5553
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

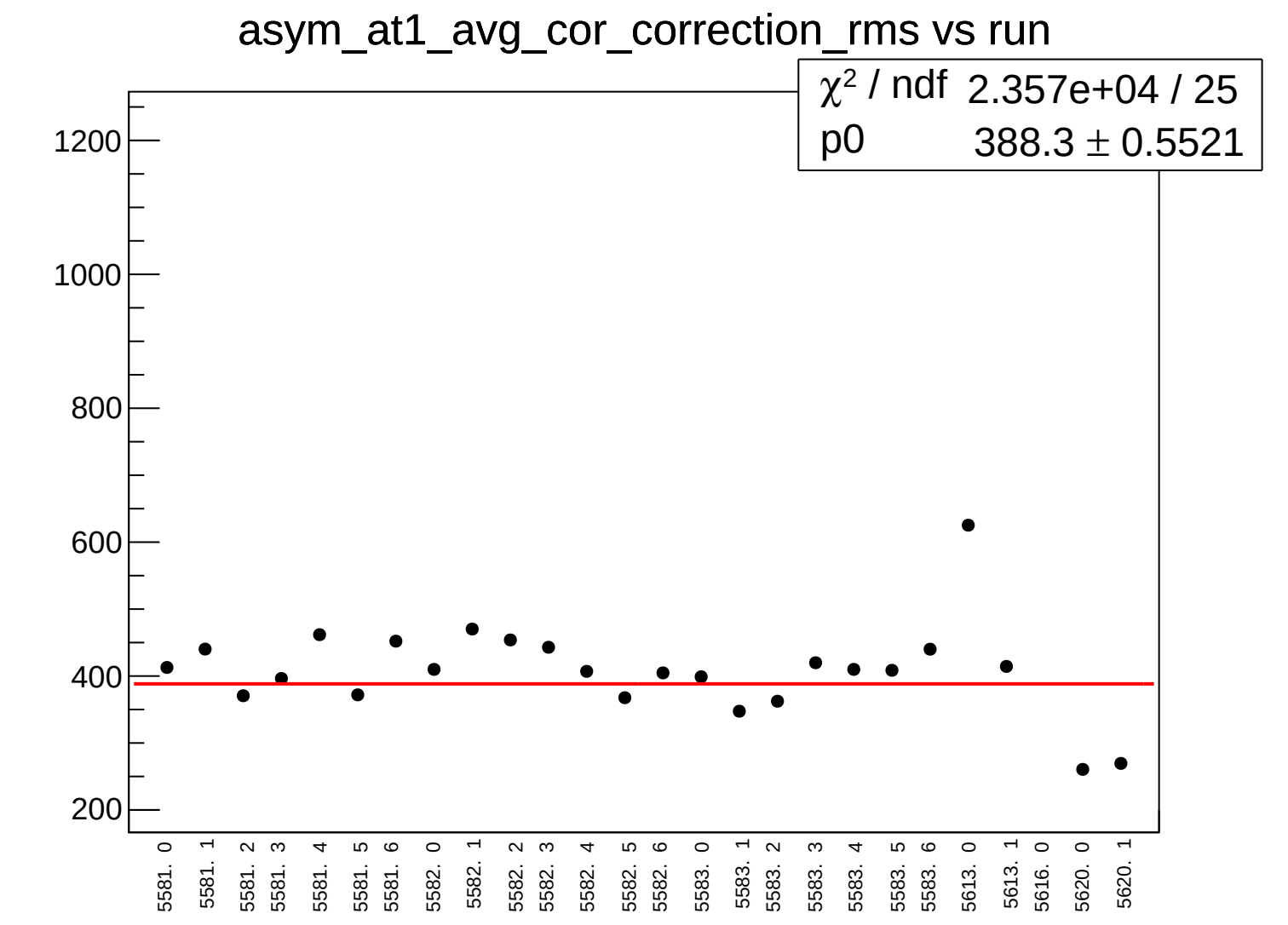

cor_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 39.75 / 32
p0 −1632 ± 3936
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 111.9
Std Dev 0
2
1
0
−1
−2

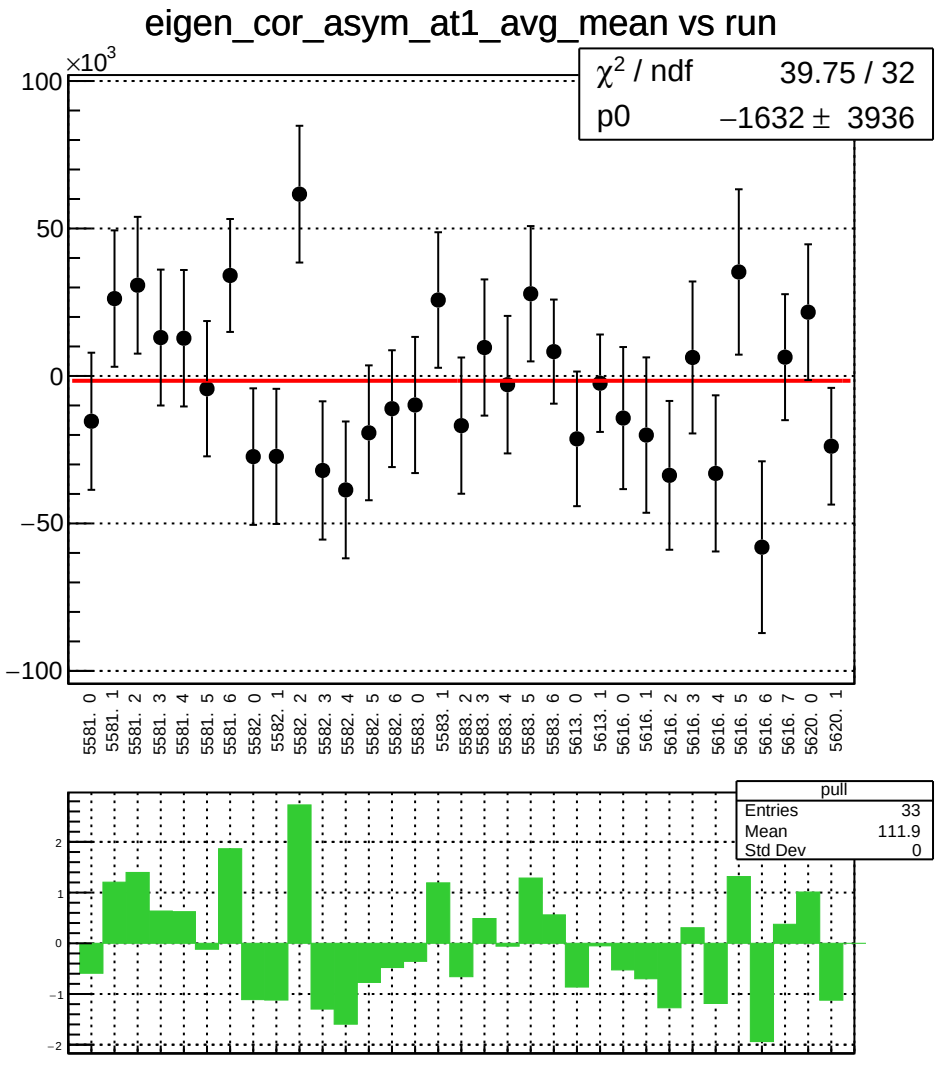

pull1D
Entries 33
Mean −0.02458
Std Dev 1.097
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

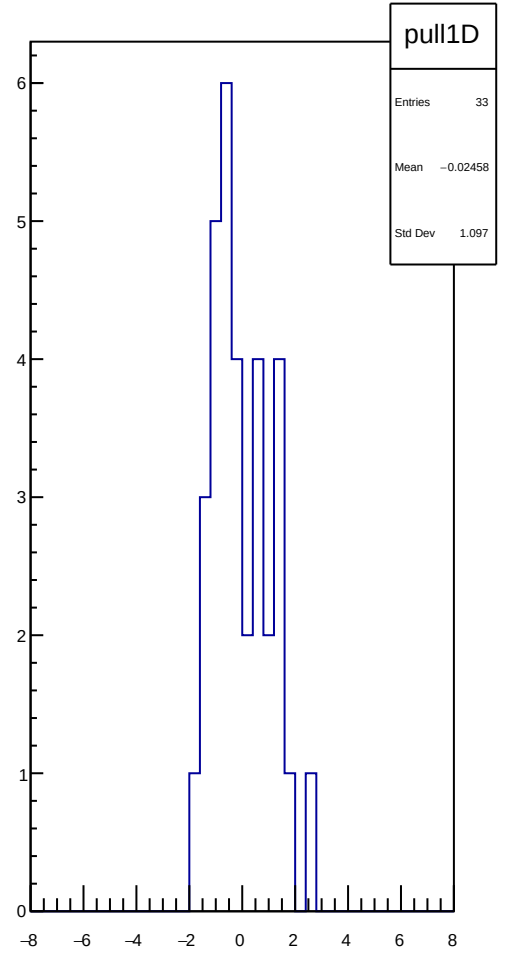

cor_asym_at1_avg_rms vs run
χ² / ndf 2164 / 32
p0 2243 ± 2.783
2800
2700
2600
2500
2400
2300
2200
2100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

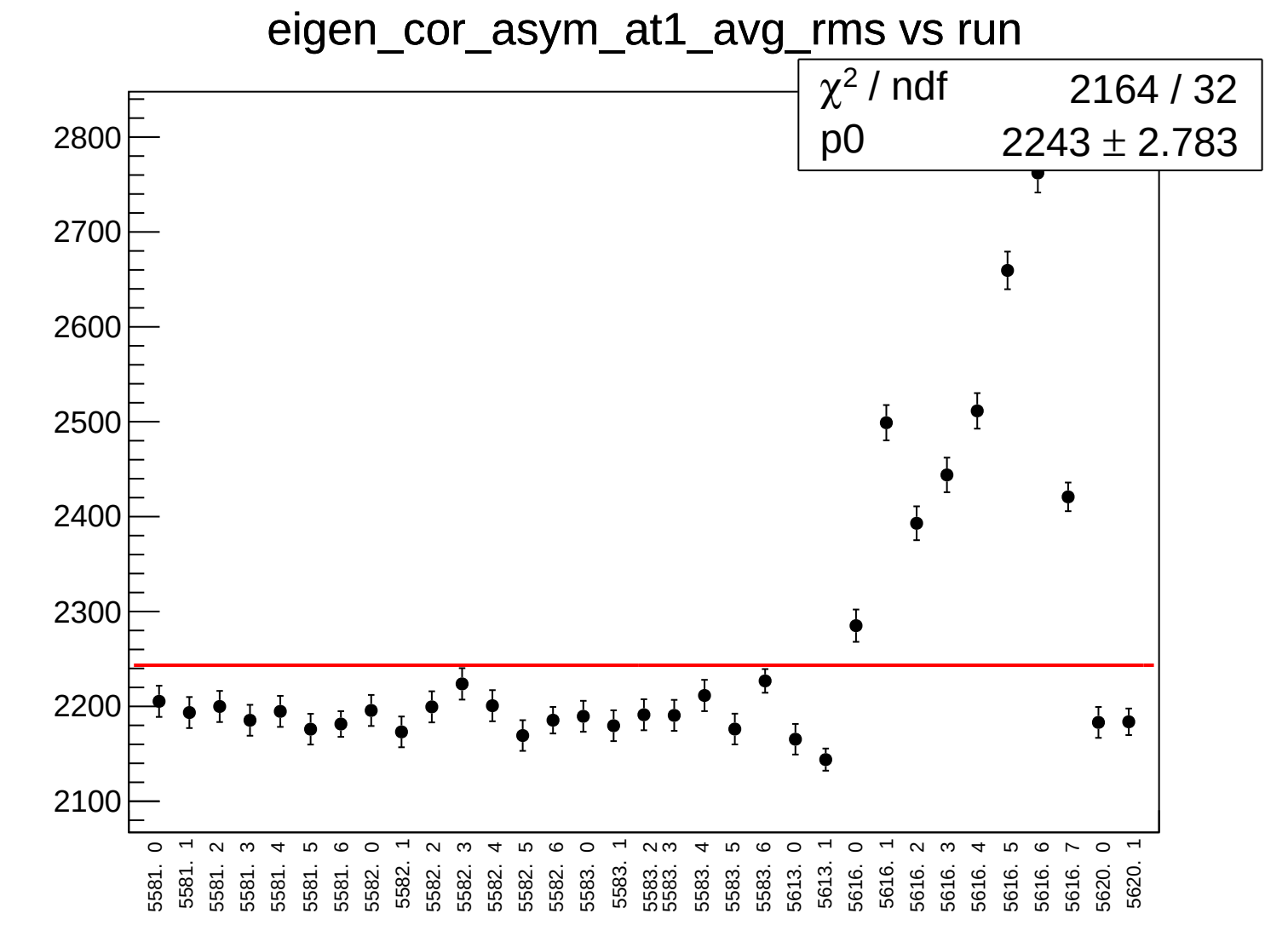

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 30.26 / 25
p0 1086 ± 780.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 64.23
Std Dev 0
2
1
0
−1
−2

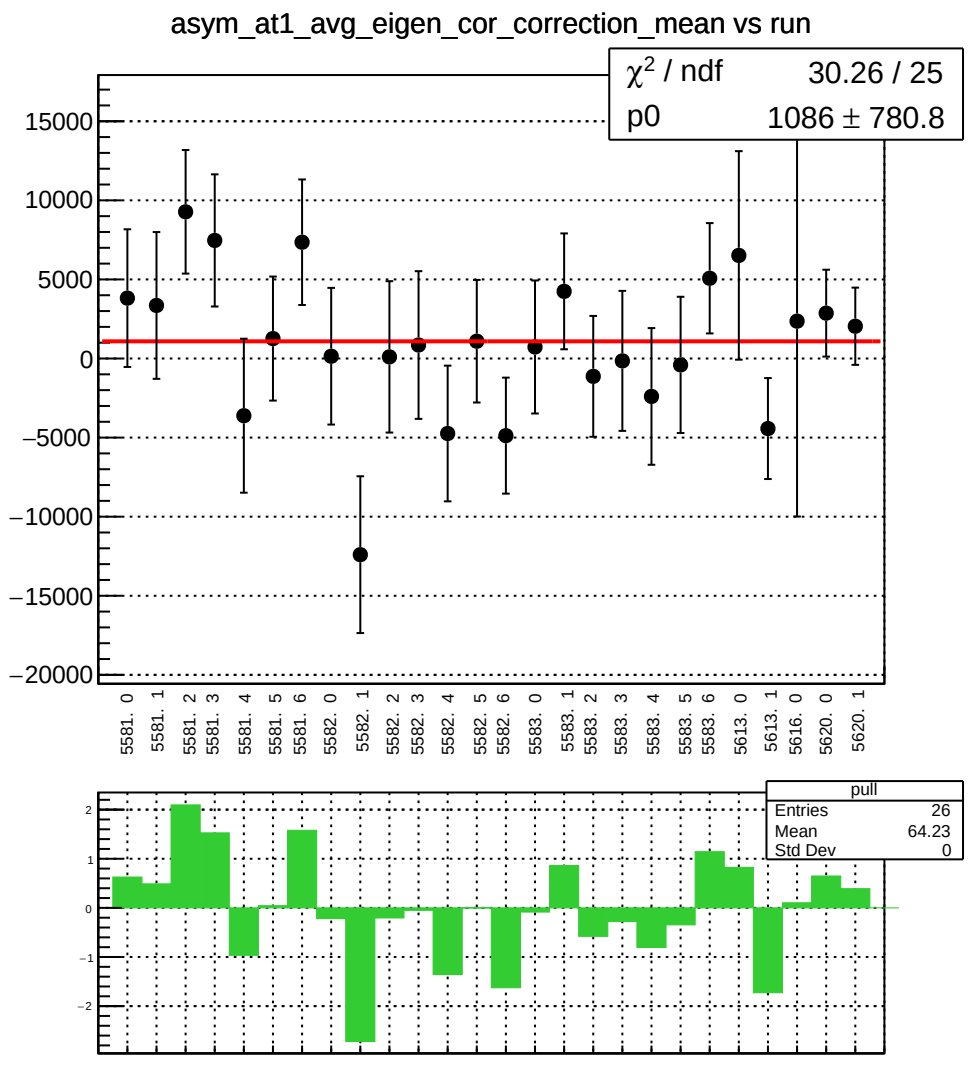

pull1D
Entries 26
Mean −0.02418
Std Dev 1.079
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

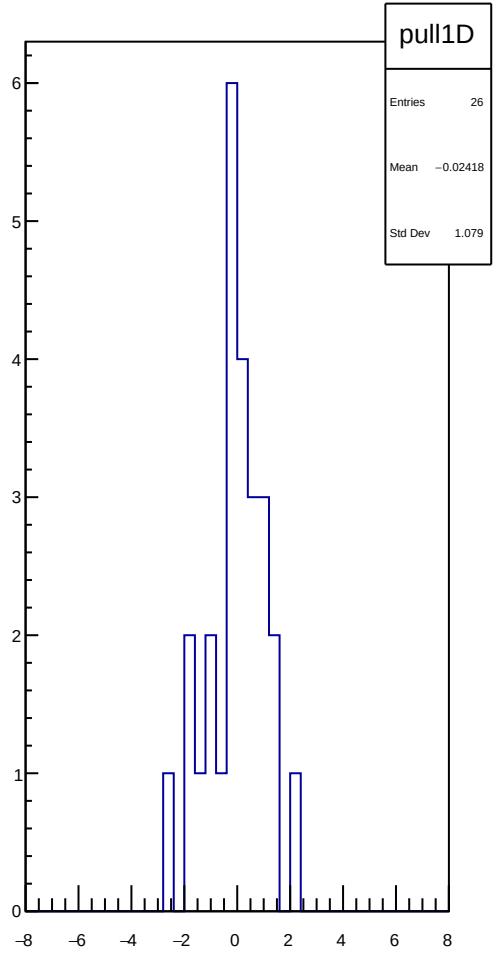

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 2.357e+04 / 25
p0 388.3 ± 0.5521
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

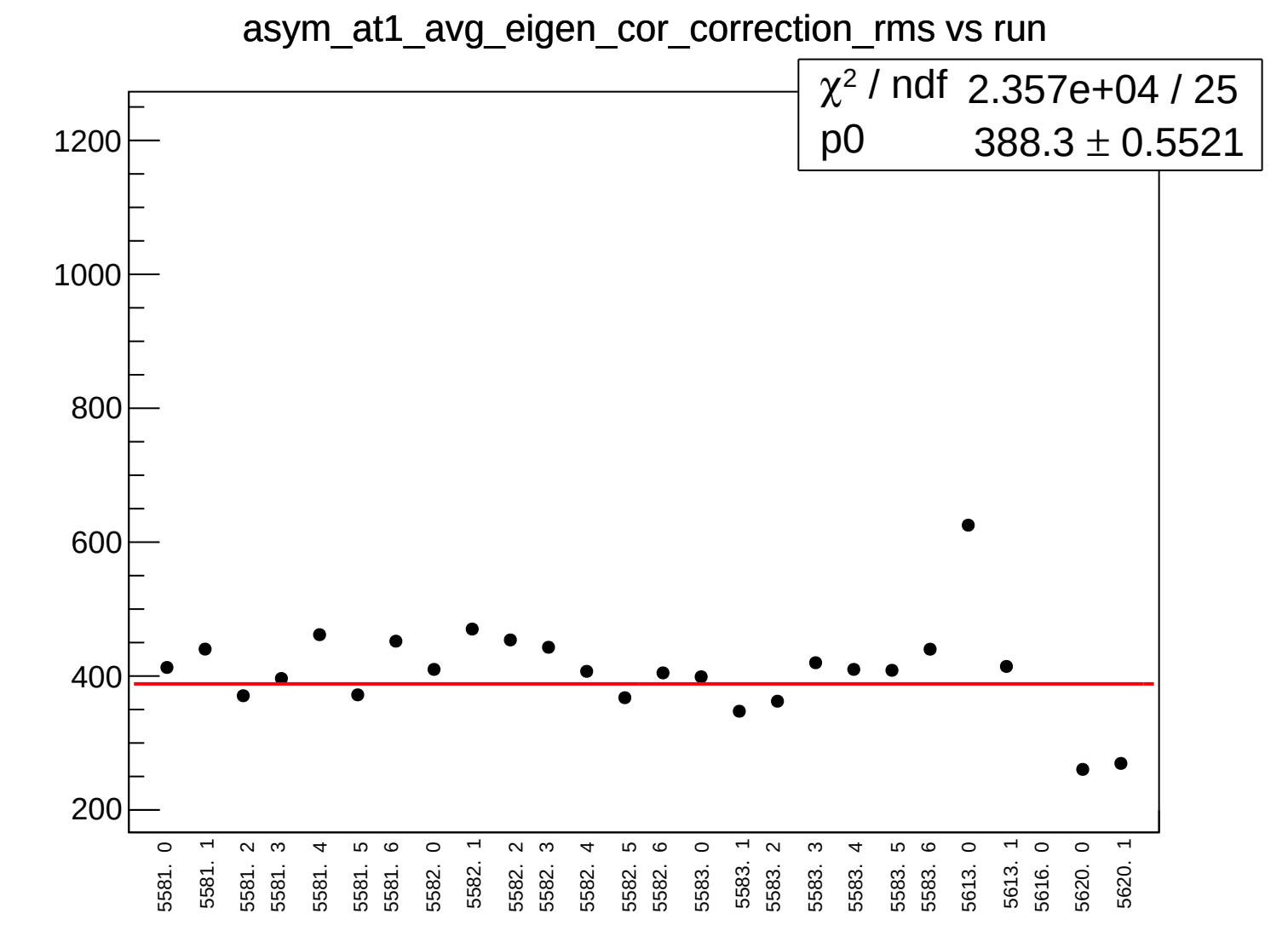

eigen_cor_asym_at1_avg_mean vs run
×10^3
χ² / ndf 39.75 / 32
p0 −1632 ± 3936
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 111.9
Std Dev 0
2
1
0
−1
−2

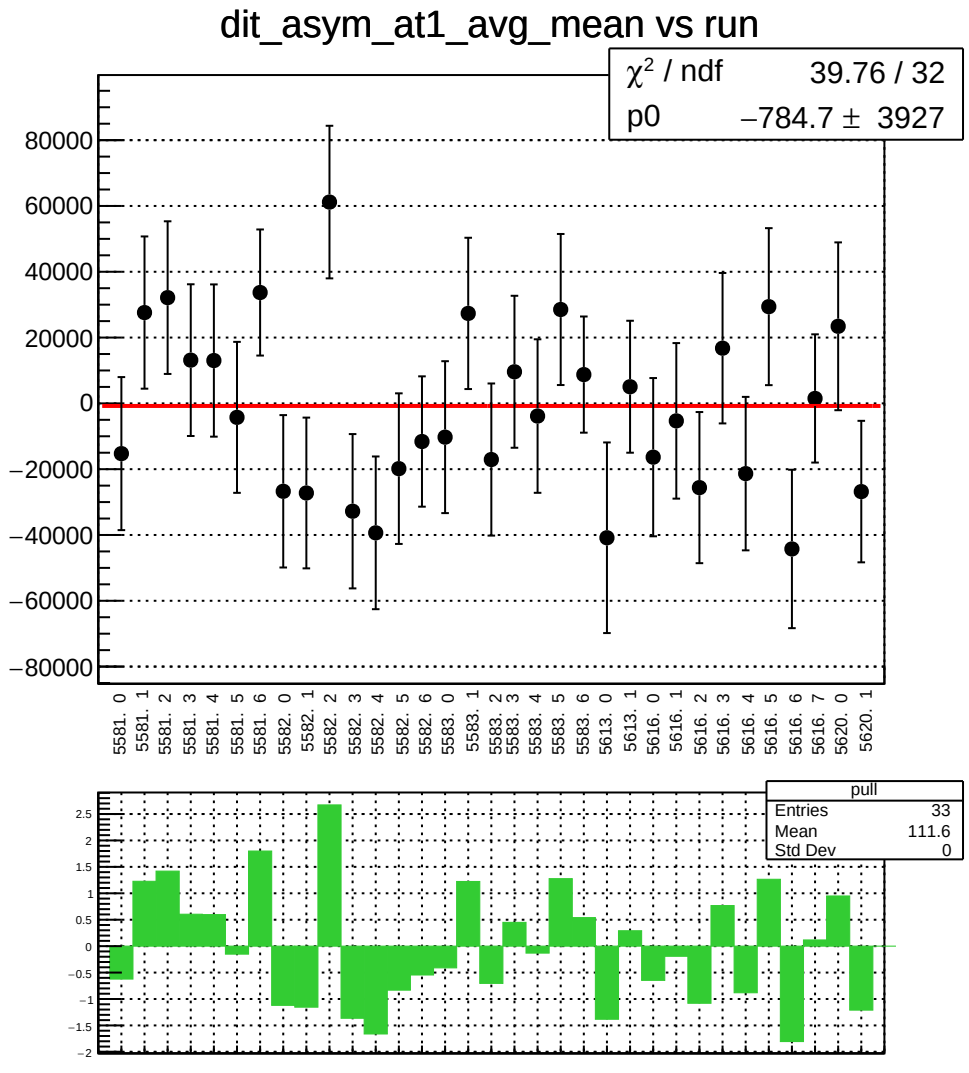

pull1D
Entries 33
Mean −0.02458
Std Dev 1.097
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

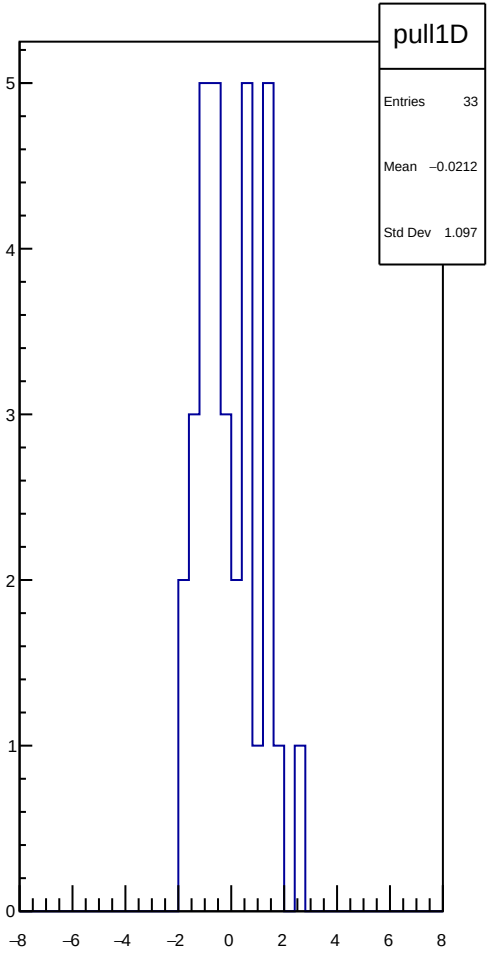

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 2164 / 32
p0 2243 ± 2.783
2800
2700
2600
2500
2400
2300
2200
2100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

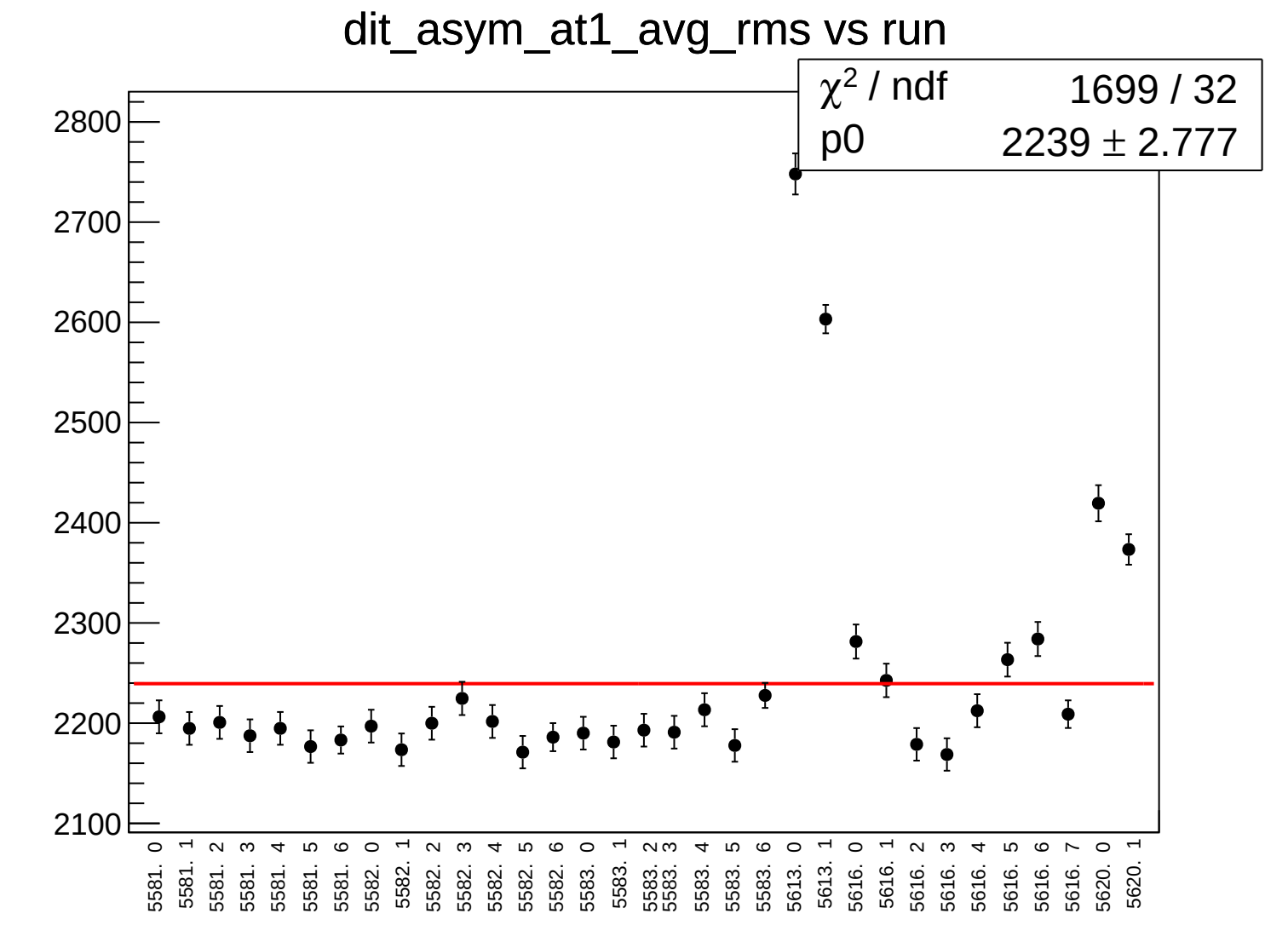

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 30.26 / 25
p0 1086 ± 780.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 64.23
Std Dev 0
2
1
0
−1
−2

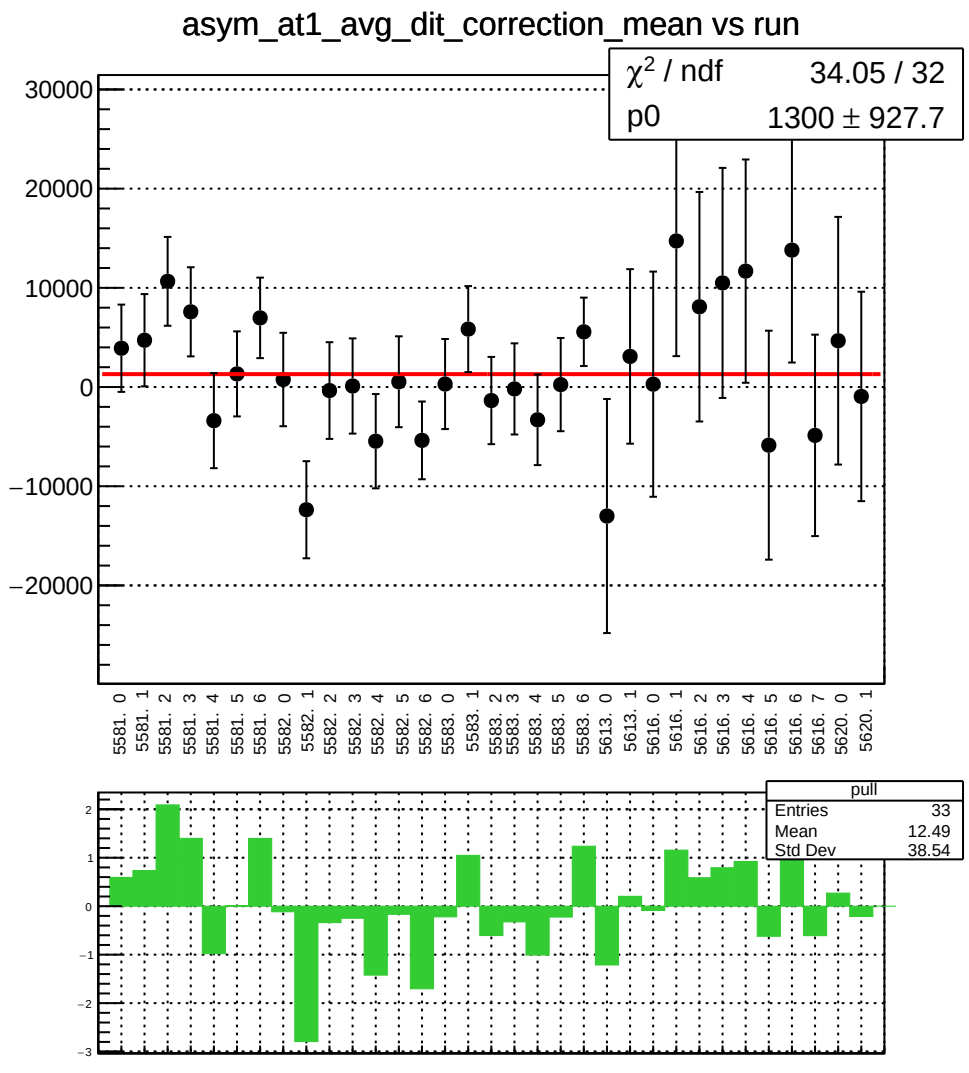

pull1D
Entries 26
Mean −0.02418
Std Dev 1.079
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

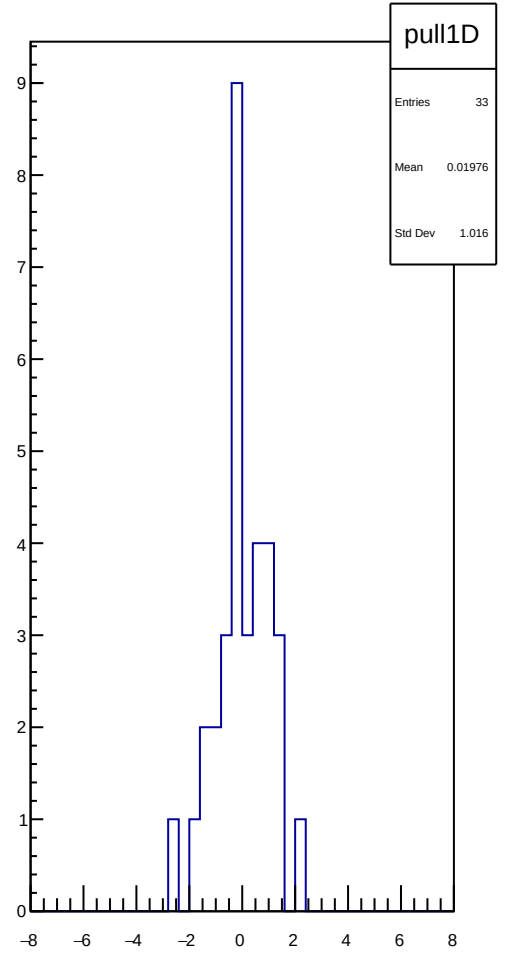

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.357e+04 / 25
p0 388.3 ± 0.5521
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

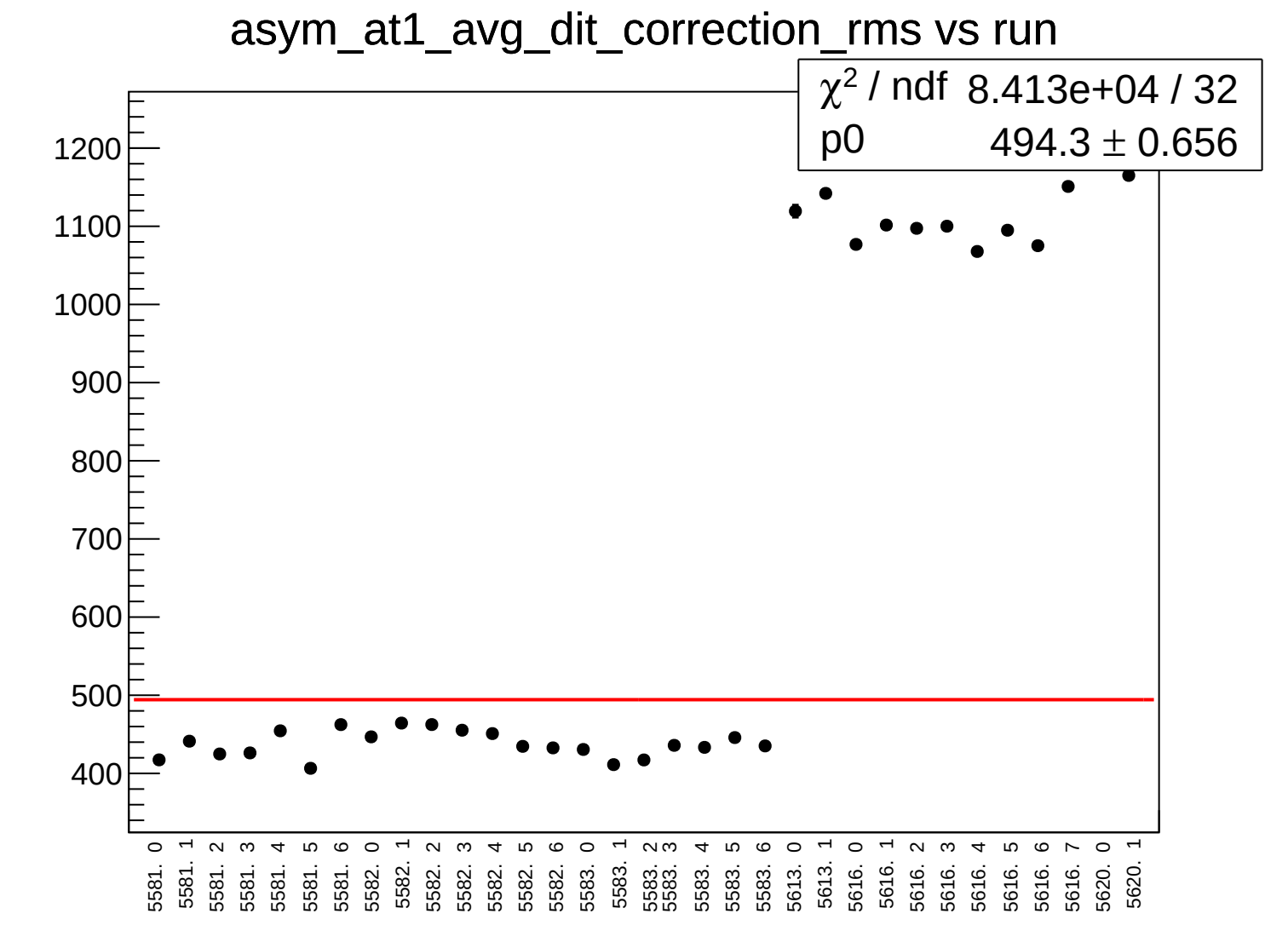

dit_asym_at1_avg_mean vs run
χ² / ndf 39.76 / 32
p0 −784.7 ± 3927
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 111.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

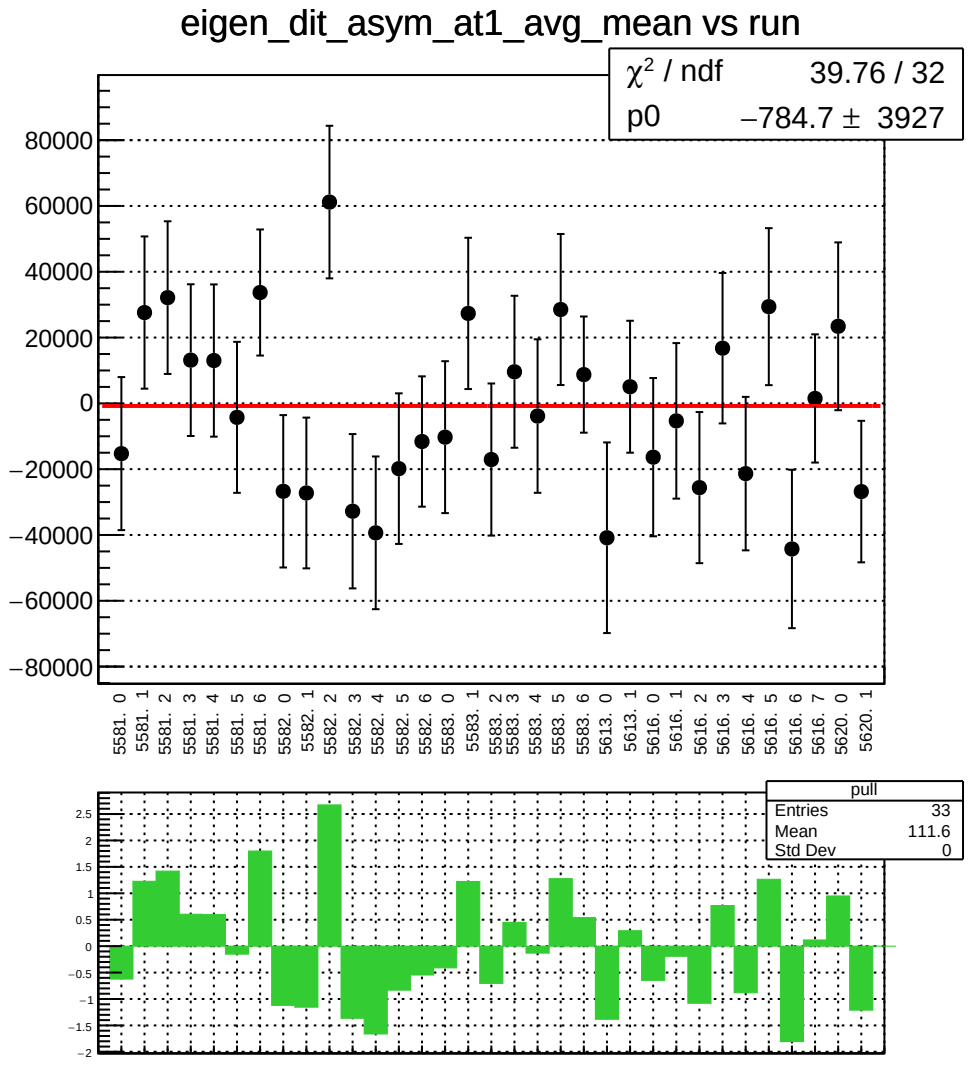

pull1D
Entries 33
Mean −0.0212
Std Dev 1.097
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

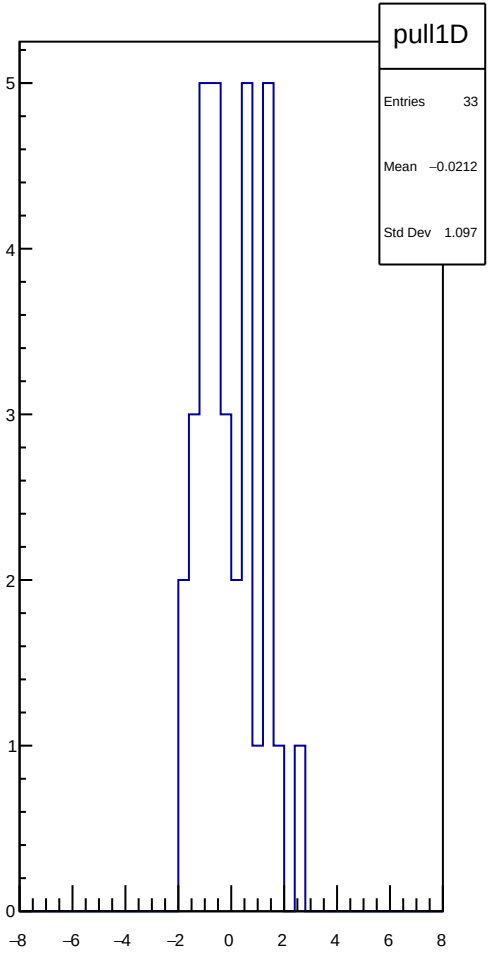

dit_asym_at1_avg_rms vs run
χ² / ndf 1699 / 32
p0 2239 ± 2.777
2800
2700
2600
2500
2400
2300
2200
2100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

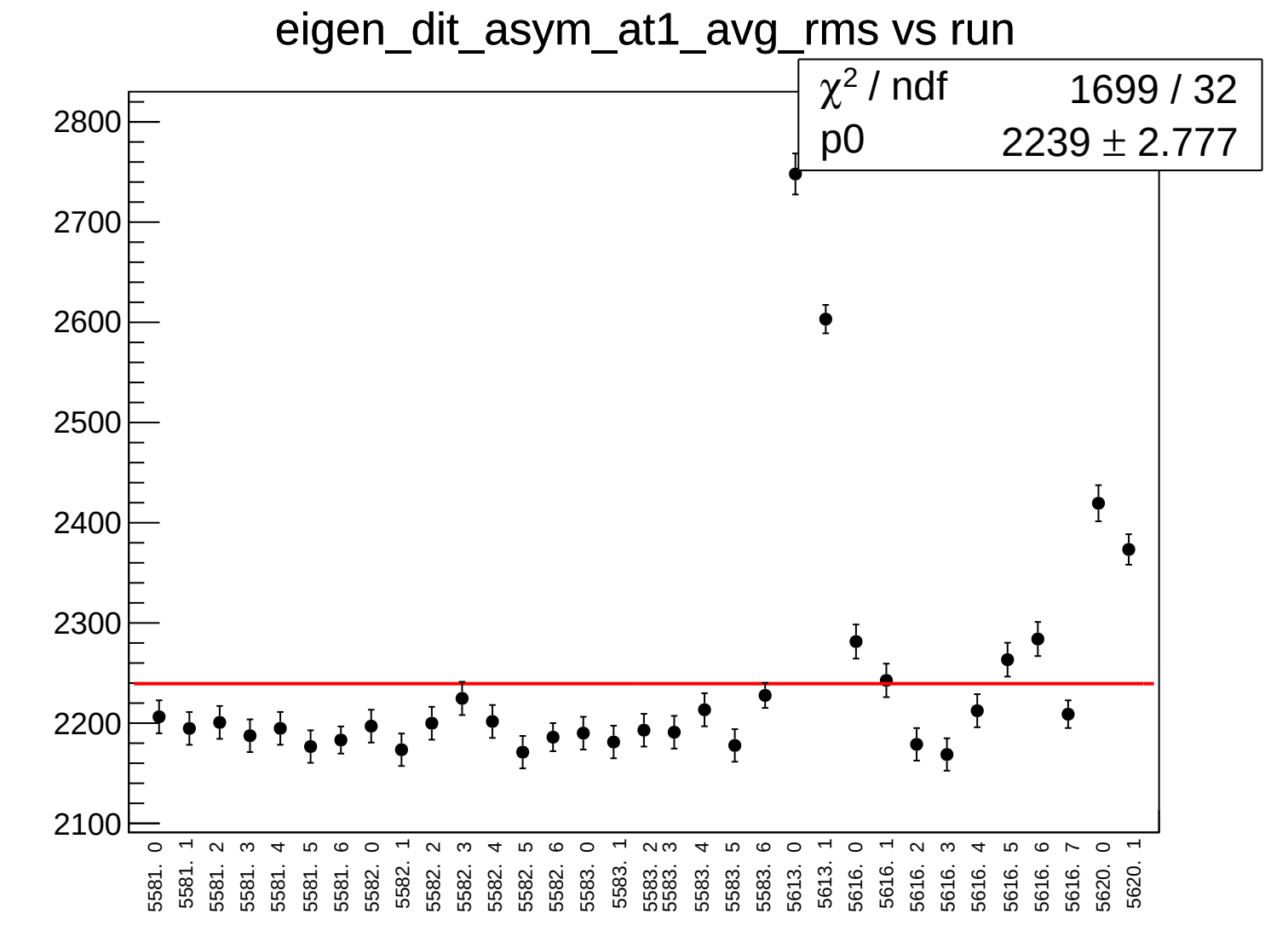

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 34.05 / 32
p0 1300 ± 927.7
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 12.49
Std Dev 38.54
2
1
0
−1
−2
−3

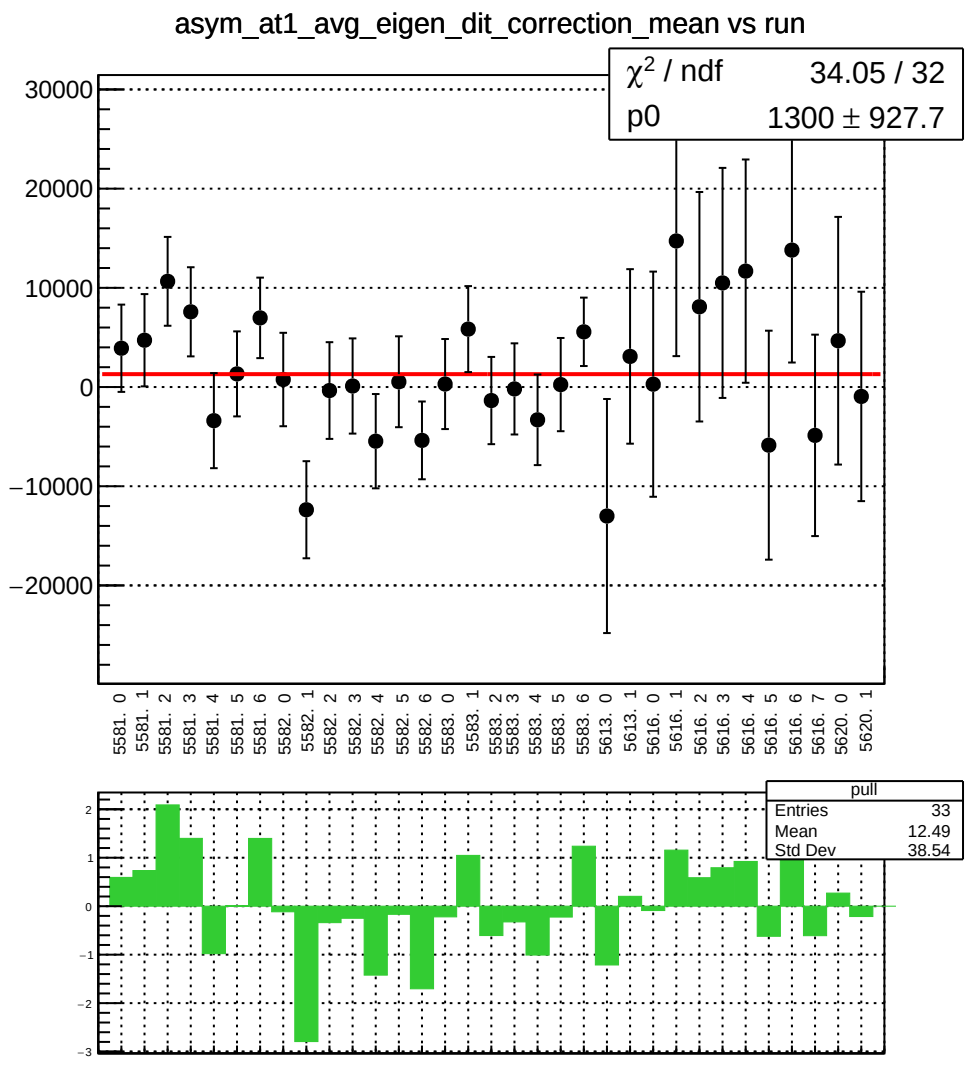

pull1D
Entries 33
Mean 0.01976
Std Dev 1.016
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

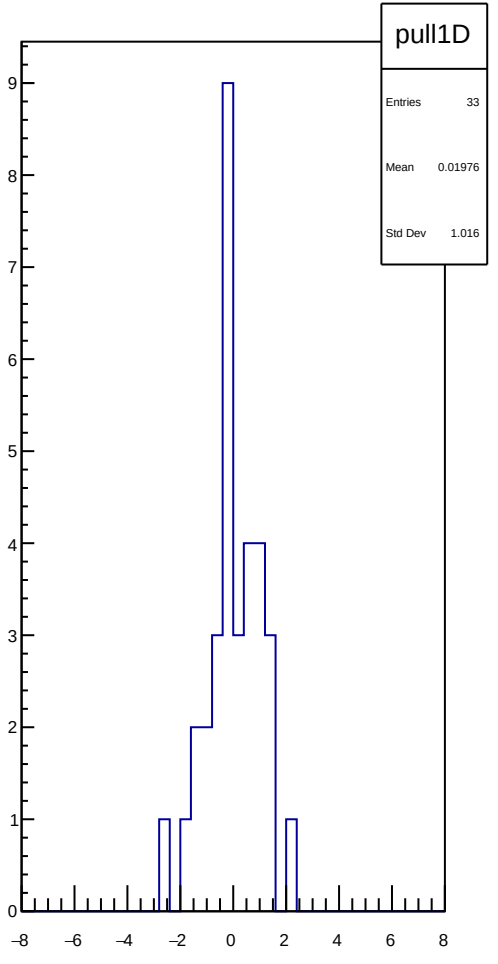

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 8.413e+04 / 32
p0 494.3 ± 0.656
1200
1100
1000
900
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

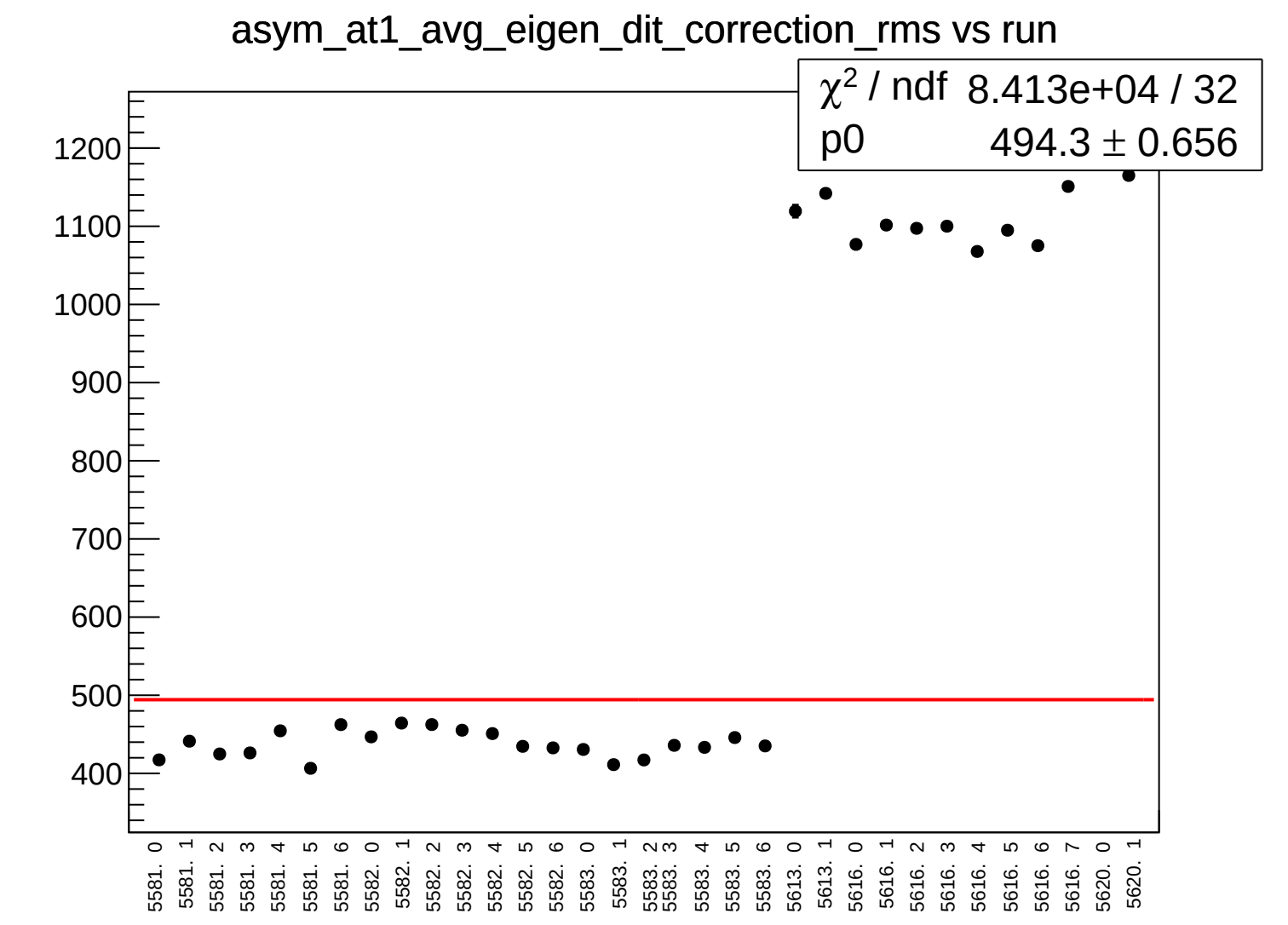

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 39.76 / 32
p0 −784.7 ± 3927
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 111.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

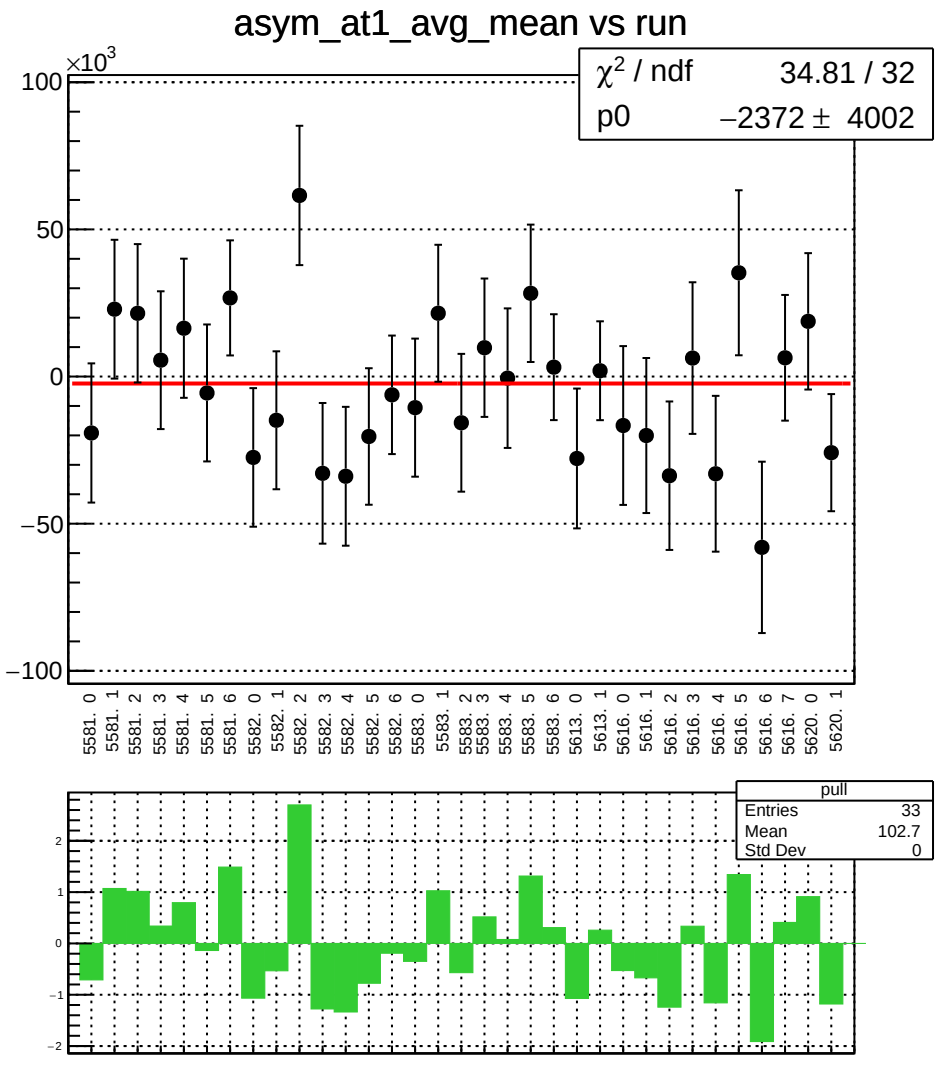

pull1D
Entries 33
Mean −0.0212
Std Dev 1.097
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

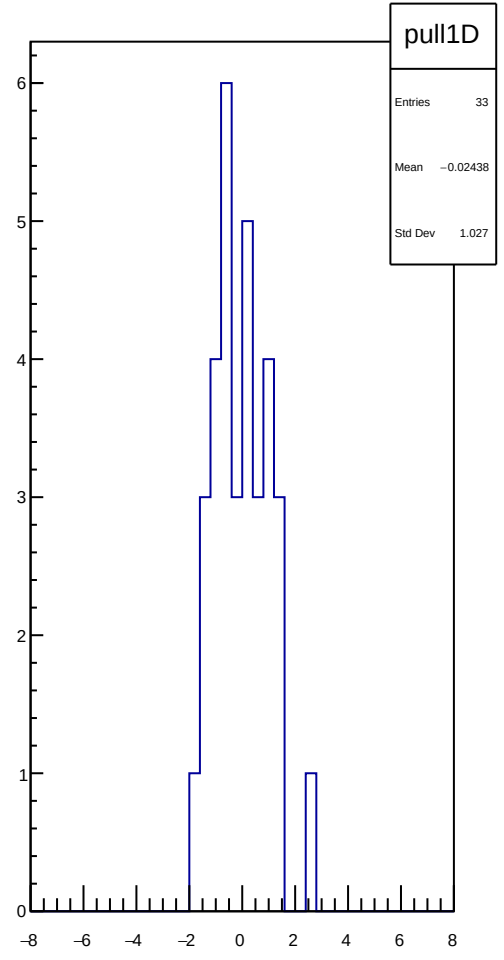

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 1699 / 32
p0 2239 ± 2.777
2800
2700
2600
2500
2400
2300
2200
2100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

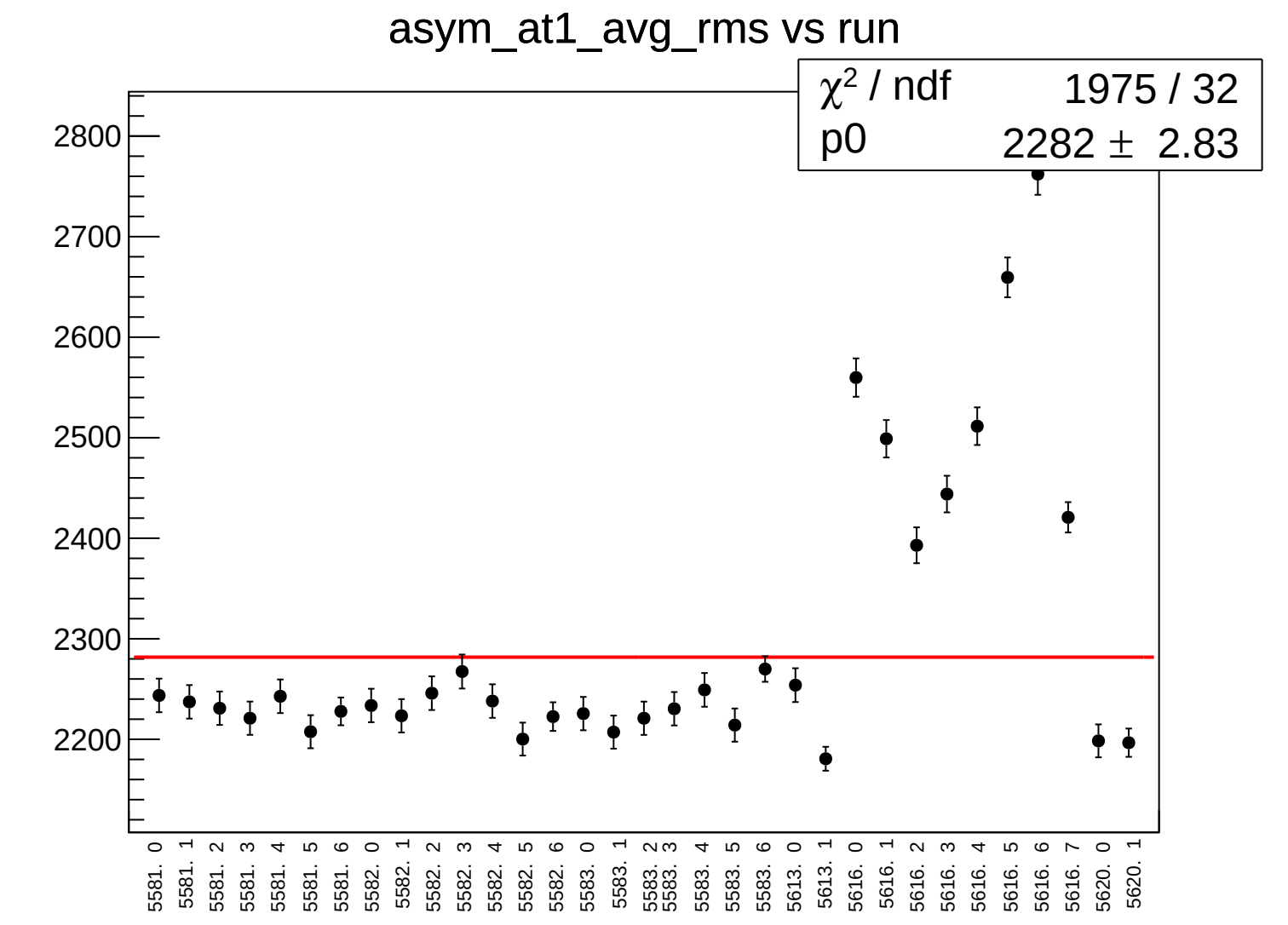

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 34.05 / 32
p0 1300 ± 927.7
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 12.49
Std Dev 38.54
2
1
0
−1
−2
−3

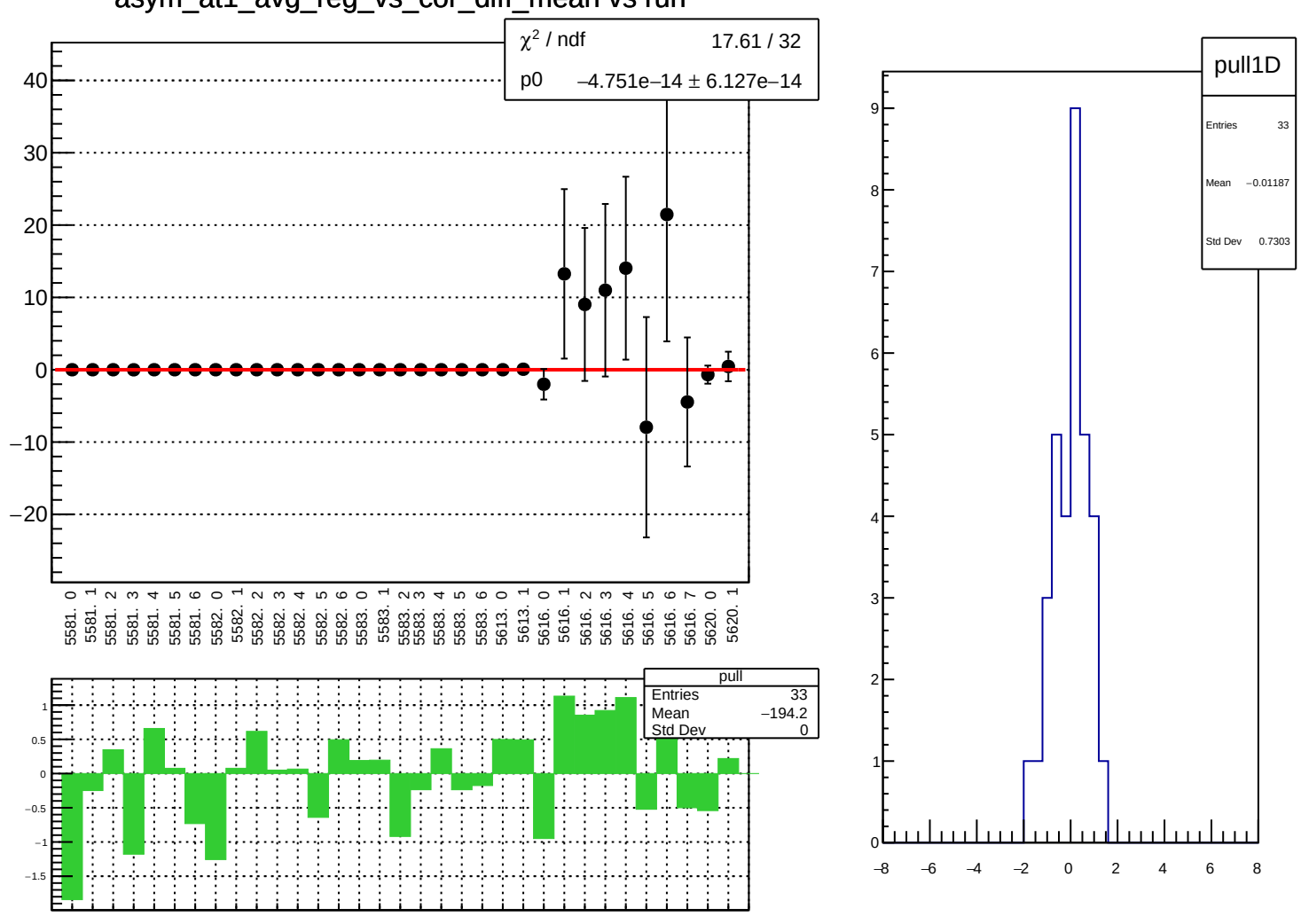

pull1D
Entries 33
Mean 0.01976
Std Dev 1.016
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

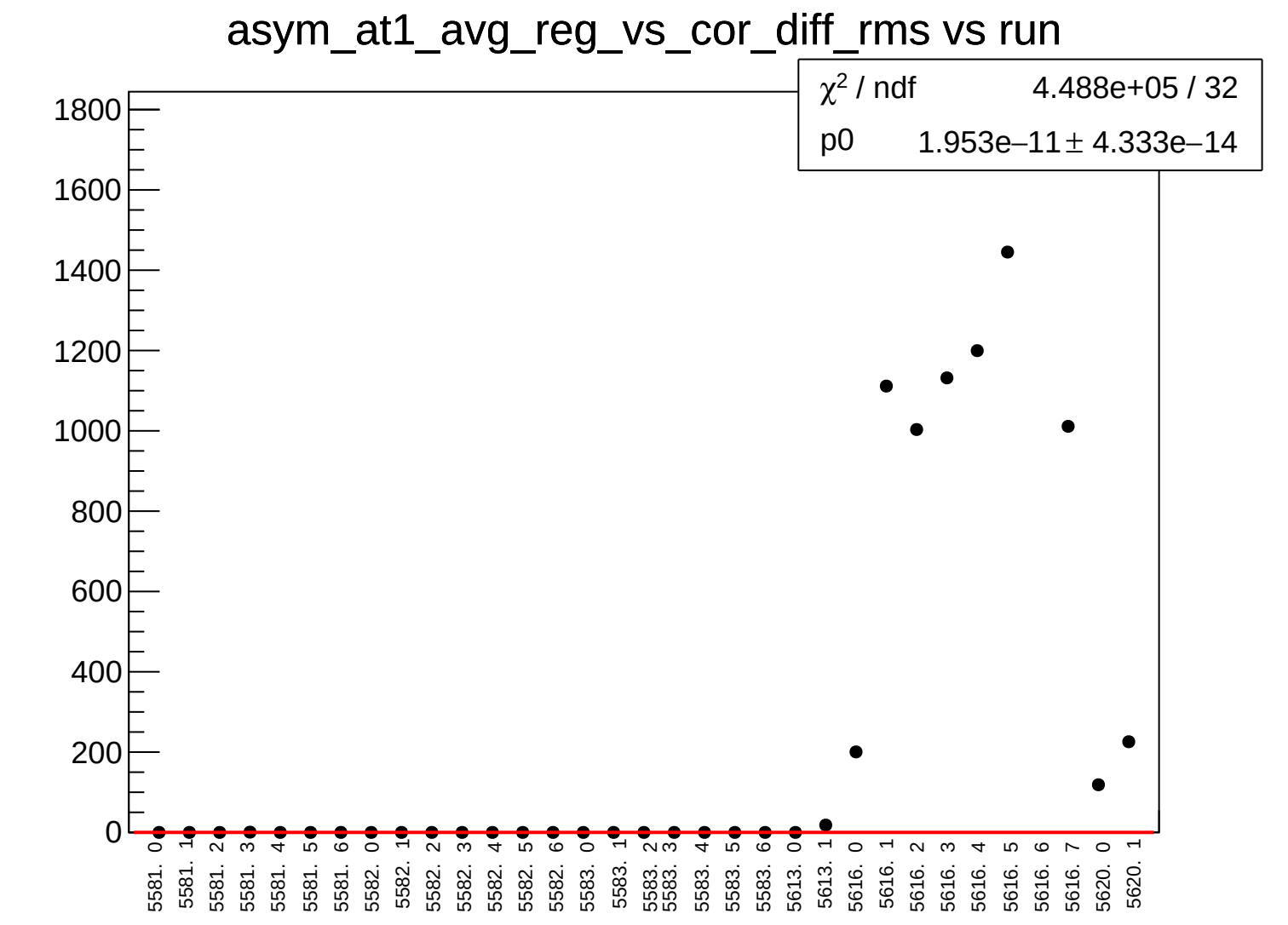

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8.413e+04 / 32
p0 494.3 ± 0.656
1200
1100
1000
900
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

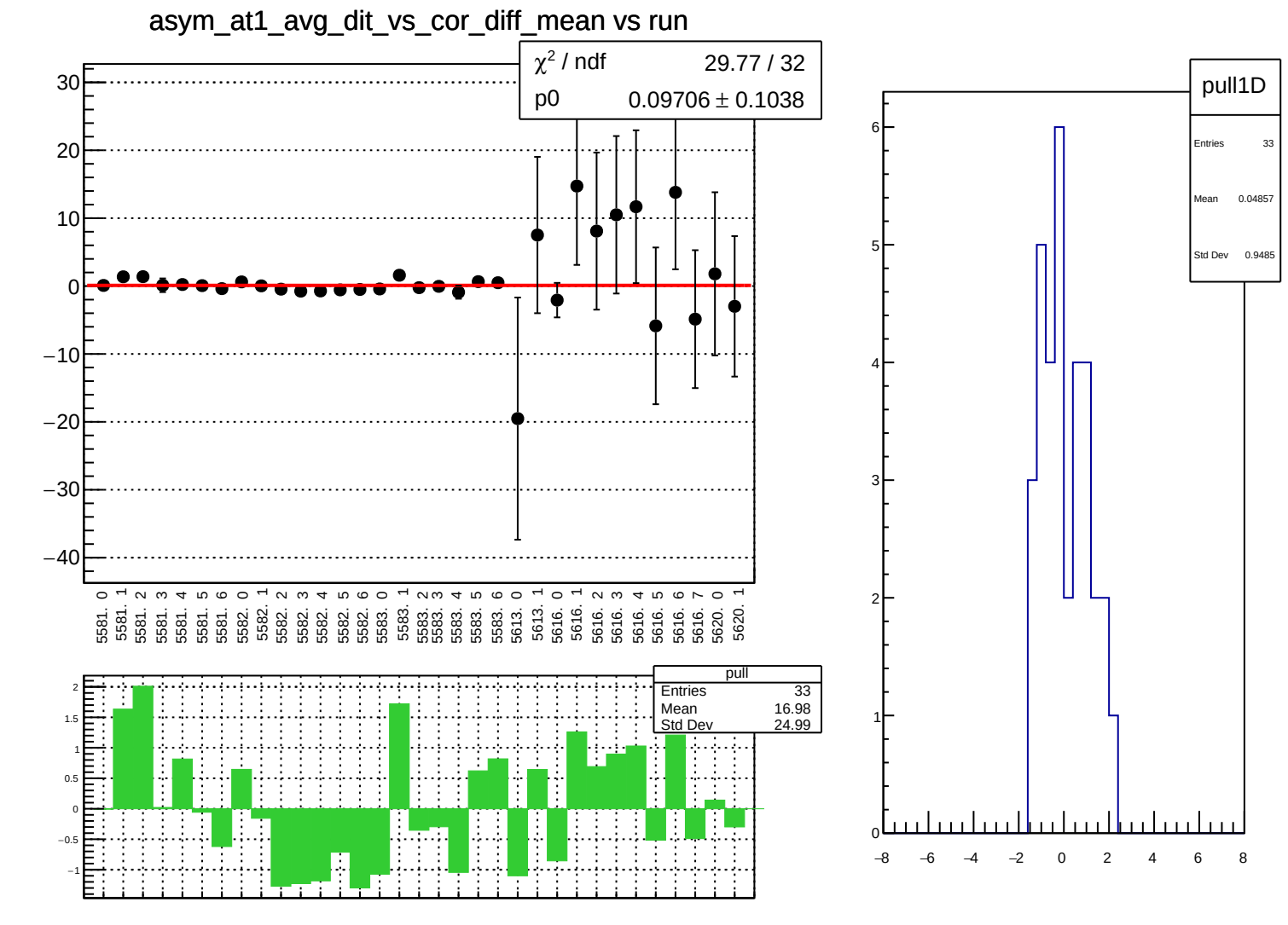

asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 34.81 / 32
p0 −2372 ± 4002
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 102.7
Std Dev 0
2
1
0
−1
−2

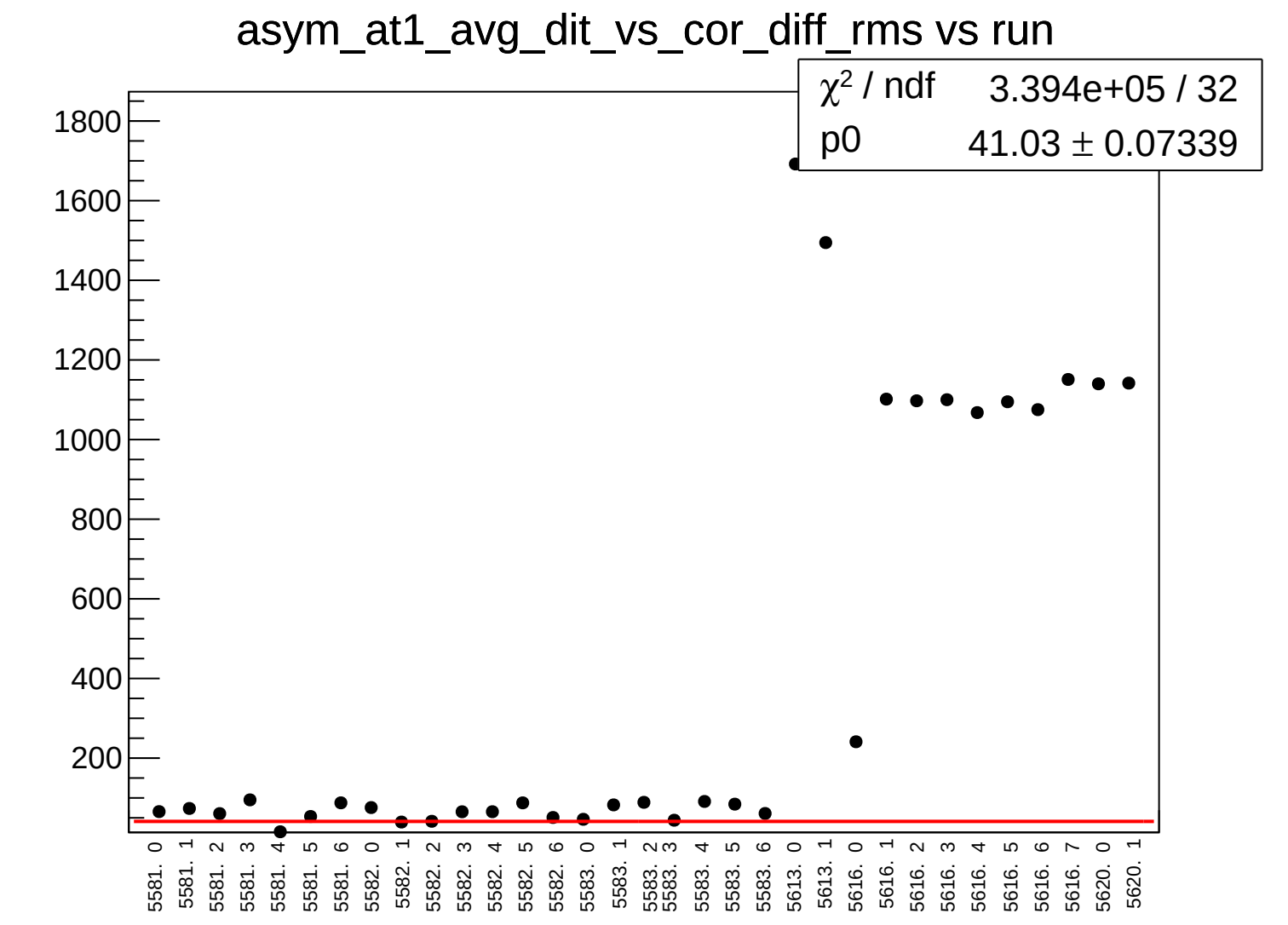

pull1D
Entries 33
Mean −0.02438
Std Dev 1.027
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

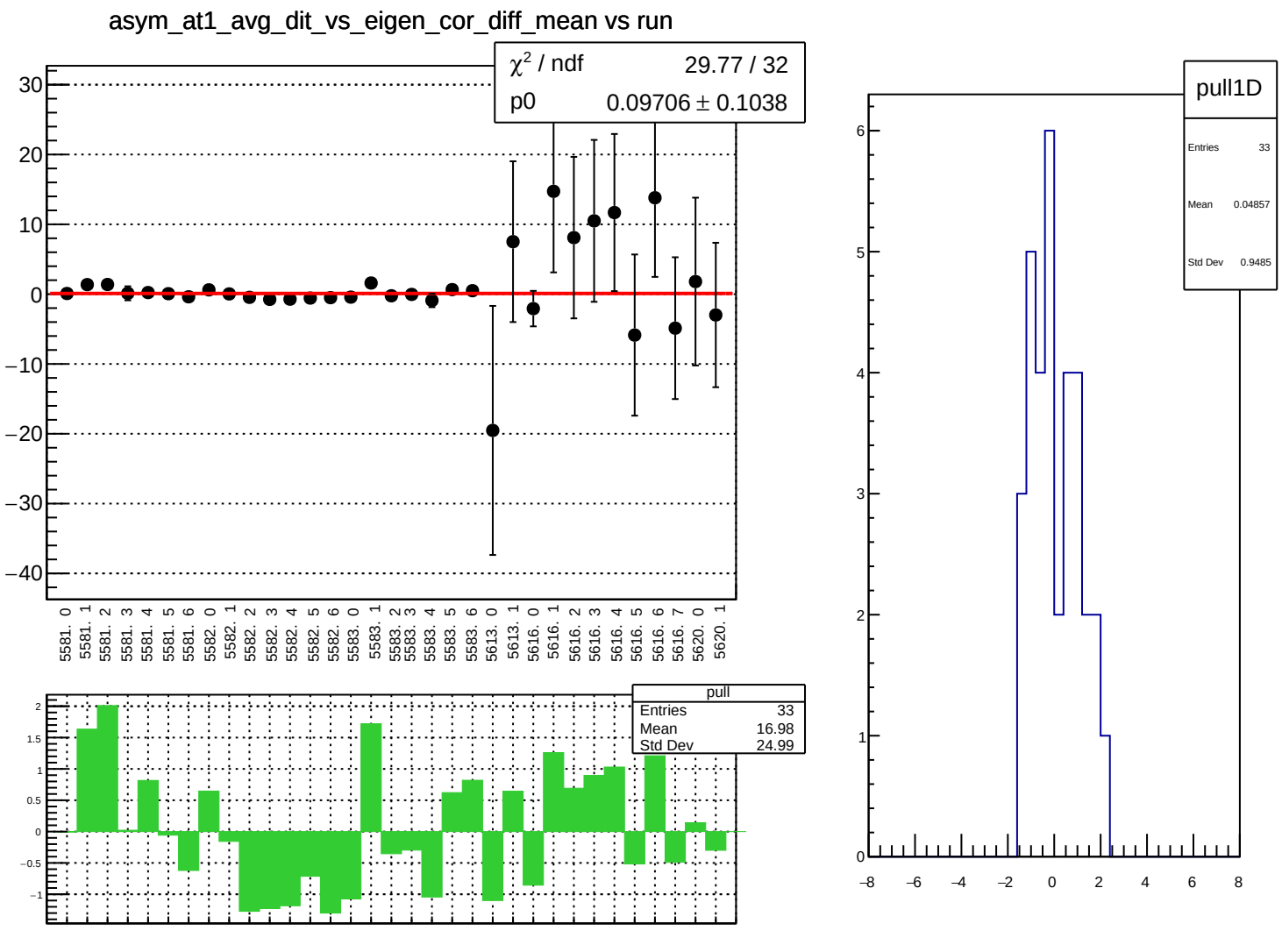

asym_at1_avg_rms vs run
χ² / ndf 1975 / 32
p0 2282 ± 2.83
2800
2700
2600
2500
2400
2300
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

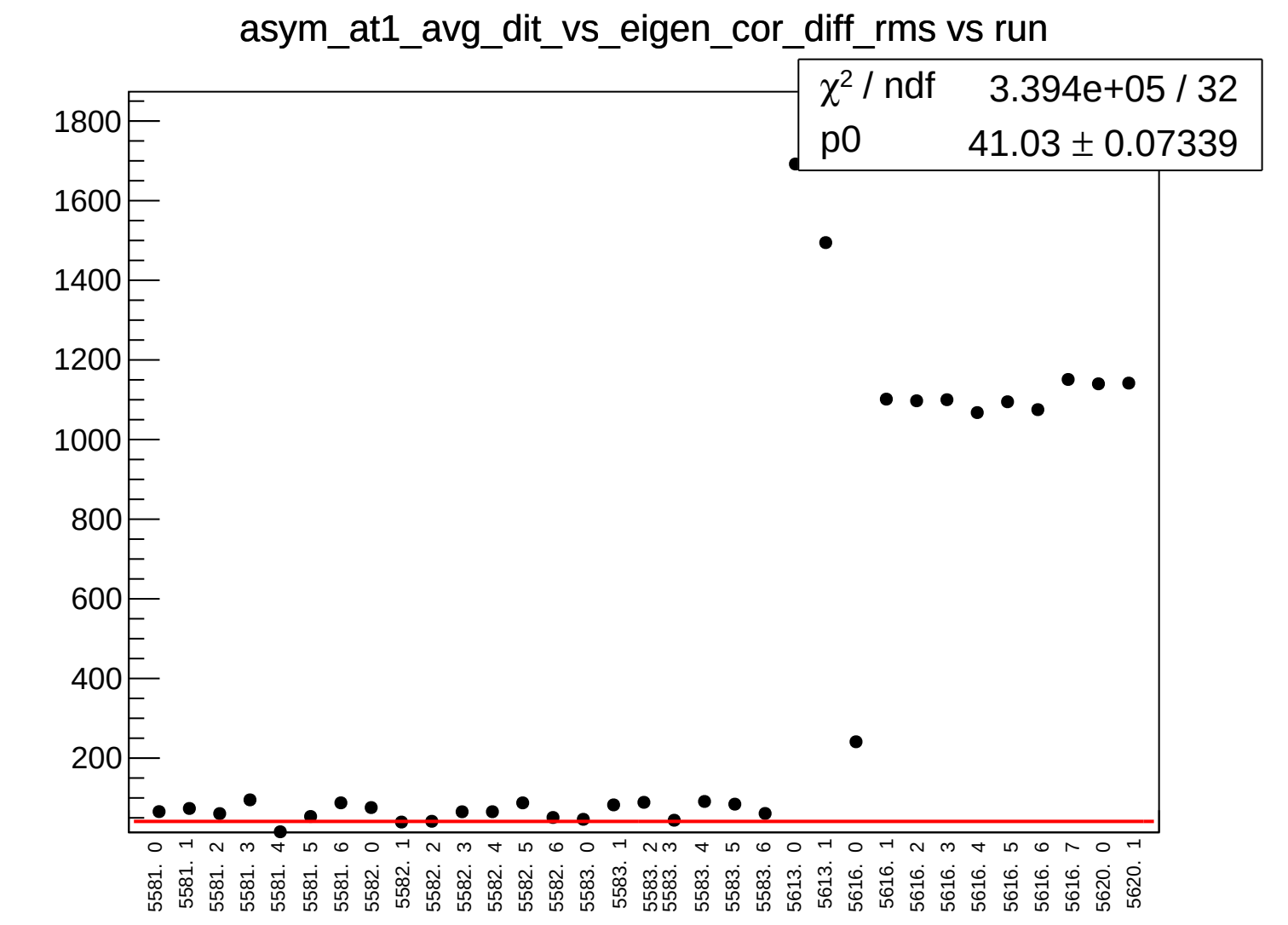

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 17.61 / 32
p0 −4.751e−14 ± 6.127e−14
pull
Entries 33
Mean −194.2
Std Dev 0
pull1D
Entries 33
Mean −0.01187
Std Dev 0.7303

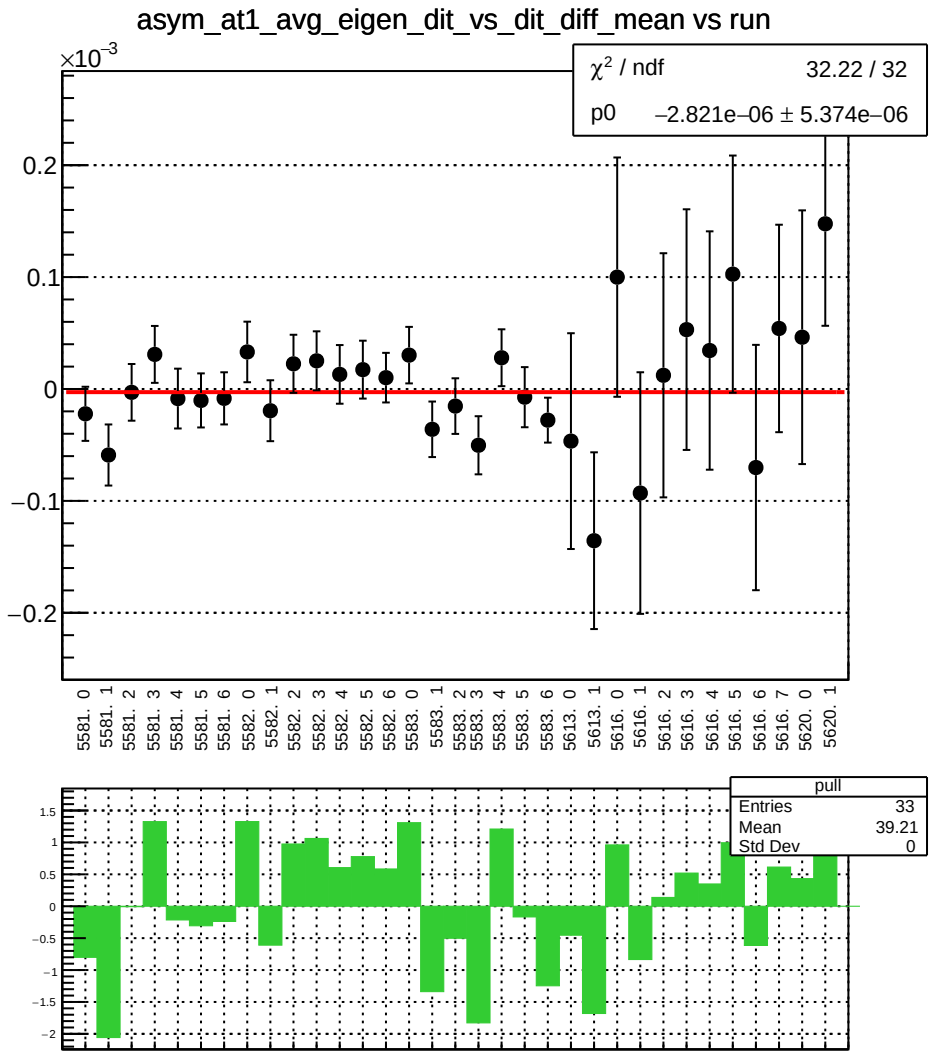

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.488e+05 / 32
p0 1.953e−11 ± 4.333e−14
1800
1600
1400
1200
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

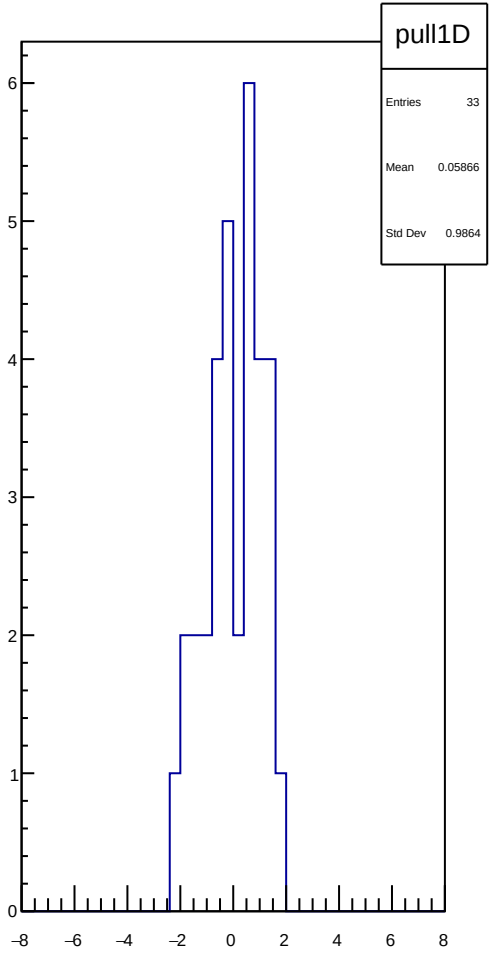

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 29.77 / 32
p0 0.09706 ± 0.1038
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.98
Std Dev 24.99
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.04857
Std Dev 0.9485
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

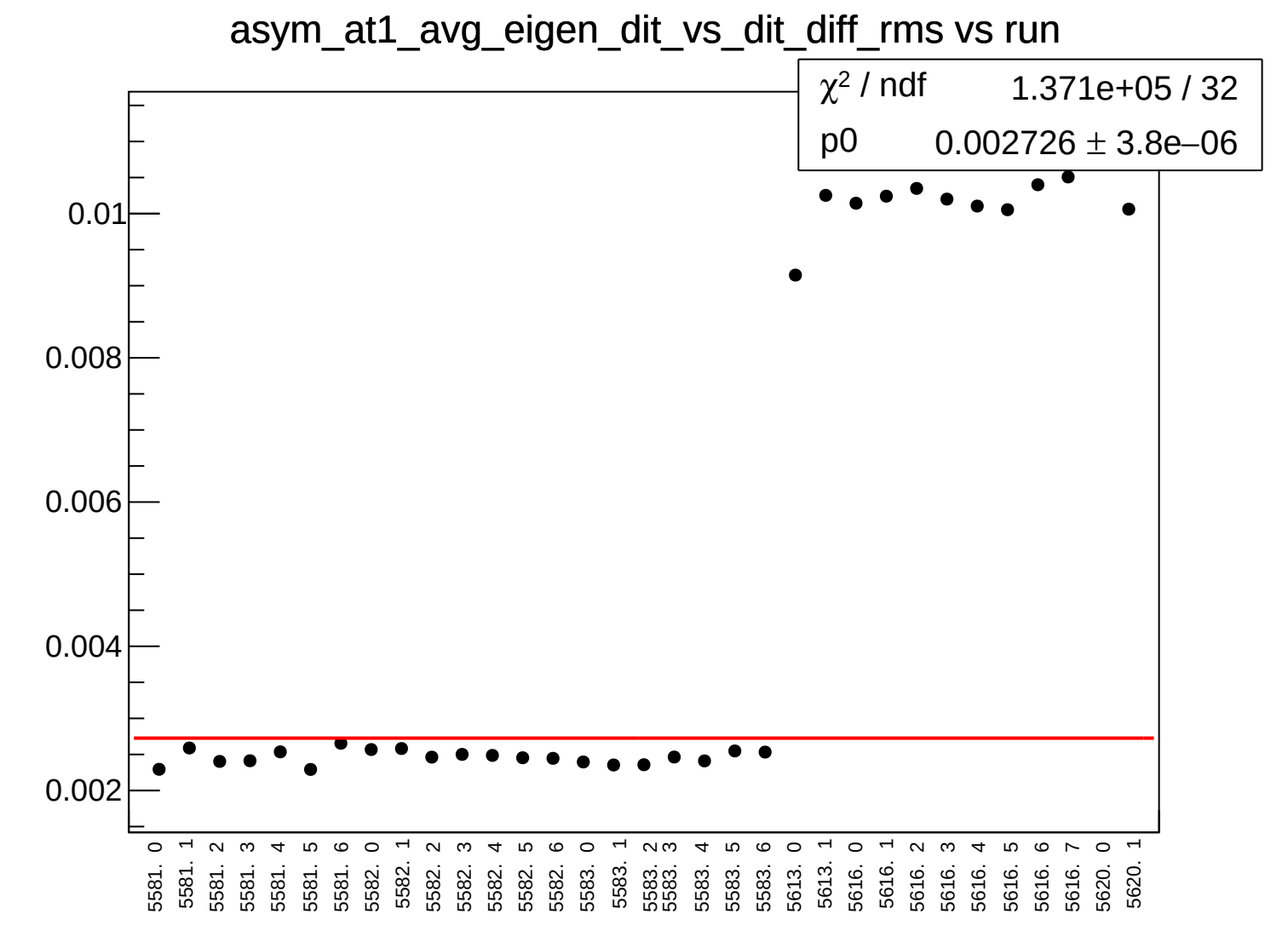

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.394e+05 / 32
p0 41.03 ± 0.07339
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

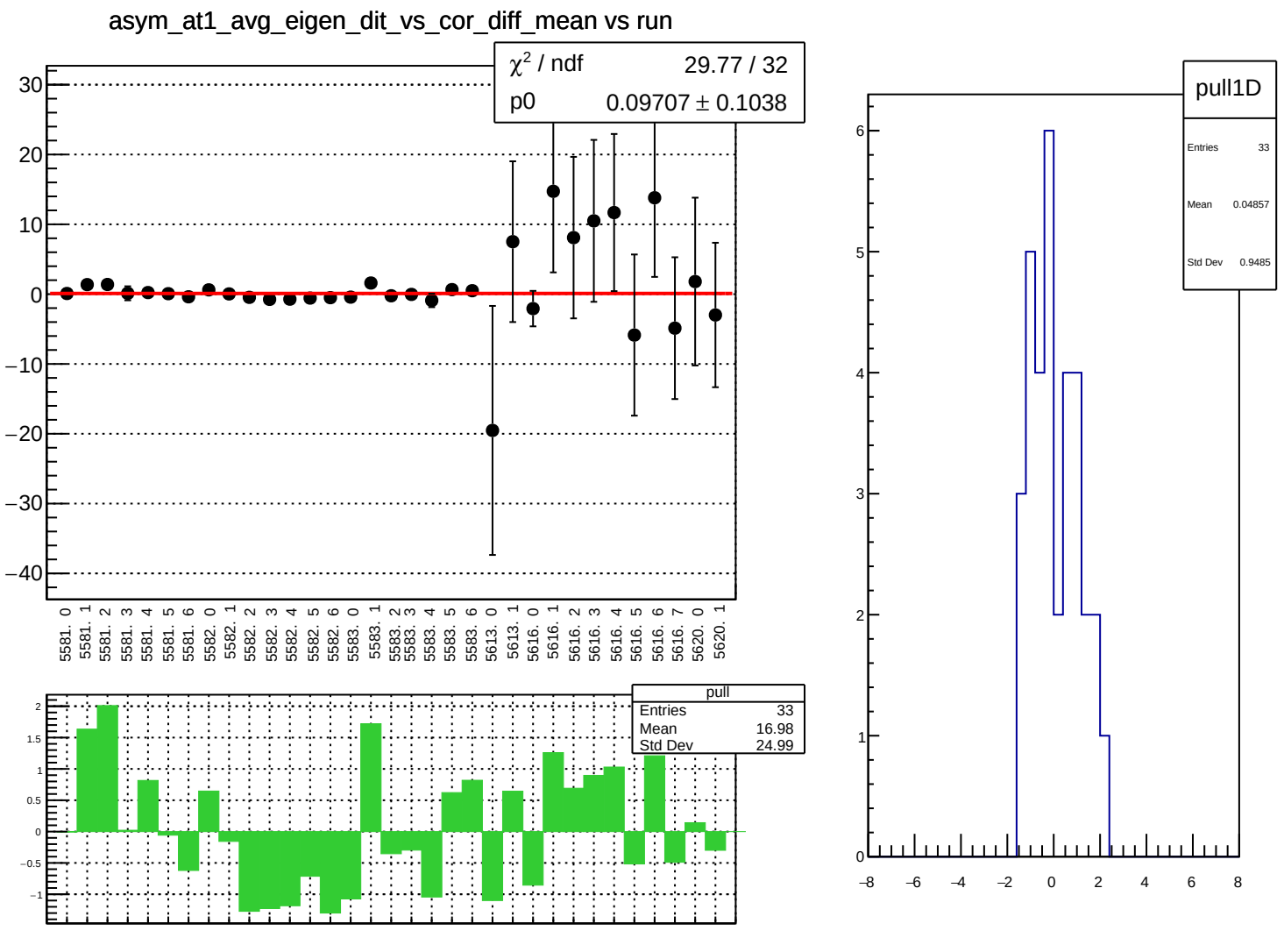

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.77 / 32
p0 0.09706 ± 0.1038
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.98
Std Dev 24.99
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.04857
Std Dev 0.9485
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

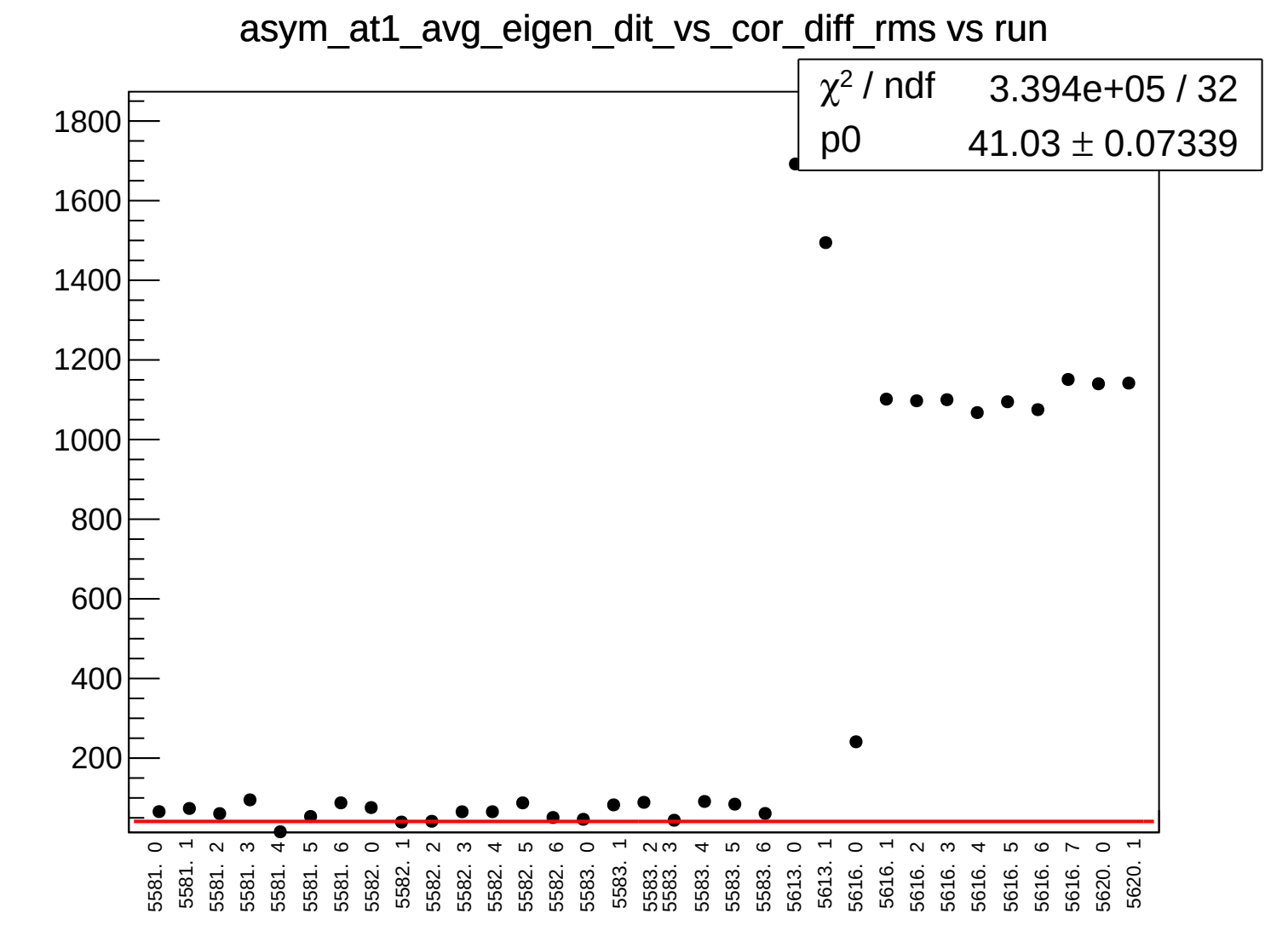

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.394e+05 / 32
p0 41.03 ± 0.07339
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

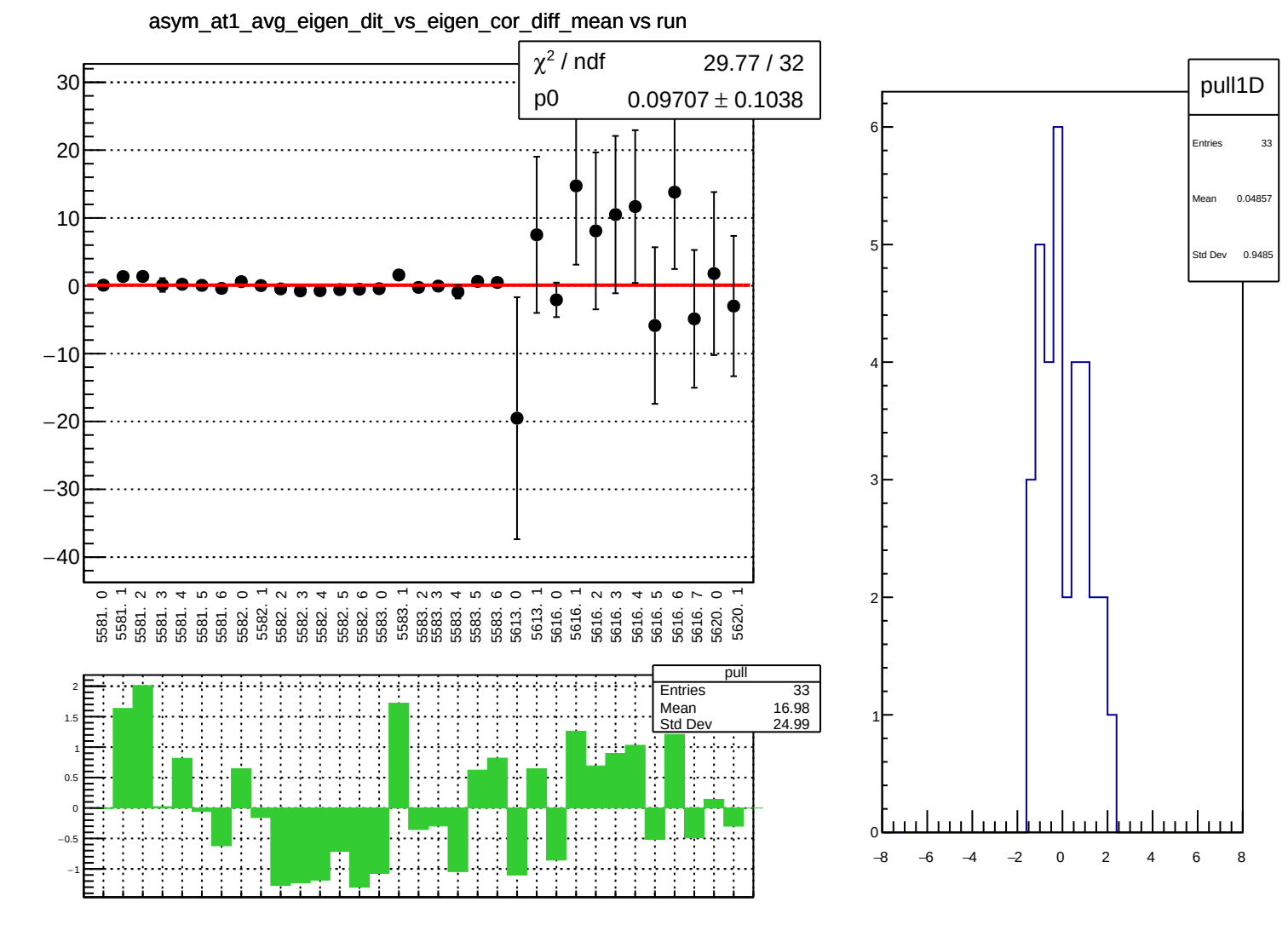

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.22 / 32
p0 −2.821e−06 ± 5.374e−06
0.2
0.1
0
−0.1
−0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

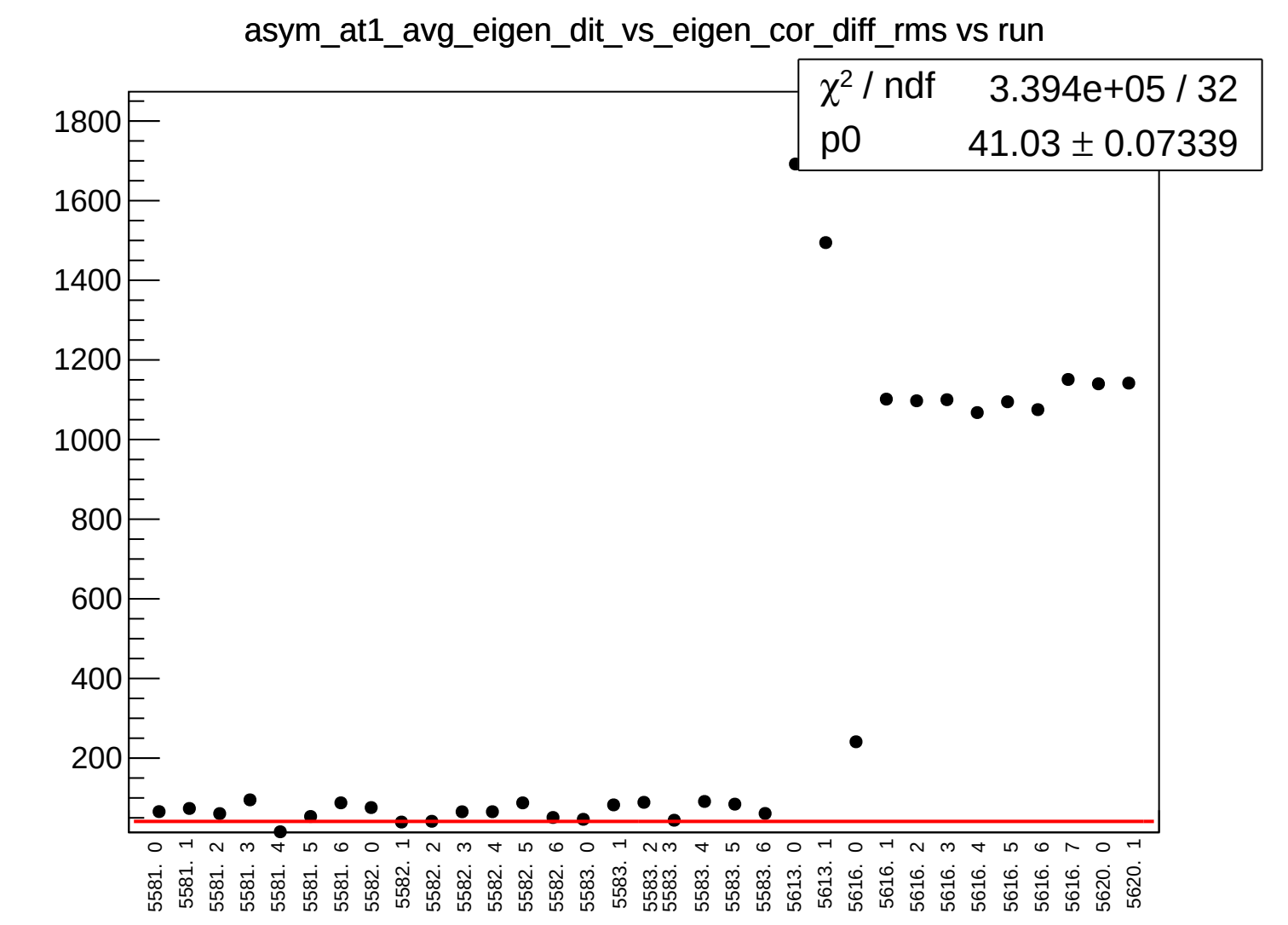

pull1D
Entries 33
Mean 0.05866
Std Dev 0.9864
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

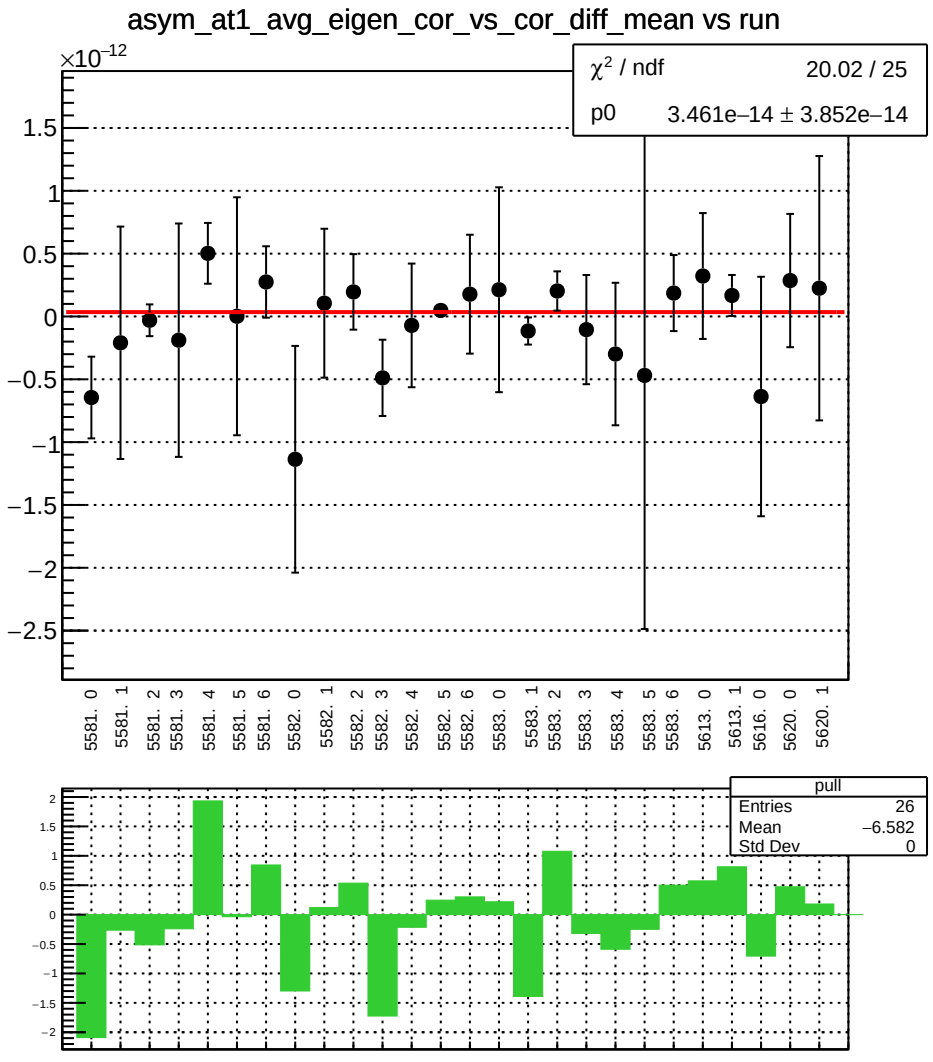

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.371e+05 / 32
p0 0.002726 ± 3.8e−06
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

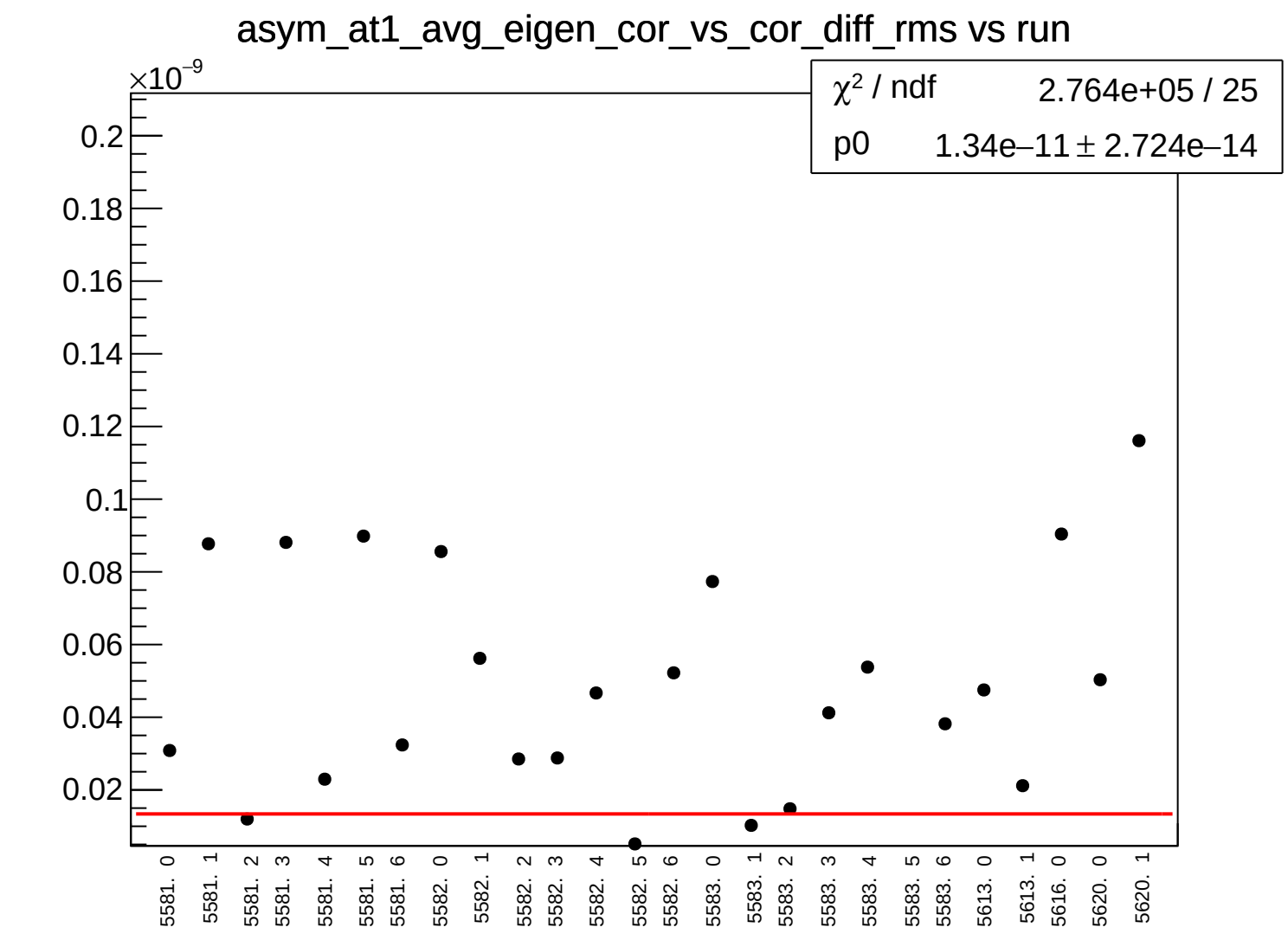

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.77 / 32
p0 0.09707 ± 0.1038
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.98
Std Dev 24.99
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.04857
Std Dev 0.9485
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

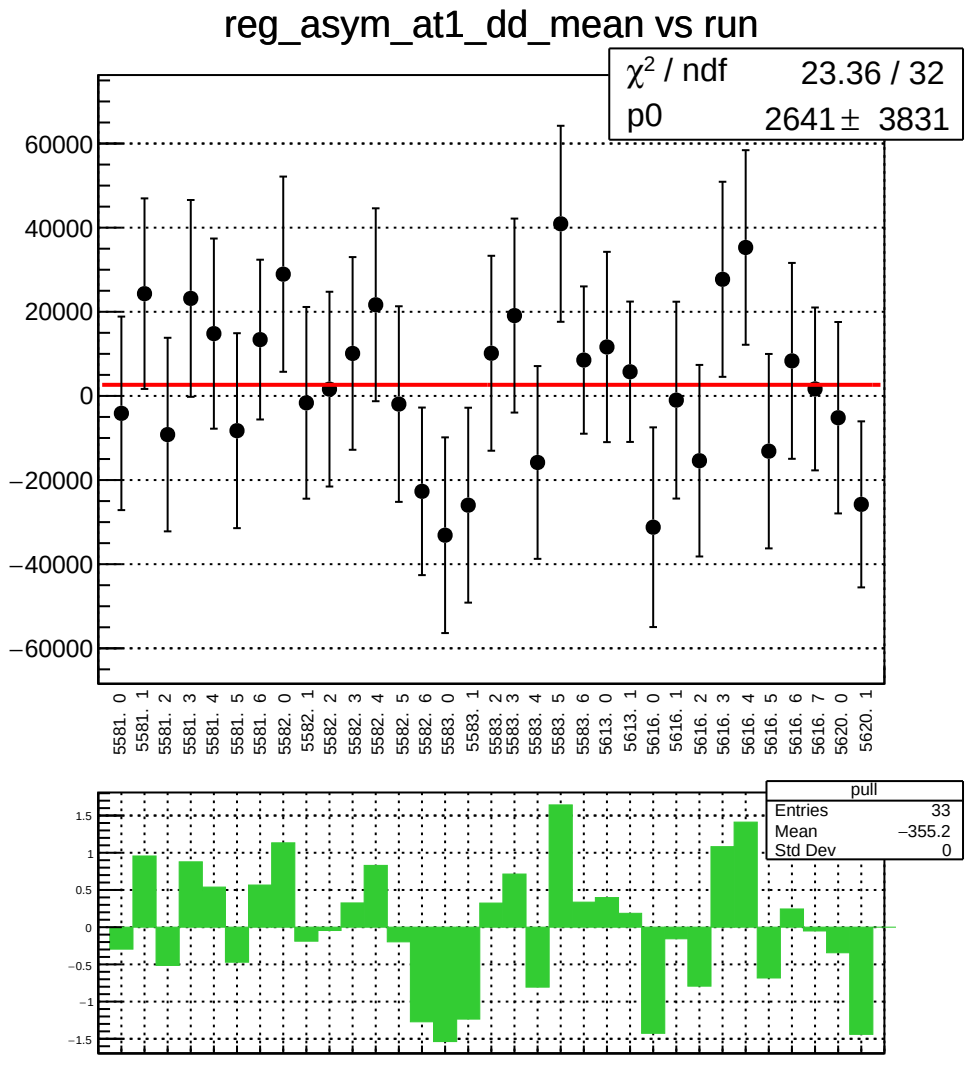

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.394e+05 / 32
p0 41.03 ± 0.07339
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

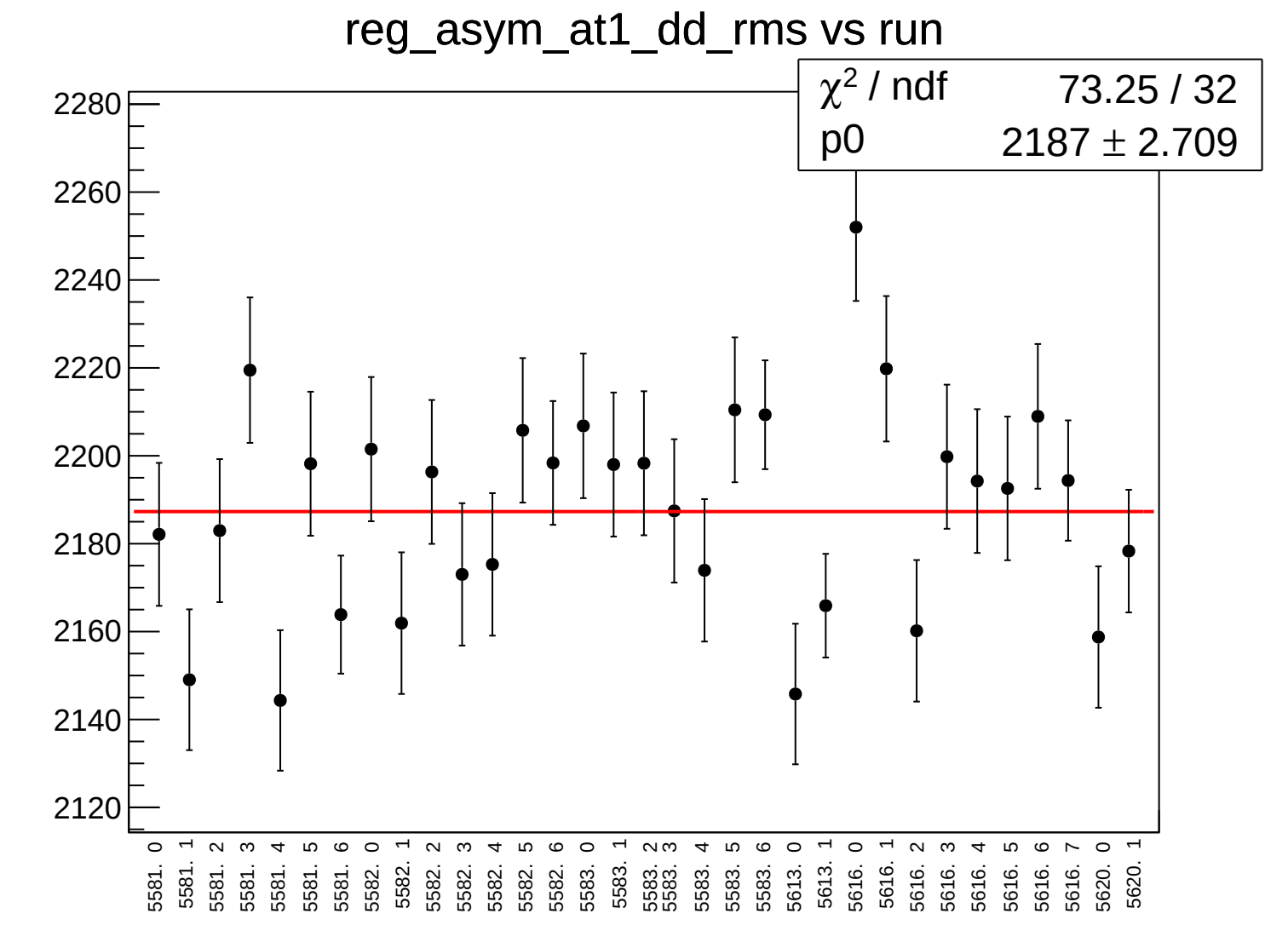

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.77 / 32
p0 0.09707 ± 0.1038
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.98
Std Dev 24.99
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.04857
Std Dev 0.9485
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

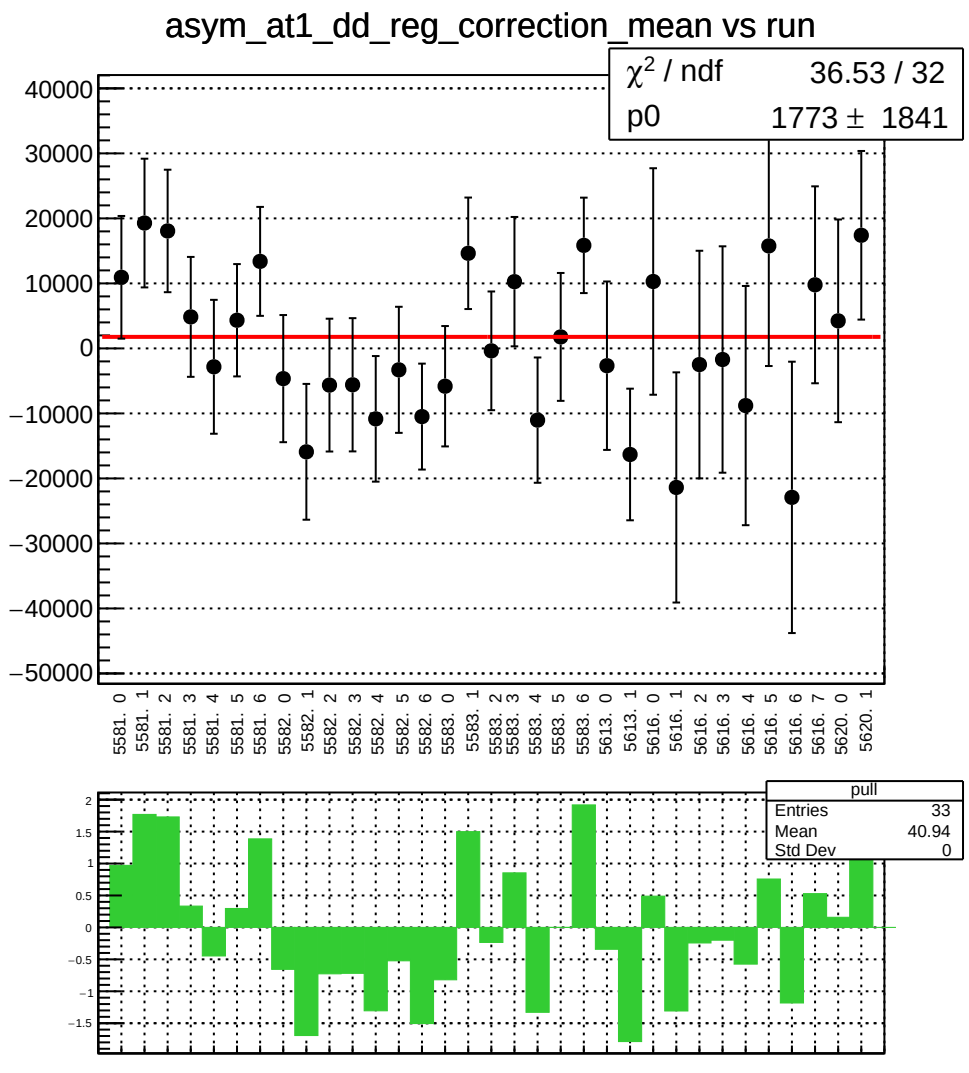

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.394e+05 / 32
p0 41.03 ± 0.07339
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

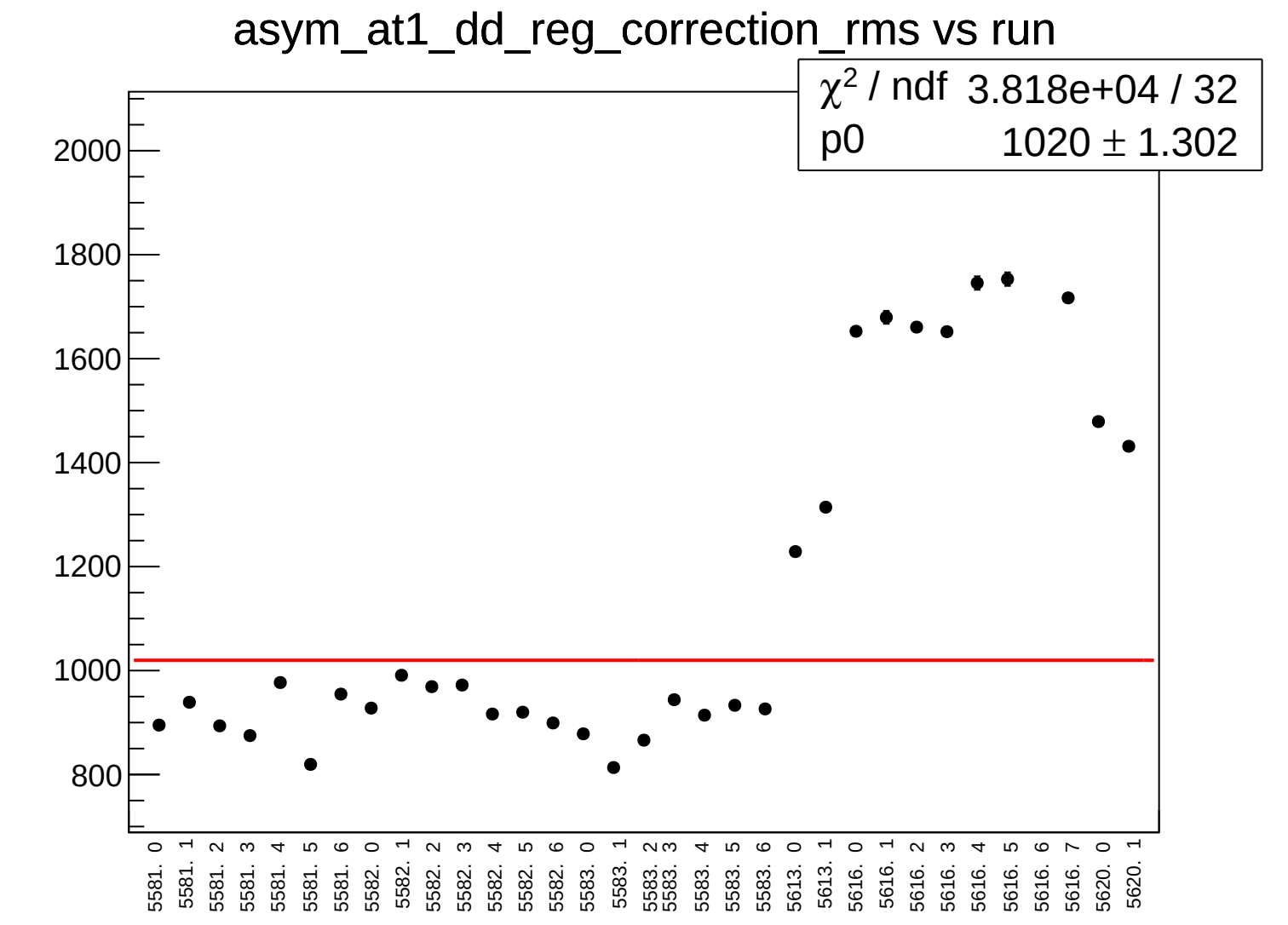

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 20.02 / 25
p0 3.461e−14 ± 3.852e−14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −6.582
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.06983
Std Dev 0.8746
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

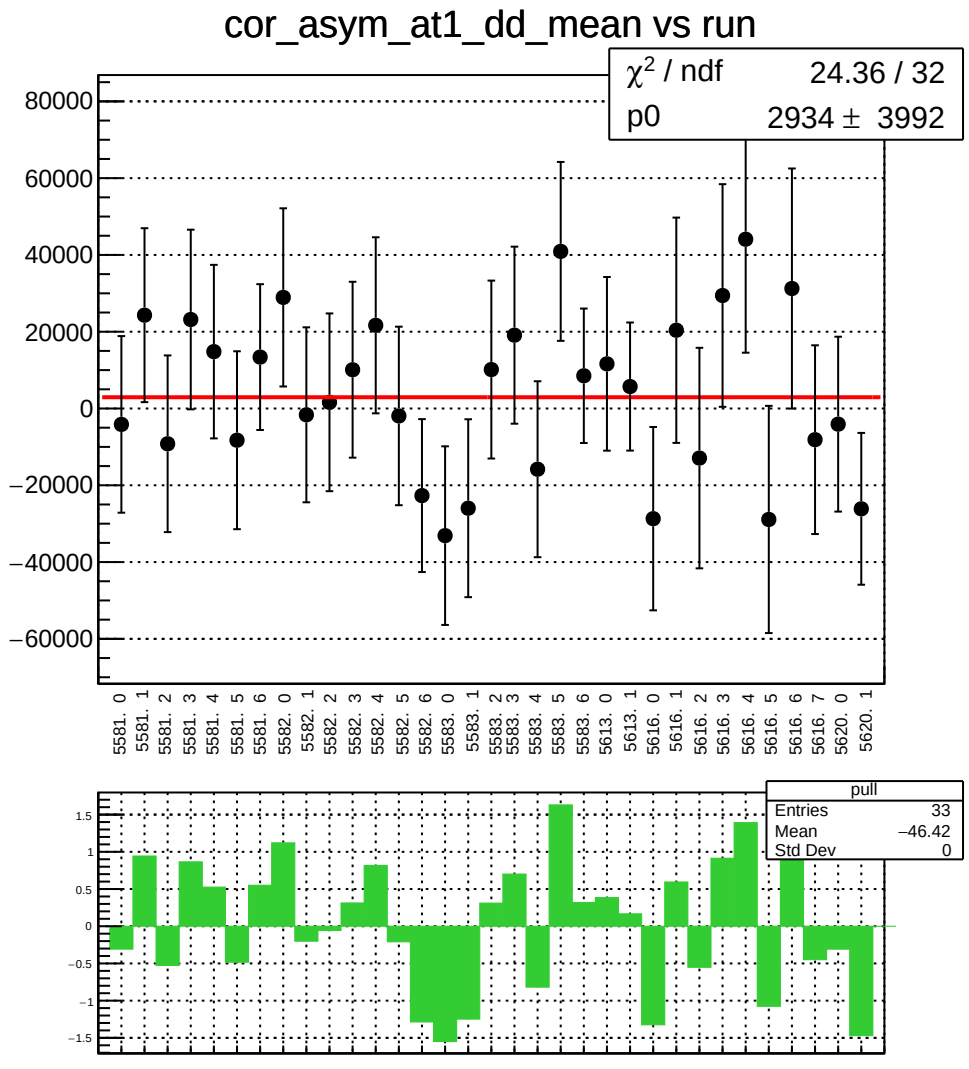

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.764e+05 / 25
p0 1.34e−11 ± 2.724e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

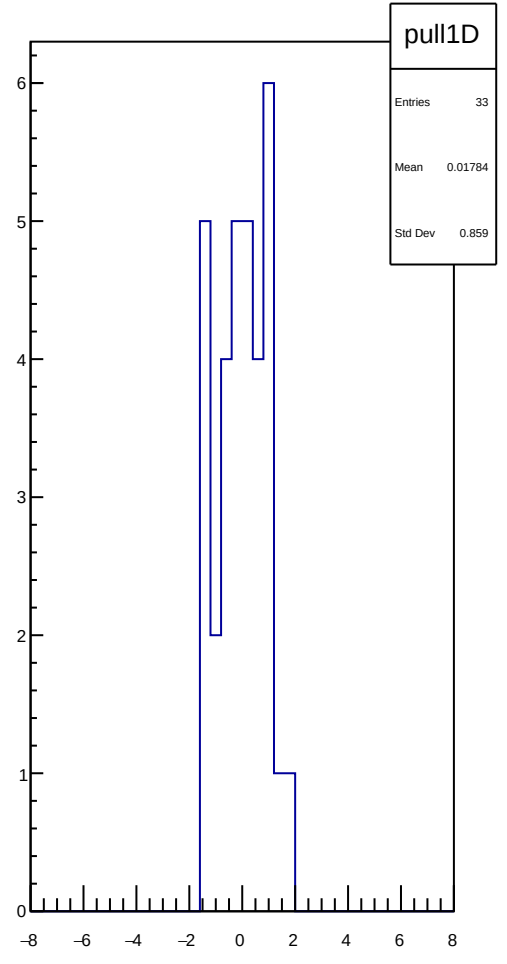

reg_asym_at1_dd_mean vs run
χ² / ndf 23.36 / 32
p0 2641 ± 3831
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −355.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.003572
Std Dev 0.8414
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

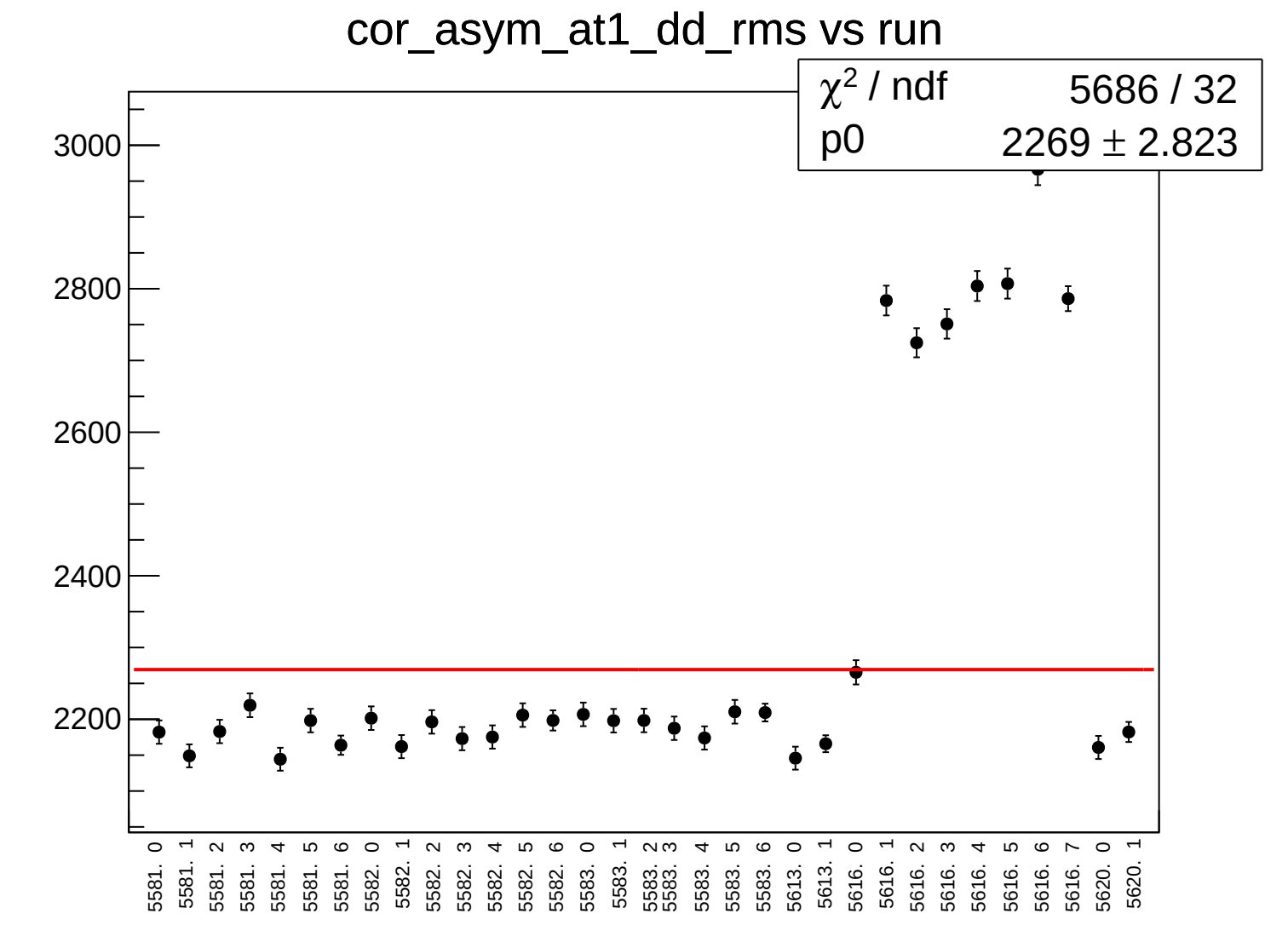

reg_asym_at1_dd_rms vs run
χ² / ndf 73.25 / 32
p0 2187 ± 2.709
2280
2260
2240
2220
2200
2180
2160
2140
2120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

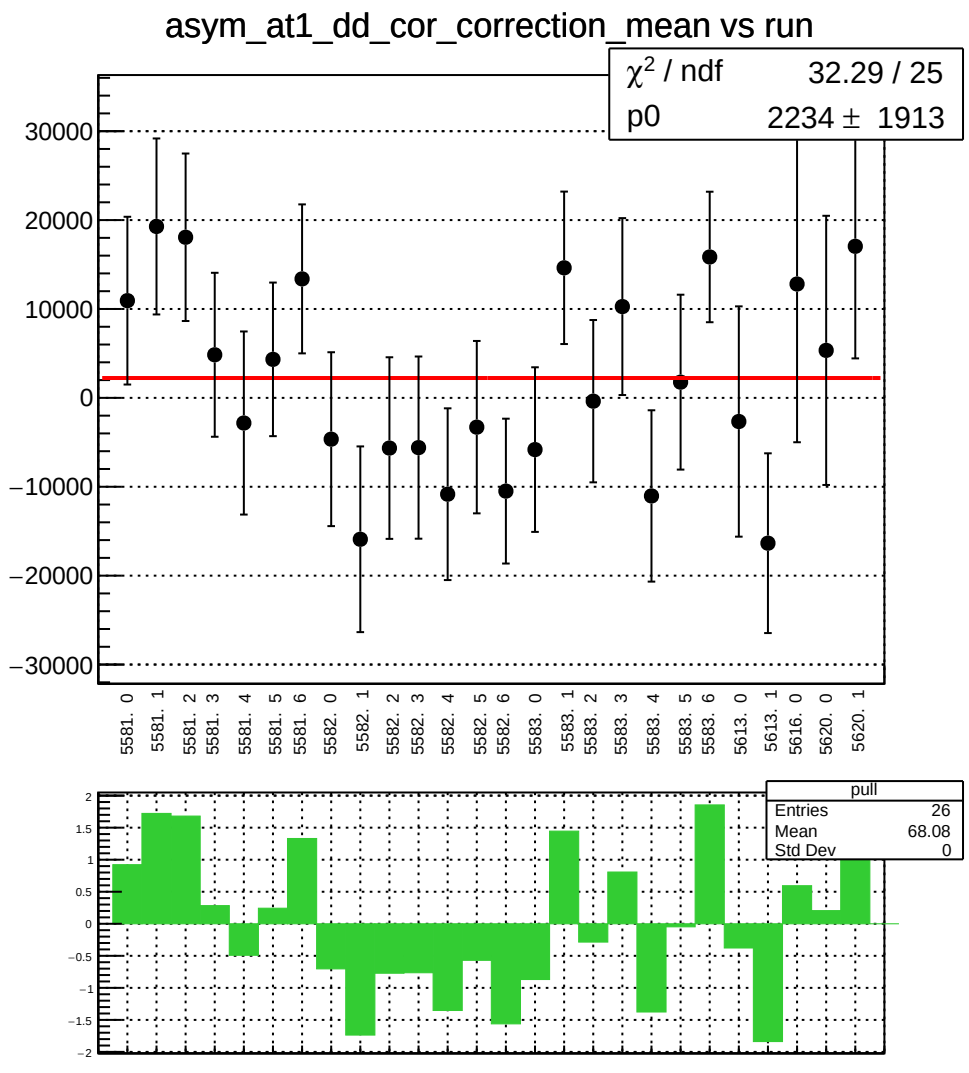

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 36.53 / 32
p0 1773 ± 1841
pull
Entries 33
Mean 40.94
Std Dev 0
pull1D
Entries 33
Mean −0.0516
Std Dev 1.051

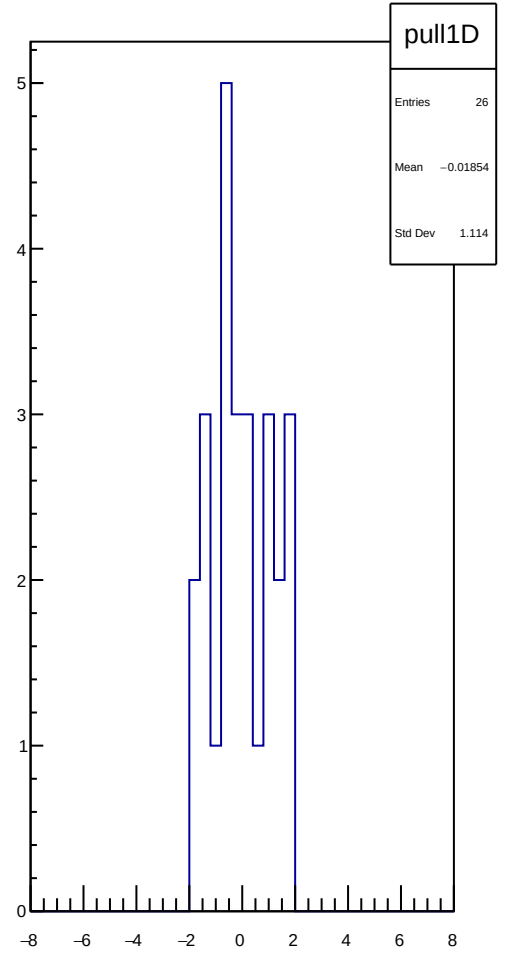

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 3.818e+04 / 32
p0 1020 ± 1.302
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

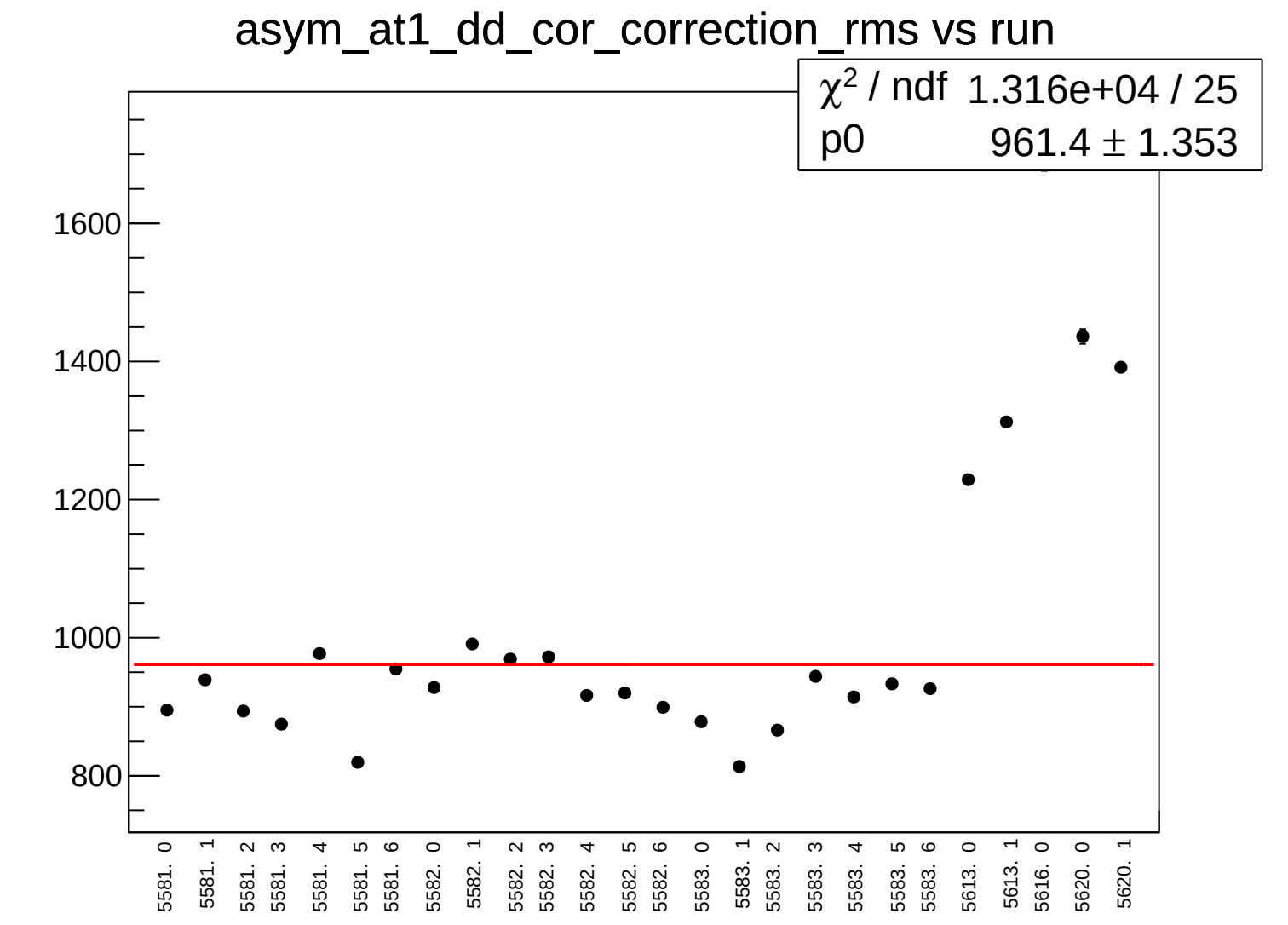

cor_asym_at1_dd_mean vs run
χ² / ndf 24.36 / 32
p0 2934 ± 3992
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −46.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

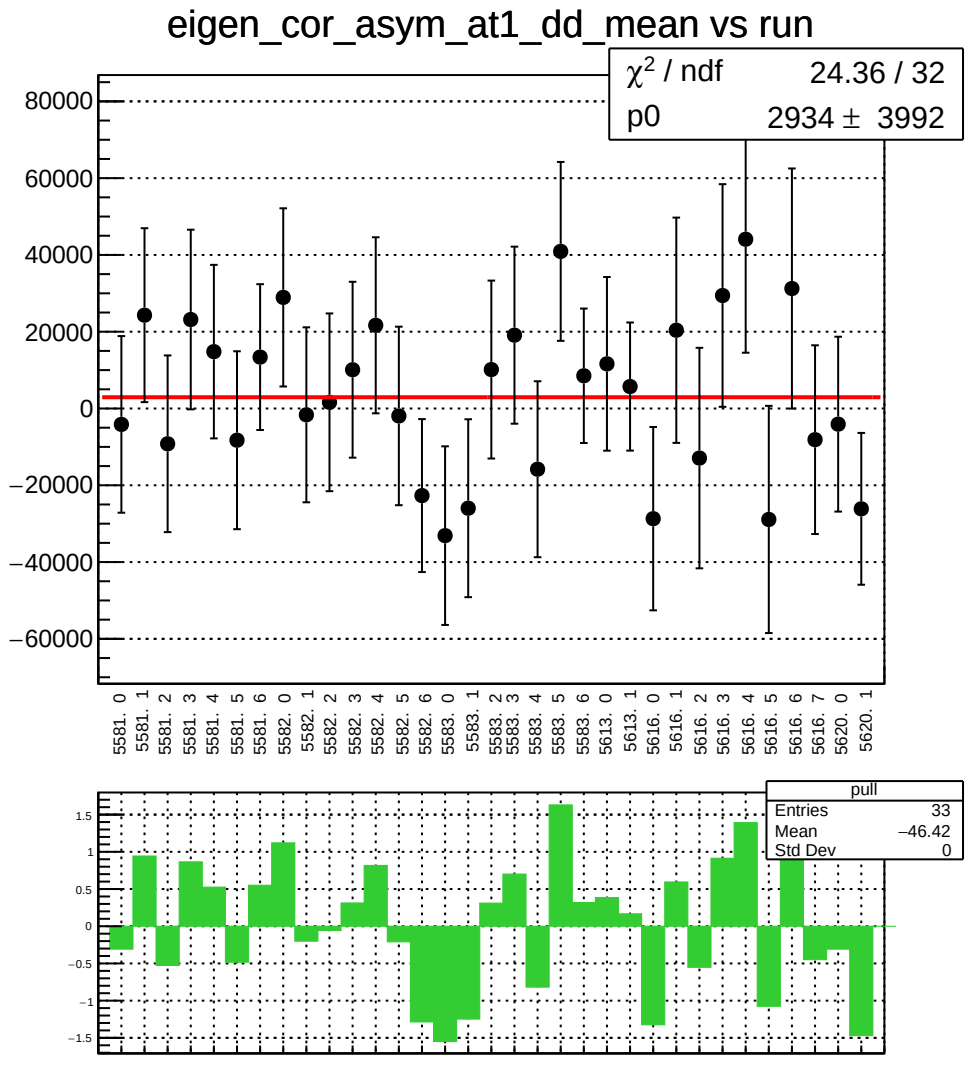

pull1D
Entries 33
Mean 0.01784
Std Dev 0.859
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

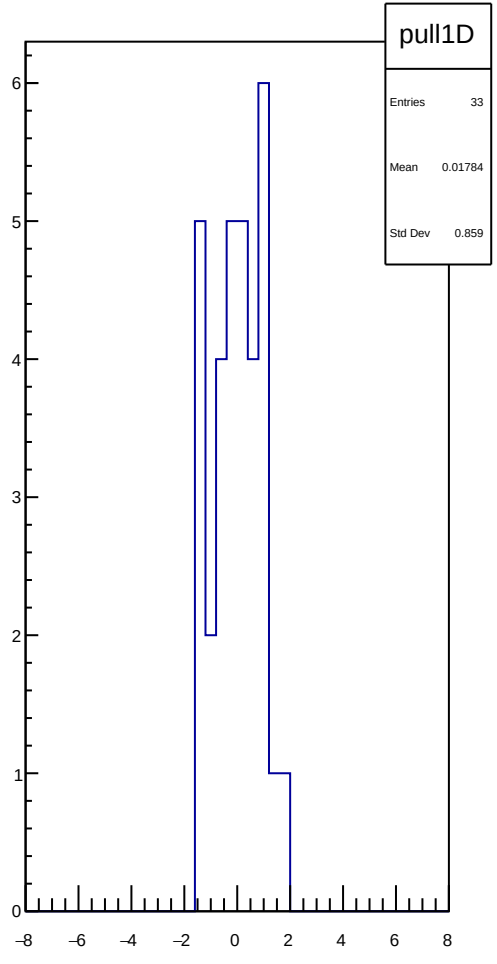

cor_asym_at1_dd_rms vs run
χ² / ndf 5686 / 32
p0 2269 ± 2.823
3000
2800
2600
2400
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

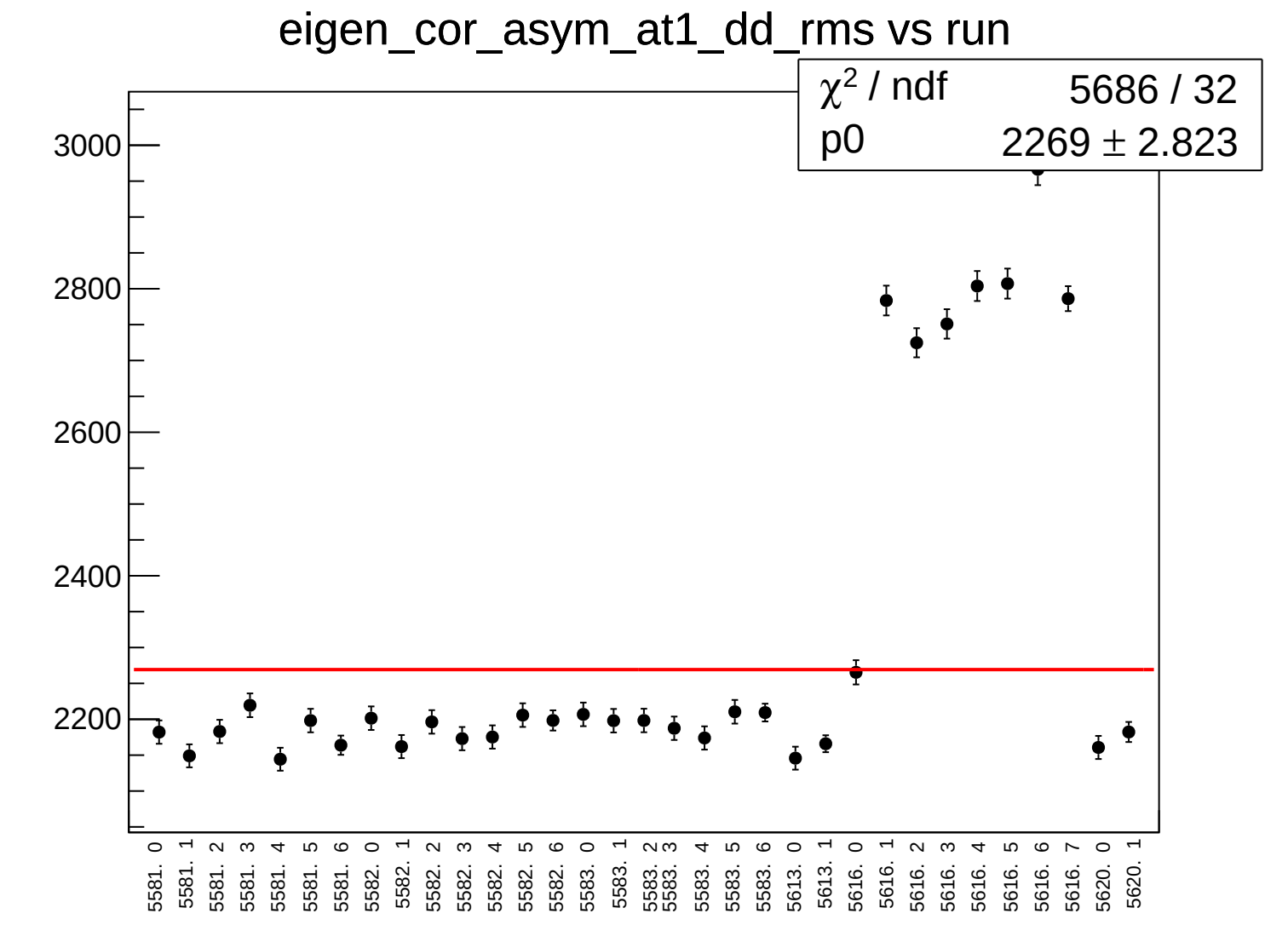

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 32.29 / 25
p0 2234 ± 1913
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 68.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

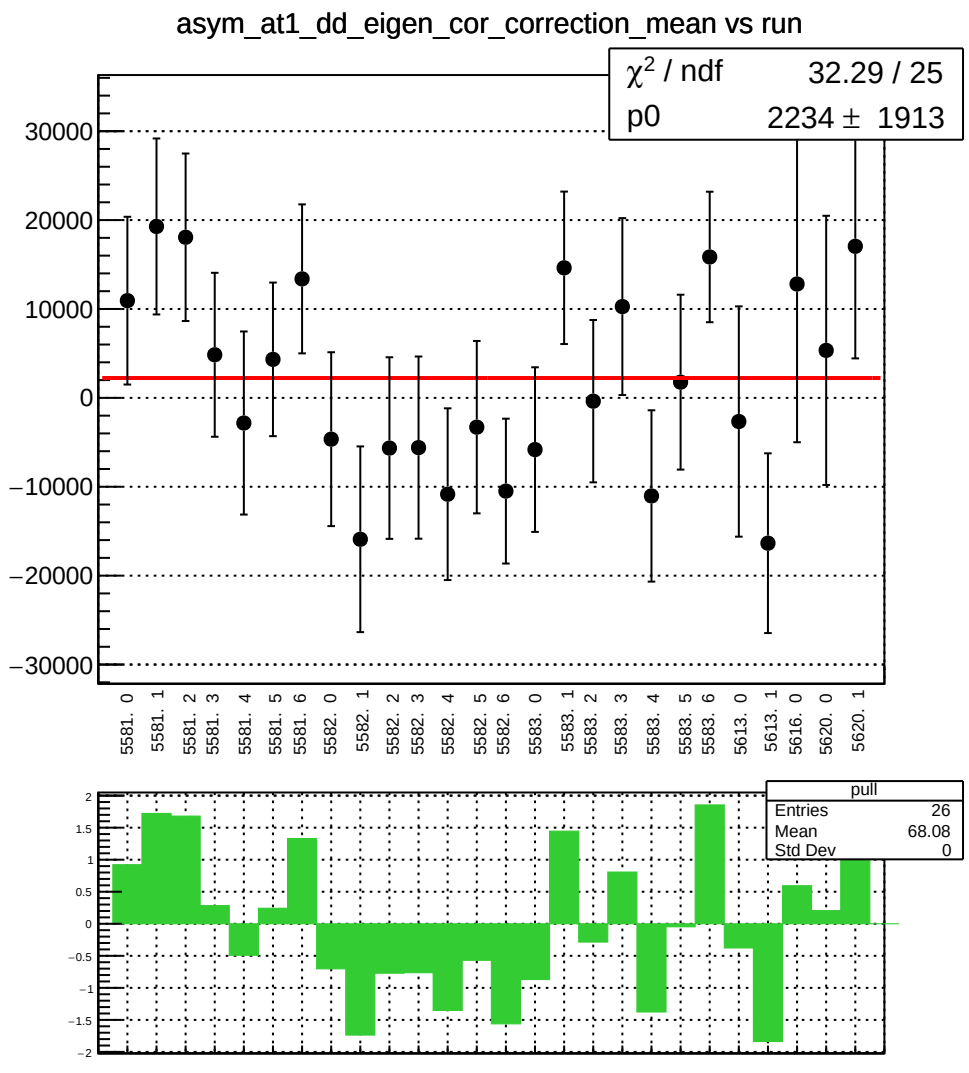

pull1D
Entries 26
Mean −0.01854
Std Dev 1.114
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

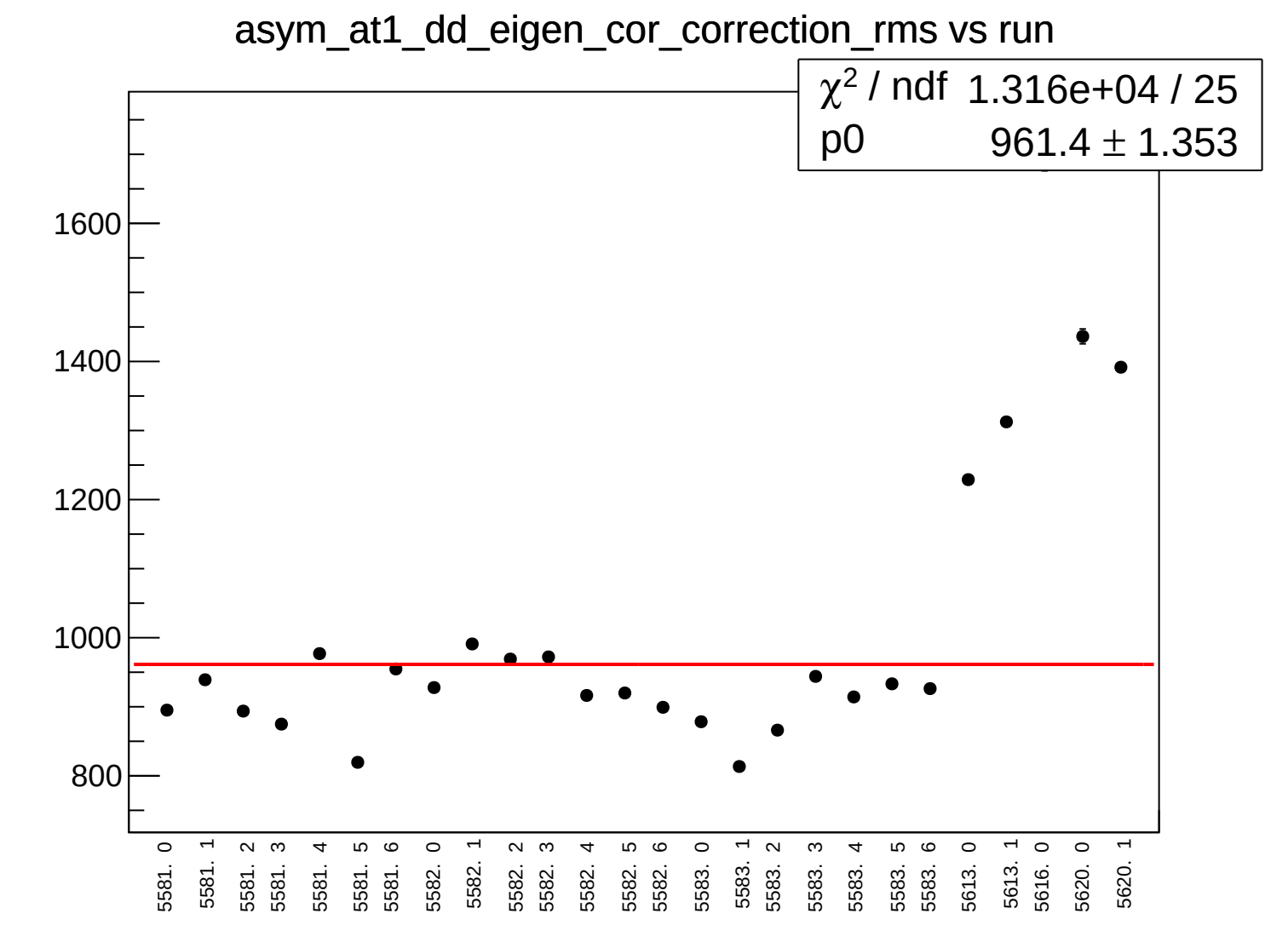

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.316e+04 / 25
p0 961.4 ± 1.353
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

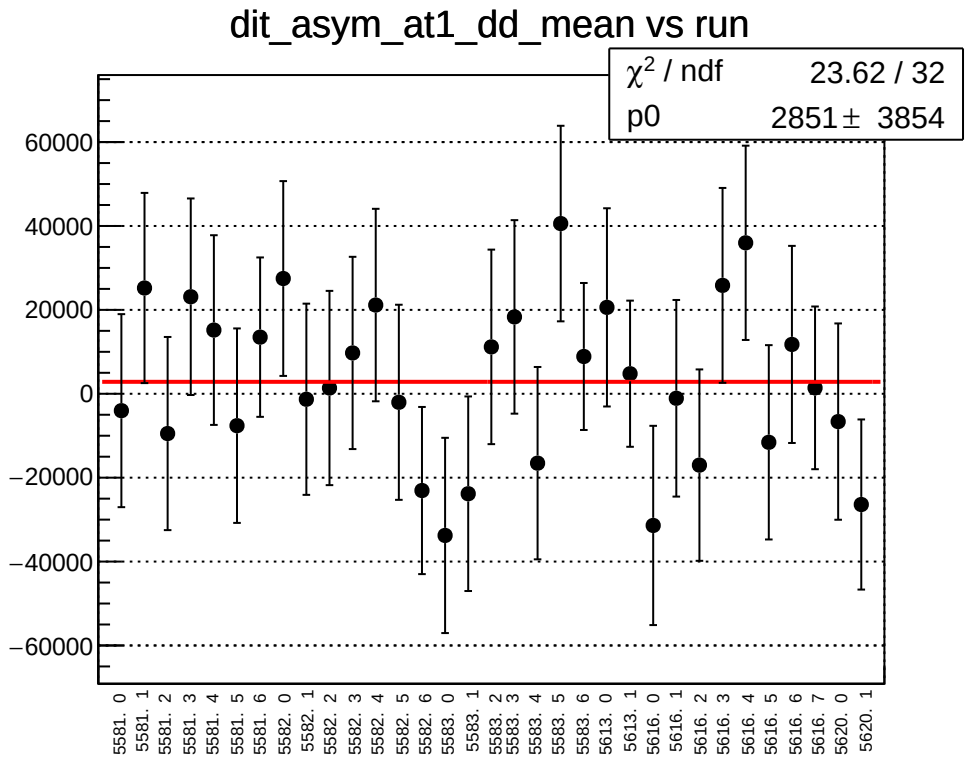

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 24.36 / 32
p0 2934 ± 3992
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −46.42
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

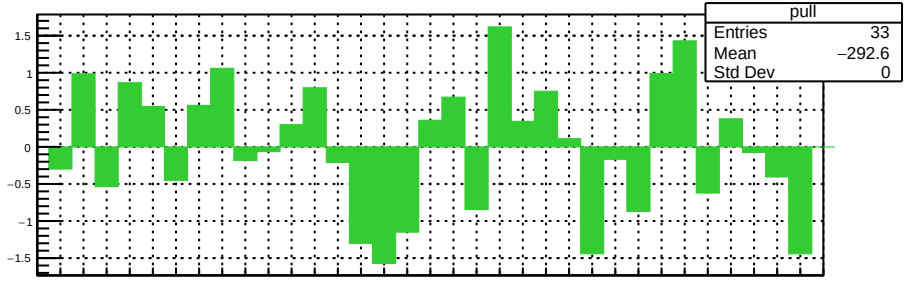

pull1D
Entries 33
Mean 0.01784
Std Dev 0.859
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

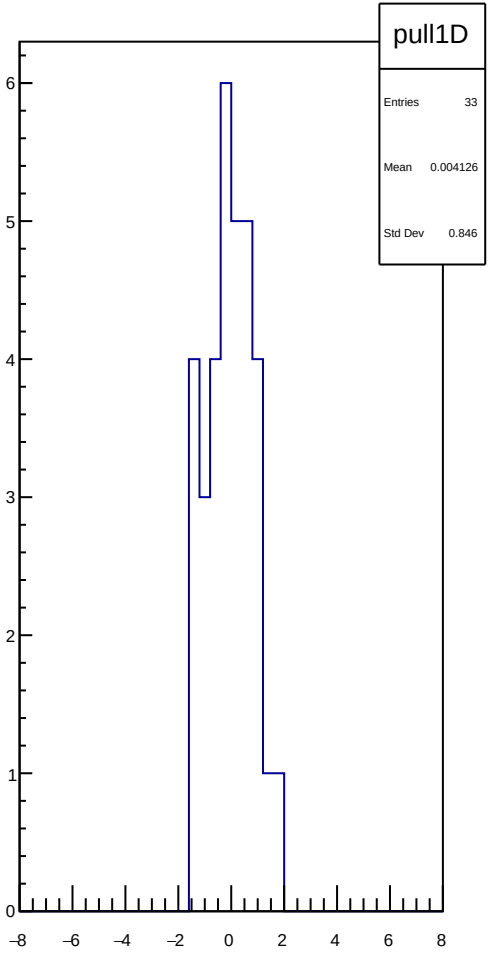

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 5686 / 32
p0 2269 ± 2.823
3000
2800
2600
2400
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

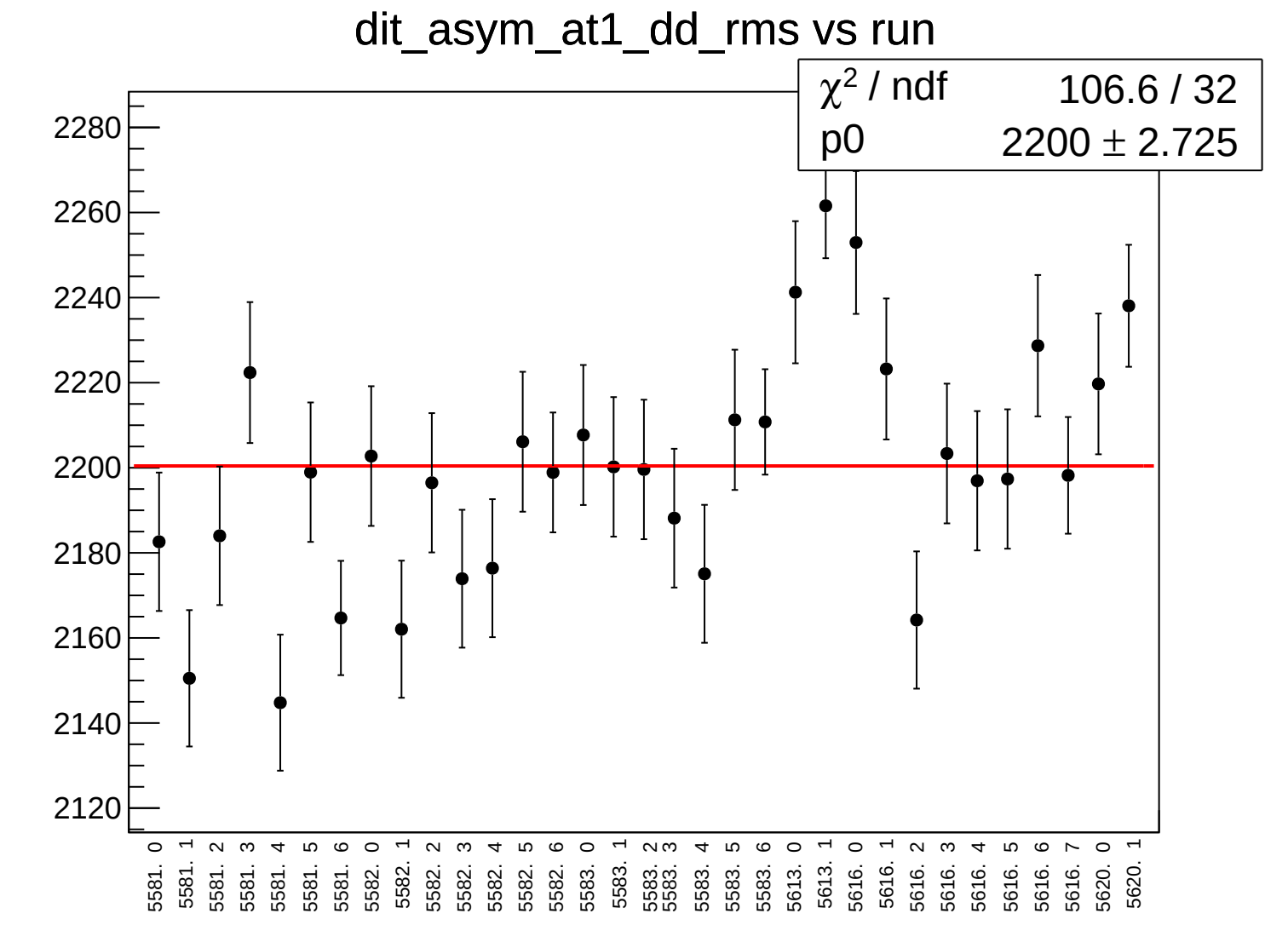

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 32.29 / 25
p0 2234 ± 1913
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 68.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.01854
Std Dev 1.114
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

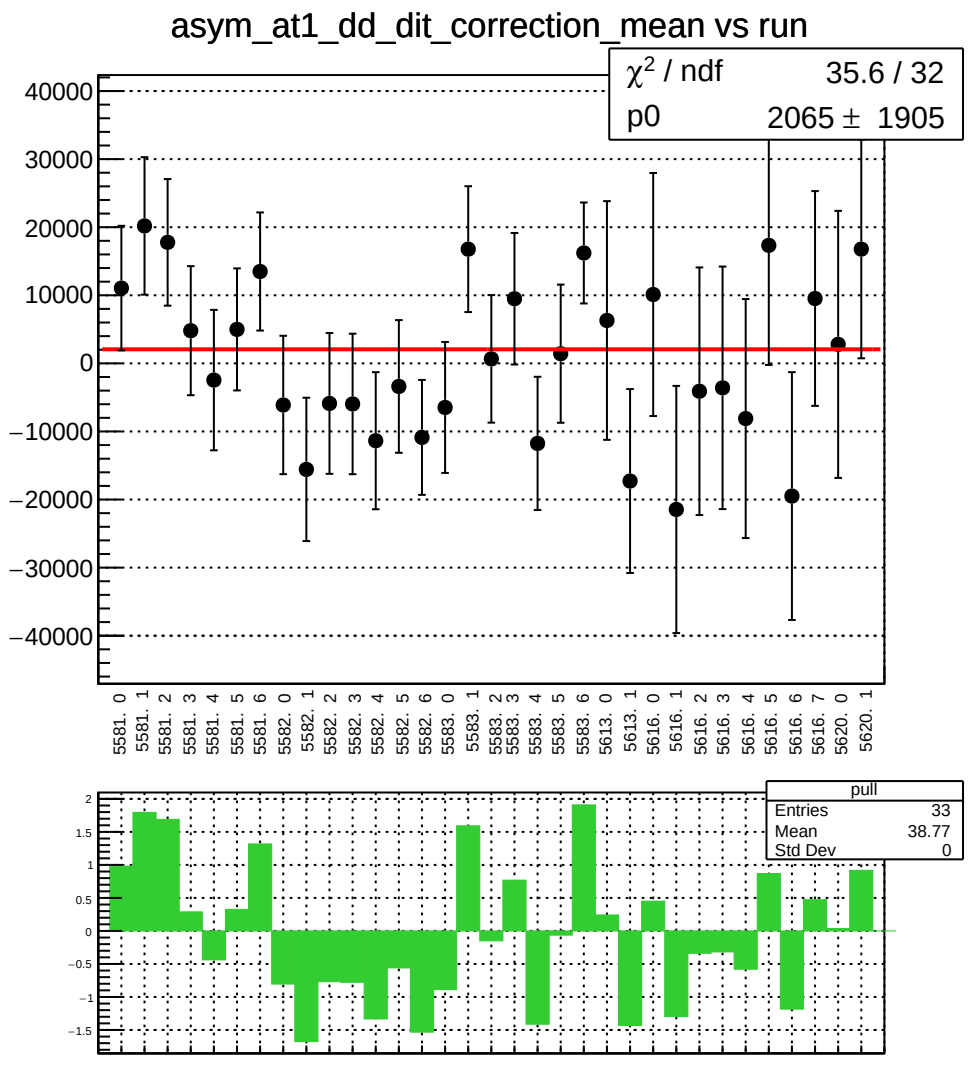

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.316e+04 / 25
p0 961.4 ± 1.353
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

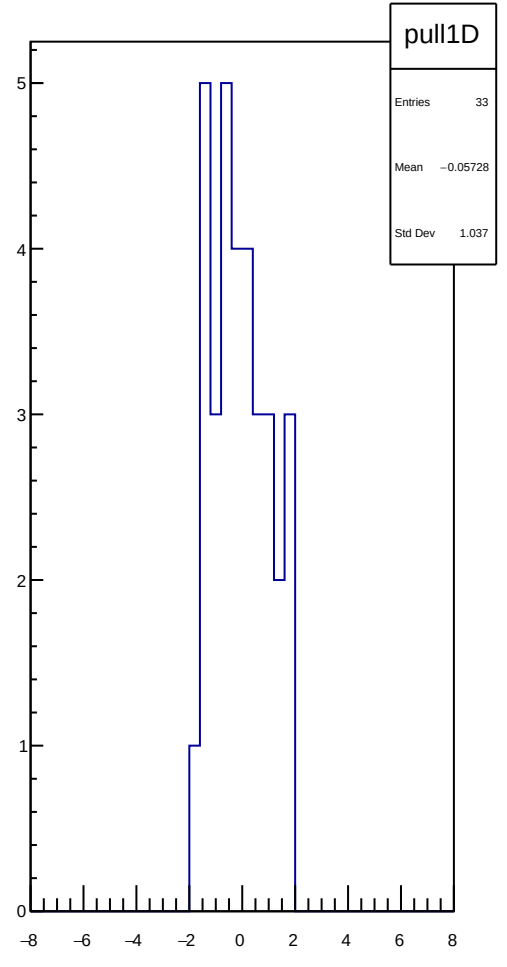

dit_asym_at1_dd_mean vs run
χ² / ndf 23.62 / 32
p0 2851 ± 3854
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

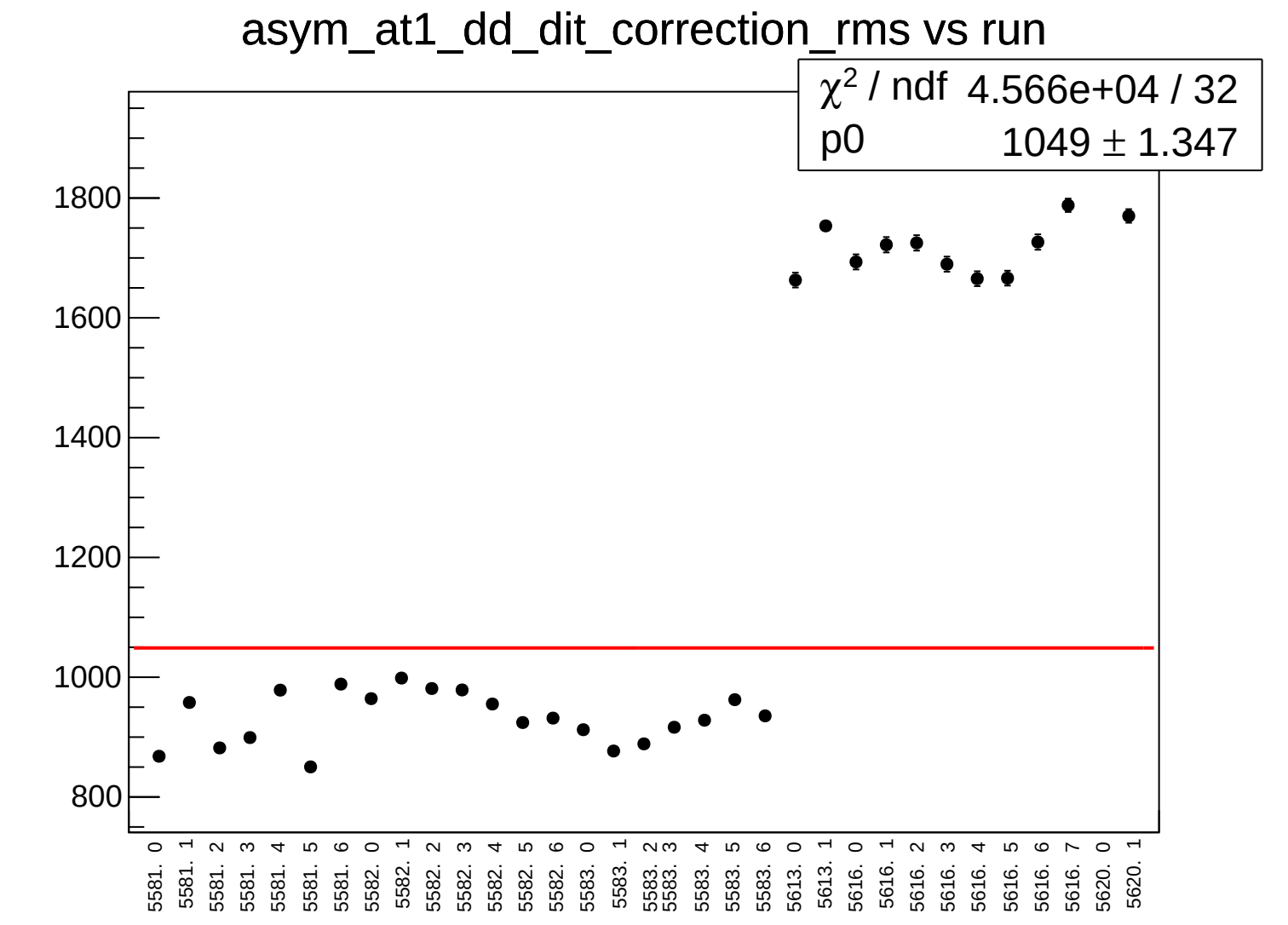

pull
Entries 33
Mean −292.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

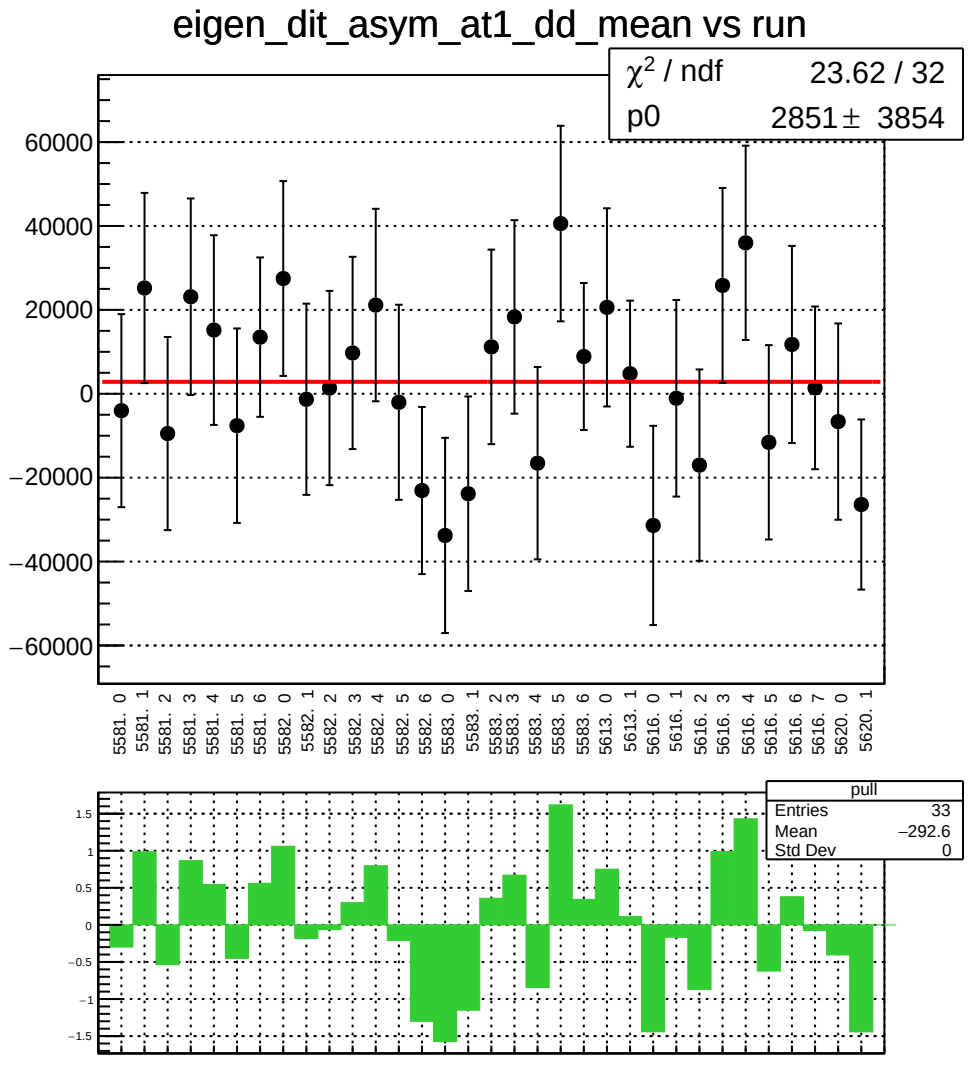

pull1D
Entries 33
Mean 0.004126
Std Dev 0.846
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

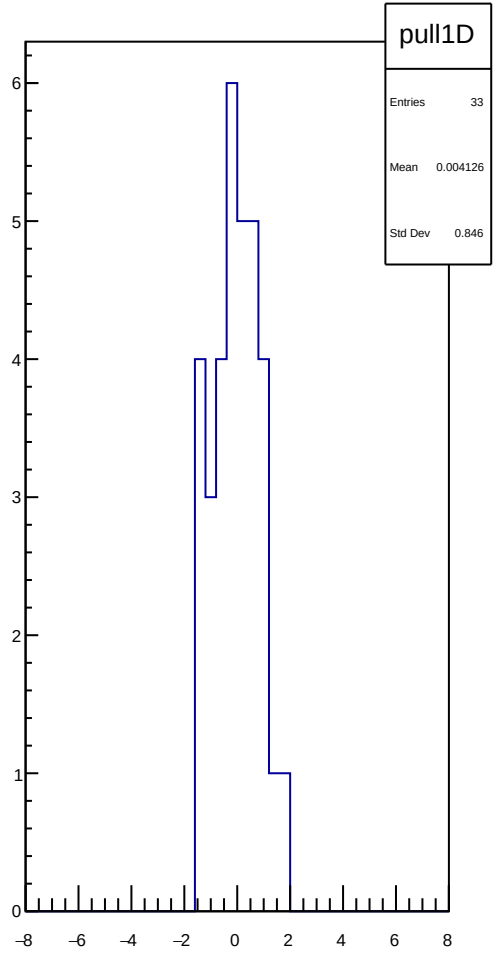

dit_asym_at1_dd_rms vs run
χ² / ndf 106.6 / 32
p0 2200 ± 2.725
2280
2260
2240
2220
2200
2180
2160
2140
2120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

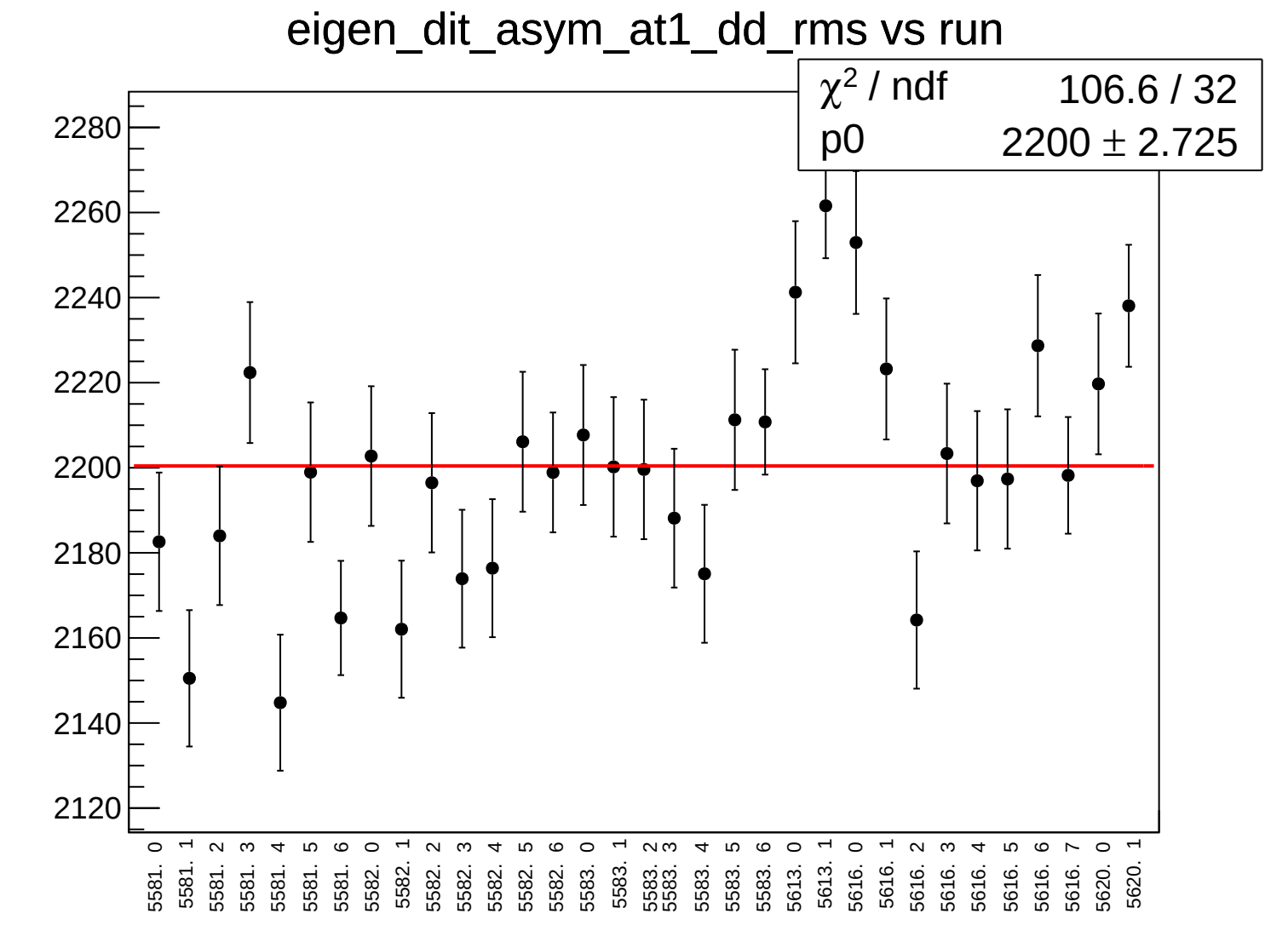

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 35.6 / 32
p0 2065 ± 1905
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

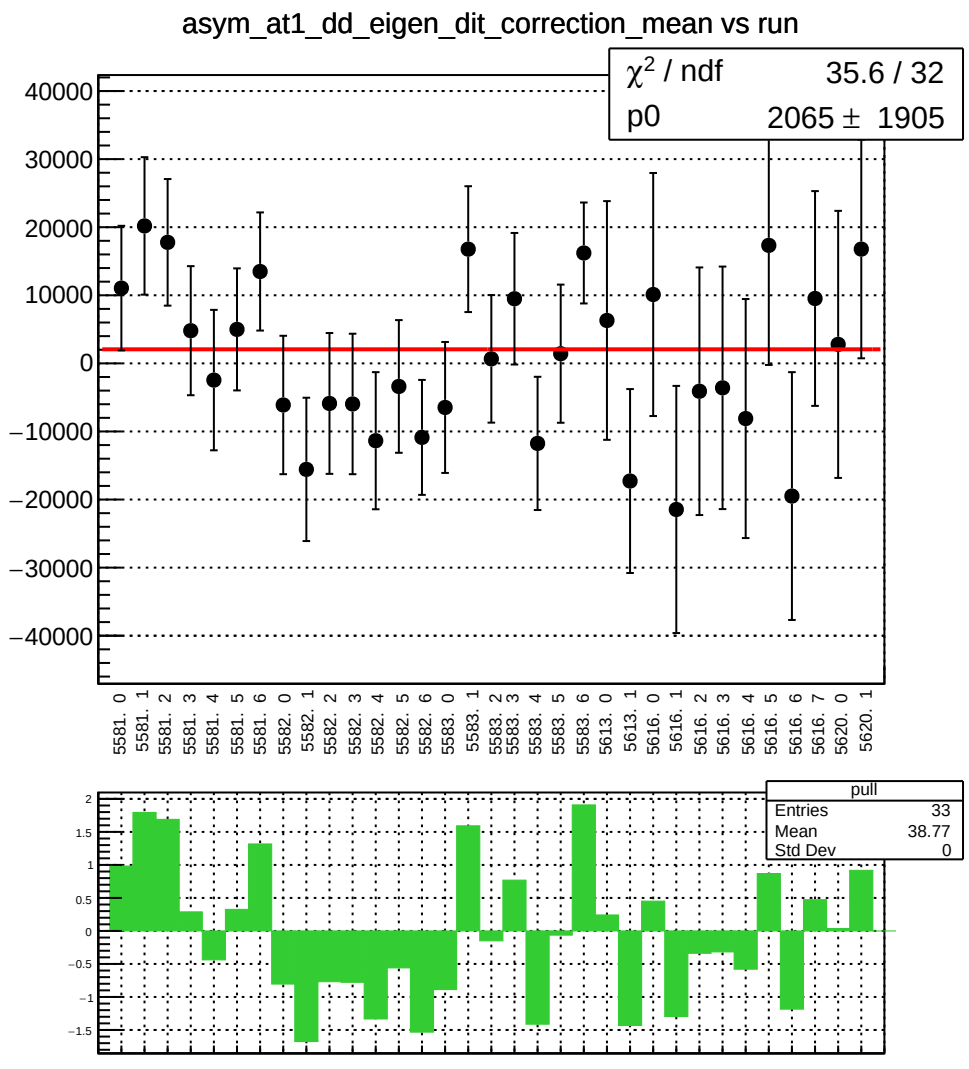

pull1D
Entries 33
Mean −0.05728
Std Dev 1.037
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

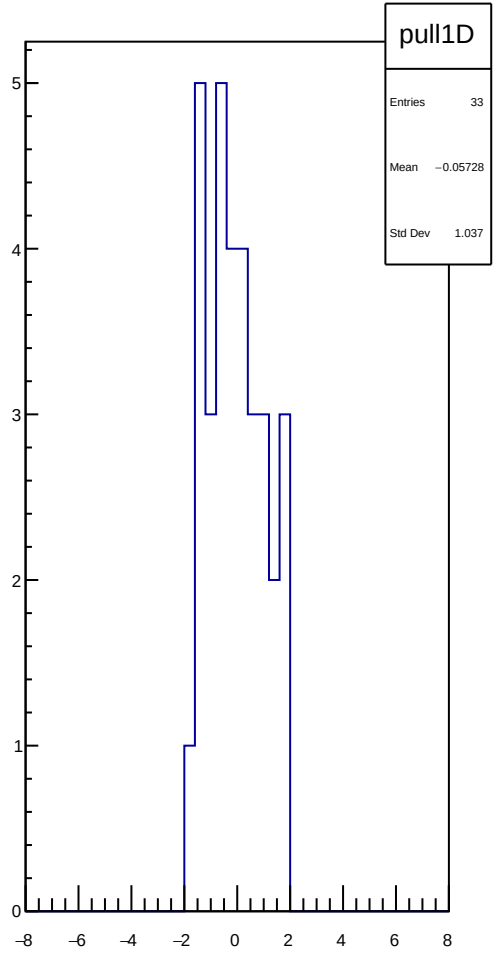

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 4.566e+04 / 32
p0 1049 ± 1.347
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

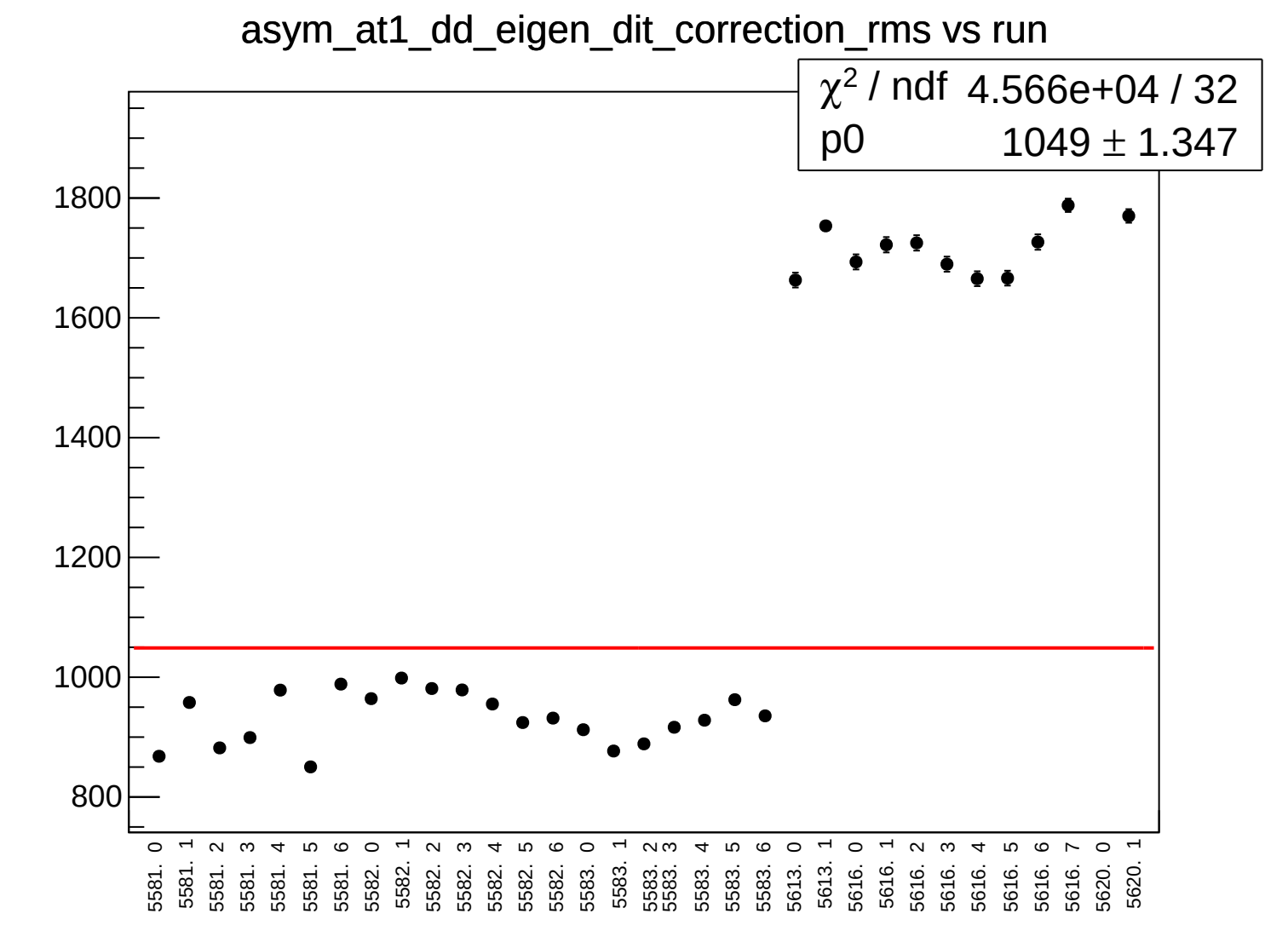

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 23.62 / 32
p0 2851 ± 3854
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −292.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

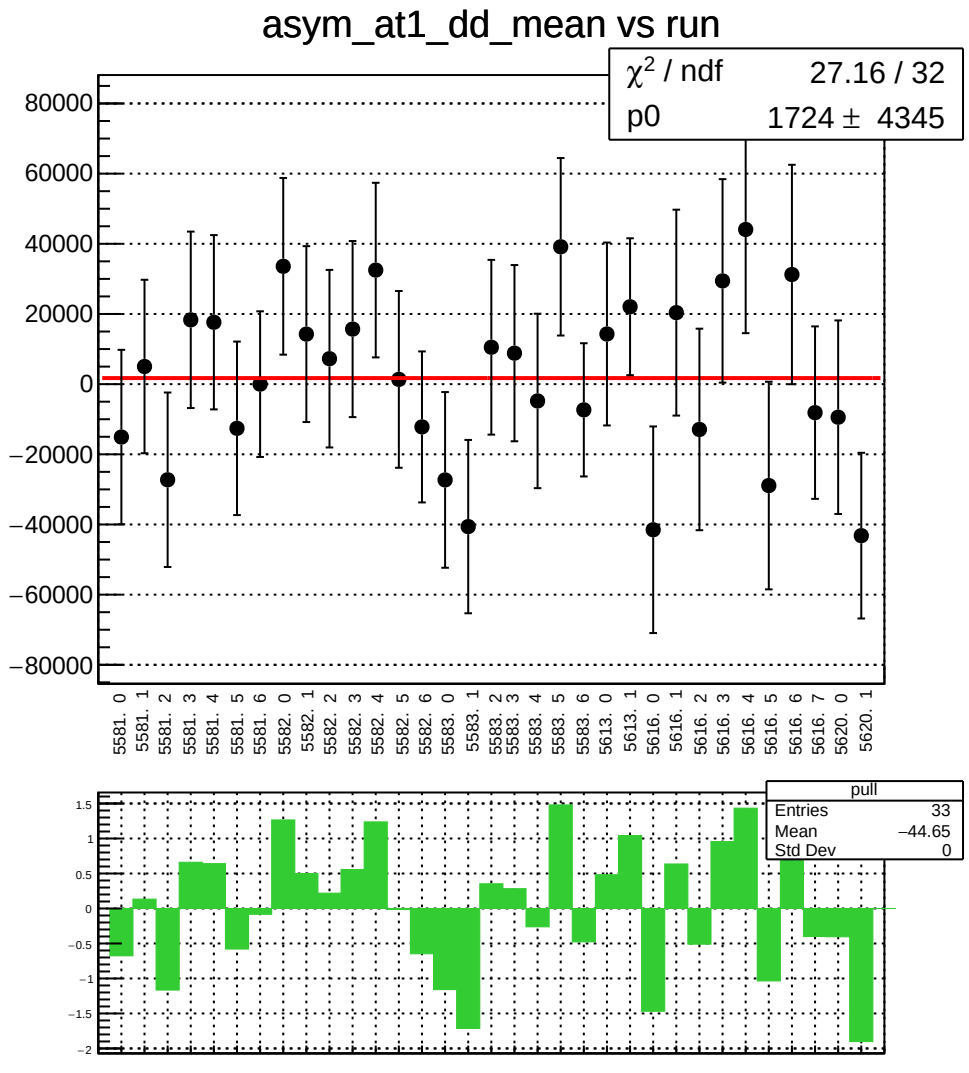

pull1D
Entries 33
Mean 0.004126
Std Dev 0.846
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

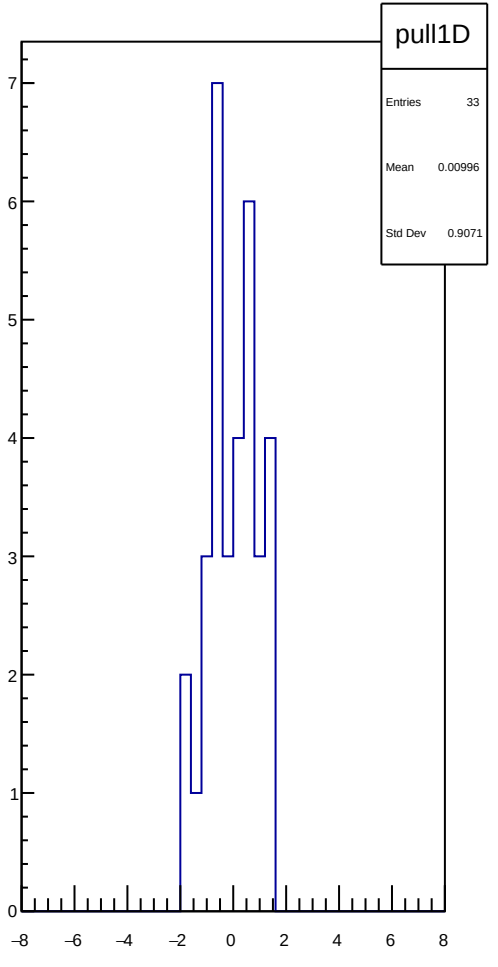

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 106.6 / 32
p0 2200 ± 2.725
2280
2260
2240
2220
2200
2180
2160
2140
2120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

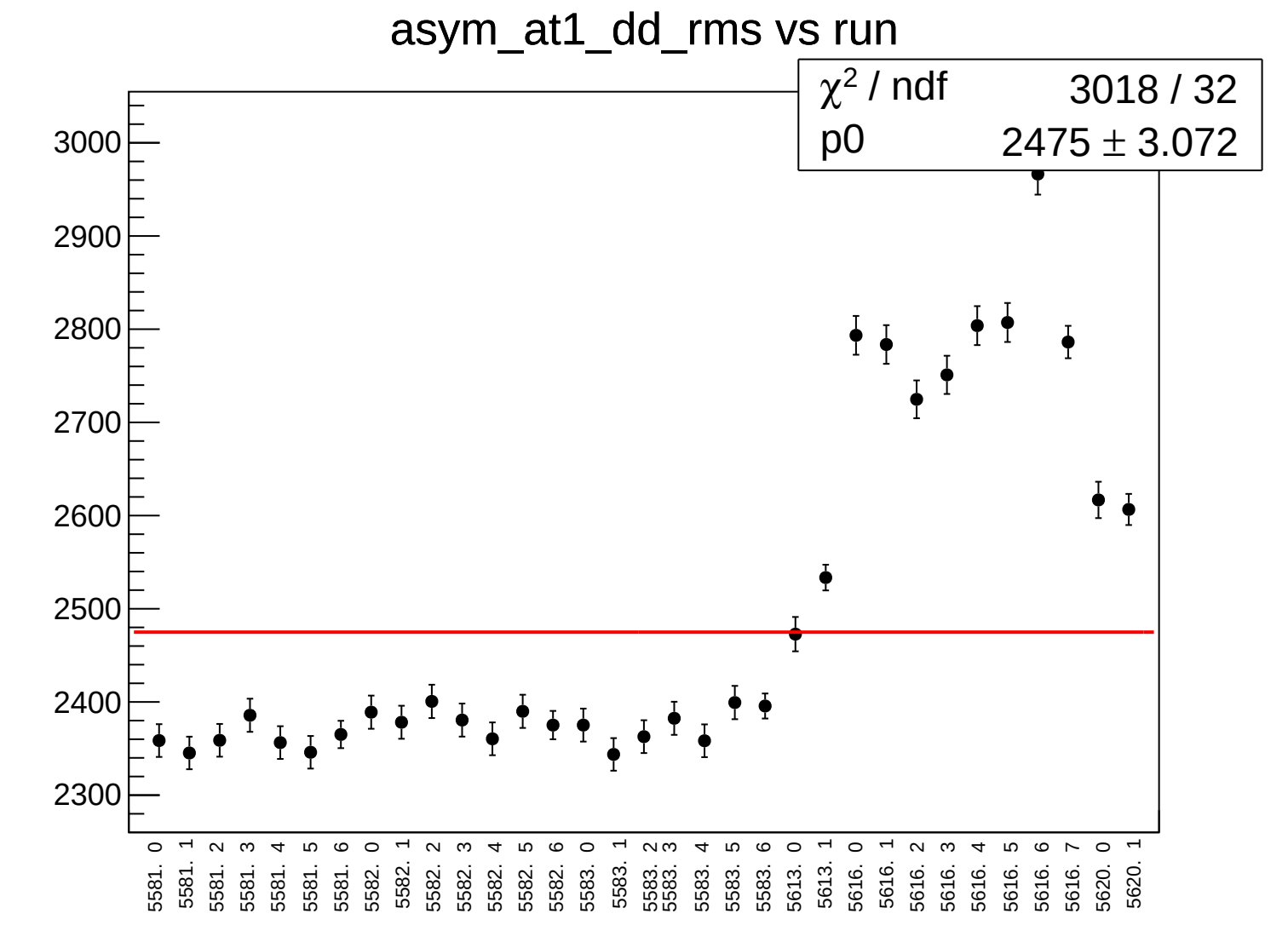

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 35.6 / 32
p0 2065 ± 1905
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

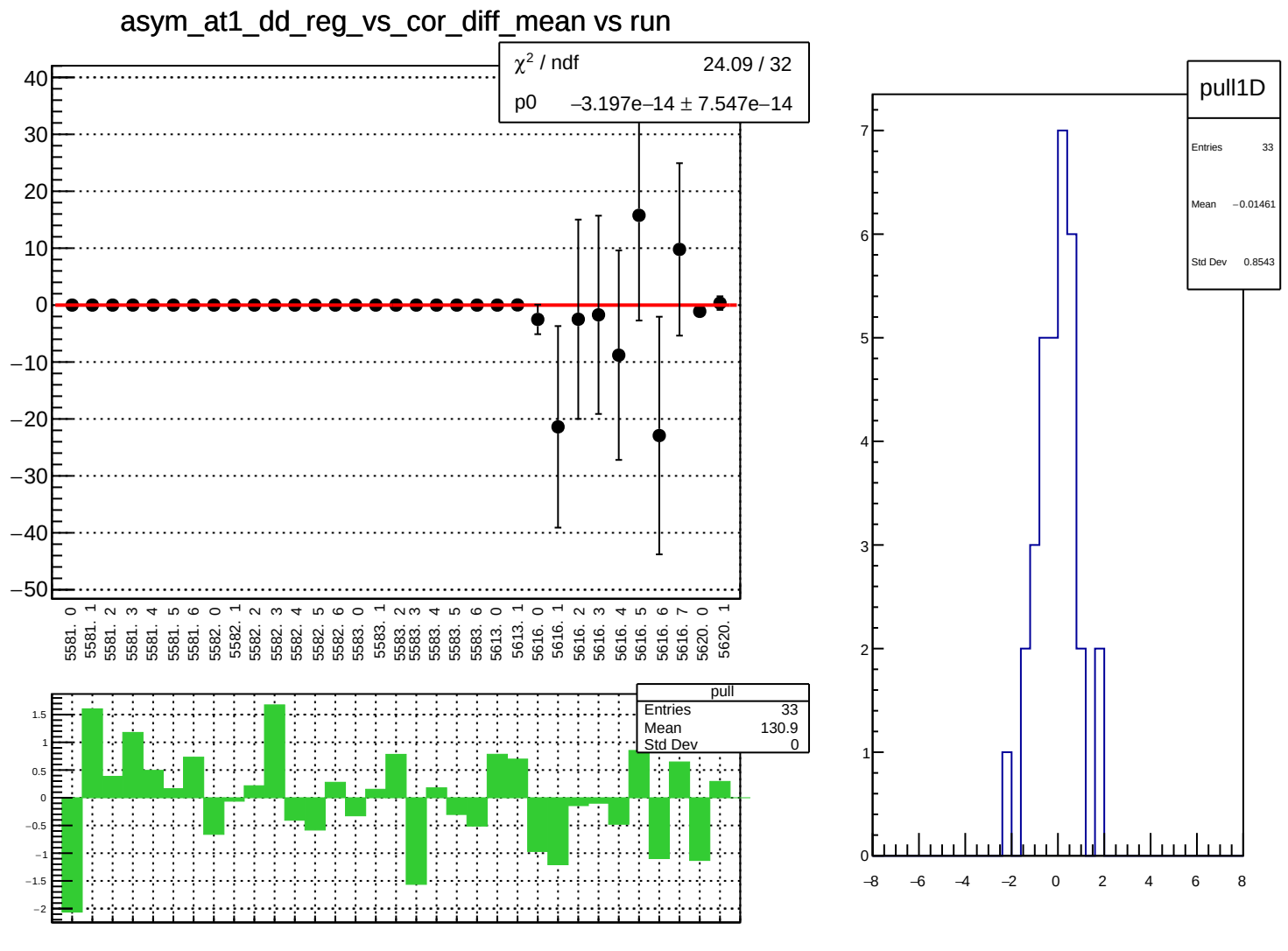

pull1D
Entries 33
Mean −0.05728
Std Dev 1.037
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

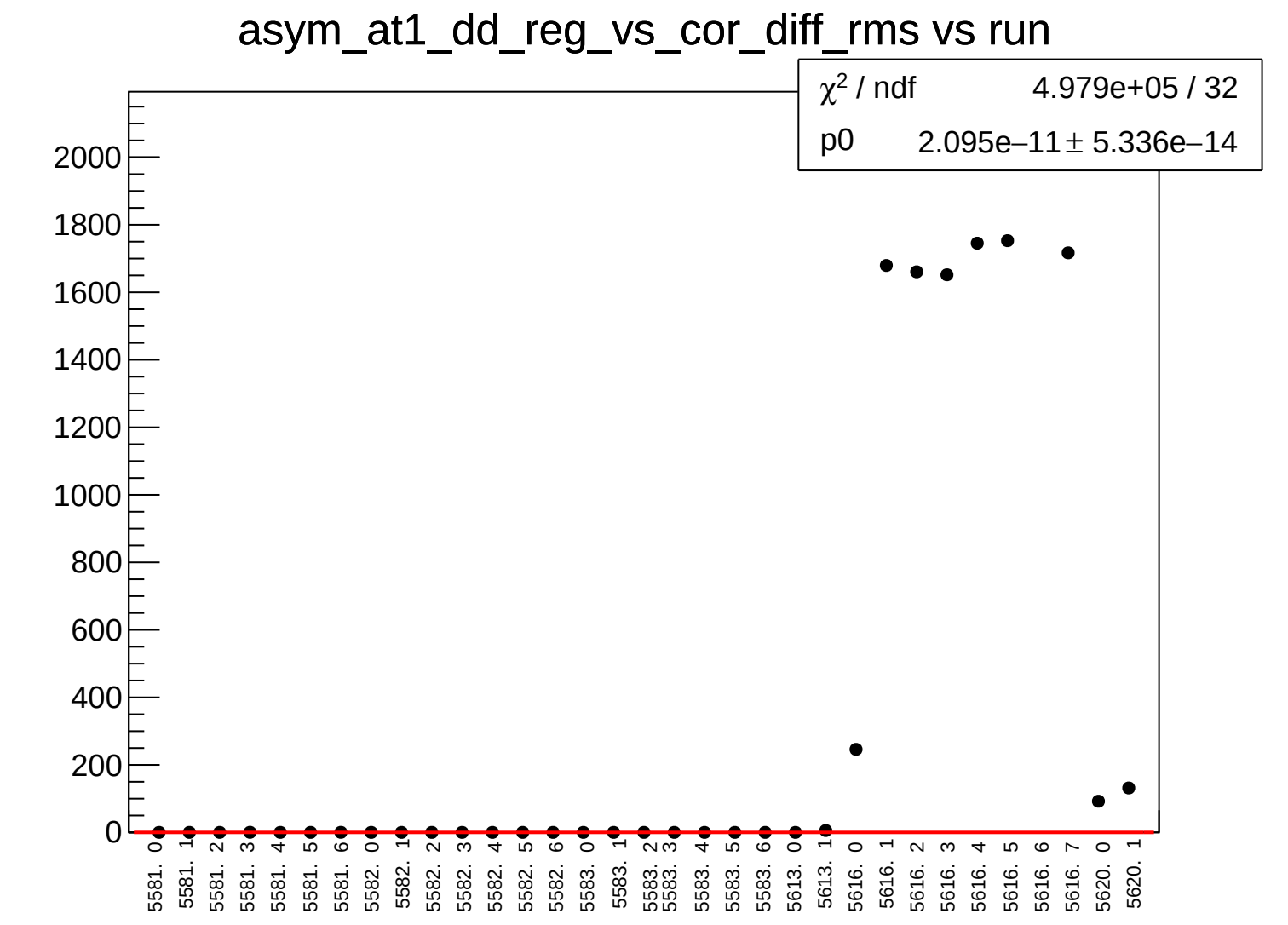

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.566e+04 / 32
p0 1049 ± 1.347
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

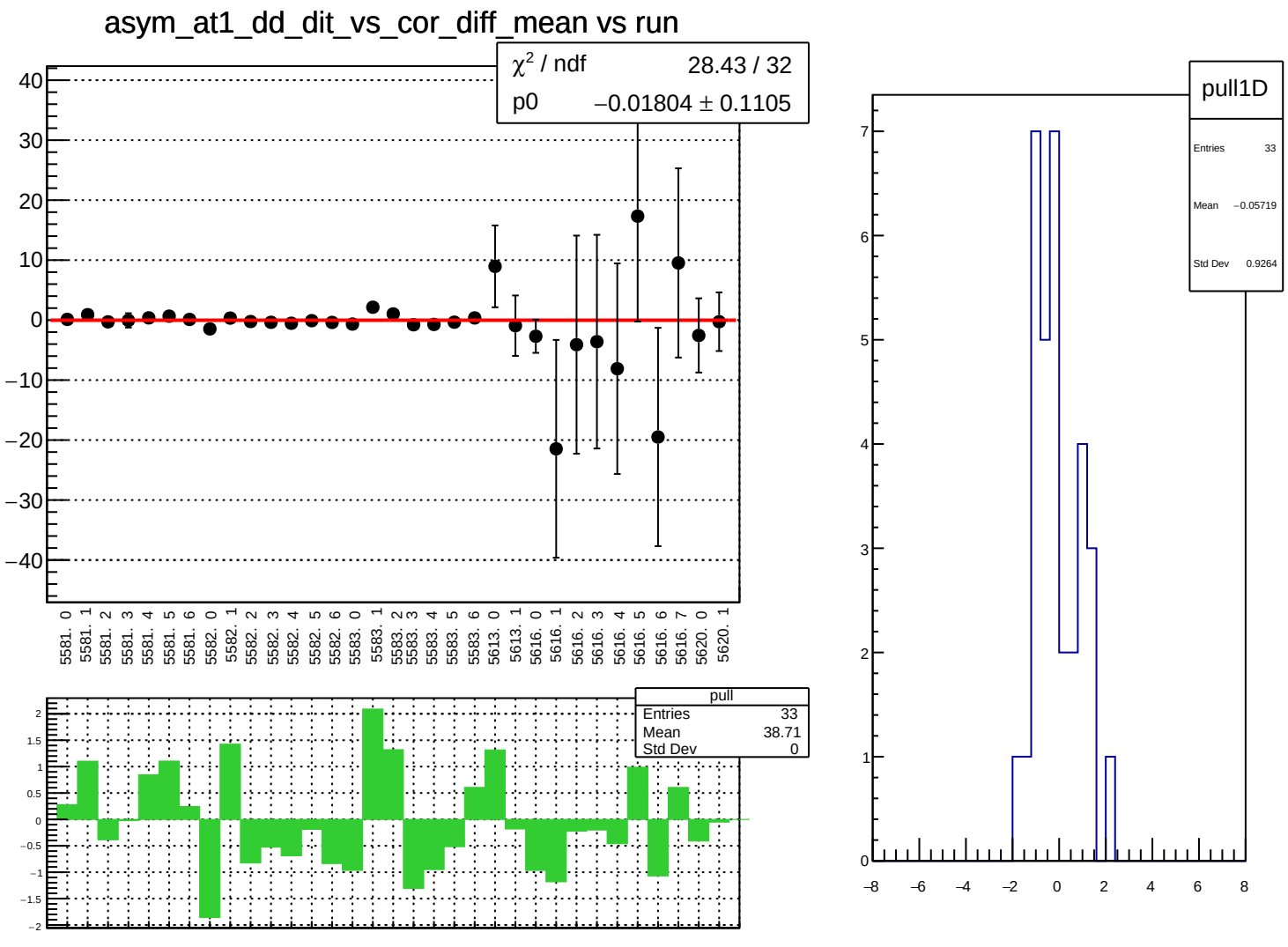

asym_at1_dd_mean vs run
χ² / ndf 27.16 / 32
p0 1724 ± 4345
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −44.65
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

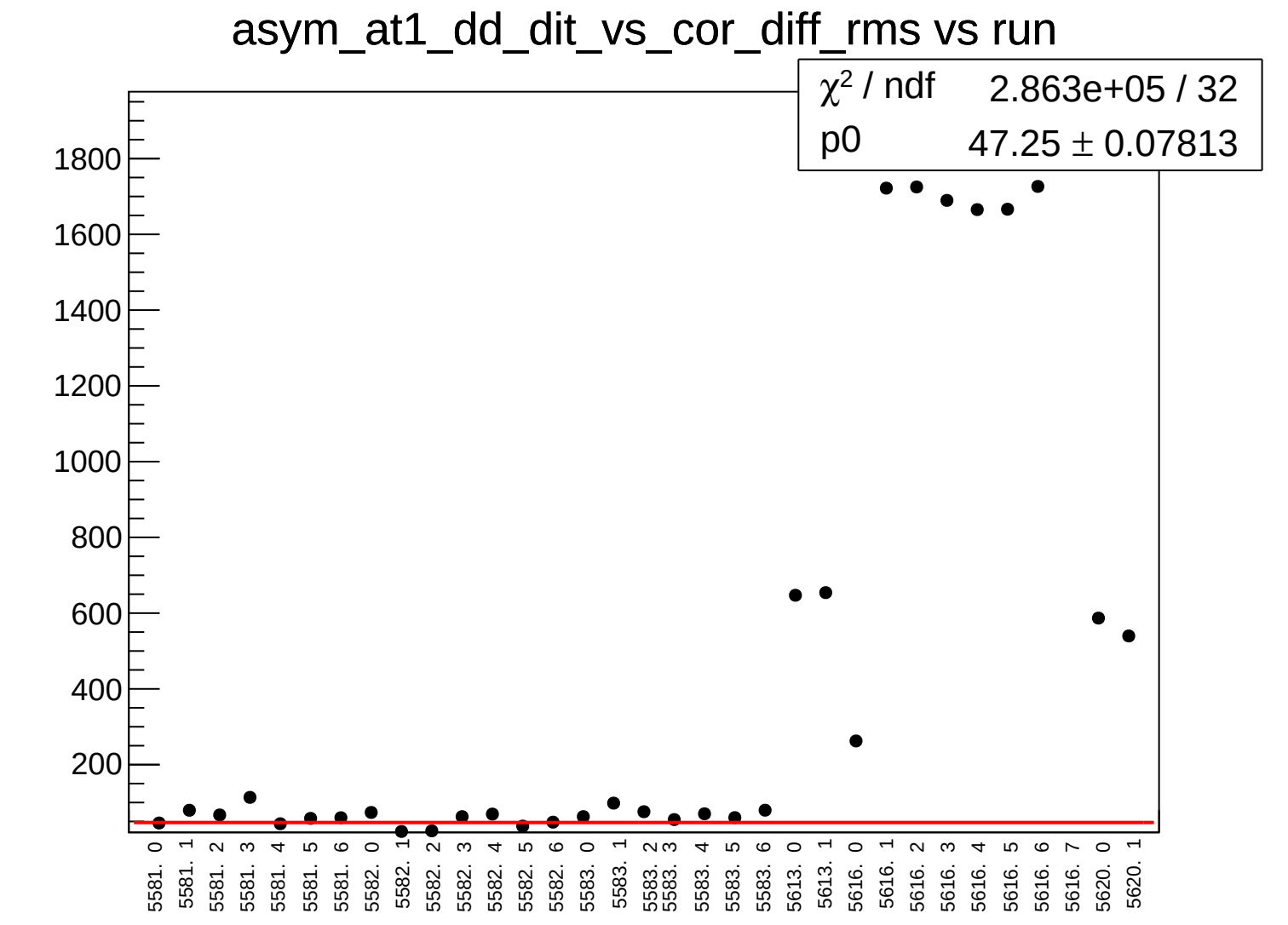

pull1D
Entries 33
Mean 0.00996
Std Dev 0.9071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

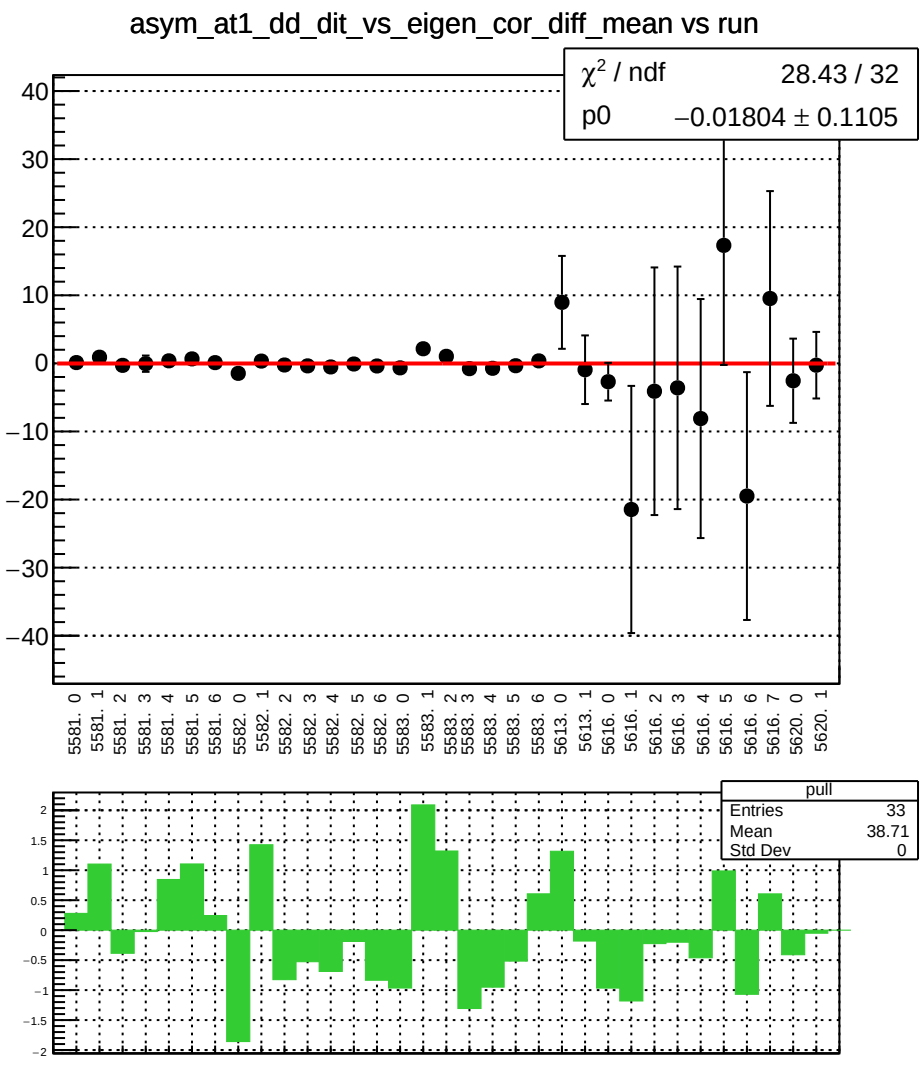

asym_at1_dd_rms vs run
χ² / ndf 3018 / 32
p0 2475 ± 3.072
3000
2900
2800
2700
2600
2500
2400
2300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

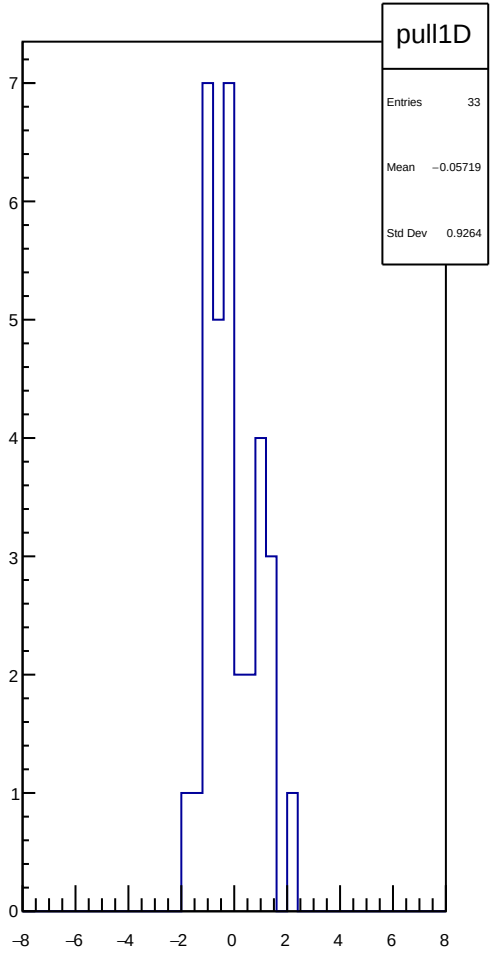

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.09 / 32
p0 −3.197e−14 ± 7.547e−14
pull
Entries 33
Mean 130.9
Std Dev 0
pull1D
Entries 33
Mean −0.01461
Std Dev 0.8543

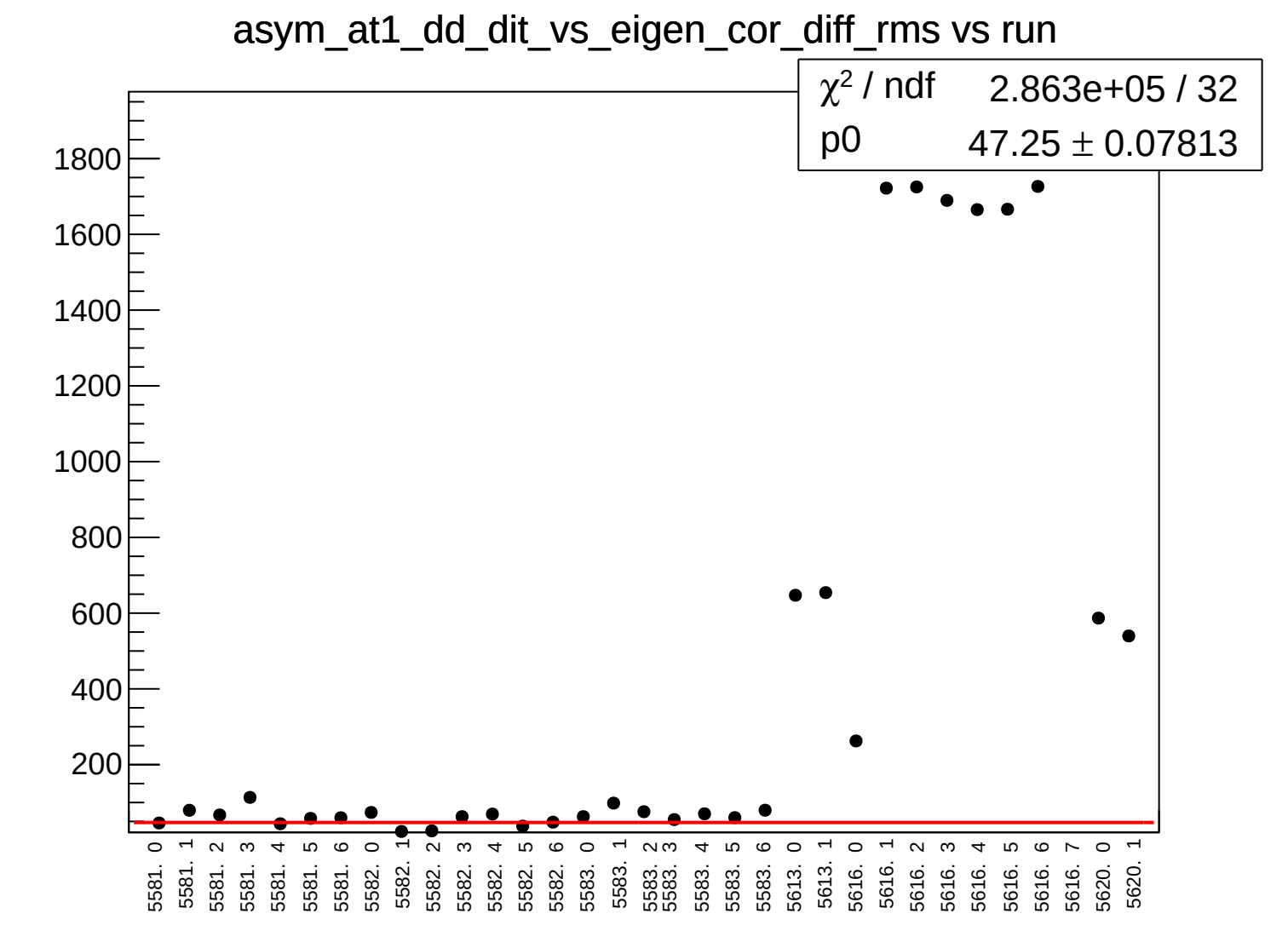

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.979e+05 / 32
p0 2.095e−11 ± 5.336e−14
2000
1800
1600
1400
1200
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

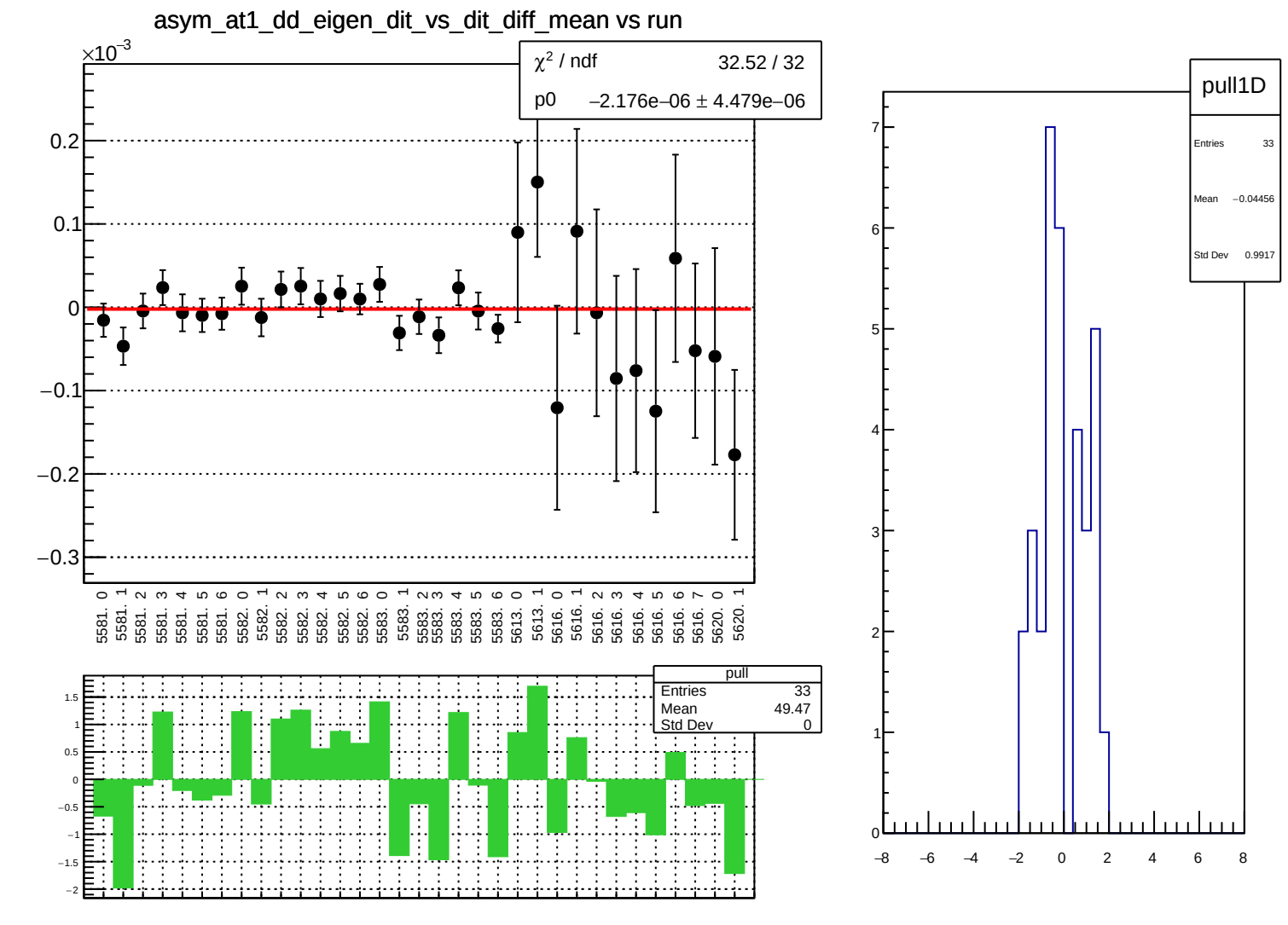

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 28.43 / 32
p0 −0.01804 ± 0.1105
pull
Entries 33
Mean 38.71
Std Dev 0
pull1D
Entries 33
Mean −0.05719
Std Dev 0.9264

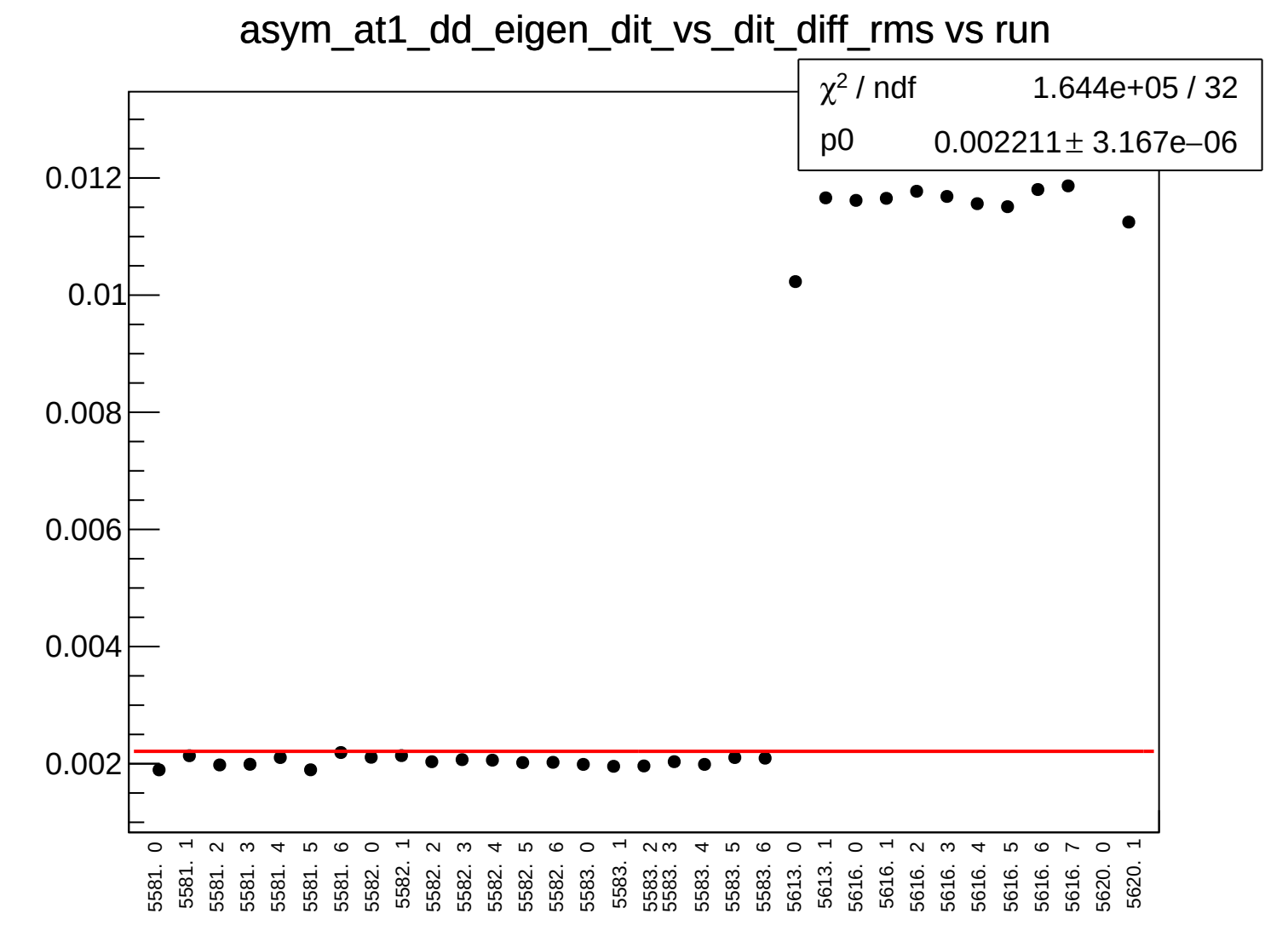

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.863e+05 / 32
p0 47.25 ± 0.07813
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

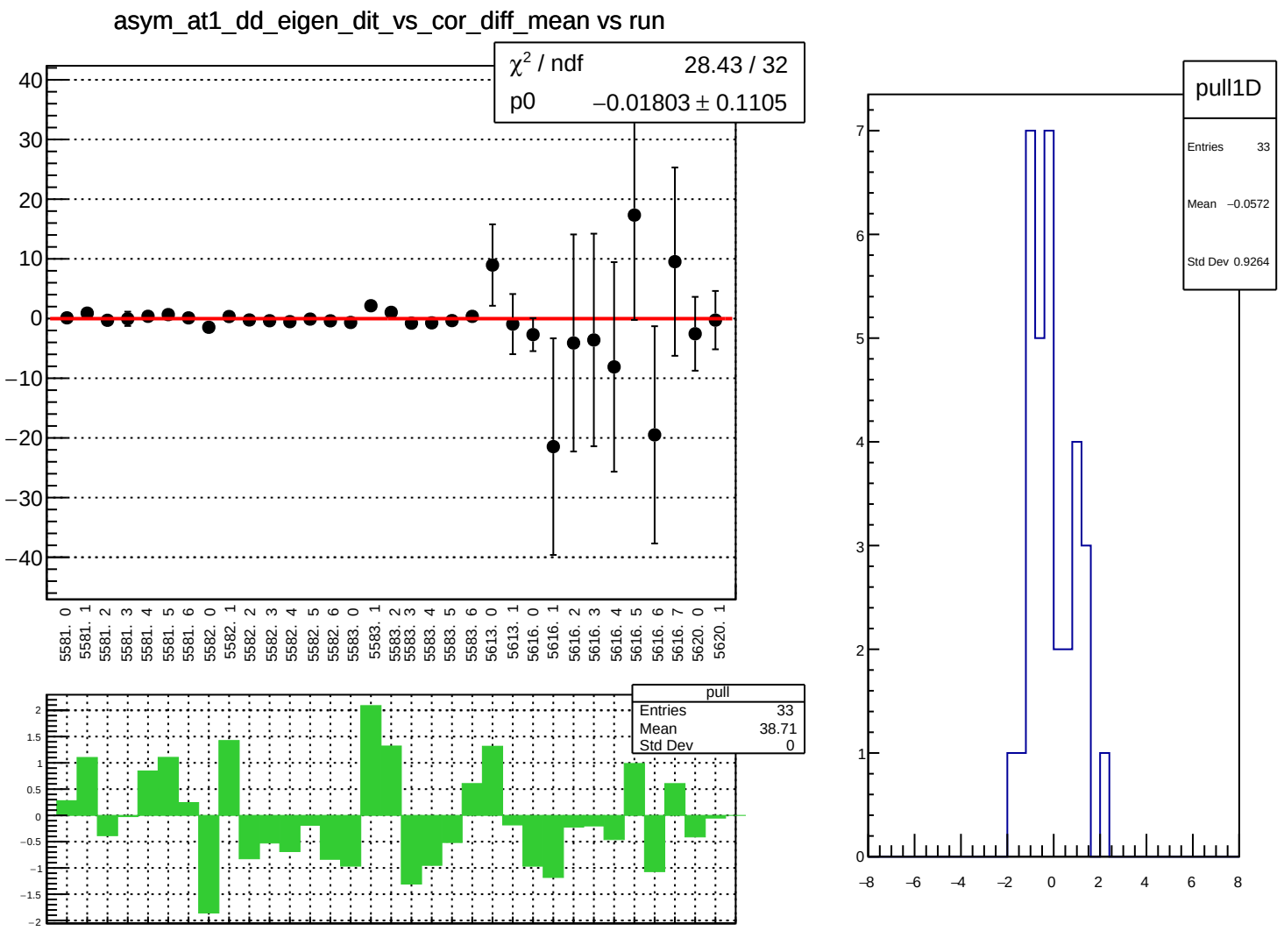

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.43 / 32
p0 −0.01804 ± 0.1105
pull
Entries 33
Mean 38.71
Std Dev 0

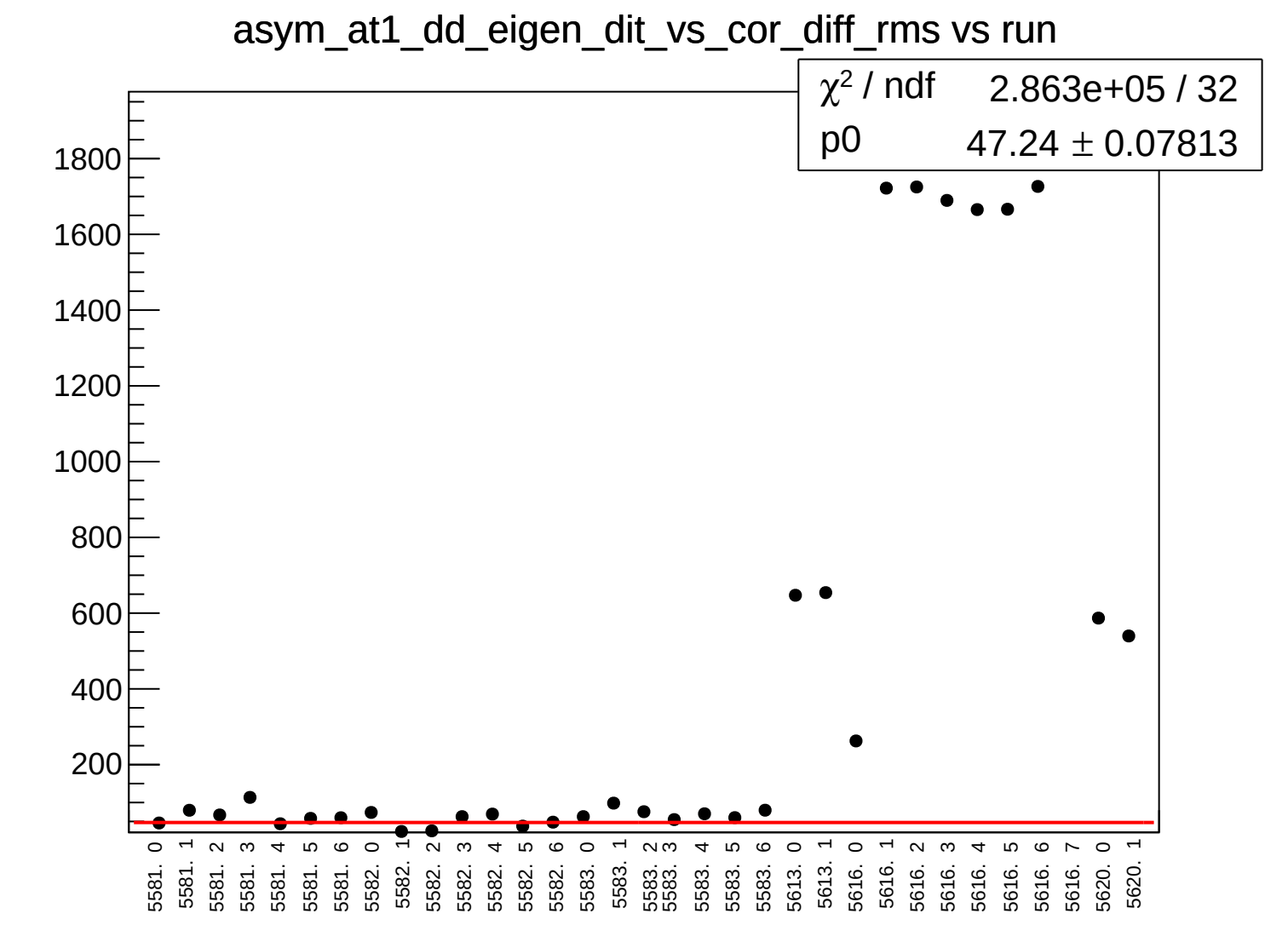

pull1D
Entries 33
Mean −0.05719
Std Dev 0.9264

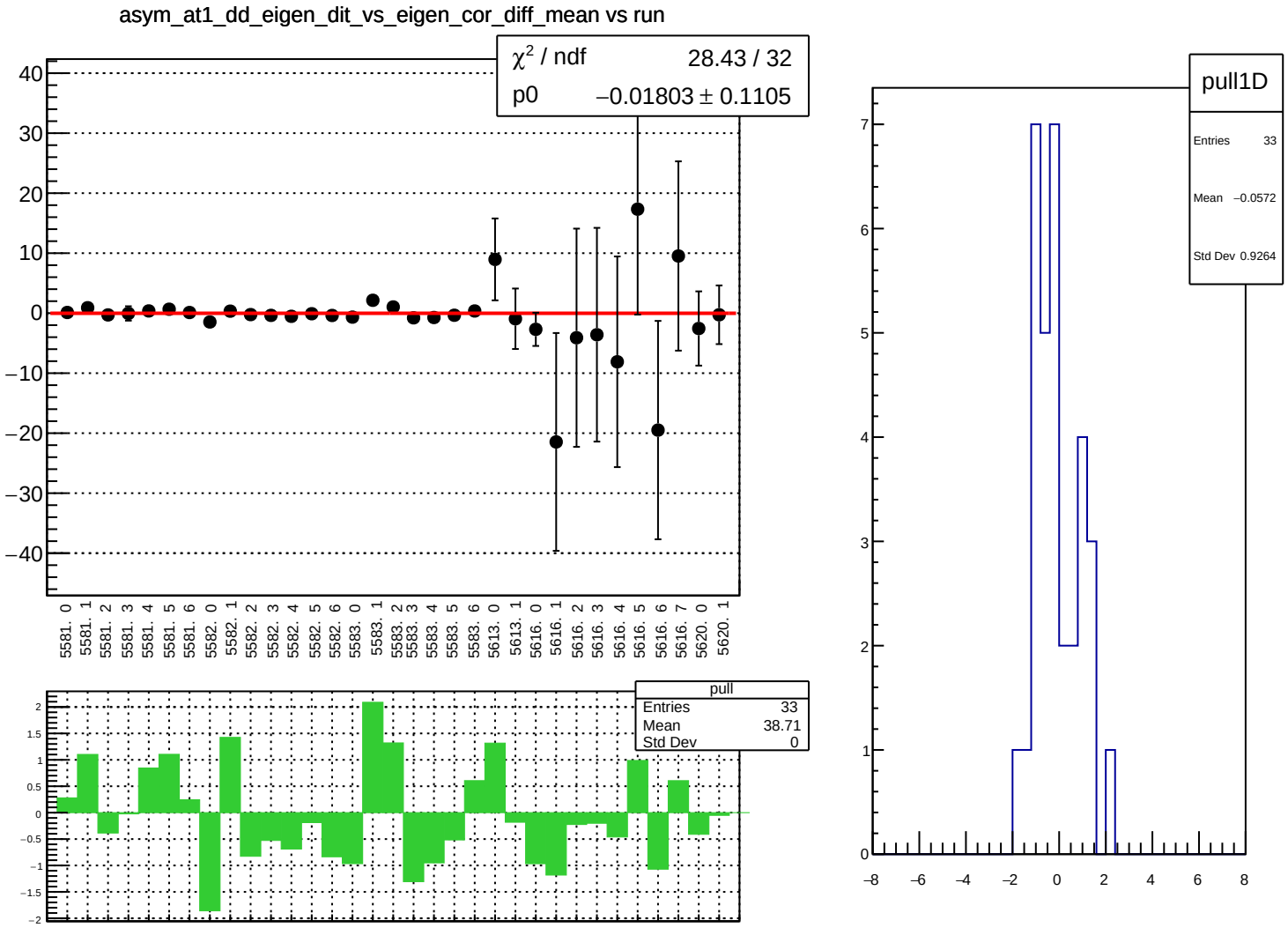

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.863e+05 / 32
p0 47.25 ± 0.07813
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

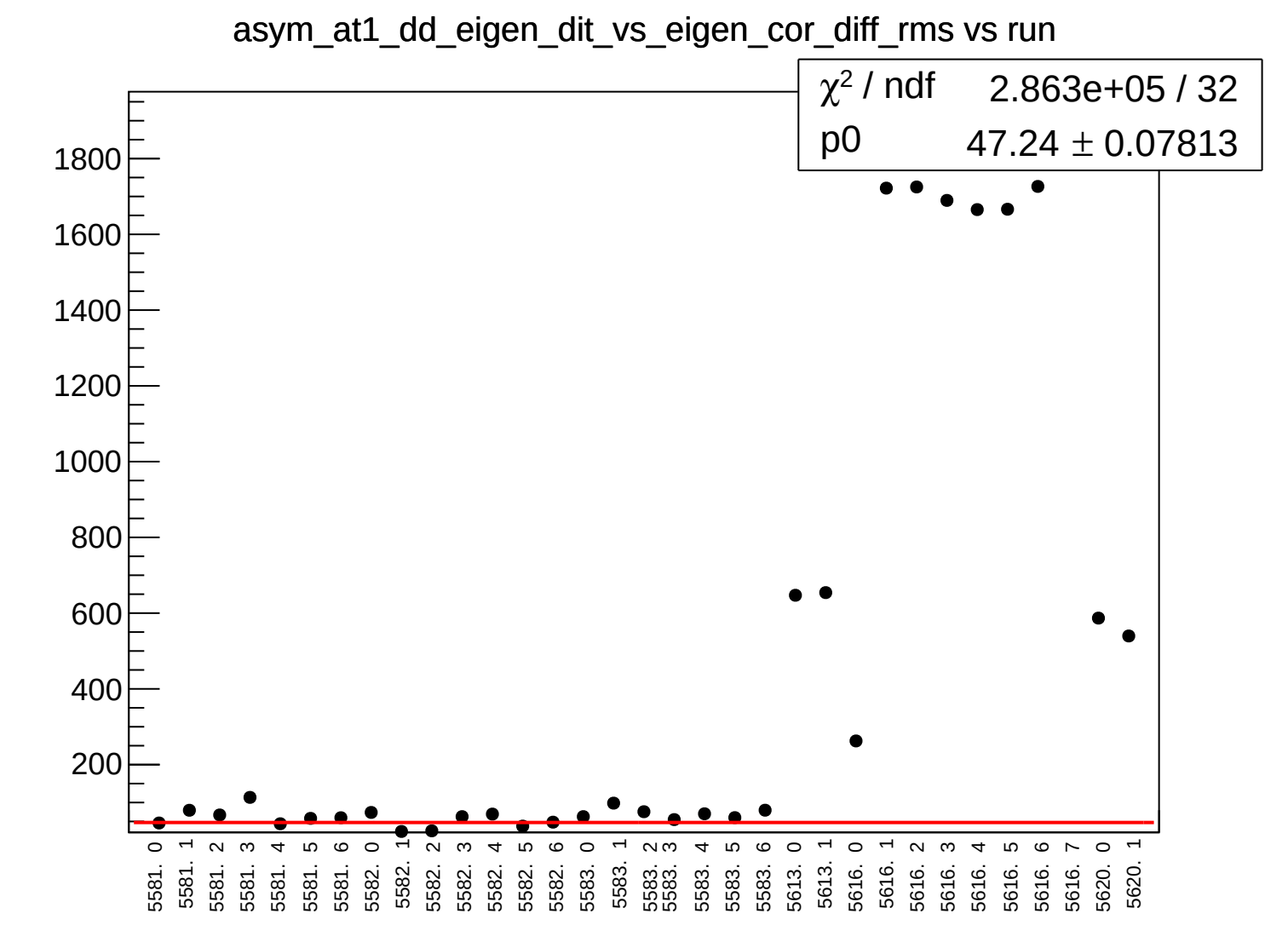

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.52 / 32
p0 −2.176e−06 ± 4.479e−06
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.47
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.04456
Std Dev 0.9917
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

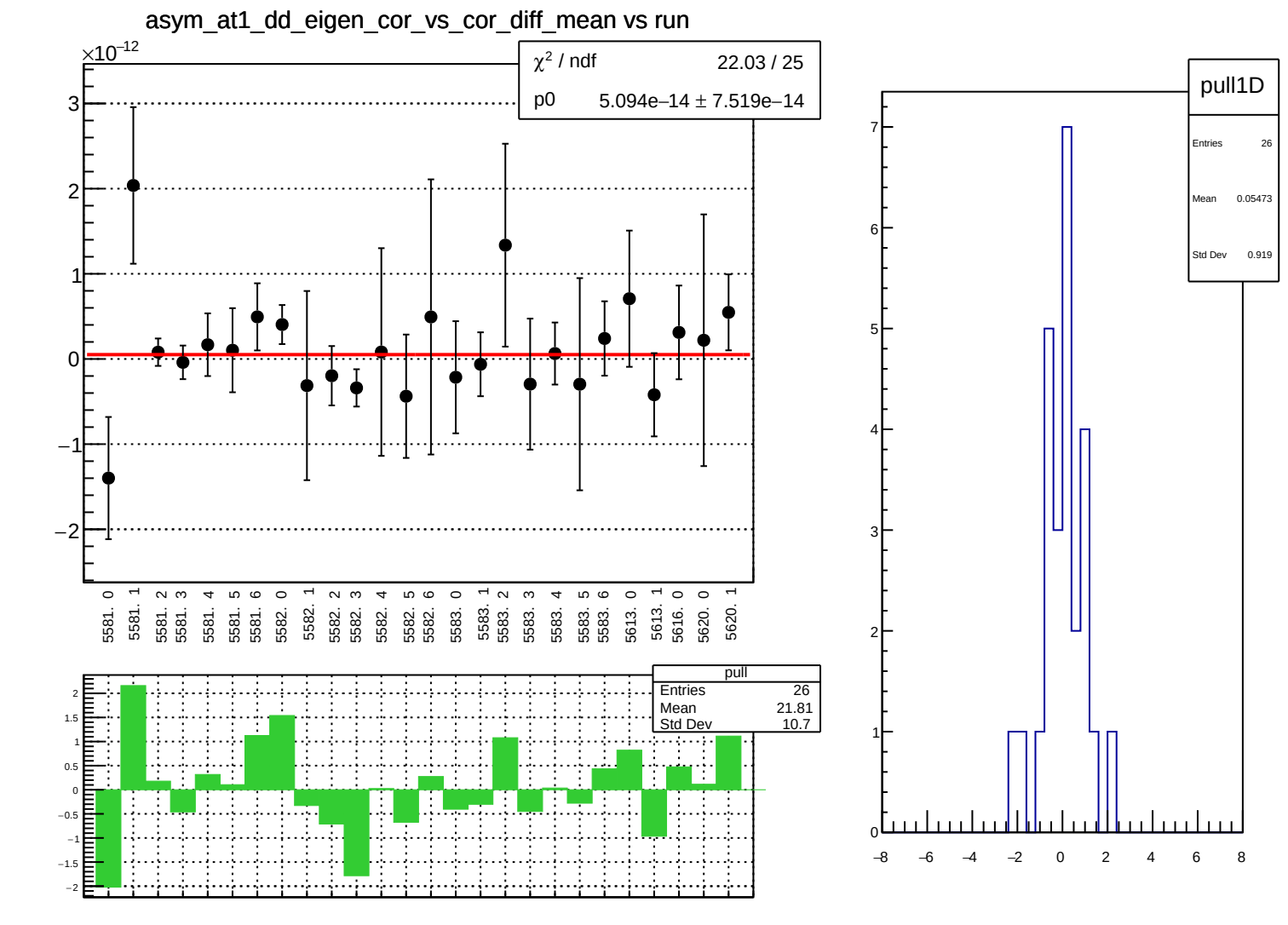

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.644e+05 / 32
p0 0.002211 ± 3.167e−06
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

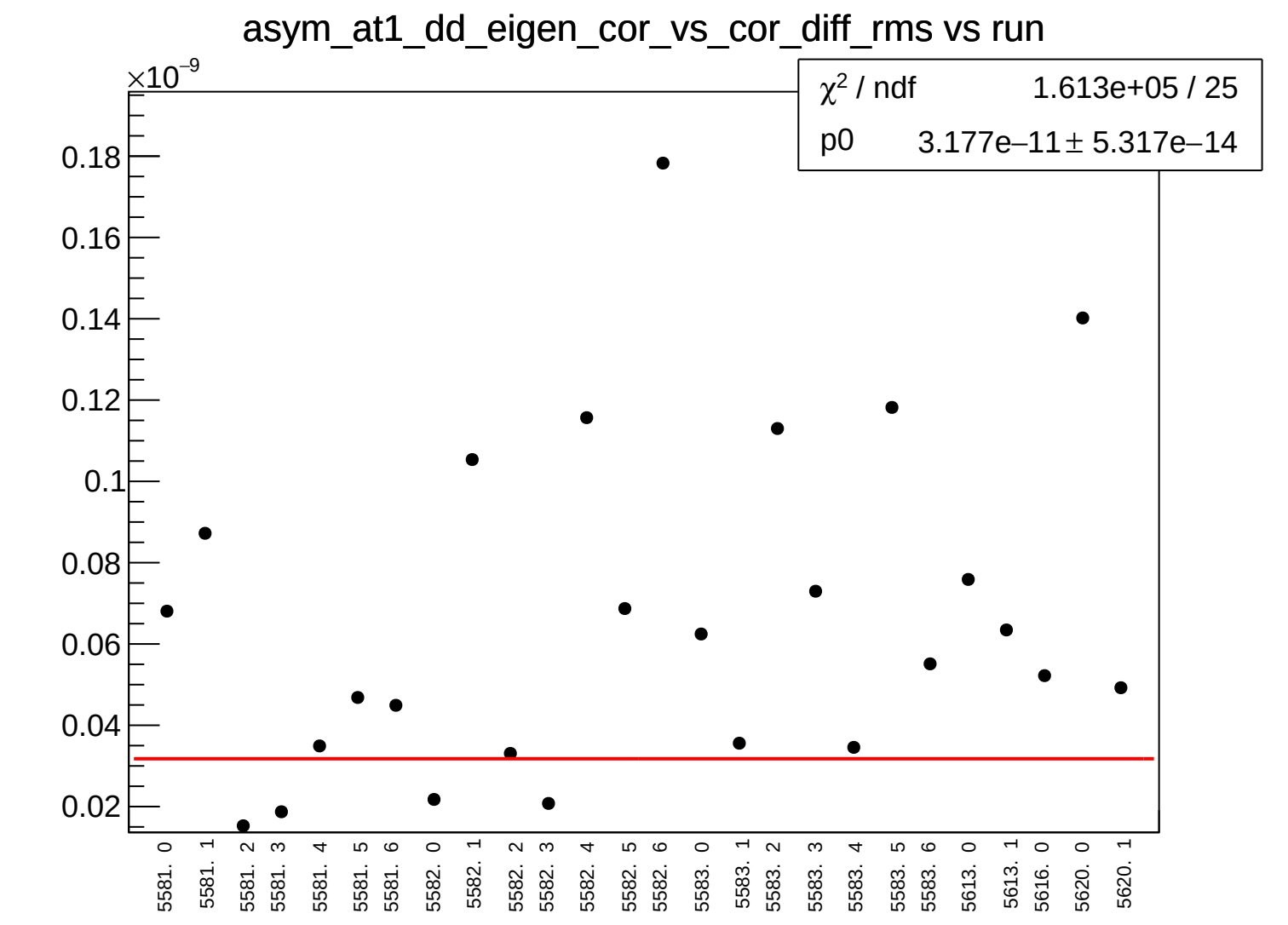

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 28.43 / 32
p0 −0.01803 ± 0.1105
pull
Entries 33
Mean 38.71
Std Dev 0
pull1D
Entries 33
Mean −0.0572
Std Dev 0.9264

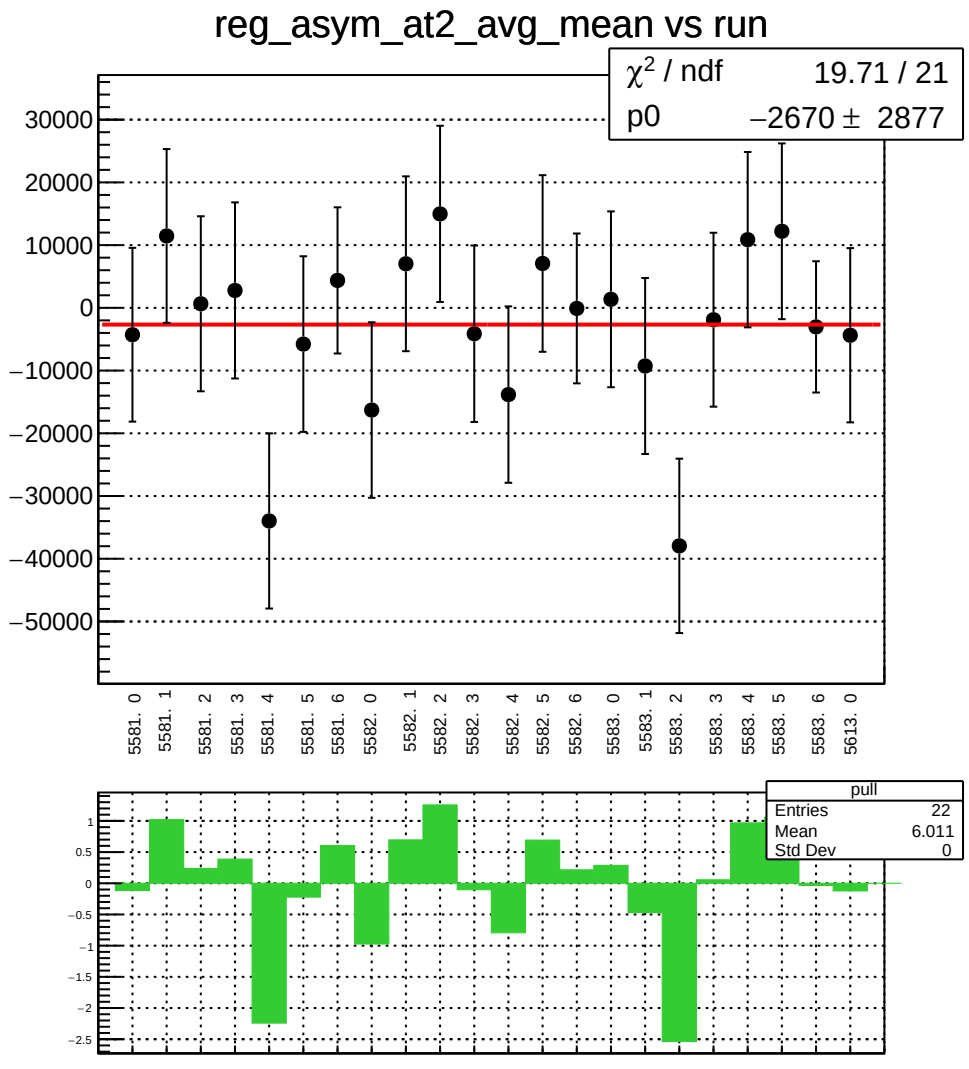

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.863e+05 / 32
p0 47.24 ± 0.07813
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

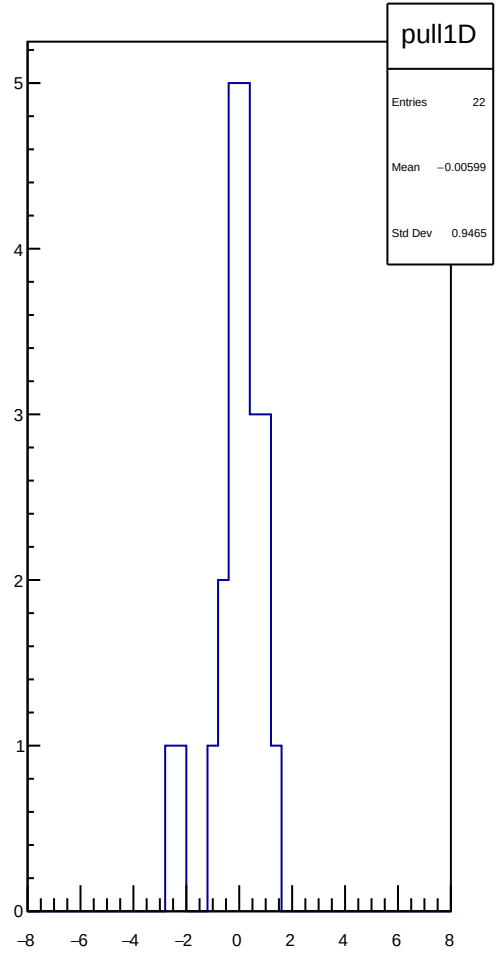

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.43 / 32
p0 −0.01803 ± 0.1105
pull
Entries 33
Mean 38.71
Std Dev 0
pull1D
Entries 33
Mean −0.0572
Std Dev 0.9264

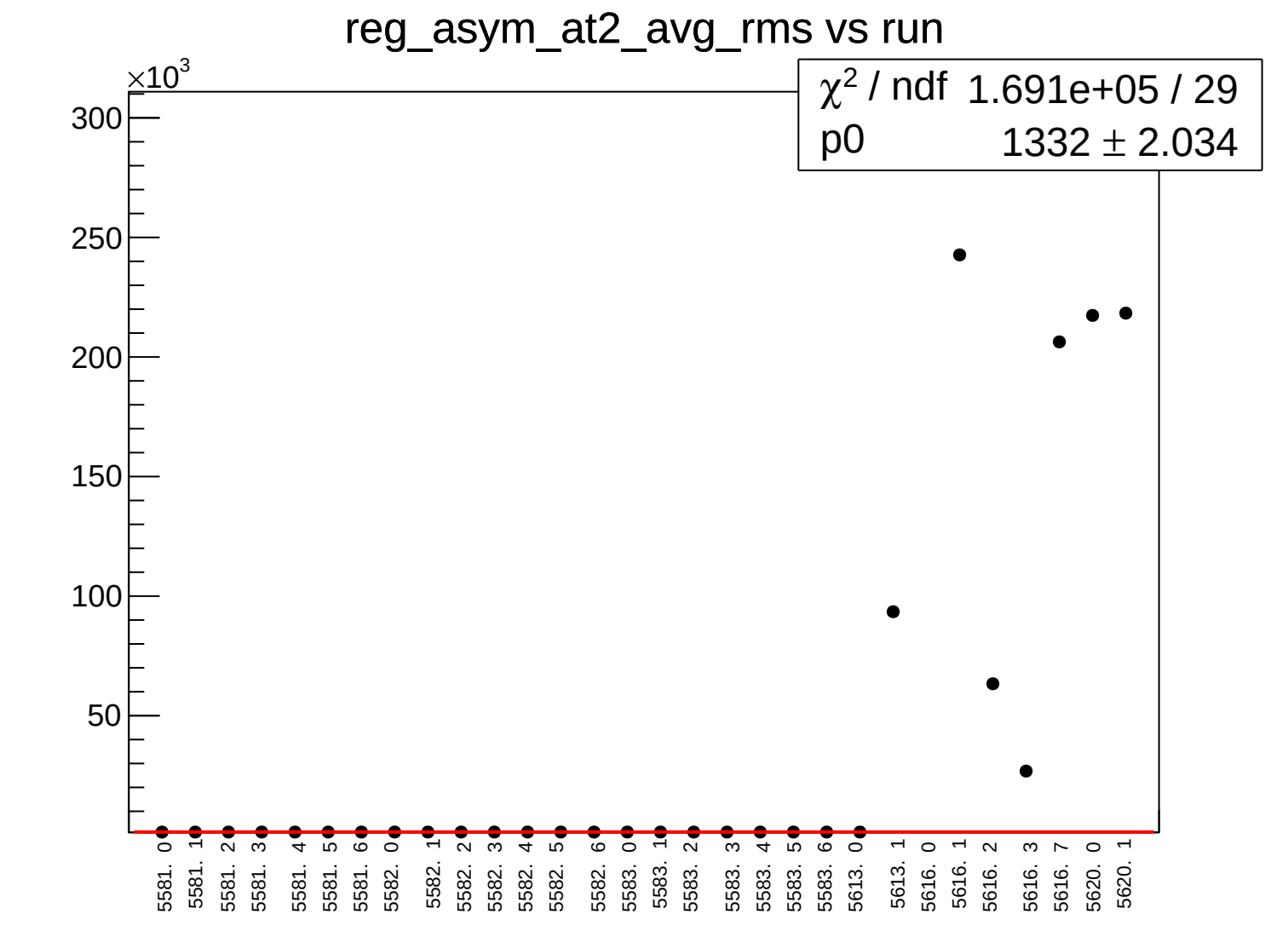

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.863e+05 / 32
p0 47.24 ± 0.07813
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

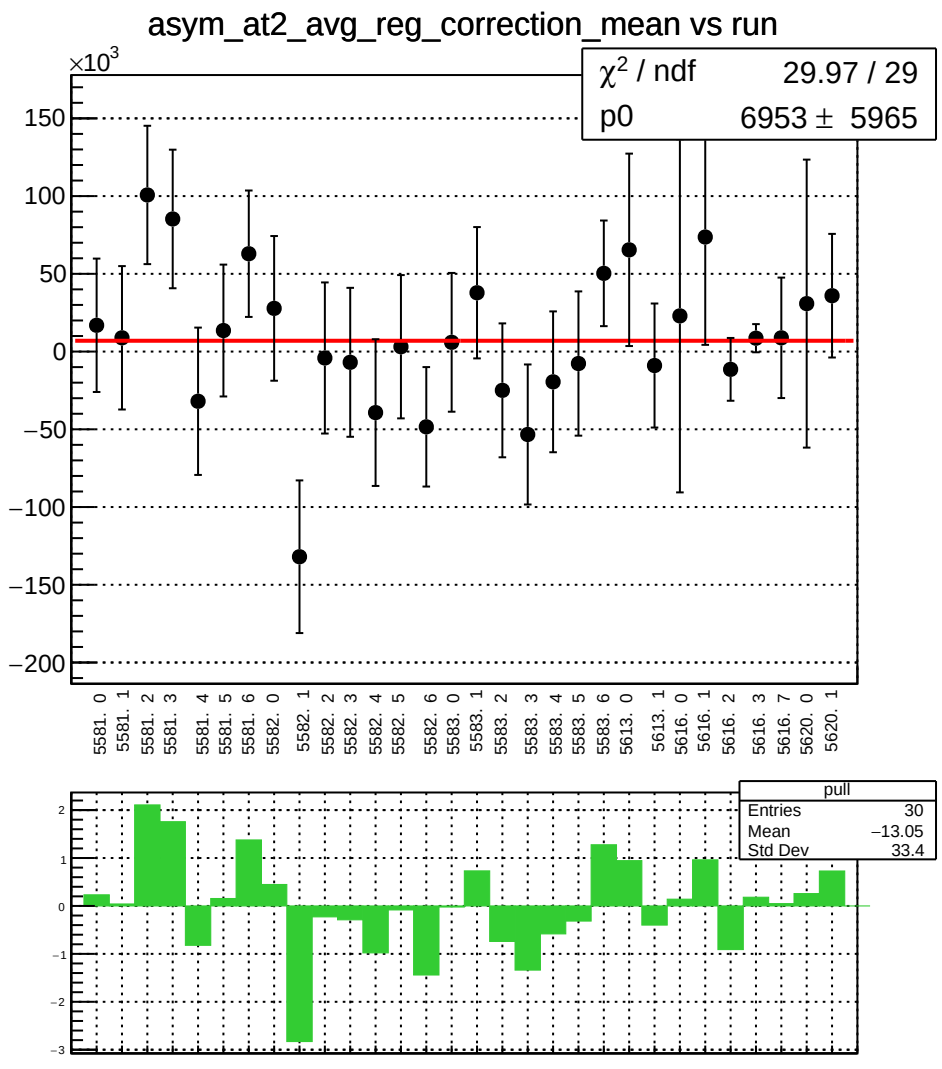

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 22.03 / 25
p0 5.094e−14 ± 7.519e−14
3
2
1
0
−1
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 21.81
Std Dev 10.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.05473
Std Dev 0.919
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

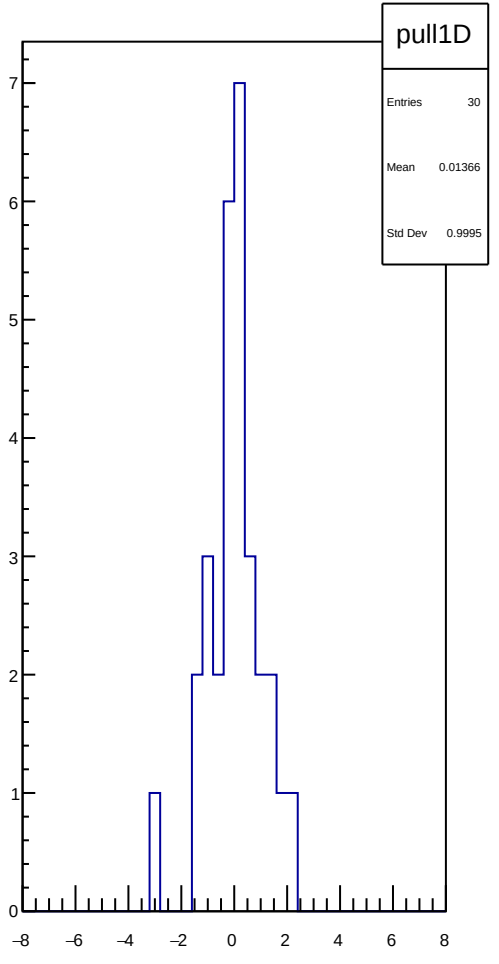

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.613e+05 / 25
p0 3.177e−11 ± 5.317e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

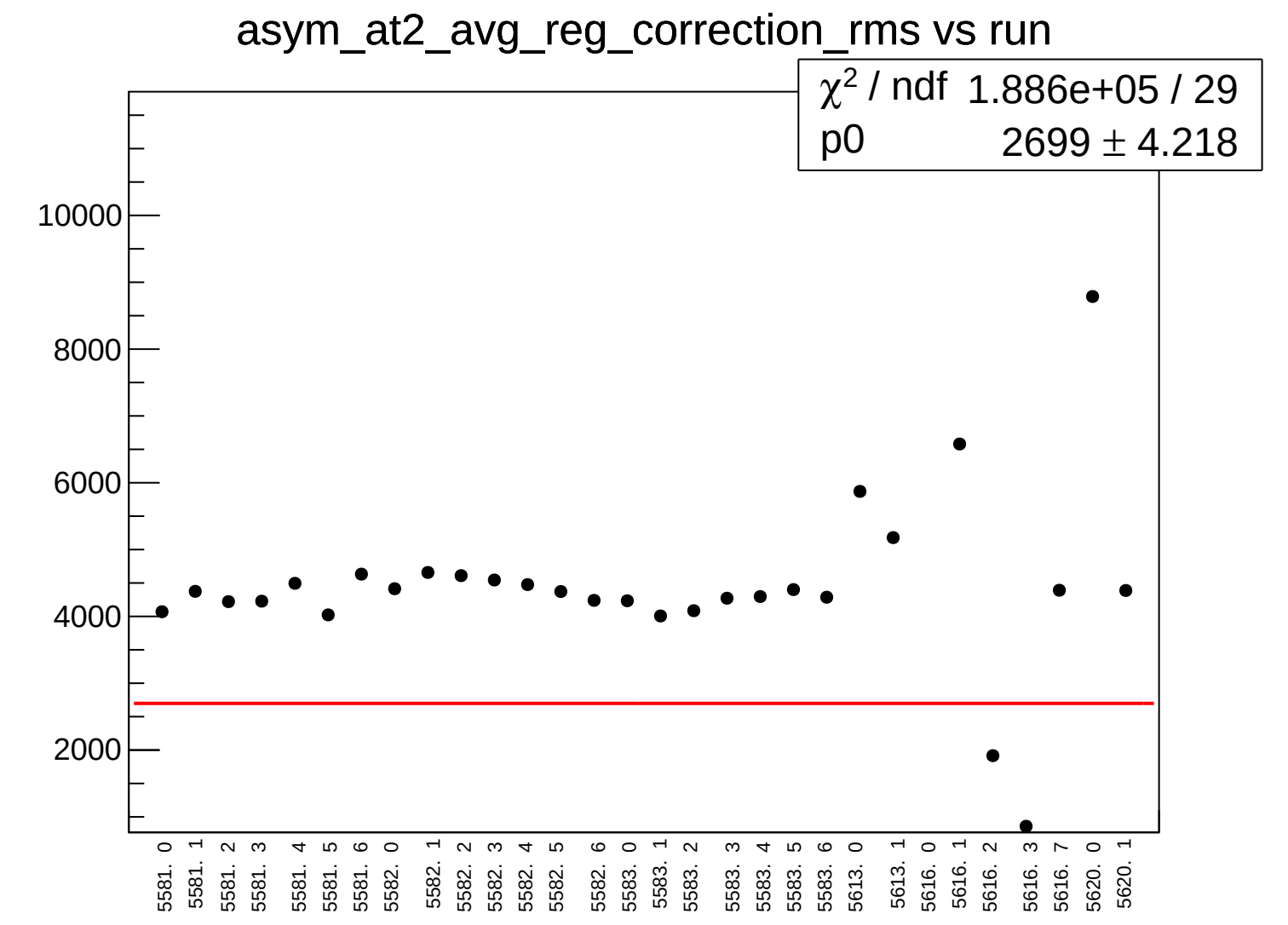

reg_asym_at2_avg_mean vs run
χ² / ndf 19.71 / 21
p0 −2670 ± 2877
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 6.011
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

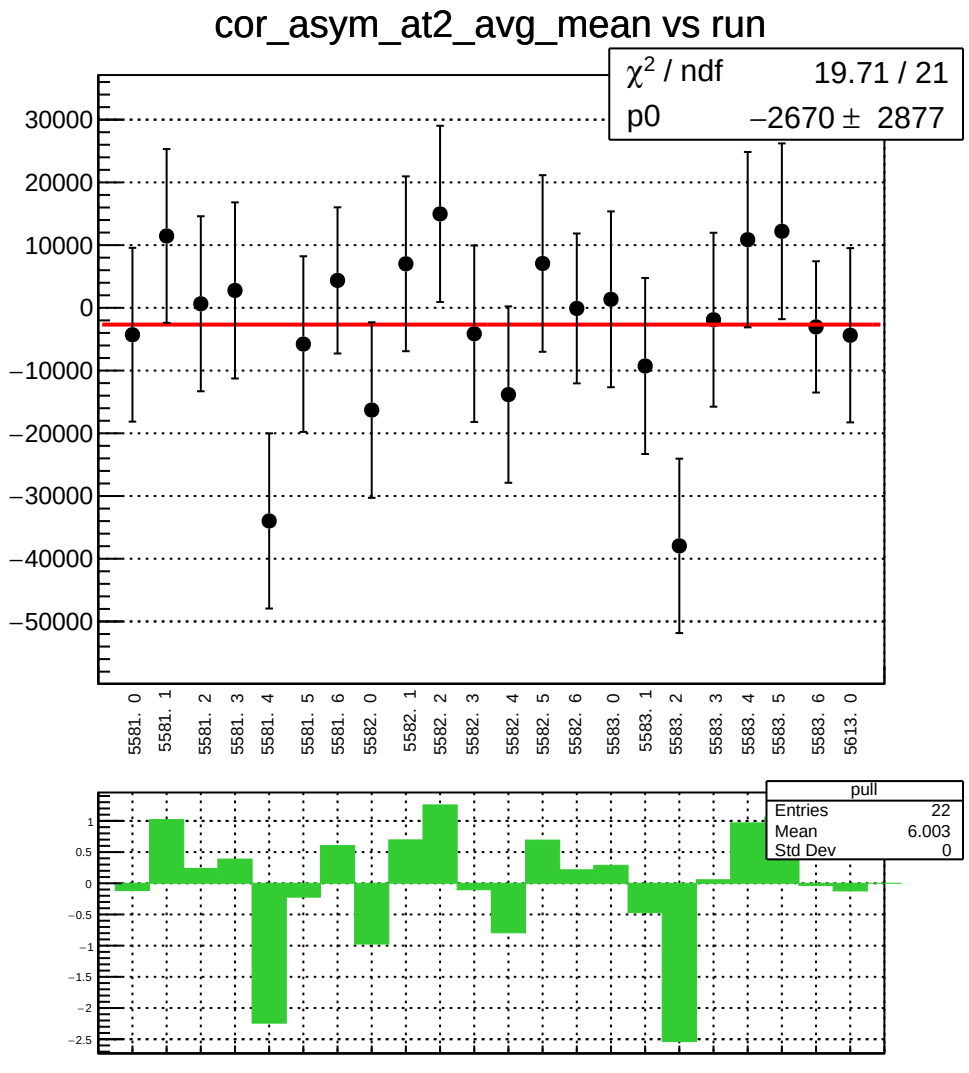

pull1D
Entries 22
Mean −0.00599
Std Dev 0.9465
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

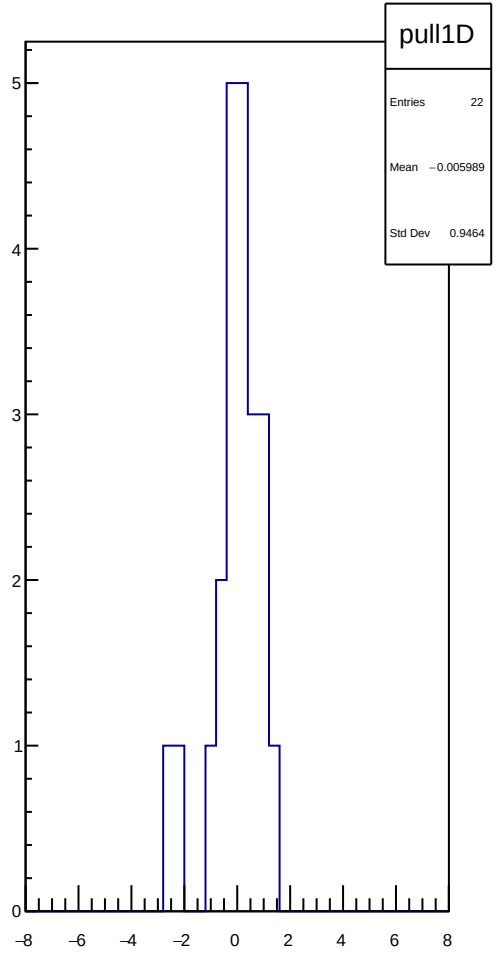

reg_asym_at2_avg_rms vs run
×10^3
χ^2 / ndf 1.691e+05 / 29
p0 1332 ± 2.034
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

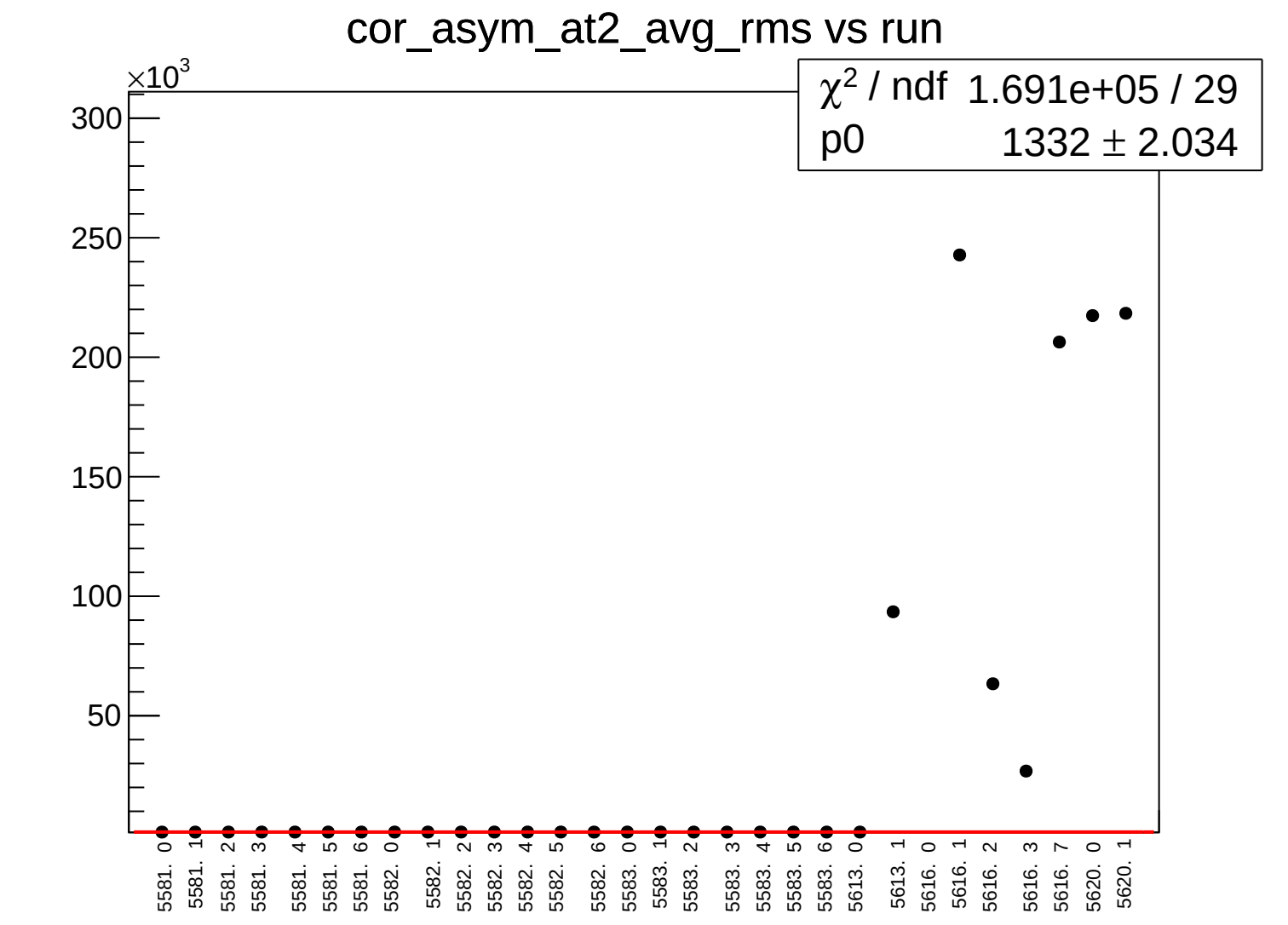

asym_at2_avg_reg_correction_mean vs run
χ² / ndf 29.97 / 29
p0 6953 ± 5965
×10³
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean −13.05
Std Dev 33.4
2
1
0
−1
−2
−3

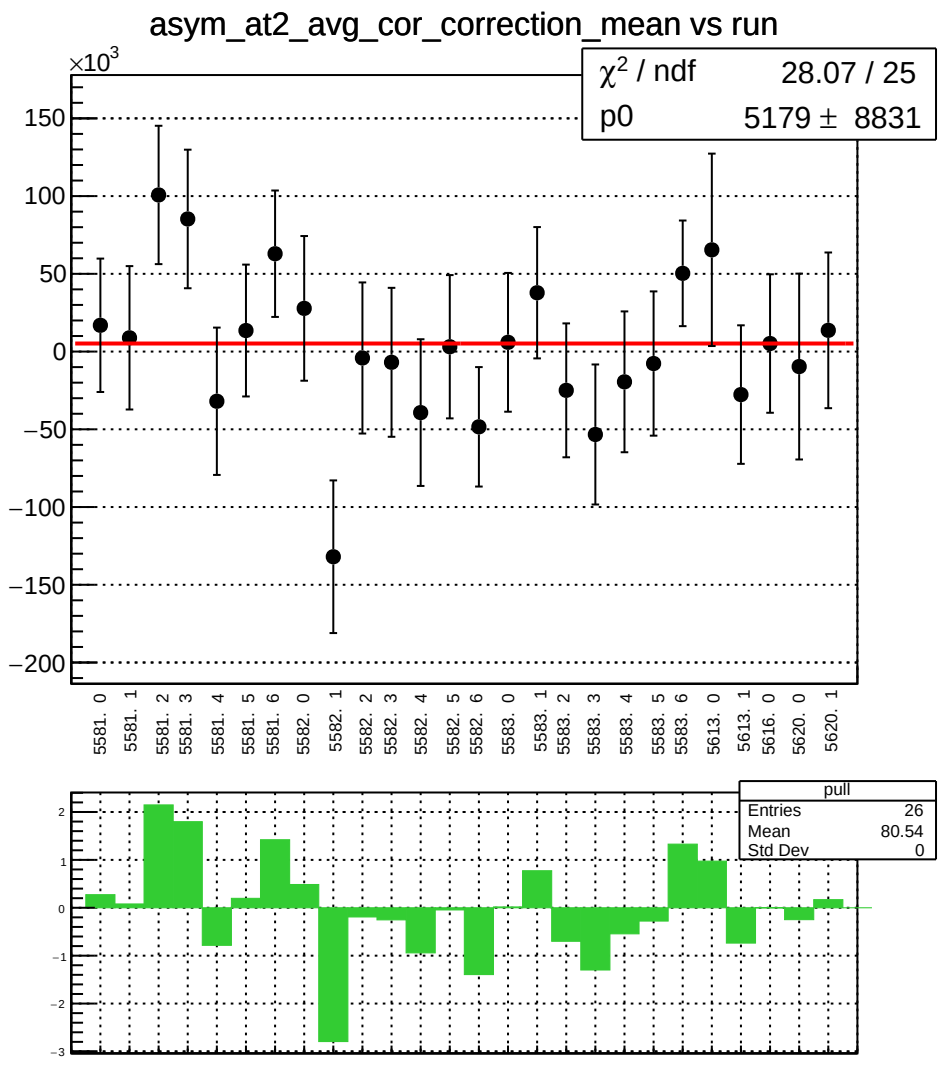

pull1D
Entries 30
Mean 0.01366
Std Dev 0.9995
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

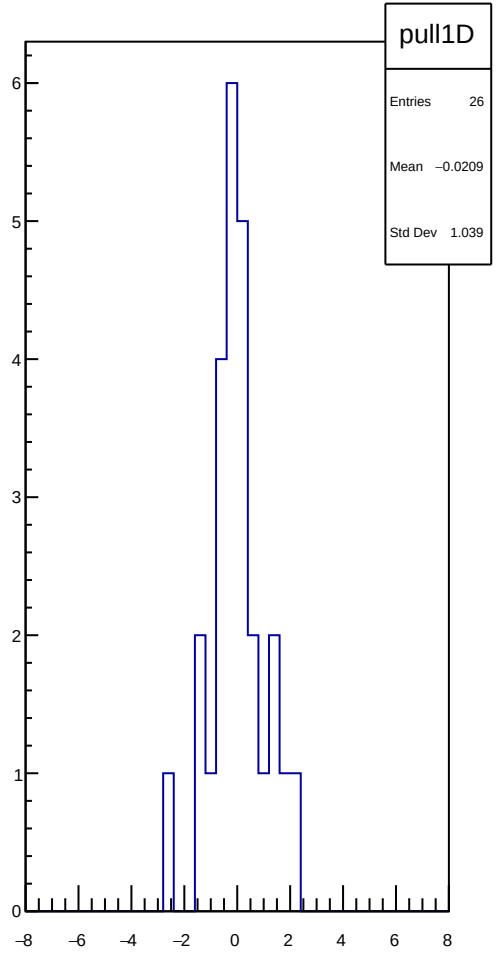

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1.886e+05 / 29
p0 2699 ± 4.218
10000
8000
6000
4000
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

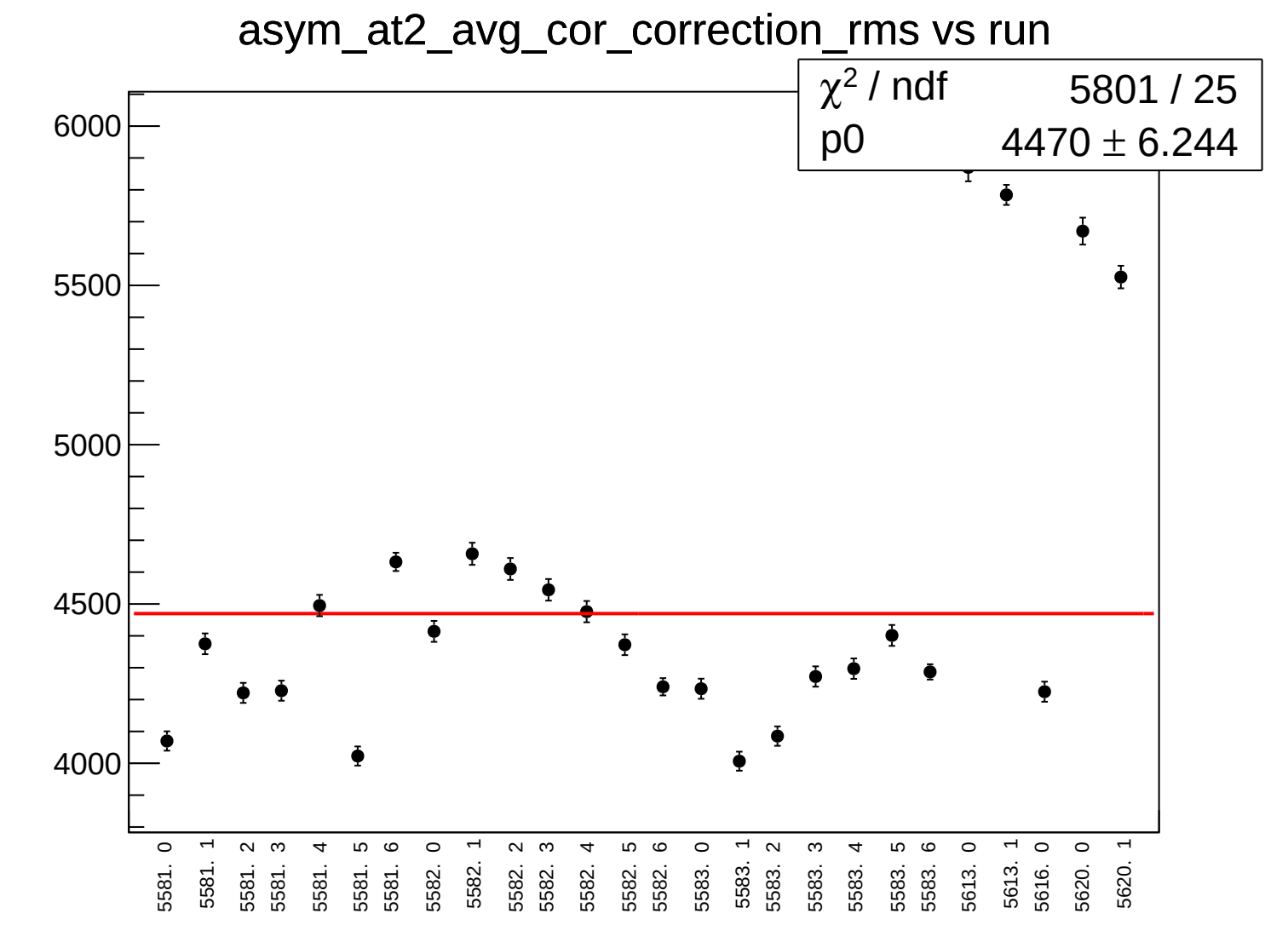

cor_asym_at2_avg_mean vs run
χ² / ndf 19.71 / 21
p0 −2670 ± 2877
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 6.003
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

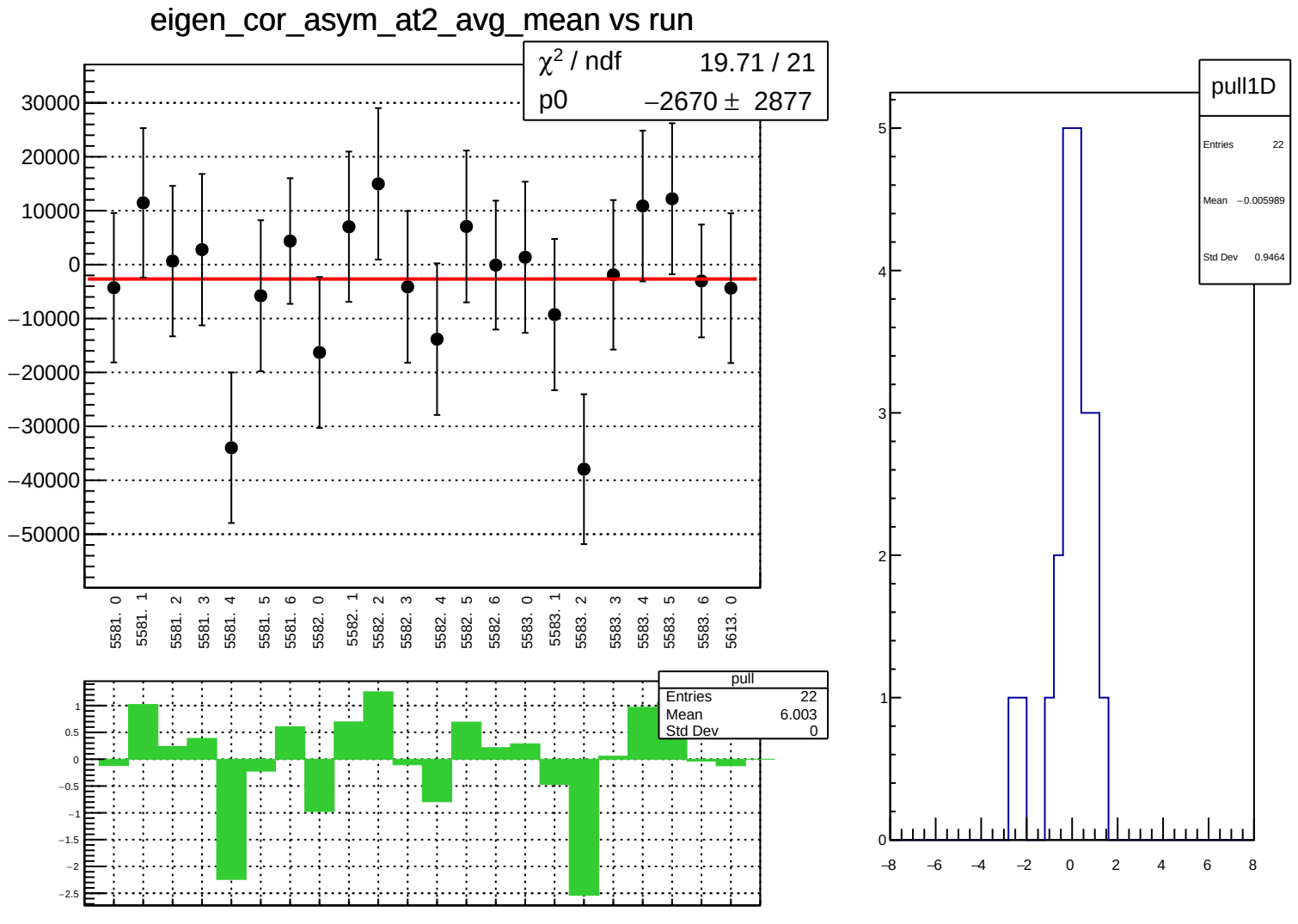

pull1D
Entries 22
Mean −0.005989
Std Dev 0.9464
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

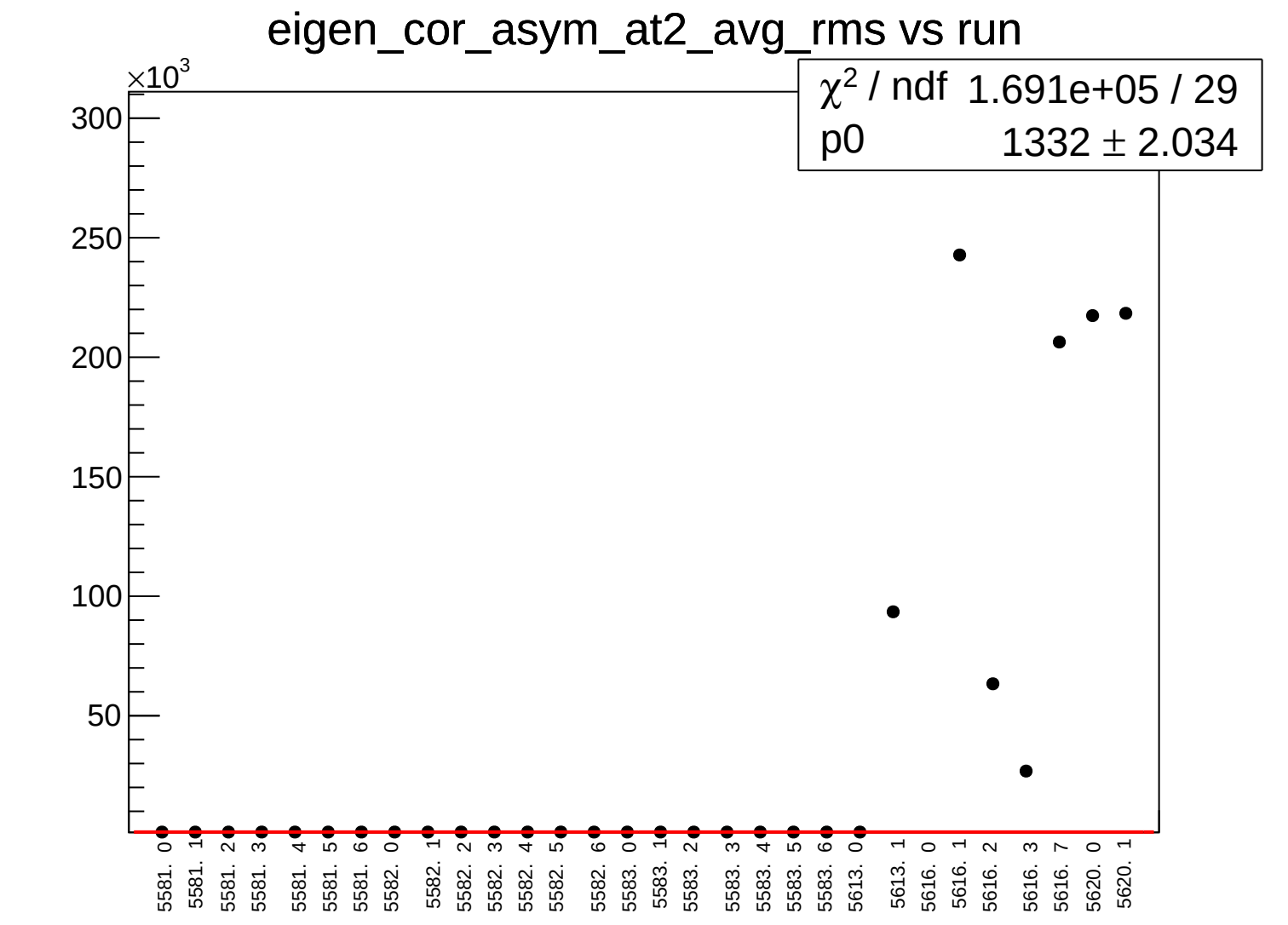

cor_asym_at2_avg_rms vs run
×10^3
χ^2 / ndf 1.691e+05 / 29
p0 1332 ± 2.034
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

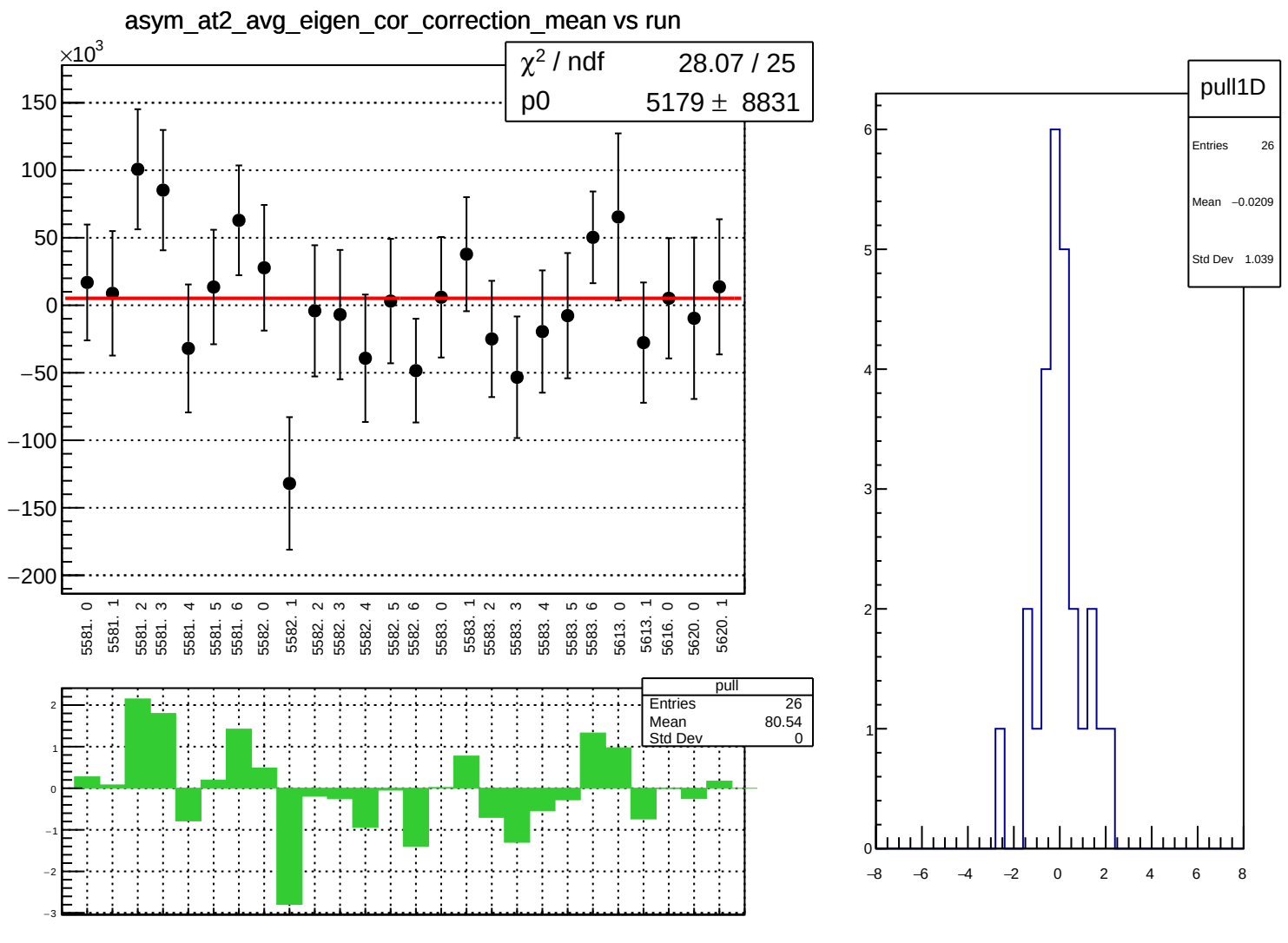

asym_at2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 28.07 / 25
p0 5179 ± 8831
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 80.54
Std Dev 0
2
1
0
−1
−2
−3

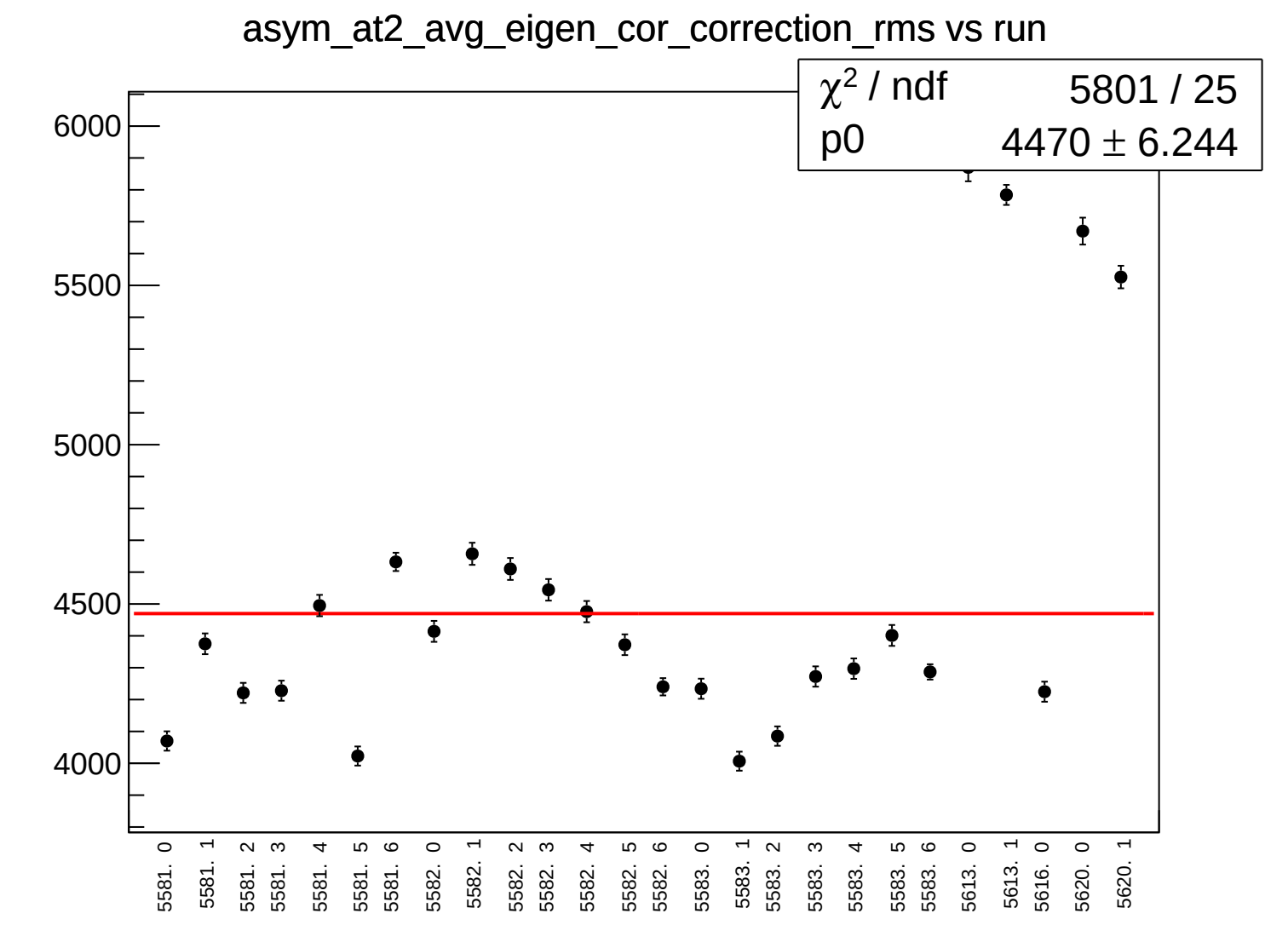

pull1D
Entries 26
Mean −0.0209
Std Dev 1.039
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

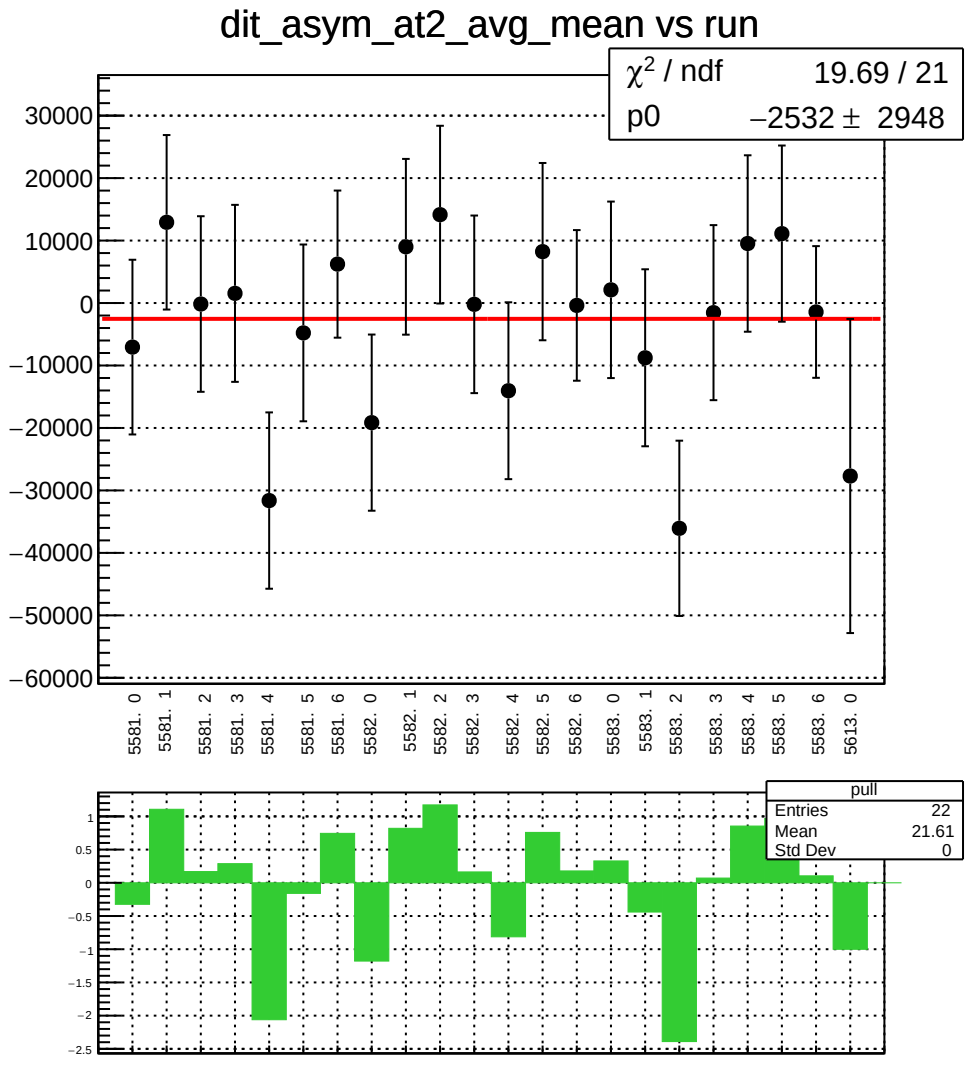

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 5801 / 25
p0 4470 ± 6.244
6000
5500
5000
4500
4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

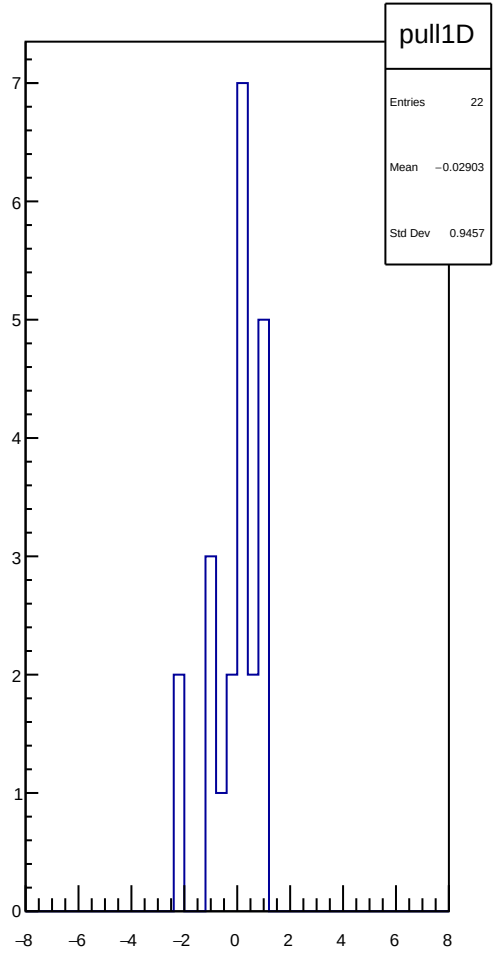

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 19.71 / 21
p0 −2670 ± 2877
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 6.003
Std Dev 0
pull1D
Entries 22
Mean −0.005989
Std Dev 0.9464

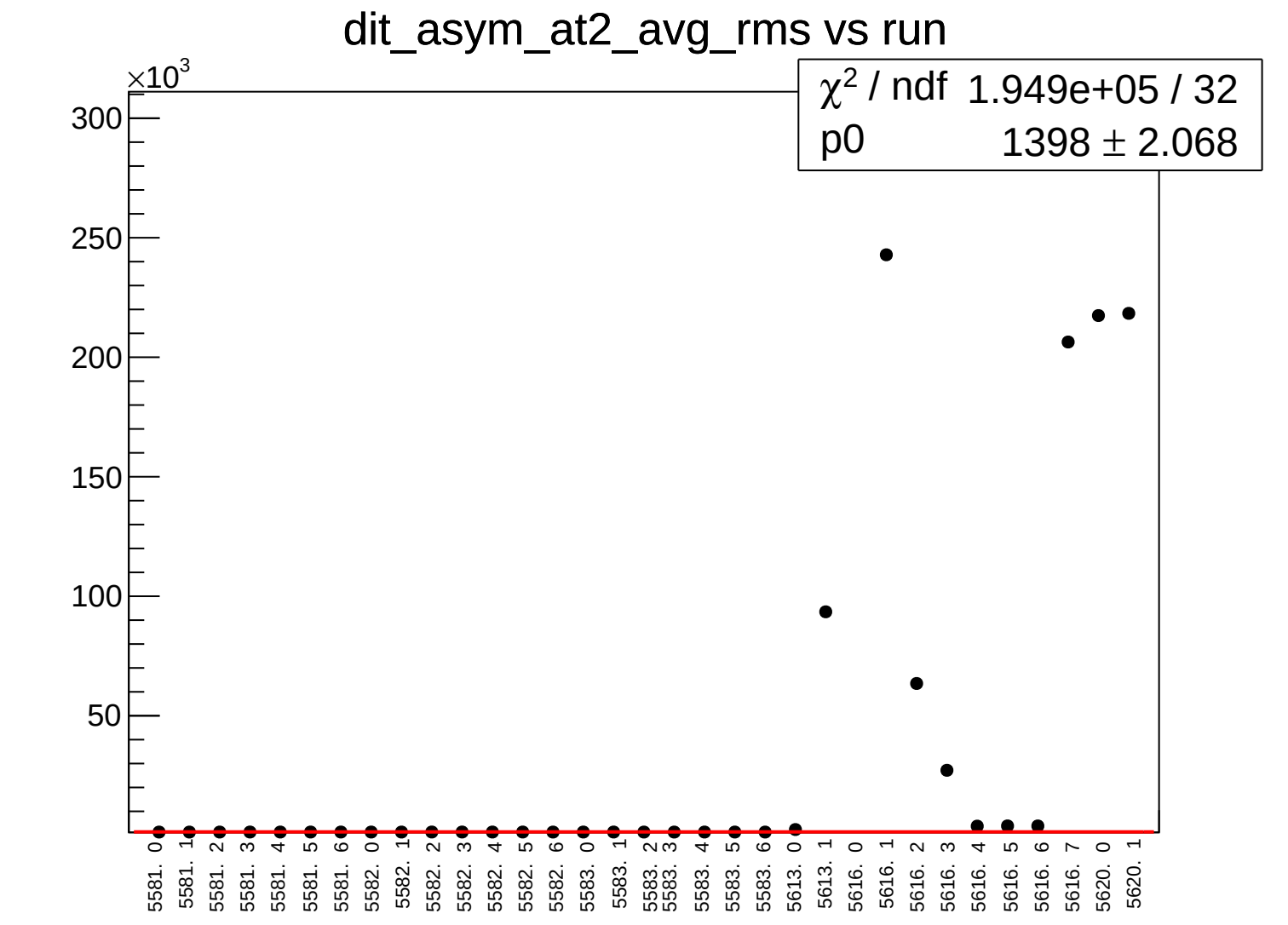

eigen_cor_asym_at2_avg_rms vs run
×10^3
300
250
200
150
100
50
χ² / ndf 1.691e+05 / 29
p0 1332 ± 2.034
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

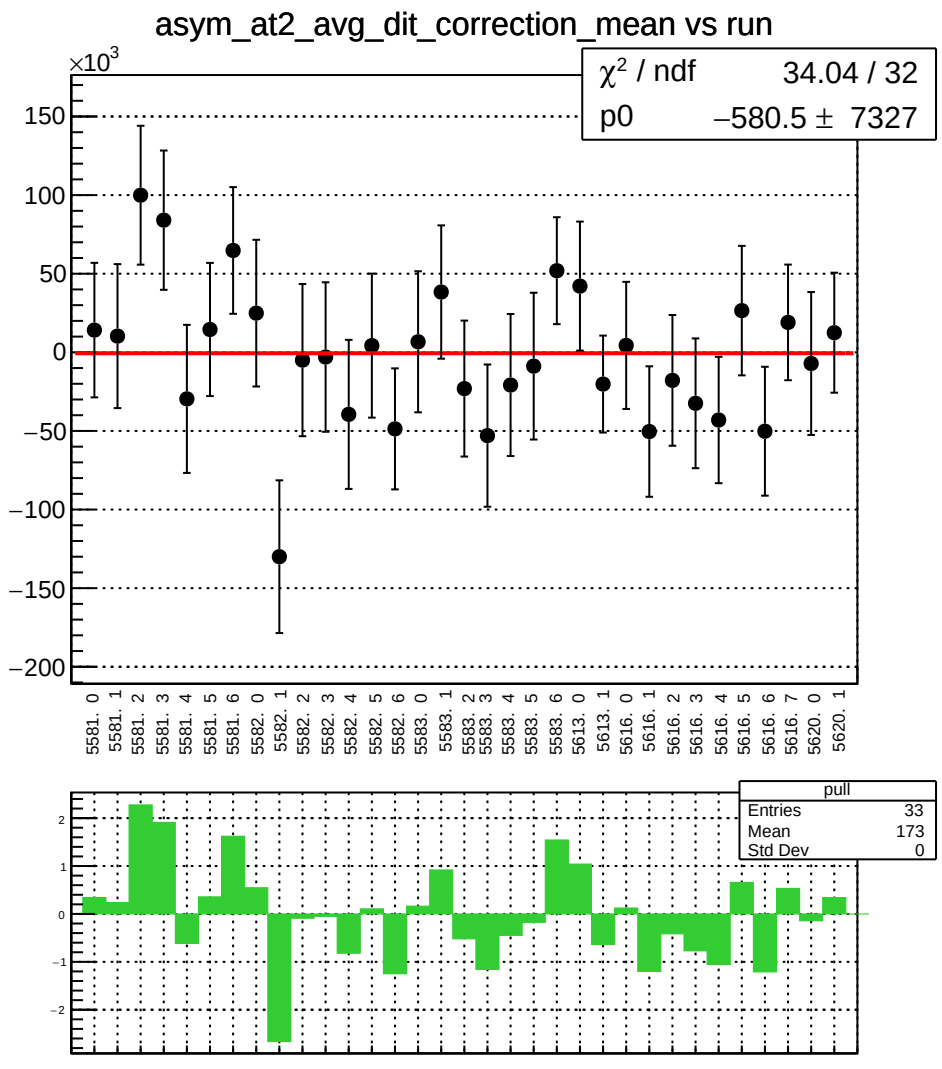

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 28.07 / 25
p0 5179 ± 8831
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 80.54
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 26
Mean −0.0209
Std Dev 1.039
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

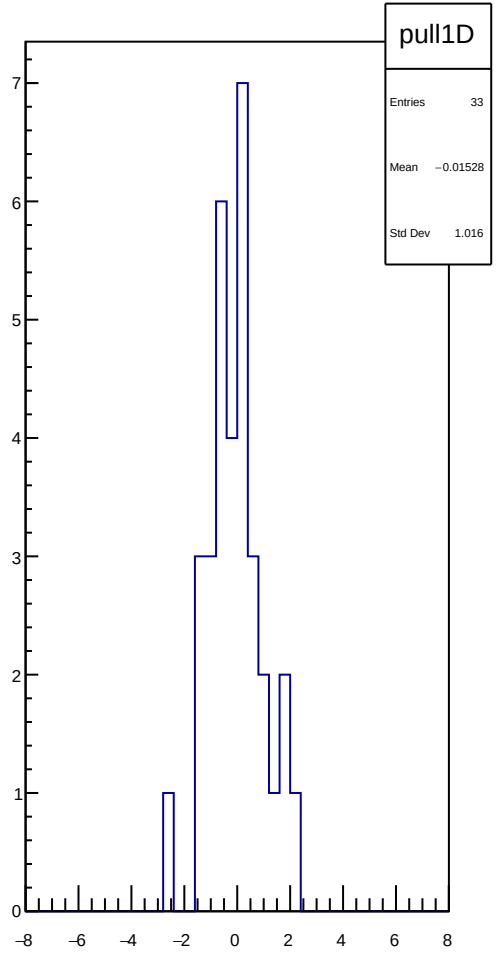

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5801 / 25
p0 4470 ± 6.244
6000
5500
5000
4500
4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

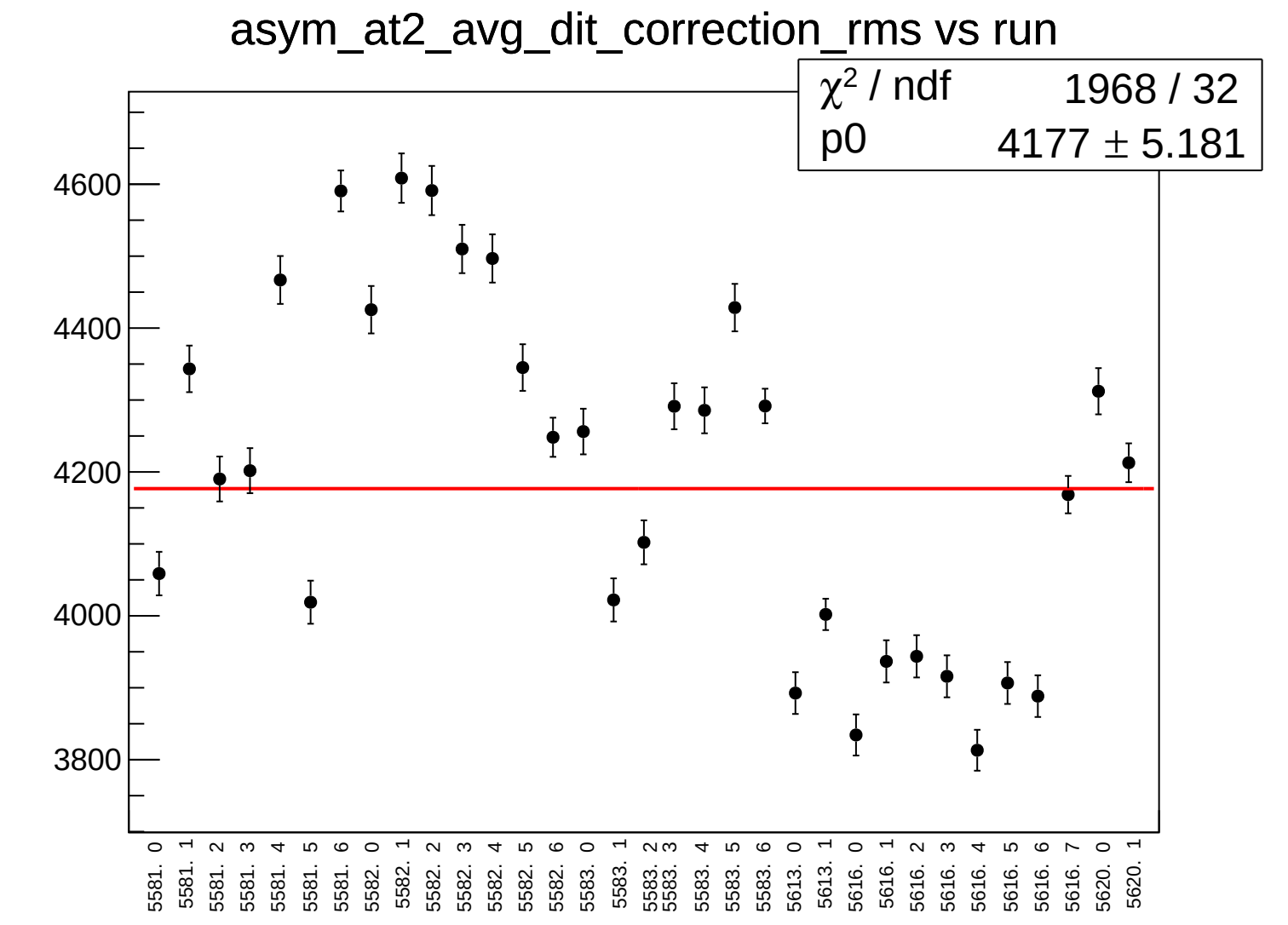

dit_asym_at2_avg_mean vs run
χ² / ndf 19.69 / 21
p0 −2532 ± 2948
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 21.61
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

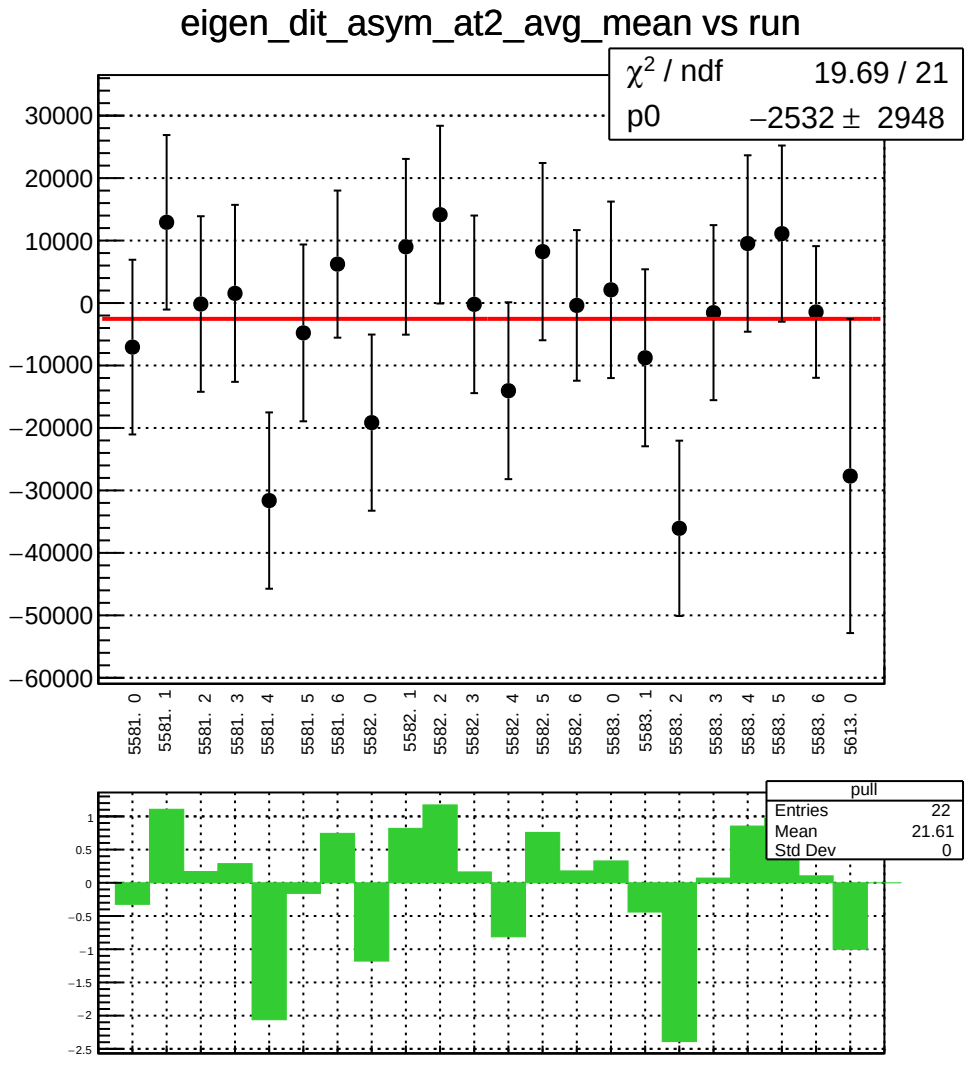

pull1D
Entries 22
Mean −0.02903
Std Dev 0.9457
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

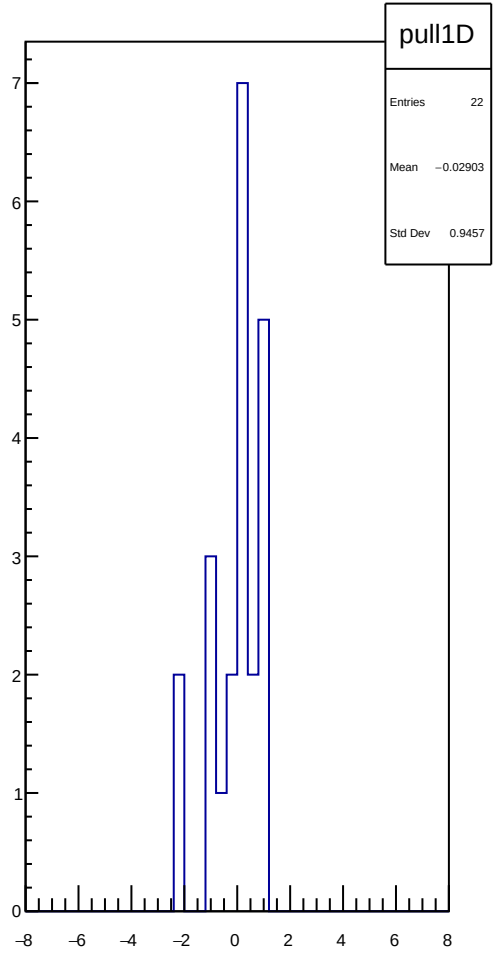

dit_asym_at2_avg_rms vs run
×10^3
χ^2 / ndf 1.949e+05 / 32
p0 1398 ± 2.068
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

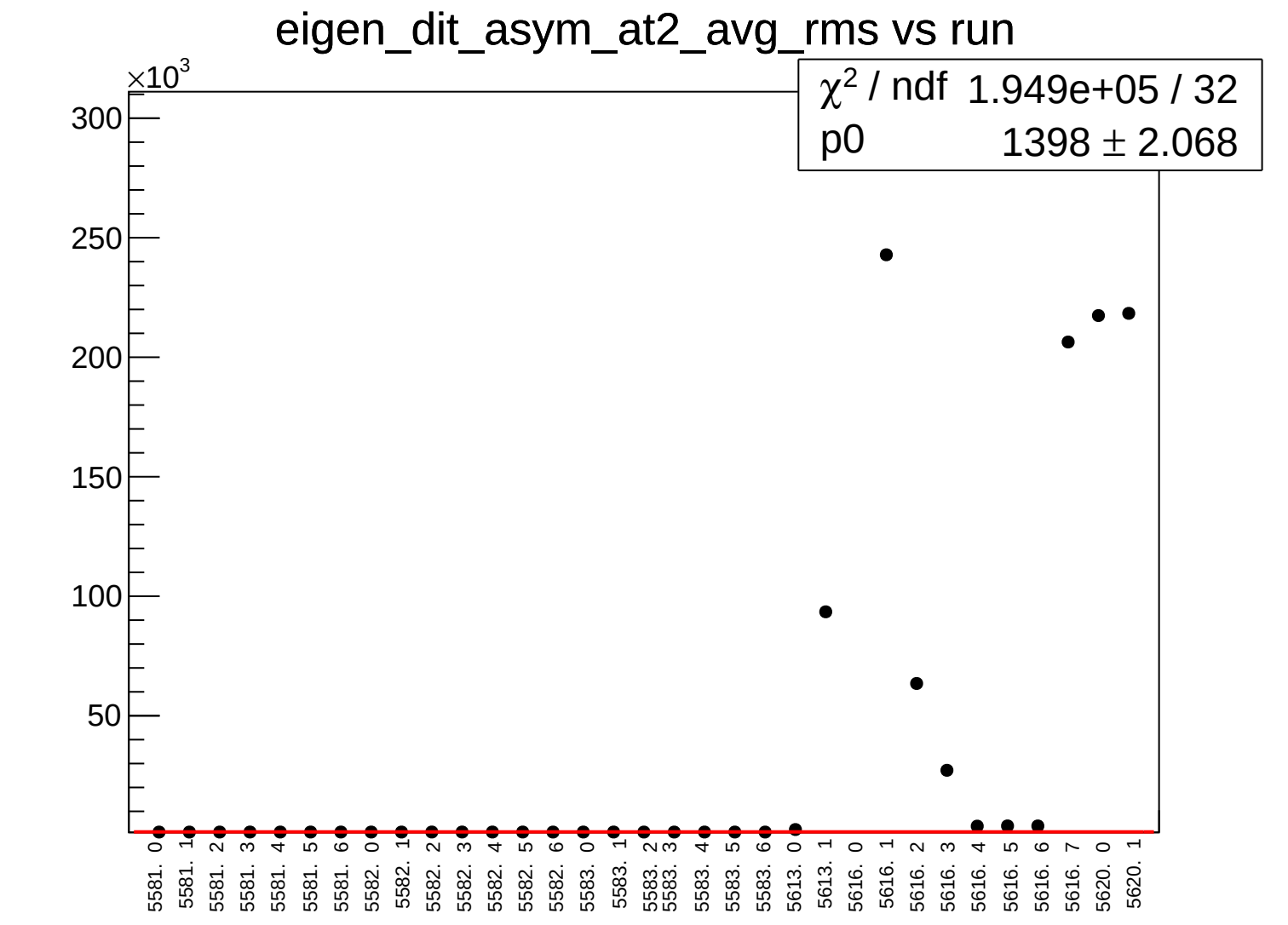

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 34.04 / 32
p0 −580.5 ± 7327
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 173
Std Dev 0
2
1
0
−1
−2

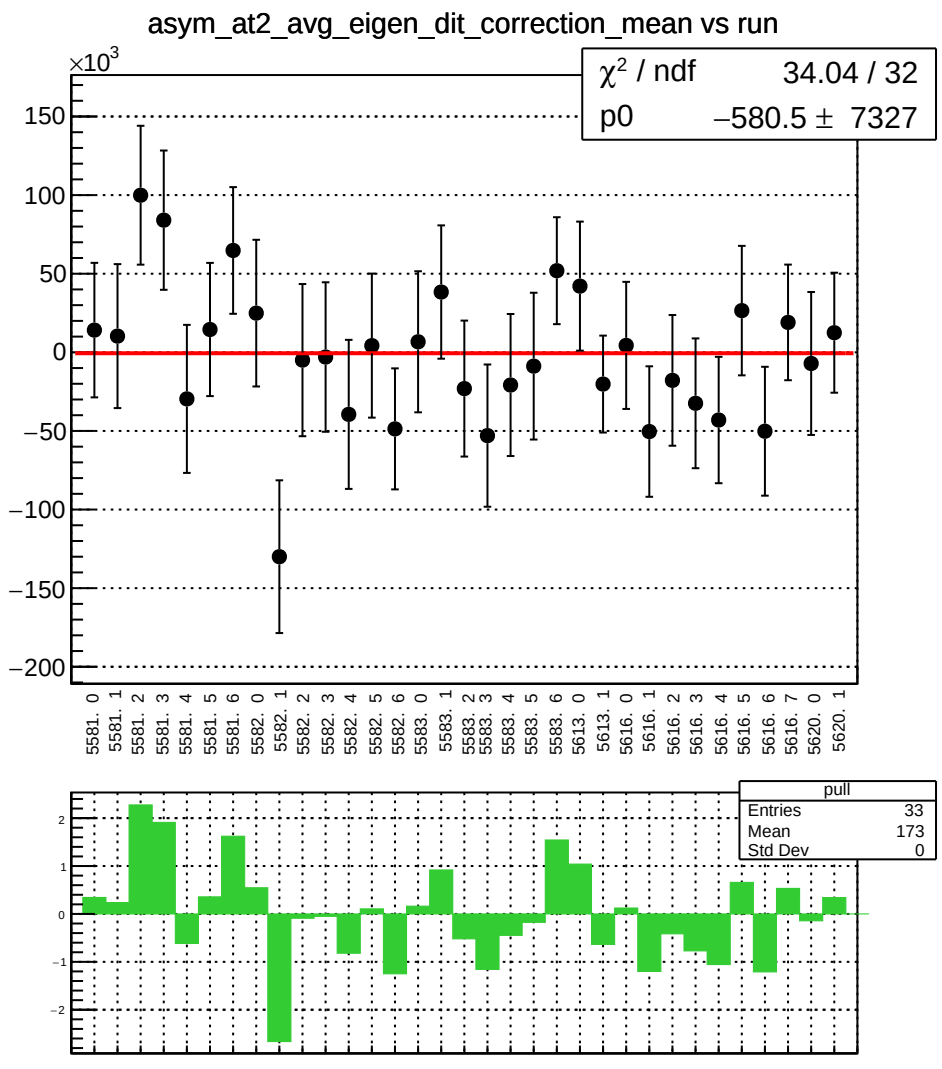

pull1D
Entries 33
Mean −0.01528
Std Dev 1.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

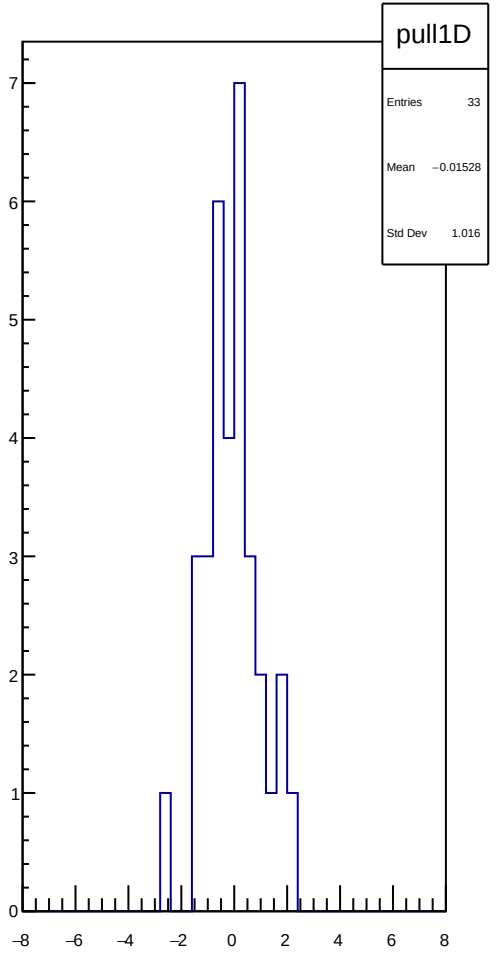

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 1968 / 32
p0 4177 ± 5.181
4600
4400
4200
4000
3800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

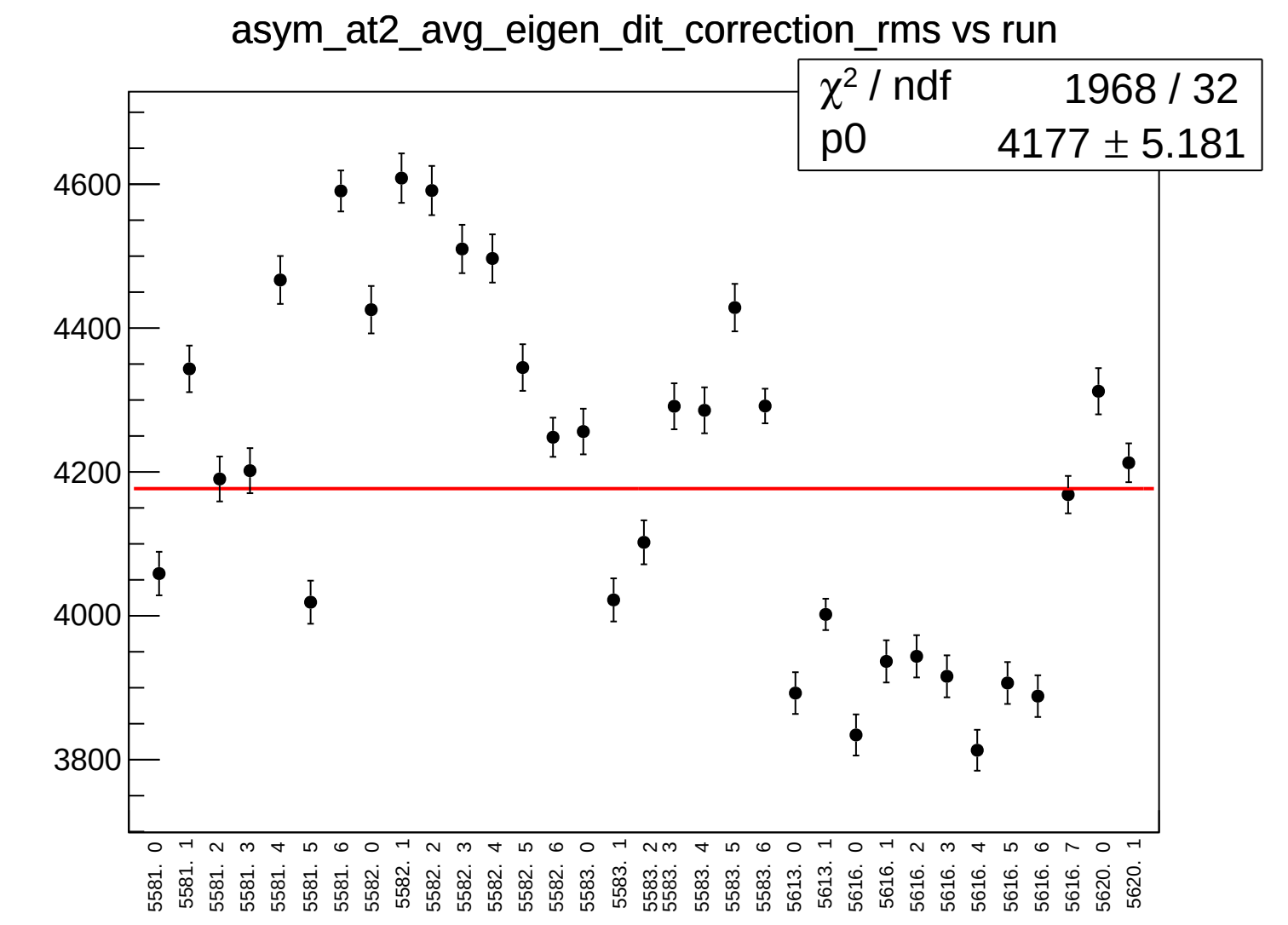

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 19.69 / 21
p0 −2532 ± 2948
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 21.61
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

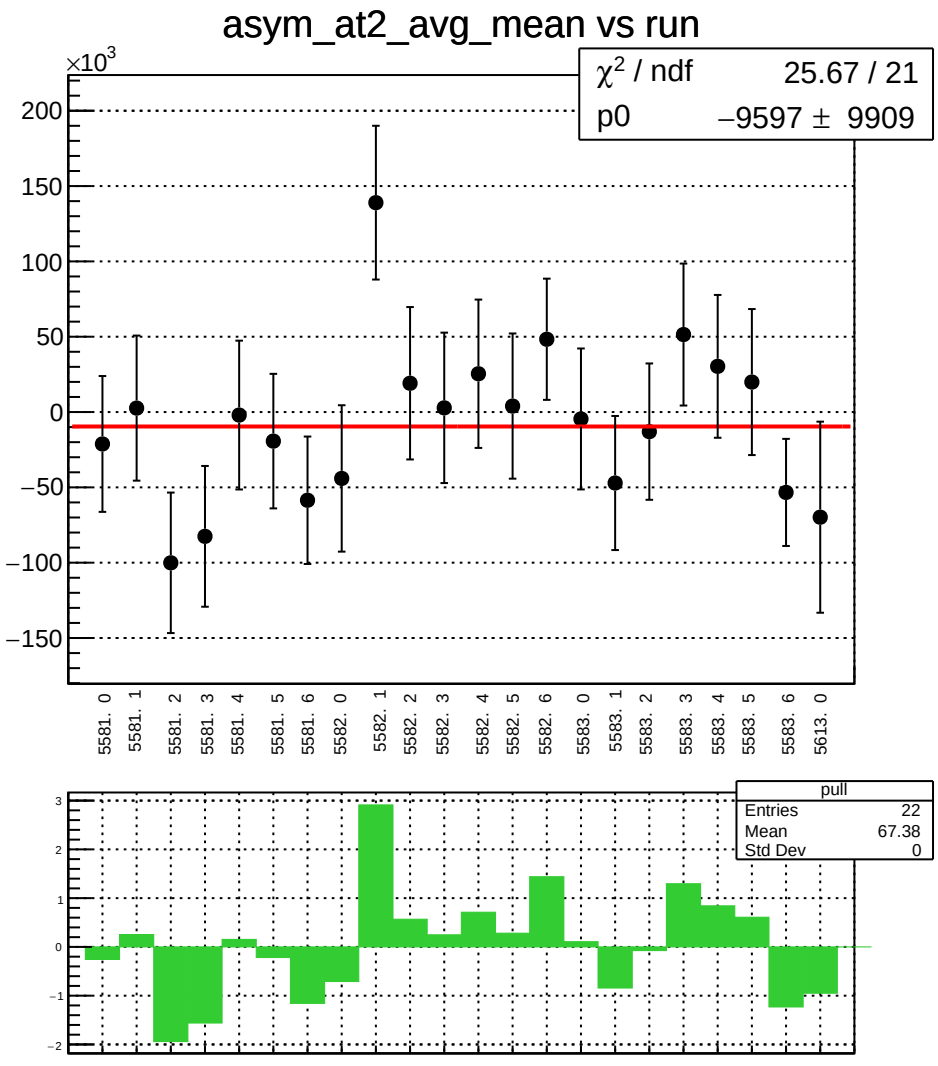

pull1D
Entries 22
Mean −0.02903
Std Dev 0.9457
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

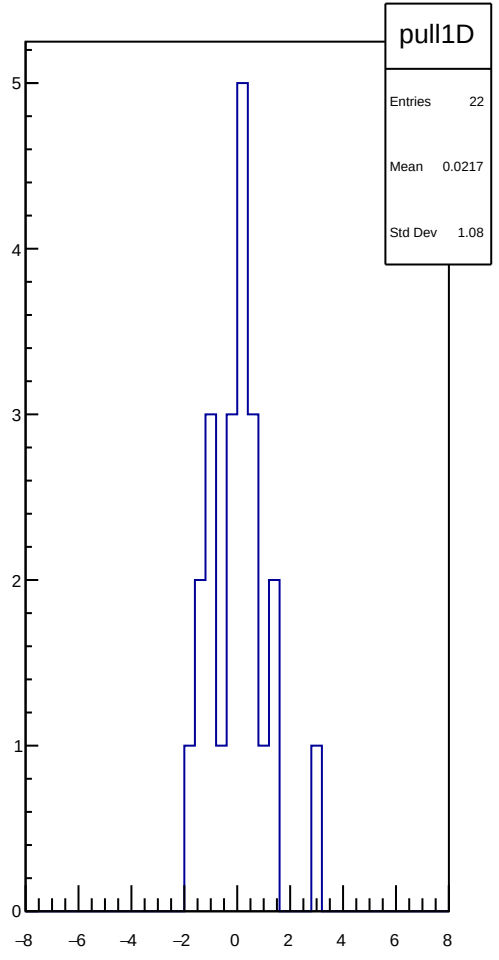

eigen_dit_asym_at2_avg_rms vs run
×10^3
χ^2 / ndf 1.949e+05 / 32
p0 1398 ± 2.068
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

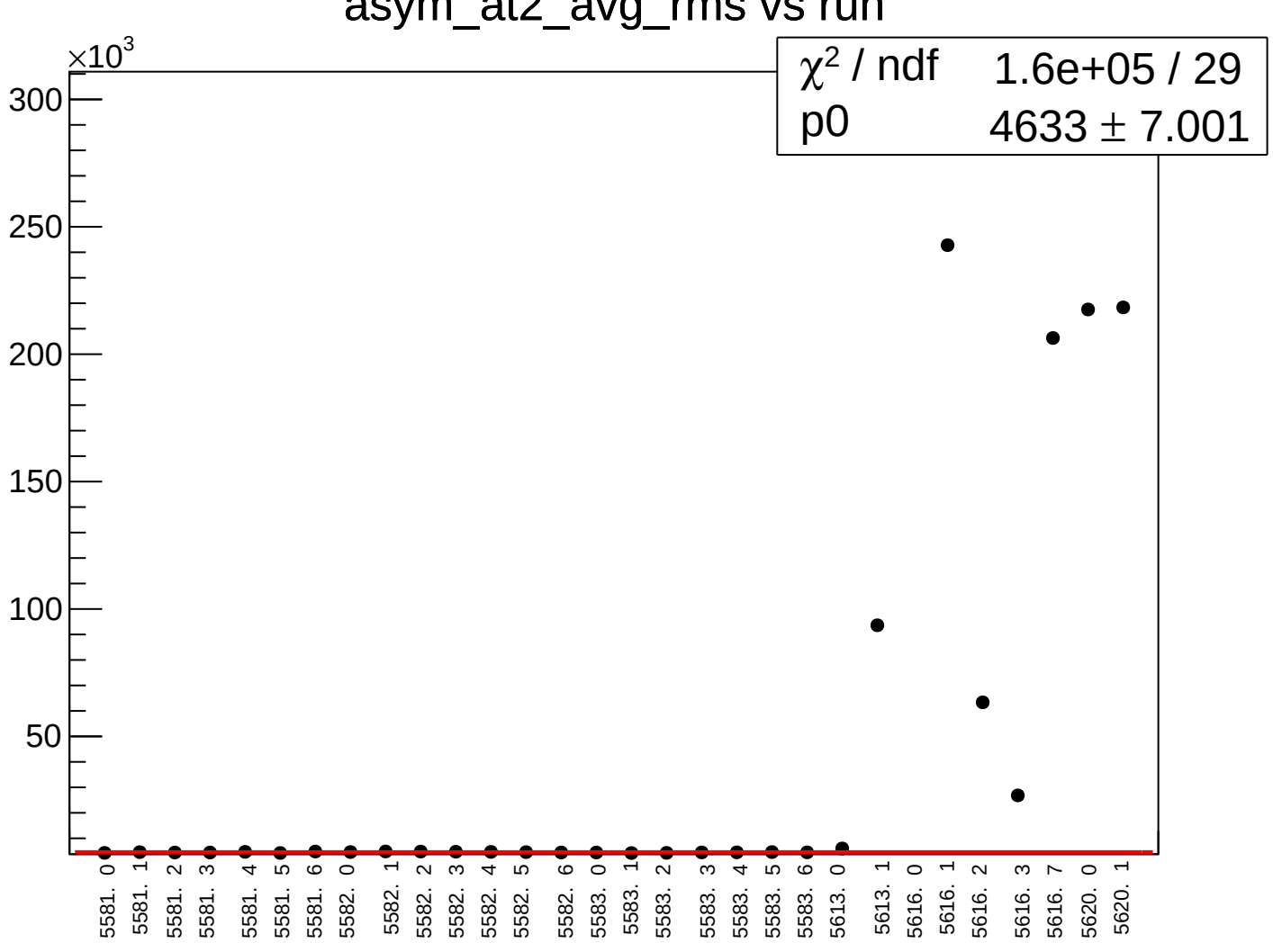

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 34.04 / 32
p0 −580.5 ± 7327
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 173
Std Dev 0
2
1
0
−1
−2

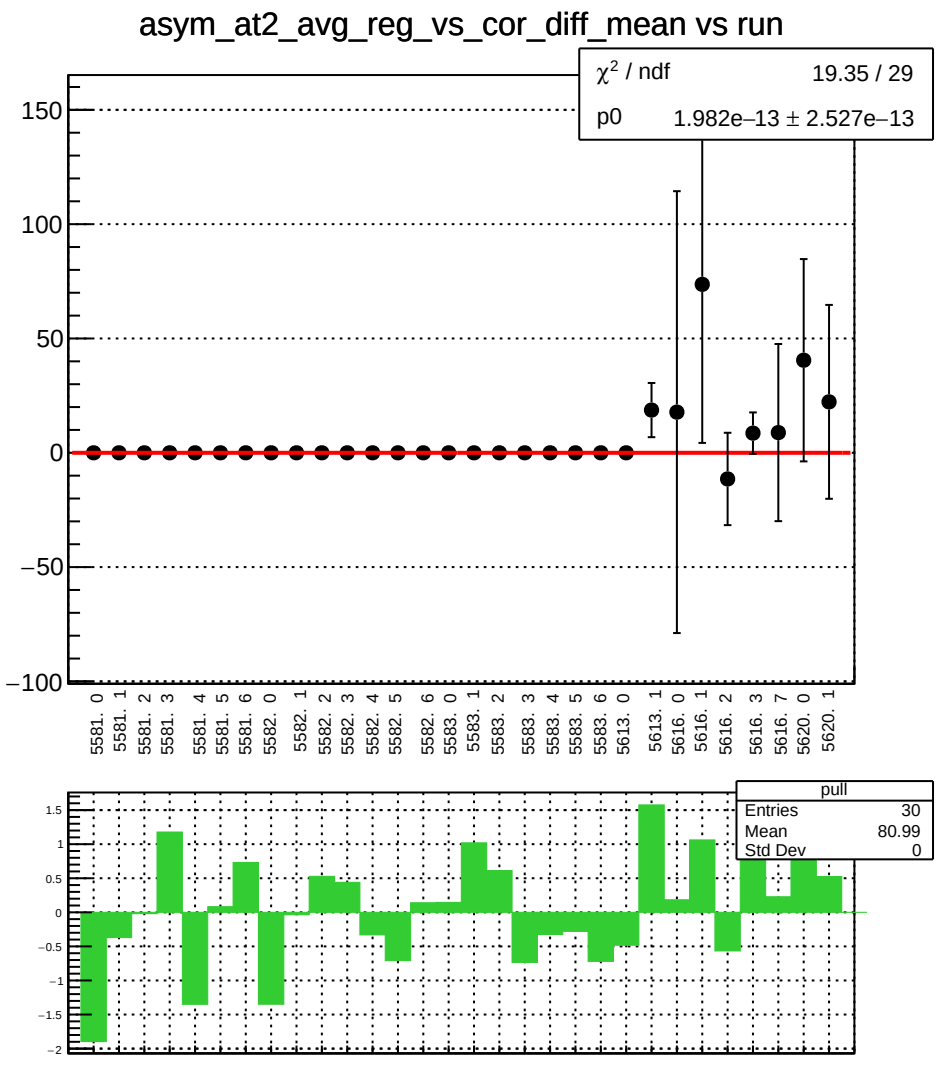

pull1D
Entries 33
Mean −0.01528
Std Dev 1.016
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

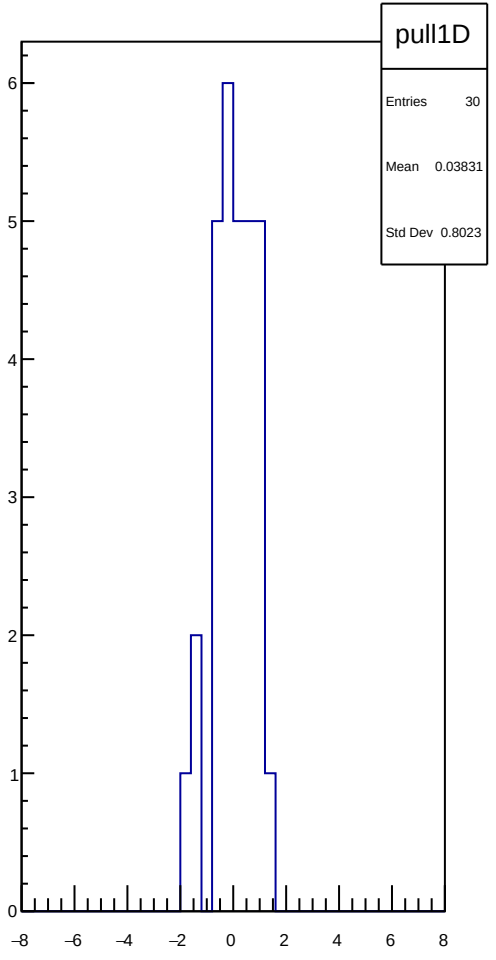

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1968 / 32
p0 4177 ± 5.181
4600
4400
4200
4000
3800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

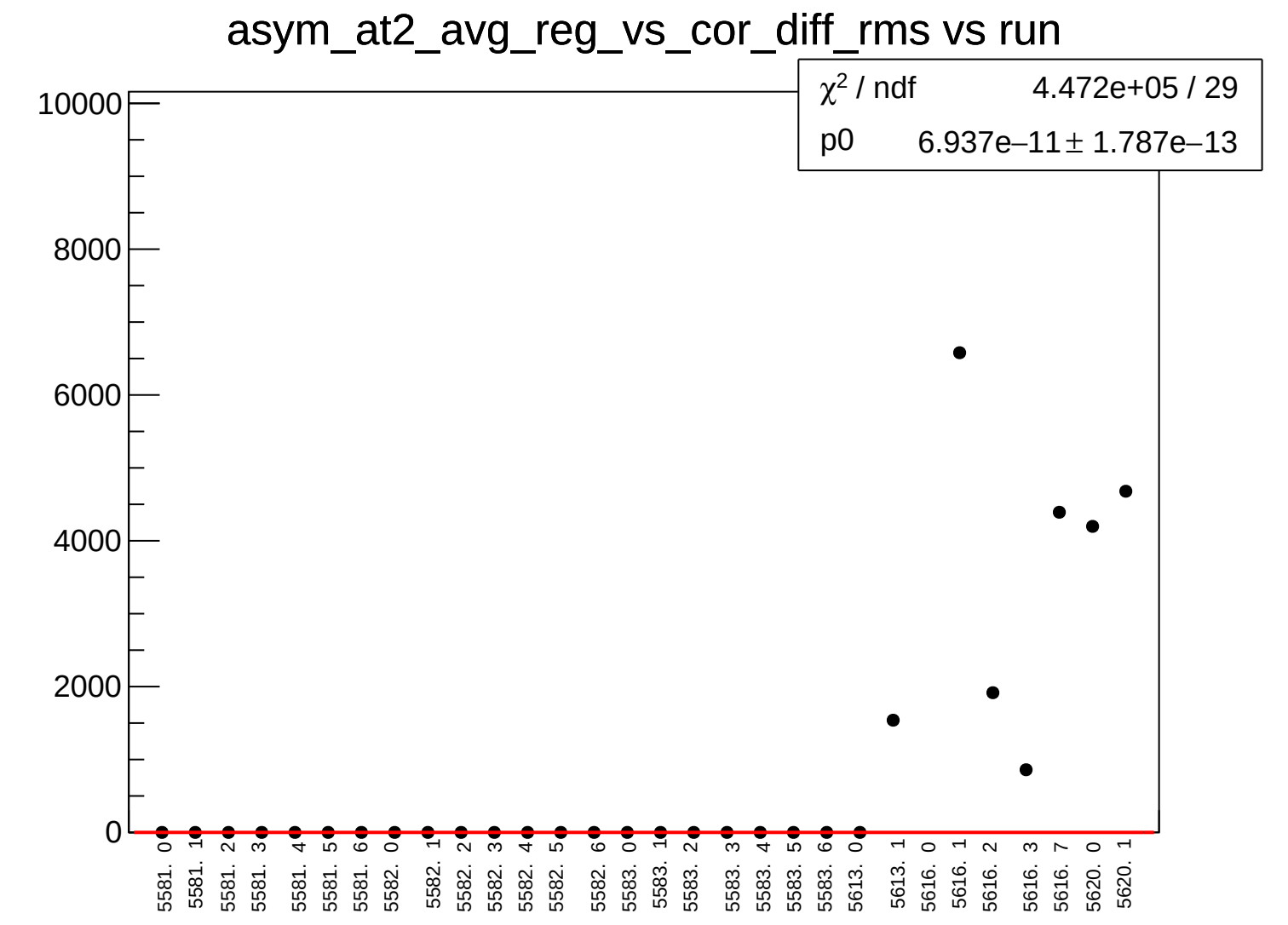

asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 25.67 / 21
p0 −9597 ± 9909
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 67.38
Std Dev 0
3
2
1
0
−1
−2

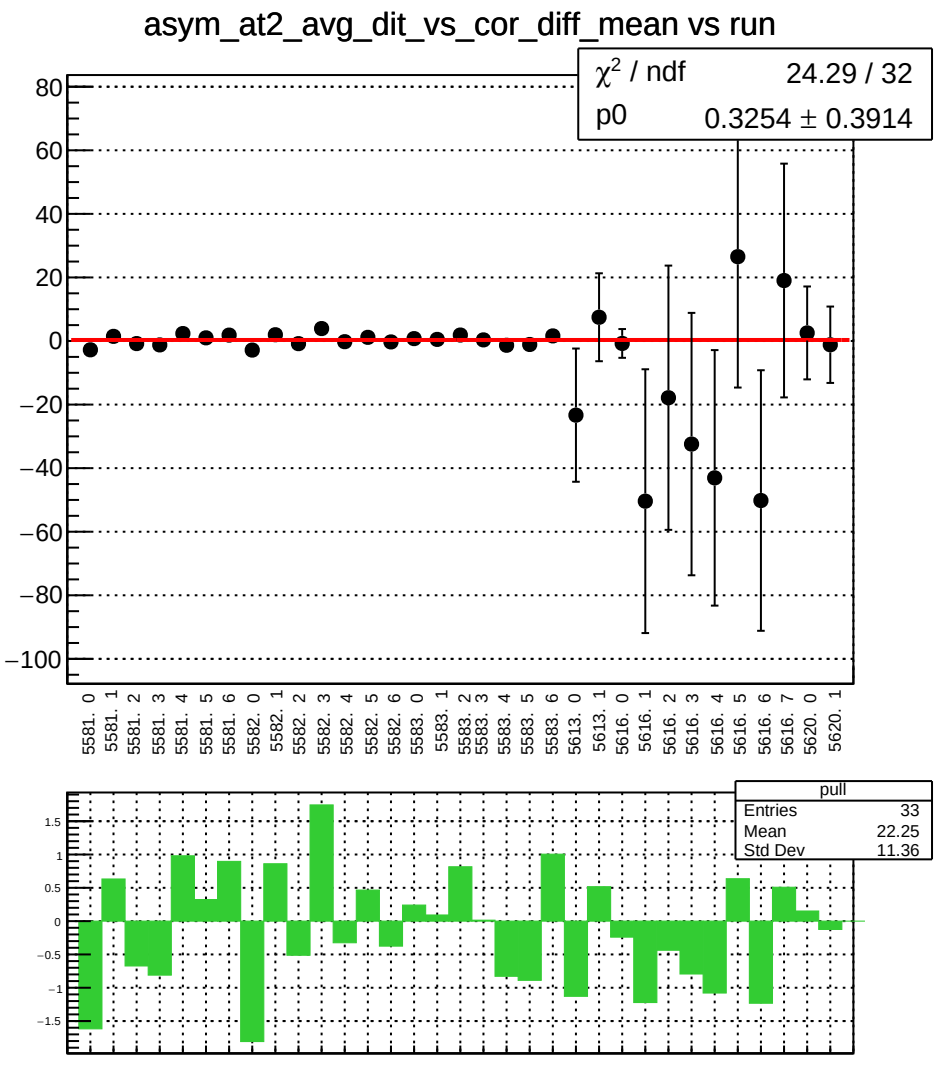

pull1D
Entries 22
Mean 0.0217
Std Dev 1.08
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

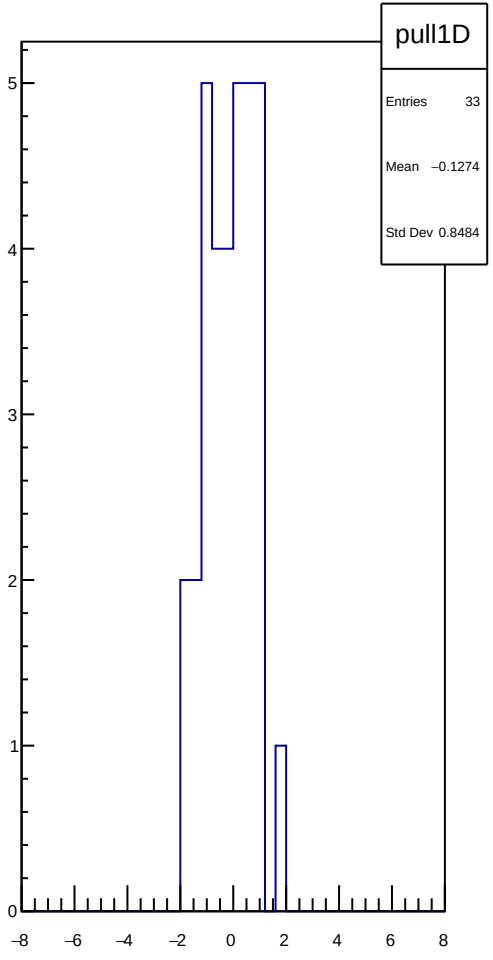

asym_at2_avg_rms vs run
×10^3
300
250
200
150
100
50
χ² / ndf 1.6e+05 / 29
p0 4633 ± 7.001
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

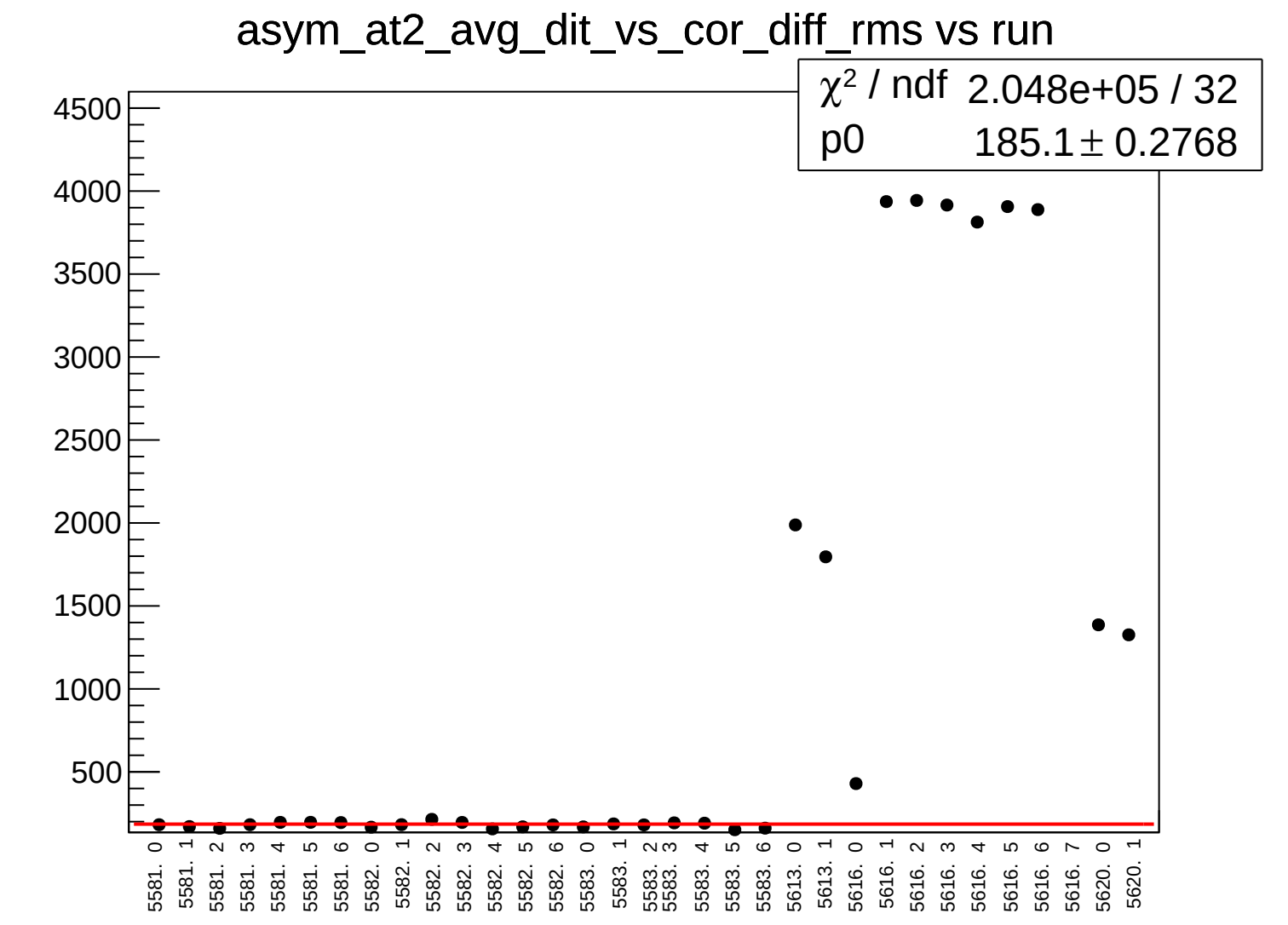

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 19.35 / 29
p0 1.982e−13 ± 2.527e−13
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean 80.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

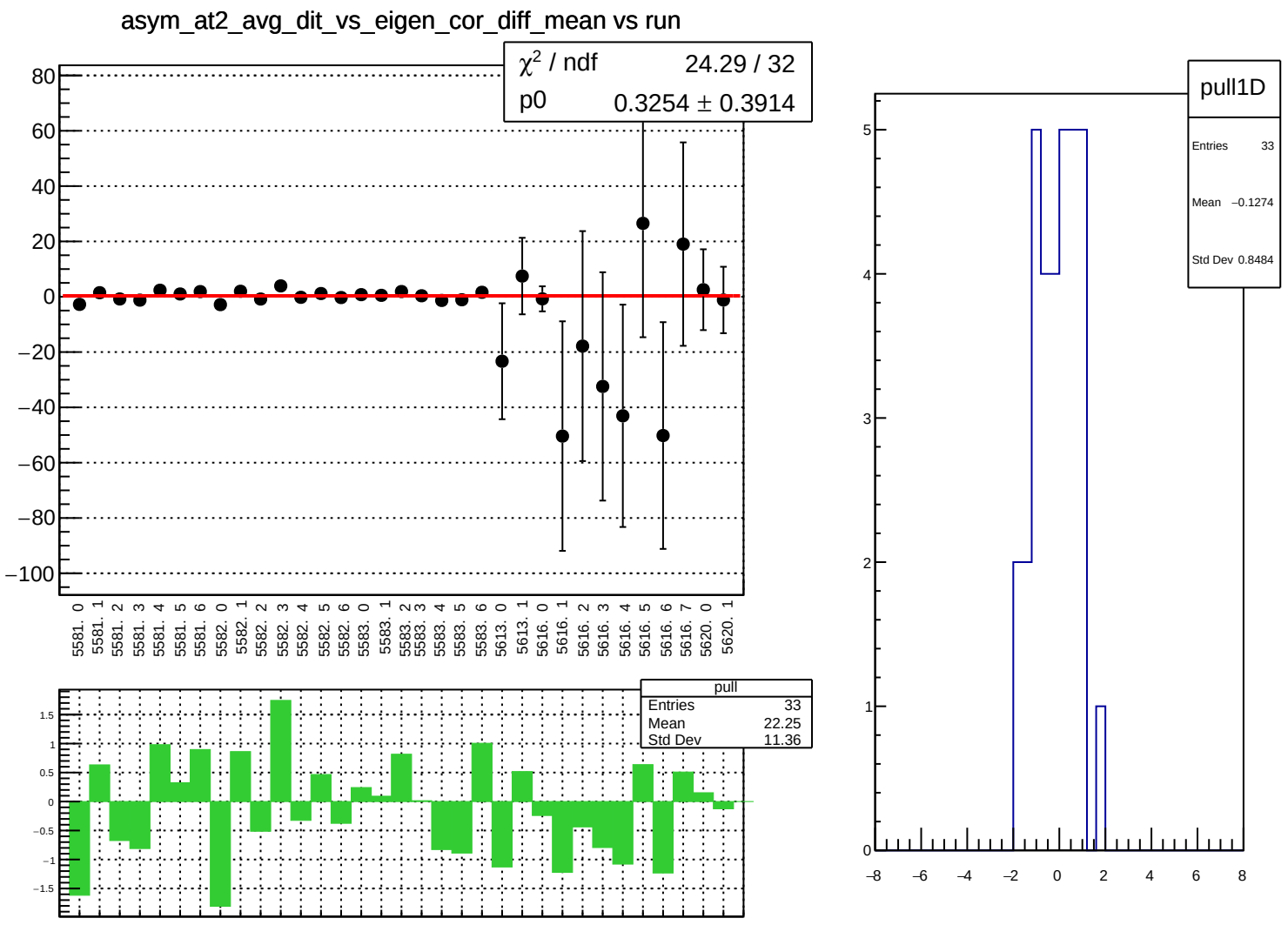

pull1D
Entries 30
Mean 0.03831
Std Dev 0.8023
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

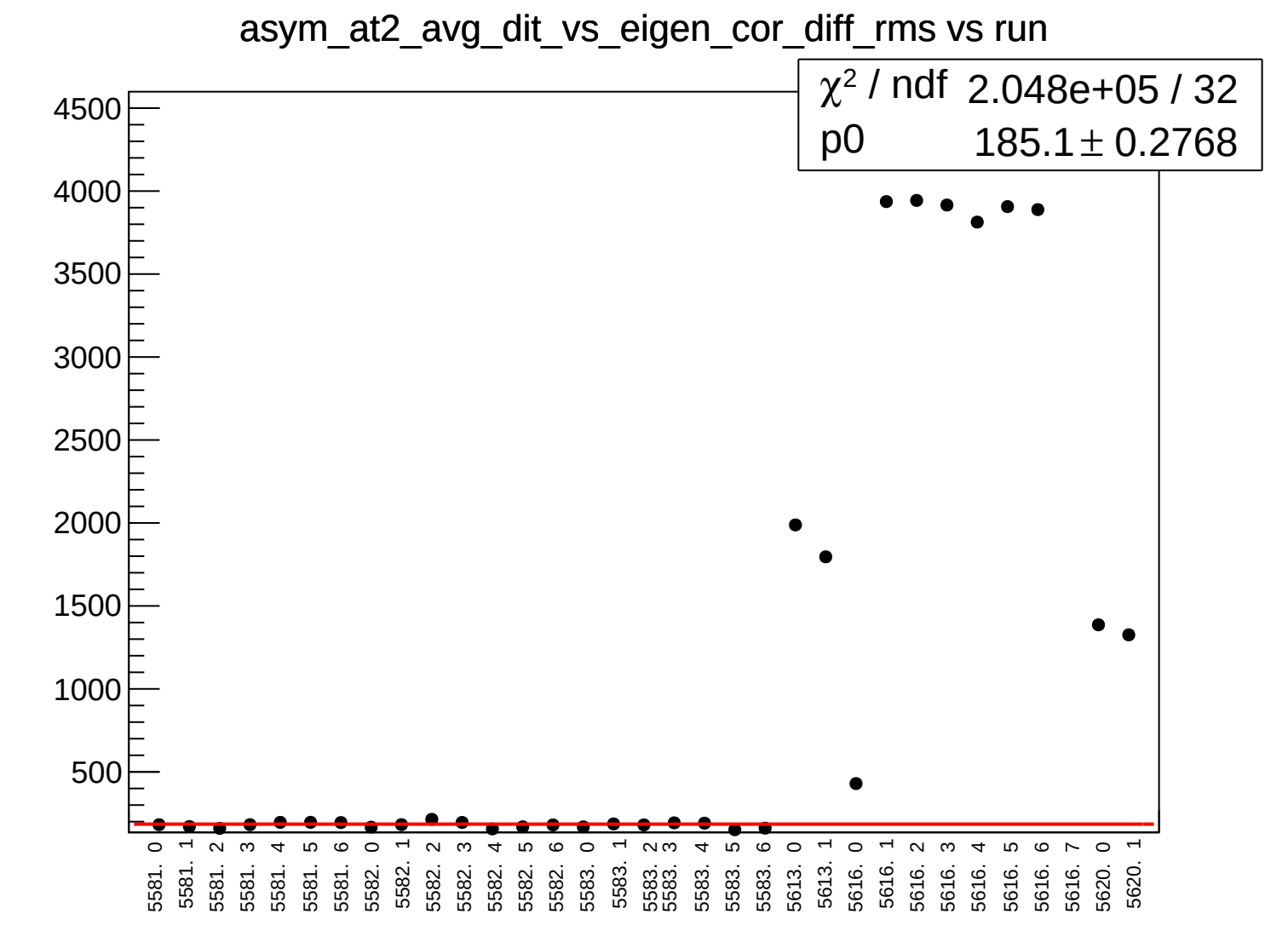

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.472e+05 / 29
p0 6.937e−11 ± 1.787e−13
10000
8000
6000
4000
2000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

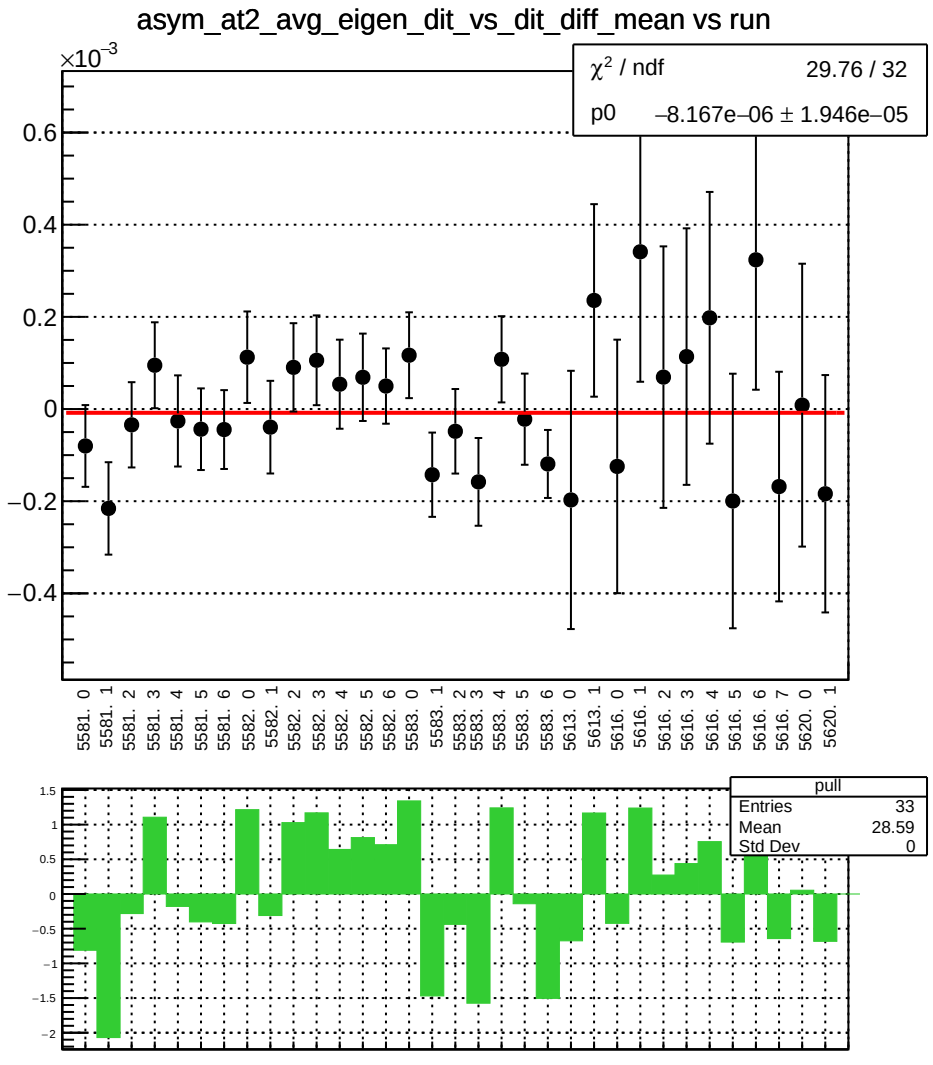

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 24.29 / 32
p0 0.3254 ± 0.3914
pull
Entries 33
Mean 22.25
Std Dev 11.36

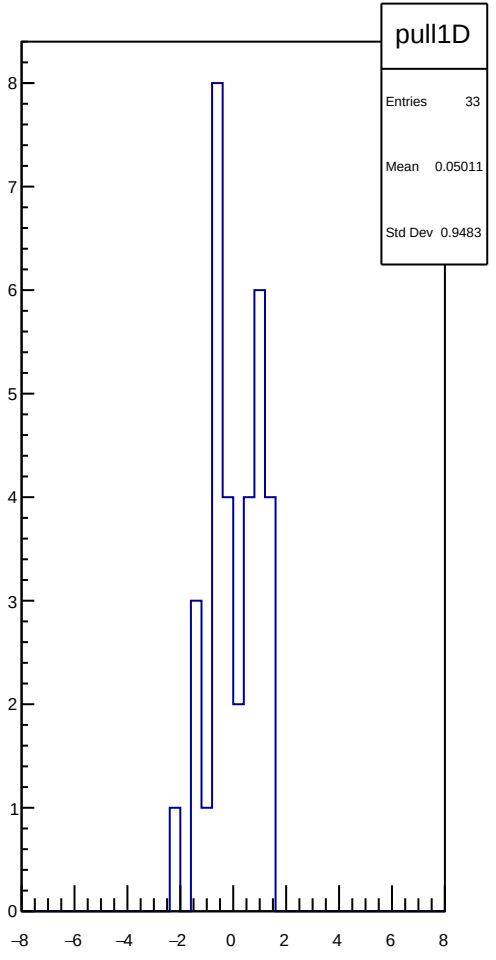

pull1D
Entries 33
Mean −0.1274
Std Dev 0.8484

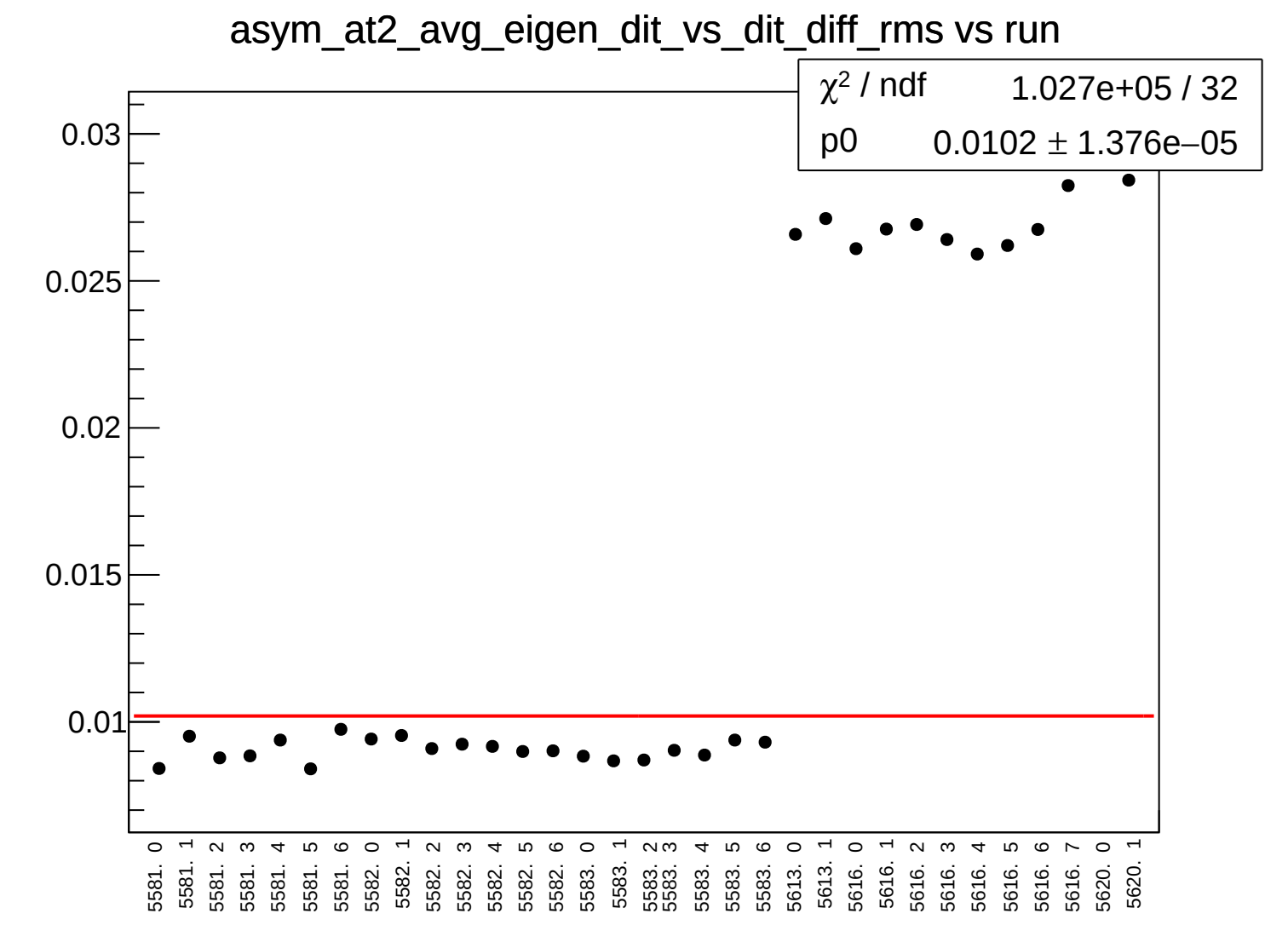

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.048e+05 / 32
p0 185.1 ± 0.2768
4500
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

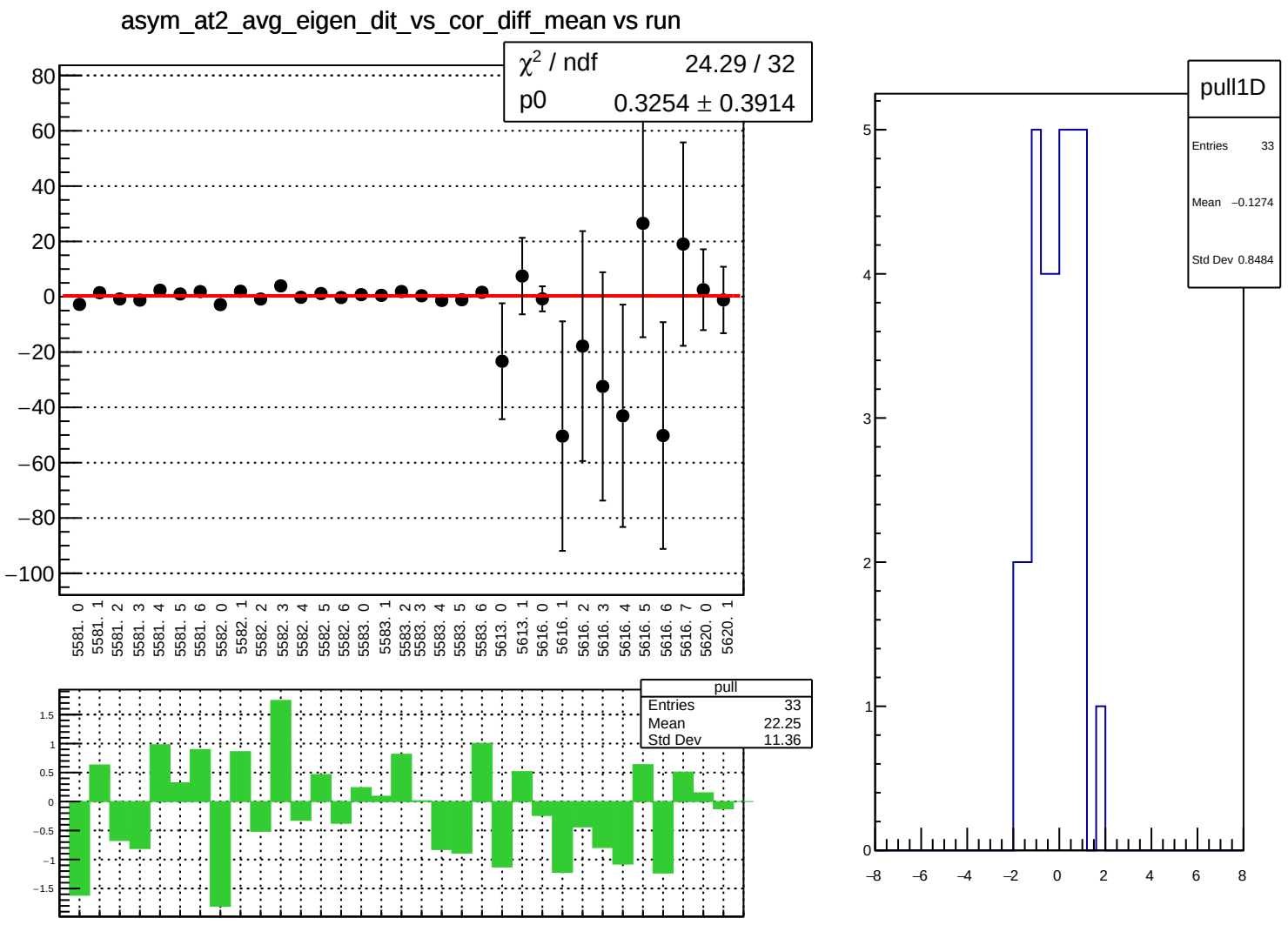

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.29 / 32
p0 0.3254 ± 0.3914
pull
Entries 33
Mean 22.25
Std Dev 11.36
pull1D
Entries 33
Mean −0.1274
Std Dev 0.8484

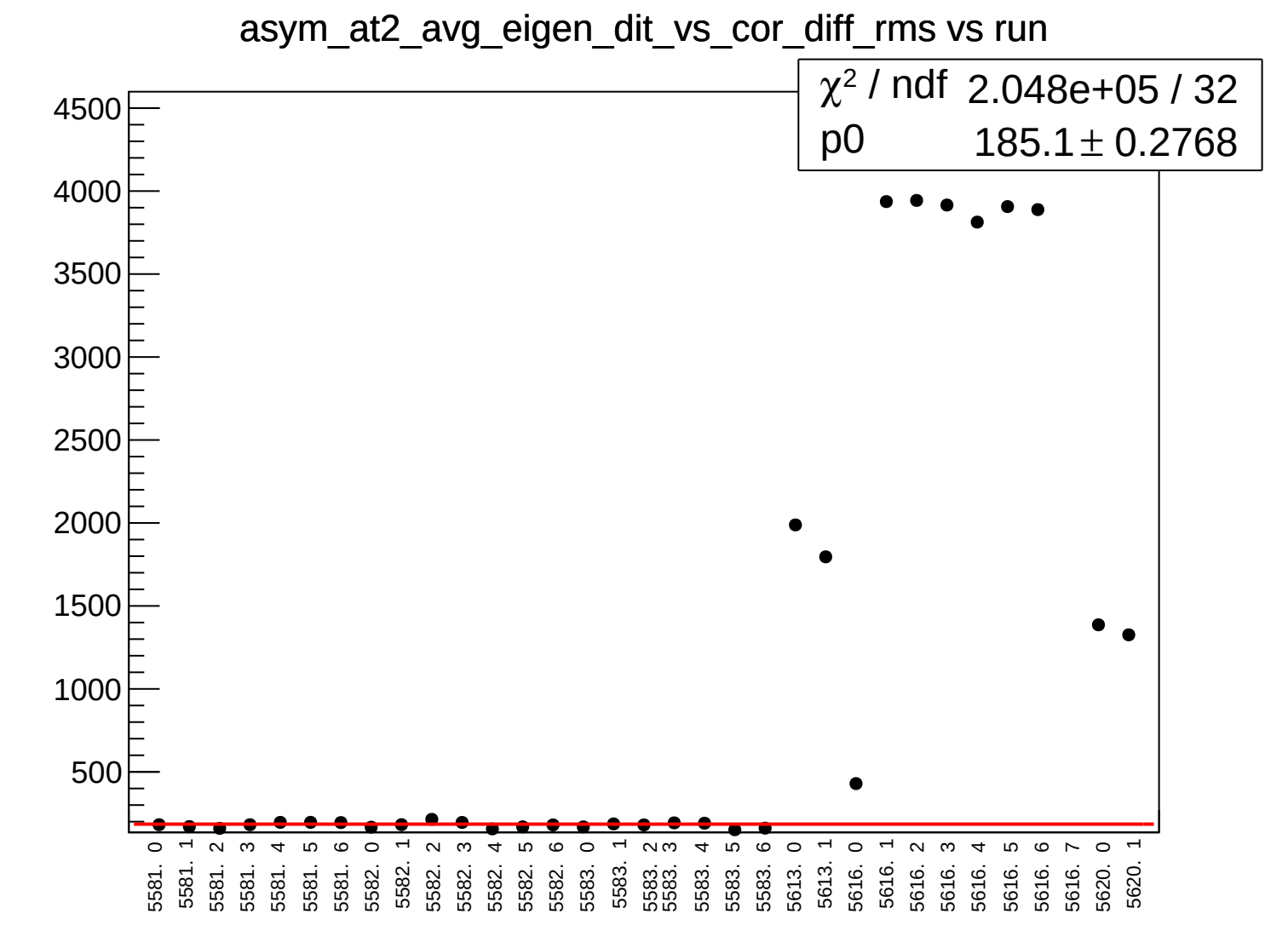

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.048e+05 / 32
p0 185.1 ± 0.2768
4500
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

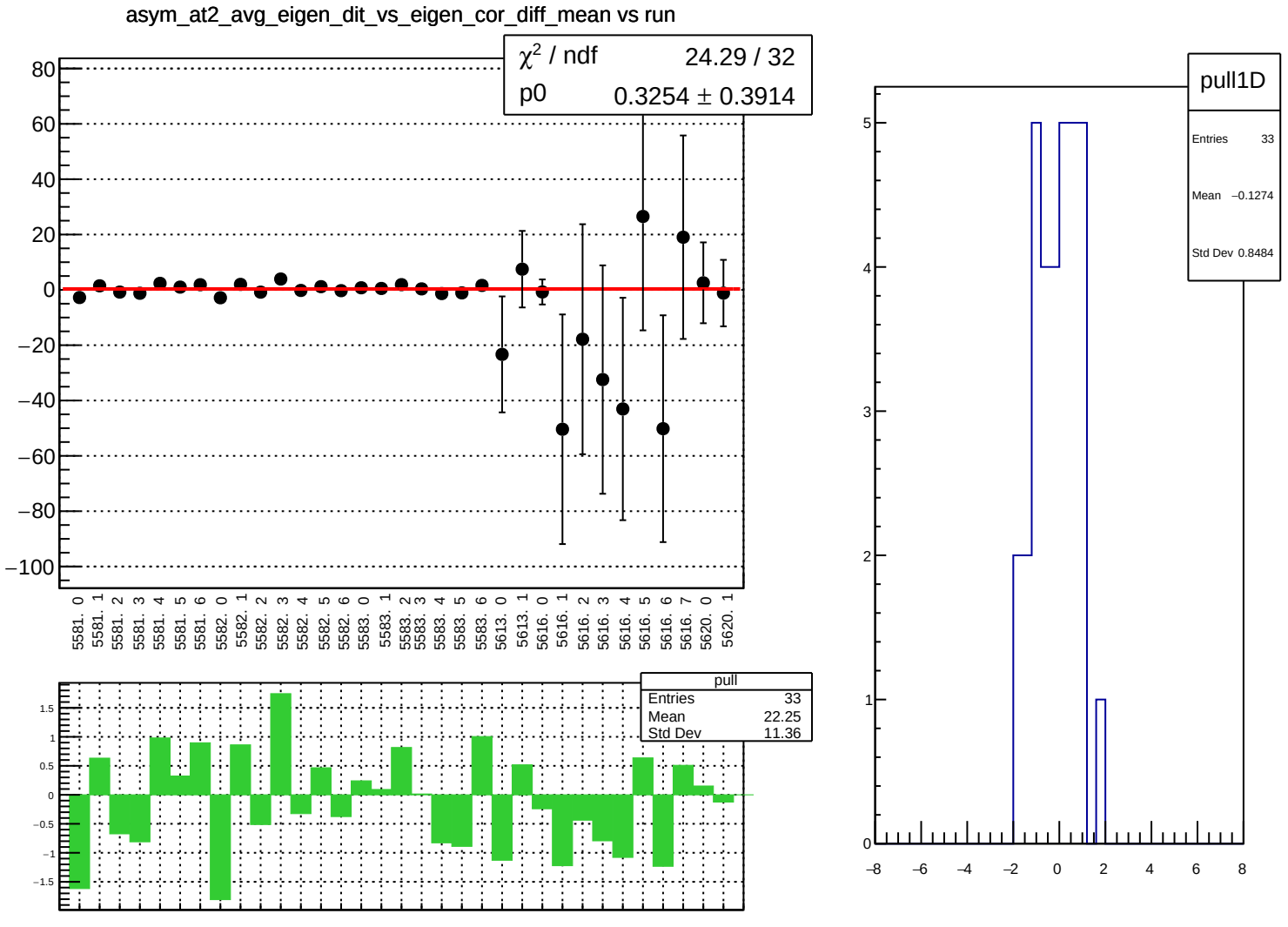

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 29.76 / 32
p0 −8.167e−06 ± 1.946e−05
0.6
0.4
0.2
0
−0.2
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

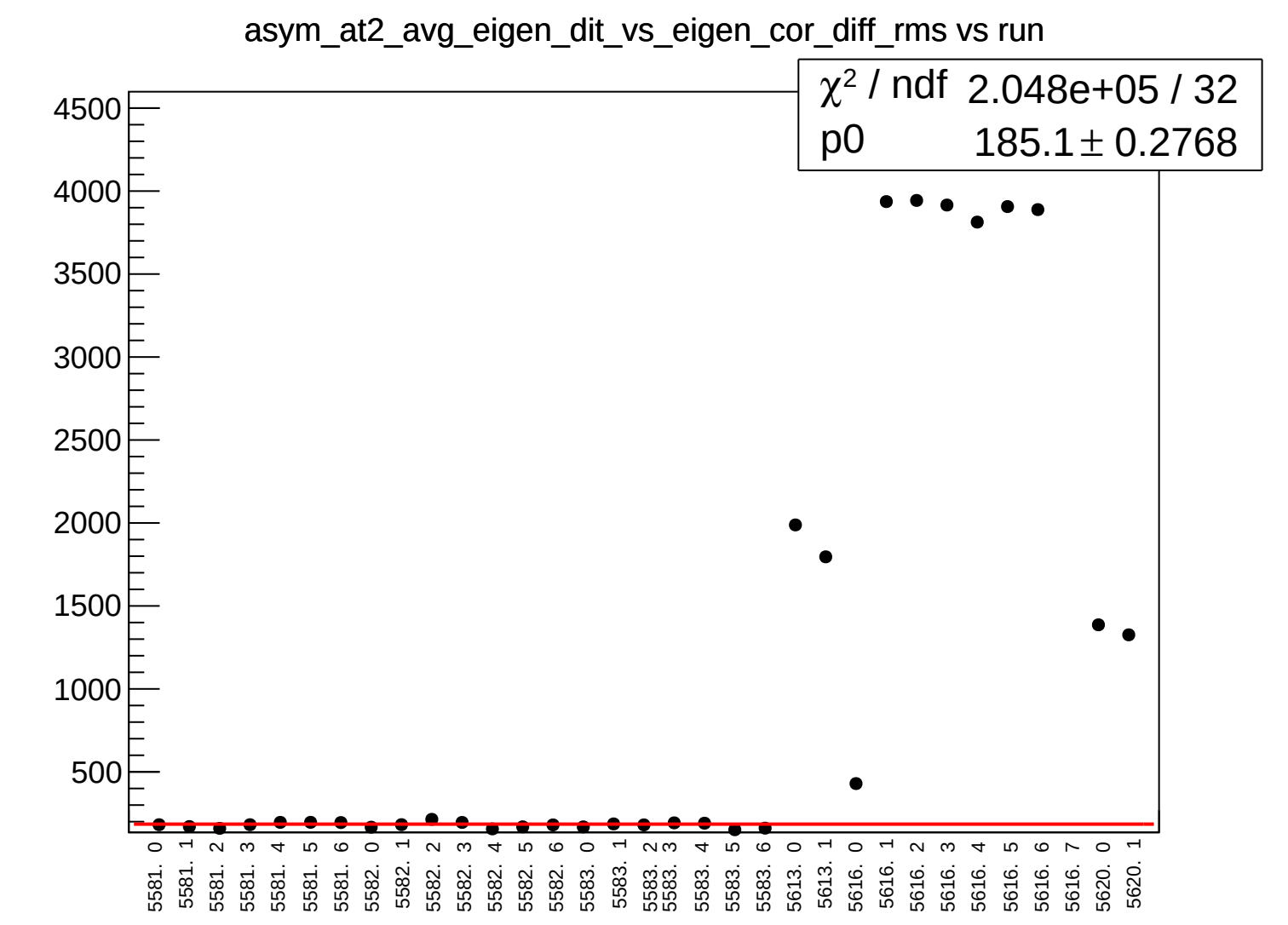

pull1D
Entries 33
Mean 0.05011
Std Dev 0.9483
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

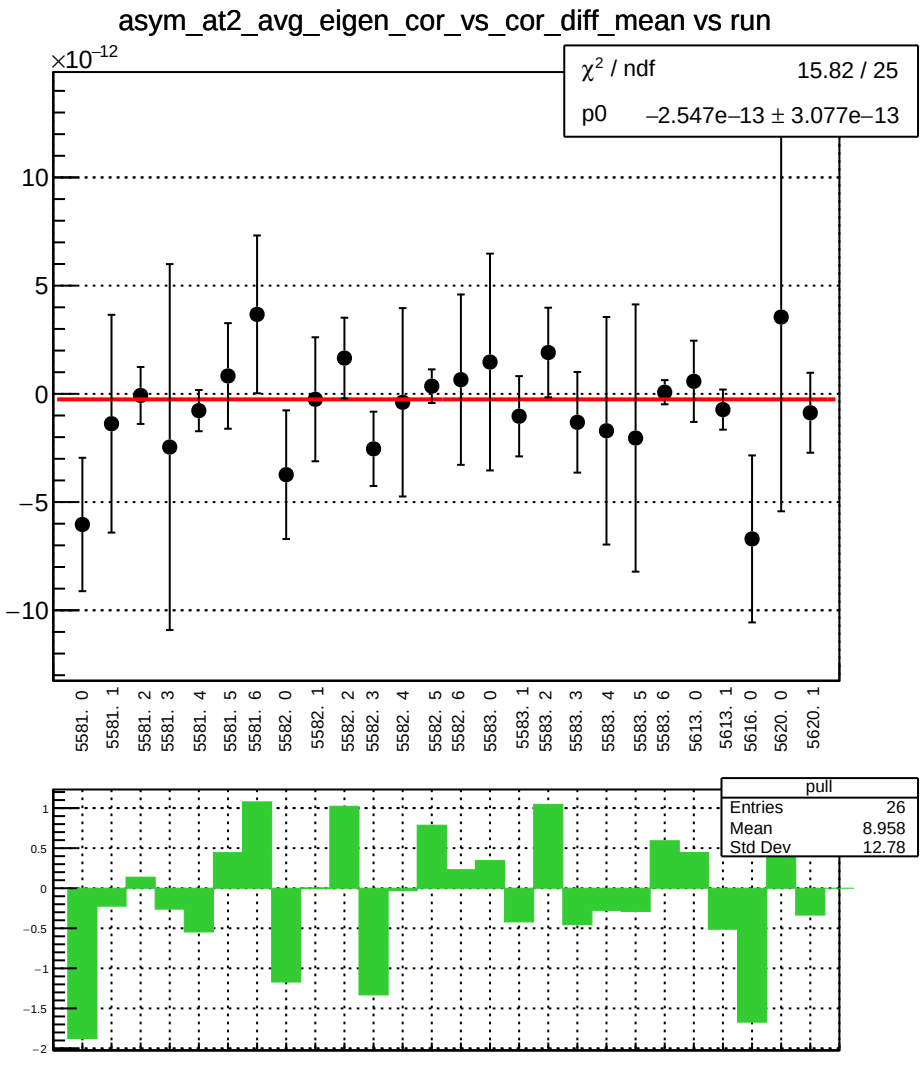

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.027e+05 / 32
p0 0.0102 ± 1.376e−05
0.03
0.025
0.02
0.015
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

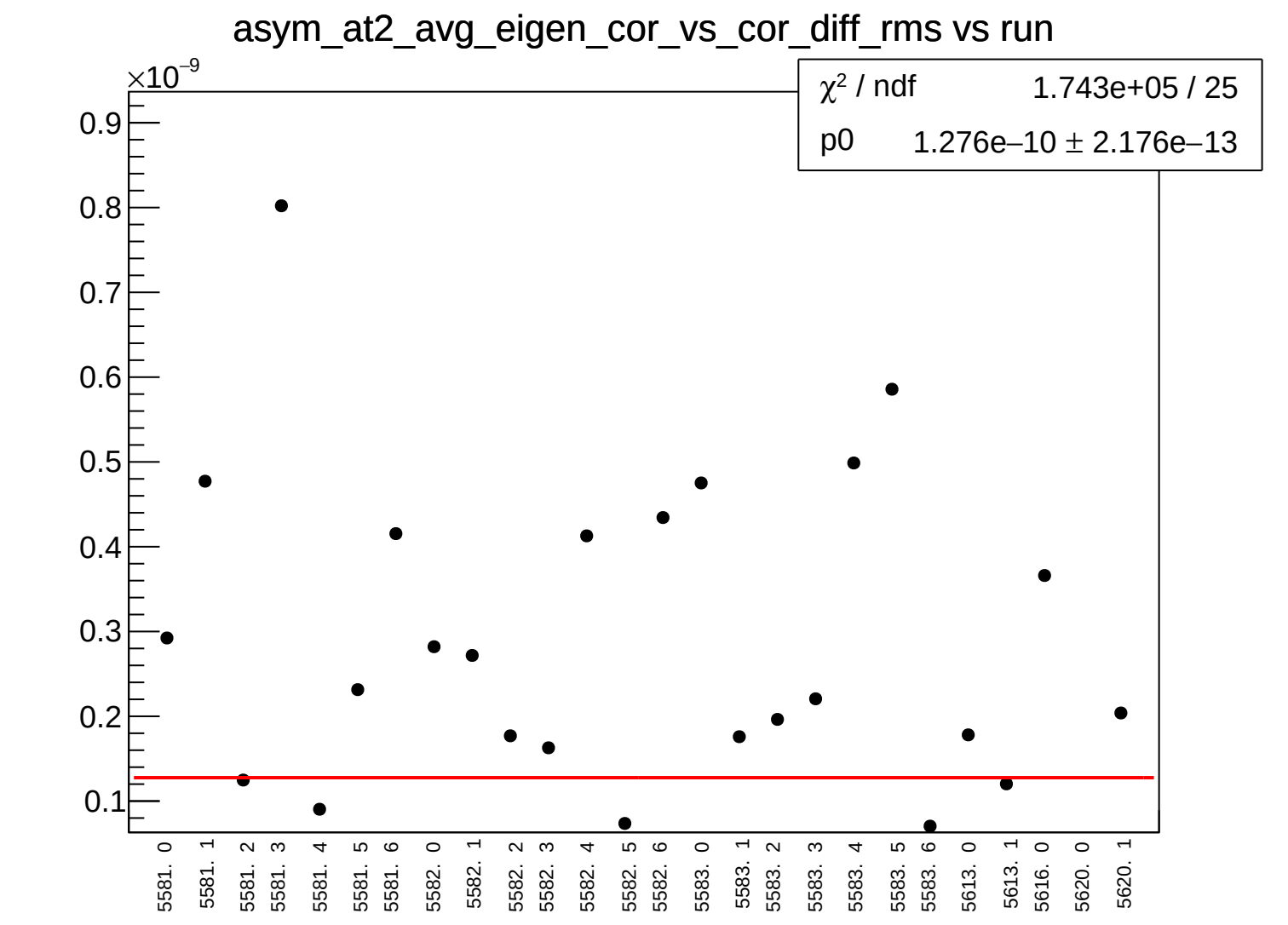

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.29 / 32
p0 0.3254 ± 0.3914
pull
Entries 33
Mean 22.25
Std Dev 11.36
pull1D
Entries 33
Mean −0.1274
Std Dev 0.8484

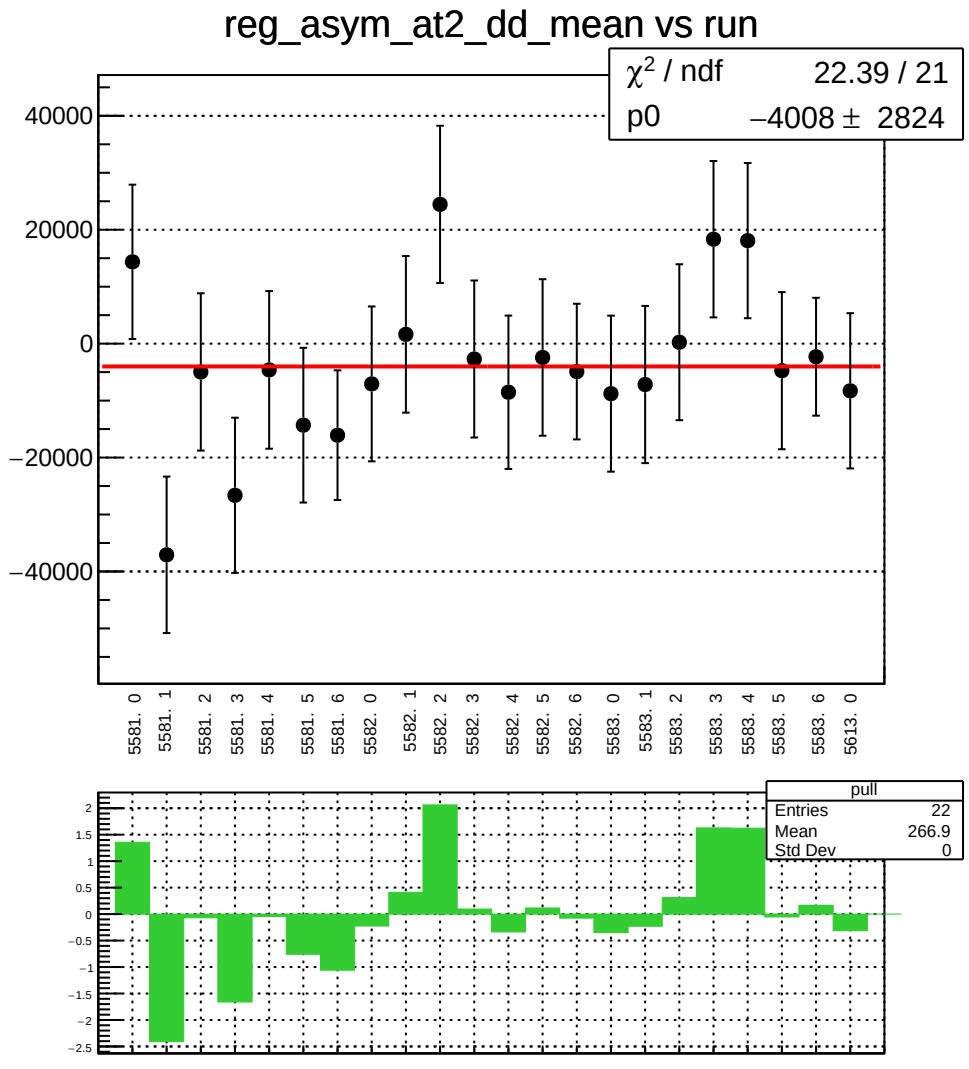

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.048e+05 / 32
p0 185.1 ± 0.2768
4500
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

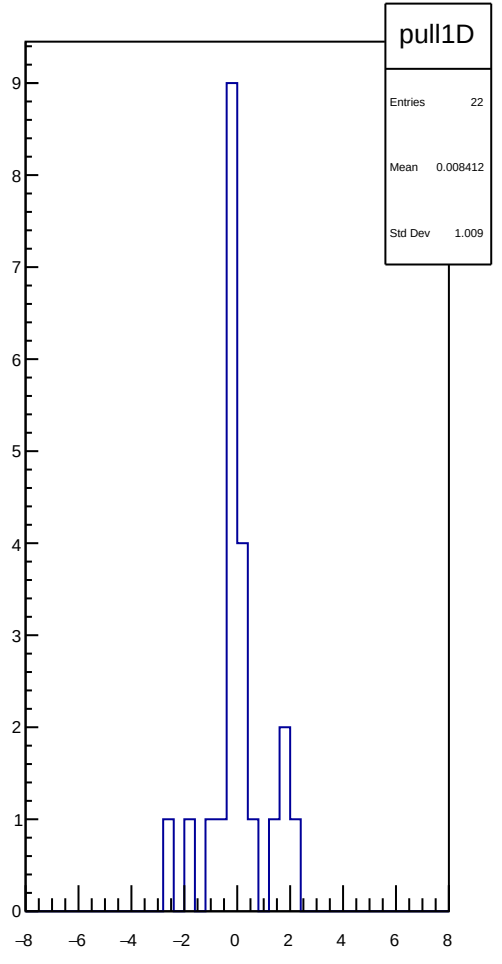

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.29 / 32
p0 0.3254 ± 0.3914
pull
Entries 33
Mean 22.25
Std Dev 11.36
pull1D
Entries 33
Mean −0.1274
Std Dev 0.8484

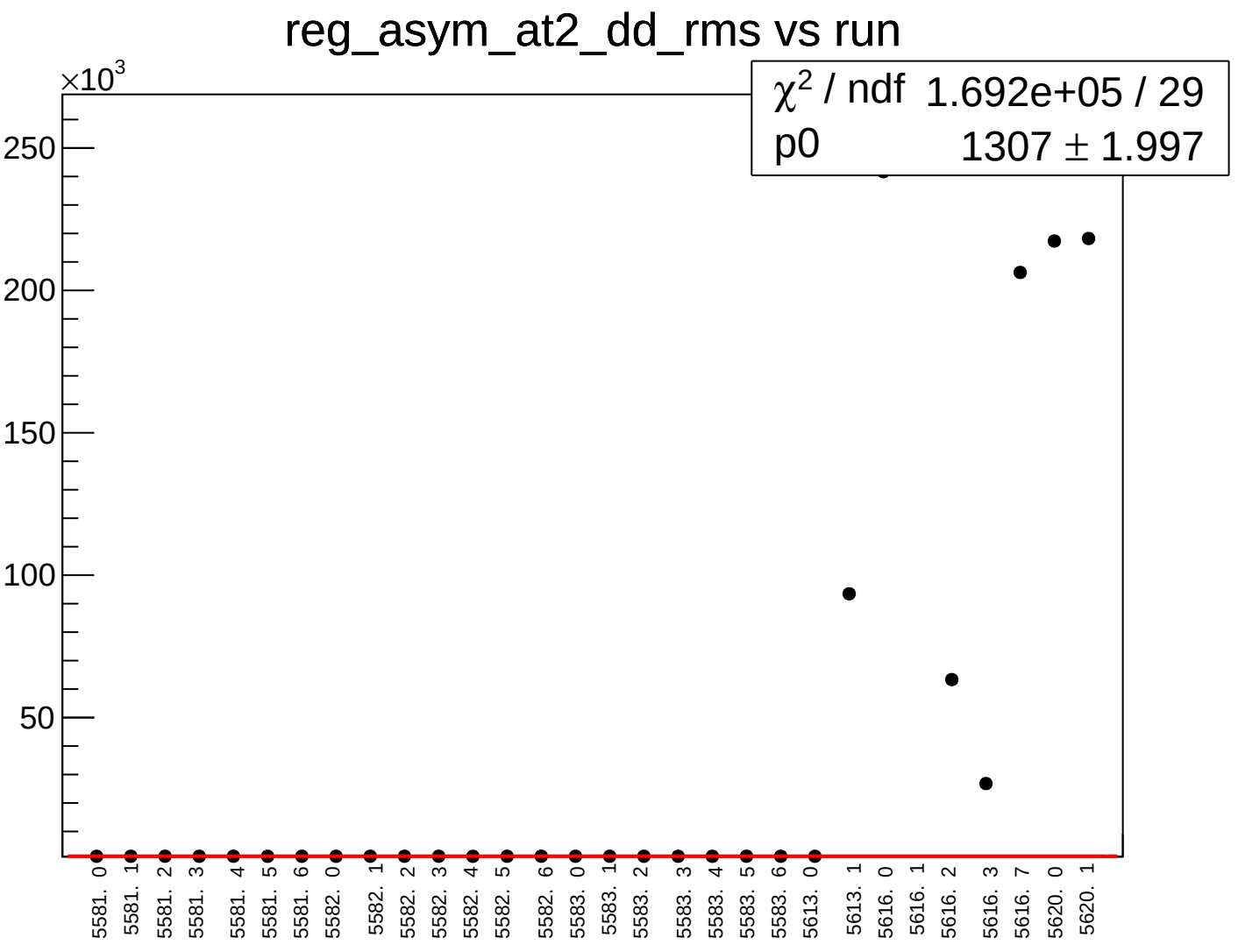

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.048e+05 / 32
p0 185.1 ± 0.2768
4500
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

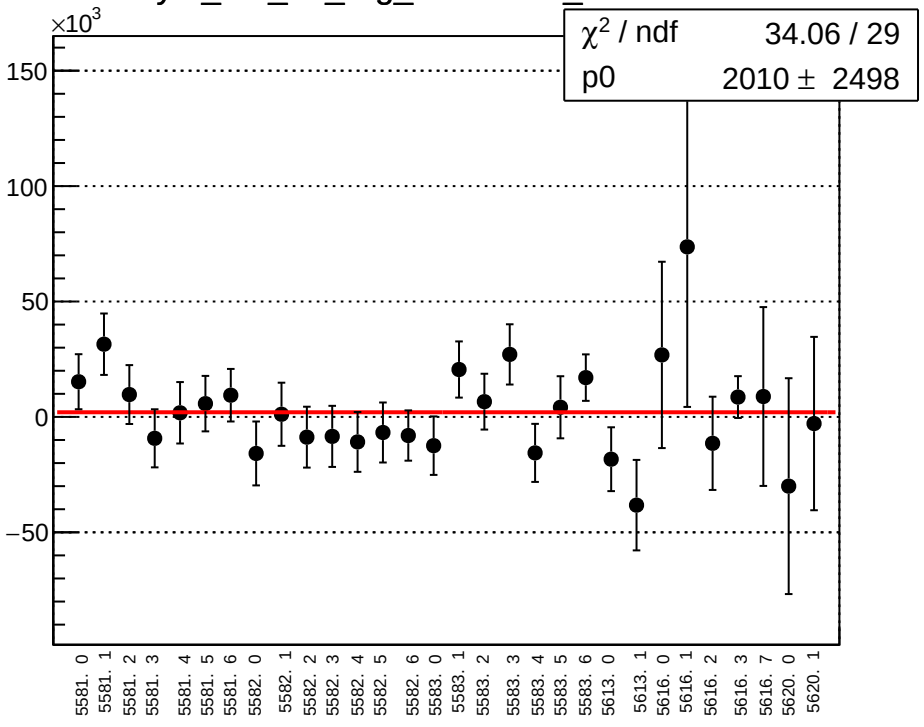

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 15.82 / 25
p0 −2.547e−13 ± 3.077e−13
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 8.958
Std Dev 12.78
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.1094
Std Dev 0.7724
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

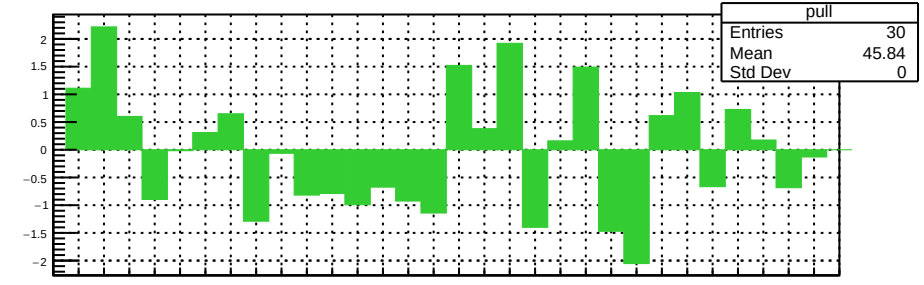

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.743e+05 / 25
p0 1.276e−10 ± 2.176e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

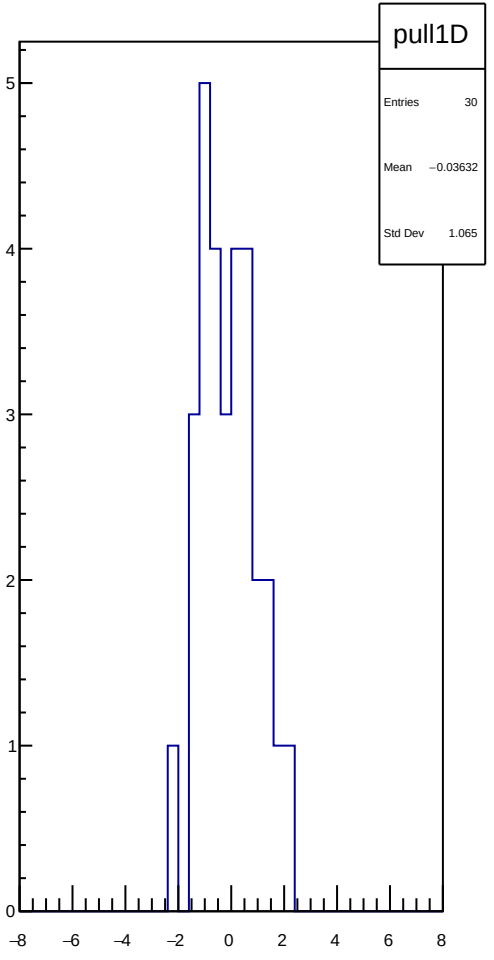

reg_asym_at2_dd_mean vs run
χ² / ndf 22.39 / 21
p0 −4008 ± 2824
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 266.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

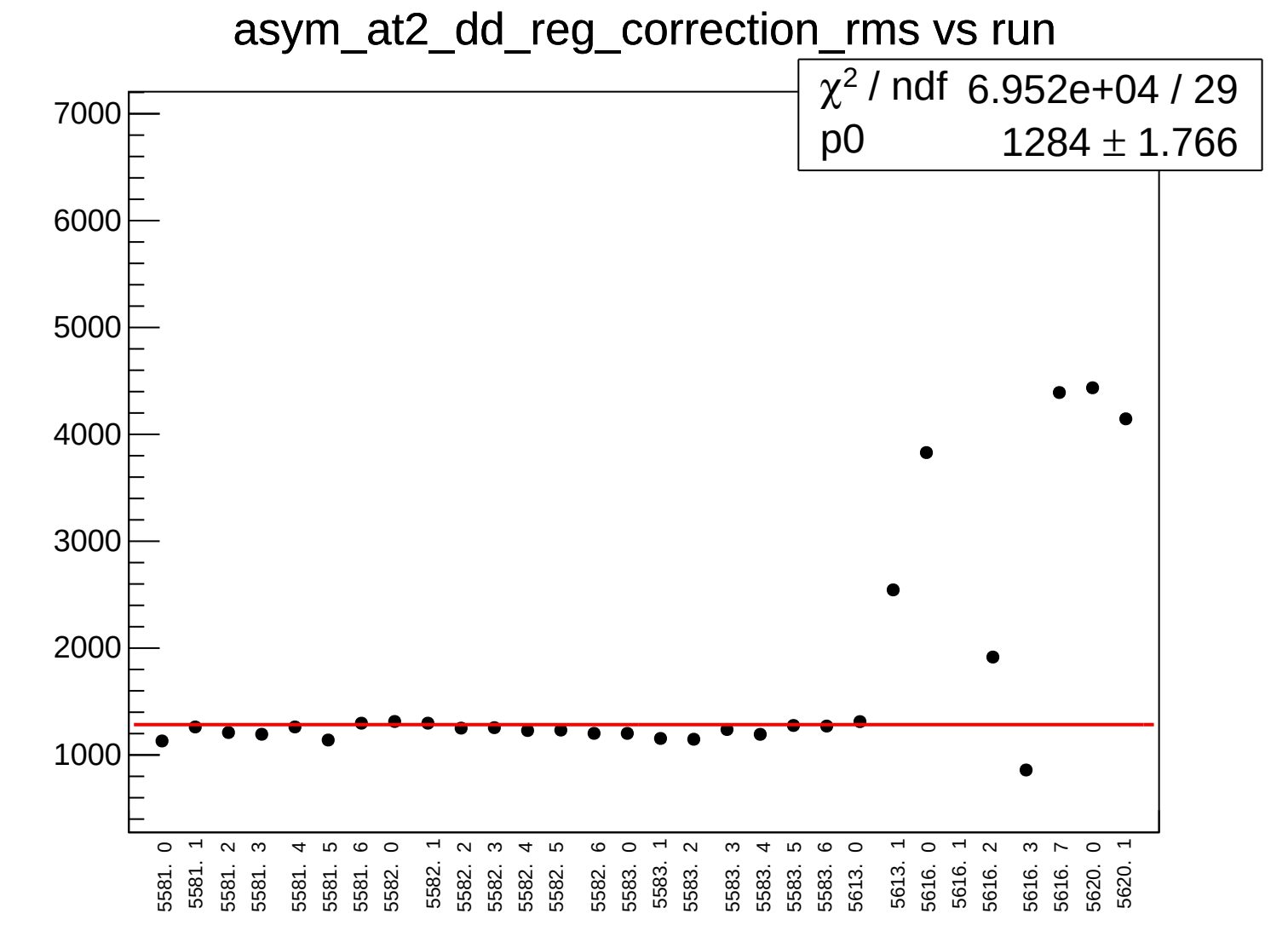

pull1D
Entries 22
Mean 0.008412
Std Dev 1.009
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

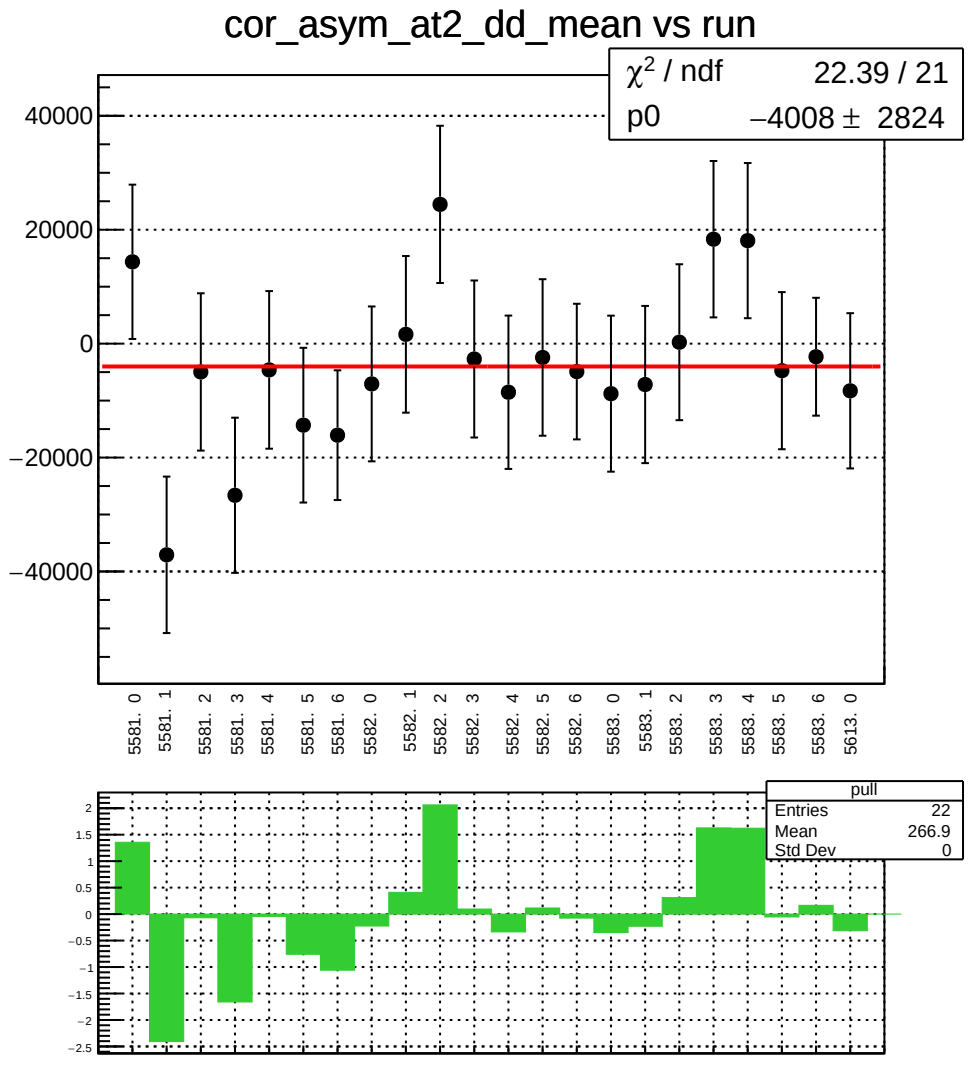

reg_asym_at2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.692e+05 / 29
p0 1307 ± 1.997
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

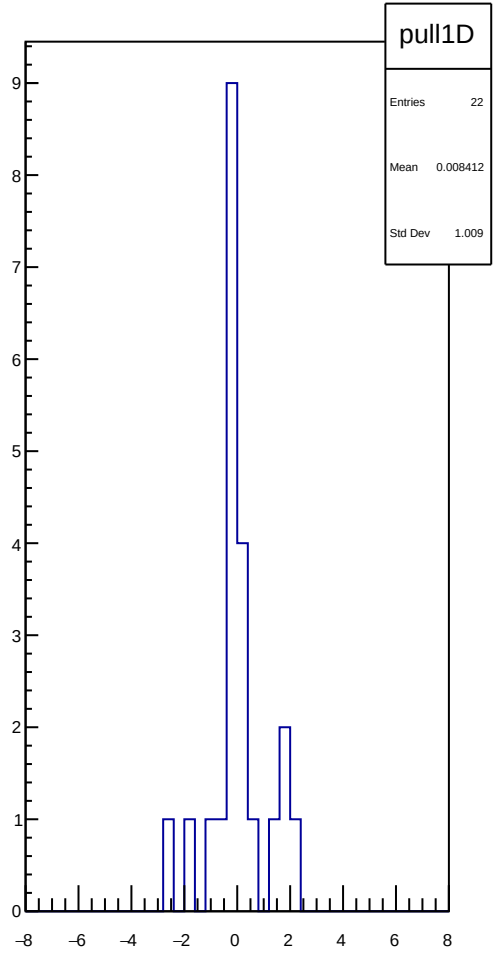

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 34.06 / 29
p0 2010 ± 2498
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

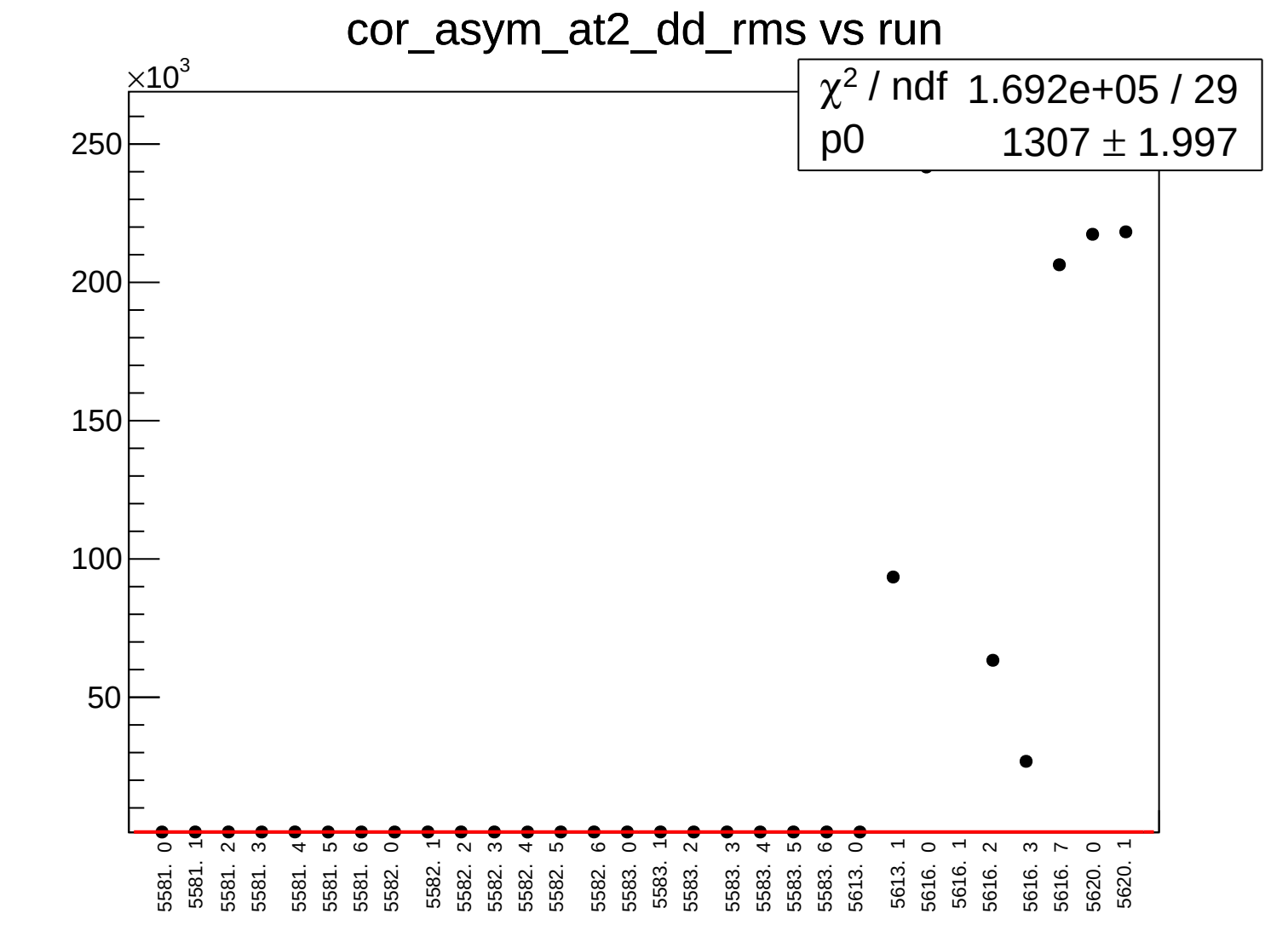

pull
Entries 30
Mean 45.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

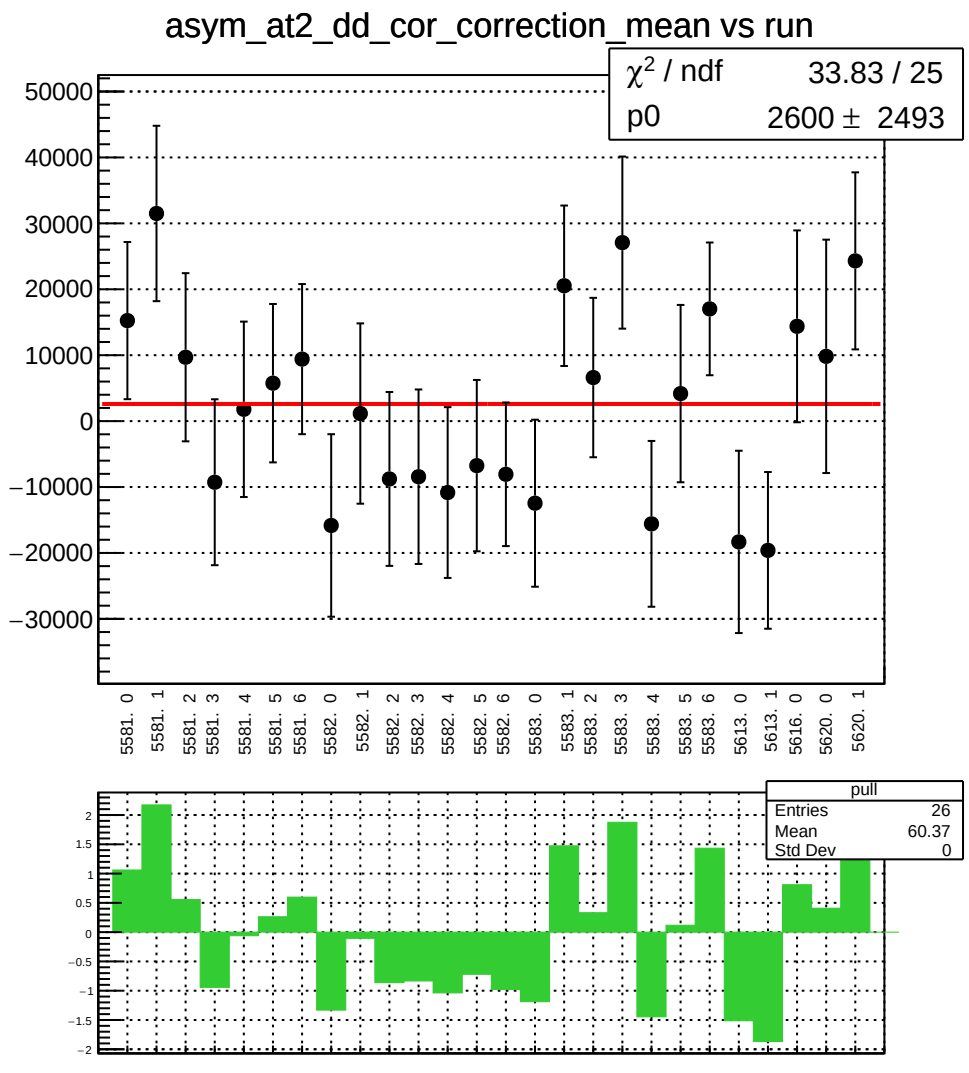

pull1D
Entries 30
Mean −0.03632
Std Dev 1.065
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

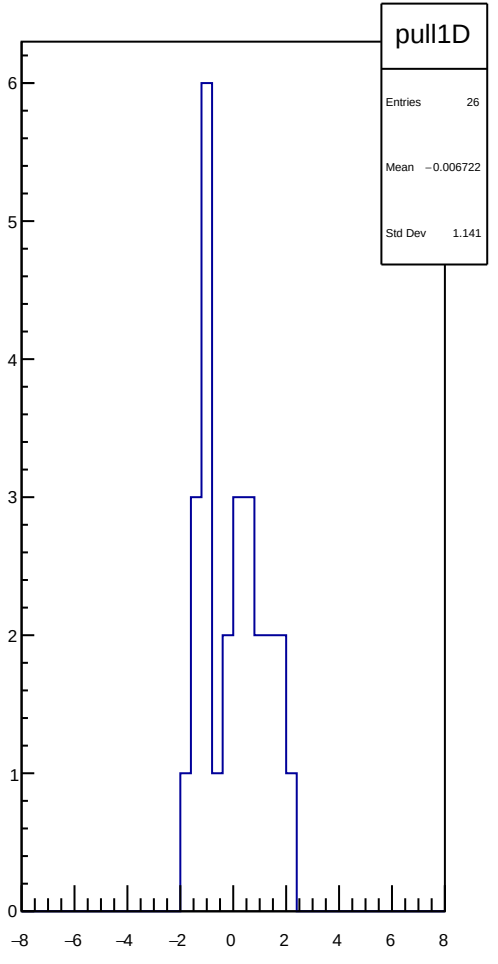

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 6.952e+04 / 29
p0 1284 ± 1.766
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

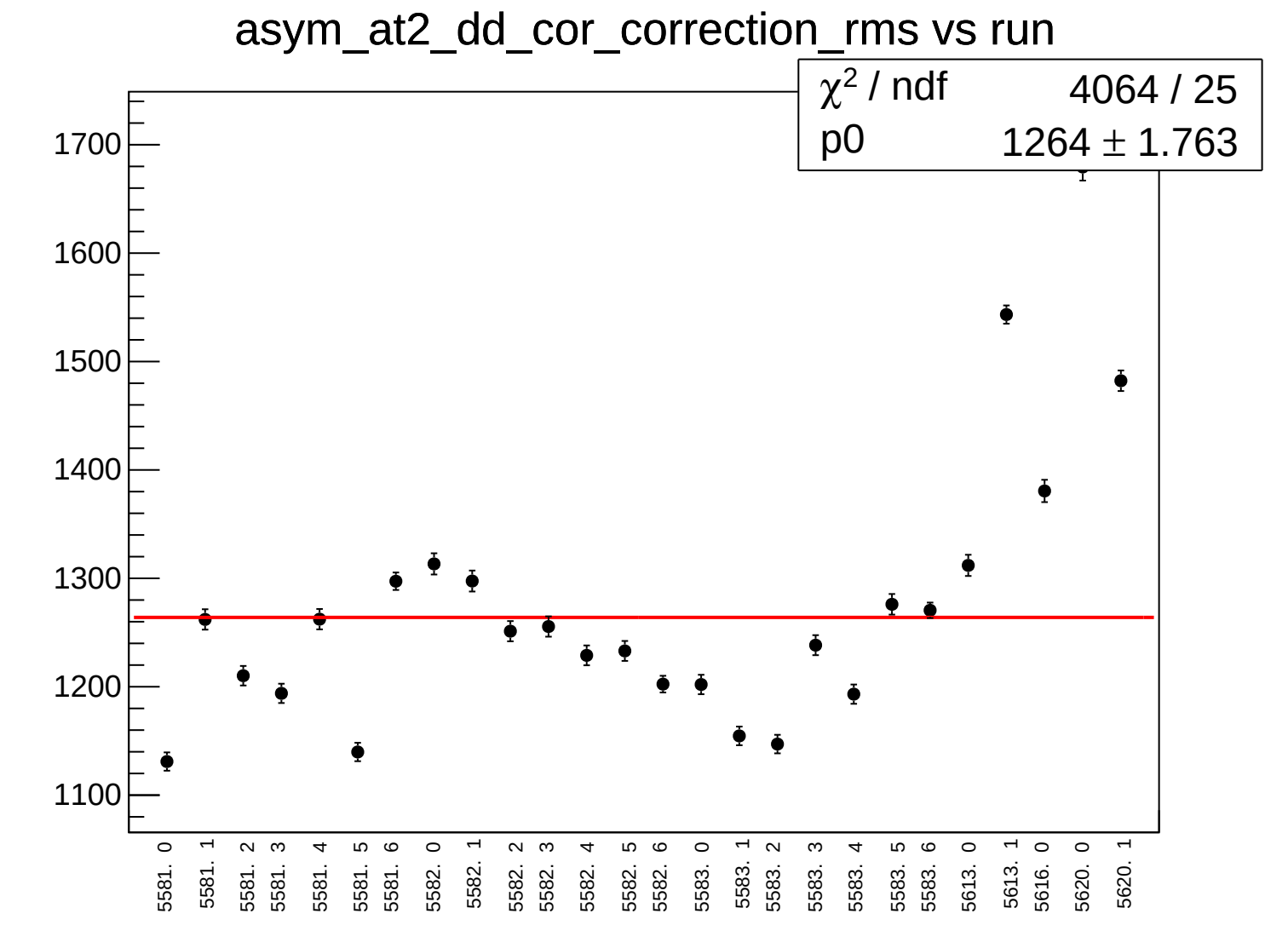

cor_asym_at2_dd_mean vs run
χ² / ndf 22.39 / 21
p0 −4008 ± 2824
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 266.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

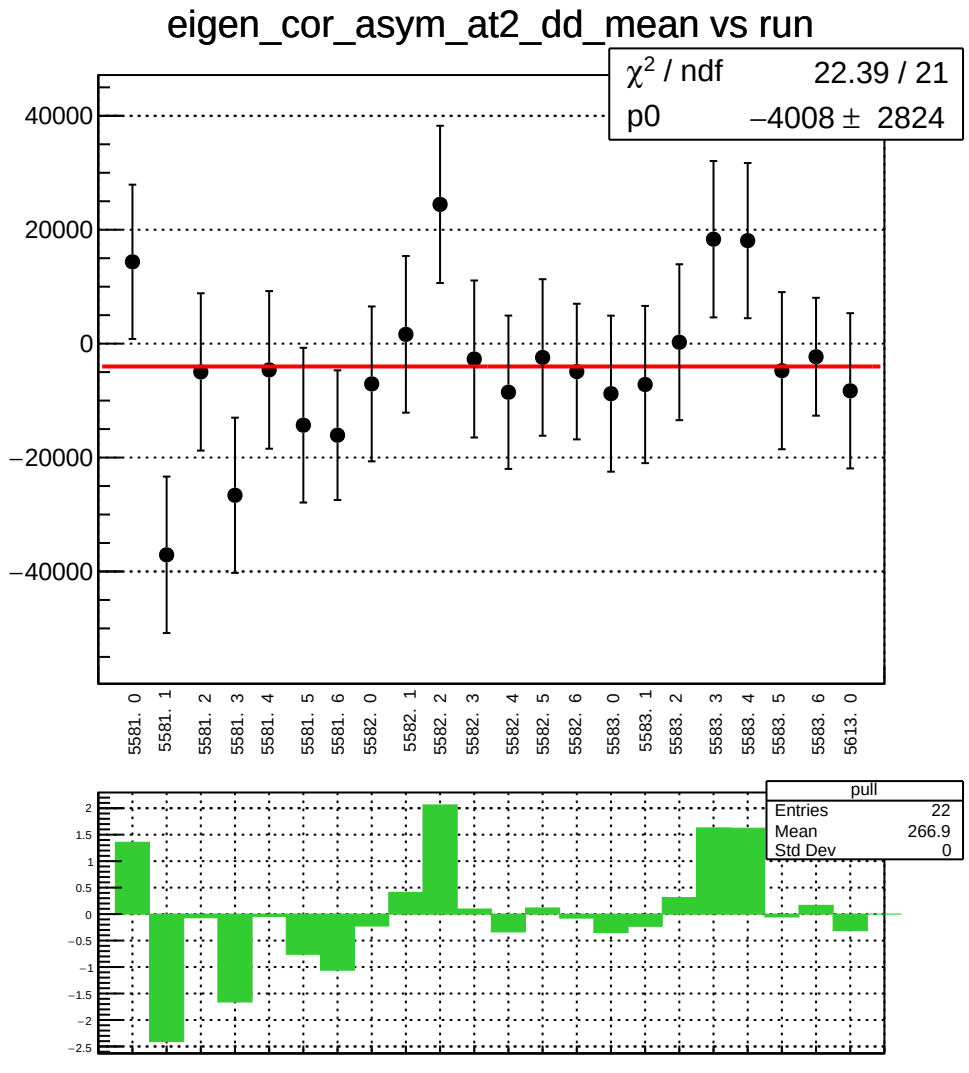

pull1D
Entries 22
Mean 0.008412
Std Dev 1.009
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

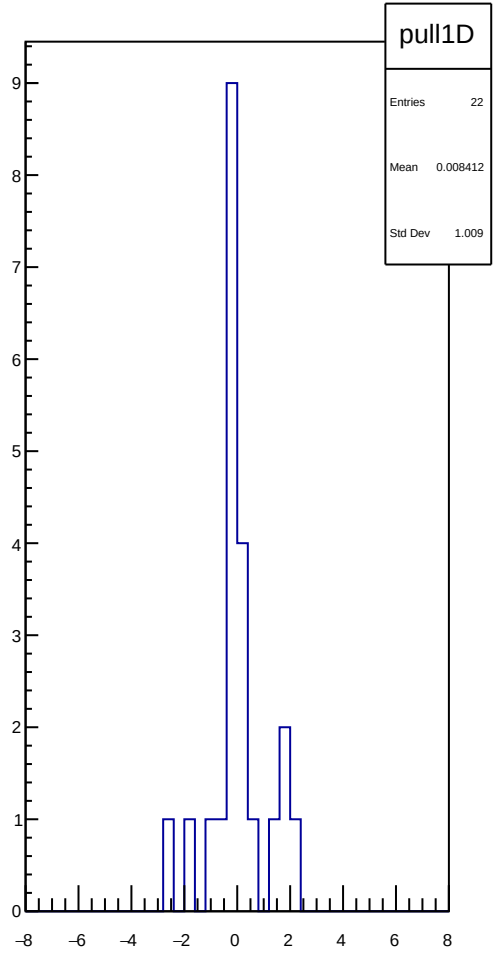

cor_asym_at2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.692e+05 / 29
p0 1307 ± 1.997
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

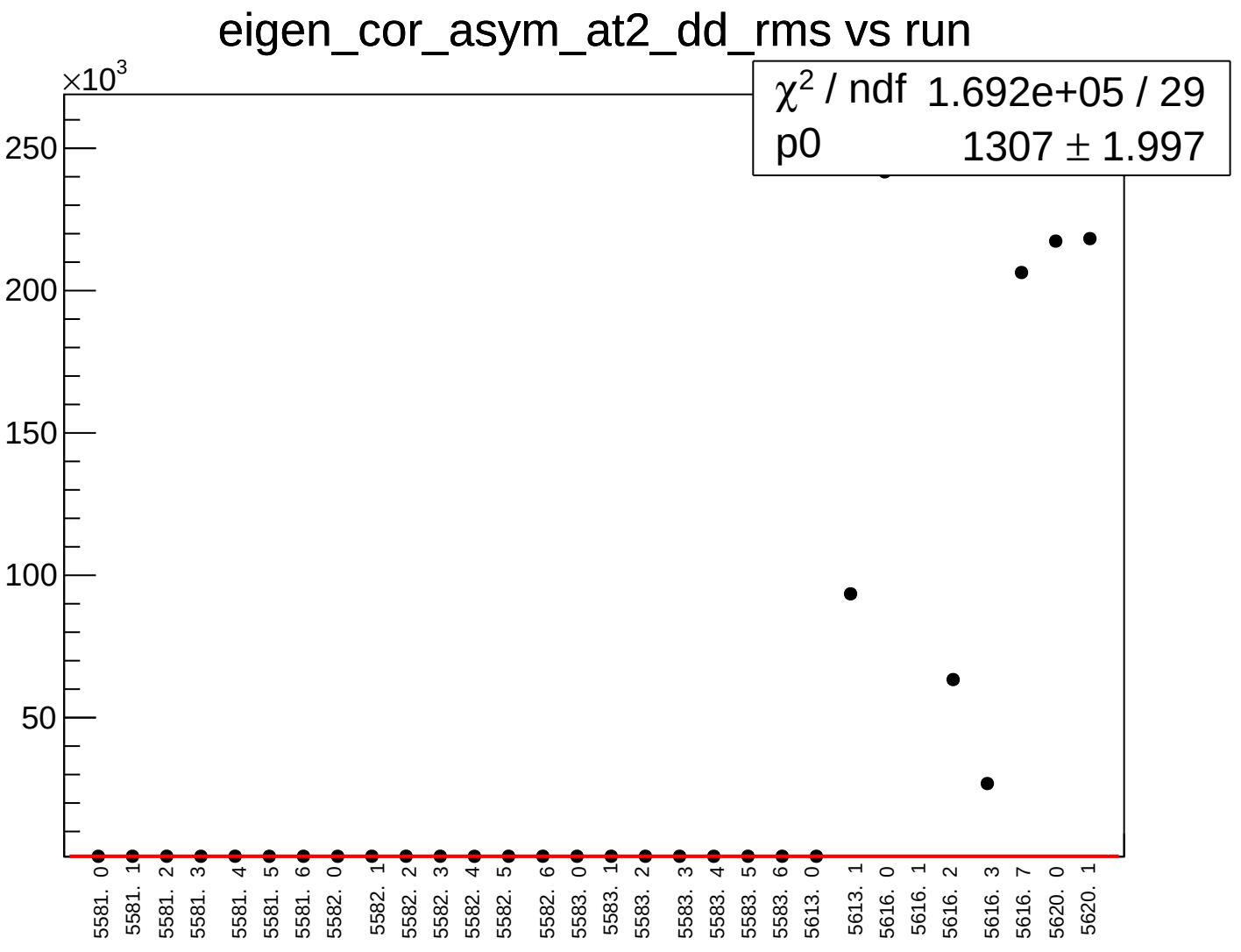

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 33.83 / 25
p0 2600 ± 2493
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 60.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

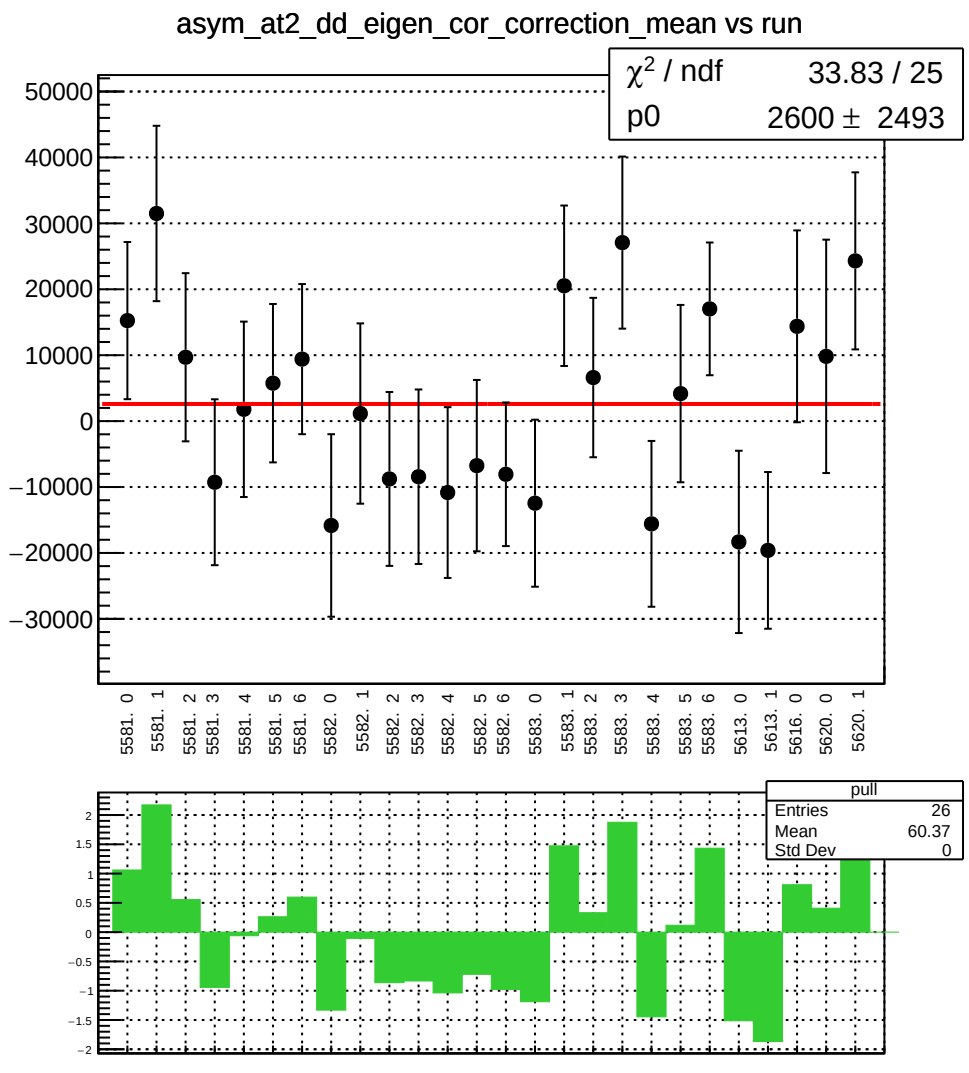

pull1D
Entries 26
Mean −0.006722
Std Dev 1.141
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

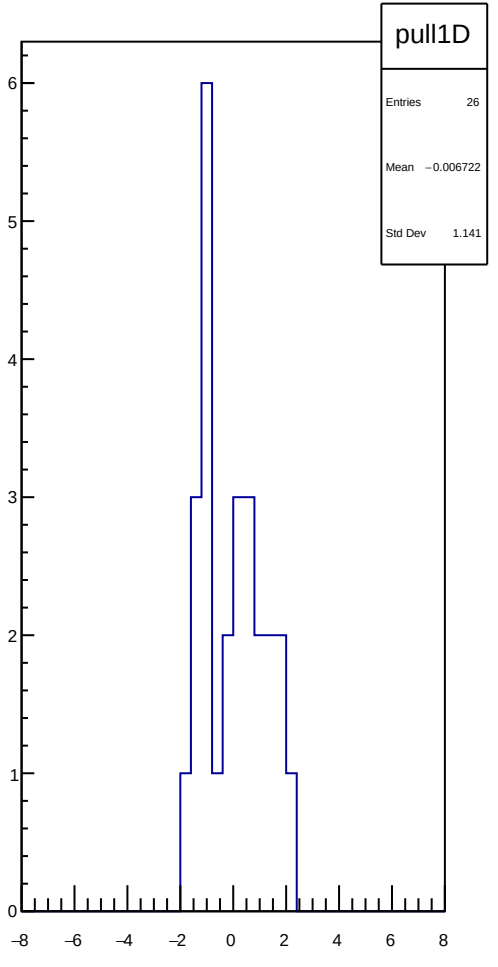

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 4064 / 25
p0 1264 ± 1.763
1700
1600
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

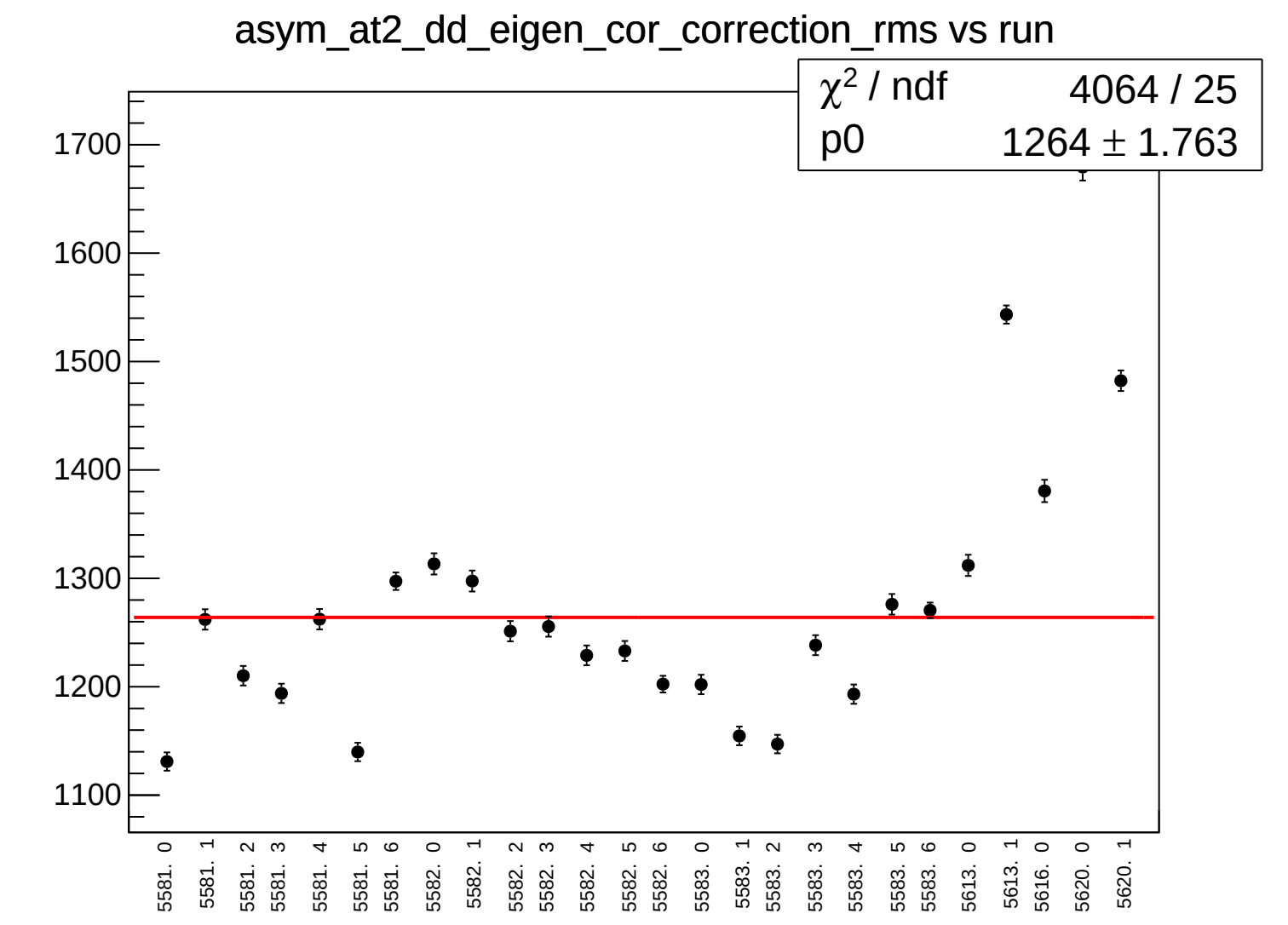

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 22.39 / 21
p0 −4008 ± 2824
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 266.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

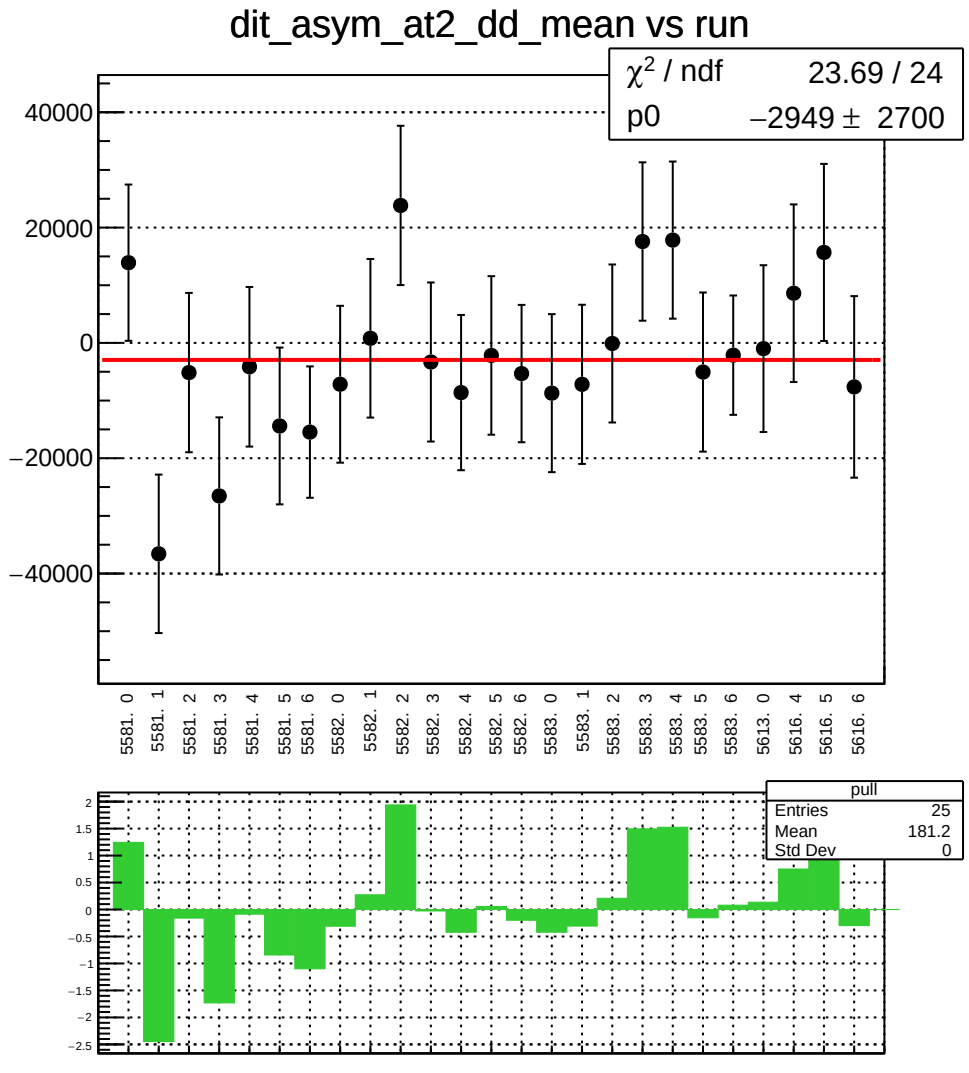

pull1D
Entries 22
Mean 0.008412
Std Dev 1.009
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

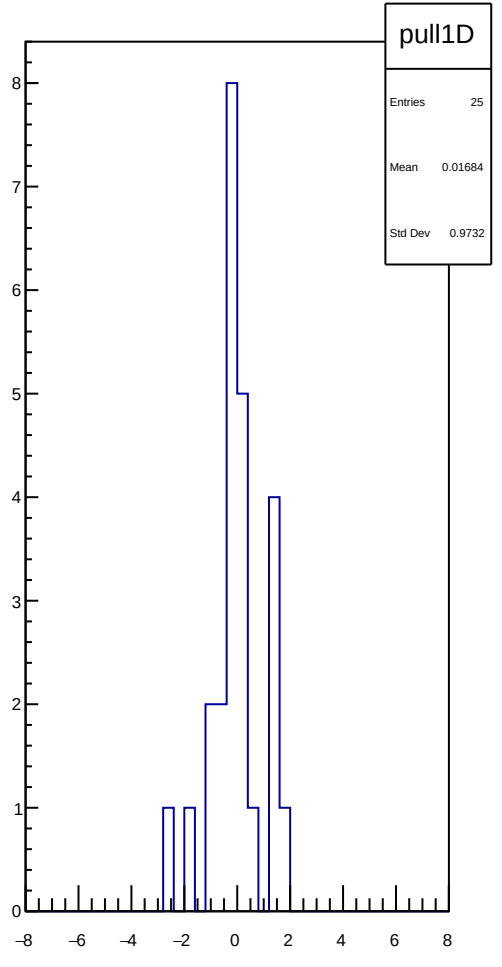

eigen_cor_asym_at2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.692e+05 / 29
p0 1307 ± 1.997
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

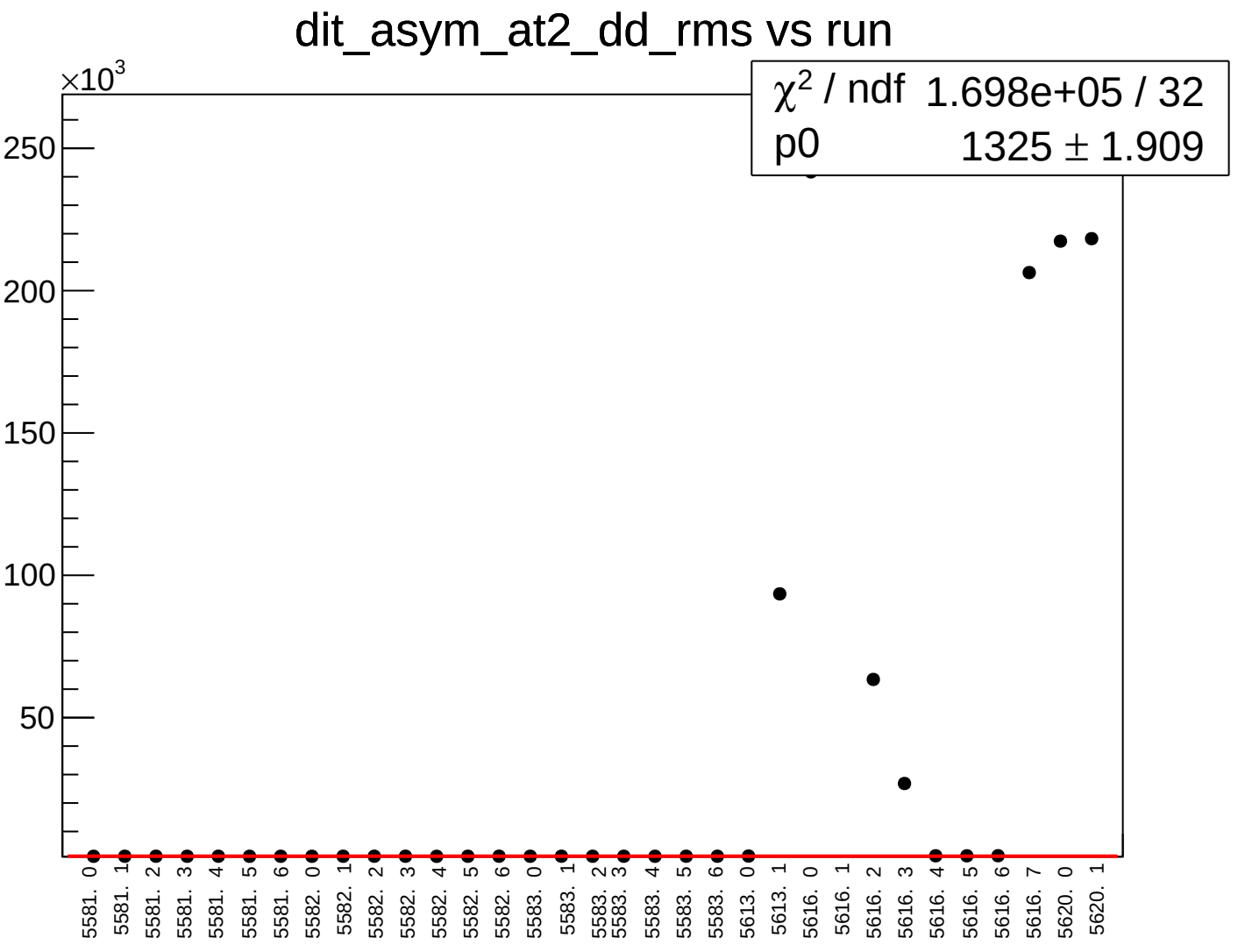

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 33.83 / 25
p0 2600 ± 2493
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 60.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

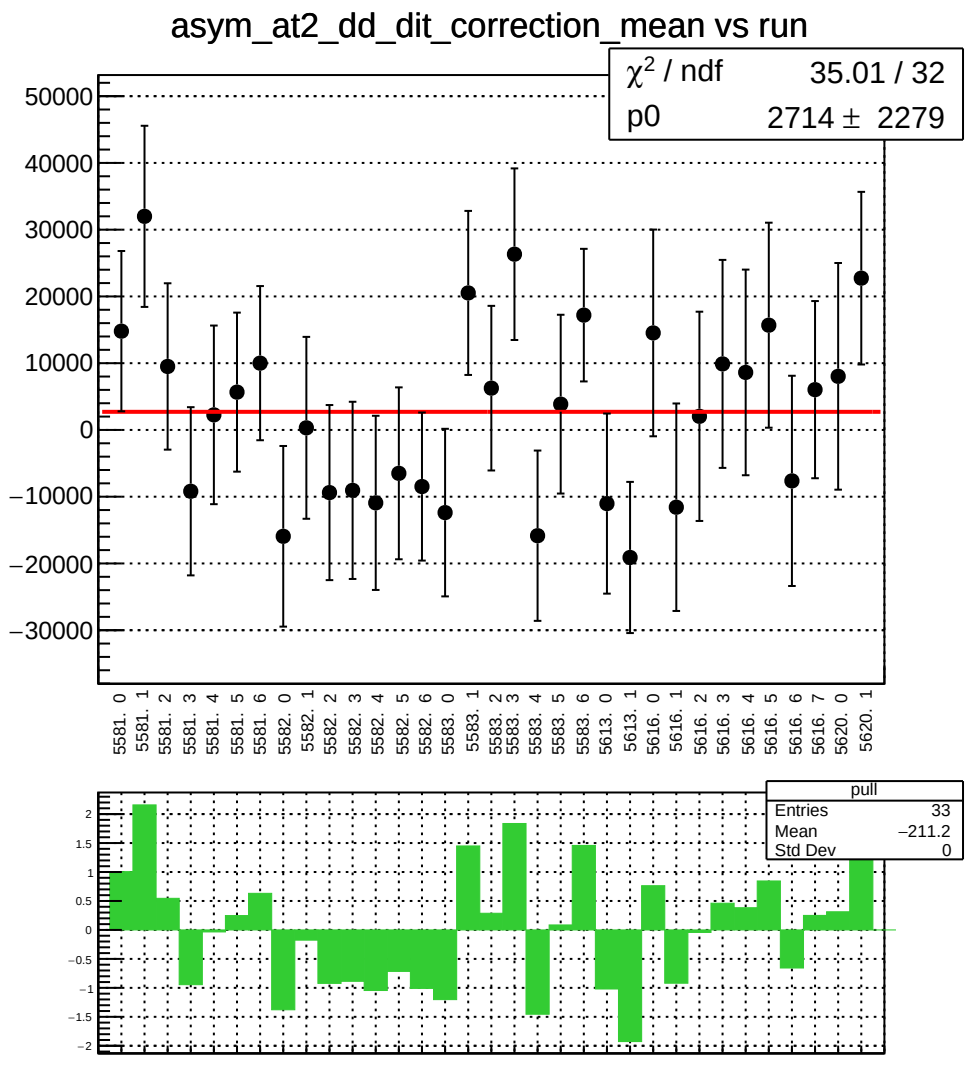

pull1D
Entries 26
Mean −0.006722
Std Dev 1.141
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

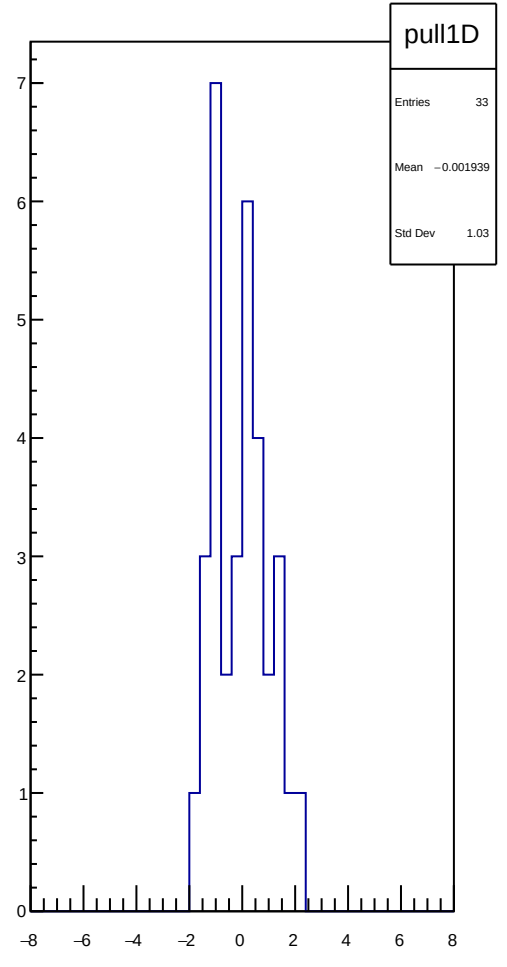

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4064 / 25
p0 1264 ± 1.763
1700
1600
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

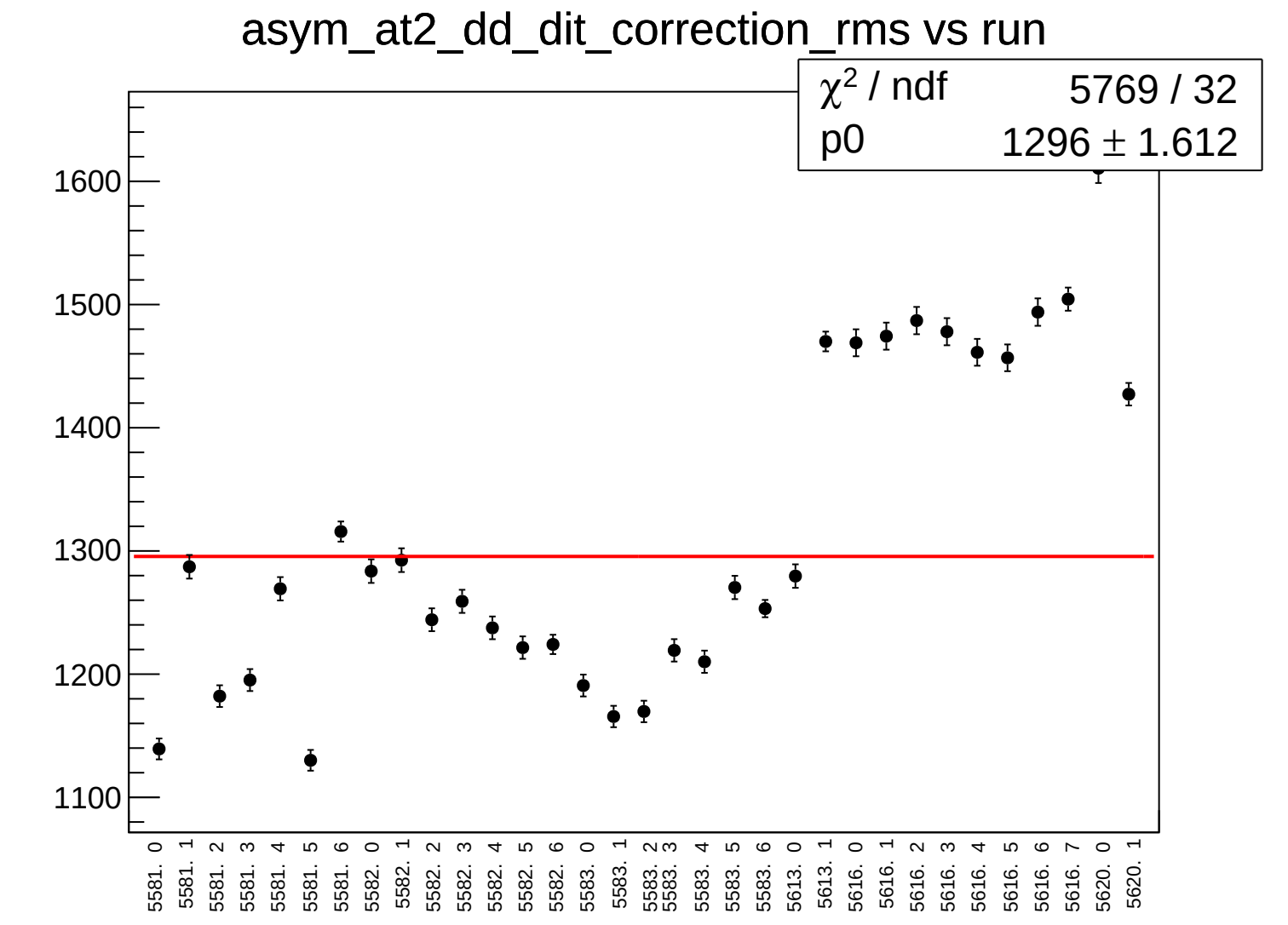

dit_asym_at2_dd_mean vs run
χ² / ndf 23.69 / 24
p0 −2949 ± 2700
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 4
5616. 5
5616. 6
pull
Entries 25
Mean 181.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

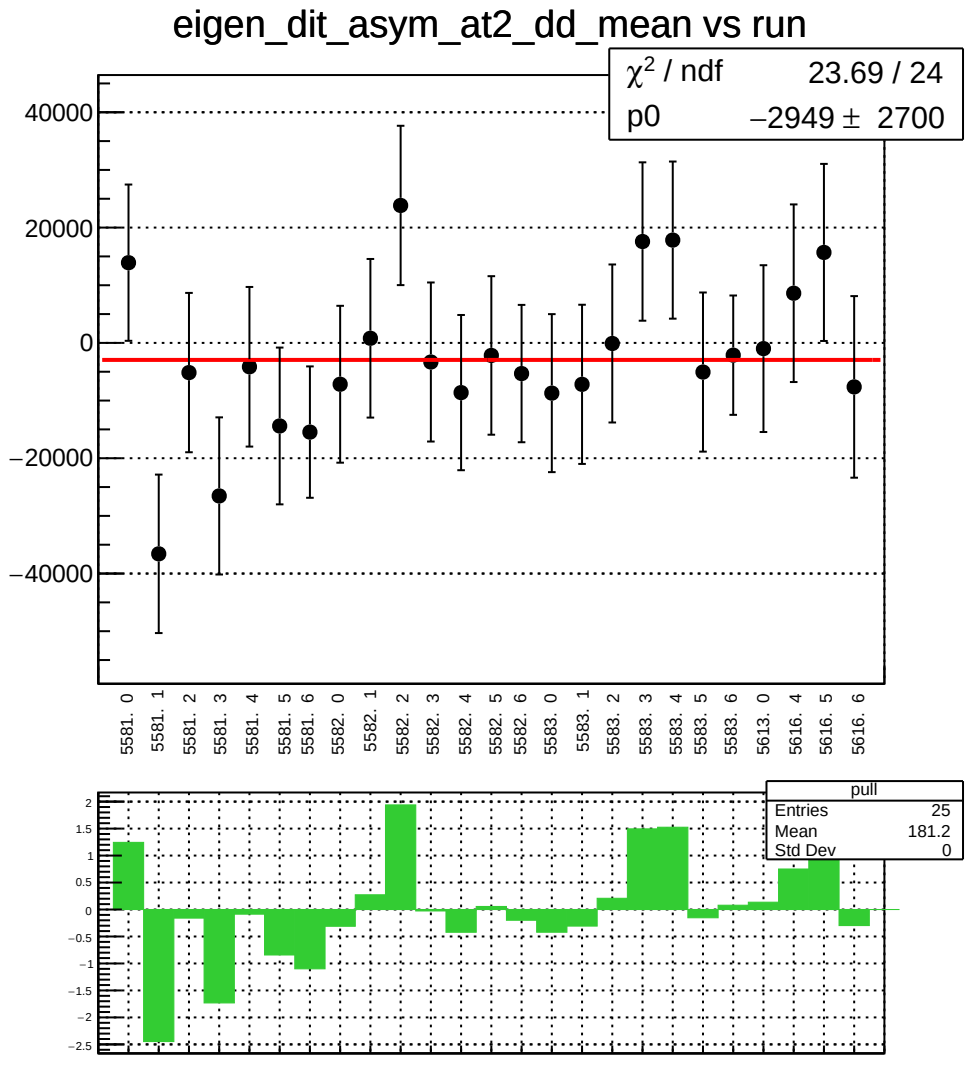

pull1D
Entries 25
Mean 0.01684
Std Dev 0.9732
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

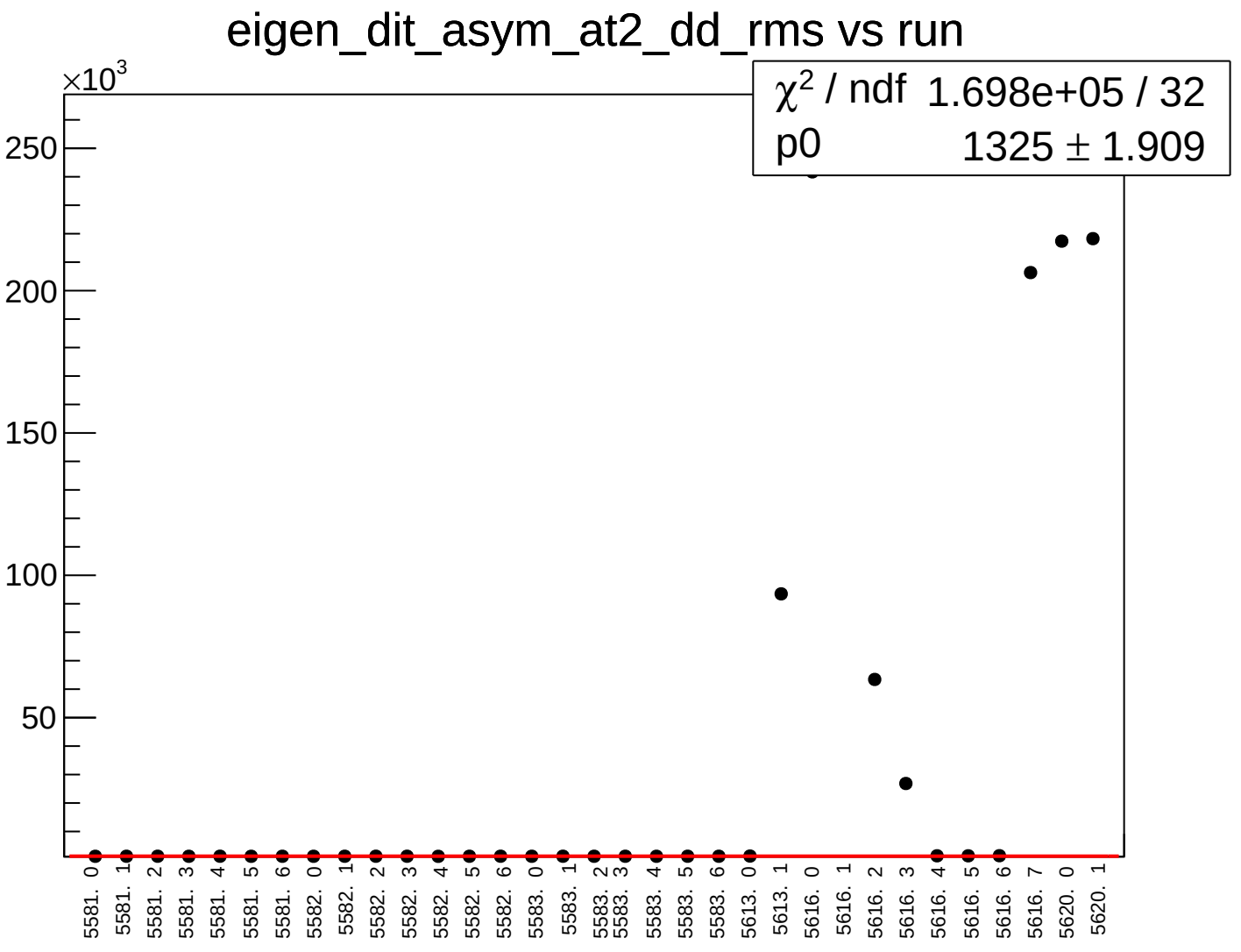

dit_asym_at2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.698e+05 / 32
p0 1325 ± 1.909
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

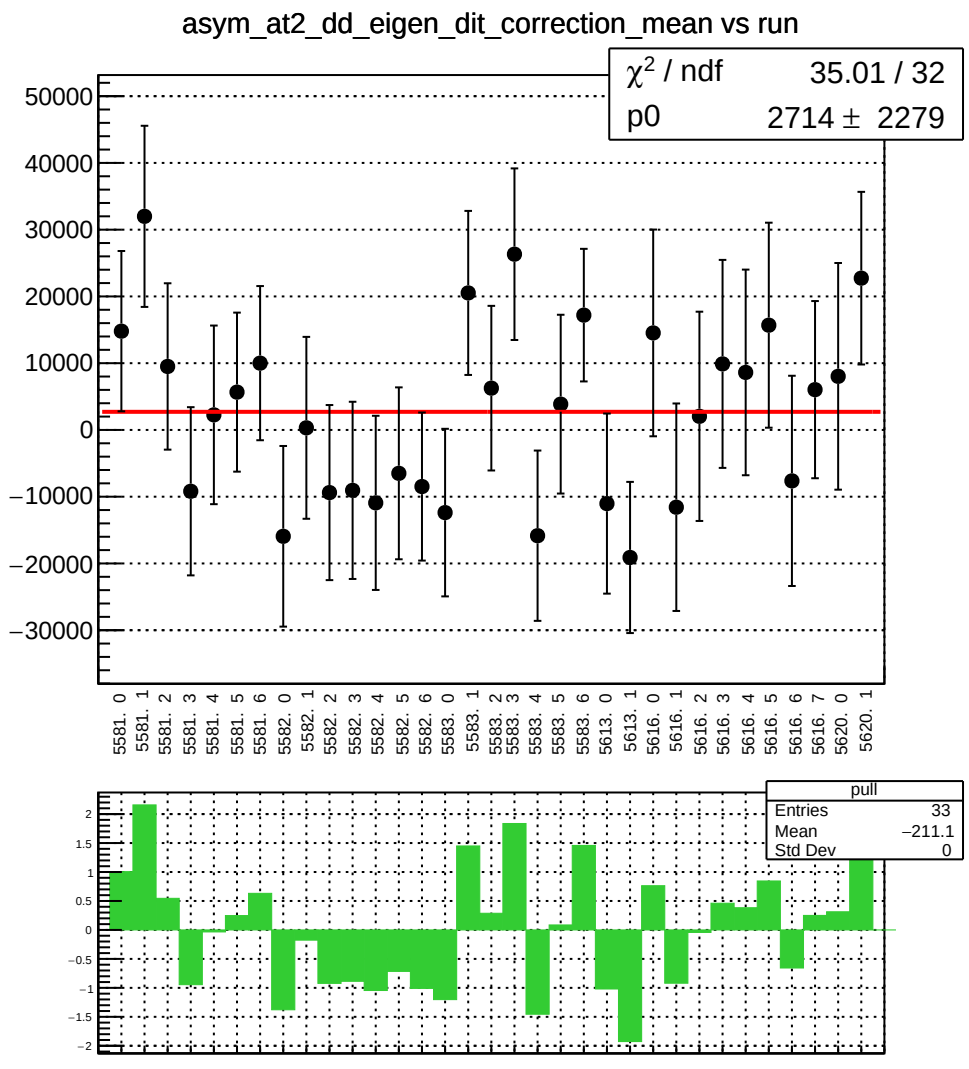

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 35.01 / 32
p0 2714 ± 2279
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −211.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

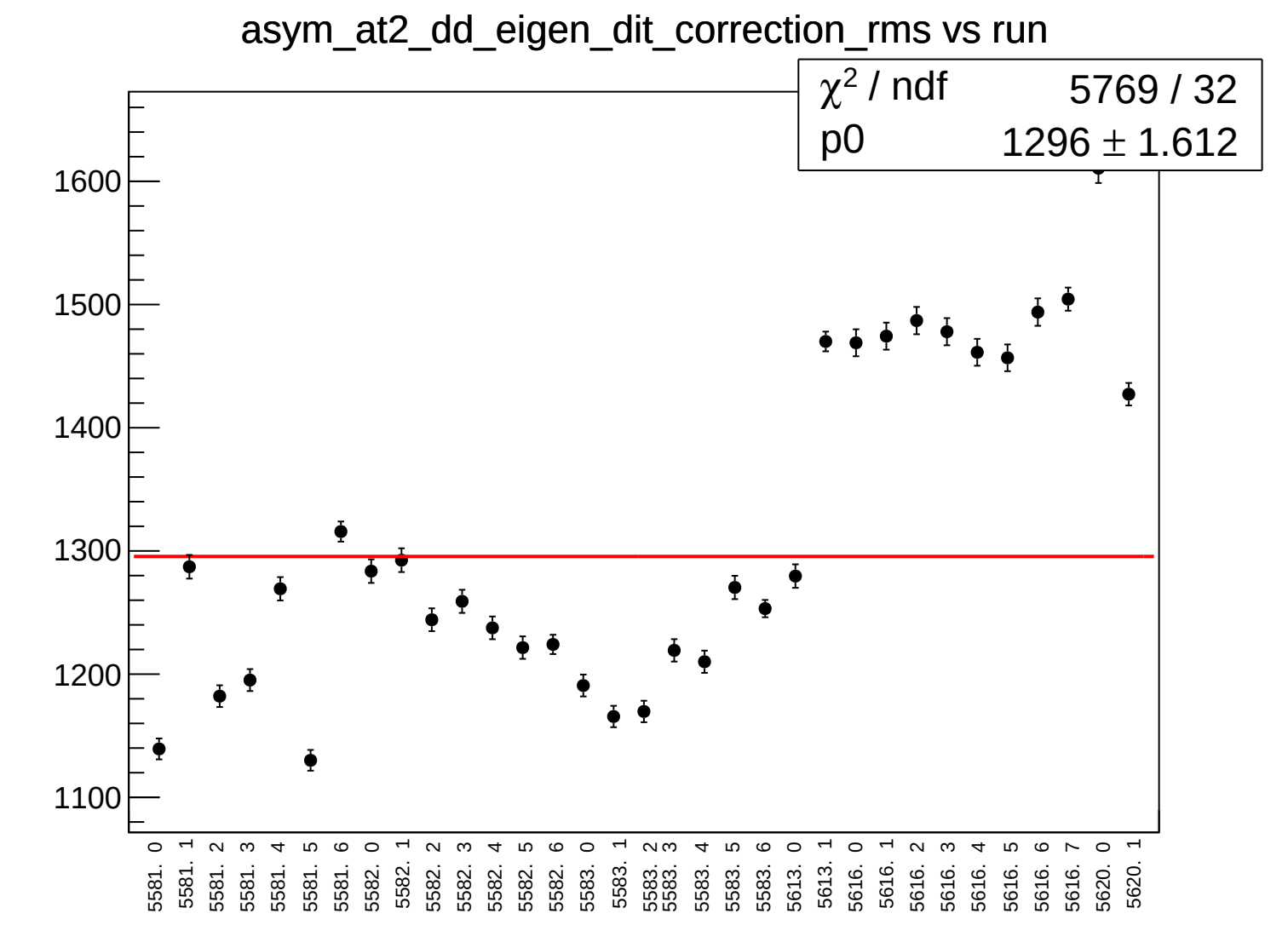

pull1D
Entries 33
Mean −0.001939
Std Dev 1.03
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

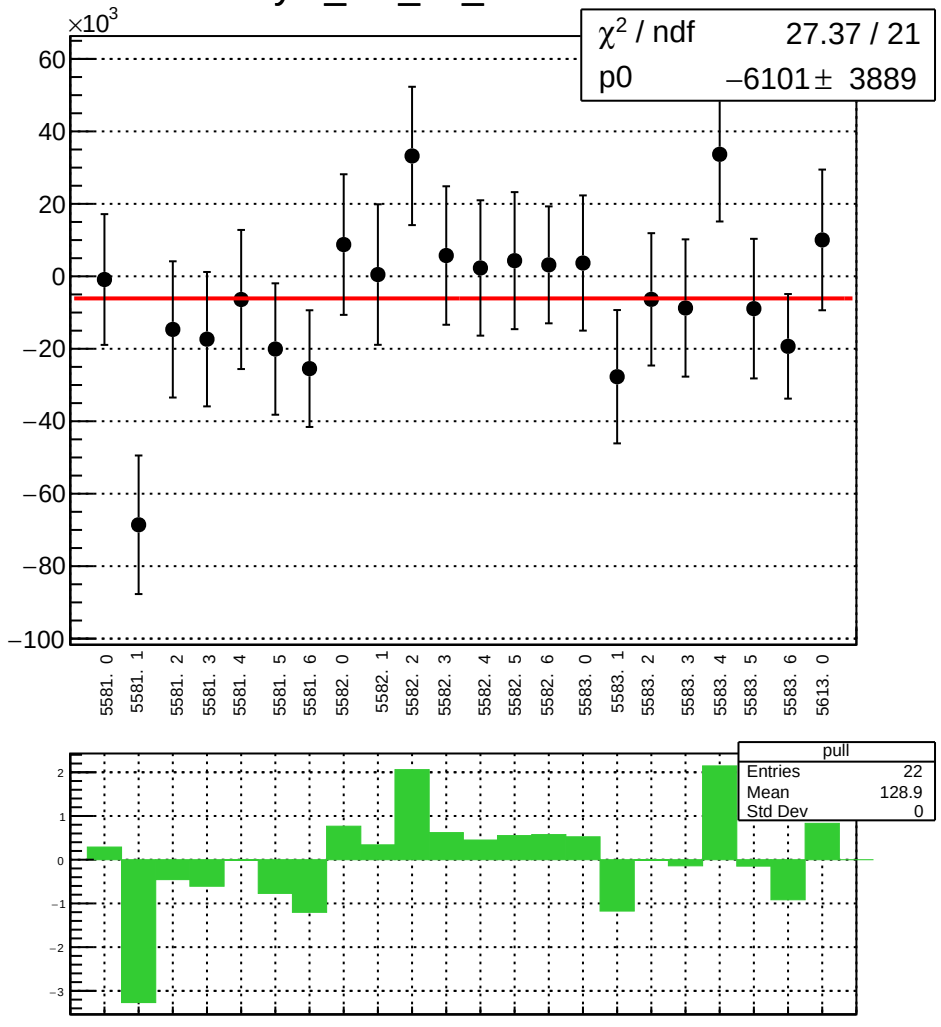

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 5769 / 32
p0 1296 ± 1.612
1600
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

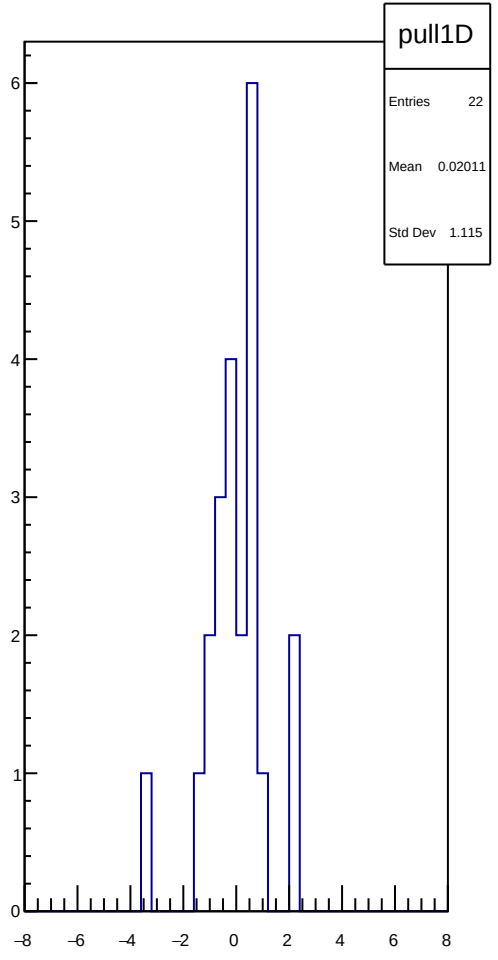

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 23.69 / 24
p0 −2949 ± 2700
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 4
5616. 5
5616. 6
pull
Entries 25
Mean 181.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 25
Mean 0.01684
Std Dev 0.9732
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

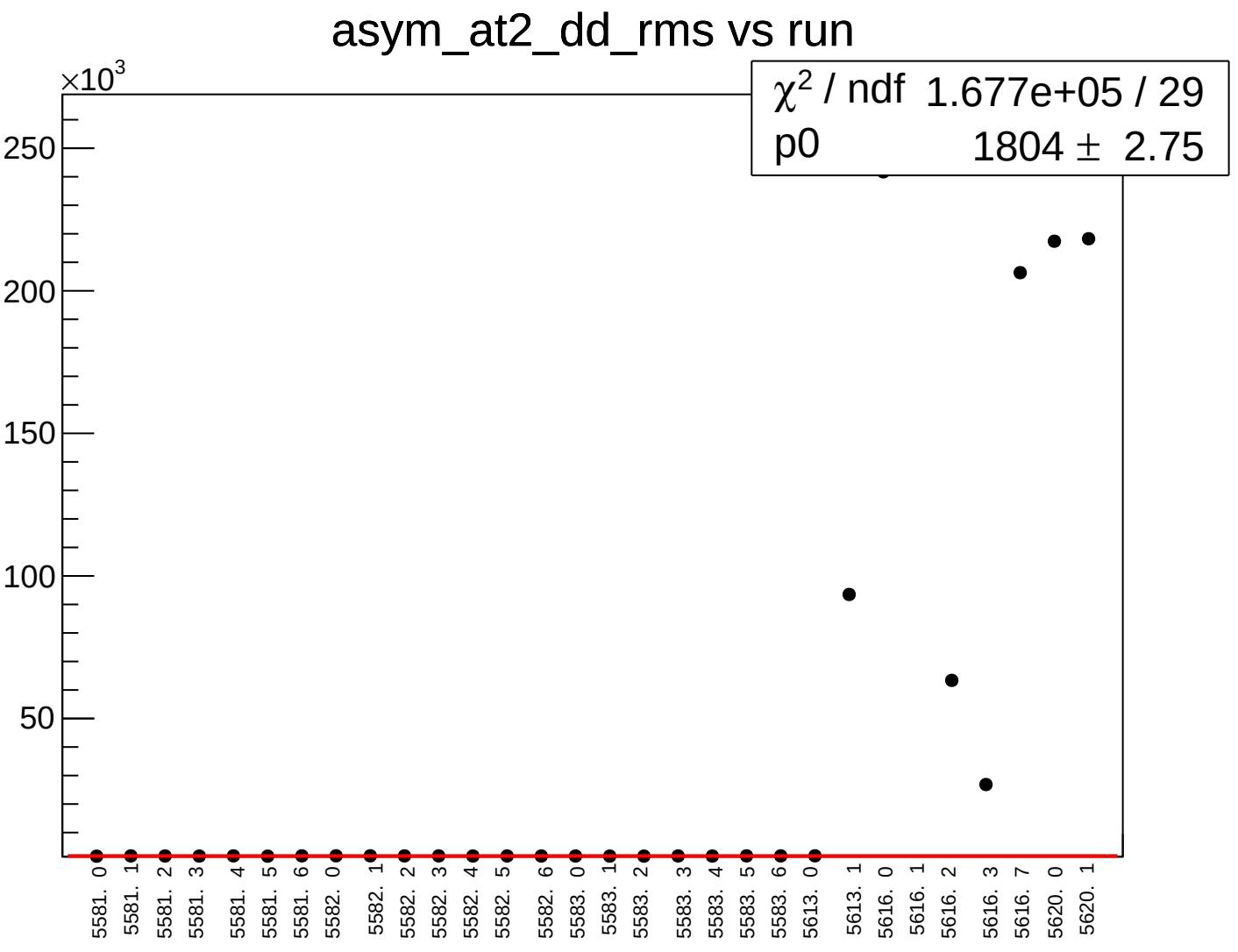

eigen_dit_asym_at2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.698e+05 / 32
p0 1325 ± 1.909
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

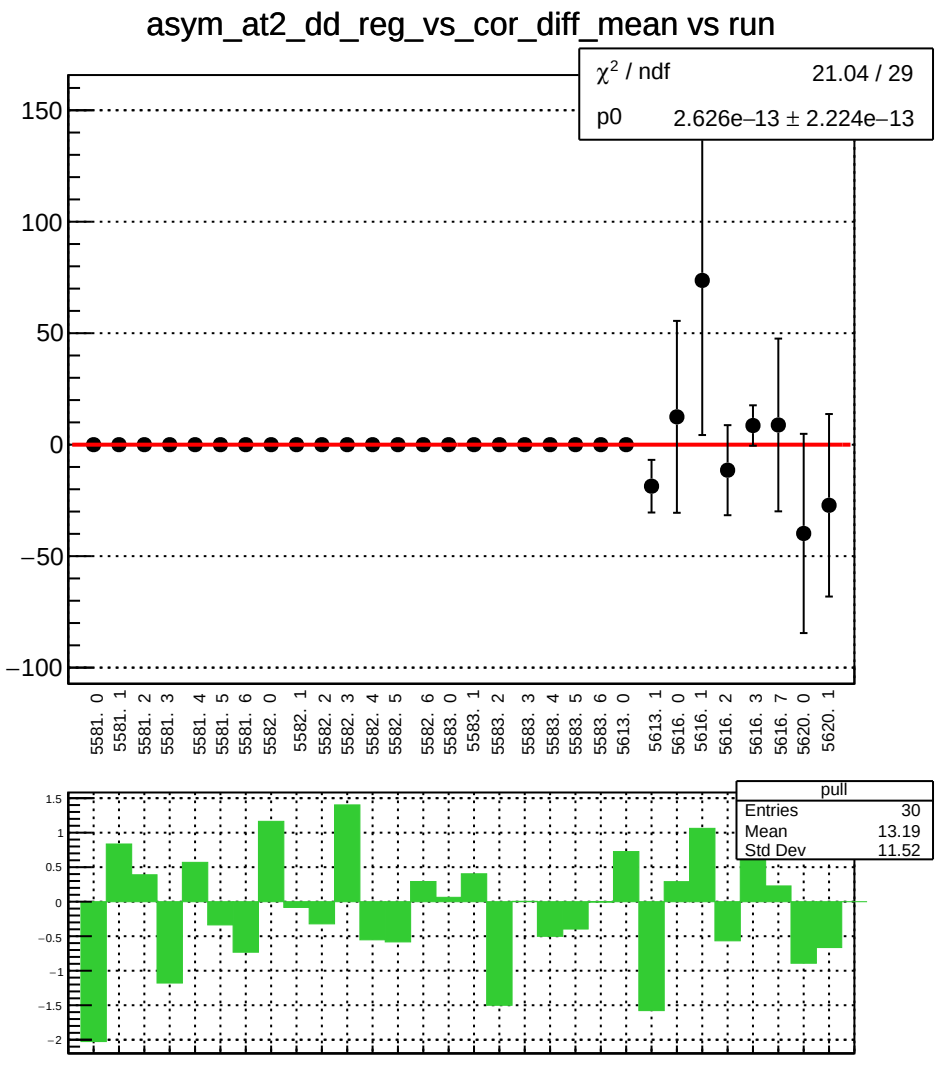

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 35.01 / 32
p0 2714 ± 2279
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −211.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.001939
Std Dev 1.03
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

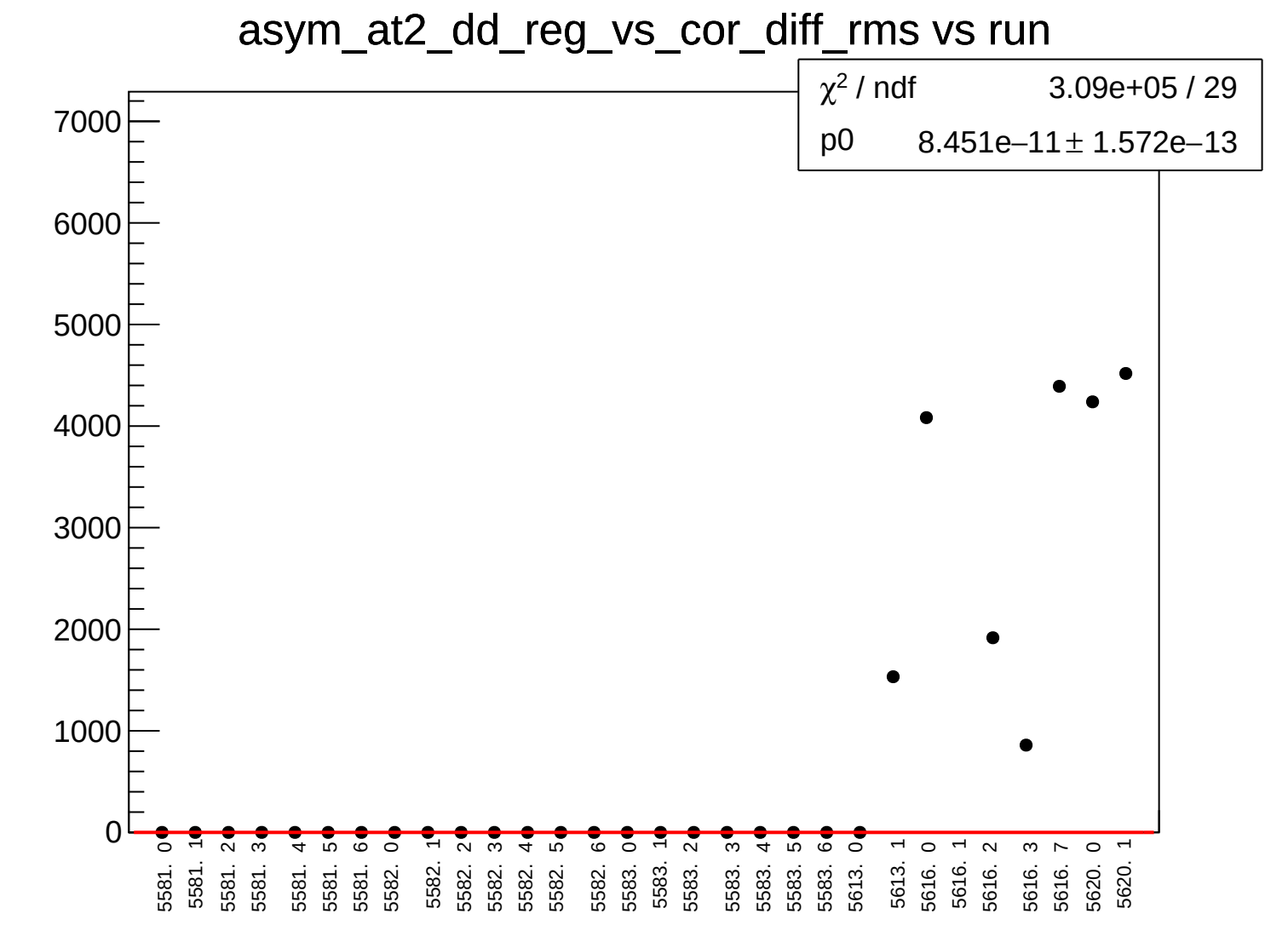

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5769 / 32
p0 1296 ± 1.612
1600
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

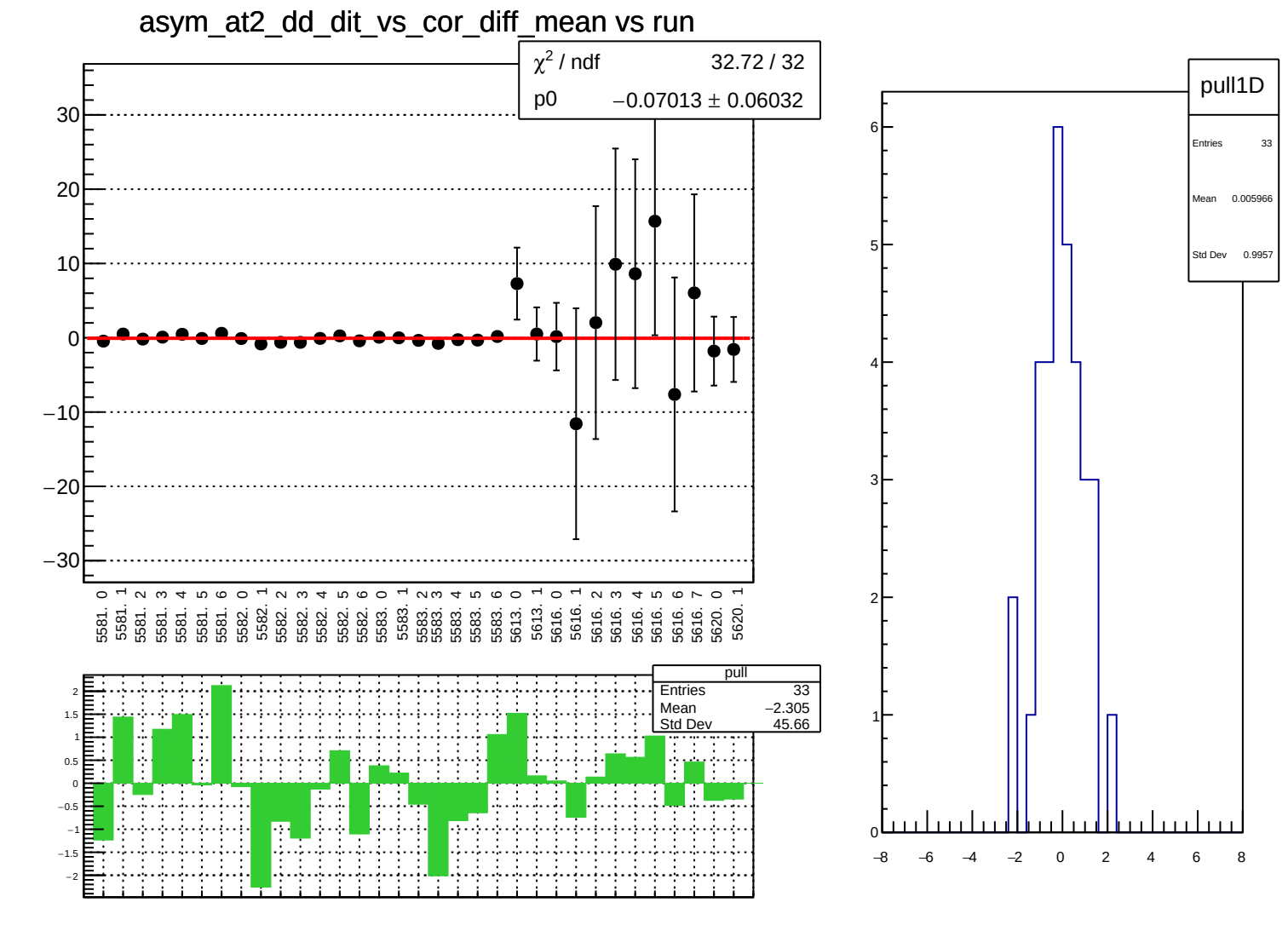

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 27.37 / 21
p0 −6101 ± 3889
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 128.9
Std Dev 0
2
1
0
−1
−2
−3

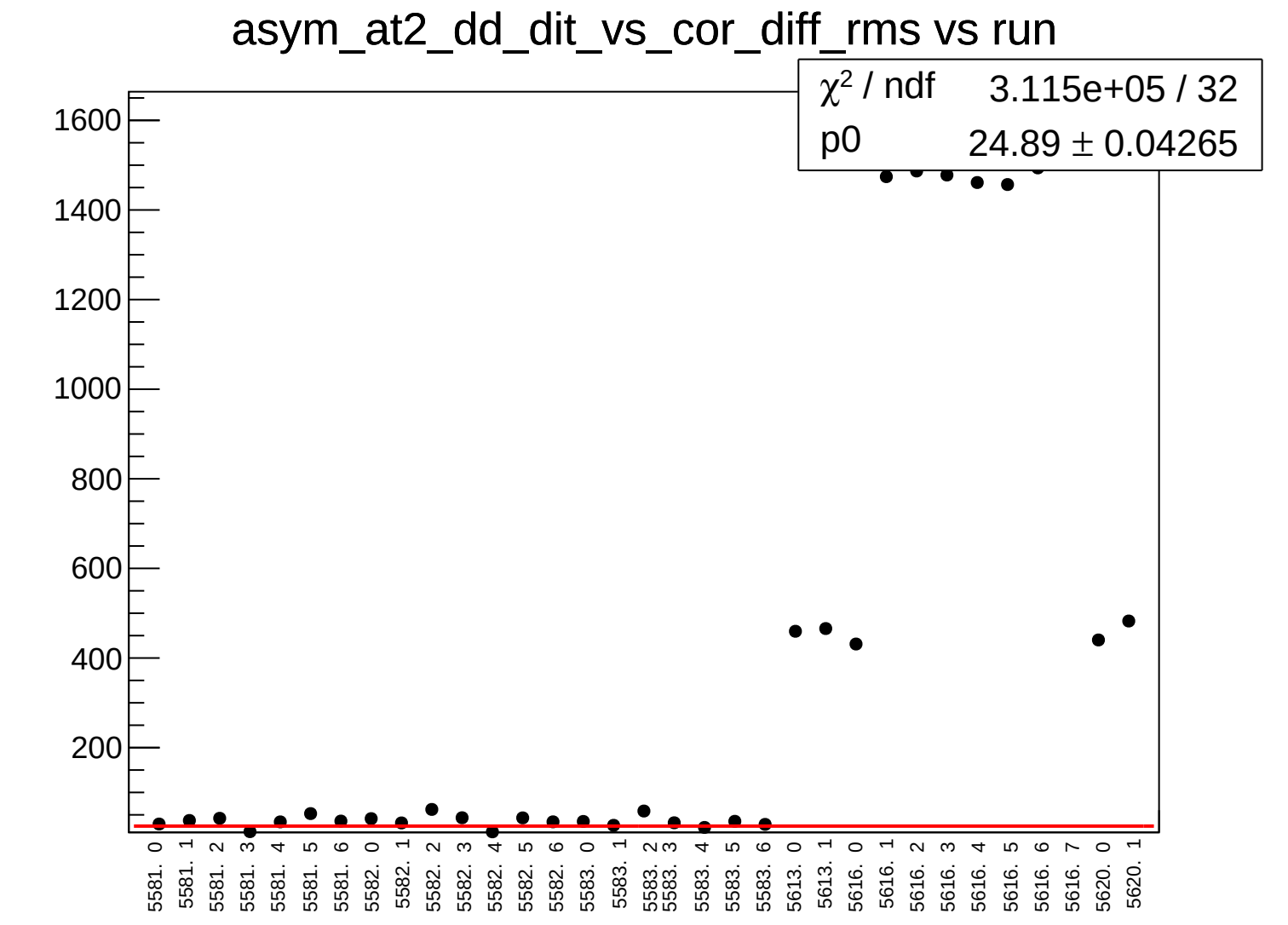

pull1D
Entries 22
Mean 0.02011
Std Dev 1.115
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

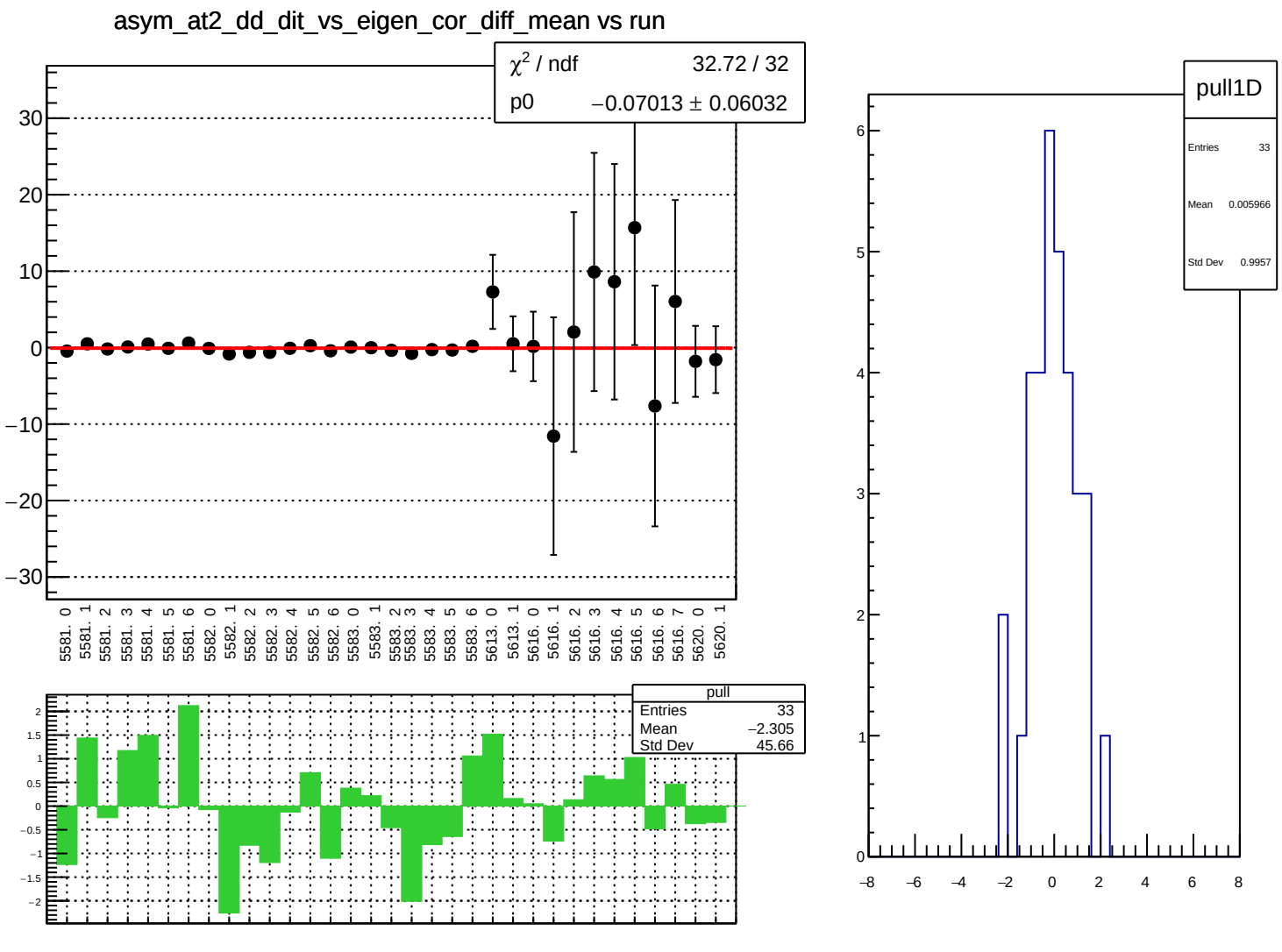

asym_at2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.677e+05 / 29
p0 1804 ± 2.75
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

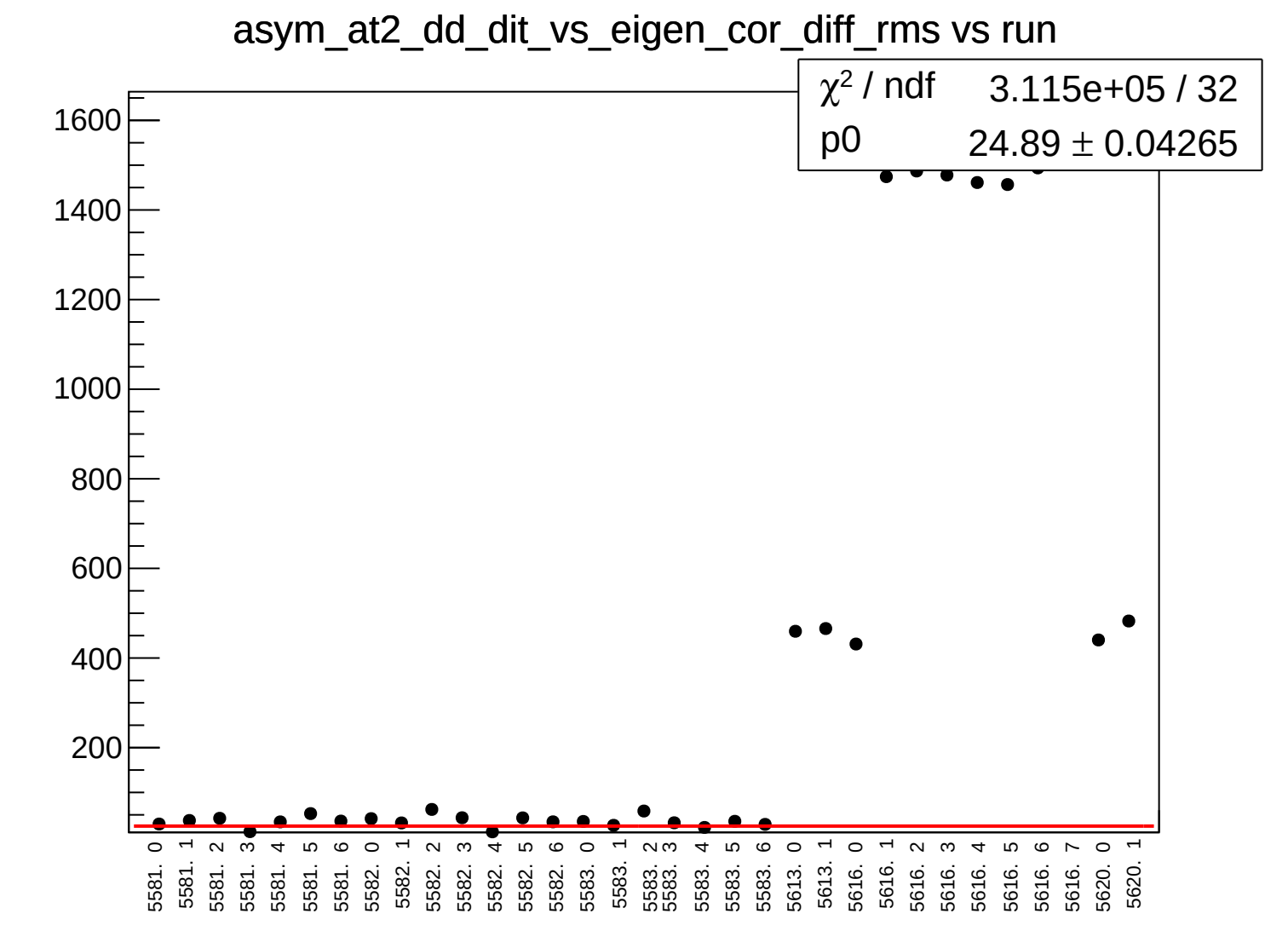

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 21.04 / 29
p0 2.626e−13 ± 2.224e−13
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean 13.19
Std Dev 11.52
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 30
Mean −0.1177
Std Dev 0.8292
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

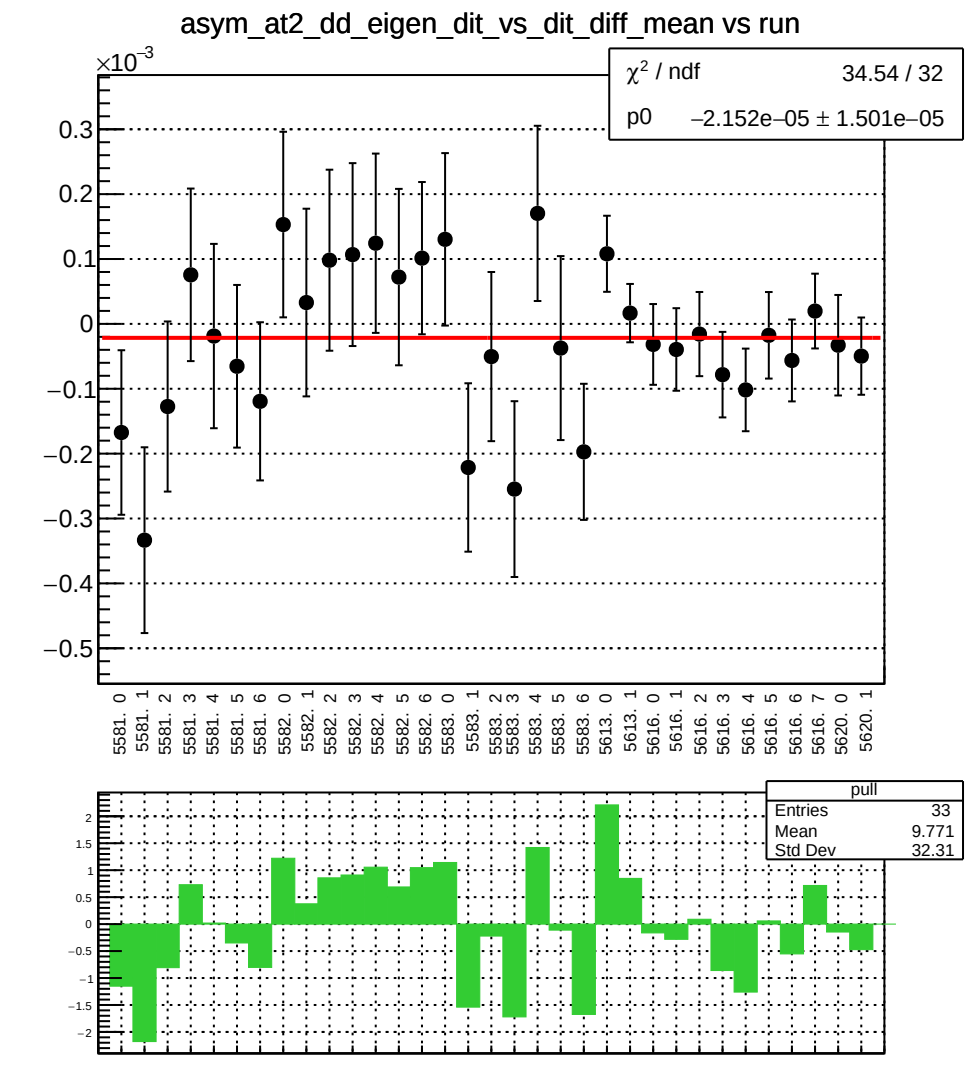

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.09e+05 / 29
p0 8.451e−11 ± 1.572e−13
7000
6000
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1

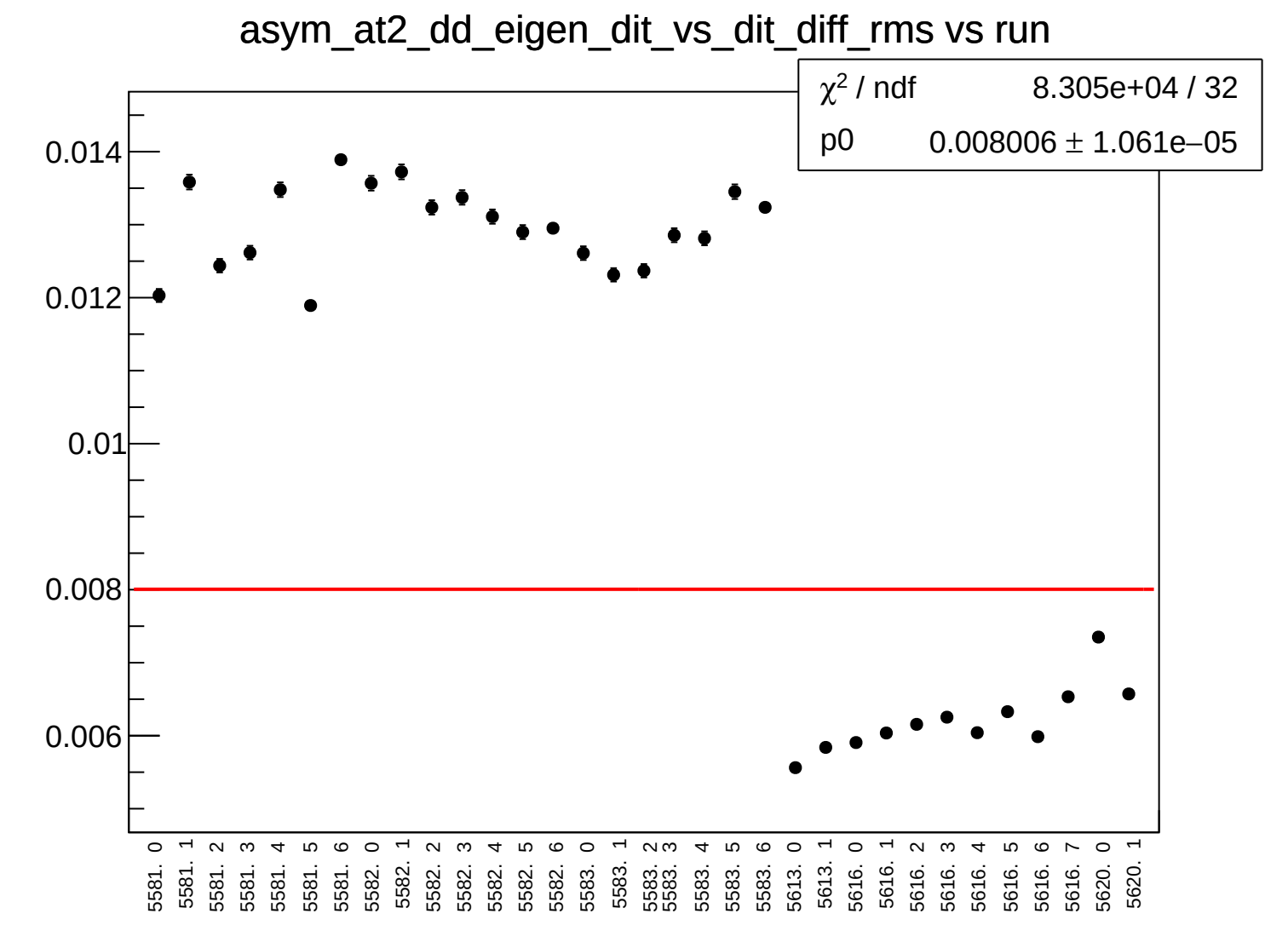

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 32.72 / 32
p0 −0.07013 ± 0.06032
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2.305
Std Dev 45.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.005966
Std Dev 0.9957
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

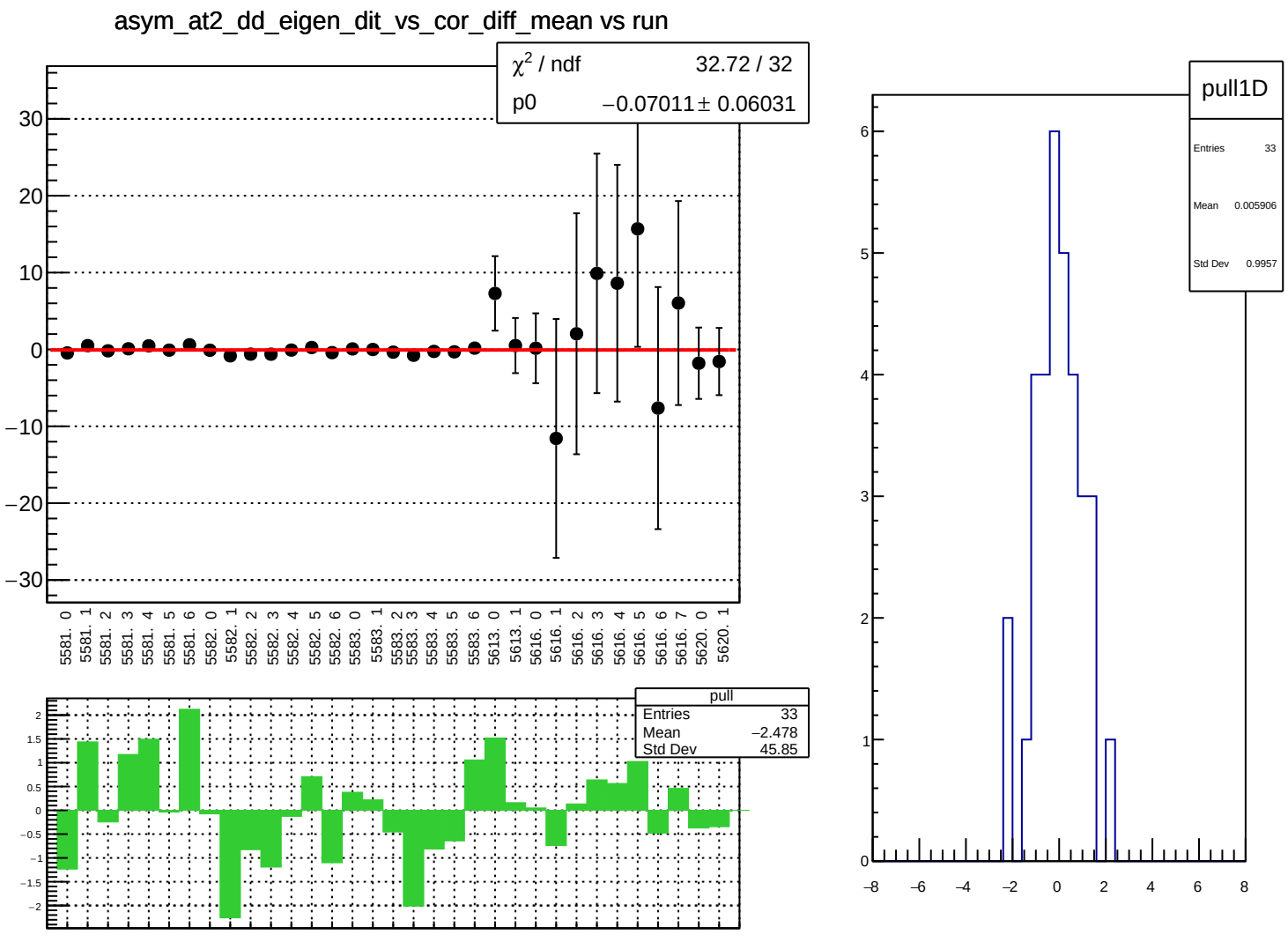

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.115e+05 / 32
p0 24.89 ± 0.04265
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

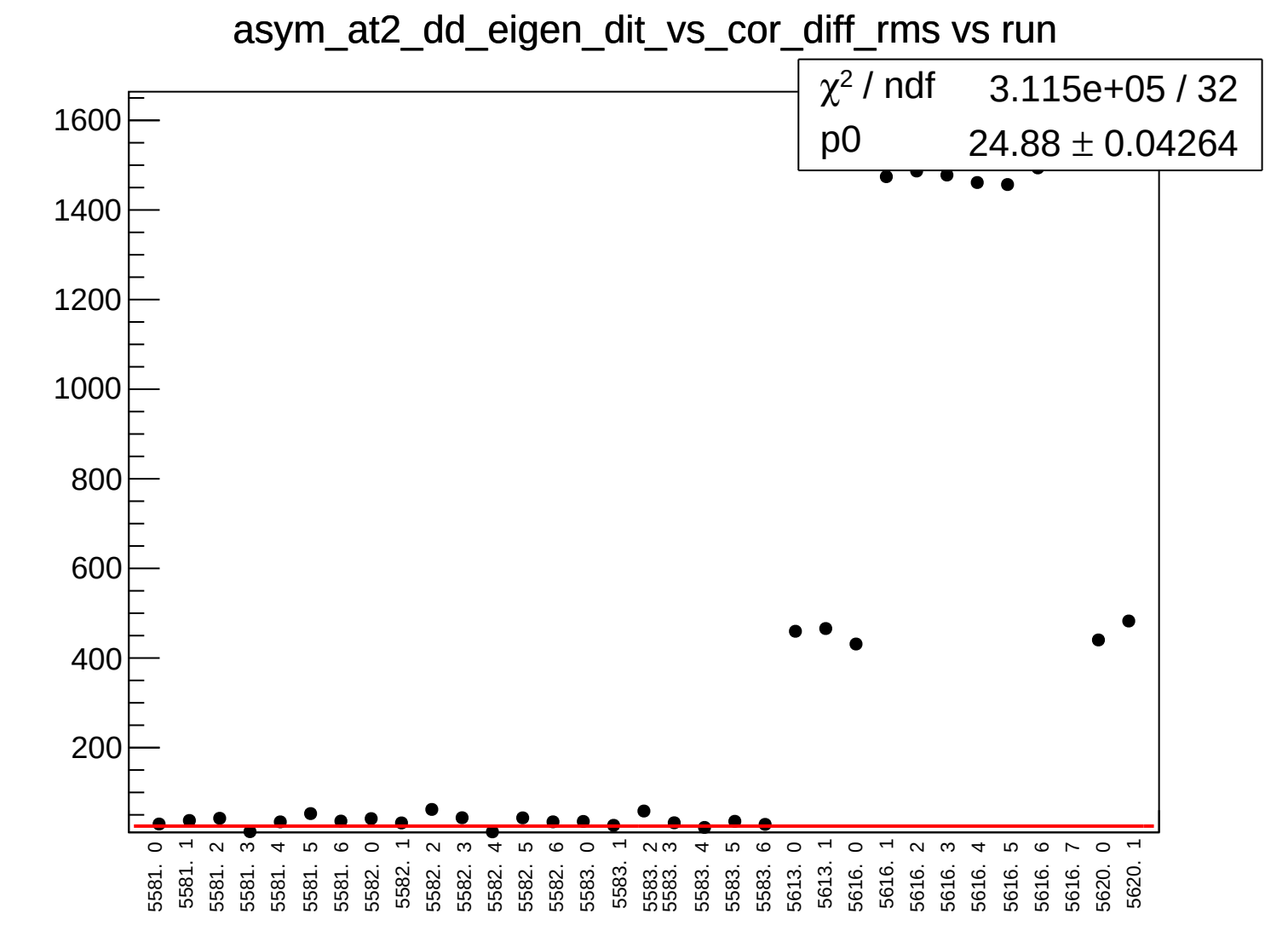

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.72 / 32
p0 −0.07013 ± 0.06032
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2.305
Std Dev 45.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.005966
Std Dev 0.9957
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

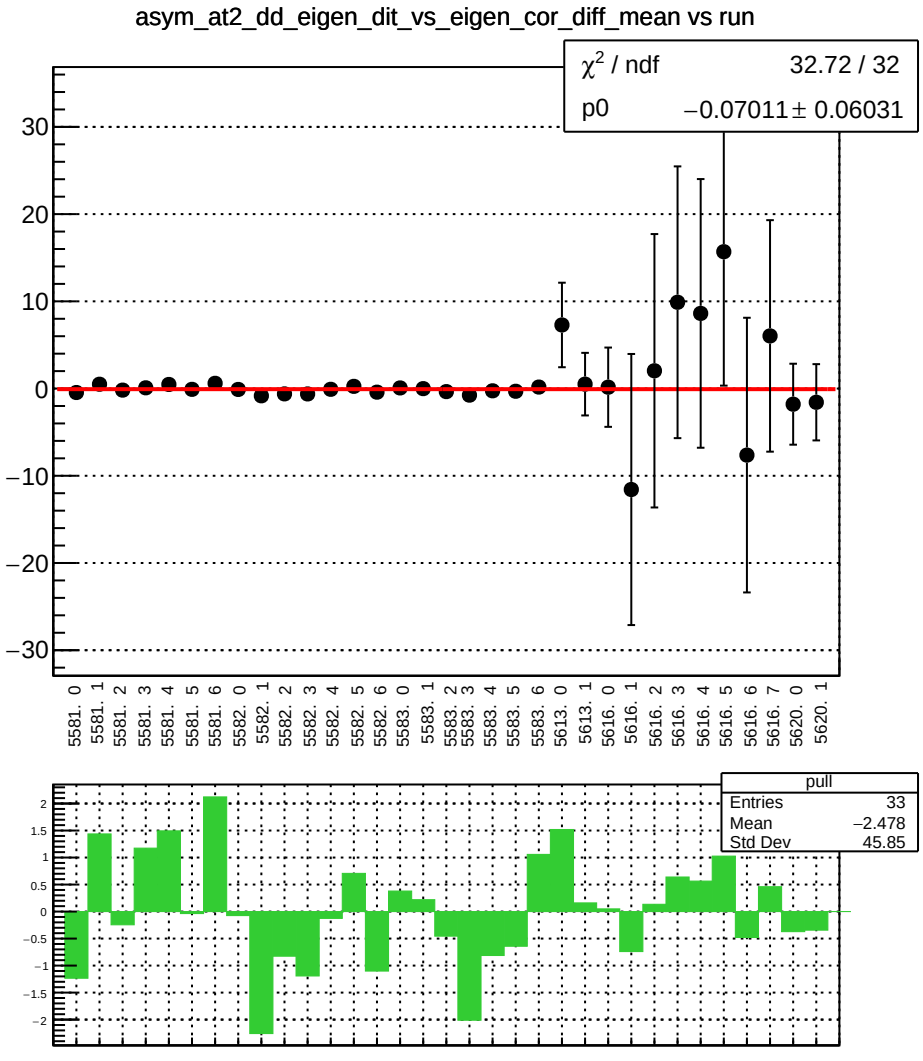

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.115e+05 / 32
p0 24.89 ± 0.04265
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

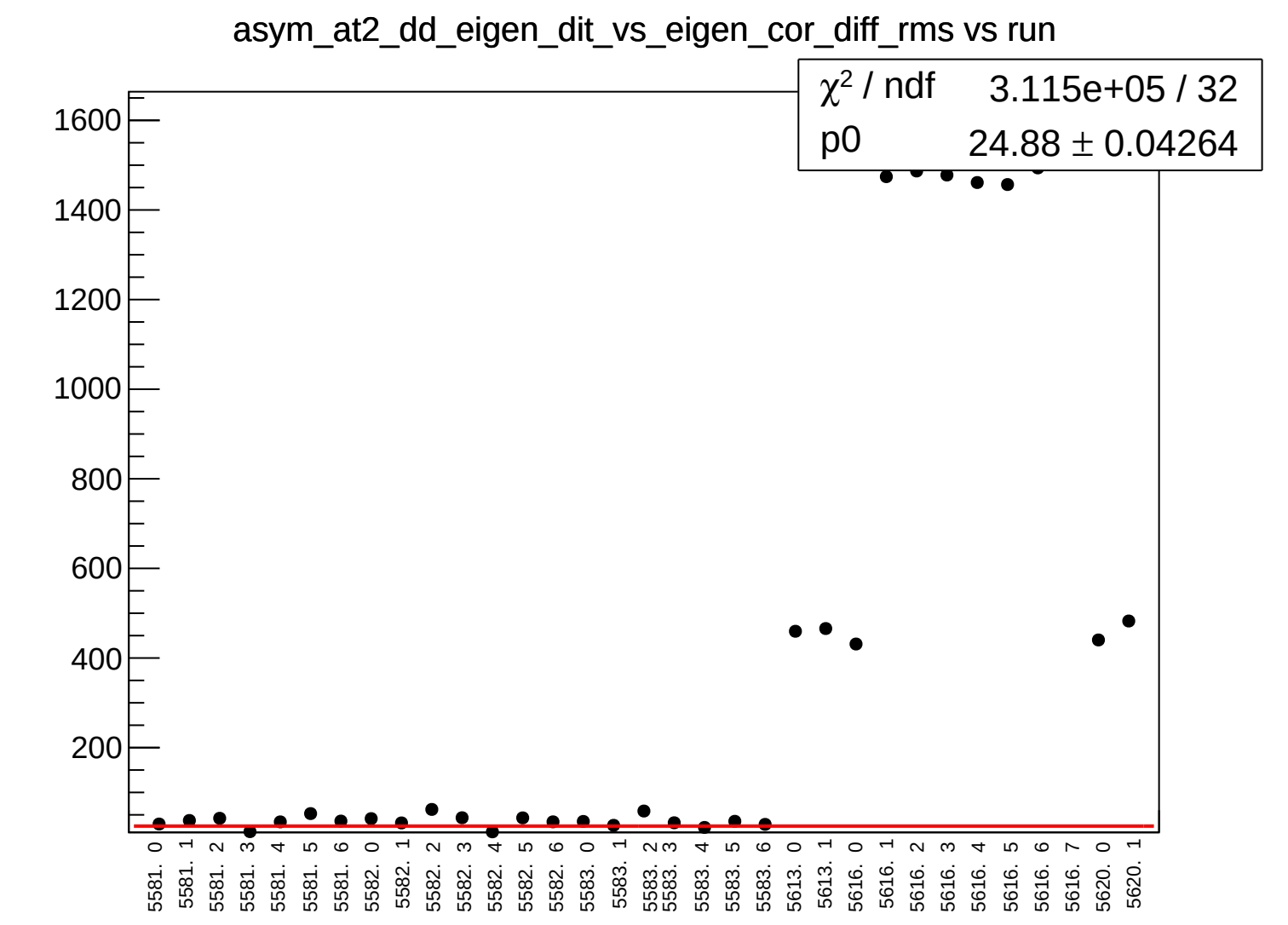

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 34.54 / 32
p0 −2.152e−05 ± 1.501e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 9.771
Std Dev 32.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02742
Std Dev 1.023
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

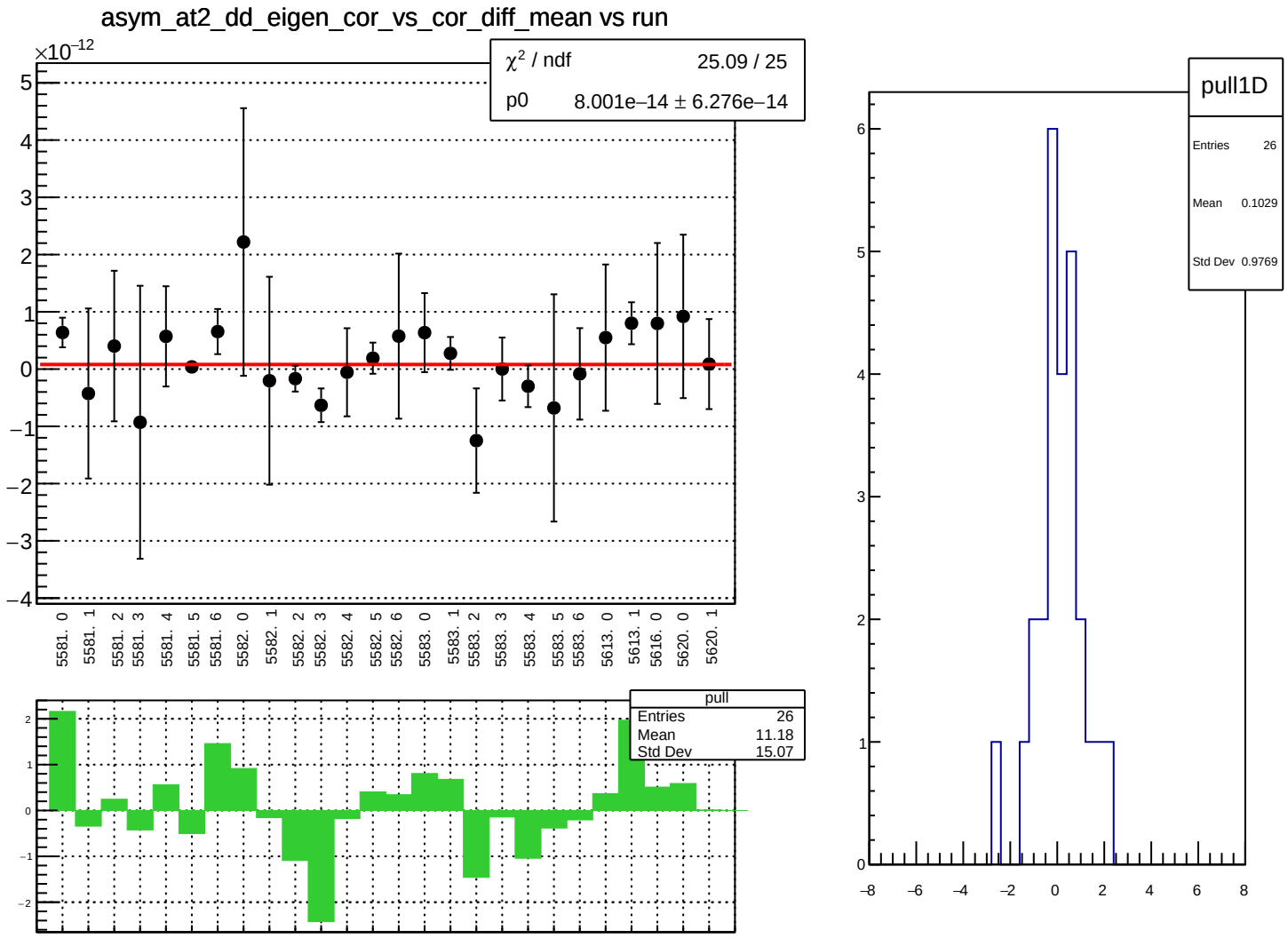

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.305e+04 / 32
p0 0.008006 ± 1.061e−05
0.014
0.012
0.01
0.008
0.006
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

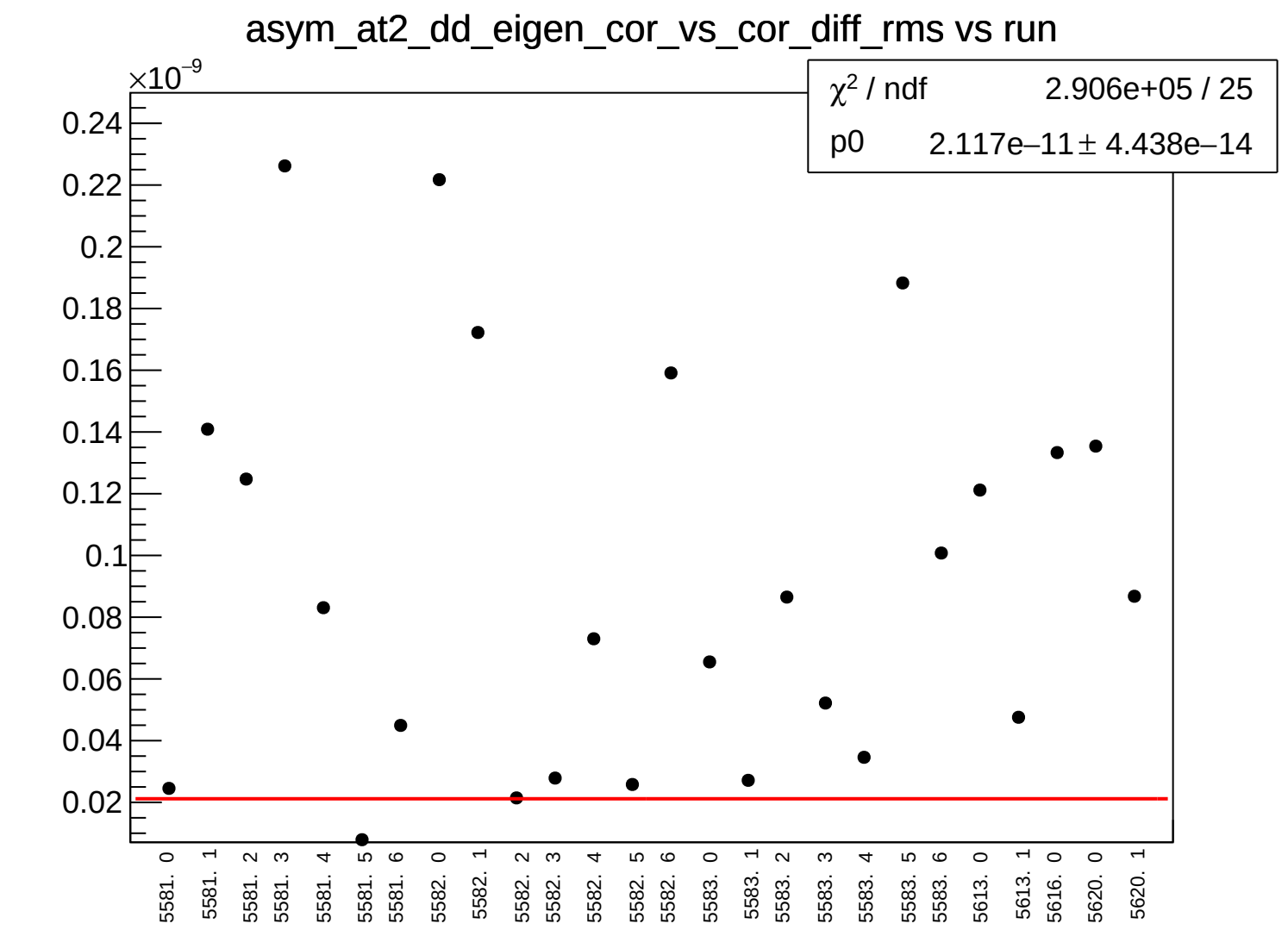

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.72 / 32
p0 −0.07011 ± 0.06031
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2.478
Std Dev 45.85
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.005906
Std Dev 0.9957
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

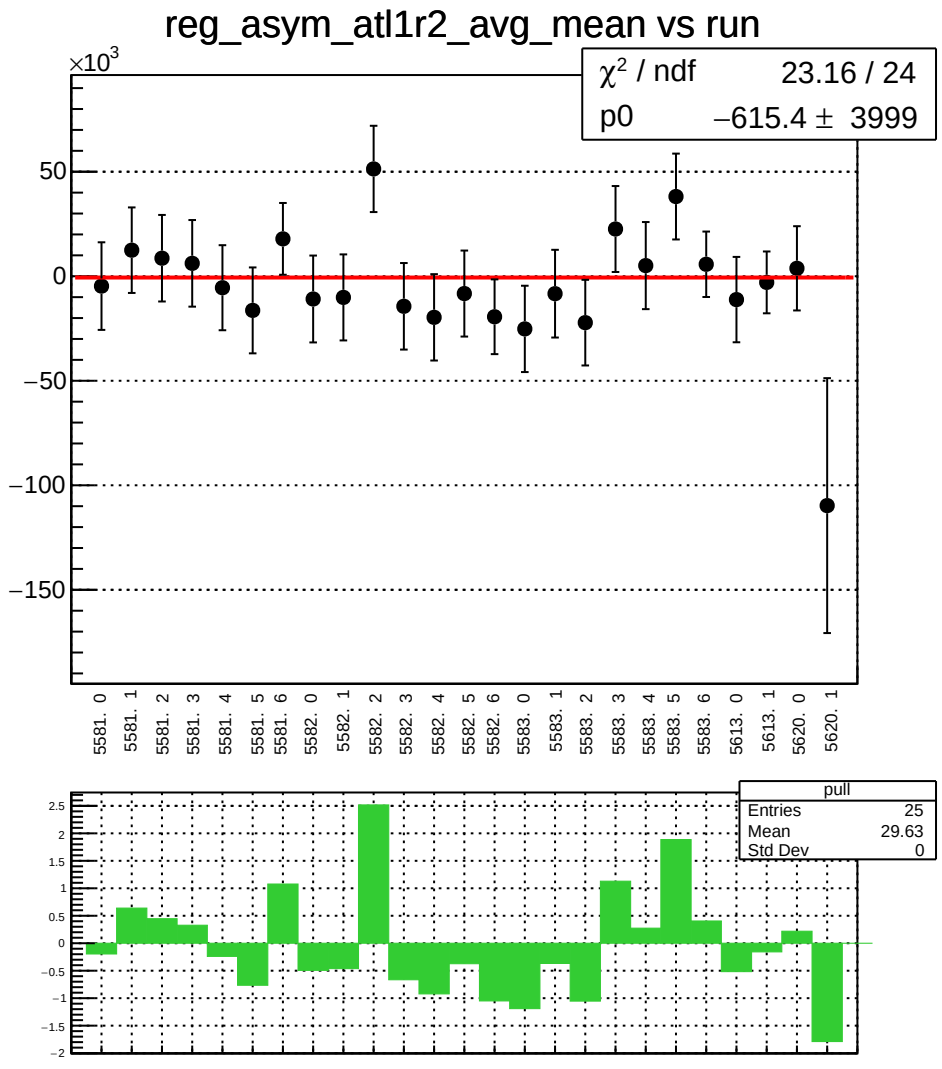

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.115e+05 / 32
p0 24.88 ± 0.04264
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

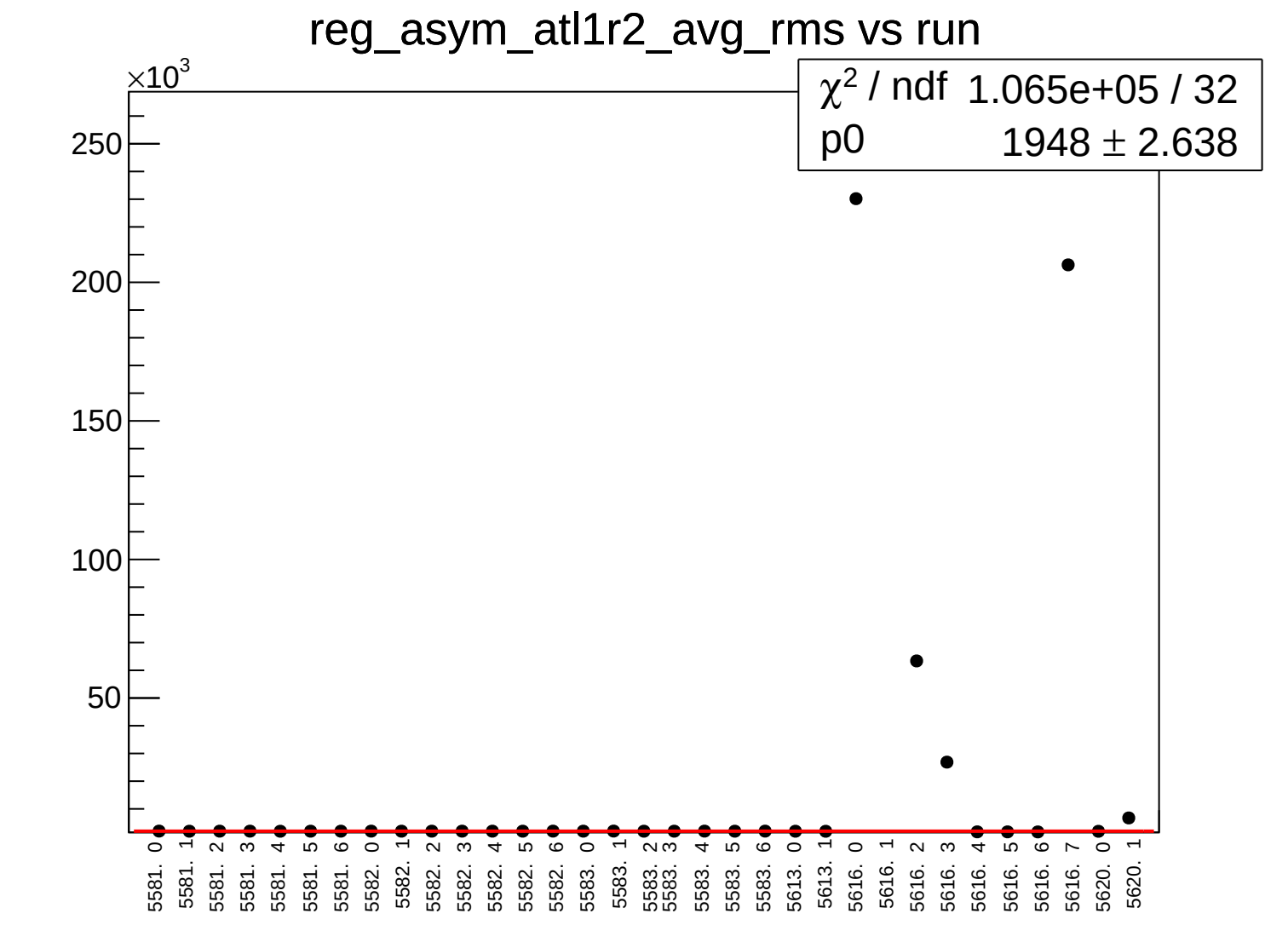

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.72 / 32
p0 −0.07011 ± 0.06031
pull
Entries 33
Mean −2.478
Std Dev 45.85
pull1D
Entries 33
Mean 0.005906
Std Dev 0.9957

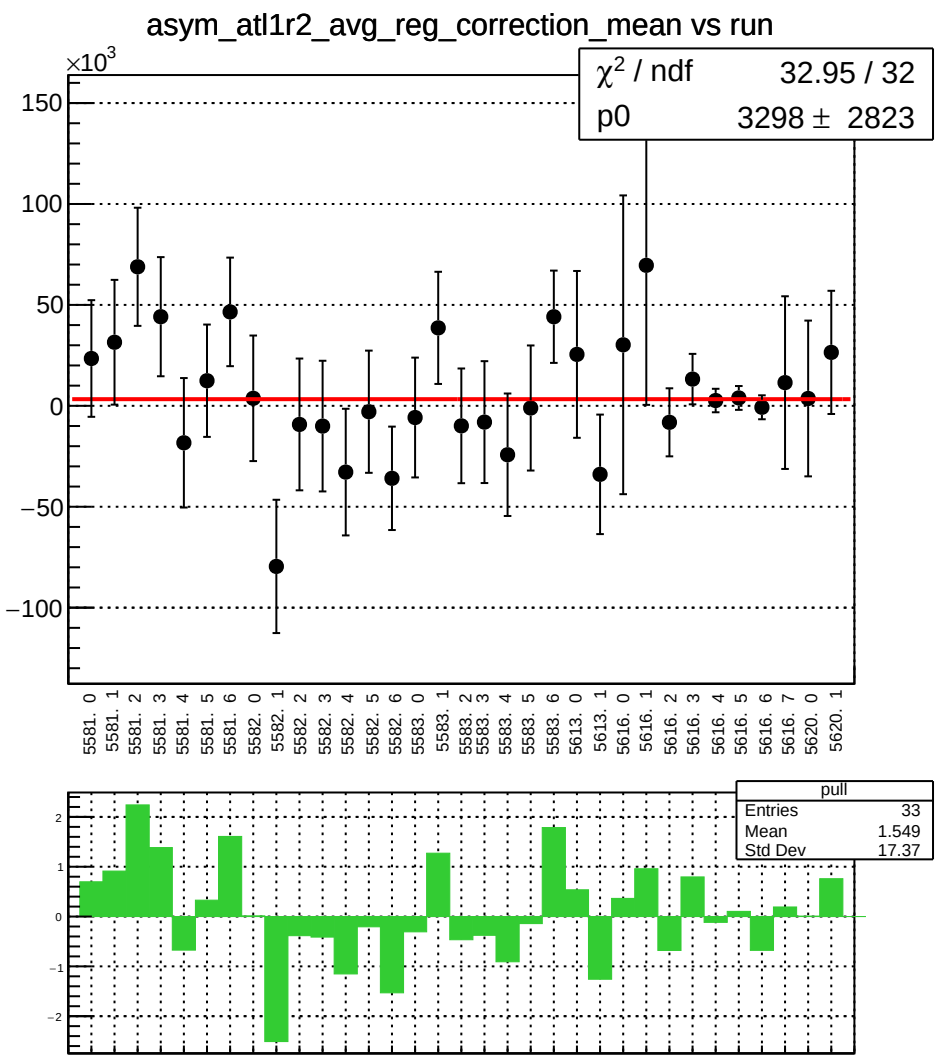

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.115e+05 / 32
p0 24.88 ± 0.04264
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

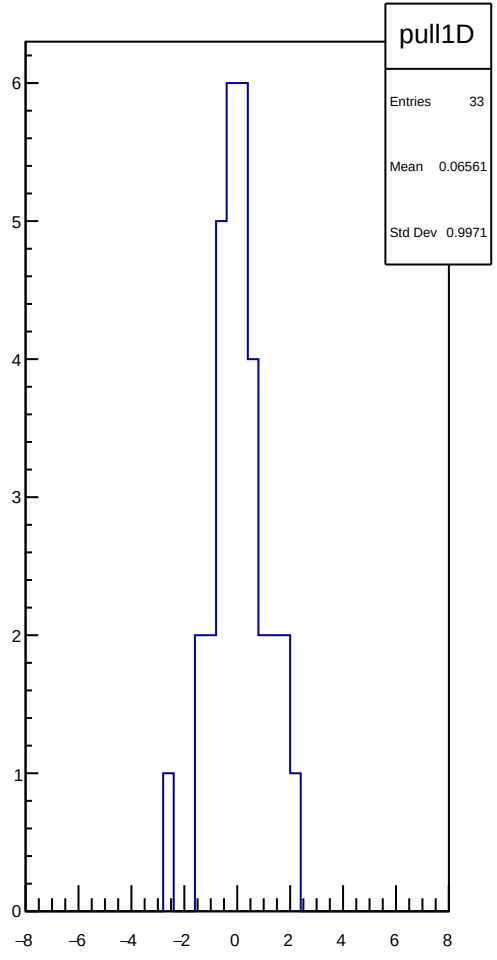

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.09 / 25
p0 8.001e−14 ± 6.276e−14
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 11.18
Std Dev 15.07
pull1D
Entries 26
Mean 0.1029
Std Dev 0.9769

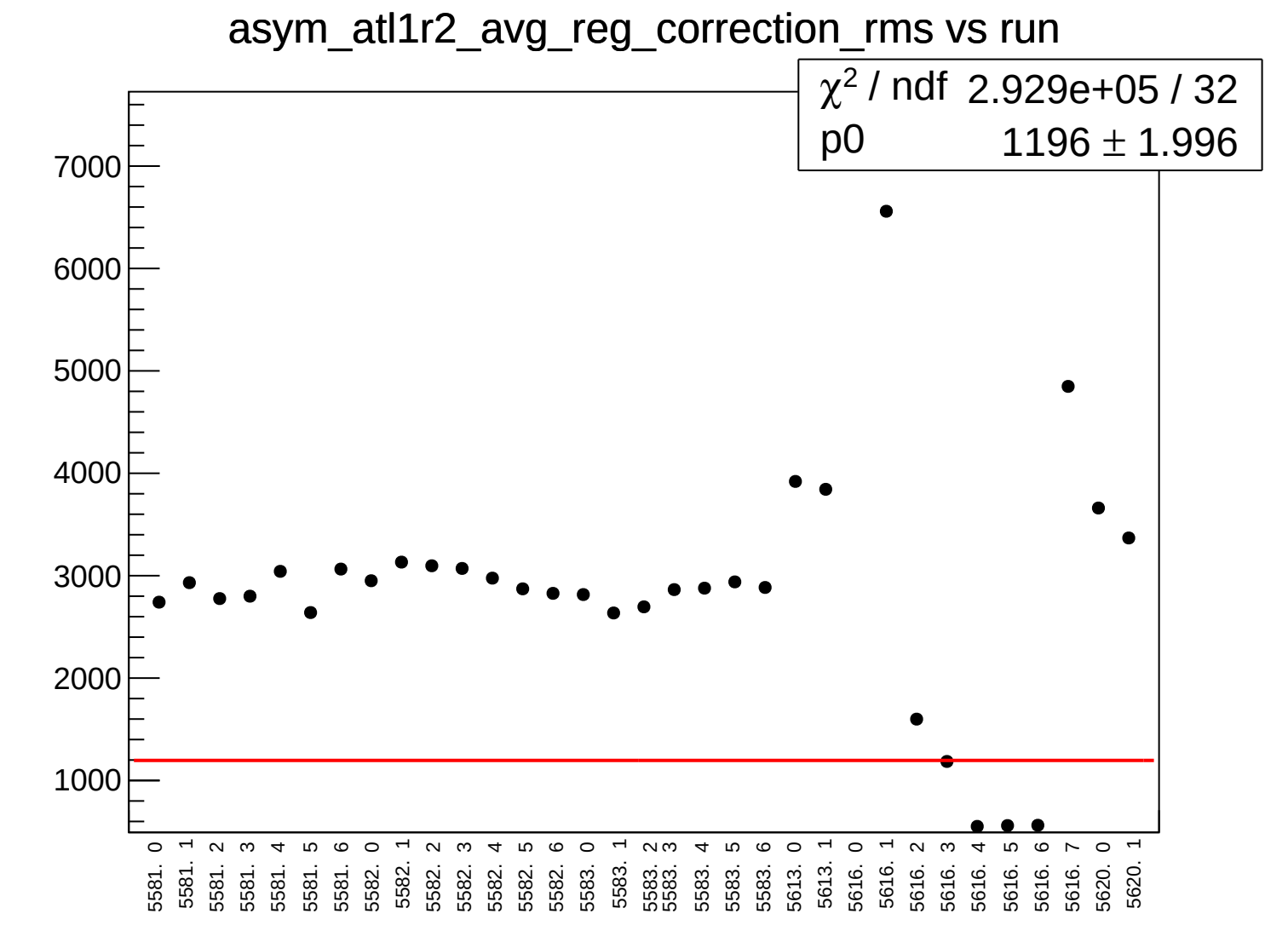

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.906e+05 / 25
p0 2.117e−11 ± 4.438e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

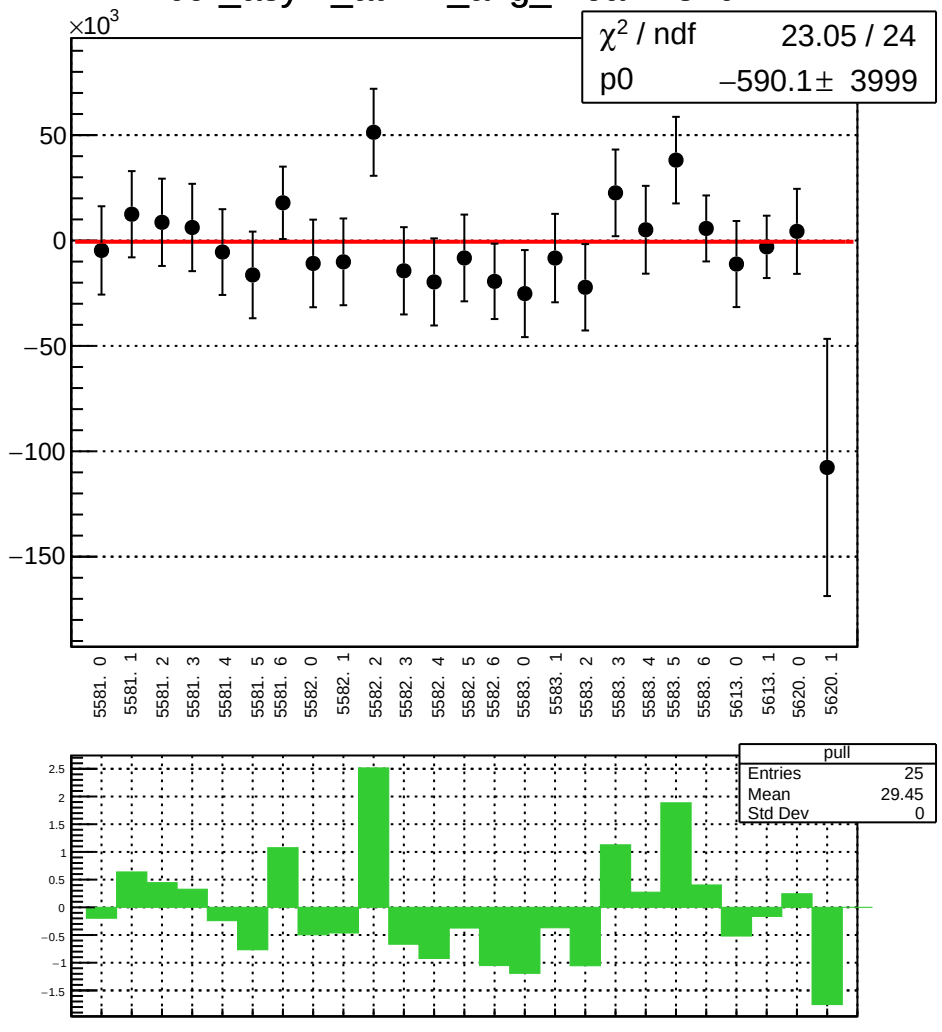

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 23.16 / 24
p0 −615.4 ± 3999
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 29.63
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 25
Mean −0.05274
Std Dev 0.9611
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

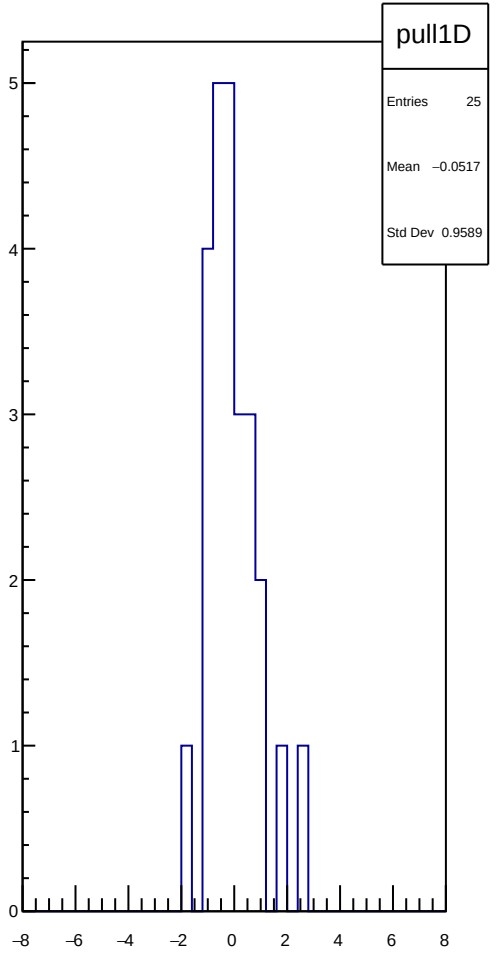

reg_asym_atl1r2_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.065e+05 / 32
p0 1948 ± 2.638
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

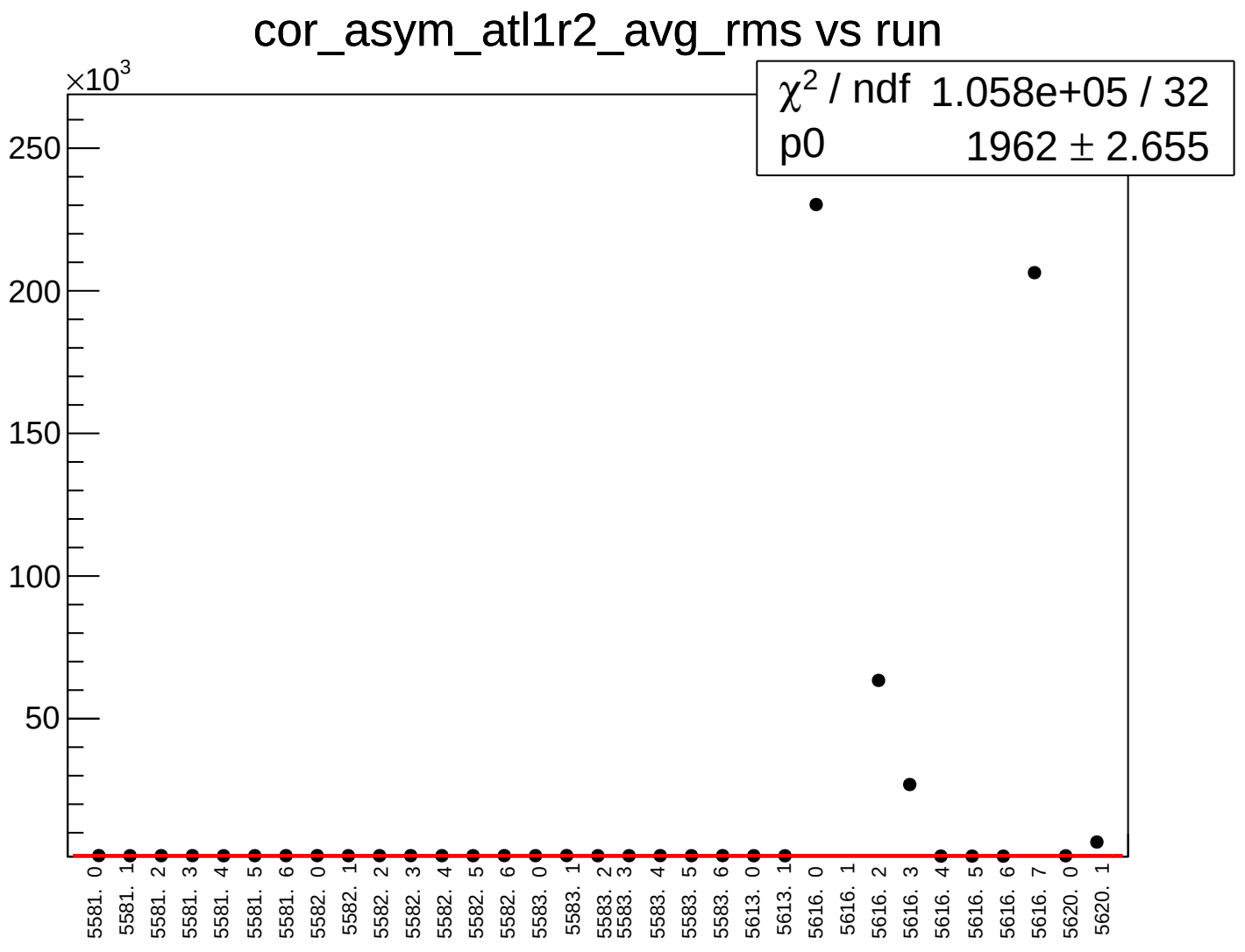

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 32.95 / 32
p0 3298 ± 2823
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 1.549
Std Dev 17.37
2
1
0
−1
−2

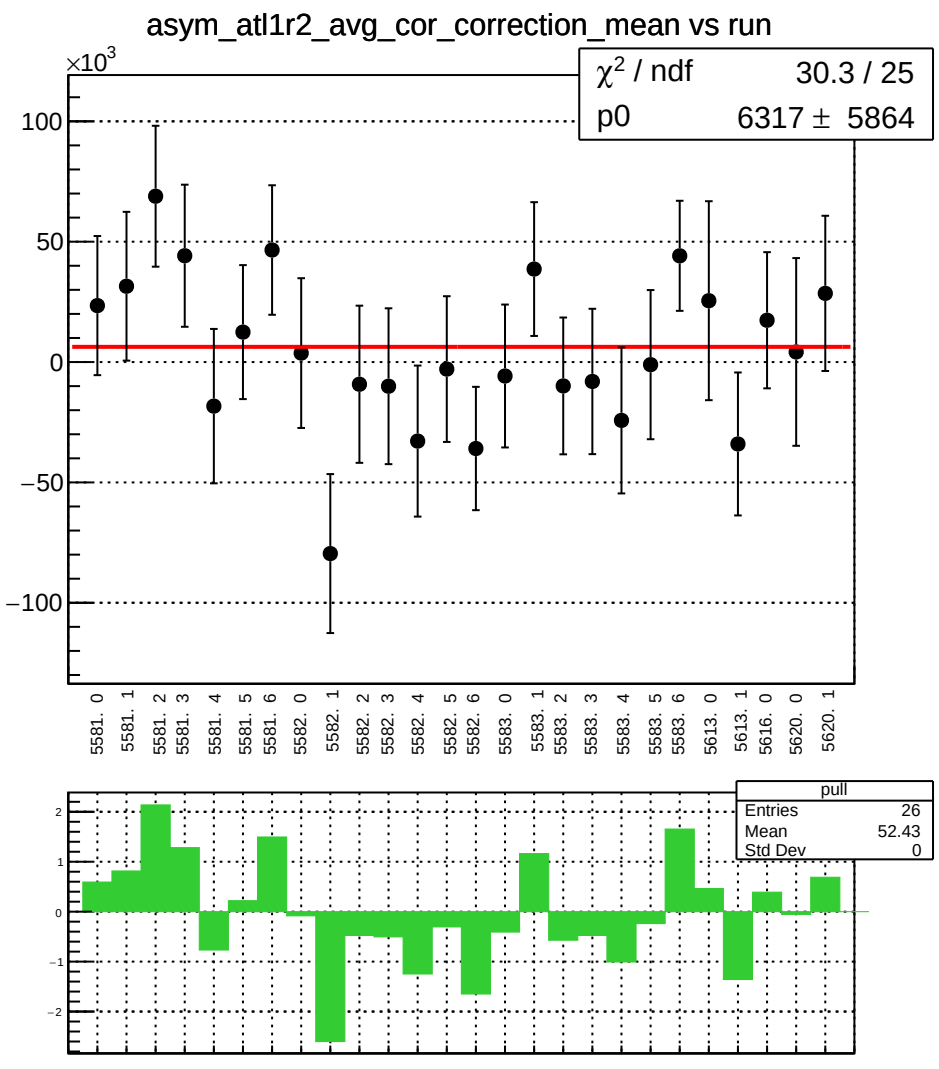

pull1D
Entries 33
Mean 0.06561
Std Dev 0.9971
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

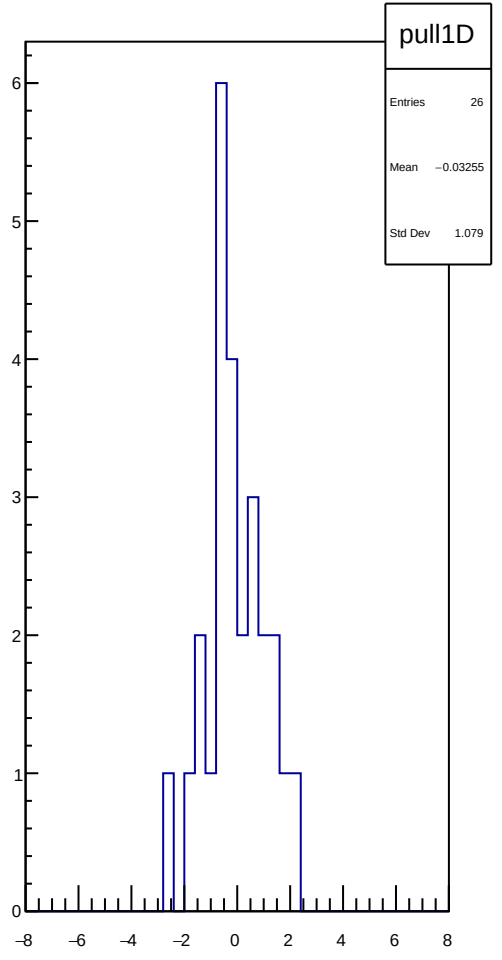

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 2.929e+05 / 32
p0 1196 ± 1.996
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

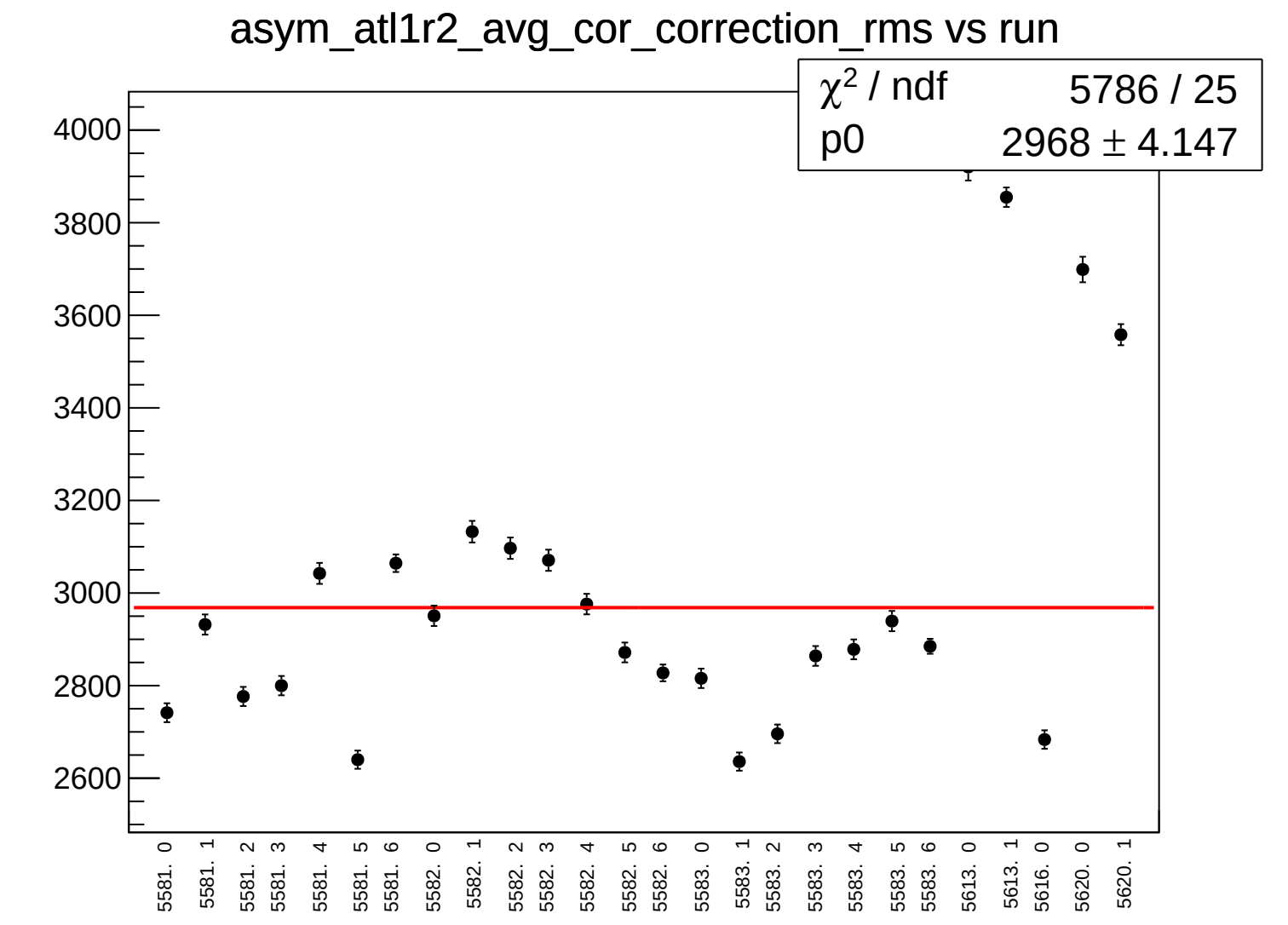

cor_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 23.05 / 24
p0 −590.1± 3999
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 29.45
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

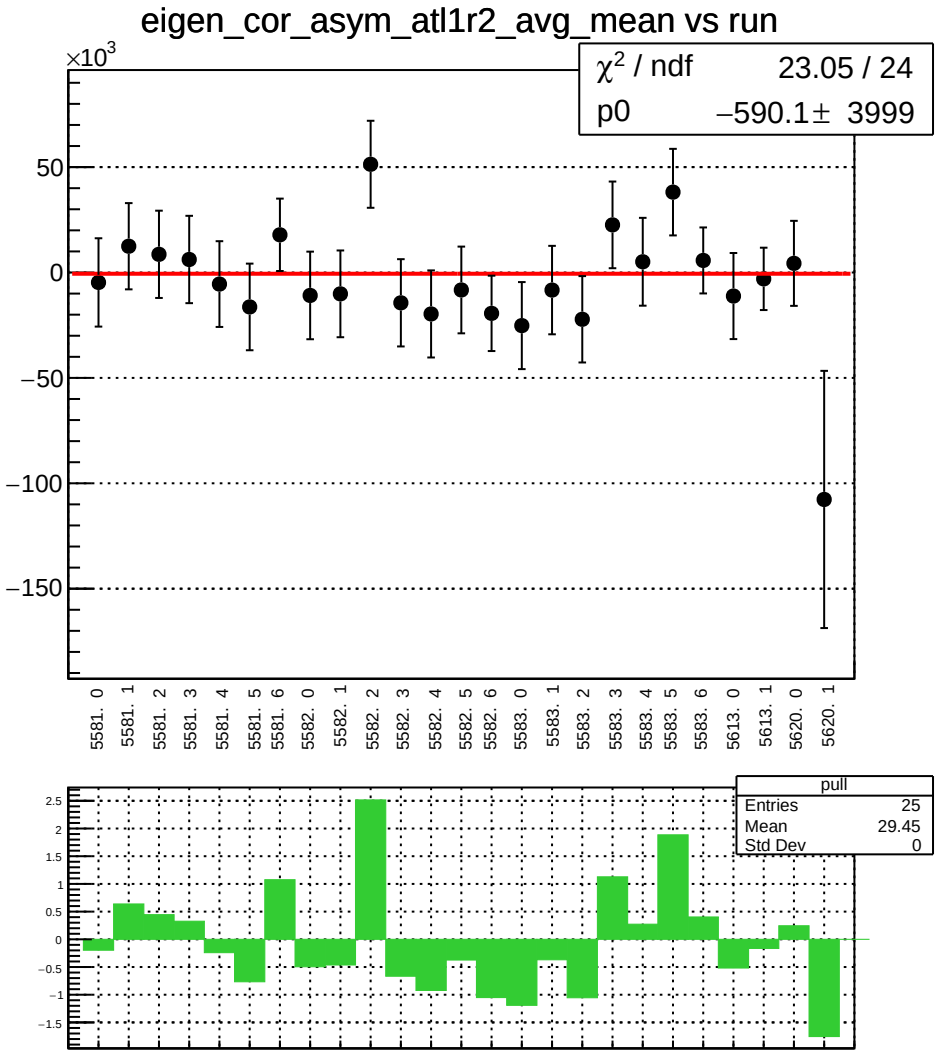

pull1D
Entries 25
Mean −0.0517
Std Dev 0.9589
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

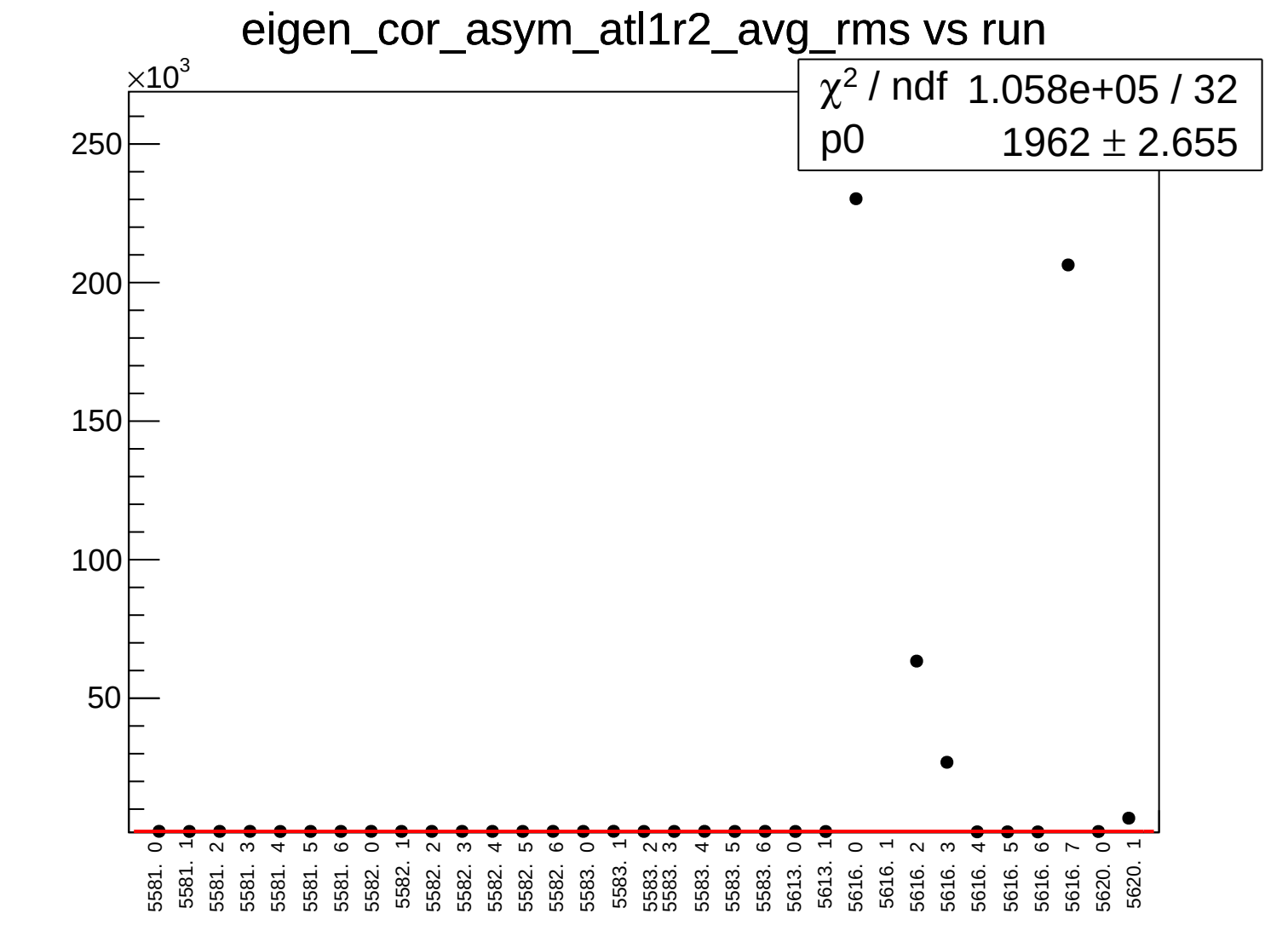

cor_asym_atl1r2_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.058e+05 / 32
p0 1962 ± 2.655
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

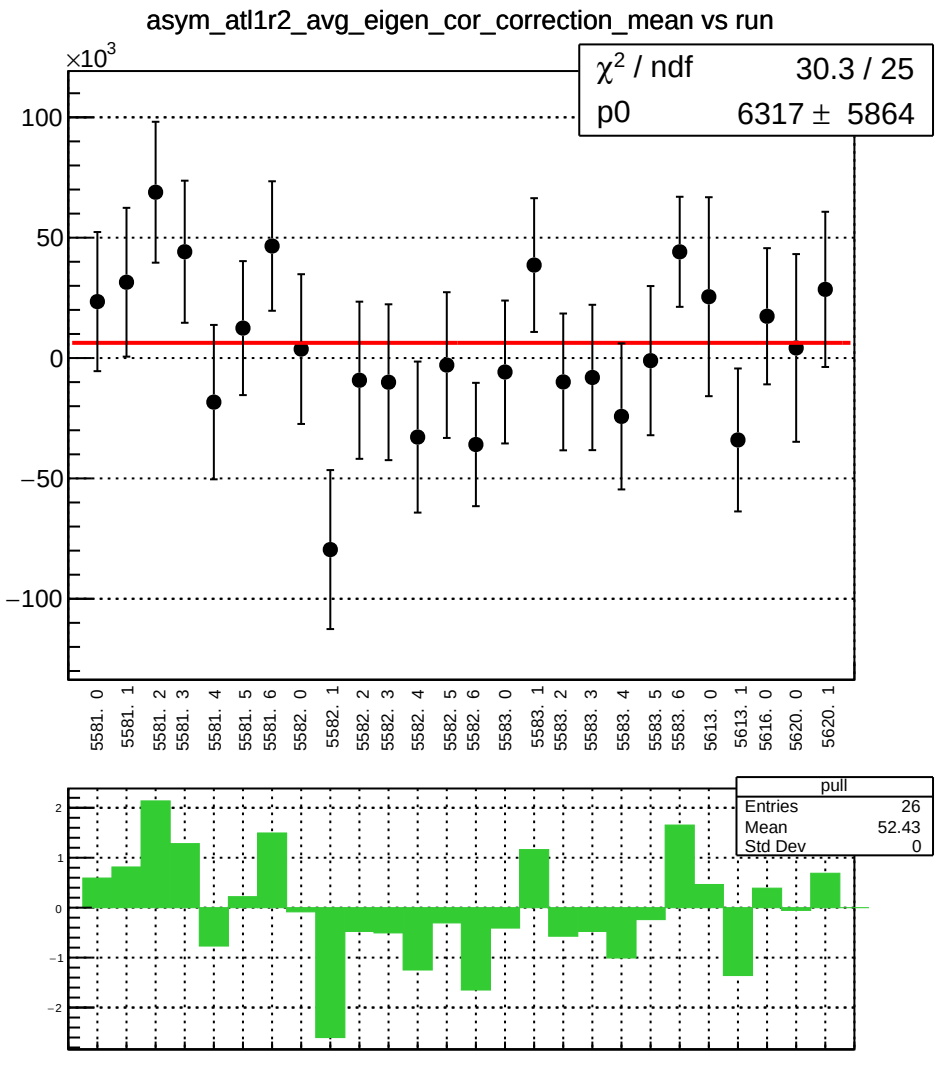

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 30.3 / 25
p0 6317 ± 5864
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 52.43
Std Dev 0
2
1
0
−1
−2

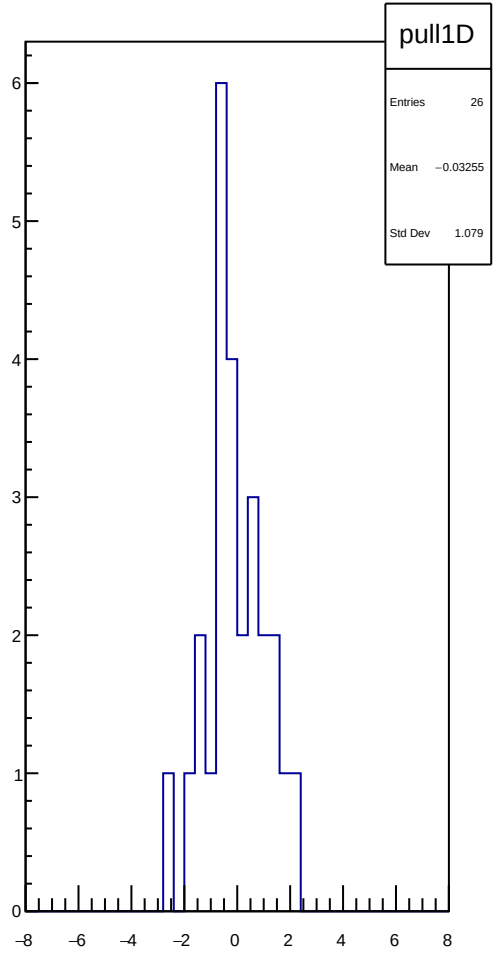

pull1D
Entries 26
Mean −0.03255
Std Dev 1.079
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

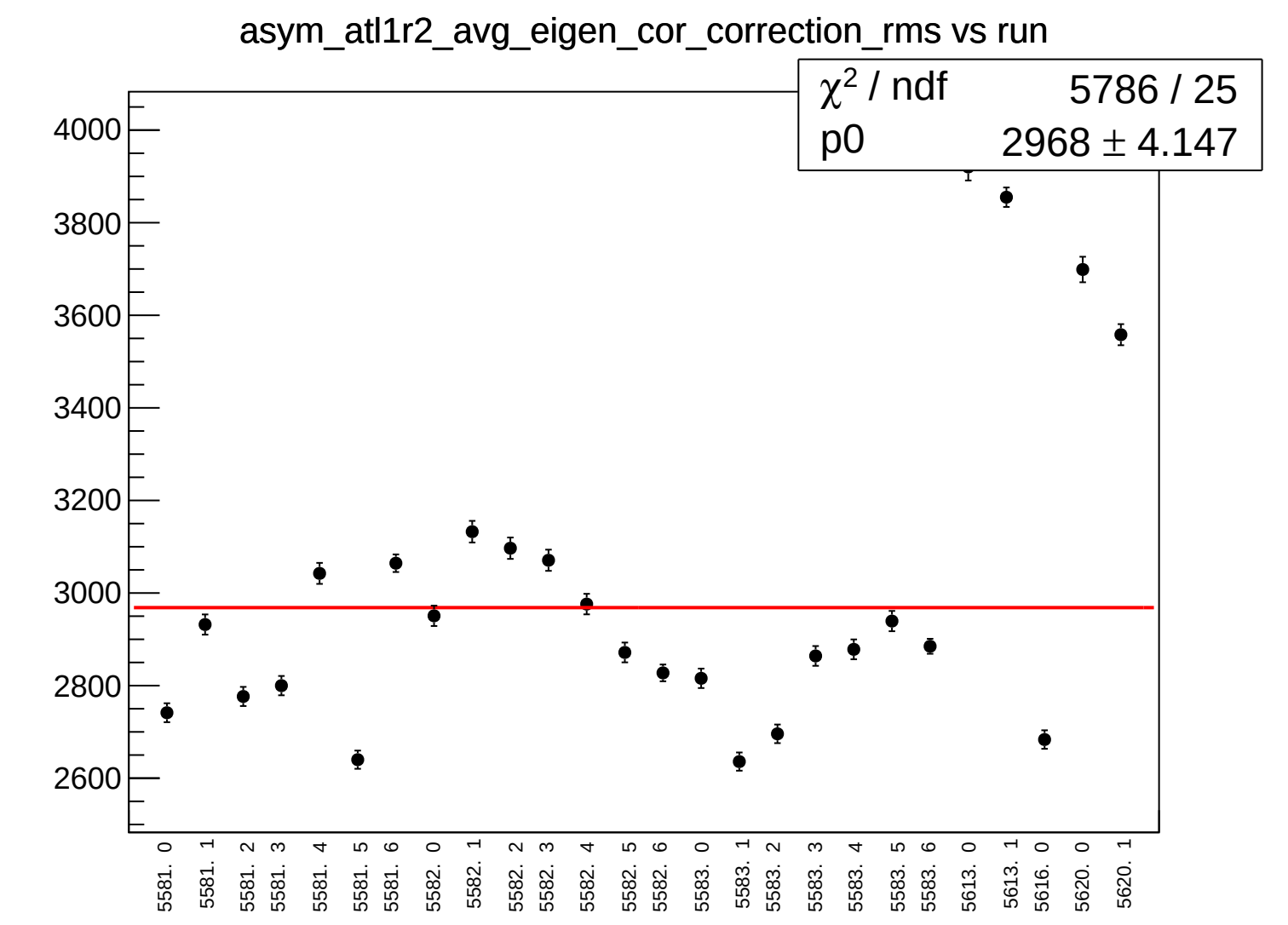

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 5786 / 25
p0 2968 ± 4.147
4000
3800
3600
3400
3200
3000
2800
2600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

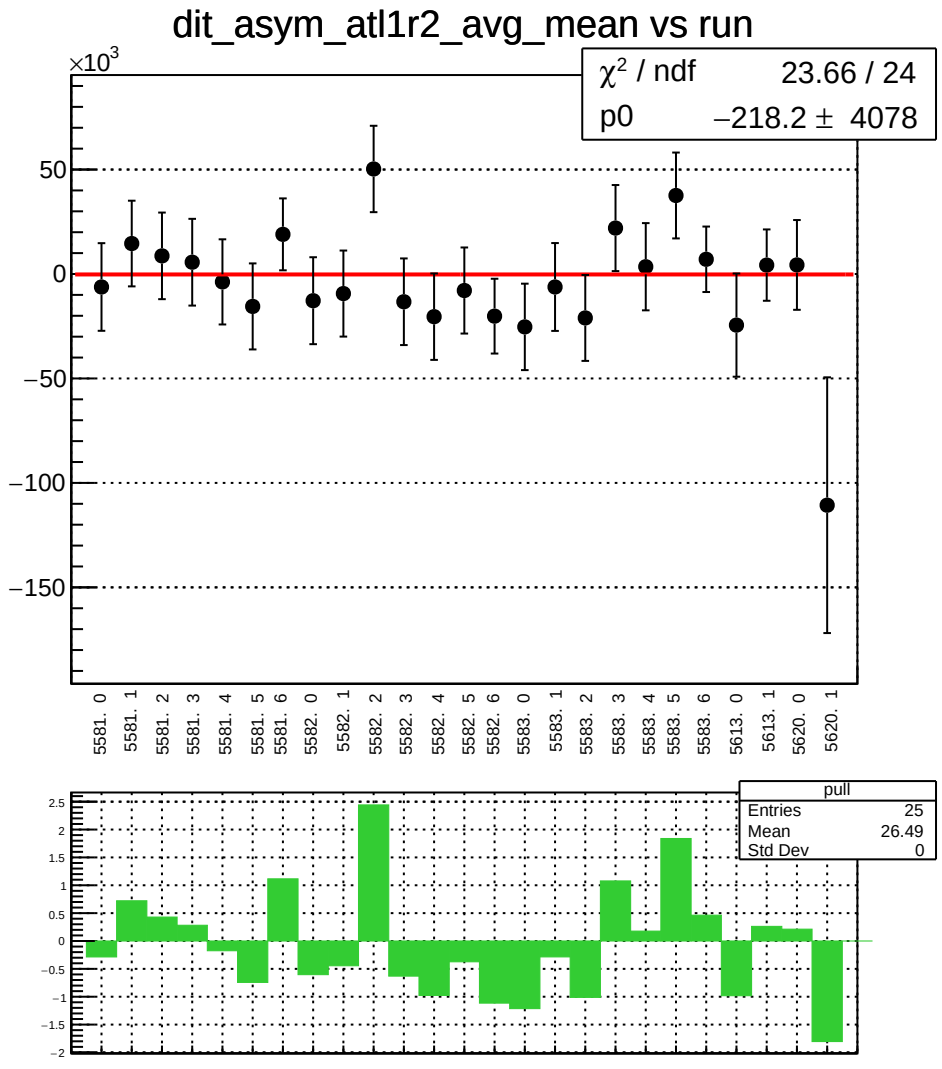

eigen_cor_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 23.05 / 24
p0 −590.1± 3999
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 29.45
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.0517
Std Dev 0.9589
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

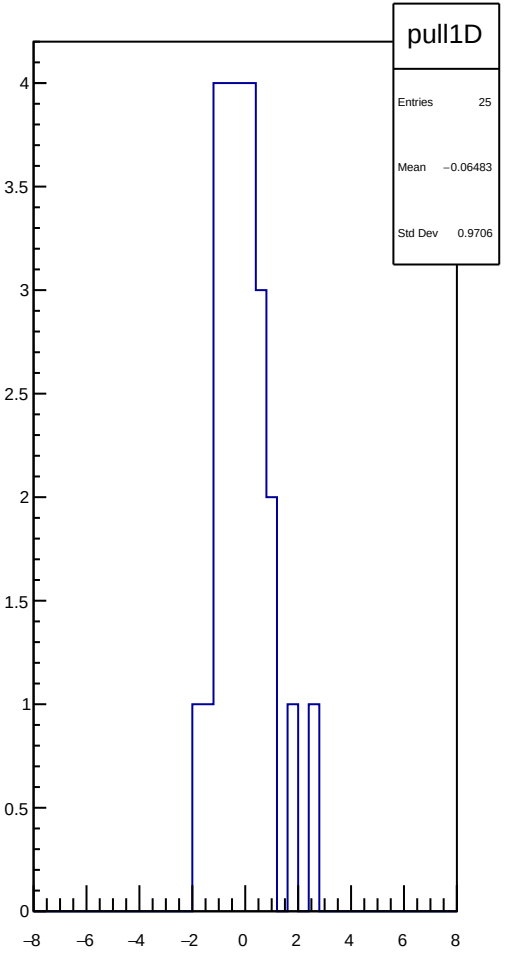

eigen_cor_asym_atl1r2_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.058e+05 / 32
p0 1962 ± 2.655
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

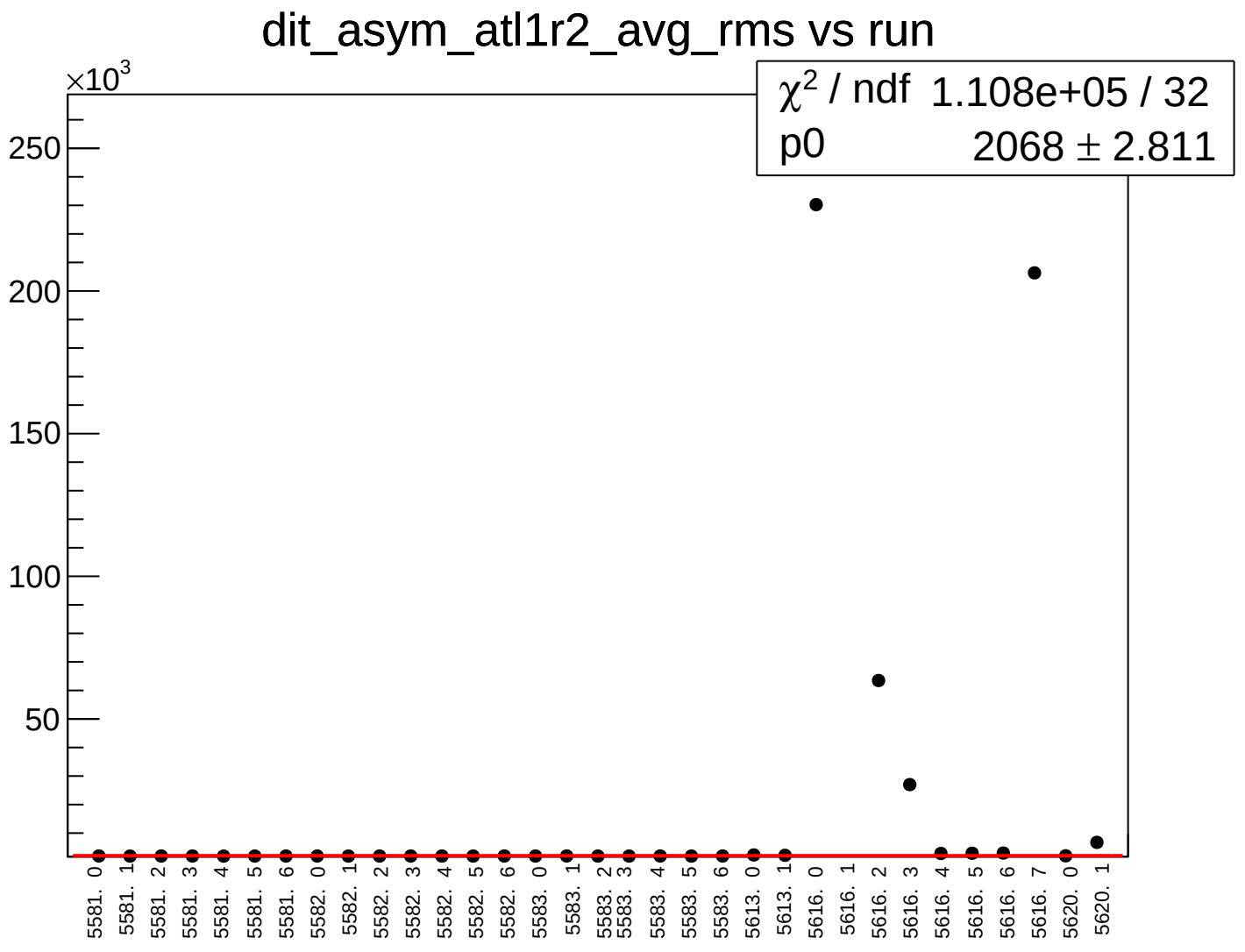

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 30.3 / 25
p0 6317 ± 5864
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 52.43
Std Dev 0
2
1
0
−1
−2

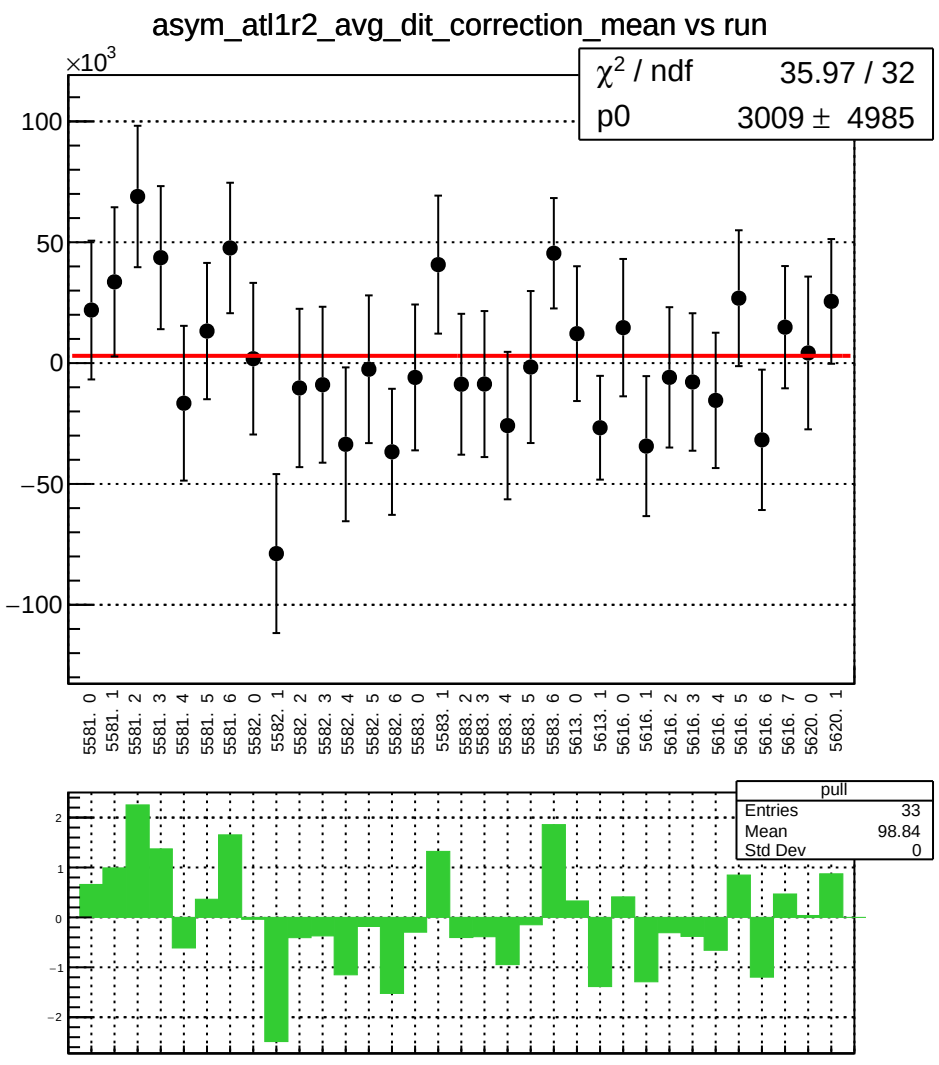

pull1D
Entries 26
Mean −0.03255
Std Dev 1.079
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

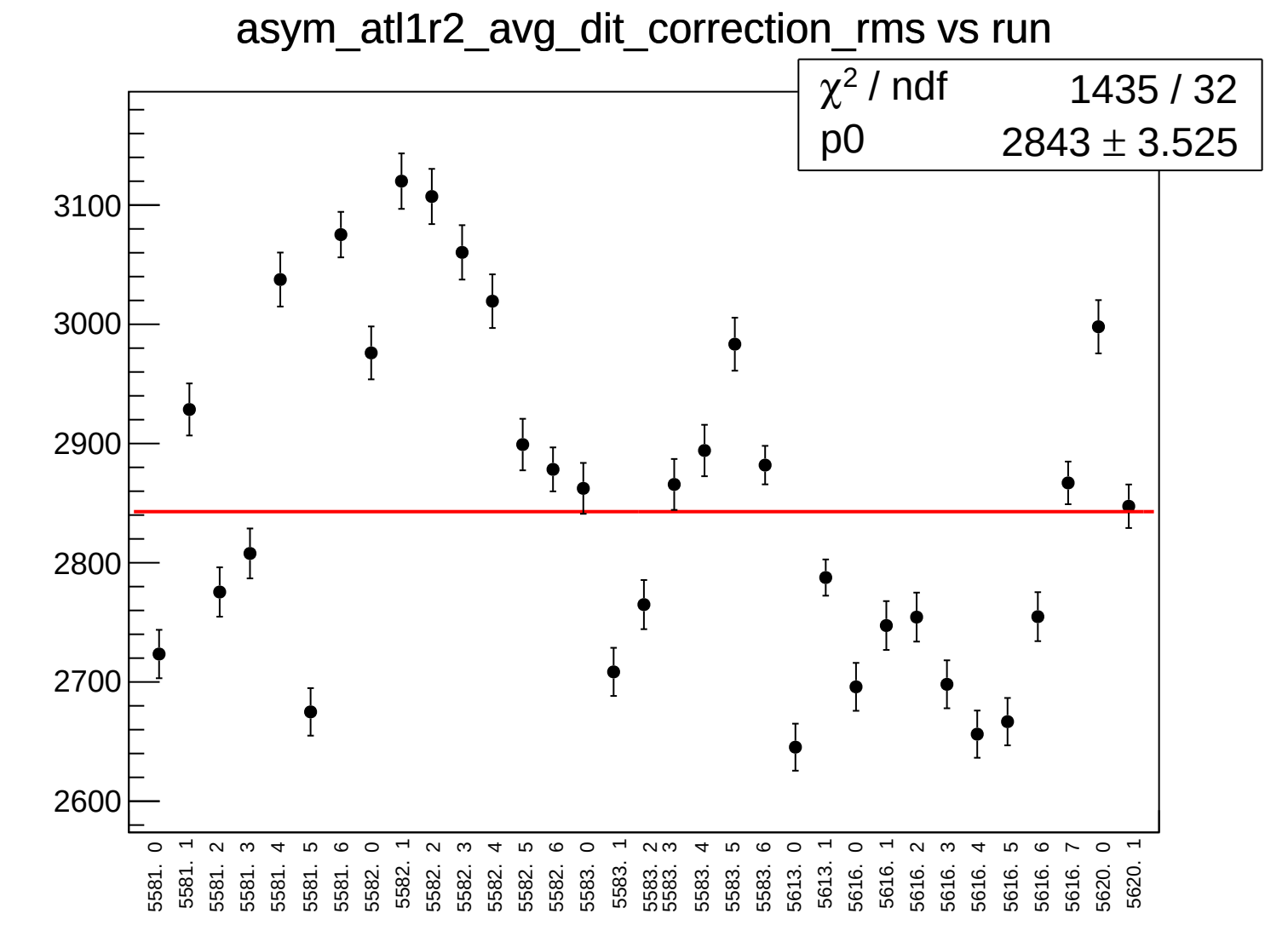

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5786 / 25
p0 2968 ± 4.147
4000
3800
3600
3400
3200
3000
2800
2600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

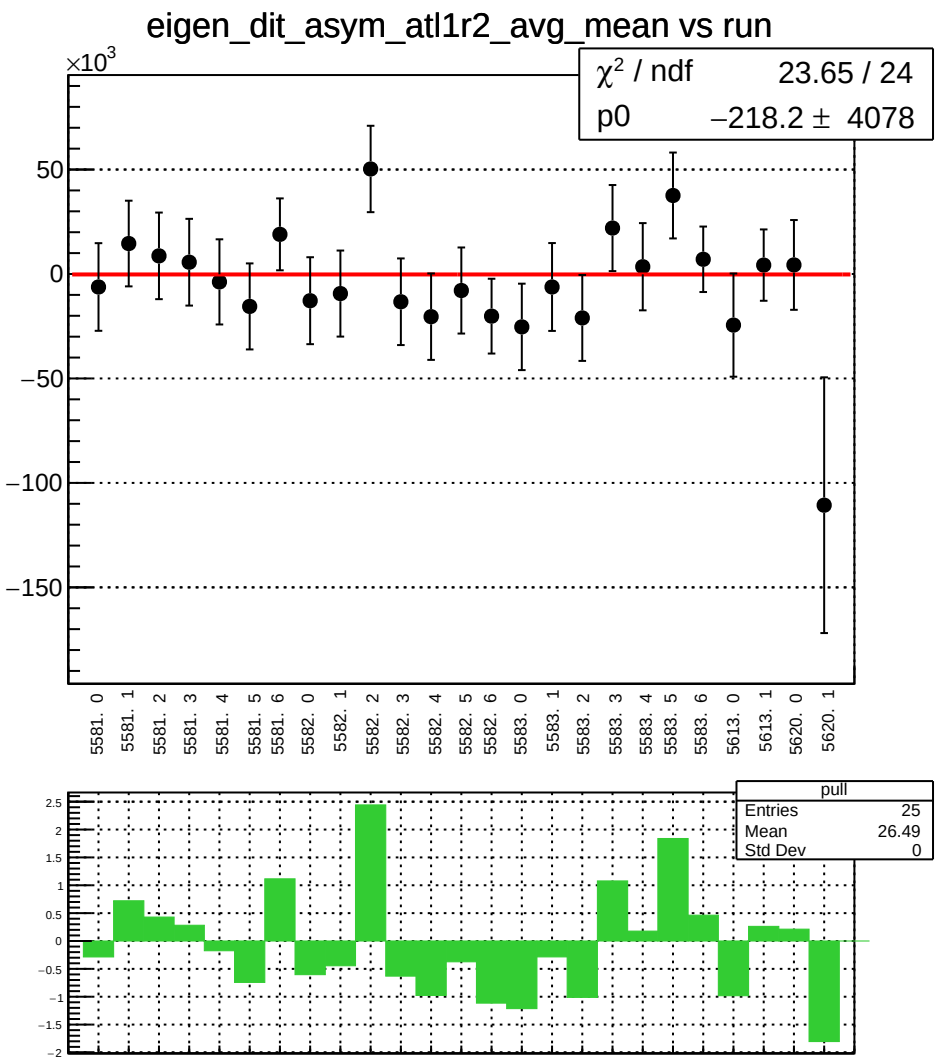

dit_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 23.66 / 24
p0 −218.2 ± 4078
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 26.49
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

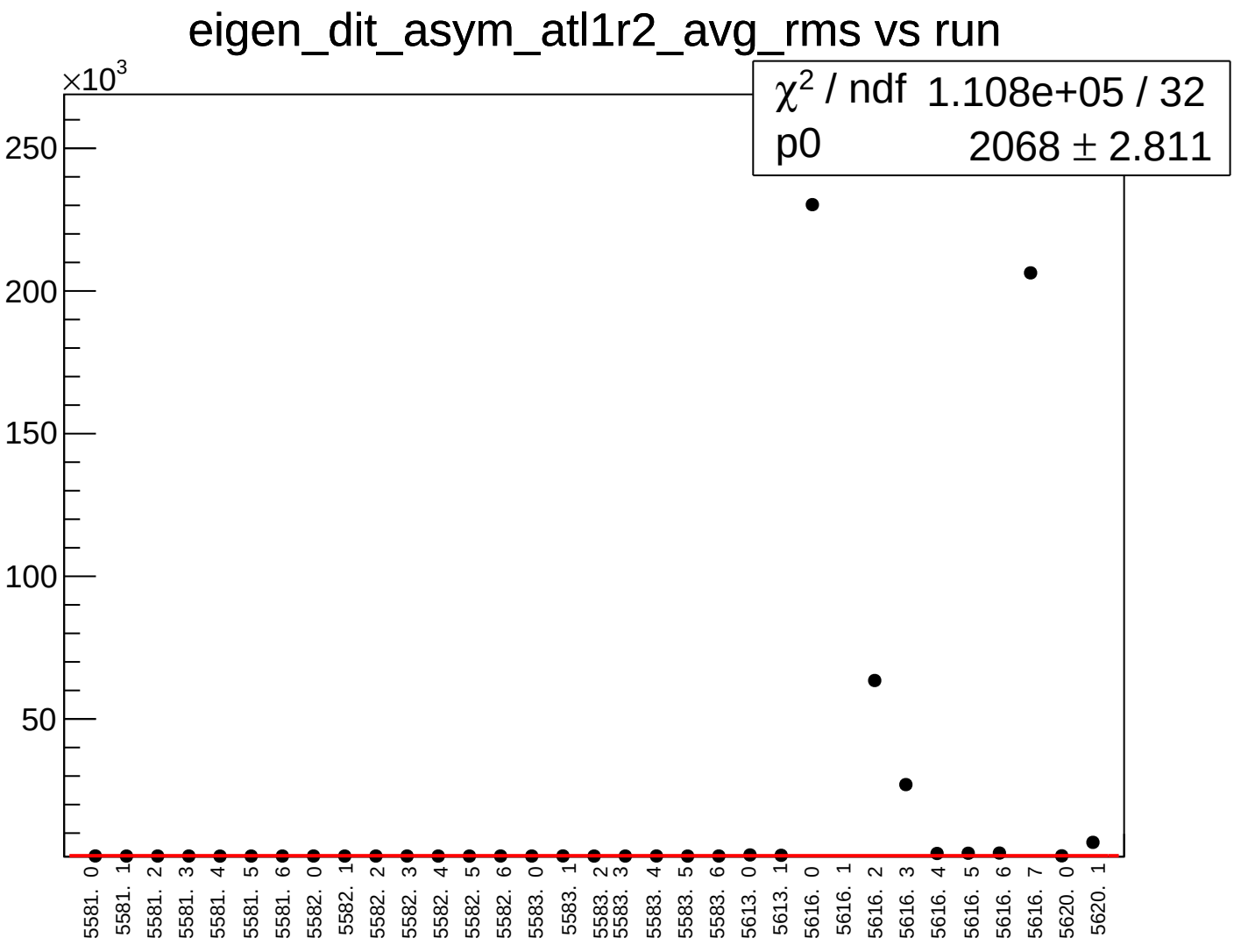

pull1D
Entries 25
Mean −0.06483
Std Dev 0.9706
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

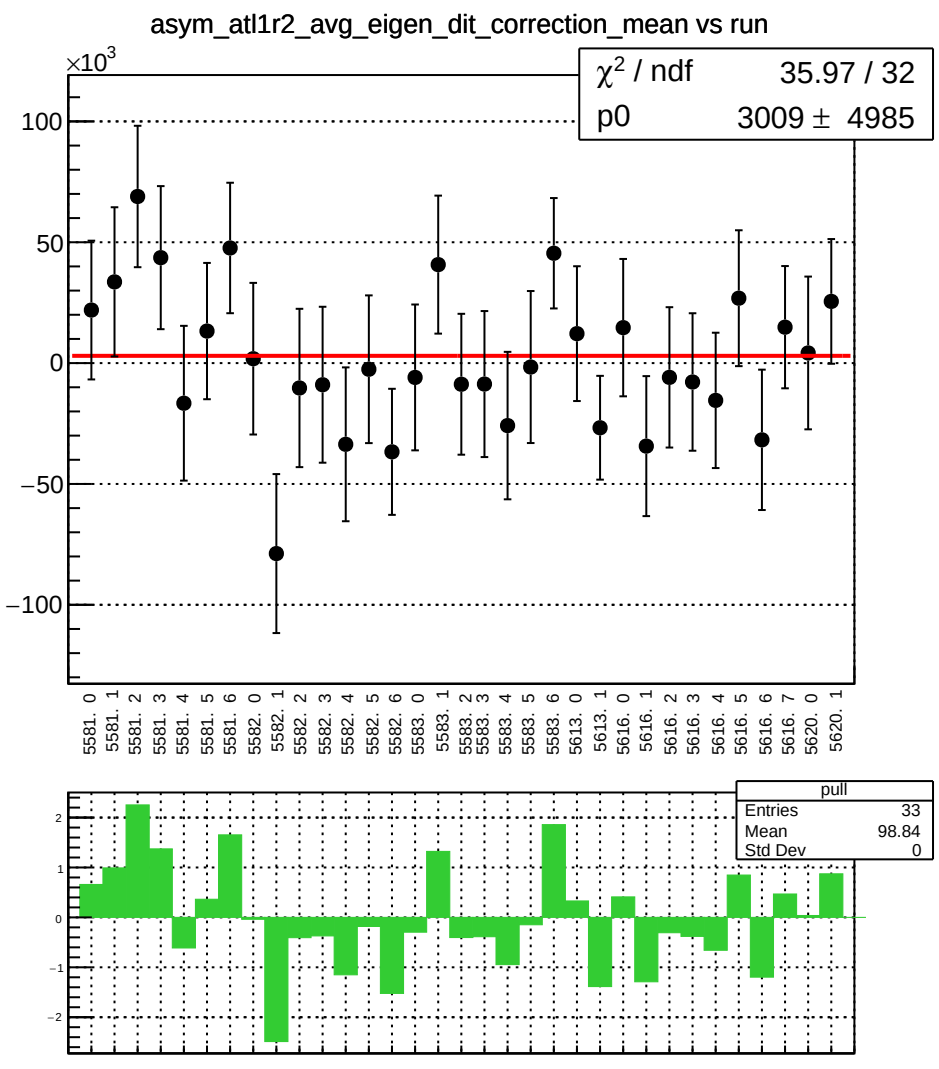

dit_asym_atl1r2_avg_rms vs run
×10^3
χ^2 / ndf 1.108e+05 / 32
p0 2068 ± 2.811
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

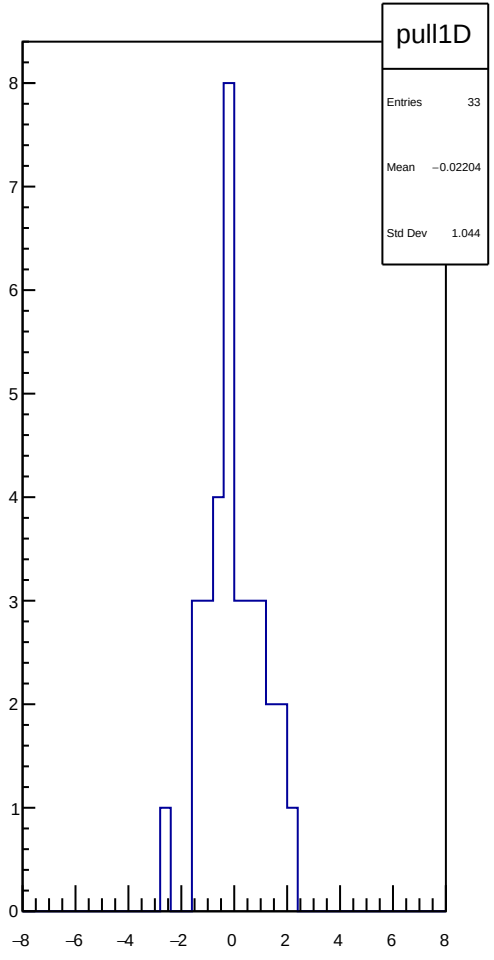

asym_atl1r2_avg_dit_correction_mean vs run
χ² / ndf 35.97 / 32
p0 3009 ± 4985
×10³
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 98.84
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.02204
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

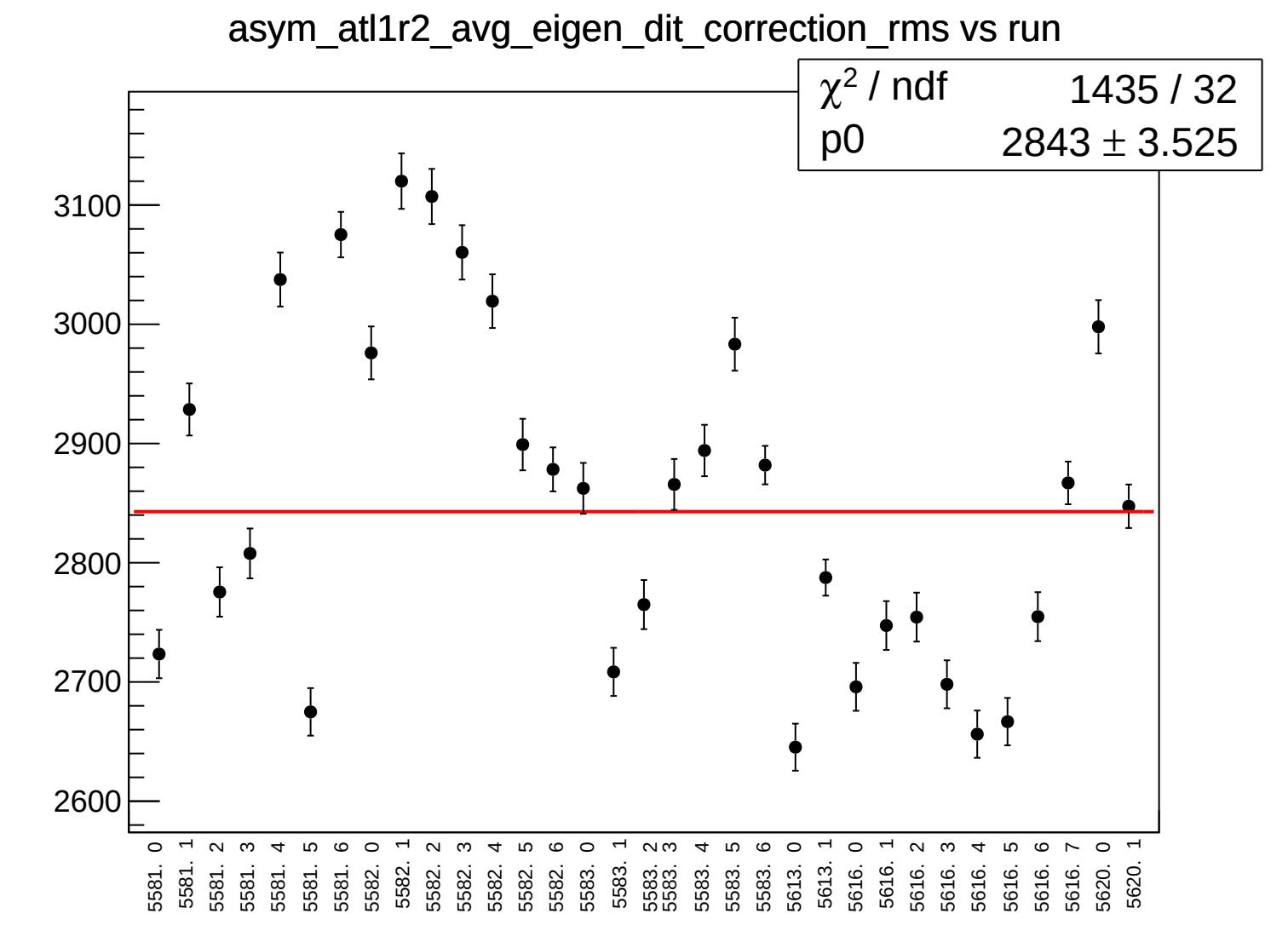

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 1435 / 32
p0 2843 ± 3.525
3100
3000
2900
2800
2700
2600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

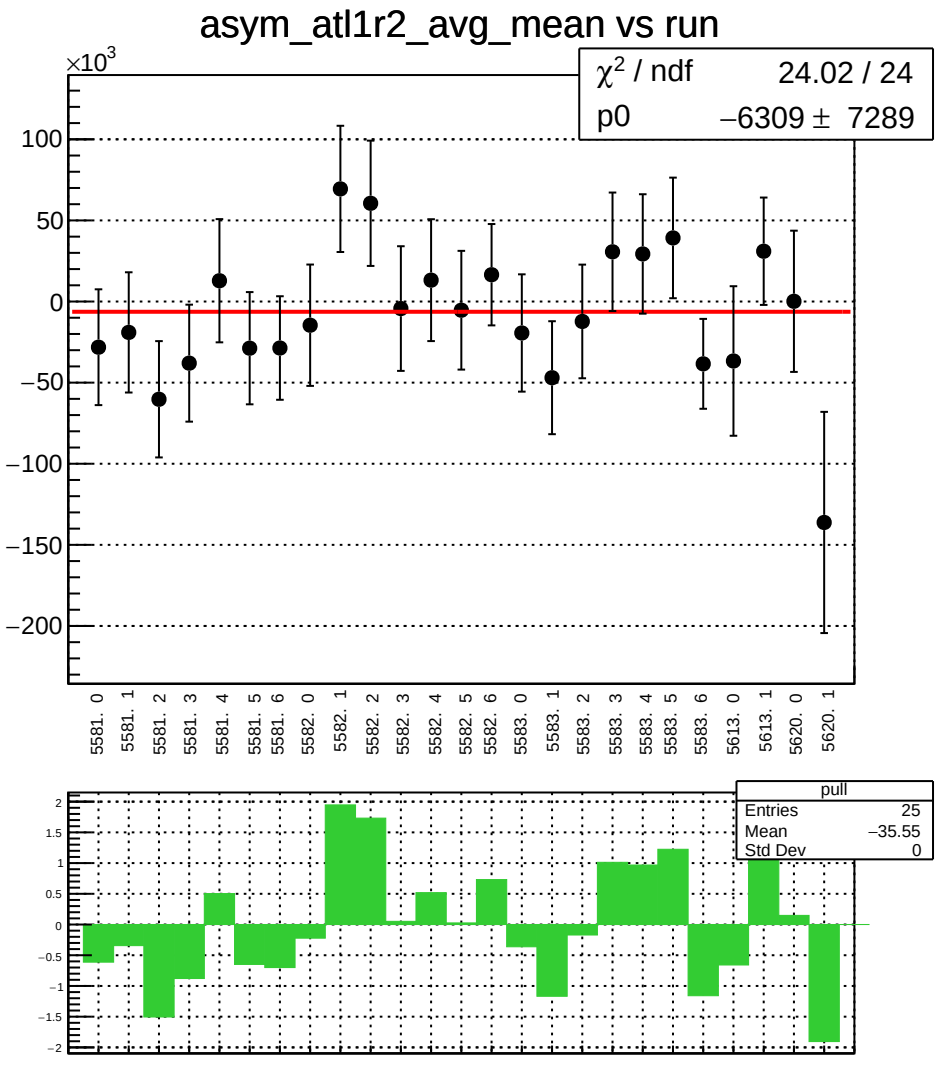

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 23.65 / 24
p0 −218.2 ± 4078
×10³
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 26.49
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 25
Mean −0.06483
Std Dev 0.9706
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

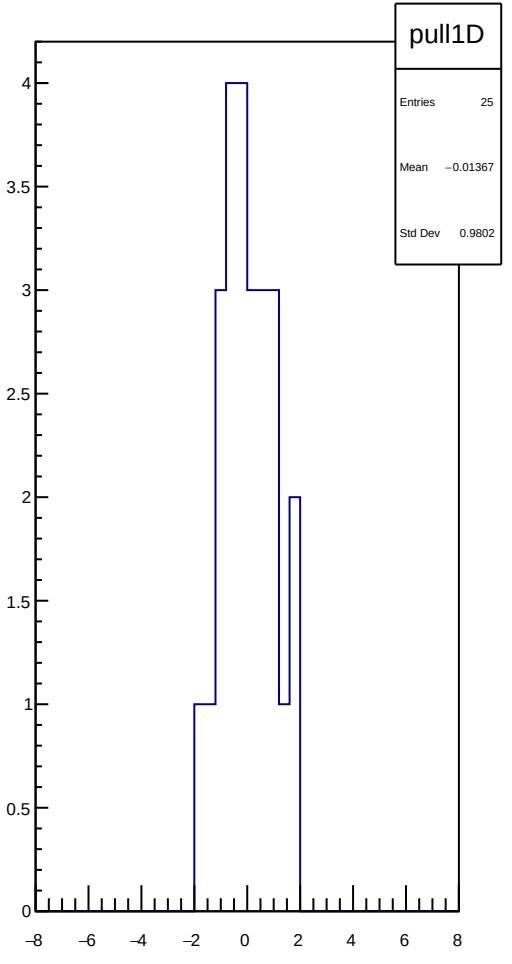

eigen_dit_asym_atl1r2_avg_rms vs run
×10^3
250
200
150
100
50
χ^2 / ndf 1.108e+05 / 32
p0 2068 ± 2.811
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

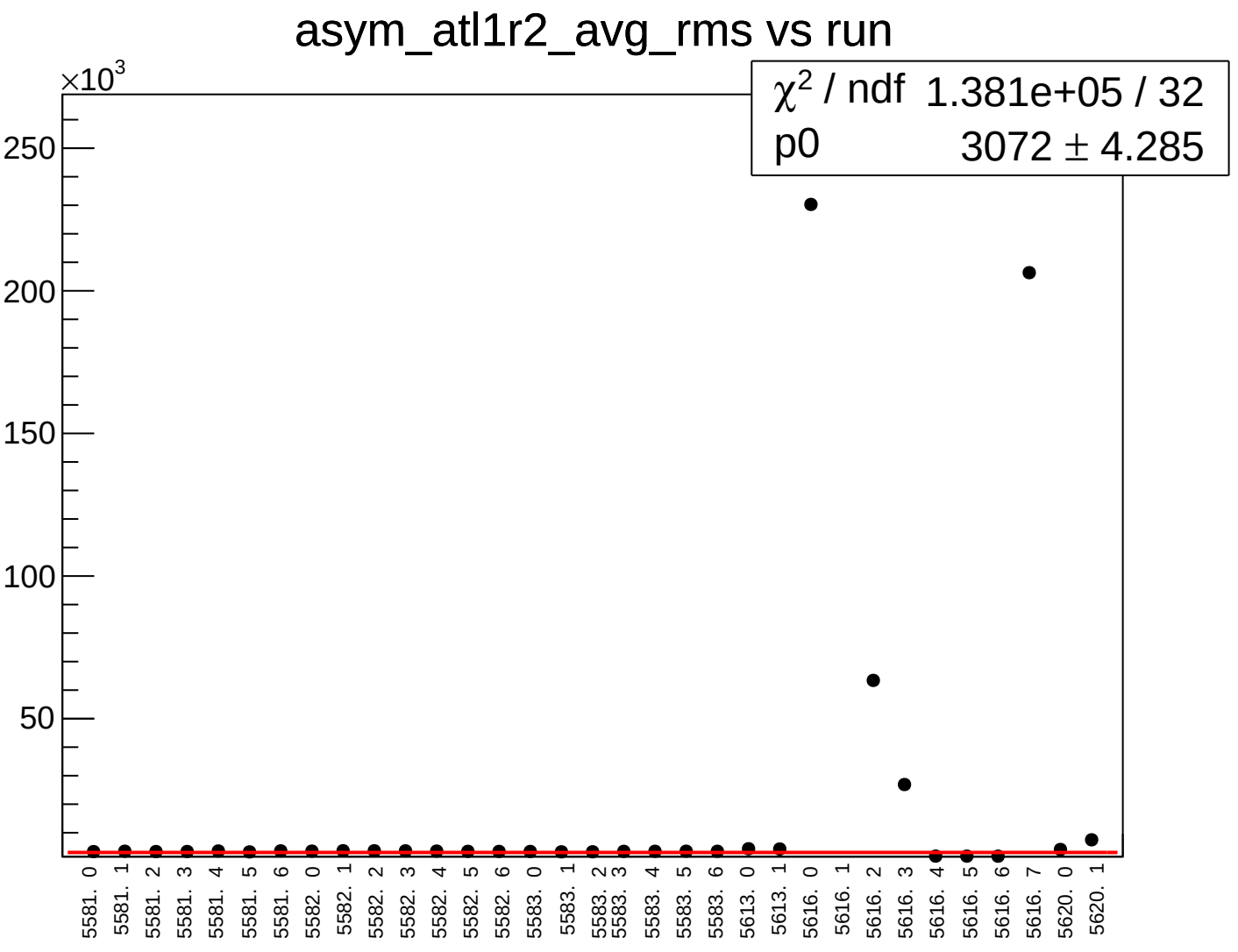

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 35.97 / 32
p0 3009 ± 4985
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 98.84
Std Dev 0
2
1
0
−1
−2

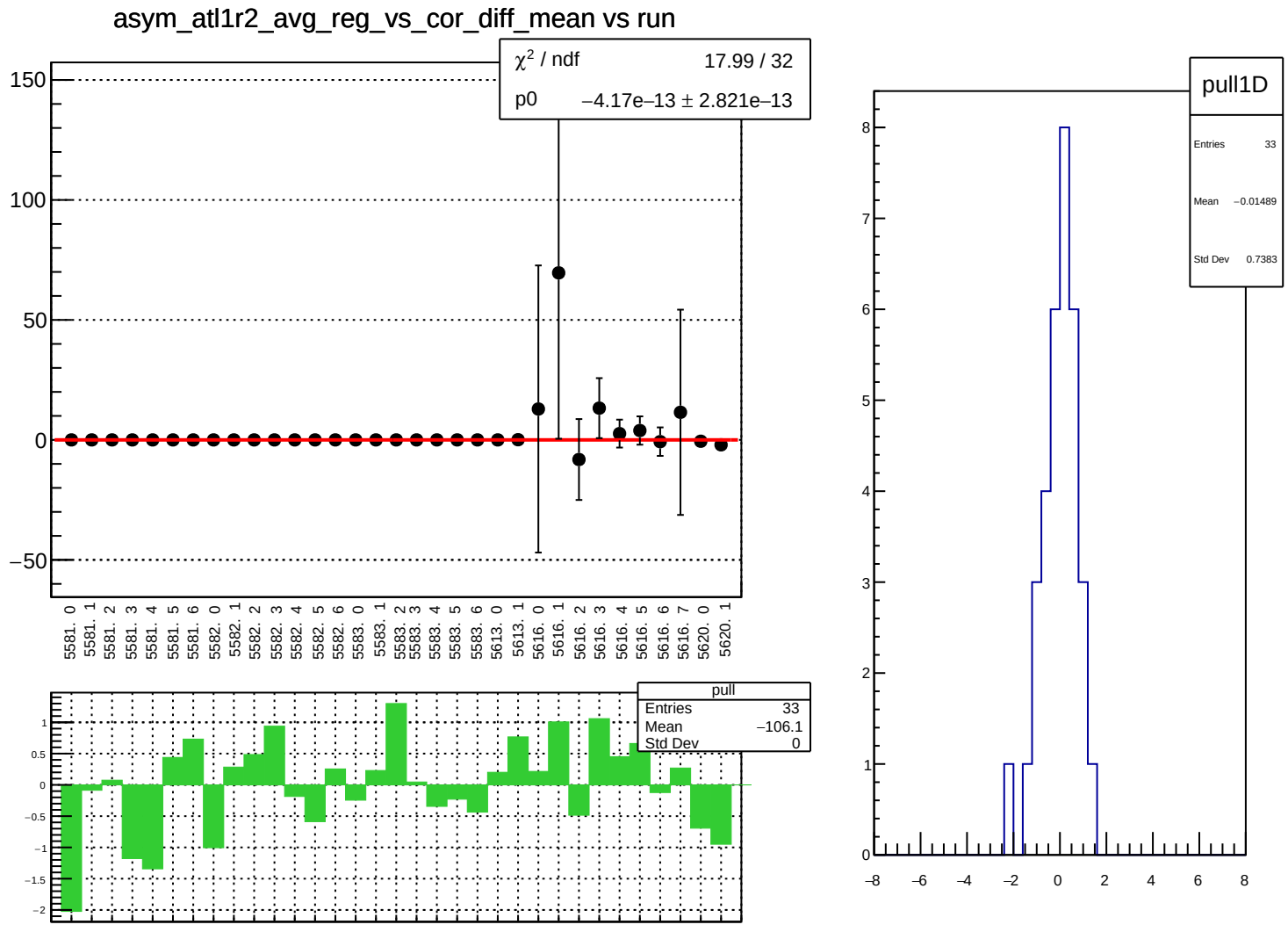

pull1D
Entries 33
Mean −0.02204
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

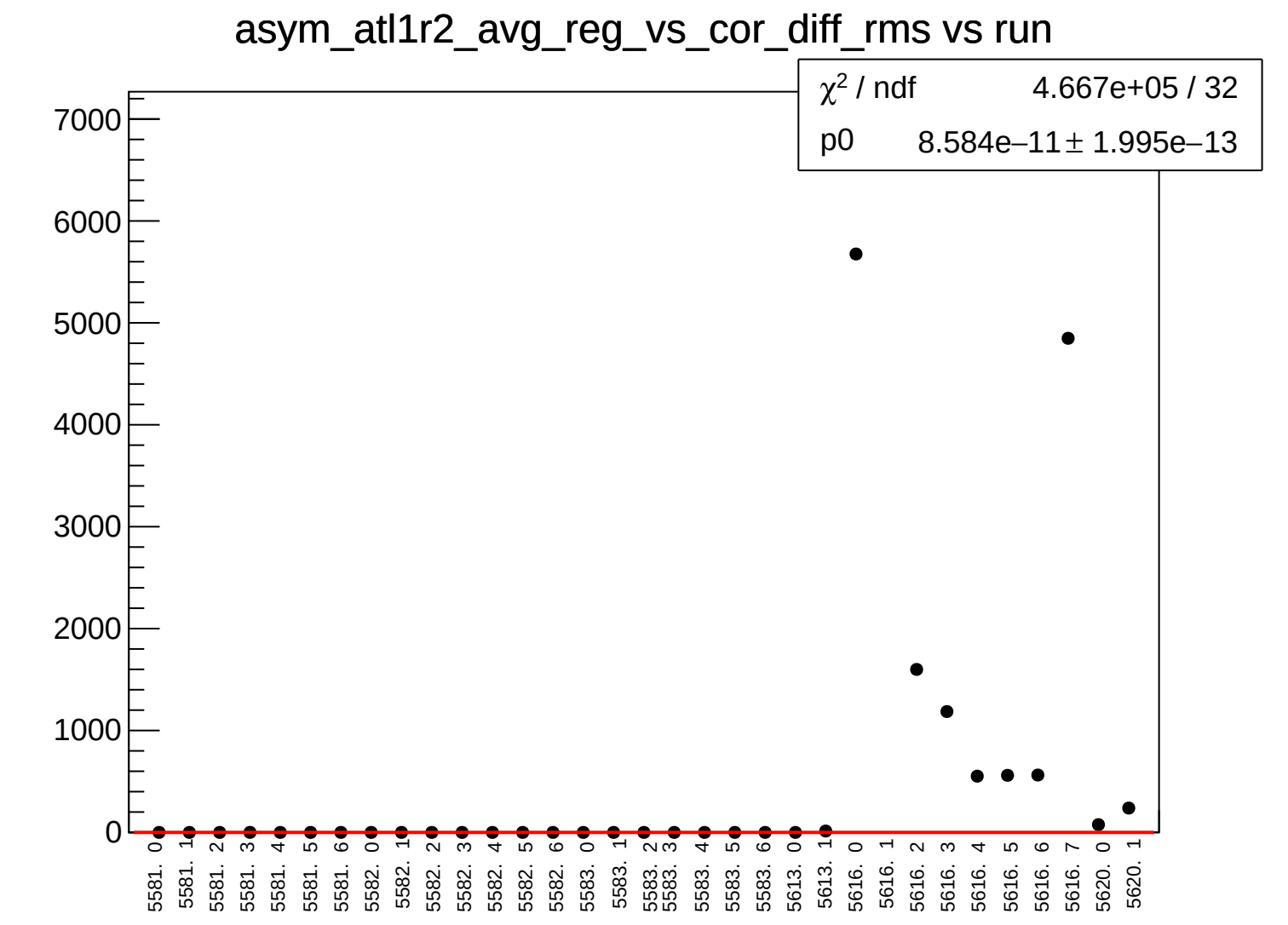

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1435 / 32
p0 2843 ± 3.525
3100
3000
2900
2800
2700
2600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

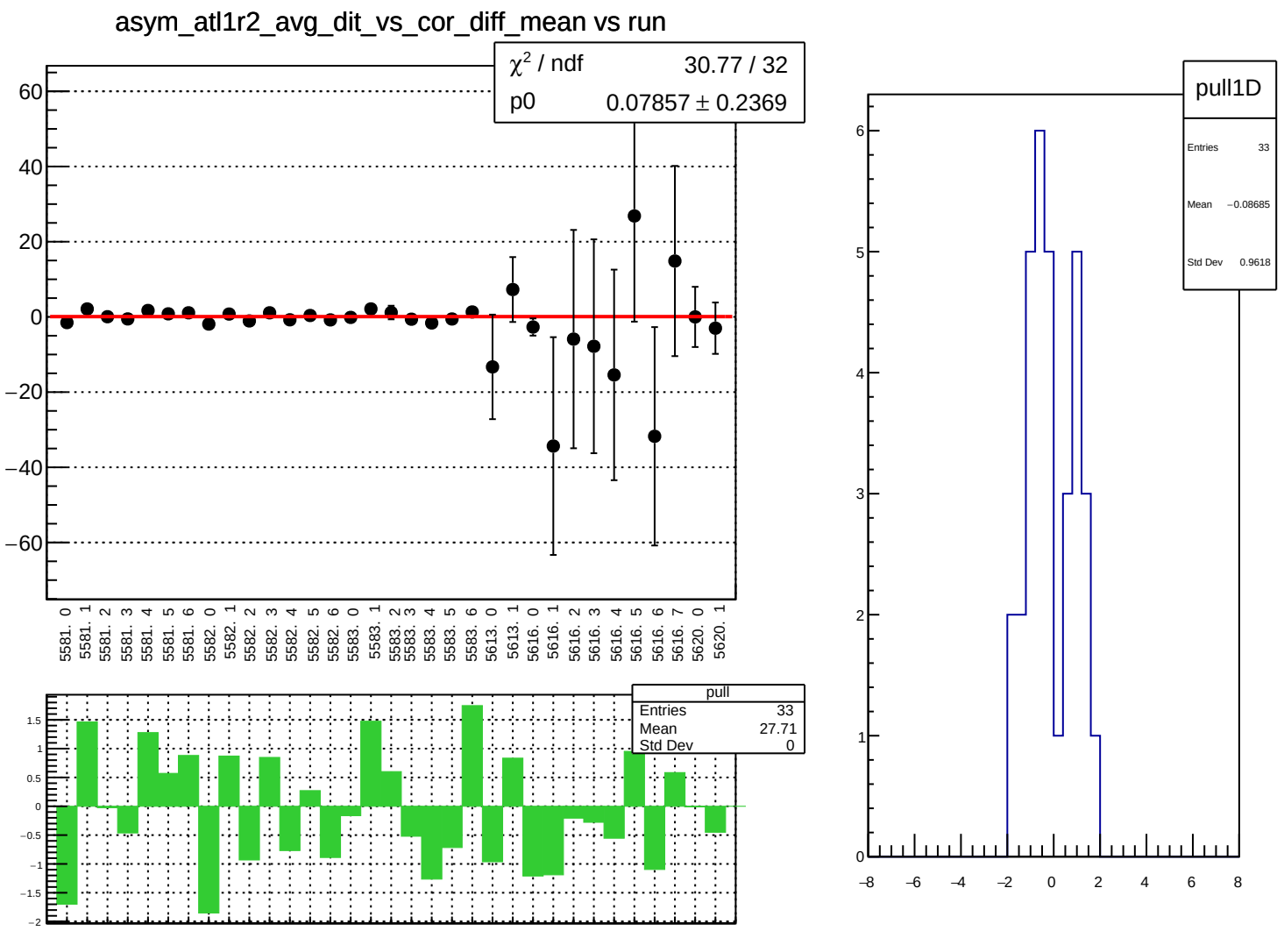

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 24.02 / 24
p0 −6309 ± 7289
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −35.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

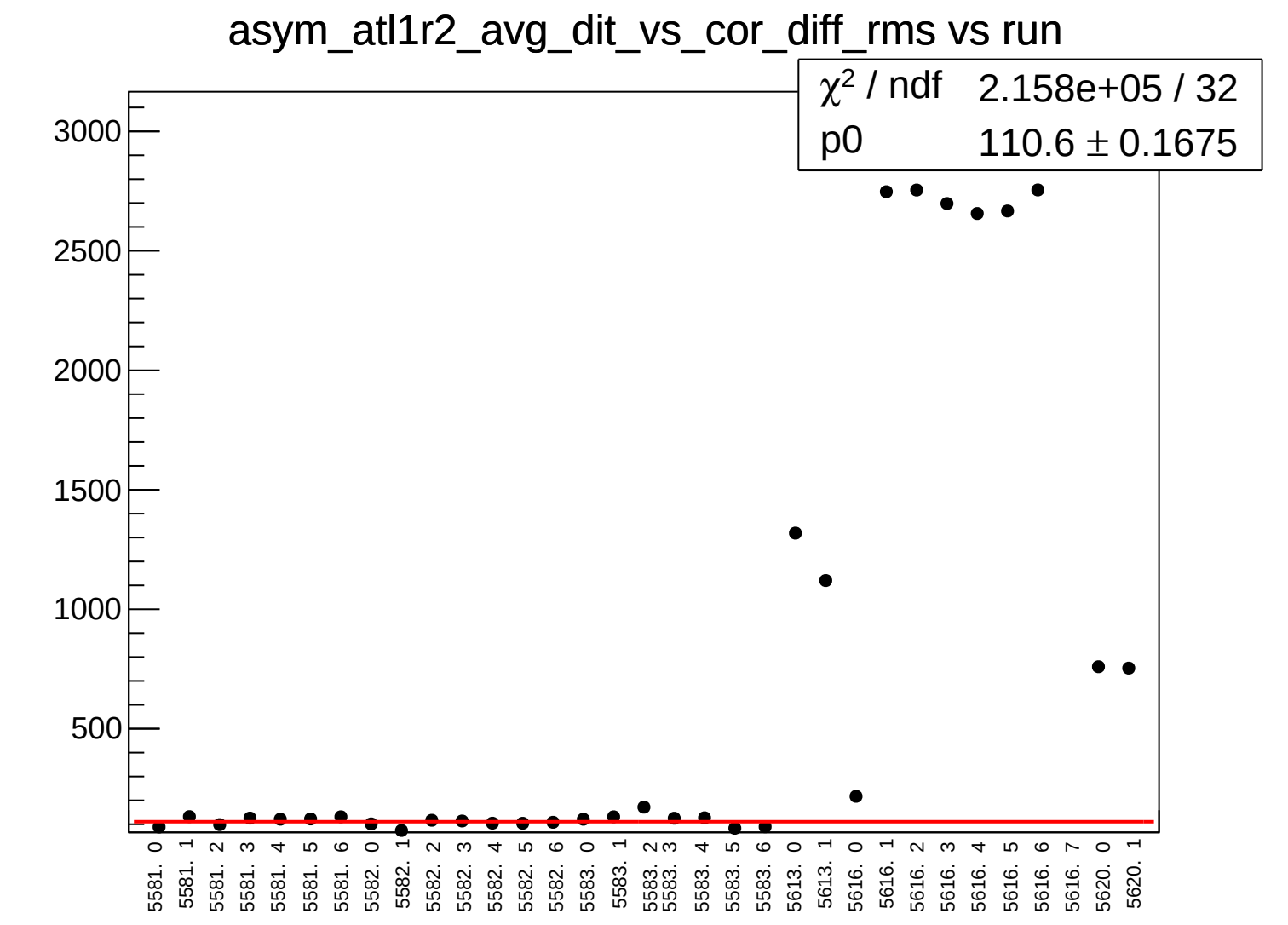

pull1D
Entries 25
Mean −0.01367
Std Dev 0.9802
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

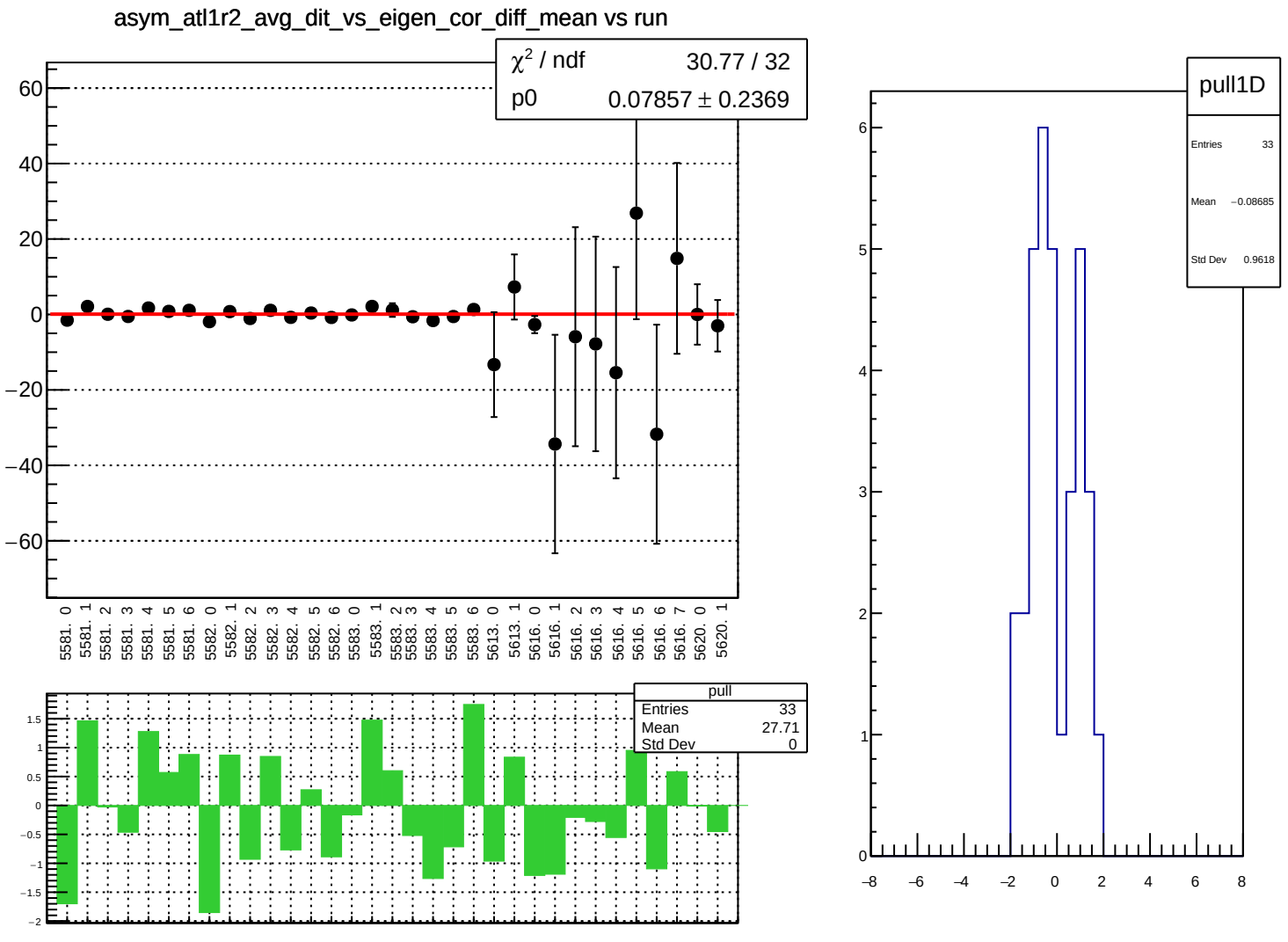

asym_atl1r2_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.381e+05 / 32
p0 3072 ± 4.285
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

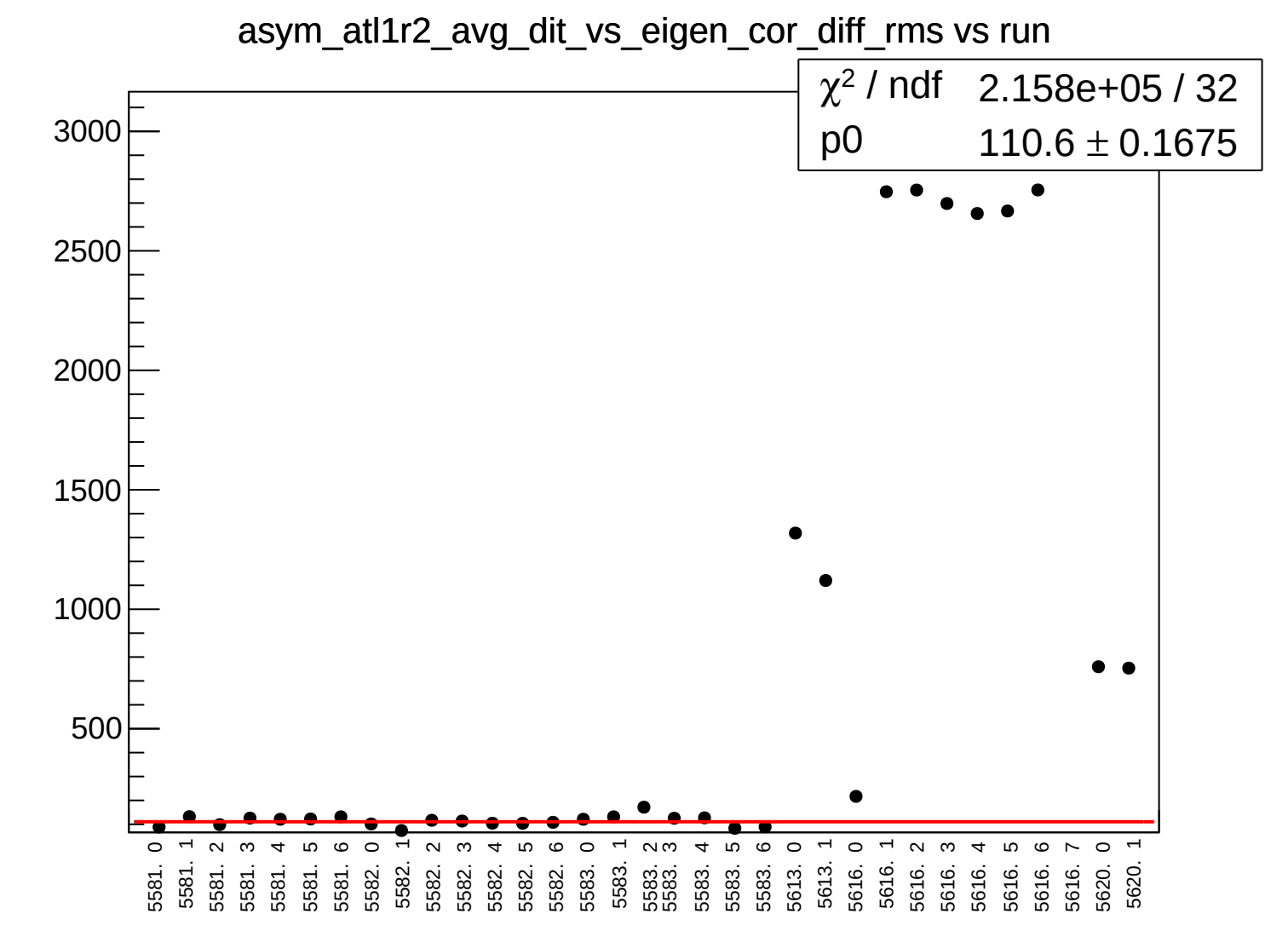

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 17.99 / 32
p0 −4.17e−13 ± 2.821e−13
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −106.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01489
Std Dev 0.7383
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

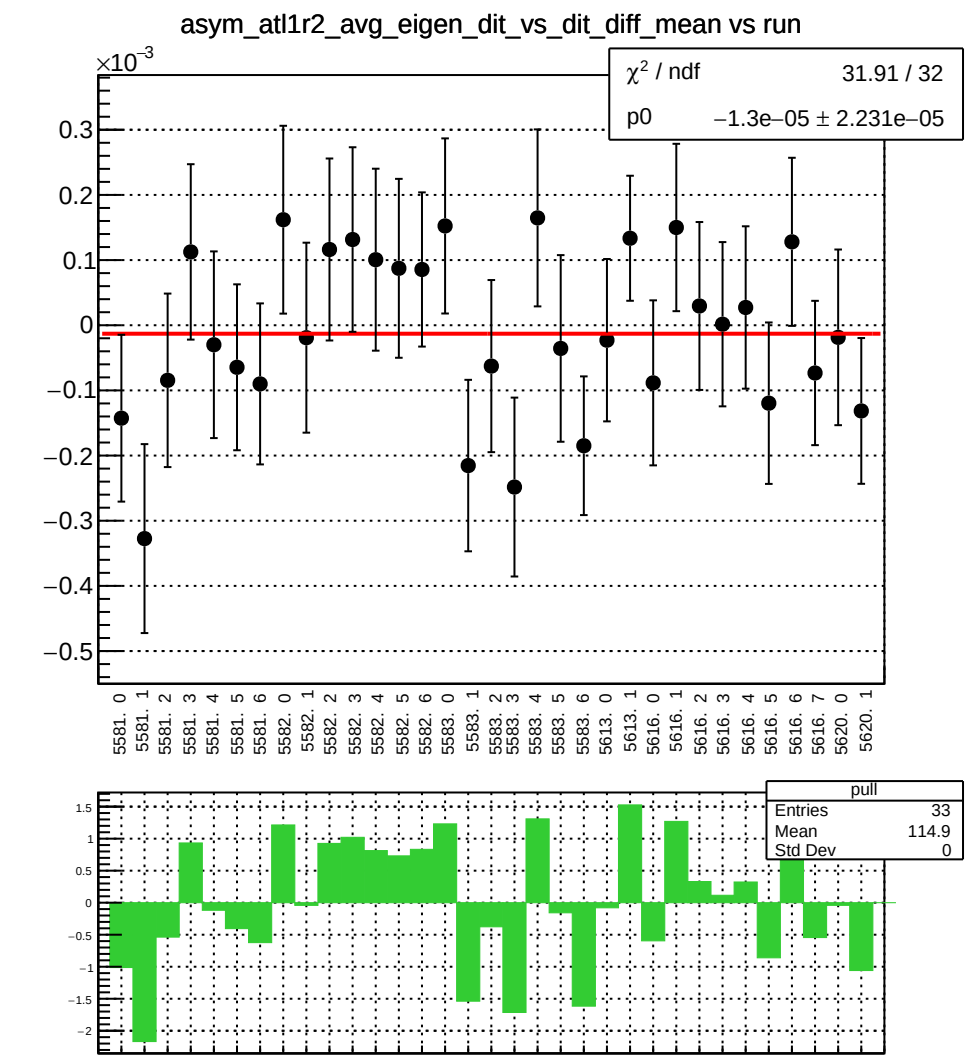

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.667e+05 / 32
p0 8.584e−11 ± 1.995e−13
7000
6000
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

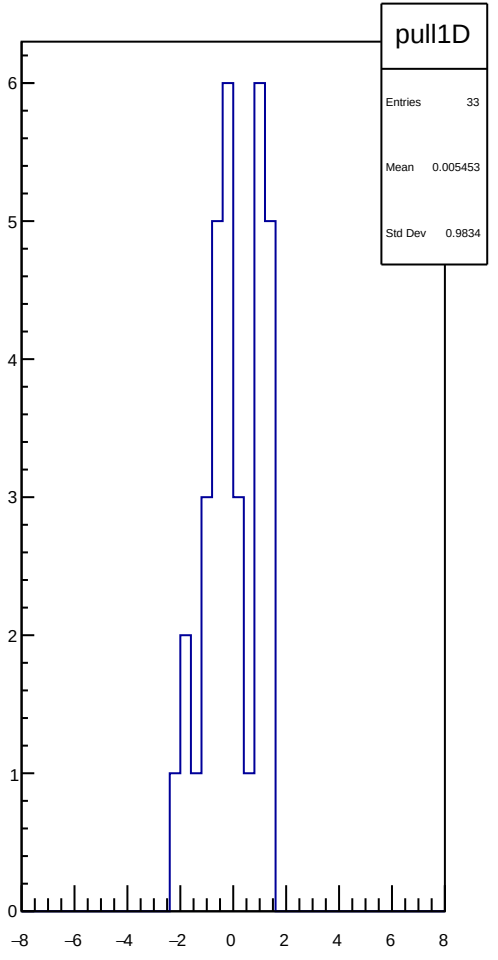

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 30.77 / 32
p0 0.07857 ± 0.2369
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.08685
Std Dev 0.9618
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

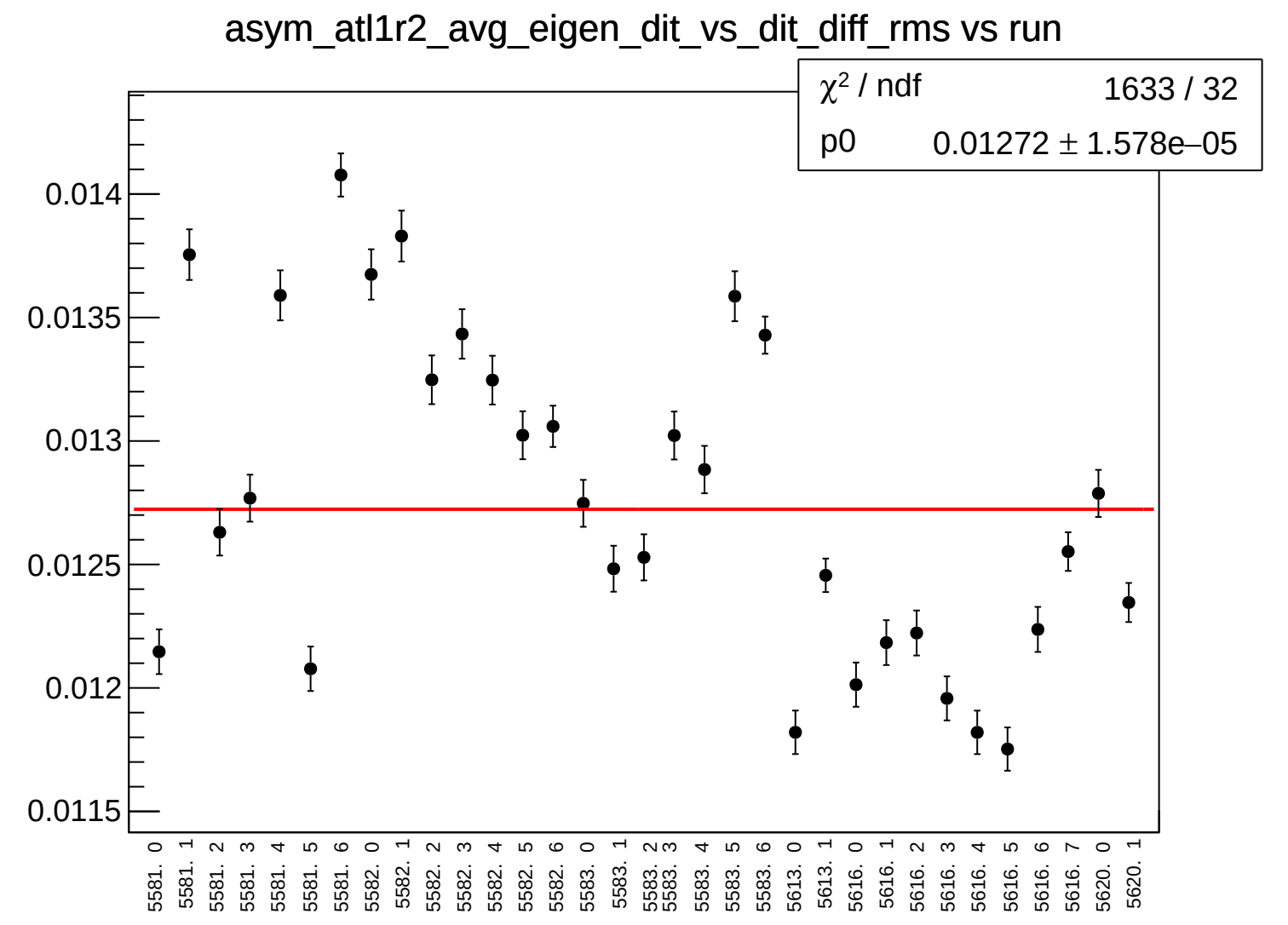

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.158e+05 / 32
p0 110.6 ± 0.1675
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

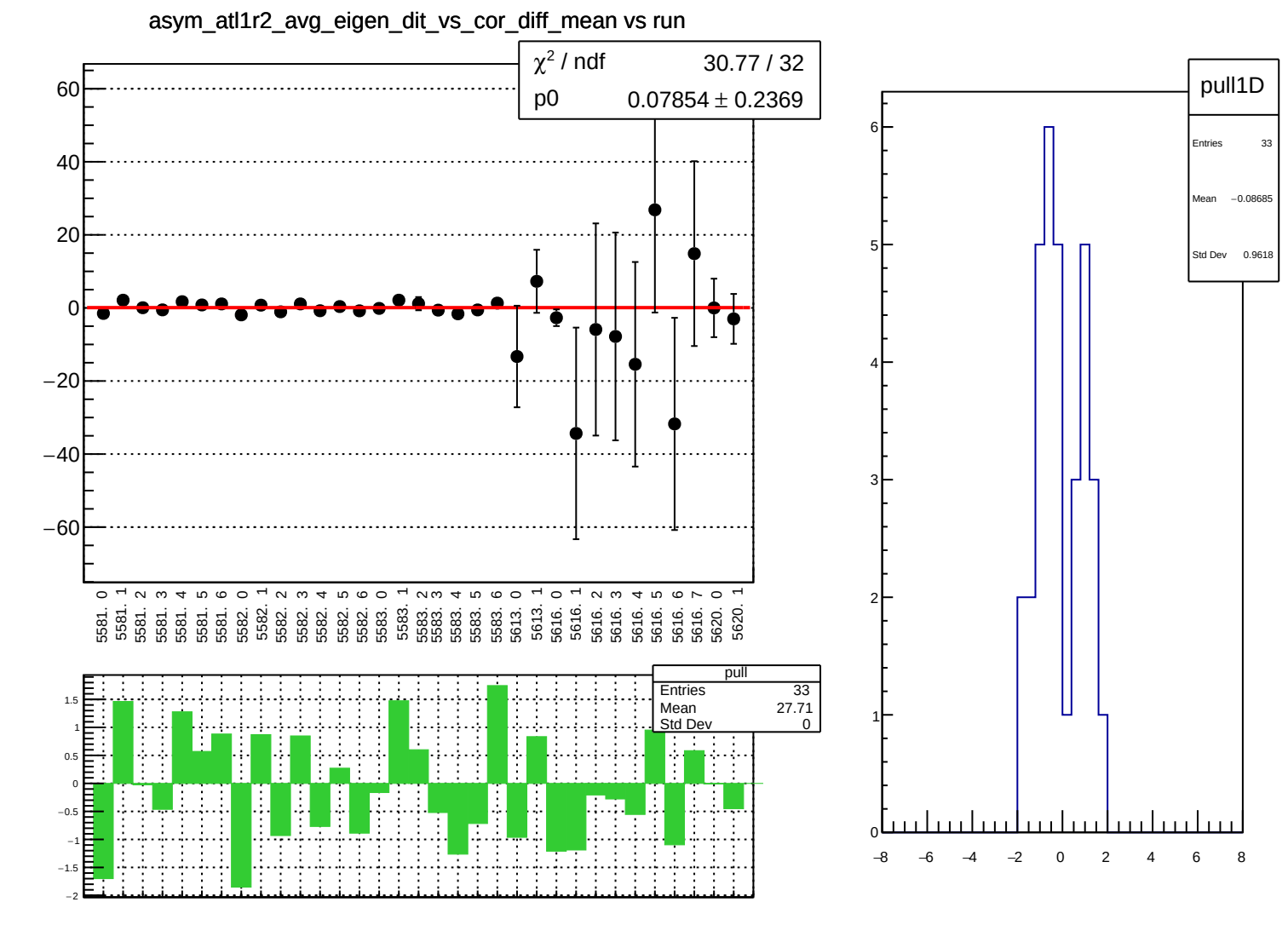

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.77 / 32
p0 0.07857 ± 0.2369
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.08685
Std Dev 0.9618
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

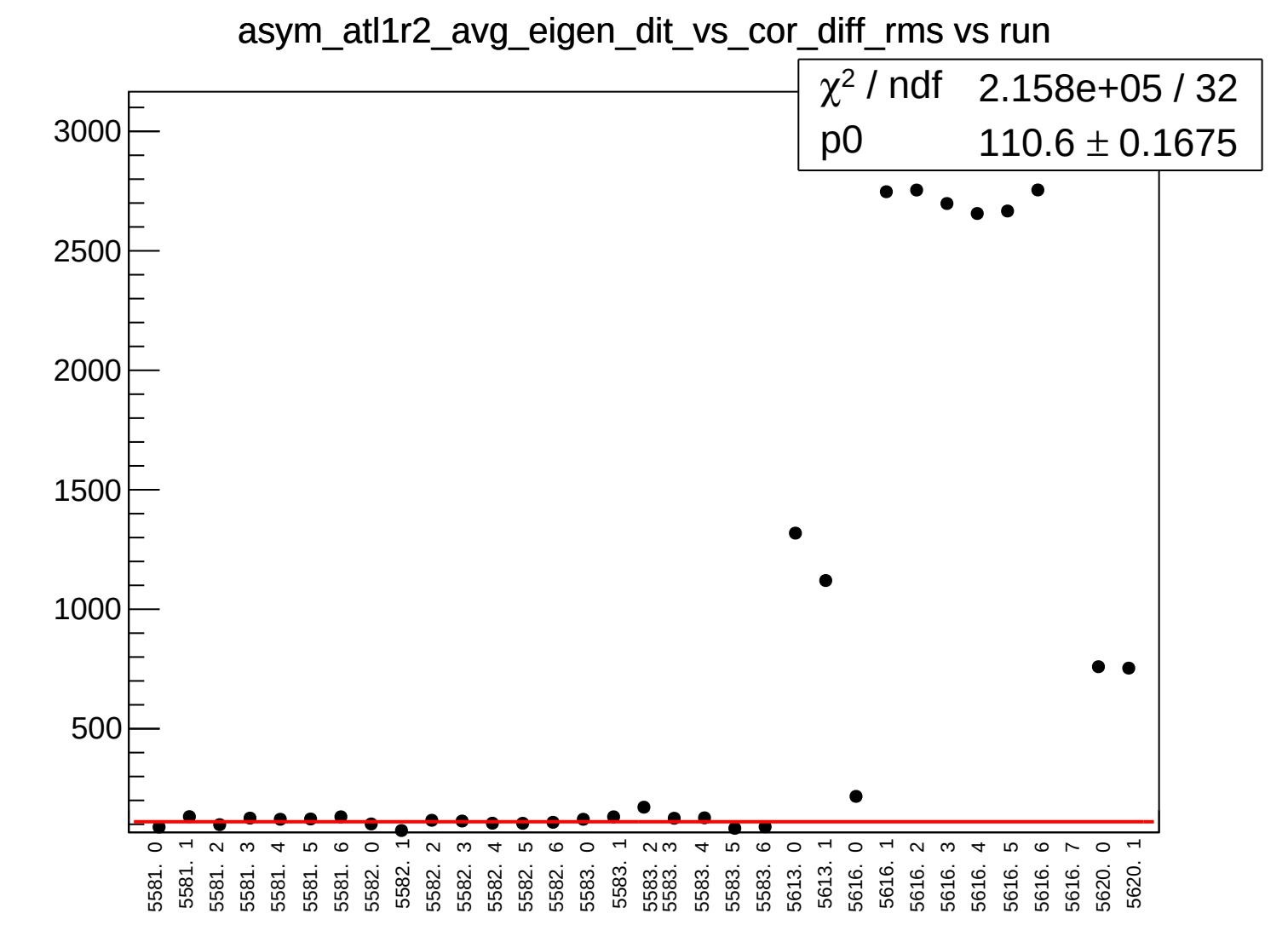

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.158e+05 / 32
p0 110.6 ± 0.1675
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

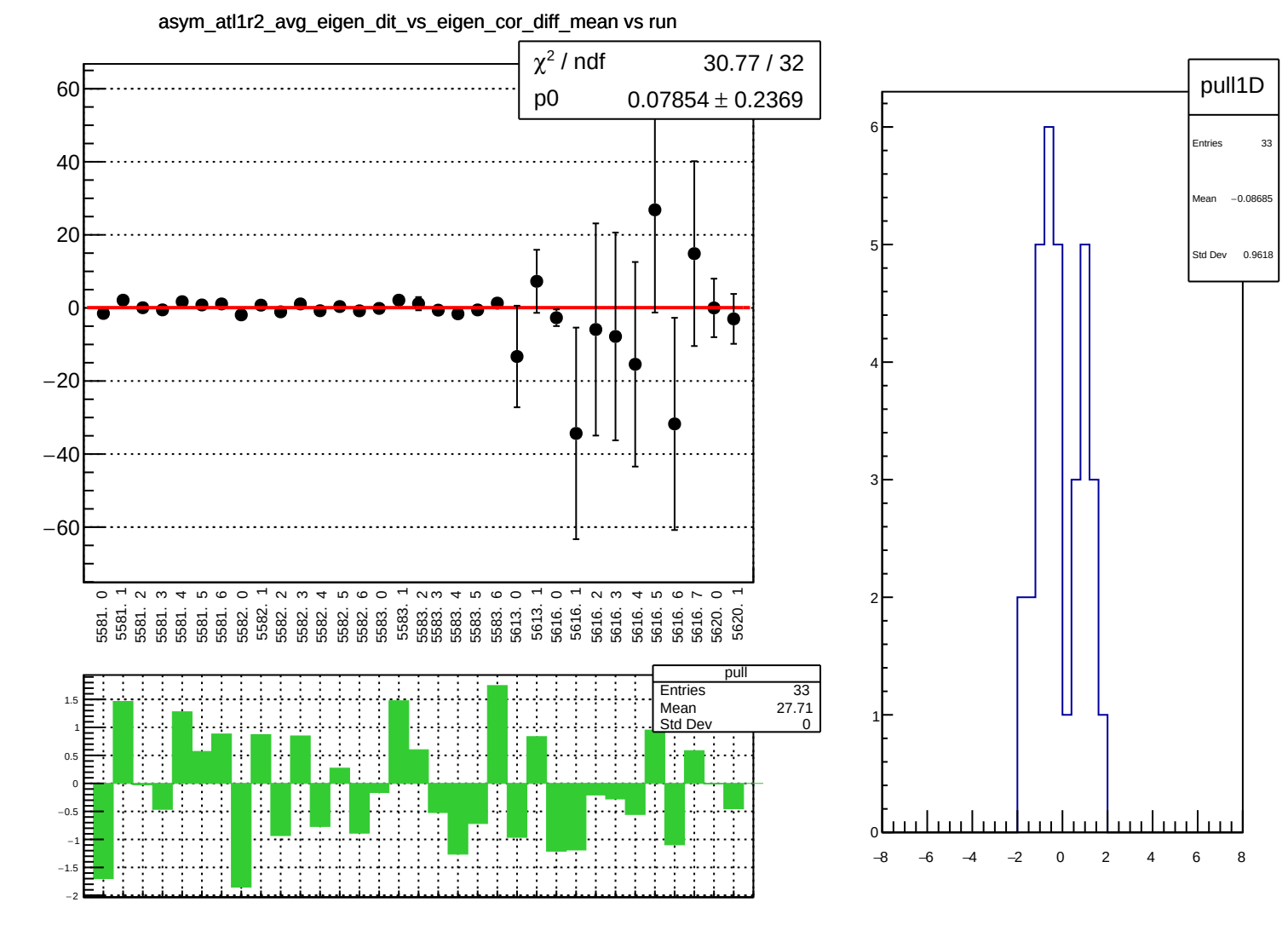

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.91 / 32
p0 −1.3e−05 ± 2.231e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 114.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

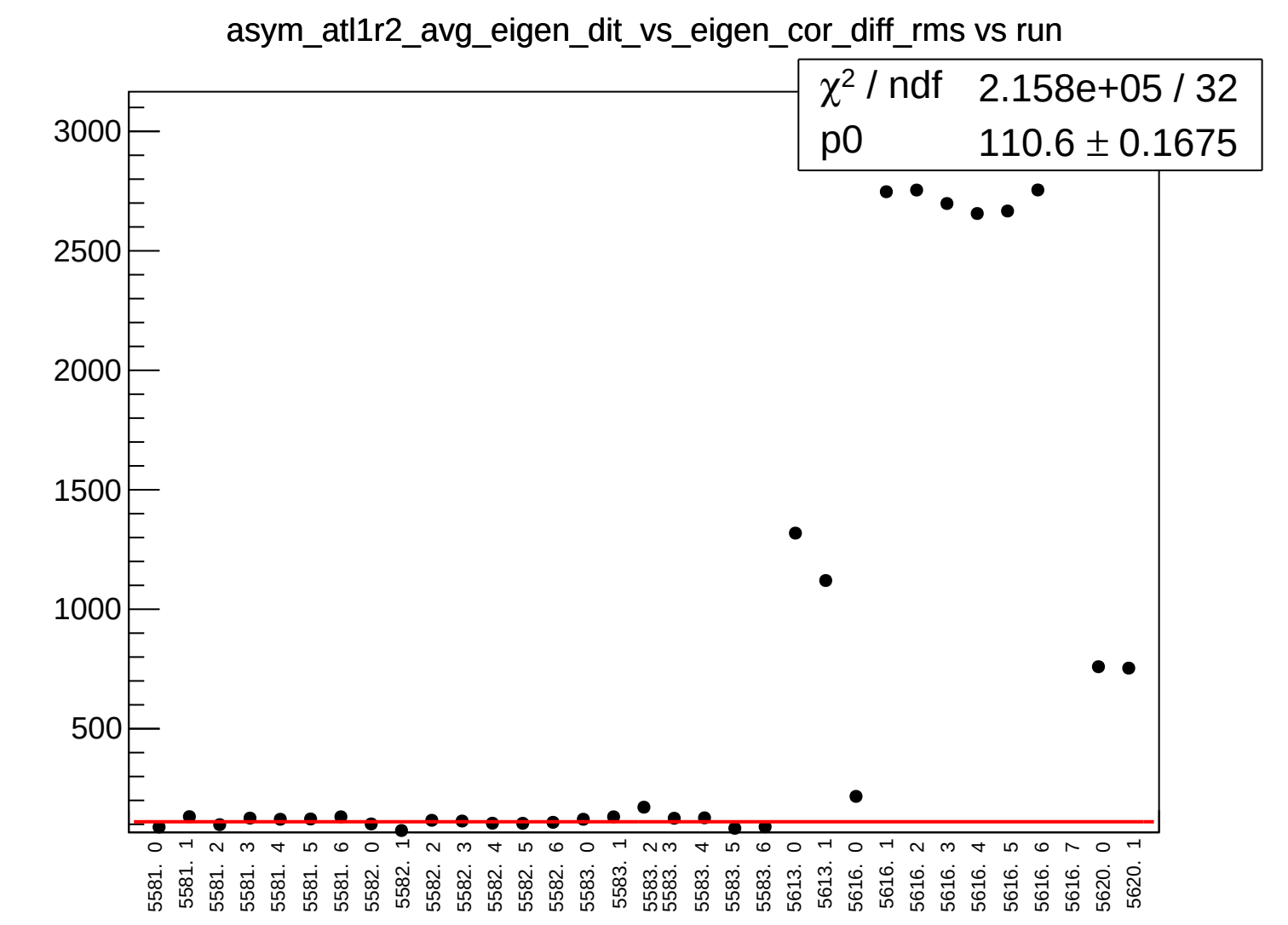

pull1D
Entries 33
Mean 0.005453
Std Dev 0.9834
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

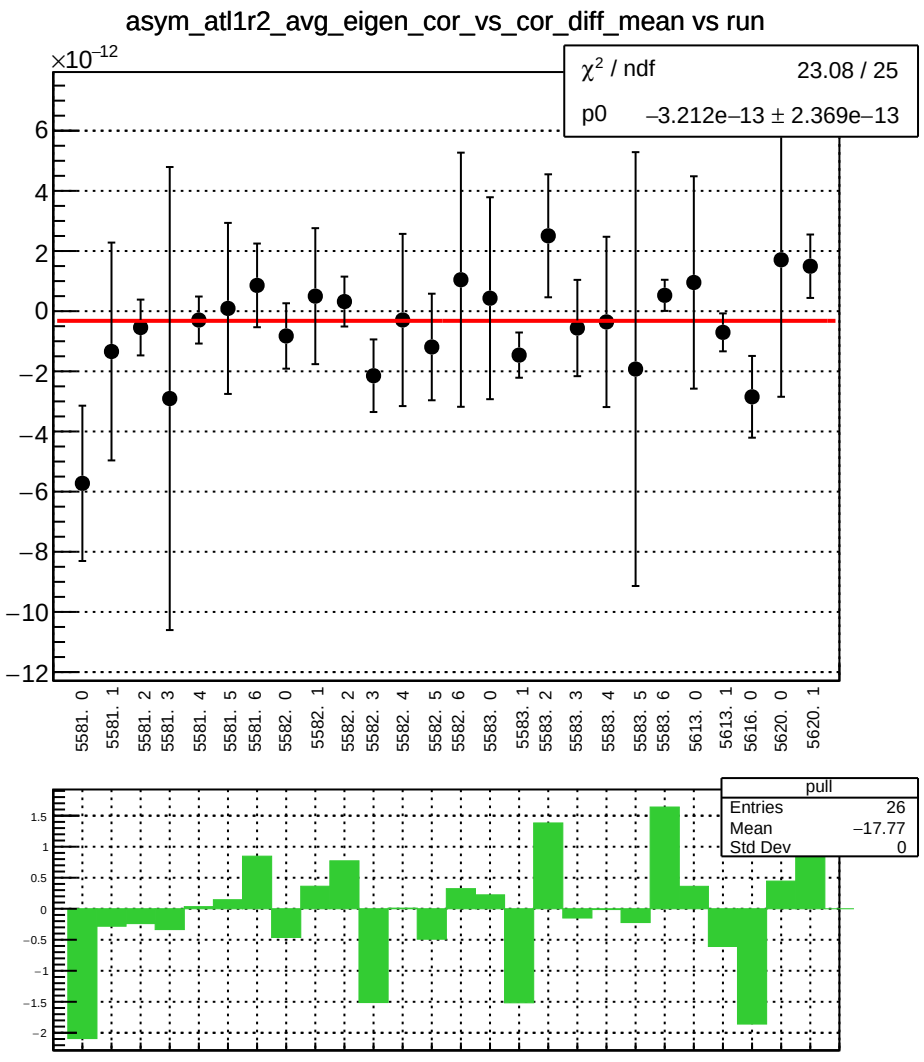

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1633 / 32
p0 0.01272 ± 1.578e−05
0.014
0.0135
0.013
0.0125
0.012
0.0115
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

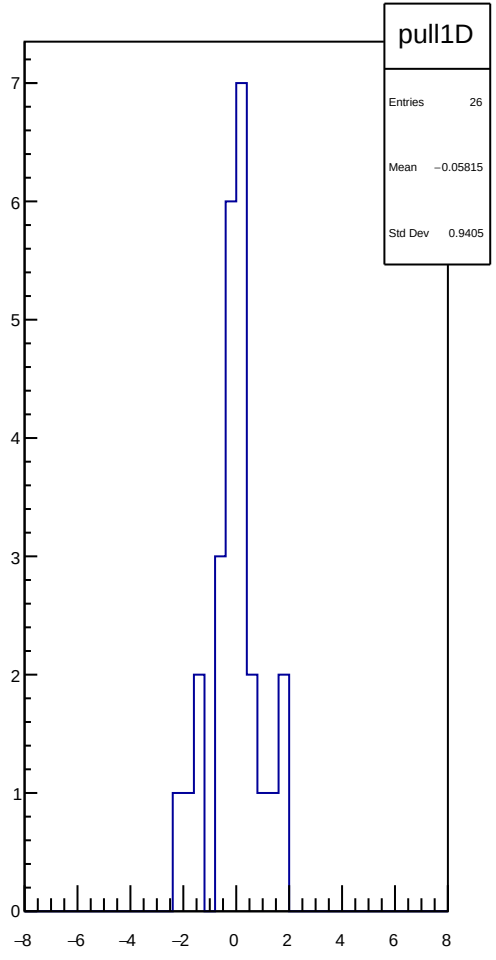

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.77 / 32
p0 0.07854 ± 0.2369
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.08685
Std Dev 0.9618
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

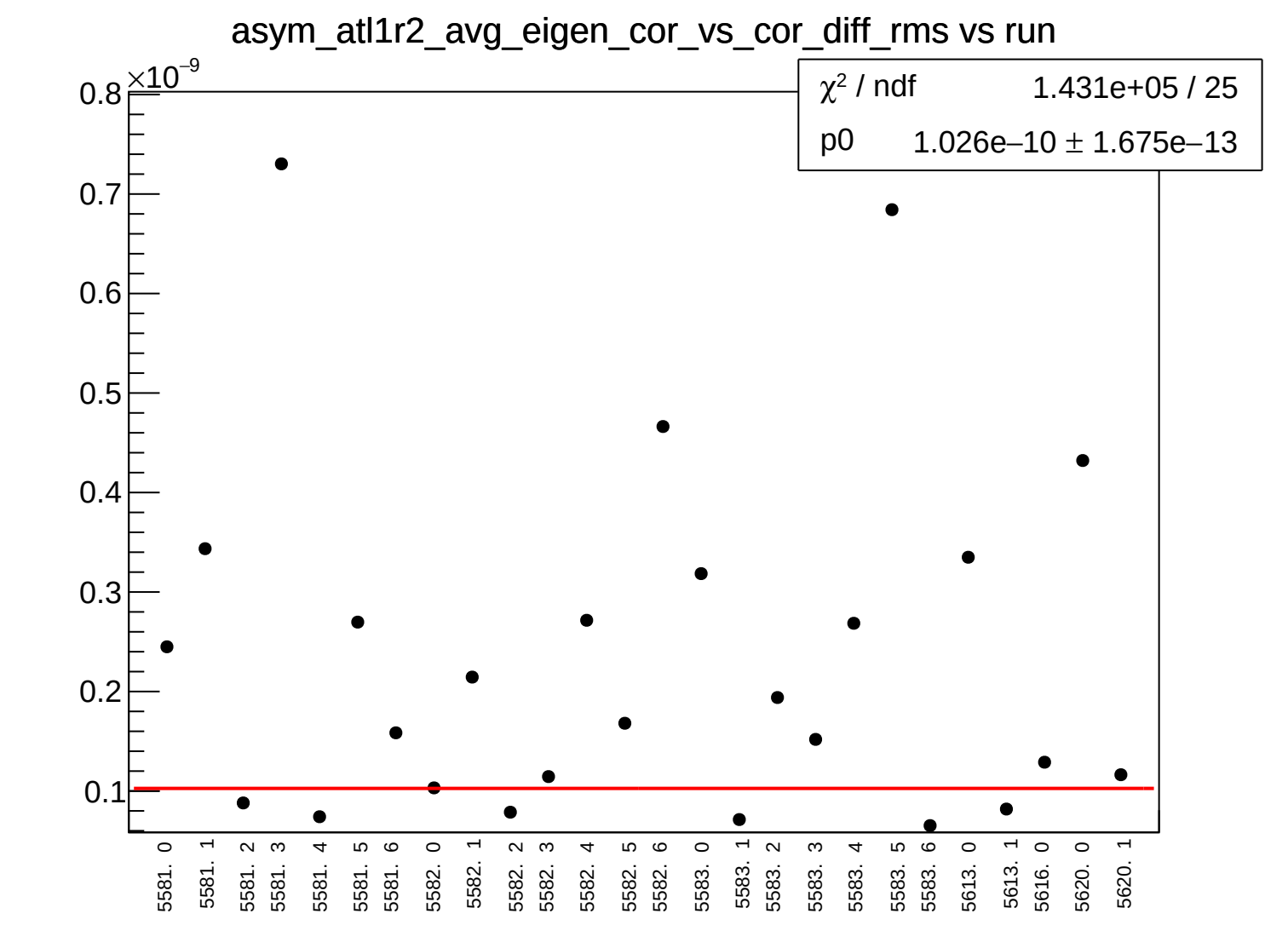

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.158e+05 / 32
p0 110.6 ± 0.1675
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

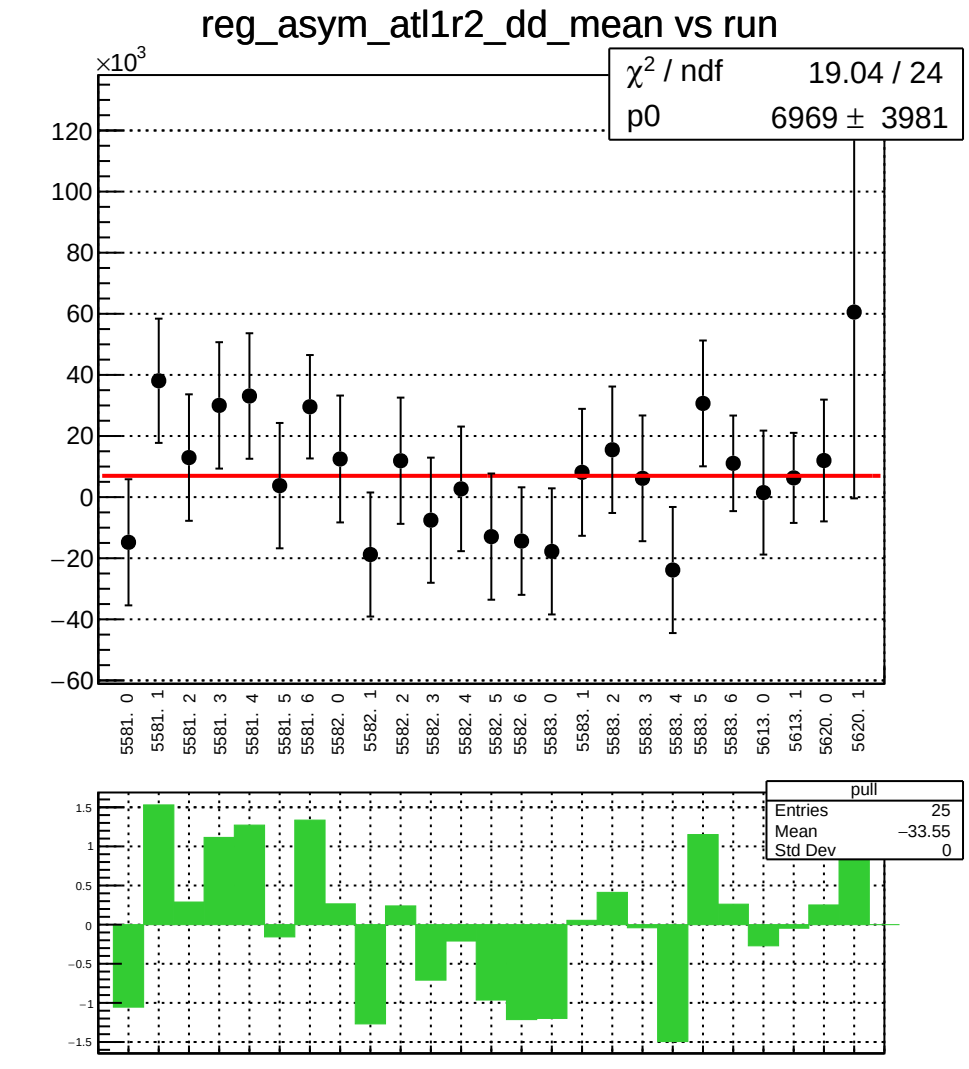

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.77 / 32
p0 0.07854 ± 0.2369
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.08685
Std Dev 0.9618
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

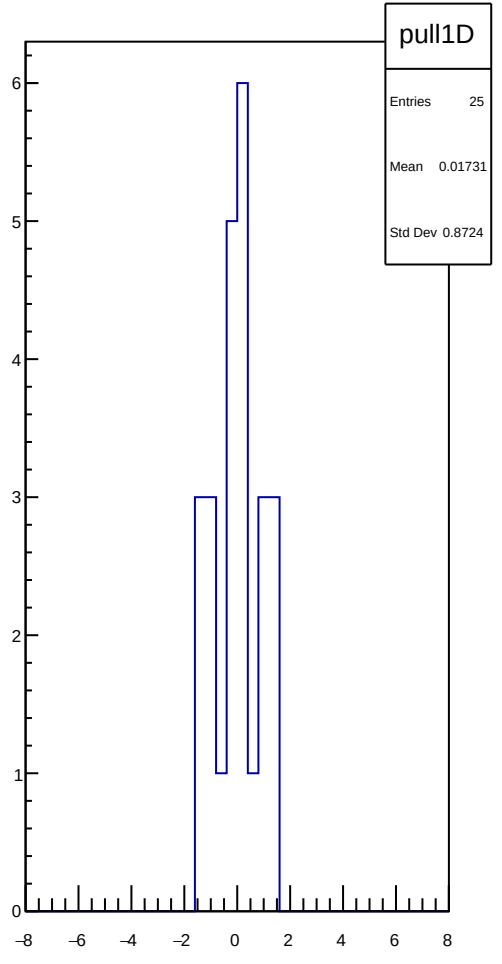

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.158e+05 / 32
p0 110.6 ± 0.1675
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

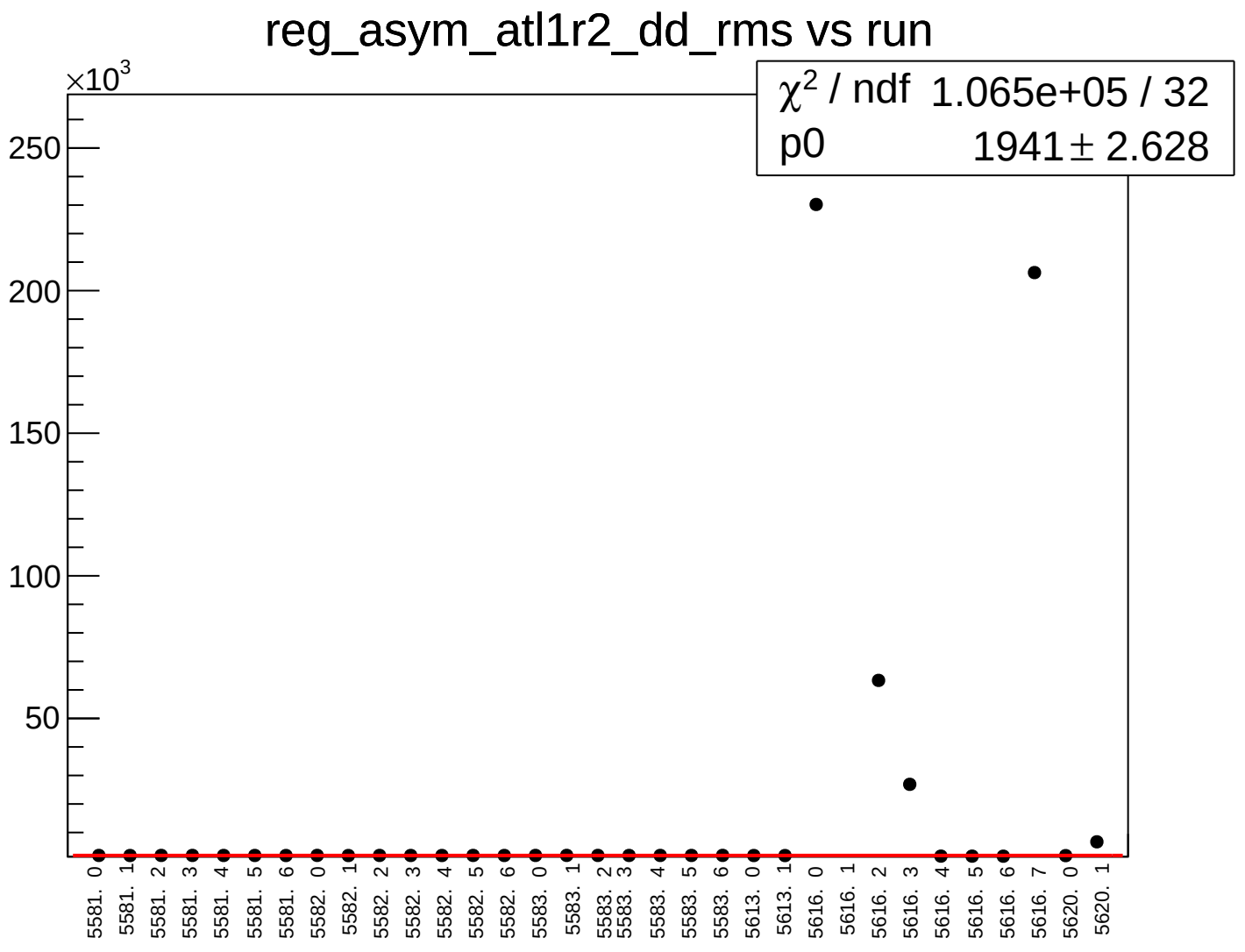

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 23.08 / 25
p0 −3.212e−13 ± 2.369e−13
6
4
2
0
−2
−4
−6
−8
−10
−12
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −17.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

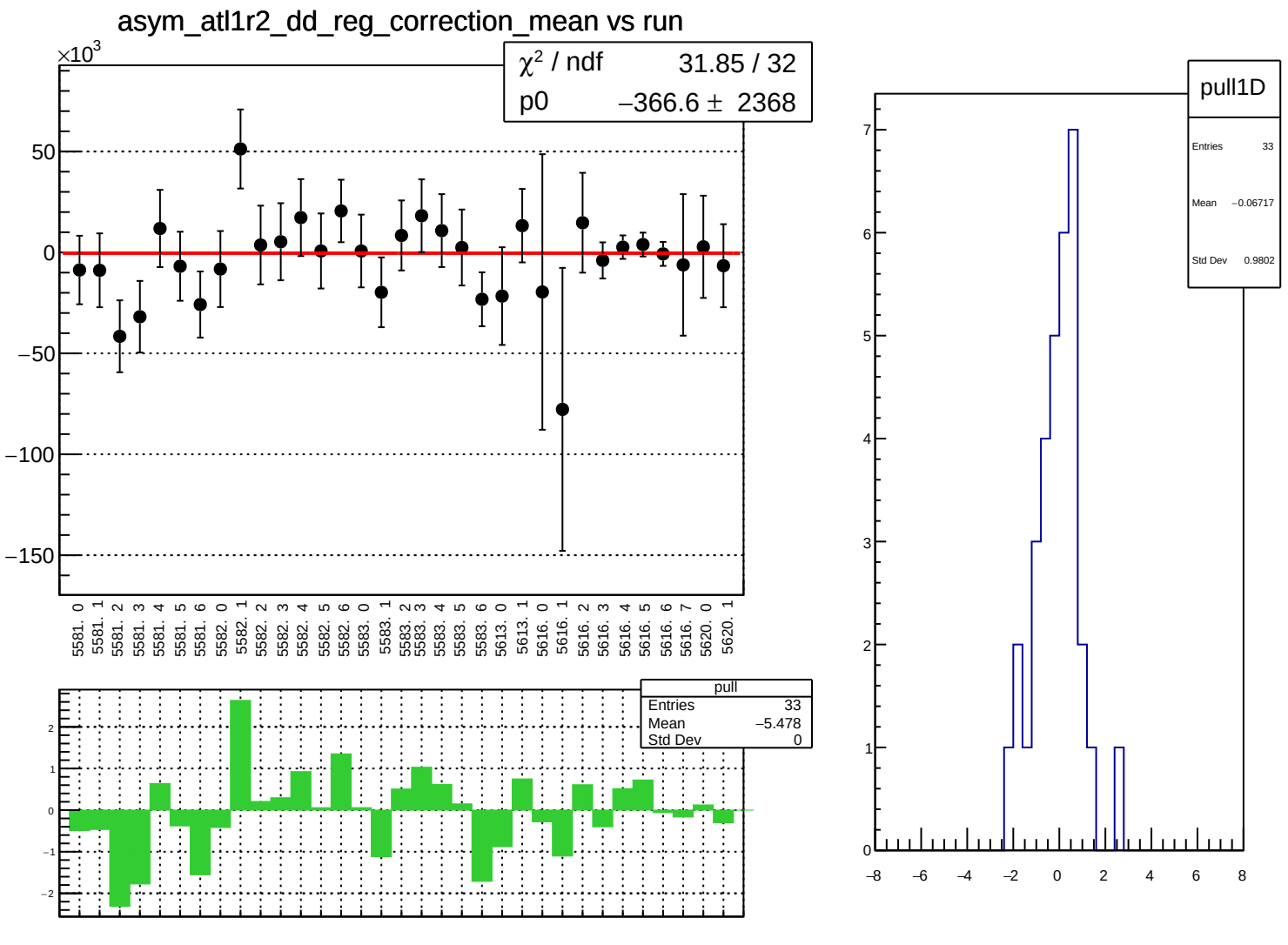

pull1D
Entries 26
Mean −0.05815
Std Dev 0.9405
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

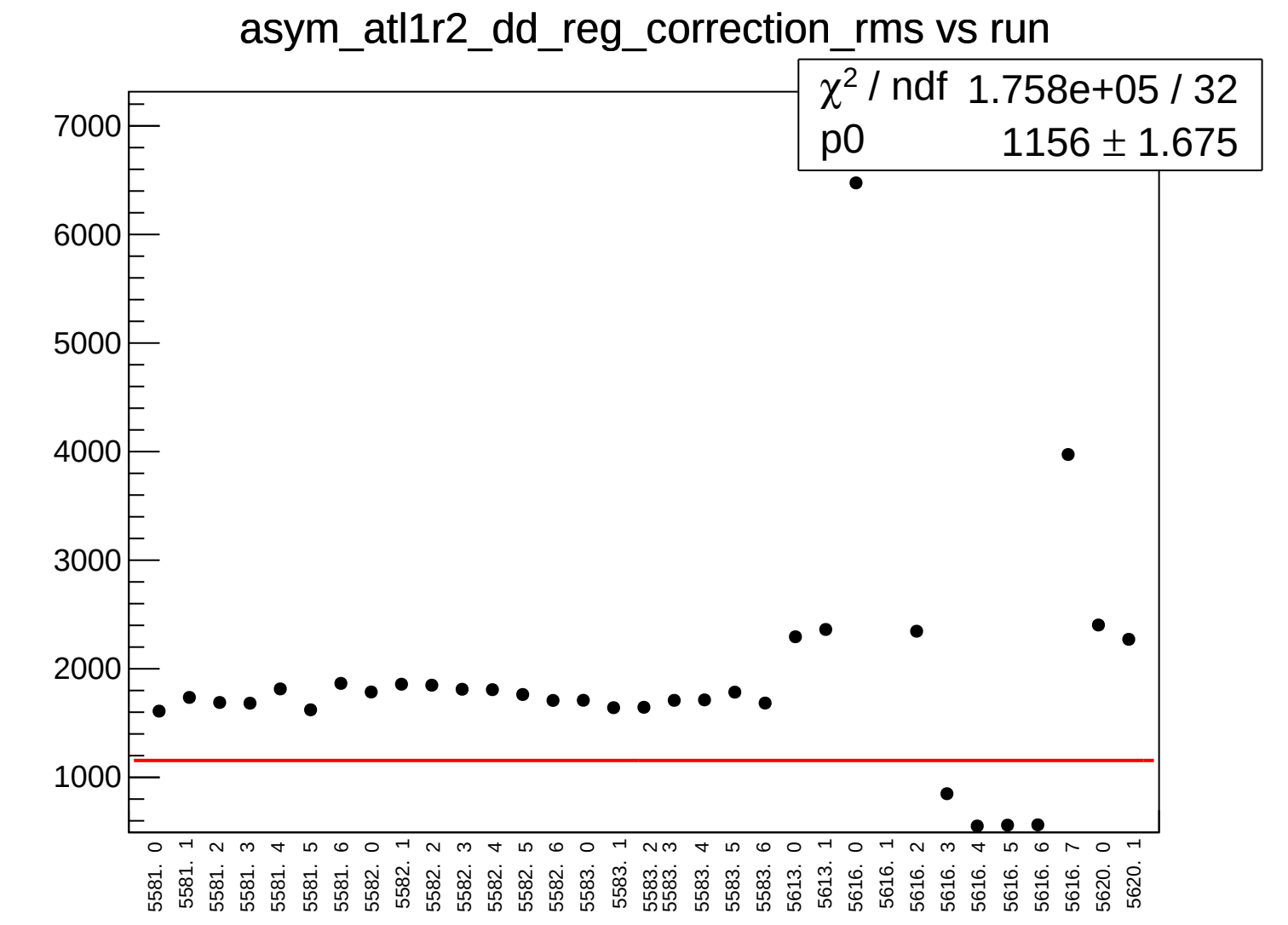

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.431e+05 / 25
p0 1.026e−10 ± 1.675e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

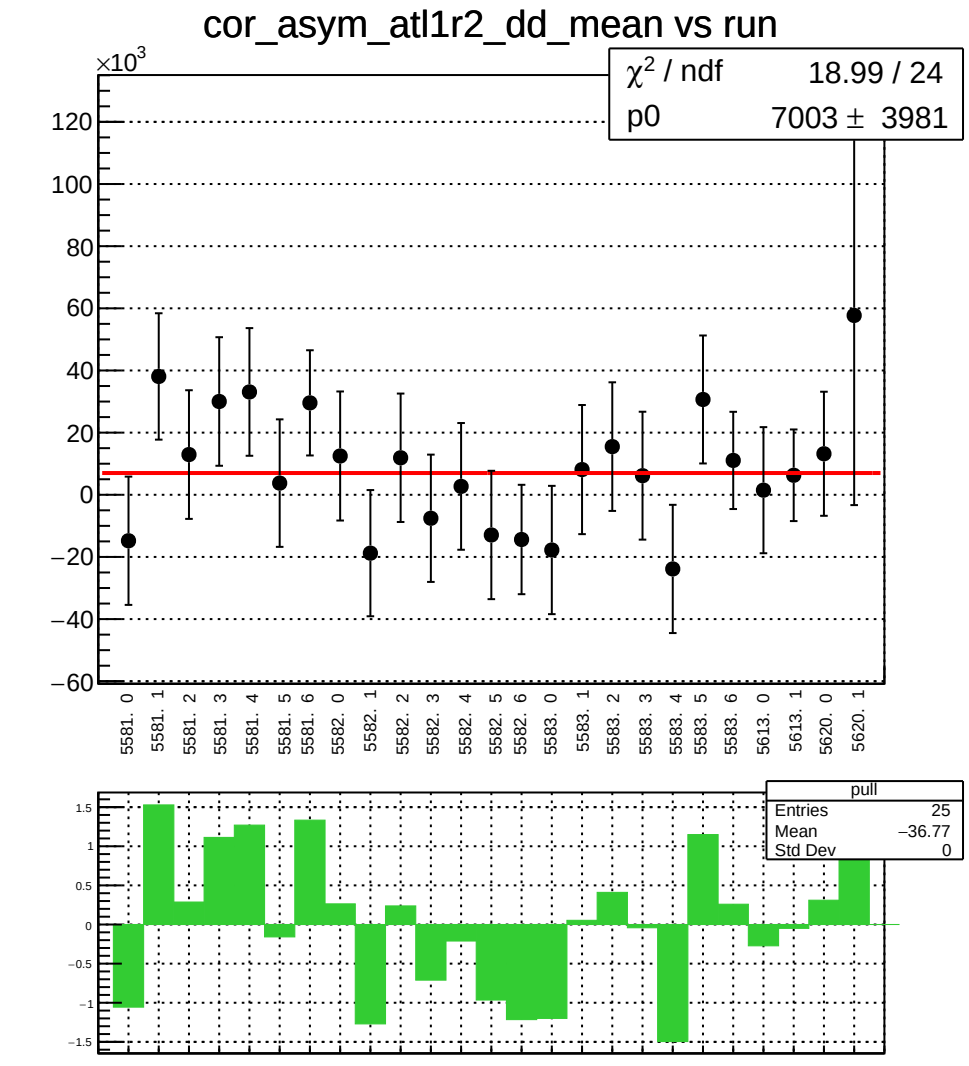

reg_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 19.04 / 24
p0 6969 ± 3981
120
100
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −33.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

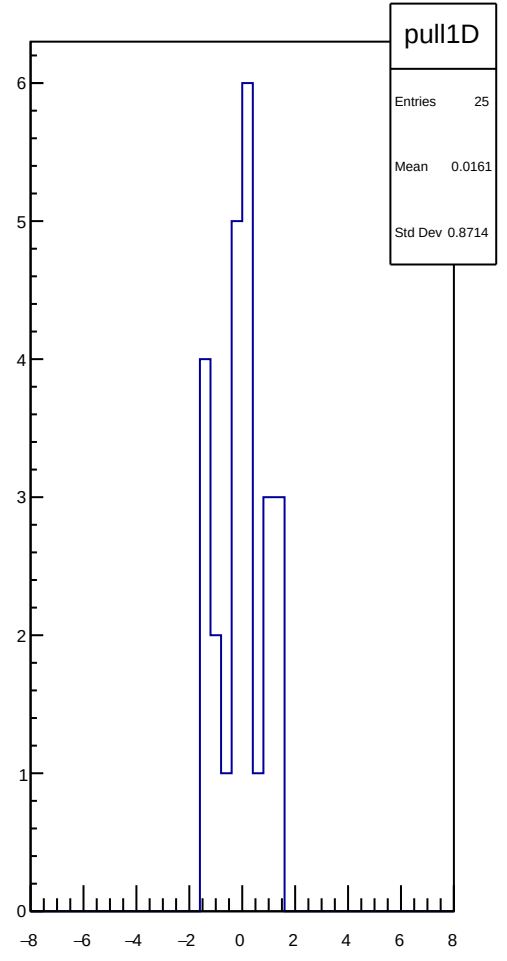

pull1D
Entries 25
Mean 0.01731
Std Dev 0.8724
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

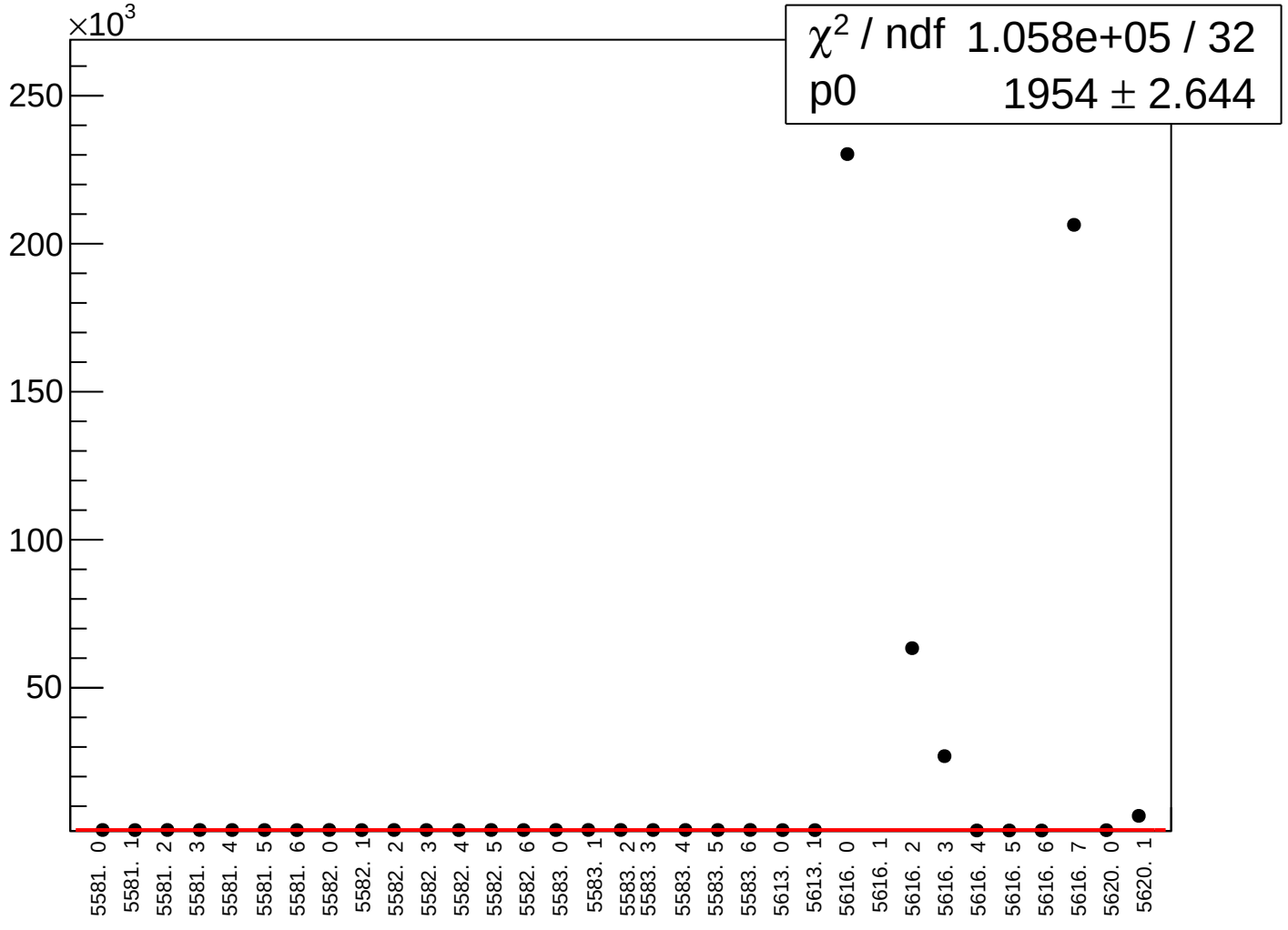

reg_asym_atl1r2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.065e+05 / 32
p0 1941 ± 2.628
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

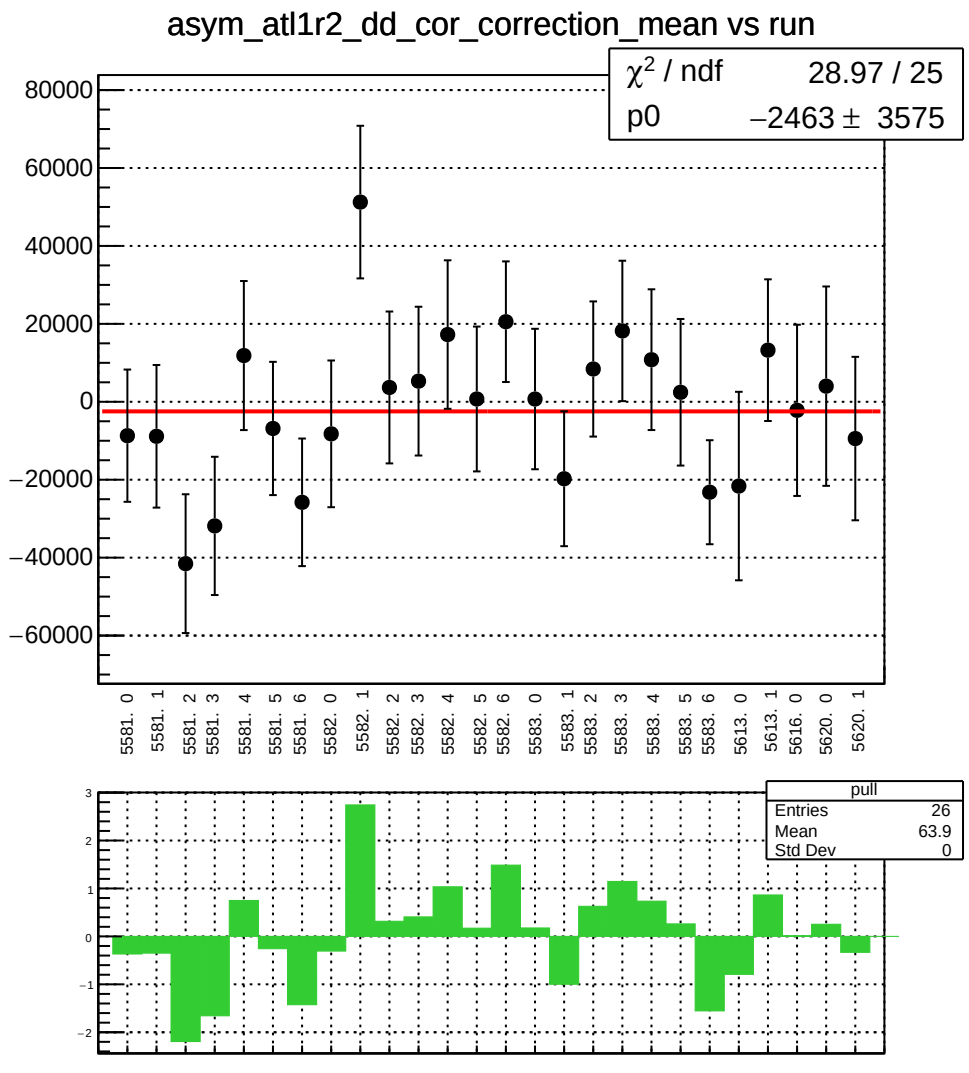

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 31.85 / 32
p0 −366.6 ± 2368
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −5.478
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.06717
Std Dev 0.9802
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

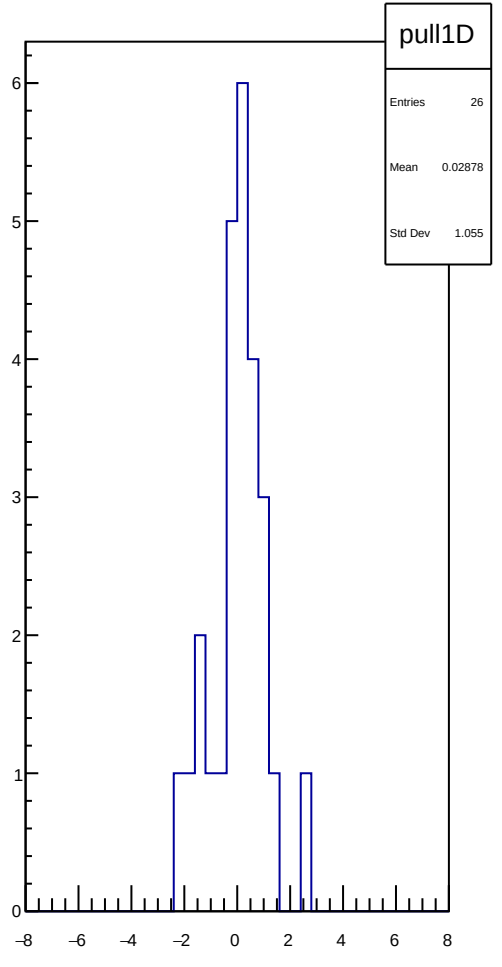

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 1.758e+05 / 32
p0 1156 ± 1.675
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

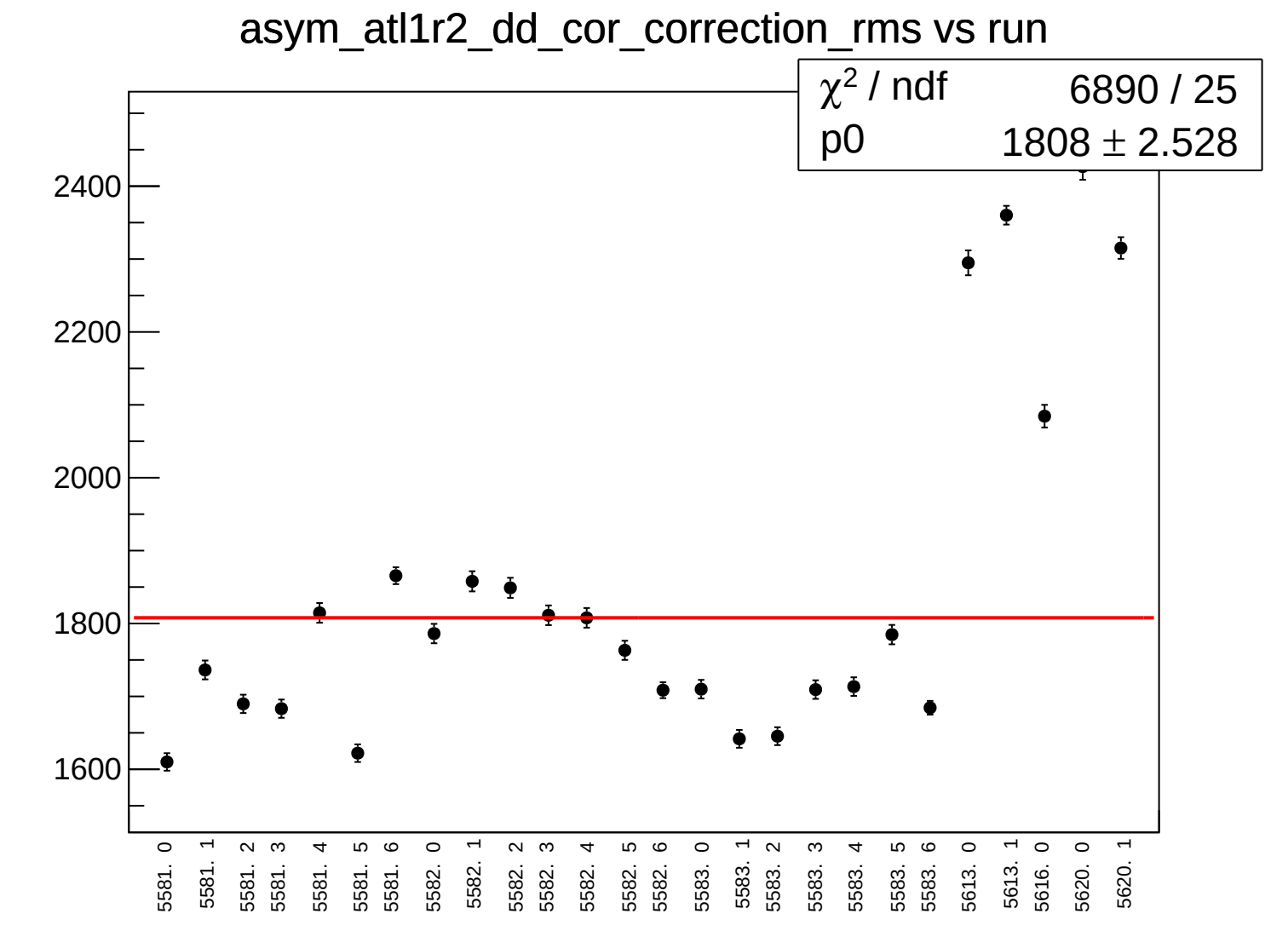

cor_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 18.99 / 24
p0 7003 ± 3981
120
100
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −36.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

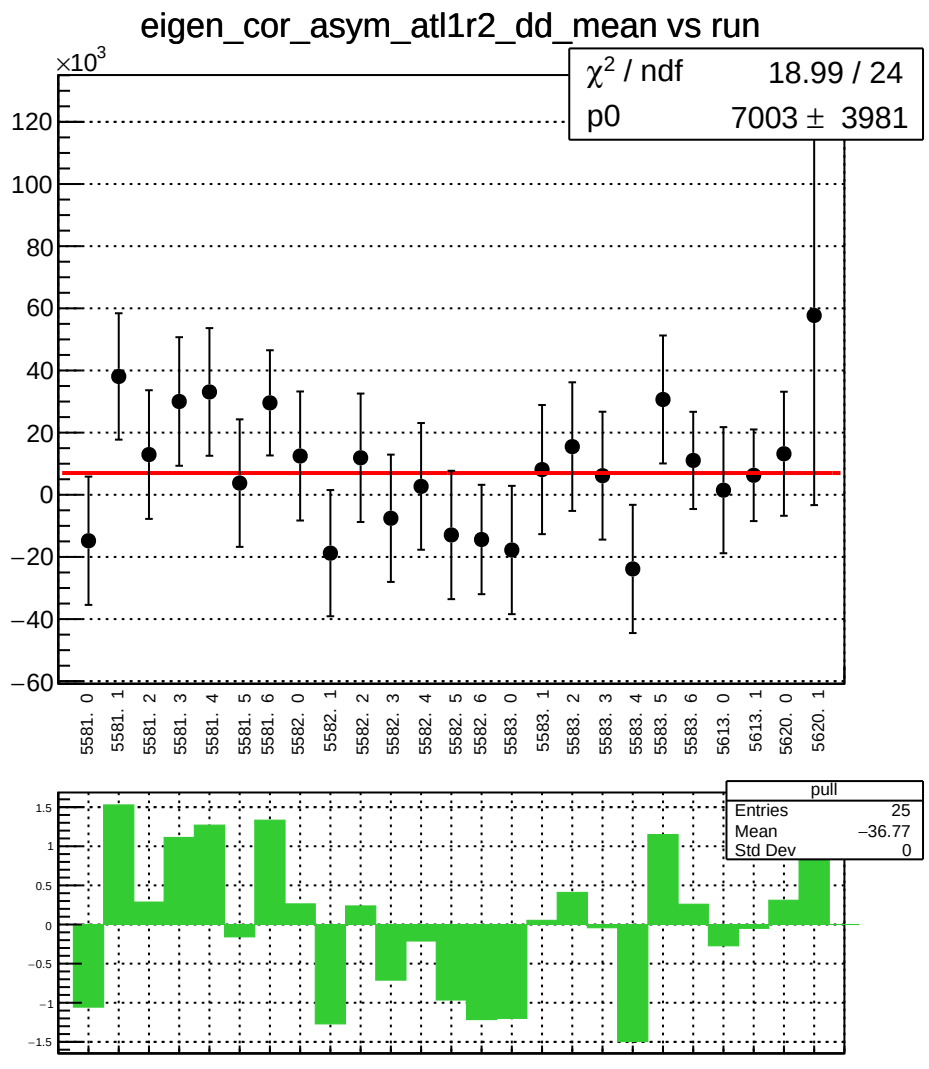

pull1D
Entries 25
Mean 0.0161
Std Dev 0.8714
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

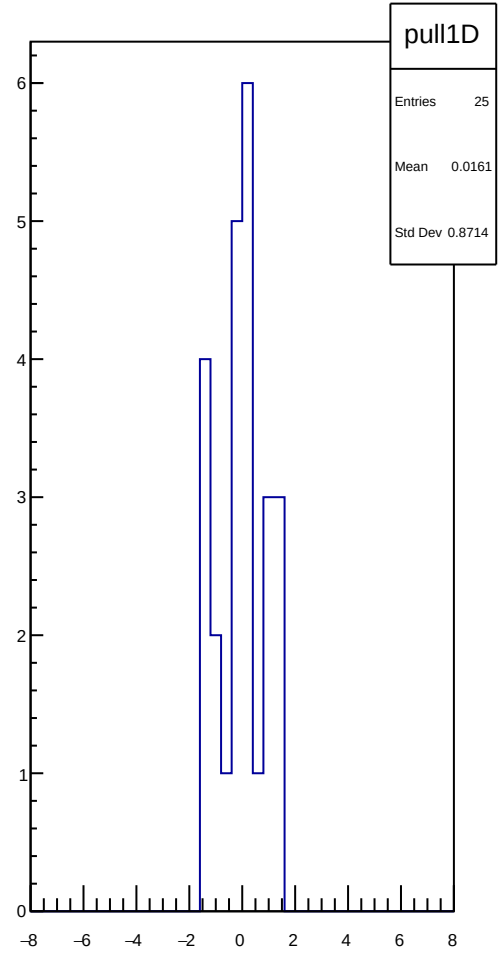

cor_asym_atl1r2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.058e+05 / 32
p0 1954 ± 2.644
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

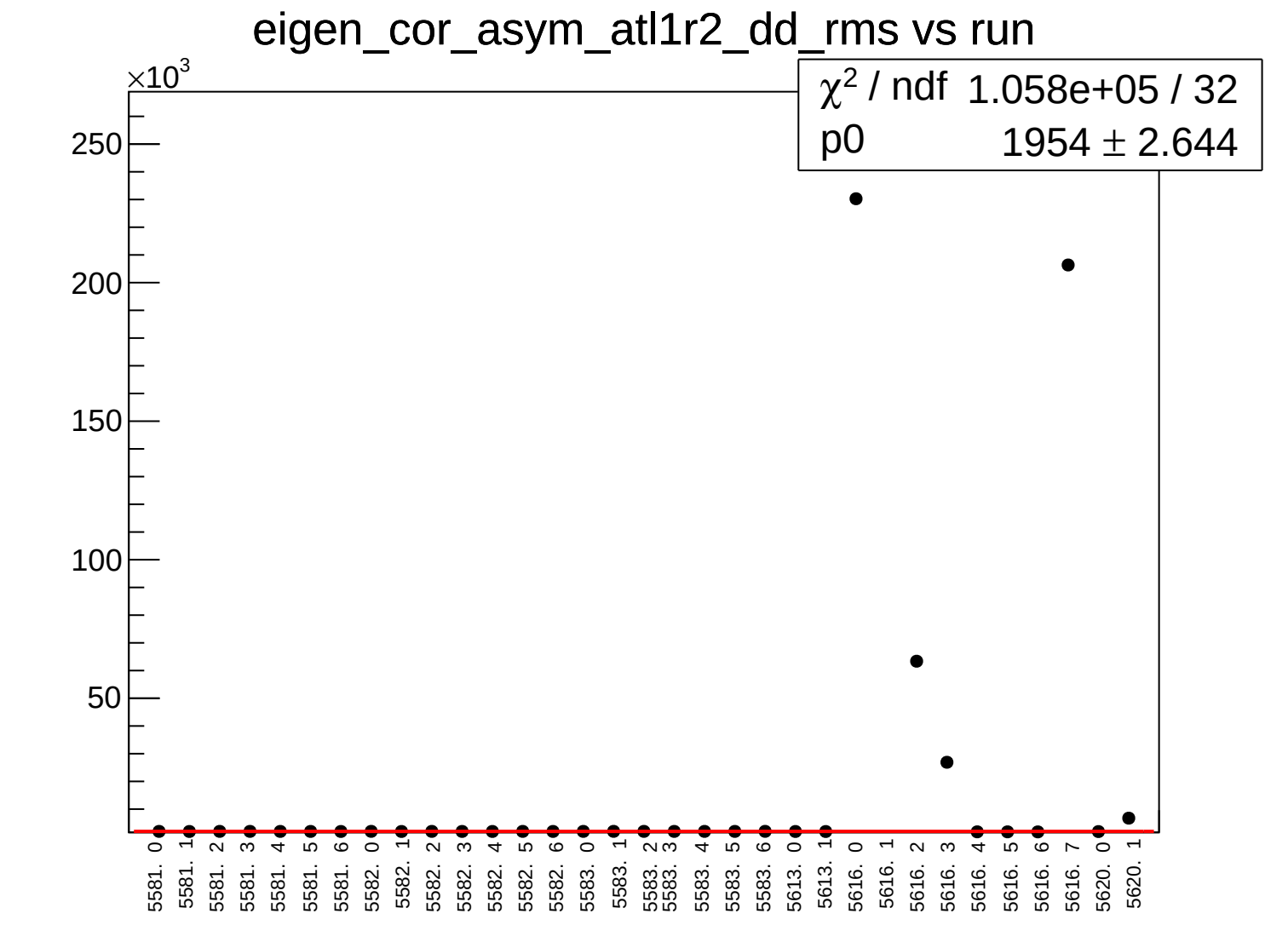

asym_atl1r2_dd_cor_correction_mean vs run
χ² / ndf 28.97 / 25
p0 −2463 ± 3575
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 63.9
Std Dev 0
3
2
1
0
−1
−2

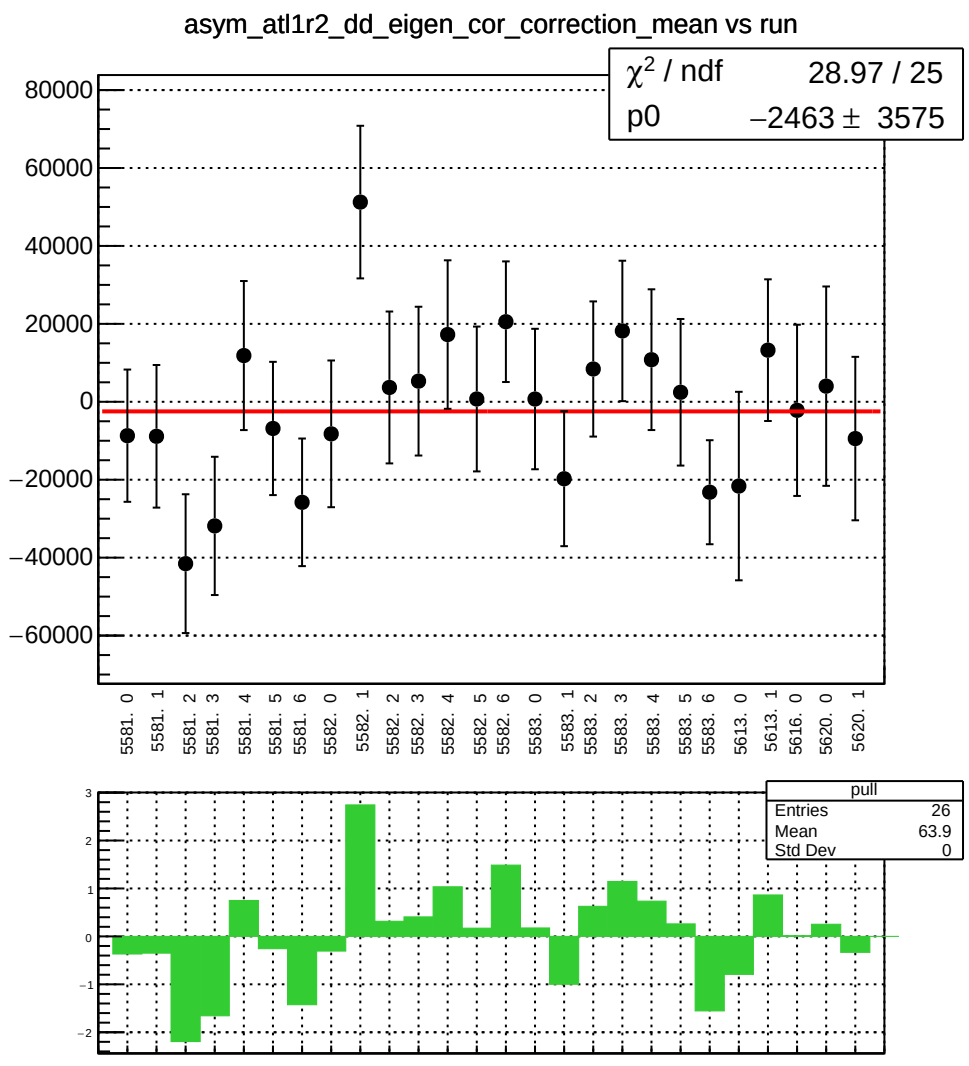

pull1D
Entries 26
Mean 0.02878
Std Dev 1.055
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

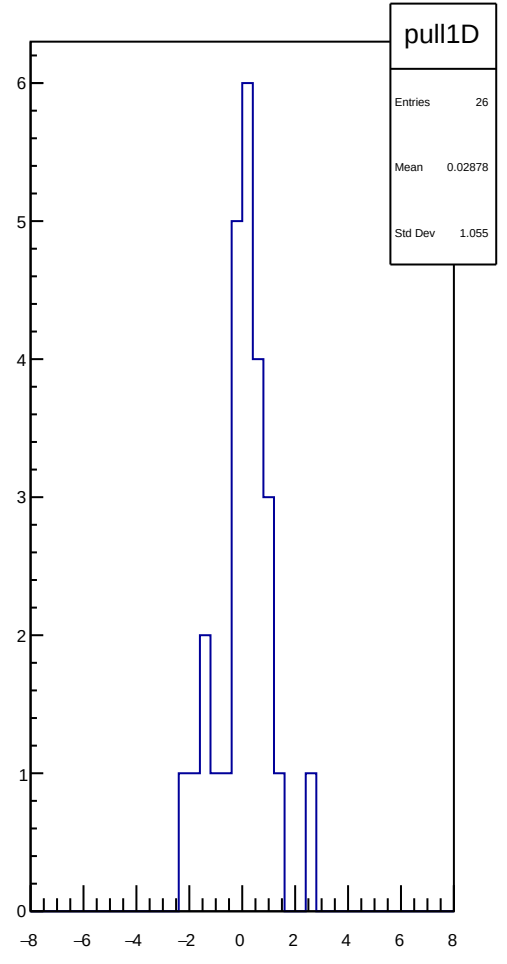

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 6890 / 25
p0 1808 ± 2.528
2400
2200
2000
1800
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

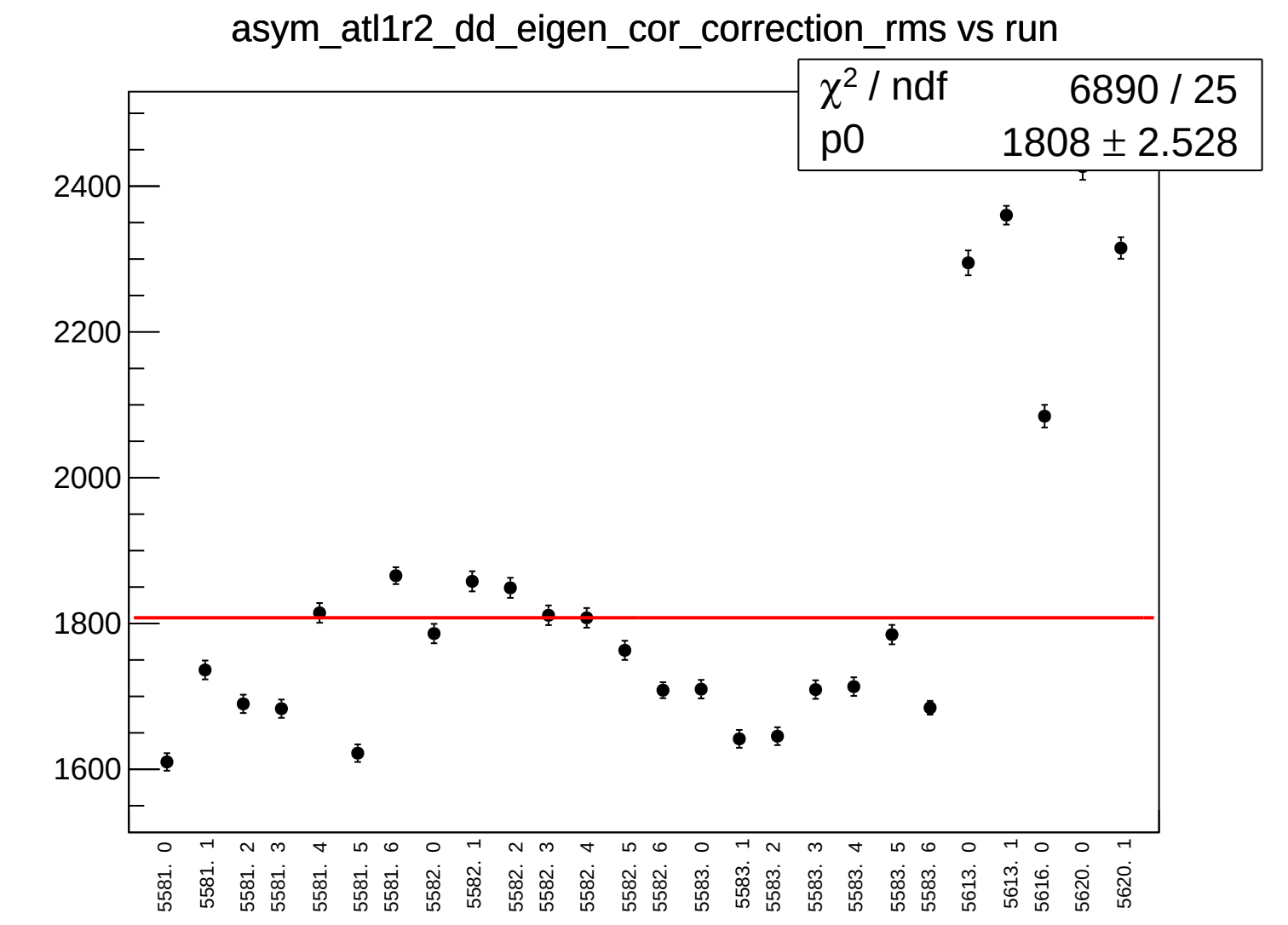

eigen_cor_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 18.99 / 24
p0 7003 ± 3981
120
100
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −36.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

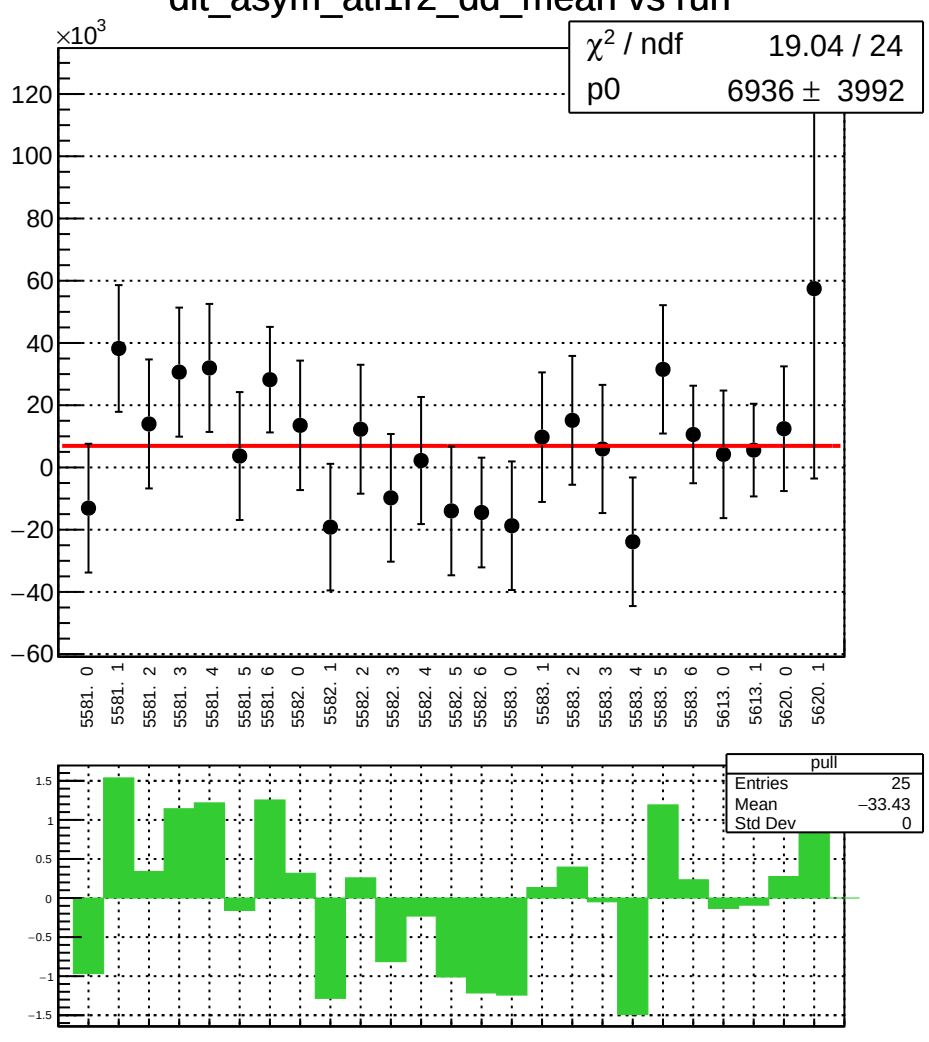

pull1D
Entries 25
Mean 0.0161
Std Dev 0.8714
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

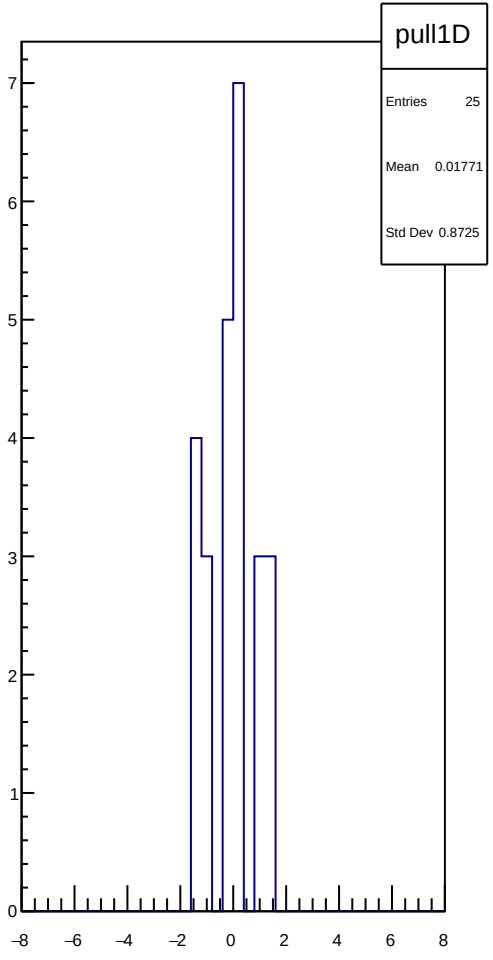

eigen_cor_asym_atl1r2_dd_rms vs run
×10^3
χ^2 / ndf 1.058e+05 / 32
p0 1954 ± 2.644
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

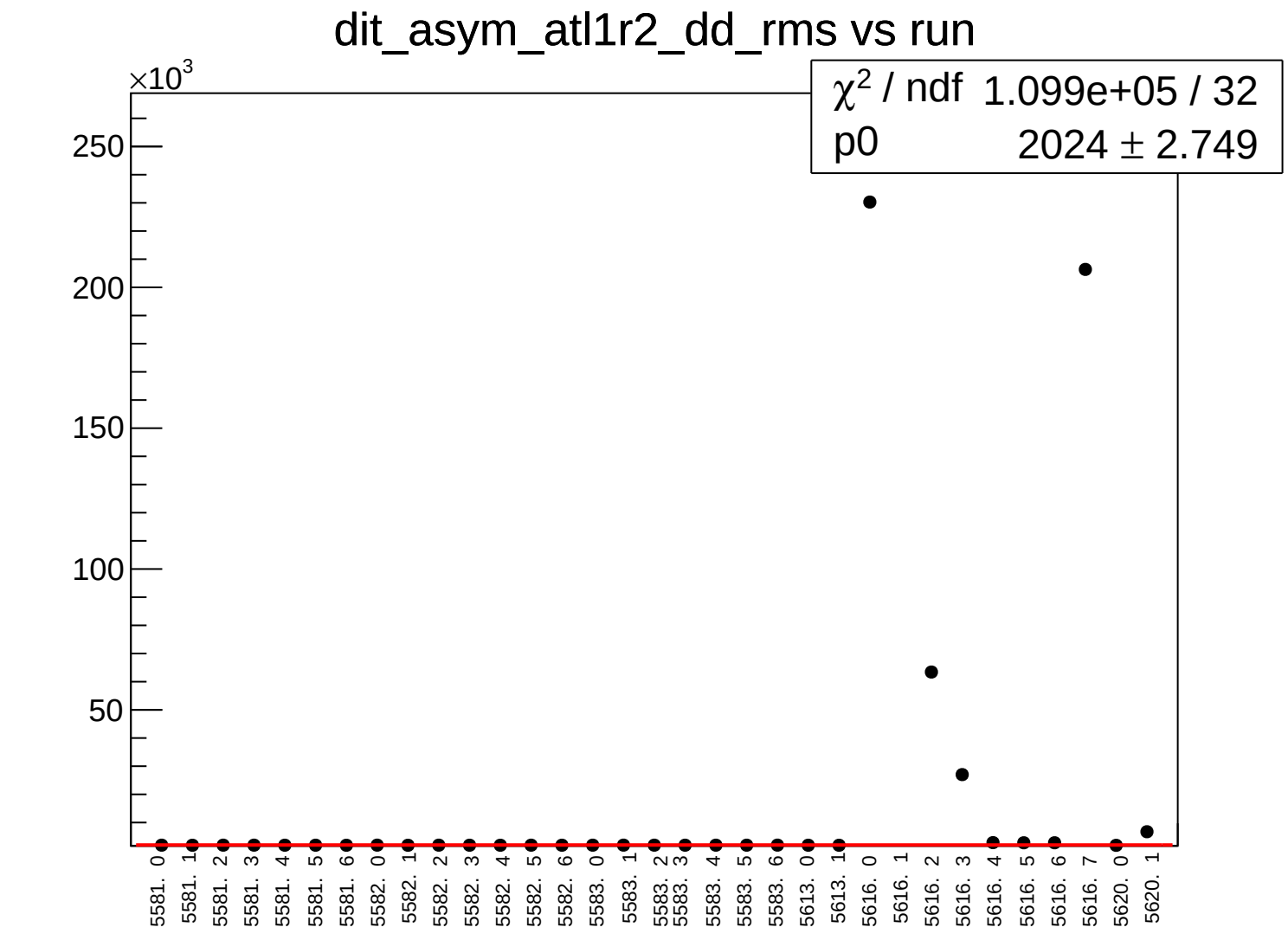

asym_atl1r2_dd_eigen_cor_correction_mean vs run
χ² / ndf 28.97 / 25
p0 −2463 ± 3575
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 63.9
Std Dev 0
3
2
1
0
−1
−2

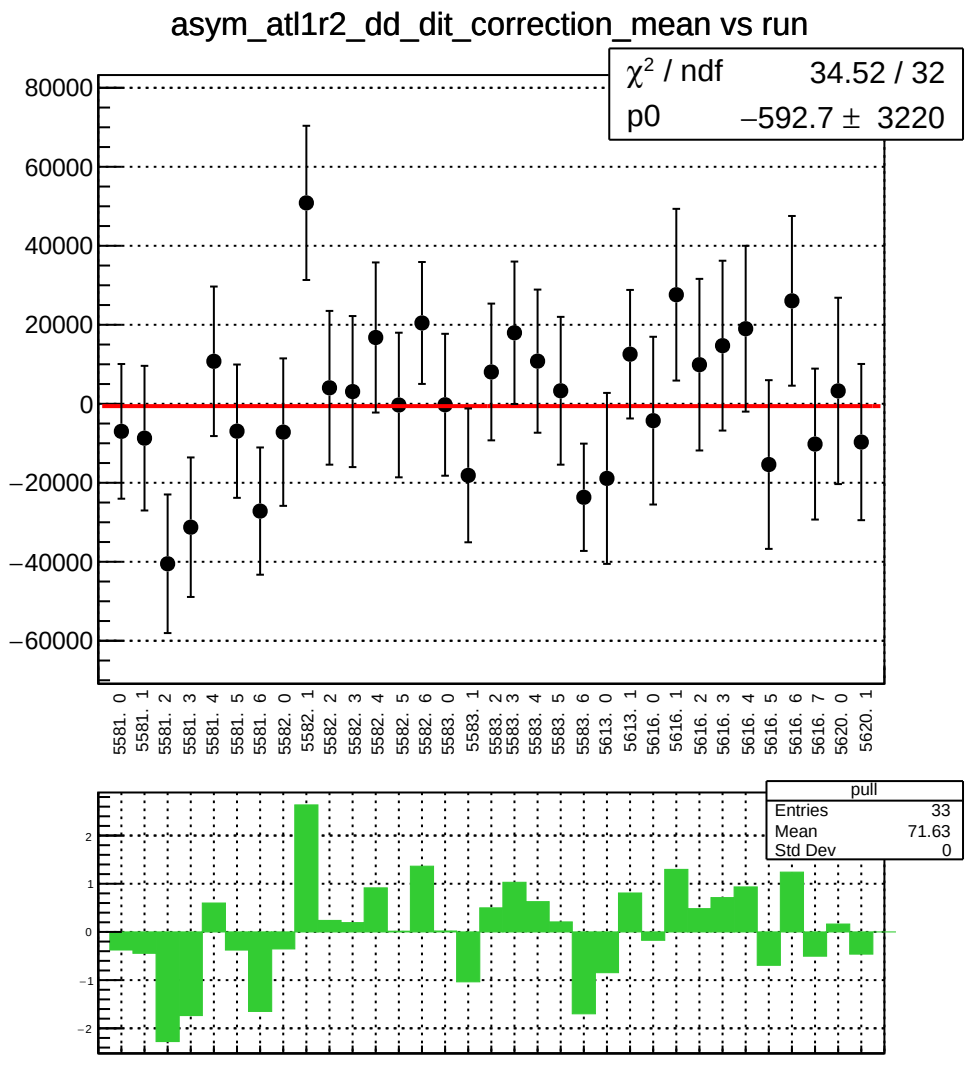

pull1D
Entries 26
Mean 0.02878
Std Dev 1.055
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

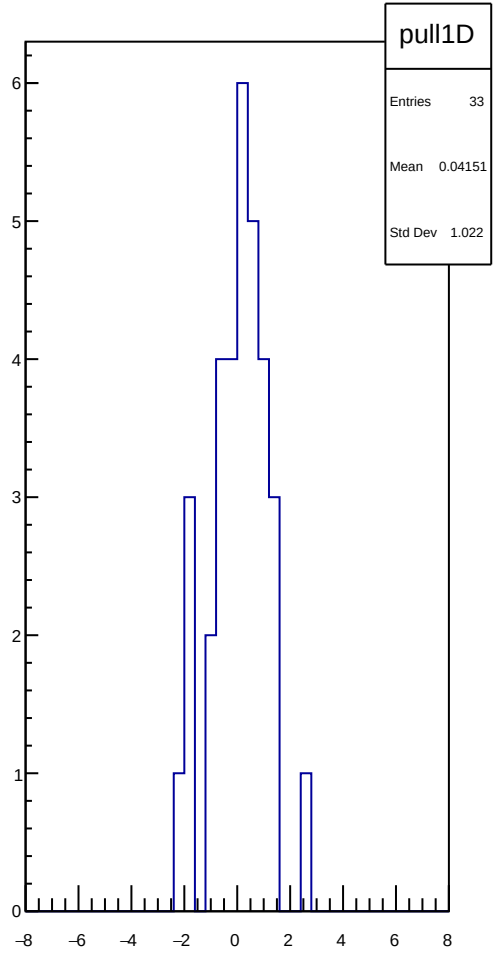

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 6890 / 25
p0 1808 ± 2.528
2400
2200
2000
1800
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

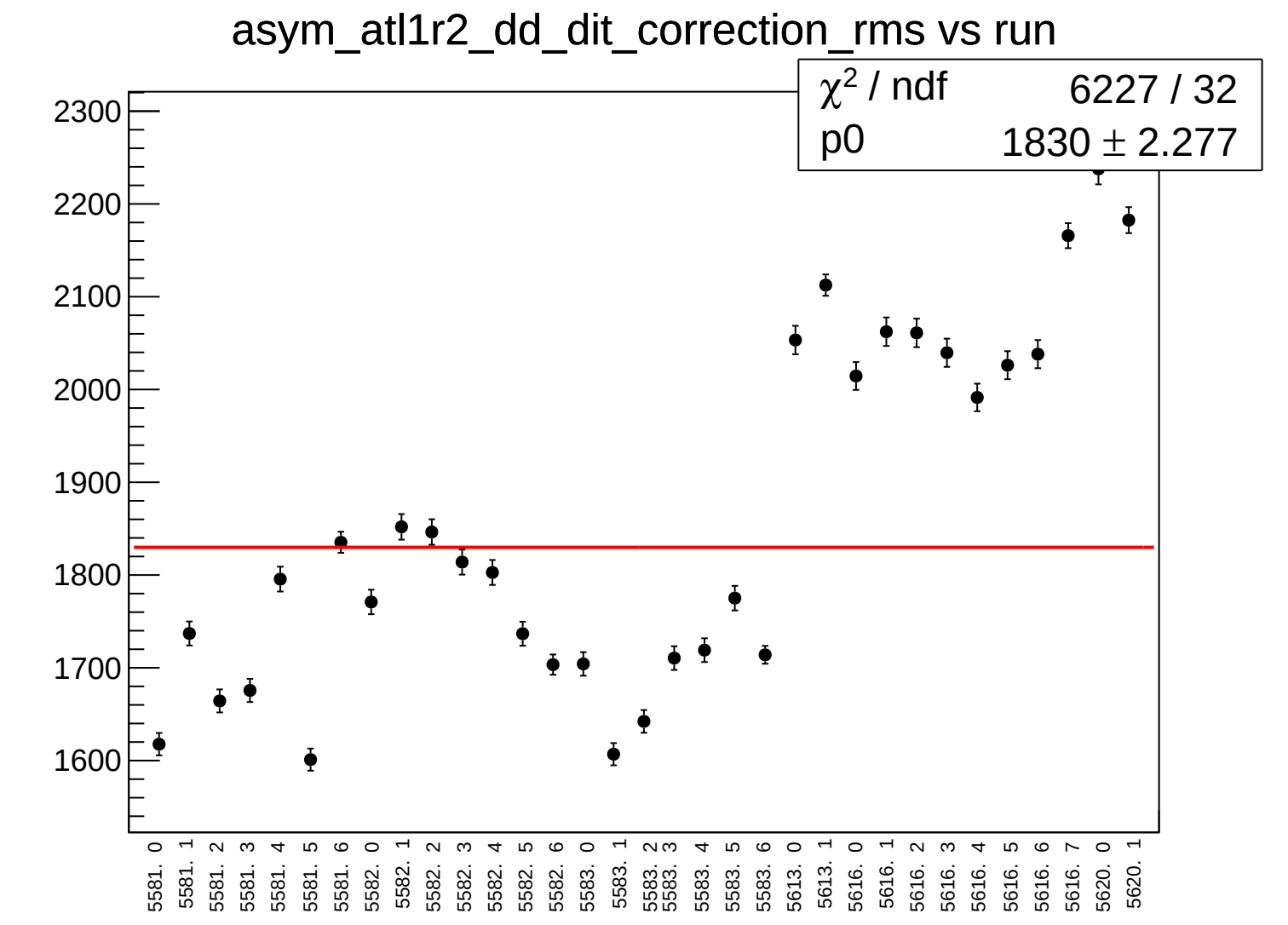

dit_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 19.04 / 24
p0 6936 ± 3992
120
100
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −33.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

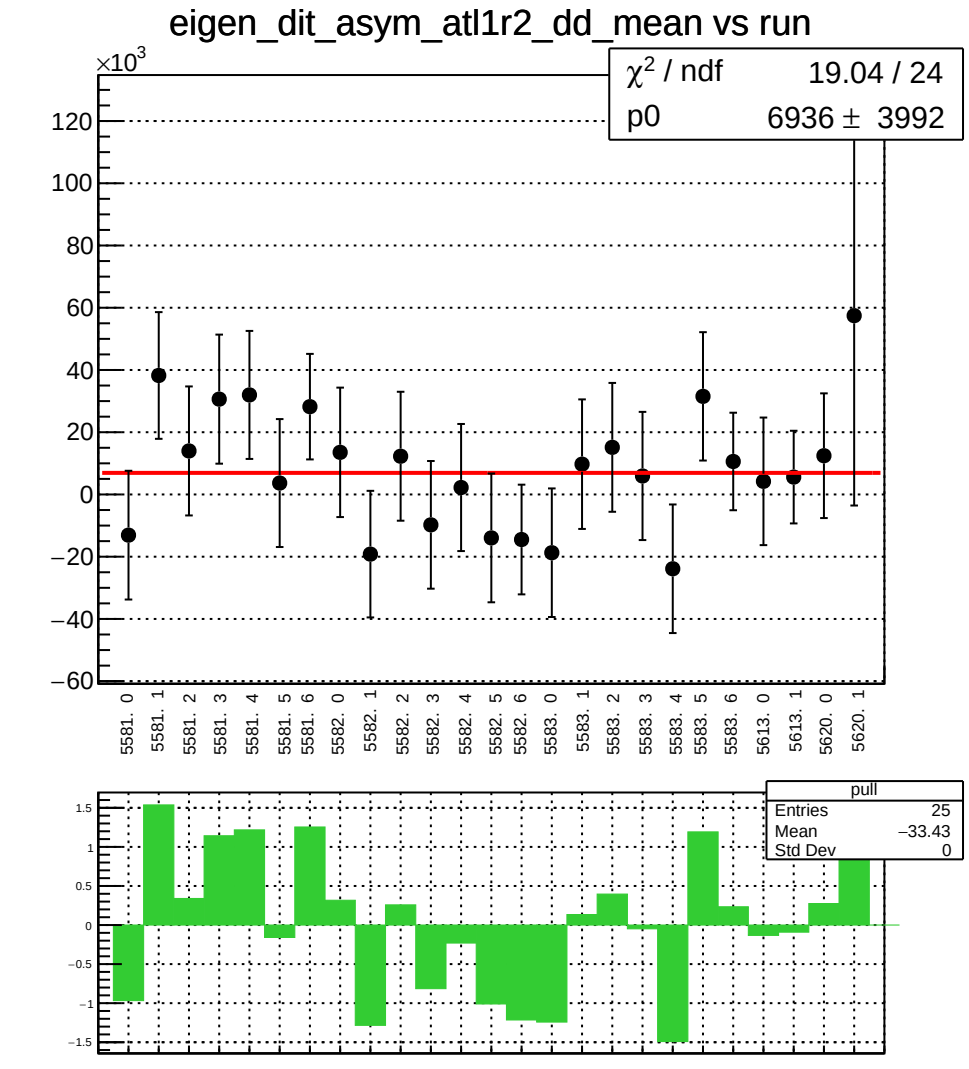

pull1D
Entries 25
Mean 0.01771
Std Dev 0.8725
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

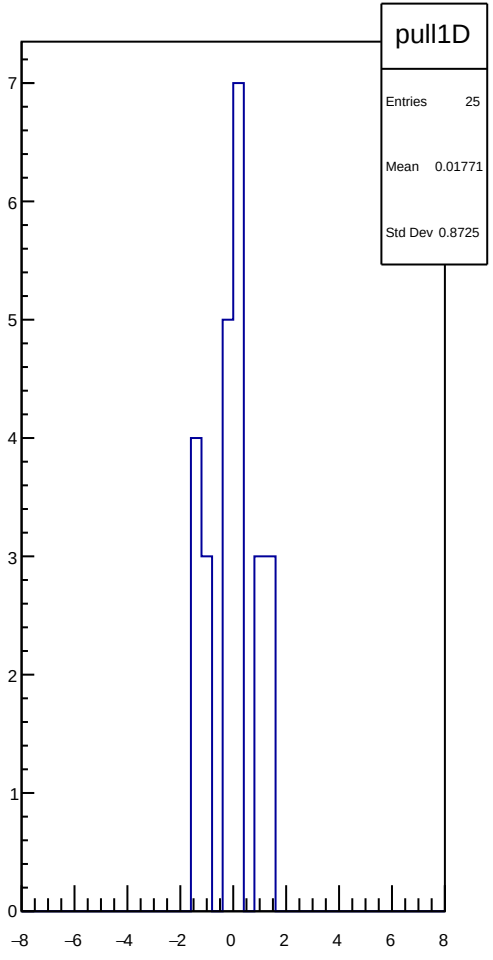

dit_asym_atl1r2_dd_rms vs run
×10^3
χ^2 / ndf 1.099e+05 / 32
p0 2024 ± 2.749
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

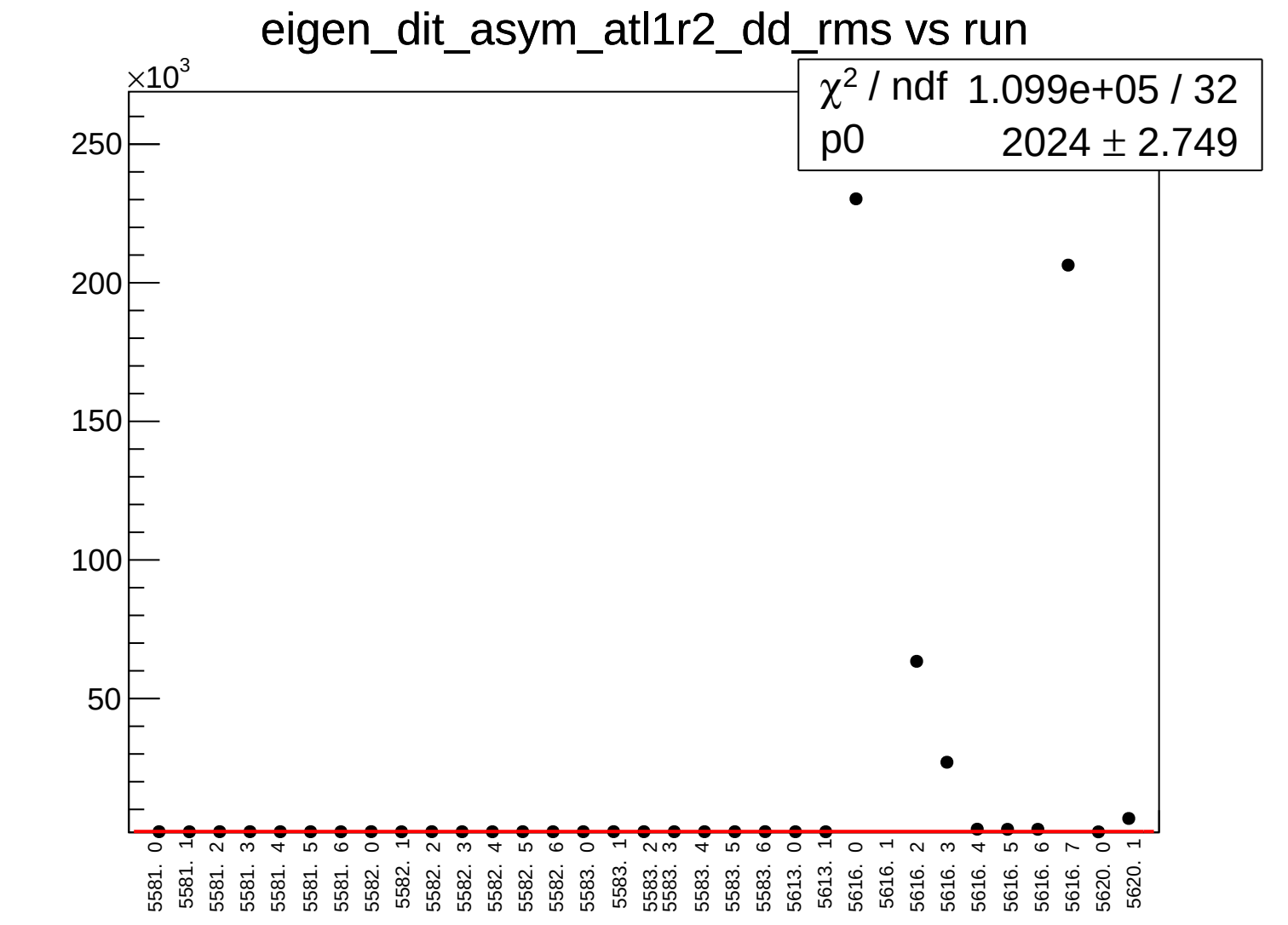

asym_atl1r2_dd_dit_correction_mean vs run
χ² / ndf 34.52 / 32
p0 −592.7 ± 3220
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 71.63
Std Dev 0
2
1
0
−1
−2

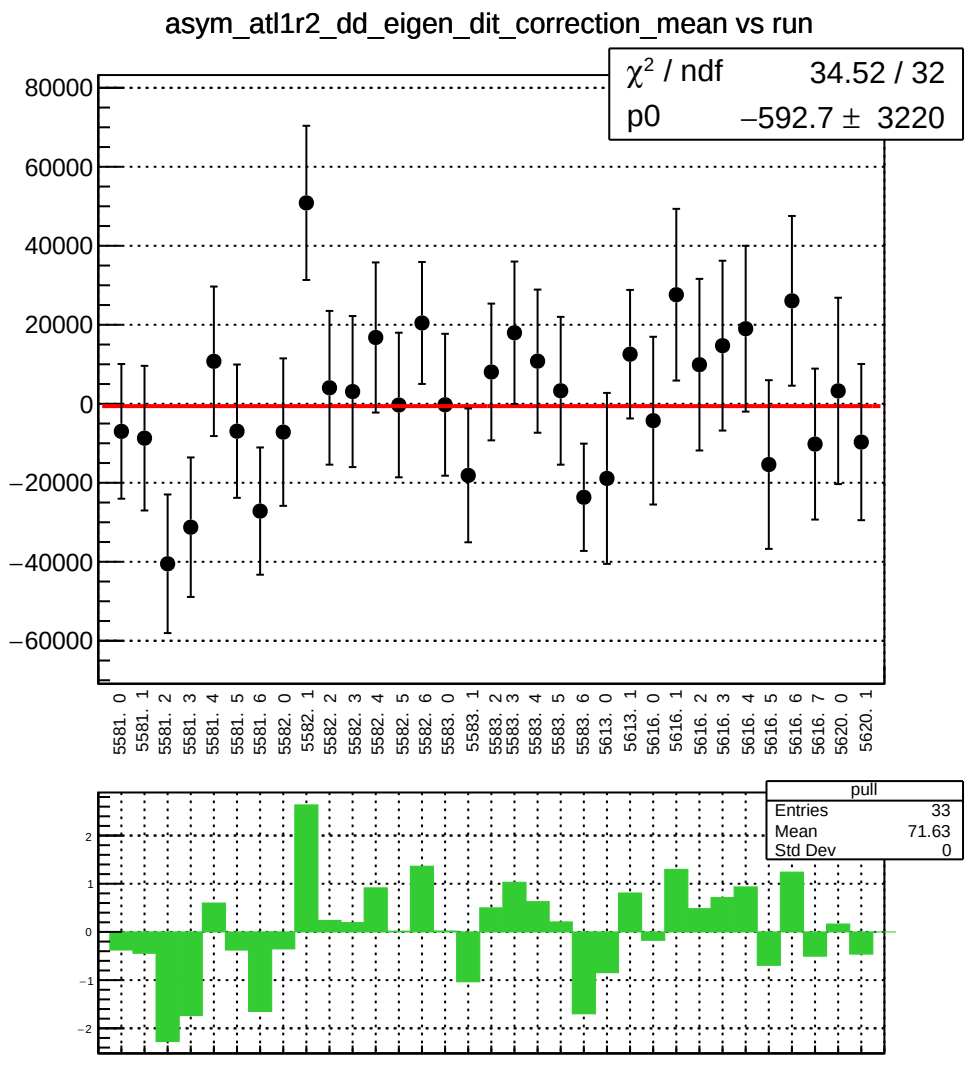

pull1D
Entries 33
Mean 0.04151
Std Dev 1.022
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

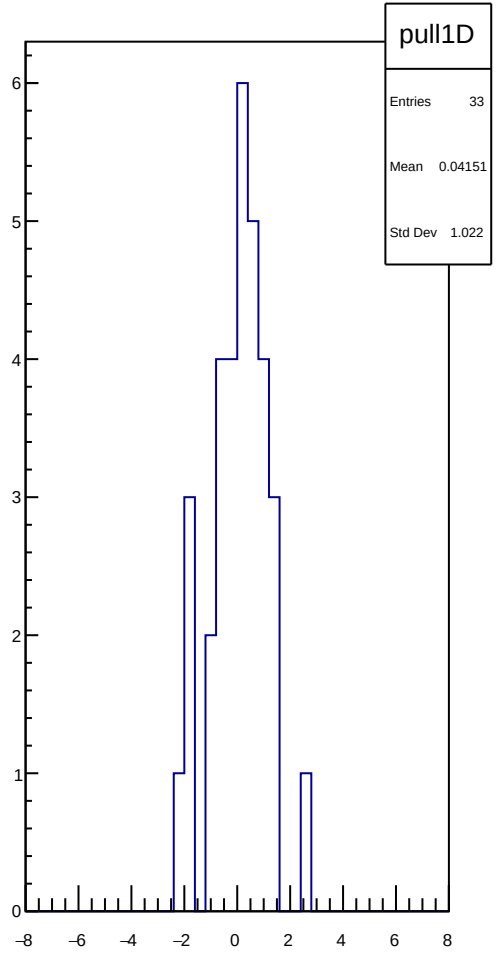

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 6227 / 32
p0 1830 ± 2.277
2300
2200
2100
2000
1900
1800
1700
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

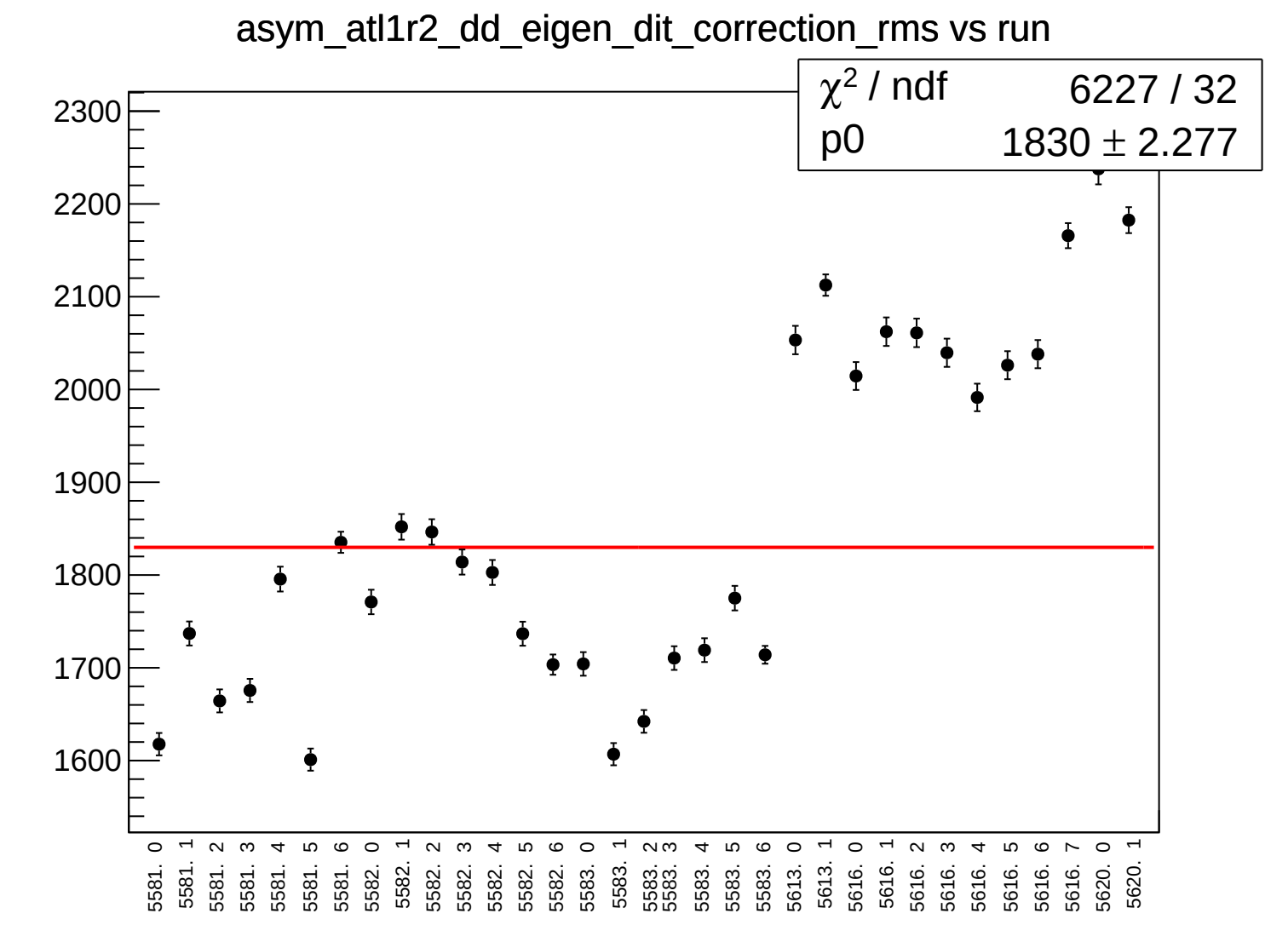

eigen_dit_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 19.04 / 24
p0 6936 ± 3992
120
100
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −33.43
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

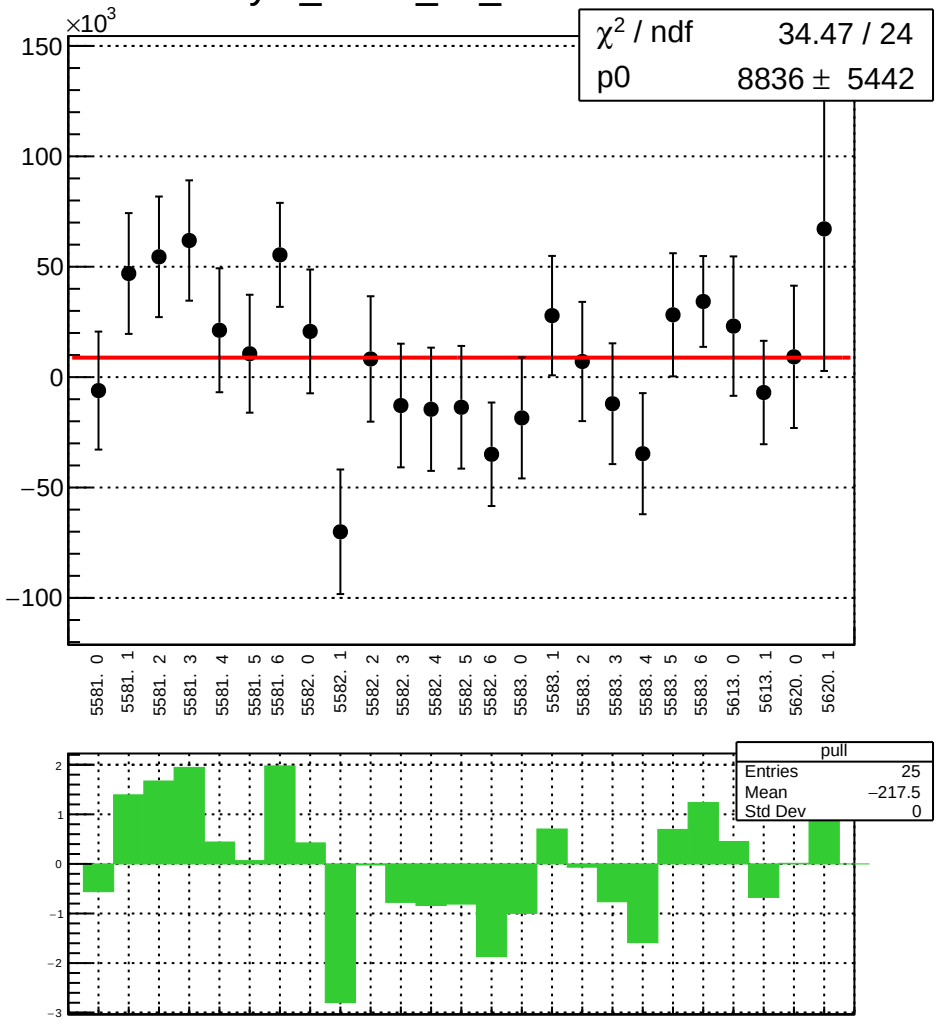

pull1D
Entries 25
Mean 0.01771
Std Dev 0.8725
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

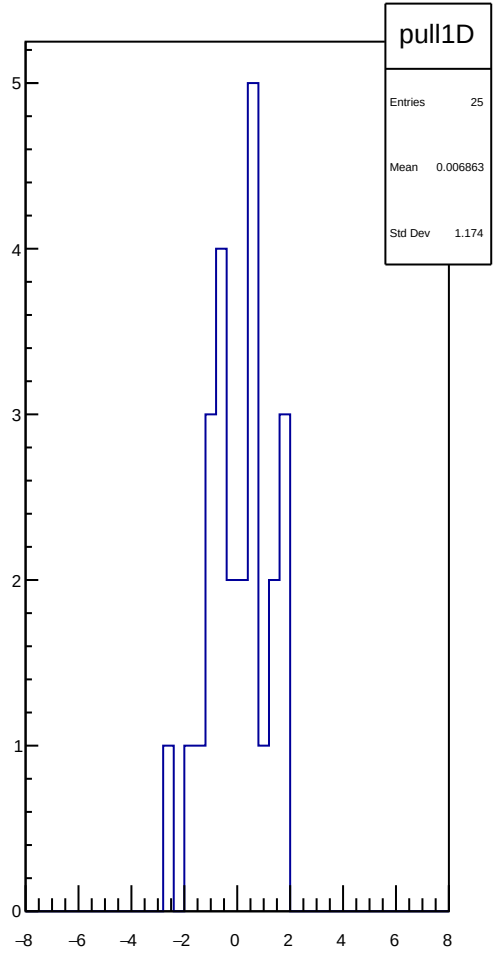

eigen_dit_asym_atl1r2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.099e+05 / 32
p0 2024 ± 2.749
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

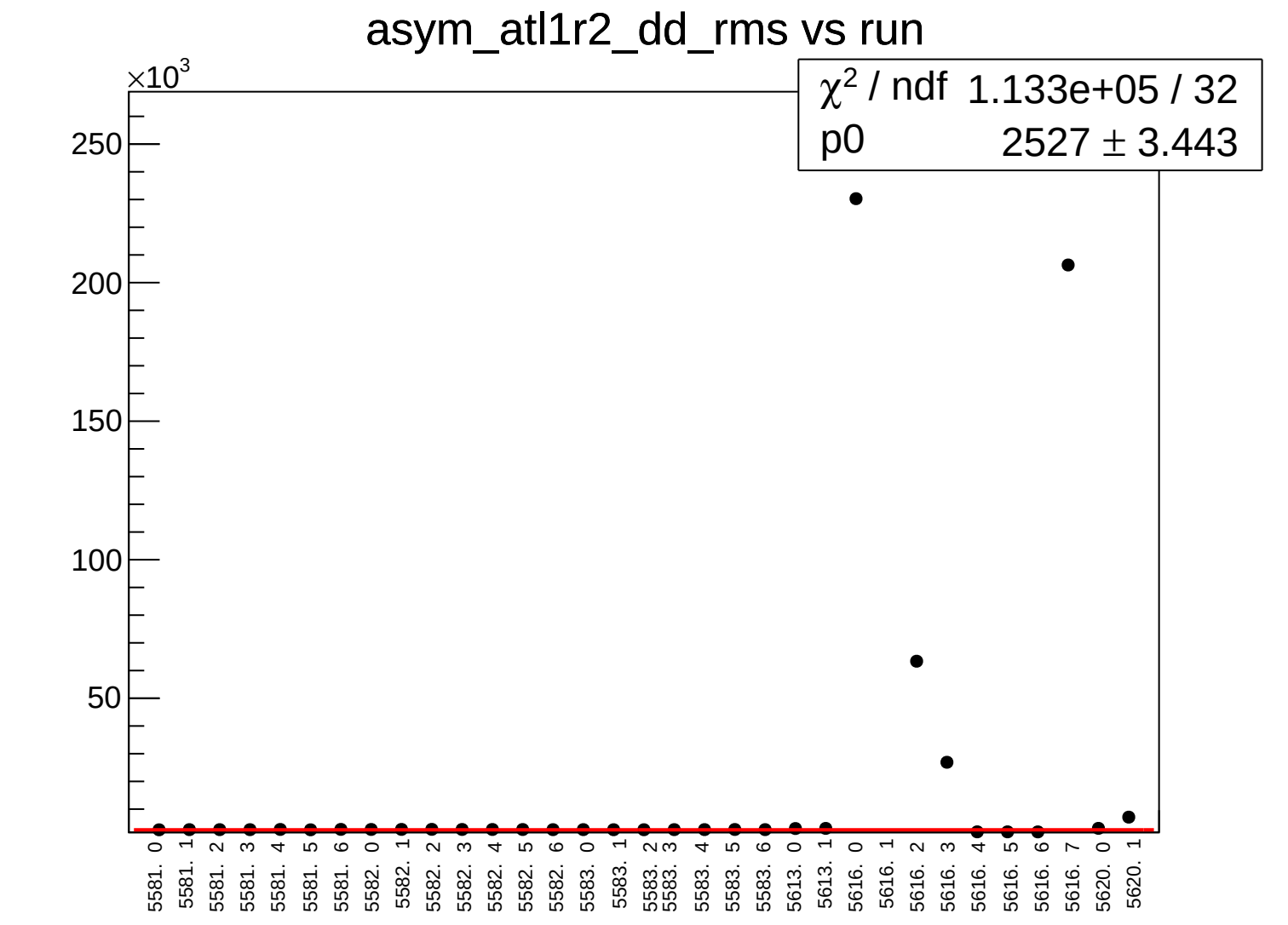

asym_atl1r2_dd_eigen_dit_correction_mean vs run
χ² / ndf 34.52 / 32
p0 −592.7 ± 3220
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 71.63
Std Dev 0
2
1
0
−1
−2

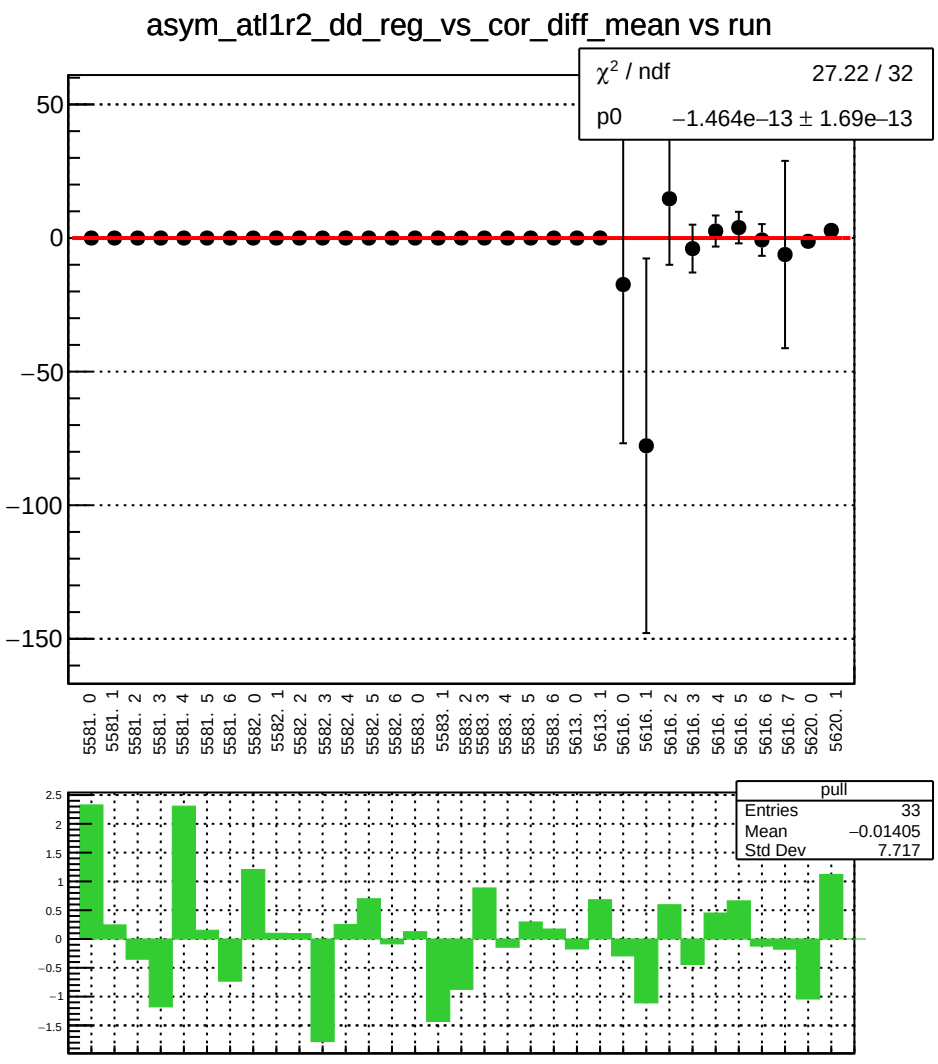

pull1D
Entries 33
Mean 0.04151
Std Dev 1.022
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

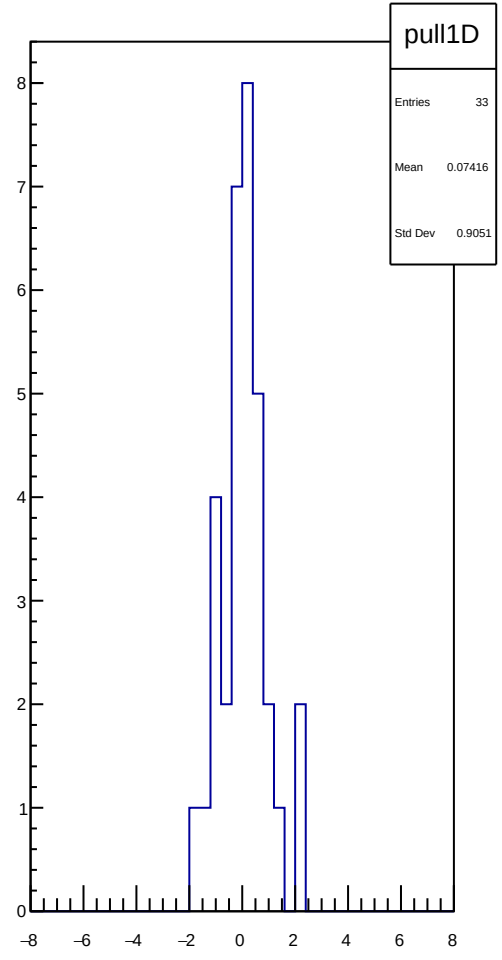

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6227 / 32
p0 1830 ± 2.277
2300
2200
2100
2000
1900
1800
1700
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

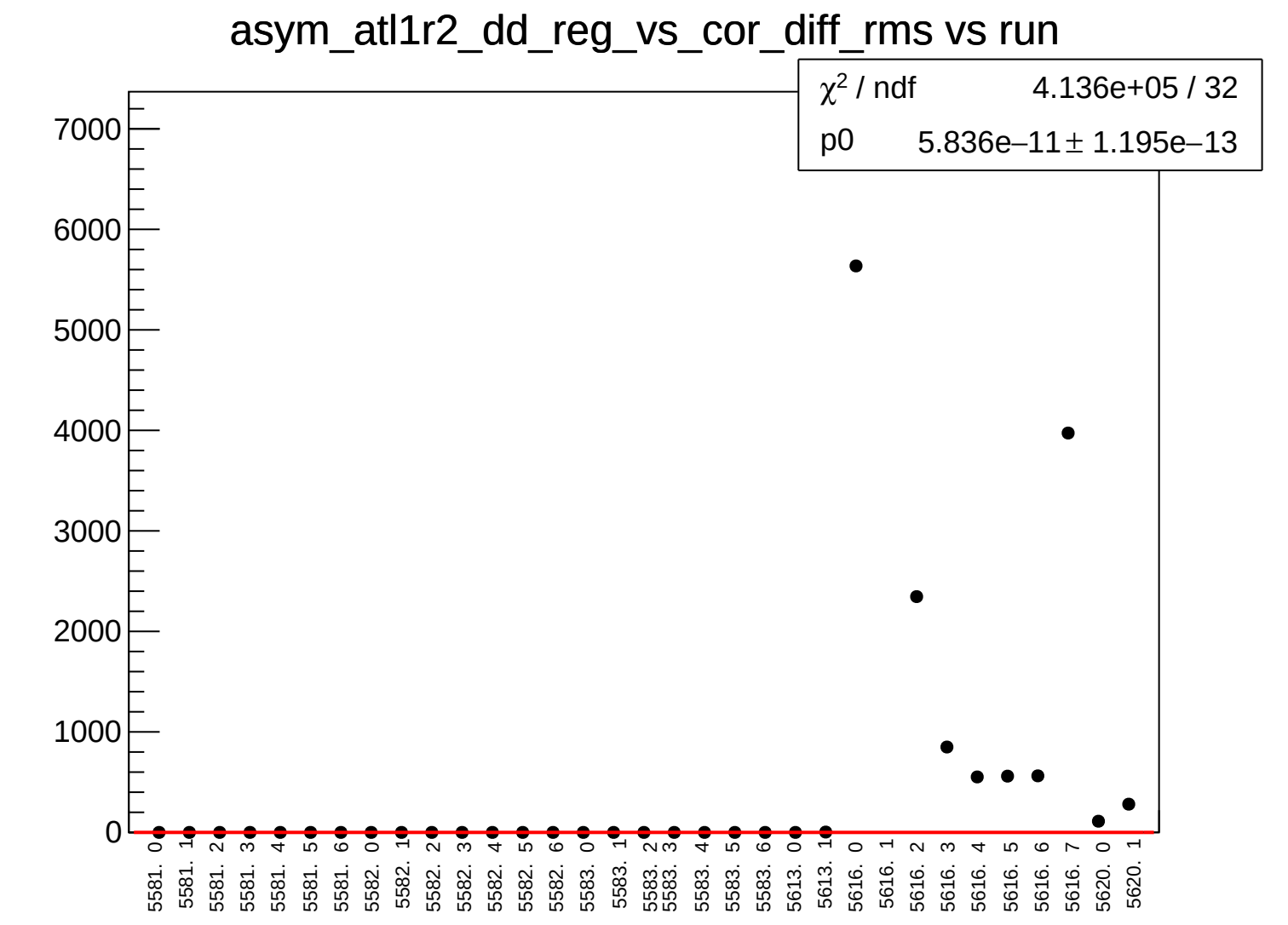

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 34.47 / 24
p0 8836 ± 5442
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −217.5
Std Dev 0
2
1
0
−1
−2
−3

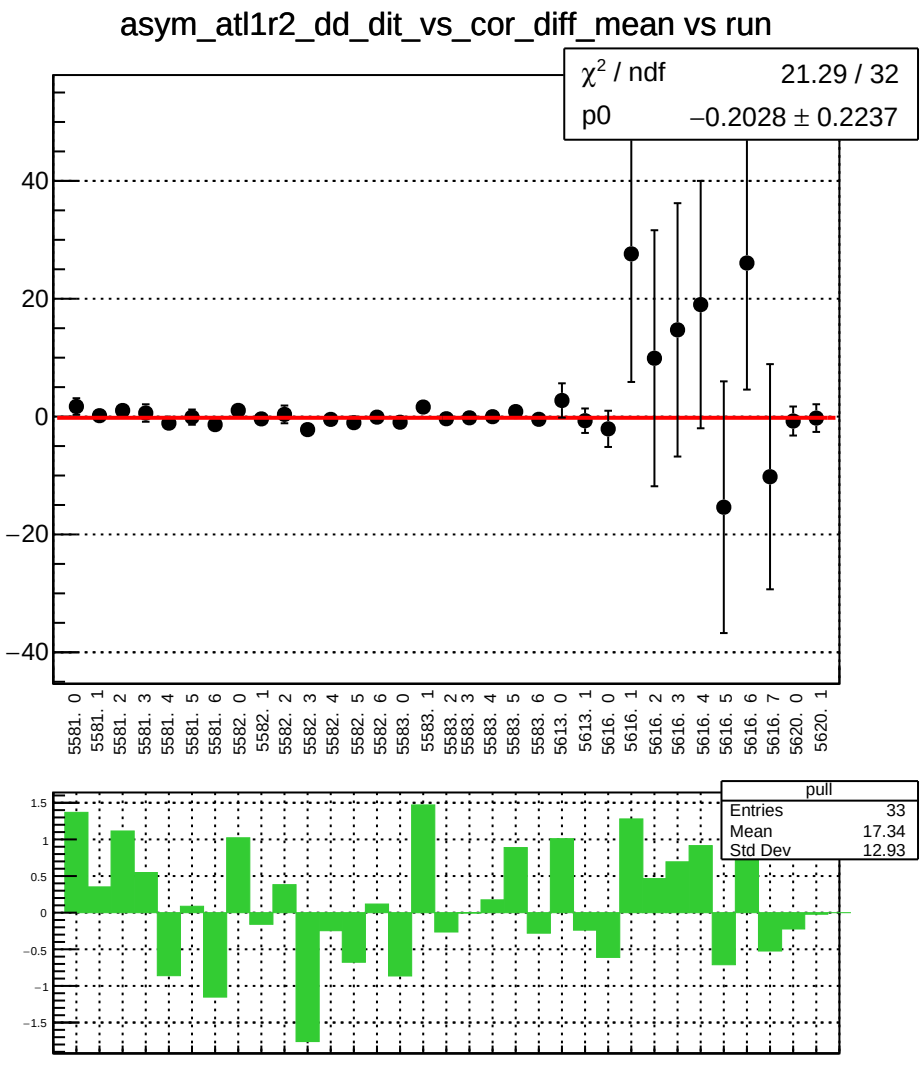

pull1D
Entries 25
Mean 0.006863
Std Dev 1.174
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

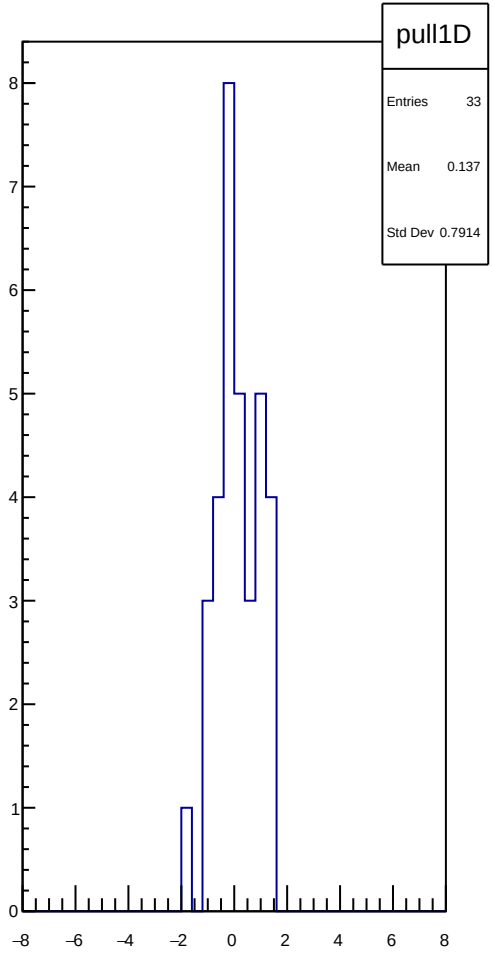

asym_atl1r2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.133e+05 / 32
p0 2527 ± 3.443
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

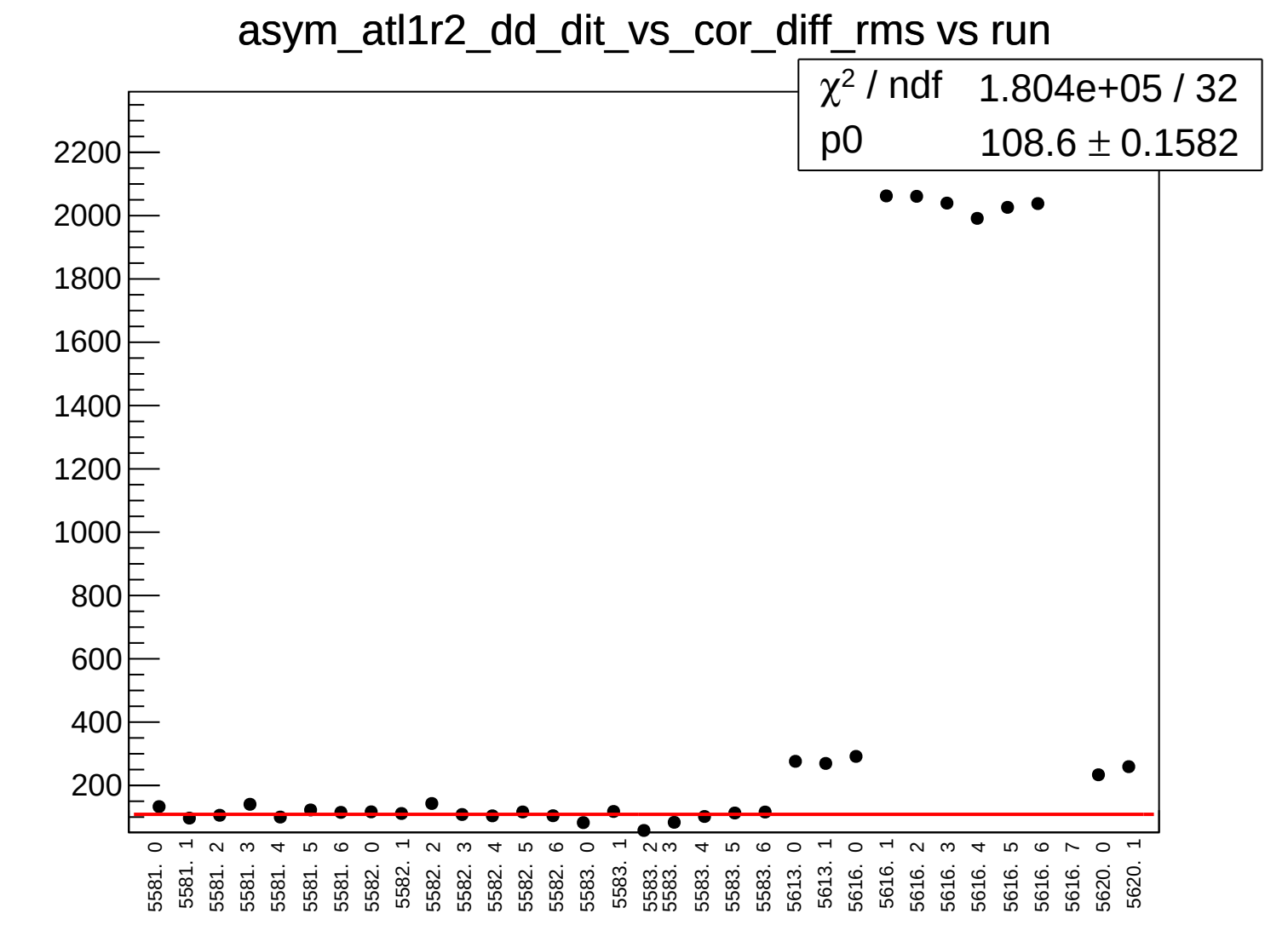

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 27.22 / 32
p0 −1.464e−13 ± 1.69e−13
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.01405
Std Dev 7.717
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

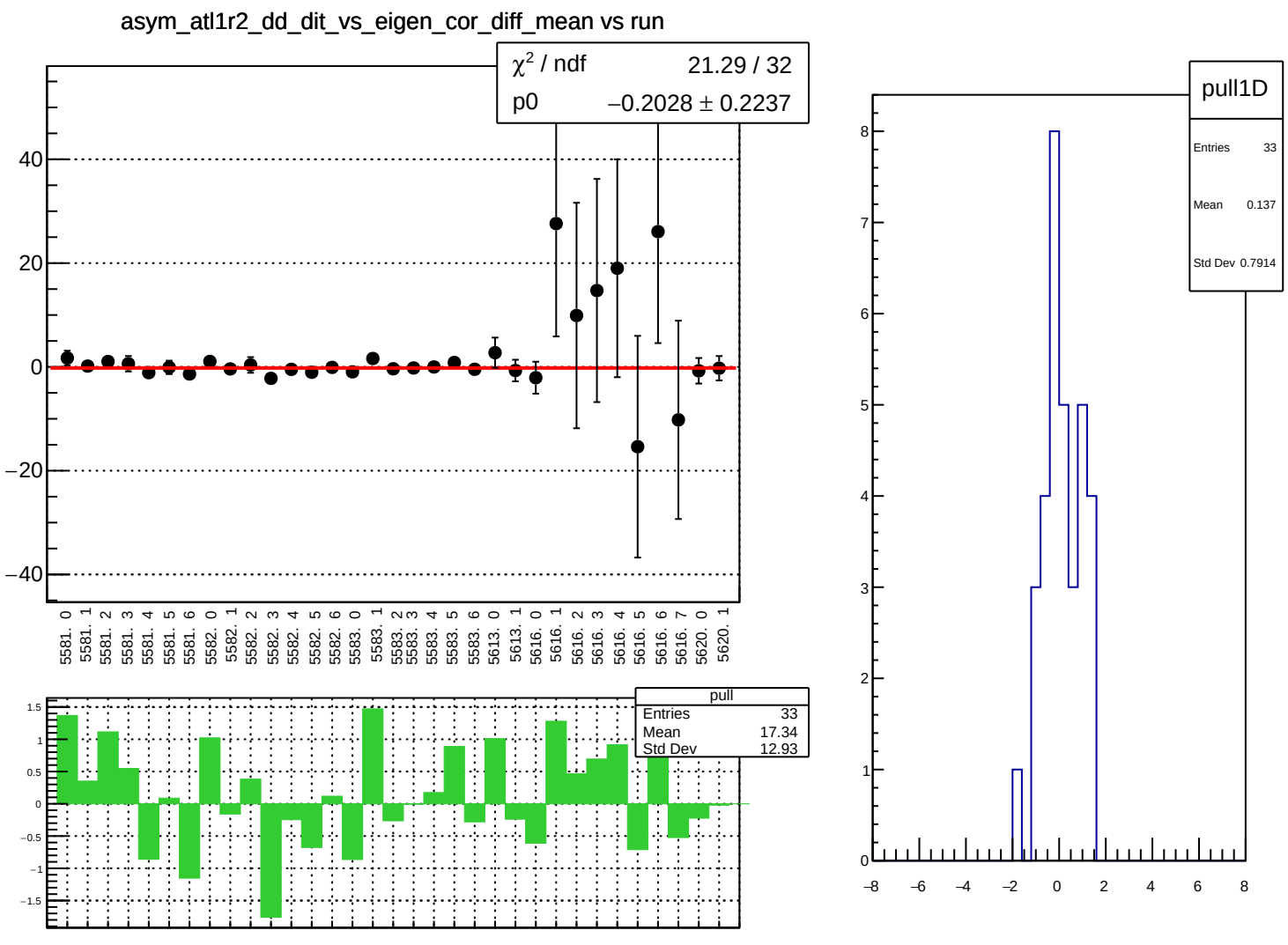

pull1D
Entries 33
Mean 0.07416
Std Dev 0.9051
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

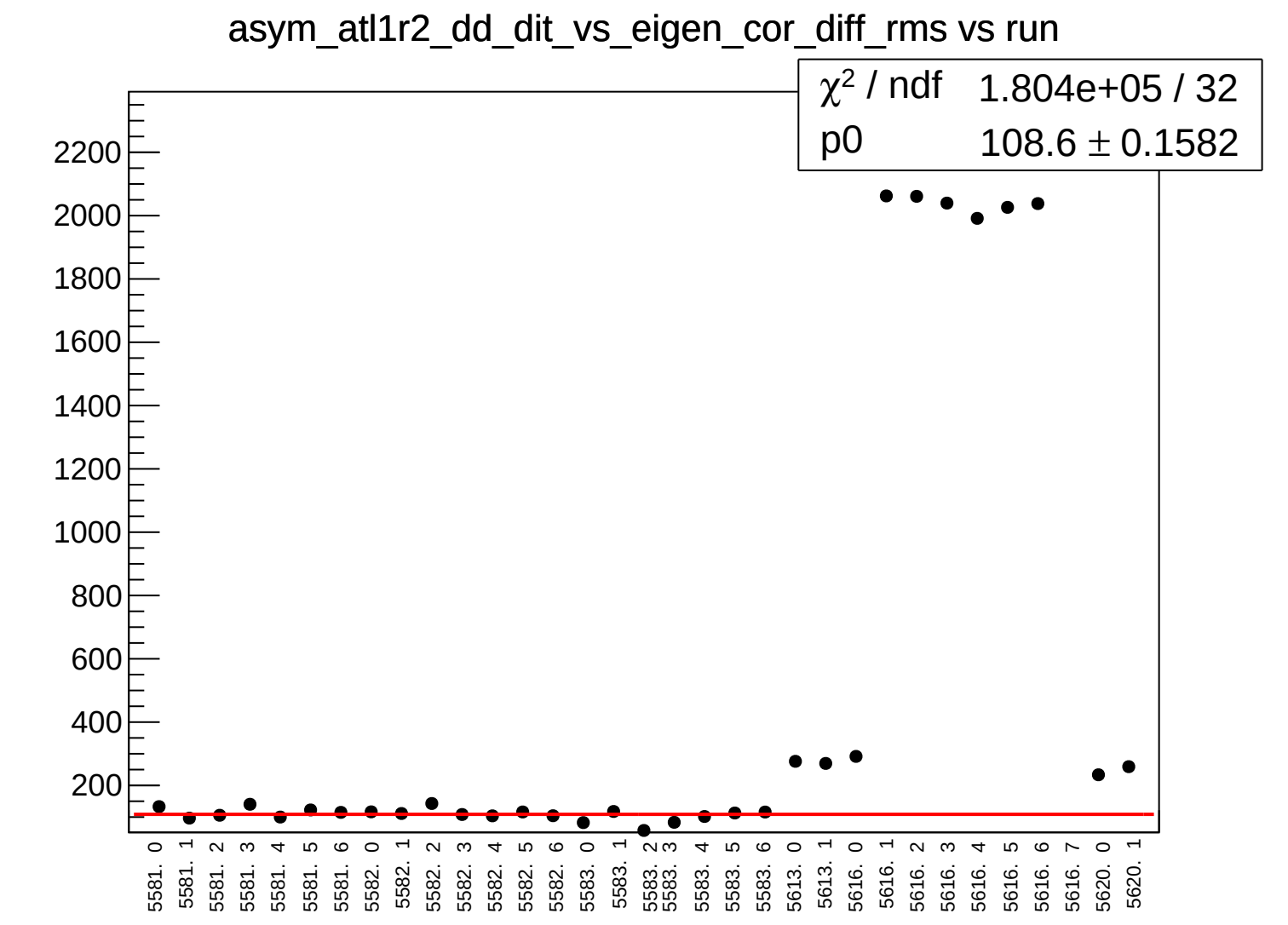

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.136e+05 / 32
p0 5.836e−11 ± 1.195e−13
7000
6000
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

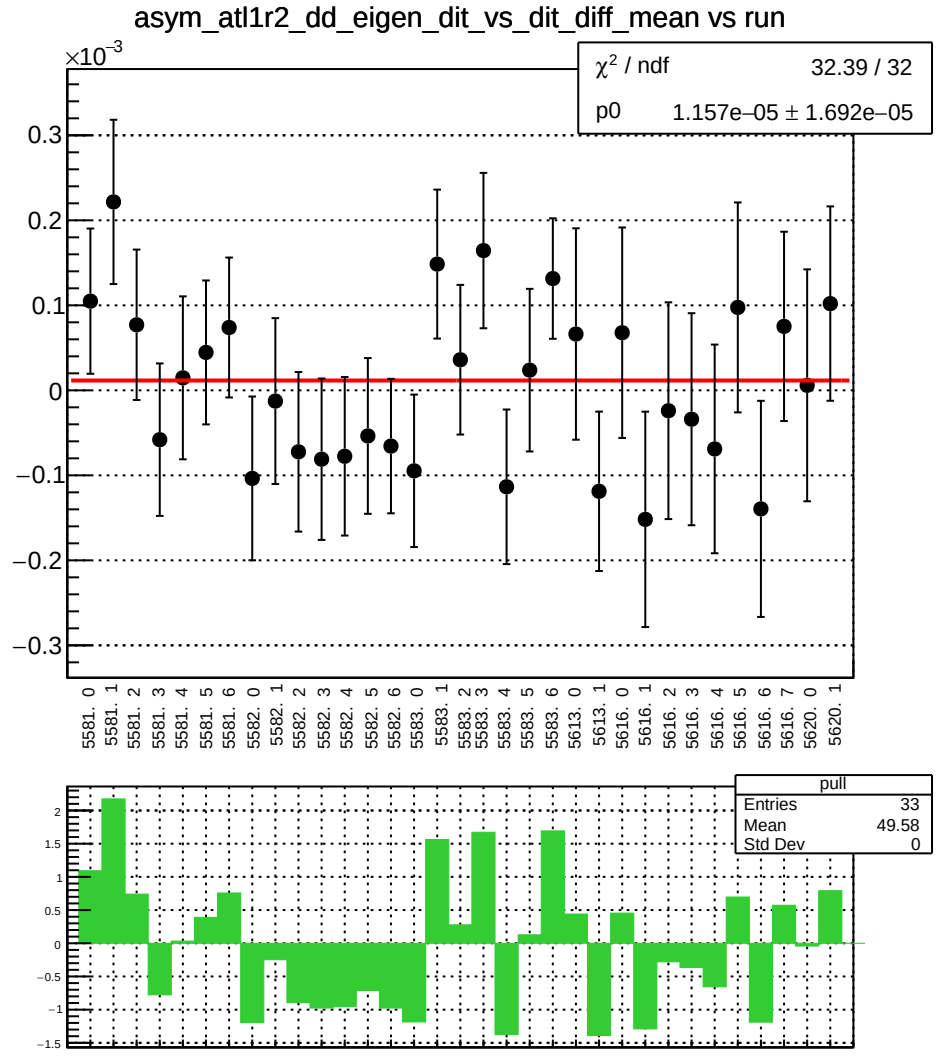

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 21.29 / 32
p0 −0.2028 ± 0.2237
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.34
Std Dev 12.93
1.5
1
0.5
0
−0.5
−1
−1.5

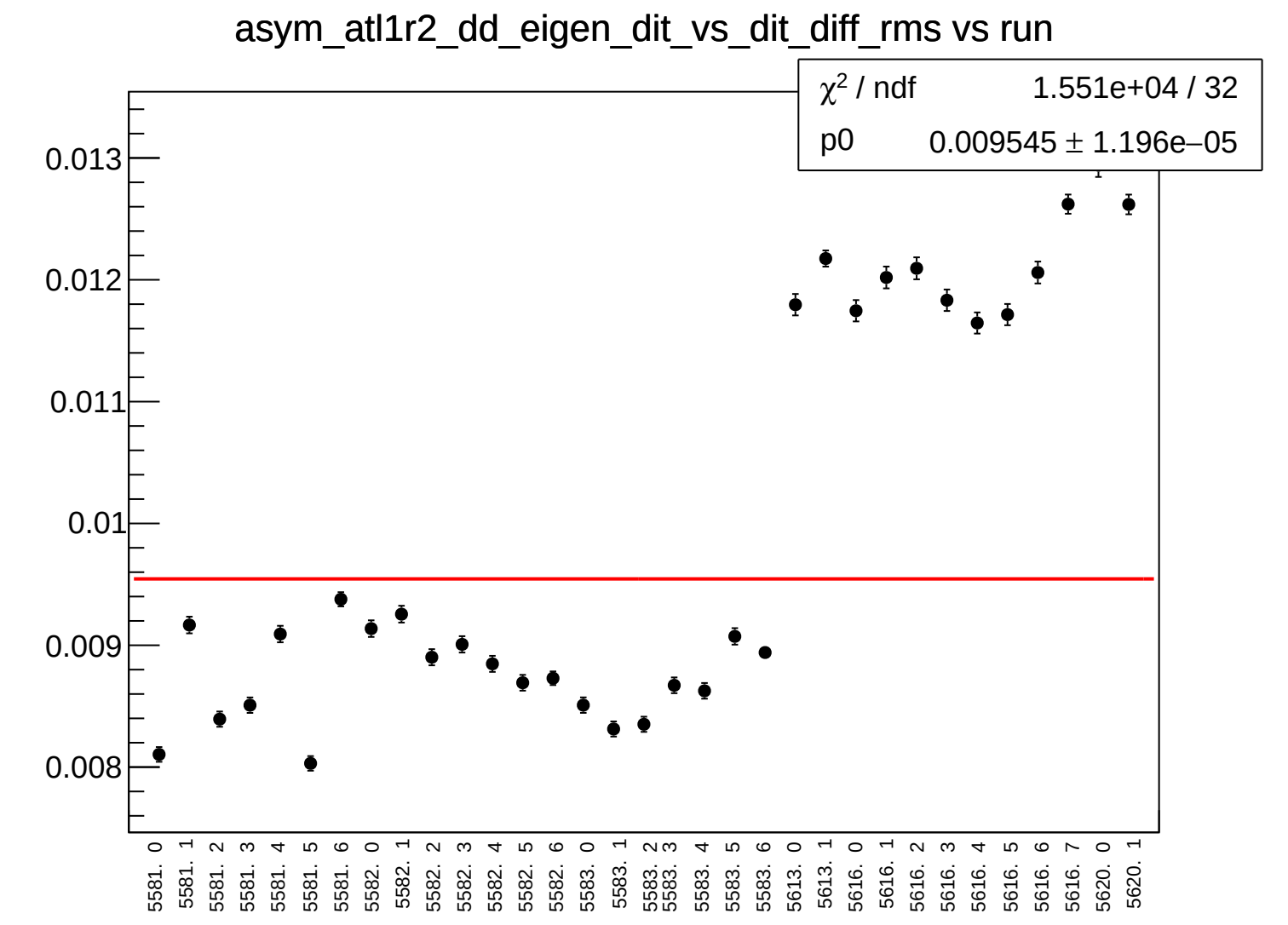

pull1D
Entries 33
Mean 0.137
Std Dev 0.7914
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

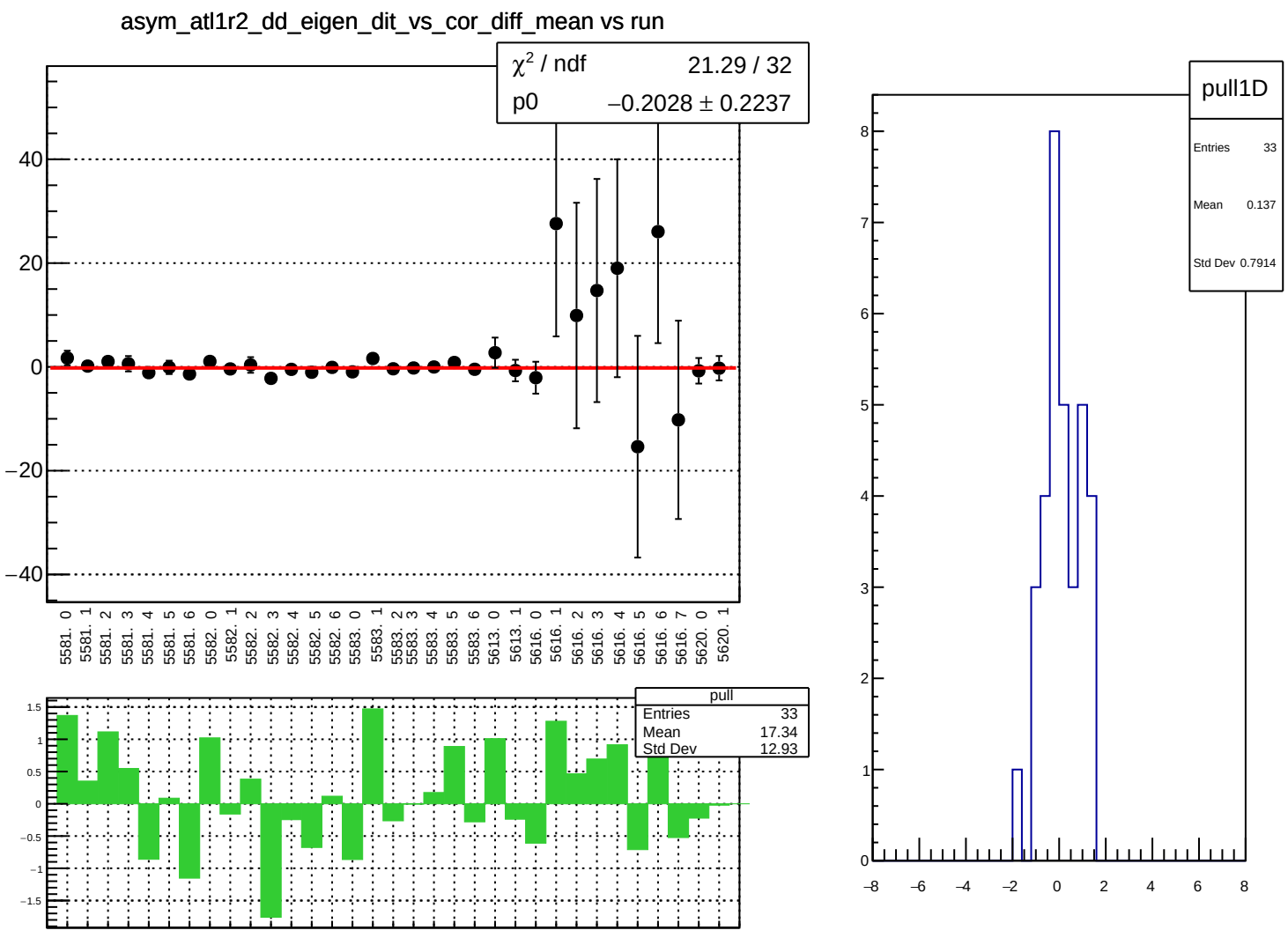

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.804e+05 / 32
p0 108.6 ± 0.1582
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

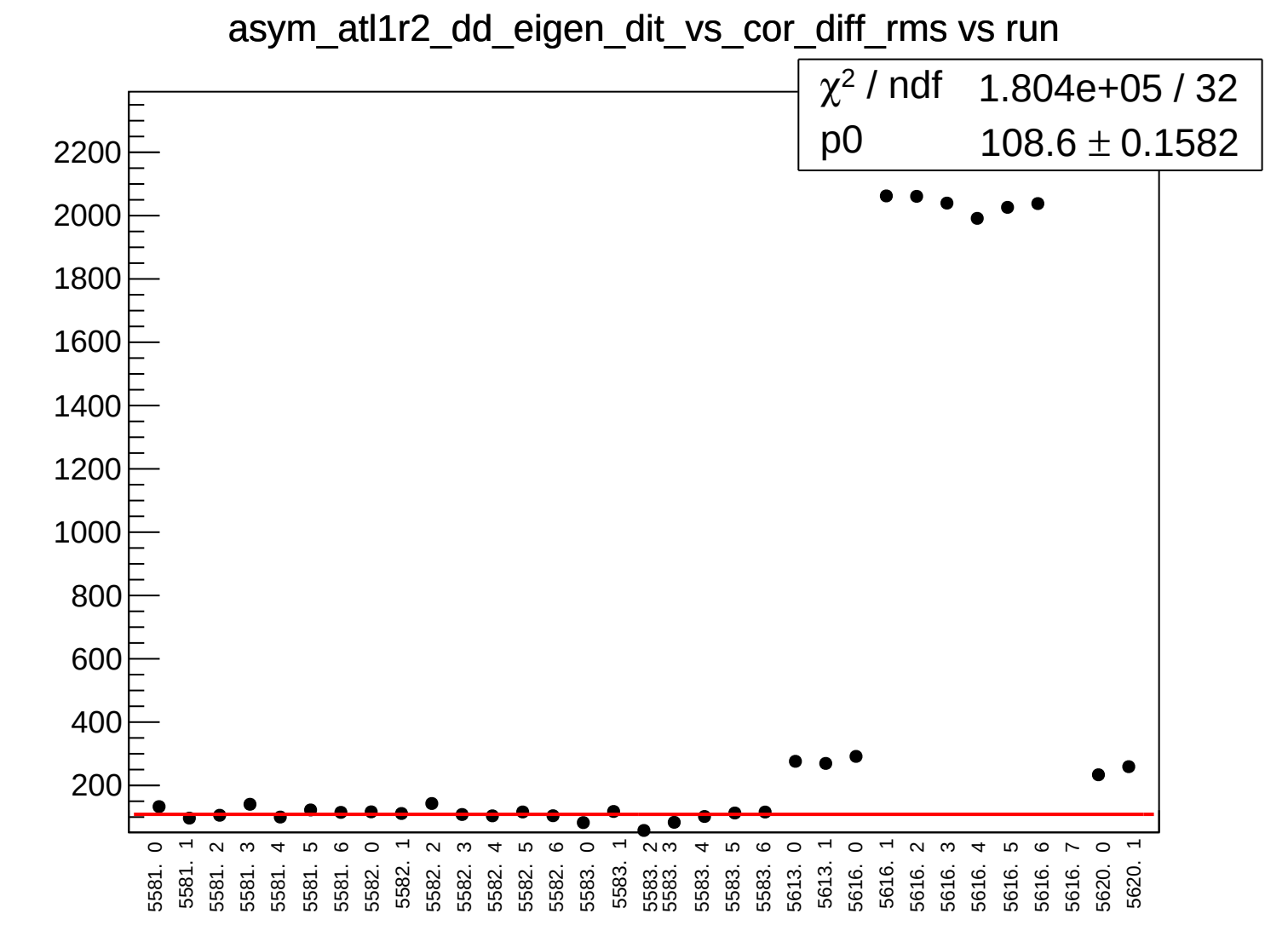

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.29 / 32
p0 −0.2028 ± 0.2237
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.34
Std Dev 12.93
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.137
Std Dev 0.7914
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

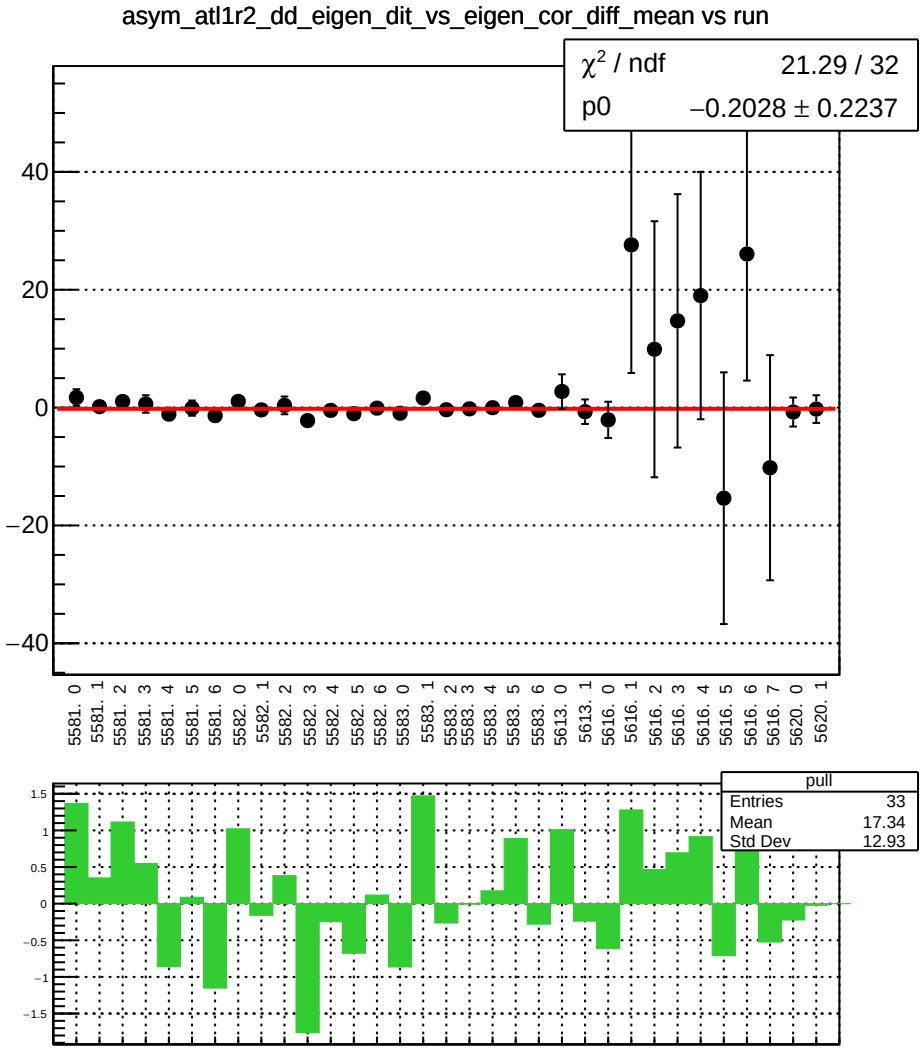

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.804e+05 / 32
p0 108.6 ± 0.1582
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

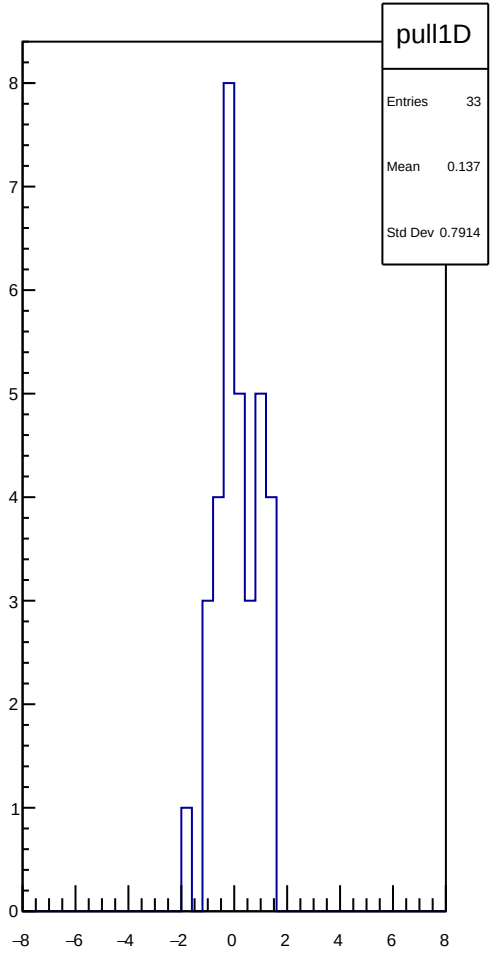

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.39 / 32
p0 1.157e−05 ± 1.692e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.03119
Std Dev 0.9903
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

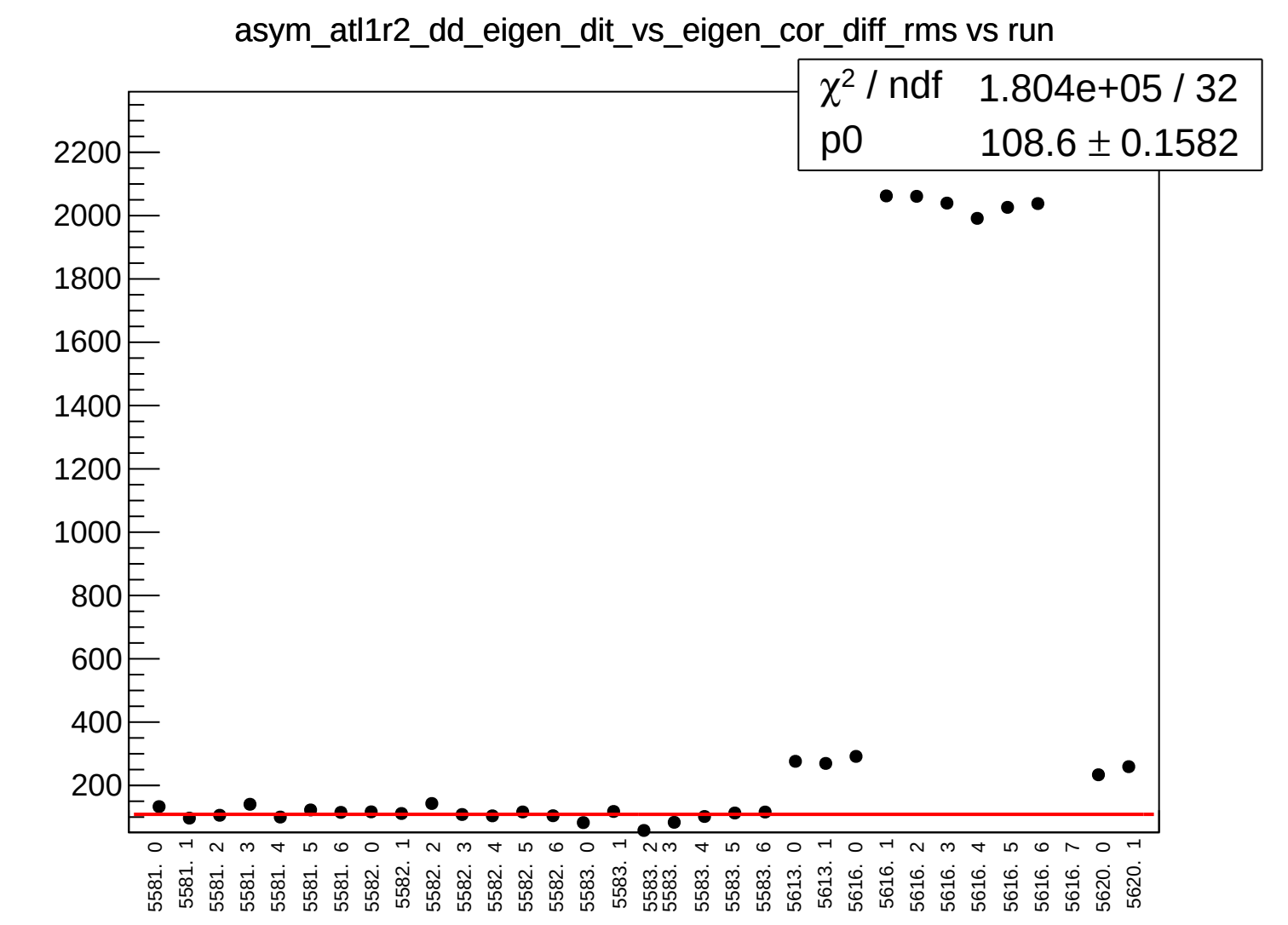

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.551e+04 / 32
p0 0.009545 ± 1.196e−05
0.013
0.012
0.011
0.01
0.009
0.008
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

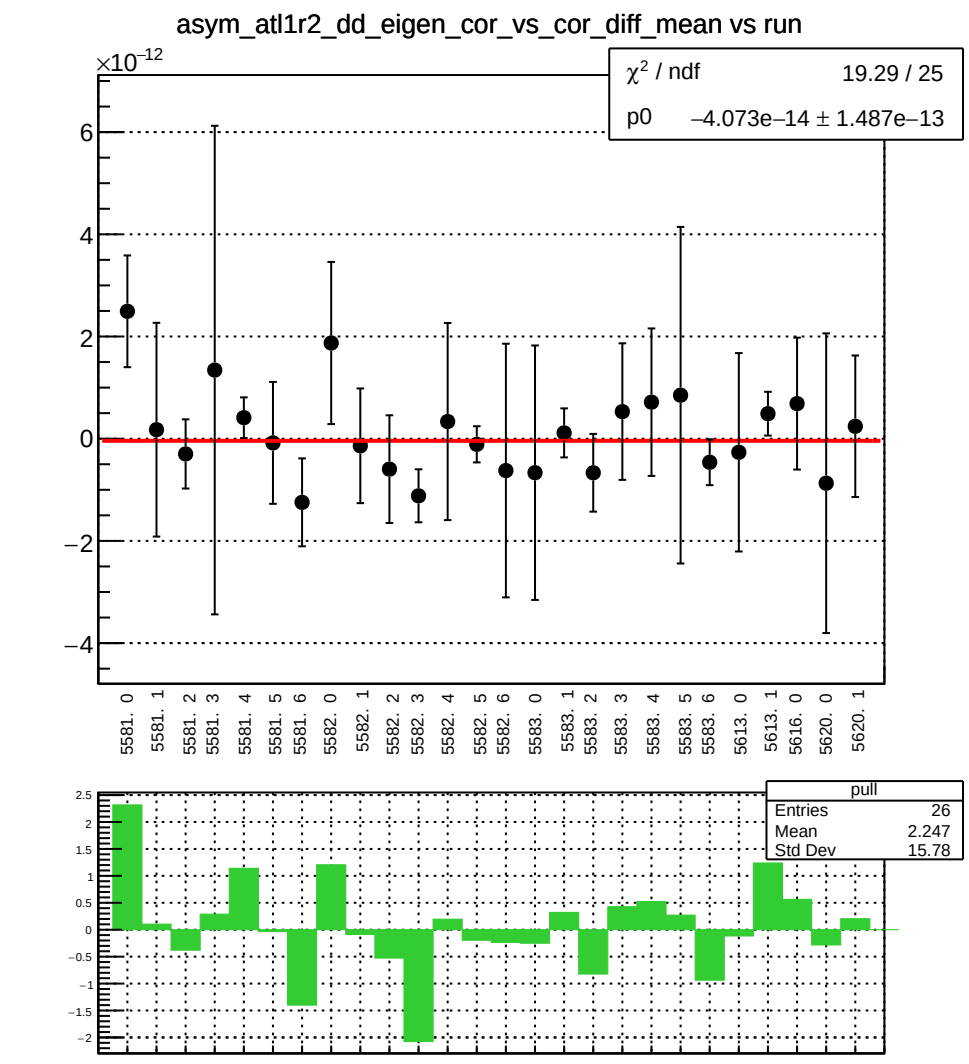

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 21.29 / 32
p0 −0.2028 ± 0.2237
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.34
Std Dev 12.93
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.137
Std Dev 0.7914
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

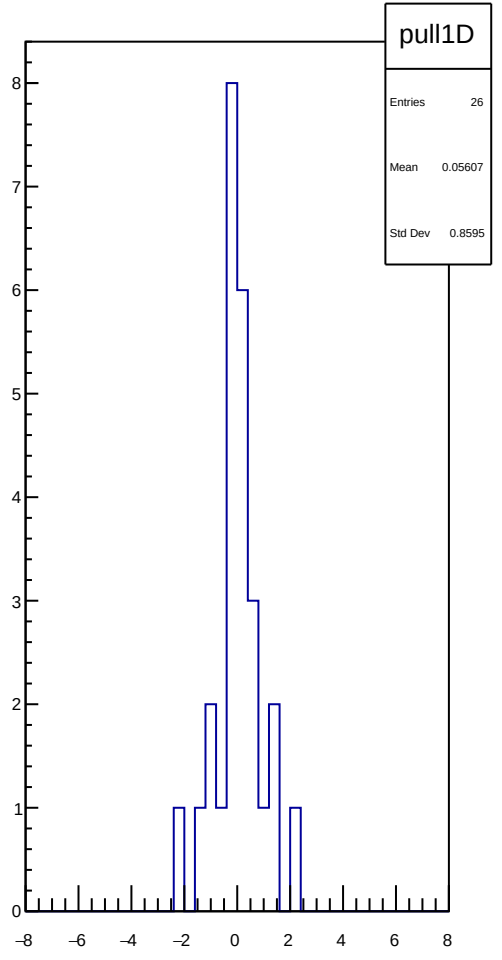

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.804e+05 / 32
p0 108.6 ± 0.1582
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

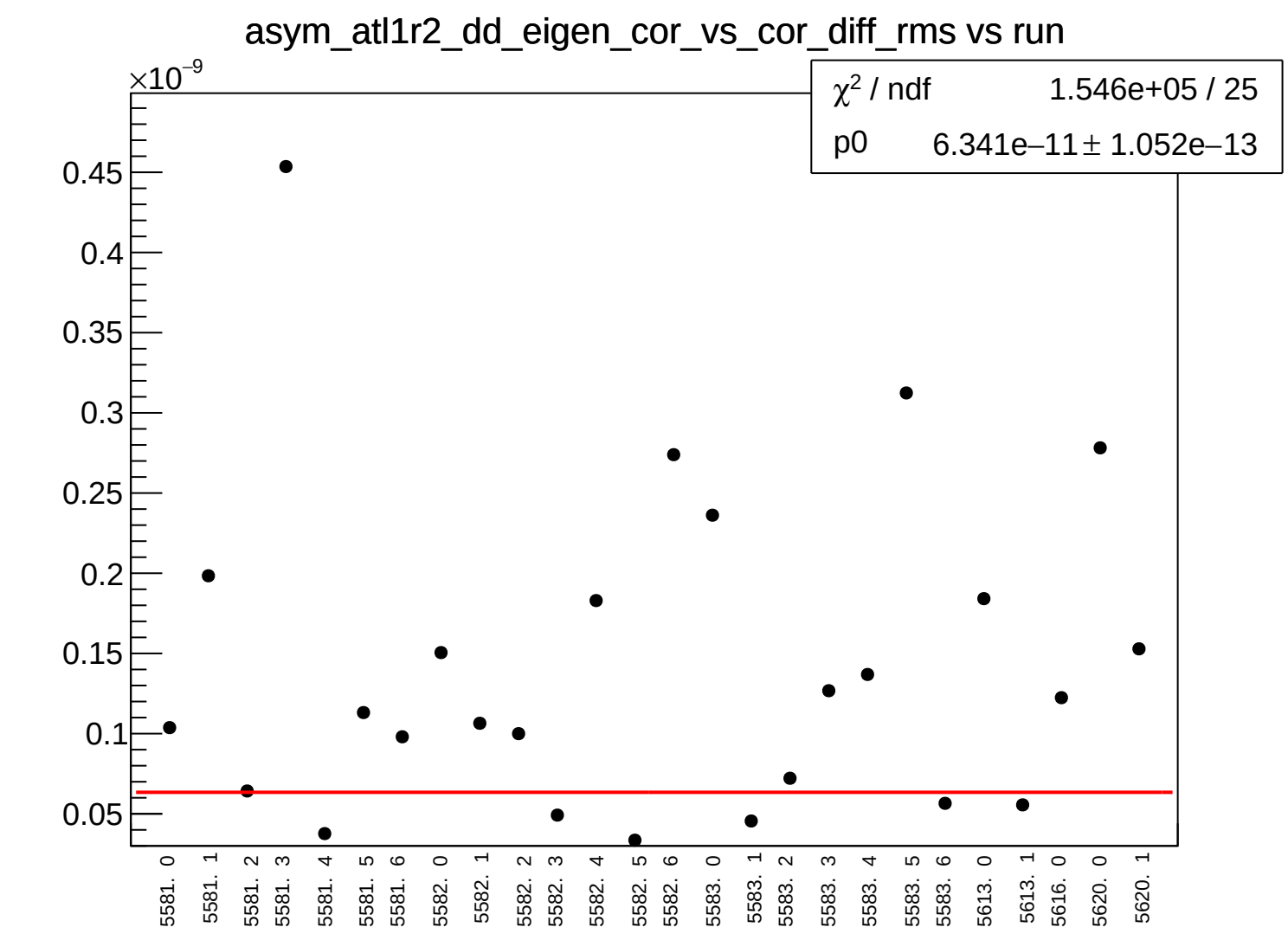

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.29 / 32
p0 −0.2028 ± 0.2237
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.34
Std Dev 12.93
1.5
1
0.5
0
−0.5
−1
−1.5

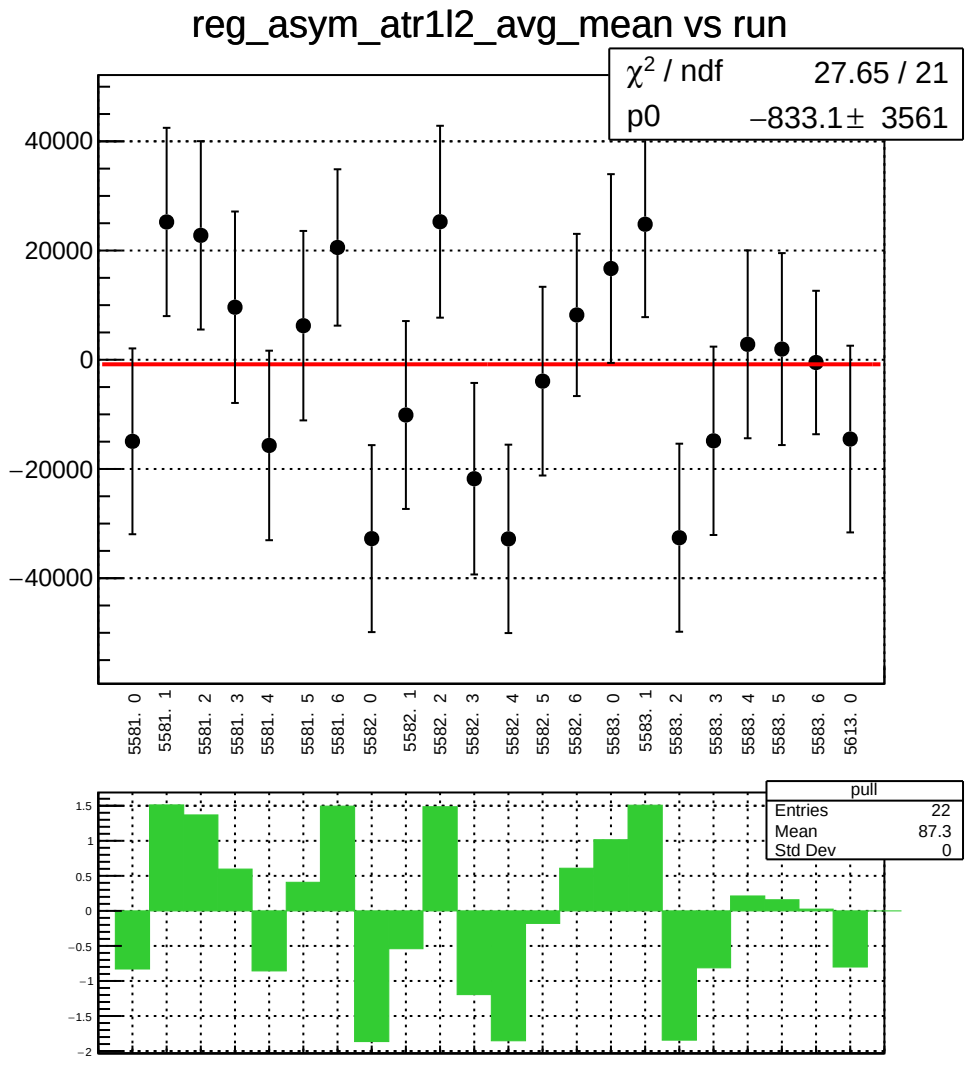

pull1D
Entries 33
Mean 0.137
Std Dev 0.7914
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

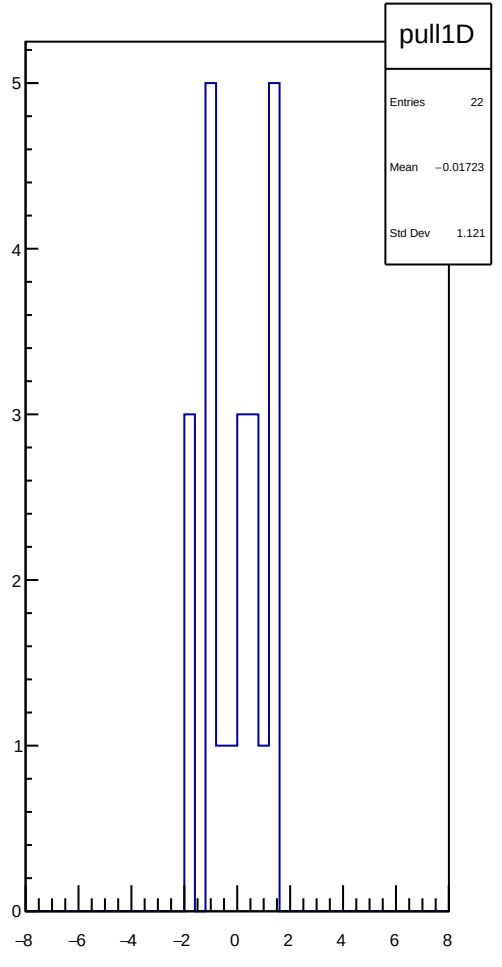

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.804e+05 / 32
p0 108.6 ± 0.1582
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

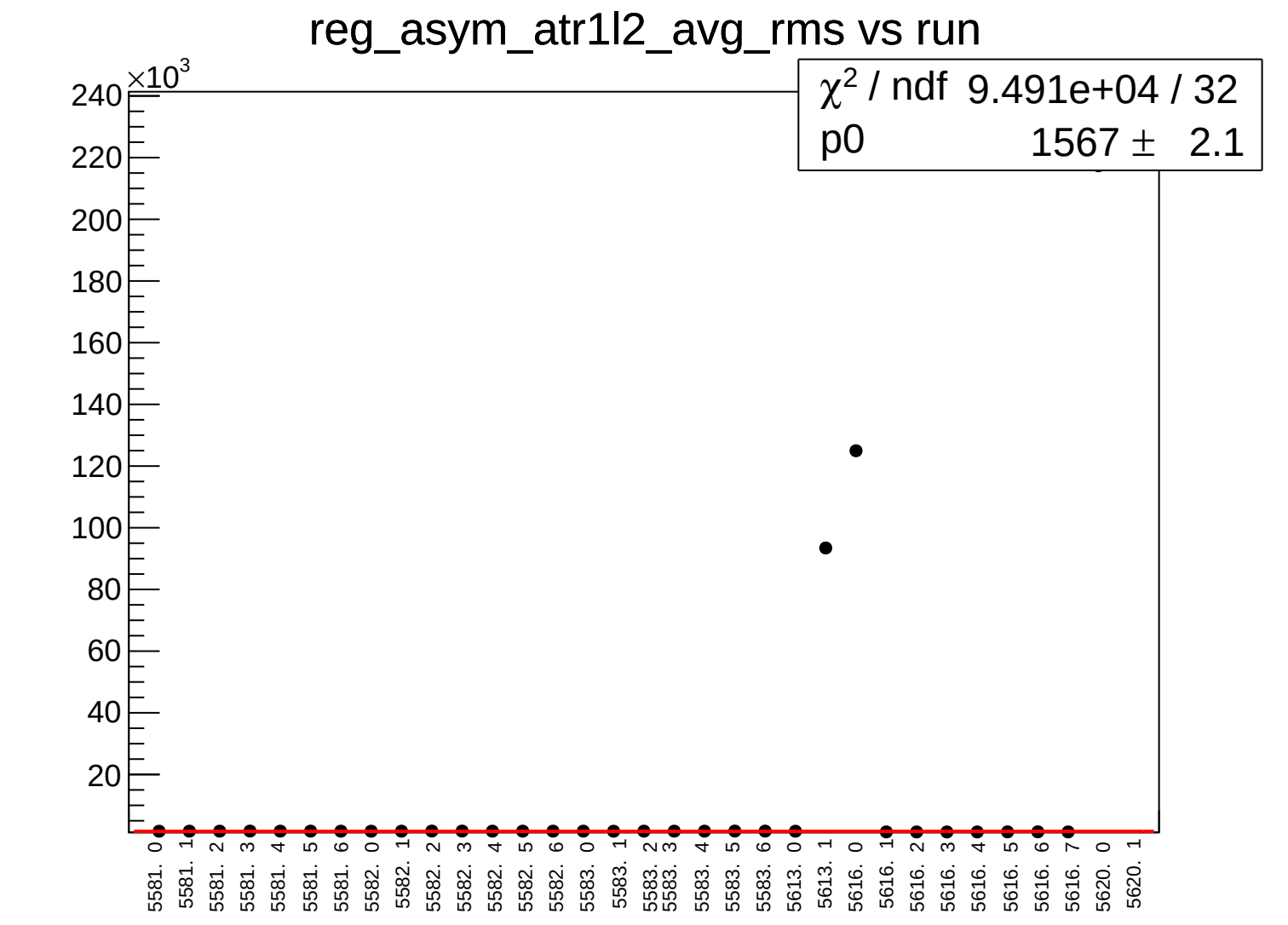

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.29 / 25
p0 −4.073e−14 ± 1.487e−13
6
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 2.247
Std Dev 15.78
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

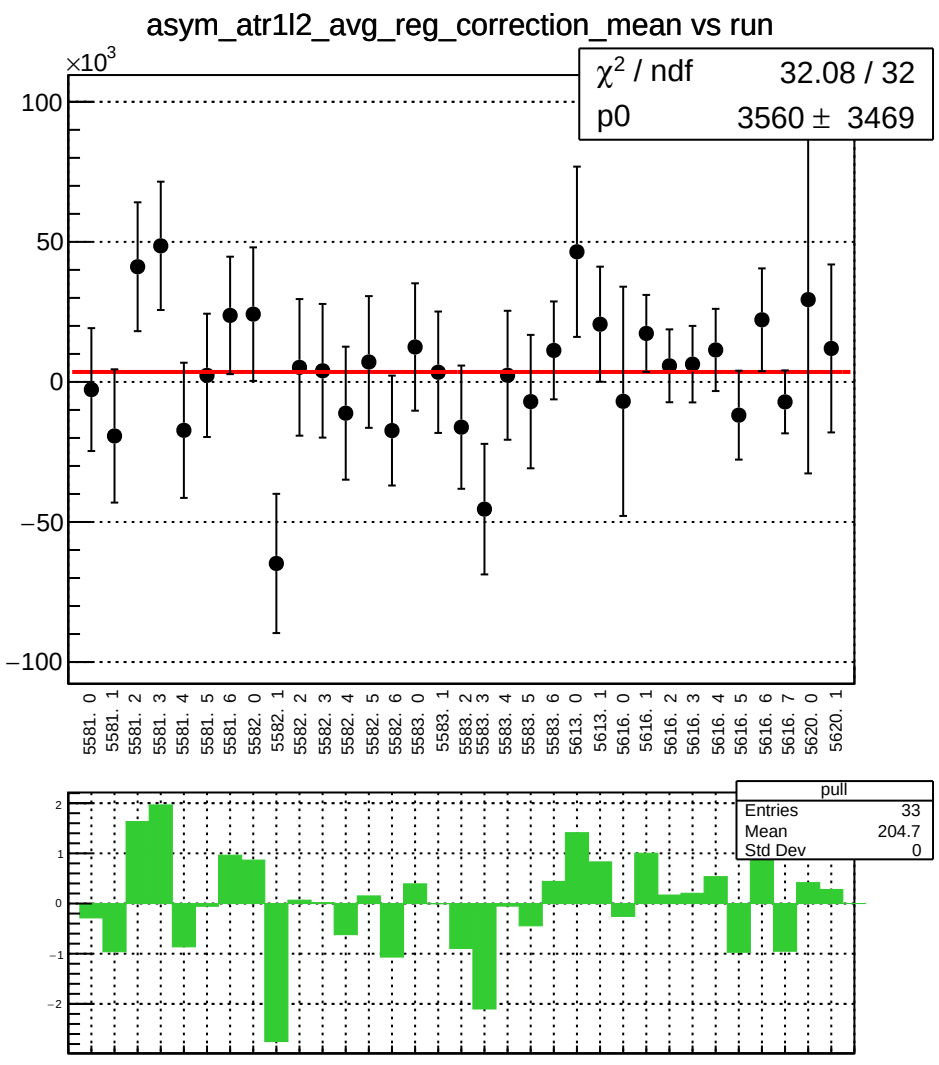

pull1D
Entries 26
Mean 0.05607
Std Dev 0.8595
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

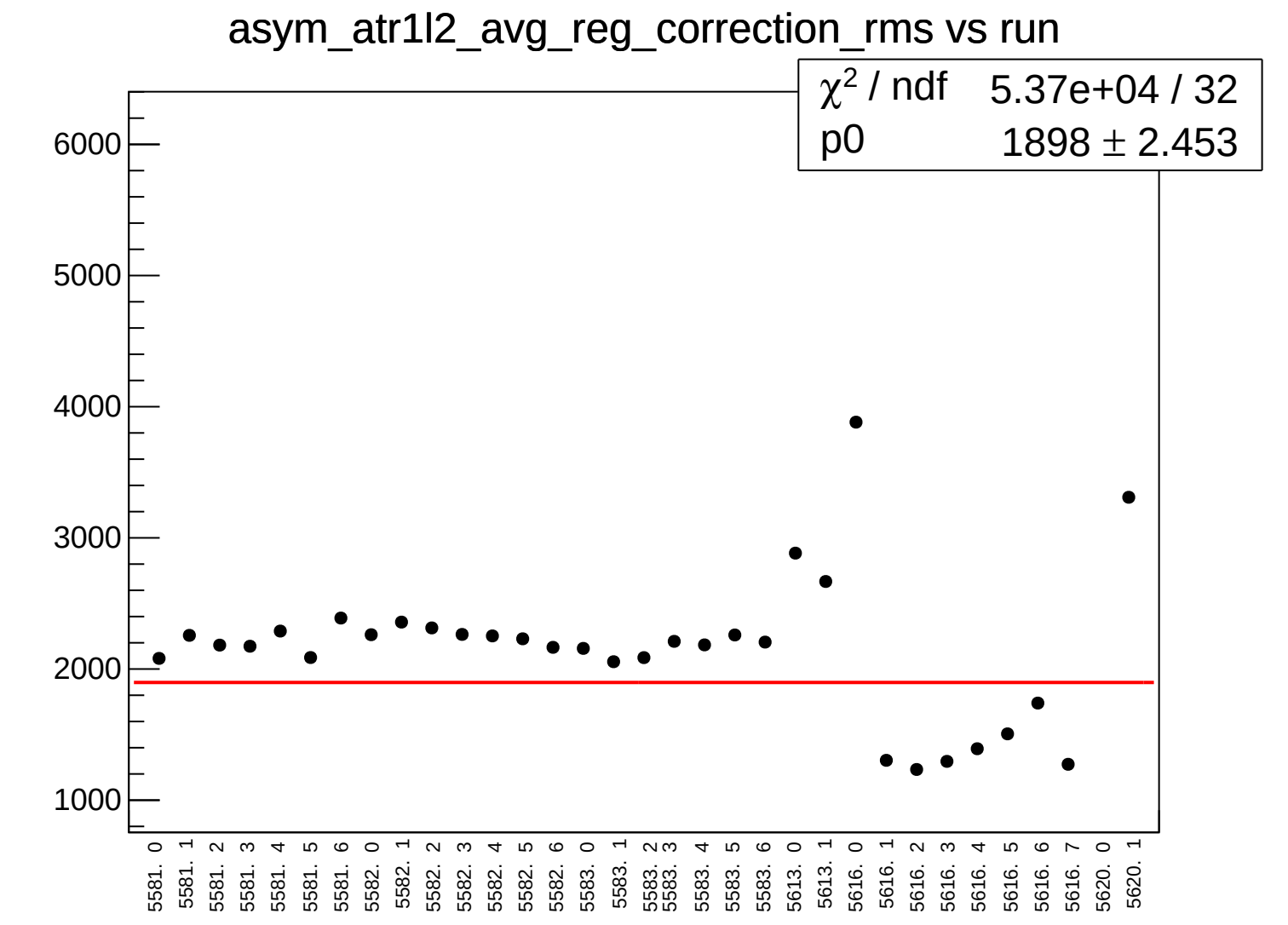

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.546e+05 / 25
p0 6.341e−11 ± 1.052e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

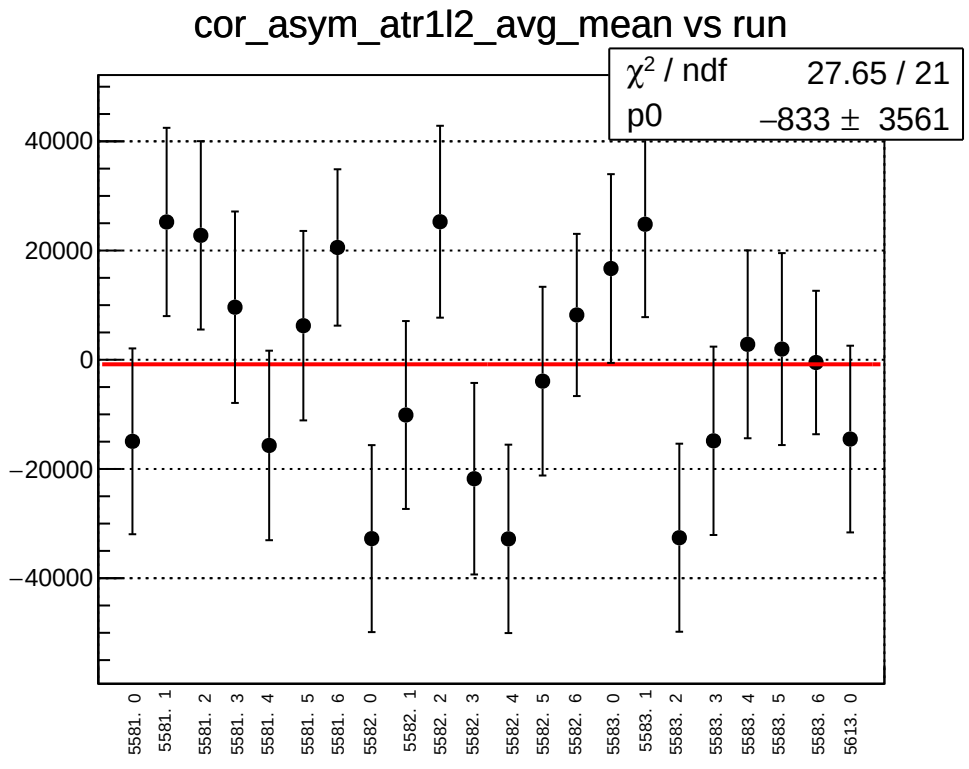

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 27.65 / 21
p0 −833.1± 3561
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 87.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

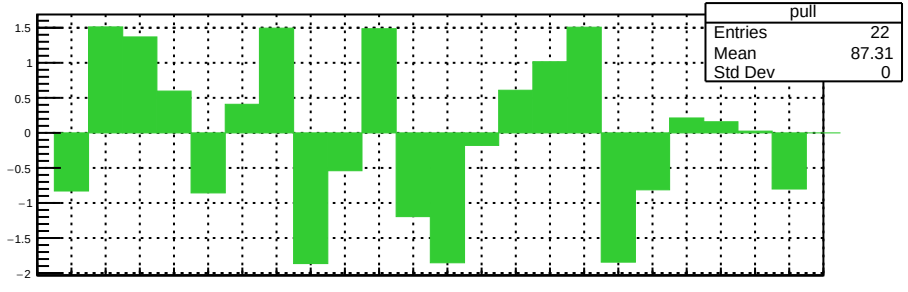

pull1D
Entries 22
Mean −0.01723
Std Dev 1.121
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

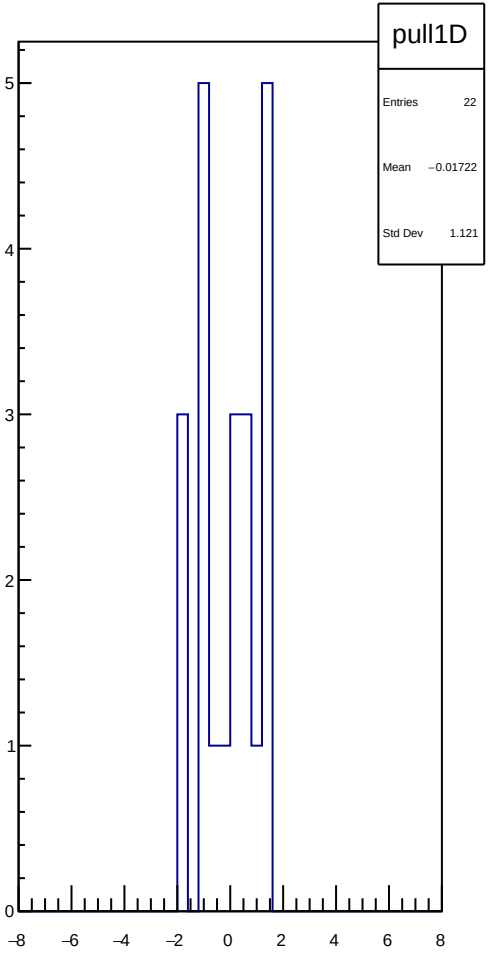

reg_asym_atr1l2_avg_rms vs run
×10^3
χ² / ndf 9.491e+04 / 32
p0 1567 ± 2.1
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

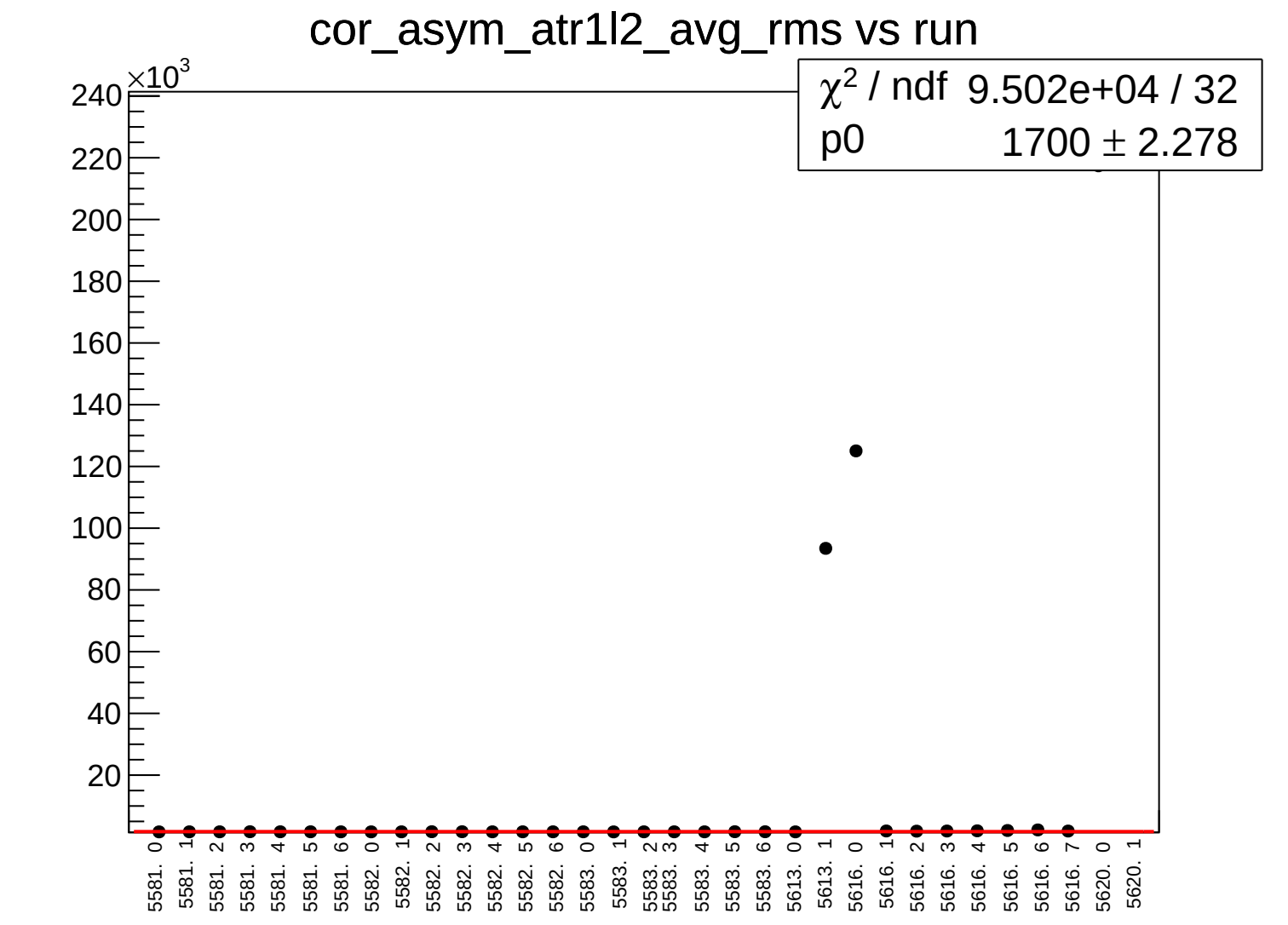

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 32.08 / 32
p0 3560 ± 3469
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 204.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.002473
Std Dev 0.9859
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

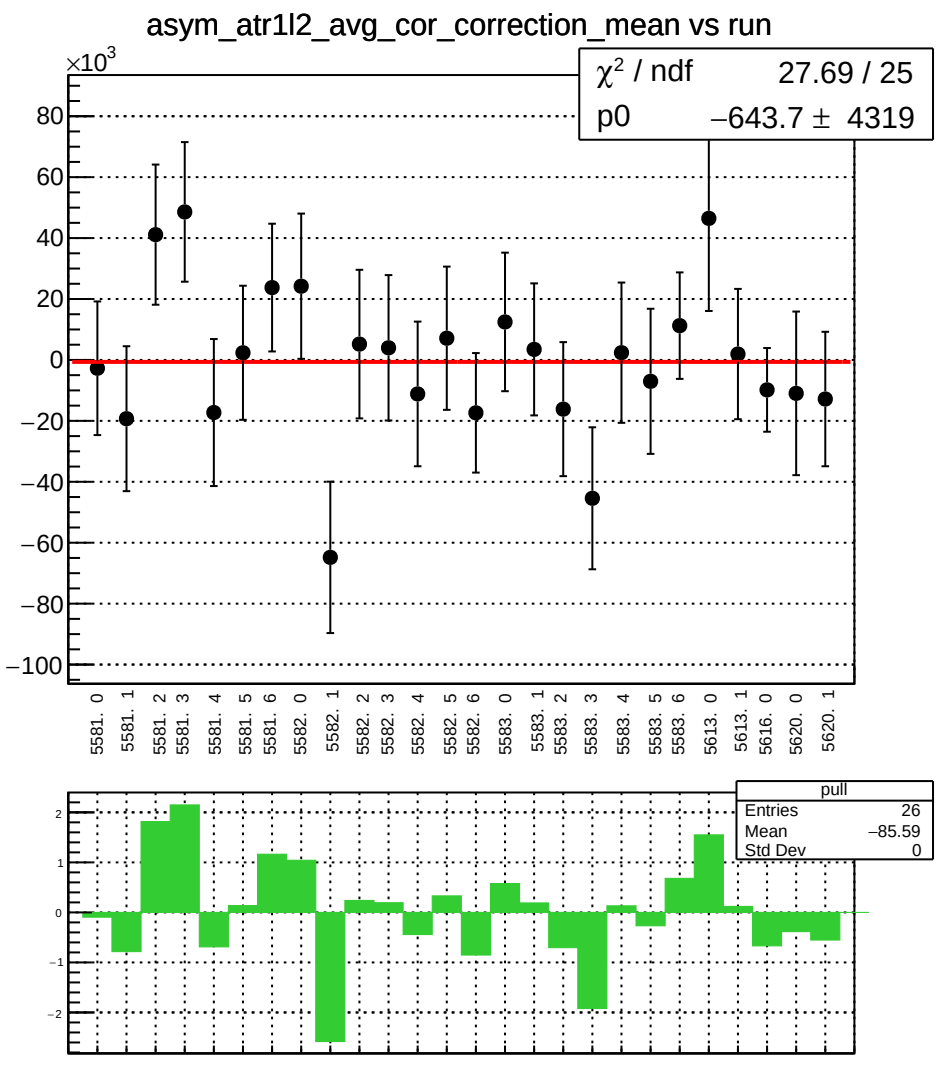

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 5.37e+04 / 32
p0 1898 ± 2.453
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

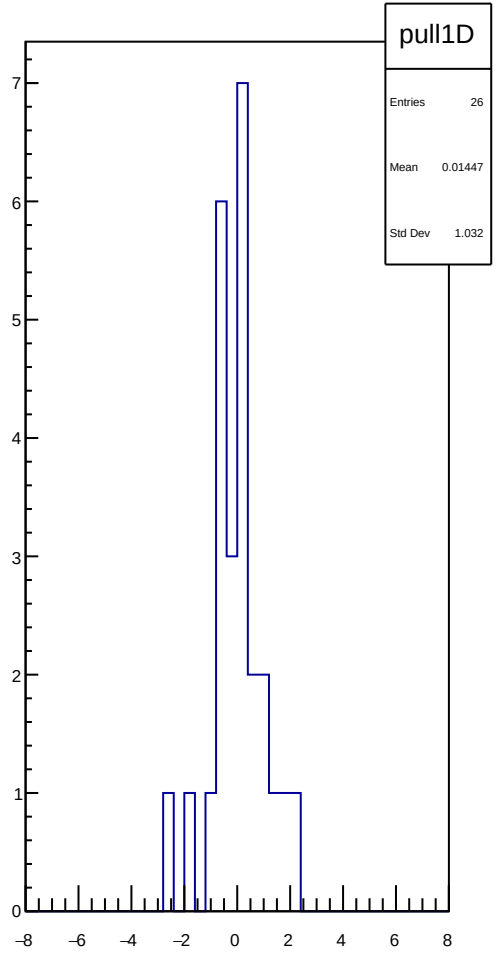

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 27.65 / 21
p0 −833 ± 3561
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

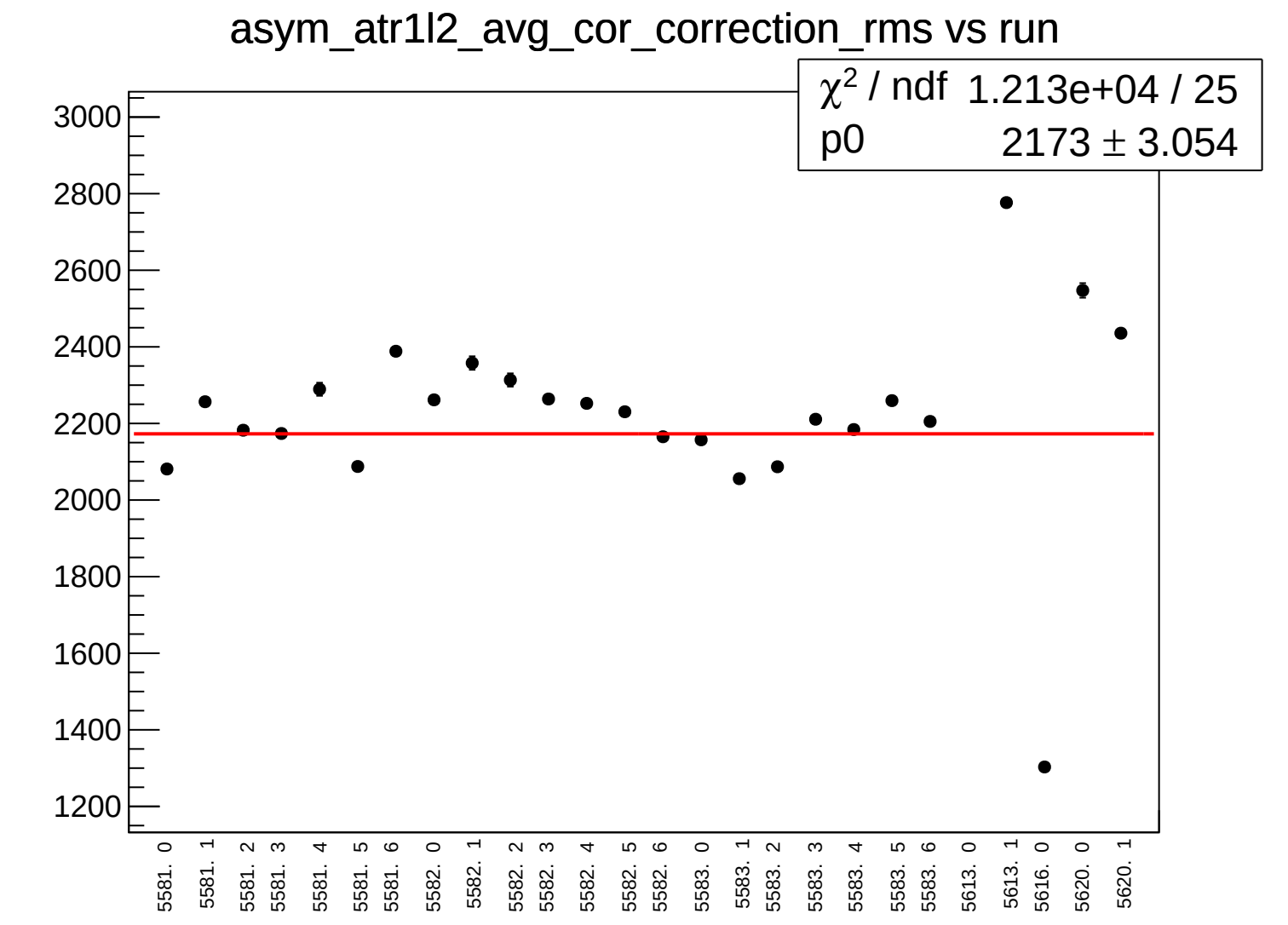

pull
Entries 22
Mean 87.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

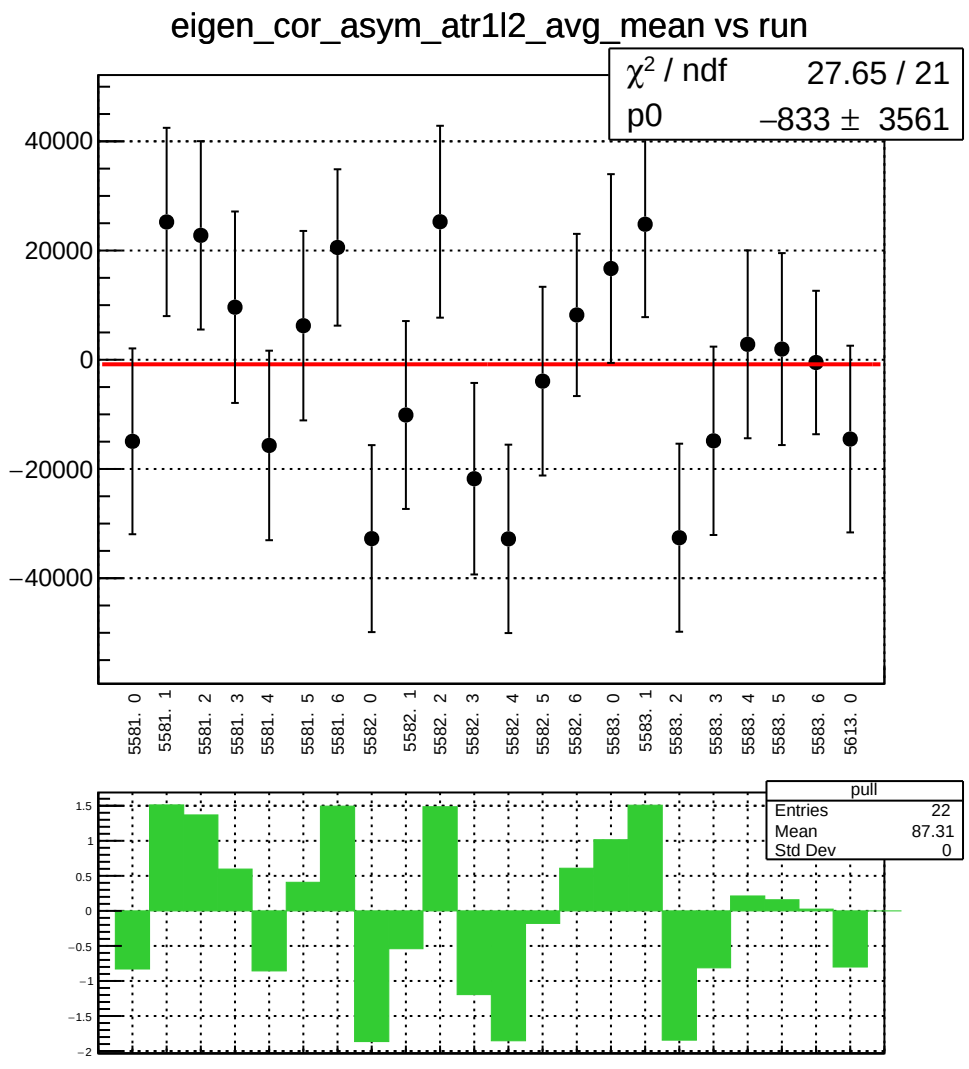

pull1D
Entries 22
Mean −0.01722
Std Dev 1.121
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

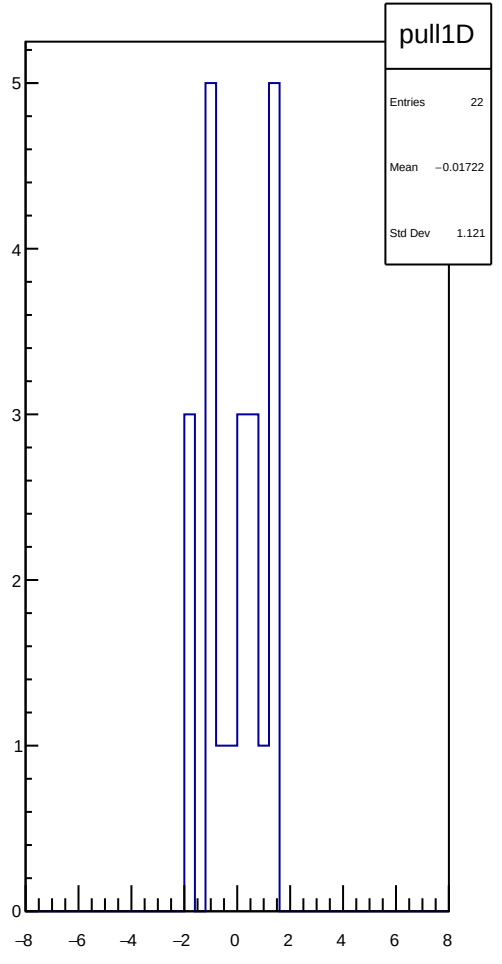

cor_asym_atr1l2_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.502e+04 / 32
p0 1700 ± 2.278
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

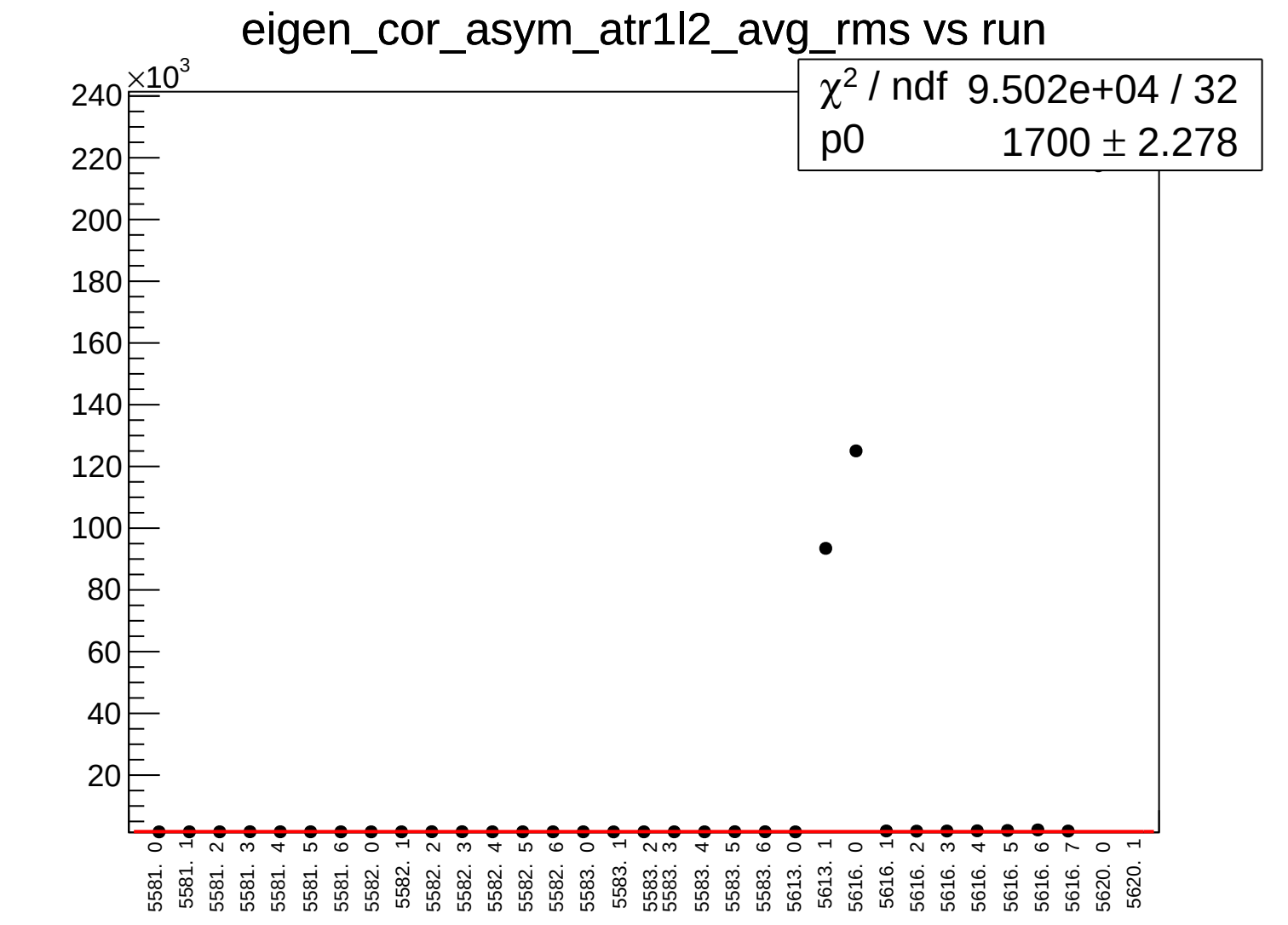

asym_atr1l2_avg_cor_correction_mean vs run
χ² / ndf 27.69 / 25
p0 −643.7 ± 4319
×10³
pull
Entries 26
Mean −85.59
Std Dev 0

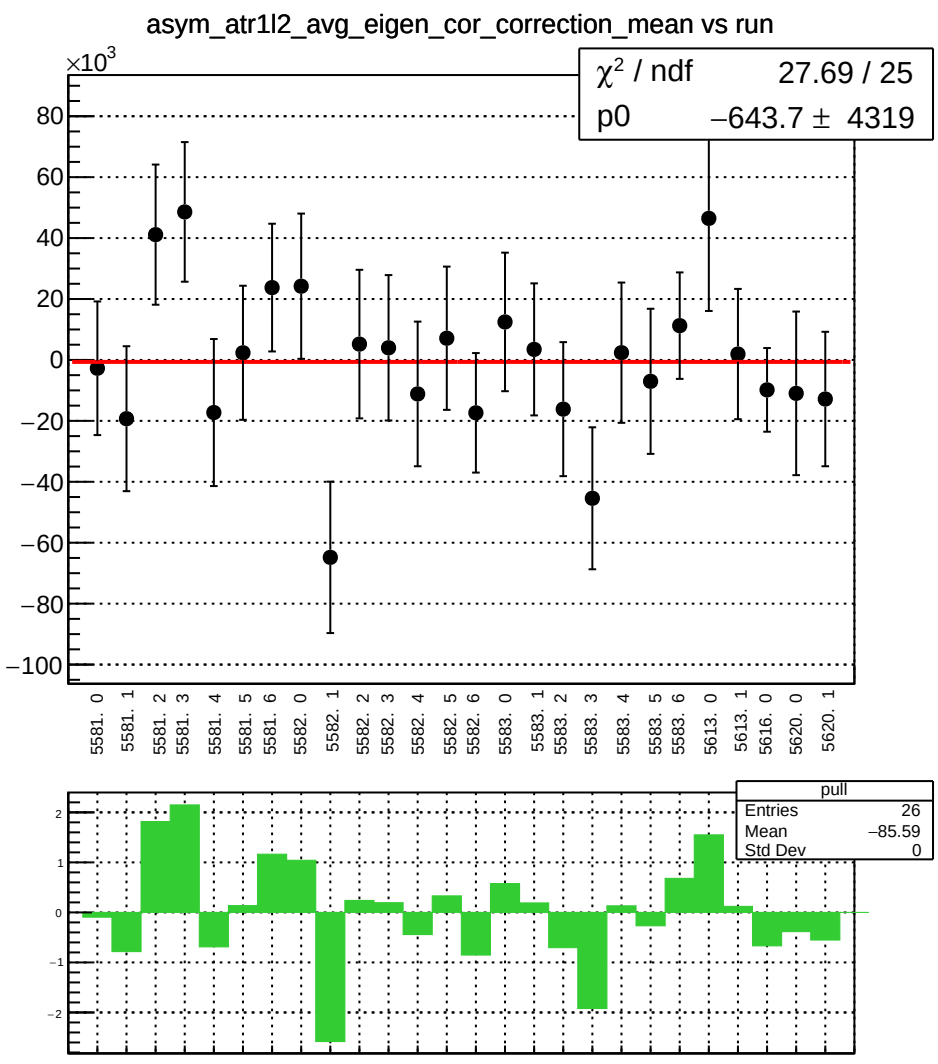

pull1D
Entries 26
Mean 0.01447
Std Dev 1.032

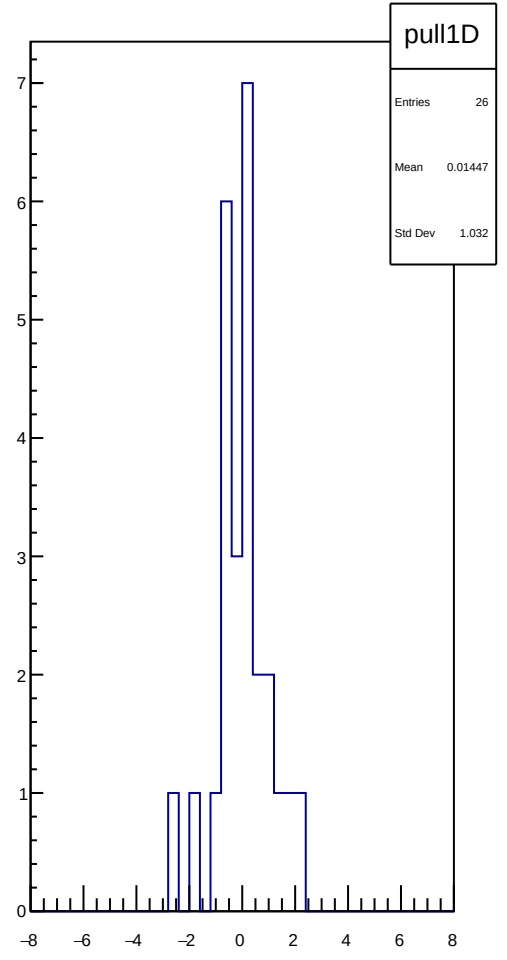

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1.213e+04 / 25
p0 2173 ± 3.054
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

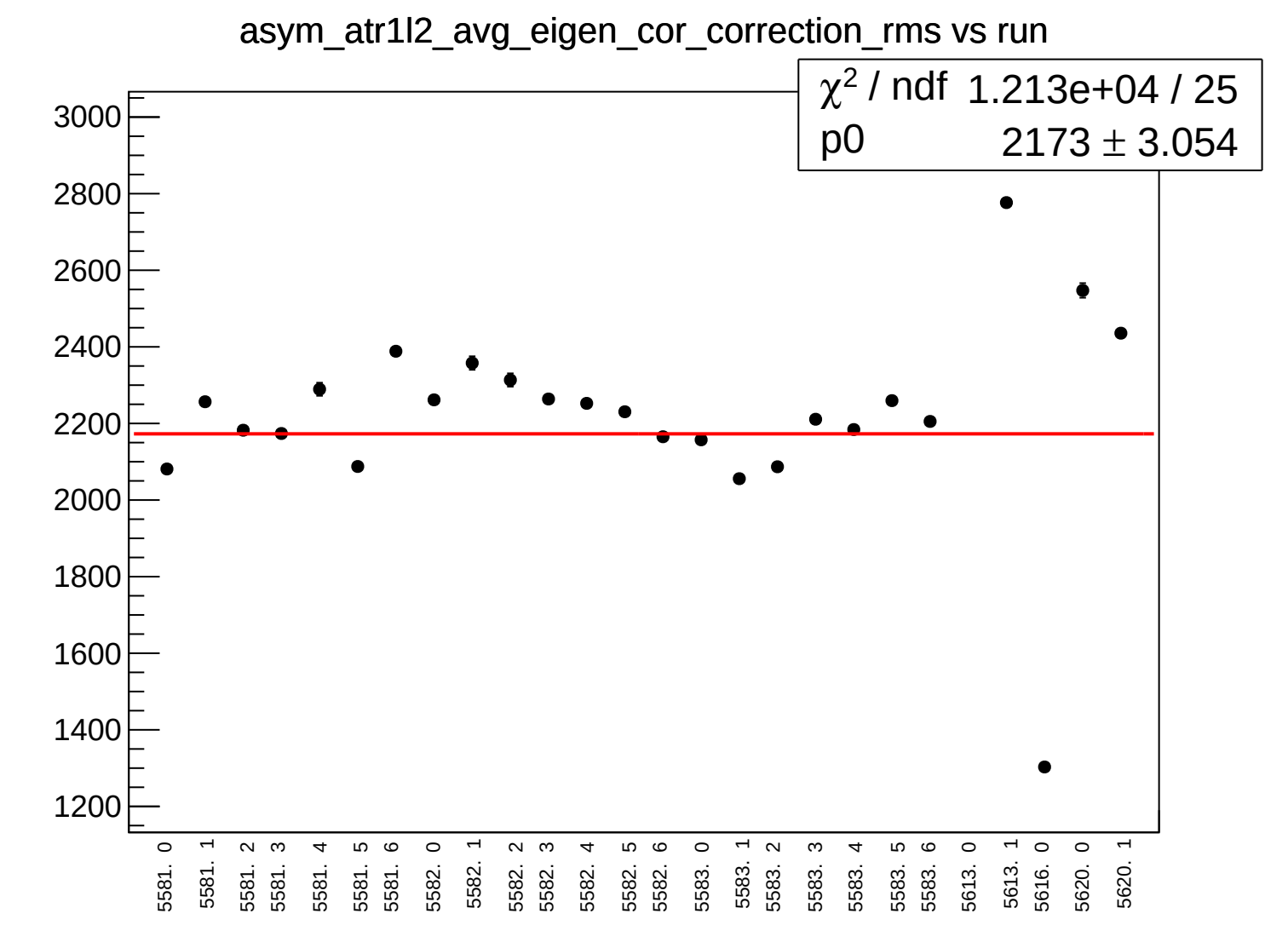

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 27.65 / 21
p0 −833 ± 3561
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 87.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

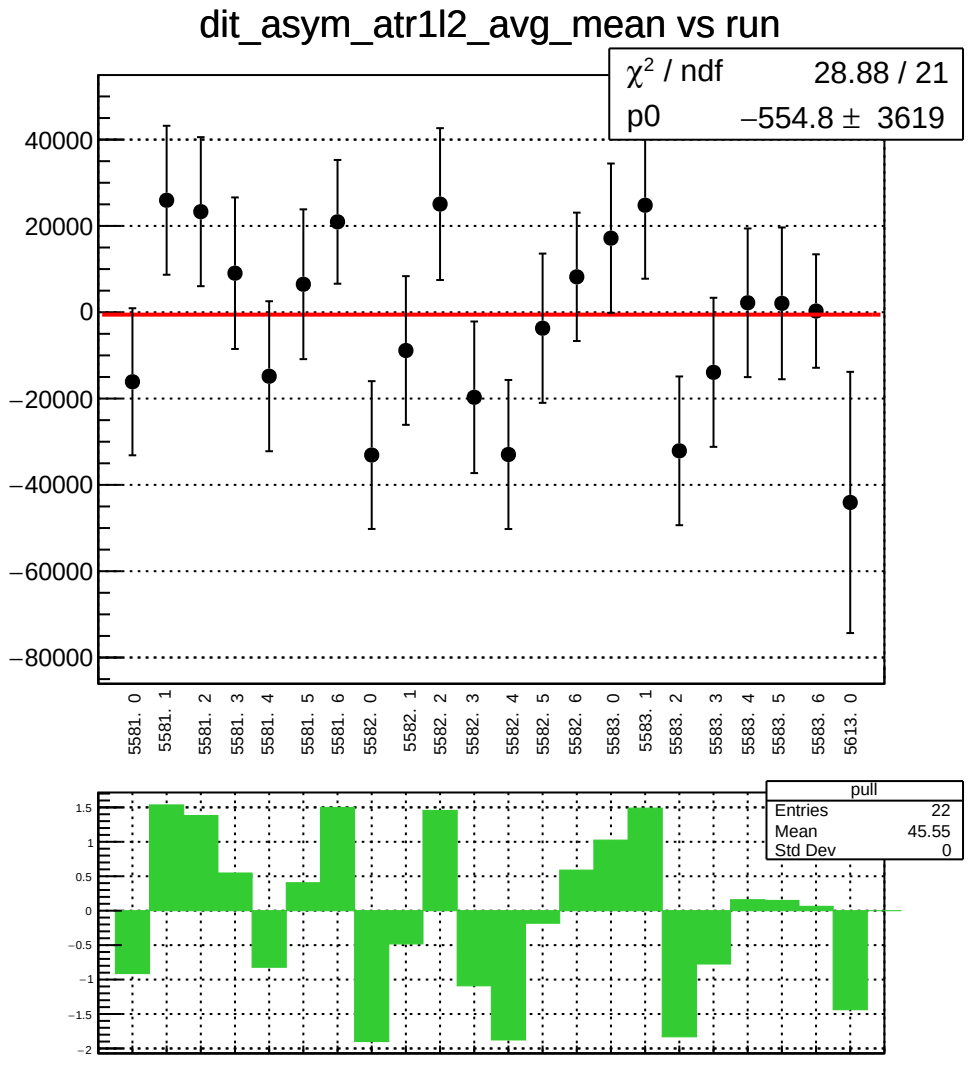

pull1D
Entries 22
Mean −0.01722
Std Dev 1.121
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

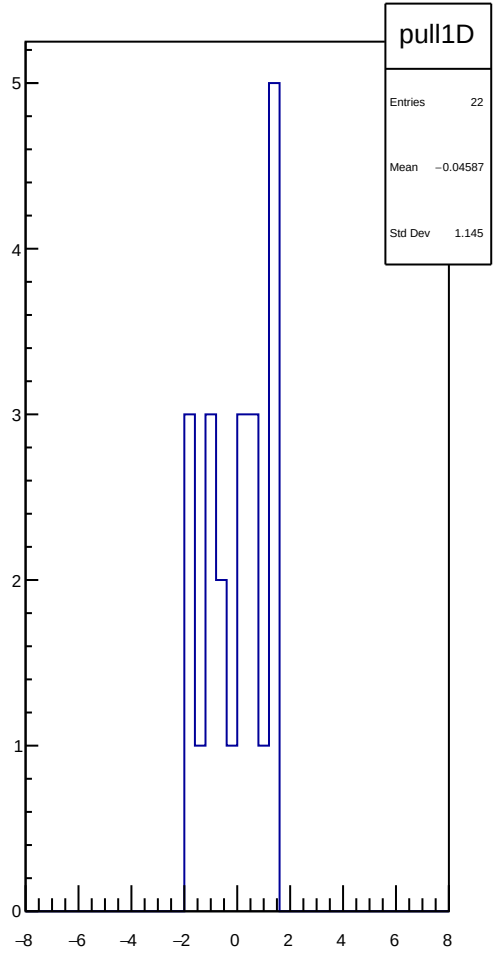

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 9.502e+04 / 32
p0 1700 ± 2.278
×10³
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

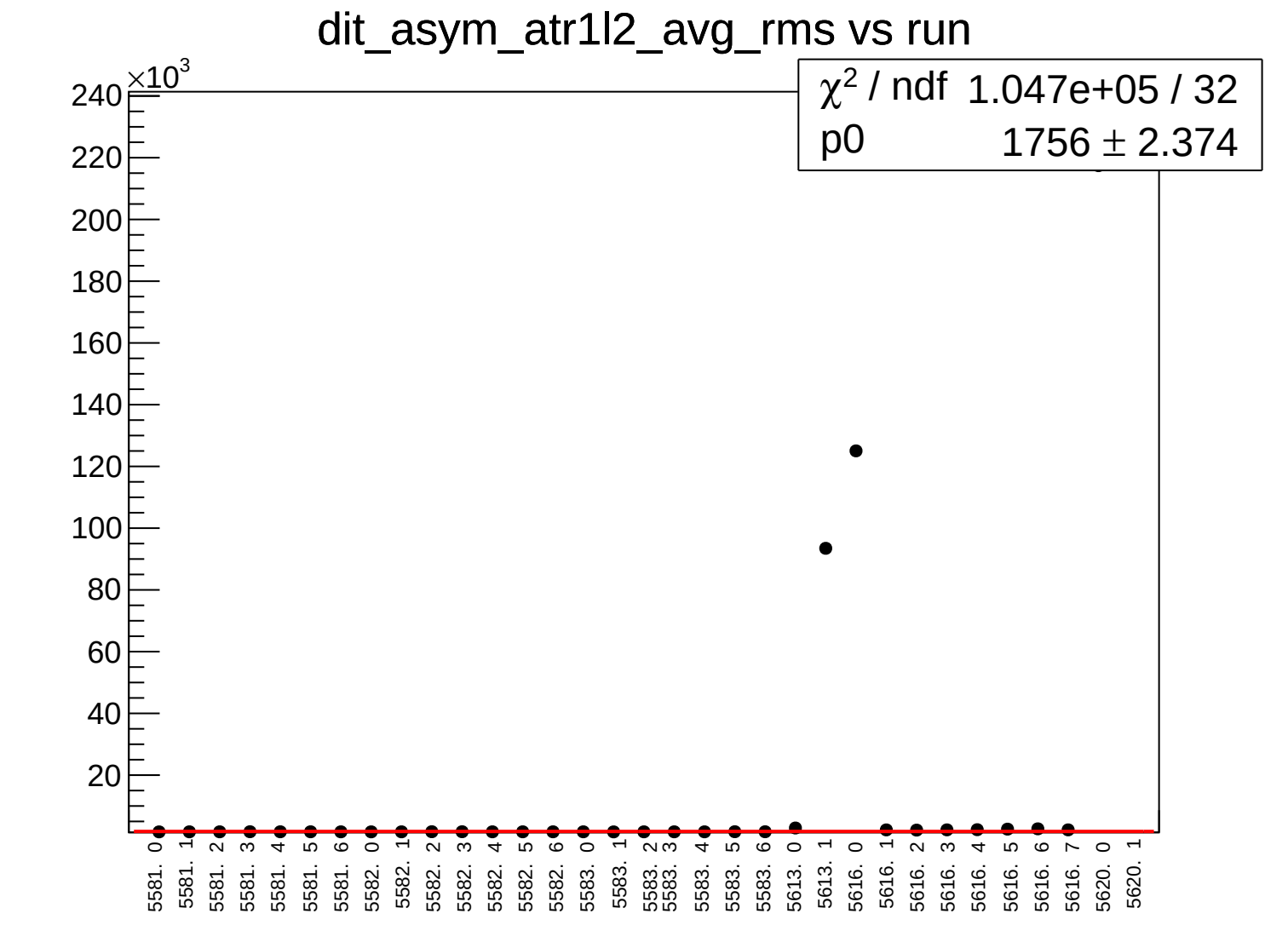

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 27.69 / 25
p0 −643.7 ± 4319
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −85.59
Std Dev 0
2
1
0
−1
−2

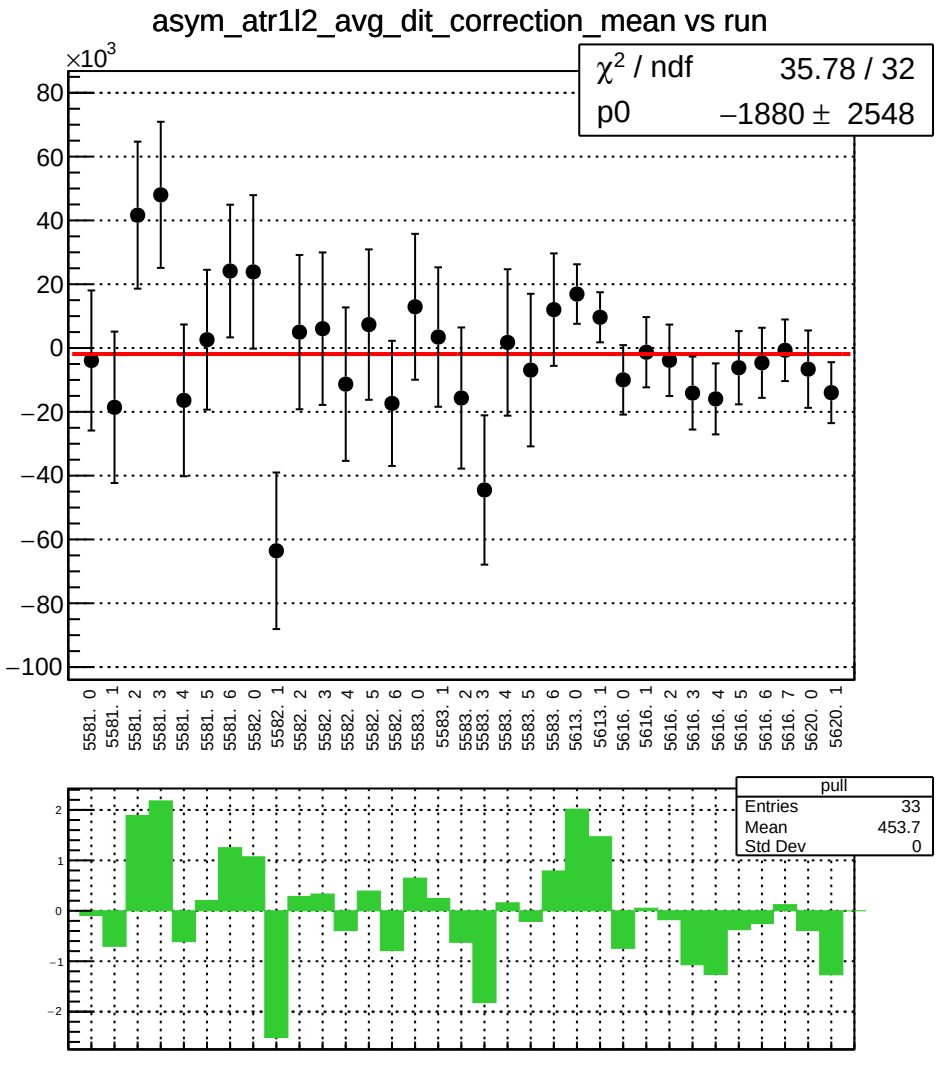

pull1D
Entries 26
Mean 0.01447
Std Dev 1.032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

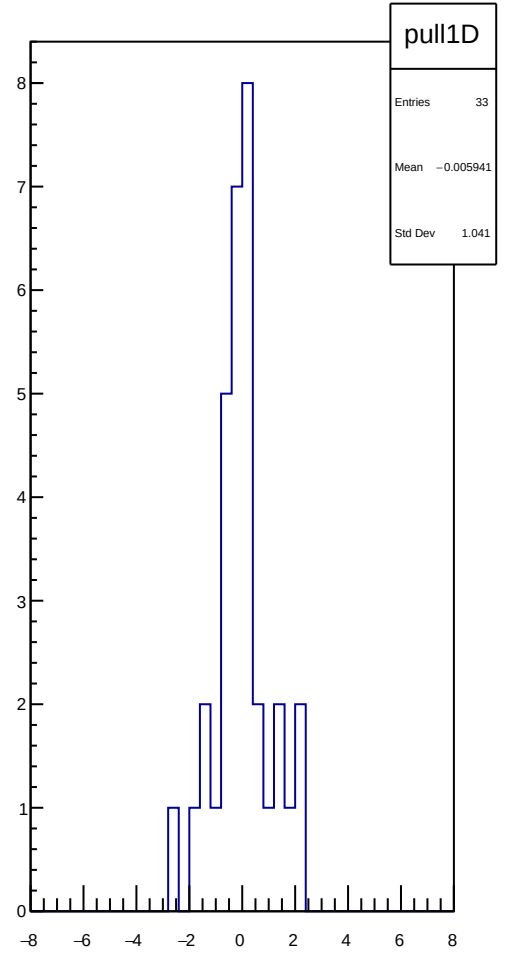

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.213e+04 / 25
p0 2173 ± 3.054
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

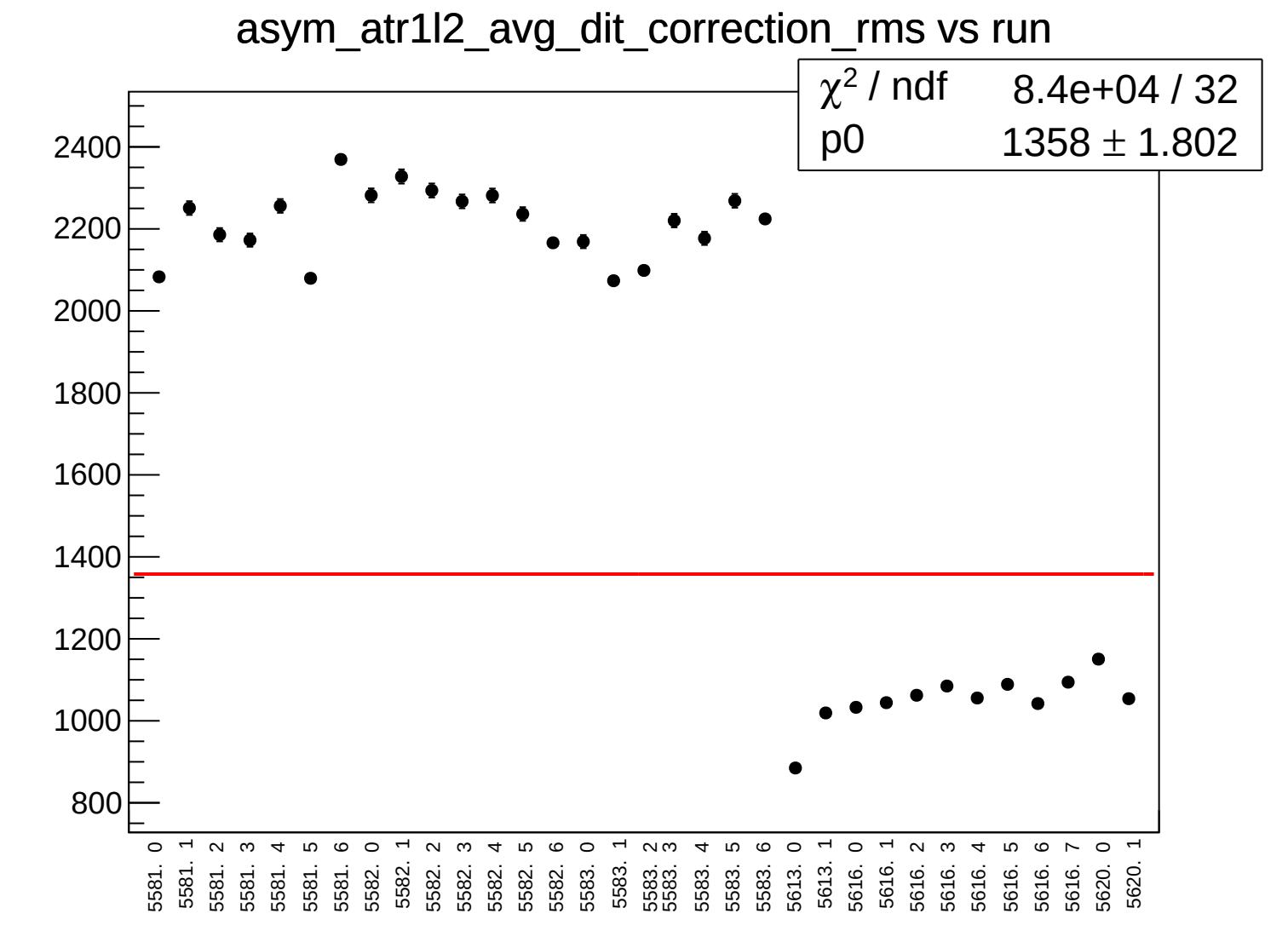

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 28.88 / 21
p0 −554.8 ± 3619
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 45.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

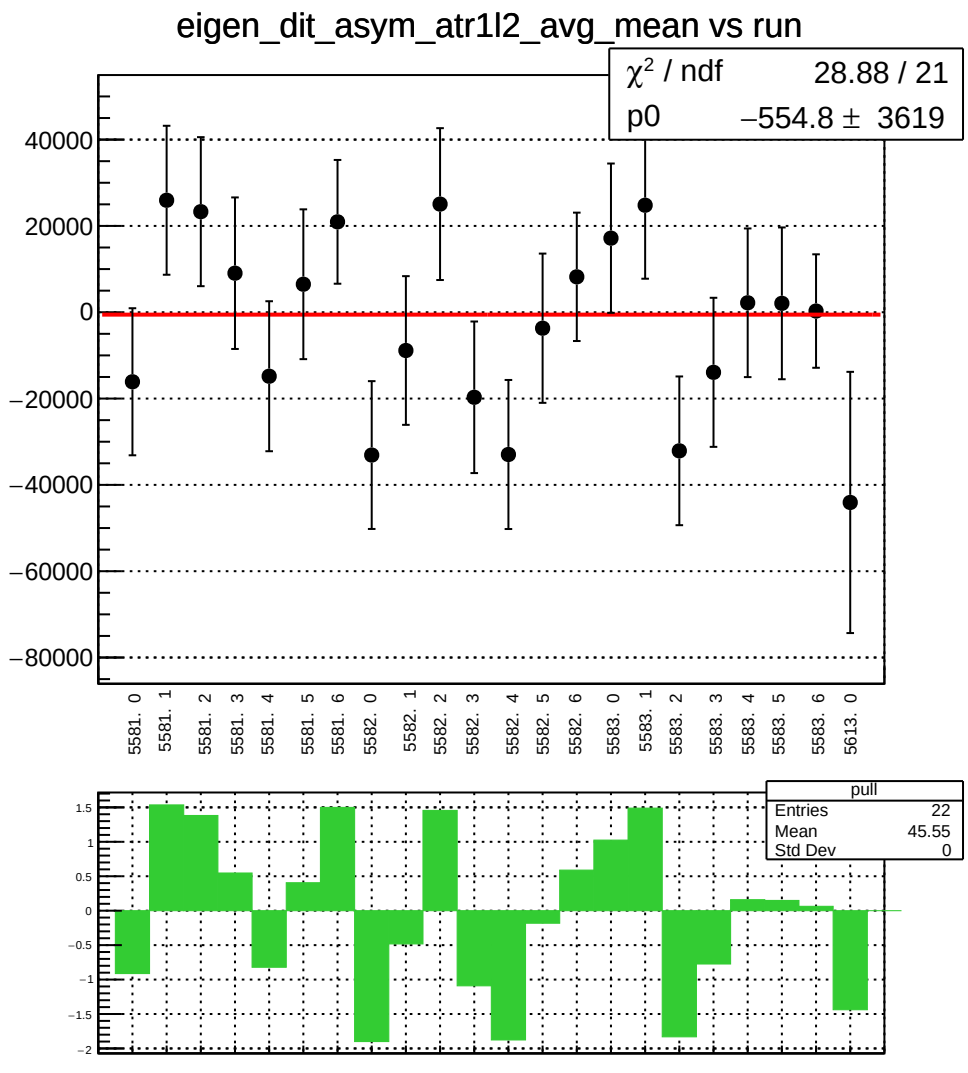

pull1D
Entries 22
Mean −0.04587
Std Dev 1.145
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

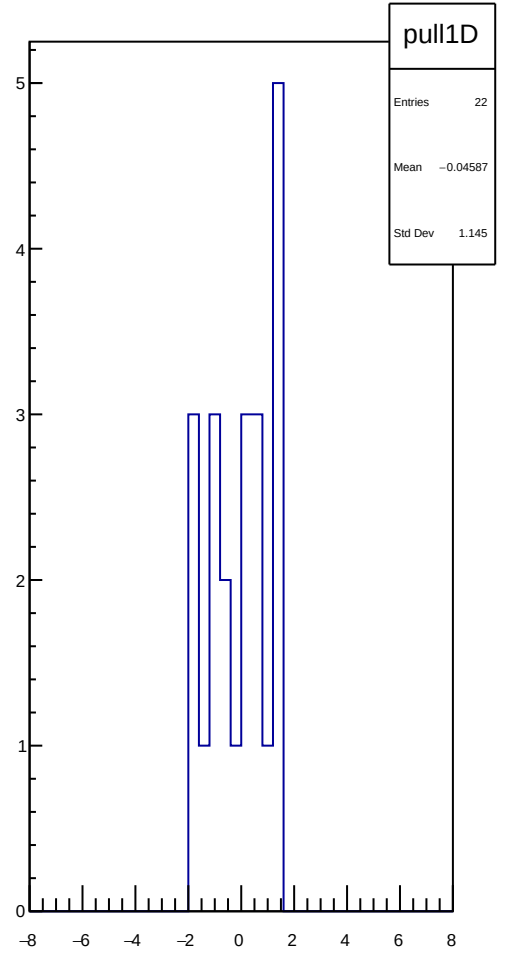

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 1.047e+05 / 32
p0 1756 ± 2.374
×10³
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

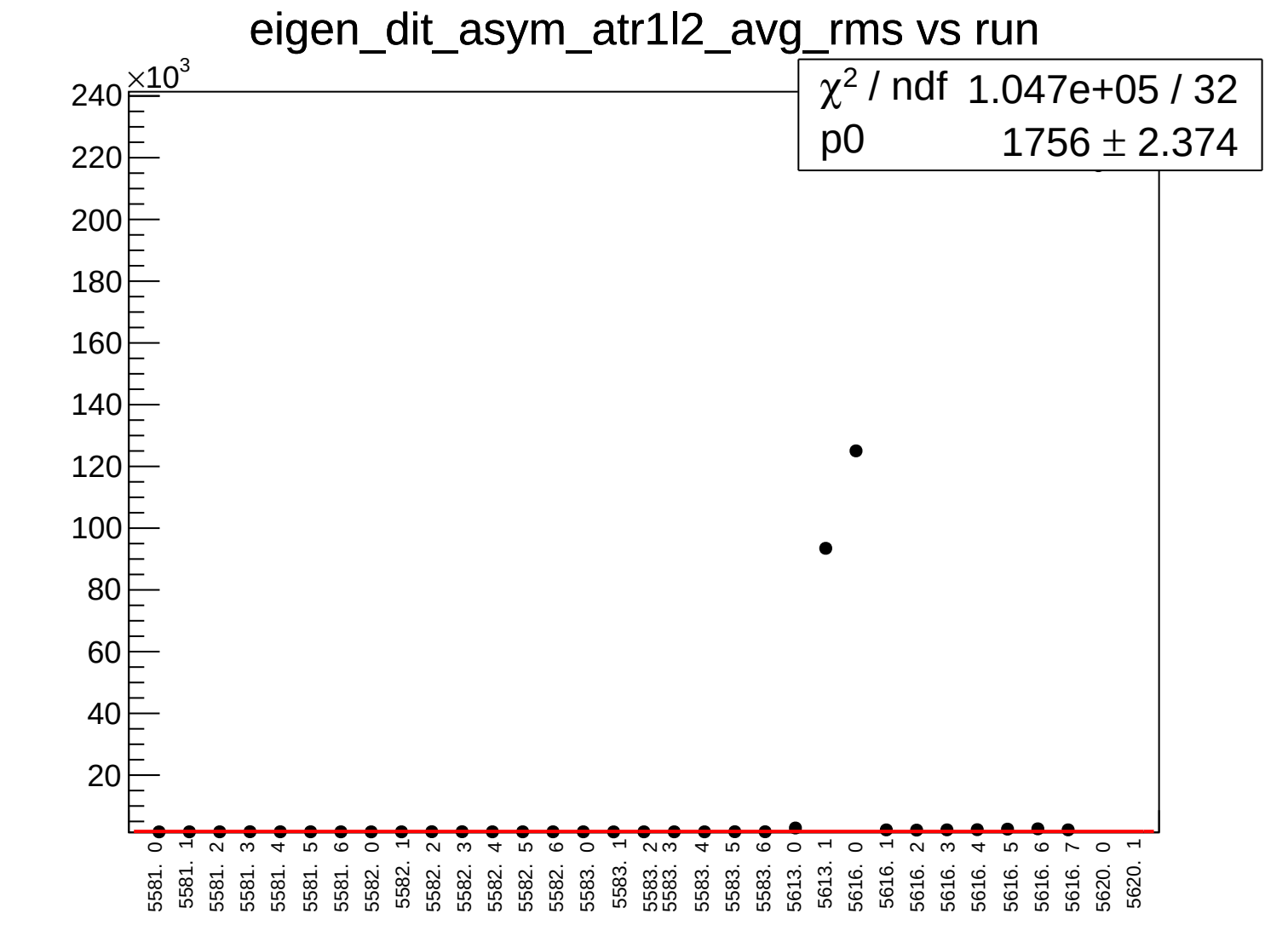

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 35.78 / 32
p0 −1880 ± 2548
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 453.7
Std Dev 0
2
1
0
−1
−2

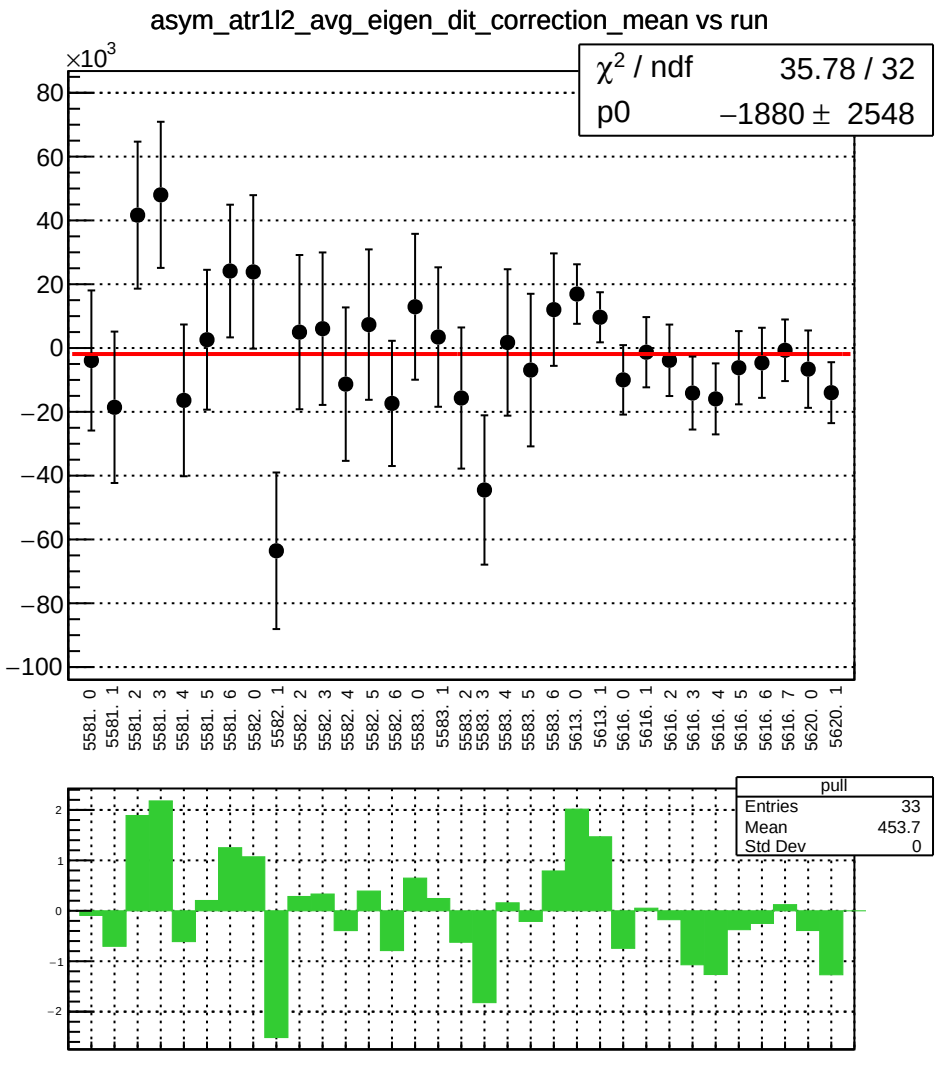

pull1D
Entries 33
Mean −0.005941
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

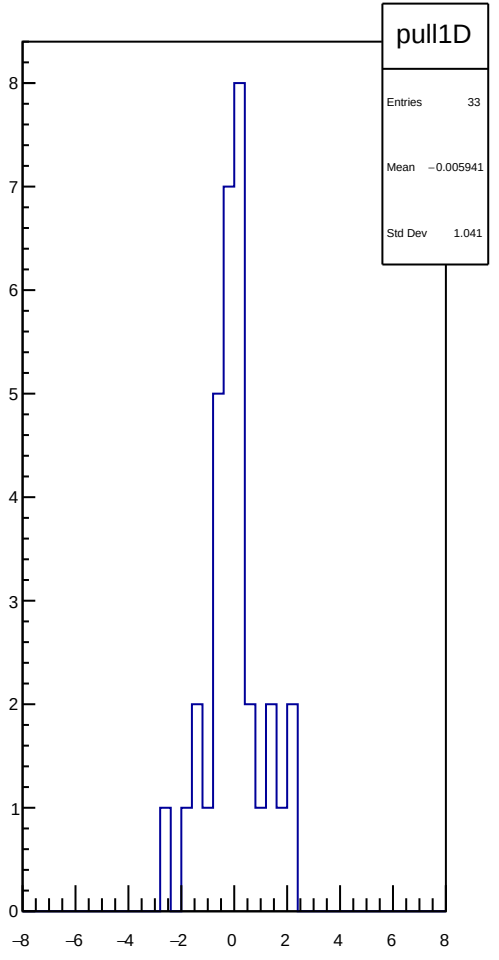

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 8.4e+04 / 32
p0 1358 ± 1.802
2400
2200
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

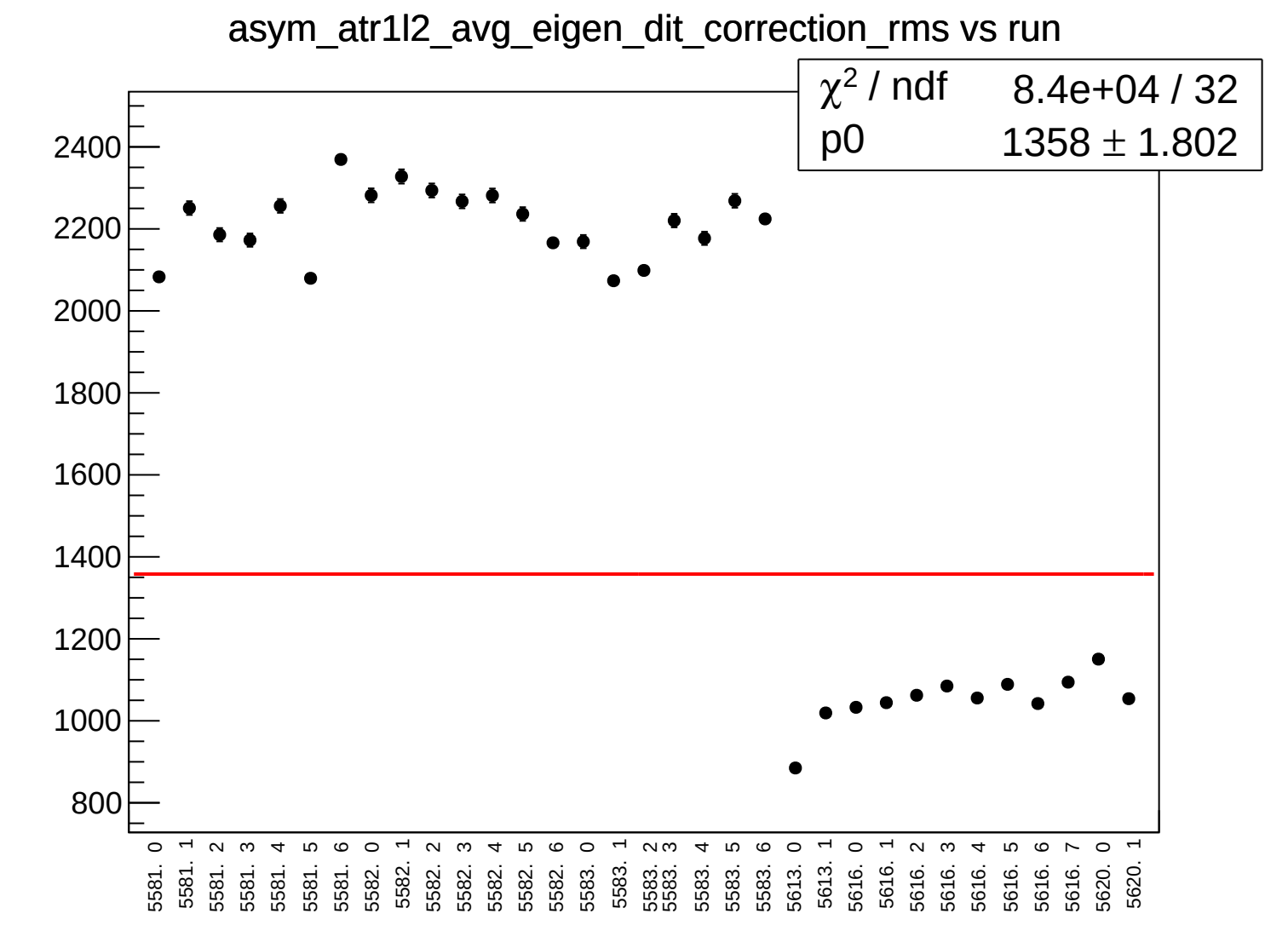

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 28.88 / 21
p0 −554.8 ± 3619
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 45.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

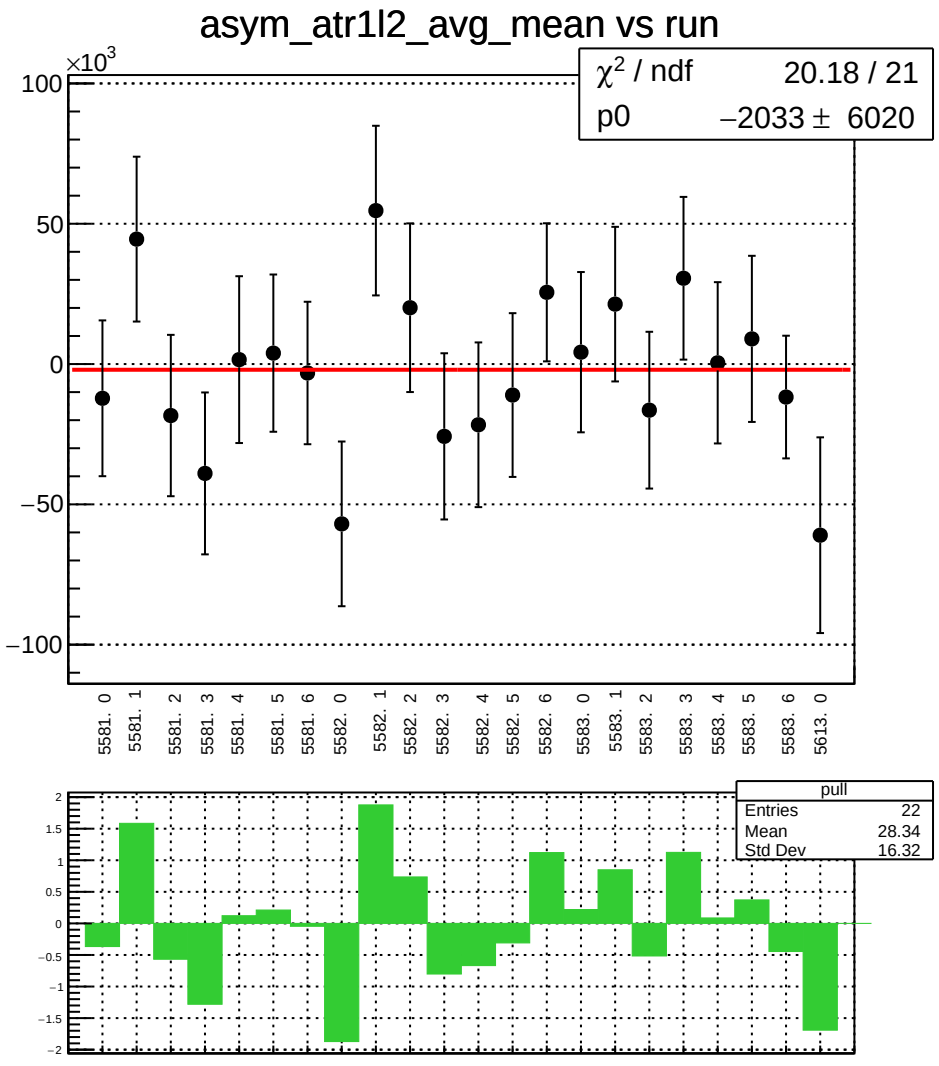

pull1D
Entries 22
Mean −0.04587
Std Dev 1.145
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

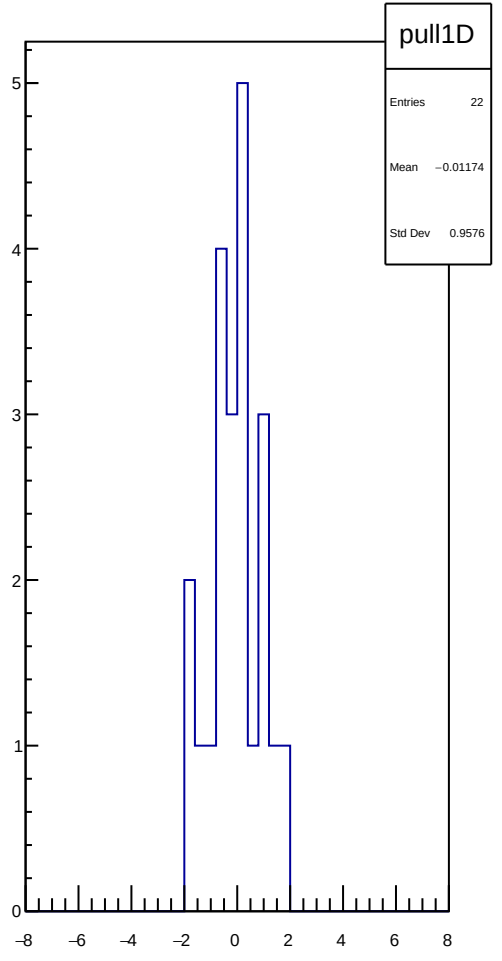

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 1.047e+05 / 32
p0 1756 ± 2.374
×10³
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

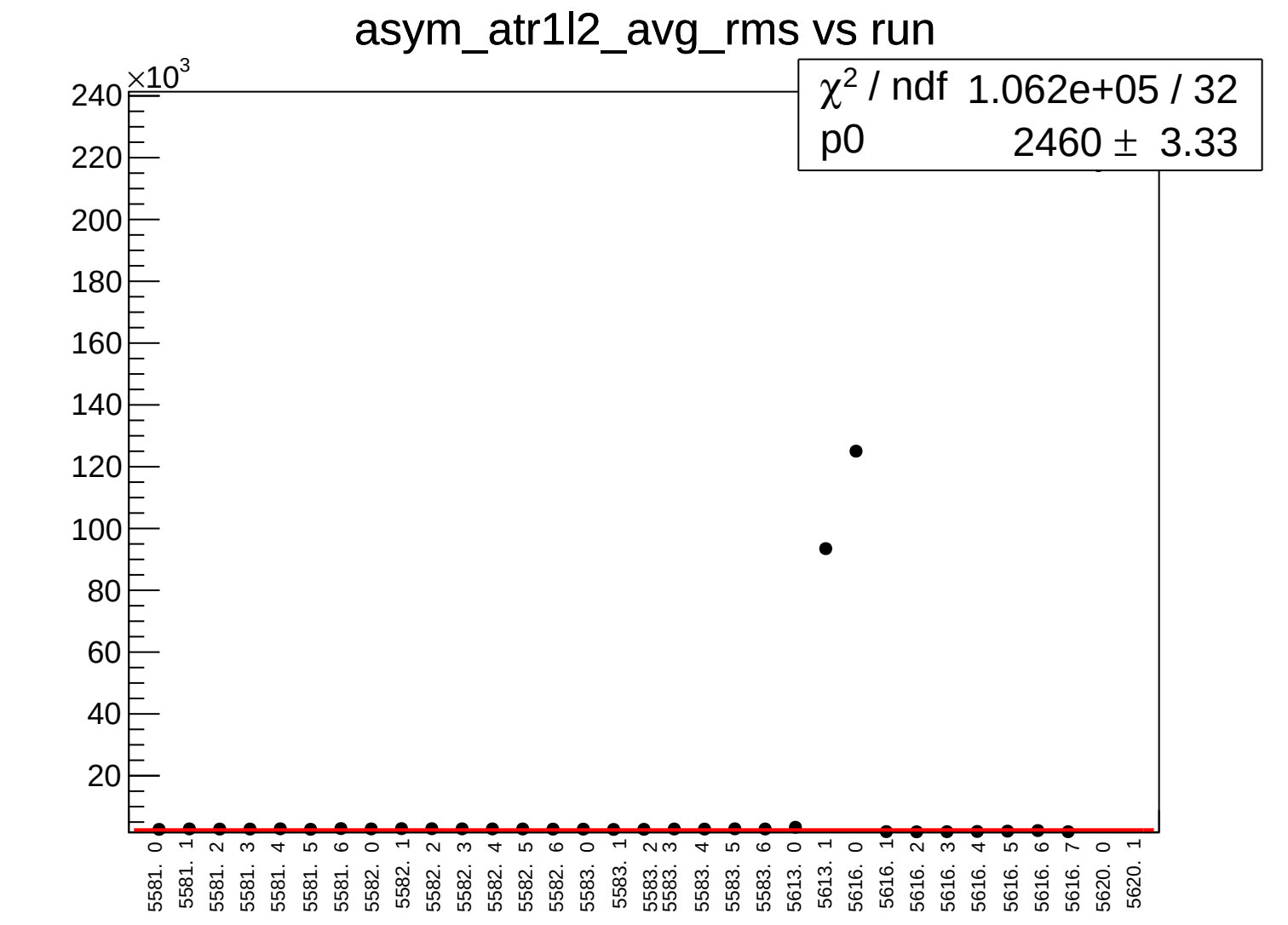

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 35.78 / 32
p0 −1880 ± 2548
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 453.7
Std Dev 0
2
1
0
−1
−2

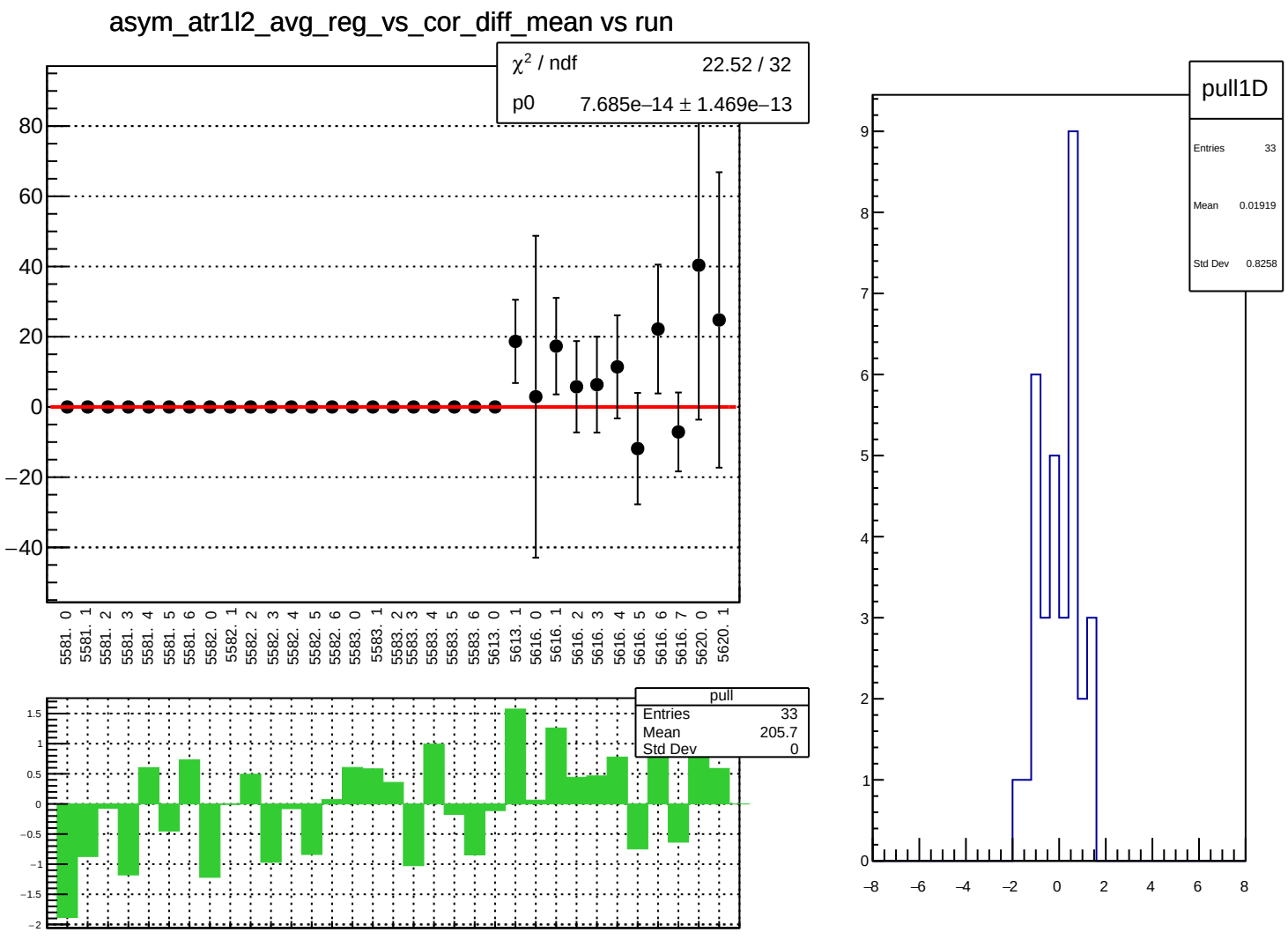

pull1D
Entries 33
Mean −0.005941
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

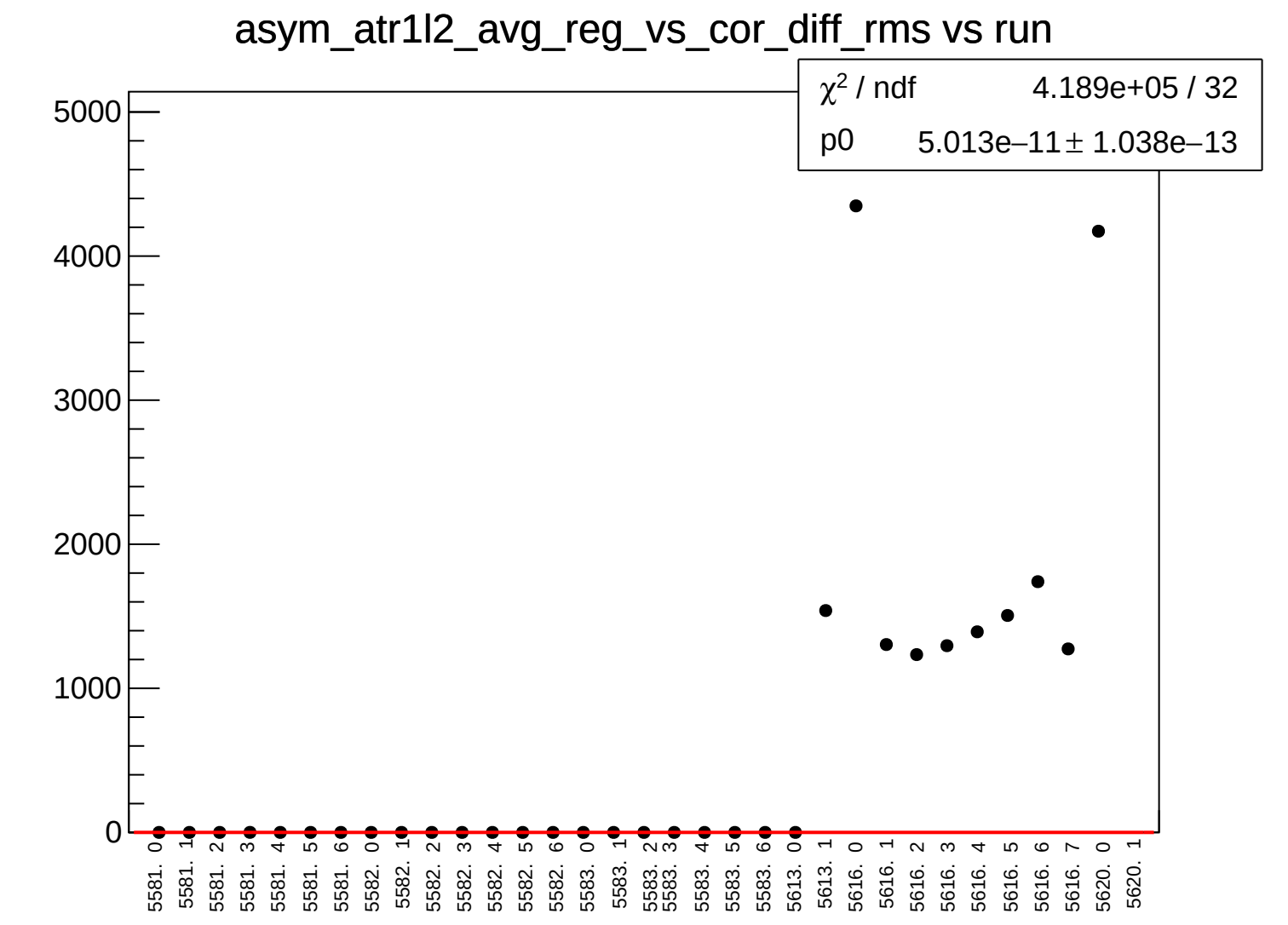

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8.4e+04 / 32
p0 1358 ± 1.802
2400
2200
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

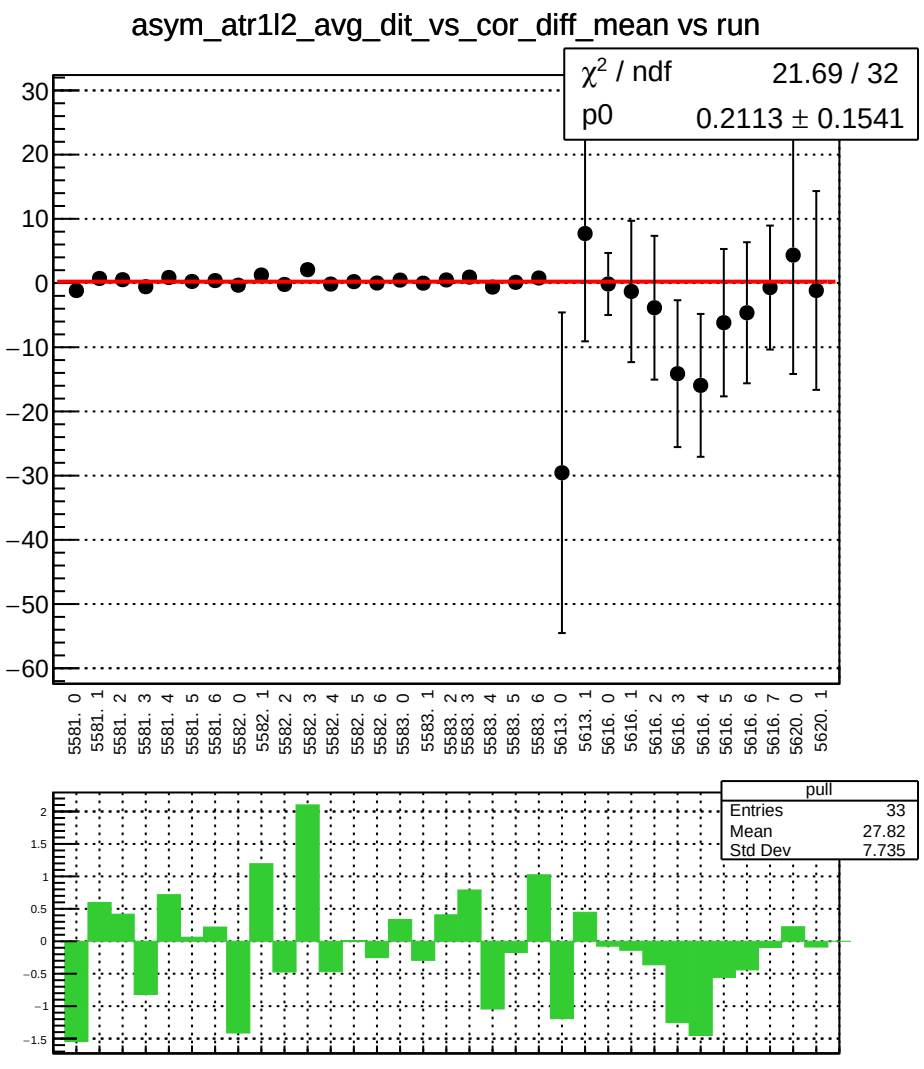

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 20.18 / 21
p0 −2033 ± 6020
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 28.34
Std Dev 16.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

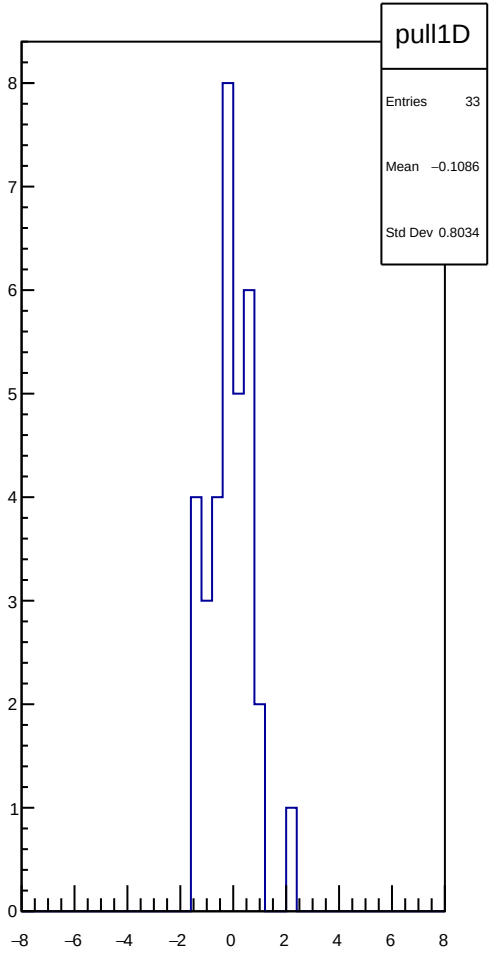

pull1D
Entries 22
Mean −0.01174
Std Dev 0.9576
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

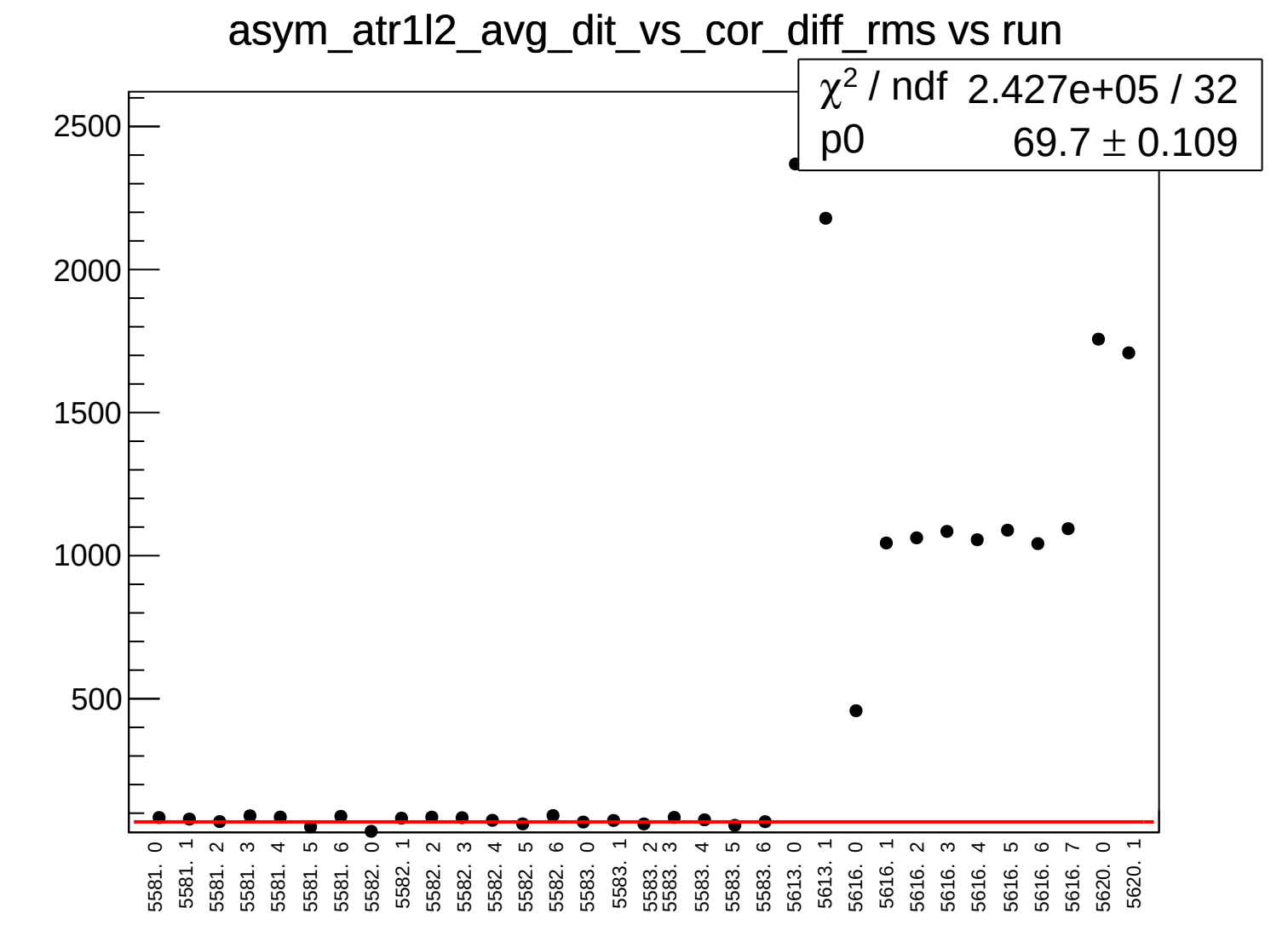

asym_atr1l2_avg_rms vs run
χ² / ndf 1.062e+05 / 32
p0 2460 ± 3.33
×10³
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

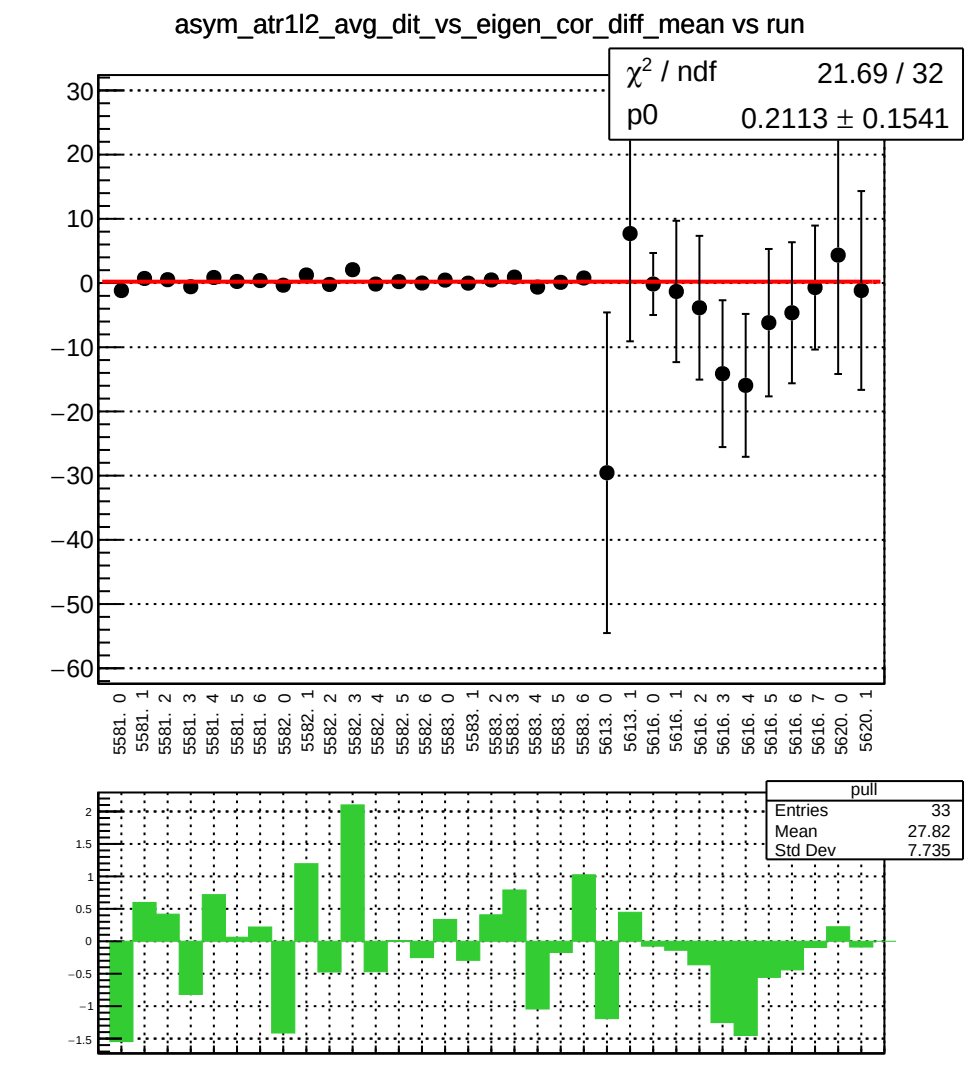

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 22.52 / 32
p0 7.685e−14 ± 1.469e−13
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 205.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.01919
Std Dev 0.8258
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

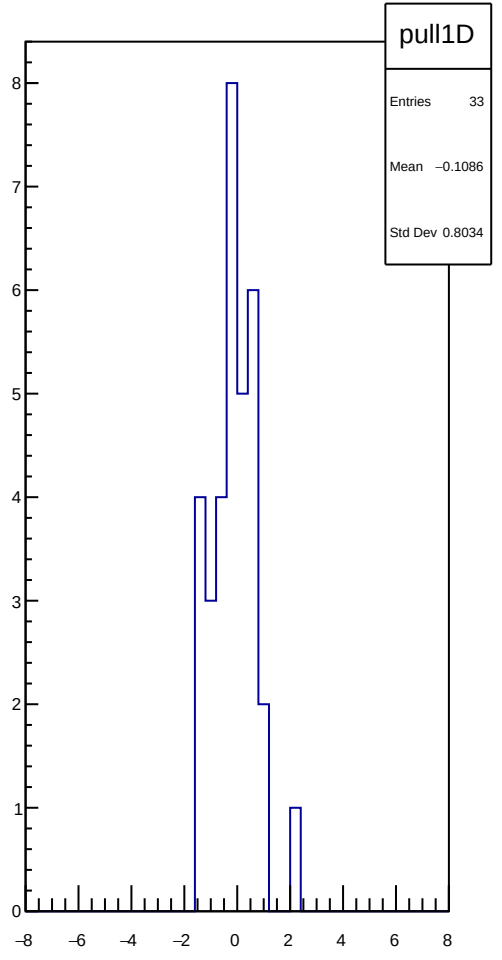

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.189e+05 / 32
p0 5.013e−11 ± 1.038e−13
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

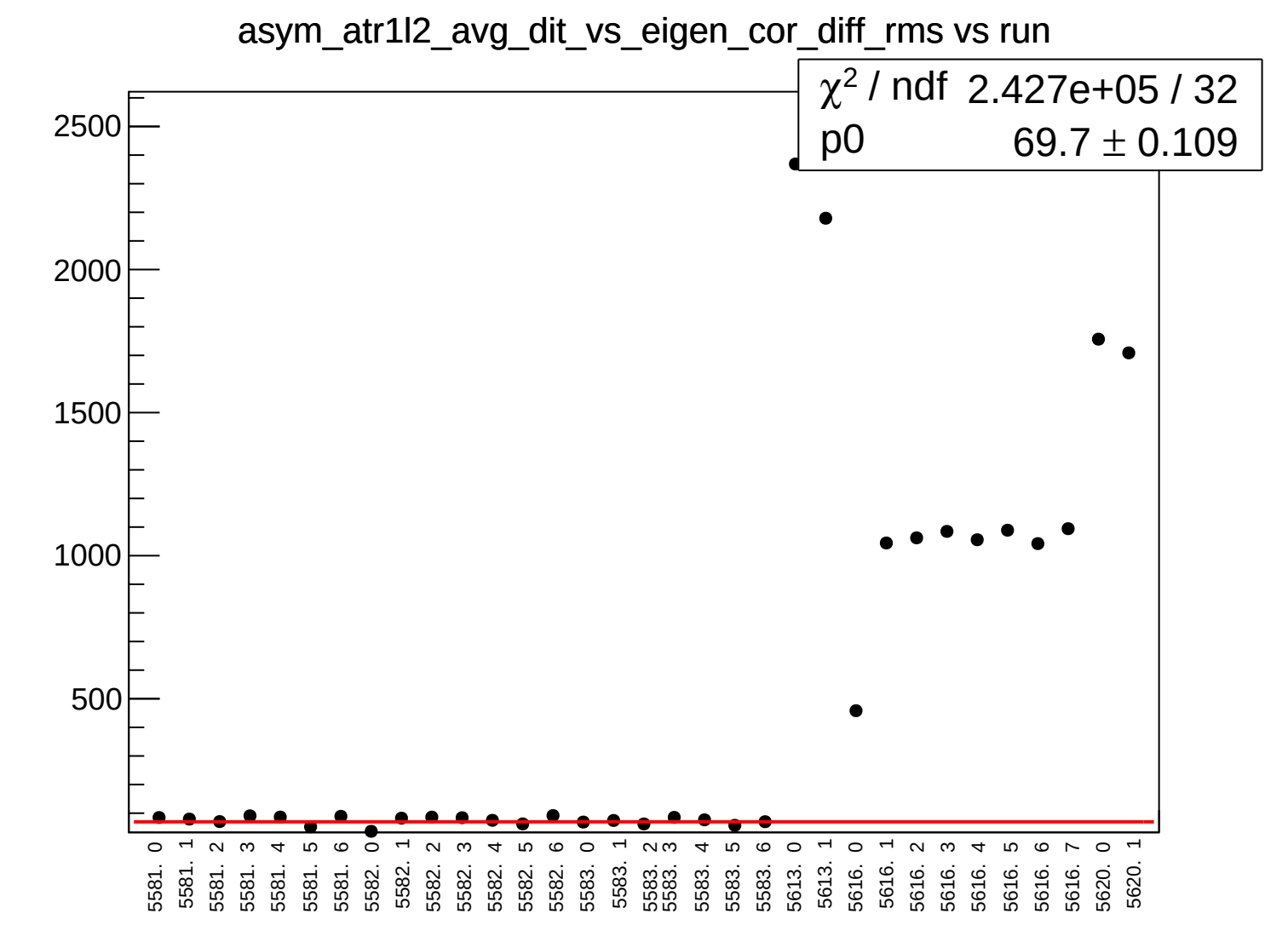

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 21.69 / 32
p0 0.2113 ± 0.1541
pull
Entries 33
Mean 27.82
Std Dev 7.735

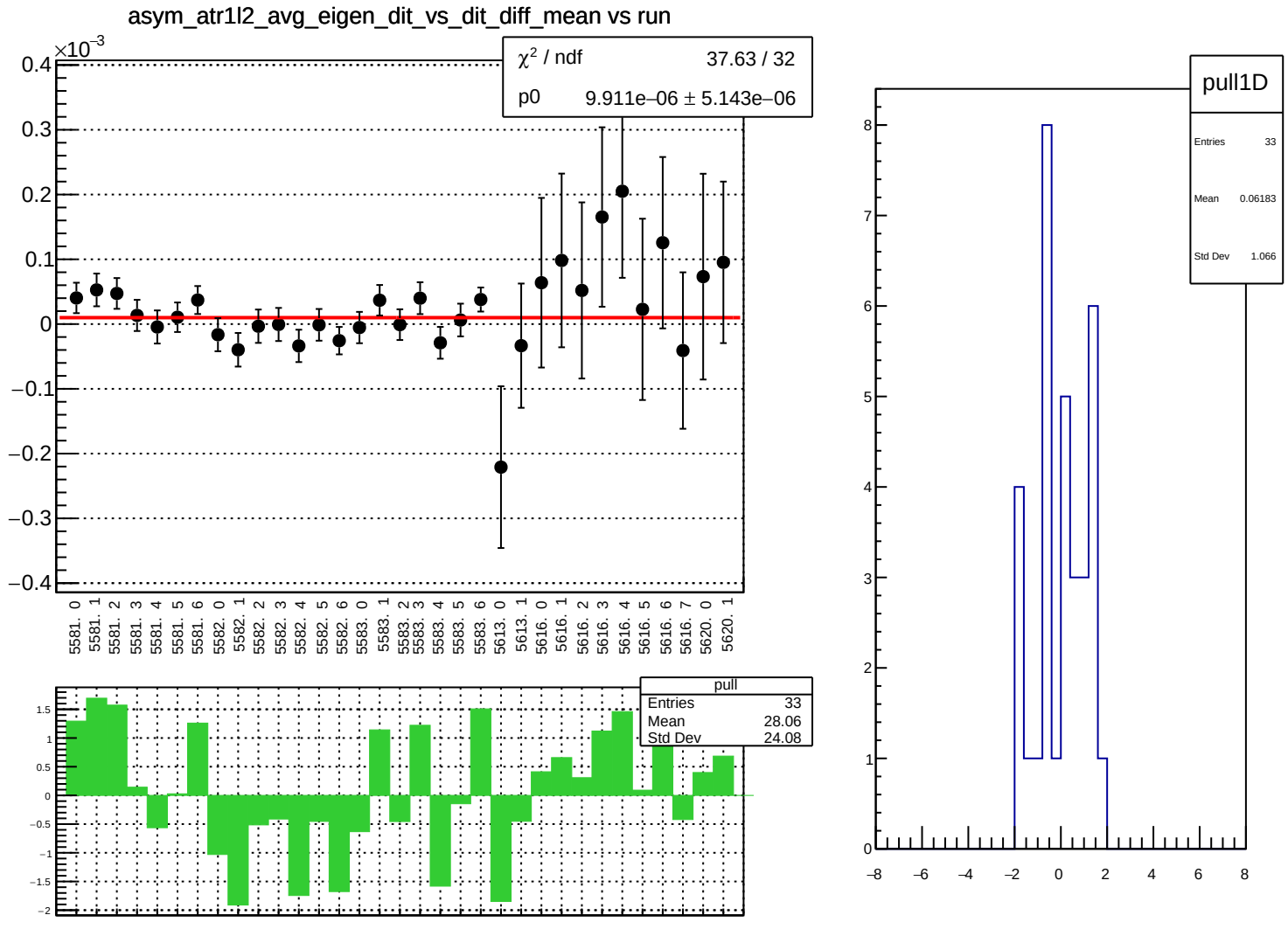

pull1D
Entries 33
Mean −0.1086
Std Dev 0.8034

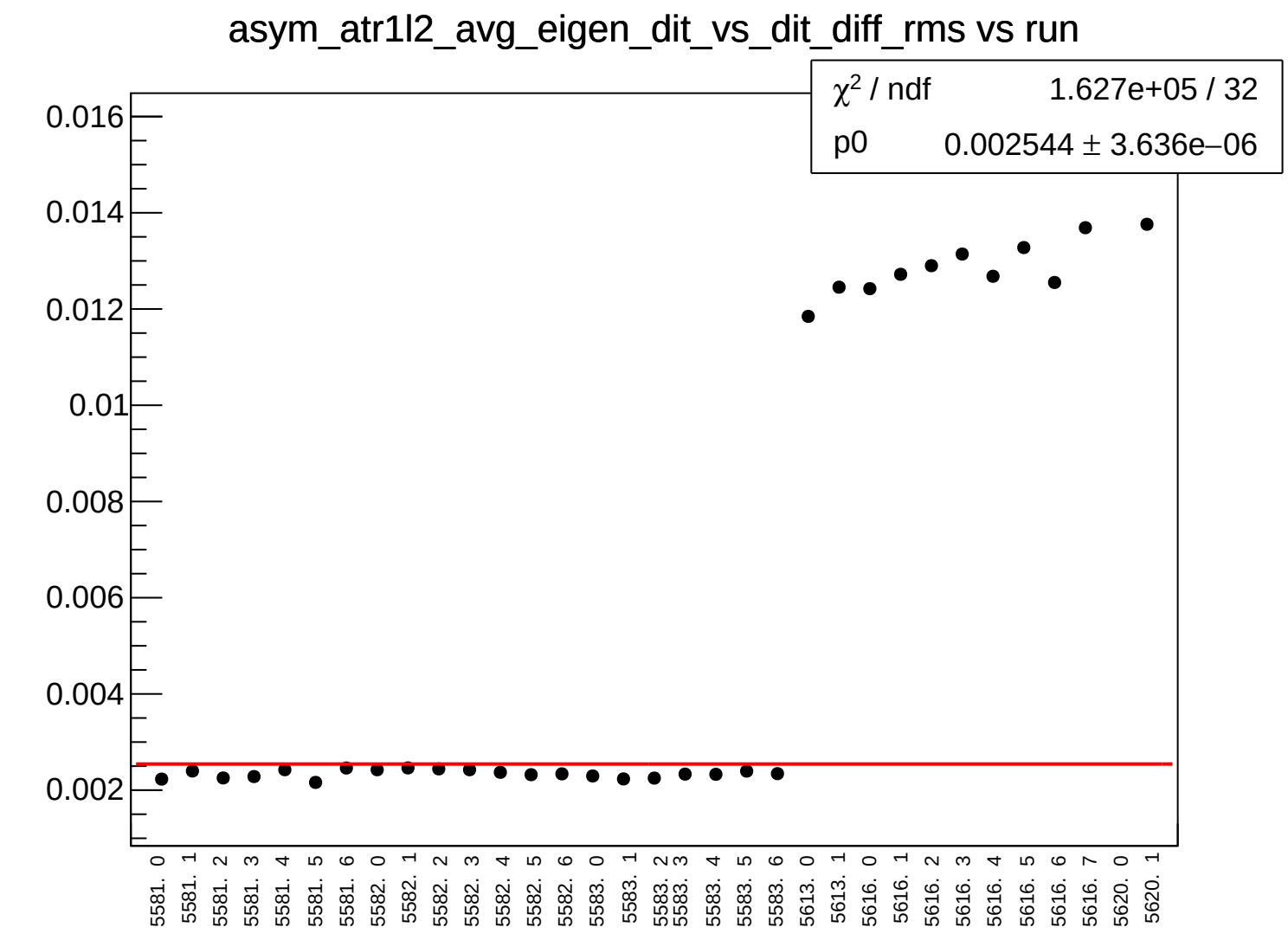

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.427e+05 / 32
p0 69.7 ± 0.109
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

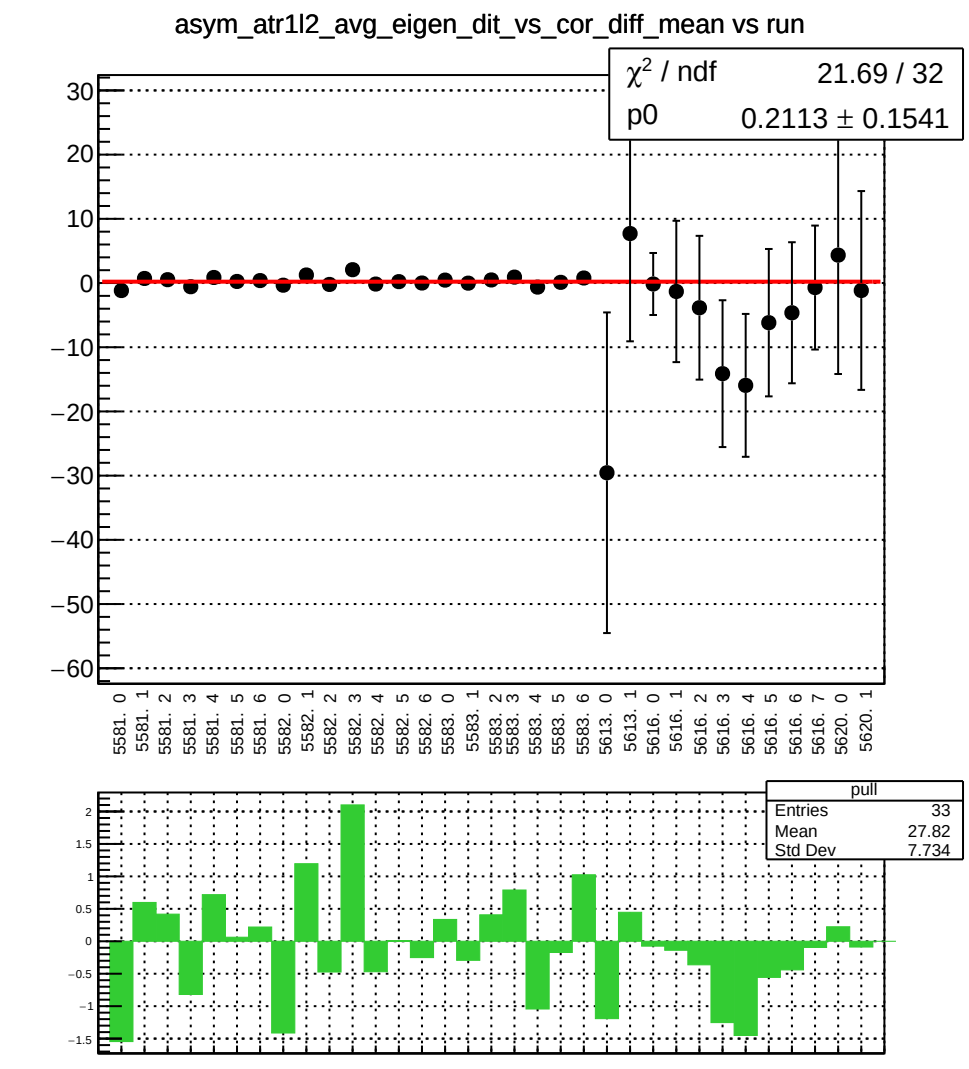

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.69 / 32
p0 0.2113 ± 0.1541
pull
Entries 33
Mean 27.82
Std Dev 7.735

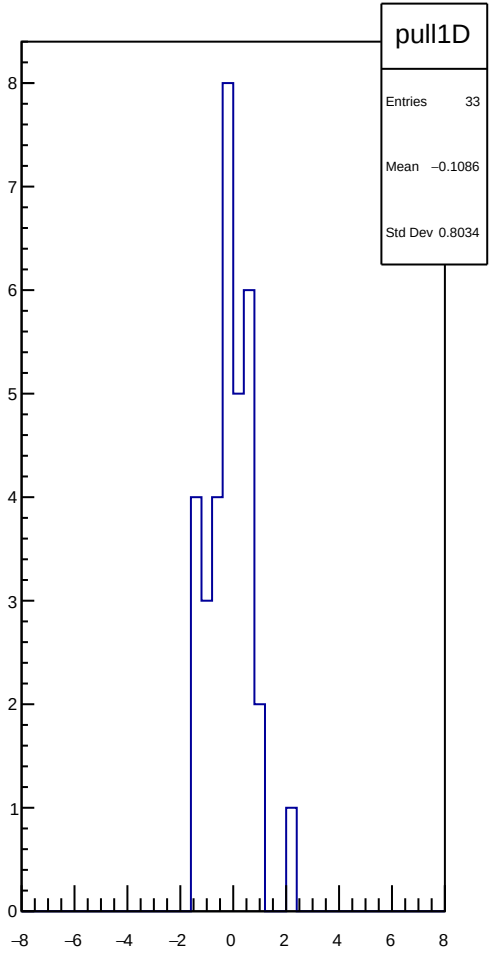

pull1D
Entries 33
Mean −0.1086
Std Dev 0.8034

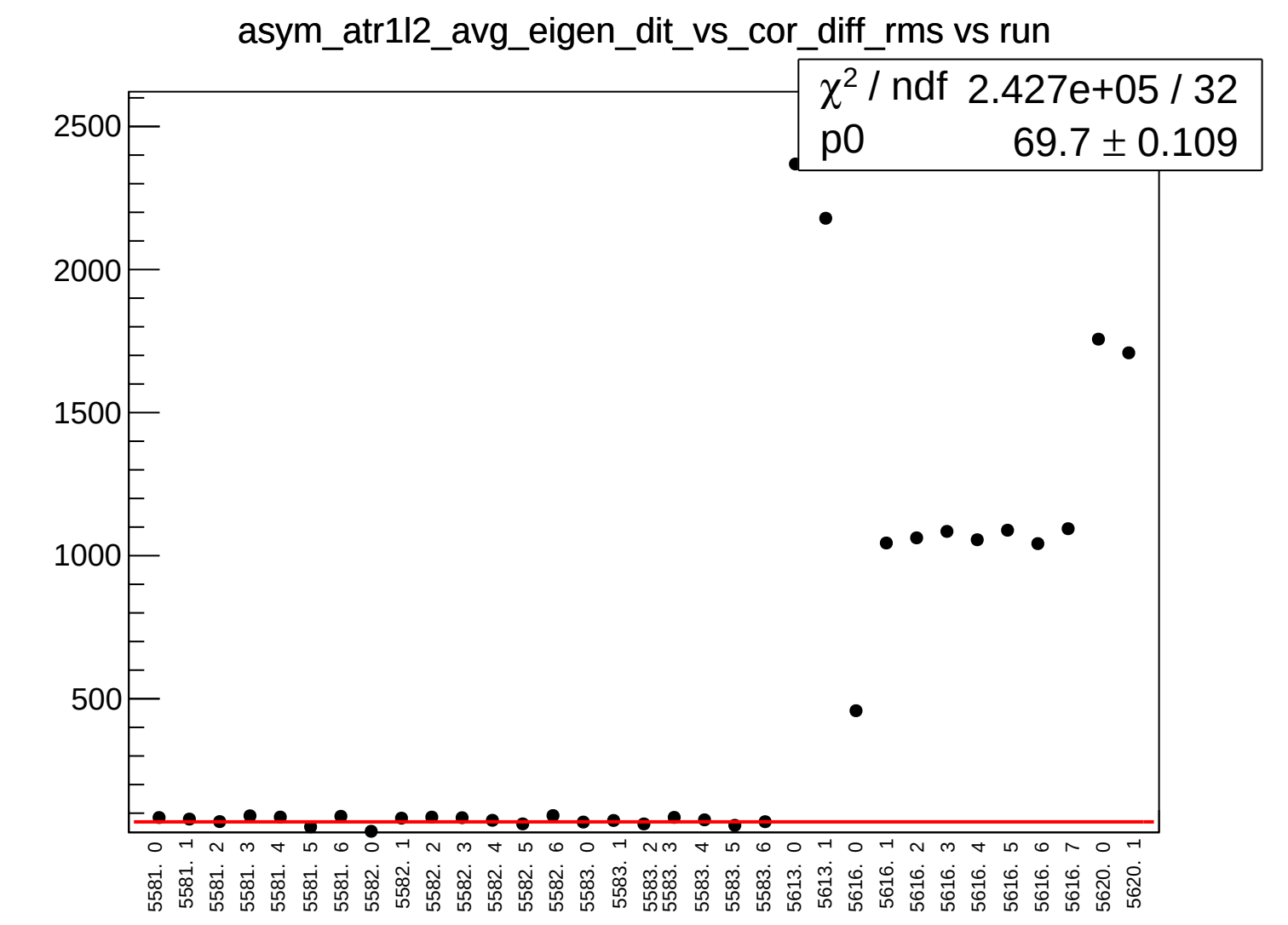

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.427e+05 / 32
p0 69.7 ± 0.109
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

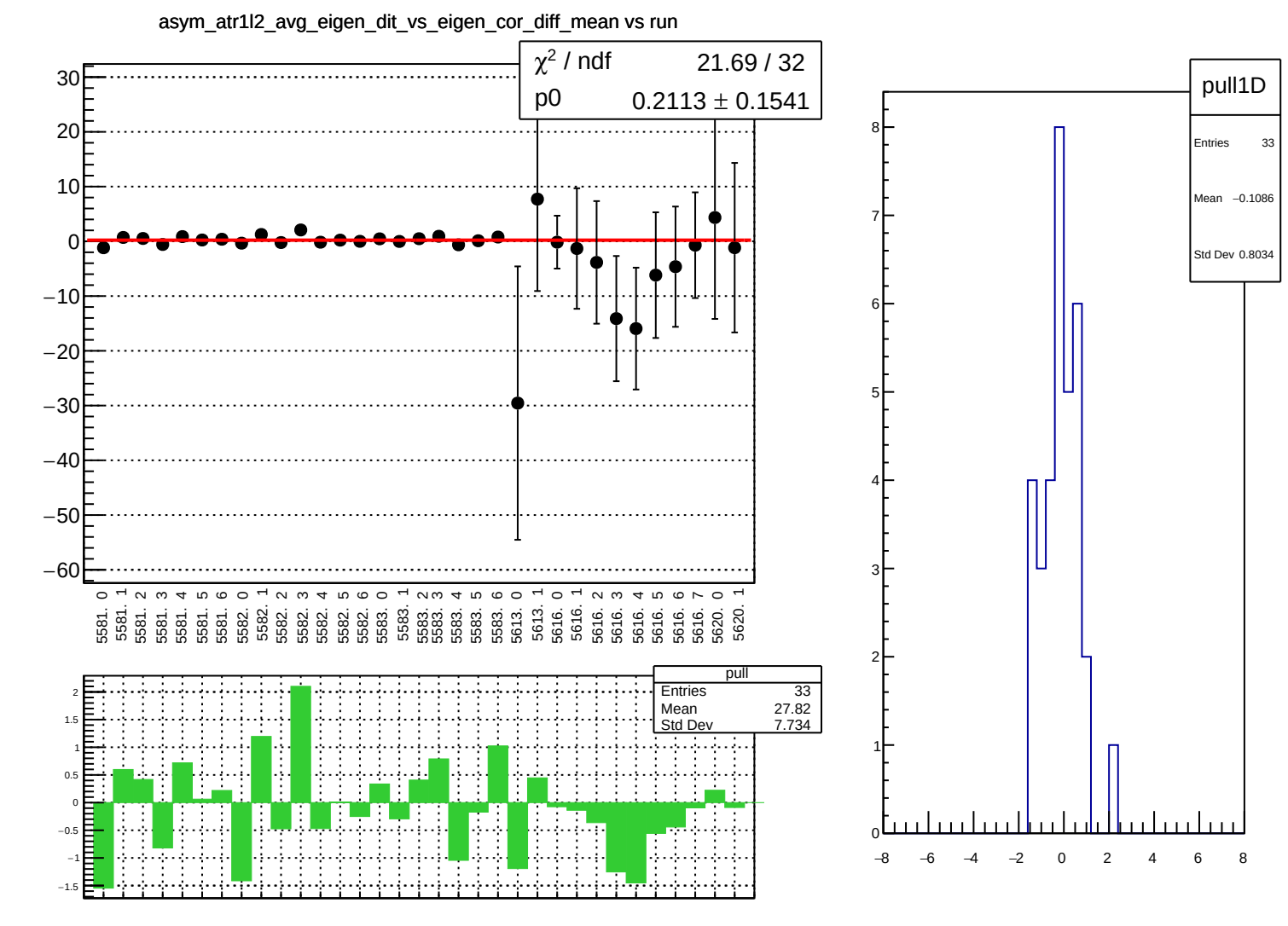

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 37.63 / 32
p0 9.911e−06 ± 5.143e−06
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.06
Std Dev 24.08
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.06183
Std Dev 1.066
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

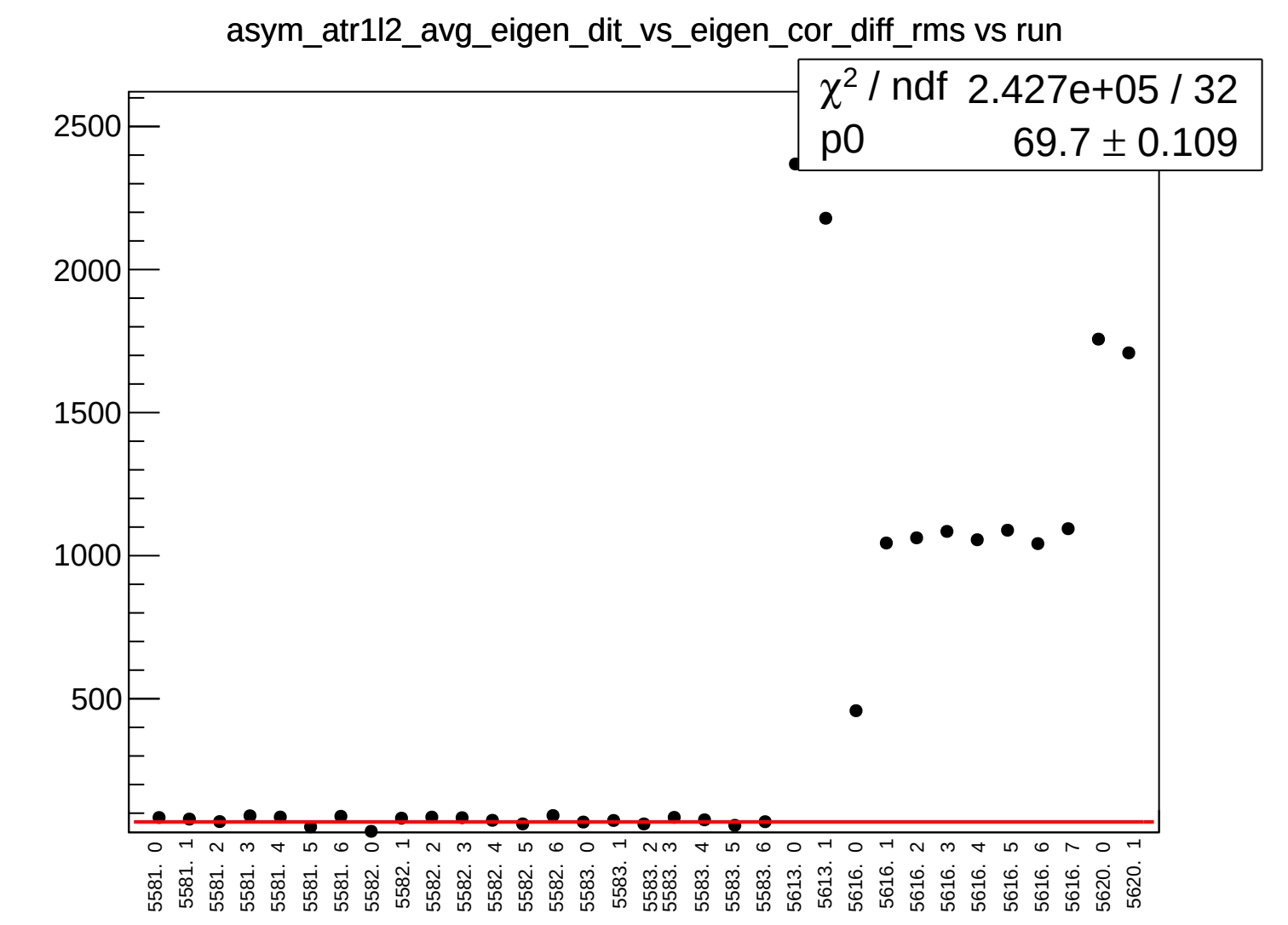

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.627e+05 / 32
p0 0.002544 ± 3.636e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

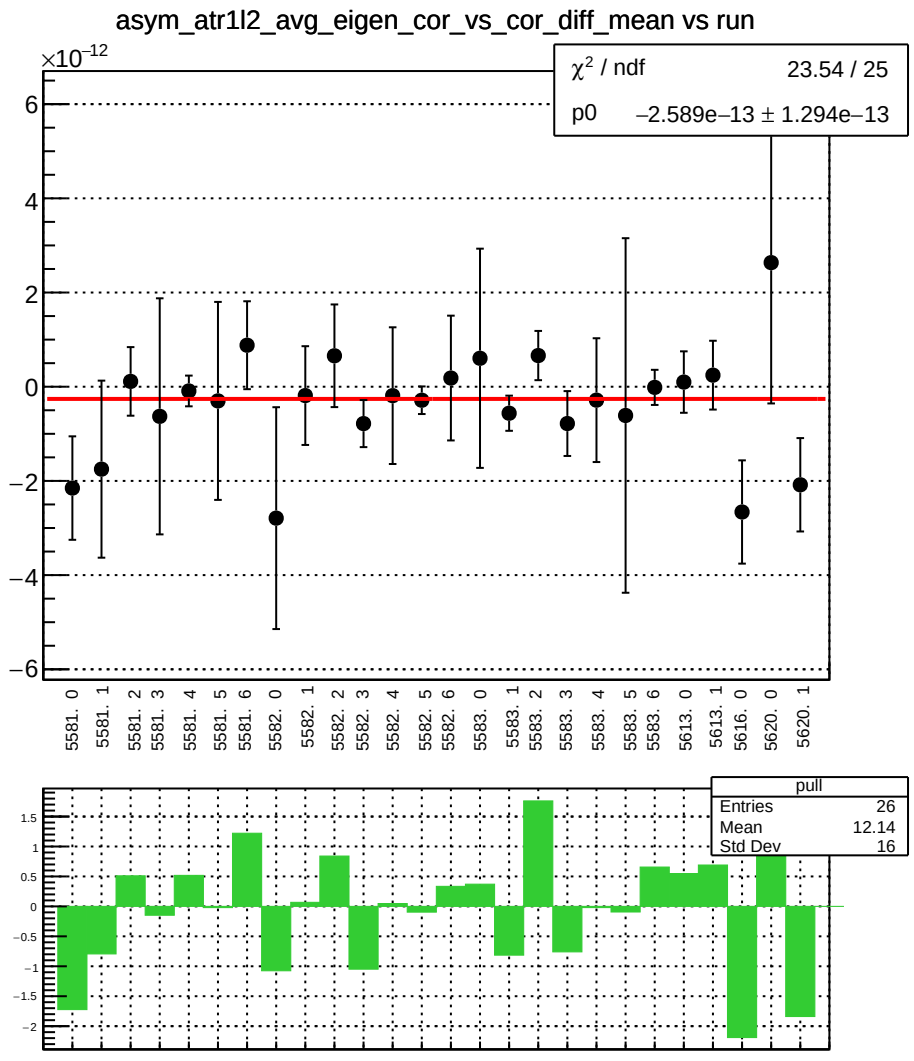

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 21.69 / 32
p0 0.2113 ± 0.1541
30
20
10
0
−10
−20
−30
−40
−50
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.82
Std Dev 7.734
2
1.5
1
0.5
0
−0.5
−1
−1.5

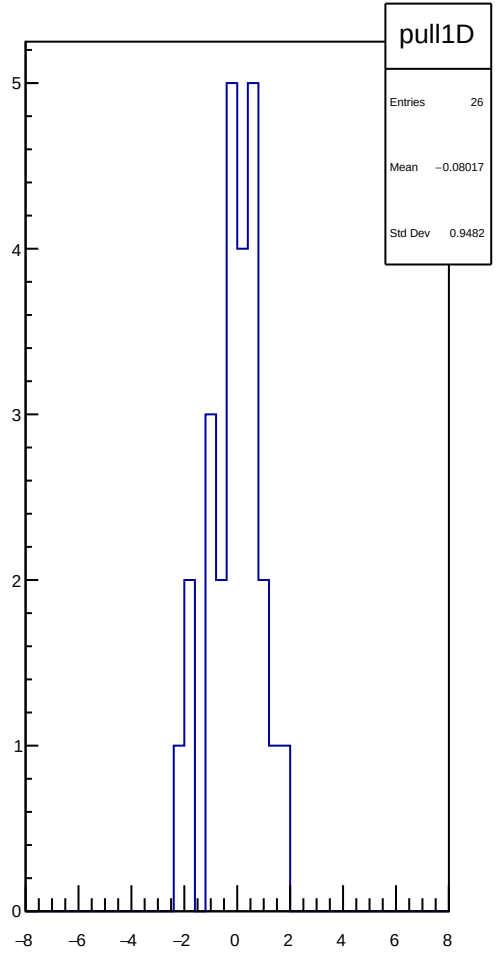

pull1D
Entries 33
Mean −0.1086
Std Dev 0.8034
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

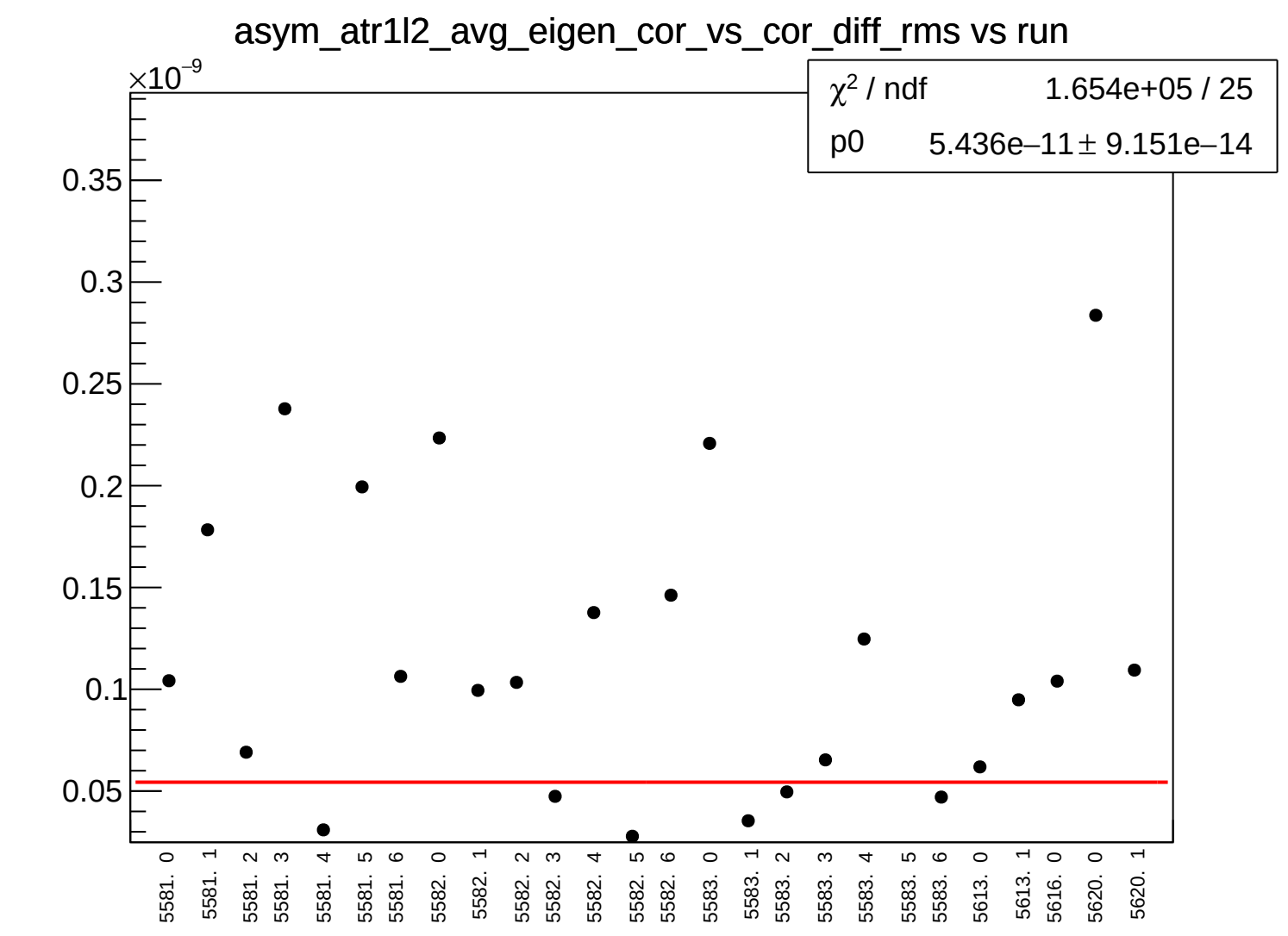

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.427e+05 / 32
p0 69.7 ± 0.109
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

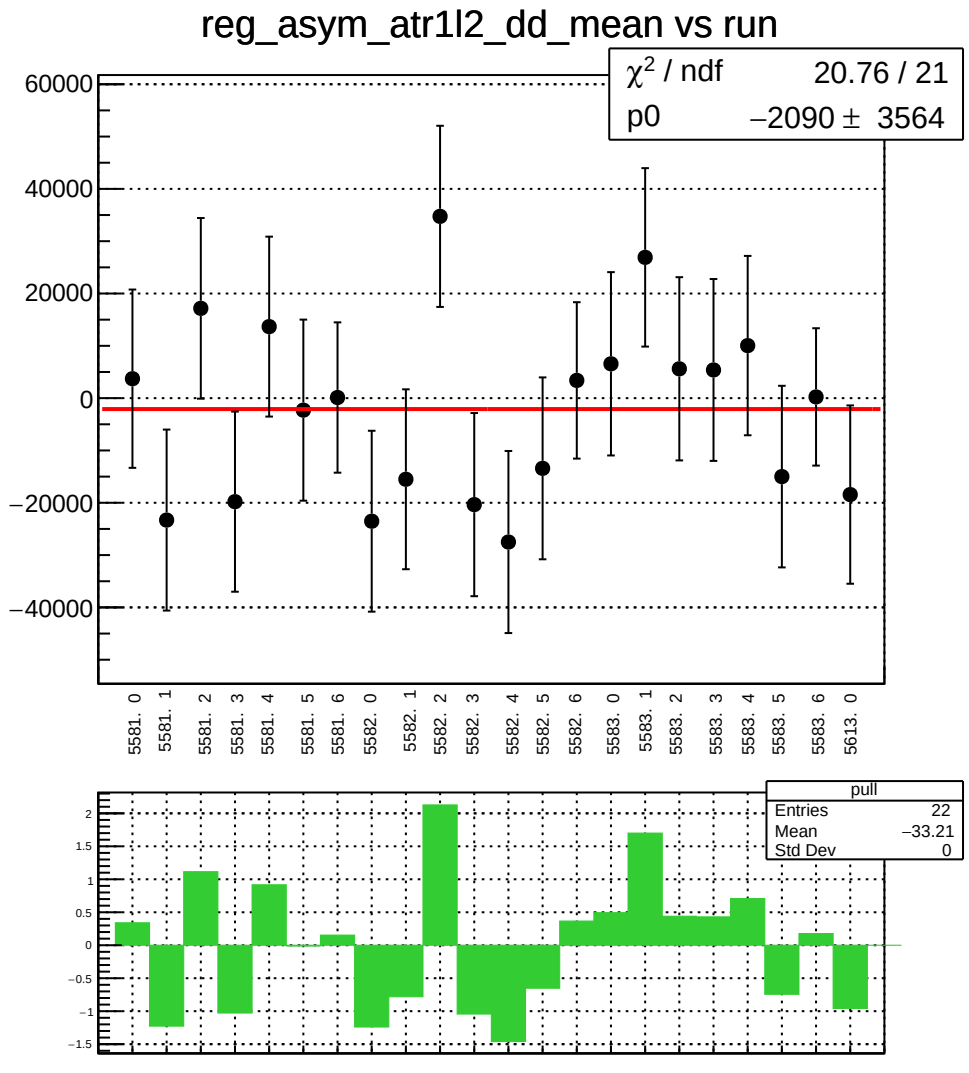

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.69 / 32
p0 0.2113 ± 0.1541
pull
Entries 33
Mean 27.82
Std Dev 7.734
pull1D
Entries 33
Mean −0.1086
Std Dev 0.8034

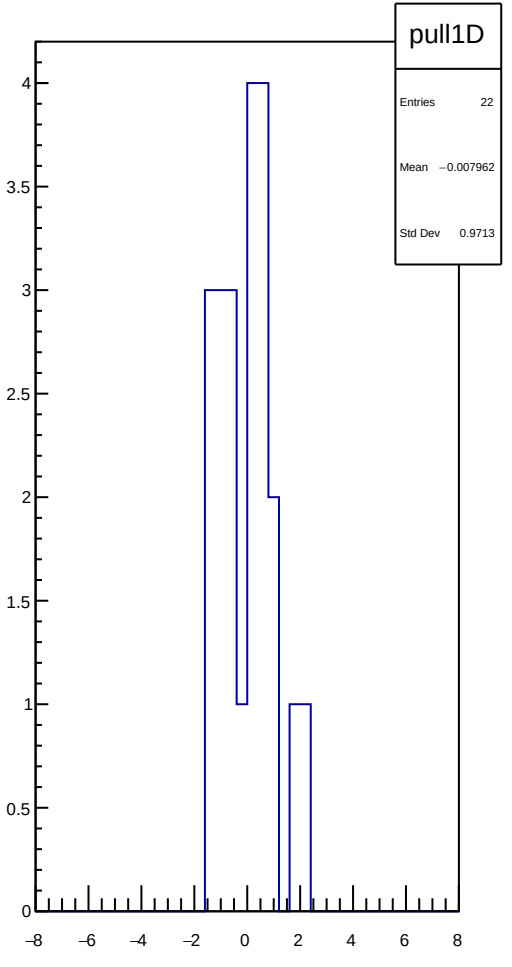

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.427e+05 / 32
p0 69.7 ± 0.109
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

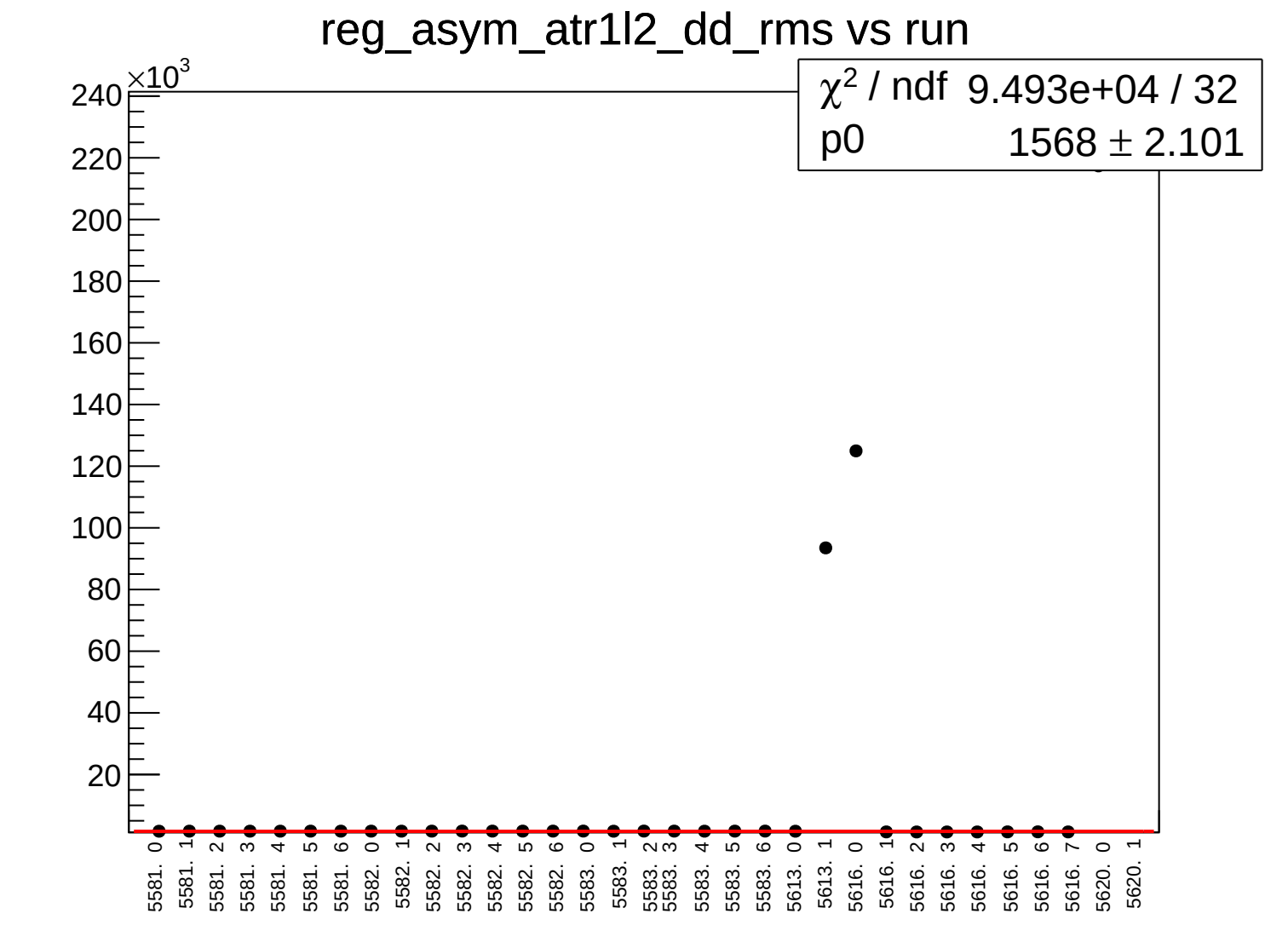

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 23.54 / 25
p0 −2.589e−13 ± 1.294e−13
6
4
2
0
−2
−4
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 12.14
Std Dev 16
1.5
1
0.5
0
−0.5
−1
−1.5
−2

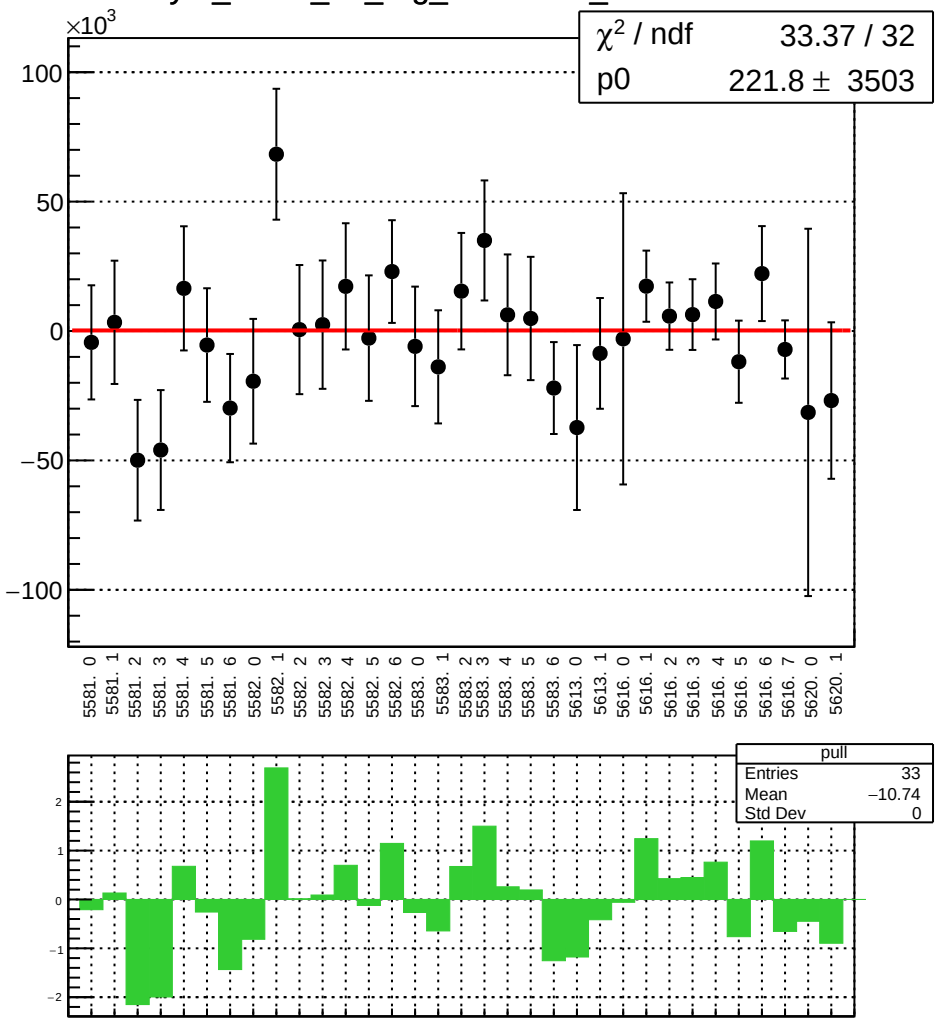

pull1D
Entries 26
Mean −0.08017
Std Dev 0.9482
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

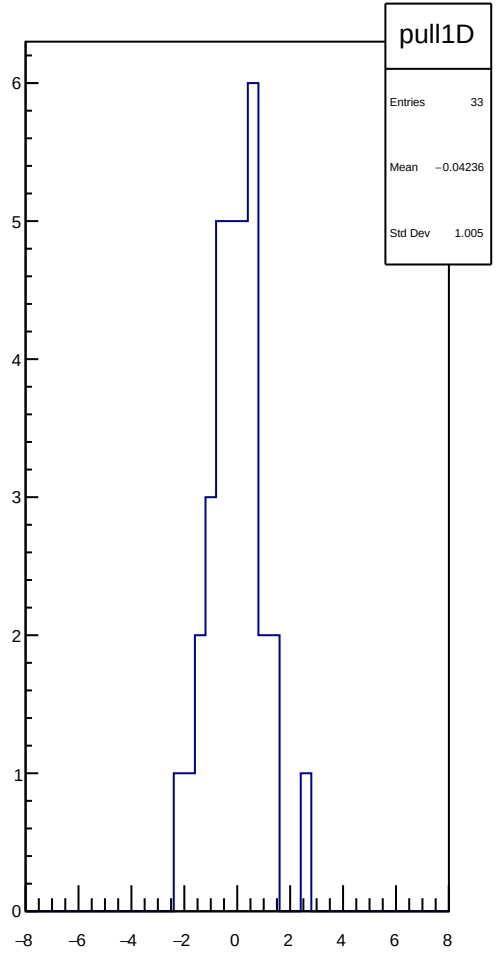

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.654e+05 / 25
p0 5.436e−11 ± 9.151e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

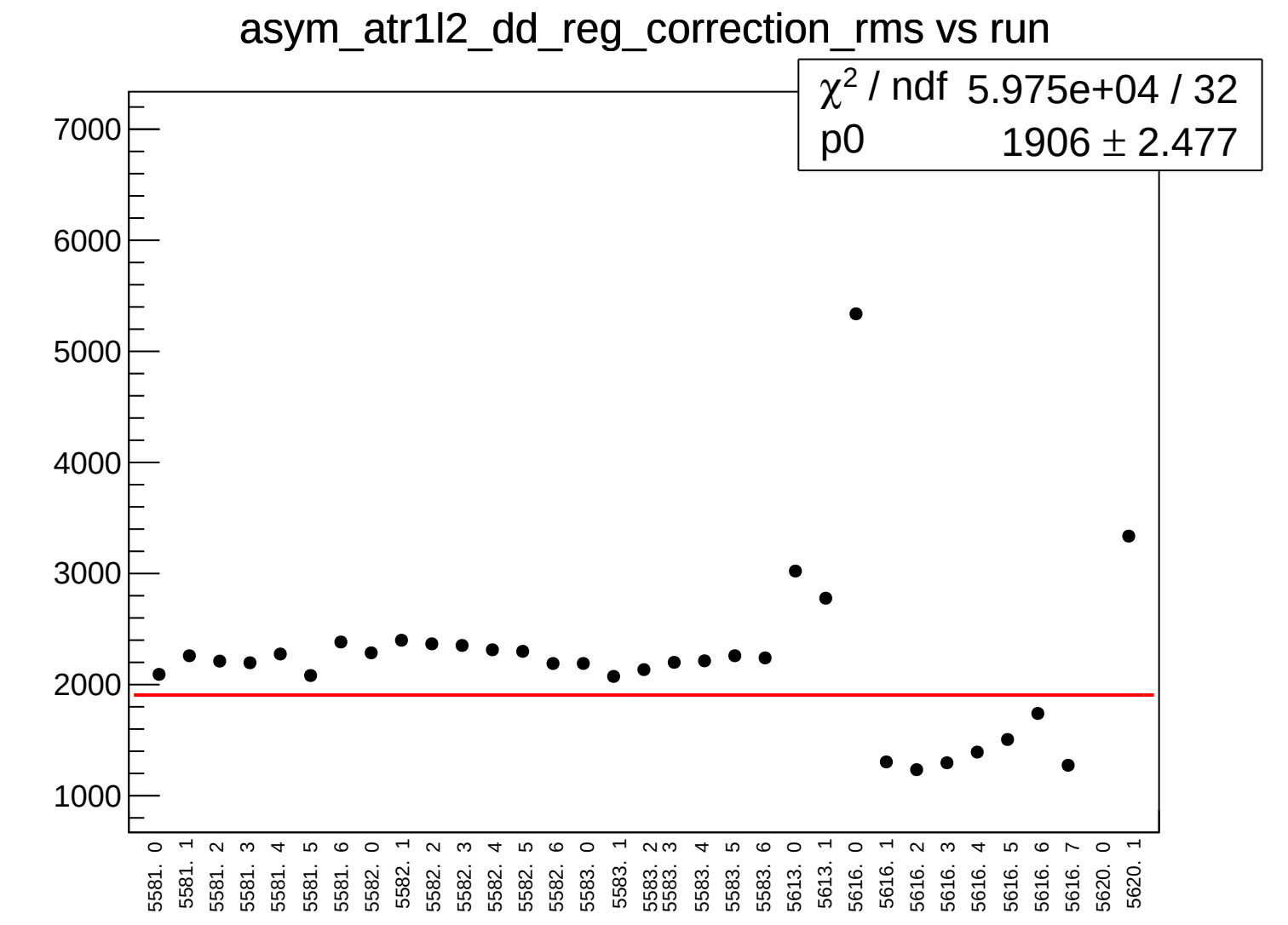

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 20.76 / 21
p0 −2090 ± 3564
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean −33.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

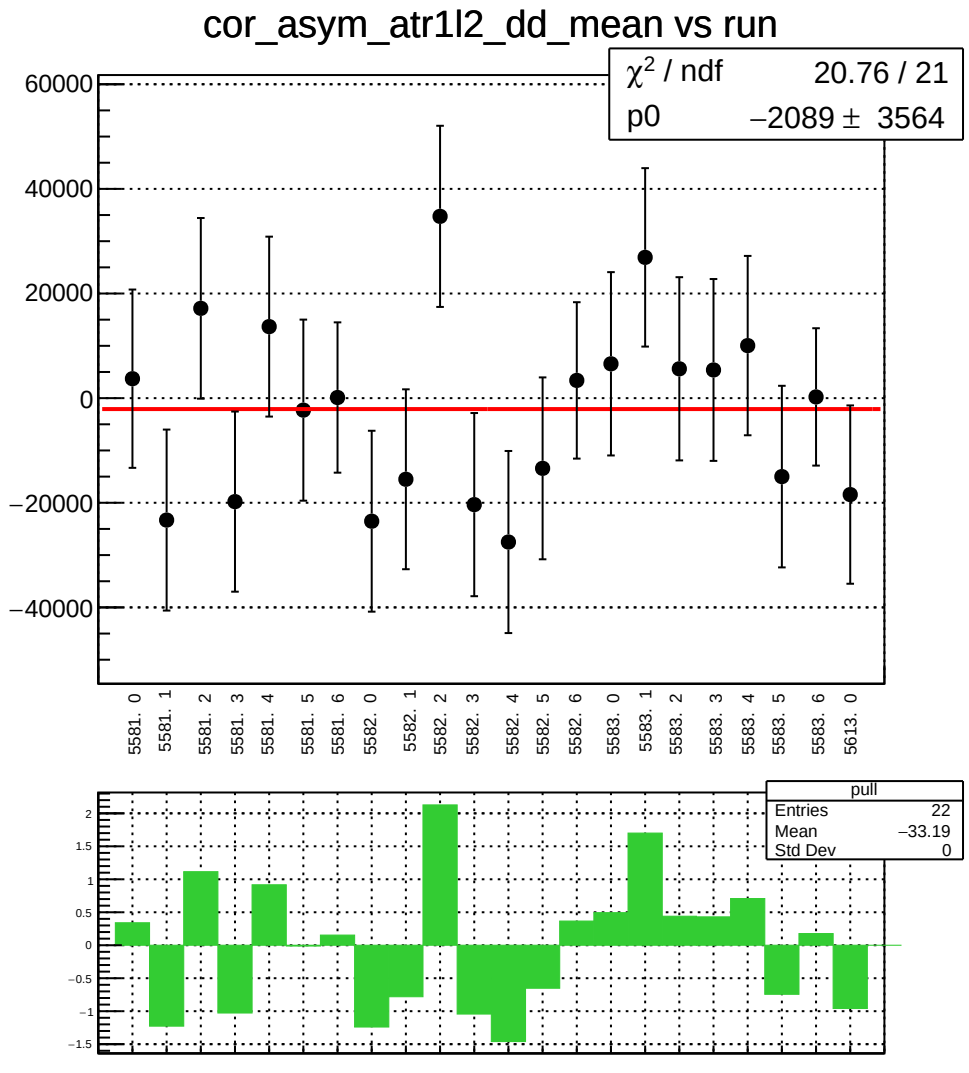

pull1D
Entries 22
Mean −0.007962
Std Dev 0.9713
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

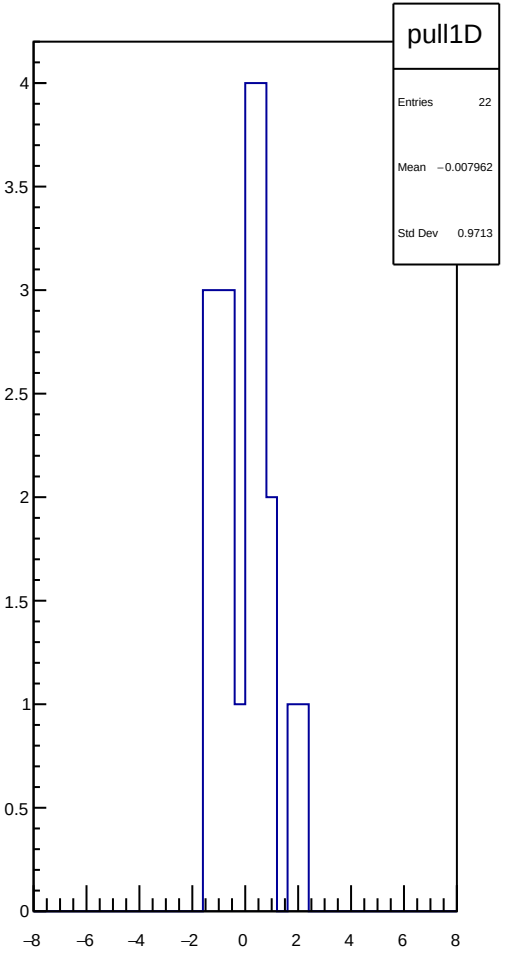

reg_asym_atr1l2_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.493e+04 / 32
p0 1568 ± 2.101
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

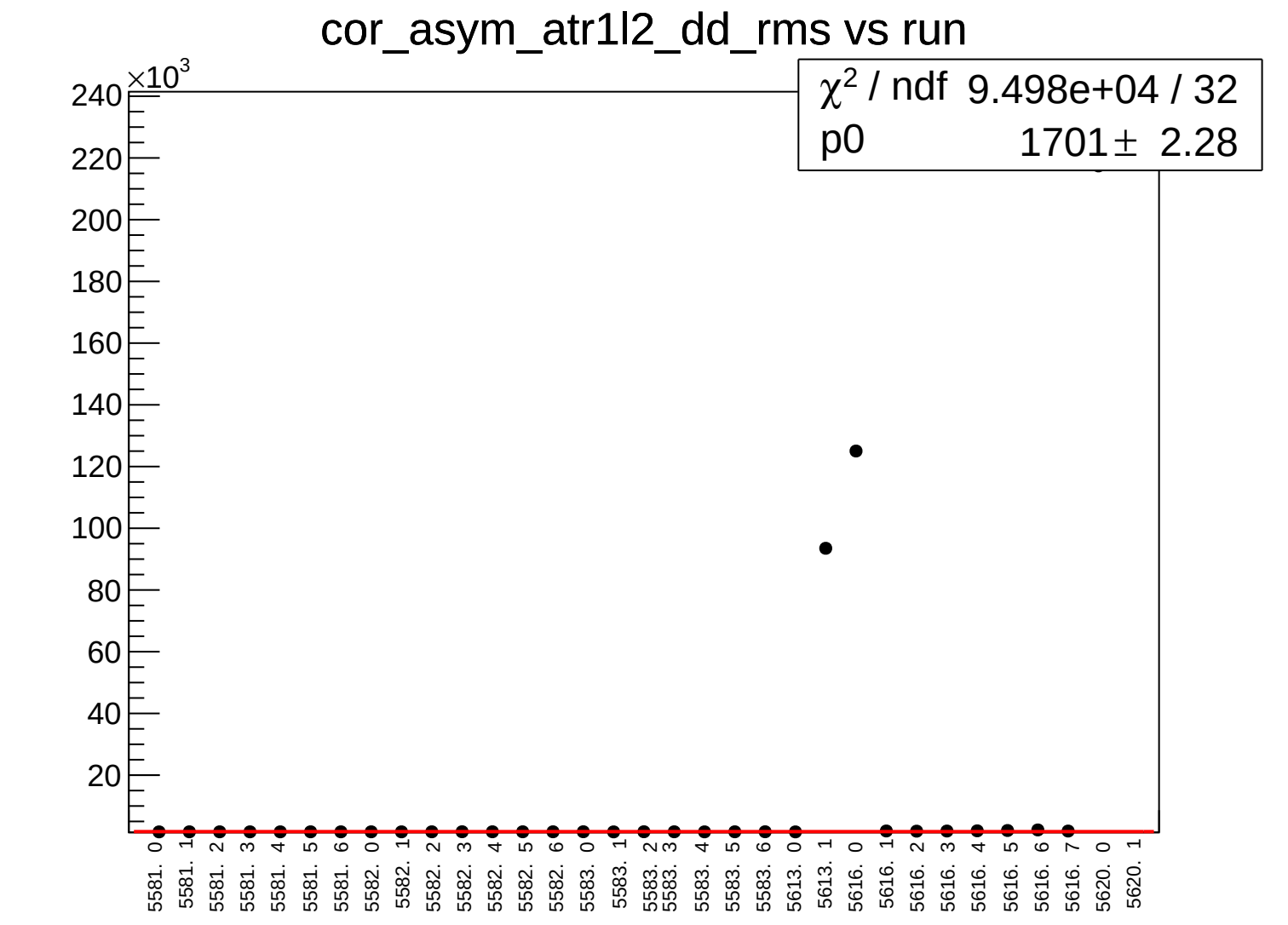

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 33.37 / 32
p0 221.8 ± 3503
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −10.74
Std Dev 0
2
1
0
−1
−2

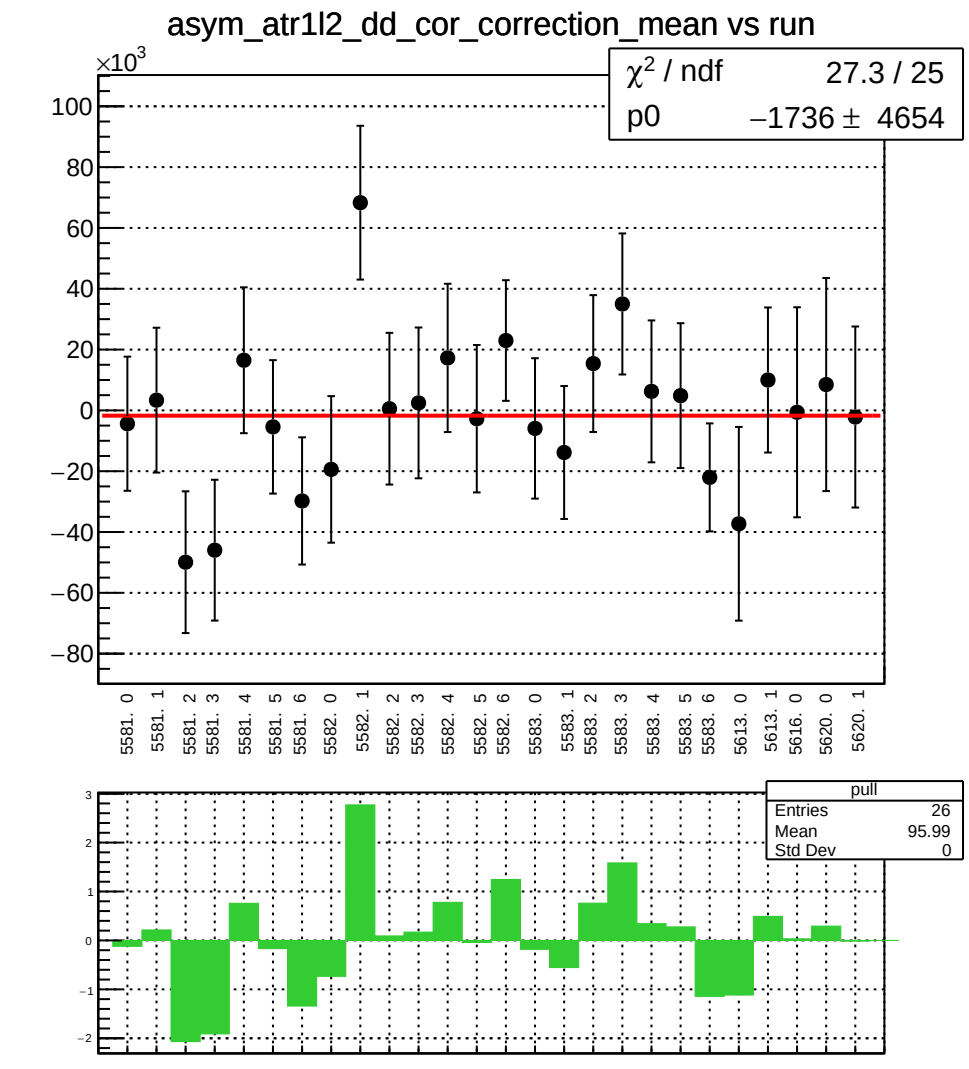

pull1D
Entries 33
Mean −0.04236
Std Dev 1.005
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

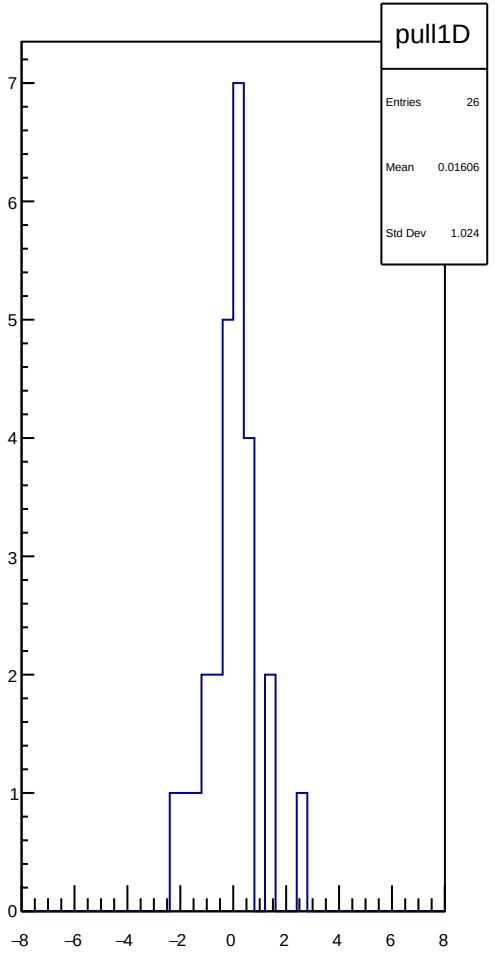

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 5.975e+04 / 32
p0 1906 ± 2.477
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

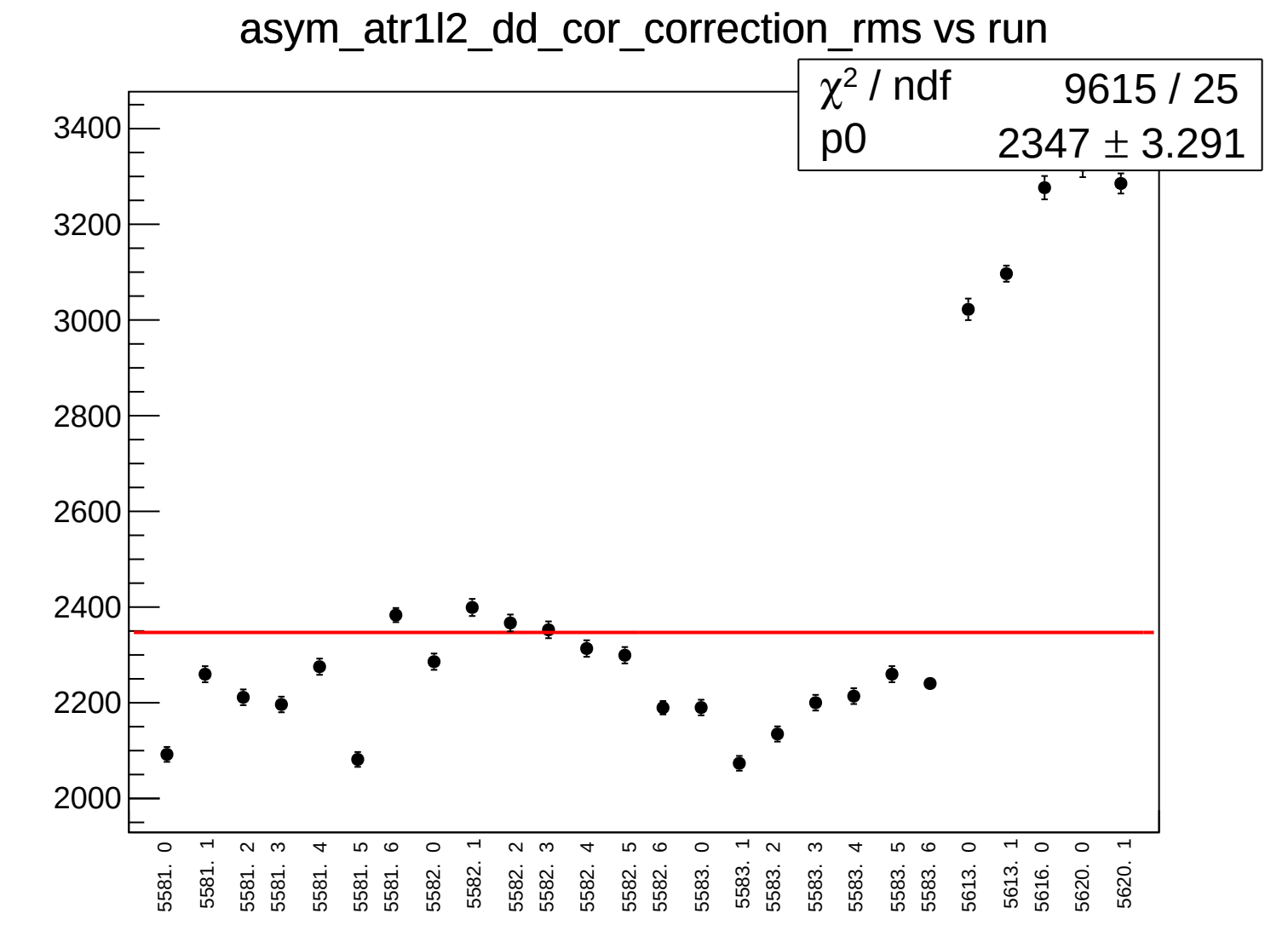

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 20.76 / 21
p0 −2089 ± 3564
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean −33.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

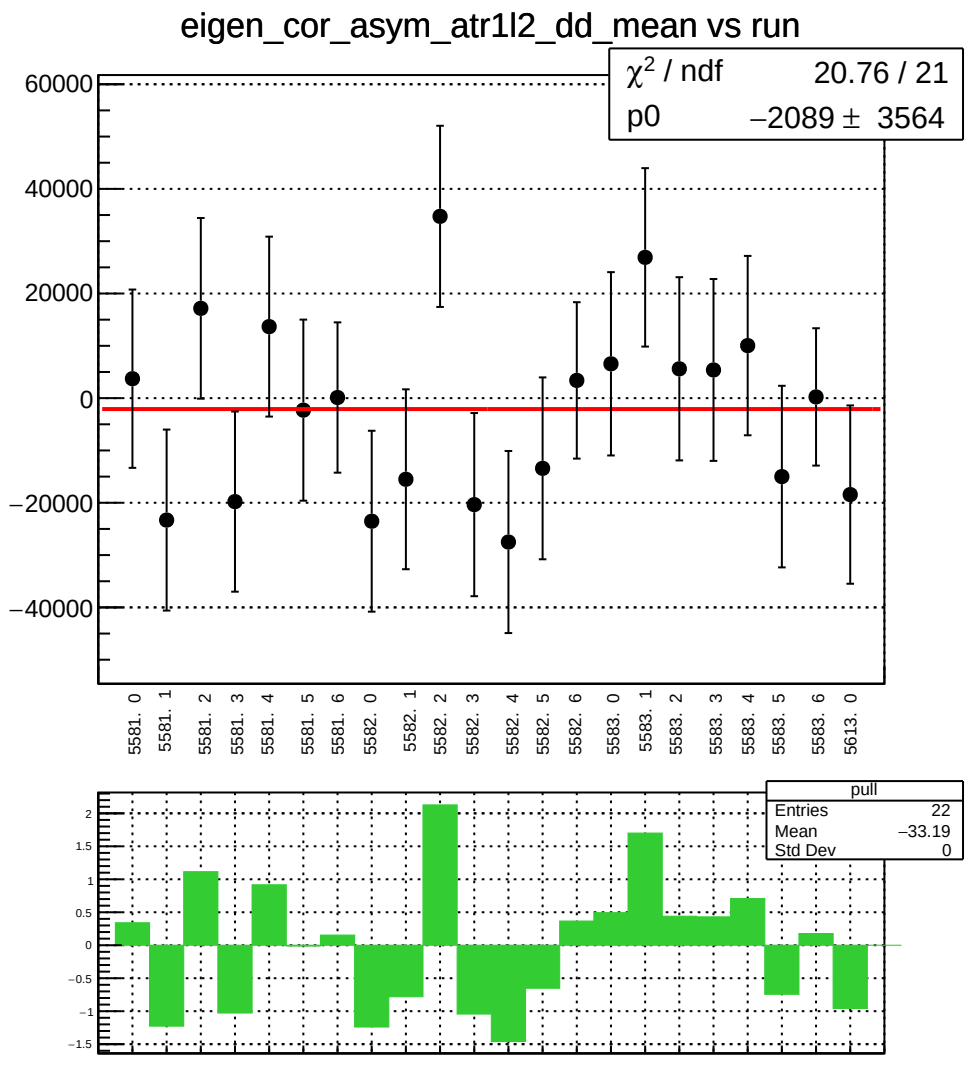

pull1D
Entries 22
Mean −0.007962
Std Dev 0.9713
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

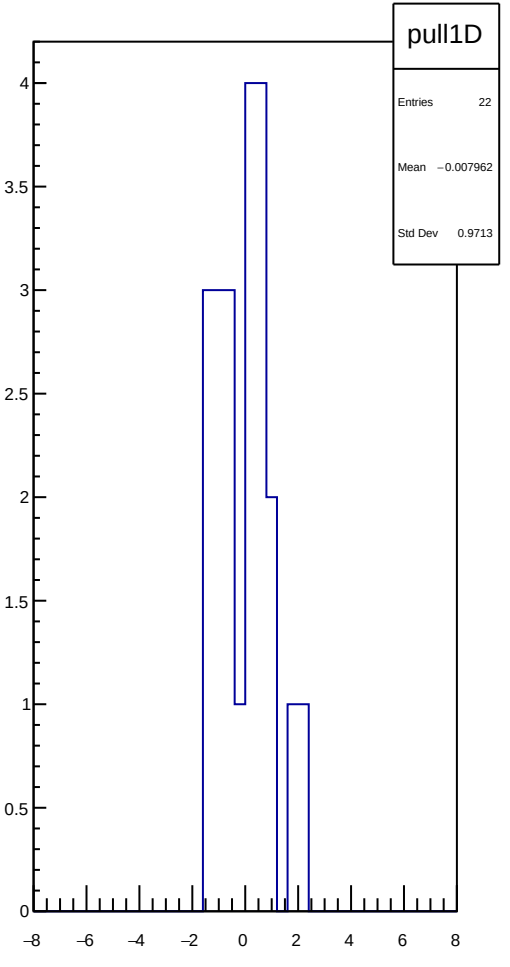

cor_asym_atr1l2_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.498e+04 / 32
p0 1701 ± 2.28
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

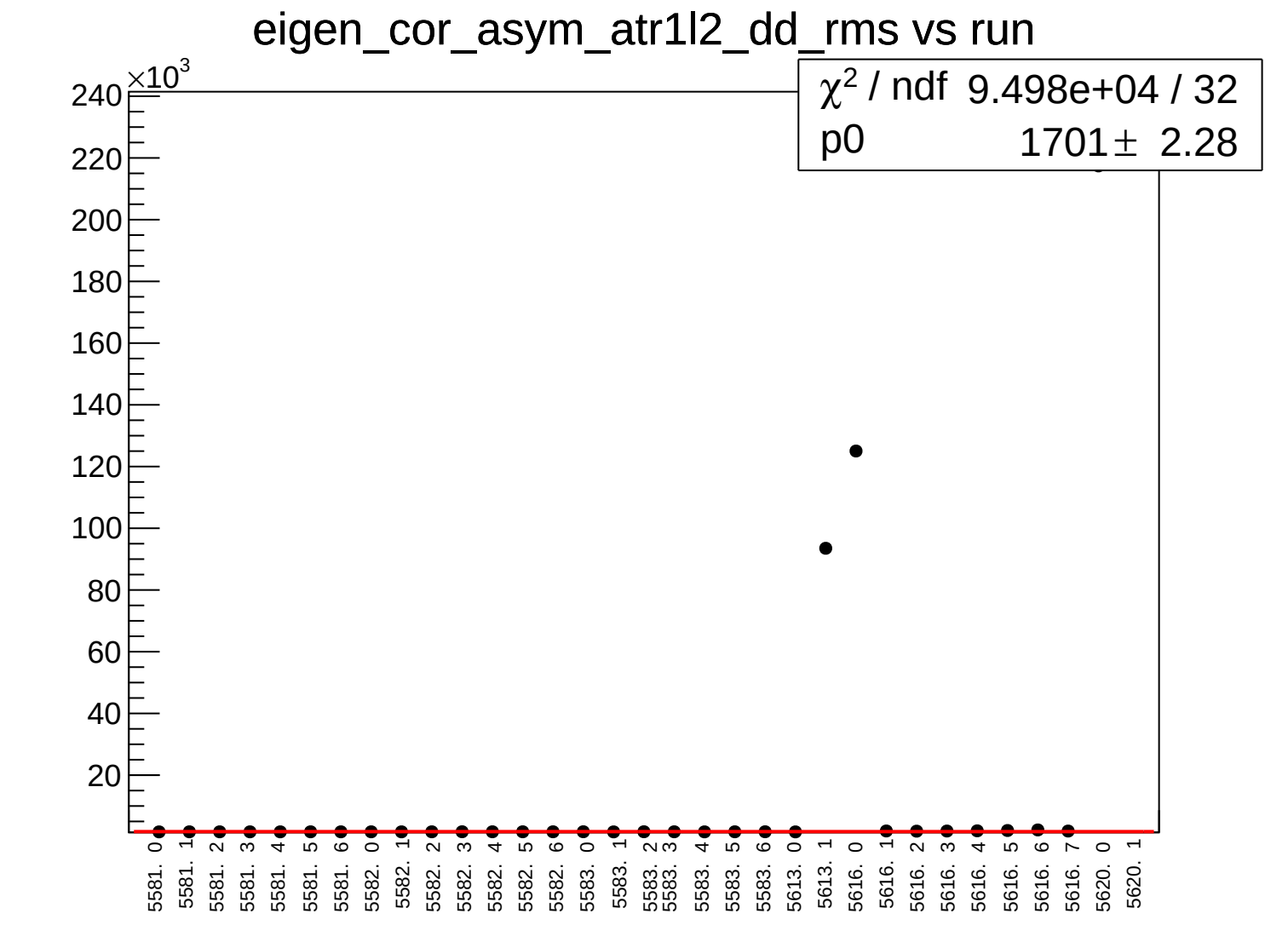

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 27.3 / 25
p0 −1736 ± 4654
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 95.99
Std Dev 0
3
2
1
0
−1
−2

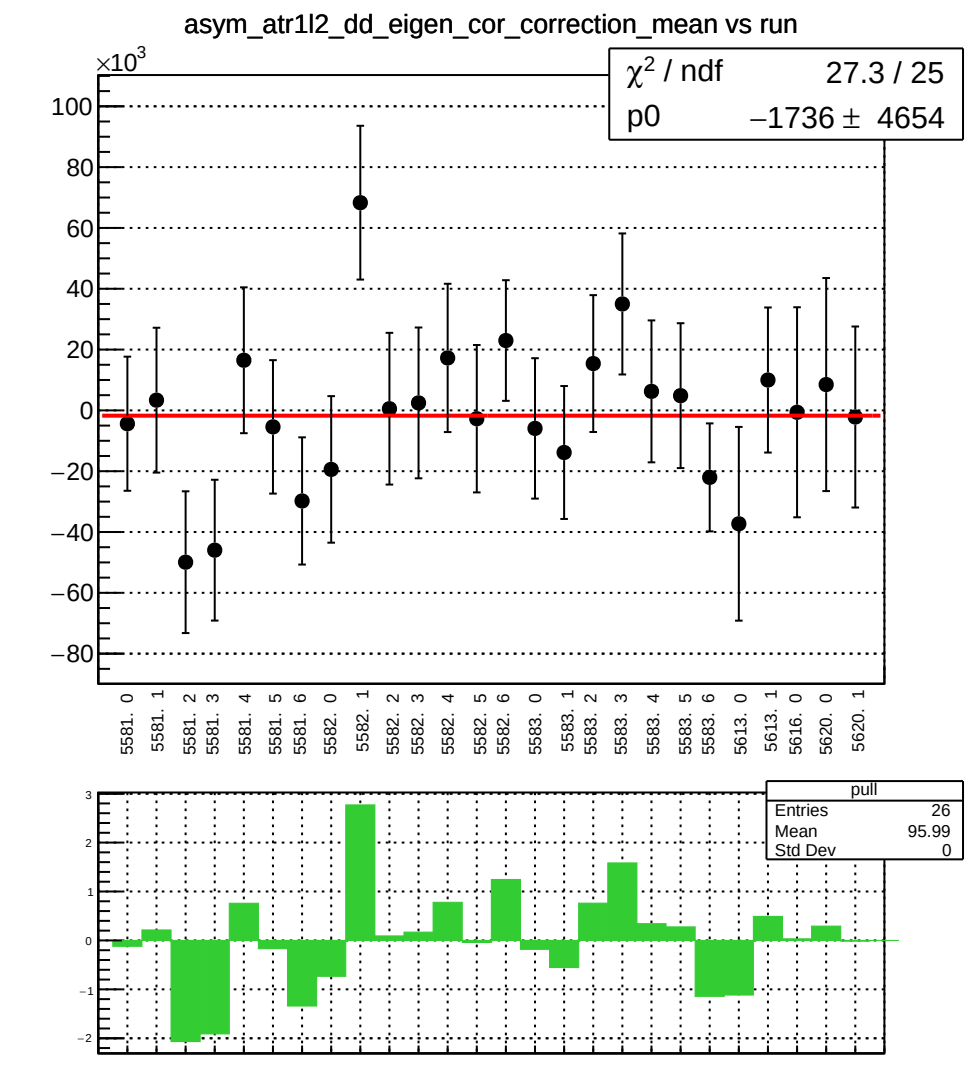

pull1D
Entries 26
Mean 0.01606
Std Dev 1.024
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

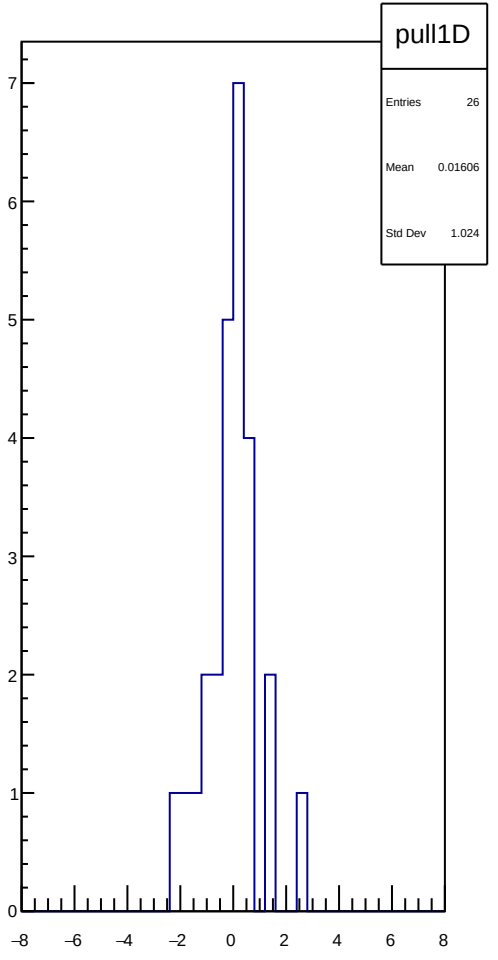

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 9615 / 25
p0 2347 ± 3.291
3400
3200
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

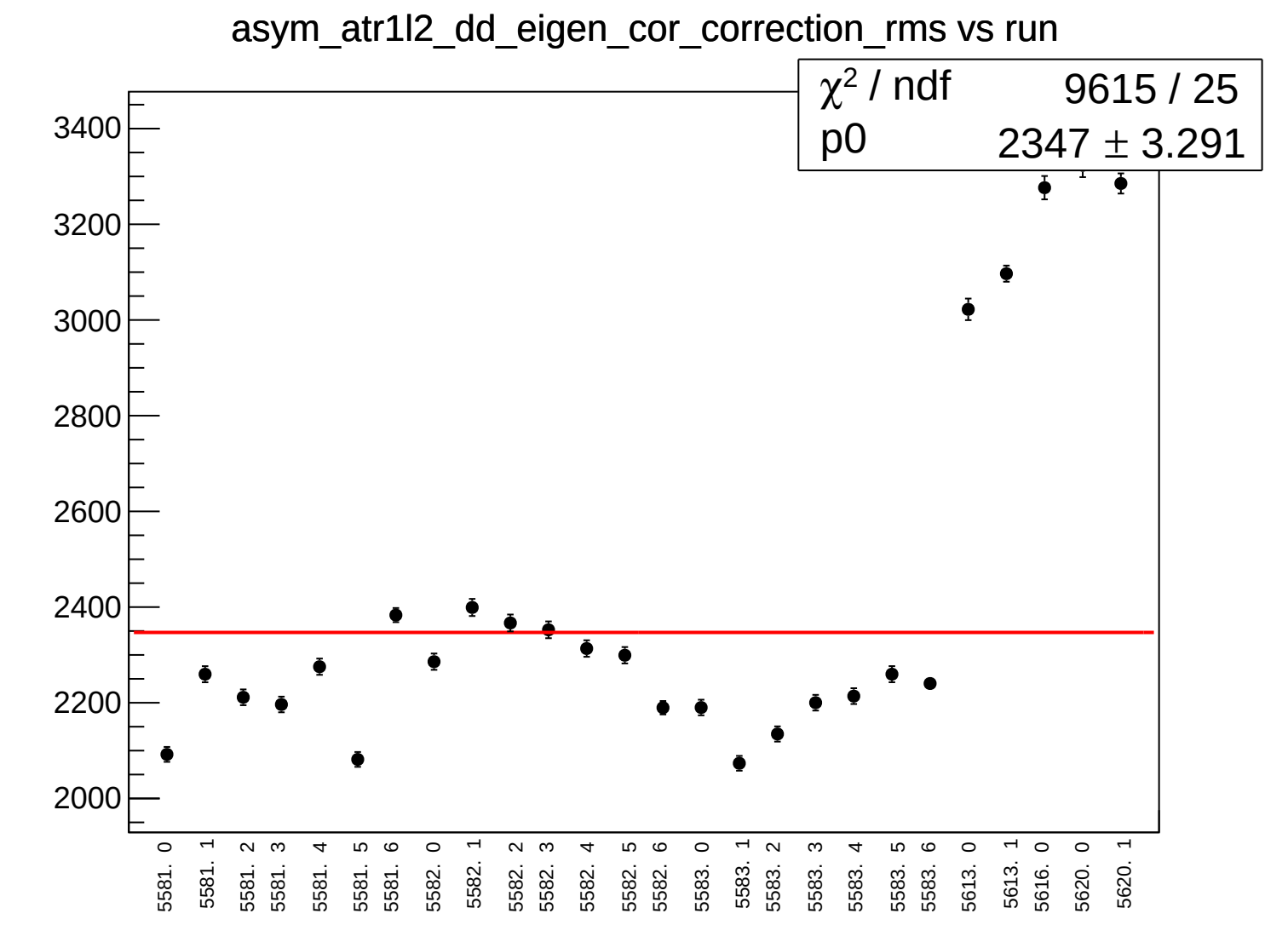

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 20.76 / 21
p0 −2089 ± 3564
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean −33.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

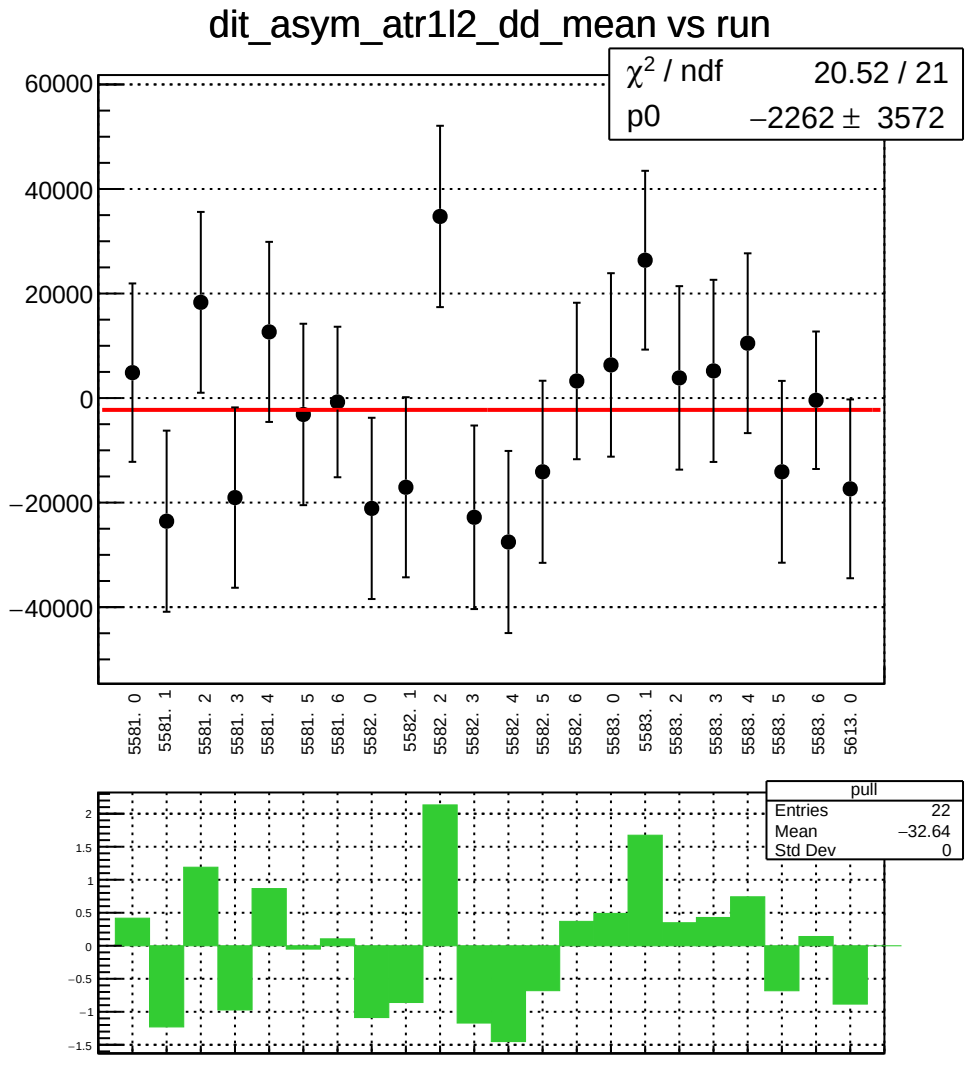

pull1D
Entries 22
Mean −0.007962
Std Dev 0.9713
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

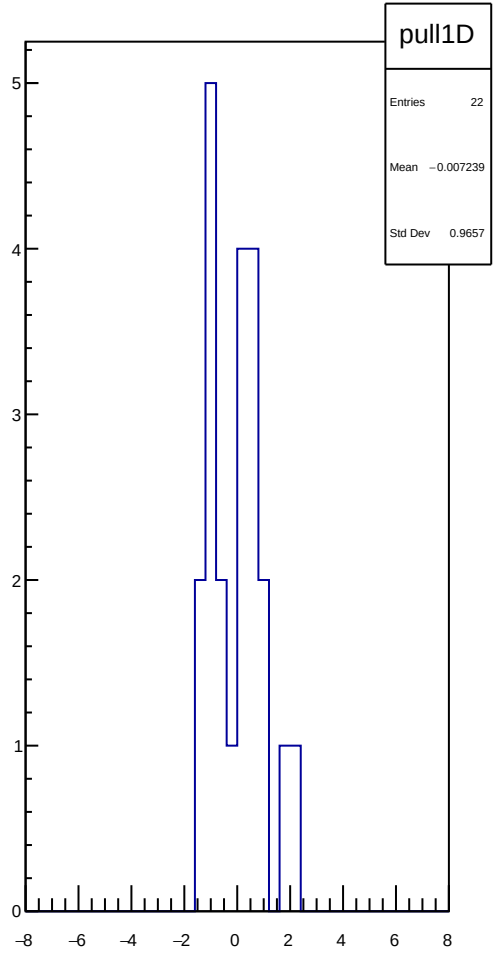

eigen_cor_asym_atr1l2_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.498e+04 / 32
p0 1701 ± 2.28
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

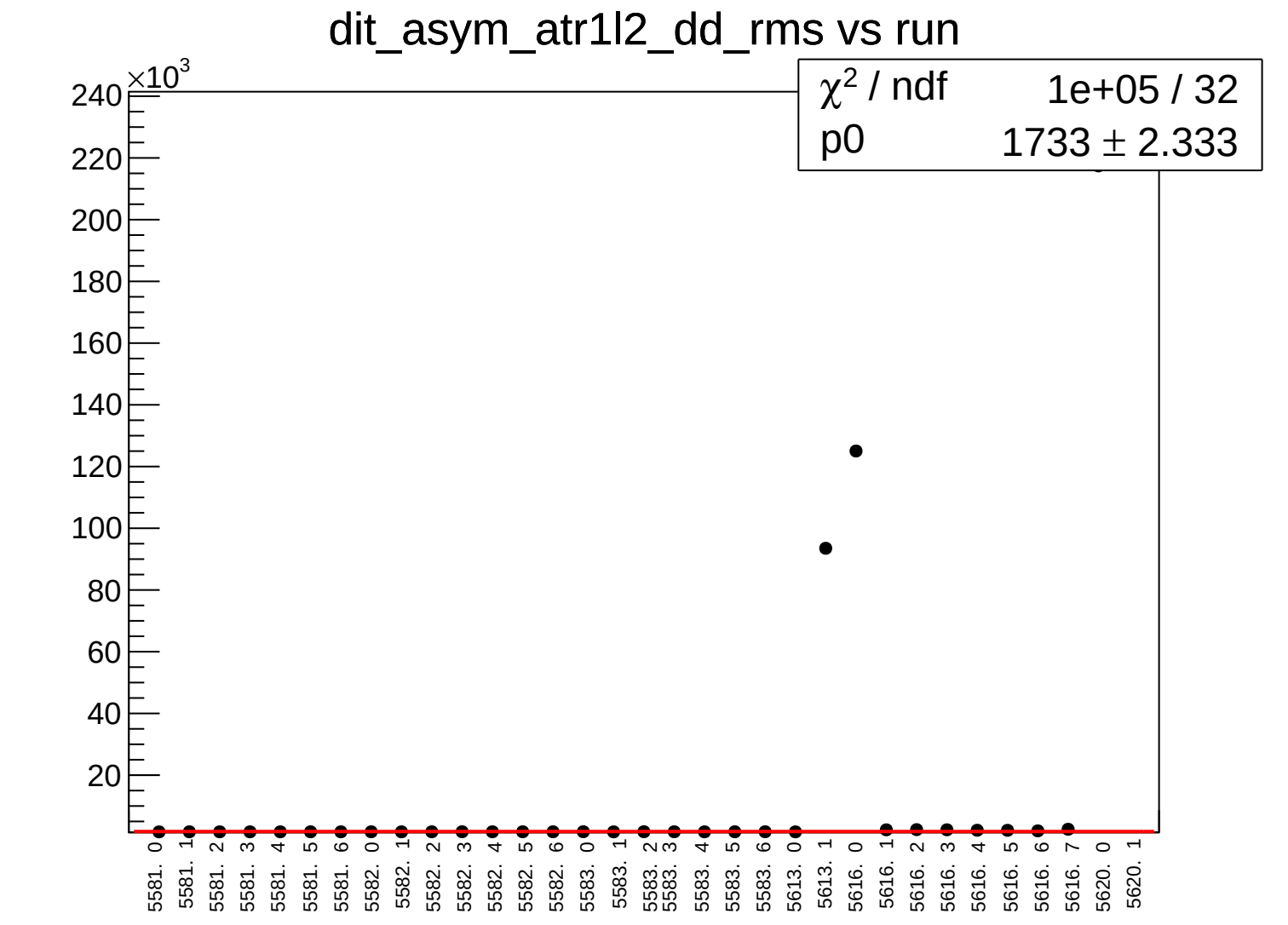

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 27.3 / 25
p0 −1736 ± 4654
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 95.99
Std Dev 0
3
2
1
0
−1
−2

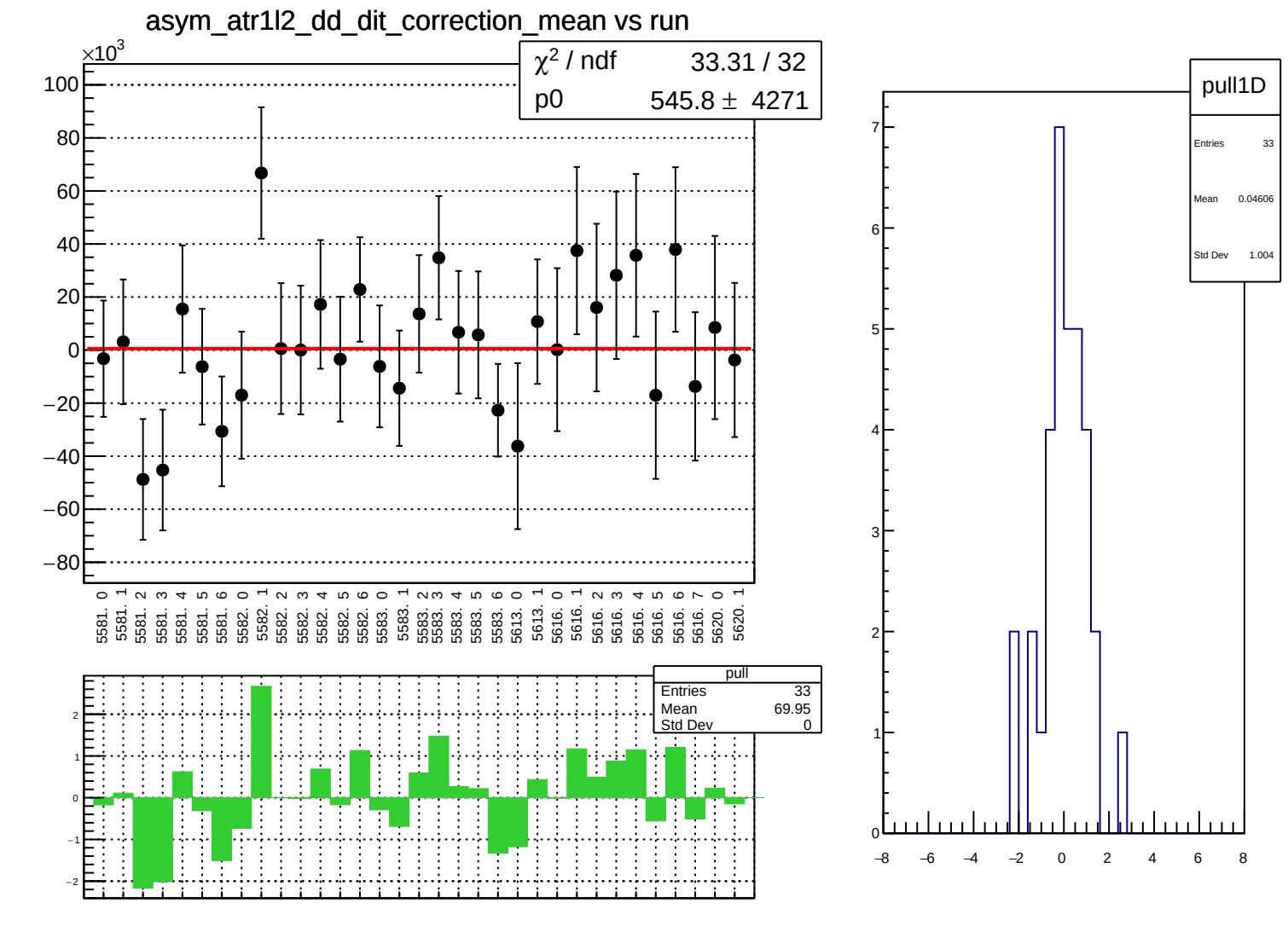

pull1D
Entries 26
Mean 0.01606
Std Dev 1.024
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

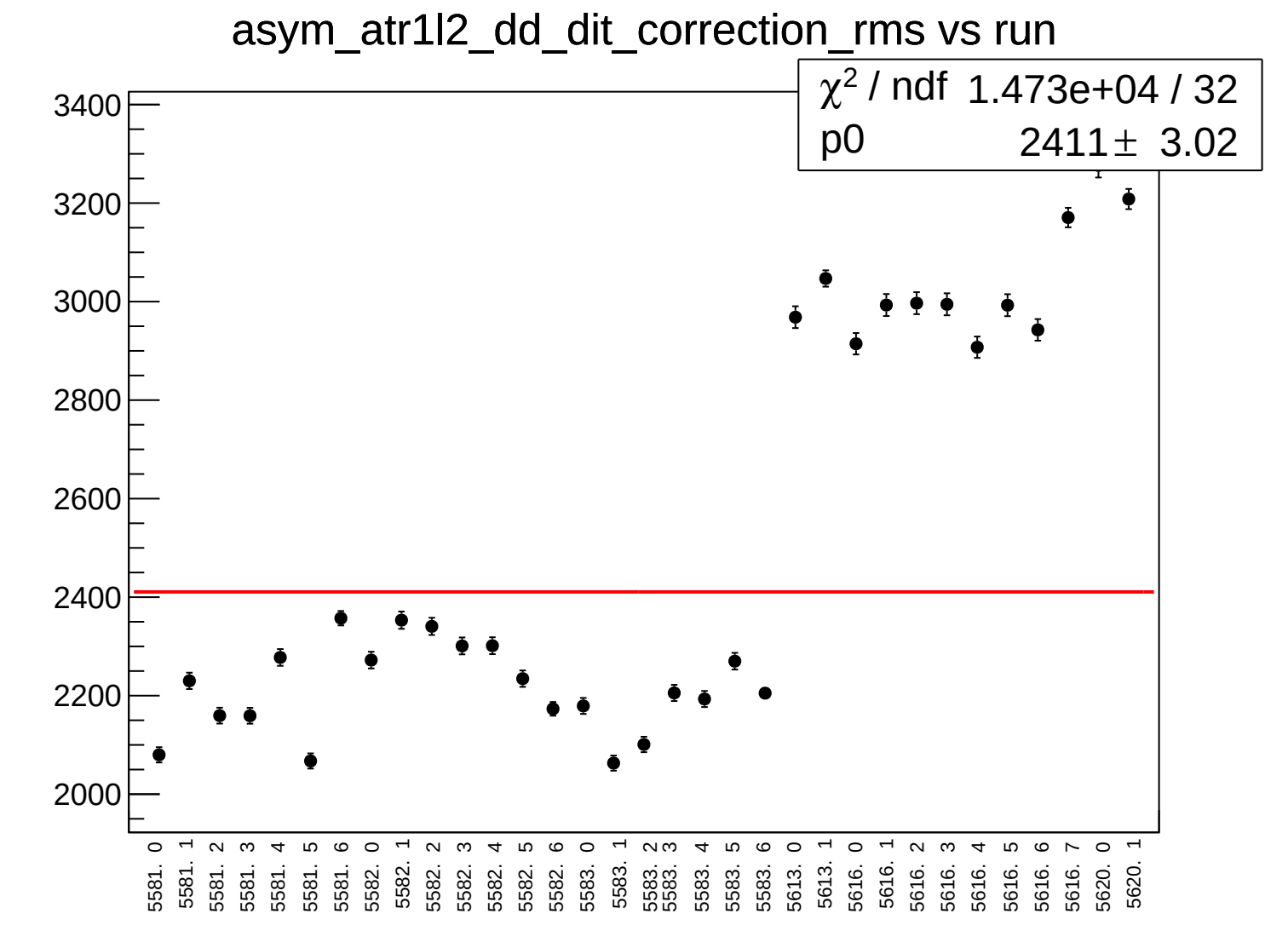

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 9615 / 25
p0 2347 ± 3.291
3400
3200
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

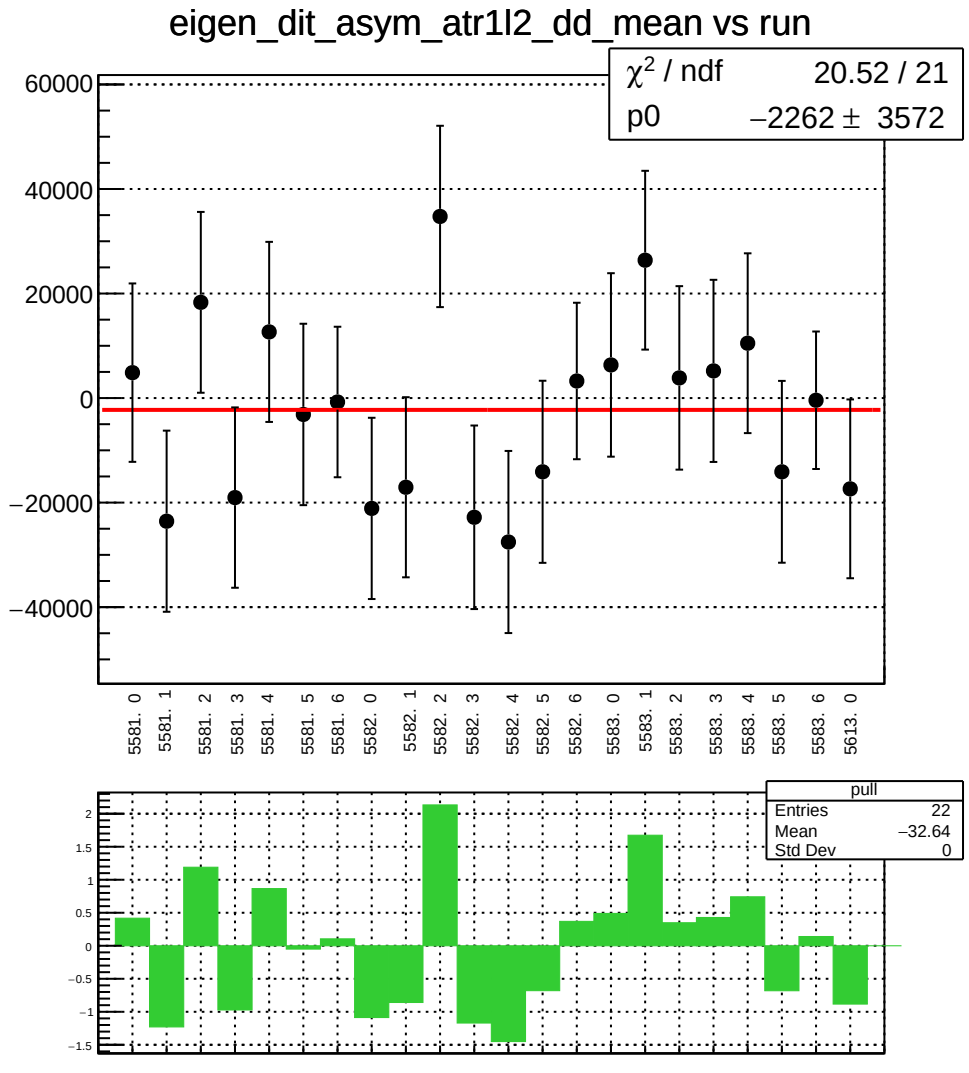

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 20.52 / 21
p0 −2262 ± 3572
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean −32.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

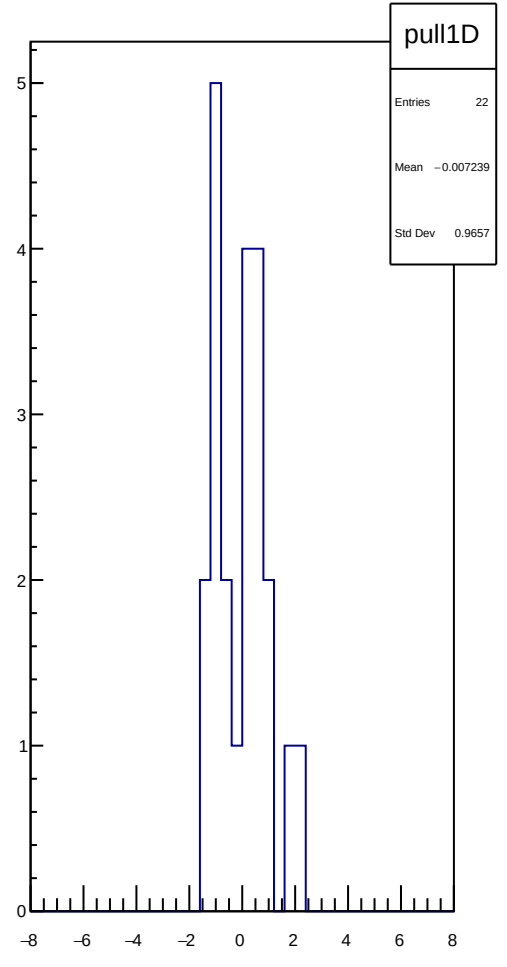

pull1D
Entries 22
Mean −0.007239
Std Dev 0.9657
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

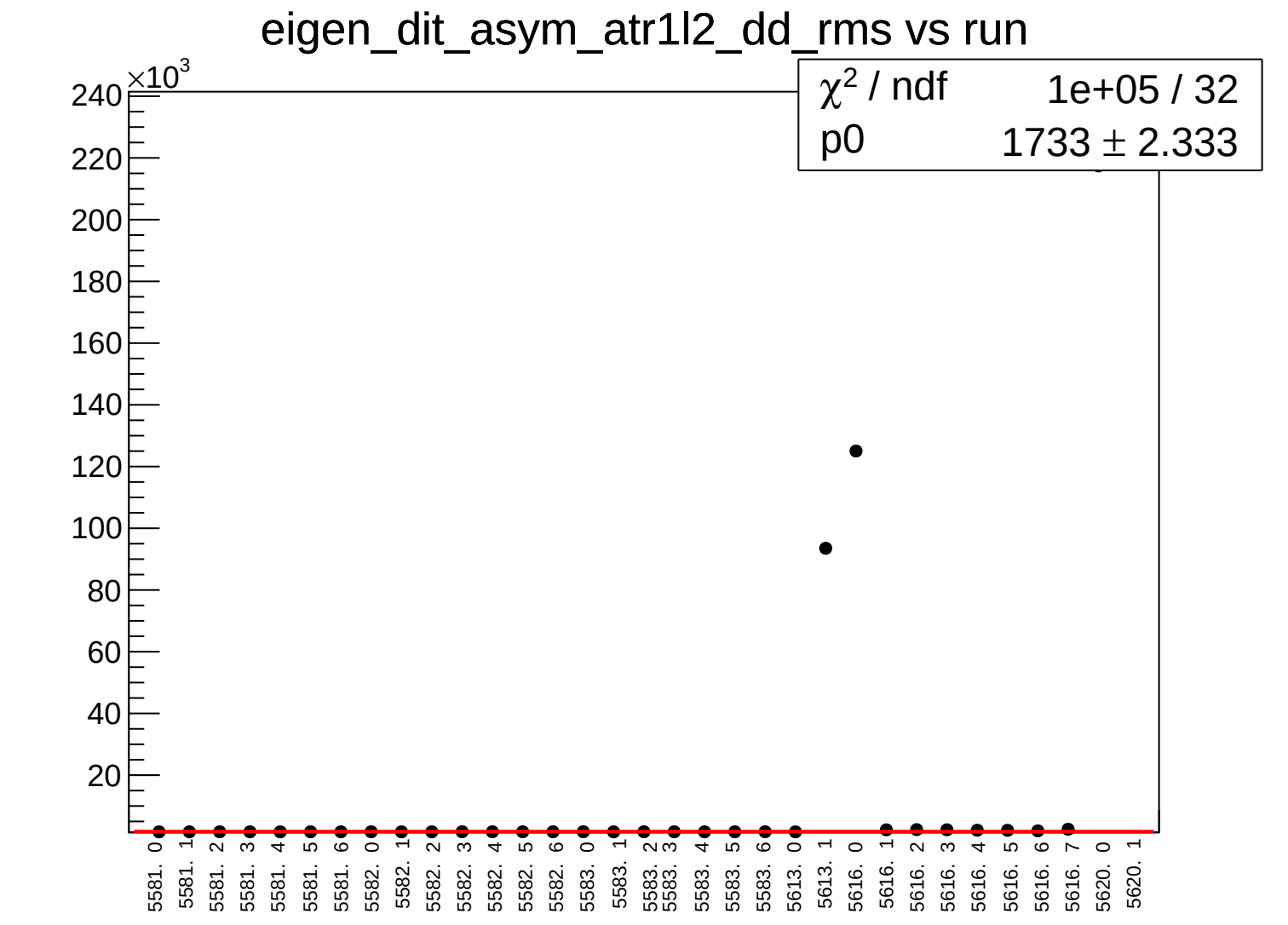

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 1e+05 / 32
p0 1733 ± 2.333
×10³
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

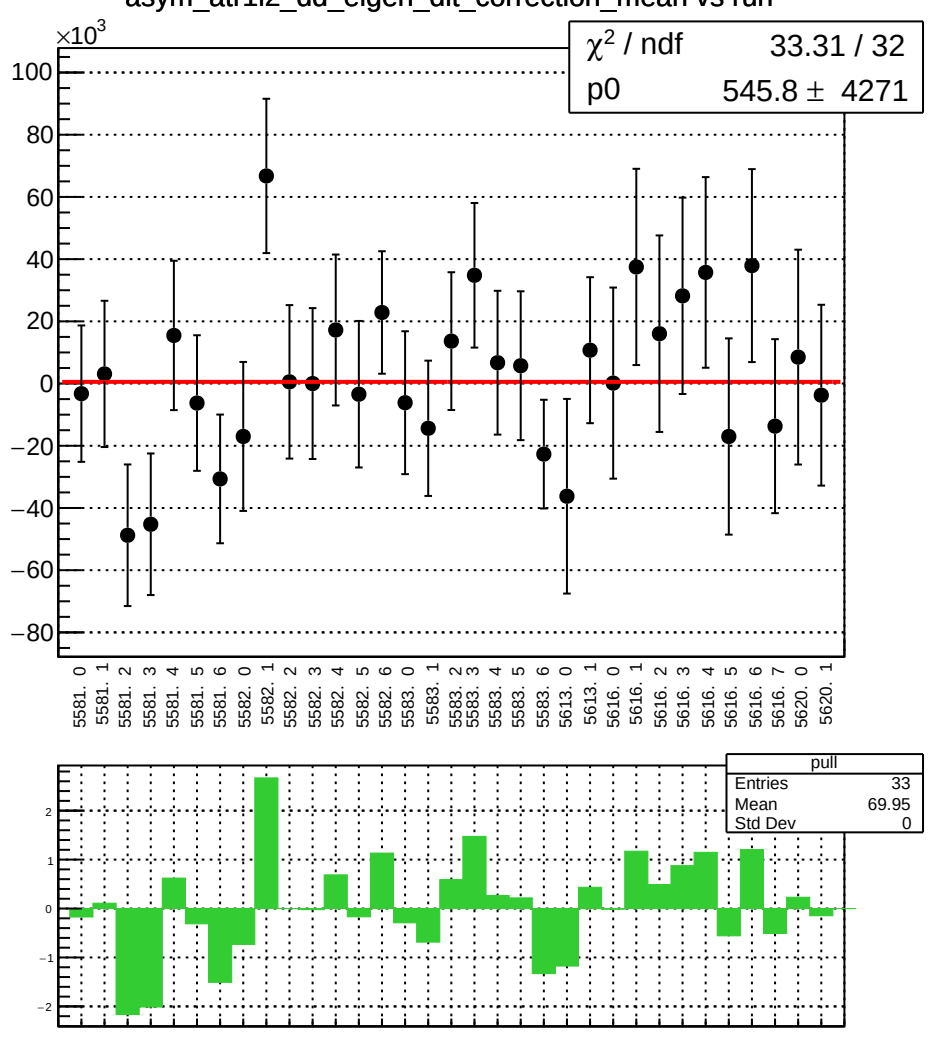

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 33.31 / 32
p0 545.8 ± 4271
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 69.95
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.04606
Std Dev 1.004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

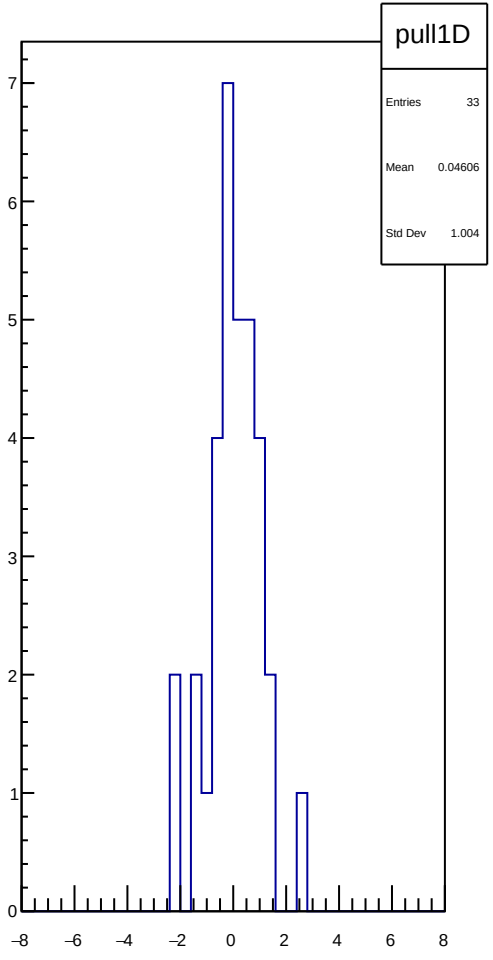

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1.473e+04 / 32
p0 2411 ± 3.02
3400
3200
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

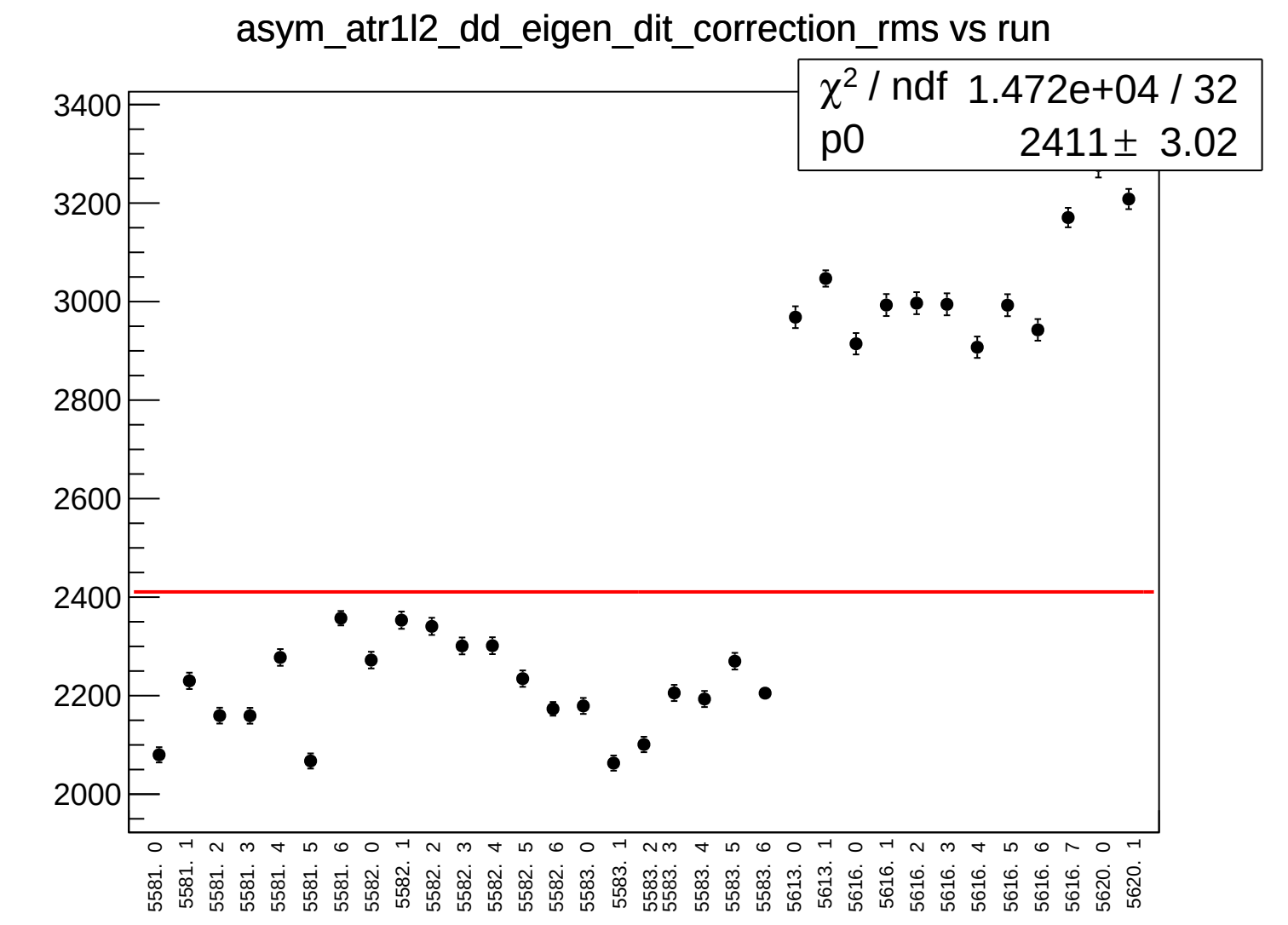

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 20.52 / 21
p0 −2262 ± 3572
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean −32.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

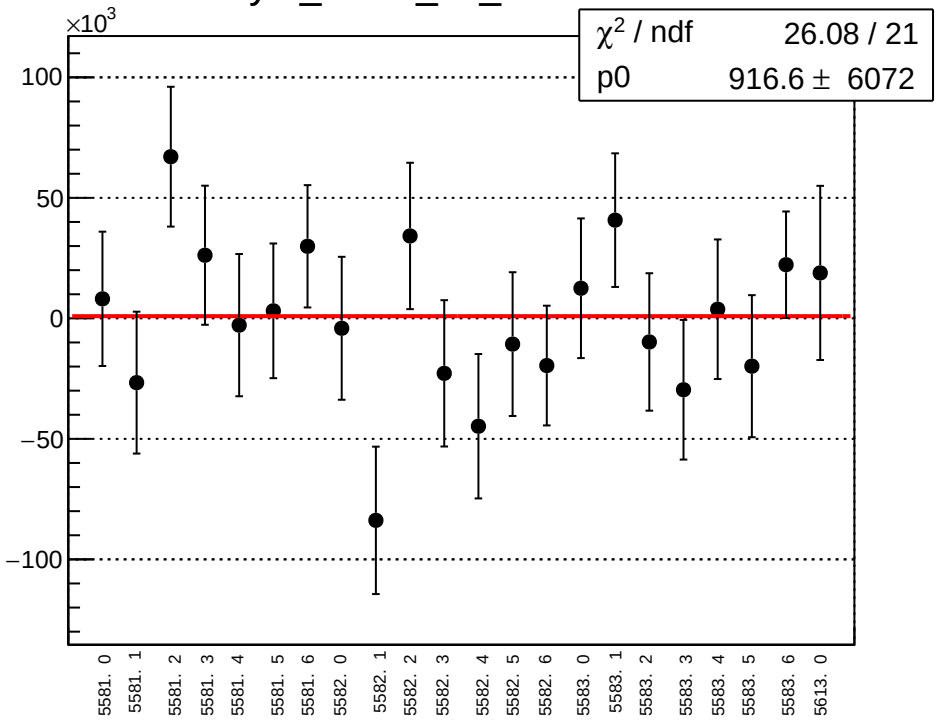

pull1D
Entries 22
Mean −0.007239
Std Dev 0.9657
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

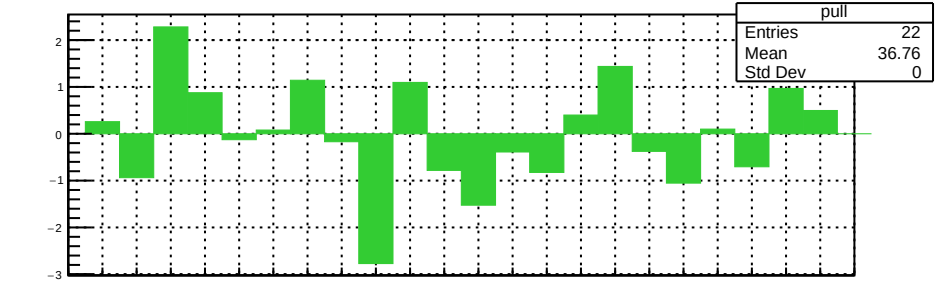

eigen_dit_asym_atr1l2_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1e+05 / 32
p0 1733 ± 2.333
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

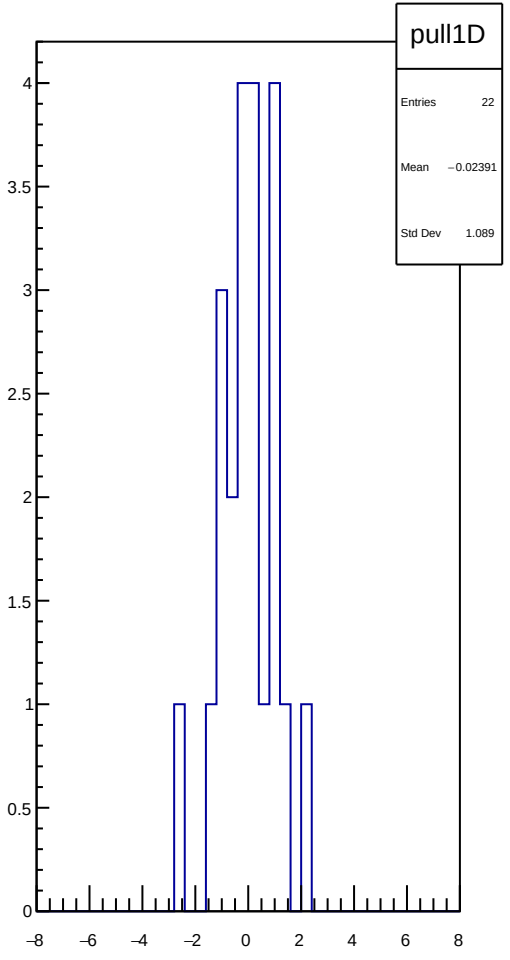

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 33.31 / 32
p0 545.8 ± 4271
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 69.95
Std Dev 0
2
1
0
−1
−2

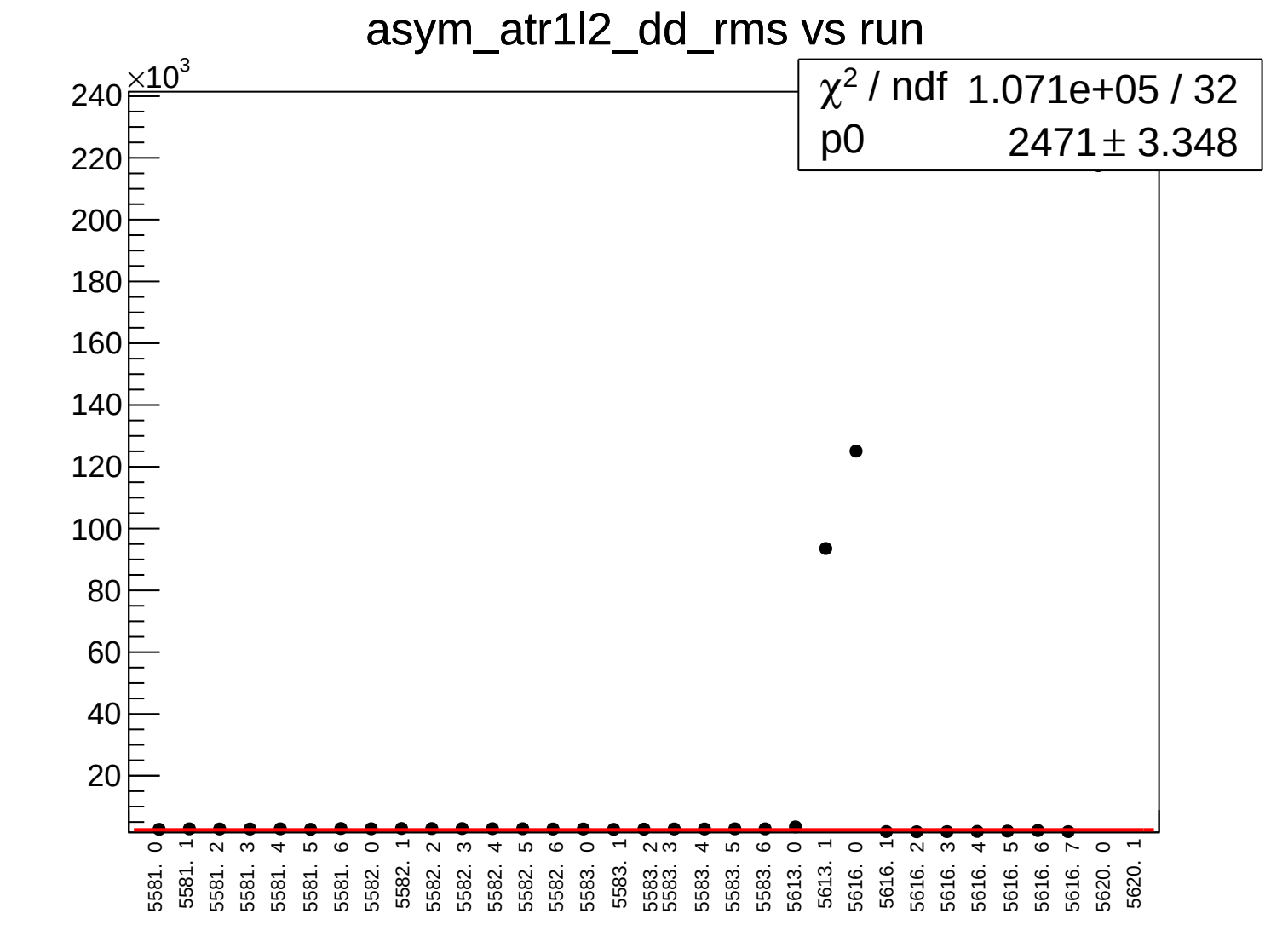

pull1D
Entries 33
Mean 0.04606
Std Dev 1.004
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

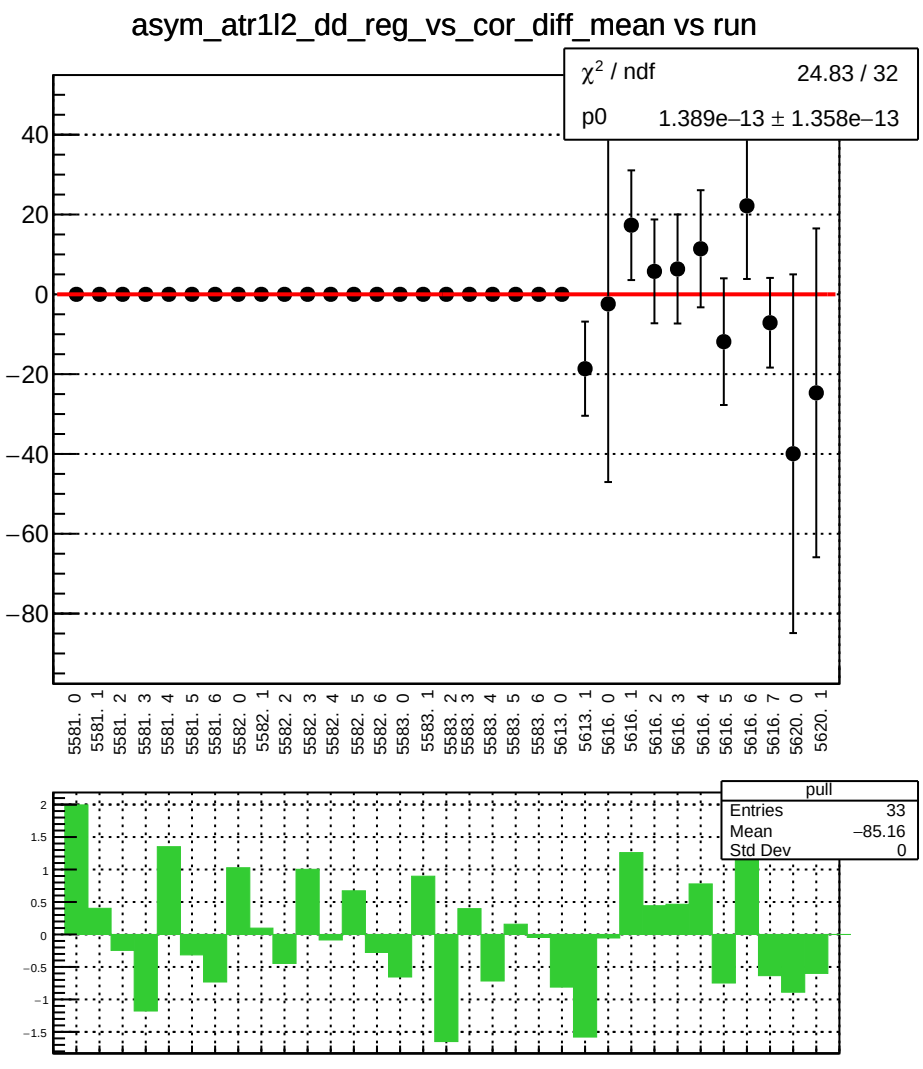

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.472e+04 / 32
p0 2411 ± 3.02
3400
3200
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

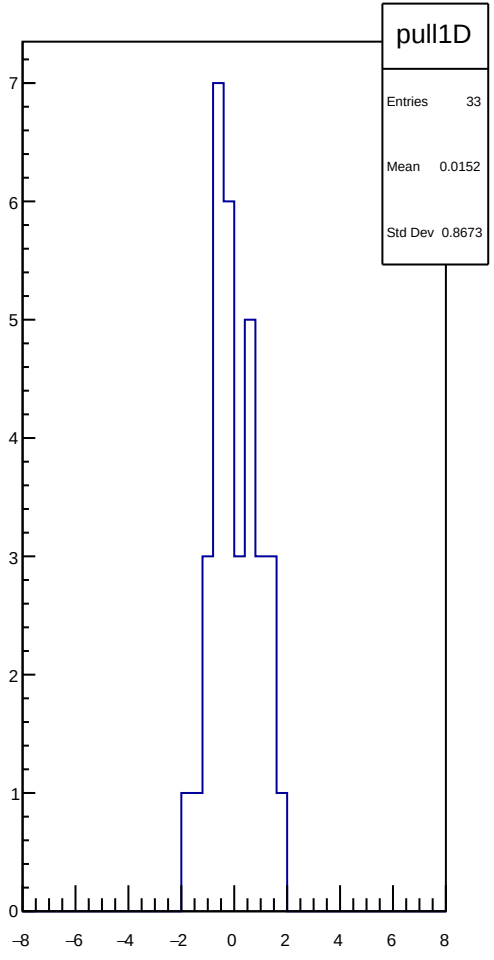

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 26.08 / 21
p0 916.6 ± 6072
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

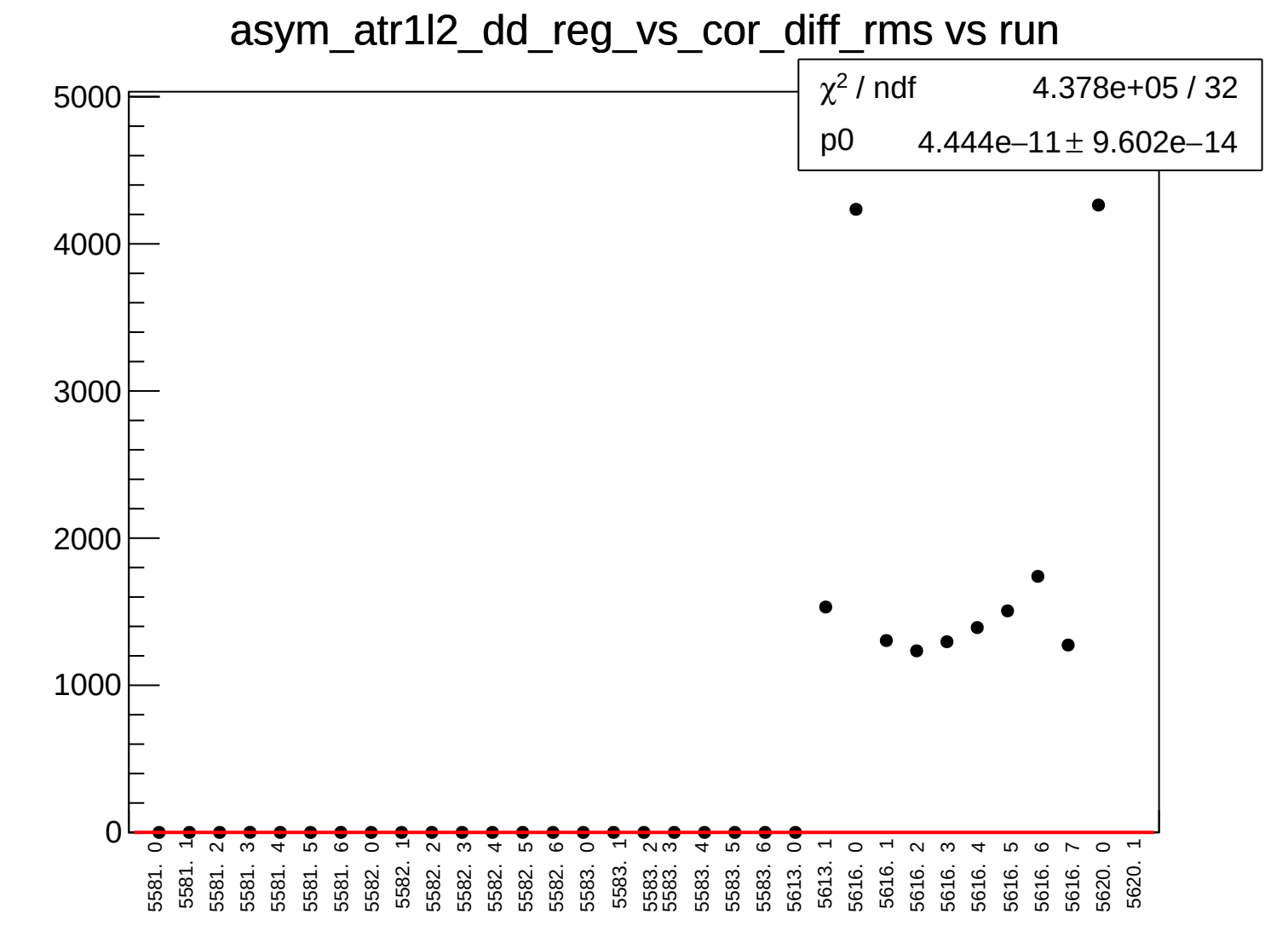

pull
Entries 22
Mean 36.76
Std Dev 0
2
1
0
−1
−2
−3

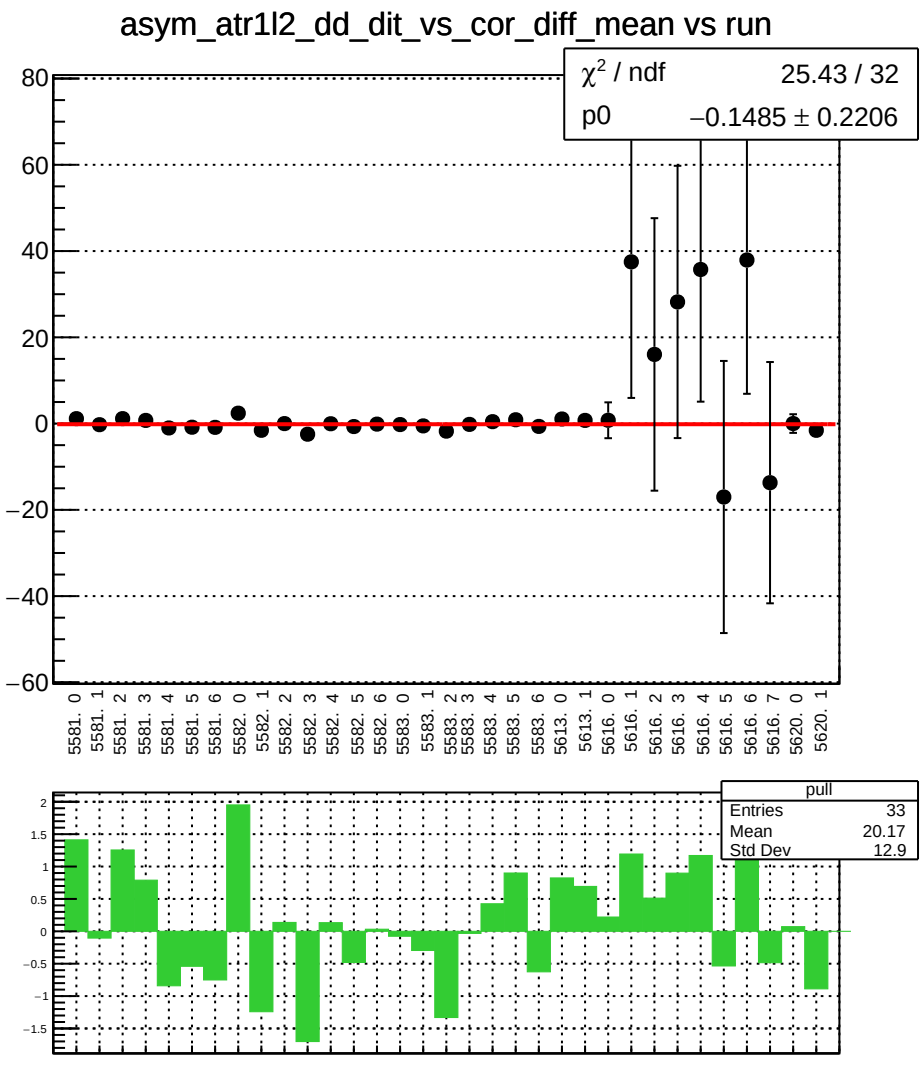

pull1D
Entries 22
Mean −0.02391
Std Dev 1.089
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

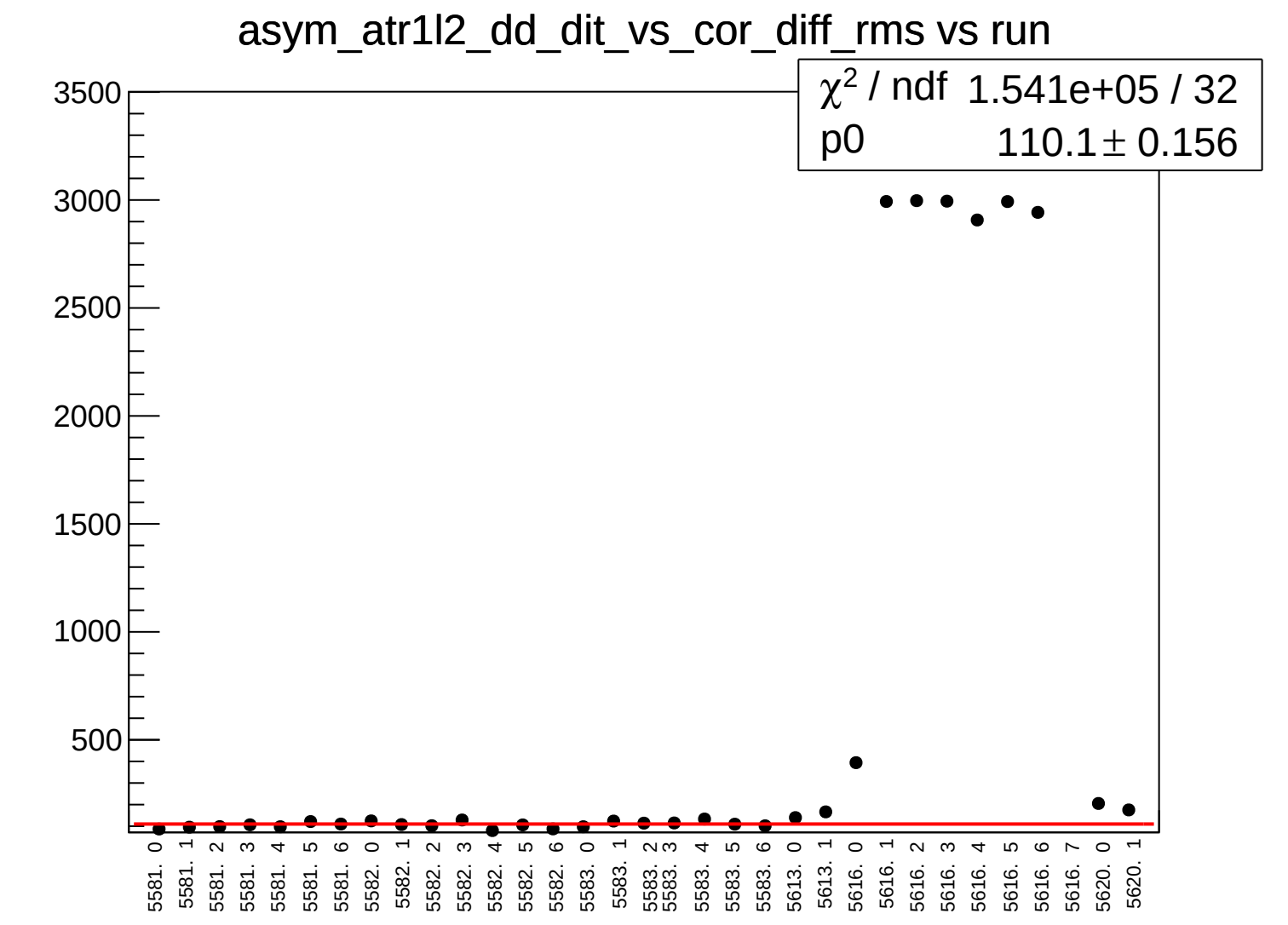

asym_atr1l2_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1.071e+05 / 32
p0 2471 ± 3.348
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

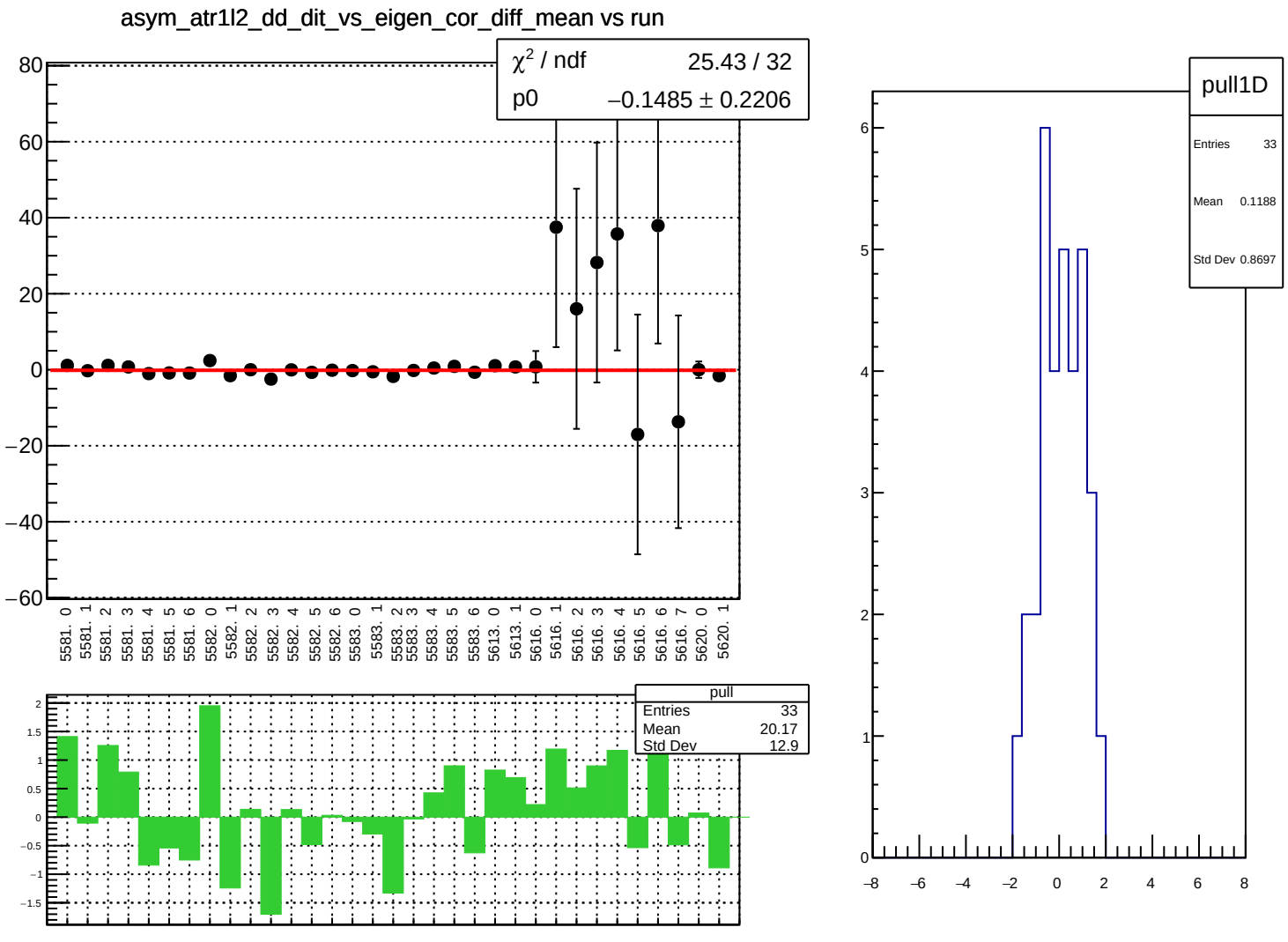

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.83 / 32
p0 1.389e−13 ± 1.358e−13
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −85.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

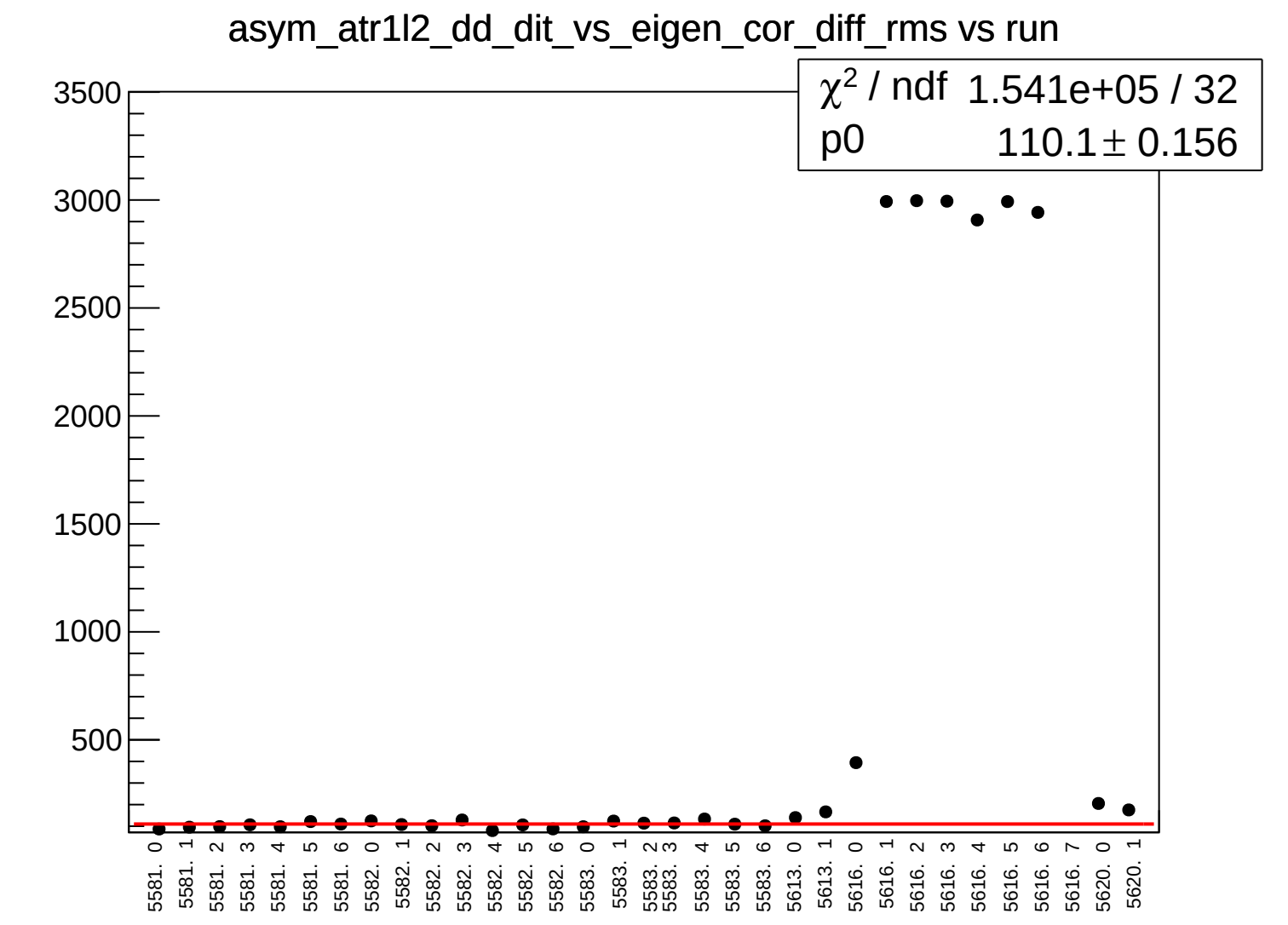

pull1D
Entries 33
Mean 0.0152
Std Dev 0.8673
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

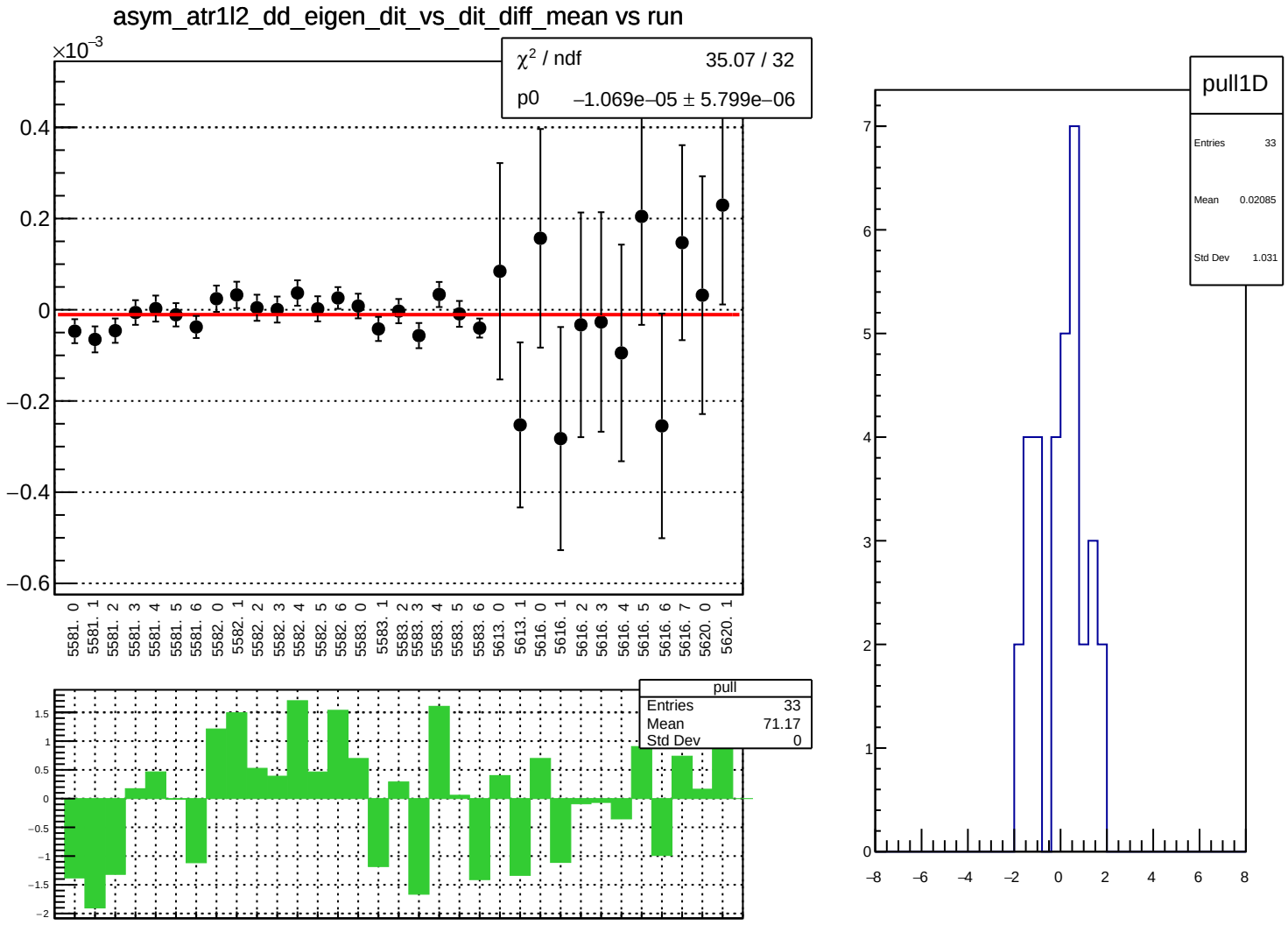

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.378e+05 / 32
p0 4.444e−11 ± 9.602e−14
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

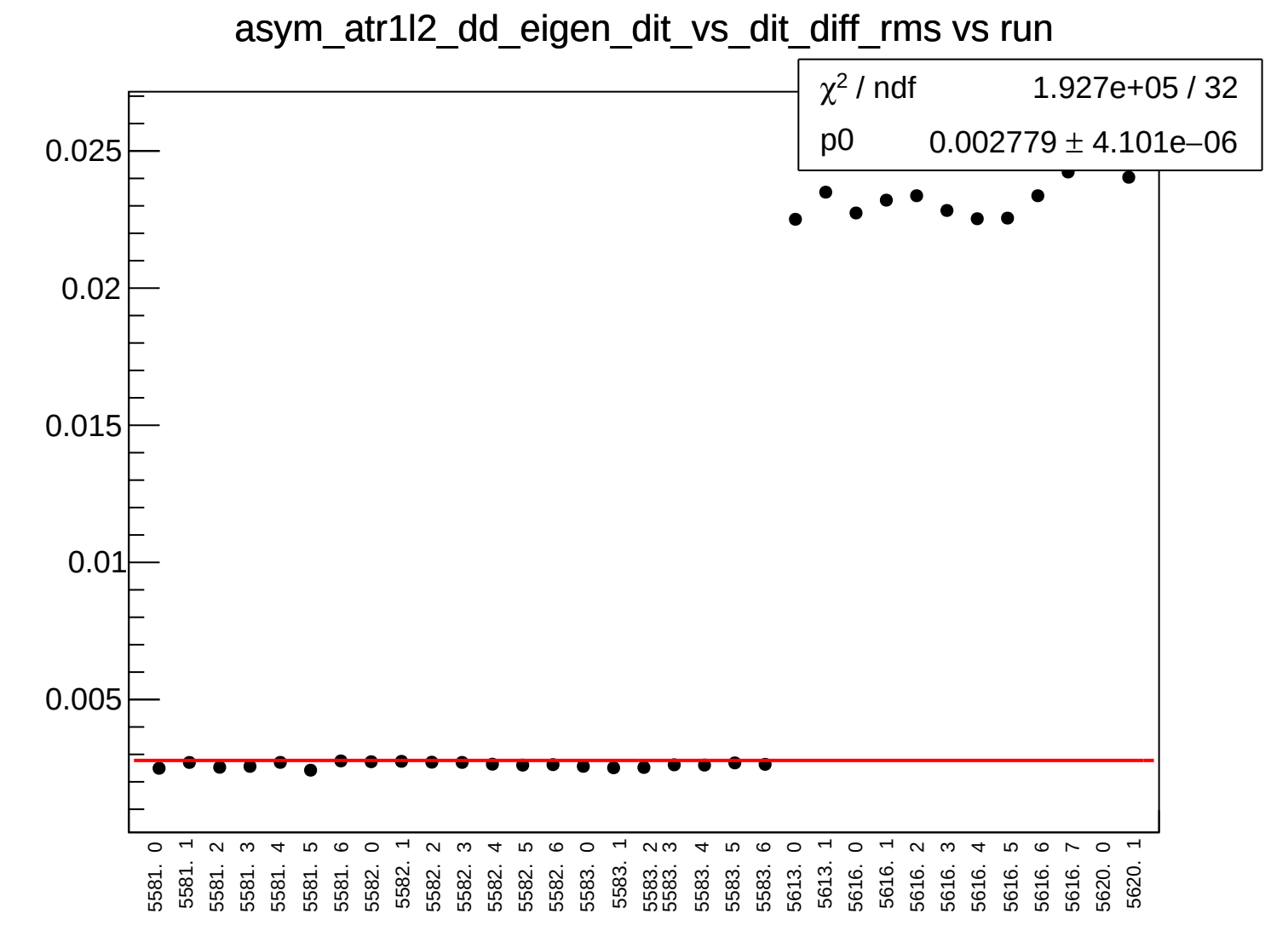

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 25.43 / 32
p0 −0.1485 ± 0.2206
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.17
Std Dev 12.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1188
Std Dev 0.8697
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

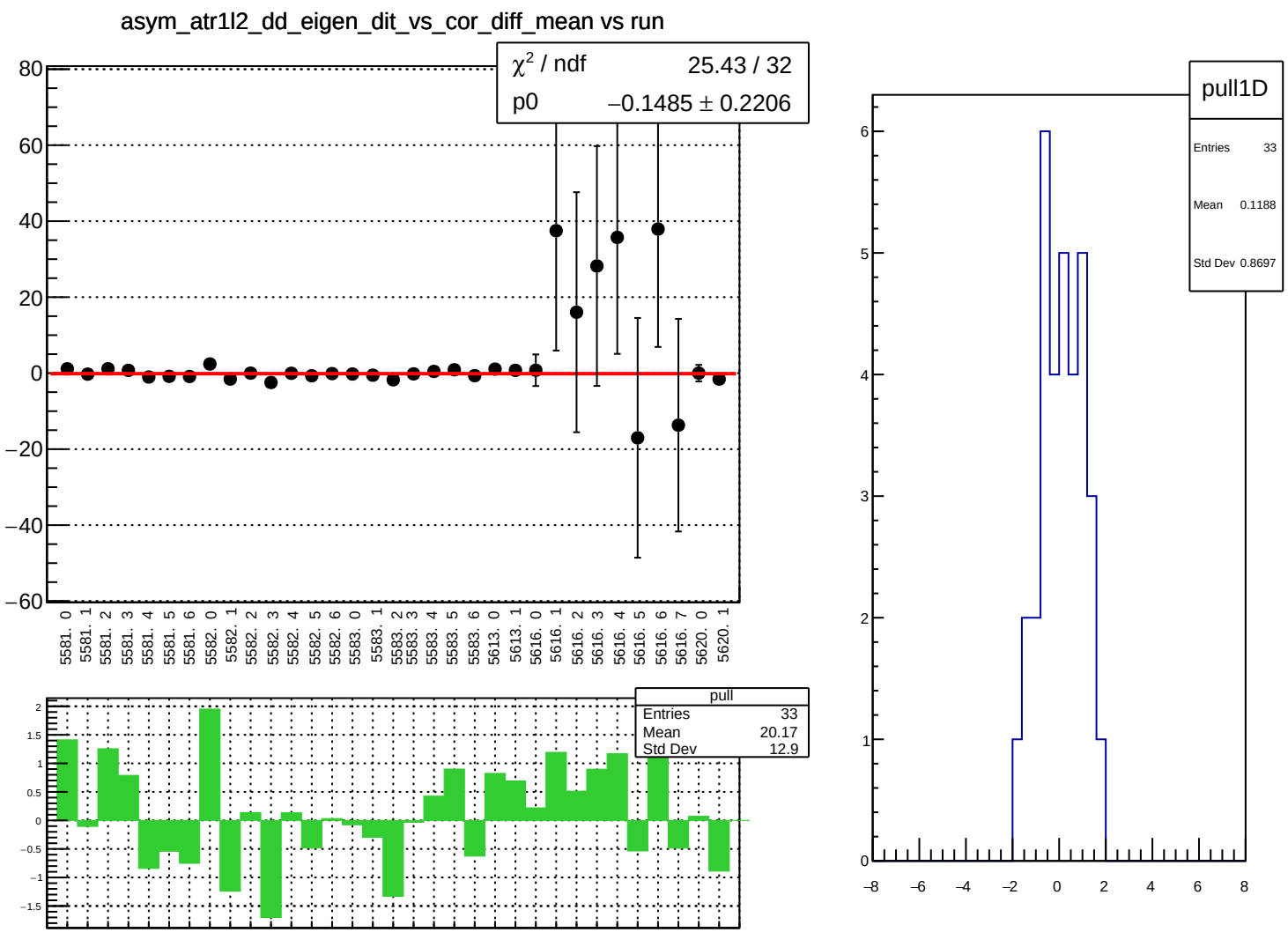

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.541e+05 / 32
p0 110.1 ± 0.156
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

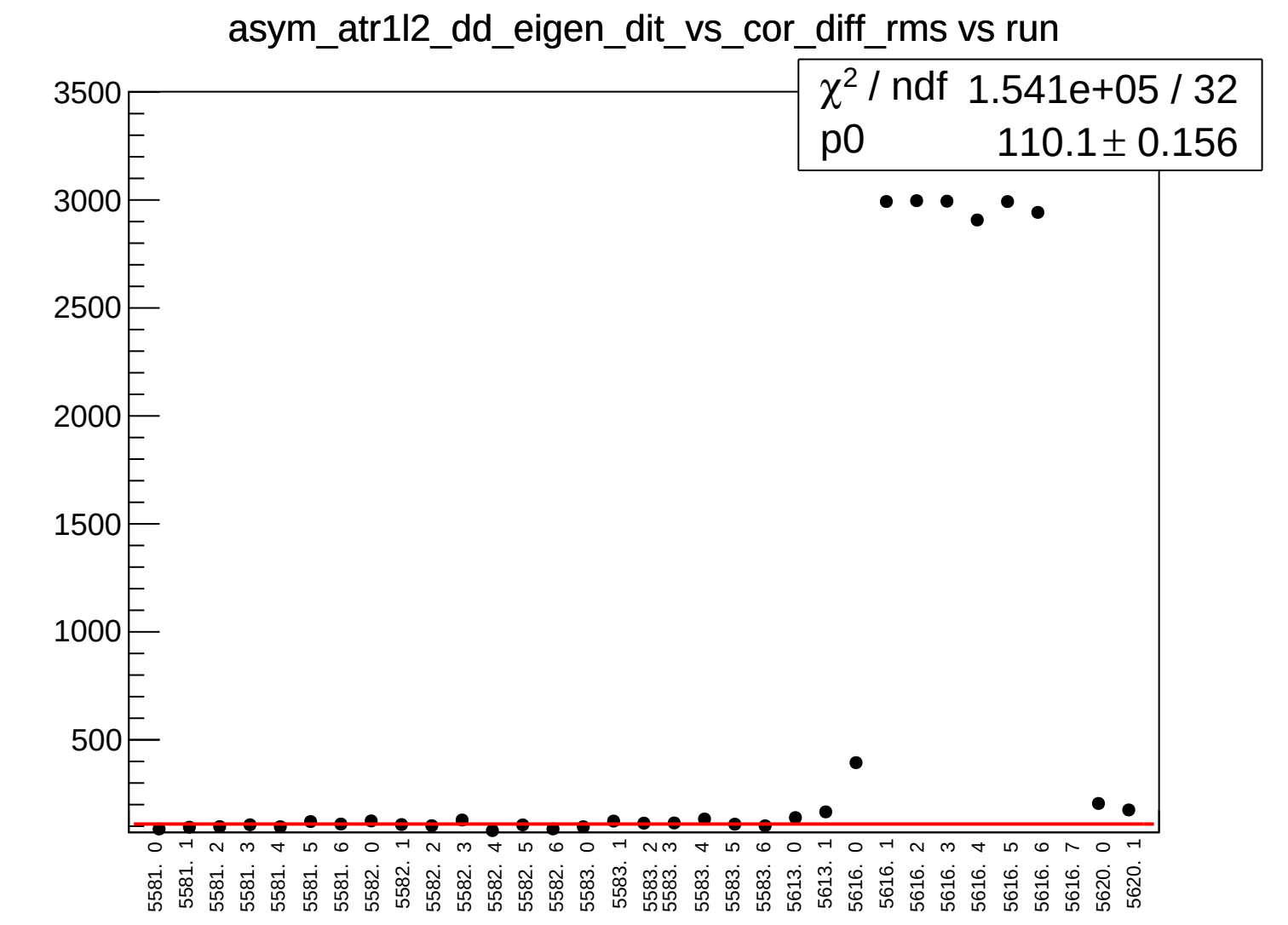

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.43 / 32
p0 −0.1485 ± 0.2206
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.17
Std Dev 12.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1188
Std Dev 0.8697
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

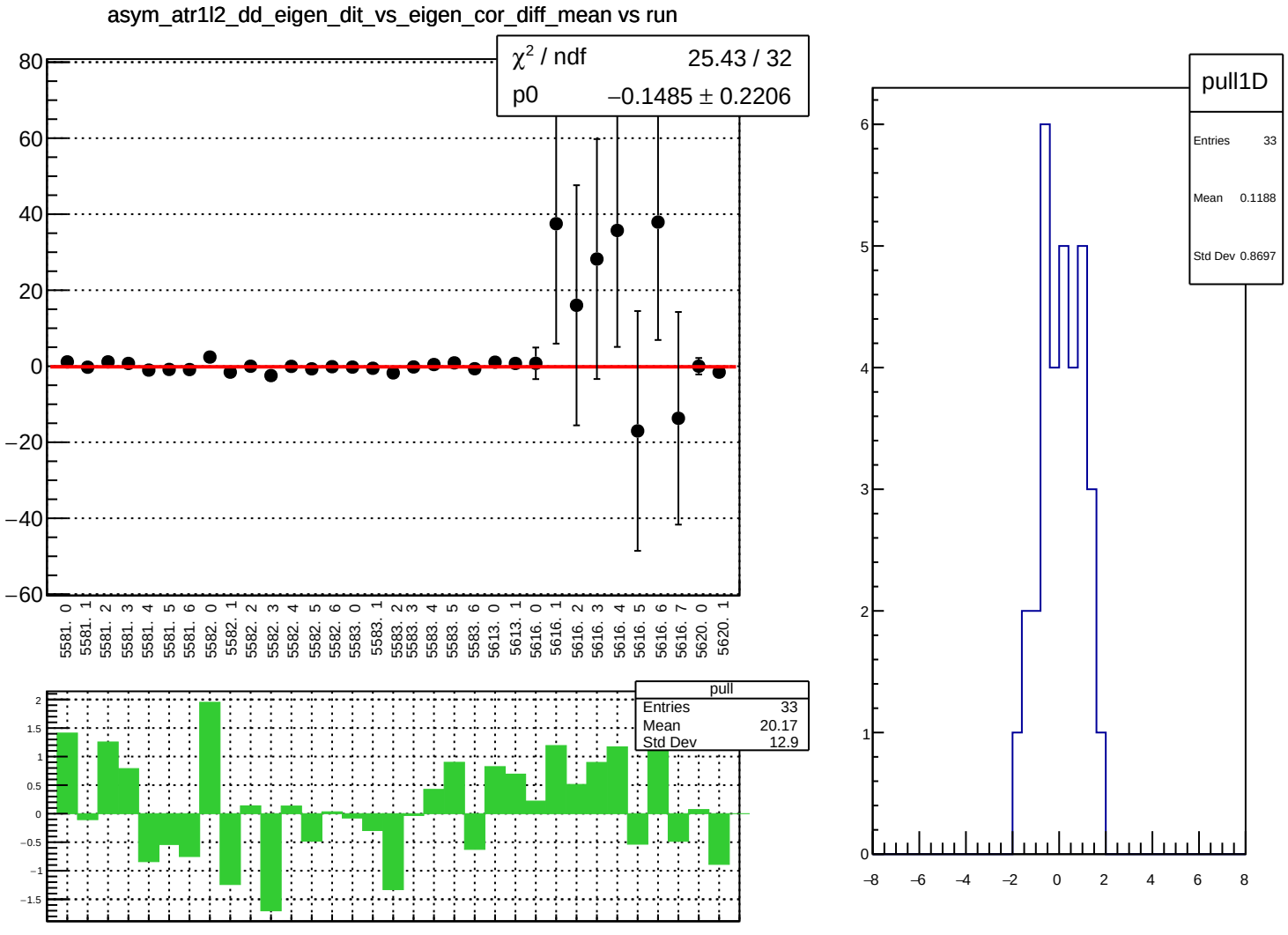

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.541e+05 / 32
p0 110.1 ± 0.156
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

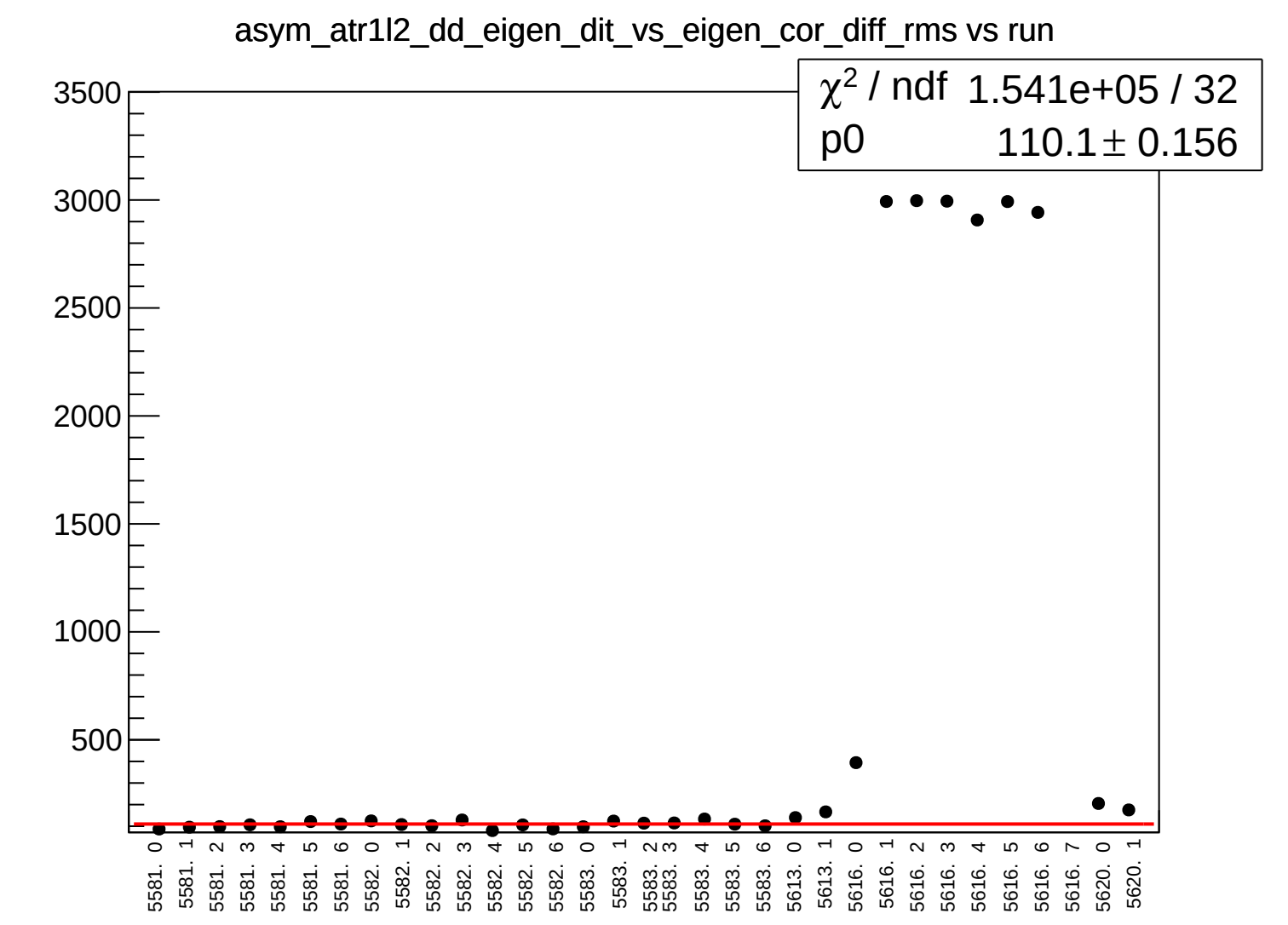

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.07 / 32
p0 −1.069e−05 ± 5.799e−06
0.4
0.2
0
−0.2
−0.4
−0.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 71.17
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.02085
Std Dev 1.031
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

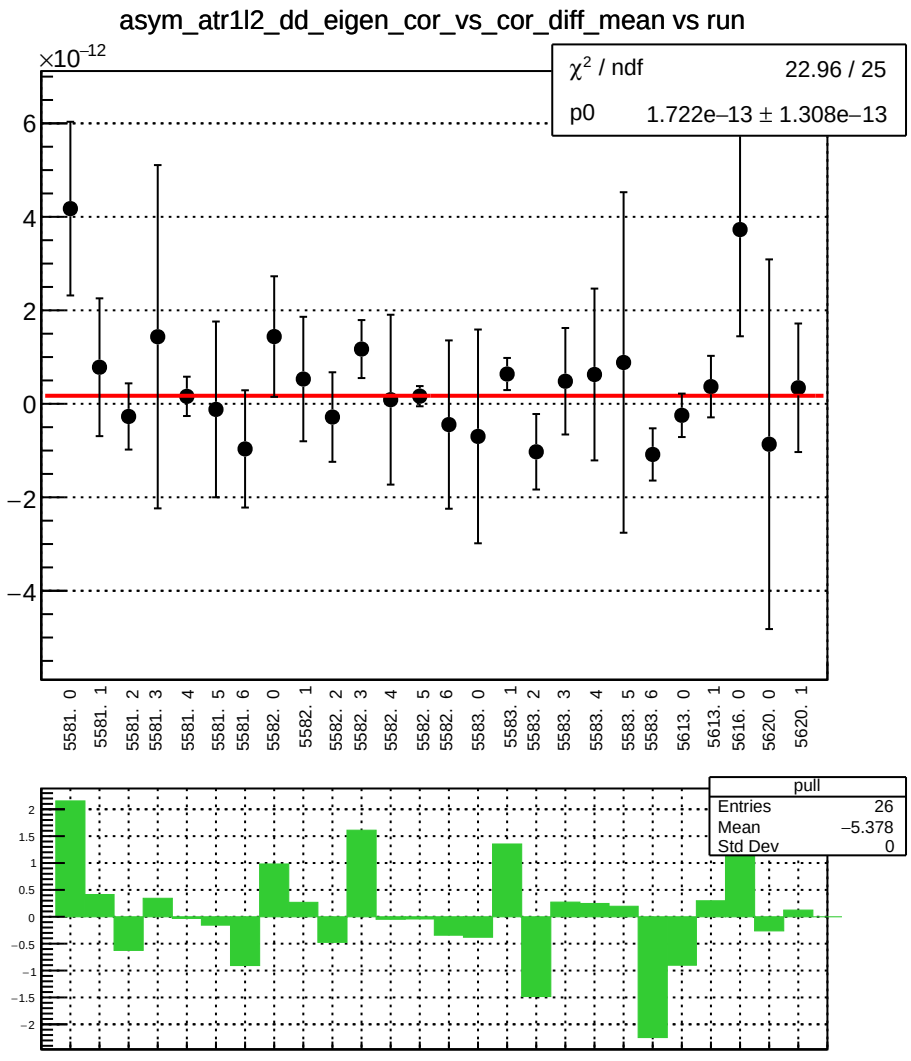

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.927e+05 / 32
p0 0.002779 ± 4.101e−06
0.025
0.02
0.015
0.01
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

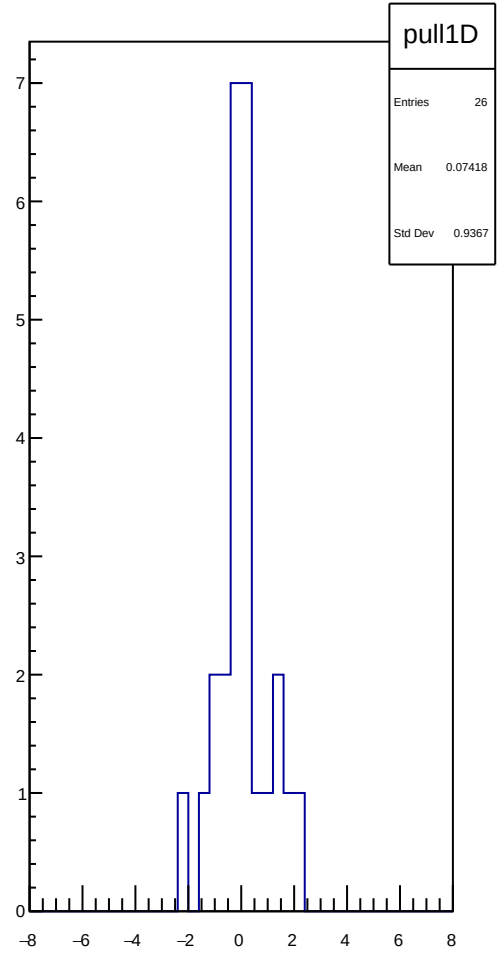

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.43 / 32
p0 −0.1485 ± 0.2206
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.17
Std Dev 12.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1188
Std Dev 0.8697
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

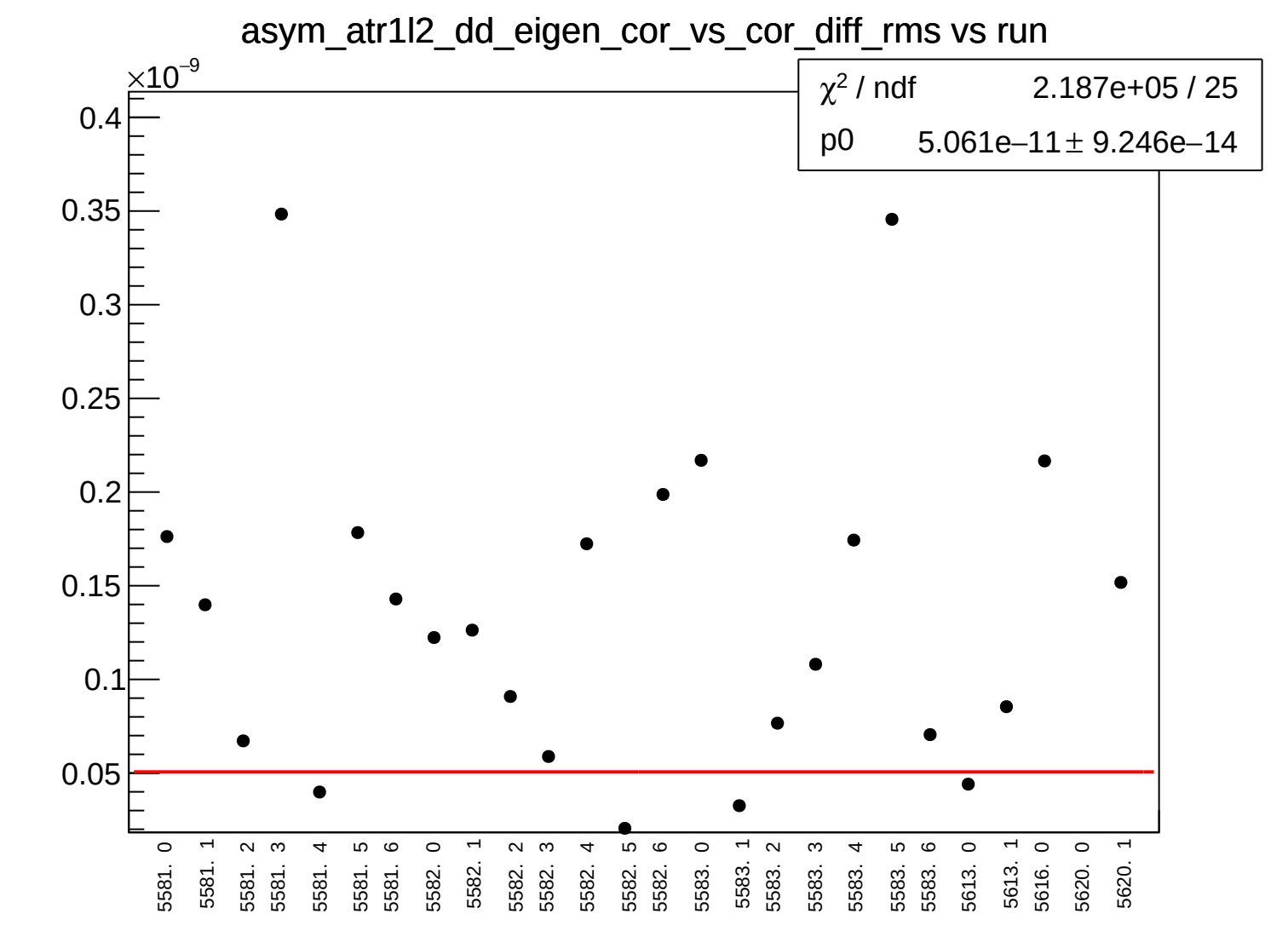

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.541e+05 / 32
p0 110.1 ± 0.156
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

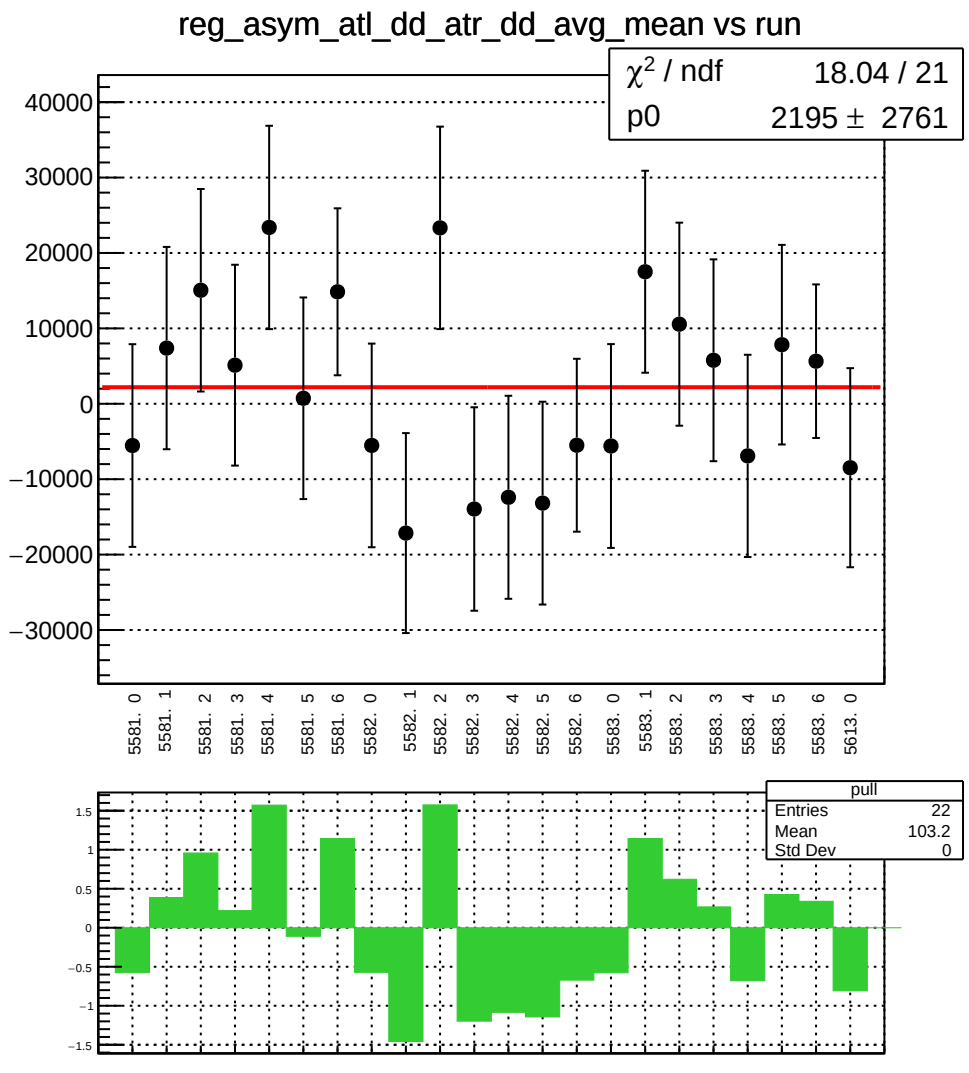

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.43 / 32
p0 −0.1485 ± 0.2206
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.17
Std Dev 12.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1188
Std Dev 0.8697
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

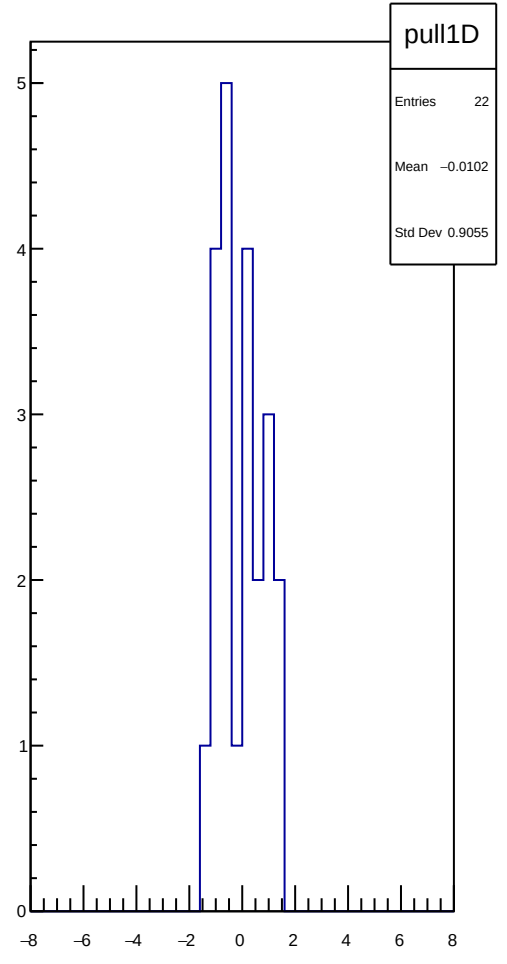

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.541e+05 / 32
p0 110.1 ± 0.156
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

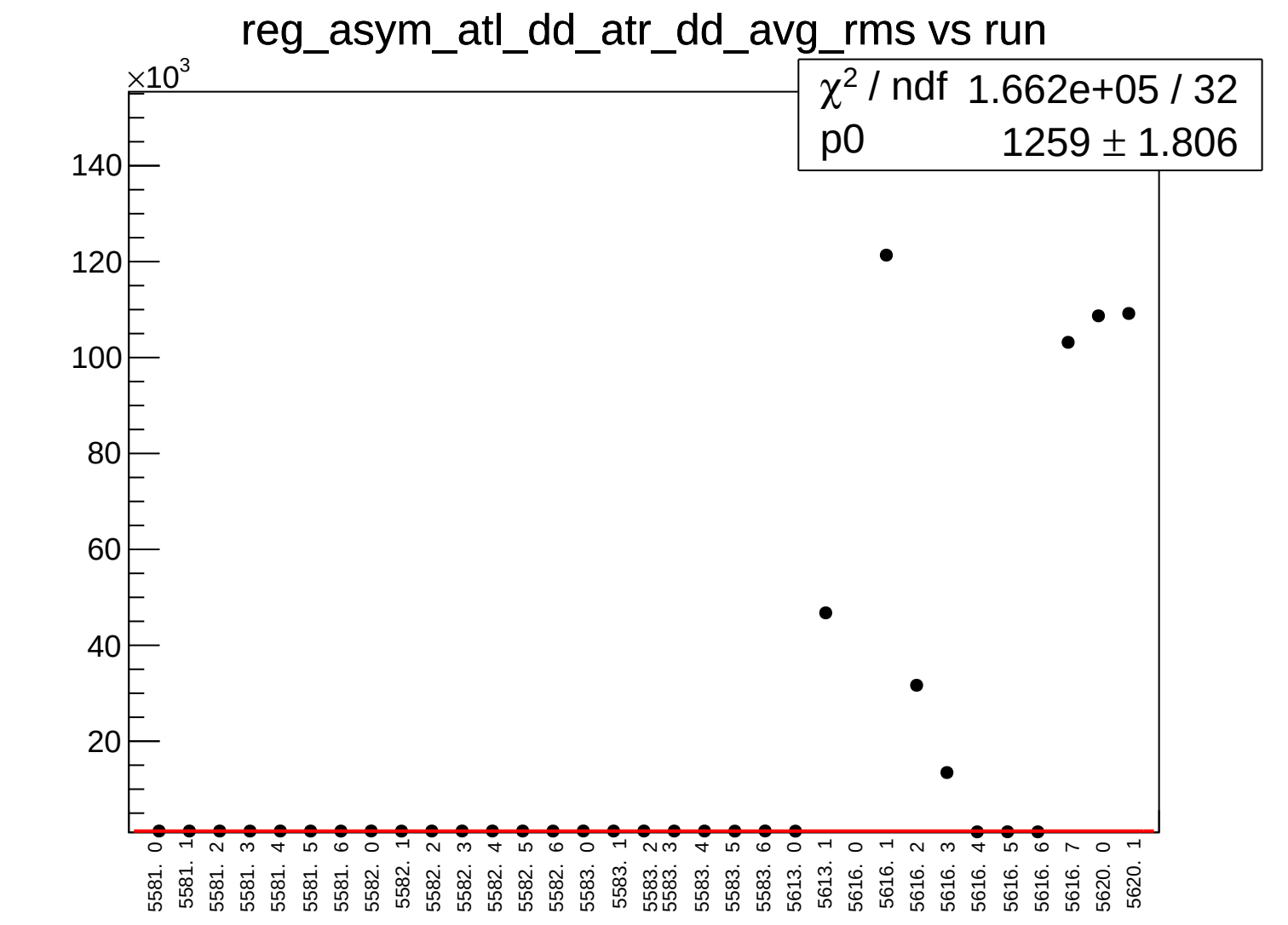

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 22.96 / 25
p0 1.722e−13 ± 1.308e−13
6
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −5.378
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

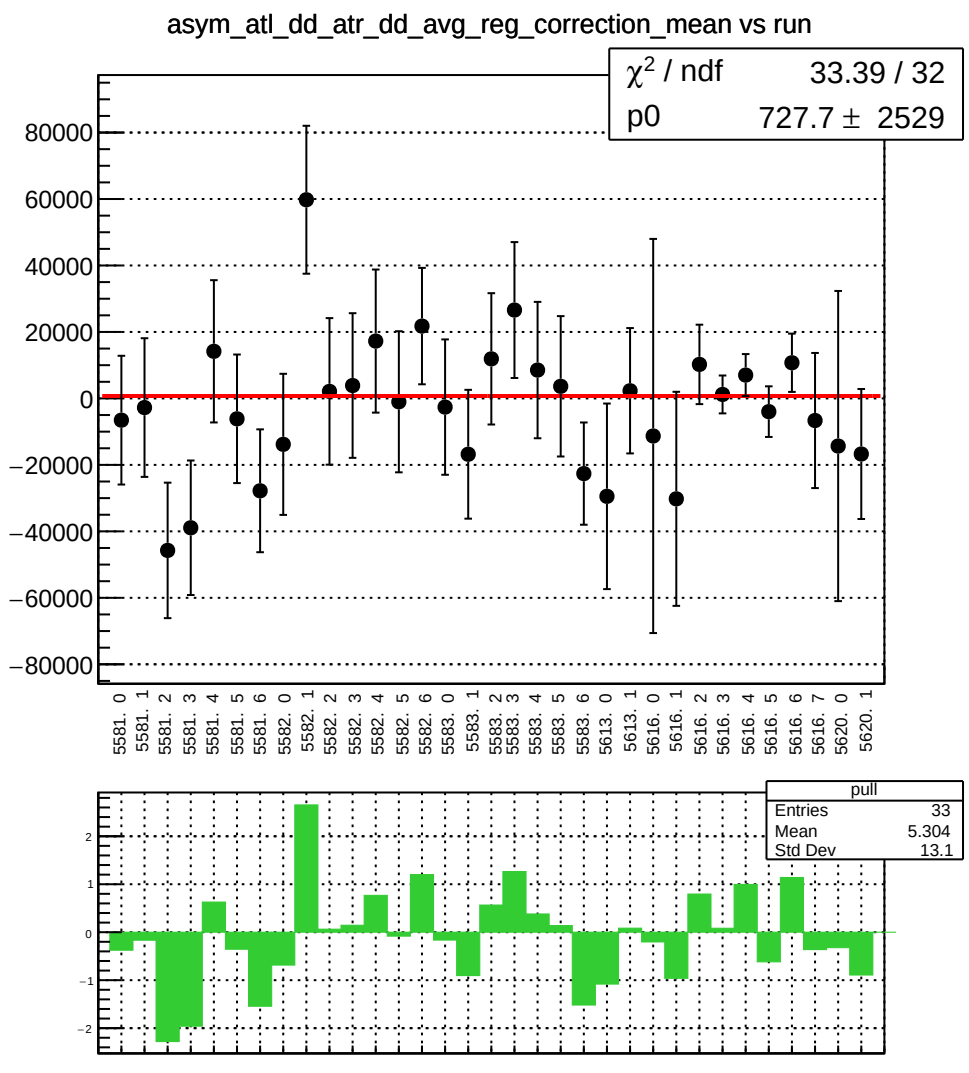

pull1D
Entries 26
Mean 0.07418
Std Dev 0.9367
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

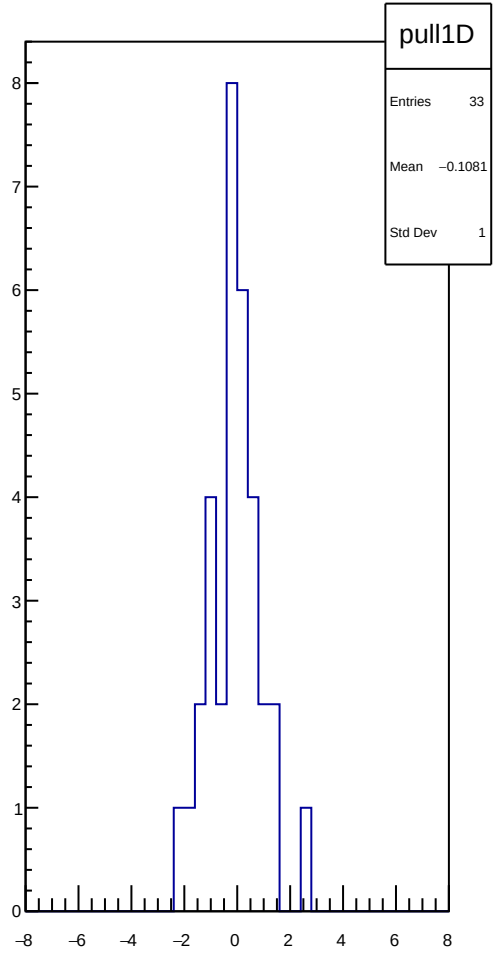

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.187e+05 / 25
p0 5.061e−11 ± 9.246e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

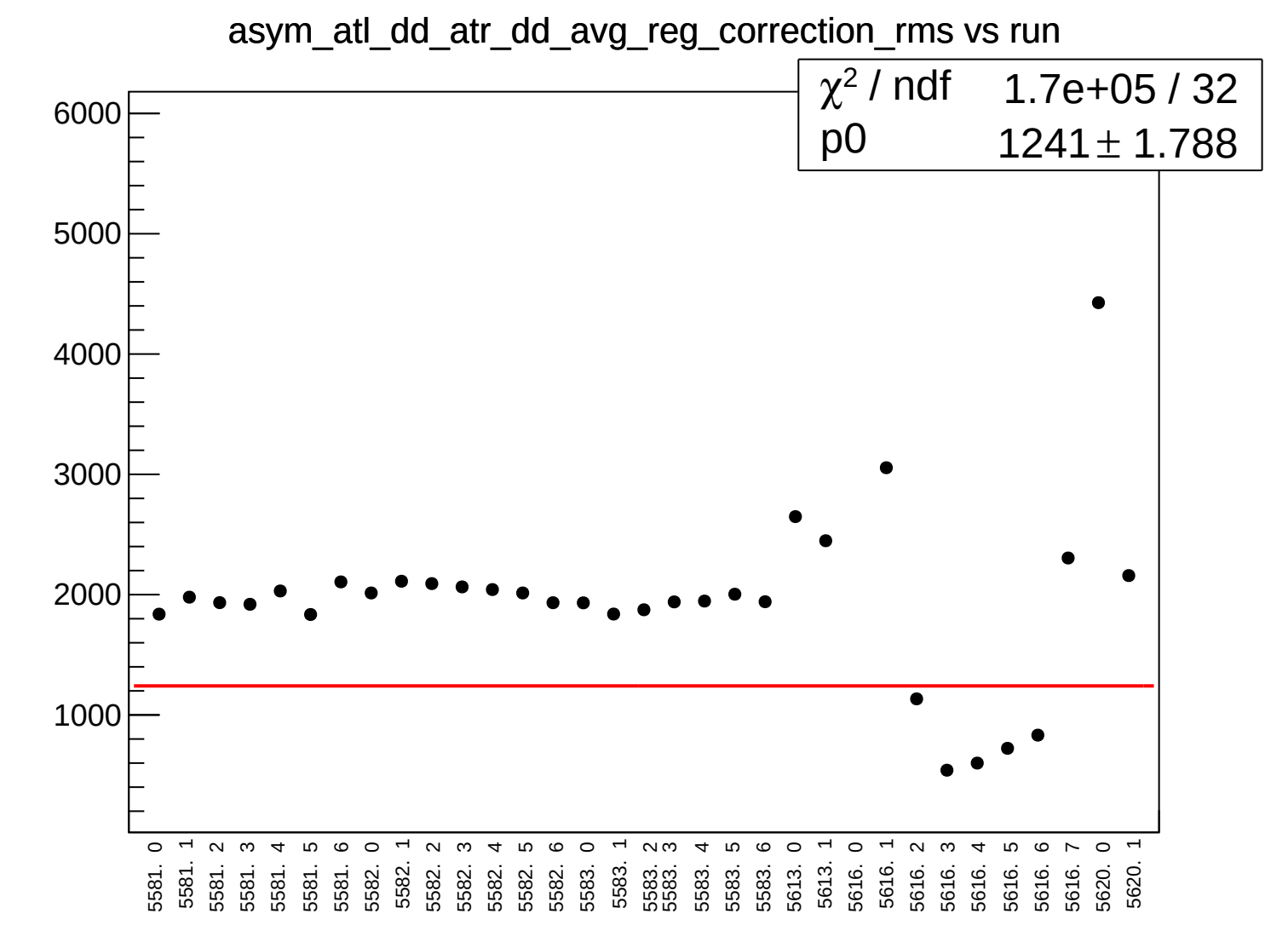

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 18.04 / 21
p0 2195 ± 2761
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 103.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

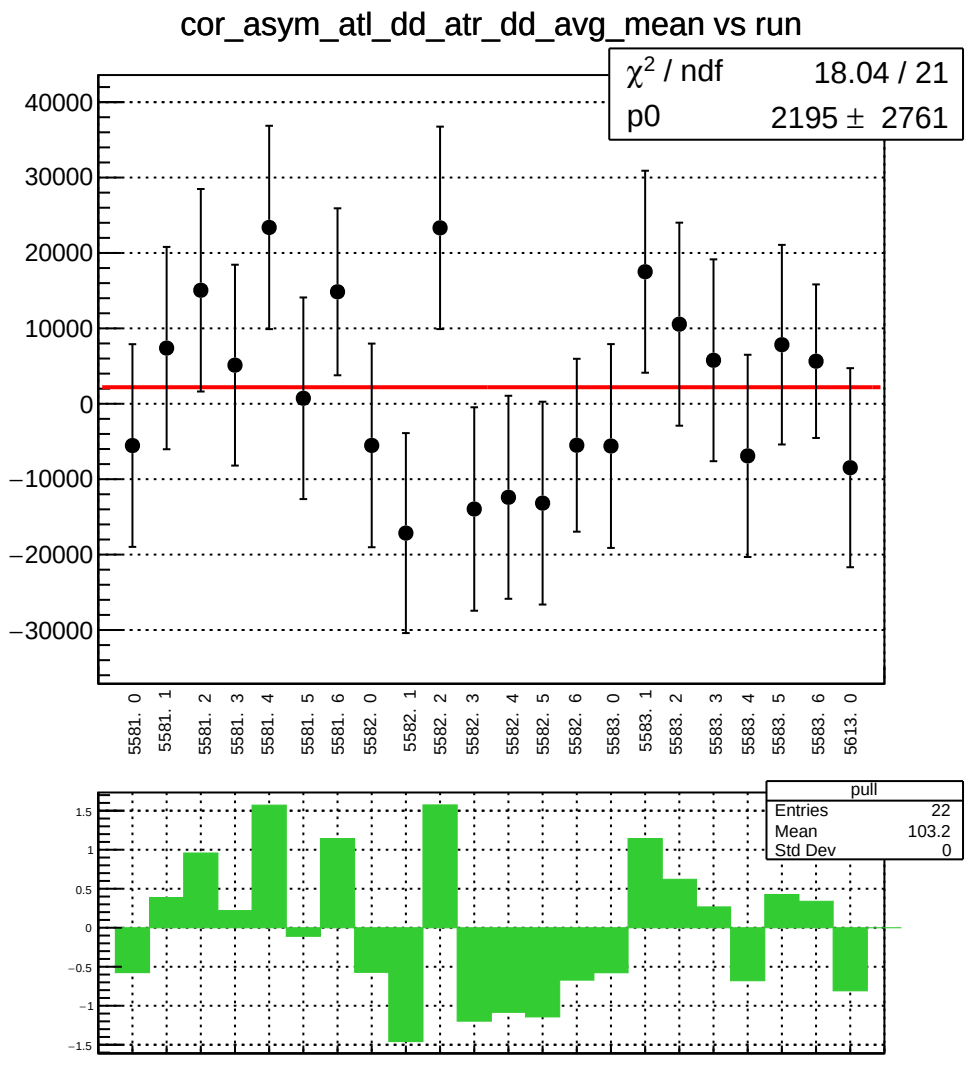

pull1D
Entries 22
Mean −0.0102
Std Dev 0.9055
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

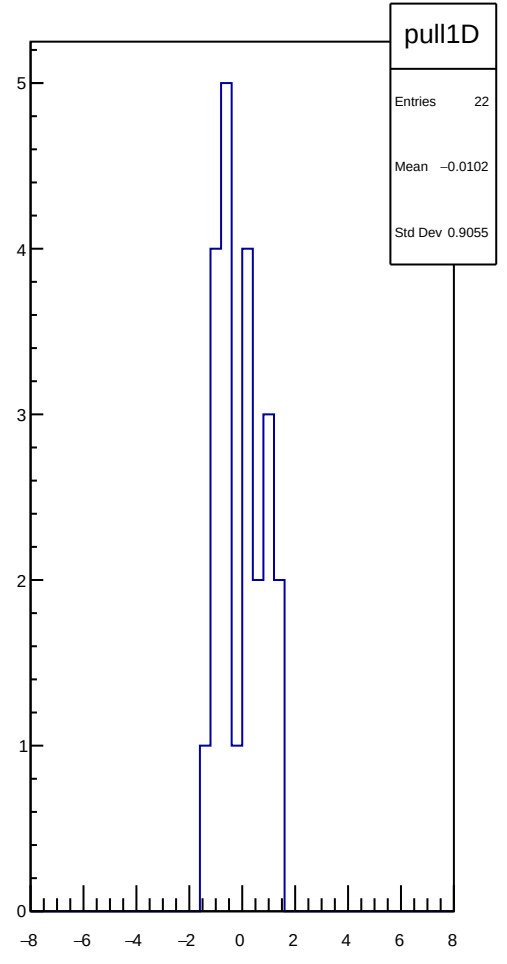

reg_asym_atl_dd_atr_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.662e+05 / 32
p0 1259 ± 1.806
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

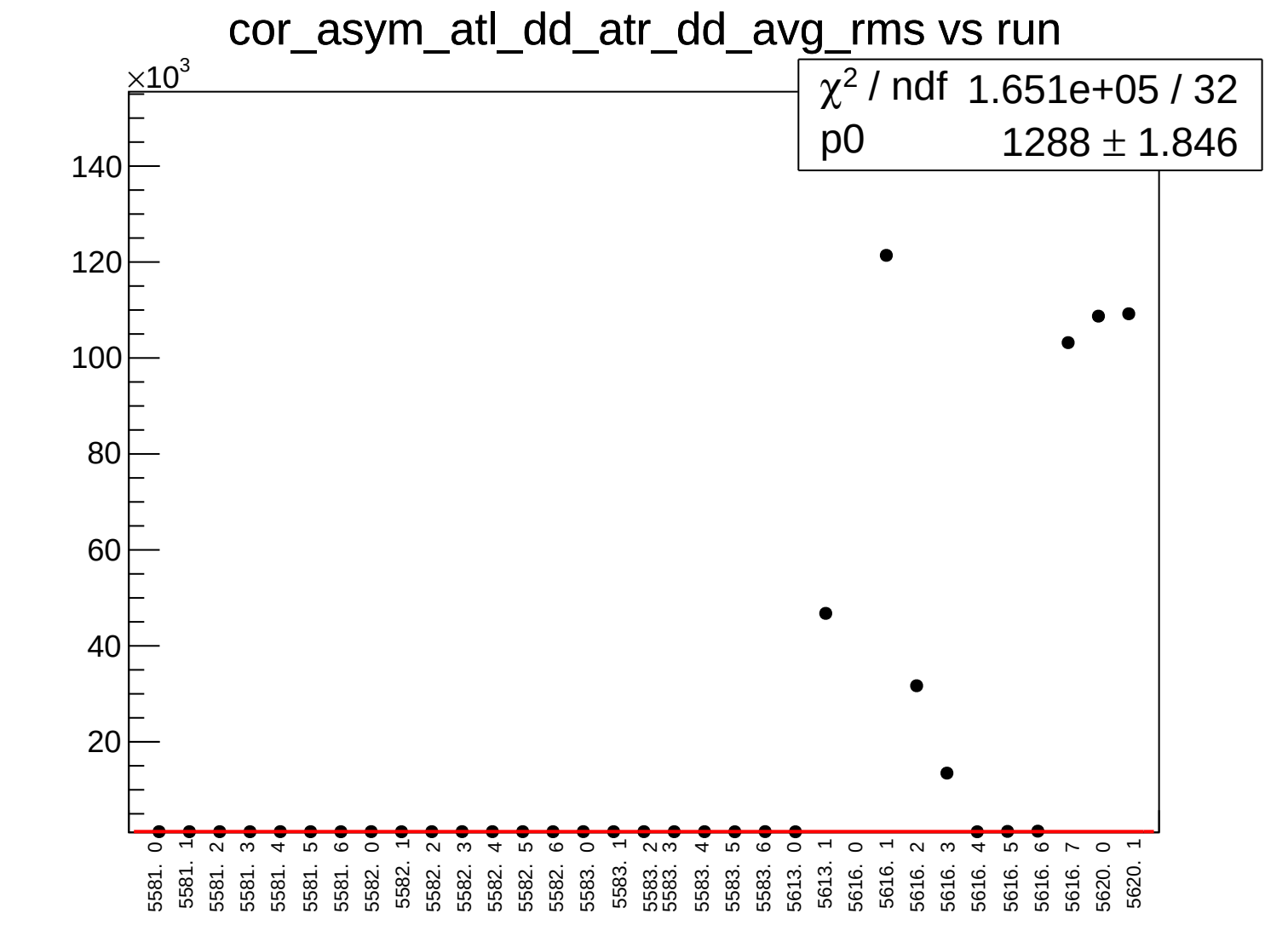

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
χ² / ndf 33.39 / 32
p0 727.7 ± 2529
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5.304
Std Dev 13.1
2
1
0
−1
−2

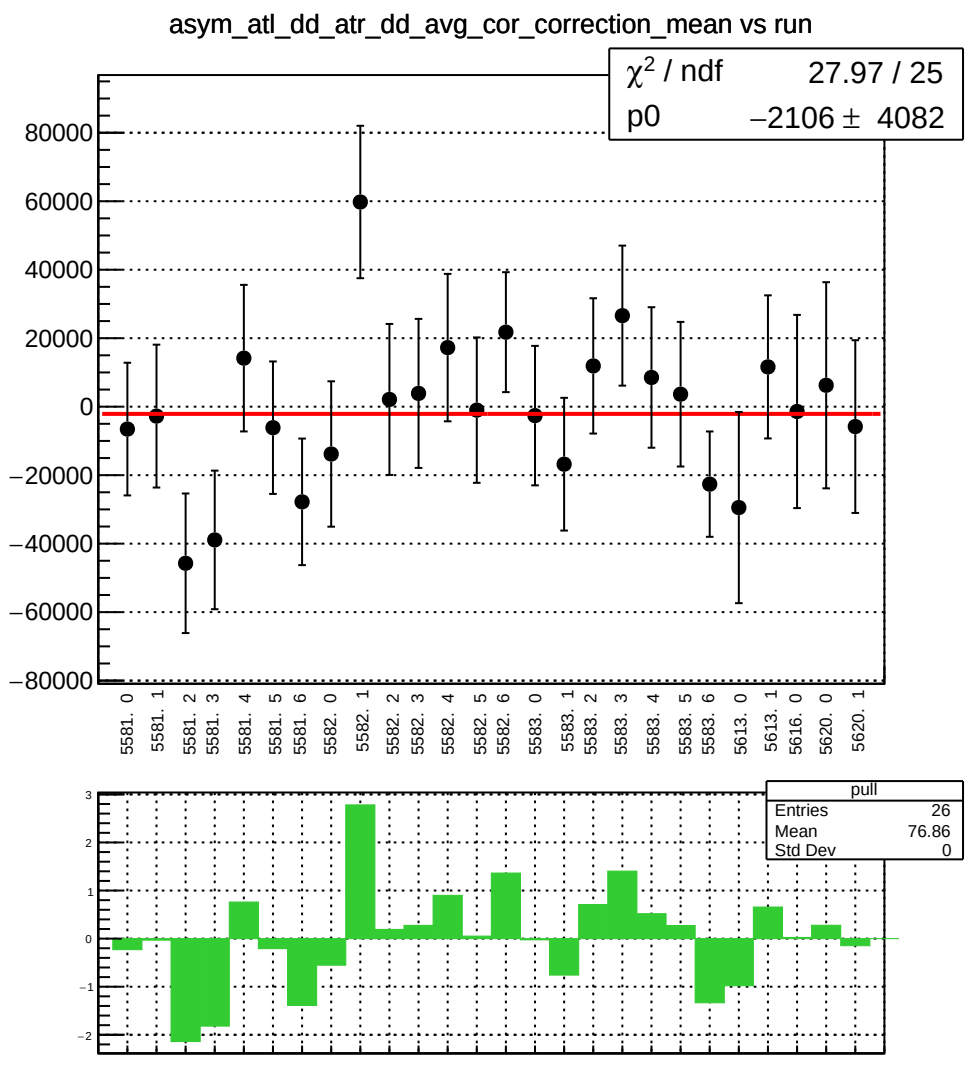

pull1D
Entries 33
Mean −0.1081
Std Dev 1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

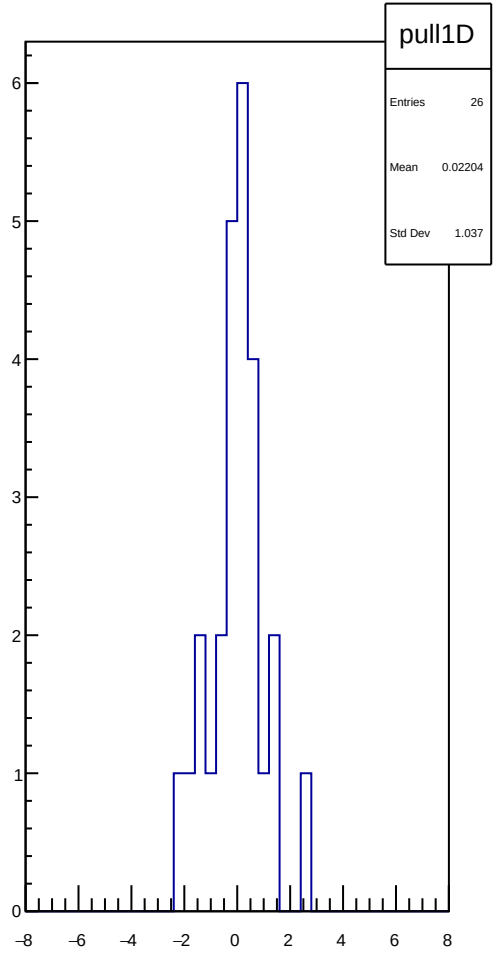

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.7e+05 / 32
p0 1241 ± 1.788
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

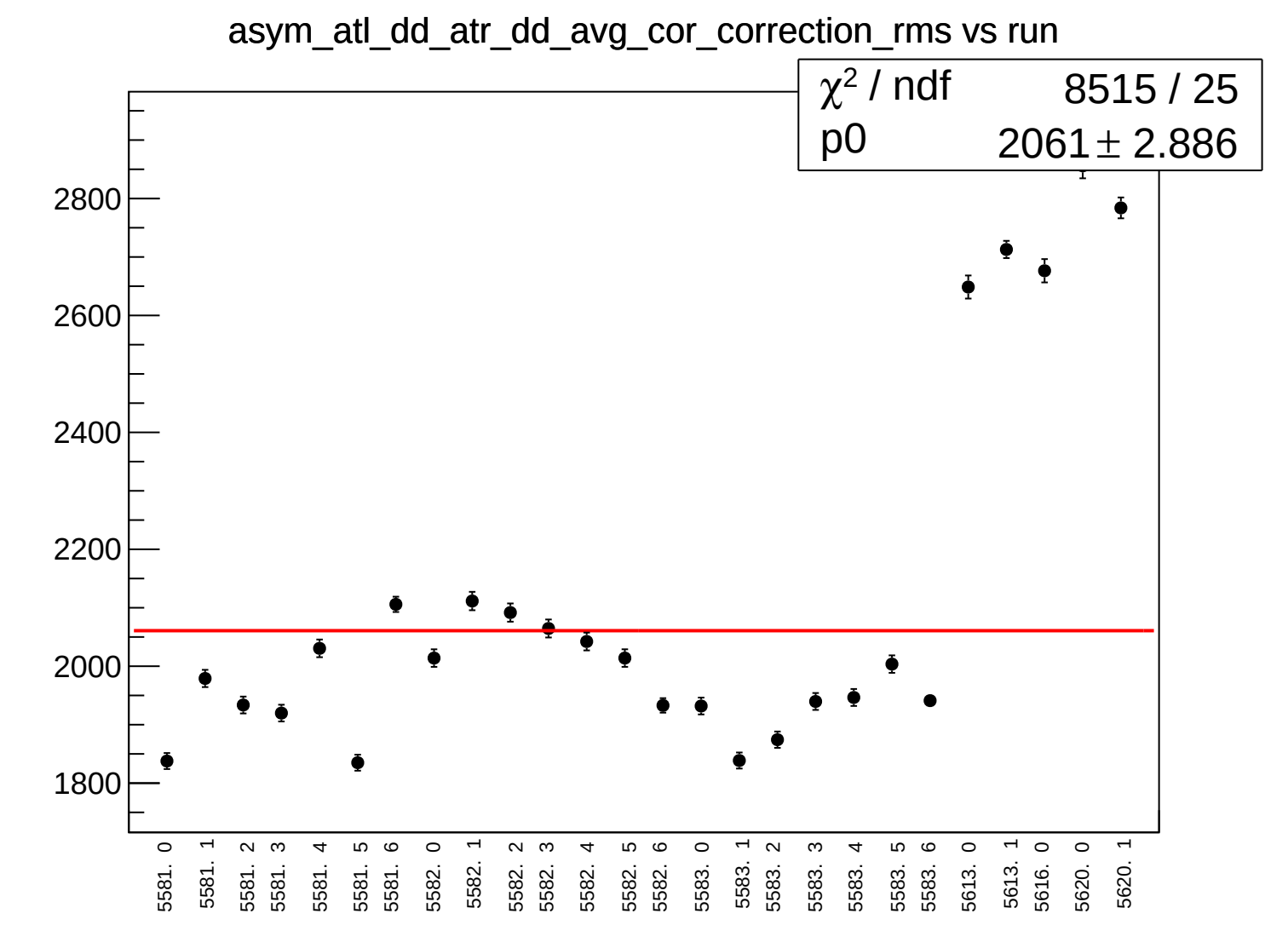

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 18.04 / 21
p0 2195 ± 2761
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 103.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

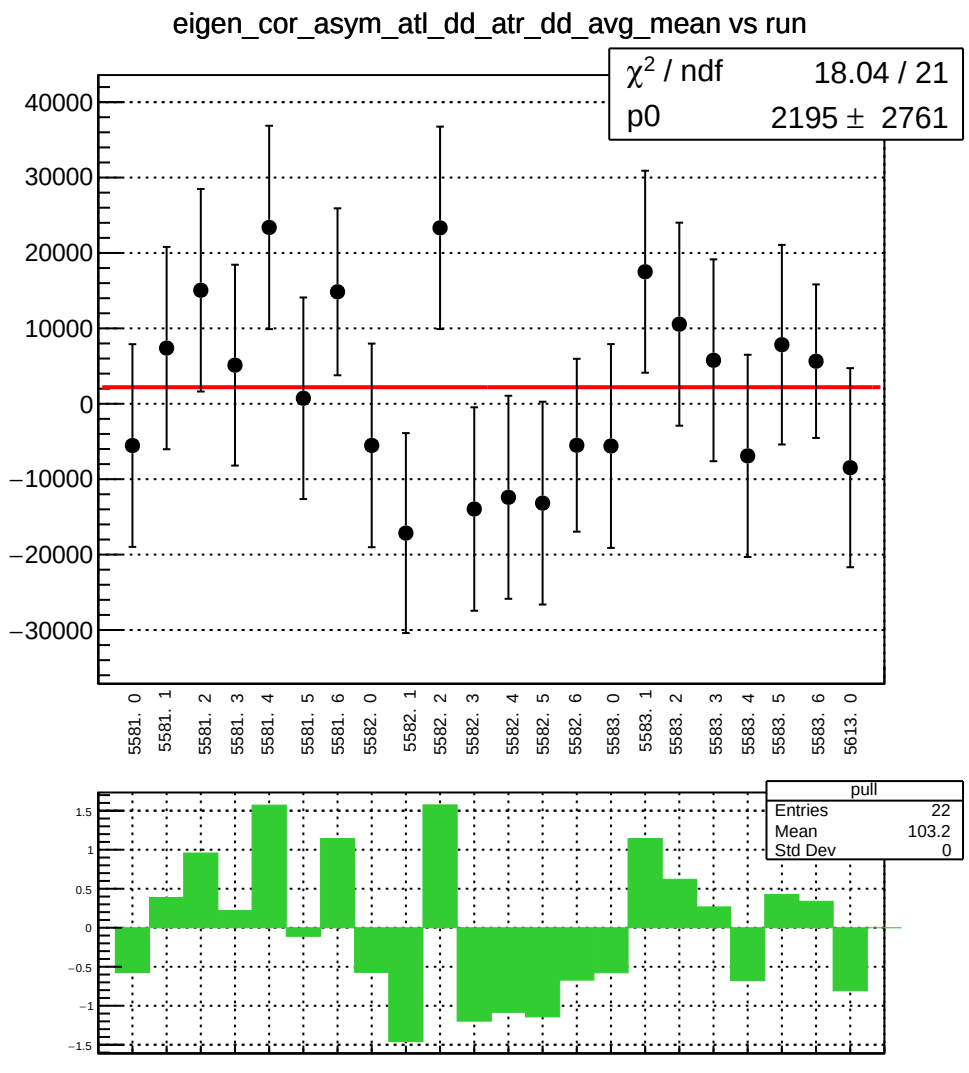

pull1D
Entries 22
Mean −0.0102
Std Dev 0.9055
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

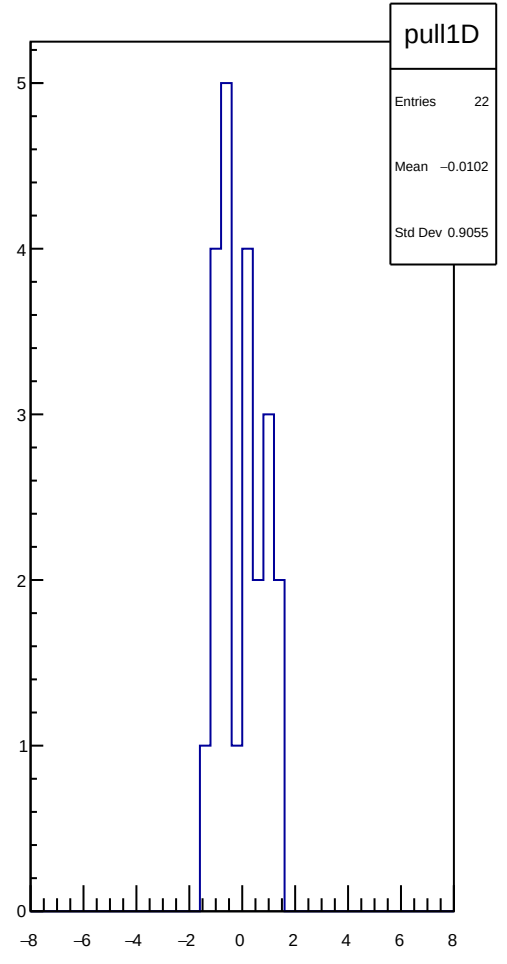

cor_asym_atl_dd_atr_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.651e+05 / 32
p0 1288 ± 1.846
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

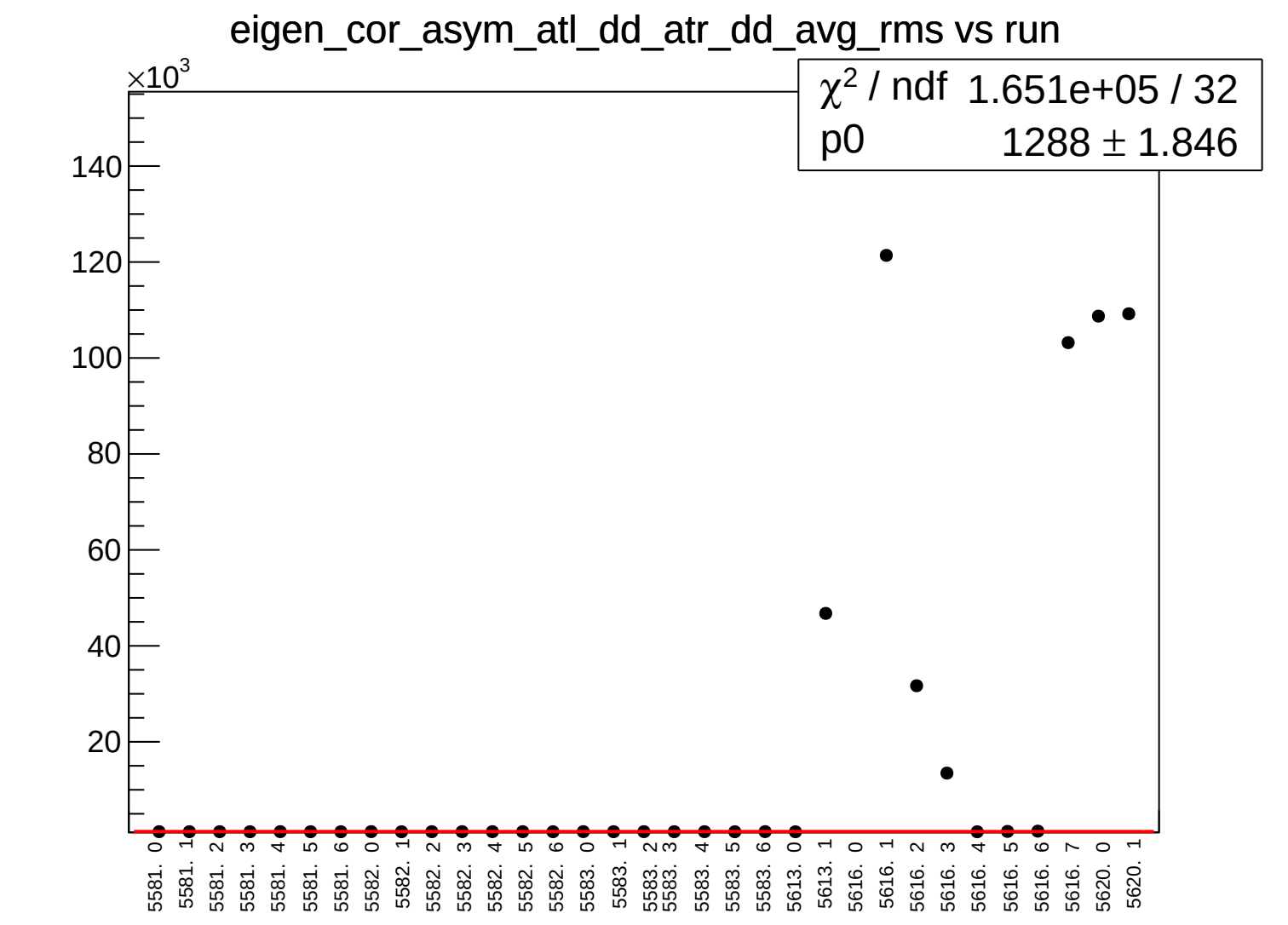

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
χ² / ndf 27.97 / 25
p0 −2106 ± 4082
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 76.86
Std Dev 0
3
2
1
0
−1
−2

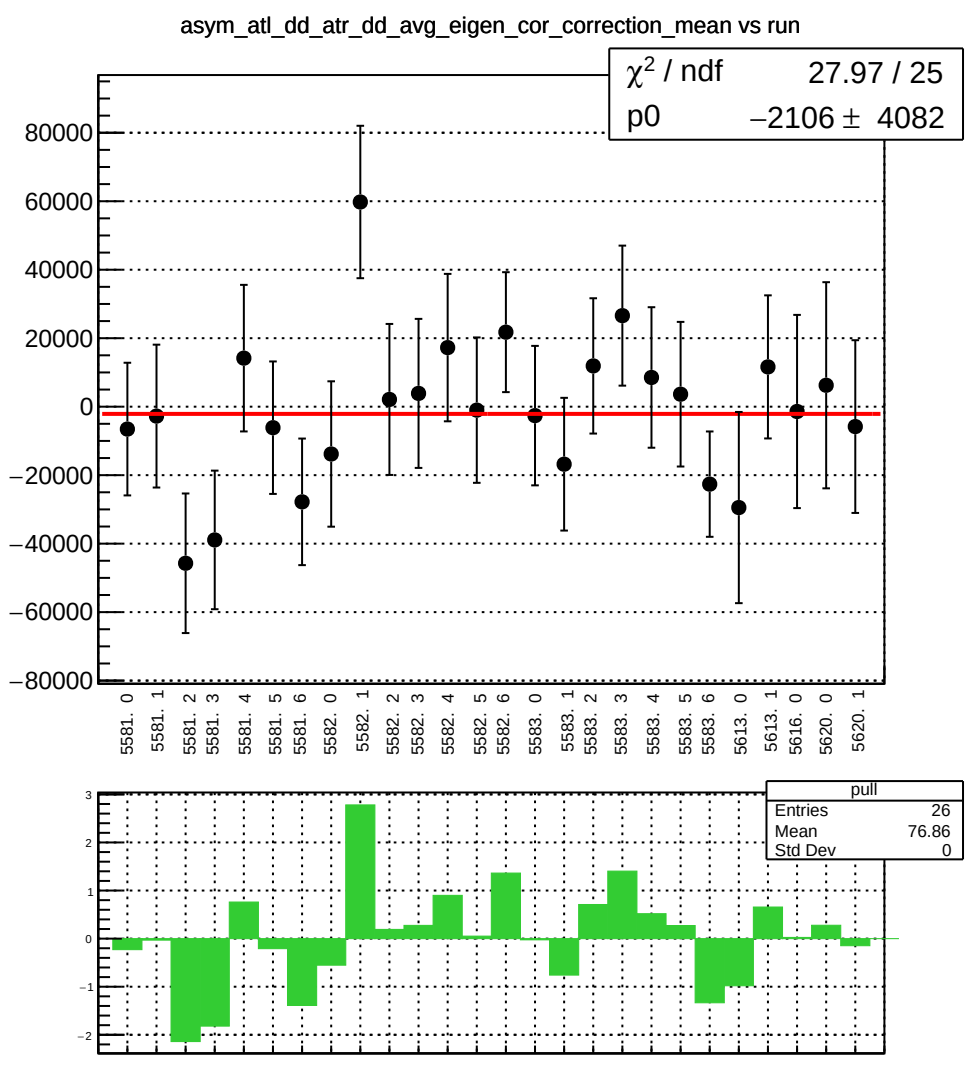

pull1D
Entries 26
Mean 0.02204
Std Dev 1.037
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

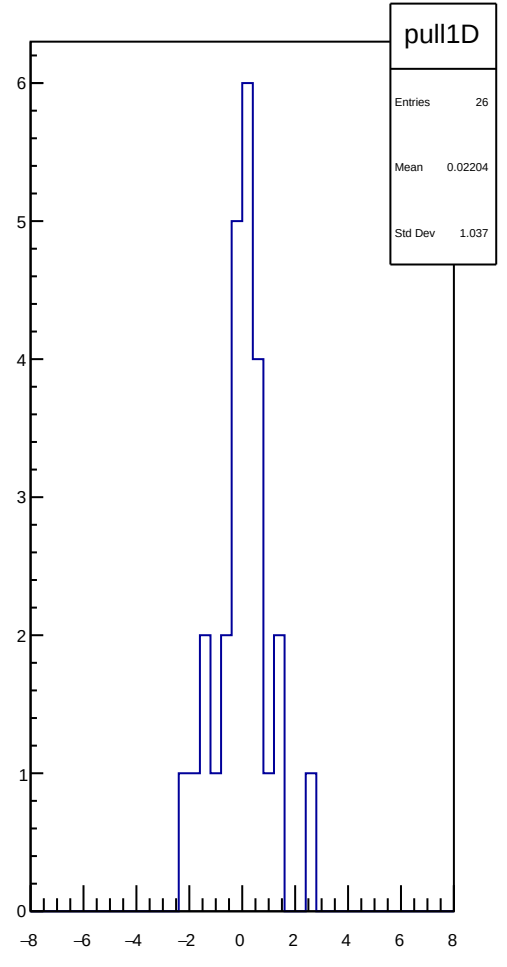

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 8515 / 25
p0 2061 ± 2.886
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

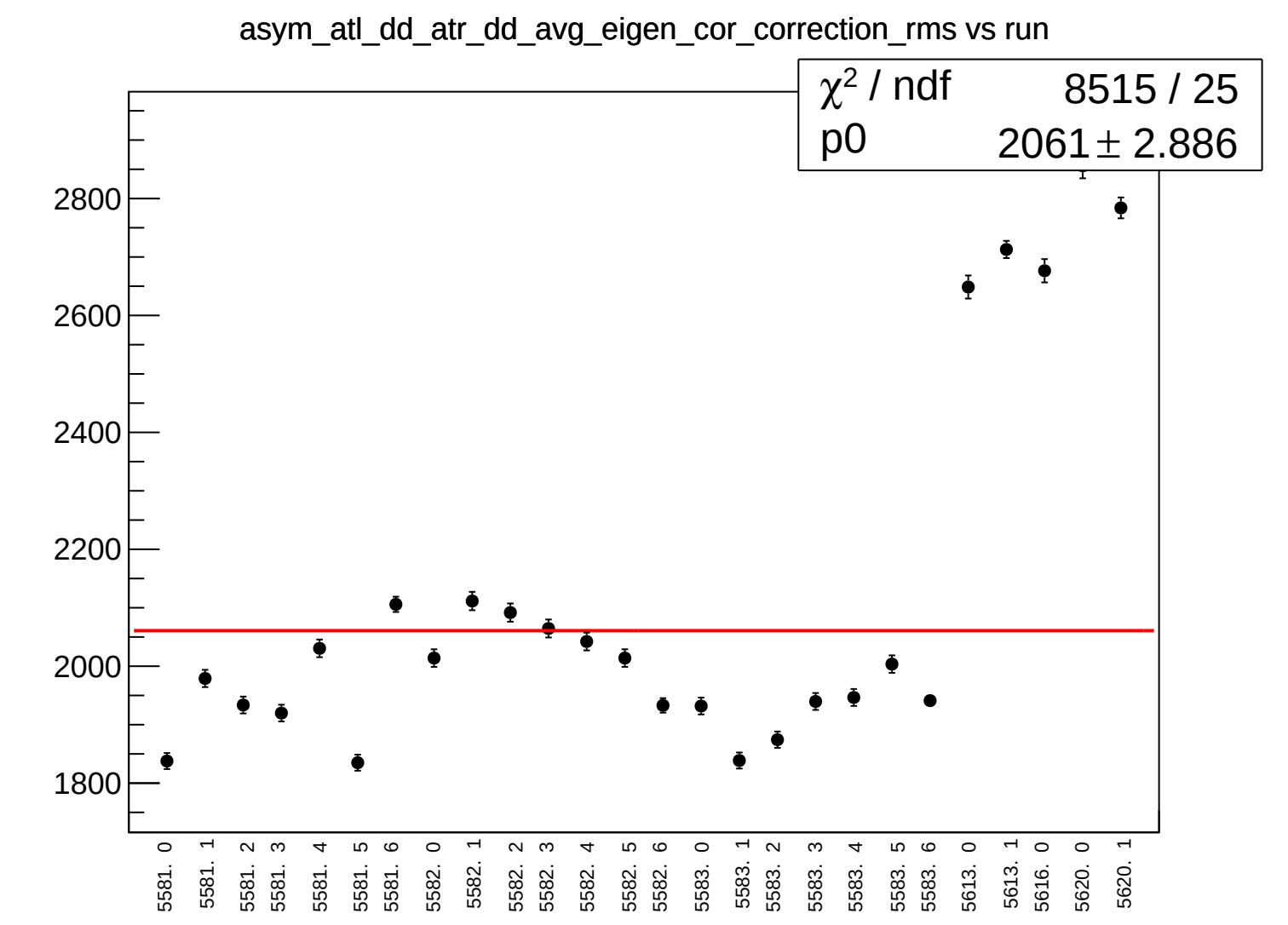

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 18.04 / 21
p0 2195 ± 2761
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 103.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

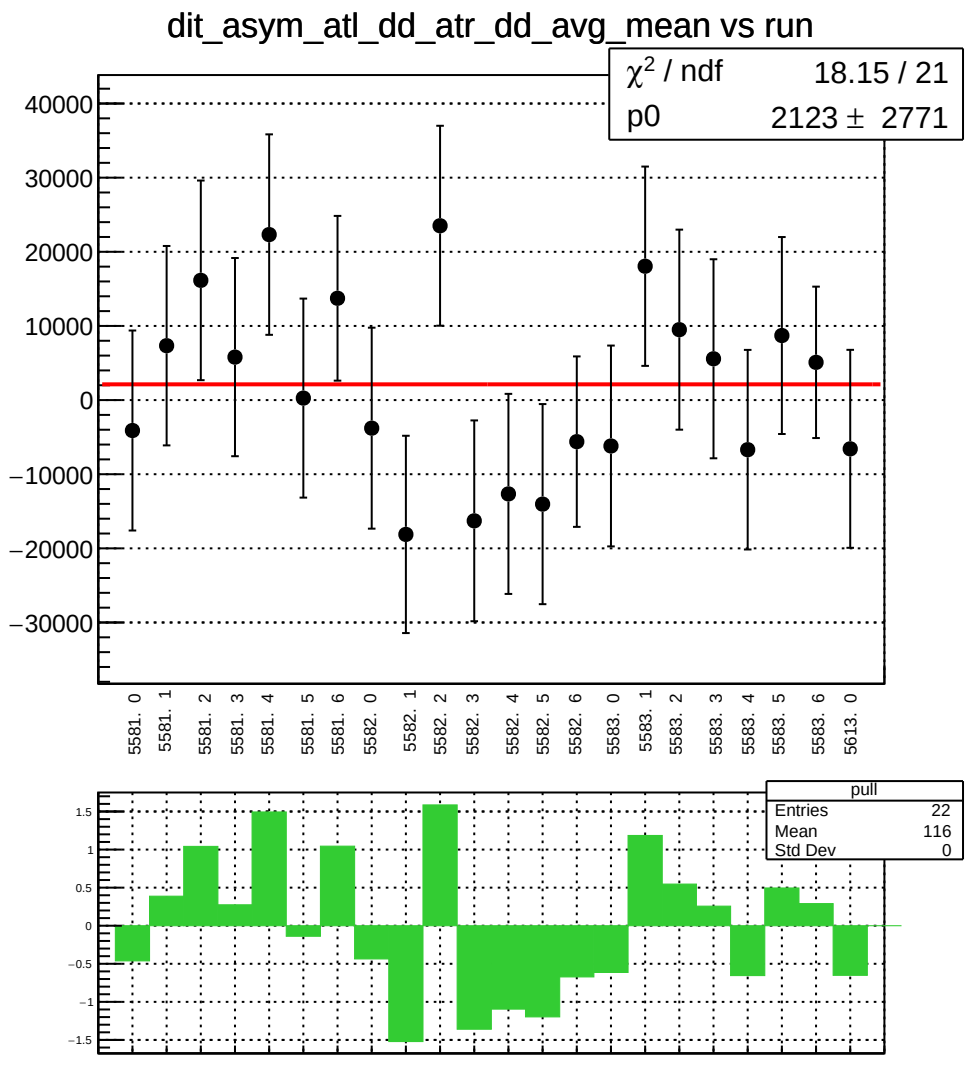

pull1D
Entries 22
Mean −0.0102
Std Dev 0.9055
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

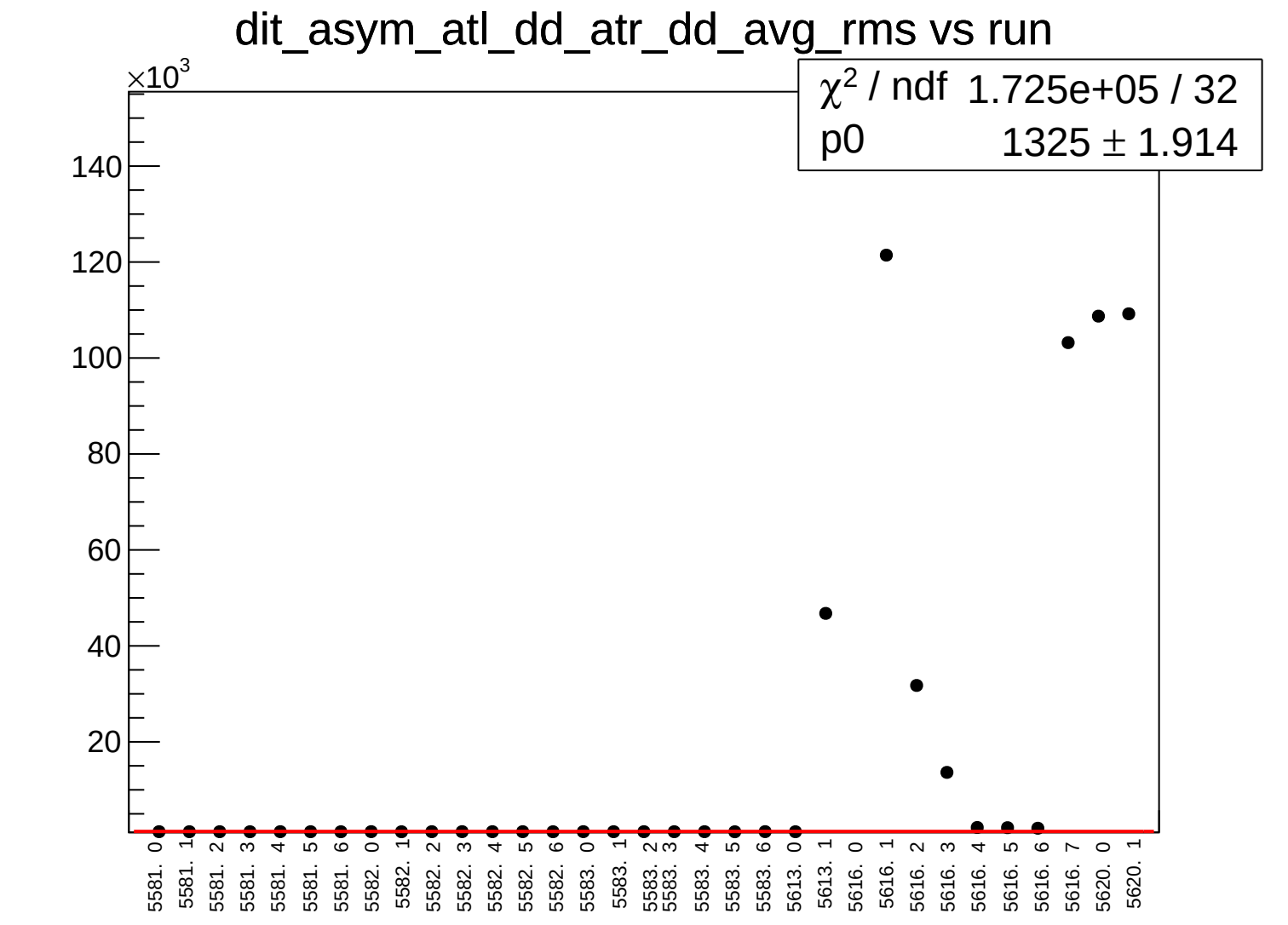

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.651e+05 / 32
p0 1288 ± 1.846
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

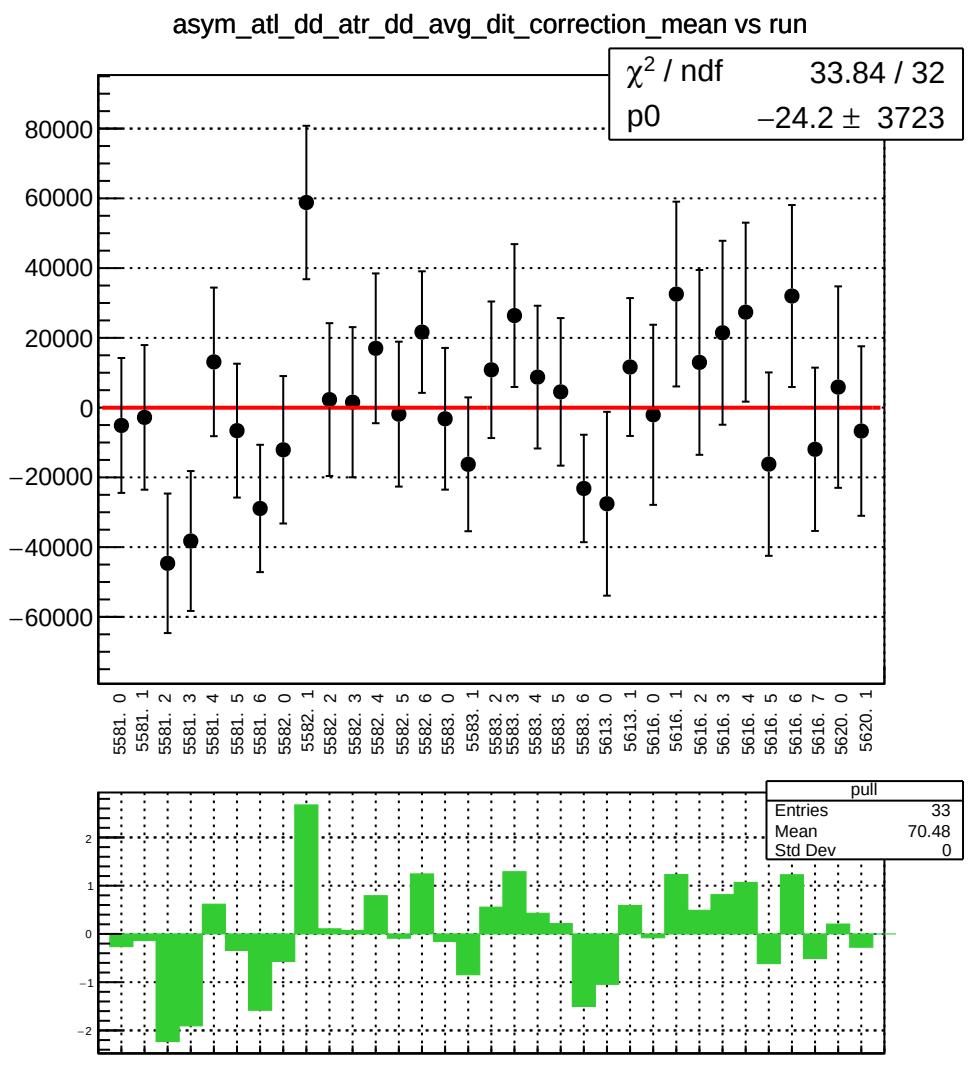

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 27.97 / 25
p0 −2106 ± 4082
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 76.86
Std Dev 0
3
2
1
0
−1
−2

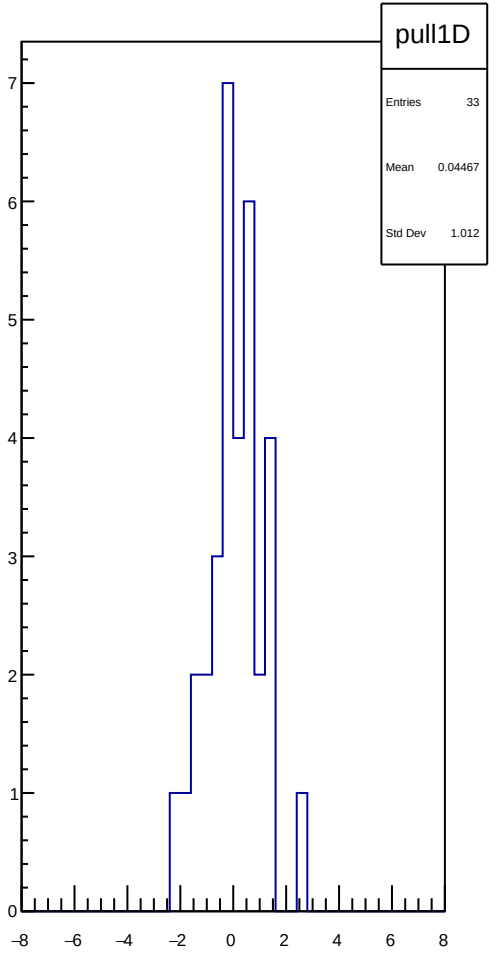

pull1D
Entries 26
Mean 0.02204
Std Dev 1.037
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

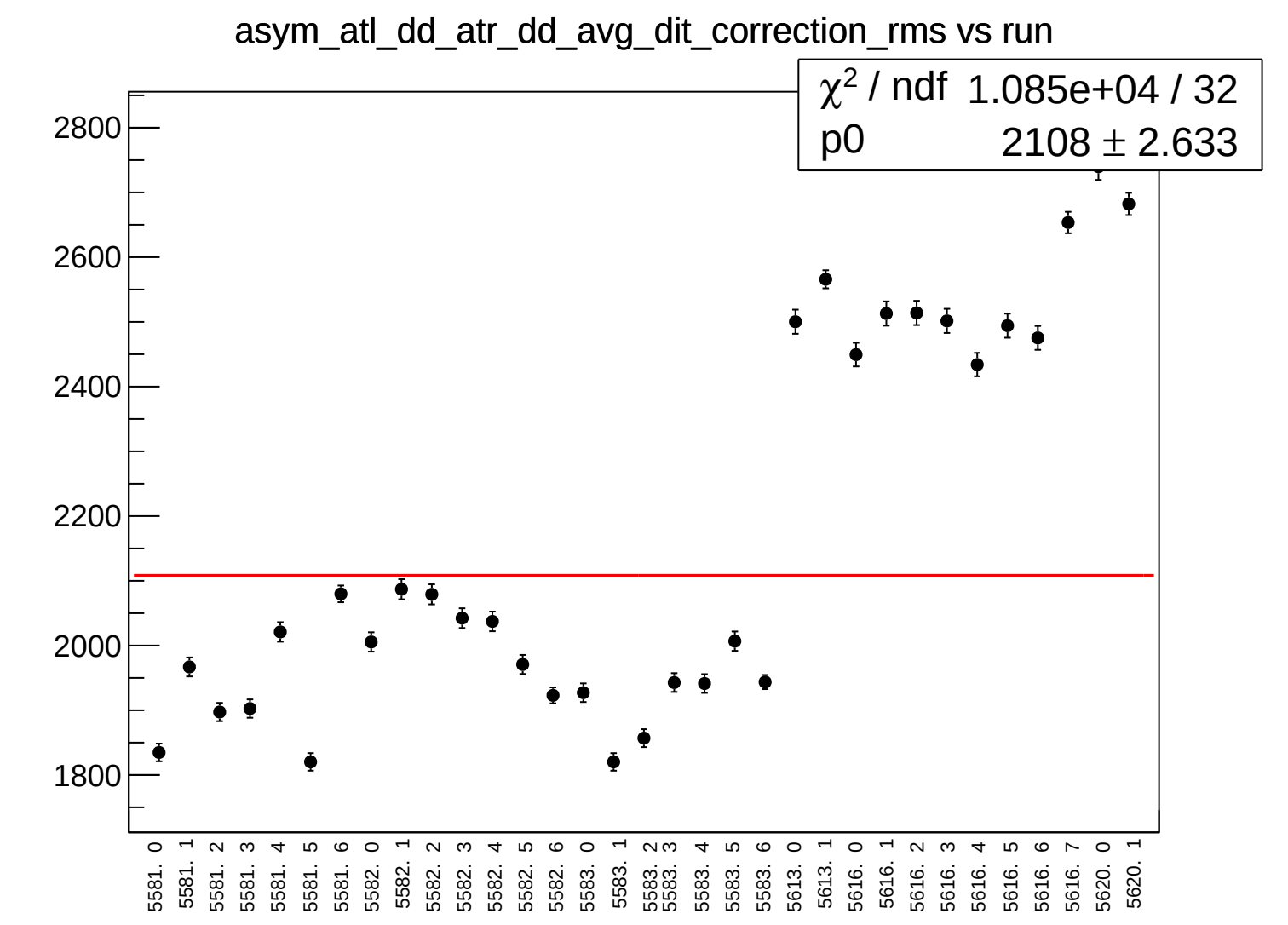

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8515 / 25
p0 2061 ± 2.886
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

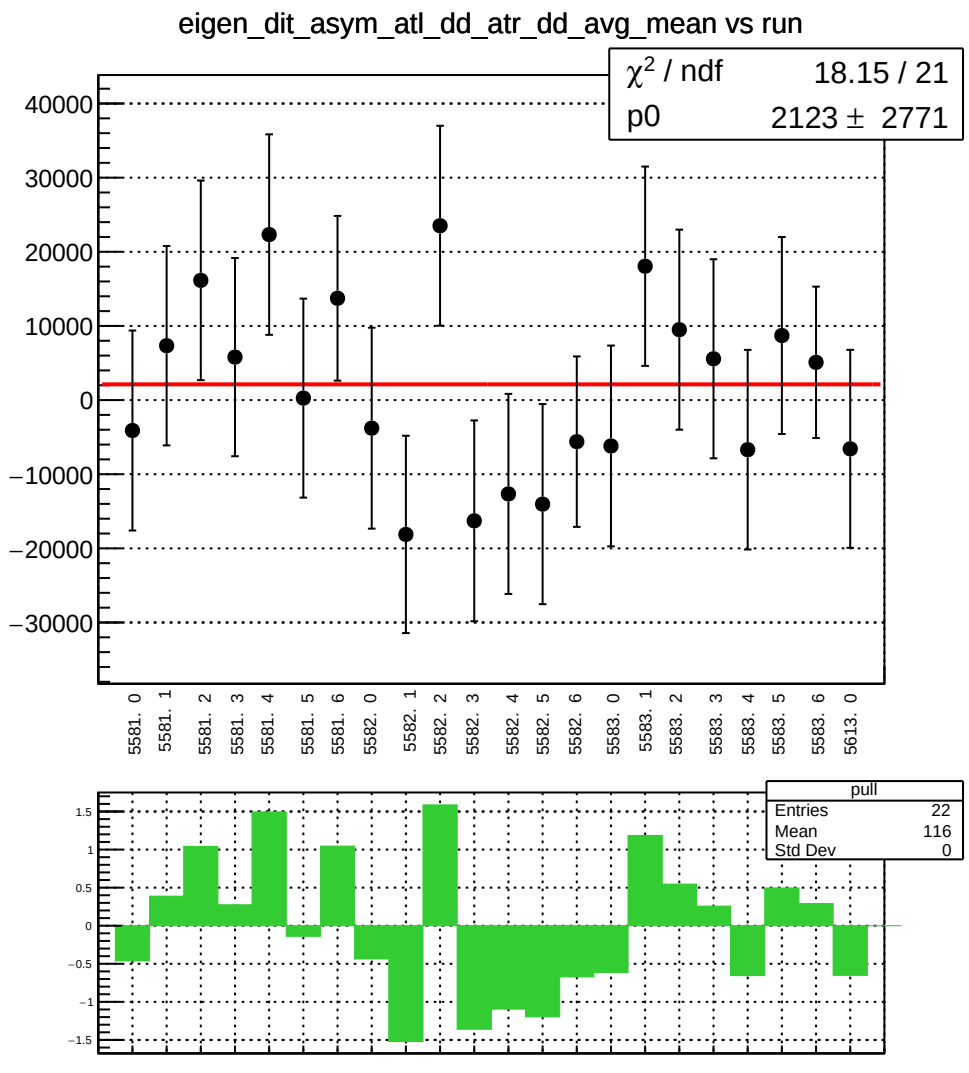

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 18.15 / 21
p0 2123 ± 2771
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 116
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 22
Mean −0.008968
Std Dev 0.9083
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

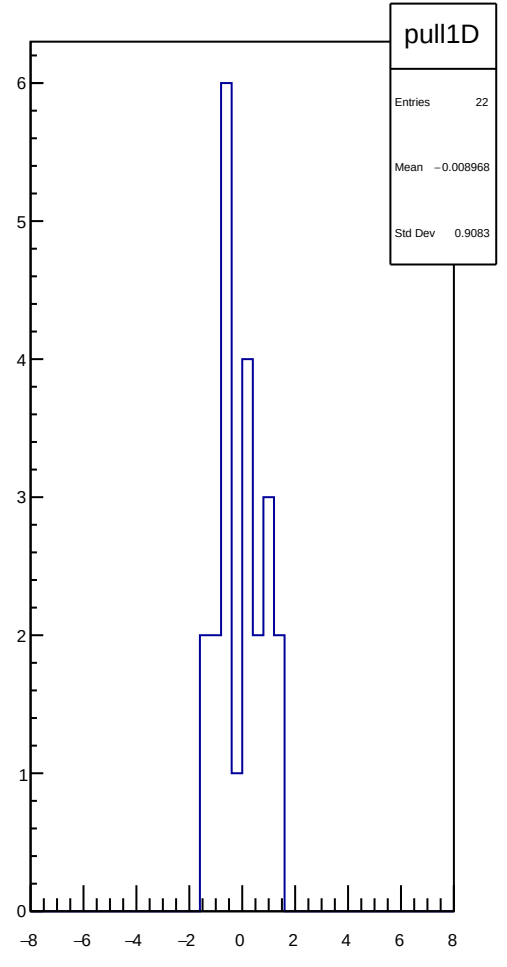

dit_asym_atl_dd_atr_dd_avg_rms vs run
×10^3
χ² / ndf 1.725e+05 / 32
p0 1325 ± 1.914
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

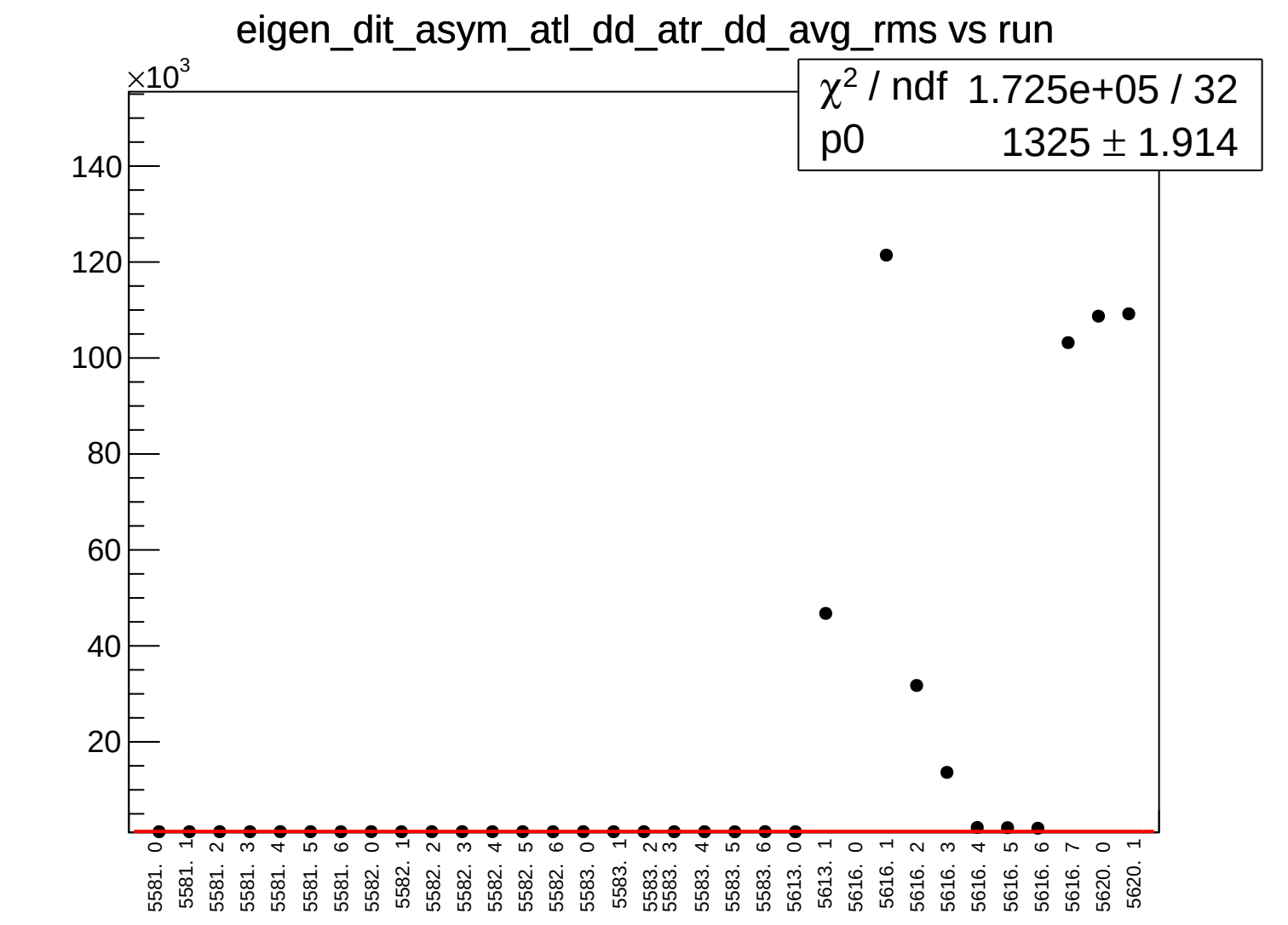

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
χ² / ndf 33.84 / 32
p0 −24.2 ± 3723
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 70.48
Std Dev 0
2
1
0
−1
−2

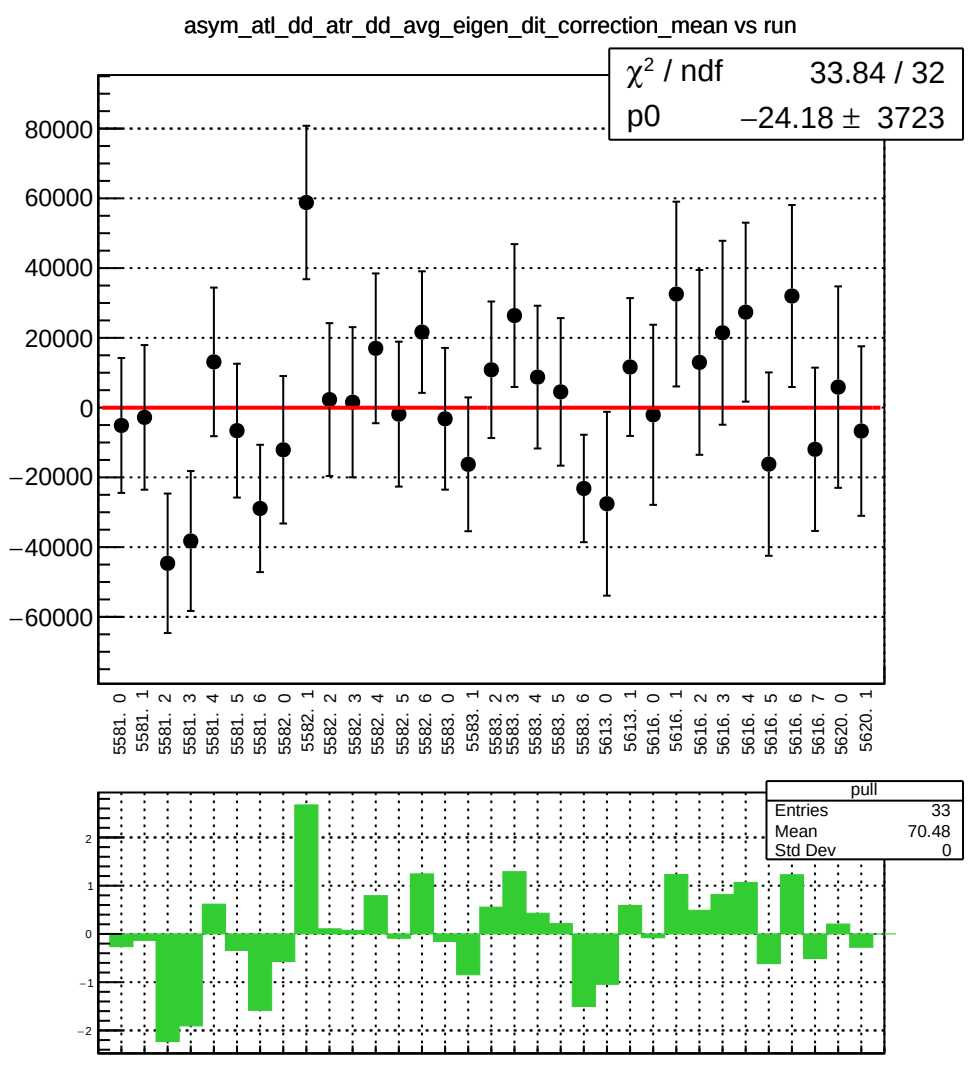

pull1D
Entries 33
Mean 0.04467
Std Dev 1.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

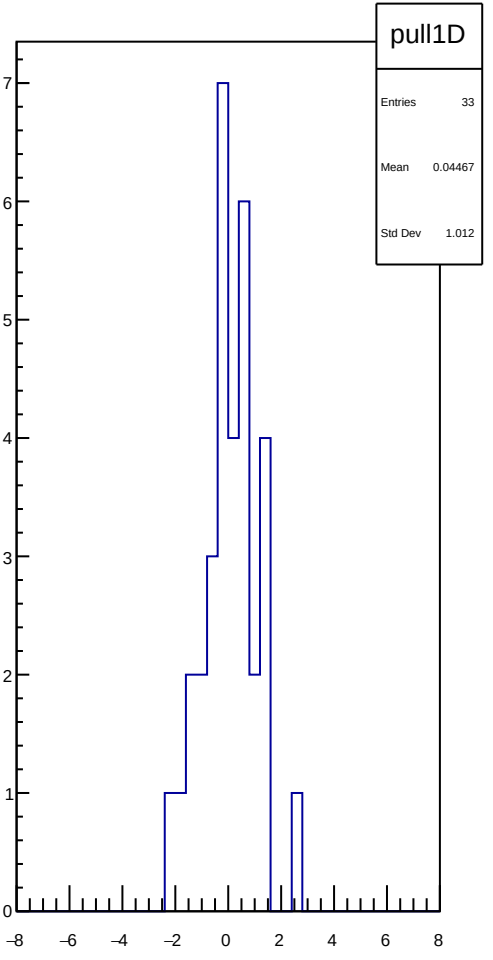

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 32
p0 2108 ± 2.633
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

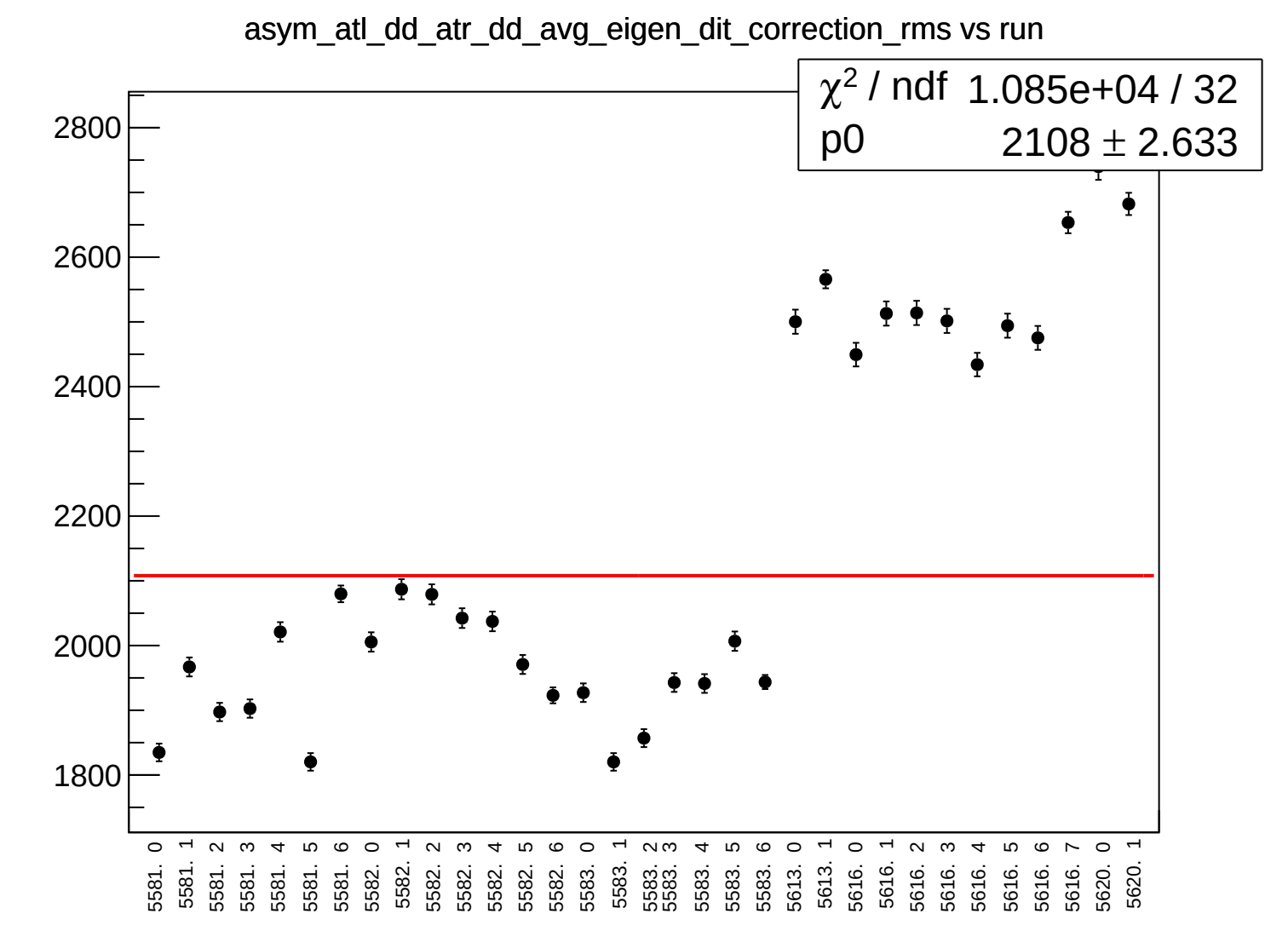

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 18.15 / 21
p0 2123 ± 2771
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 116
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

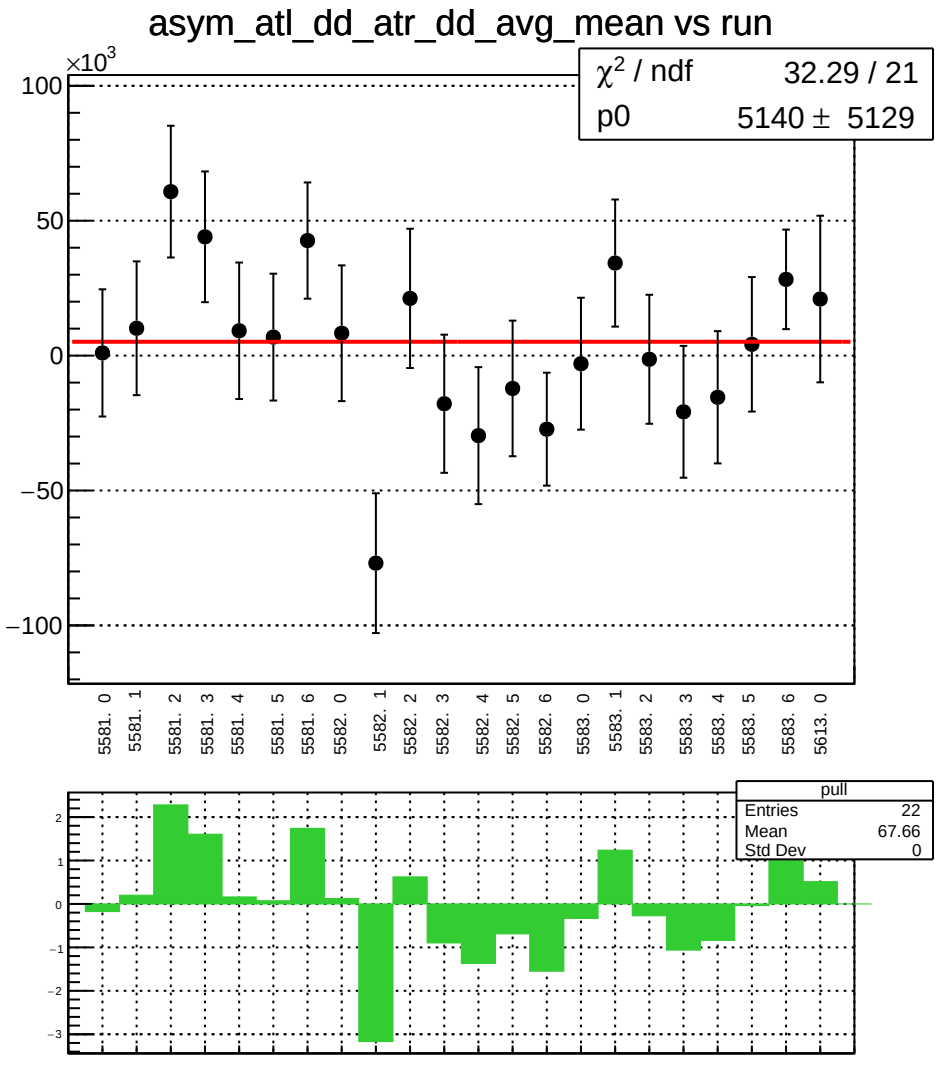

pull1D
Entries 22
Mean −0.008968
Std Dev 0.9083
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

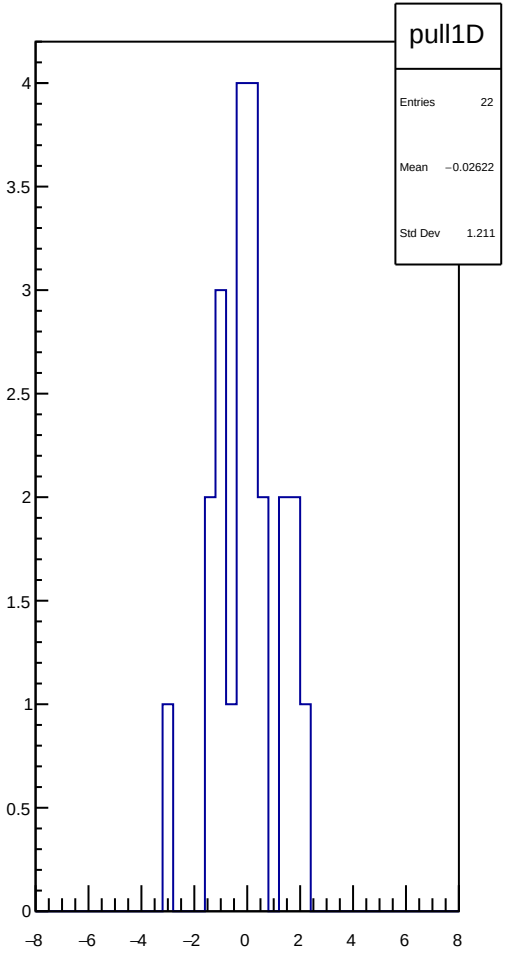

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.725e+05 / 32
p0 1325 ± 1.914
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

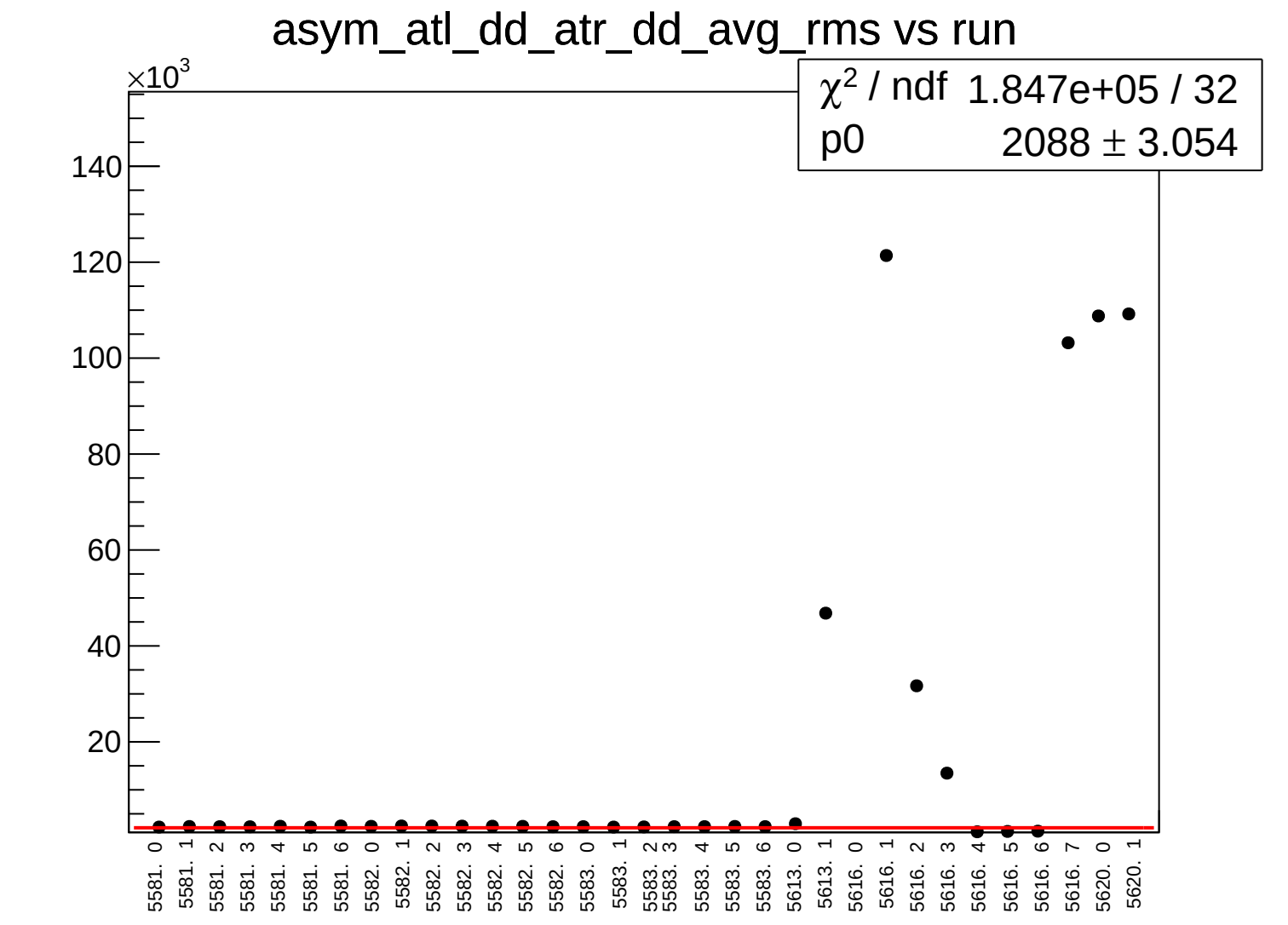

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 33.84 / 32
p0 −24.18 ± 3723
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 70.48
Std Dev 0
2
1
0
−1
−2

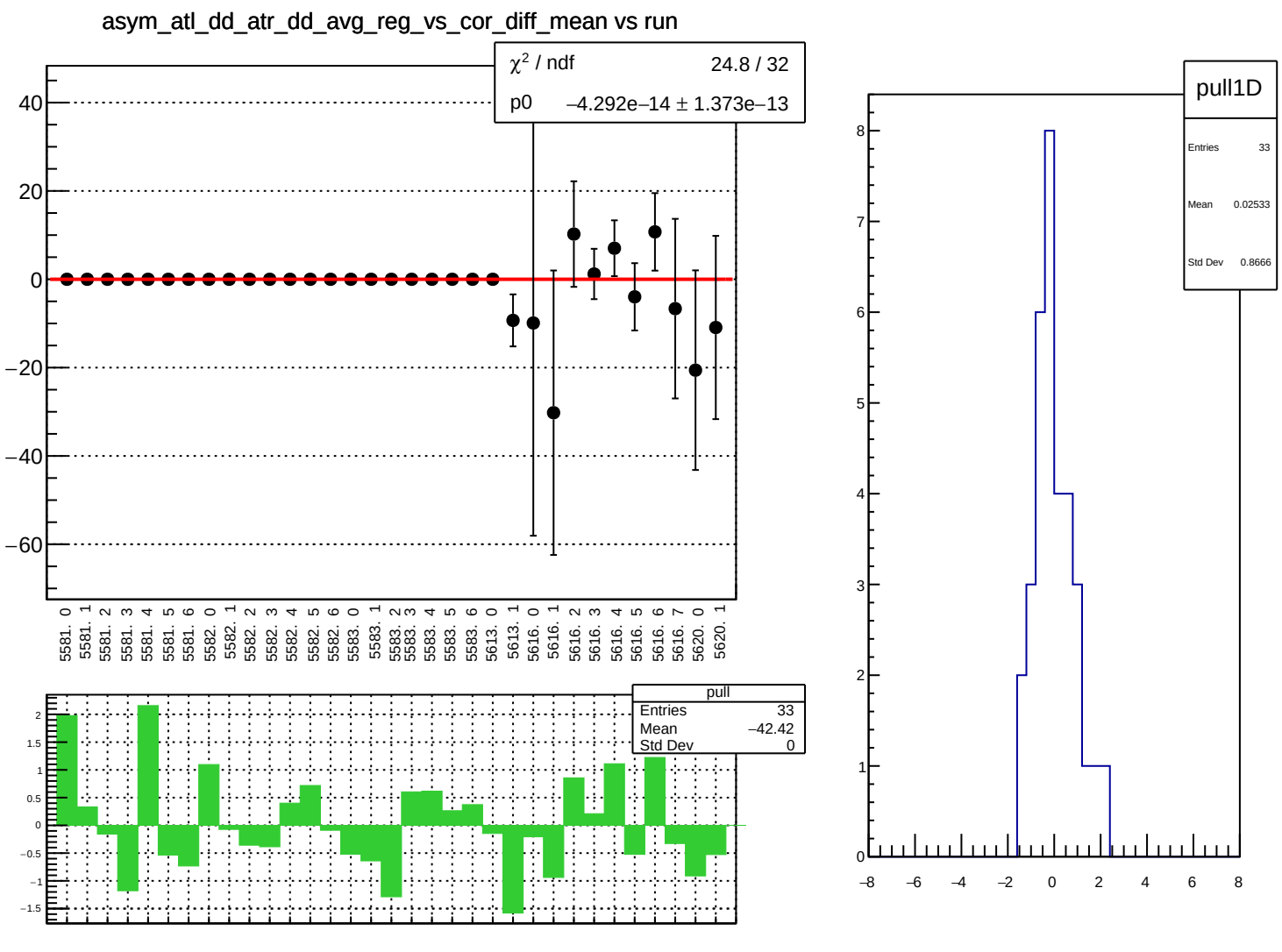

pull1D
Entries 33
Mean 0.04467
Std Dev 1.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

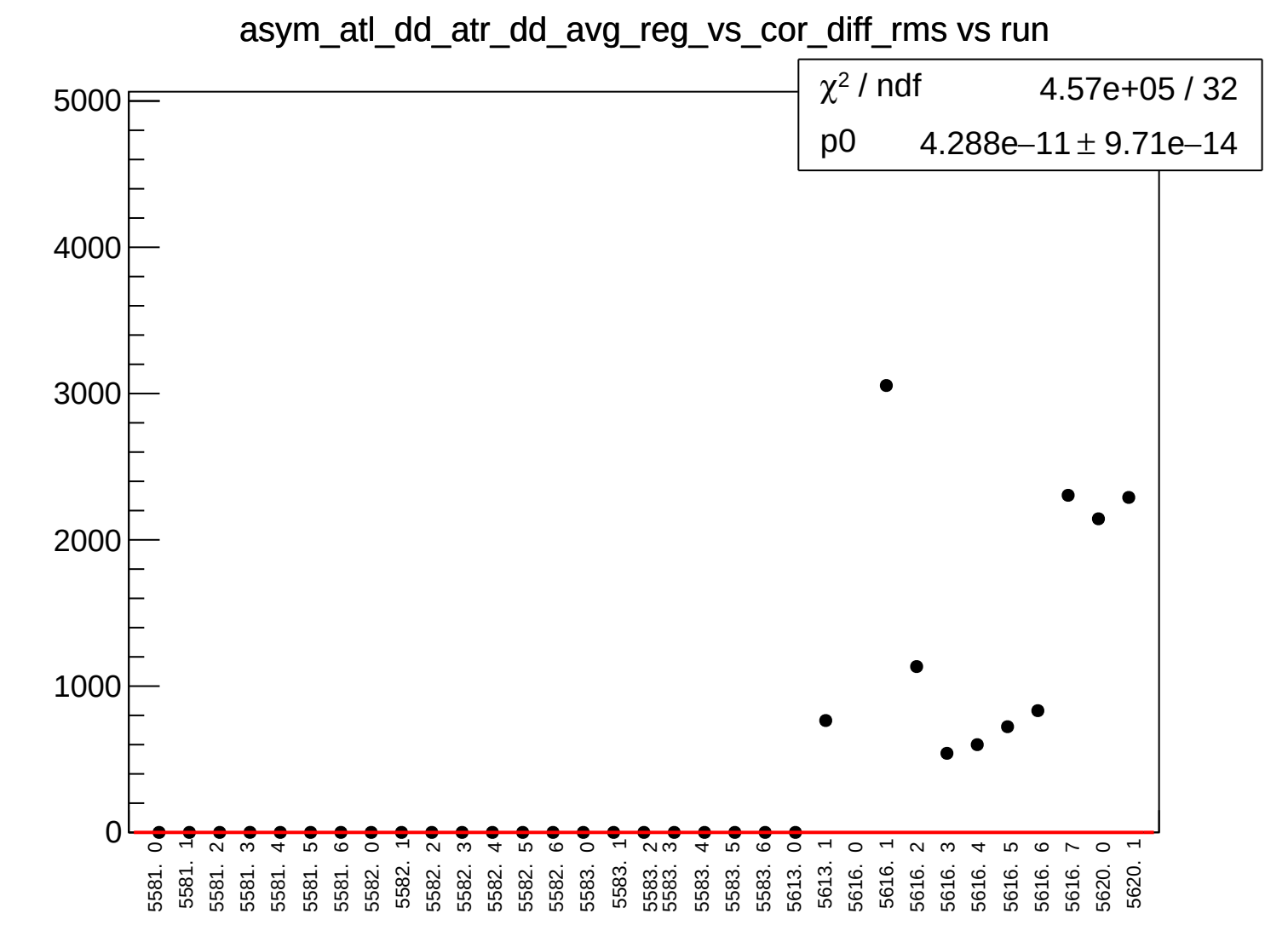

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 32
p0 2108 ± 2.633
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

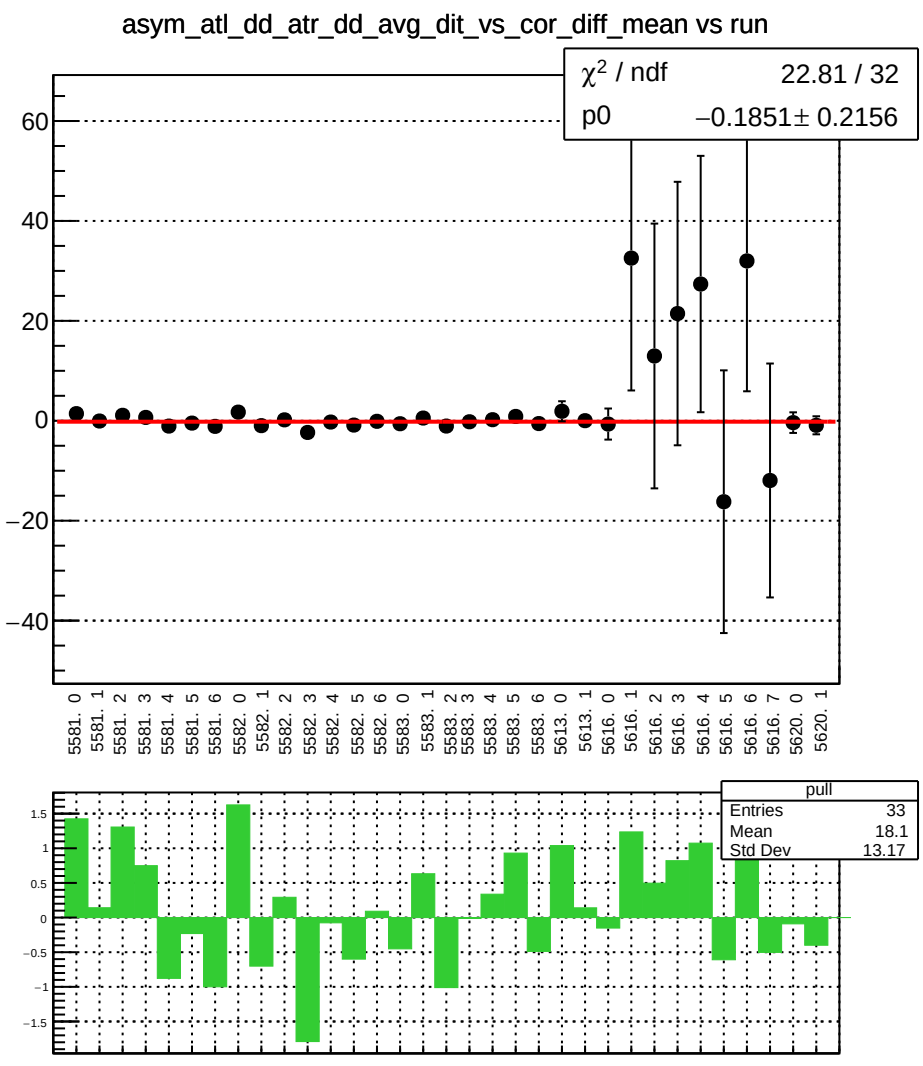

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 32.29 / 21
p0 5140 ± 5129
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 67.66
Std Dev 0
2
1
0
−1
−2
−3

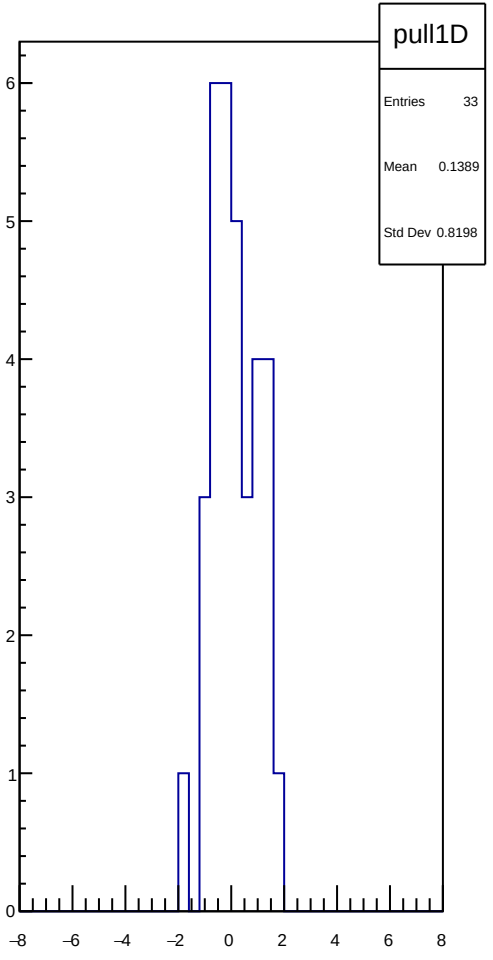

pull1D
Entries 22
Mean −0.02622
Std Dev 1.211
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

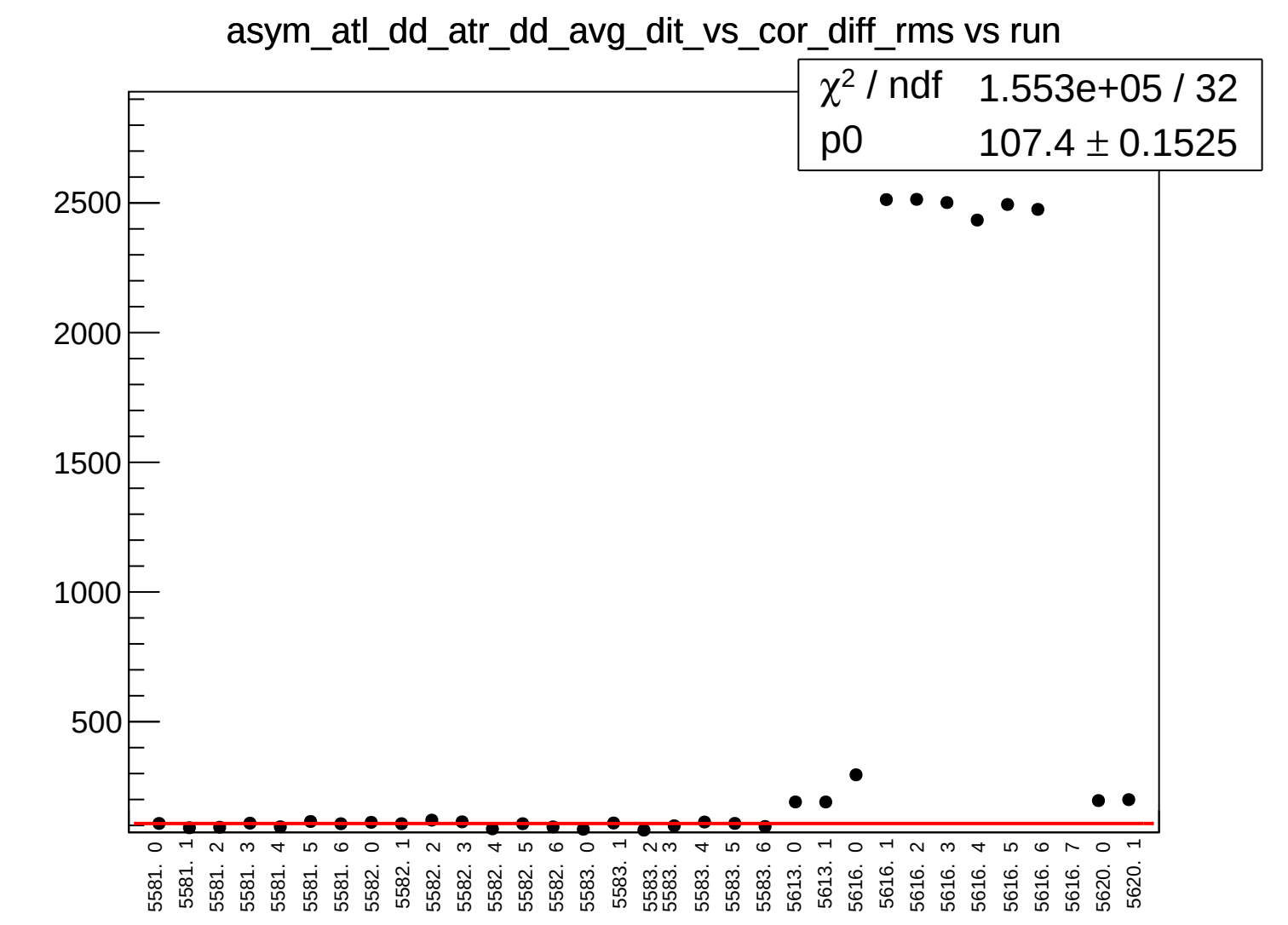

asym_atl_dd_atr_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.847e+05 / 32
p0 2088 ± 3.054
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

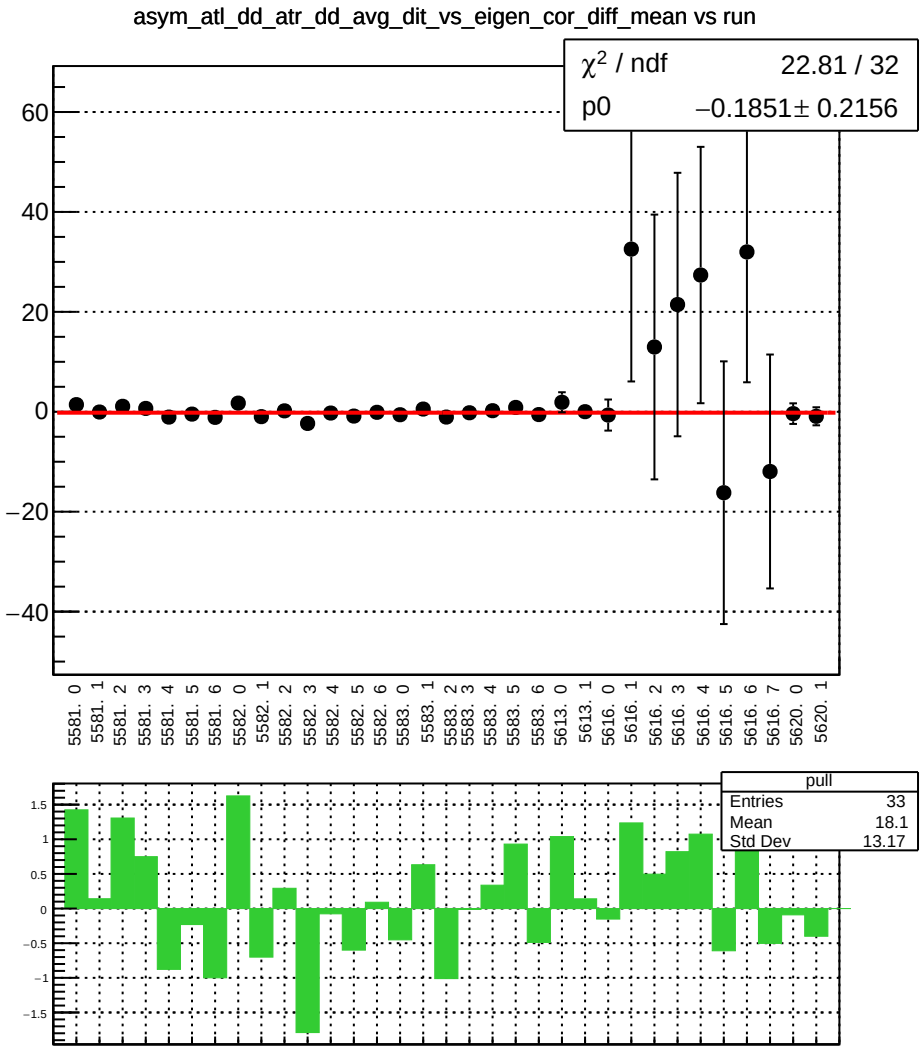

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 24.8 / 32
p0 −4.292e−14 ± 1.373e−13
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −42.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.02533
Std Dev 0.8666
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

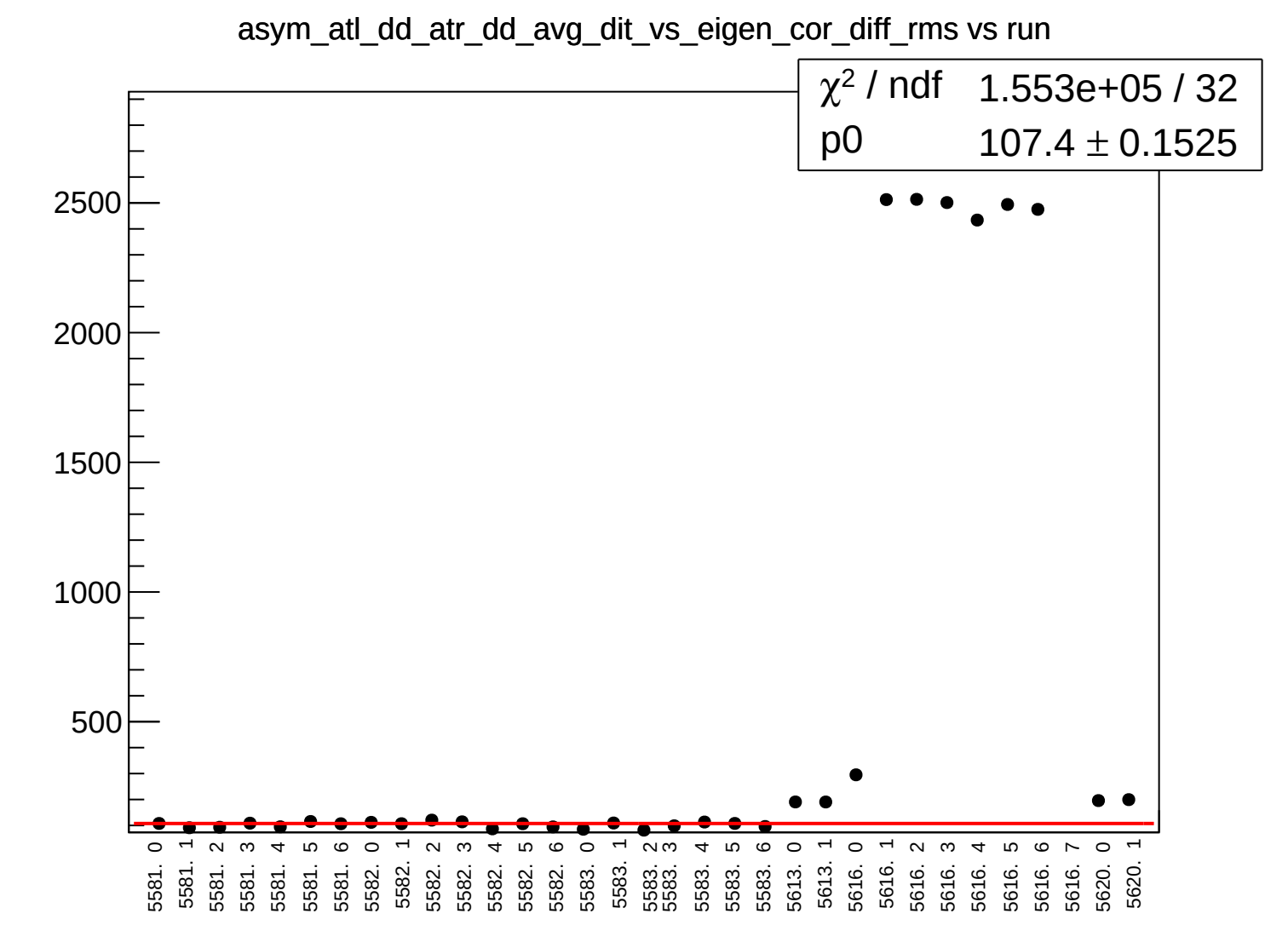

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.57e+05 / 32
p0 4.288e−11 ± 9.71e−14
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

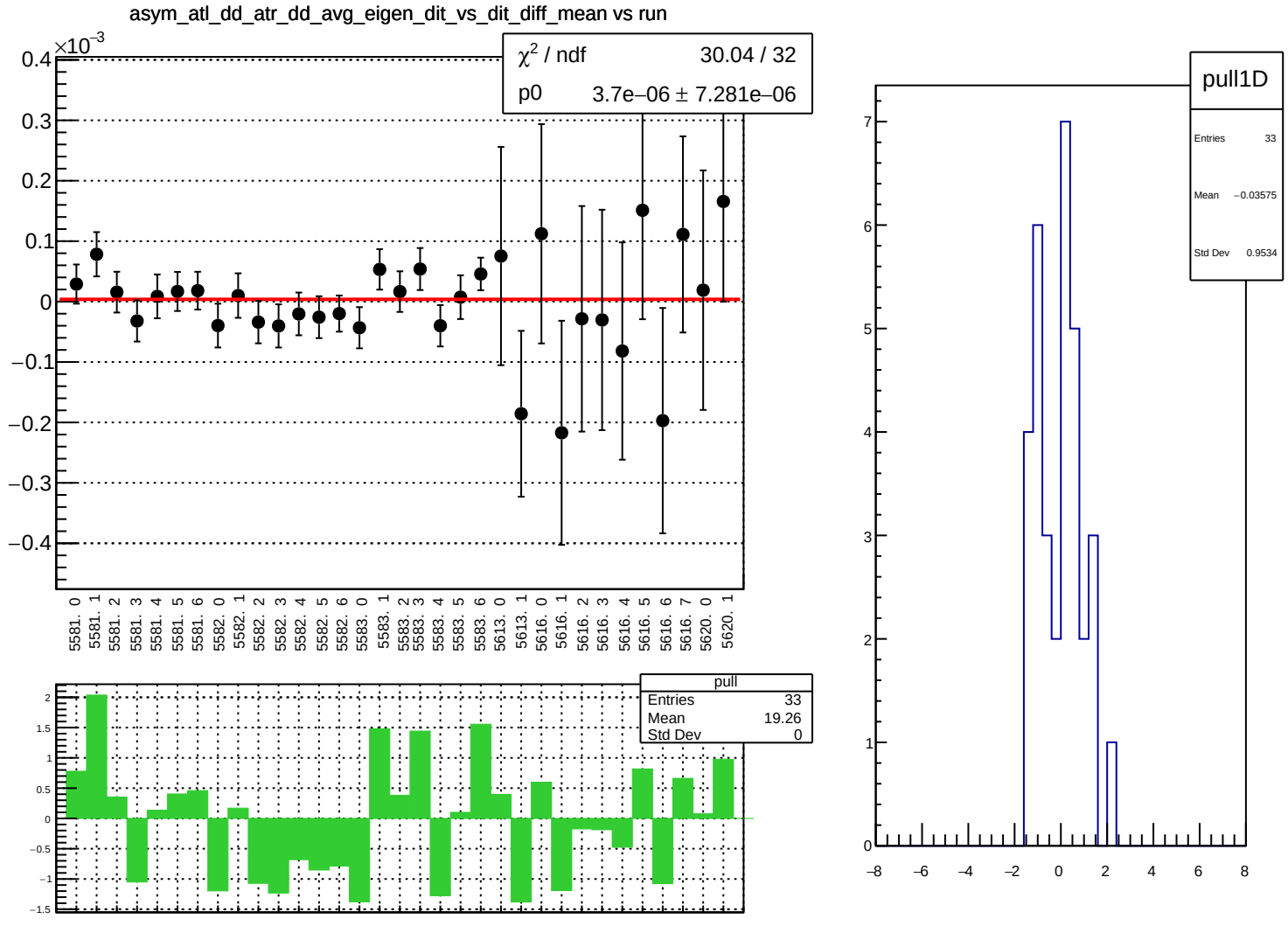

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 22.81 / 32
p0 −0.1851± 0.2156
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.1
Std Dev 13.17
1.5
1
0.5
0
−0.5
−1
−1.5

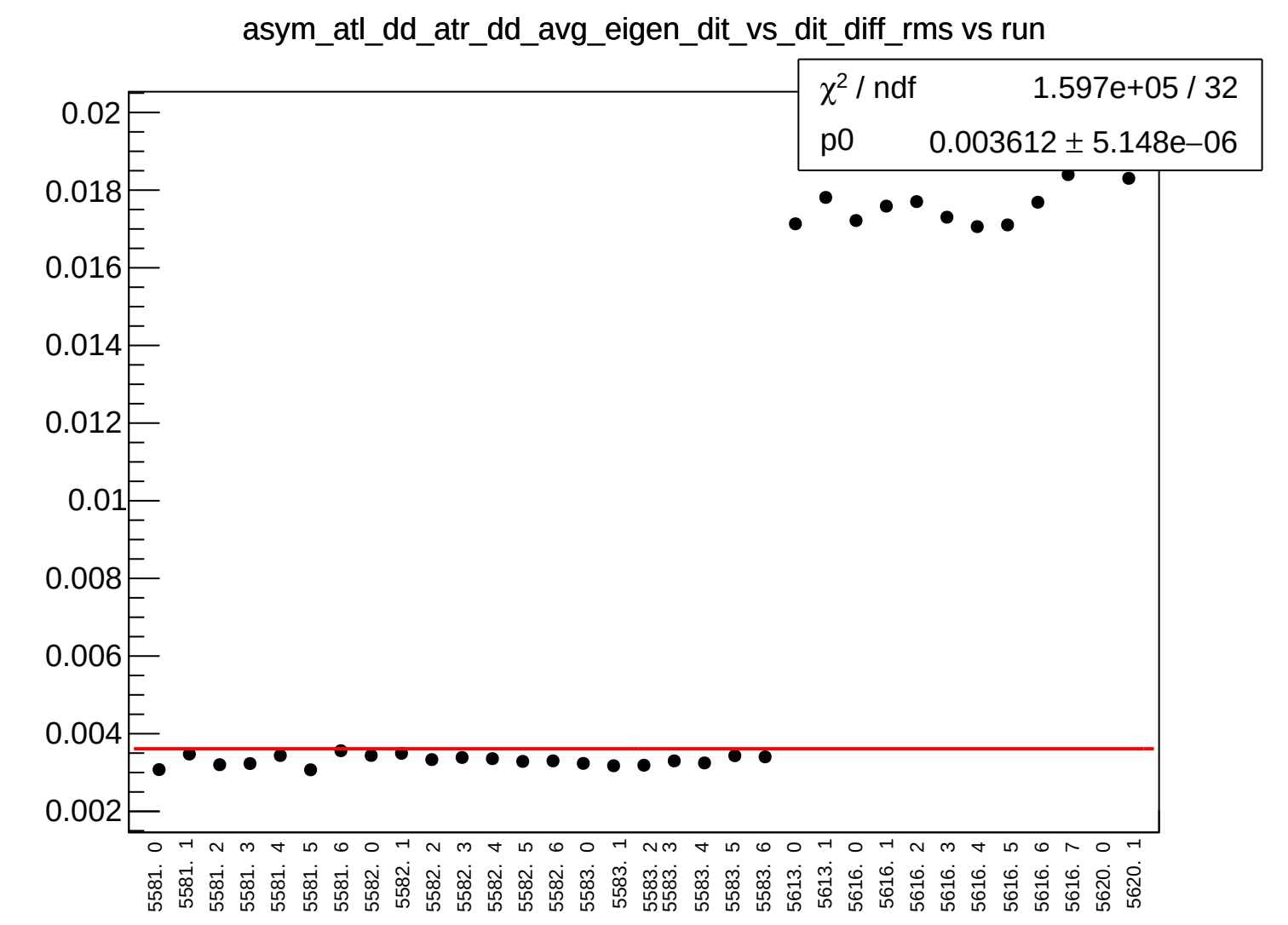

pull1D
Entries 33
Mean 0.1389
Std Dev 0.8198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

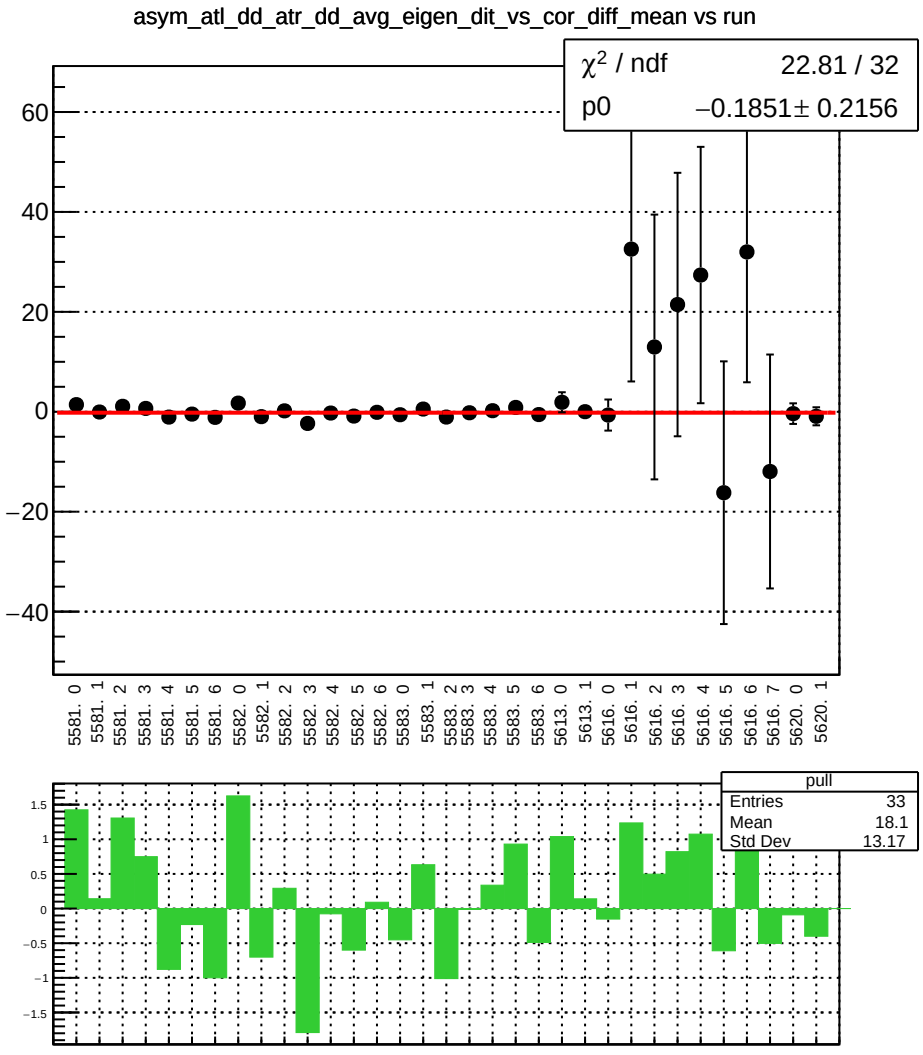

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 32
p0 107.4 ± 0.1525
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

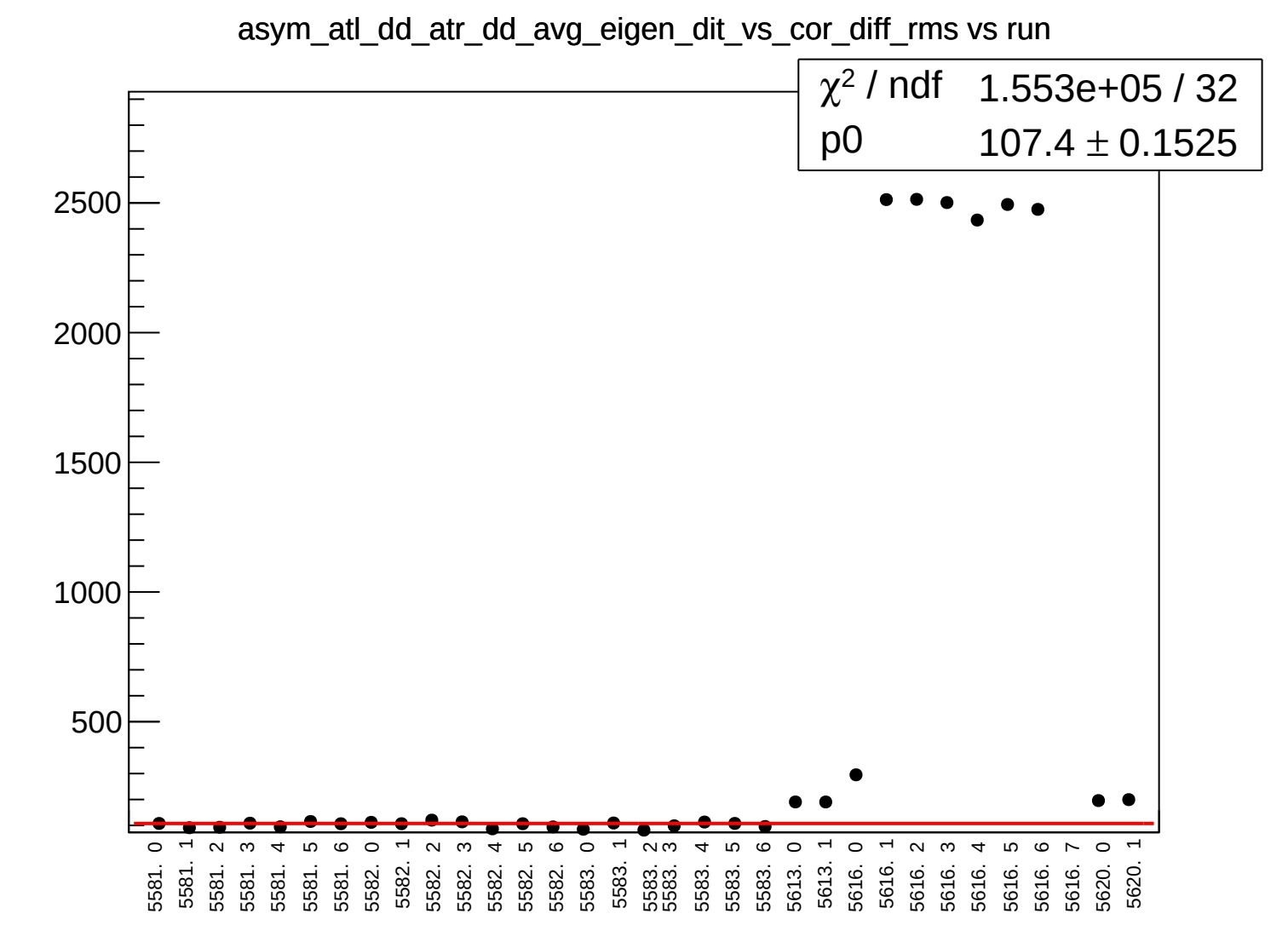

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.81 / 32
p0 −0.1851± 0.2156
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.1
Std Dev 13.17
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1389
Std Dev 0.8198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

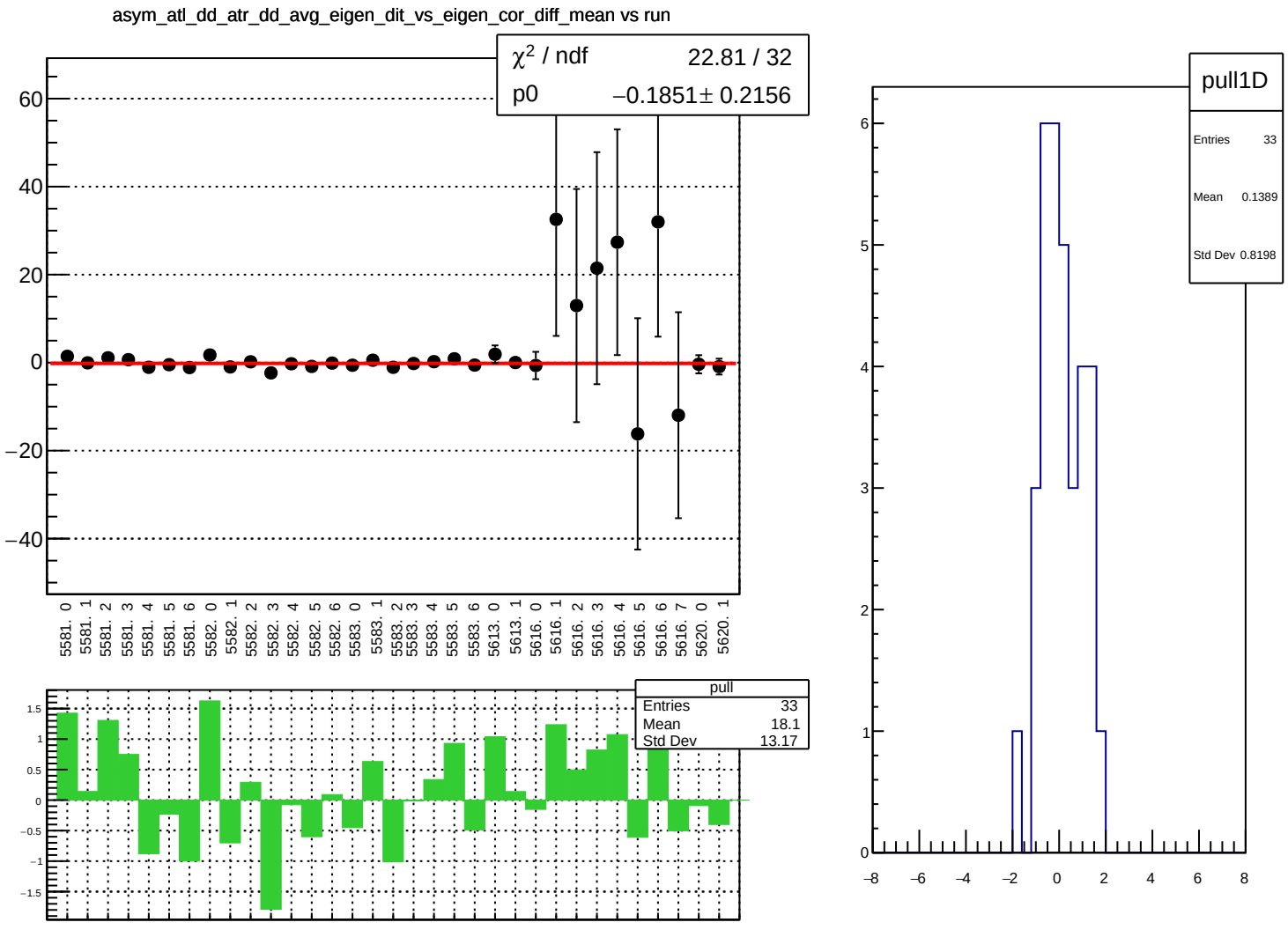

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 32
p0 107.4 ± 0.1525
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

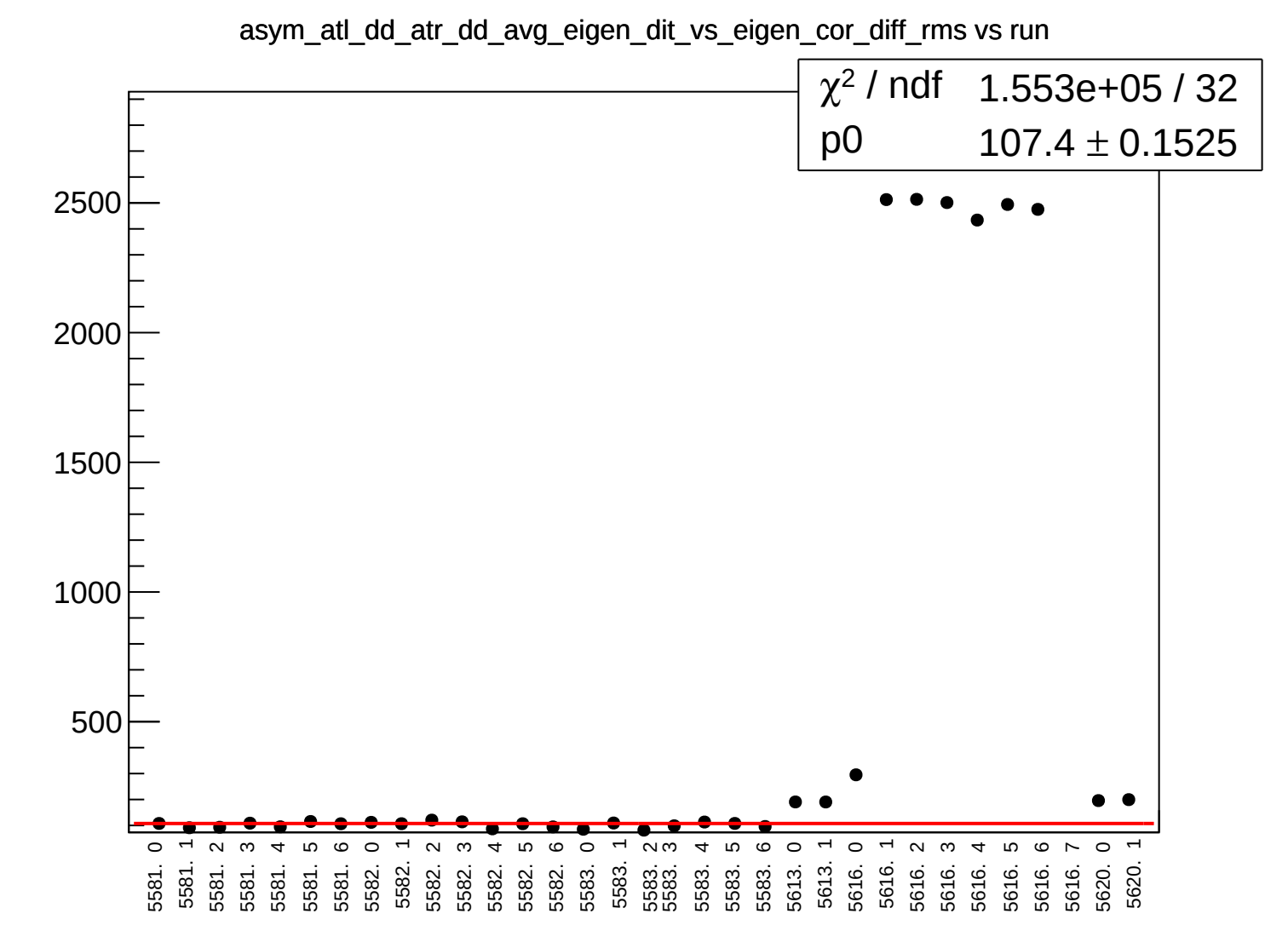

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.04 / 32
p0 3.7e−06 ± 7.281e−06
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.03575
Std Dev 0.9534
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

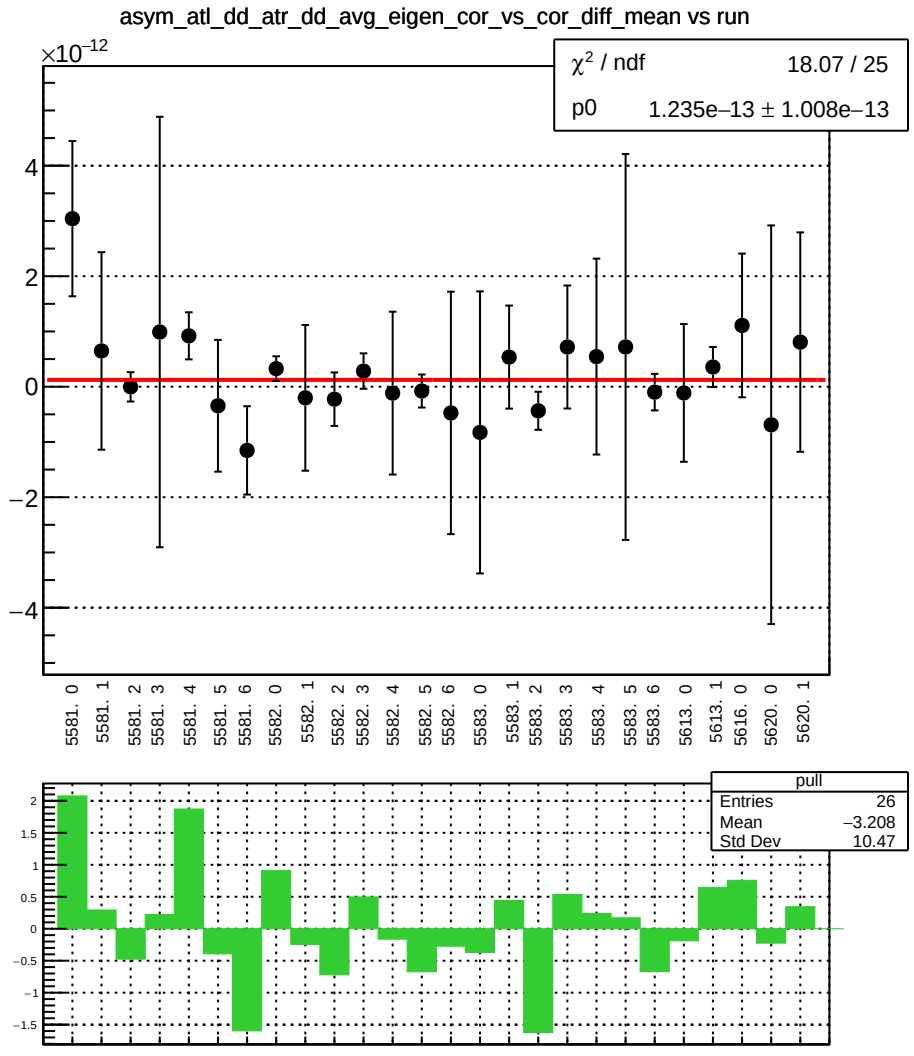

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.597e+05 / 32
p0 0.003612 ± 5.148e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

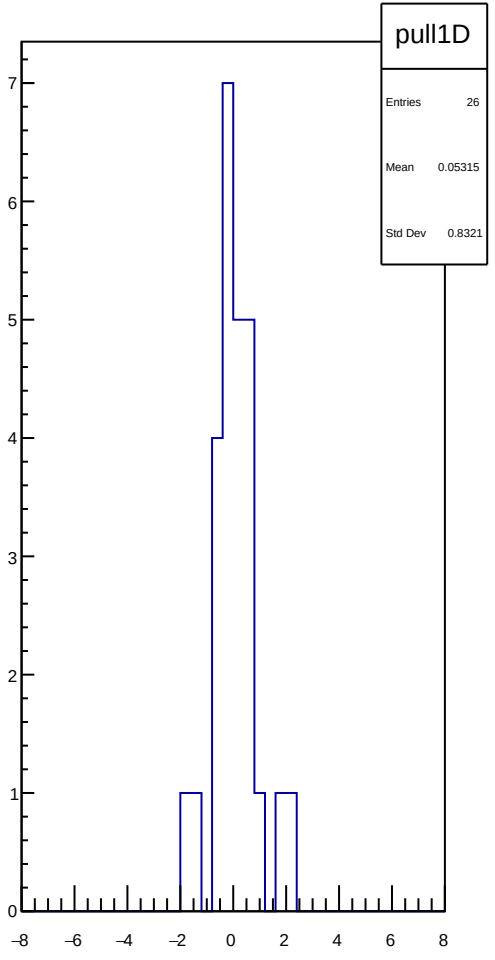

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.81 / 32
p0 −0.1851± 0.2156
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.1
Std Dev 13.17
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1389
Std Dev 0.8198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

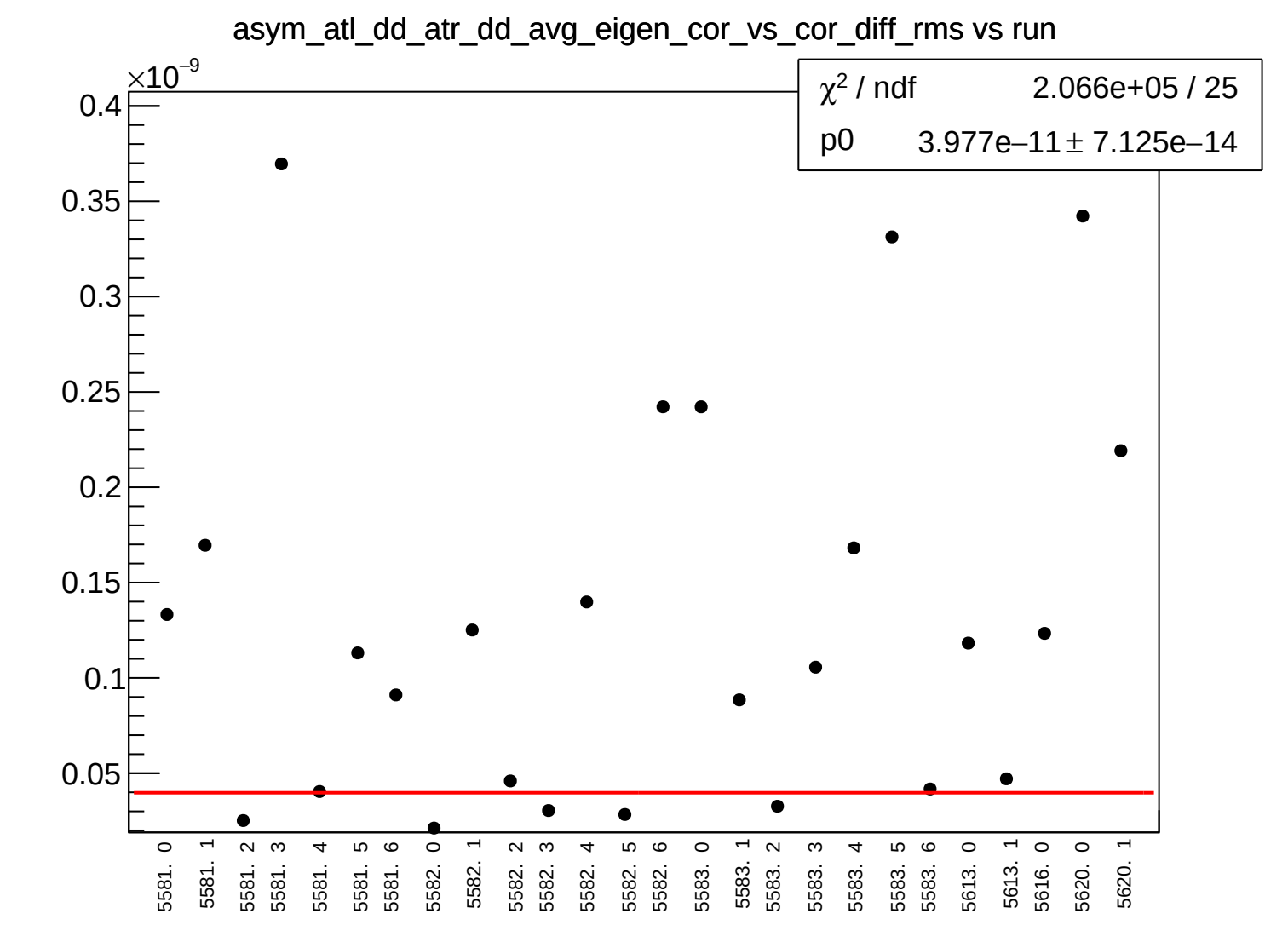

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 32
p0 107.4 ± 0.1525
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

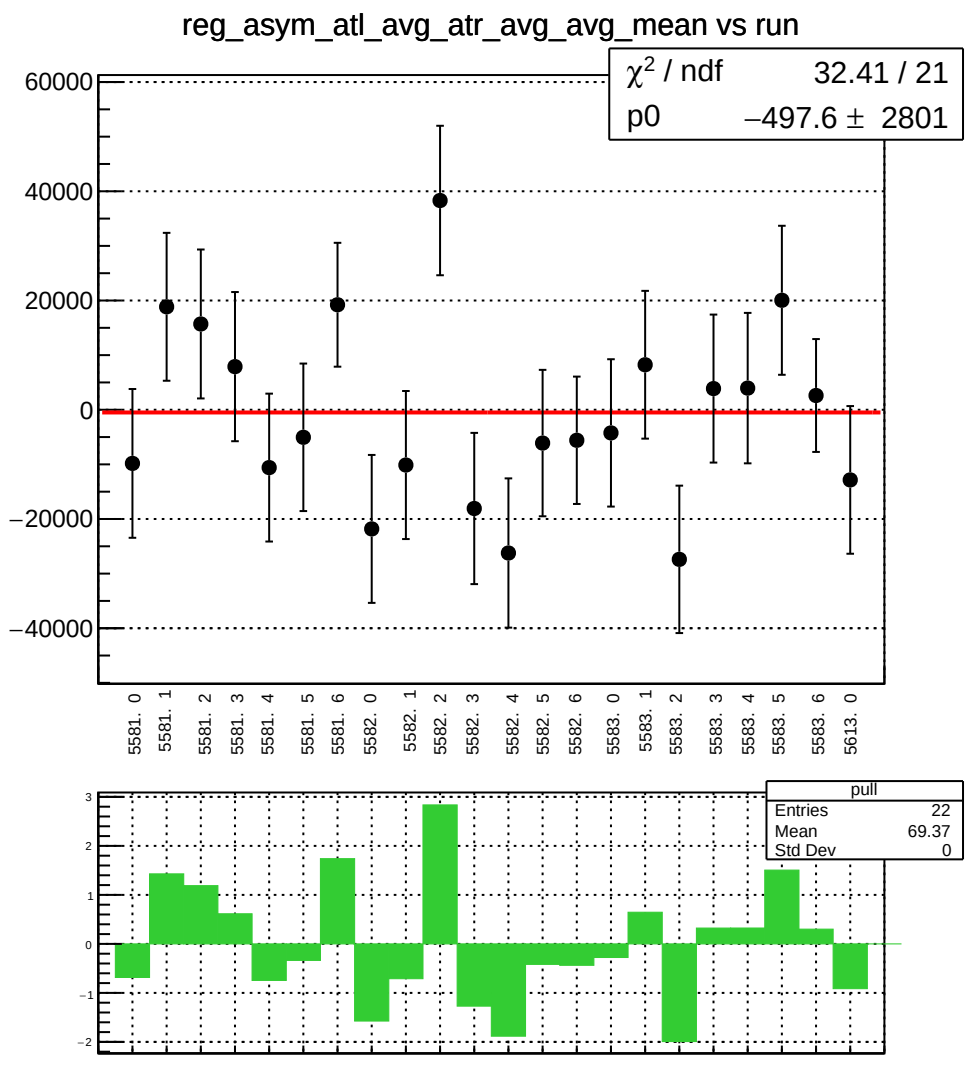

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.81 / 32
p0 −0.1851± 0.2156
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.1
Std Dev 13.17
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1389
Std Dev 0.8198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

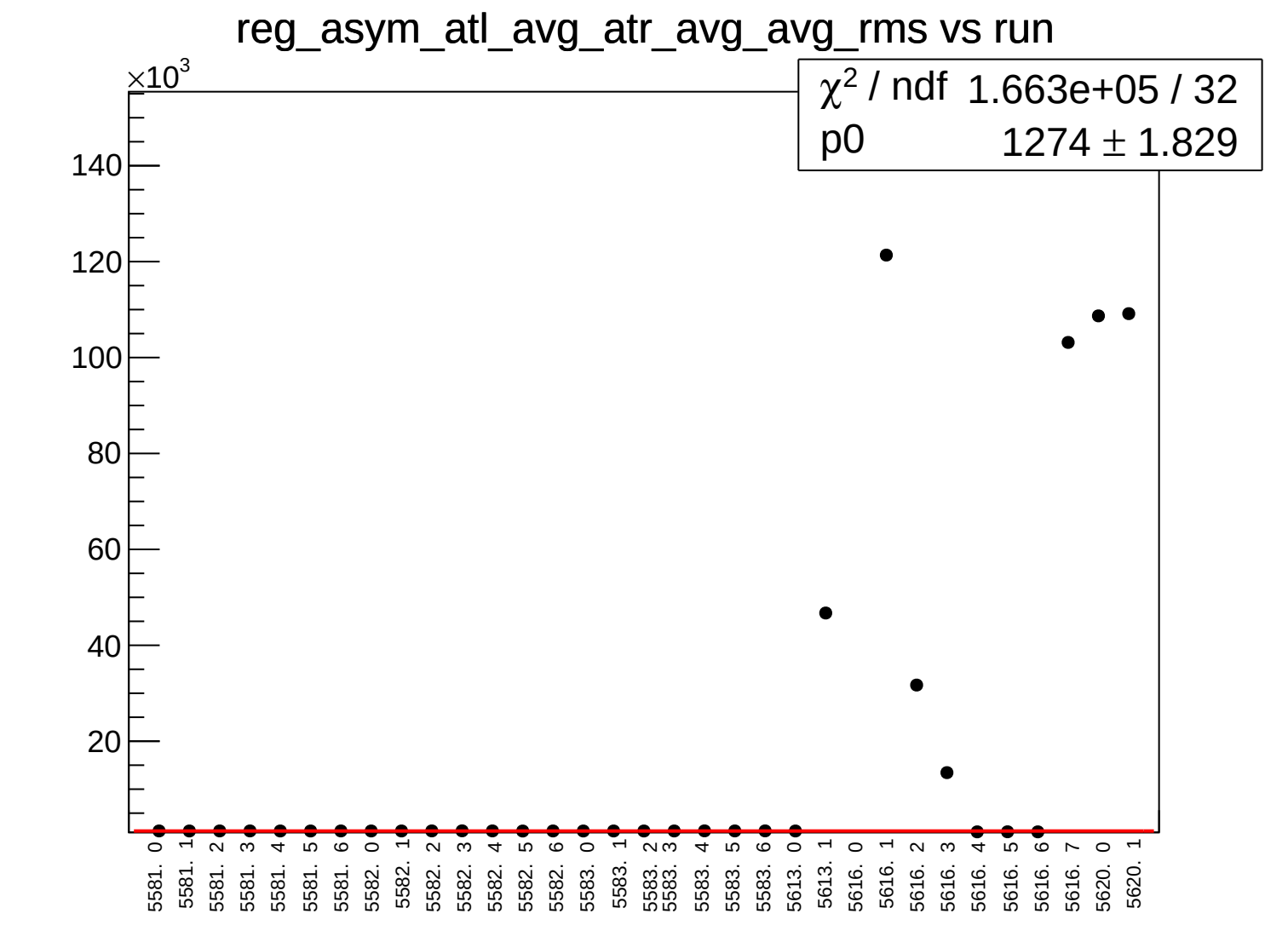

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 32
p0 107.4 ± 0.1525
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

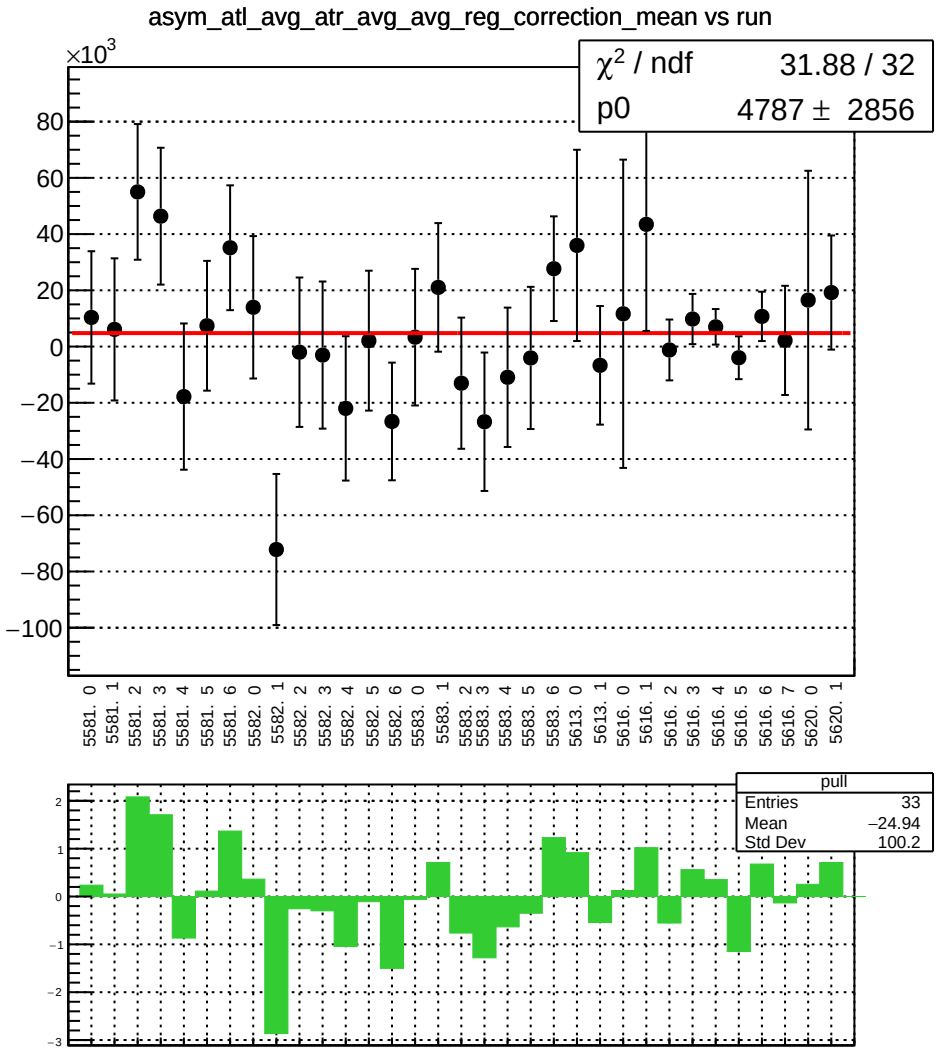

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 18.07 / 25
p0 1.235e−13 ± 1.008e−13
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −3.208
Std Dev 10.47
2
1.5
1
0.5
0
−0.5
−1
−1.5

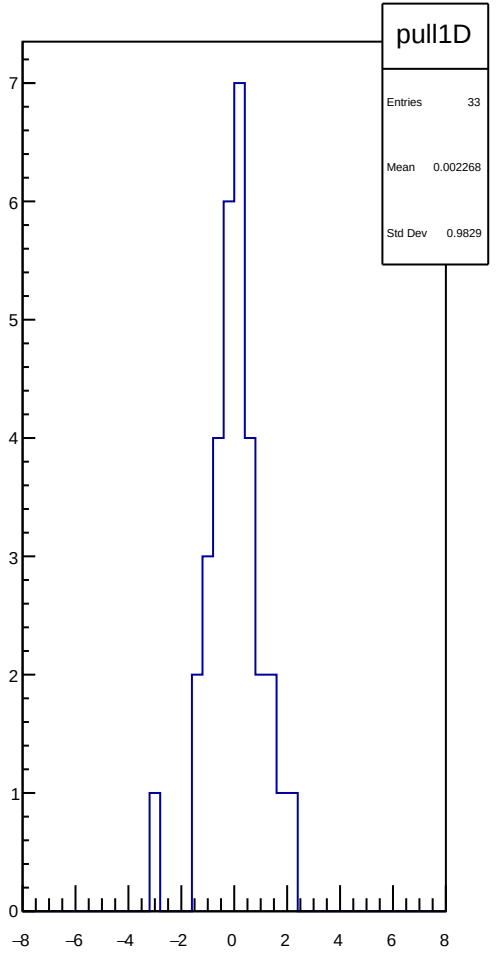

pull1D
Entries 26
Mean 0.05315
Std Dev 0.8321
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

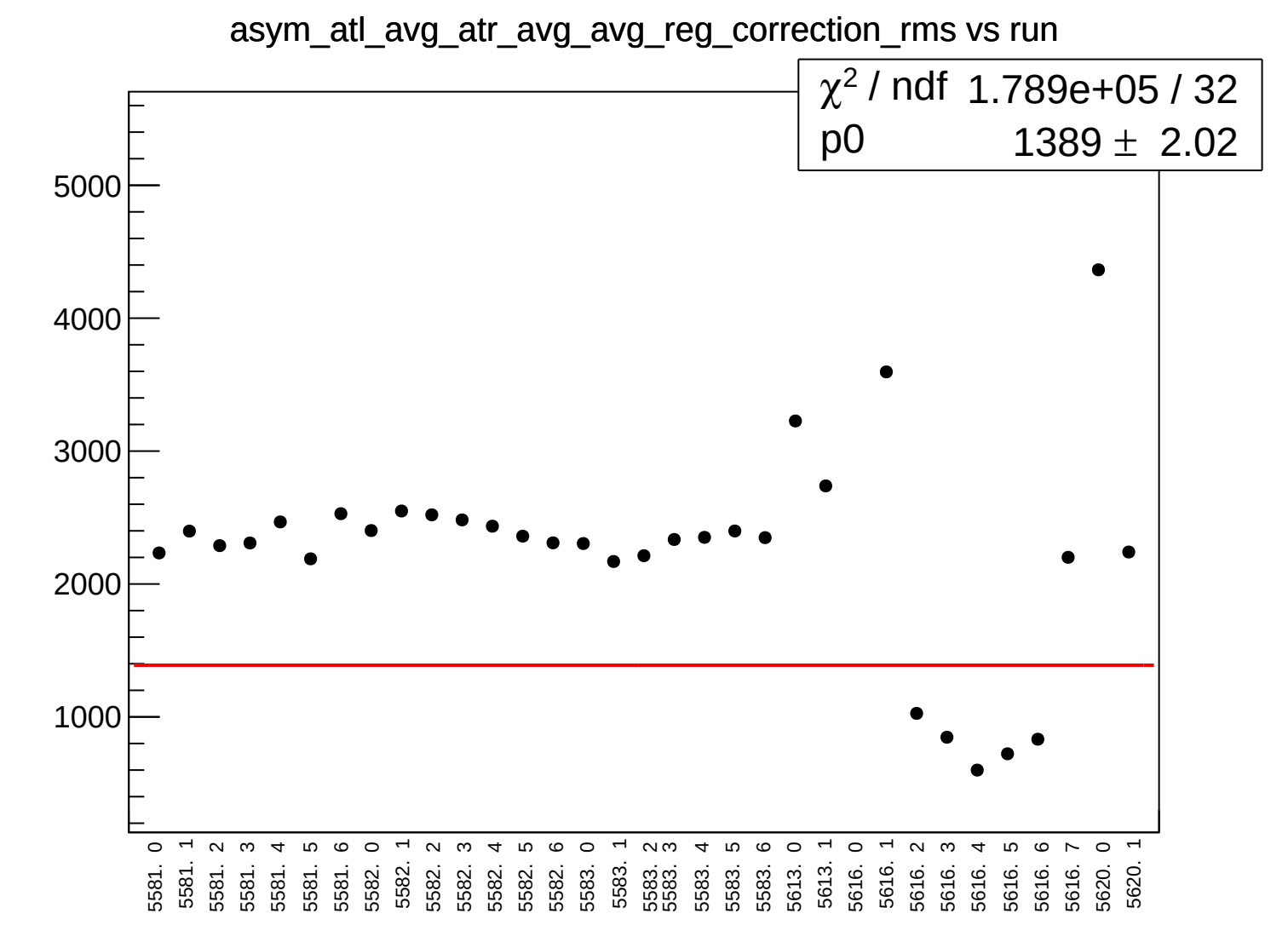

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.066e+05 / 25
p0 3.977e−11 ± 7.125e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

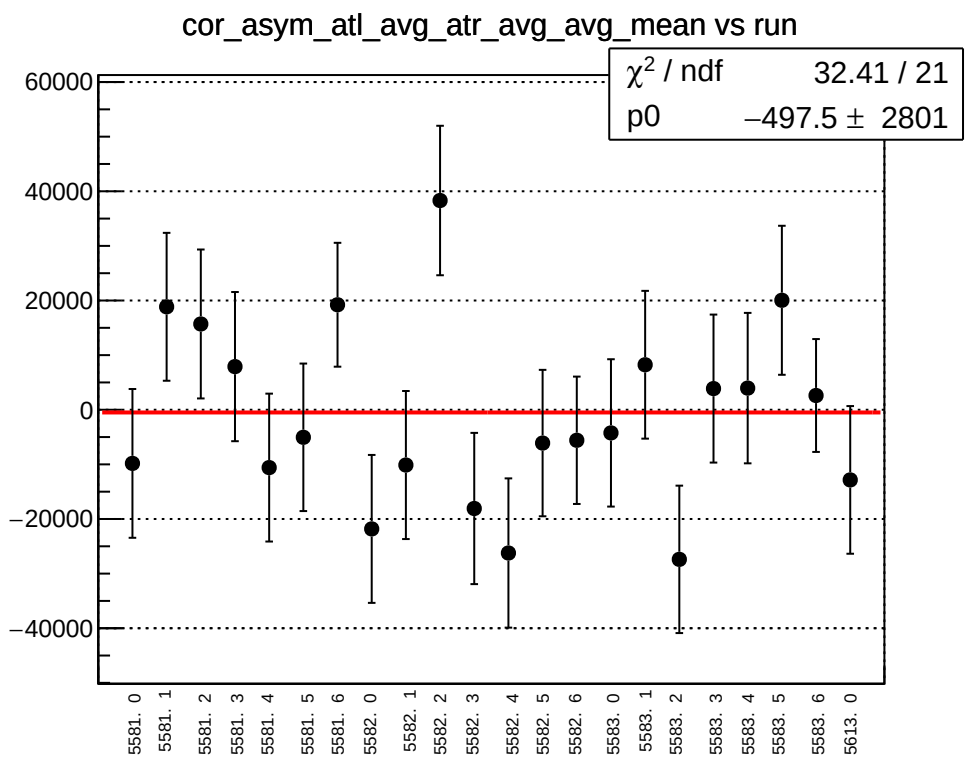

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 32.41 / 21
p0 −497.6 ± 2801
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 69.37
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 22
Mean −0.01531
Std Dev 1.214
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

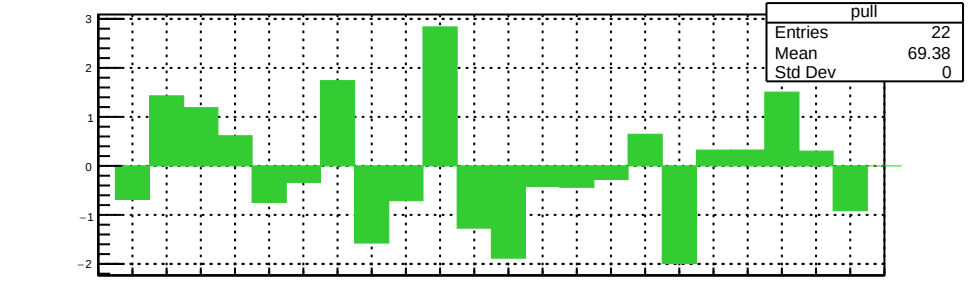

reg_asym_atl_avg_atr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.663e+05 / 32
p0 1274 ± 1.829
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

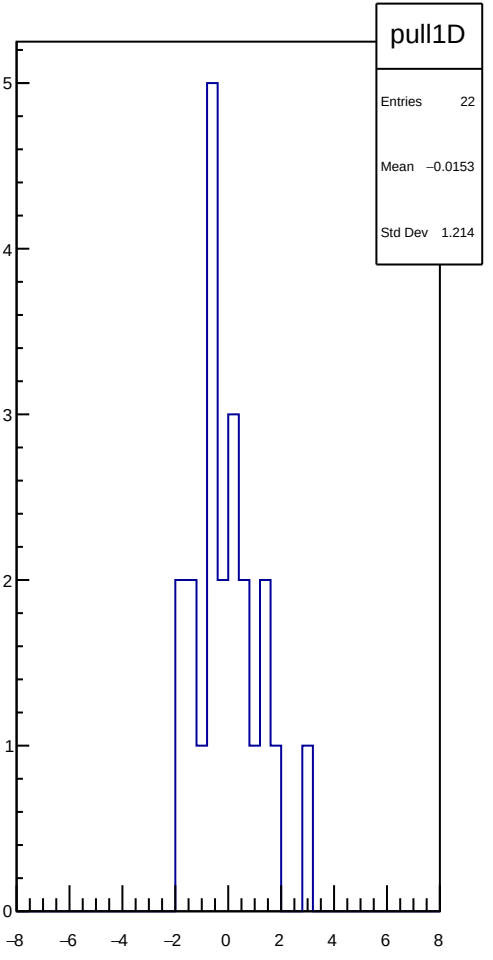

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 31.88 / 32
p0 4787 ± 2856
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −24.94
Std Dev 100.2
2
1
0
−1
−2
−3

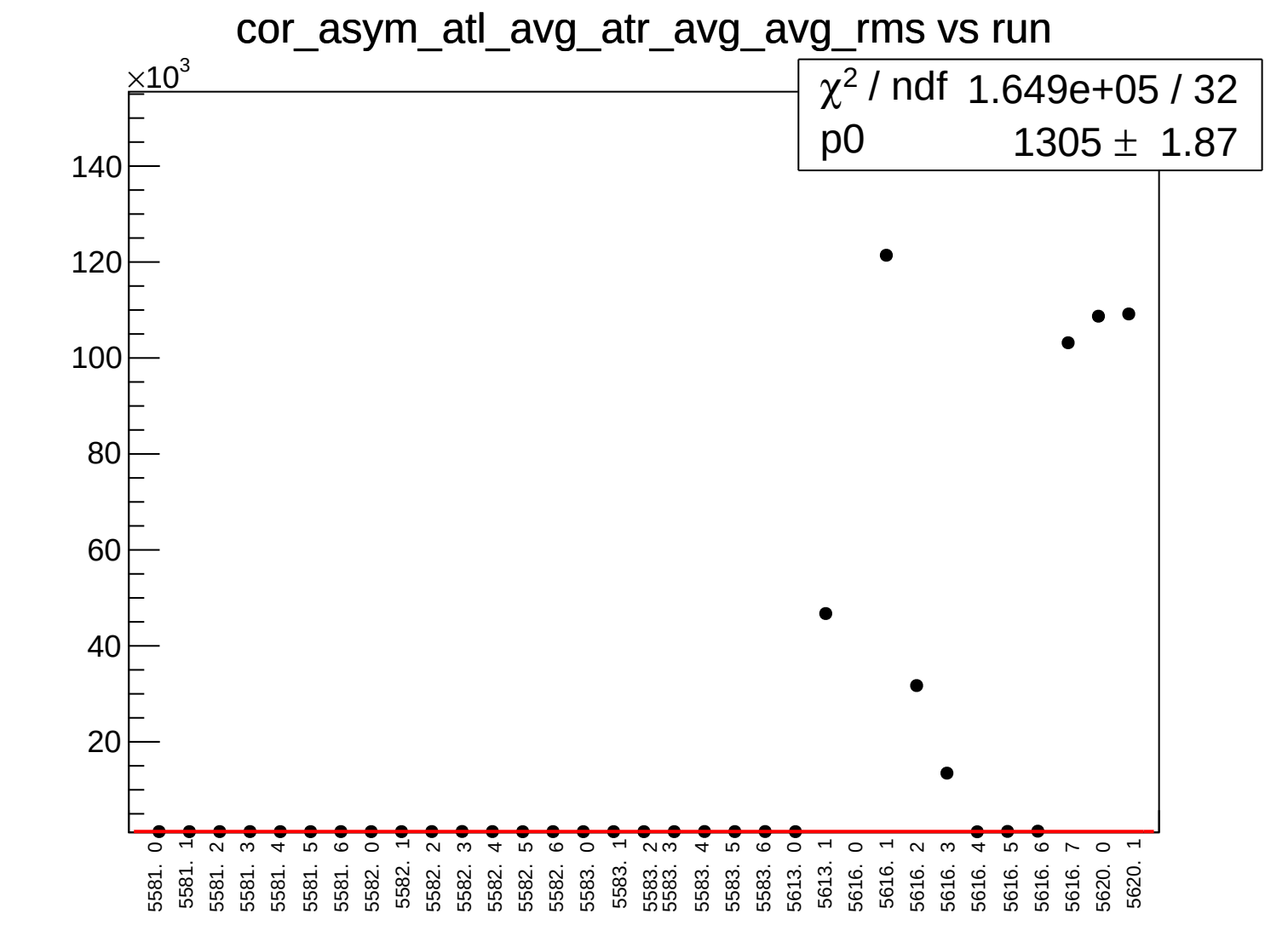

pull1D
Entries 33
Mean 0.002268
Std Dev 0.9829
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

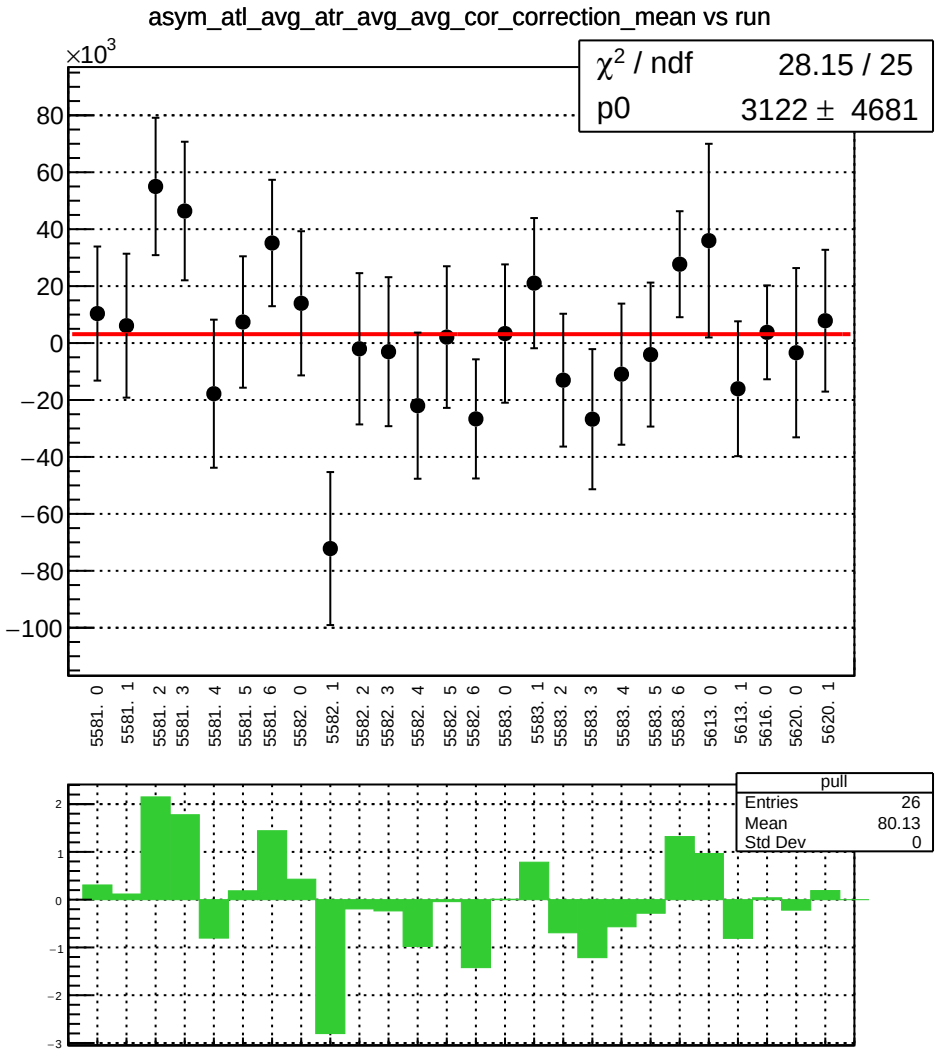

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.789e+05 / 32
p0 1389 ± 2.02
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

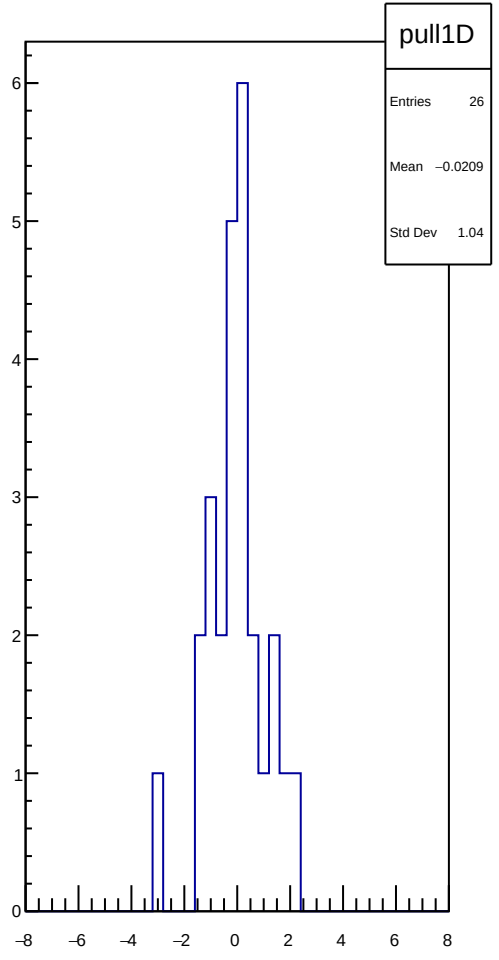

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 32.41 / 21
p0 −497.5 ± 2801
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

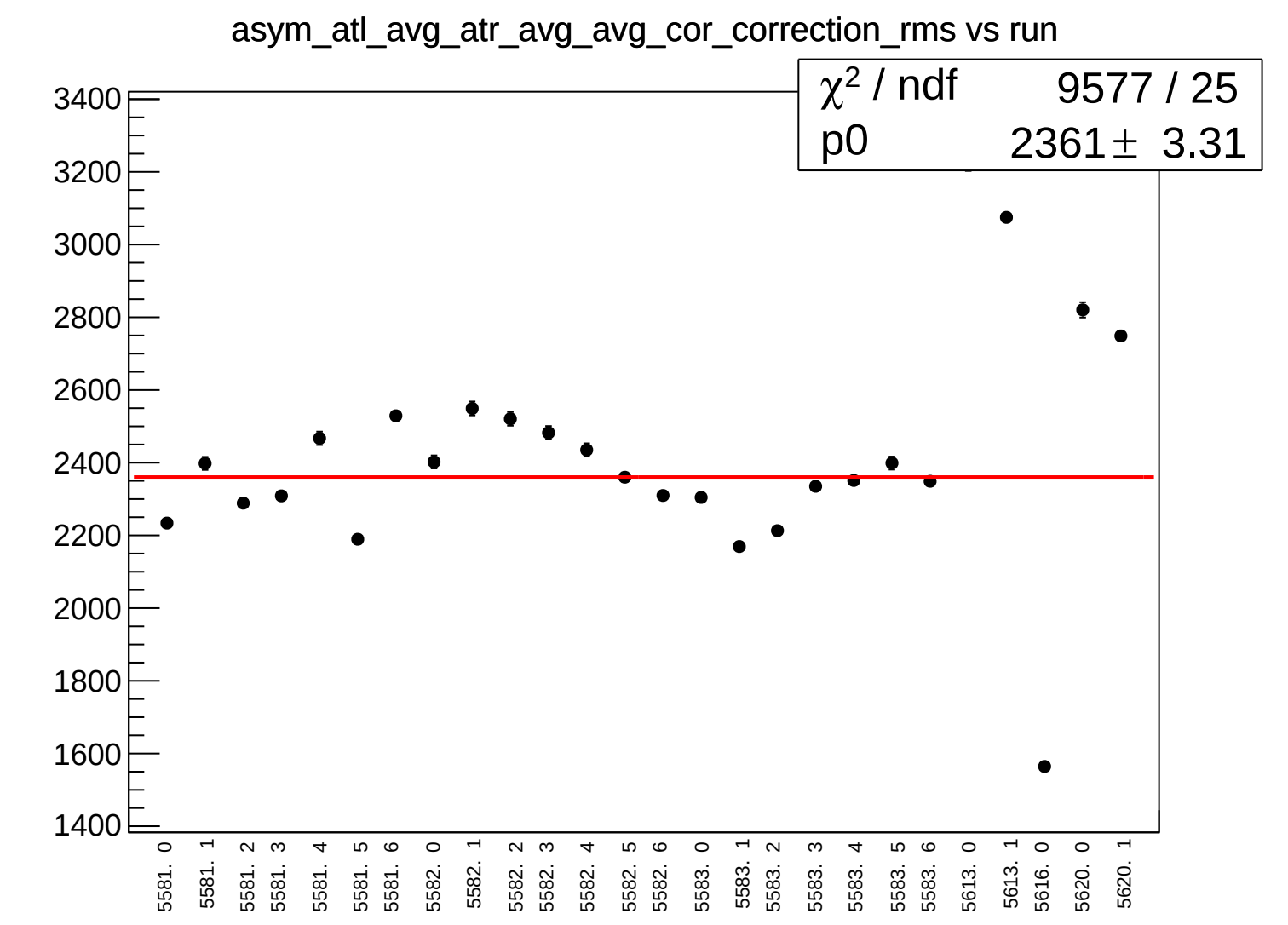

pull
Entries 22
Mean 69.38
Std Dev 0
3
2
1
0
−1
−2

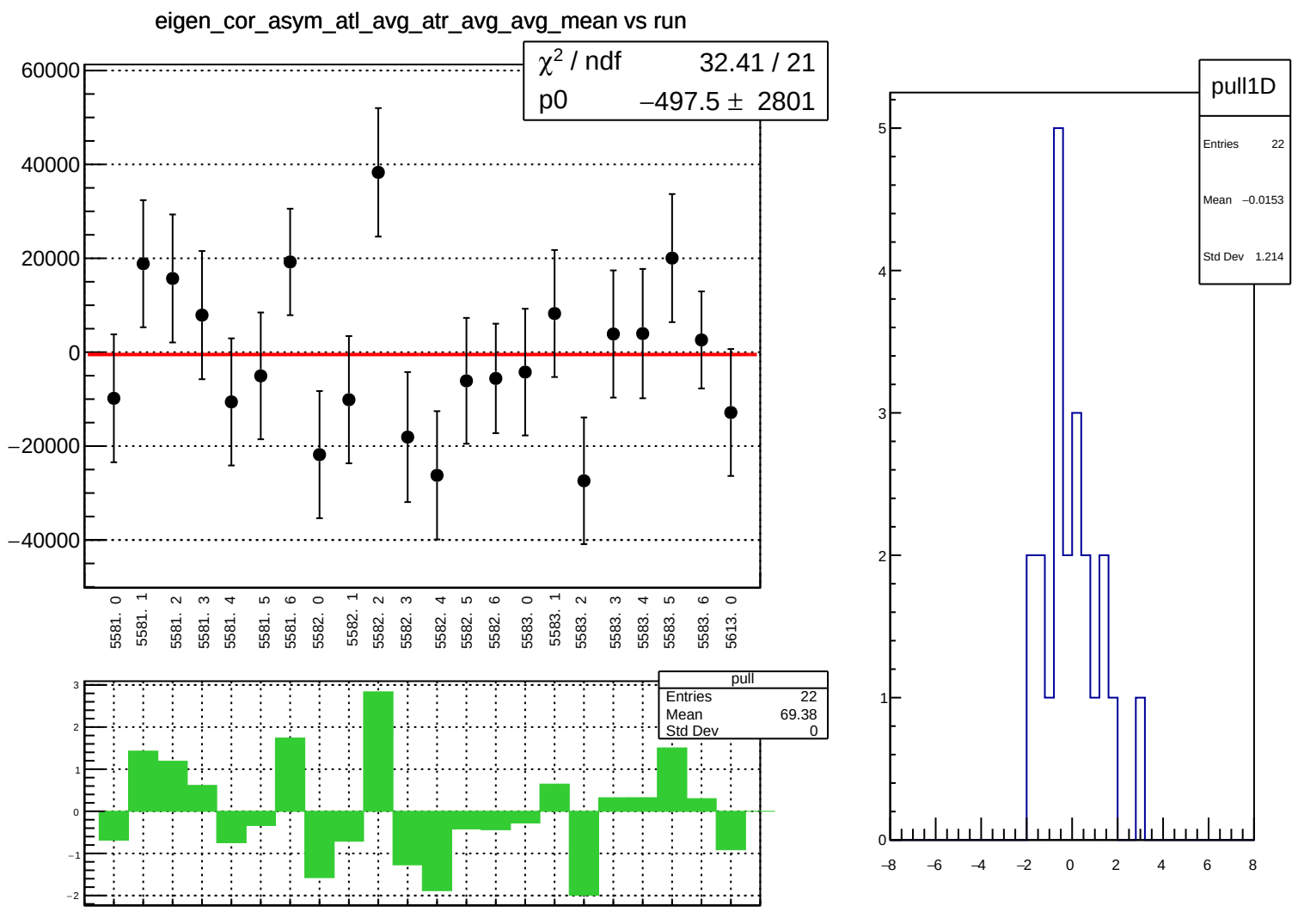

pull1D
Entries 22
Mean −0.0153
Std Dev 1.214
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

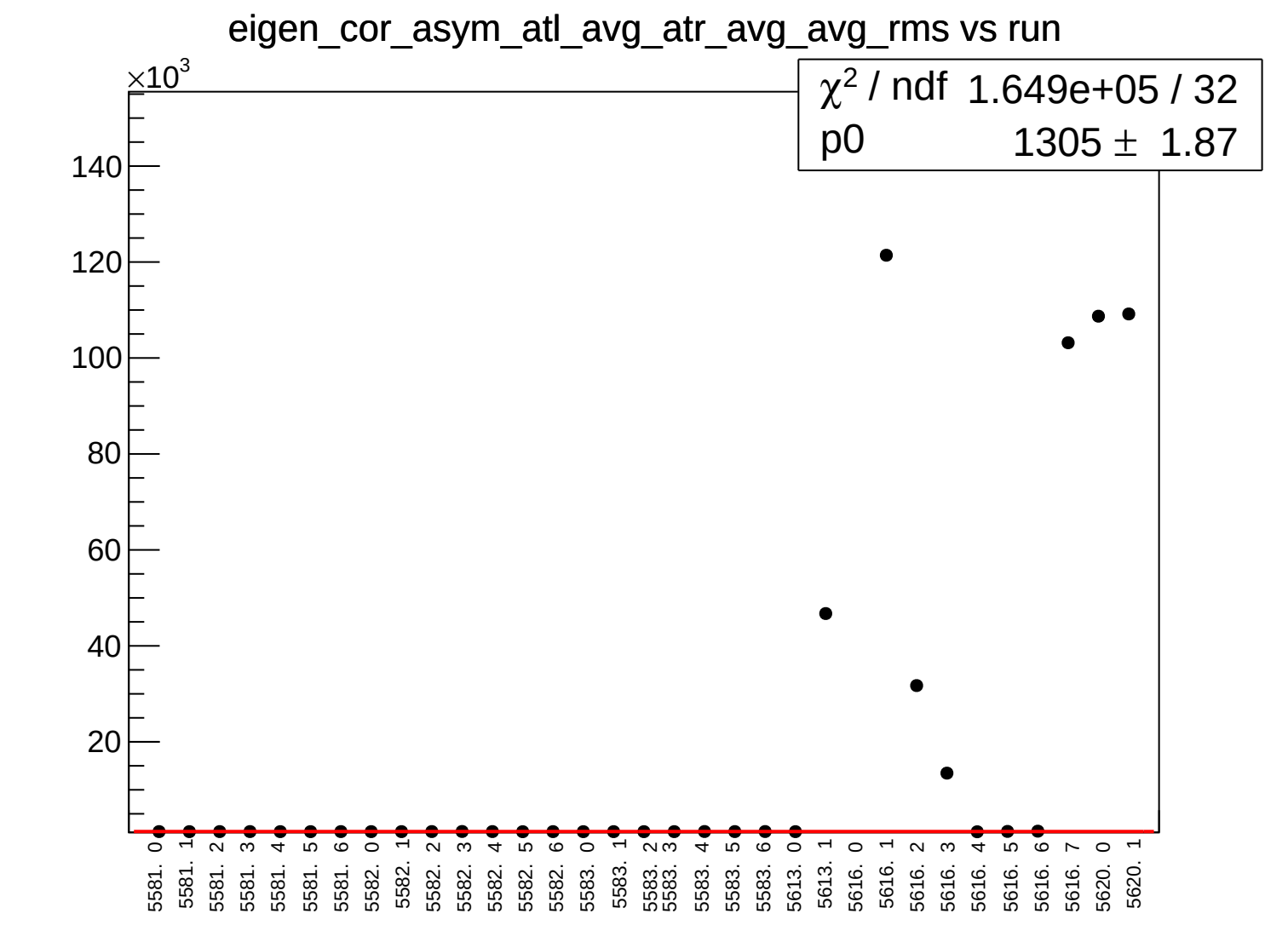

cor_asym_atl_avg_atr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.649e+05 / 32
p0 1305 ± 1.87
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

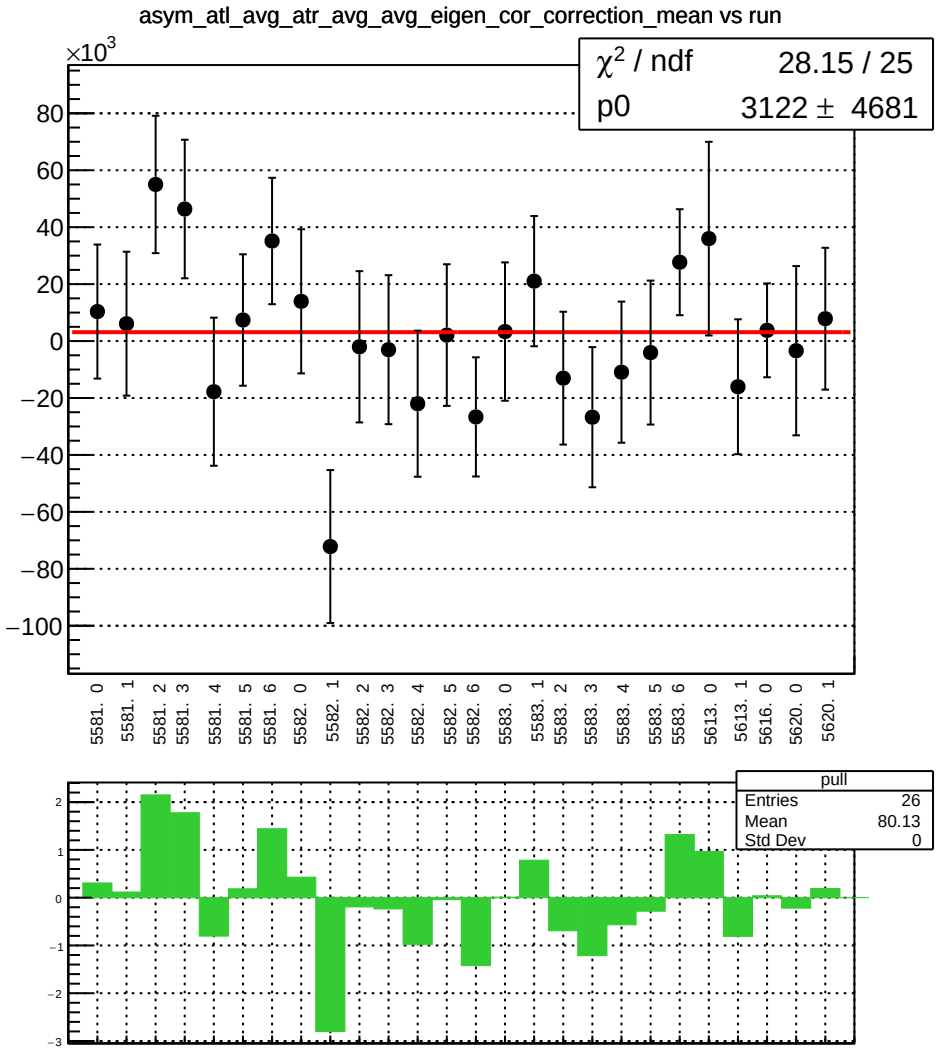

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 28.15 / 25
p0 3122 ± 4681
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 80.13
Std Dev 0
2
1
0
−1
−2
−3

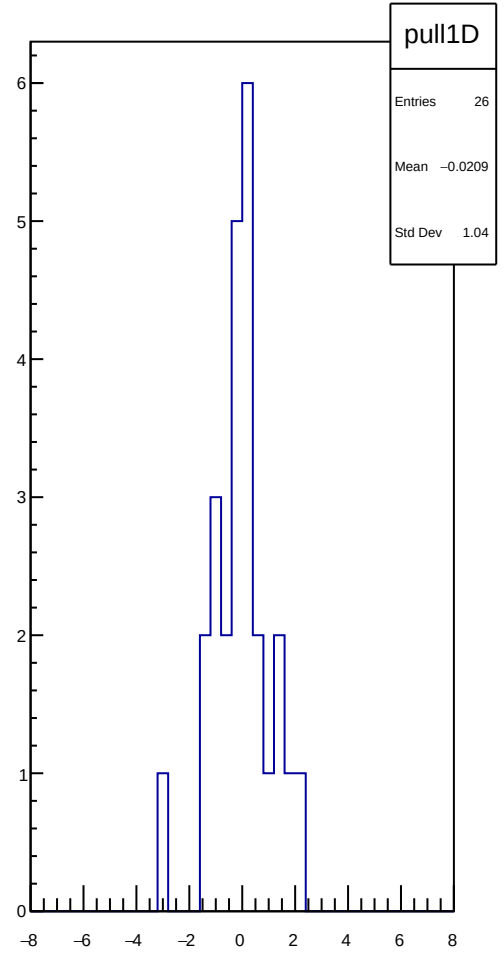

pull1D
Entries 26
Mean −0.0209
Std Dev 1.04
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

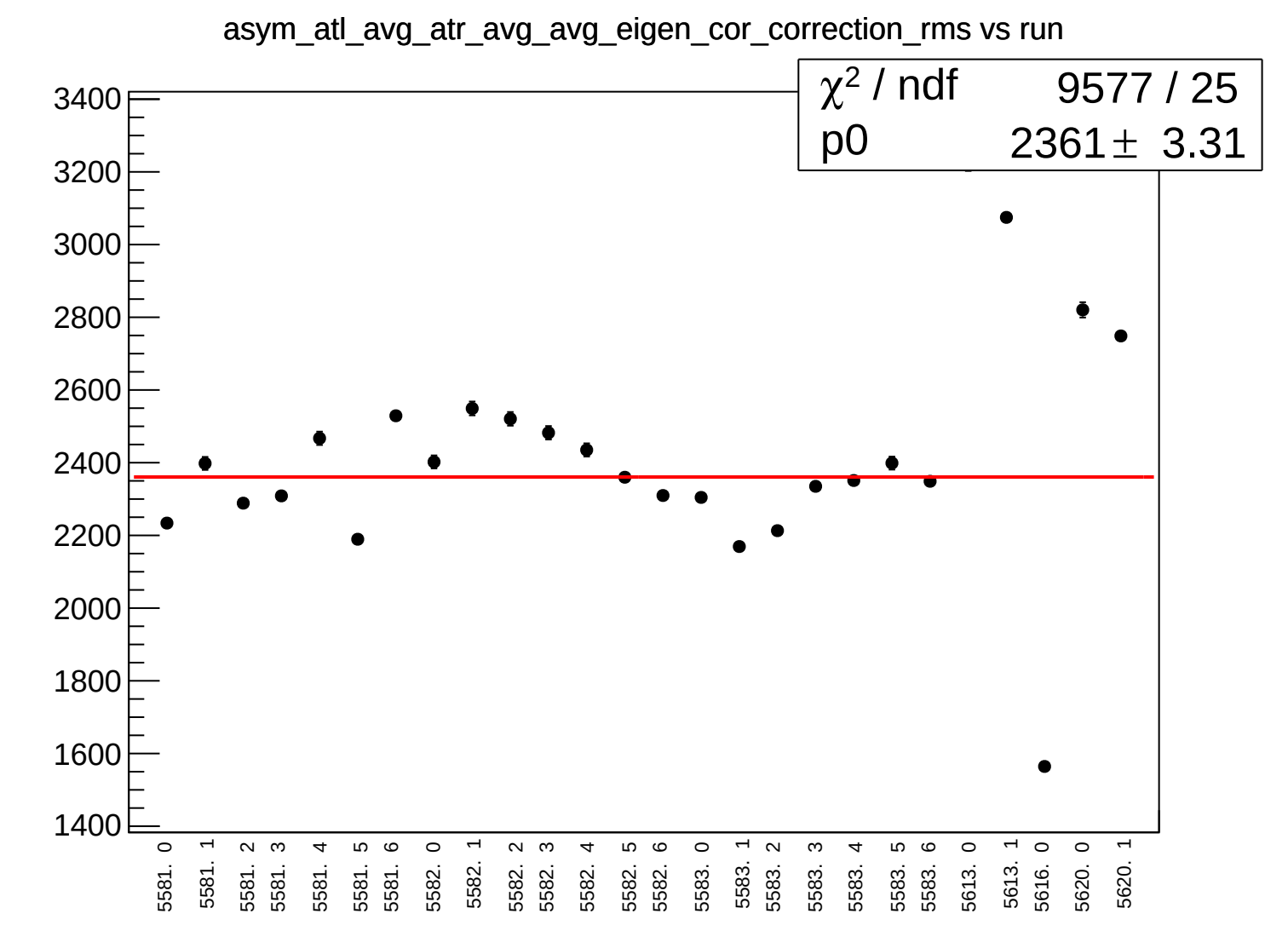

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 9577 / 25
p0 2361 ± 3.31
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

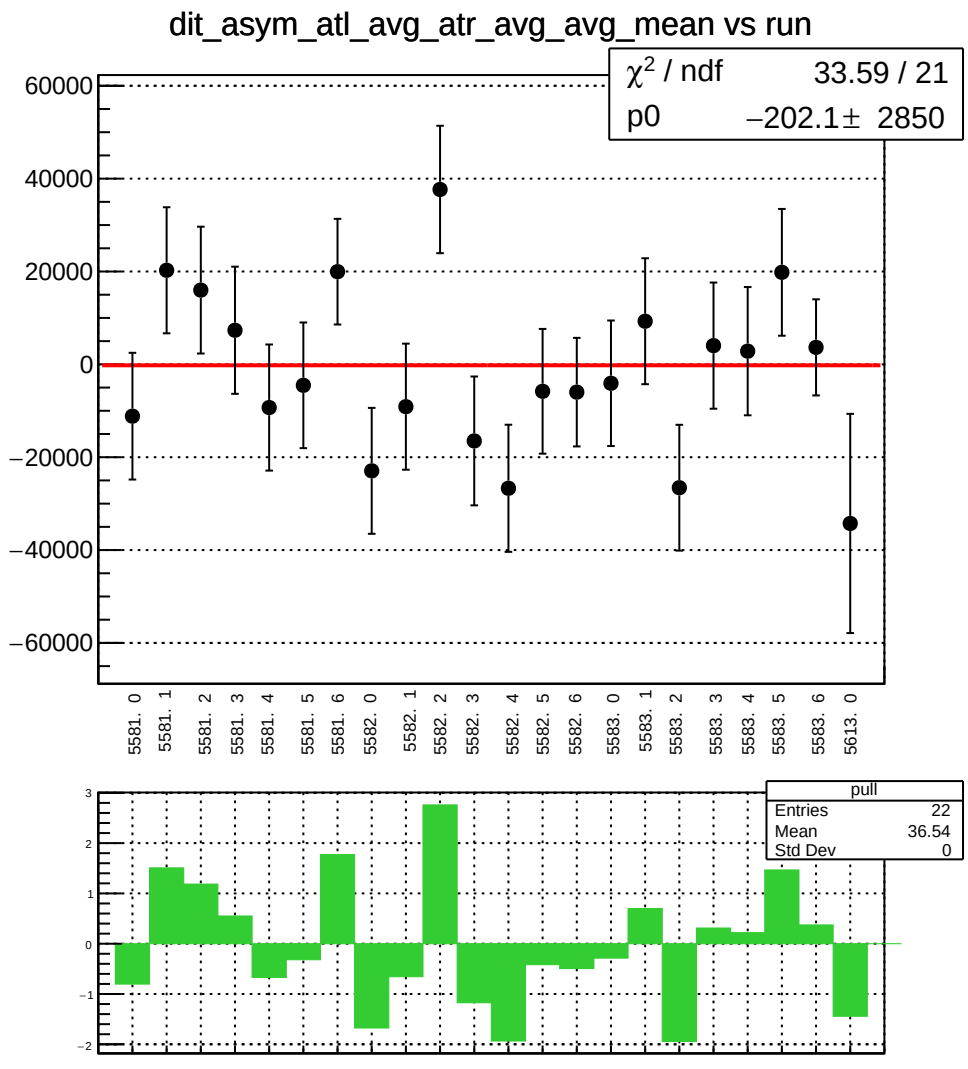

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 32.41 / 21
p0 −497.5 ± 2801
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 69.38
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 22
Mean −0.0153
Std Dev 1.214
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

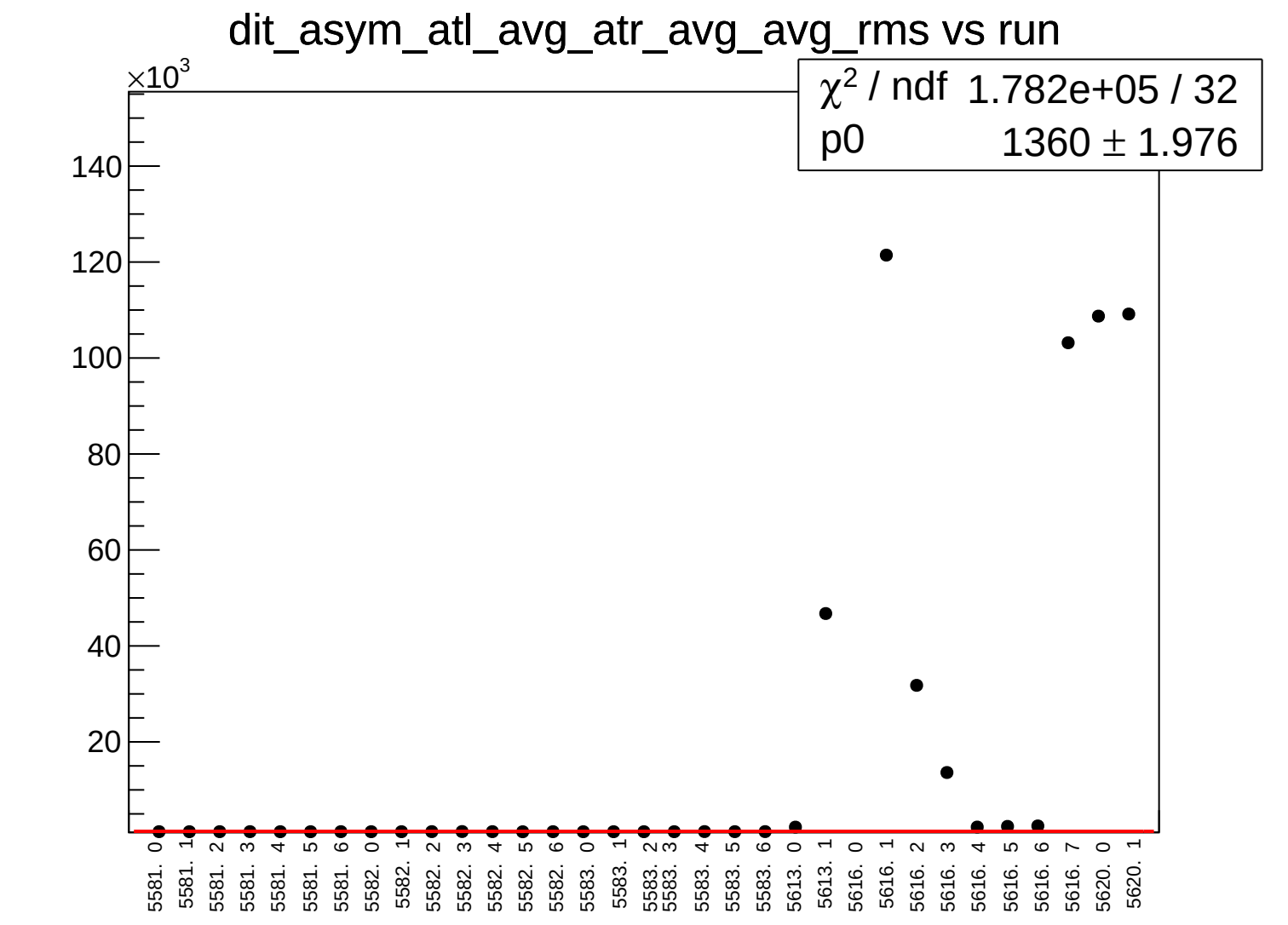

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.649e+05 / 32
p0 1305 ± 1.87
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

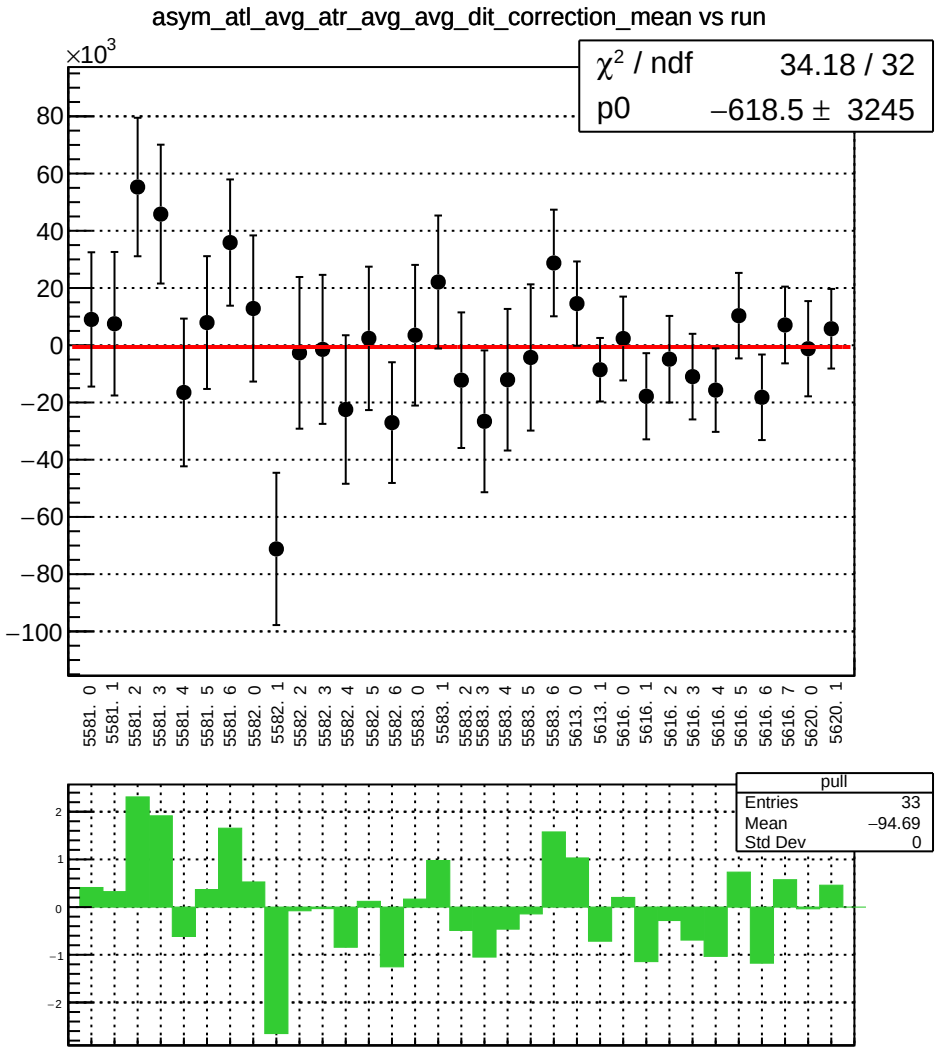

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 28.15 / 25
p0 3122 ± 4681
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 80.13
Std Dev 0
2
1
0
−1
−2
−3

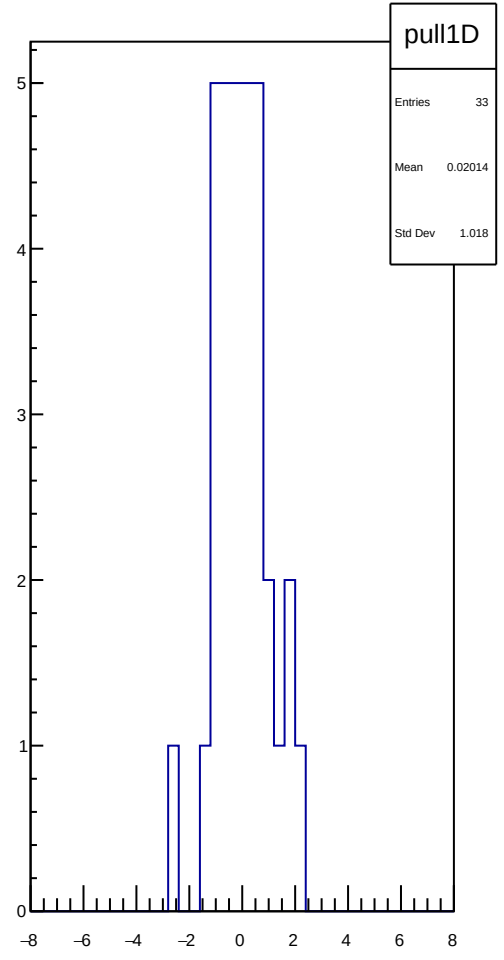

pull1D
Entries 26
Mean −0.0209
Std Dev 1.04
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

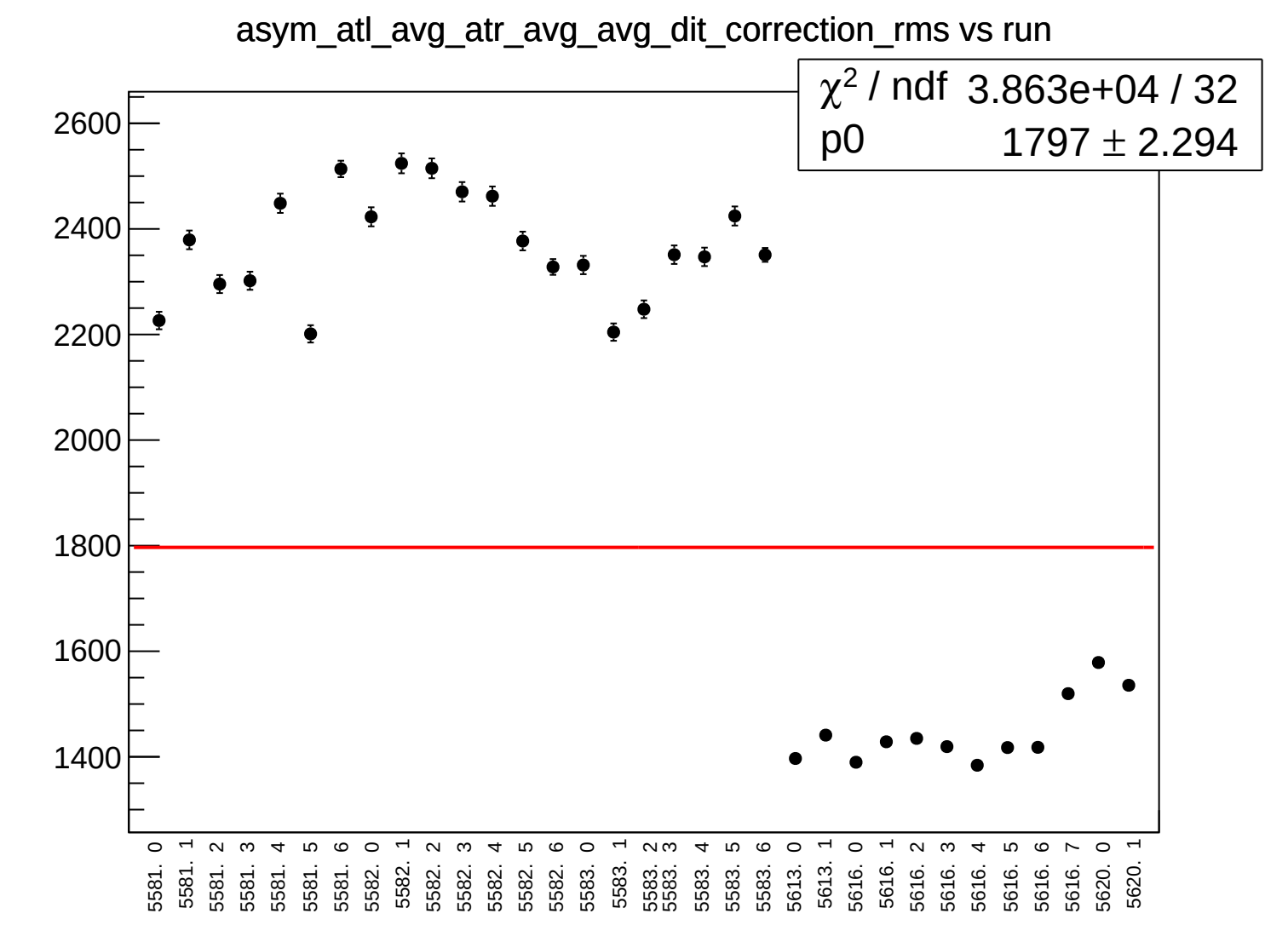

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 9577 / 25
p0 2361 ± 3.31
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

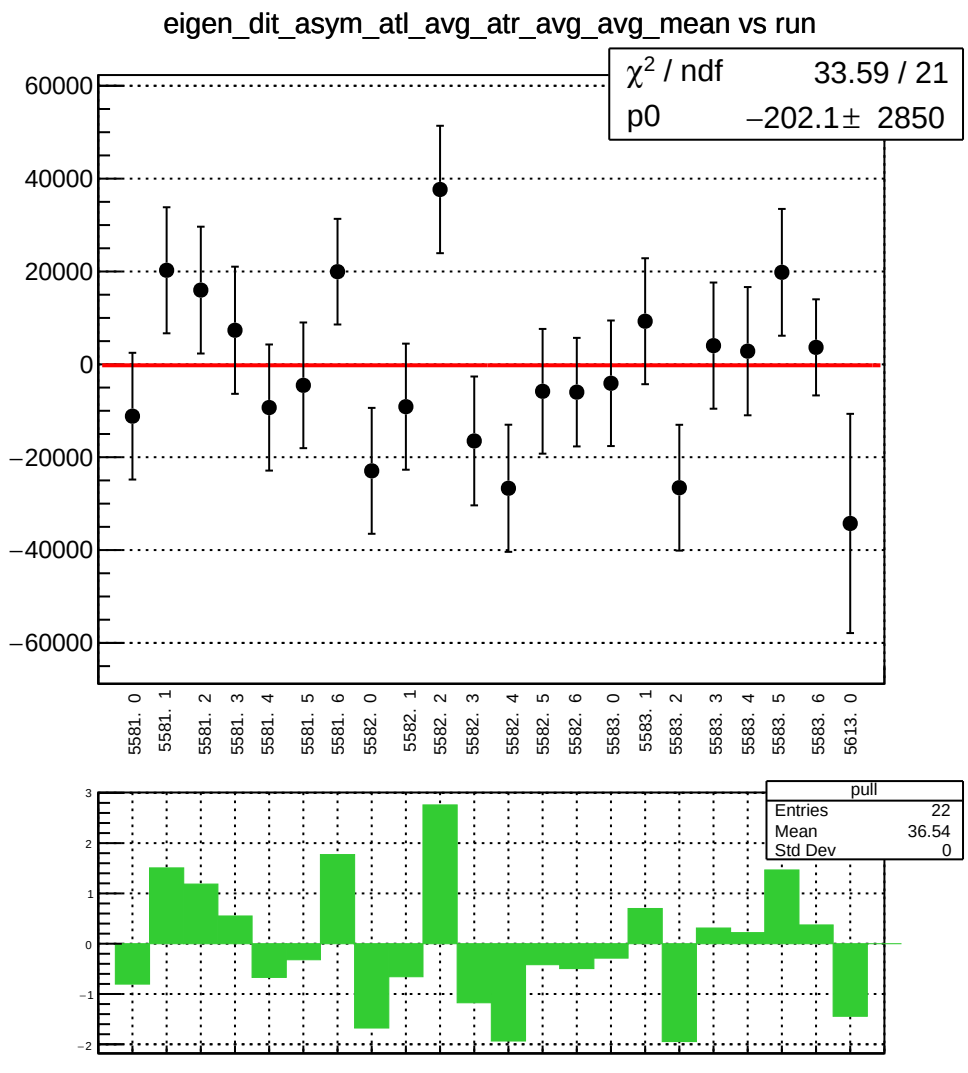

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 33.59 / 21
p0 −202.1± 2850
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 36.54
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 22
Mean −0.04424
Std Dev 1.235
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

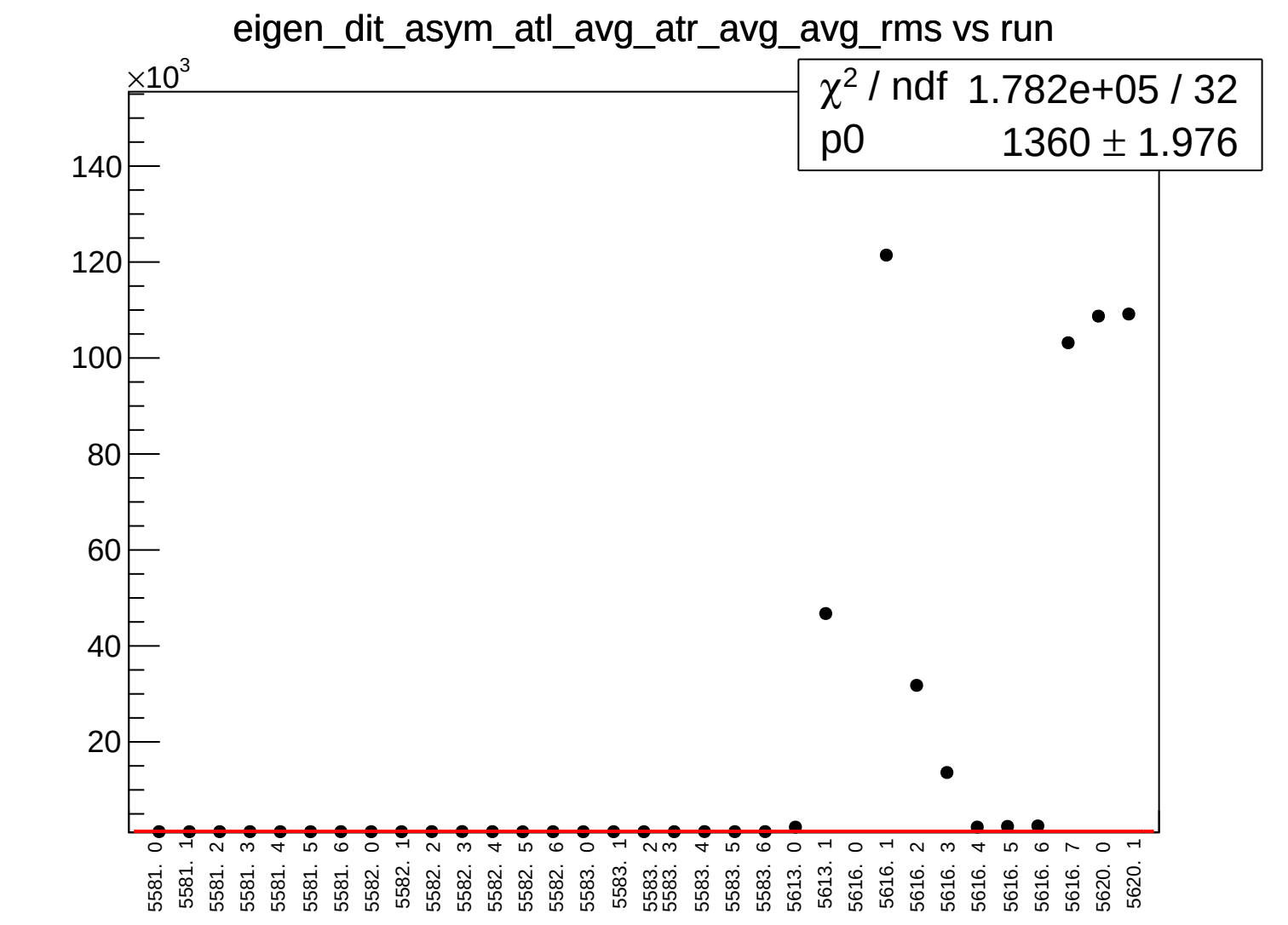

dit_asym_atl_avg_atr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.782e+05 / 32
p0 1360 ± 1.976
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

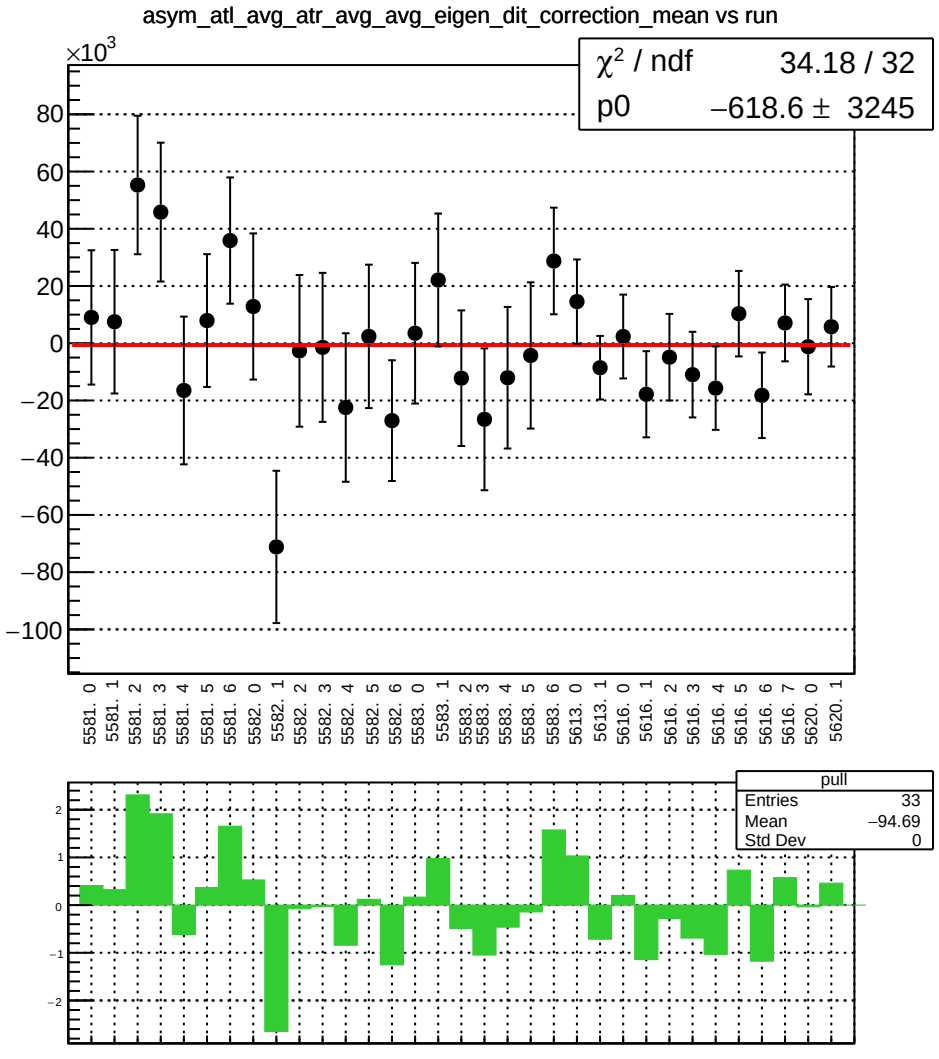

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 34.18 / 32
p0 −618.5 ± 3245
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −94.69
Std Dev 0
2
1
0
−1
−2

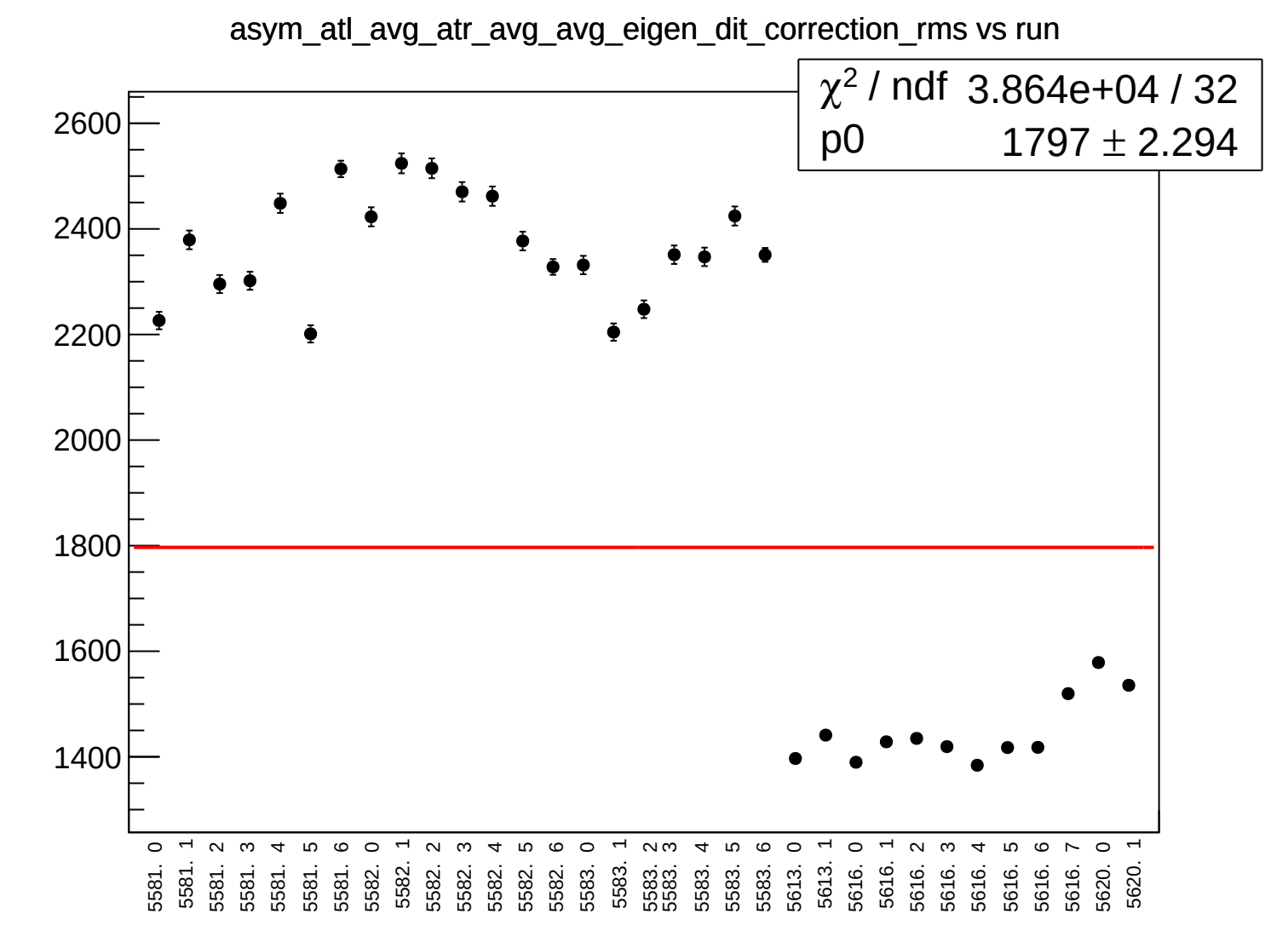

pull1D
Entries 33
Mean 0.02014
Std Dev 1.018
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

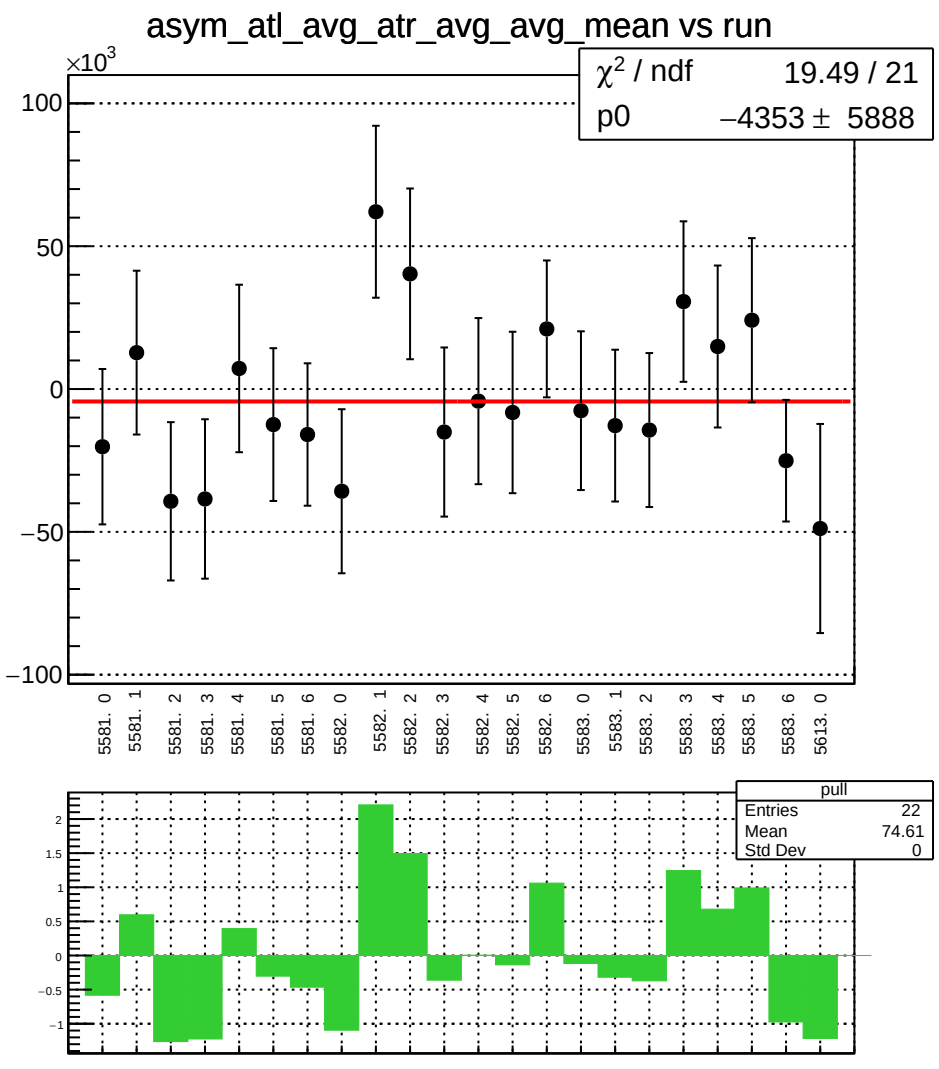

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.863e+04 / 32
p0 1797 ± 2.294
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

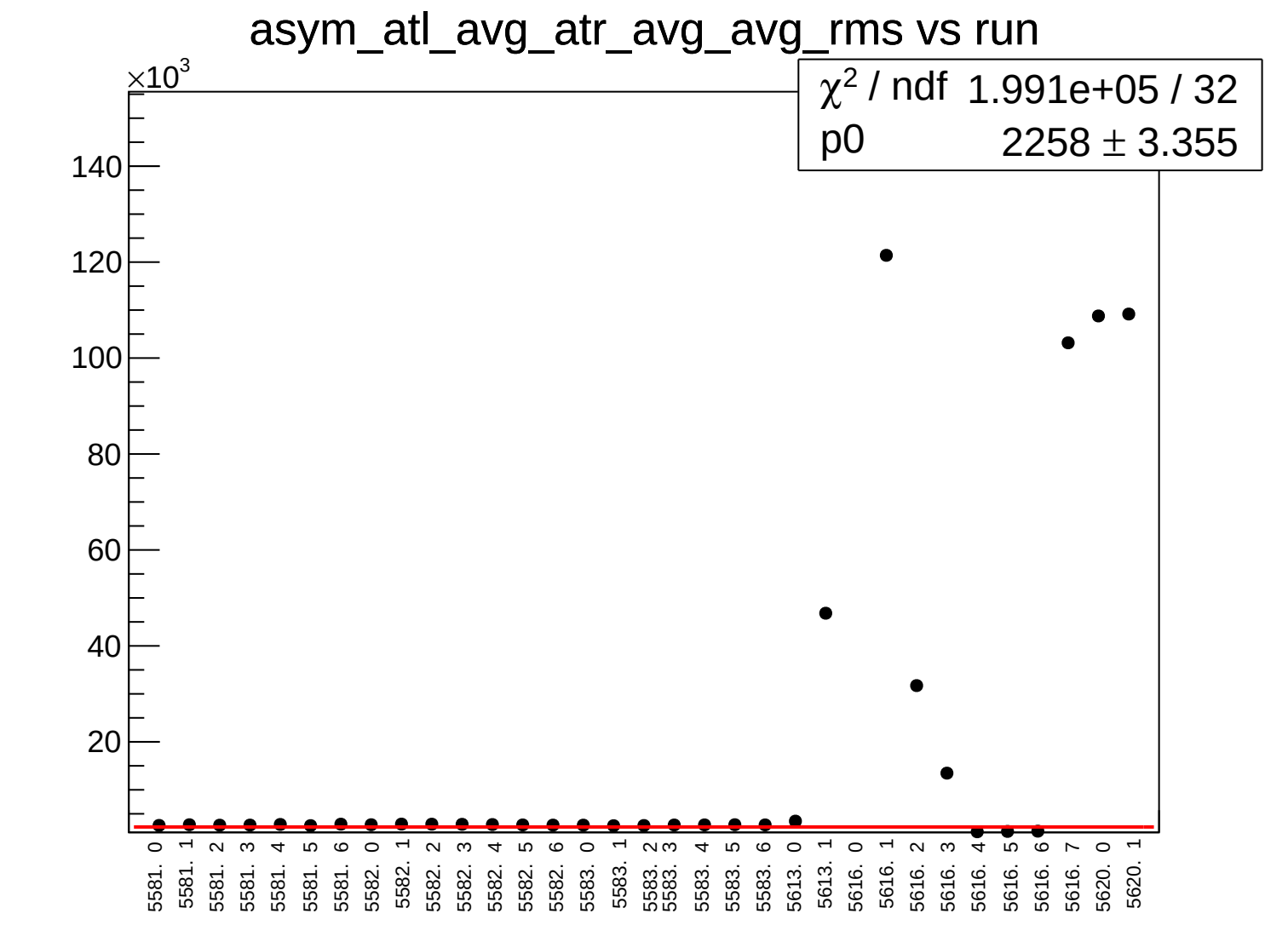

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 33.59 / 21
p0 −202.1± 2850
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 36.54
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 22
Mean −0.04424
Std Dev 1.235
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

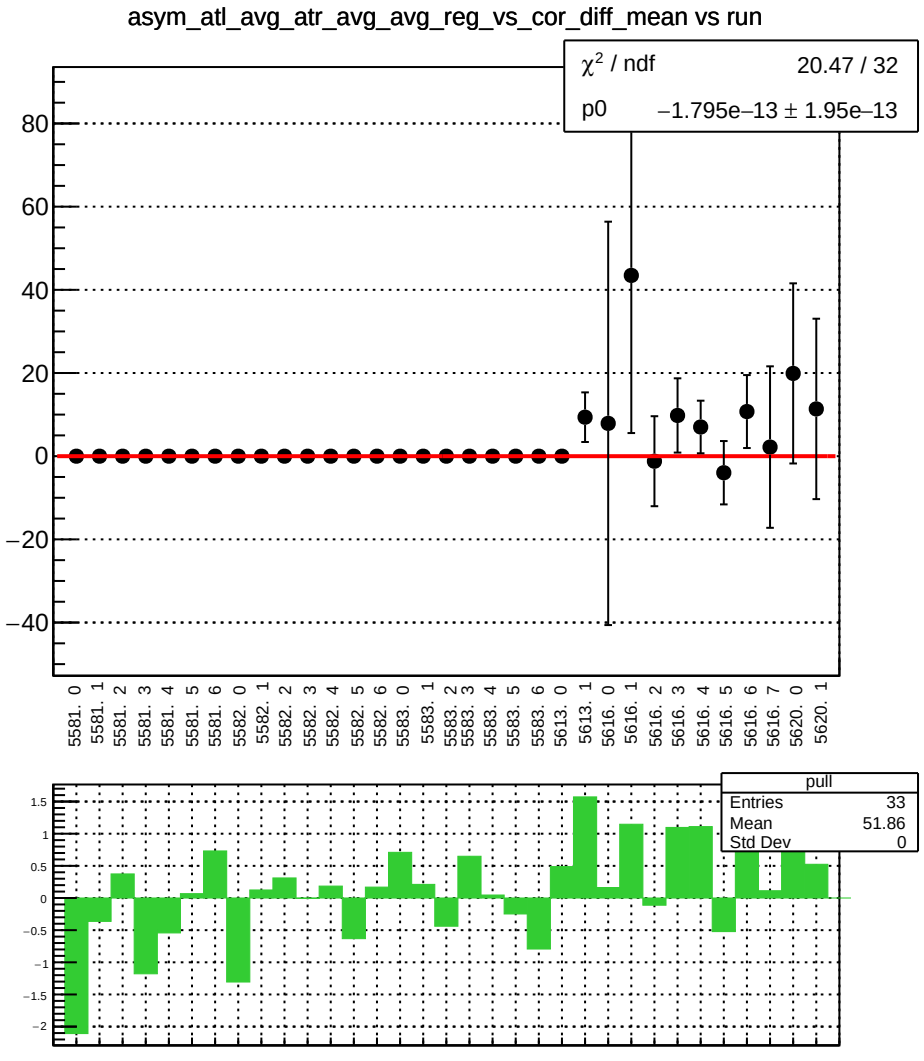

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.782e+05 / 32
p0 1360 ± 1.976
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

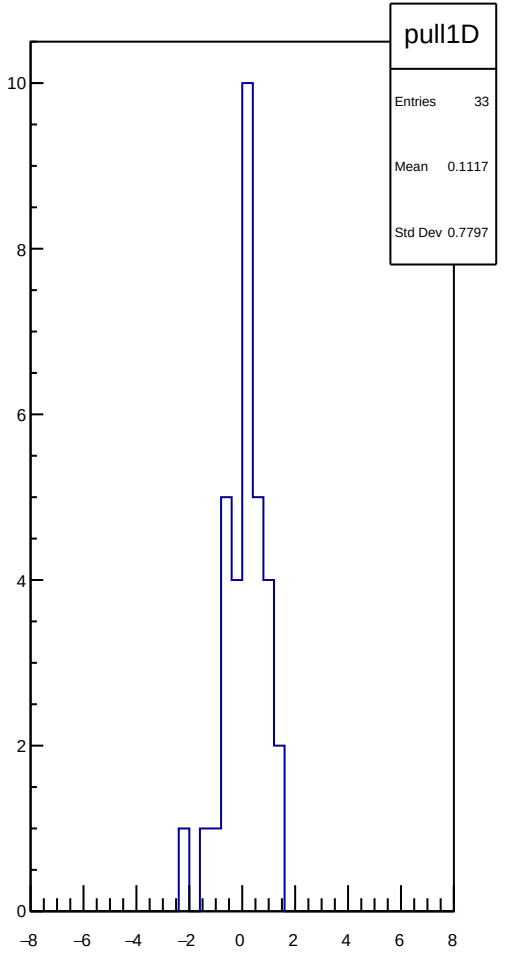

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 34.18 / 32
p0 −618.6 ± 3245
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −94.69
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.02014
Std Dev 1.018
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

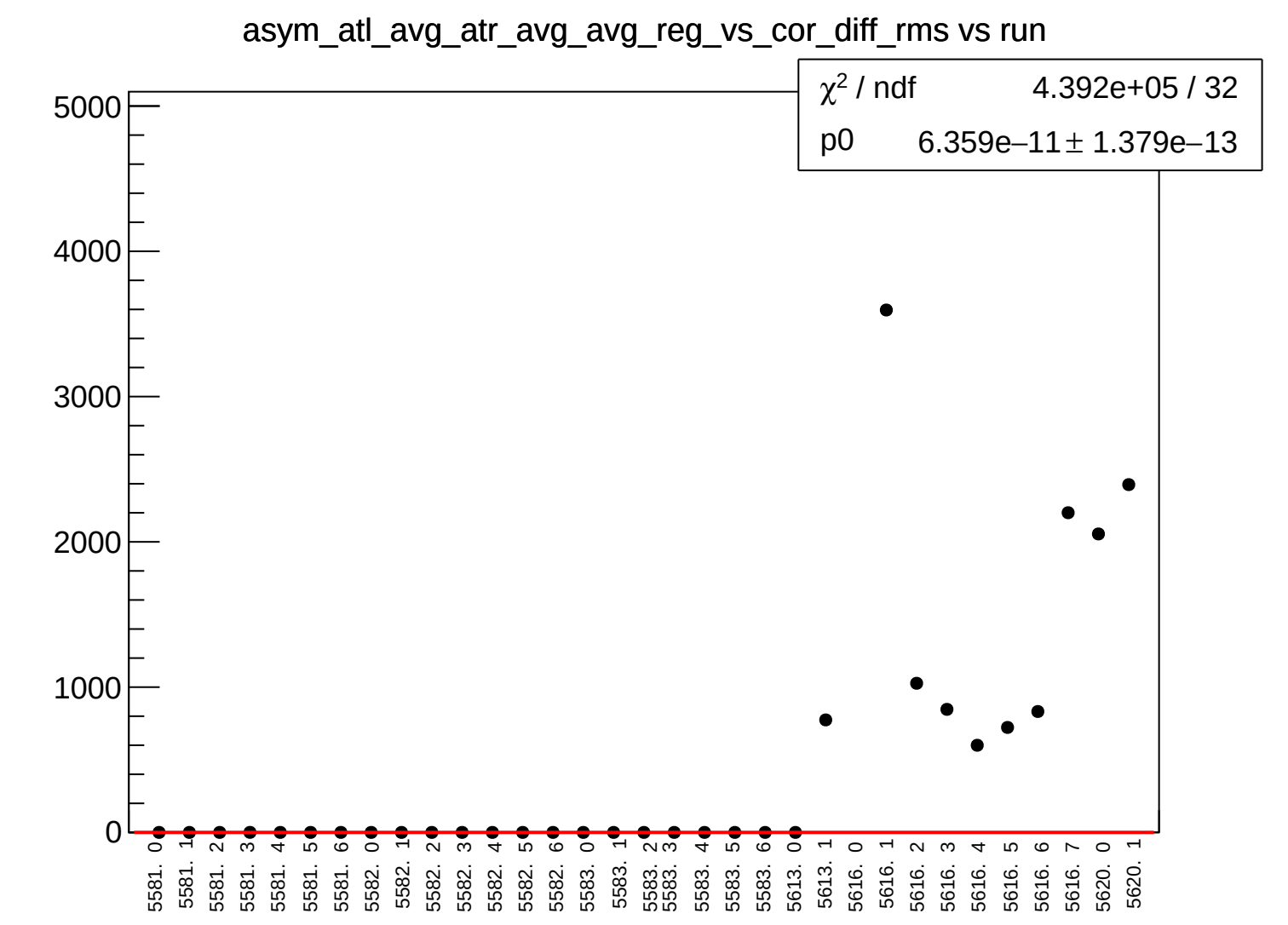

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.864e+04 / 32
p0 1797 ± 2.294
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

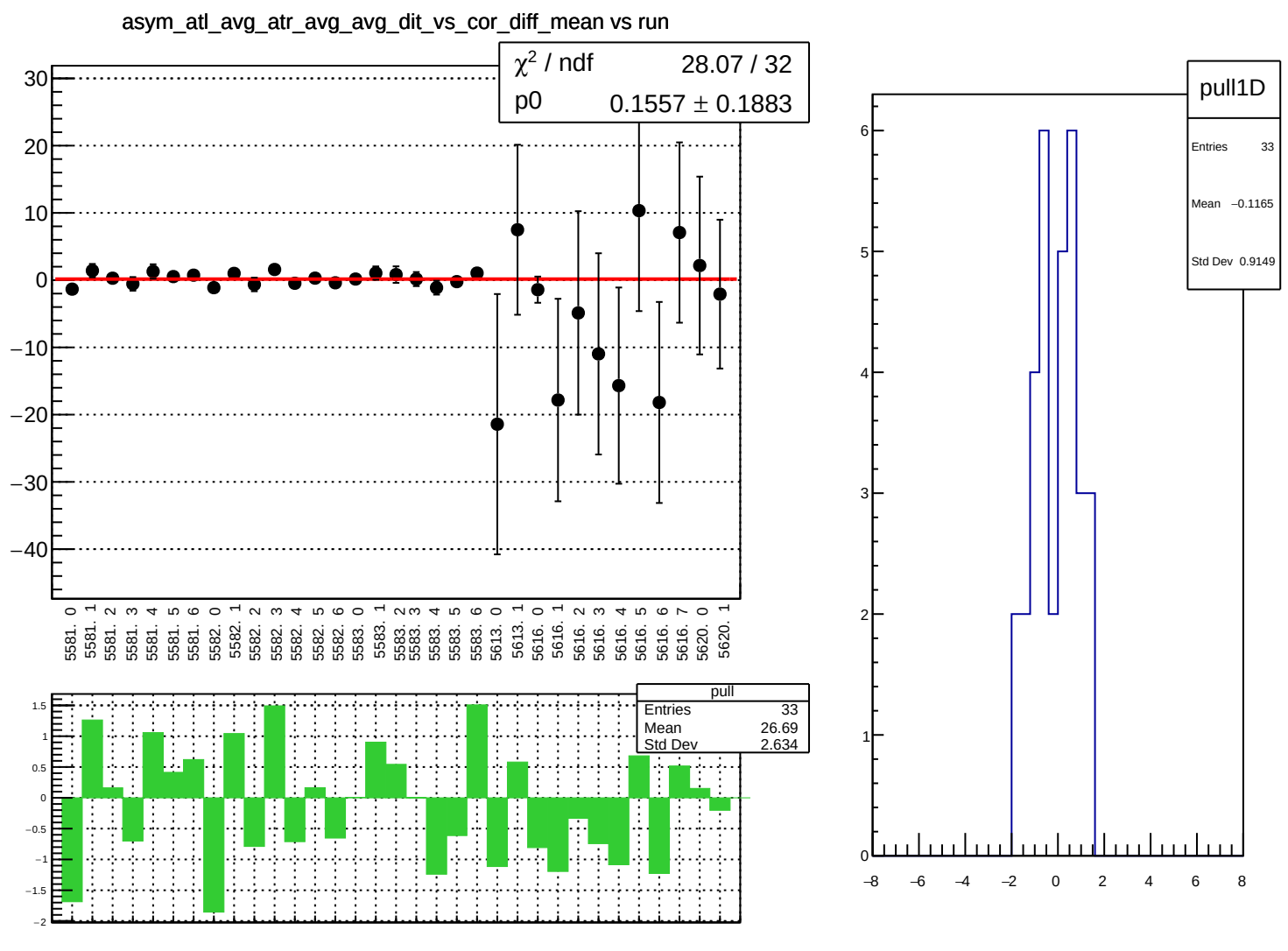

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 19.49 / 21
p0 −4353 ± 5888
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 74.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 22
Mean 0.01139
Std Dev 0.941
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

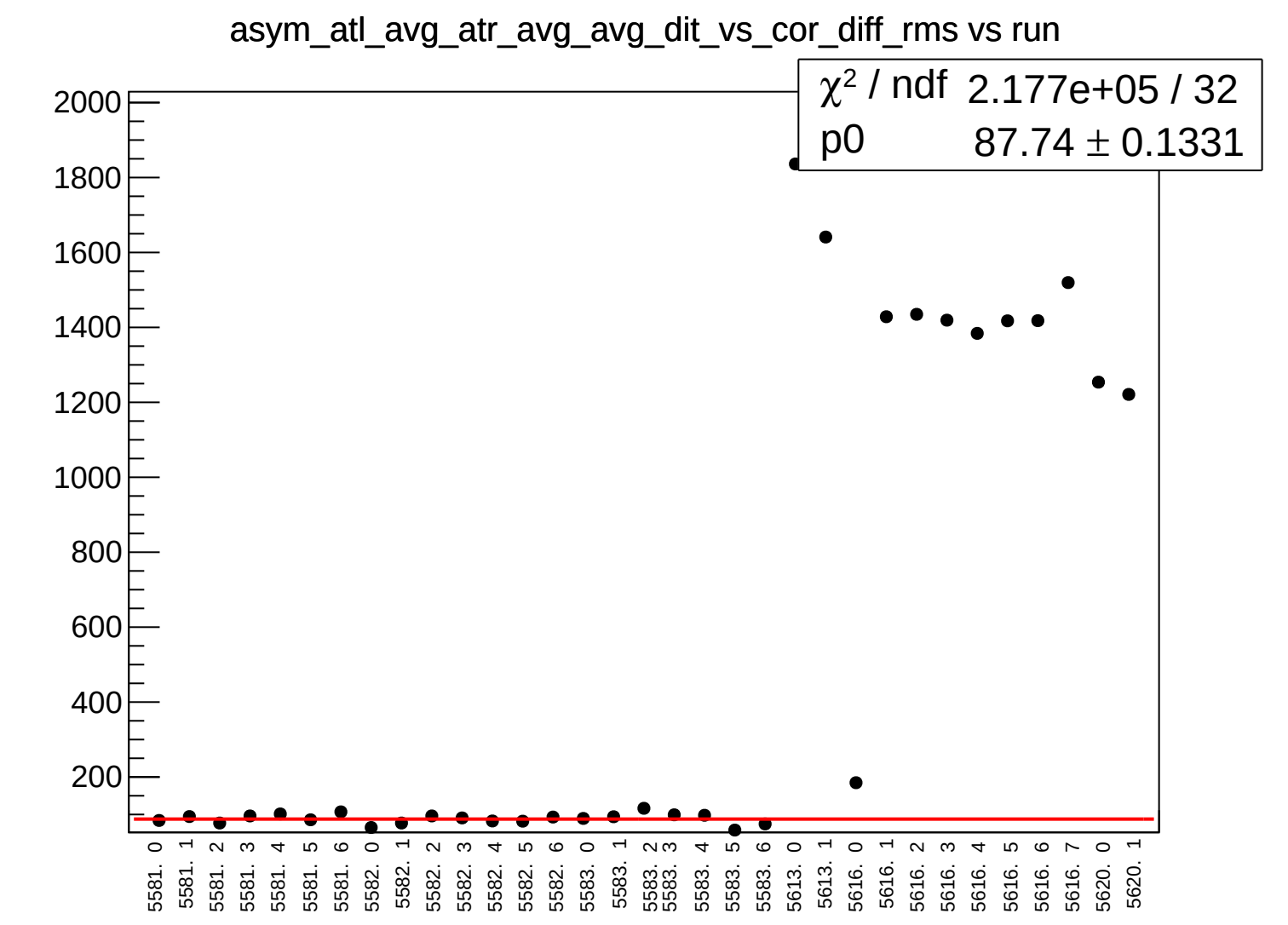

asym_atl_avg_atr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.991e+05 / 32
p0 2258 ± 3.355
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

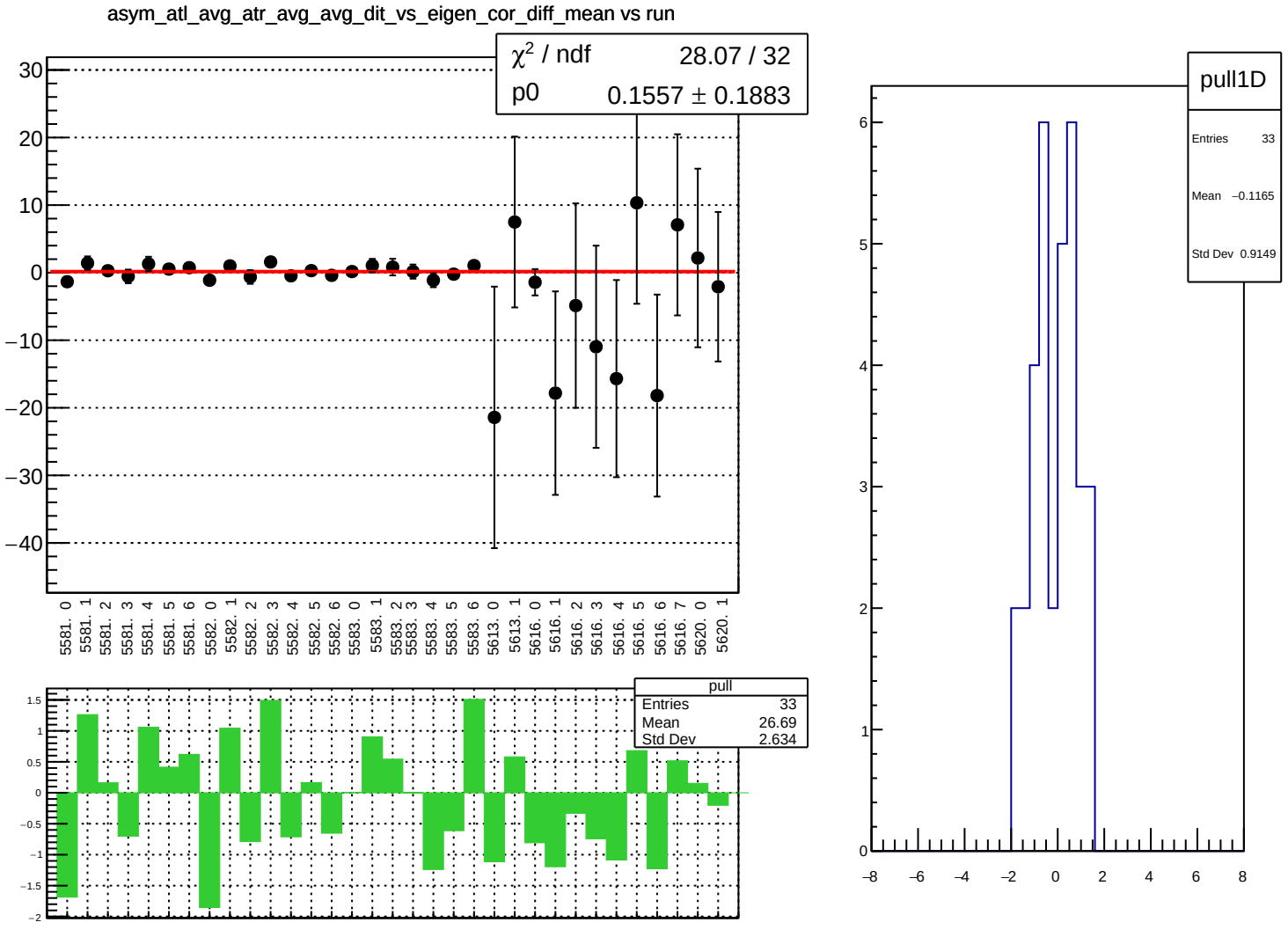

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 20.47 / 32
p0 −1.795e−13 ± 1.95e−13
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 51.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

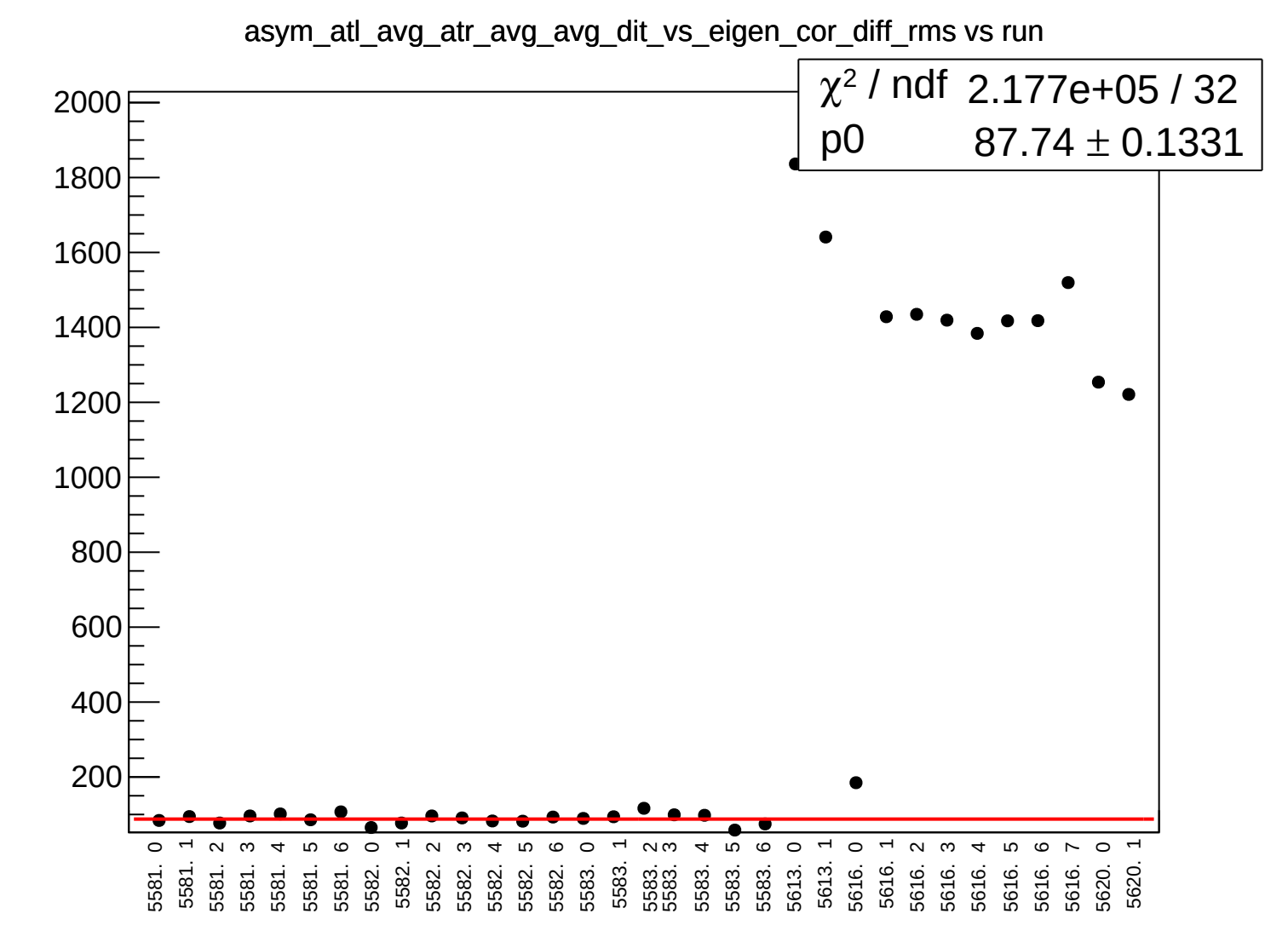

pull1D
Entries 33
Mean 0.1117
Std Dev 0.7797
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

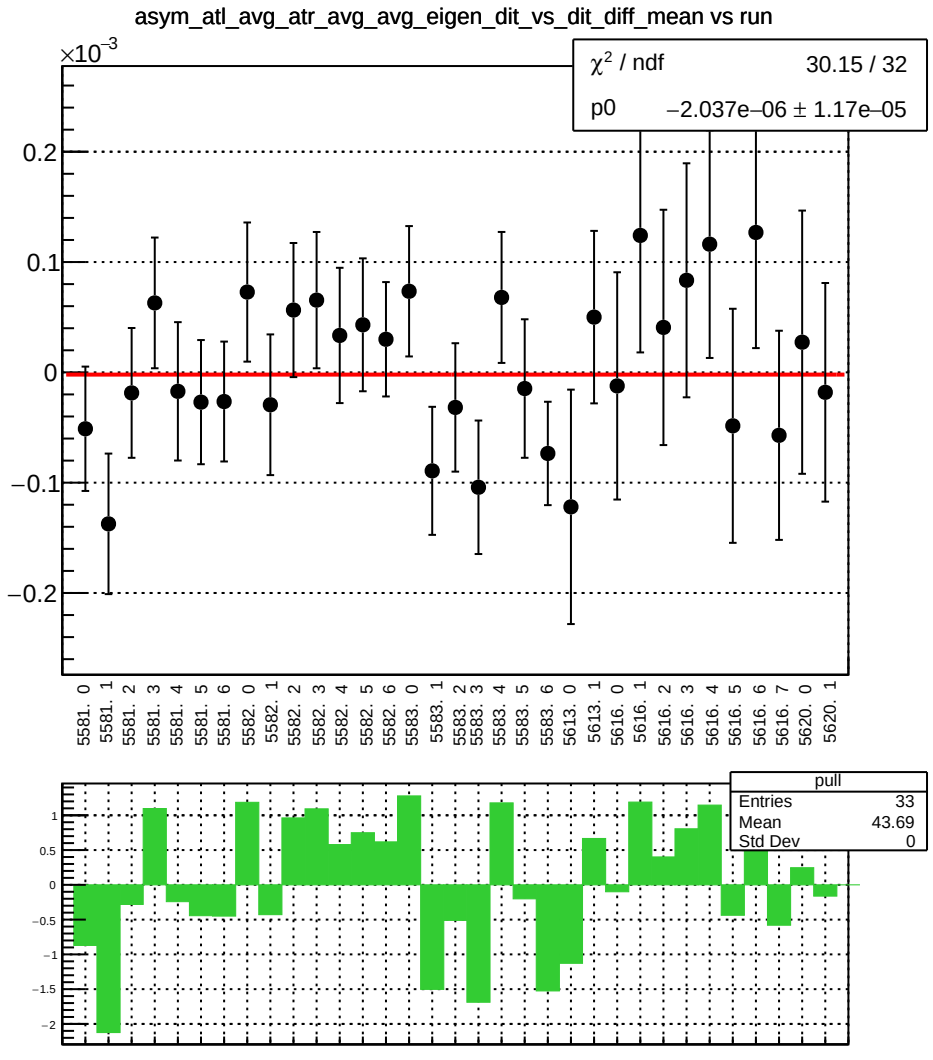

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.392e+05 / 32
p0 6.359e−11 ± 1.379e−13
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

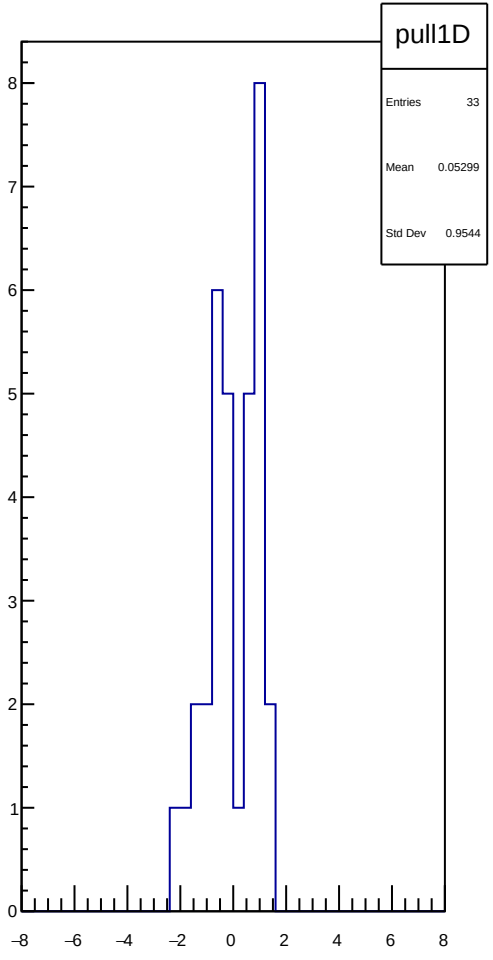

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 28.07 / 32
p0 0.1557 ± 0.1883
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.69
Std Dev 2.634
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1165
Std Dev 0.9149
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

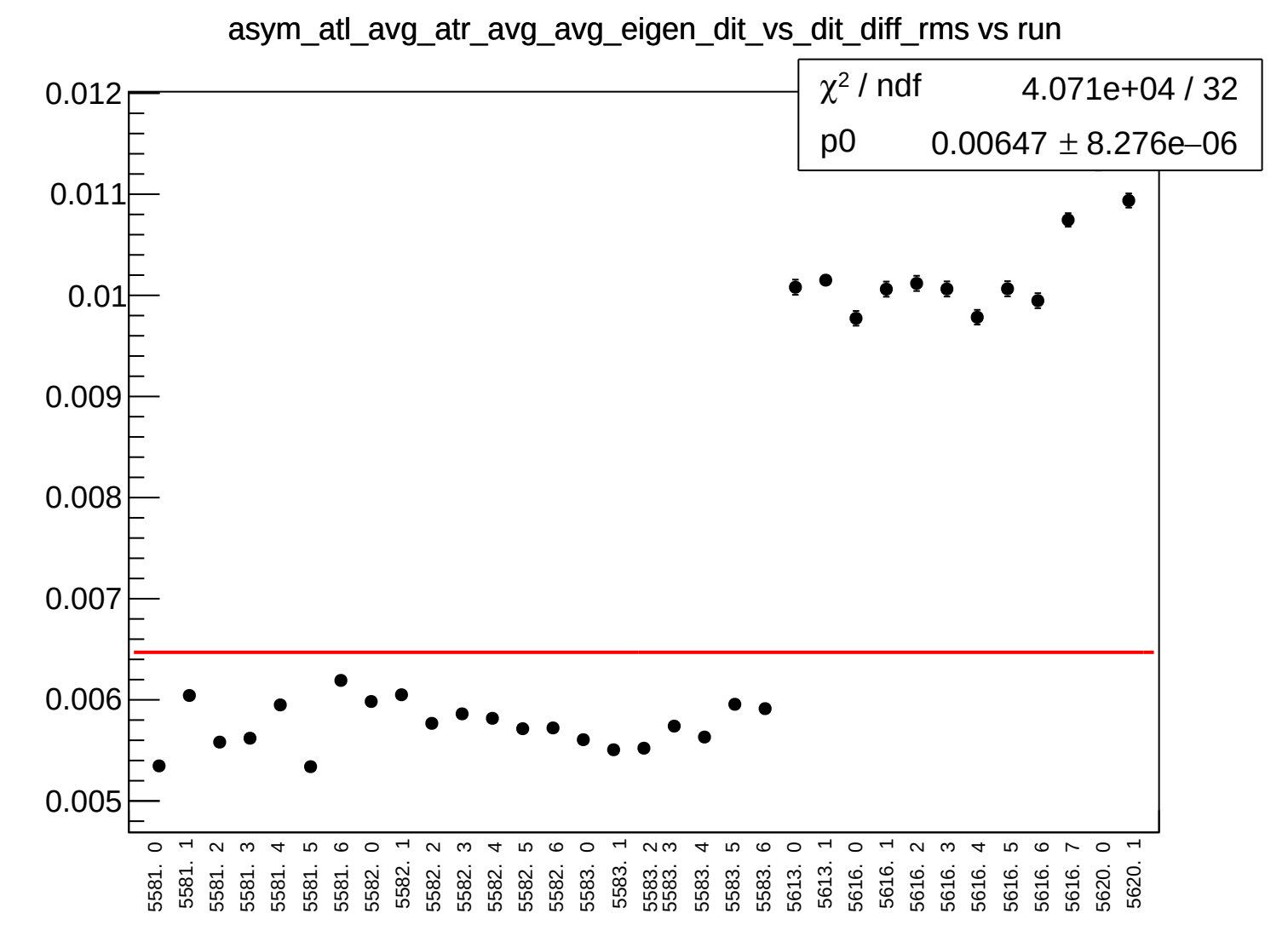

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.177e+05 / 32
p0 87.74 ± 0.1331
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

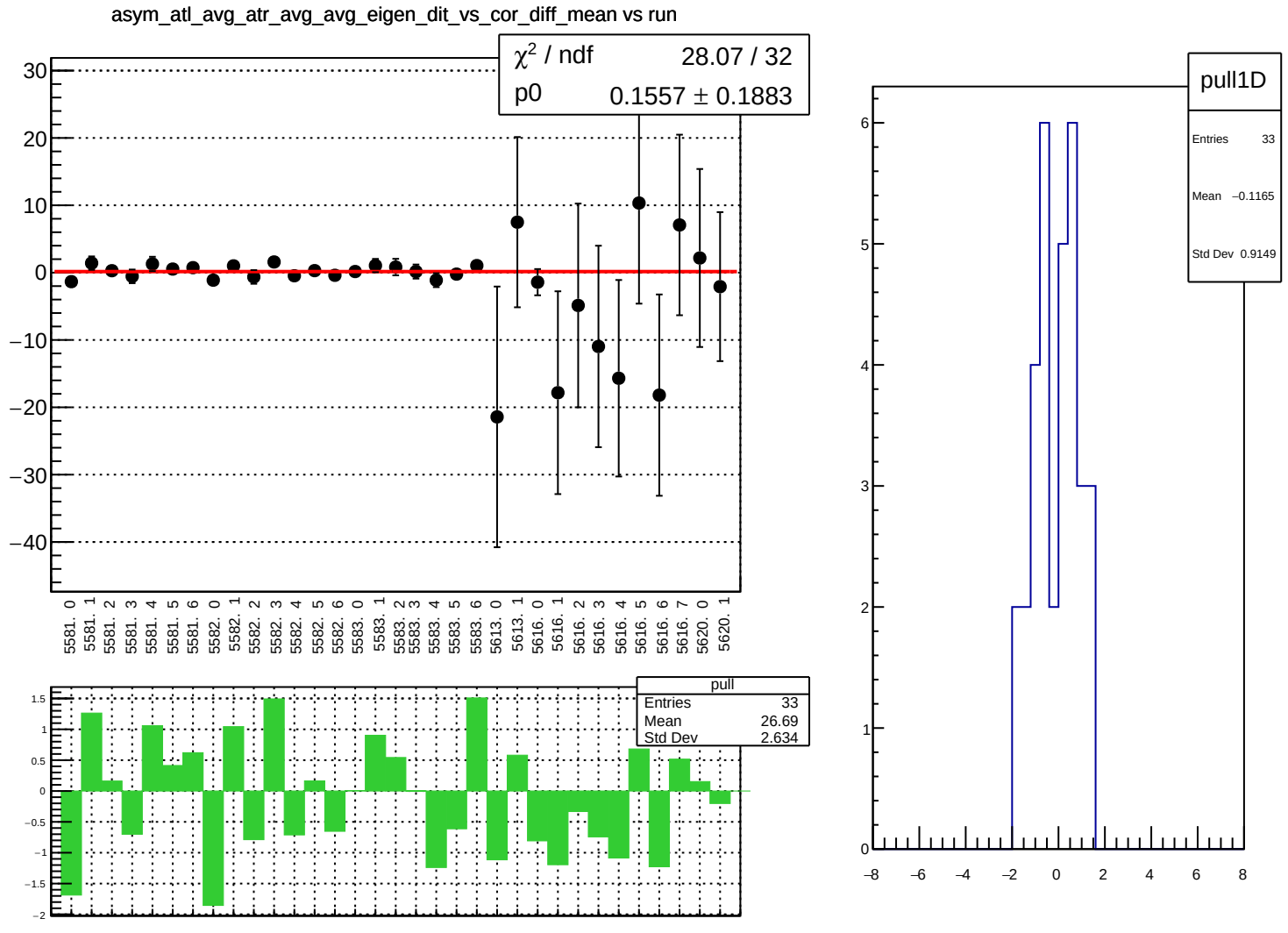

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.07 / 32
p0 0.1557 ± 0.1883
pull
Entries 33
Mean 26.69
Std Dev 2.634
pull1D
Entries 33
Mean −0.1165
Std Dev 0.9149

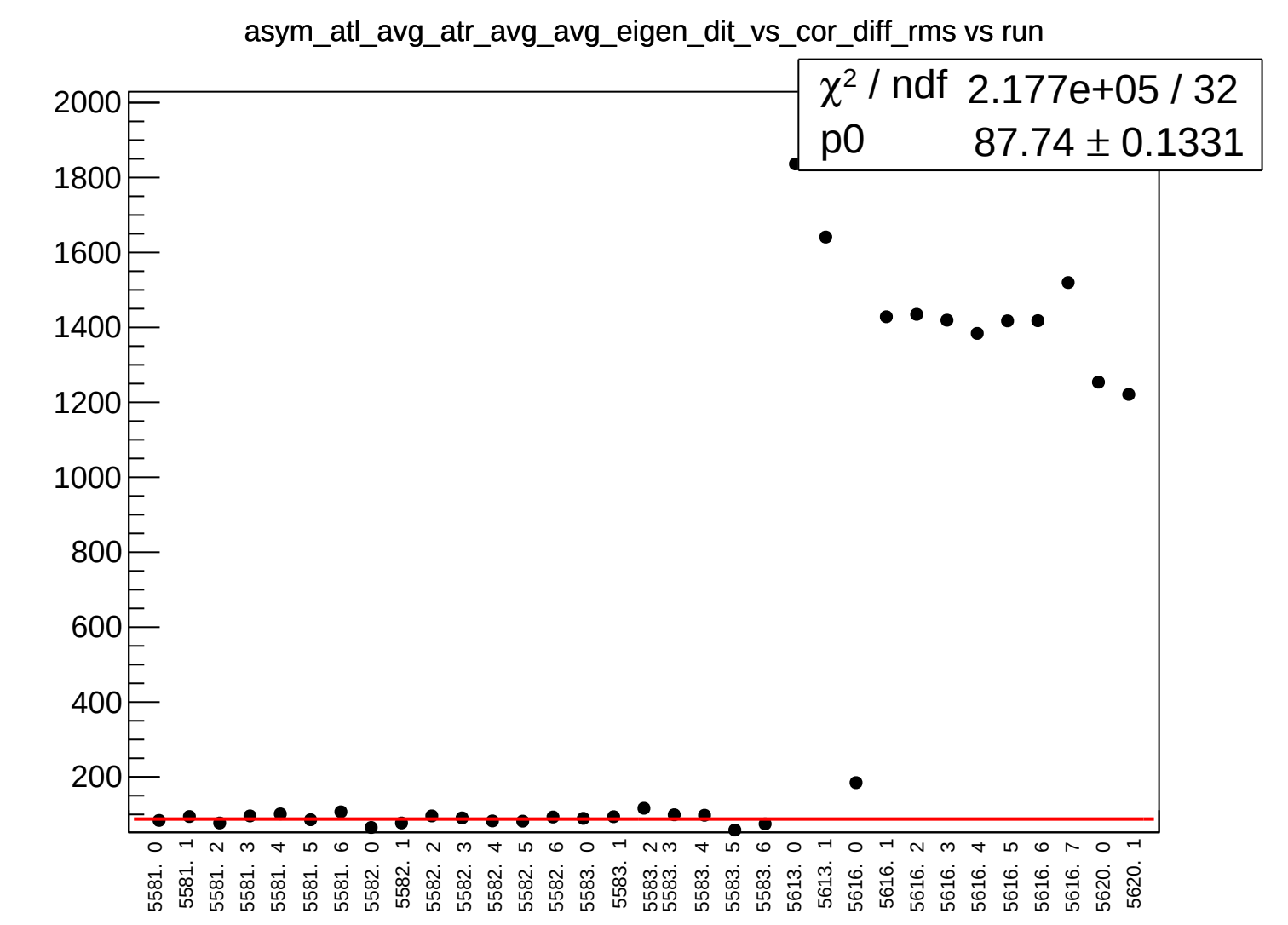

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.177e+05 / 32
p0 87.74 ± 0.1331
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

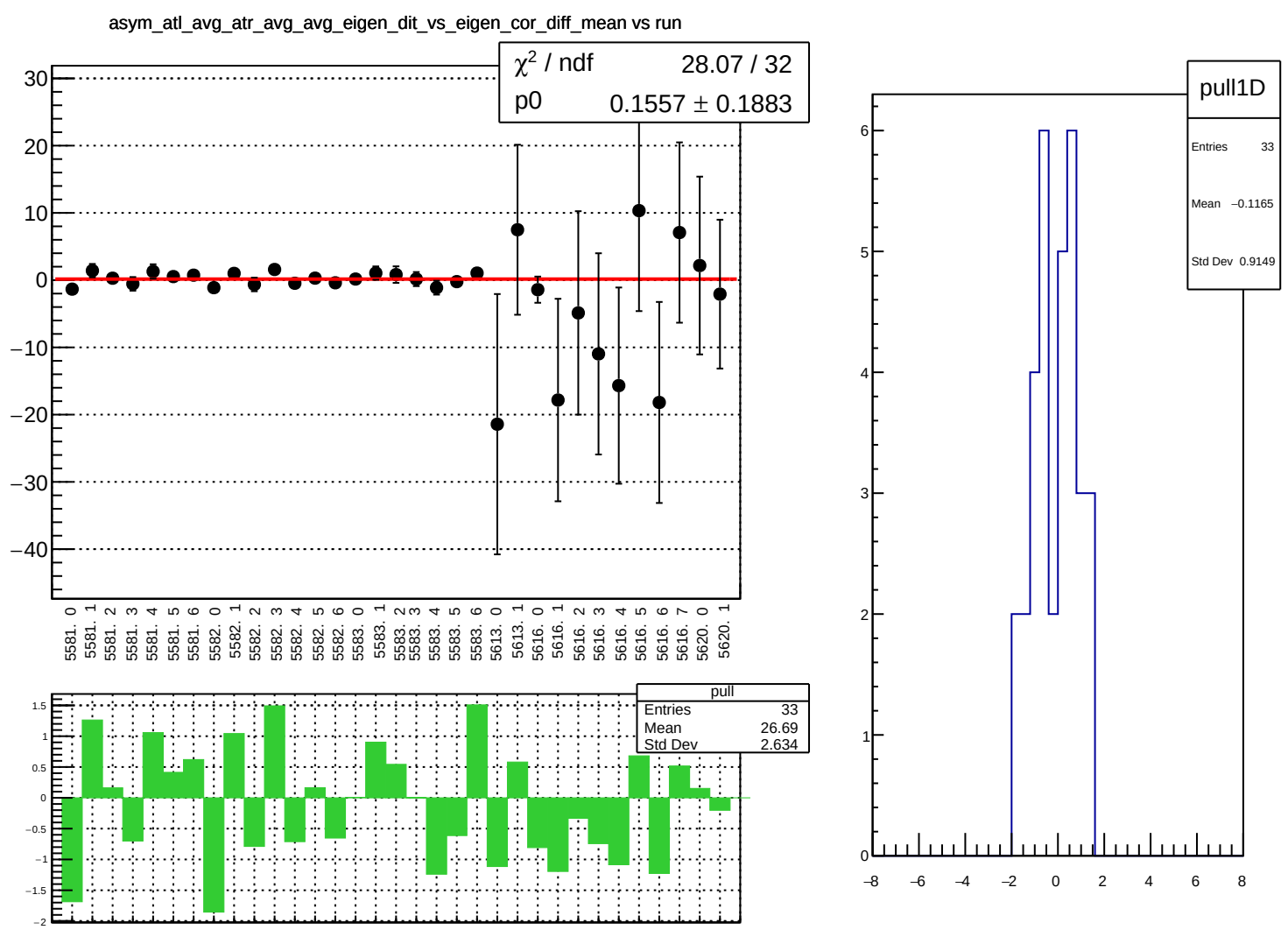

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.15 / 32
p0 −2.037e−06 ± 1.17e−05
0.2
0.1
0
−0.1
−0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 43.69
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

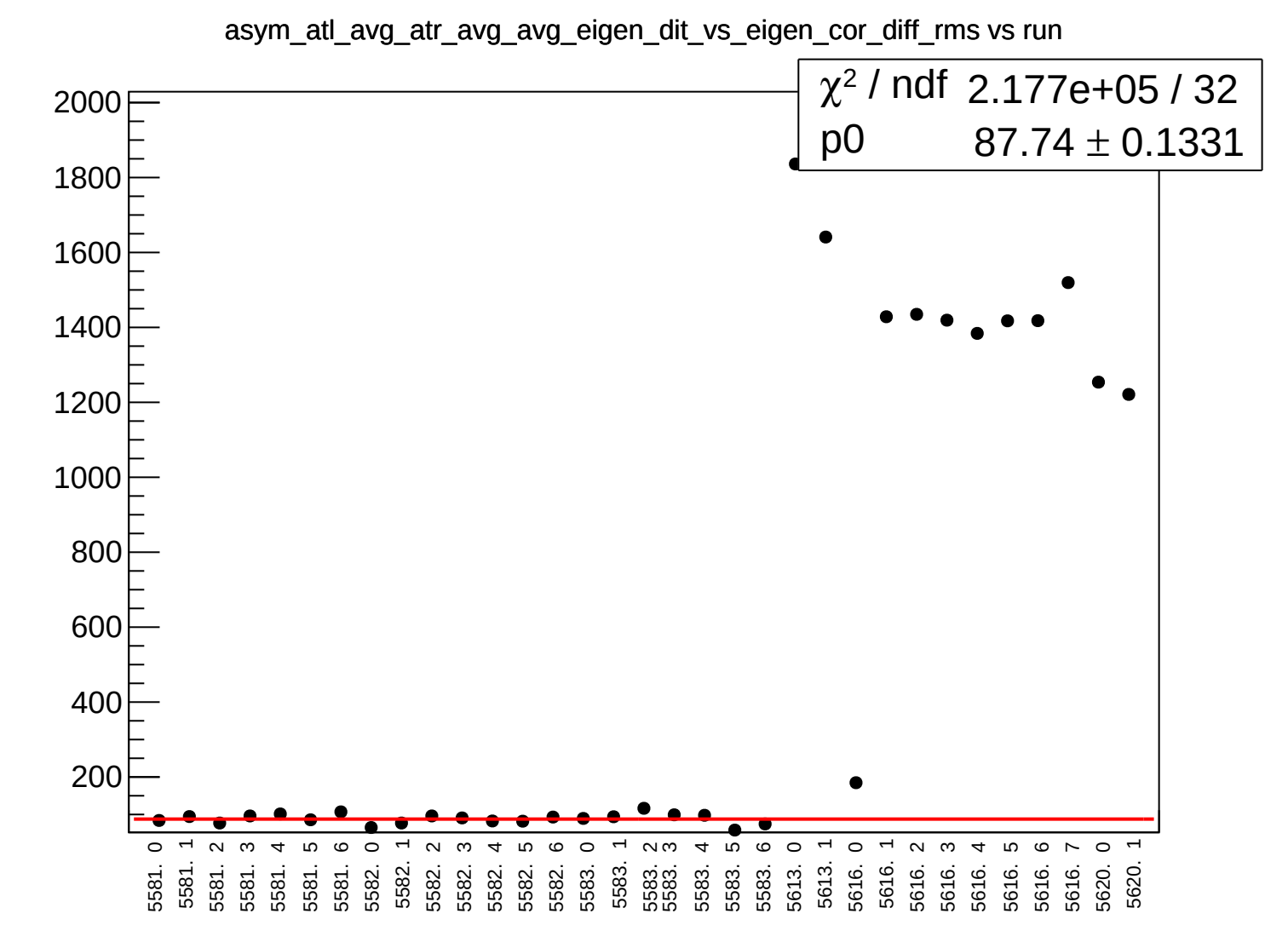

pull1D
Entries 33
Mean 0.05299
Std Dev 0.9544
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

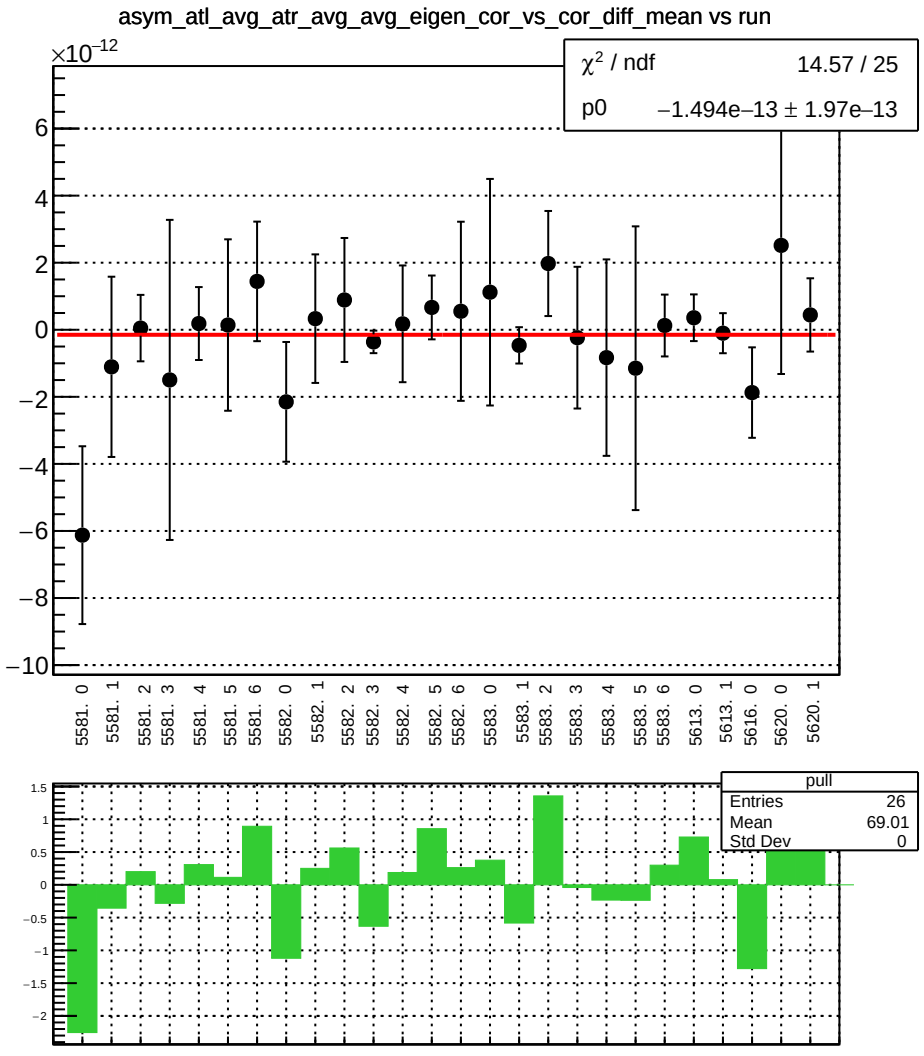

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.071e+04 / 32
p0 0.00647 ± 8.276e–06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

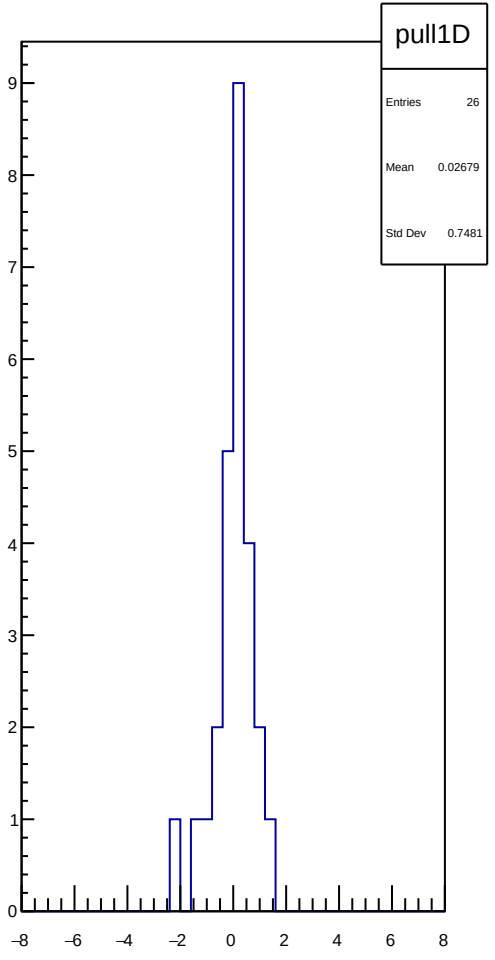

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 28.07 / 32
p0 0.1557 ± 0.1883
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.69
Std Dev 2.634
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1165
Std Dev 0.9149
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

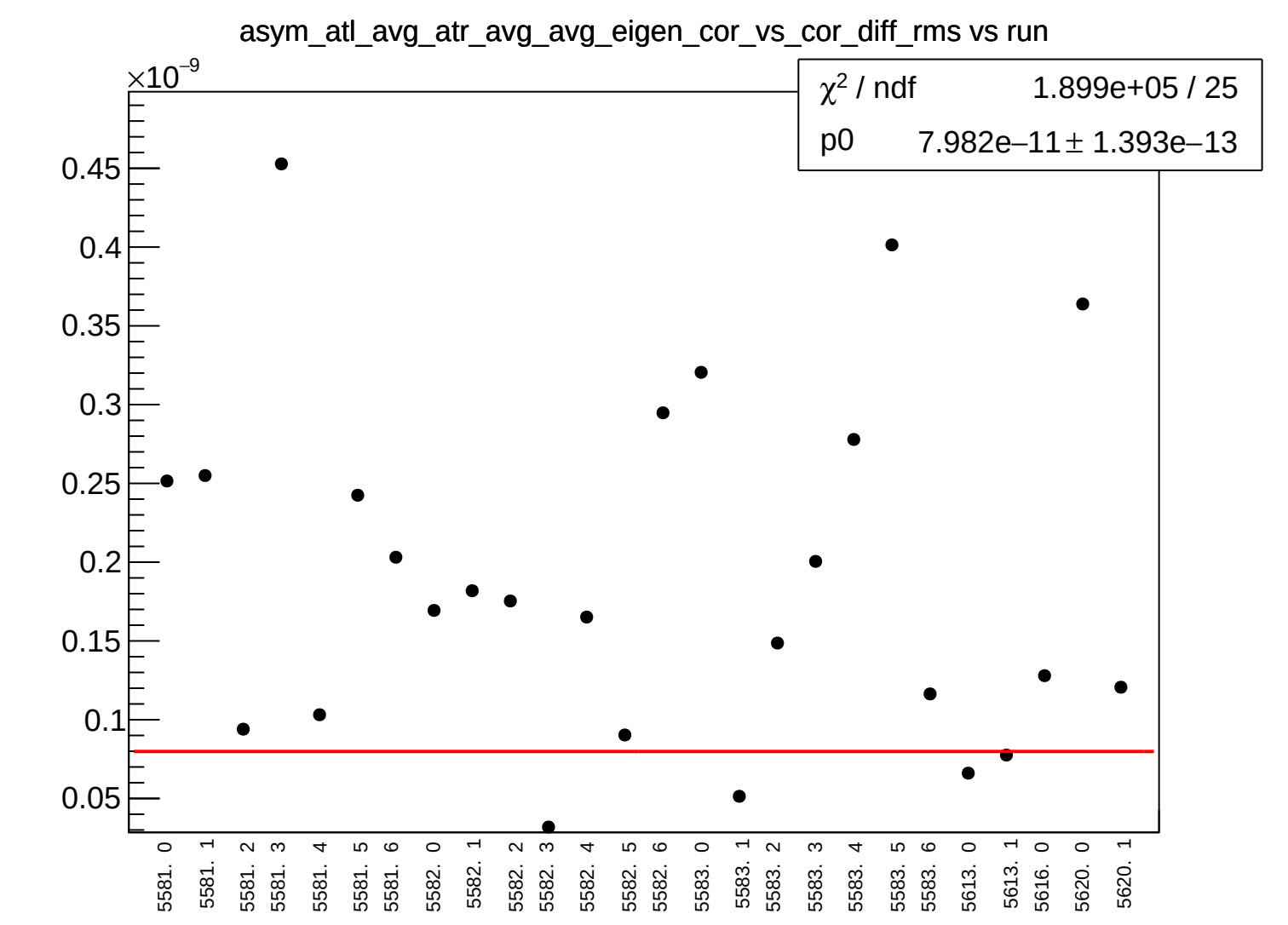

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.177e+05 / 32
p0 87.74 ± 0.1331
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

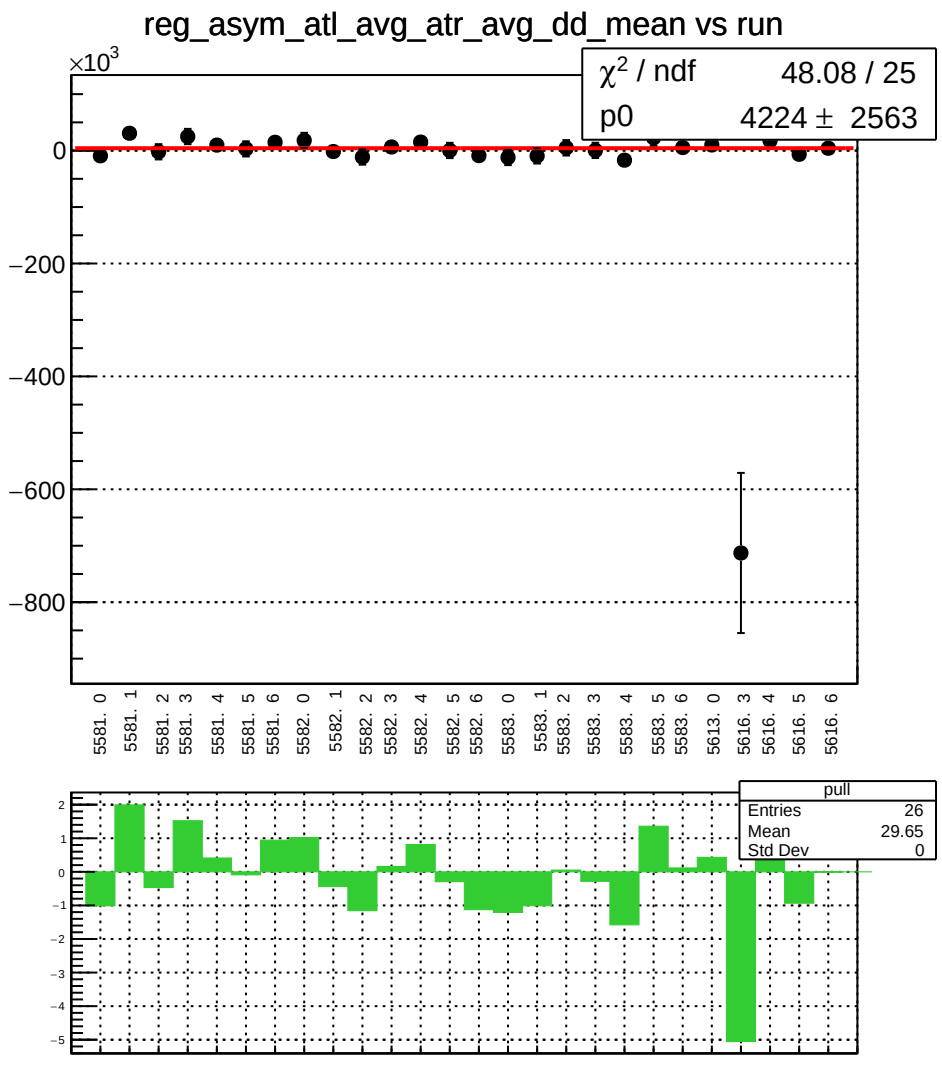

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.07 / 32
p0 0.1557 ± 0.1883
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.69
Std Dev 2.634
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1165
Std Dev 0.9149
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

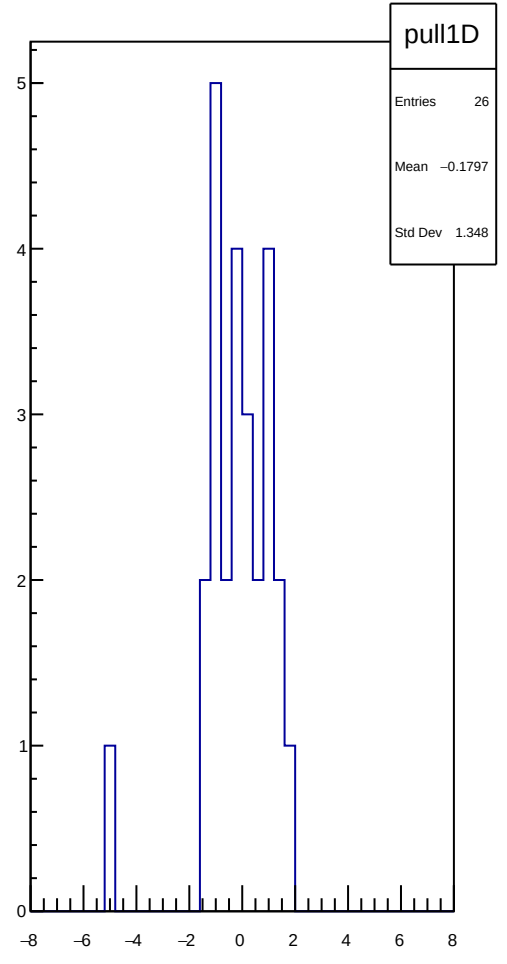

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.177e+05 / 32
p0 87.74 ± 0.1331
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

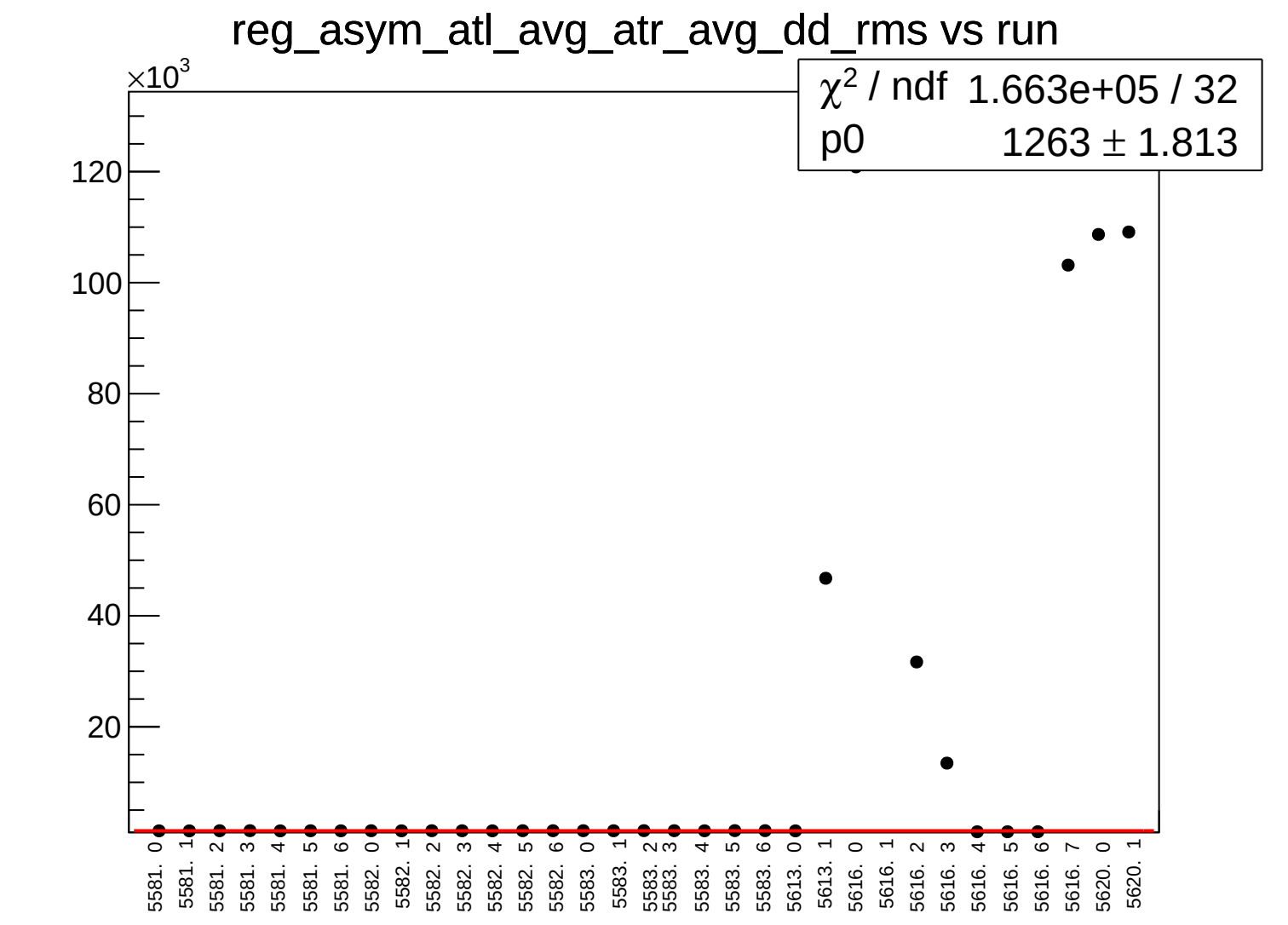

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 14.57 / 25
p0 −1.494e−13 ± 1.97e−13
6
4
2
0
−2
−4
−6
−8
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 69.01
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

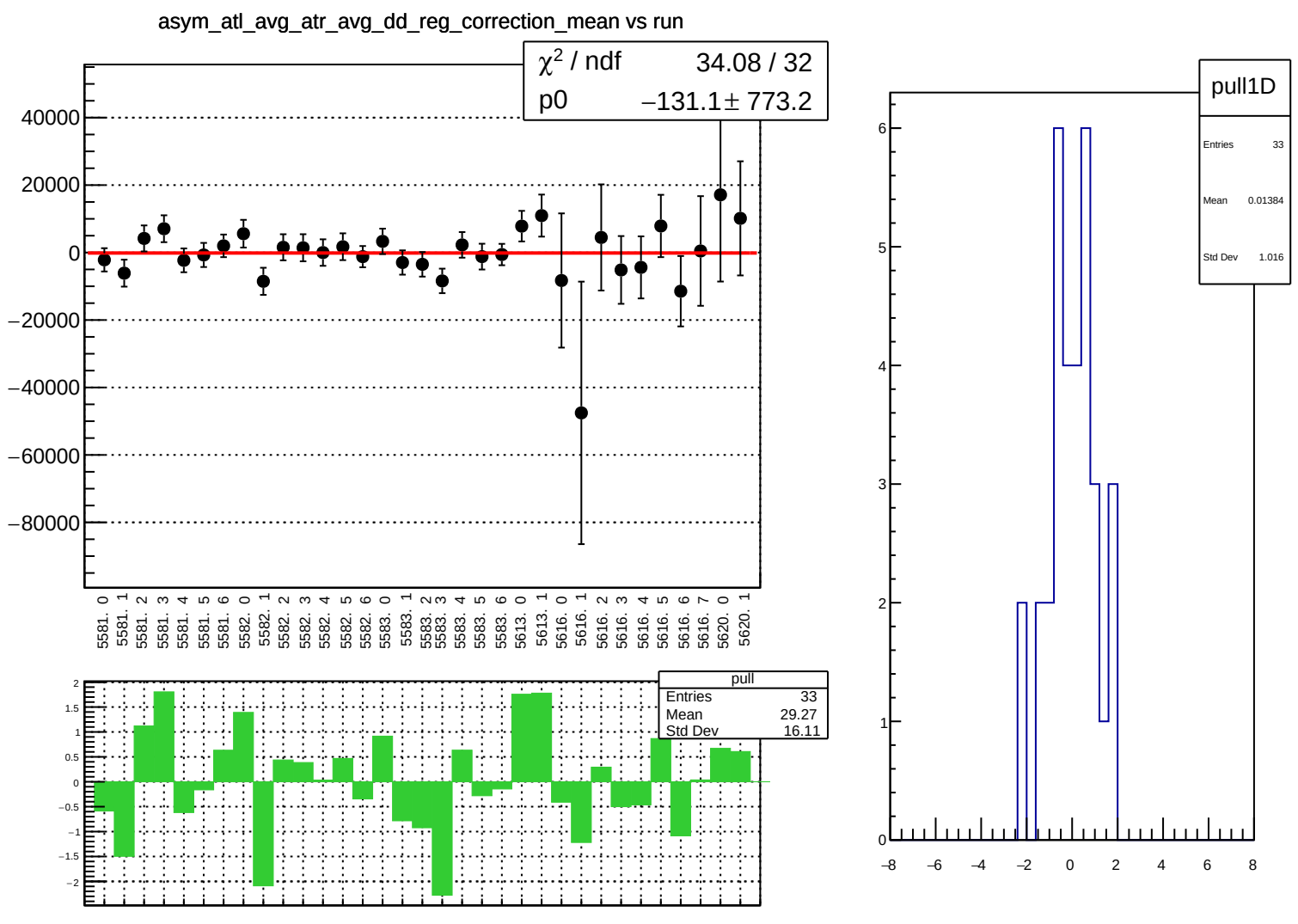

pull1D
Entries 26
Mean 0.02679
Std Dev 0.7481
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

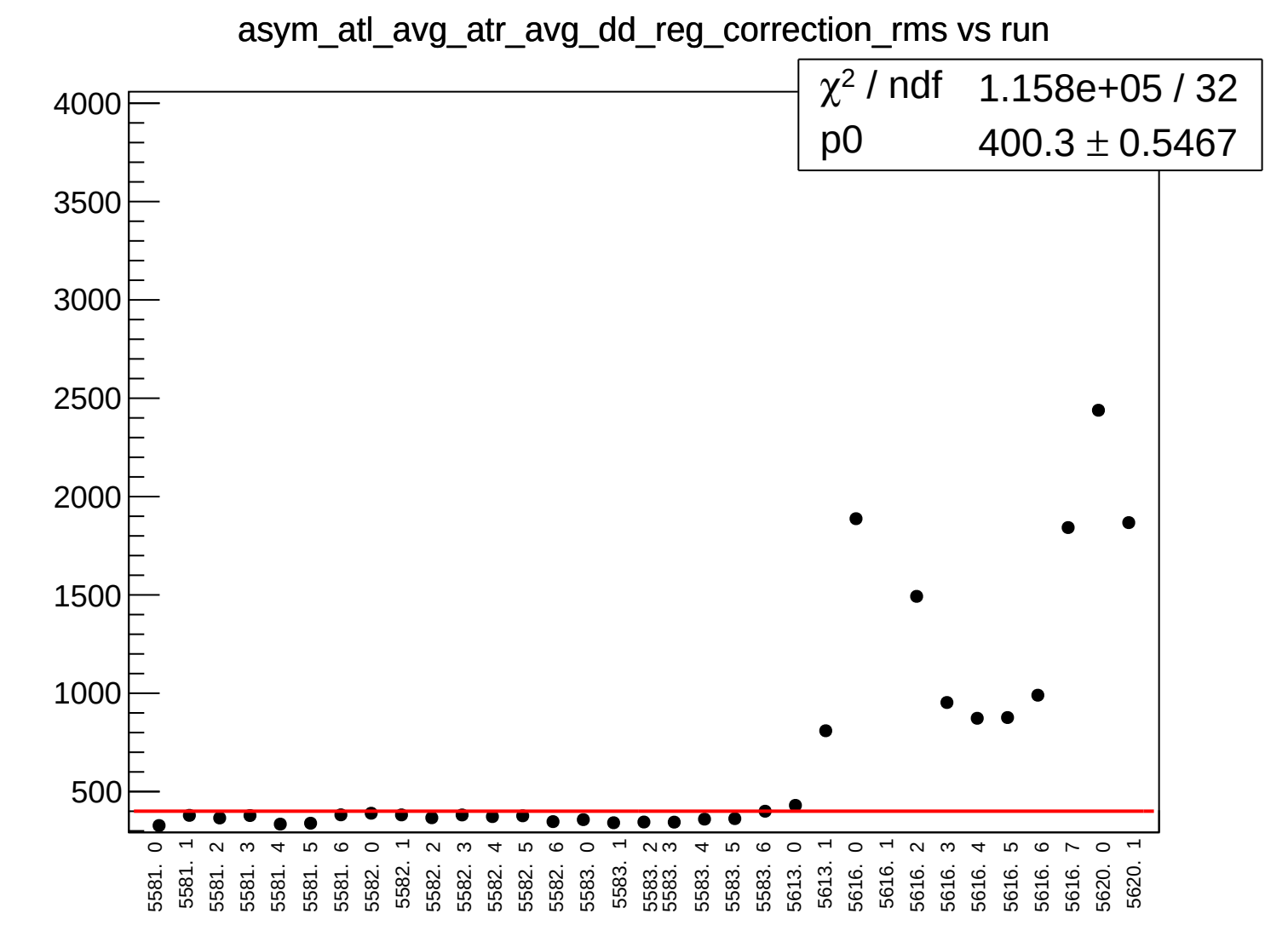

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.899e+05 / 25
p0 7.982e−11 ± 1.393e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

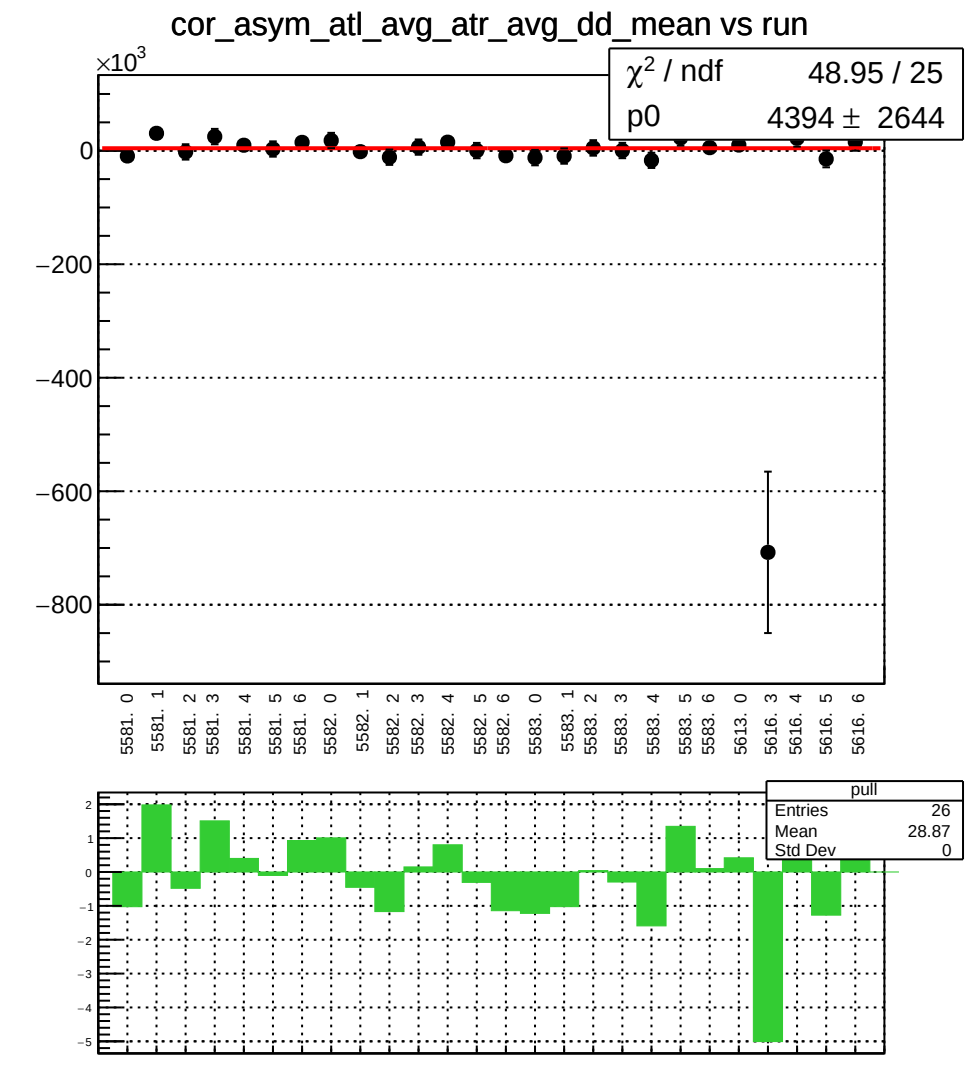

reg_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ^2 / ndf 48.08 / 25
p0 4224 ± 2563
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 29.65
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

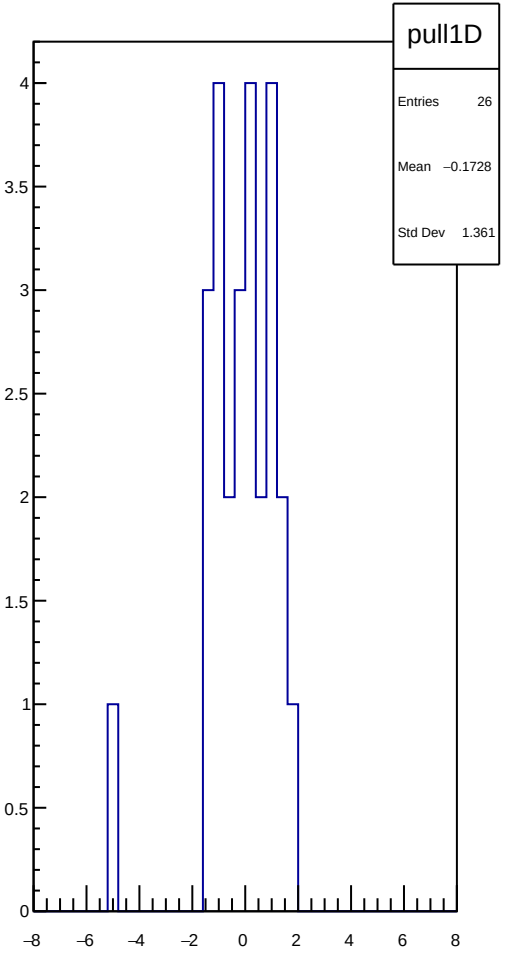

pull1D
Entries 26
Mean −0.1797
Std Dev 1.348
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

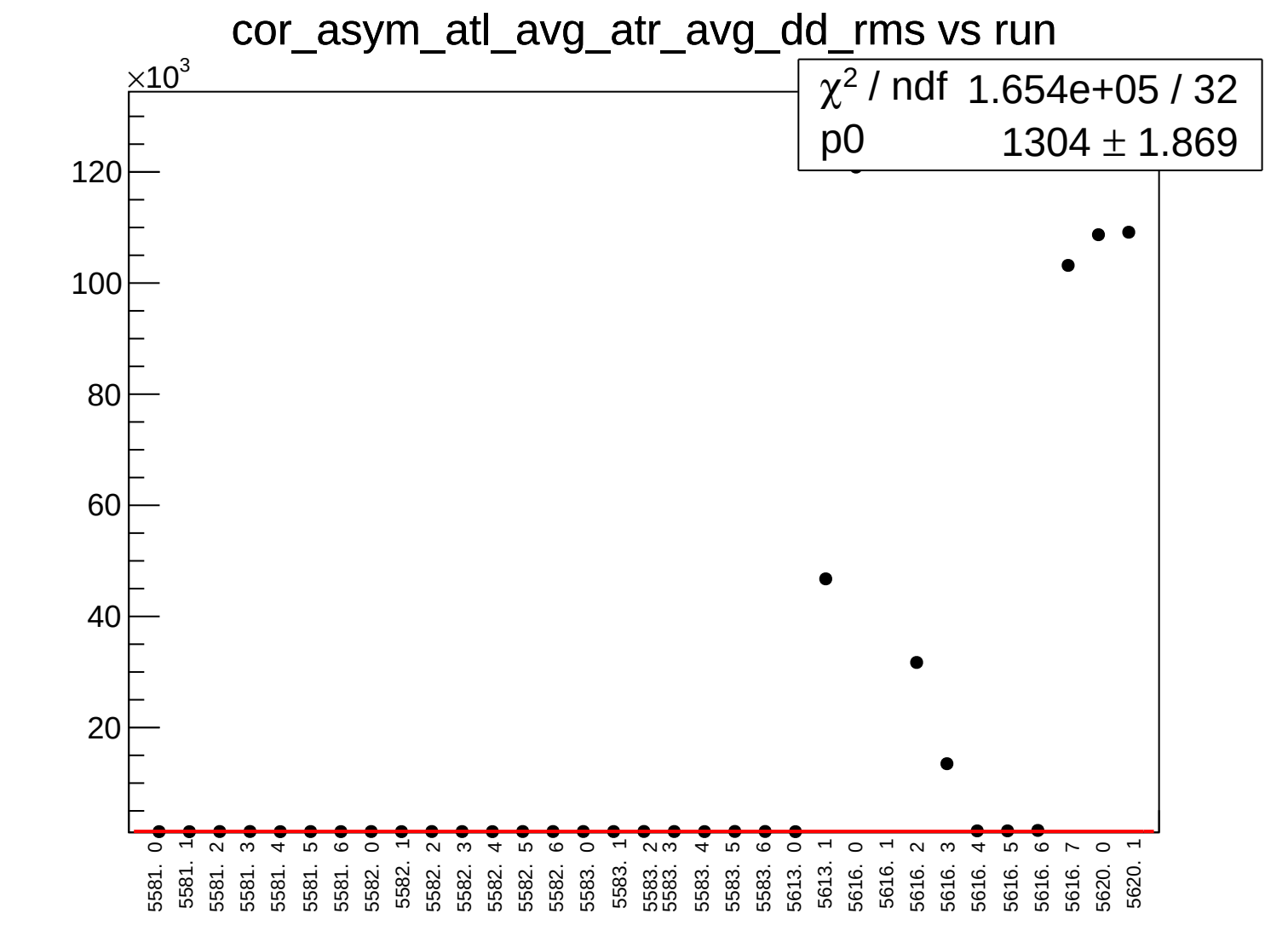

reg_asym_atl_avg_atr_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.663e+05 / 32
p0 1263 ± 1.813
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

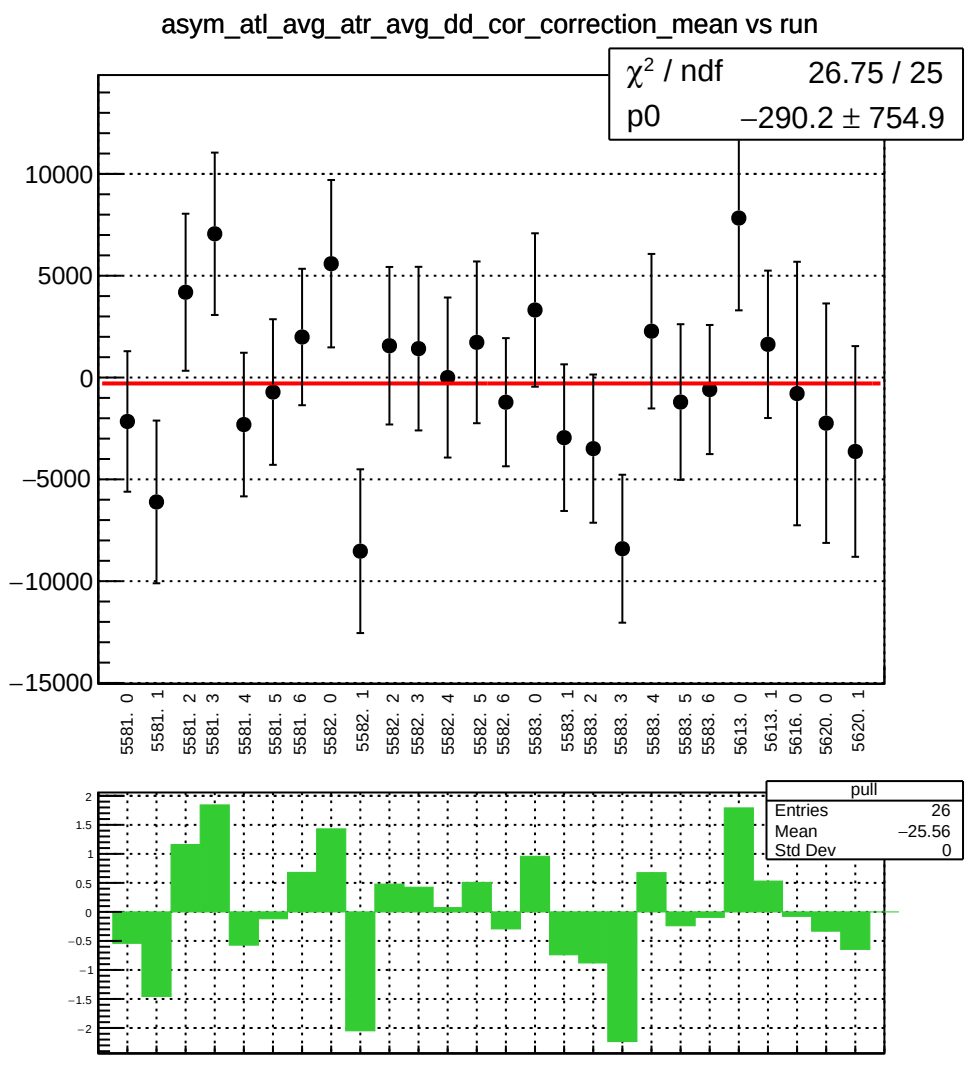

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 34.08 / 32
p0 −131.1± 773.2
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.27
Std Dev 16.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.01384
Std Dev 1.016
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

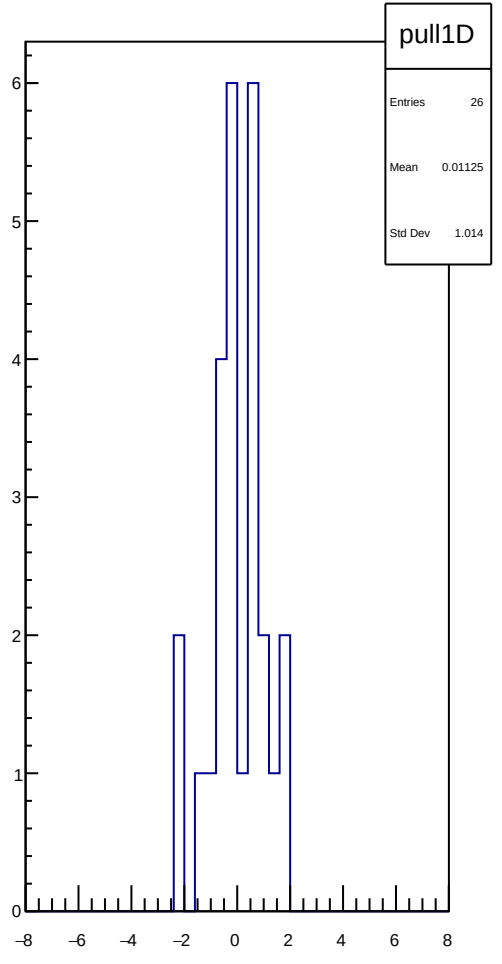

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.158e+05 / 32
p0 400.3 ± 0.5467
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

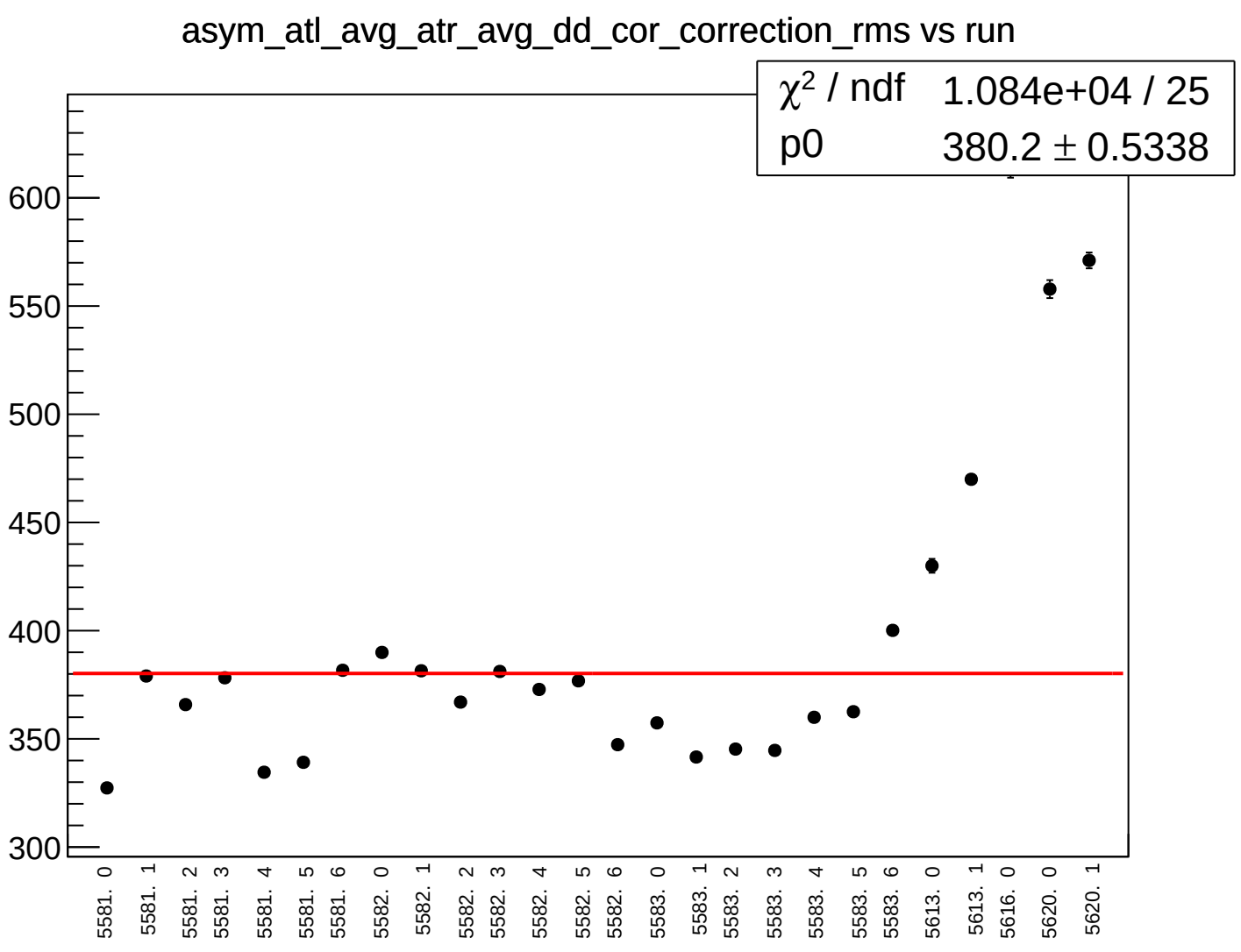

cor_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ^2 / ndf 48.95 / 25
p0 4394 ± 2644
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 28.87
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

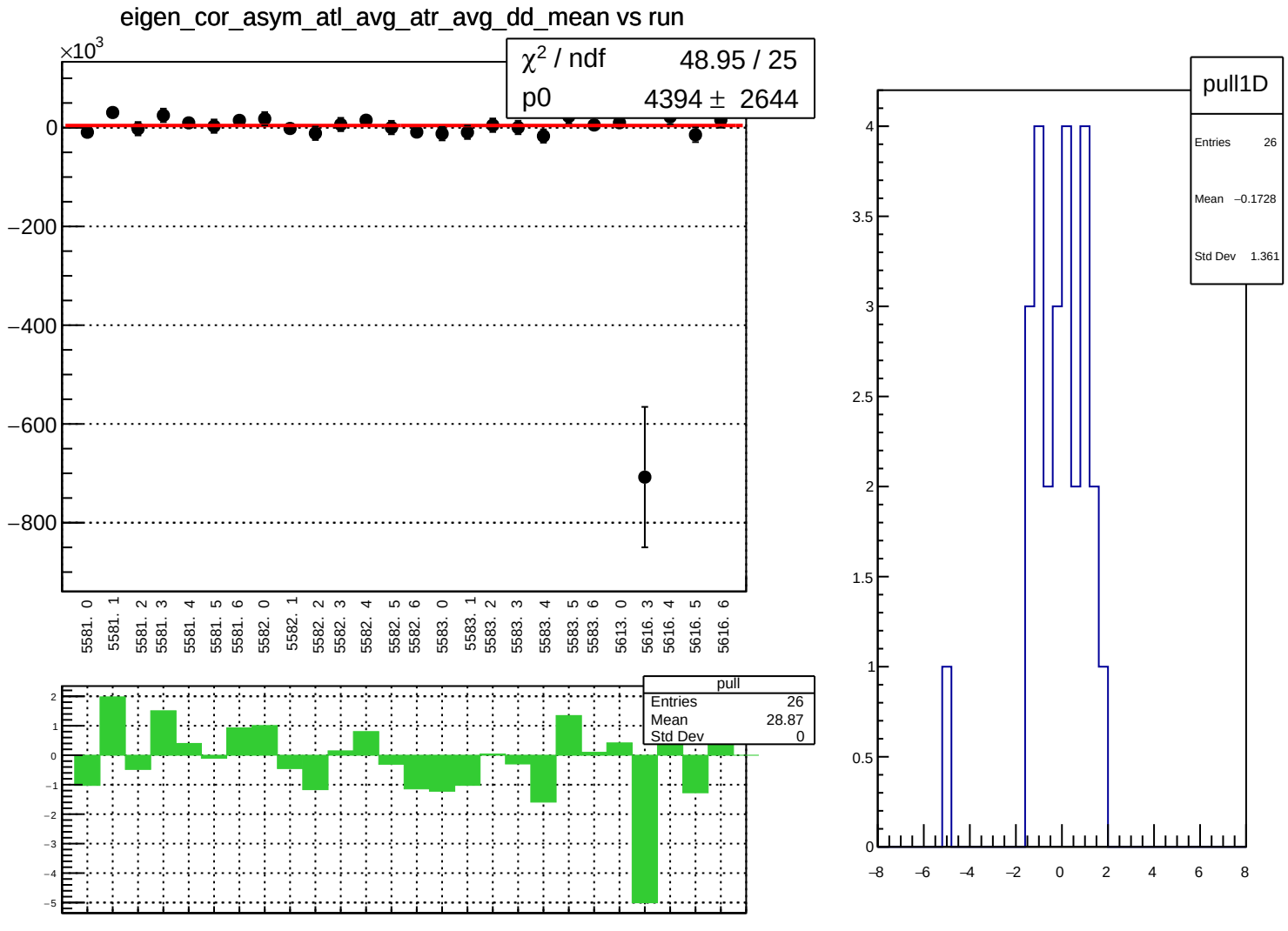

pull1D
Entries 26
Mean −0.1728
Std Dev 1.361
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

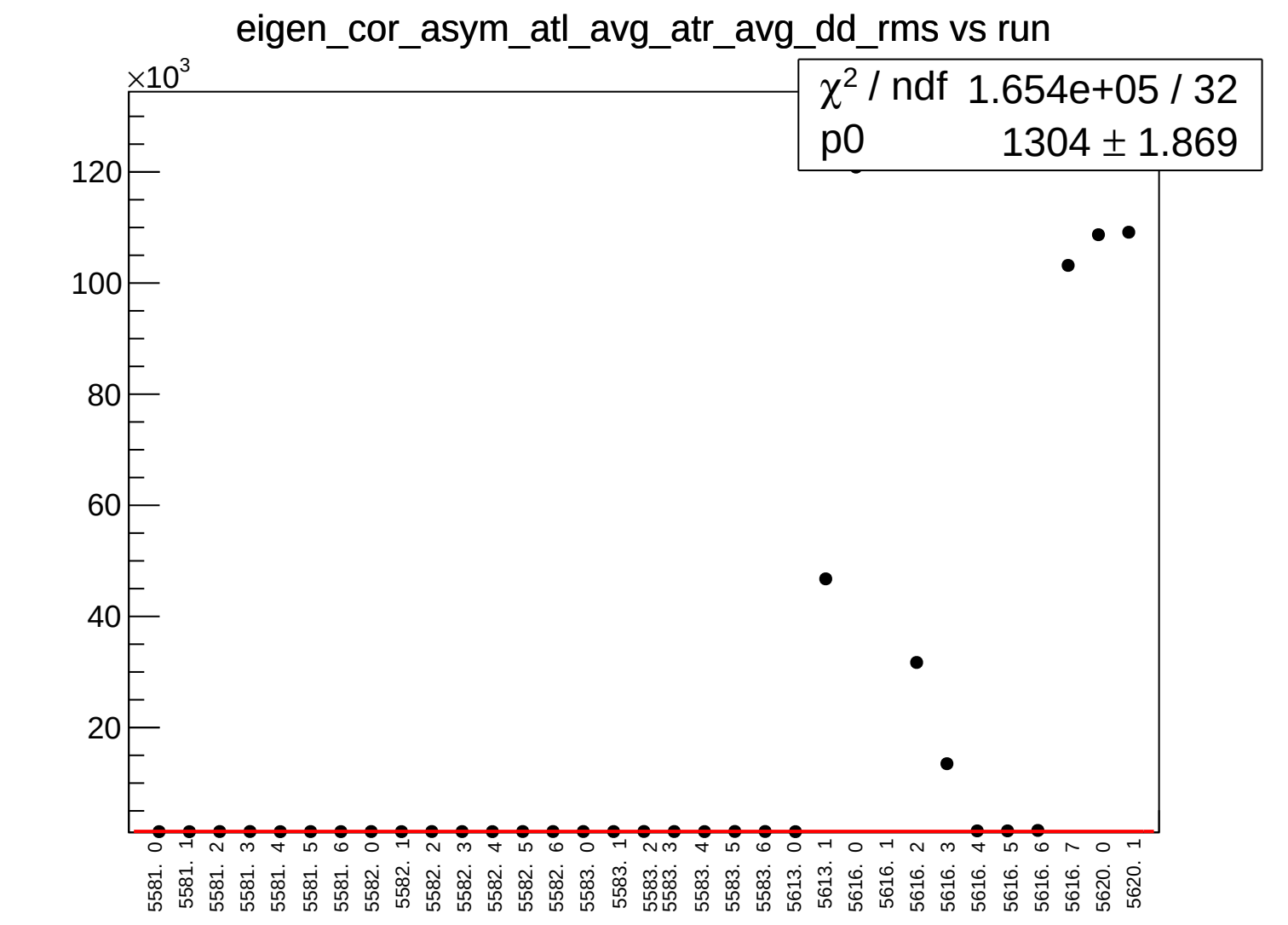

cor_asym_atl_avg_atr_avg_dd_rms vs run
×10^3
χ² / ndf 1.654e+05 / 32
p0 1304 ± 1.869
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

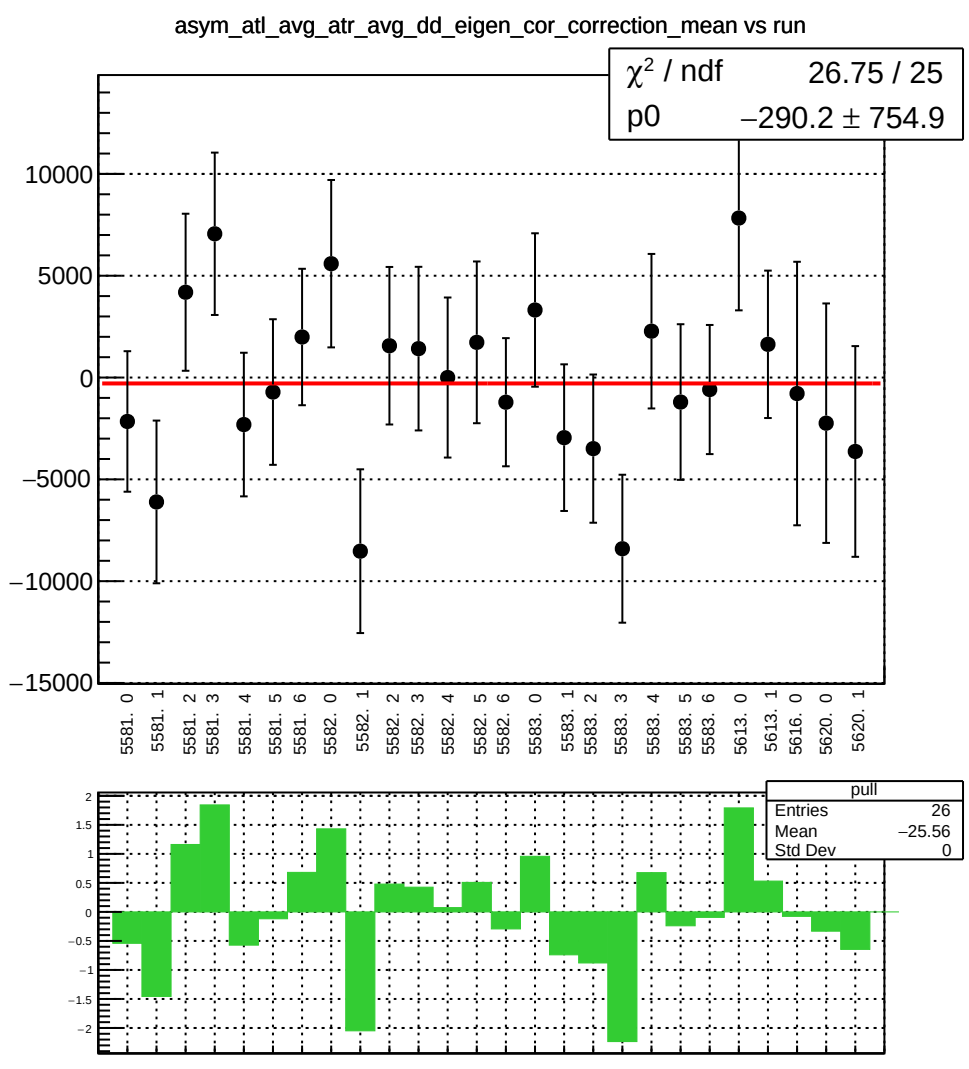

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 26.75 / 25
p0 −290.2 ± 754.9
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −25.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

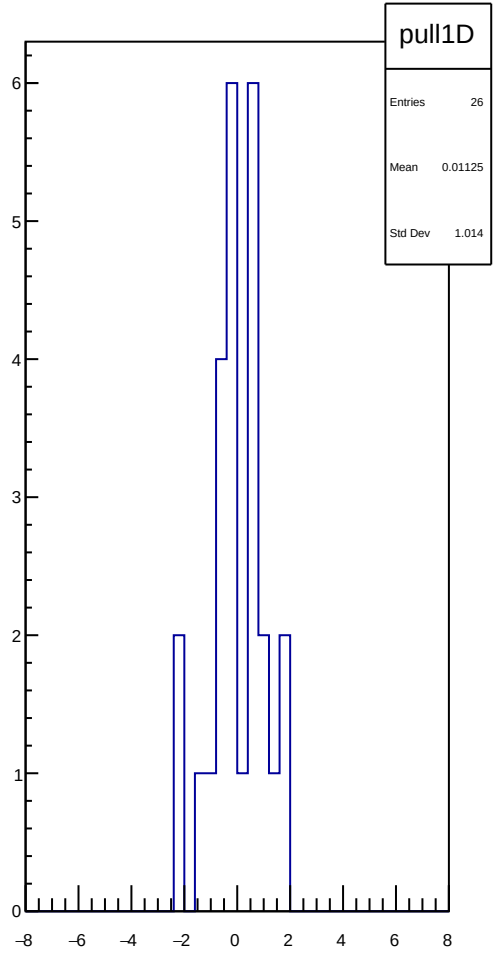

pull1D
Entries 26
Mean 0.01125
Std Dev 1.014
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

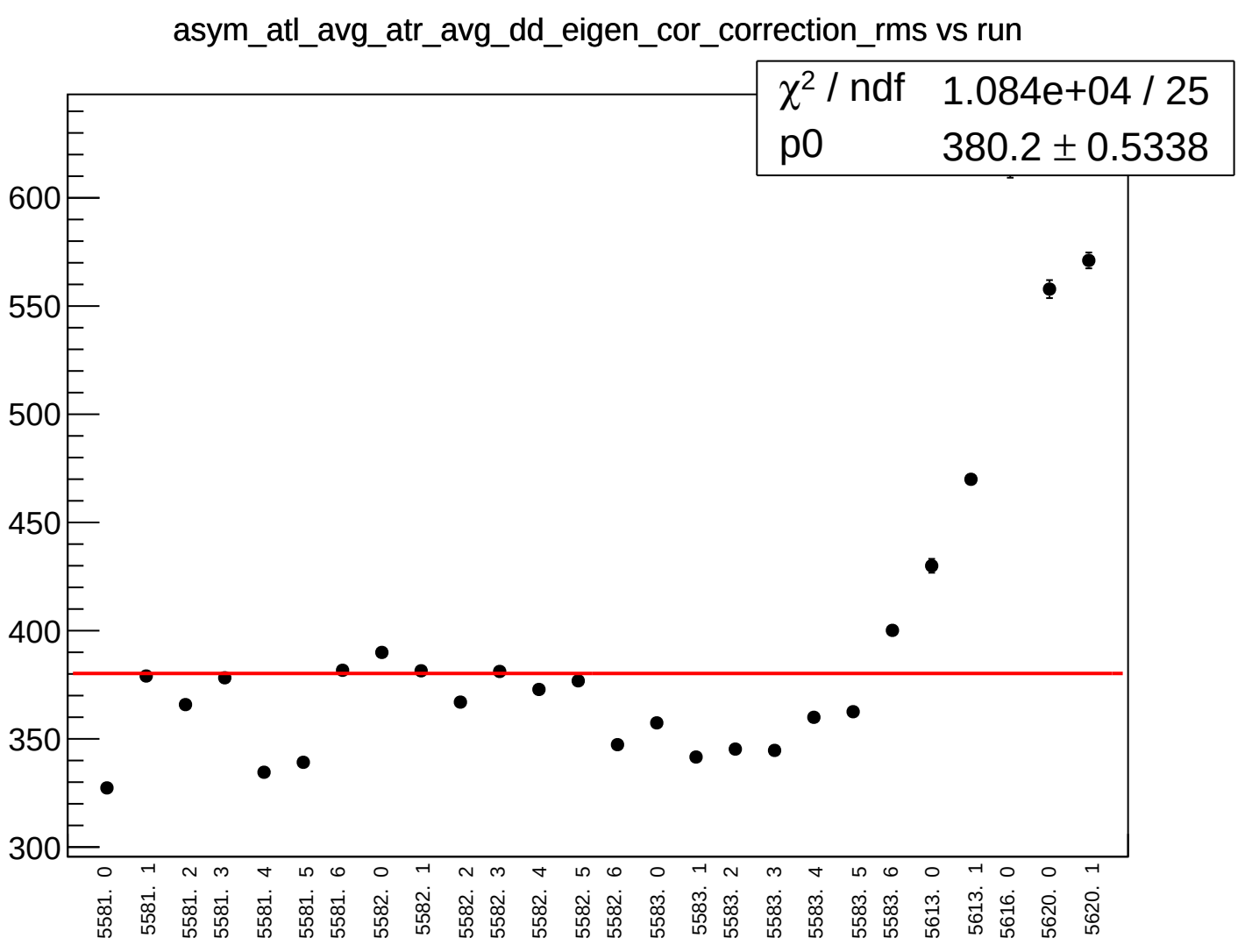

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.084e+04 / 25
p0 380.2 ± 0.5338
600
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

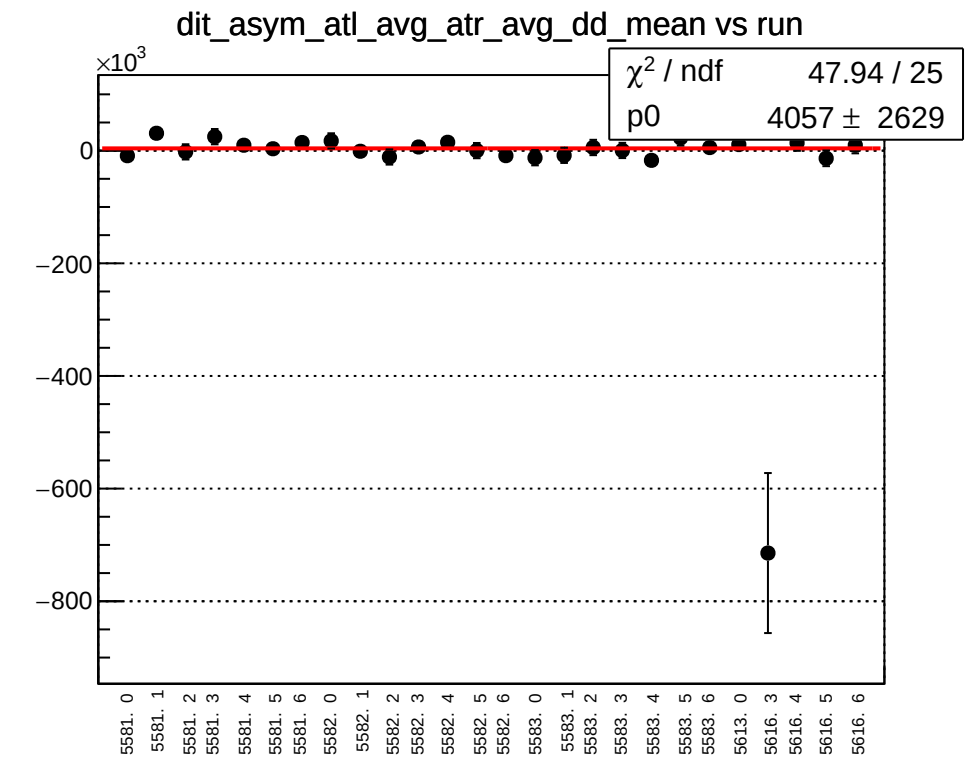

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 48.95 / 25
p0 4394 ± 2644
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 28.87
Std Dev 0
pull1D
Entries 26
Mean −0.1728
Std Dev 1.361

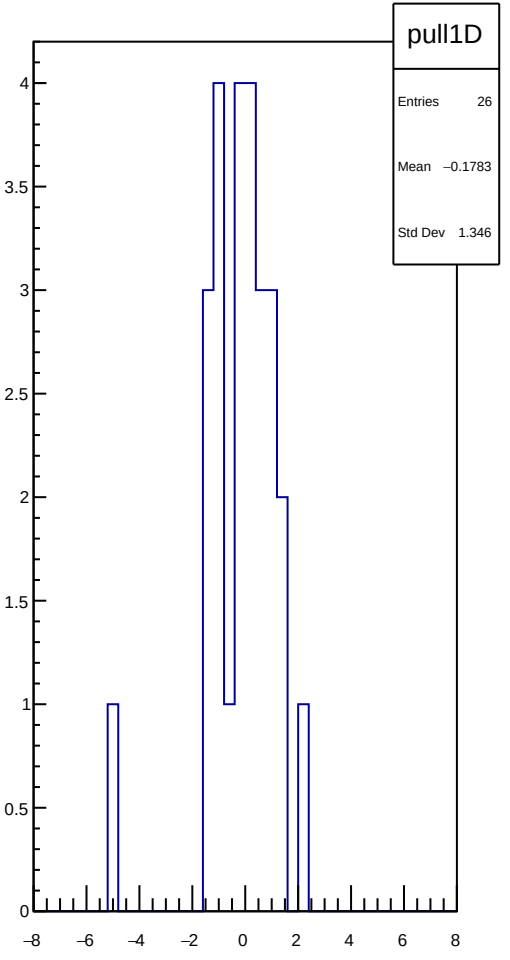

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.654e+05 / 32
p0 1304 ± 1.869
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

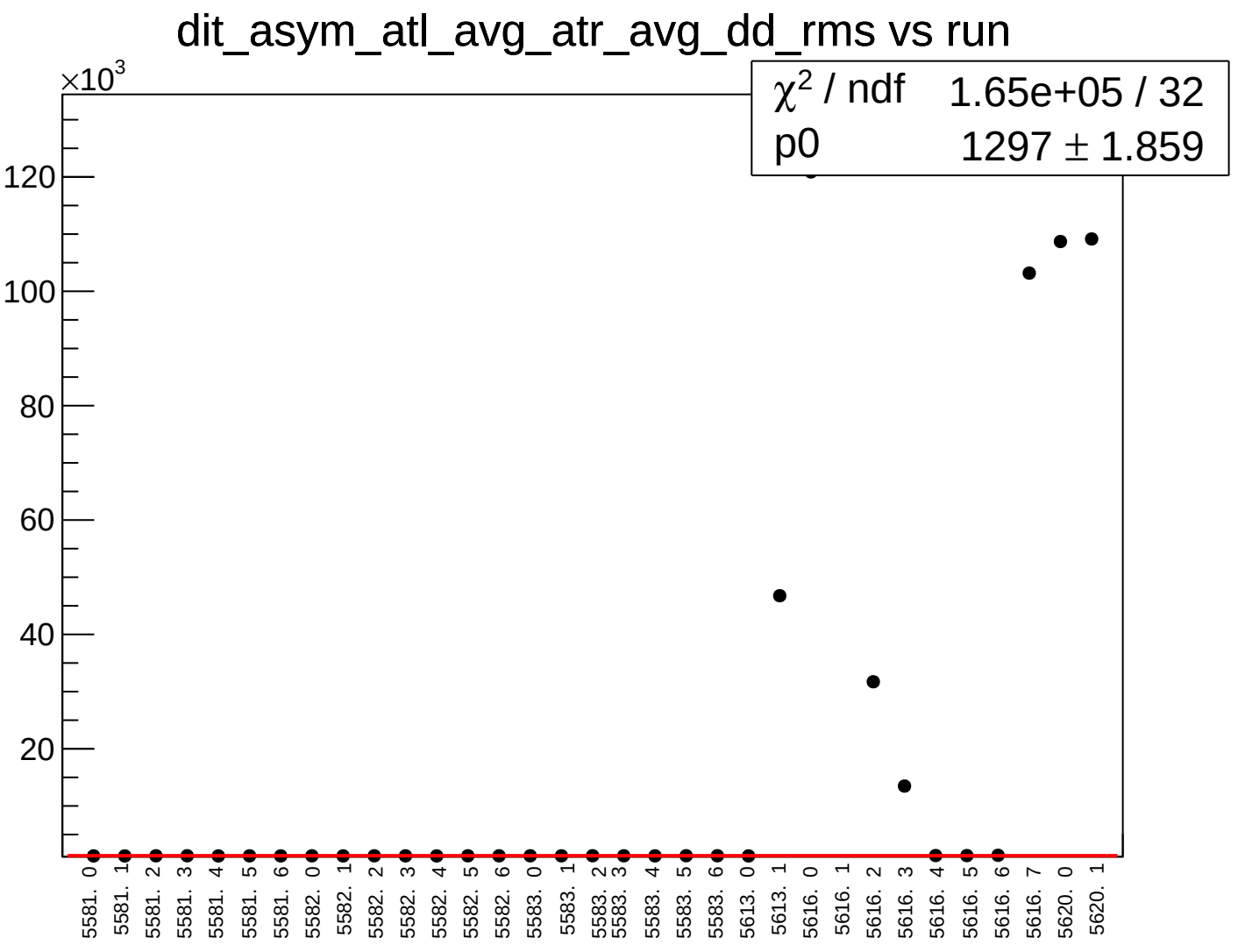

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 26.75 / 25
p0 −290.2 ± 754.9
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −25.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

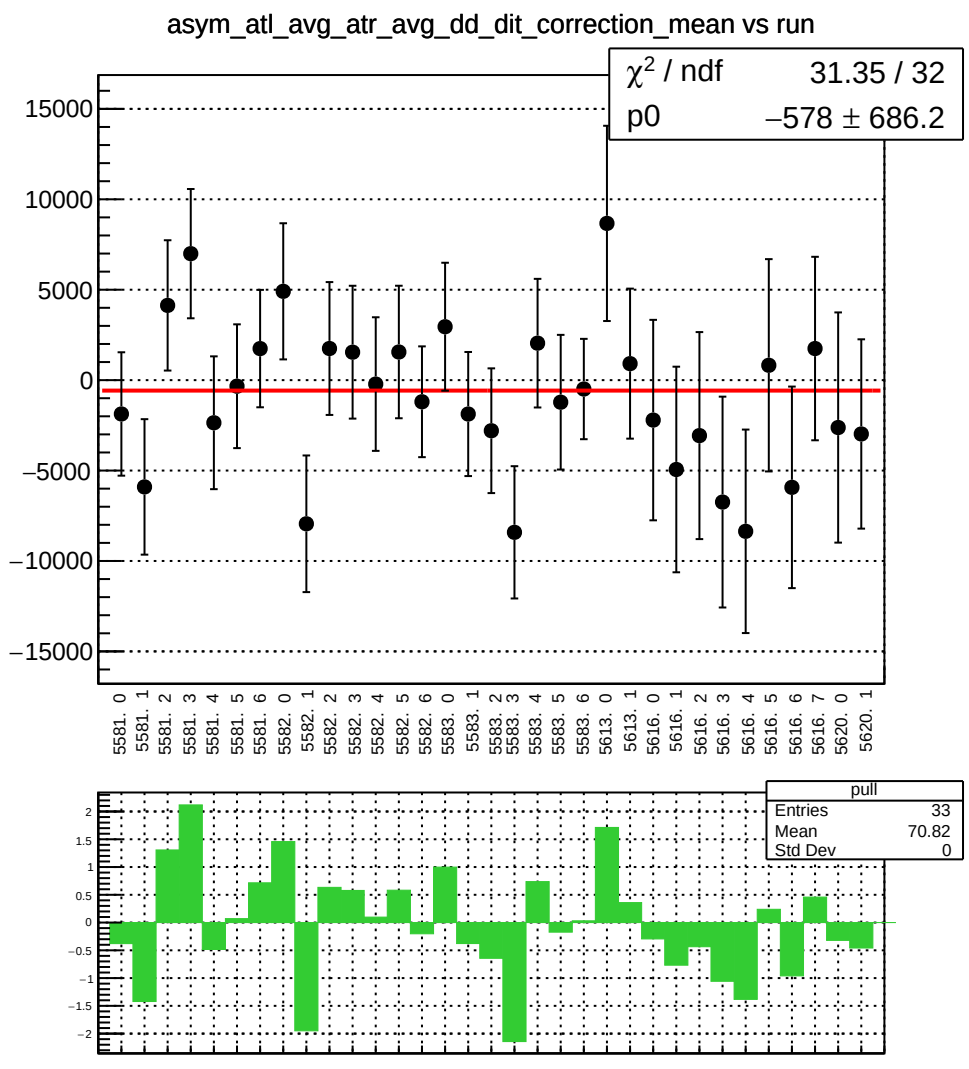

pull1D
Entries 26
Mean 0.01125
Std Dev 1.014
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

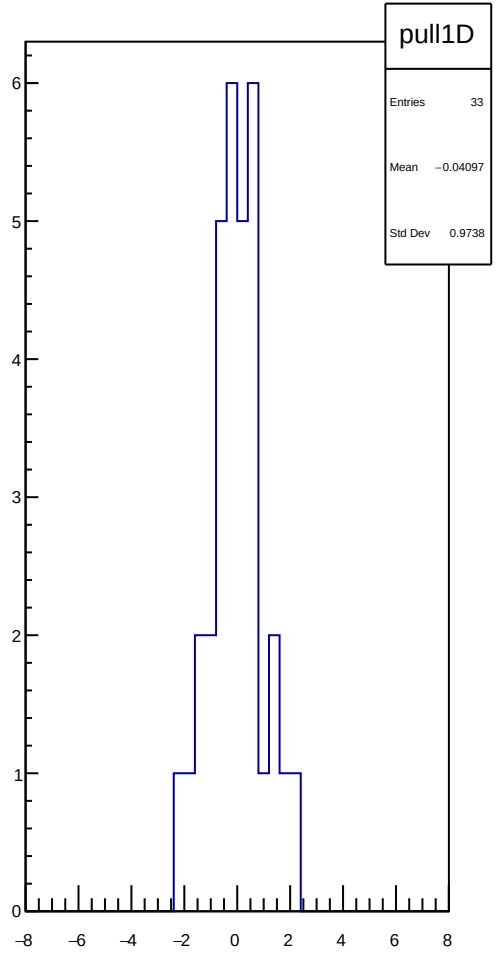

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.084e+04 / 25
p0 380.2 ± 0.5338
600
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

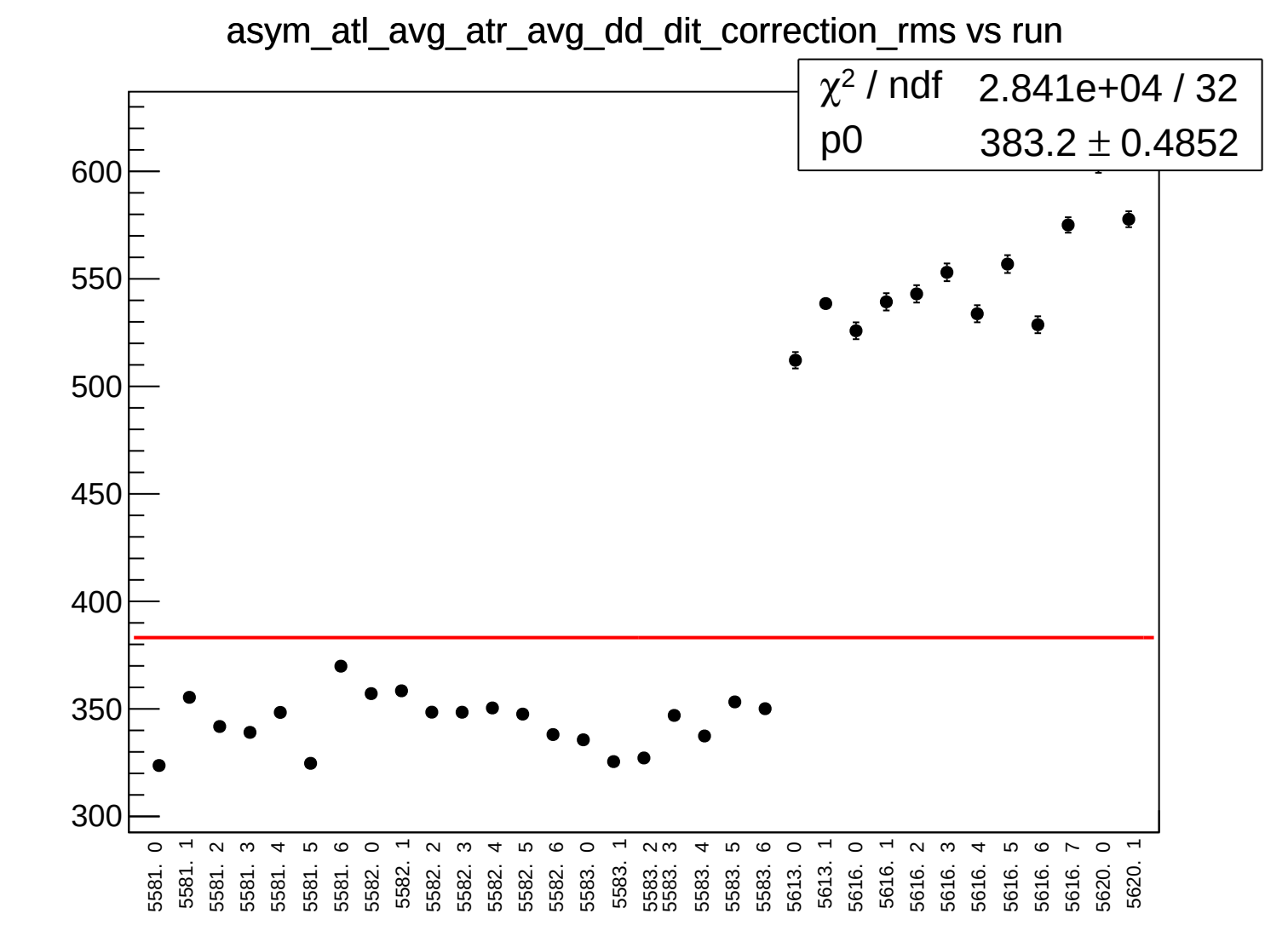

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 47.94 / 25
p0 4057 ± 2629
×10³
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 30.64
Std Dev 0

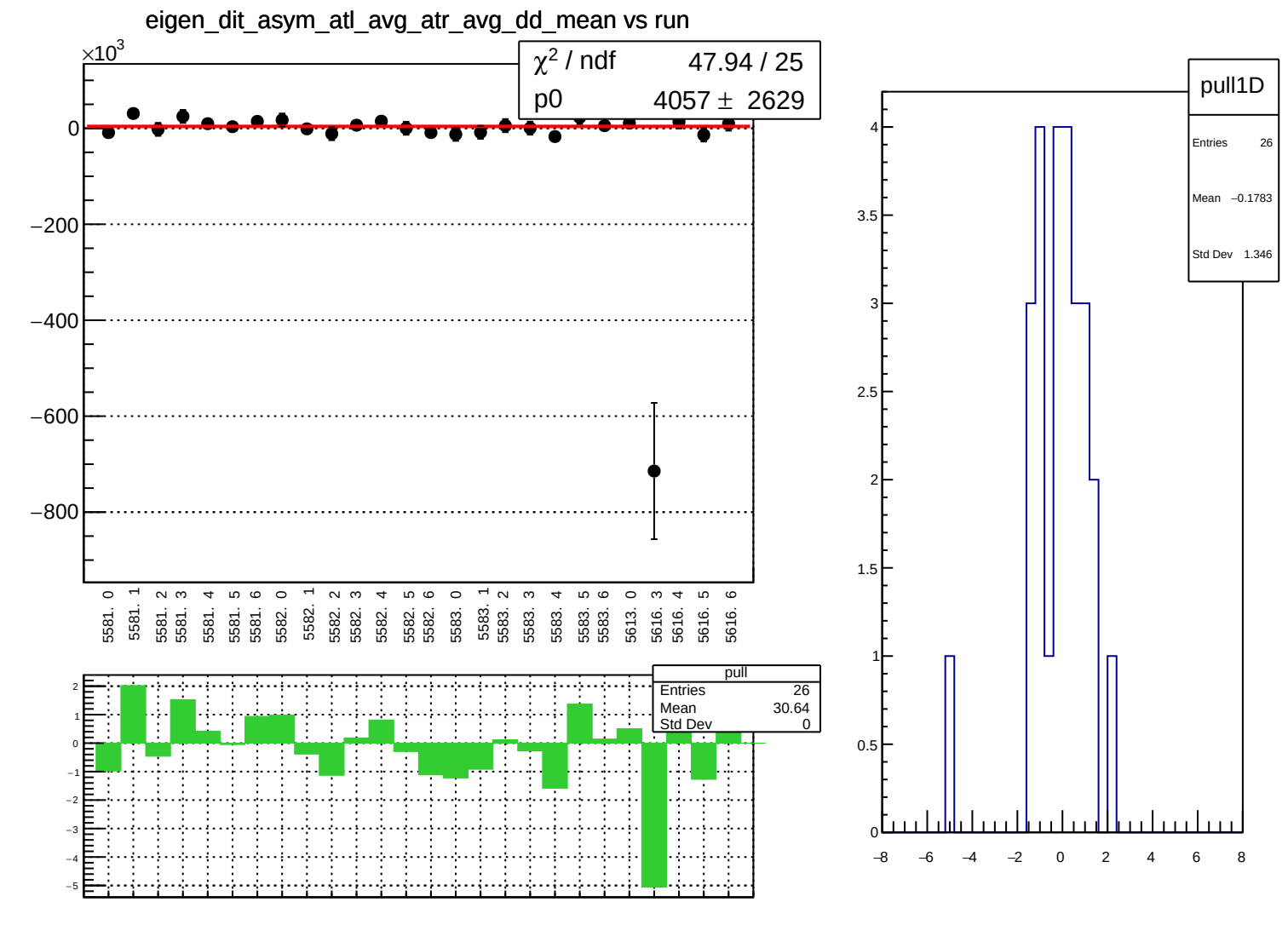

pull1D
Entries 26
Mean −0.1783
Std Dev 1.346

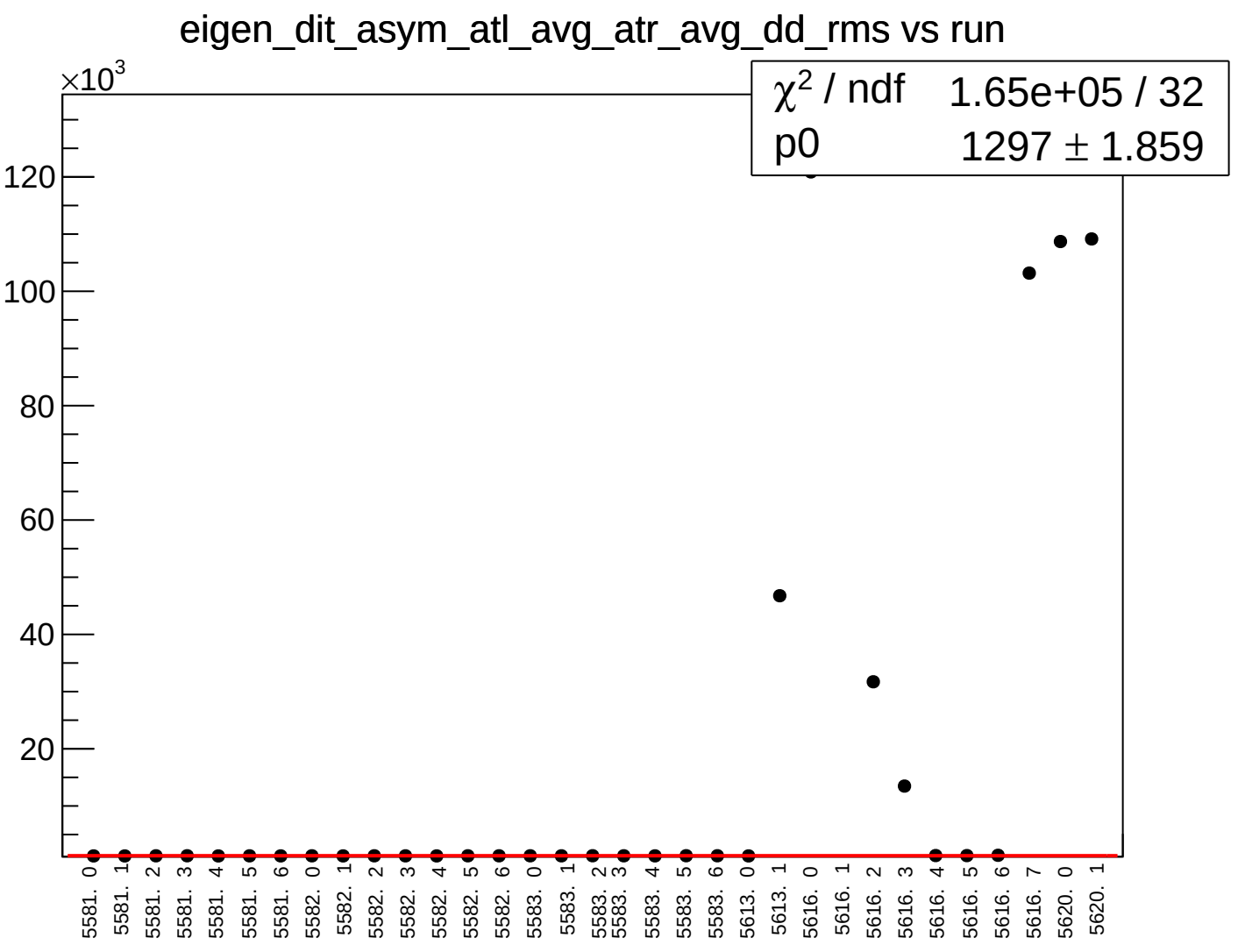

dit_asym_atl_avg_atr_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.65e+05 / 32
p0 1297 ± 1.859
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

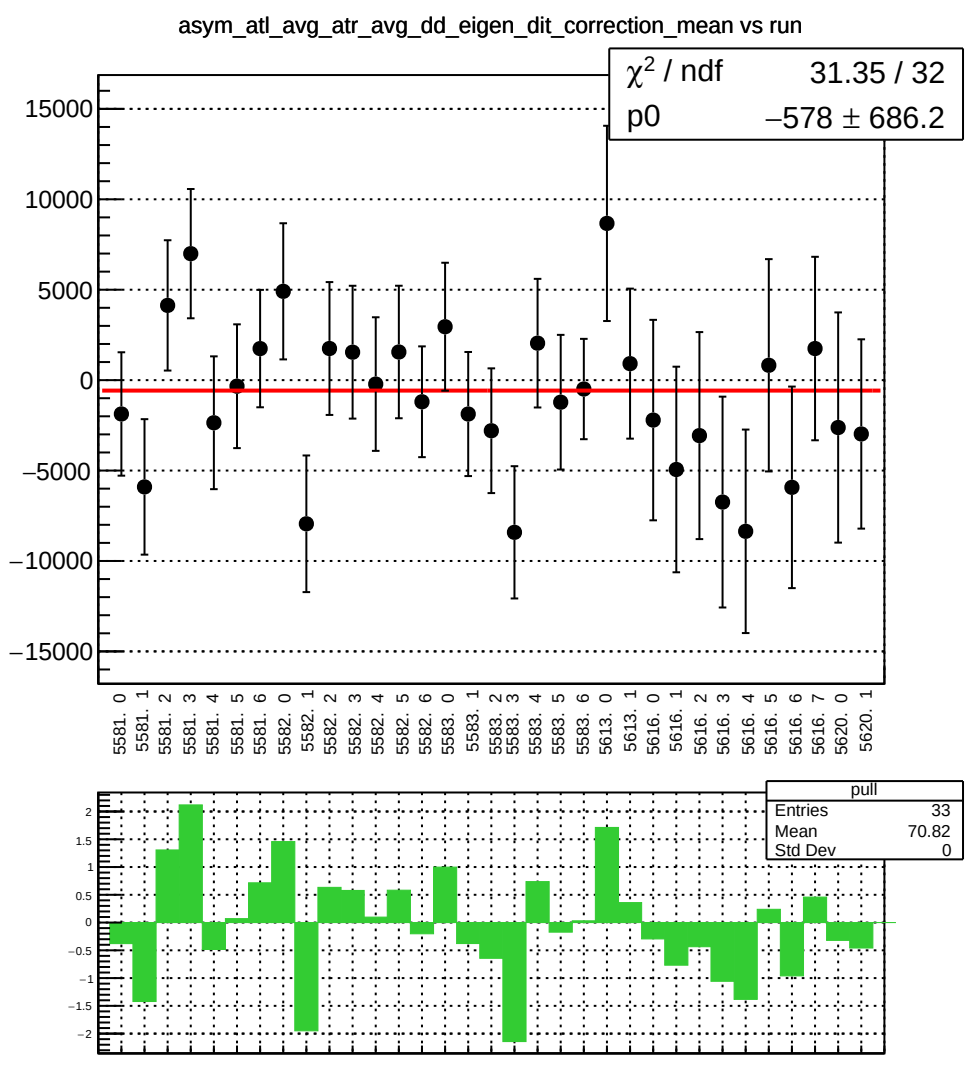

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 31.35 / 32
p0 −578 ± 686.2
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 70.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

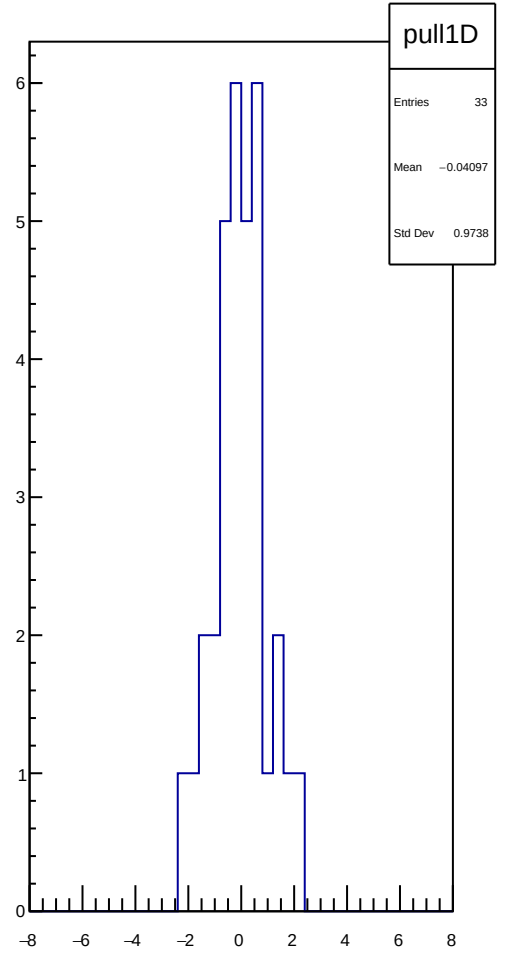

pull1D
Entries 33
Mean −0.04097
Std Dev 0.9738
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

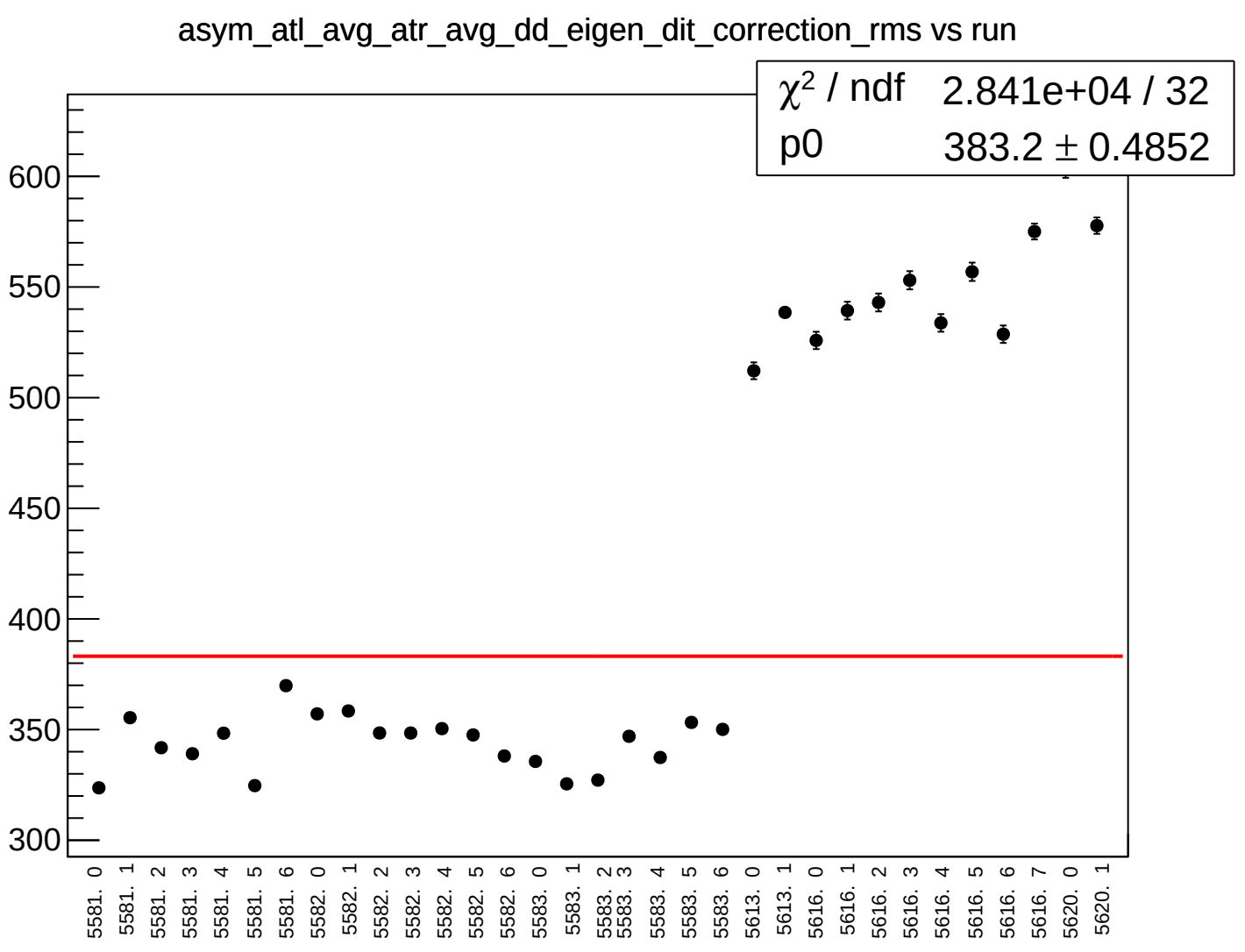

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.841e+04 / 32
p0 383.2 ± 0.4852
600
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

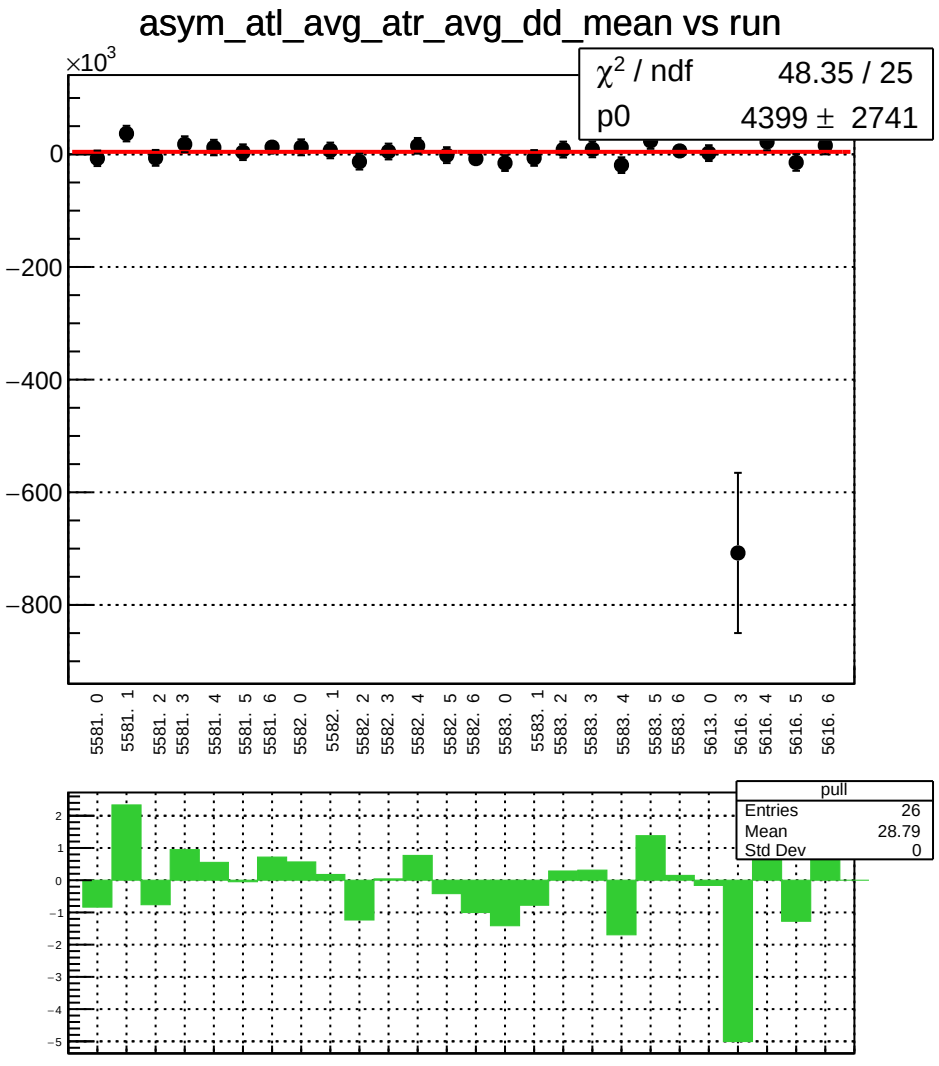

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ^2 / ndf 47.94 / 25
p0 4057 ± 2629
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 30.64
Std Dev 0
pull1D
Entries 26
Mean −0.1783
Std Dev 1.346

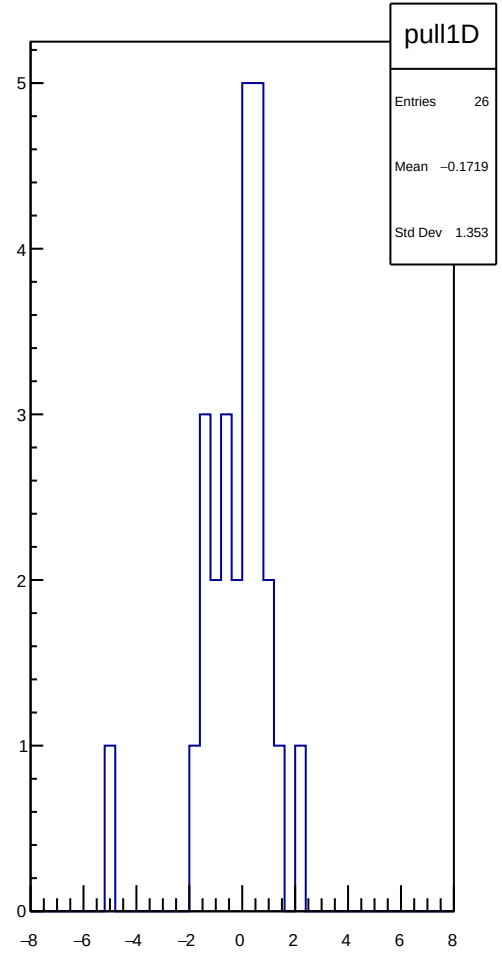

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.65e+05 / 32
p0 1297 ± 1.859
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

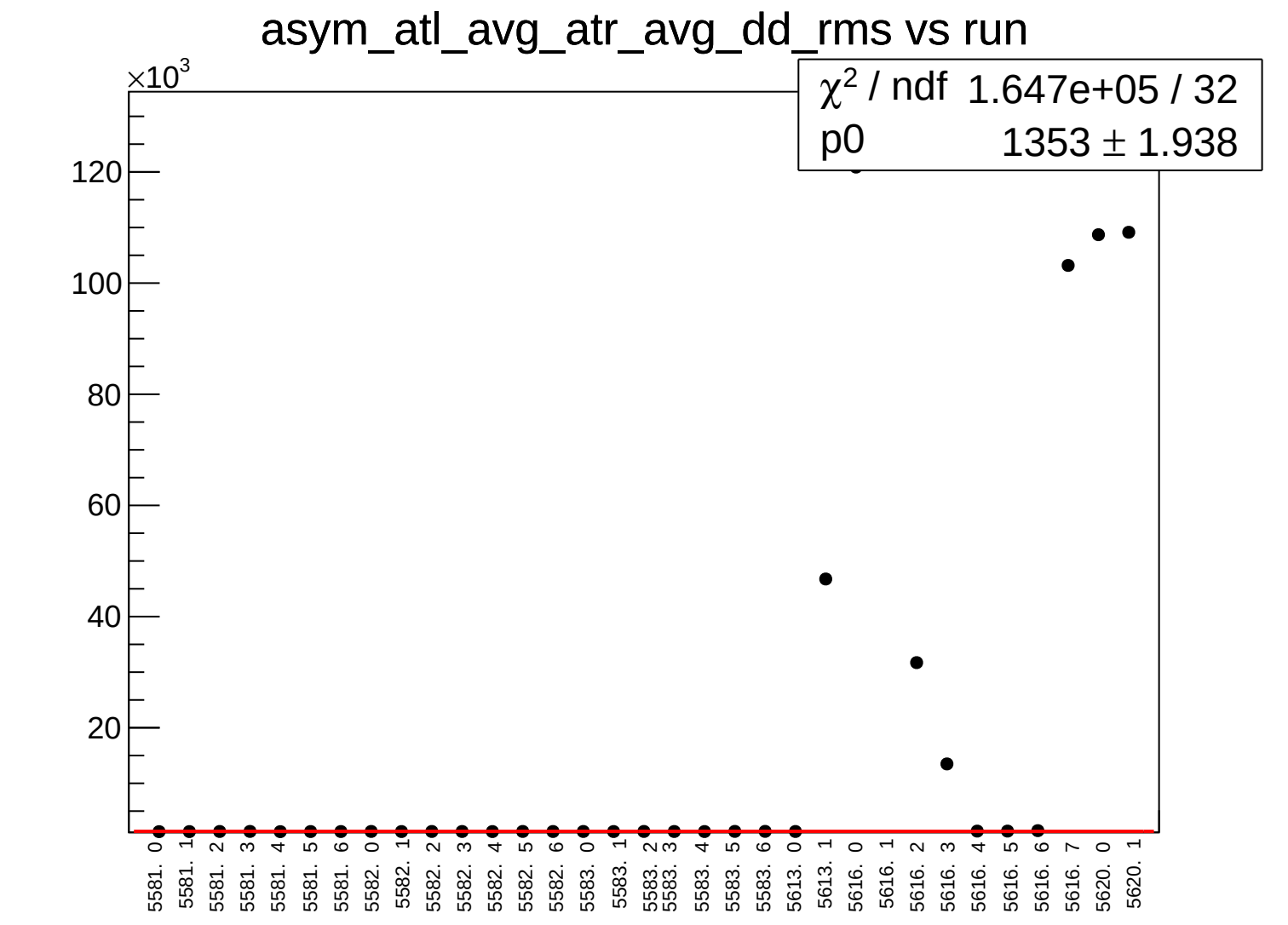

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 31.35 / 32
p0 −578 ± 686.2
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 70.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

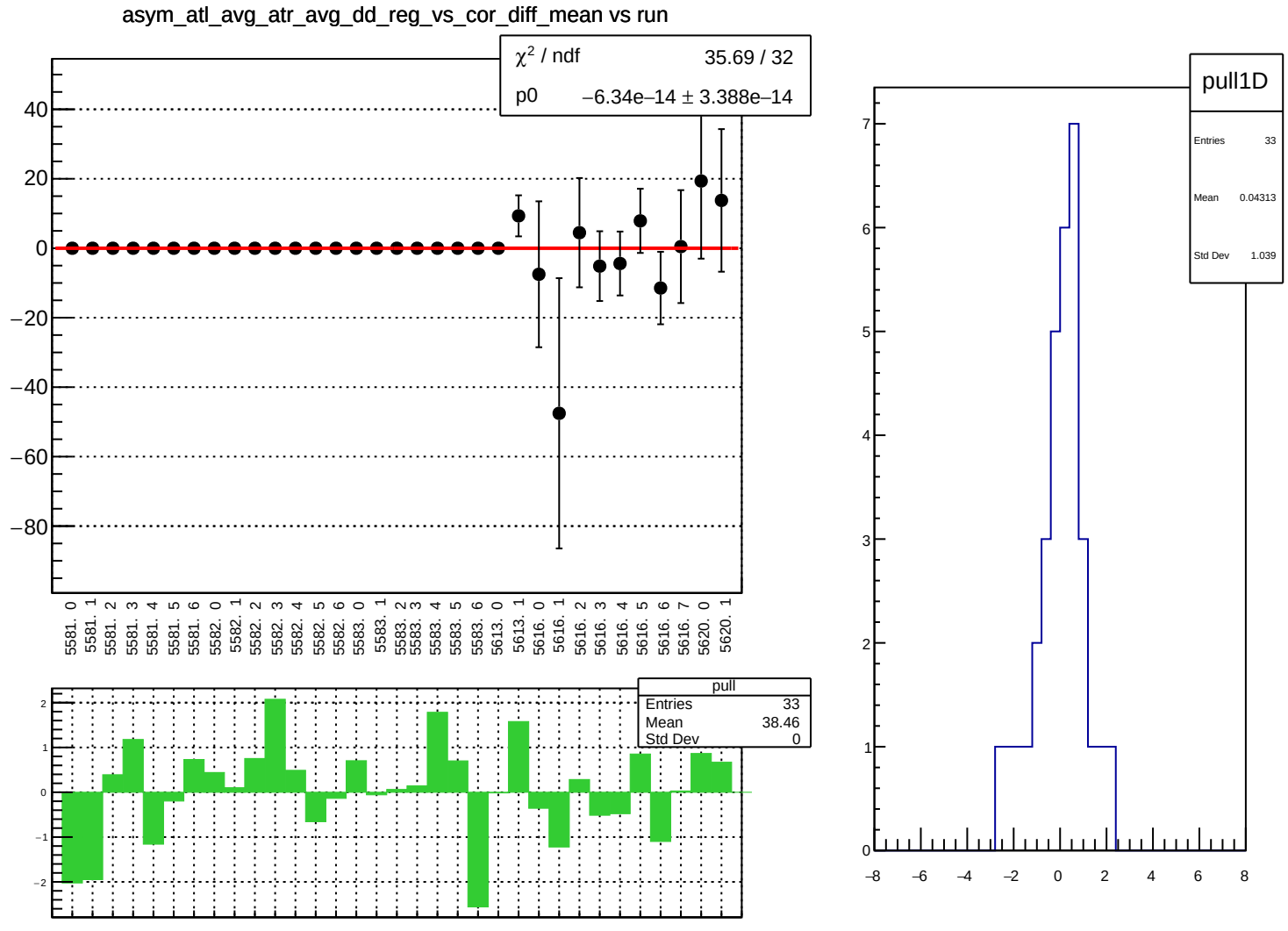

pull1D
Entries 33
Mean −0.04097
Std Dev 0.9738
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

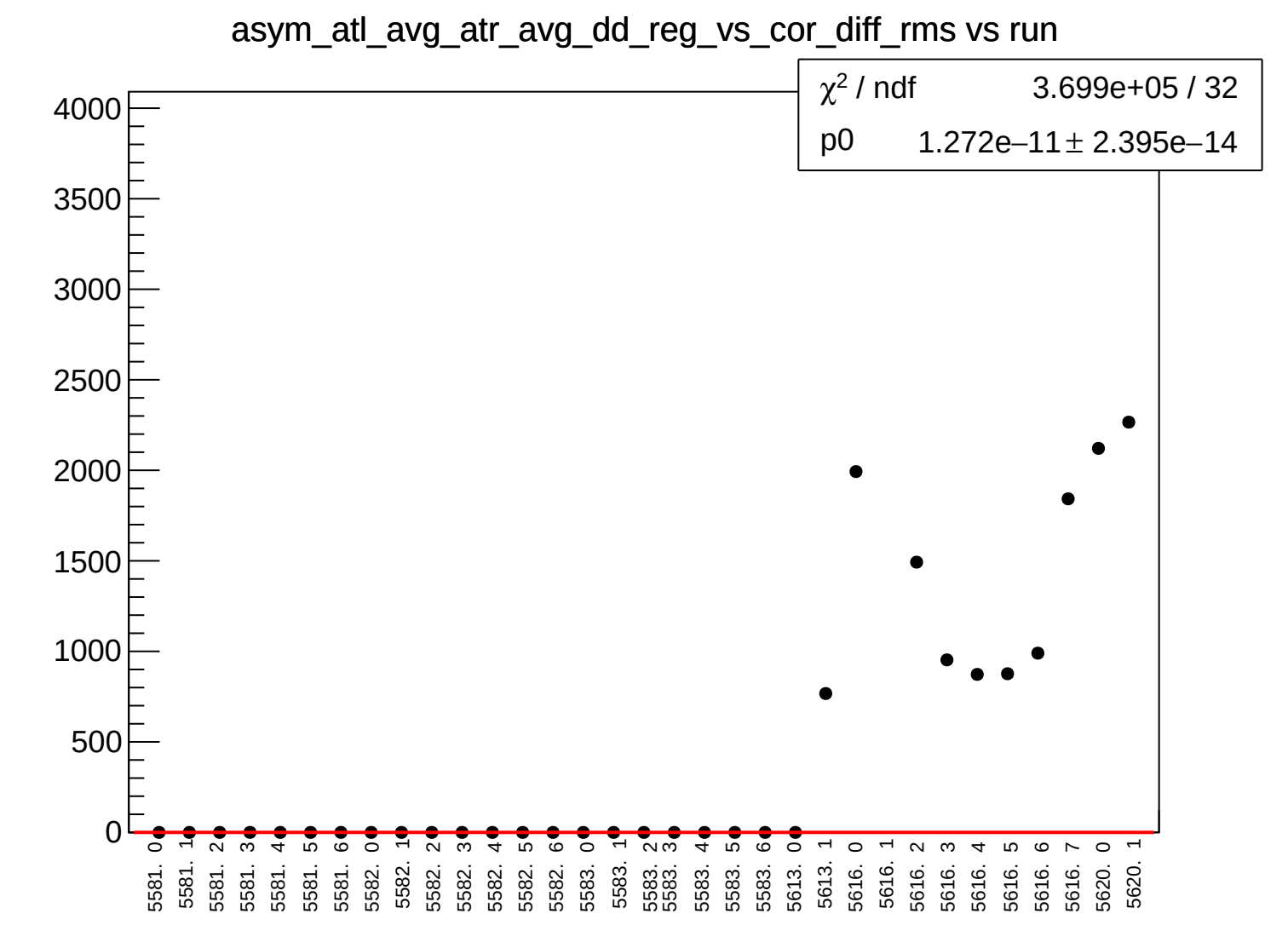

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.841e+04 / 32
p0 383.2 ± 0.4852
600
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

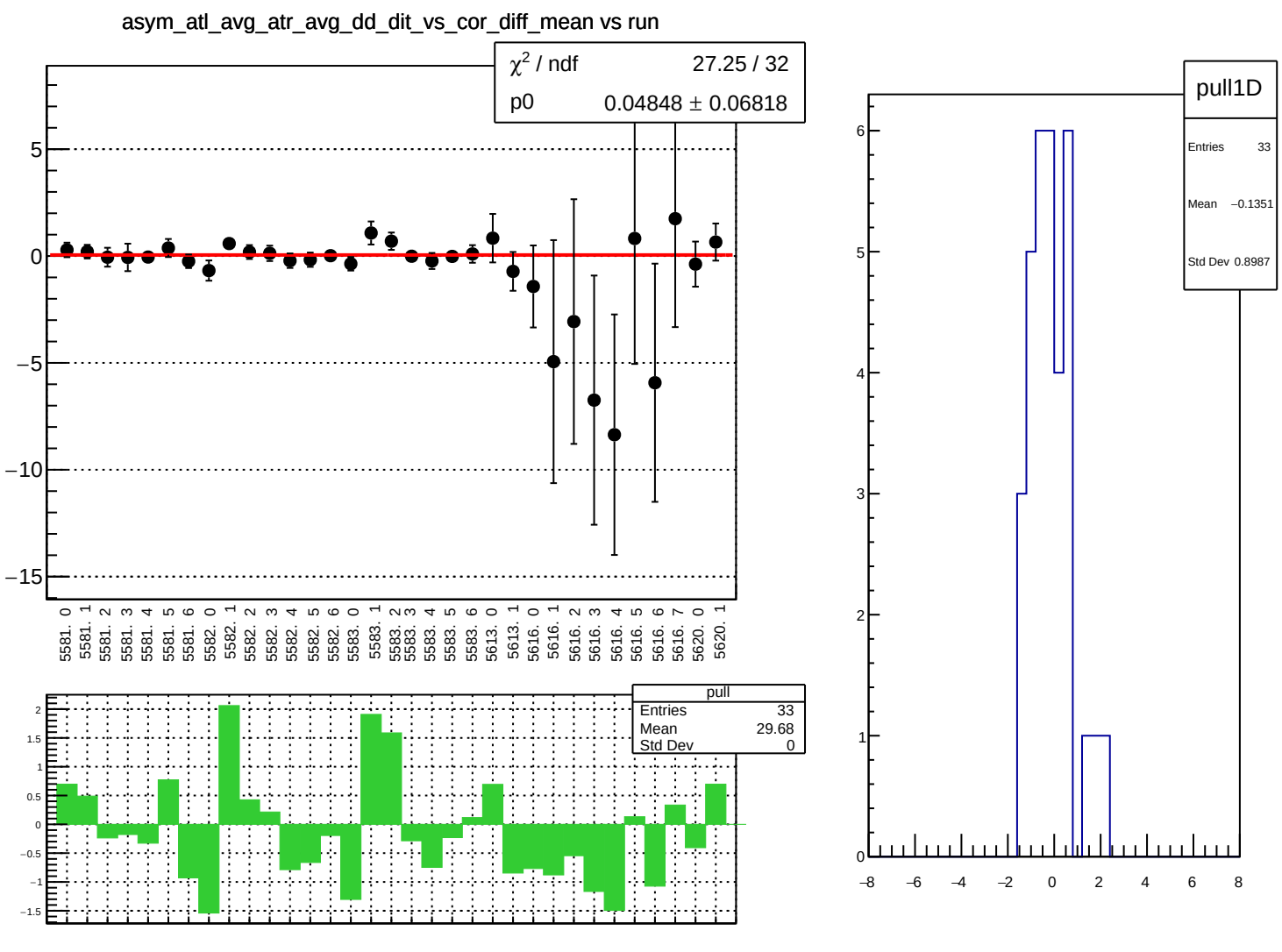

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ^2 / ndf 48.35 / 25
p0 4399 ± 2741
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 28.79
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

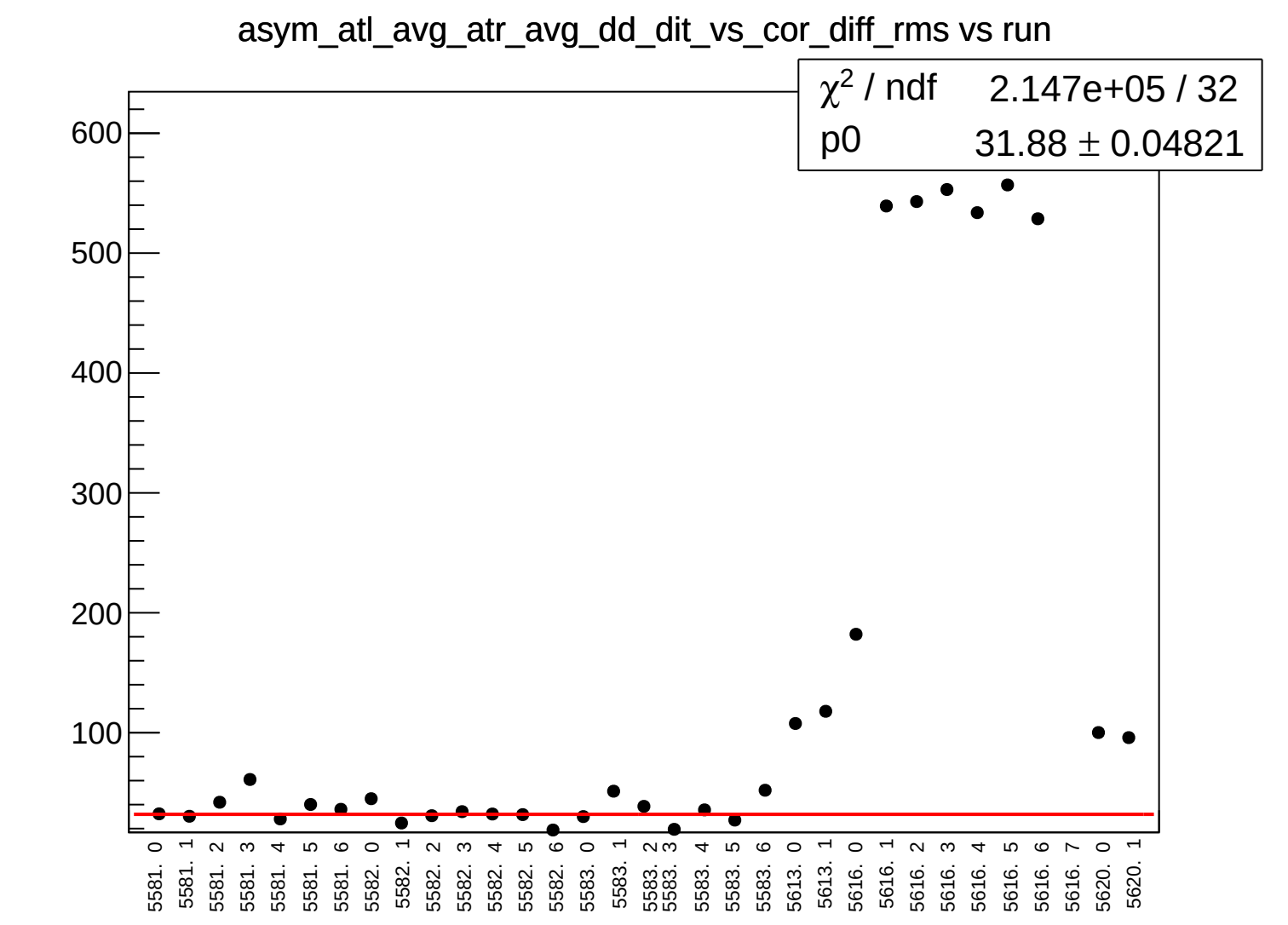

pull1D
Entries 26
Mean −0.1719
Std Dev 1.353
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

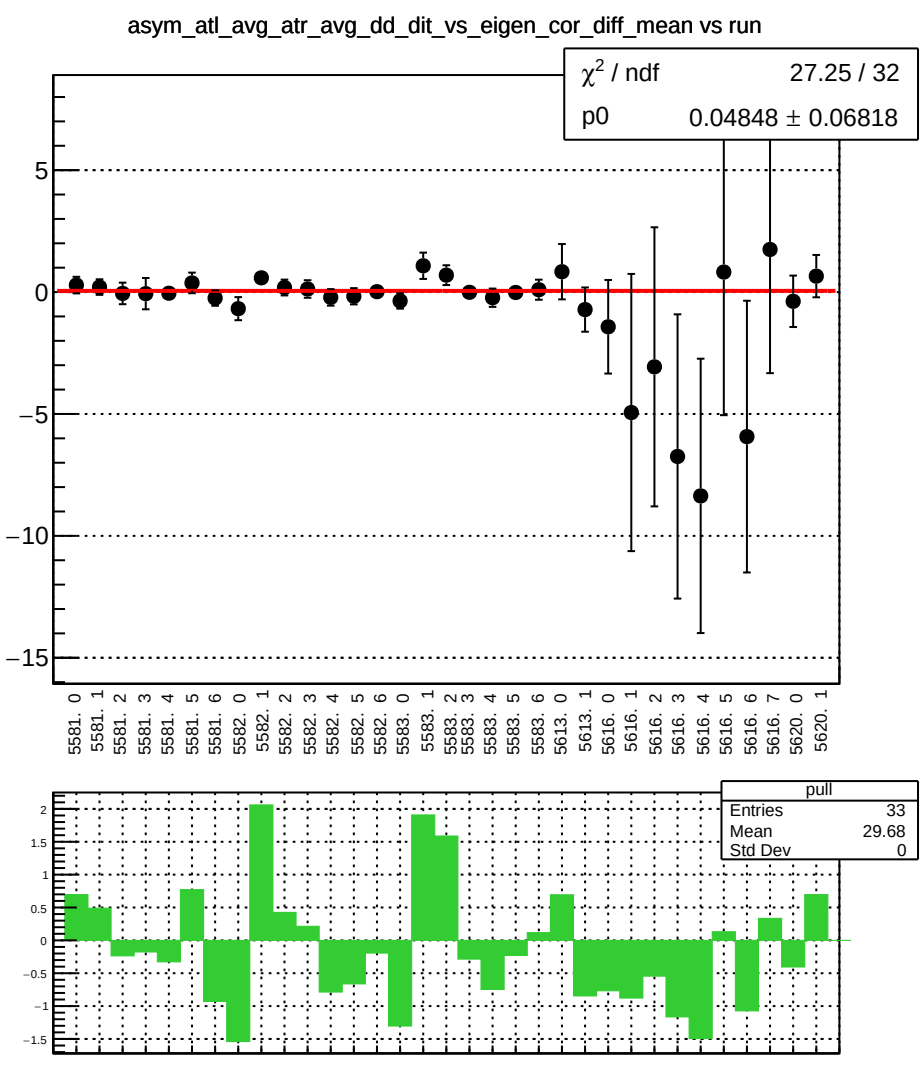

asym_atl_avg_atr_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.647e+05 / 32
p0 1353 ± 1.938
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

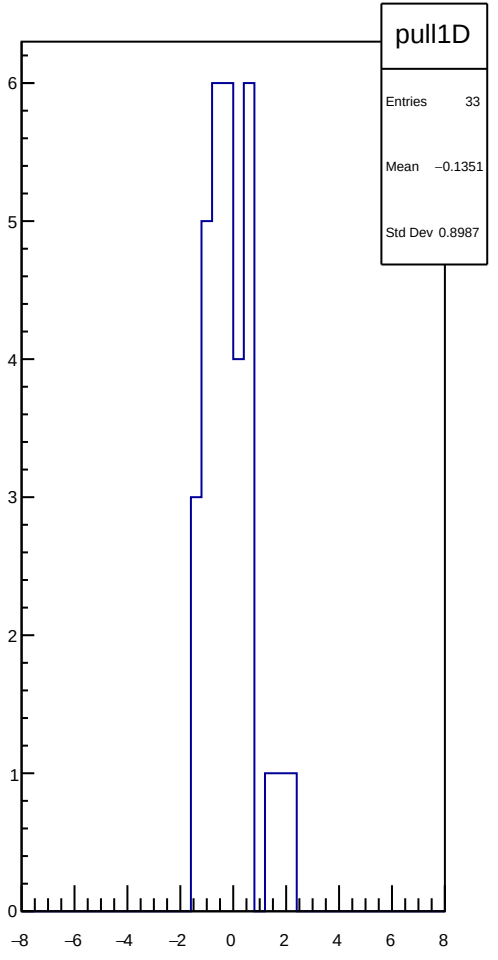

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 35.69 / 32
p0 −6.34e−14 ± 3.388e−14
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.46
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.04313
Std Dev 1.039
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

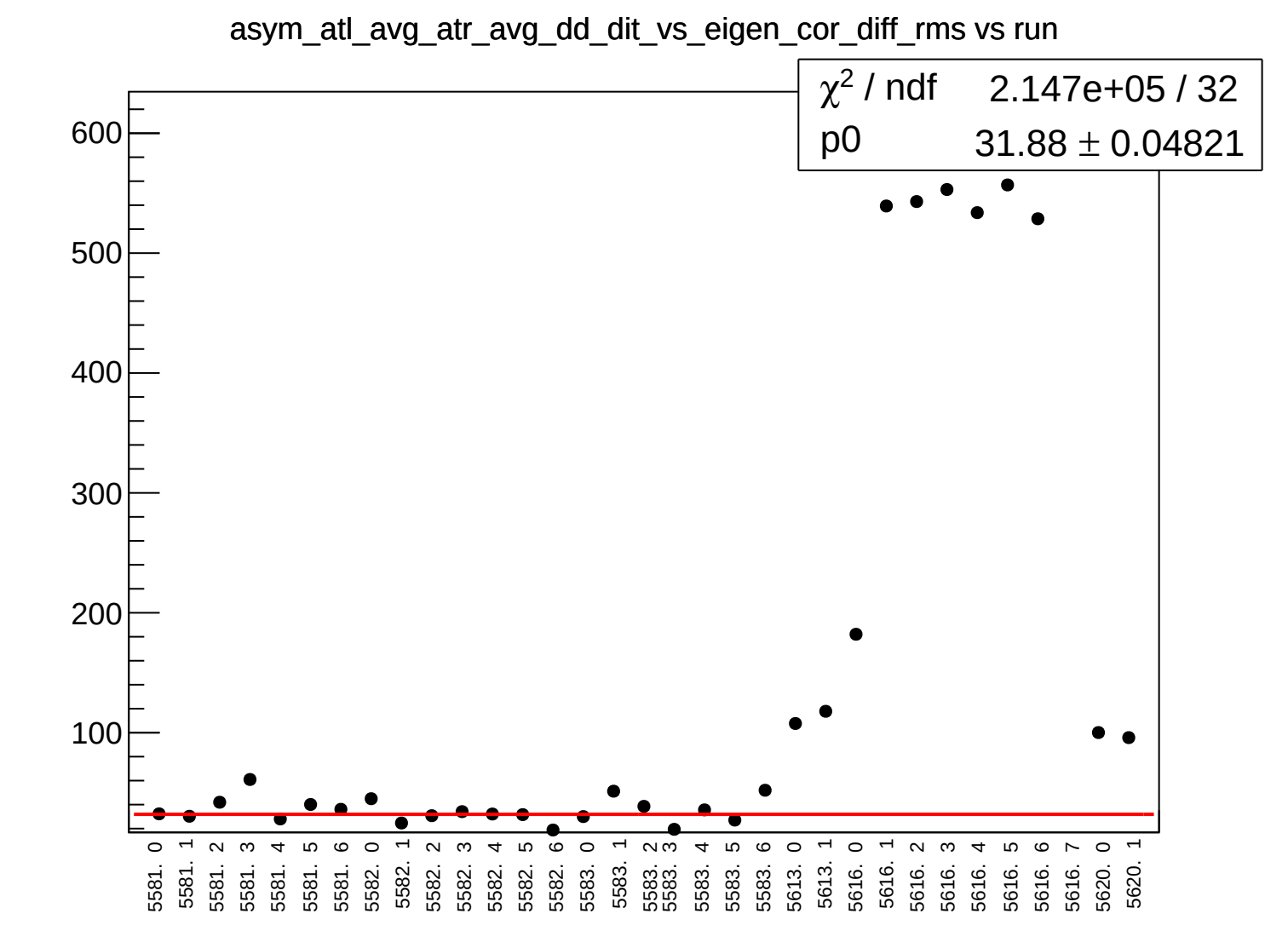

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.699e+05 / 32
p0 1.272e−11 ± 2.395e−14
4000
3500
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

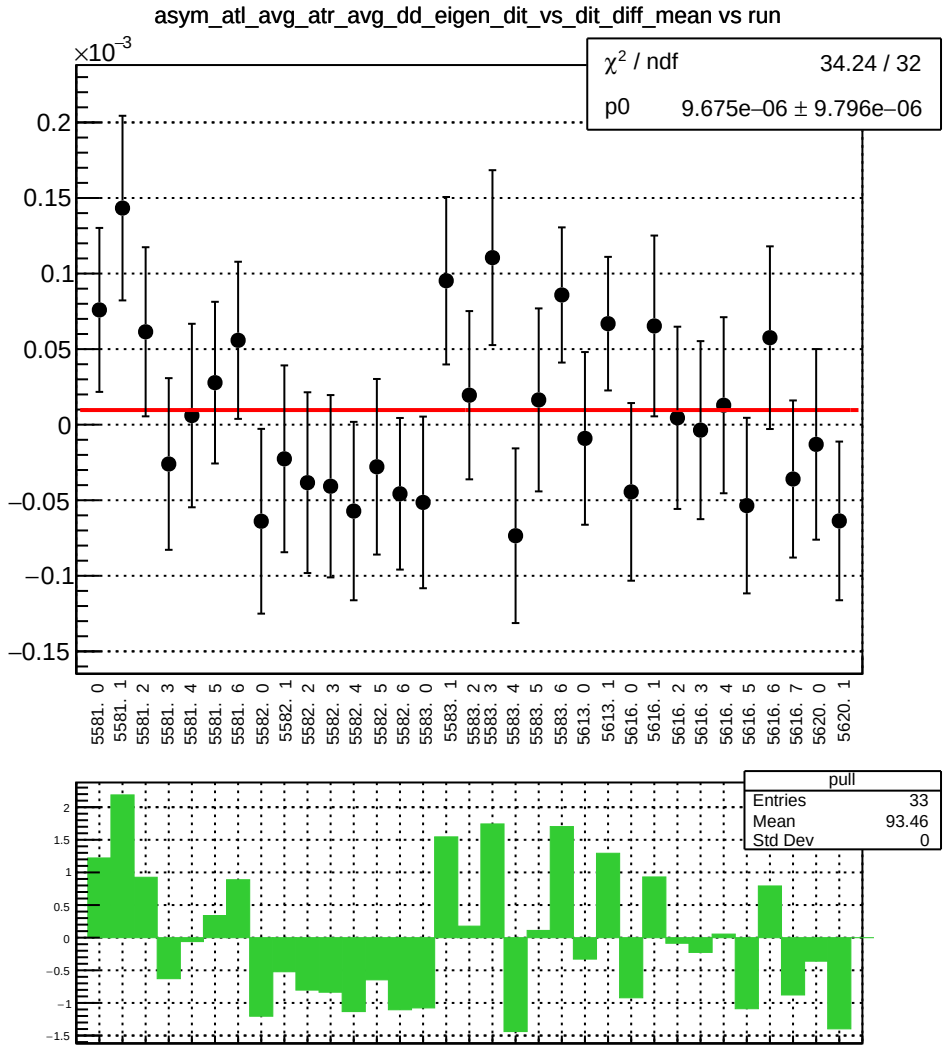

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 27.25 / 32
p0 0.04848 ± 0.06818
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1351
Std Dev 0.8987
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

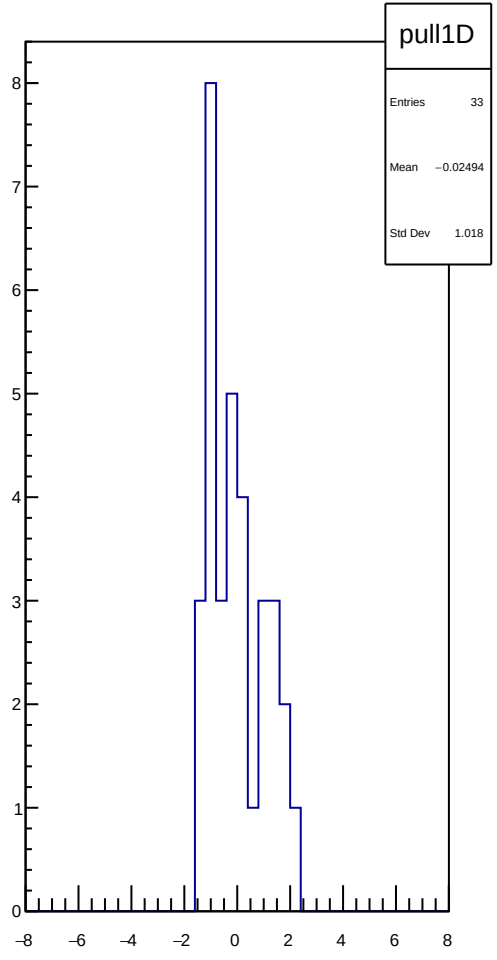

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.147e+05 / 32
p0 31.88 ± 0.04821
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

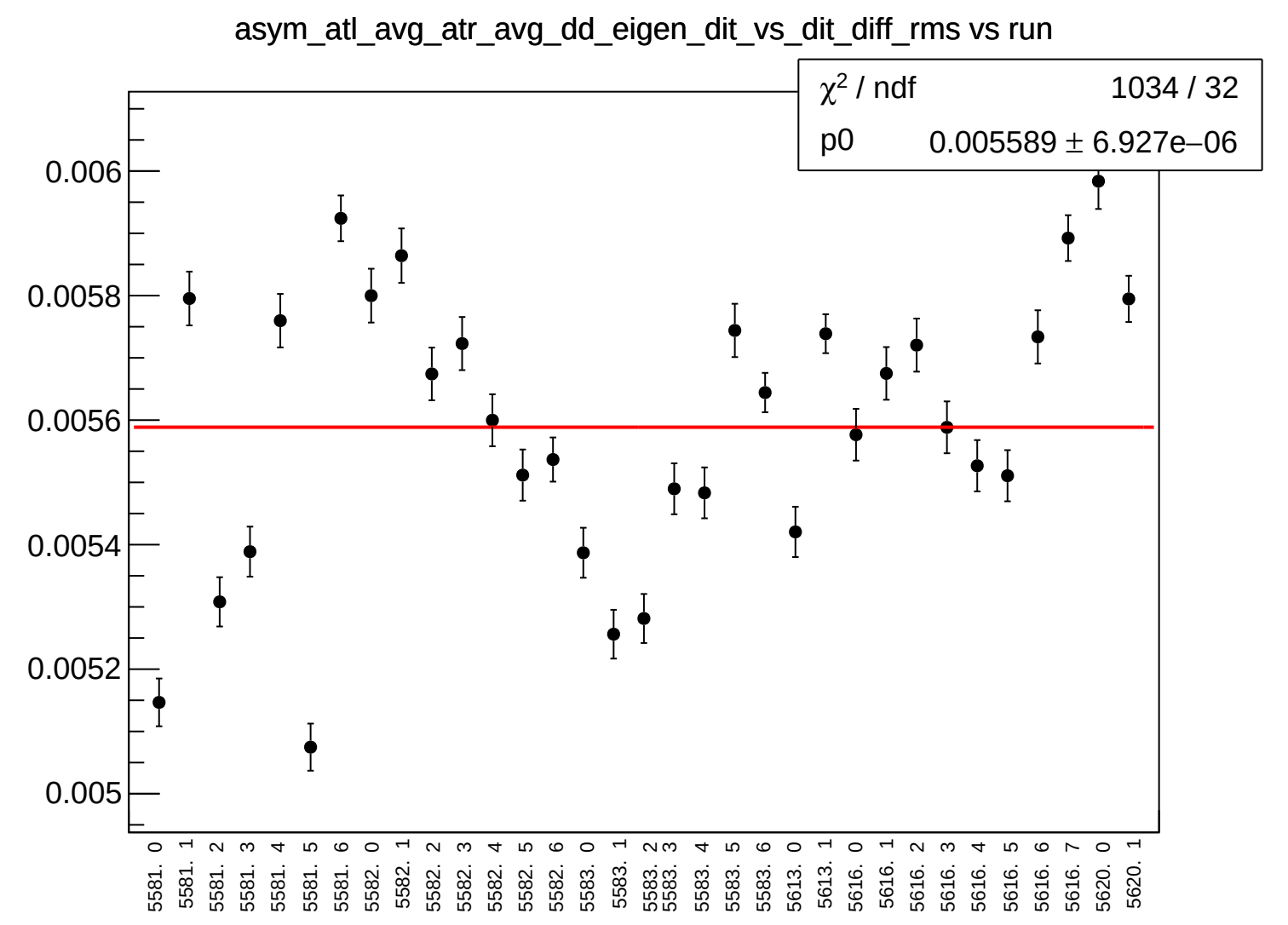

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.25 / 32
p0 0.04848 ± 0.06818
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

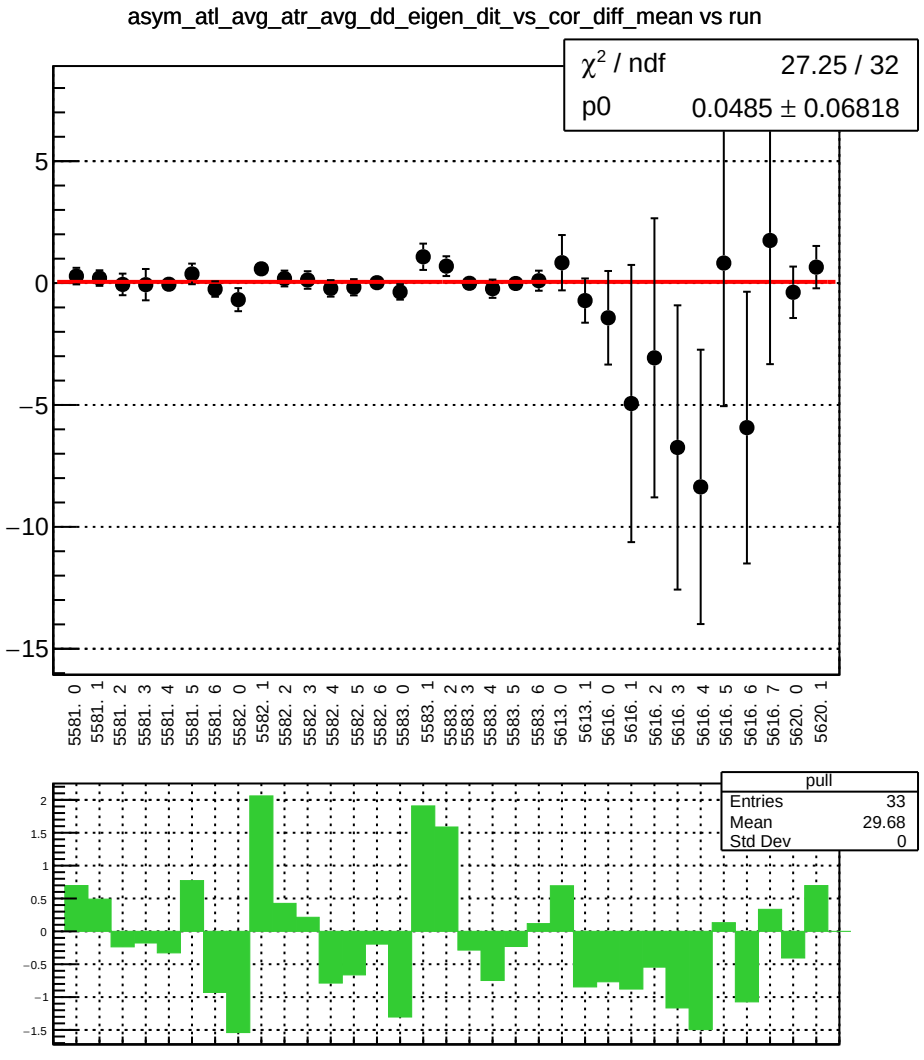

pull1D
Entries 33
Mean −0.1351
Std Dev 0.8987
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

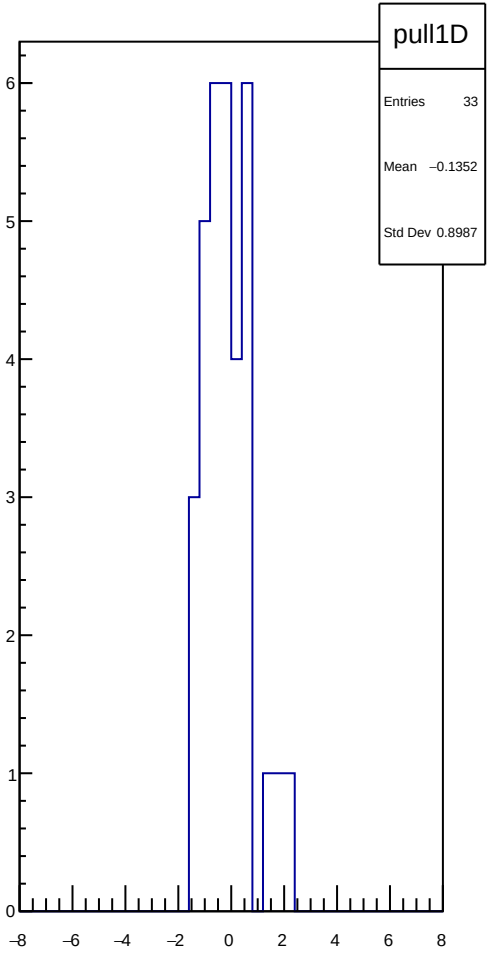

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 2.147e+05 / 32
p0 31.88 ± 0.04821
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

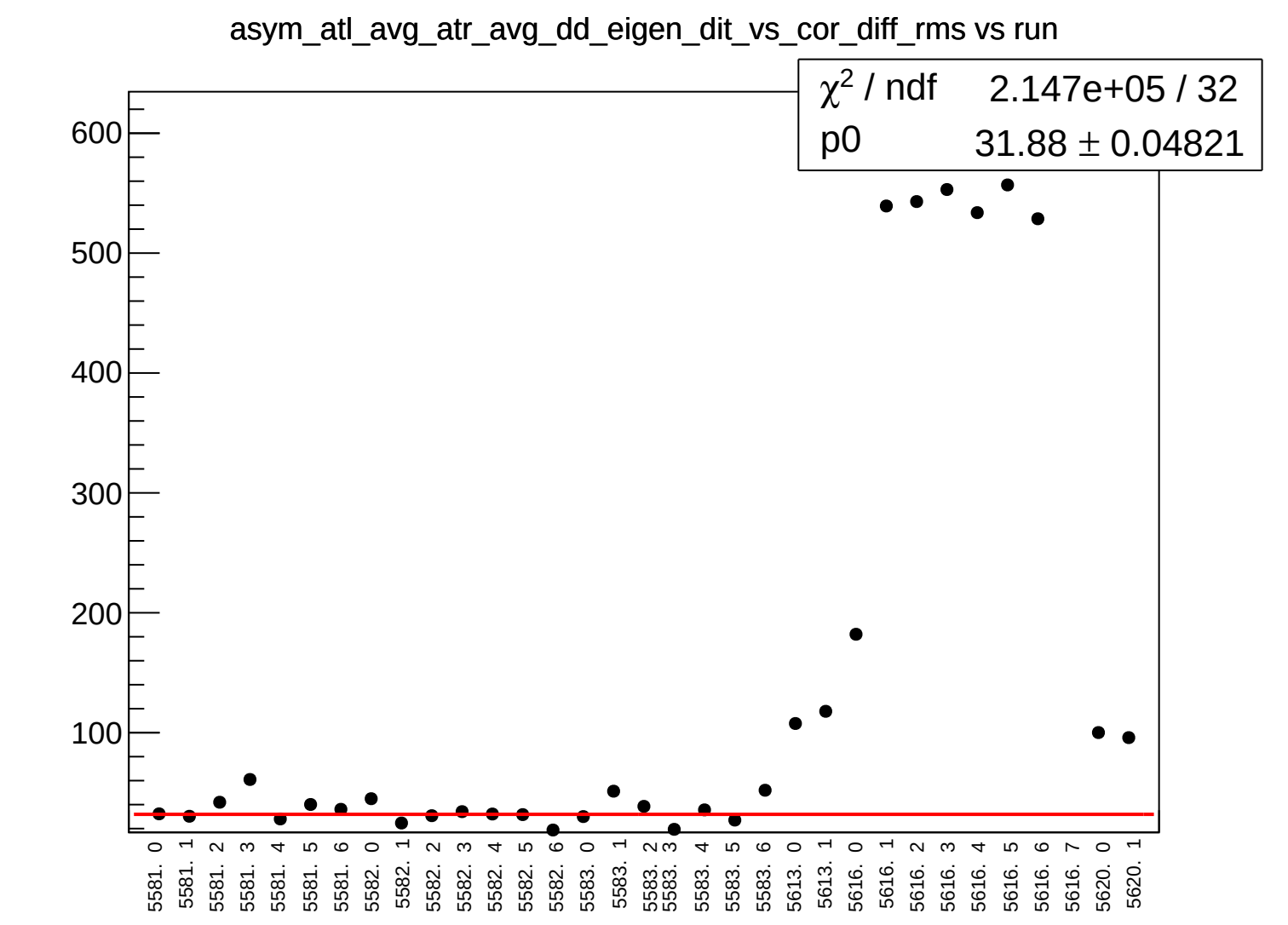

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 34.24 / 32
p0 9.675e−06 ± 9.796e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 93.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

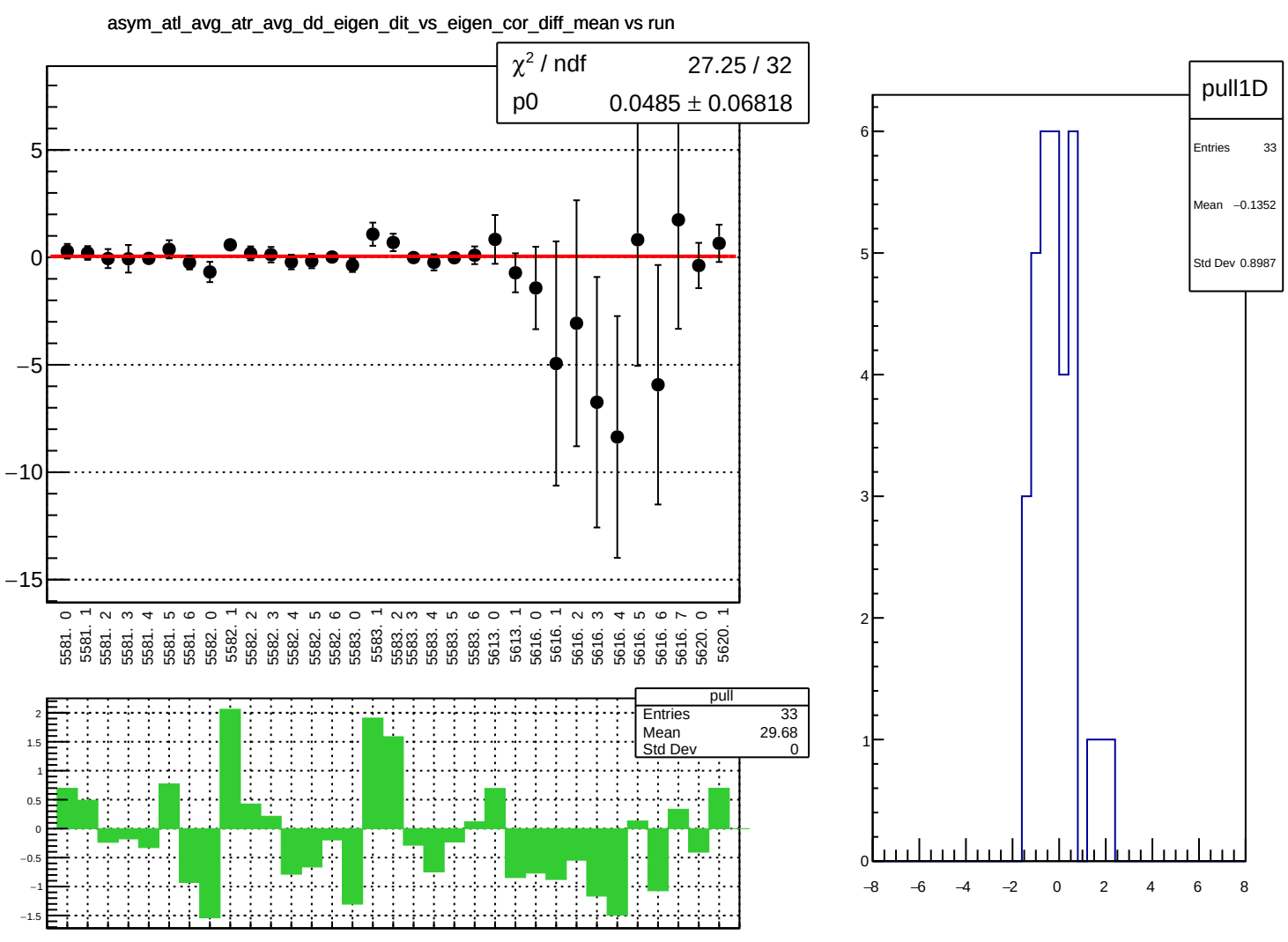

pull1D
Entries 33
Mean −0.02494
Std Dev 1.018
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

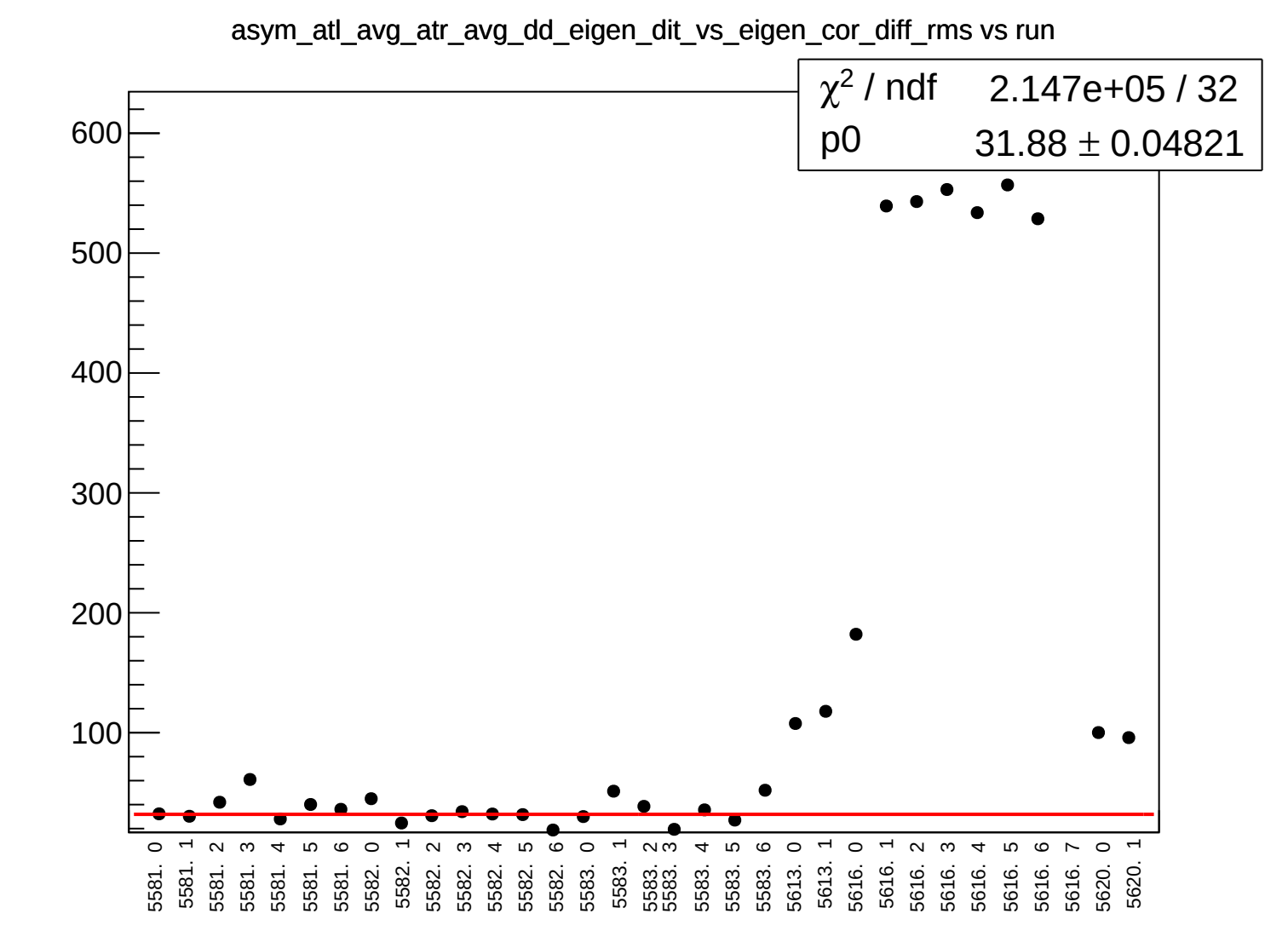

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1034 / 32
p0 0.005589 ± 6.927e−06
0.006
0.0058
0.0056
0.0054
0.0052
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

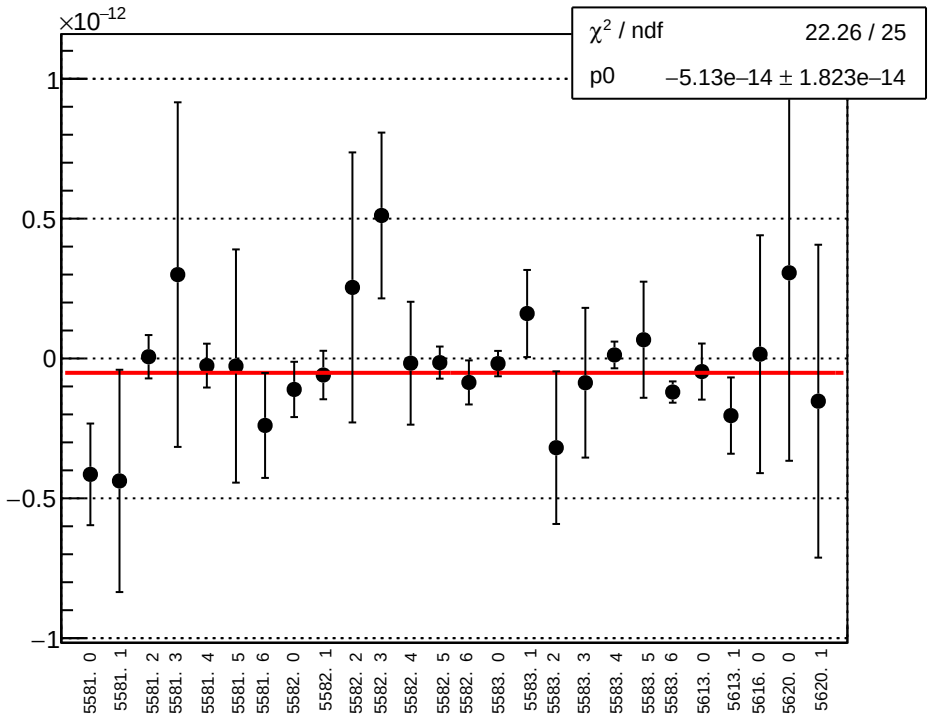

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.25 / 32
p0 0.0485 ± 0.06818
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

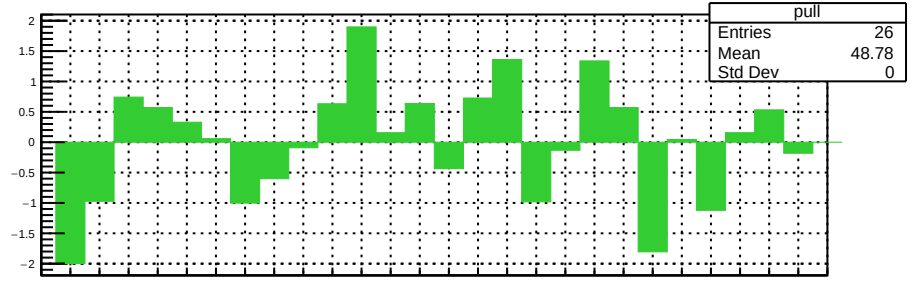

pull1D
Entries 33
Mean −0.1352
Std Dev 0.8987
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

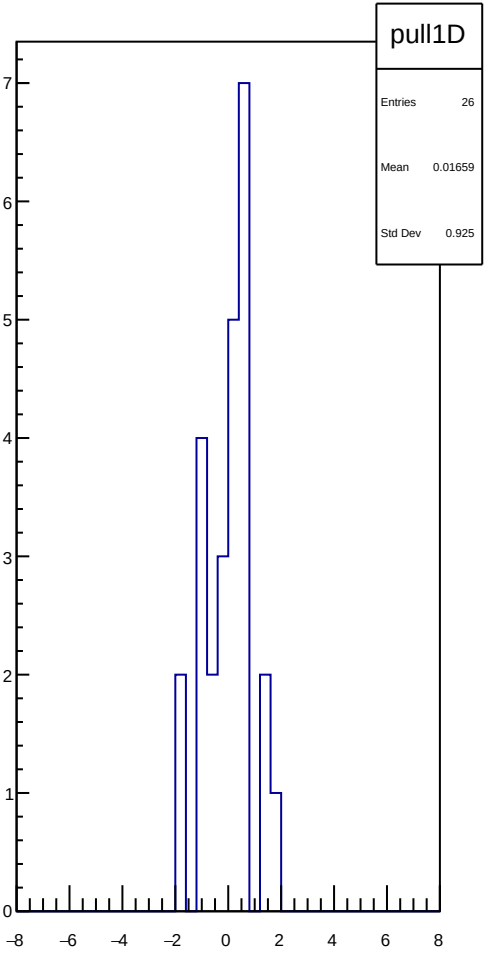

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ2 / ndf 2.147e+05 / 32
p0 31.88 ± 0.04821
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

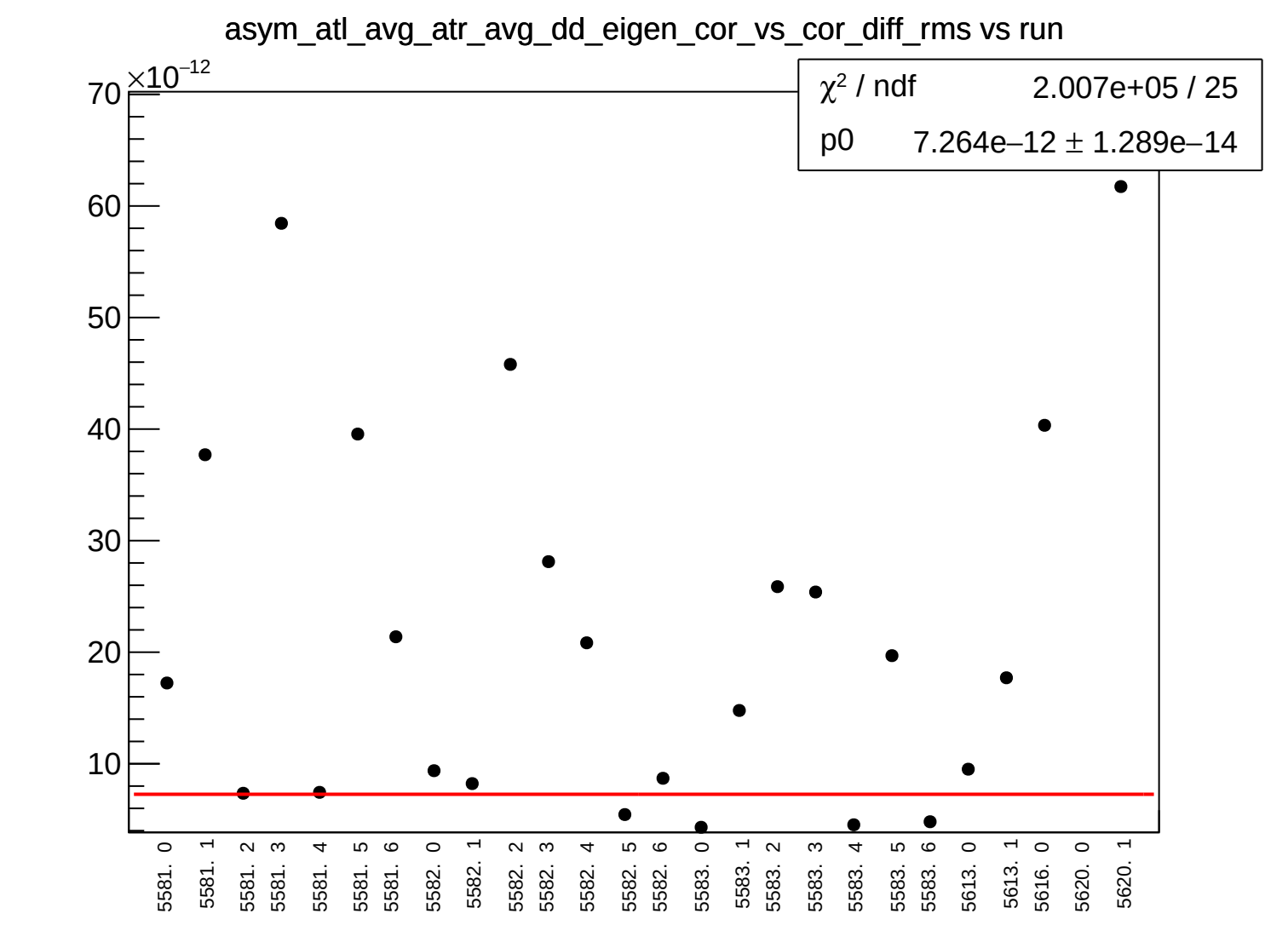

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.25 / 32
p0 0.0485 ± 0.06818
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1352
Std Dev 0.8987
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

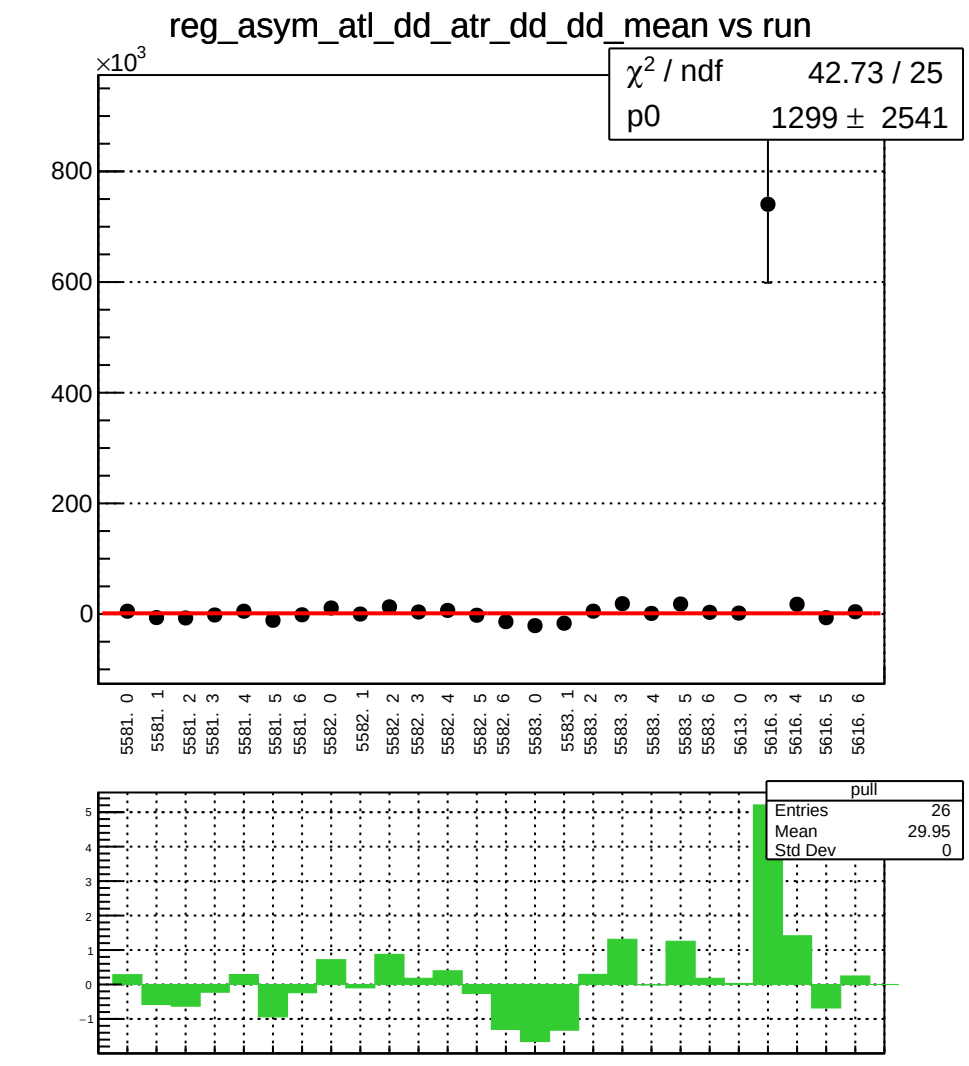

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 2.147e+05 / 32
p0 31.88 ± 0.04821
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

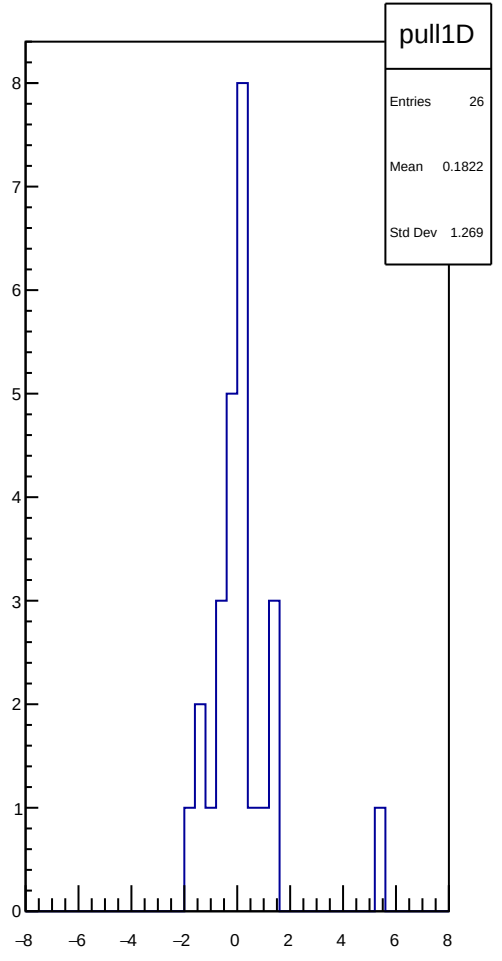

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 22.26 / 25
p0 −5.13e−14 ± 1.823e−14
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

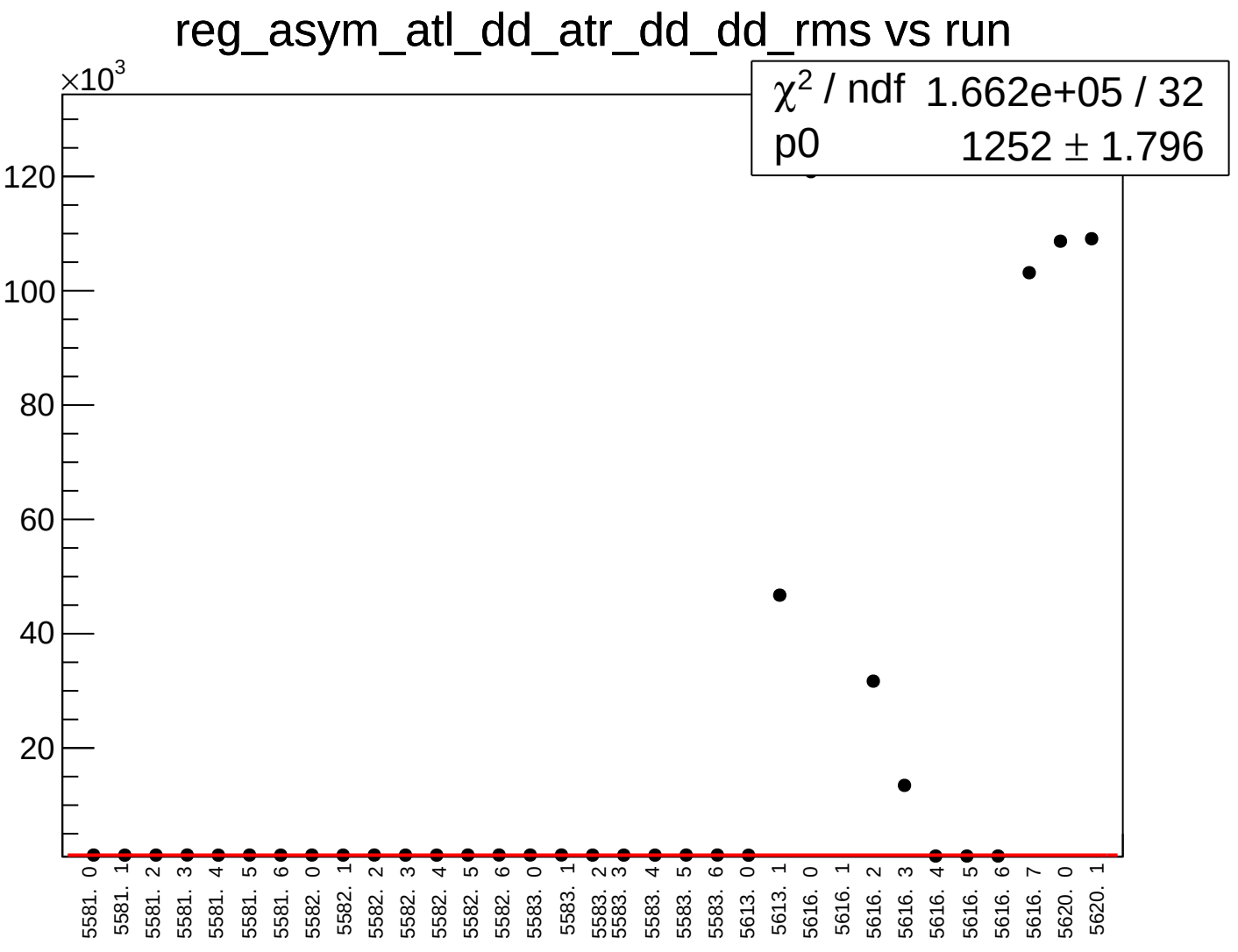

pull
Entries 26
Mean 48.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

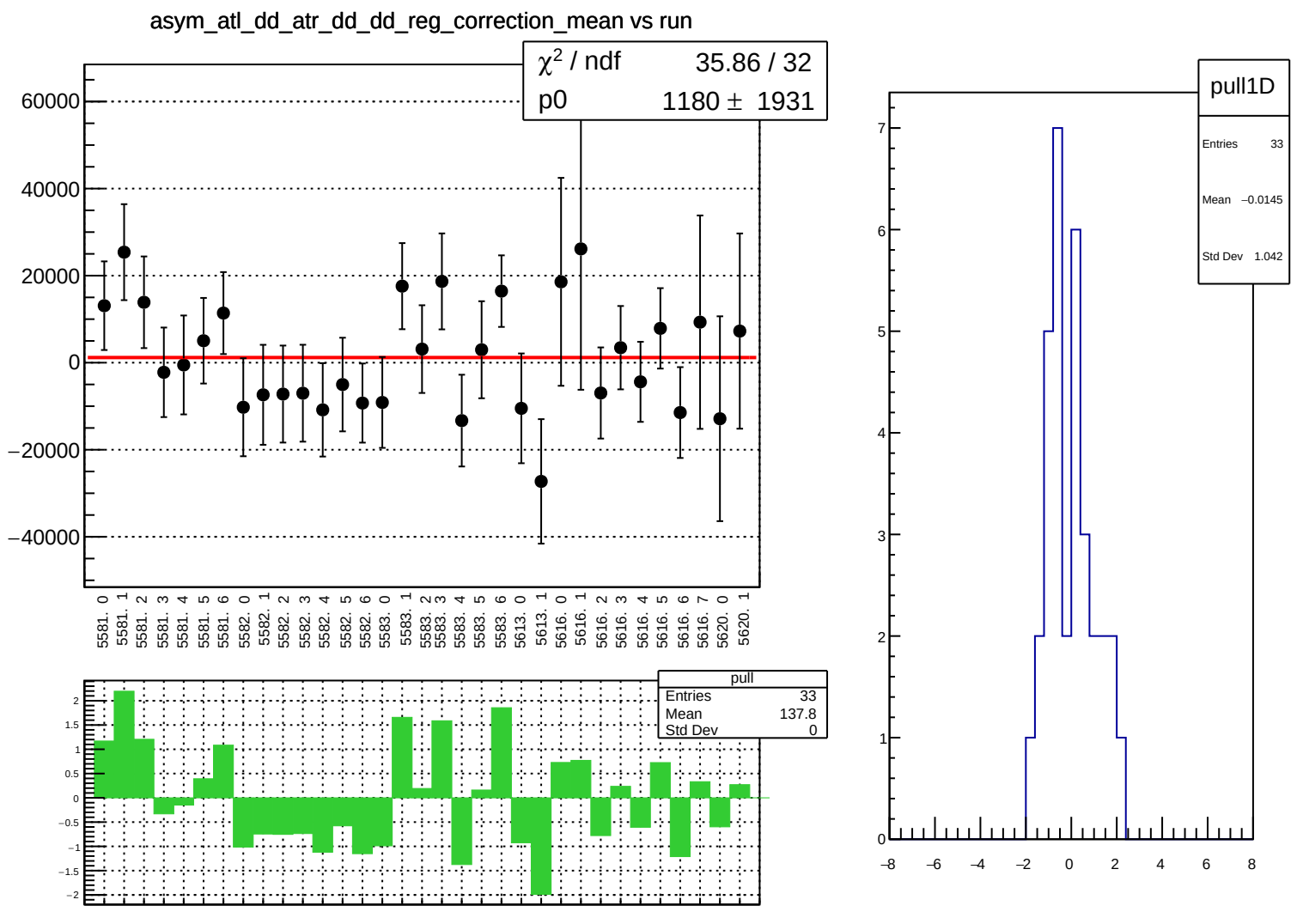

pull1D
Entries 26
Mean 0.01659
Std Dev 0.925
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

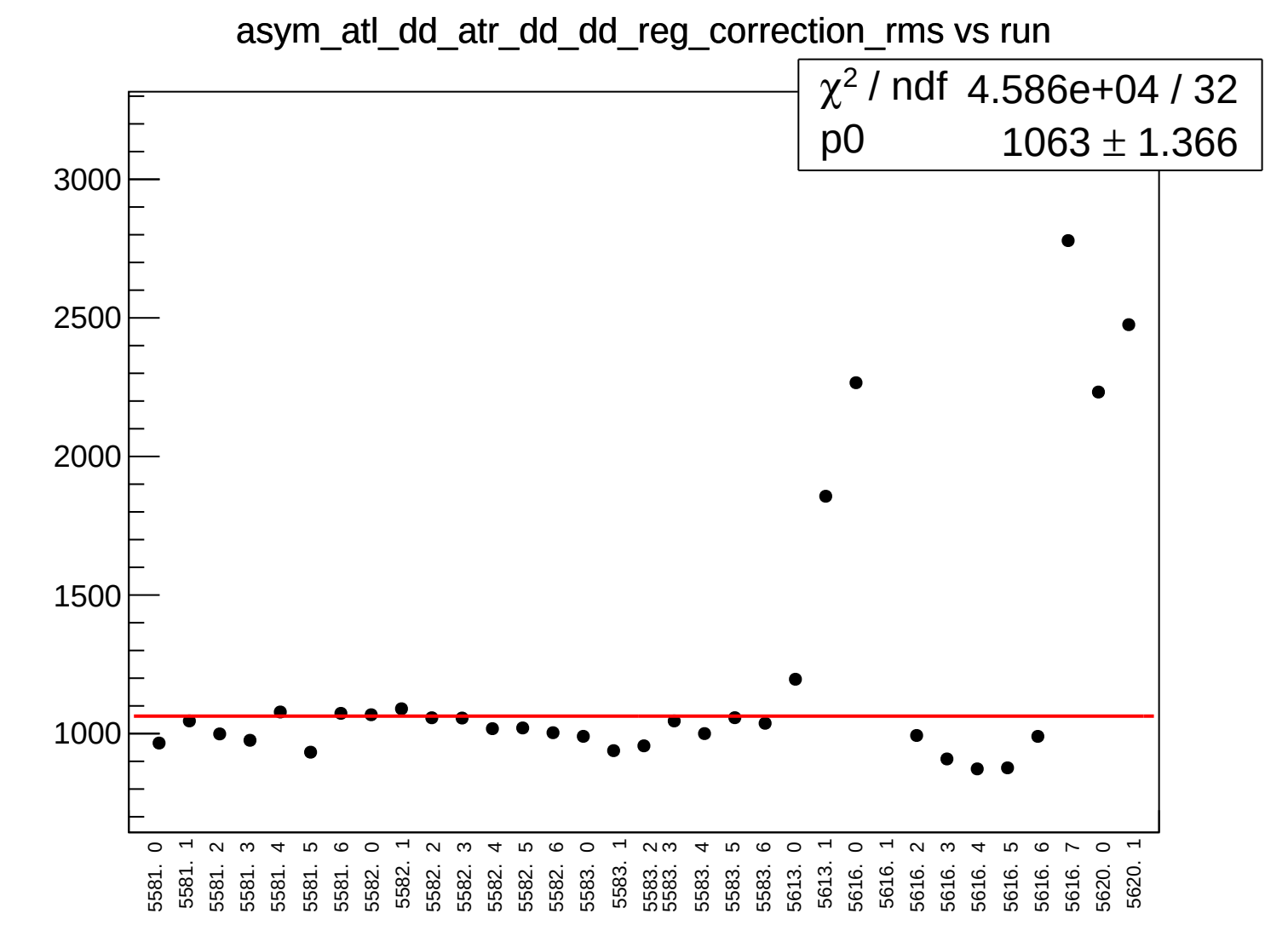

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
70
60
50
40
30
20
10
χ² / ndf 2.007e+05 / 25
p0 7.264e−12 ± 1.289e−14
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

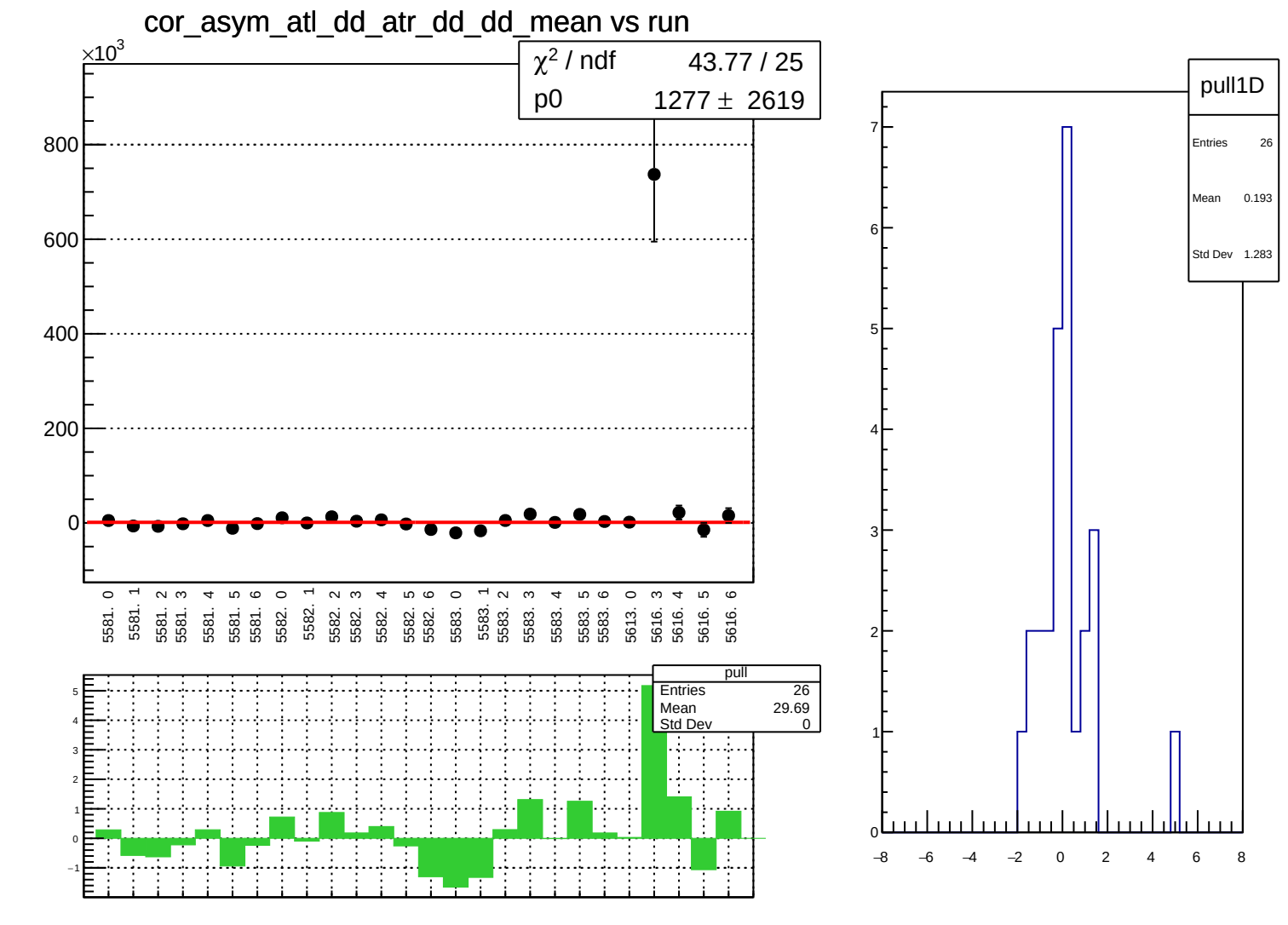

reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ^2 / ndf 42.73 / 25
p0 1299 ± 2541
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 29.95
Std Dev 0
5
4
3
2
1
0
−1

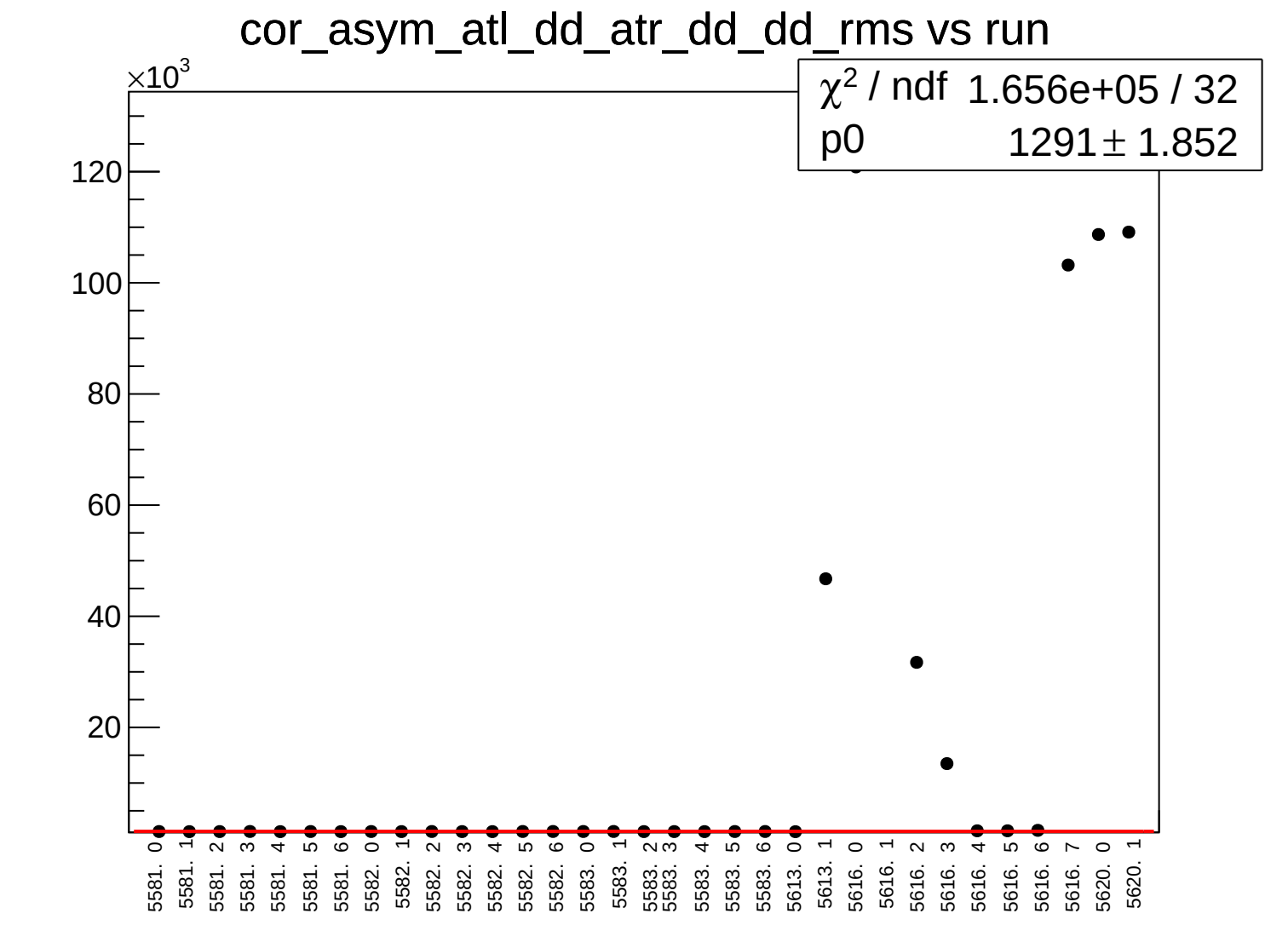

pull1D
Entries 26
Mean 0.1822
Std Dev 1.269
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

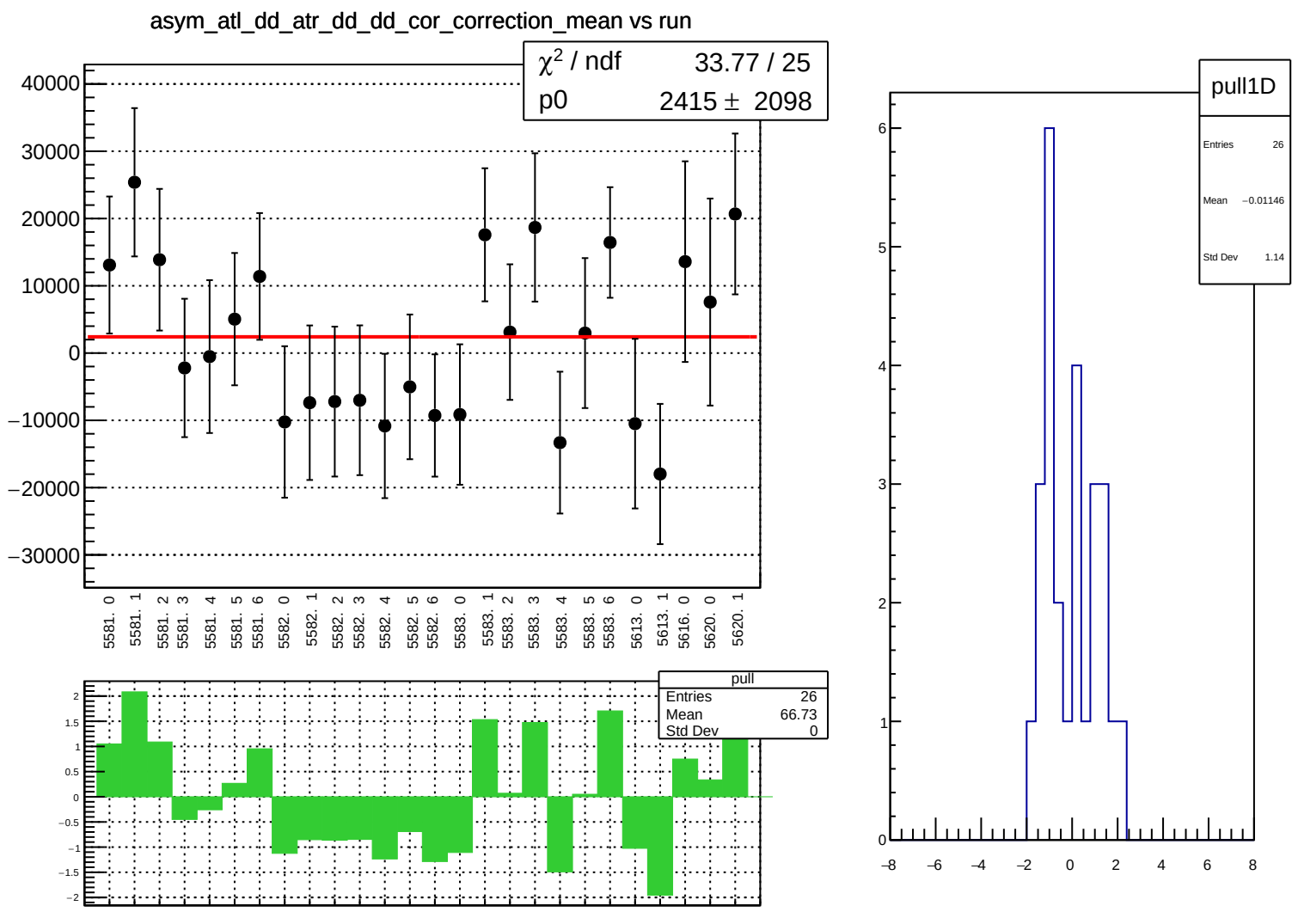

reg_asym_atl_dd_atr_dd_dd_rms vs run
×10^3
χ² / ndf 1.662e+05 / 32
p0 1252 ± 1.796
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

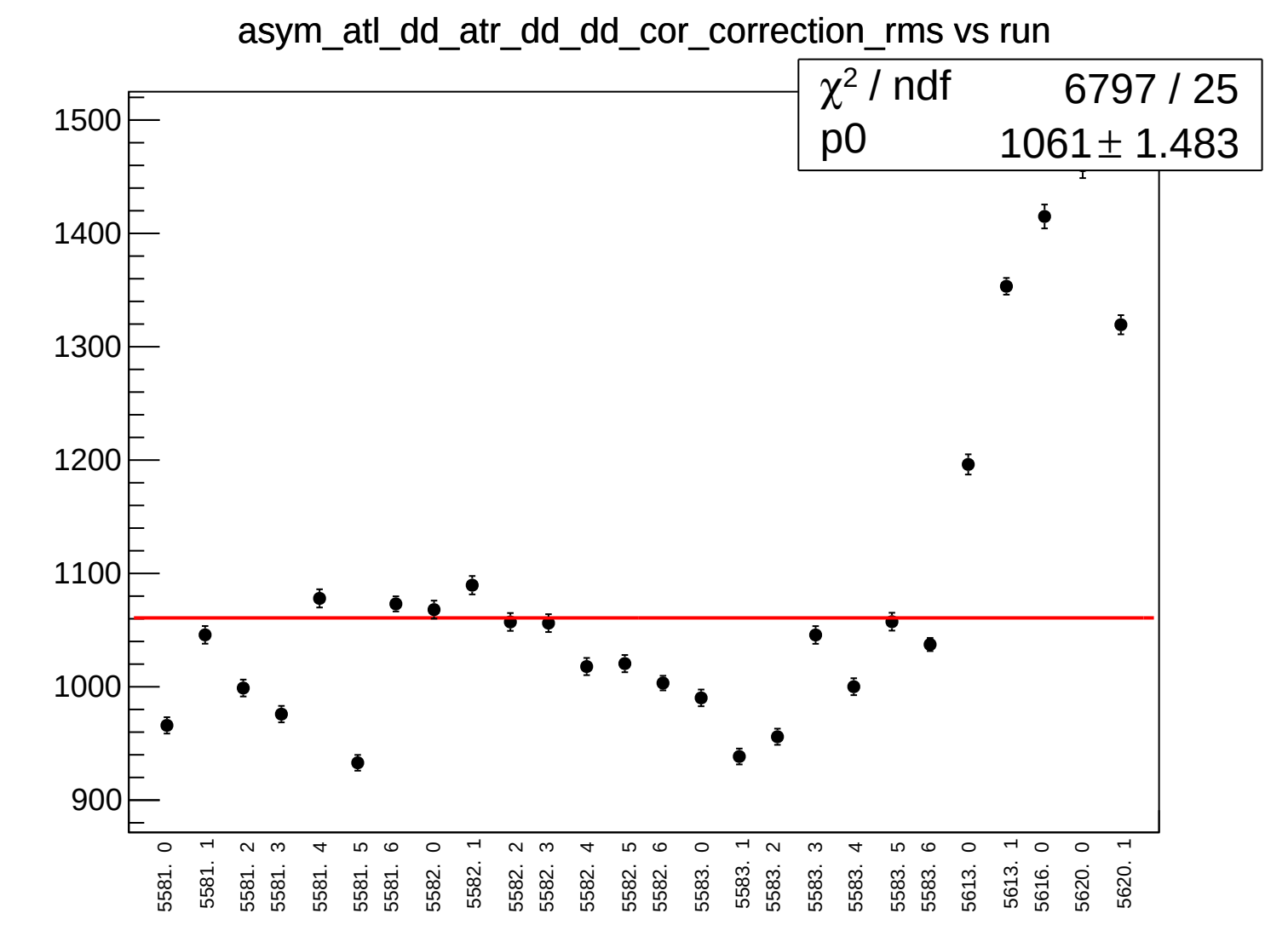

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 35.86 / 32
p0 1180 ± 1931
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 137.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.0145
Std Dev 1.042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

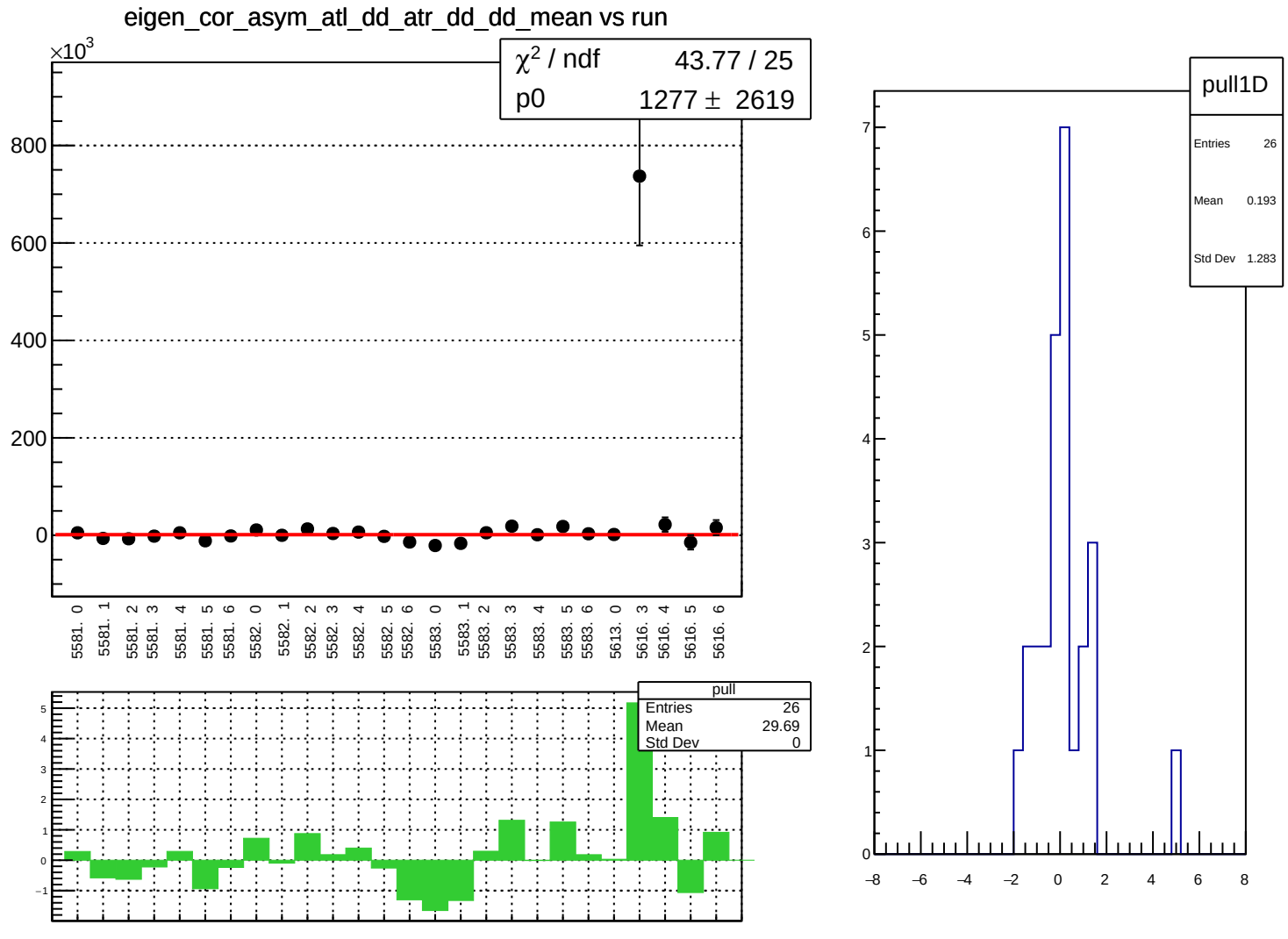

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 4.586e+04 / 32
p0 1063 ± 1.366
3000
2500
2000
1500
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

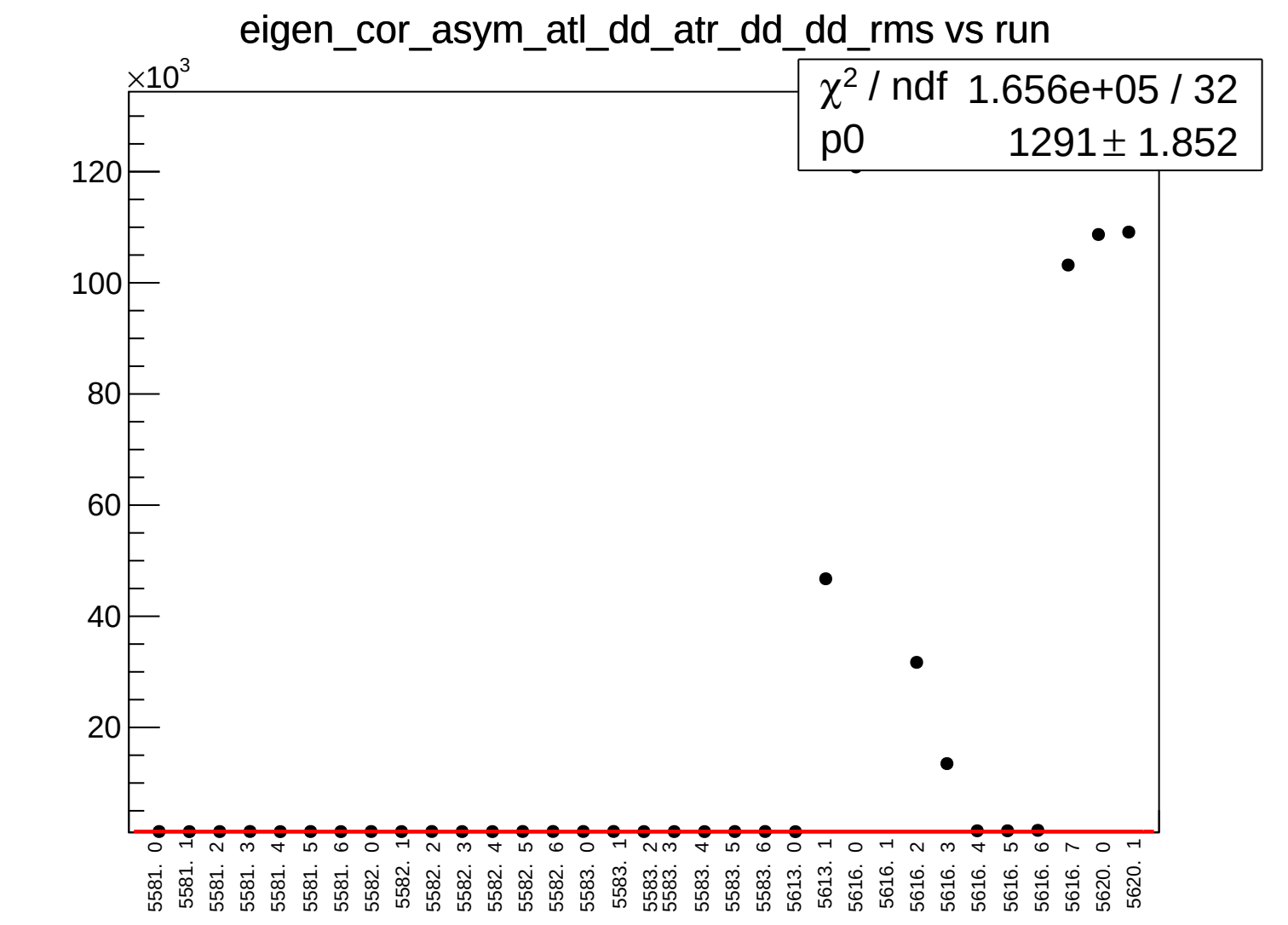

cor_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ^2 / ndf 43.77 / 25
p0 1277 ± 2619
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 29.69
Std Dev 0
pull1D
Entries 26
Mean 0.193
Std Dev 1.283

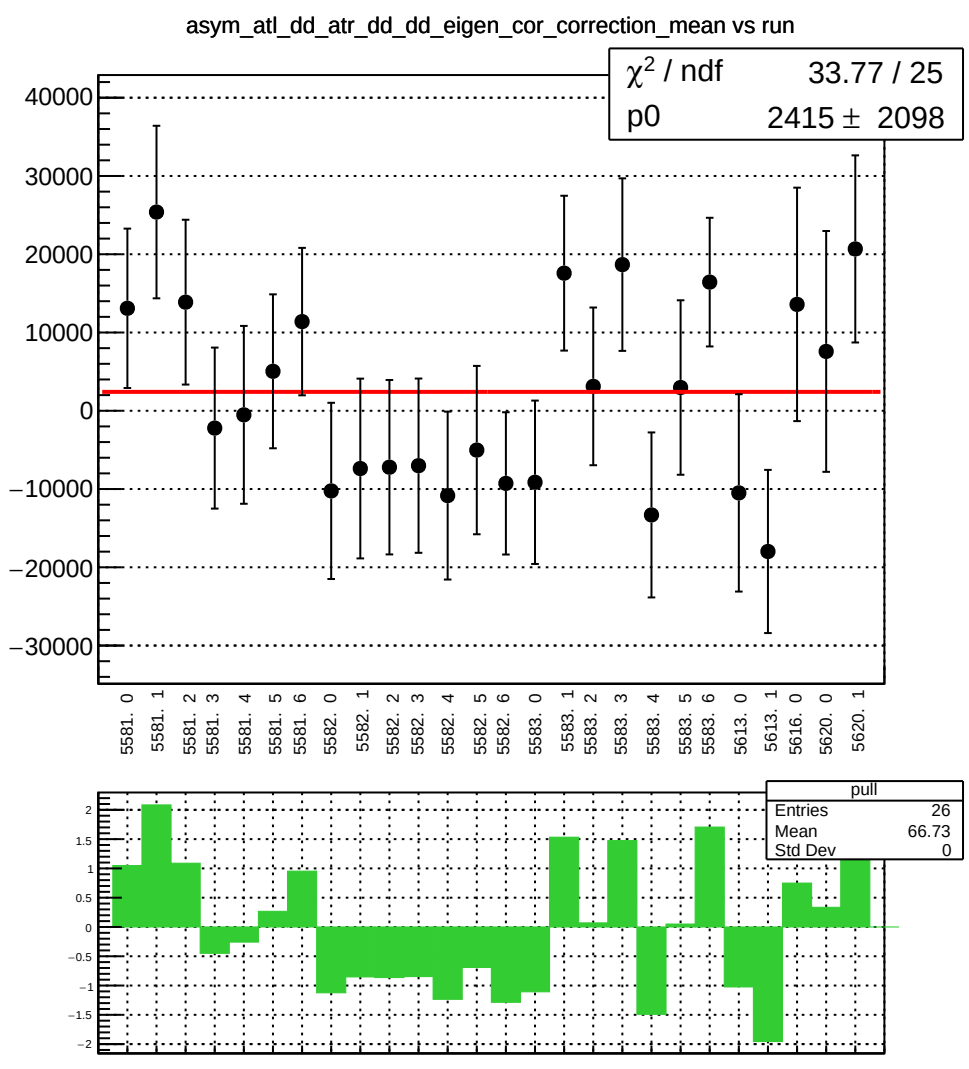

cor_asym_atl_dd_atr_dd_dd_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 1.656e+05 / 32
p0 1291 ± 1.852
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

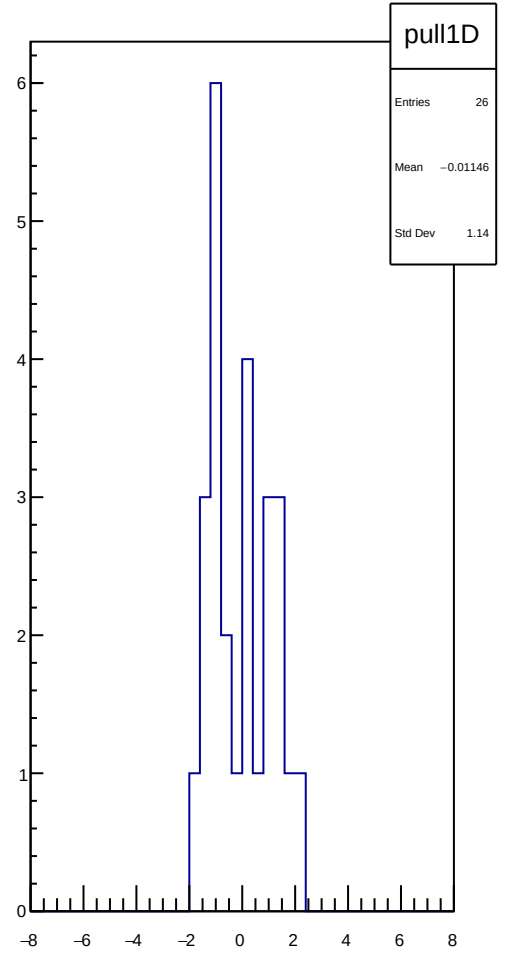

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 33.77 / 25
p0 2415 ± 2098
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 66.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.01146
Std Dev 1.14
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

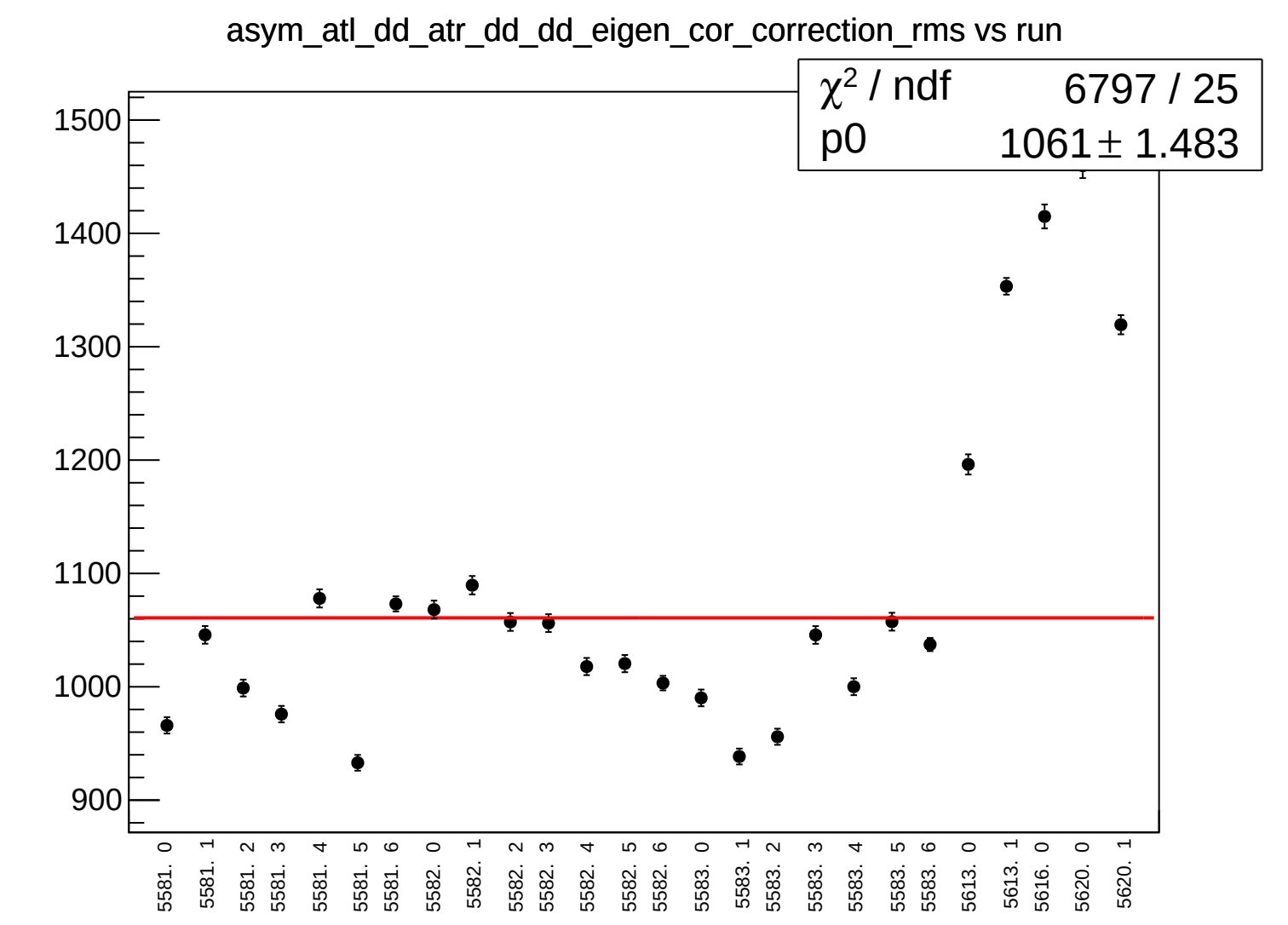

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 6797 / 25
p0 1061 ± 1.483
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

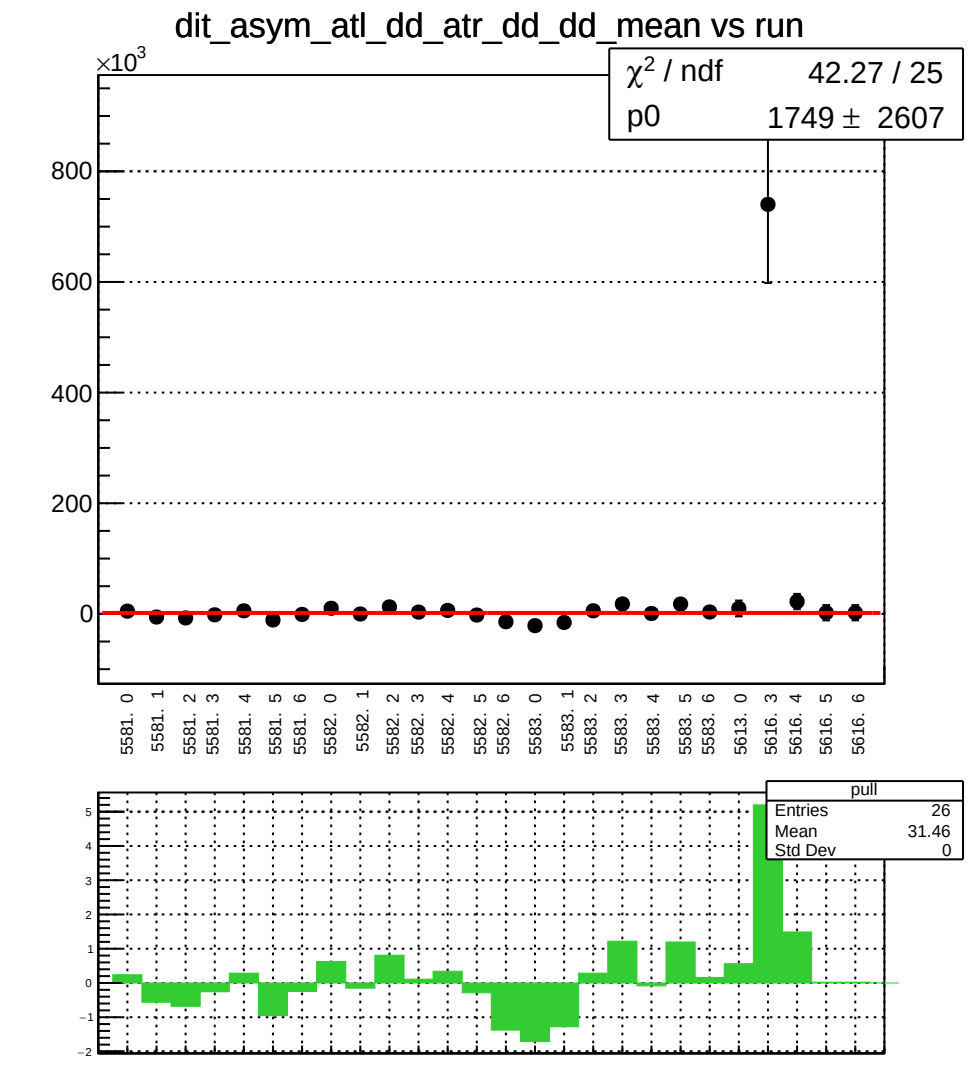

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ^2 / ndf 43.77 / 25
p0 1277 ± 2619
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 29.69
Std Dev 0
pull1D
Entries 26
Mean 0.193
Std Dev 1.283

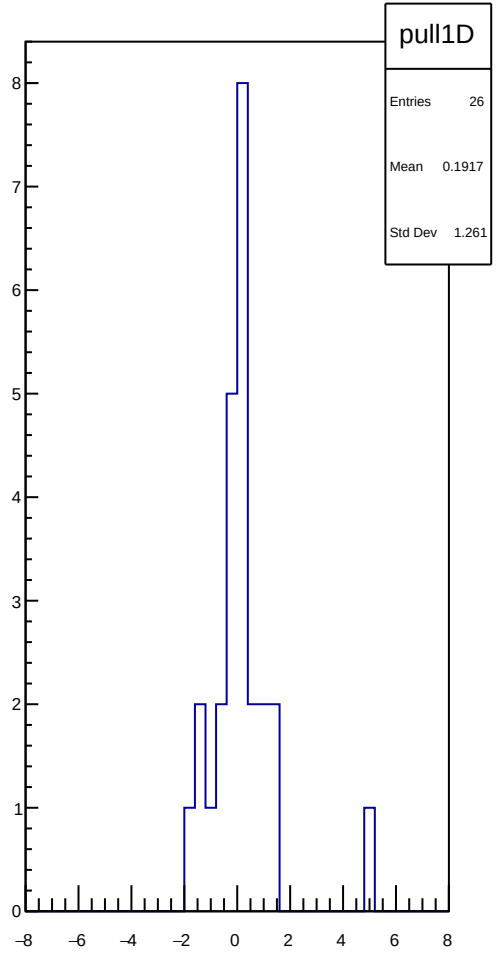

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
×10^3
χ^2 / ndf 1.656e+05 / 32
p0 1291 ± 1.852
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

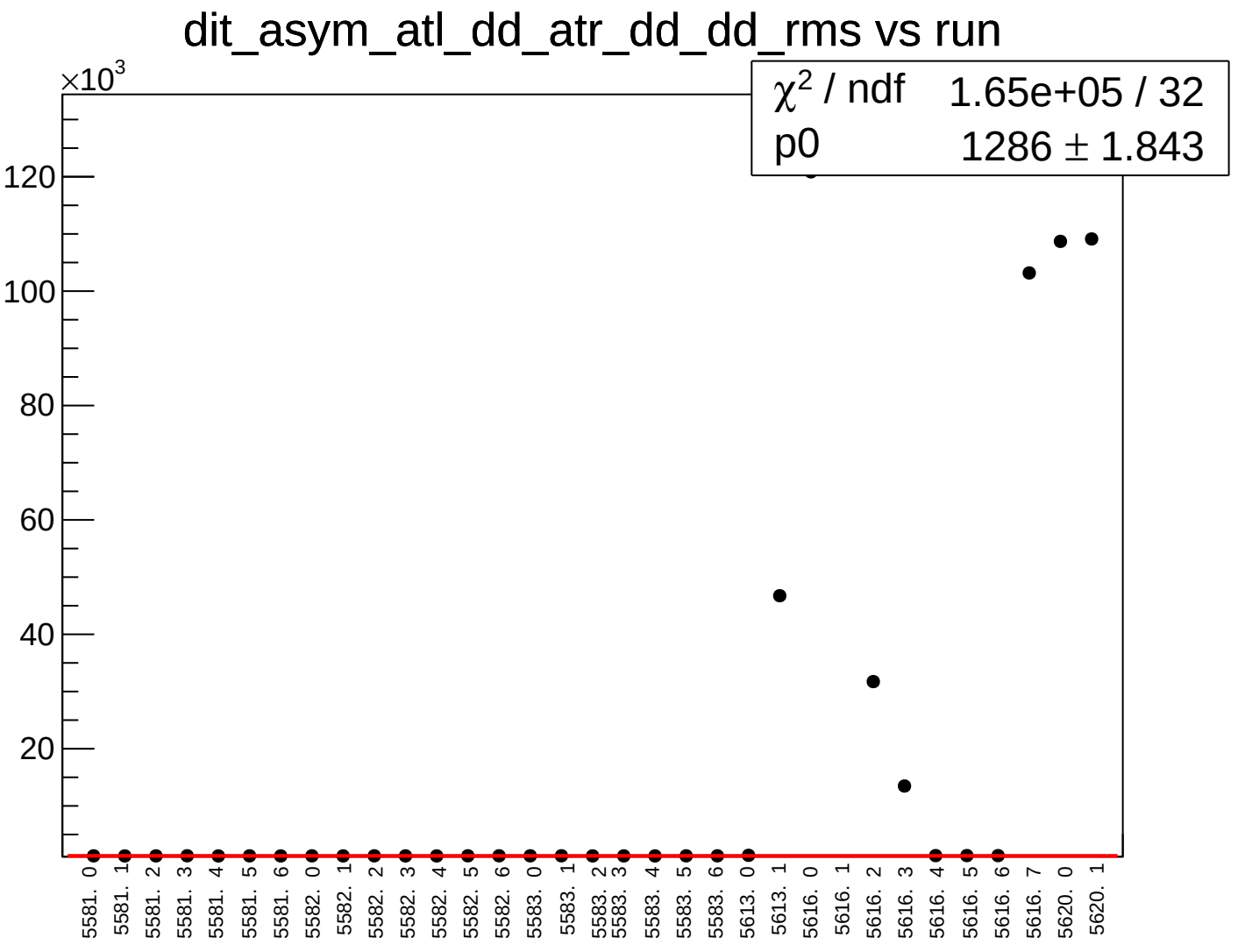

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 33.77 / 25
p0 2415 ± 2098
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 66.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

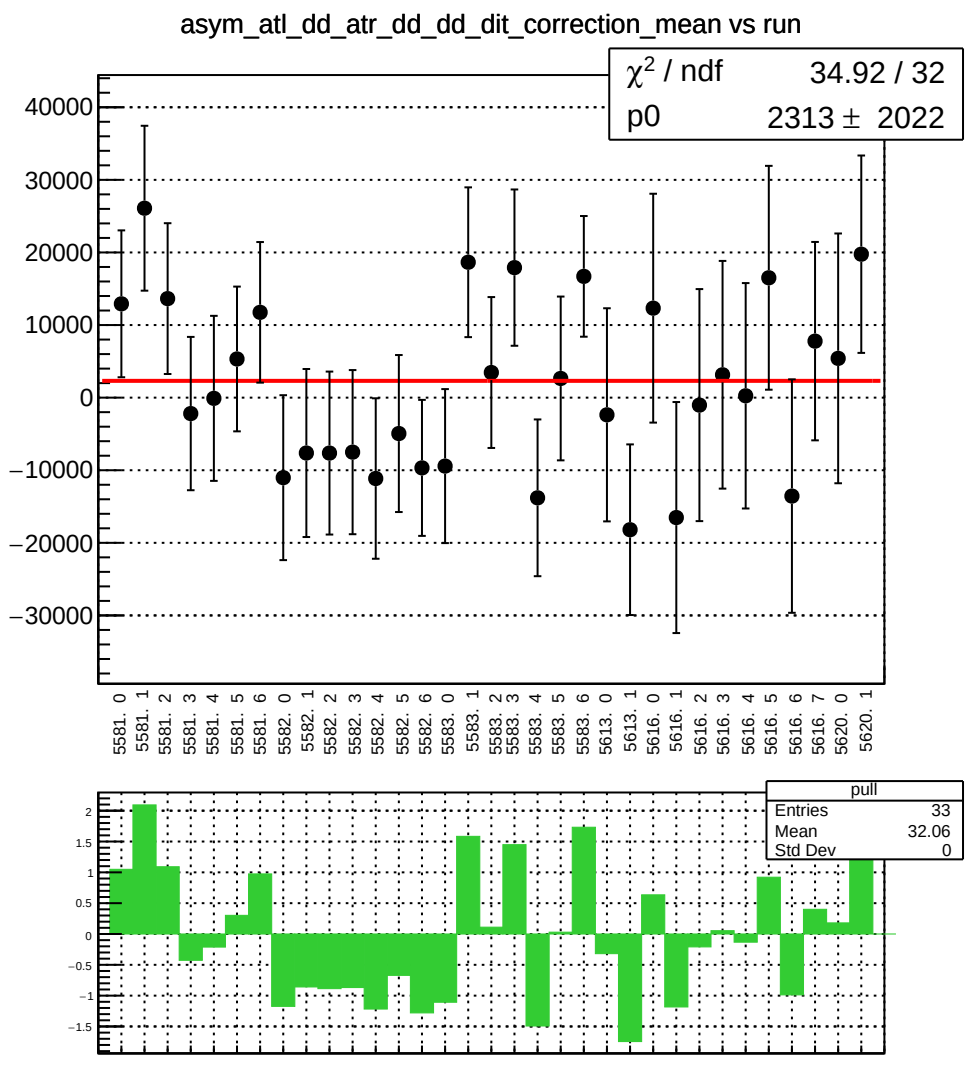

pull1D
Entries 26
Mean −0.01146
Std Dev 1.14
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

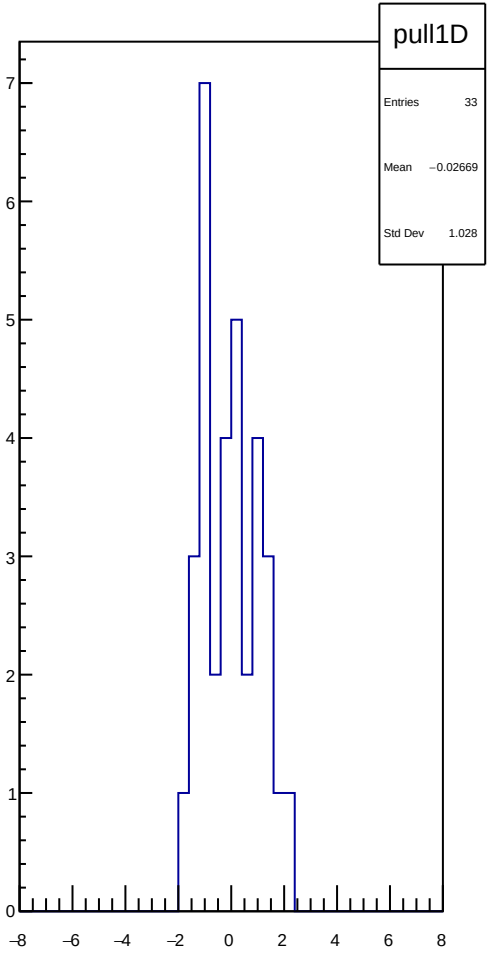

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6797 / 25
p0 1061 ± 1.483
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

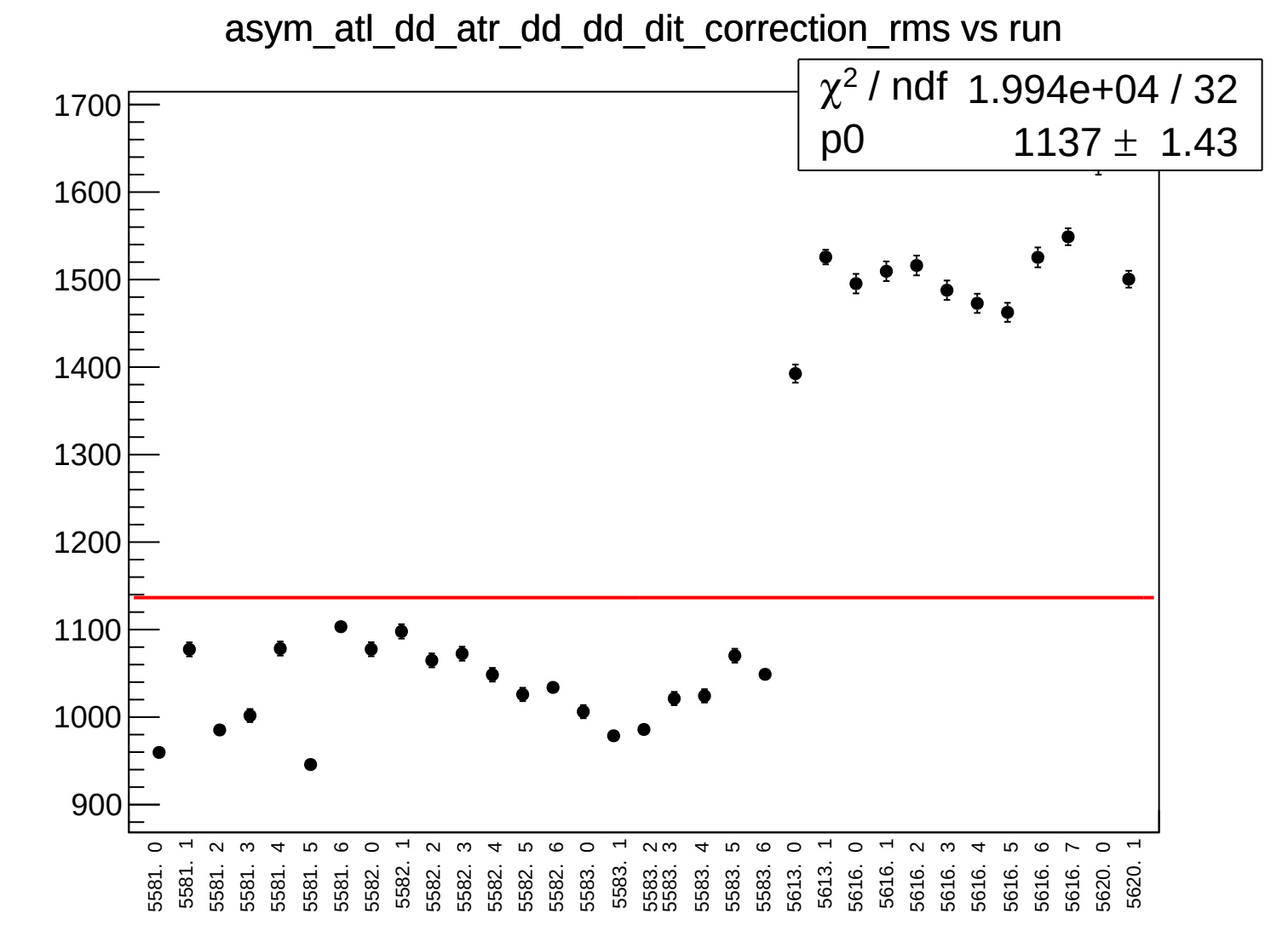

dit_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 42.27 / 25
p0 1749 ± 2607
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 31.46
Std Dev 0
5
4
3
2
1
0
−1
−2

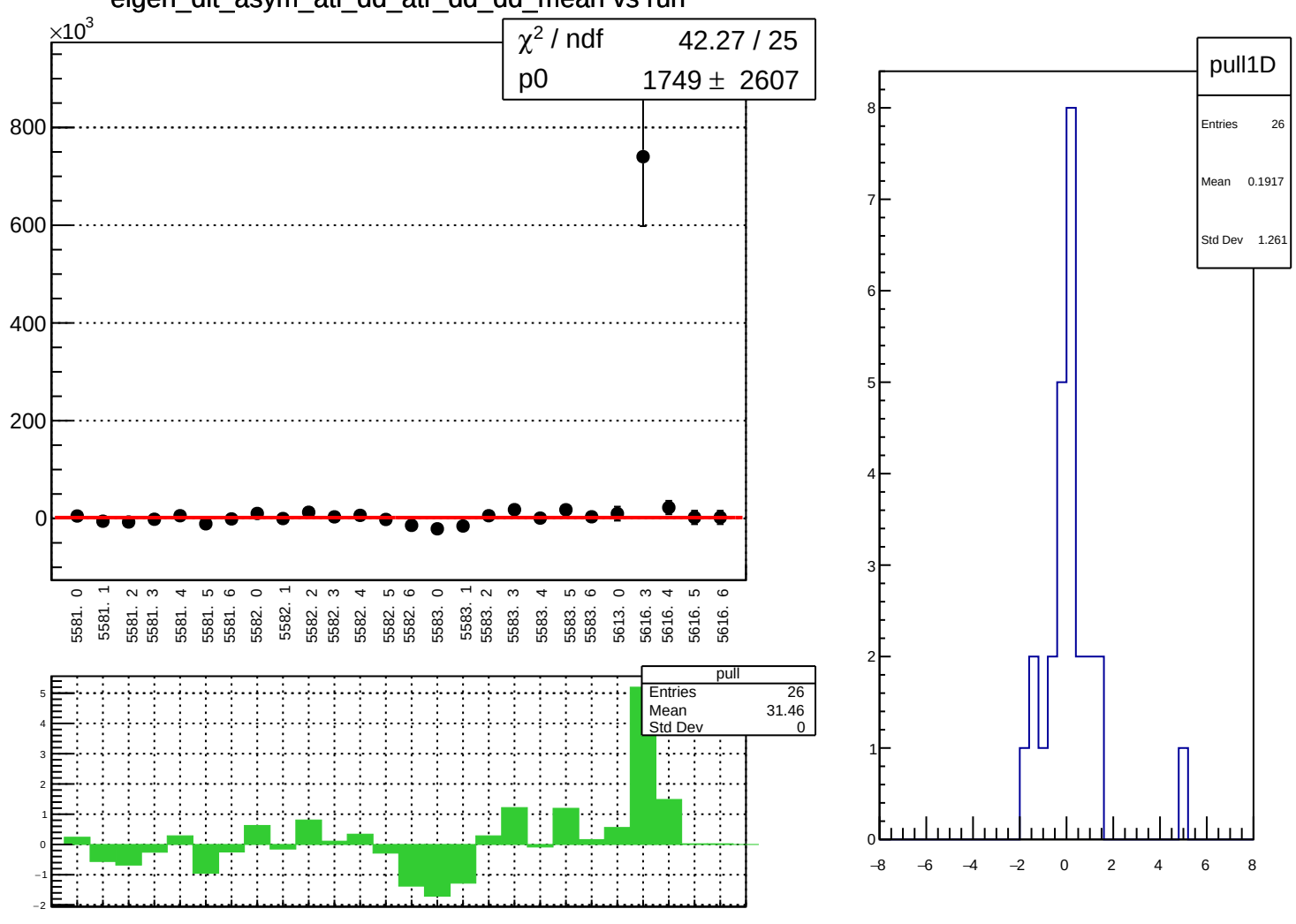

pull1D
Entries 26
Mean 0.1917
Std Dev 1.261
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

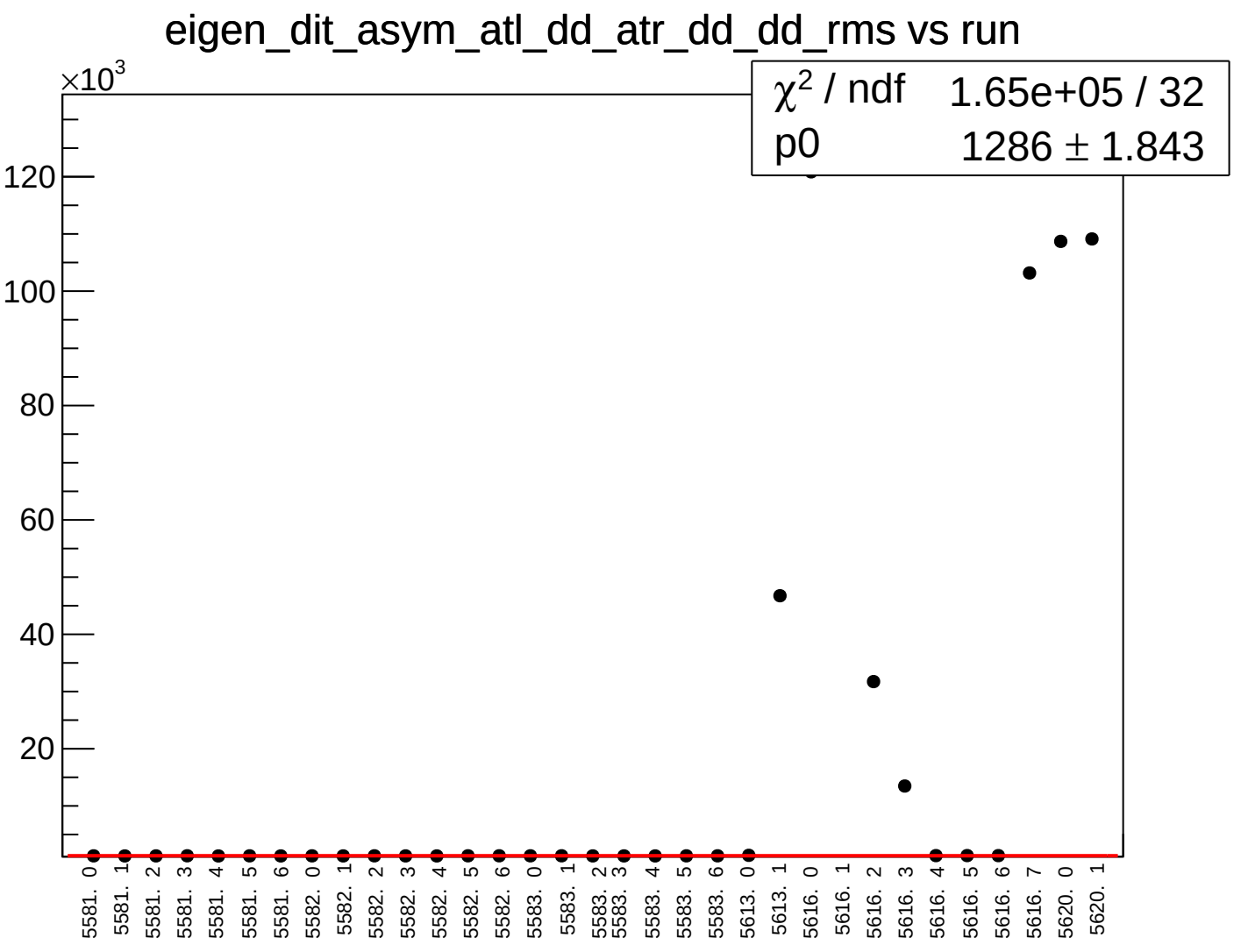

dit_asym_atl_dd_atr_dd_dd_rms vs run
×10^3
χ² / ndf 1.65e+05 / 32
p0 1286 ± 1.843
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

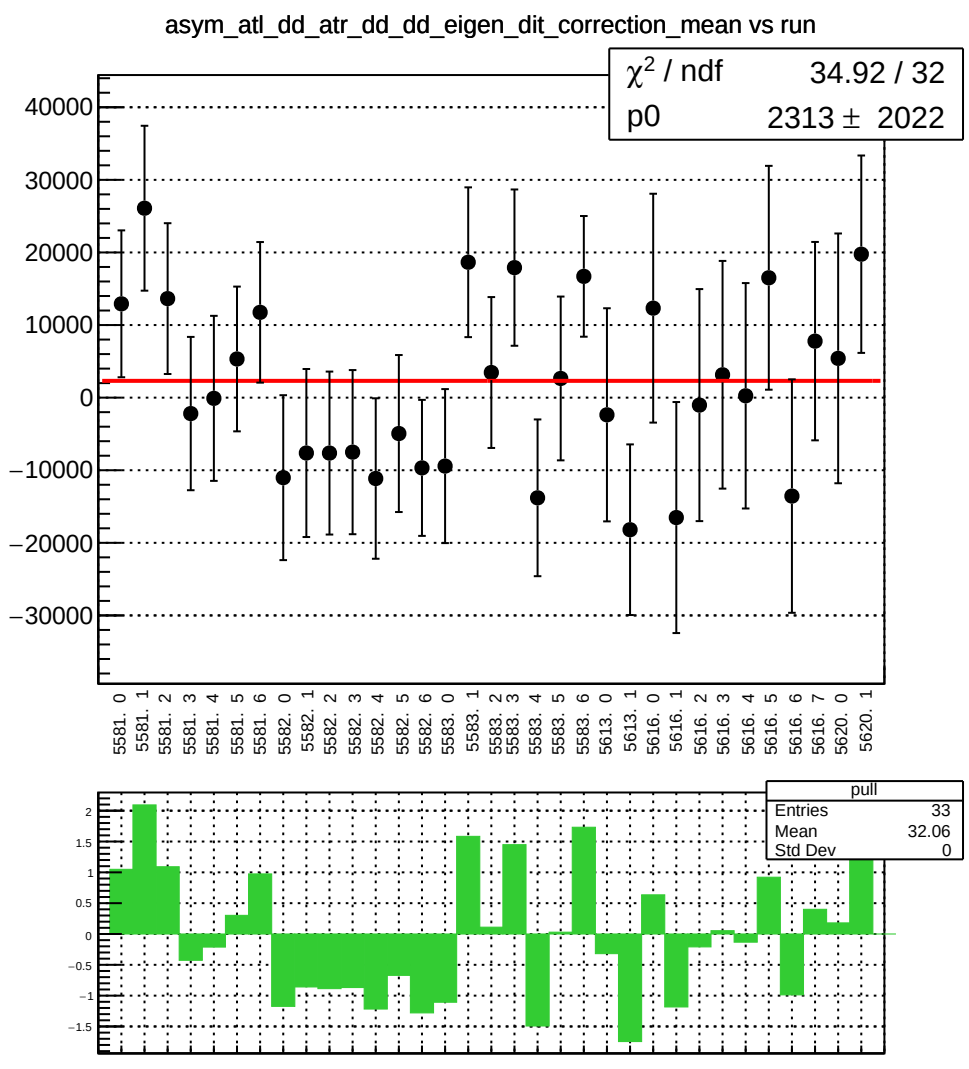

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 34.92 / 32
p0 2313 ± 2022
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 32.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

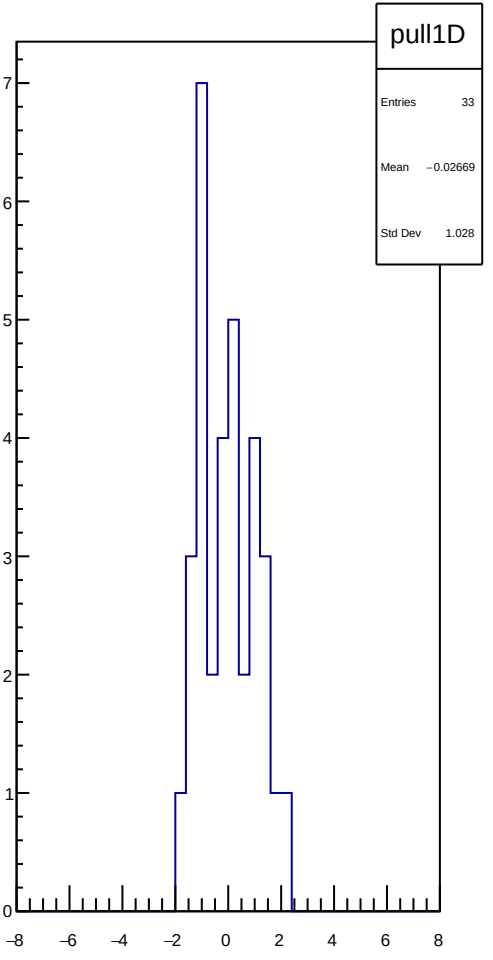

pull1D
Entries 33
Mean −0.02669
Std Dev 1.028
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

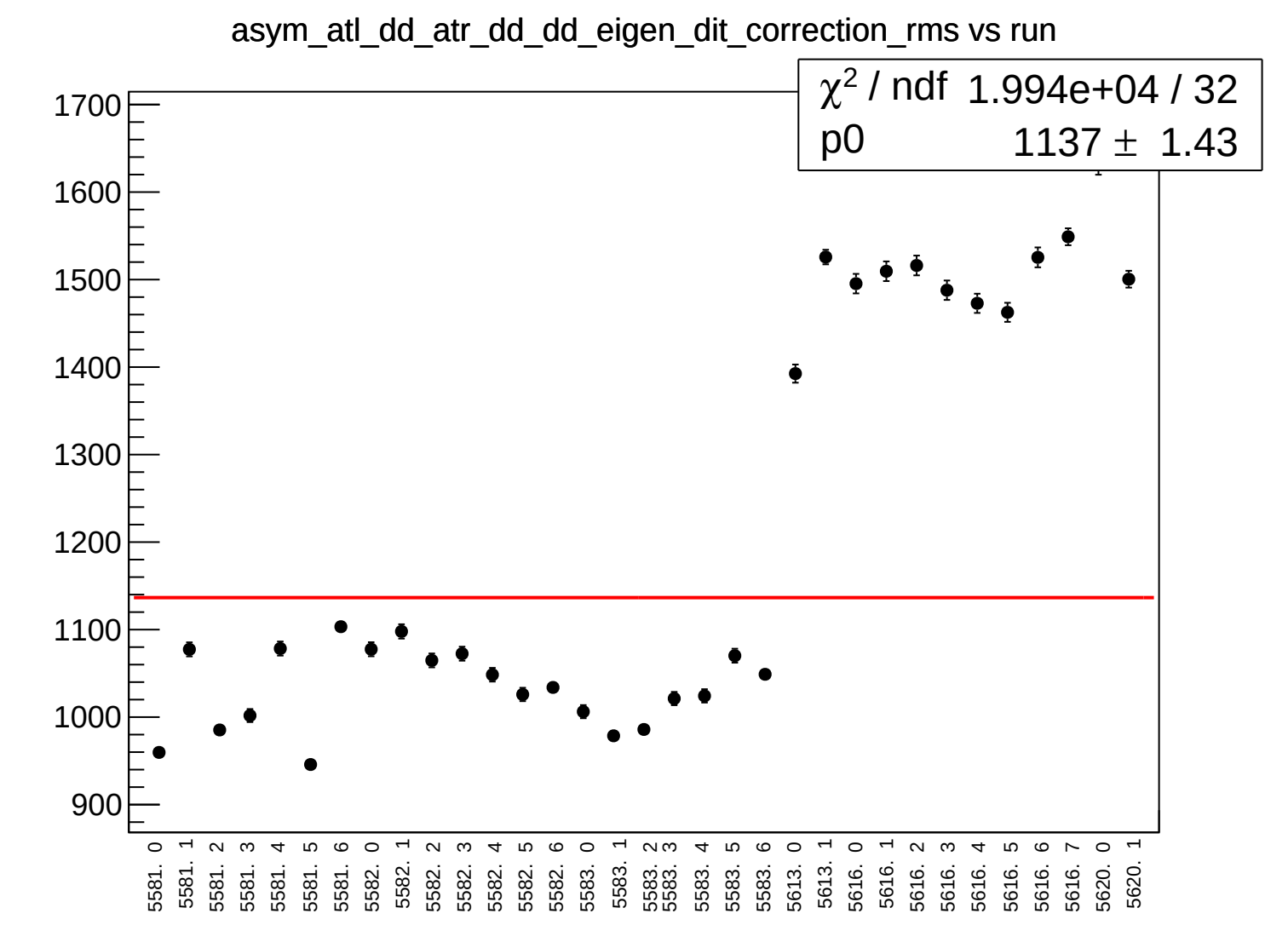

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.994e+04 / 32
p0 1137 ± 1.43
1700
1600
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

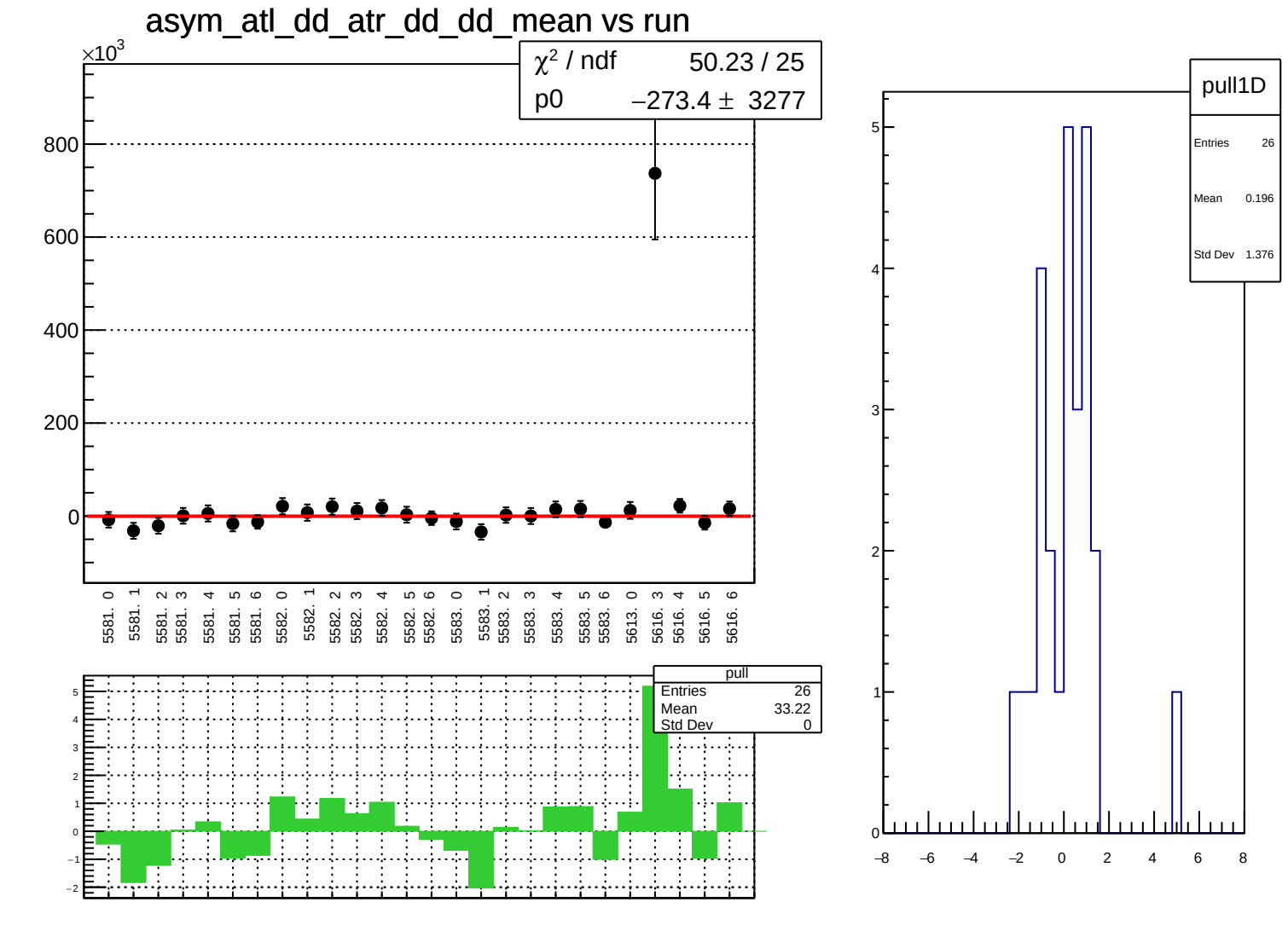

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ^2 / ndf 42.27 / 25
p0 1749 ± 2607
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 31.46
Std Dev 0
5
4
3
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.1917
Std Dev 1.261
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

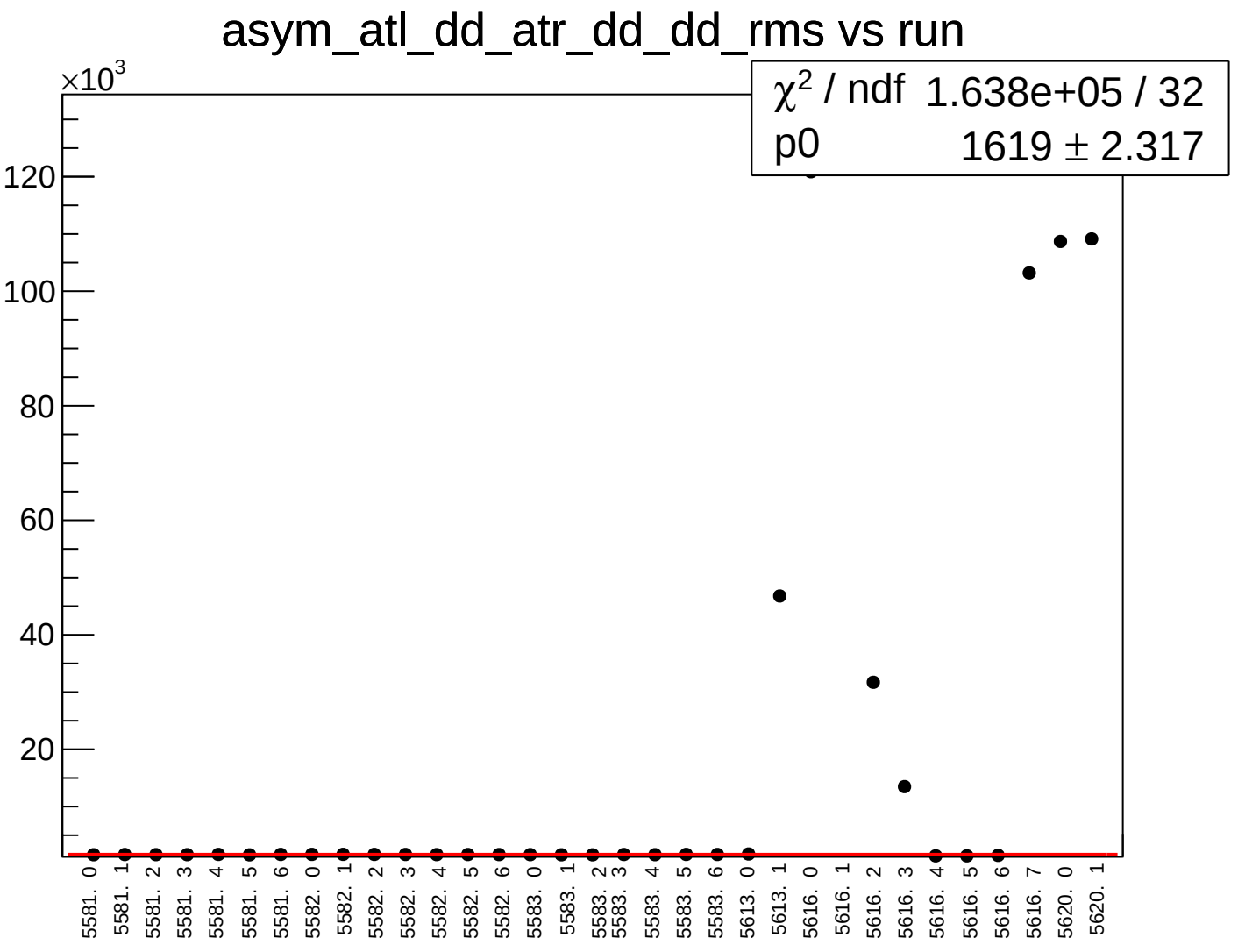

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
×10^3
χ^2 / ndf 1.65e+05 / 32
p0 1286 ± 1.843
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

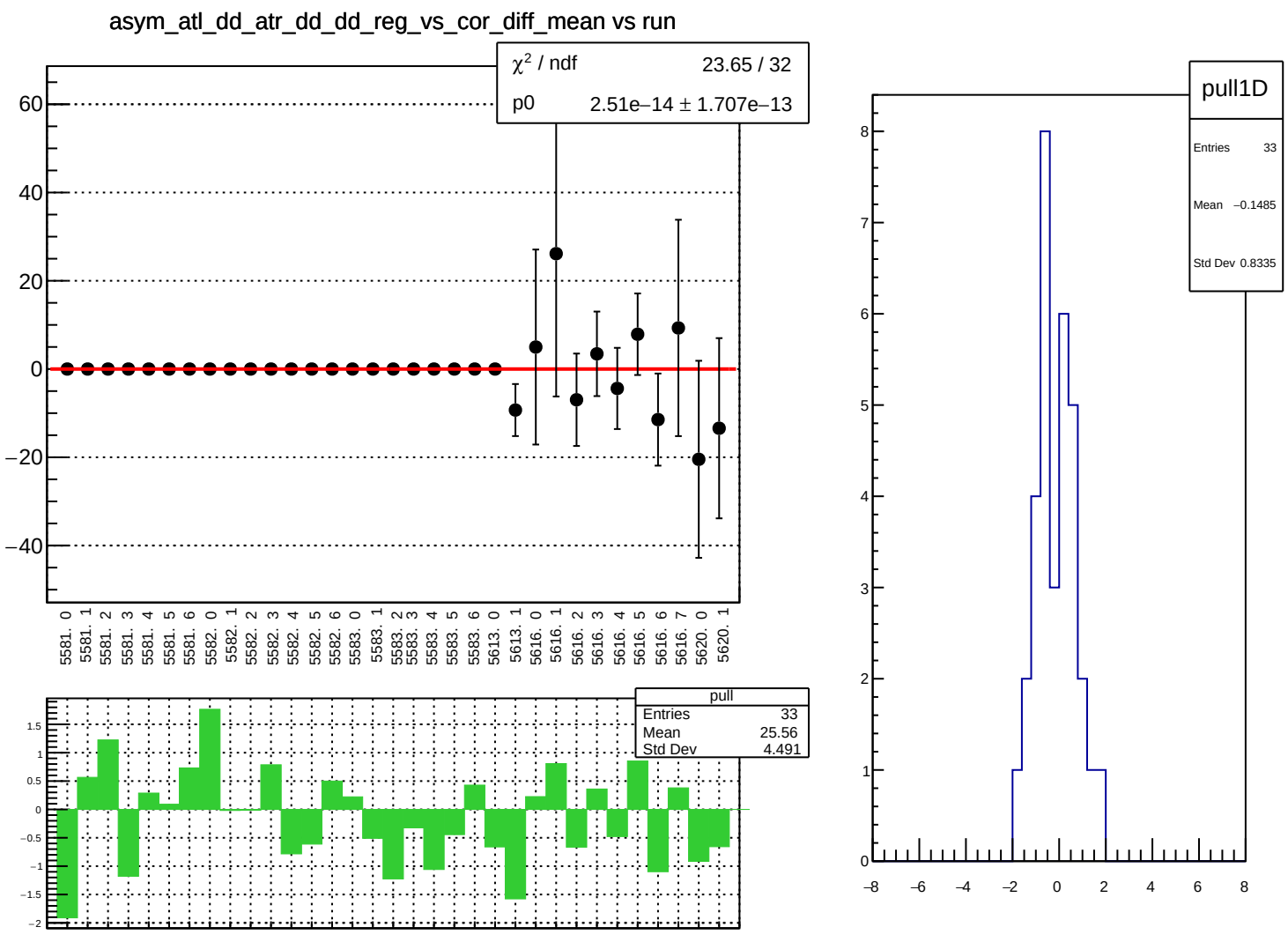

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 34.92 / 32
p0 2313 ± 2022
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 32.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

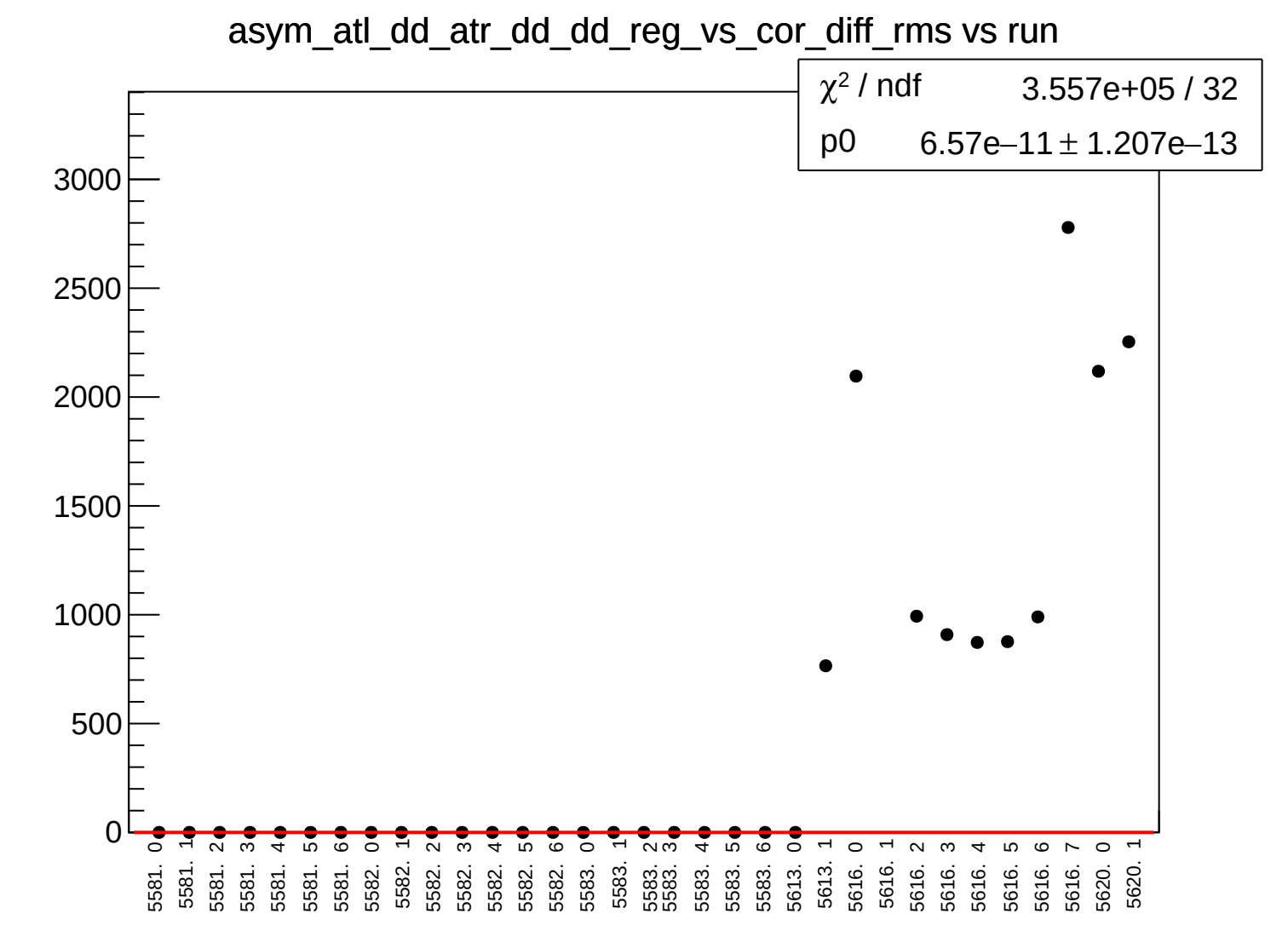

pull1D
Entries 33
Mean −0.02669
Std Dev 1.028
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

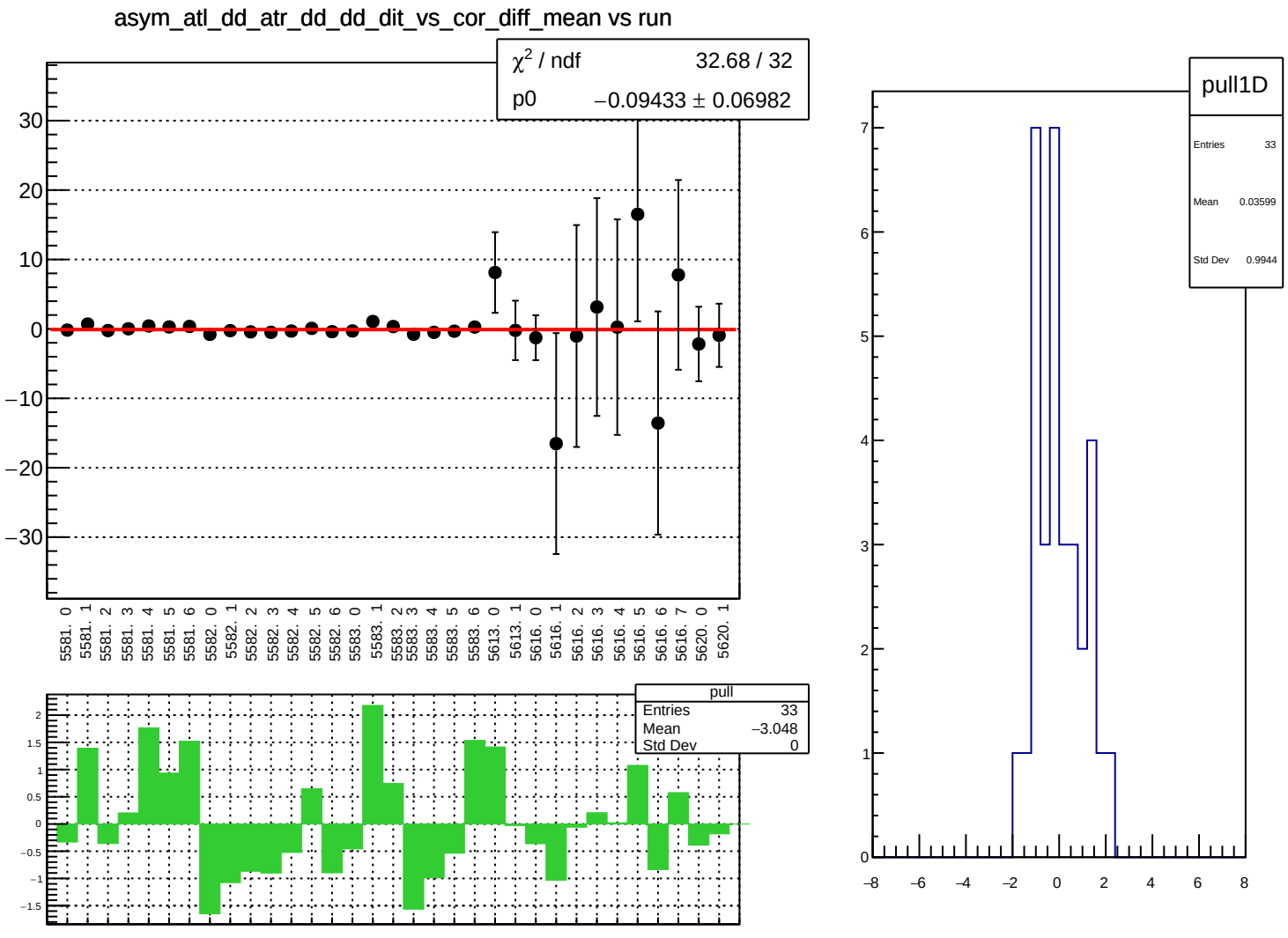

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.994e+04 / 32
p0 1137 ± 1.43
1700
1600
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

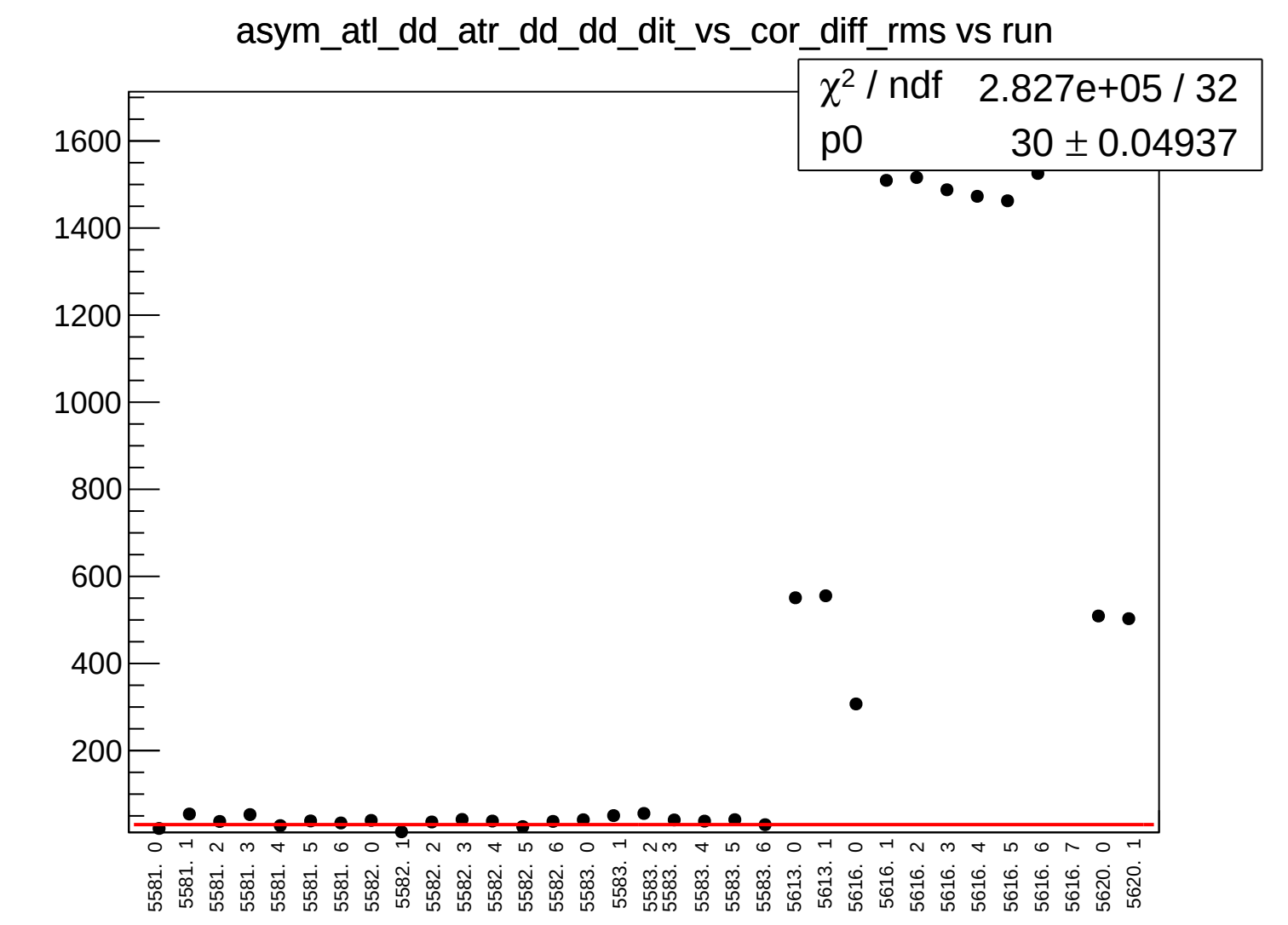

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 50.23 / 25
p0 −273.4 ± 3277
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 33.22
Std Dev 0
pull1D
Entries 26
Mean 0.196
Std Dev 1.376

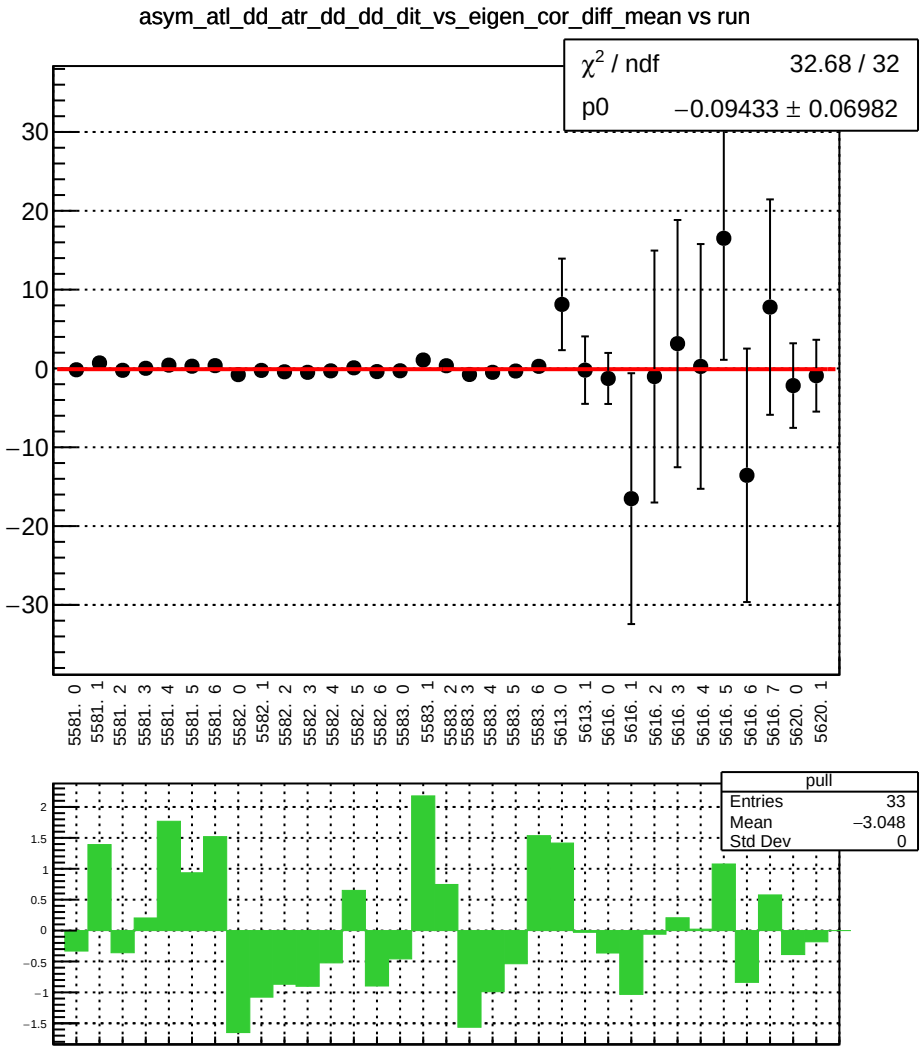

asym_atl_dd_atr_dd_dd_rms vs run
×10^3
χ^2 / ndf 1.638e+05 / 32
p0 1619 ± 2.317
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

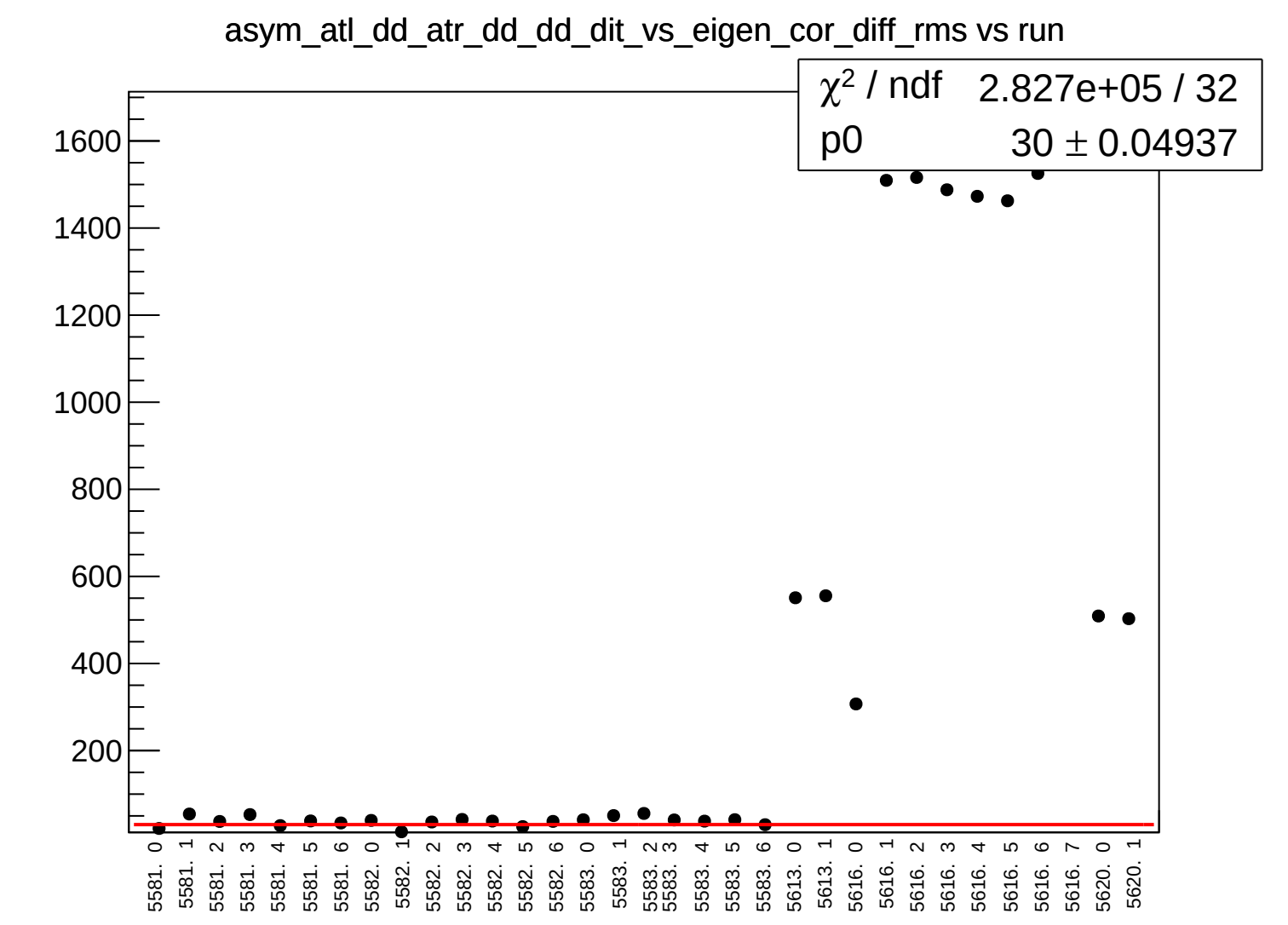

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 23.65 / 32
p0 2.51e−14 ± 1.707e−13
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 25.56
Std Dev 4.491
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1485
Std Dev 0.8335
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

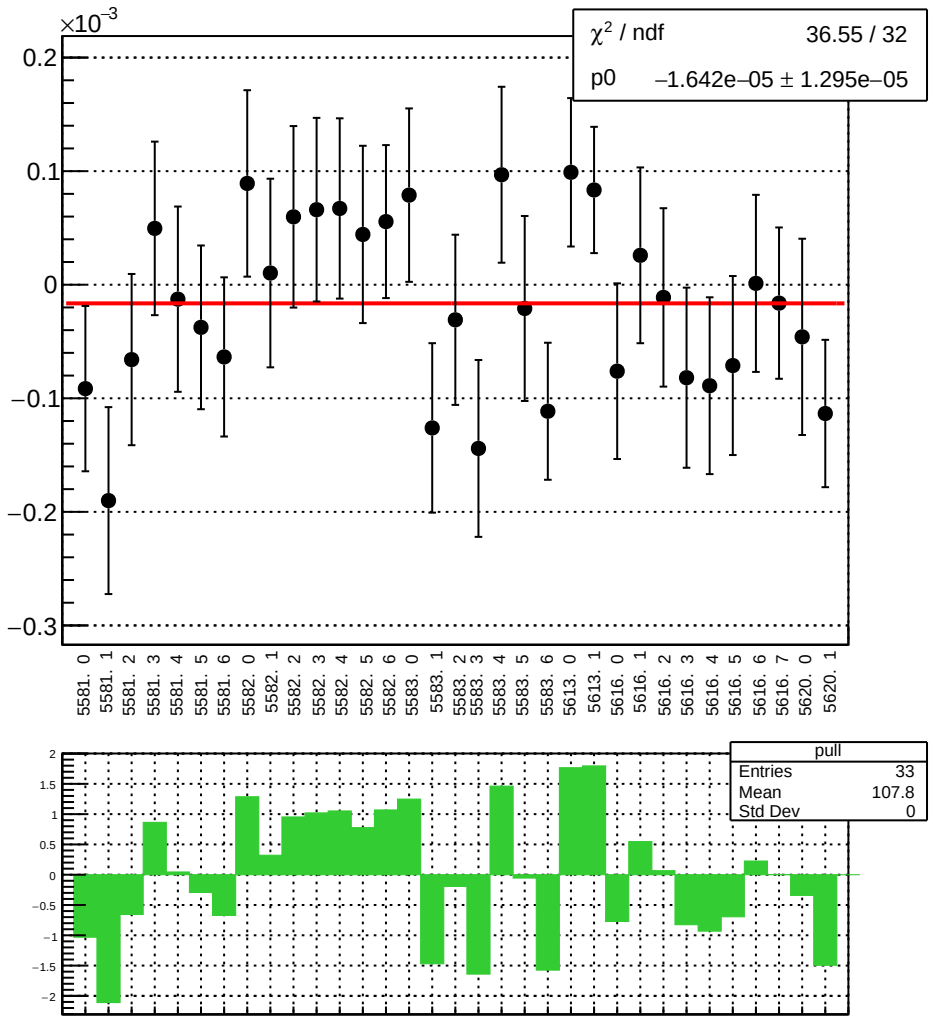

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.557e+05 / 32
p0 6.57e−11 ± 1.207e−13
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

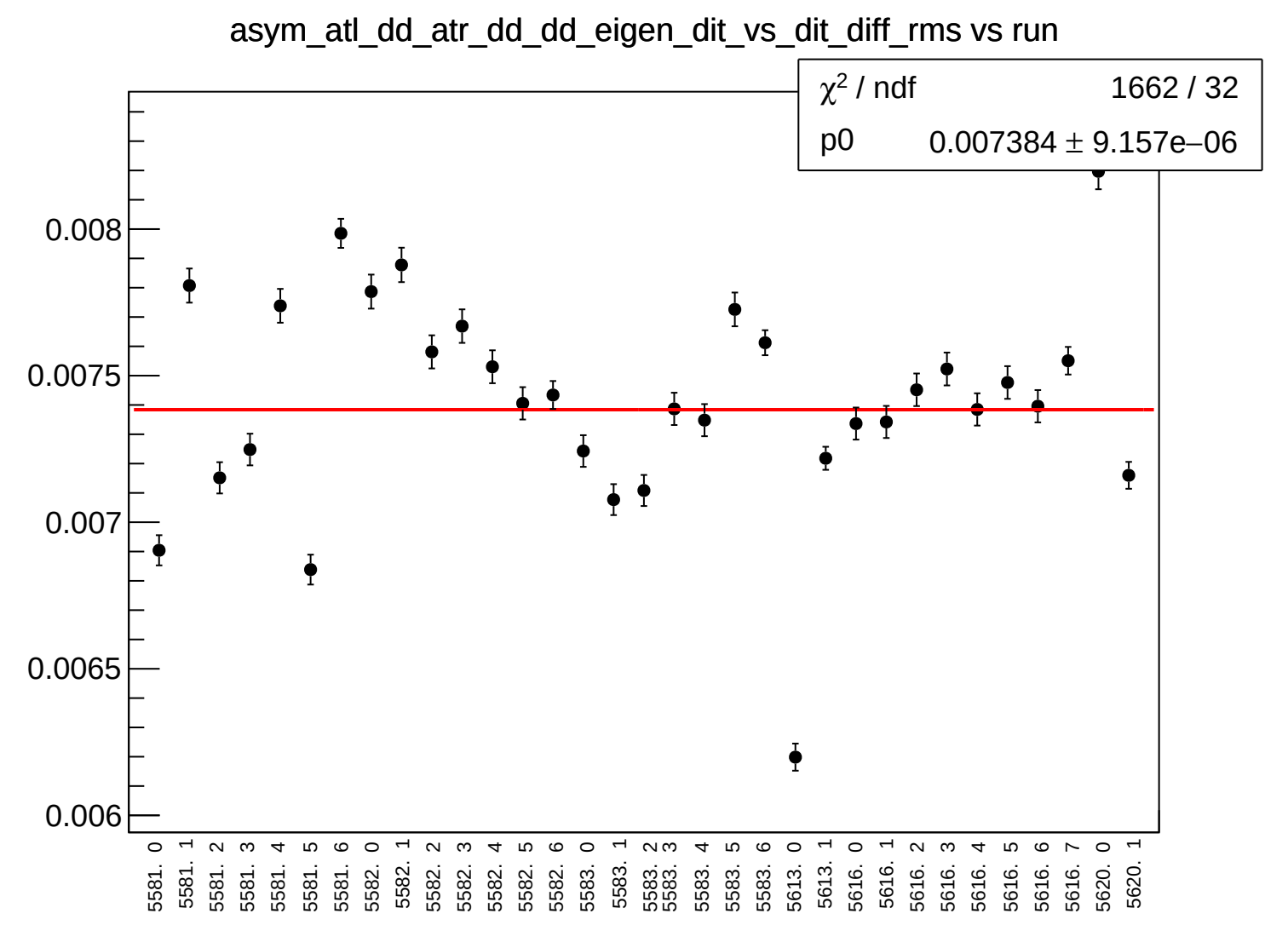

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 32.68 / 32
p0 −0.09433 ± 0.06982
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −3.048
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.03599
Std Dev 0.9944
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

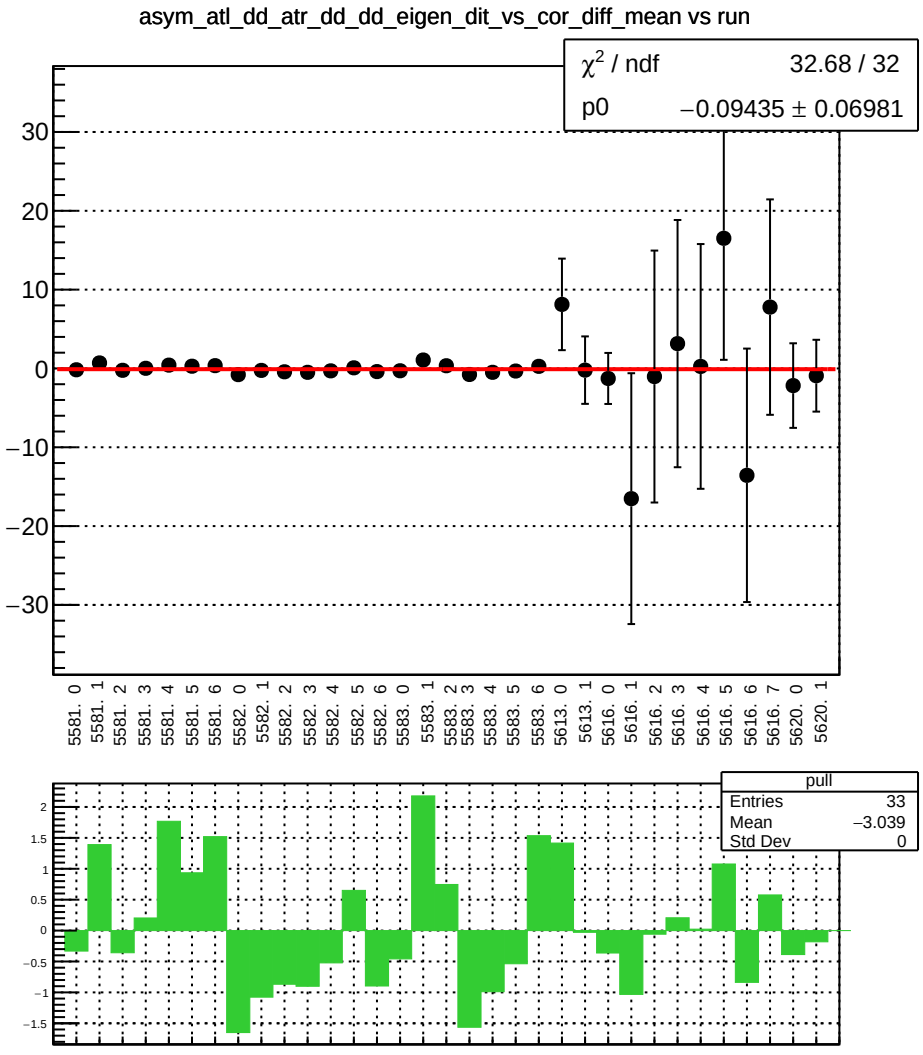

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.827e+05 / 32
p0 30 ± 0.04937
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

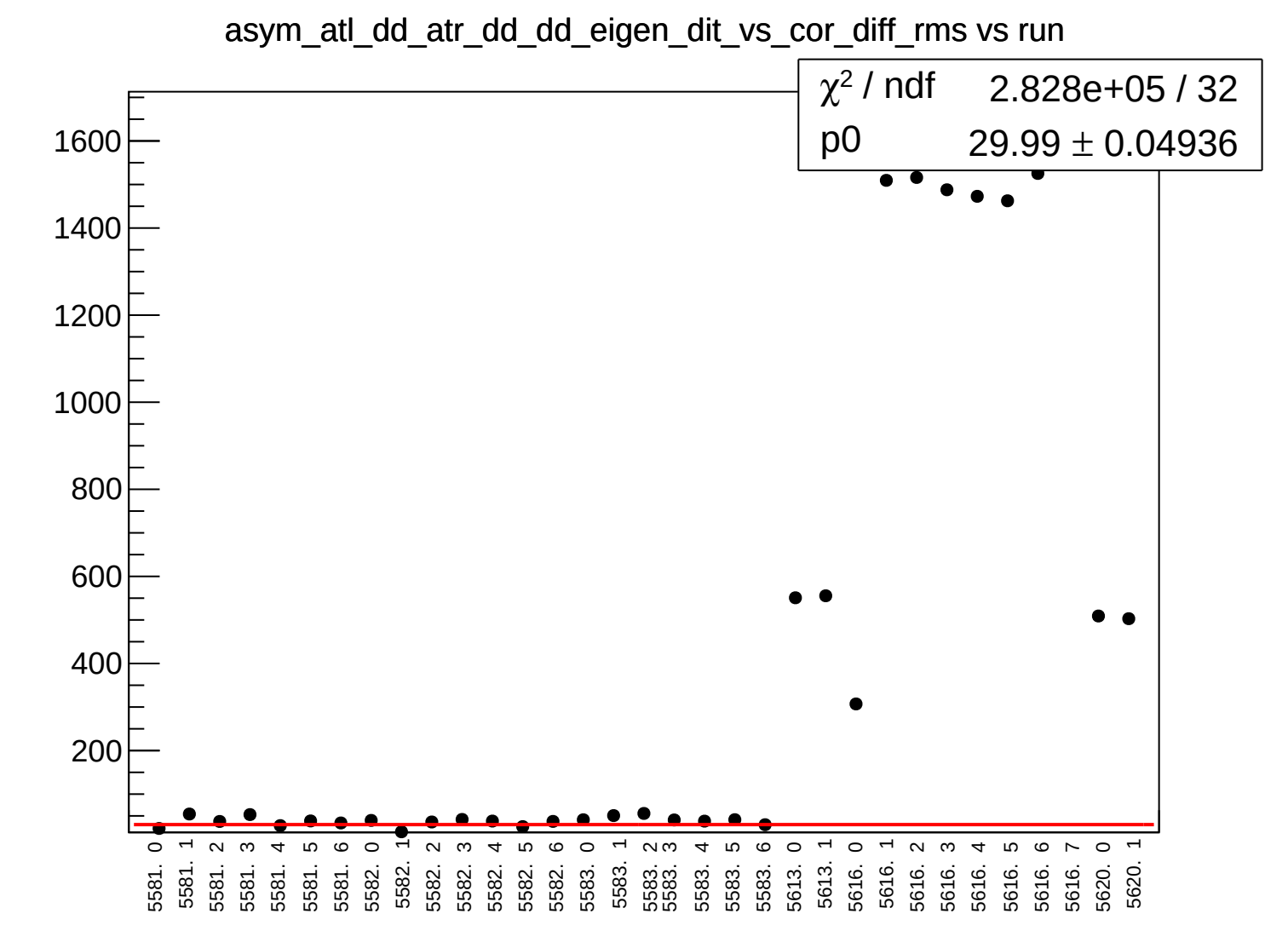

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.68 / 32
p0 −0.09433 ± 0.06982
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −3.048
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.03599
Std Dev 0.9944
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

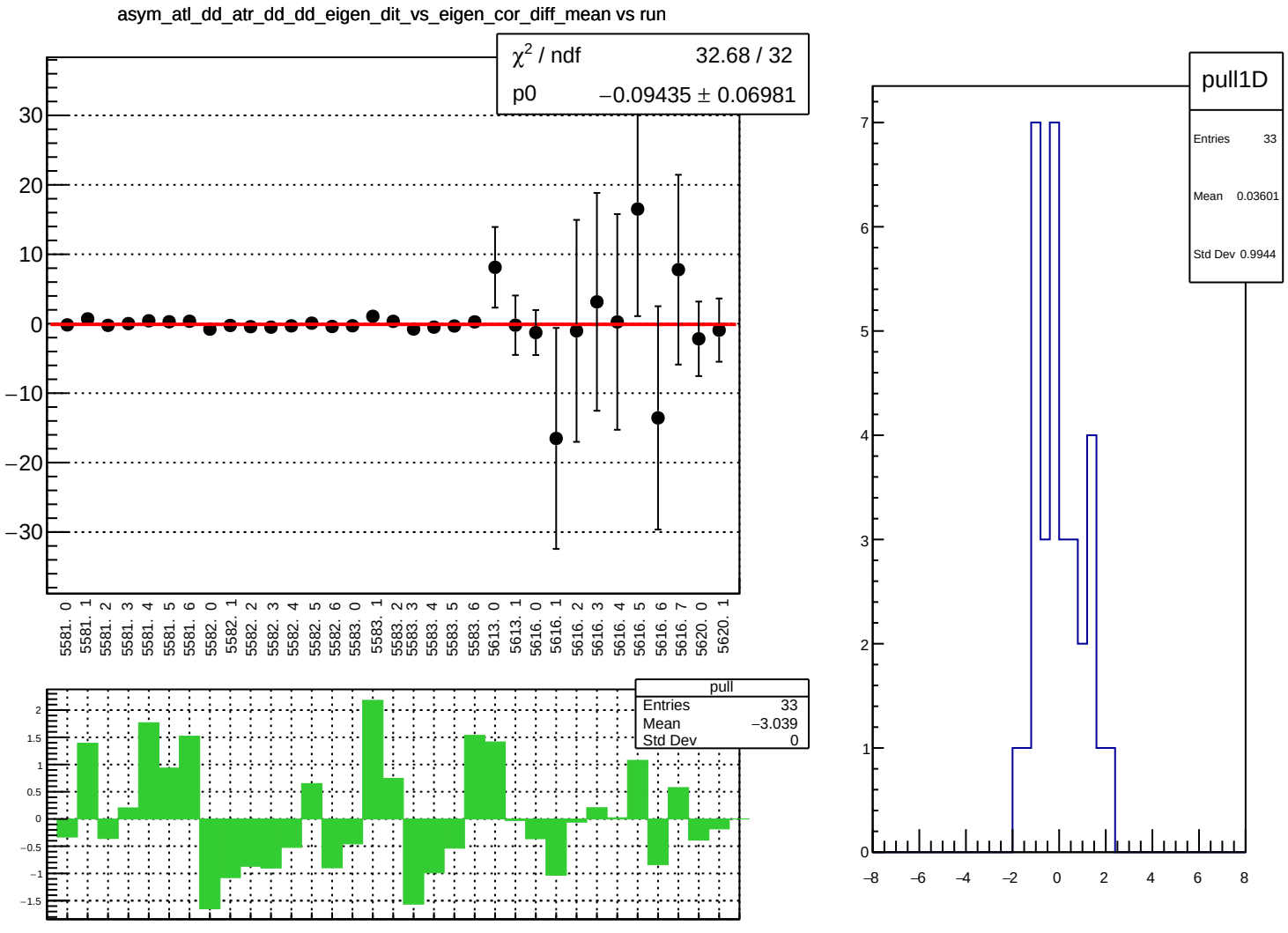

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.827e+05 / 32
p0 30 ± 0.04937
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

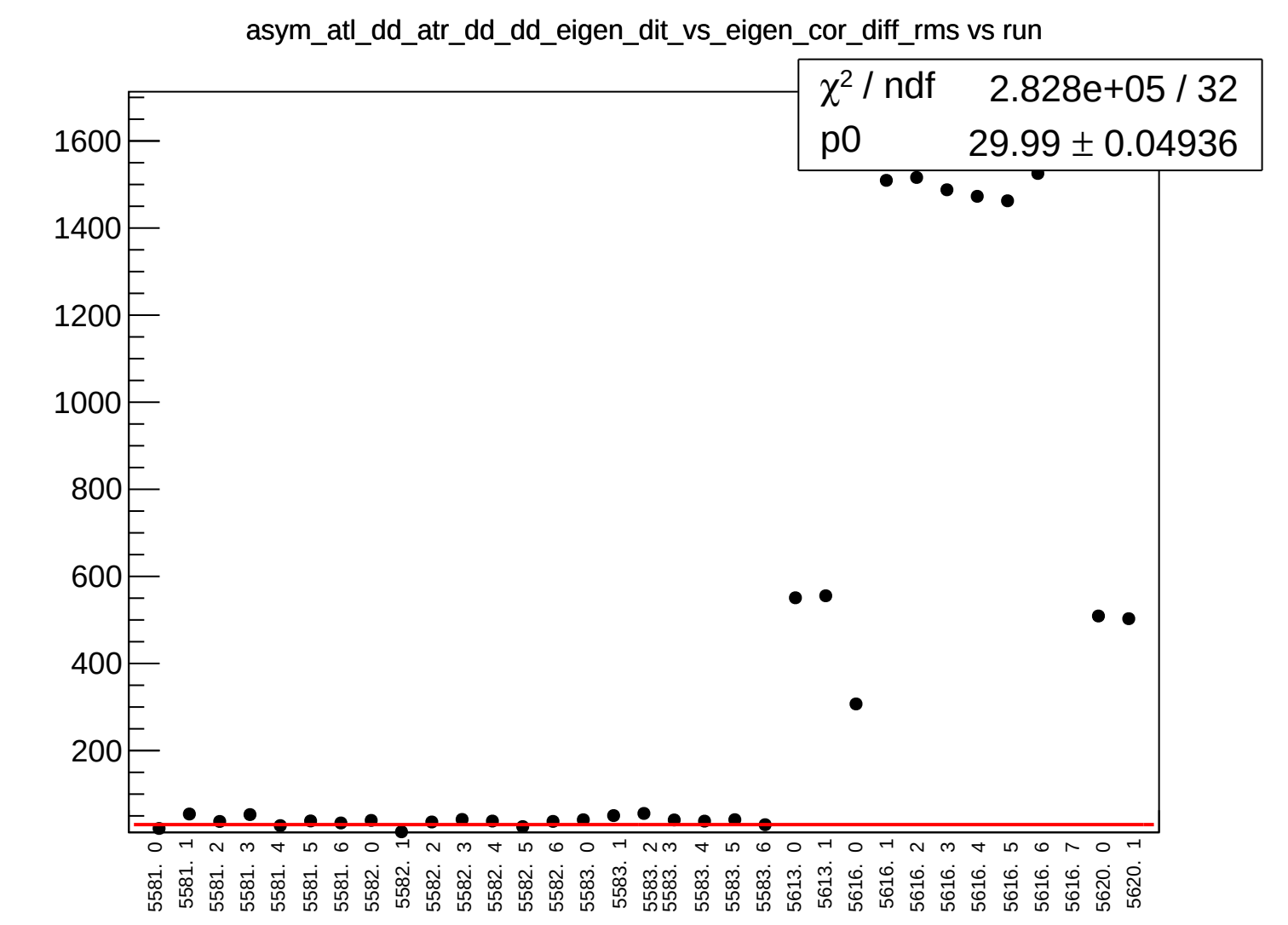

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 36.55 / 32
p0 −1.642e−05 ± 1.295e−05
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 107.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.007607
Std Dev 1.052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

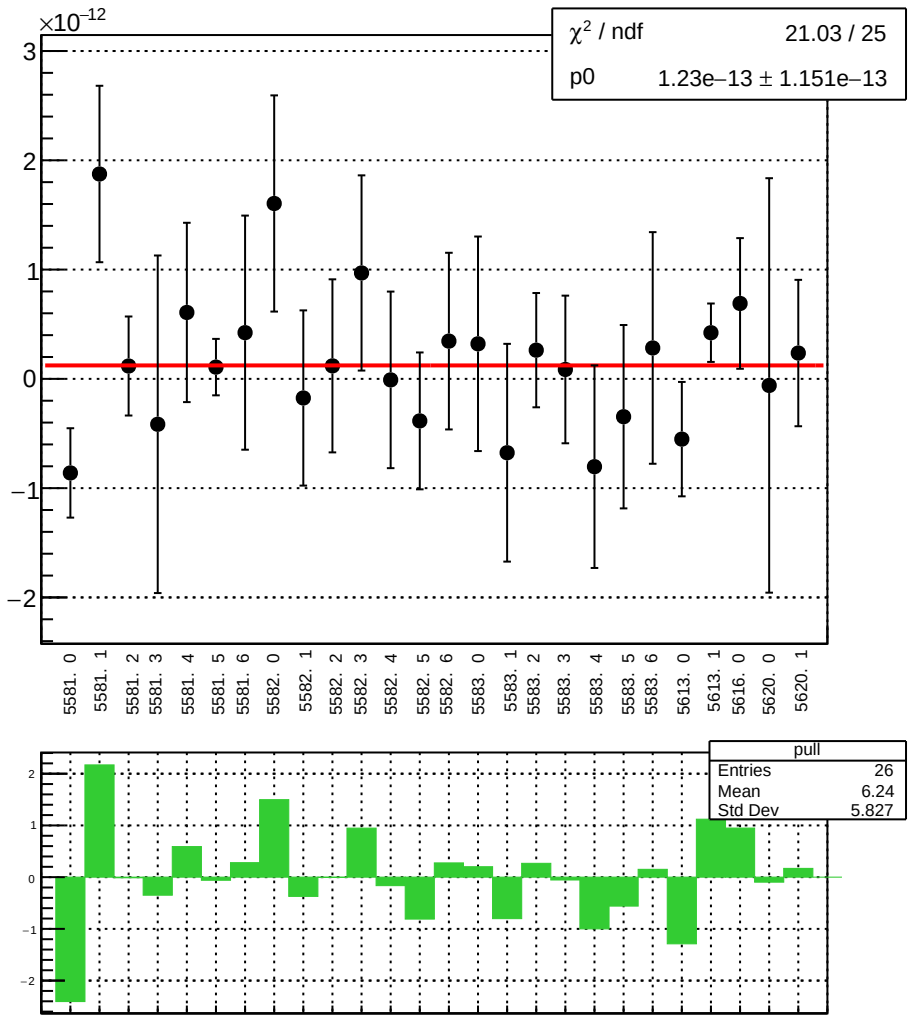

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1662 / 32
p0 0.007384 ± 9.157e−06
0.008
0.0075
0.007
0.0065
0.006
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

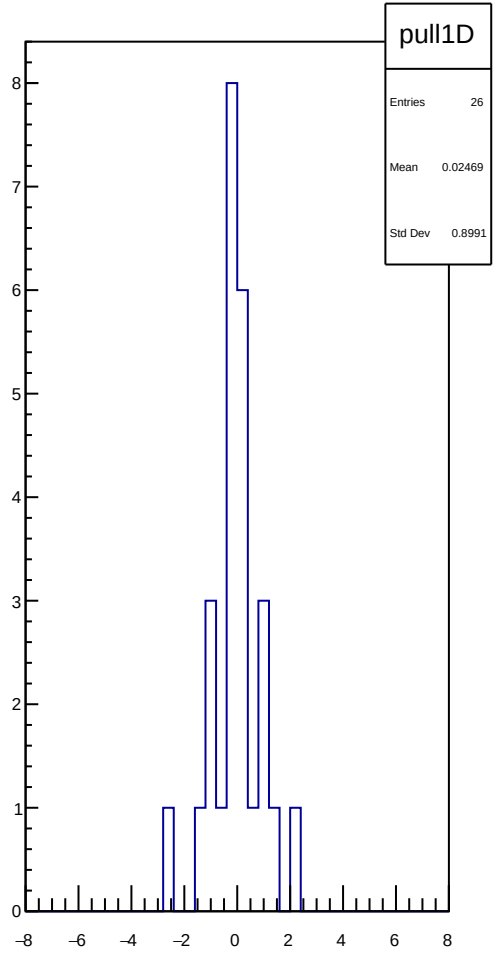

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.68 / 32
p0 −0.09435 ± 0.06981
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −3.039
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.03601
Std Dev 0.9944
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

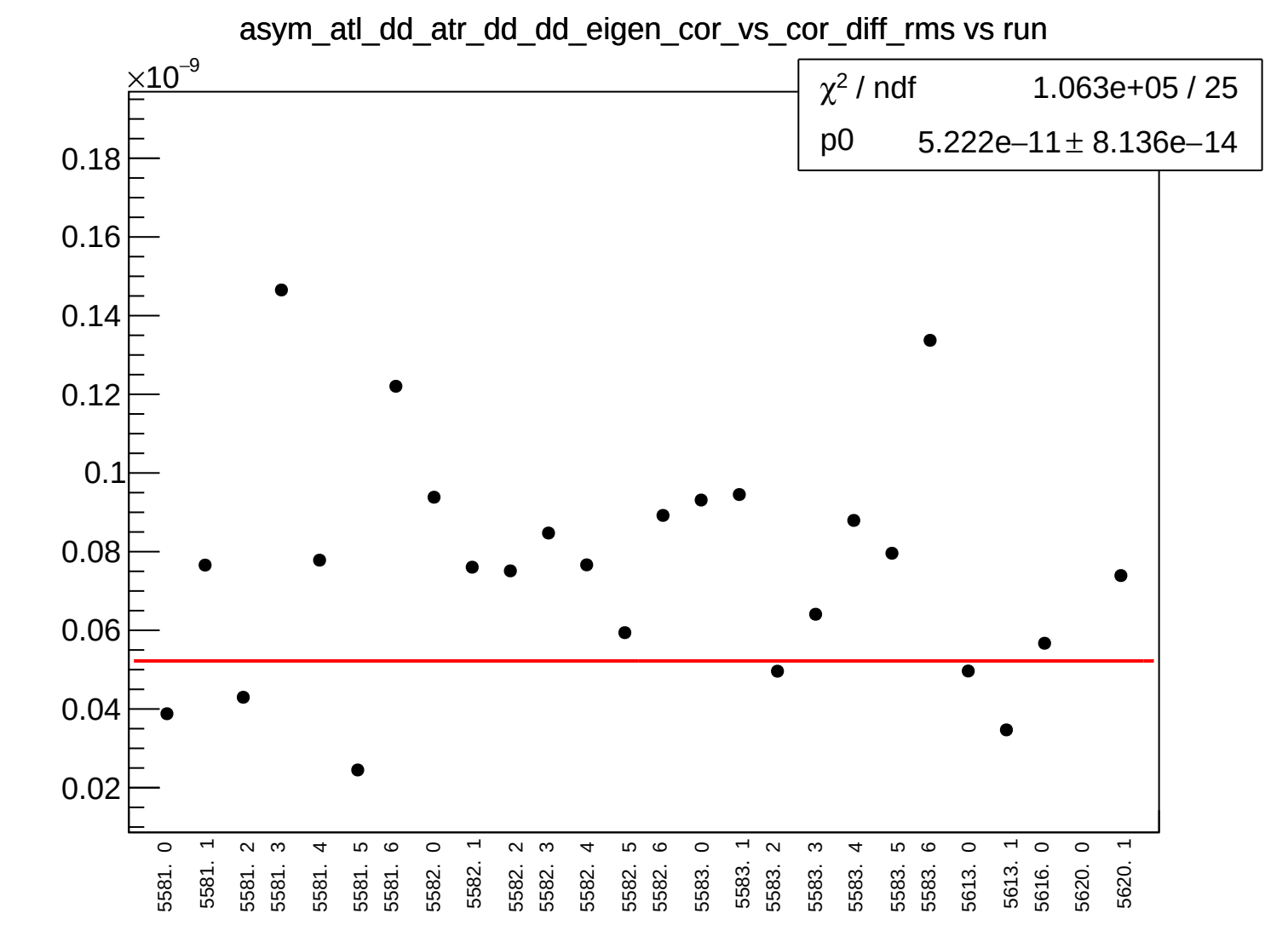

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.828e+05 / 32
p0 29.99 ± 0.04936
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

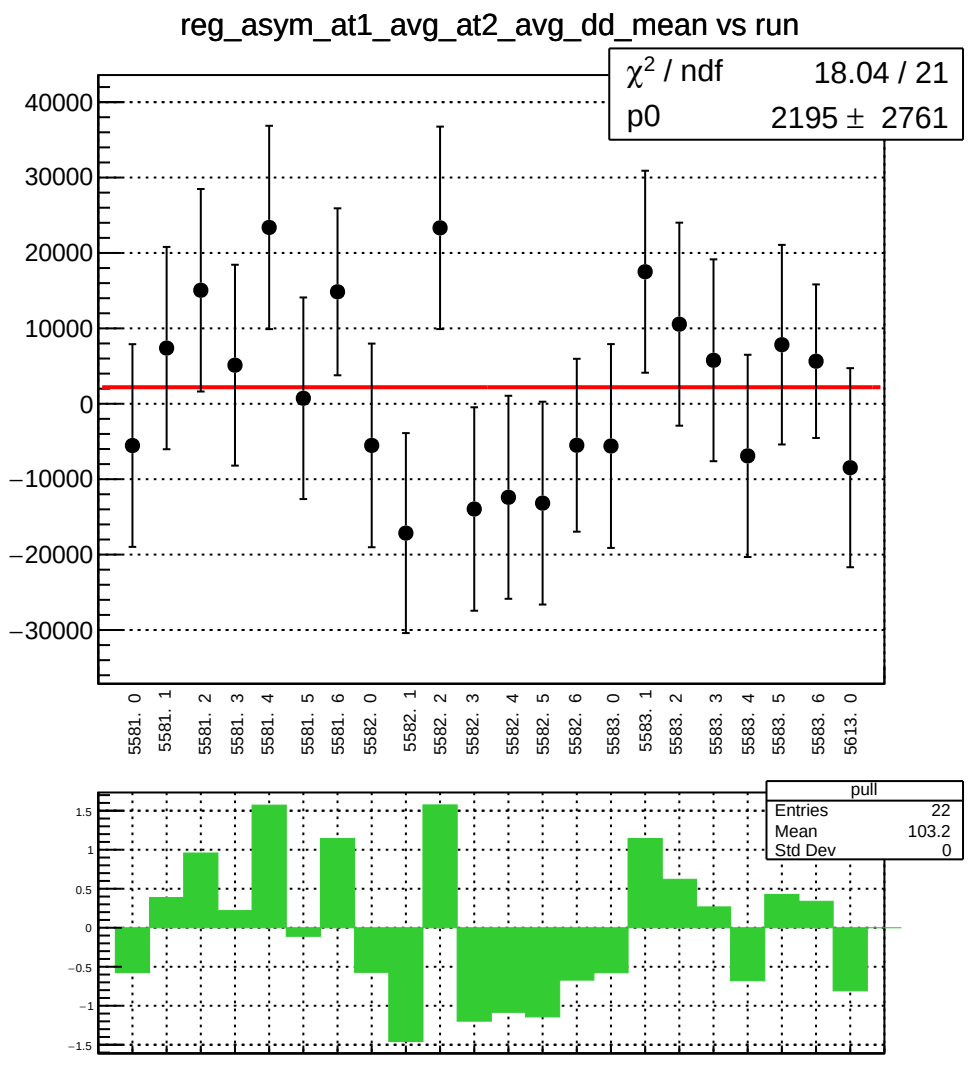

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.68 / 32
p0 −0.09435 ± 0.06981
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −3.039
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.03601
Std Dev 0.9944
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

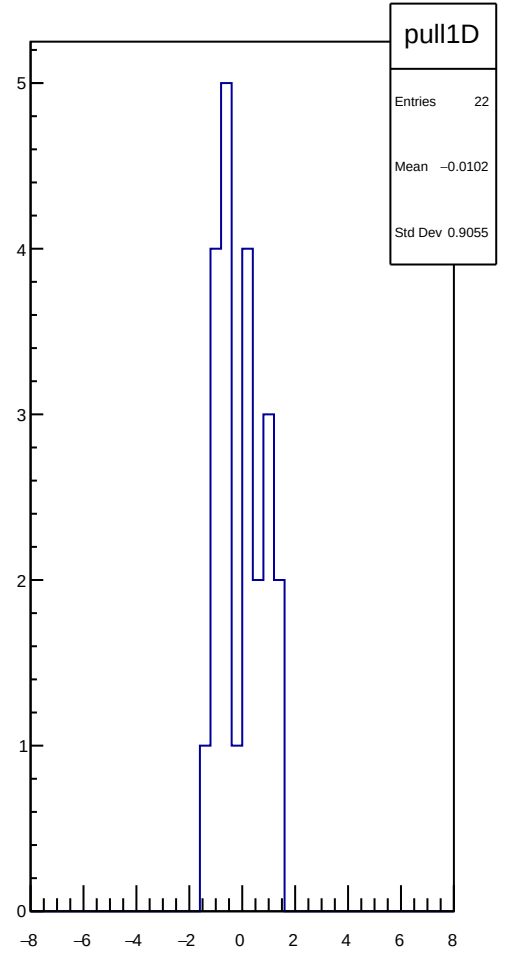

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.828e+05 / 32
p0 29.99 ± 0.04936
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

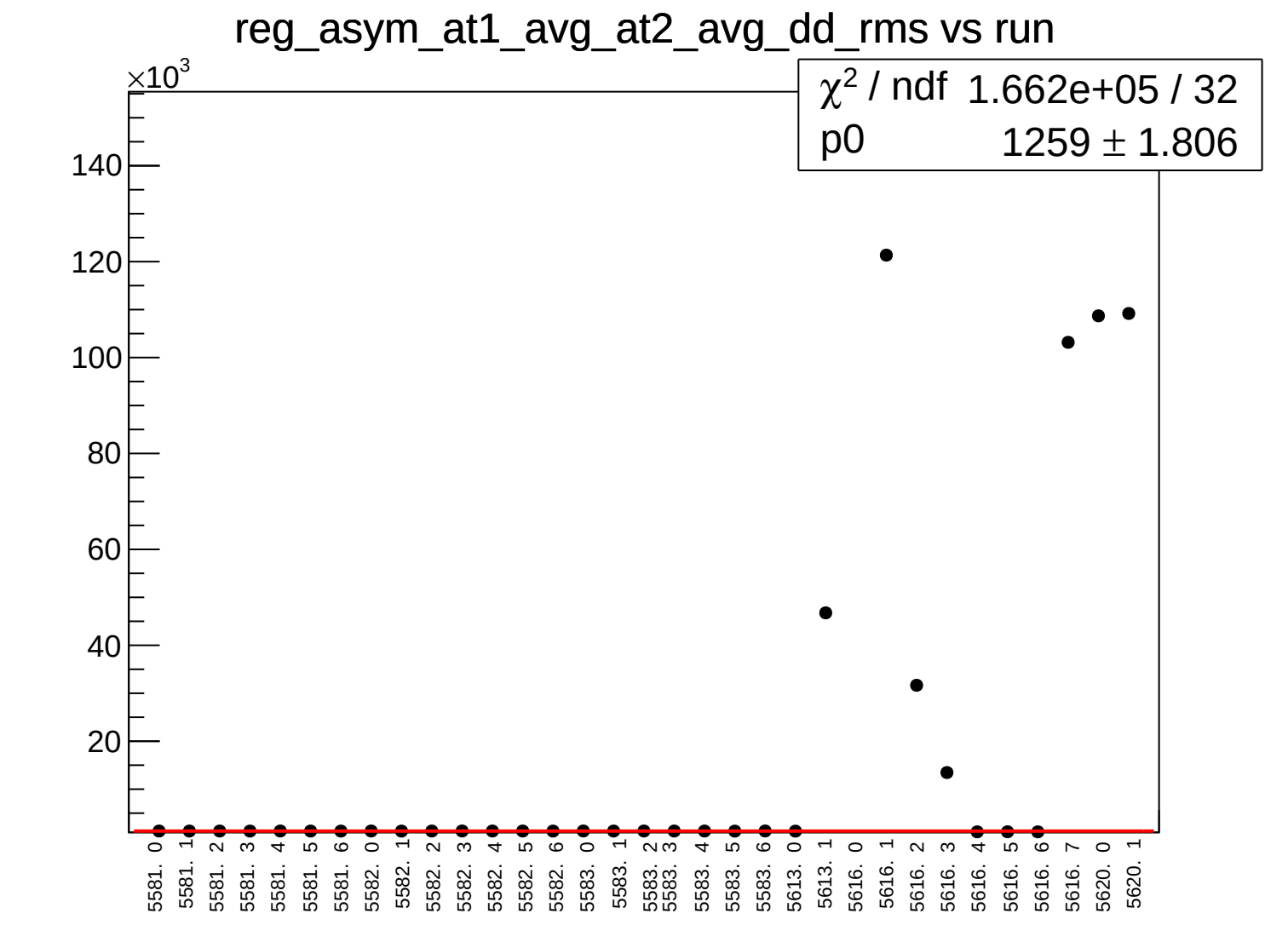

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 21.03 / 25
p0 1.23e−13 ± 1.151e−13
3
2
1
0
−1
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 6.24
Std Dev 5.827
2
1
0
−1
−2

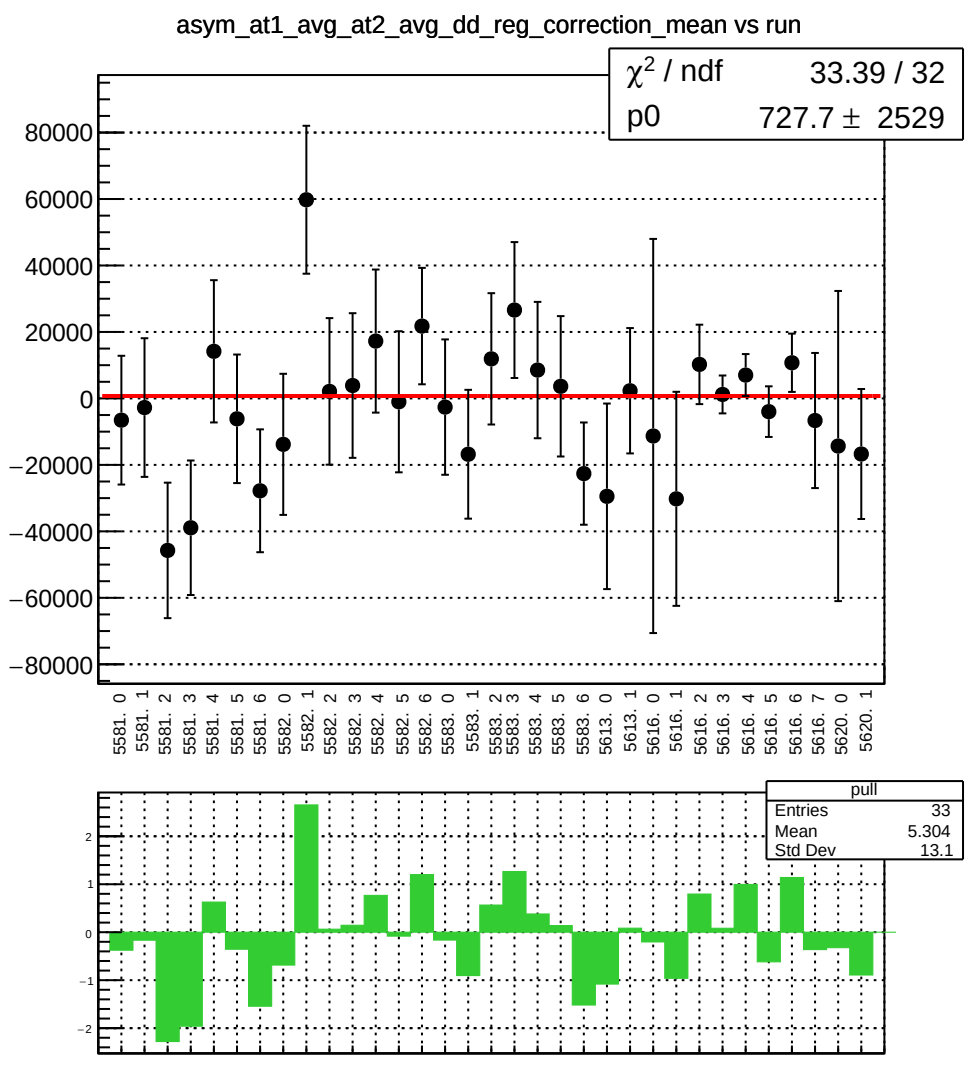

pull1D
Entries 26
Mean 0.02469
Std Dev 0.8991
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

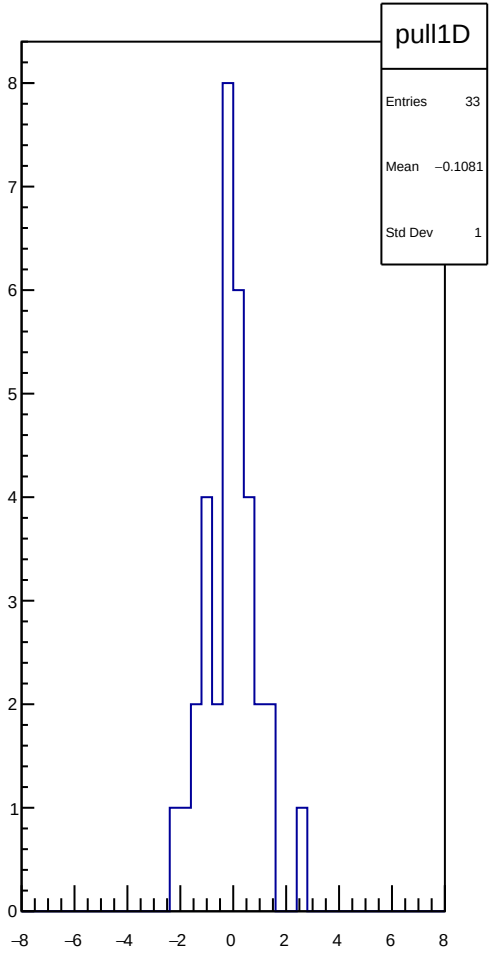

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.063e+05 / 25
p0 5.222e−11 ± 8.136e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

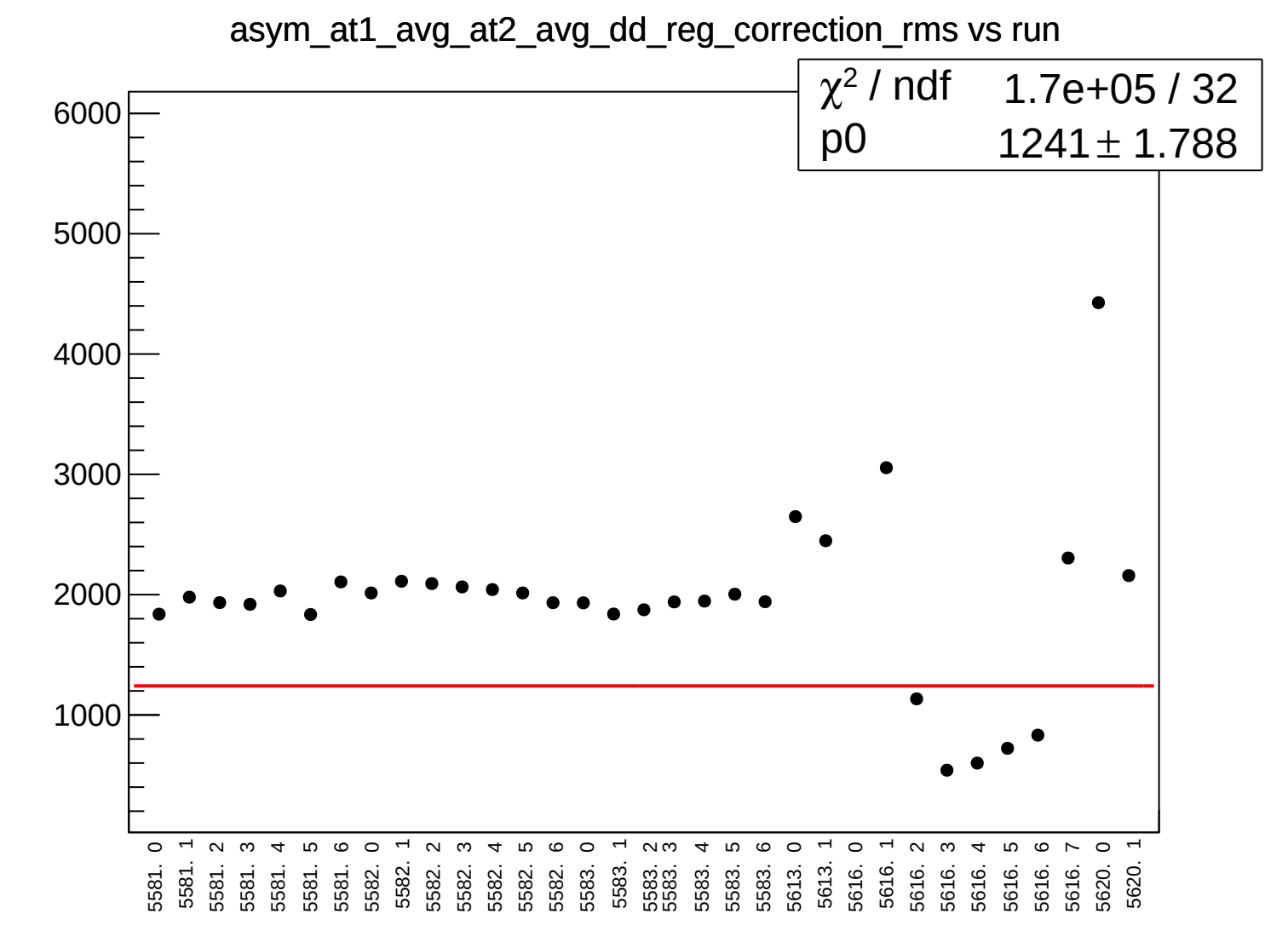

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 18.04 / 21
p0 2195 ± 2761
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 103.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

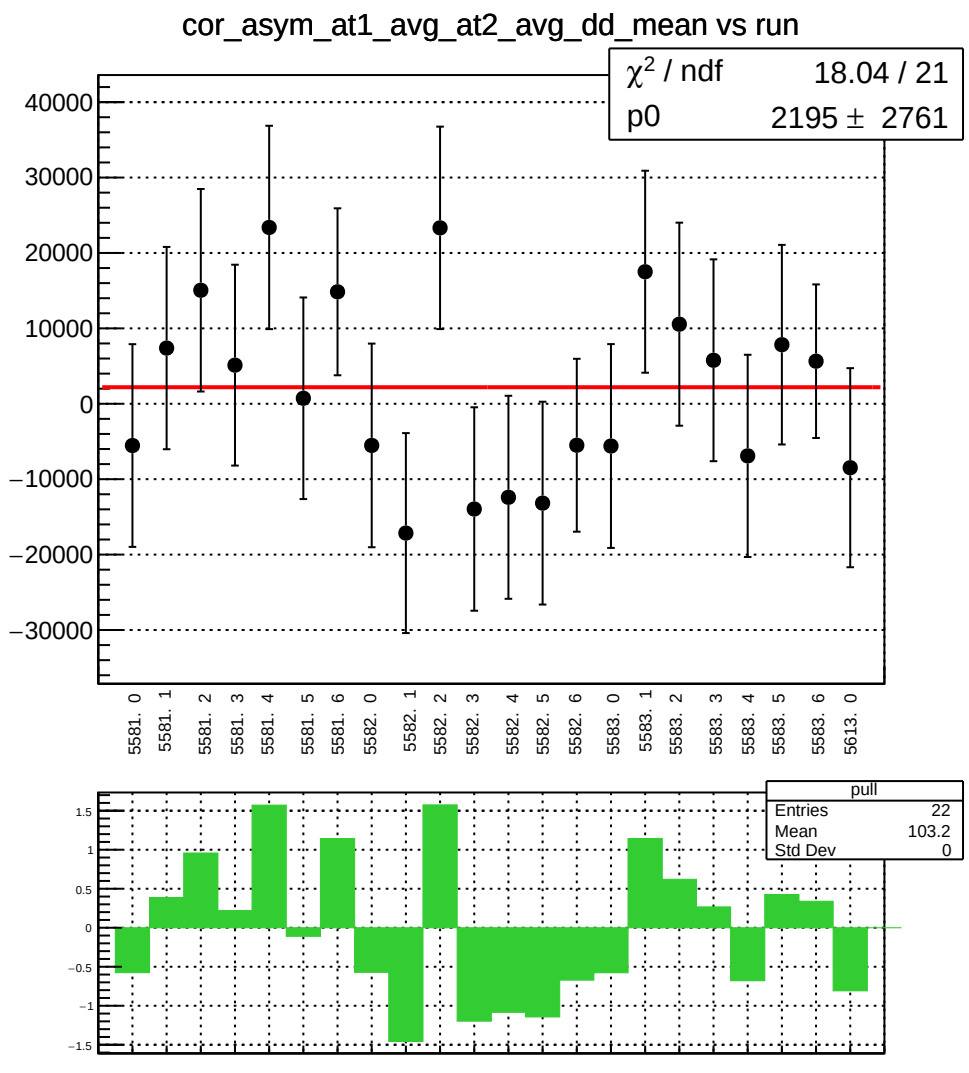

pull1D
Entries 22
Mean −0.0102
Std Dev 0.9055
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

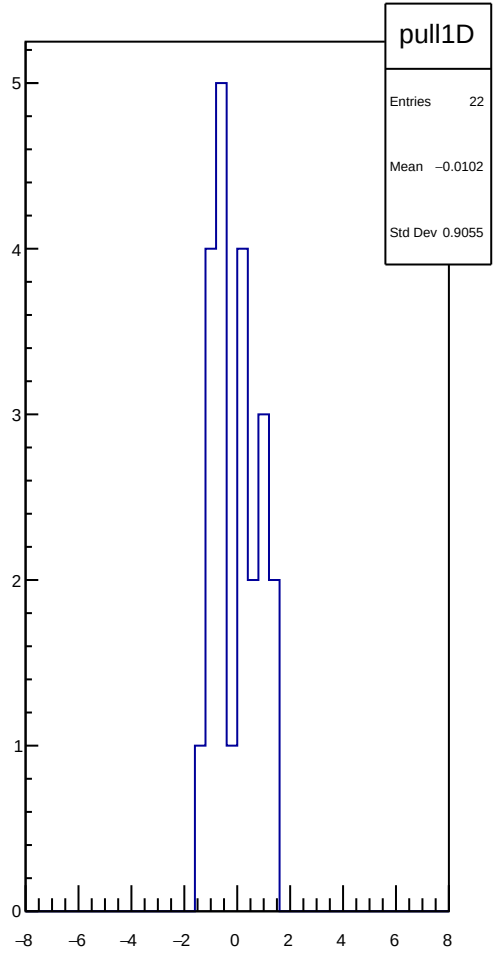

reg_asym_at1_avg_at2_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.662e+05 / 32
p0 1259 ± 1.806
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

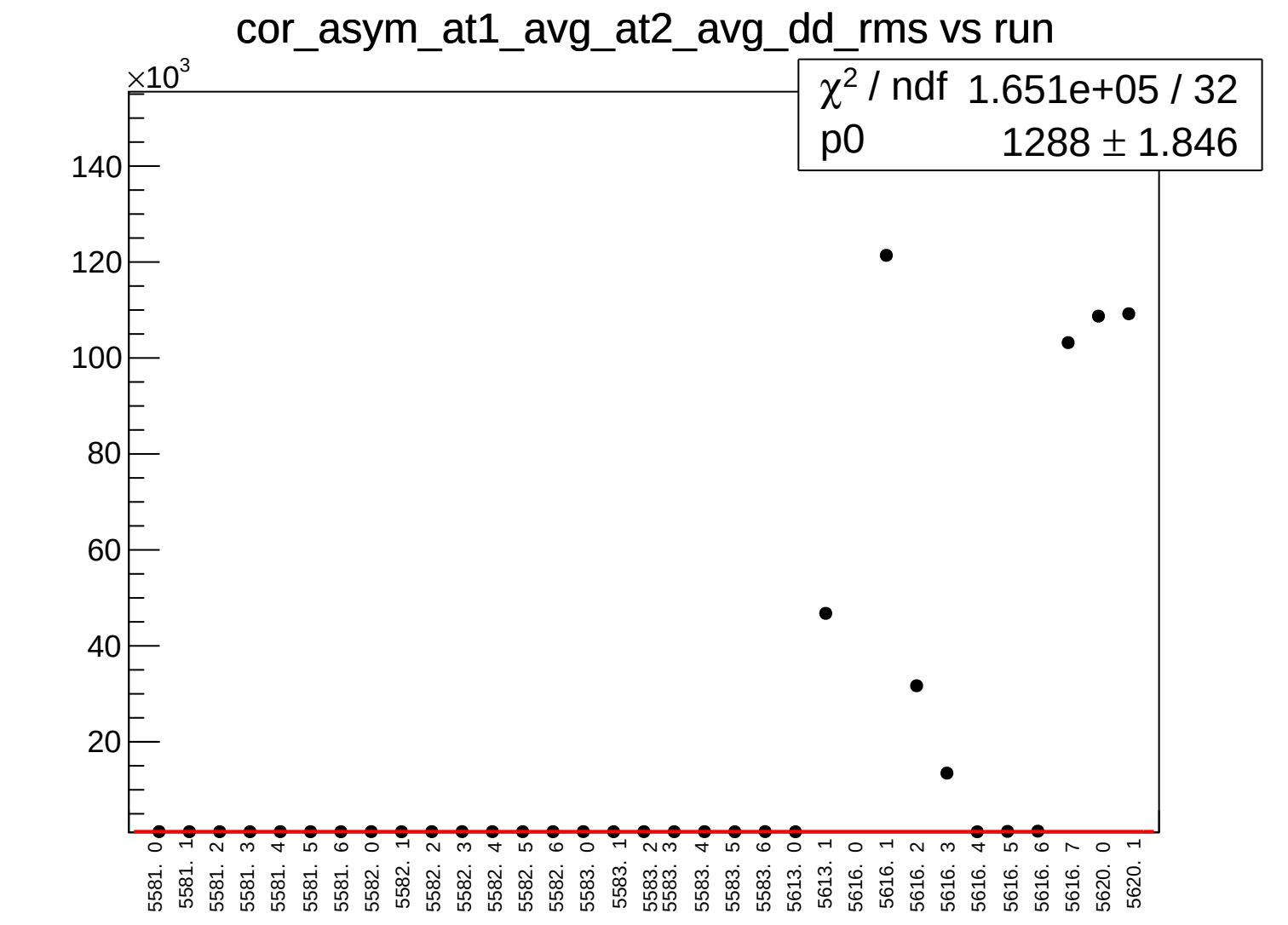

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
χ² / ndf 33.39 / 32
p0 727.7 ± 2529
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5.304
Std Dev 13.1
2
1
0
−1
−2

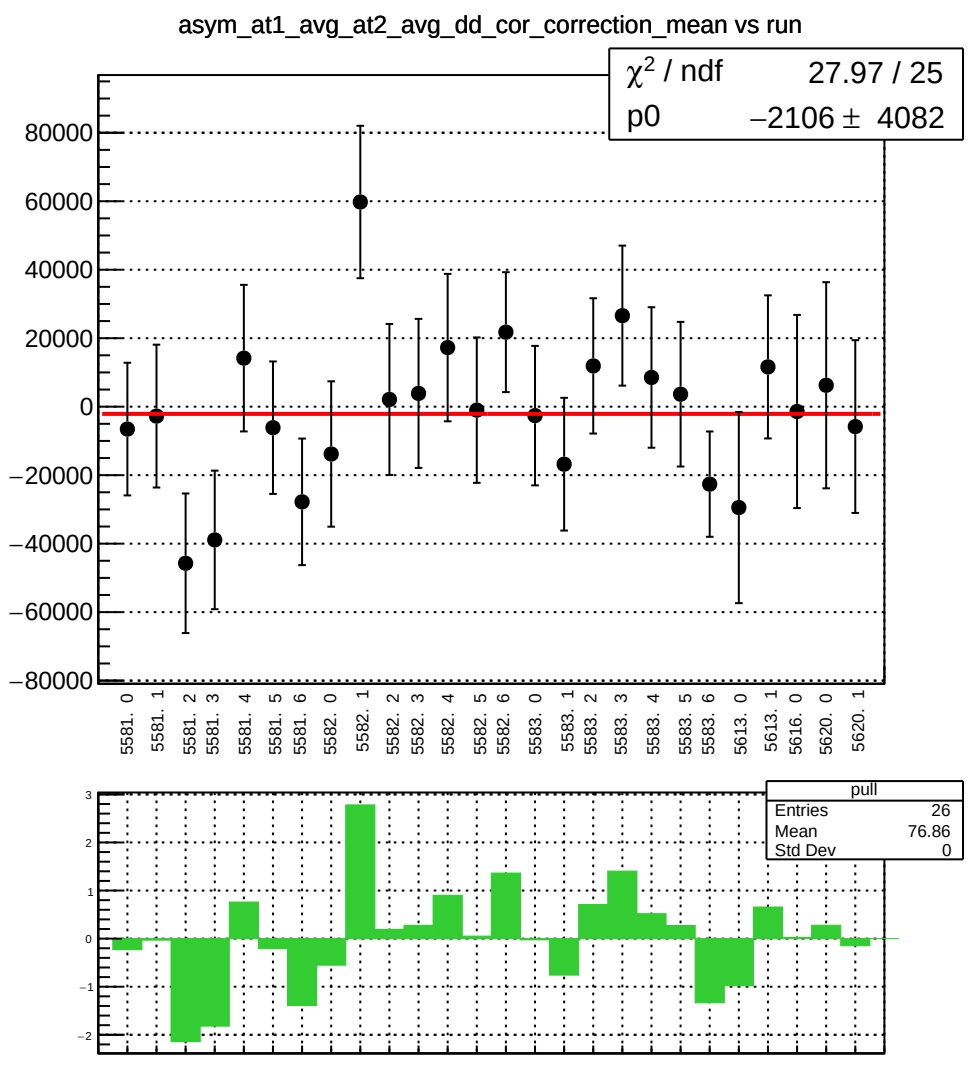

pull1D
Entries 33
Mean −0.1081
Std Dev 1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

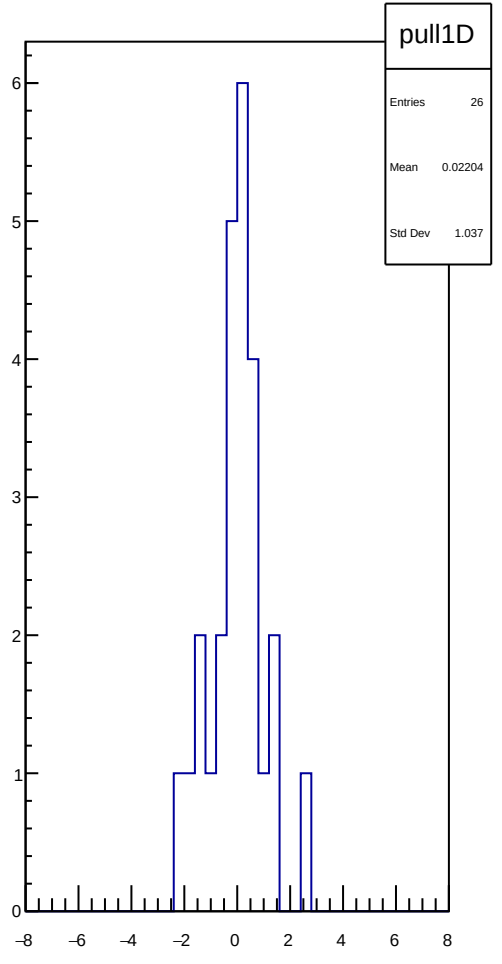

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.7e+05 / 32
p0 1241 ± 1.788
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

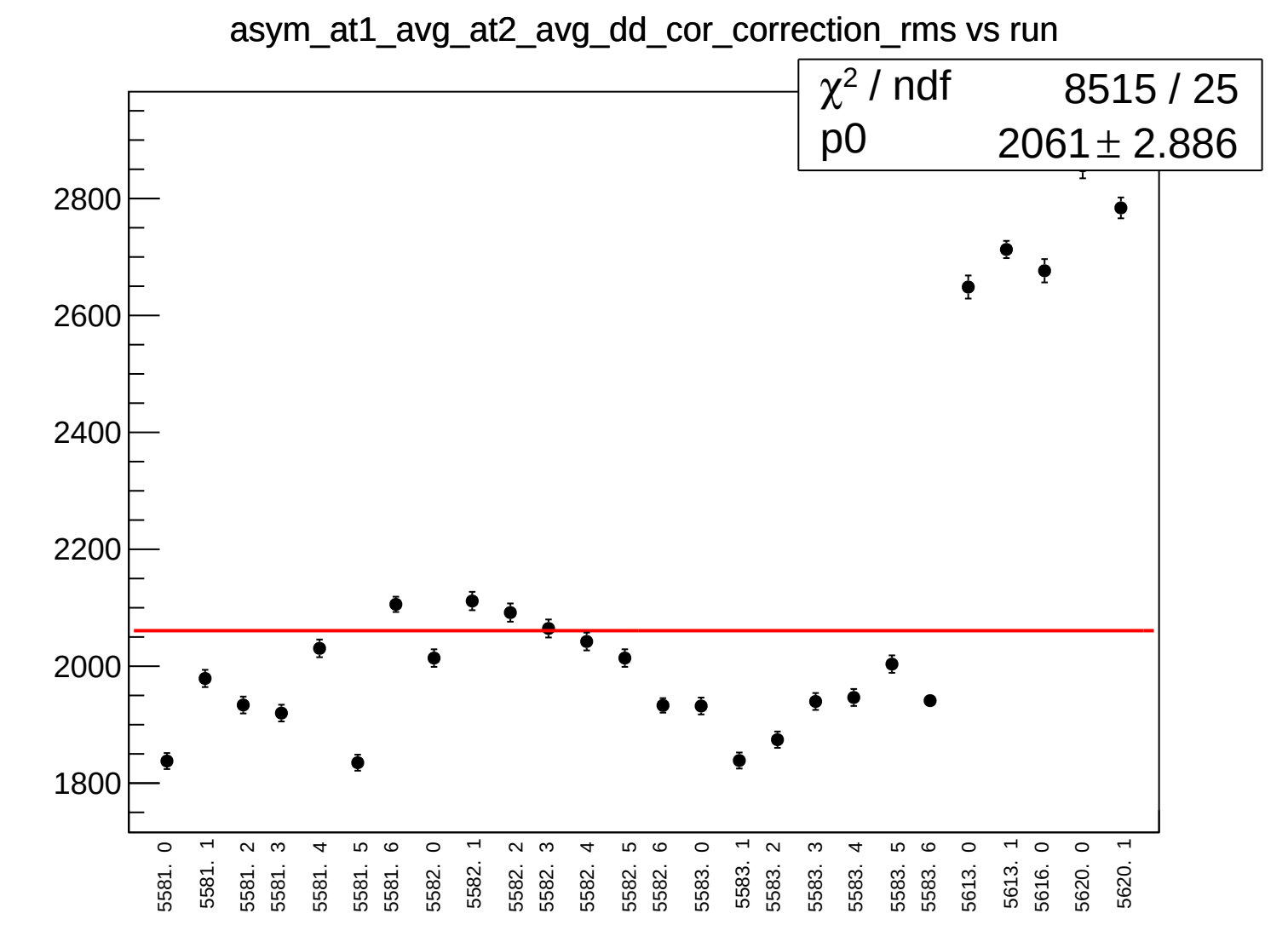

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 18.04 / 21
p0 2195 ± 2761
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 103.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

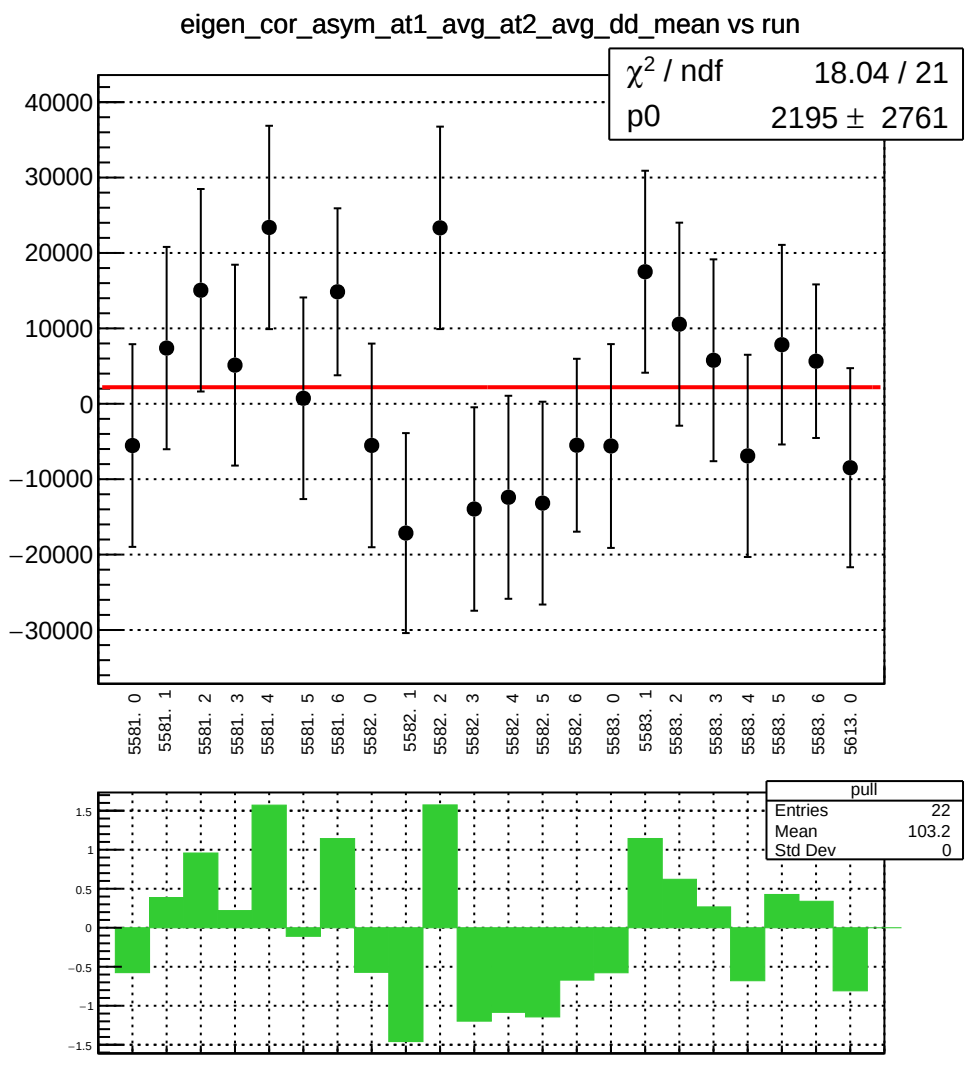

pull1D
Entries 22
Mean −0.0102
Std Dev 0.9055
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

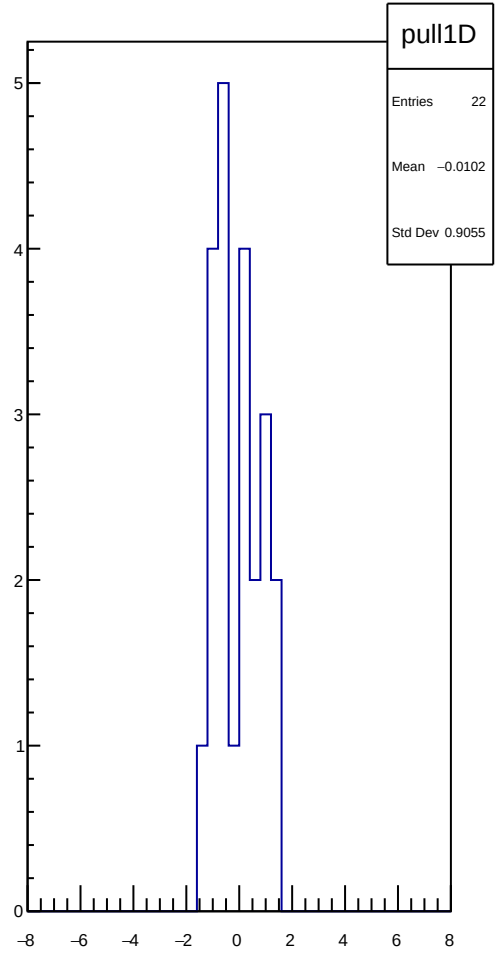

cor_asym_at1_avg_at2_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.651e+05 / 32
p0 1288 ± 1.846
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

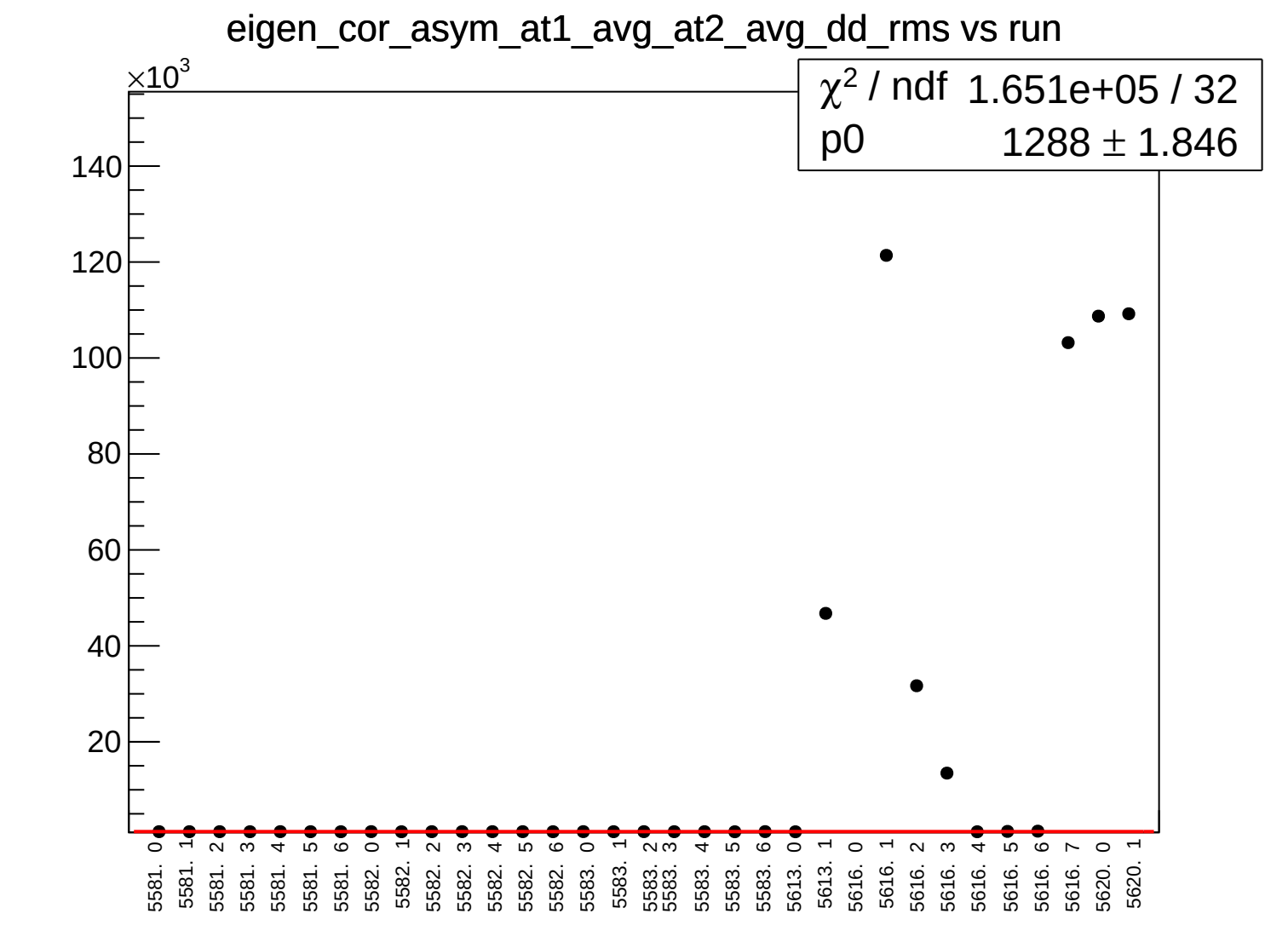

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
χ² / ndf 27.97 / 25
p0 −2106 ± 4082
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 76.86
Std Dev 0
3
2
1
0
−1
−2

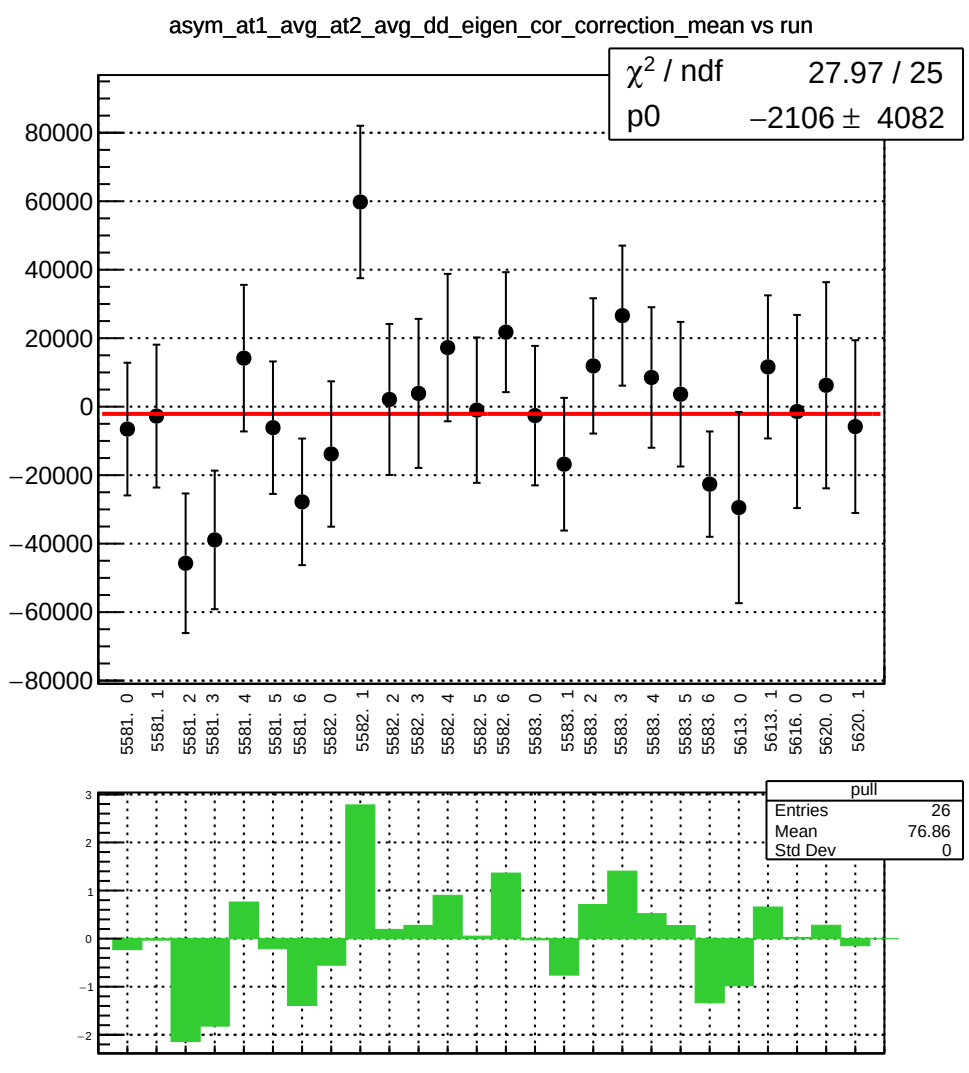

pull1D
Entries 26
Mean 0.02204
Std Dev 1.037
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

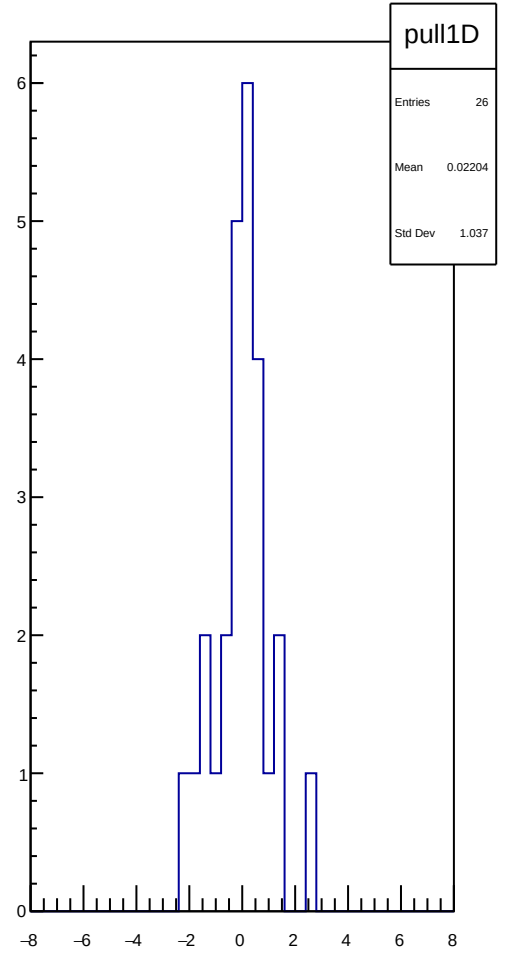

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 8515 / 25
p0 2061 ± 2.886
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

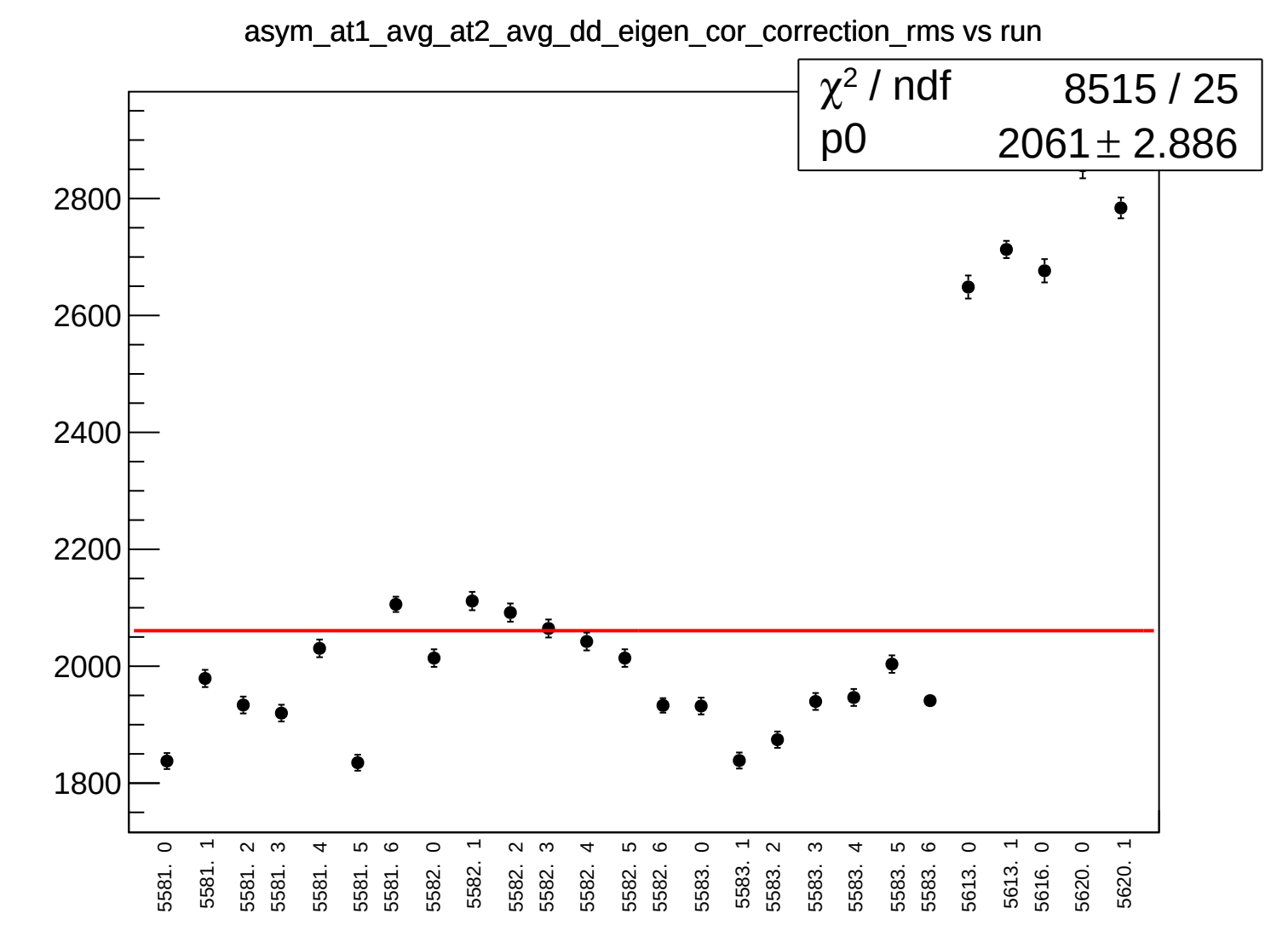

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 18.04 / 21
p0 2195 ± 2761
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 103.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

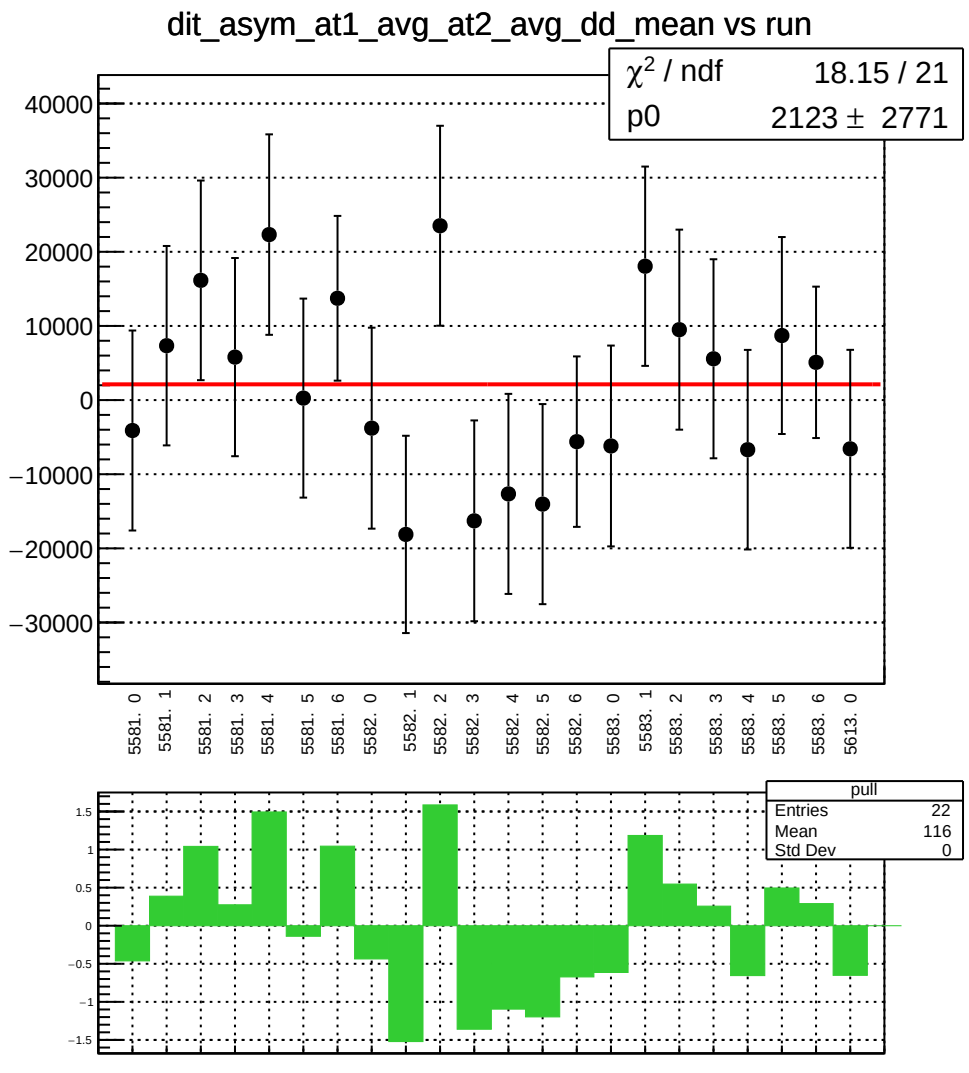

pull1D
Entries 22
Mean −0.0102
Std Dev 0.9055
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

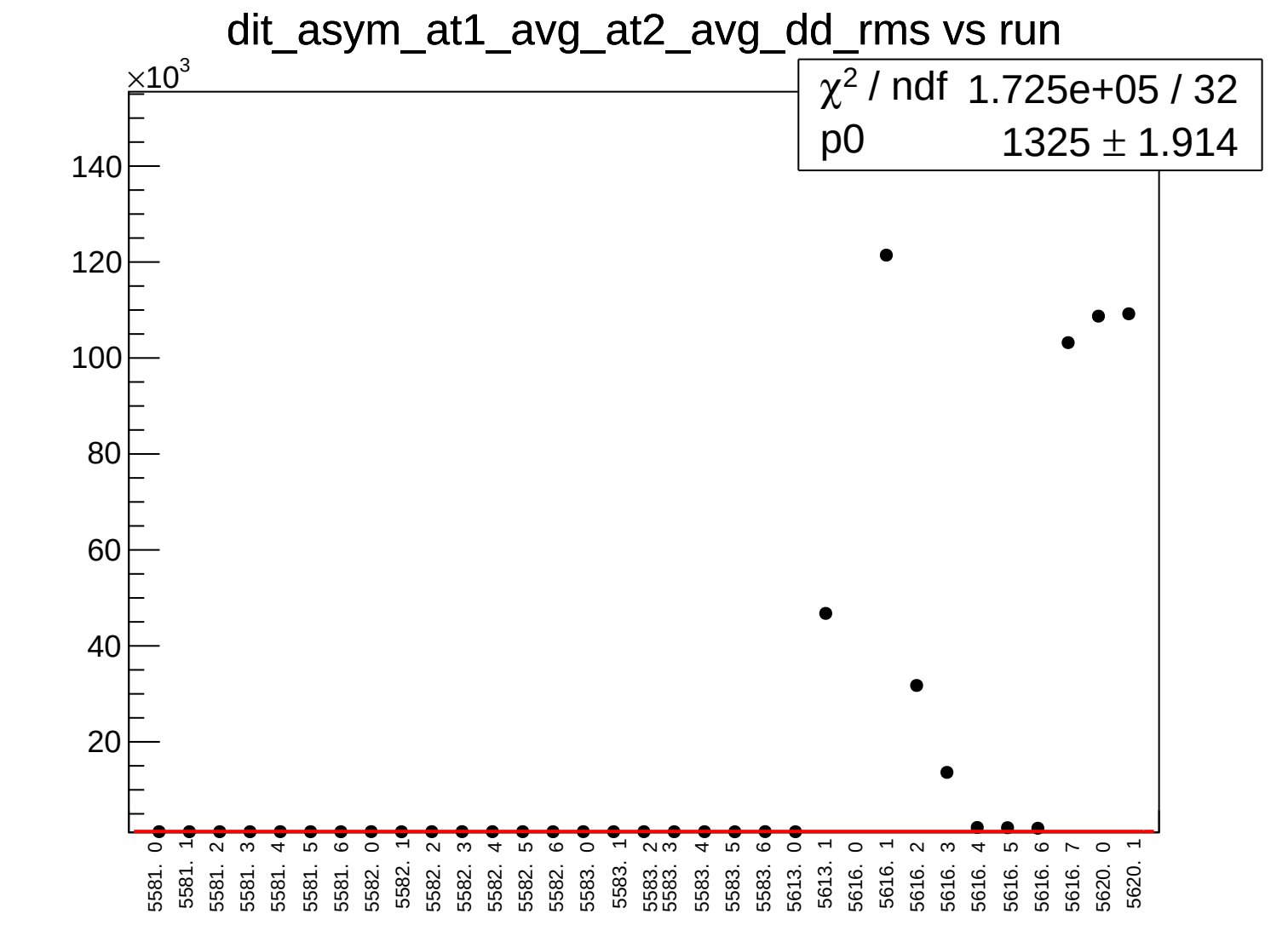

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
×10^3
χ² / ndf 1.651e+05 / 32
p0 1288 ± 1.846
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

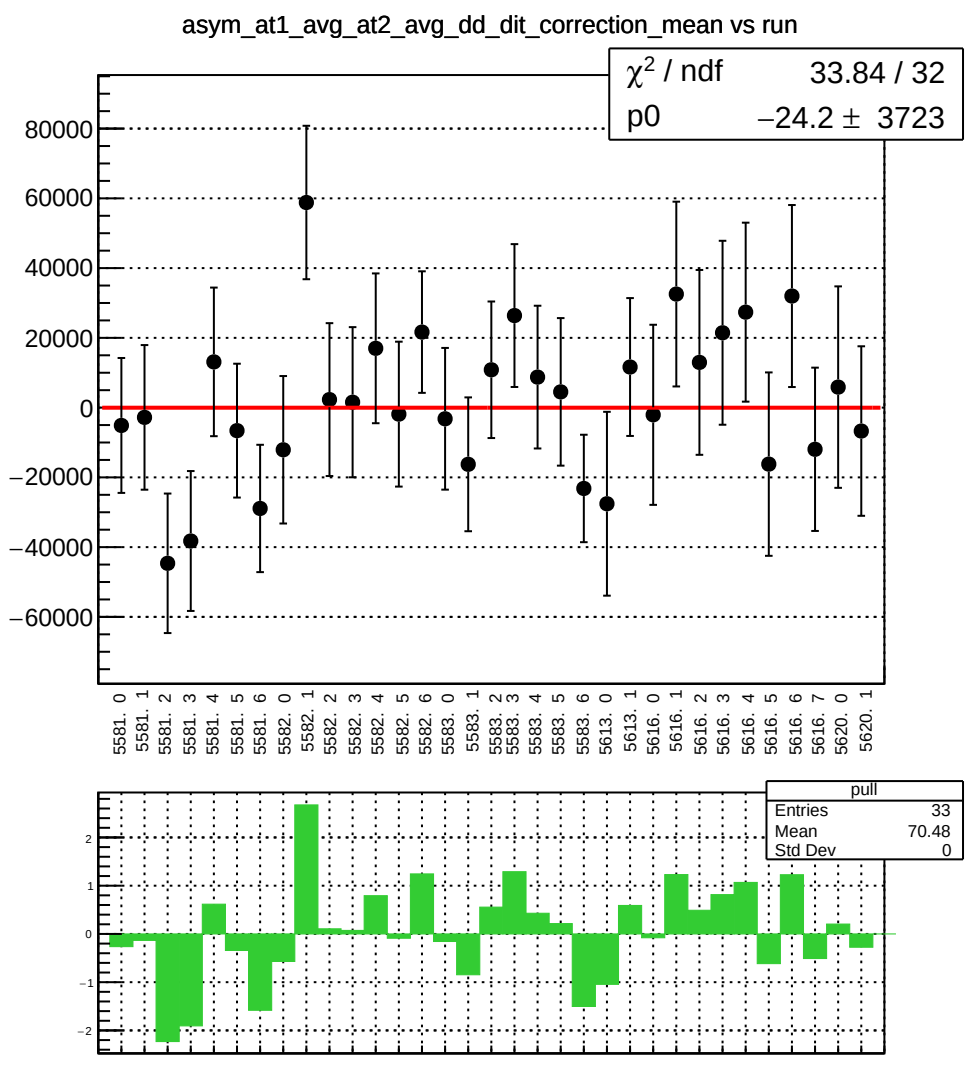

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 27.97 / 25
p0 −2106 ± 4082
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 76.86
Std Dev 0
3
2
1
0
−1
−2

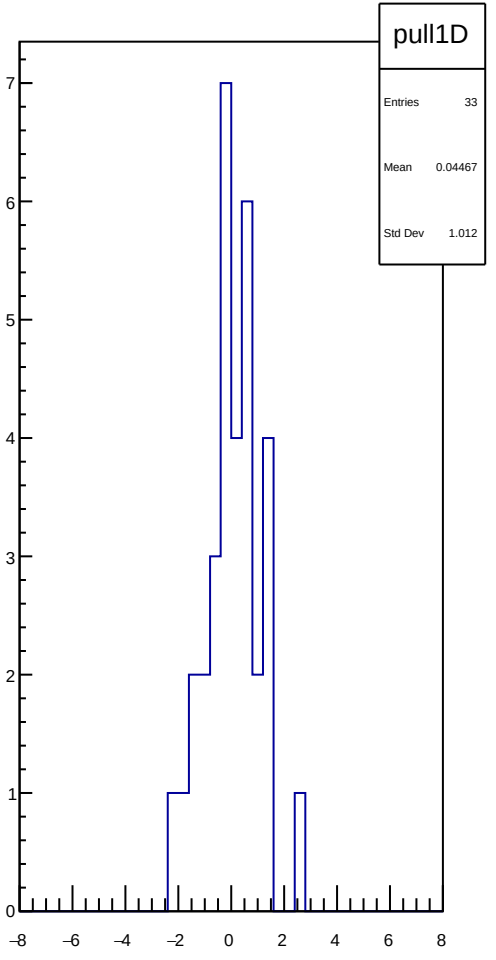

pull1D
Entries 26
Mean 0.02204
Std Dev 1.037
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

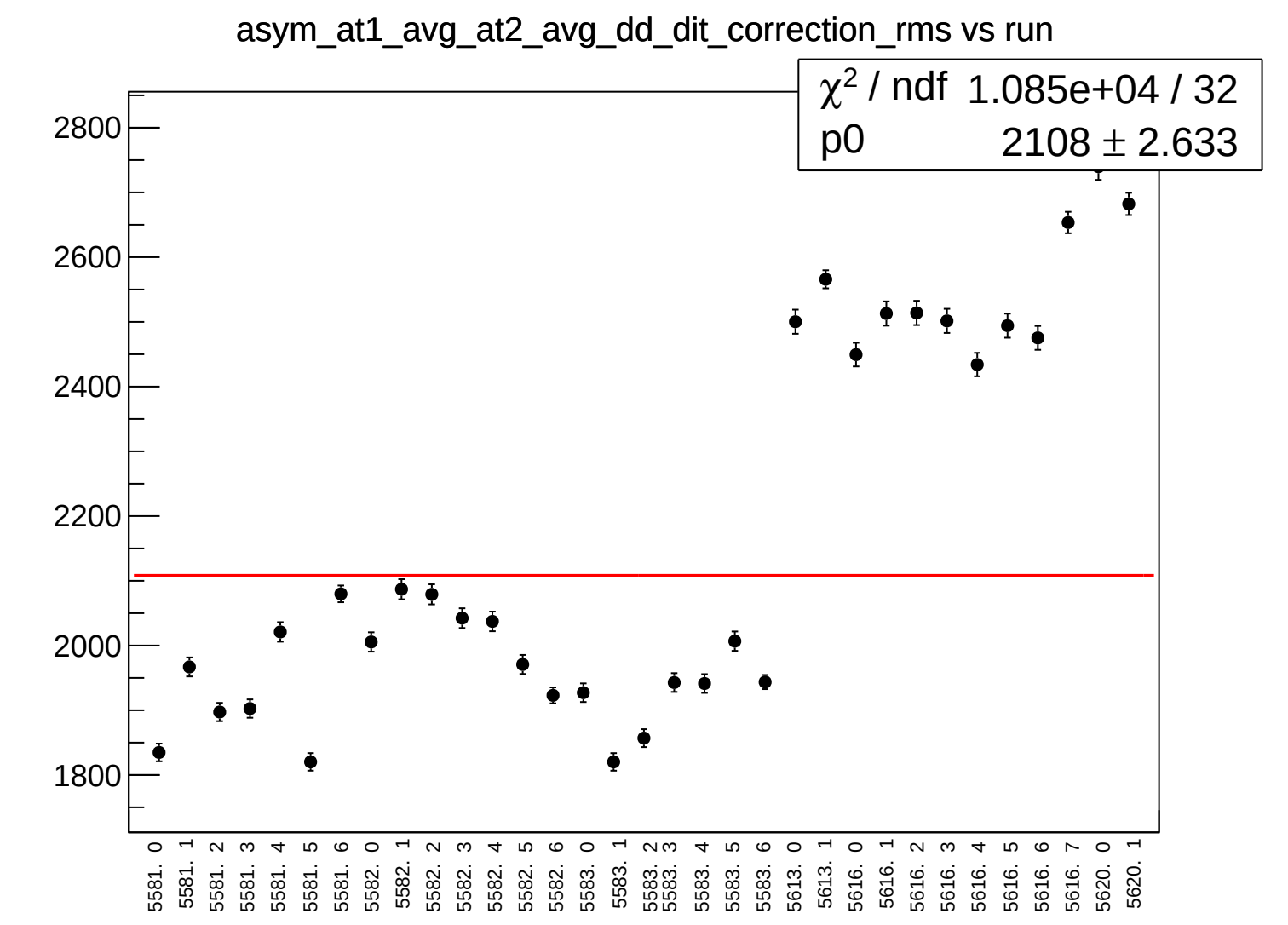

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8515 / 25
p0 2061 ± 2.886
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

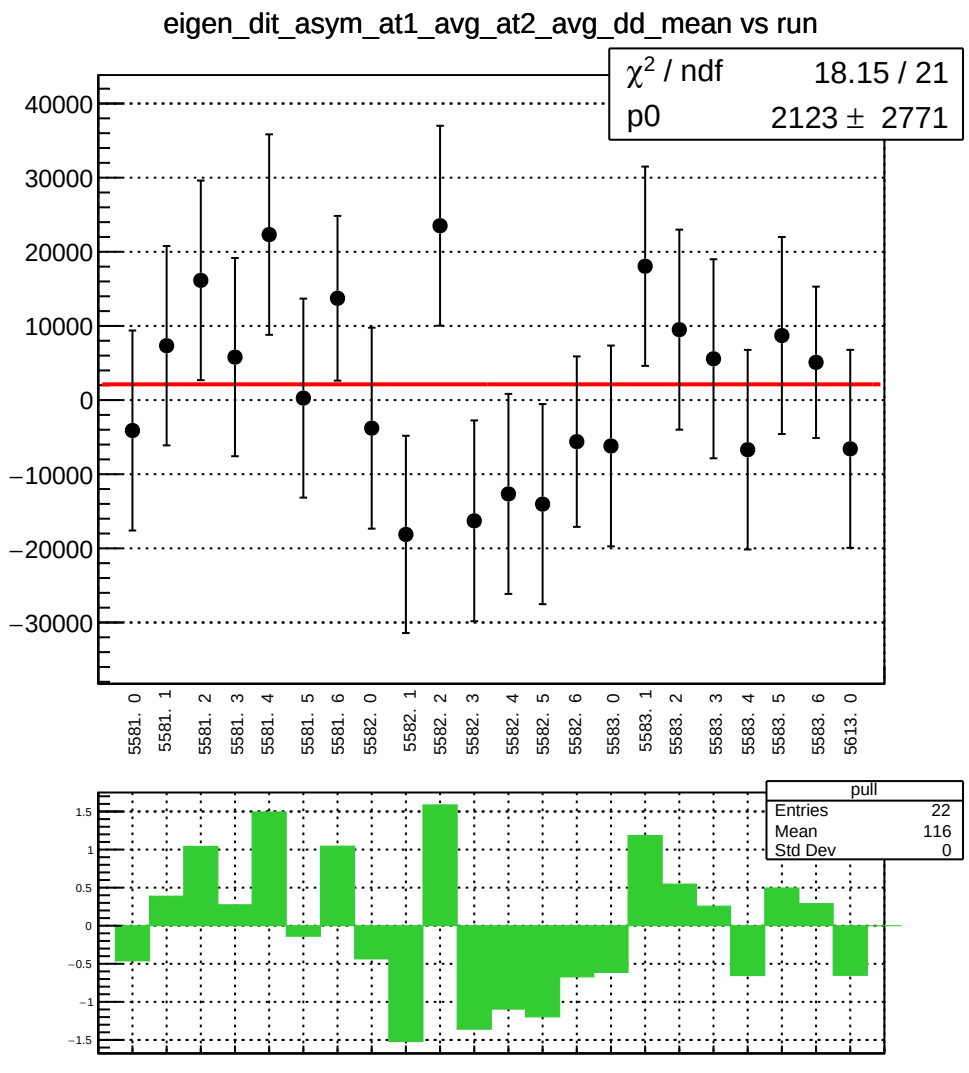

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 18.15 / 21
p0 2123 ± 2771
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 116
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 22
Mean −0.008968
Std Dev 0.9083
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

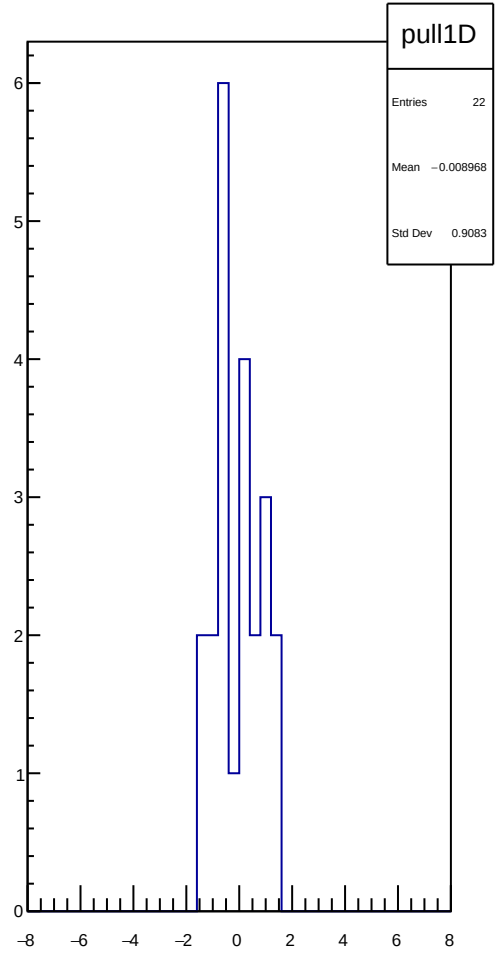

dit_asym_at1_avg_at2_avg_dd_rms vs run
×10^3
χ² / ndf 1.725e+05 / 32
p0 1325 ± 1.914
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

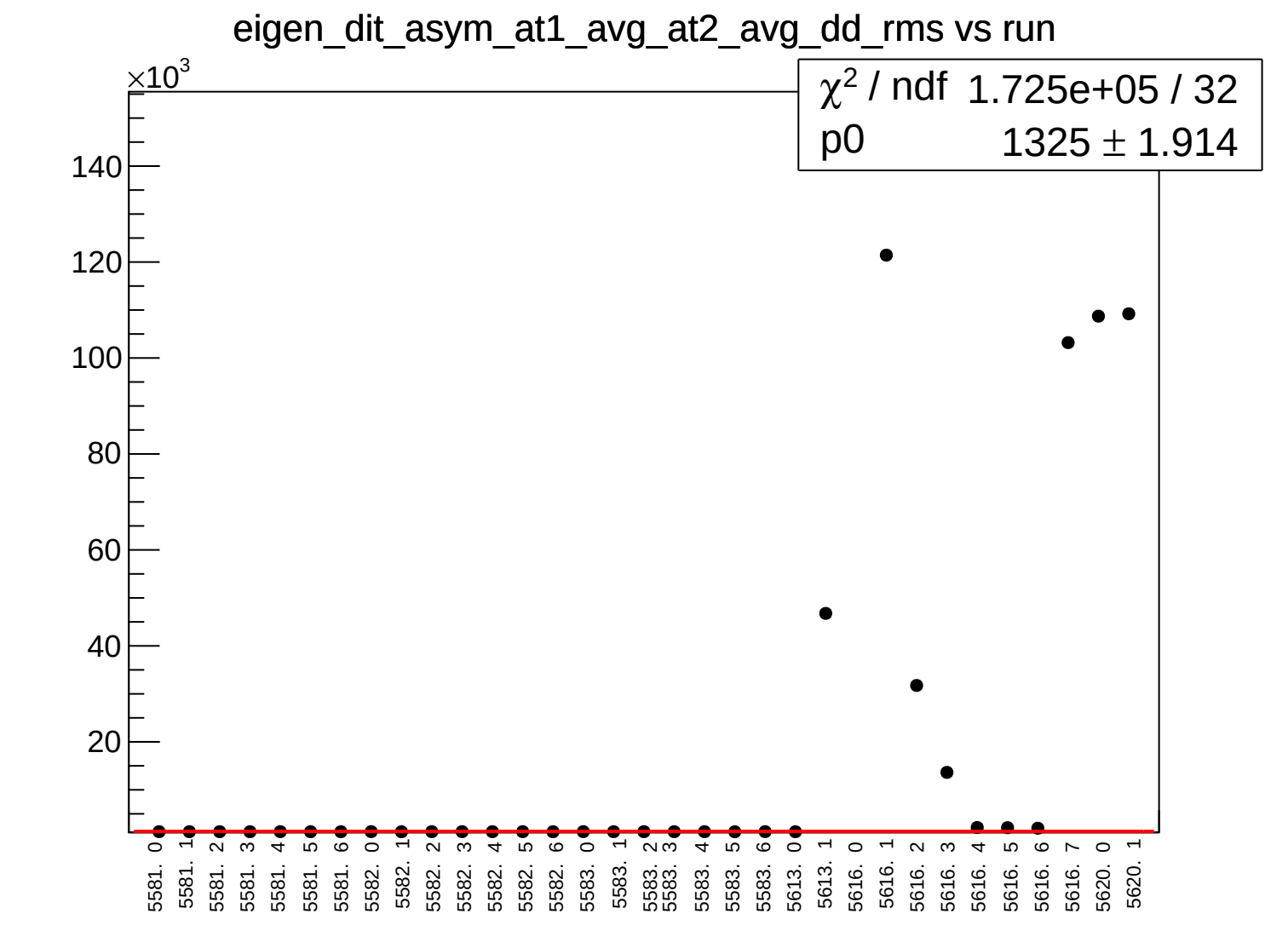

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
χ² / ndf 33.84 / 32
p0 −24.2 ± 3723
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 70.48
Std Dev 0
2
1
0
−1
−2

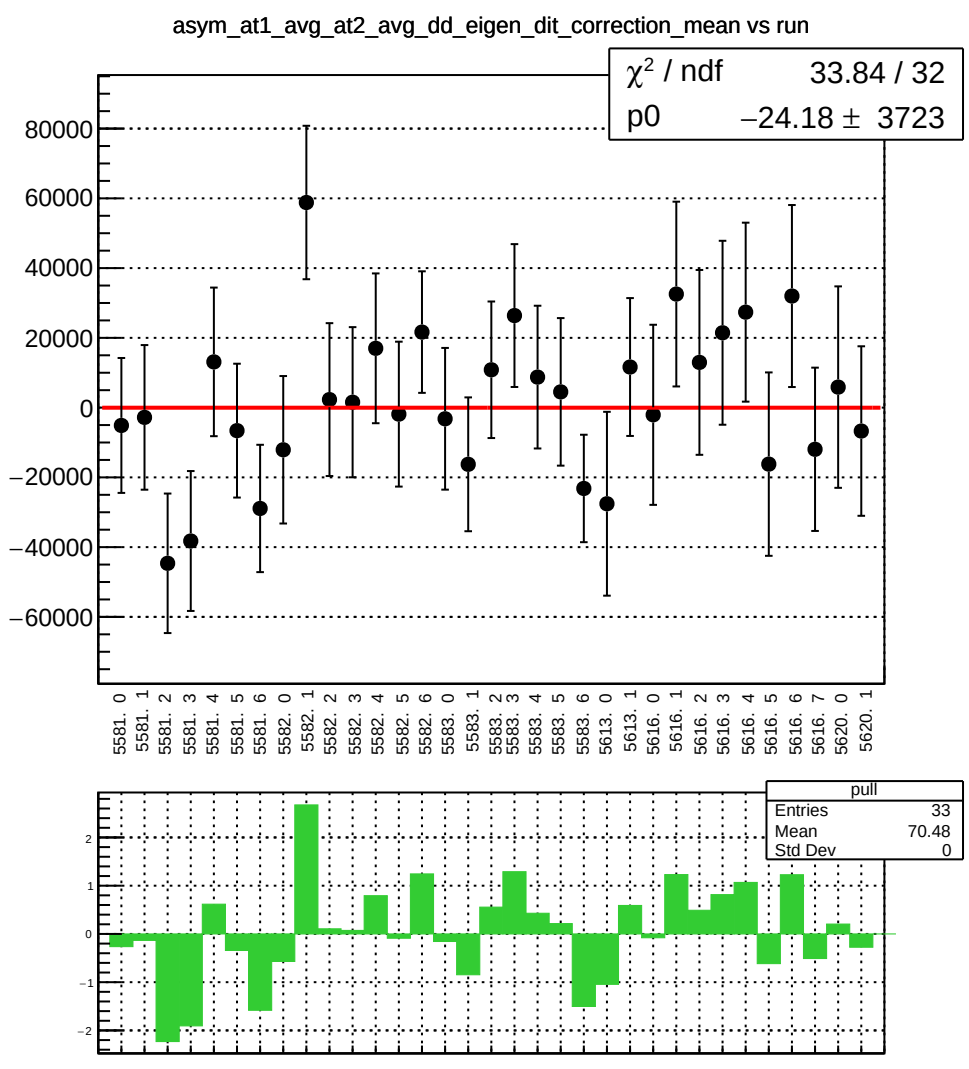

pull1D
Entries 33
Mean 0.04467
Std Dev 1.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

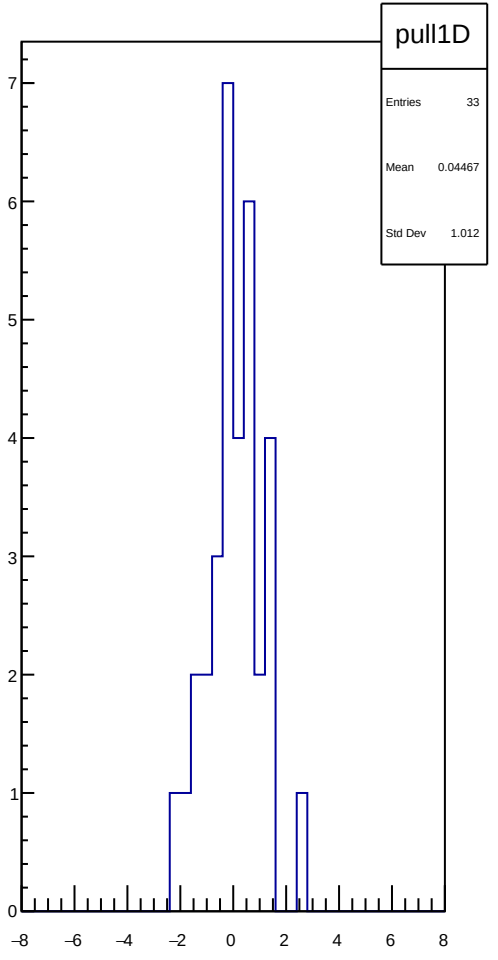

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 32
p0 2108 ± 2.633
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

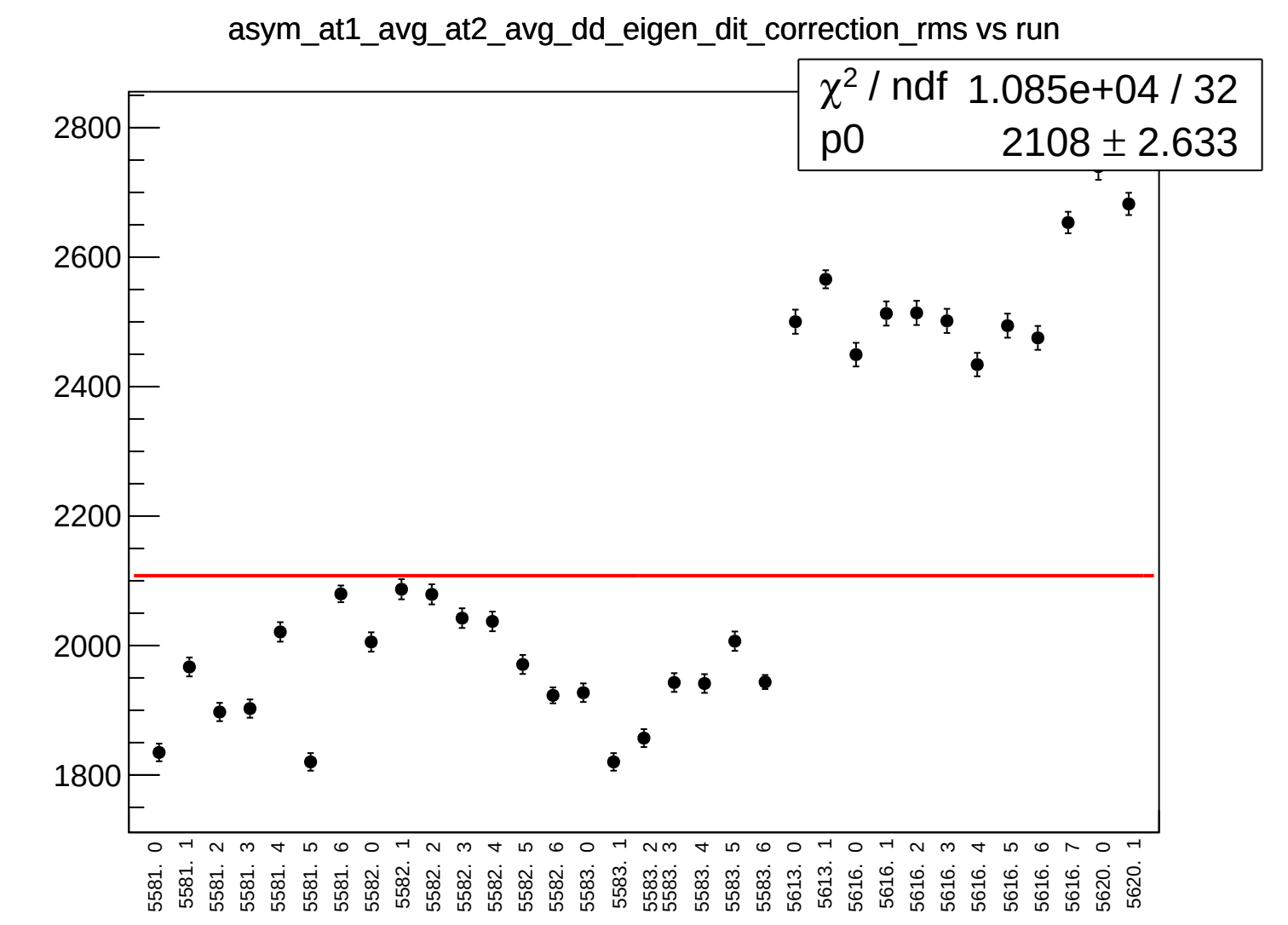

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 18.15 / 21
p0 2123 ± 2771
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 116
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

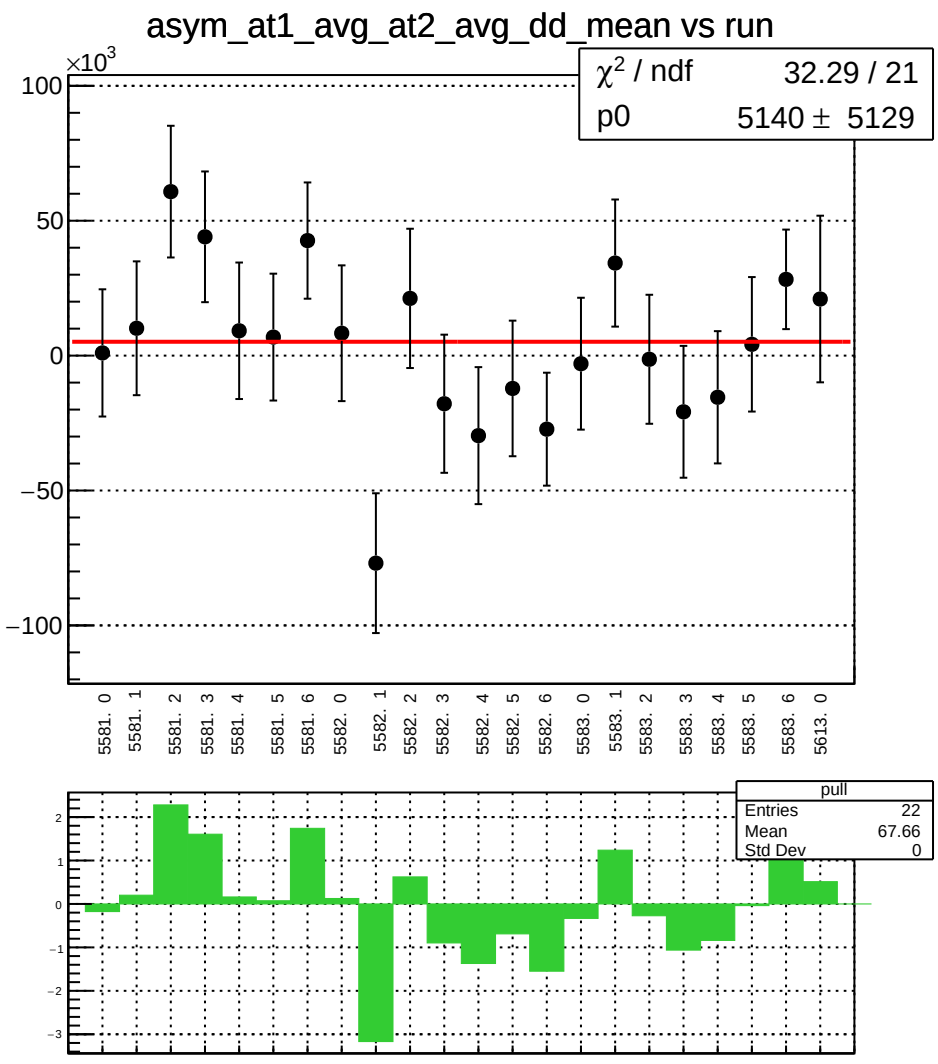

pull1D
Entries 22
Mean −0.008968
Std Dev 0.9083
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

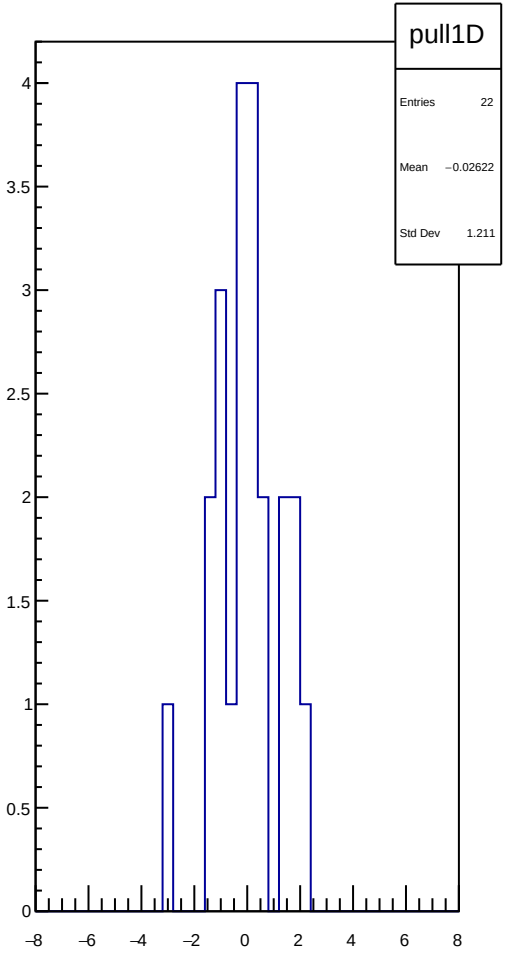

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.725e+05 / 32
p0 1325 ± 1.914
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

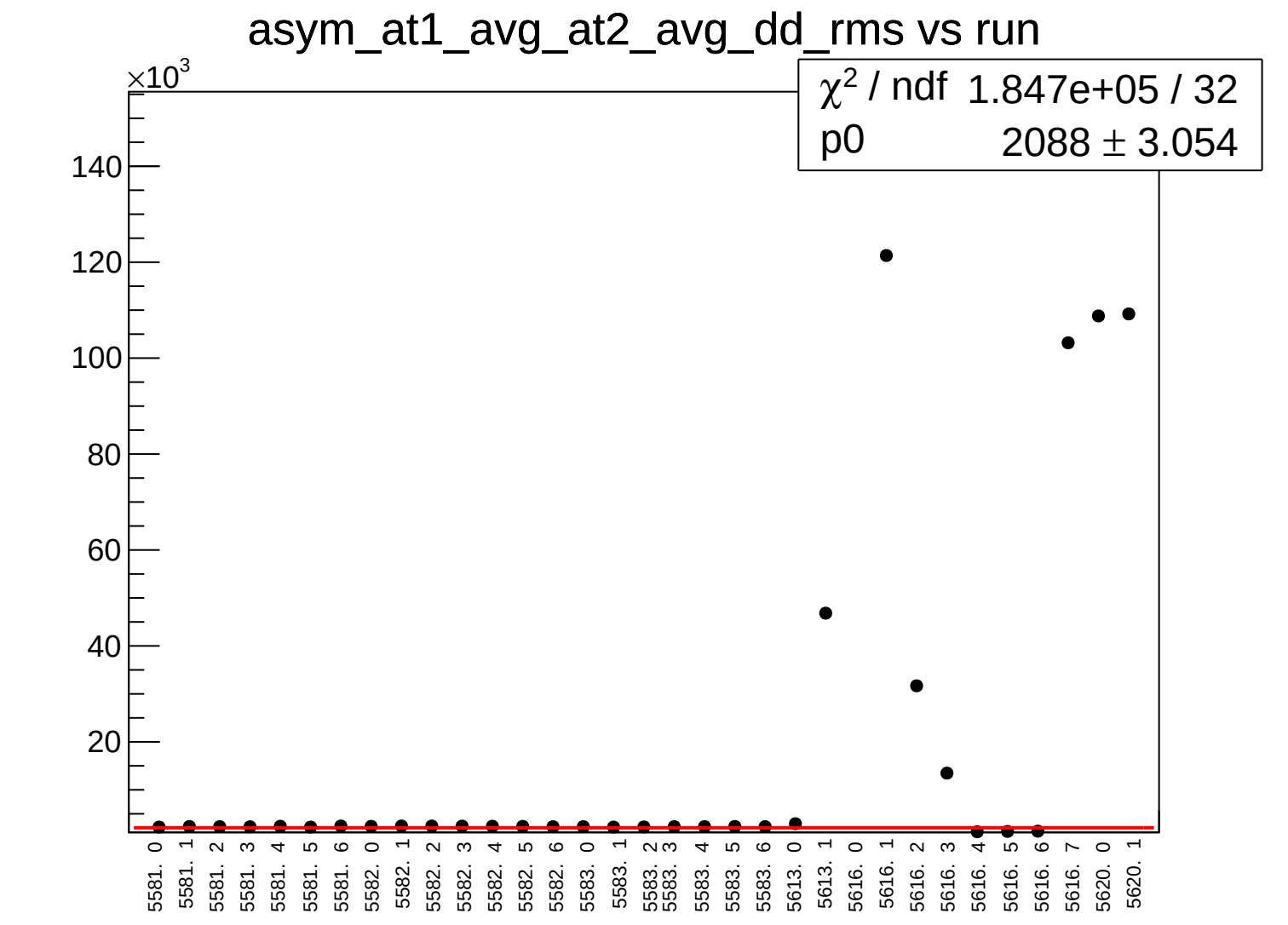

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 33.84 / 32
p0 −24.18 ± 3723
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 70.48
Std Dev 0
2
1
0
−1
−2

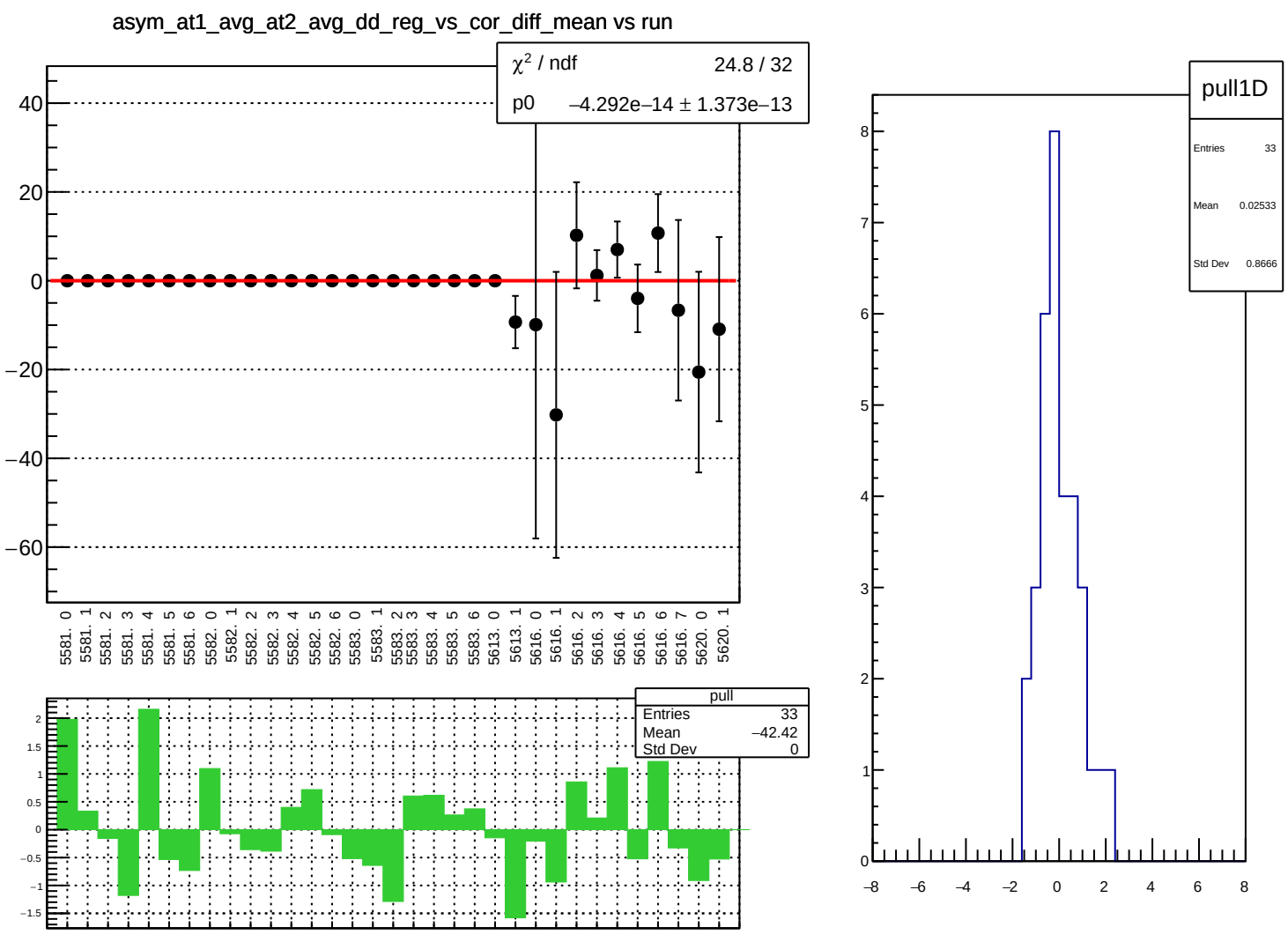

pull1D
Entries 33
Mean 0.04467
Std Dev 1.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

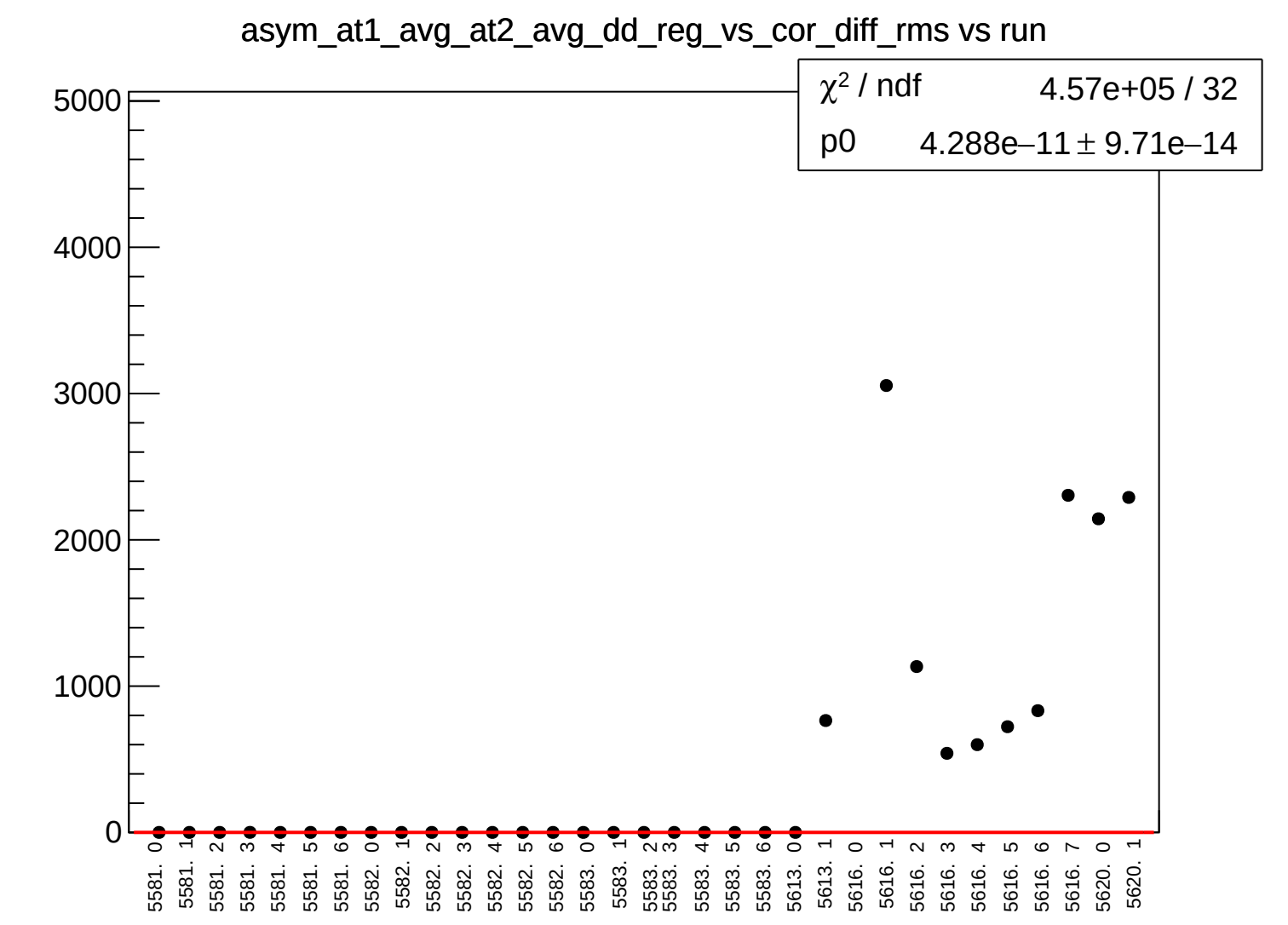

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 32
p0 2108 ± 2.633
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

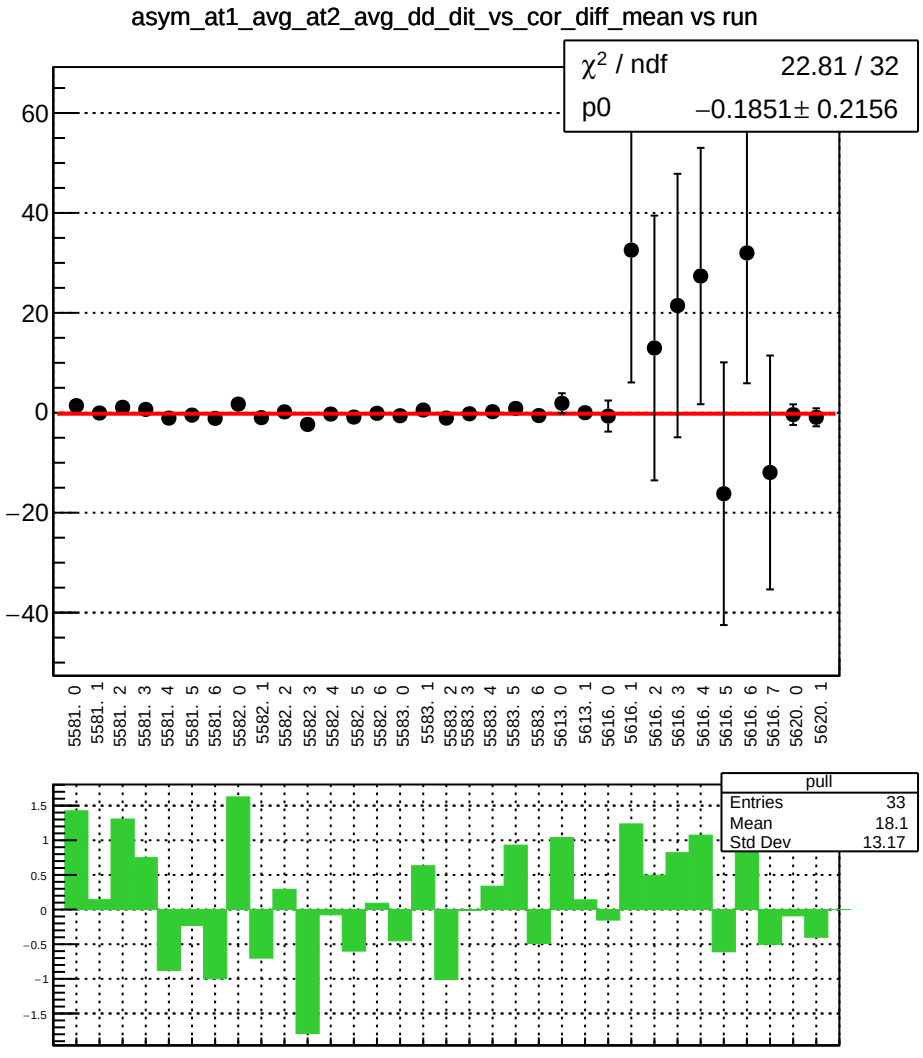

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ^2 / ndf 32.29 / 21
p0 5140 ± 5129
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 67.66
Std Dev 0
2
1
0
−1
−2
−3

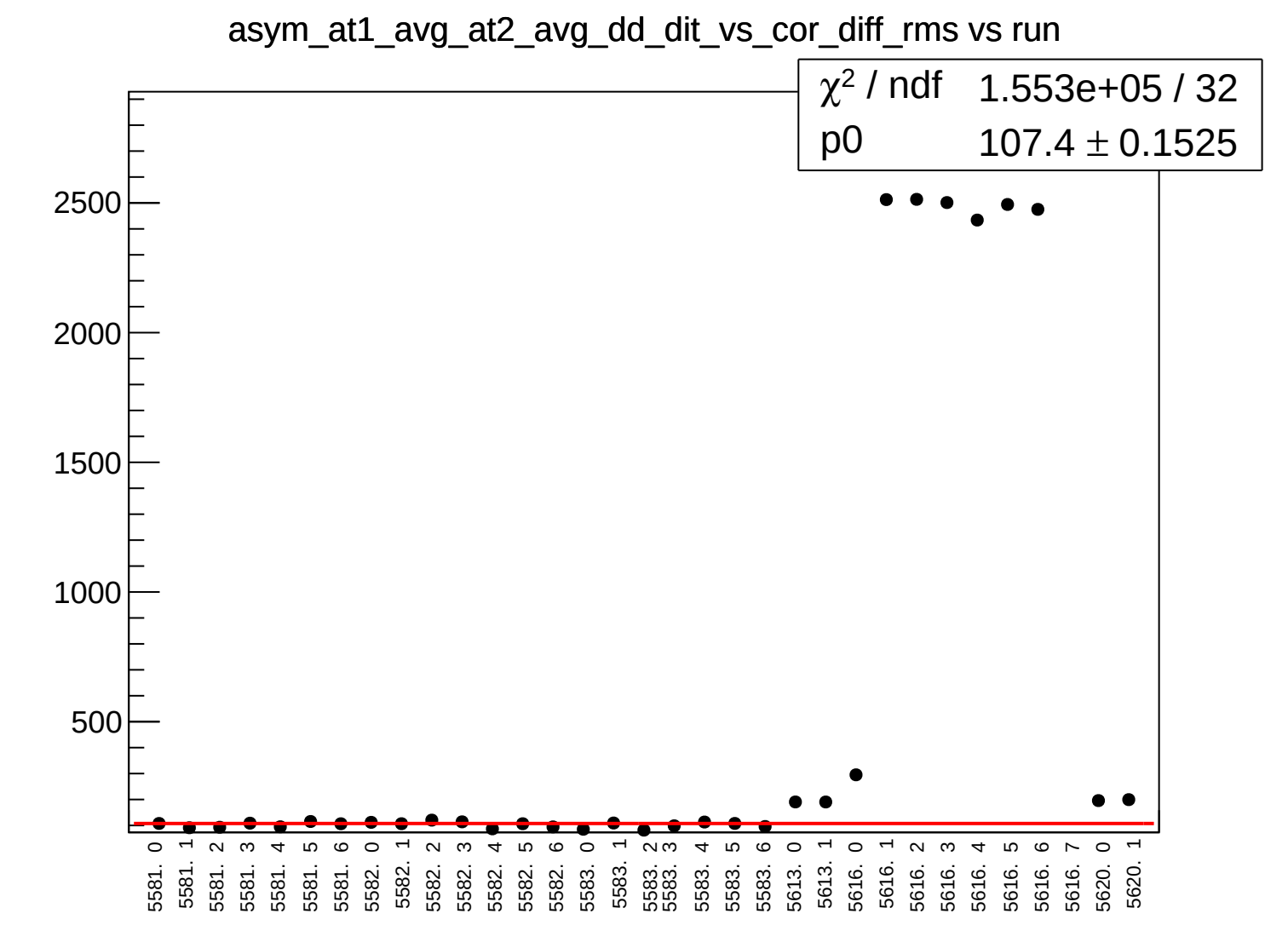

pull1D
Entries 22
Mean −0.02622
Std Dev 1.211
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

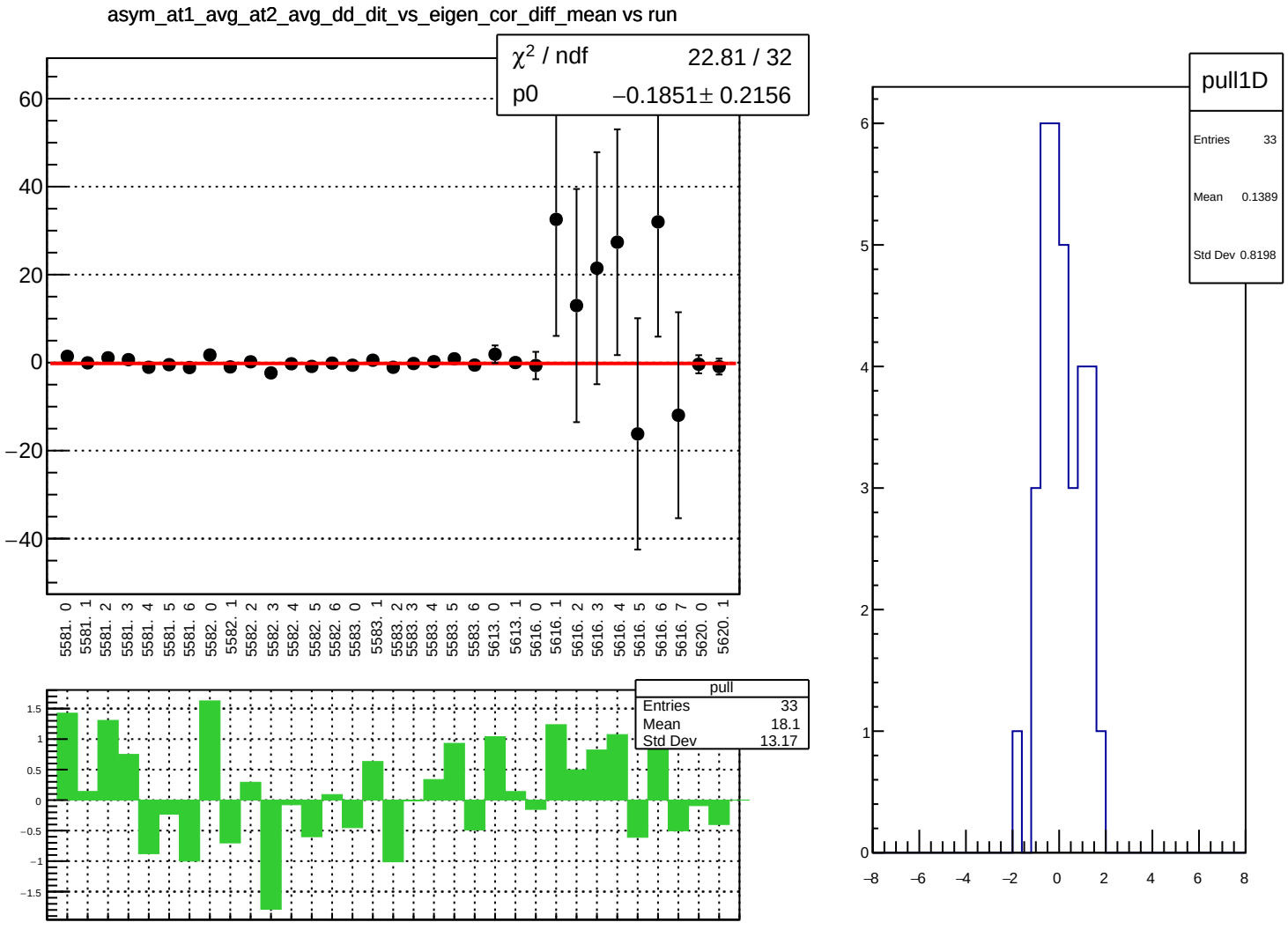

asym_at1_avg_at2_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.847e+05 / 32
p0 2088 ± 3.054
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

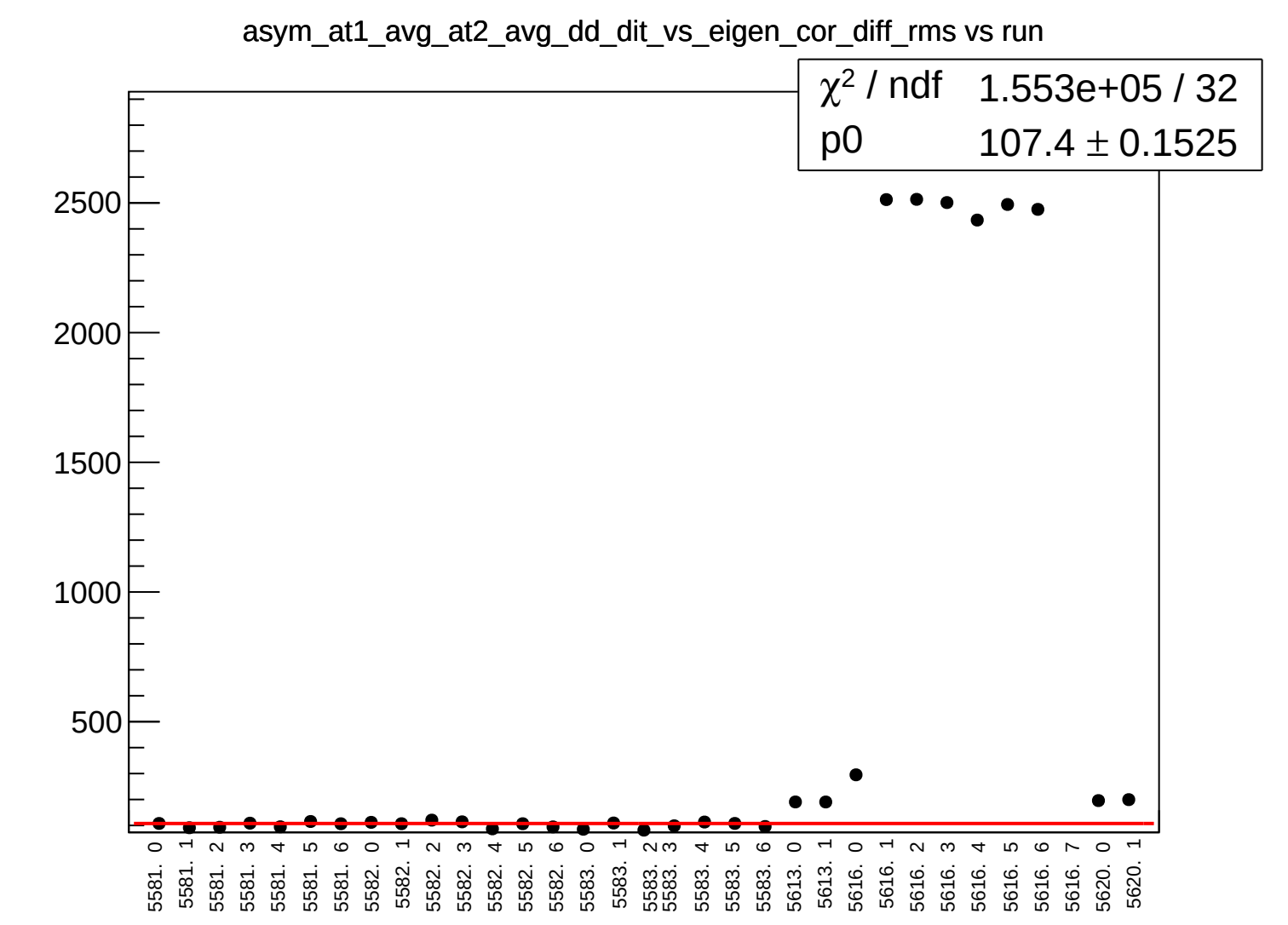

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.8 / 32
p0 −4.292e−14 ± 1.373e−13
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −42.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.02533
Std Dev 0.8666
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

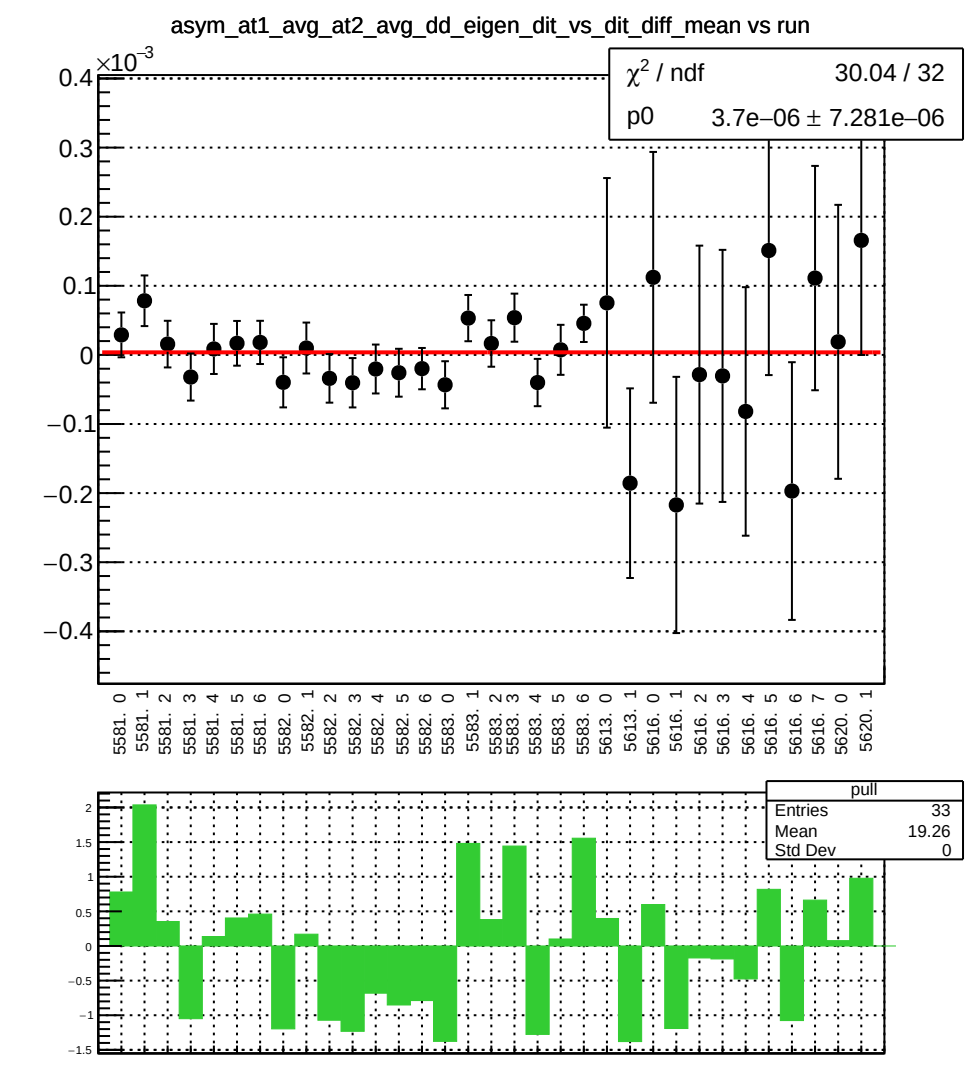

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.57e+05 / 32
p0 4.288e−11 ± 9.71e−14
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

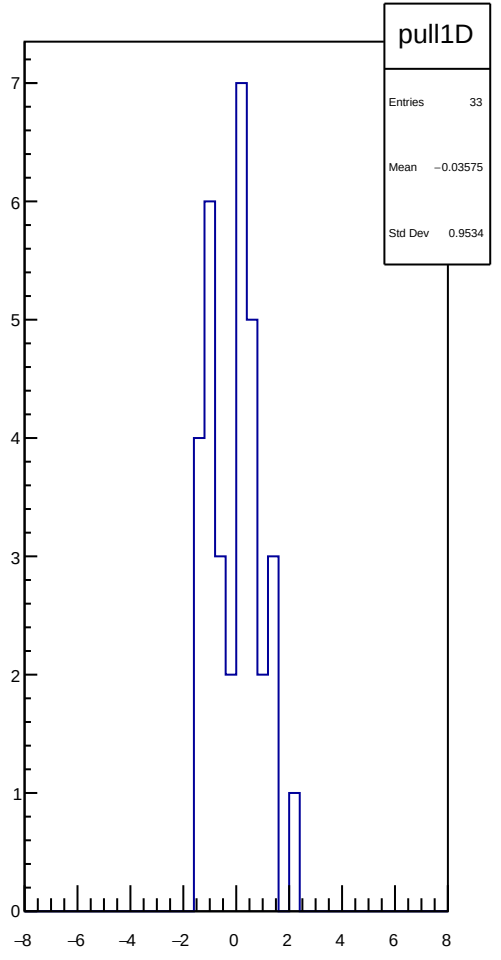

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 22.81 / 32
p0 −0.1851± 0.2156
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.1
Std Dev 13.17
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1389
Std Dev 0.8198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

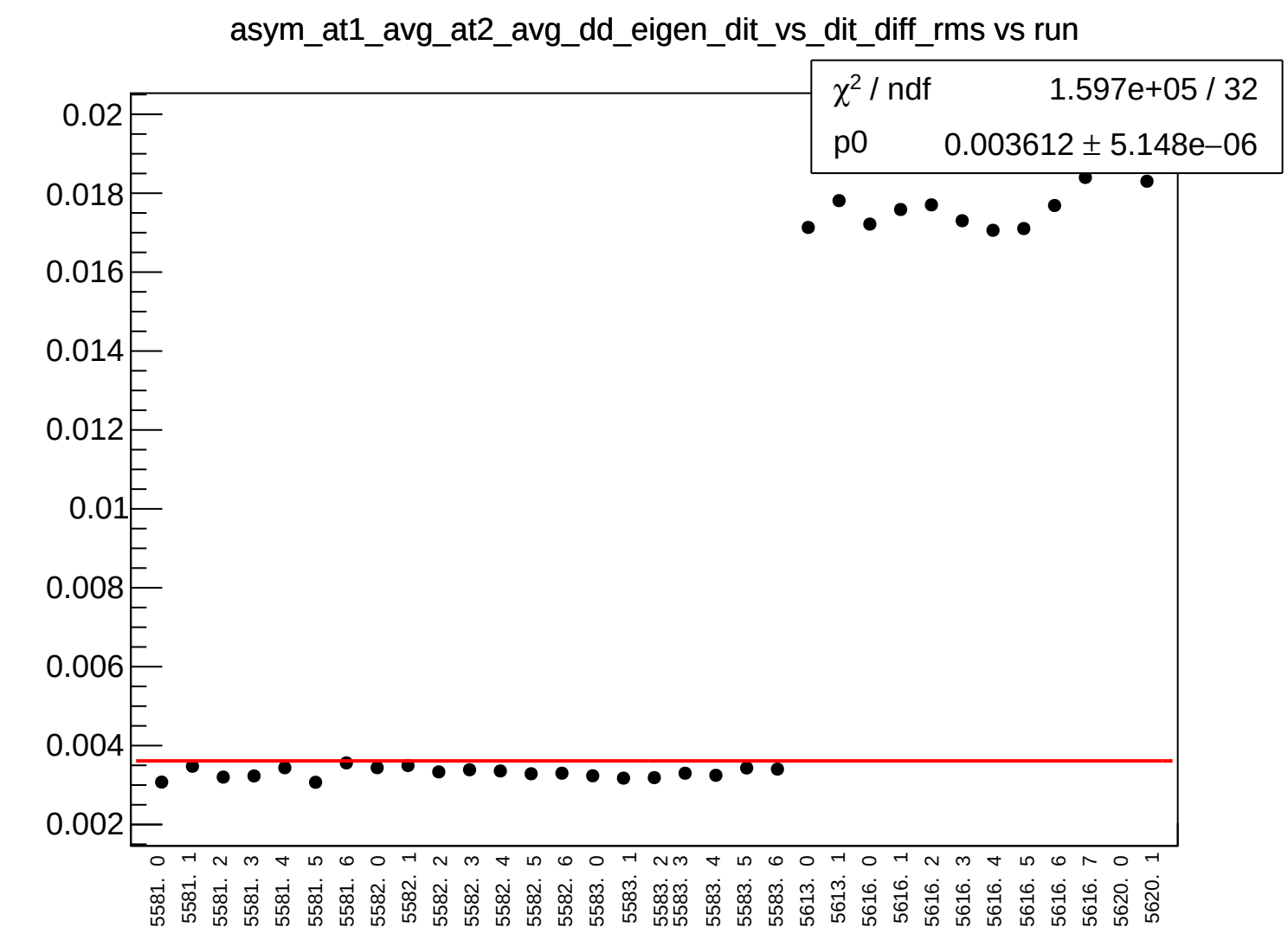

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 32
p0 107.4 ± 0.1525
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

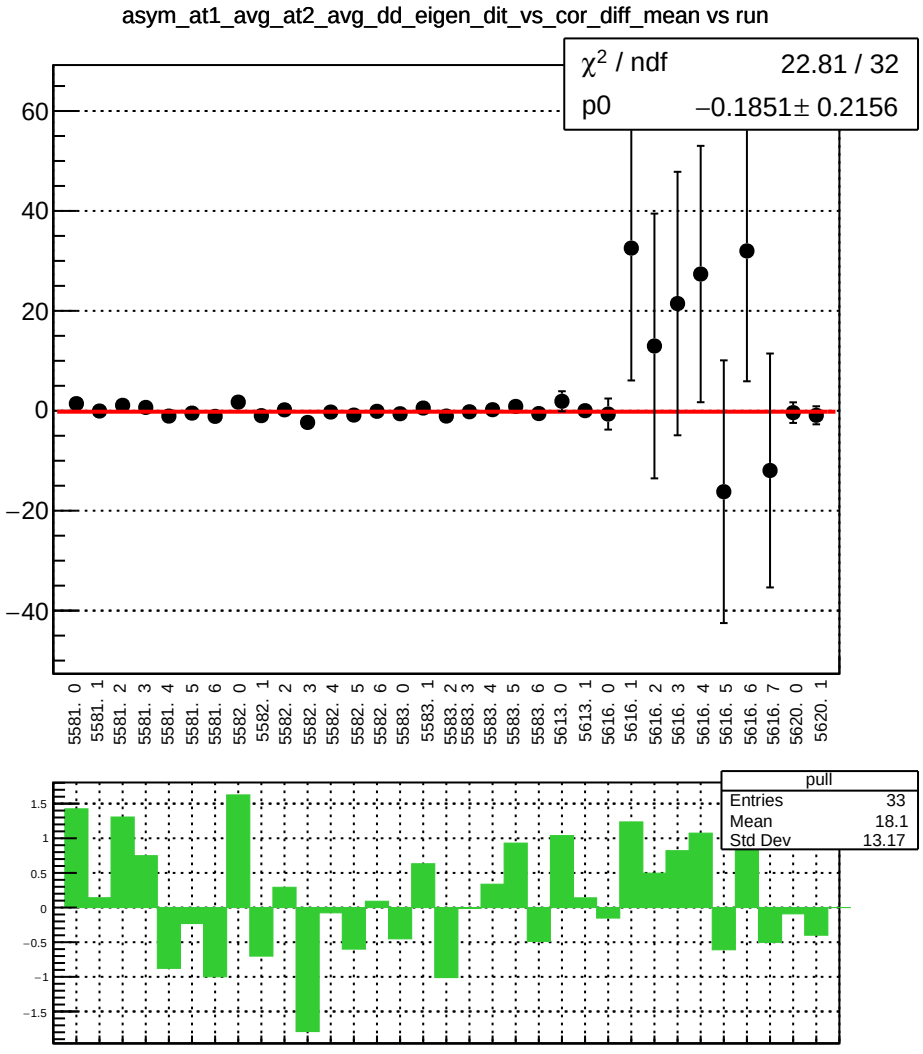

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.81 / 32
p0 −0.1851± 0.2156
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.1
Std Dev 13.17
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1389
Std Dev 0.8198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

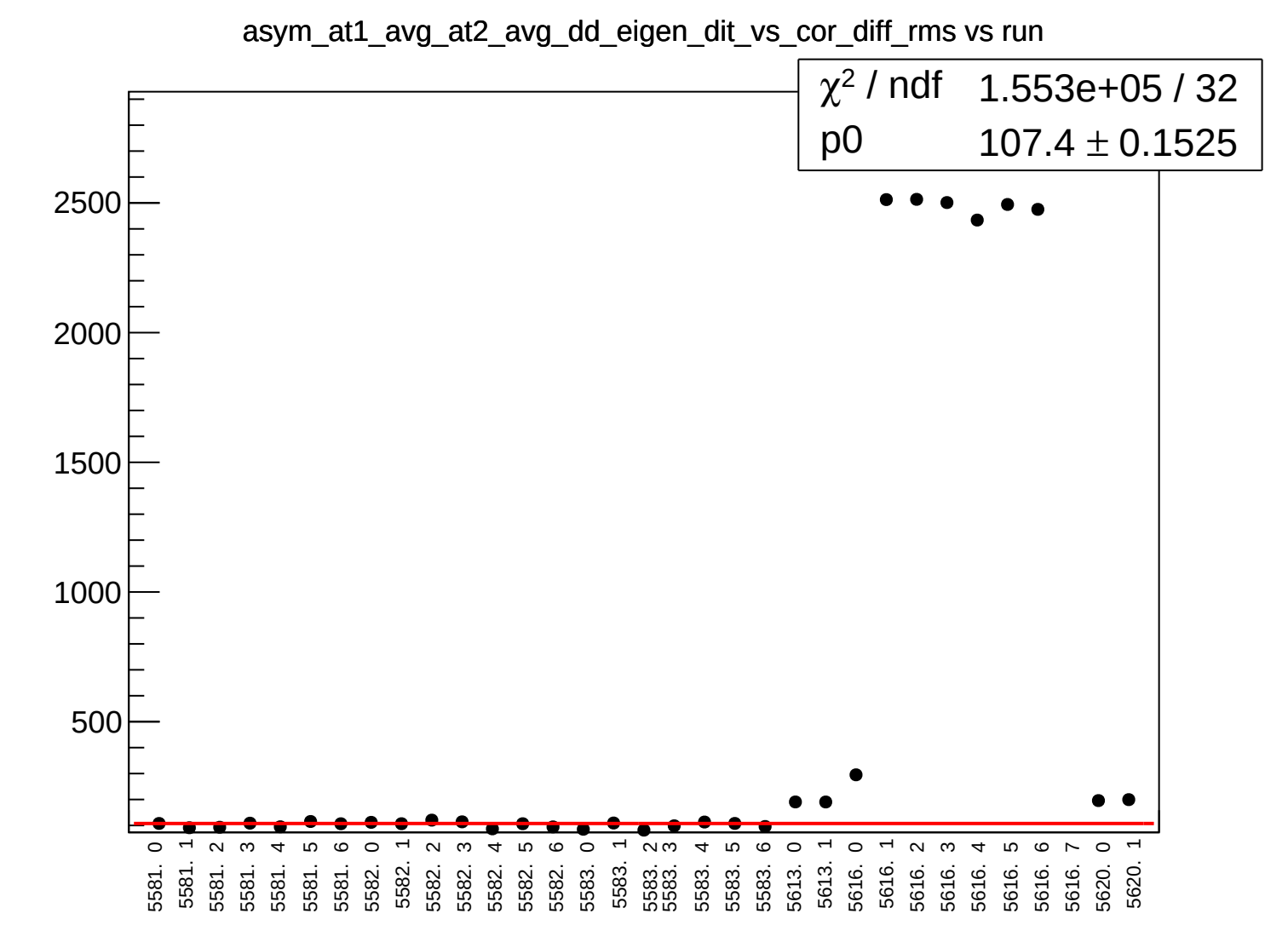

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 32
p0 107.4 ± 0.1525
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

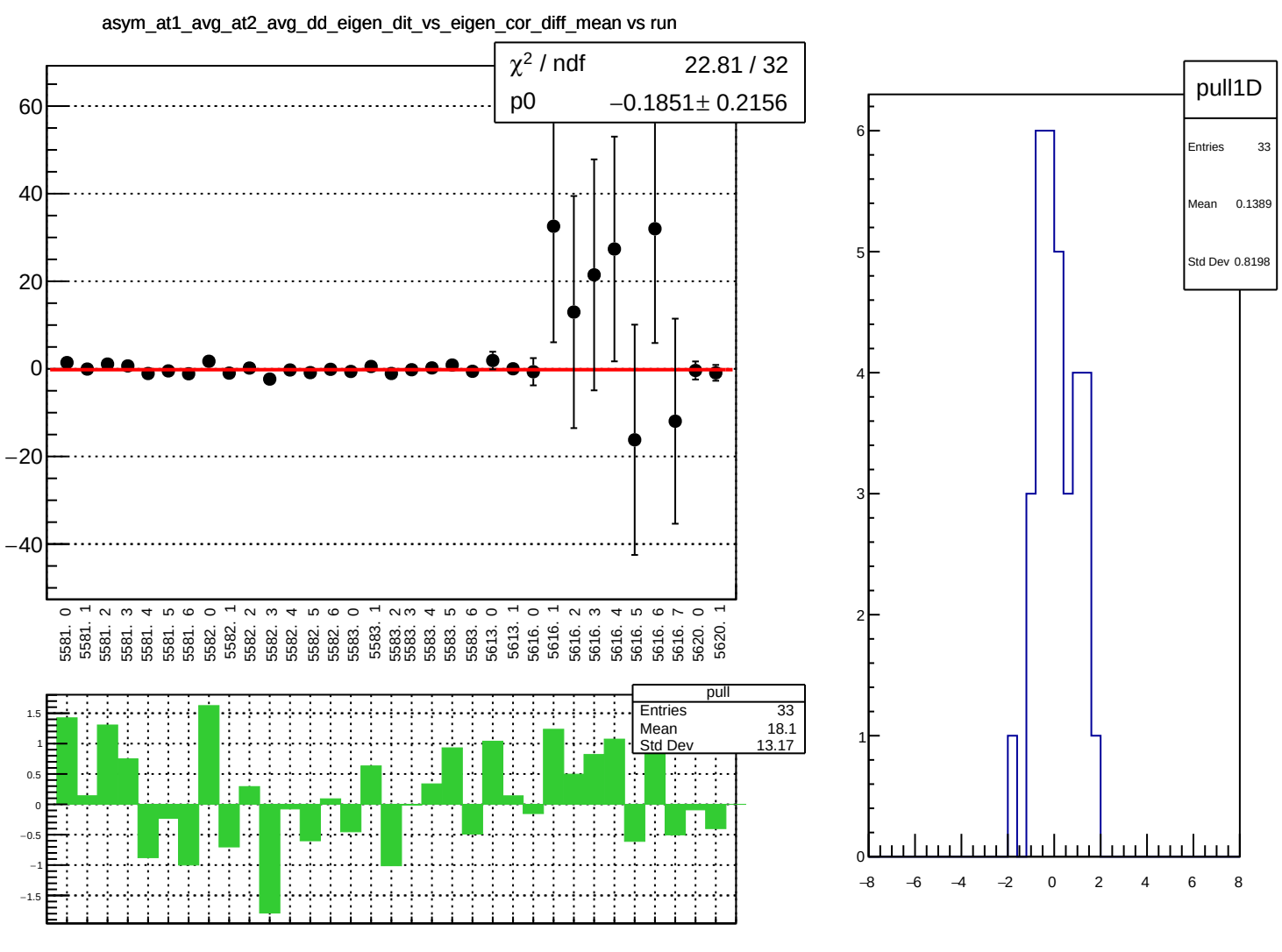

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.04 / 32
p0 3.7e−06 ± 7.281e−06
pull
Entries 33
Mean 19.26
Std Dev 0

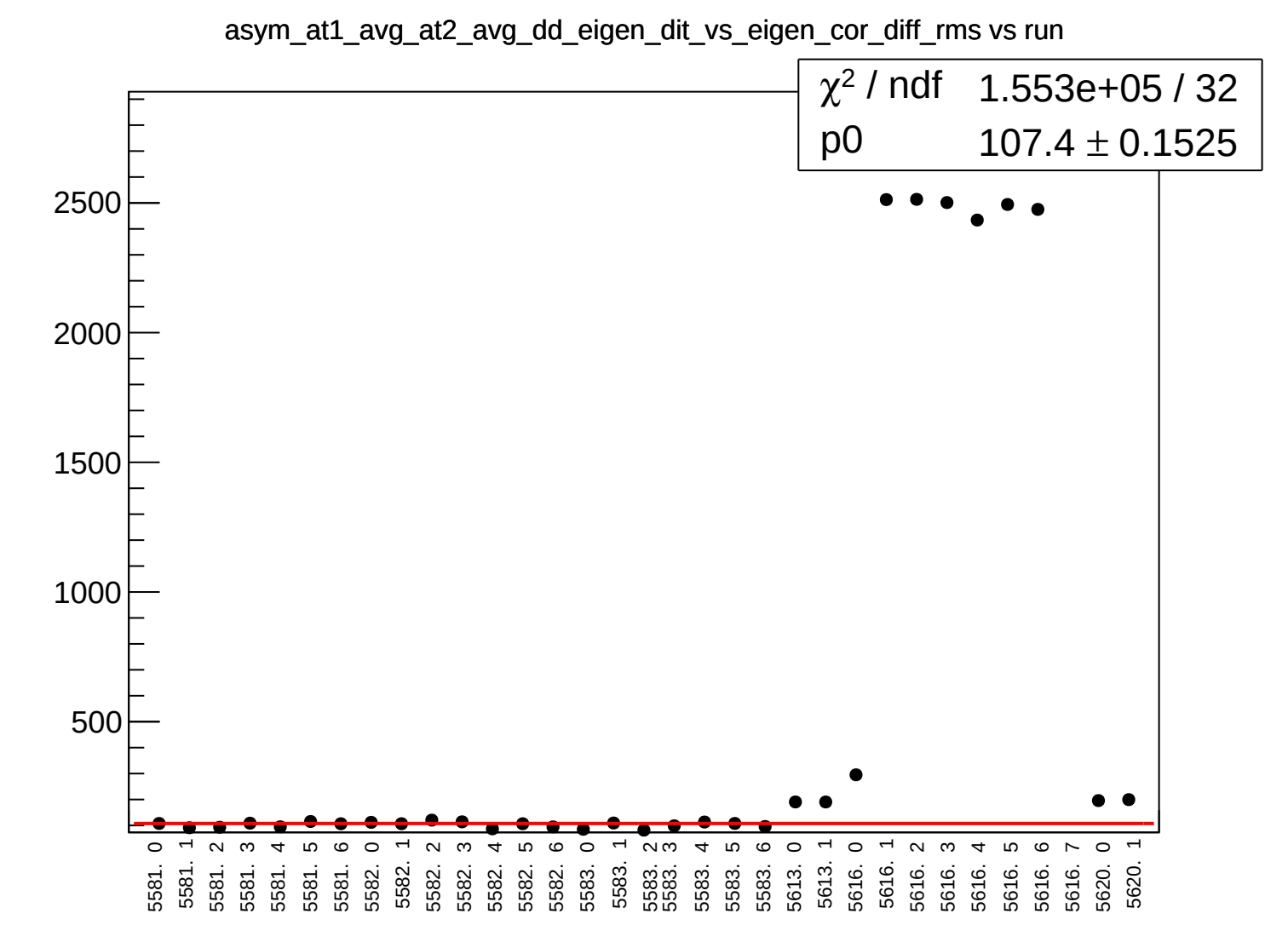

pull1D
Entries 33
Mean −0.03575
Std Dev 0.9534

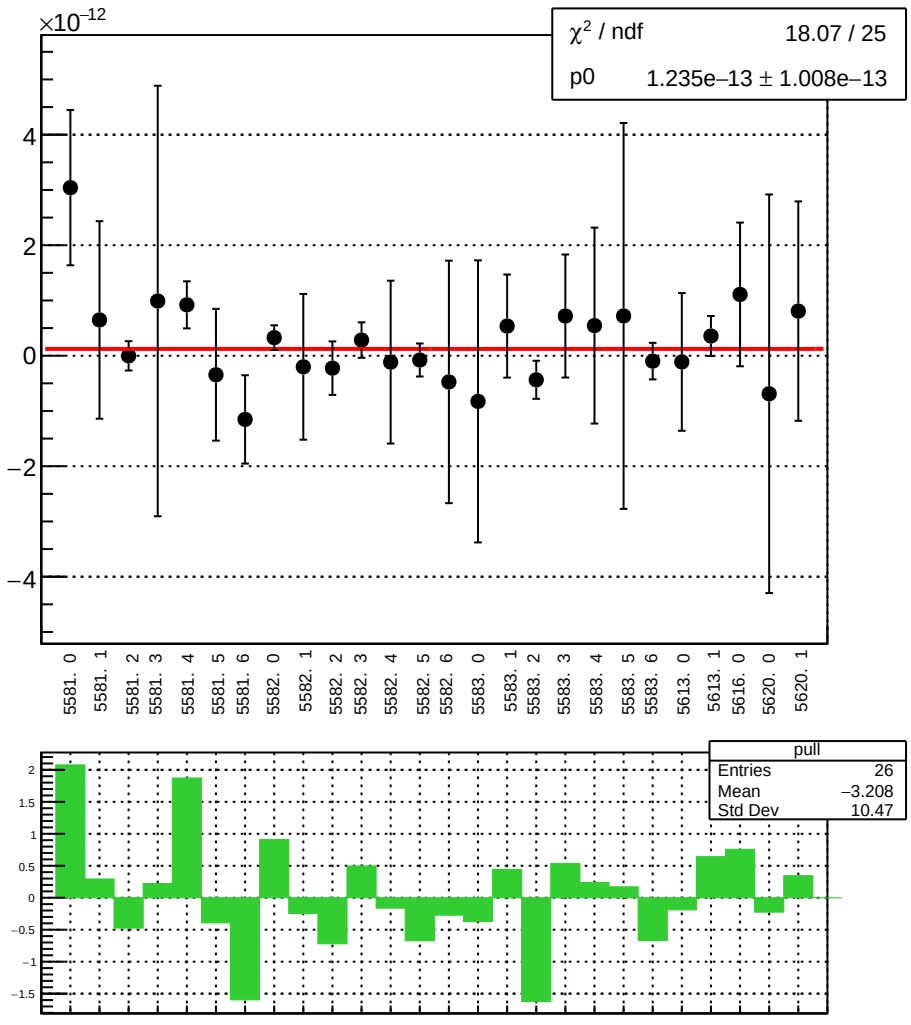

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.597e+05 / 32
p0 0.003612 ± 5.148e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

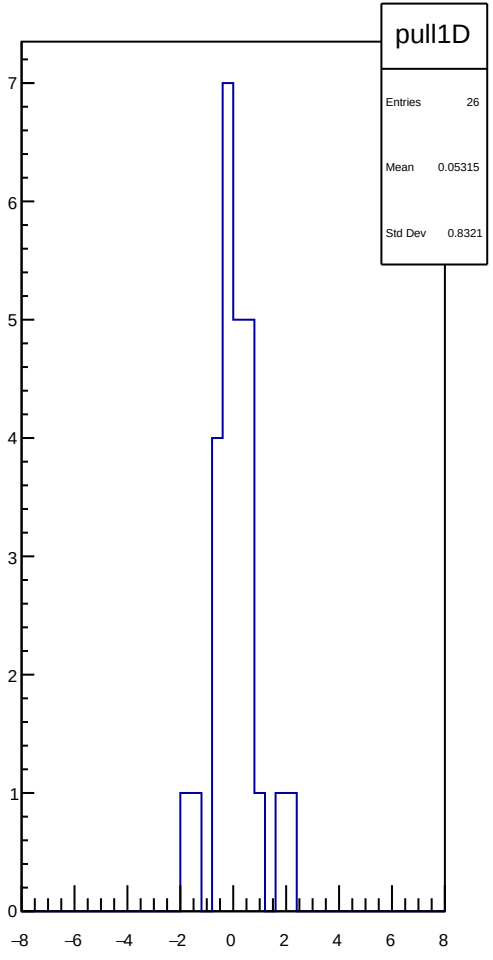

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.81 / 32
p0 −0.1851± 0.2156
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.1
Std Dev 13.17
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1389
Std Dev 0.8198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

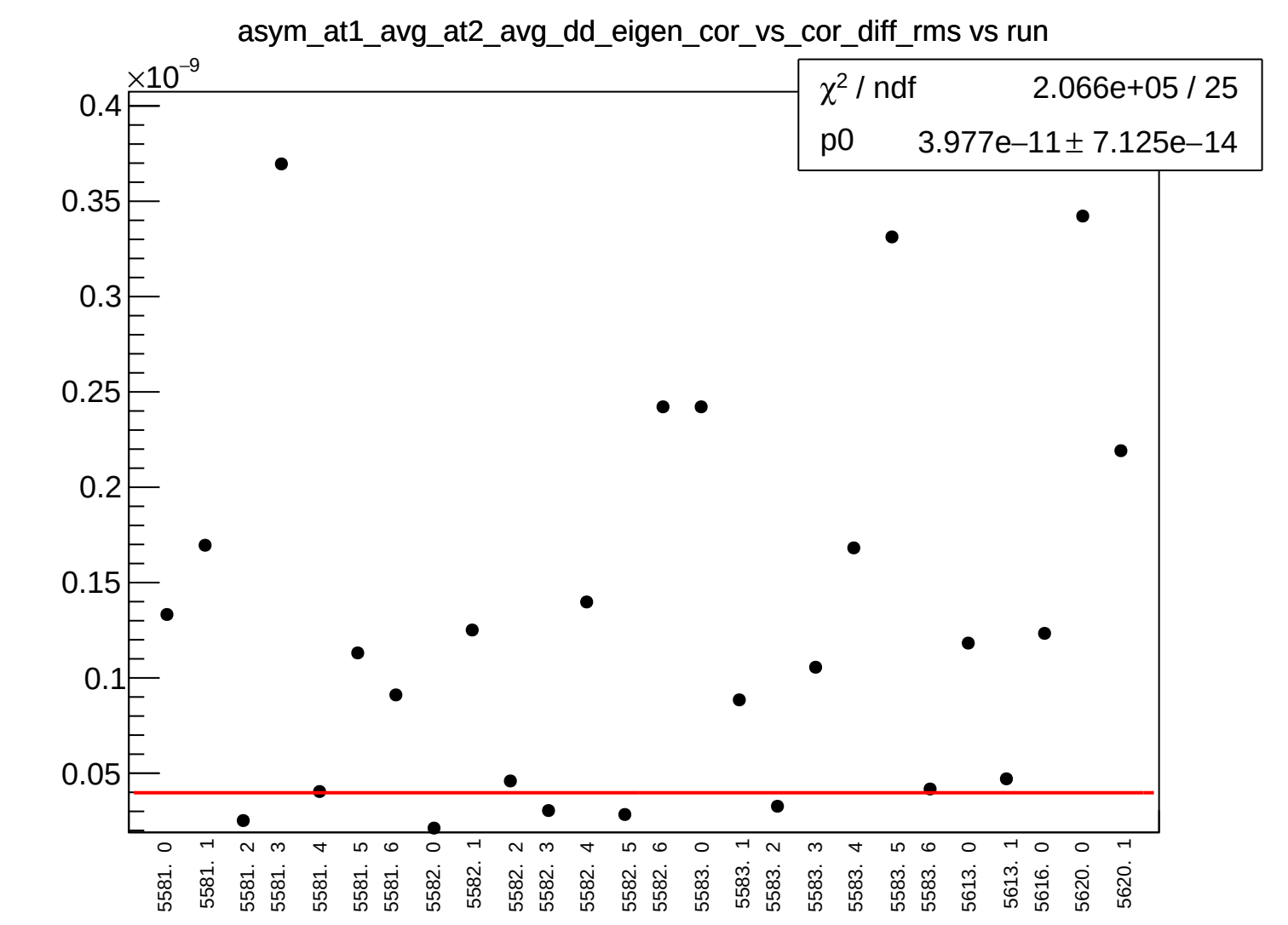

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 32
p0 107.4 ± 0.1525
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

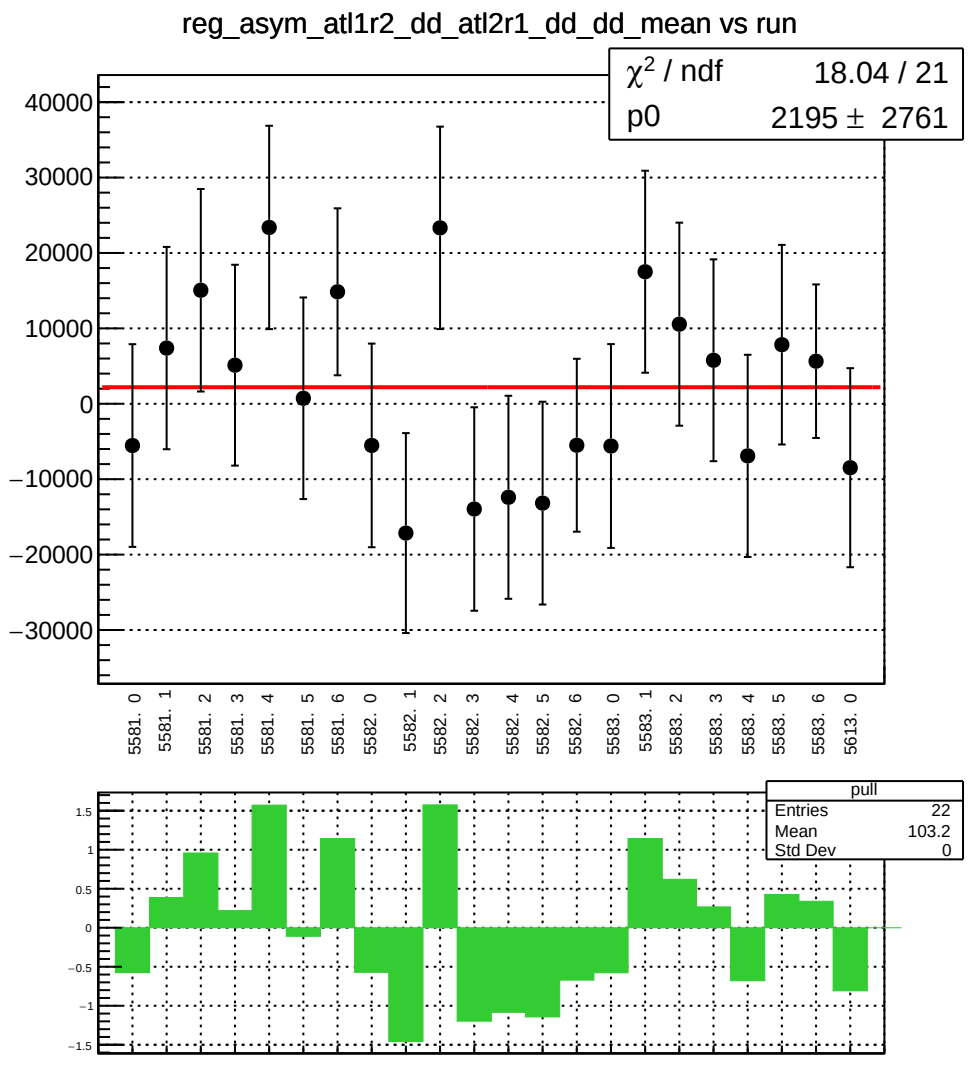

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.81 / 32
p0 −0.1851± 0.2156
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.1
Std Dev 13.17
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1389
Std Dev 0.8198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

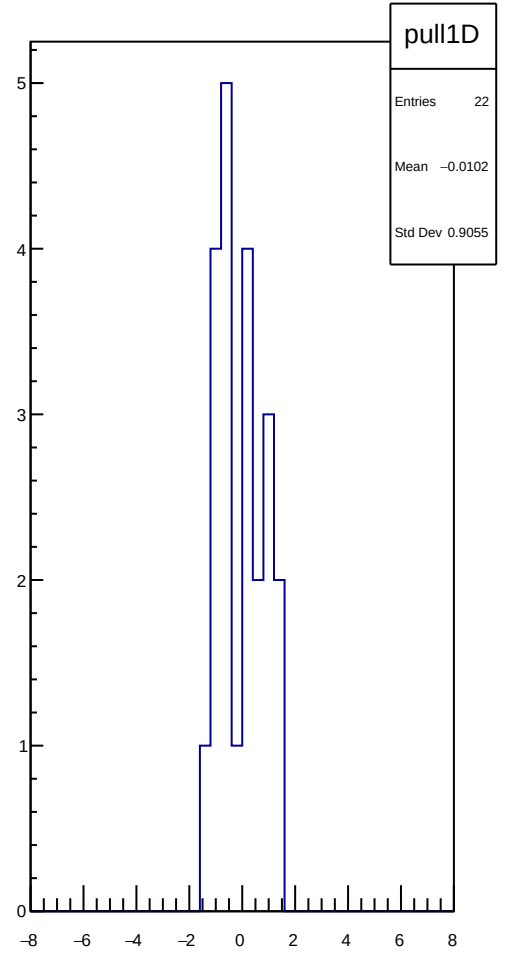

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 32
p0 107.4 ± 0.1525
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

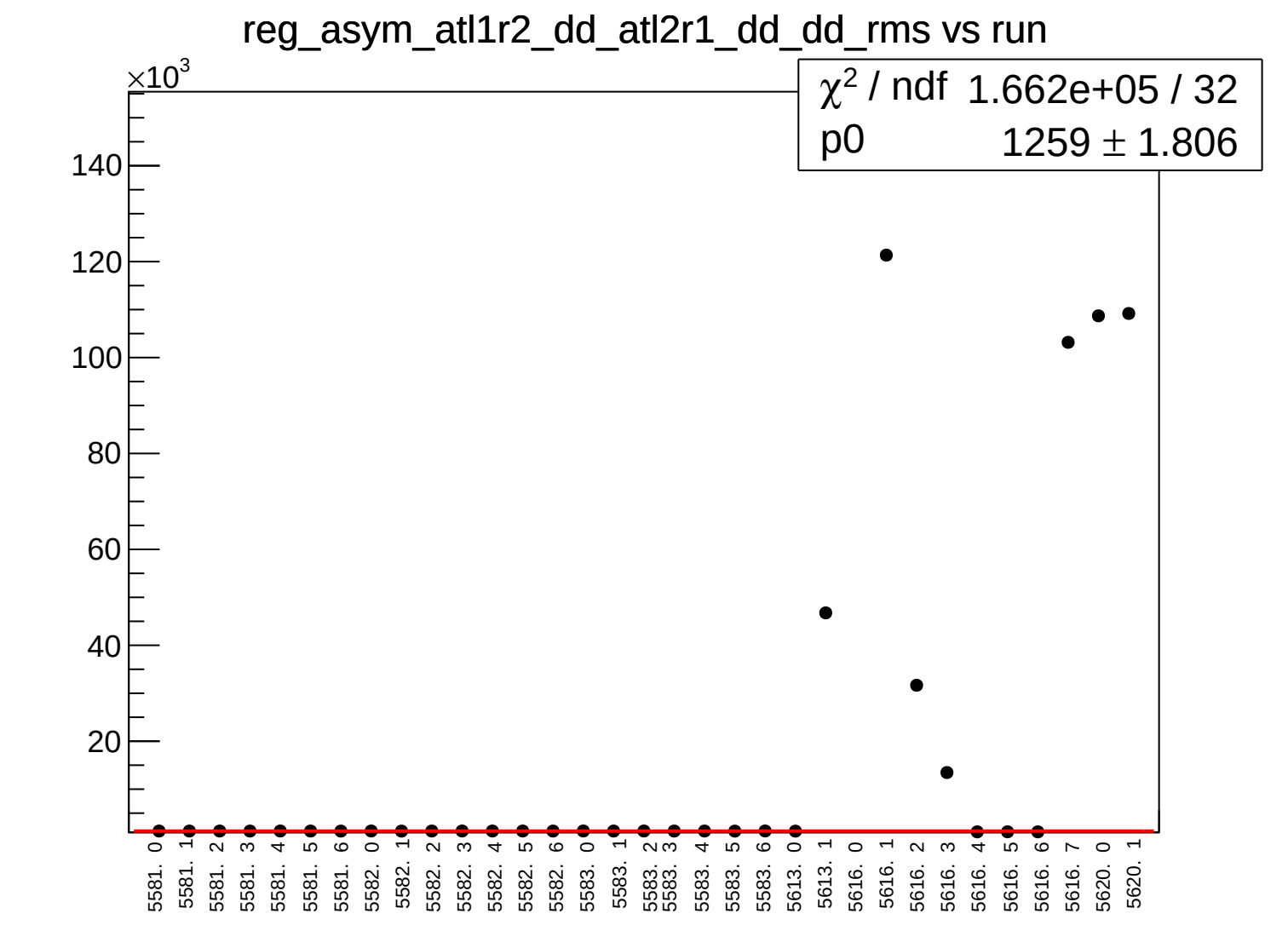

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 18.07 / 25
p0 1.235e−13 ± 1.008e−13
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −3.208
Std Dev 10.47
2
1.5
1
0.5
0
−0.5
−1
−1.5

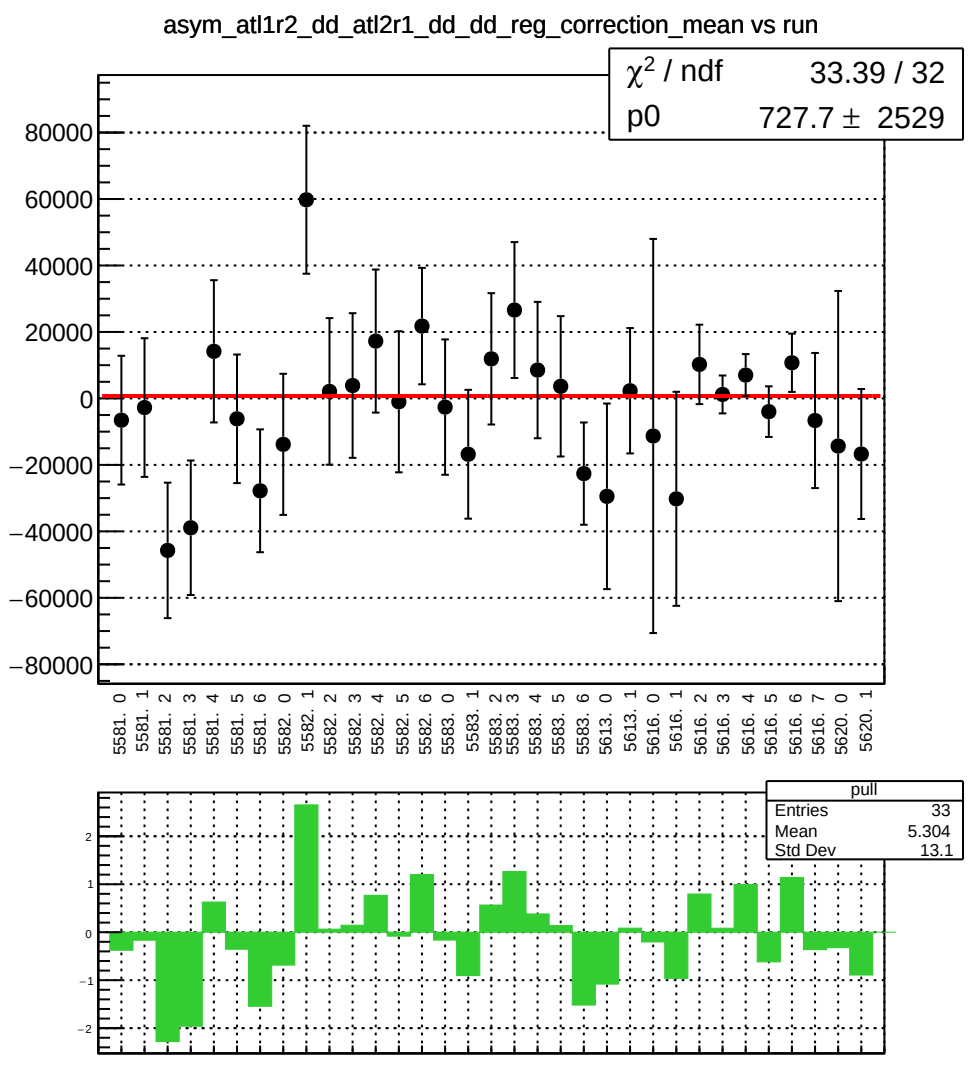

pull1D
Entries 26
Mean 0.05315
Std Dev 0.8321
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

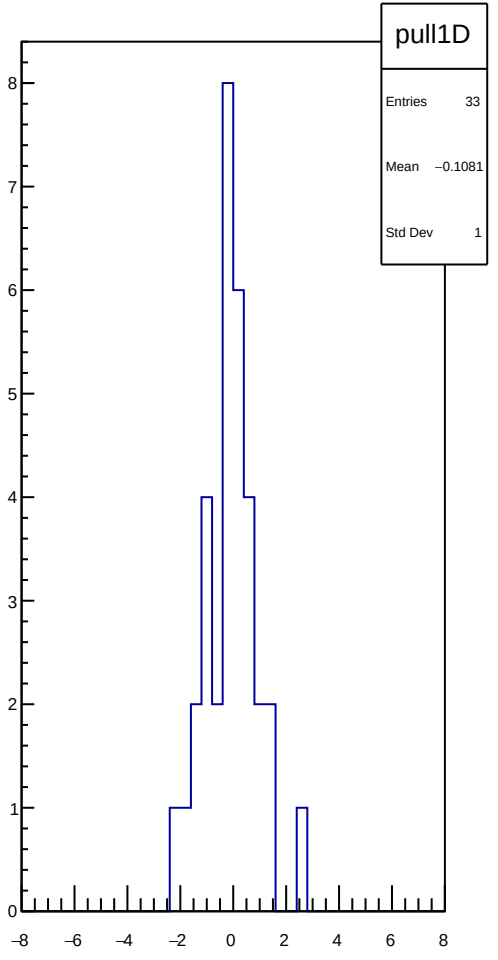

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.066e+05 / 25
p0 3.977e−11 ± 7.125e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

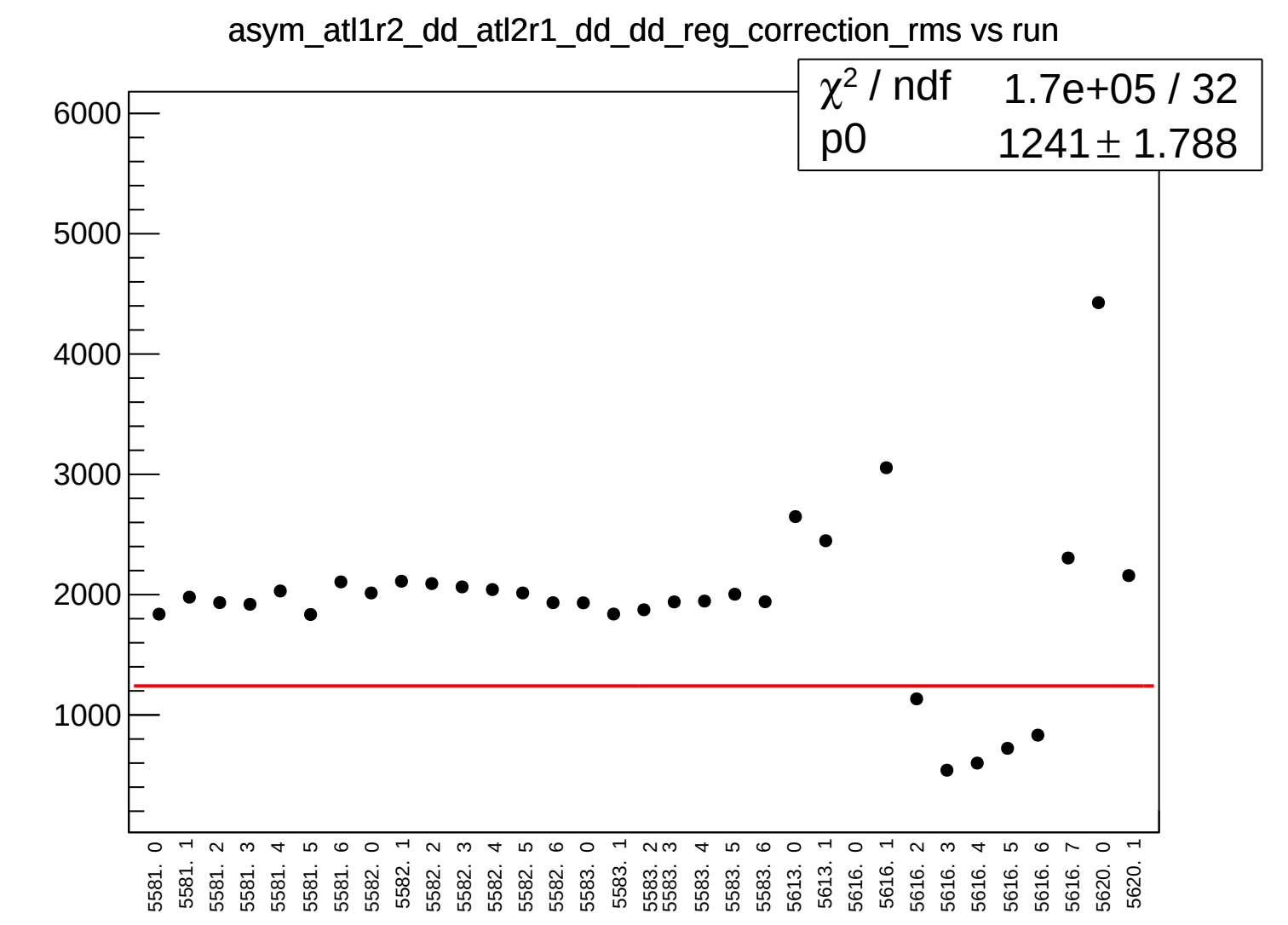

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 18.04 / 21
p0 2195 ± 2761
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 103.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

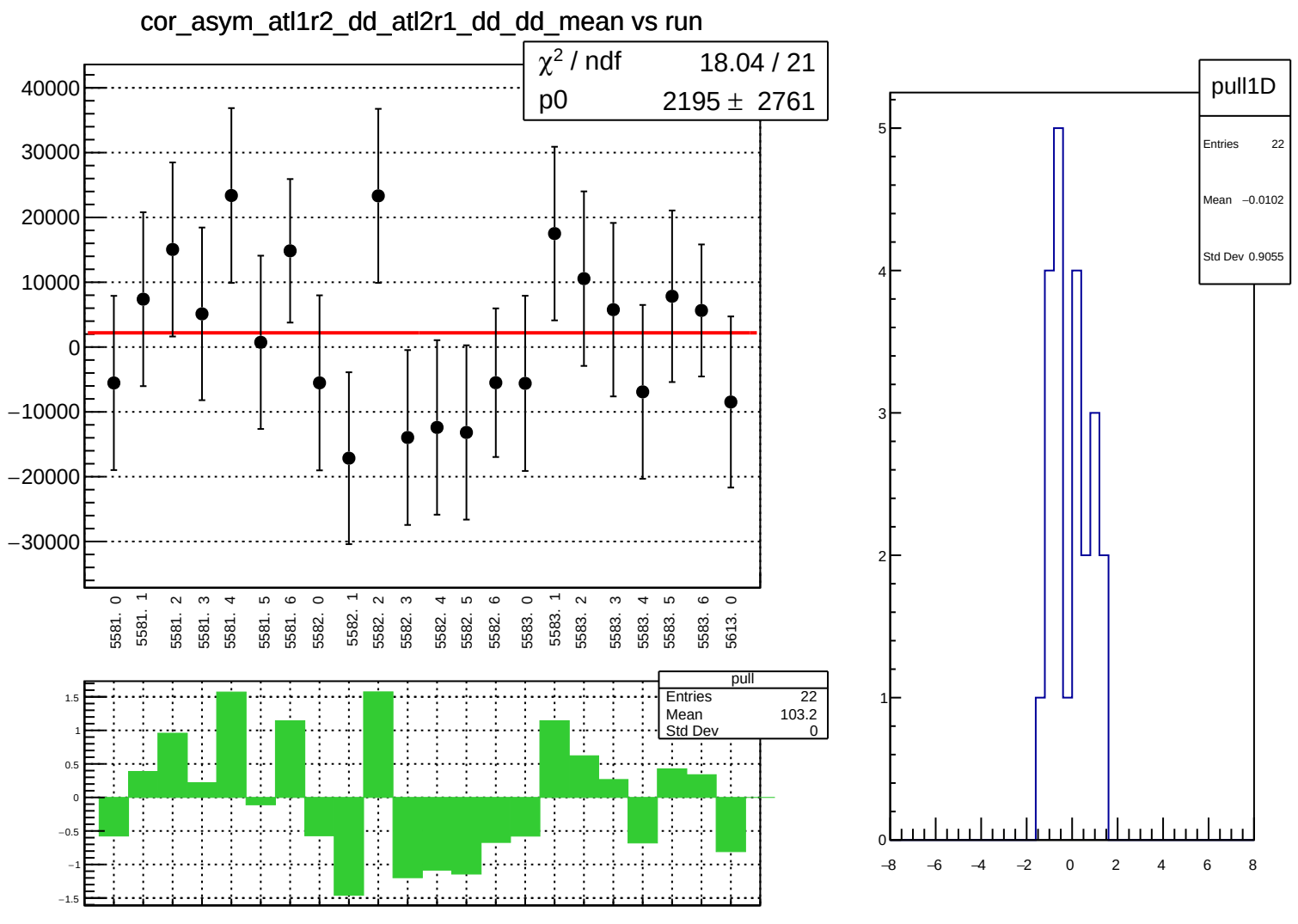

pull1D
Entries 22
Mean −0.0102
Std Dev 0.9055
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

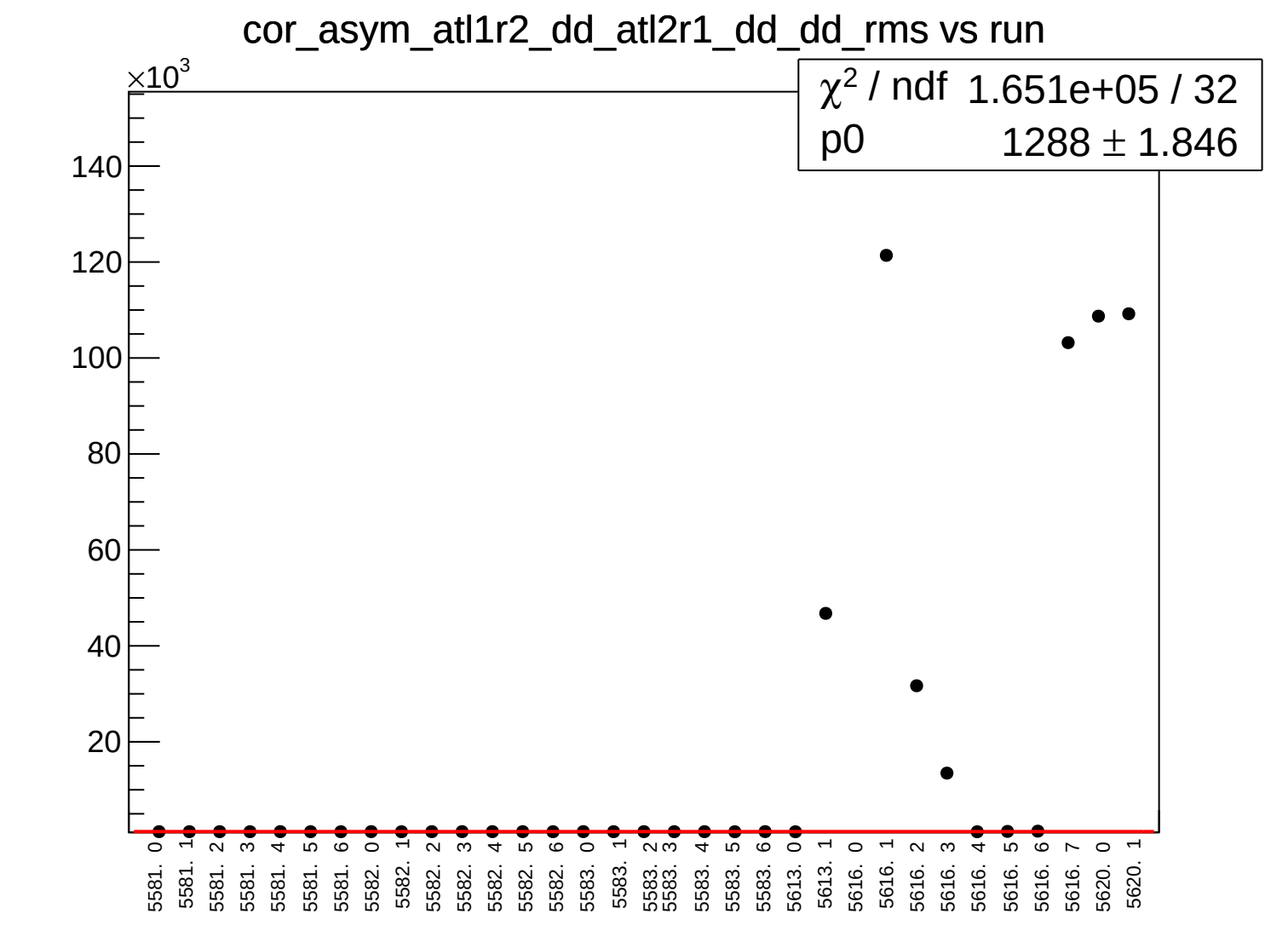

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
×10^3
χ^2 / ndf 1.662e+05 / 32
p0 1259 ± 1.806
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

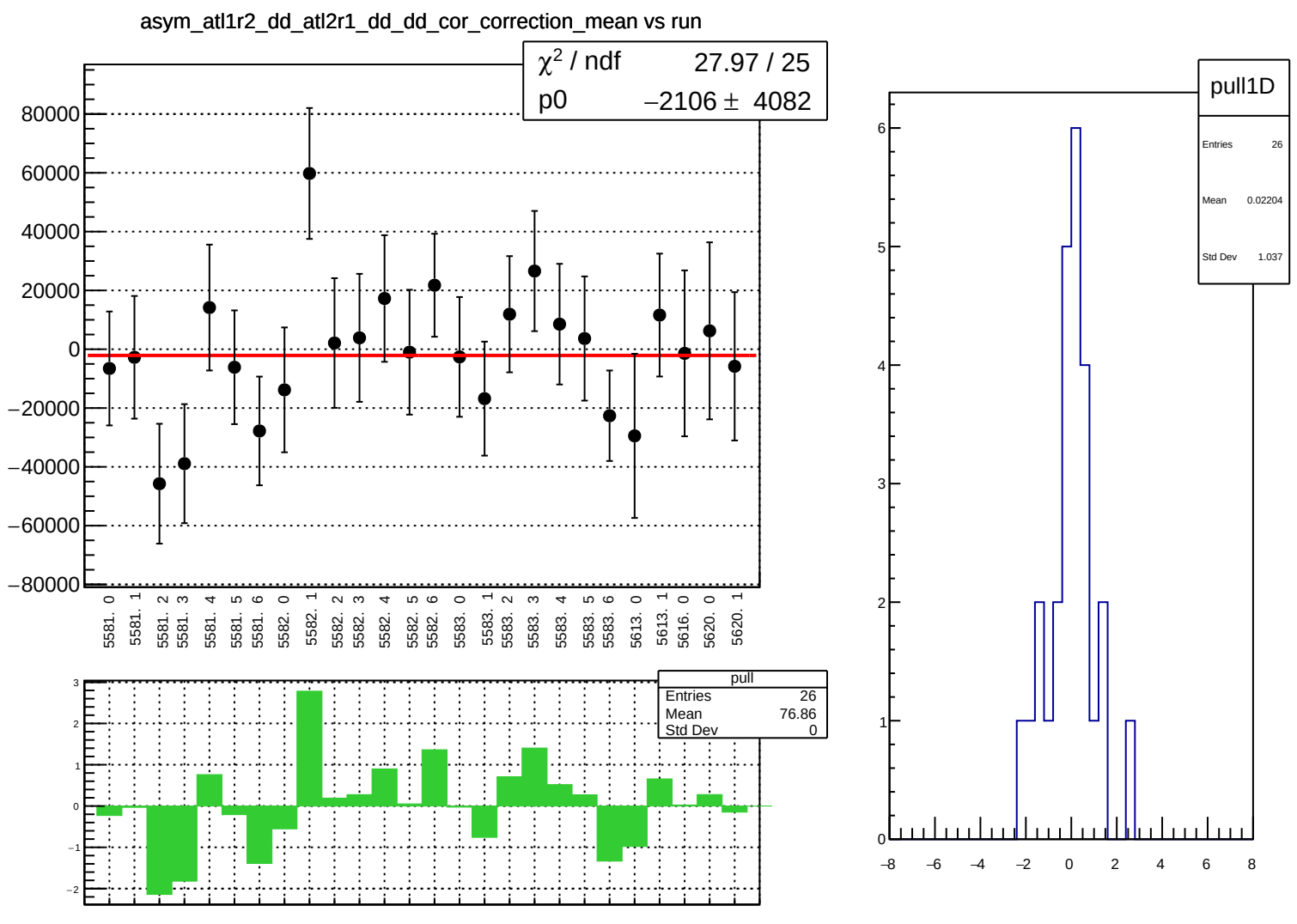

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
χ² / ndf 33.39 / 32
p0 727.7 ± 2529
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5.304
Std Dev 13.1
2
1
0
−1
−2

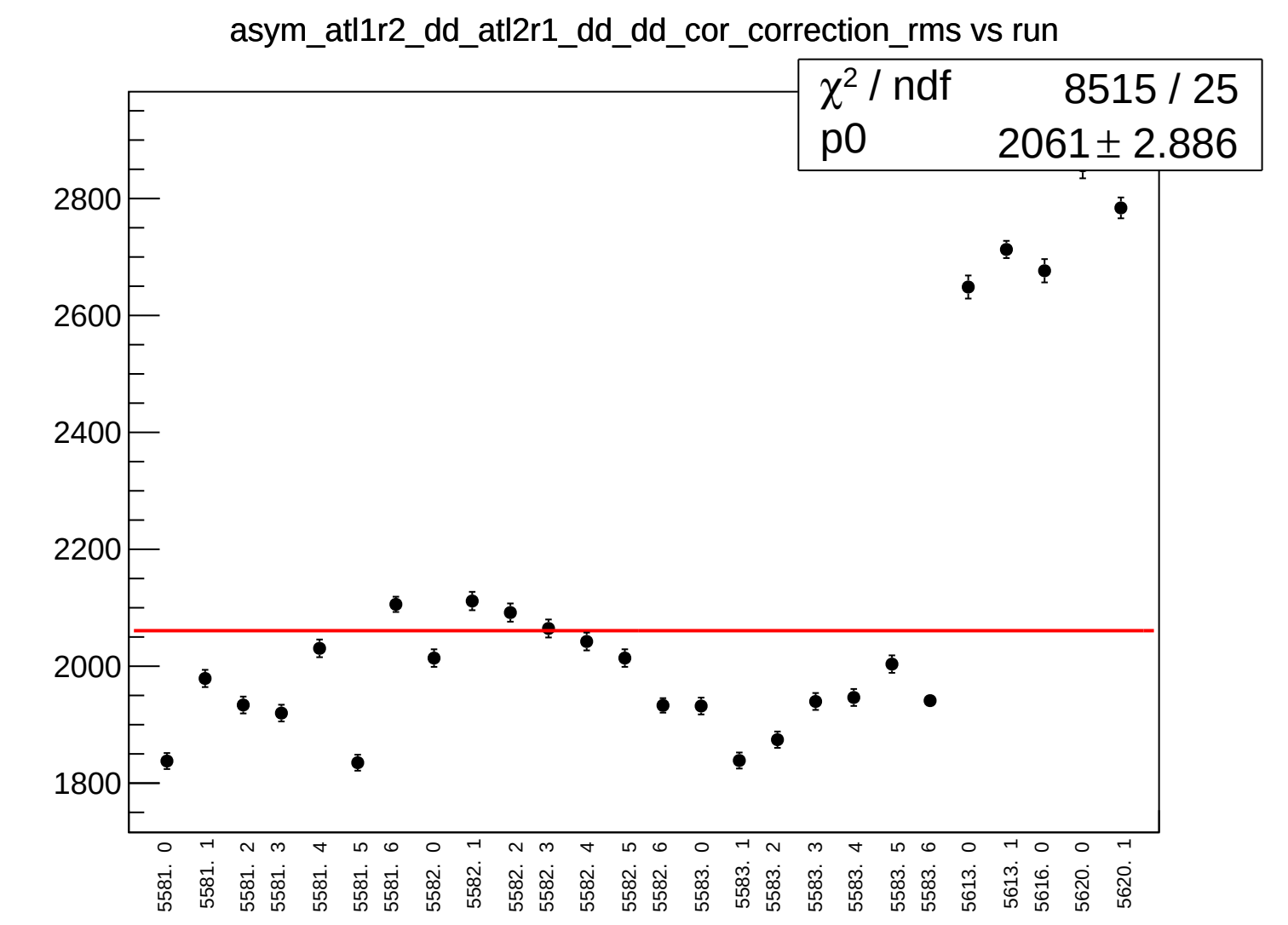

pull1D
Entries 33
Mean −0.1081
Std Dev 1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

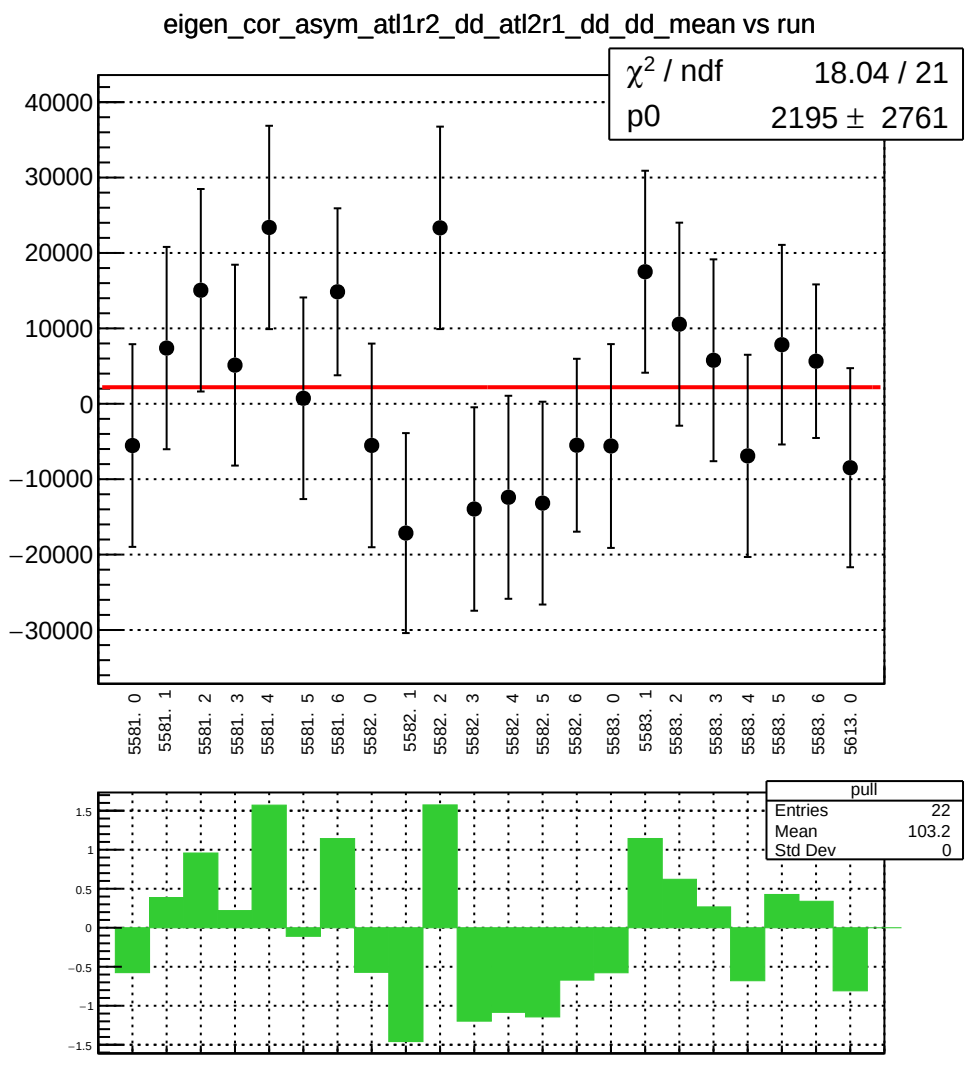

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.7e+05 / 32
p0 1241 ± 1.788
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

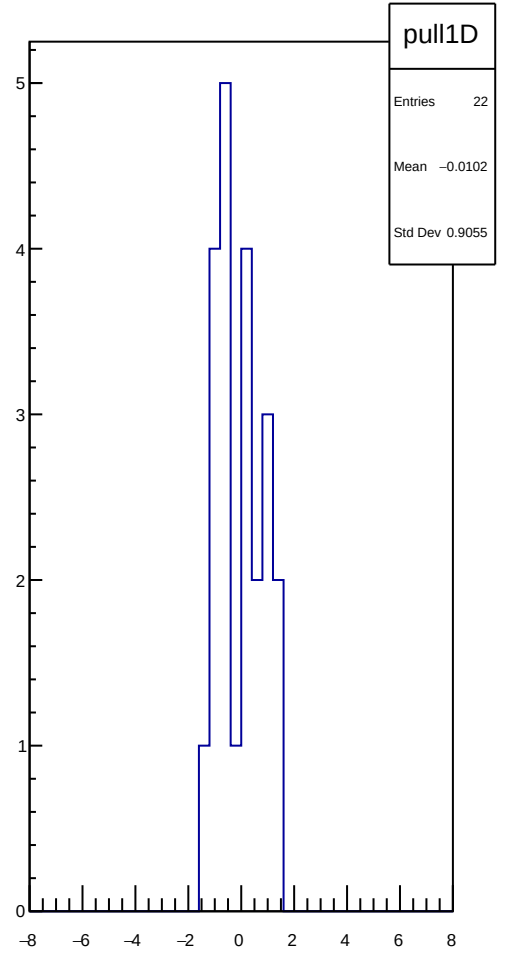

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 18.04 / 21
p0 2195 ± 2761
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 103.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 22
Mean −0.0102
Std Dev 0.9055
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

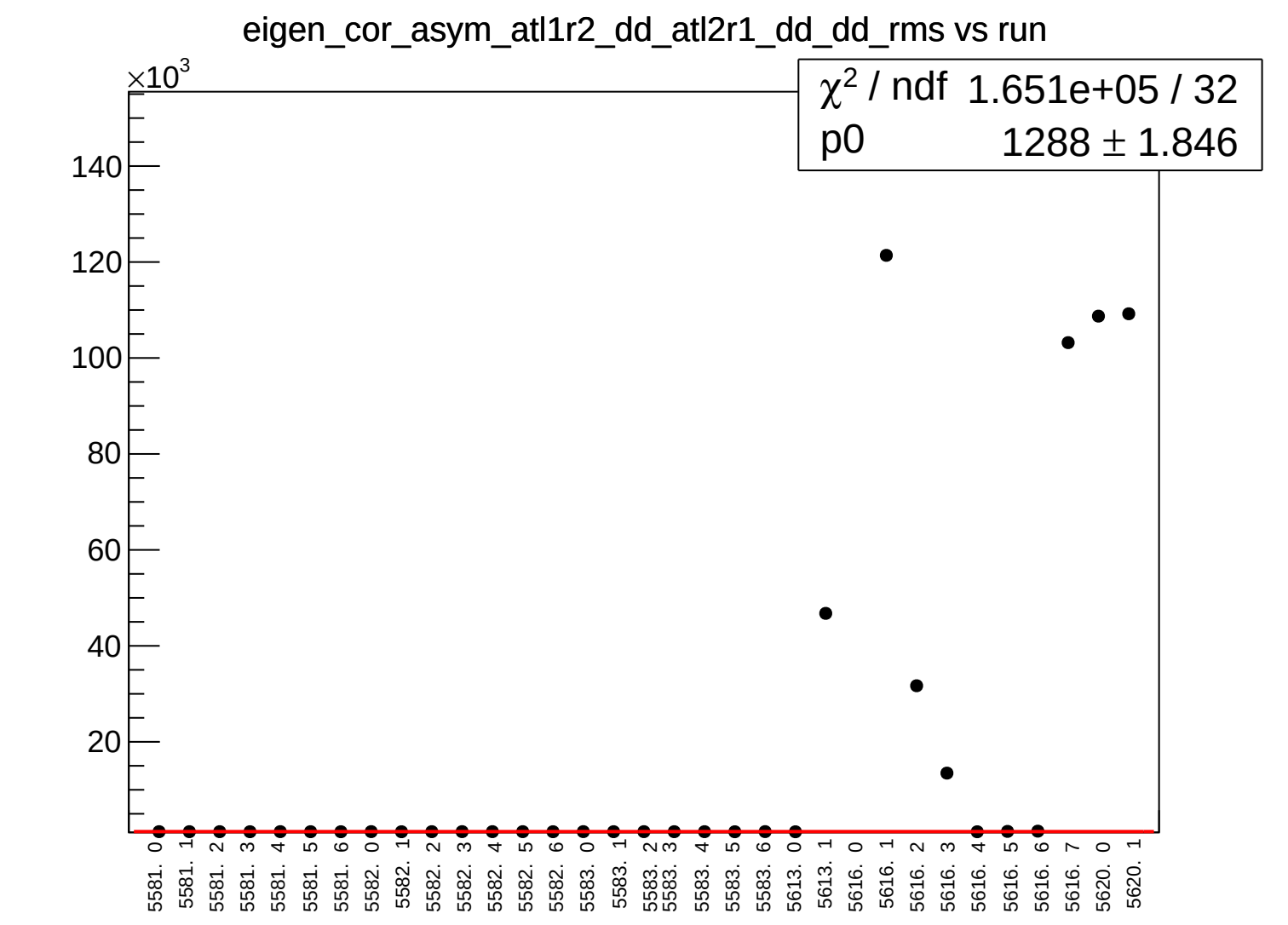

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
×10^3
χ^2 / ndf 1.651e+05 / 32
p0 1288 ± 1.846
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

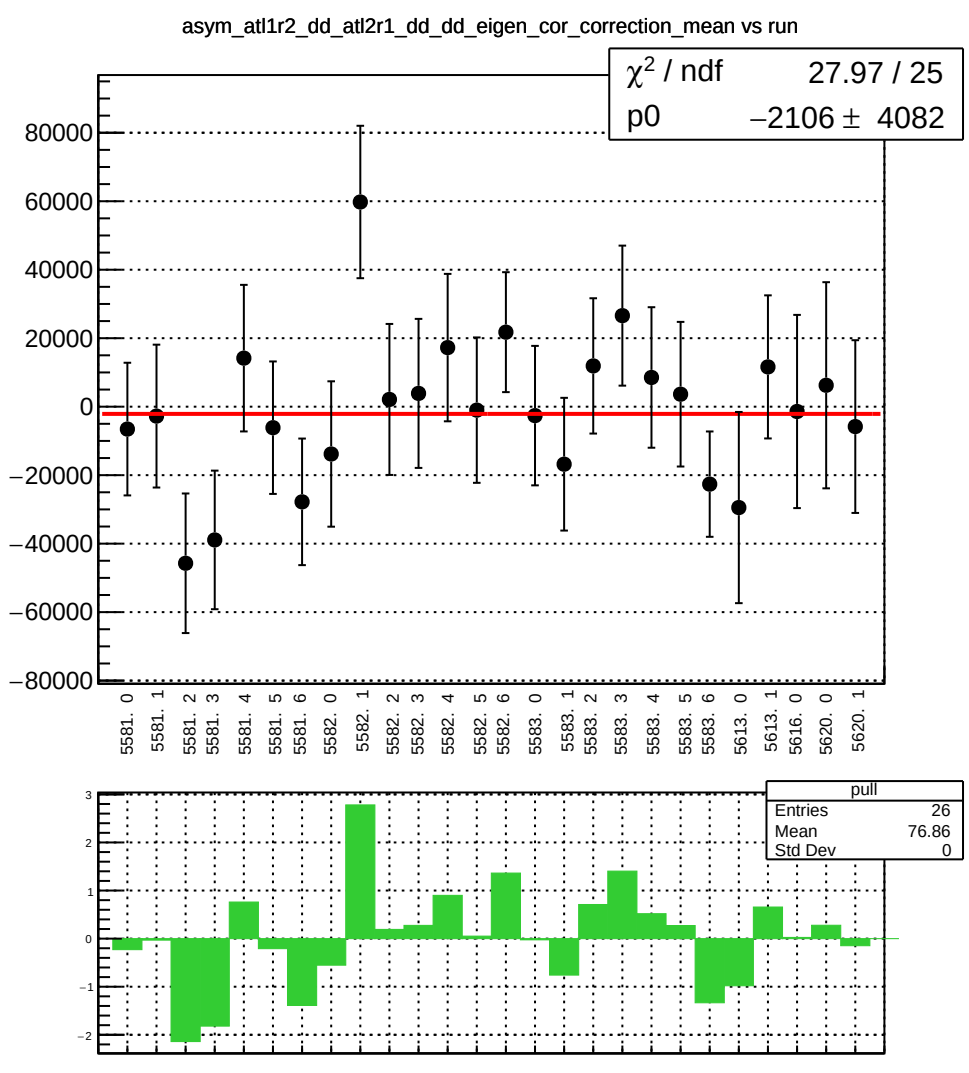

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
χ² / ndf 27.97 / 25
p0 −2106 ± 4082
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 76.86
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.02204
Std Dev 1.037
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

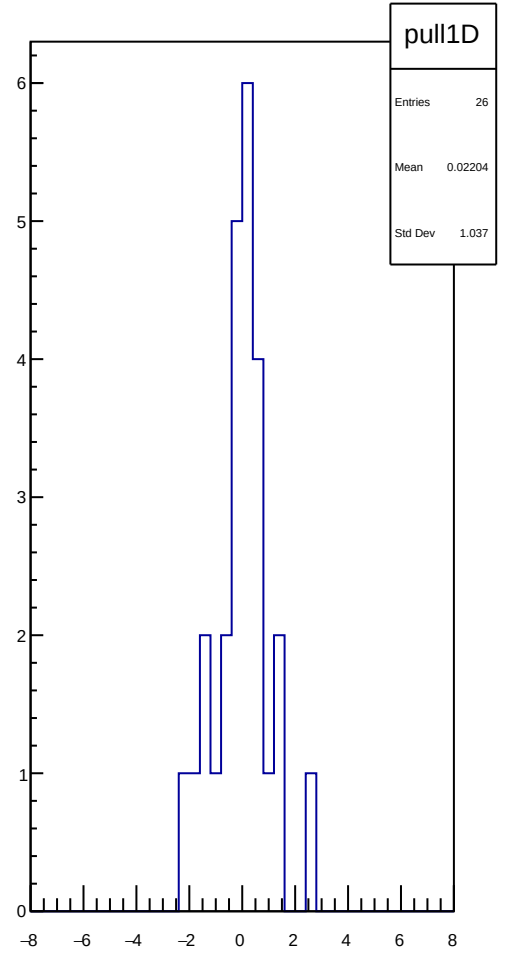

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 8515 / 25
p0 2061 ± 2.886
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

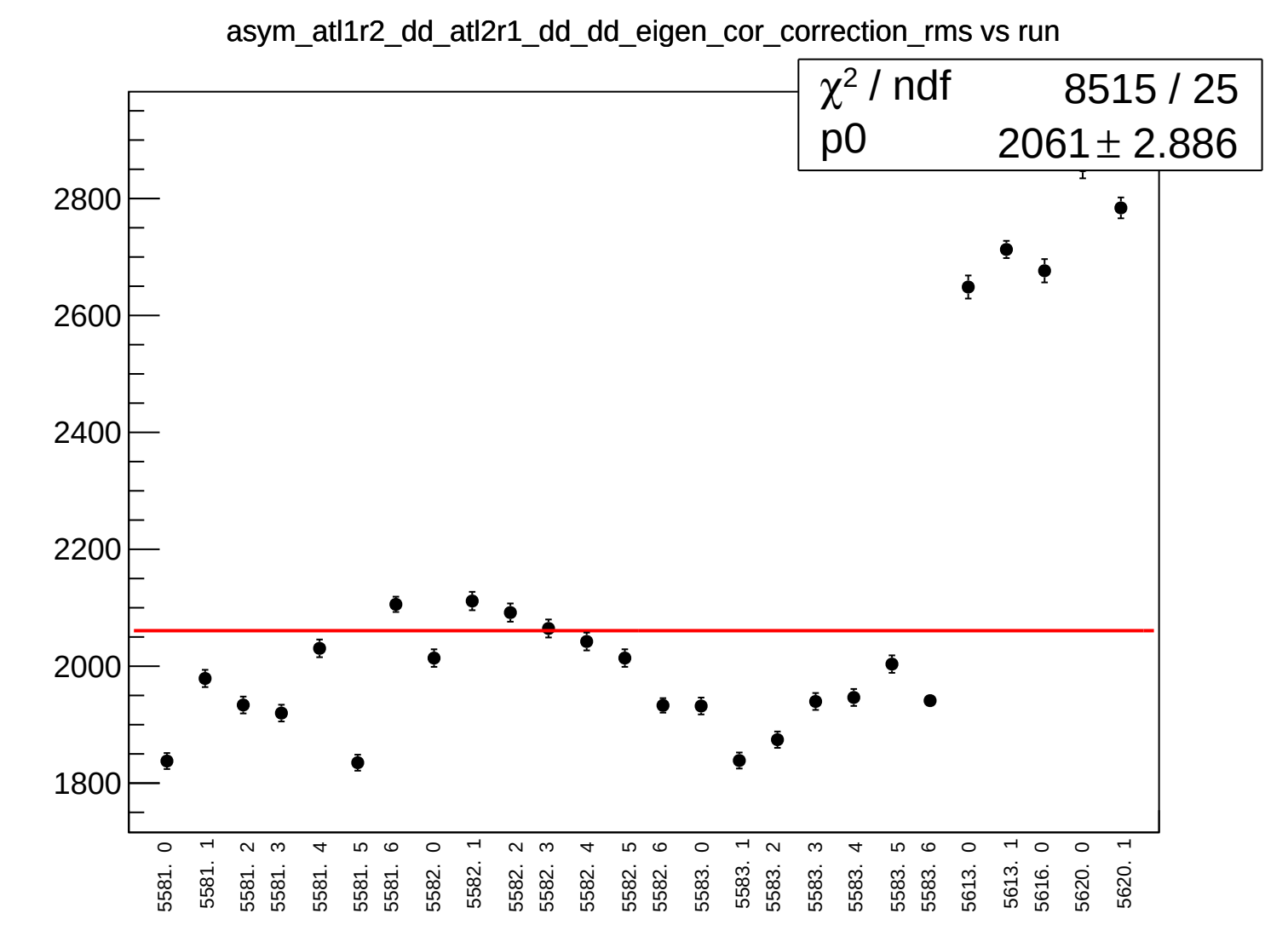

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 18.04 / 21
p0 2195 ± 2761
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 103.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

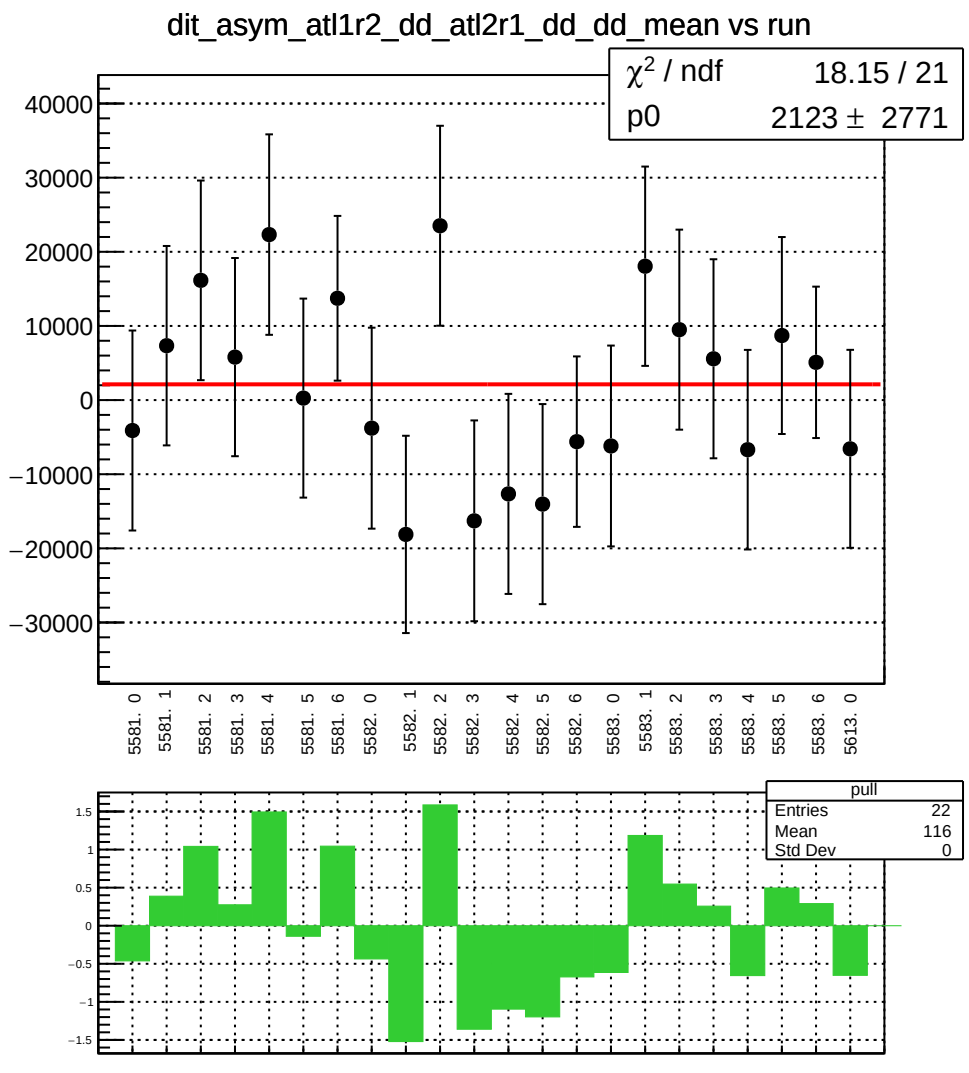

pull1D
Entries 22
Mean −0.0102
Std Dev 0.9055
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

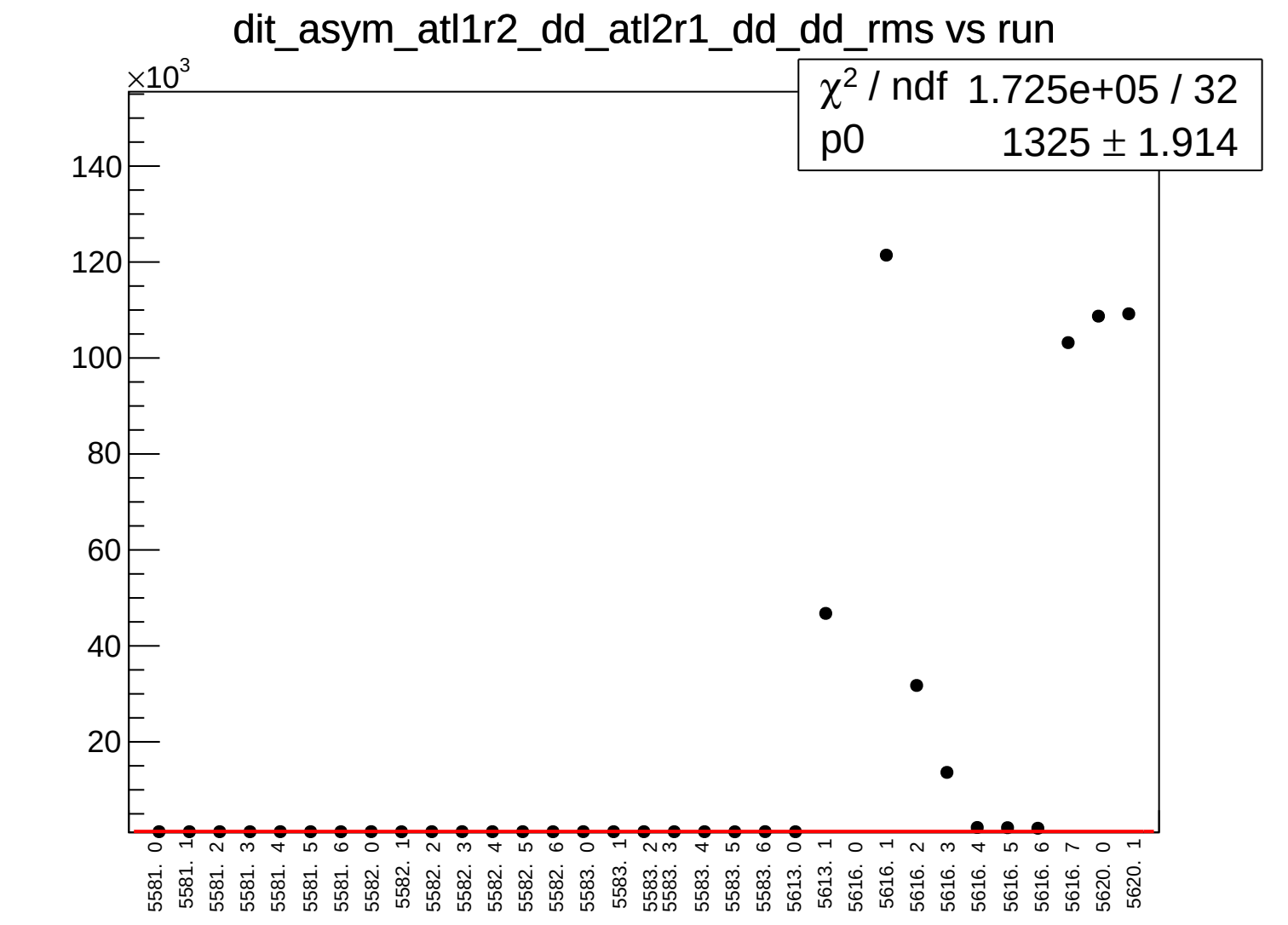

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
×10^3
χ^2 / ndf 1.651e+05 / 32
p0 1288 ± 1.846
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

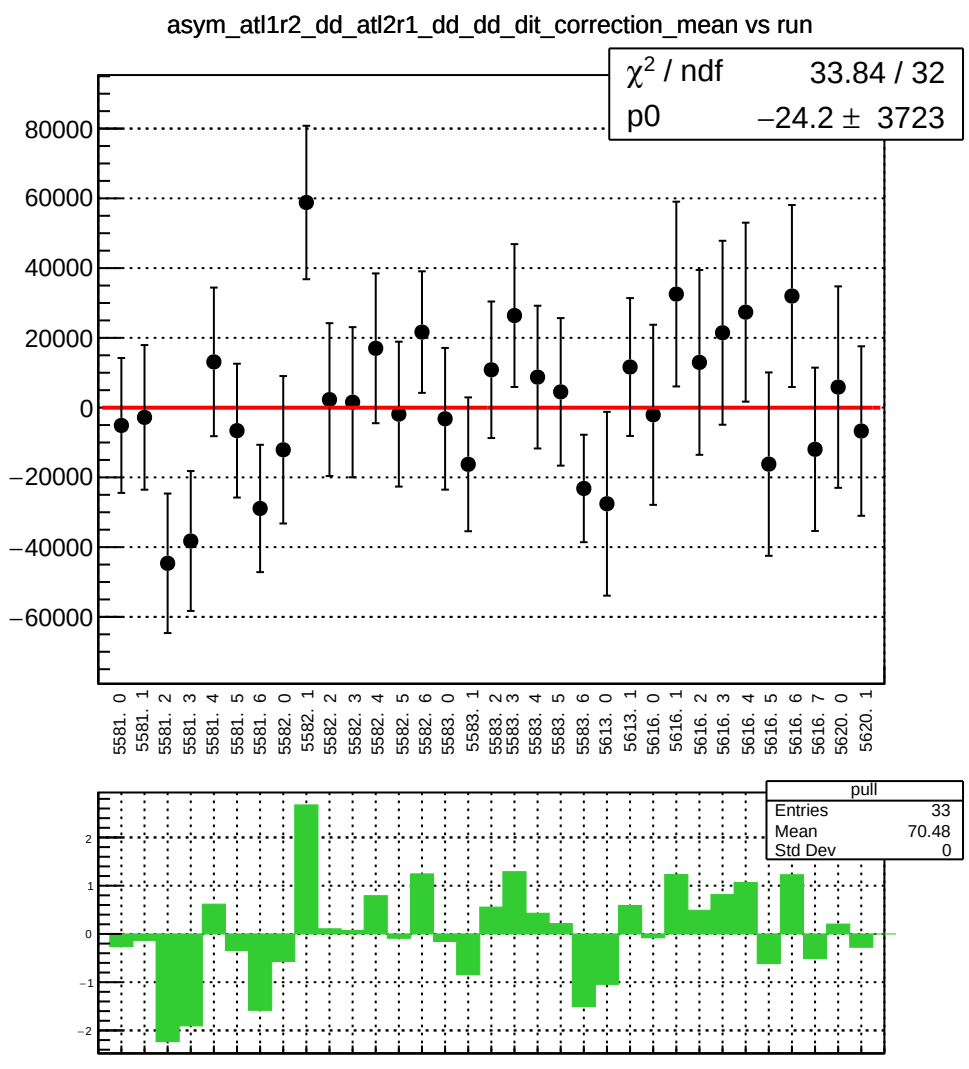

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 27.97 / 25
p0 −2106 ± 4082
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 76.86
Std Dev 0
3
2
1
0
−1
−2

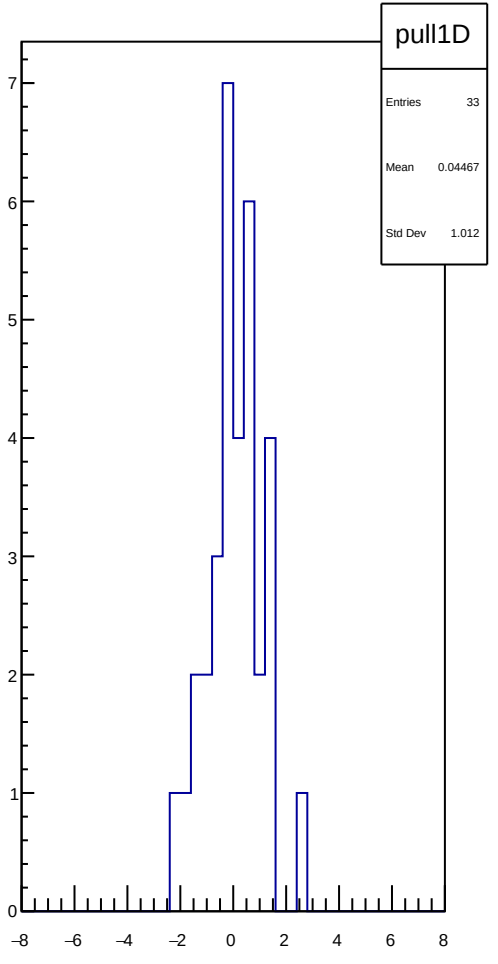

pull1D
Entries 26
Mean 0.02204
Std Dev 1.037
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

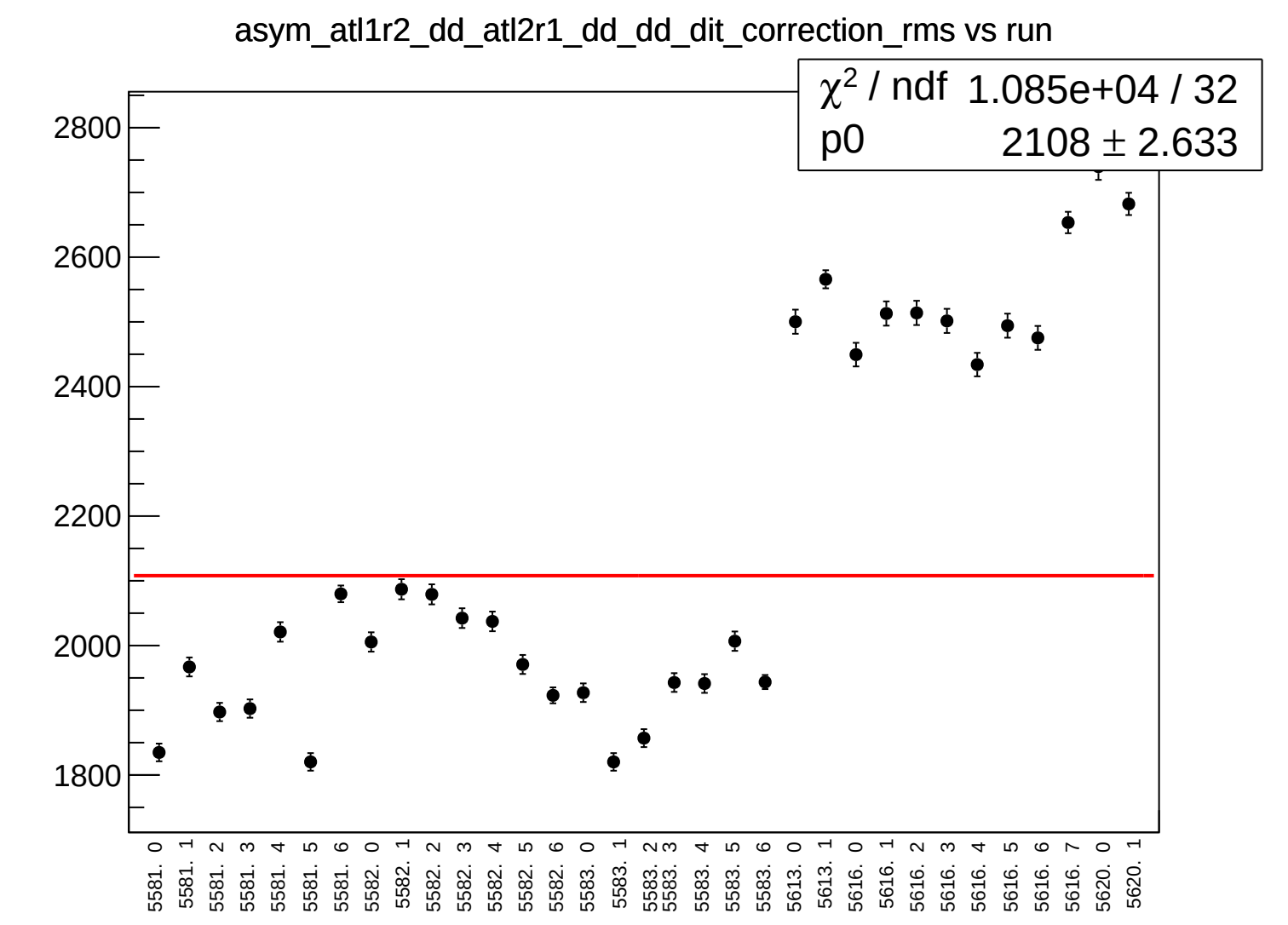

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 8515 / 25
p0 2061 ± 2.886
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

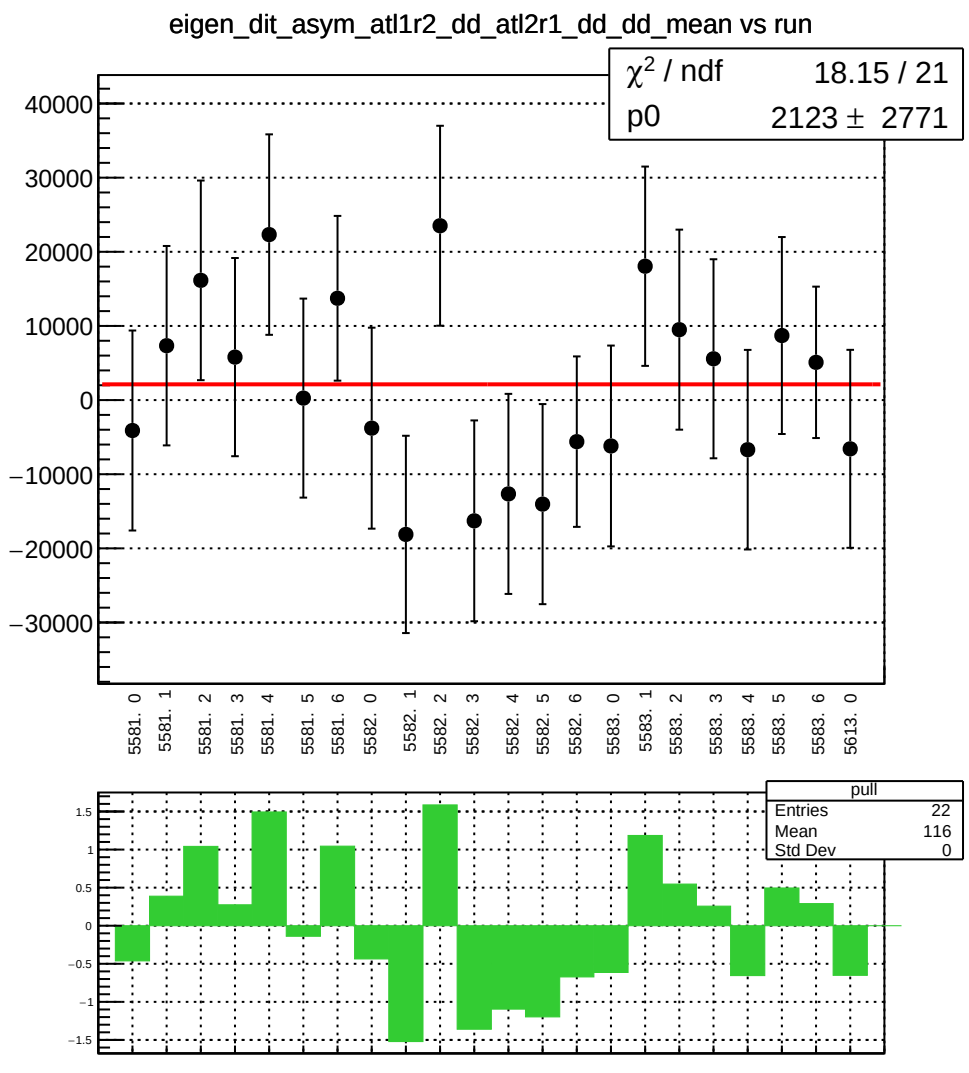

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 18.15 / 21
p0 2123 ± 2771
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 116
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 22
Mean −0.008968
Std Dev 0.9083
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

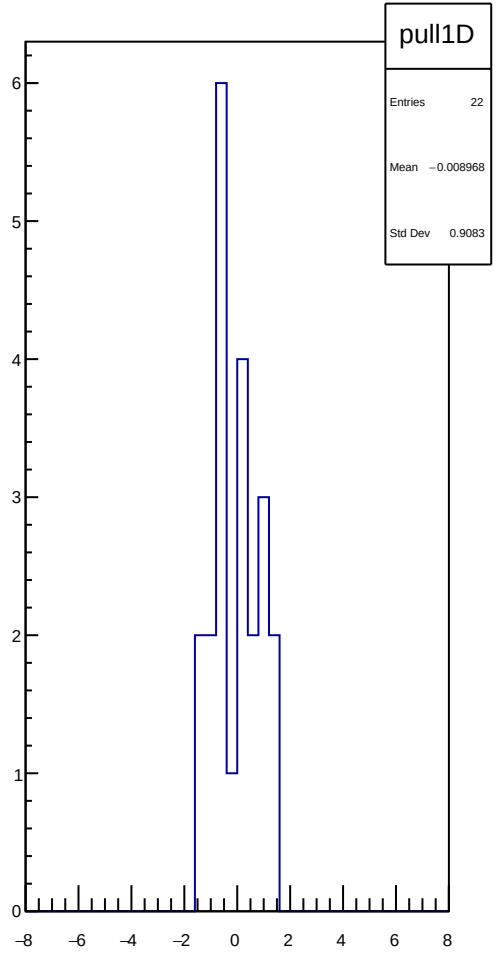

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
×10^3
χ^2 / ndf 1.725e+05 / 32
p0 1325 ± 1.914
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

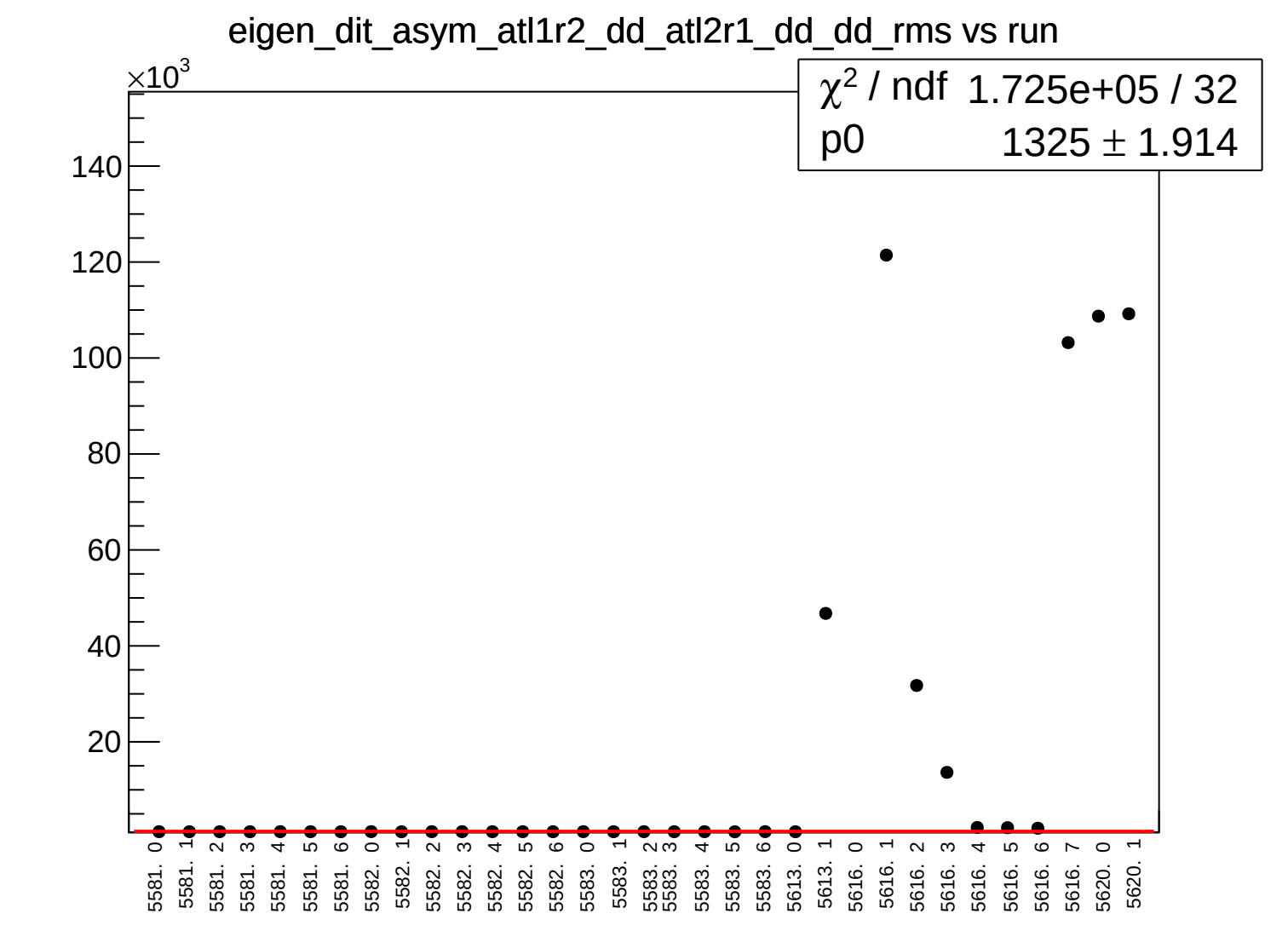

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
χ² / ndf 33.84 / 32
p0 −24.2 ± 3723
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 70.48
Std Dev 0
2
1
0
−1
−2

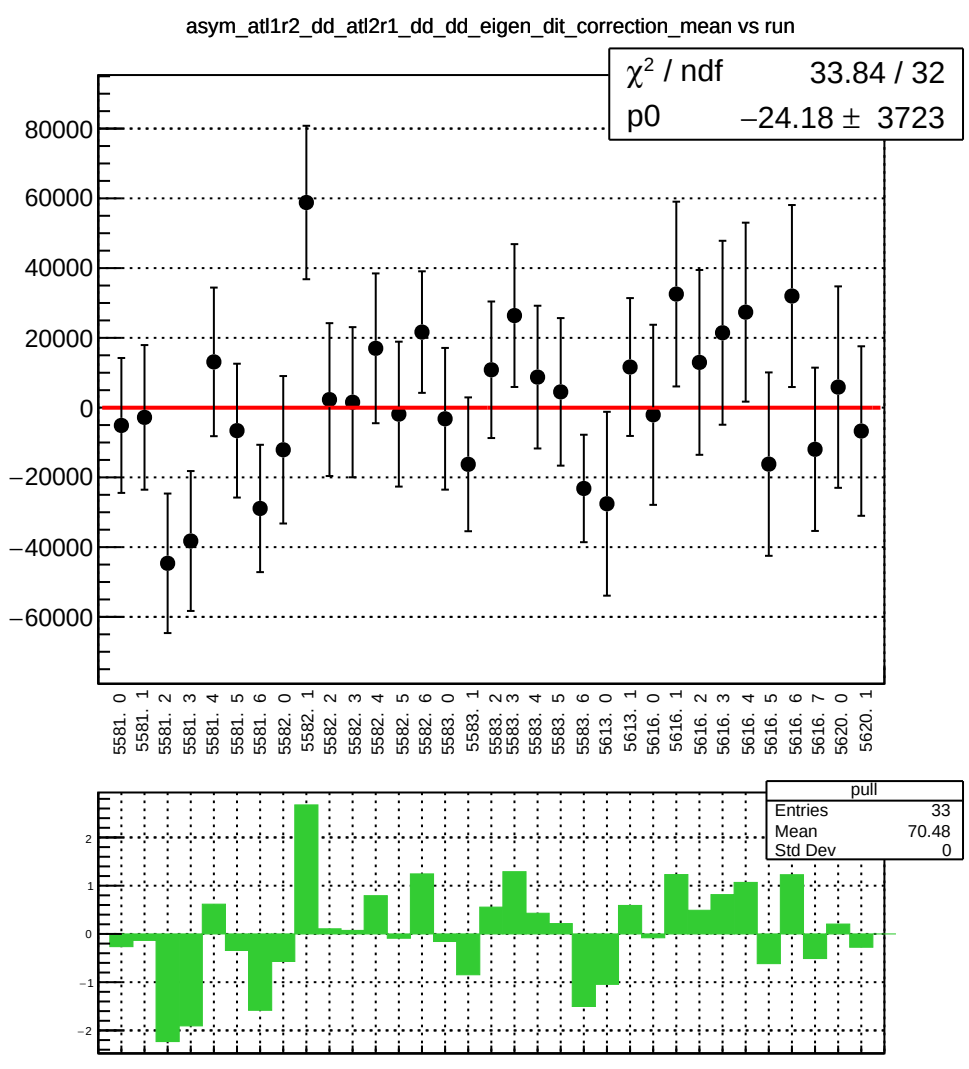

pull1D
Entries 33
Mean 0.04467
Std Dev 1.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

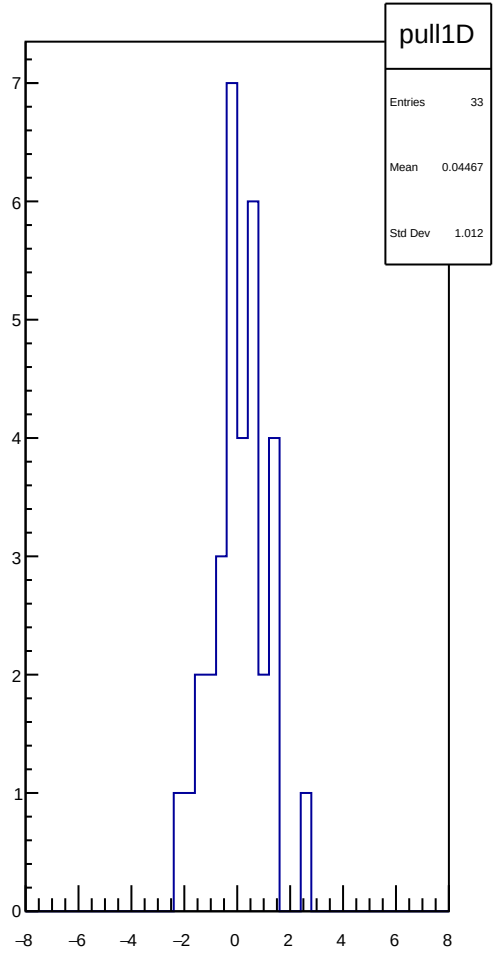

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 32
p0 2108 ± 2.633
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

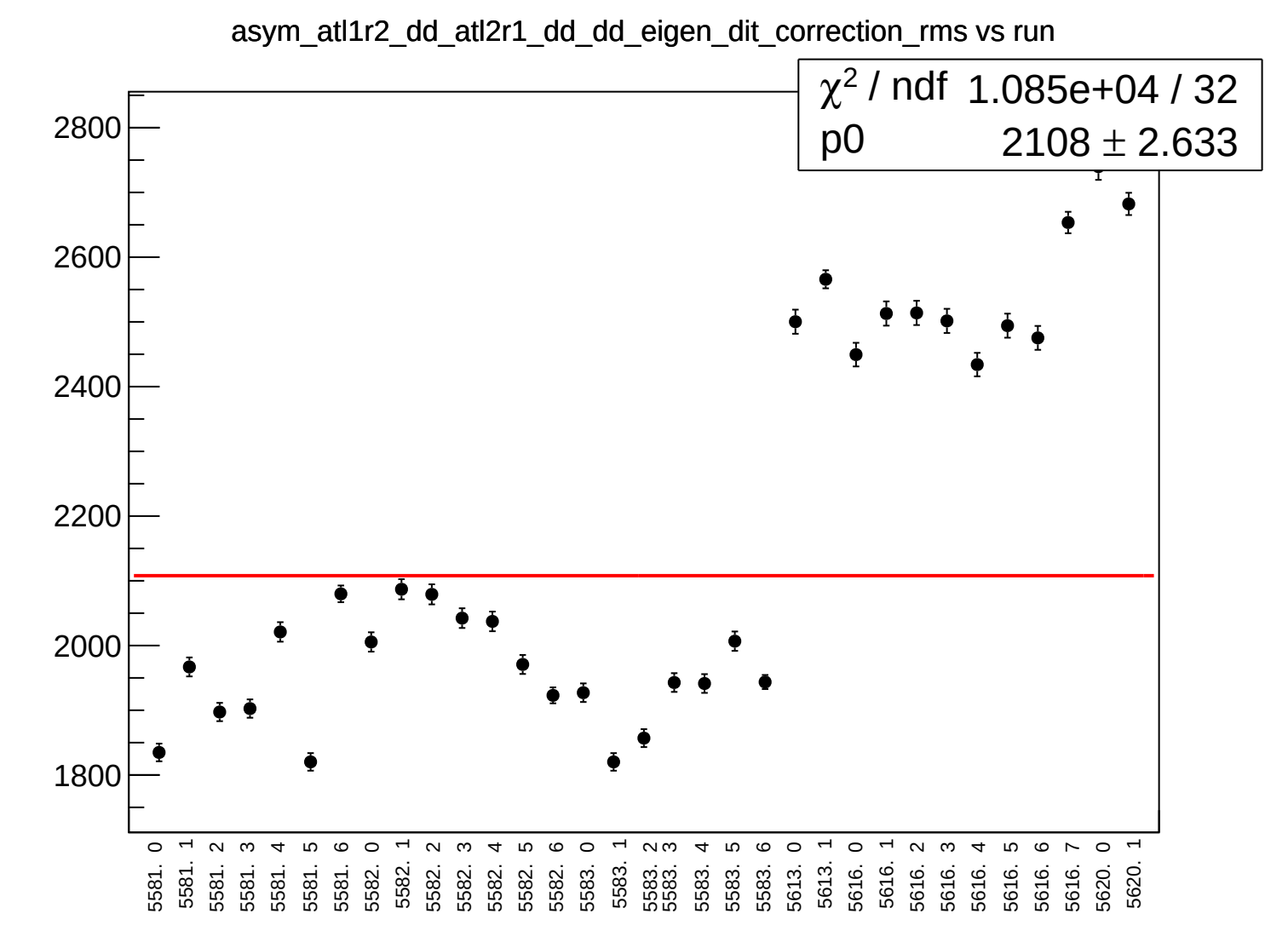

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 18.15 / 21
p0 2123 ± 2771
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 116
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

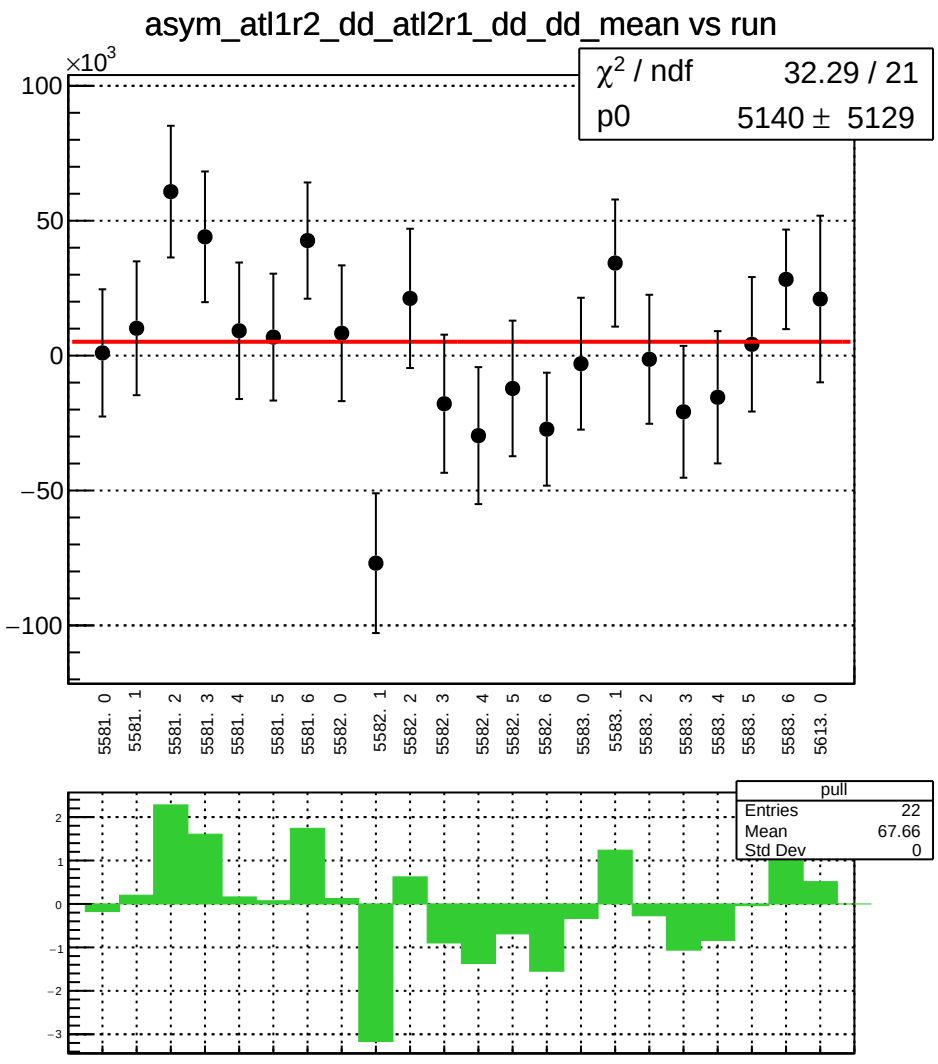

pull1D
Entries 22
Mean −0.008968
Std Dev 0.9083
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

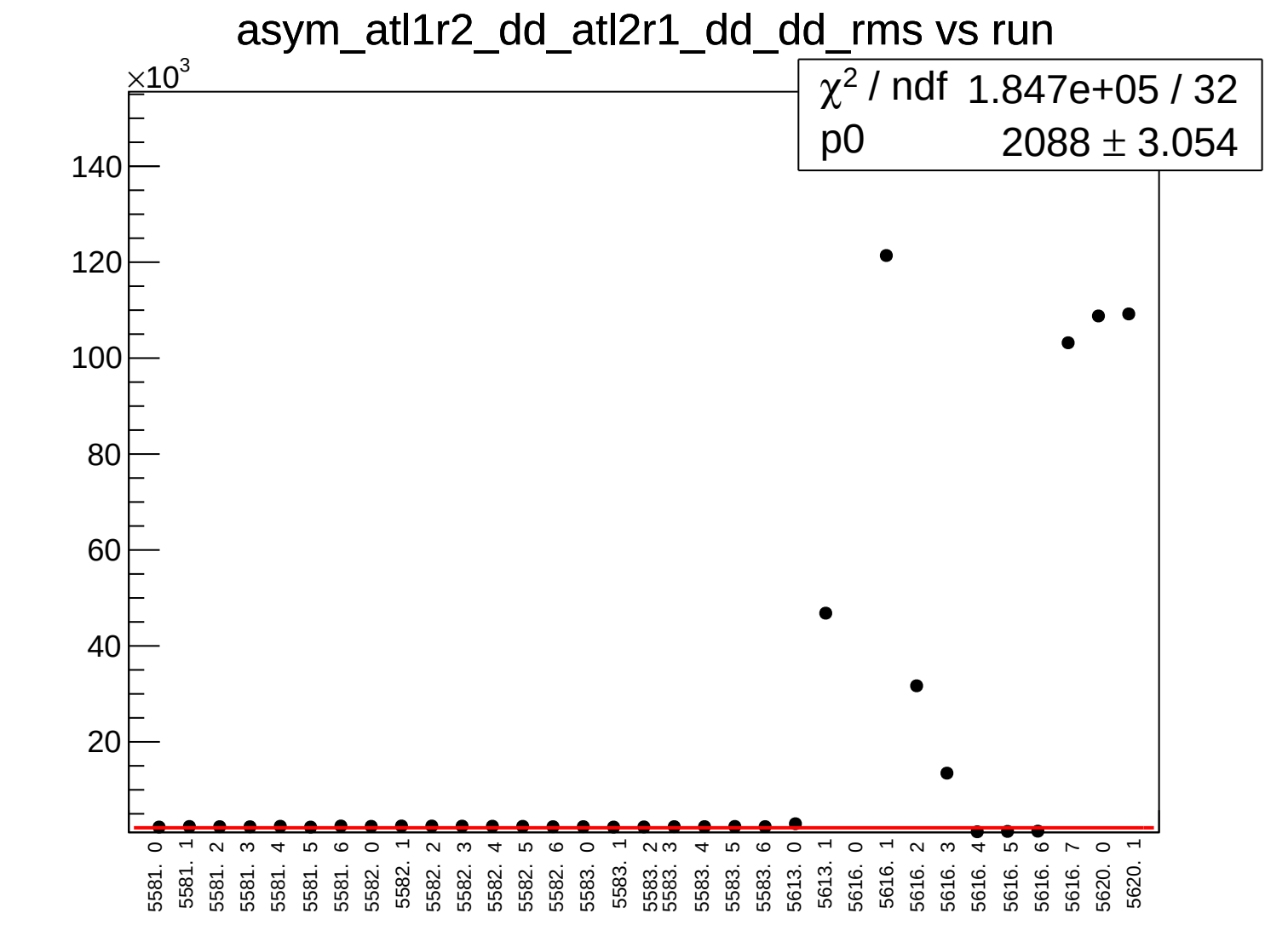

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
×10^3
χ^2 / ndf 1.725e+05 / 32
p0 1325 ± 1.914
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

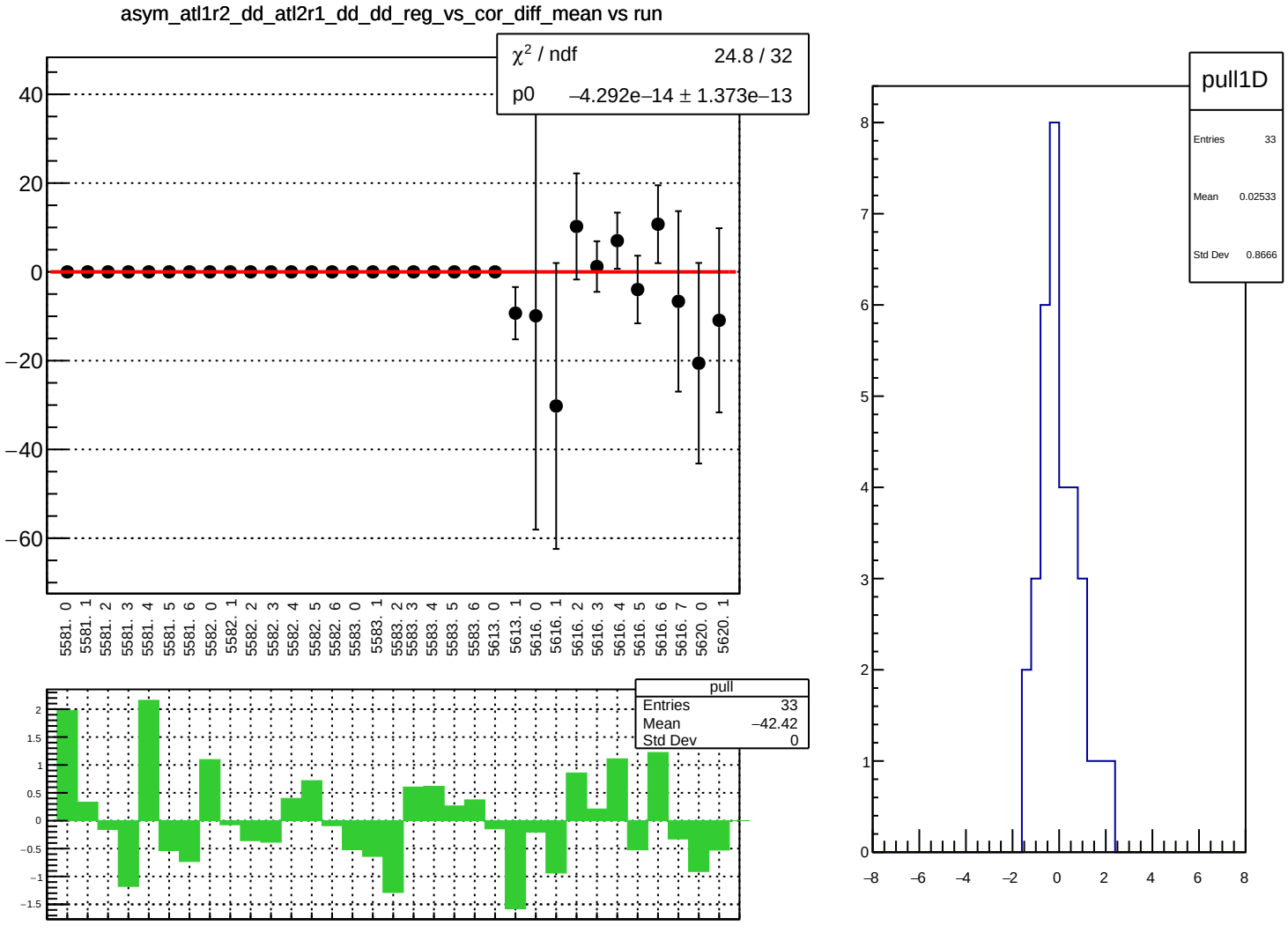

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 33.84 / 32
p0 −24.18 ± 3723
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 70.48
Std Dev 0
2
1
0
−1
−2

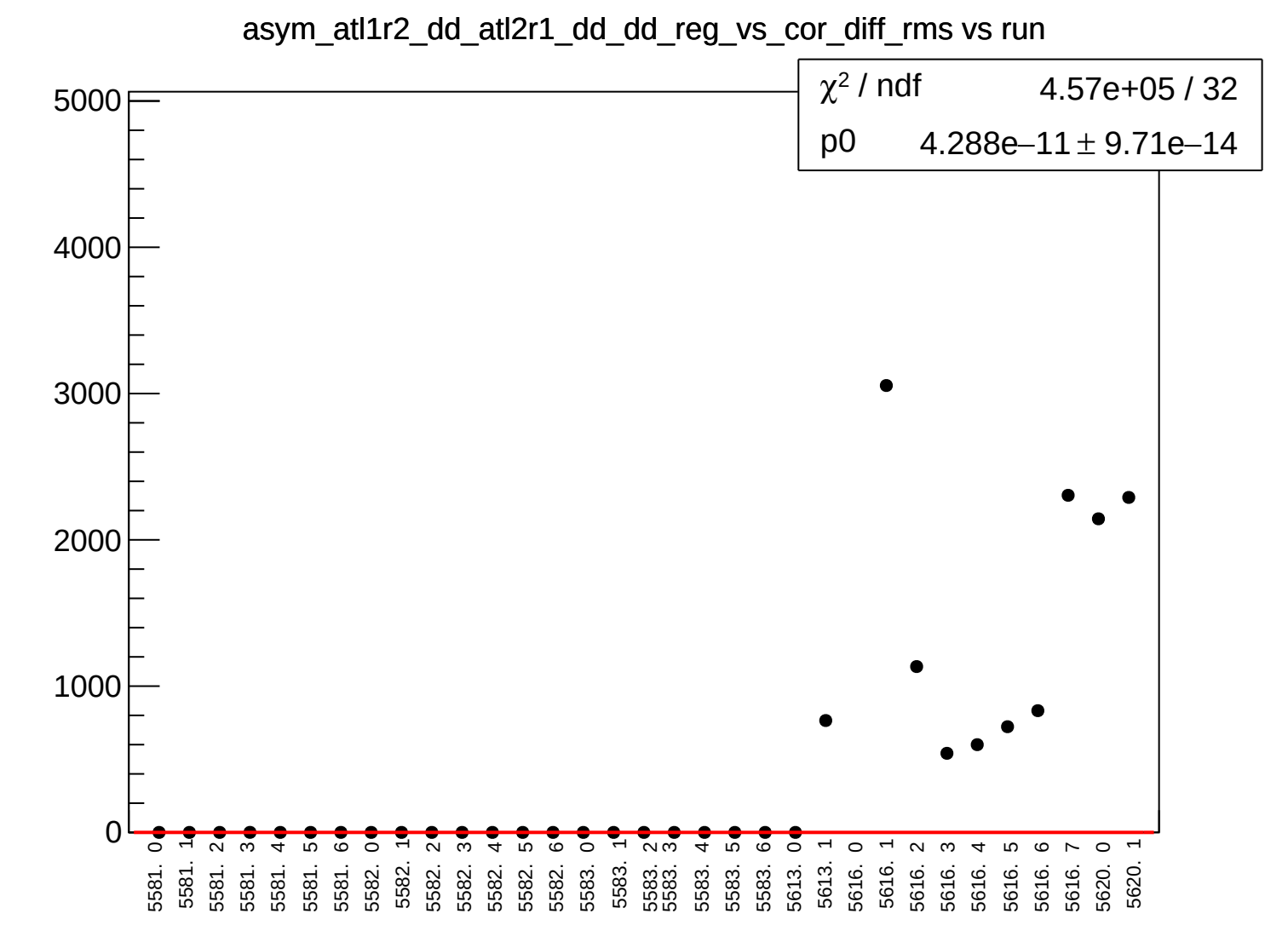

pull1D
Entries 33
Mean 0.04467
Std Dev 1.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

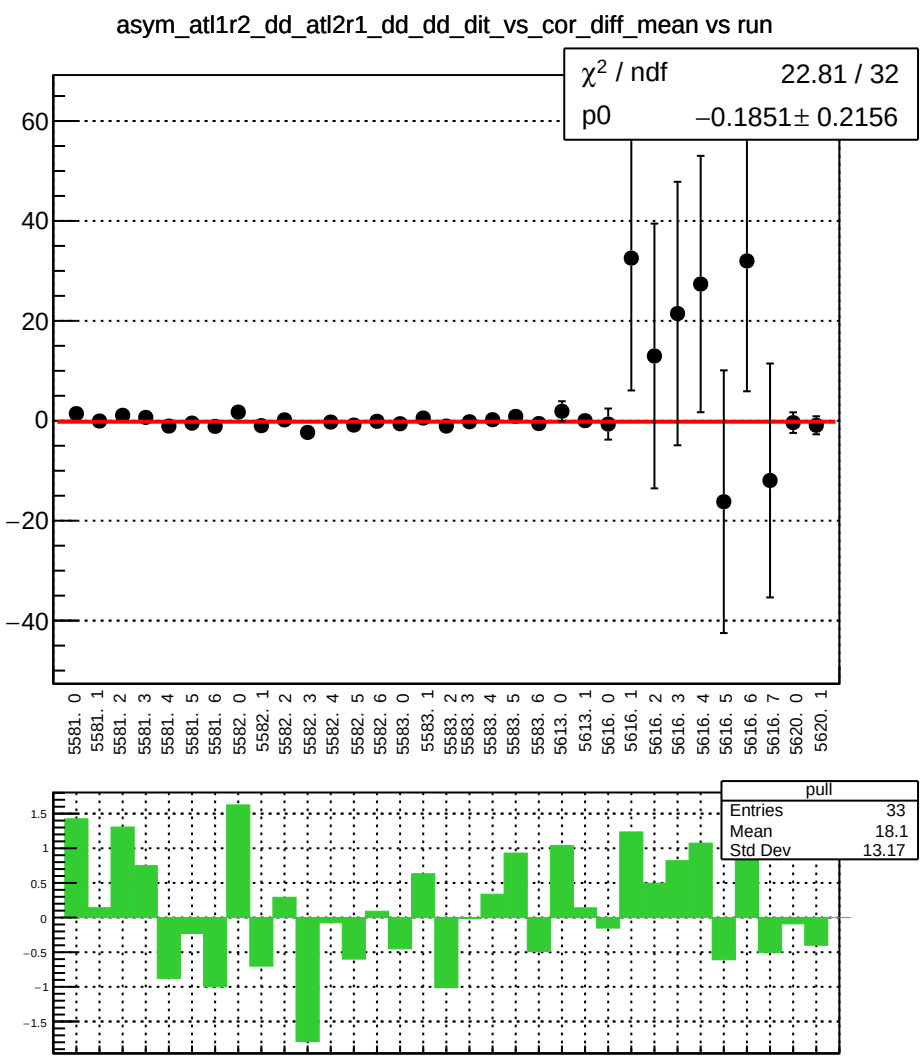

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 32
p0 2108 ± 2.633
2800
2600
2400
2200
2000
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

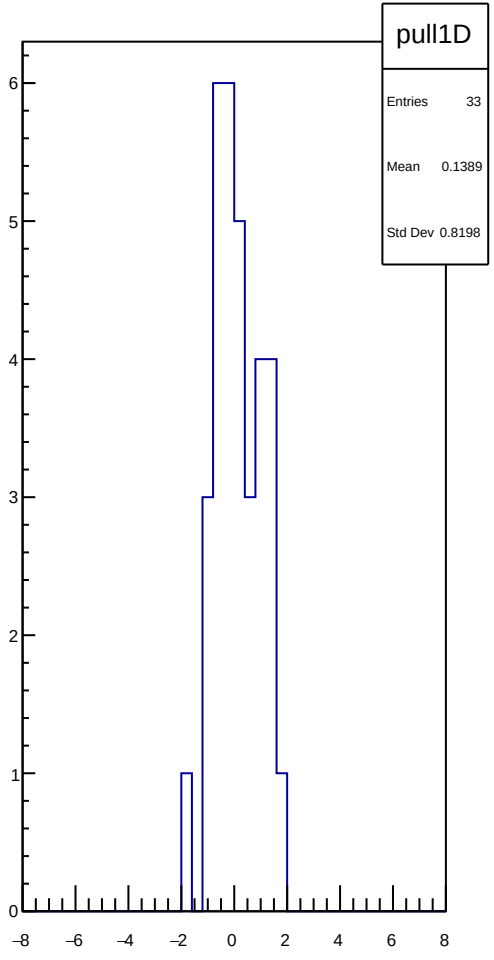

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ^2 / ndf 32.29 / 21
p0 5140 ± 5129
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 67.66
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 22
Mean −0.02622
Std Dev 1.211
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

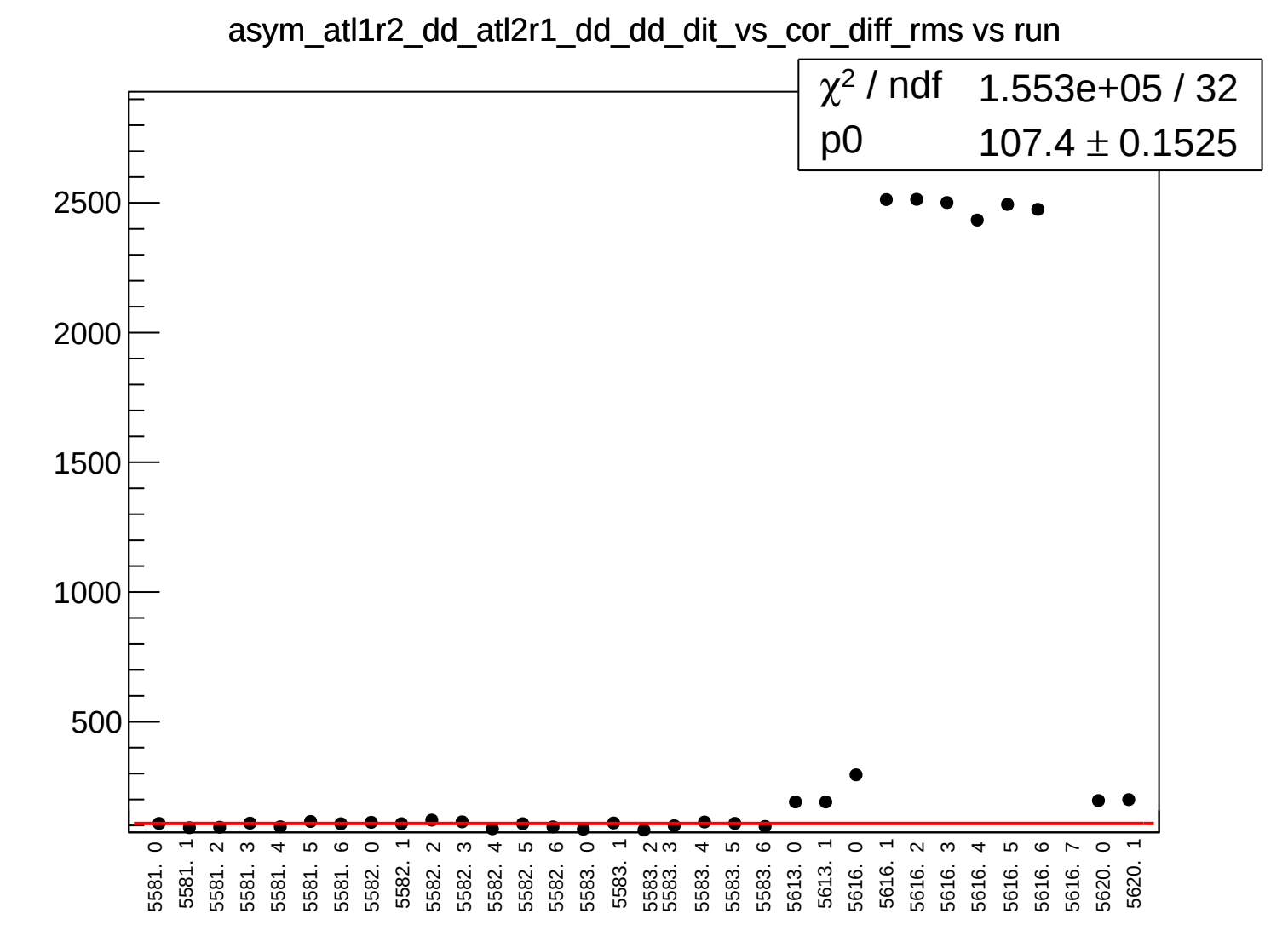

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
×10^3
χ² / ndf 1.847e+05 / 32
p0 2088 ± 3.054
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

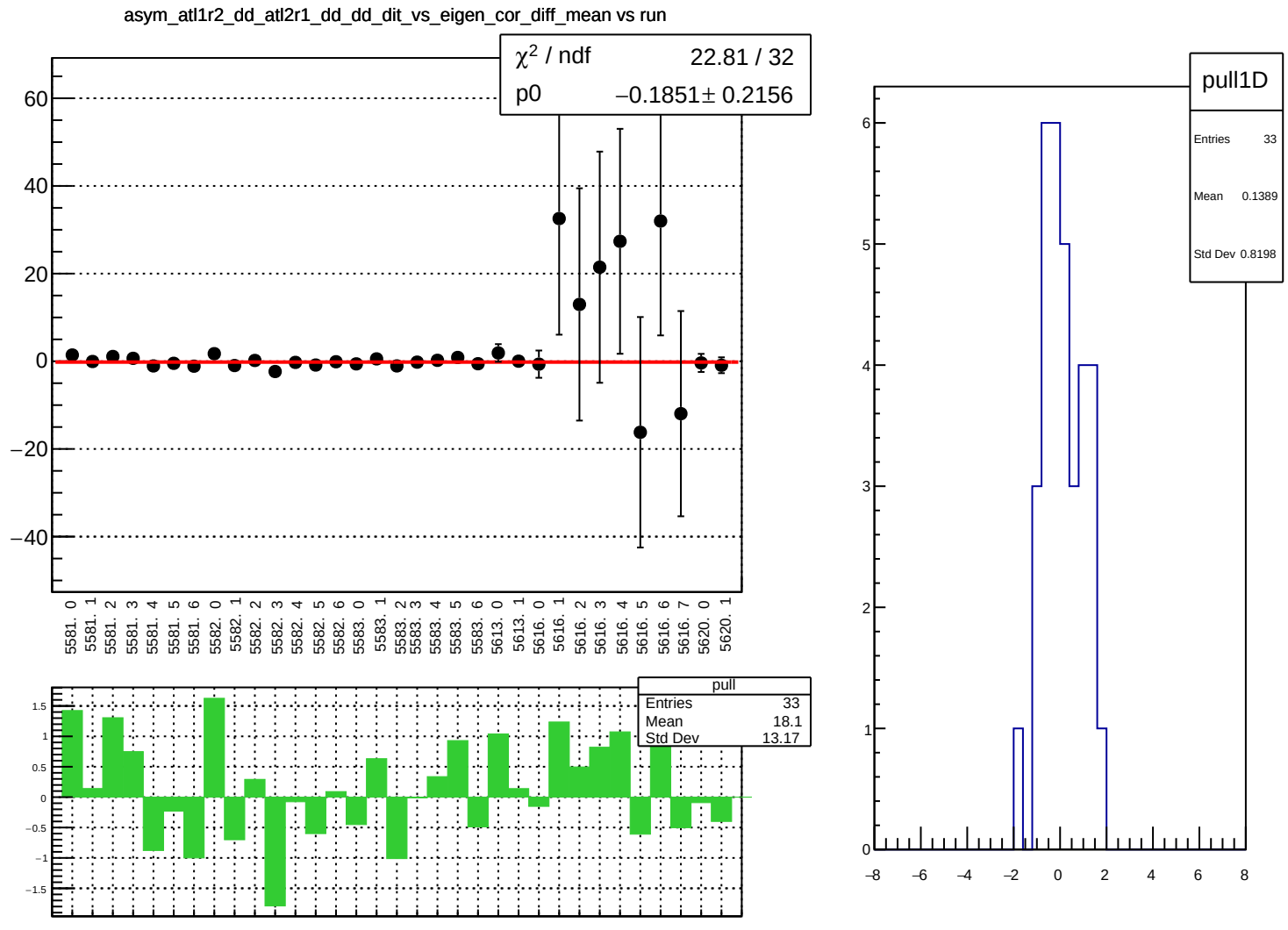

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.8 / 32
p0 −4.292e−14 ± 1.373e−13
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −42.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.02533
Std Dev 0.8666
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

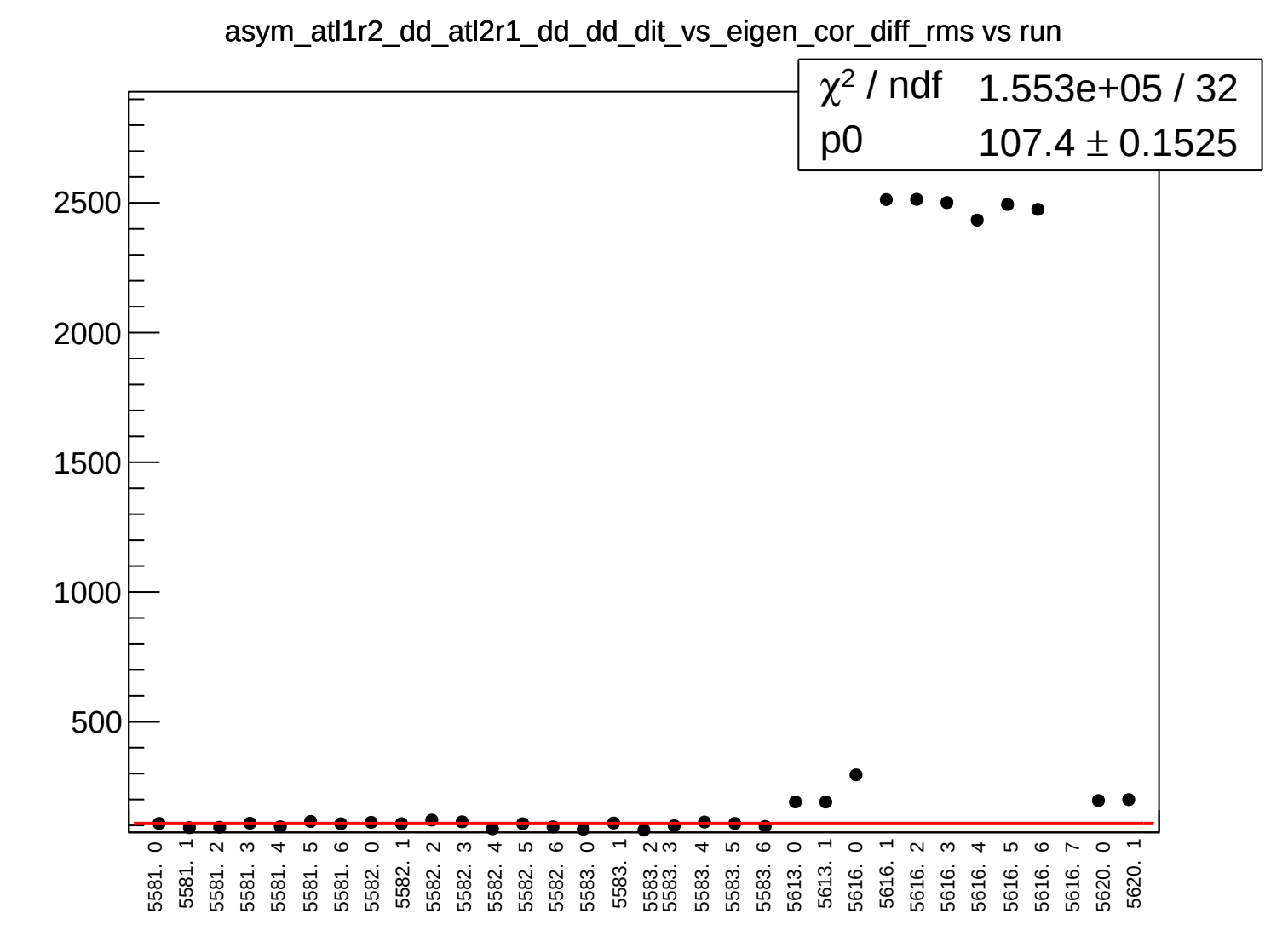

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.57e+05 / 32
p0 4.288e−11 ± 9.71e−14
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

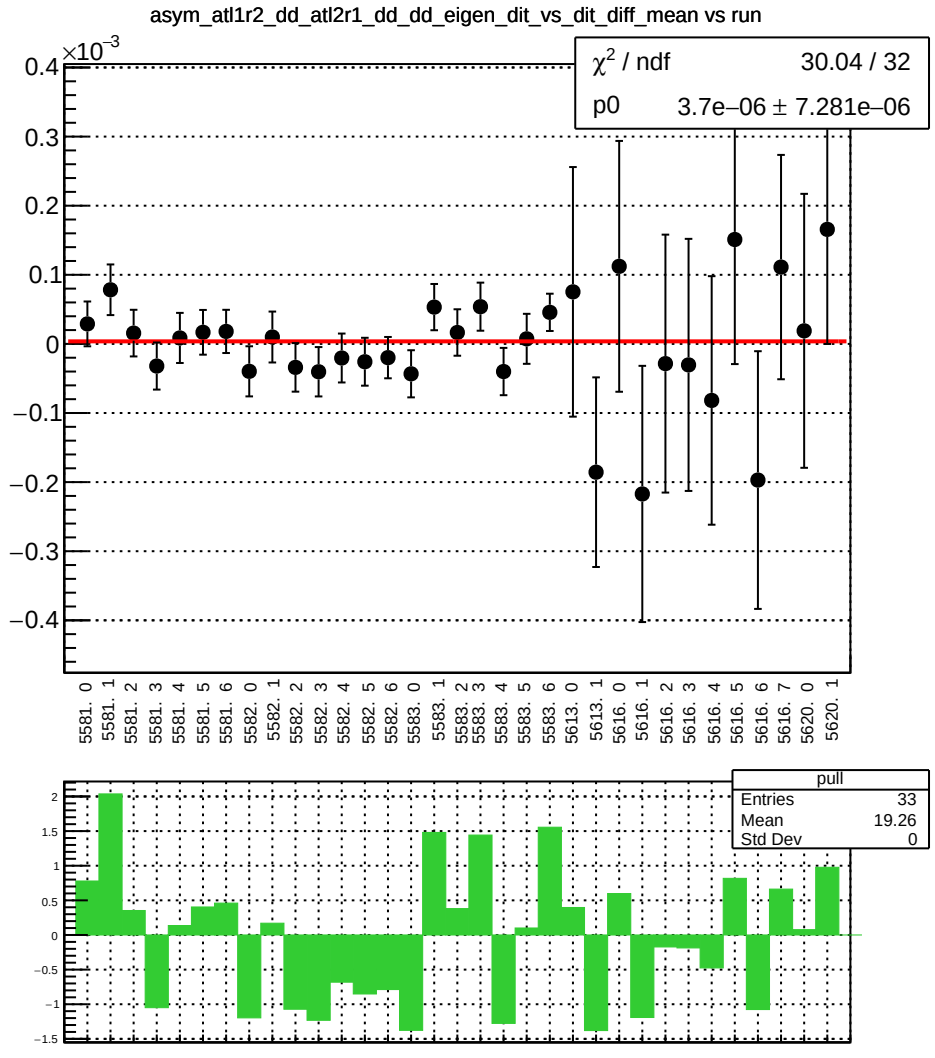

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 22.81 / 32
p0 −0.1851± 0.2156
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.1
Std Dev 13.17
1.5
1
0.5
0
−0.5
−1
−1.5

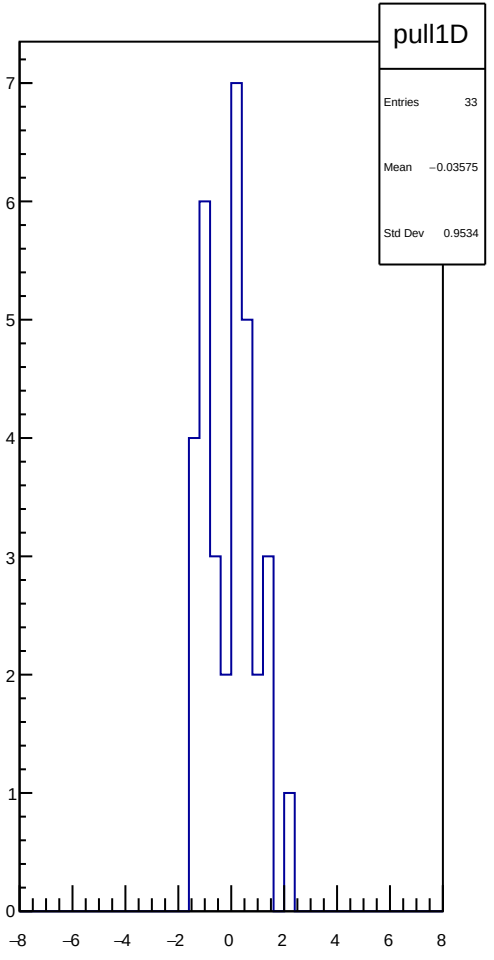

pull1D
Entries 33
Mean 0.1389
Std Dev 0.8198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

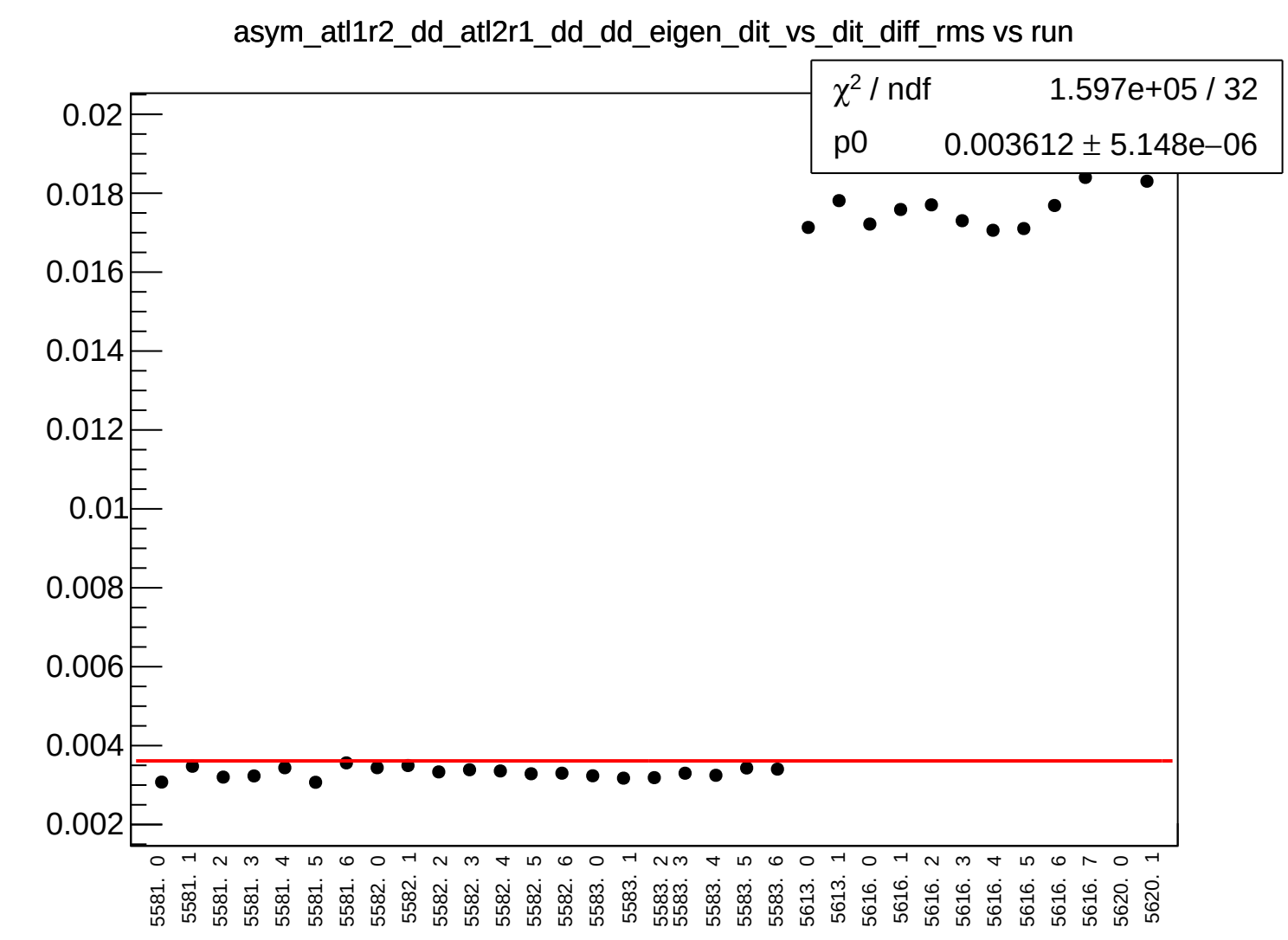

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 32
p0 107.4 ± 0.1525
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

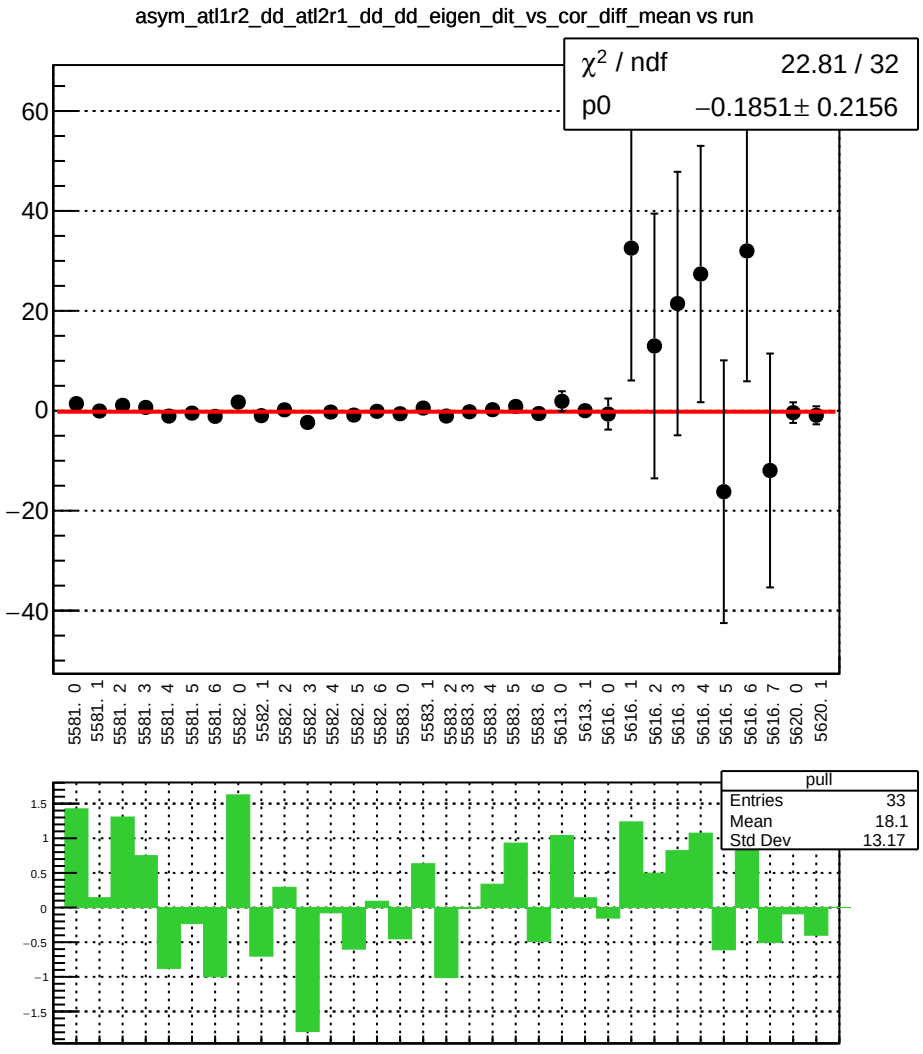

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.81 / 32
p0 −0.1851± 0.2156
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.1
Std Dev 13.17
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1389
Std Dev 0.8198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

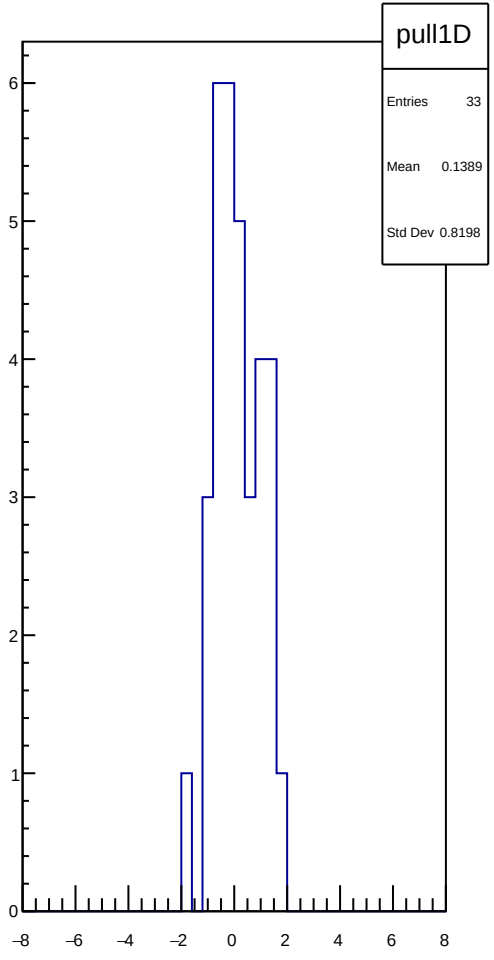

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 32
p0 107.4 ± 0.1525
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

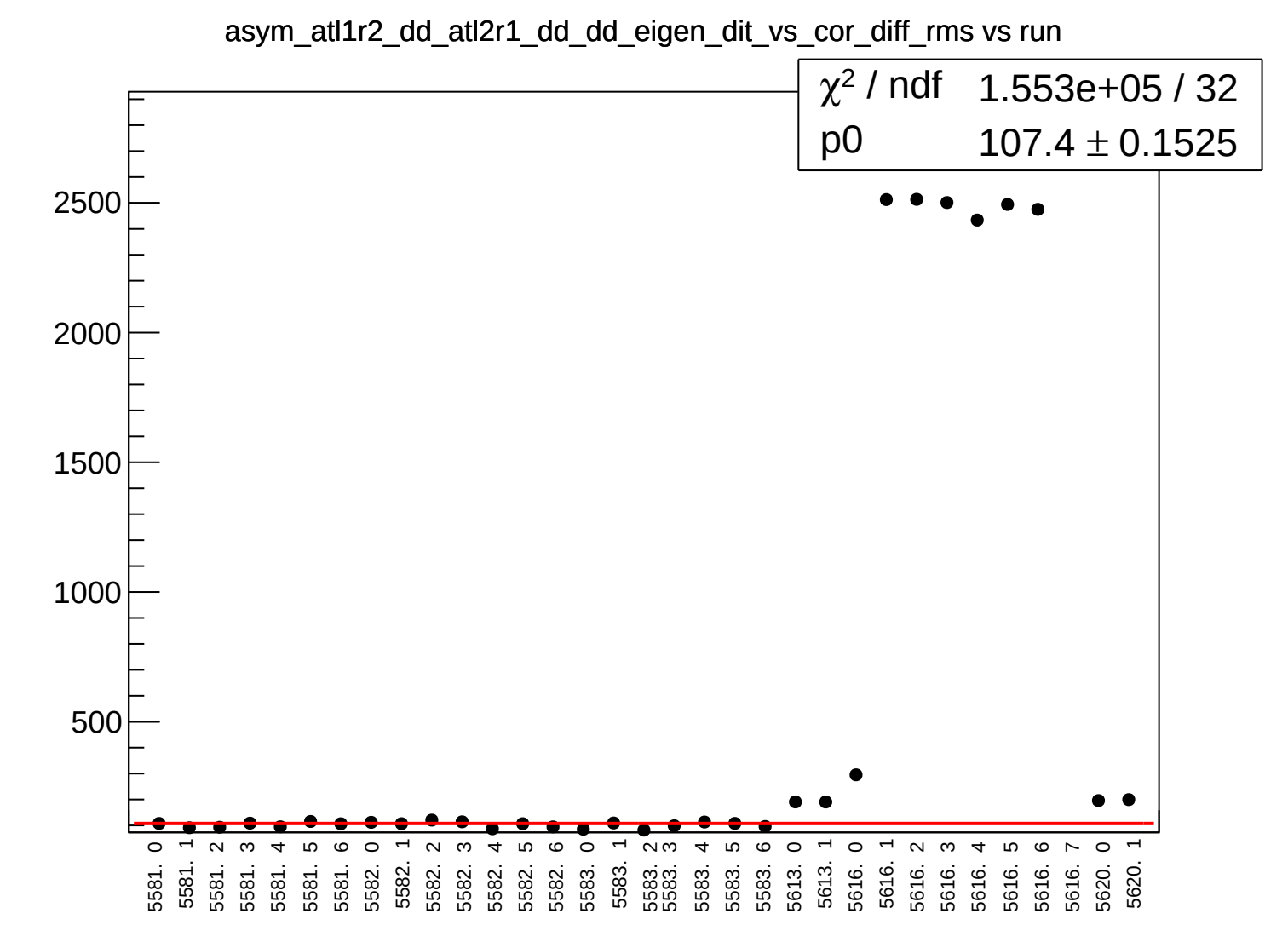

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 30.04 / 32
p0 3.7e−06 ± 7.281e−06
pull
Entries 33
Mean 19.26
Std Dev 0

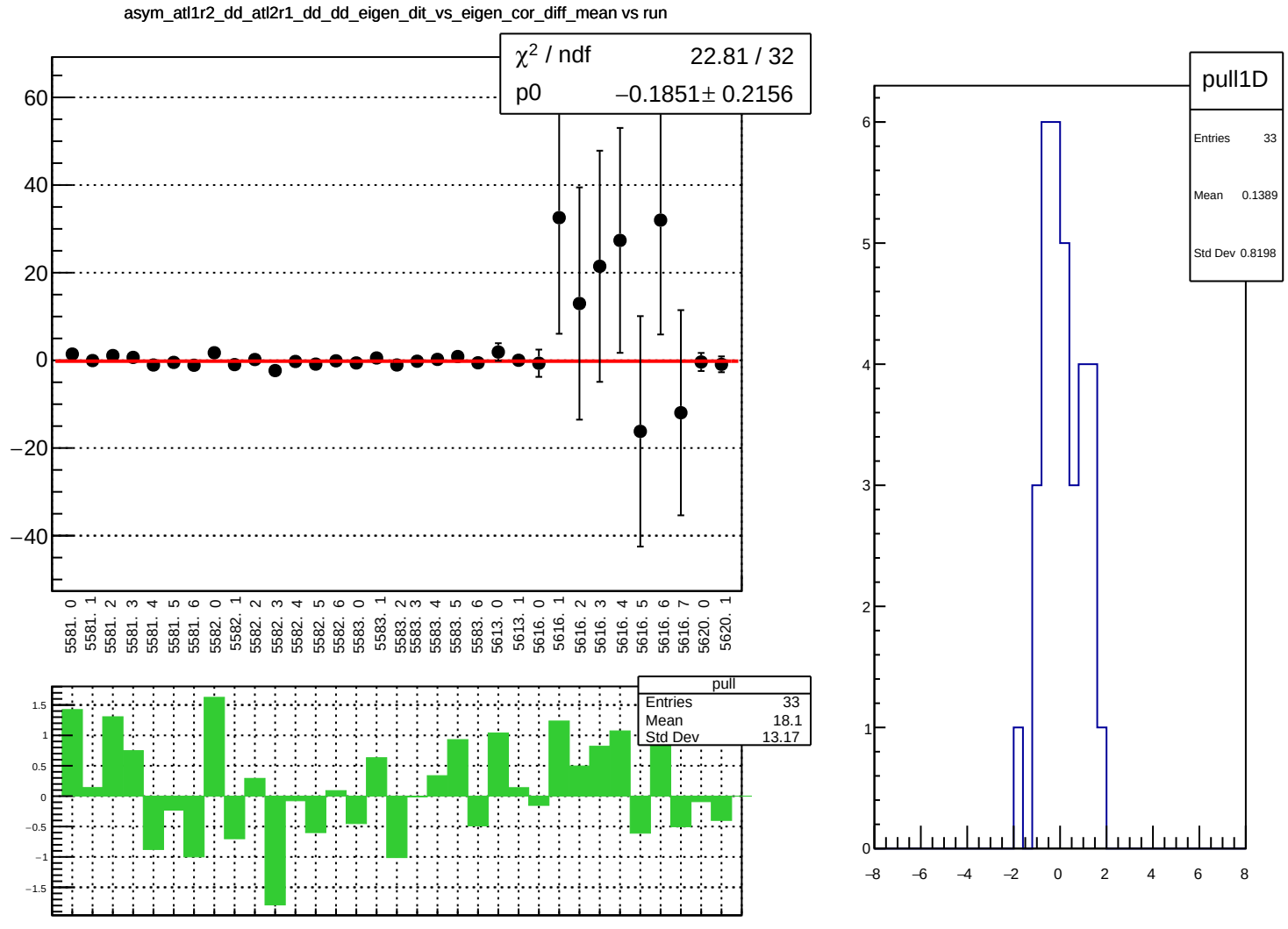

pull1D
Entries 33
Mean −0.03575
Std Dev 0.9534

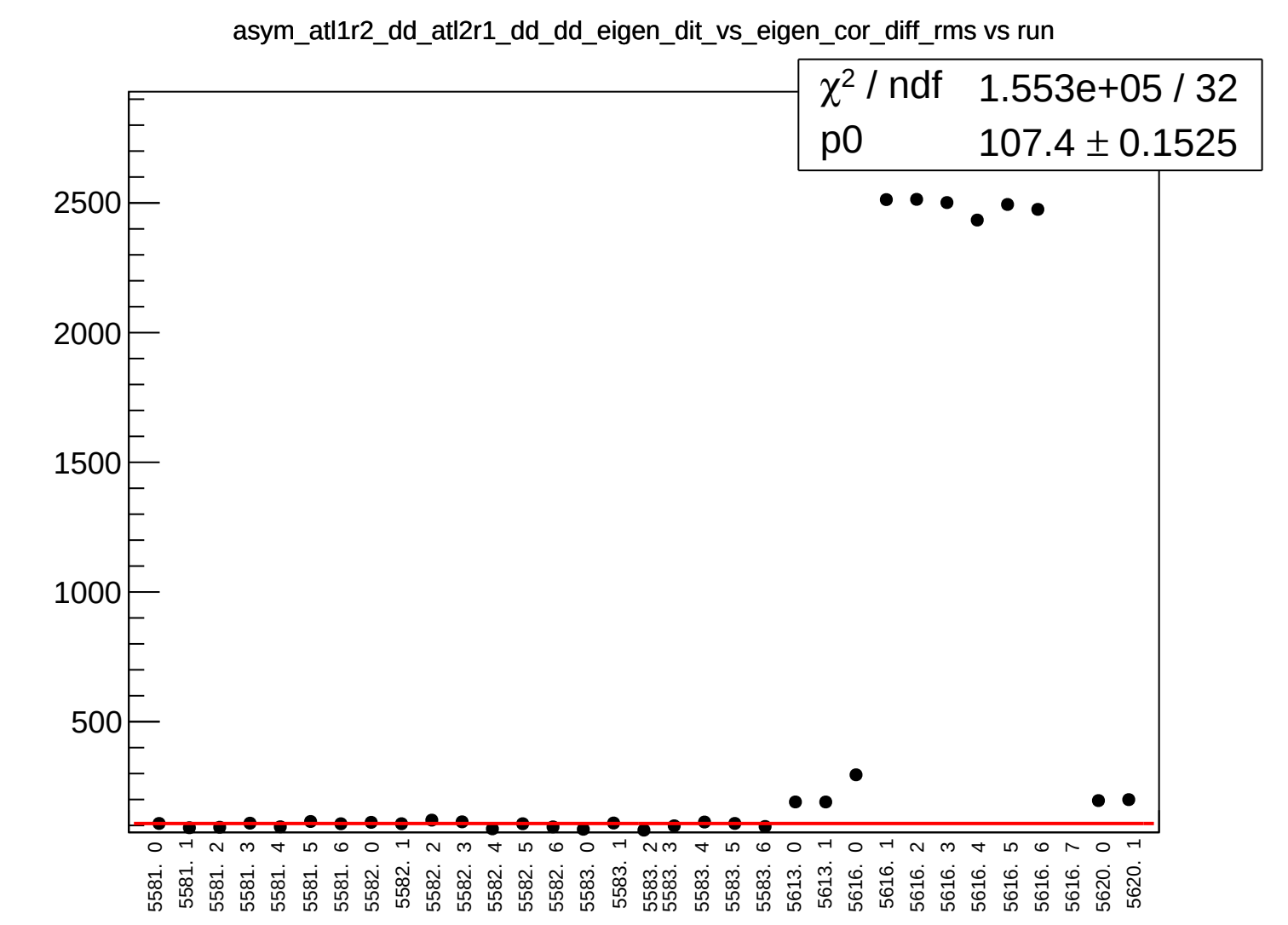

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.597e+05 / 32
p0 0.003612 ± 5.148e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

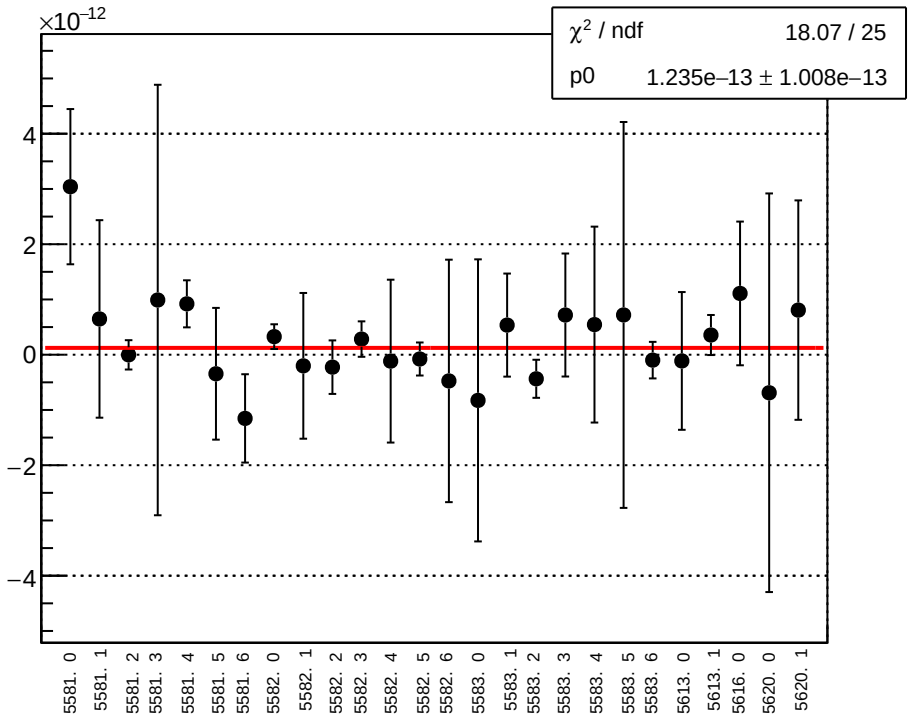

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.81 / 32
p0 −0.1851± 0.2156
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.1
Std Dev 13.17
1.5
1
0.5
0
−0.5
−1
−1.5

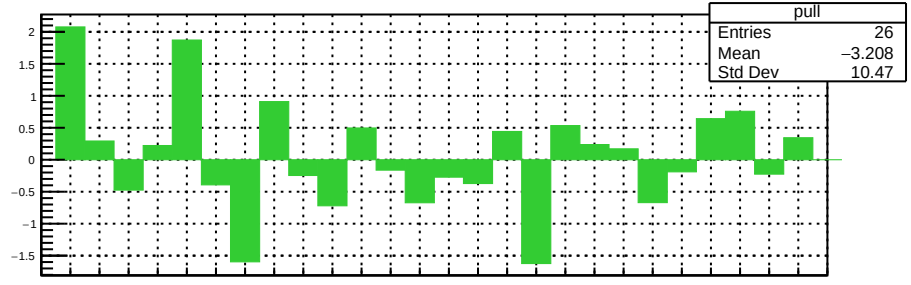

pull1D
Entries 33
Mean 0.1389
Std Dev 0.8198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

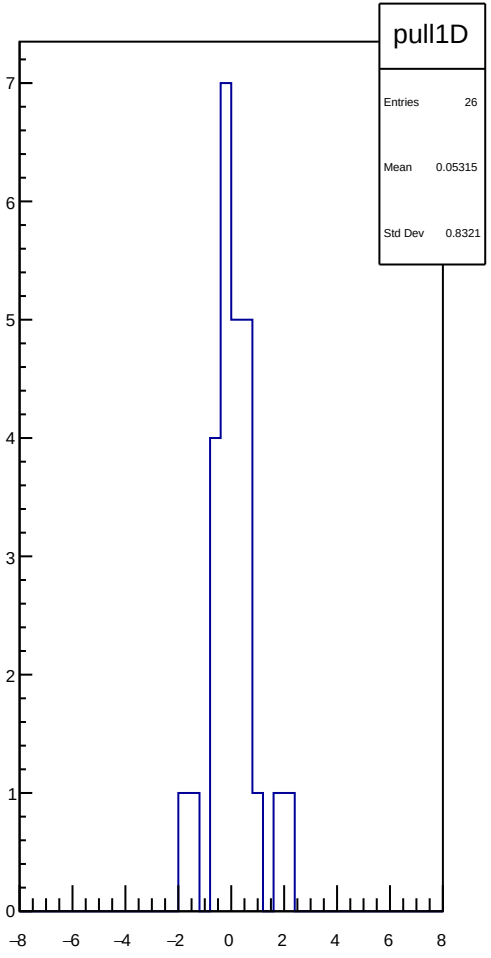

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 32
p0 107.4 ± 0.1525
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

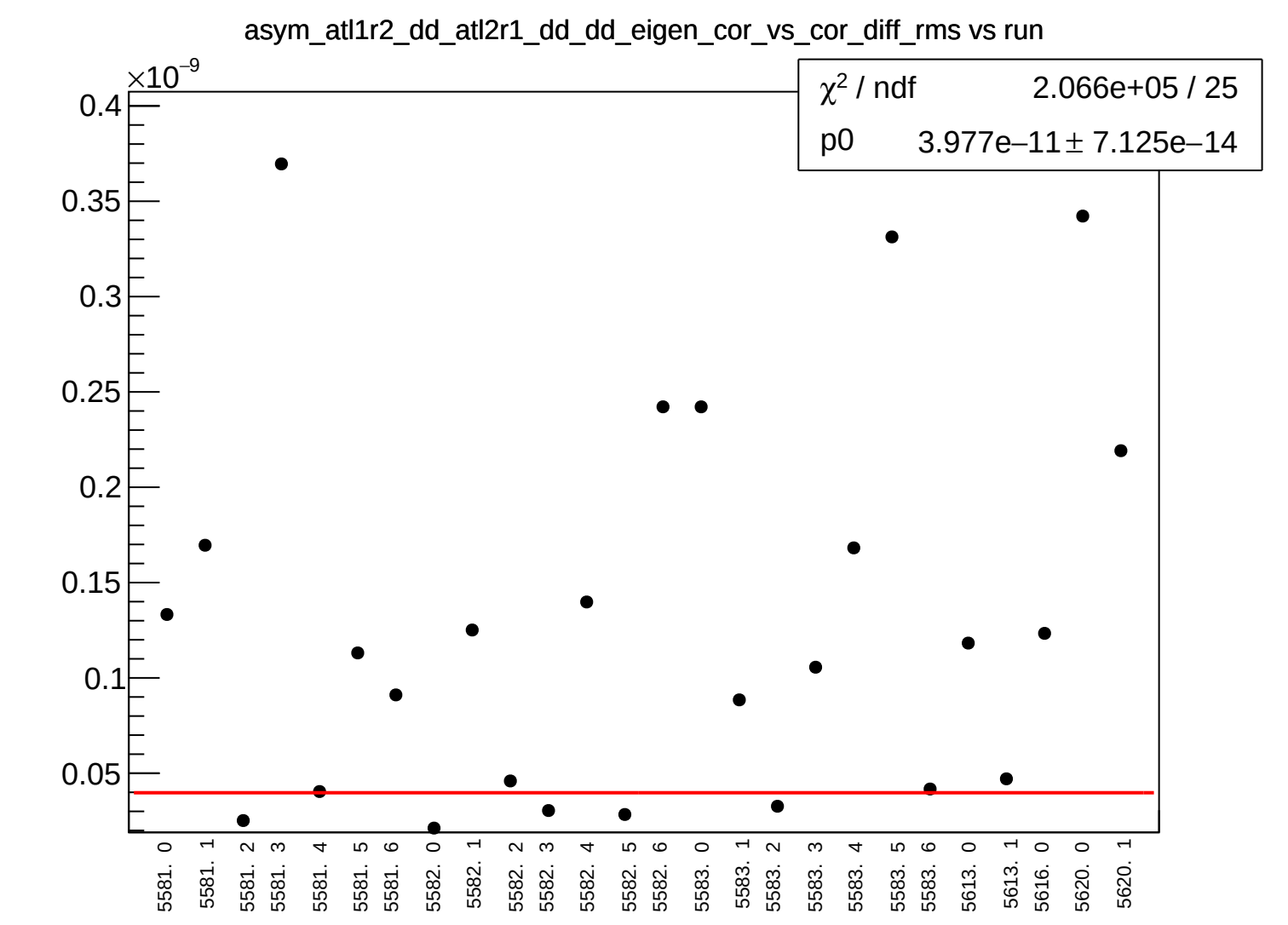

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.81 / 32
p0 −0.1851± 0.2156
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.1
Std Dev 13.17
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1389
Std Dev 0.8198
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

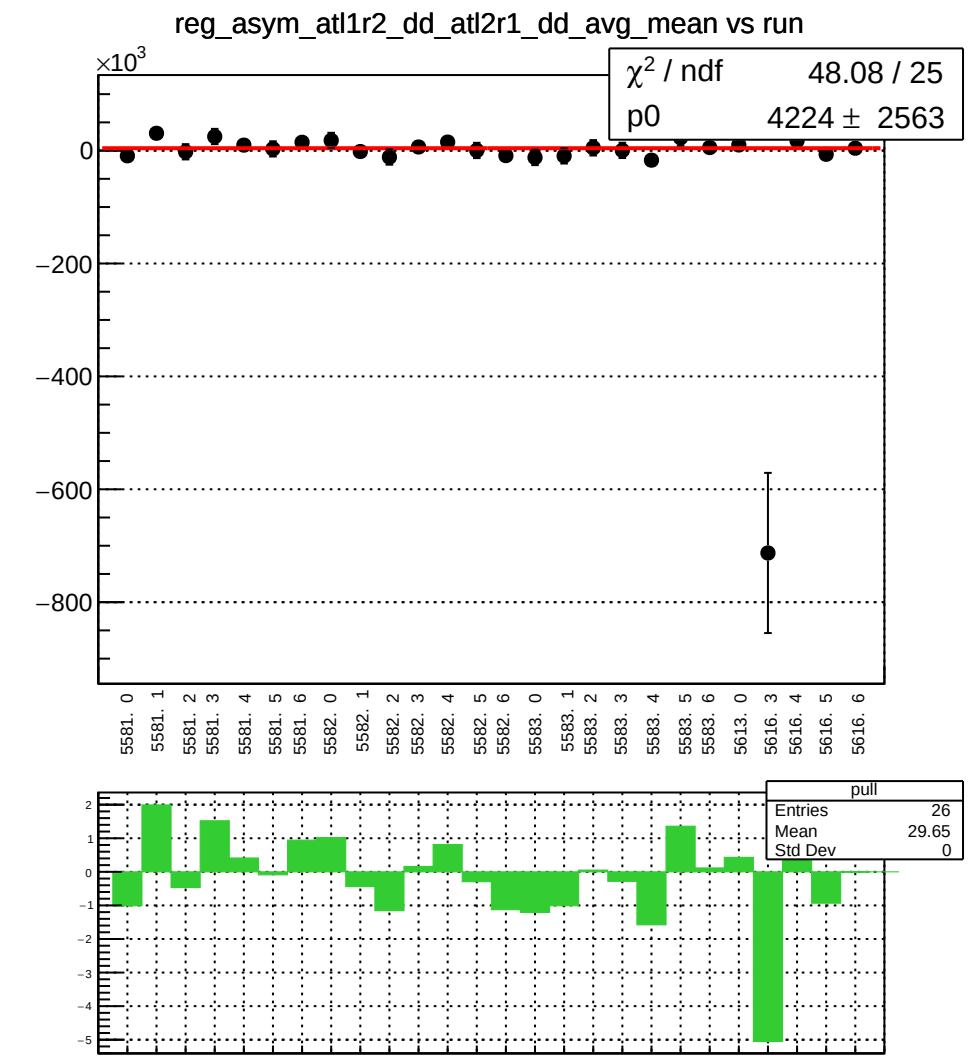

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.553e+05 / 32
p0 107.4 ± 0.1525
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

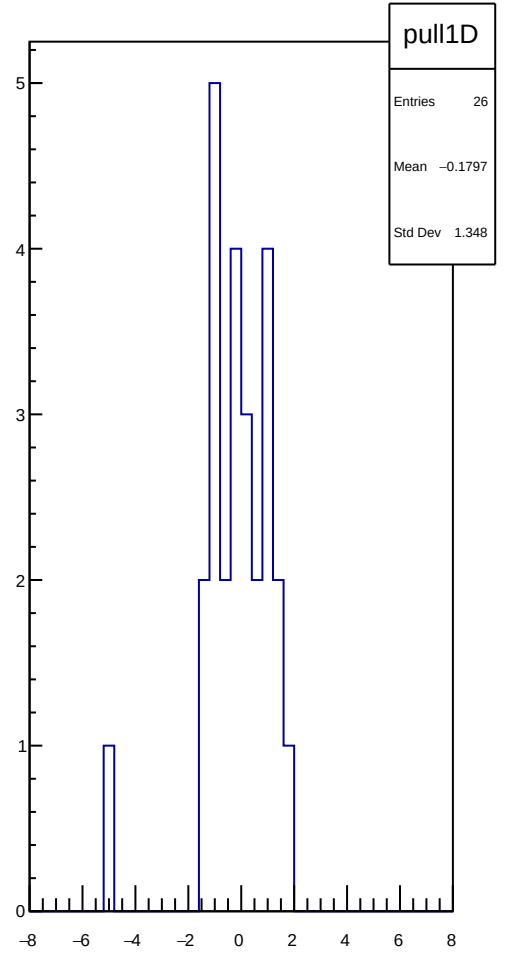

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 18.07 / 25
p0 1.235e−13 ± 1.008e−13
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

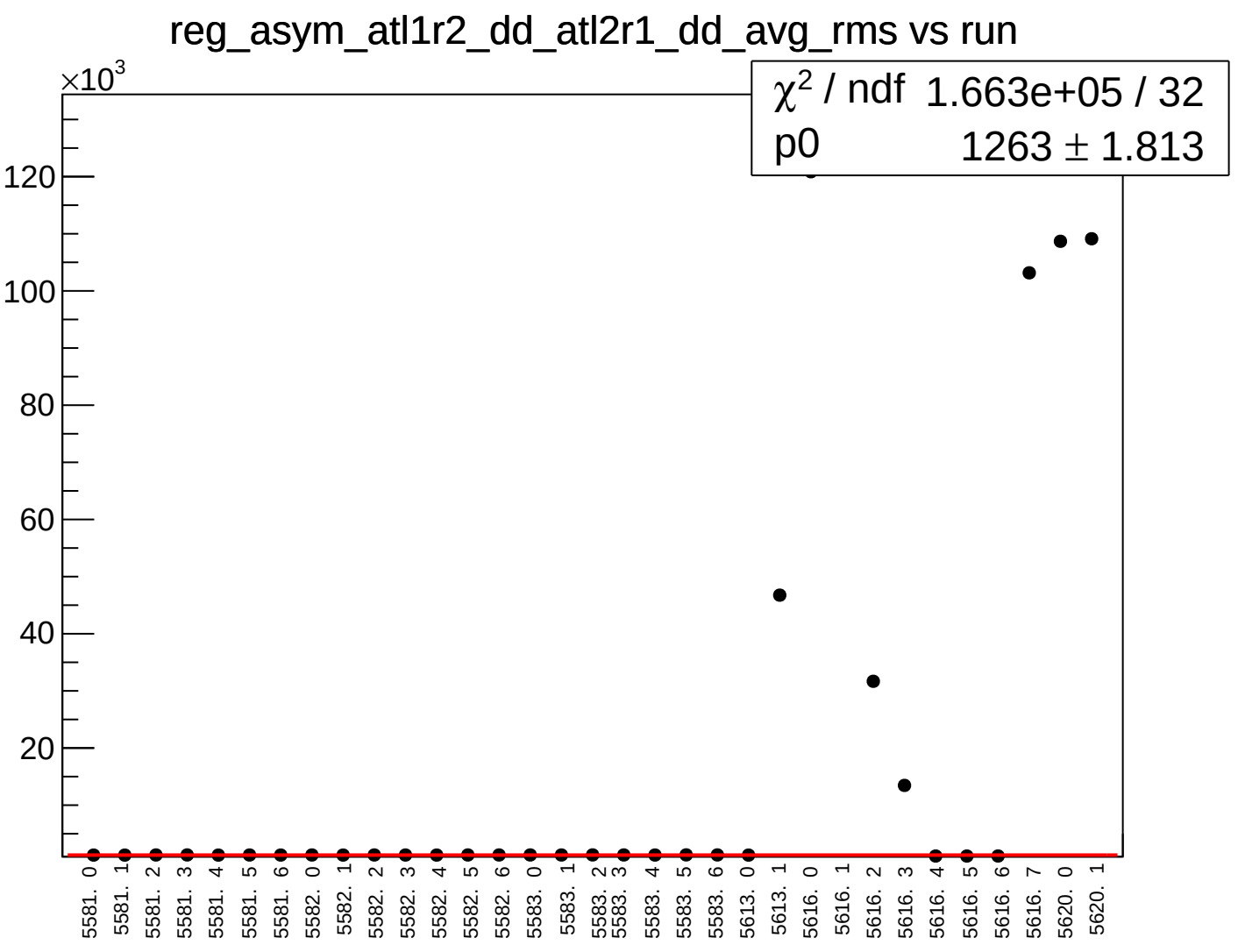

pull
Entries 26
Mean −3.208
Std Dev 10.47
2
1.5
1
0.5
0
−0.5
−1
−1.5

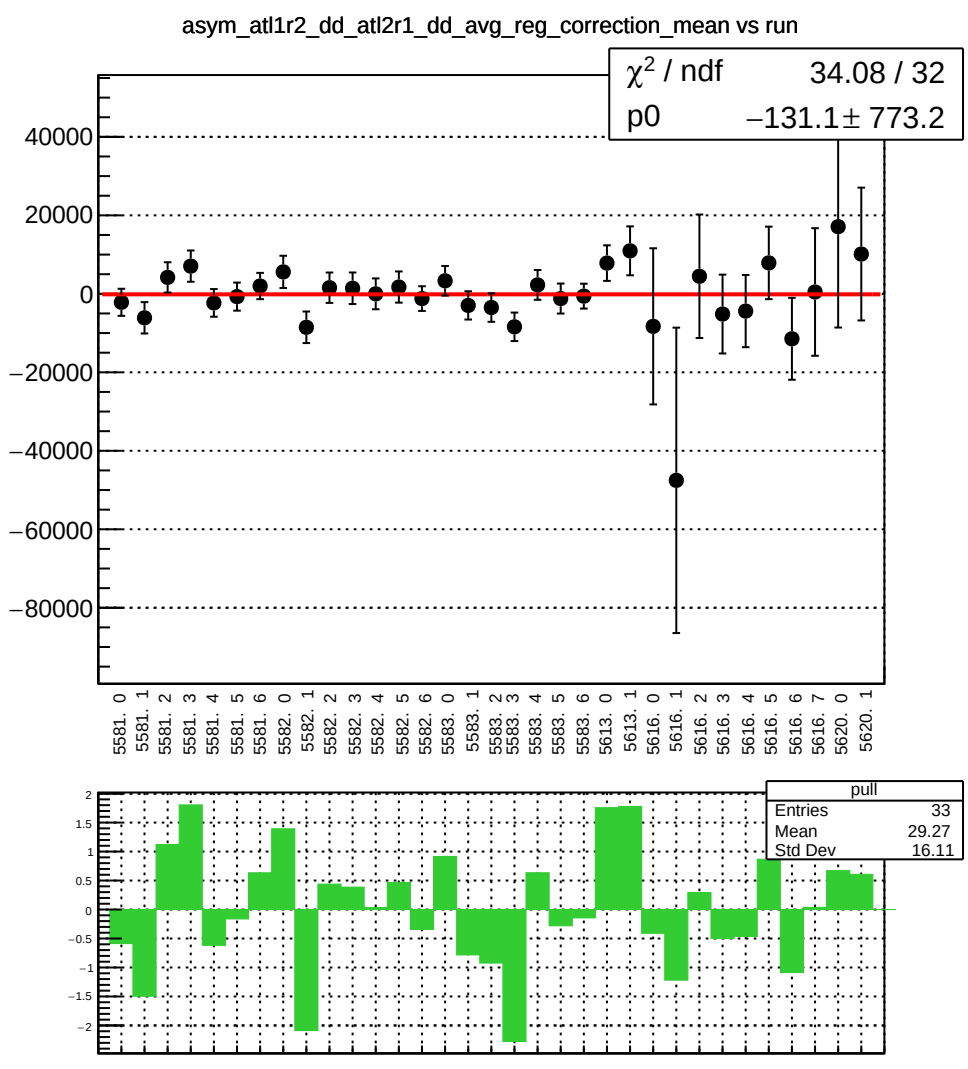

pull1D
Entries 26
Mean 0.05315
Std Dev 0.8321
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

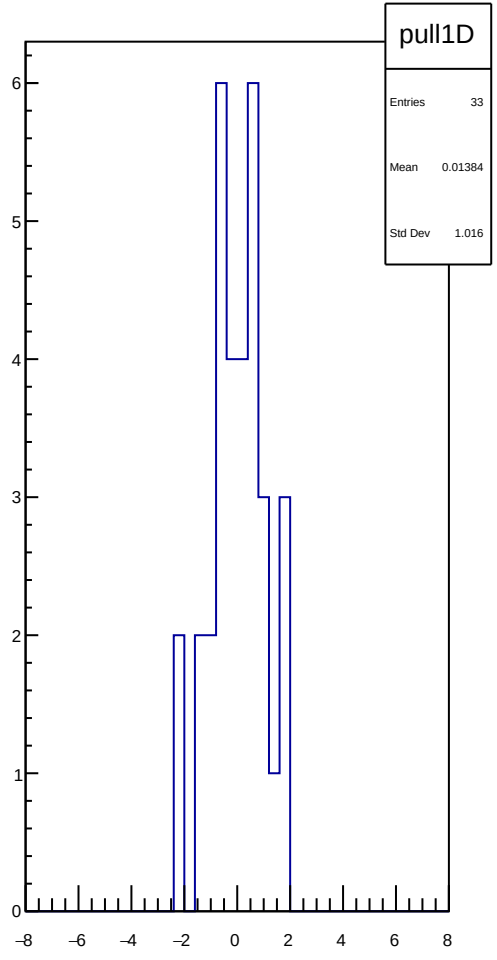

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.066e+05 / 25
p0 3.977e−11 ± 7.125e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

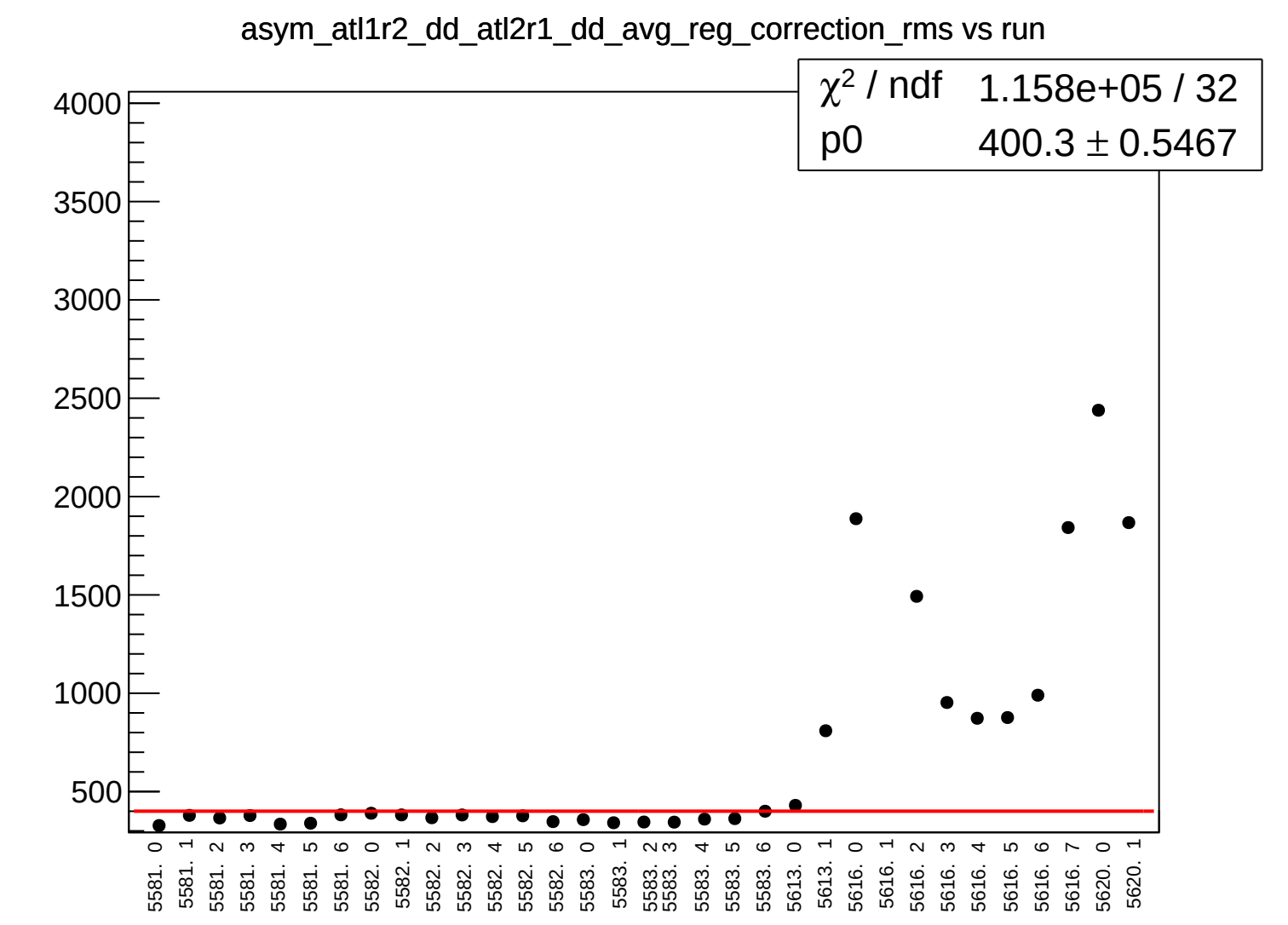

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 48.08 / 25
p0 4224 ± 2563
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 29.65
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

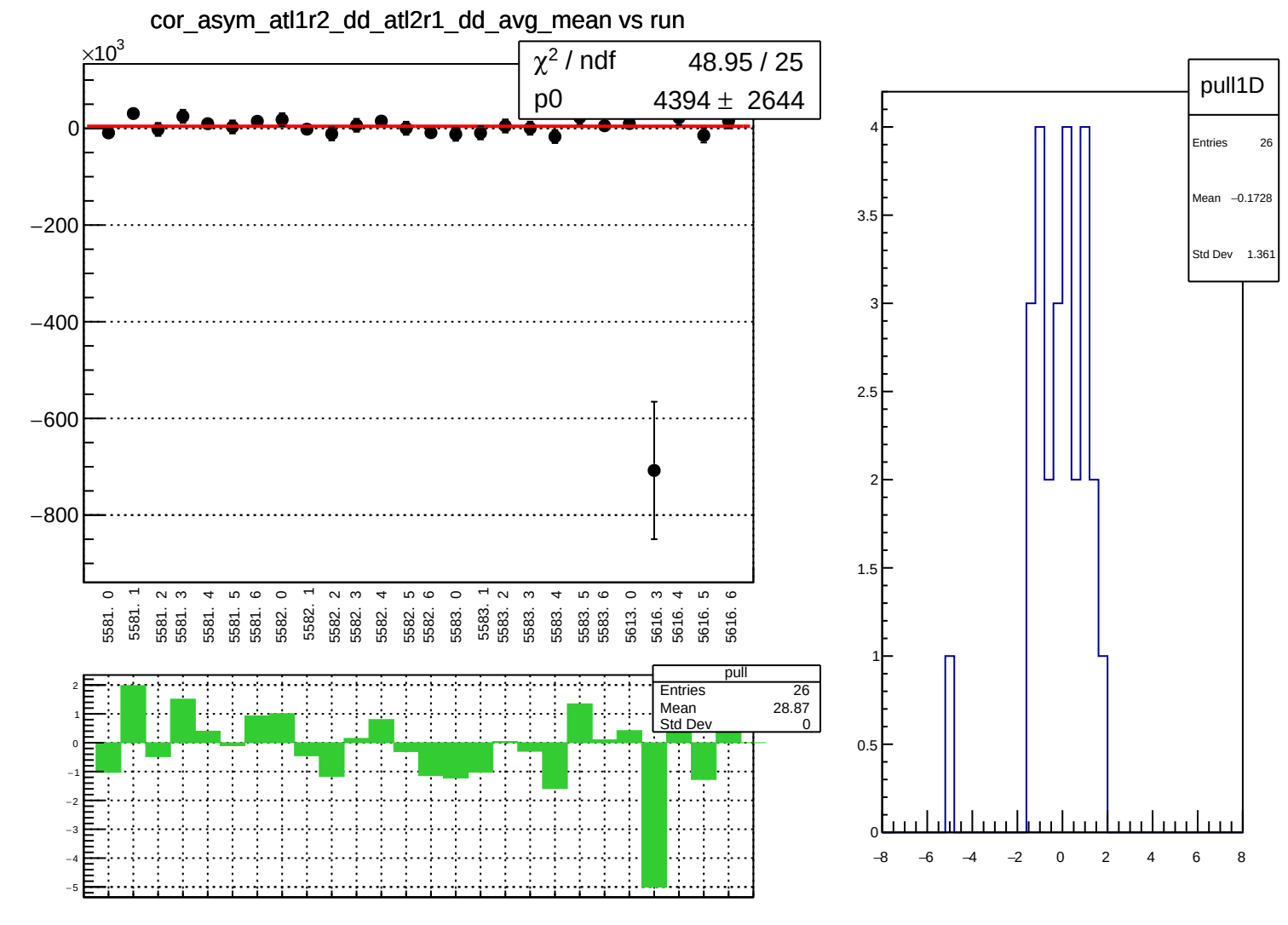

pull1D
Entries 26
Mean −0.1797
Std Dev 1.348
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

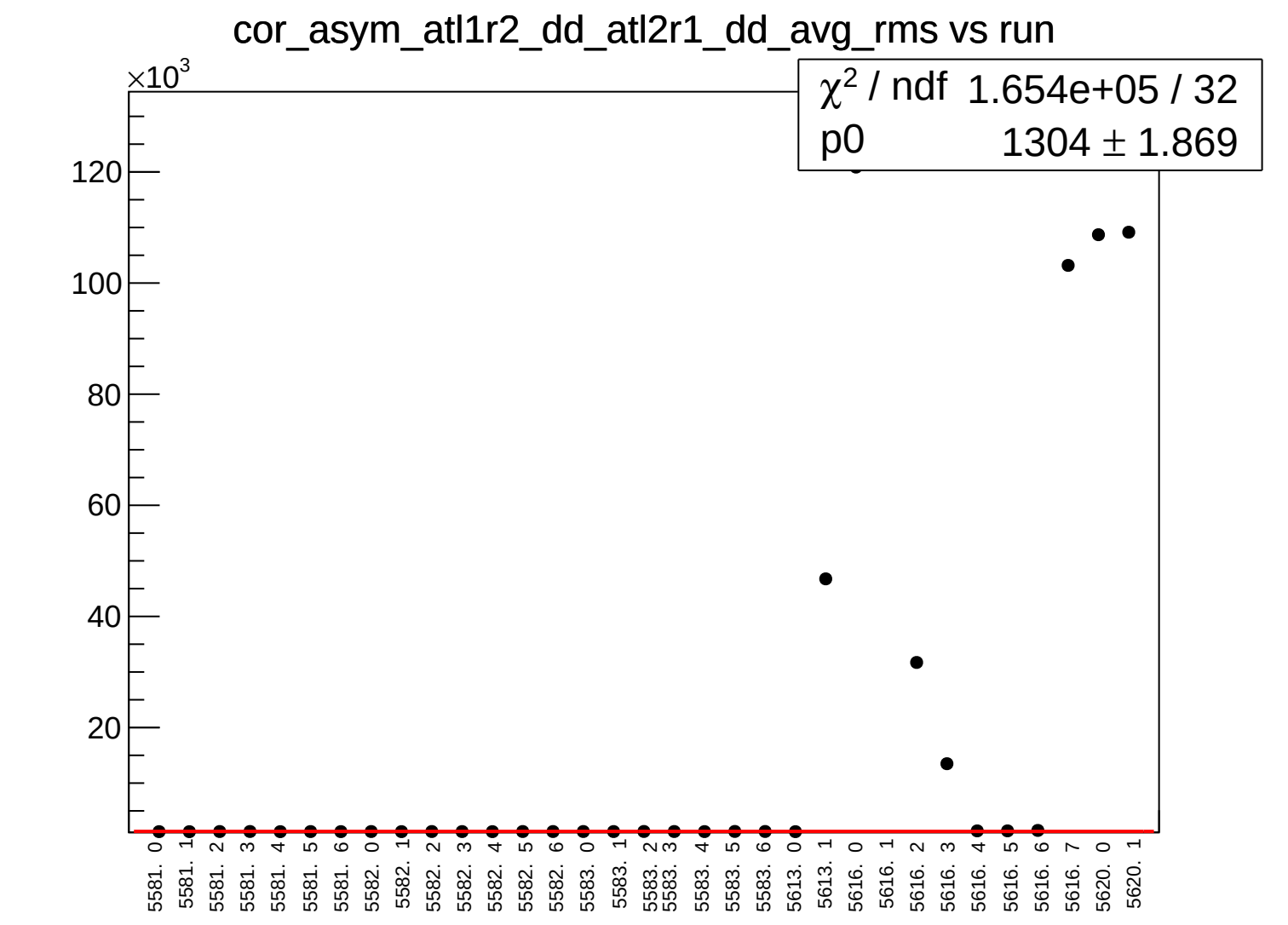

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.663e+05 / 32
p0 1263 ± 1.813
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

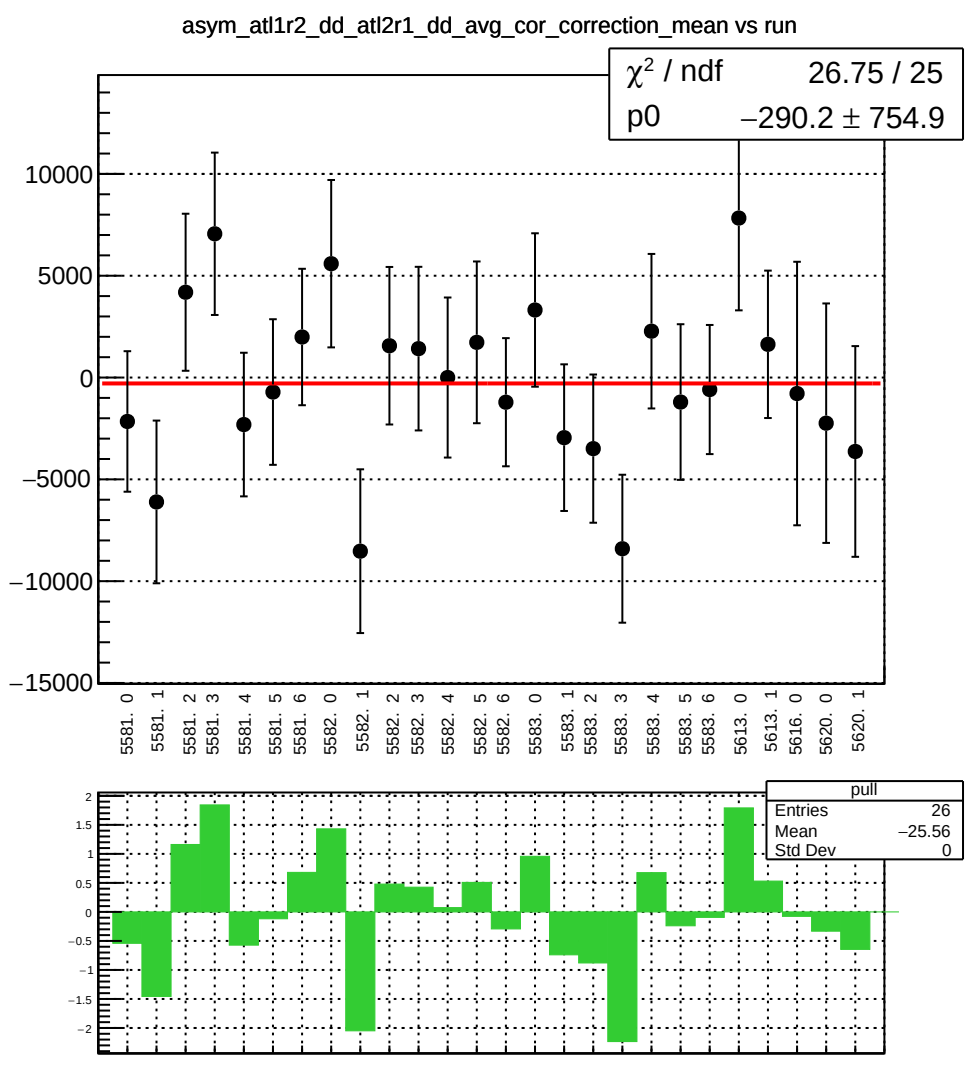

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 34.08 / 32
p0 −131.1± 773.2
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.27
Std Dev 16.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

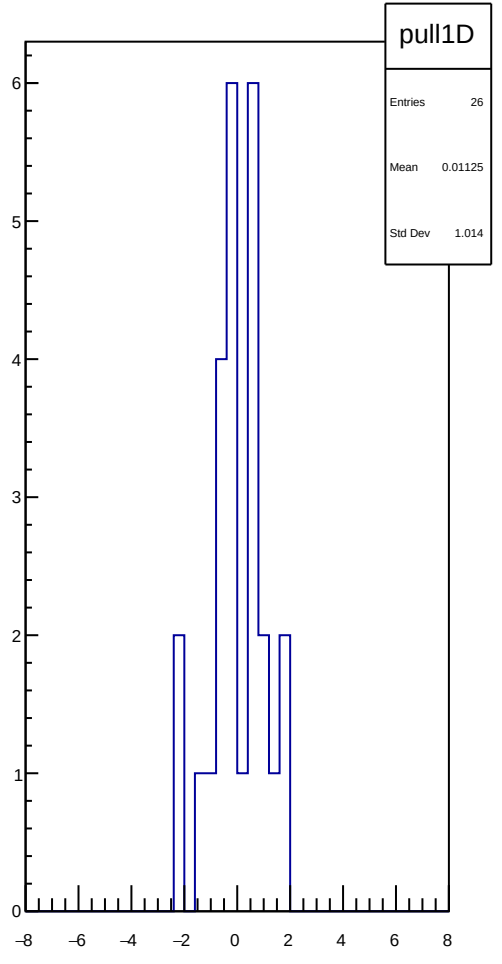

pull1D
Entries 33
Mean 0.01384
Std Dev 1.016
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

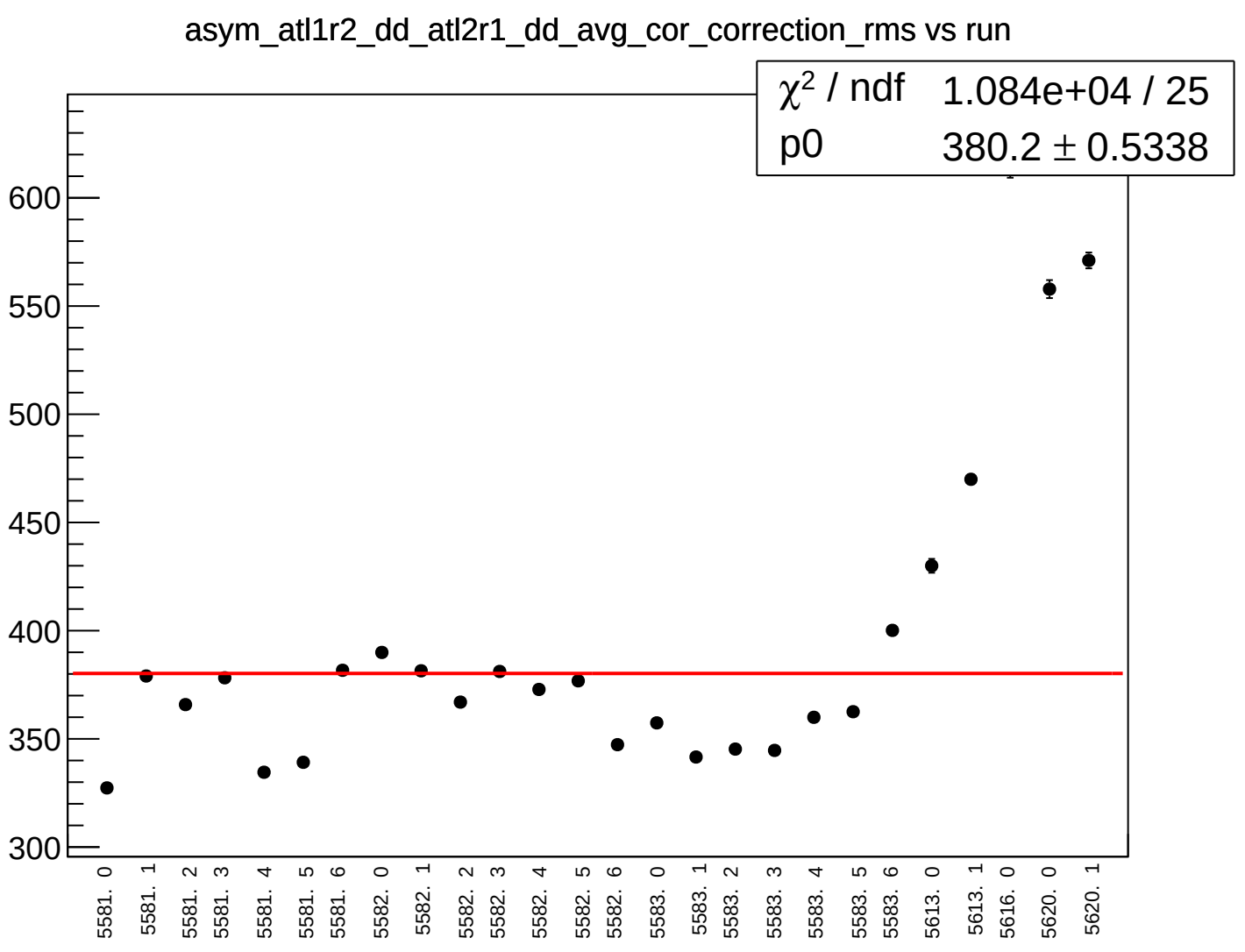

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.158e+05 / 32
p0 400.3 ± 0.5467
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

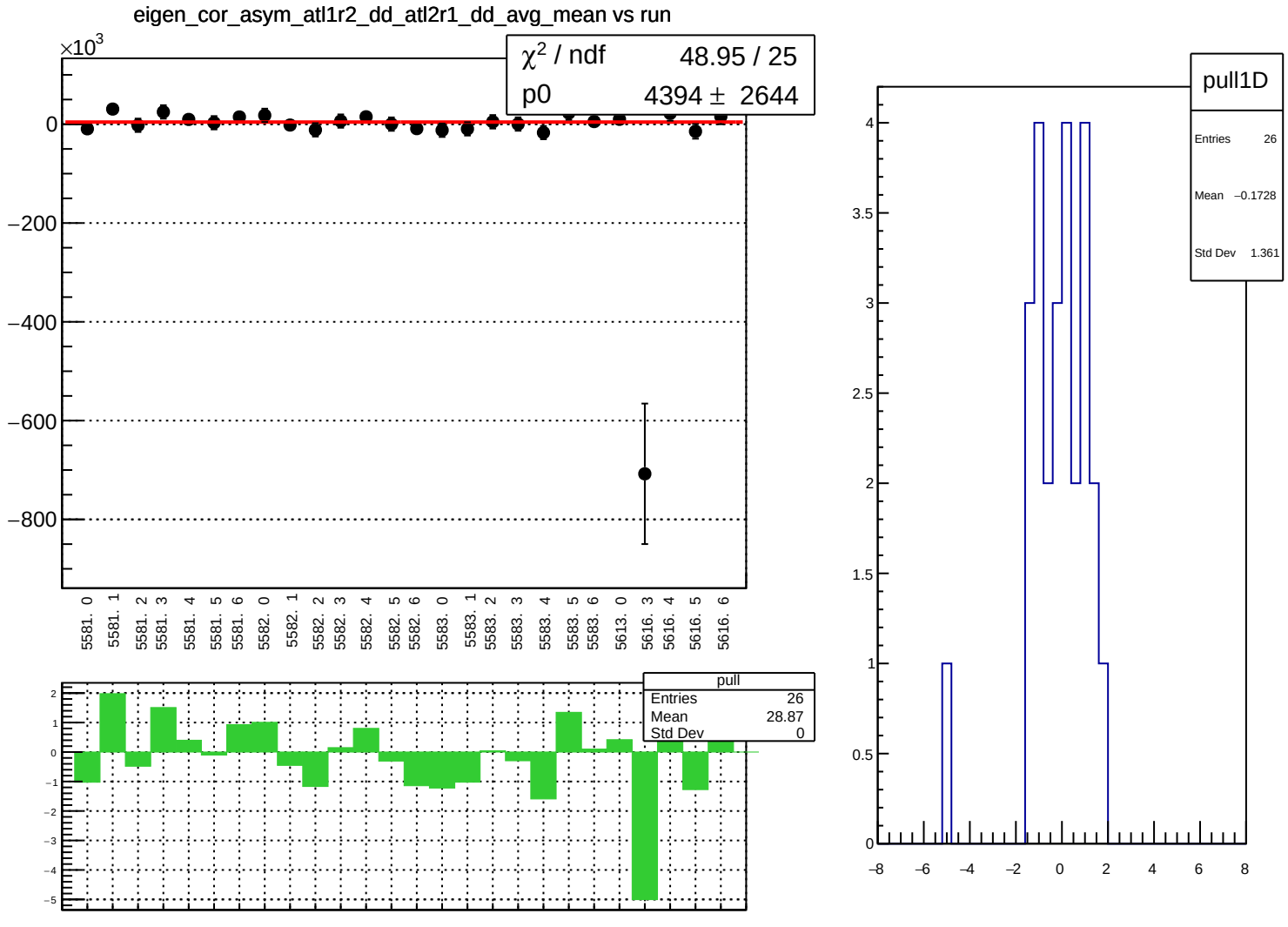

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 48.95 / 25
p0 4394 ± 2644
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 28.87
Std Dev 0
pull1D
Entries 26
Mean −0.1728
Std Dev 1.361

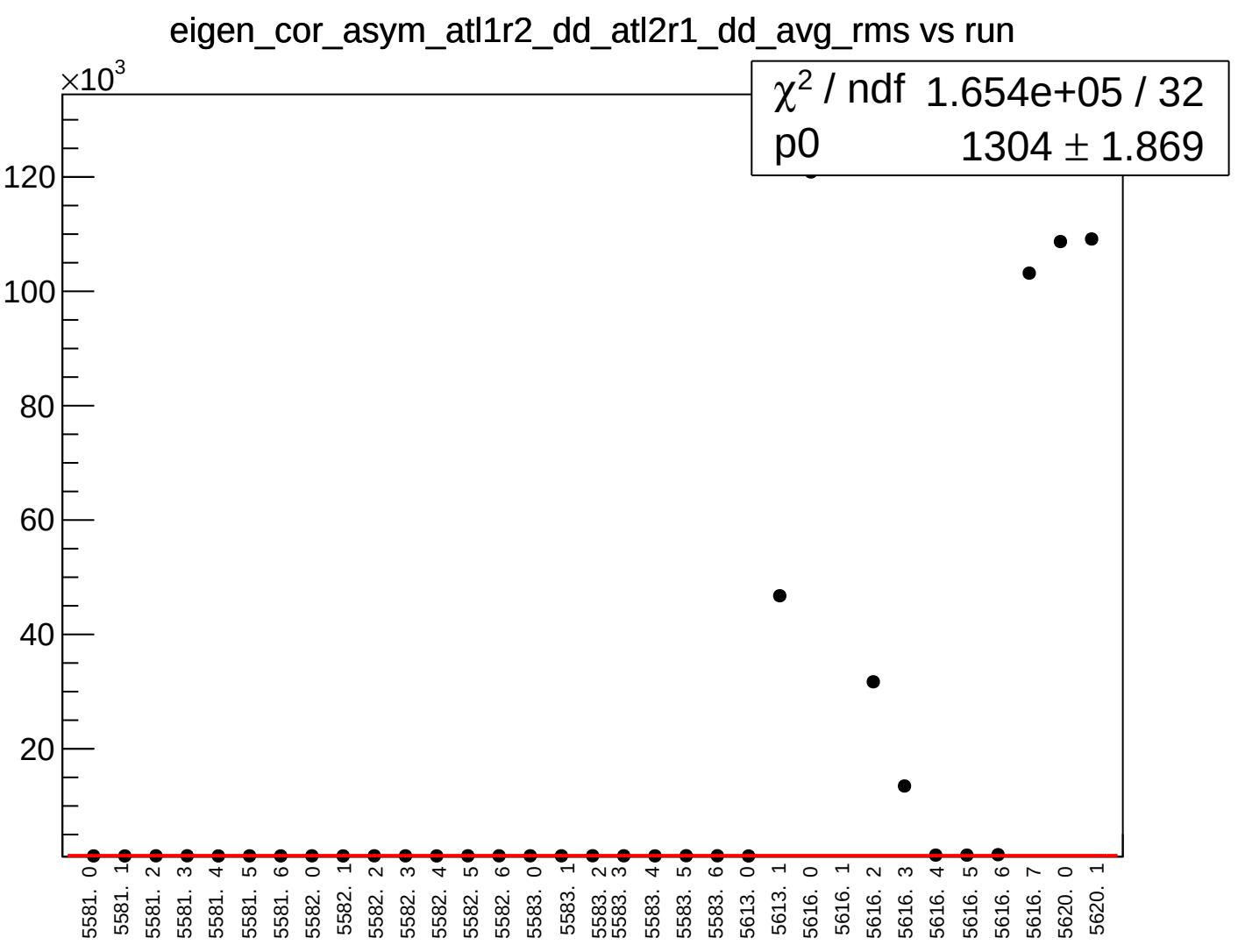

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.654e+05 / 32
p0 1304 ± 1.869
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

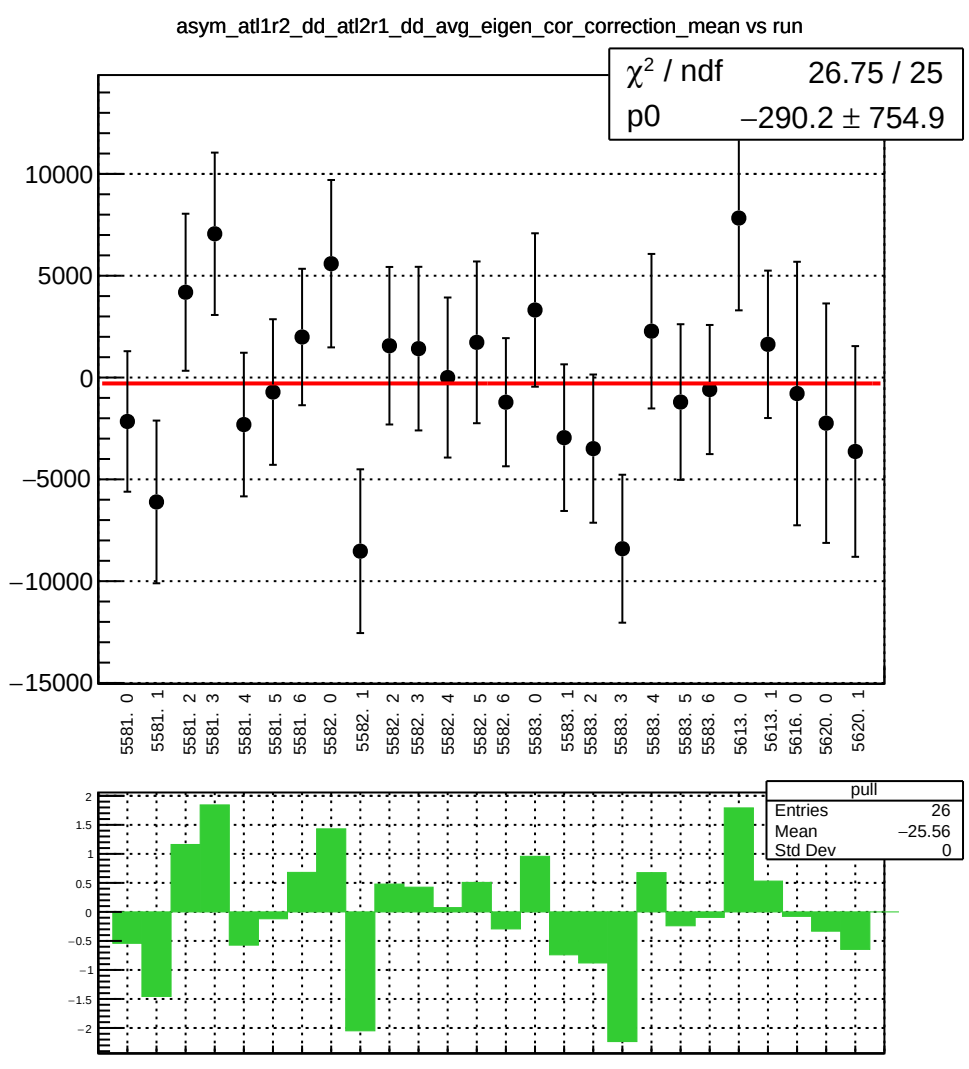

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 26.75 / 25
p0 −290.2 ± 754.9
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −25.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

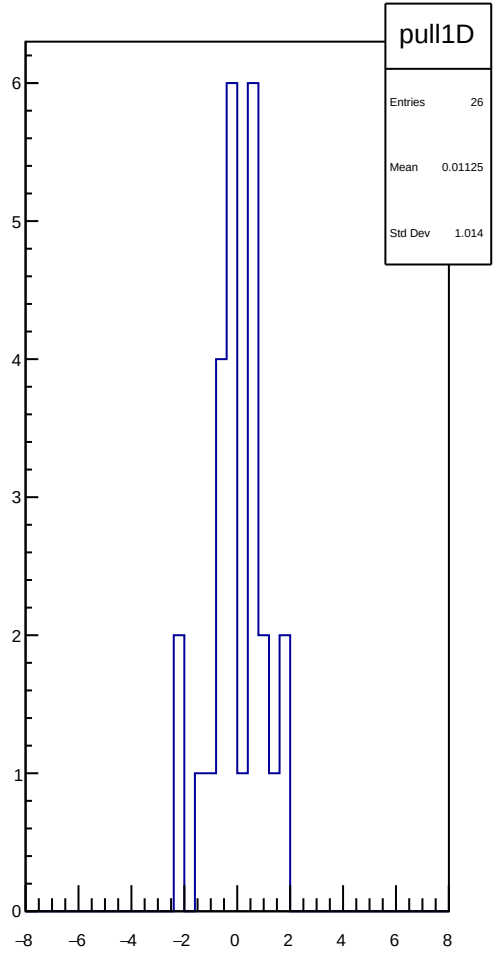

pull1D
Entries 26
Mean 0.01125
Std Dev 1.014
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

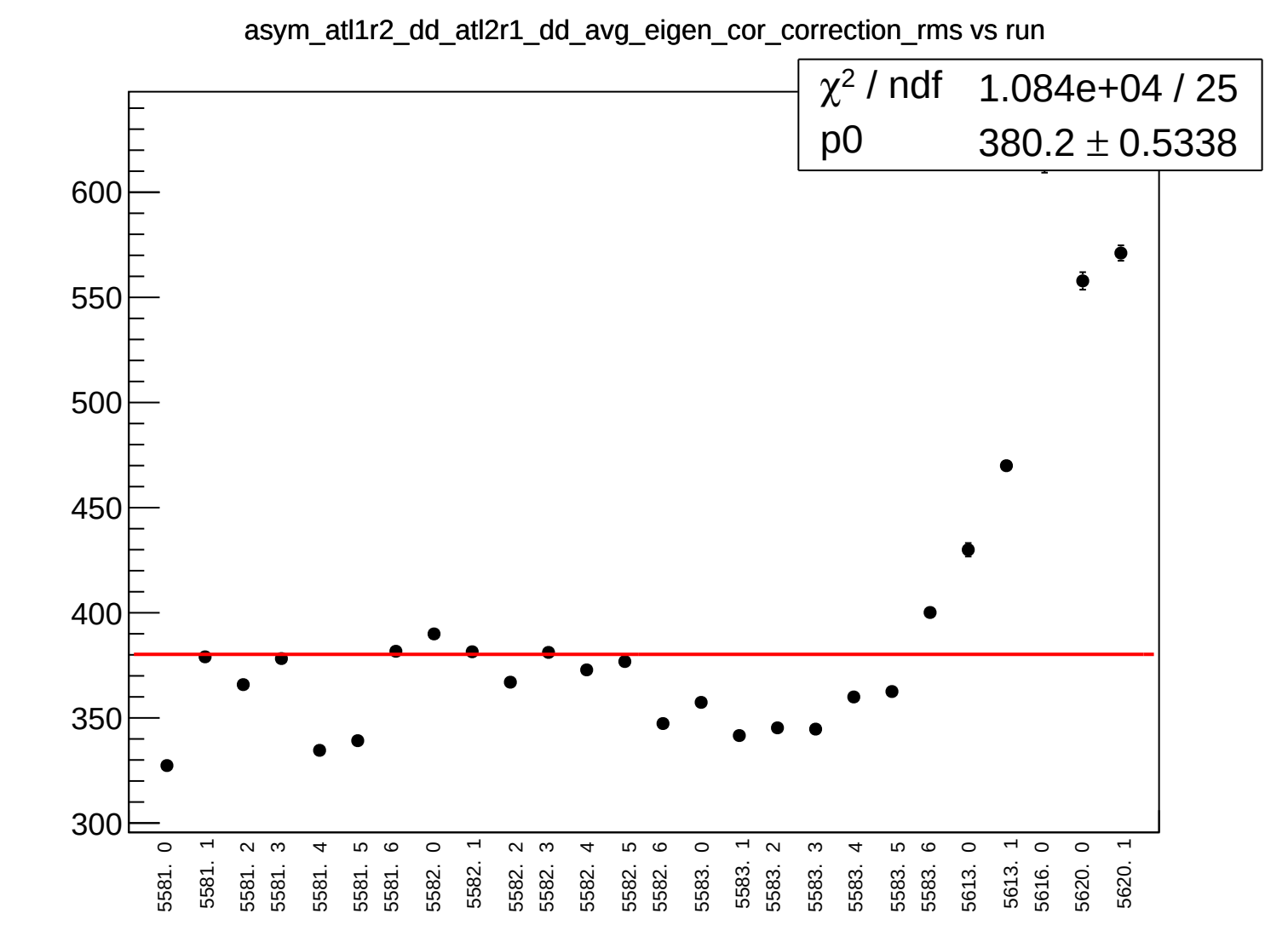

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.084e+04 / 25
p0 380.2 ± 0.5338
600
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

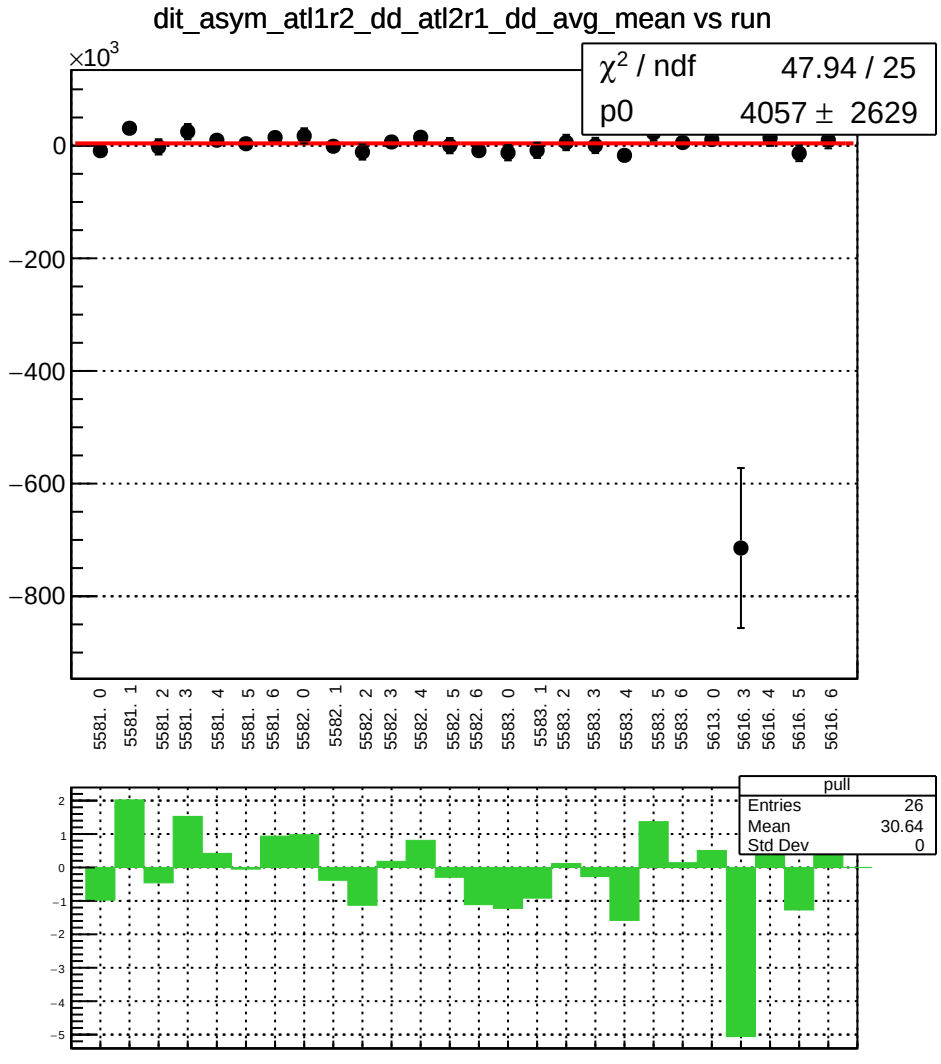

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 48.95 / 25
p0 4394 ± 2644
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 28.87
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 26
Mean −0.1728
Std Dev 1.361
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

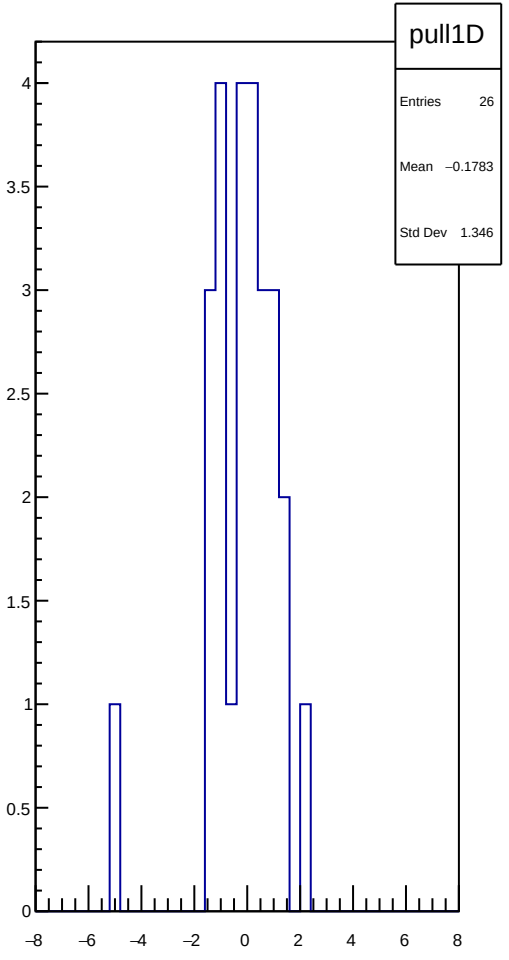

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.654e+05 / 32
p0 1304 ± 1.869
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

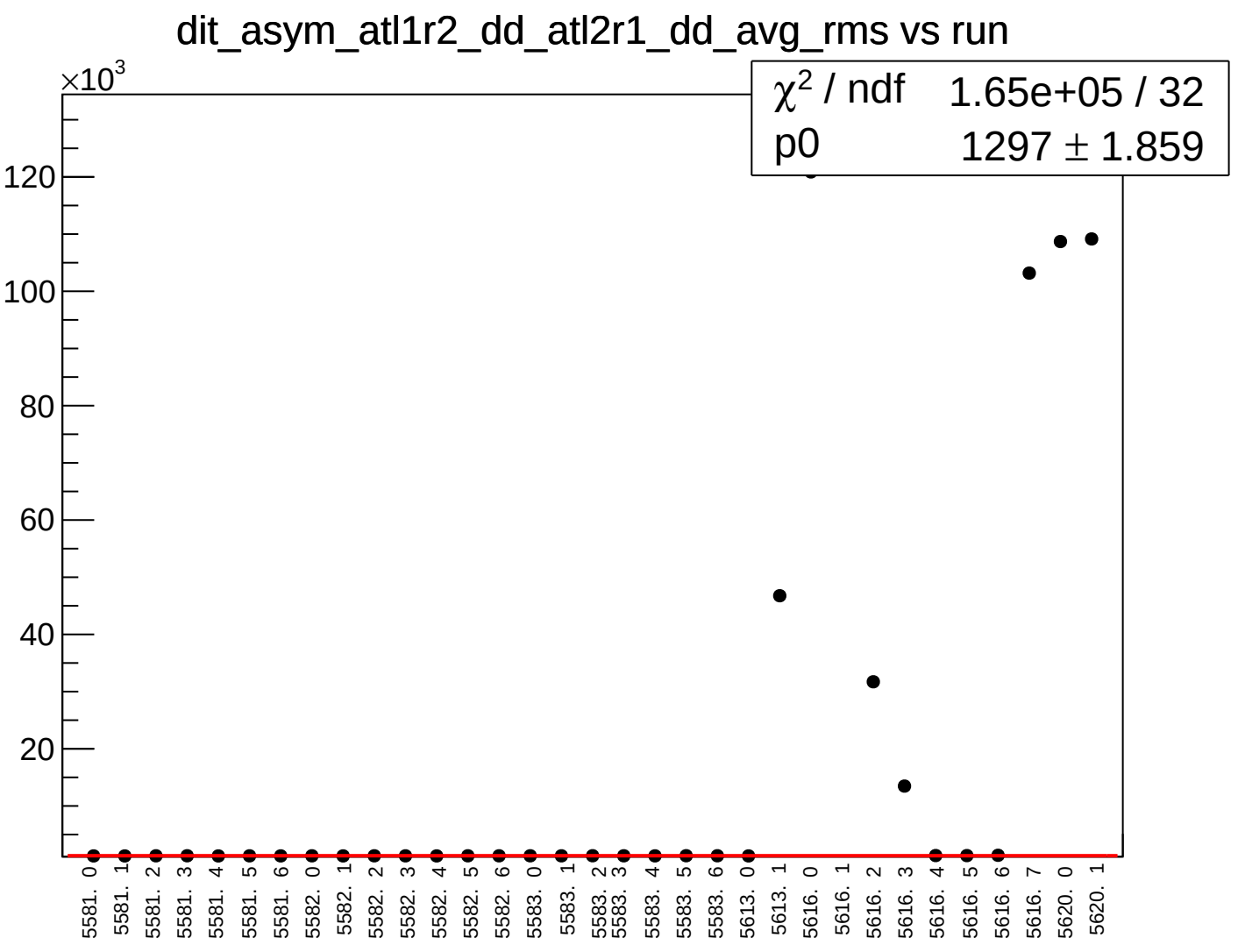

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 26.75 / 25
p0 −290.2 ± 754.9
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −25.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

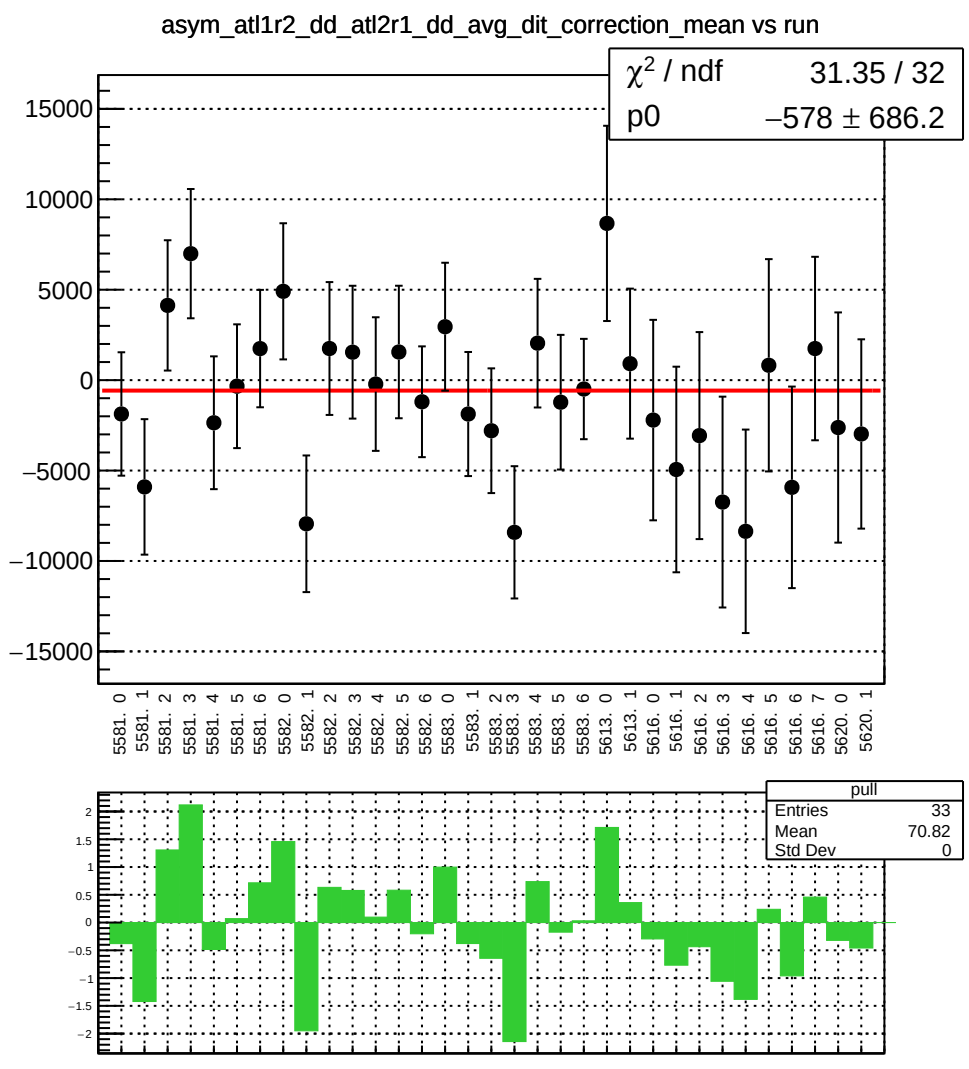

pull1D
Entries 26
Mean 0.01125
Std Dev 1.014
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

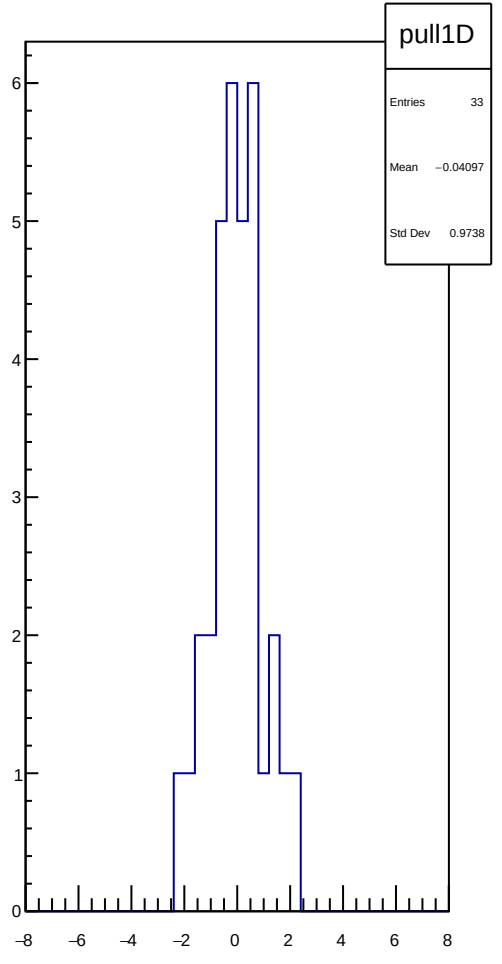

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.084e+04 / 25
p0 380.2 ± 0.5338
600
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

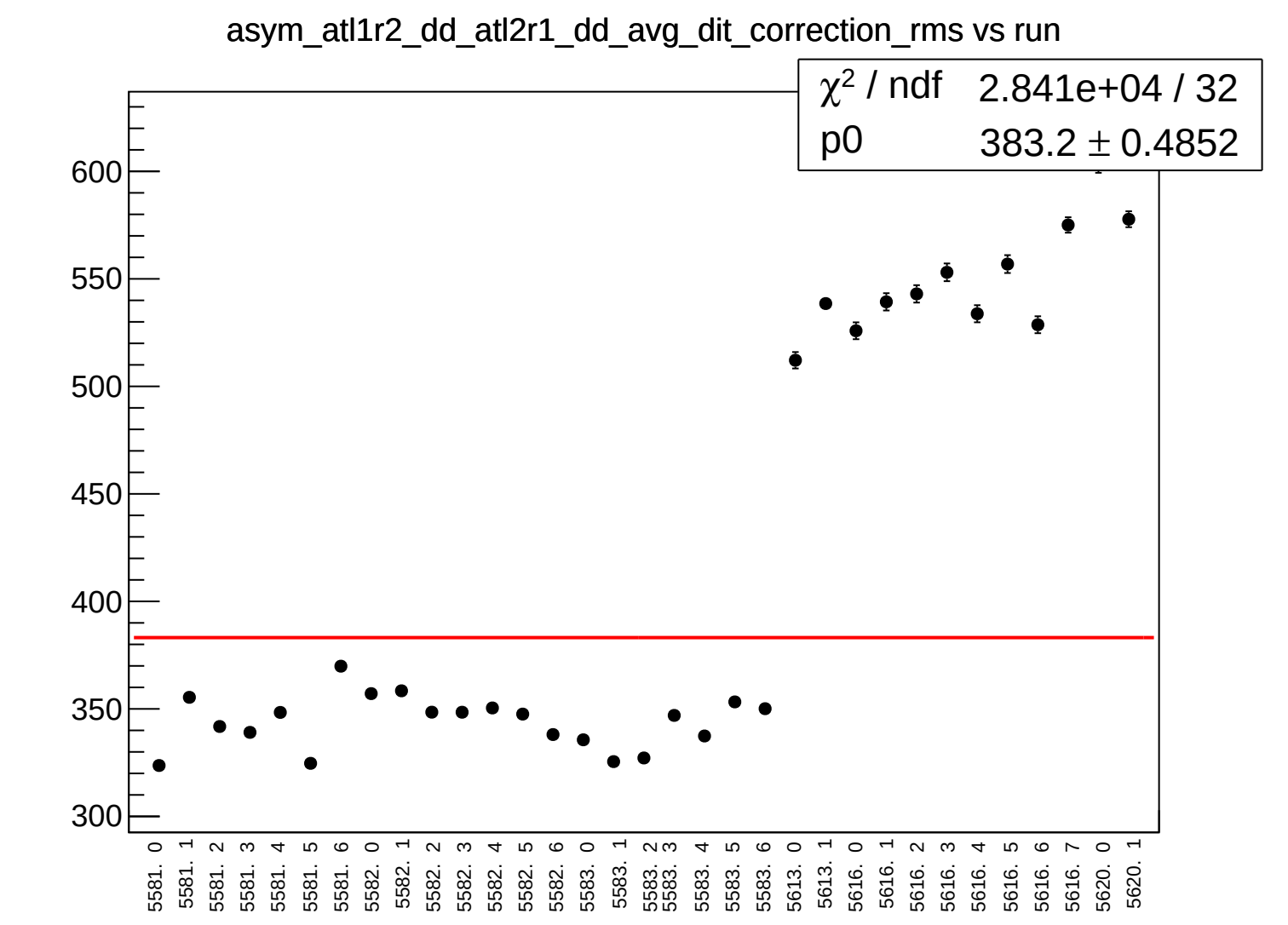

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 47.94 / 25
p0 4057 ± 2629
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 30.64
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

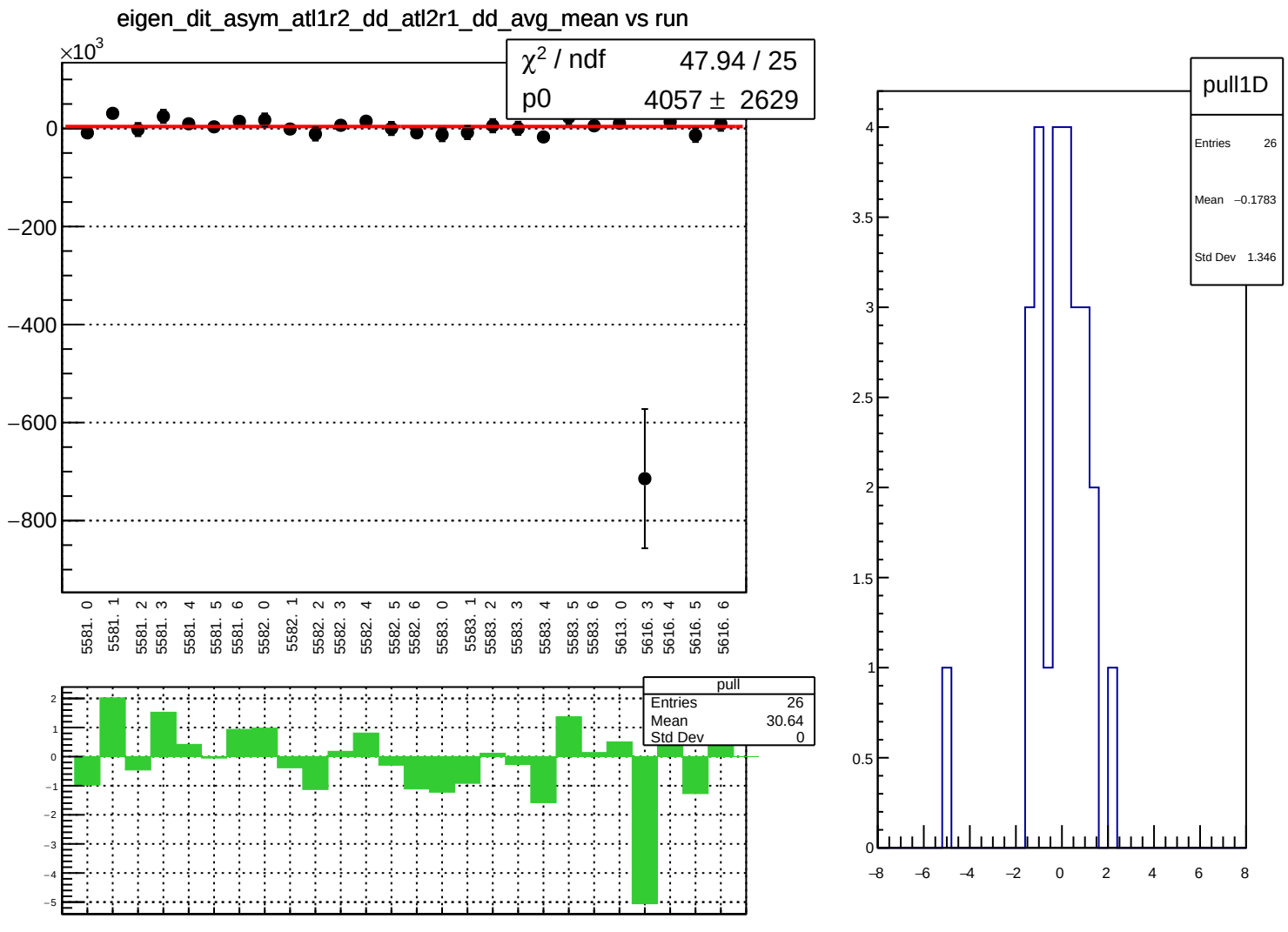

pull1D
Entries 26
Mean −0.1783
Std Dev 1.346
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

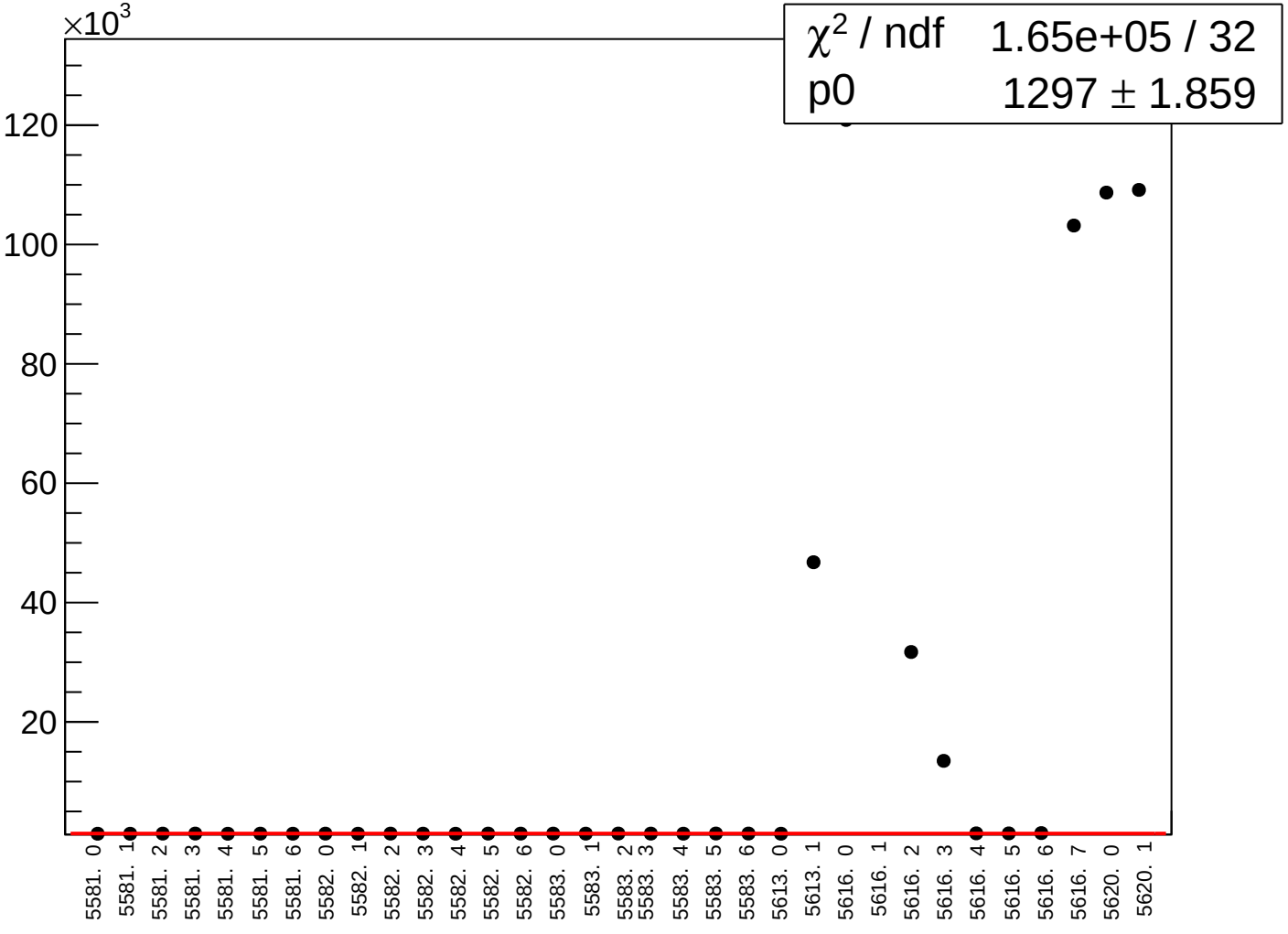

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.65e+05 / 32
p0 1297 ± 1.859
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

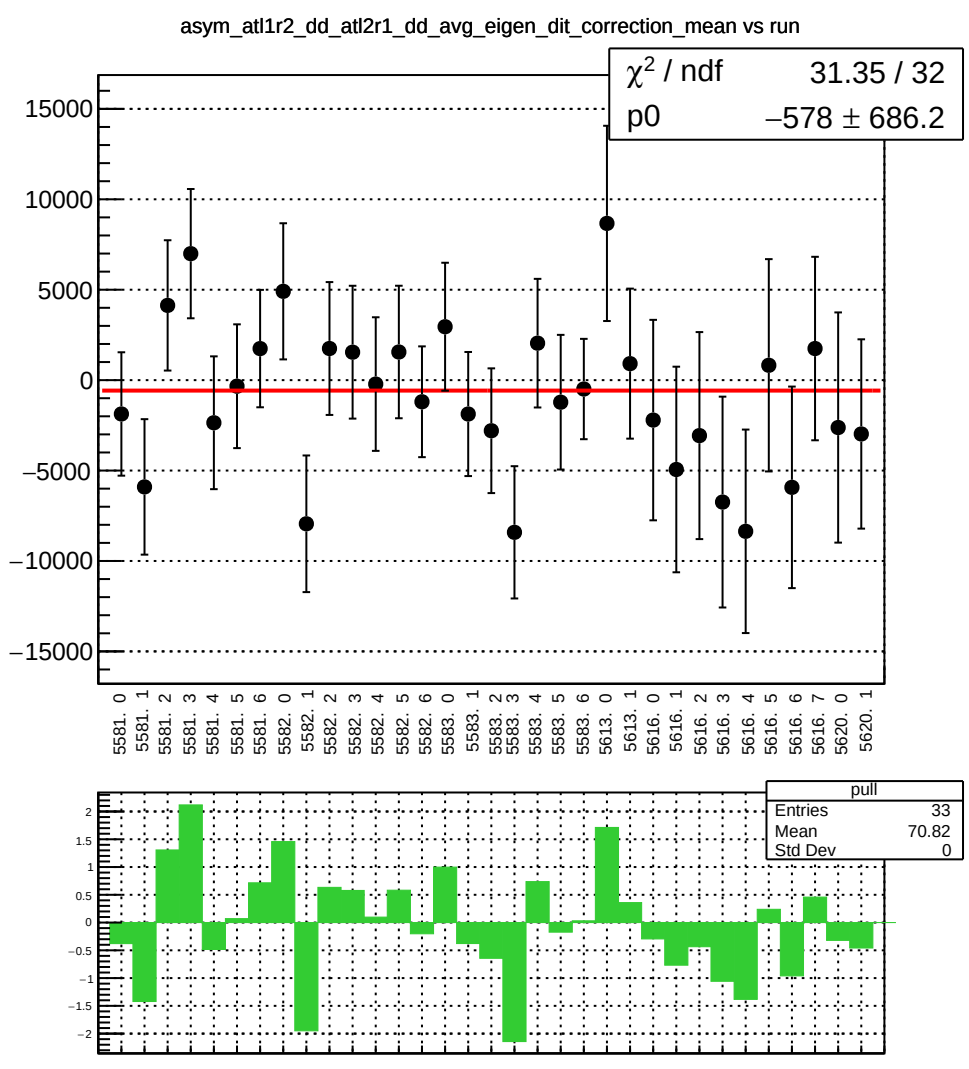

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 31.35 / 32
p0 −578 ± 686.2
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 70.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

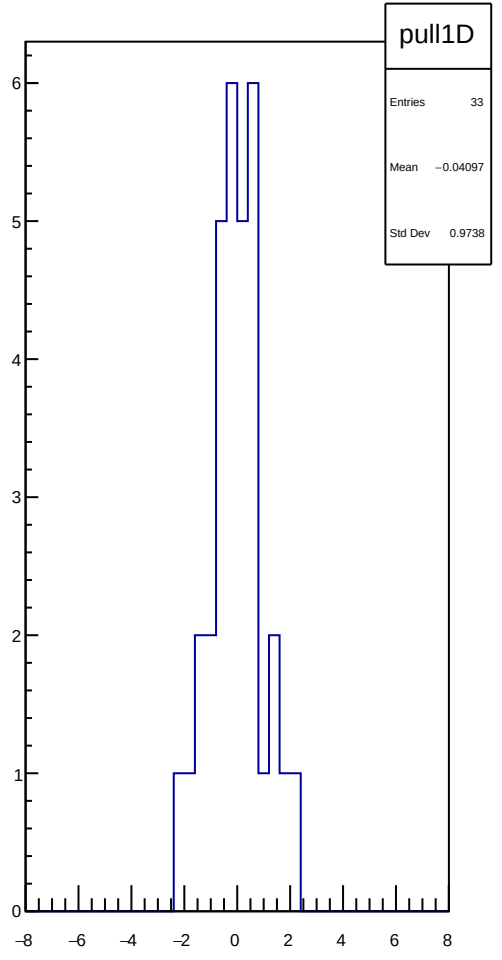

pull1D
Entries 33
Mean −0.04097
Std Dev 0.9738
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

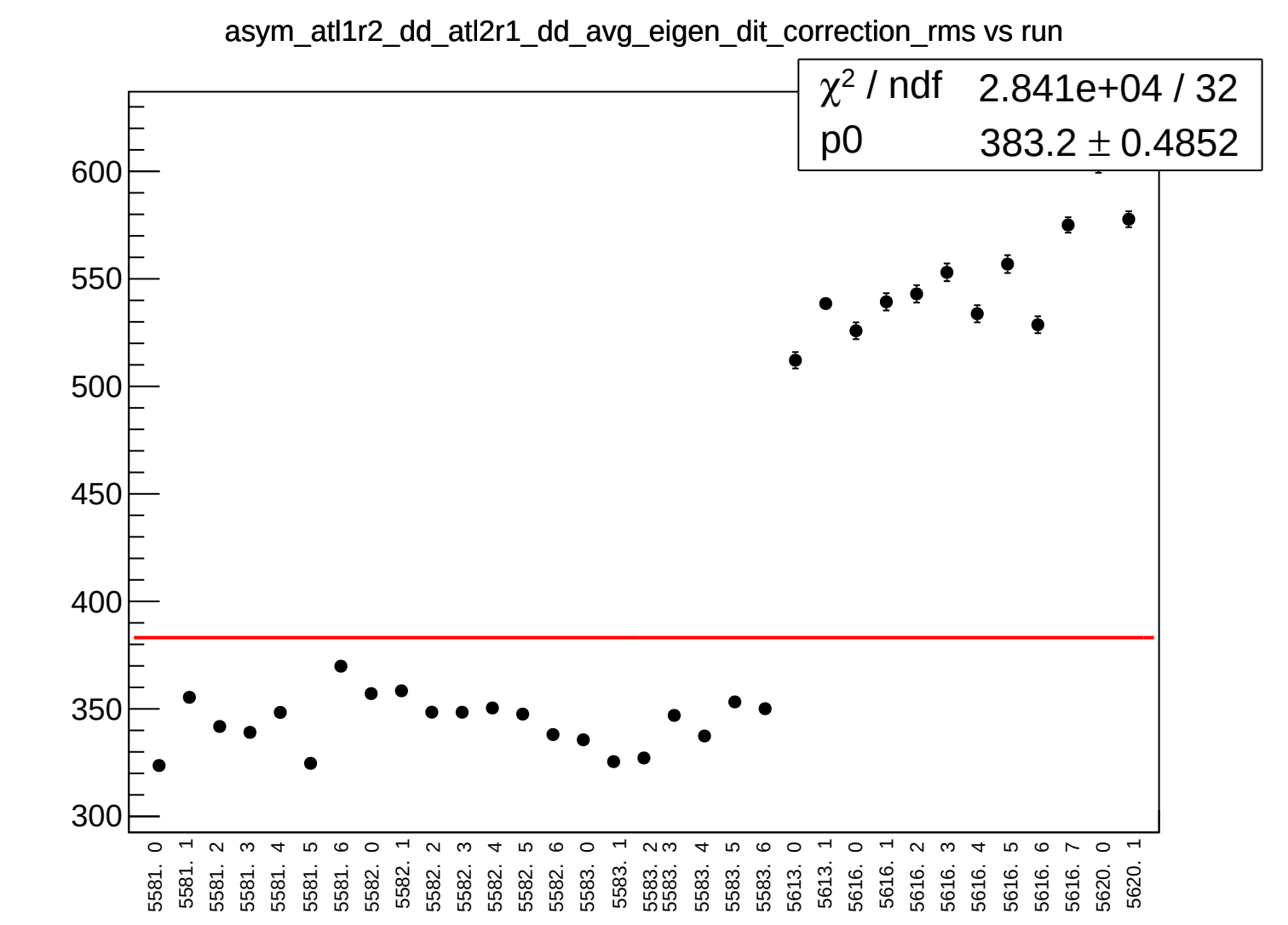

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 2.841e+04 / 32
p0 383.2 ± 0.4852
600
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

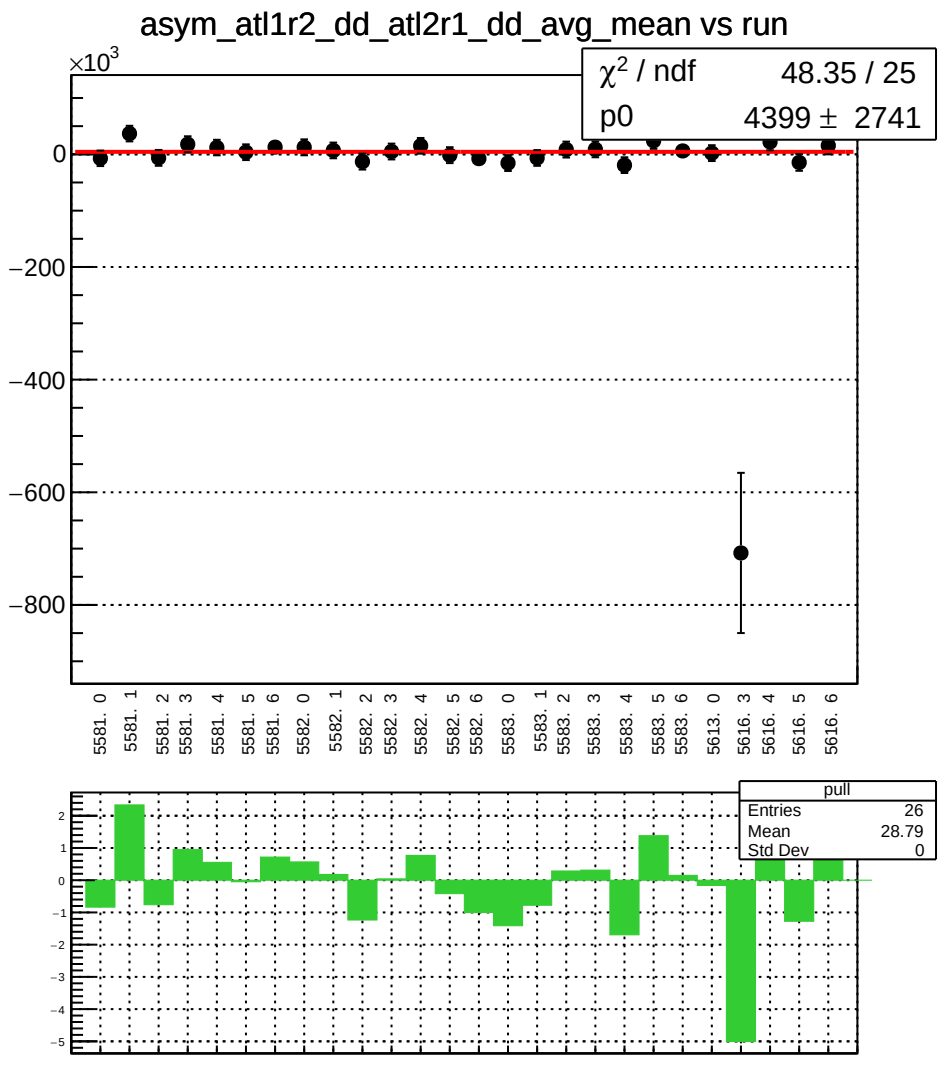

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 47.94 / 25
p0 4057 ± 2629
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 30.64
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 26
Mean −0.1783
Std Dev 1.346
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

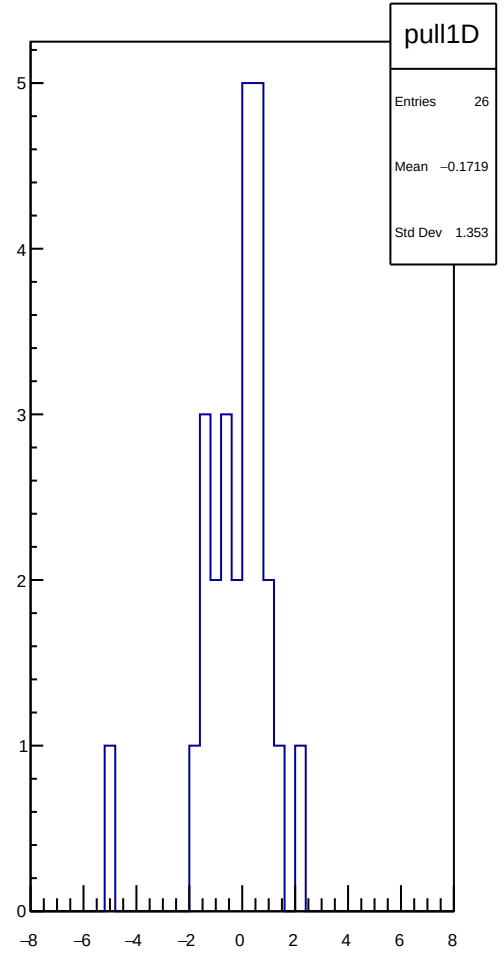

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.65e+05 / 32
p0 1297 ± 1.859
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

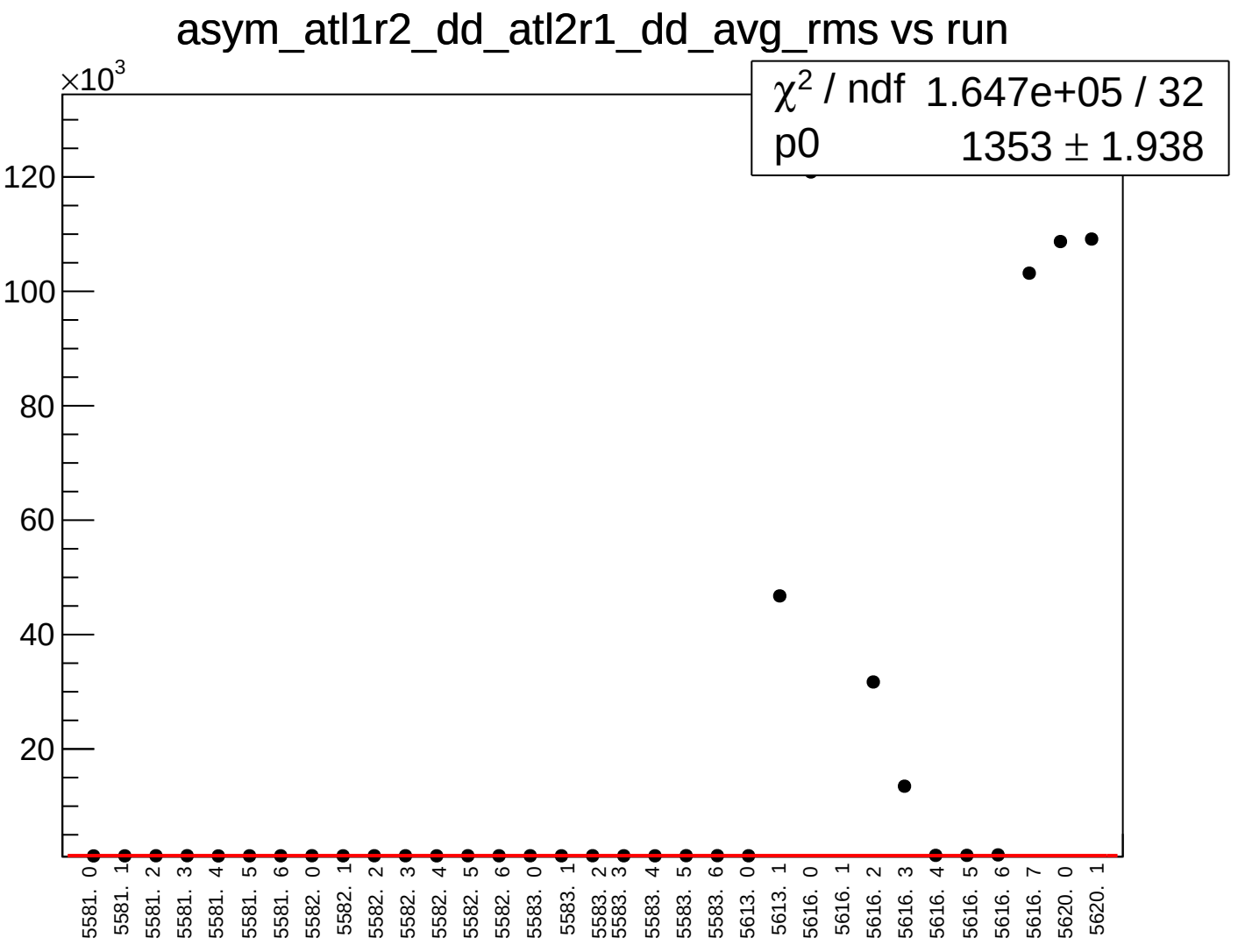

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 31.35 / 32
p0 −578 ± 686.2
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 70.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

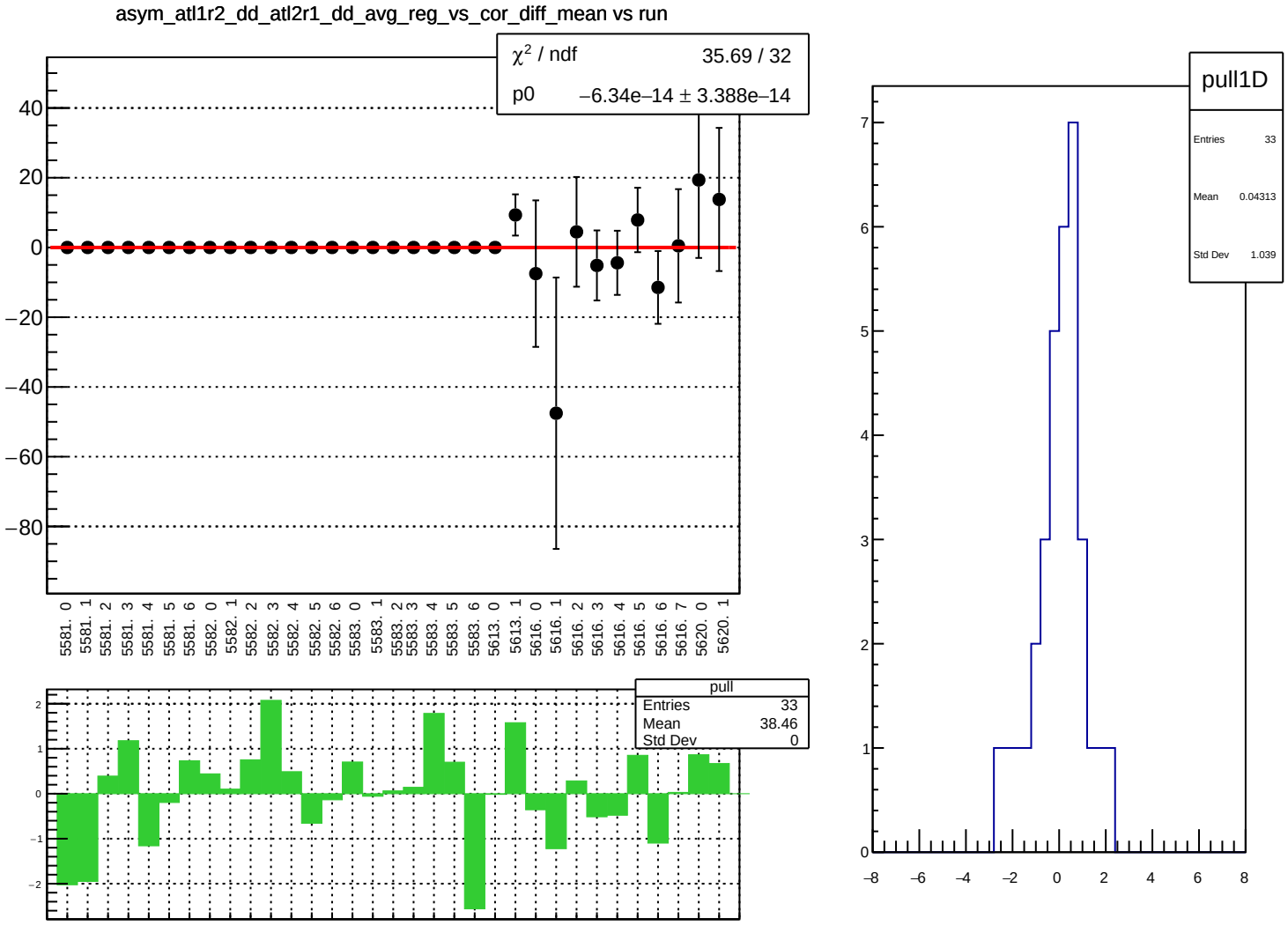

pull1D
Entries 33
Mean −0.04097
Std Dev 0.9738
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

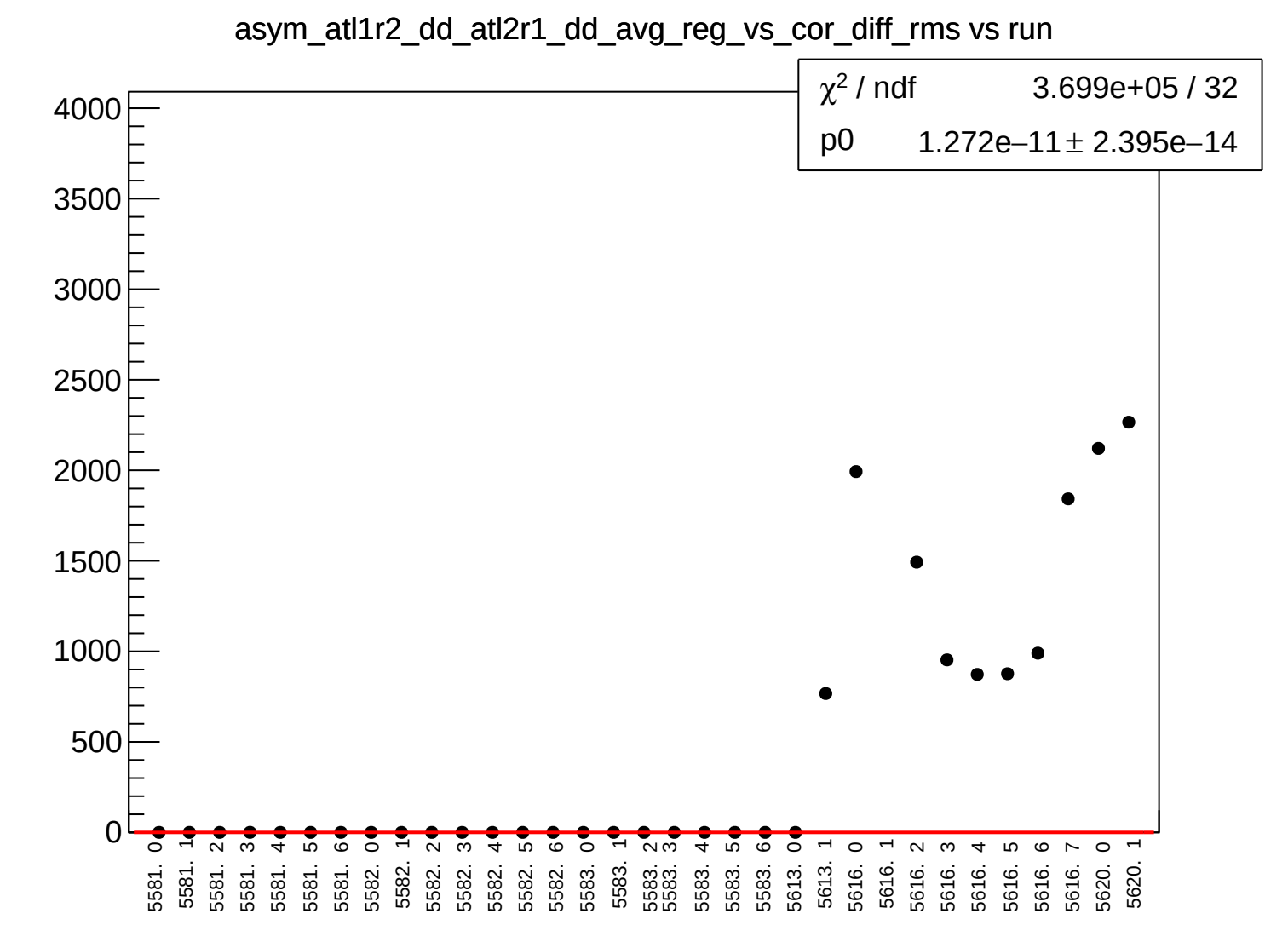

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.841e+04 / 32
p0 383.2 ± 0.4852
600
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

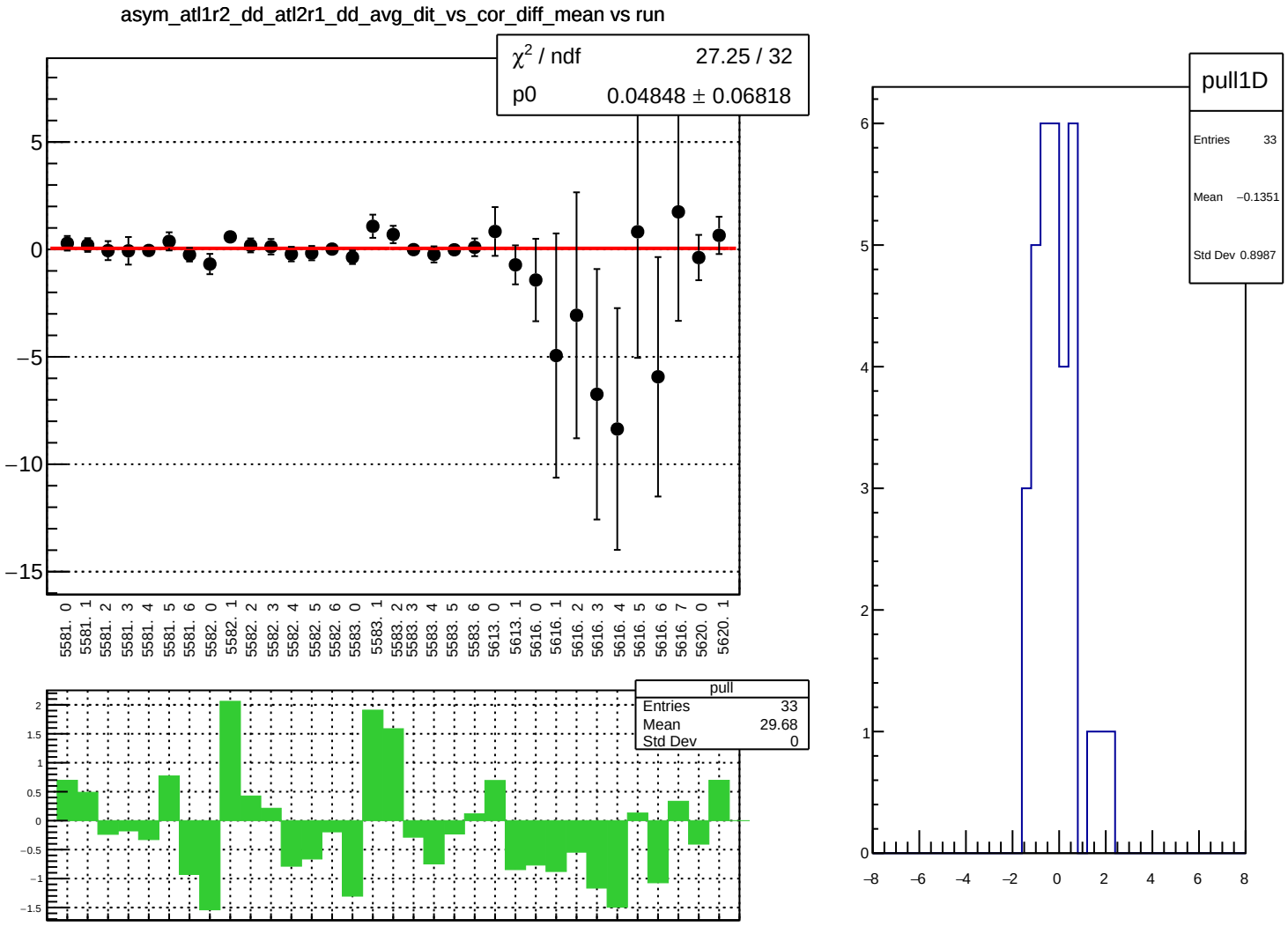

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 48.35 / 25
p0 4399 ± 2741
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 28.79
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

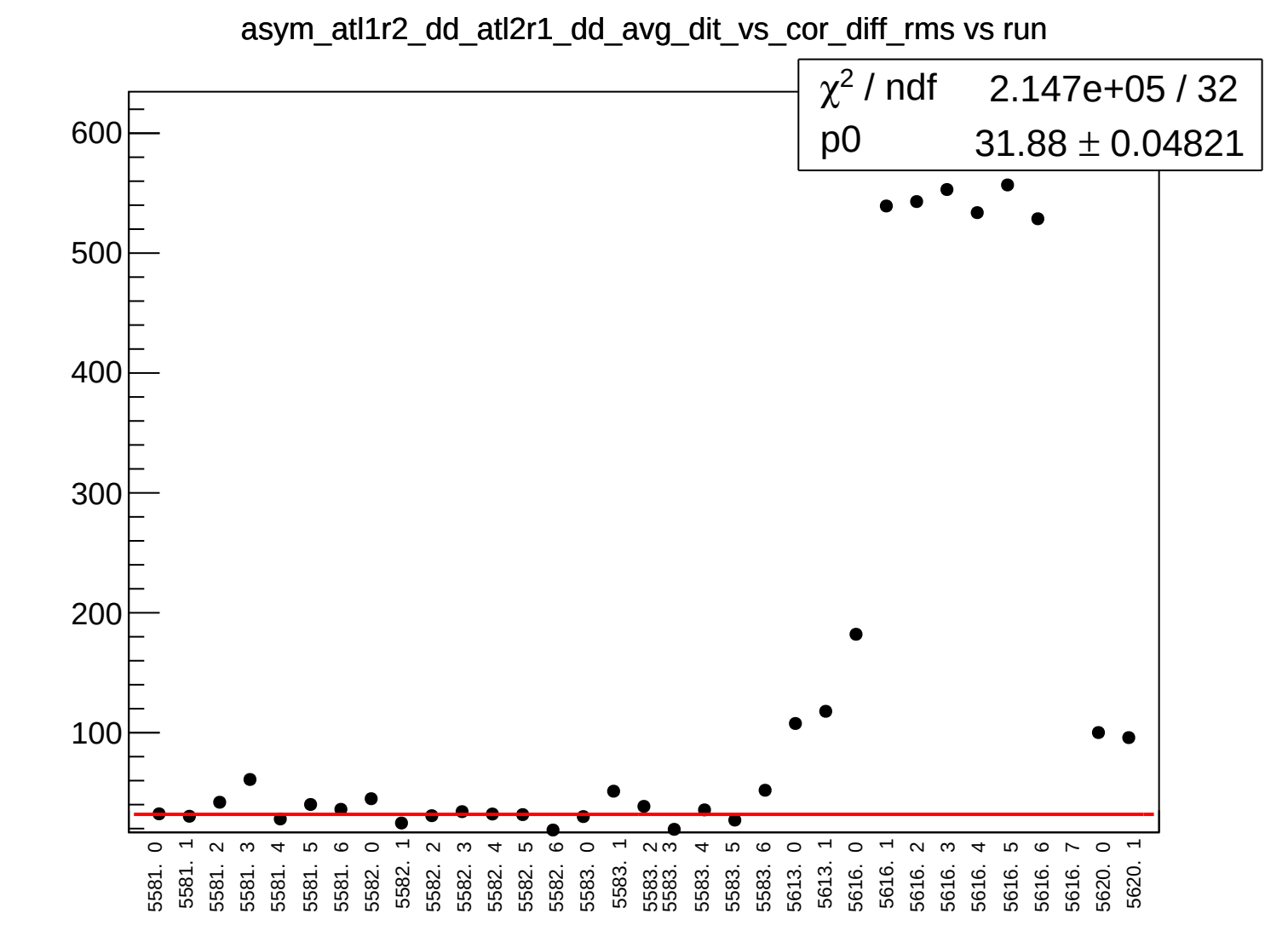

pull1D
Entries 26
Mean −0.1719
Std Dev 1.353
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

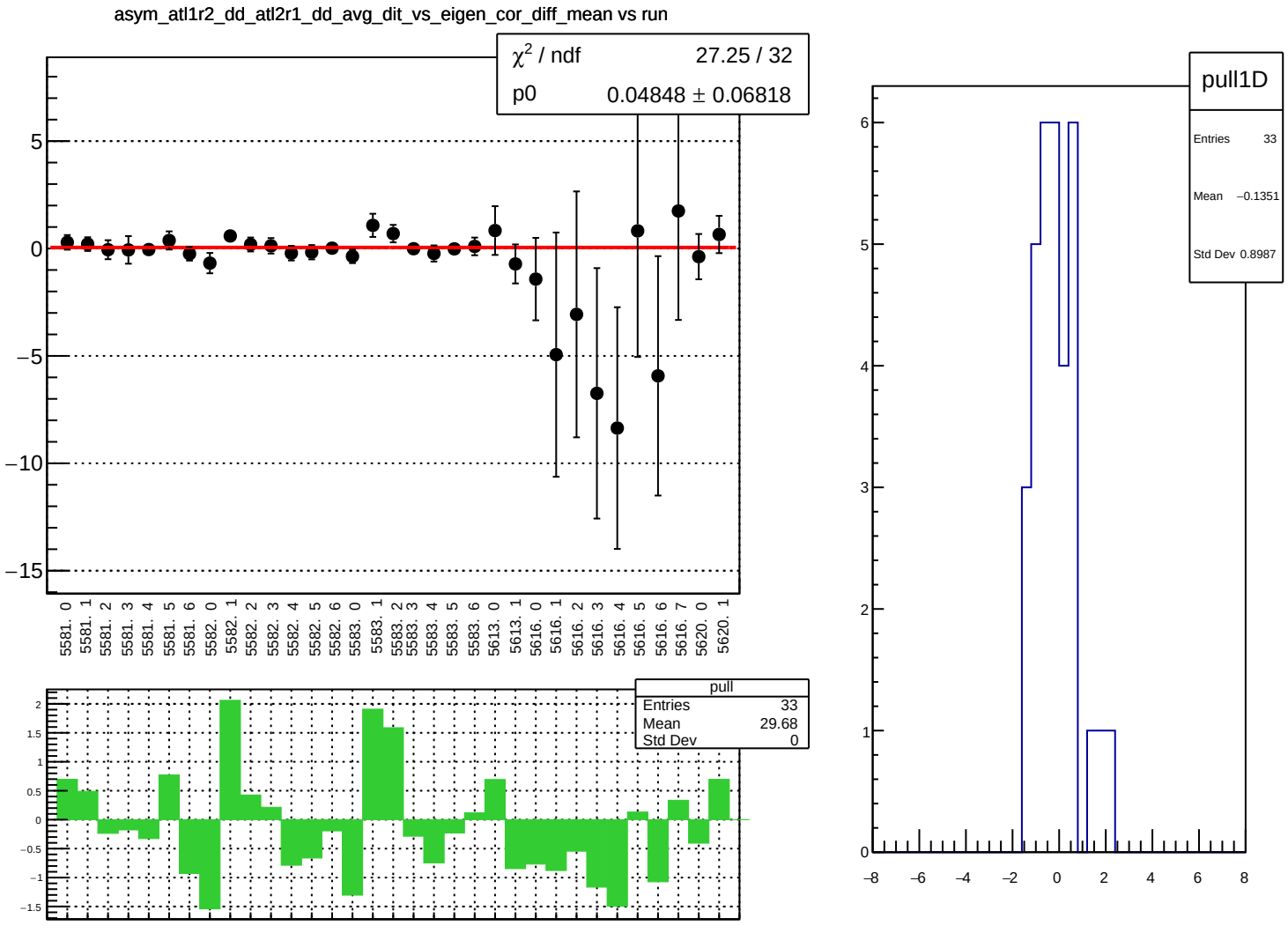

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.647e+05 / 32
p0 1353 ± 1.938
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

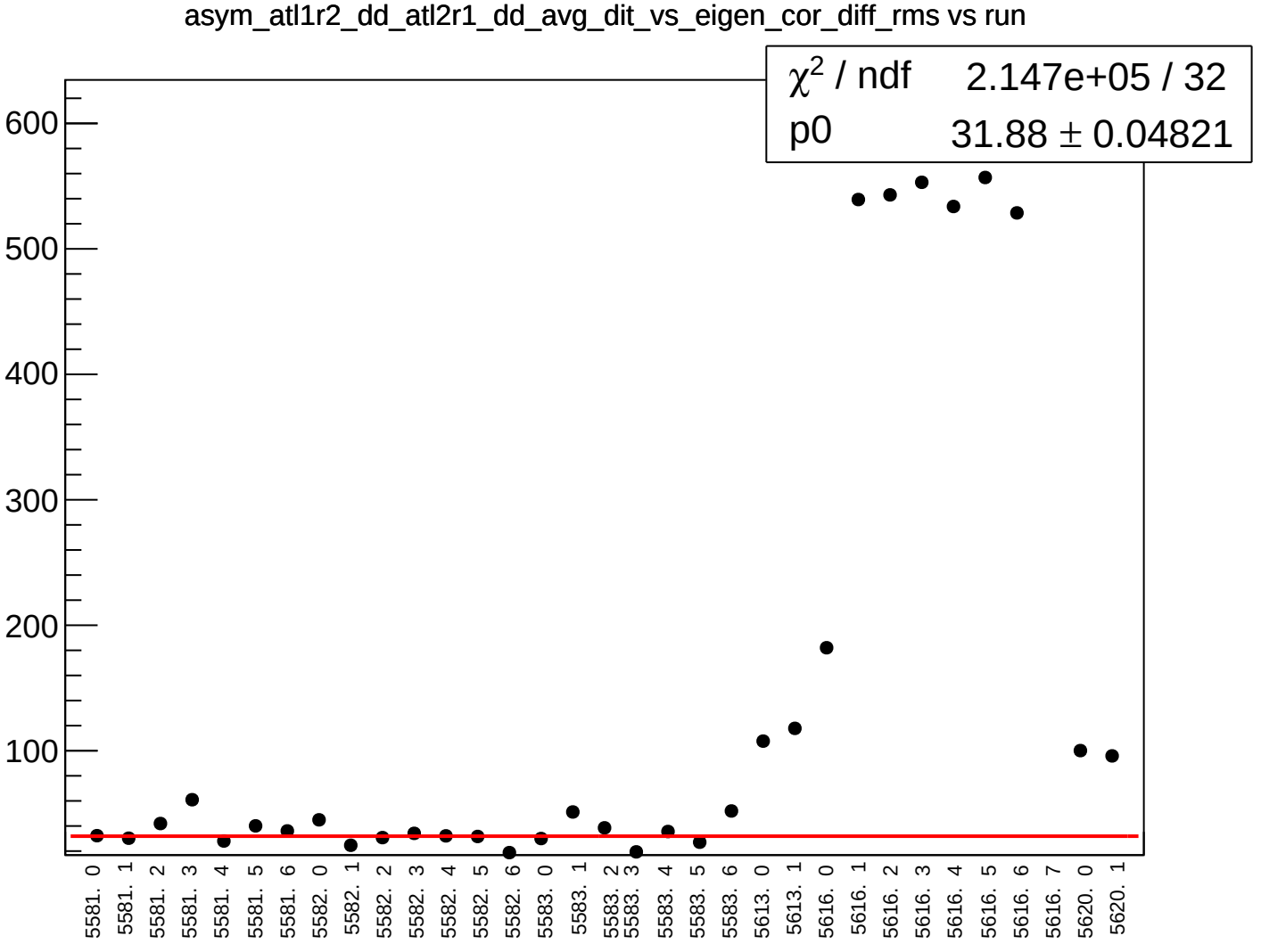

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 35.69 / 32
p0 −6.34e−14 ± 3.388e−14
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.46
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.04313
Std Dev 1.039
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

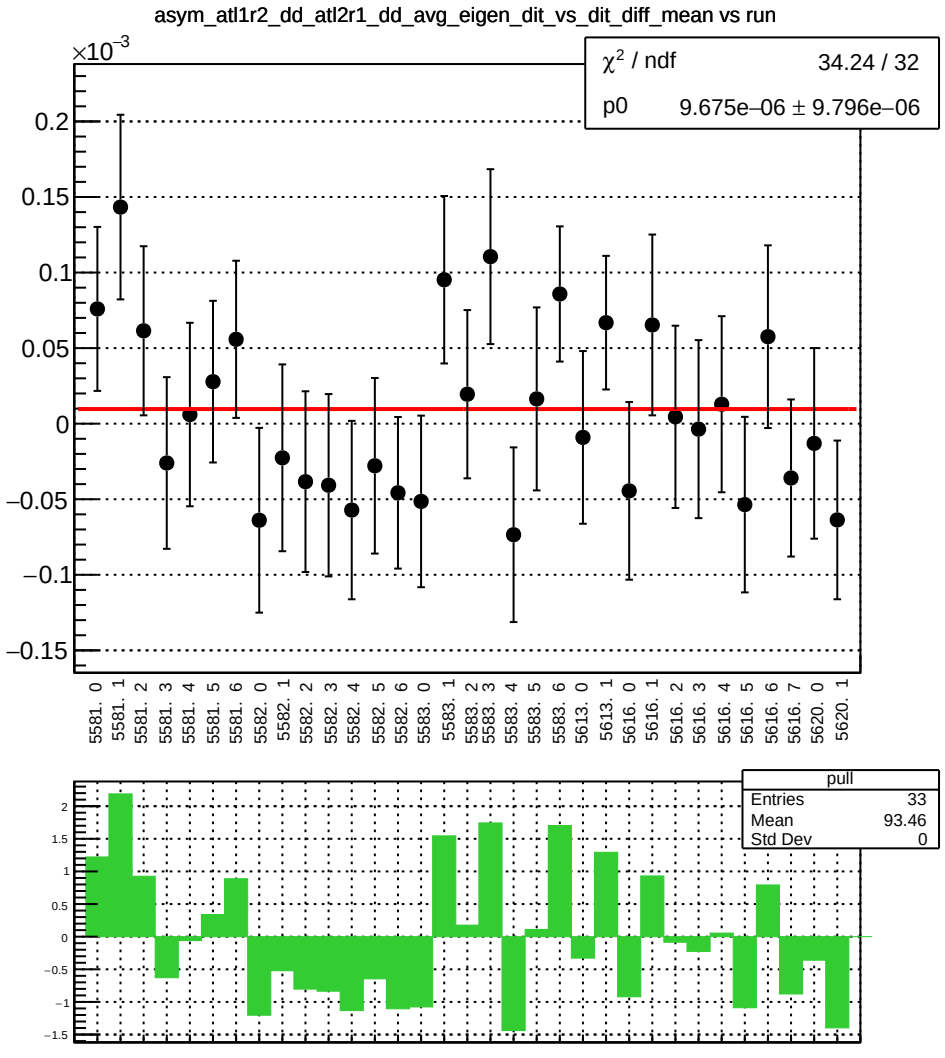

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.699e+05 / 32
p0 1.272e−11 ± 2.395e−14
4000
3500
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

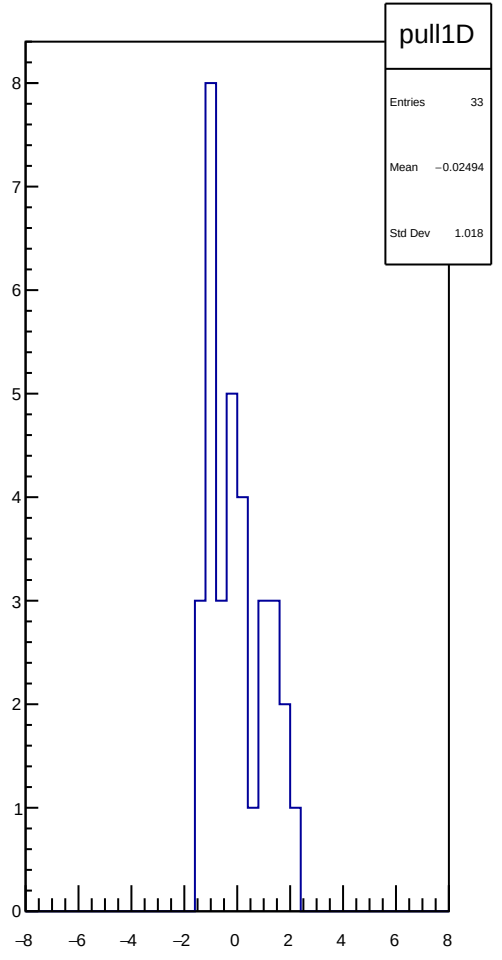

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 27.25 / 32
p0 0.04848 ± 0.06818
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1351
Std Dev 0.8987
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

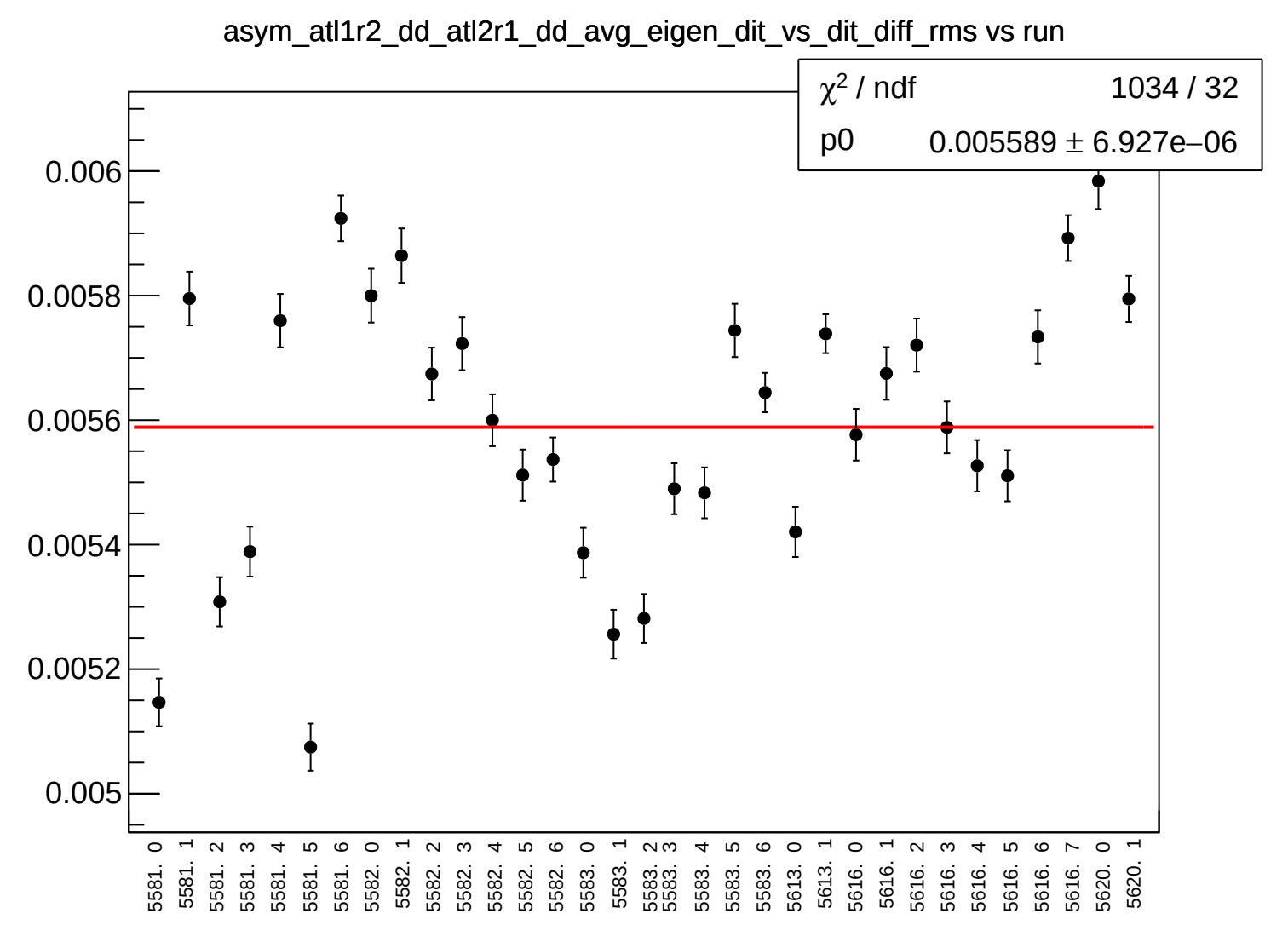

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.147e+05 / 32
p0 31.88 ± 0.04821
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

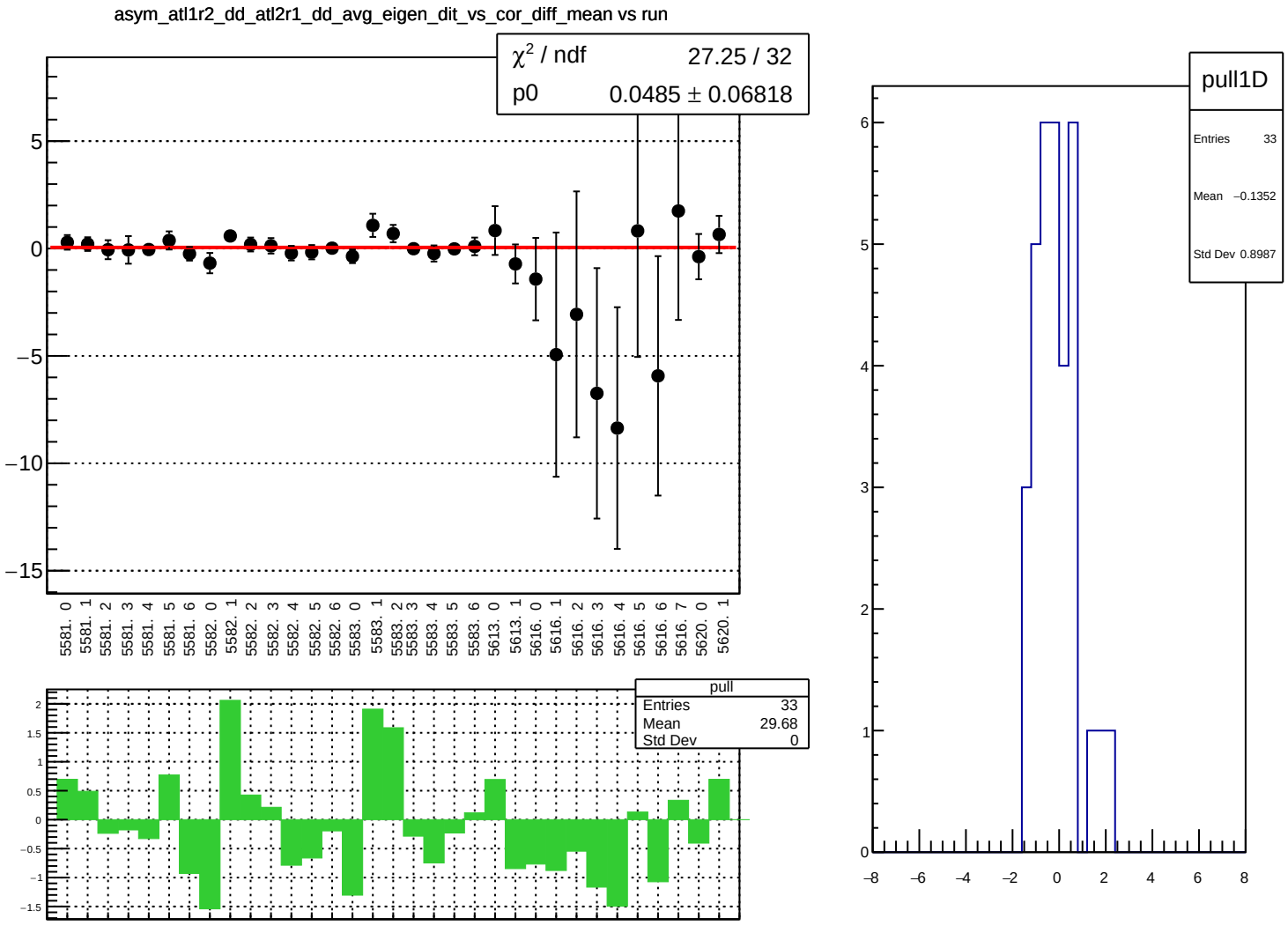

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.25 / 32
p0 0.04848 ± 0.06818
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1351
Std Dev 0.8987
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

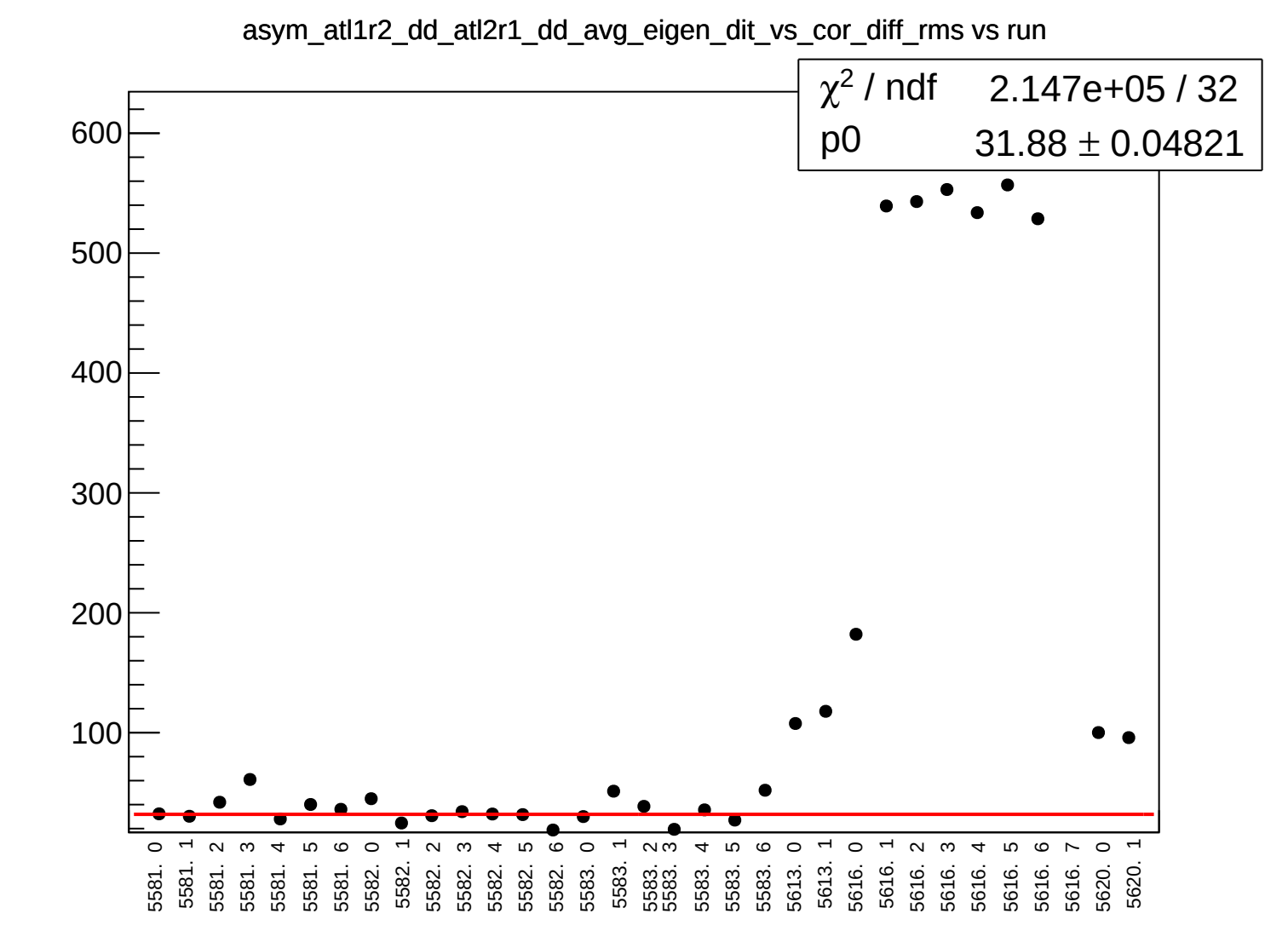

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 2.147e+05 / 32
p0 31.88 ± 0.04821
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

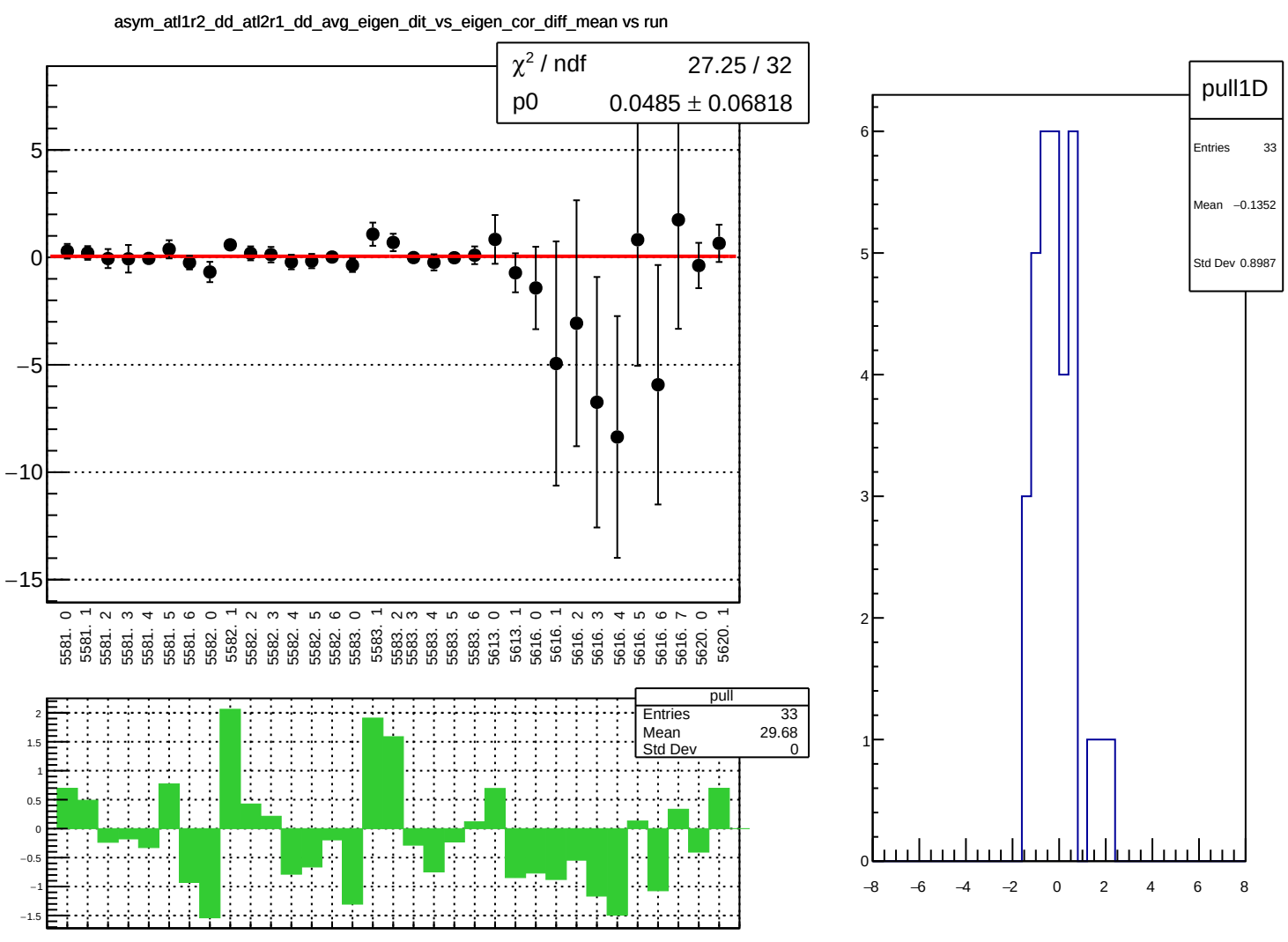

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 34.24 / 32
p0 9.675e−06 ± 9.796e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 93.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

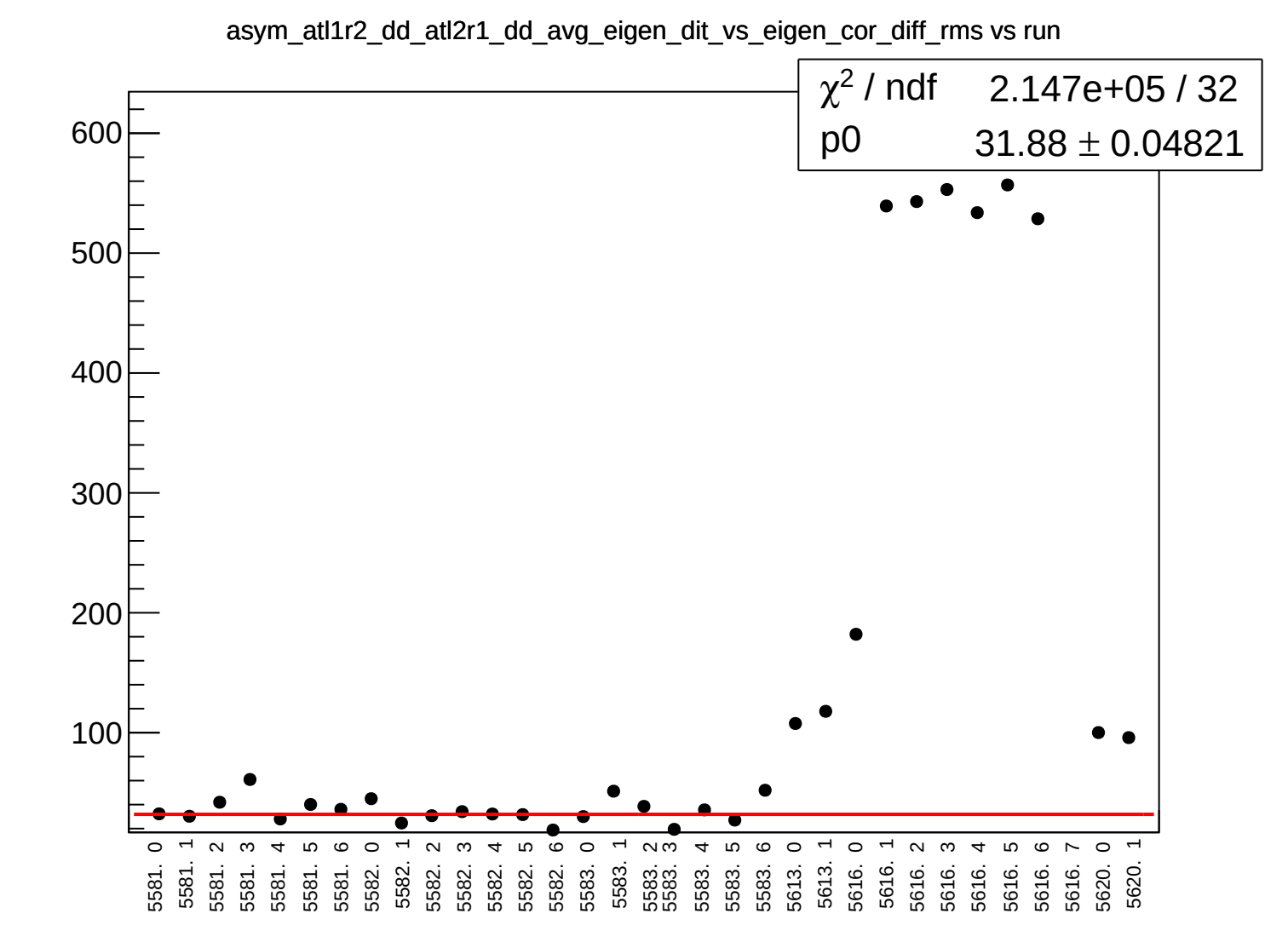

pull1D
Entries 33
Mean −0.02494
Std Dev 1.018
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

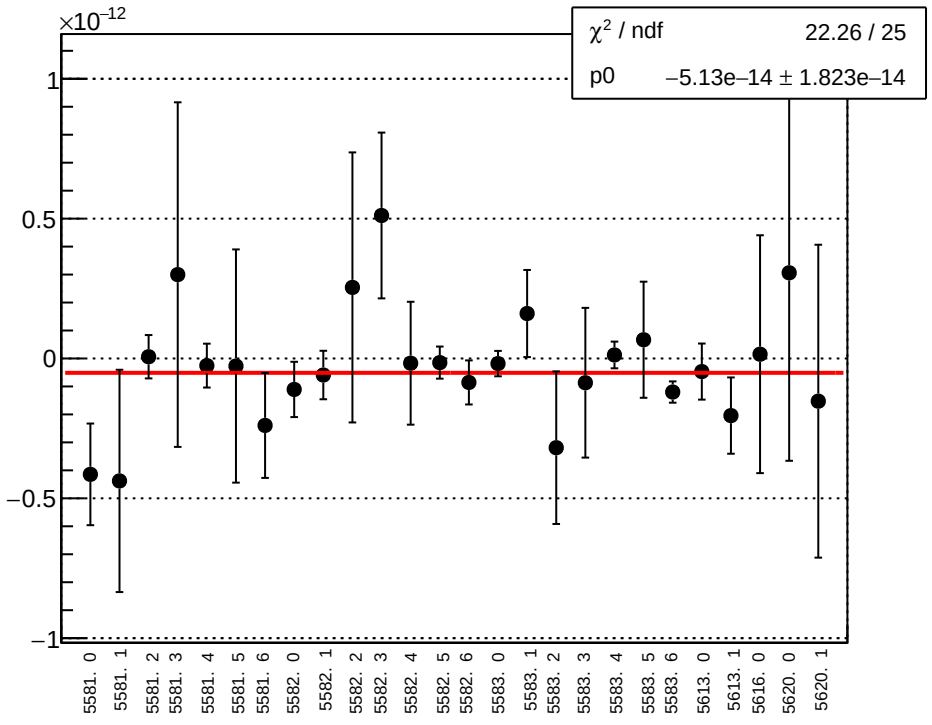

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1034 / 32
p0 0.005589 ± 6.927e−06
0.006
0.0058
0.0056
0.0054
0.0052
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

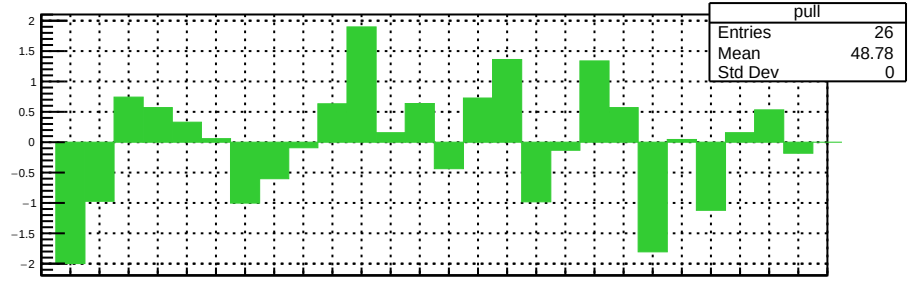

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.25 / 32
p0 0.0485 ± 0.06818
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1352
Std Dev 0.8987
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

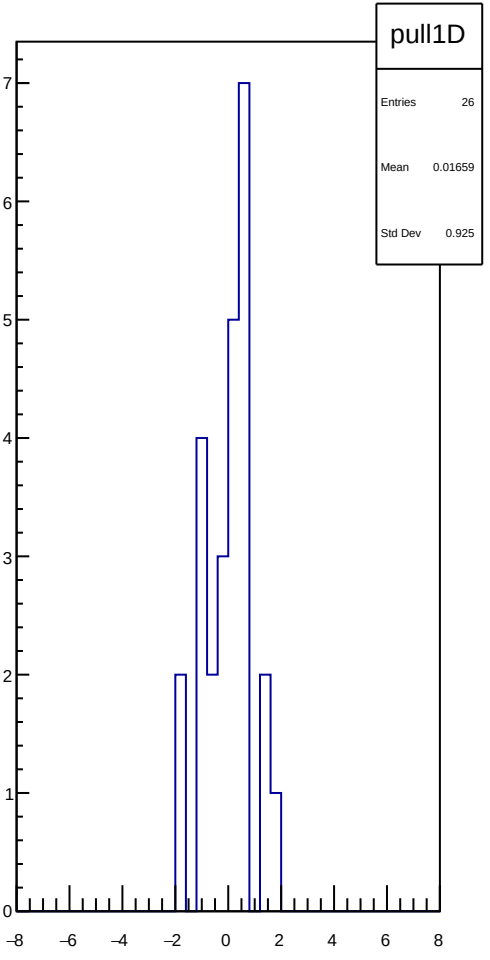

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ2 / ndf 2.147e+05 / 32
p0 31.88 ± 0.04821
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

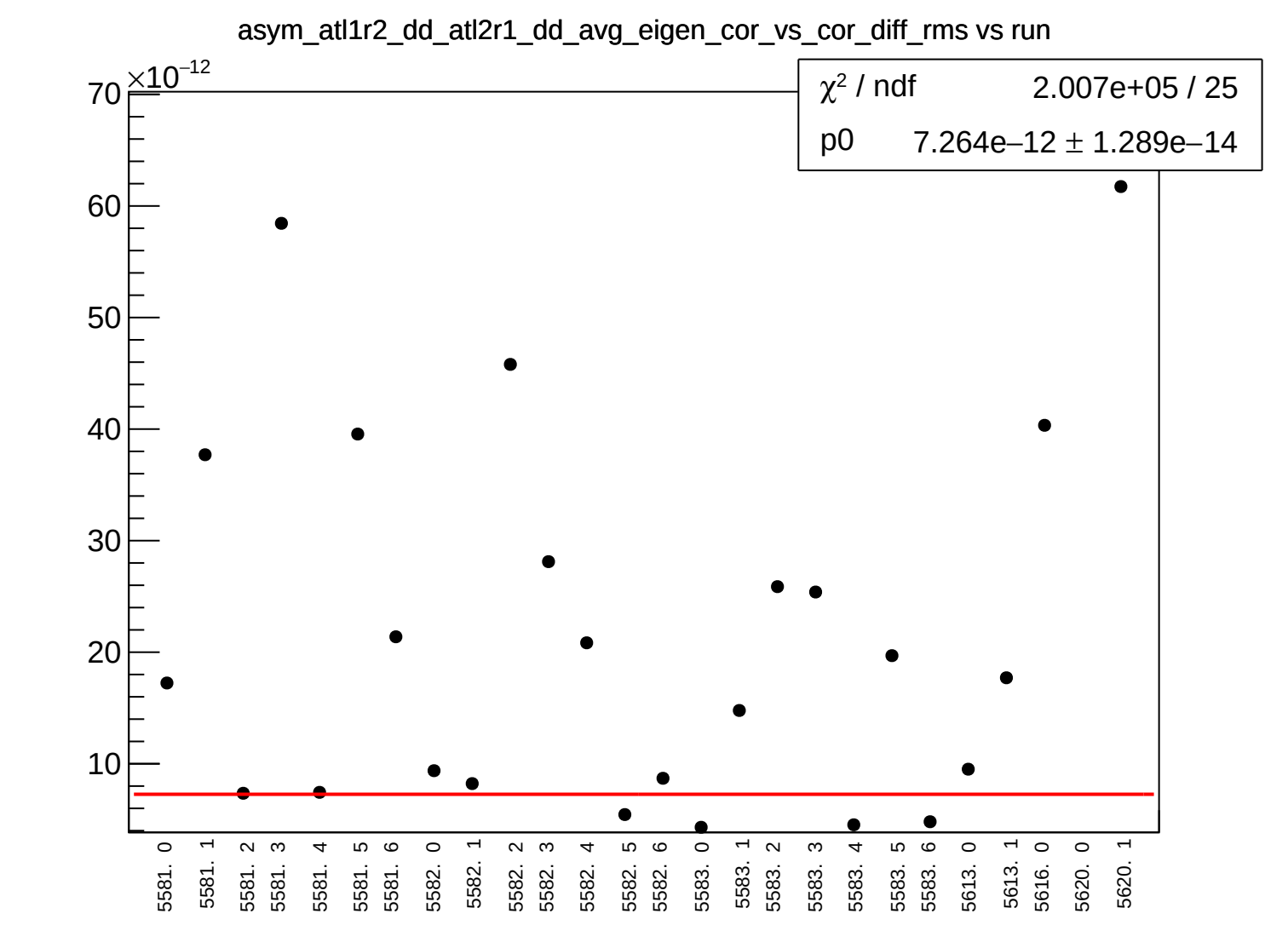

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.25 / 32
p0 0.0485 ± 0.06818
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1352
Std Dev 0.8987
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

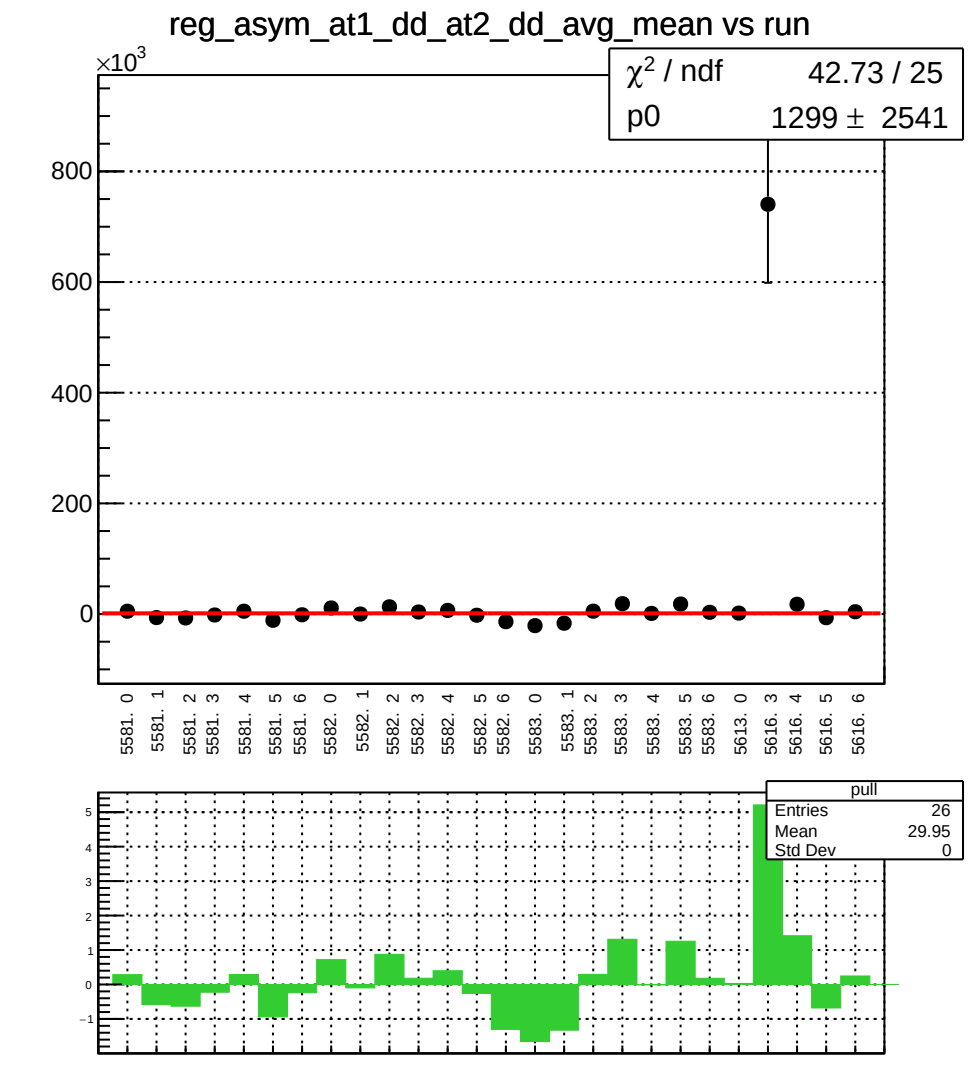

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.147e+05 / 32
p0 31.88 ± 0.04821
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

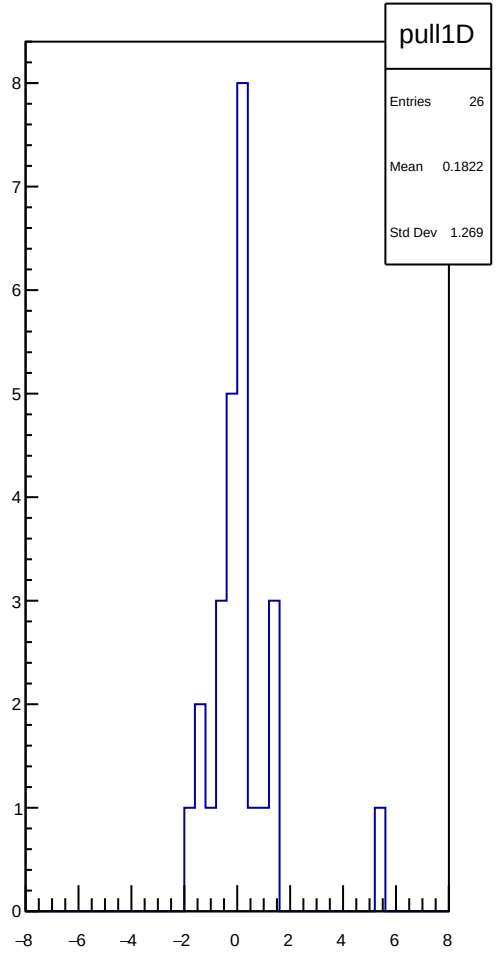

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 22.26 / 25
p0 −5.13e−14 ± 1.823e−14
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

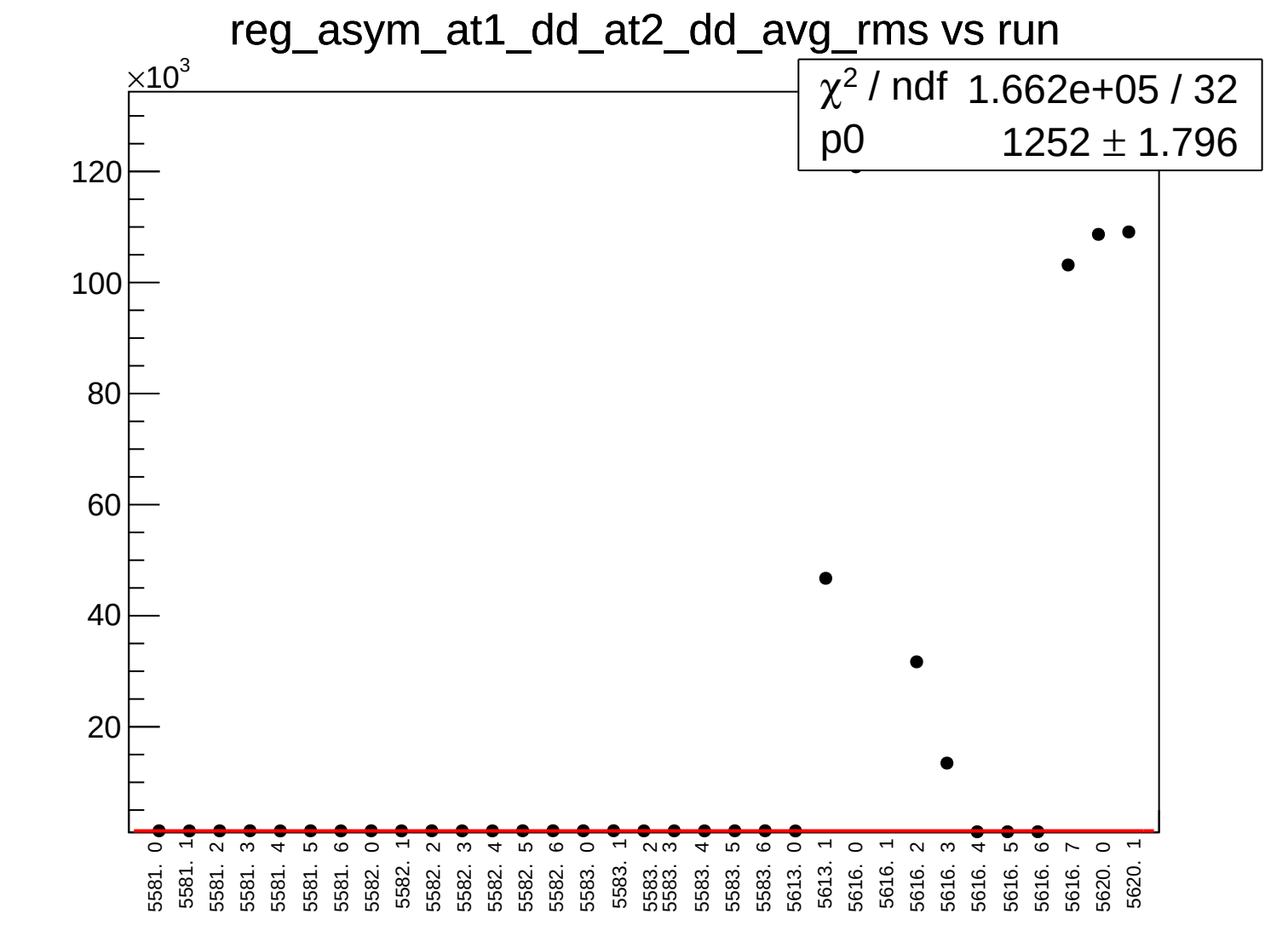

pull
Entries 26
Mean 48.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

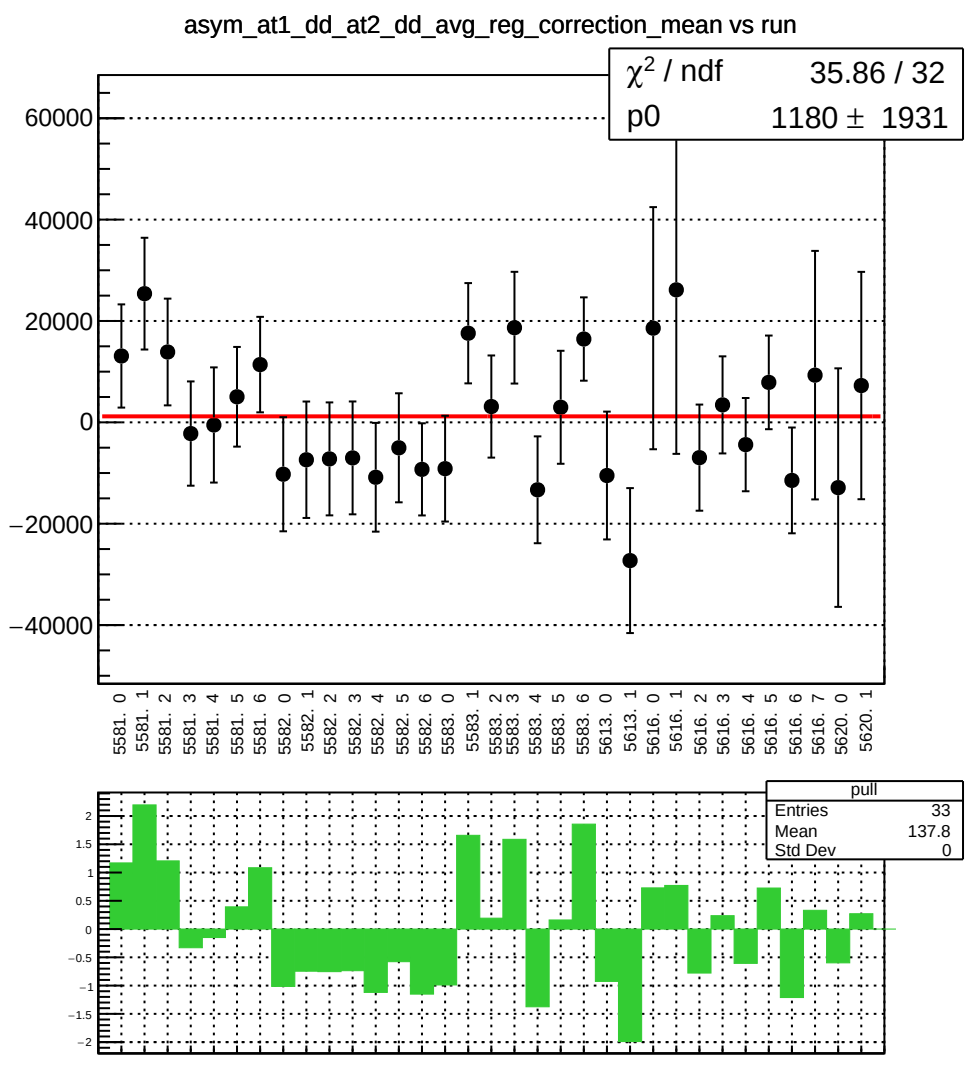

pull1D
Entries 26
Mean 0.01659
Std Dev 0.925
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

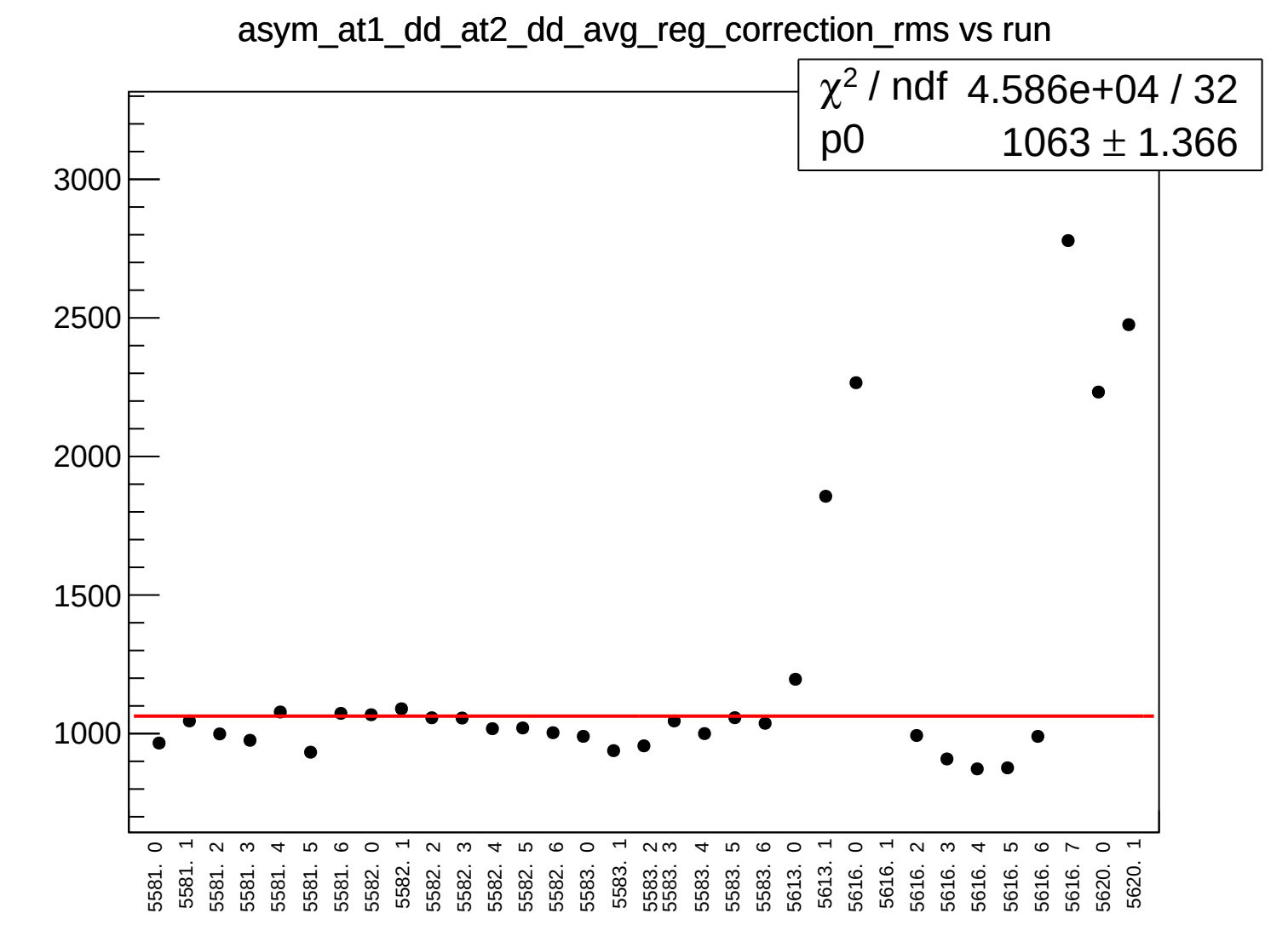

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 2.007e+05 / 25
p0 7.264e−12 ± 1.289e−14
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

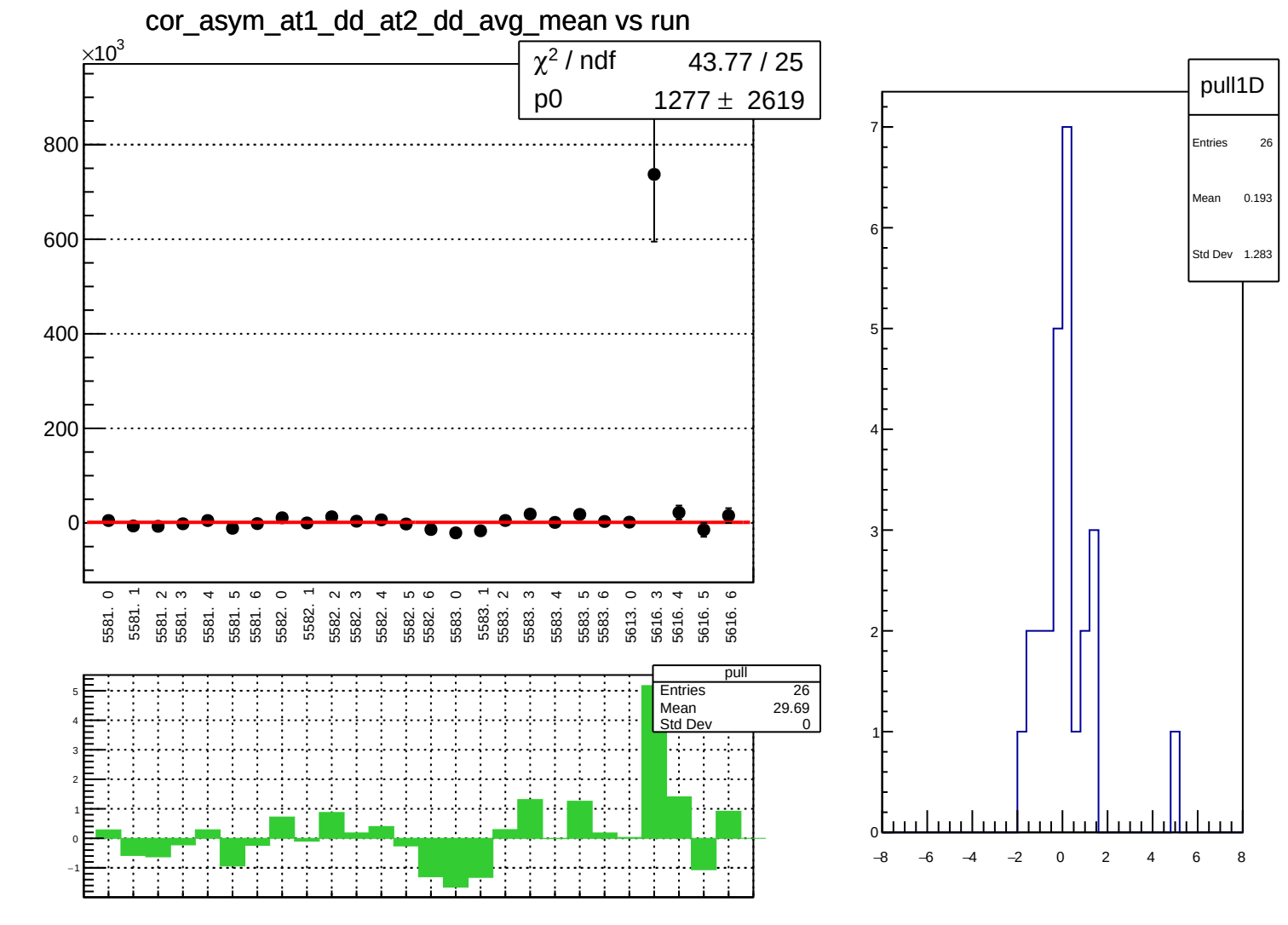

reg_asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ² / ndf 42.73 / 25
p0 1299 ± 2541
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 29.95
Std Dev 0
5
4
3
2
1
0
−1

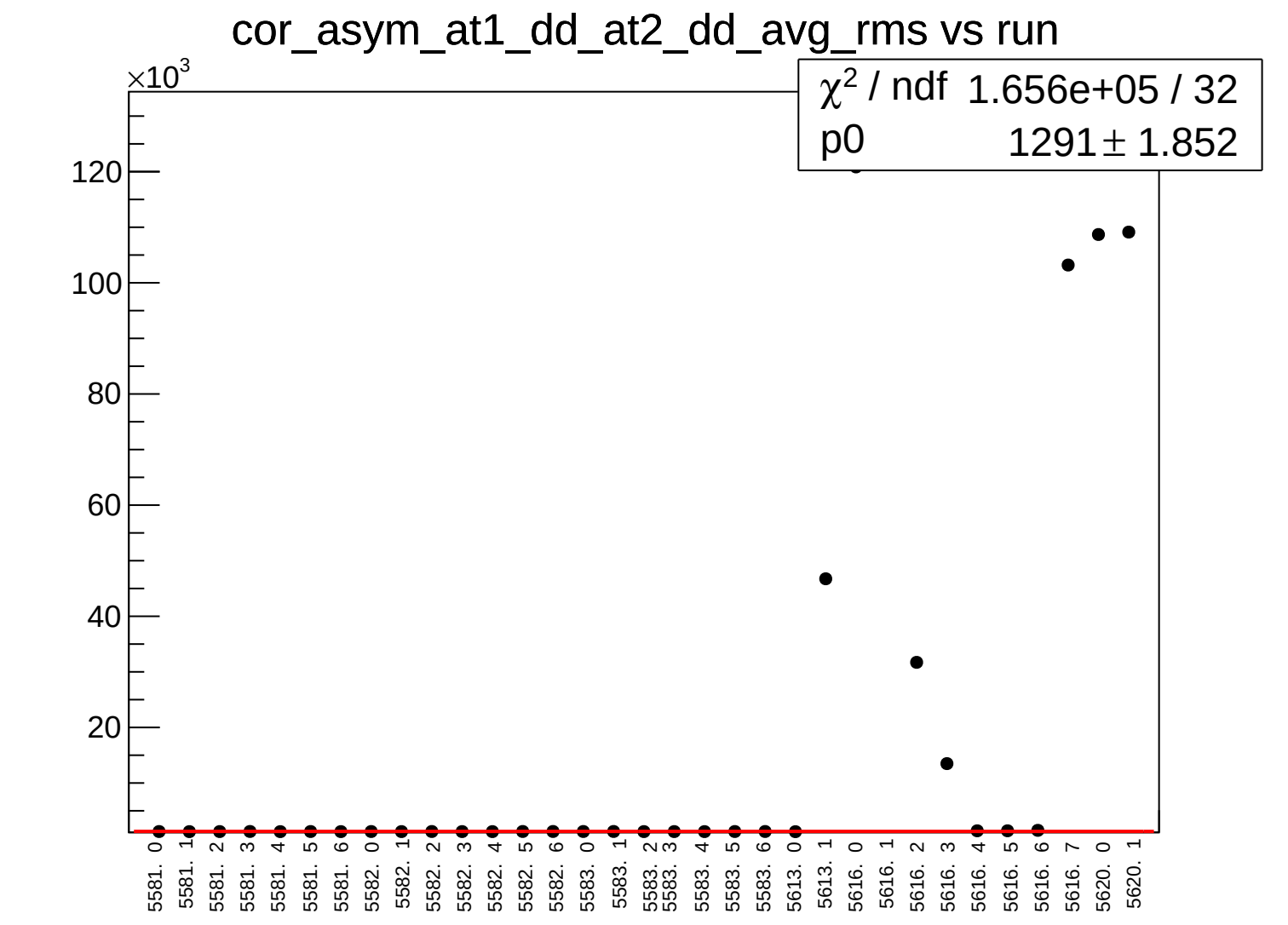

pull1D
Entries 26
Mean 0.1822
Std Dev 1.269
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

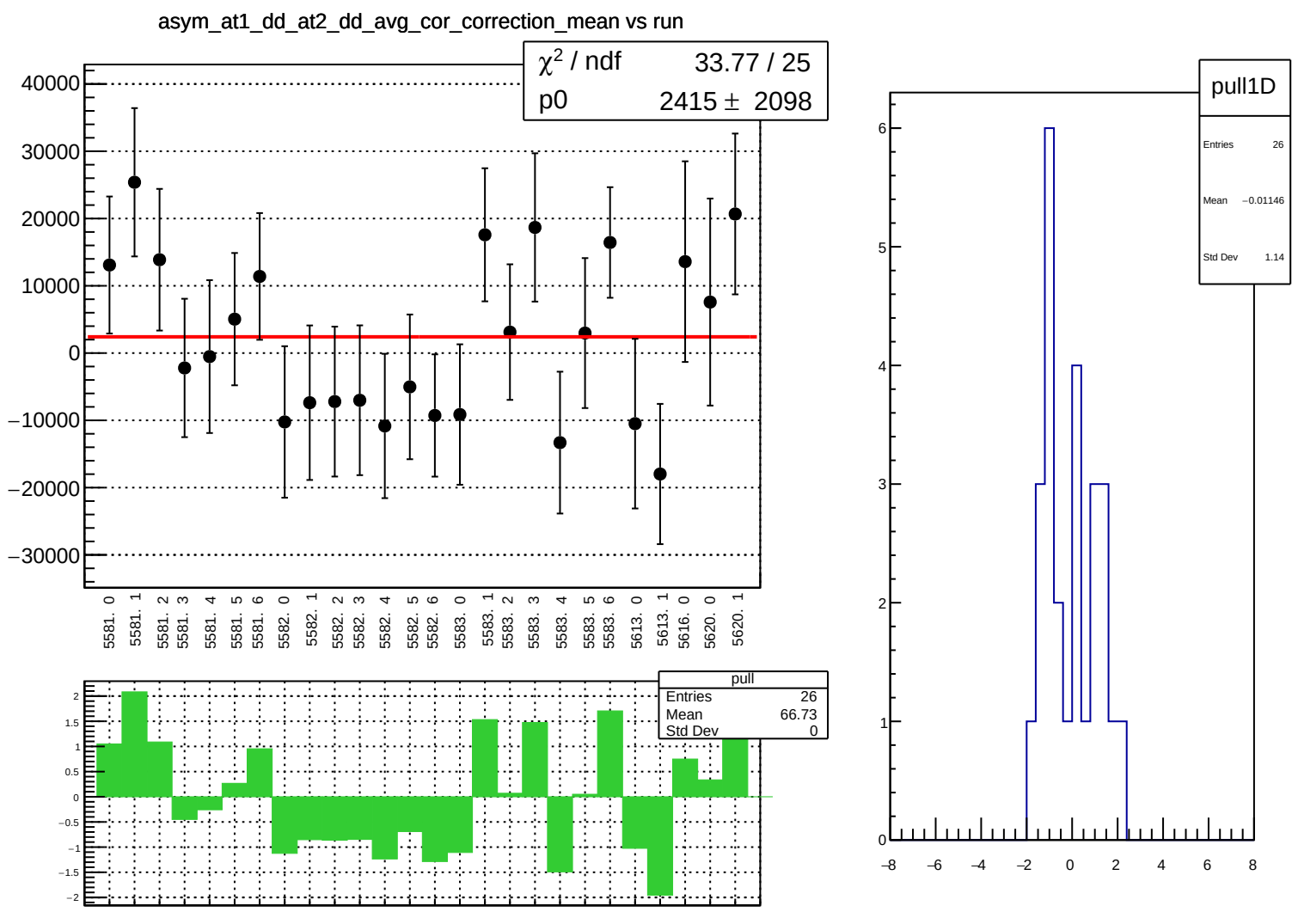

reg_asym_at1_dd_at2_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.662e+05 / 32
p0 1252 ± 1.796
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

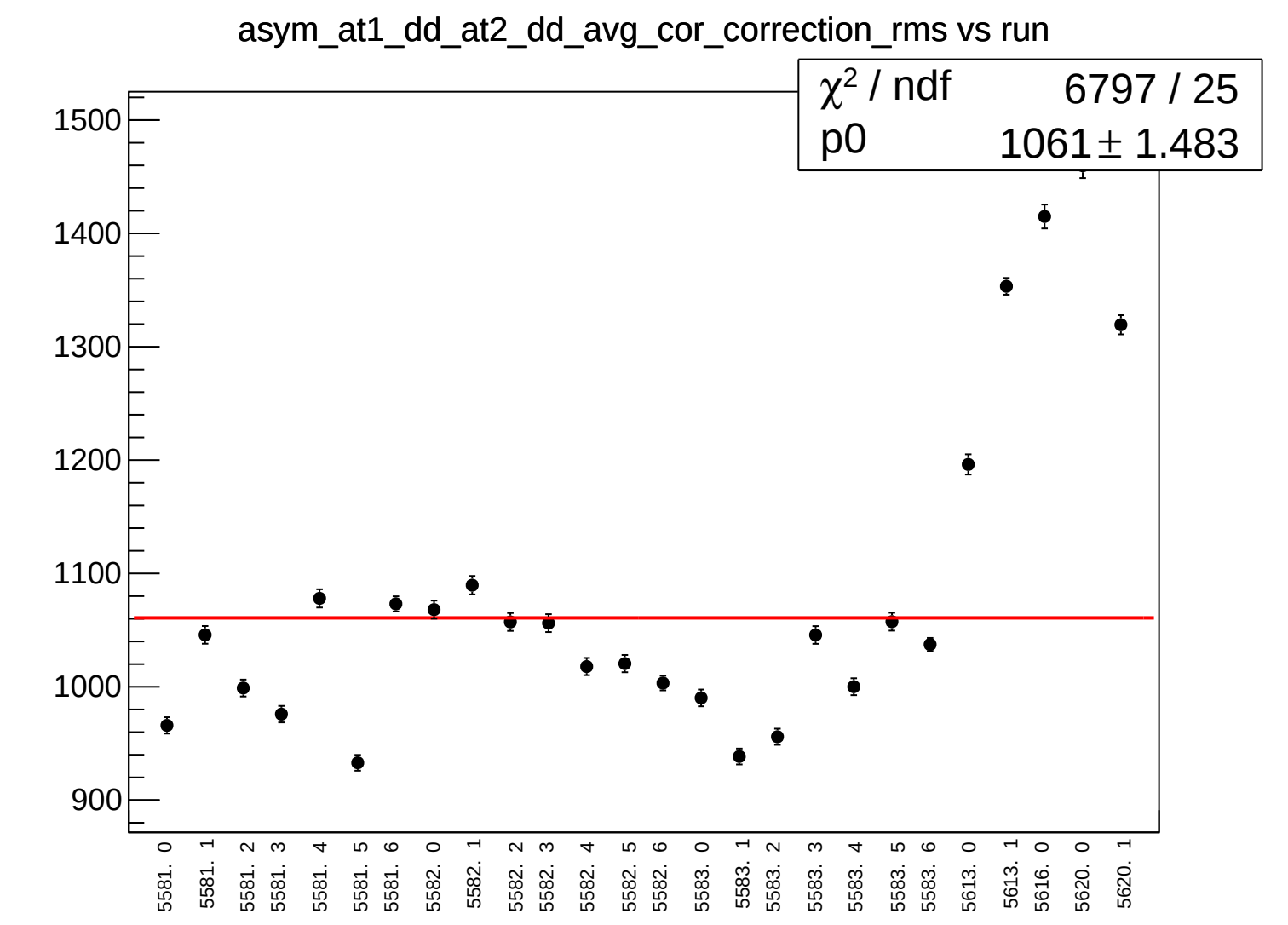

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 35.86 / 32
p0 1180 ± 1931
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 137.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.0145
Std Dev 1.042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

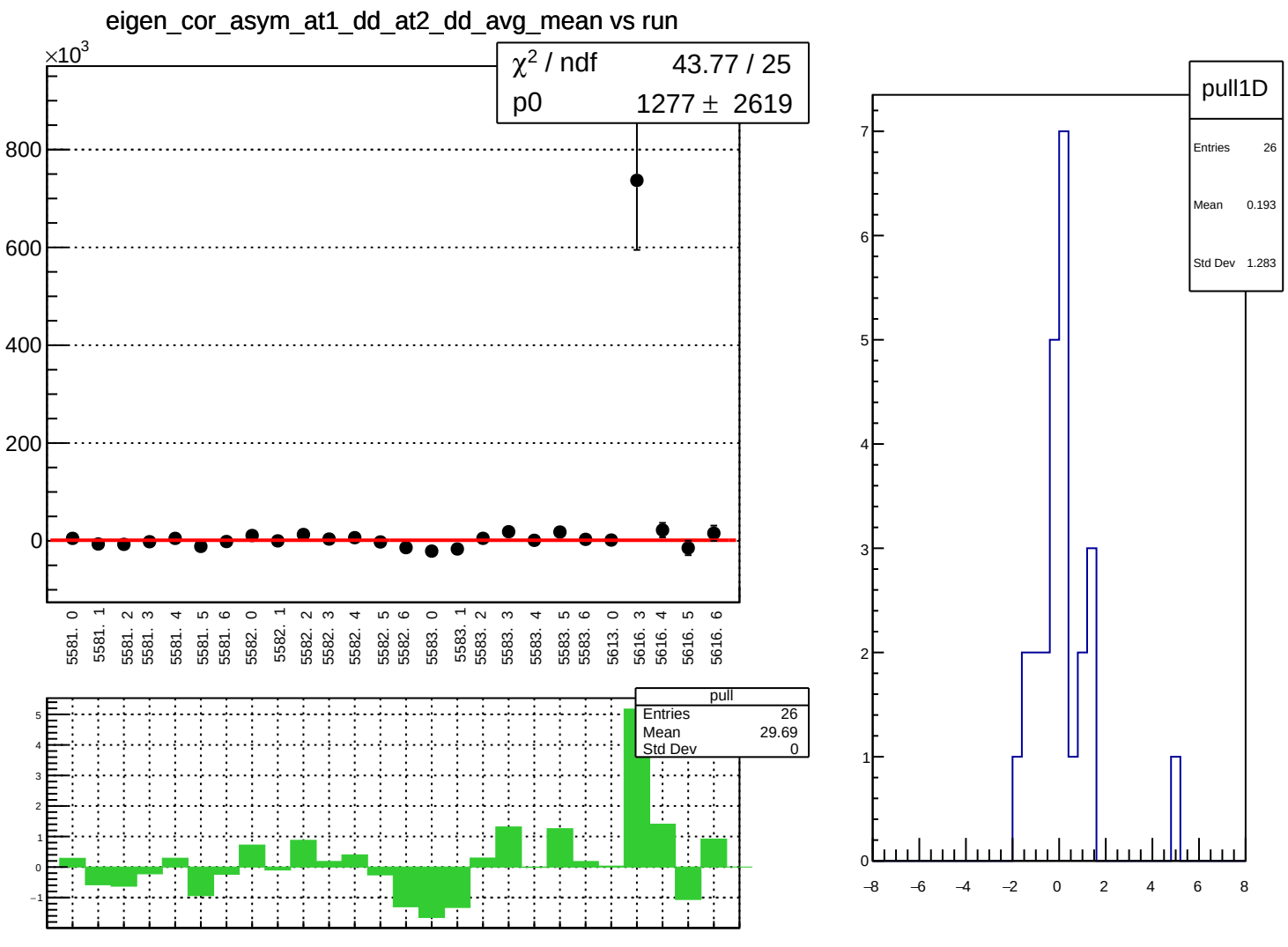

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 4.586e+04 / 32
p0 1063 ± 1.366
3000
2500
2000
1500
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

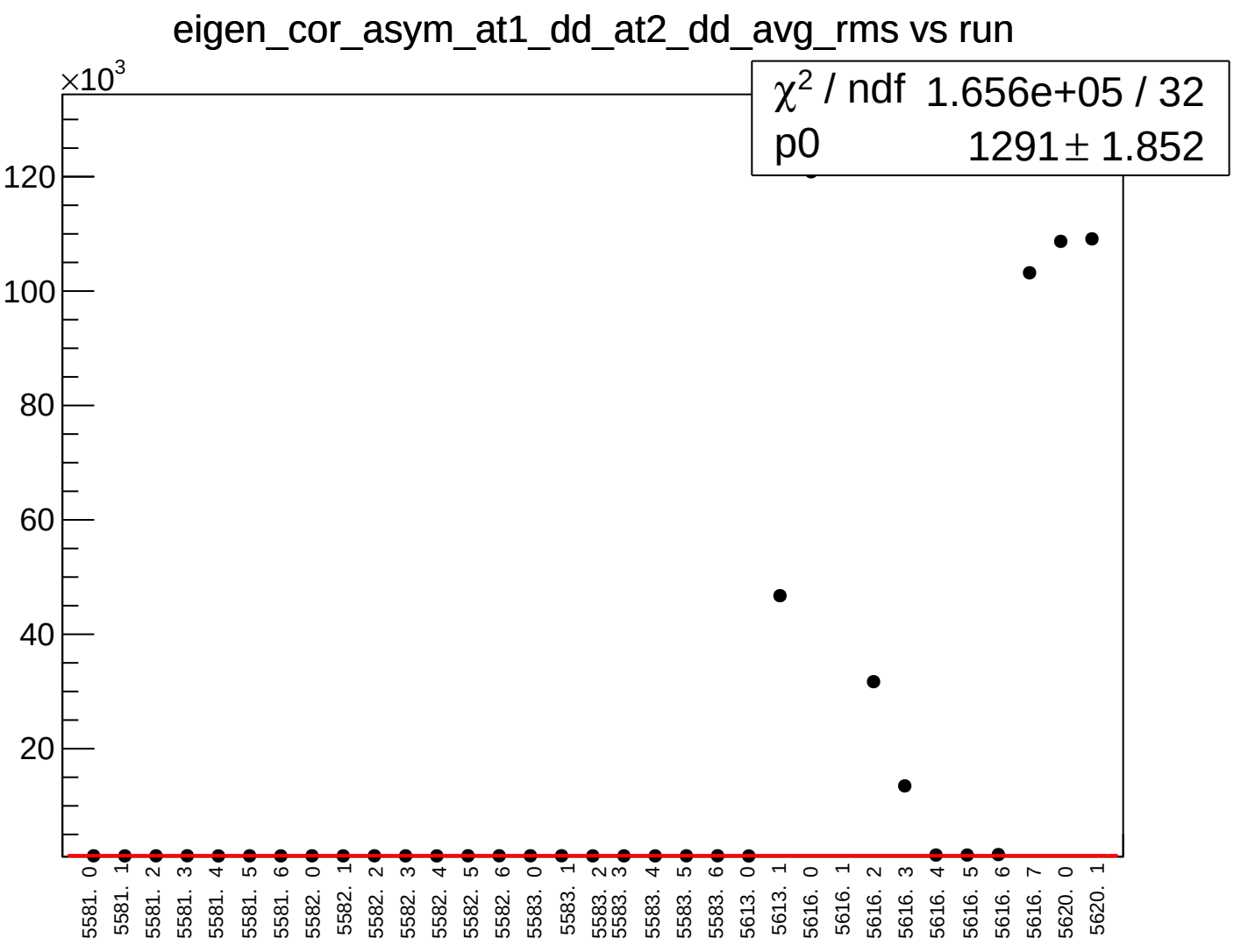

cor_asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ^2 / ndf 43.77 / 25
p0 1277 ± 2619
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 29.69
Std Dev 0
pull1D
Entries 26
Mean 0.193
Std Dev 1.283

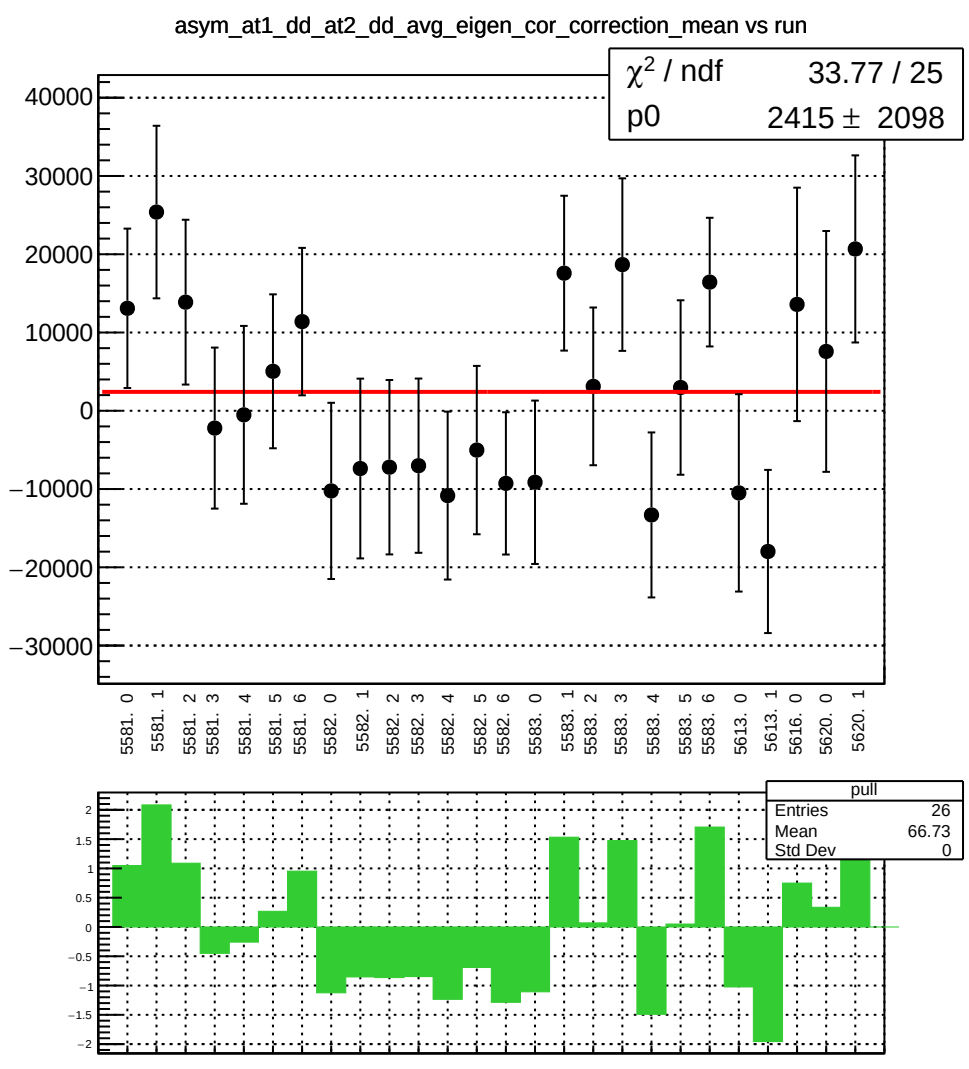

cor_asym_at1_dd_at2_dd_avg_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 1.656e+05 / 32
p0 1291 ± 1.852
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

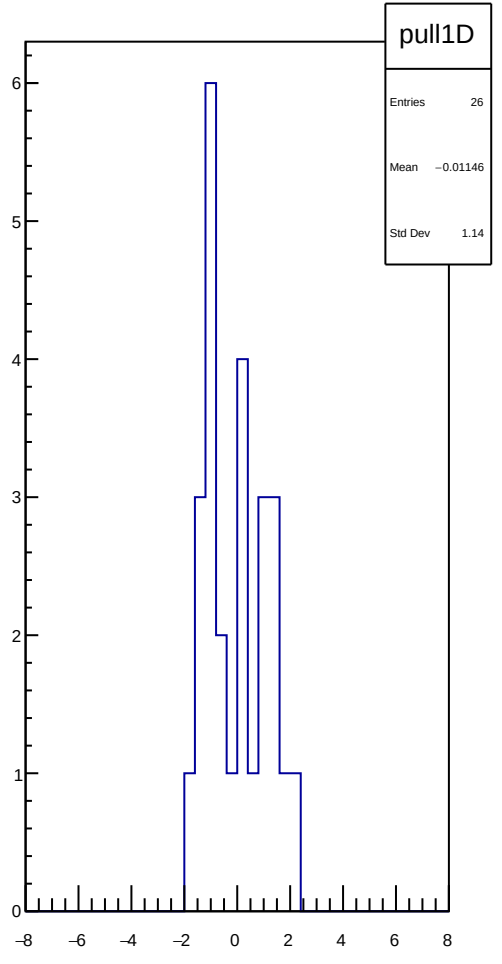

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 33.77 / 25
p0 2415 ± 2098
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 66.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.01146
Std Dev 1.14
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

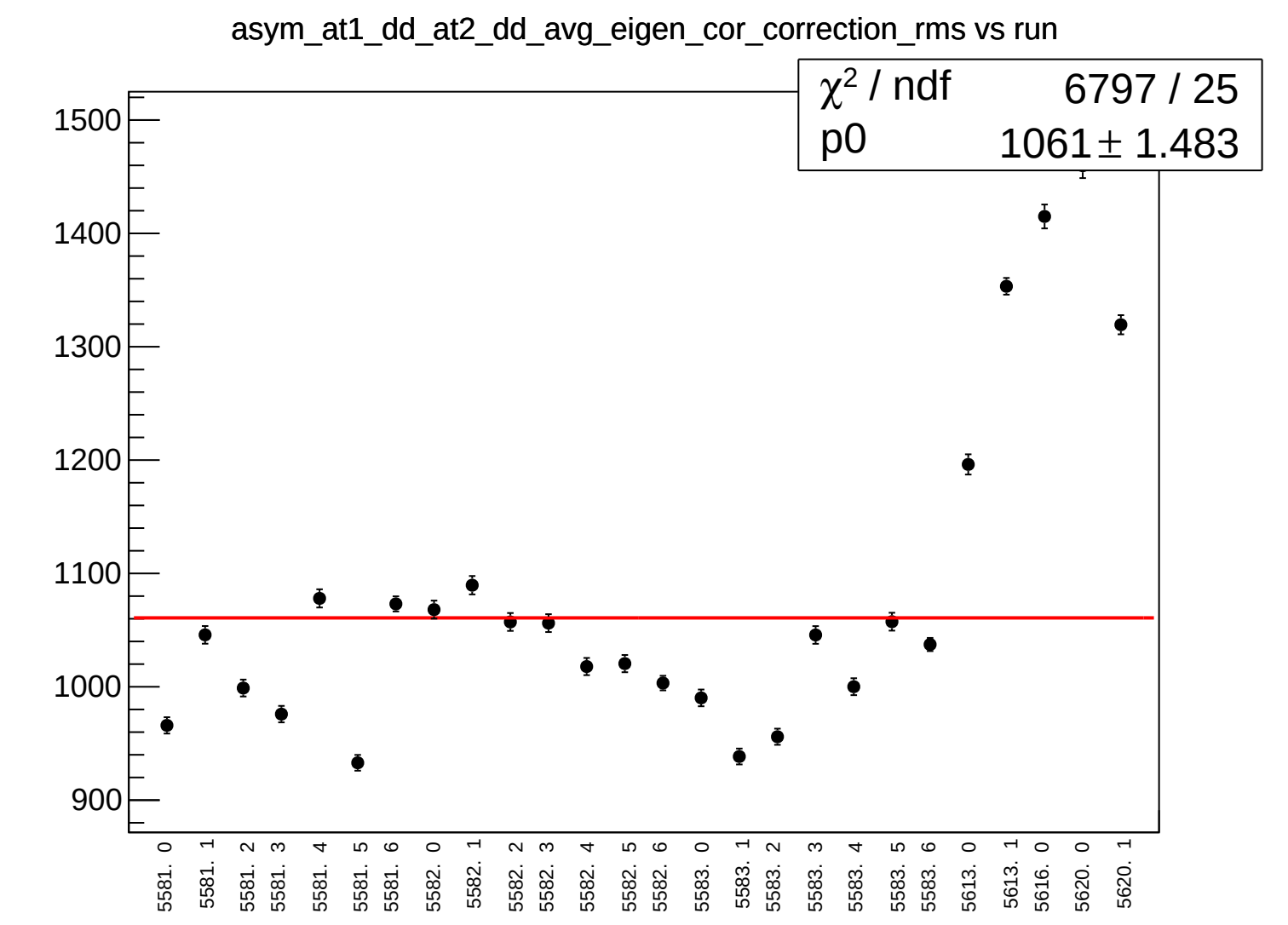

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 6797 / 25
p0 1061 ± 1.483
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

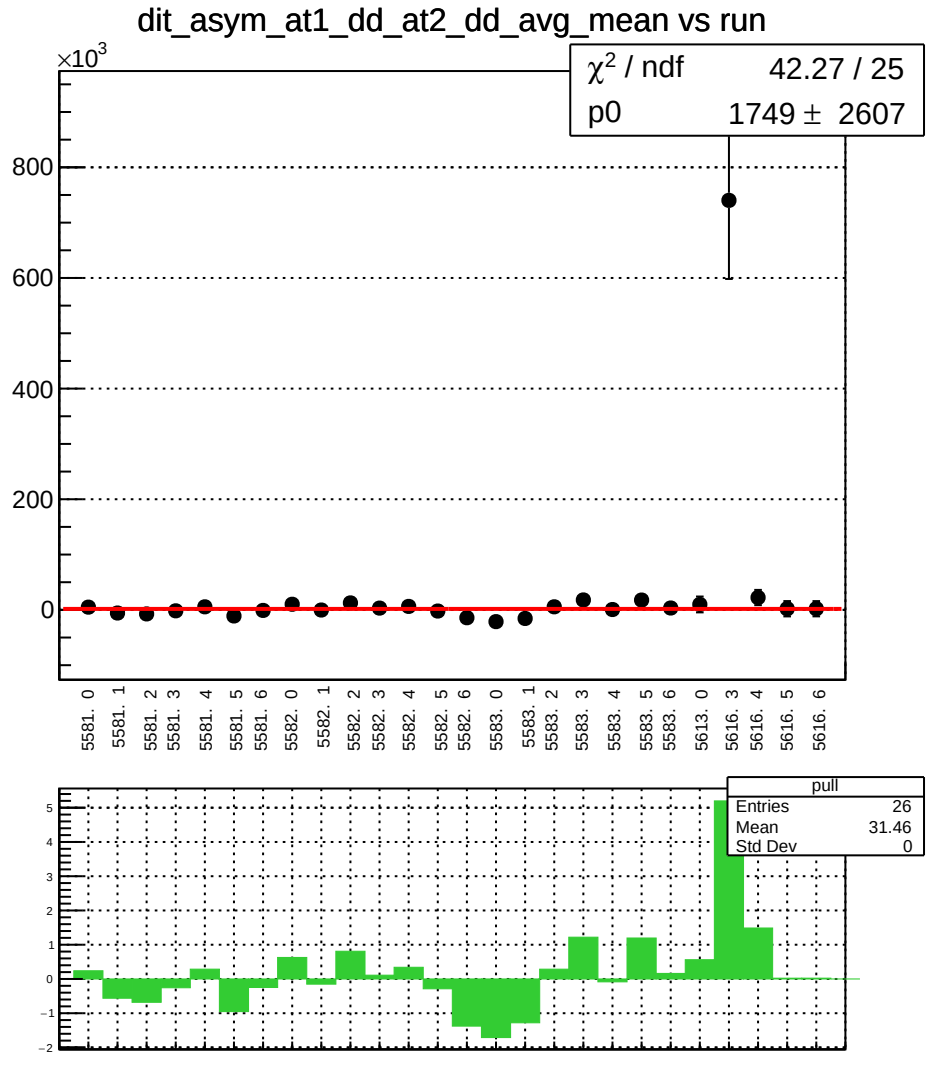

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ^2 / ndf 43.77 / 25
p0 1277 ± 2619
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 29.69
Std Dev 0
pull1D
Entries 26
Mean 0.193
Std Dev 1.283

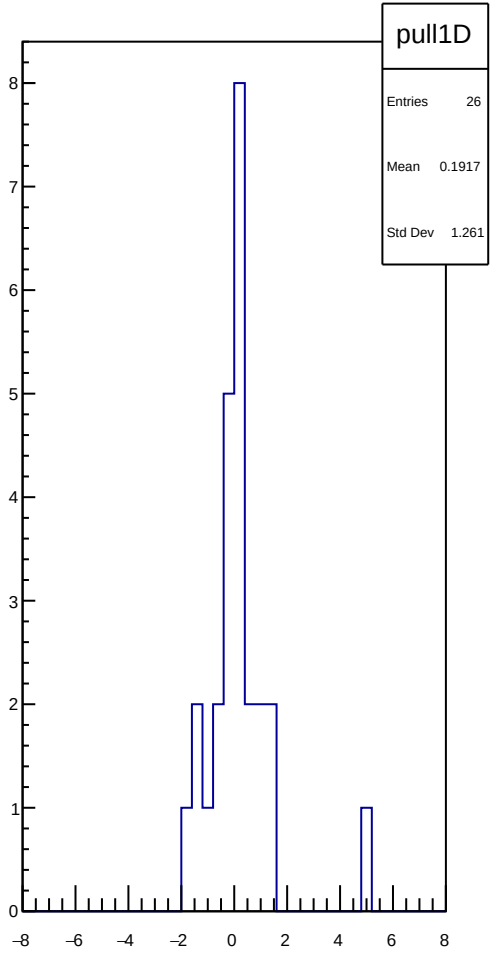

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.656e+05 / 32
p0 1291 ± 1.852
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

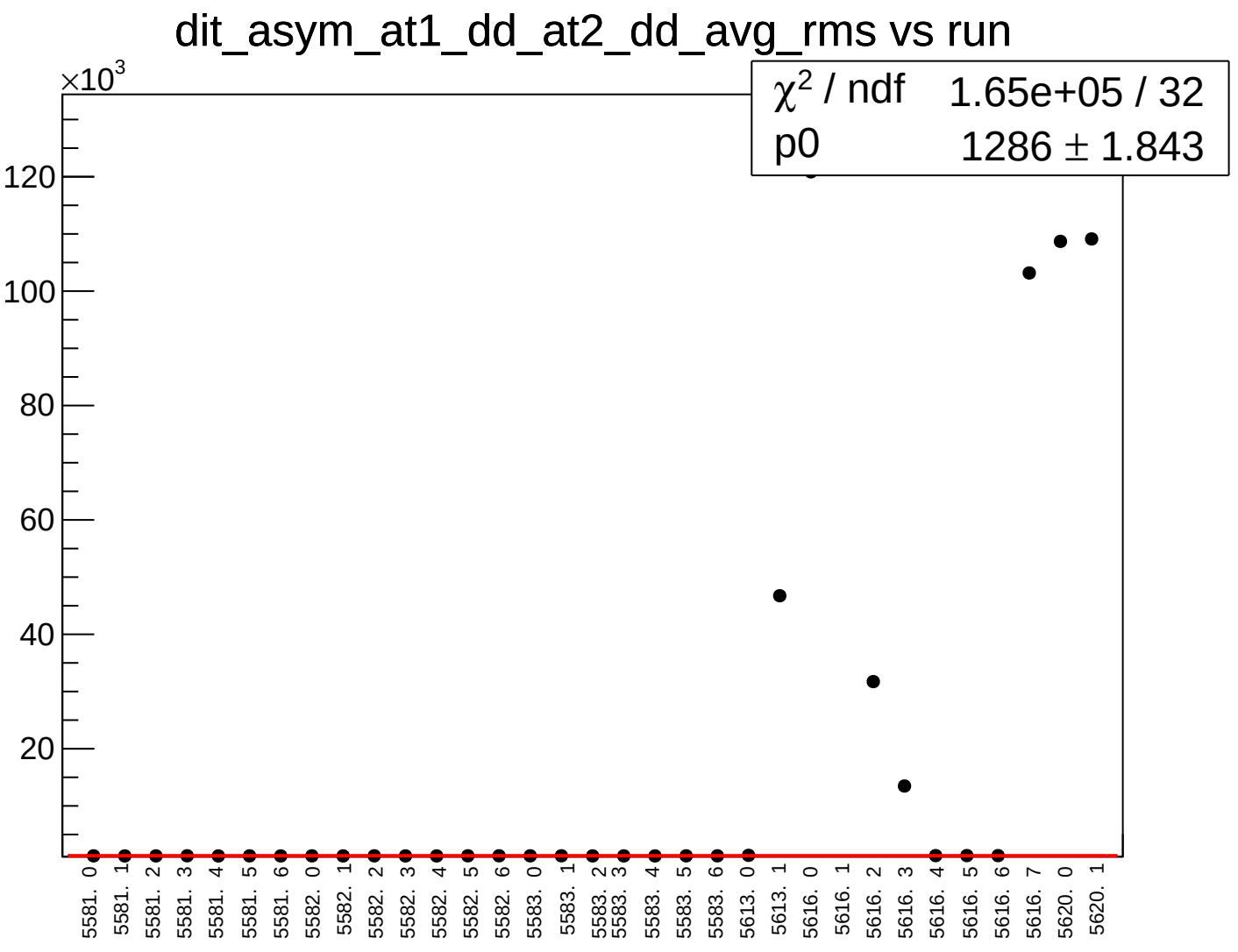

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 33.77 / 25
p0 2415 ± 2098
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 66.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

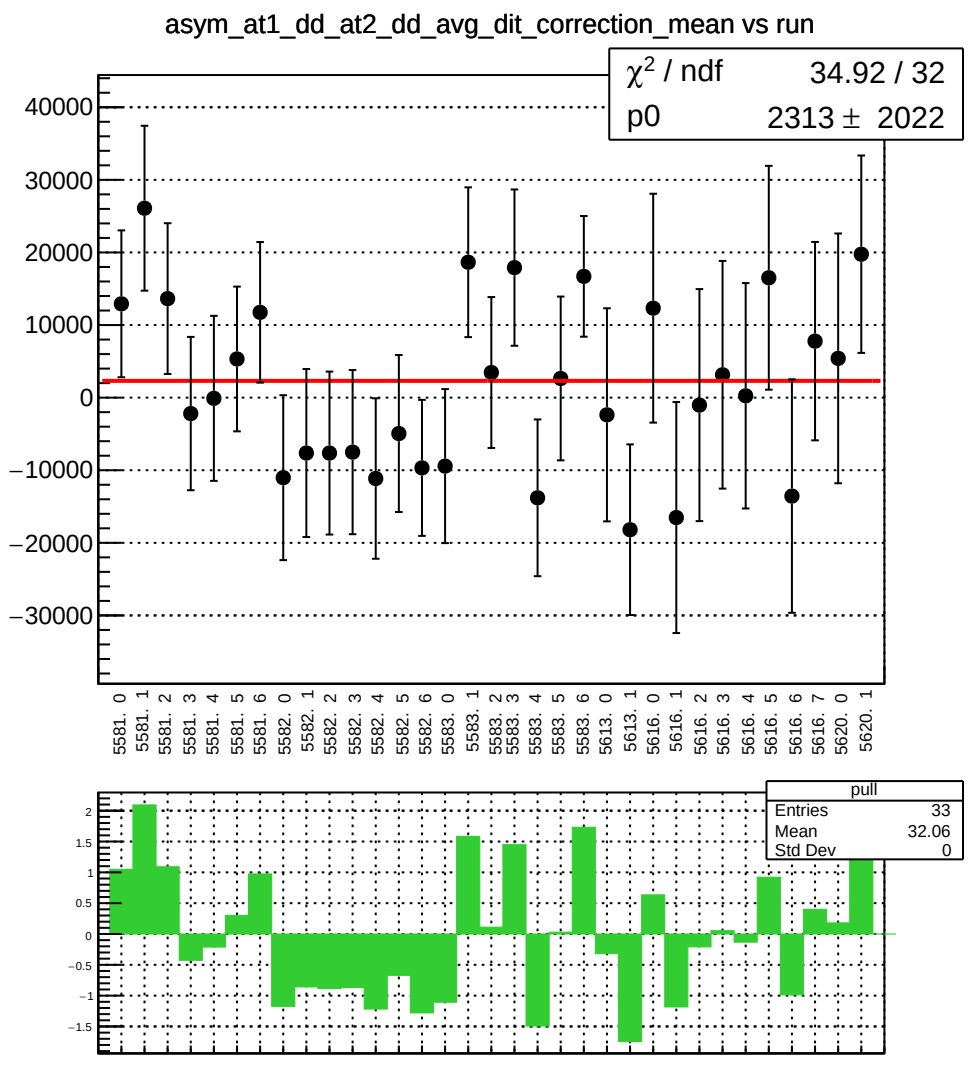

pull1D
Entries 26
Mean −0.01146
Std Dev 1.14
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

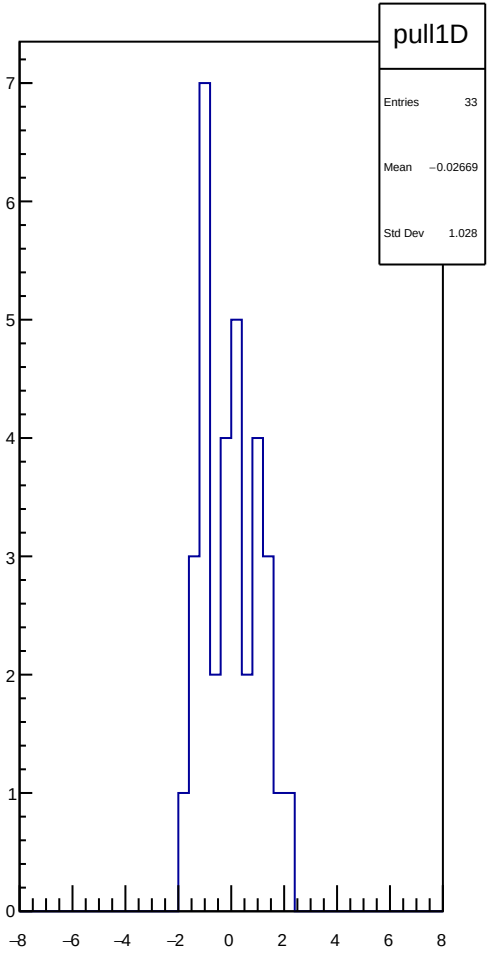

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6797 / 25
p0 1061 ± 1.483
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

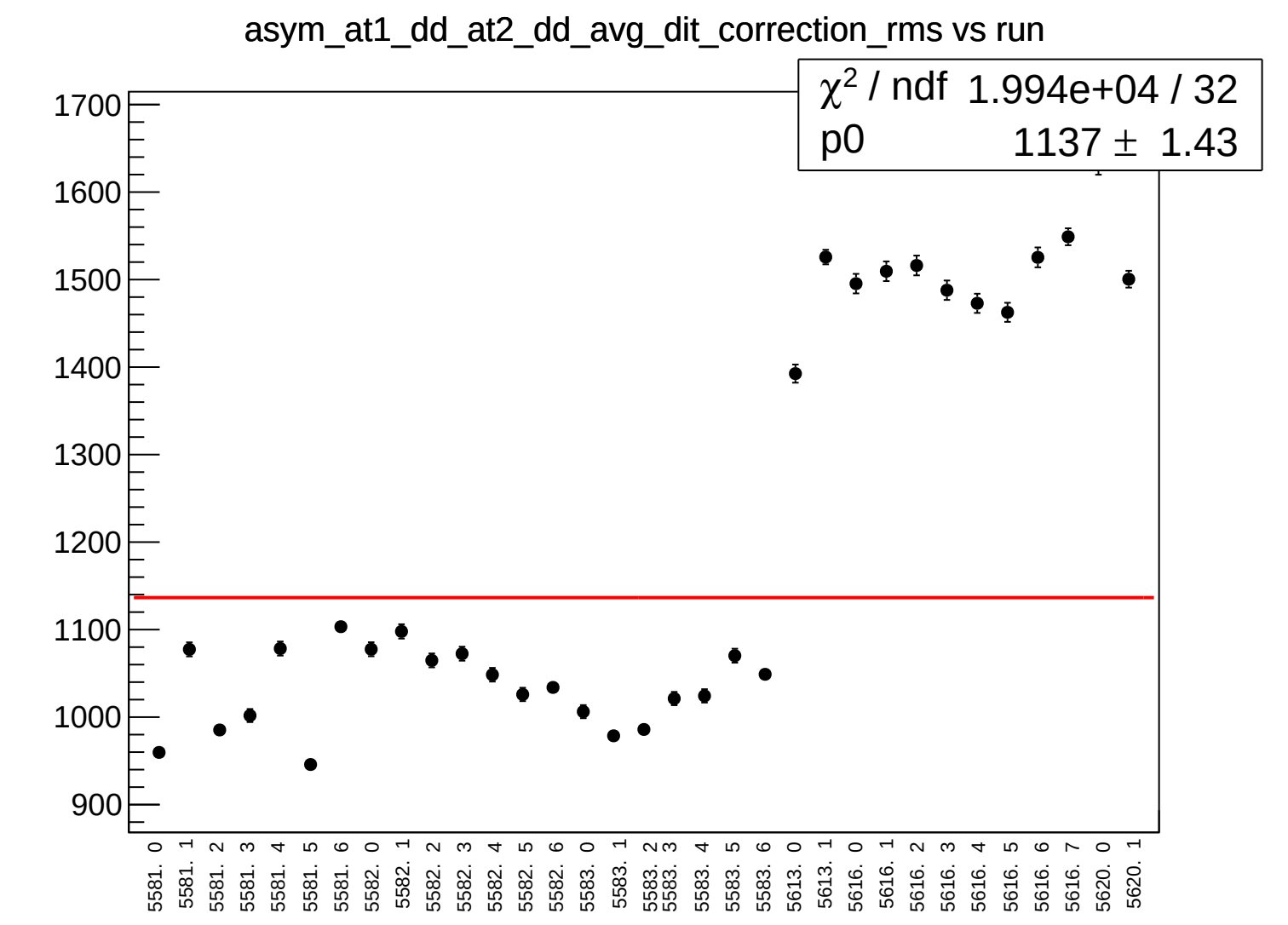

dit_asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ^2 / ndf 42.27 / 25
p0 1749 ± 2607
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 31.46
Std Dev 0
5
4
3
2
1
0
−1
−2

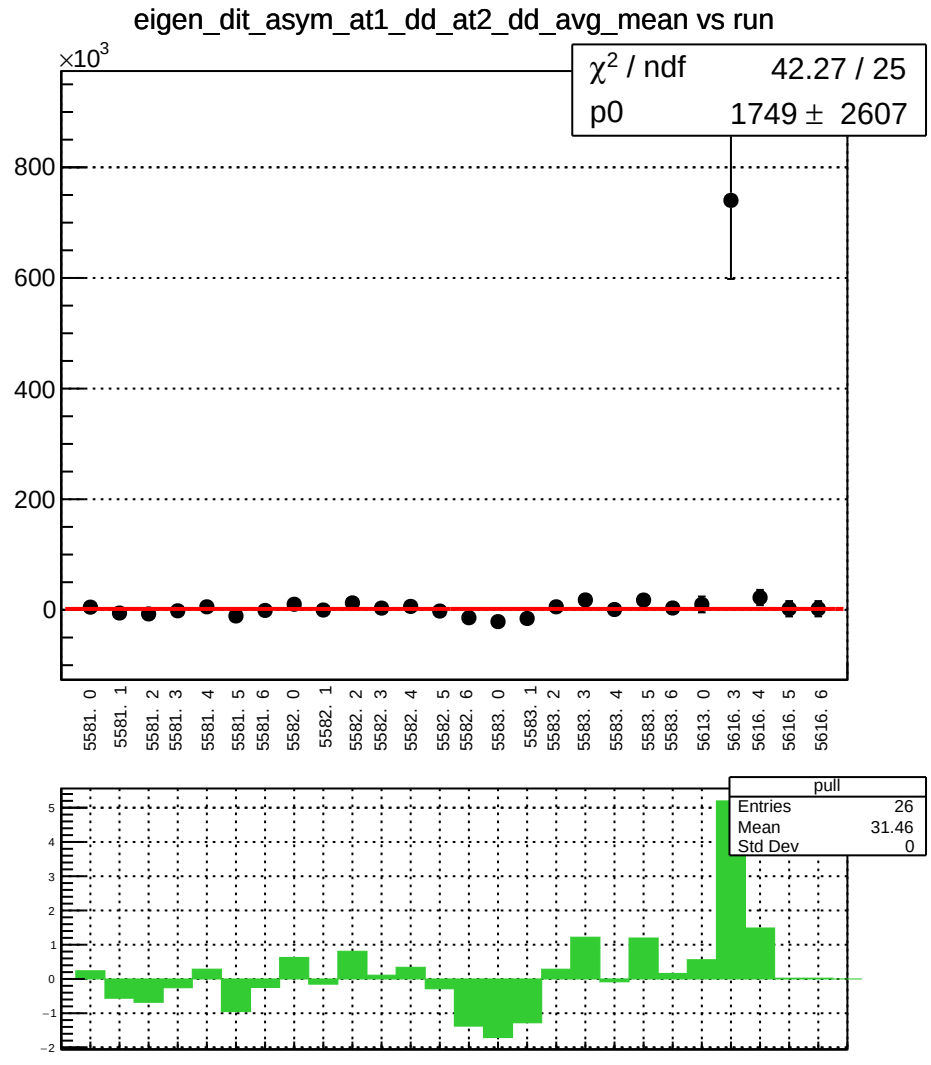

pull1D
Entries 26
Mean 0.1917
Std Dev 1.261
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

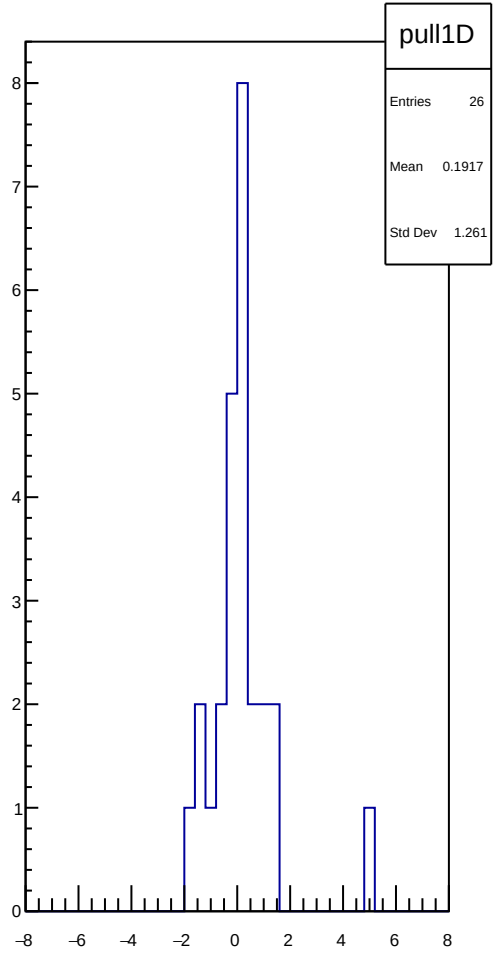

dit_asym_at1_dd_at2_dd_avg_rms vs run
×10^3
χ² / ndf 1.65e+05 / 32
p0 1286 ± 1.843
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

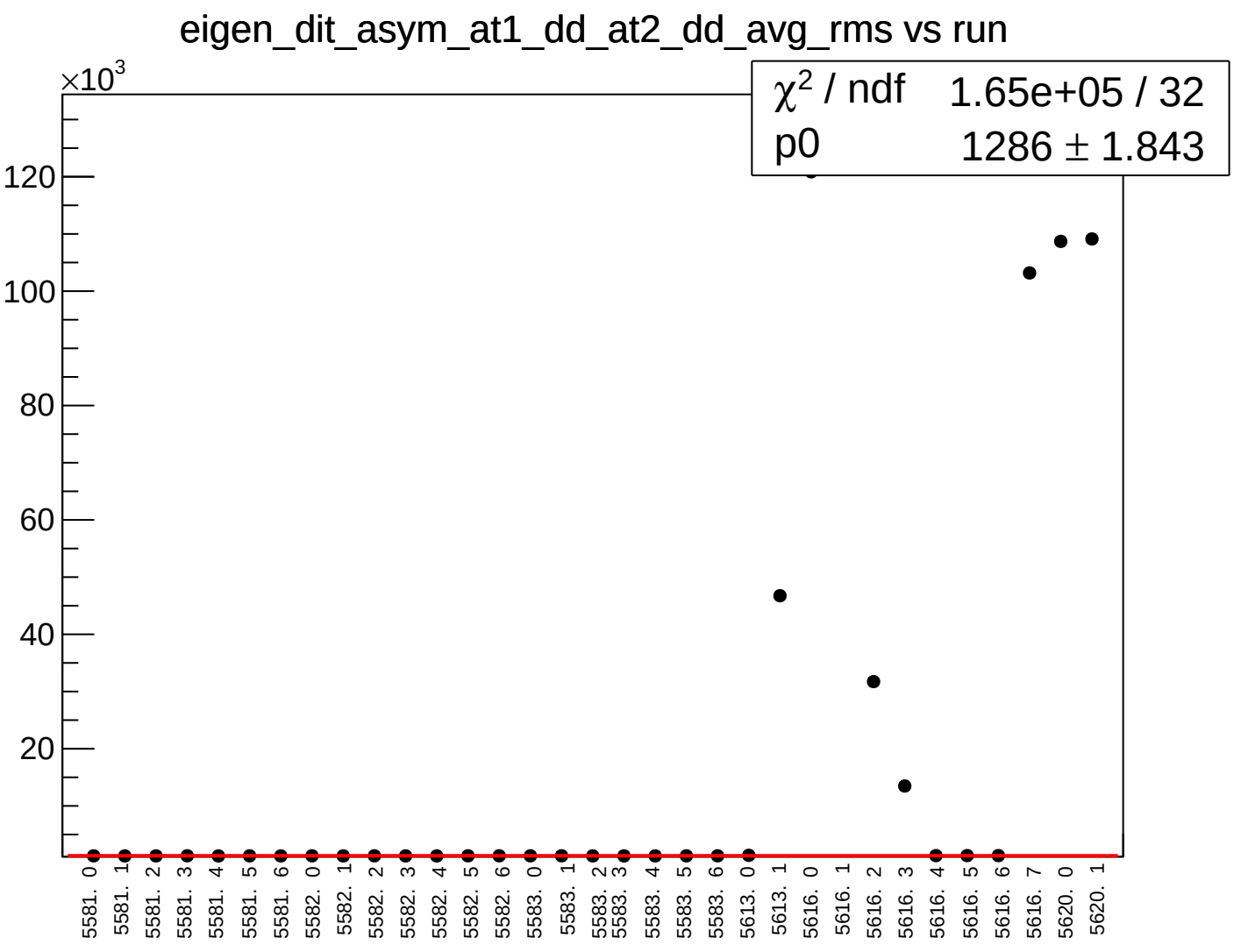

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 34.92 / 32
p0 2313 ± 2022
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 32.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

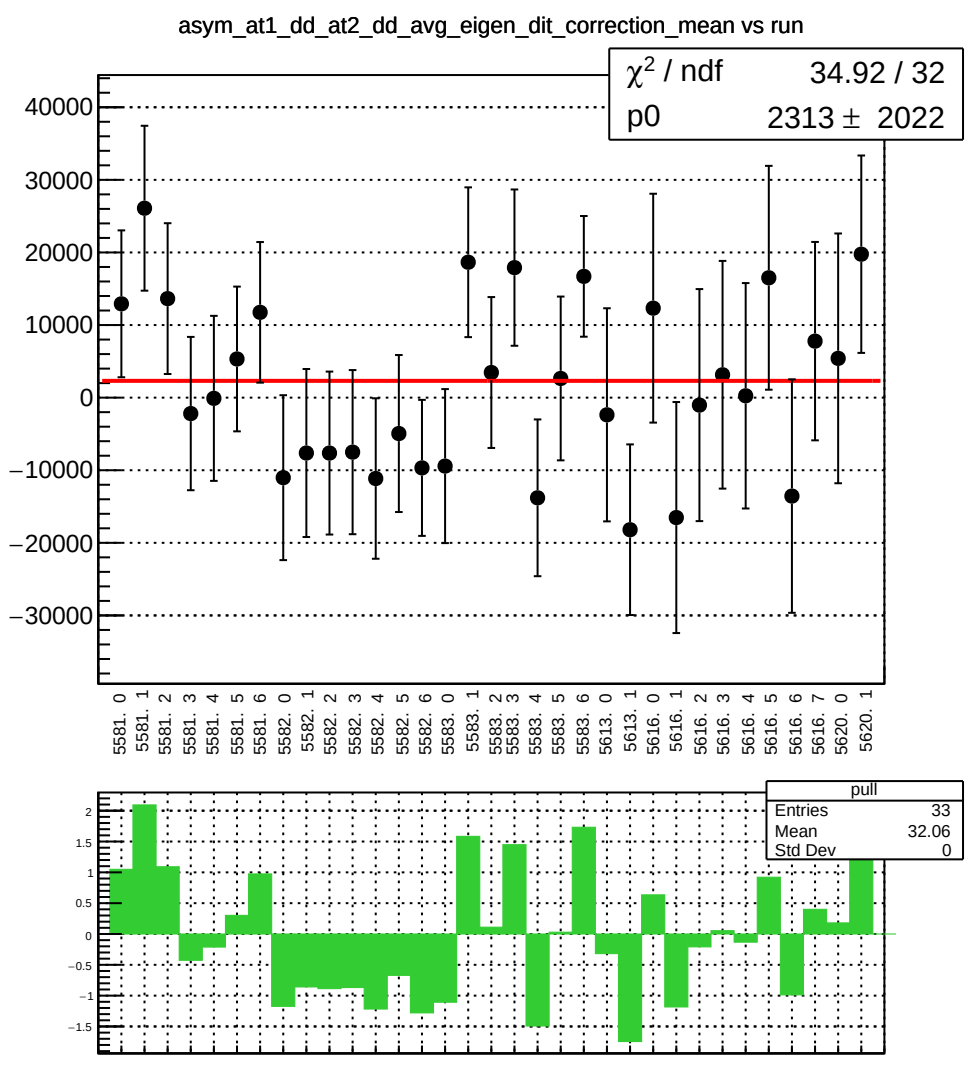

pull1D
Entries 33
Mean −0.02669
Std Dev 1.028
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

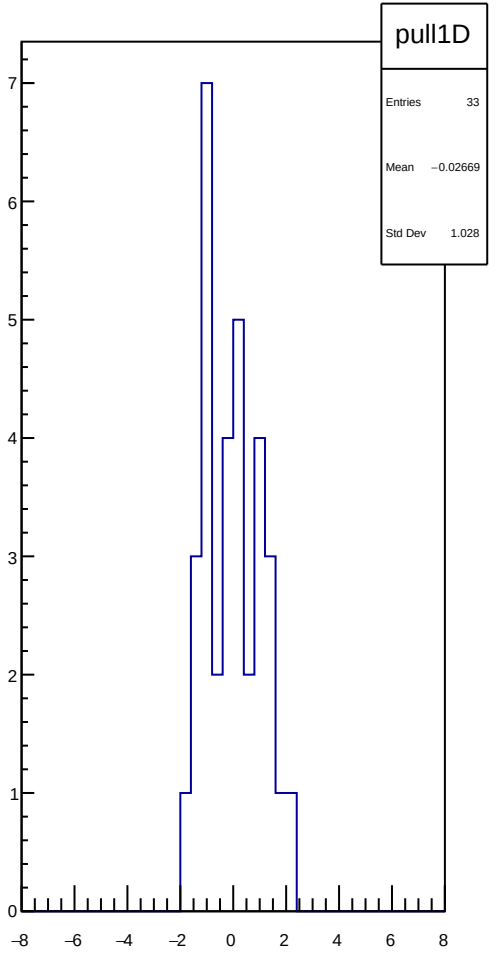

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.994e+04 / 32
p0 1137 ± 1.43
1700
1600
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

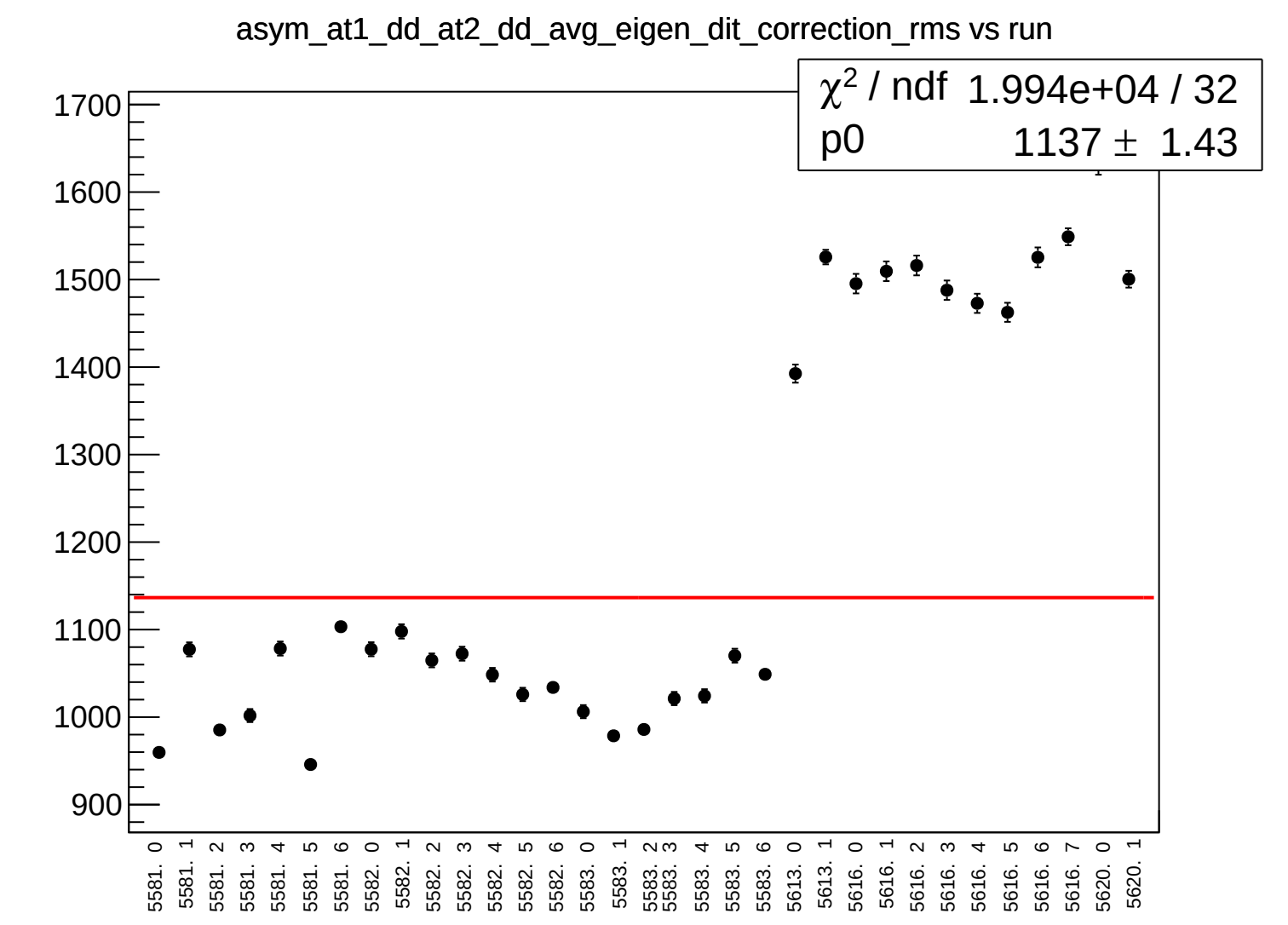

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ² / ndf 42.27 / 25
p0 1749 ± 2607
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 31.46
Std Dev 0
5
4
3
2
1
0
−1
−2

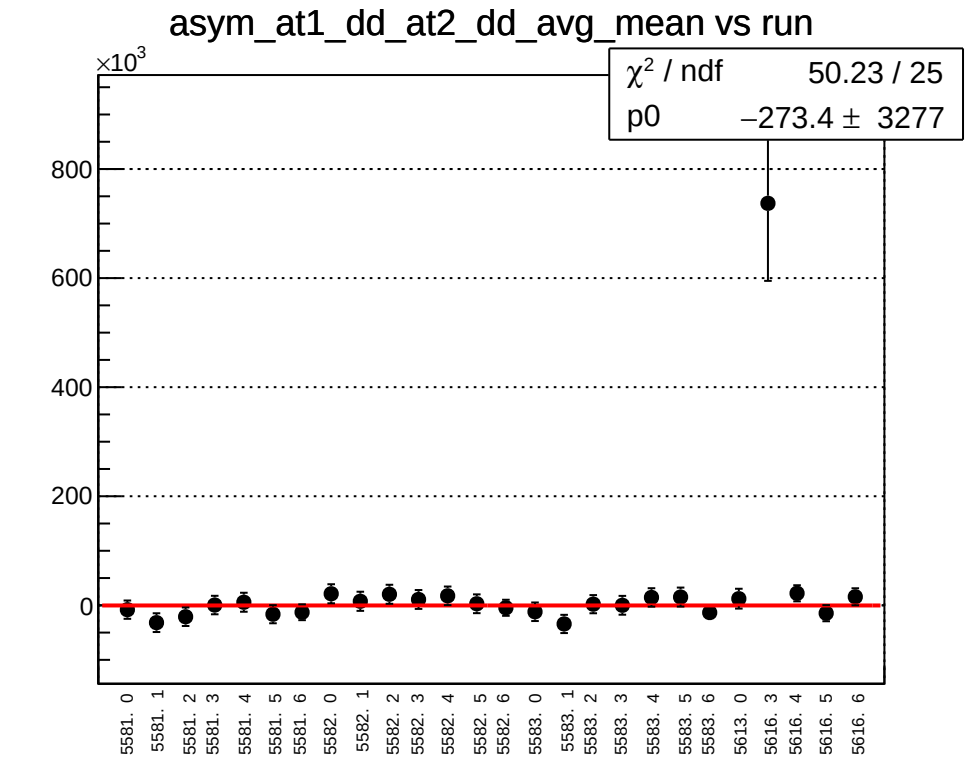

pull1D
Entries 26
Mean 0.1917
Std Dev 1.261
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

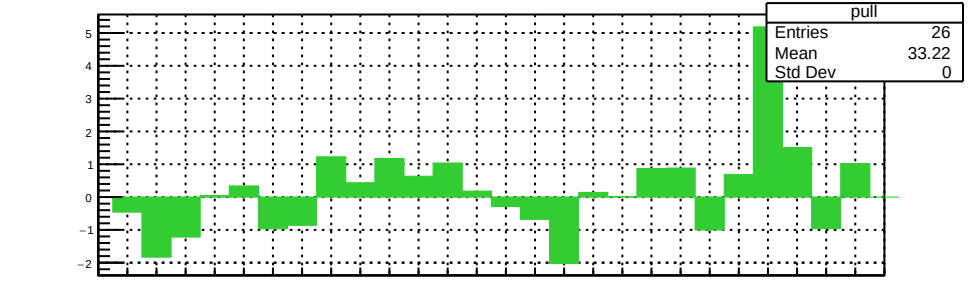

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.65e+05 / 32
p0 1286 ± 1.843
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

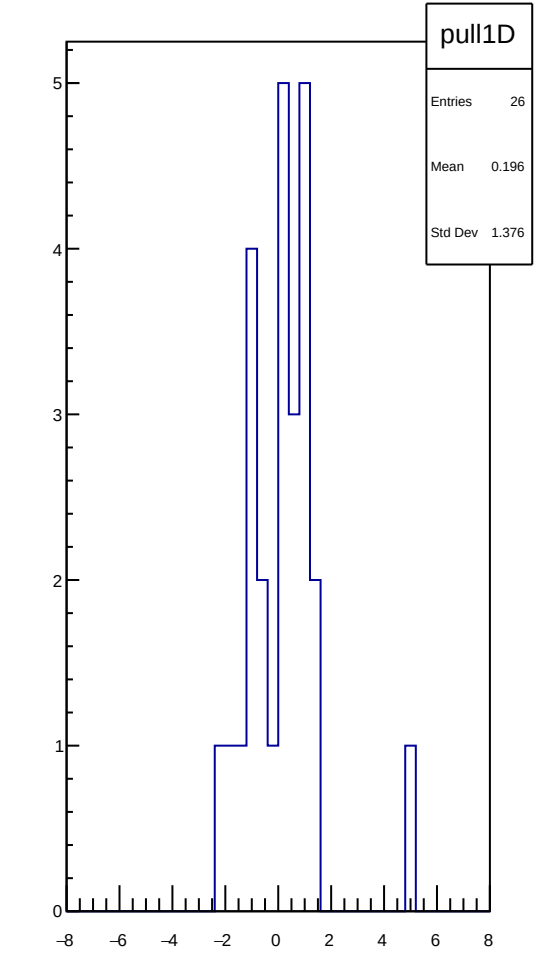

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 34.92 / 32
p0 2313 ± 2022
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 32.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

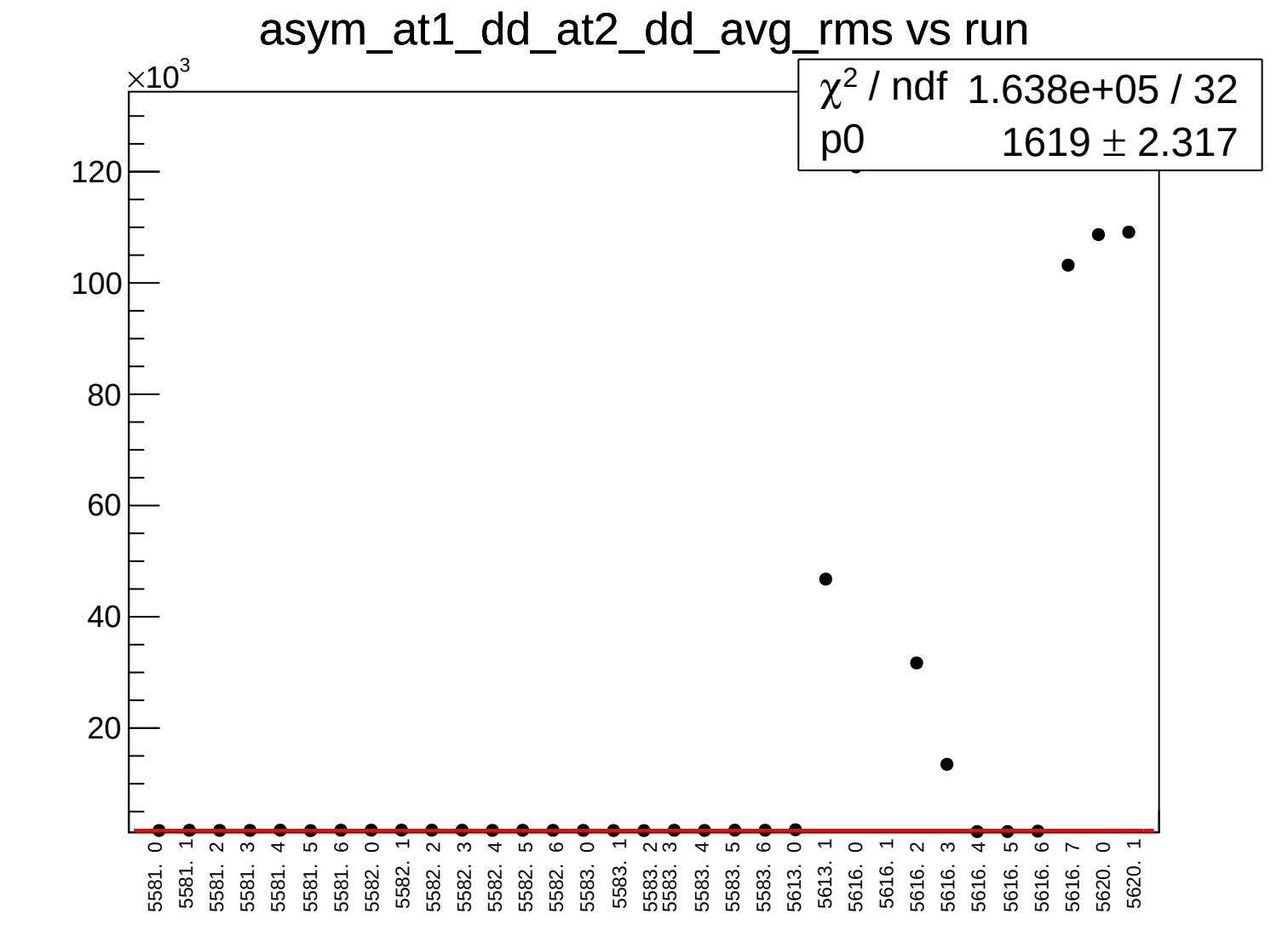

pull1D
Entries 33
Mean −0.02669
Std Dev 1.028
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

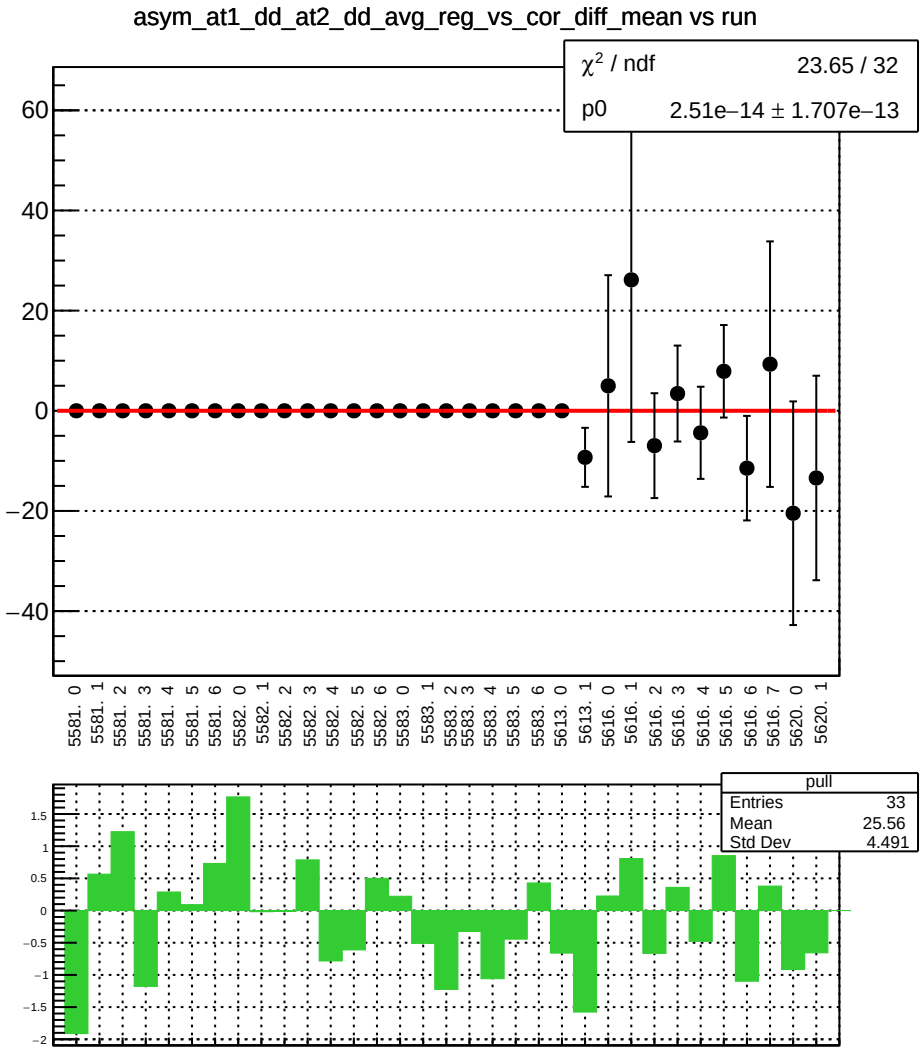

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.994e+04 / 32
p0 1137 ± 1.43
1700
1600
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

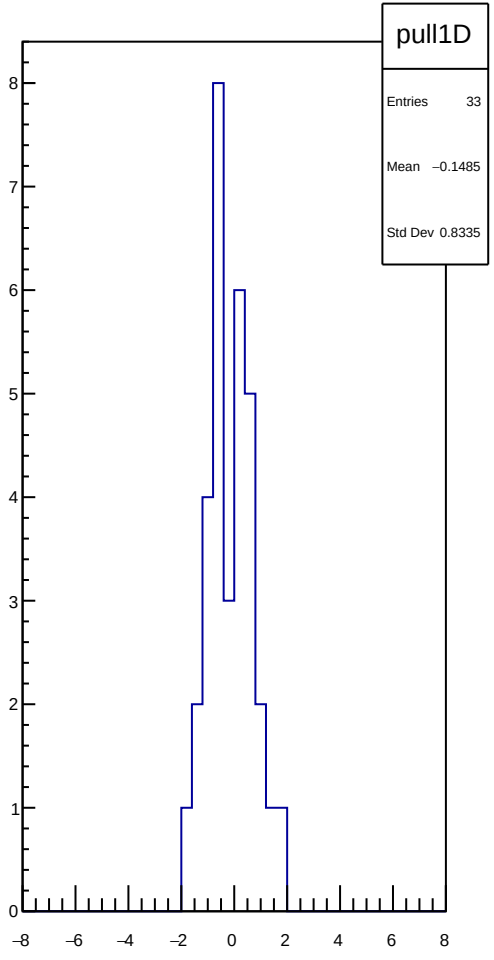

asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ² / ndf 50.23 / 25
p0 −273.4 ± 3277
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6

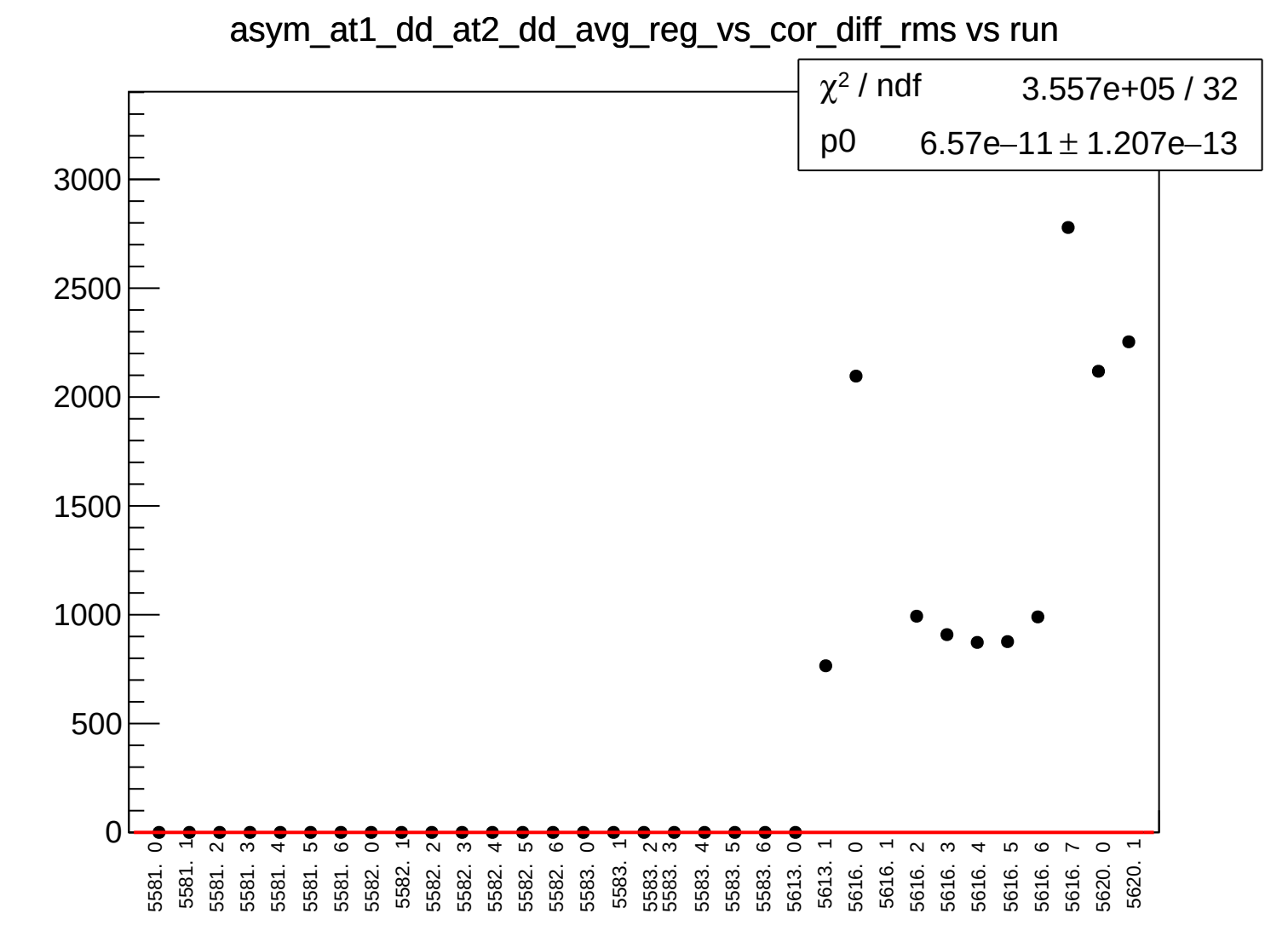

pull
Entries 26
Mean 33.22
Std Dev 0

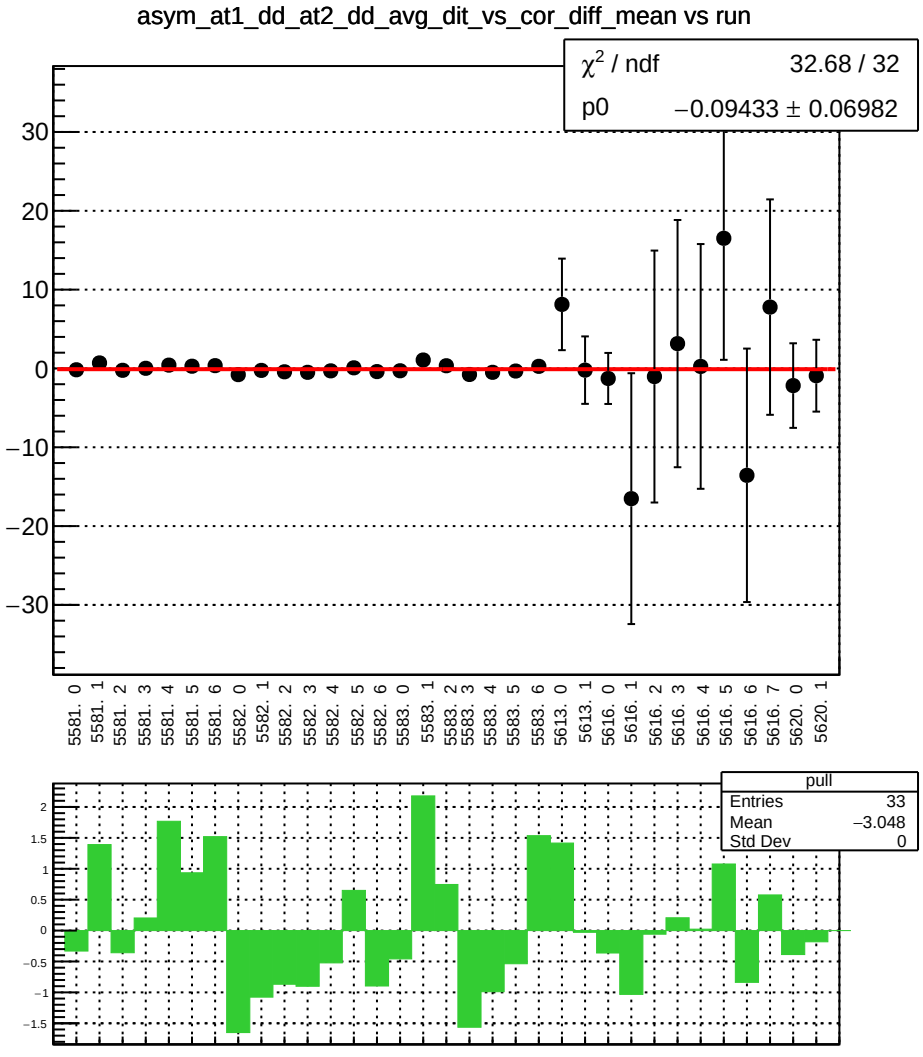

pull1D
Entries 26
Mean 0.196
Std Dev 1.376

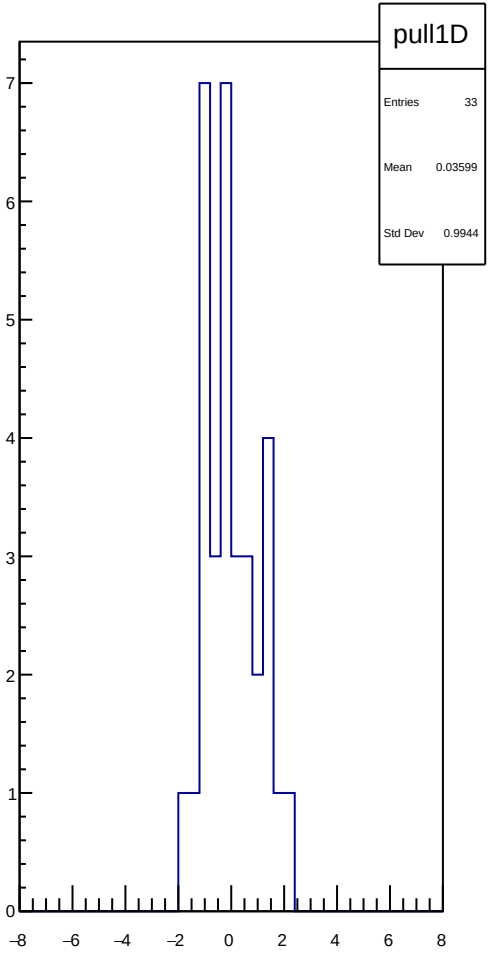

asym_at1_dd_at2_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.638e+05 / 32
p0 1619 ± 2.317
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

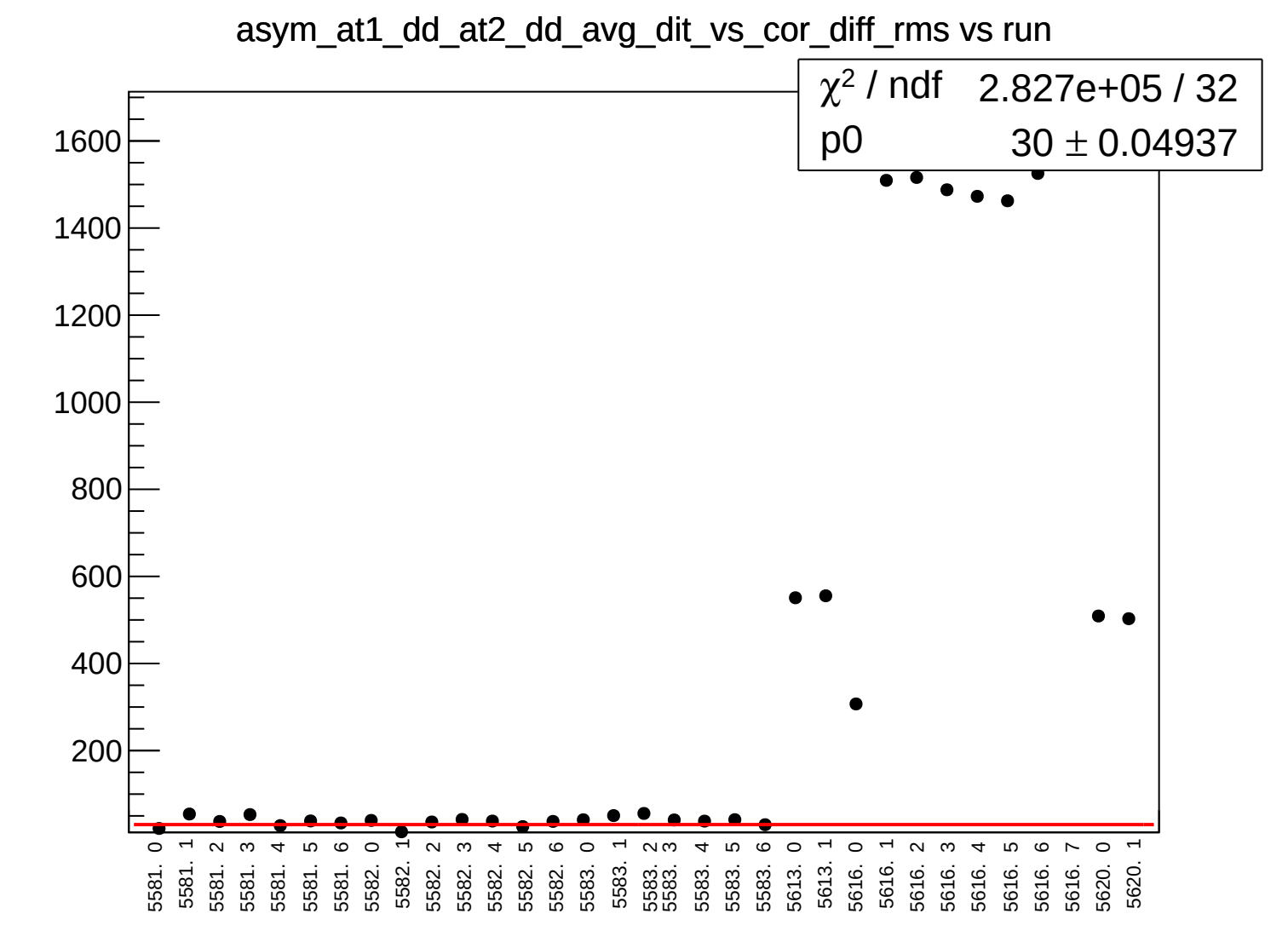

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 23.65 / 32
p0 2.51e−14 ± 1.707e−13
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 25.56
Std Dev 4.491
1.5
1
0.5
0
−0.5
−1
−1.5
−2

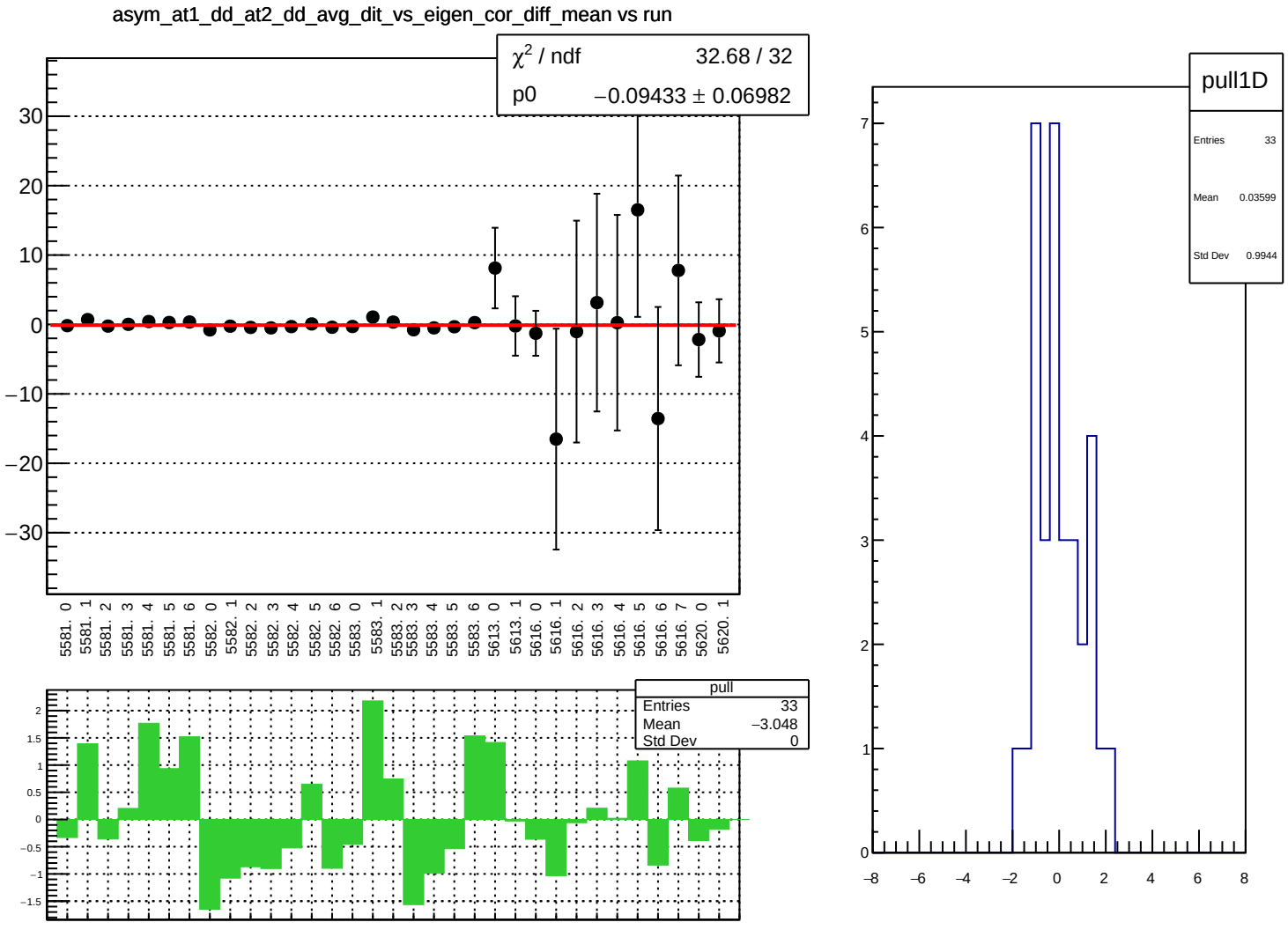

pull1D
Entries 33
Mean −0.1485
Std Dev 0.8335
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

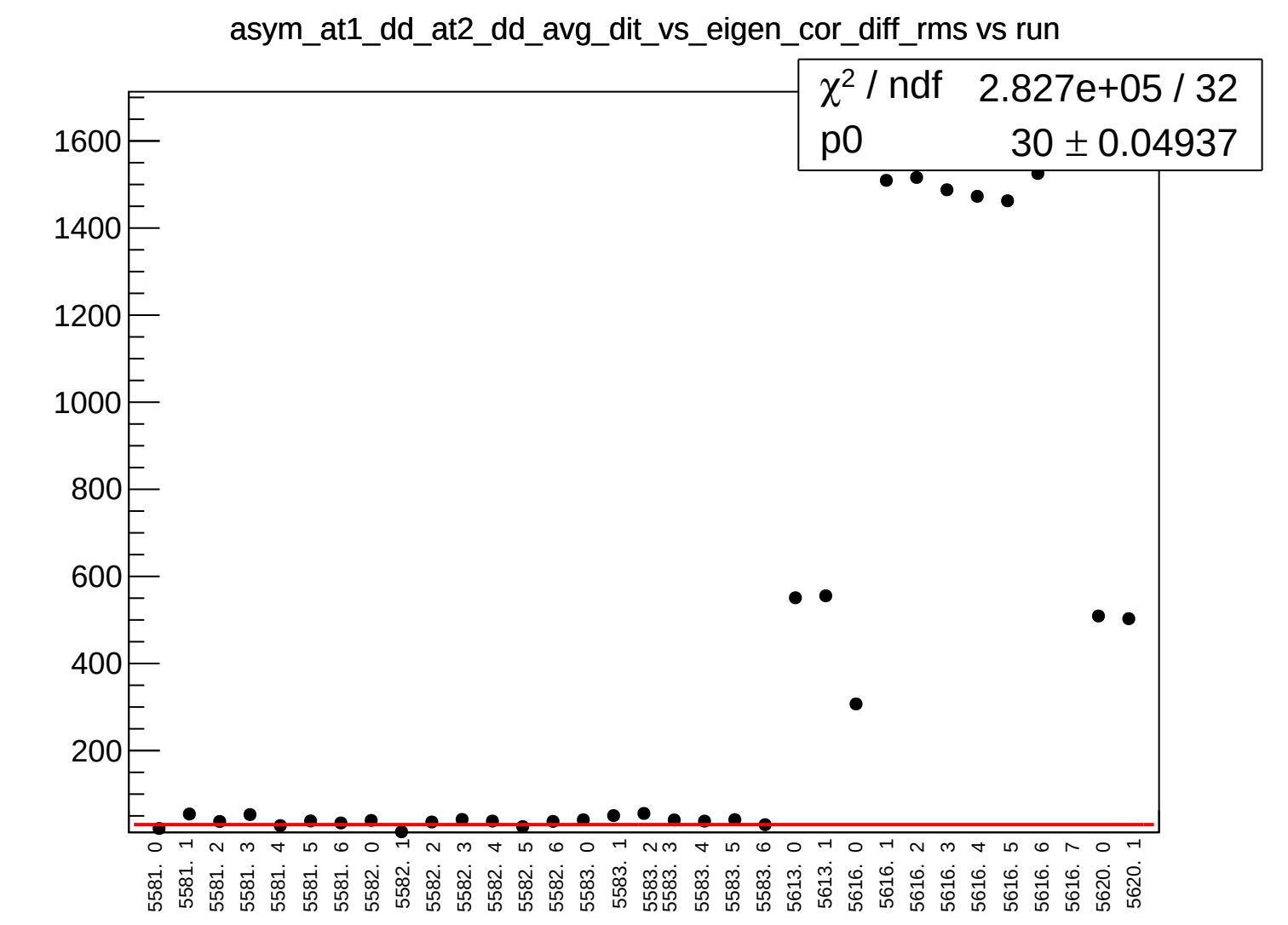

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.557e+05 / 32
p0 6.57e−11 ± 1.207e−13
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

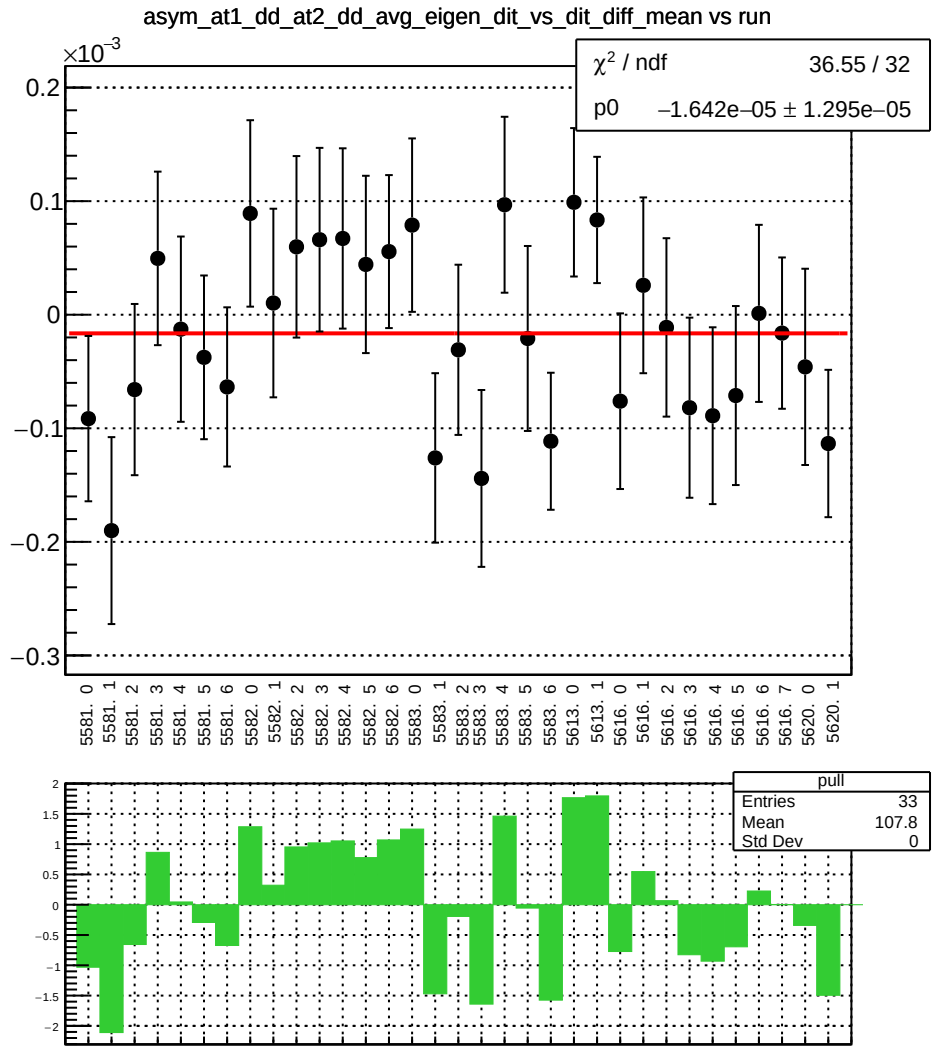

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 32.68 / 32
p0 −0.09433 ± 0.06982
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −3.048
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

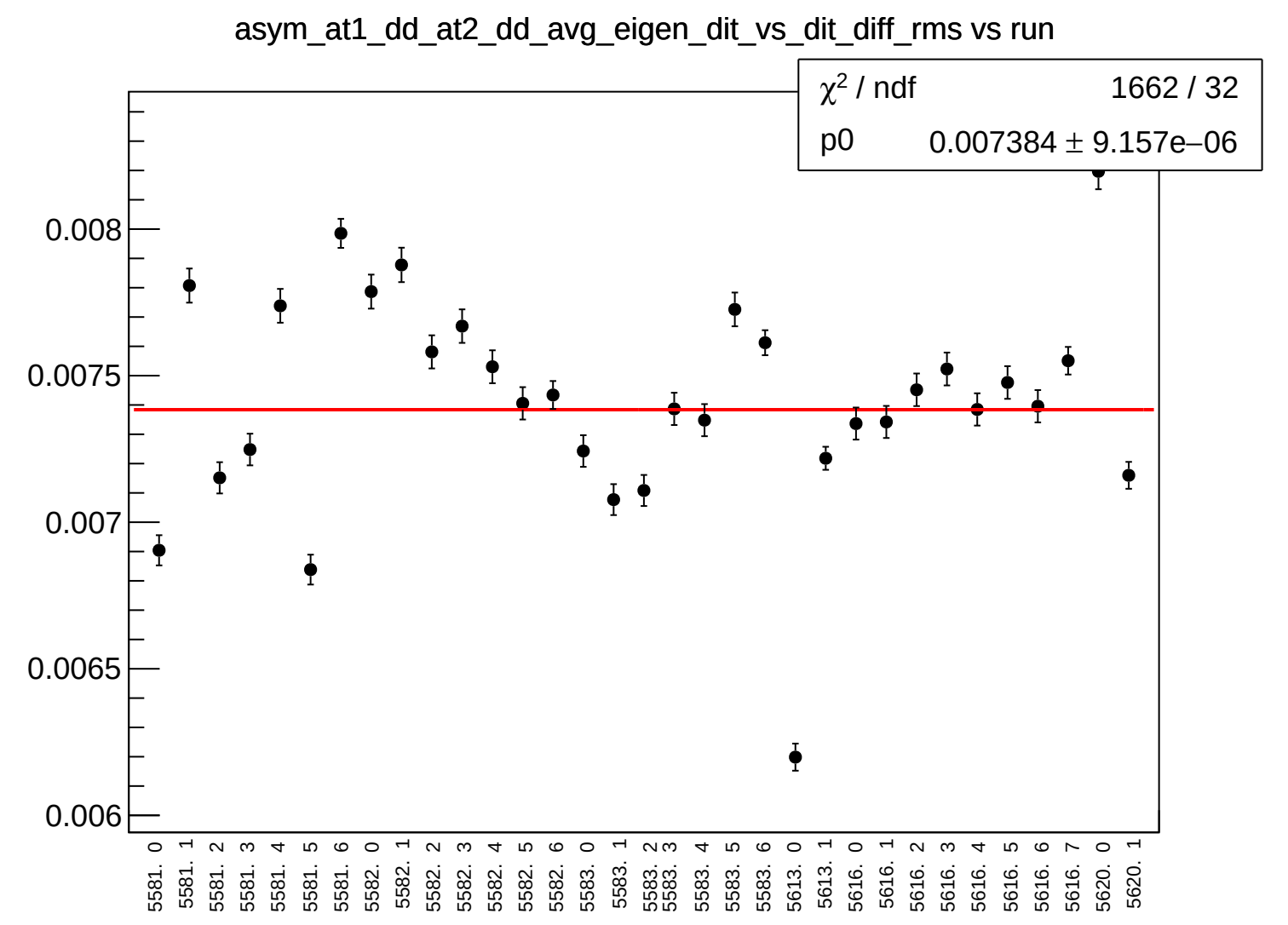

pull1D
Entries 33
Mean 0.03599
Std Dev 0.9944
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

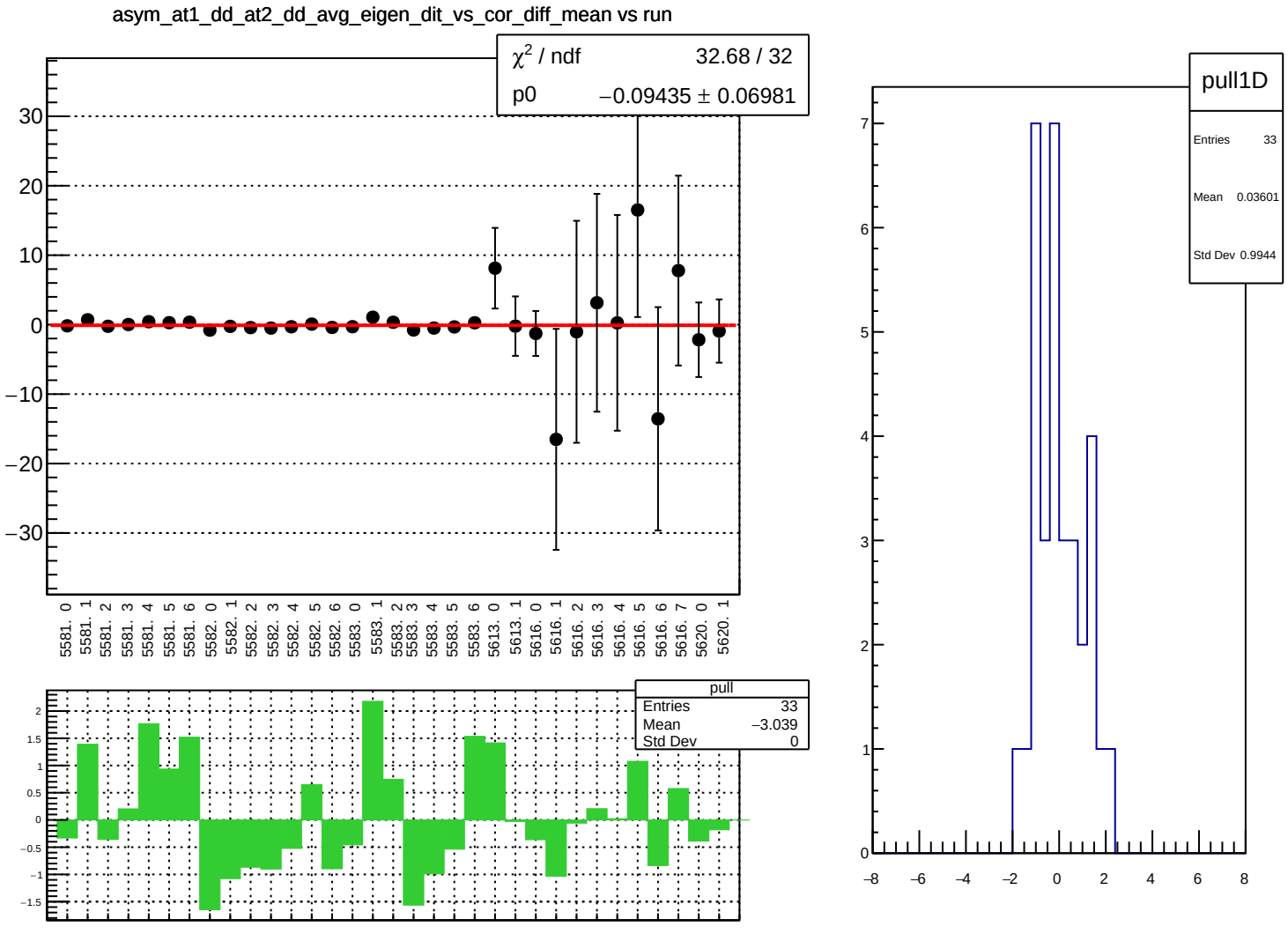

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.827e+05 / 32
p0 30 ± 0.04937
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

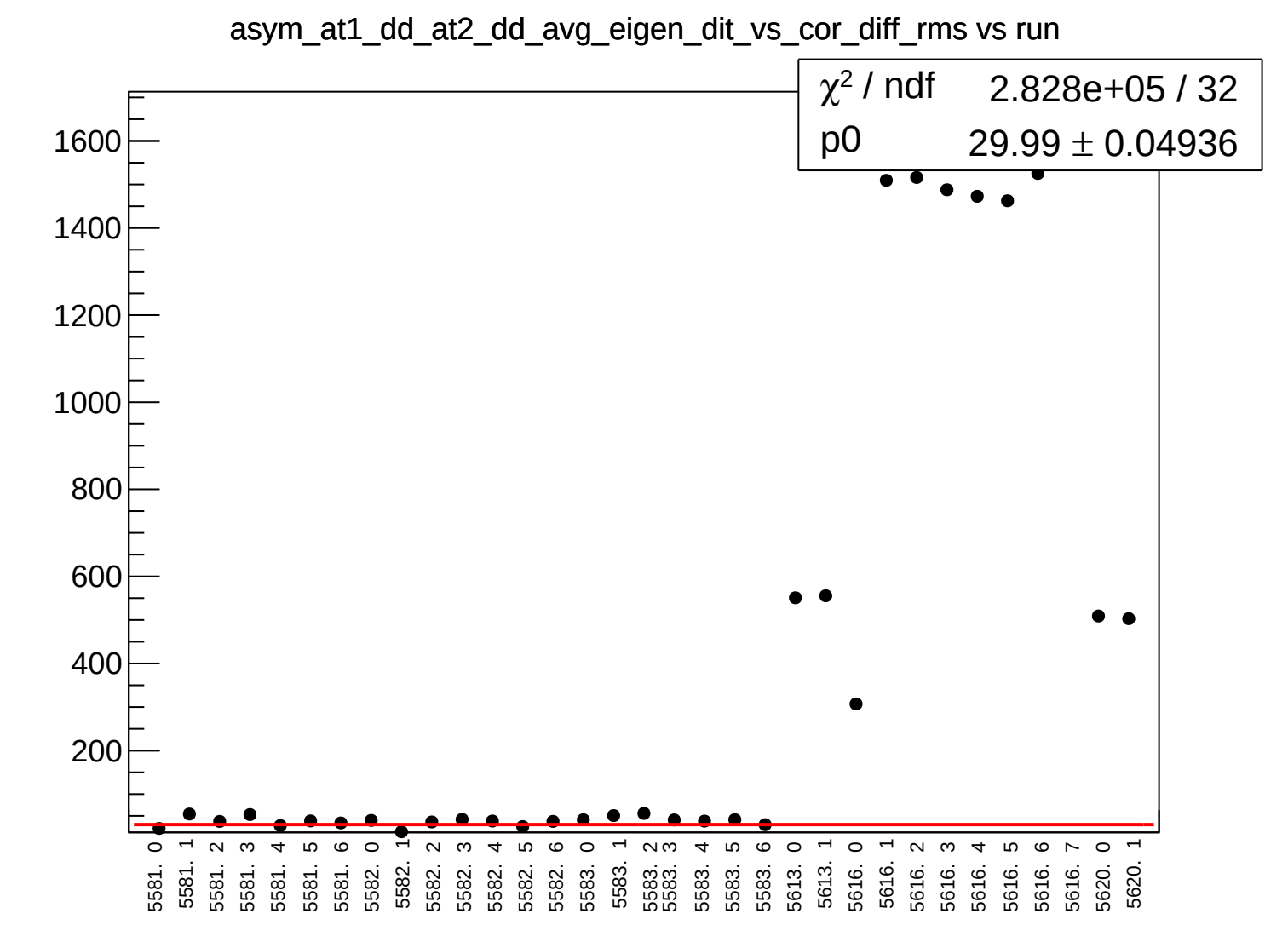

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.68 / 32
p0 −0.09433 ± 0.06982
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −3.048
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.03599
Std Dev 0.9944
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

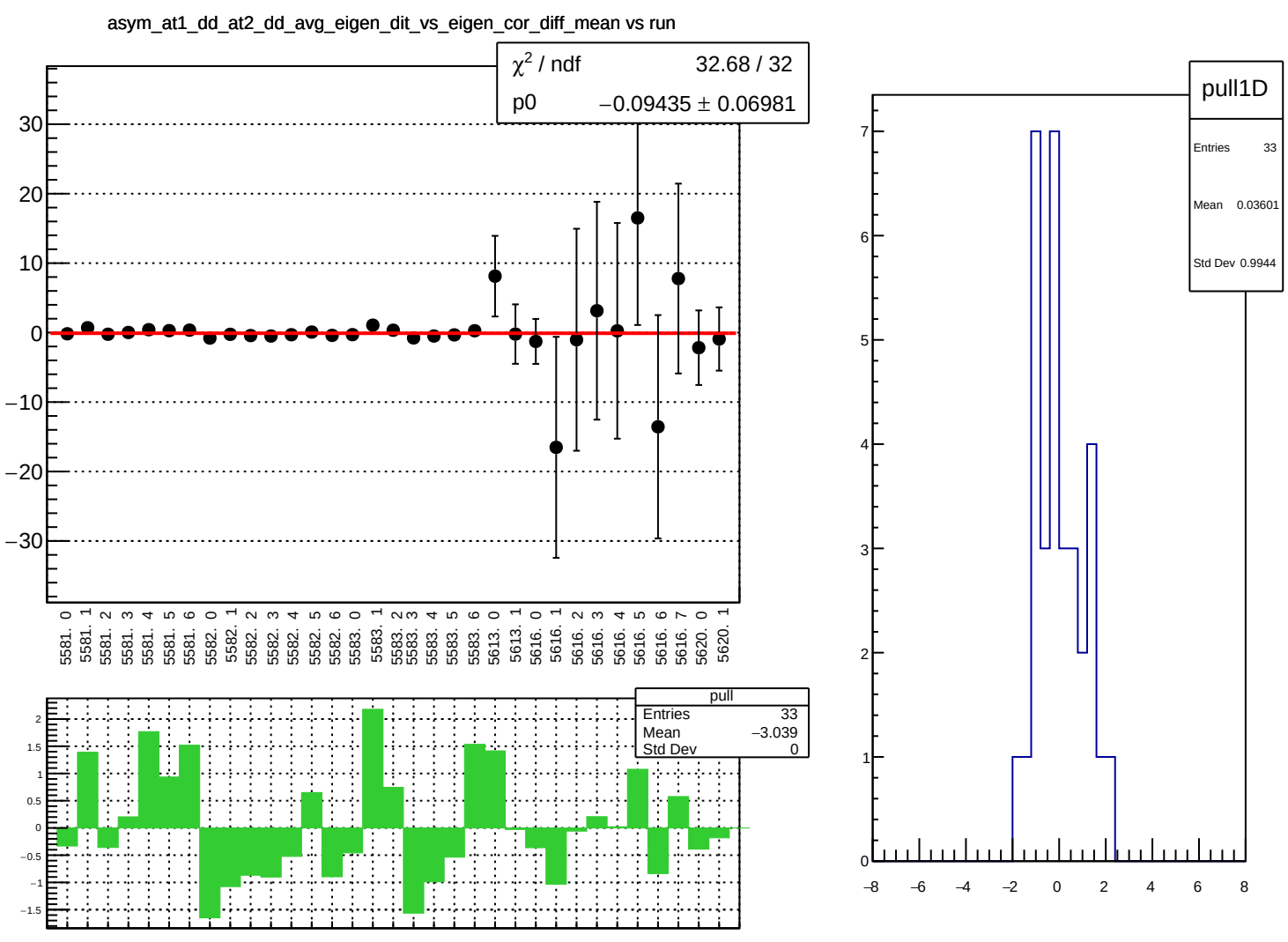

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.827e+05 / 32
p0 30 ± 0.04937
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

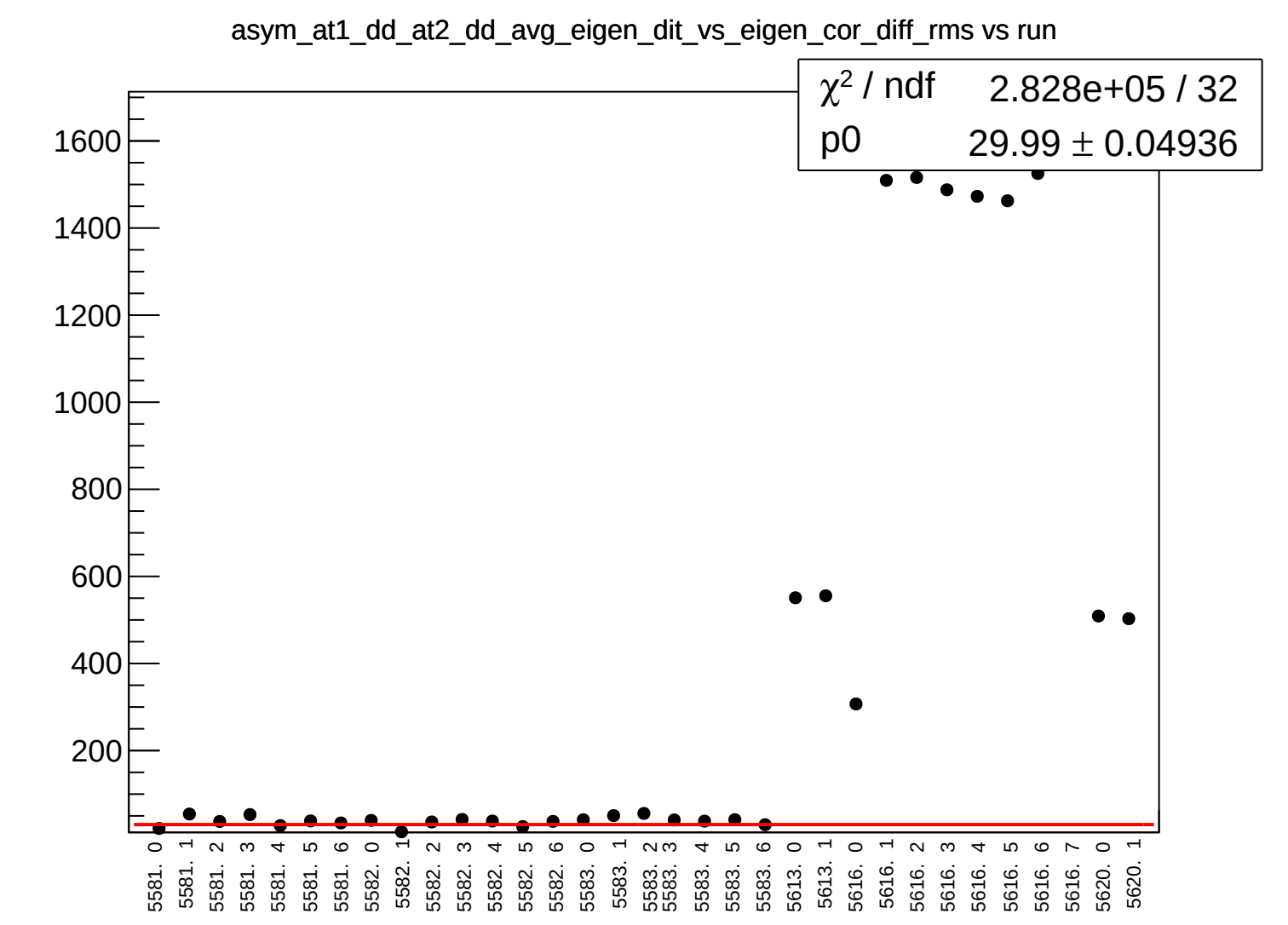

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.55 / 32
p0 −1.642e−05 ± 1.295e−05
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 107.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.007607
Std Dev 1.052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

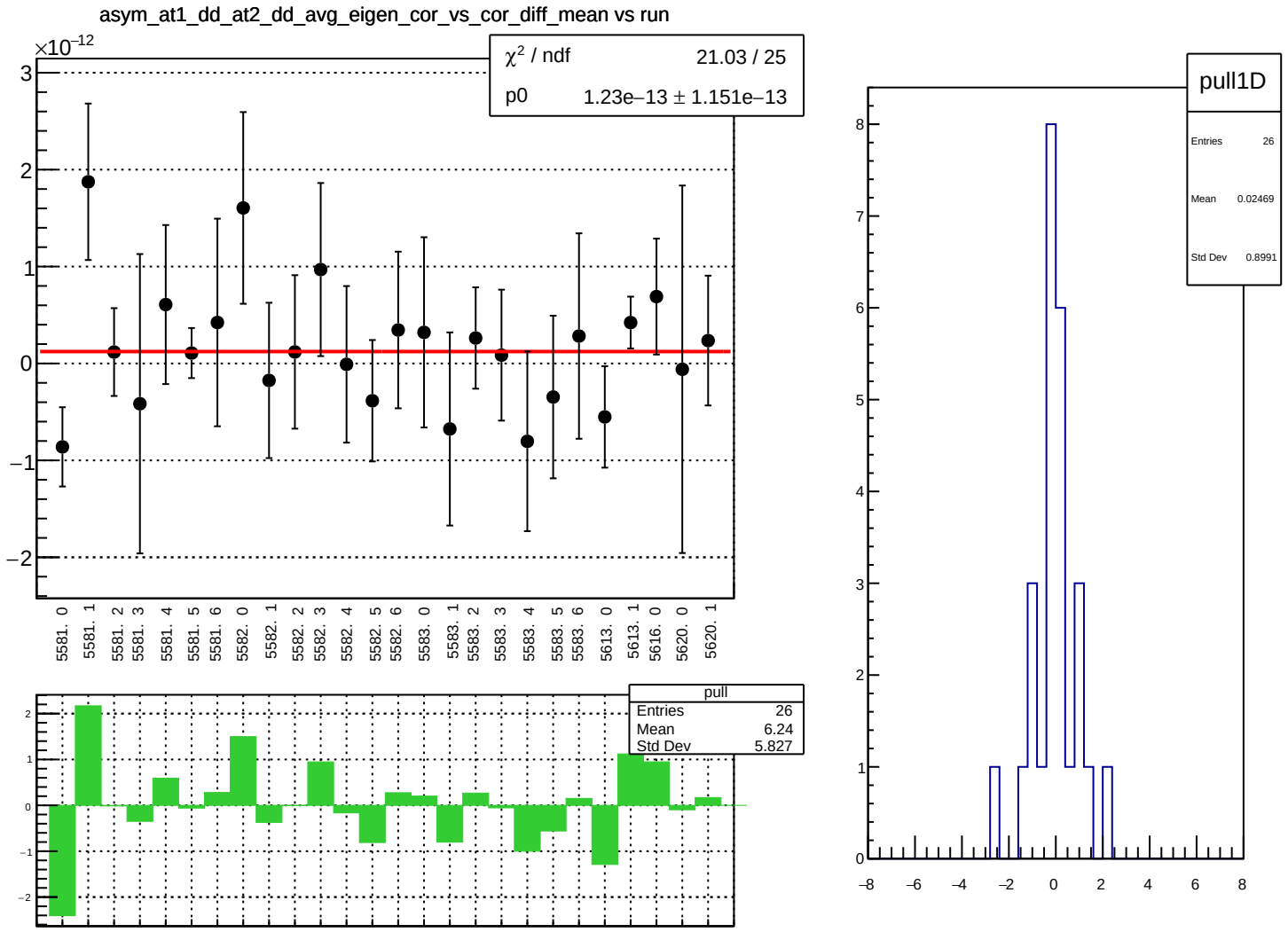

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1662 / 32
p0 0.007384 ± 9.157e−06
0.008
0.0075
0.007
0.0065
0.006
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

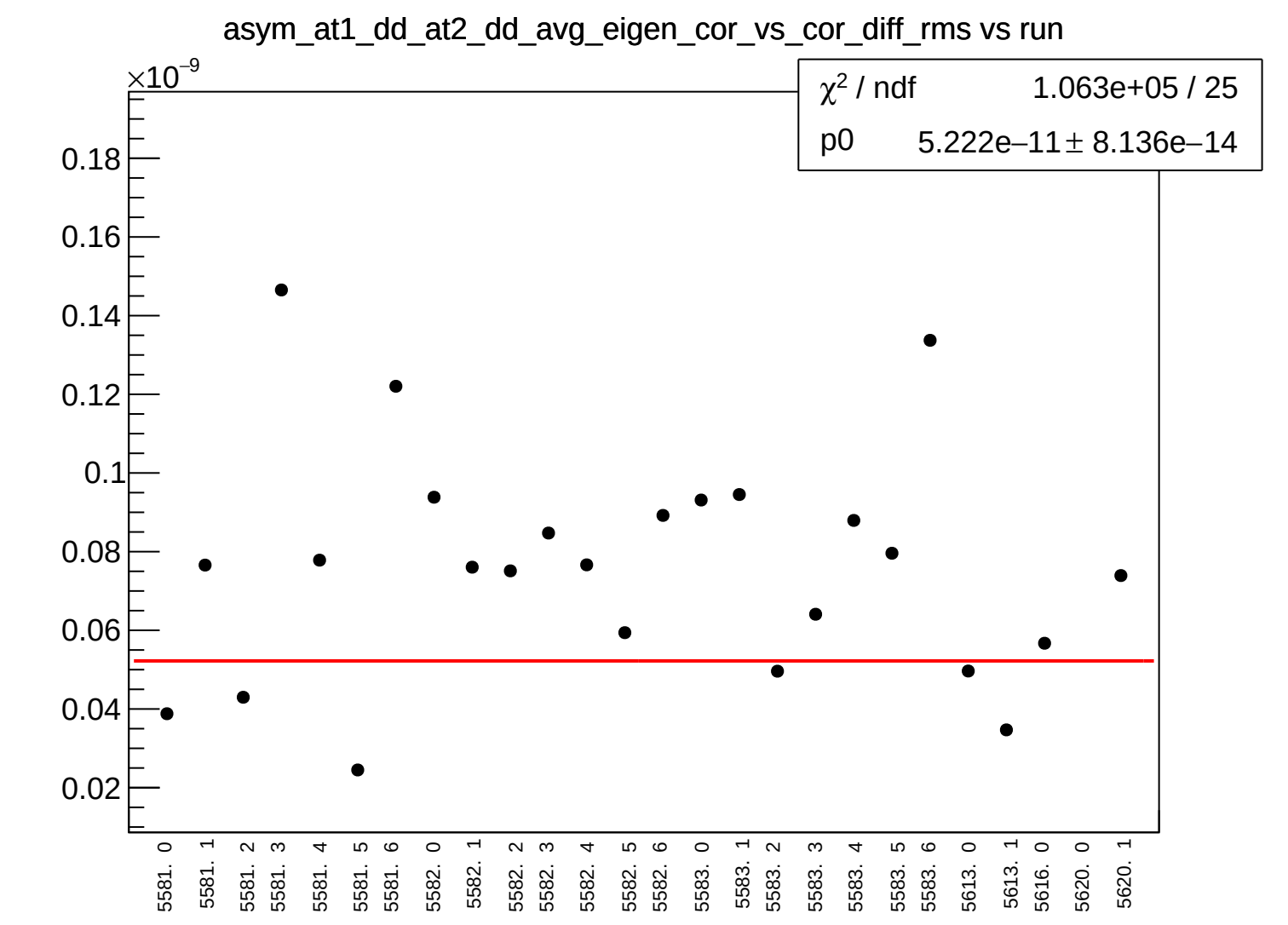

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.68 / 32
p0 −0.09435 ± 0.06981
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −3.039
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.03601
Std Dev 0.9944
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

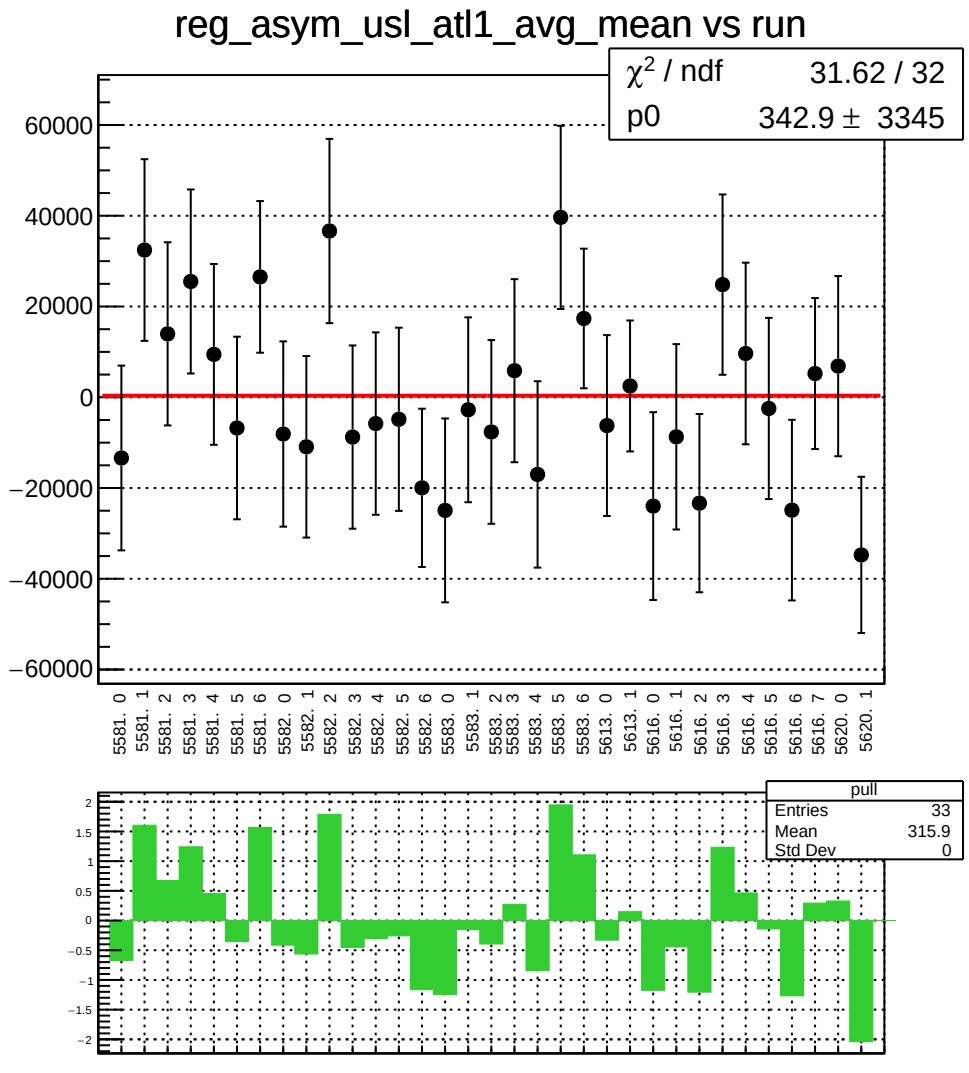

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.828e+05 / 32
p0 29.99 ± 0.04936
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

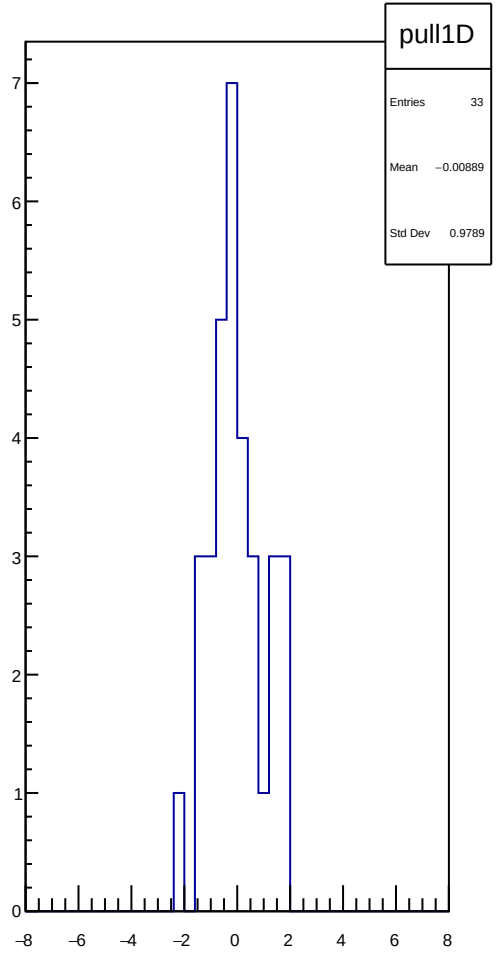

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.68 / 32
p0 −0.09435 ± 0.06981
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −3.039
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.03601
Std Dev 0.9944
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

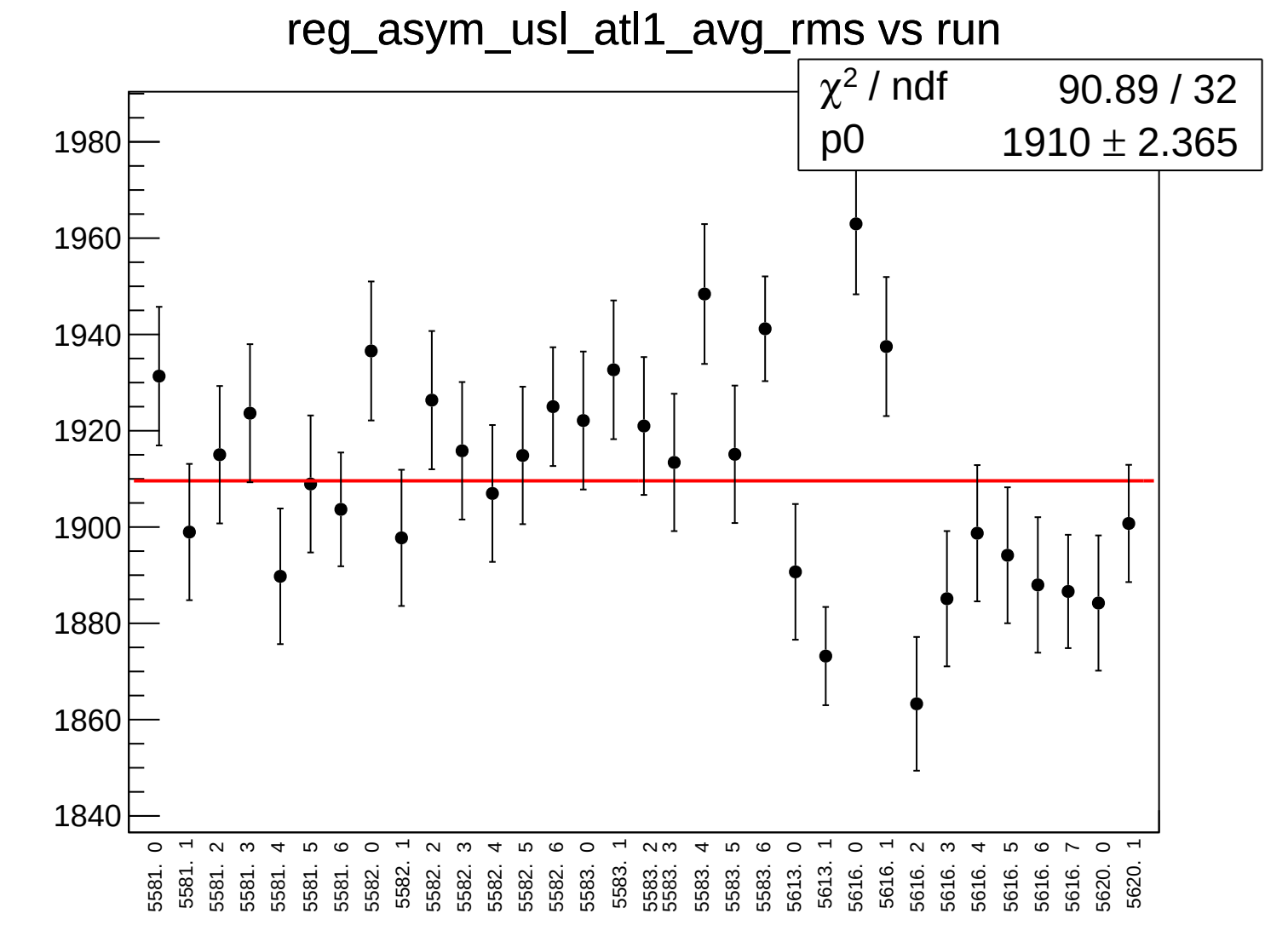

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.828e+05 / 32
p0 29.99 ± 0.04936
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

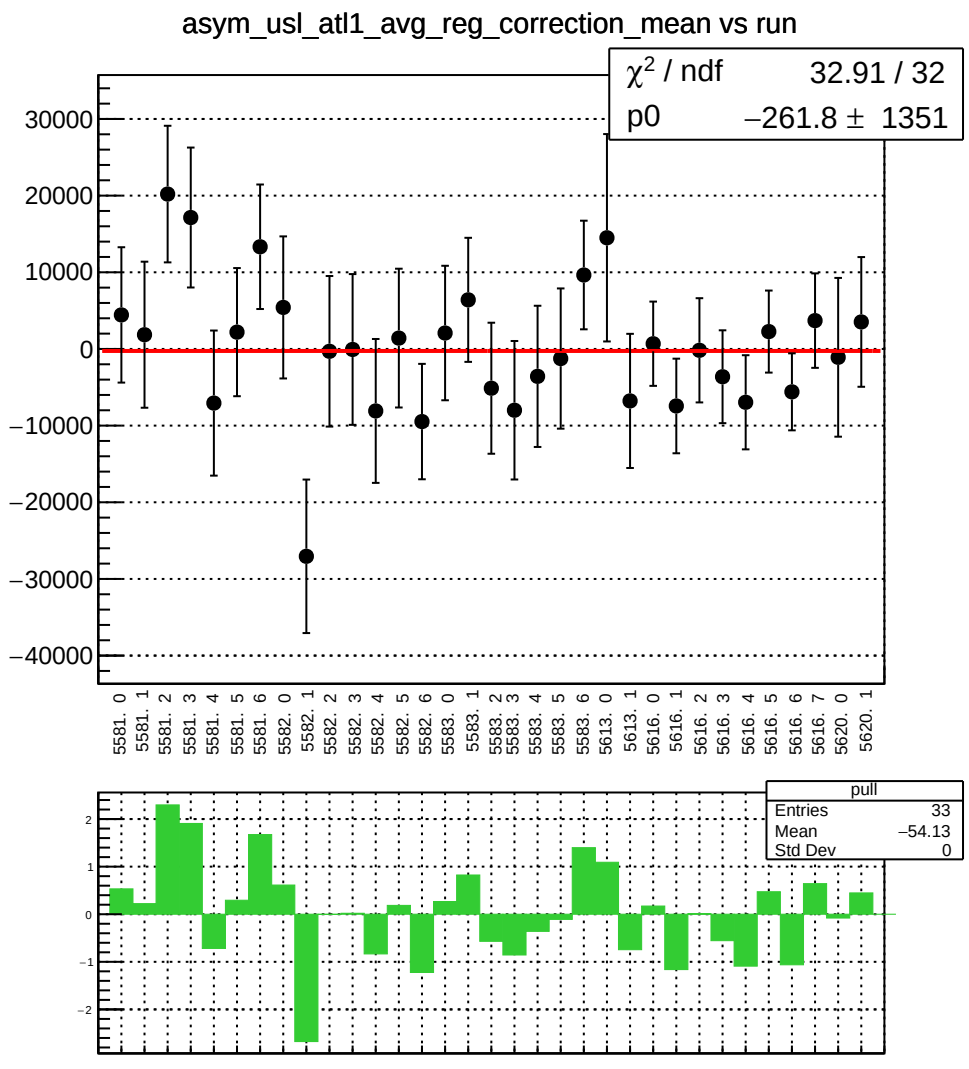

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 21.03 / 25
p0 1.23e−13 ± 1.151e−13
3
2
1
0
−1
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 6.24
Std Dev 5.827
pull1D
Entries 26
Mean 0.02469
Std Dev 0.8991
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

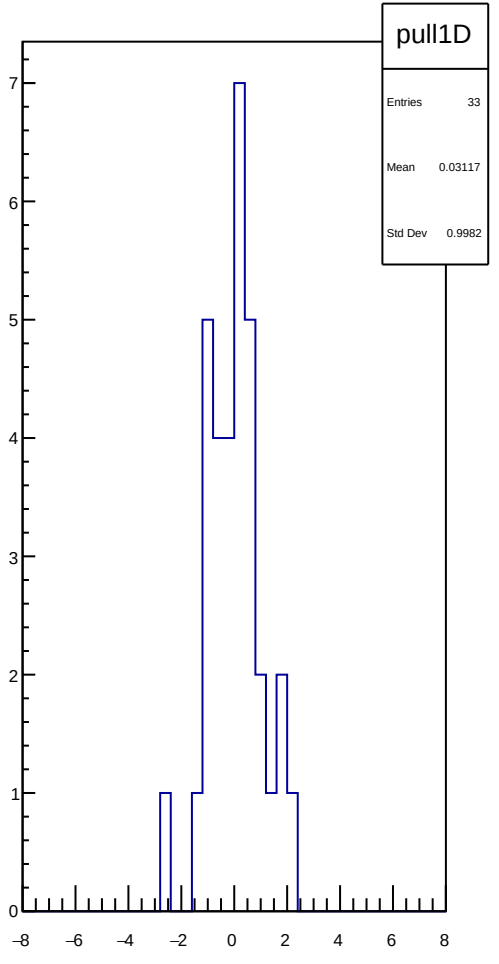

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.063e+05 / 25
p0 5.222e−11 ± 8.136e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

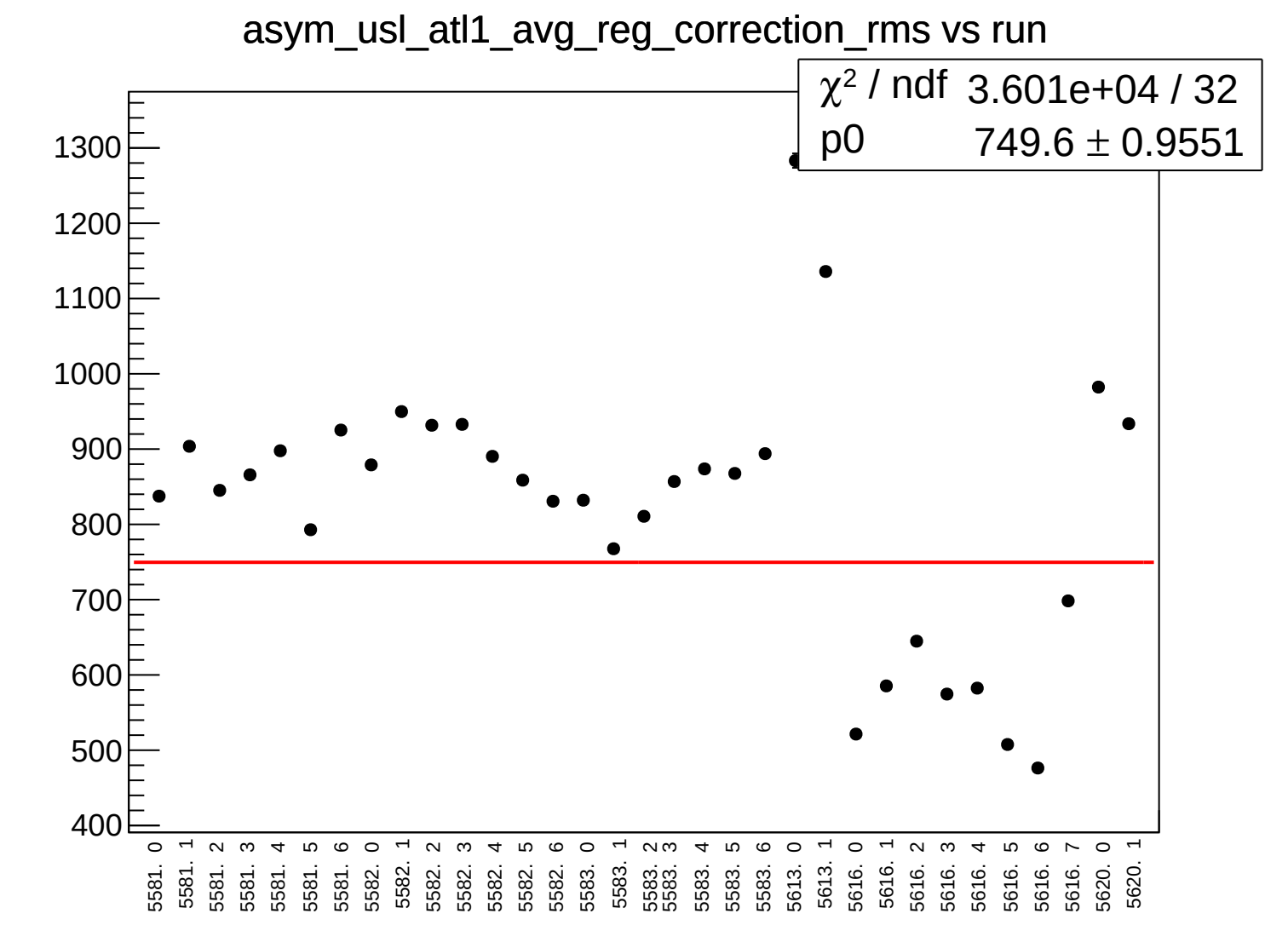

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 31.62 / 32
p0 342.9 ± 3345
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 315.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

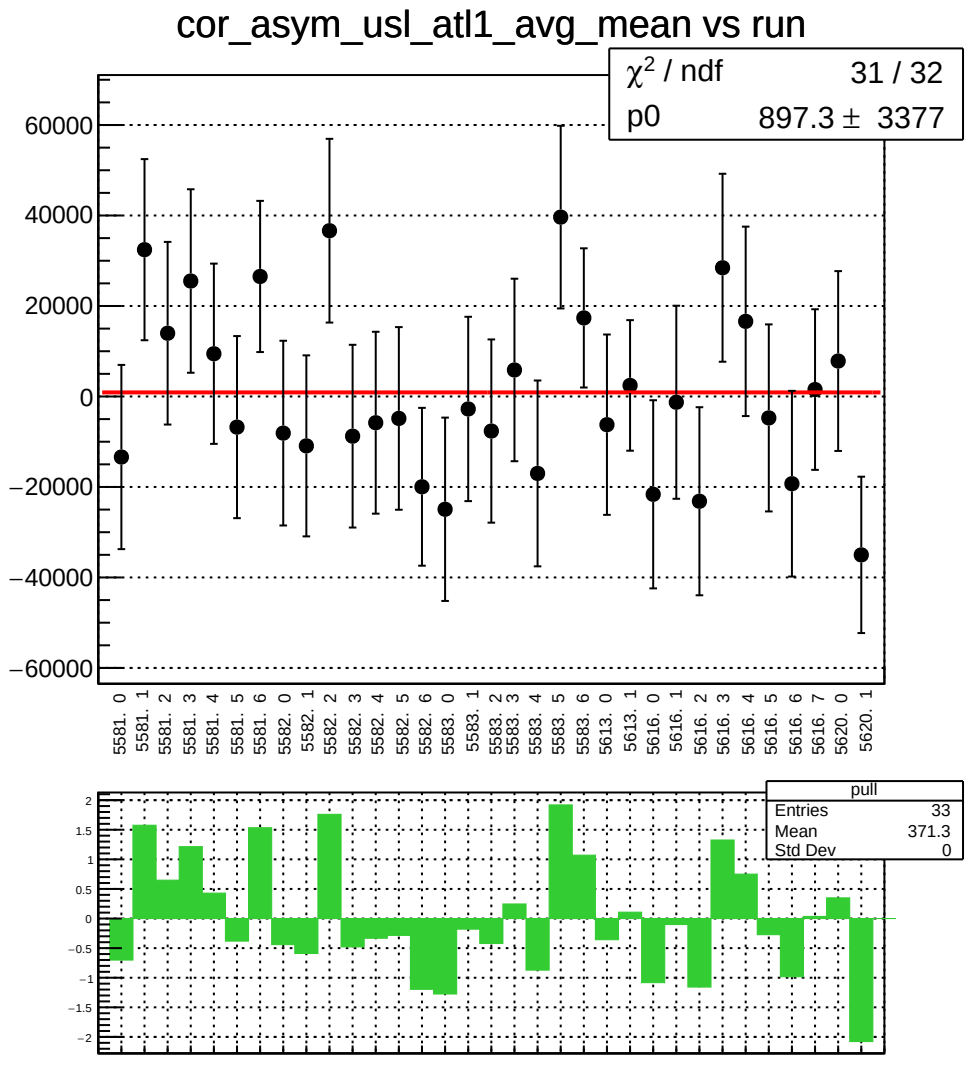

pull1D
Entries 33
Mean −0.00889
Std Dev 0.9789
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

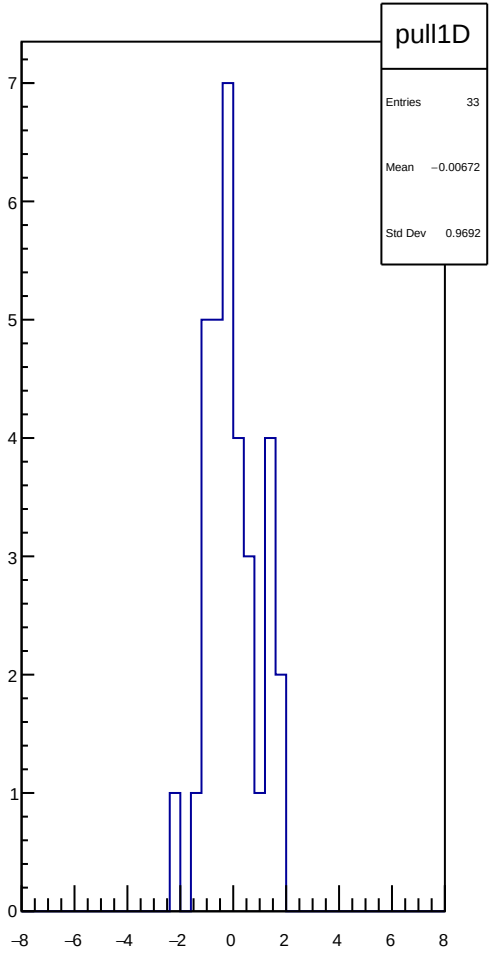

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 90.89 / 32
p0 1910 ± 2.365
1980
1960
1940
1920
1900
1880
1860
1840
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

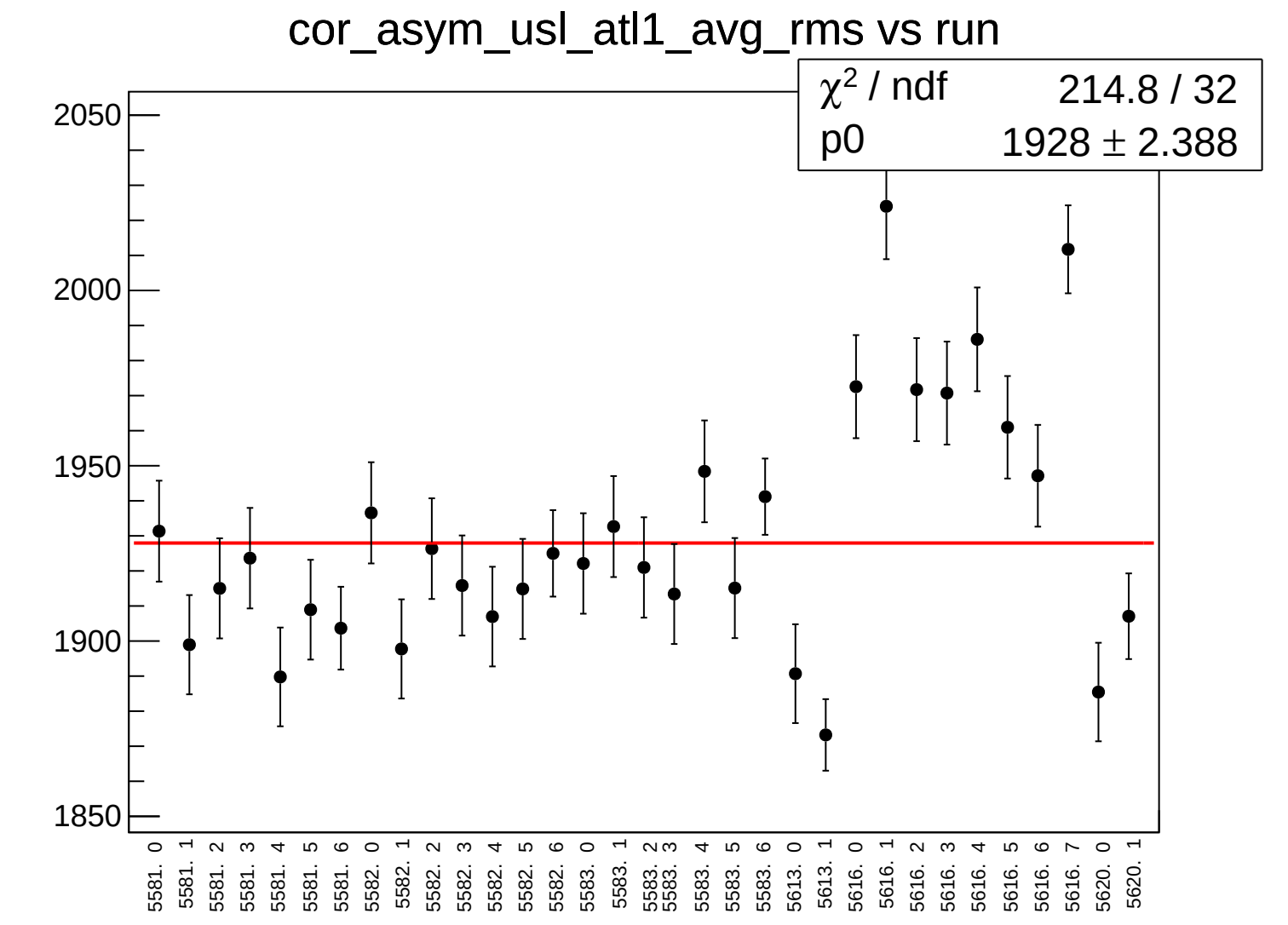

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 32.91 / 32
p0 −261.8 ± 1351
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −54.13
Std Dev 0
2
1
0
−1
−2

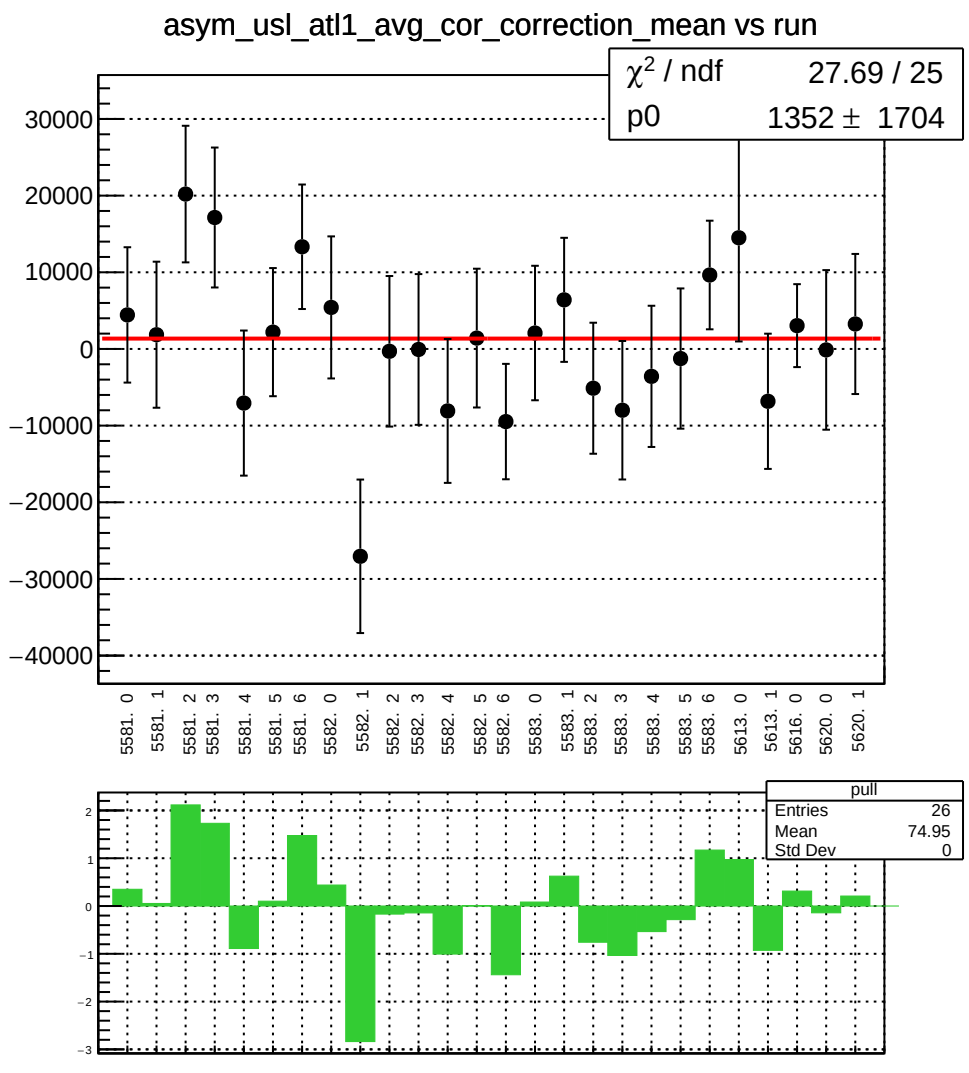

pull1D
Entries 33
Mean 0.03117
Std Dev 0.9982
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

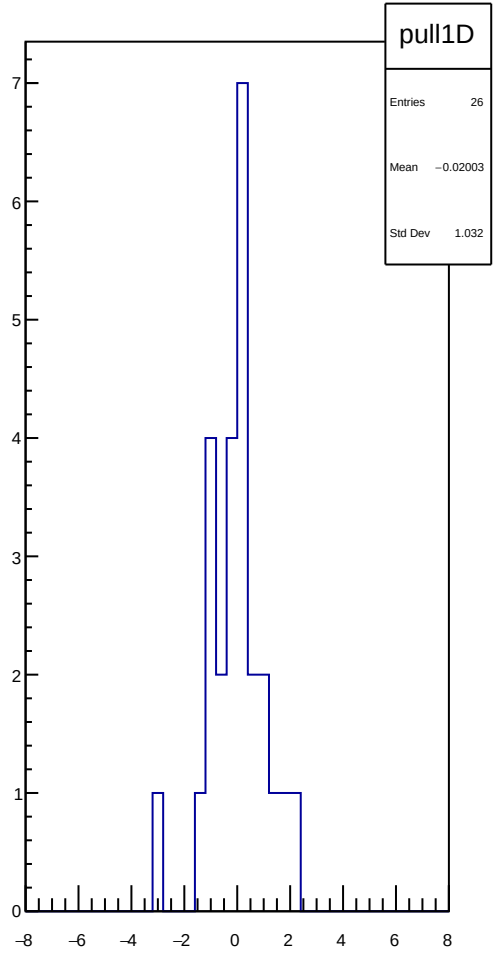

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 3.601e+04 / 32
p0 749.6 ± 0.9551
1300
1200
1100
1000
900
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

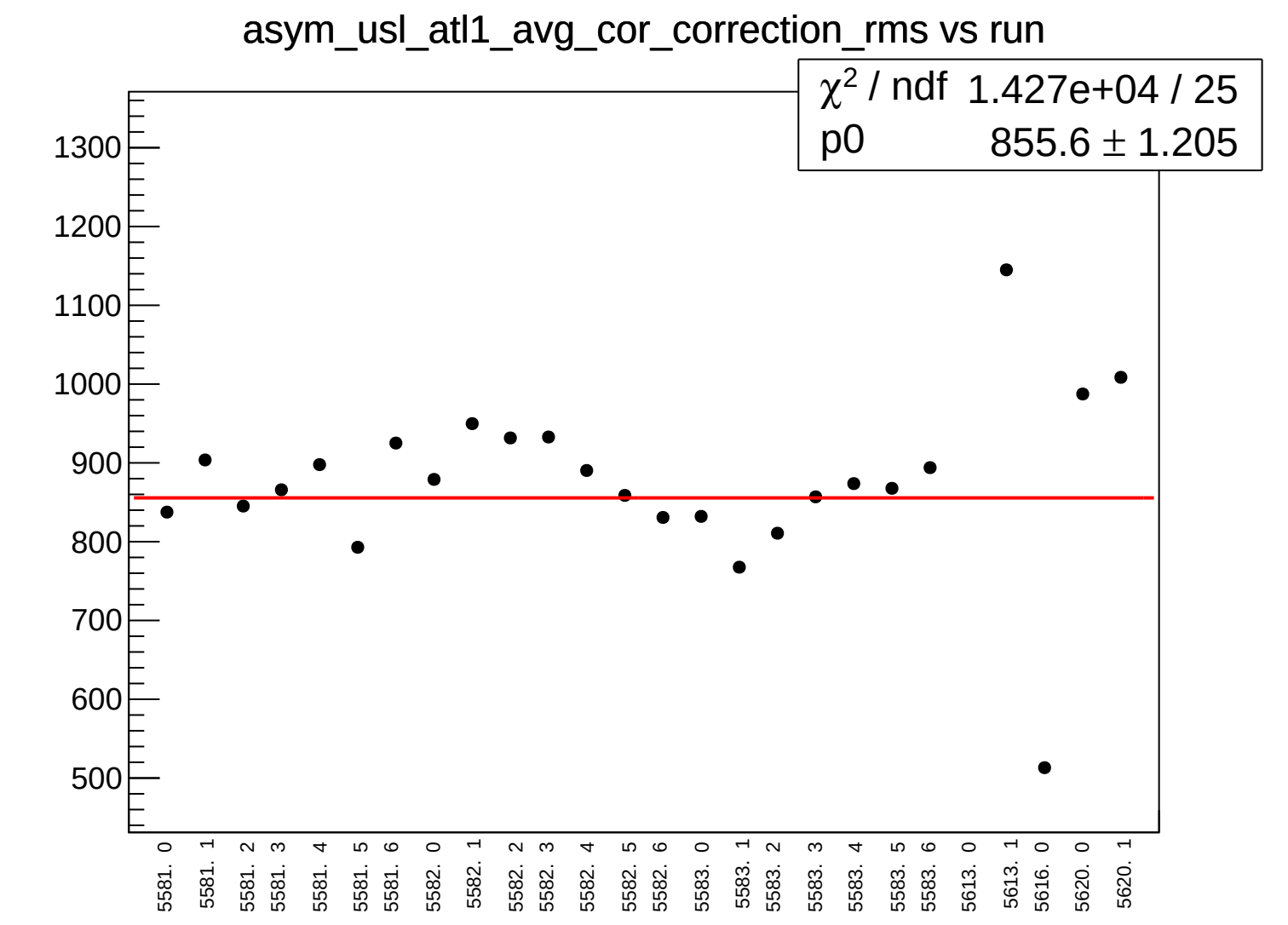

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 31 / 32
p0 897.3 ± 3377
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 371.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

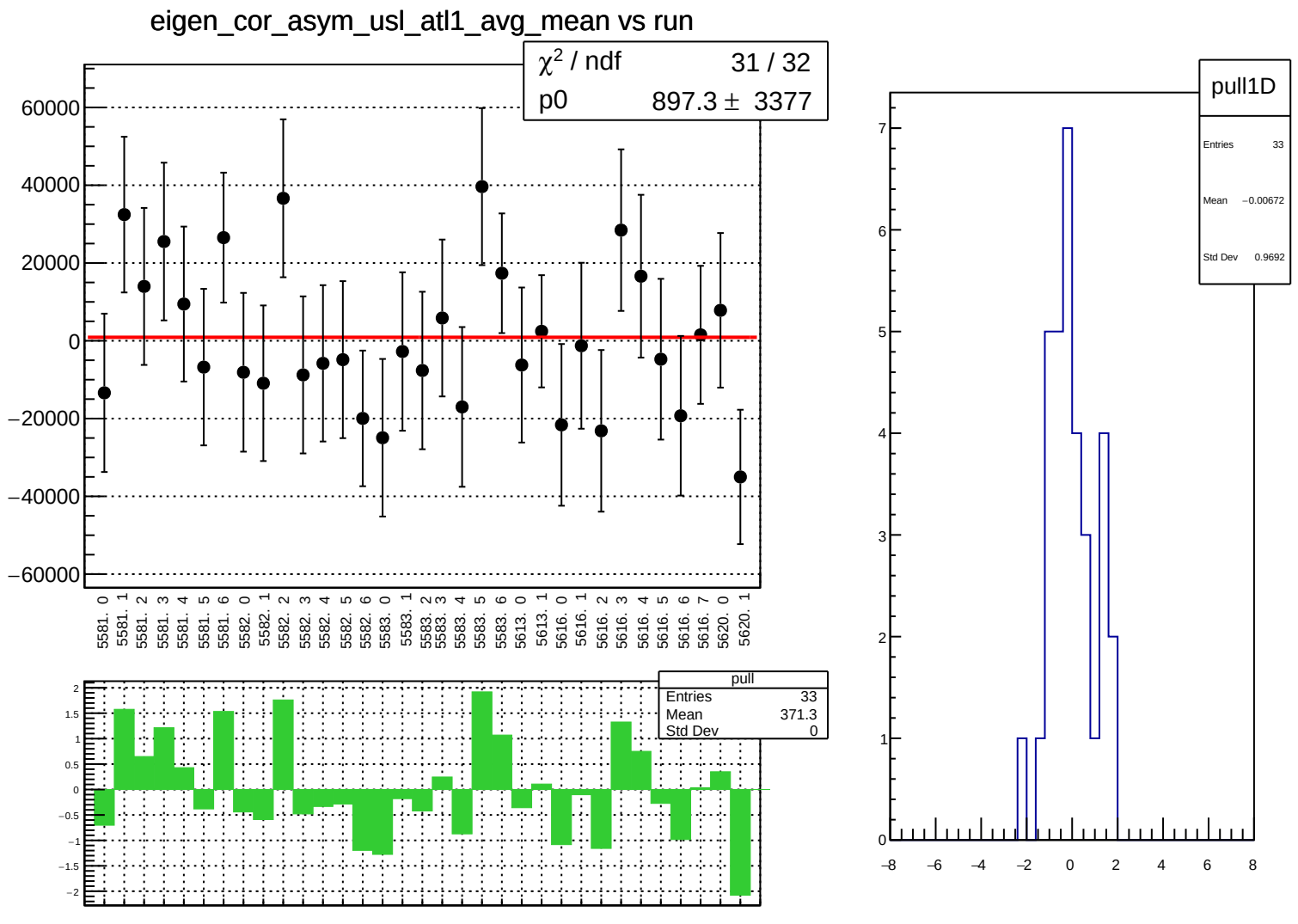

pull1D
Entries 33
Mean −0.00672
Std Dev 0.9692
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

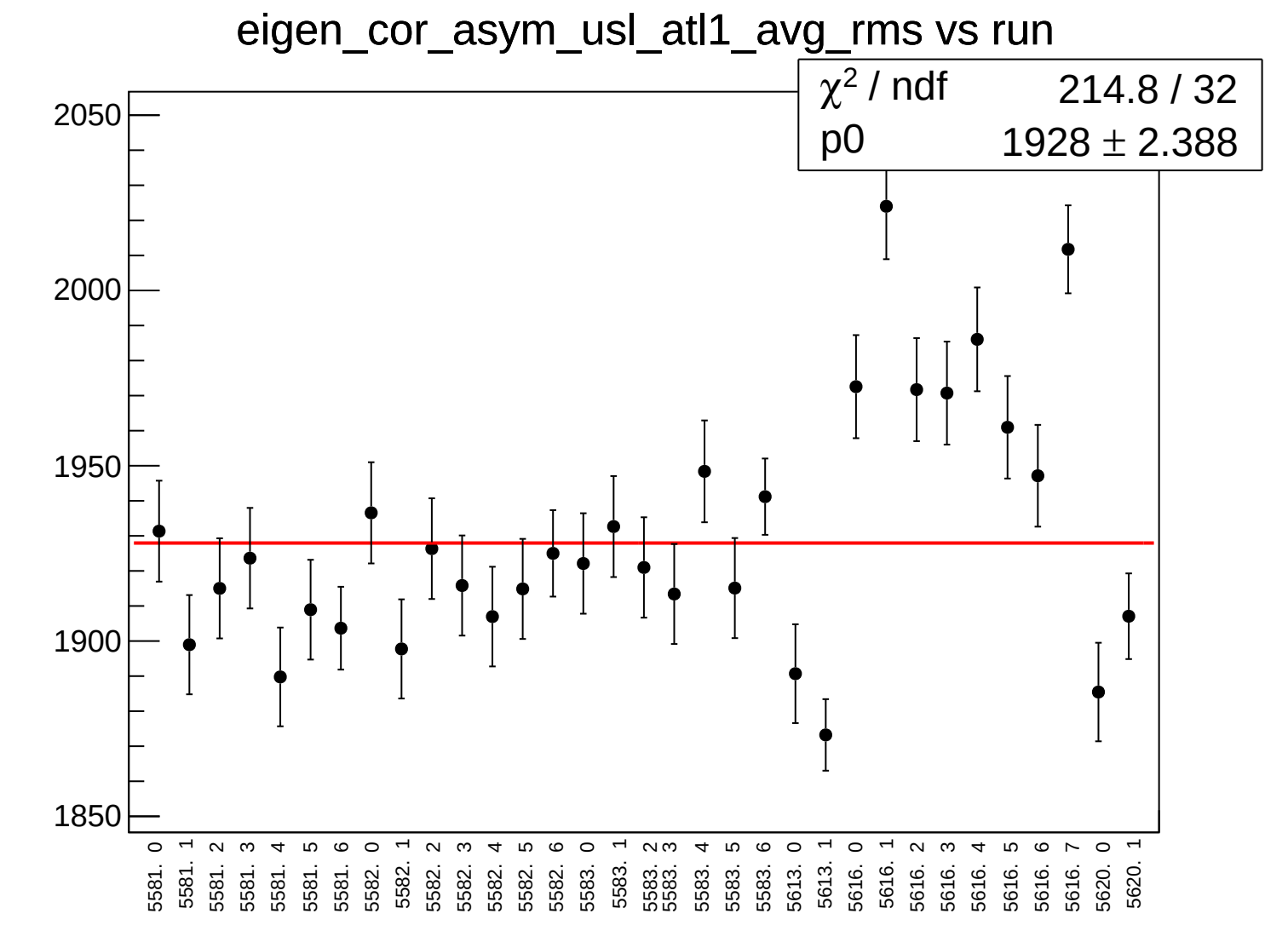

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 214.8 / 32
p0 1928 ± 2.388
2050
2000
1950
1900
1850
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

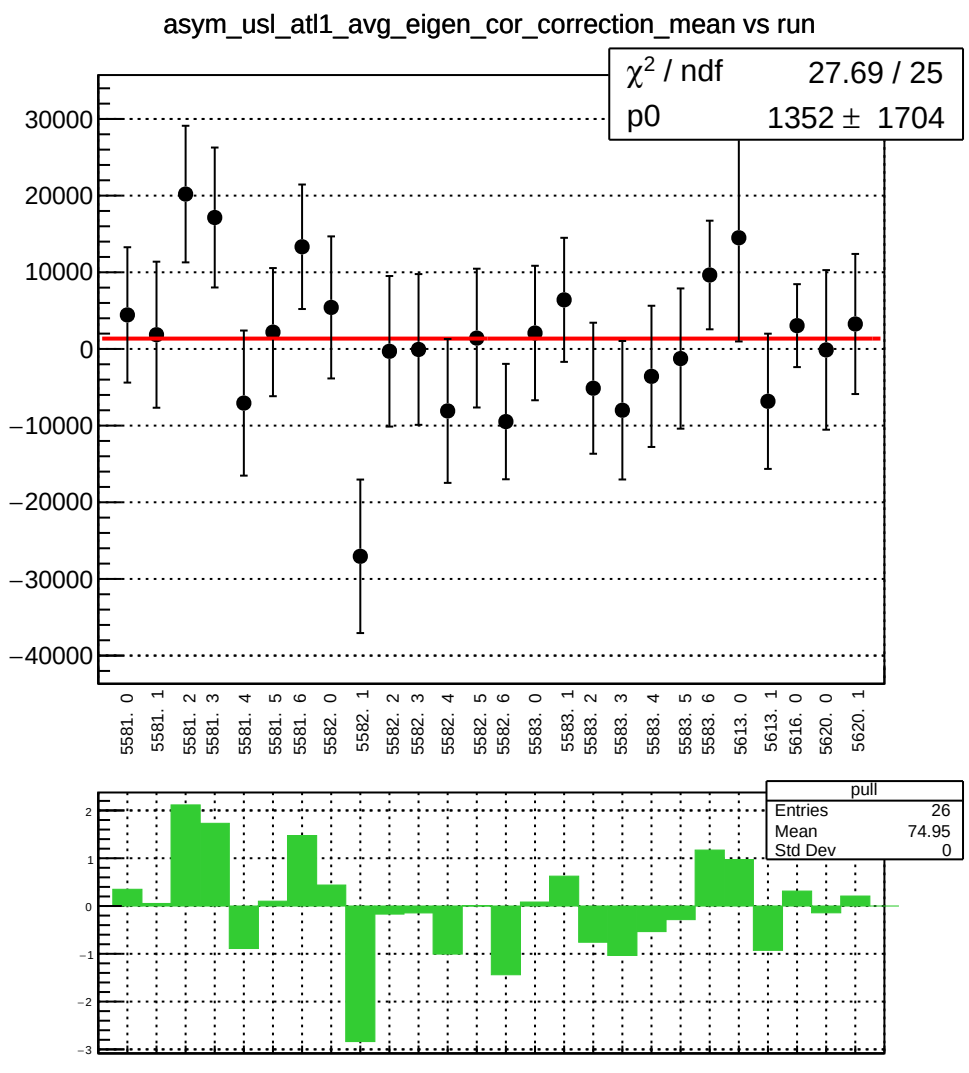

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 27.69 / 25
p0 1352 ± 1704
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 74.95
Std Dev 0
2
1
0
−1
−2
−3

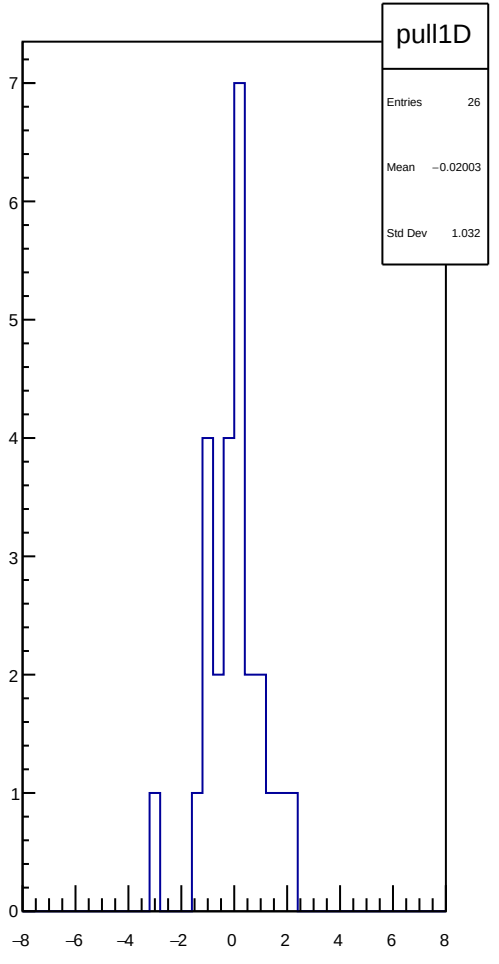

pull1D
Entries 26
Mean −0.02003
Std Dev 1.032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

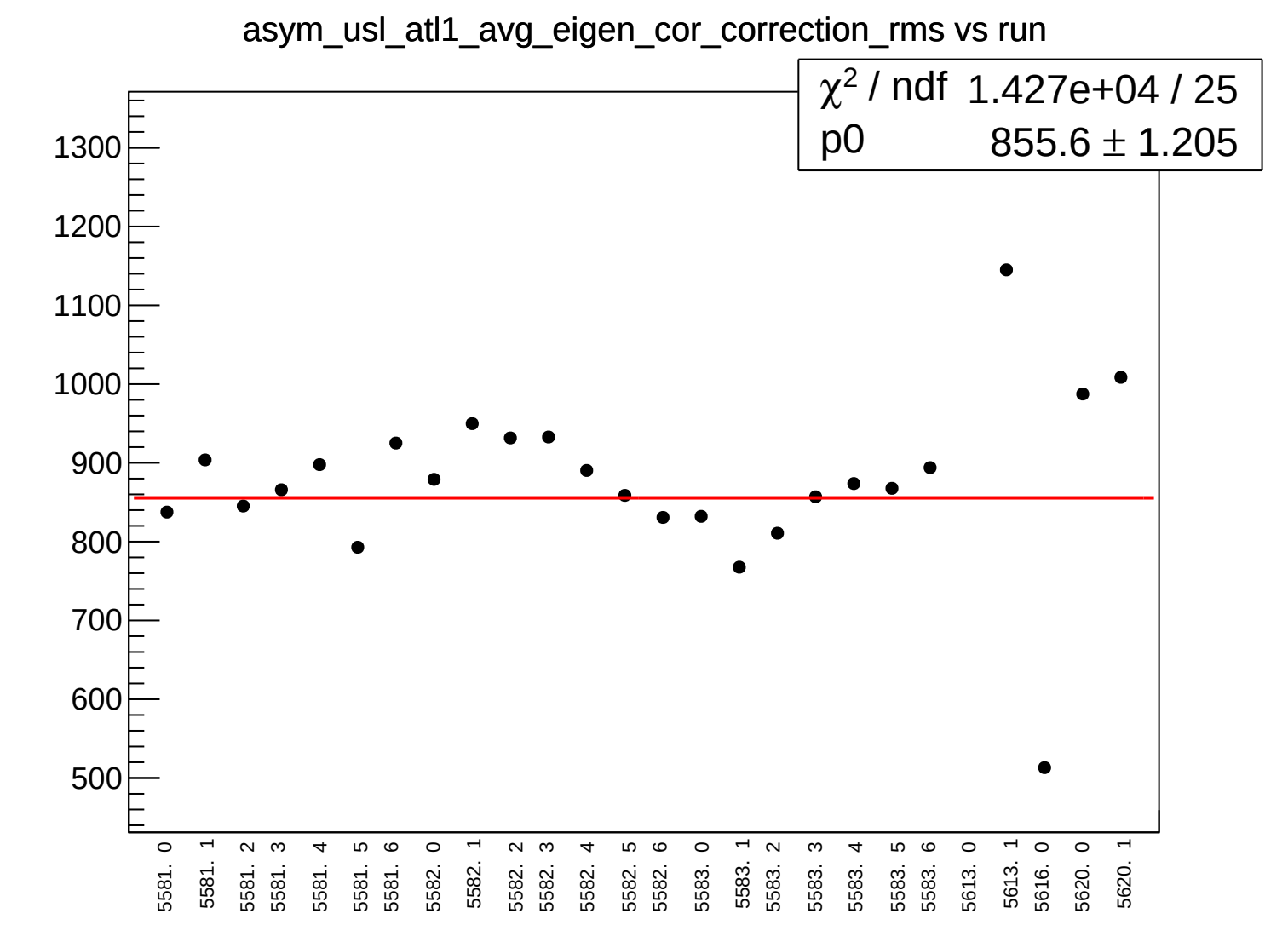

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.427e+04 / 25
p0 855.6 ± 1.205
1300
1200
1100
1000
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

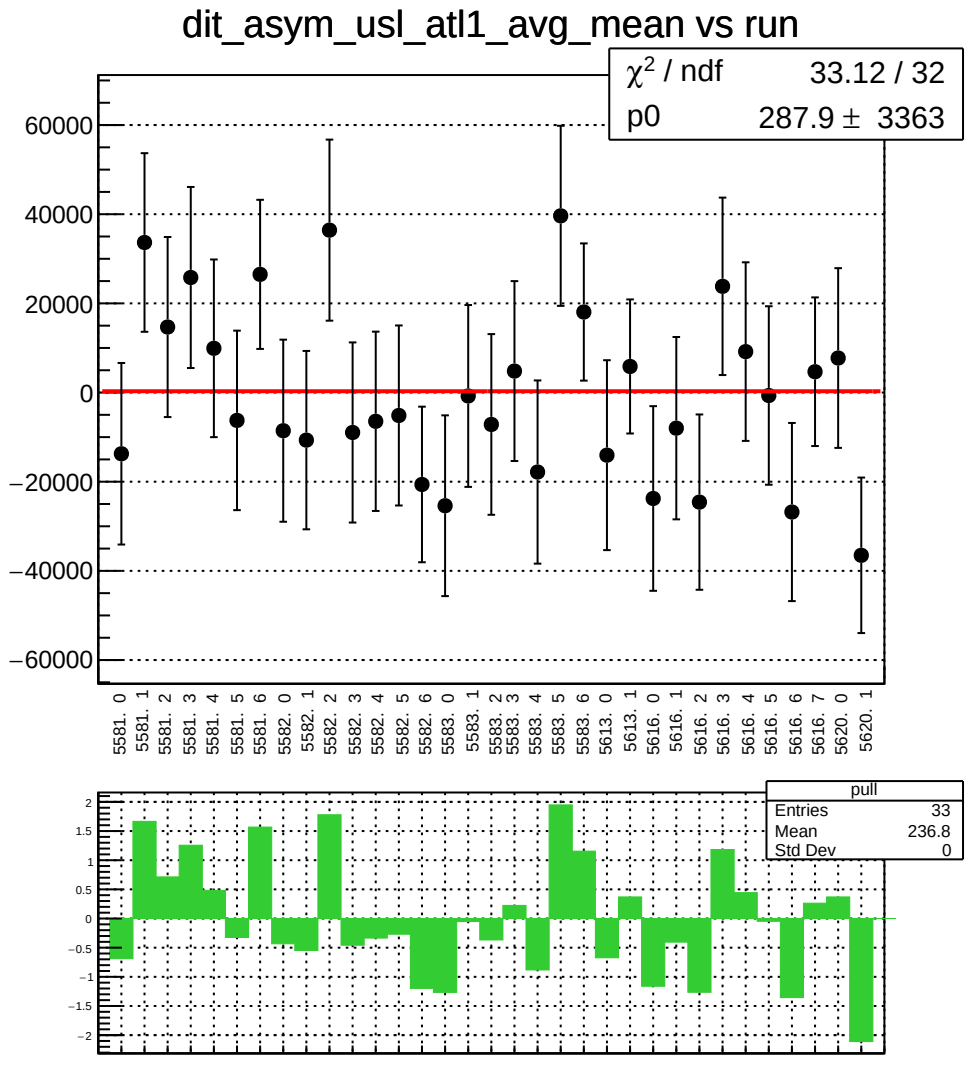

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 31 / 32
p0 897.3 ± 3377
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 371.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.00672
Std Dev 0.9692
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

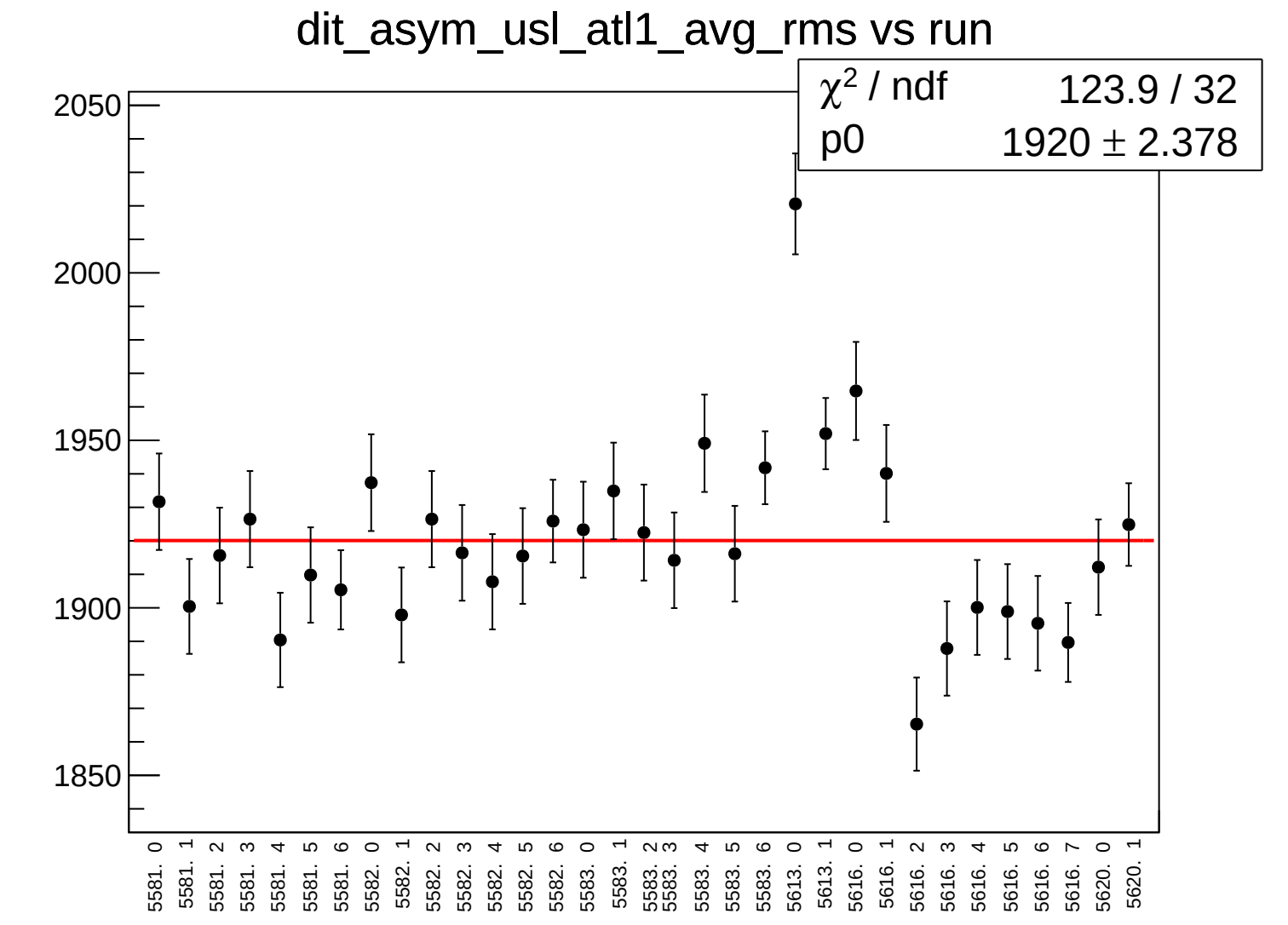

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 214.8 / 32
p0 1928 ± 2.388
2050
2000
1950
1900
1850
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

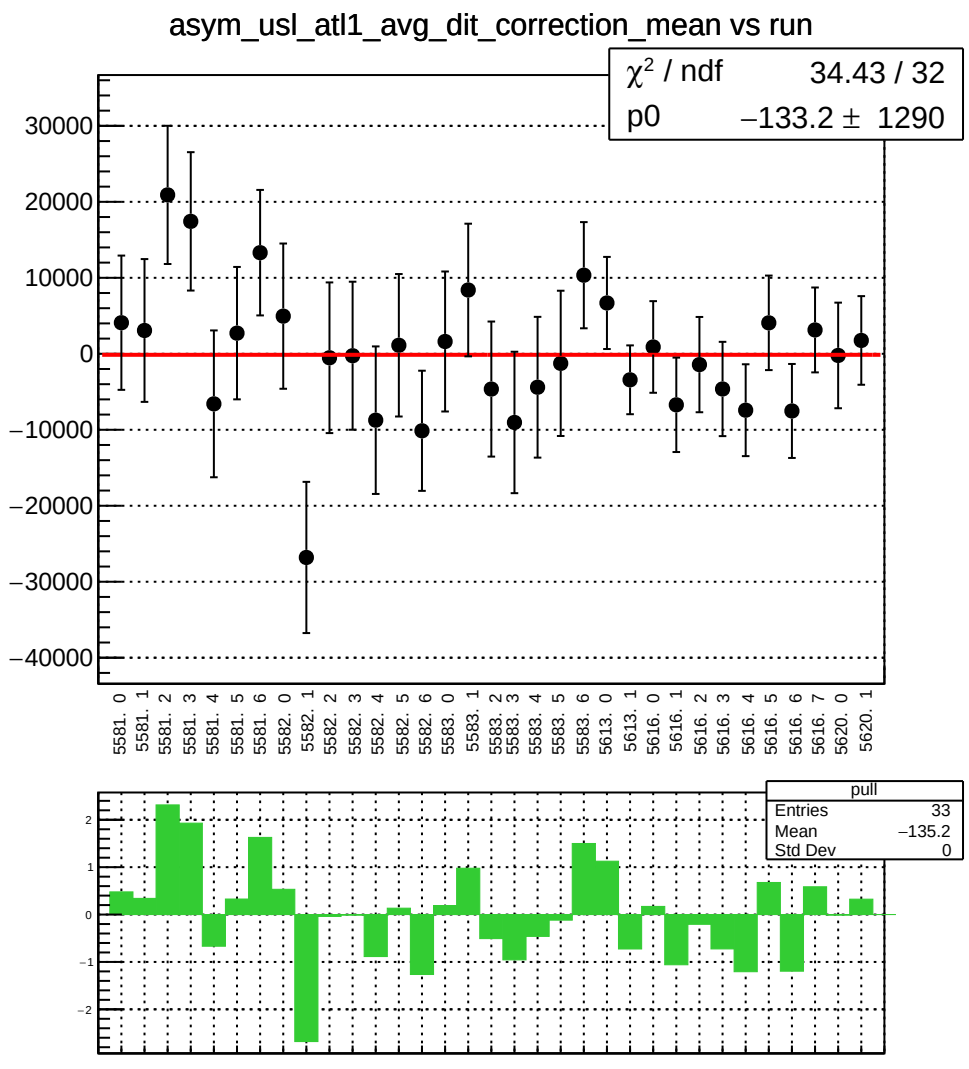

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 27.69 / 25
p0 1352 ± 1704
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 74.95
Std Dev 0
2
1
0
−1
−2
−3

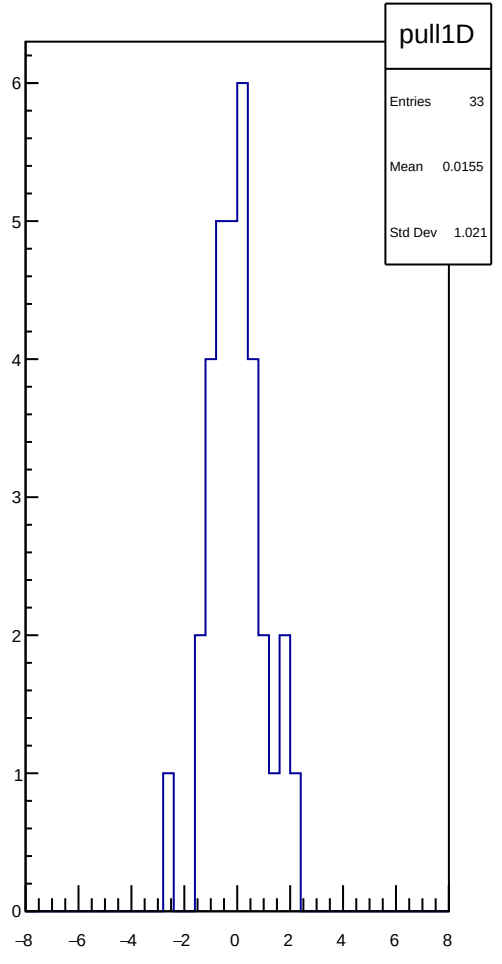

pull1D
Entries 26
Mean −0.02003
Std Dev 1.032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

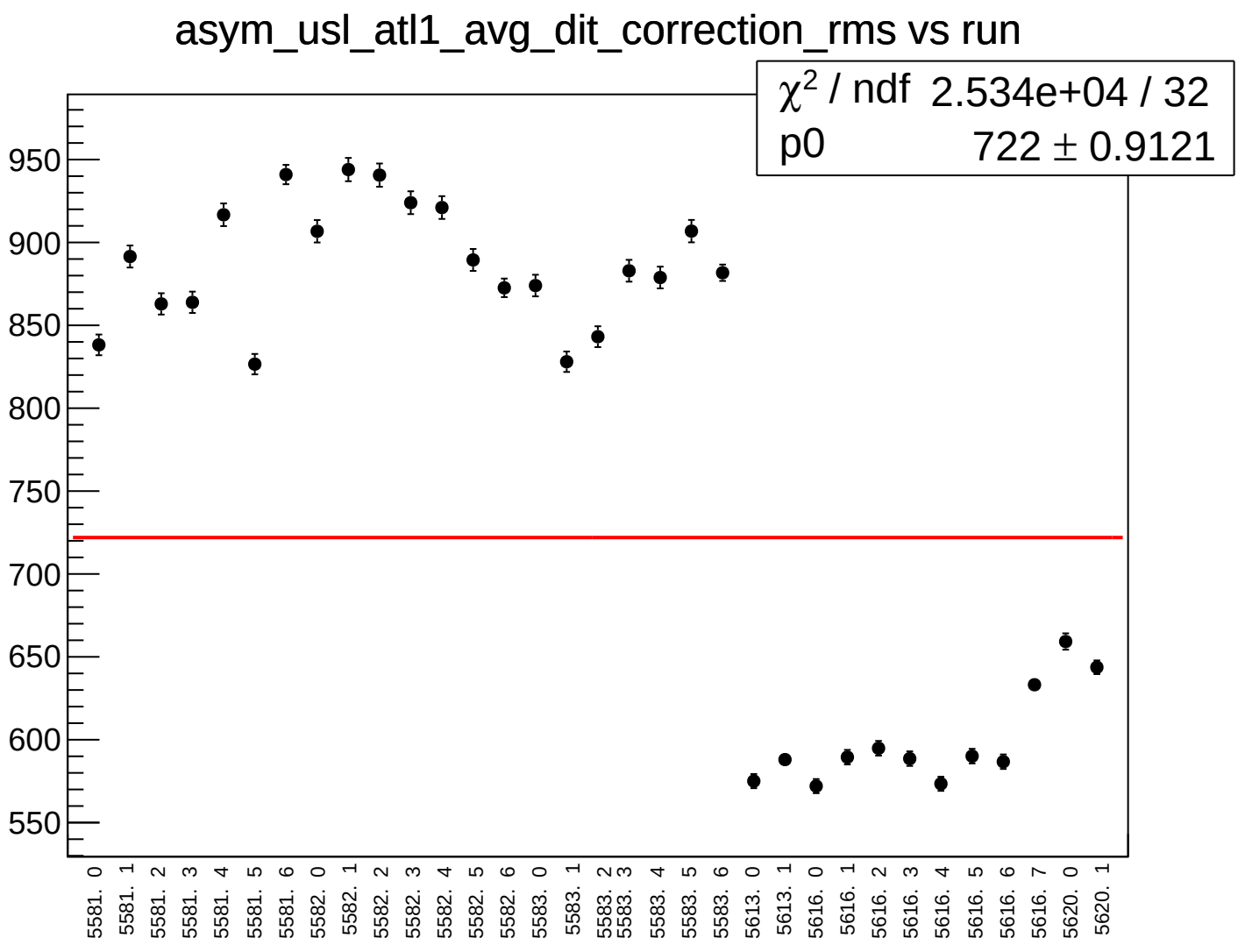

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.427e+04 / 25
p0 855.6 ± 1.205
1300
1200
1100
1000
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

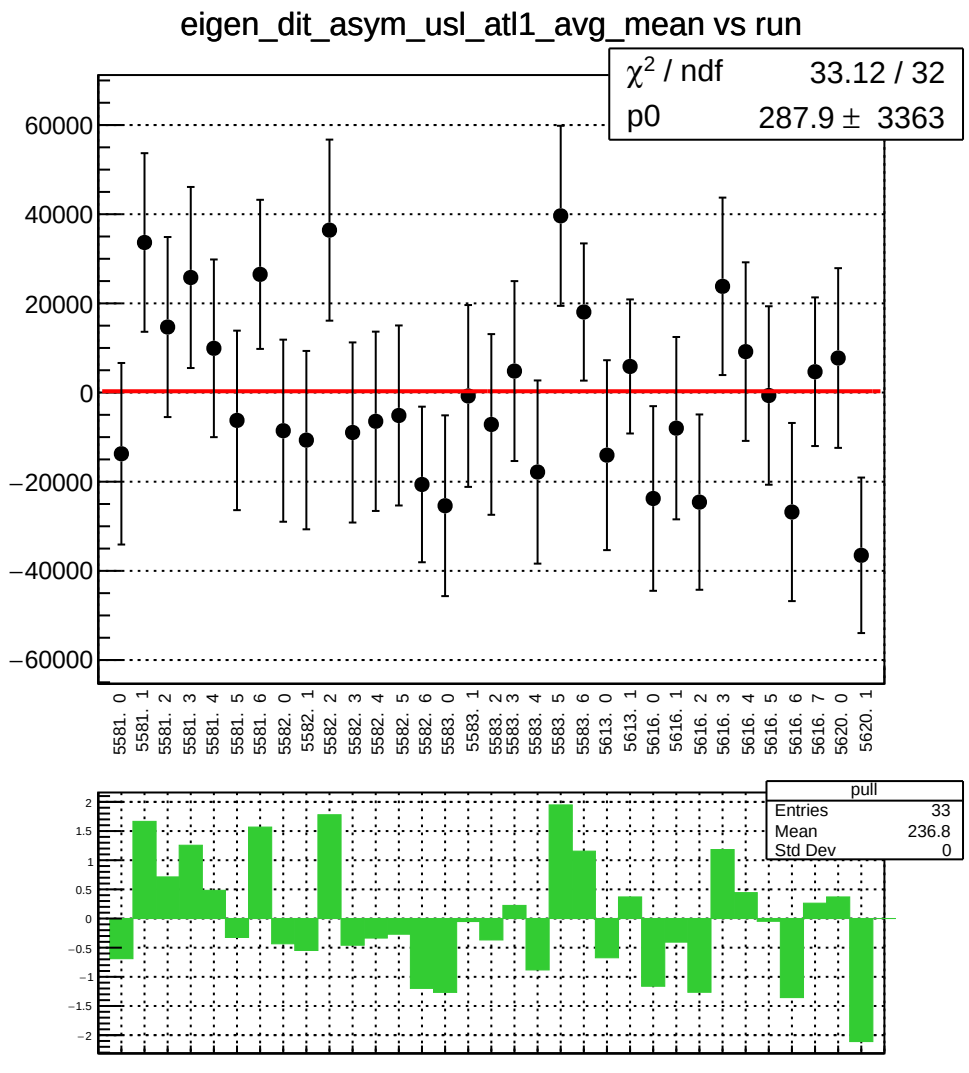

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 33.12 / 32
p0 287.9 ± 3363
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 236.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01261
Std Dev 1.002
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

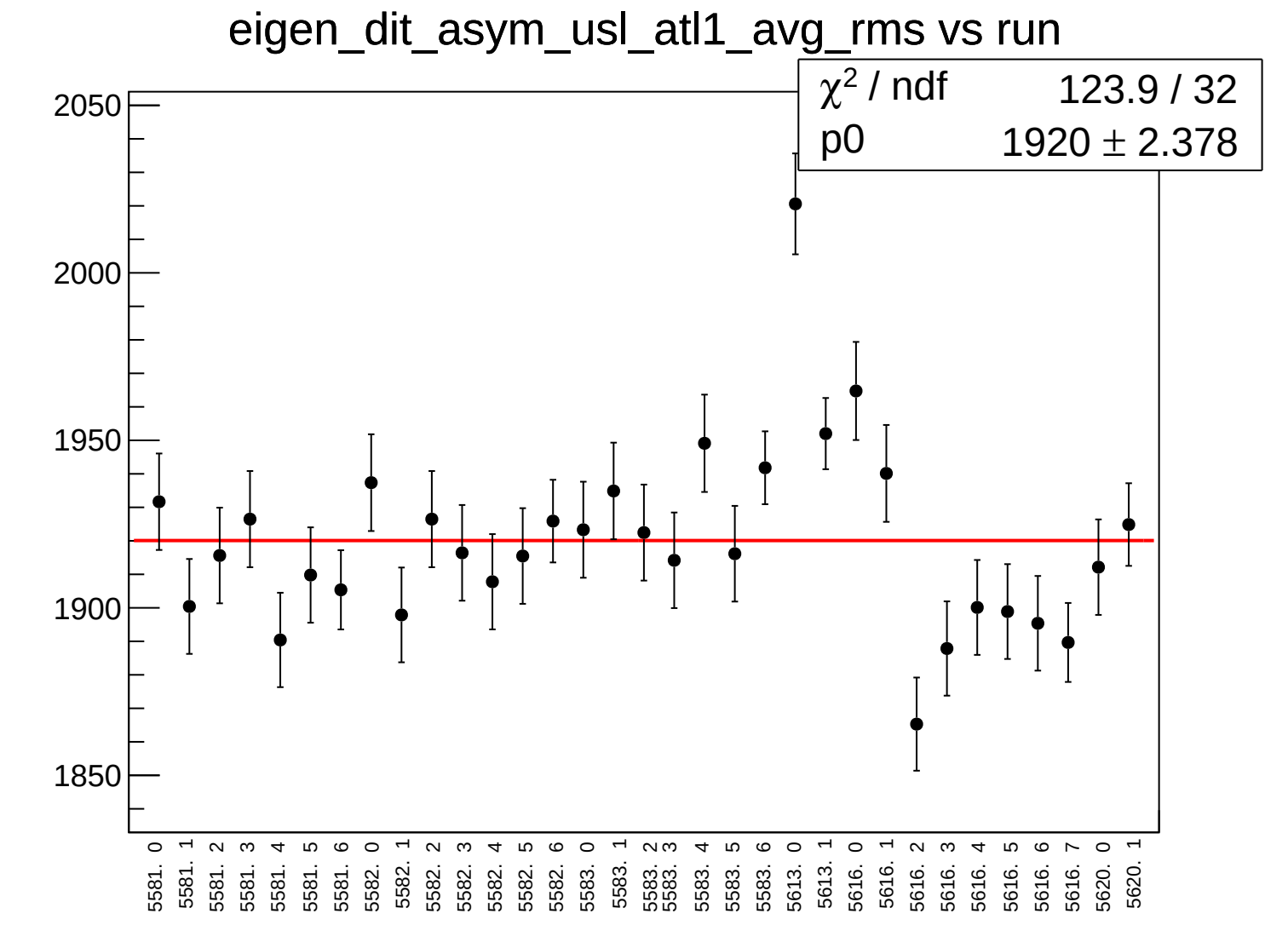

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 123.9 / 32
p0 1920 ± 2.378
2050
2000
1950
1900
1850
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

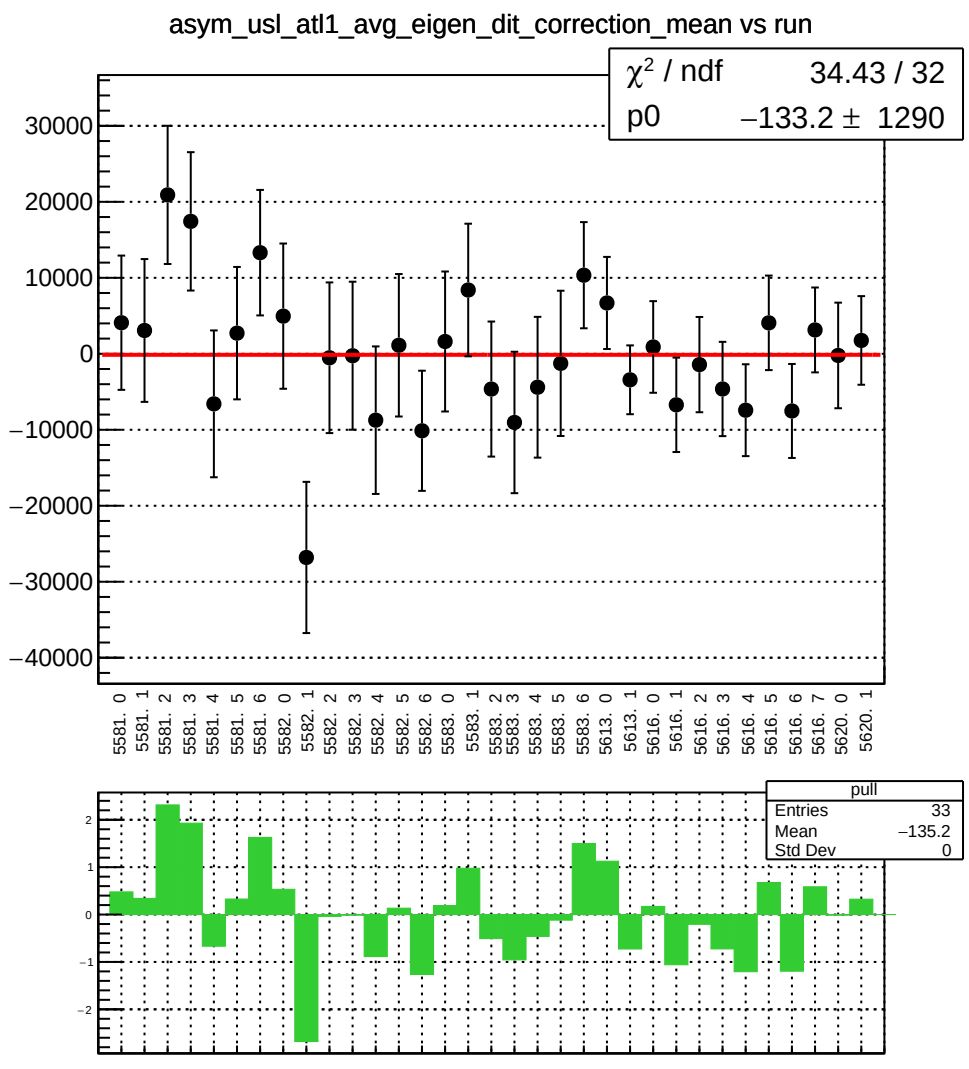

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 34.43 / 32
p0 −133.2 ± 1290
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −135.2
Std Dev 0
2
1
0
−1
−2

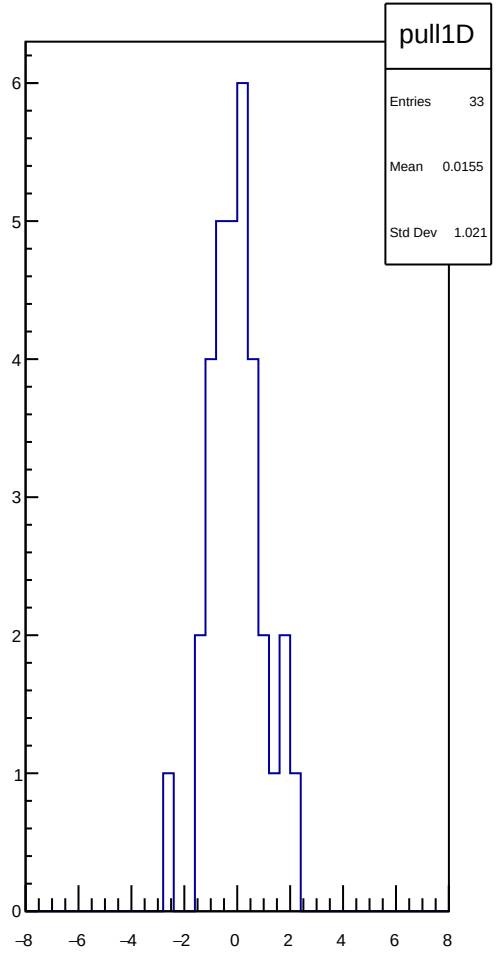

pull1D
Entries 33
Mean 0.0155
Std Dev 1.021
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

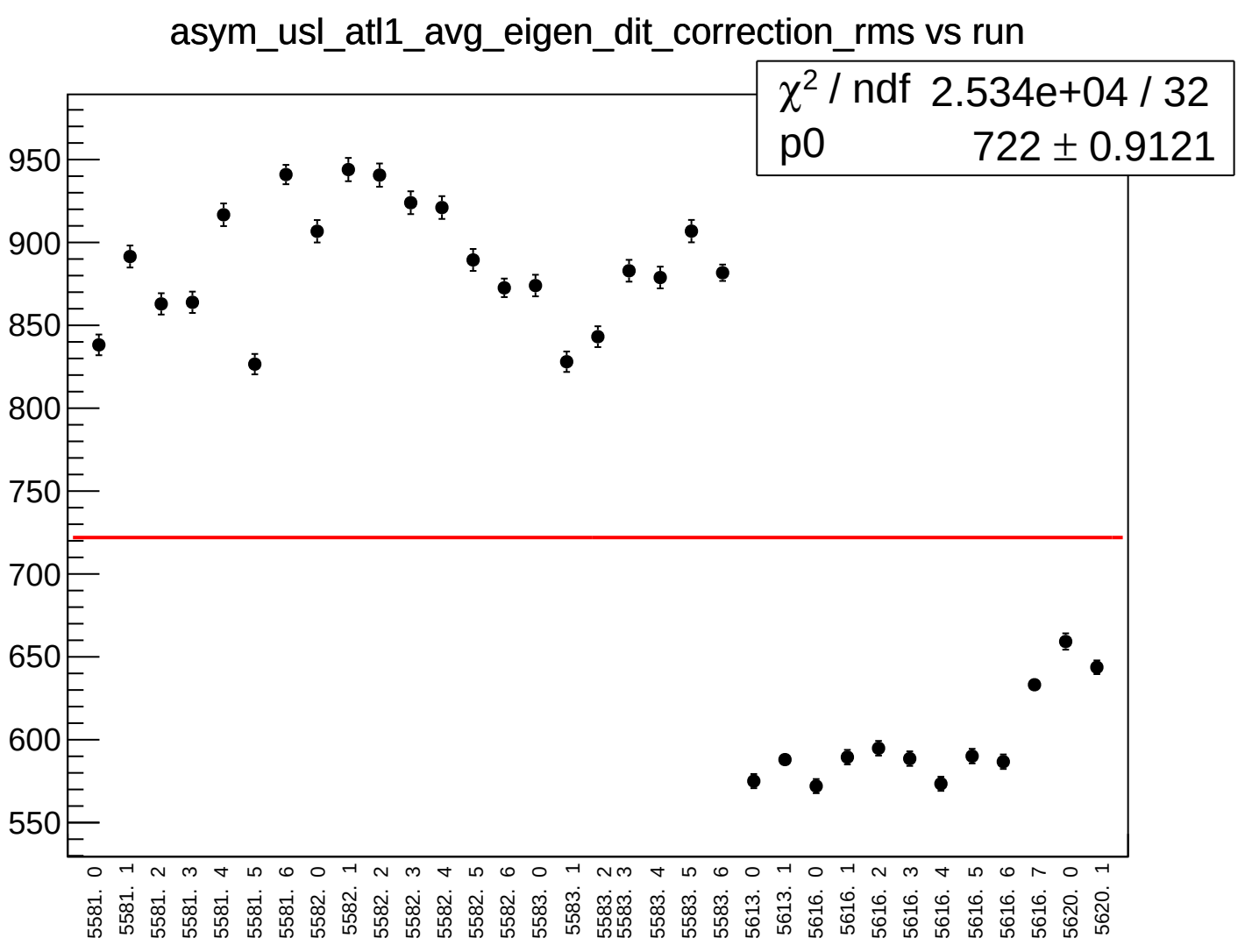

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 2.534e+04 / 32
p0 722 ± 0.9121
950
900
850
800
750
700
650
600
550
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

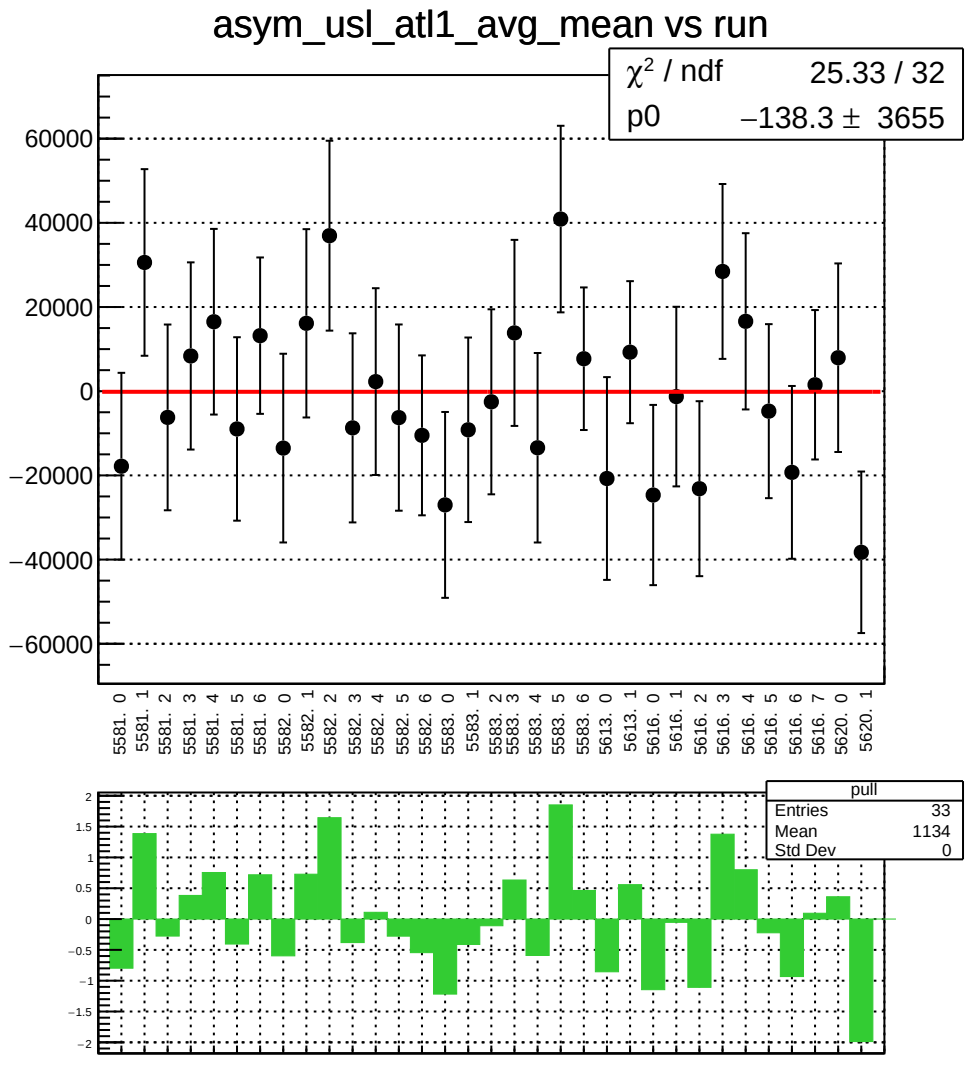

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 33.12 / 32
p0 287.9 ± 3363
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 236.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01261
Std Dev 1.002
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

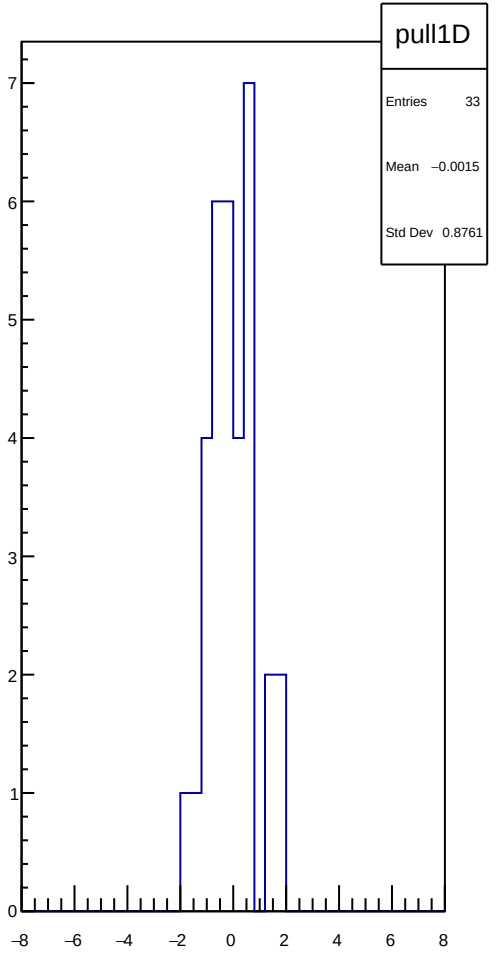

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 123.9 / 32
p0 1920 ± 2.378
2050
2000
1950
1900
1850
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

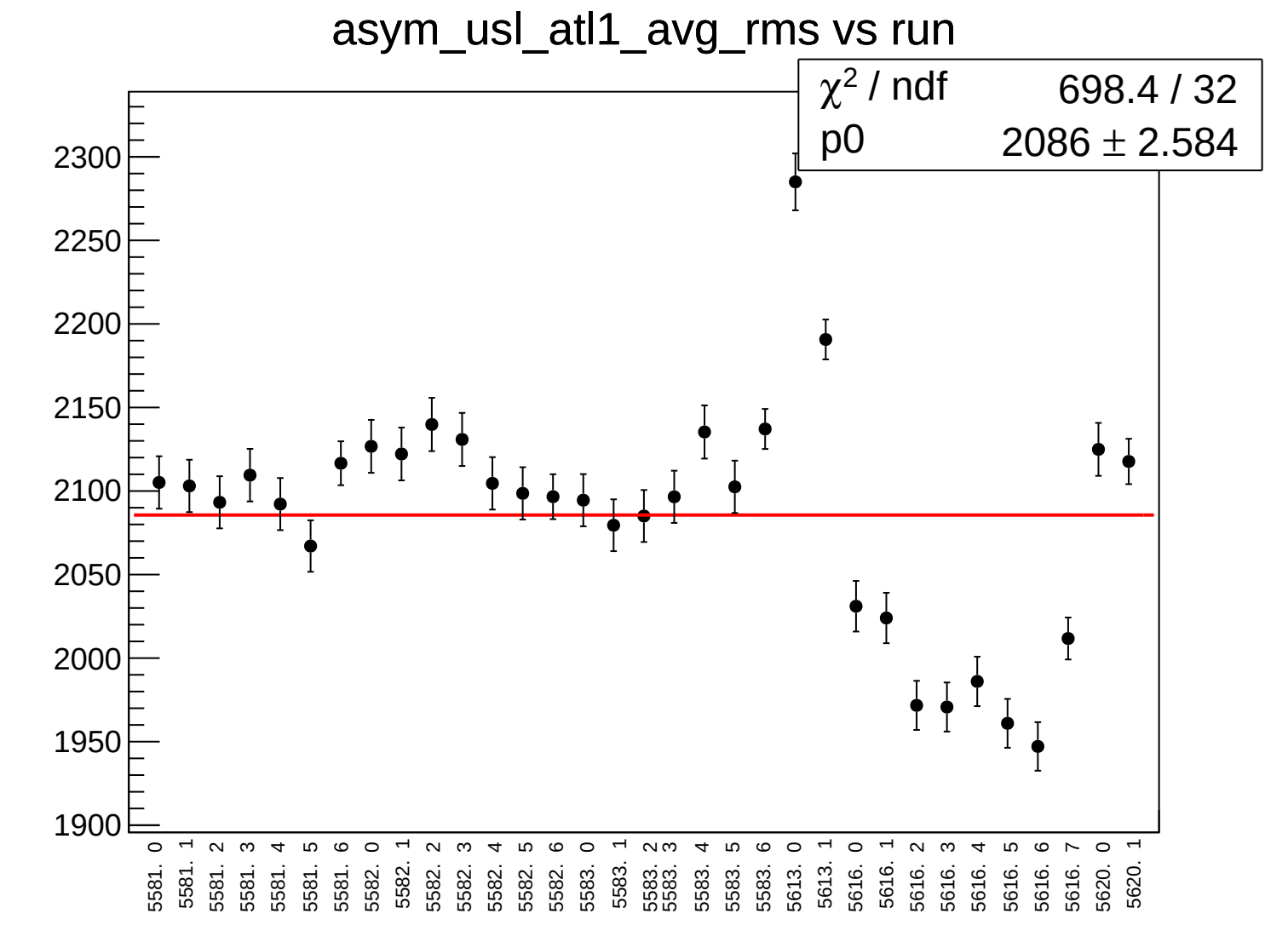

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 34.43 / 32
p0 −133.2 ± 1290
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −135.2
Std Dev 0
2
1
0
−1
−2

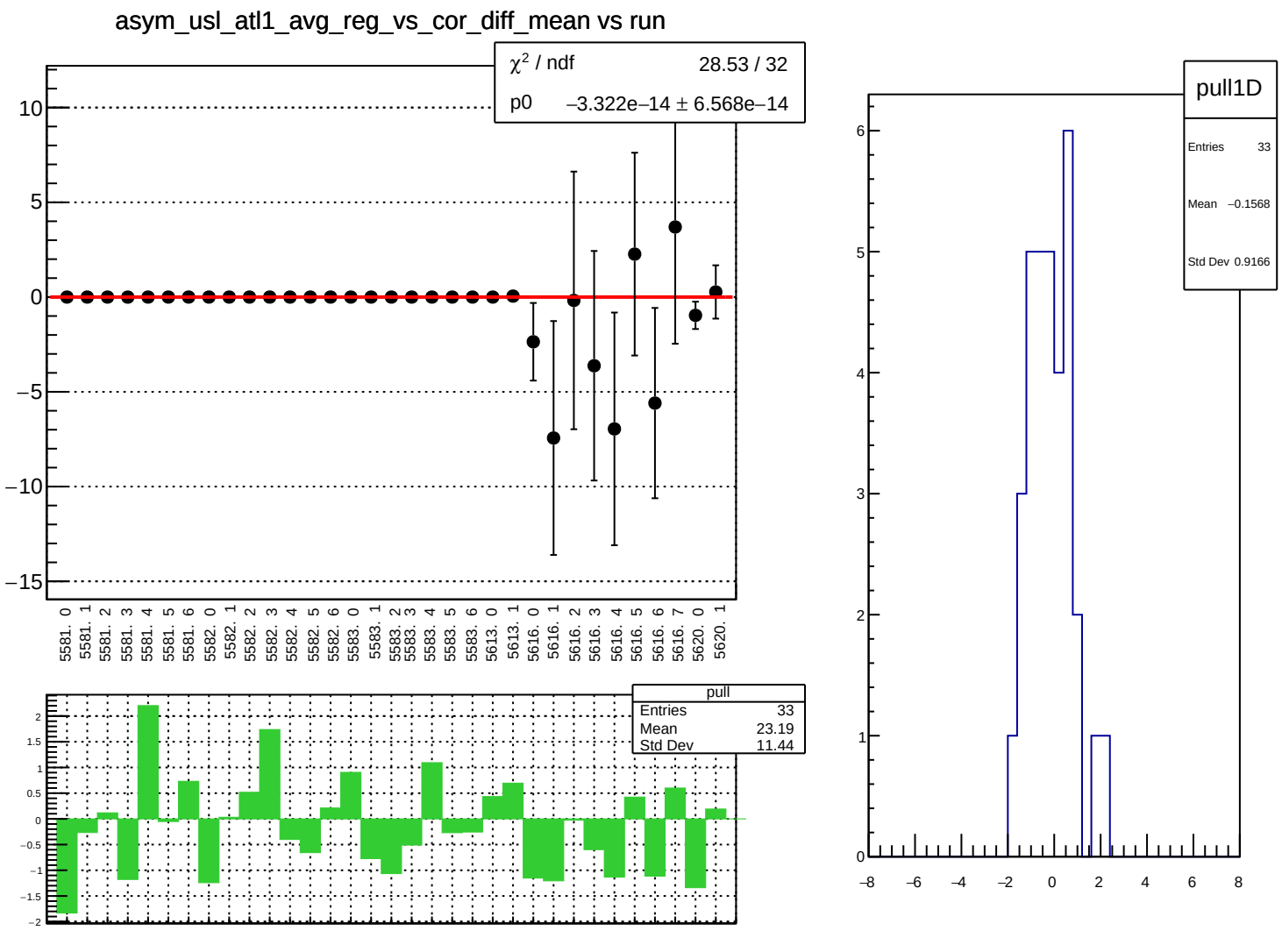

pull1D
Entries 33
Mean 0.0155
Std Dev 1.021
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

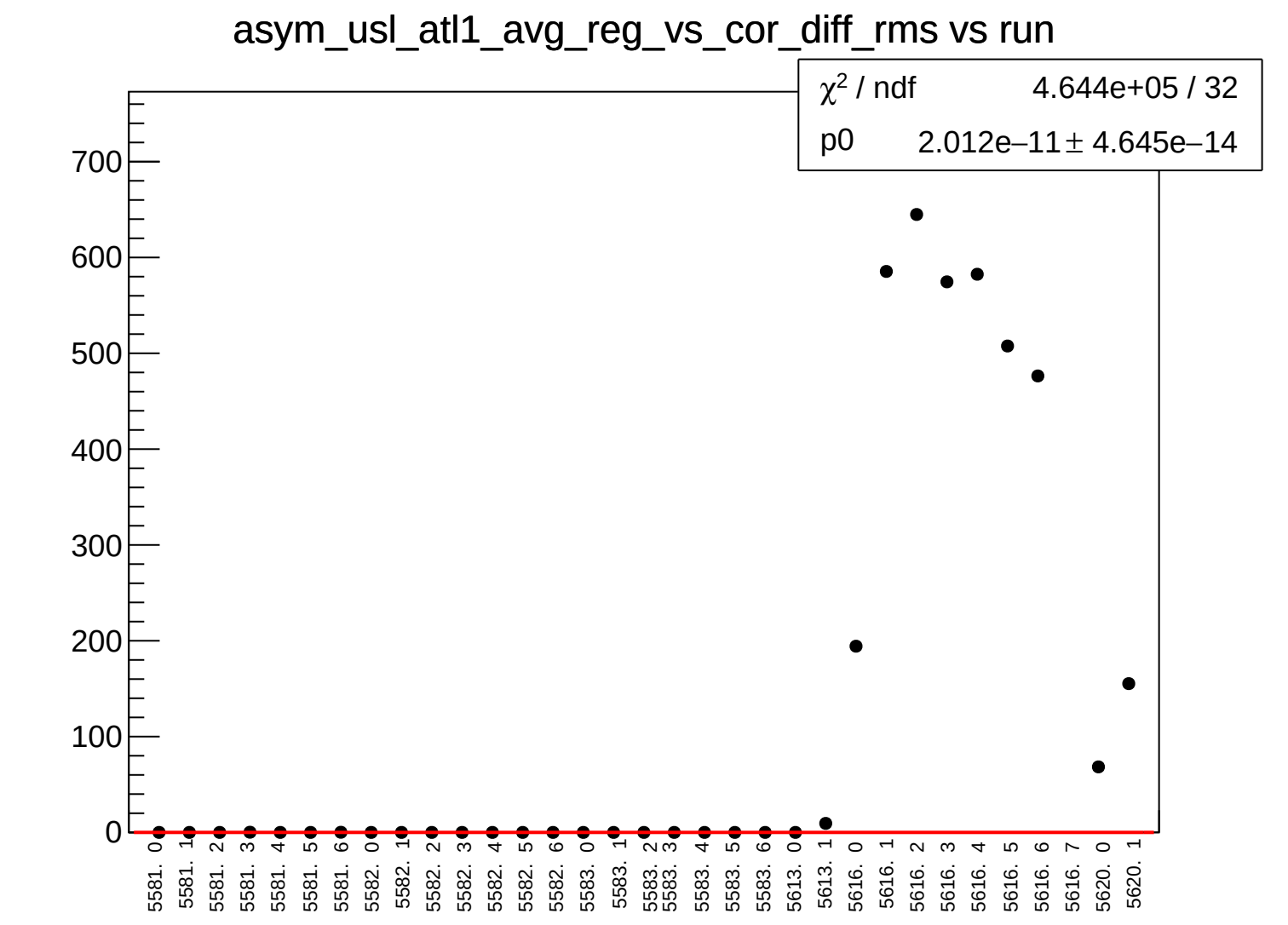

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.534e+04 / 32
p0 722 ± 0.9121
950
900
850
800
750
700
650
600
550
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

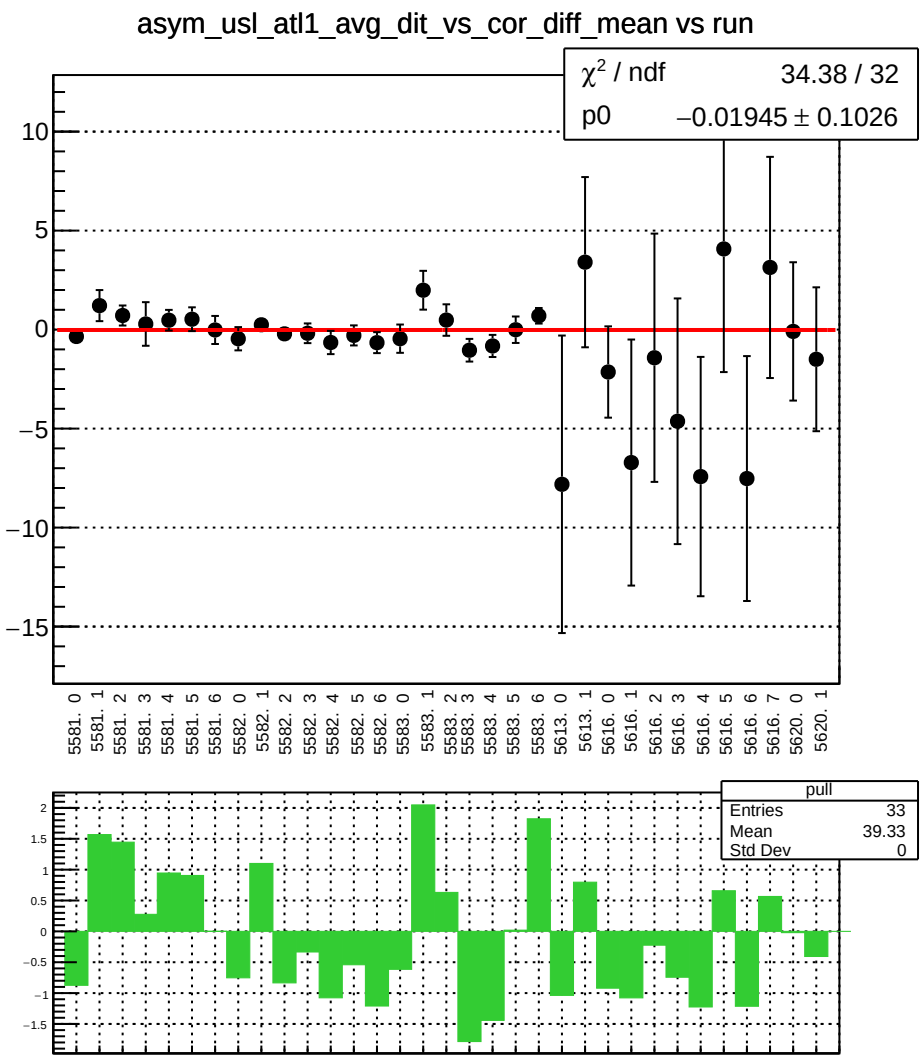

asym_usl_atl1_avg_mean vs run
χ² / ndf 25.33 / 32
p0 −138.3 ± 3655
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 1134
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

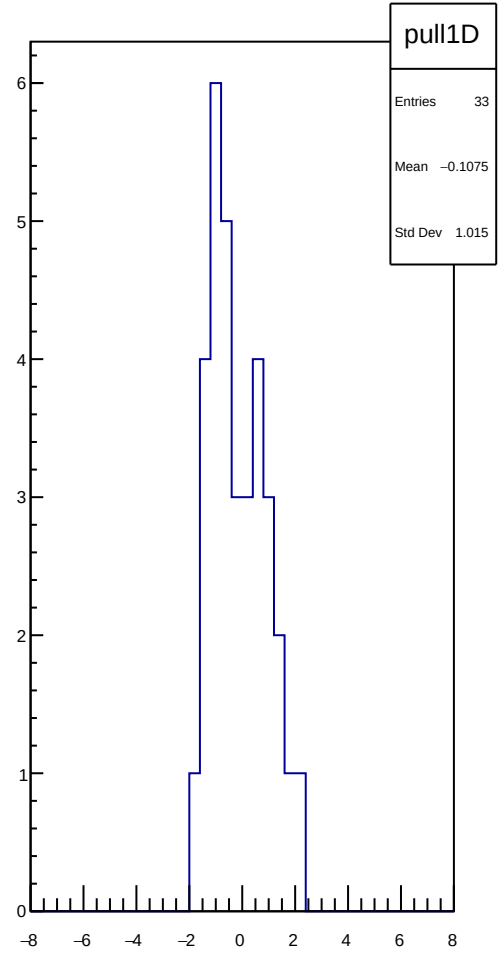

pull1D
Entries 33
Mean −0.0015
Std Dev 0.8761
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

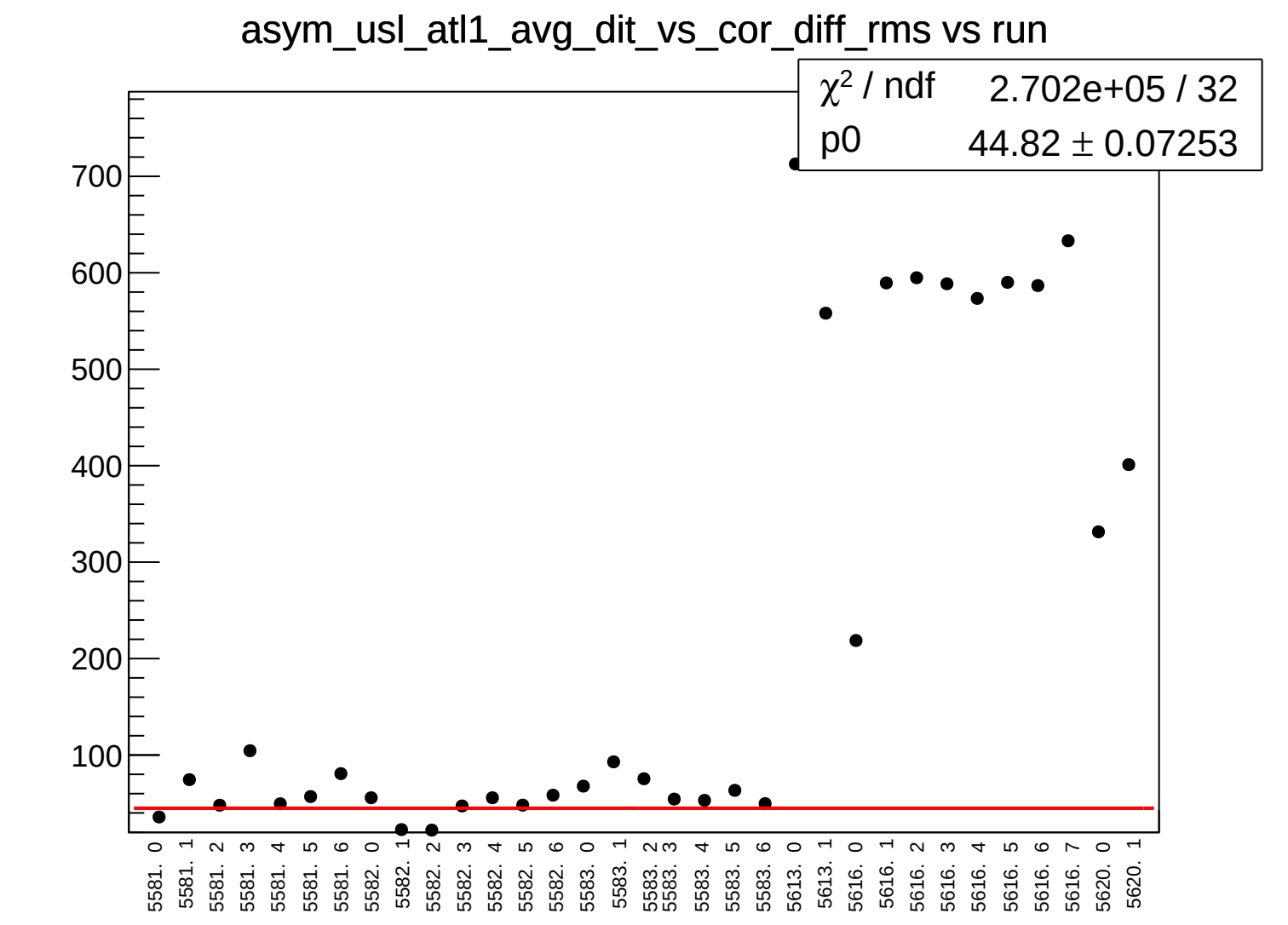

asym_usl_atl1_avg_rms vs run
χ² / ndf 698.4 / 32
p0 2086 ± 2.584
2300
2250
2200
2150
2100
2050
2000
1950
1900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

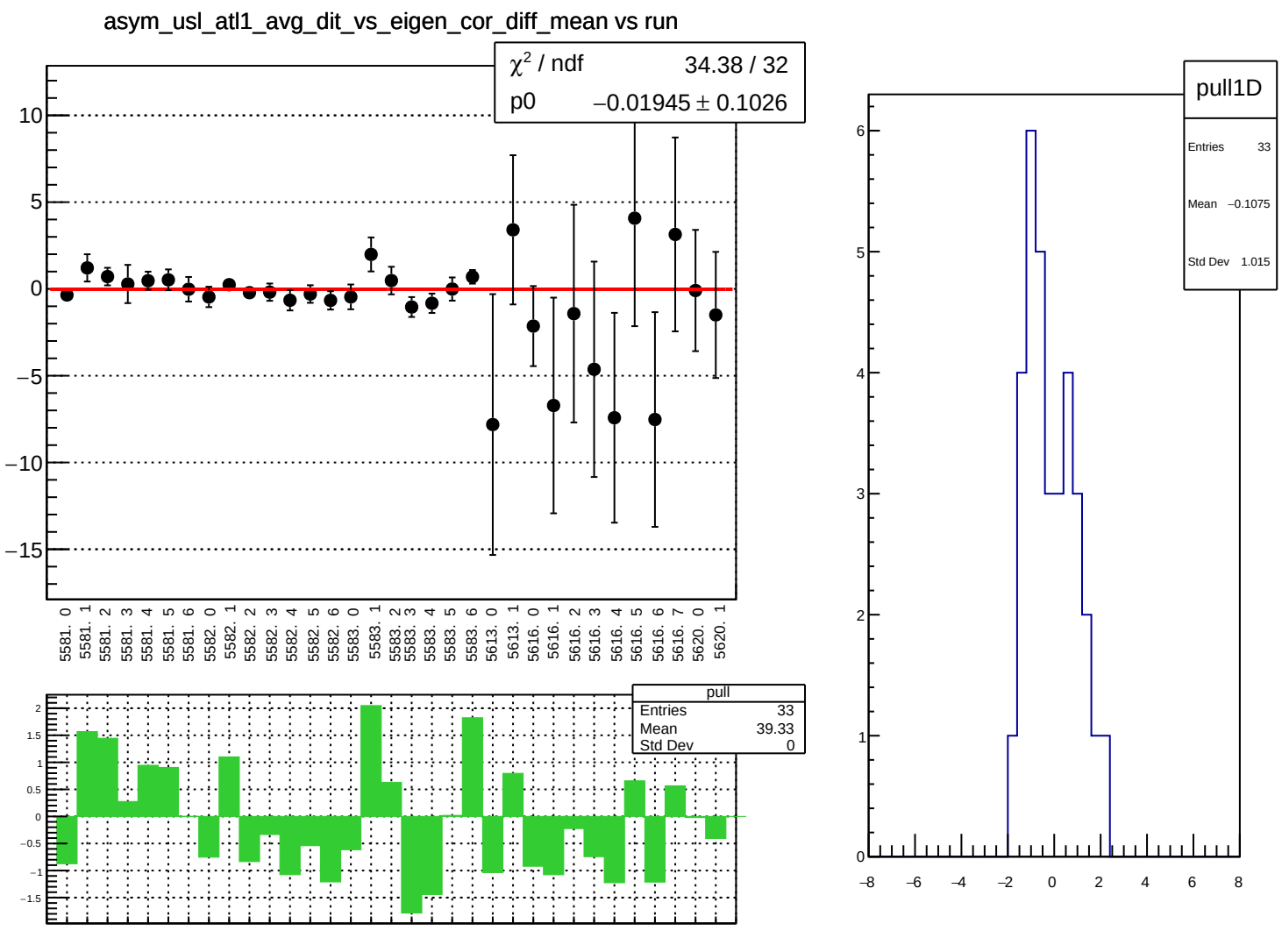

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 28.53 / 32
p0 −3.322e−14 ± 6.568e−14
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.19
Std Dev 11.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1568
Std Dev 0.9166
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

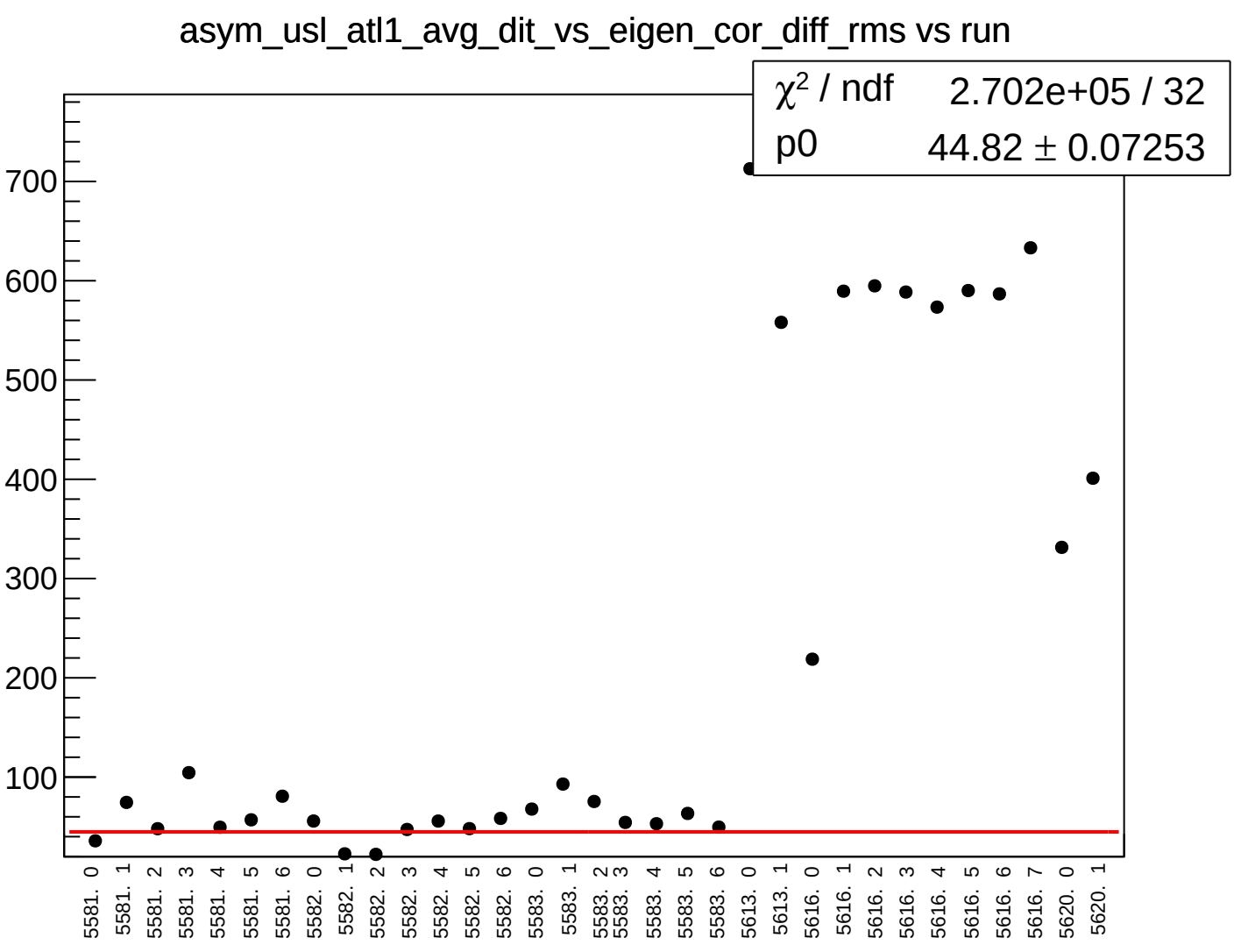

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.644e+05 / 32
p0 2.012e−11 ± 4.645e−14
700
600
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

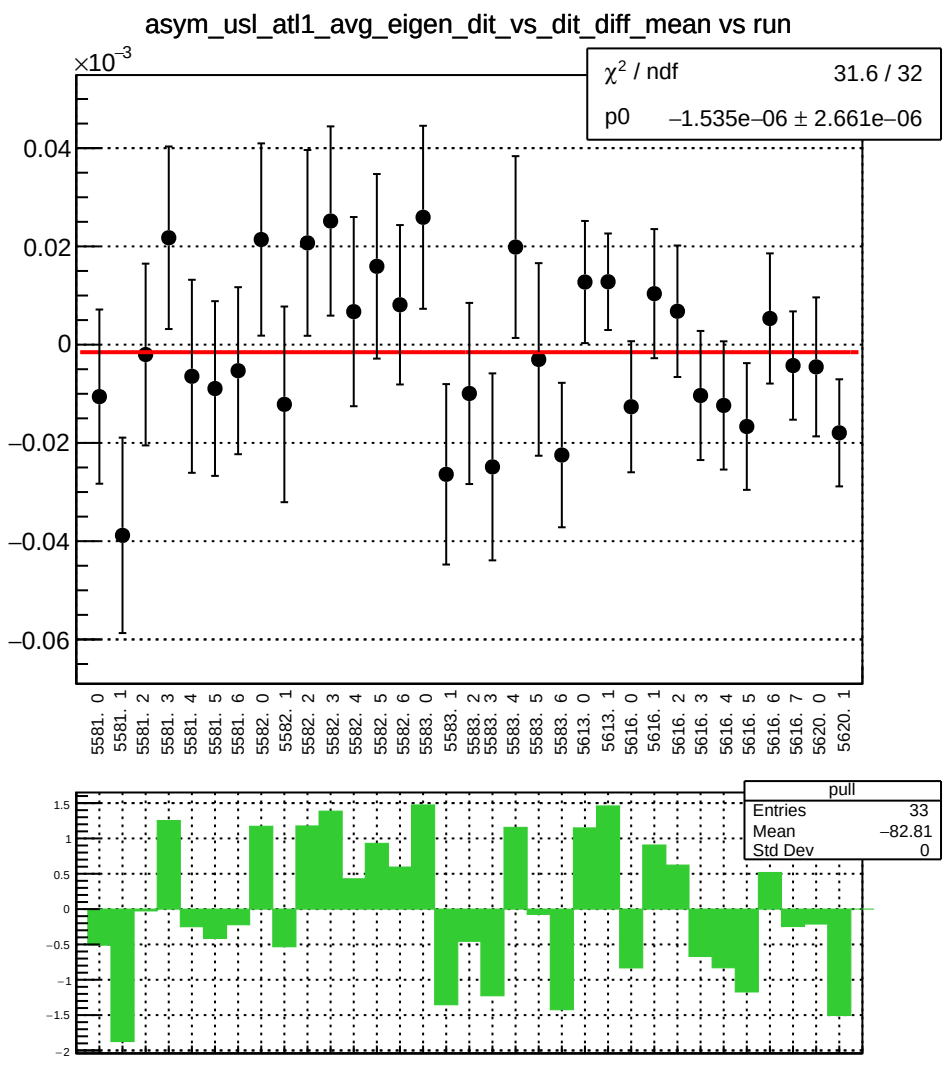

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 34.38 / 32
p0 −0.01945 ± 0.1026
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

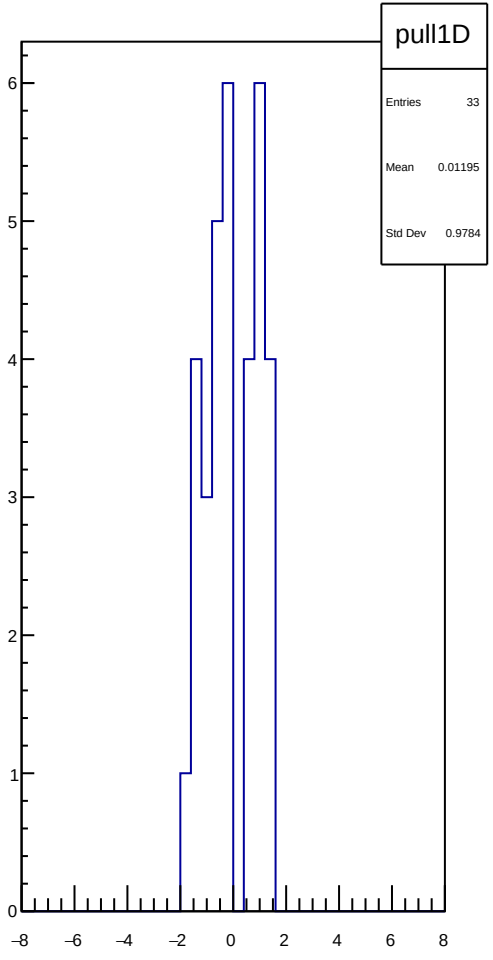

pull1D
Entries 33
Mean −0.1075
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

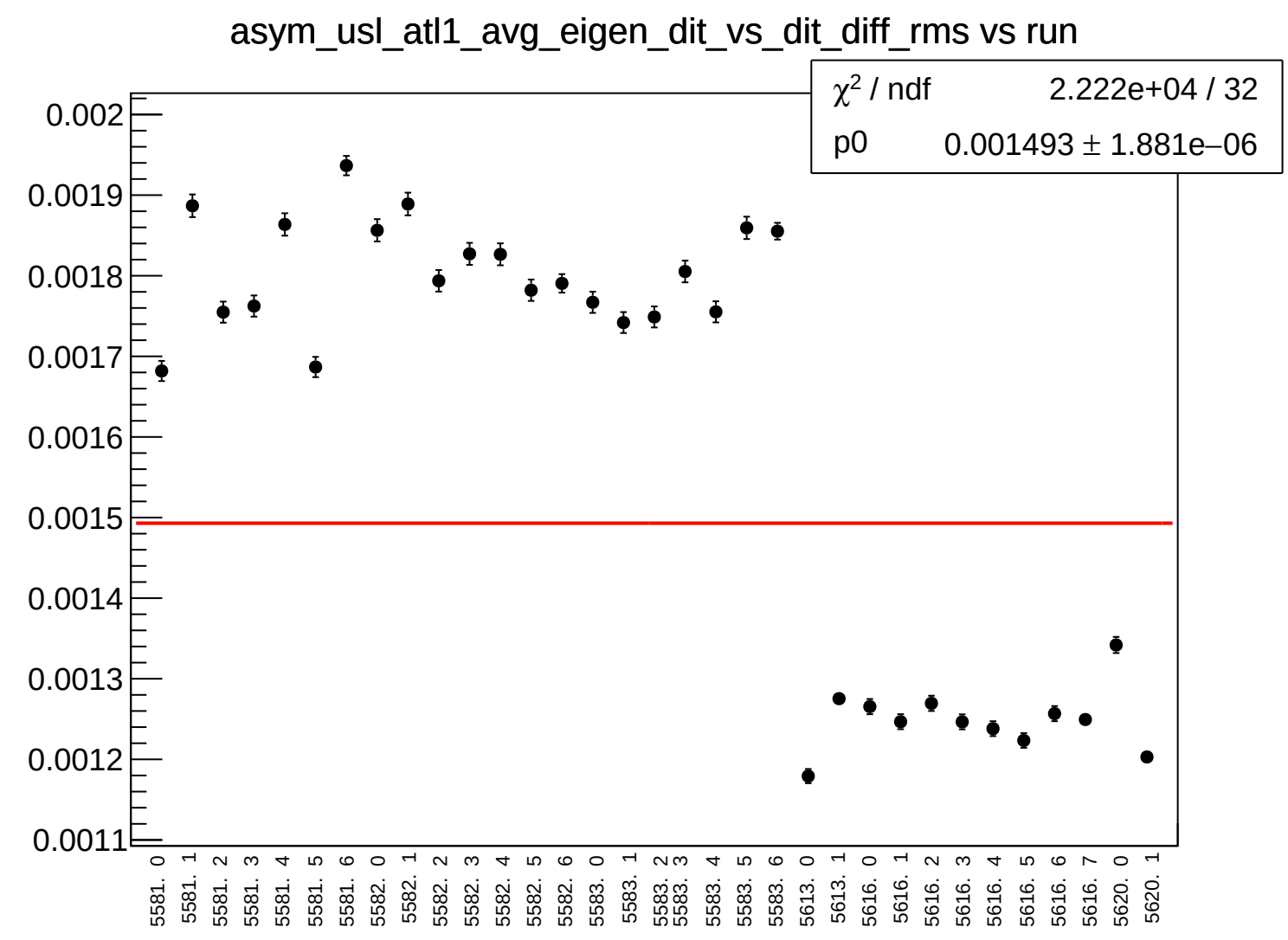

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.702e+05 / 32
p0 44.82 ± 0.07253
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

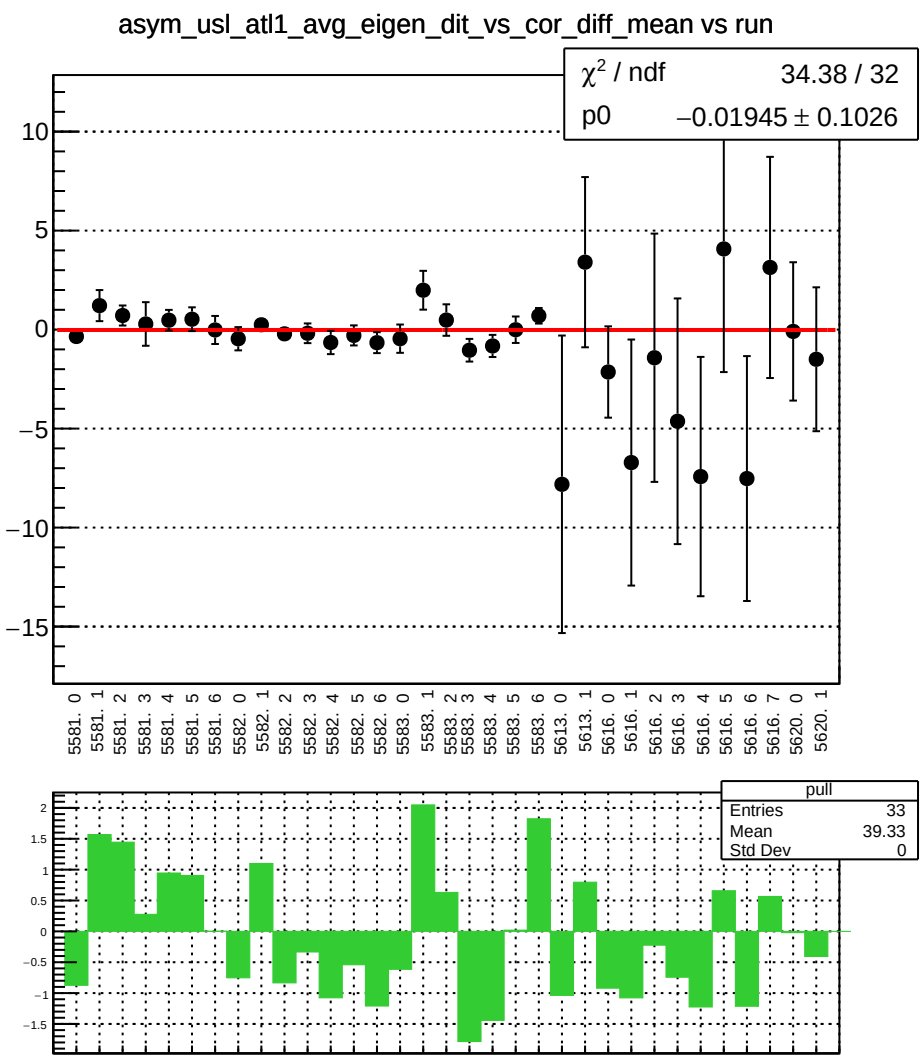

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.38 / 32
p0 −0.01945 ± 0.1026
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1075
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

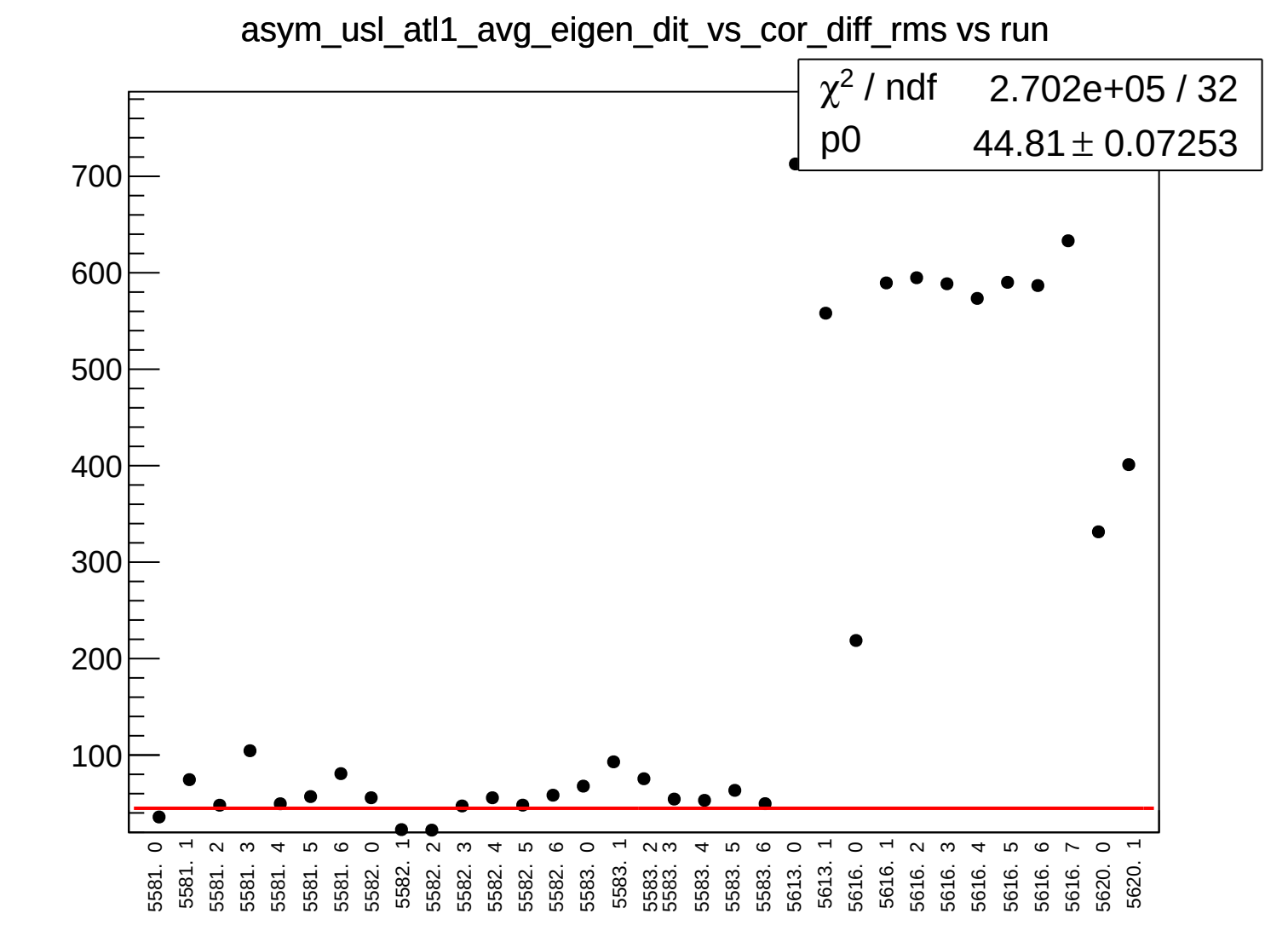

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.702e+05 / 32
p0 44.82 ± 0.07253
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

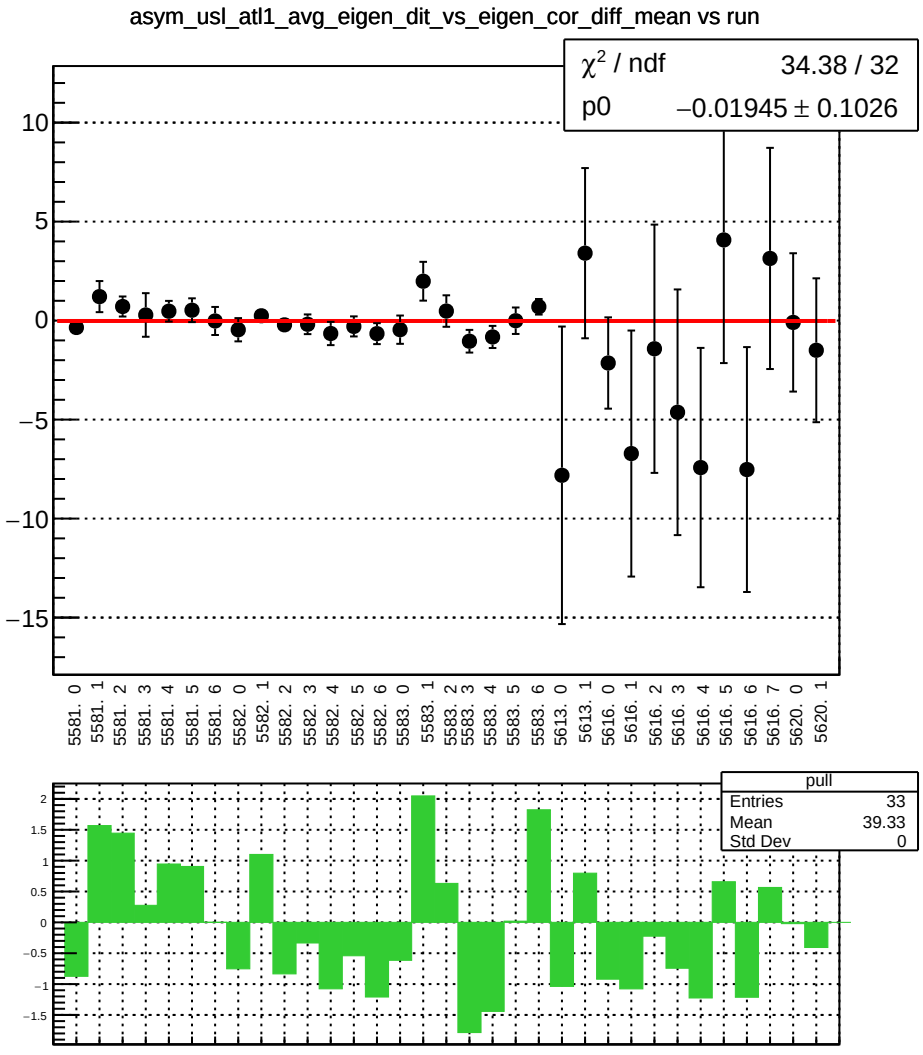

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.6 / 32
p0 −1.535e−06 ± 2.661e−06
0.04
0.02
0
−0.02
−0.04
−0.06
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −82.81
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

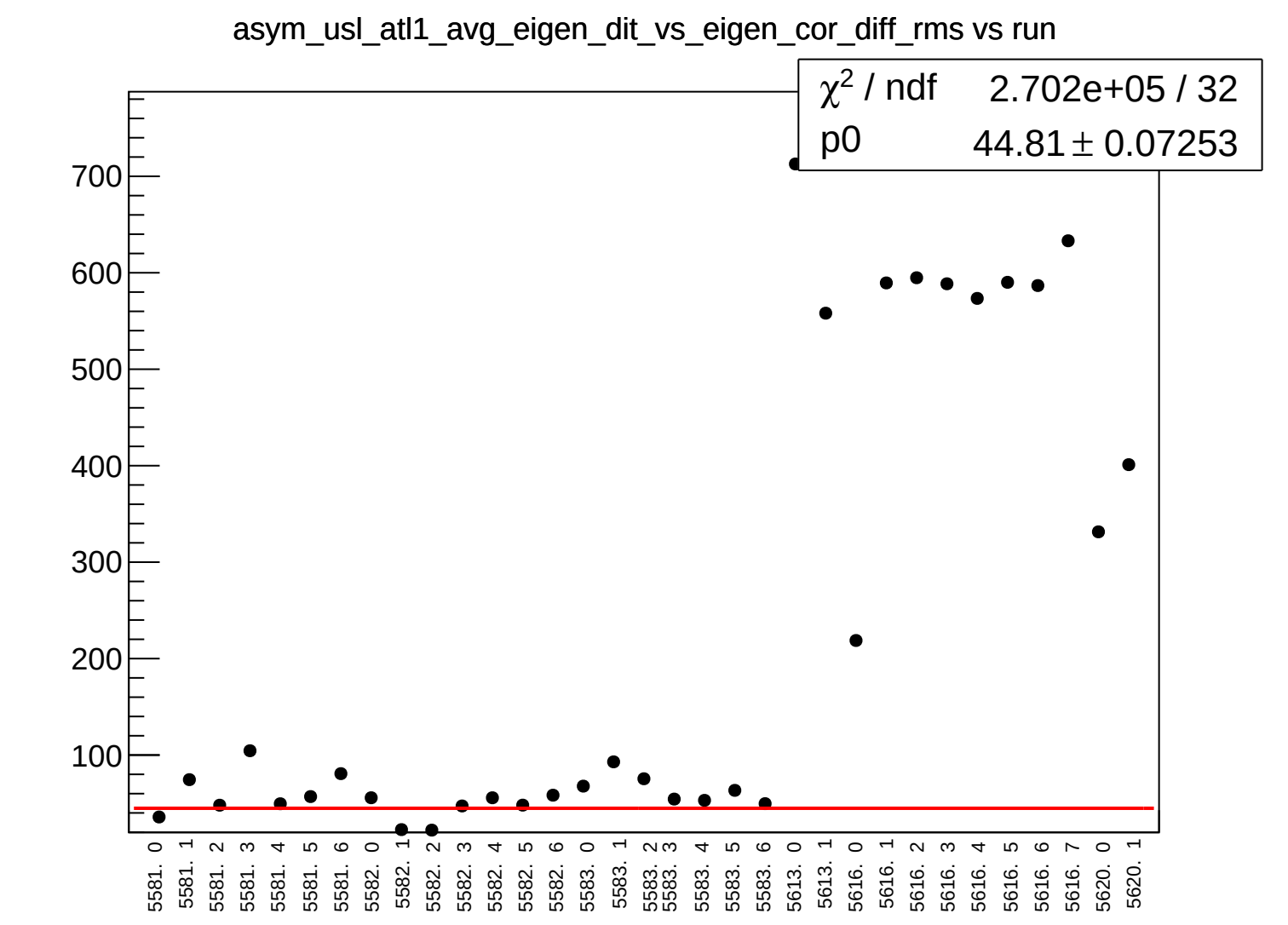

pull1D
Entries 33
Mean 0.01195
Std Dev 0.9784
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

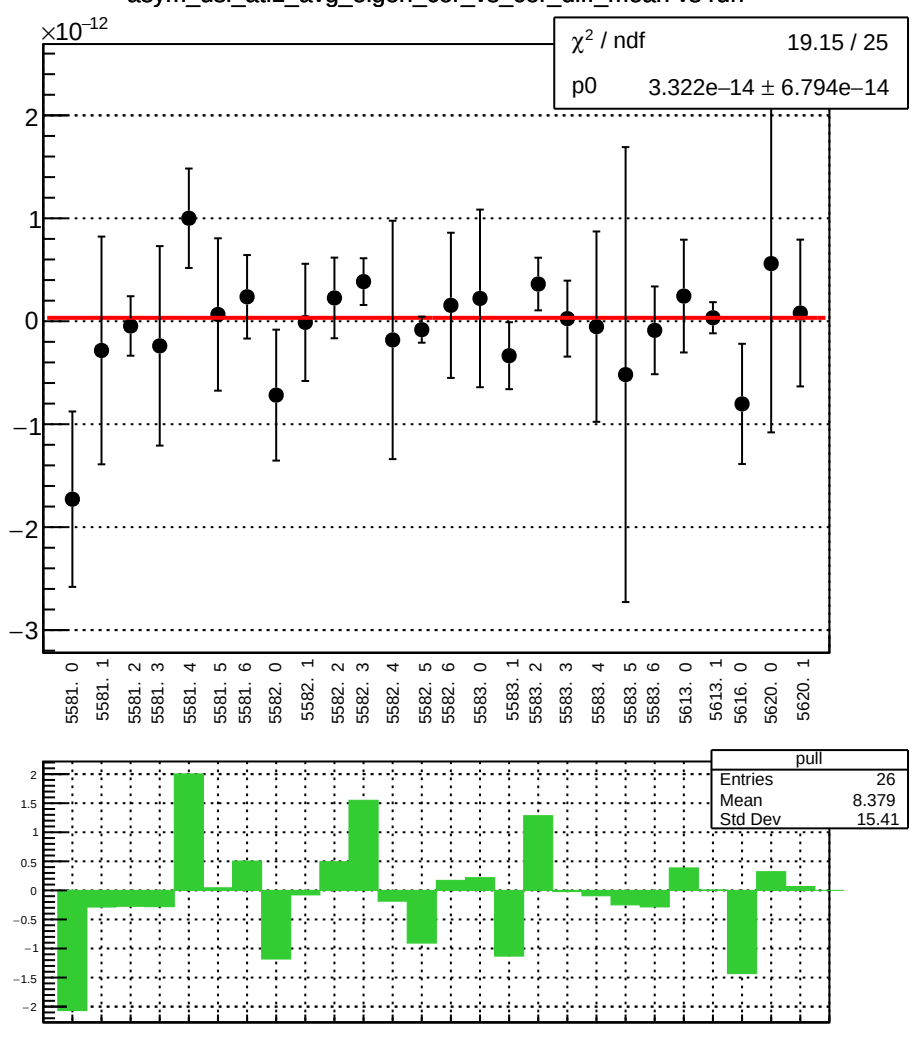

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.222e+04 / 32
p0 0.001493 ± 1.881e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

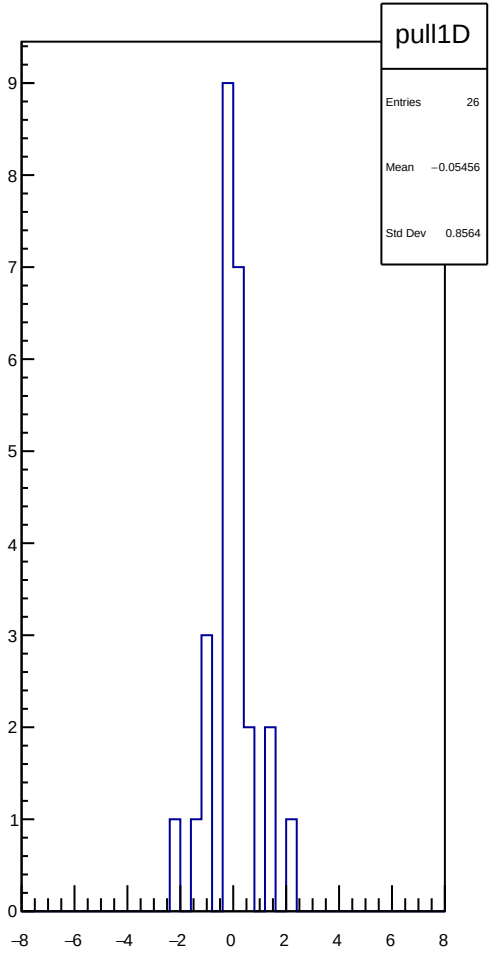

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.38 / 32
p0 −0.01945 ± 0.1026
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1075
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

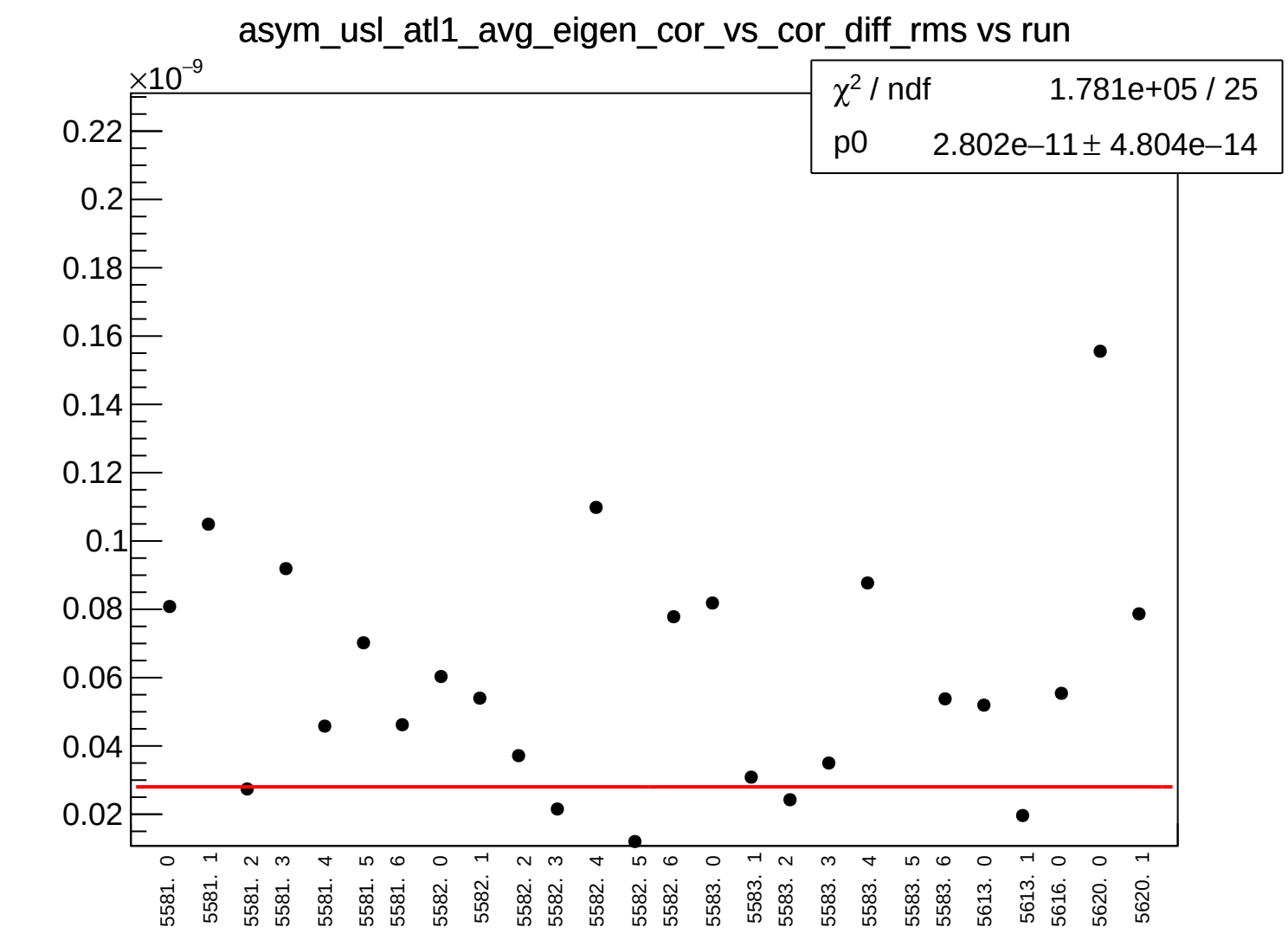

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.702e+05 / 32
p0 44.81 ± 0.07253
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

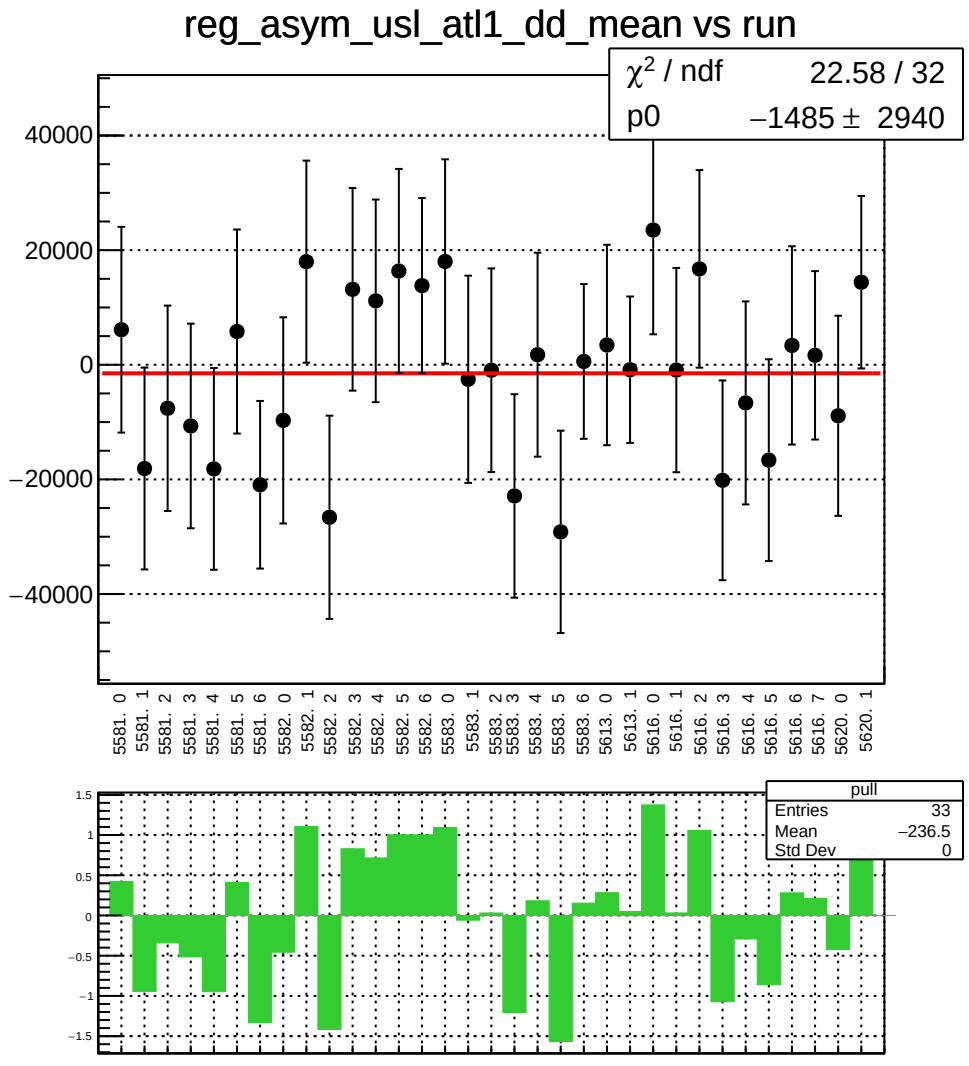

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.38 / 32
p0 −0.01945 ± 0.1026
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1075
Std Dev 1.015
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

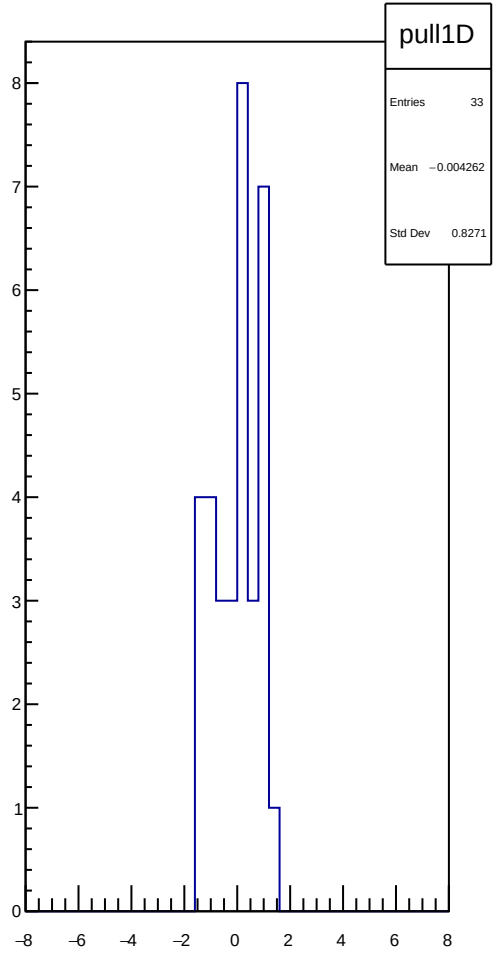

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.702e+05 / 32
p0 44.81 ± 0.07253
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

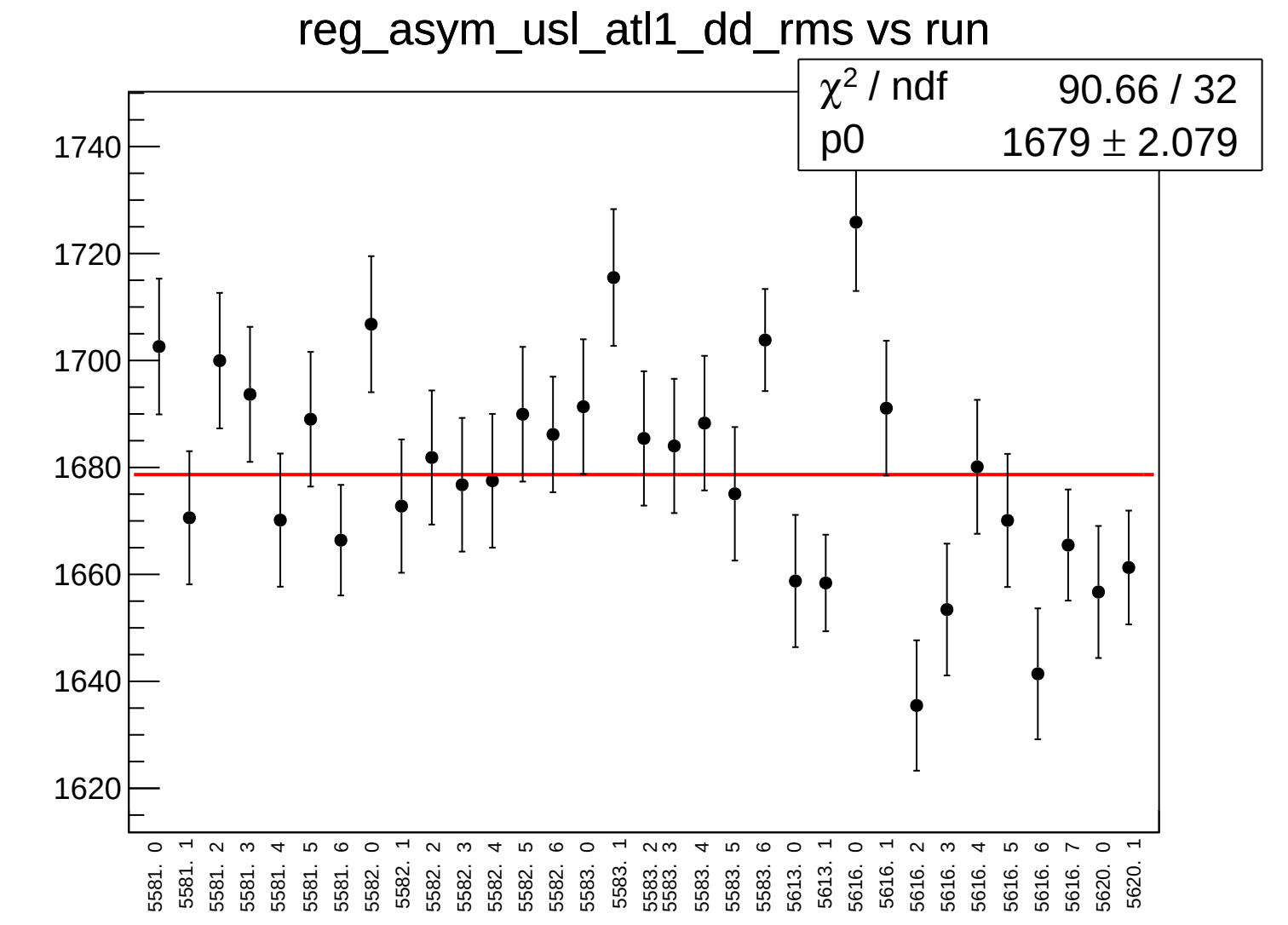

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.15 / 25
p0 3.322e−14 ± 6.794e−14
2
1
0
−1
−2
−3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 8.379
Std Dev 15.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

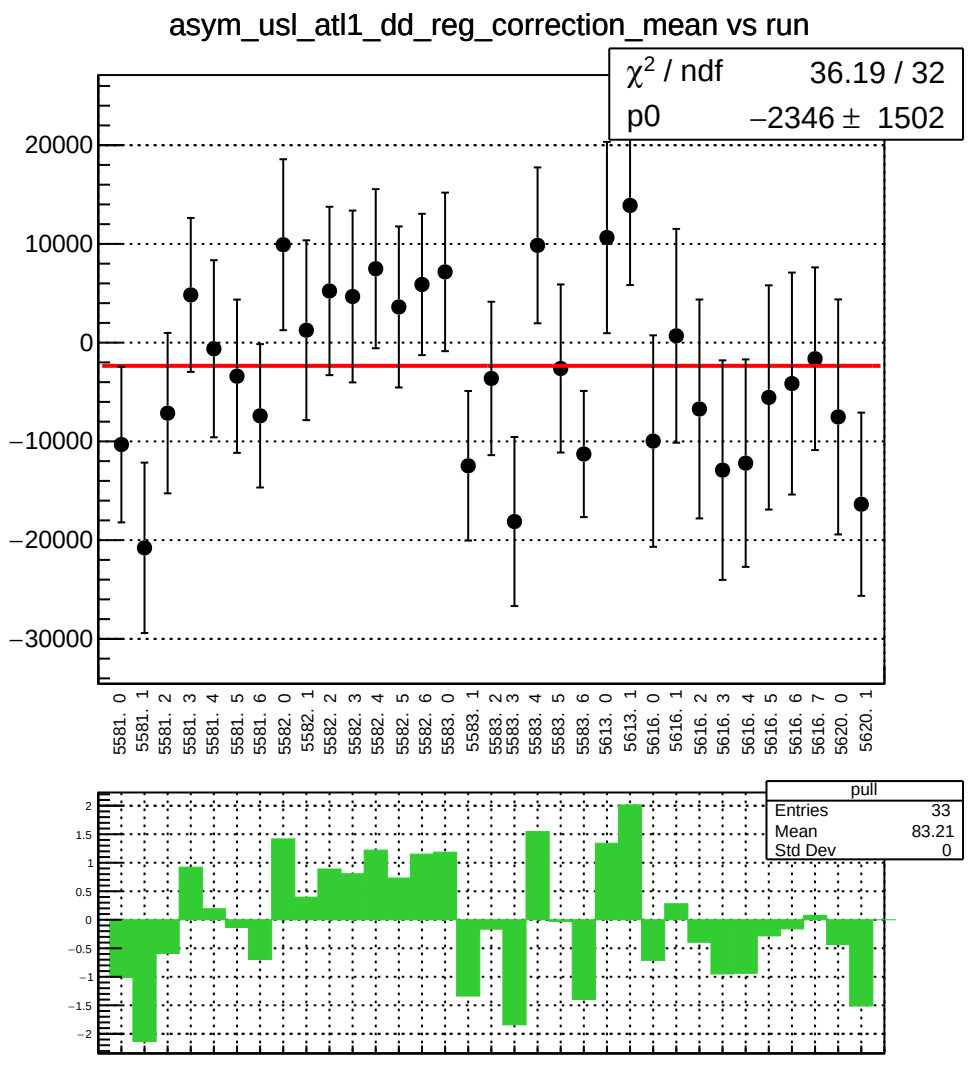

pull1D
Entries 26
Mean −0.05456
Std Dev 0.8564
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

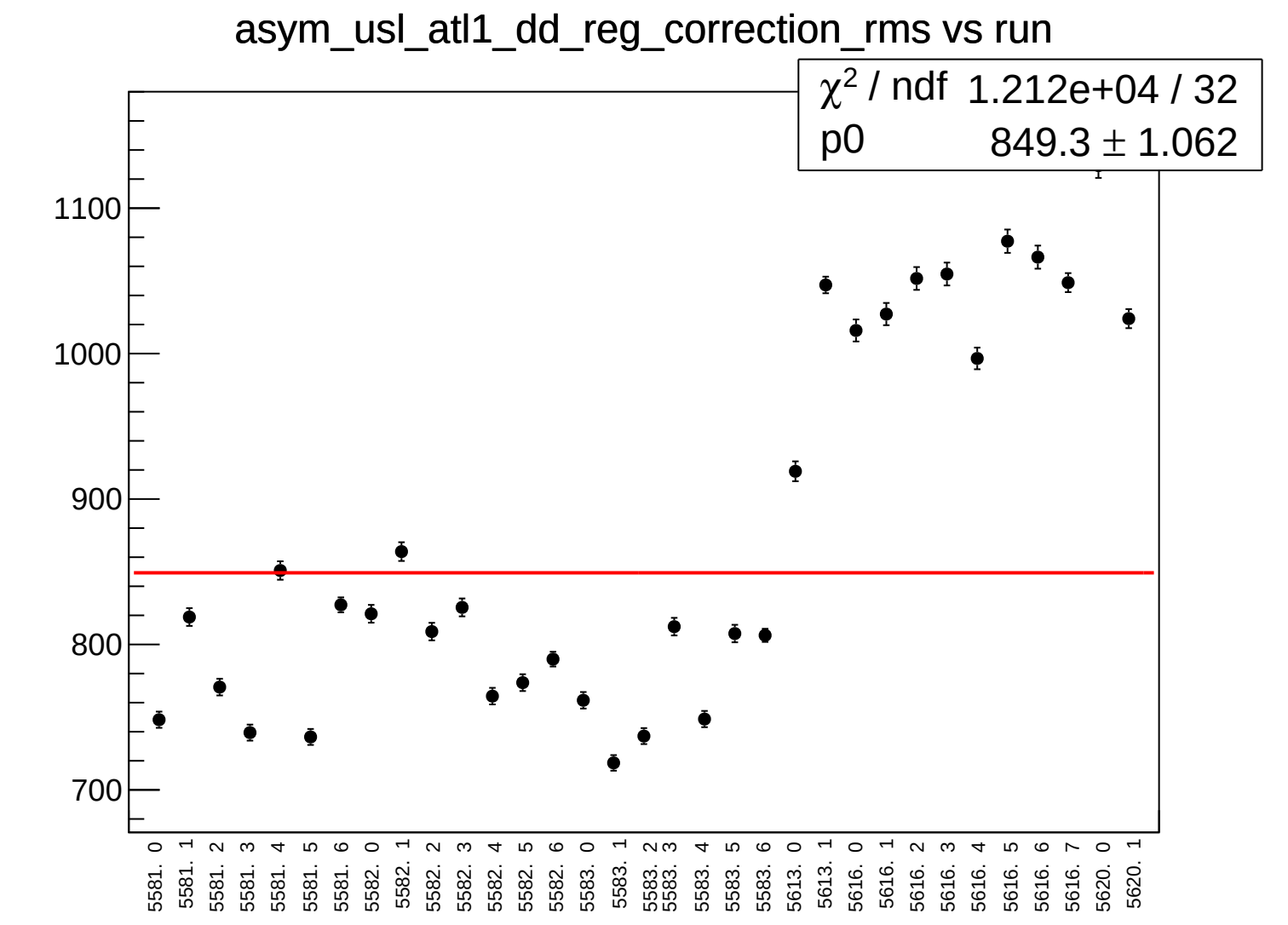

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.781e+05 / 25
p0 2.802e−11 ± 4.804e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

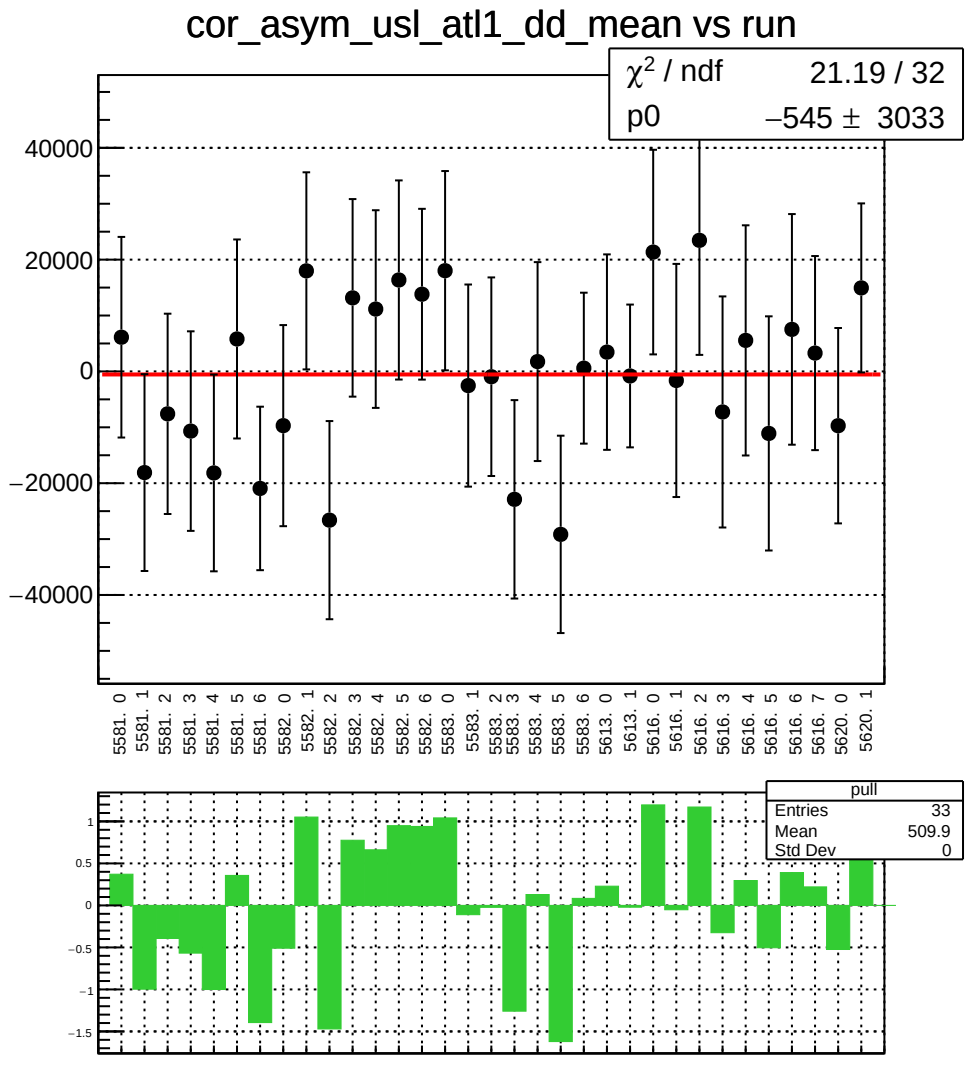

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 22.58 / 32
p0 −1485 ± 2940
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −236.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

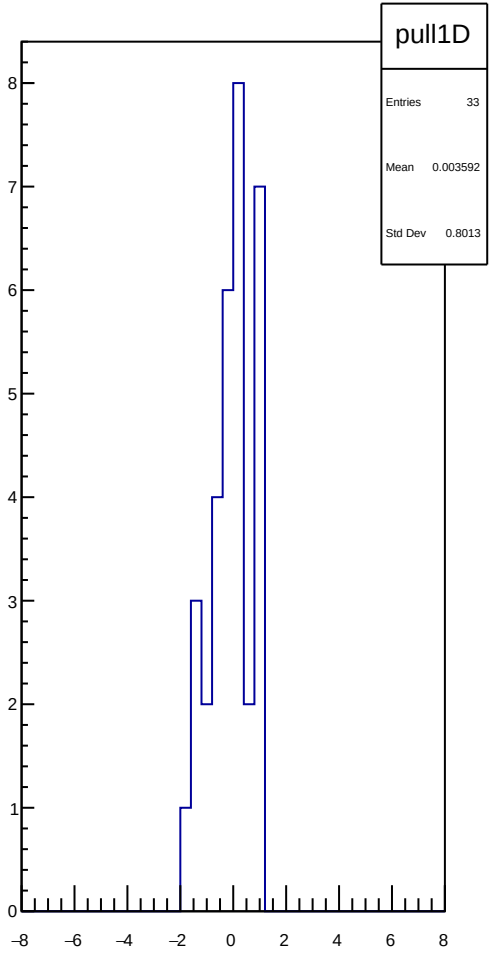

pull1D
Entries 33
Mean −0.004262
Std Dev 0.8271
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

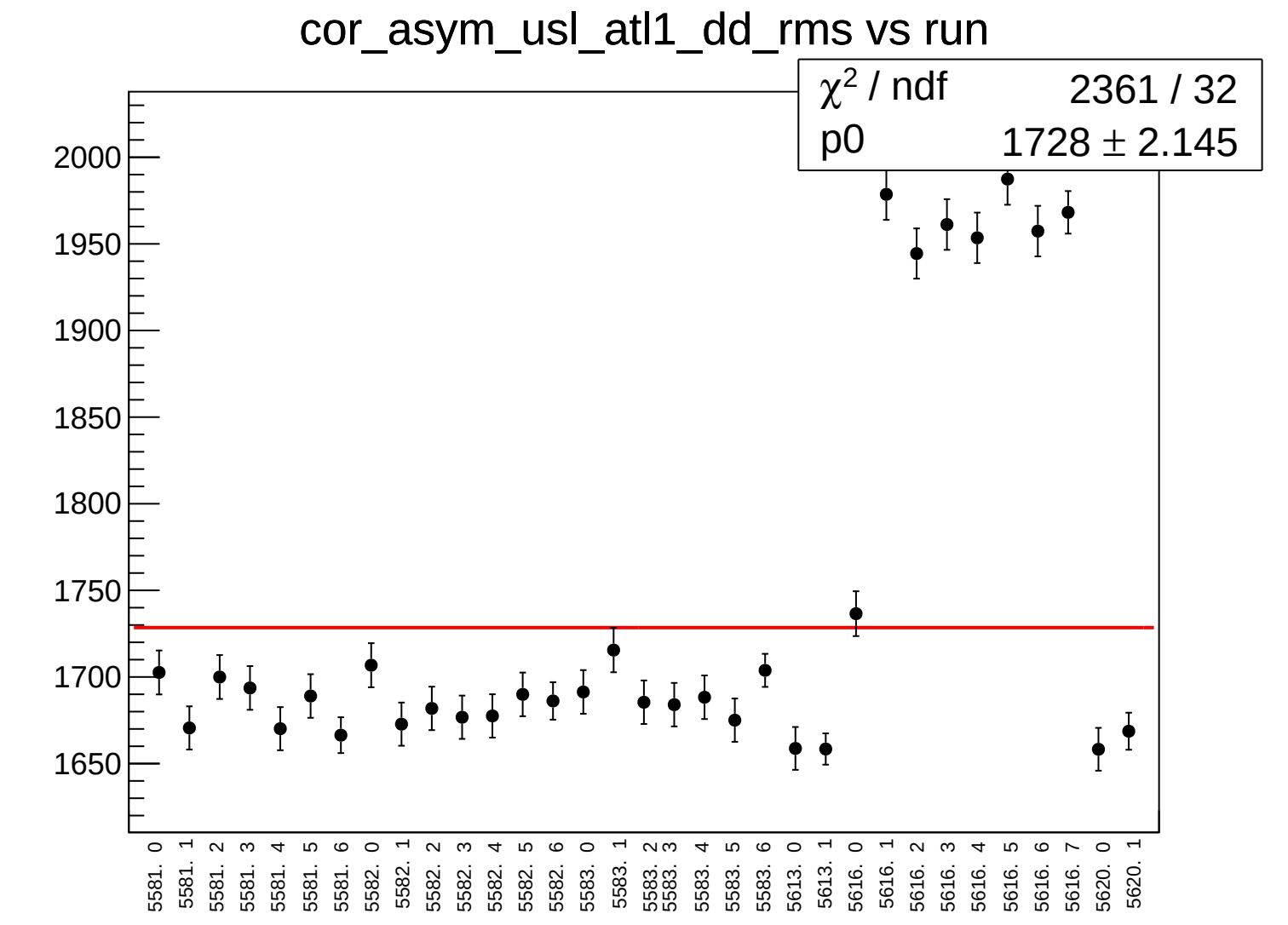

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 90.66 / 32
p0 1679 ± 2.079
1740
1720
1700
1680
1660
1640
1620
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

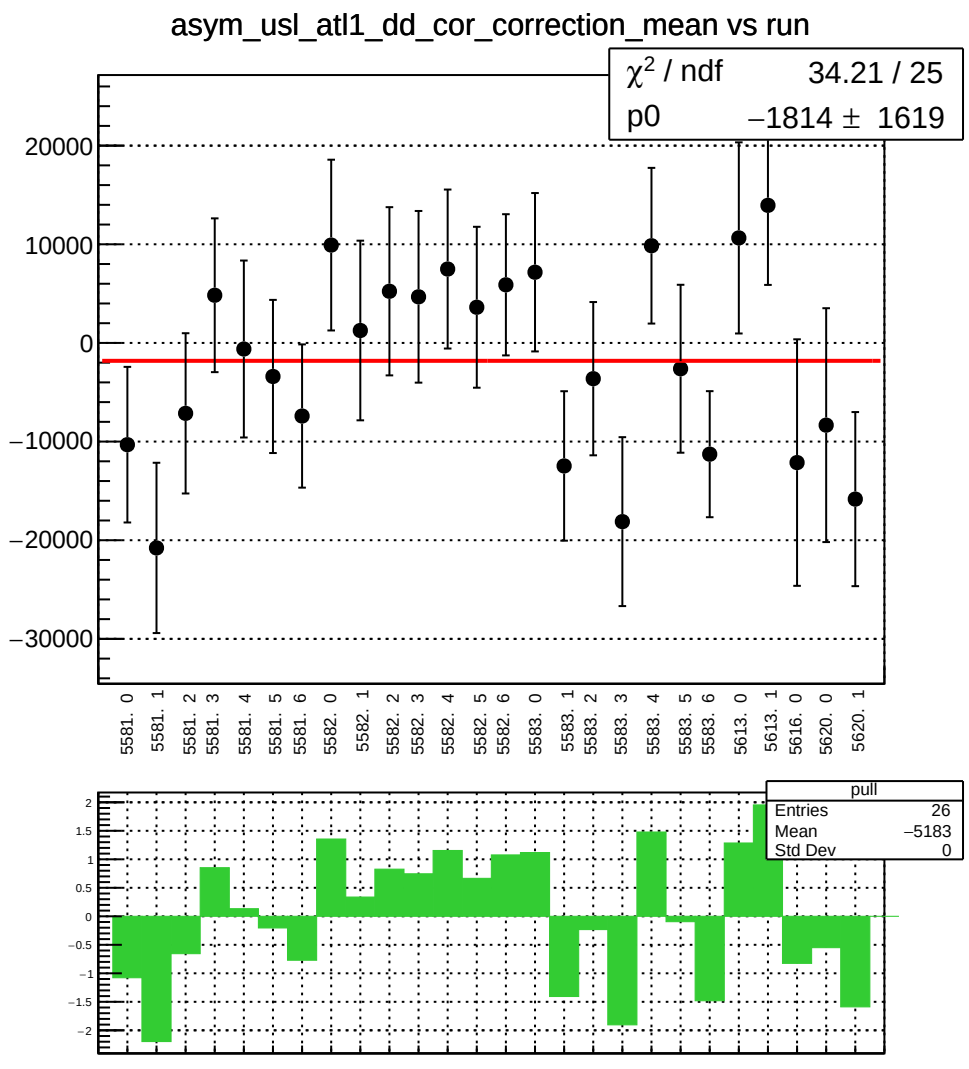

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 36.19 / 32
p0 −2346 ± 1502
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 83.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01667
Std Dev 1.047
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

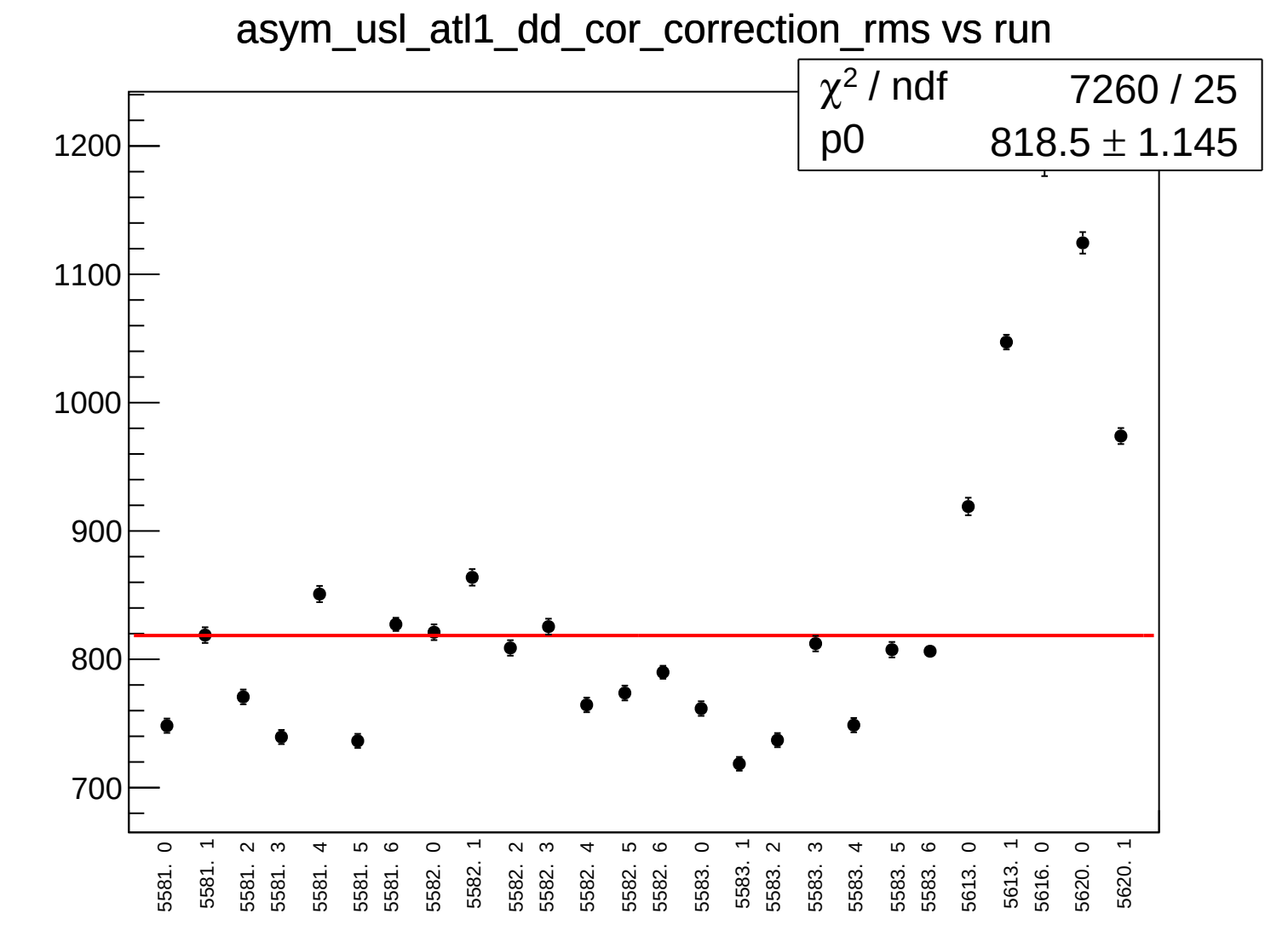

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.212e+04 / 32
p0 849.3 ± 1.062
1100
1000
900
800
700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

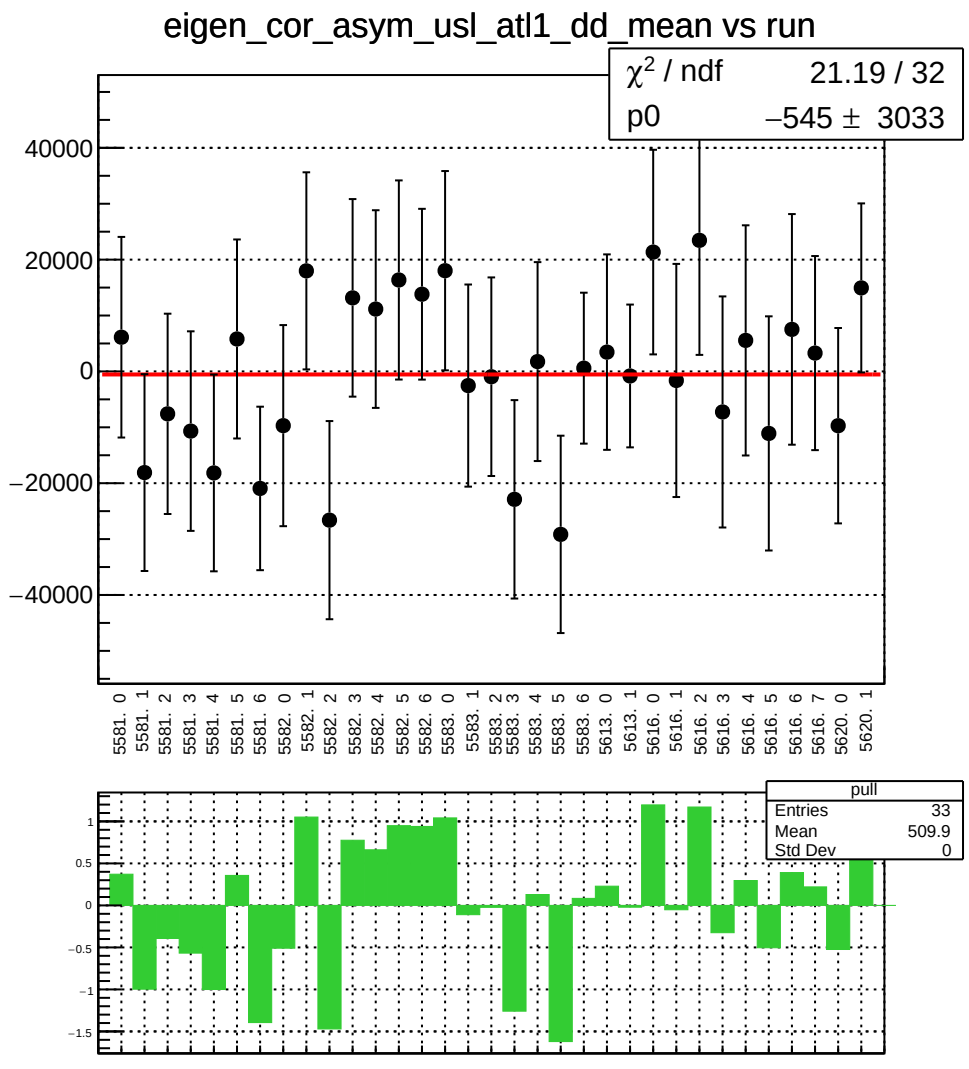

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 21.19 / 32
p0 −545 ± 3033
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 509.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

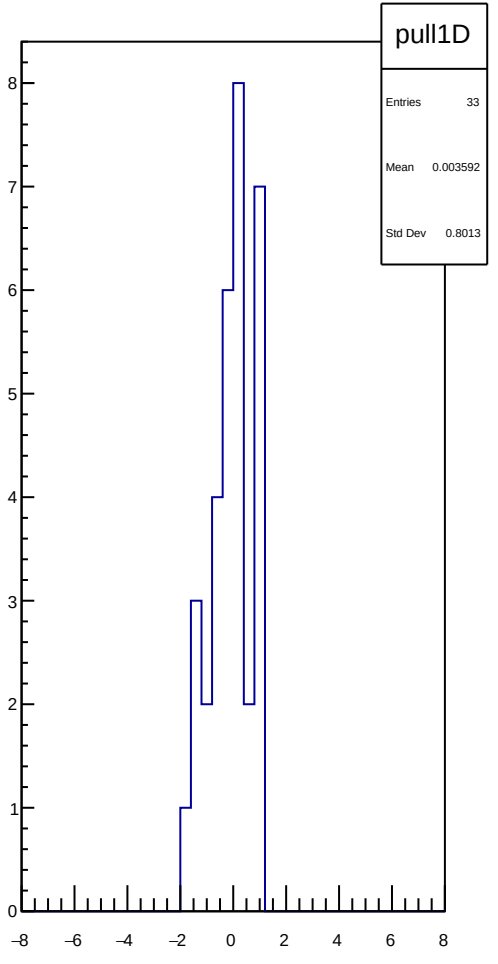

pull1D
Entries 33
Mean 0.003592
Std Dev 0.8013
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

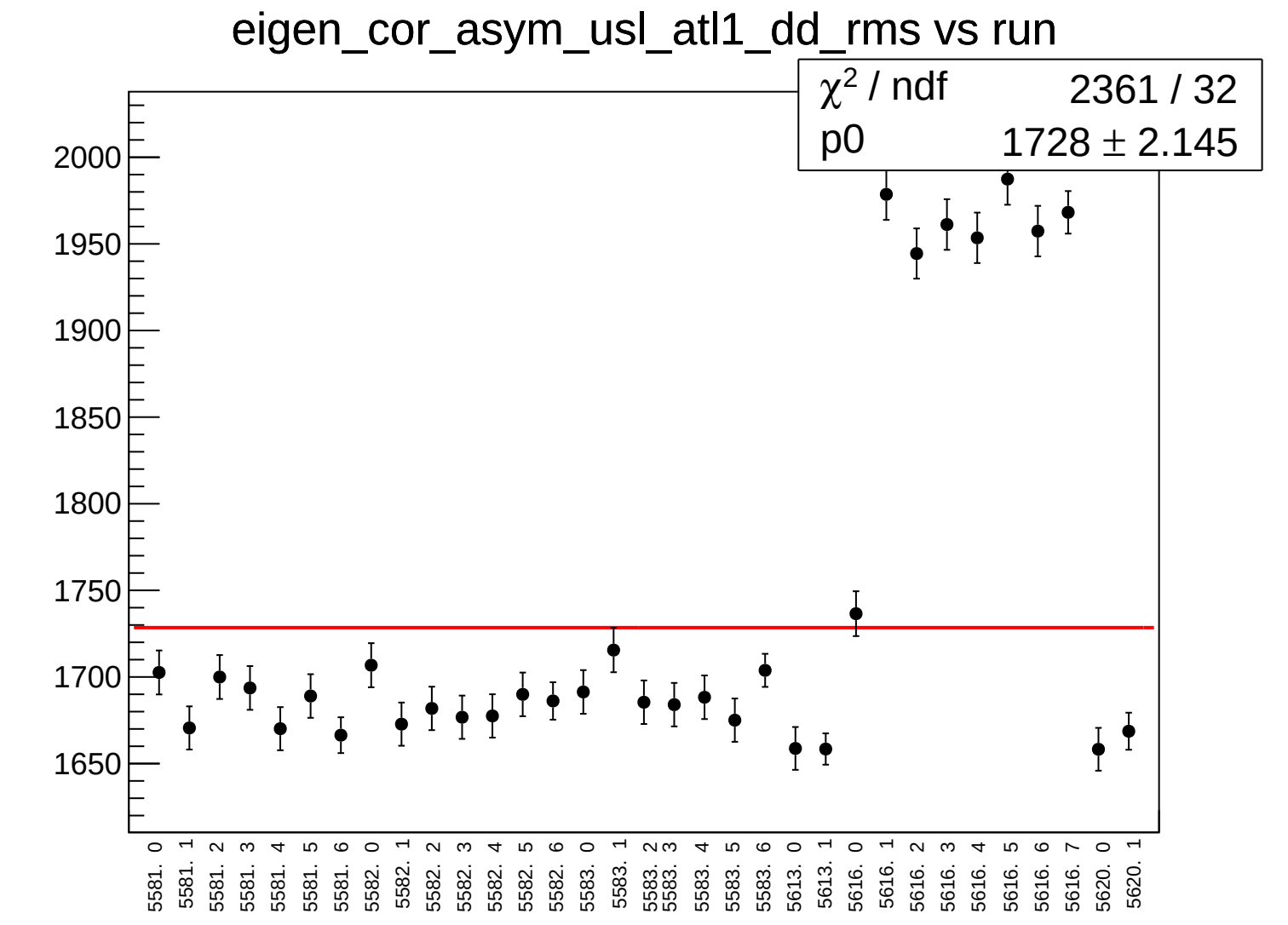

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 2361 / 32
p0 1728 ± 2.145
2000
1950
1900
1850
1800
1750
1700
1650
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

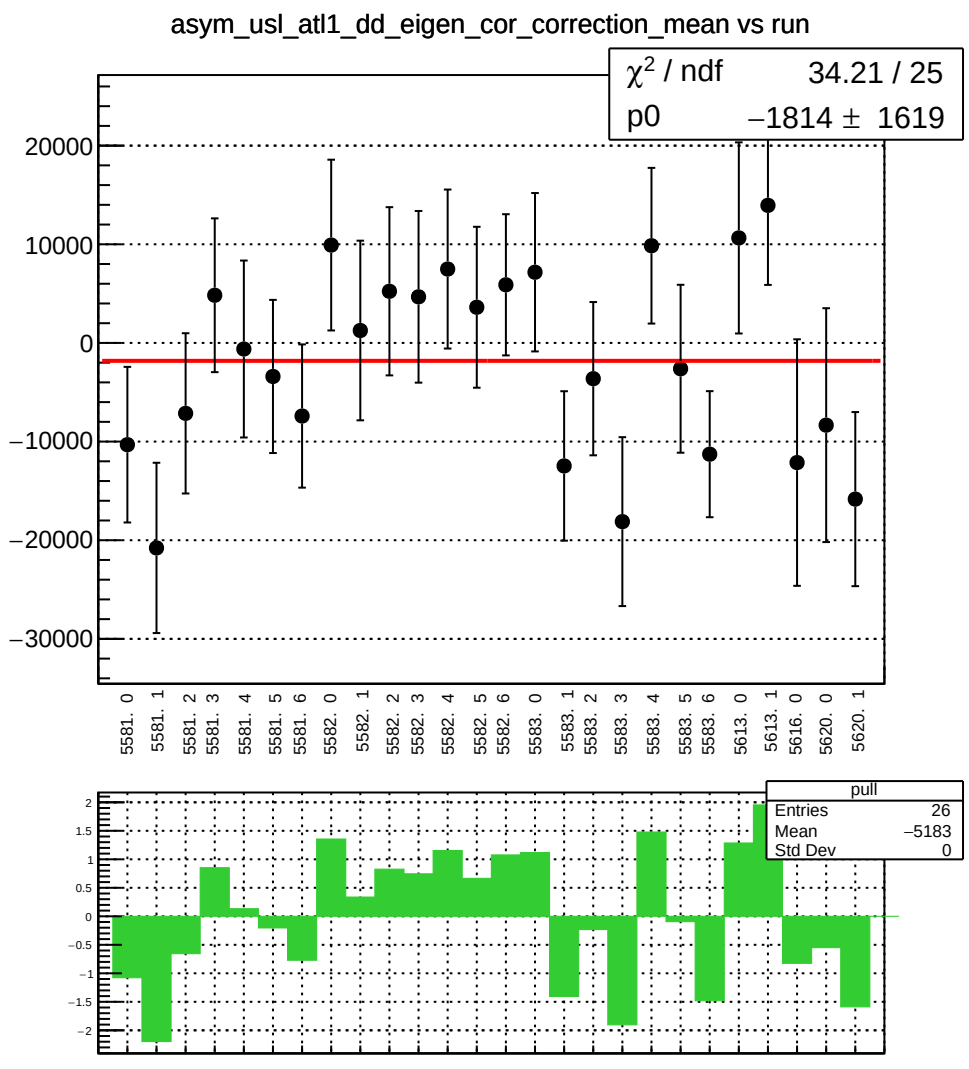

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 34.21 / 25
p0 −1814 ± 1619
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −5183
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −5.55e−05
Std Dev 1.147
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

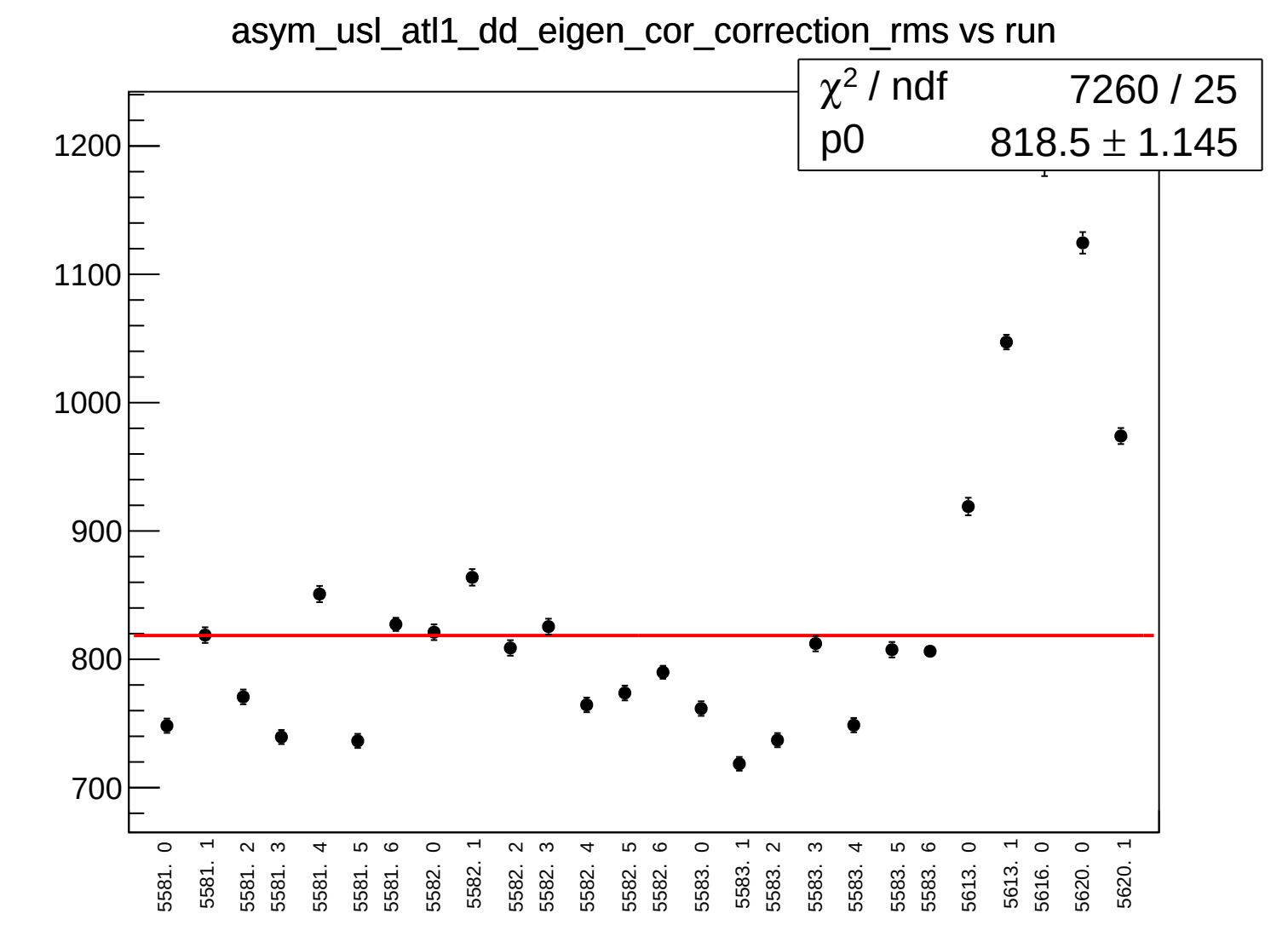

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 7260 / 25
p0 818.5 ± 1.145
1200
1100
1000
900
800
700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

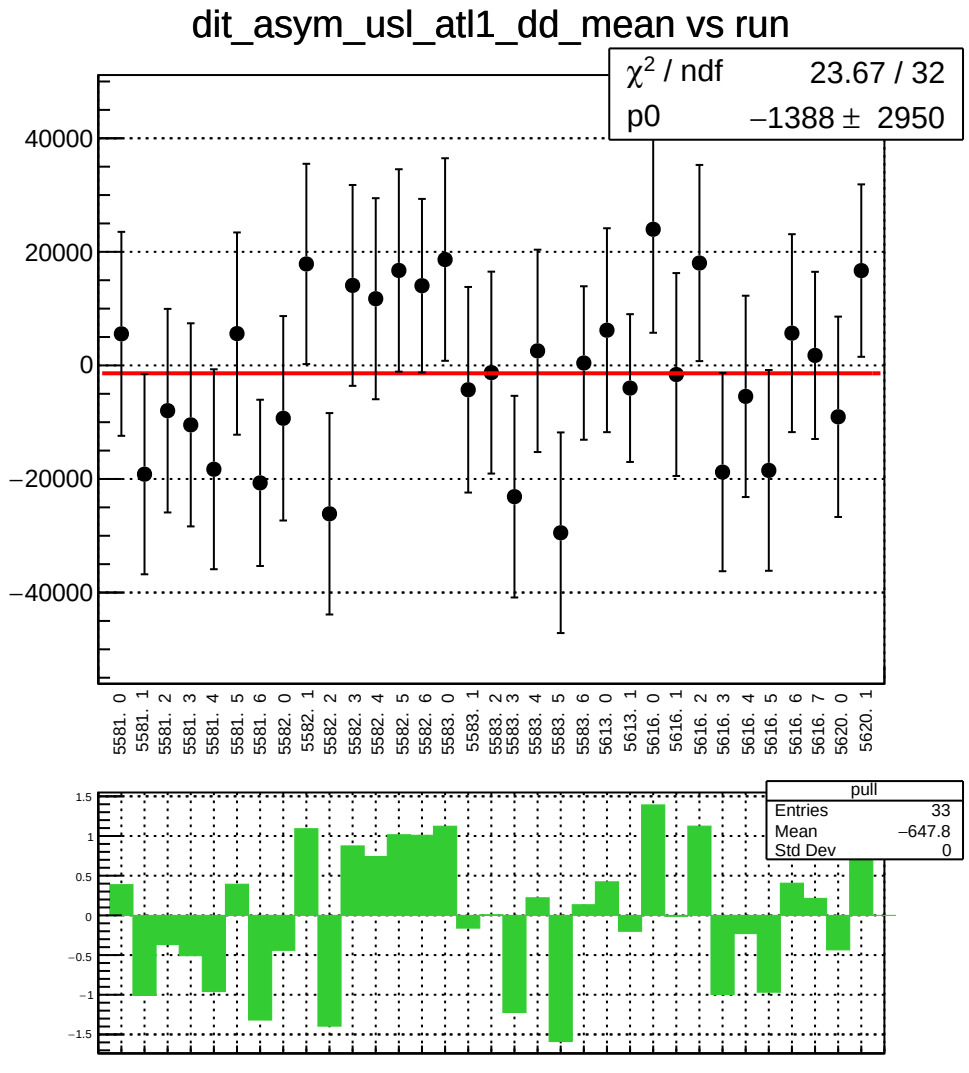

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 21.19 / 32
p0 −545 ± 3033
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 509.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

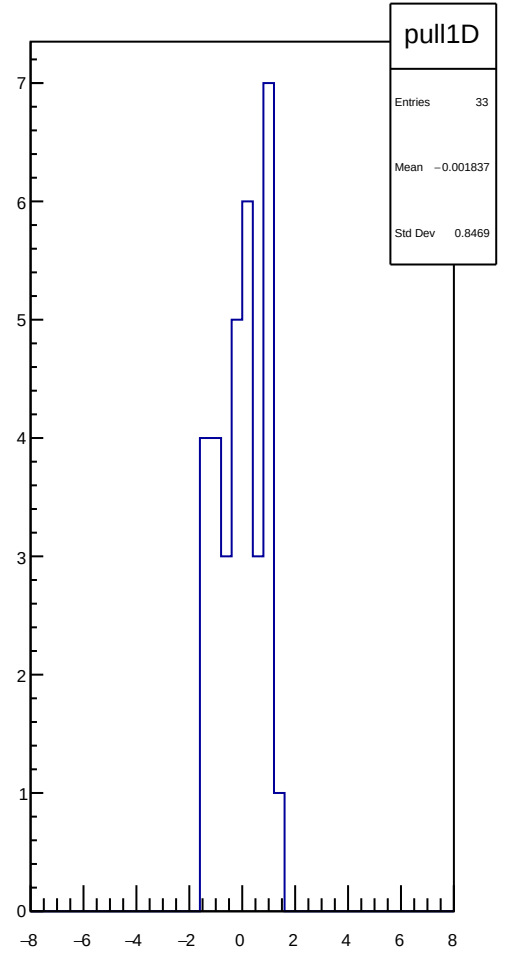

pull1D
Entries 33
Mean 0.003592
Std Dev 0.8013
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

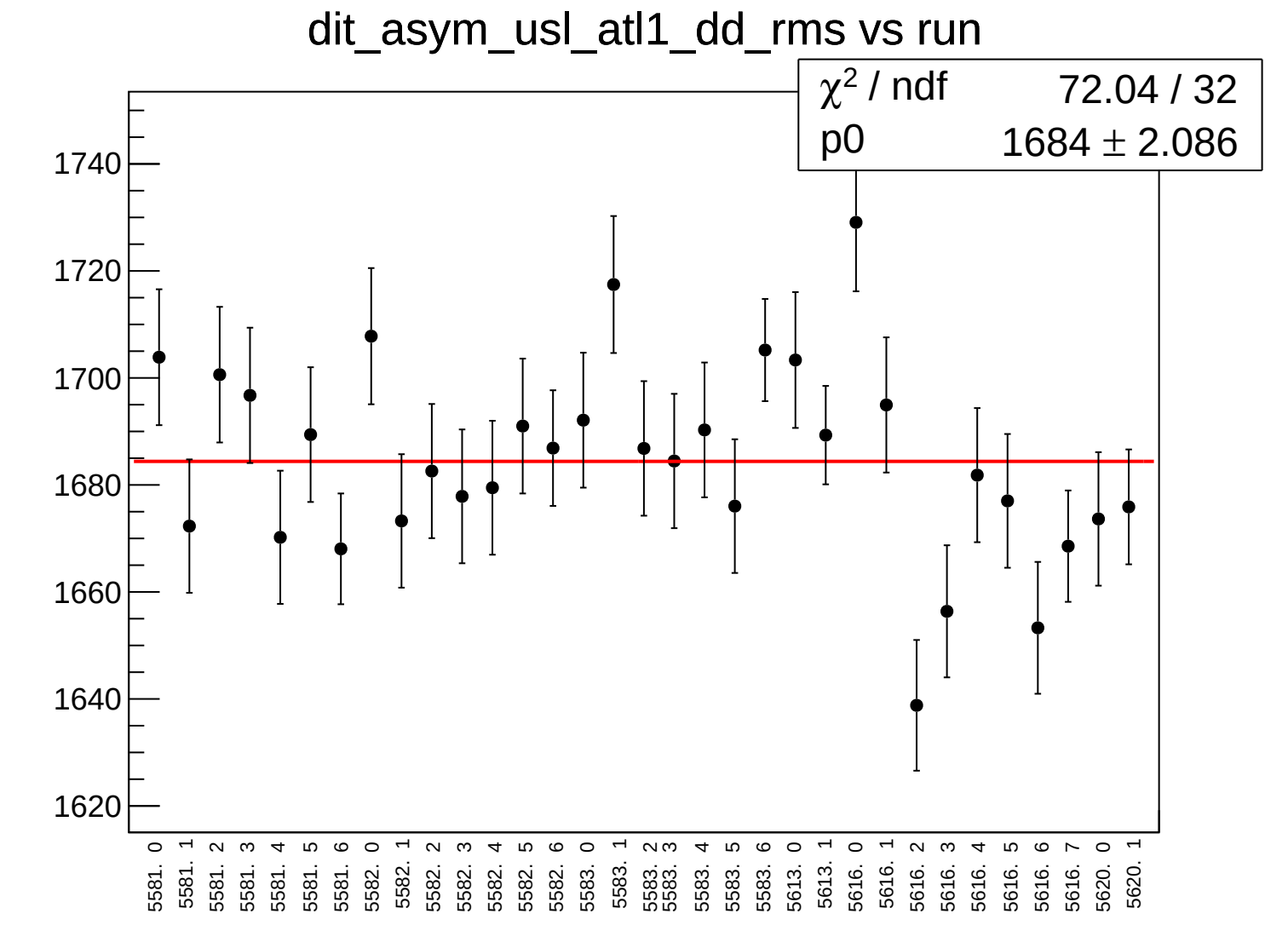

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 2361 / 32
p0 1728 ± 2.145
2000
1950
1900
1850
1800
1750
1700
1650
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

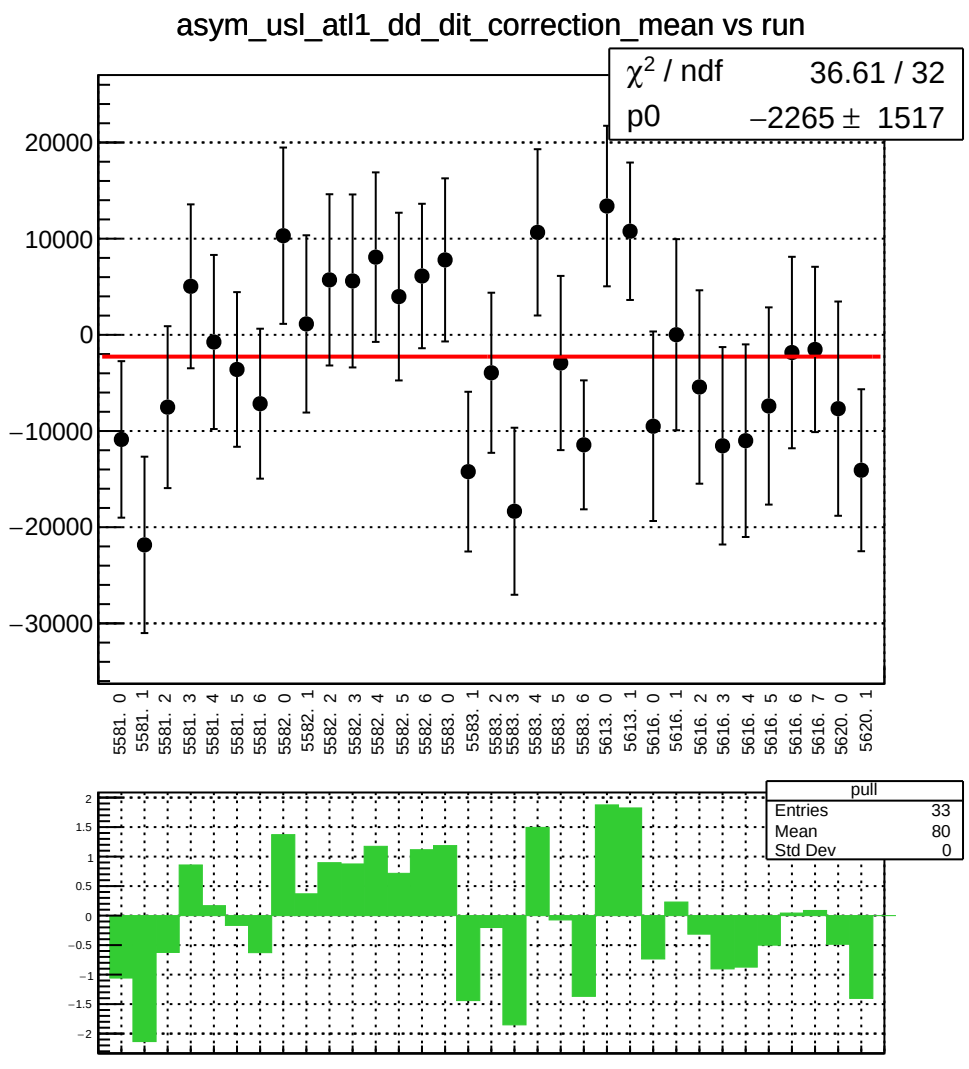

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 34.21 / 25
p0 −1814 ± 1619
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −5183
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −5.55e−05
Std Dev 1.147
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

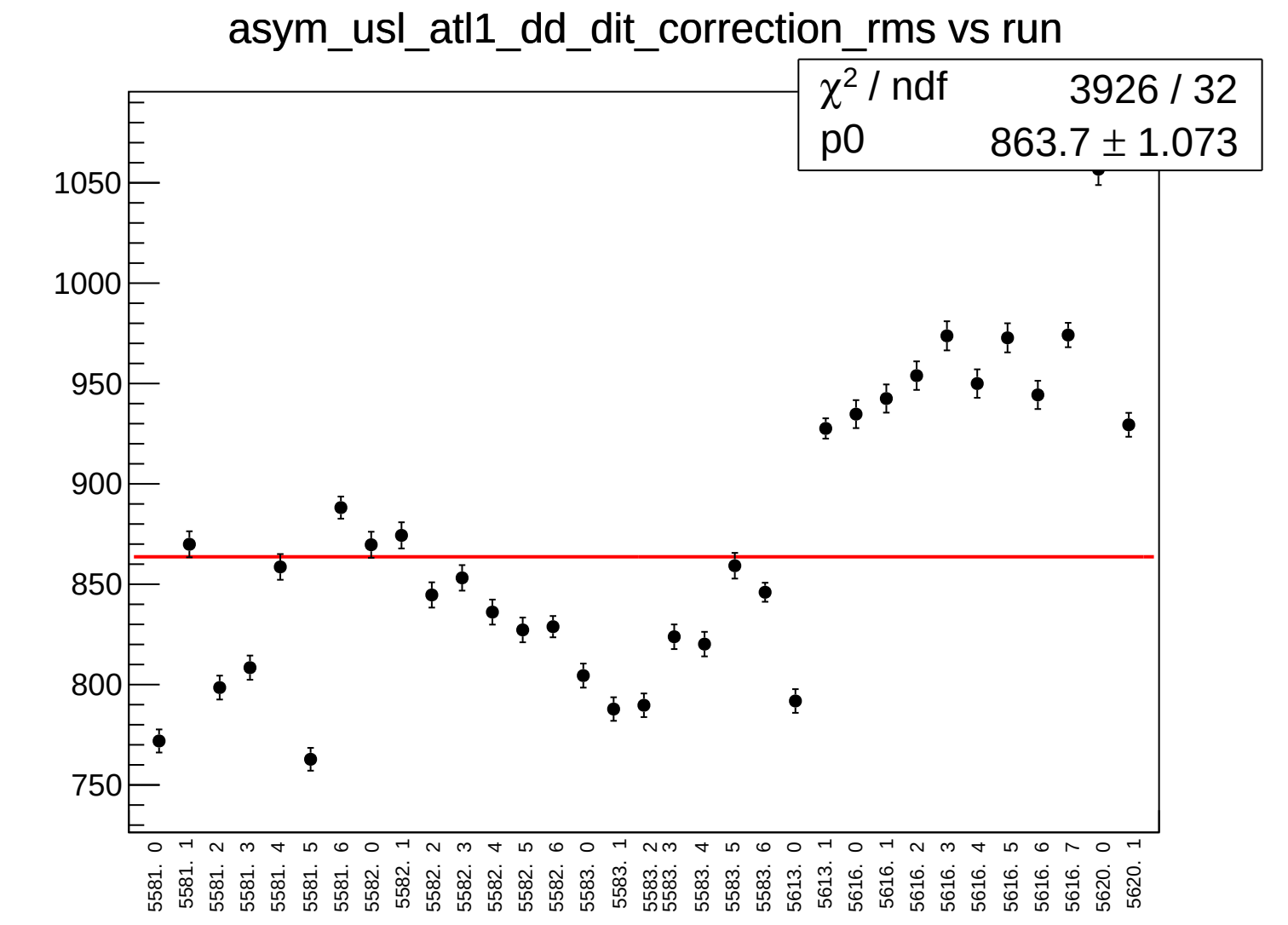

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 7260 / 25
p0 818.5 ± 1.145
1200
1100
1000
900
800
700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

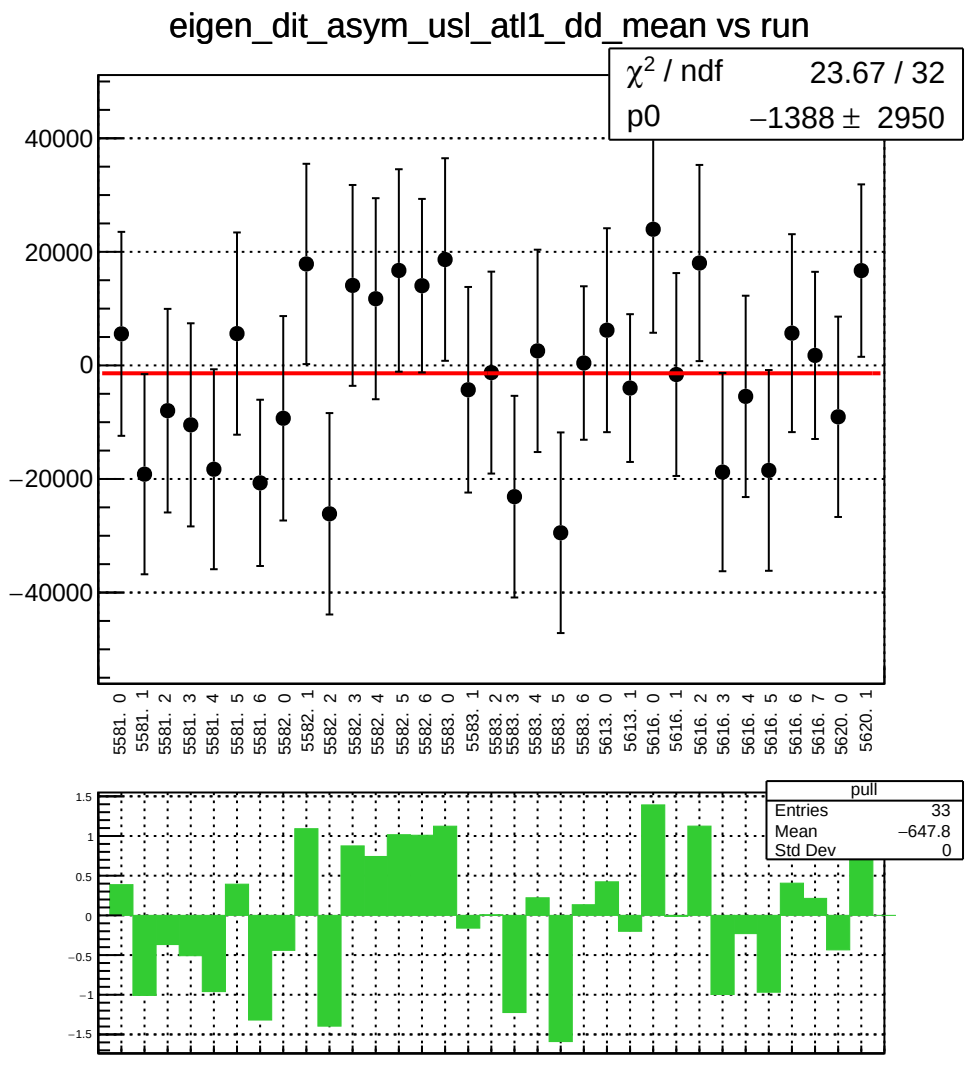

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 23.67 / 32
p0 −1388 ± 2950
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −647.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

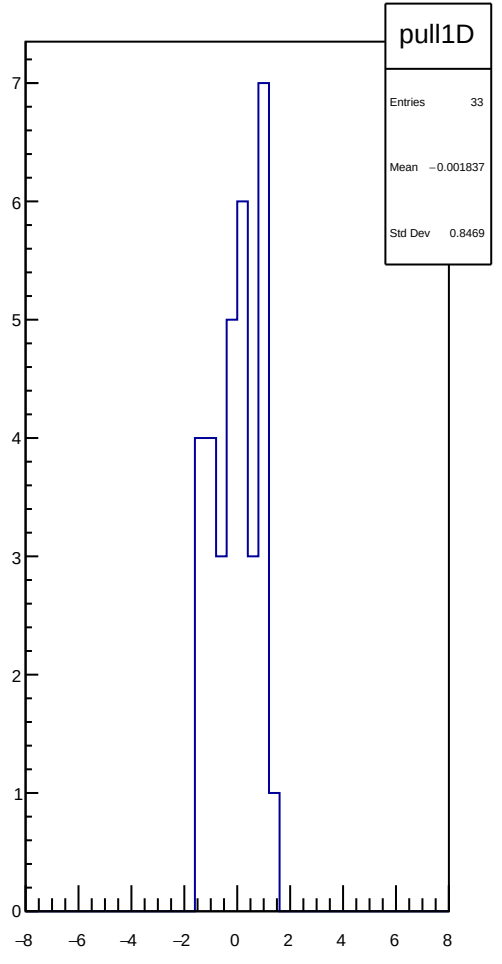

pull1D
Entries 33
Mean −0.001837
Std Dev 0.8469
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

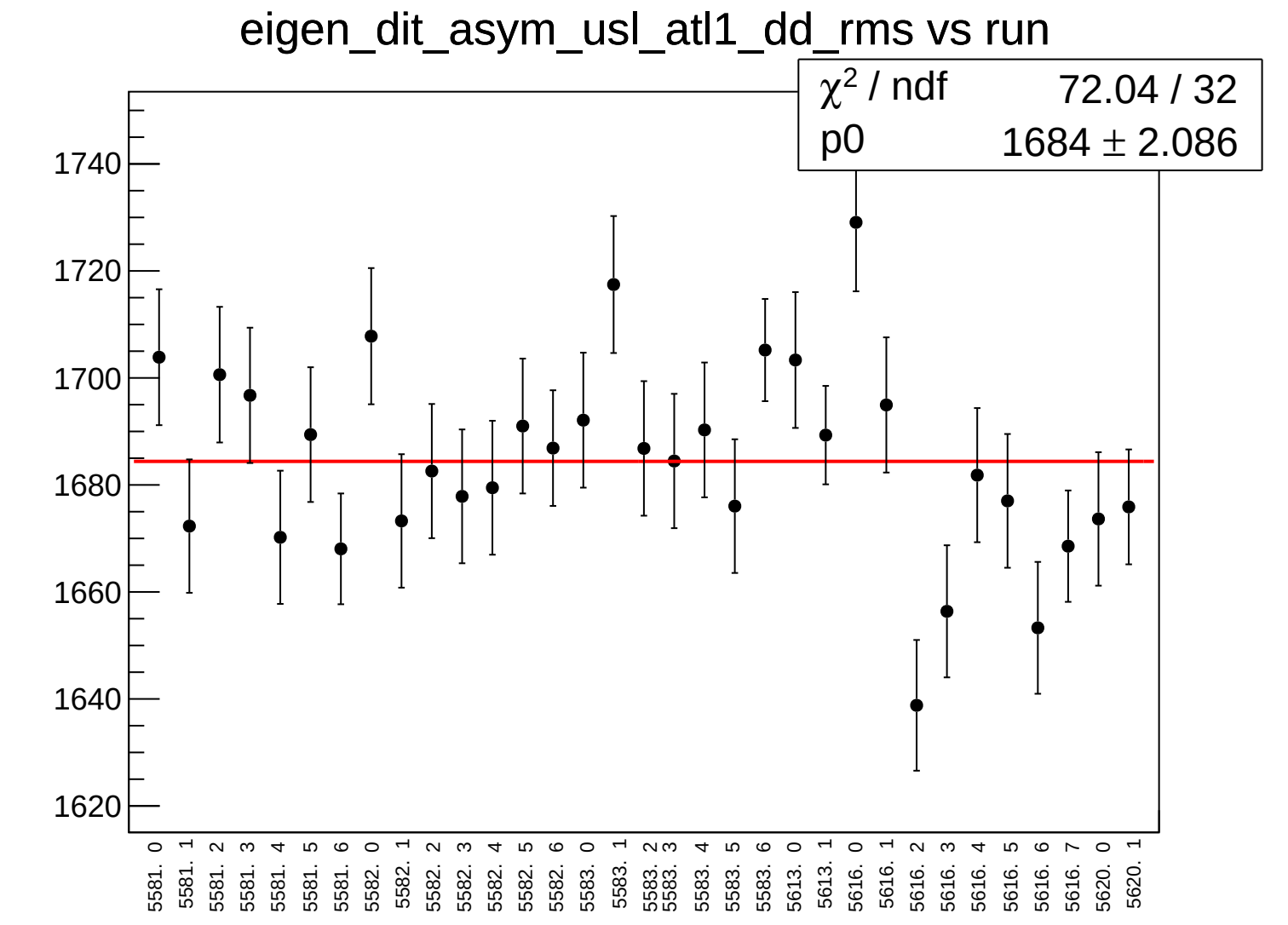

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 72.04 / 32
p0 1684 ± 2.086
1740
1720
1700
1680
1660
1640
1620
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

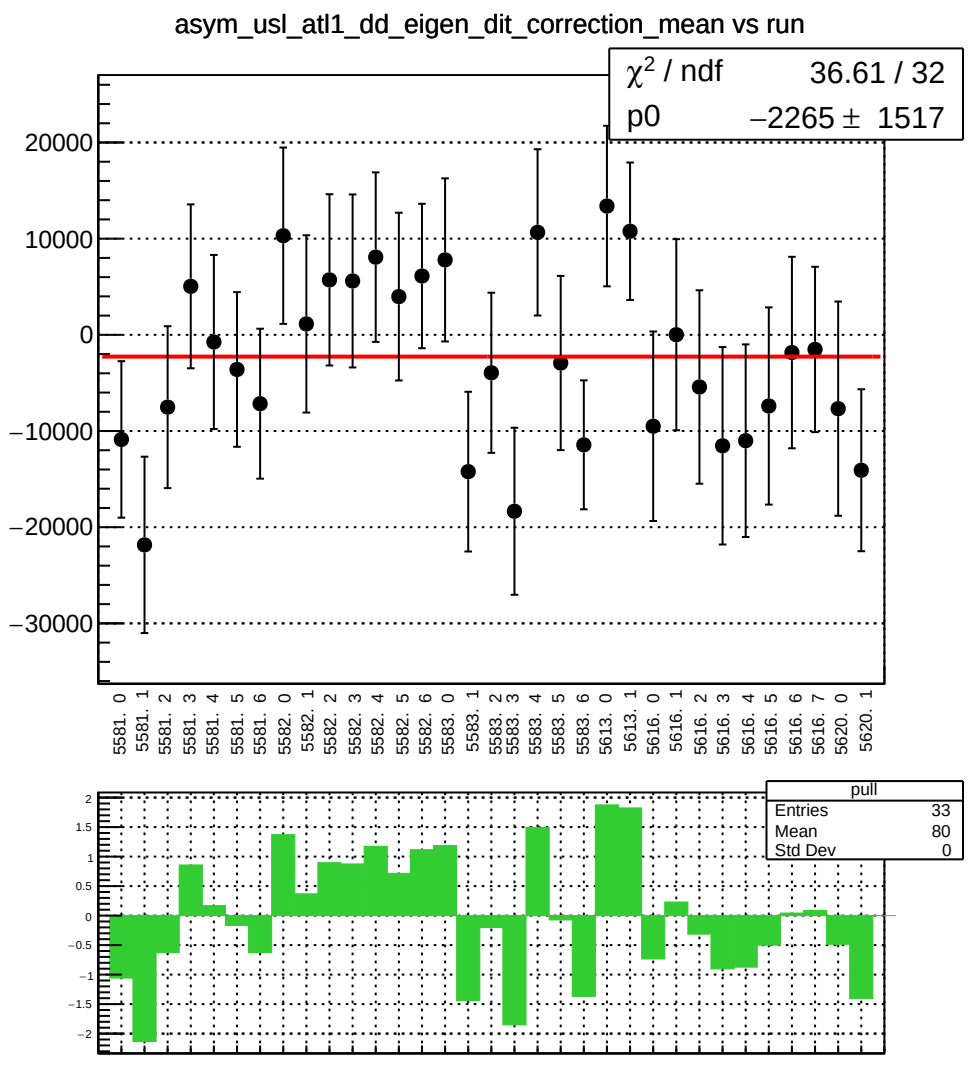

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 36.61 / 32
p0 −2265 ± 1517
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 80
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.0144
Std Dev 1.053
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

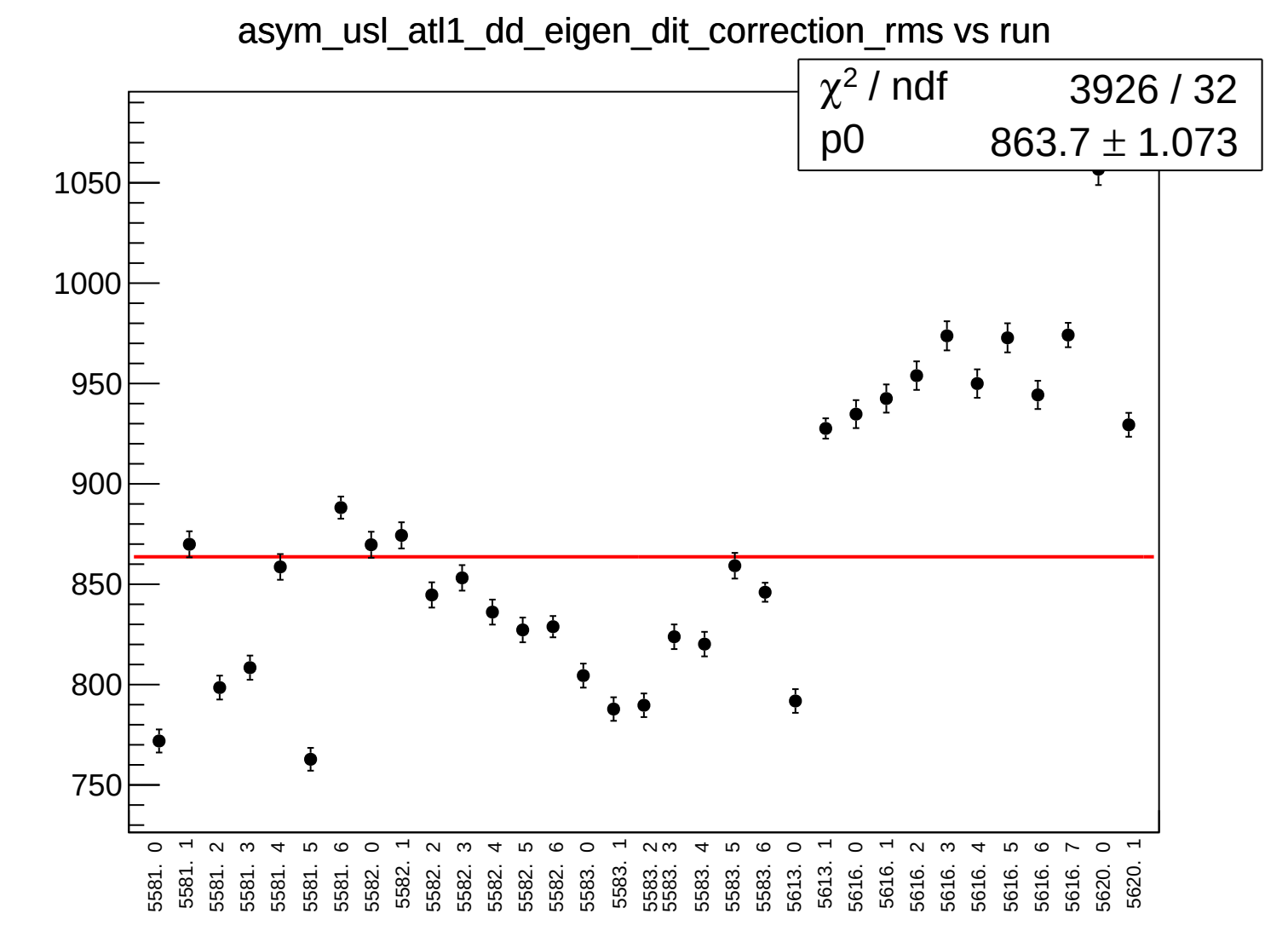

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 3926 / 32
p0 863.7 ± 1.073
1050
1000
950
900
850
800
750
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

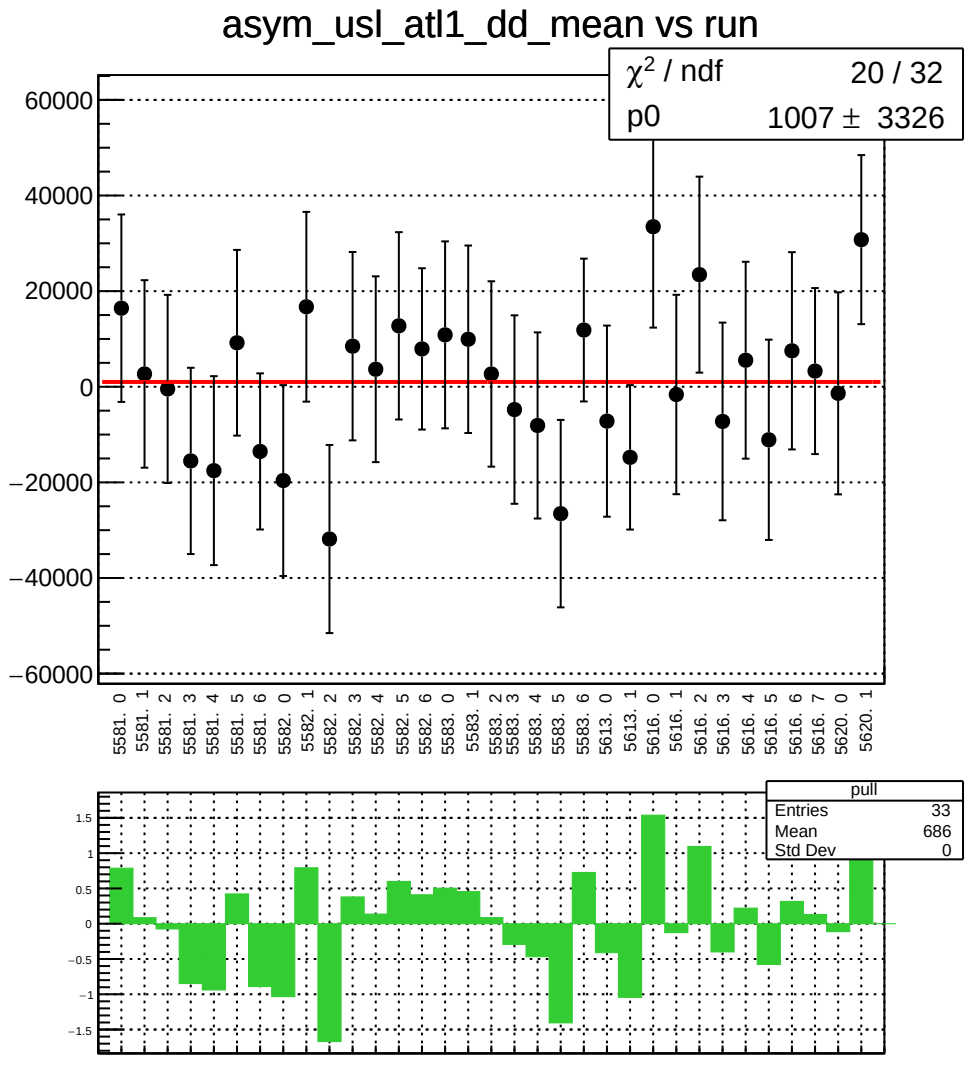

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 23.67 / 32
p0 −1388 ± 2950
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −647.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

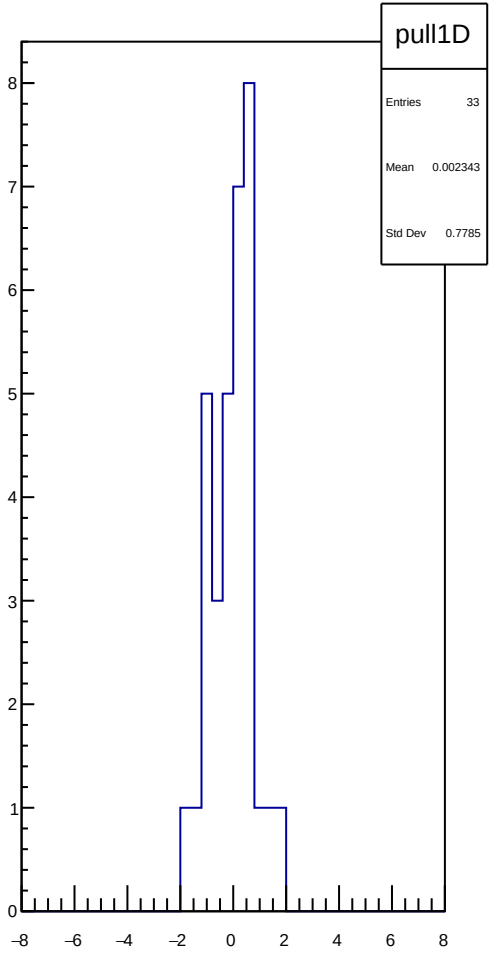

pull1D
Entries 33
Mean −0.001837
Std Dev 0.8469
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

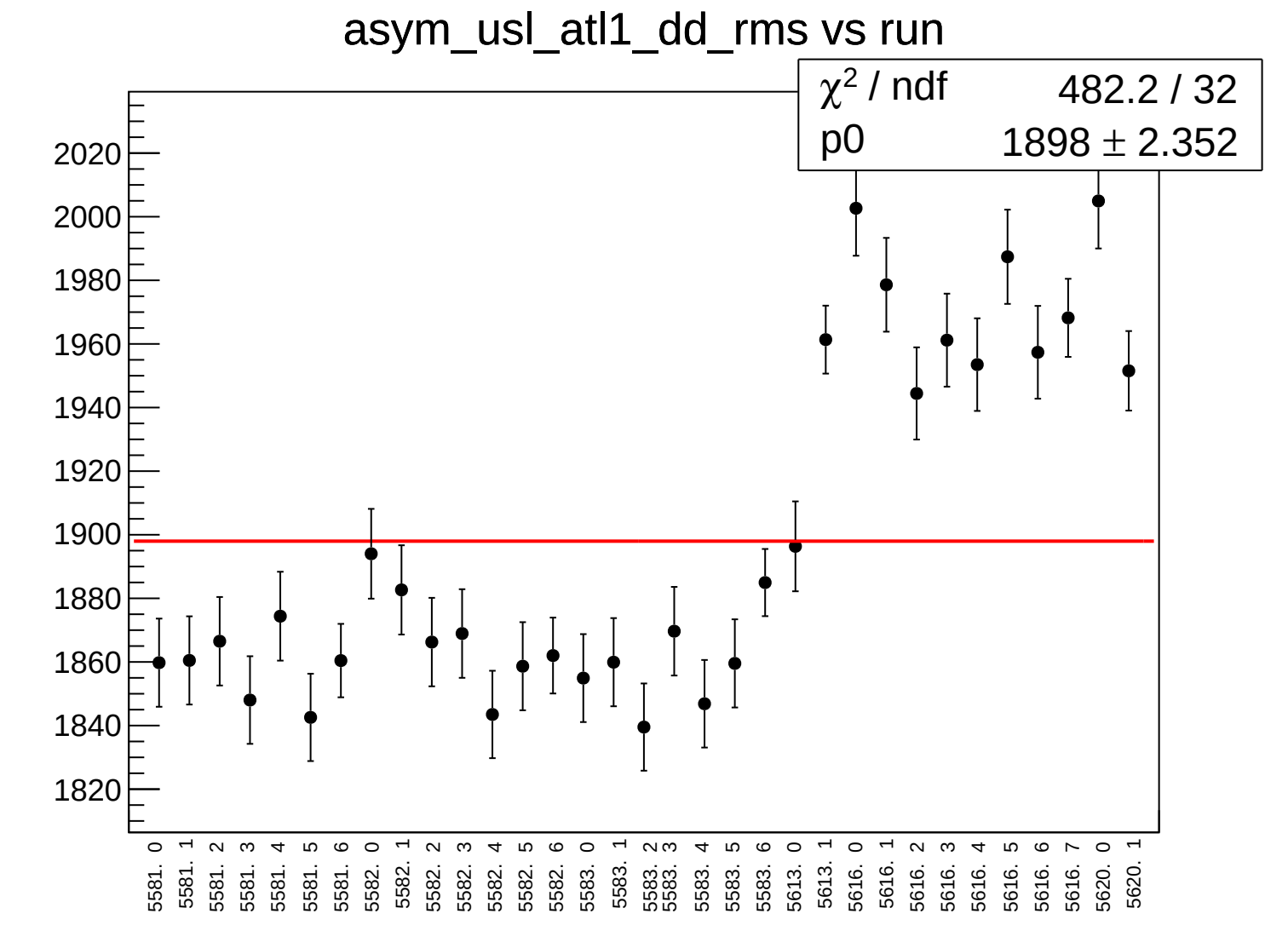

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 72.04 / 32
p0 1684 ± 2.086
1740
1720
1700
1680
1660
1640
1620
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

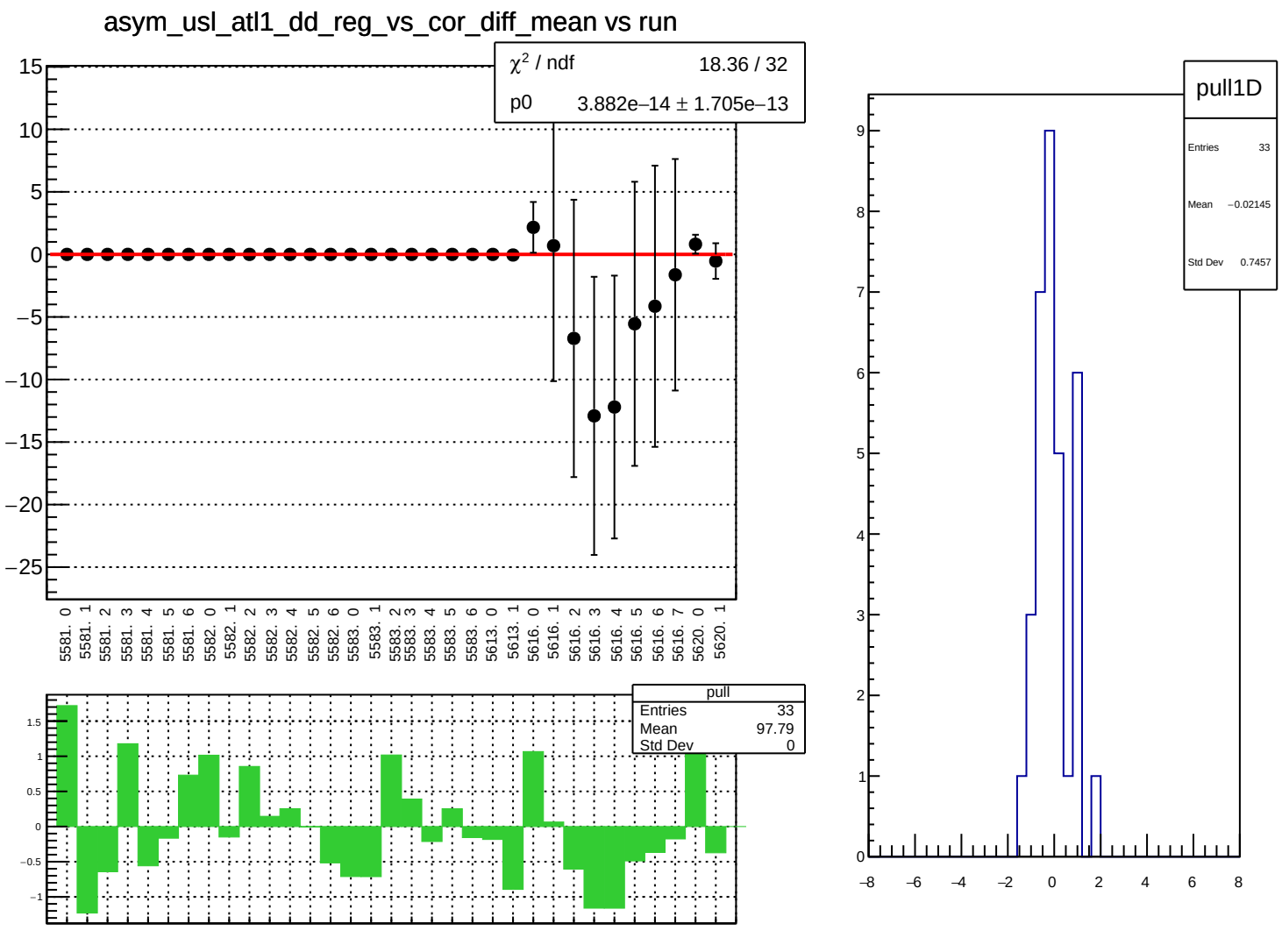

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 36.61 / 32
p0 −2265 ± 1517
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 80
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.0144
Std Dev 1.053
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

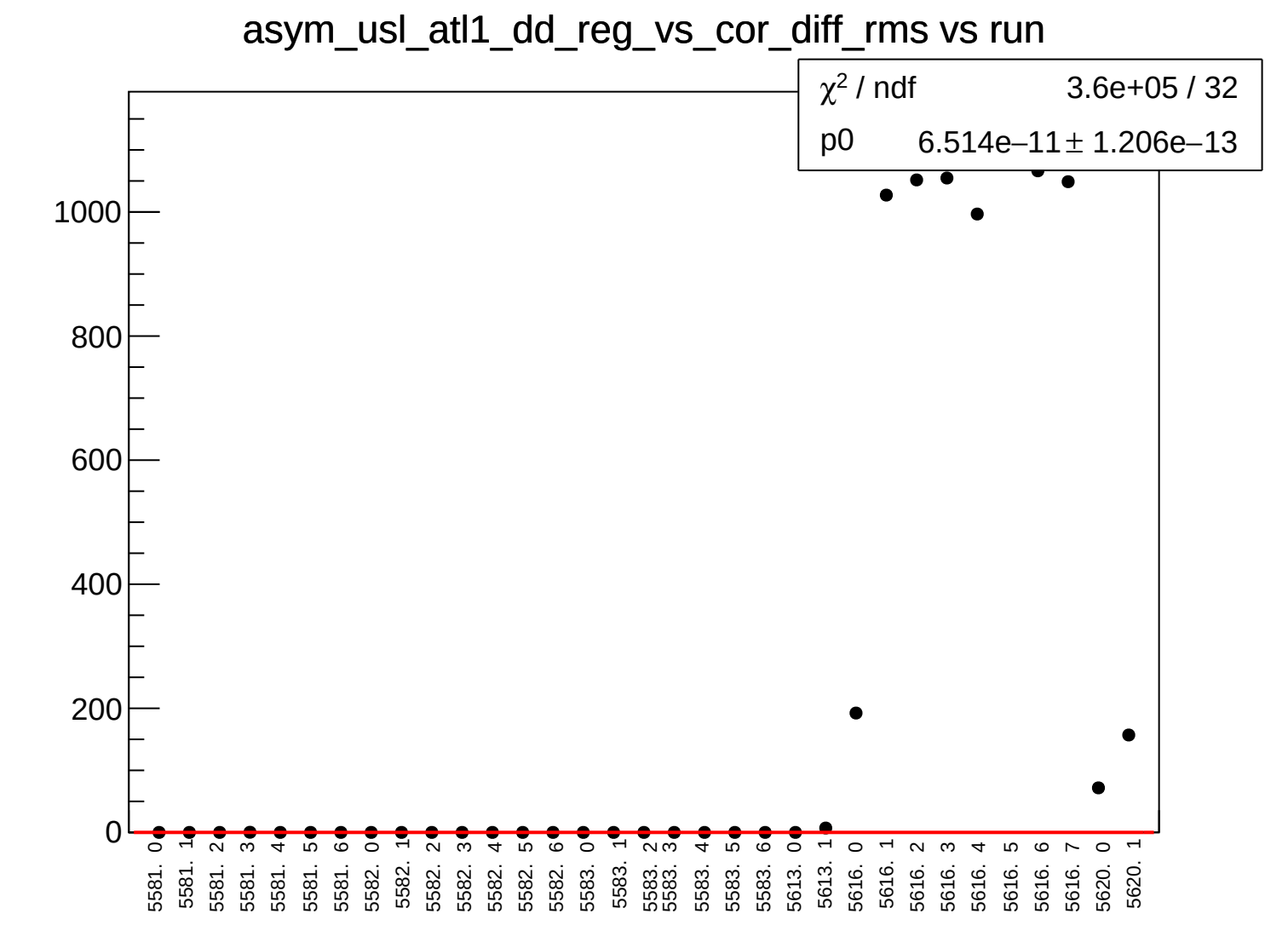

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3926 / 32
p0 863.7 ± 1.073
1050
1000
950
900
850
800
750
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

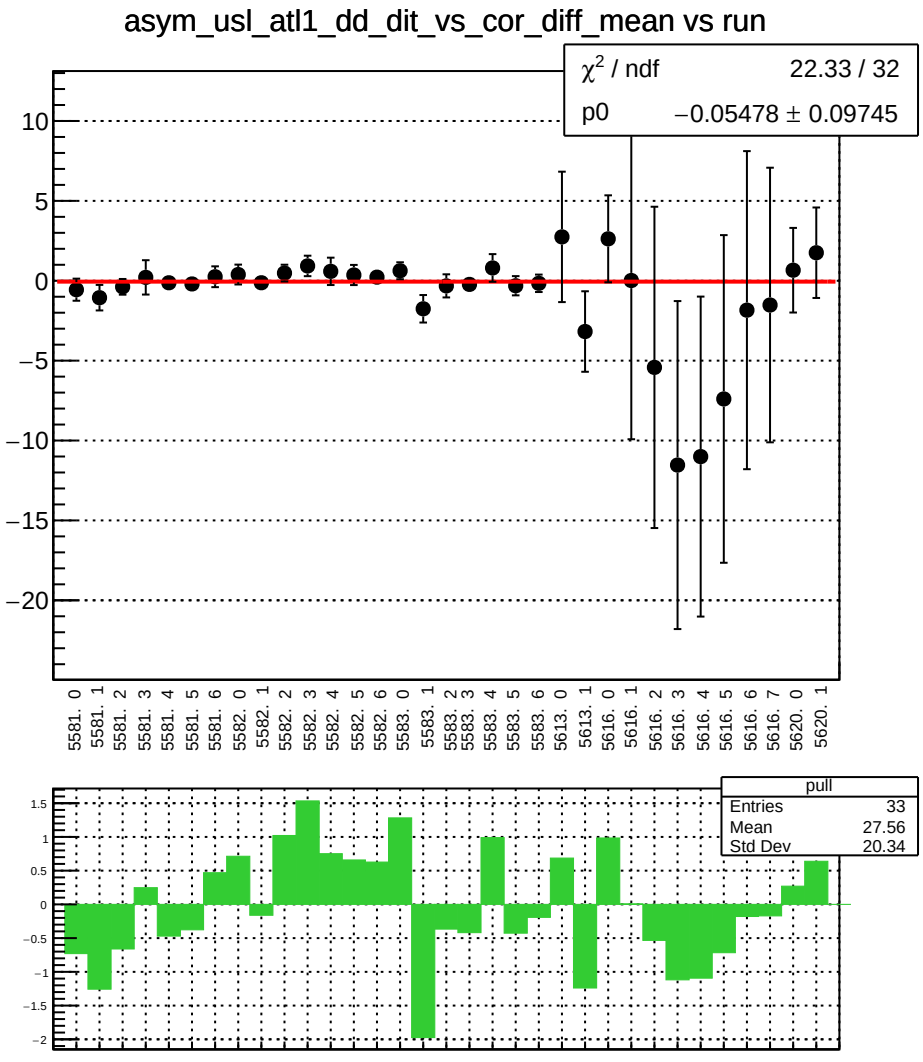

asym_usl_atl1_dd_mean vs run
χ² / ndf 20 / 32
p0 1007 ± 3326
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 686
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

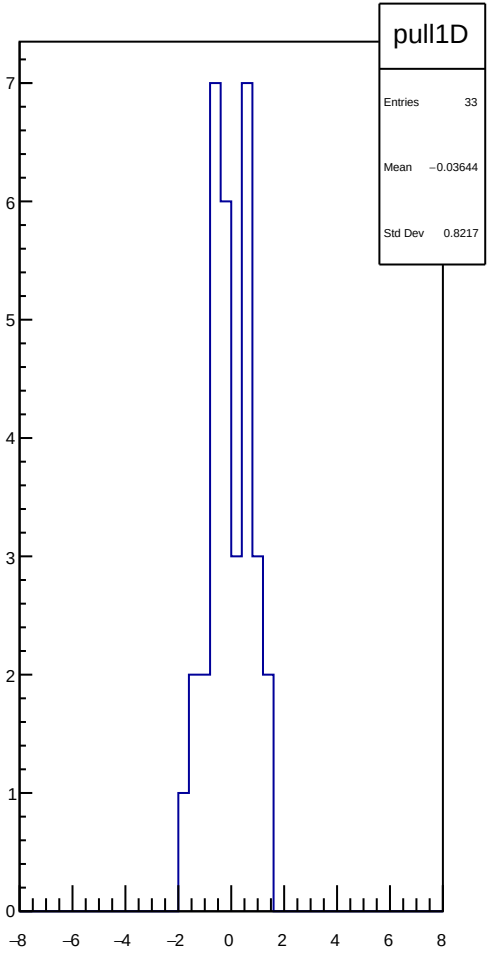

pull1D
Entries 33
Mean 0.002343
Std Dev 0.7785
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

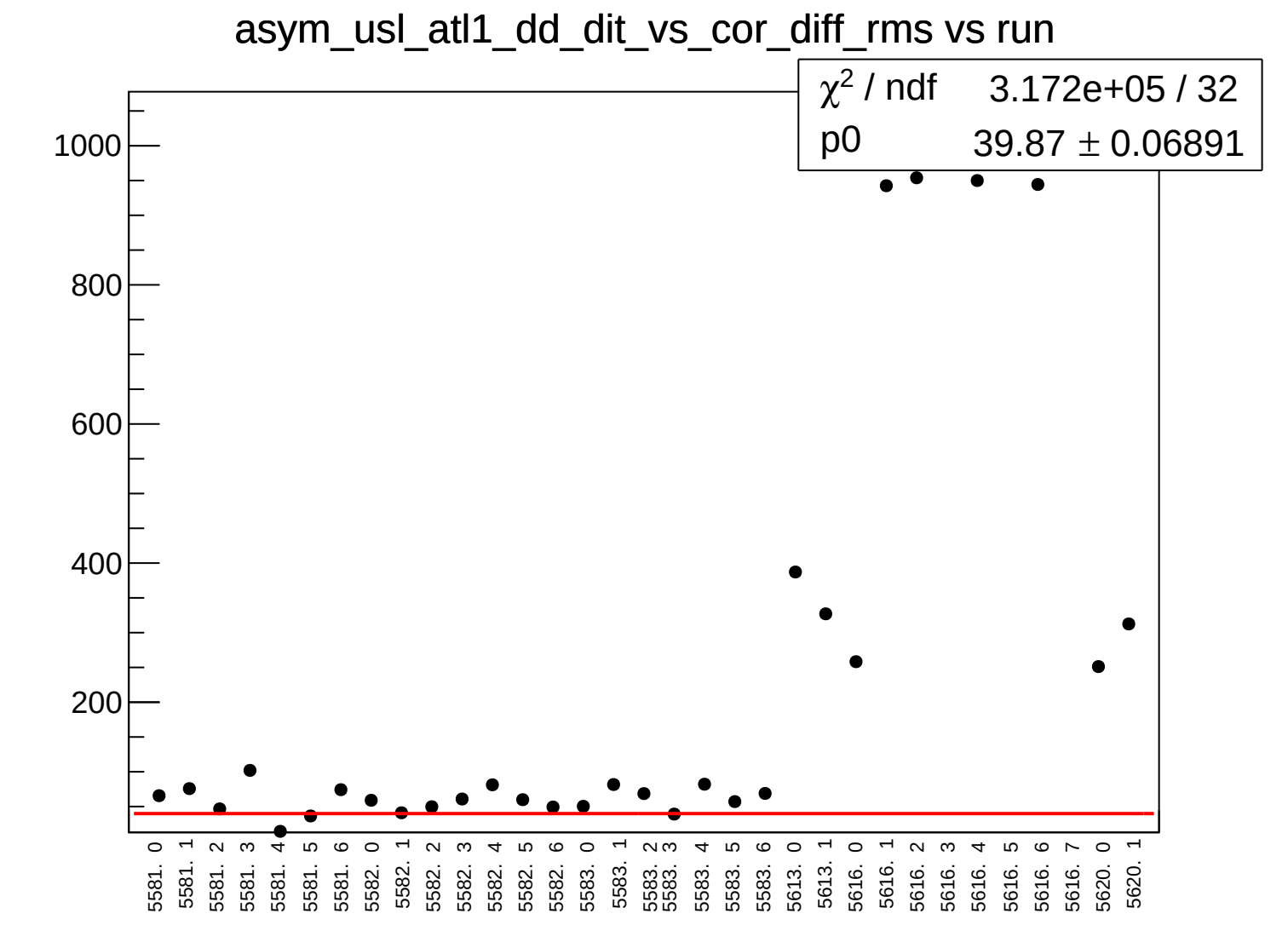

asym_usl_atl1_dd_rms vs run
χ² / ndf 482.2 / 32
p0 1898 ± 2.352
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

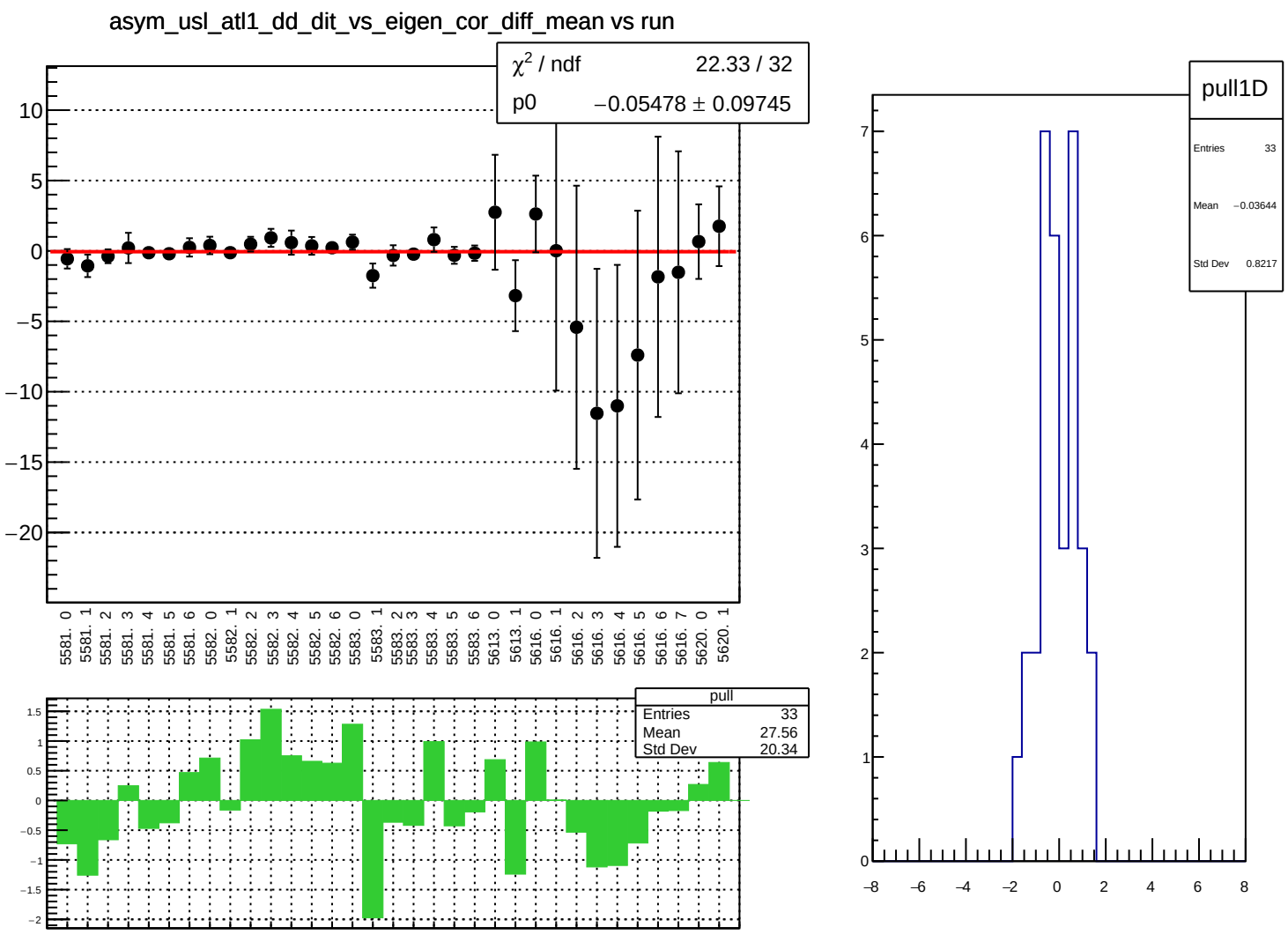

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 18.36 / 32
p0 3.882e−14 ± 1.705e−13
15
10
5
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 97.79
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.02145
Std Dev 0.7457
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

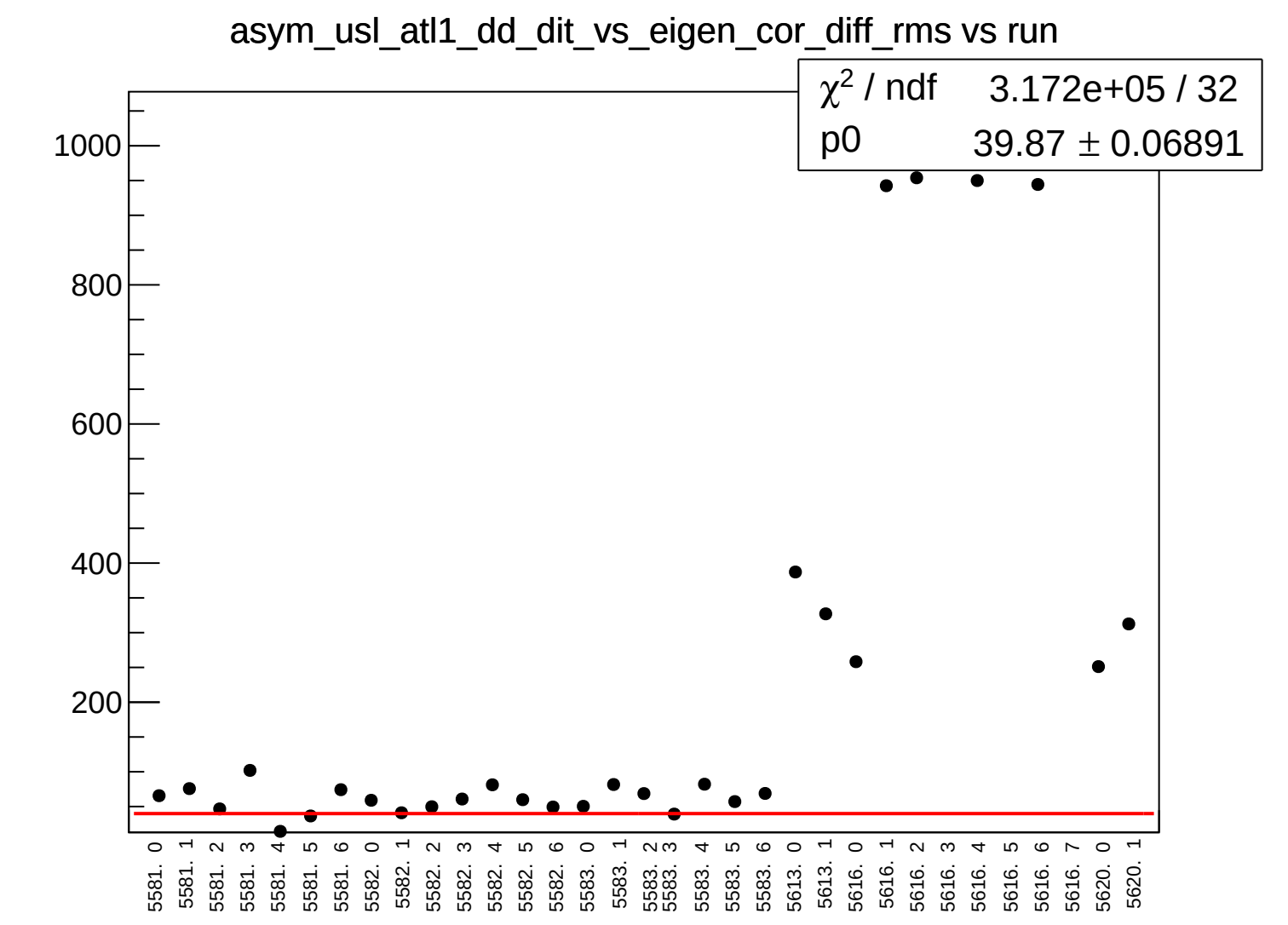

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.6e+05 / 32
p0 6.514e−11 ± 1.206e−13
0
200
400
600
800
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

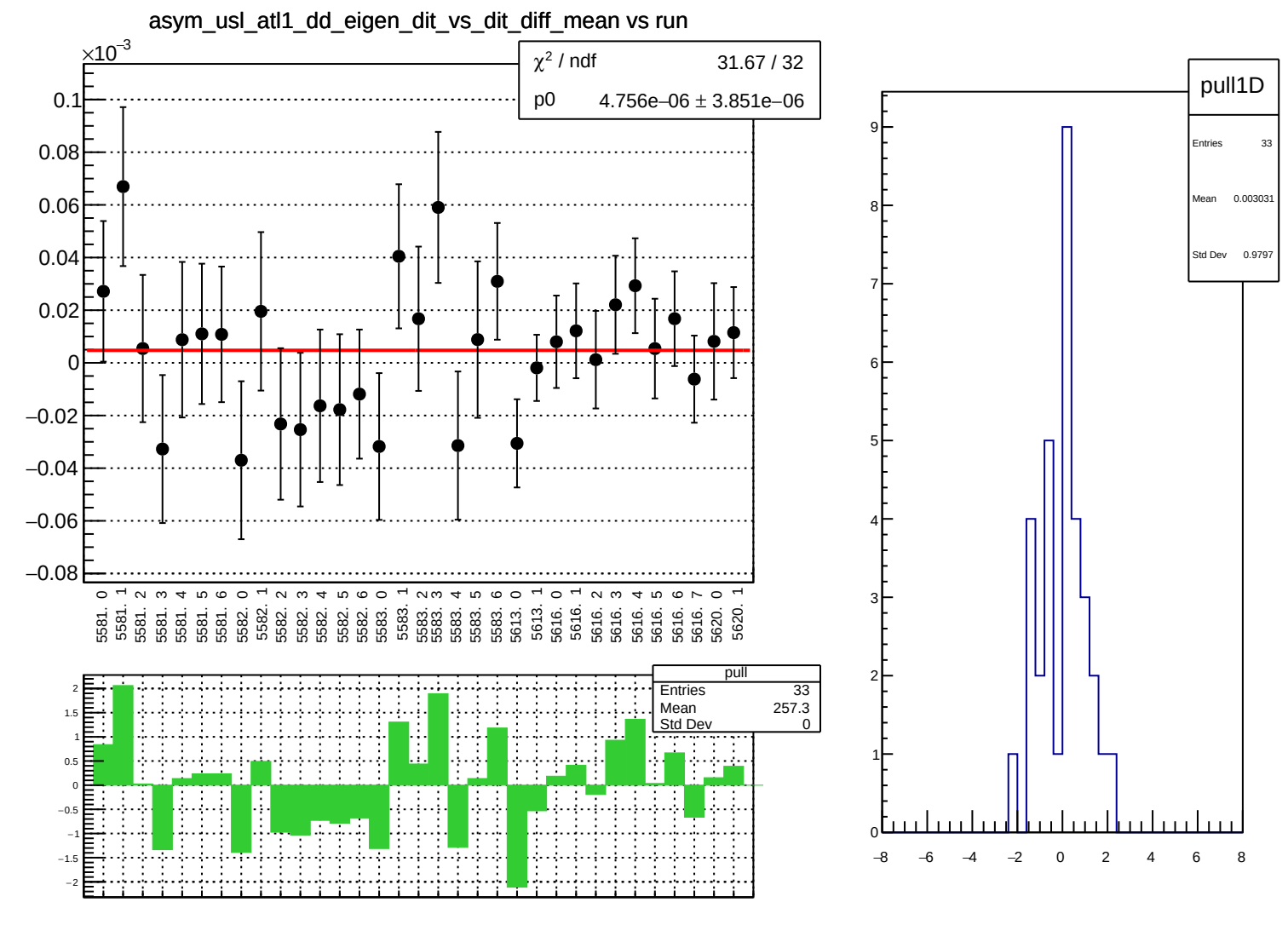

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 22.33 / 32
p0 −0.05478 ± 0.09745
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.56
Std Dev 20.34
1.5
1
0.5
0
−0.5
−1
−1.5
−2

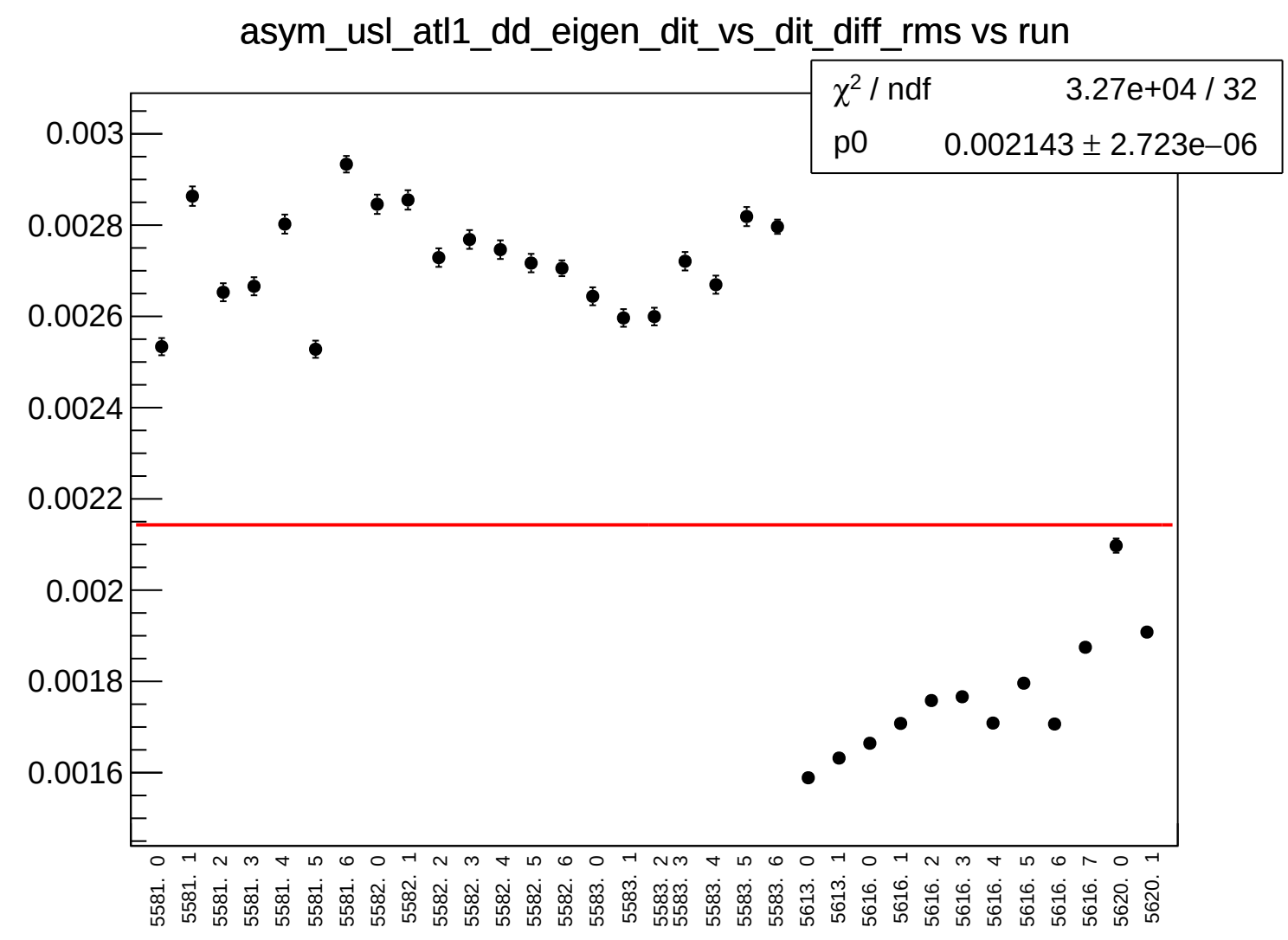

pull1D
Entries 33
Mean −0.03644
Std Dev 0.8217
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

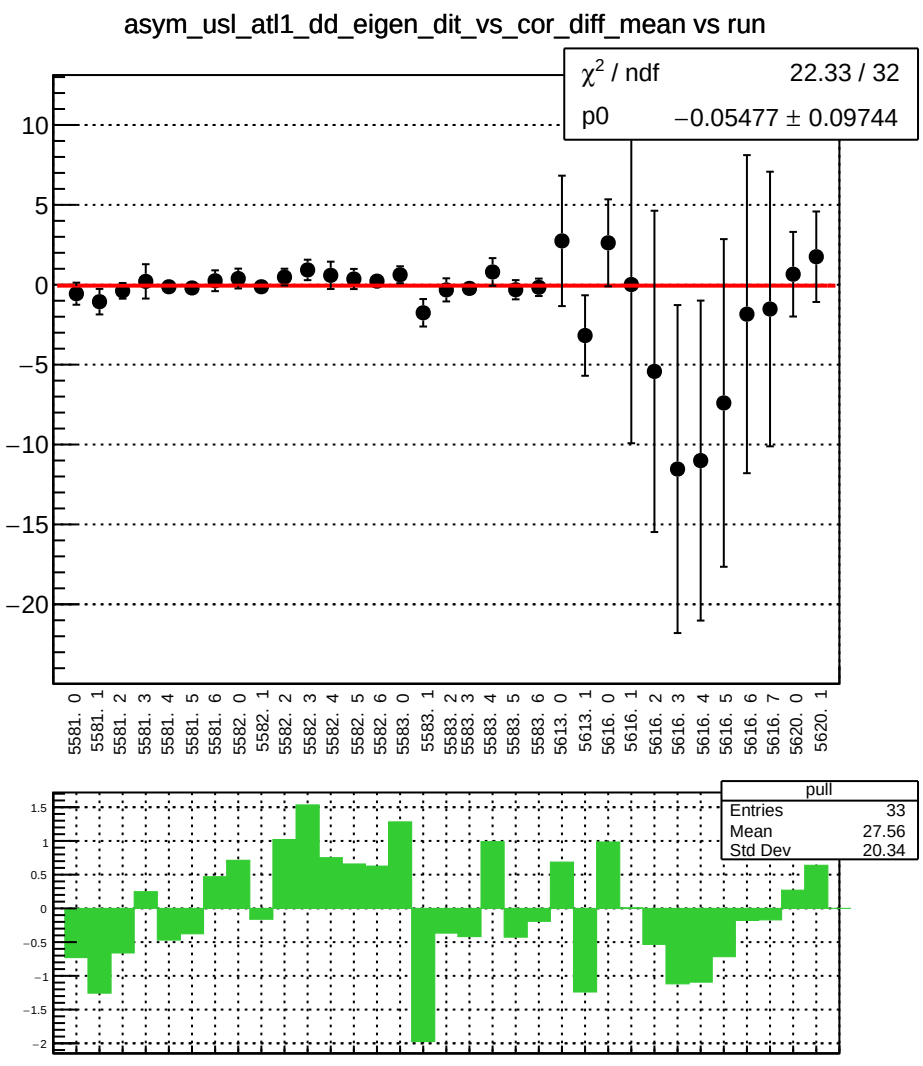

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.172e+05 / 32
p0 39.87 ± 0.06891
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

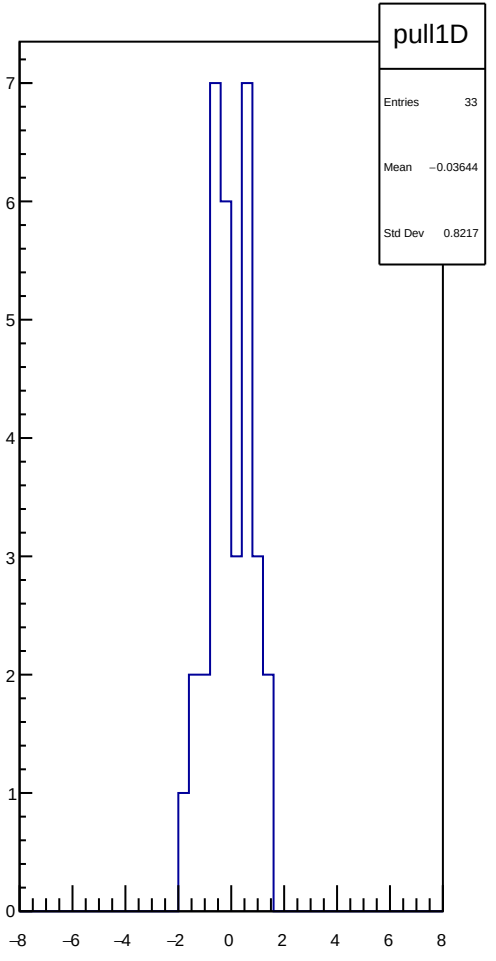

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.33 / 32
p0 −0.05478 ± 0.09745
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.56
Std Dev 20.34
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.03644
Std Dev 0.8217
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

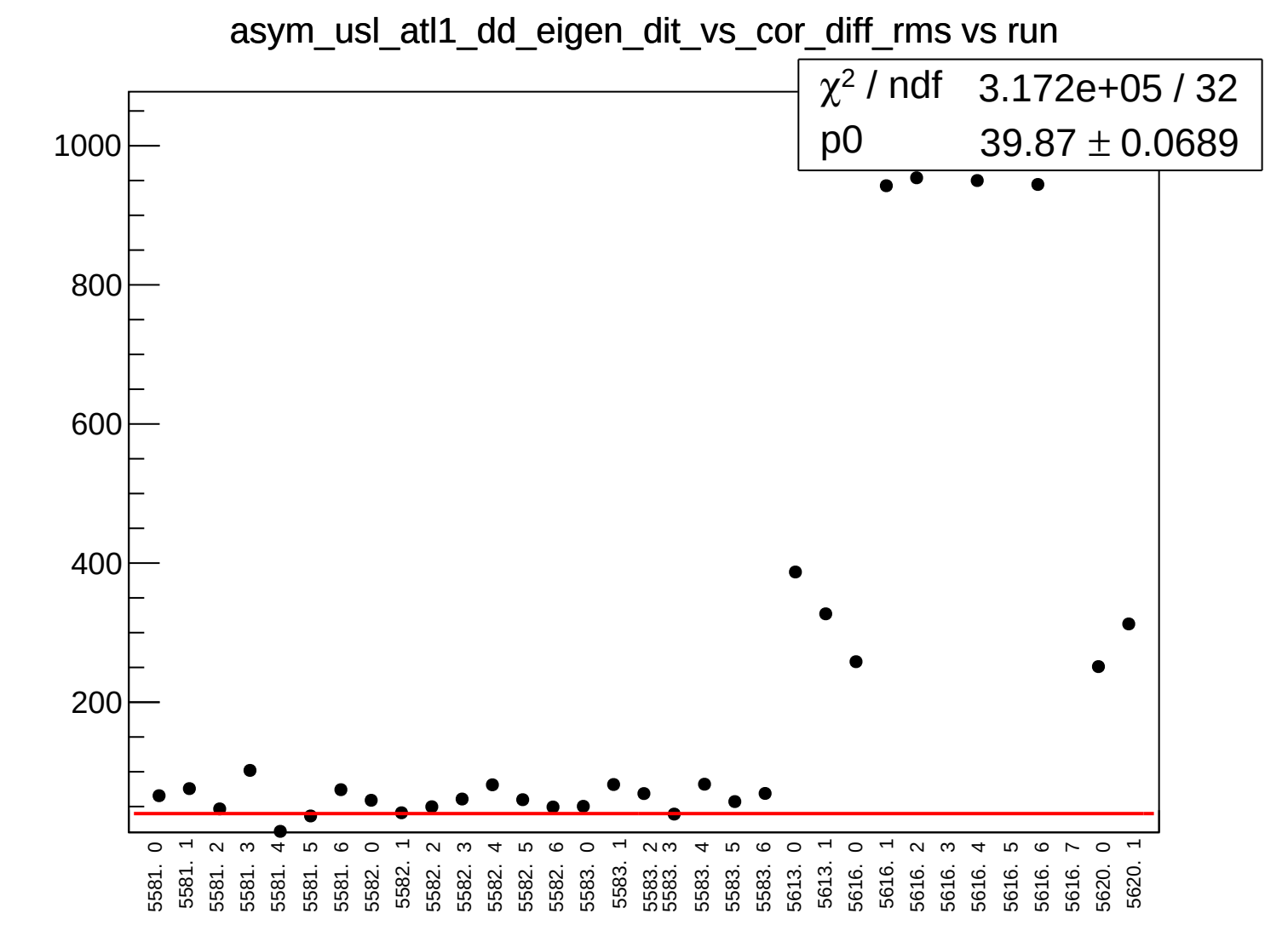

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.172e+05 / 32
p0 39.87 ± 0.06891
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

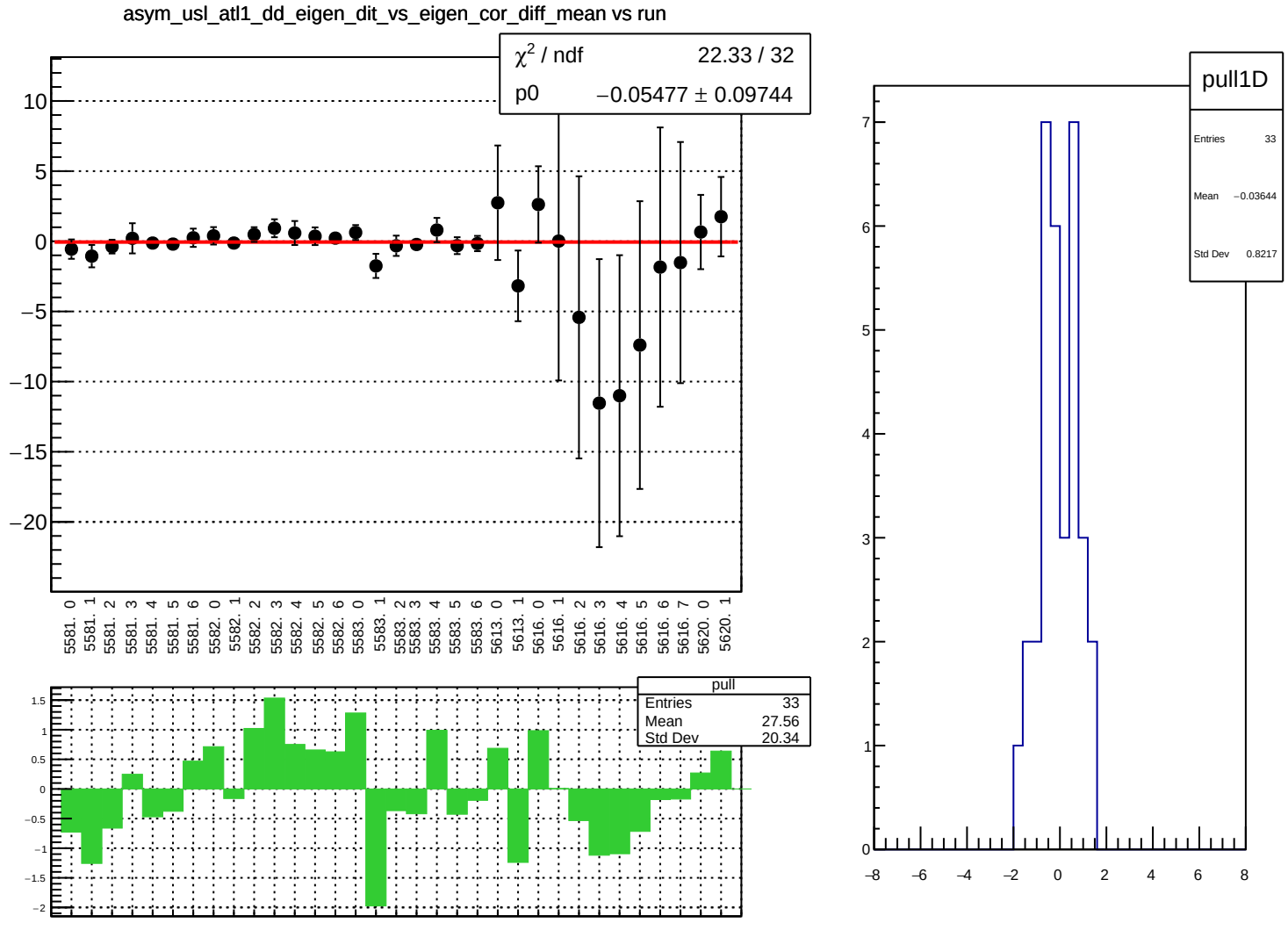

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 31.67 / 32
p0 4.756e−06 ± 3.851e−06
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 257.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.003031
Std Dev 0.9797
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

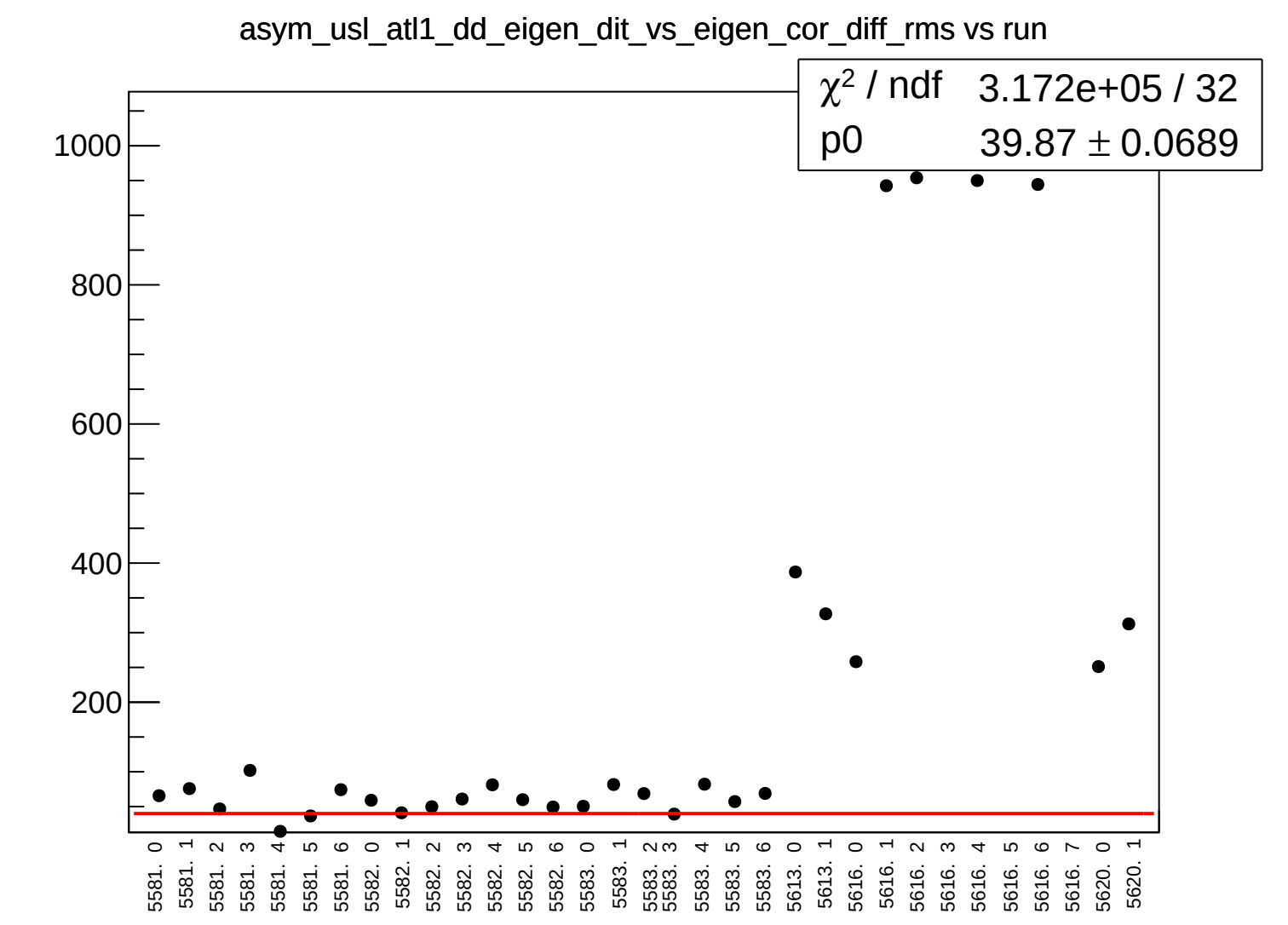

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.27e+04 / 32
p0 0.002143 ± 2.723e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

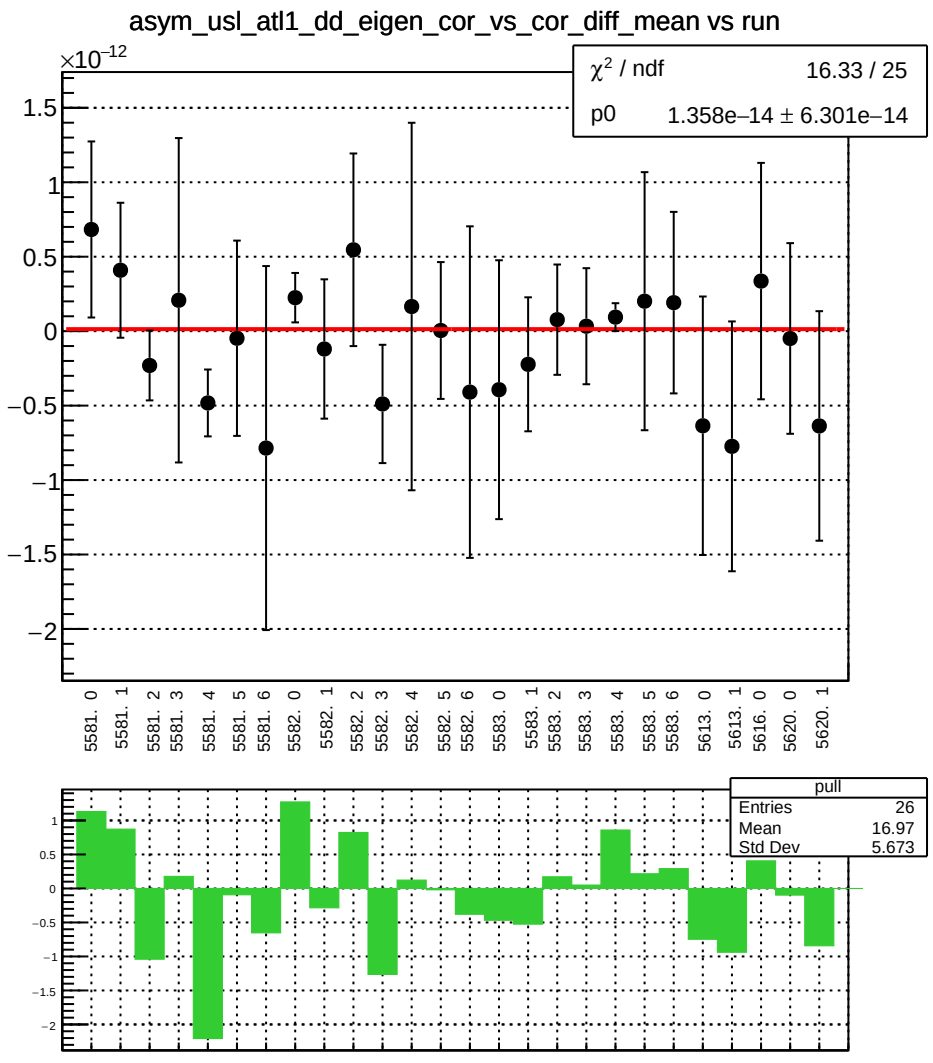

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.33 / 32
p0 −0.05477 ± 0.09744
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.56
Std Dev 20.34
1.5
1
0.5
0
−0.5
−1
−1.5
−2

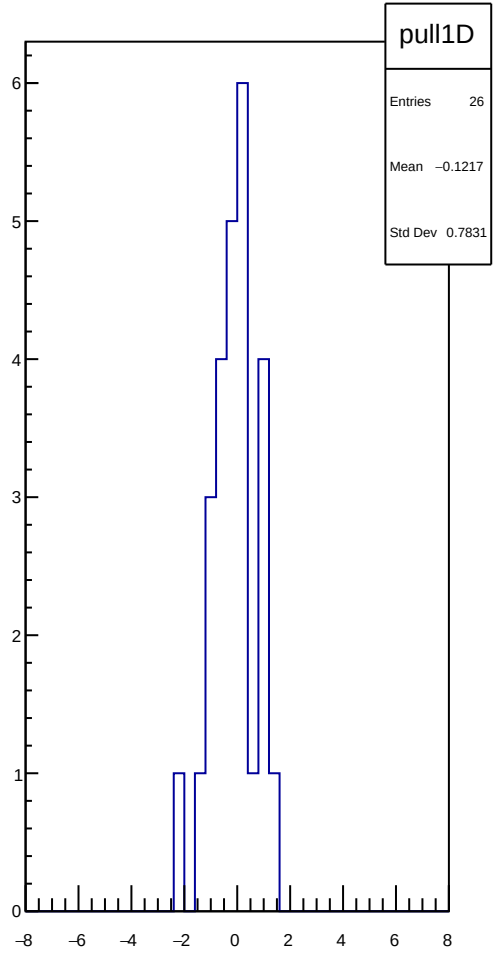

pull1D
Entries 33
Mean −0.03644
Std Dev 0.8217
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

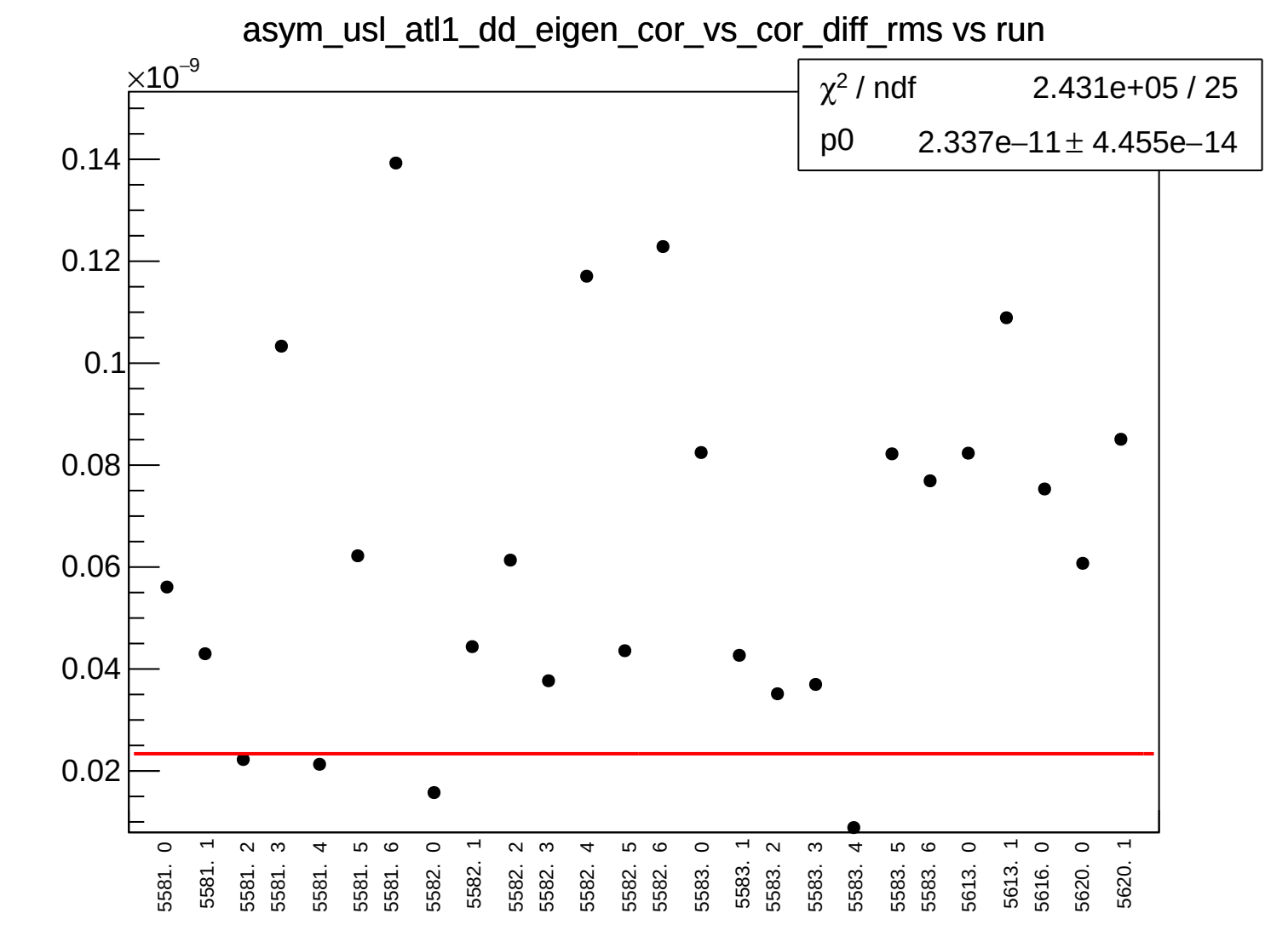

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.172e+05 / 32
p0 39.87 ± 0.0689
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

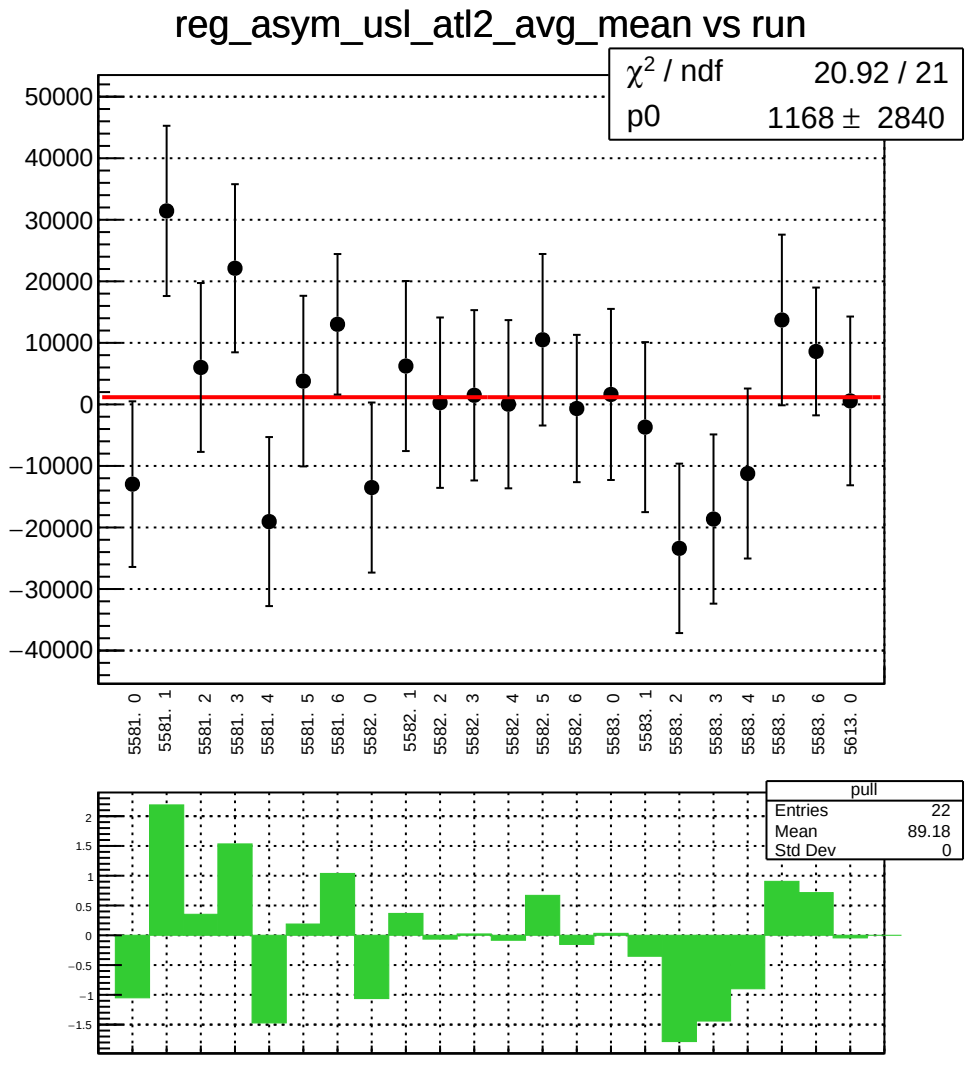

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.33 / 32
p0 −0.05477 ± 0.09744
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.56
Std Dev 20.34
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.03644
Std Dev 0.8217
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

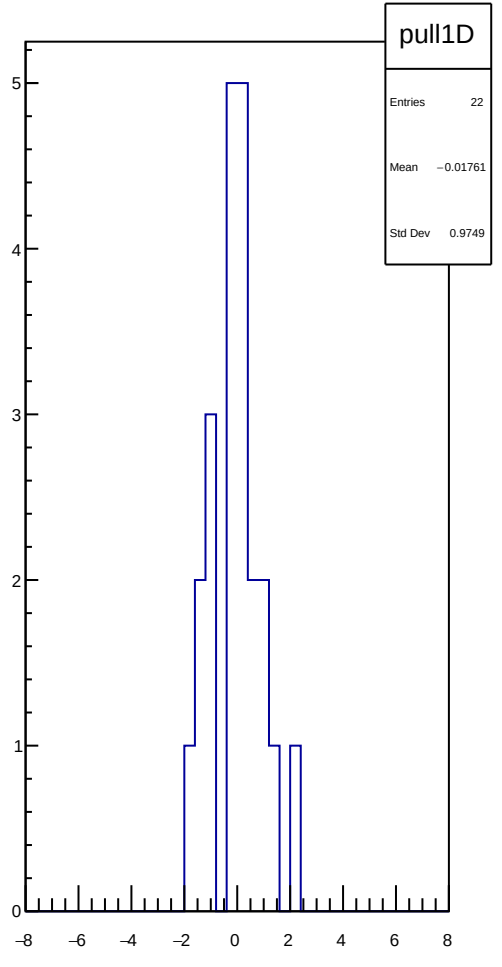

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.172e+05 / 32
p0 39.87 ± 0.0689
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

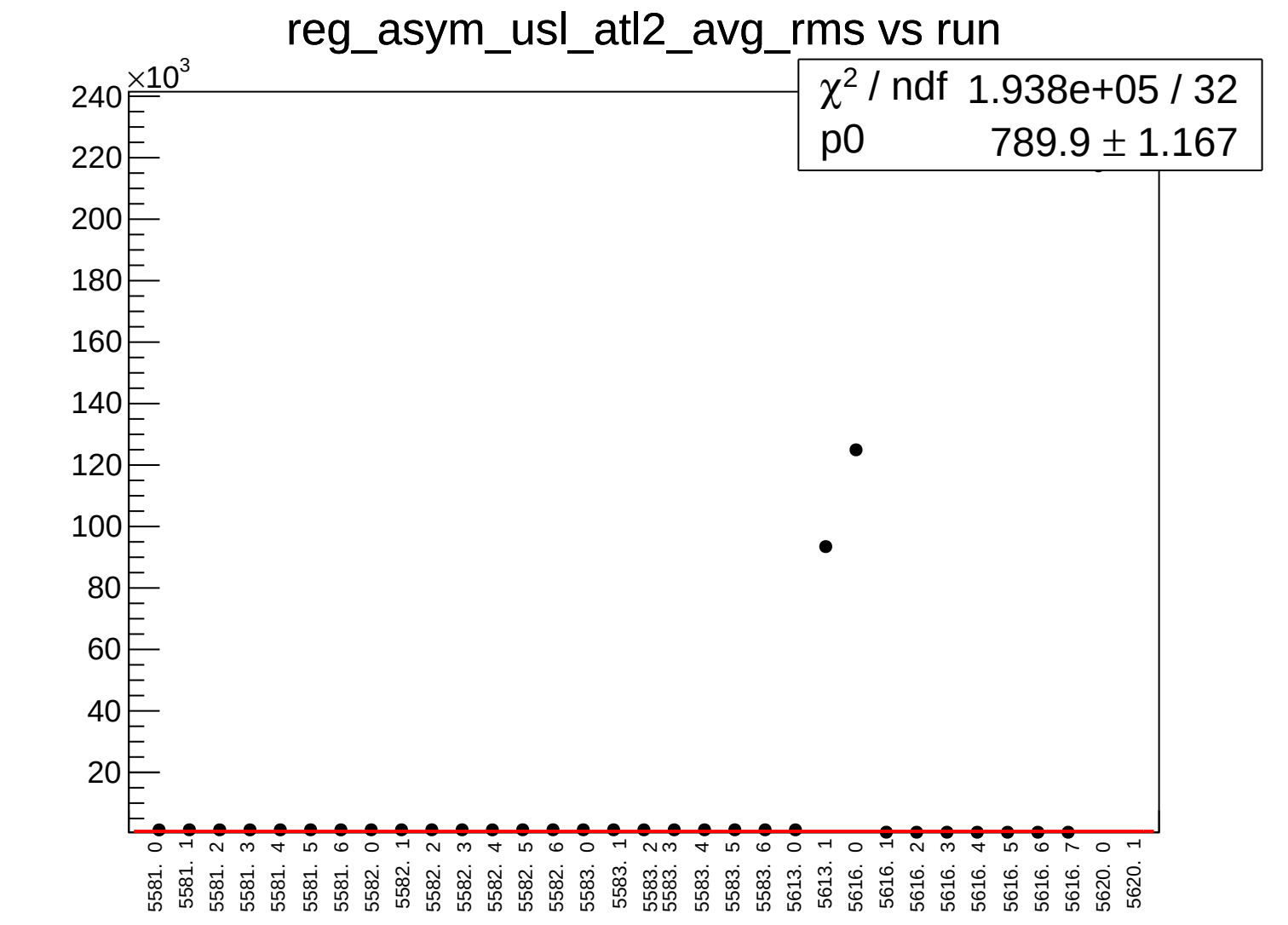

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 16.33 / 25
p0 1.358e−14 ± 6.301e−14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 16.97
Std Dev 5.673

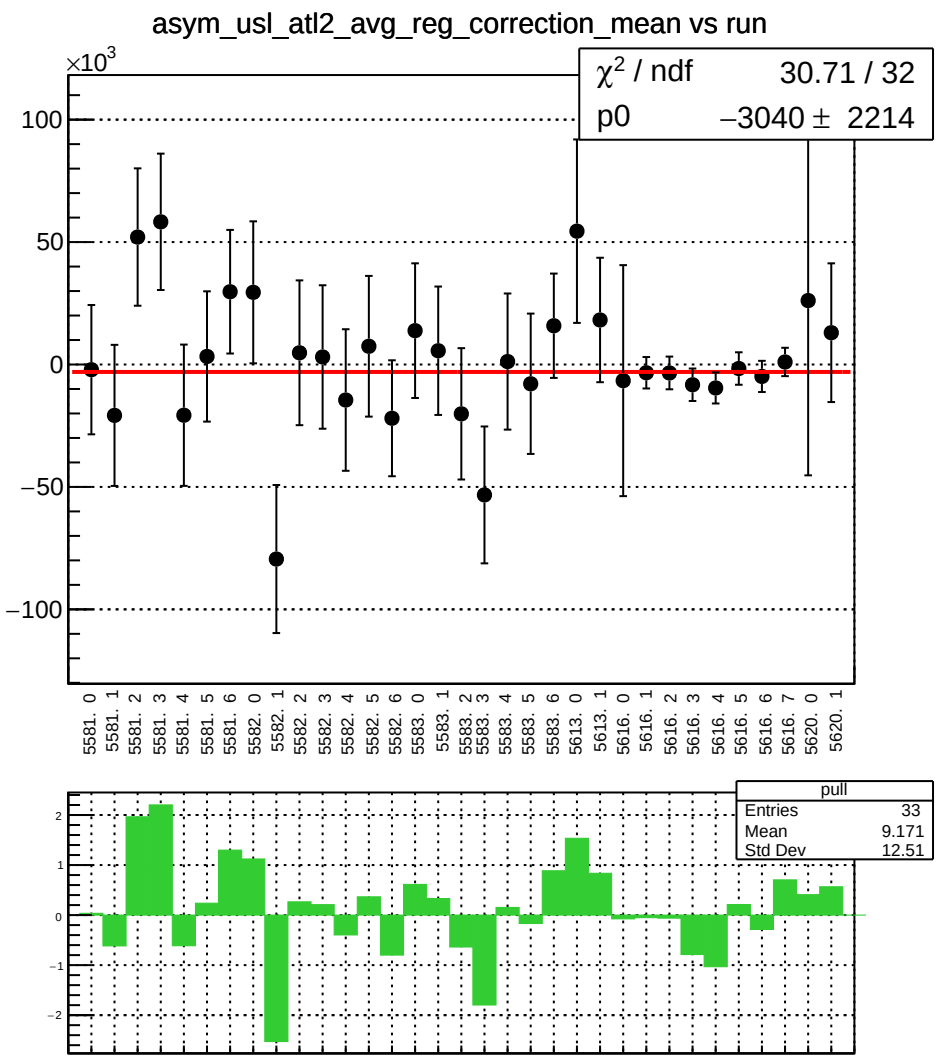

pull1D
Entries 26
Mean −0.1217
Std Dev 0.7831
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

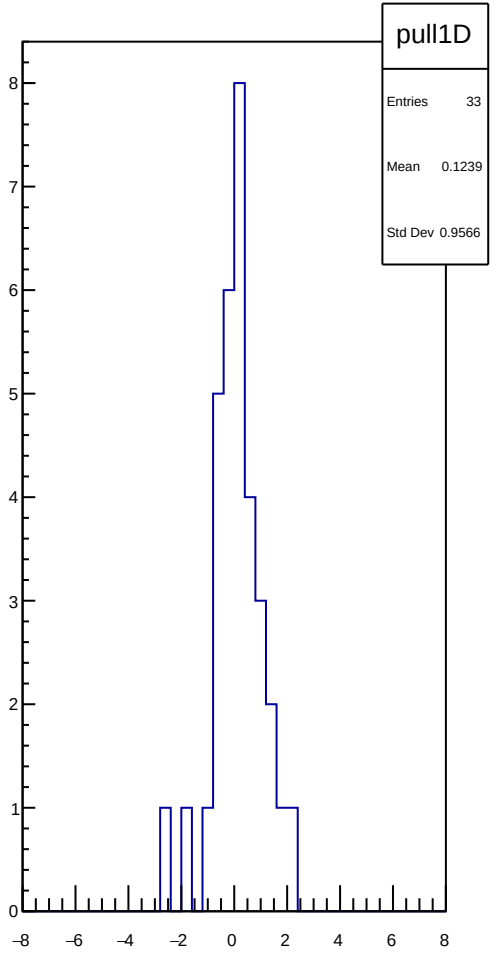

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.431e+05 / 25
p0 2.337e−11 ± 4.455e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

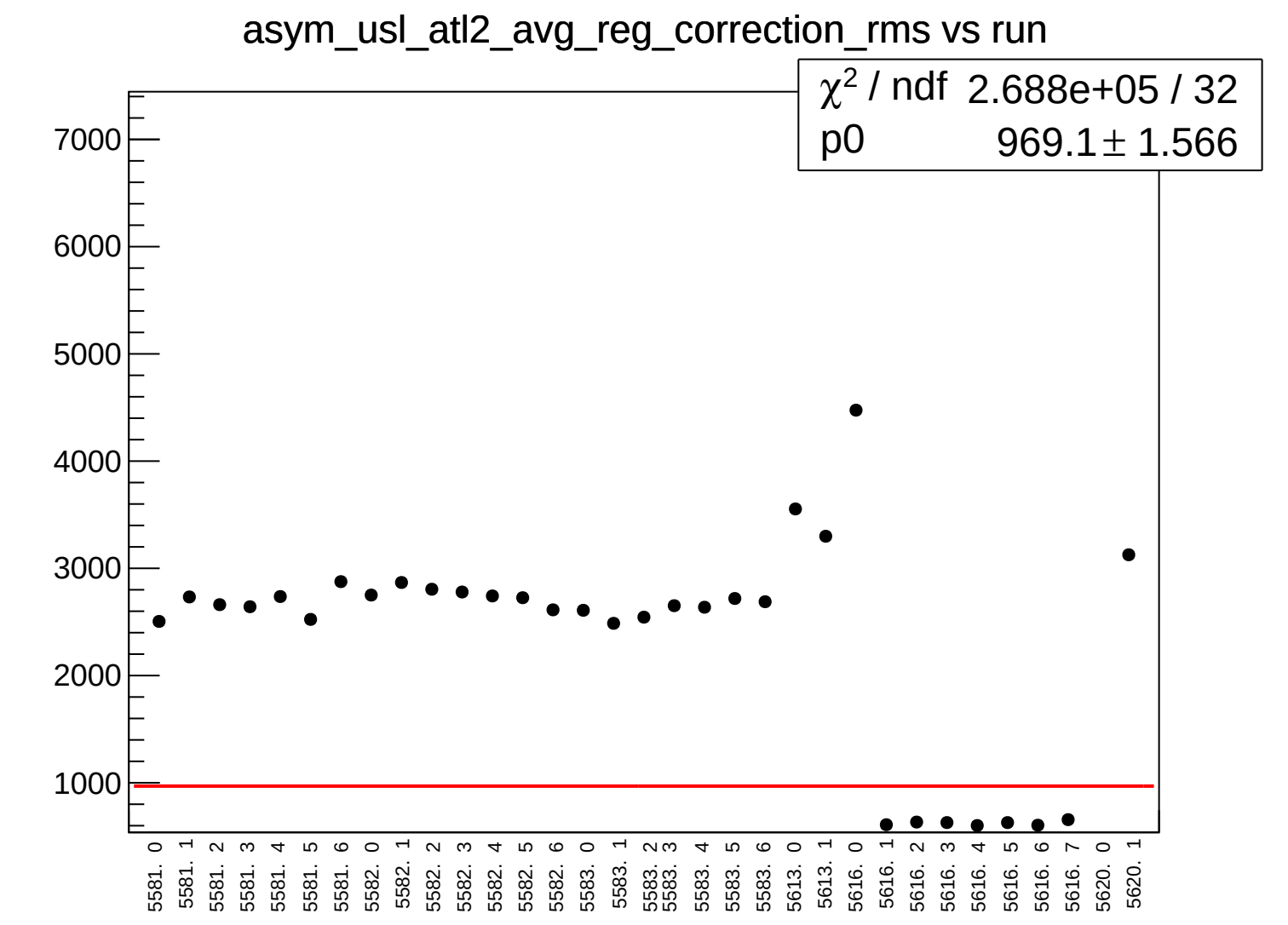

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 20.92 / 21
p0 1168 ± 2840
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 89.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

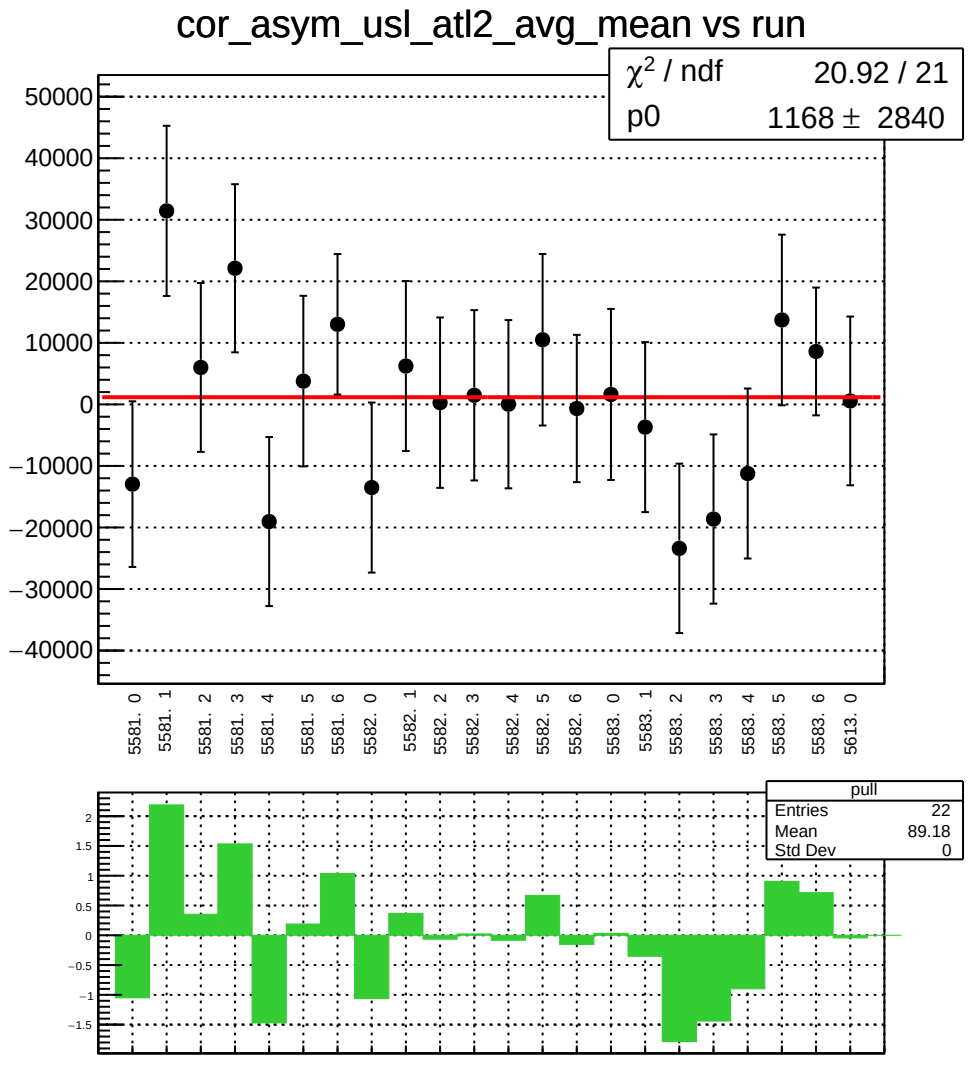

pull1D
Entries 22
Mean −0.01761
Std Dev 0.9749
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

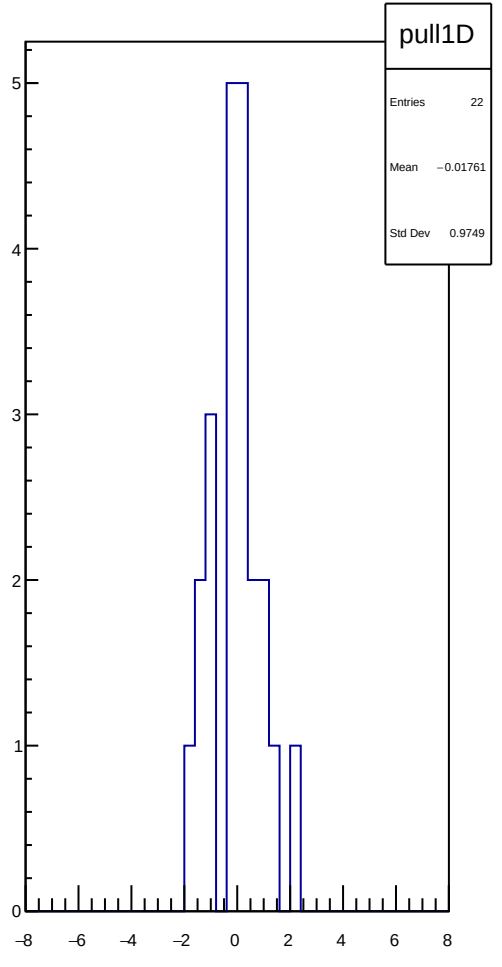

reg_asym_usl_atl2_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1.938e+05 / 32
p0 789.9 ± 1.167
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

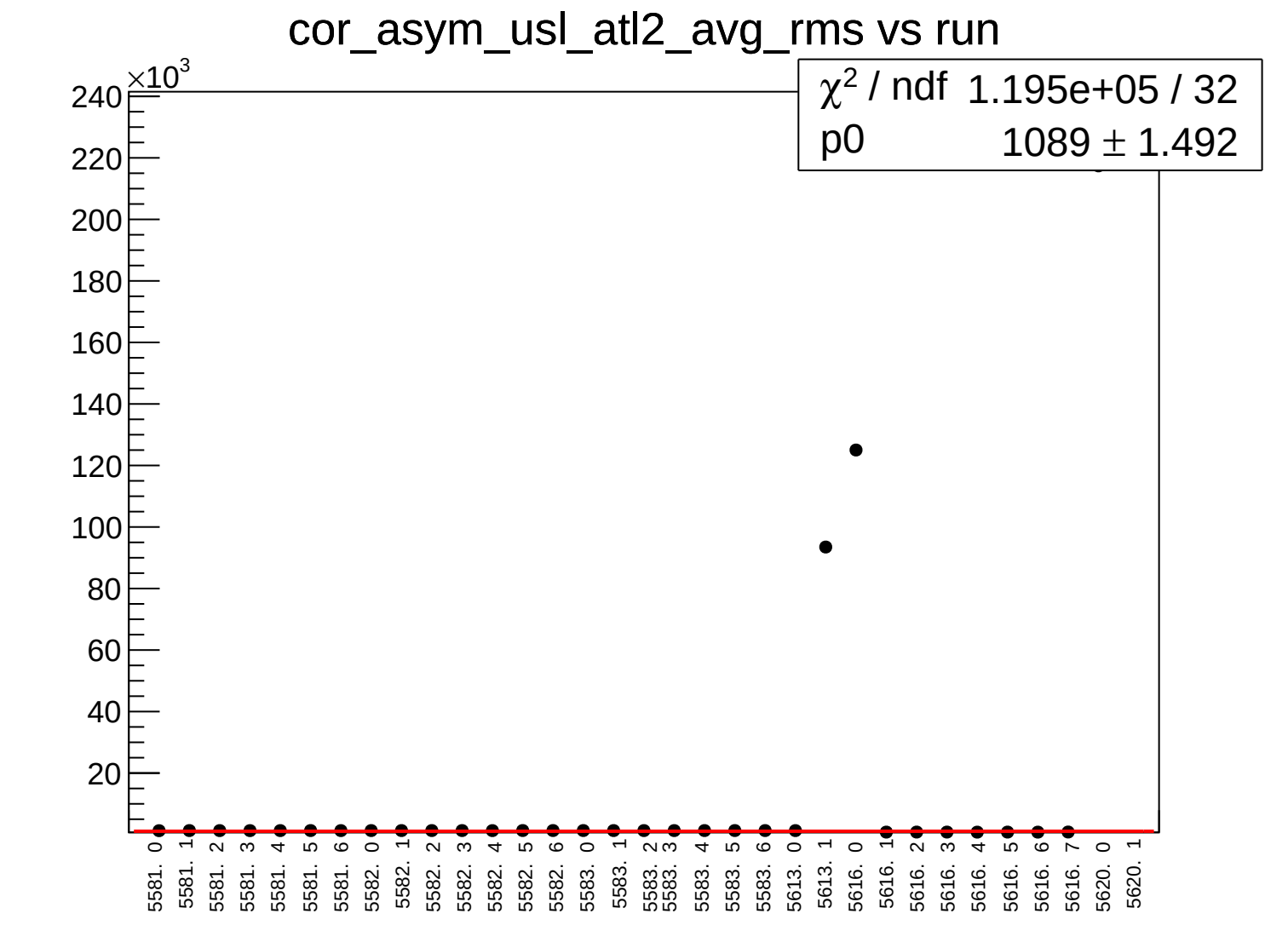

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 30.71 / 32
p0 −3040 ± 2214
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 9.171
Std Dev 12.51
2
1
0
−1
−2

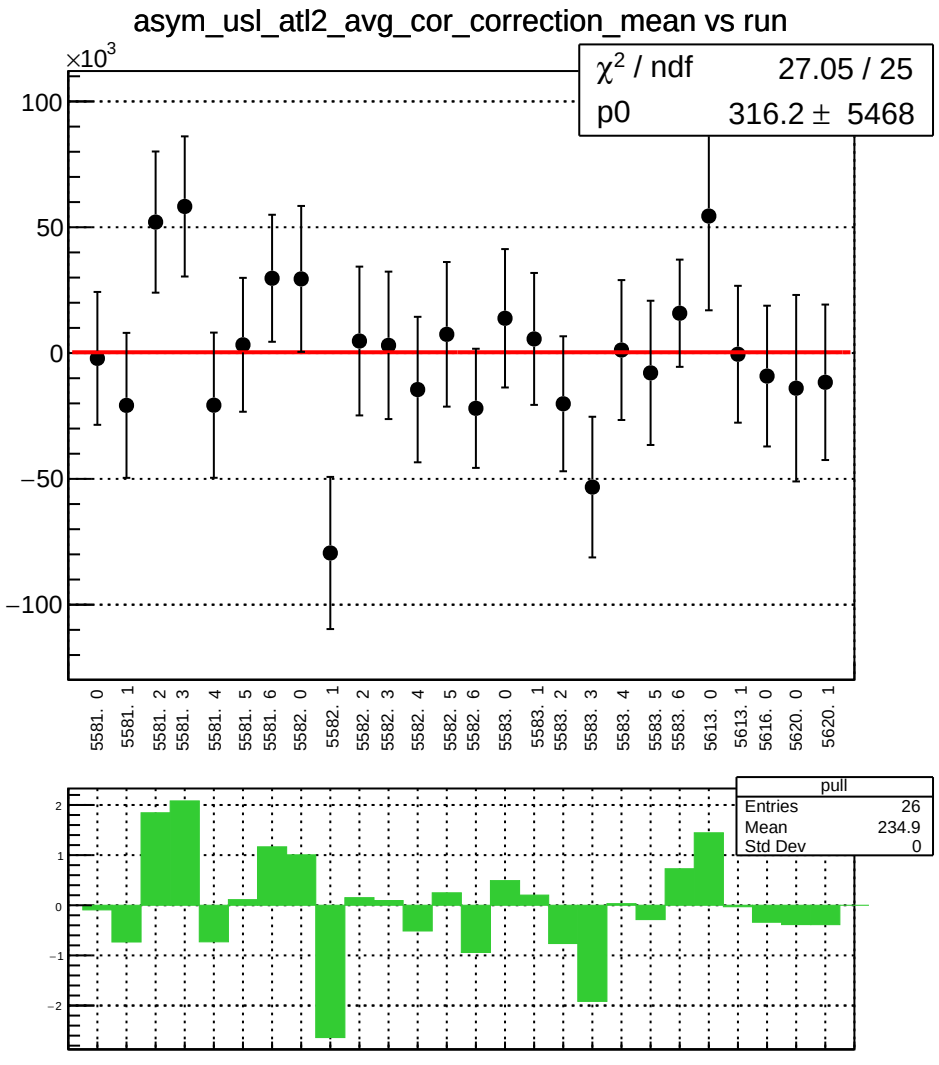

pull1D
Entries 33
Mean 0.1239
Std Dev 0.9566
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

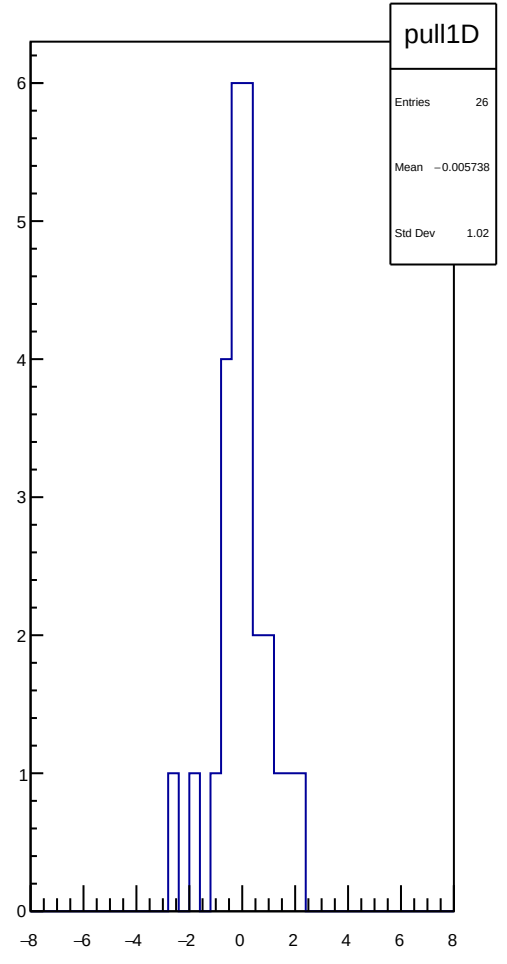

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 2.688e+05 / 32
p0 969.1 ± 1.566
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

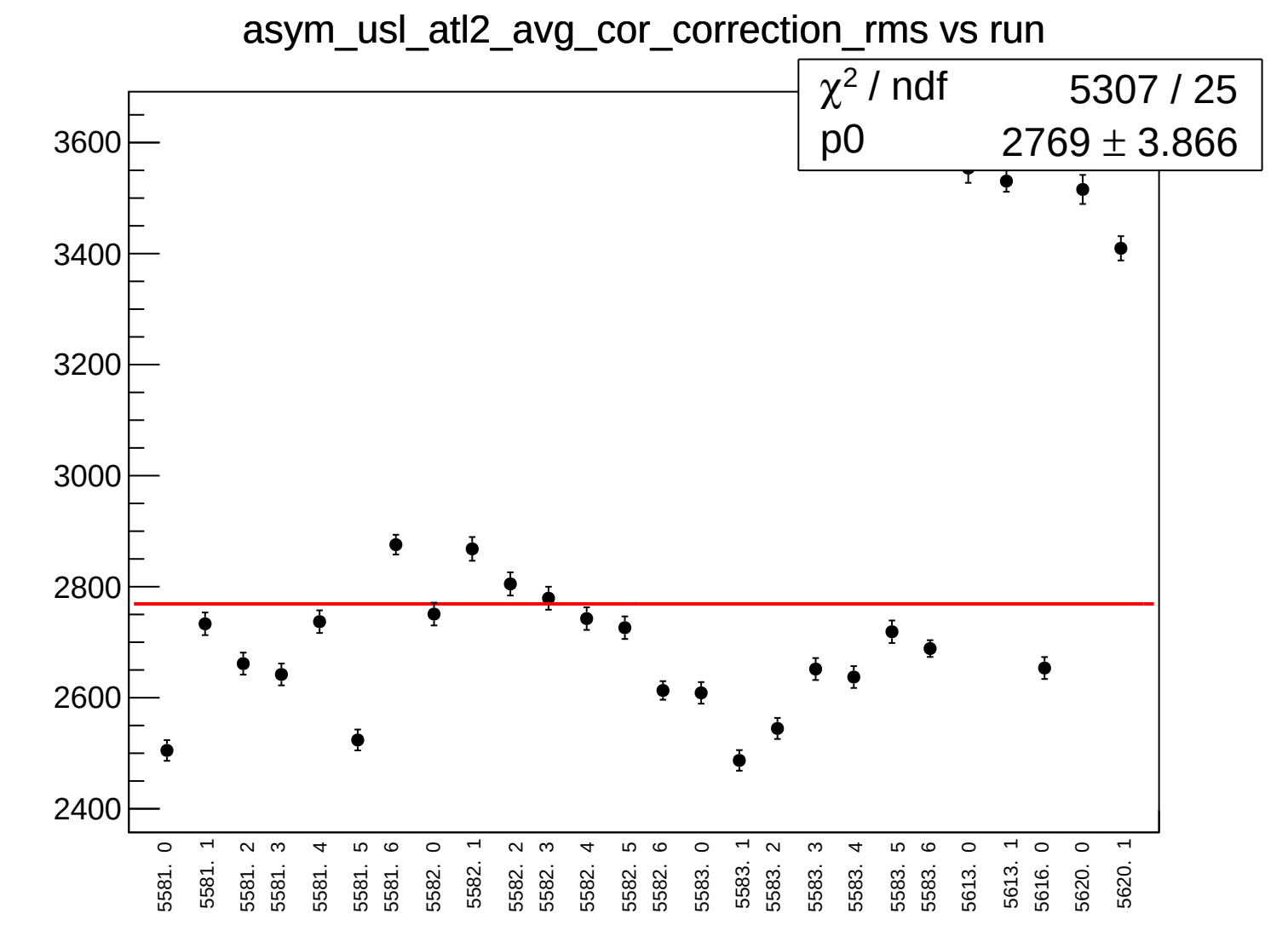

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 20.92 / 21
p0 1168 ± 2840
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 89.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

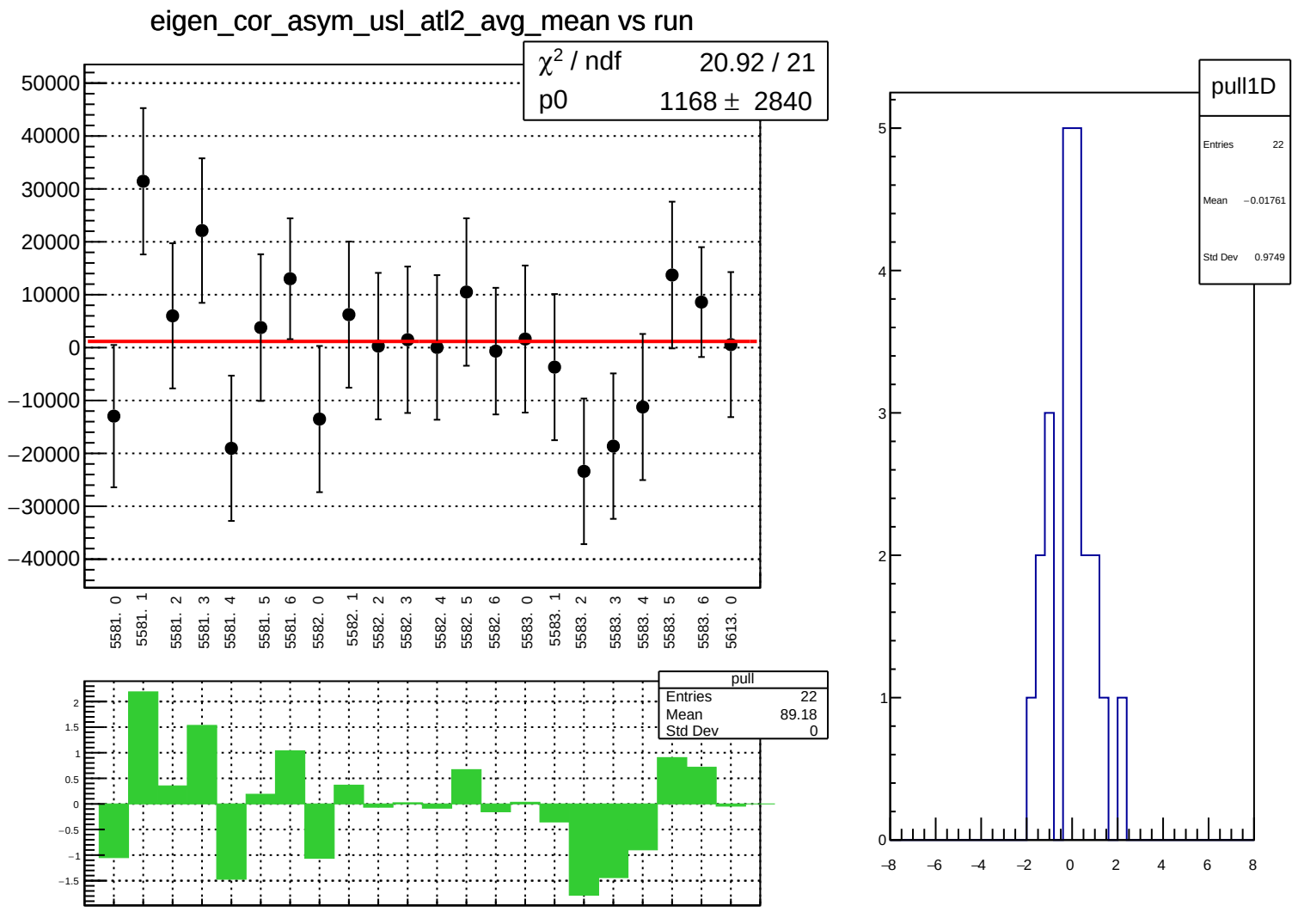

pull1D
Entries 22
Mean −0.01761
Std Dev 0.9749
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

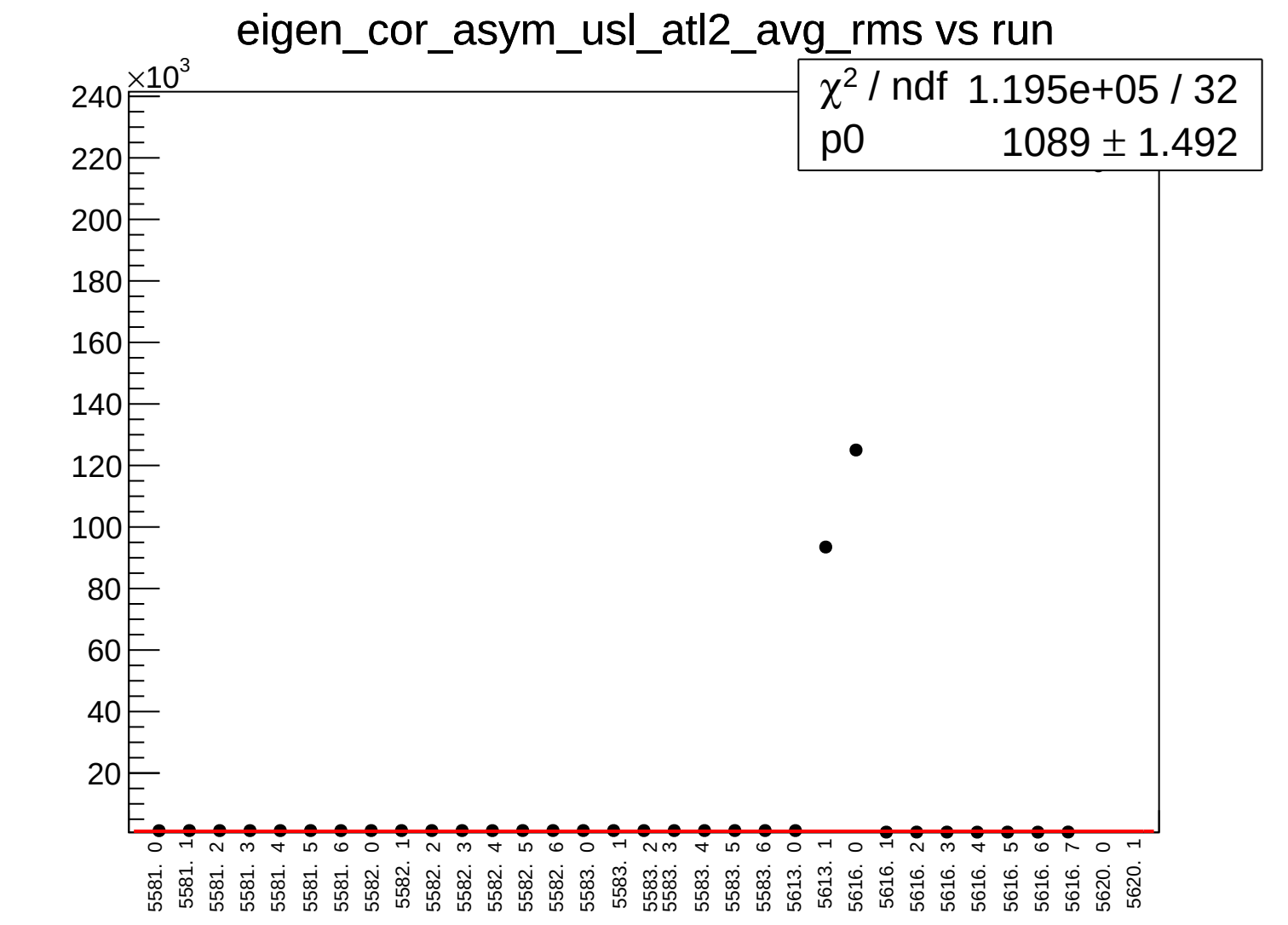

cor_asym_usl_atl2_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1.195e+05 / 32
p0 1089 ± 1.492
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

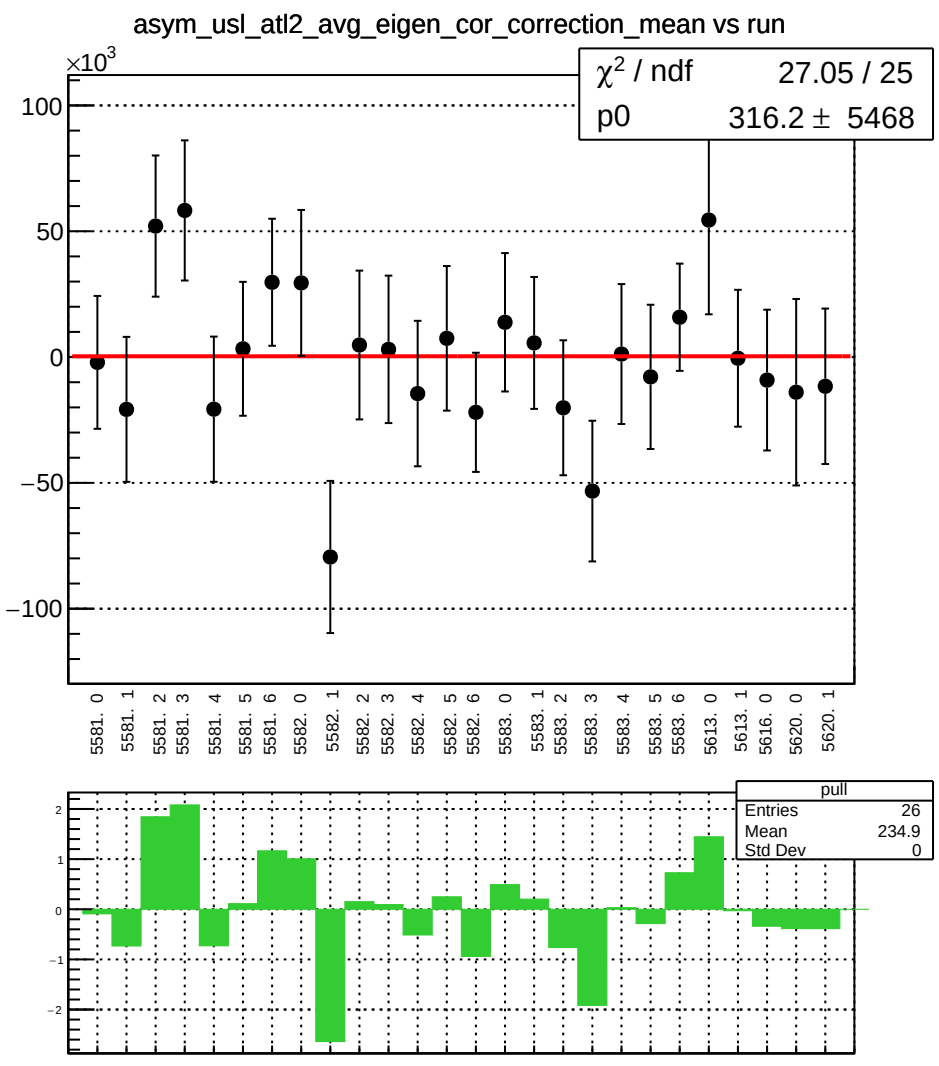

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 27.05 / 25
p0 316.2 ± 5468
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 234.9
Std Dev 0
2
1
0
−1
−2

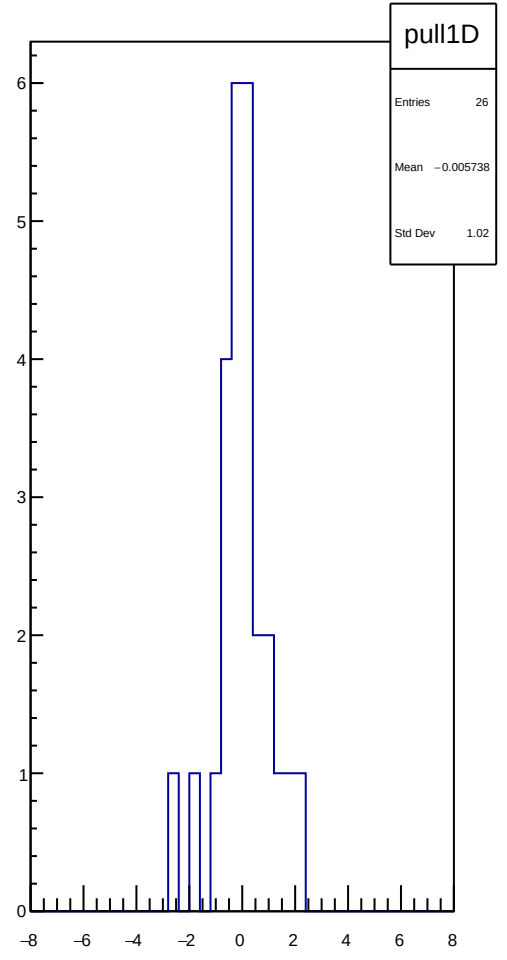

pull1D
Entries 26
Mean −0.005738
Std Dev 1.02
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

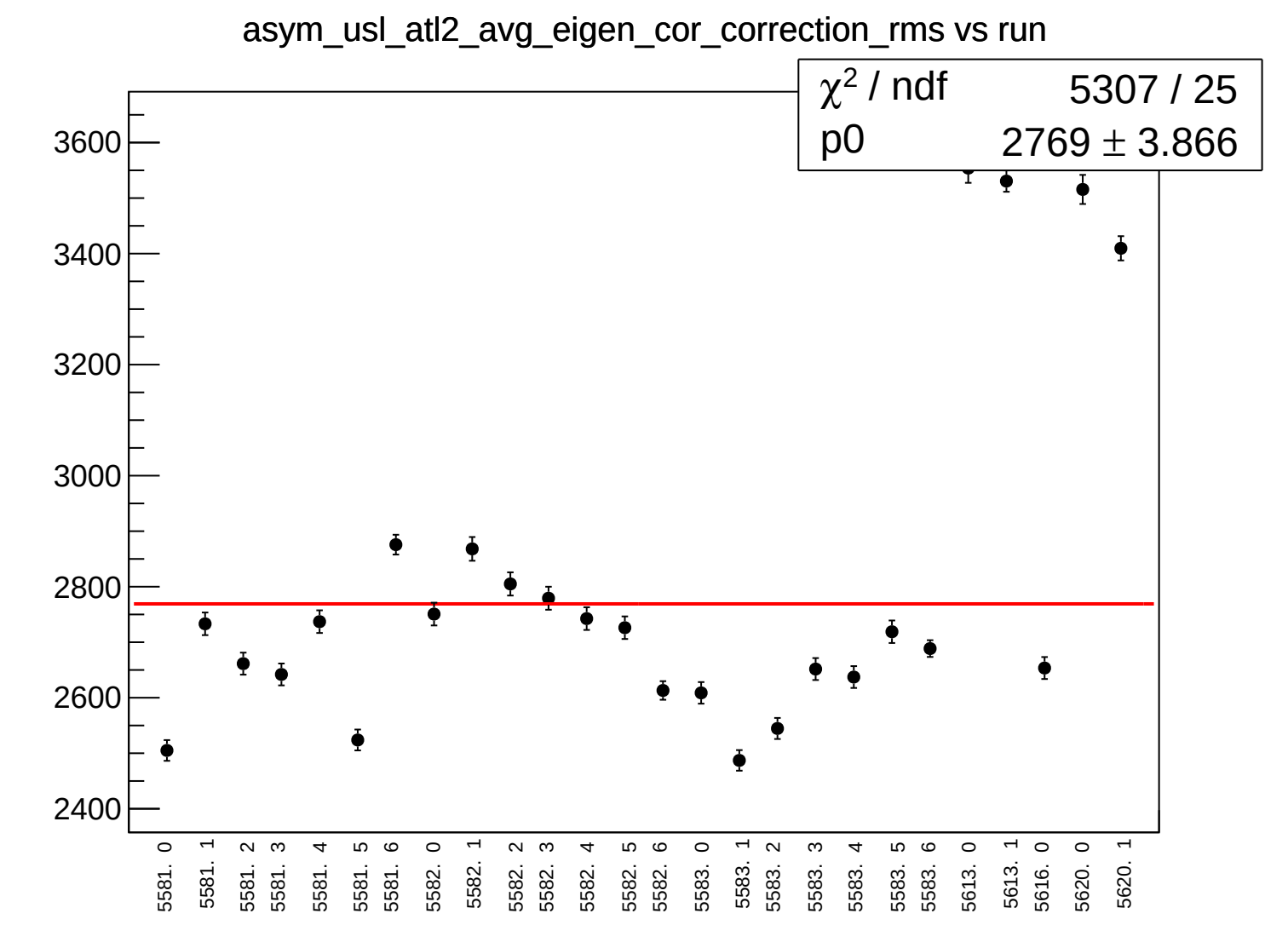

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 5307 / 25
p0 2769 ± 3.866
3600
3400
3200
3000
2800
2600
2400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

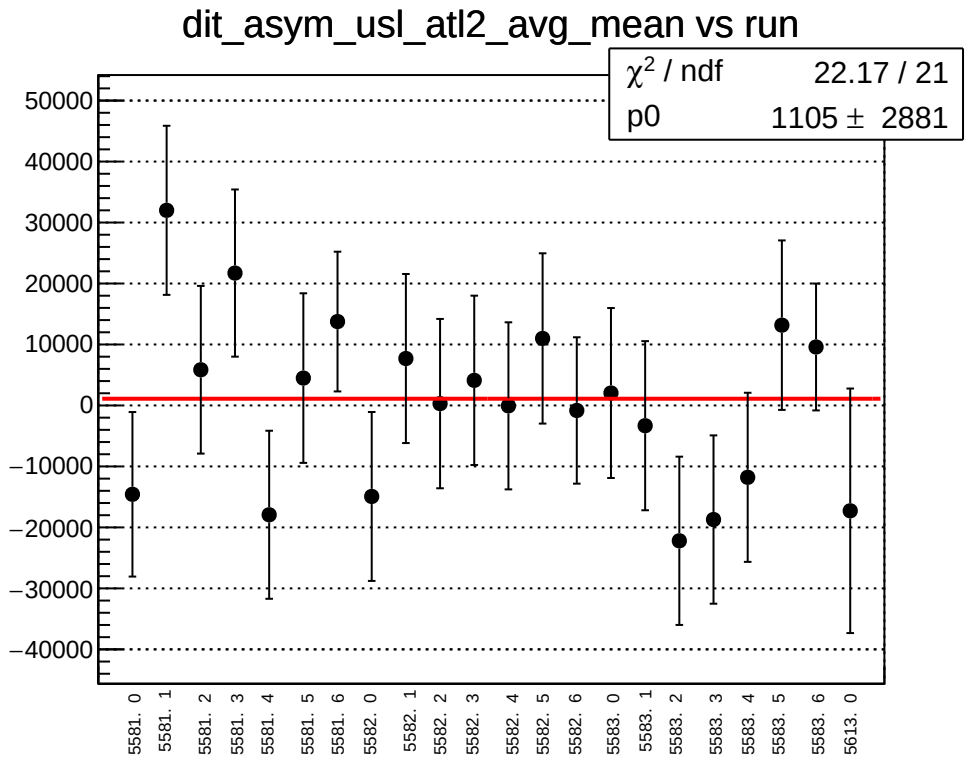

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 20.92 / 21
p0 1168 ± 2840
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 89.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 22
Mean −0.01761
Std Dev 0.9749
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

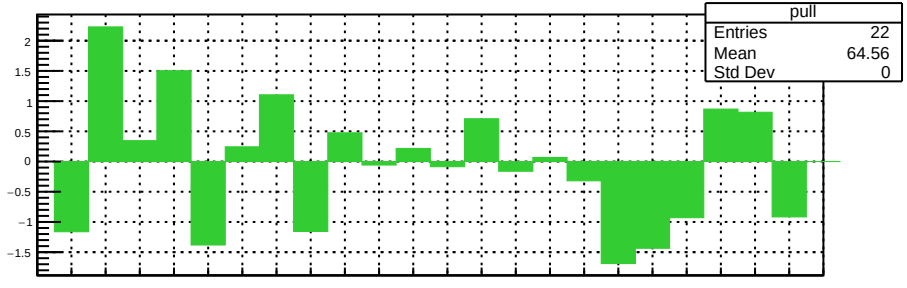

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 1.195e+05 / 32
p0 1089 ± 1.492
×10³
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

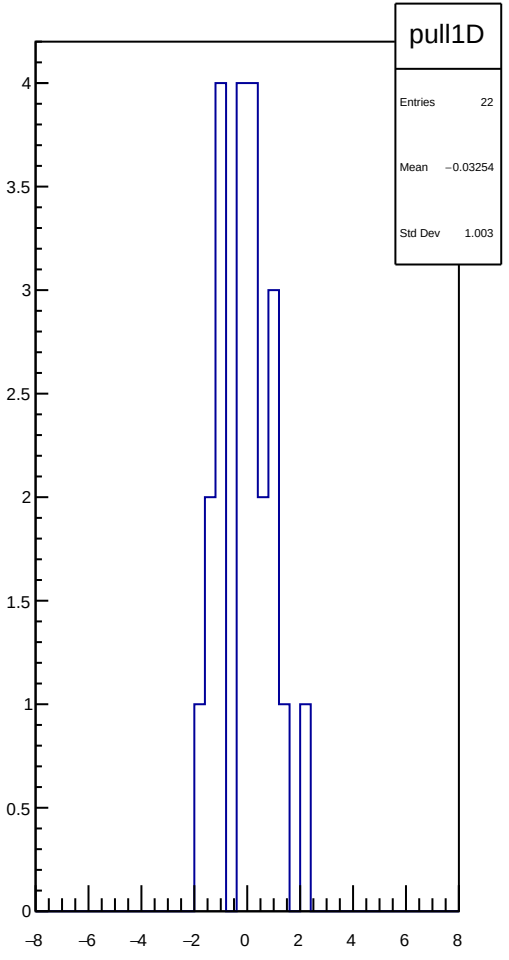

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 27.05 / 25
p0 316.2 ± 5468
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 234.9
Std Dev 0
2
1
0
−1
−2

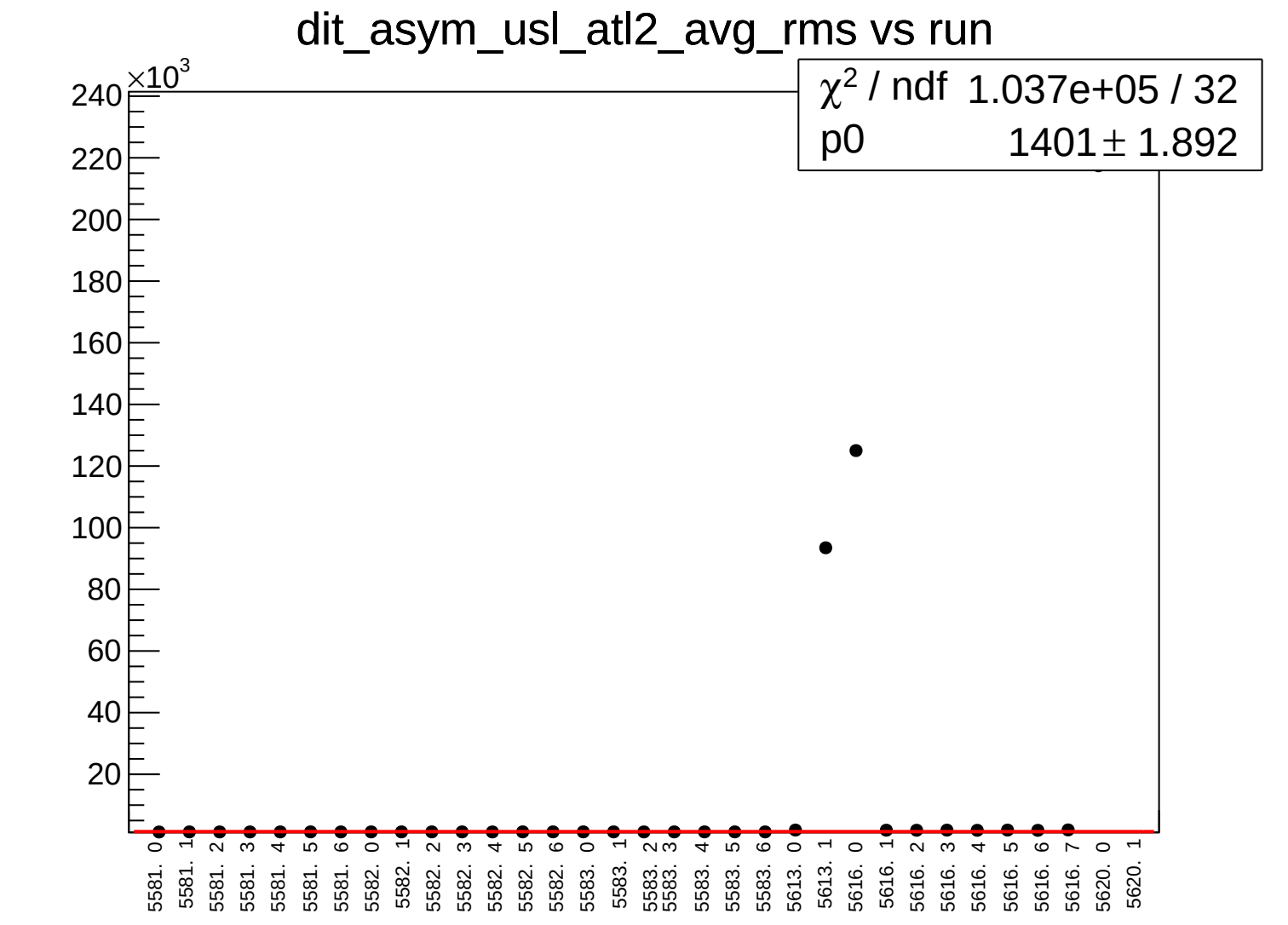

pull1D
Entries 26
Mean −0.005738
Std Dev 1.02
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

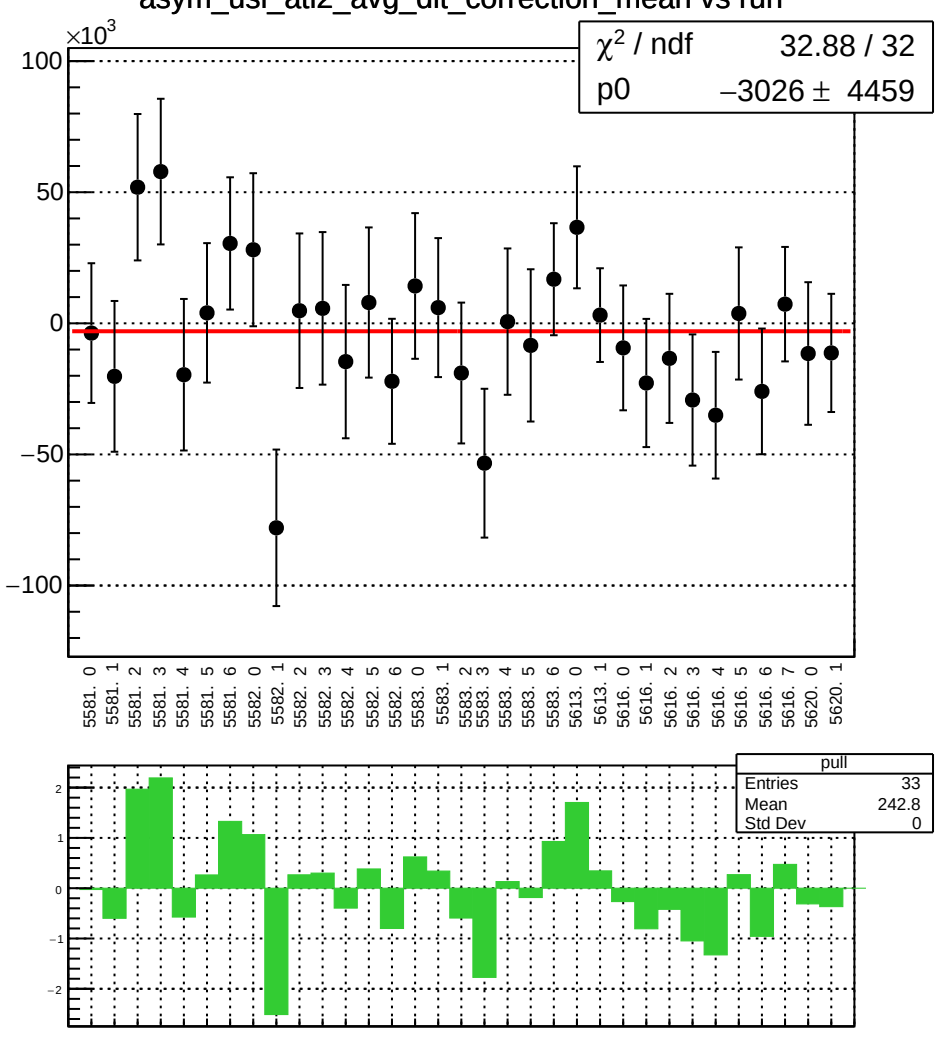

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5307 / 25
p0 2769 ± 3.866
3600
3400
3200
3000
2800
2600
2400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

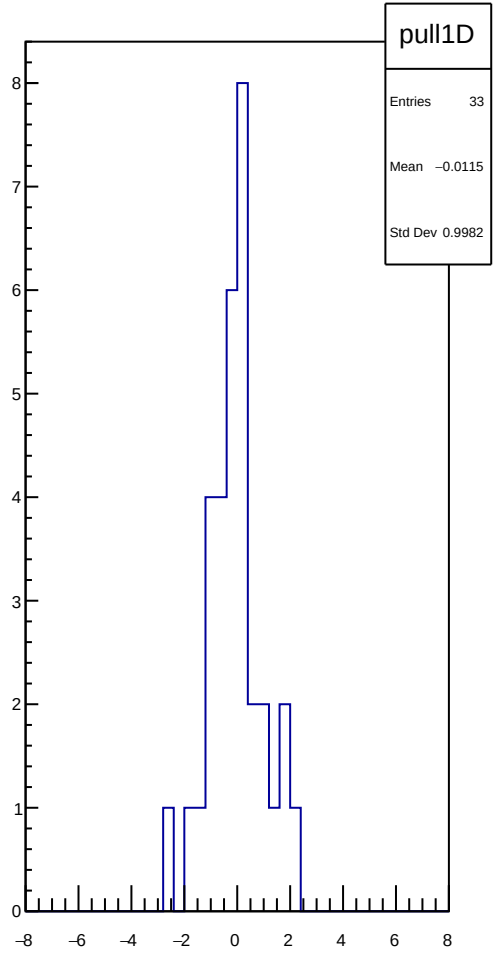

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 22.17 / 21
p0 1105 ± 2881
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

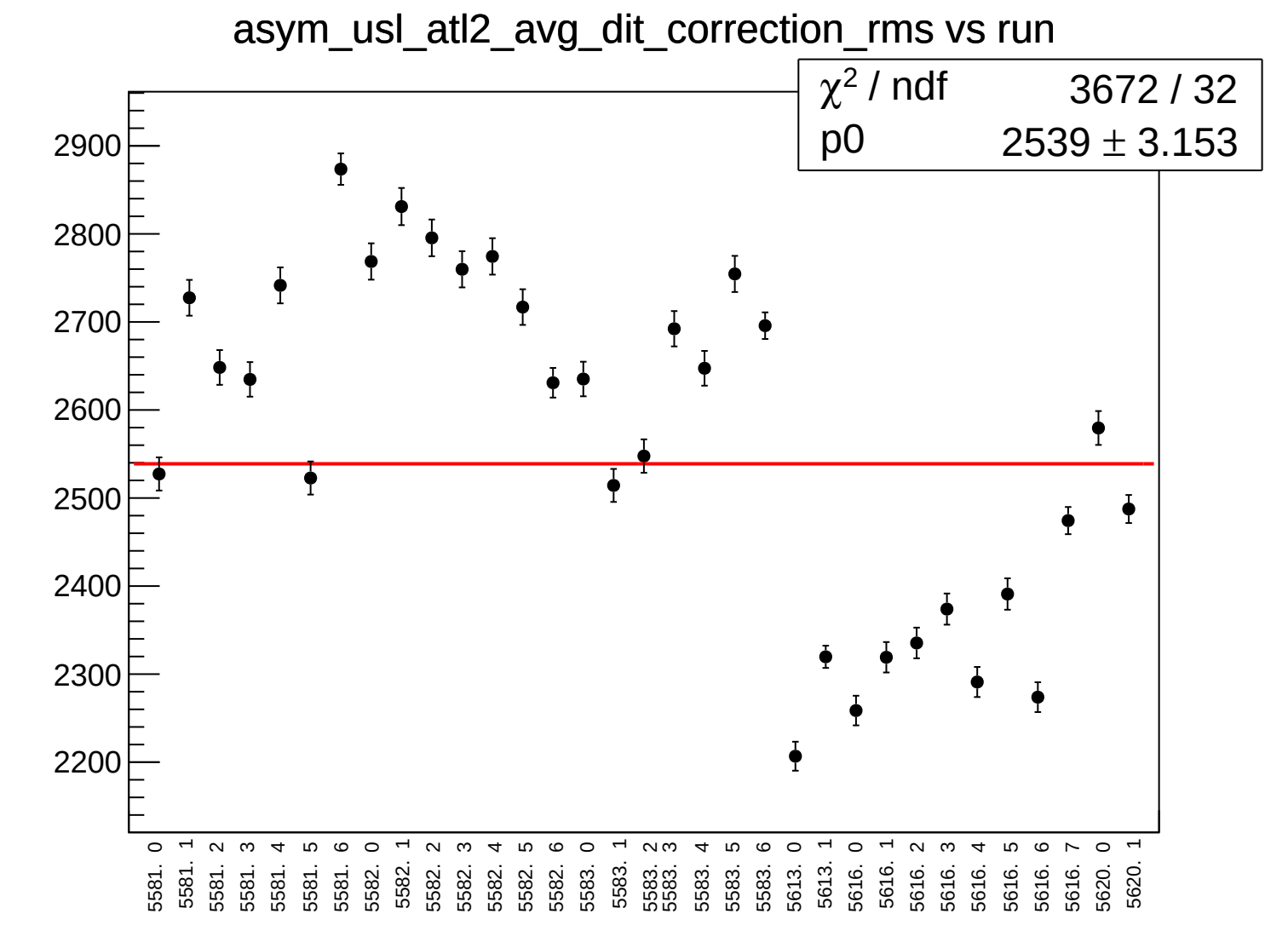

pull
Entries 22
Mean 64.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

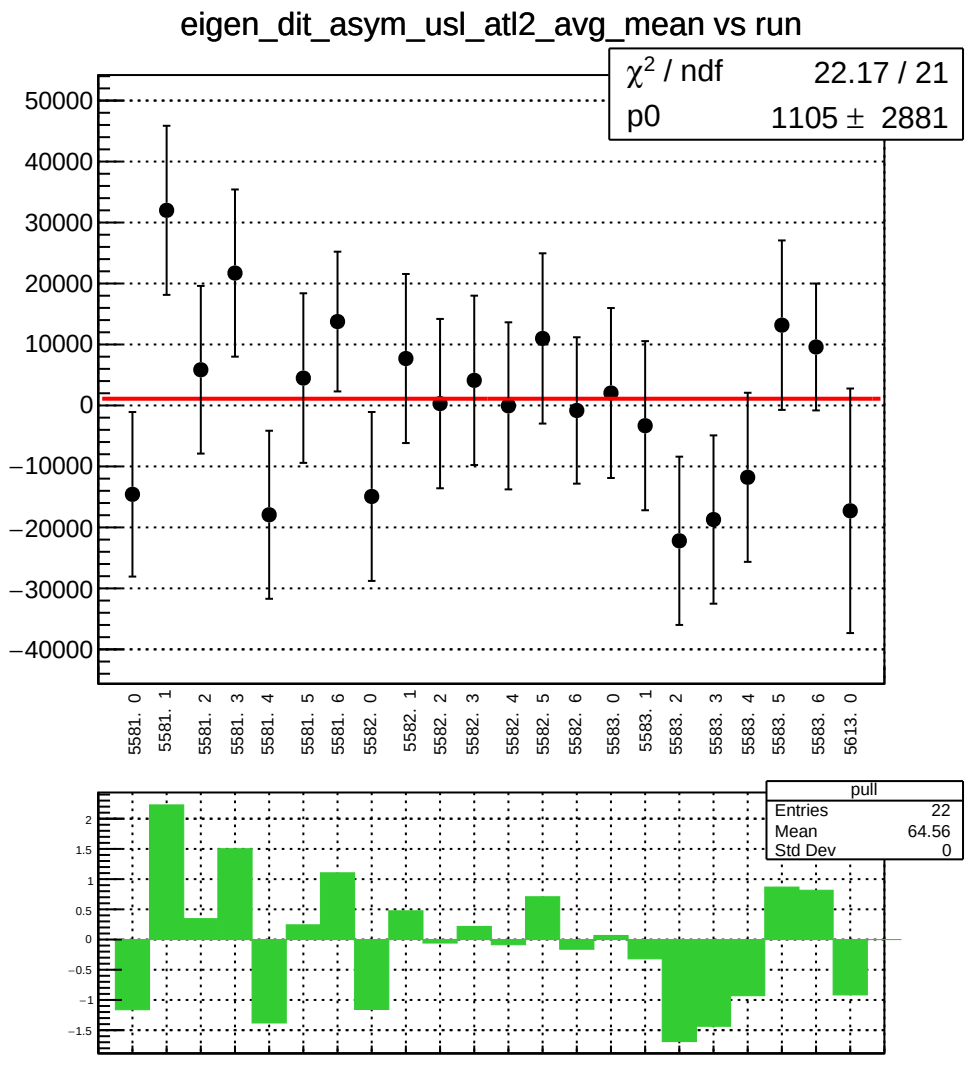

pull1D
Entries 22
Mean −0.03254
Std Dev 1.003
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

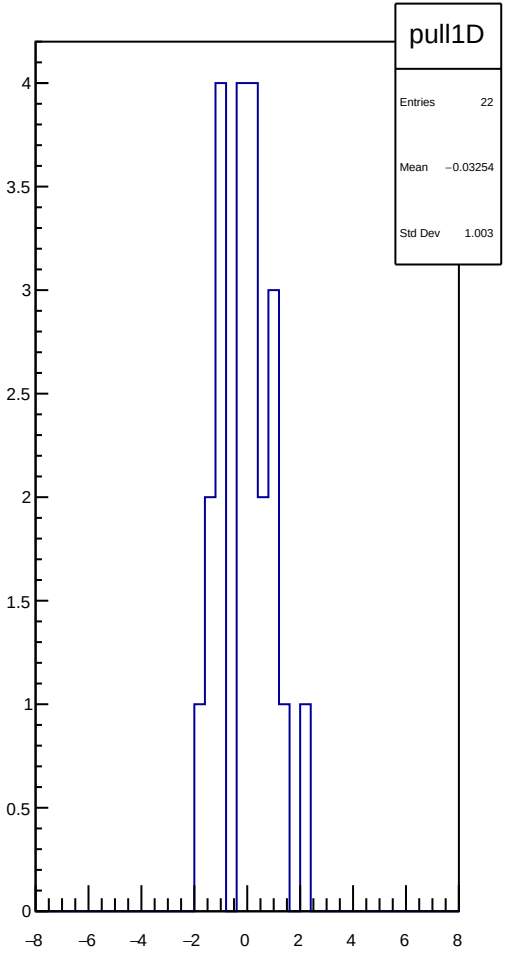

dit_asym_usl_atl2_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1.037e+05 / 32
p0 1401 ± 1.892
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

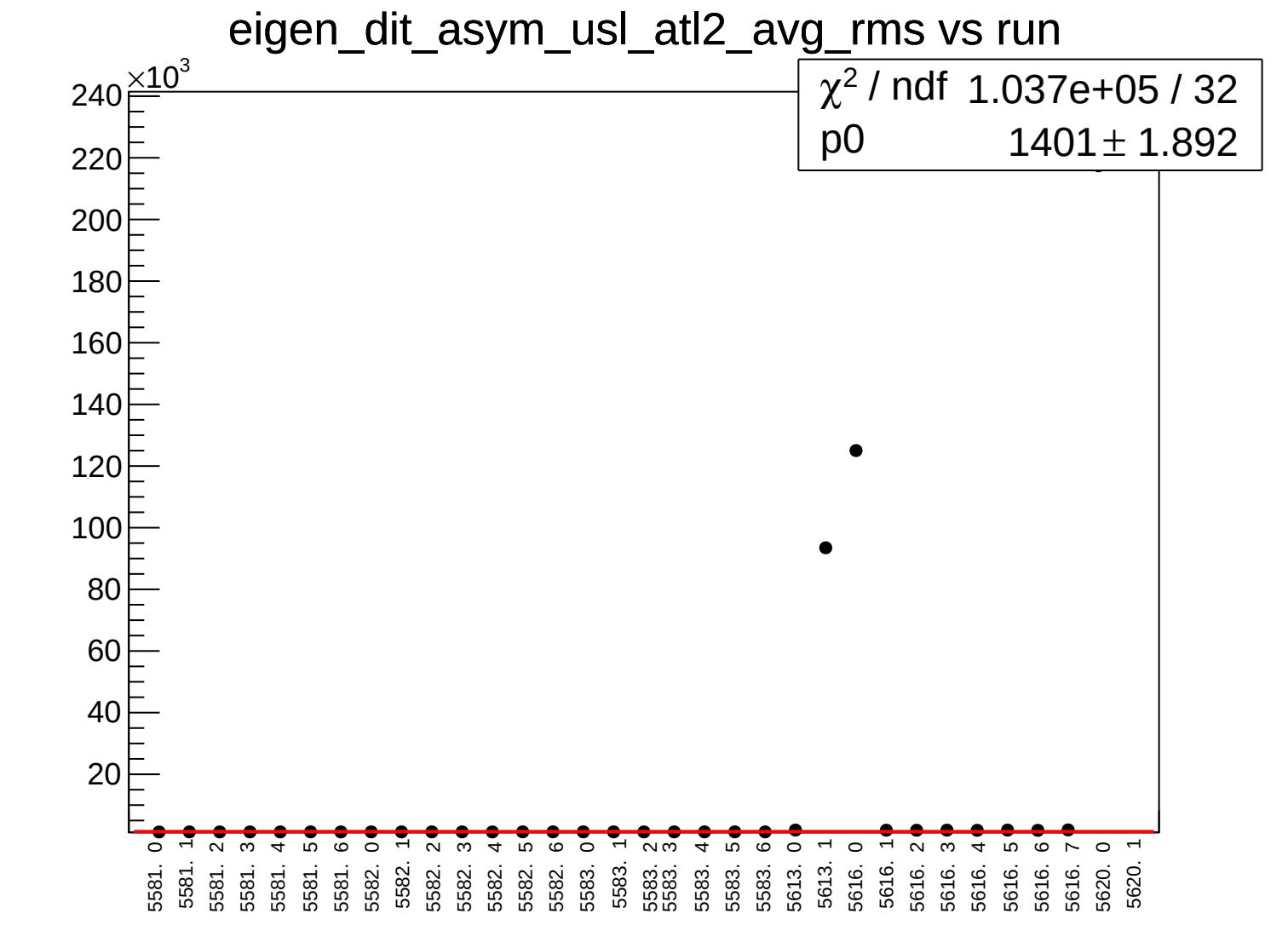

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 32.88 / 32
p0 −3026 ± 4459
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 242.8
Std Dev 0
2
1
0
−1
−2

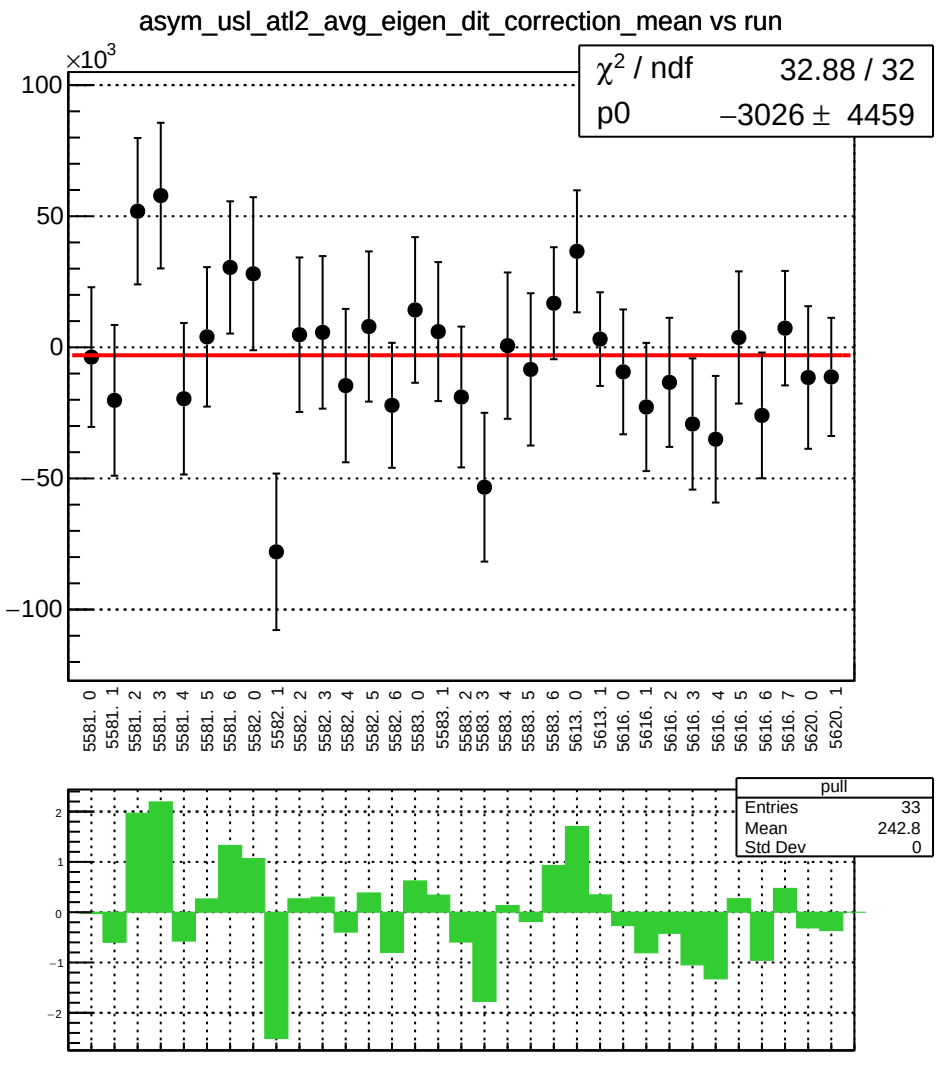

pull1D
Entries 33
Mean −0.0115
Std Dev 0.9982
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

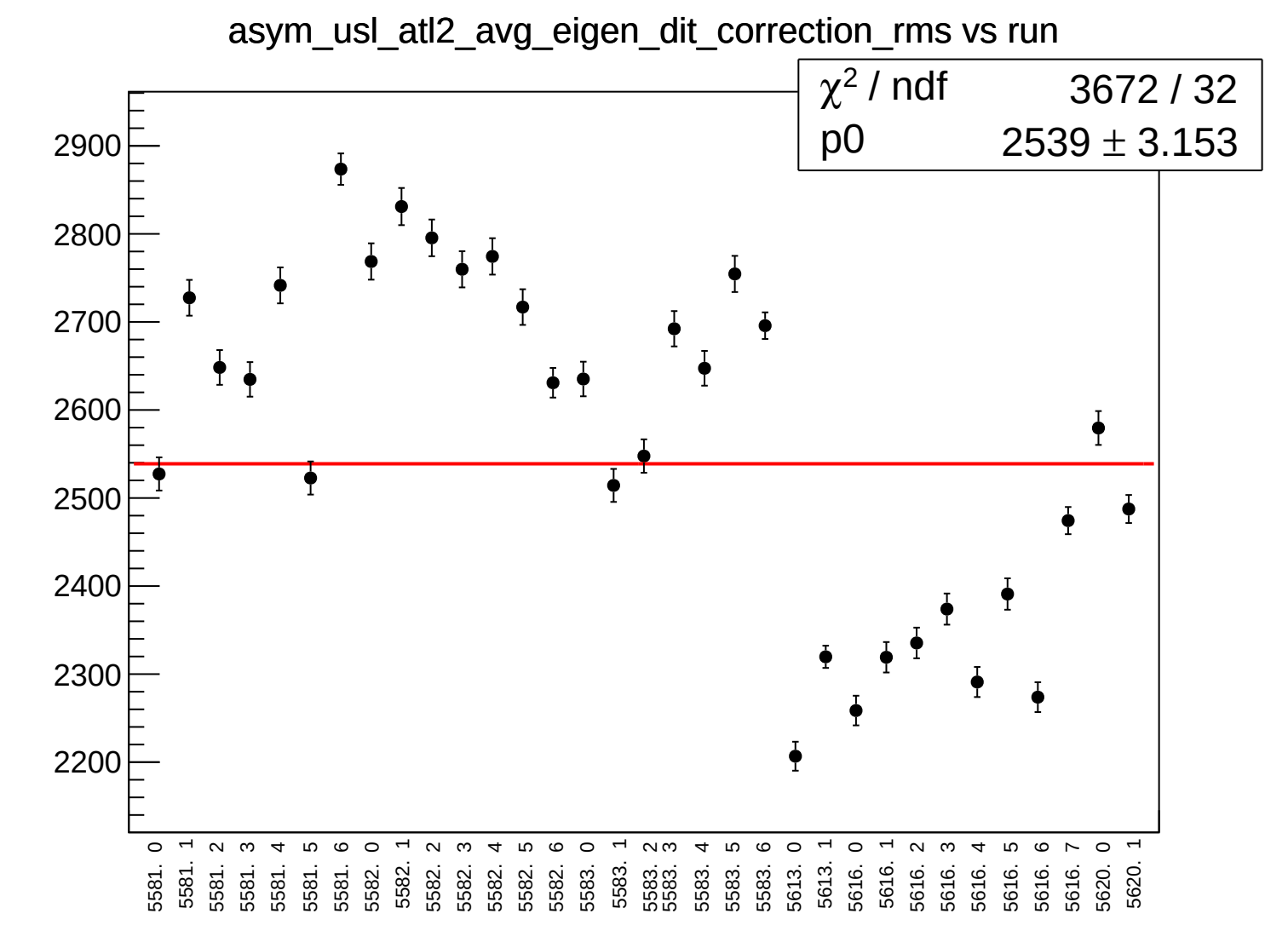

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 3672 / 32
p0 2539 ± 3.153
2900
2800
2700
2600
2500
2400
2300
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

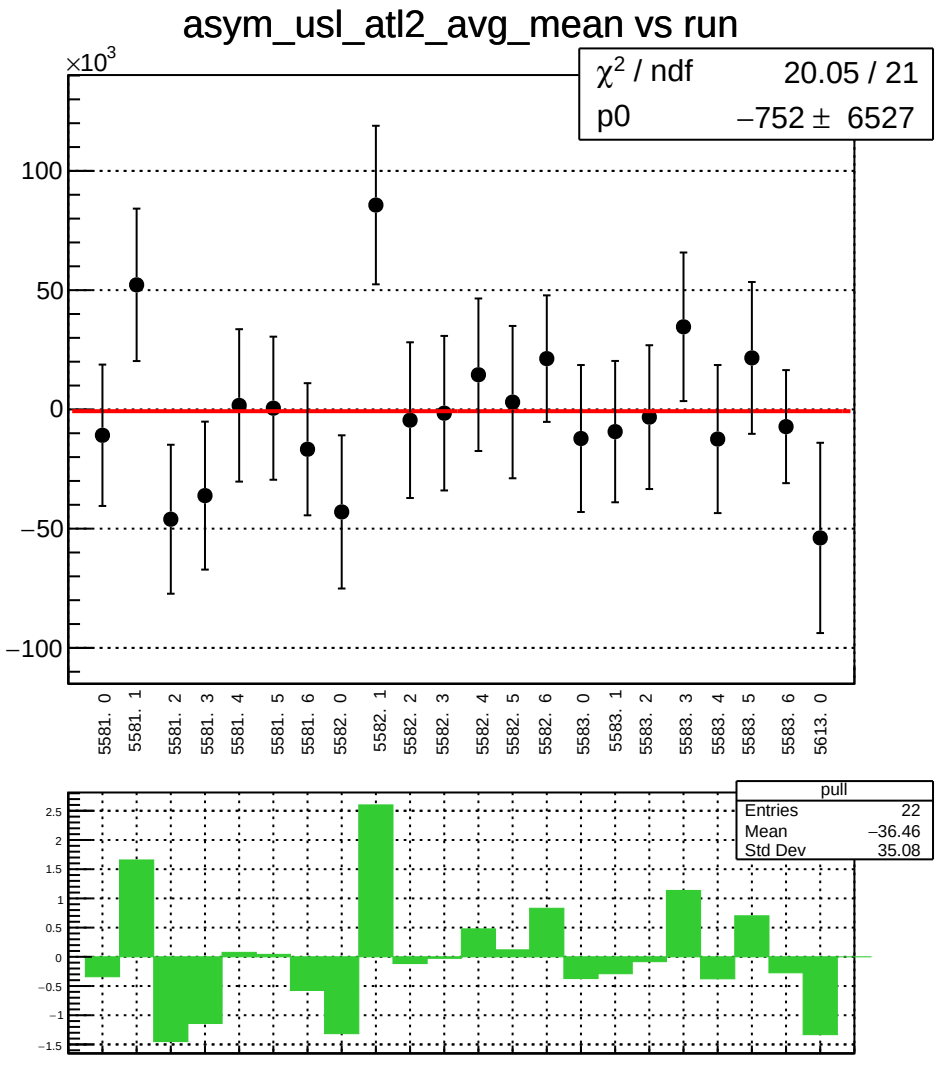

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 22.17 / 21
p0 1105 ± 2881
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 64.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

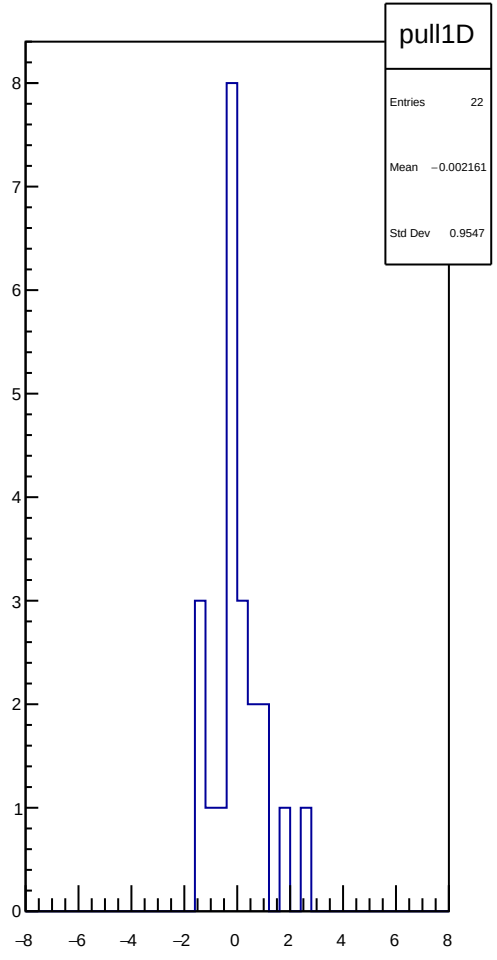

pull1D
Entries 22
Mean −0.03254
Std Dev 1.003
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

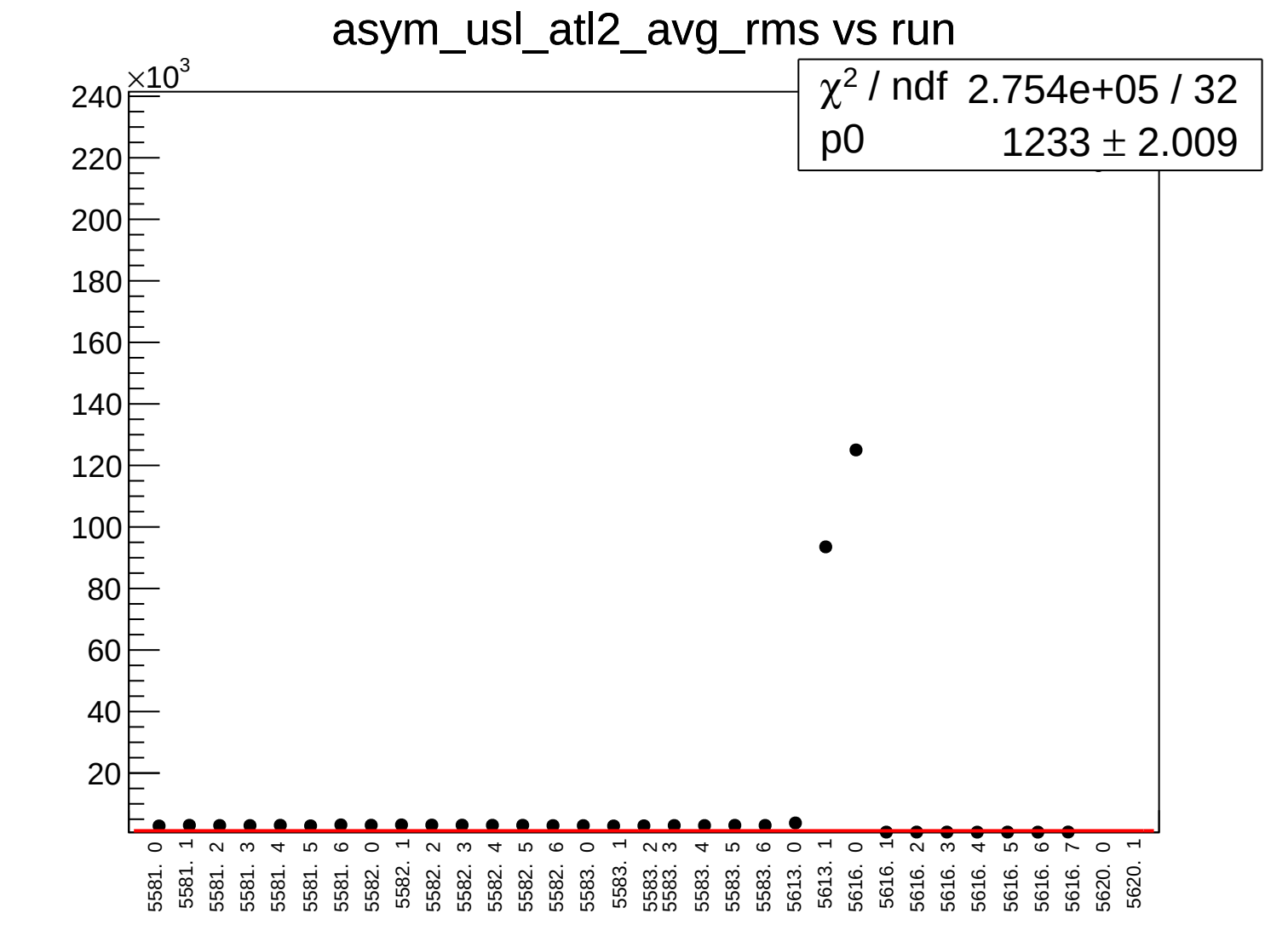

eigen_dit_asym_usl_atl2_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1.037e+05 / 32
p0 1401 ± 1.892
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

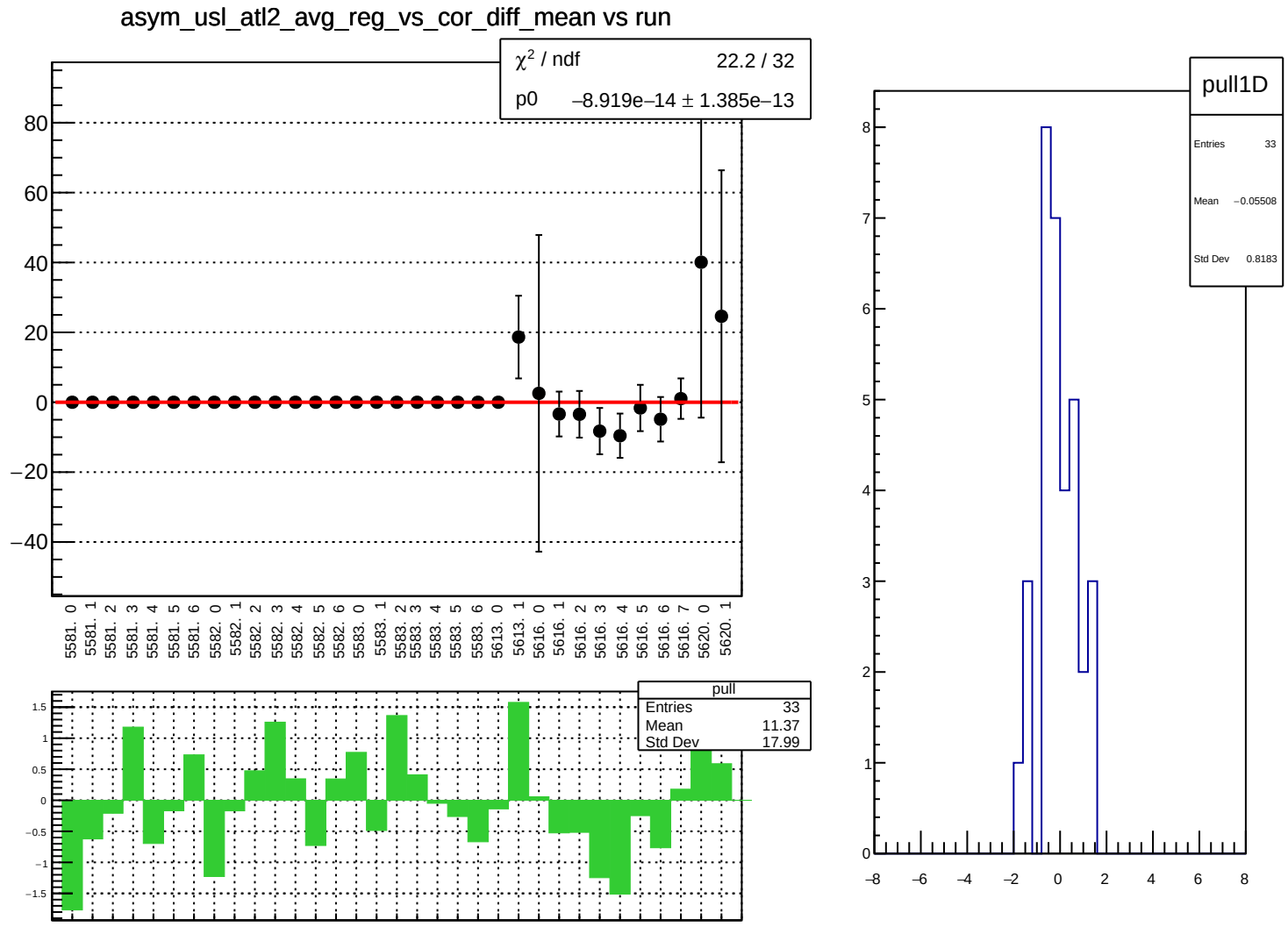

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 32.88 / 32
p0 −3026 ± 4459
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 242.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.0115
Std Dev 0.9982
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

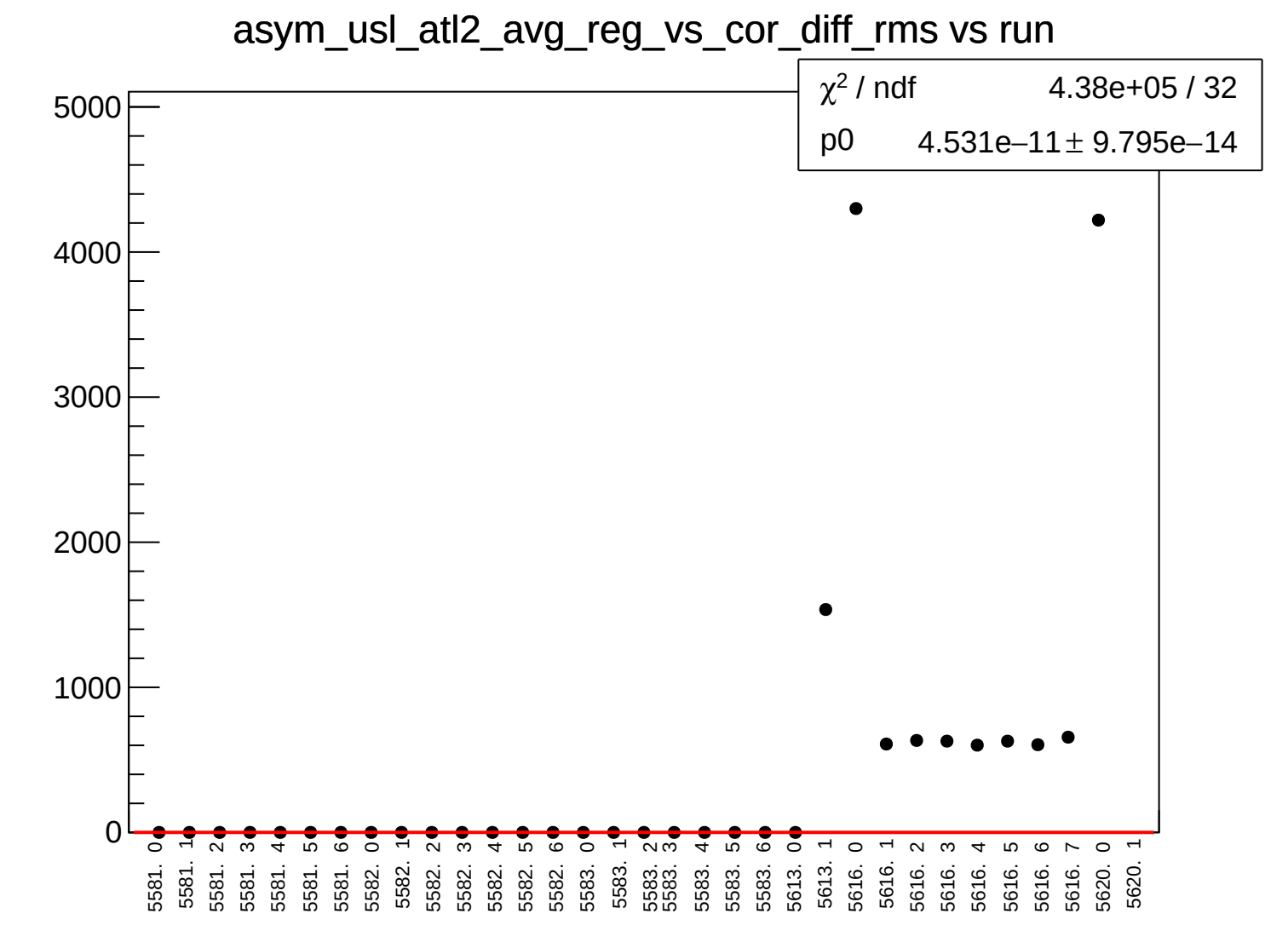

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3672 / 32
p0 2539 ± 3.153
2900
2800
2700
2600
2500
2400
2300
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

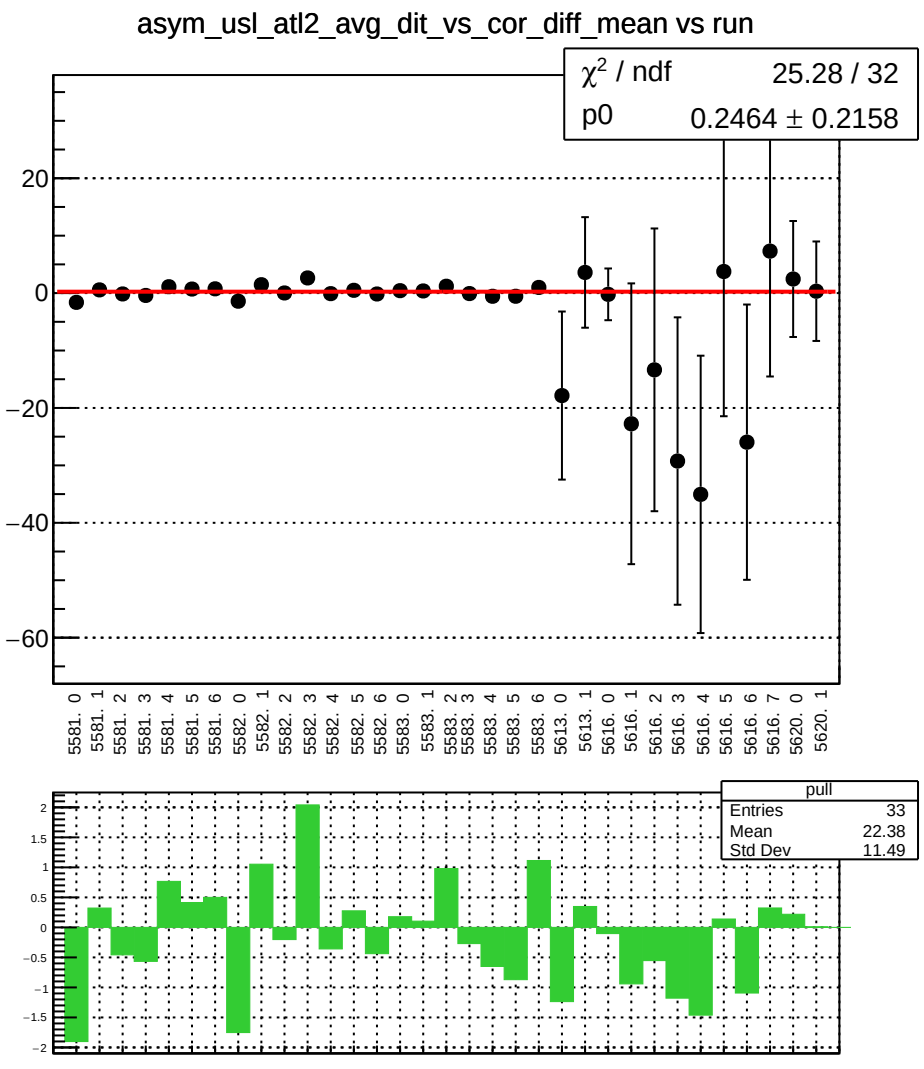

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 20.05 / 21
p0 −752 ± 6527
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean −36.46
Std Dev 35.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

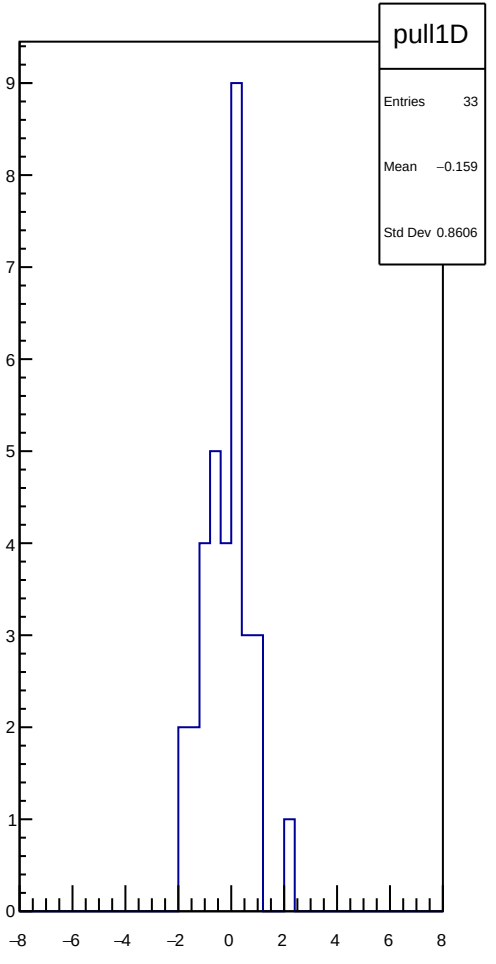

pull1D
Entries 22
Mean −0.002161
Std Dev 0.9547
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

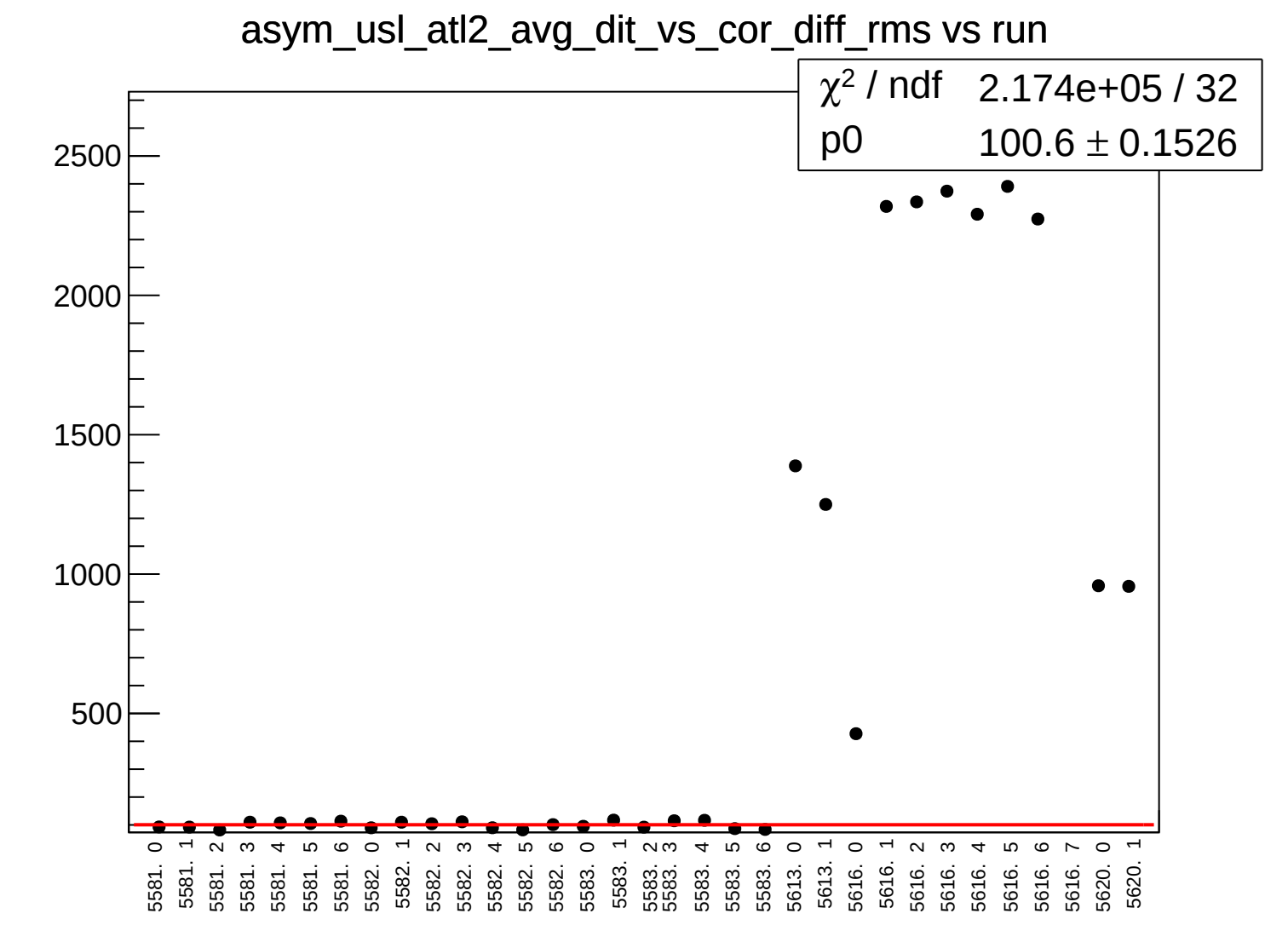

asym_usl_atl2_avg_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 2.754e+05 / 32
p0 1233 ± 2.009
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

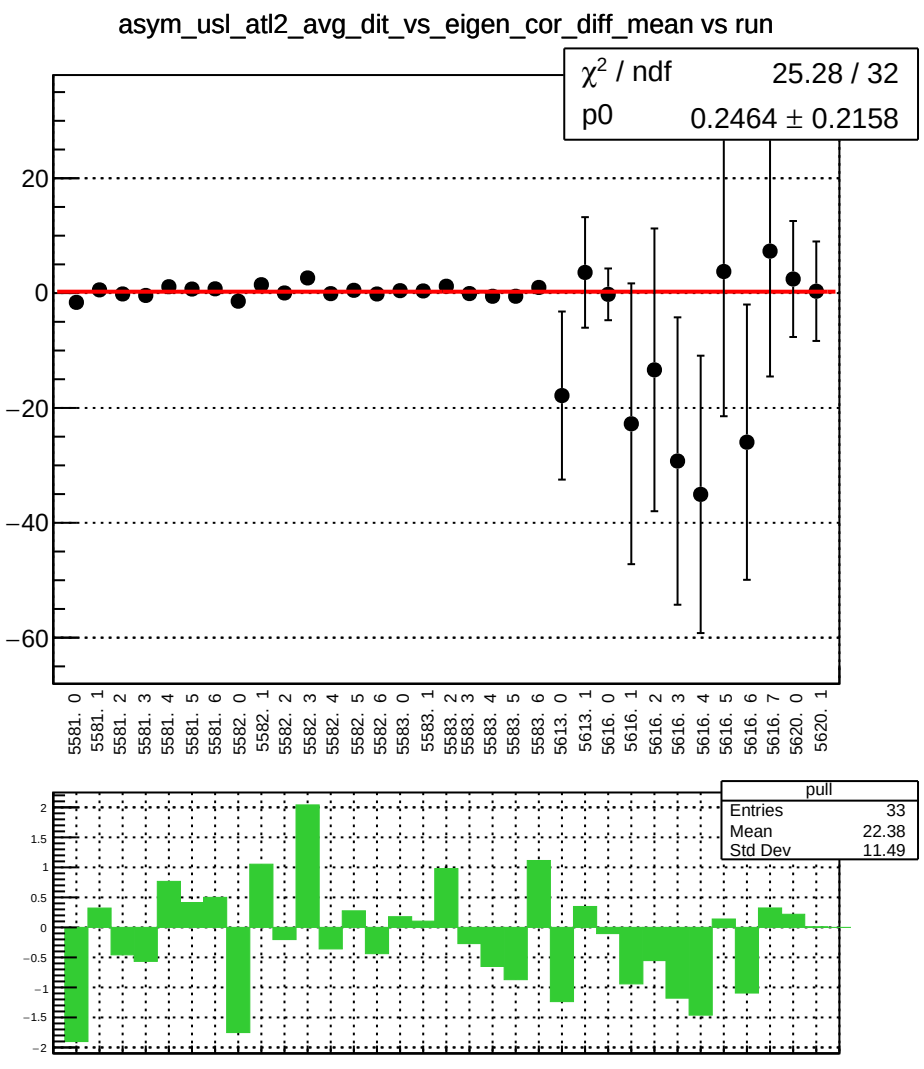

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 22.2 / 32
p0 −8.919e−14 ± 1.385e−13
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 11.37
Std Dev 17.99
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.05508
Std Dev 0.8183
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

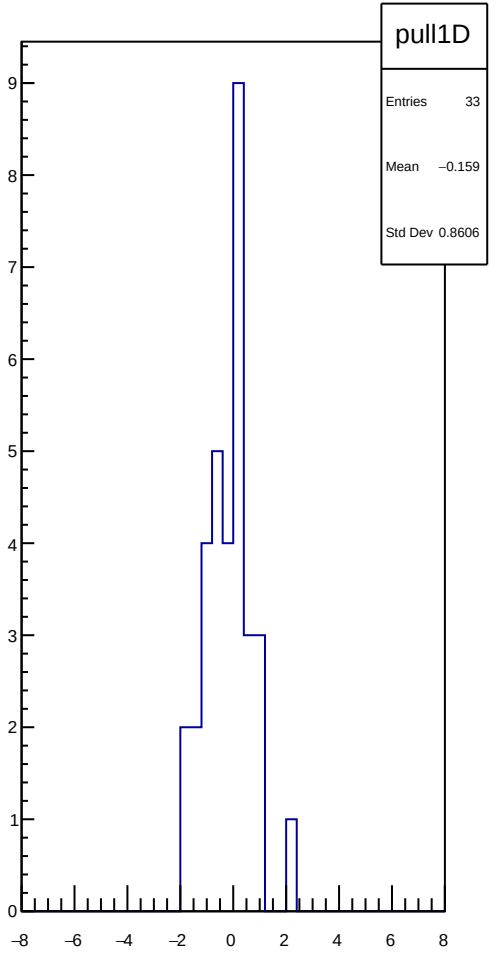

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.38e+05 / 32
p0 4.531e−11 ± 9.795e−14
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

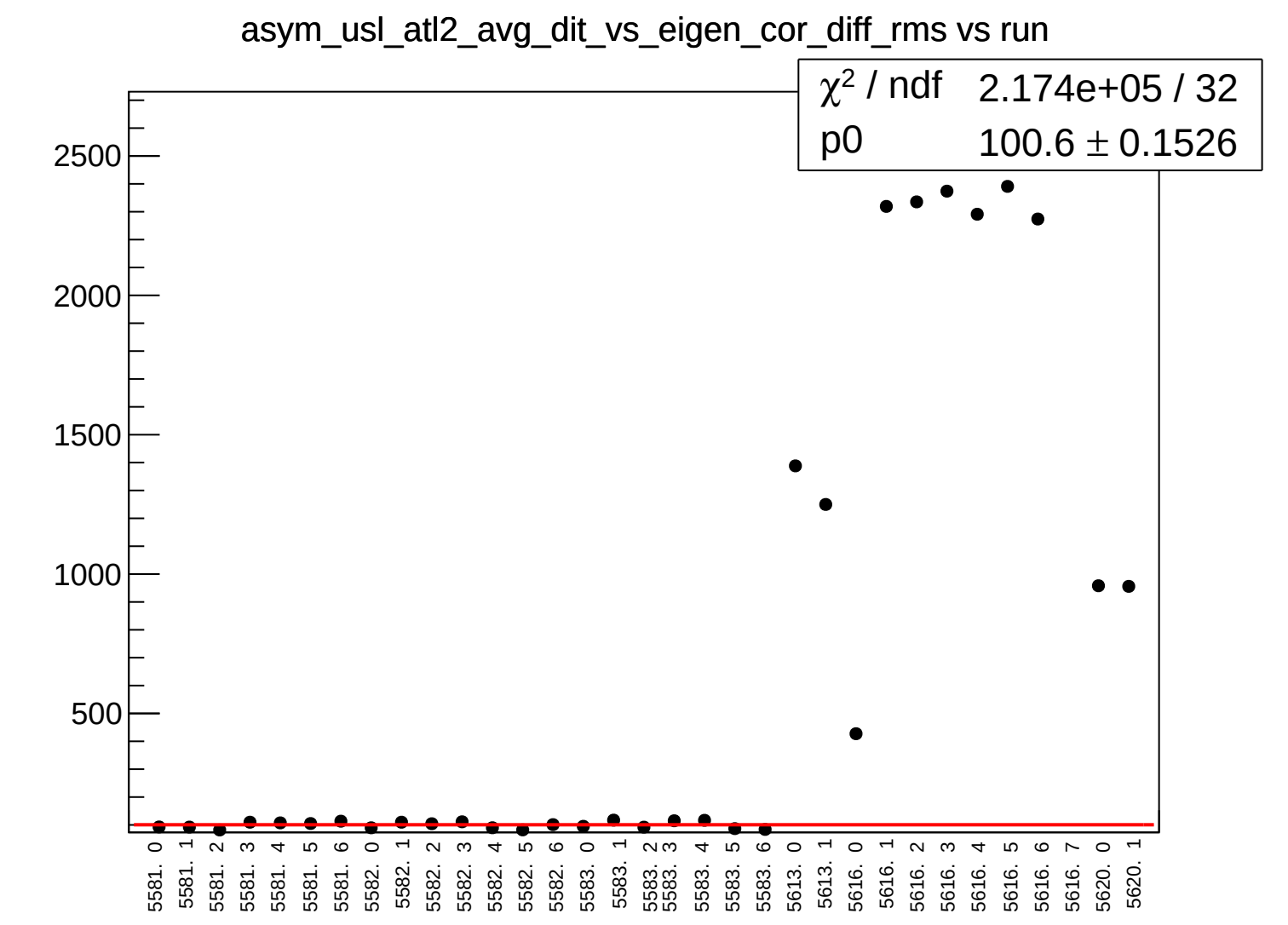

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 25.28 / 32
p0 0.2464 ± 0.2158
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.38
Std Dev 11.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

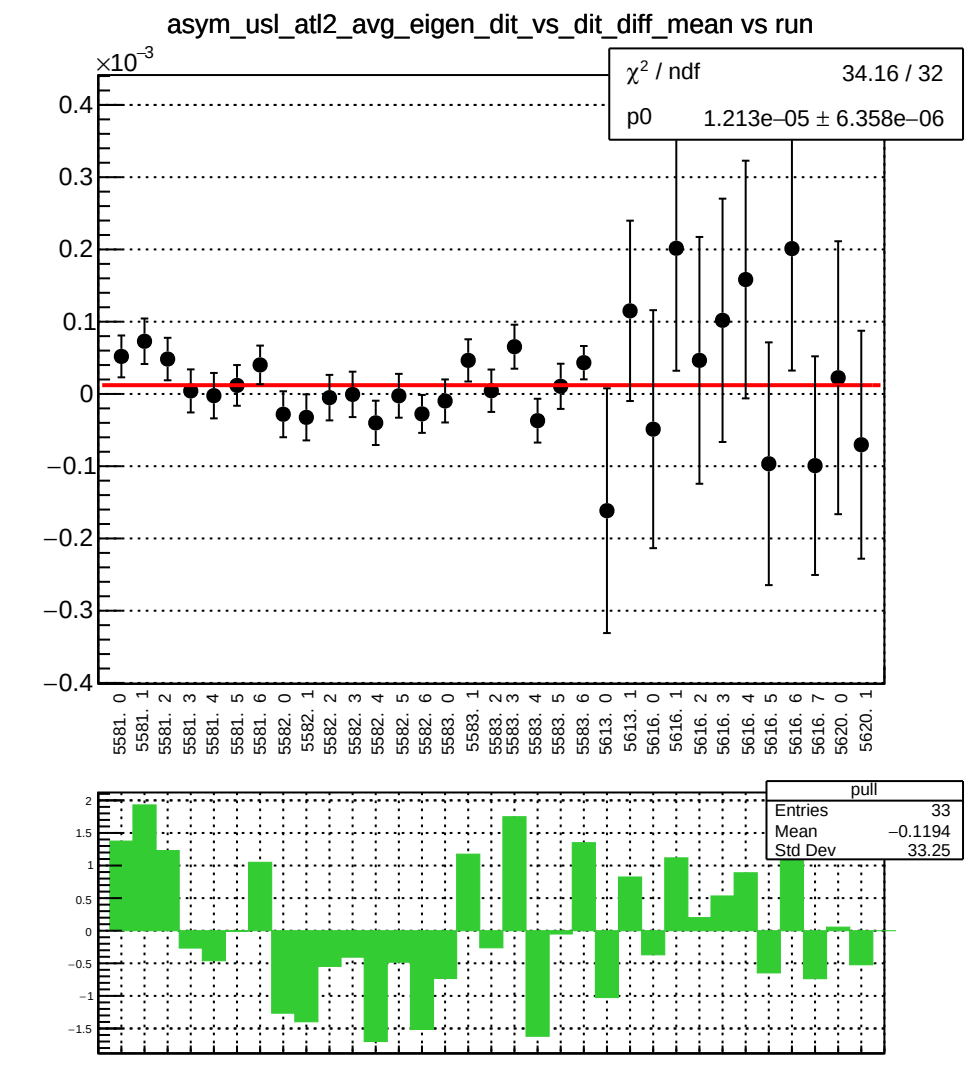

pull1D
Entries 33
Mean −0.159
Std Dev 0.8606
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

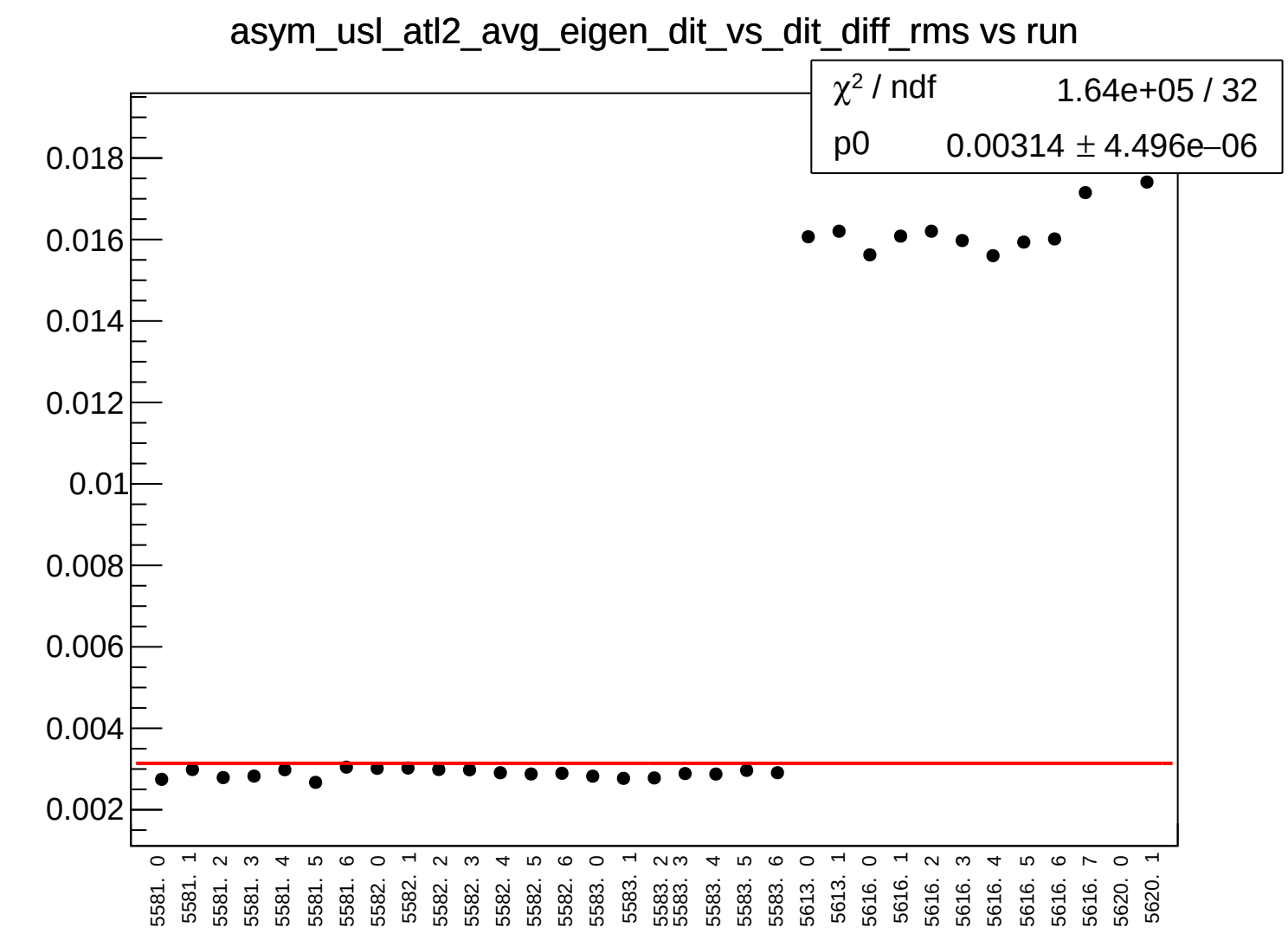

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.174e+05 / 32
p0 100.6 ± 0.1526
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

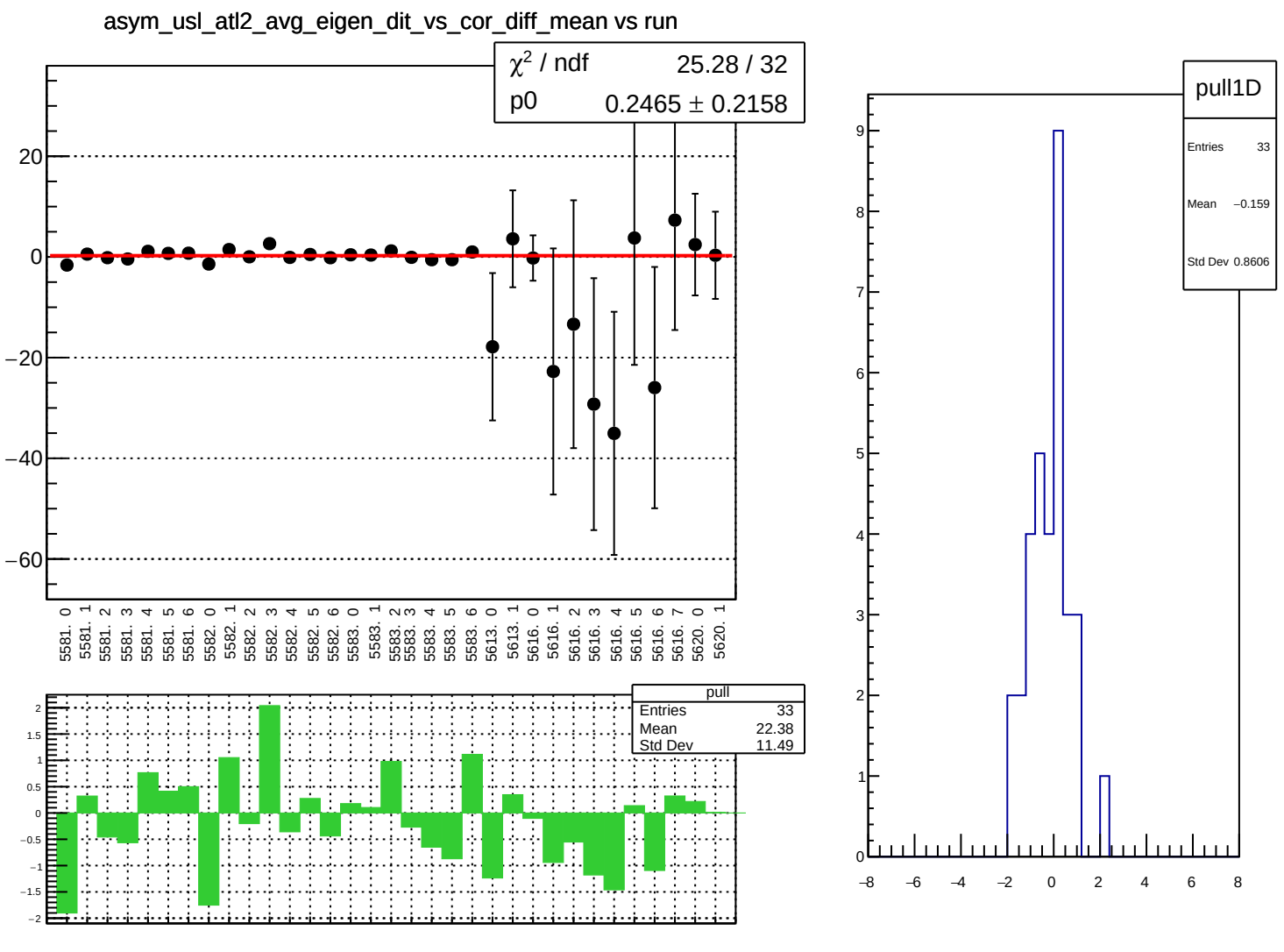

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.28 / 32
p0 0.2464 ± 0.2158
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.38
Std Dev 11.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

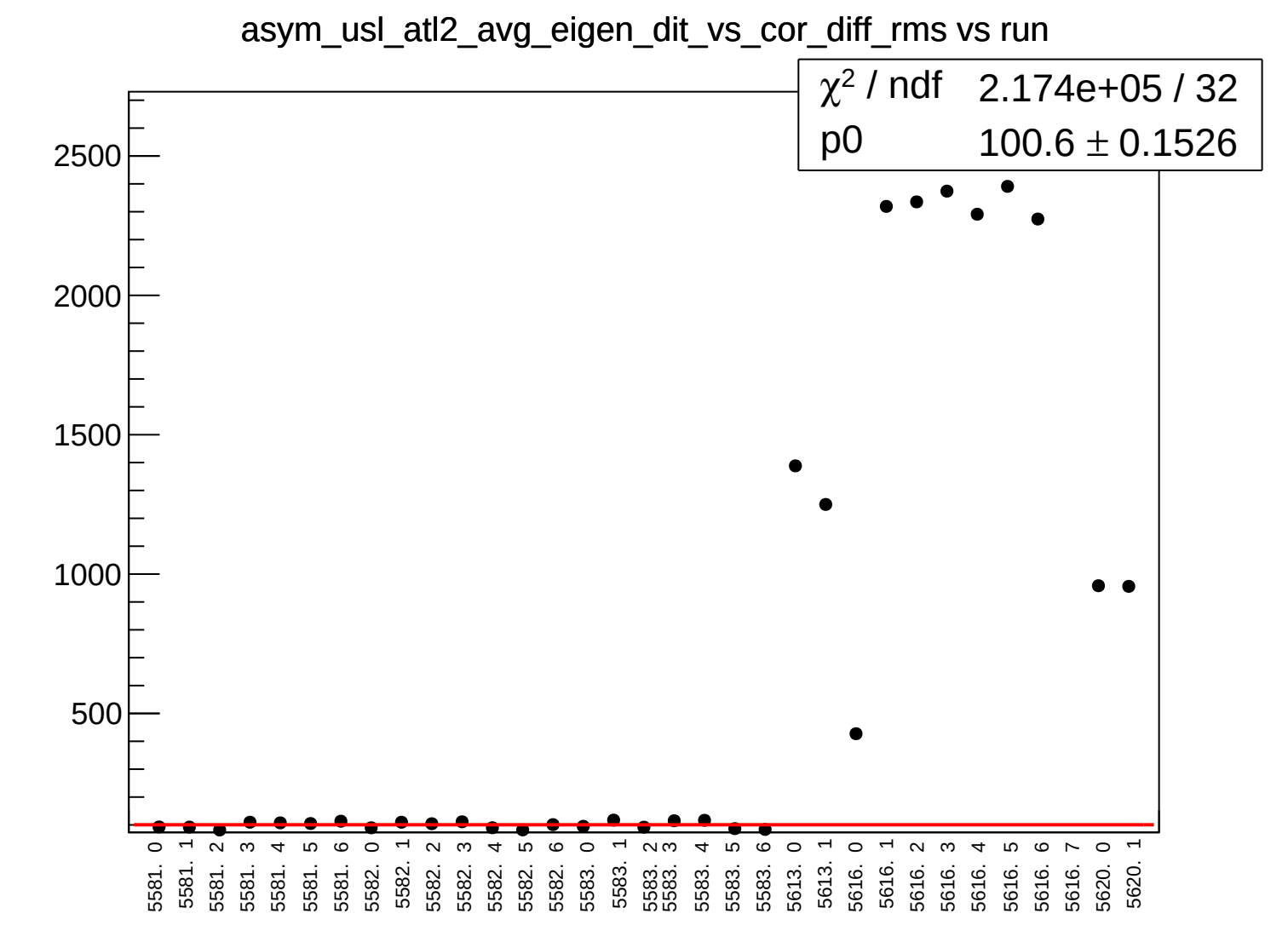

pull1D
Entries 33
Mean −0.159
Std Dev 0.8606
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

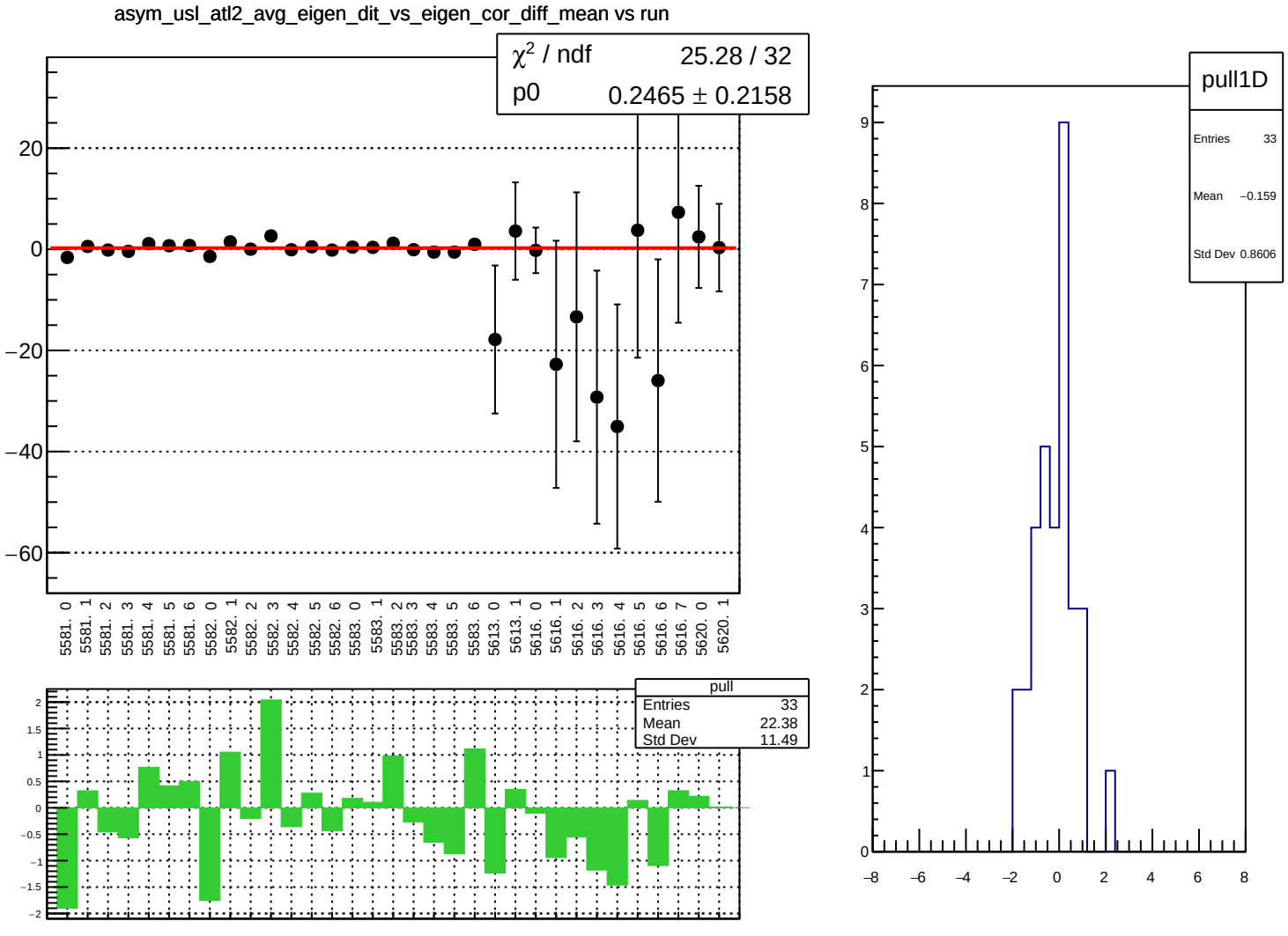

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.174e+05 / 32
p0 100.6 ± 0.1526
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

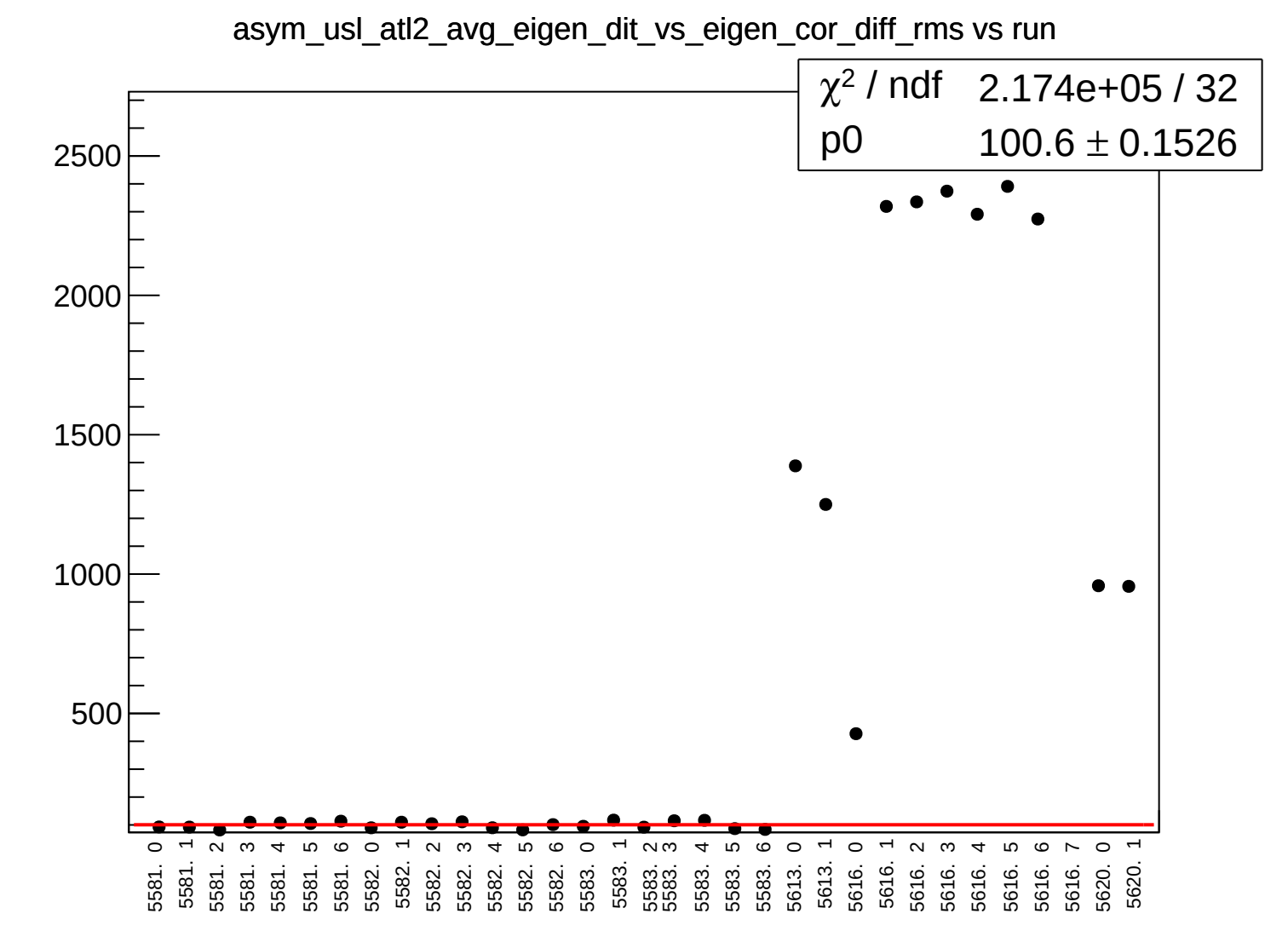

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 34.16 / 32
p0 1.213e−05 ± 6.358e−06
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.1194
Std Dev 33.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.01759
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

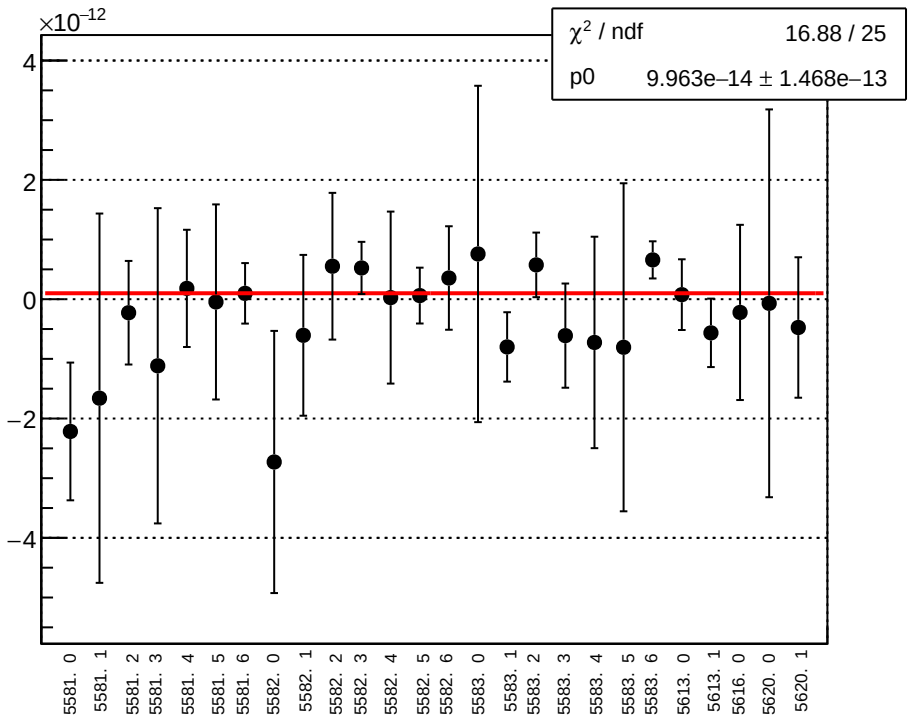

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.64e+05 / 32
p0 0.00314 ± 4.496e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

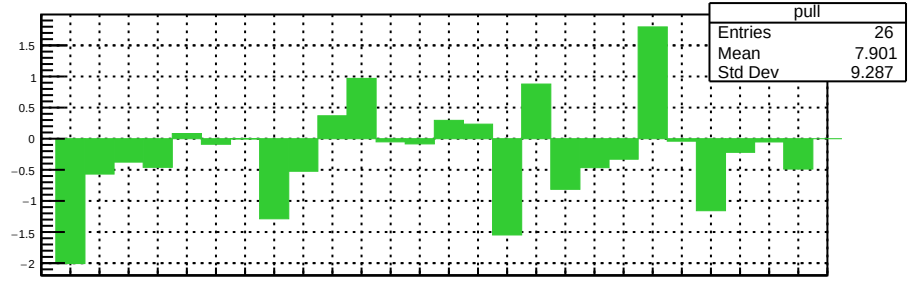

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.28 / 32
p0 0.2465 ± 0.2158
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.38
Std Dev 11.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.159
Std Dev 0.8606
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

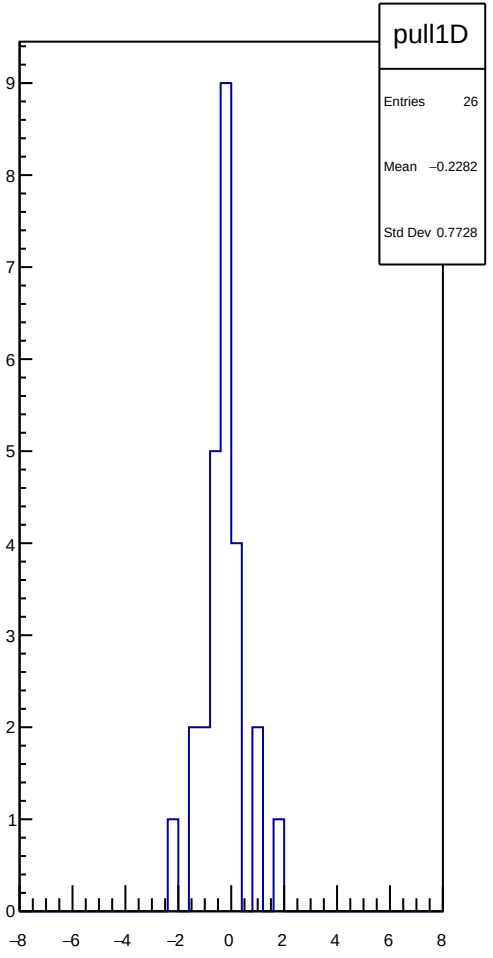

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.174e+05 / 32
p0 100.6 ± 0.1526
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

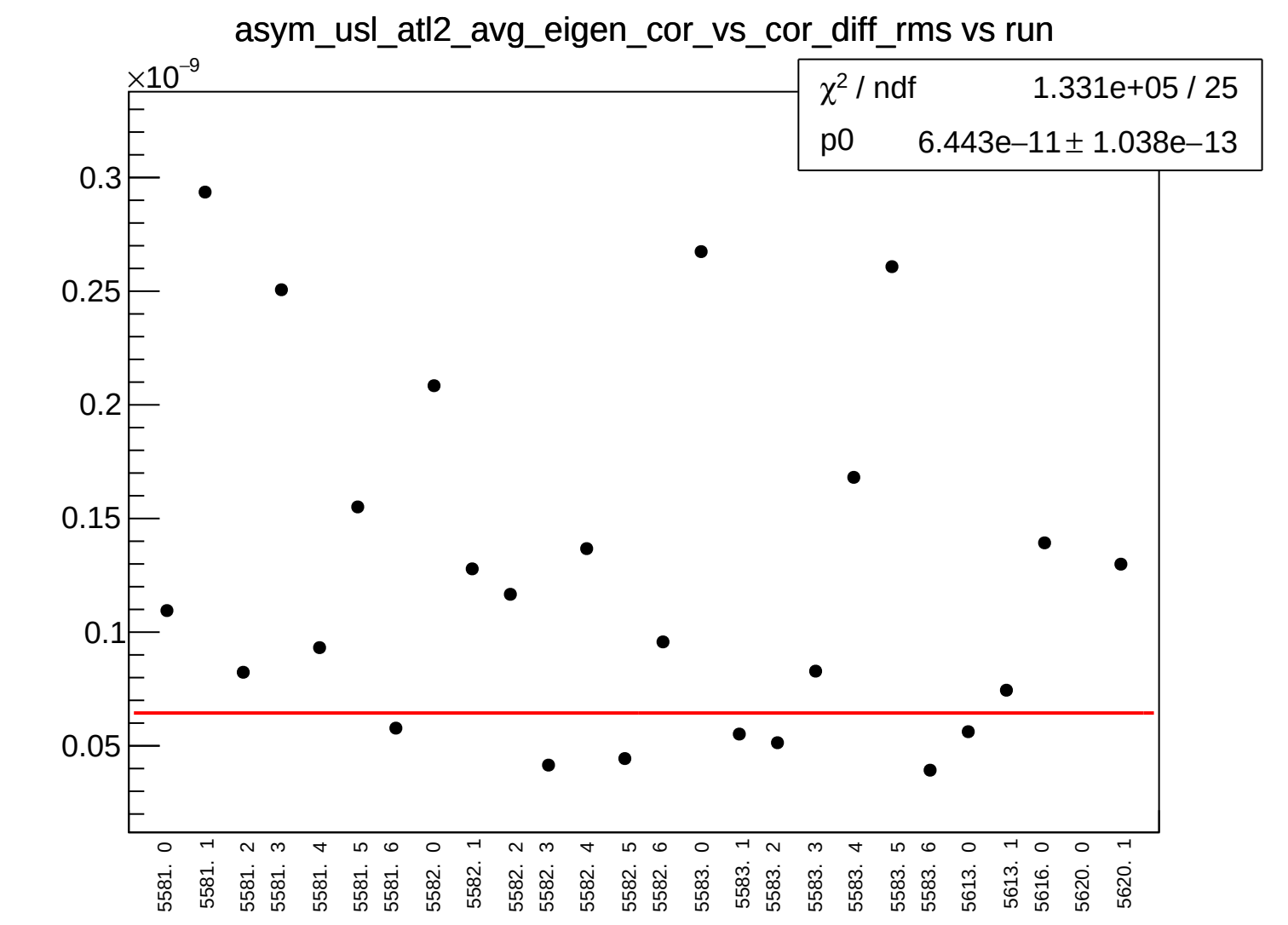

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.28 / 32
p0 0.2465 ± 0.2158
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.38
Std Dev 11.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.159
Std Dev 0.8606
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

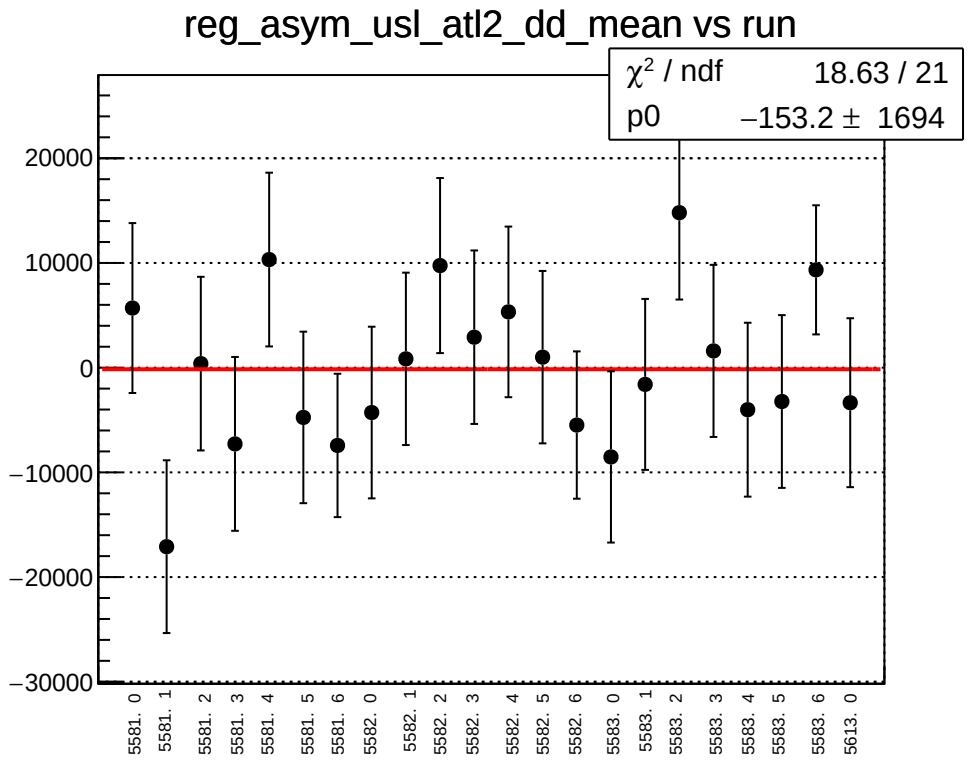

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.174e+05 / 32
p0 100.6 ± 0.1526
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

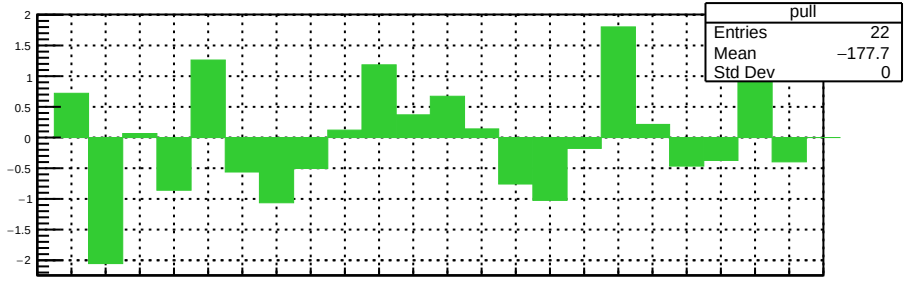

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 16.88 / 25
p0 9.963e−14 ± 1.468e−13
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

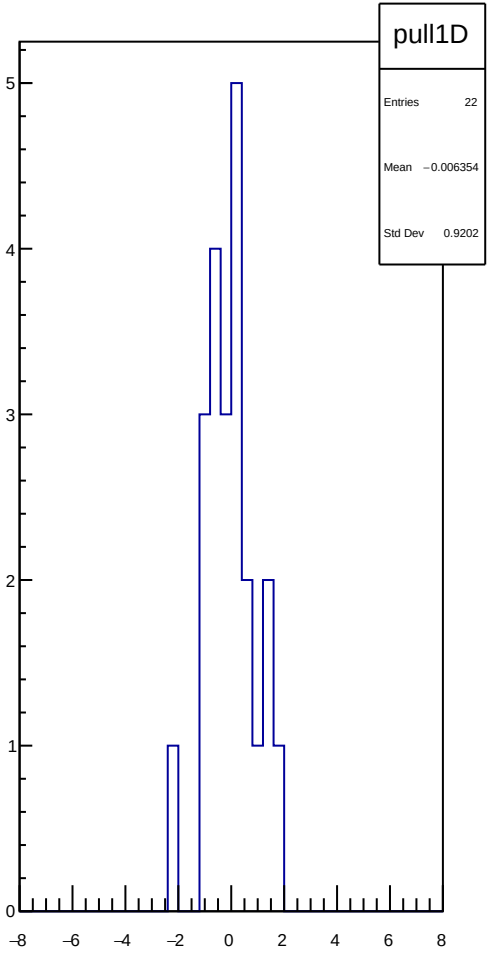

pull
Entries 26
Mean 7.901
Std Dev 9.287
1.5
1
0.5
0
−0.5
−1
−1.5
−2

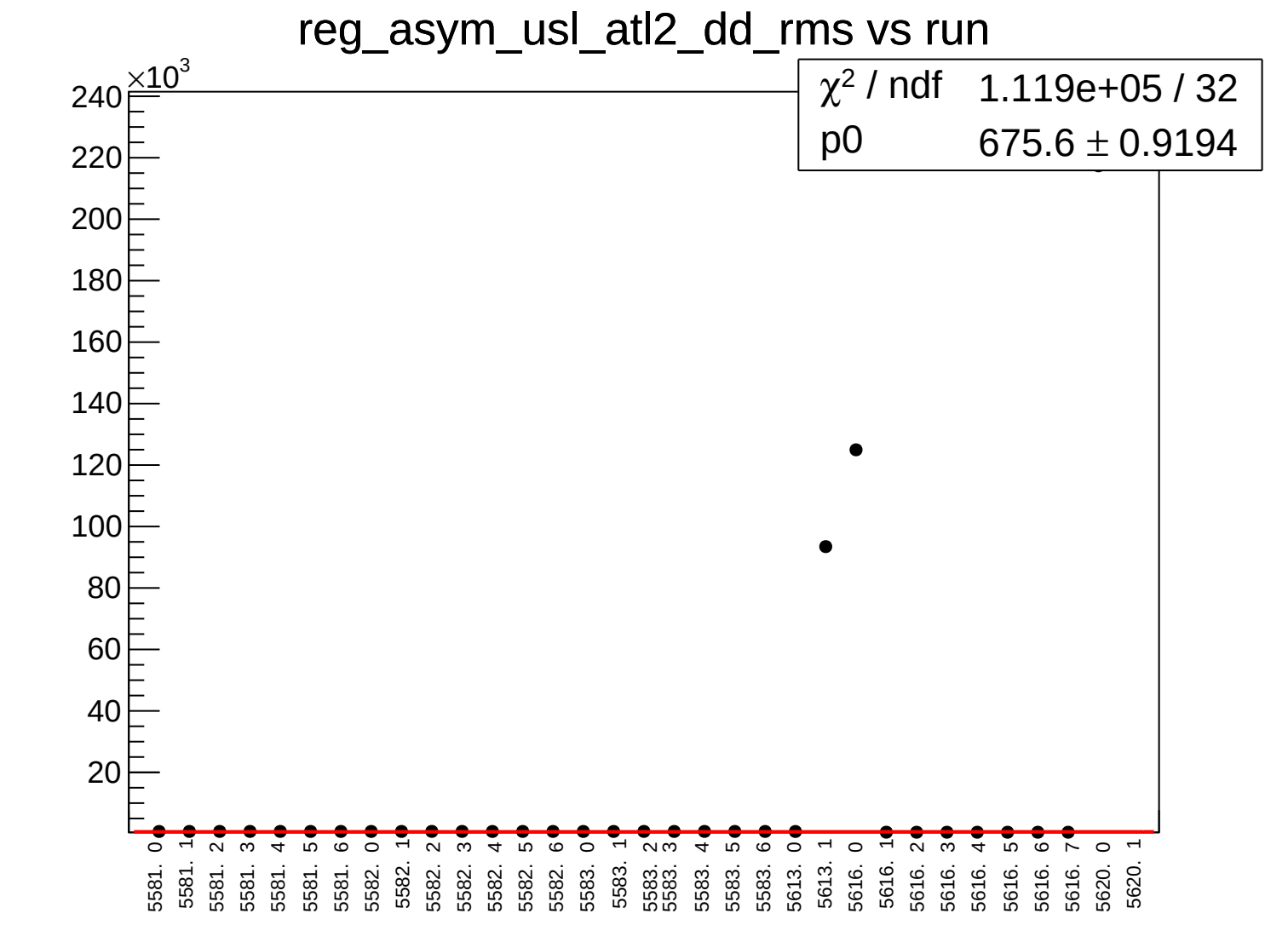

pull1D
Entries 26
Mean −0.2282
Std Dev 0.7728
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

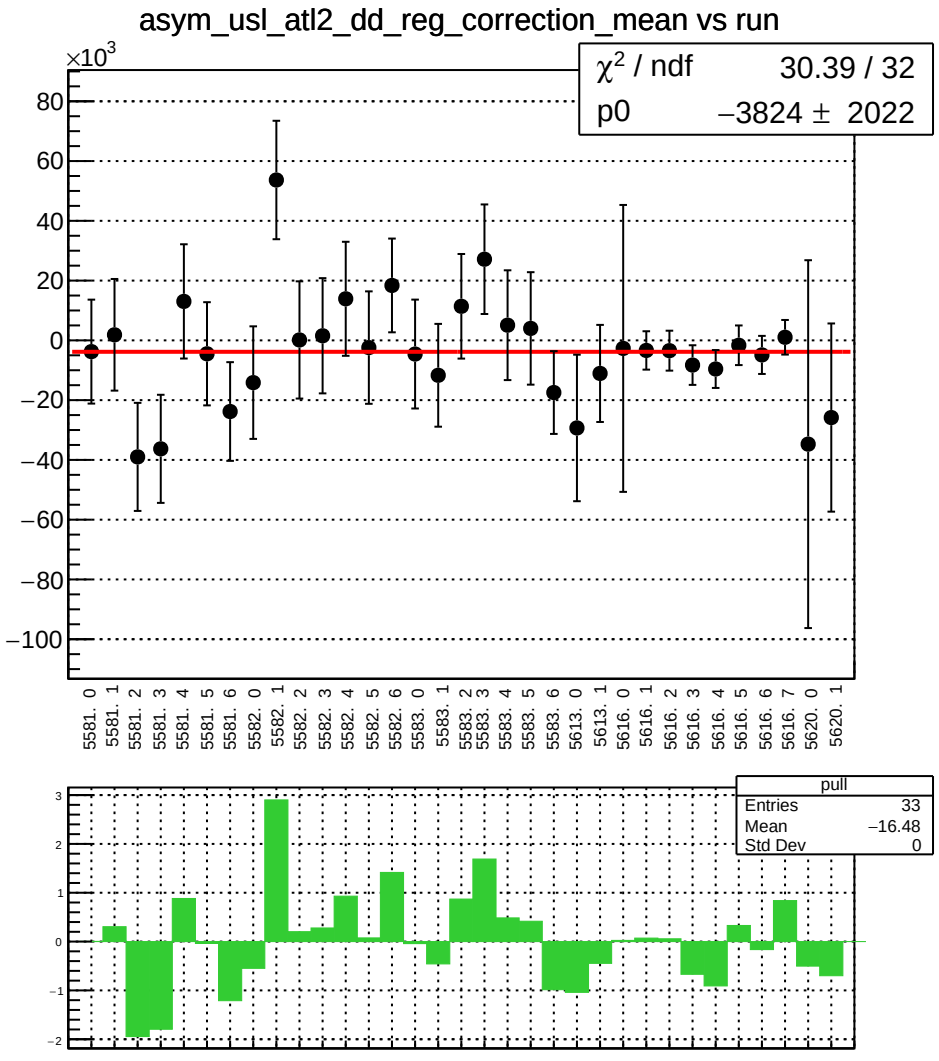

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.331e+05 / 25
p0 6.443e−11 ± 1.038e−13
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

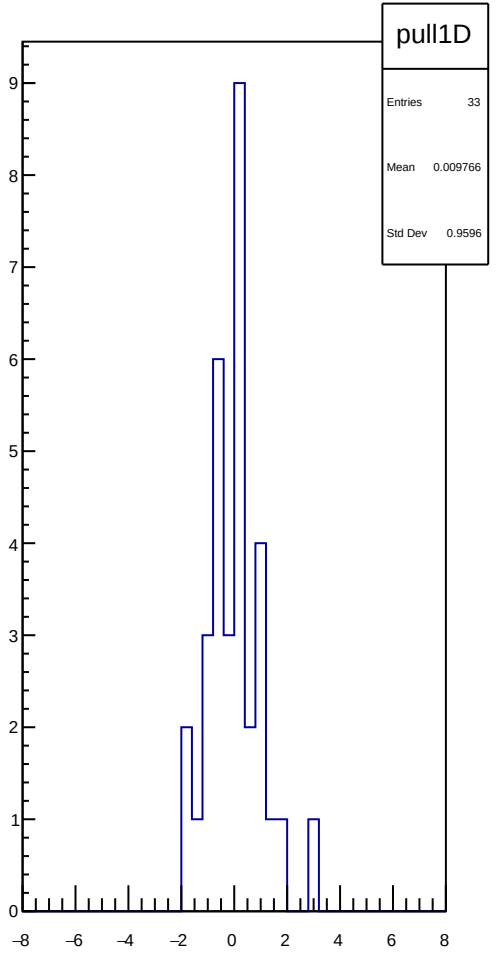

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 18.63 / 21
p0 −153.2 ± 1694
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

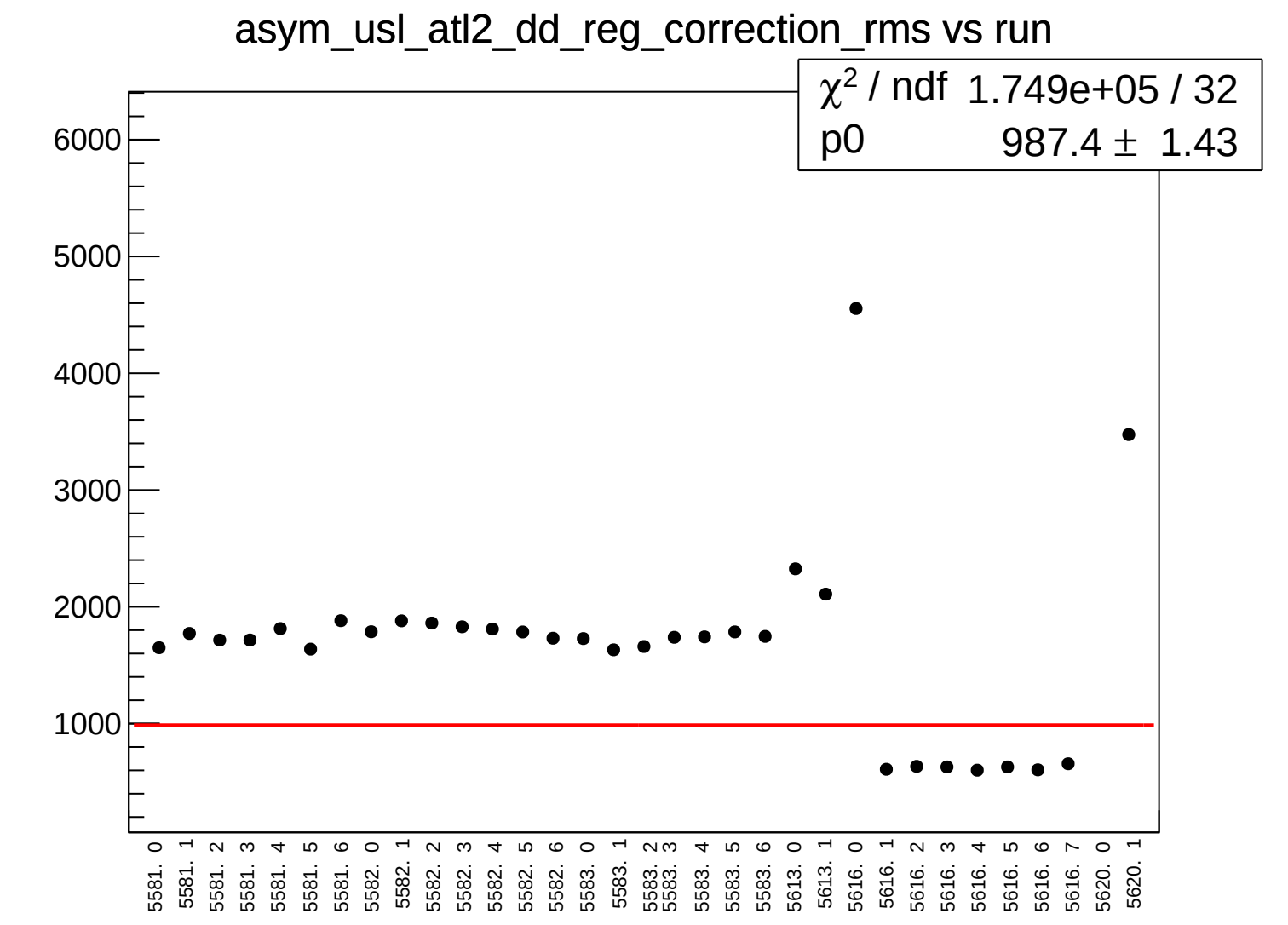

pull
Entries 22
Mean −177.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

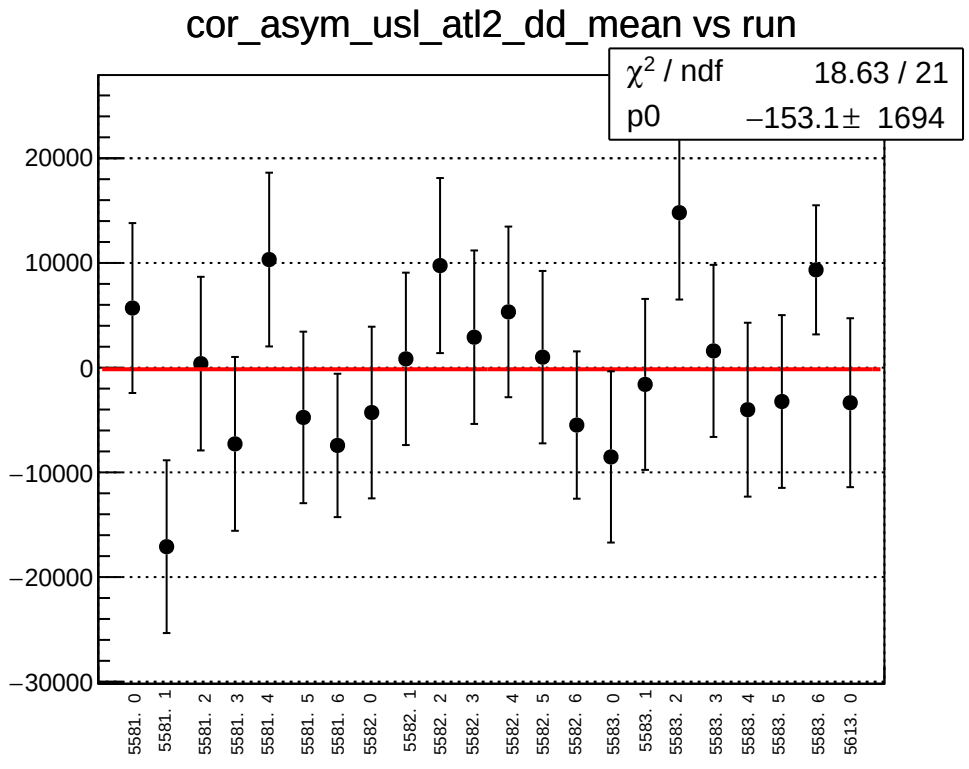

pull1D
Entries 22
Mean −0.006354
Std Dev 0.9202
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

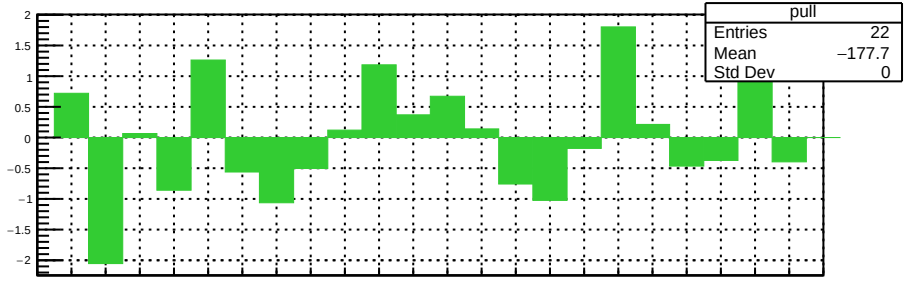

reg_asym_usl_atl2_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1.119e+05 / 32
p0 675.6 ± 0.9194
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

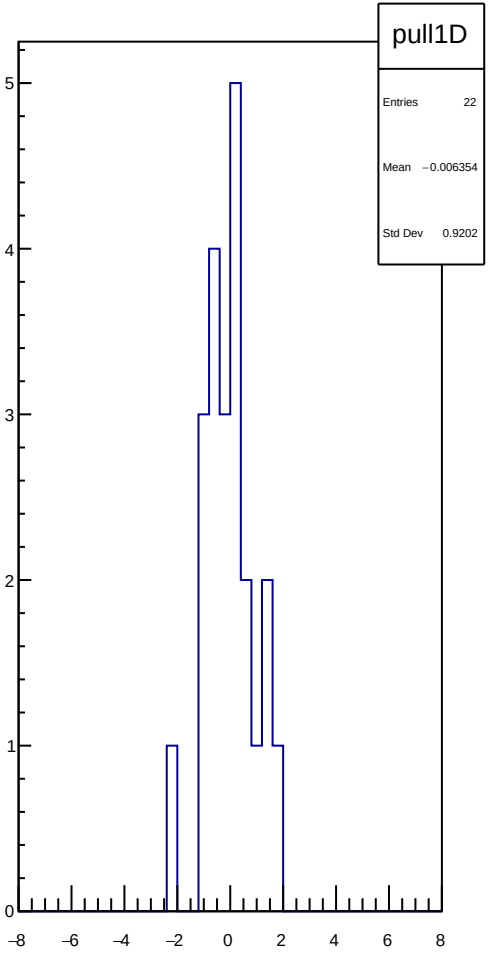

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 30.39 / 32
p0 −3824 ± 2022
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −16.48
Std Dev 0
3
2
1
0
−1
−2

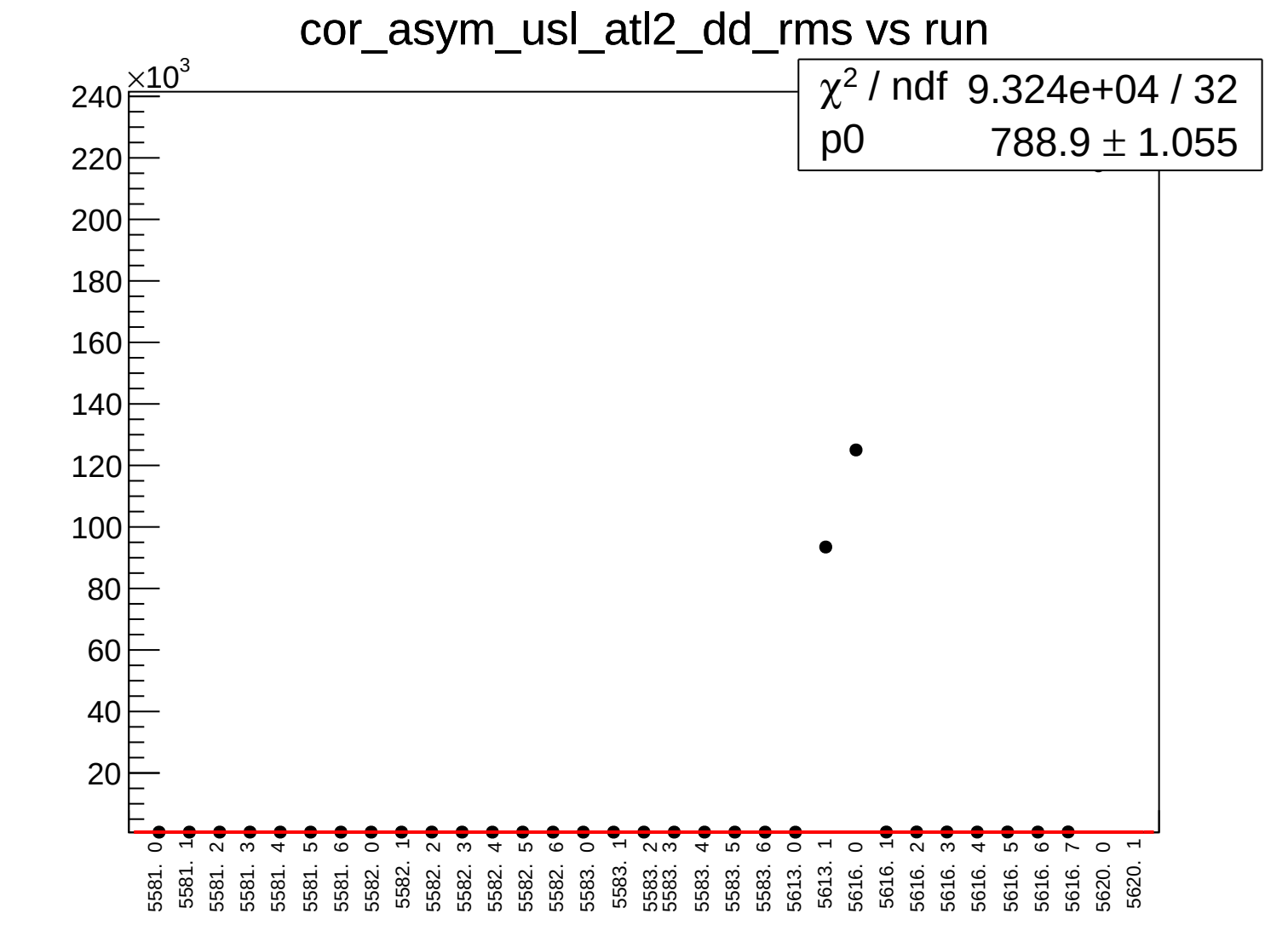

pull1D
Entries 33
Mean 0.009766
Std Dev 0.9596
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

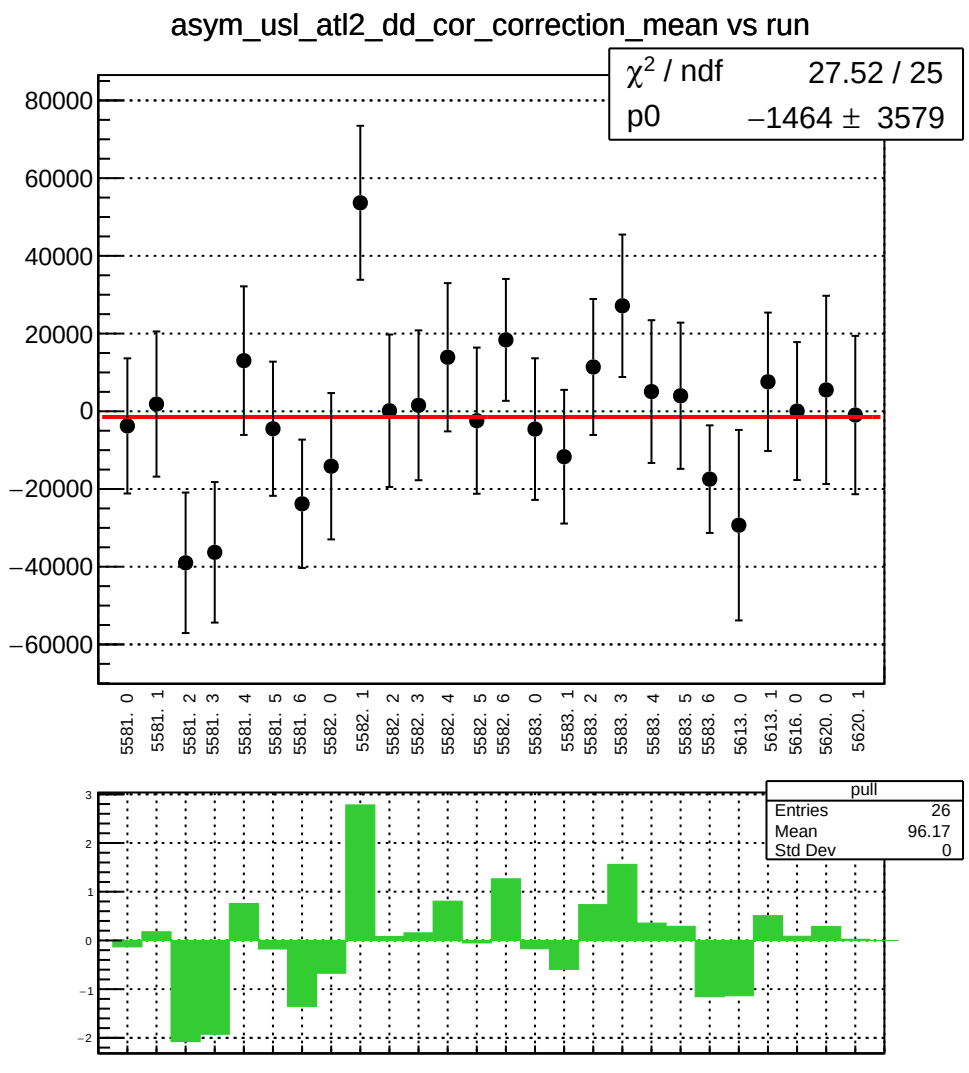

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.749e+05 / 32
p0 987.4 ± 1.43
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

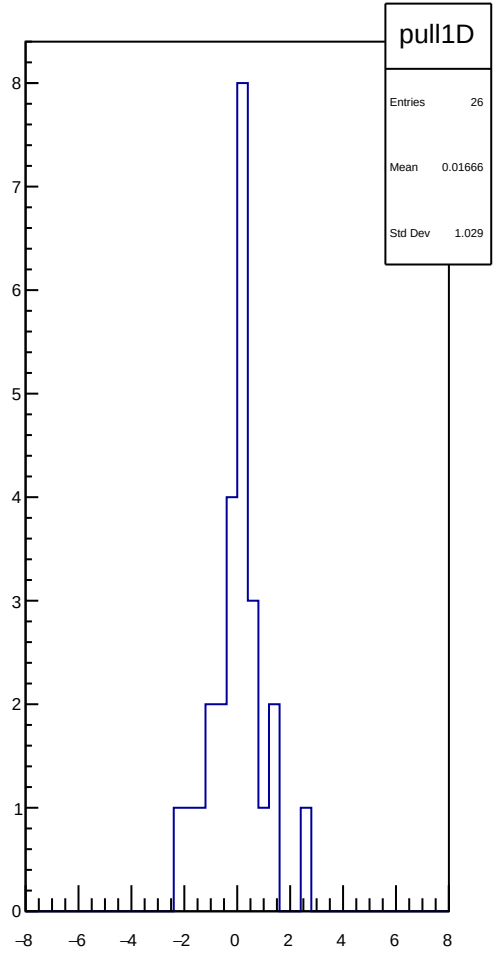

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 18.63 / 21
p0 −153.1± 1694
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

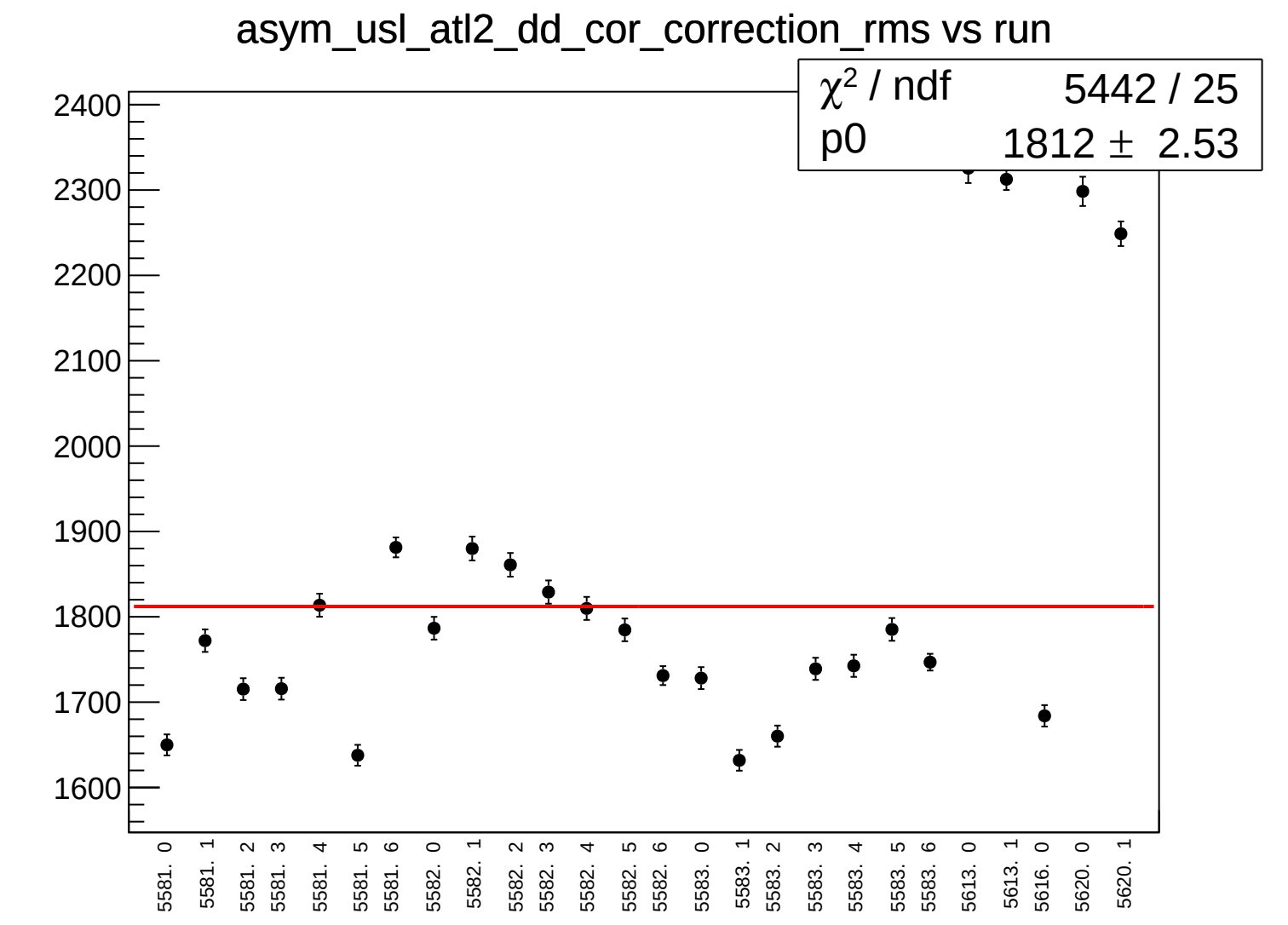

pull
Entries 22
Mean −177.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

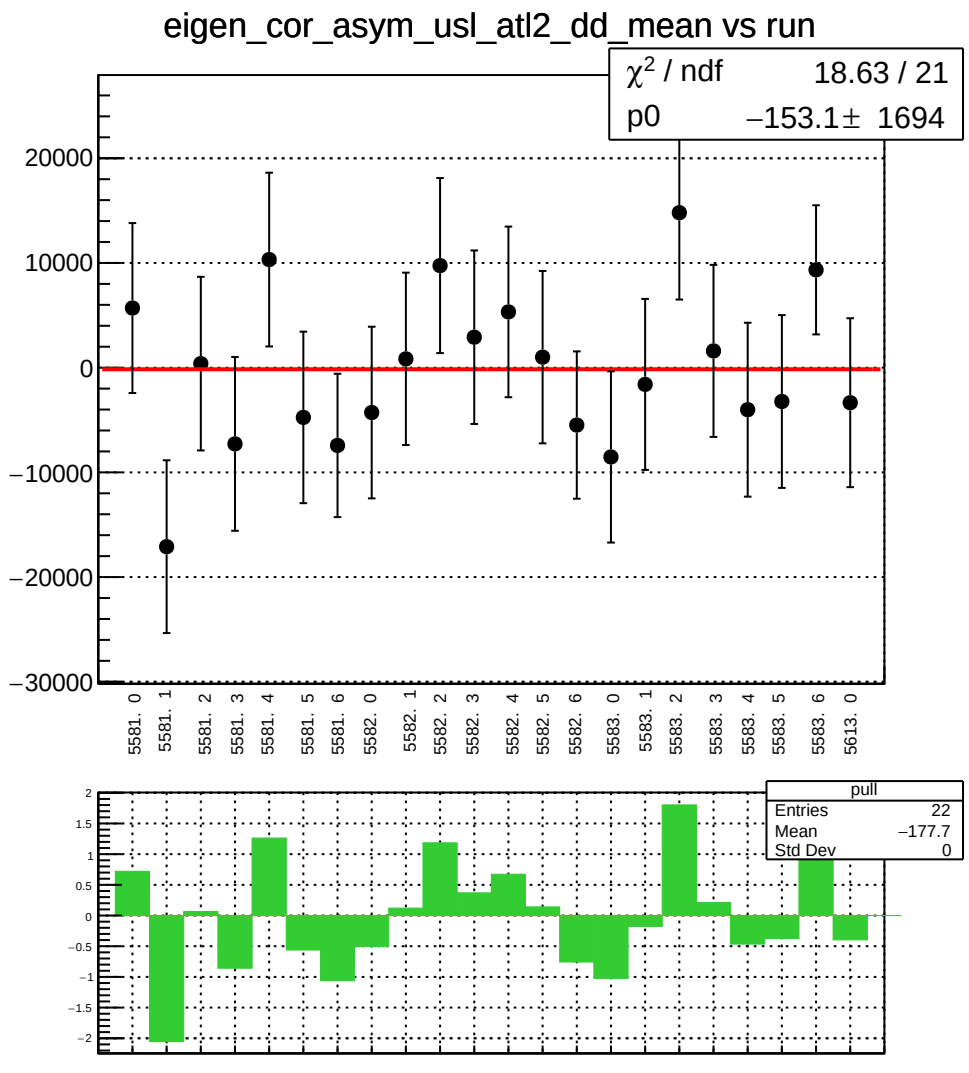

pull1D
Entries 22
Mean −0.006354
Std Dev 0.9202
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

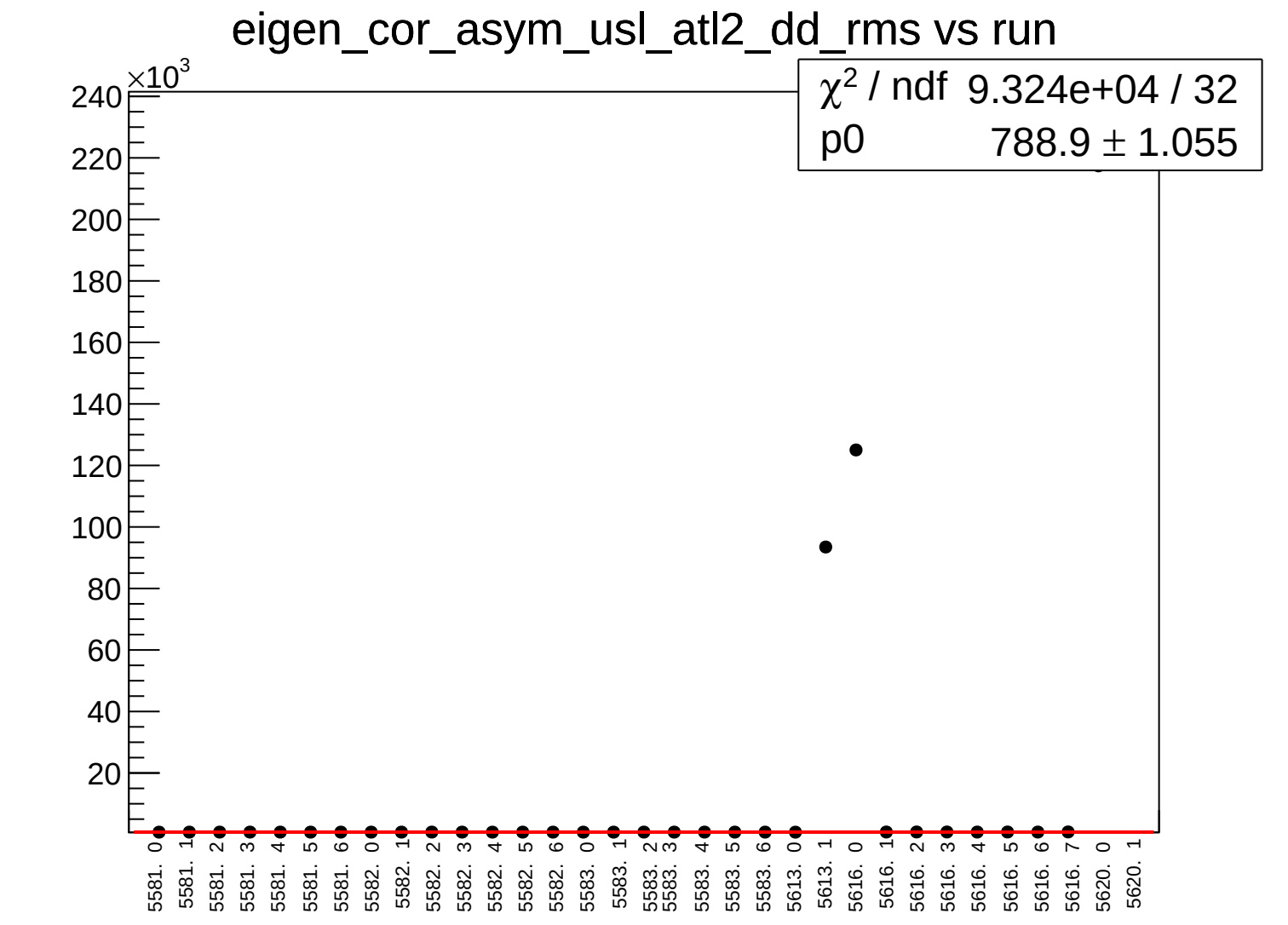

cor_asym_usl_atl2_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 9.324e+04 / 32
p0 788.9 ± 1.055
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

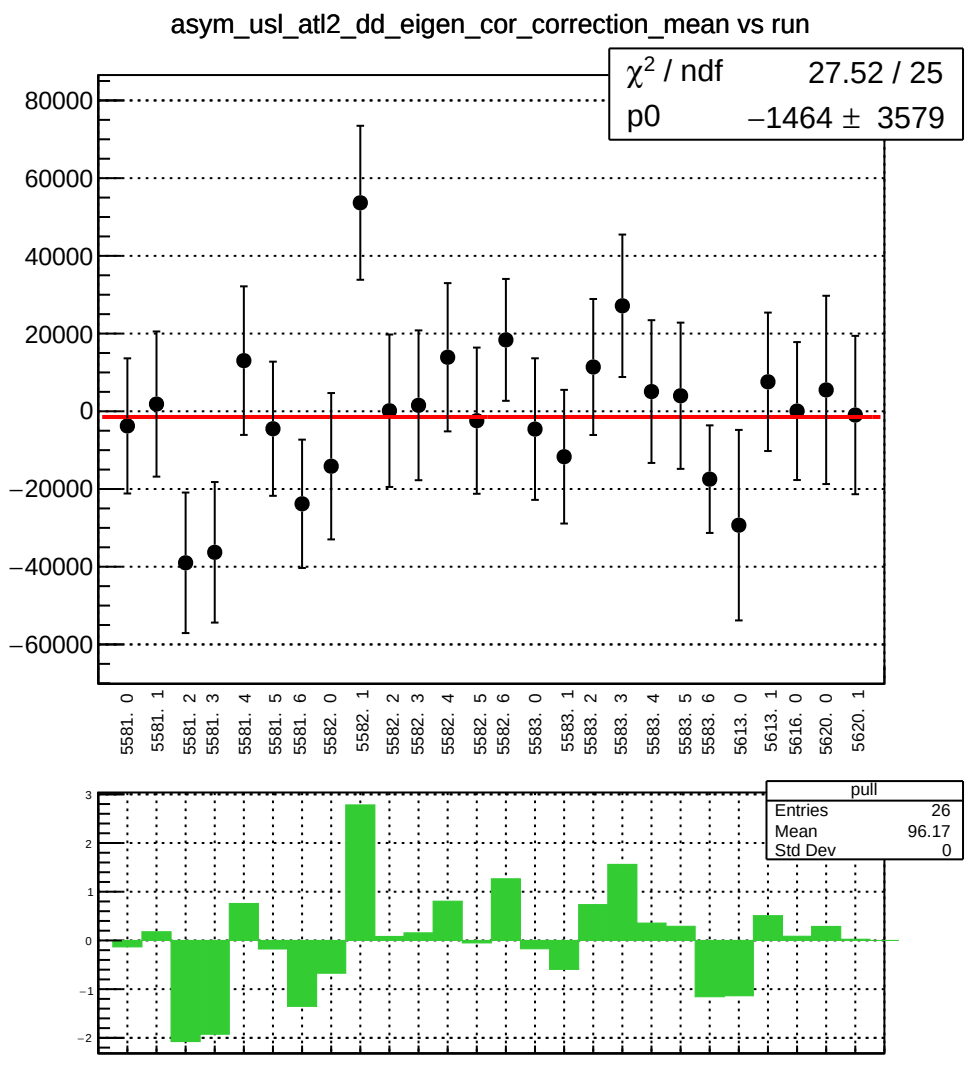

asym_usl_atl2_dd_cor_correction_mean vs run
χ² / ndf 27.52 / 25
p0 −1464 ± 3579
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 96.17
Std Dev 0
3
2
1
0
−1
−2

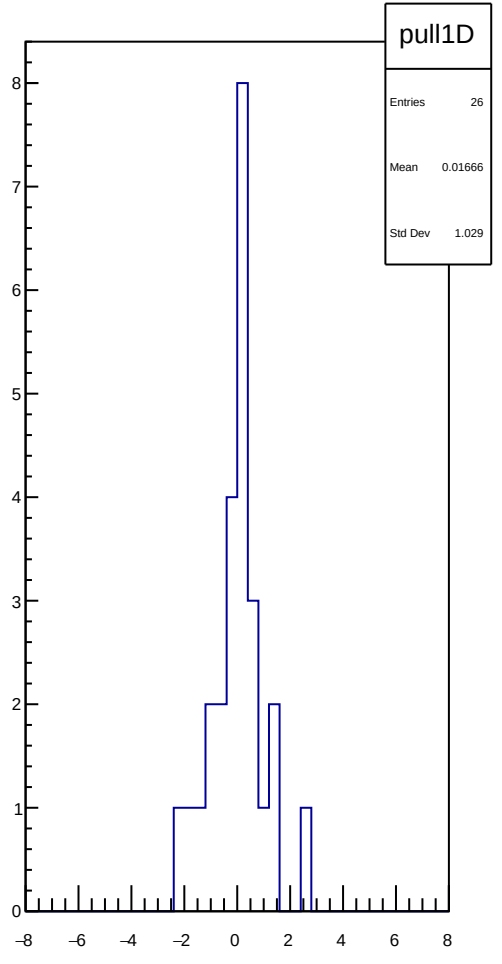

pull1D
Entries 26
Mean 0.01666
Std Dev 1.029
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

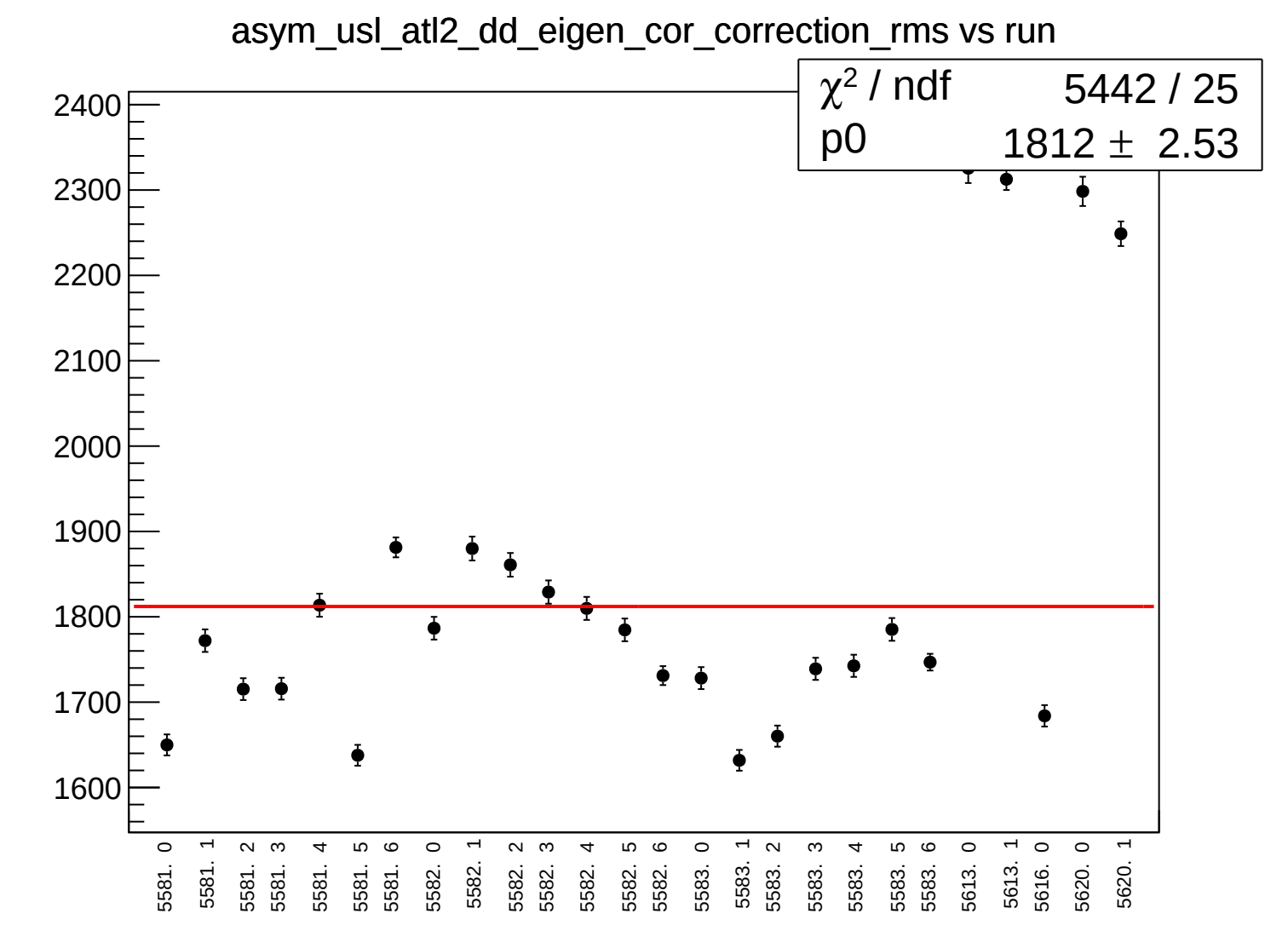

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 5442 / 25
p0 1812 ± 2.53
2400
2300
2200
2100
2000
1900
1800
1700
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

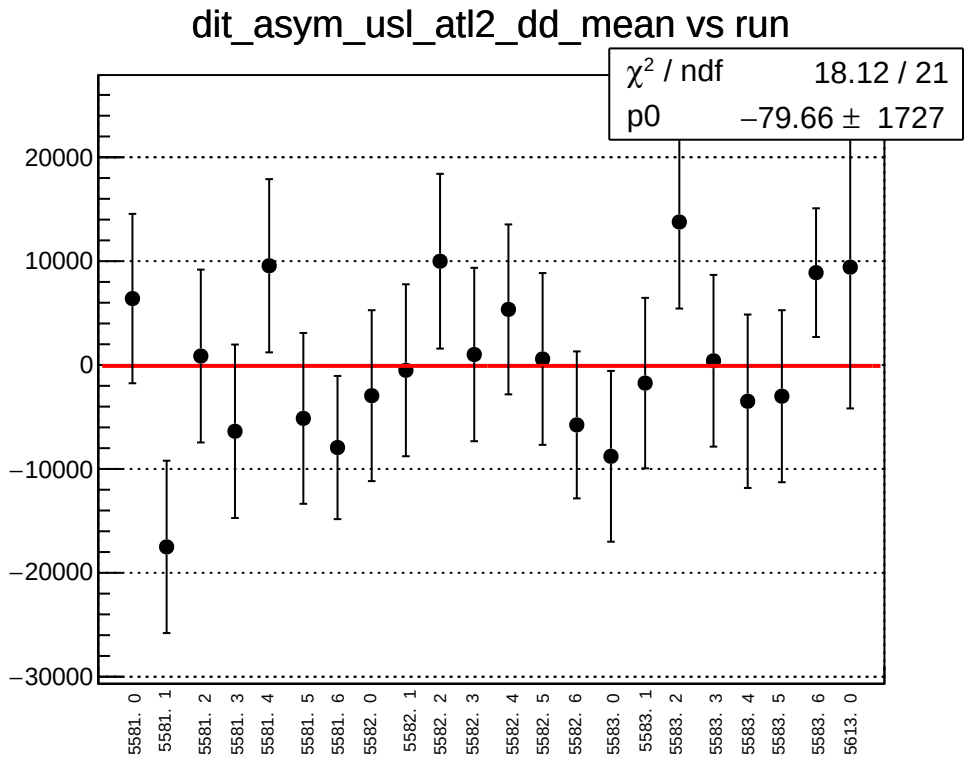

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 18.63 / 21
p0 −153.1± 1694
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean −177.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 22
Mean −0.006354
Std Dev 0.9202
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

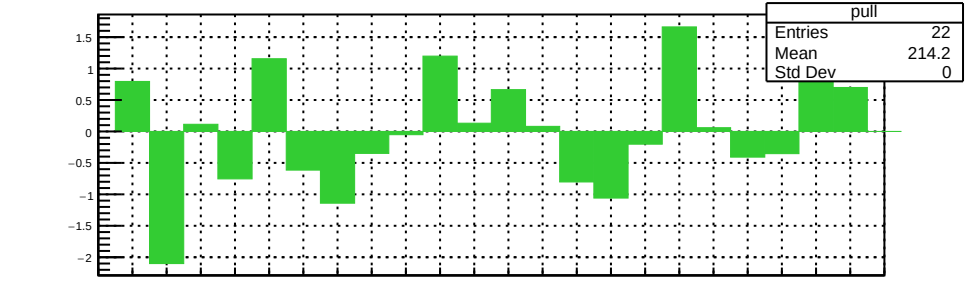

eigen_cor_asym_usl_atl2_dd_rms vs run
×10^3
χ^2 / ndf 9.324e+04 / 32
p0 788.9 ± 1.055
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

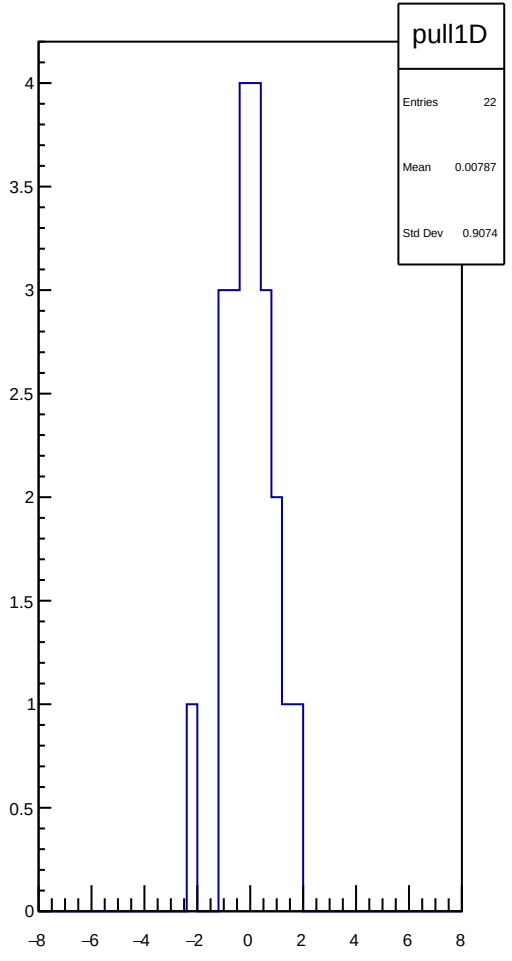

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
χ² / ndf 27.52 / 25
p0 −1464 ± 3579
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 96.17
Std Dev 0
3
2
1
0
−1
−2

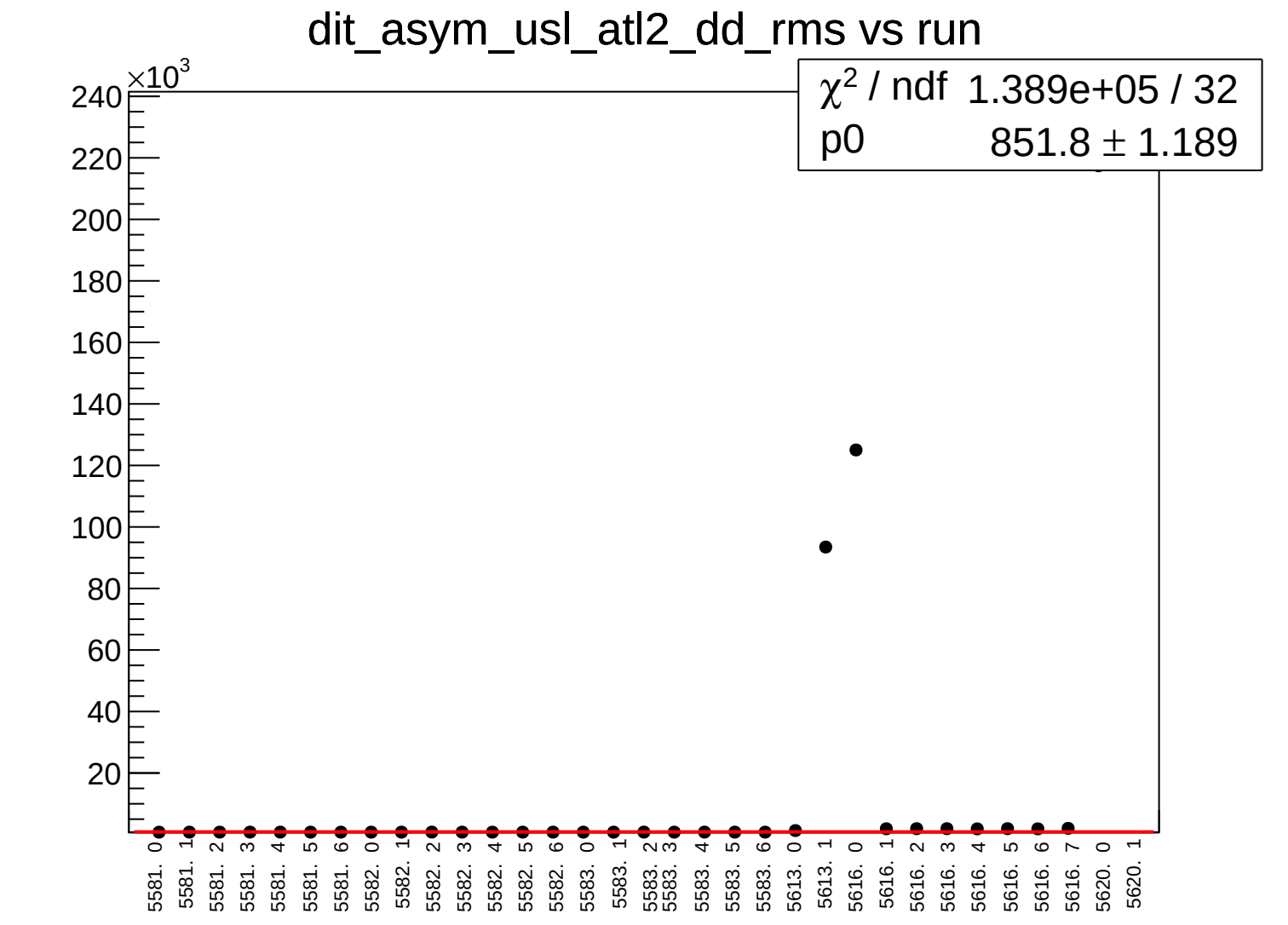

pull1D
Entries 26
Mean 0.01666
Std Dev 1.029
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

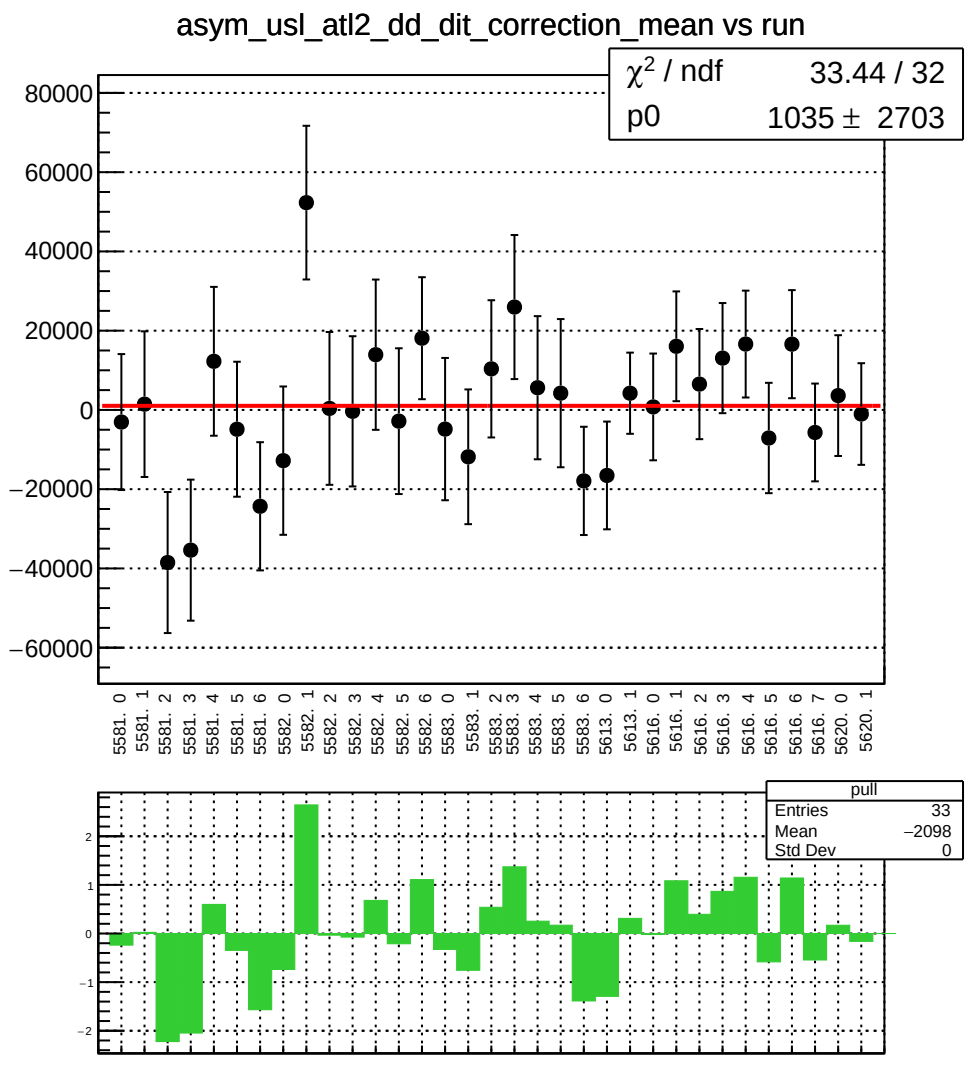

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5442 / 25
p0 1812 ± 2.53
2400
2300
2200
2100
2000
1900
1800
1700
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

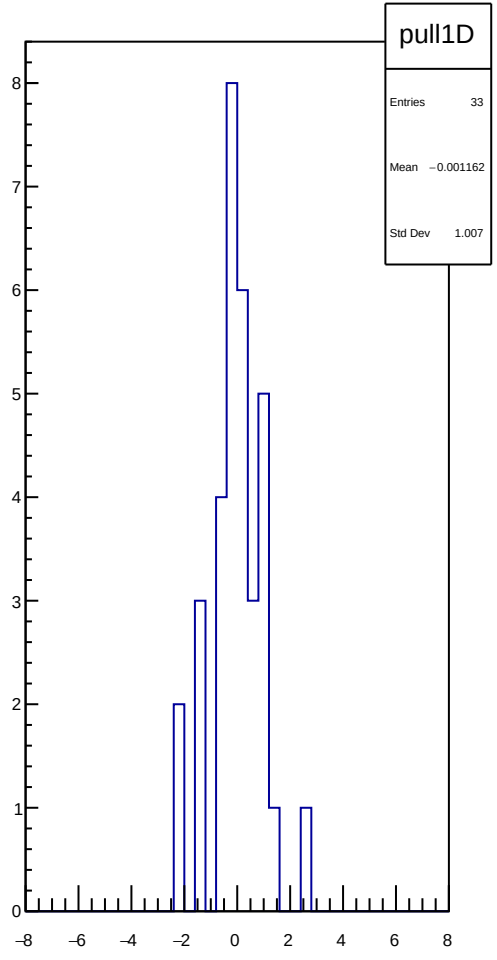

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 18.12 / 21
p0 −79.66 ± 1727
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

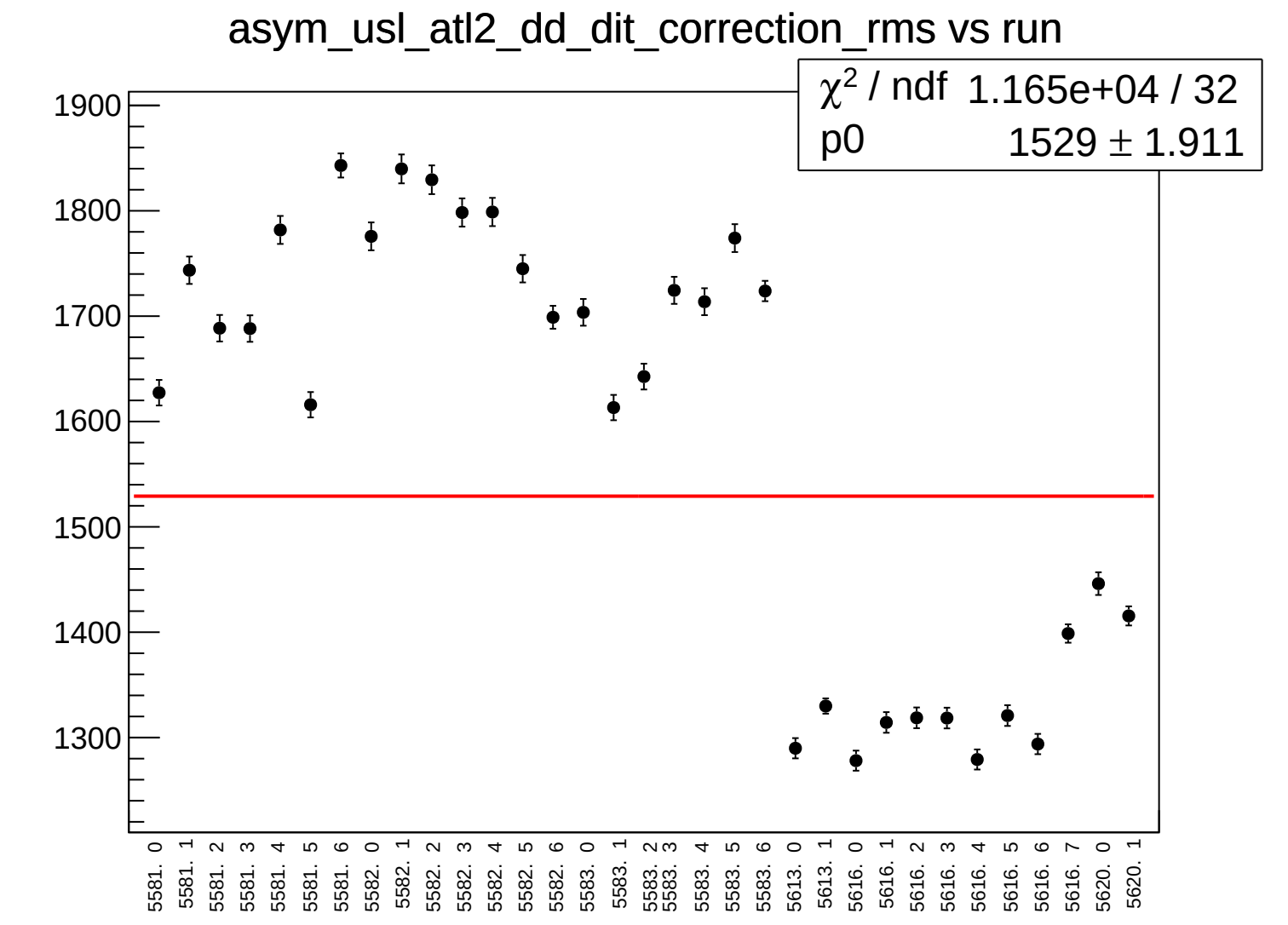

pull
Entries 22
Mean 214.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

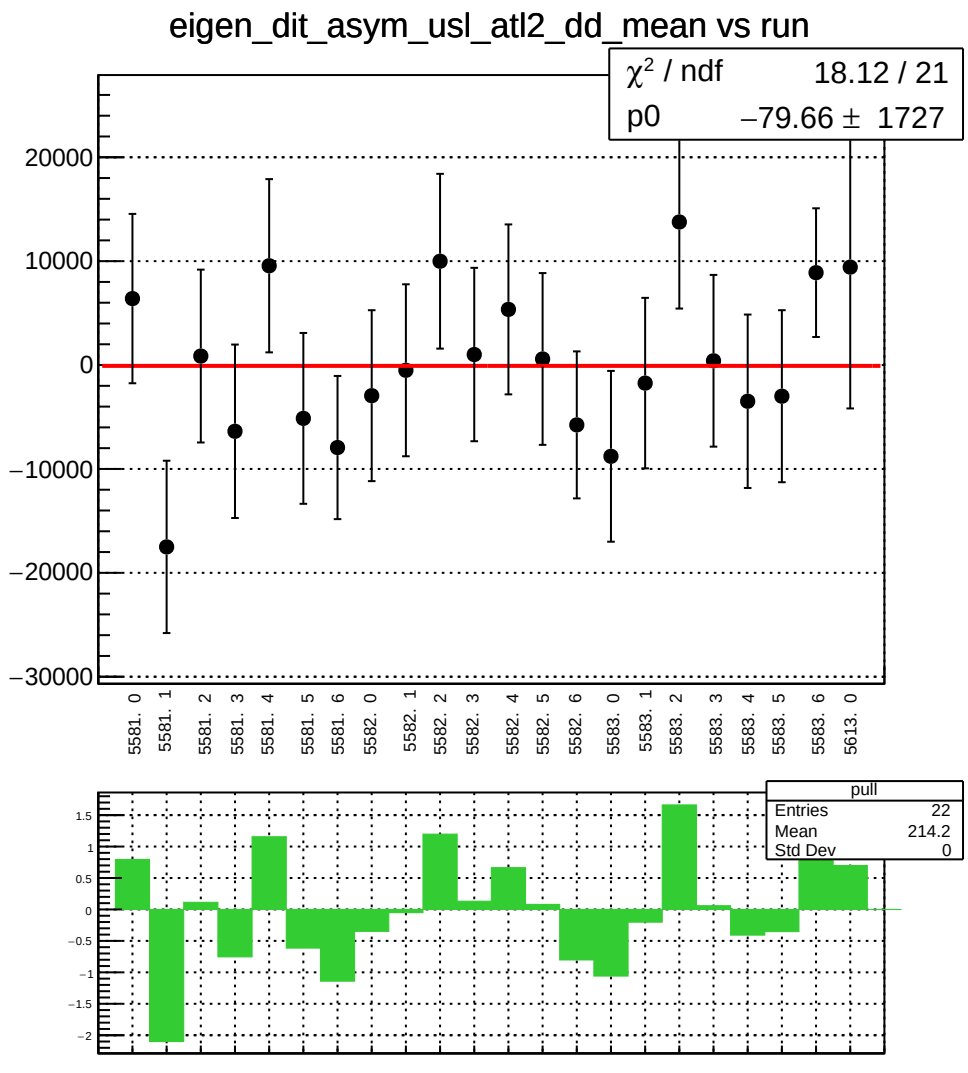

pull1D
Entries 22
Mean 0.00787
Std Dev 0.9074
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

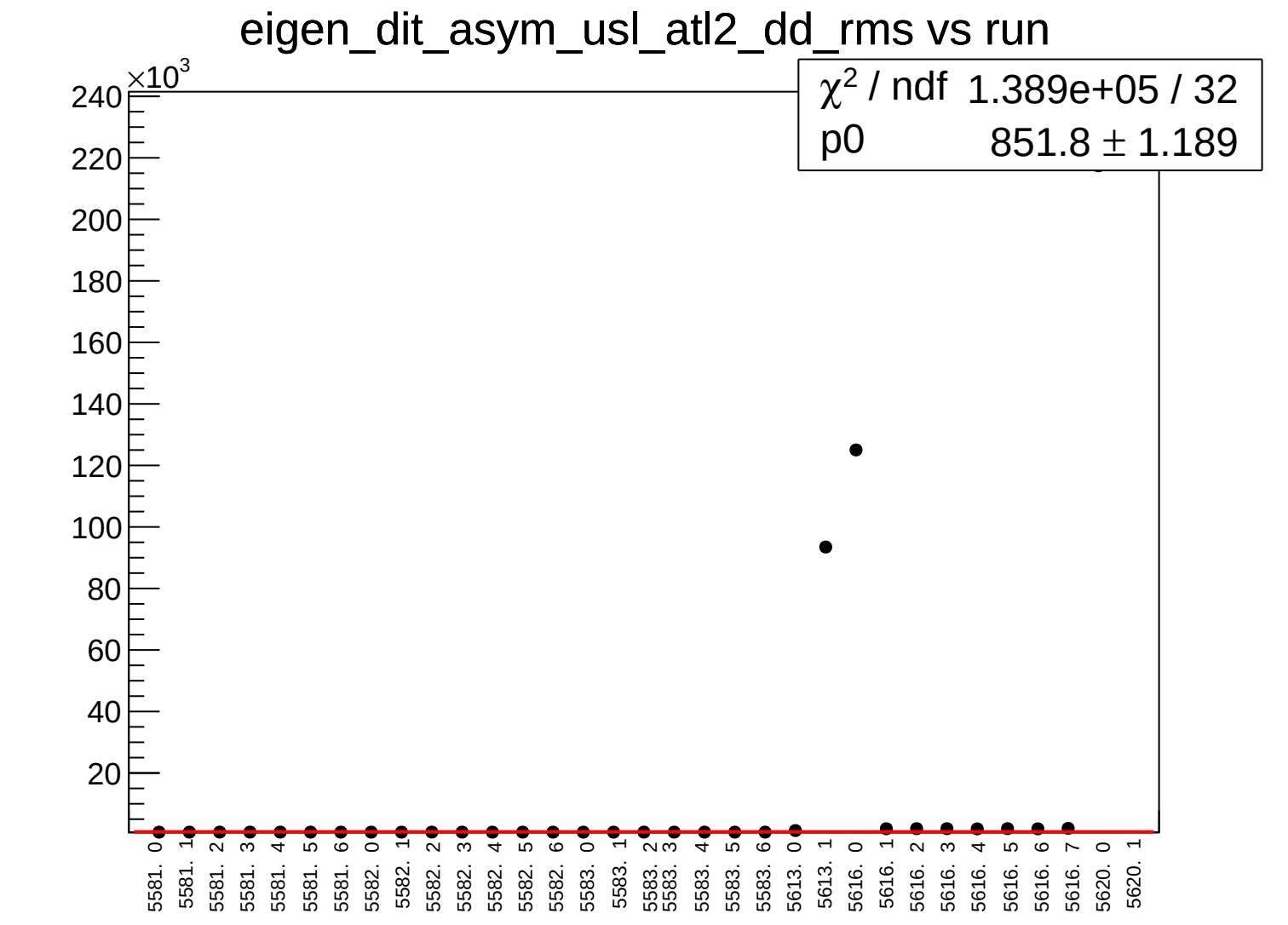

dit_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 1.389e+05 / 32
p0 851.8 ± 1.189
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

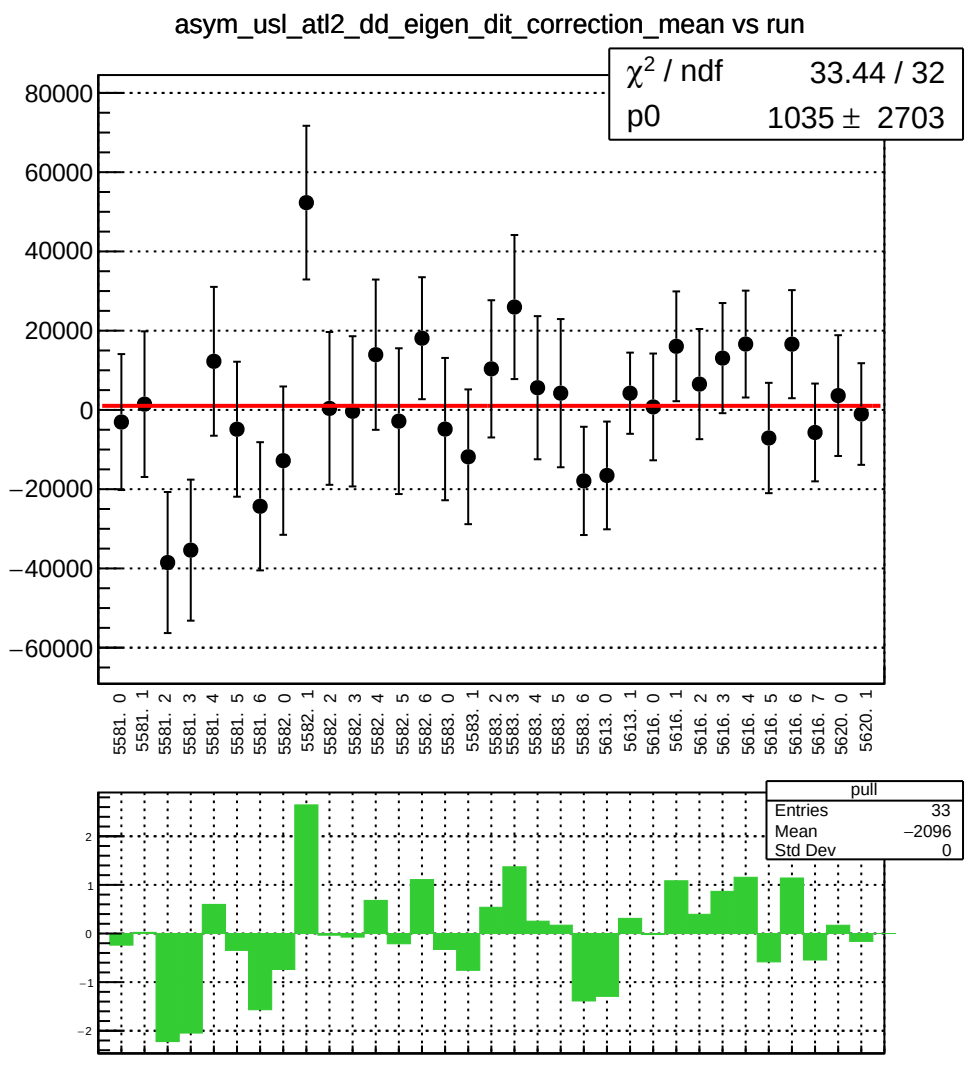

asym_usl_atl2_dd_dit_correction_mean vs run
χ² / ndf 33.44 / 32
p0 1035 ± 2703
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2098
Std Dev 0
2
1
0
−1
−2

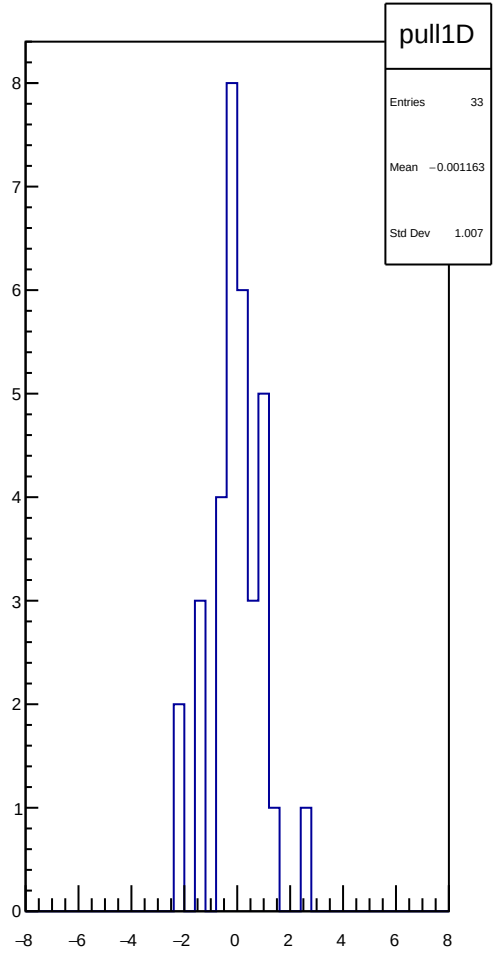

pull1D
Entries 33
Mean −0.001162
Std Dev 1.007
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

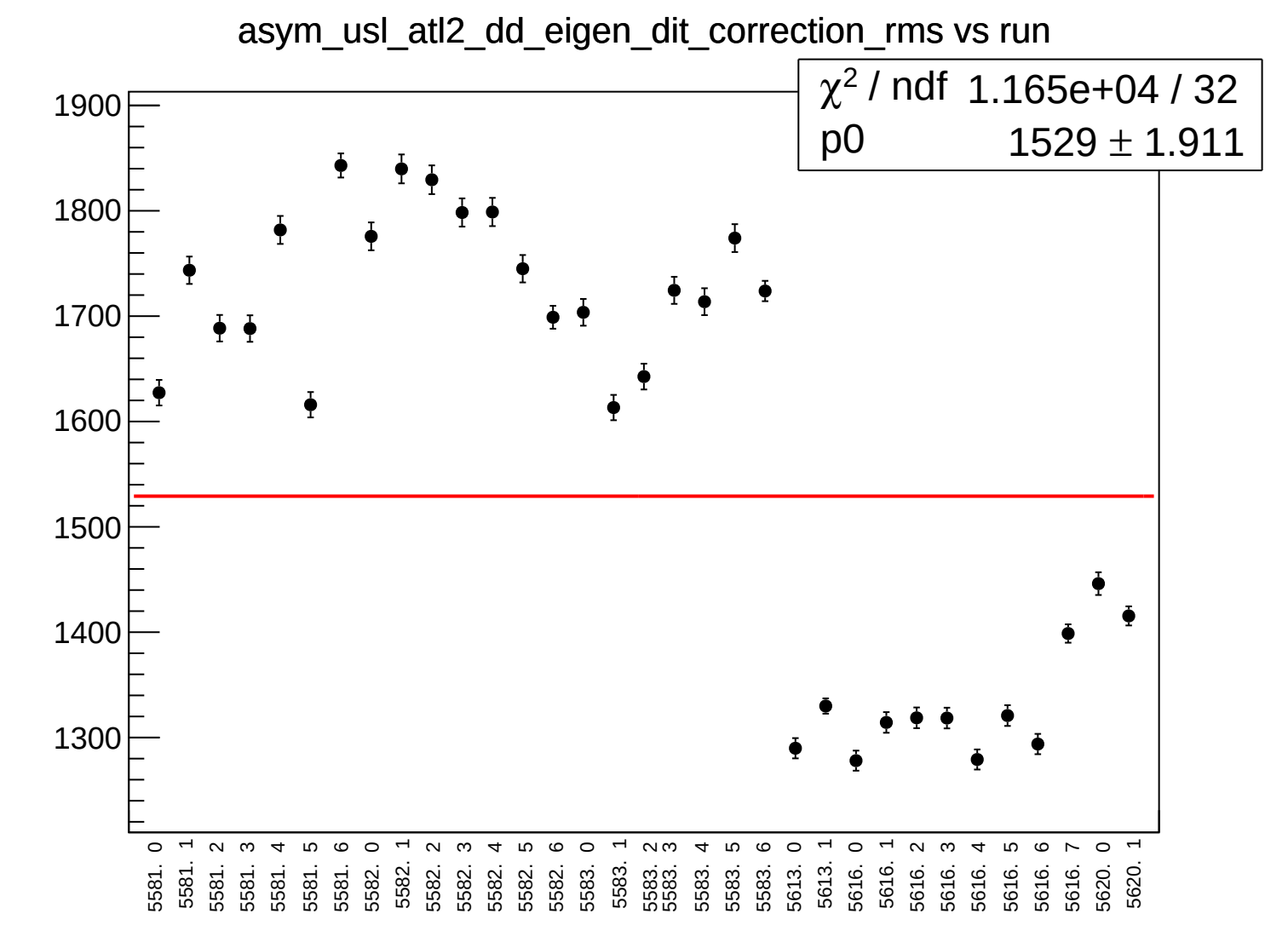

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1.165e+04 / 32
p0 1529 ± 1.911
1900
1800
1700
1600
1500
1400
1300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

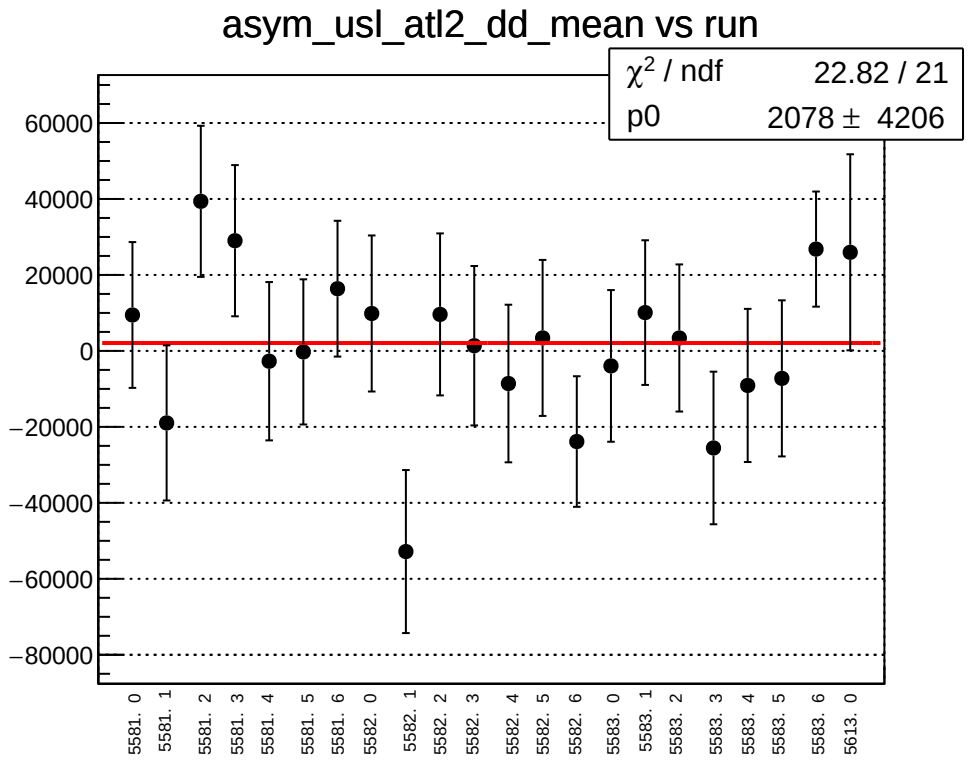

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 18.12 / 21
p0 −79.66 ± 1727
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 214.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 22
Mean 0.00787
Std Dev 0.9074
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

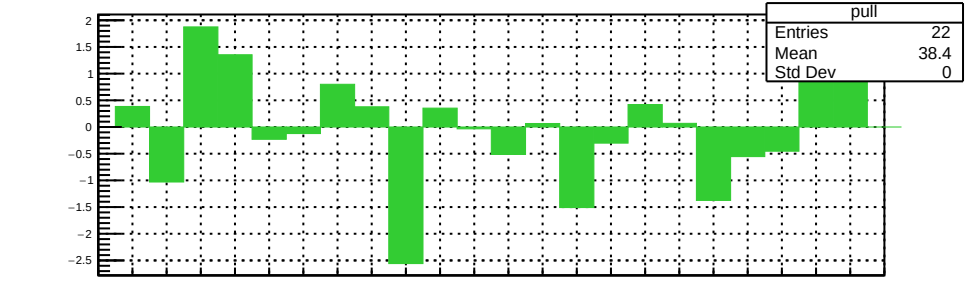

eigen_dit_asym_usl_atl2_dd_rms vs run
×10^3
χ^2 / ndf 1.389e+05 / 32
p0 851.8 ± 1.189
240
220
200
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

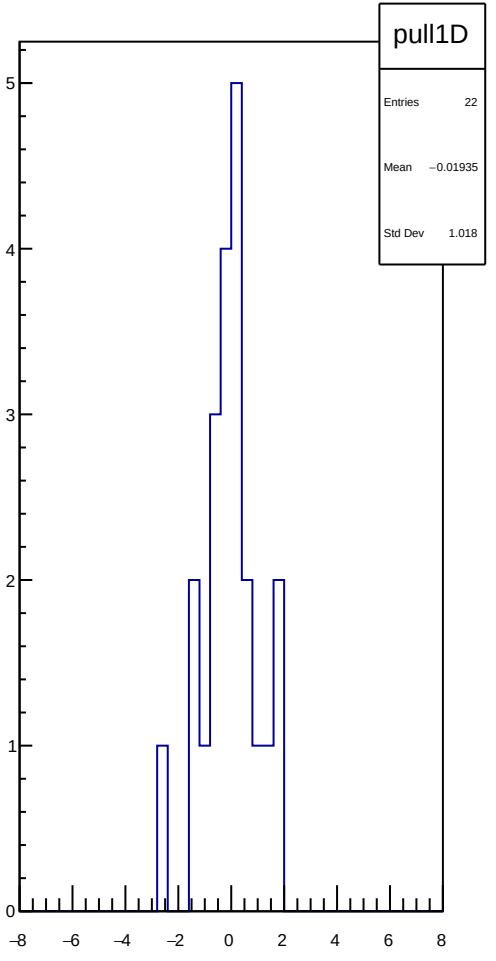

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
χ² / ndf 33.44 / 32
p0 1035 ± 2703
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2096
Std Dev 0
2
1
0
−1
−2

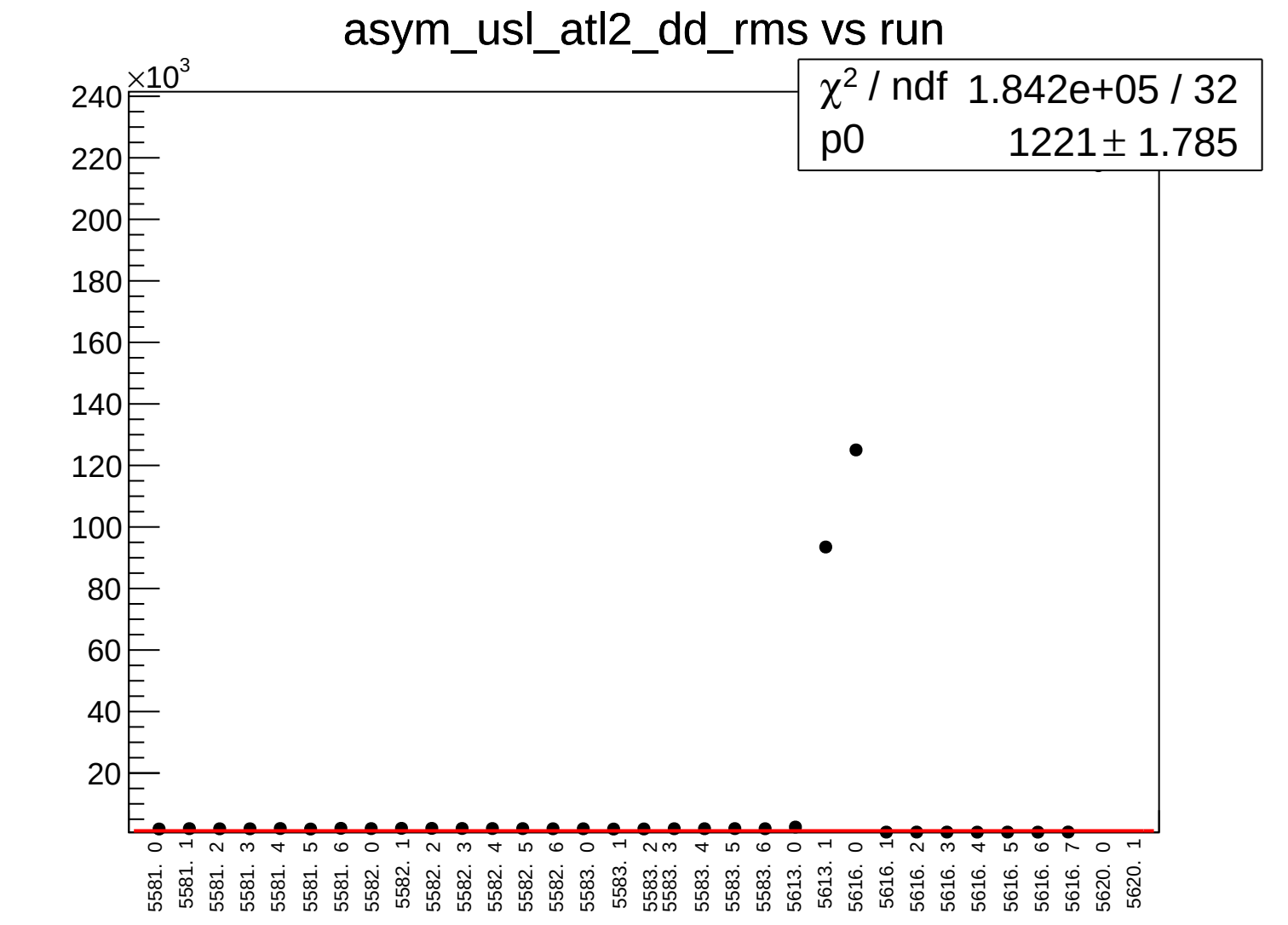

pull1D
Entries 33
Mean −0.001163
Std Dev 1.007
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

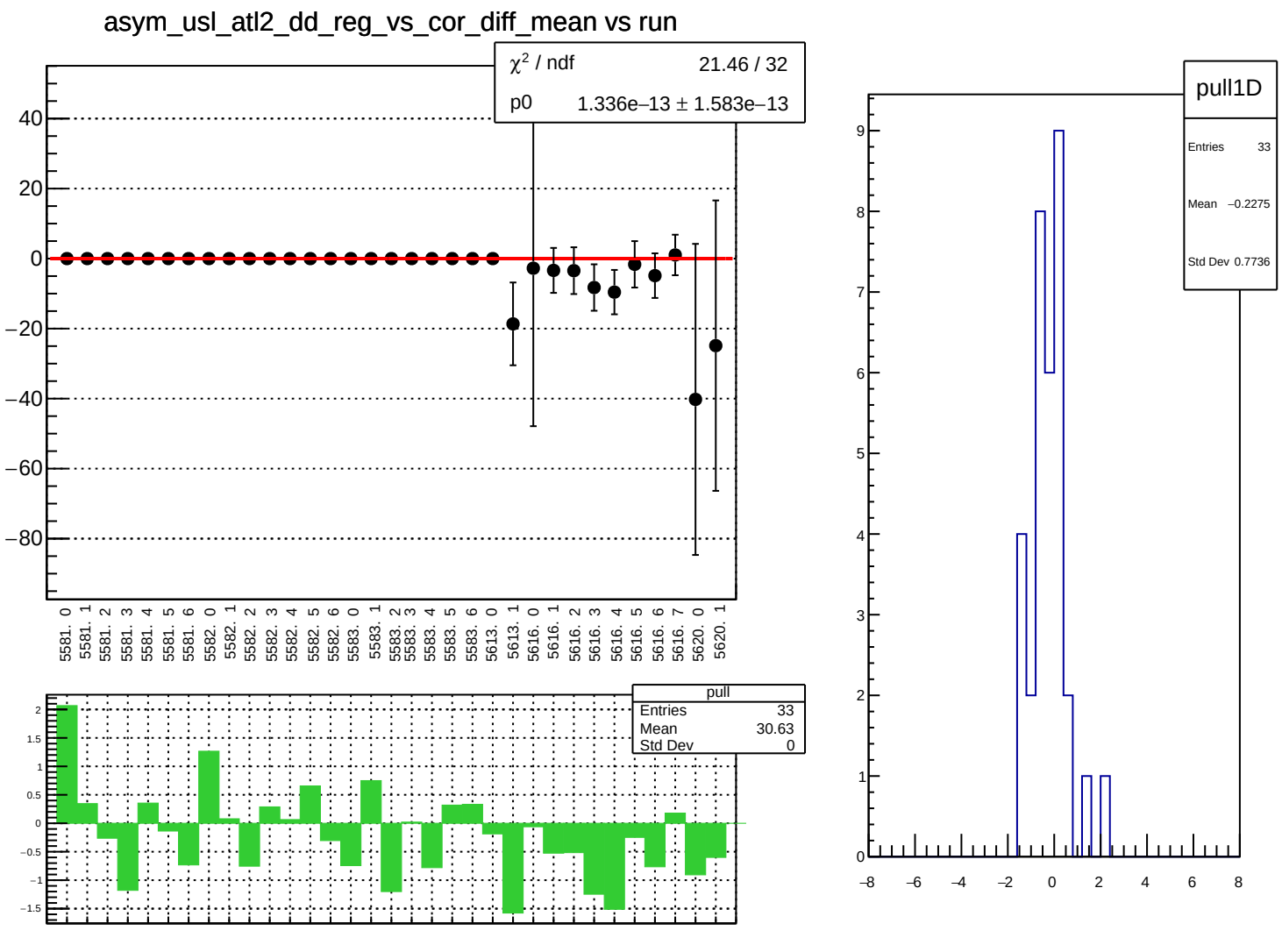

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.165e+04 / 32
p0 1529 ± 1.911
1900
1800
1700
1600
1500
1400
1300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

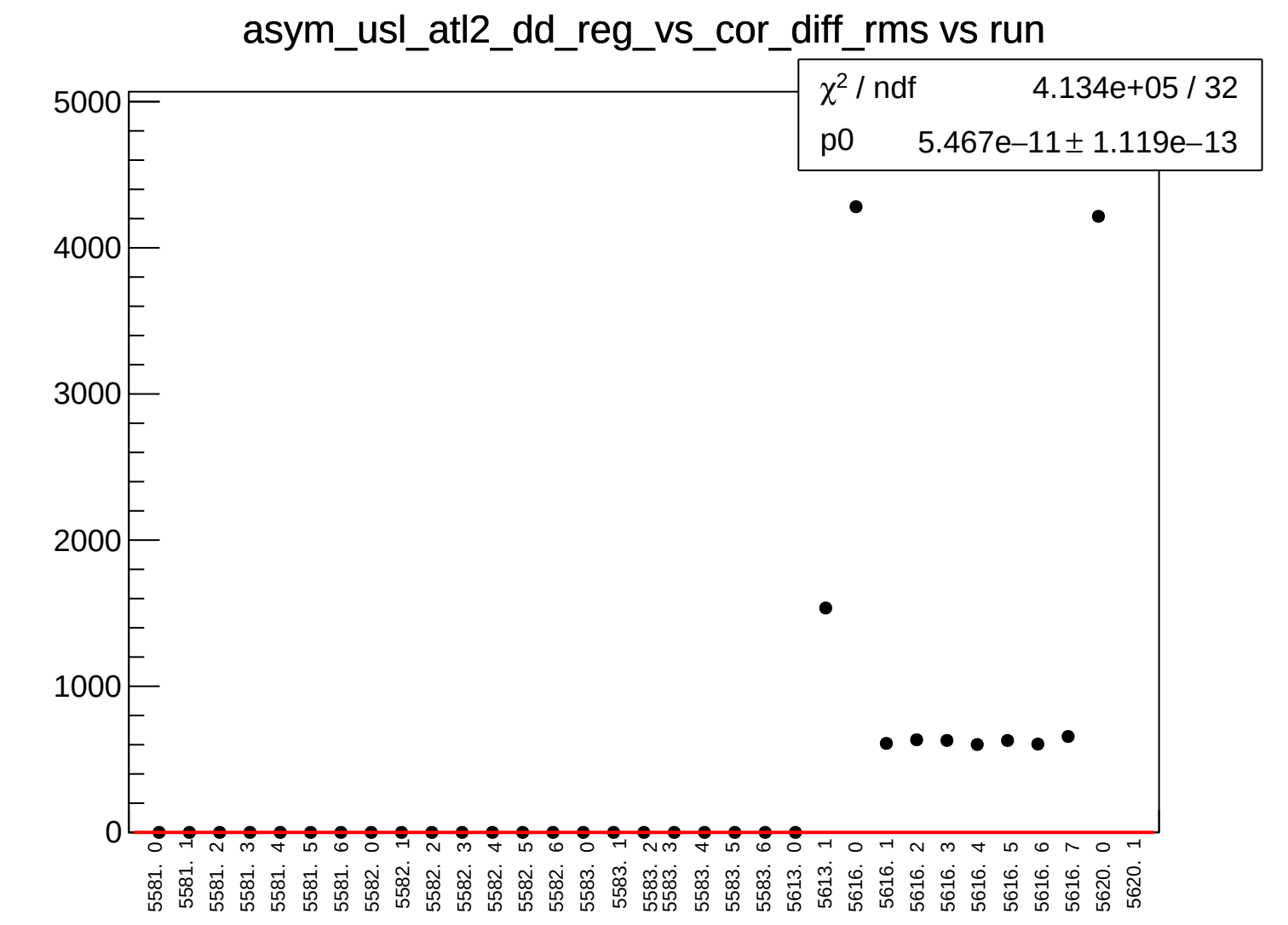

asym_usl_atl2_dd_mean vs run
χ² / ndf 22.82 / 21
p0 2078 ± 4206
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

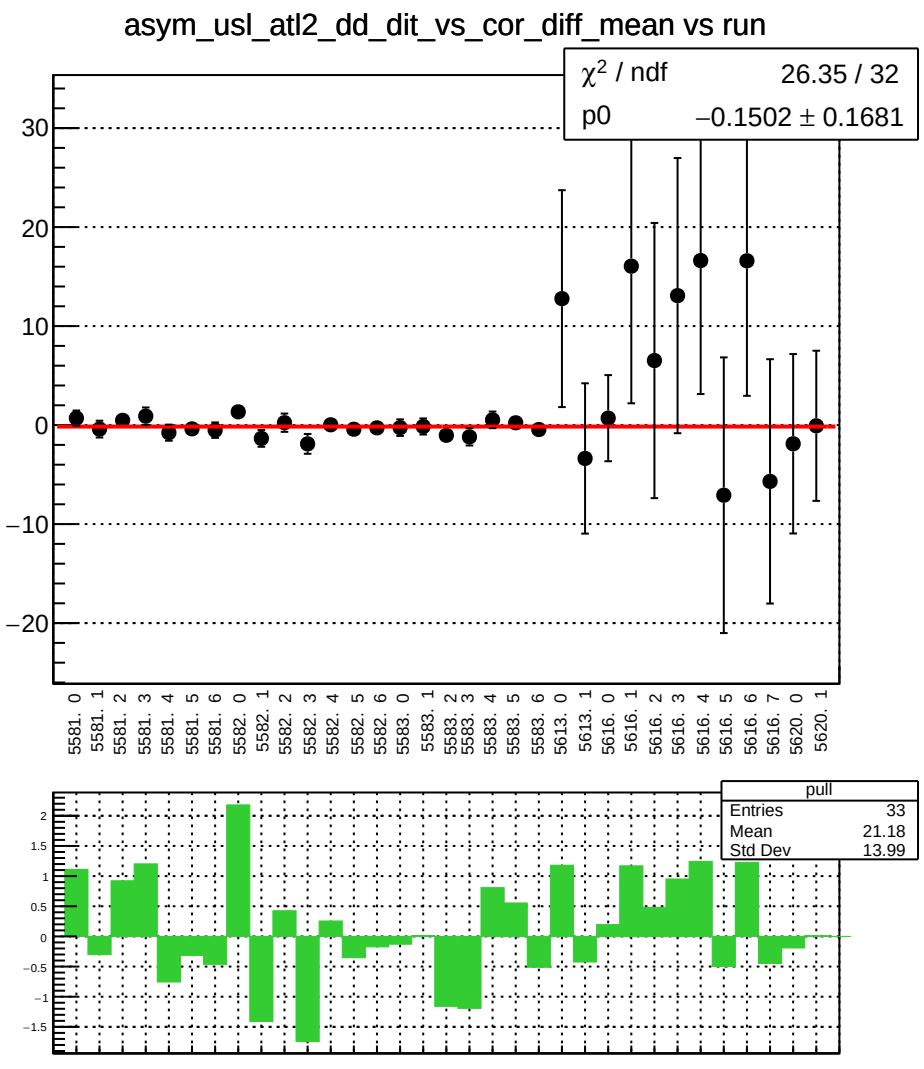

pull
Entries 22
Mean 38.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

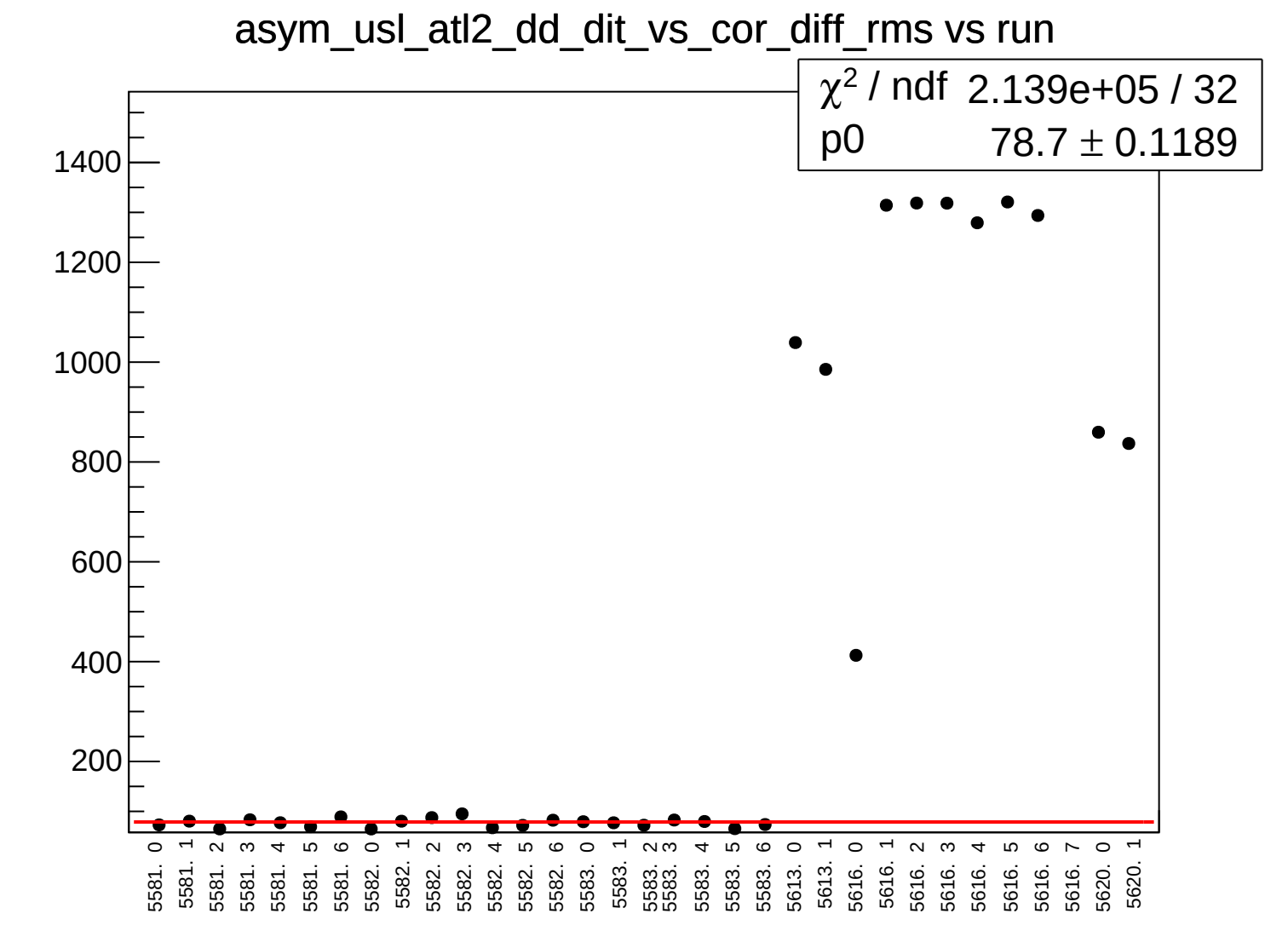

pull1D
Entries 22
Mean −0.01935
Std Dev 1.018
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

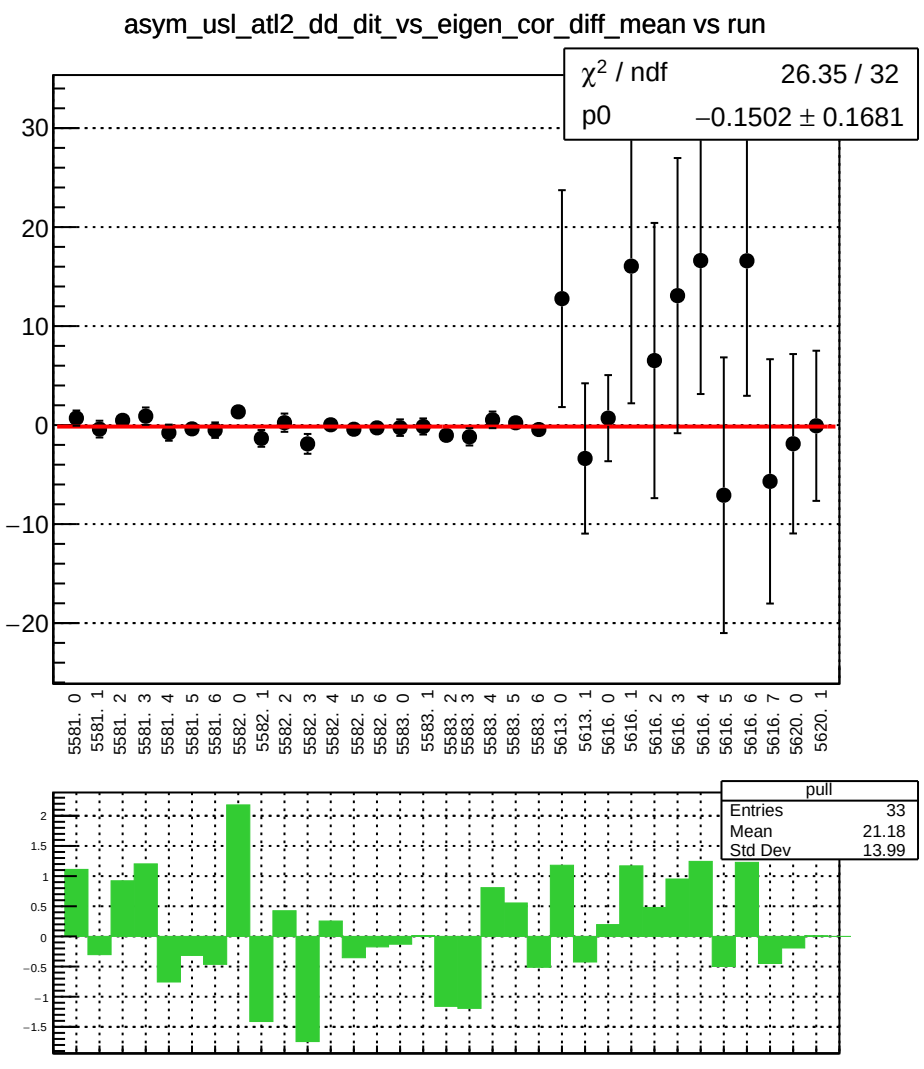

asym_usl_atl2_dd_rms vs run
×10^3
240
220
200
180
160
140
120
100
80
60
40
20
χ² / ndf 1.842e+05 / 32
p0 1221 ± 1.785
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

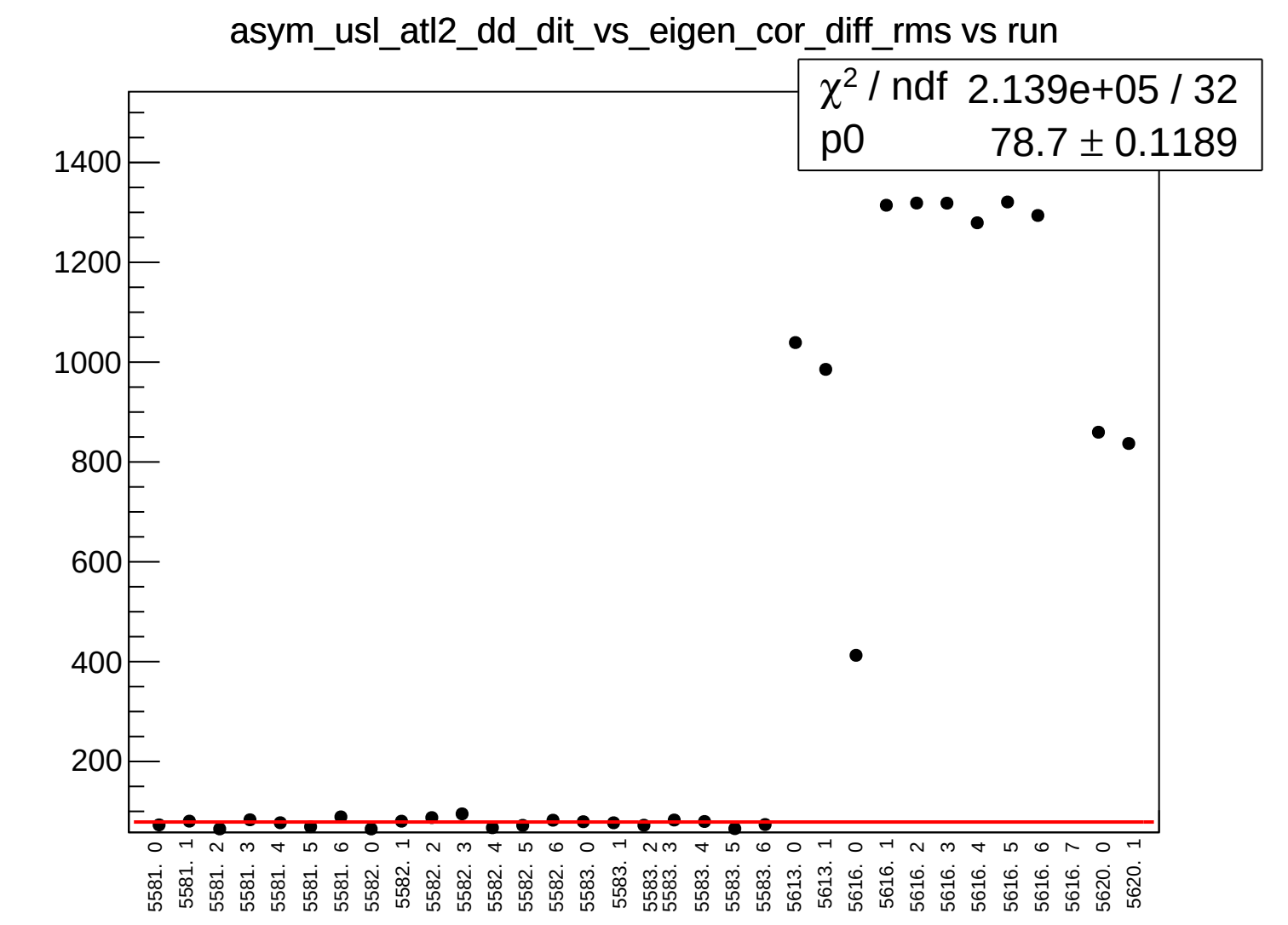

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 21.46 / 32
p0 1.336e−13 ± 1.583e−13
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 30.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.2275
Std Dev 0.7736
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

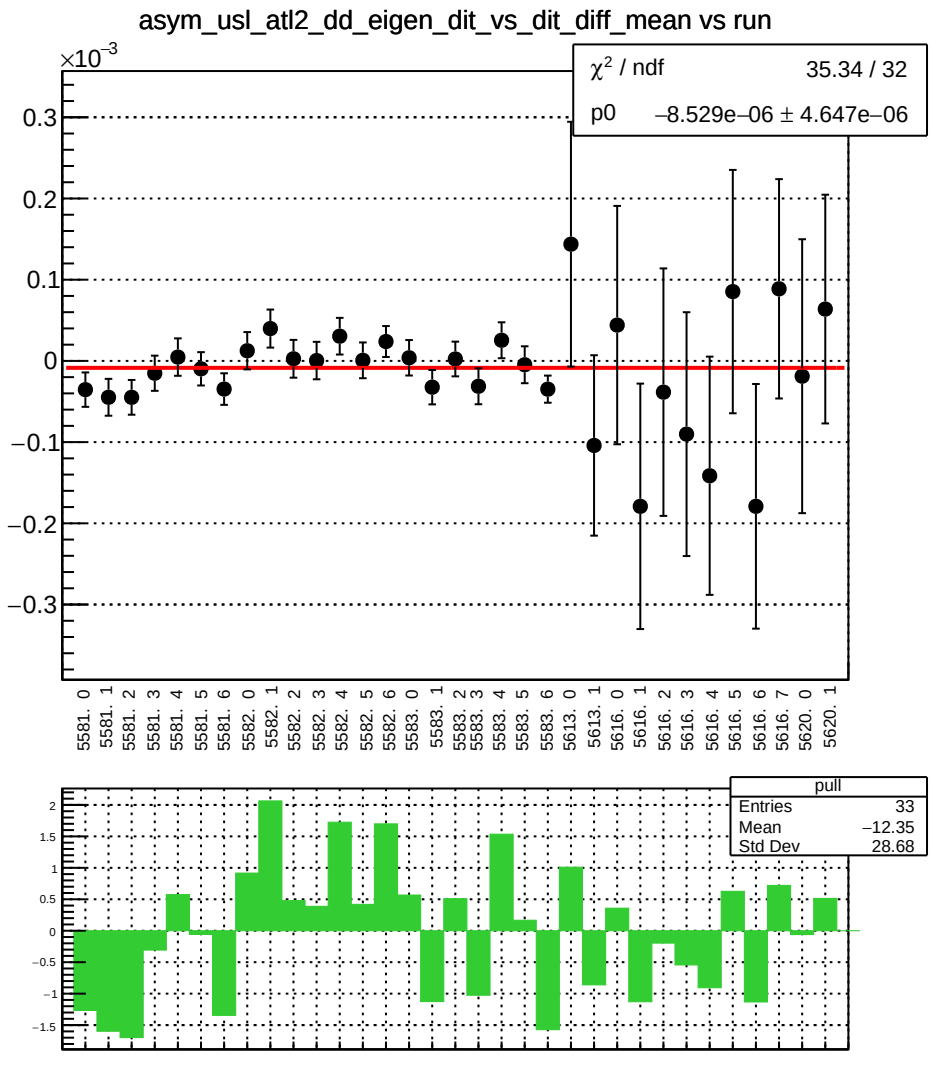

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.134e+05 / 32
p0 5.467e−11 ± 1.119e−13
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

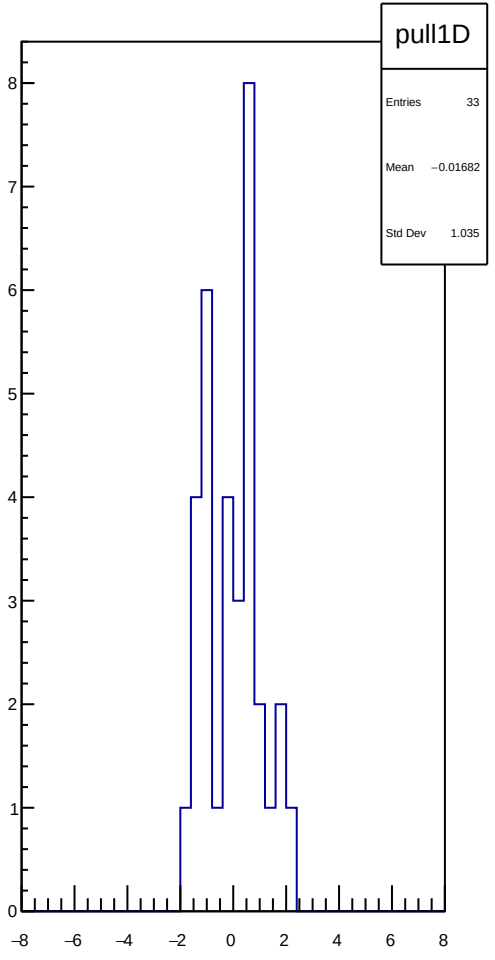

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 26.35 / 32
p0 −0.1502 ± 0.1681
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.18
Std Dev 13.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1169
Std Dev 0.886
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

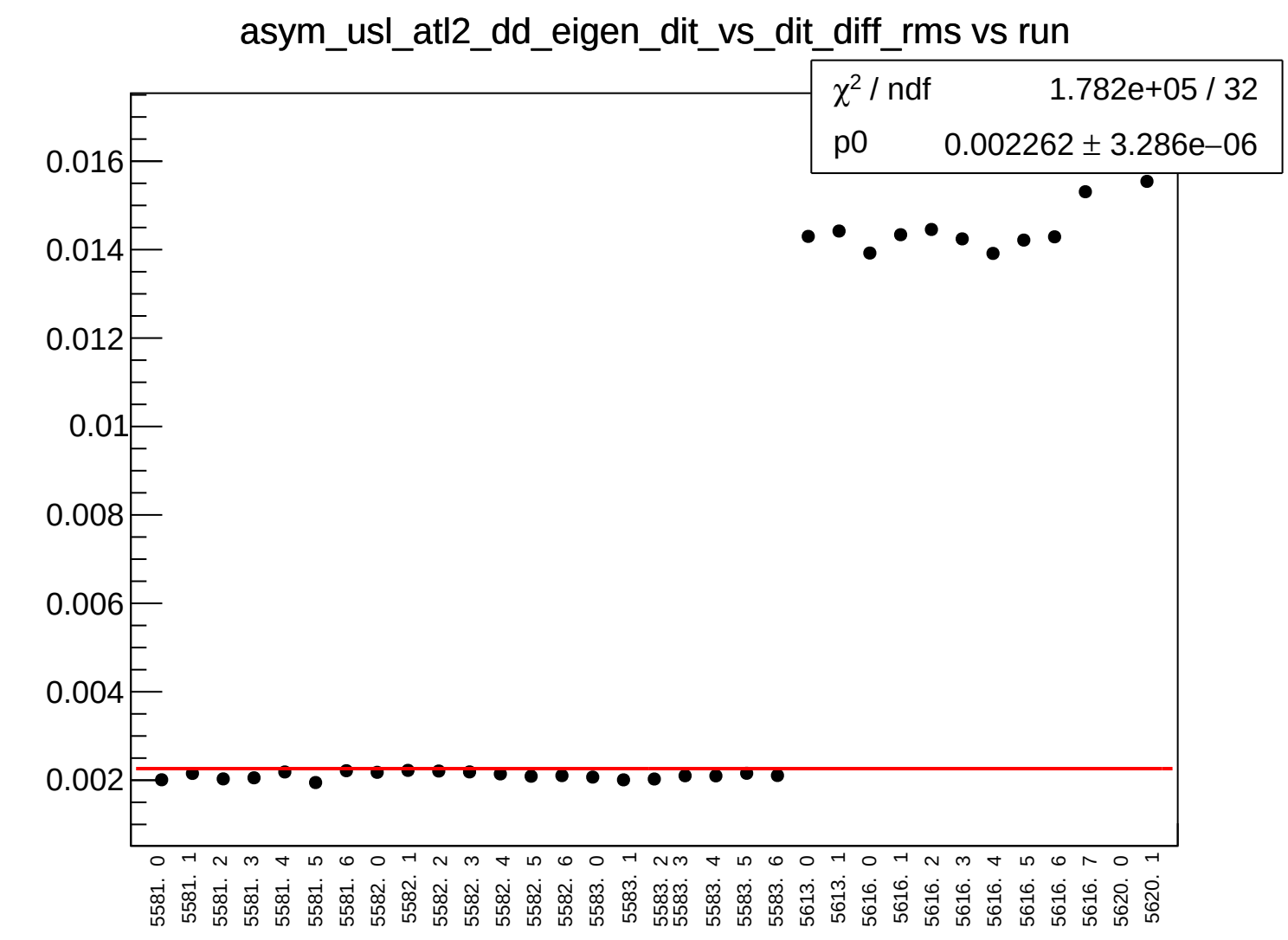

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.139e+05 / 32
p0 78.7 ± 0.1189
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

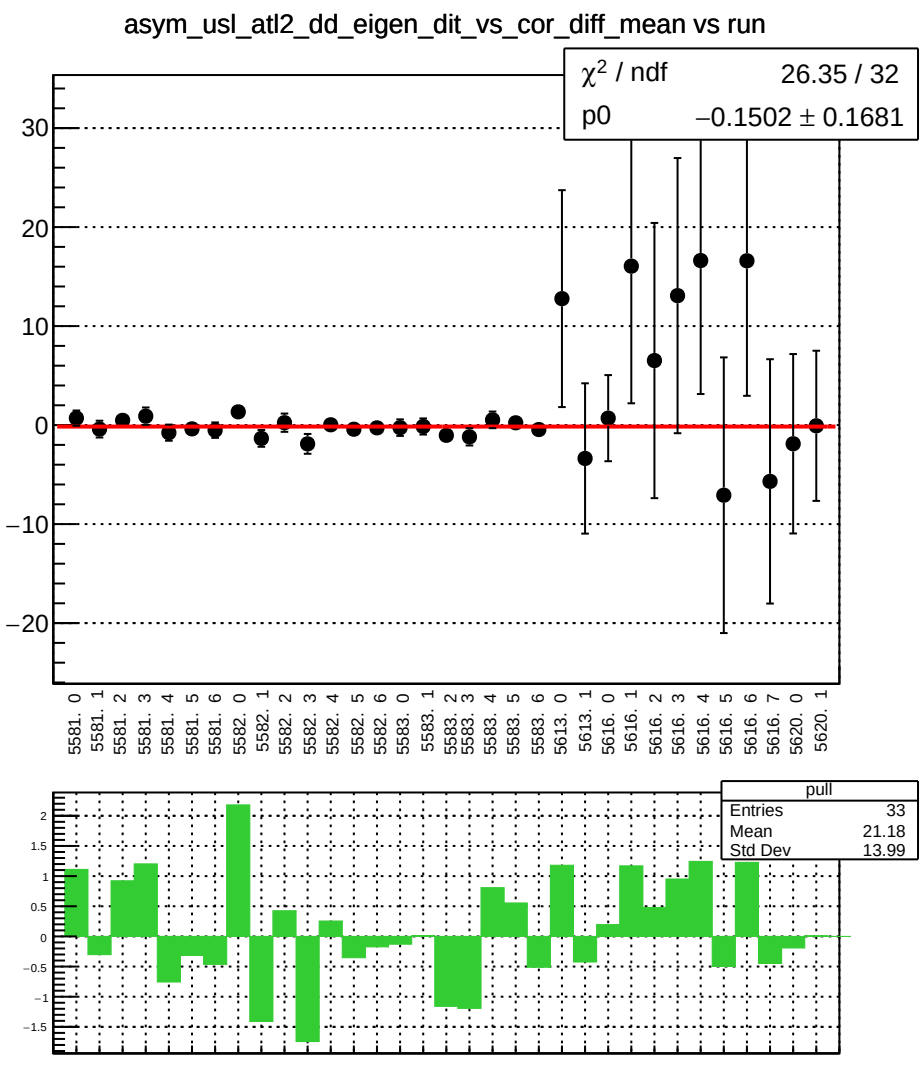

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.35 / 32
p0 −0.1502 ± 0.1681
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.18
Std Dev 13.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1169
Std Dev 0.886
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

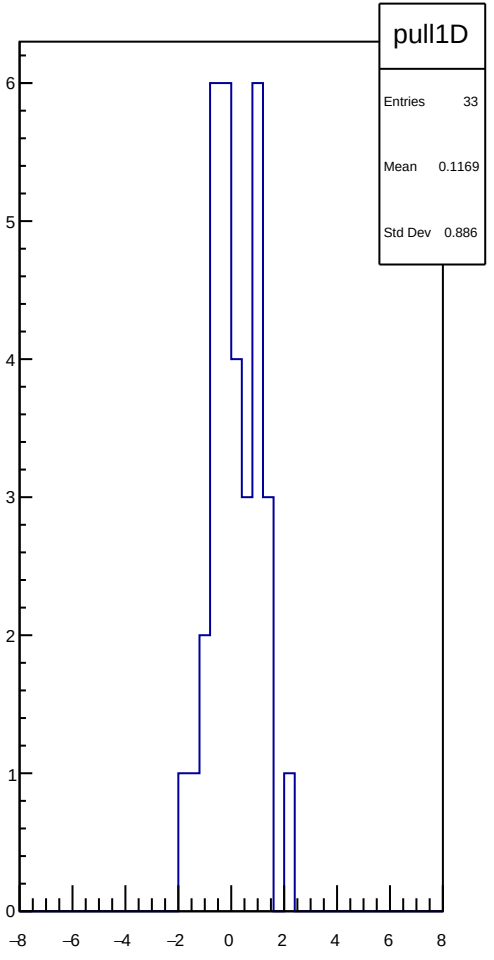

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.139e+05 / 32
p0 78.7 ± 0.1189
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

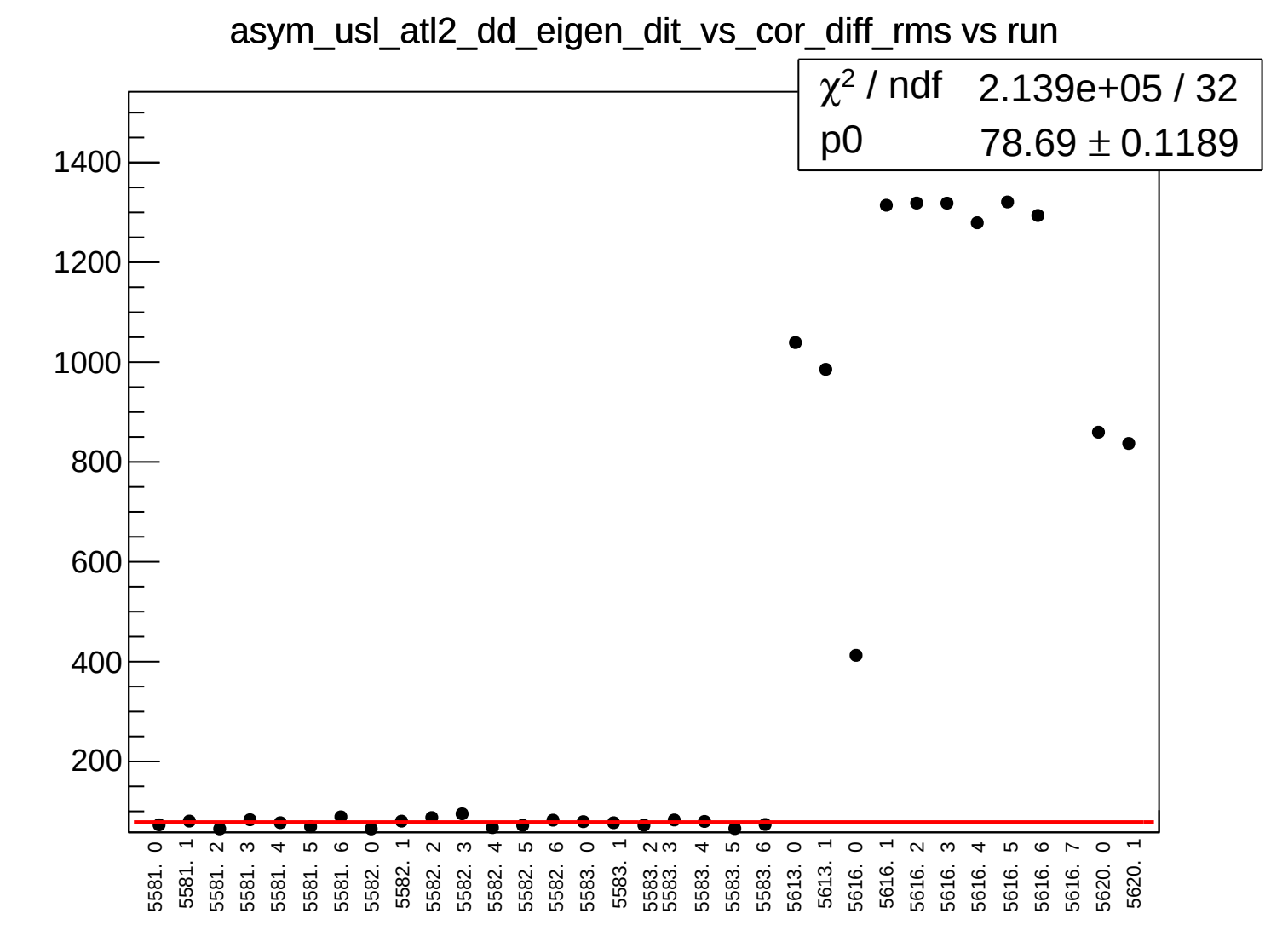

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.34 / 32
p0 −8.529e−06 ± 4.647e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −12.35
Std Dev 28.68
2
1.5
1
0.5
0
−0.5
−1
−1.5

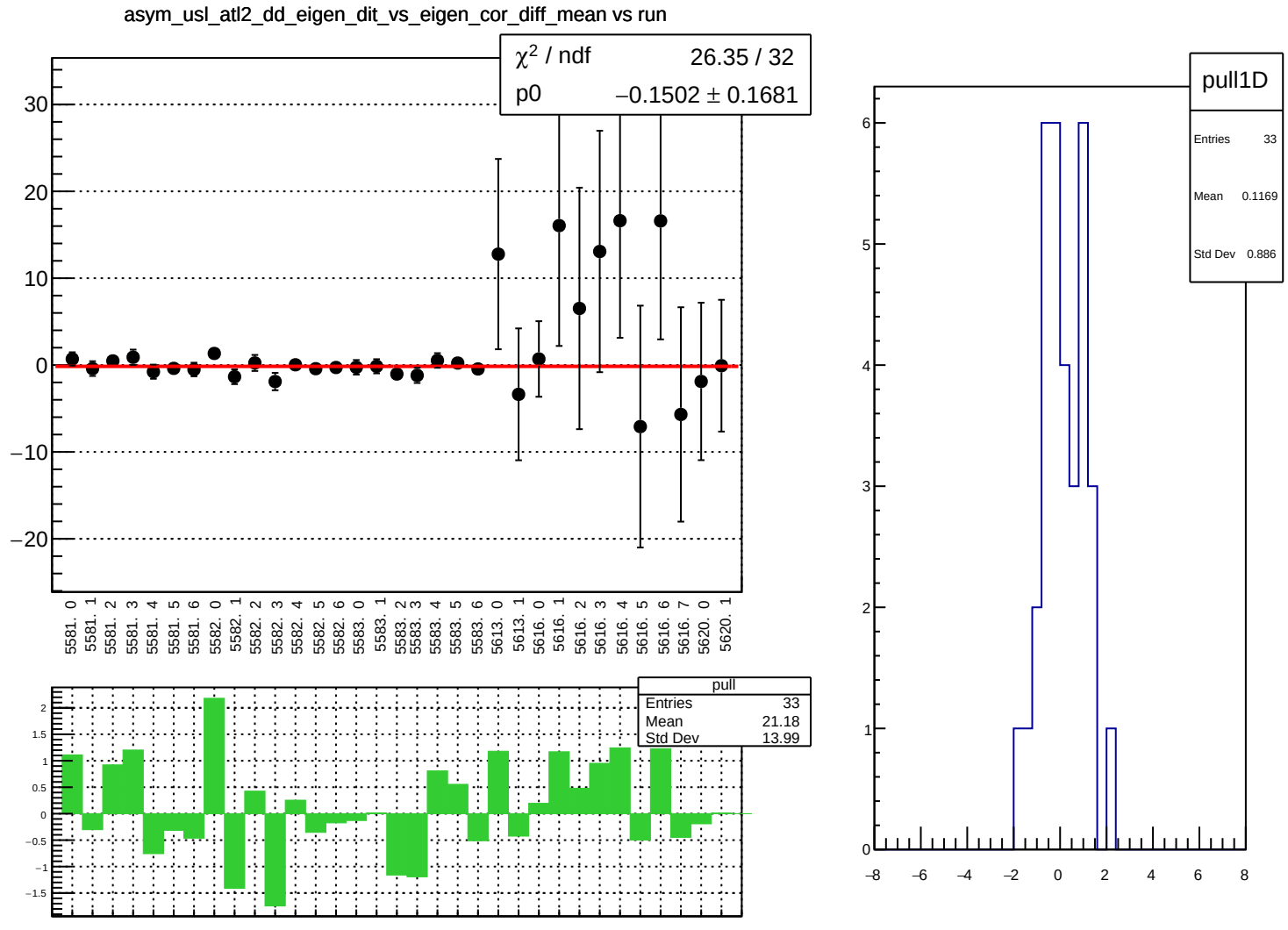

pull1D
Entries 33
Mean −0.01682
Std Dev 1.035
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

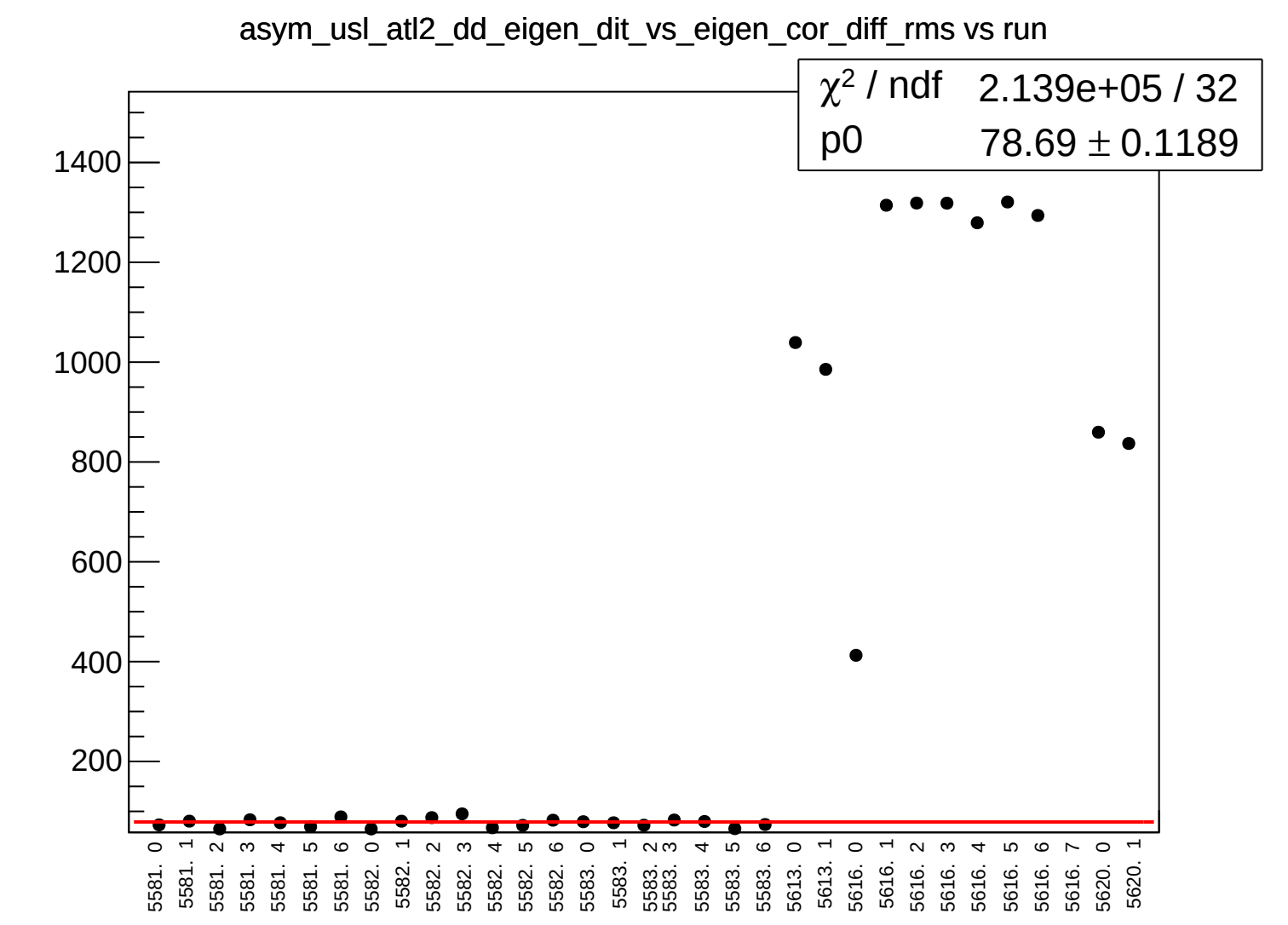

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.782e+05 / 32
p0 0.002262 ± 3.286e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

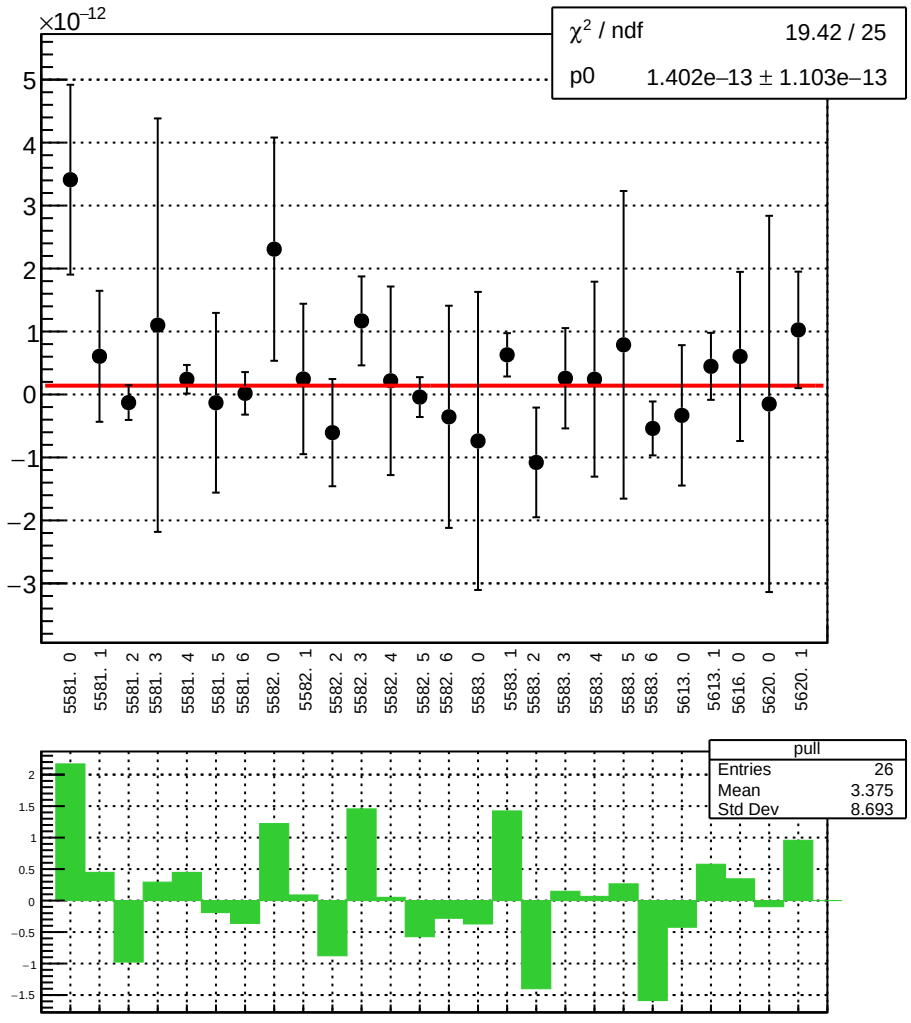

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 26.35 / 32
p0 −0.1502 ± 0.1681
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.18
Std Dev 13.99
2
1.5
1
0.5
0
−0.5
−1
−1.5

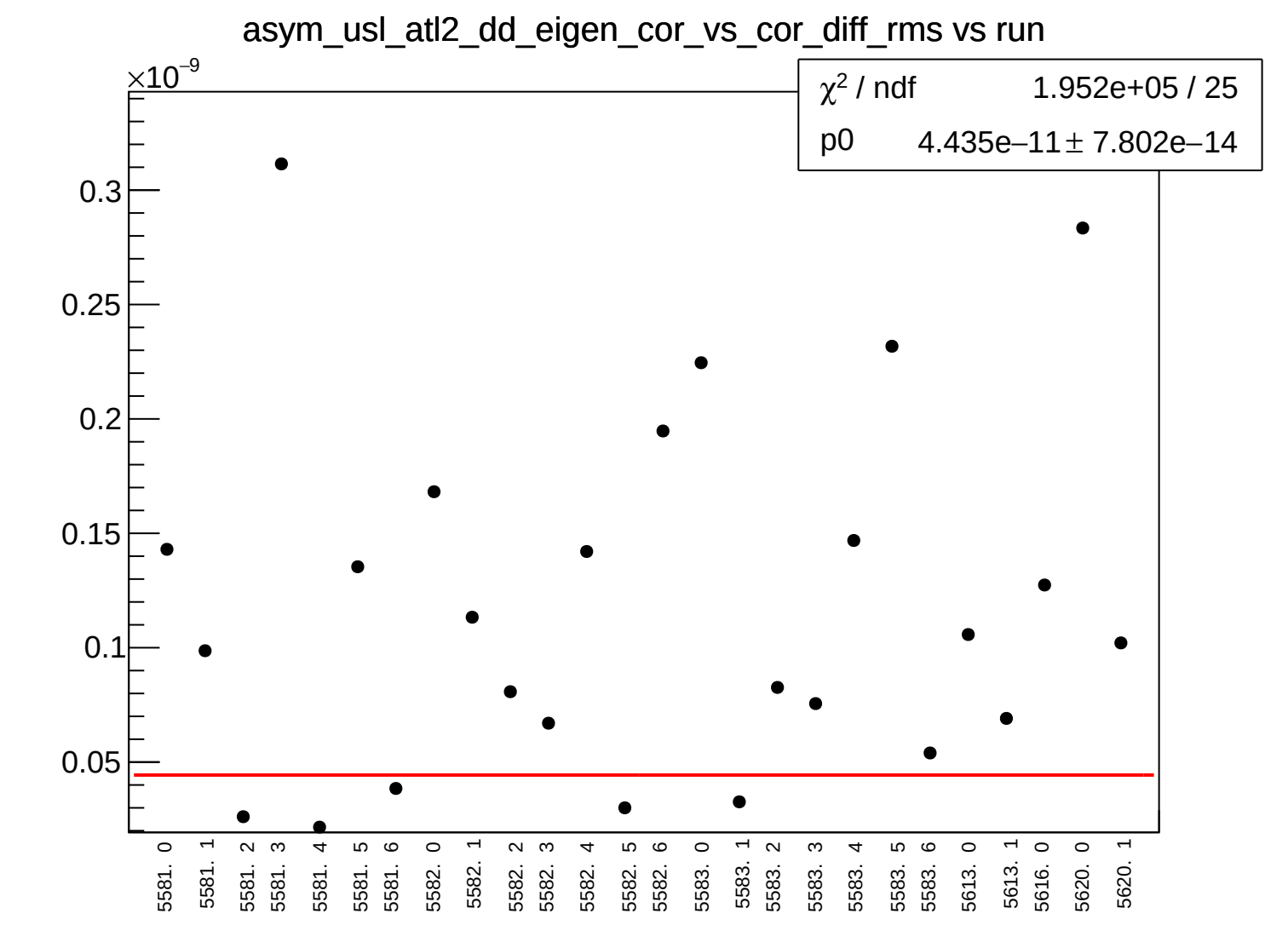

pull1D
Entries 33
Mean 0.1169
Std Dev 0.886
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

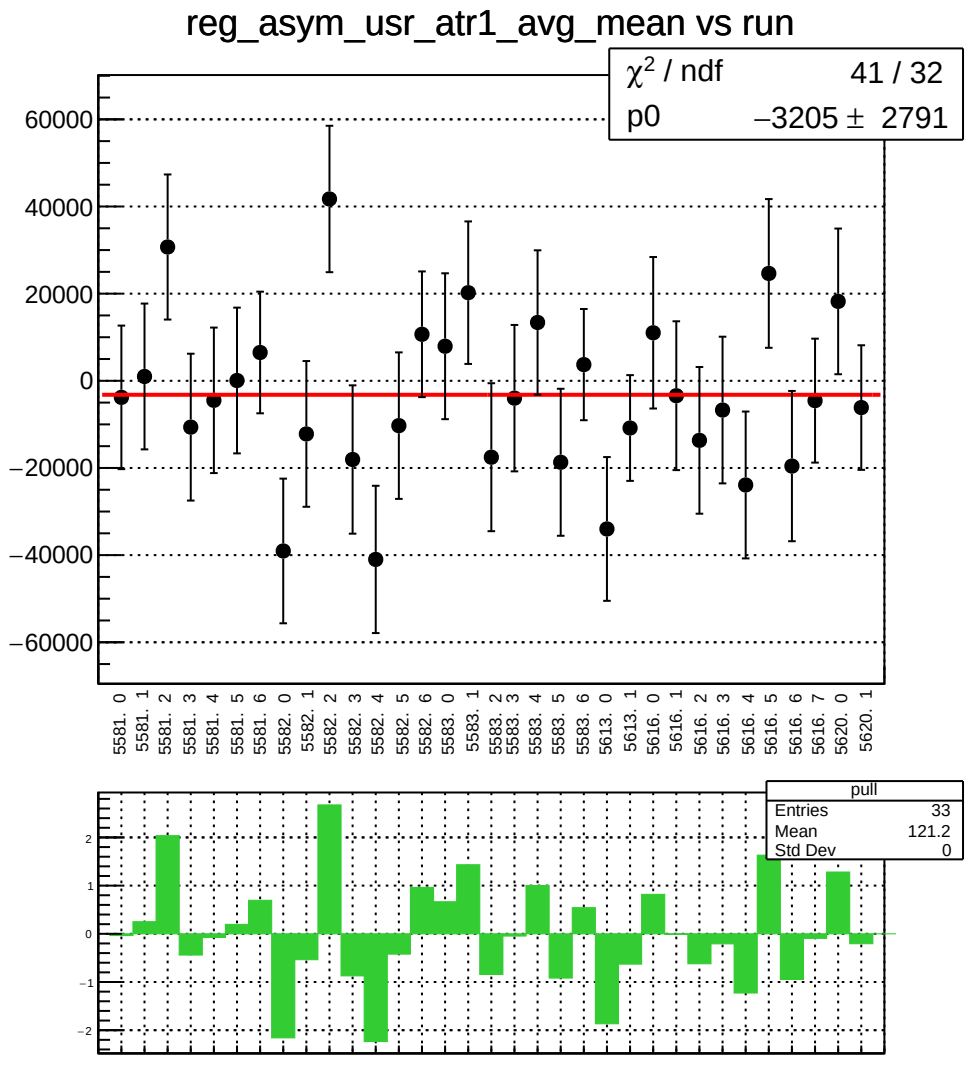

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.139e+05 / 32
p0 78.69 ± 0.1189
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

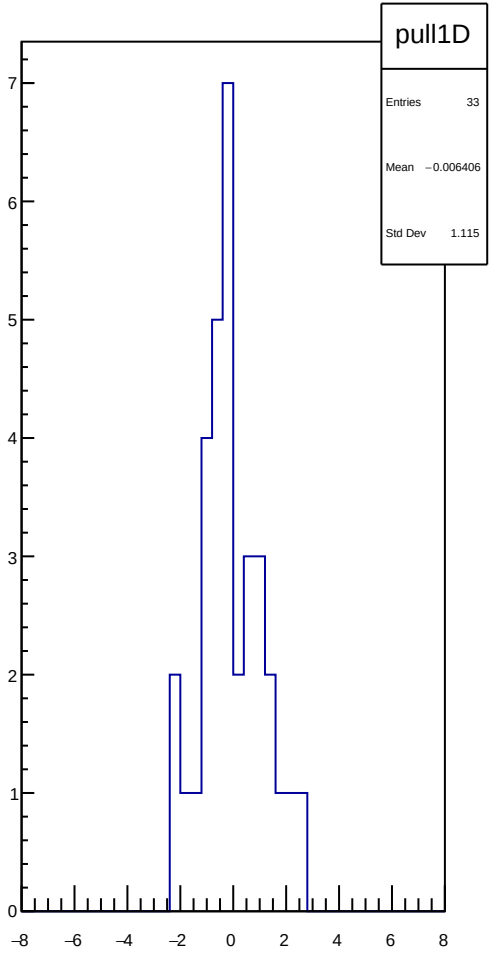

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.35 / 32
p0 −0.1502 ± 0.1681
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.18
Std Dev 13.99
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1169
Std Dev 0.886
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

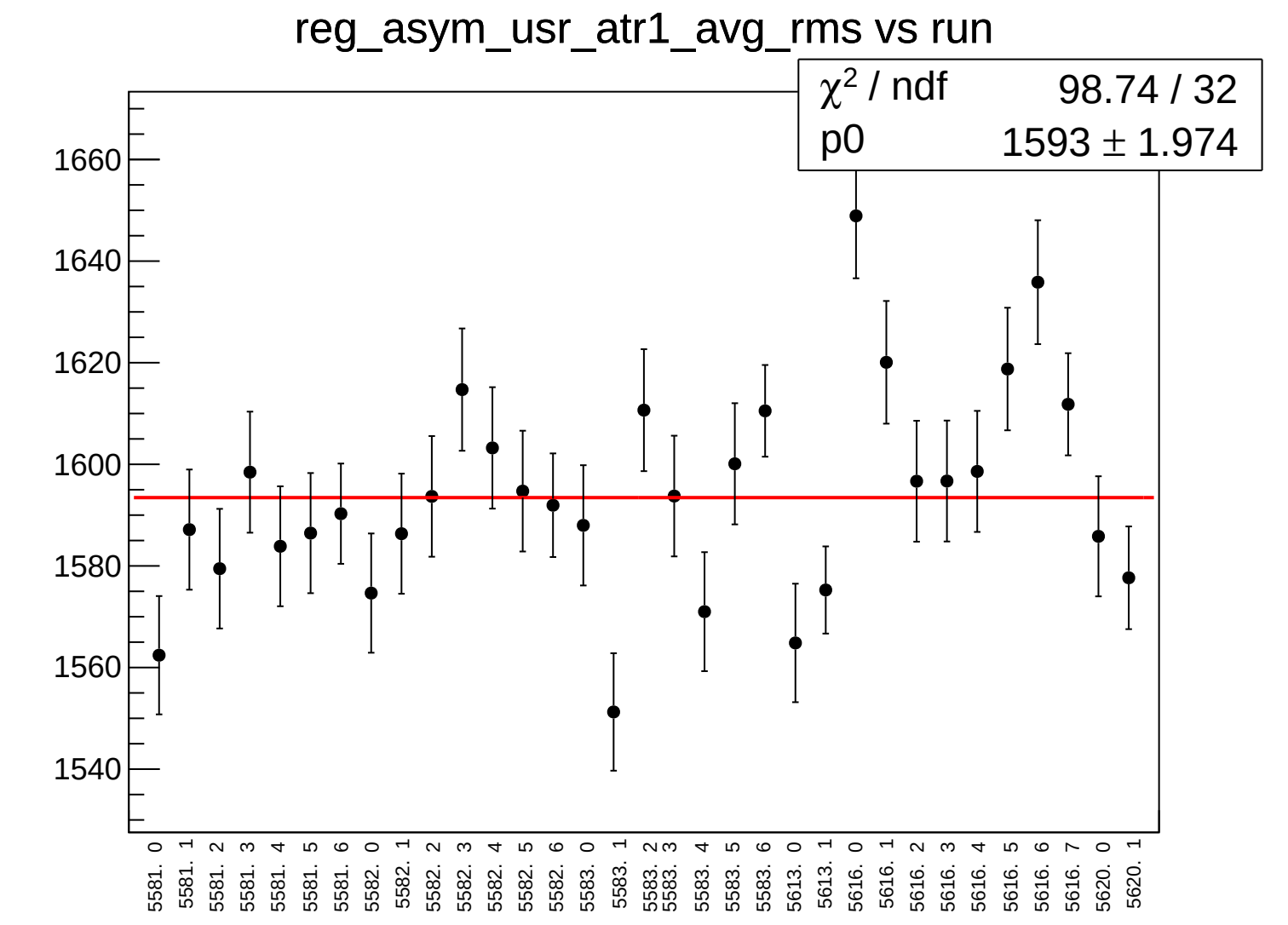

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.139e+05 / 32
p0 78.69 ± 0.1189
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

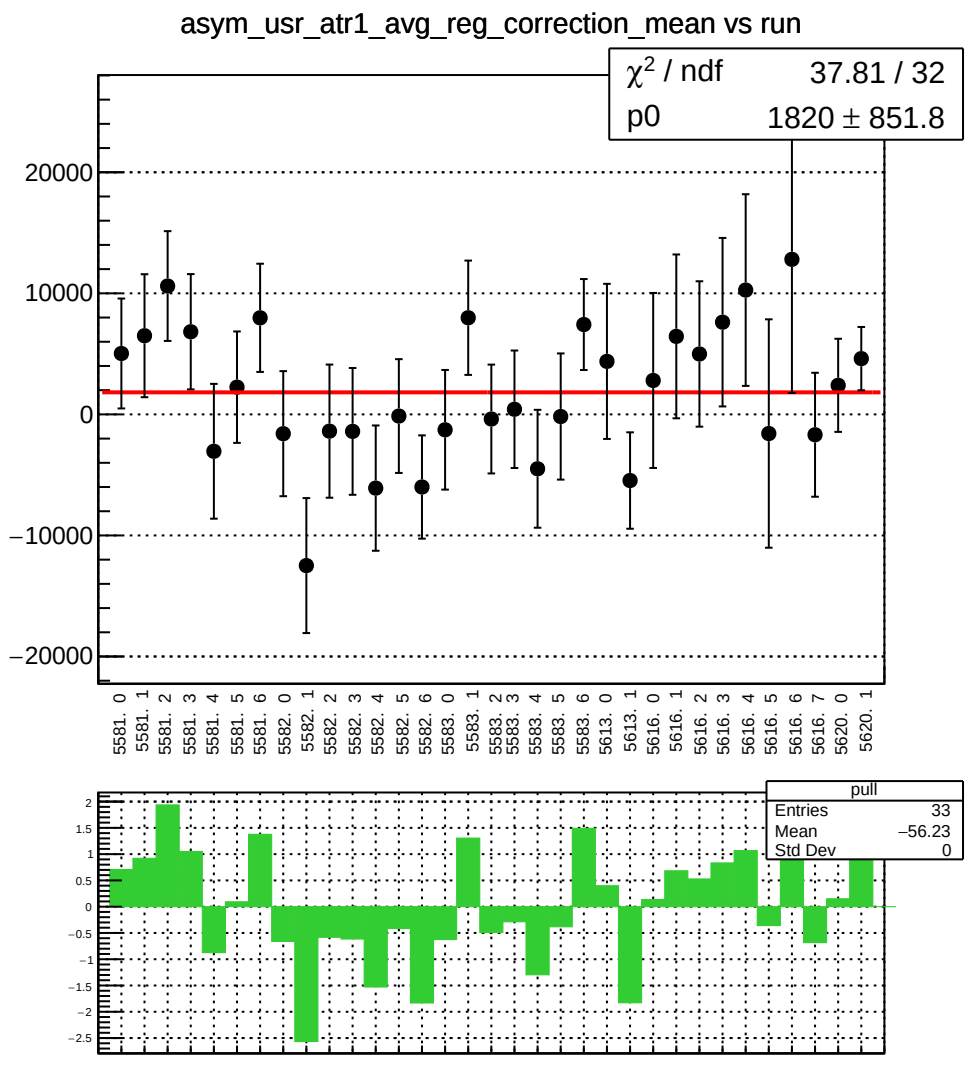

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.42 / 25
p0 1.402e−13 ± 1.103e−13
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 3.375
Std Dev 8.693
pull1D
Entries 26
Mean 0.1085
Std Dev 0.8573

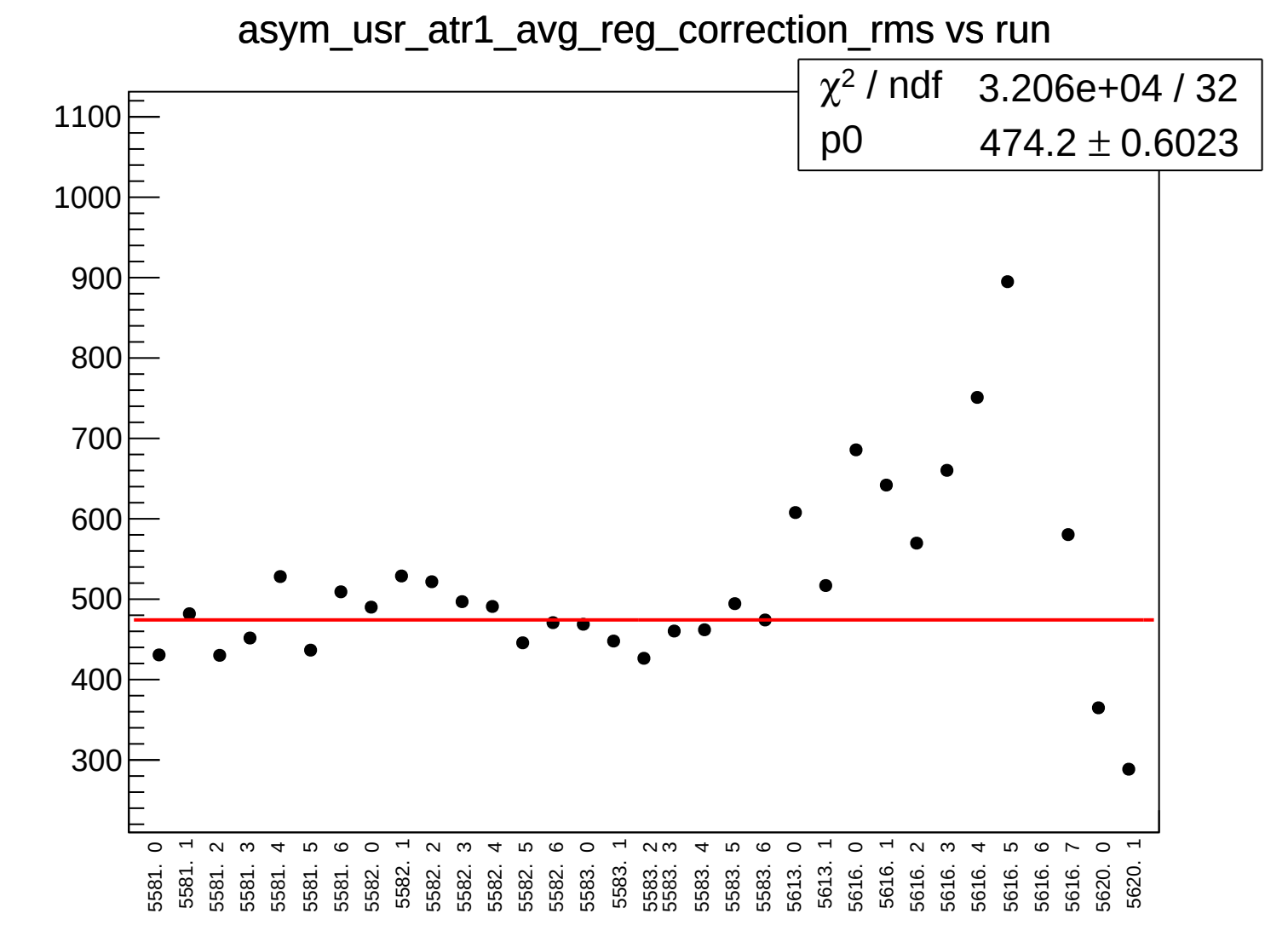

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.952e+05 / 25
p0 4.435e−11 ± 7.802e−14
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

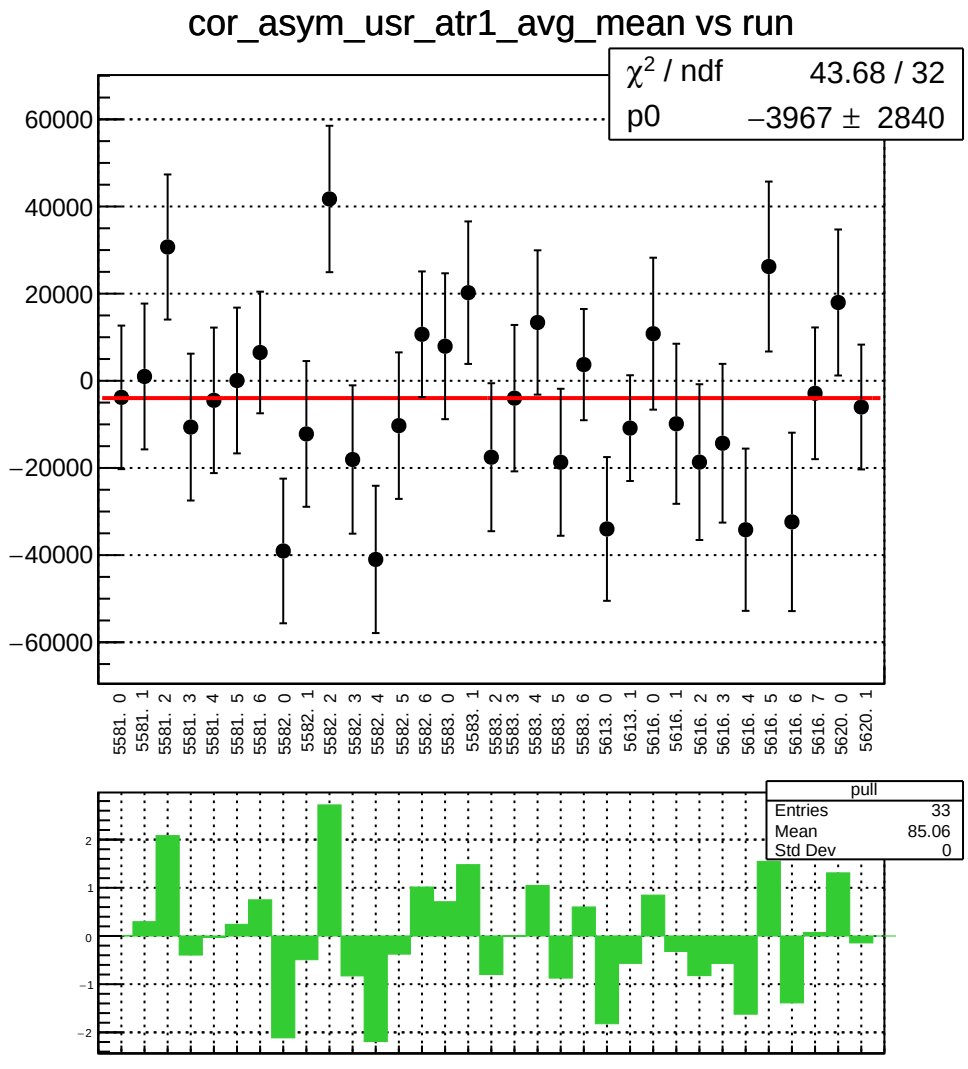

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 41 / 32
p0 −3205 ± 2791
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 121.2
Std Dev 0
2
1
0
−1
−2

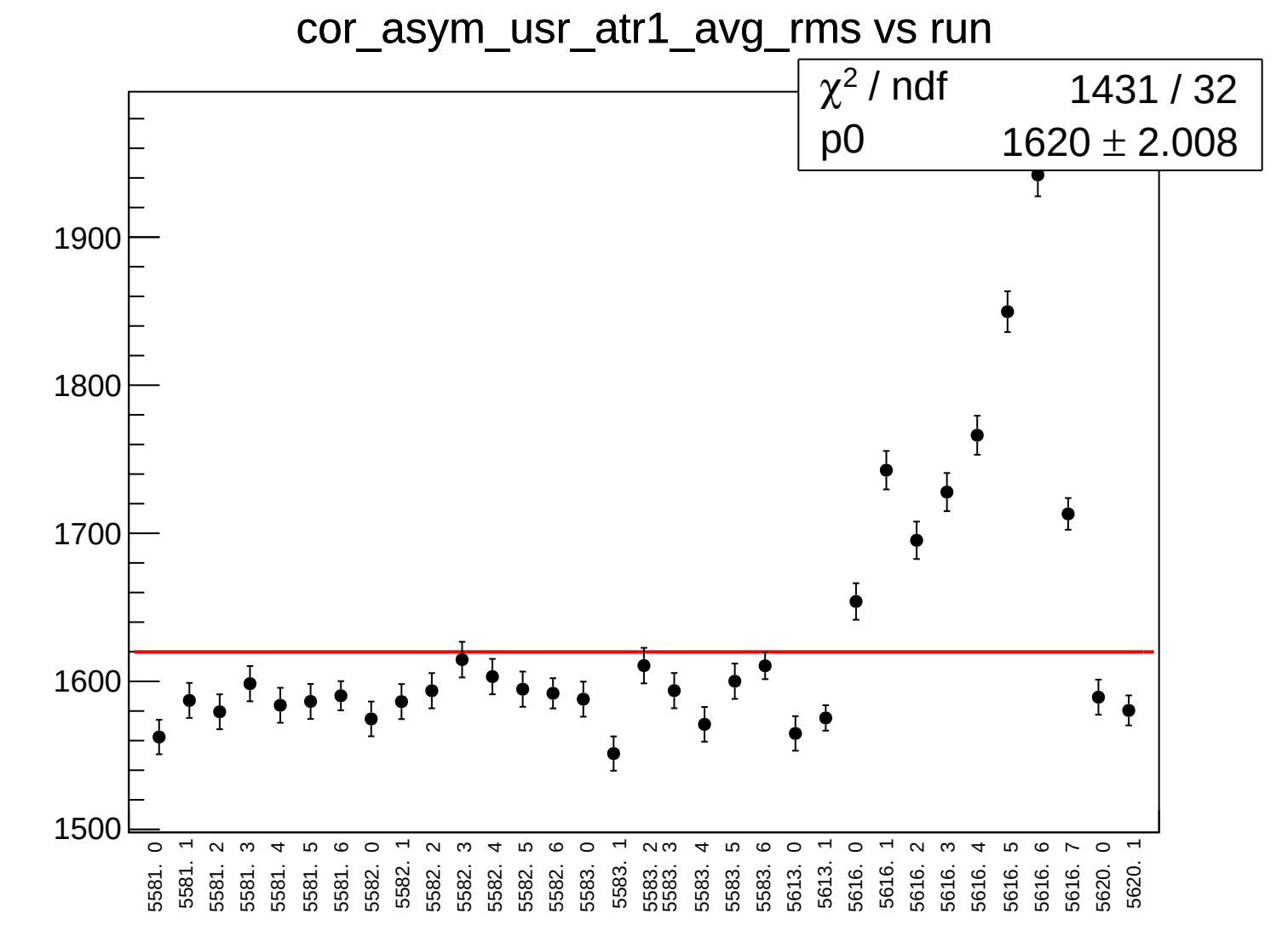

pull1D
Entries 33
Mean −0.006406
Std Dev 1.115
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

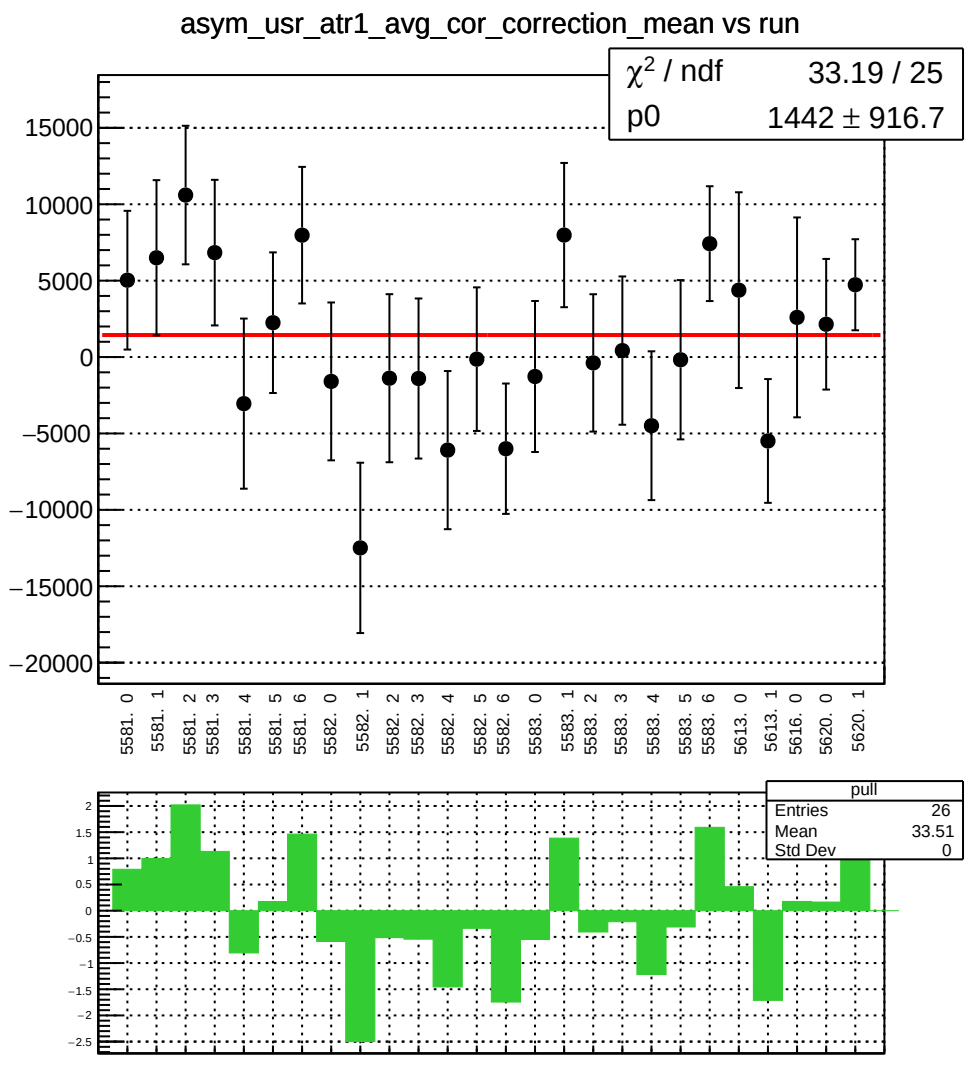

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 98.74 / 32
p0 1593 ± 1.974
1660
1640
1620
1600
1580
1560
1540
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

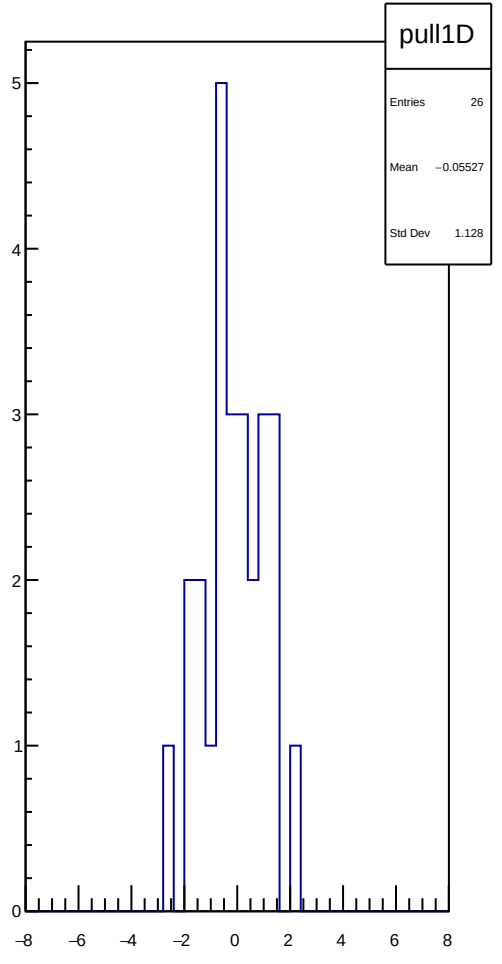

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 37.81 / 32
p0 1820 ± 851.8
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −56.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.008894
Std Dev 1.07
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

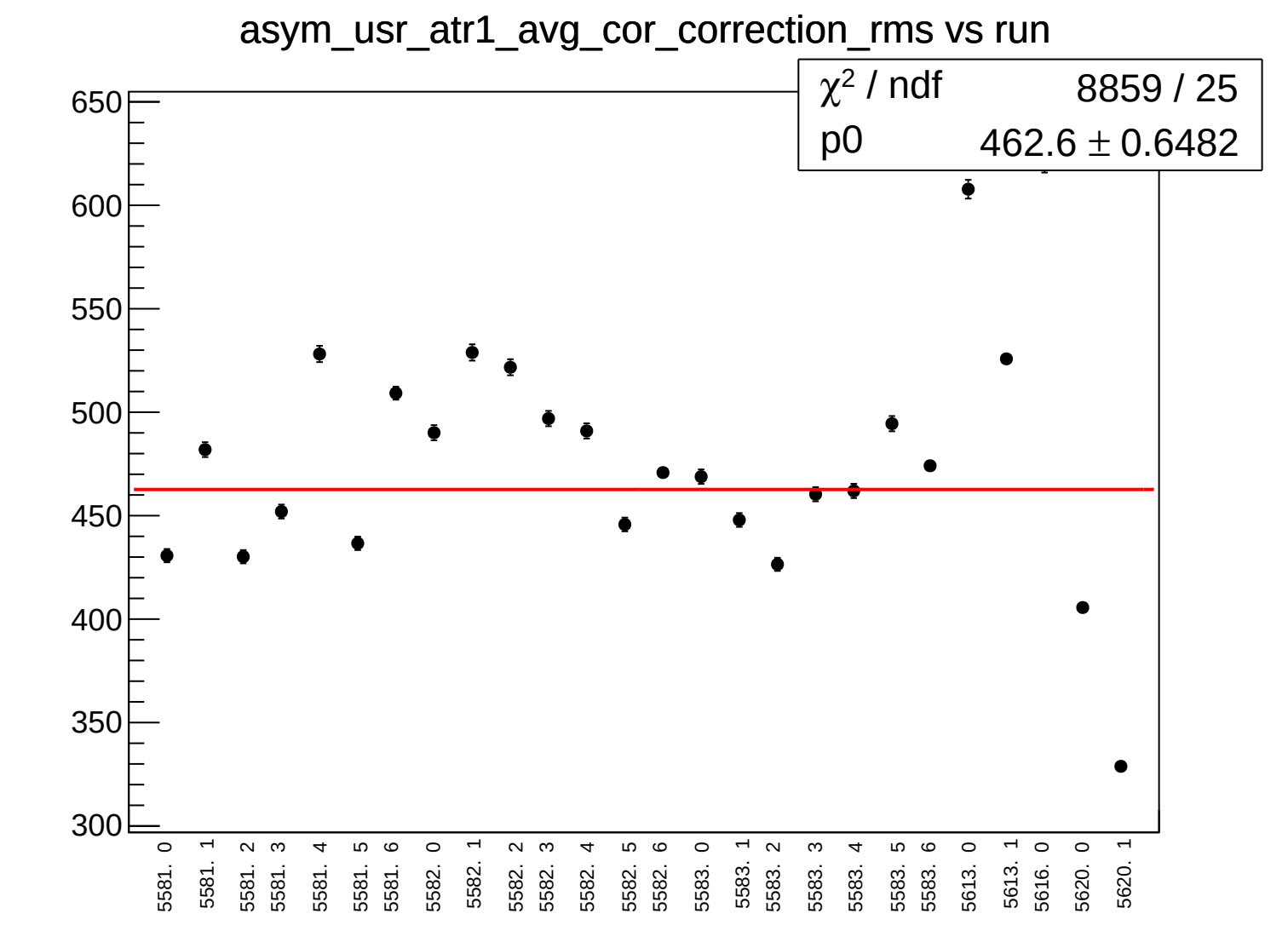

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 3.206e+04 / 32
p0 474.2 ± 0.6023
1100
1000
900
800
700
600
500
400
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

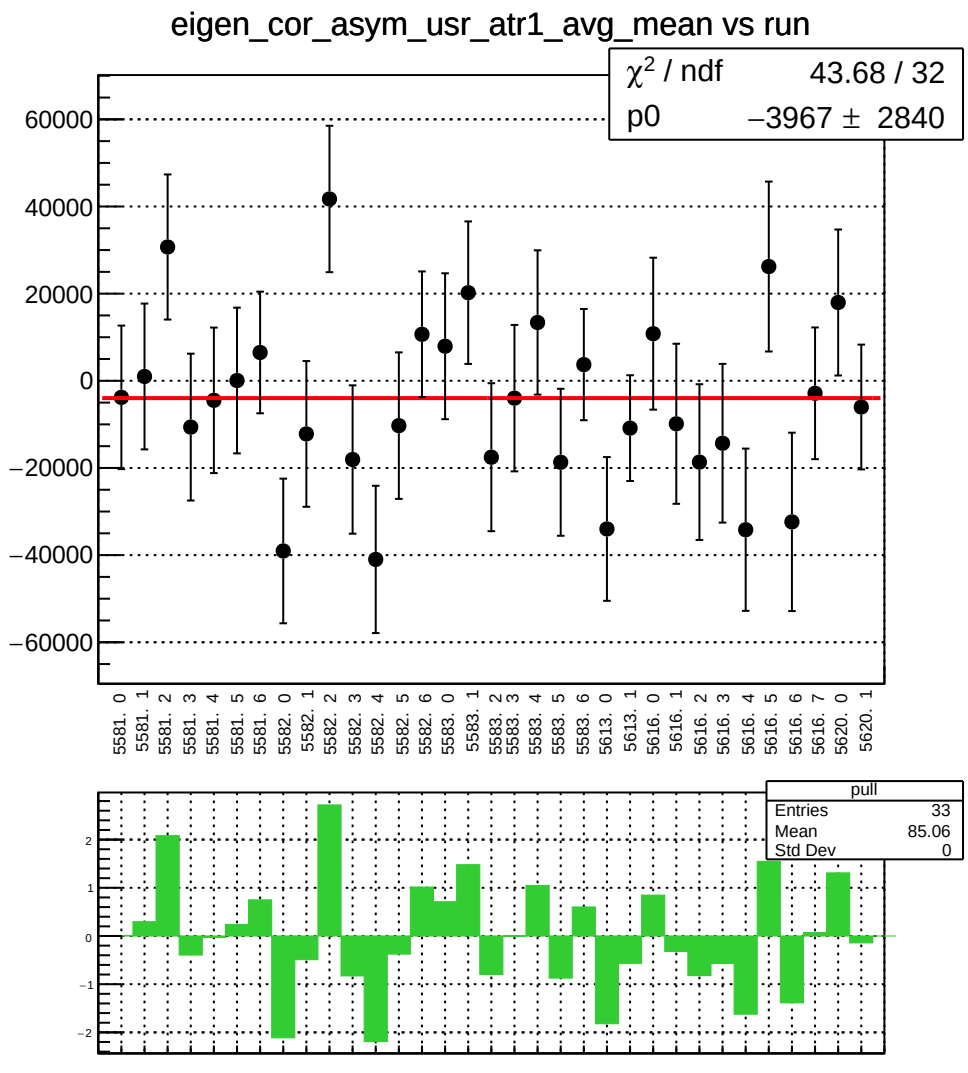

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 43.68 / 32
p0 −3967 ± 2840
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 85.06
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.0187
Std Dev 1.15
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

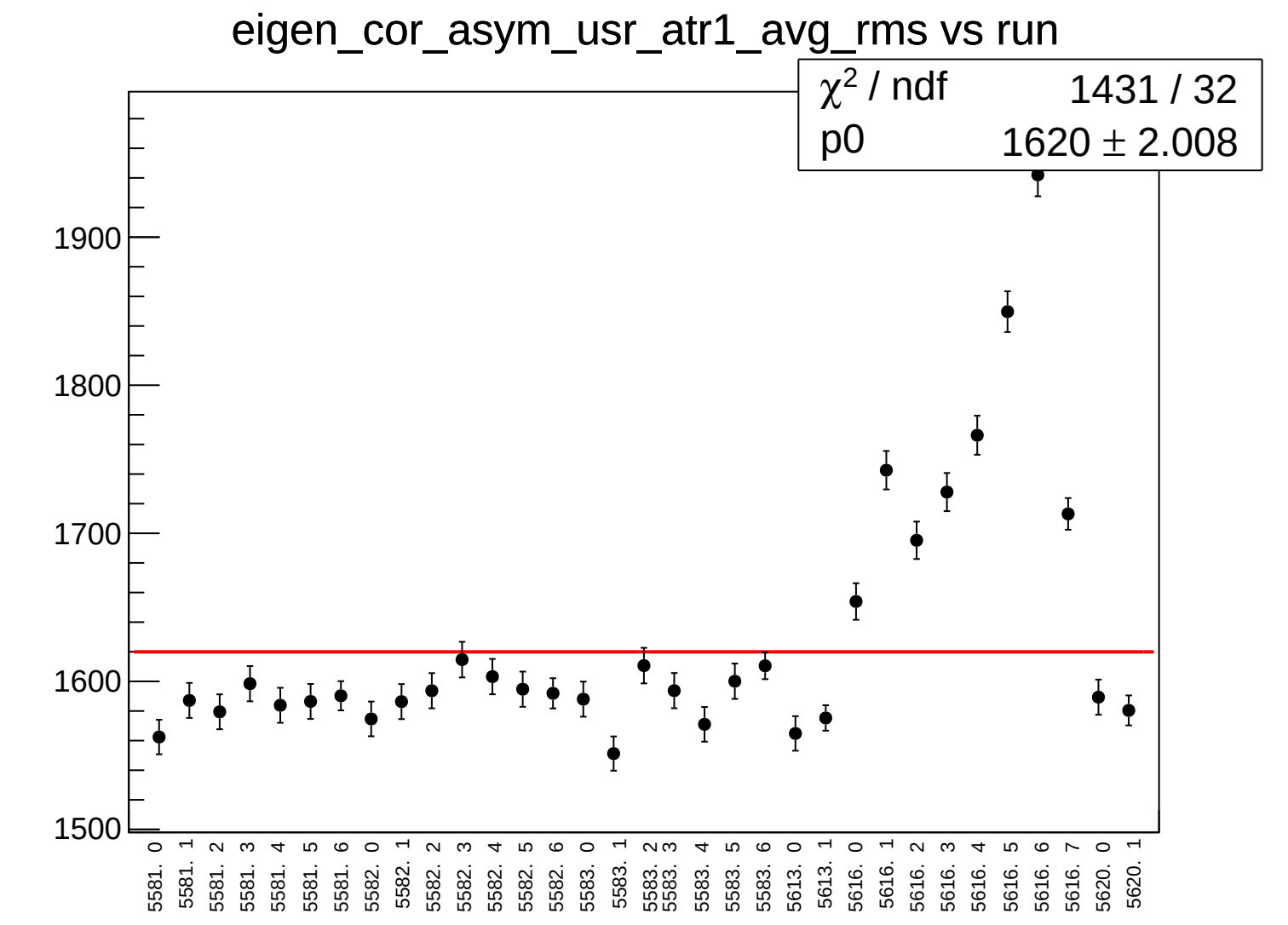

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 1431 / 32
p0 1620 ± 2.008
1900
1800
1700
1600
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

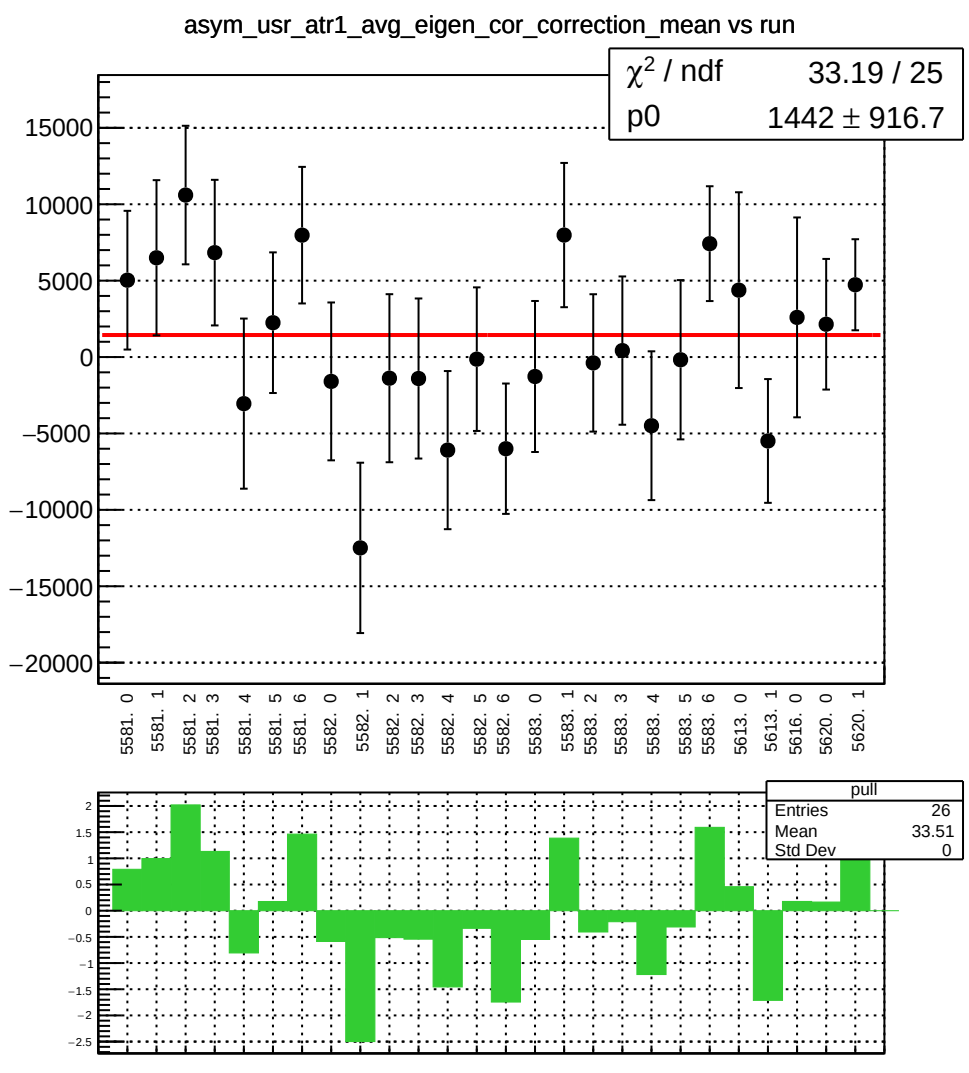

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 33.19 / 25
p0 1442 ± 916.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 33.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

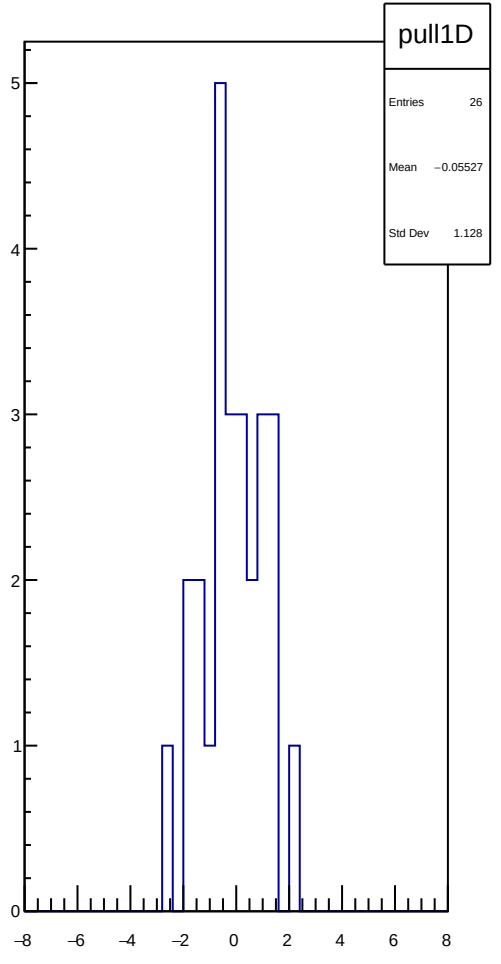

pull1D
Entries 26
Mean −0.05527
Std Dev 1.128
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

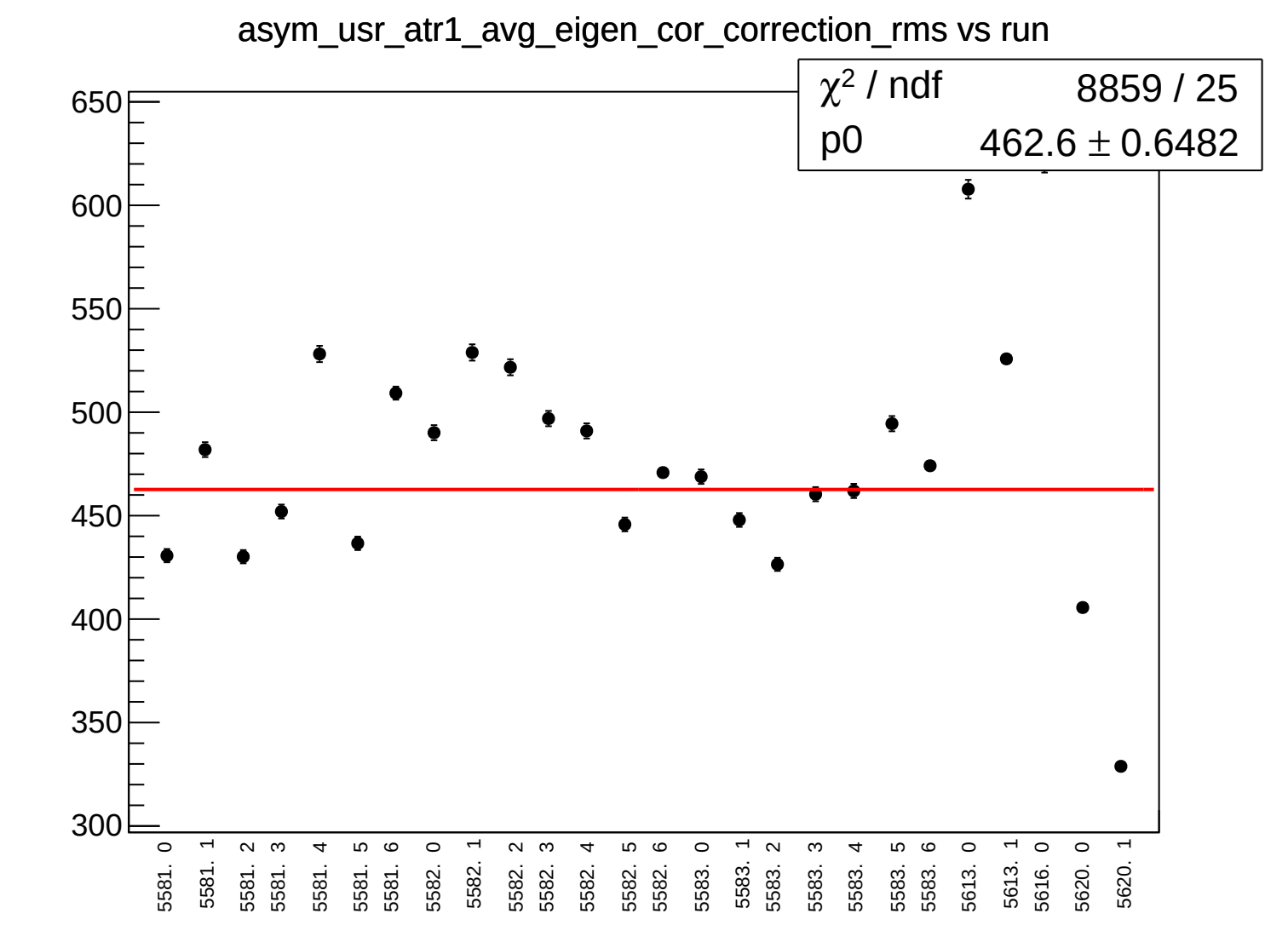

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 8859 / 25
p0 462.6 ± 0.6482
650
600
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

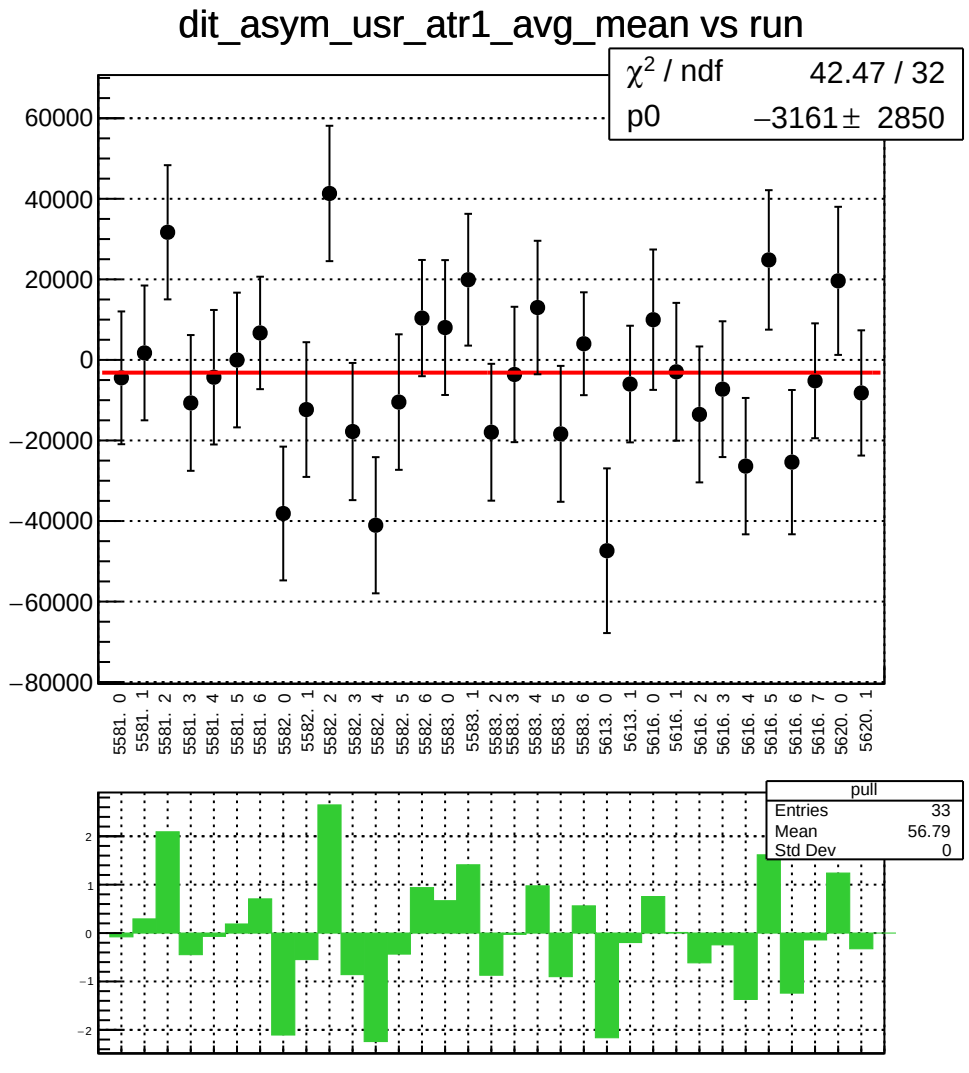

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 43.68 / 32
p0 −3967 ± 2840
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 85.06
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.0187
Std Dev 1.15
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

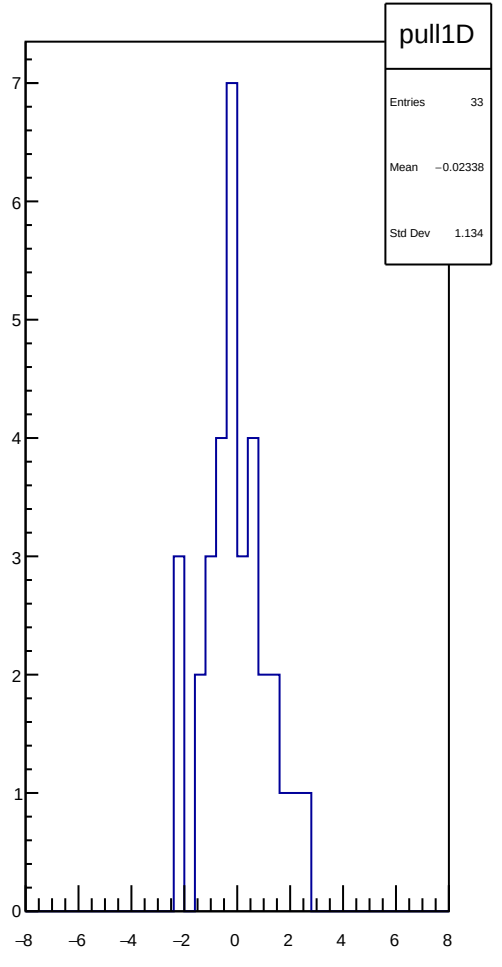

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 1431 / 32
p0 1620 ± 2.008
1900
1800
1700
1600
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

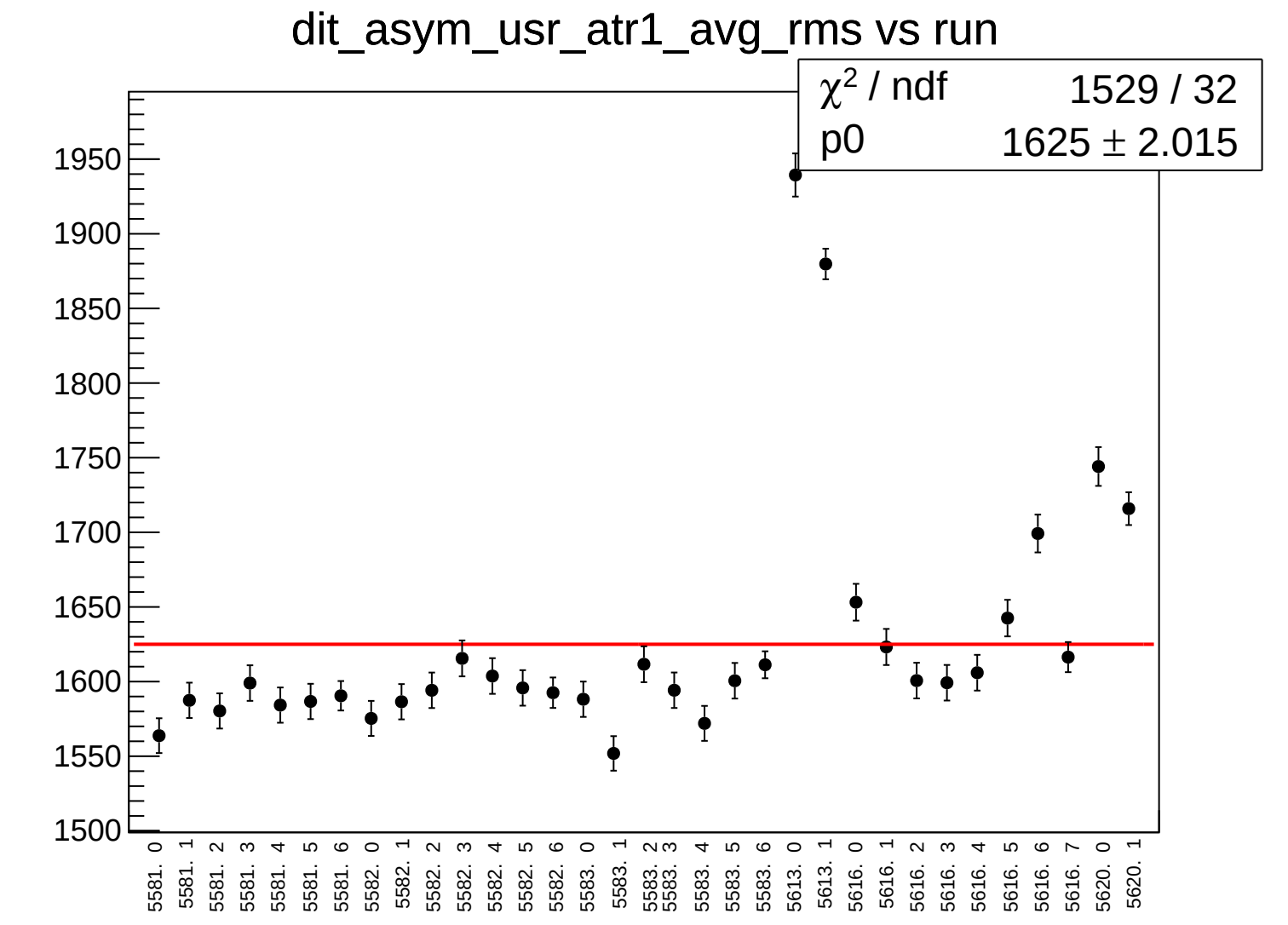

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 33.19 / 25
p0 1442 ± 916.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 33.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

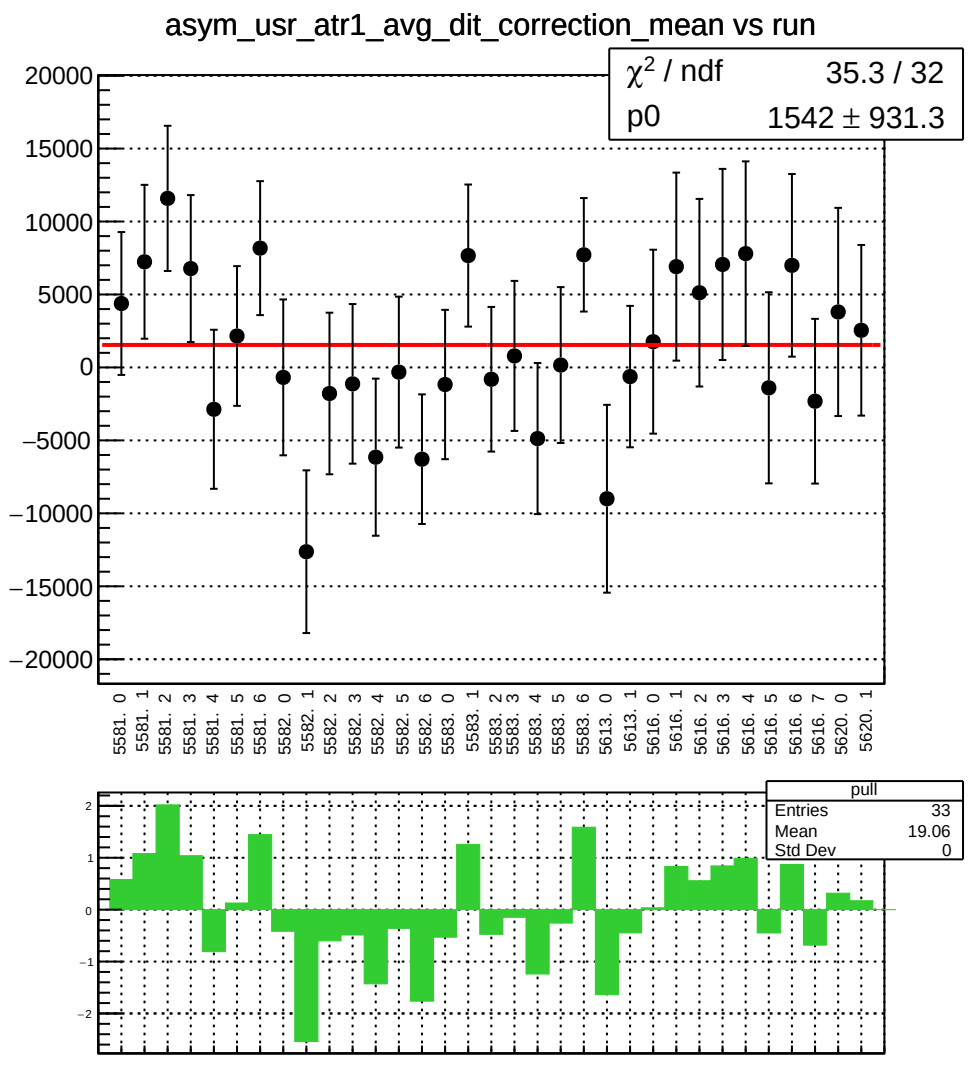

pull1D
Entries 26
Mean −0.05527
Std Dev 1.128
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

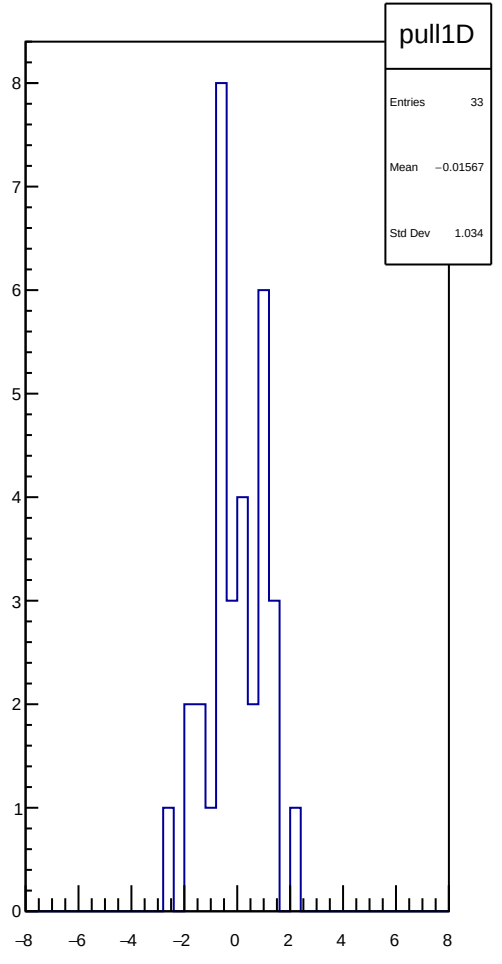

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 8859 / 25
p0 462.6 ± 0.6482
650
600
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

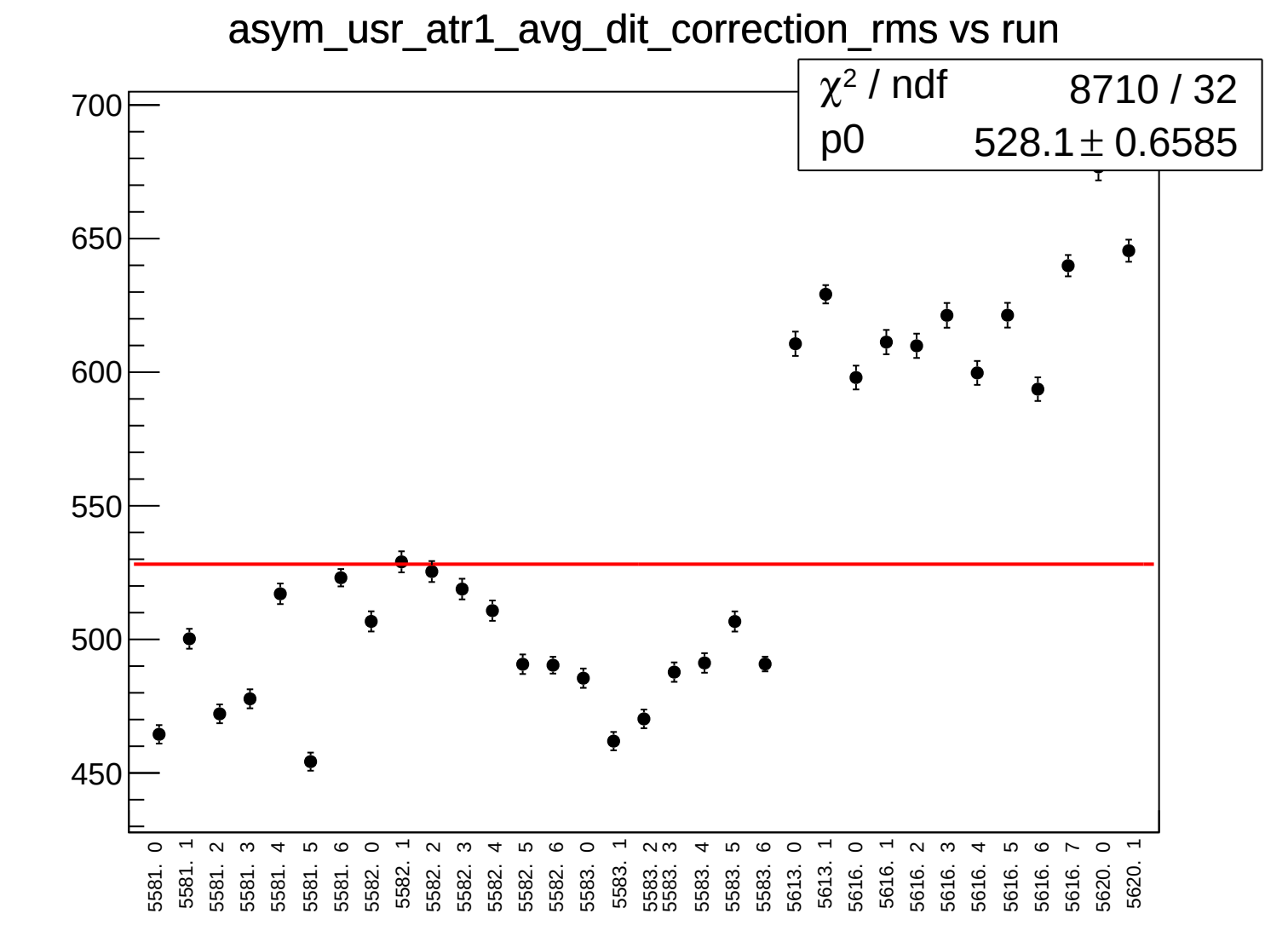

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 42.47 / 32
p0 −3161 ± 2850
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 56.79
Std Dev 0
2
1
0
−1
−2

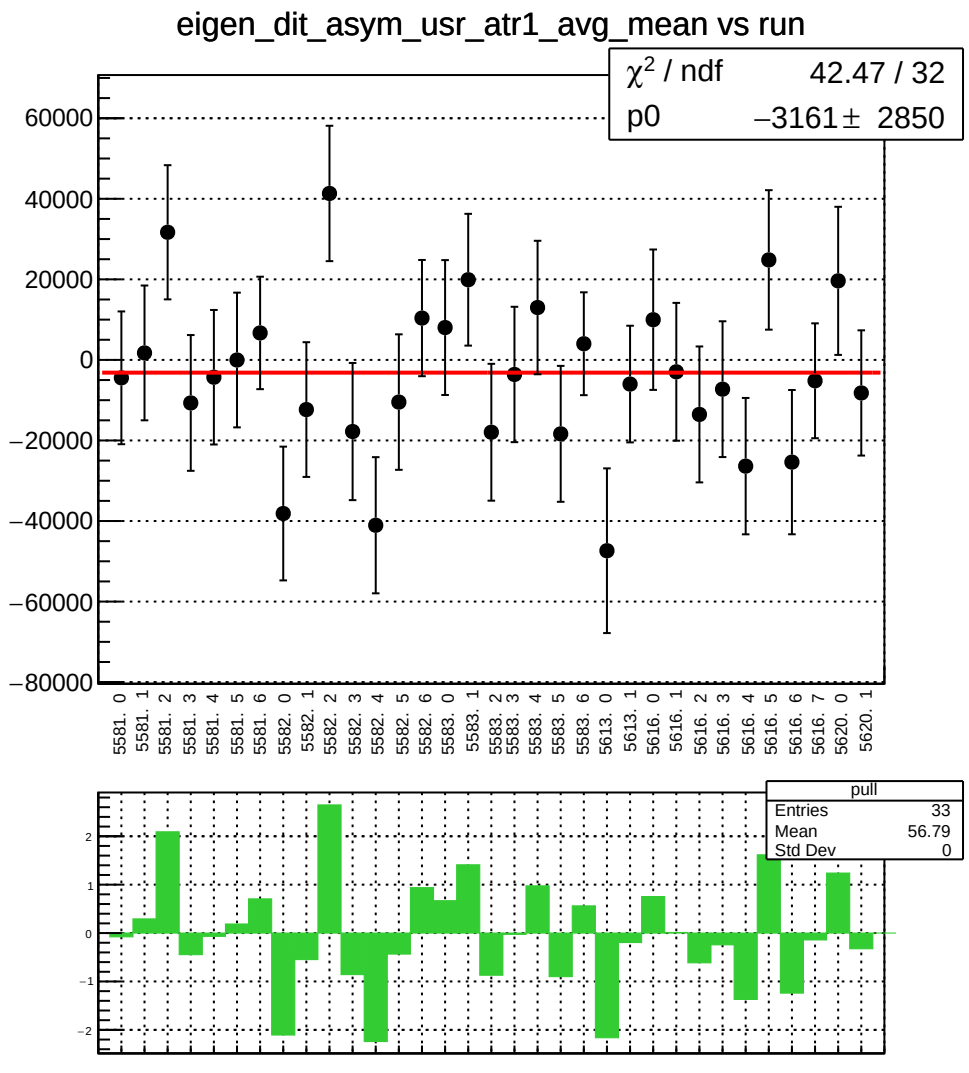

pull1D
Entries 33
Mean −0.02338
Std Dev 1.134
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

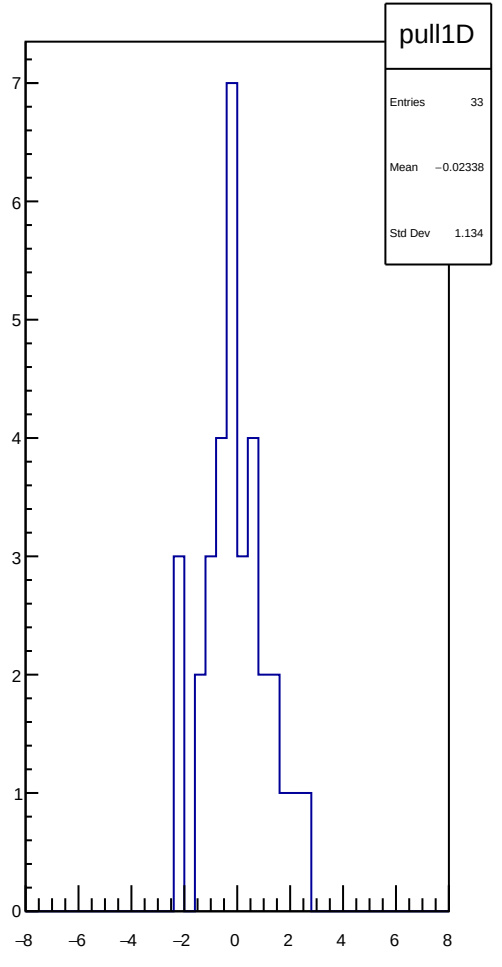

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 1529 / 32
p0 1625 ± 2.015
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

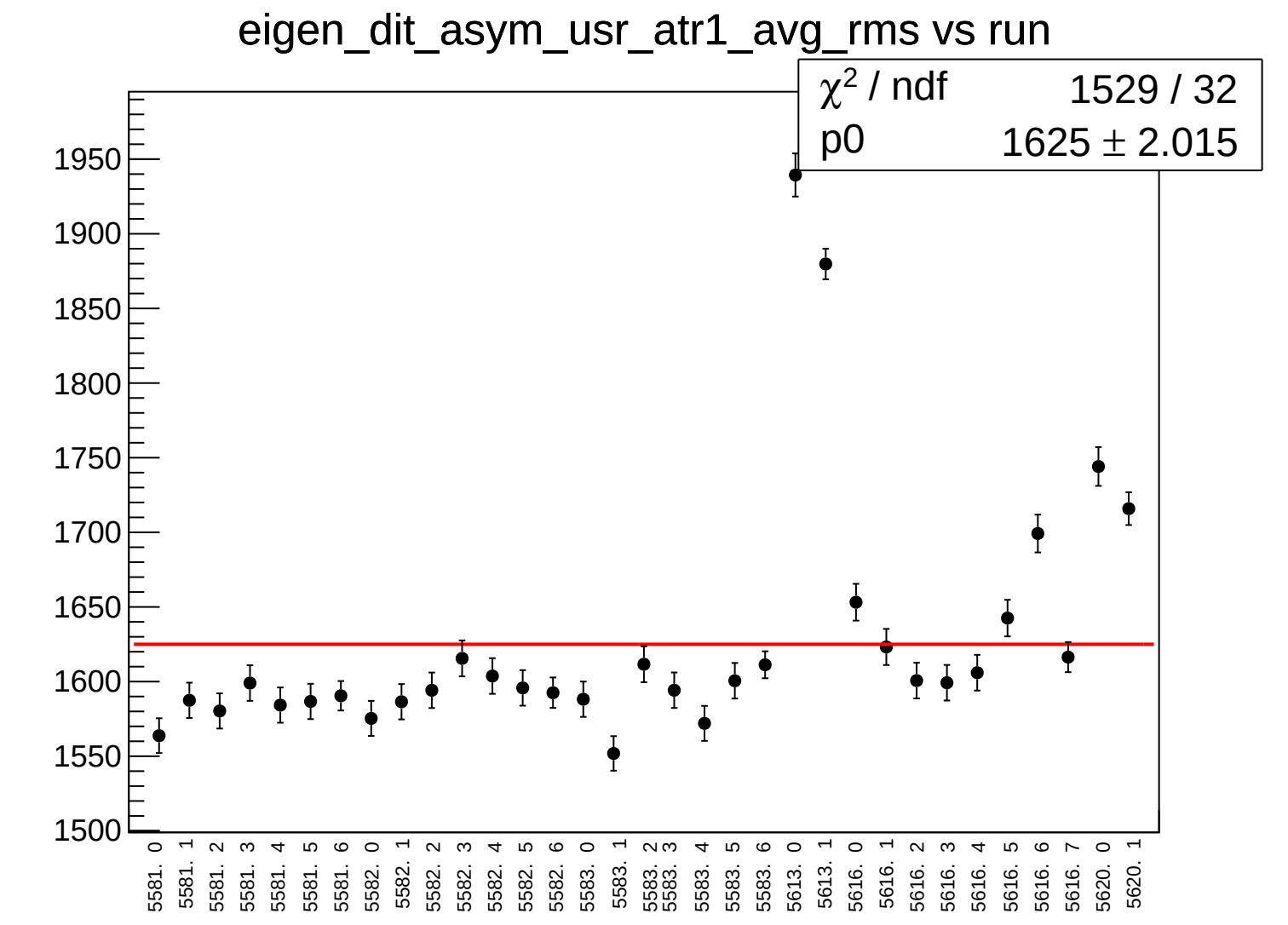

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 35.3 / 32
p0 1542 ± 931.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.06
Std Dev 0
2
1
0
−1
−2

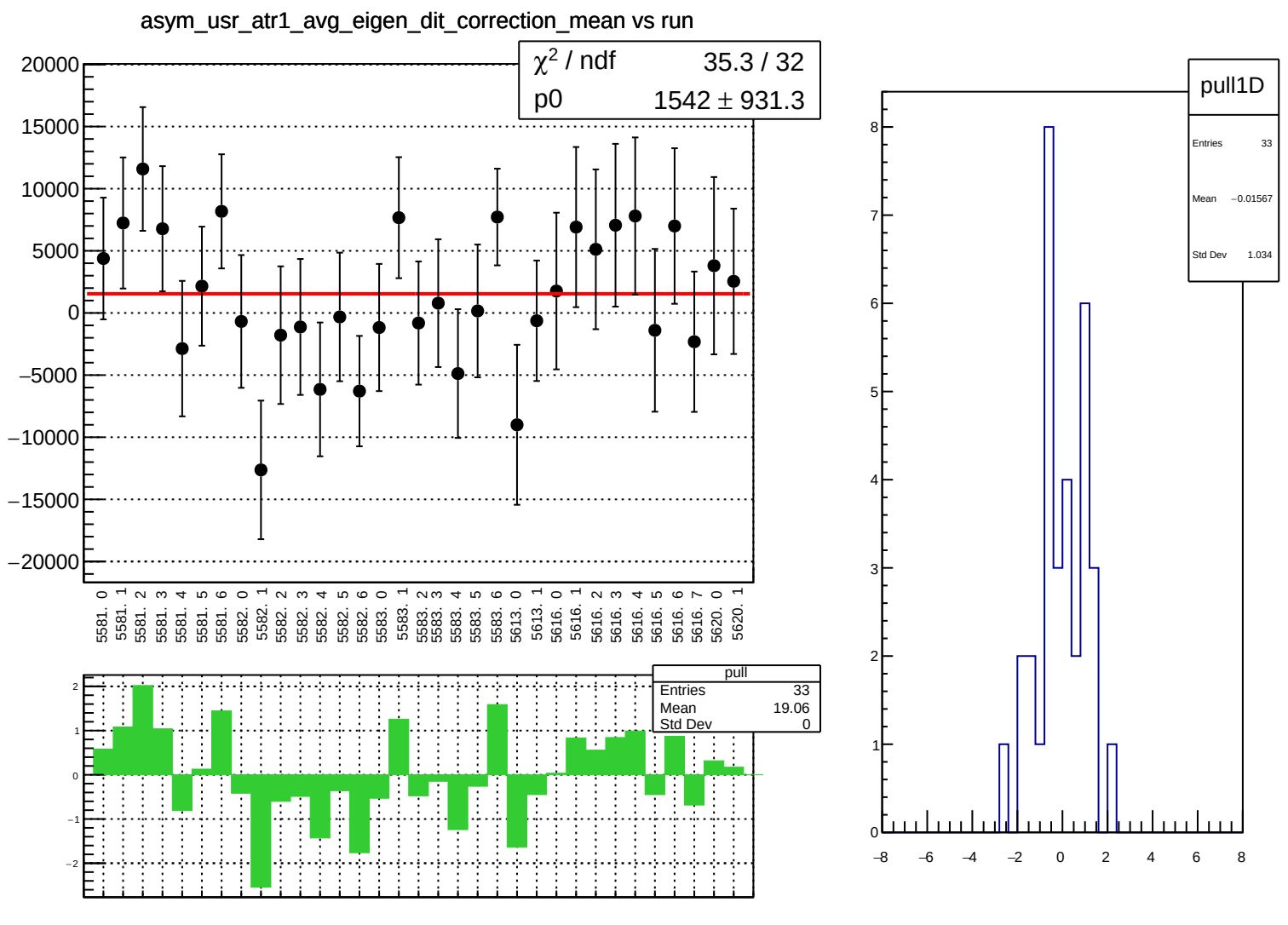

pull1D
Entries 33
Mean −0.01567
Std Dev 1.034
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

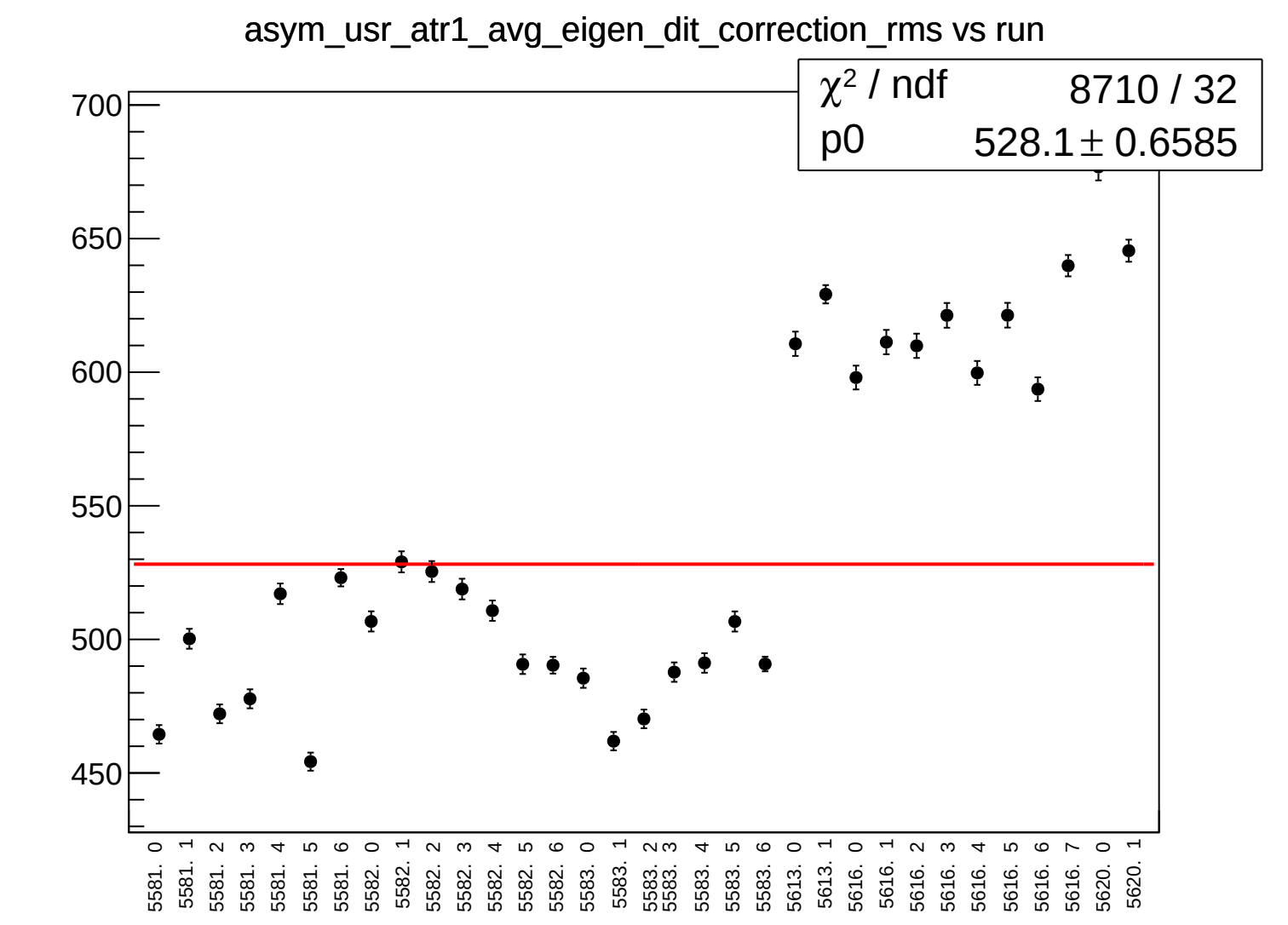

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 8710 / 32
p0 528.1 ± 0.6585
700
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

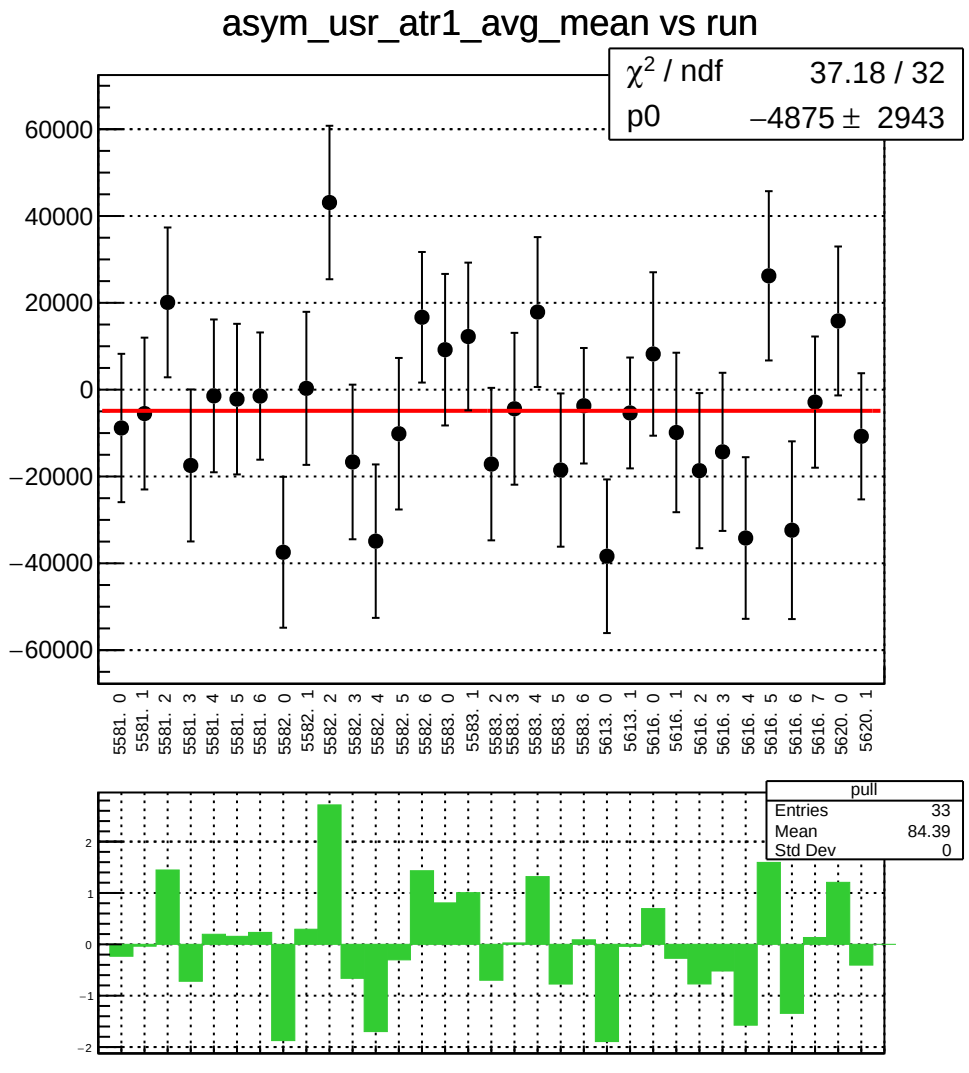

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 42.47 / 32
p0 −3161 ± 2850
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 56.79
Std Dev 0
2
1
0
−1
−2

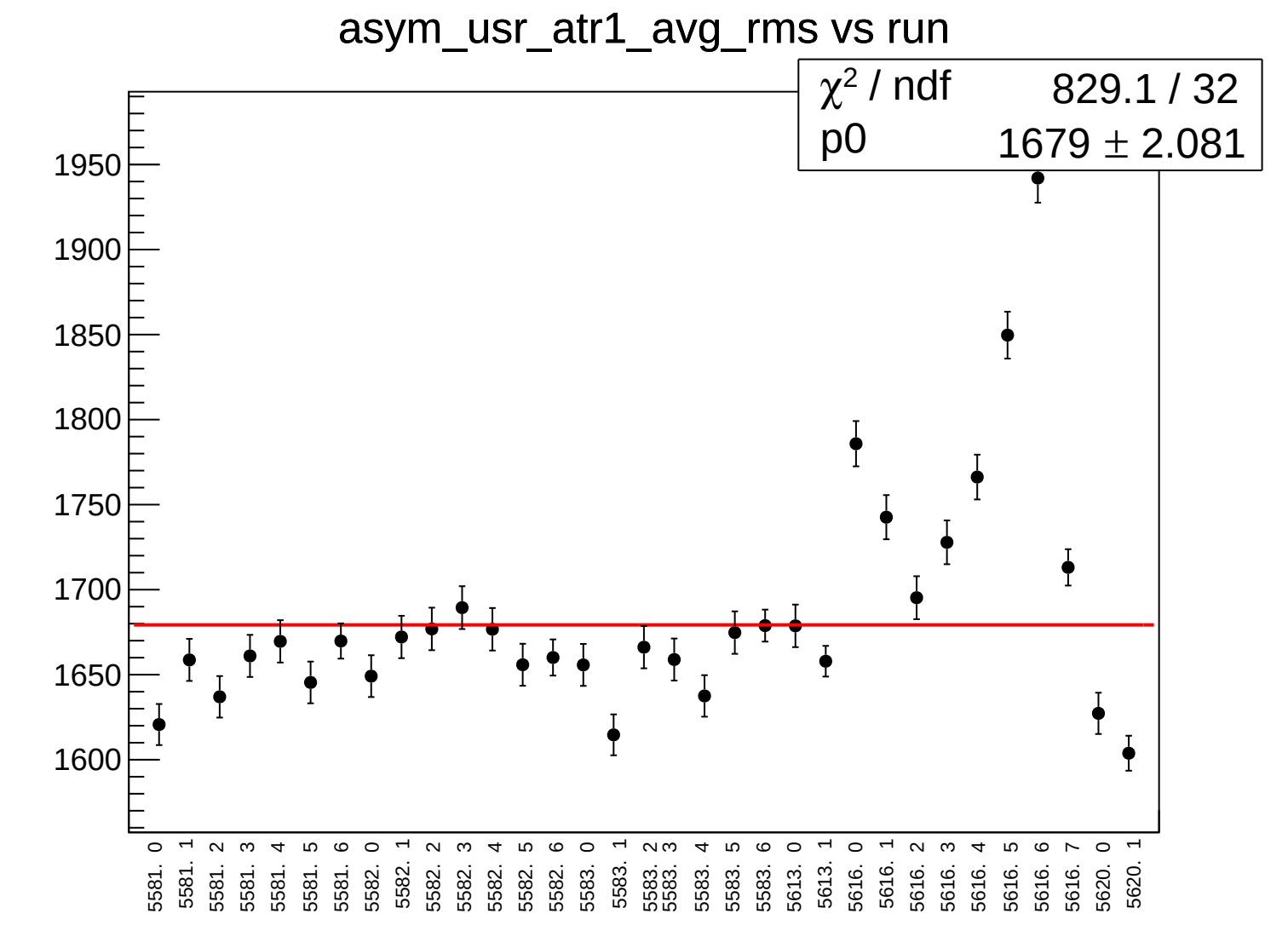

pull1D
Entries 33
Mean −0.02338
Std Dev 1.134
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

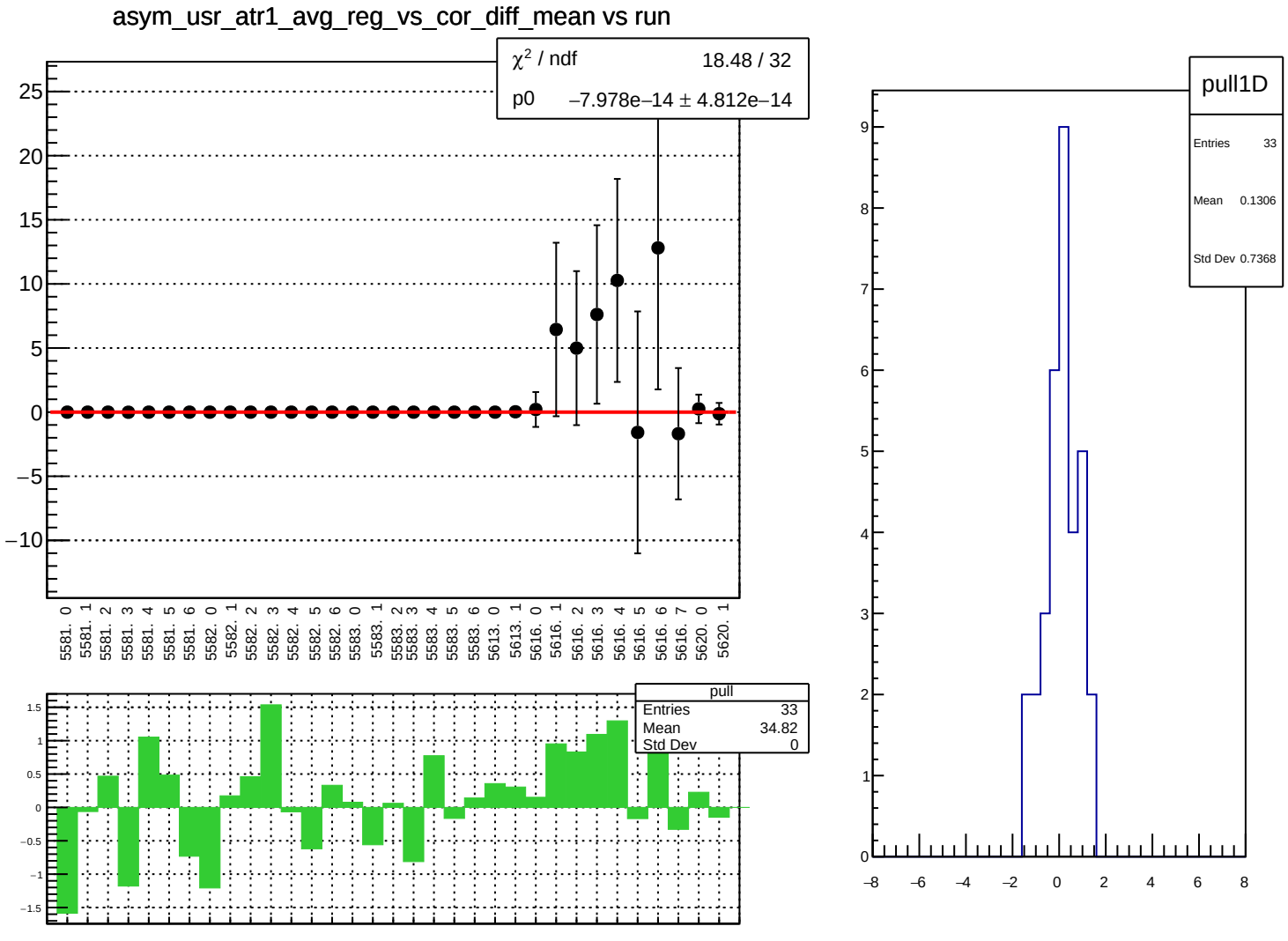

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 1529 / 32
p0 1625 ± 2.015
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

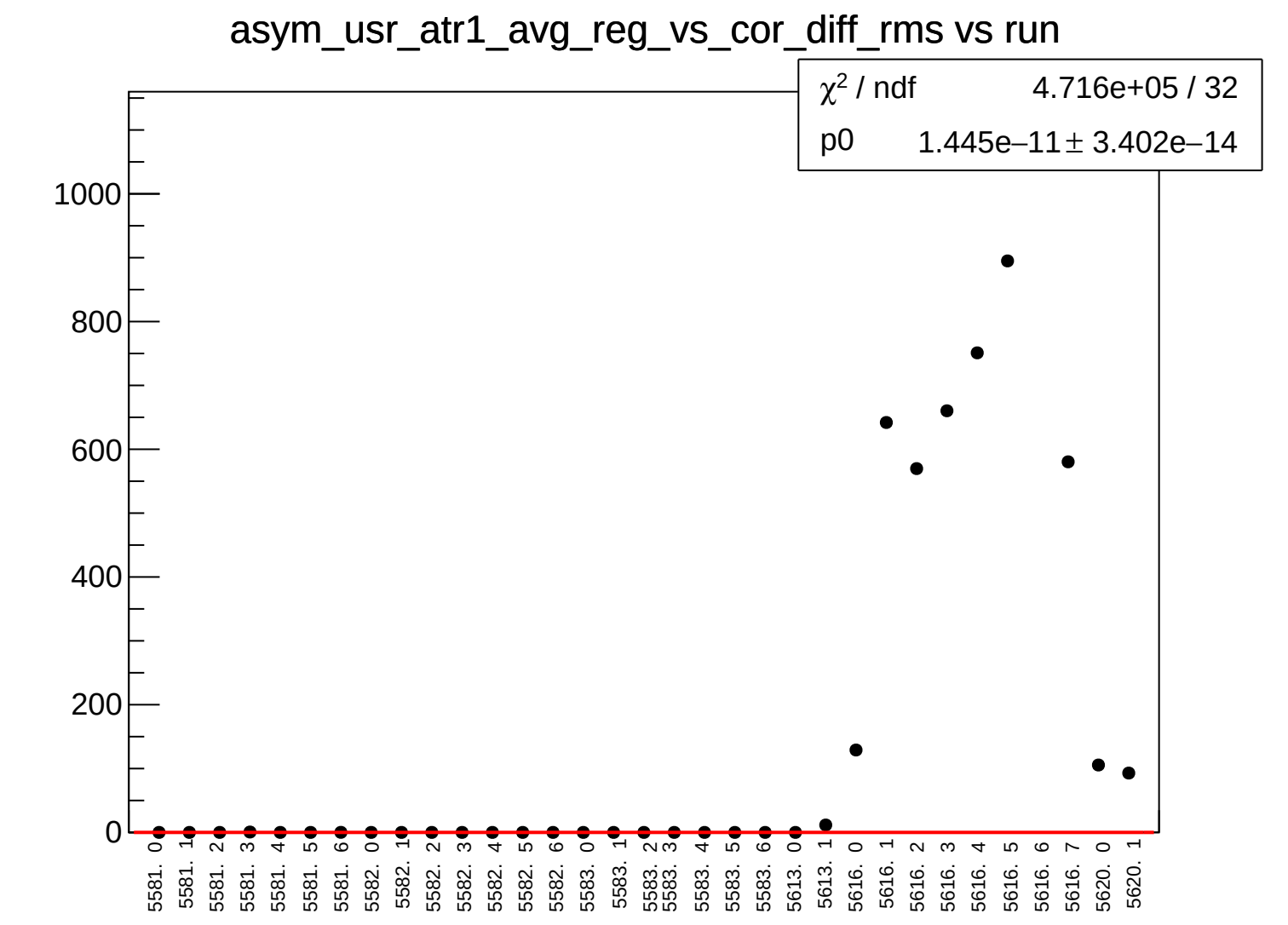

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 35.3 / 32
p0 1542 ± 931.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.06
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.01567
Std Dev 1.034
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

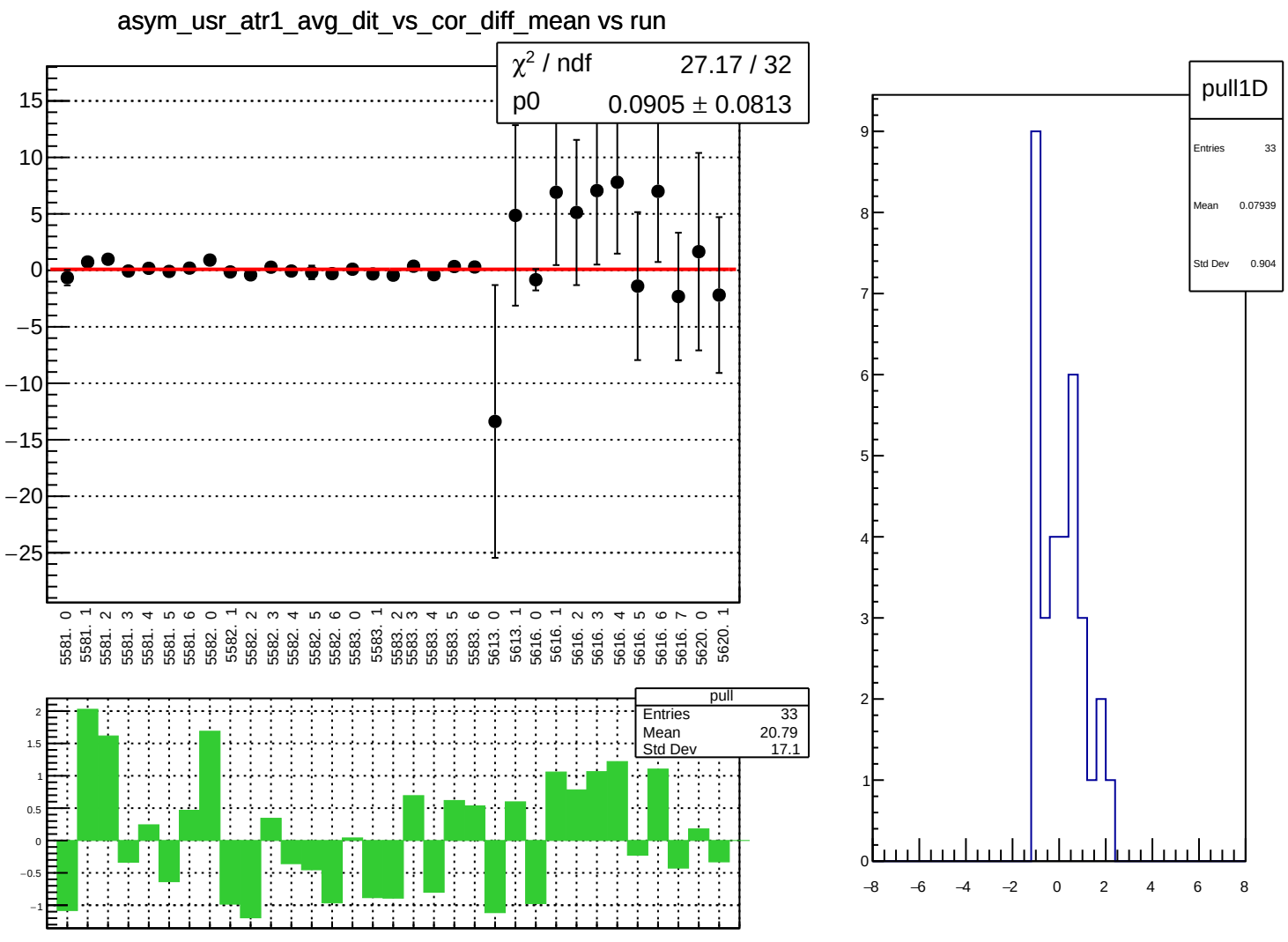

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8710 / 32
p0 528.1 ± 0.6585
700
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

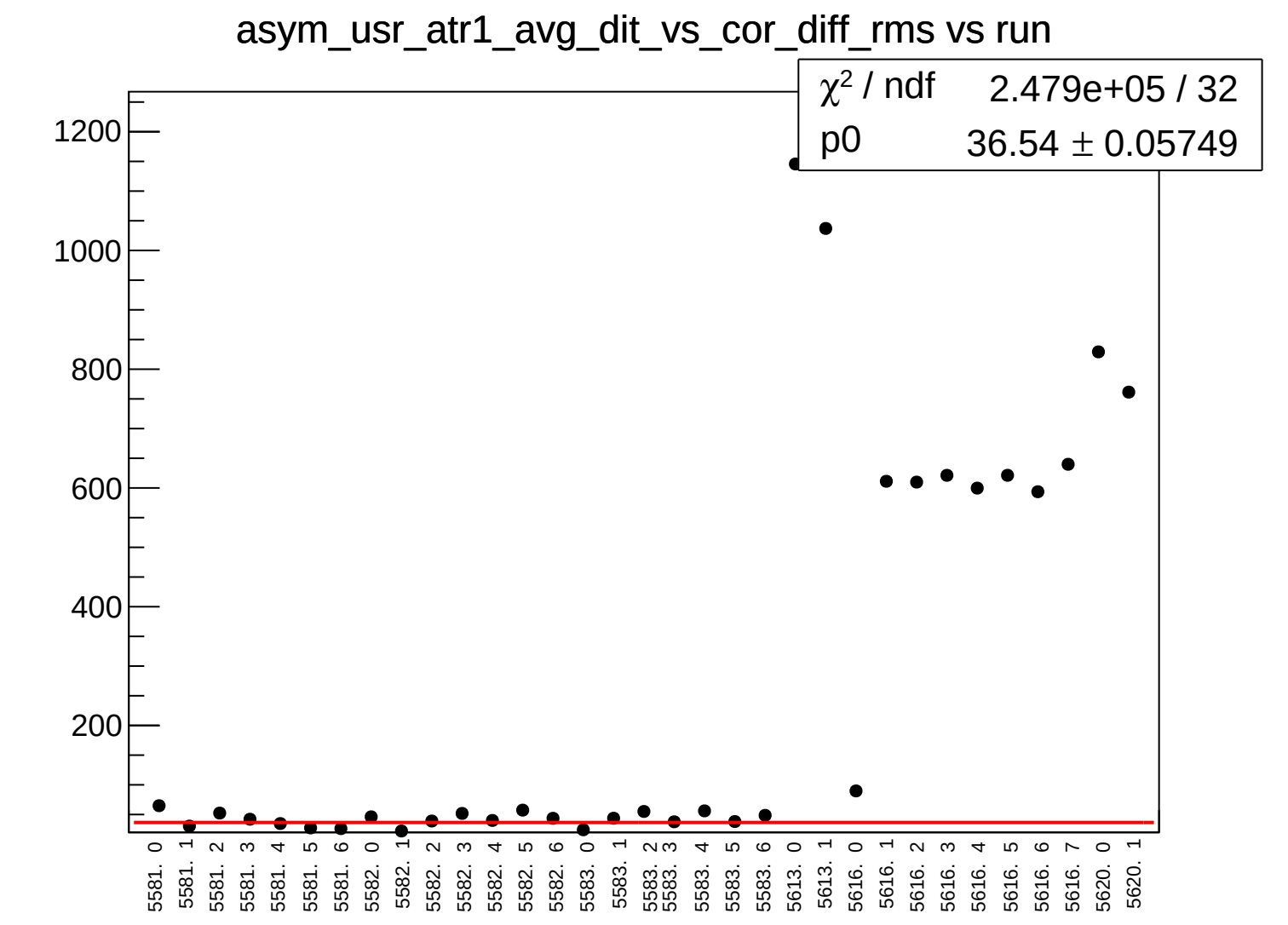

asym_usr_atr1_avg_mean vs run
χ² / ndf 37.18 / 32
p0 −4875 ± 2943
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 84.39
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.014
Std Dev 1.061
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

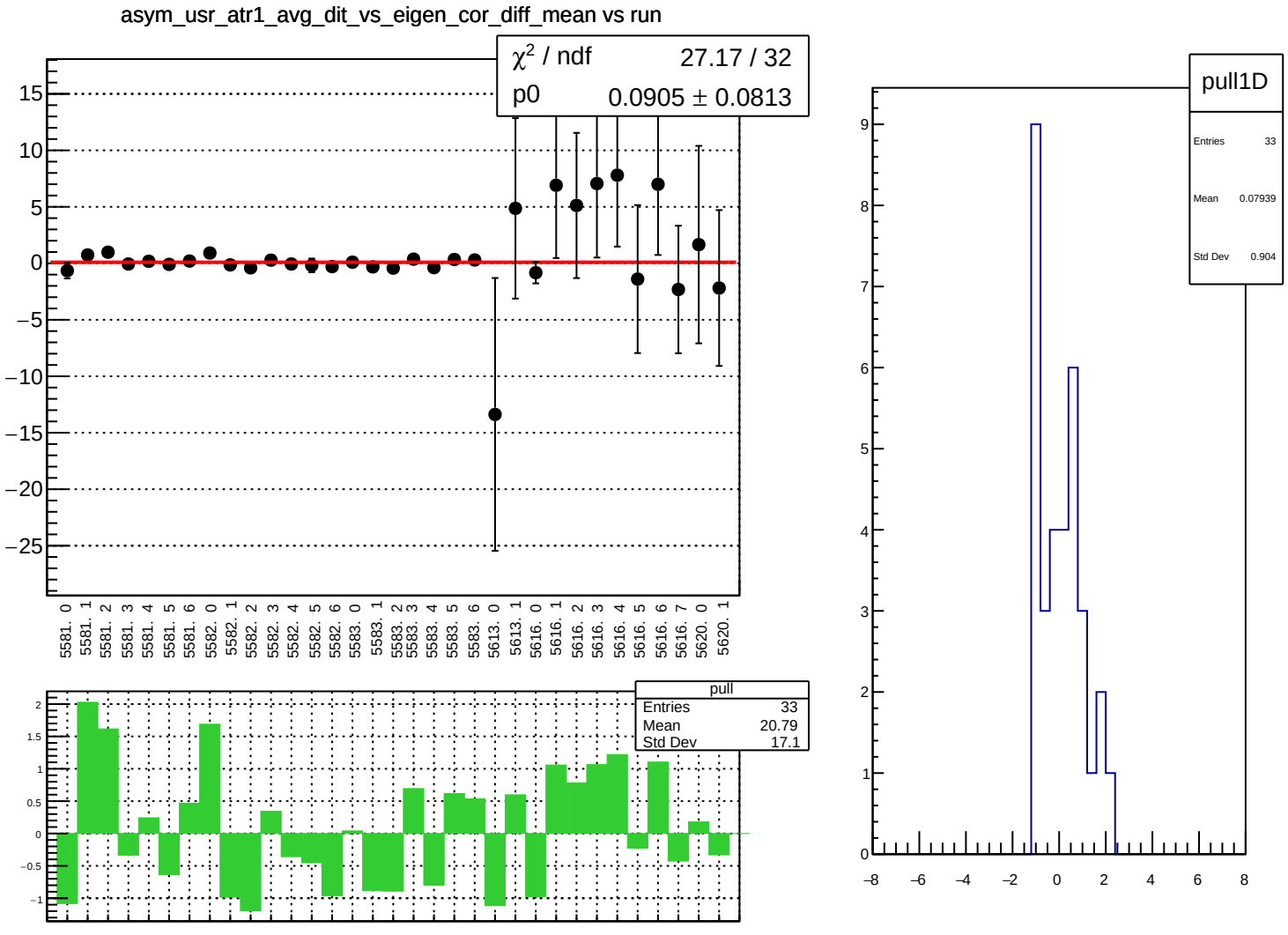

asym_usr_atr1_avg_rms vs run
χ² / ndf 829.1 / 32
p0 1679 ± 2.081
1950
1900
1850
1800
1750
1700
1650
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

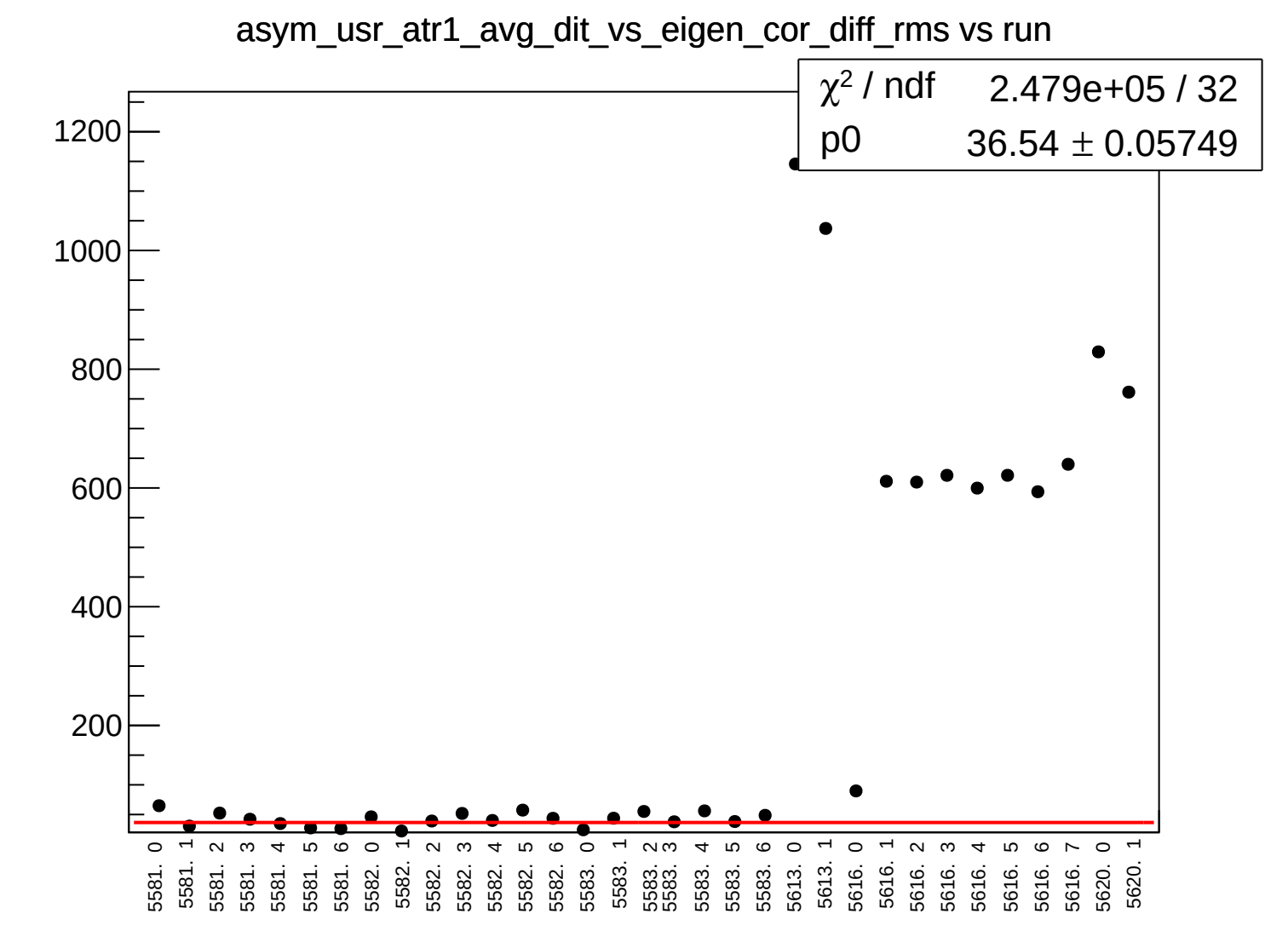

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 18.48 / 32
p0 −7.978e−14 ± 4.812e−14
25
20
15
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.82
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1306
Std Dev 0.7368
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

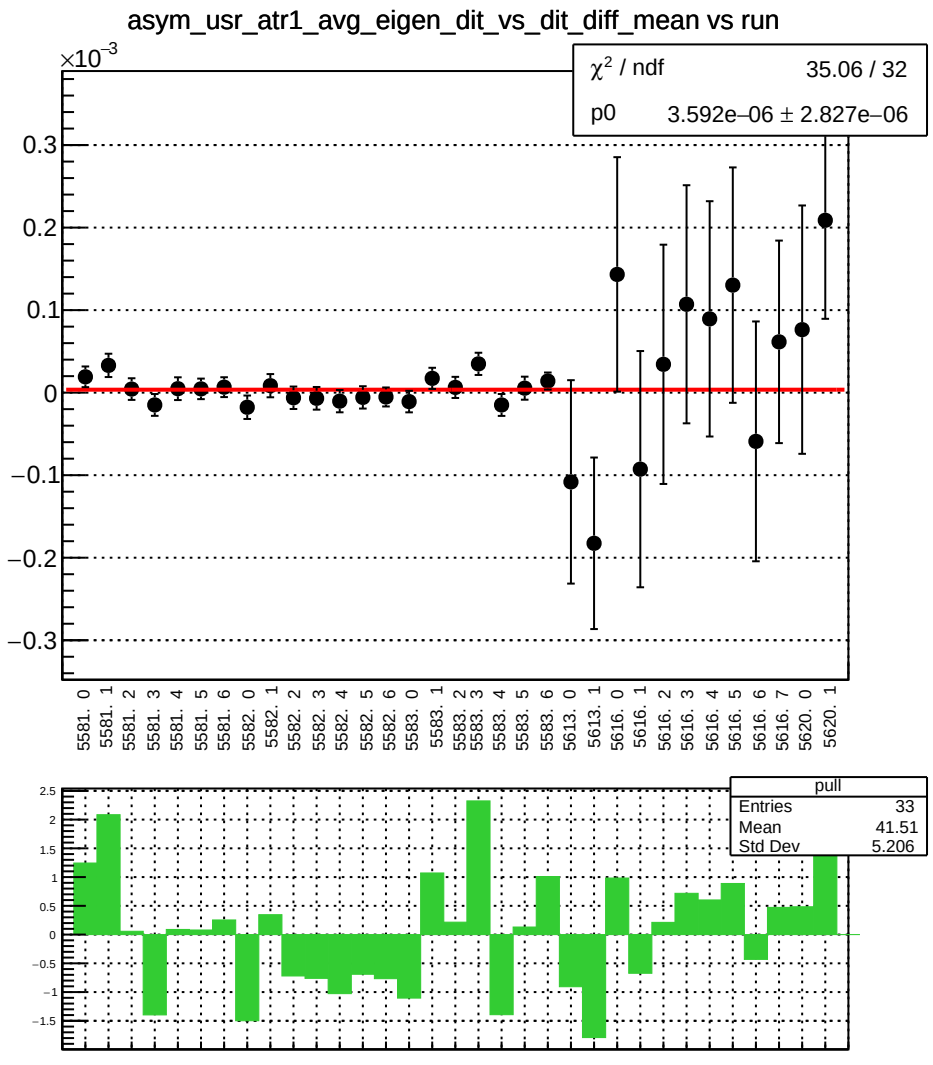

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.716e+05 / 32
p0 1.445e−11 ± 3.402e−14
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

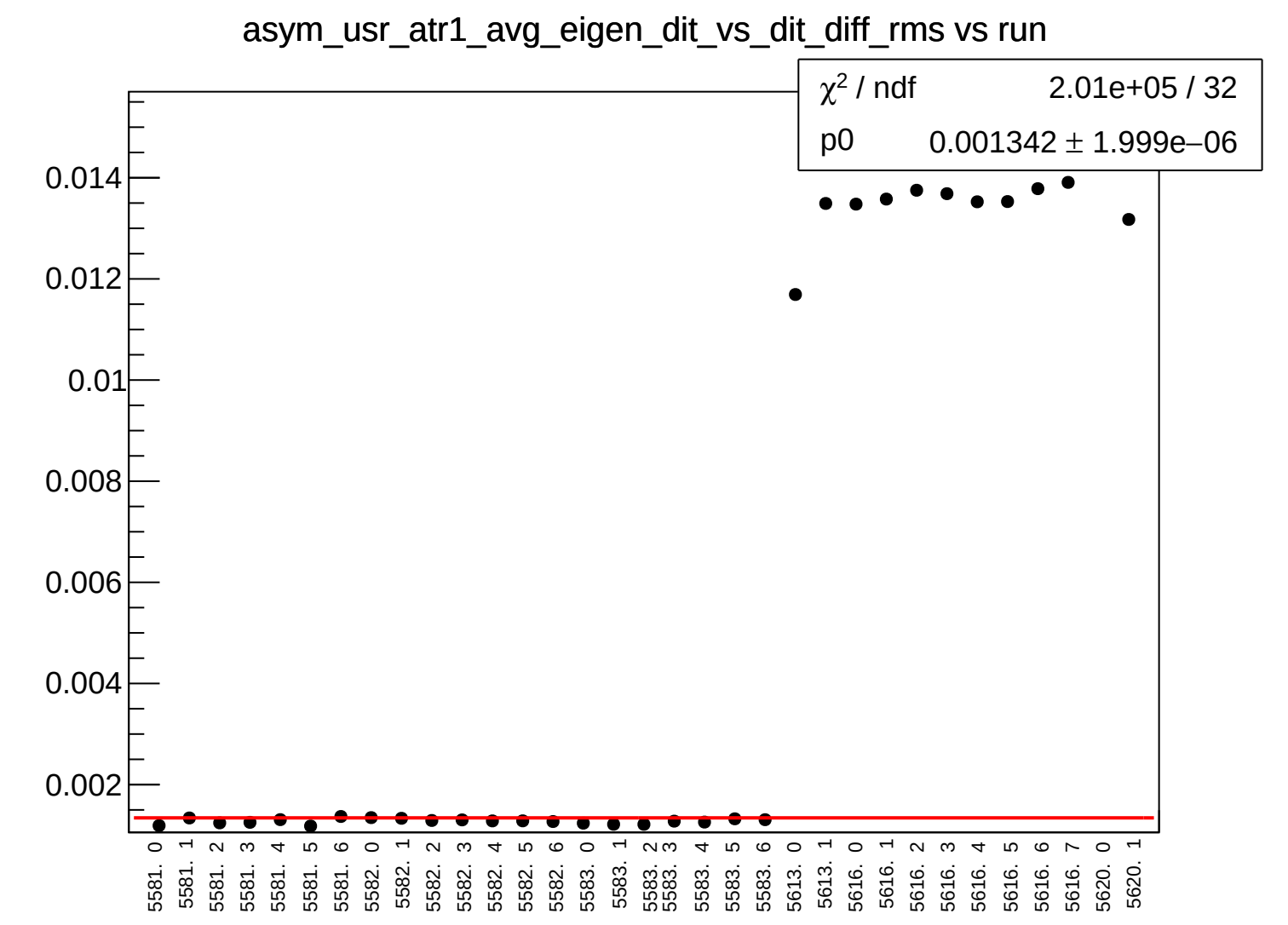

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 27.17 / 32
p0 0.0905 ± 0.0813
15
10
5
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.79
Std Dev 17.1
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.07939
Std Dev 0.904
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

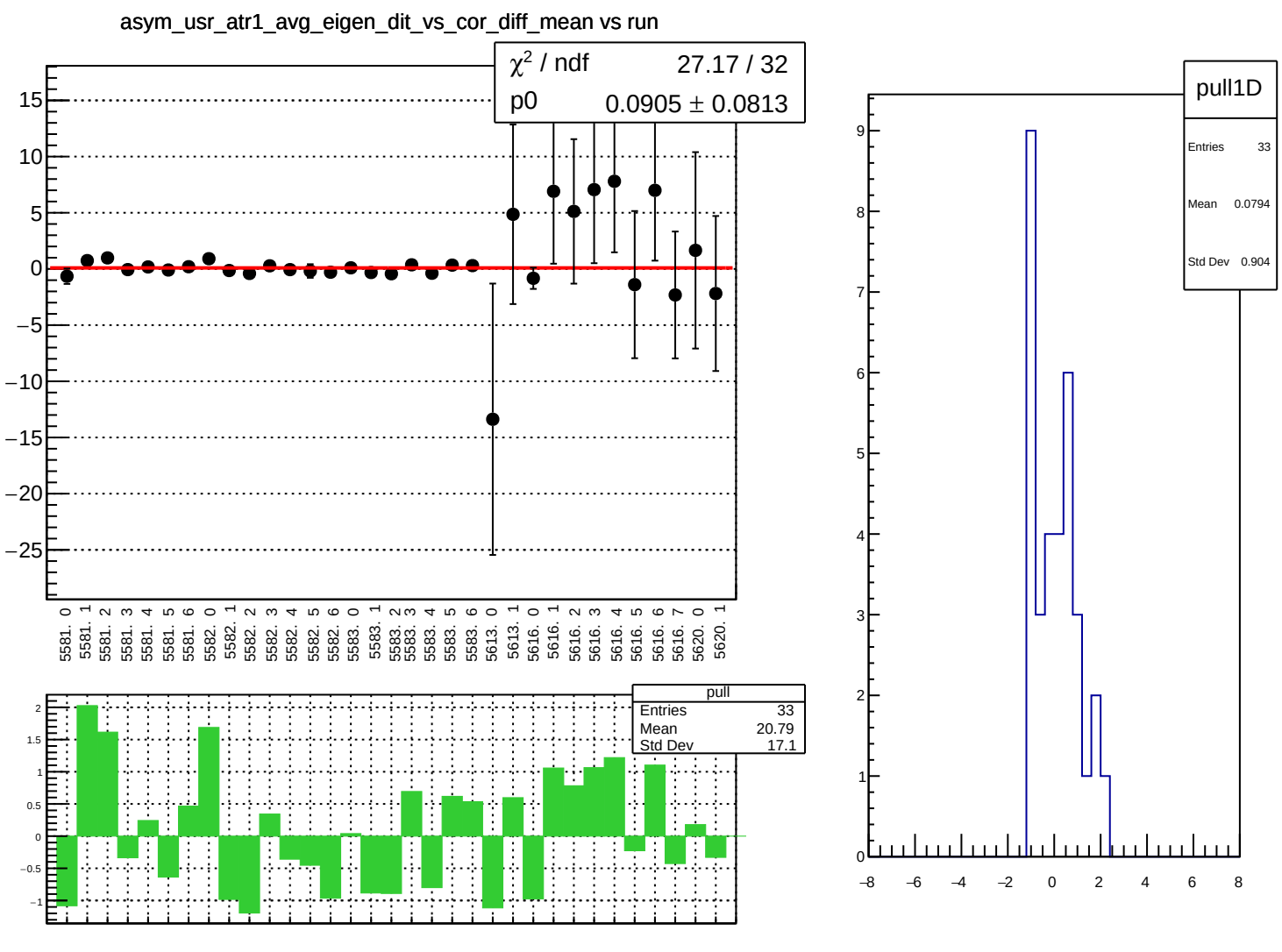

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.479e+05 / 32
p0 36.54 ± 0.05749
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

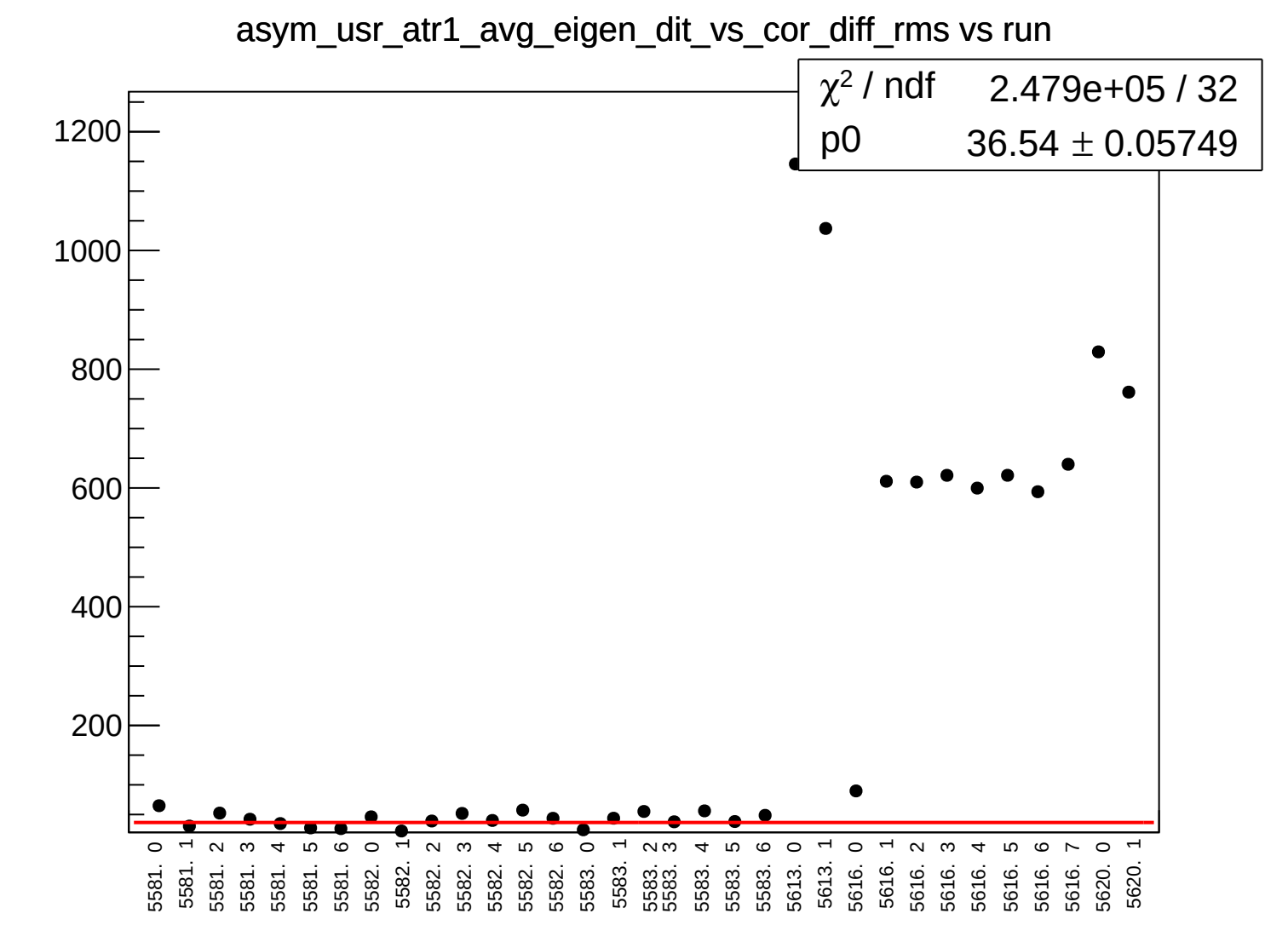

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.17 / 32
p0 0.0905 ± 0.0813
15
10
5
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.79
Std Dev 17.1
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.07939
Std Dev 0.904
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

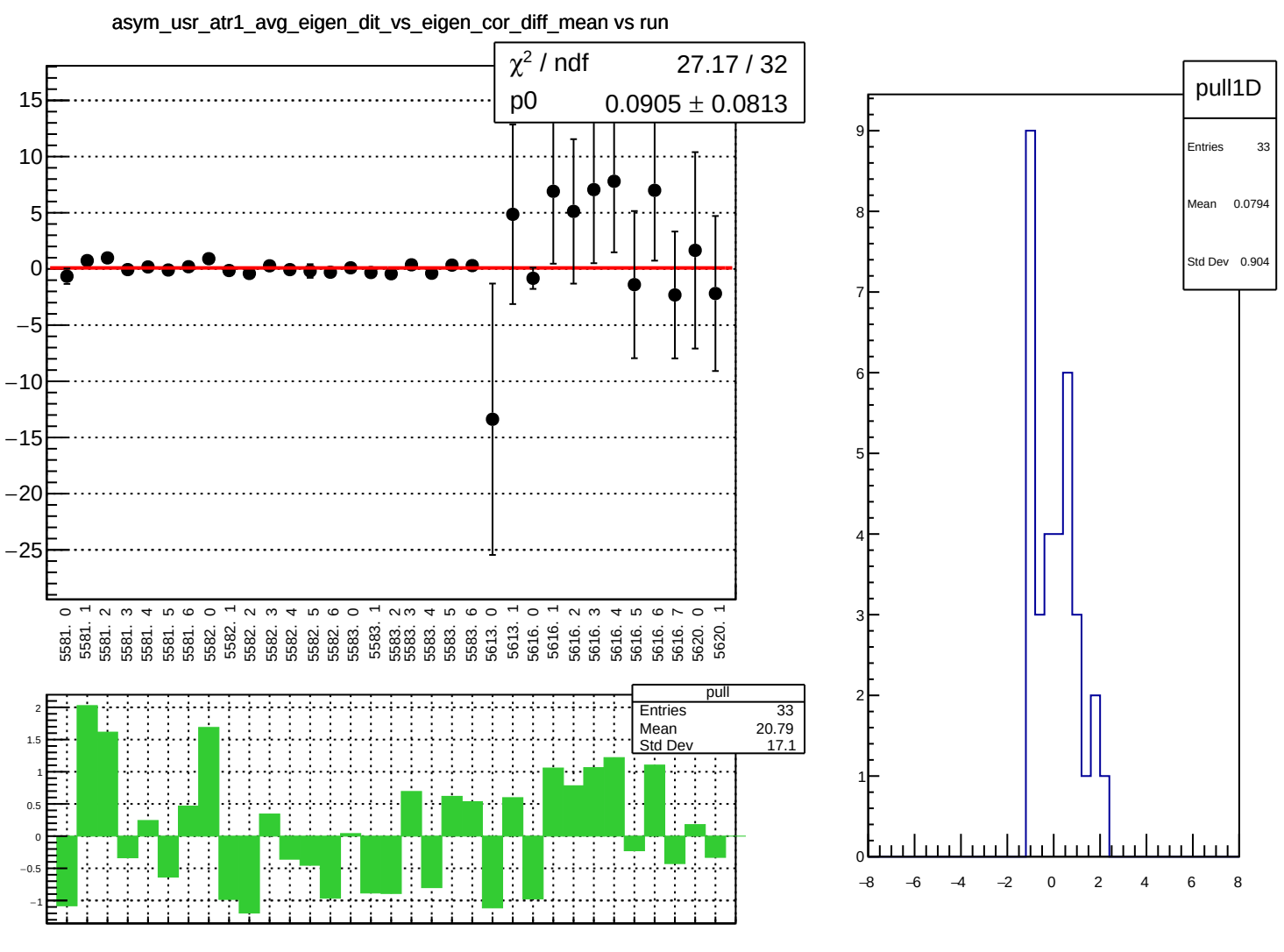

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.479e+05 / 32
p0 36.54 ± 0.05749
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

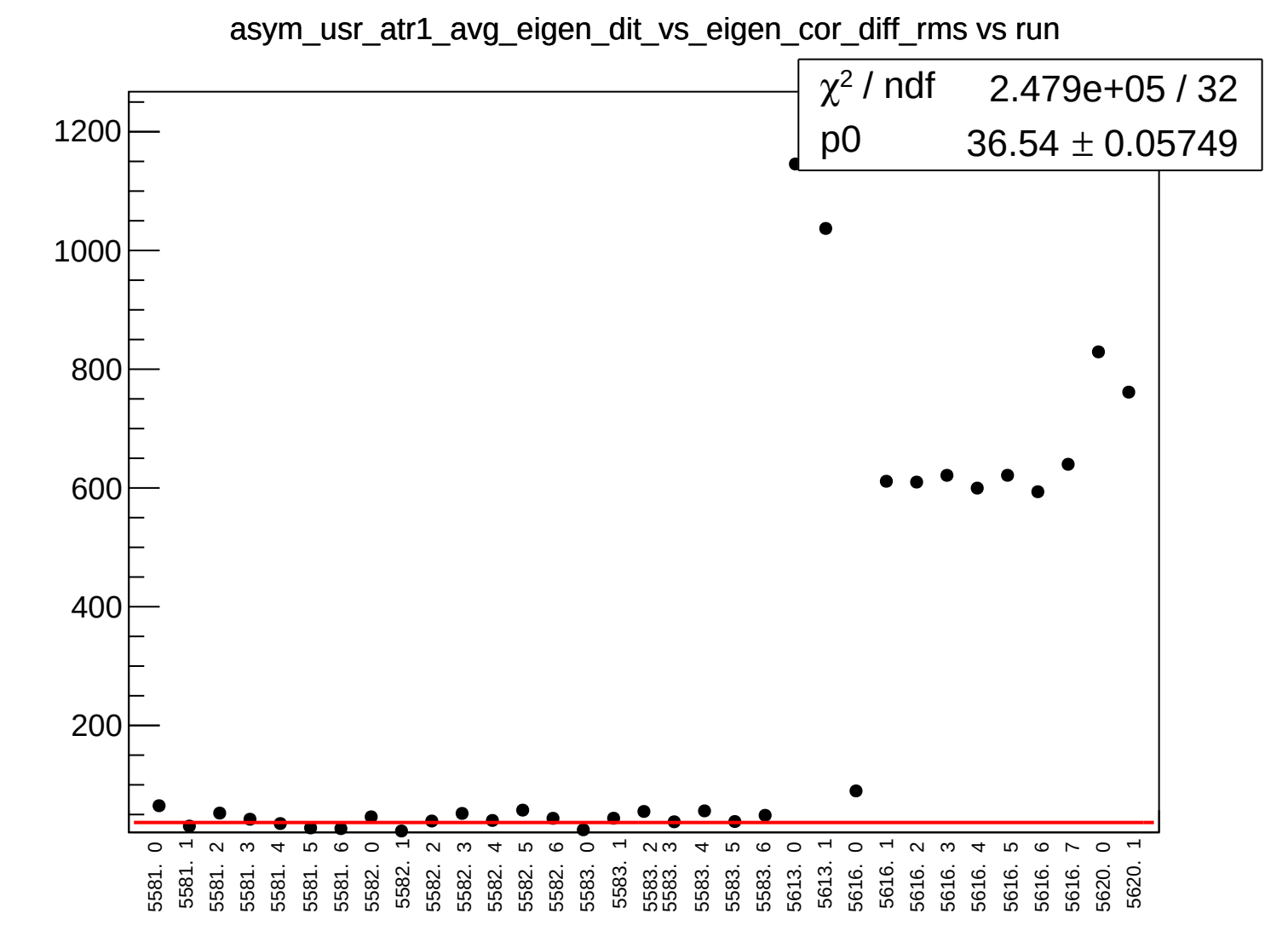

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.06 / 32
p0 3.592e−06 ± 2.827e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 41.51
Std Dev 5.206
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.05536
Std Dev 1.029
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

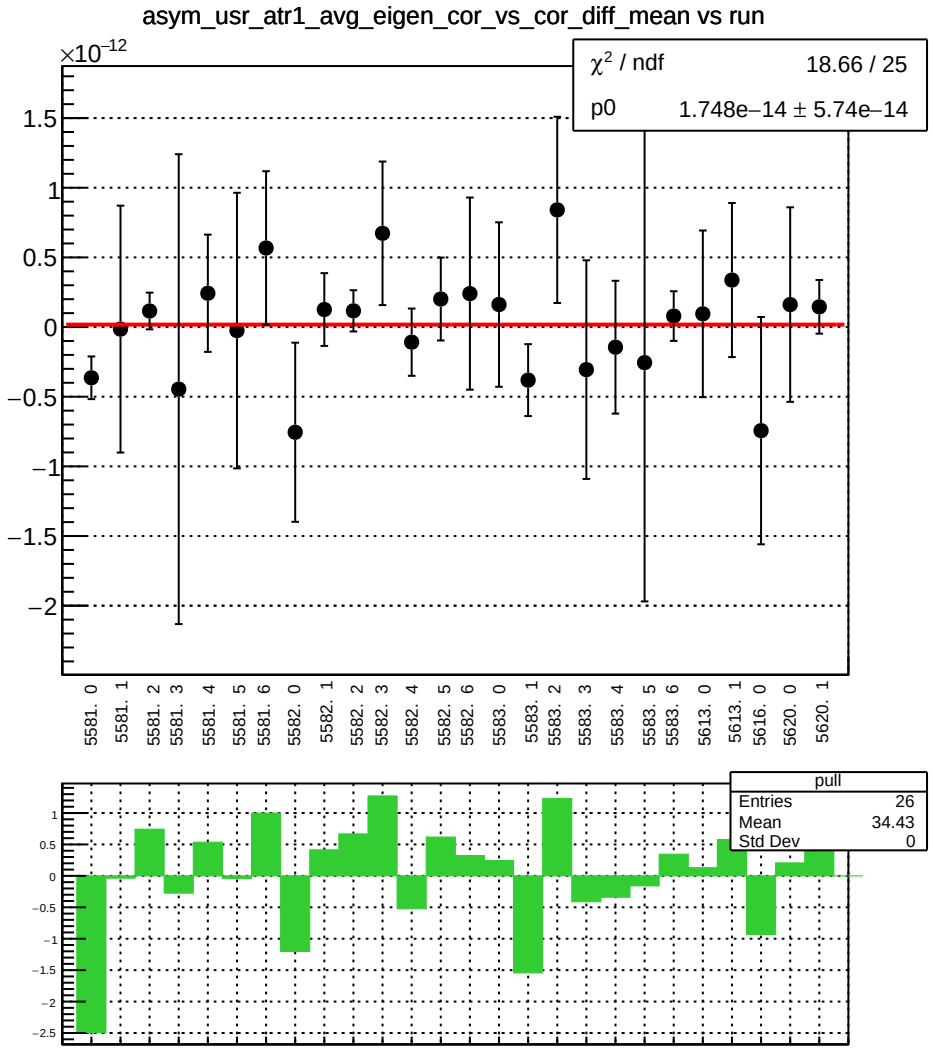

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.01e+05 / 32
p0 0.001342 ± 1.999e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

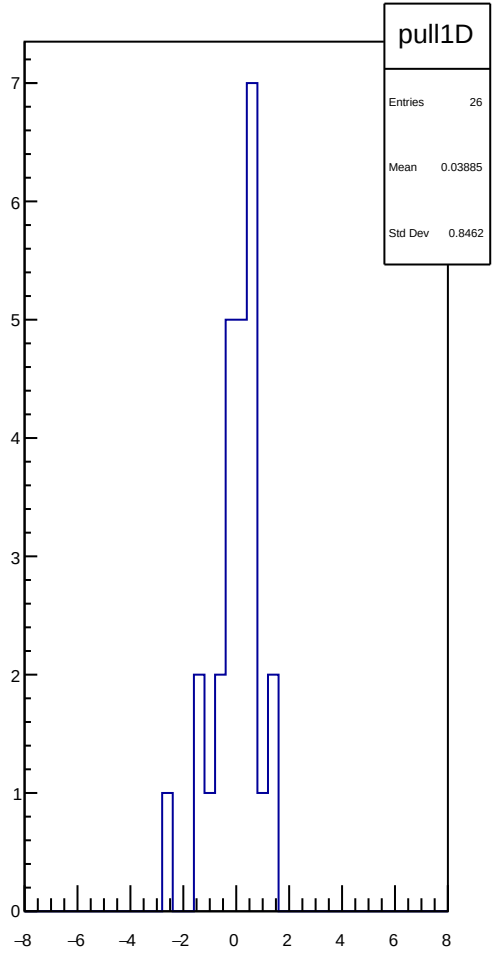

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.17 / 32
p0 0.0905 ± 0.0813
15
10
5
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.79
Std Dev 17.1
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.0794
Std Dev 0.904
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

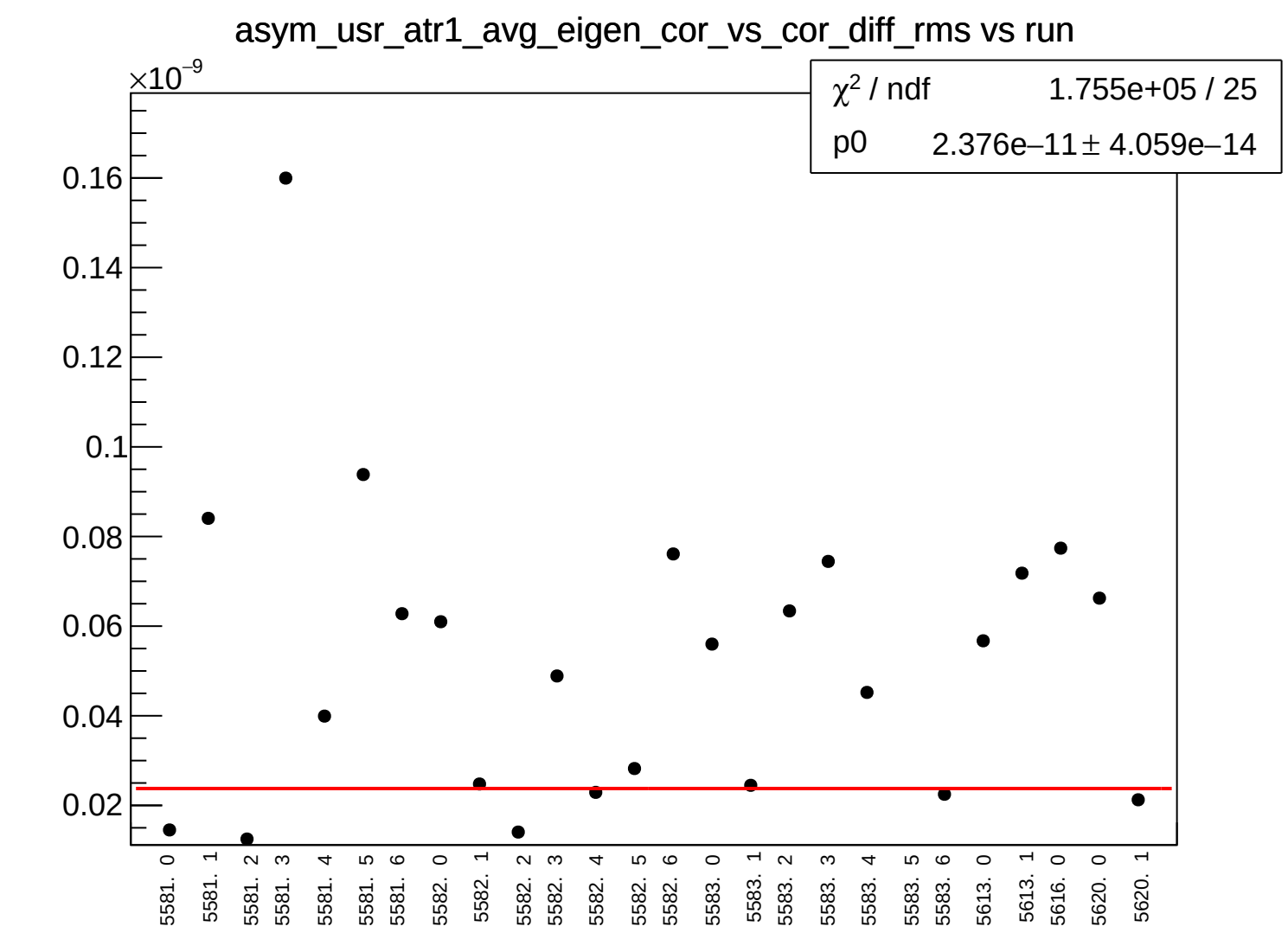

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.479e+05 / 32
p0 36.54 ± 0.05749
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

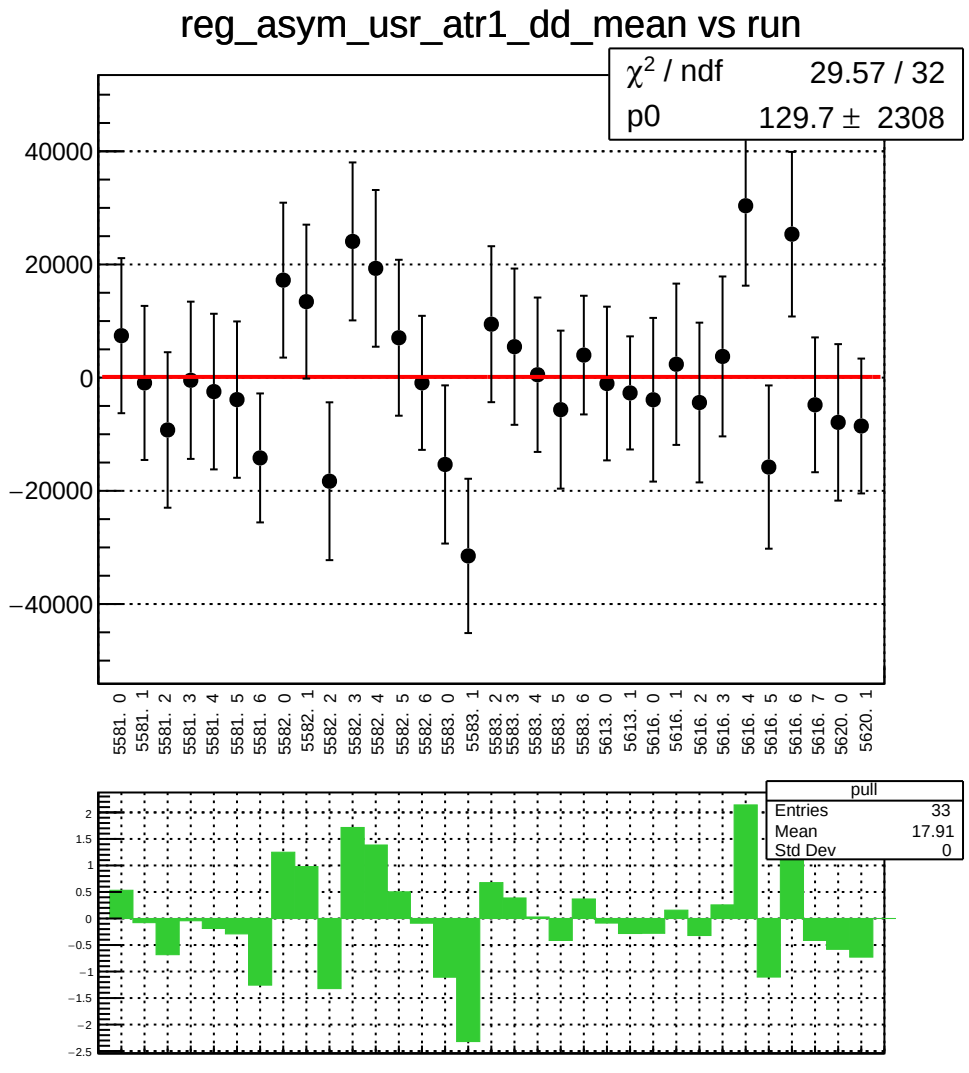

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.17 / 32
p0 0.0905 ± 0.0813
15
10
5
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.79
Std Dev 17.1
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.0794
Std Dev 0.904
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

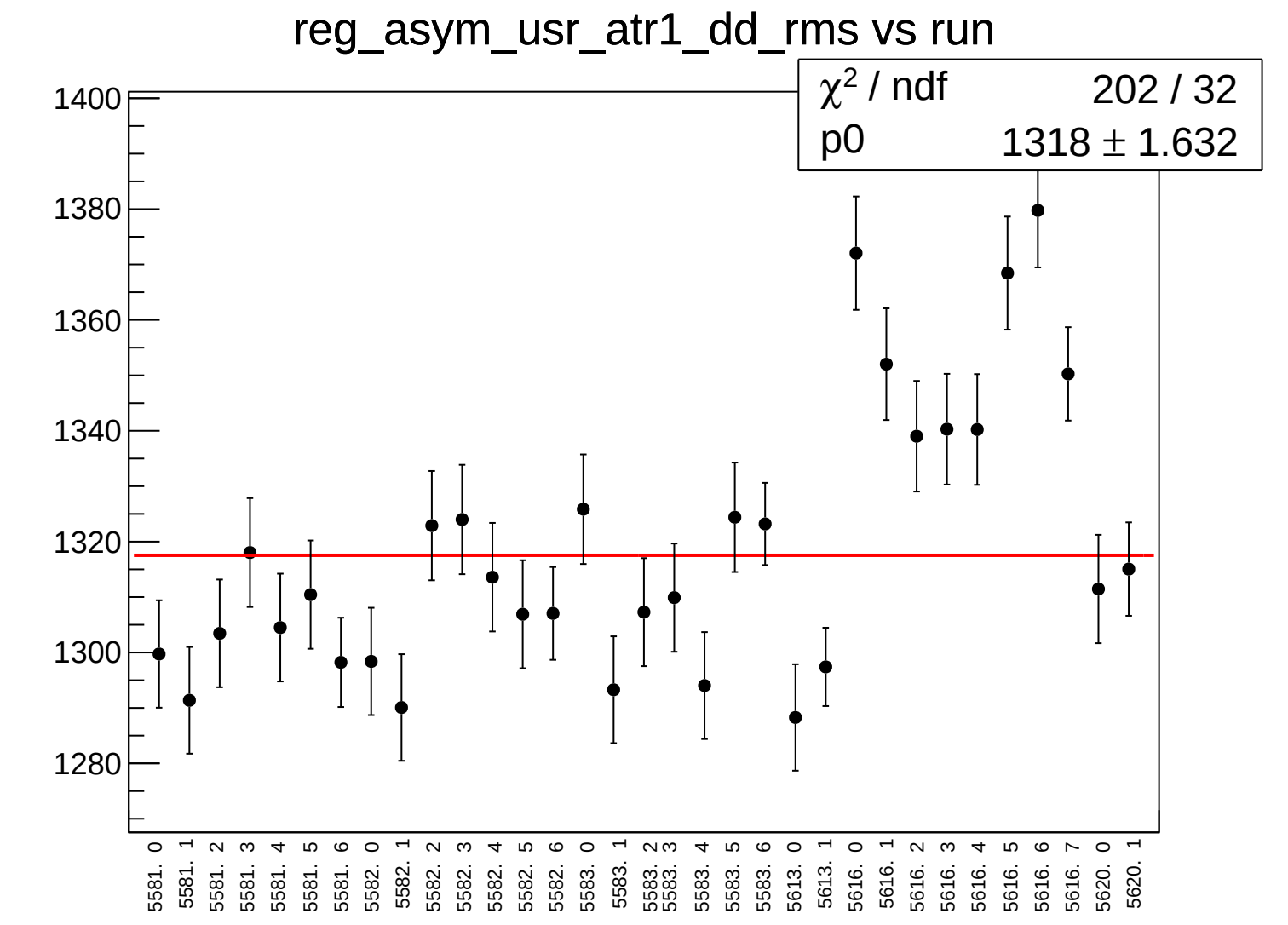

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.479e+05 / 32
p0 36.54 ± 0.05749
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

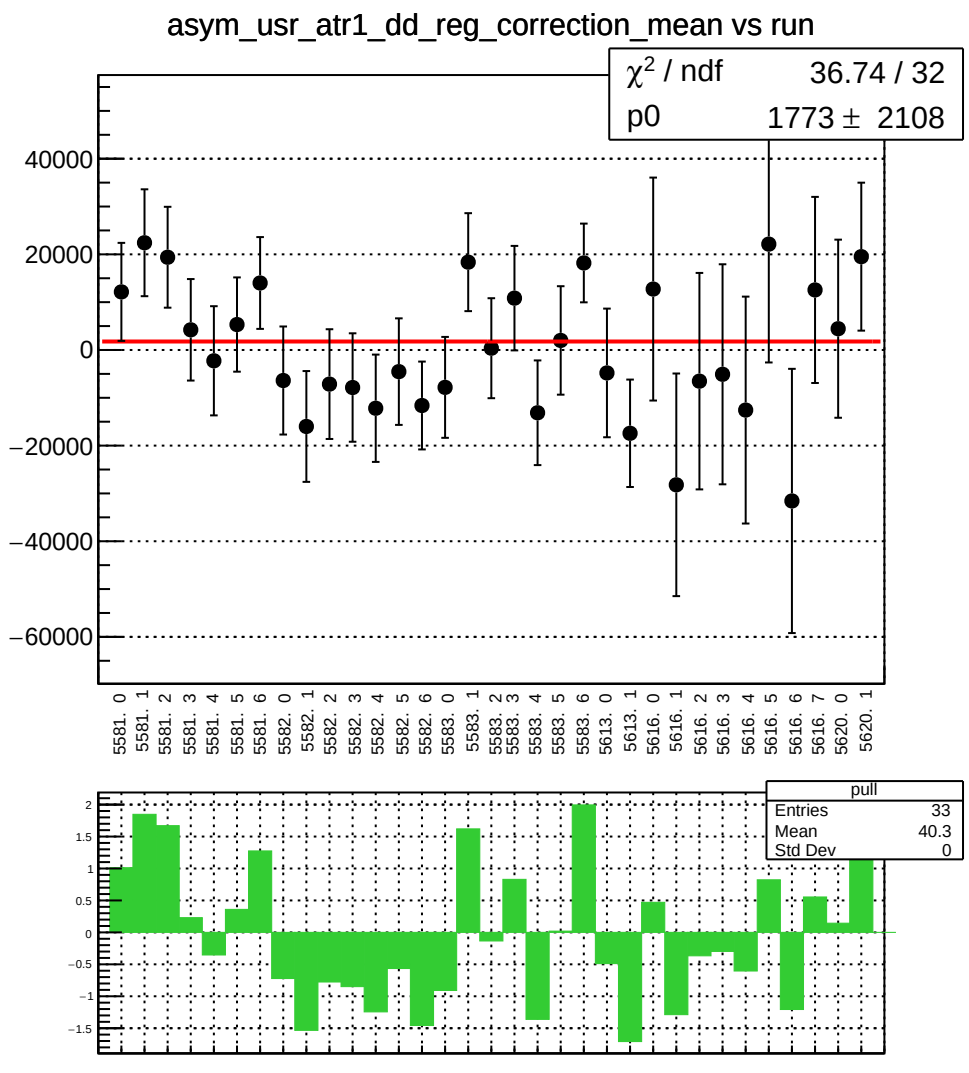

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 18.66 / 25
p0 1.748e−14 ± 5.74e−14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 34.43
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

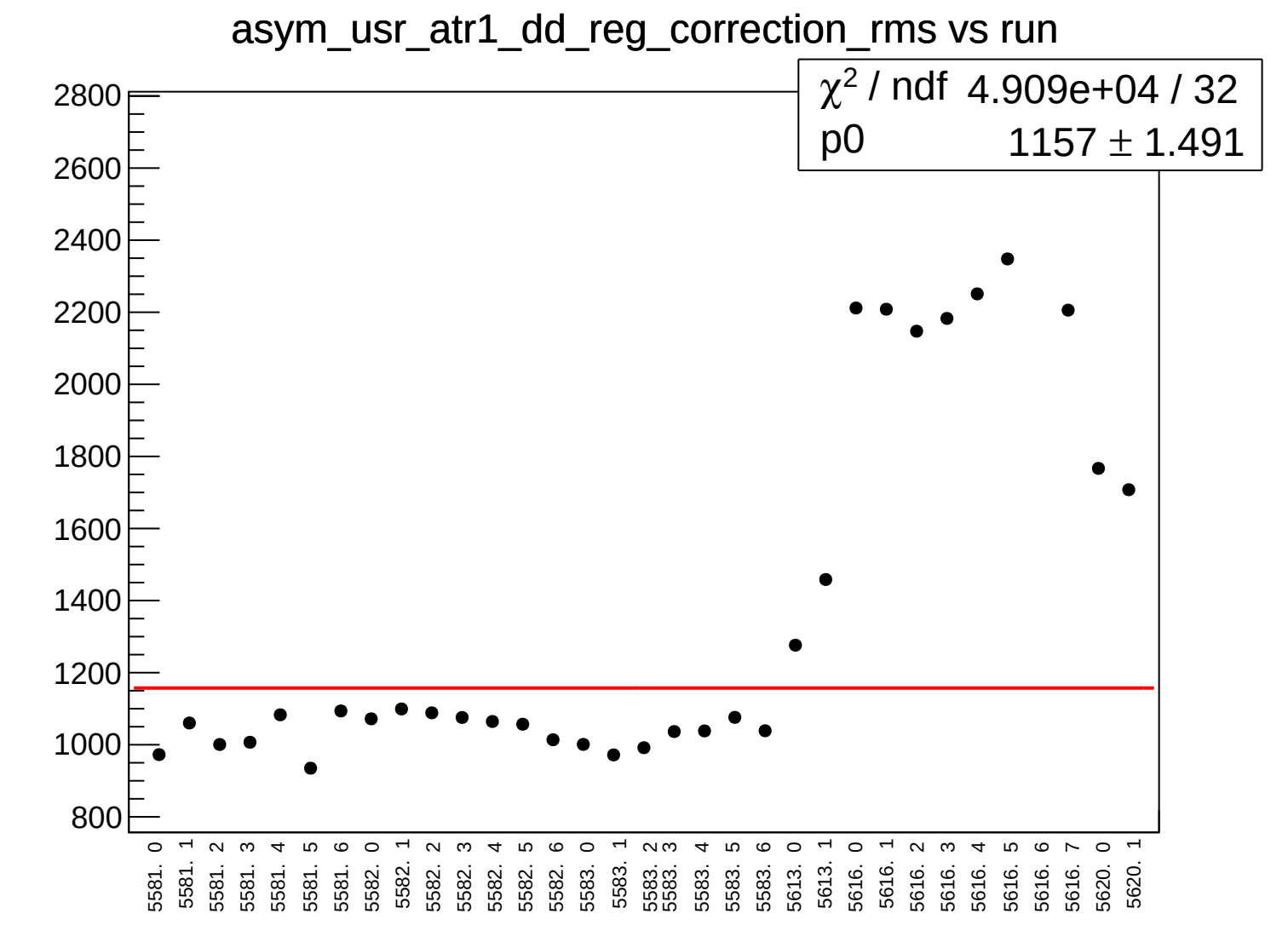

pull1D
Entries 26
Mean 0.03885
Std Dev 0.8462
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

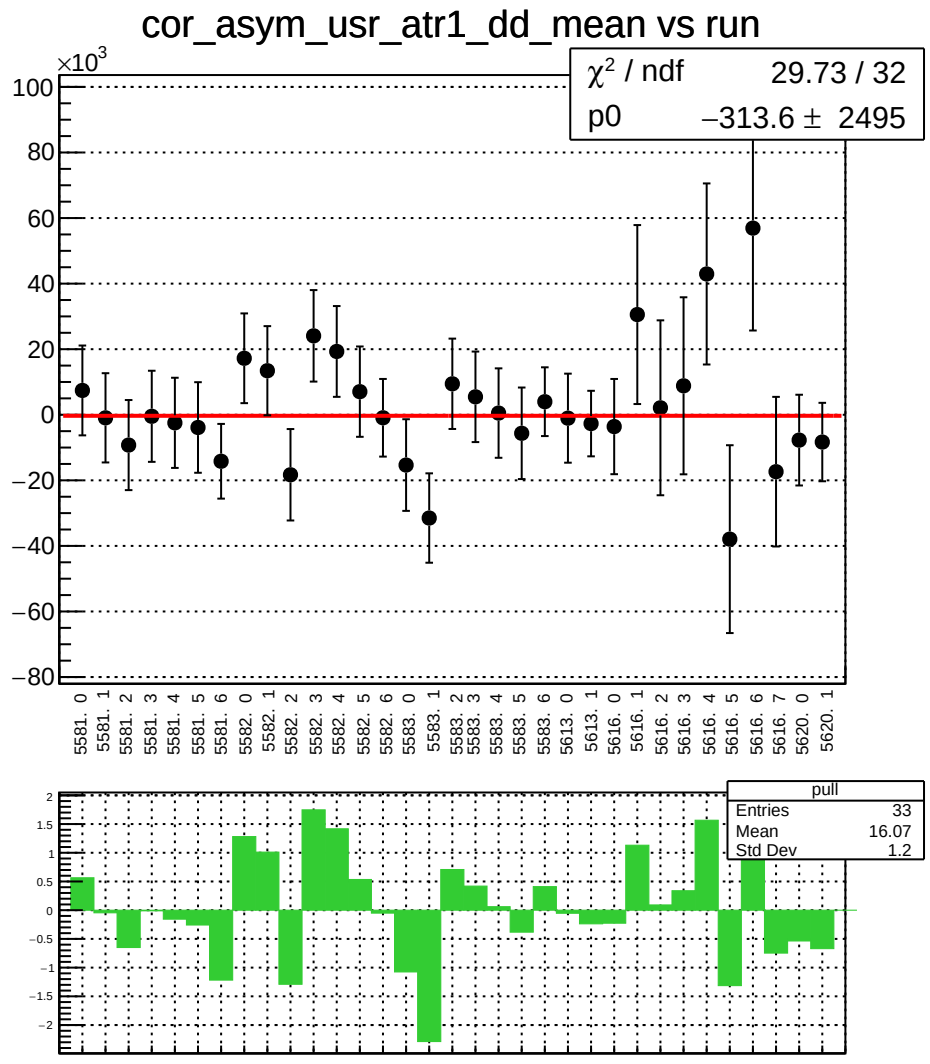

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.755e+05 / 25
p0 2.376e−11 ± 4.059e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

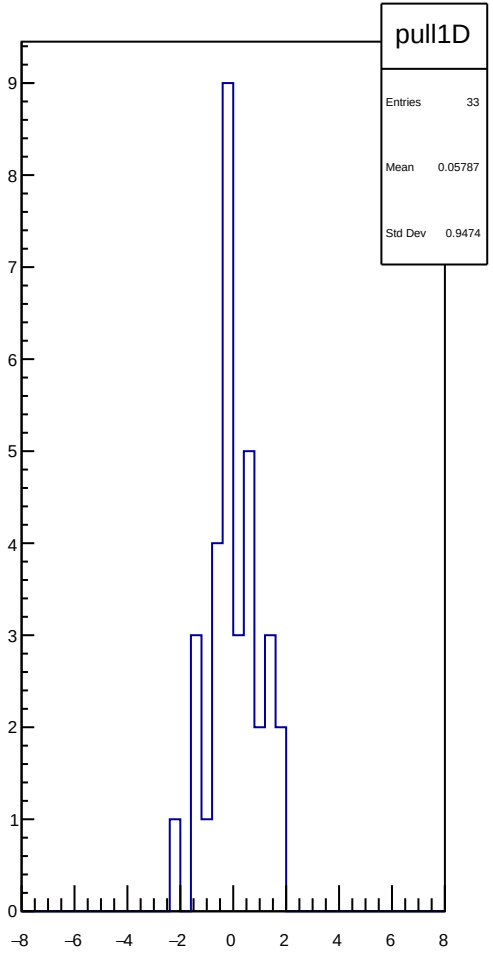

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 29.57 / 32
p0 129.7 ± 2308
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.01598
Std Dev 0.9465
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

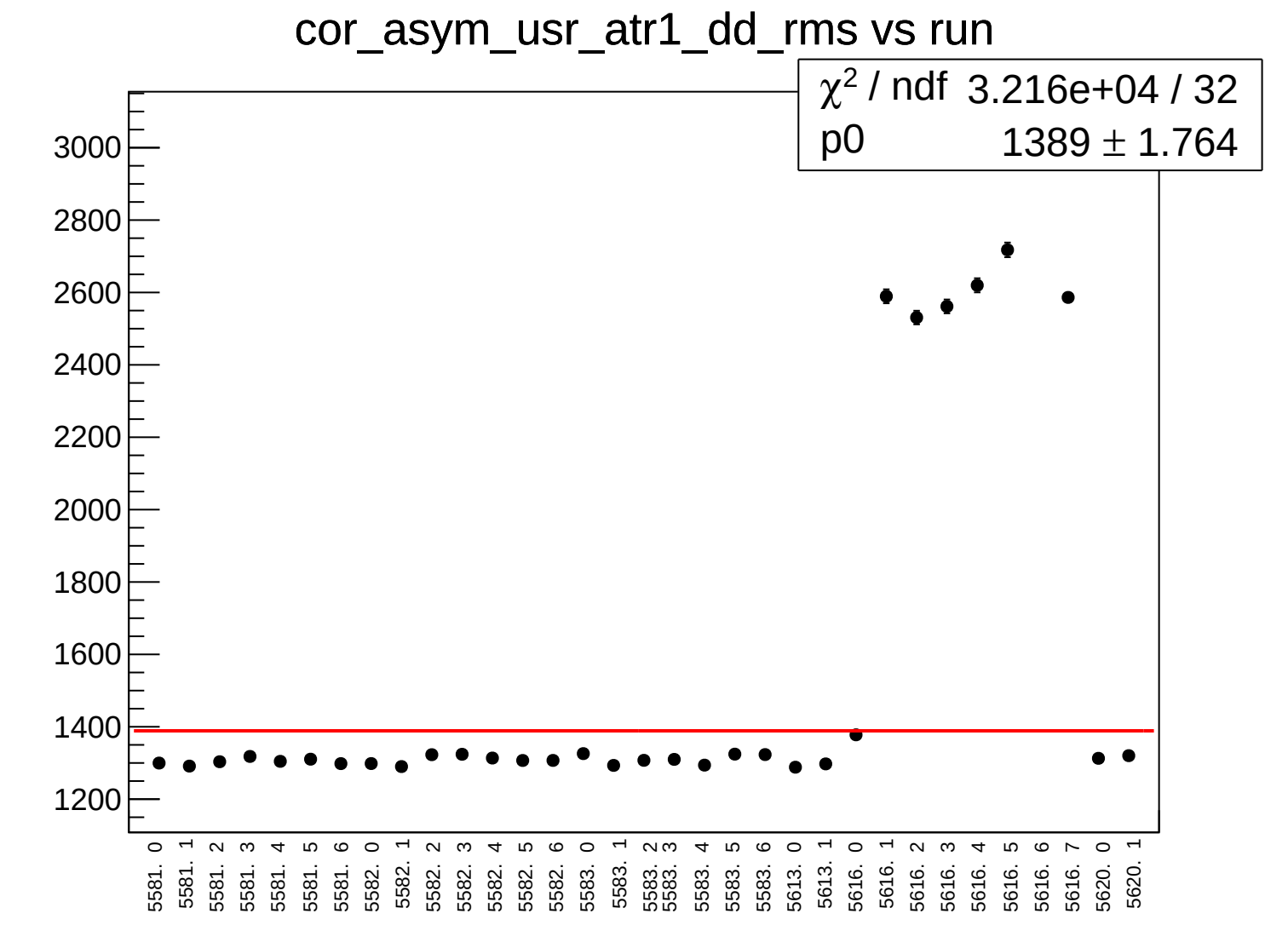

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 202 / 32
p0 1318 ± 1.632
1400
1380
1360
1340
1320
1300
1280
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

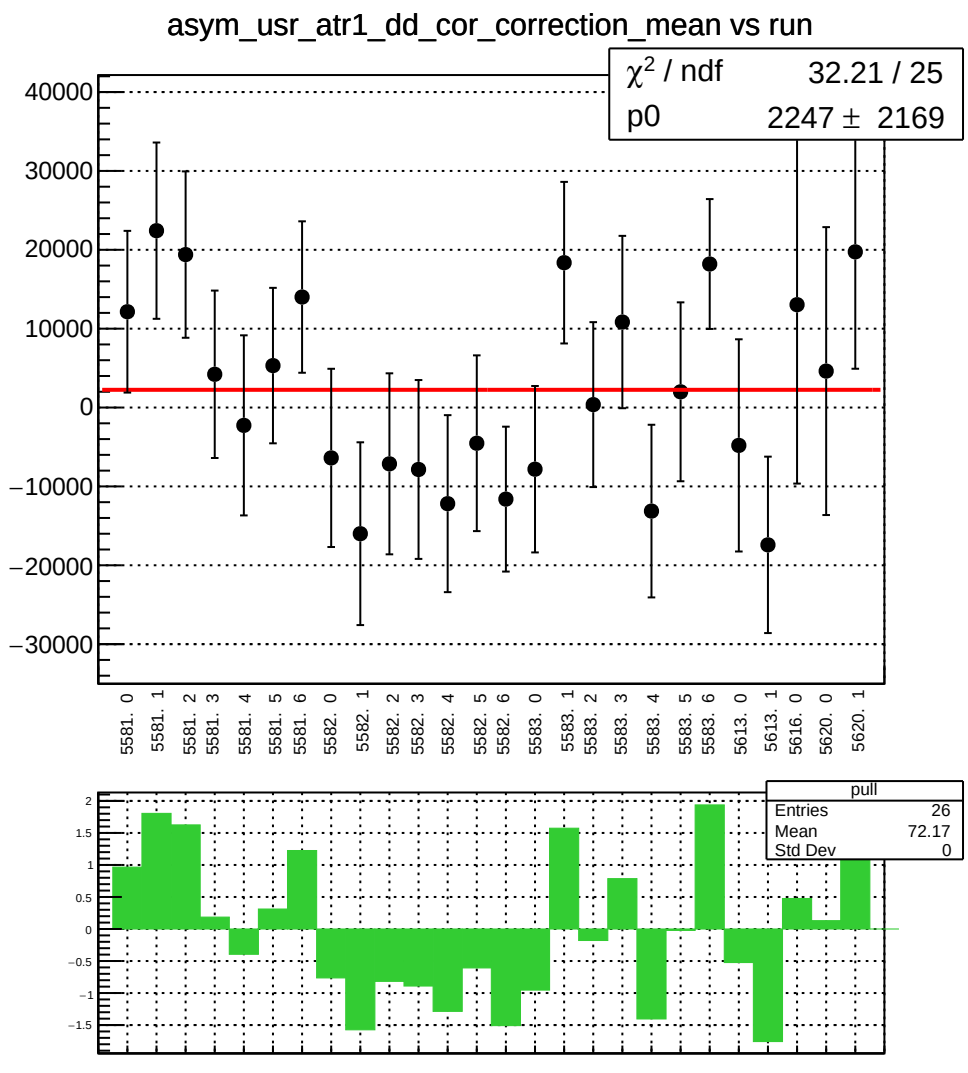

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 36.74 / 32
p0 1773 ± 2108
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.0566
Std Dev 1.054
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

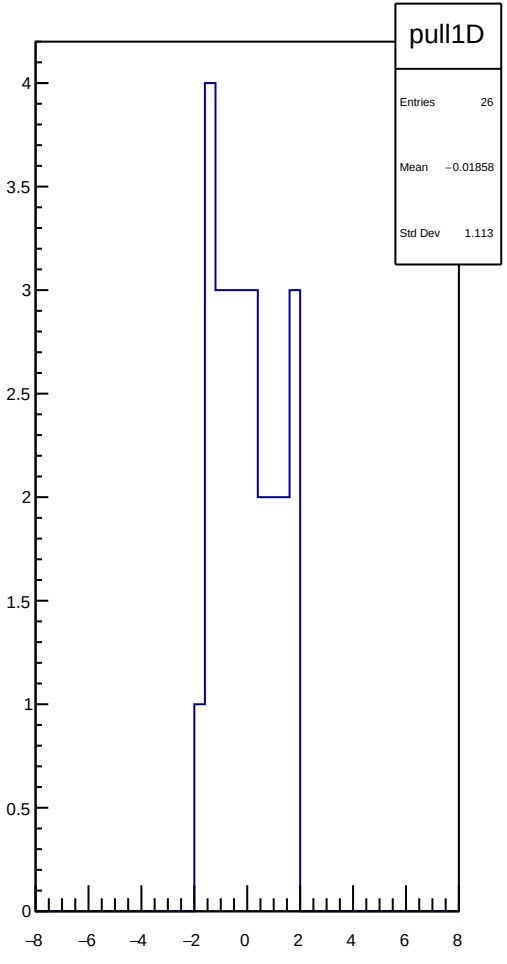

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 4.909e+04 / 32
p0 1157 ± 1.491
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

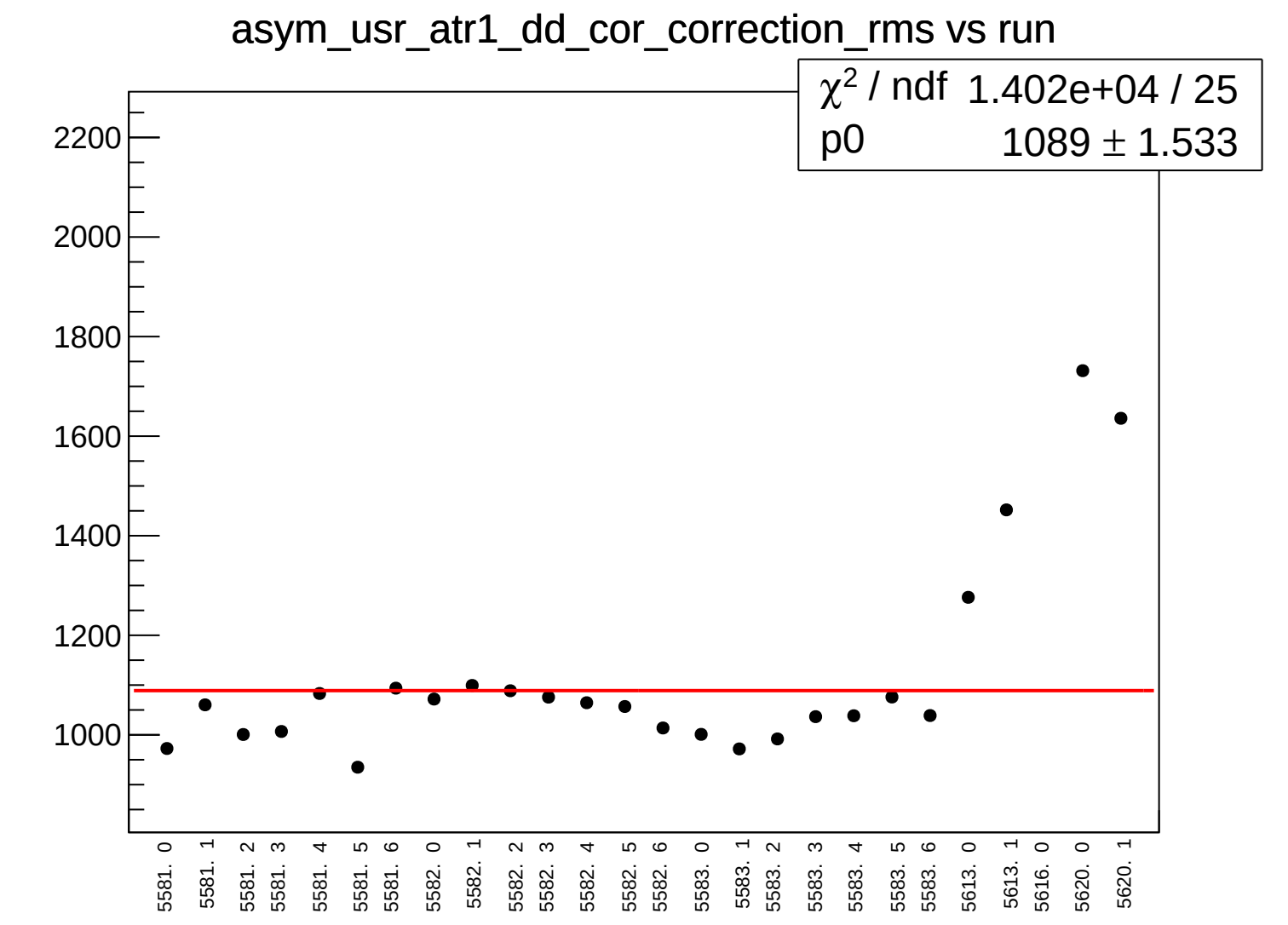

cor_asym_usr_atr1_dd_mean vs run
×10^3
χ² / ndf 29.73 / 32
p0 −313.6 ± 2495
pull
Entries 33
Mean 16.07
Std Dev 1.2

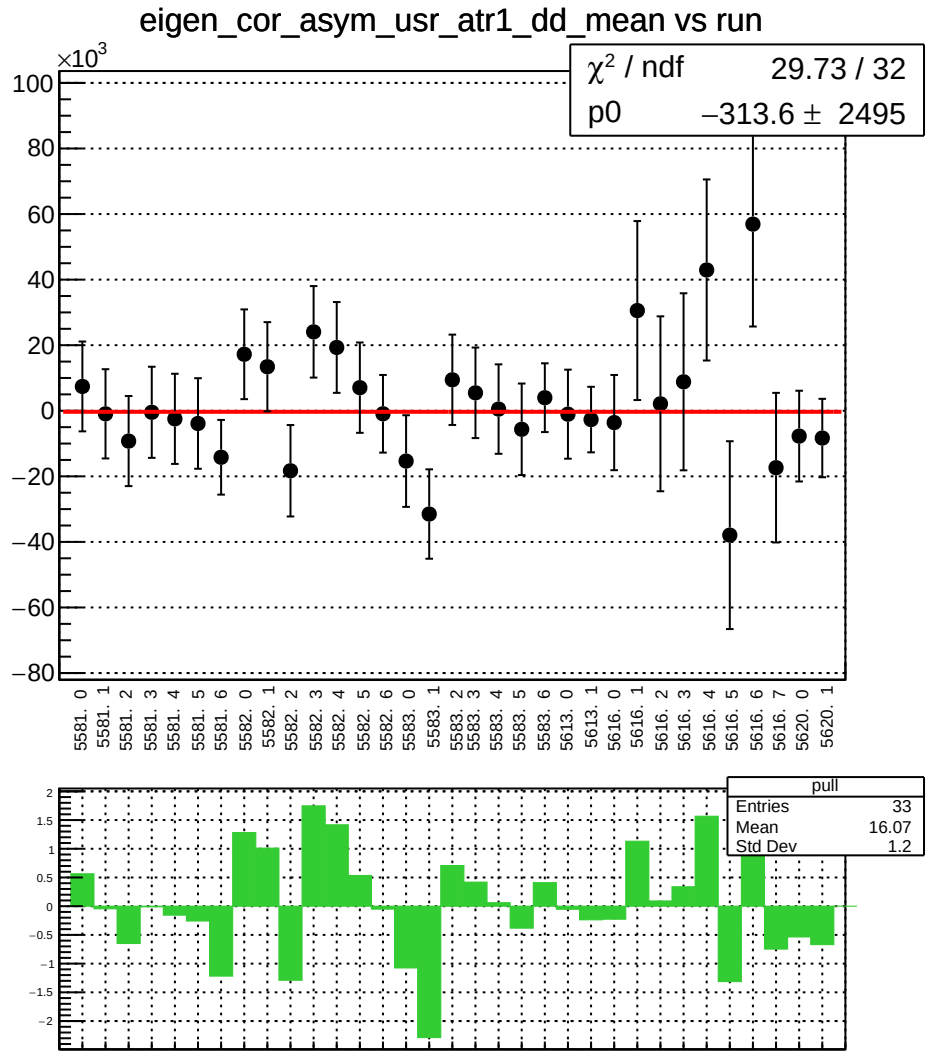

pull1D
Entries 33
Mean 0.05787
Std Dev 0.9474

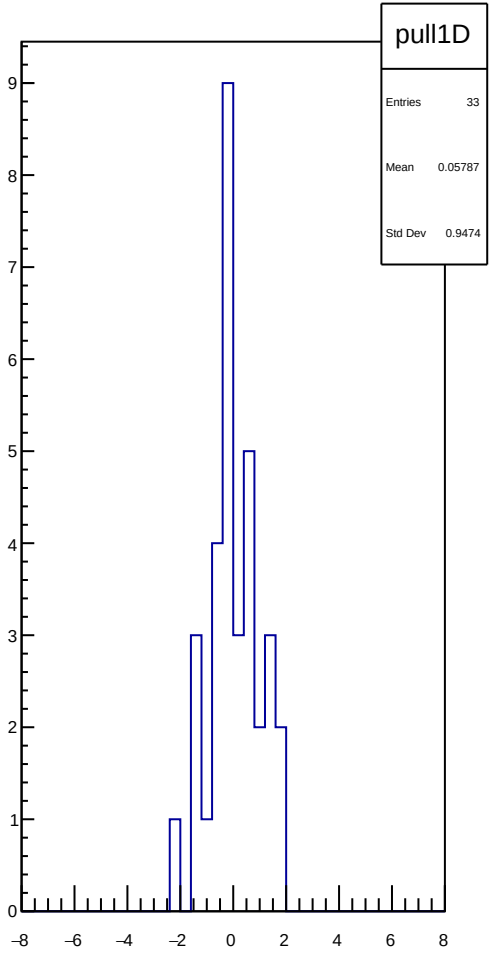

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 3.216e+04 / 32
p0 1389 ± 1.764
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

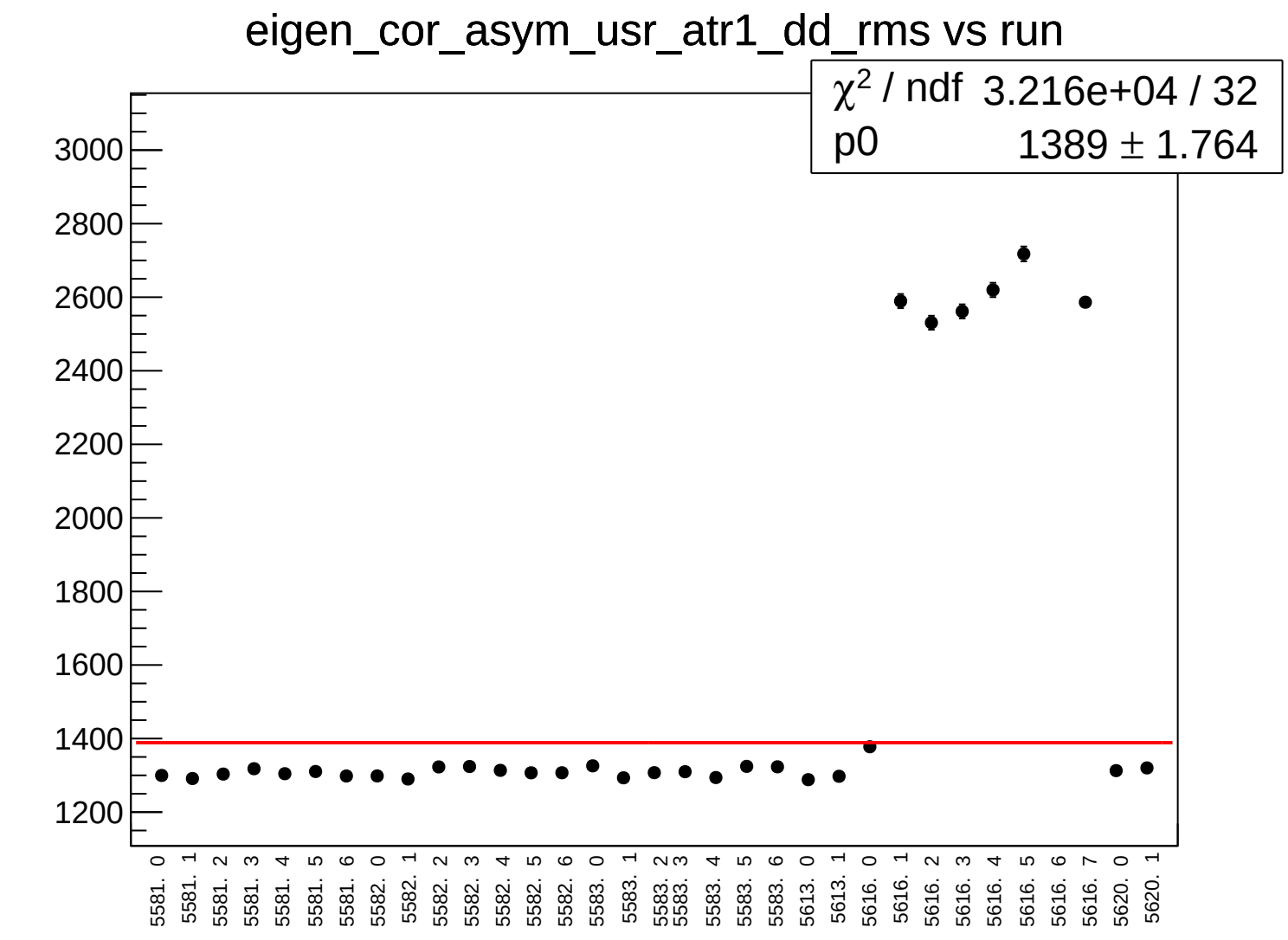

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 32.21 / 25
p0 2247 ± 2169
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 72.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

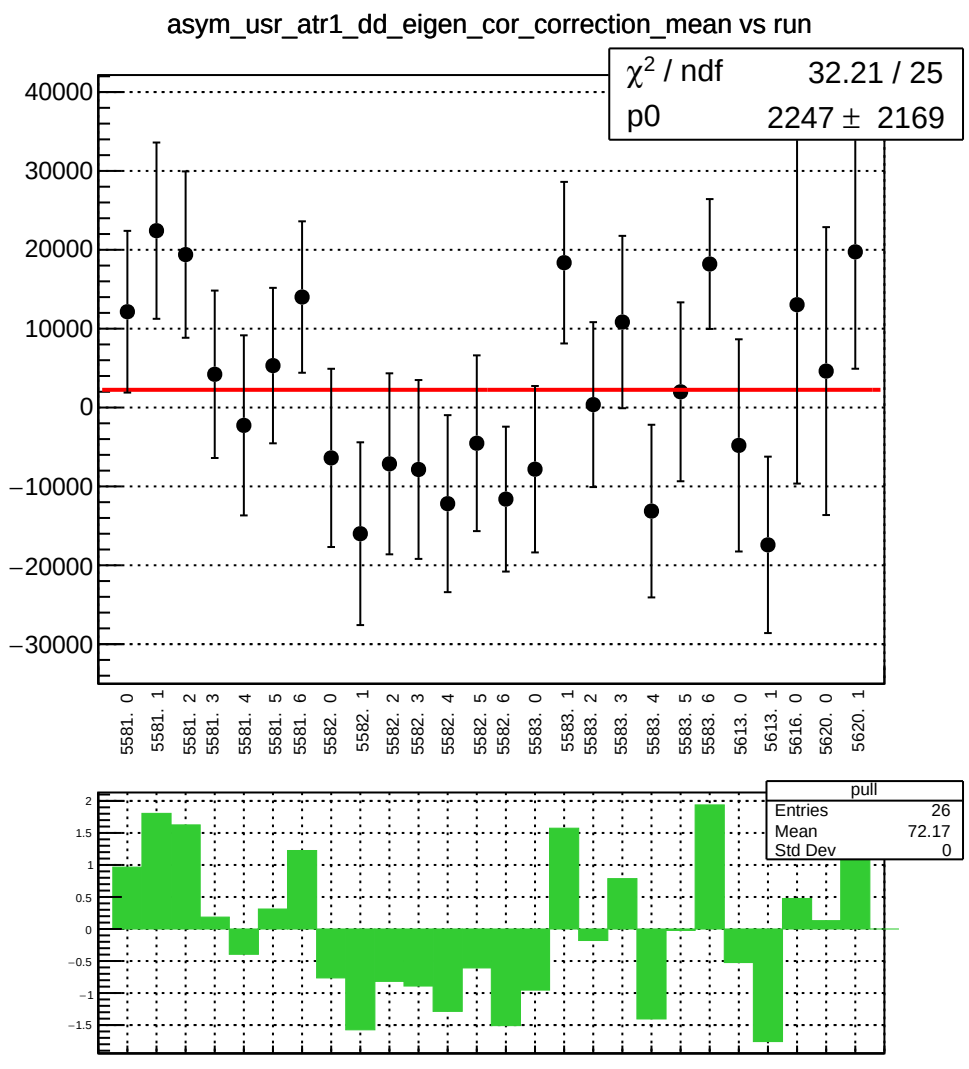

pull1D
Entries 26
Mean −0.01858
Std Dev 1.113
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

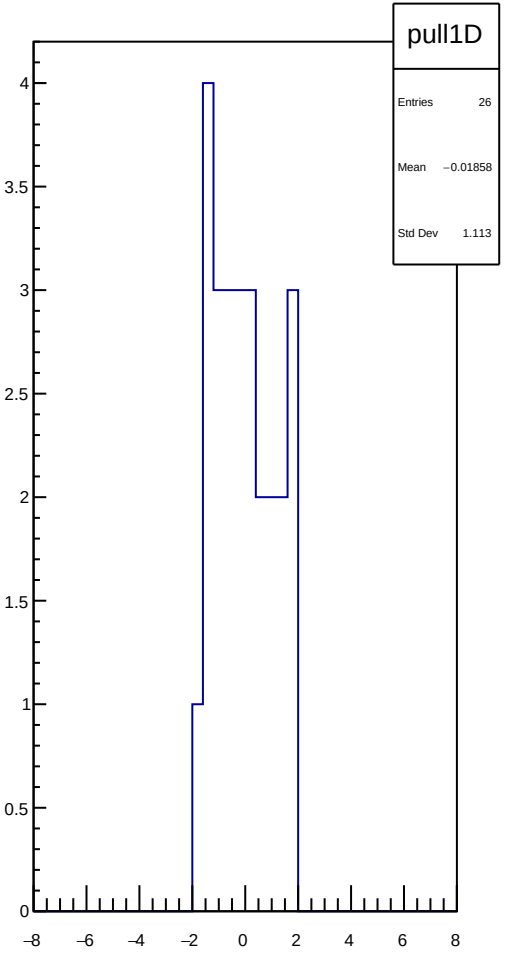

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.402e+04 / 25
p0 1089 ± 1.533
2200
2000
1800
1600
1400
1200
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

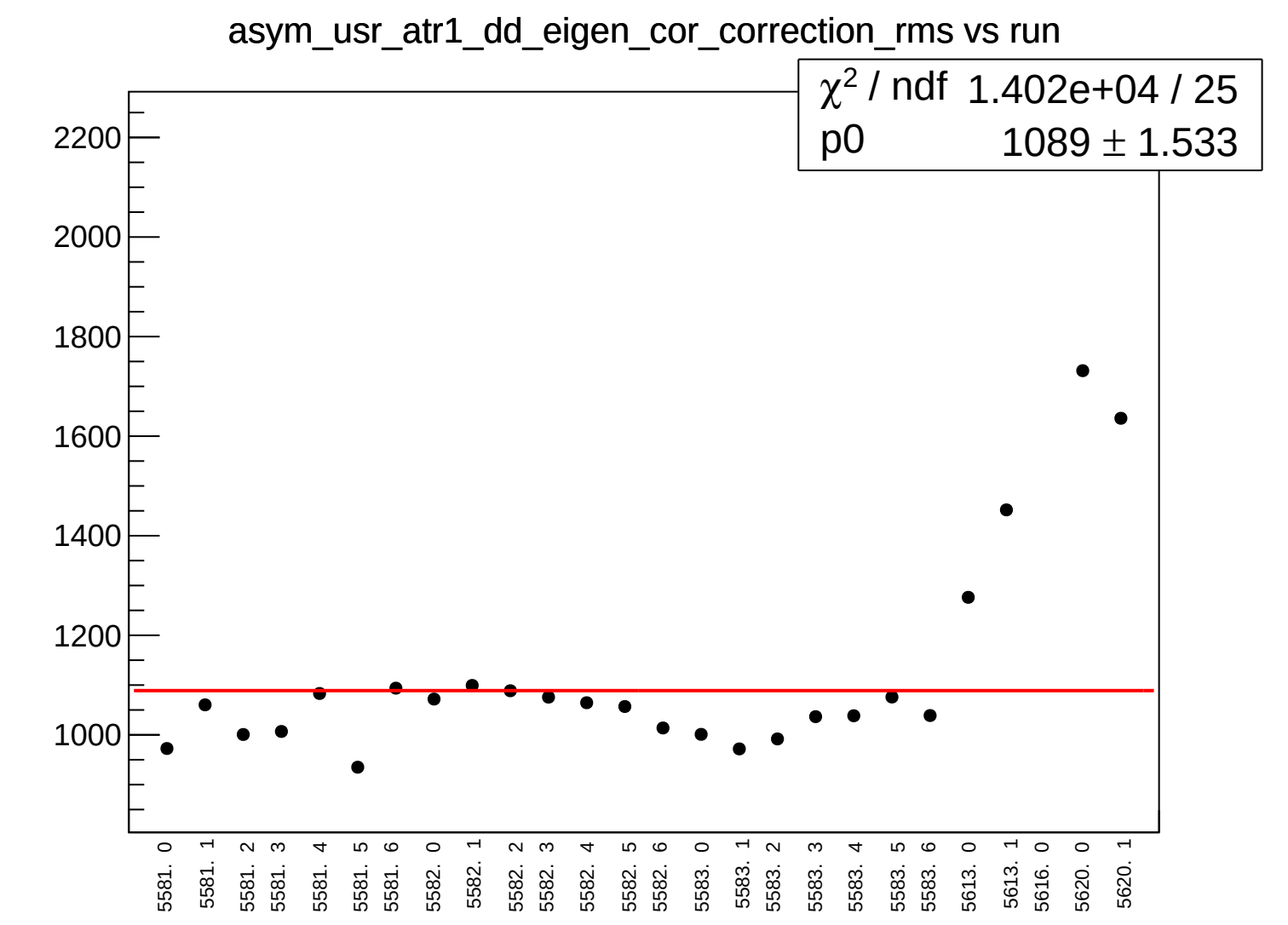

eigen_cor_asym_usr_atr1_dd_mean vs run
×10^3
χ² / ndf 29.73 / 32
p0 −313.6 ± 2495
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.07
Std Dev 1.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

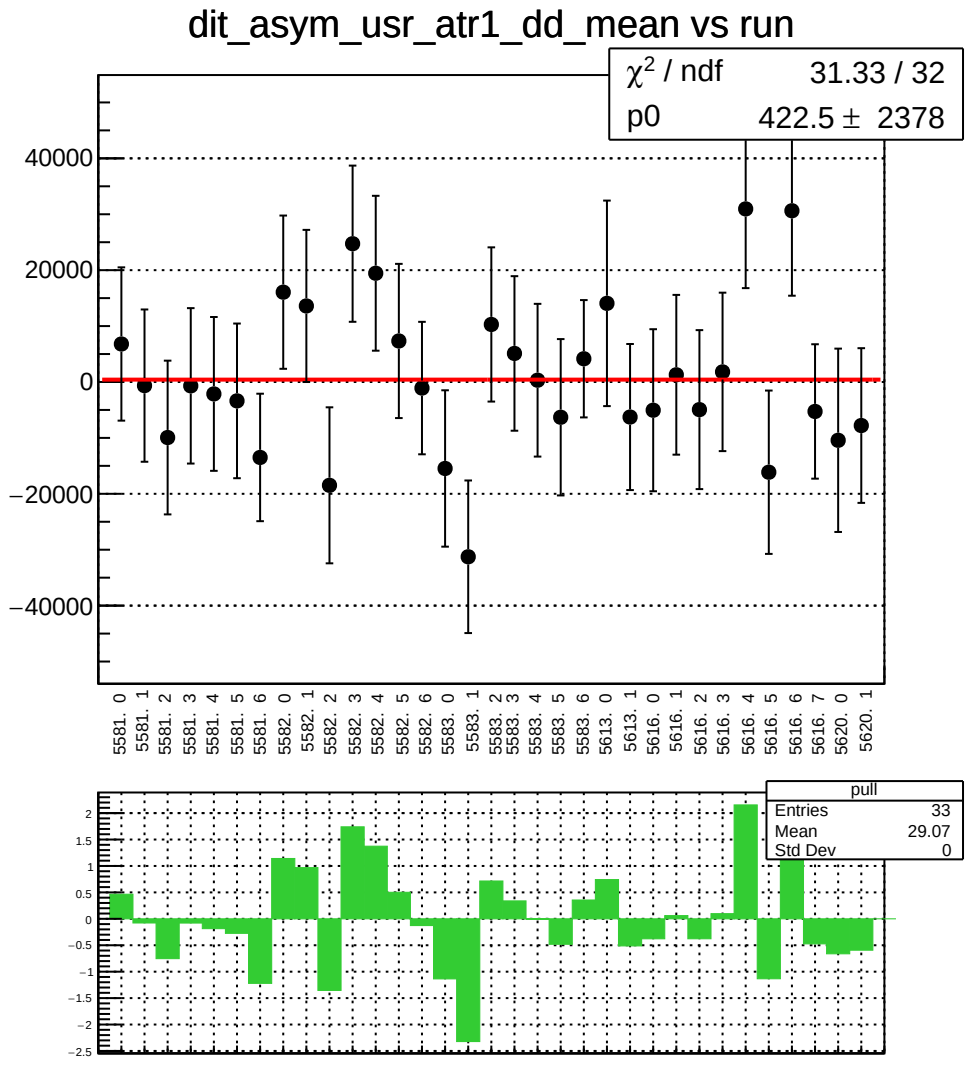

pull1D
Entries 33
Mean 0.05787
Std Dev 0.9474
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

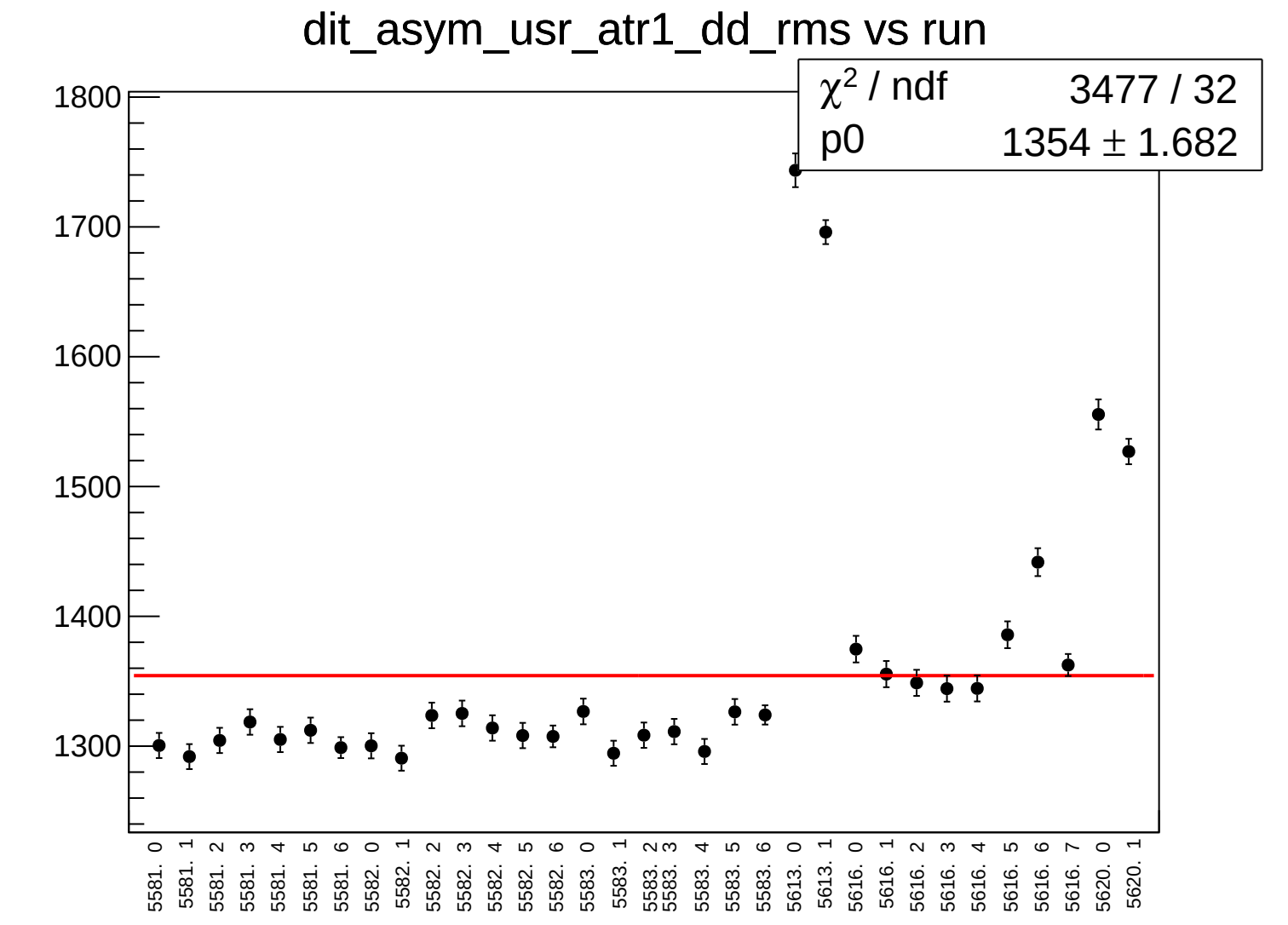

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 3.216e+04 / 32
p0 1389 ± 1.764
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

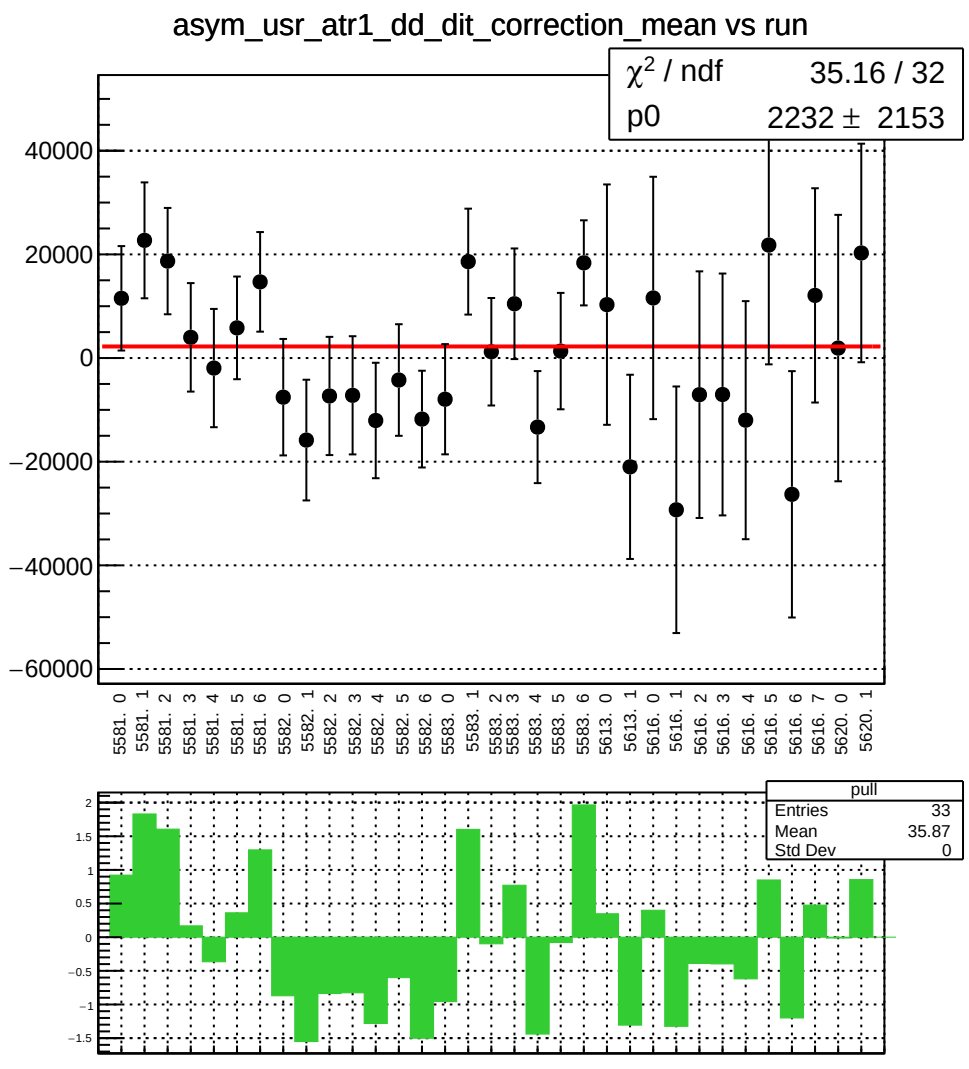

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 32.21 / 25
p0 2247 ± 2169
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 72.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

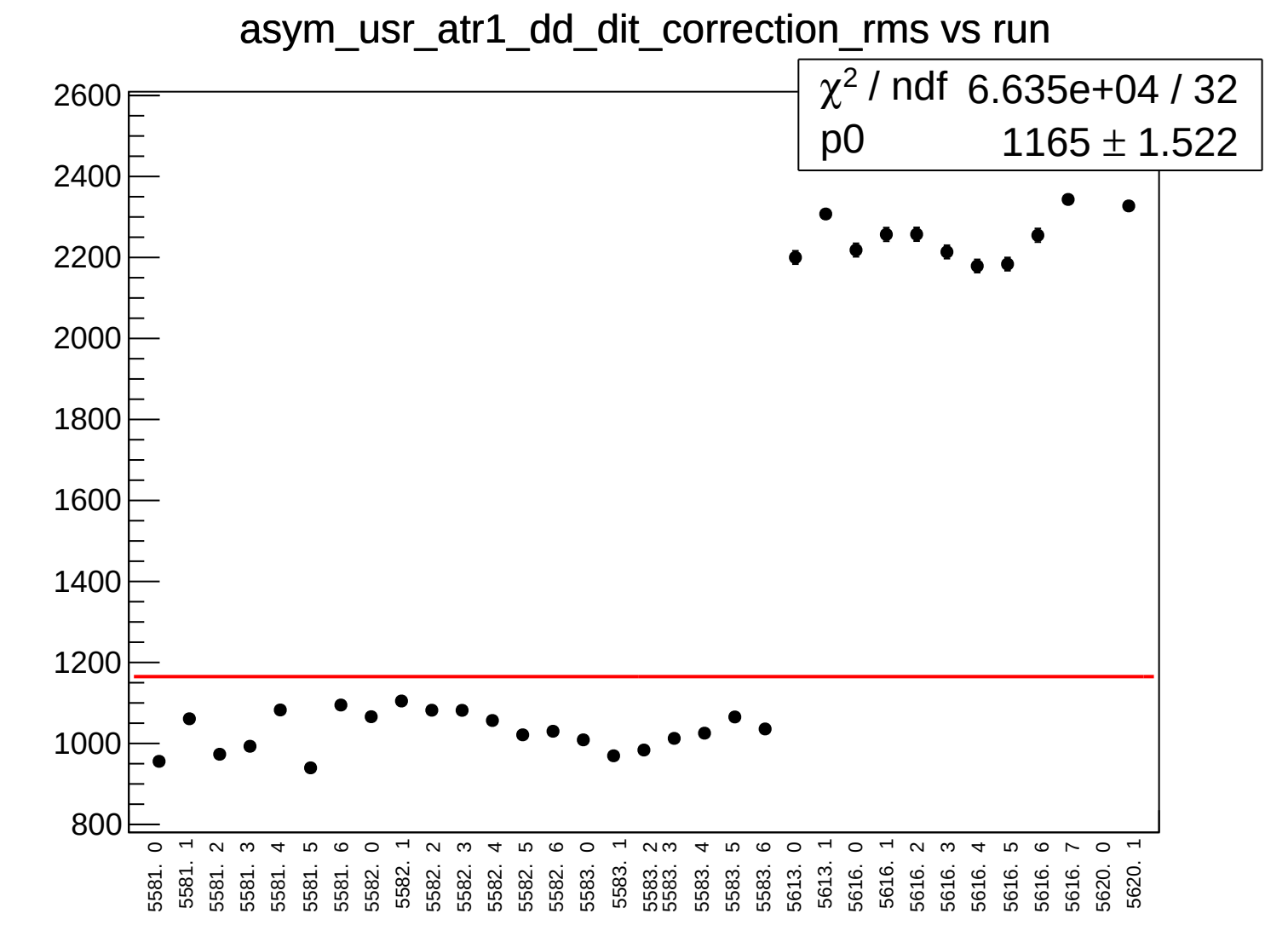

pull1D
Entries 26
Mean −0.01858
Std Dev 1.113
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

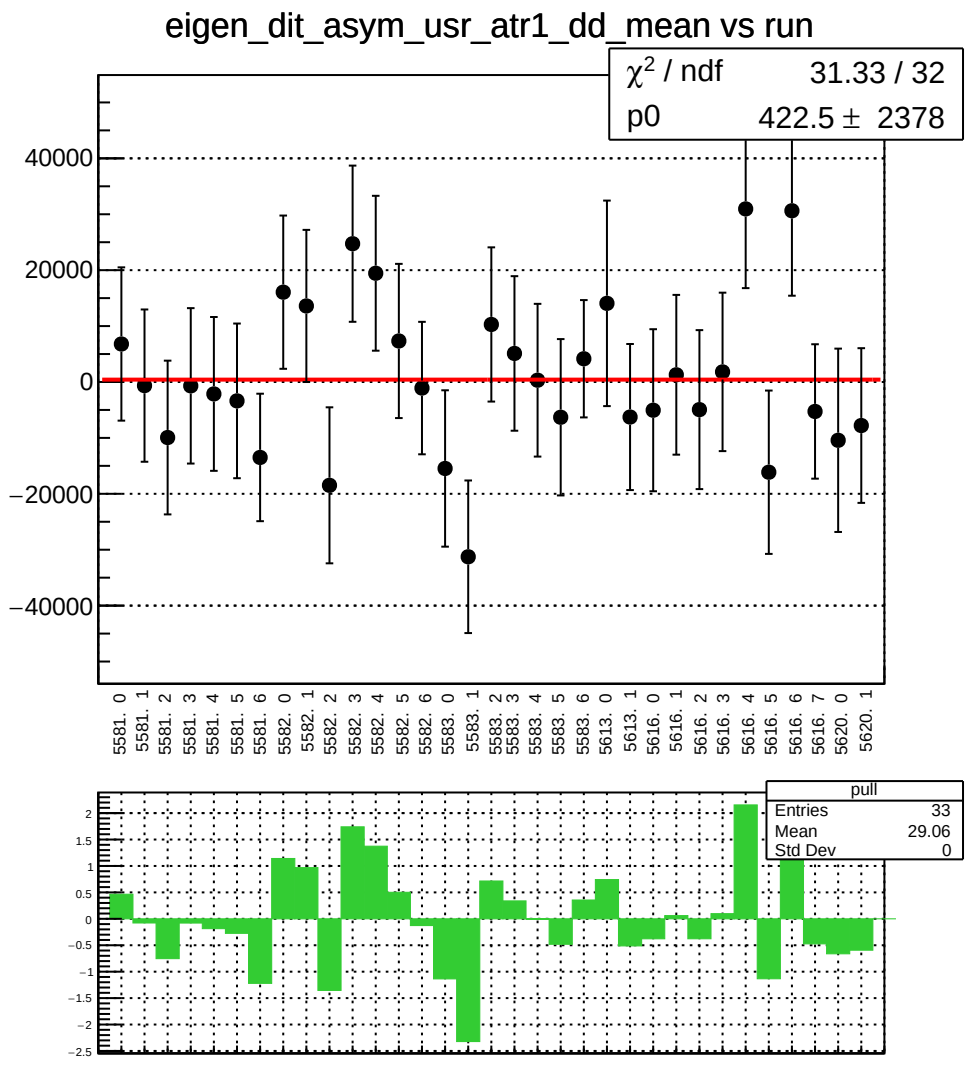

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.402e+04 / 25
p0 1089 ± 1.533
2200
2000
1800
1600
1400
1200
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

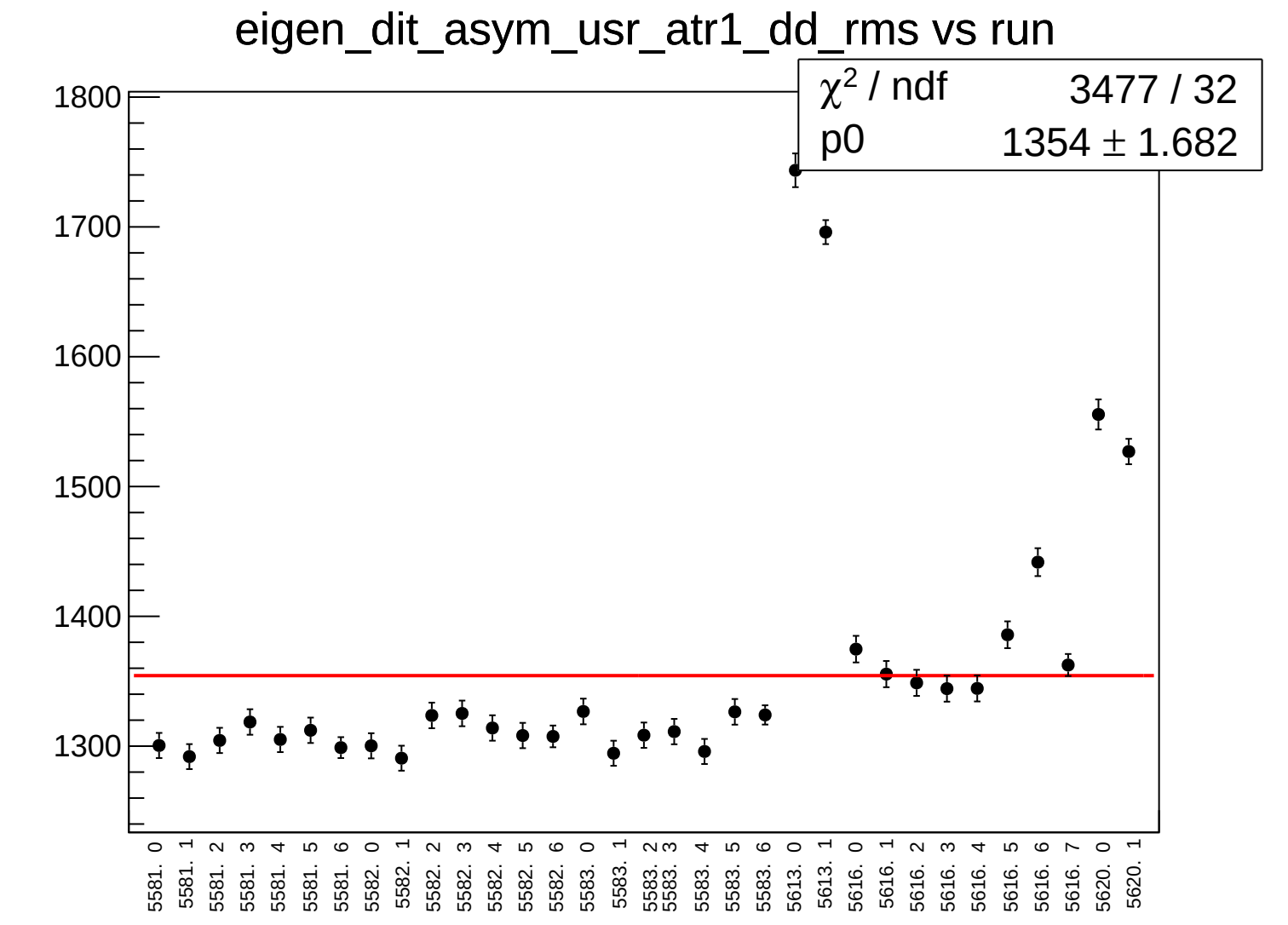

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 31.33 / 32
p0 422.5 ± 2378
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.01486
Std Dev 0.9743
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

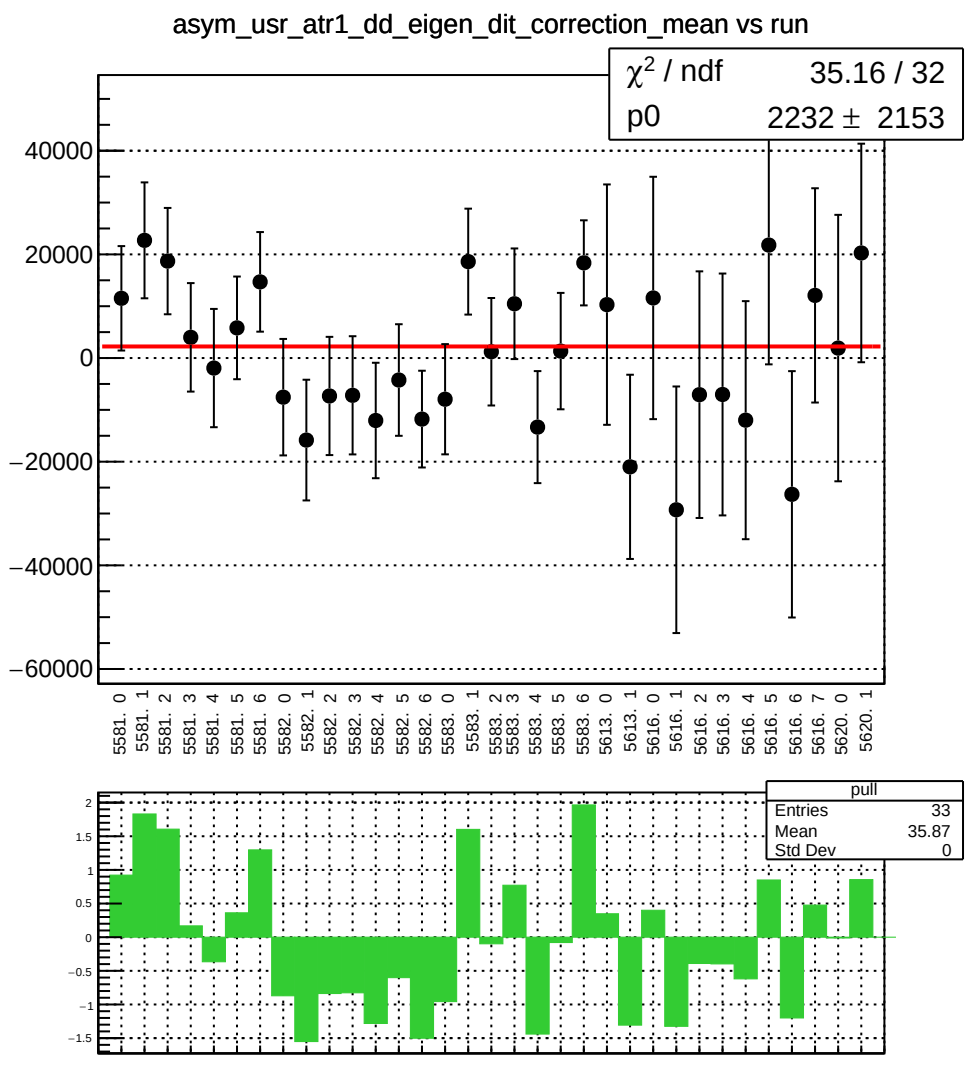

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 3477 / 32
p0 1354 ± 1.682
1800
1700
1600
1500
1400
1300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

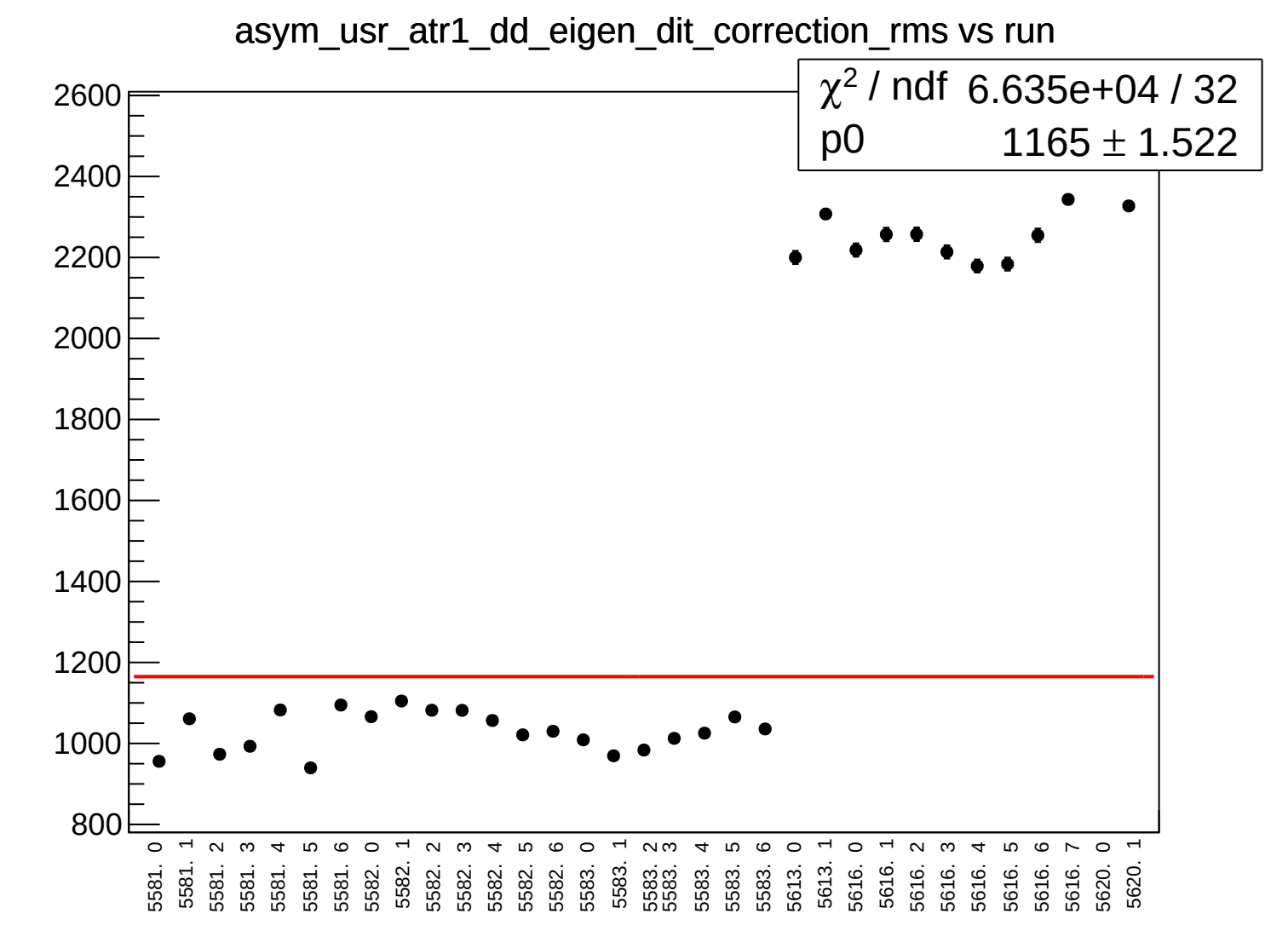

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 35.16 / 32
p0 2232 ± 2153
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.06675
Std Dev 1.03
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

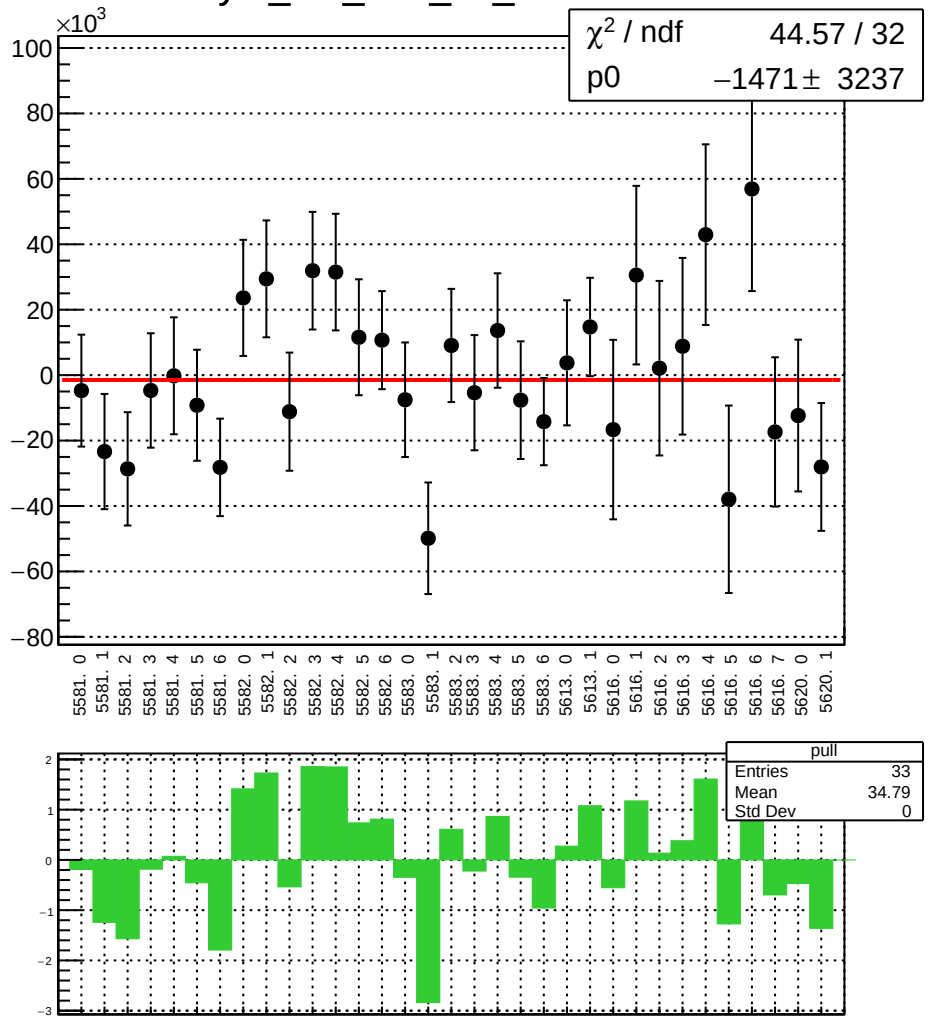

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 6.635e+04 / 32
p0 1165 ± 1.522
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

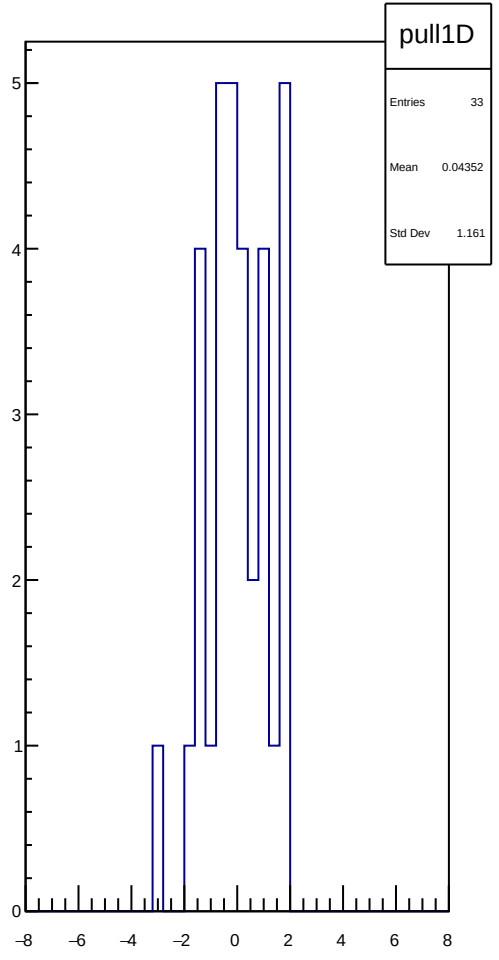

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 31.33 / 32
p0 422.5 ± 2378
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.01486
Std Dev 0.9743
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

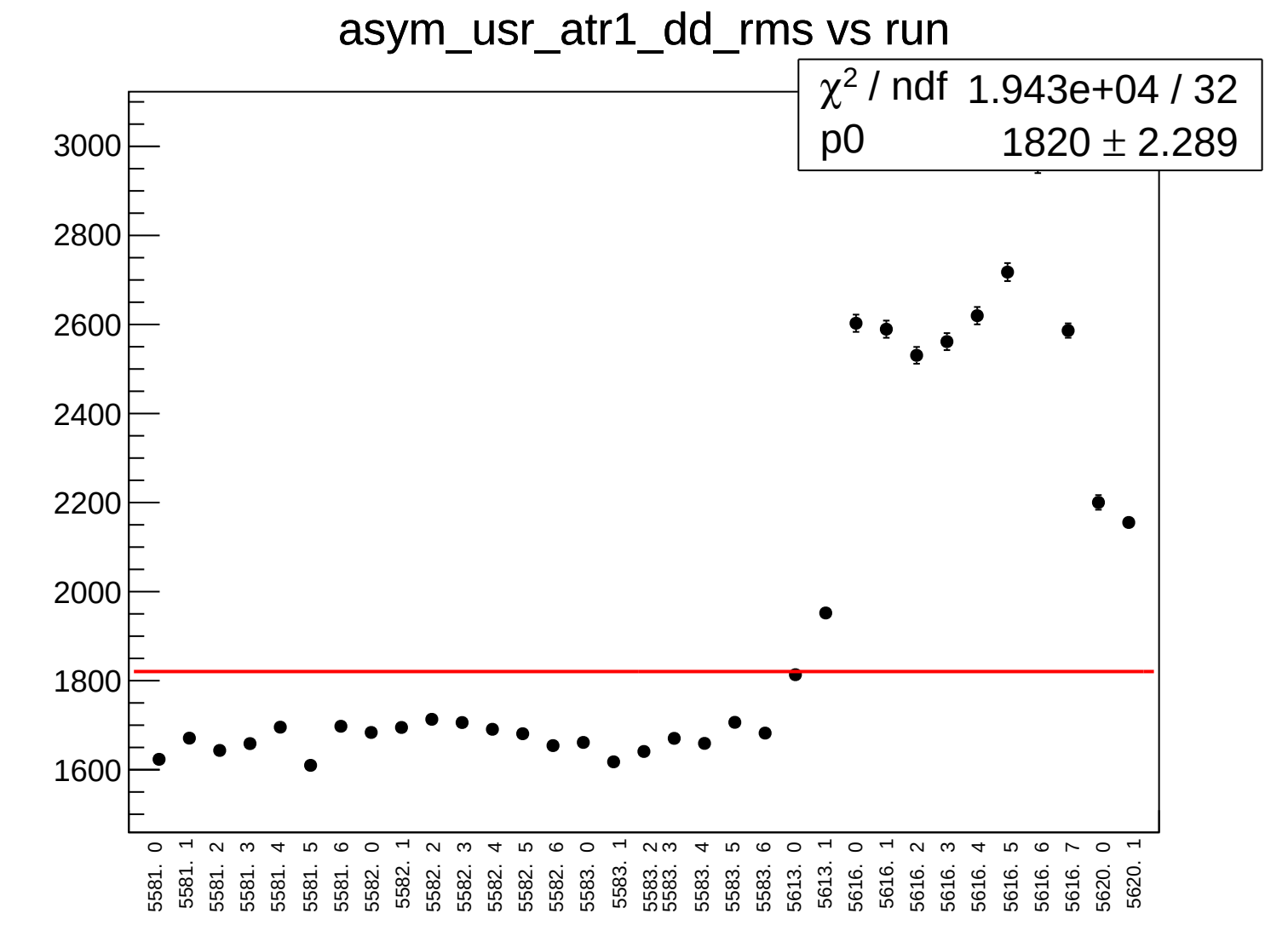

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 3477 / 32
p0 1354 ± 1.682
1800
1700
1600
1500
1400
1300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

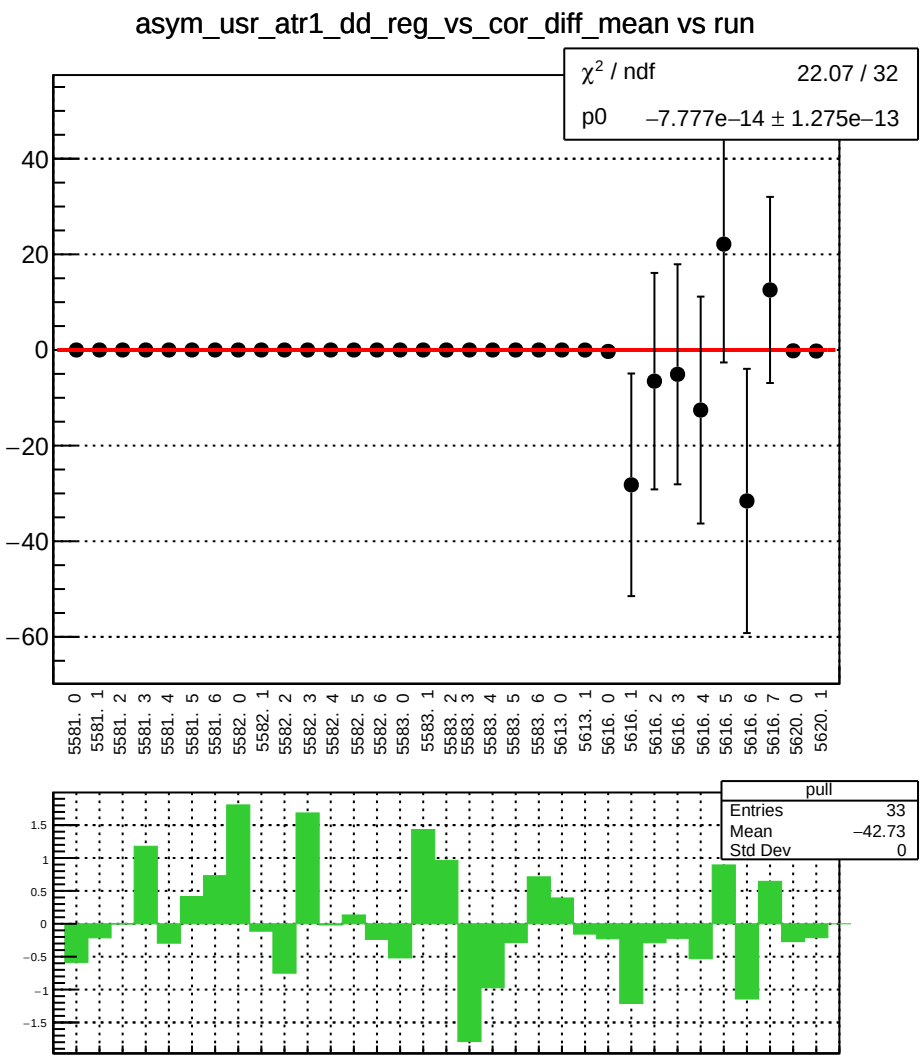

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 35.16 / 32
p0 2232 ± 2153
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.06675
Std Dev 1.03
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

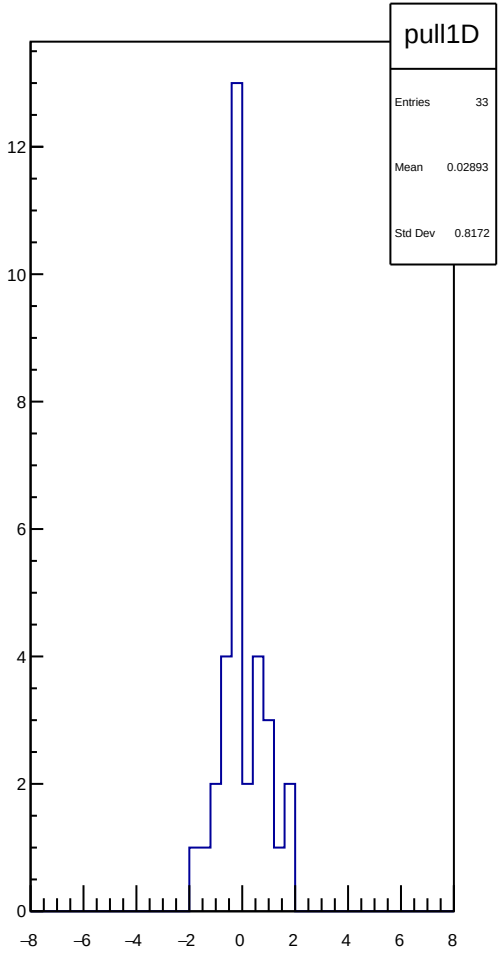

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.635e+04 / 32
p0 1165 ± 1.522
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

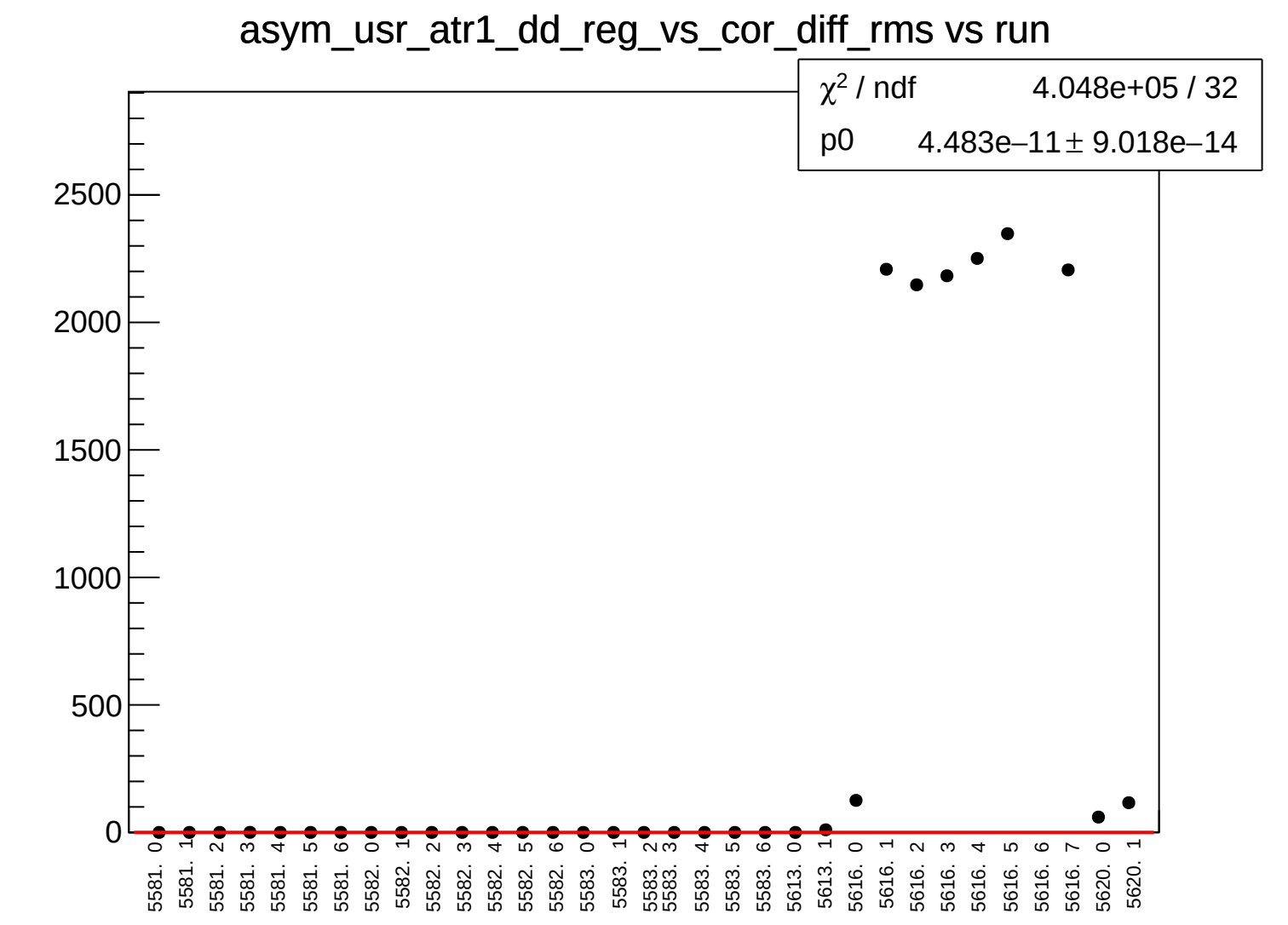

asym_usr_atr1_dd_mean vs run
×10^3
χ² / ndf 44.57 / 32
p0 −1471 ± 3237
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.79
Std Dev 0
2
1
0
−1
−2
−3

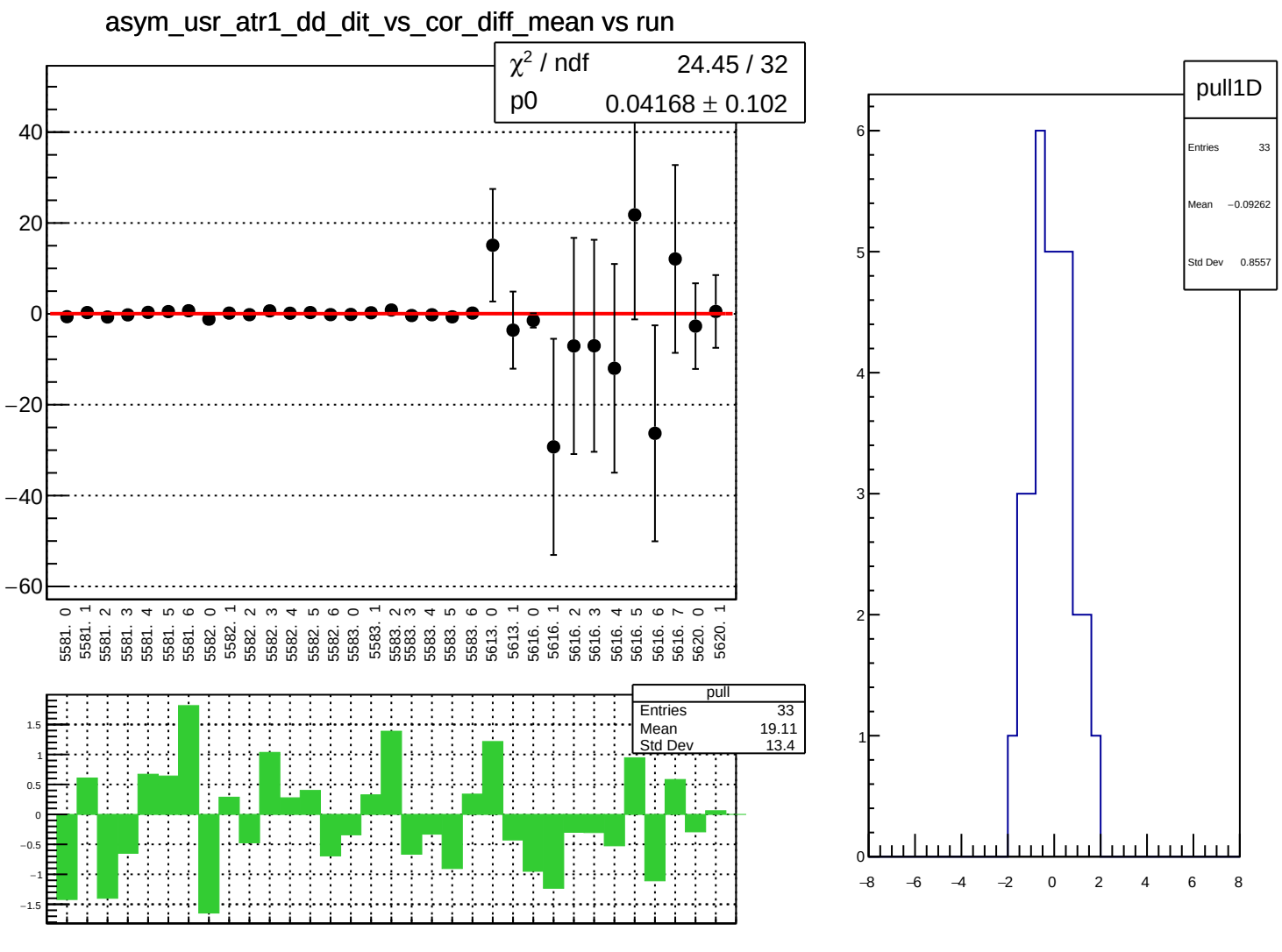

pull1D
Entries 33
Mean 0.04352
Std Dev 1.161
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

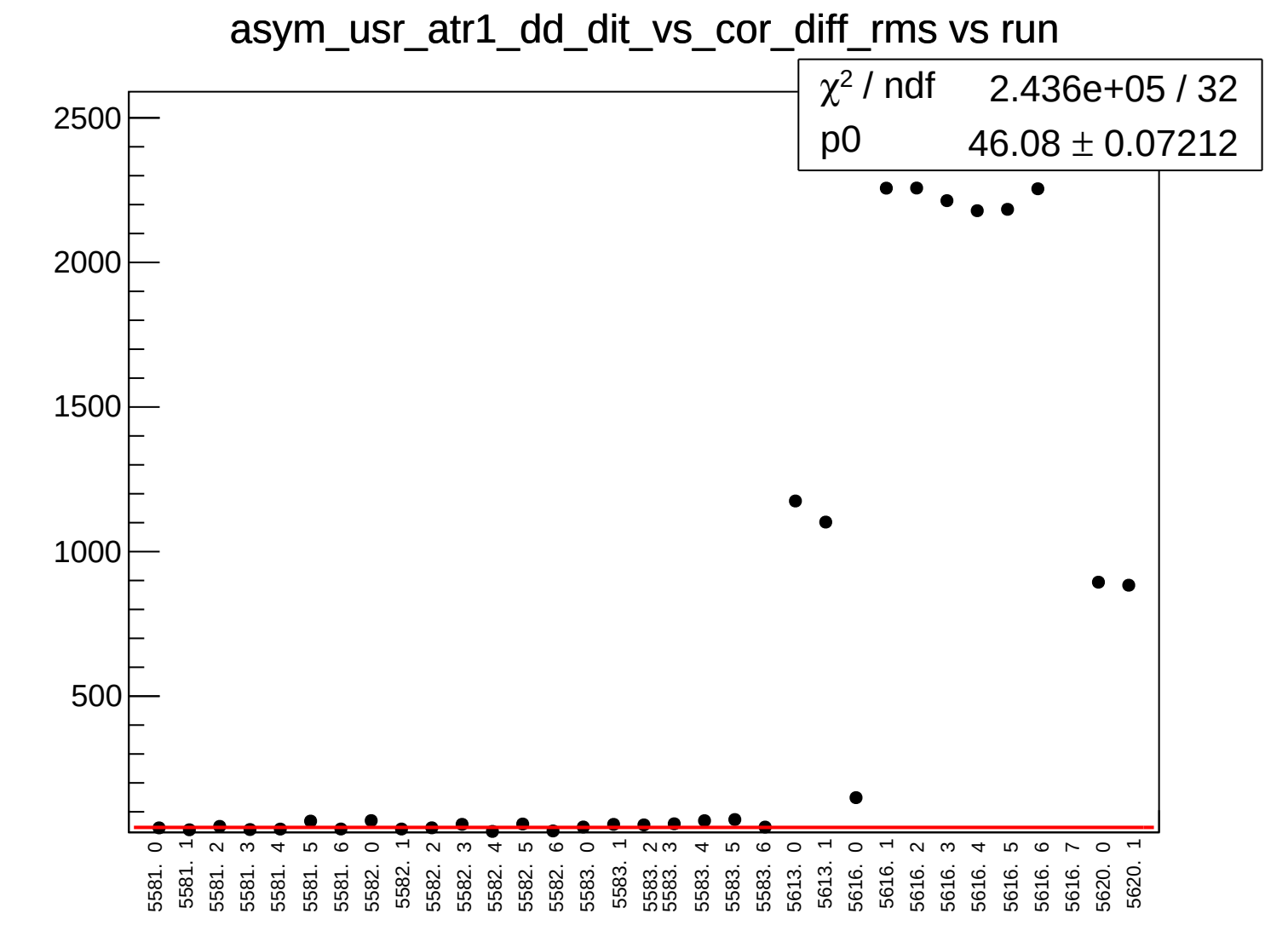

asym_usr_atr1_dd_rms vs run
χ² / ndf 1.943e+04 / 32
p0 1820 ± 2.289
3000
2800
2600
2400
2200
2000
1800
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

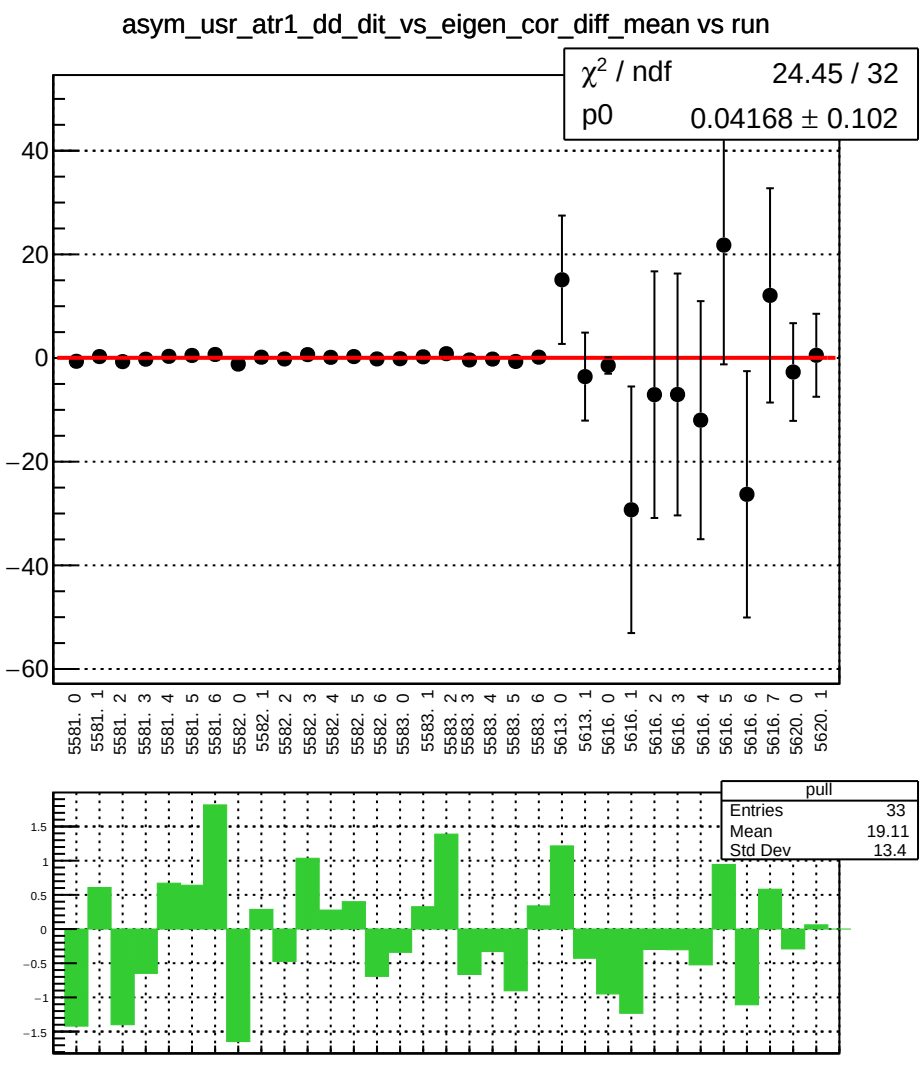

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 22.07 / 32
p0 −7.777e−14 ± 1.275e−13
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −42.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

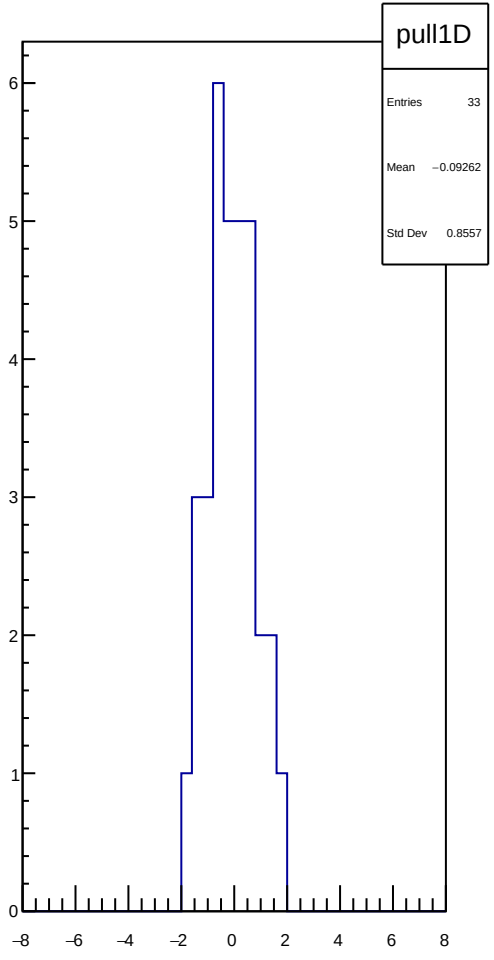

pull1D
Entries 33
Mean 0.02893
Std Dev 0.8172
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

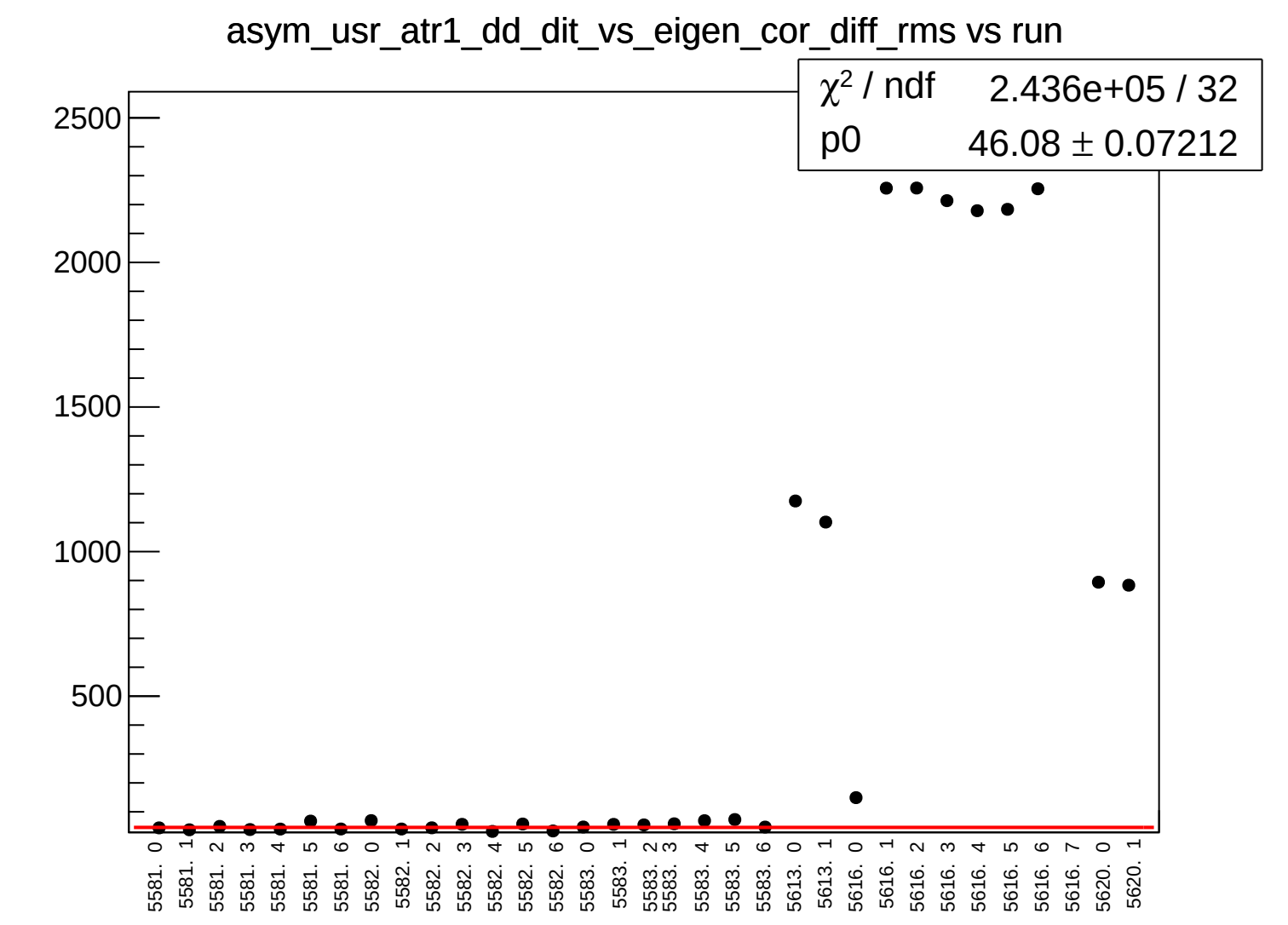

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.048e+05 / 32
p0 4.483e−11 ± 9.018e−14
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

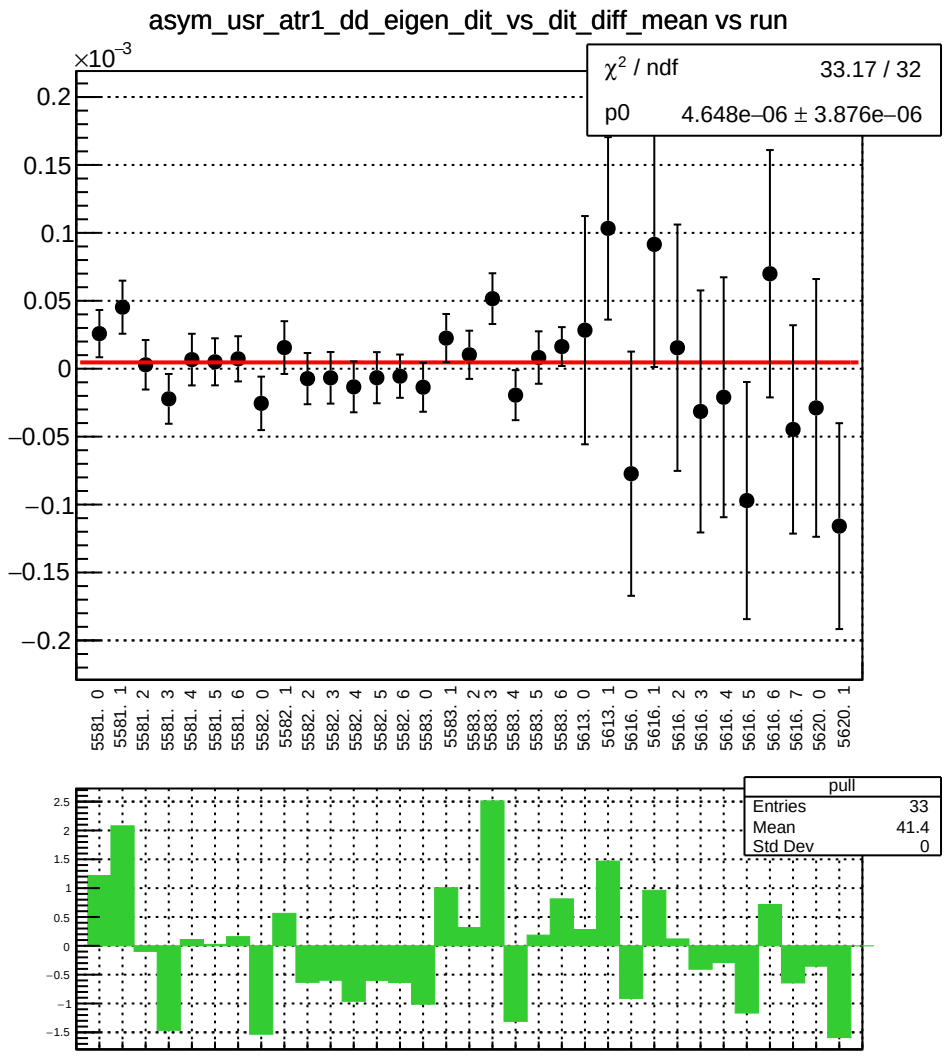

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 24.45 / 32
p0 0.04168 ± 0.102
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.11
Std Dev 13.4
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.09262
Std Dev 0.8557
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

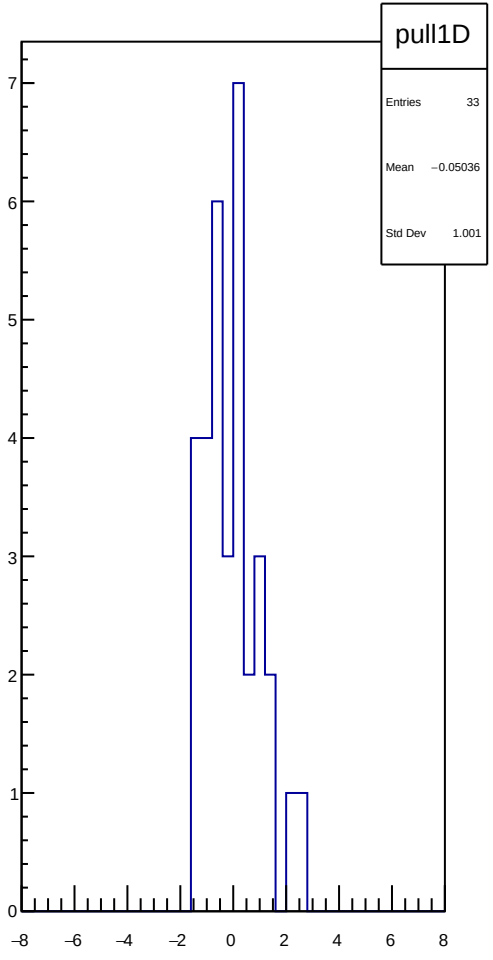

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.436e+05 / 32
p0 46.08 ± 0.07212
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

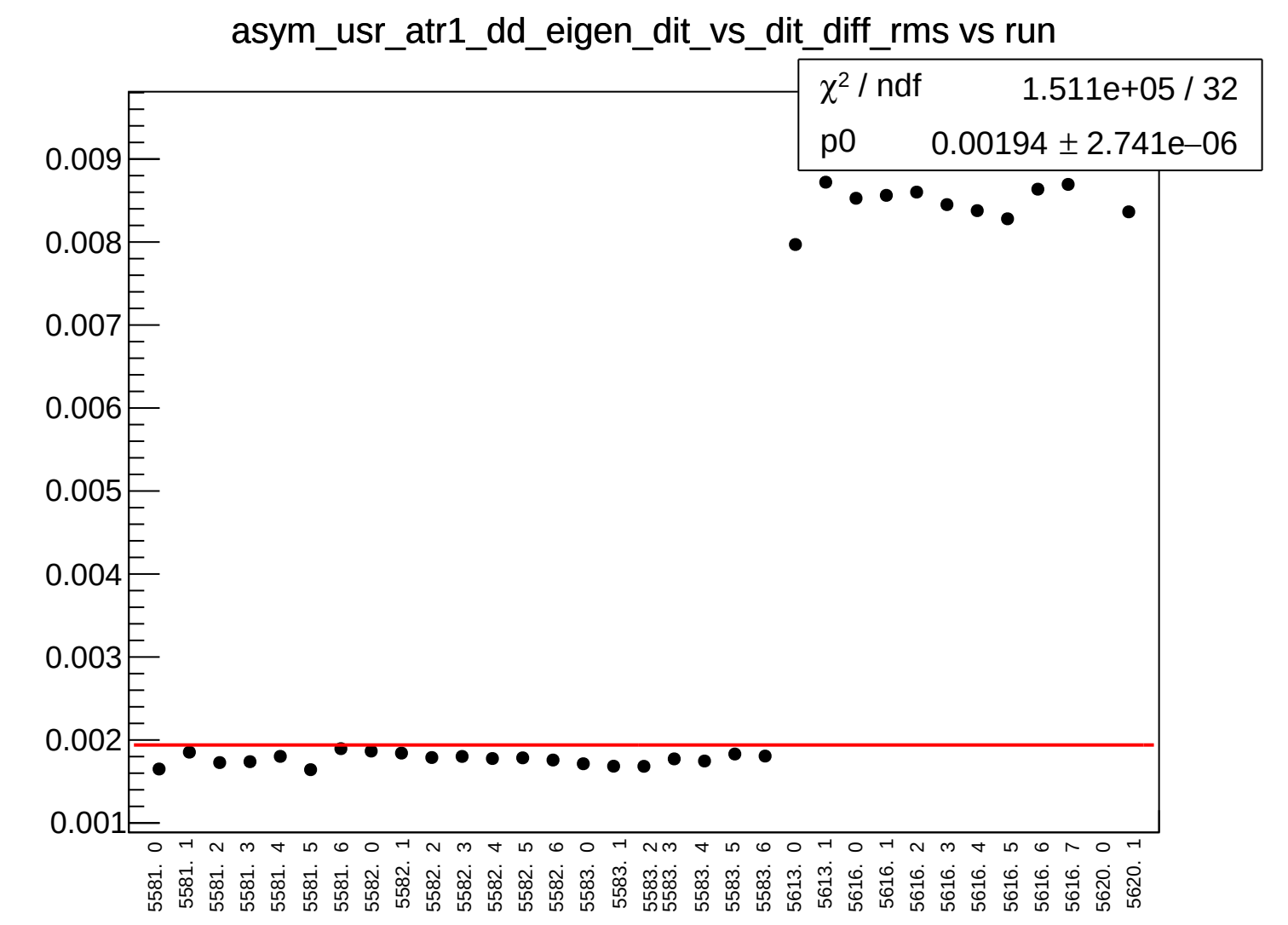

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.45 / 32
p0 0.04168 ± 0.102
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.11
Std Dev 13.4
1.5
1
0.5
0
−0.5
−1
−1.5

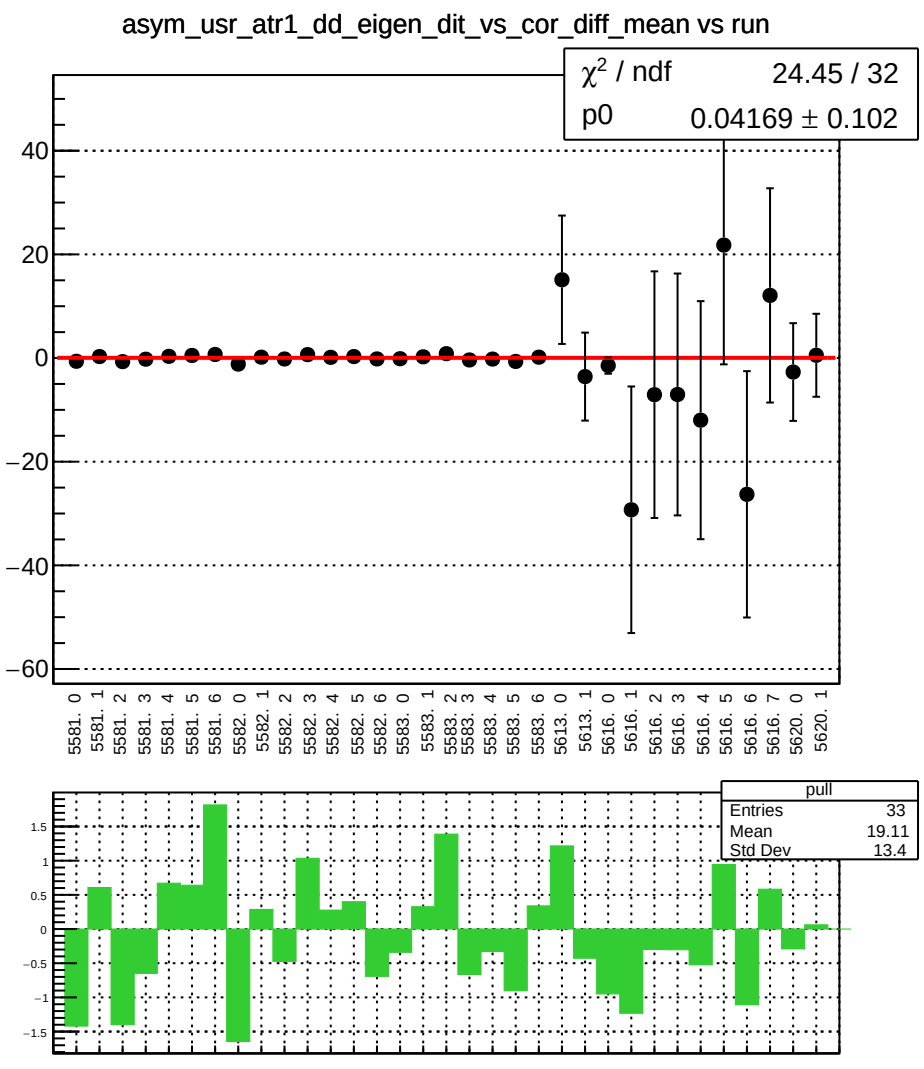

pull1D
Entries 33
Mean −0.09262
Std Dev 0.8557
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

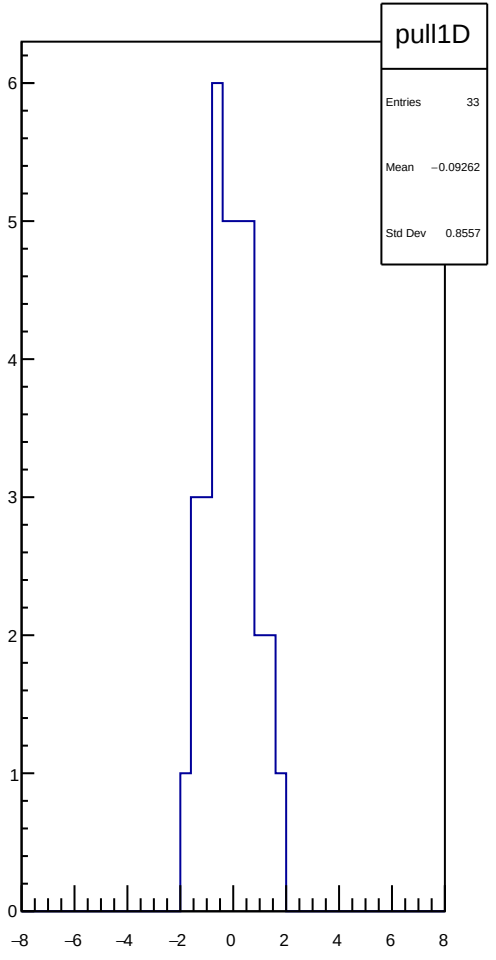

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.436e+05 / 32
p0 46.08 ± 0.07212
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

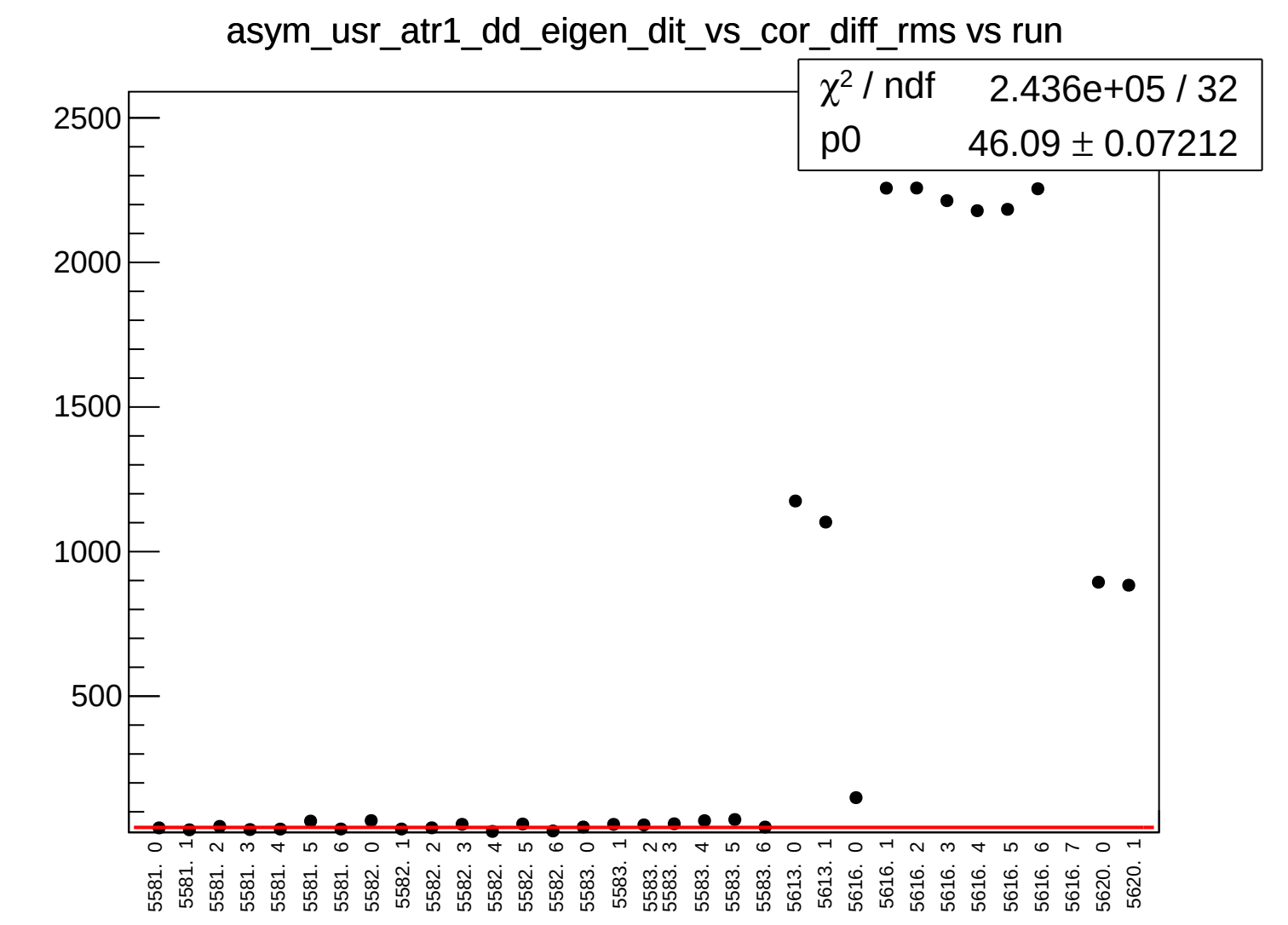

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.17 / 32
p0 4.648e−06 ± 3.876e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 41.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

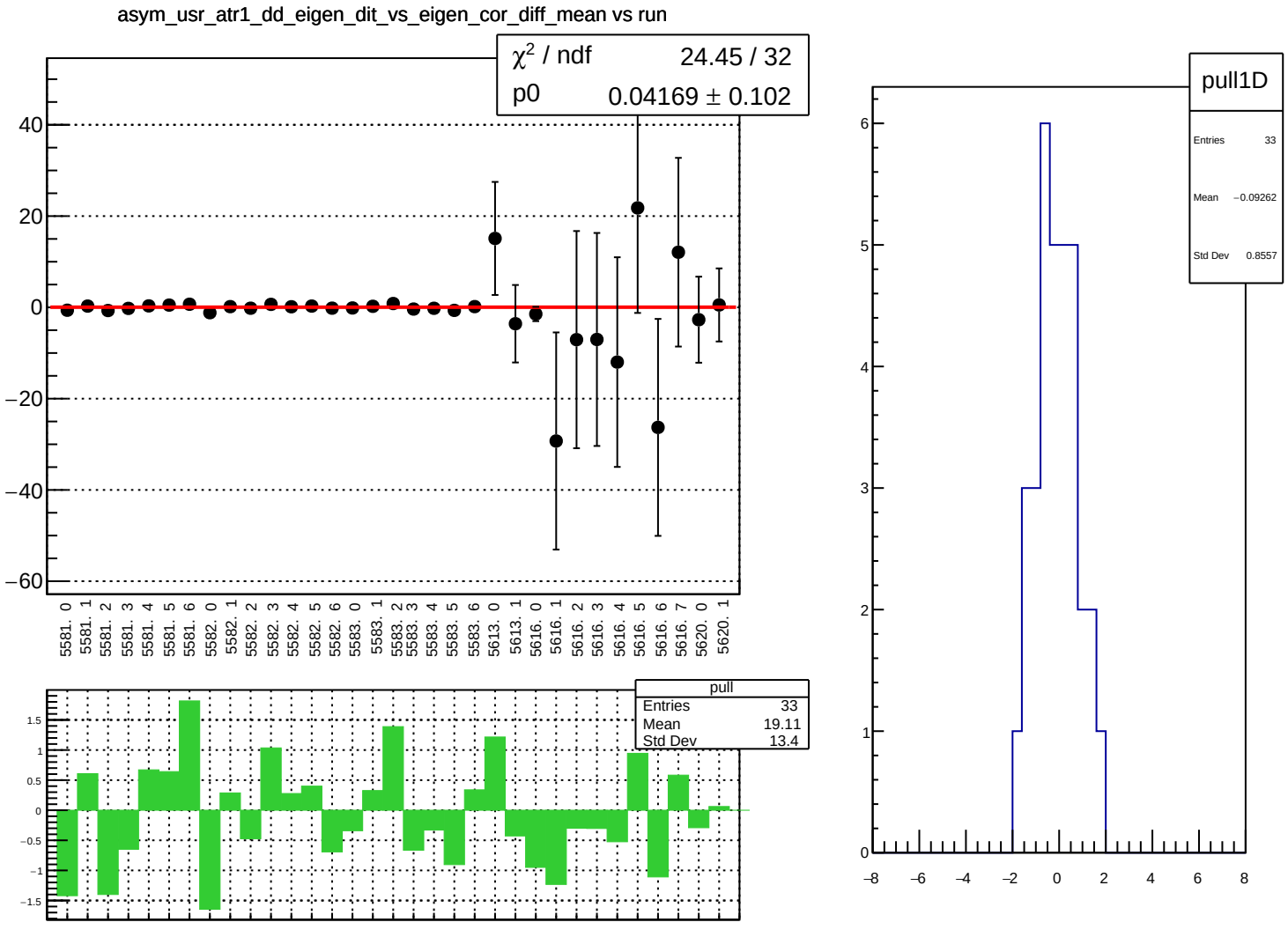

pull1D
Entries 33
Mean −0.05036
Std Dev 1.001
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

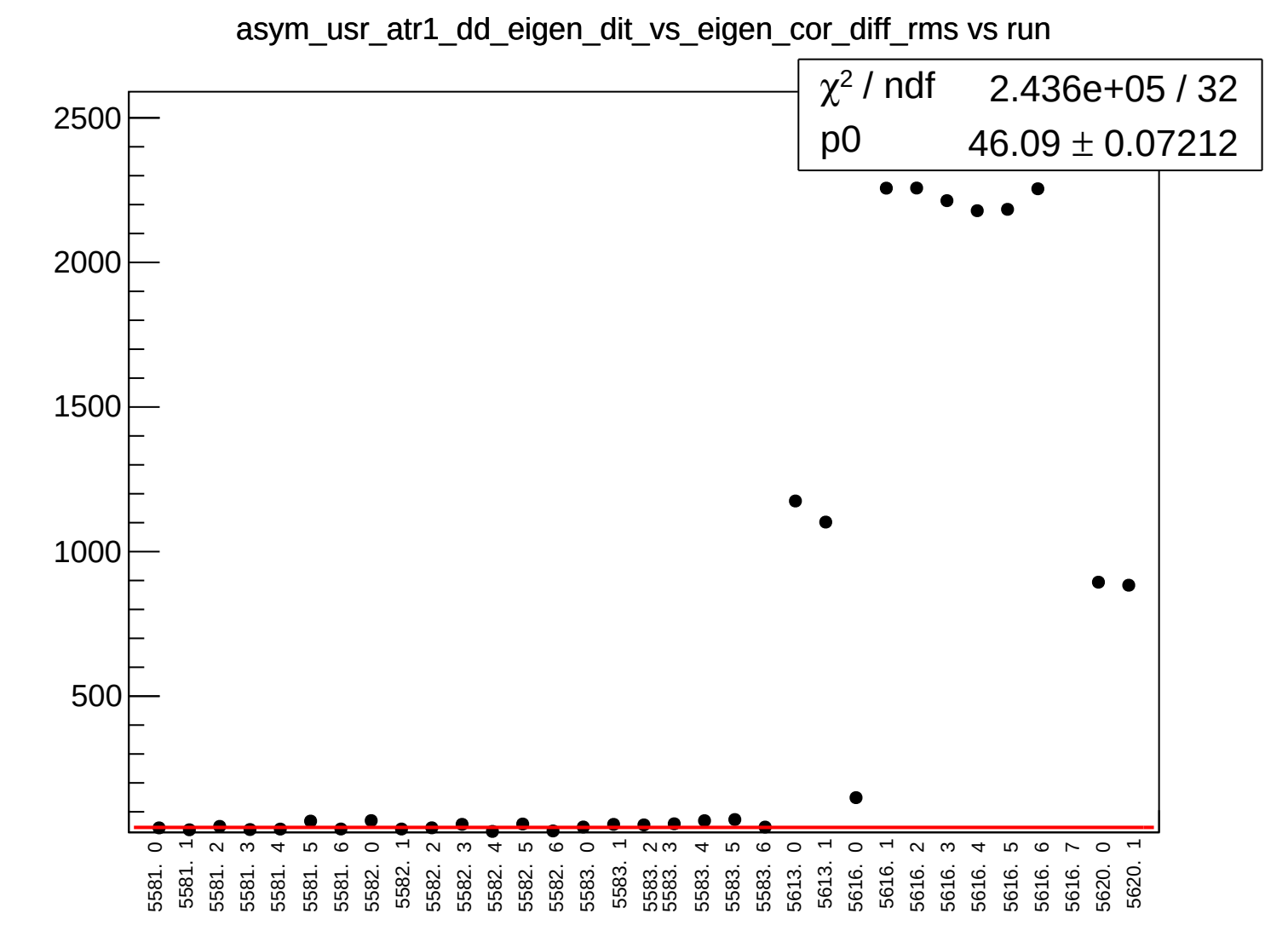

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.511e+05 / 32
p0 0.00194 ± 2.741e–06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

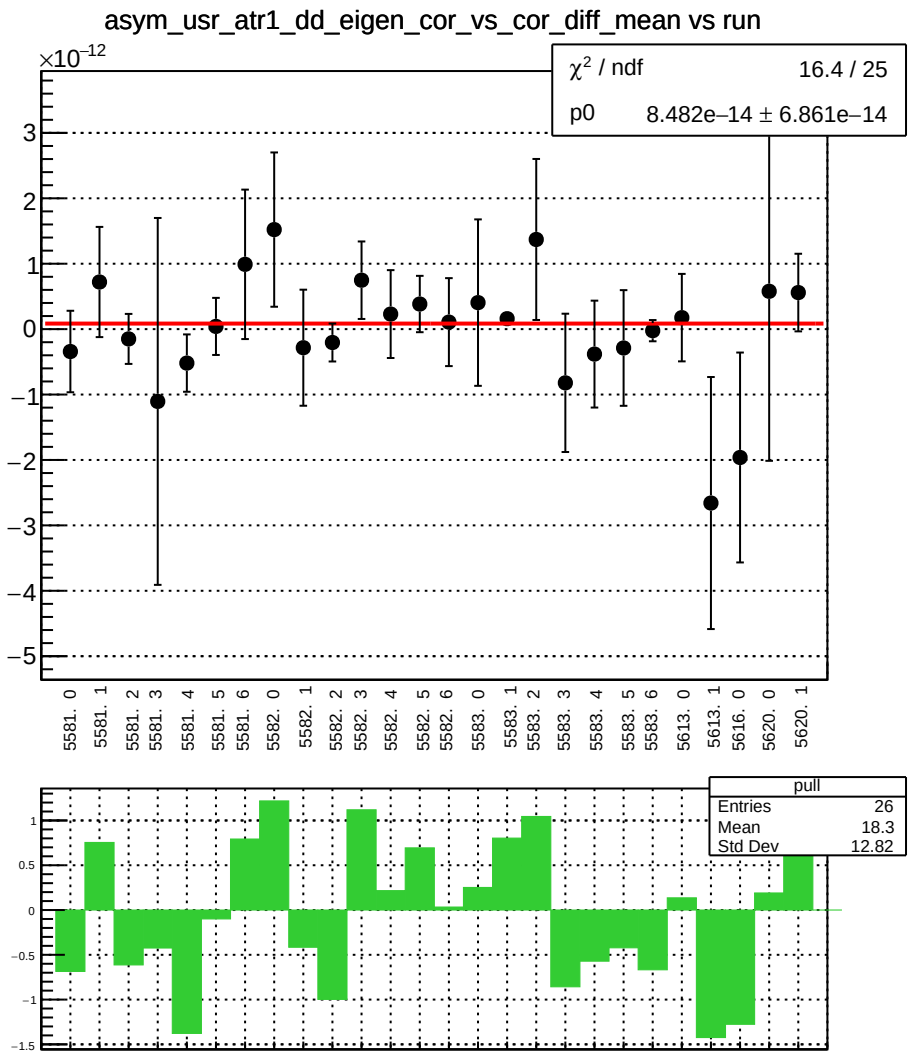

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.45 / 32
p0 0.04169 ± 0.102
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.11
Std Dev 13.4
1.5
1
0.5
0
−0.5
−1
−1.5

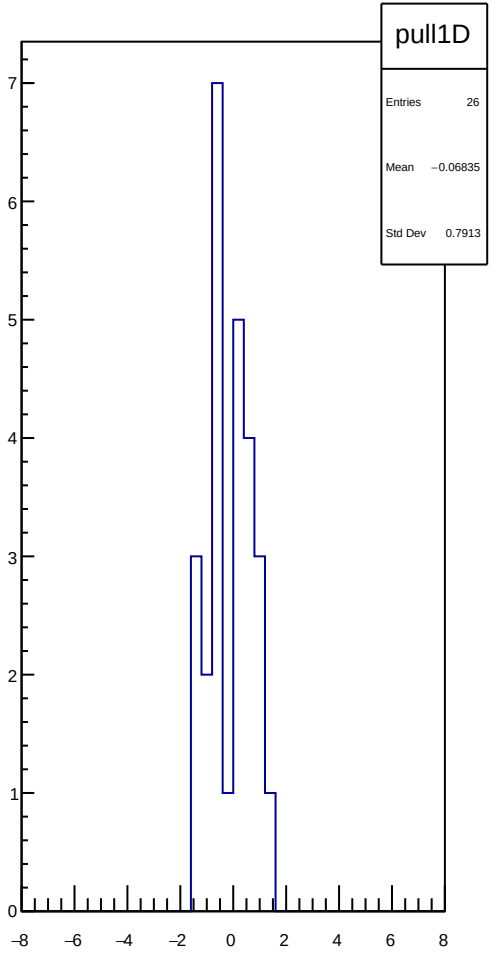

pull1D
Entries 33
Mean −0.09262
Std Dev 0.8557
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

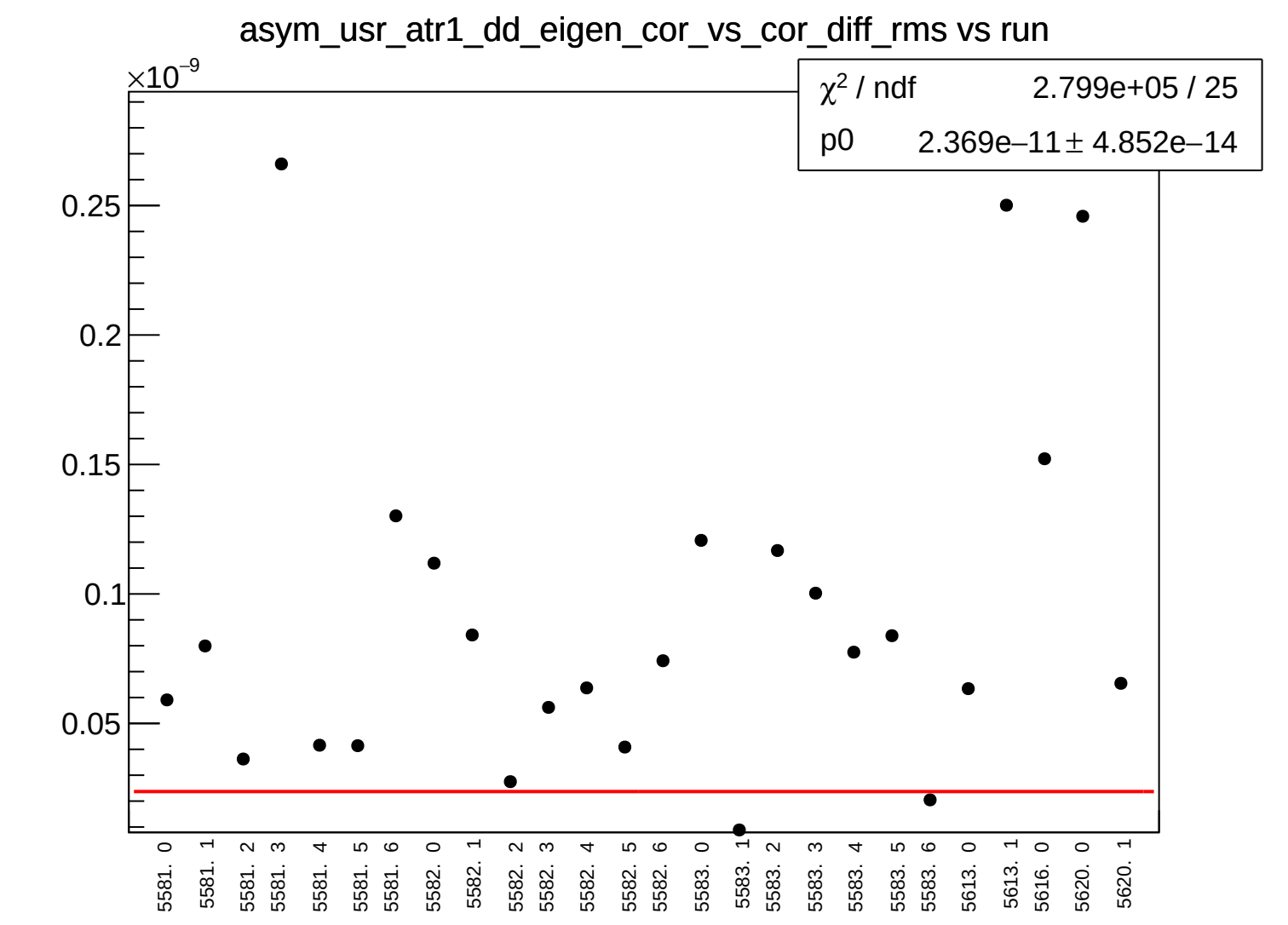

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.436e+05 / 32
p0 46.09 ± 0.07212
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

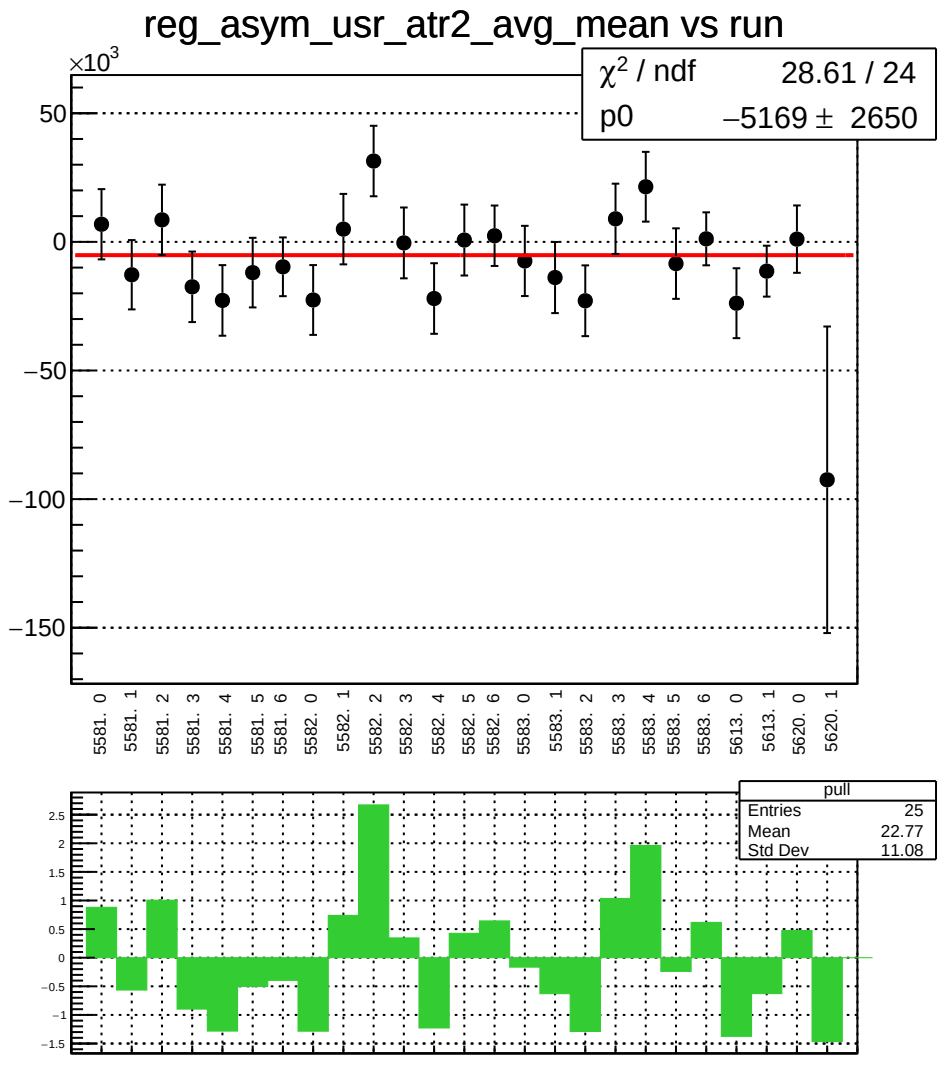

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.45 / 32
p0 0.04169 ± 0.102
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.11
Std Dev 13.4
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.09262
Std Dev 0.8557
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

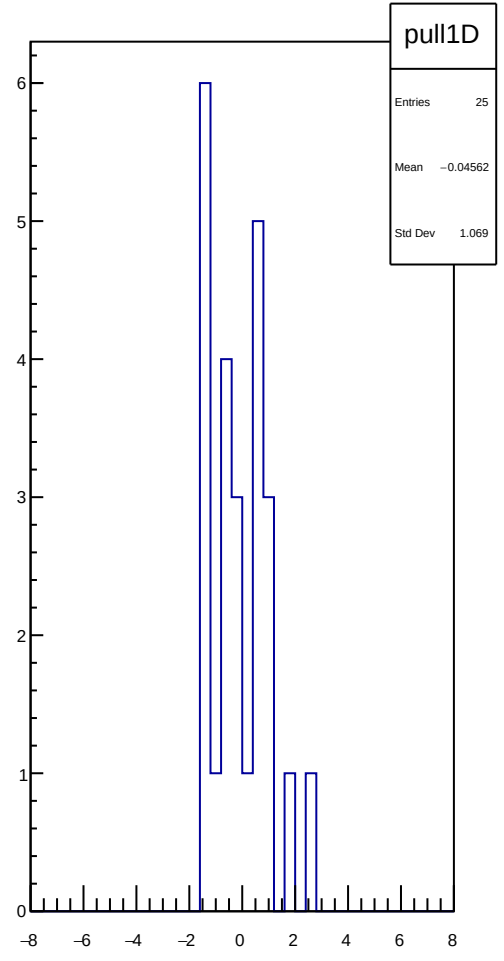

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.436e+05 / 32
p0 46.09 ± 0.07212
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

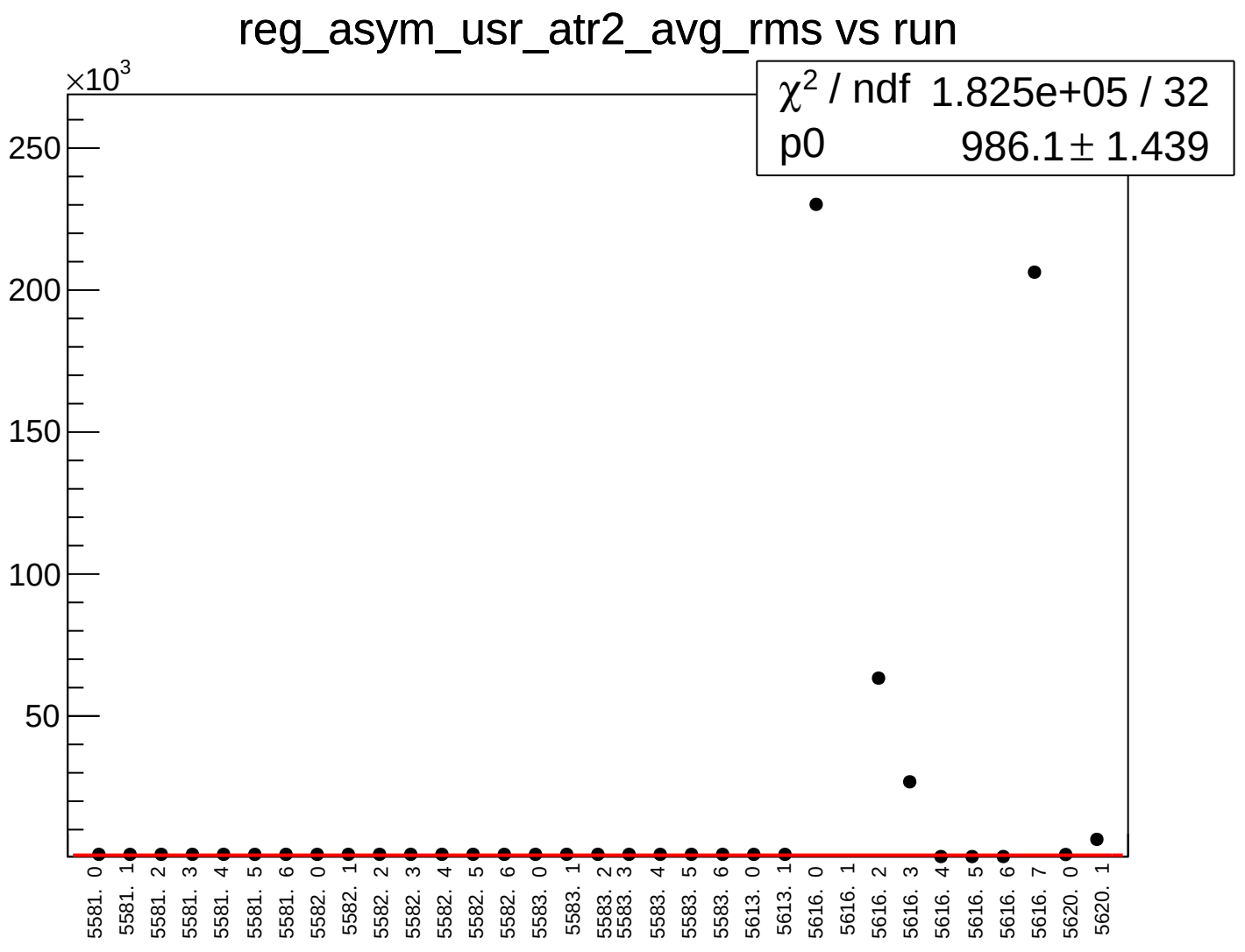

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 16.4 / 25
p0 8.482e−14 ± 6.861e−14
3
2
1
0
−1
−2
−3
−4
−5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 18.3
Std Dev 12.82
1
0.5
0
−0.5
−1
−1.5

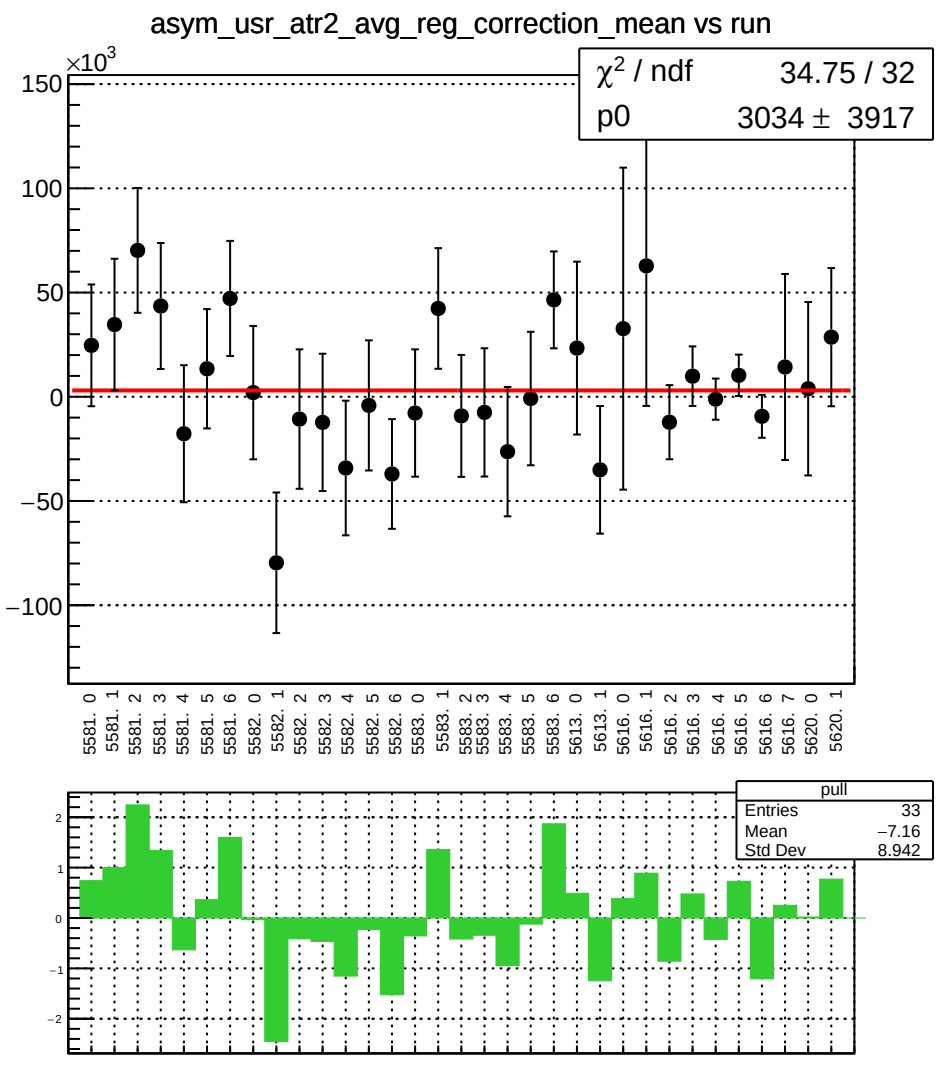

pull1D
Entries 26
Mean −0.06835
Std Dev 0.7913
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

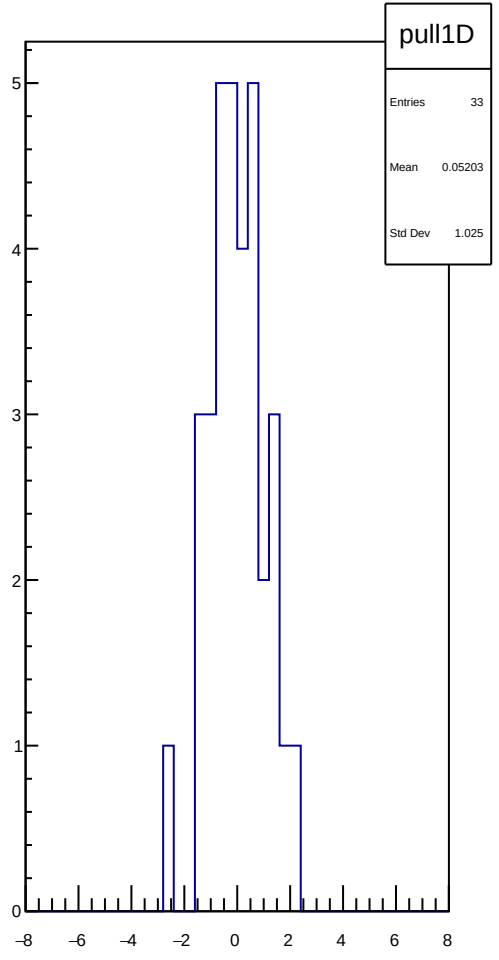

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.799e+05 / 25
p0 2.369e−11 ± 4.852e−14
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

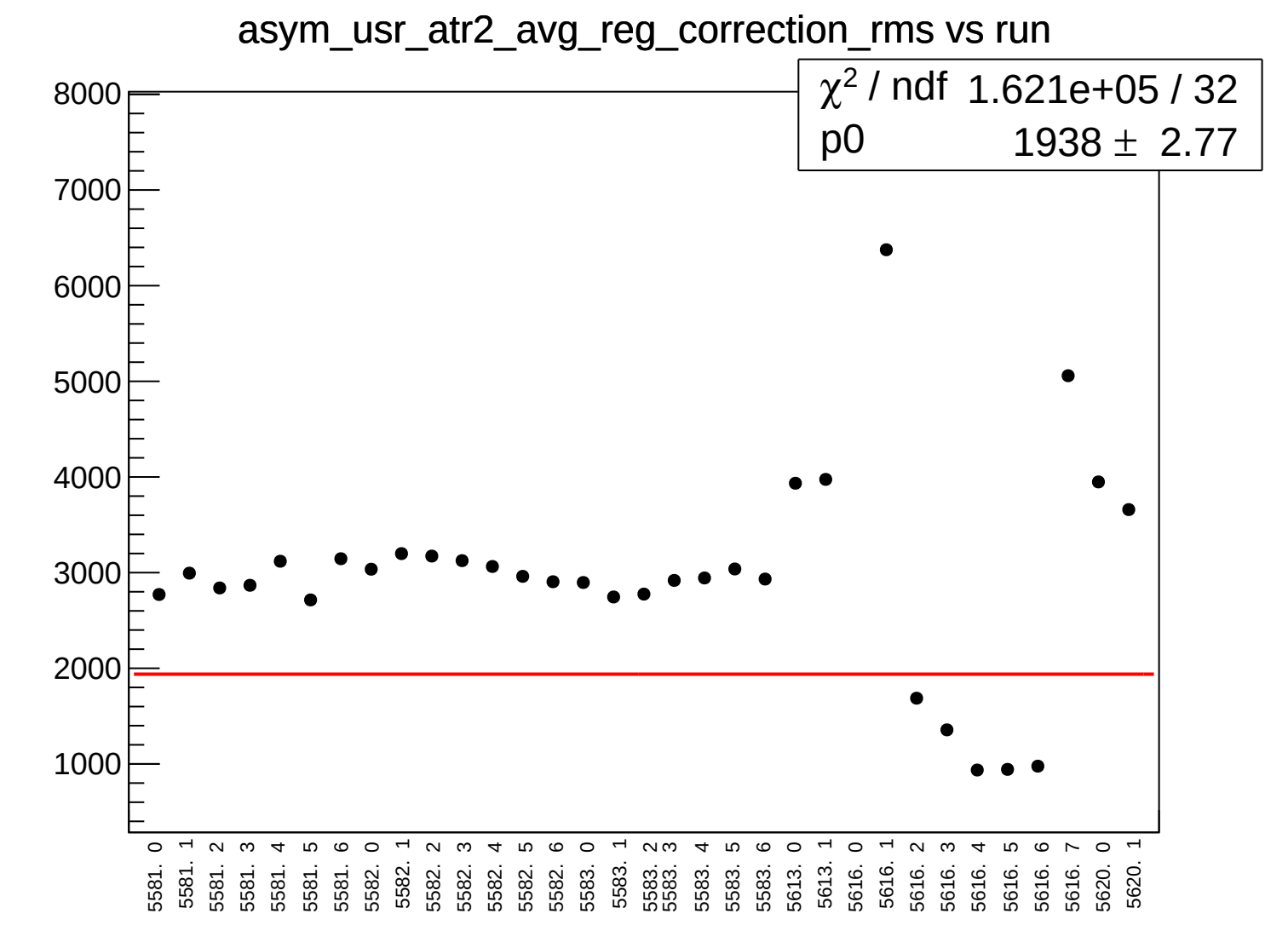

reg_asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 28.61 / 24
p0 −5169 ± 2650
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 22.77
Std Dev 11.08
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

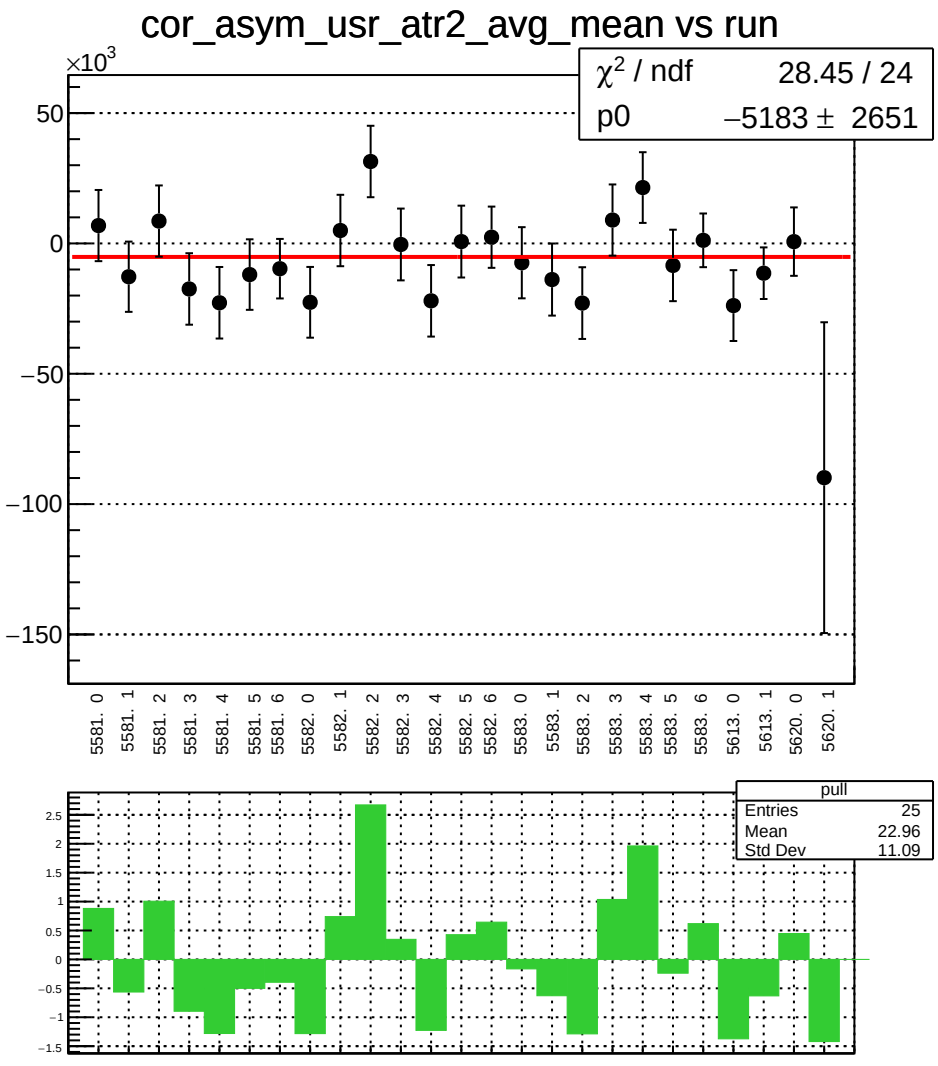

pull1D
Entries 25
Mean −0.04562
Std Dev 1.069
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

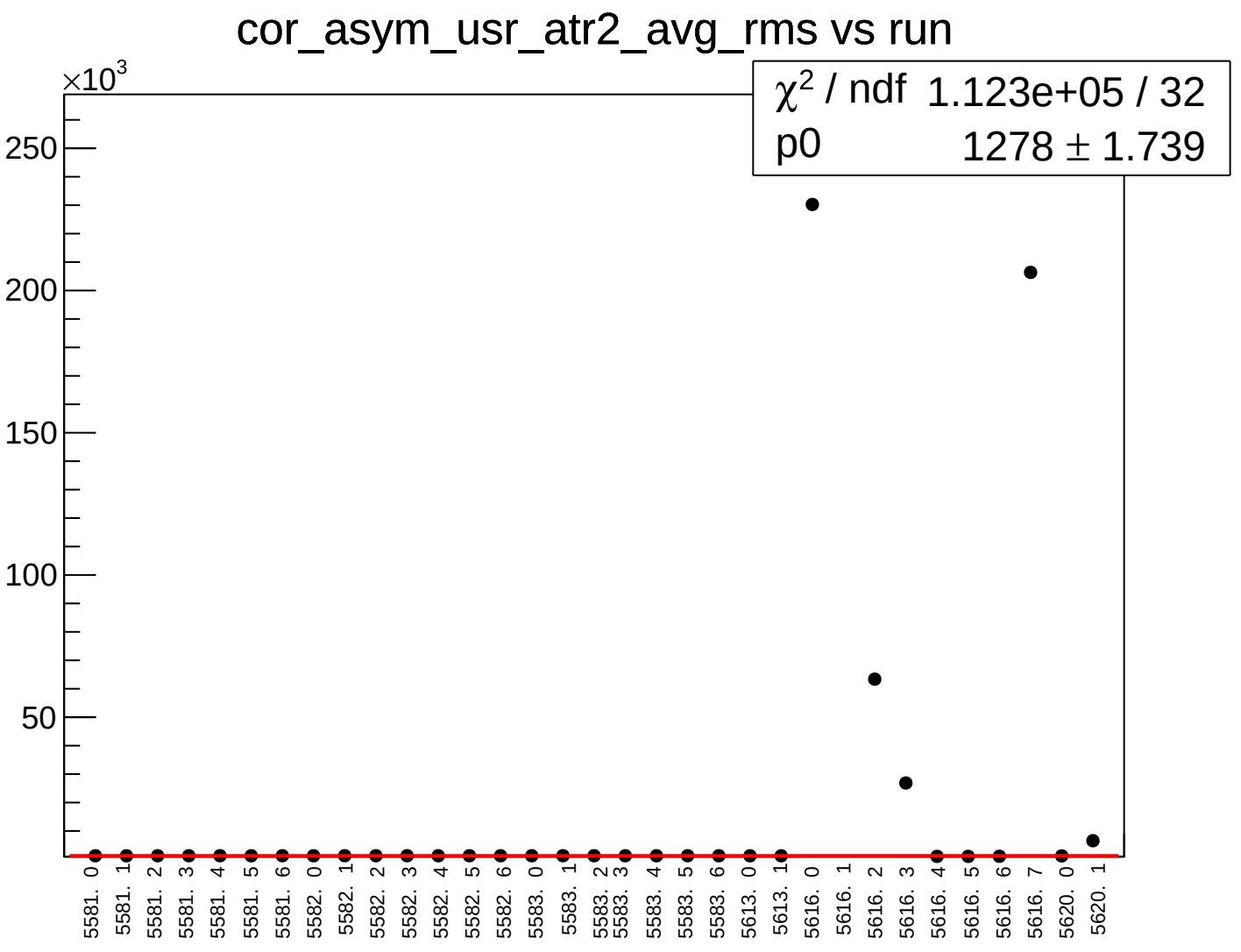

reg_asym_usr_atr2_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.825e+05 / 32
p0 986.1 ± 1.439
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

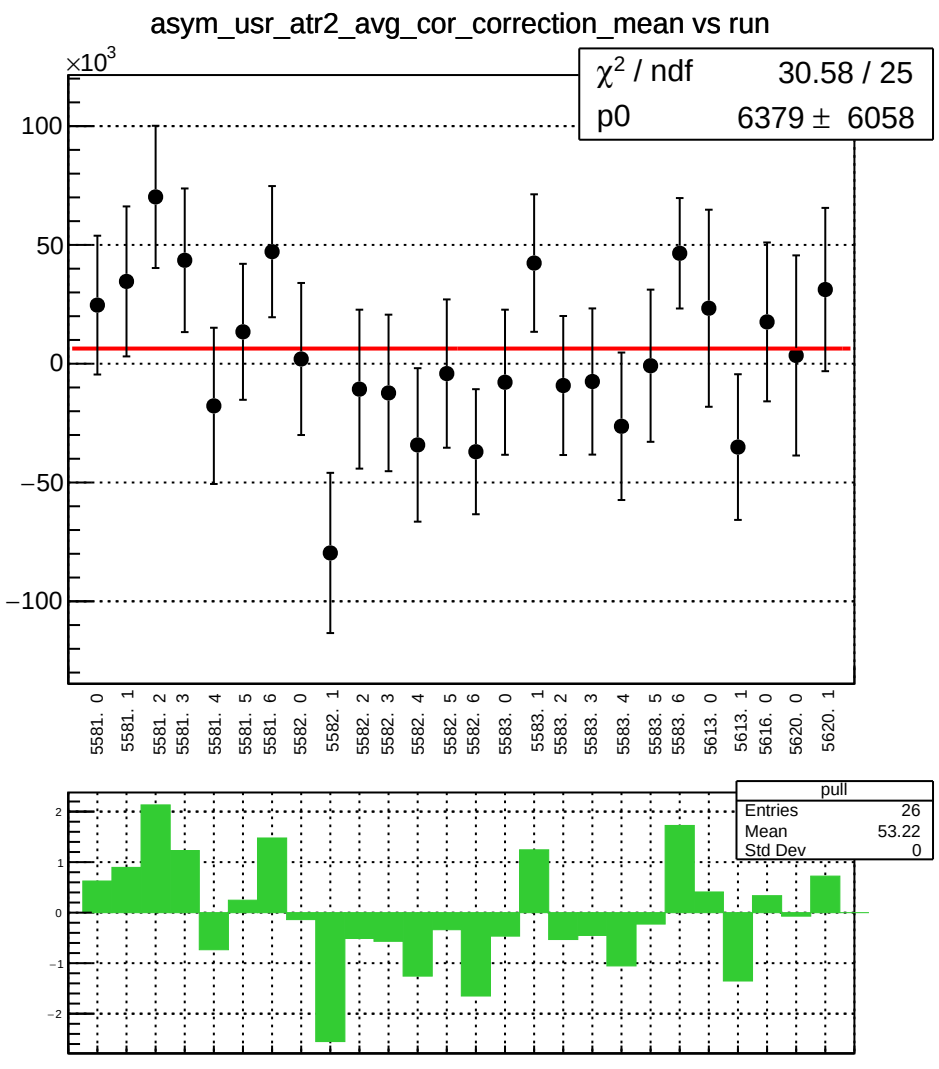

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 34.75 / 32
p0 3034 ± 3917
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −7.16
Std Dev 8.942
2
1
0
−1
−2

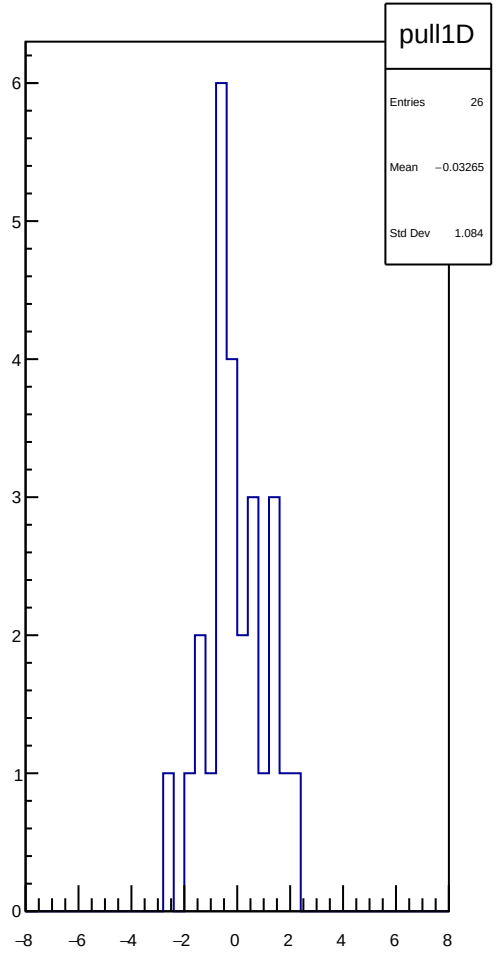

pull1D
Entries 33
Mean 0.05203
Std Dev 1.025
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

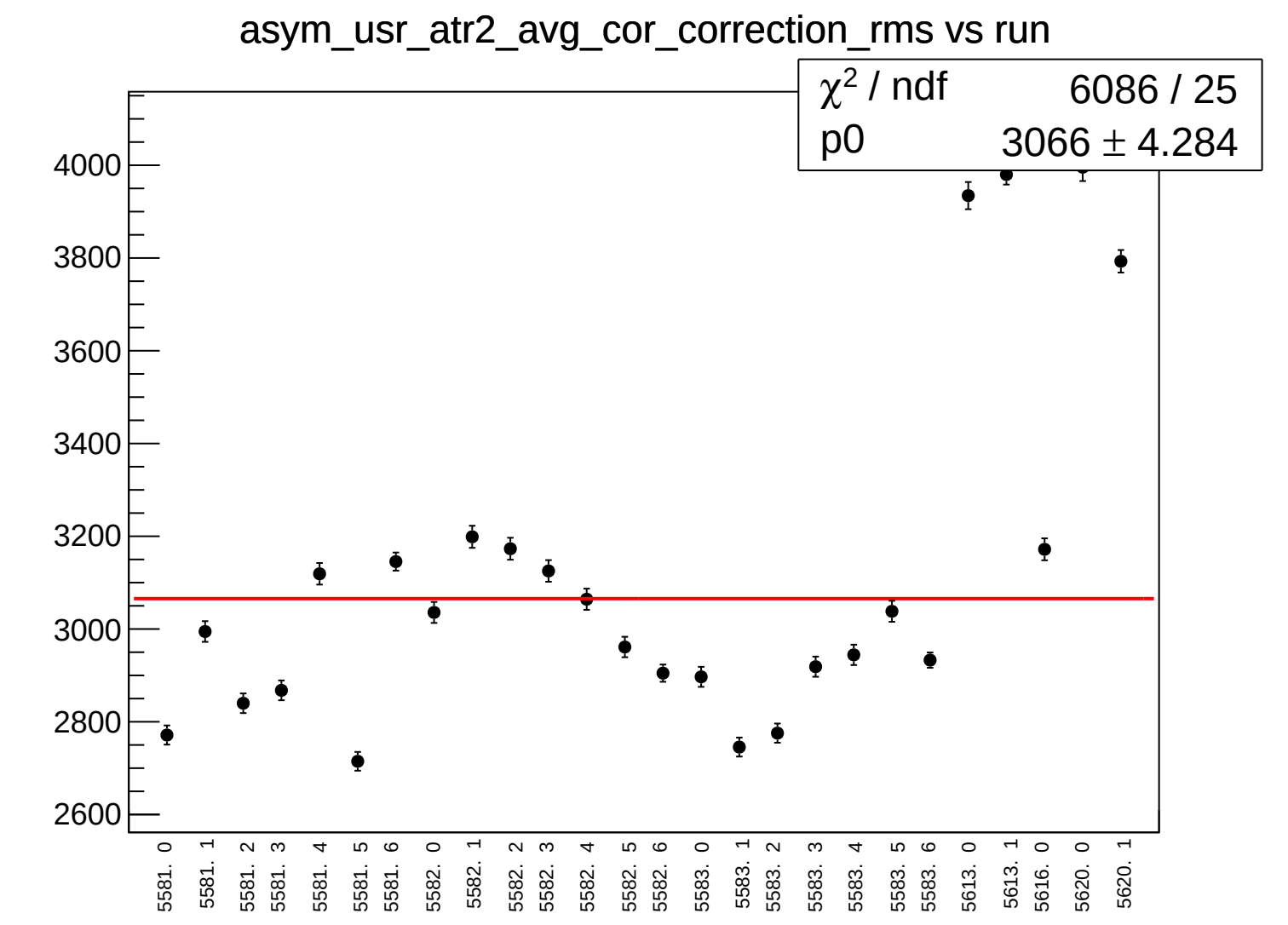

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 1.621e+05 / 32
p0 1938 ± 2.77
8000
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

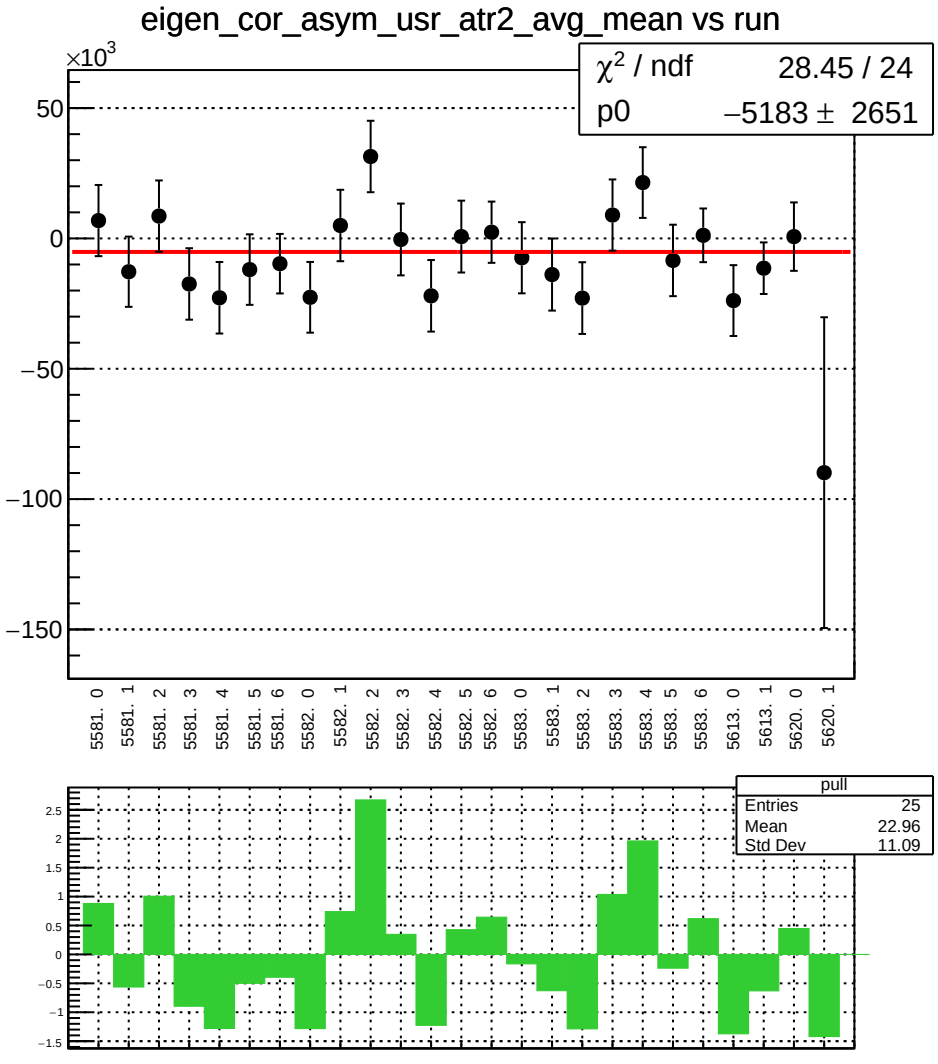

cor_asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 28.45 / 24
p0 −5183 ± 2651
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 22.96
Std Dev 11.09
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.04414
Std Dev 1.066
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

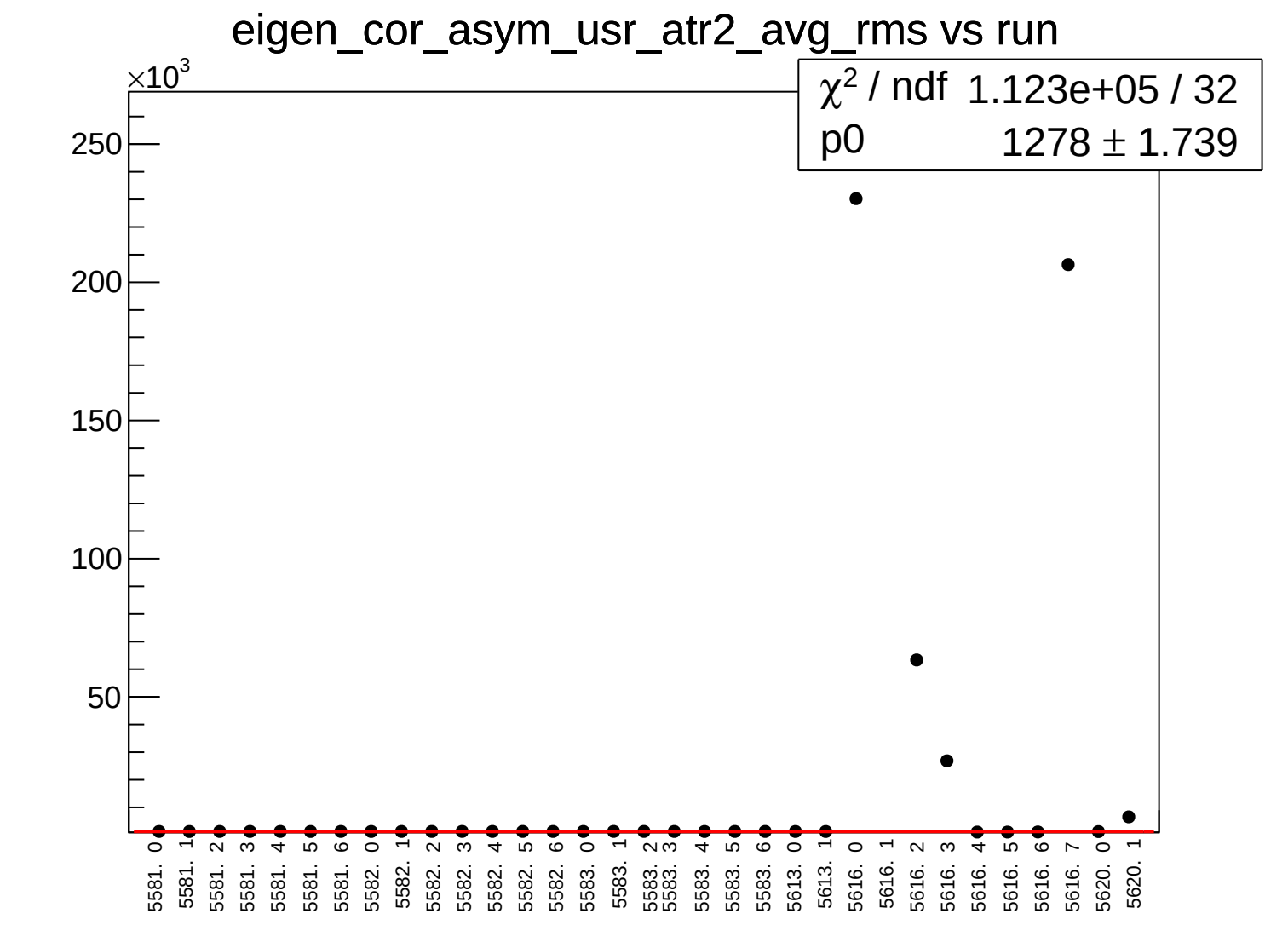

cor_asym_usr_atr2_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.123e+05 / 32
p0 1278 ± 1.739
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

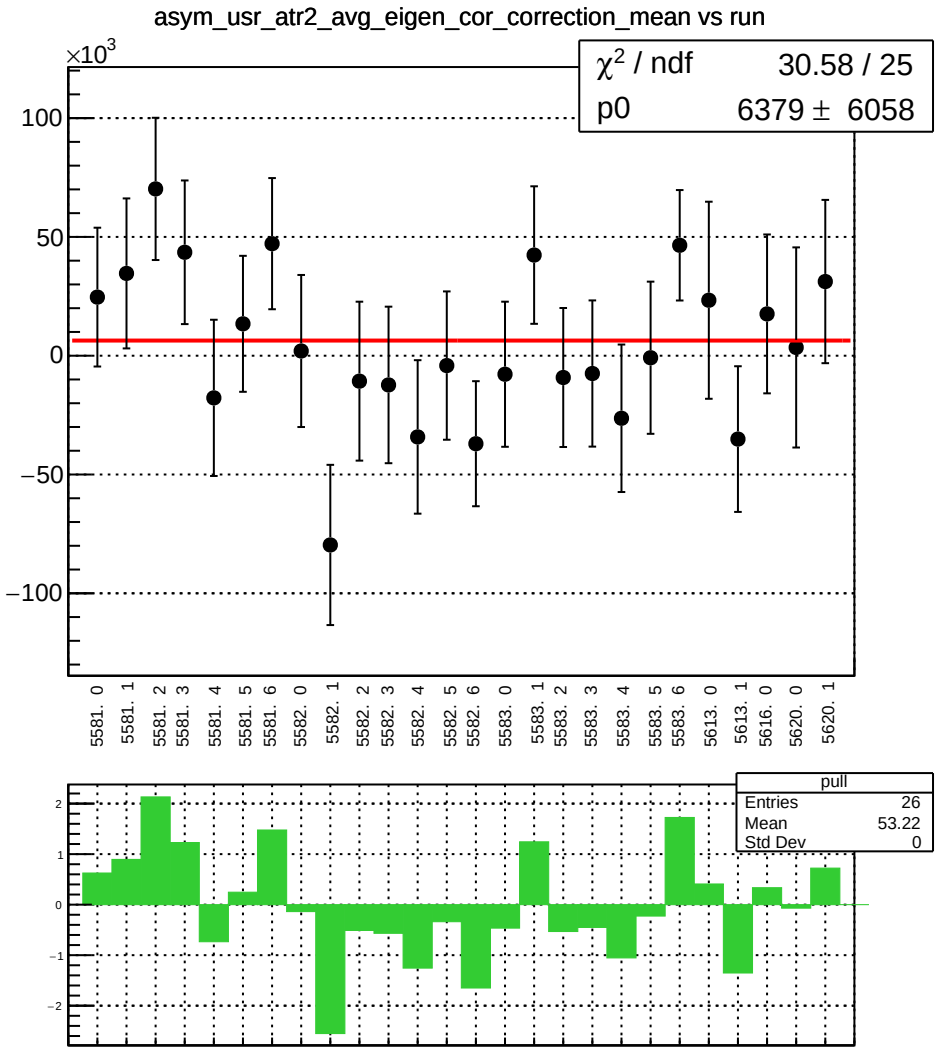

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 30.58 / 25
p0 6379 ± 6058
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 53.22
Std Dev 0
2
1
0
−1
−2

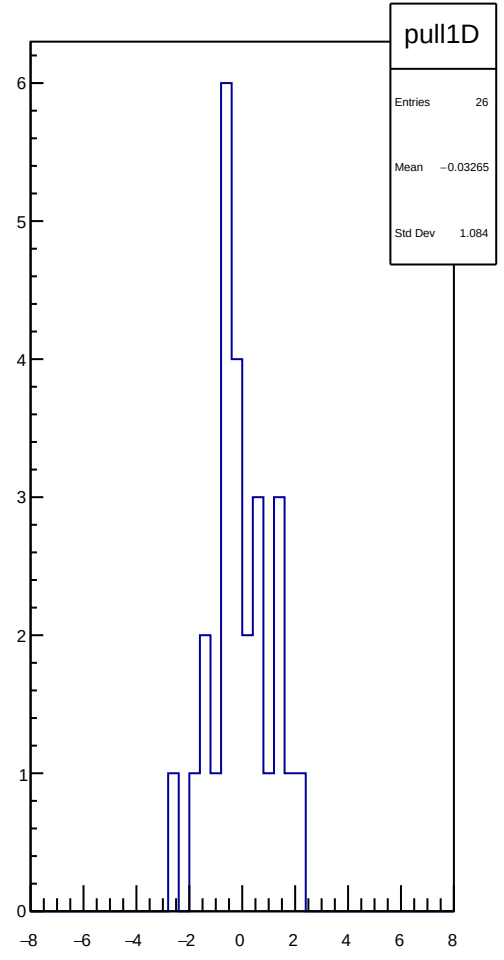

pull1D
Entries 26
Mean −0.03265
Std Dev 1.084
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

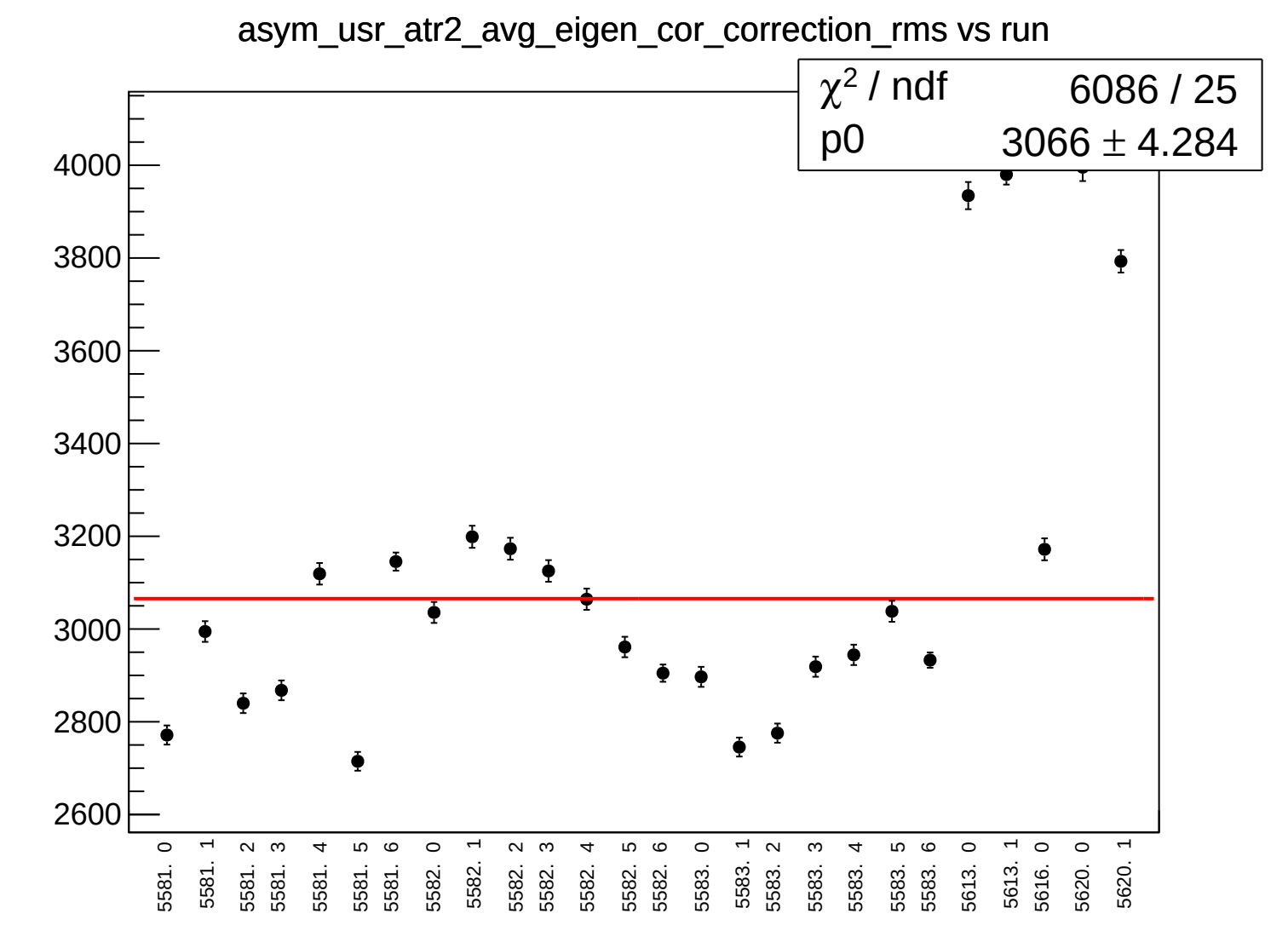

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 6086 / 25
p0 3066 ± 4.284
4000
3800
3600
3400
3200
3000
2800
2600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

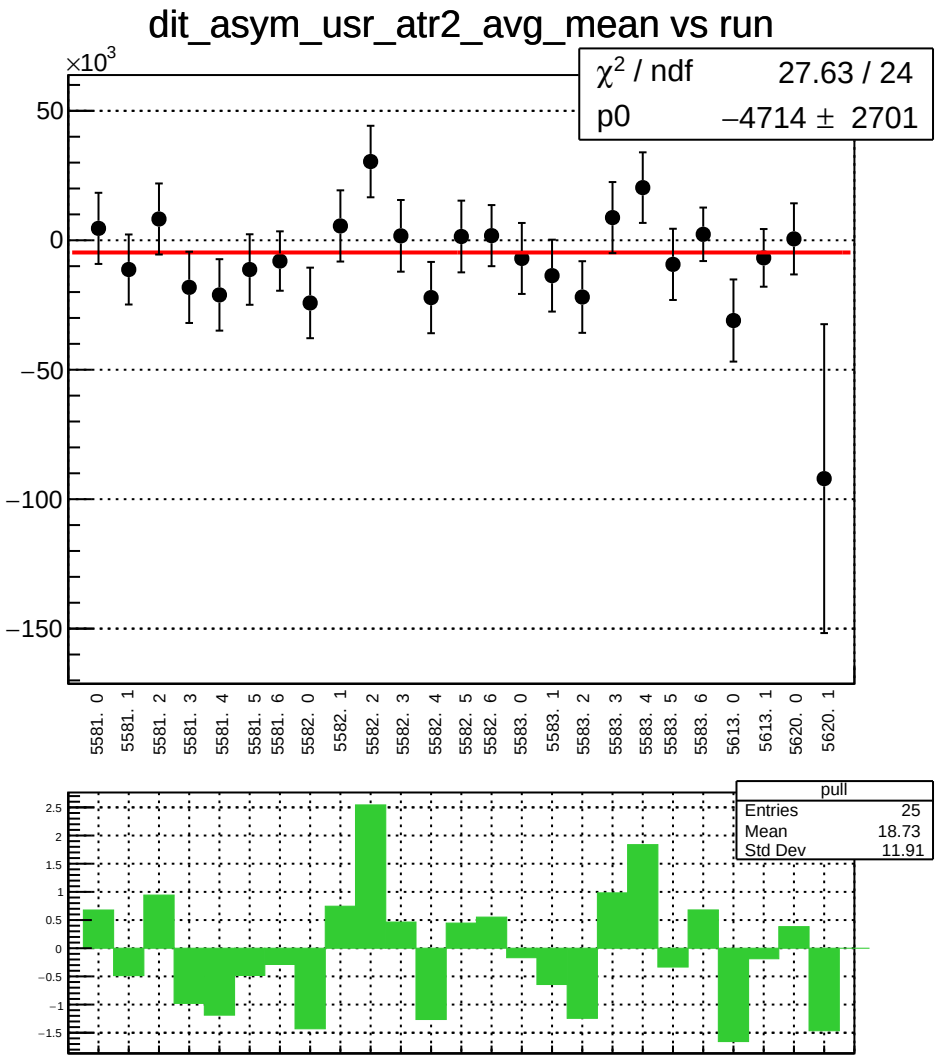

eigen_cor_asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 28.45 / 24
p0 −5183 ± 2651
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 22.96
Std Dev 11.09
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.04414
Std Dev 1.066
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

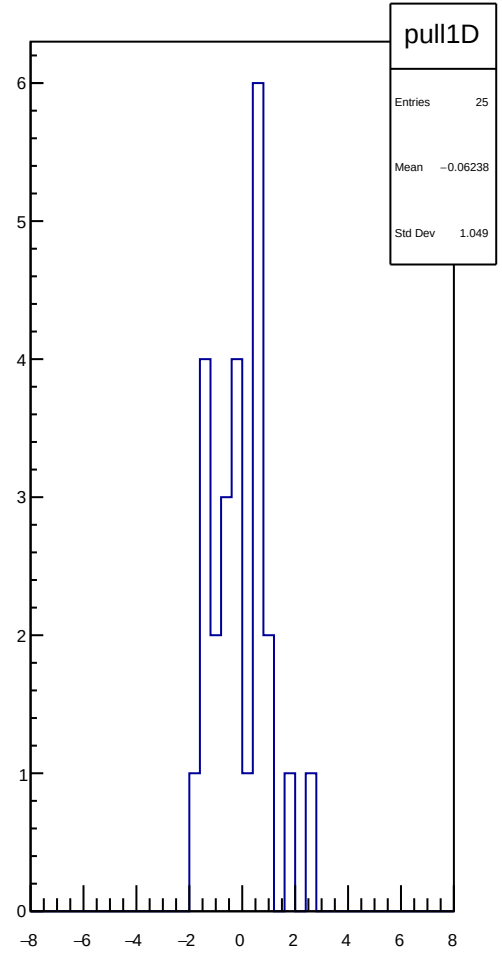

eigen_cor_asym_usr_atr2_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.123e+05 / 32
p0 1278 ± 1.739
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

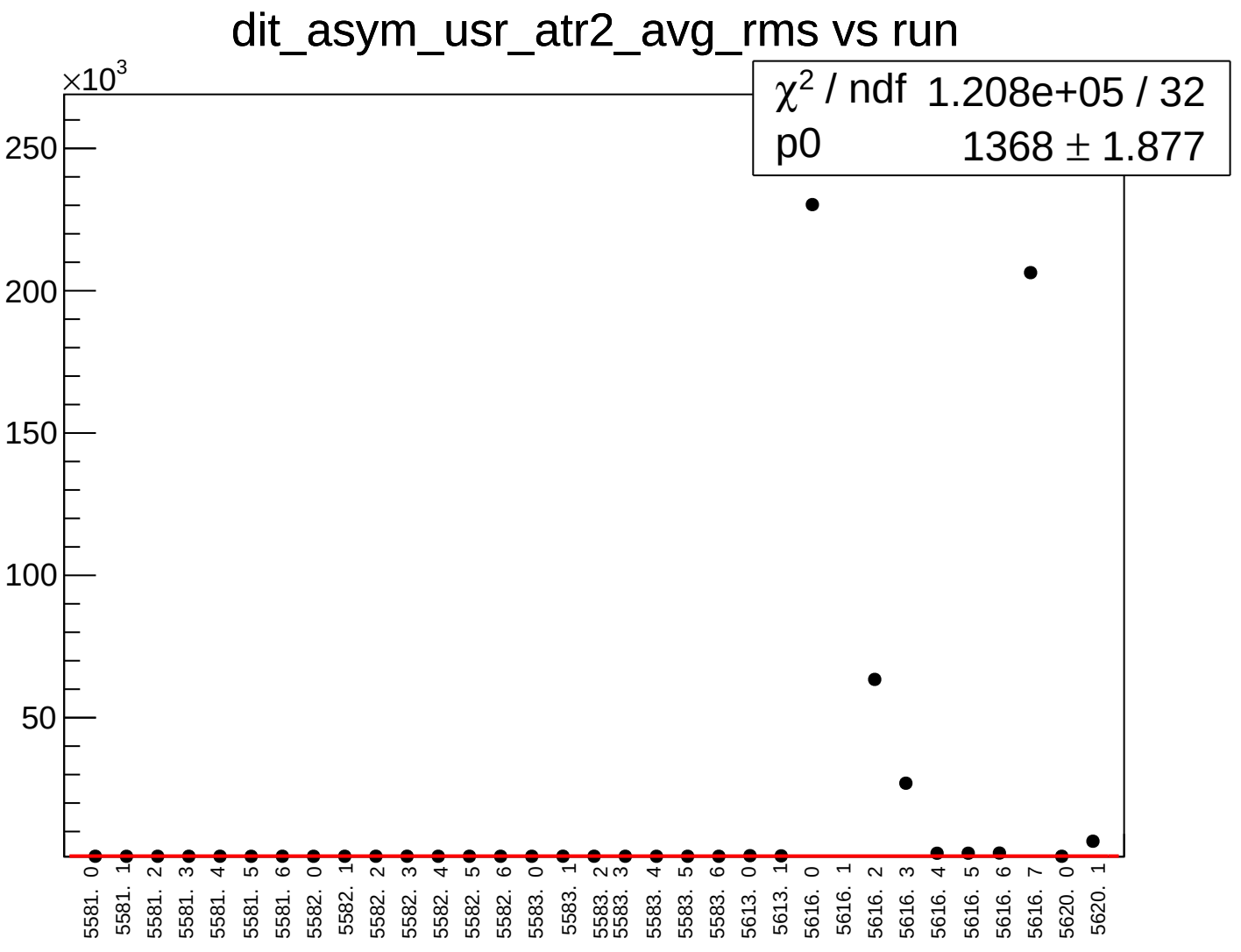

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 30.58 / 25
p0 6379 ± 6058
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 53.22
Std Dev 0
2
1
0
−1
−2

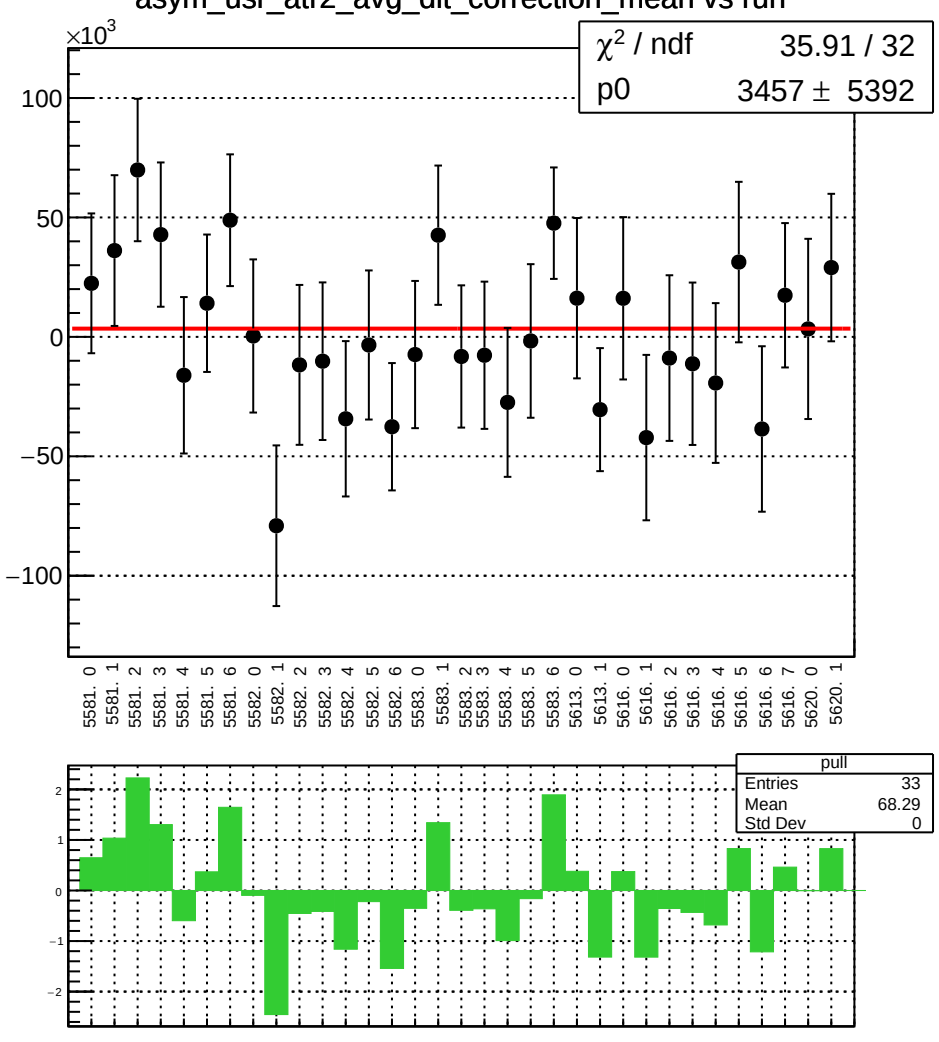

pull1D
Entries 26
Mean −0.03265
Std Dev 1.084
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

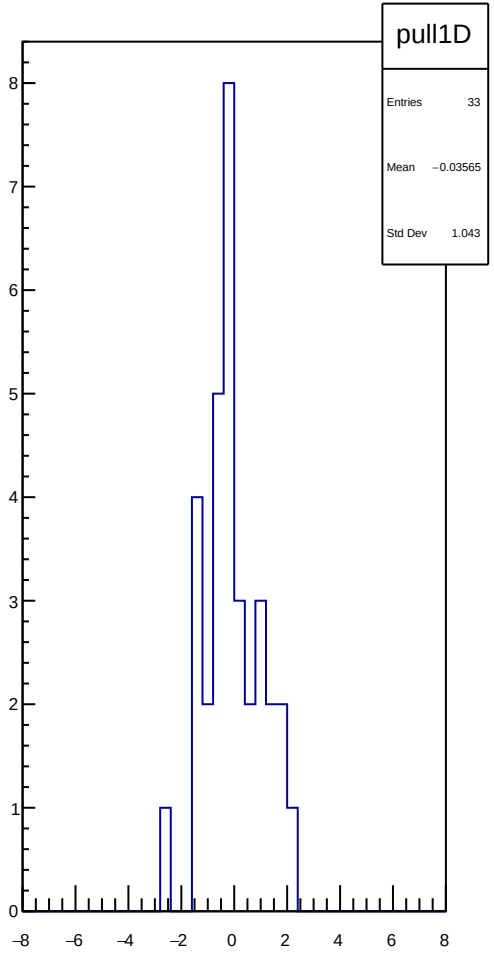

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6086 / 25
p0 3066 ± 4.284
4000
3800
3600
3400
3200
3000
2800
2600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

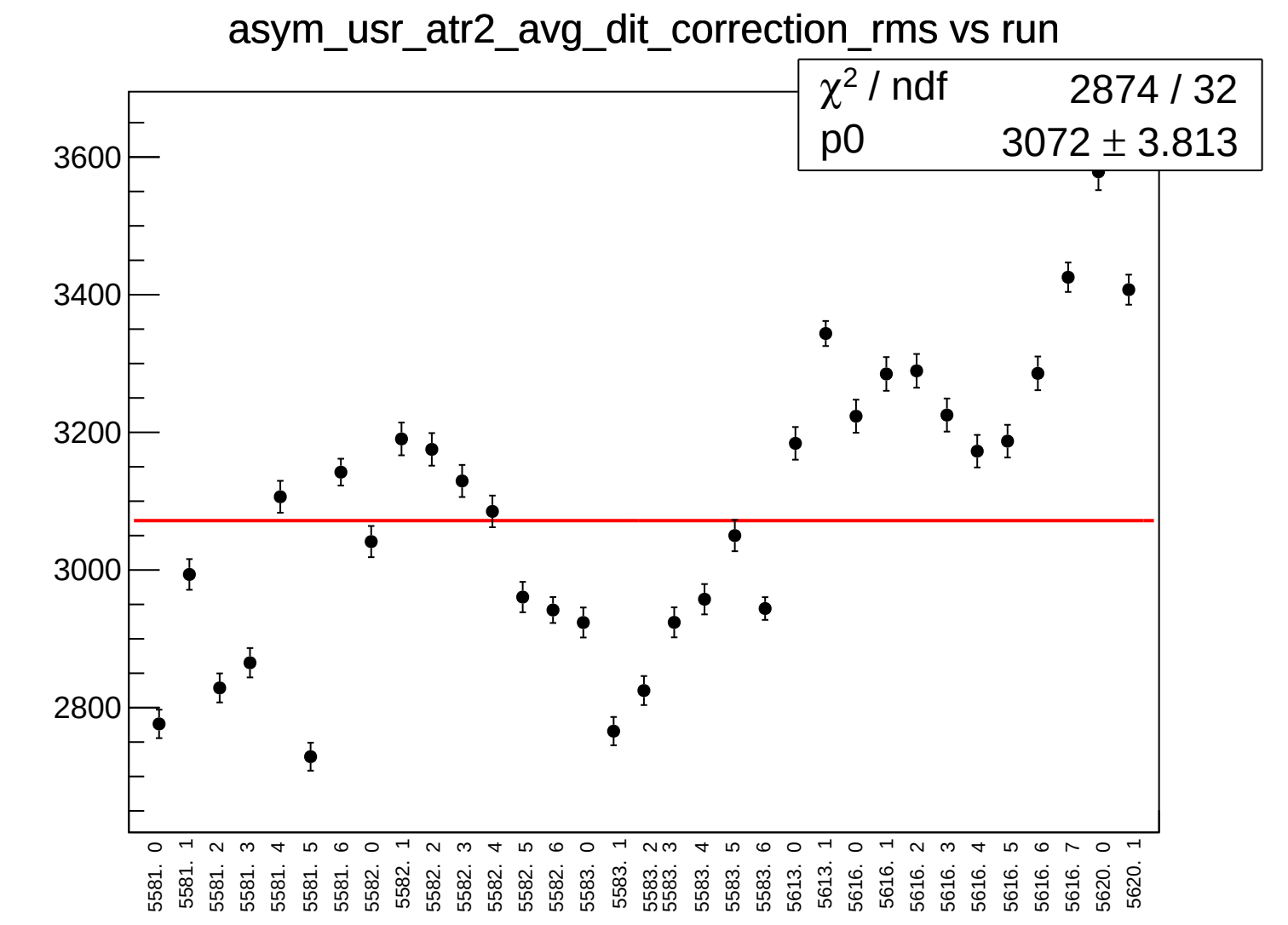

dit_asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 27.63 / 24
p0 −4714 ± 2701
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 18.73
Std Dev 11.91
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

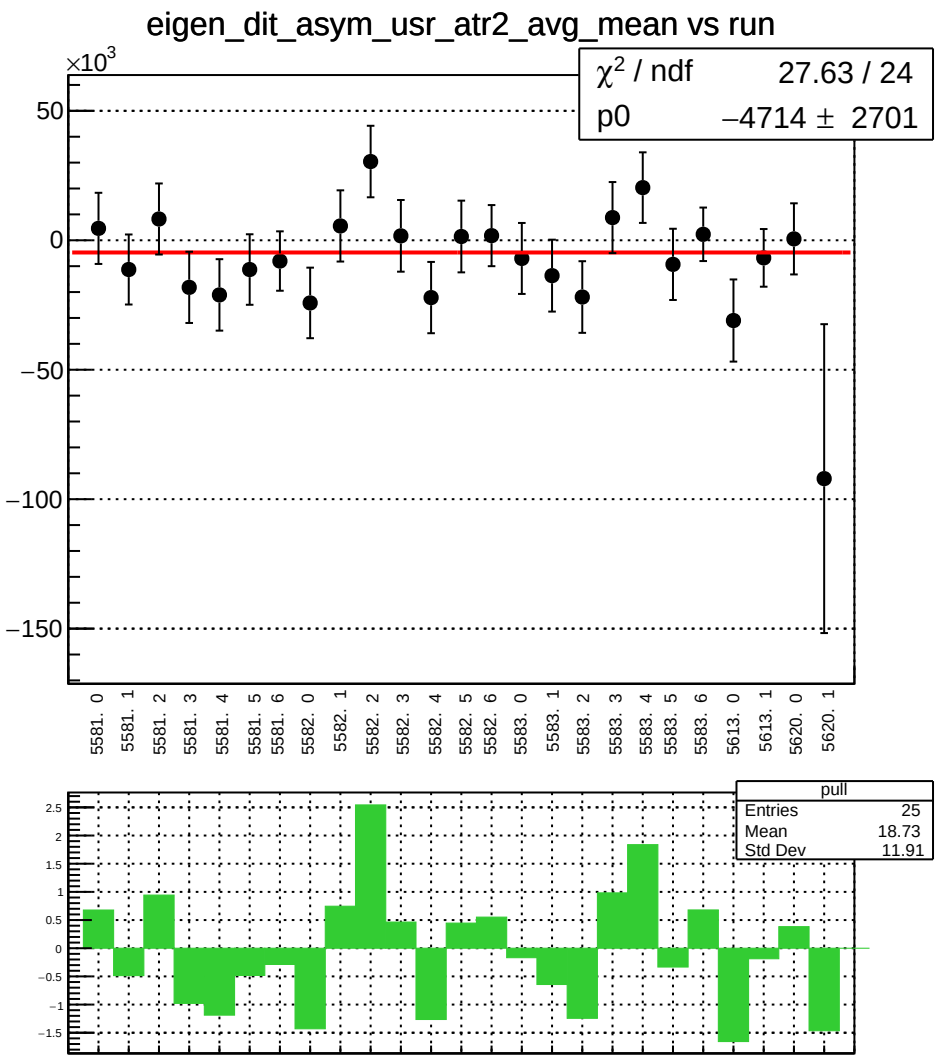

pull1D
Entries 25
Mean −0.06238
Std Dev 1.049
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

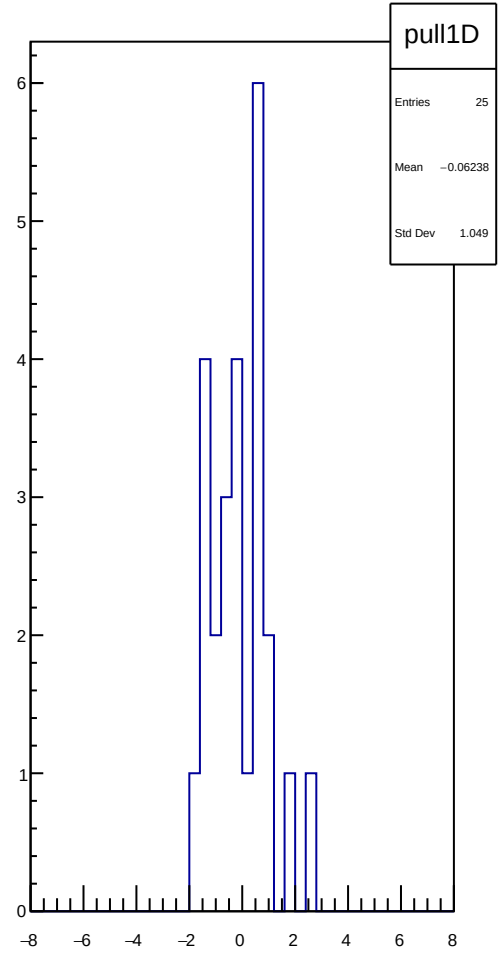

dit_asym_usr_atr2_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.208e+05 / 32
p0 1368 ± 1.877
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

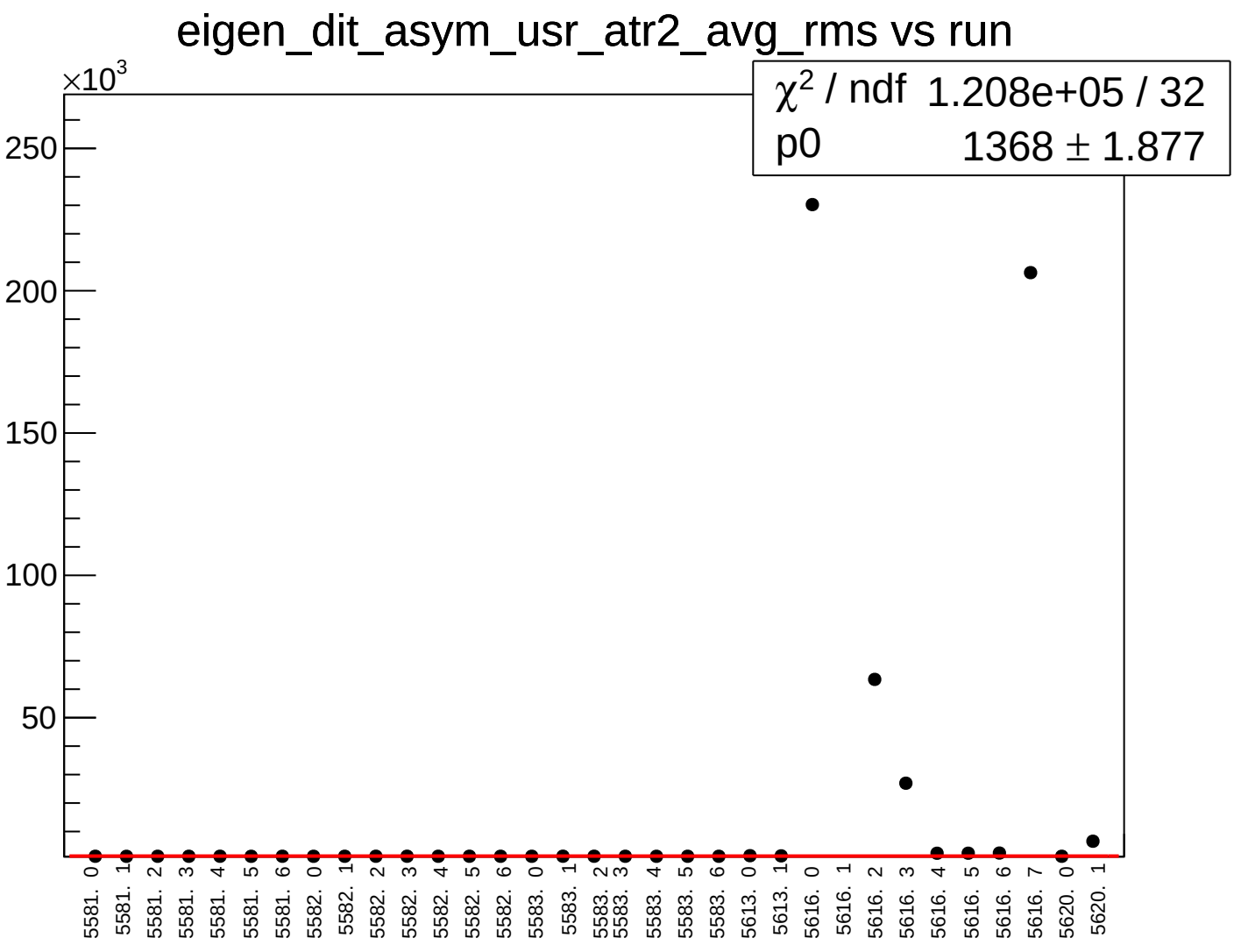

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 35.91 / 32
p0 3457 ± 5392
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 68.29
Std Dev 0
2
1
0
−1
−2

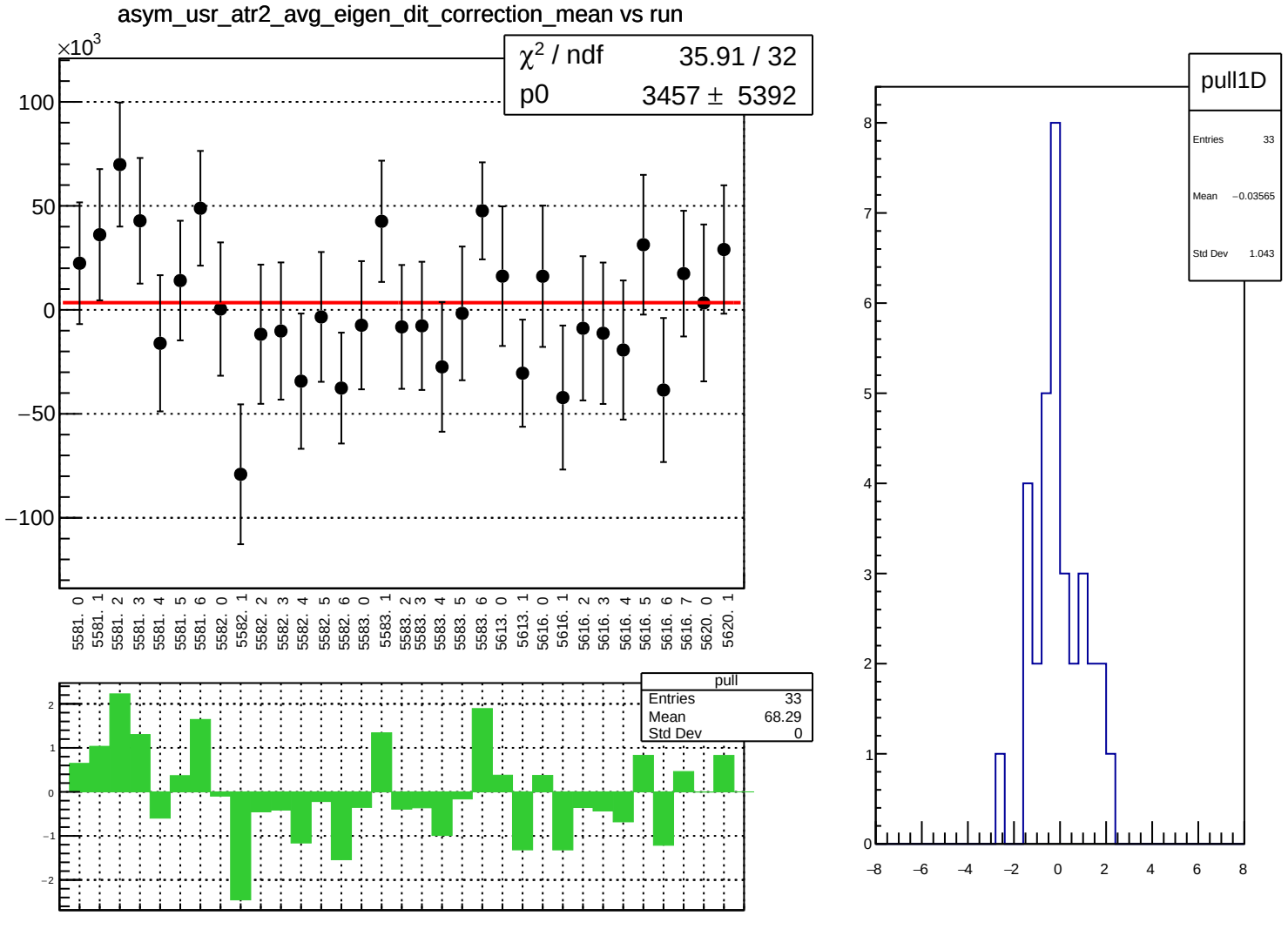

pull1D
Entries 33
Mean −0.03565
Std Dev 1.043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

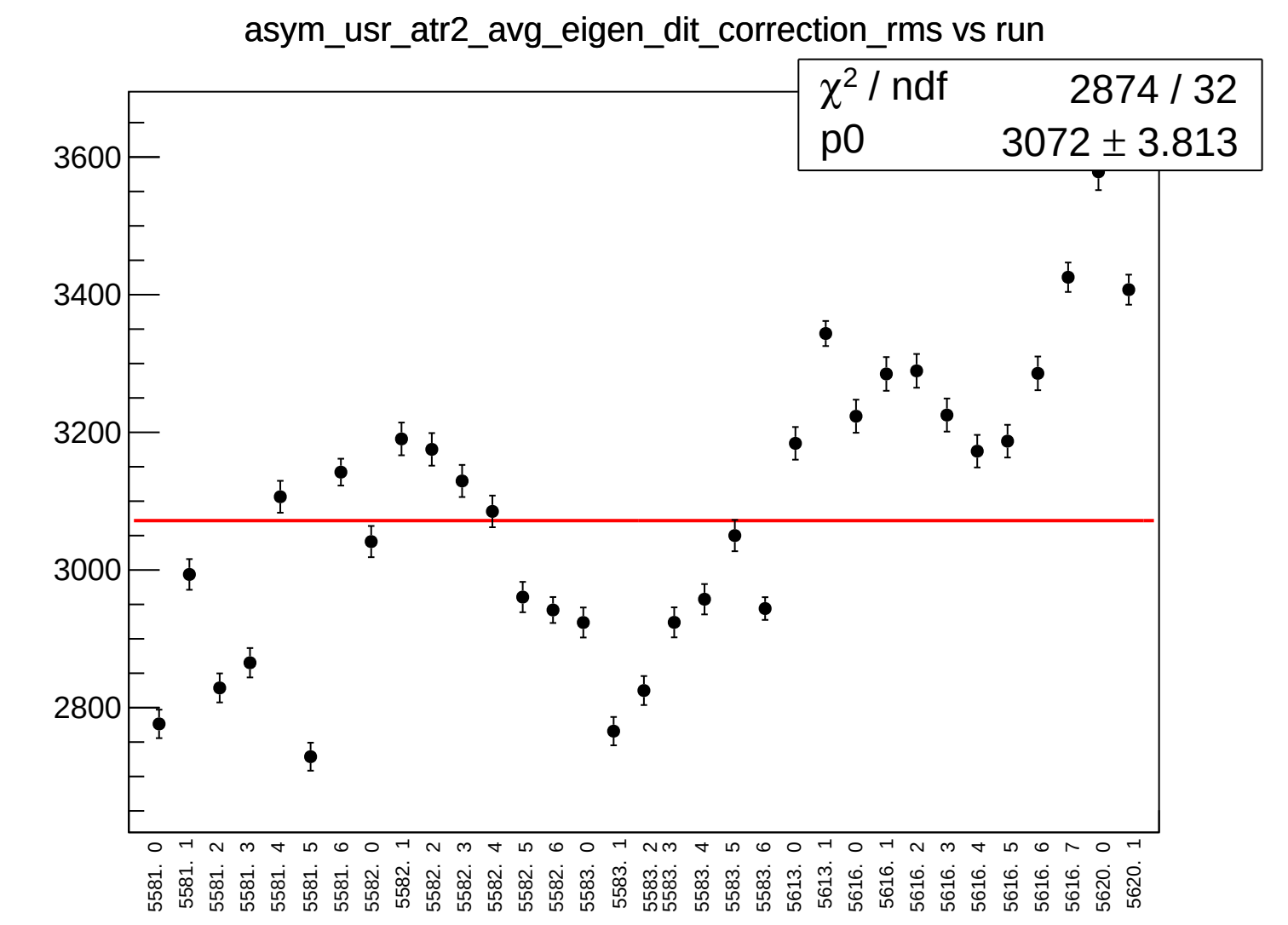

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 2874 / 32
p0 3072 ± 3.813
3600
3400
3200
3000
2800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

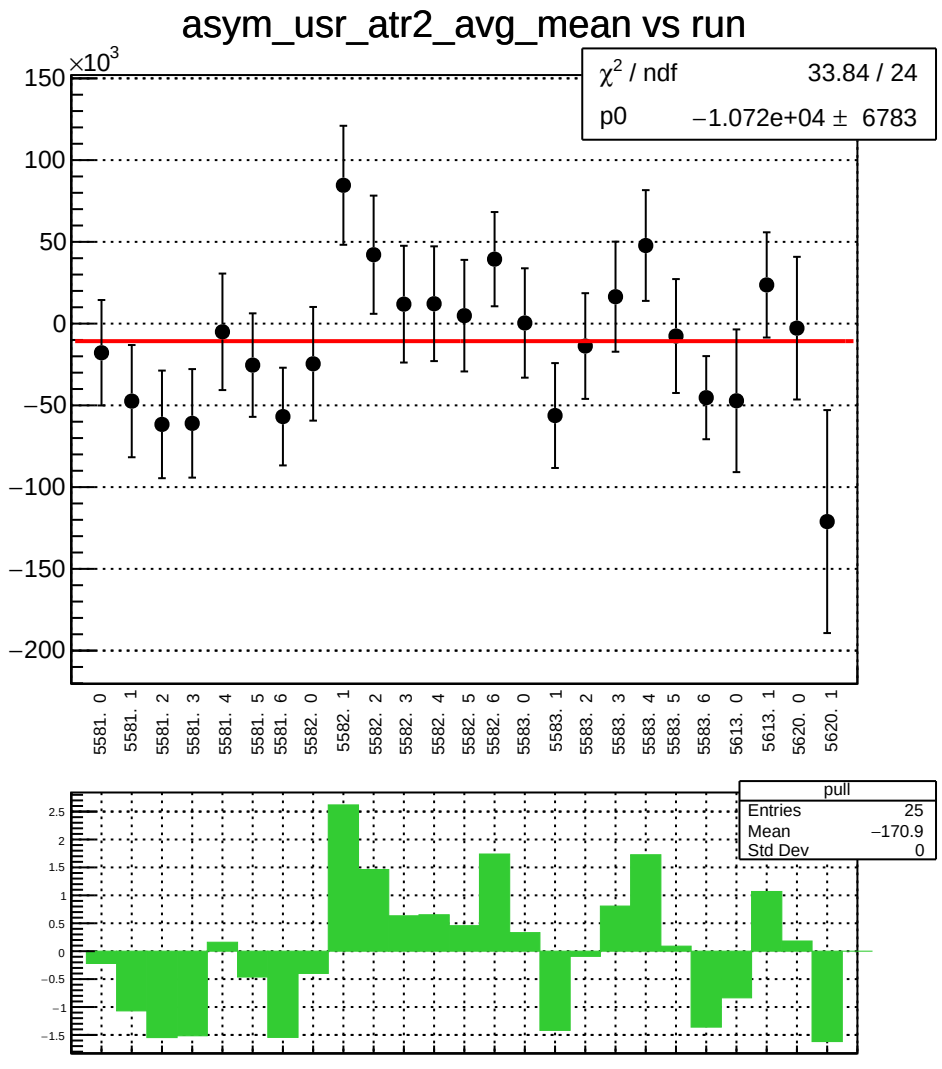

eigen_dit_asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 27.63 / 24
p0 −4714 ± 2701
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean 18.73
Std Dev 11.91
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

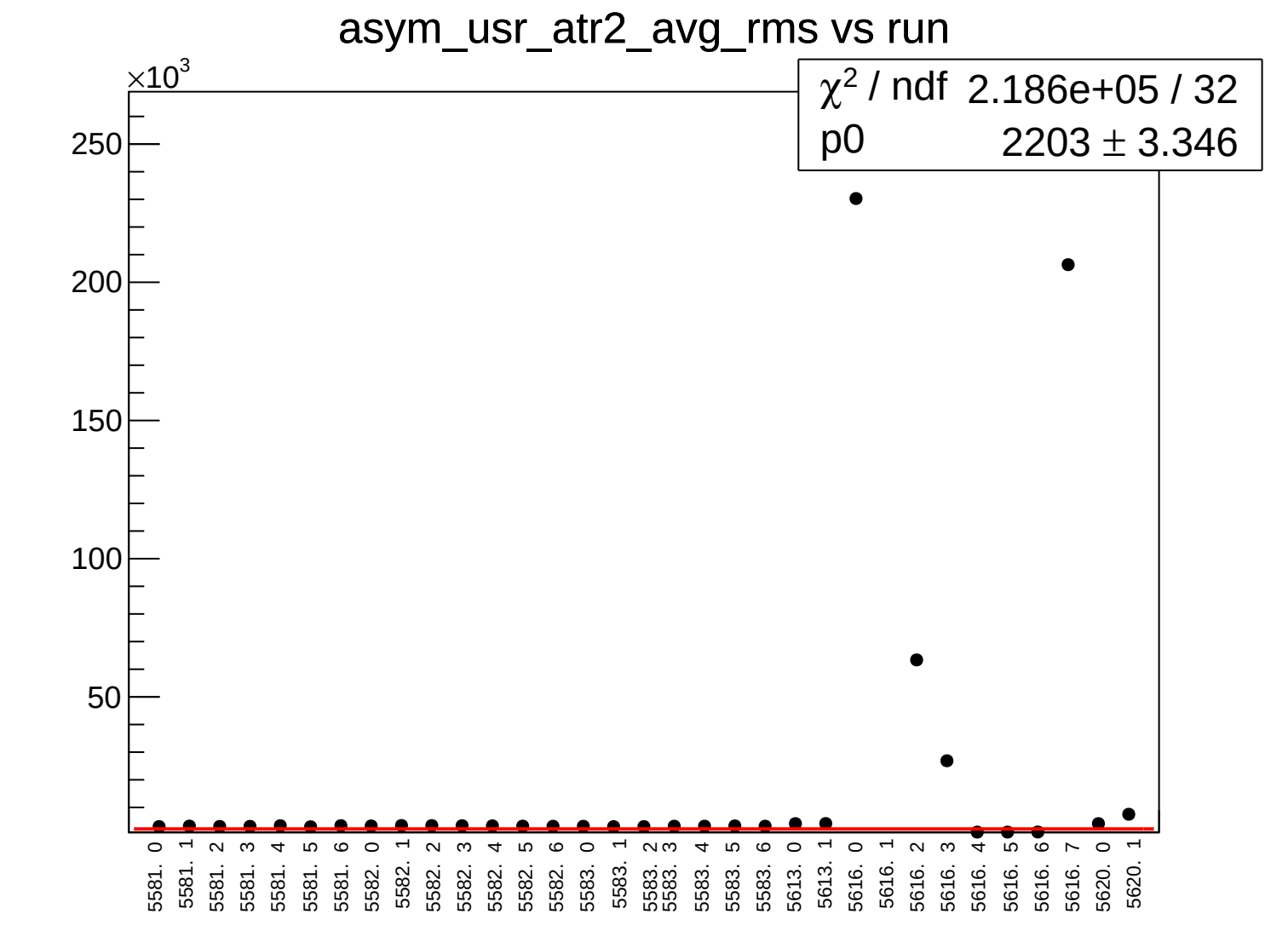

pull1D
Entries 25
Mean −0.06238
Std Dev 1.049
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

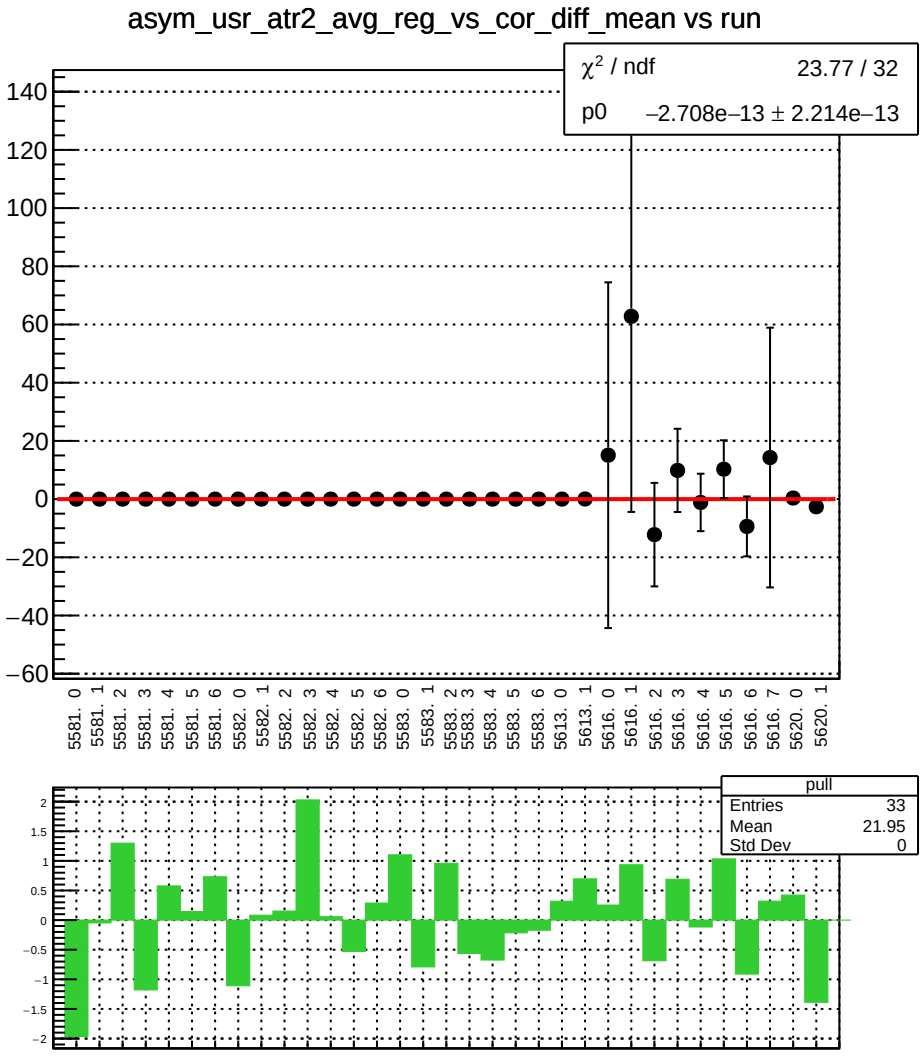

eigen_dit_asym_usr_atr2_avg_rms vs run
×10^3
χ² / ndf 1.208e+05 / 32
p0 1368 ± 1.877
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

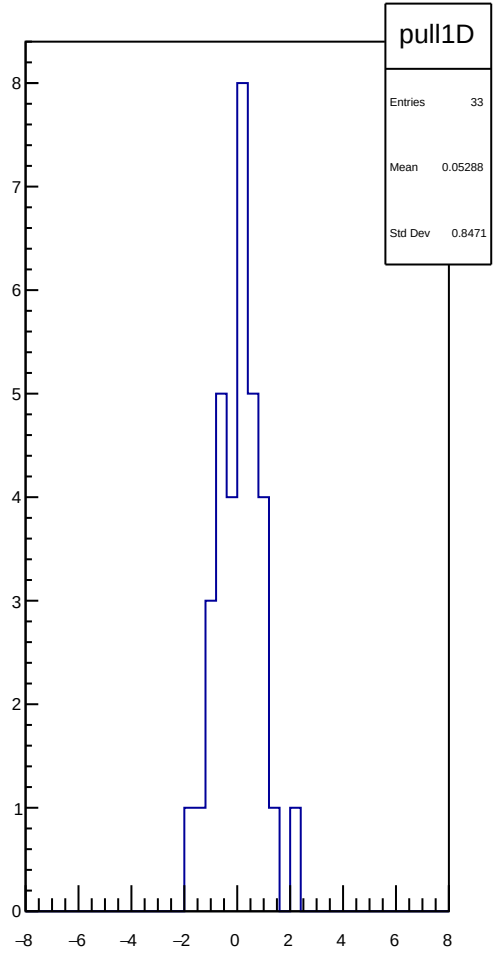

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 35.91 / 32
p0 3457 ± 5392
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 68.29
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.03565
Std Dev 1.043
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

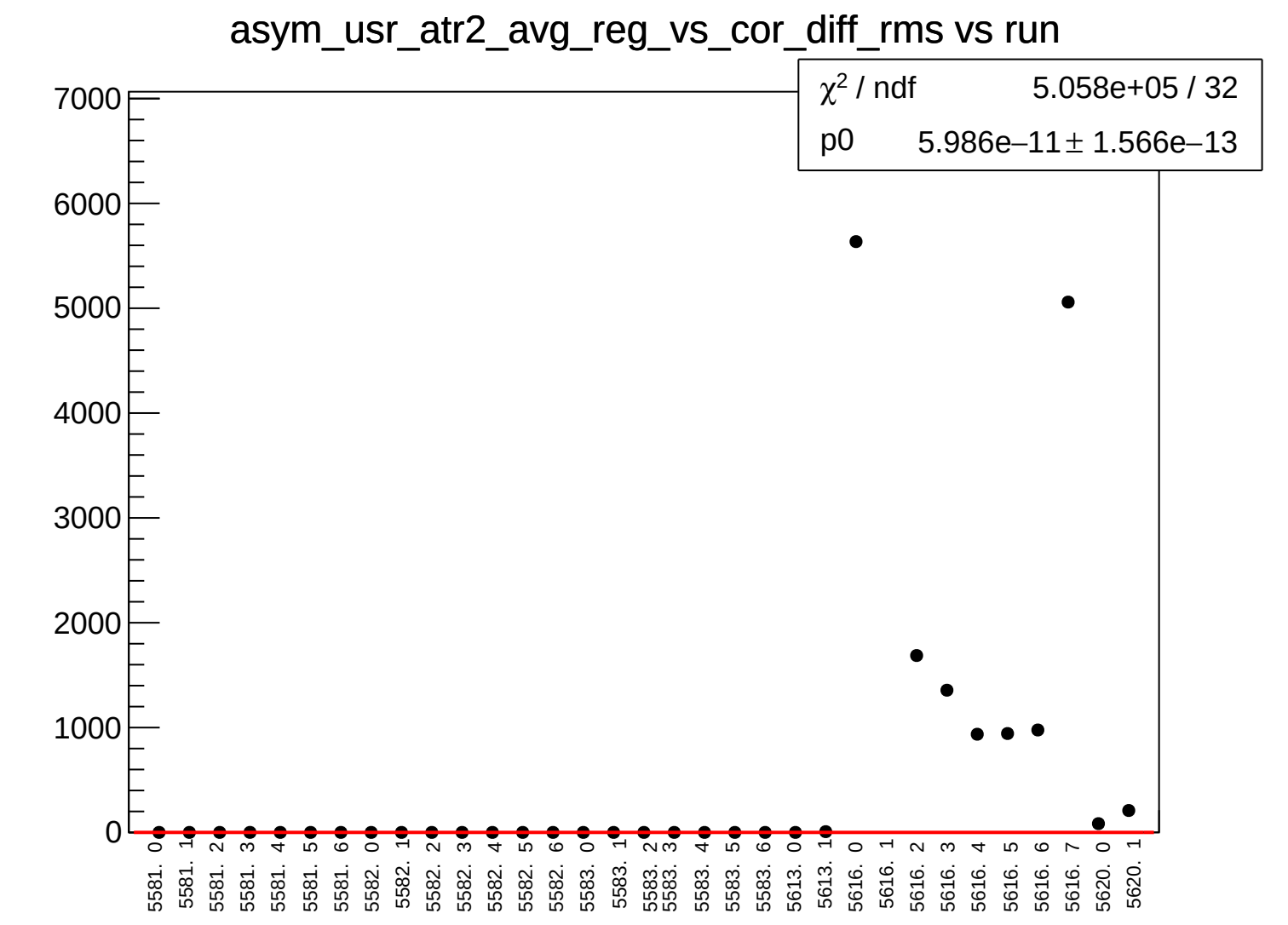

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2874 / 32
p0 3072 ± 3.813
3600
3400
3200
3000
2800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

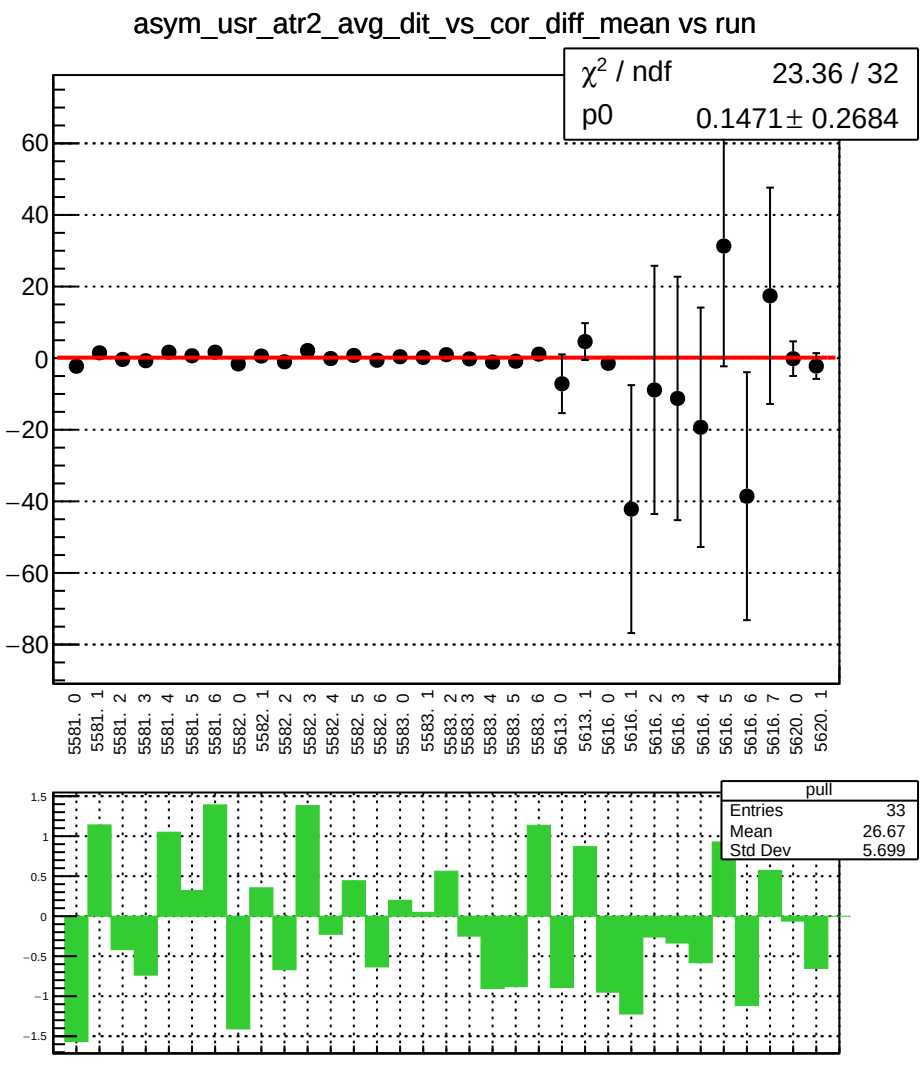

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 33.84 / 24
p0 −1.072e+04 ± 6783
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −170.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 25
Mean −0.006024
Std Dev 1.163
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

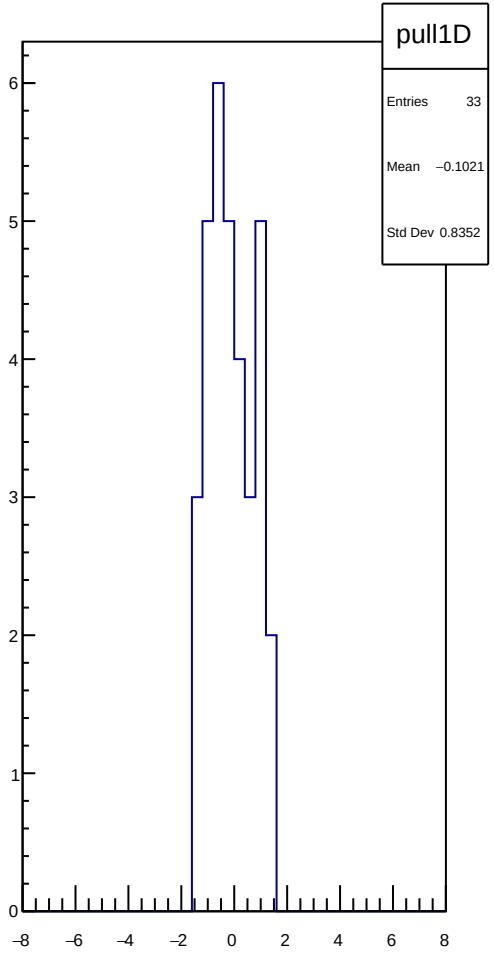

asym_usr_atr2_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 2.186e+05 / 32
p0 2203 ± 3.346
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

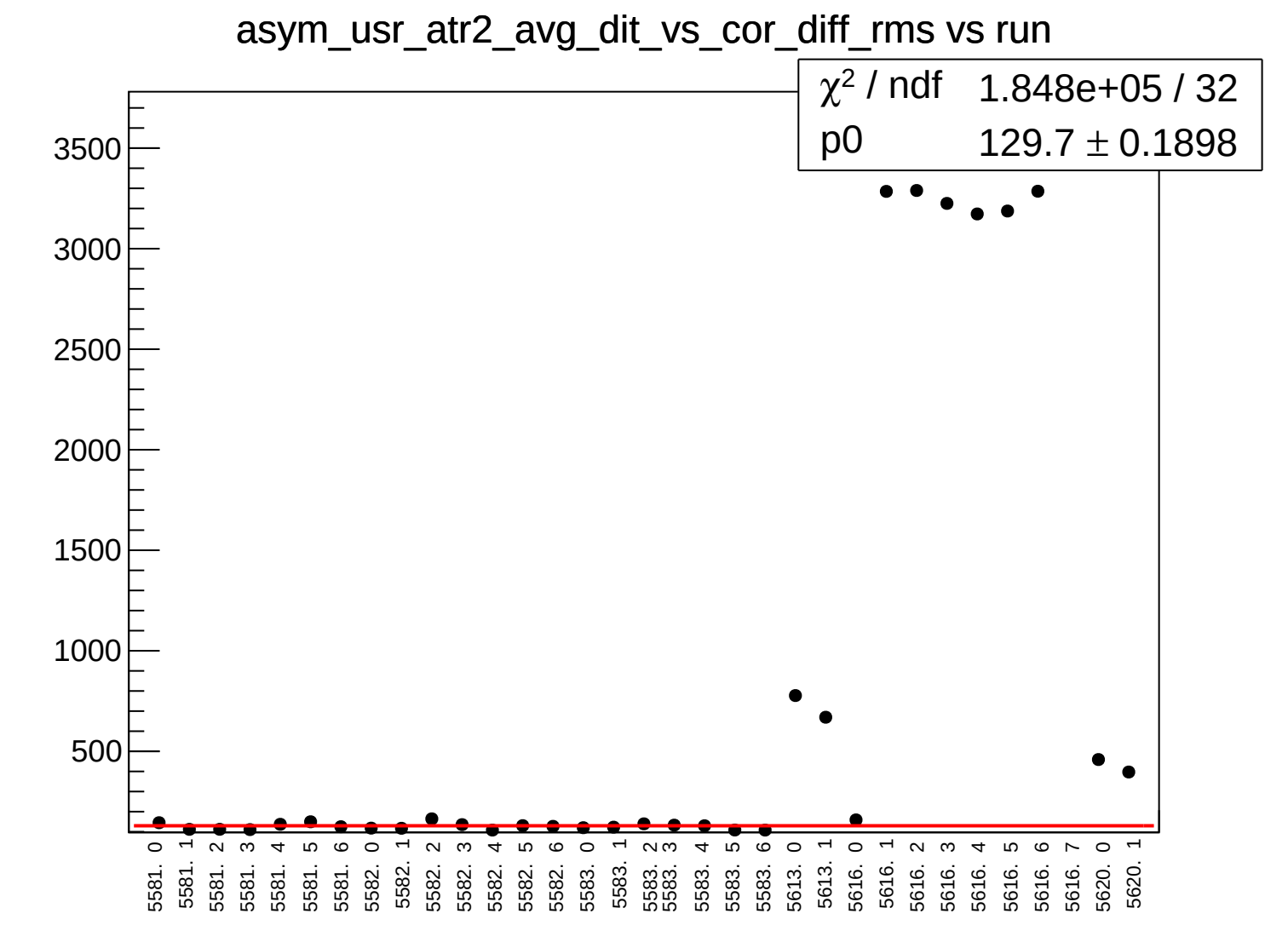

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 23.77 / 32
p0 −2.708e−13 ± 2.214e−13
pull
Entries 33
Mean 21.95
Std Dev 0

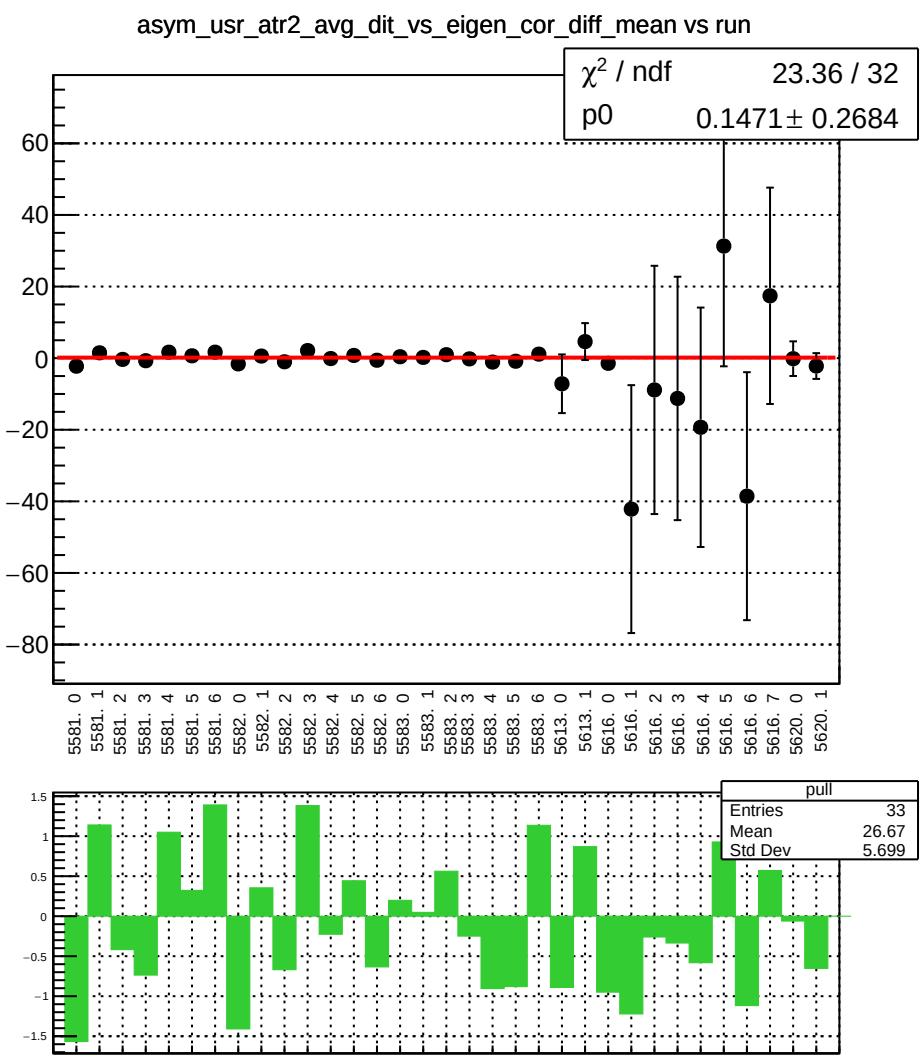

pull1D
Entries 33
Mean 0.05288
Std Dev 0.8471

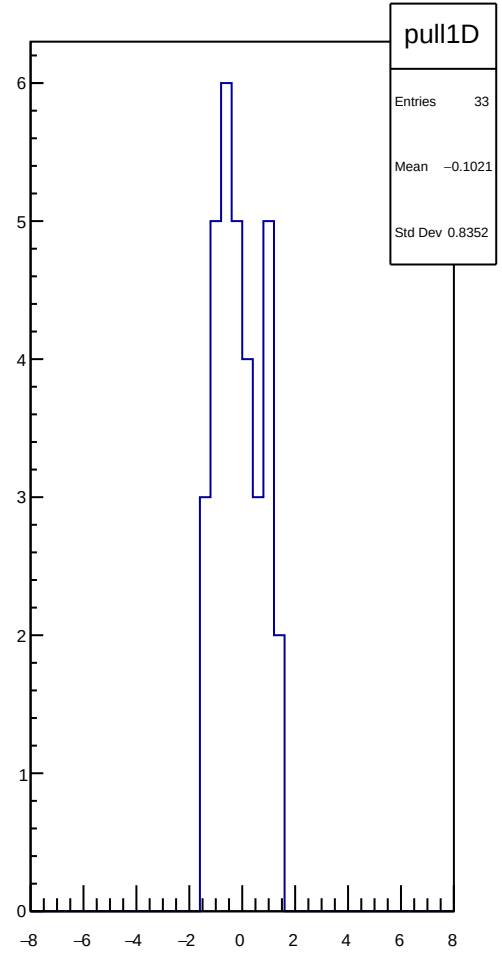

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.058e+05 / 32
p0 5.986e−11 ± 1.566e−13
7000
6000
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

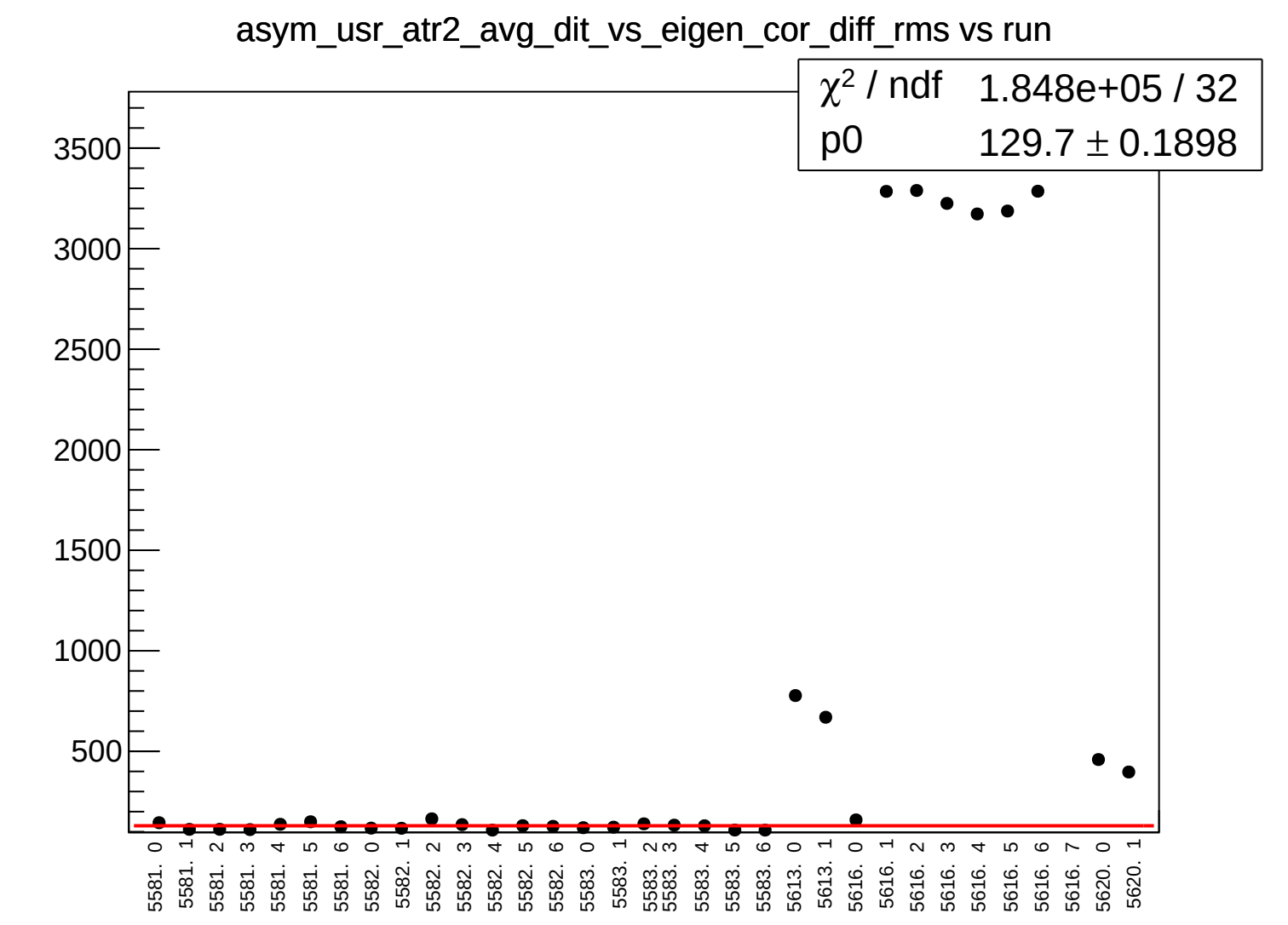

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 23.36 / 32
p0 0.1471± 0.2684
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.67
Std Dev 5.699
1.5
1
0.5
0
−0.5
−1
−1.5

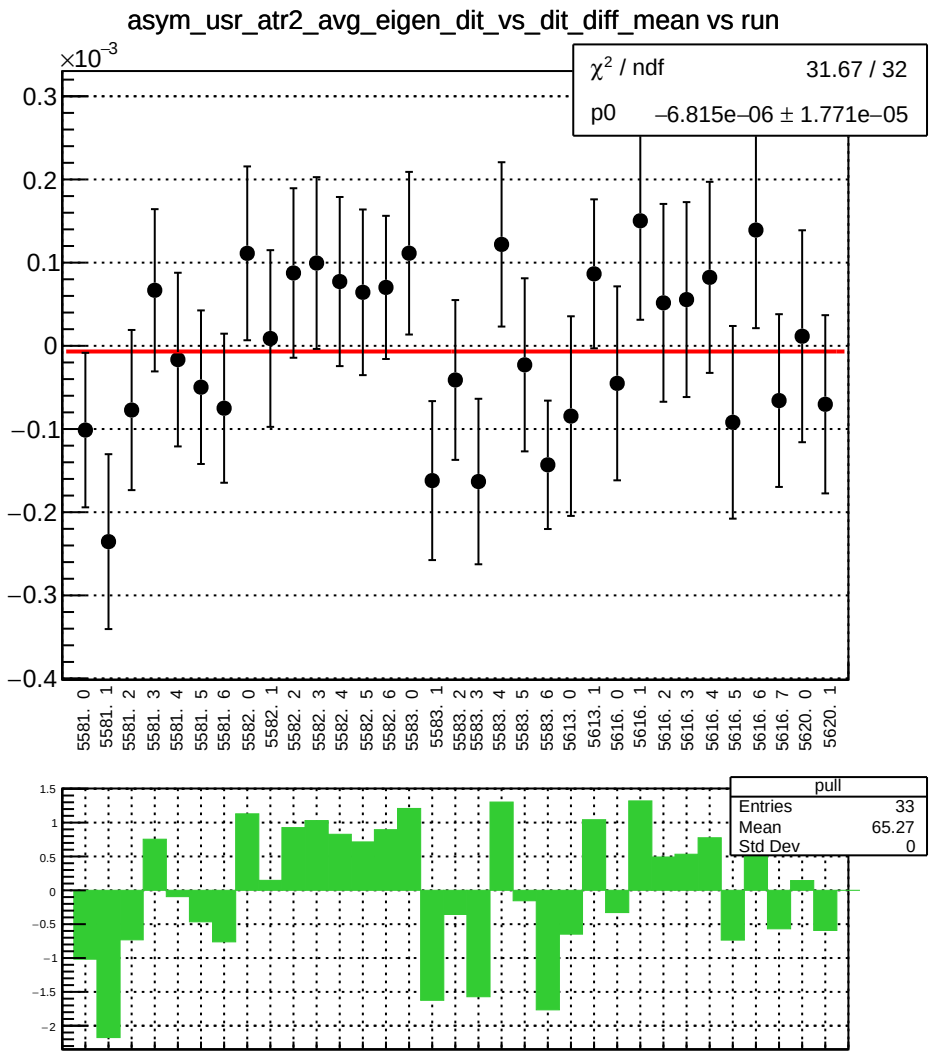

pull1D
Entries 33
Mean −0.1021
Std Dev 0.8352
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

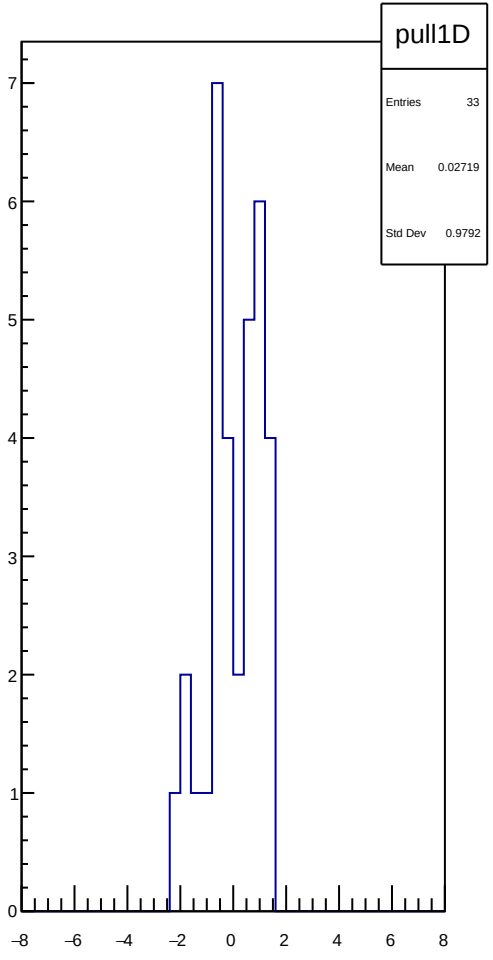

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.848e+05 / 32
p0 129.7 ± 0.1898
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

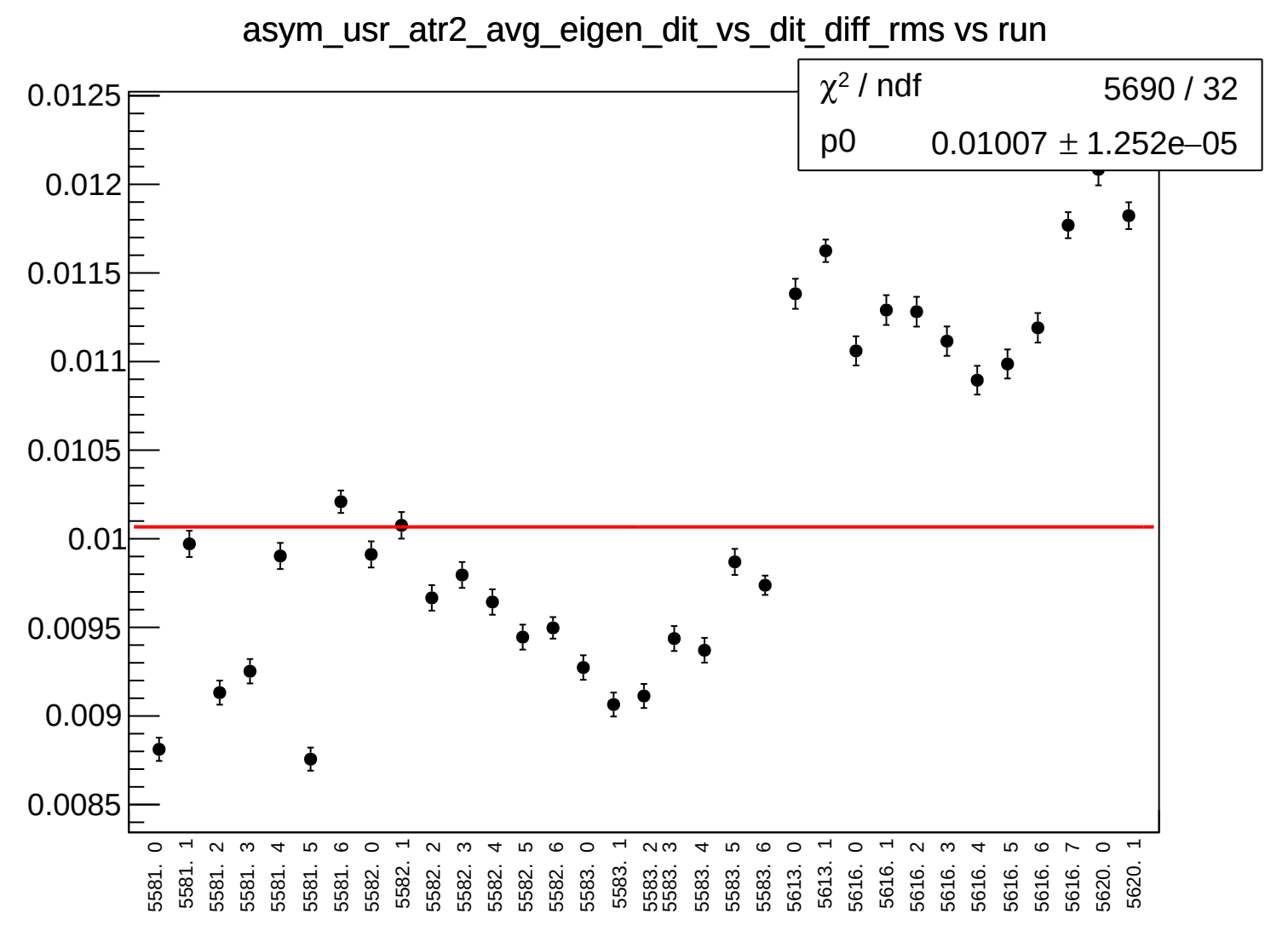

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.36 / 32
p0 0.1471± 0.2684
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.67
Std Dev 5.699
1.5
1
0.5
0
−0.5
−1
−1.5

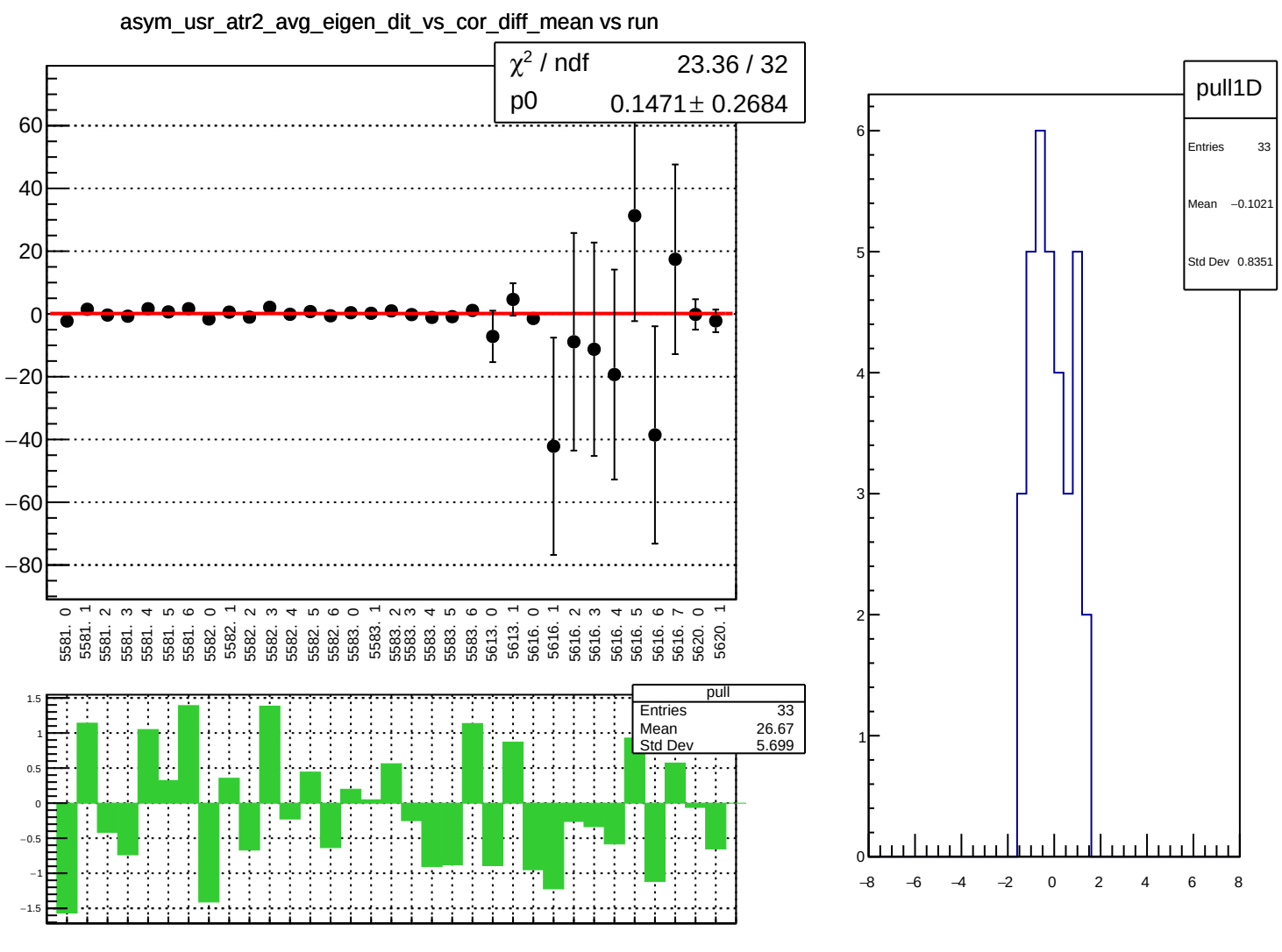

pull1D
Entries 33
Mean −0.1021
Std Dev 0.8352
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

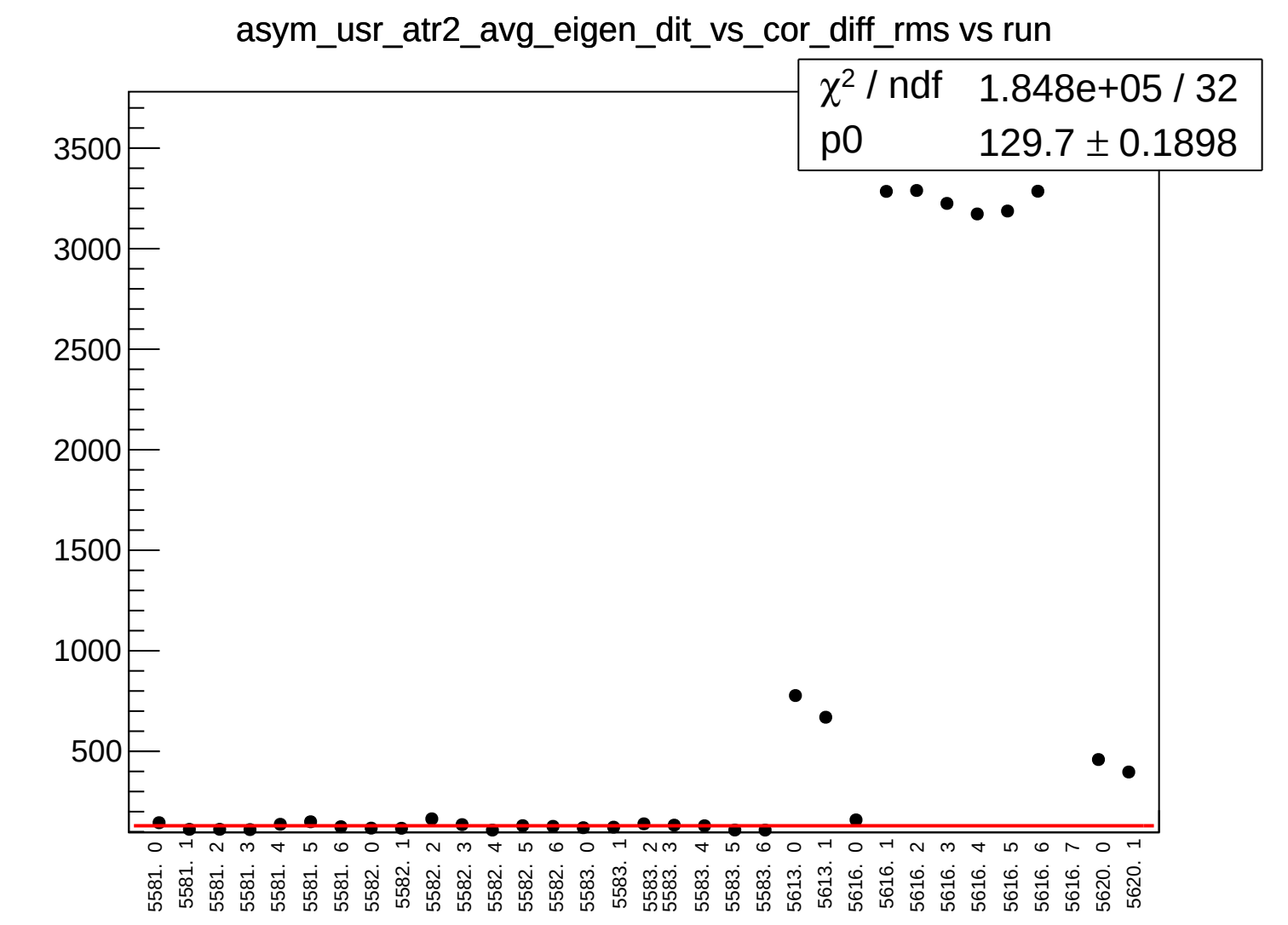

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.848e+05 / 32
p0 129.7 ± 0.1898
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

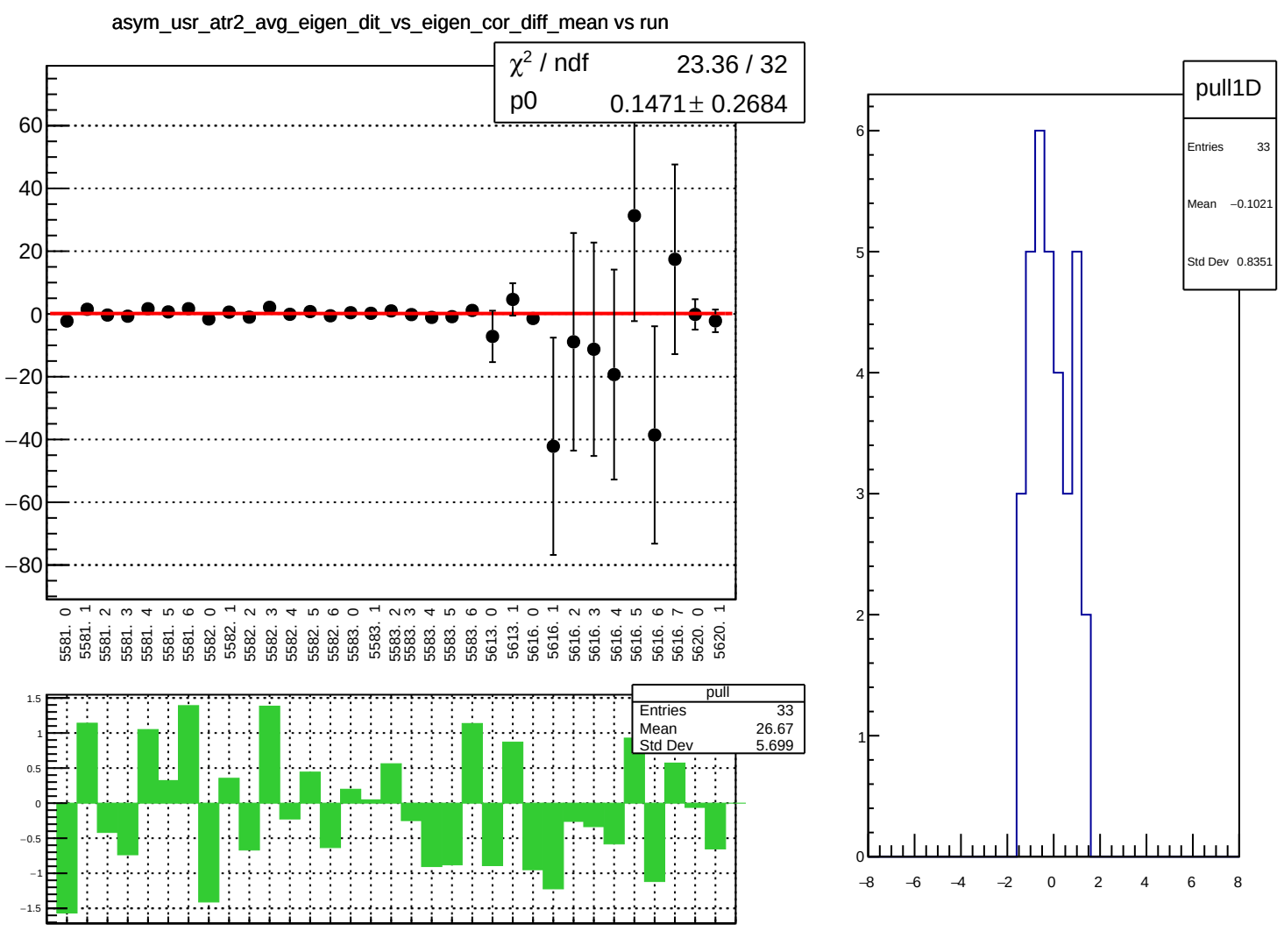

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.67 / 32
p0 −6.815e−06 ± 1.771e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 65.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

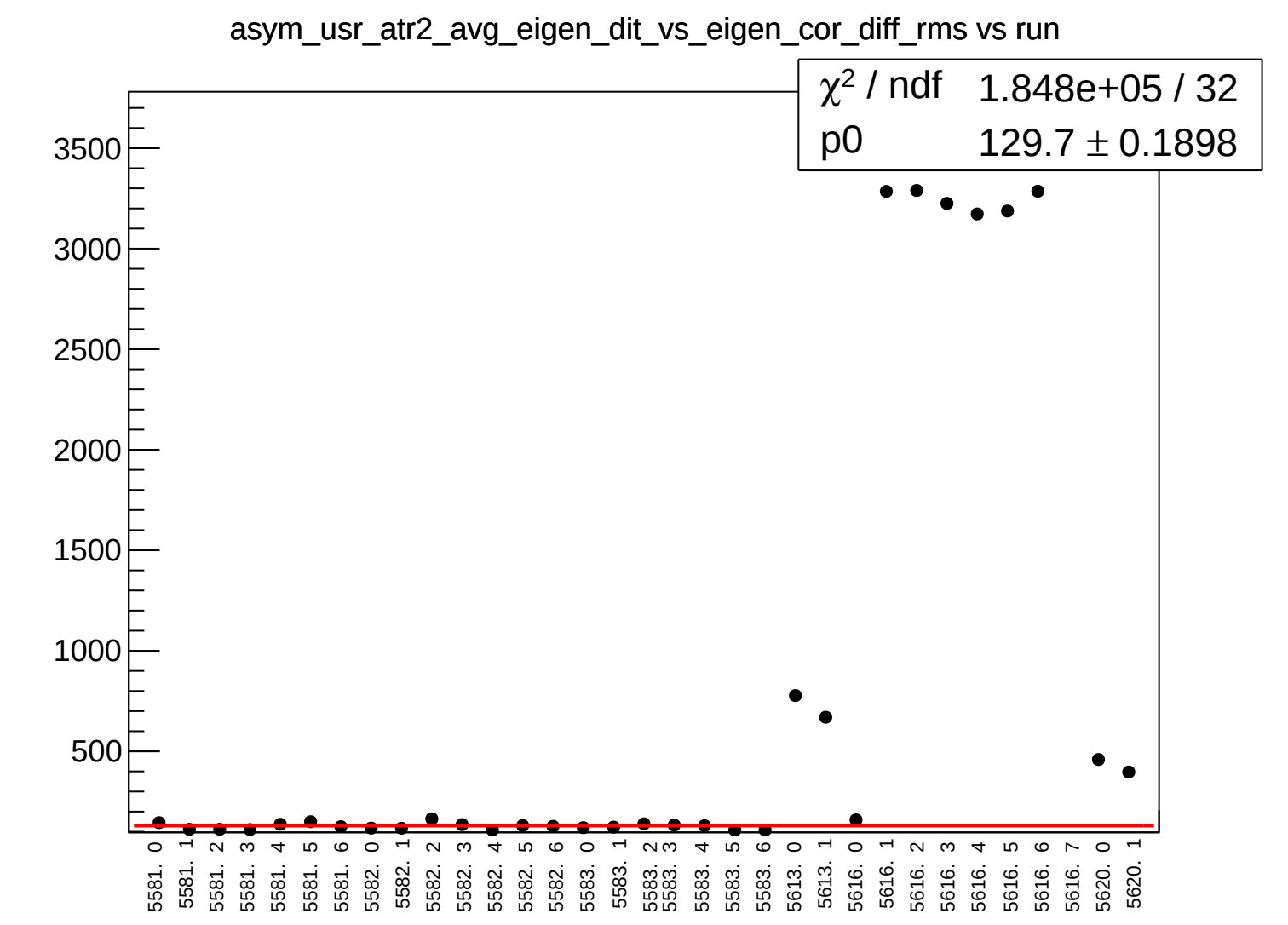

pull1D
Entries 33
Mean 0.02719
Std Dev 0.9792
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

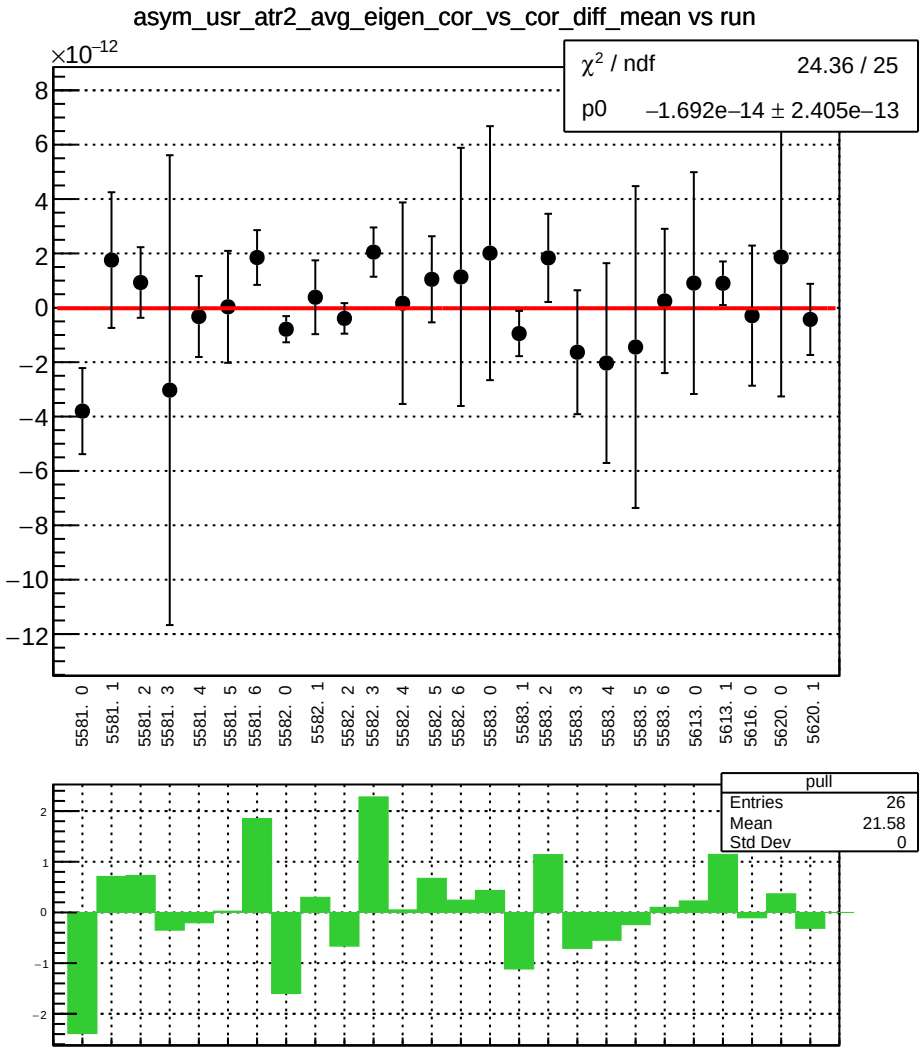

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5690 / 32
p0 0.01007 ± 1.252e−05
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

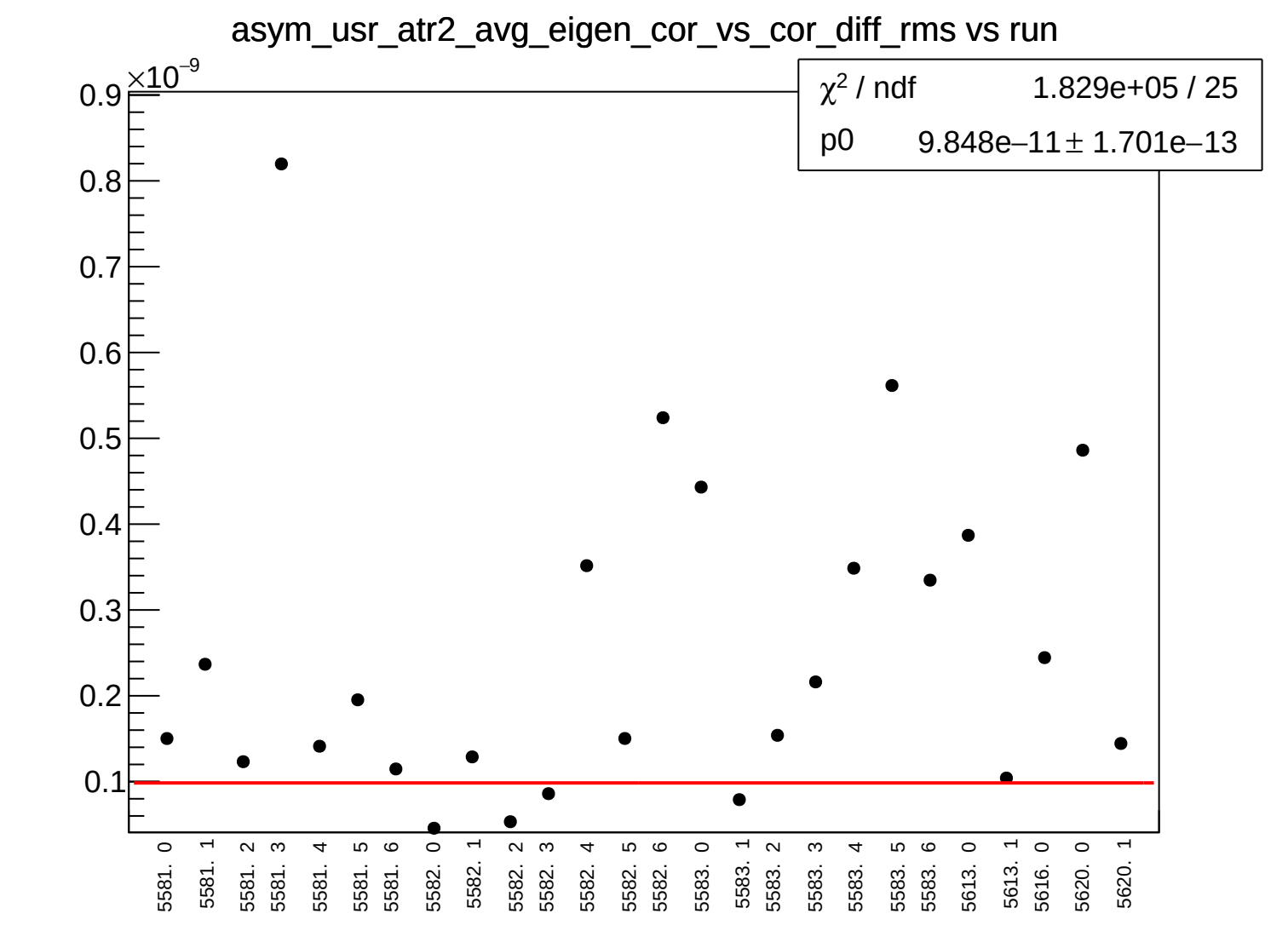

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.36 / 32
p0 0.1471± 0.2684
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.67
Std Dev 5.699
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1021
Std Dev 0.8351
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

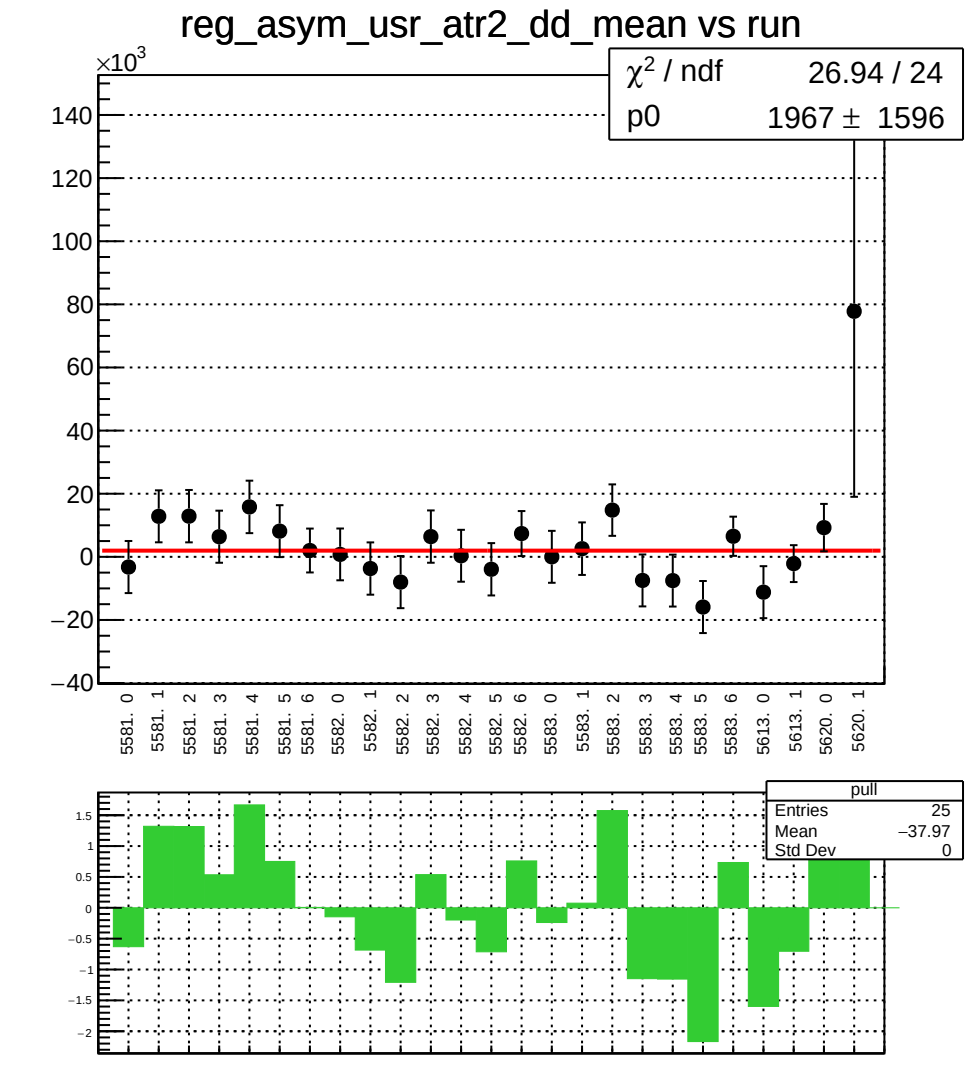

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.848e+05 / 32
p0 129.7 ± 0.1898
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

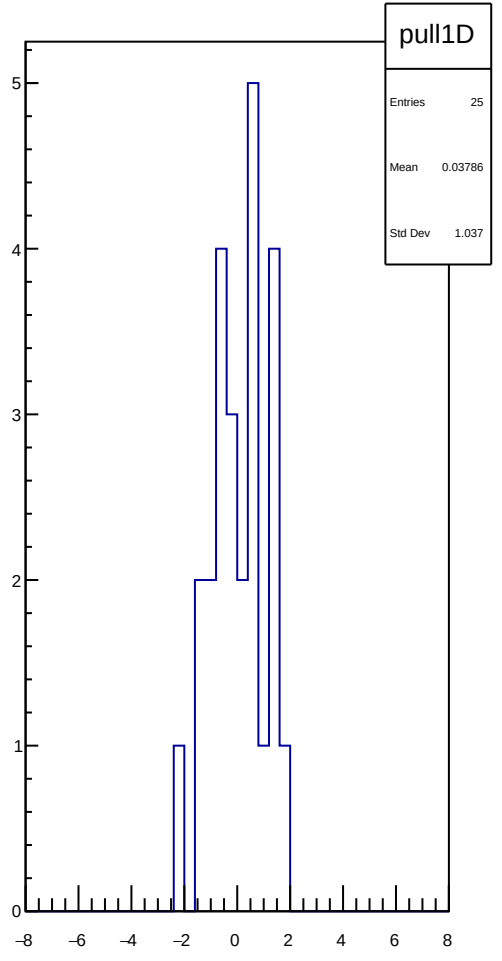

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.36 / 32
p0 0.1471± 0.2684
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.67
Std Dev 5.699
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1021
Std Dev 0.8351
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

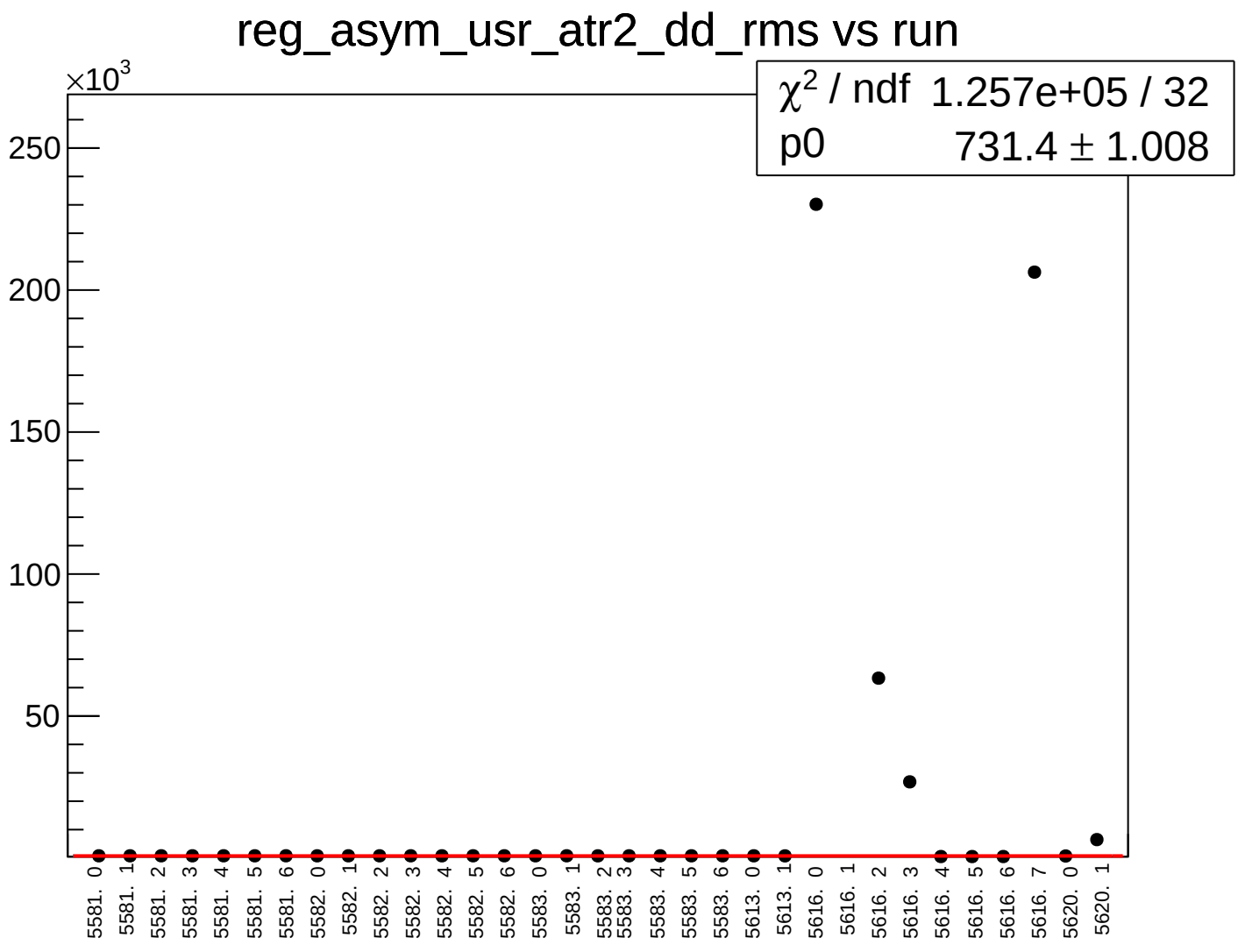

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.848e+05 / 32
p0 129.7 ± 0.1898
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

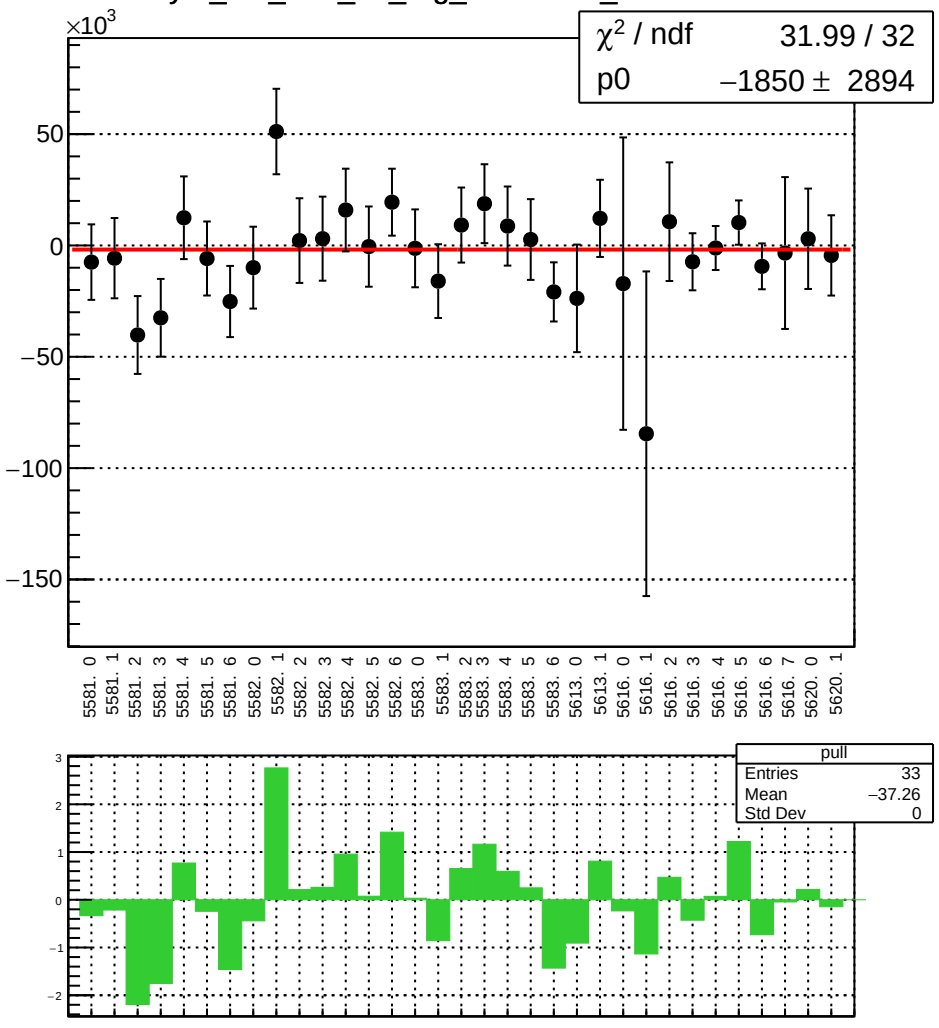

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.36 / 25
p0 −1.692e−14 ± 2.405e−13
8
6
4
2
0
−2
−4
−6
−8
−10
−12
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 21.58
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.07842
Std Dev 0.9648
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

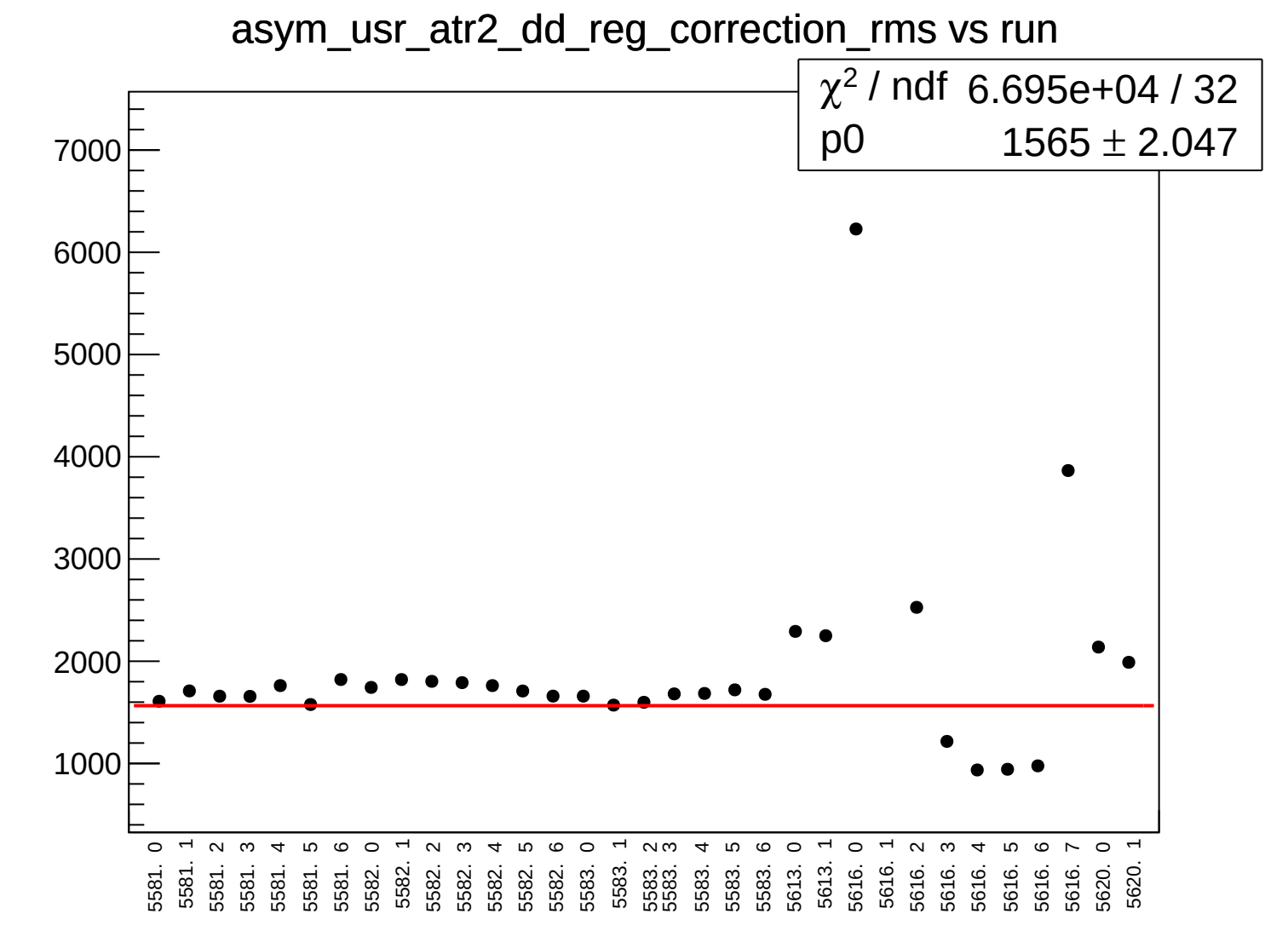

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.829e+05 / 25
p0 9.848e−11 ± 1.701e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

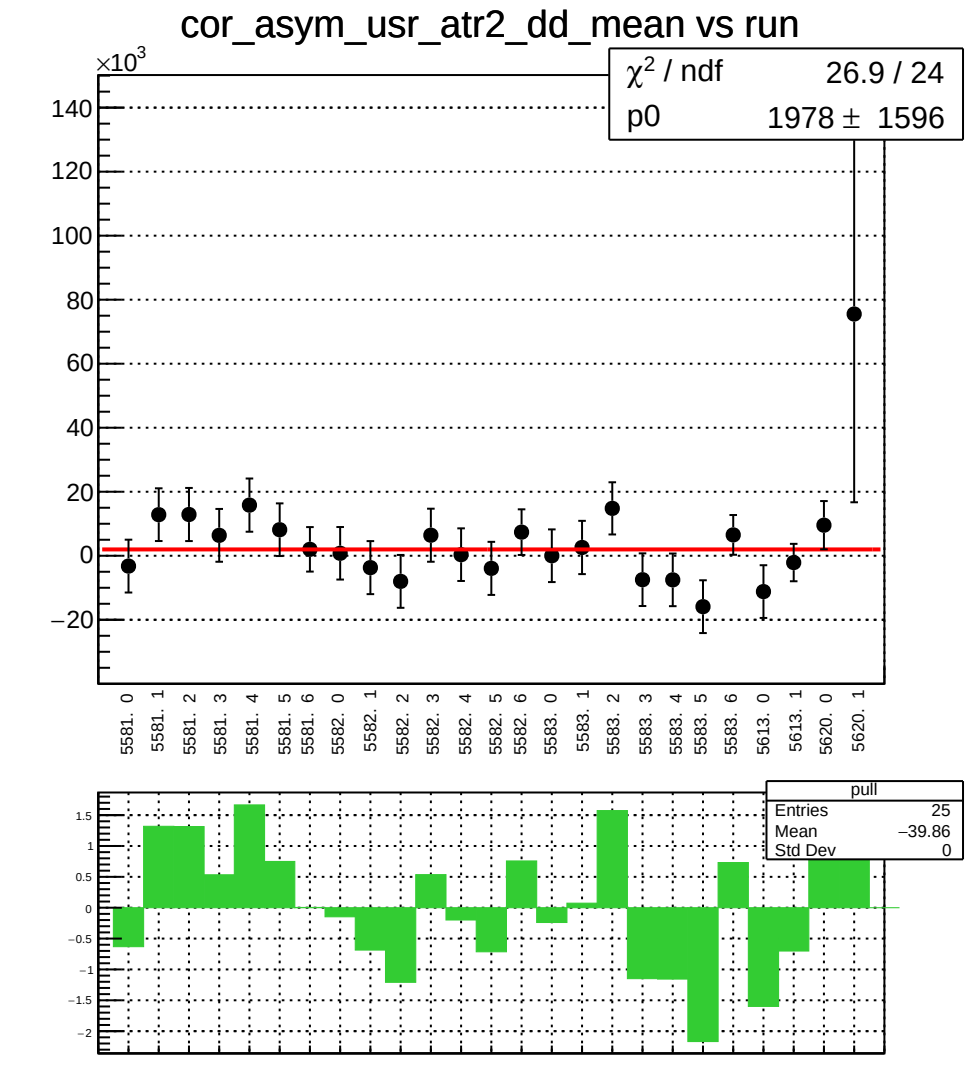

reg_asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 26.94 / 24
p0 1967 ± 1596
140
120
100
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −37.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

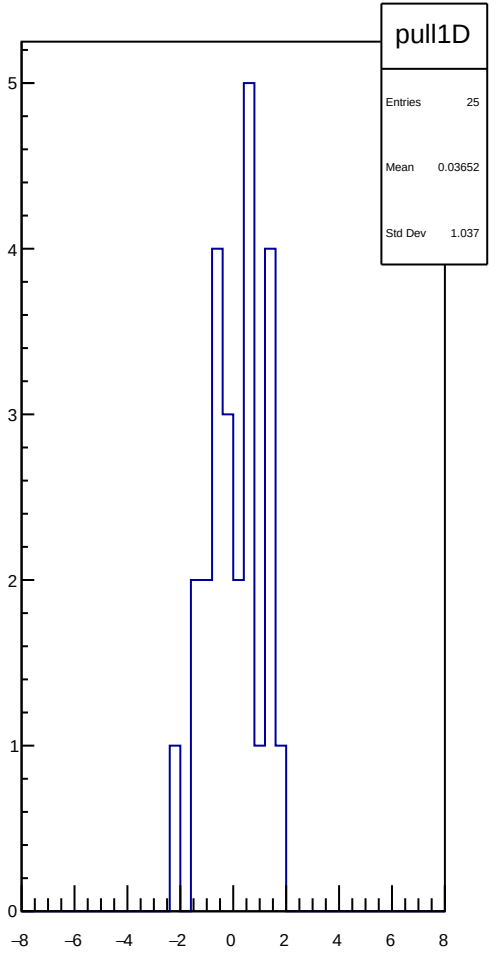

pull1D
Entries 25
Mean 0.03786
Std Dev 1.037
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

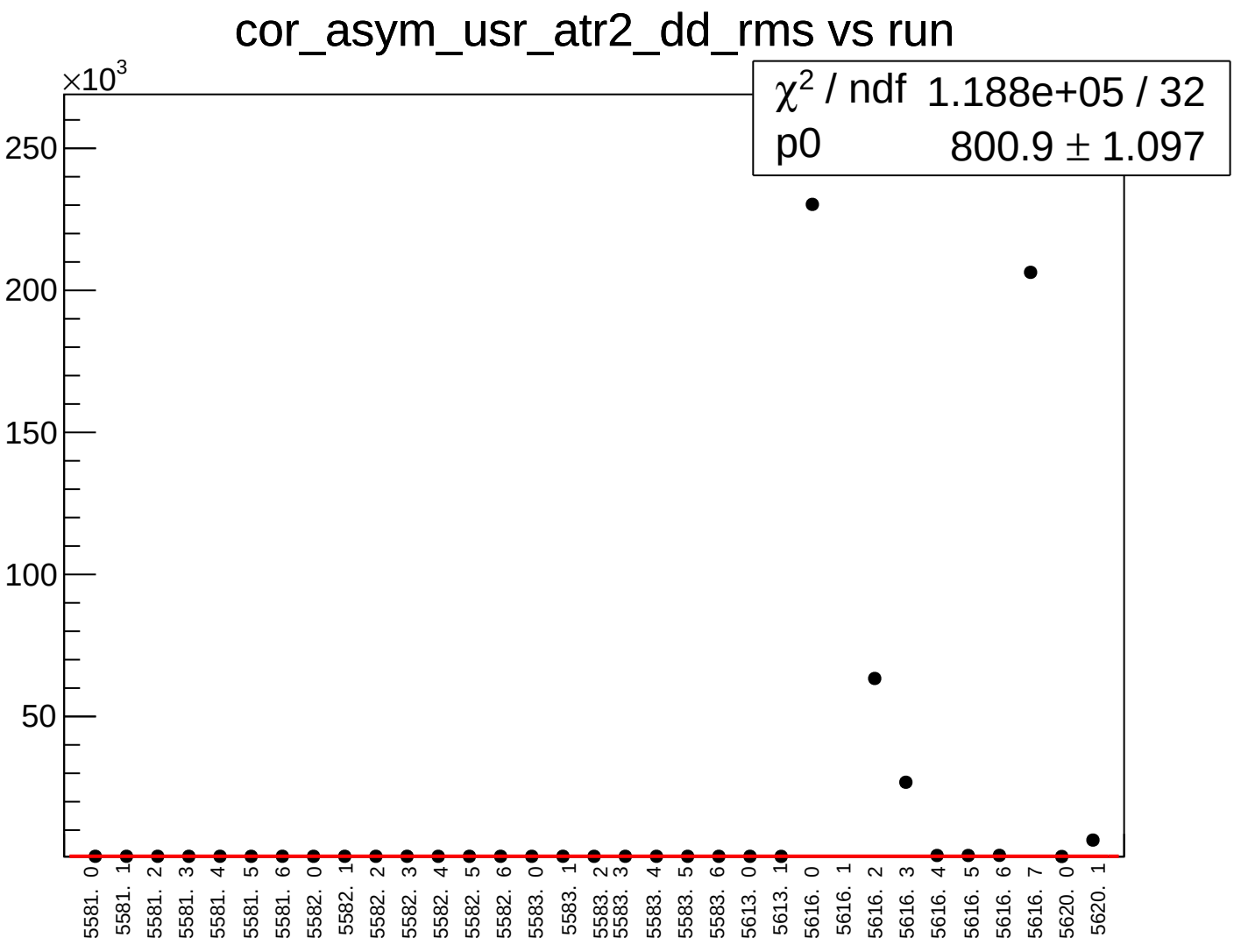

reg_asym_usr_atr2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.257e+05 / 32
p0 731.4 ± 1.008
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

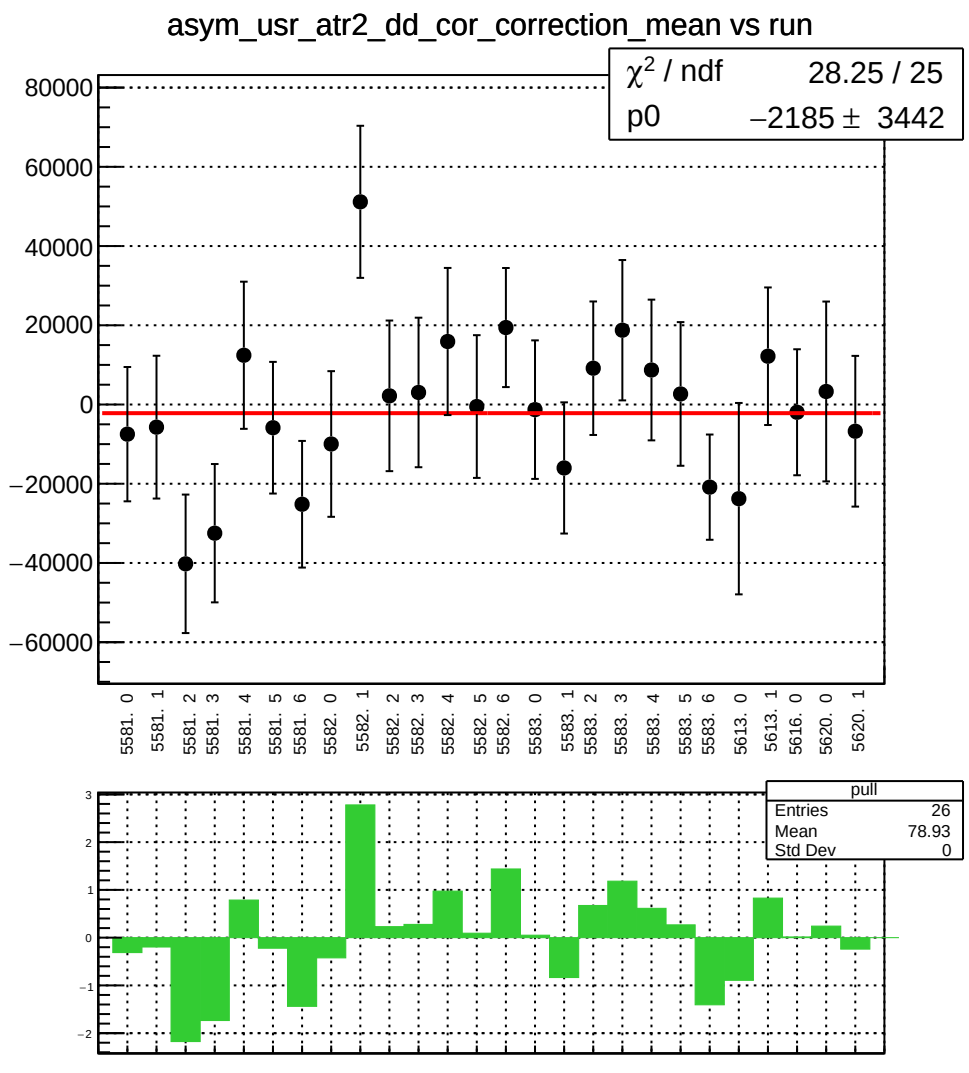

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 31.99 / 32
p0 −1850 ± 2894
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −37.26
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.01889
Std Dev 0.9843
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

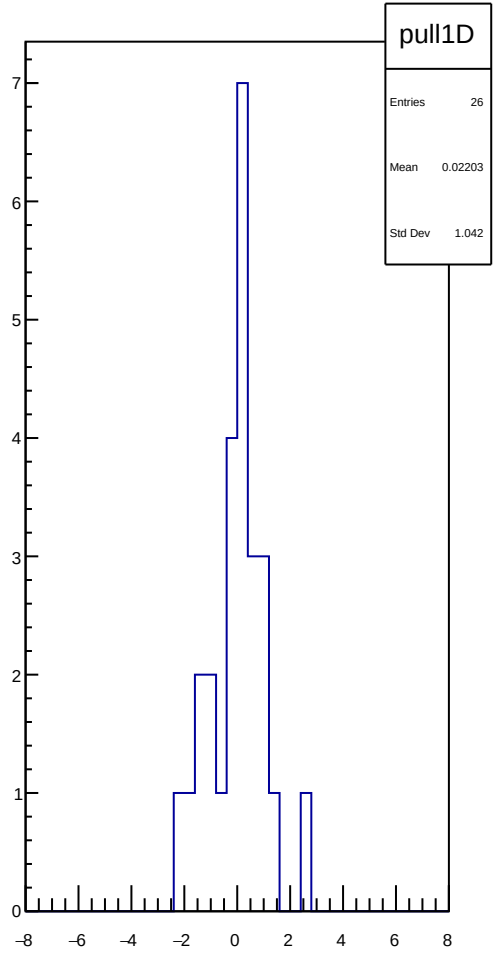

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 6.695e+04 / 32
p0 1565 ± 2.047
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

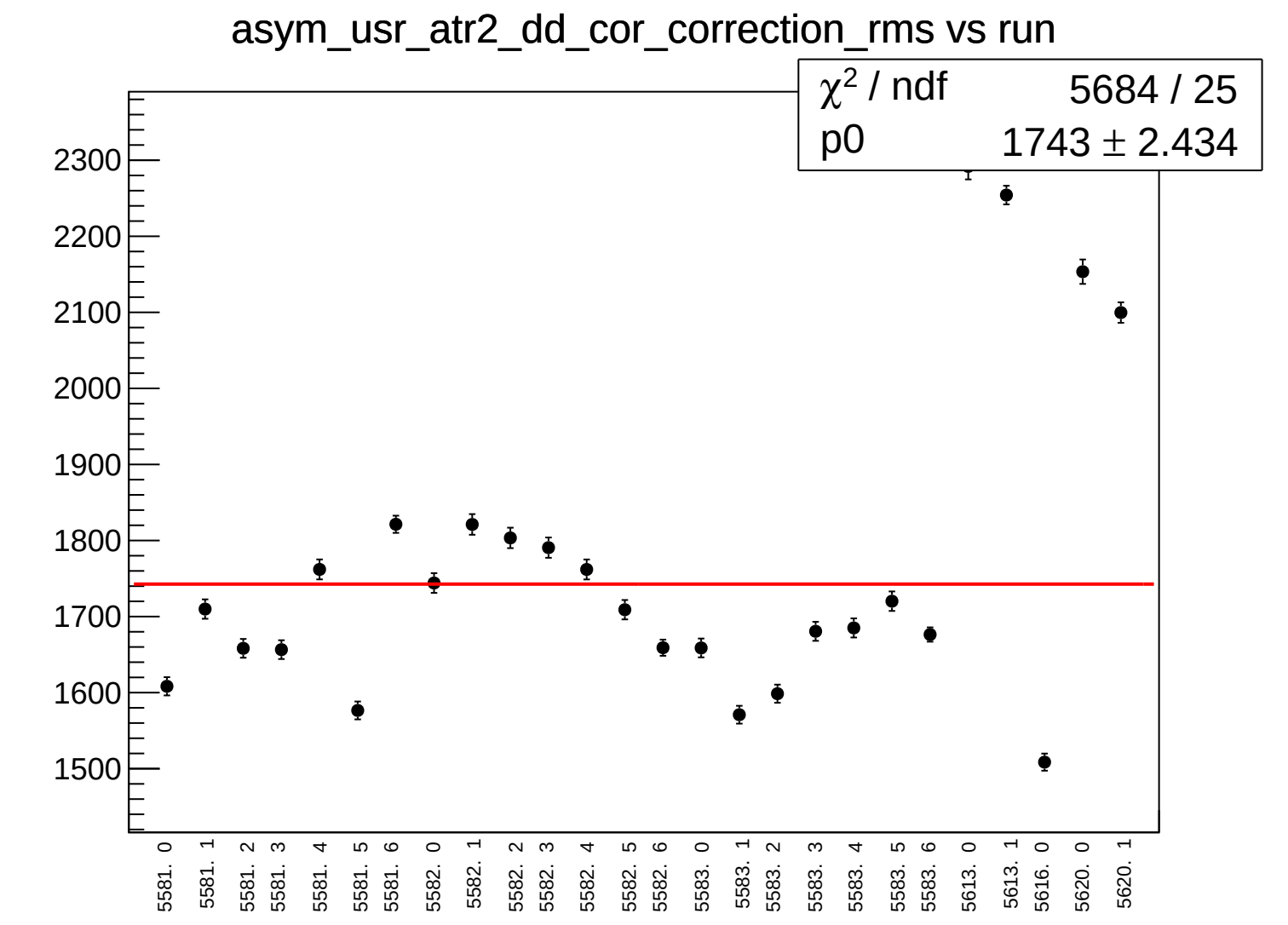

cor_asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 26.9 / 24
p0 1978 ± 1596
140
120
100
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −39.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

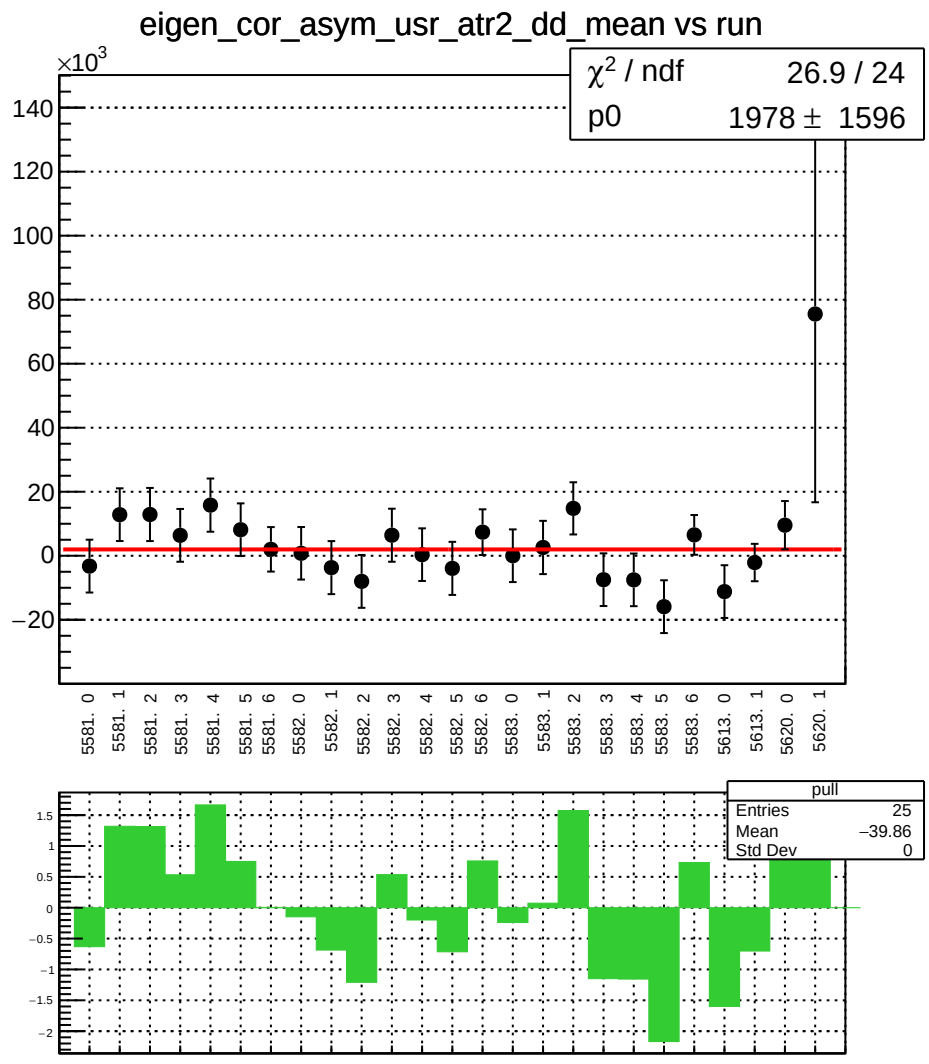

pull1D
Entries 25
Mean 0.03652
Std Dev 1.037
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

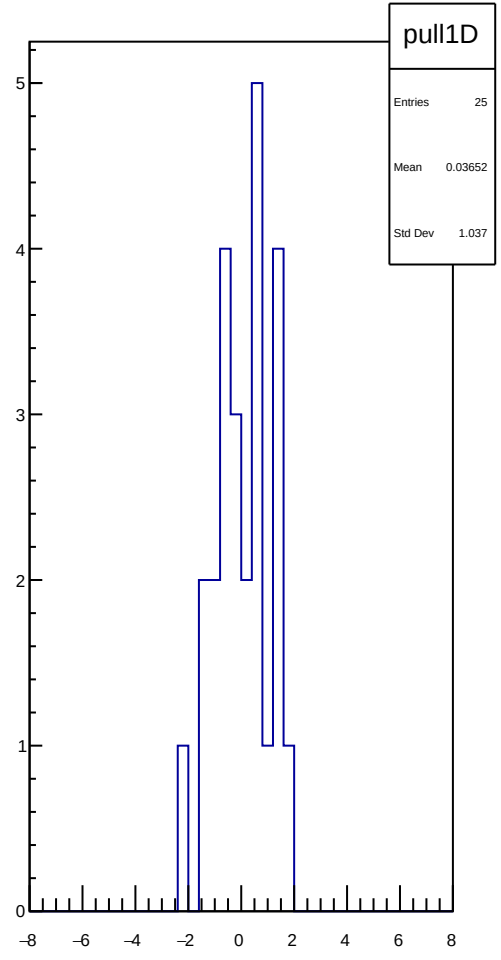

cor_asym_usr_atr2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.188e+05 / 32
p0 800.9 ± 1.097
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

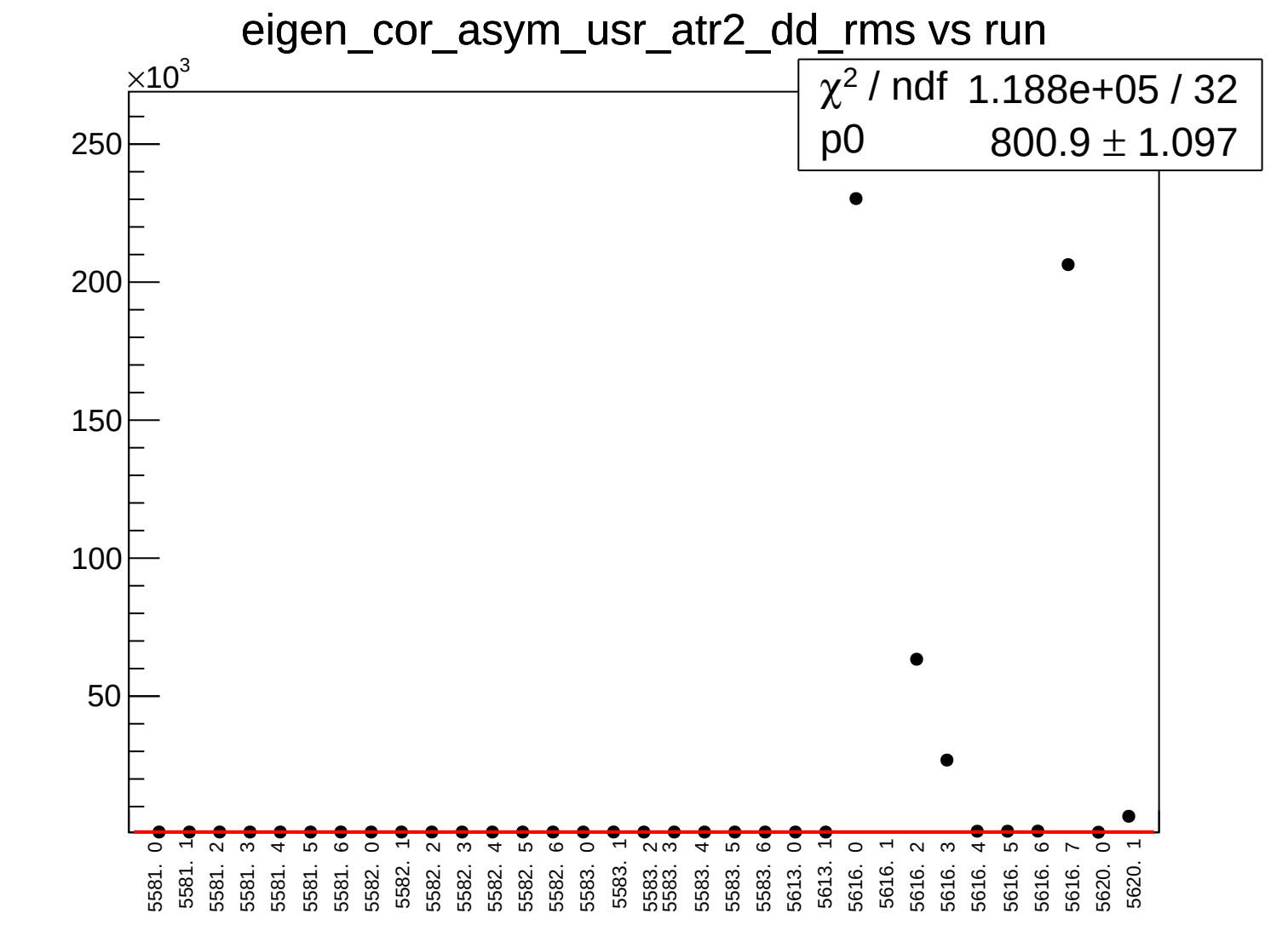

asym_usr_atr2_dd_cor_correction_mean vs run
χ² / ndf 28.25 / 25
p0 −2185 ± 3442
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 78.93
Std Dev 0
3
2
1
0
−1
−2

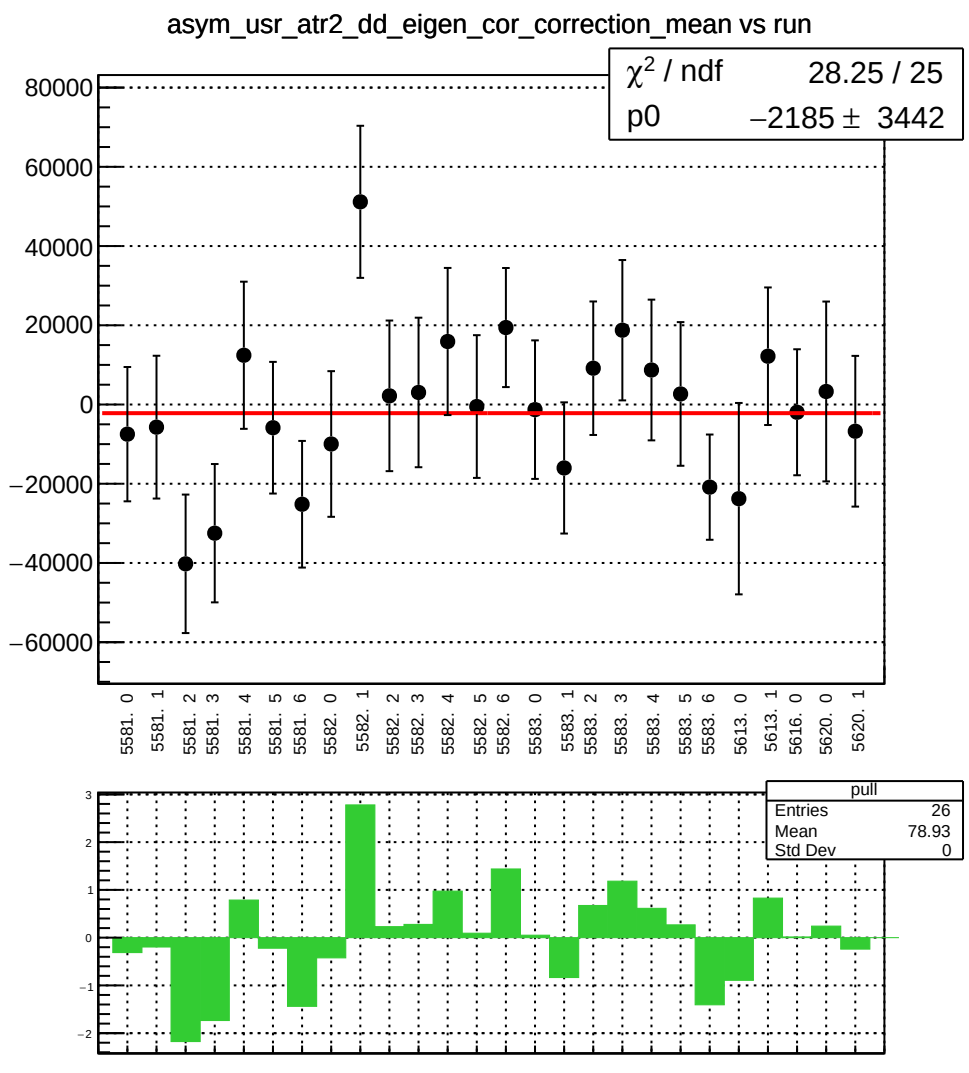

pull1D
Entries 26
Mean 0.02203
Std Dev 1.042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

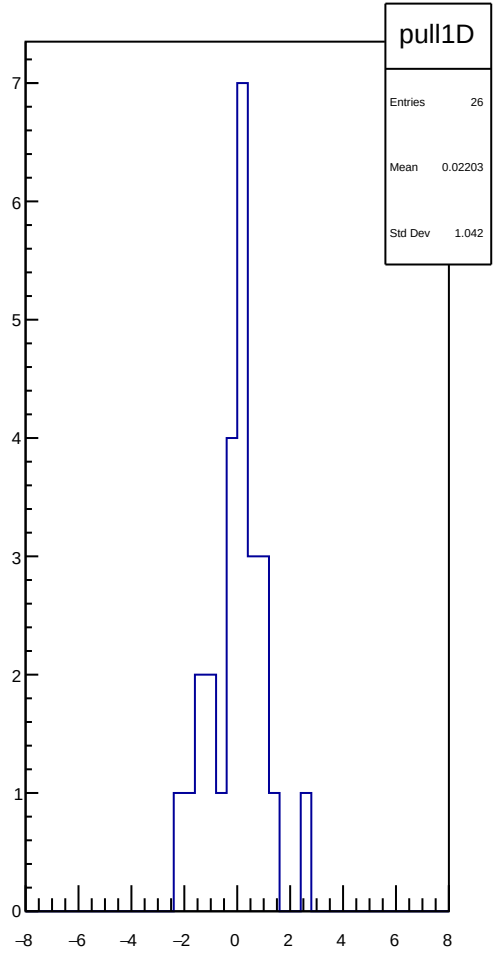

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 5684 / 25
p0 1743 ± 2.434
2300
2200
2100
2000
1900
1800
1700
1600
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

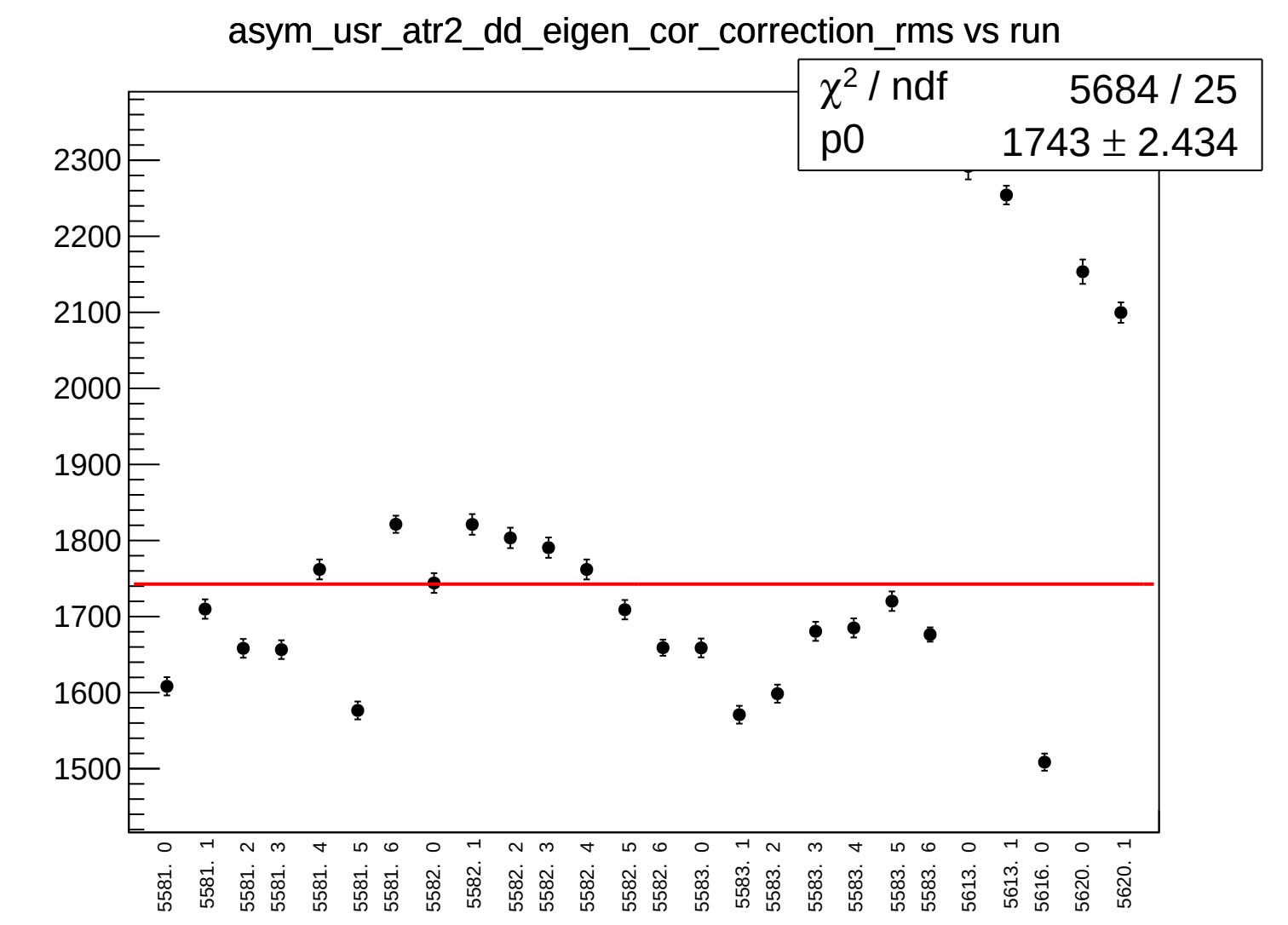

eigen_cor_asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 26.9 / 24
p0 1978 ± 1596
140
120
100
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −39.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

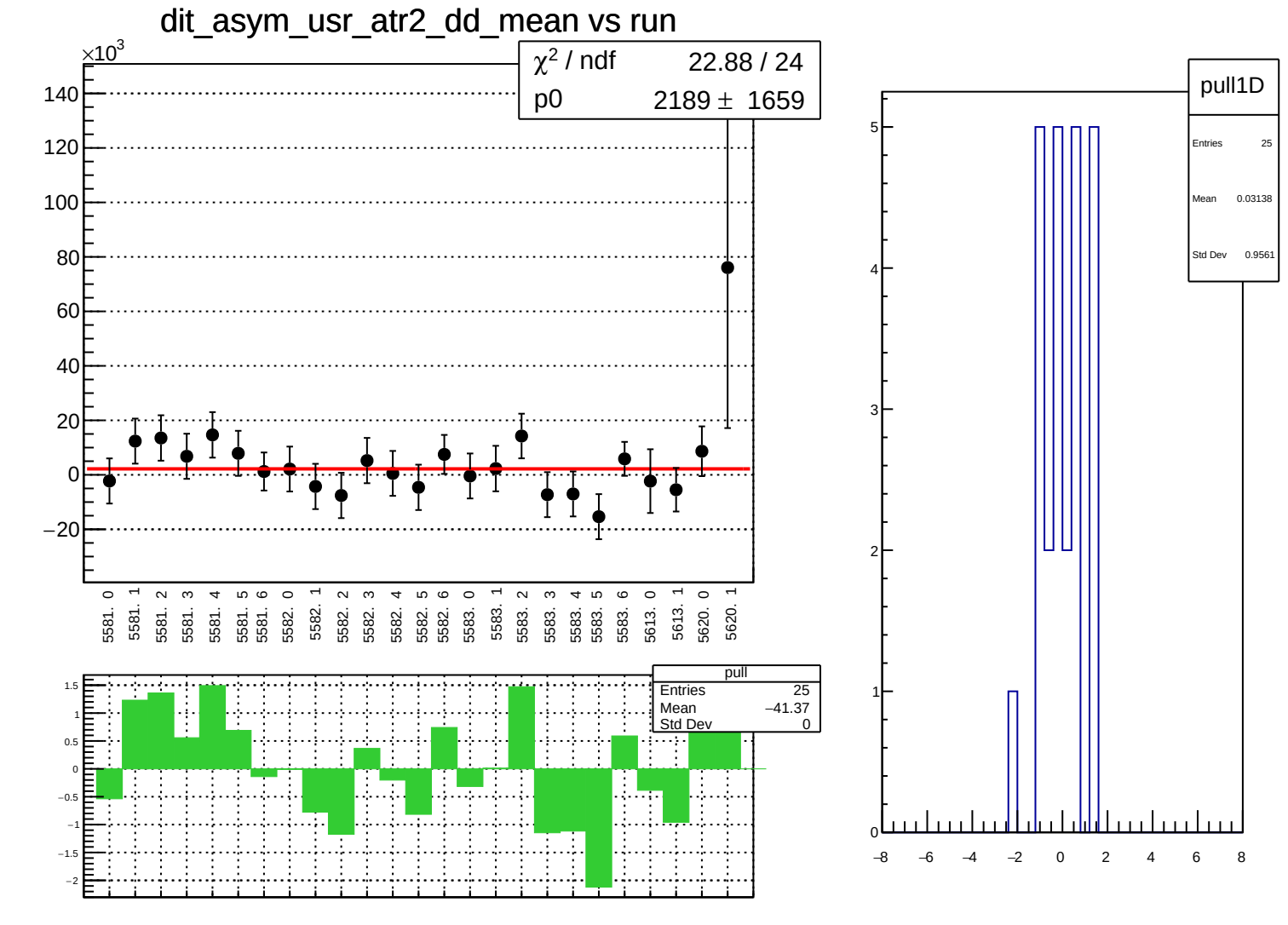

pull1D
Entries 25
Mean 0.03652
Std Dev 1.037
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

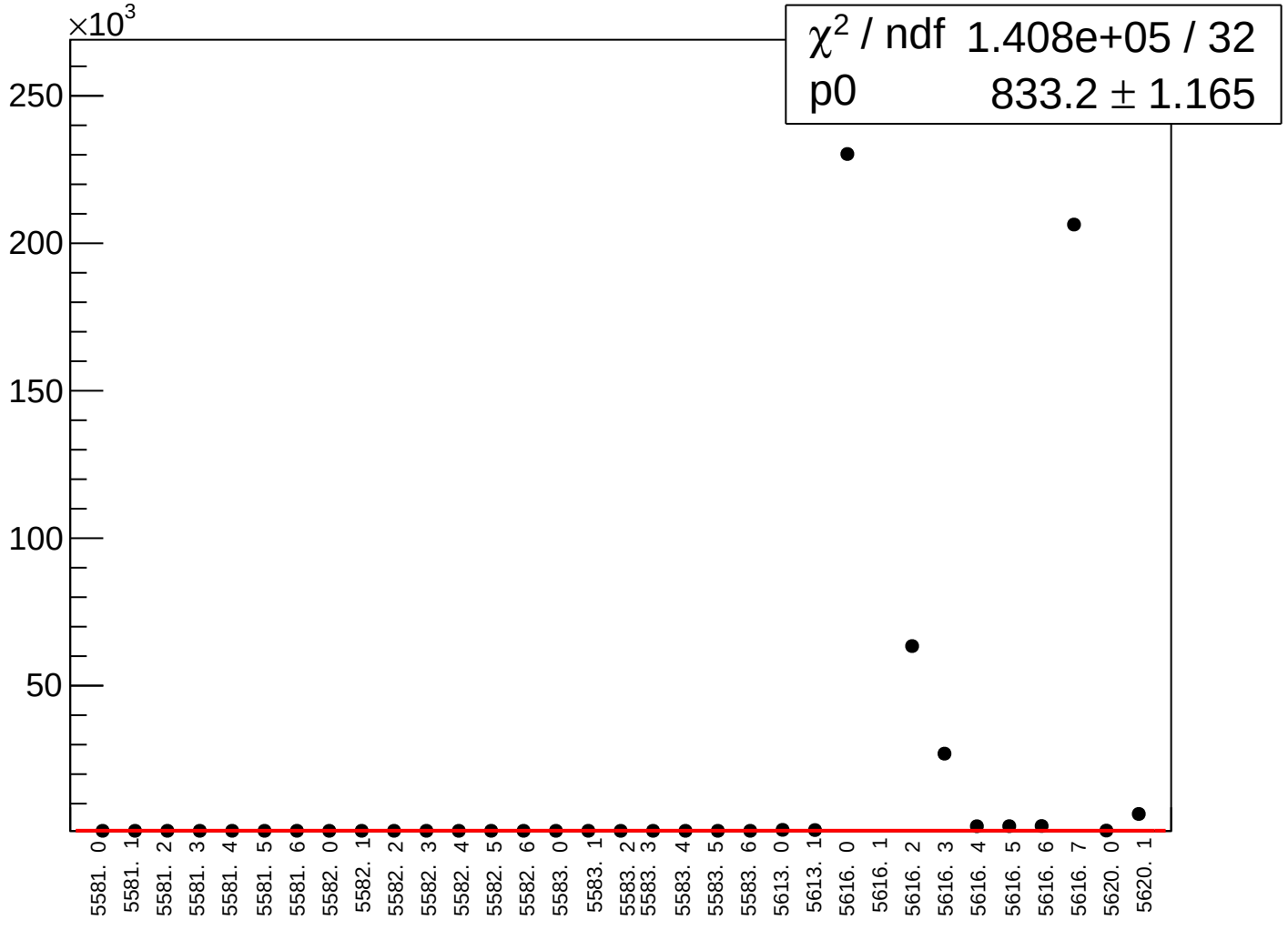

eigen_cor_asym_usr_atr2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.188e+05 / 32
p0 800.9 ± 1.097
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

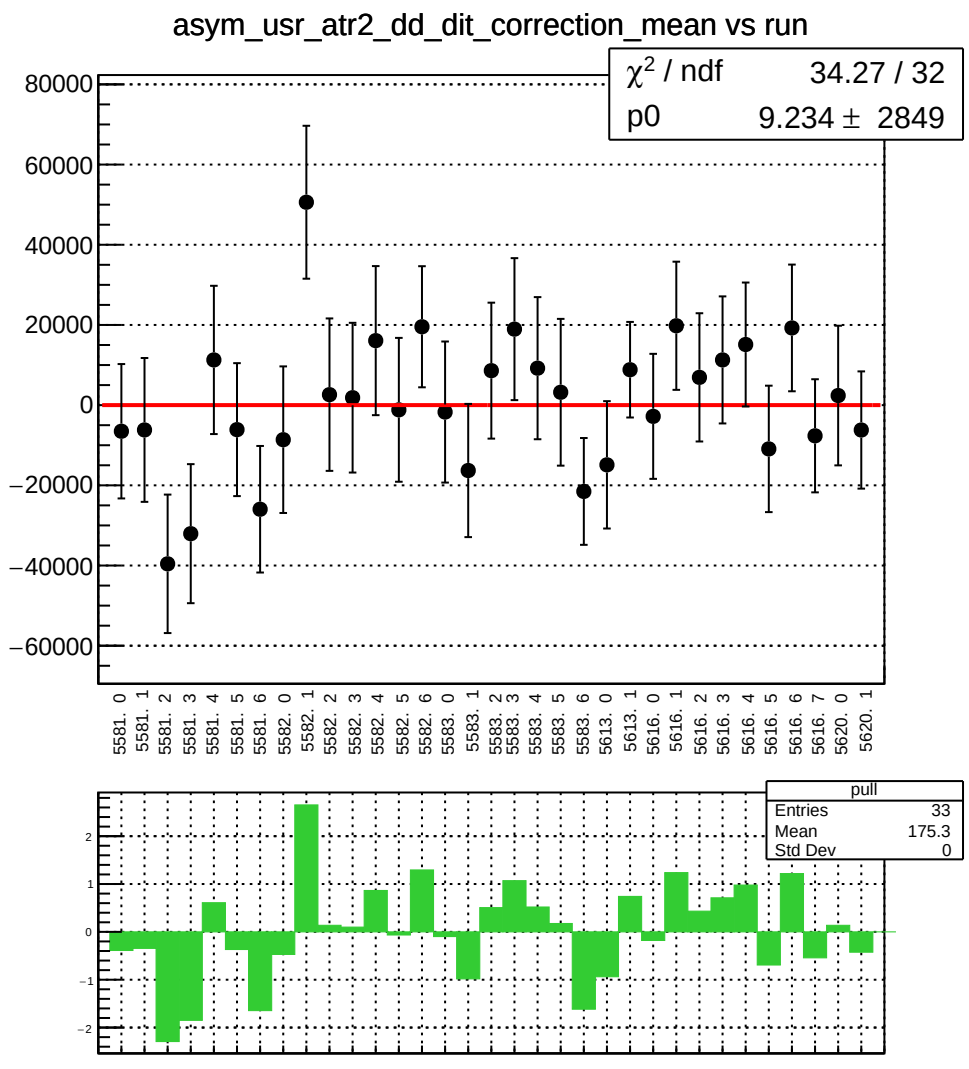

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
χ² / ndf 28.25 / 25
p0 −2185 ± 3442
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 78.93
Std Dev 0
3
2
1
0
−1
−2

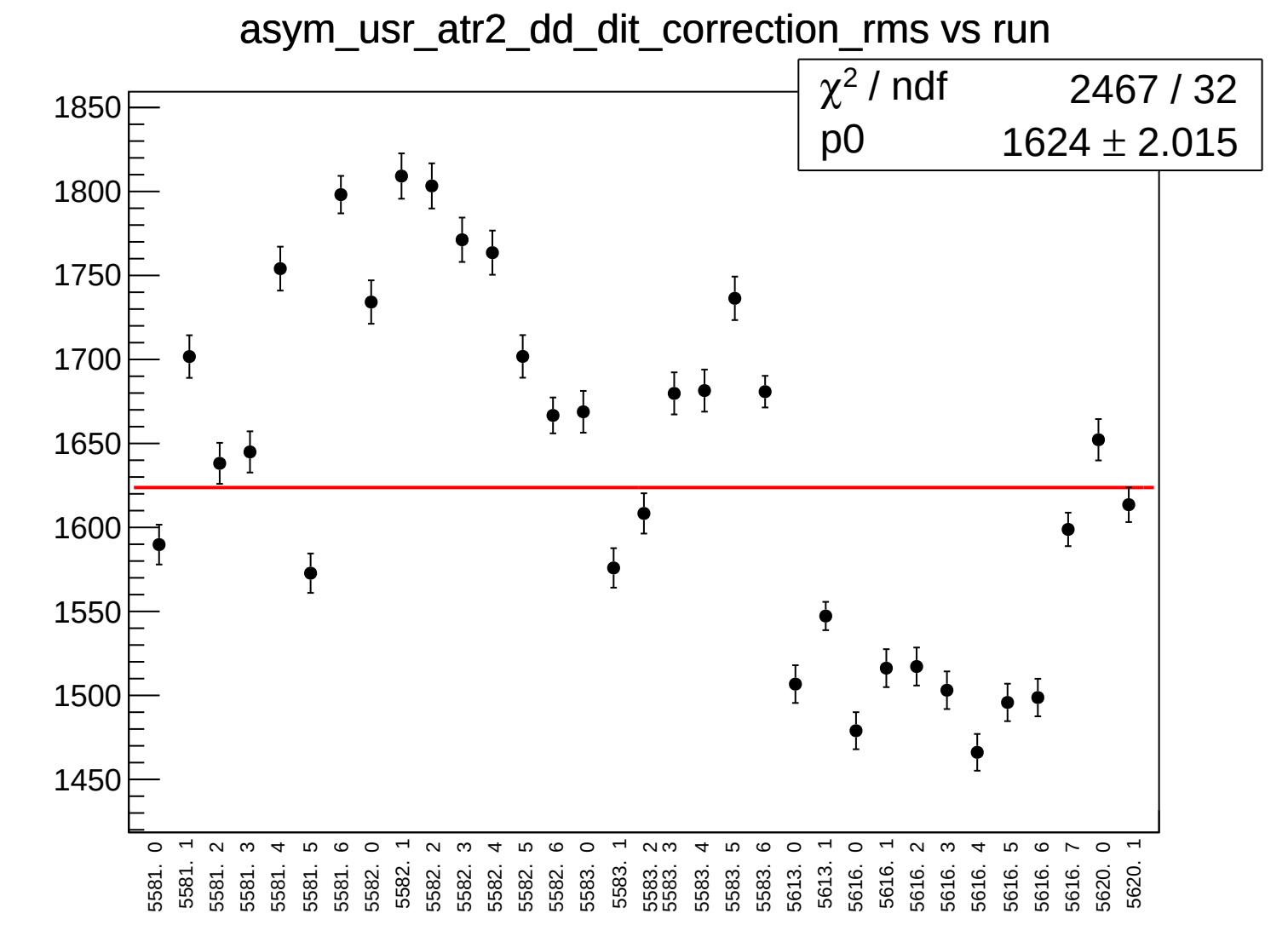

pull1D
Entries 26
Mean 0.02203
Std Dev 1.042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

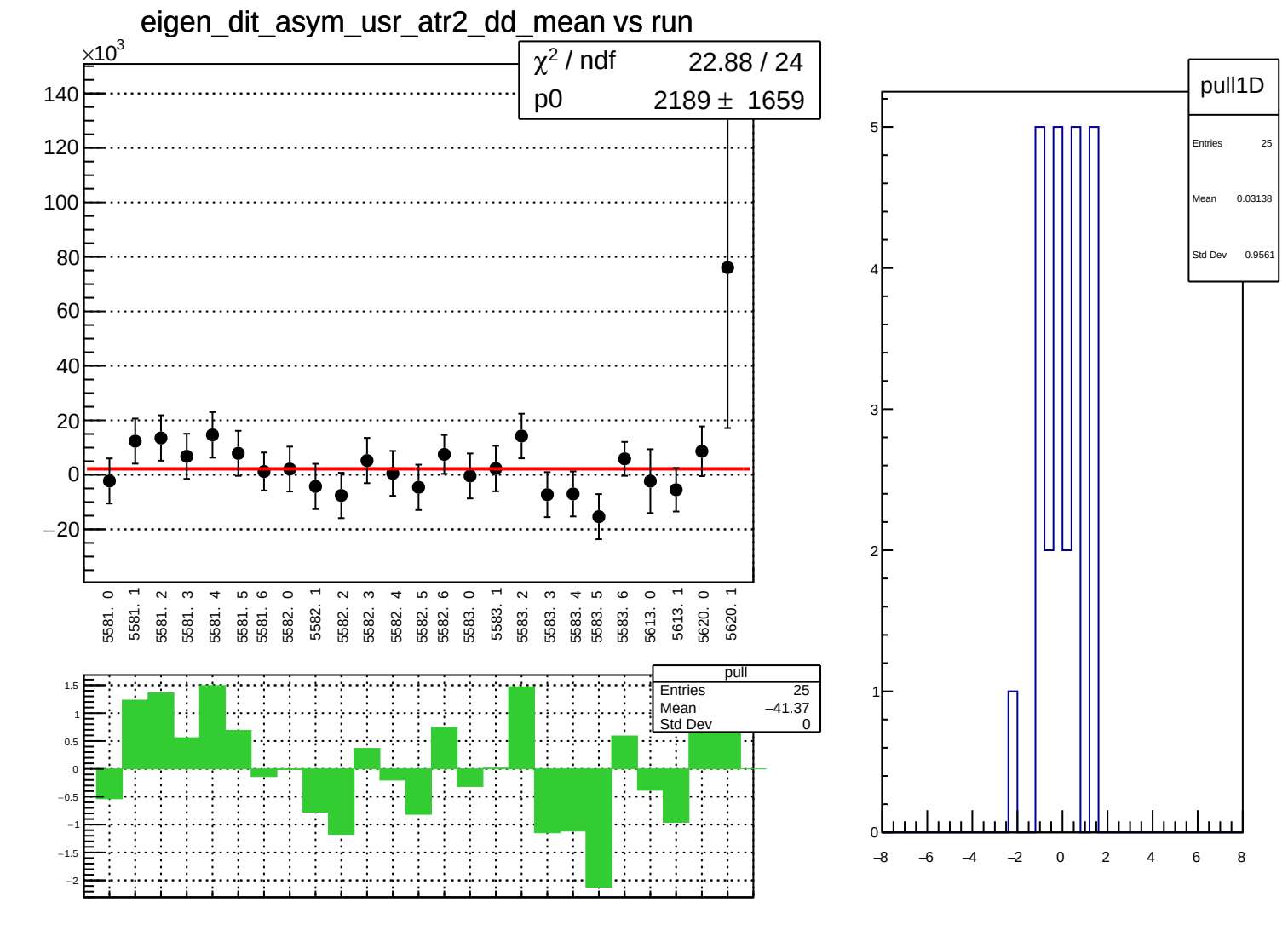

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5684 / 25
p0 1743 ± 2.434
2300
2200
2100
2000
1900
1800
1700
1600
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

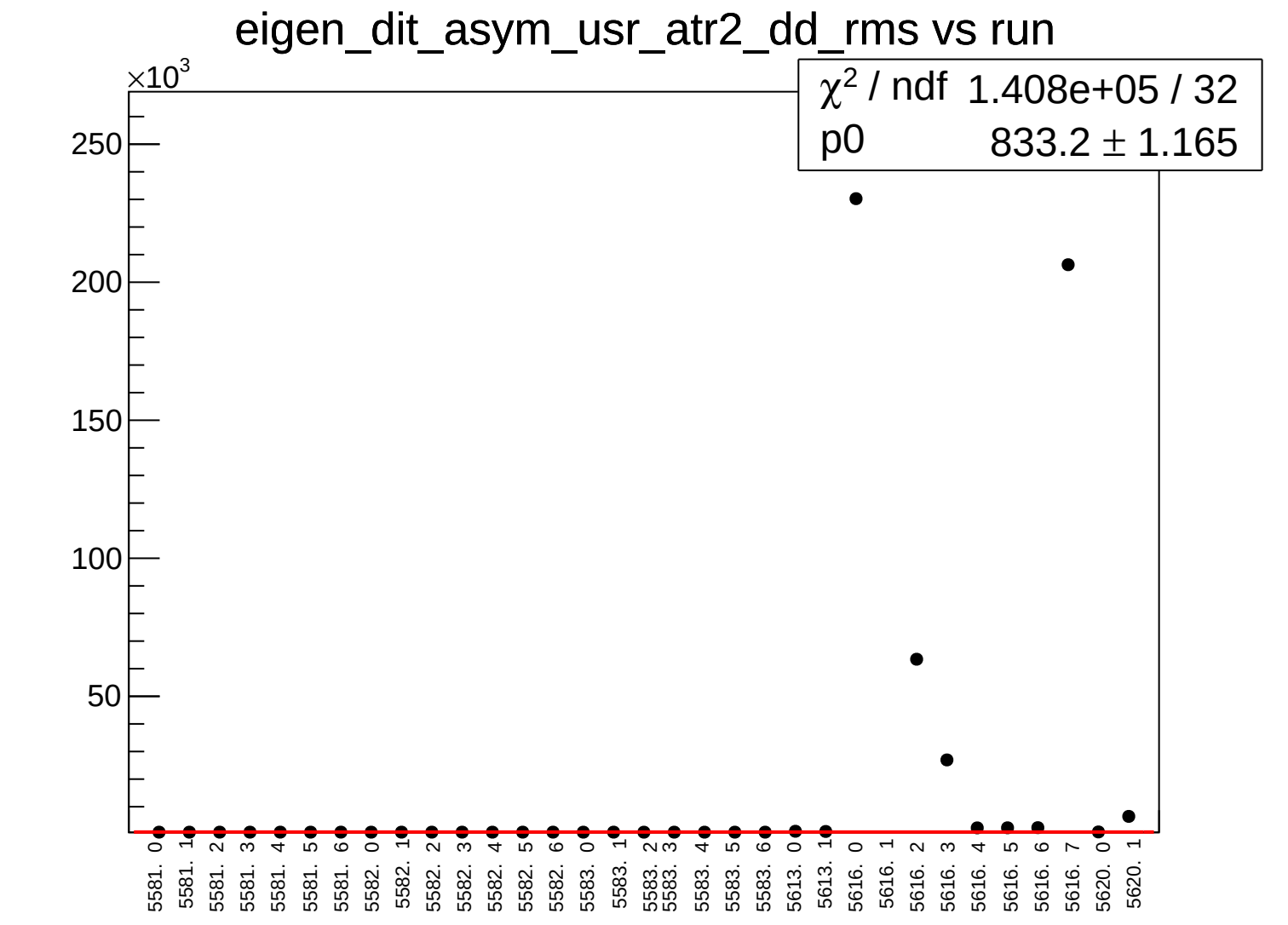

dit_asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 22.88 / 24
p0 2189 ± 1659
140
120
100
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −41.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 25
Mean 0.03138
Std Dev 0.9561
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

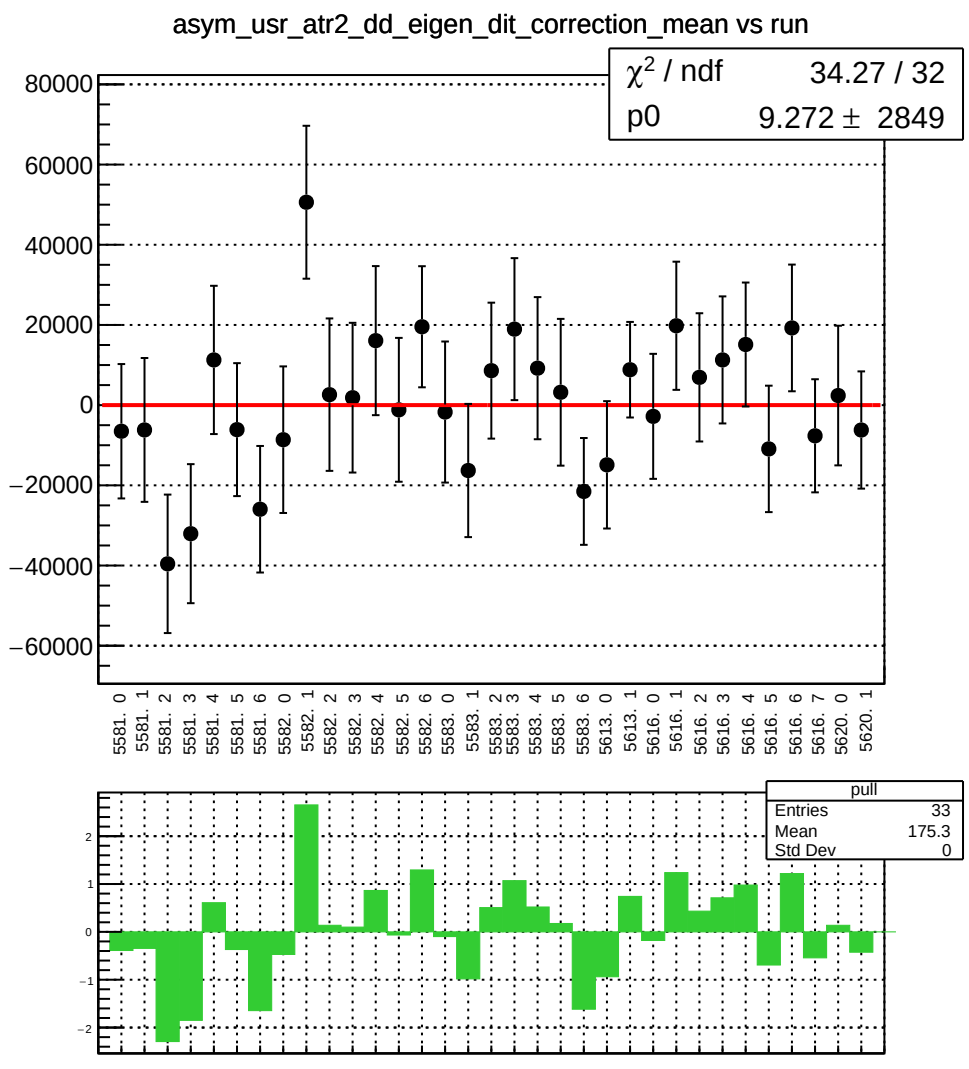

dit_asym_usr_atr2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.408e+05 / 32
p0 833.2 ± 1.165
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

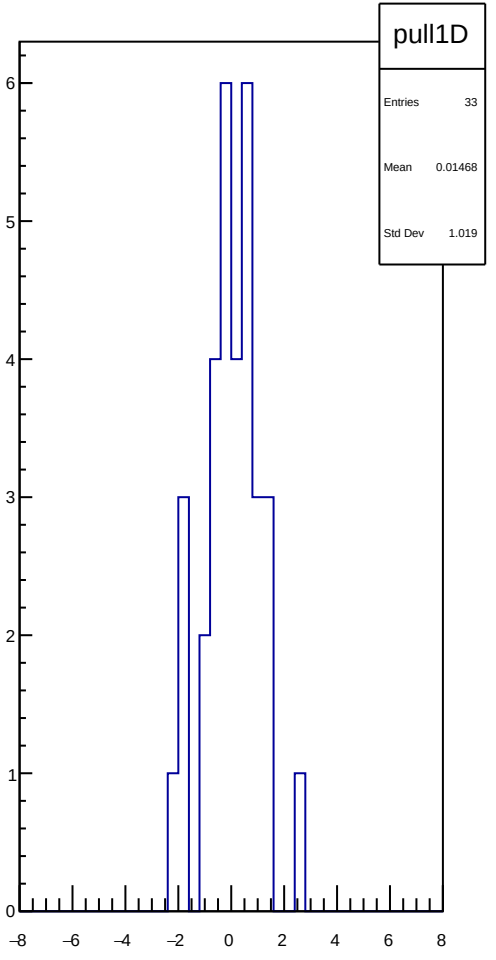

asym_usr_atr2_dd_dit_correction_mean vs run
χ² / ndf 34.27 / 32
p0 9.234 ± 2849
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 175.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.01468
Std Dev 1.019
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

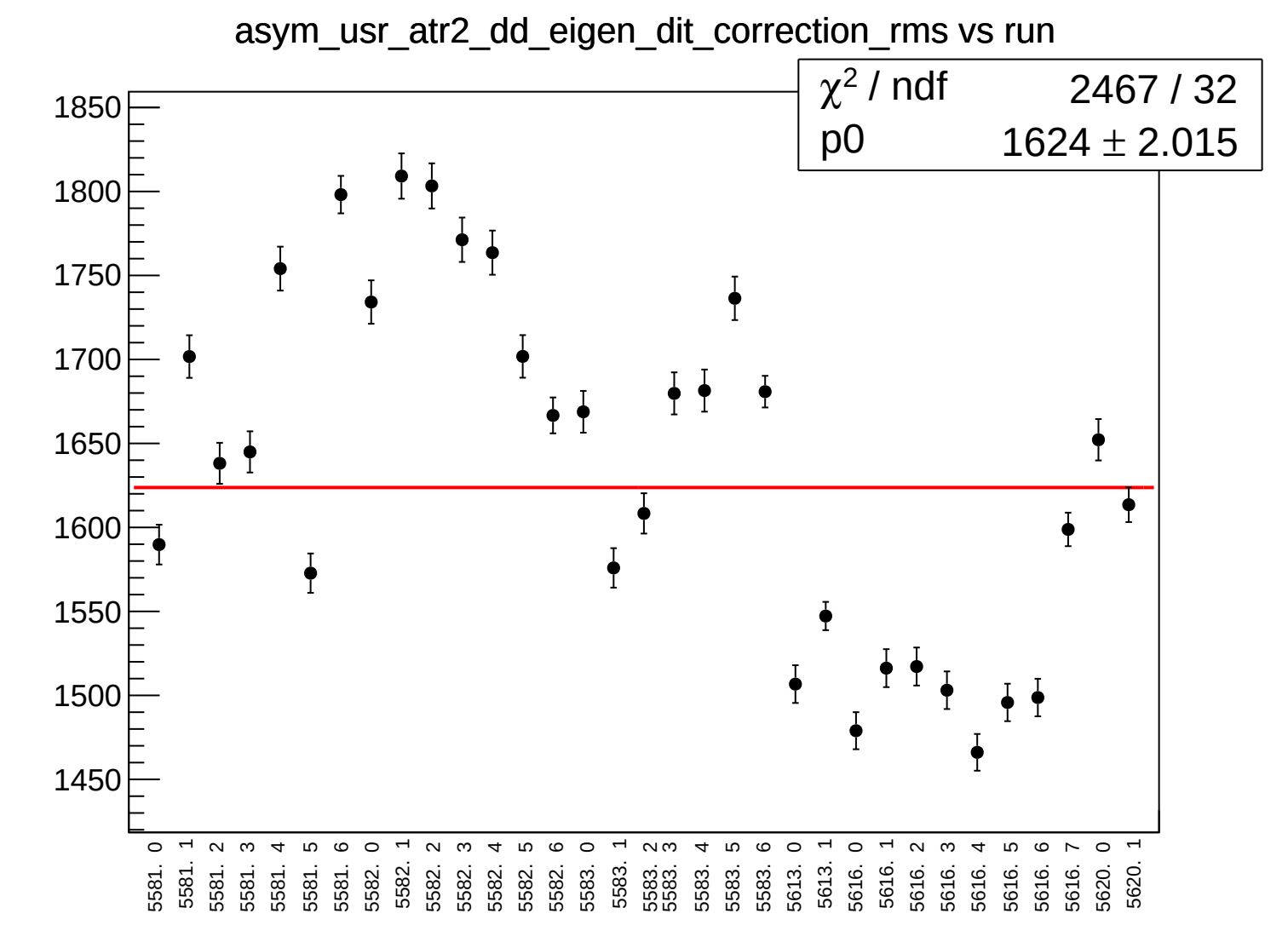

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 2467 / 32
p0 1624 ± 2.015
1850
1800
1750
1700
1650
1600
1550
1500
1450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

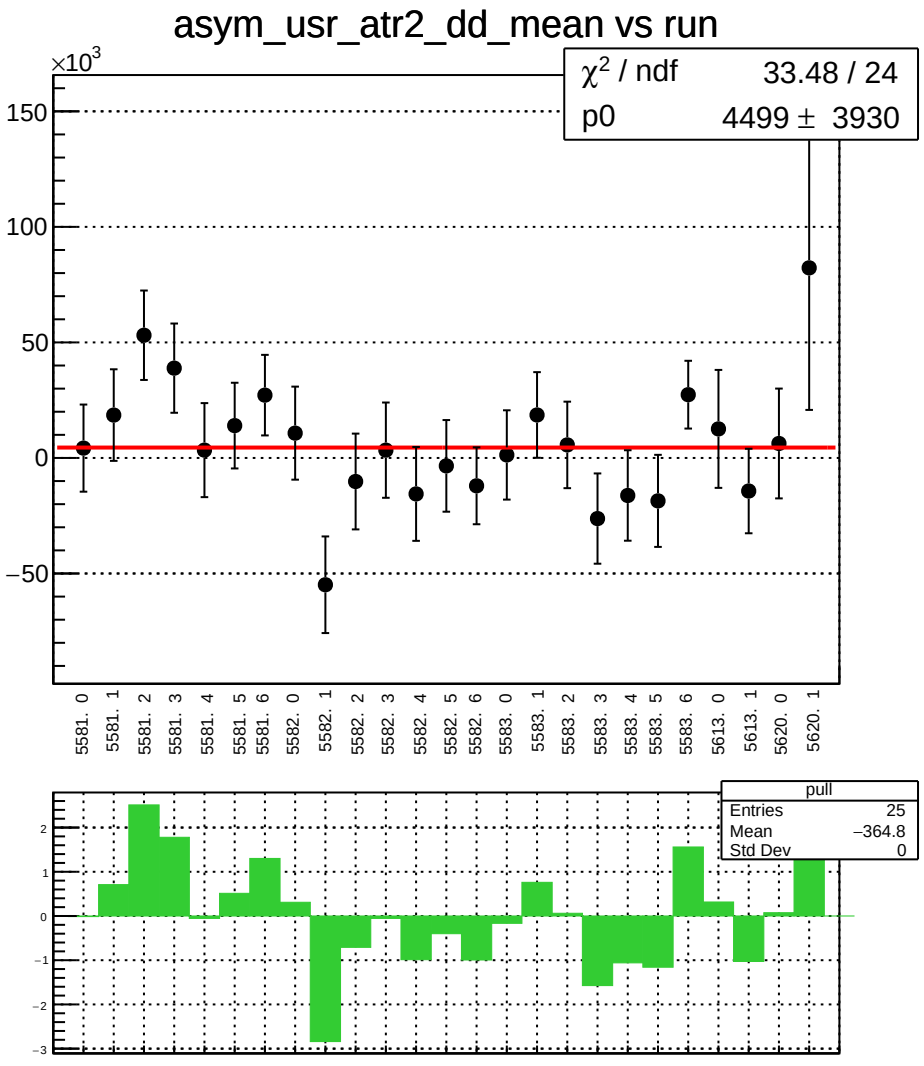

eigen_dit_asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 22.88 / 24
p0 2189 ± 1659
140
120
100
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −41.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 25
Mean 0.03138
Std Dev 0.9561
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

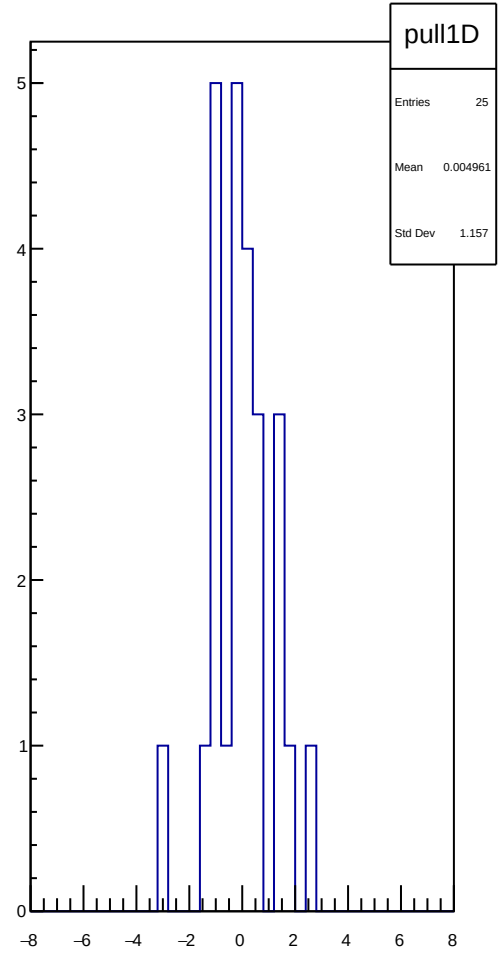

eigen_dit_asym_usr_atr2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.408e+05 / 32
p0 833.2 ± 1.165
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

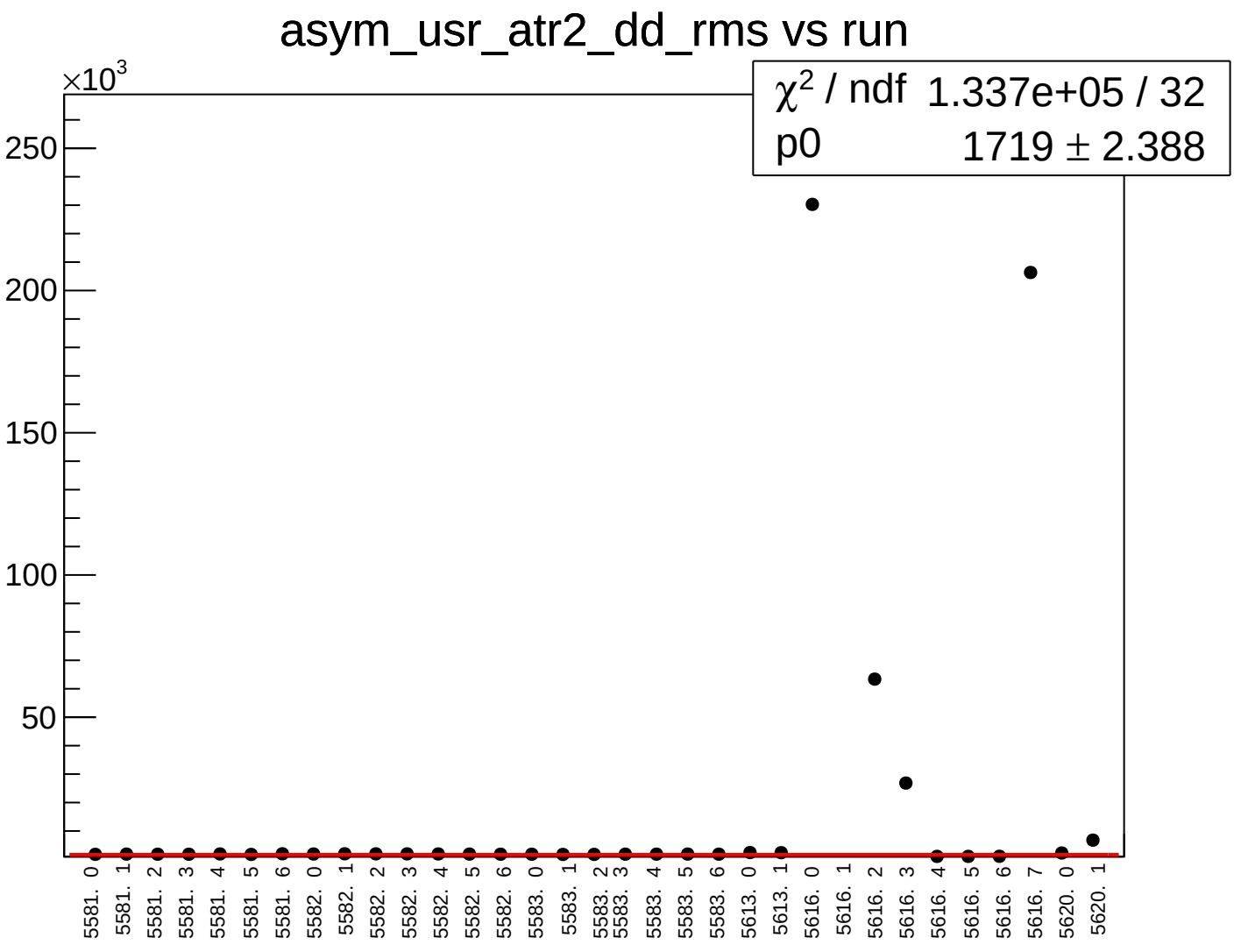

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
χ² / ndf 34.27 / 32
p0 9.272 ± 2849
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 175.3
Std Dev 0
2
1
0
−1
−2

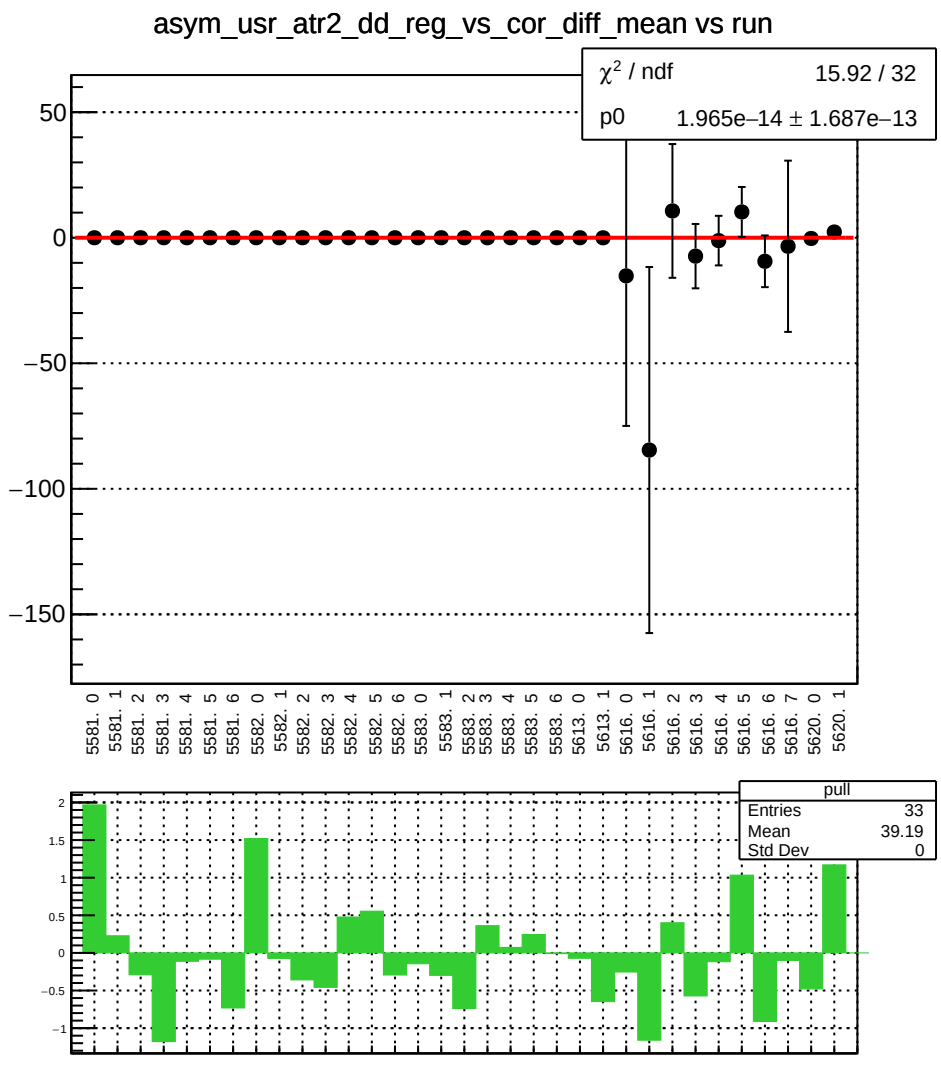

pull1D
Entries 33
Mean 0.01468
Std Dev 1.019
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

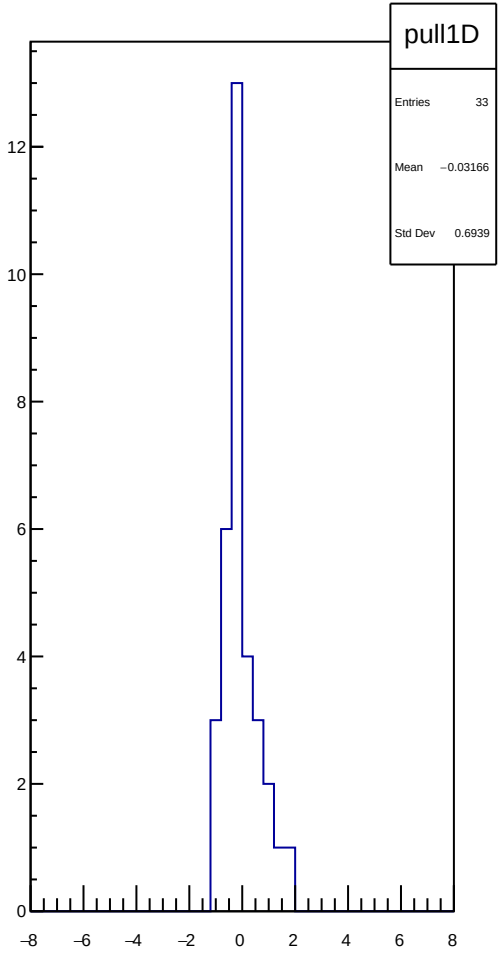

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2467 / 32
p0 1624 ± 2.015
1850
1800
1750
1700
1650
1600
1550
1500
1450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

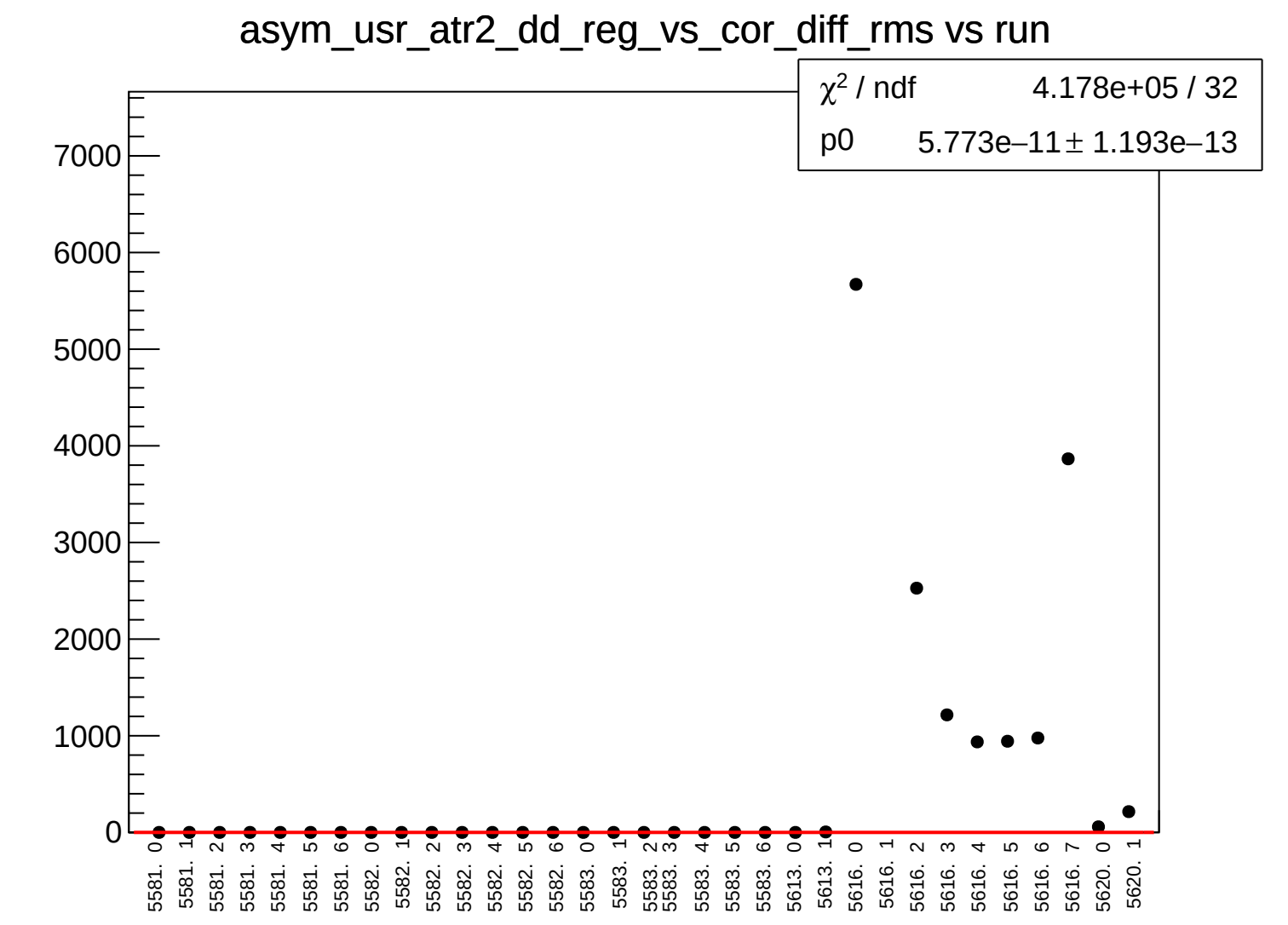

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 33.48 / 24
p0 4499 ± 3930
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5620. 0
5620. 1
pull
Entries 25
Mean −364.8
Std Dev 0
2
1
0
−1
−2
−3

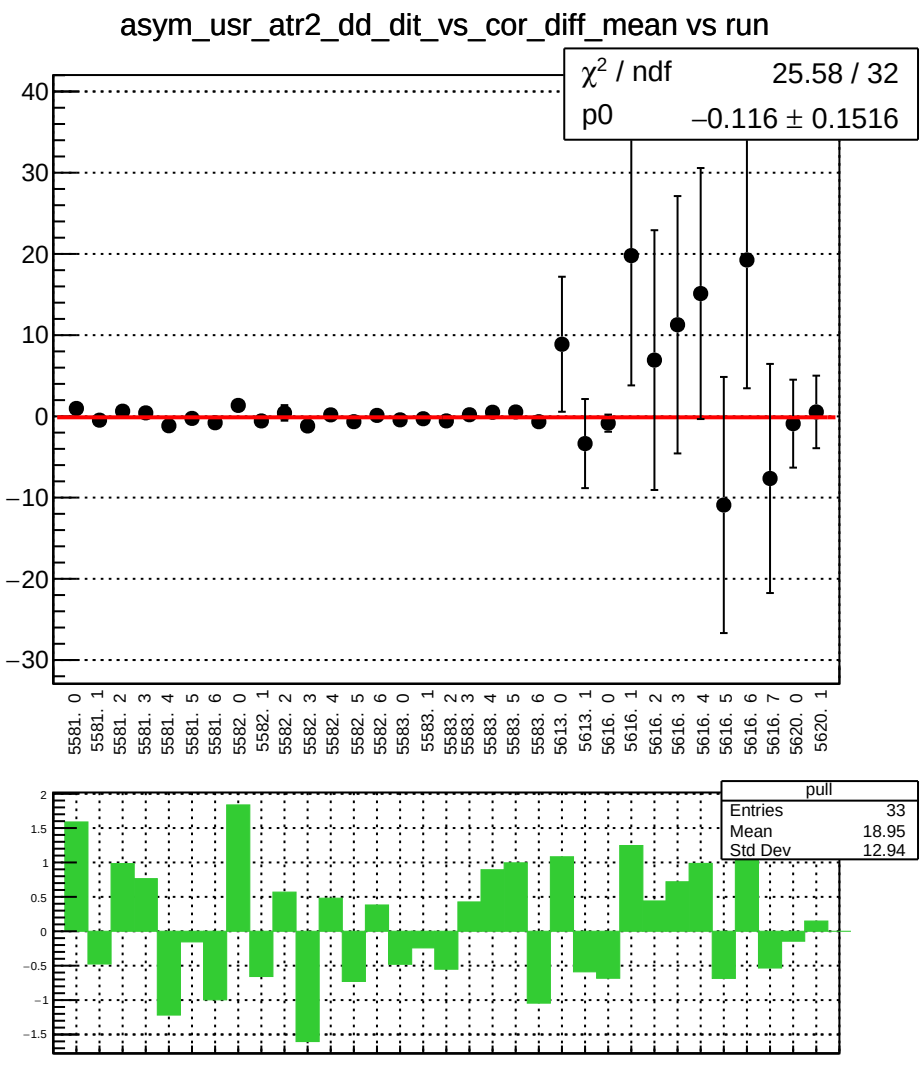

pull1D
Entries 25
Mean 0.004961
Std Dev 1.157
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

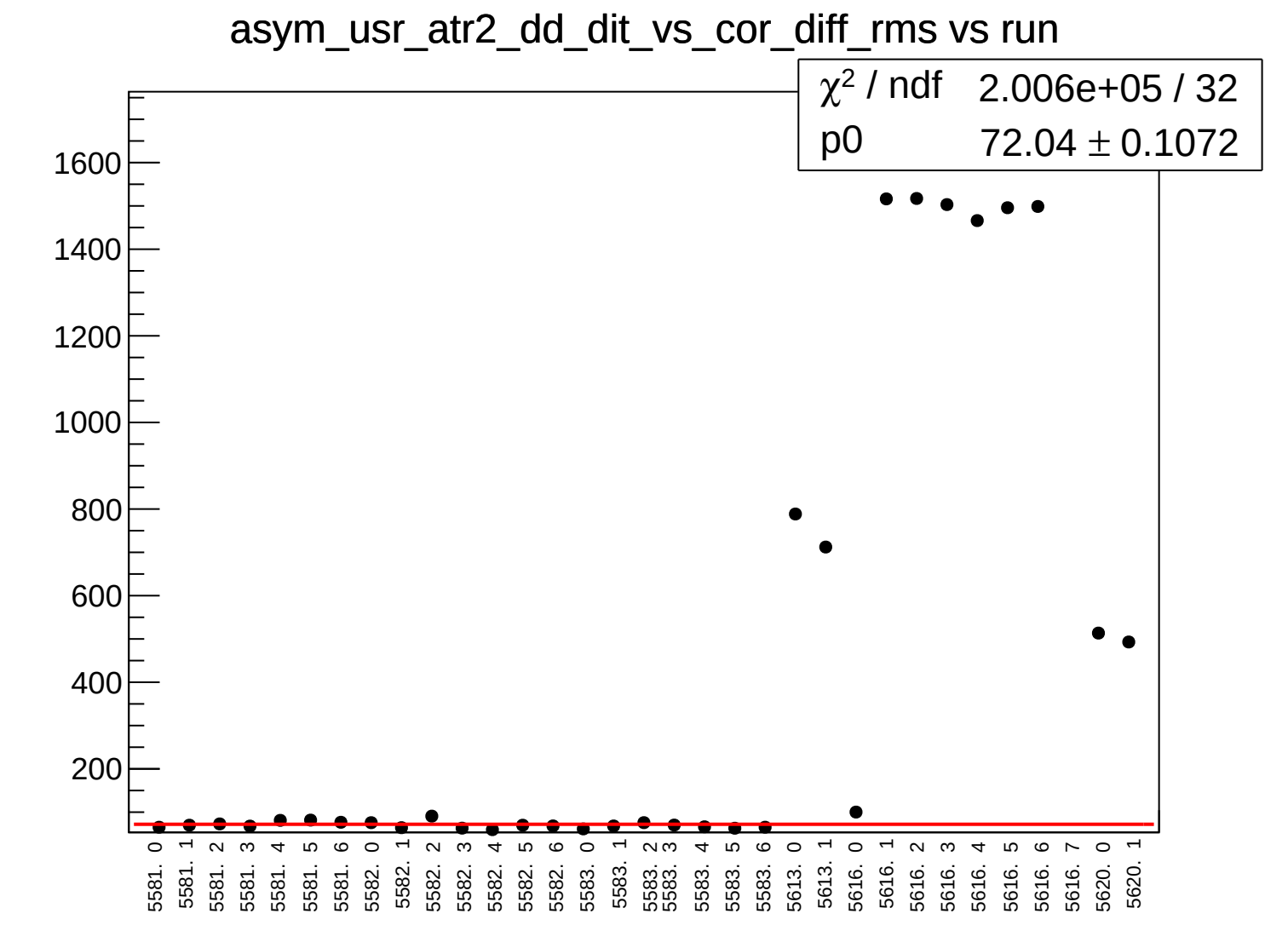

asym_usr_atr2_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.337e+05 / 32
p0 1719 ± 2.388
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

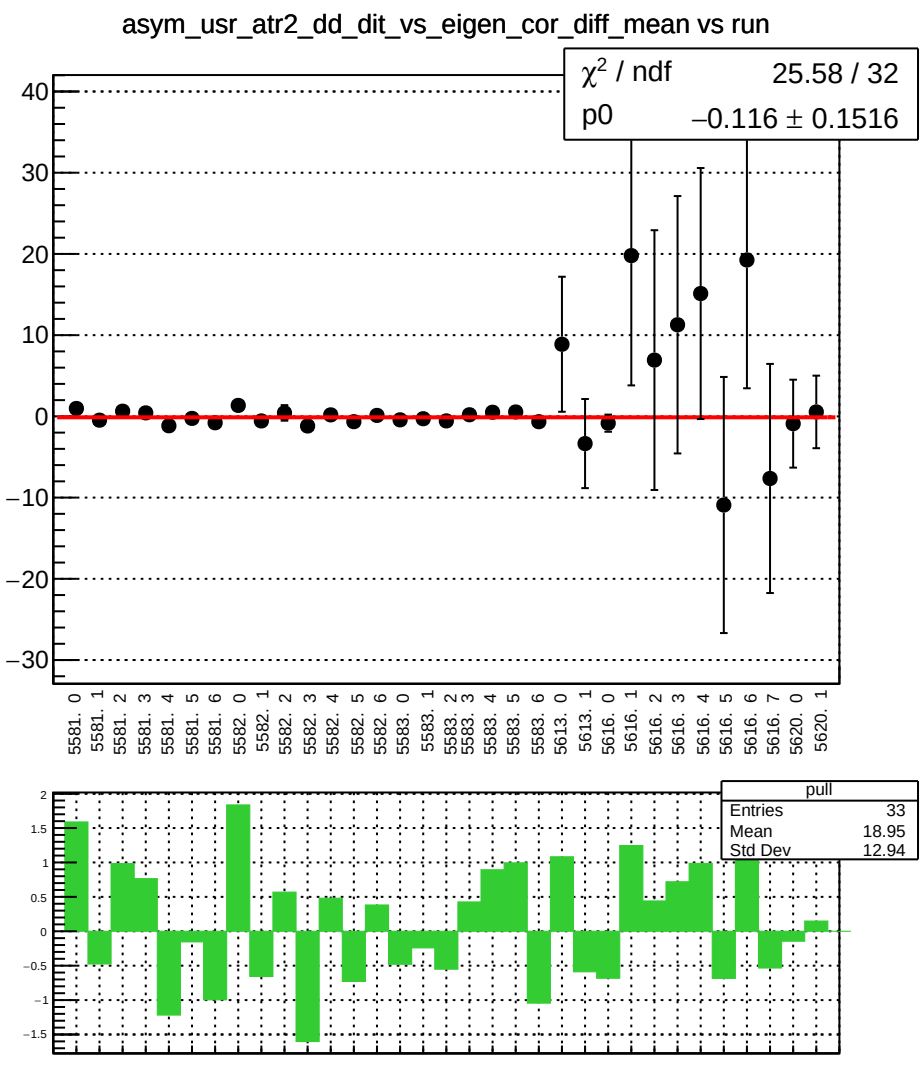

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 15.92 / 32
p0 1.965e−14 ± 1.687e−13
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

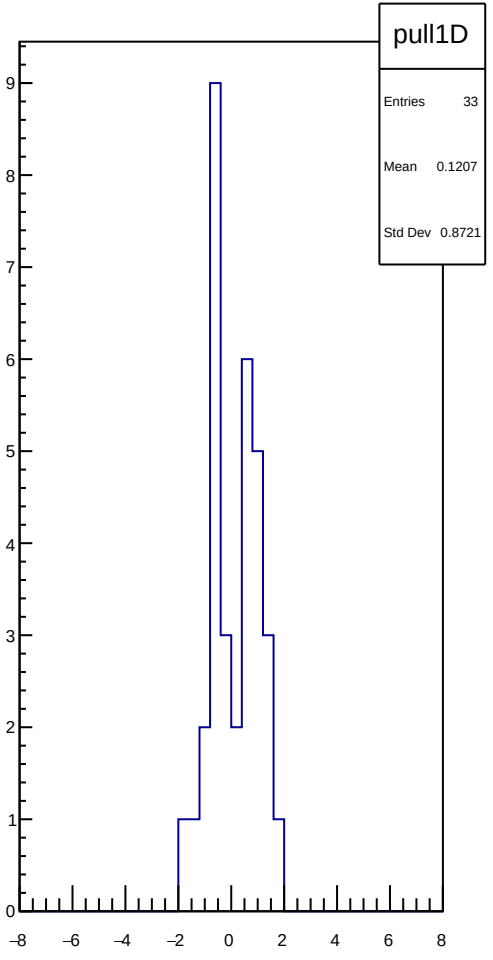

pull1D
Entries 33
Mean −0.03166
Std Dev 0.6939
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

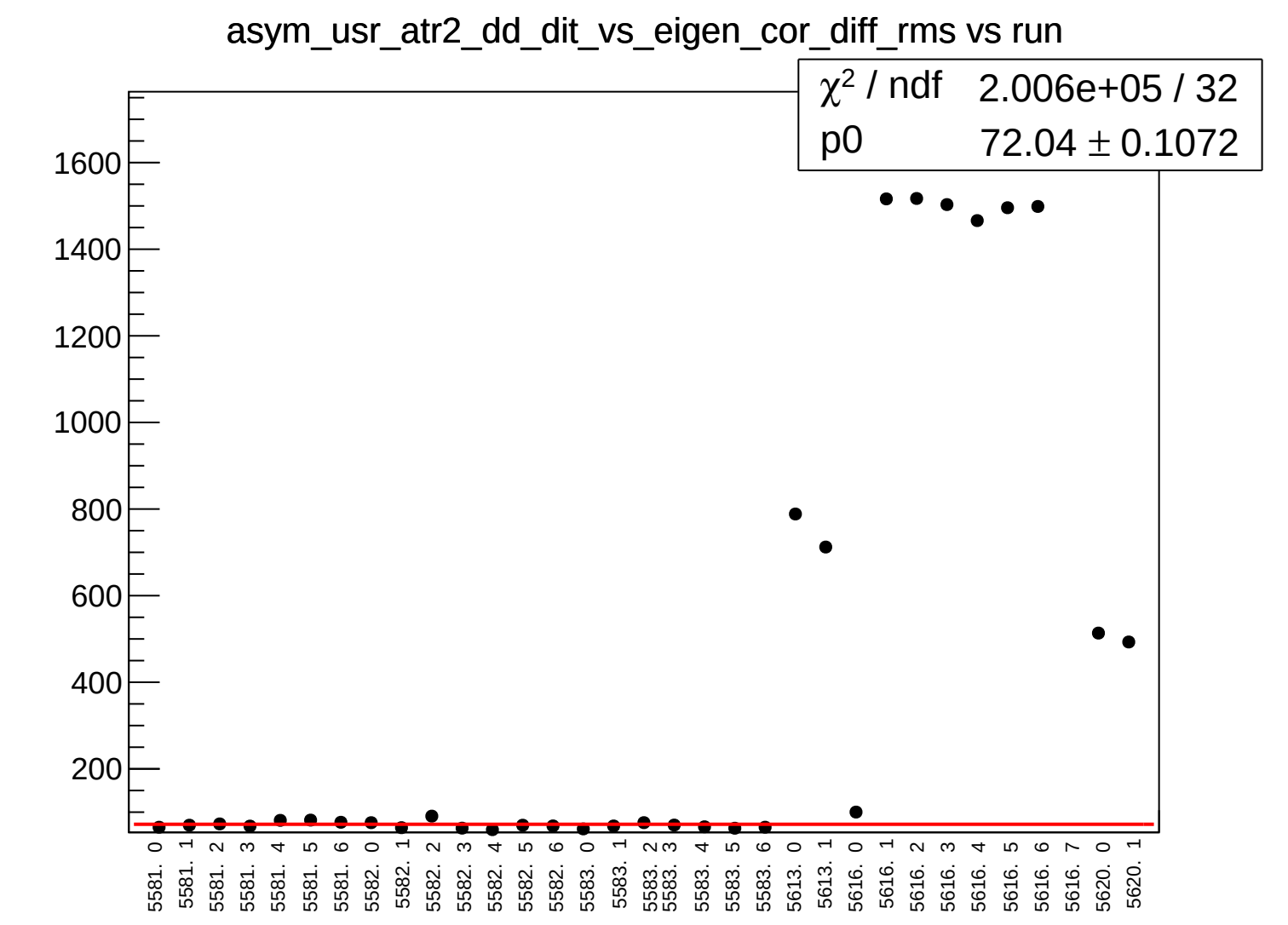

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.178e+05 / 32
p0 5.773e−11 ± 1.193e−13
7000
6000
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

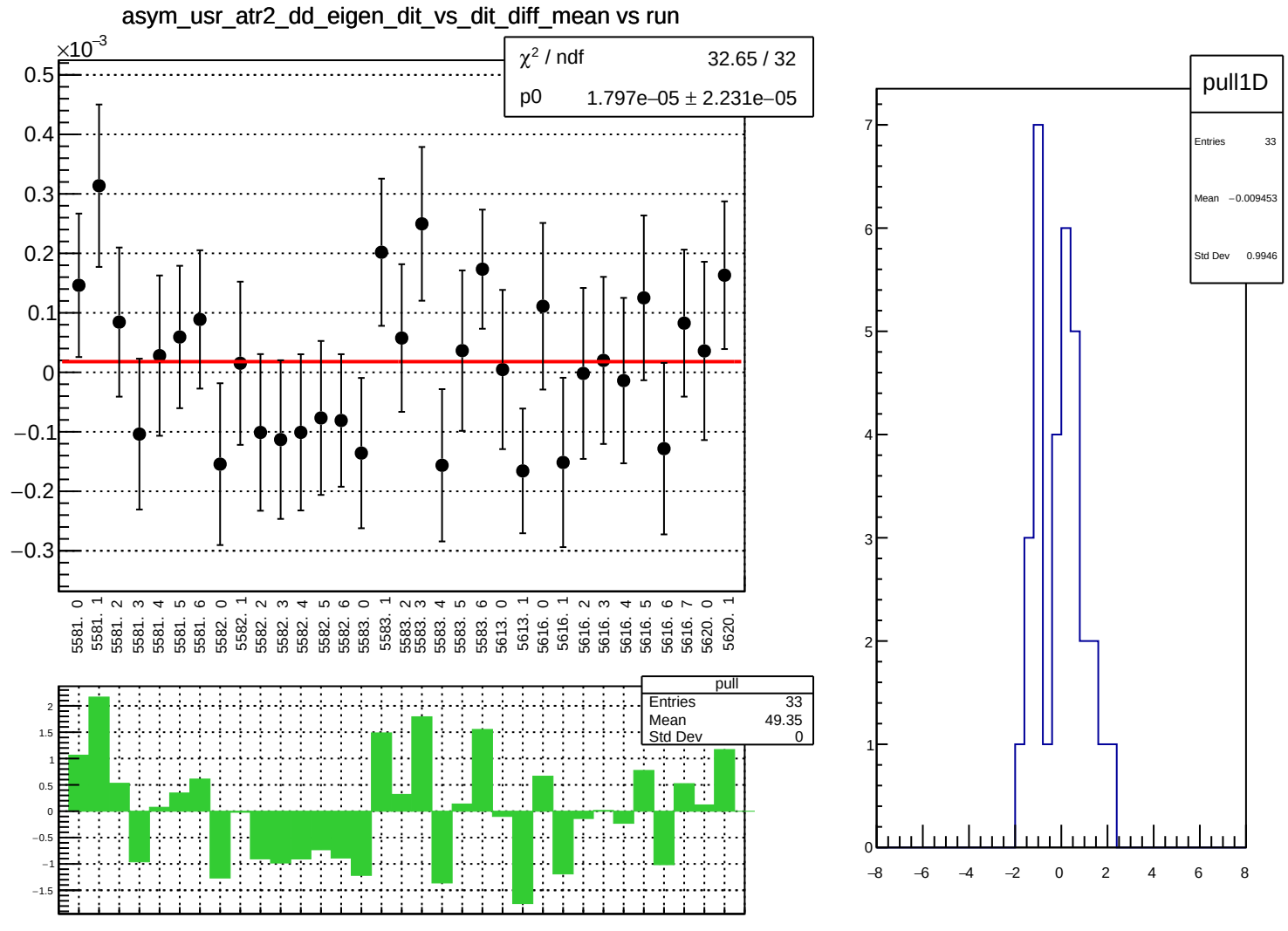

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 25.58 / 32
p0 −0.116 ± 0.1516
40
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.95
Std Dev 12.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1207
Std Dev 0.8721
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

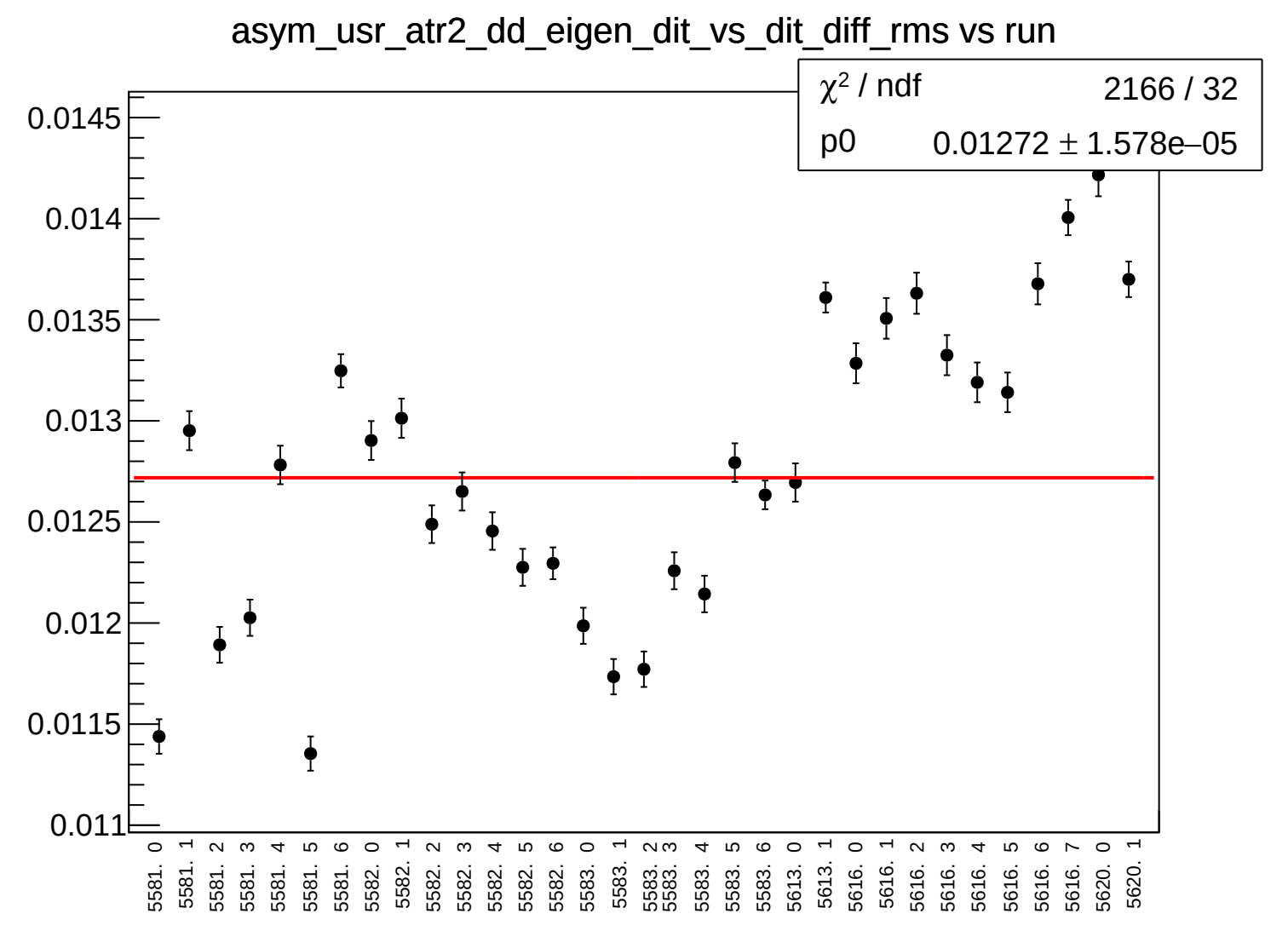

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.006e+05 / 32
p0 72.04 ± 0.1072
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

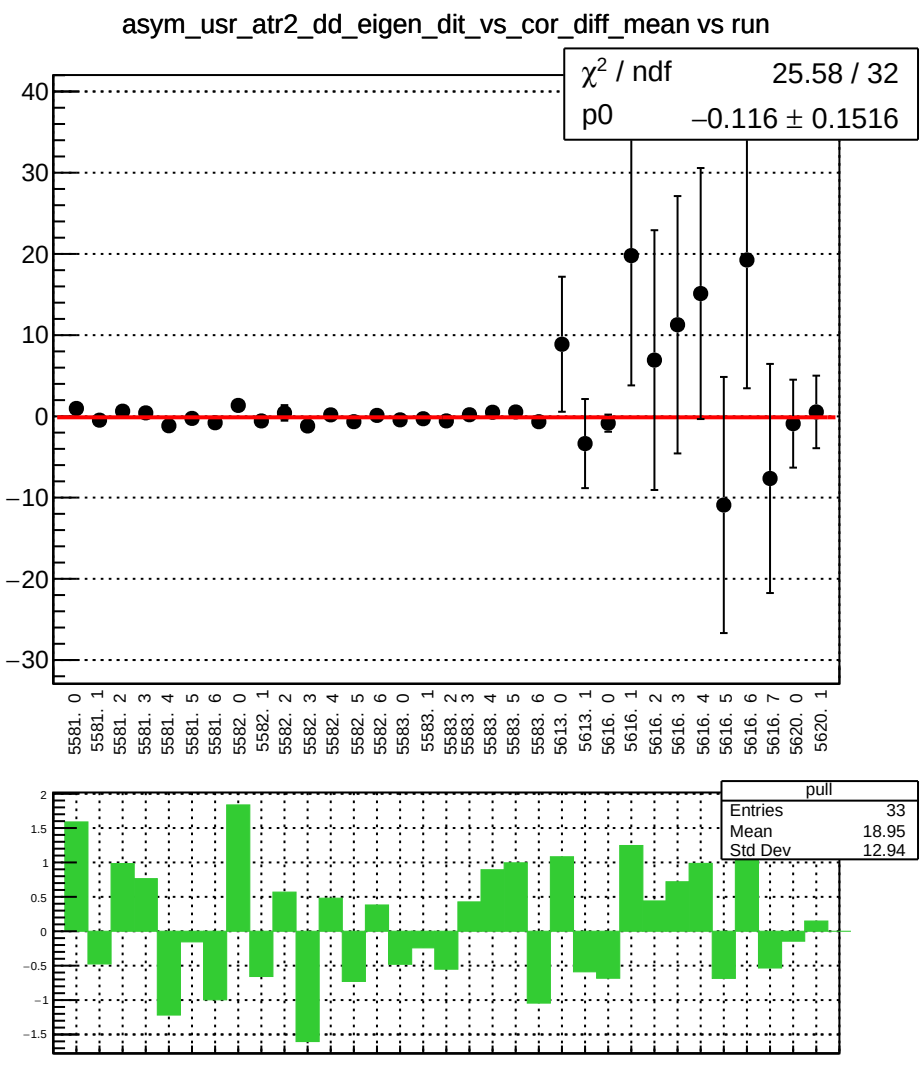

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.58 / 32
p0 −0.116 ± 0.1516
40
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.95
Std Dev 12.94
2
1.5
1
0.5
0
−0.5
−1
−1.5

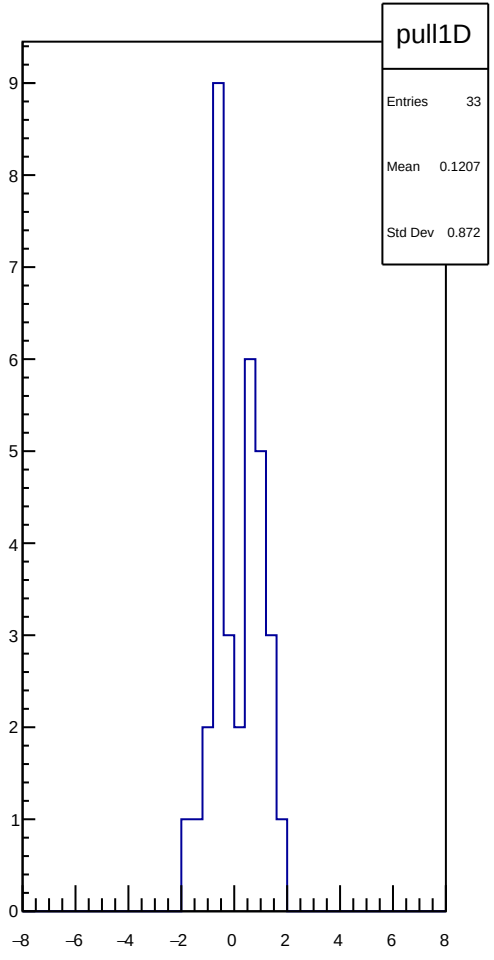

pull1D
Entries 33
Mean 0.1207
Std Dev 0.8721
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

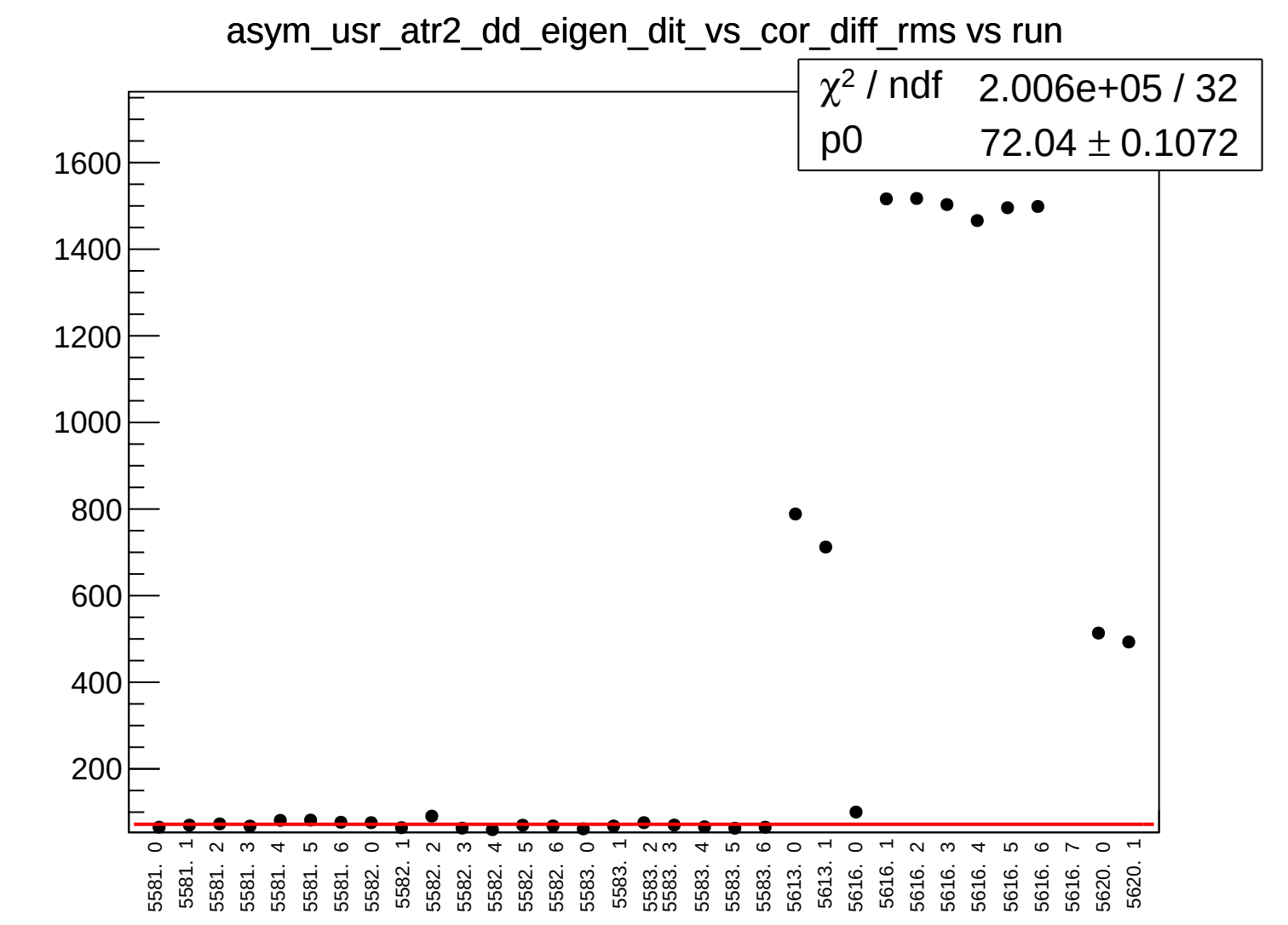

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.006e+05 / 32
p0 72.04 ± 0.1072
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

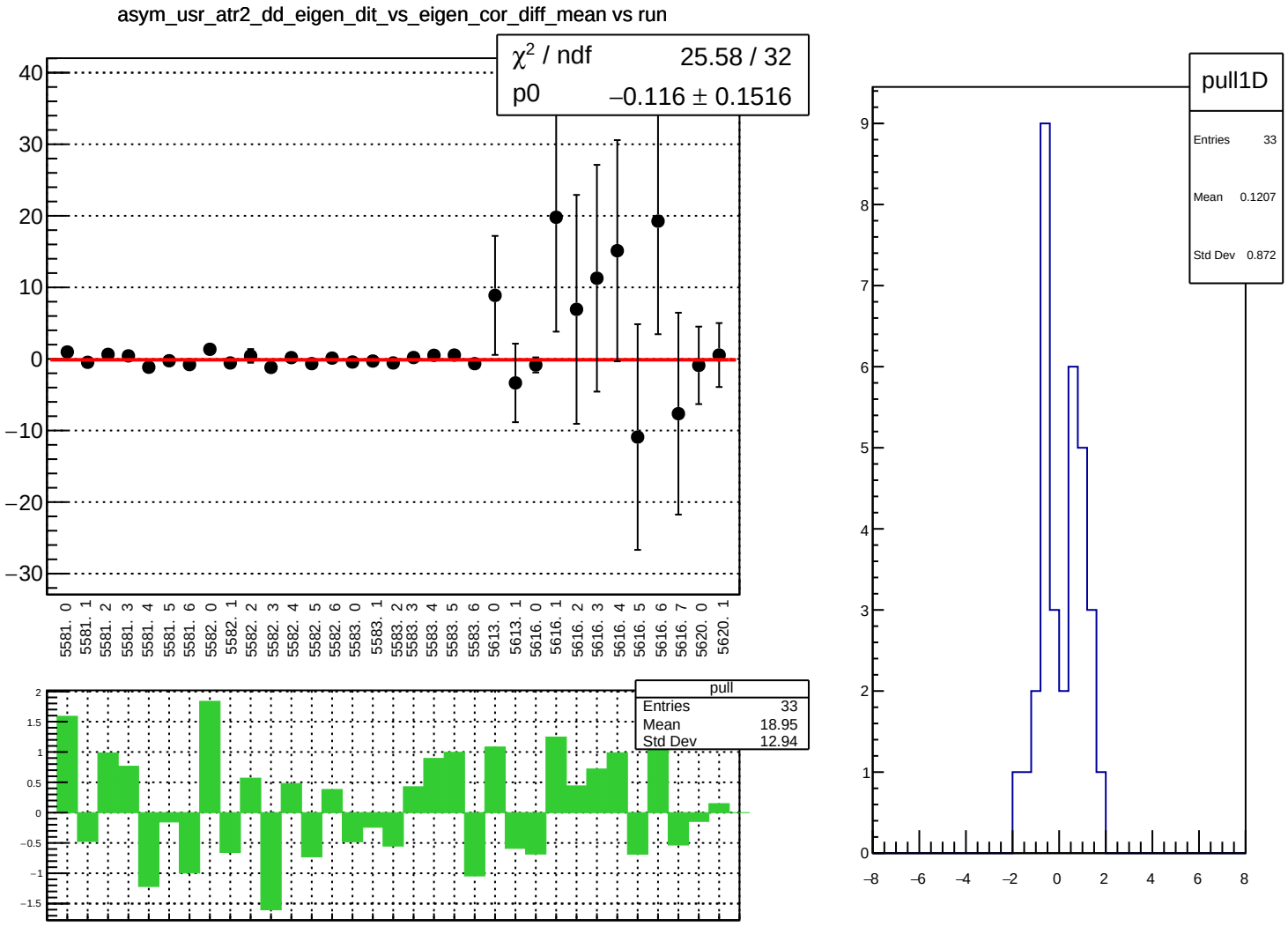

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.65 / 32
p0 1.797e−05 ± 2.231e−05
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.009453
Std Dev 0.9946
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

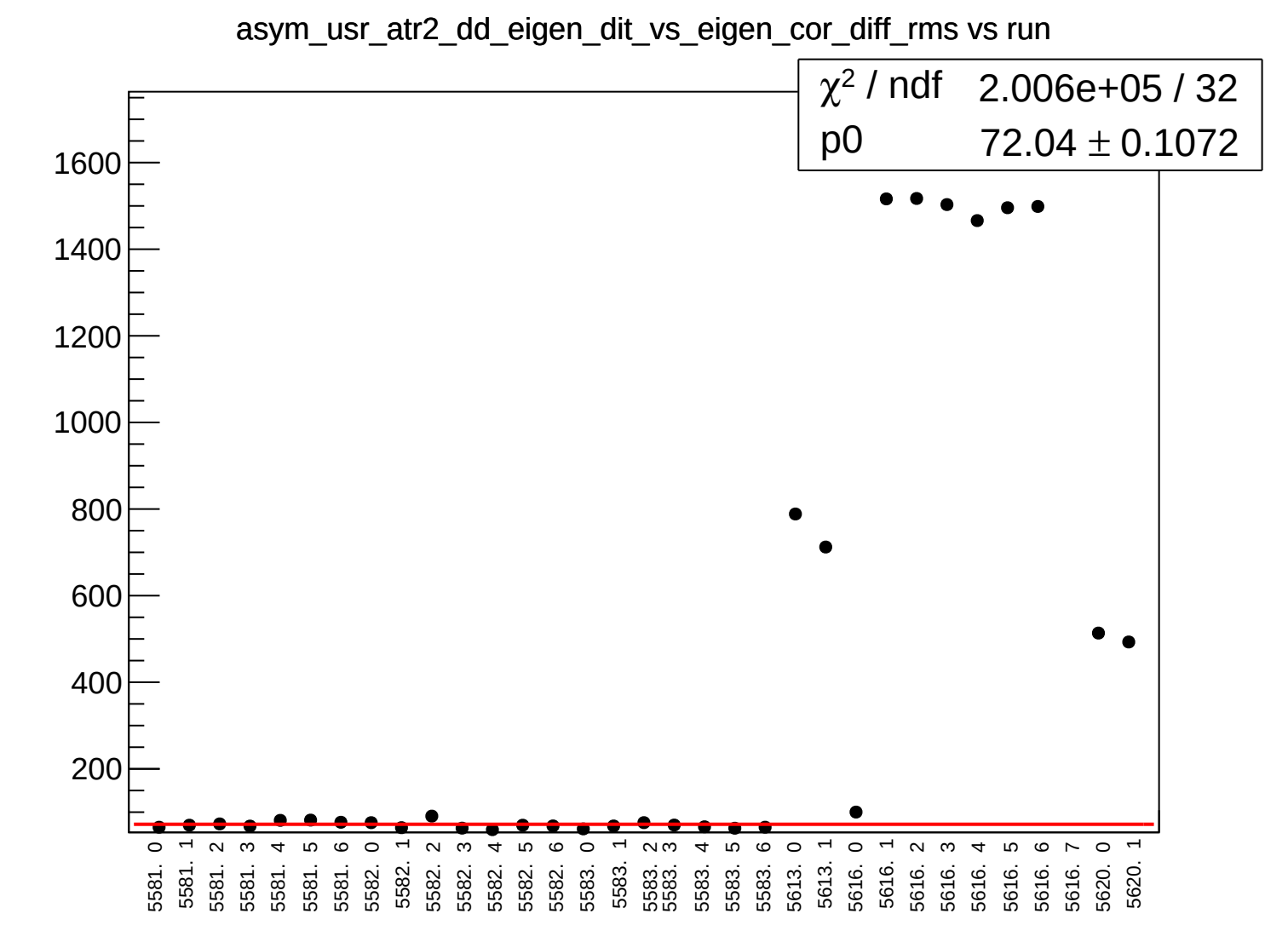

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2166 / 32
p0 0.01272 ± 1.578e−05
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

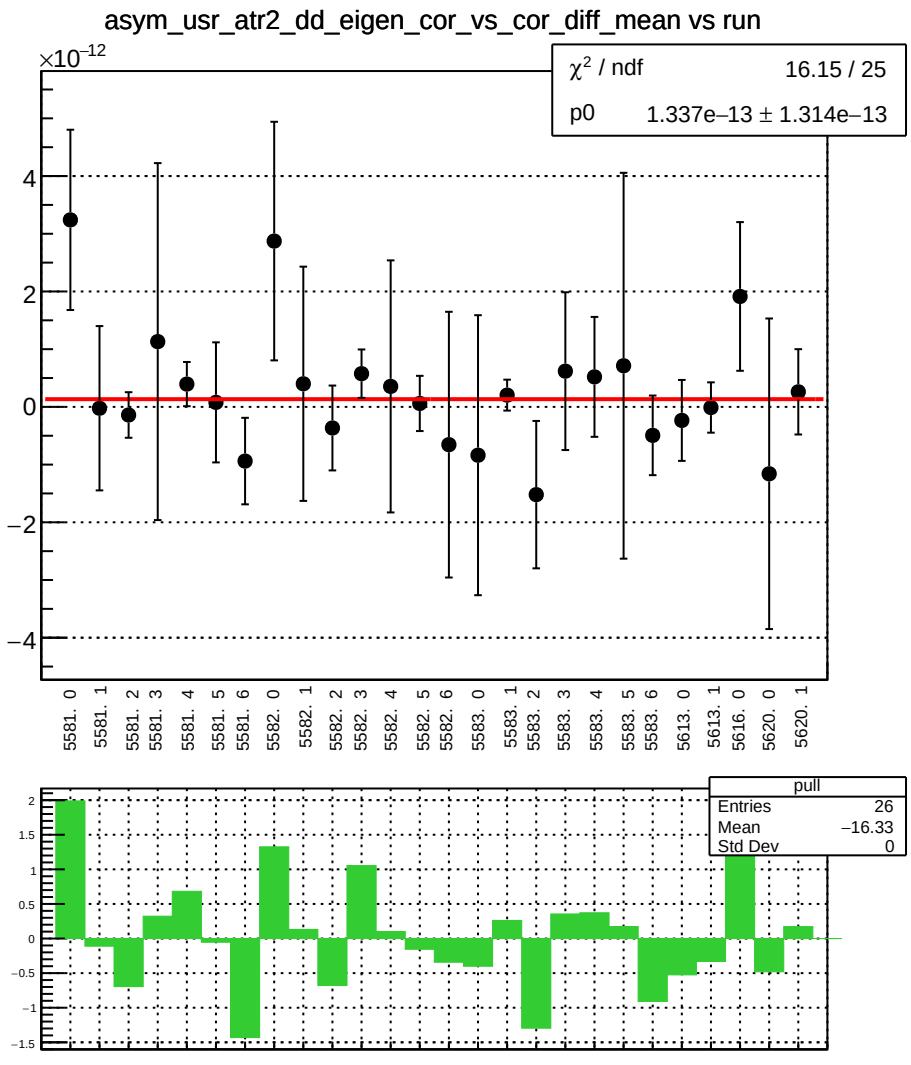

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.58 / 32
p0 −0.116 ± 0.1516
40
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.95
Std Dev 12.94
2
1.5
1
0.5
0
−0.5
−1
−1.5

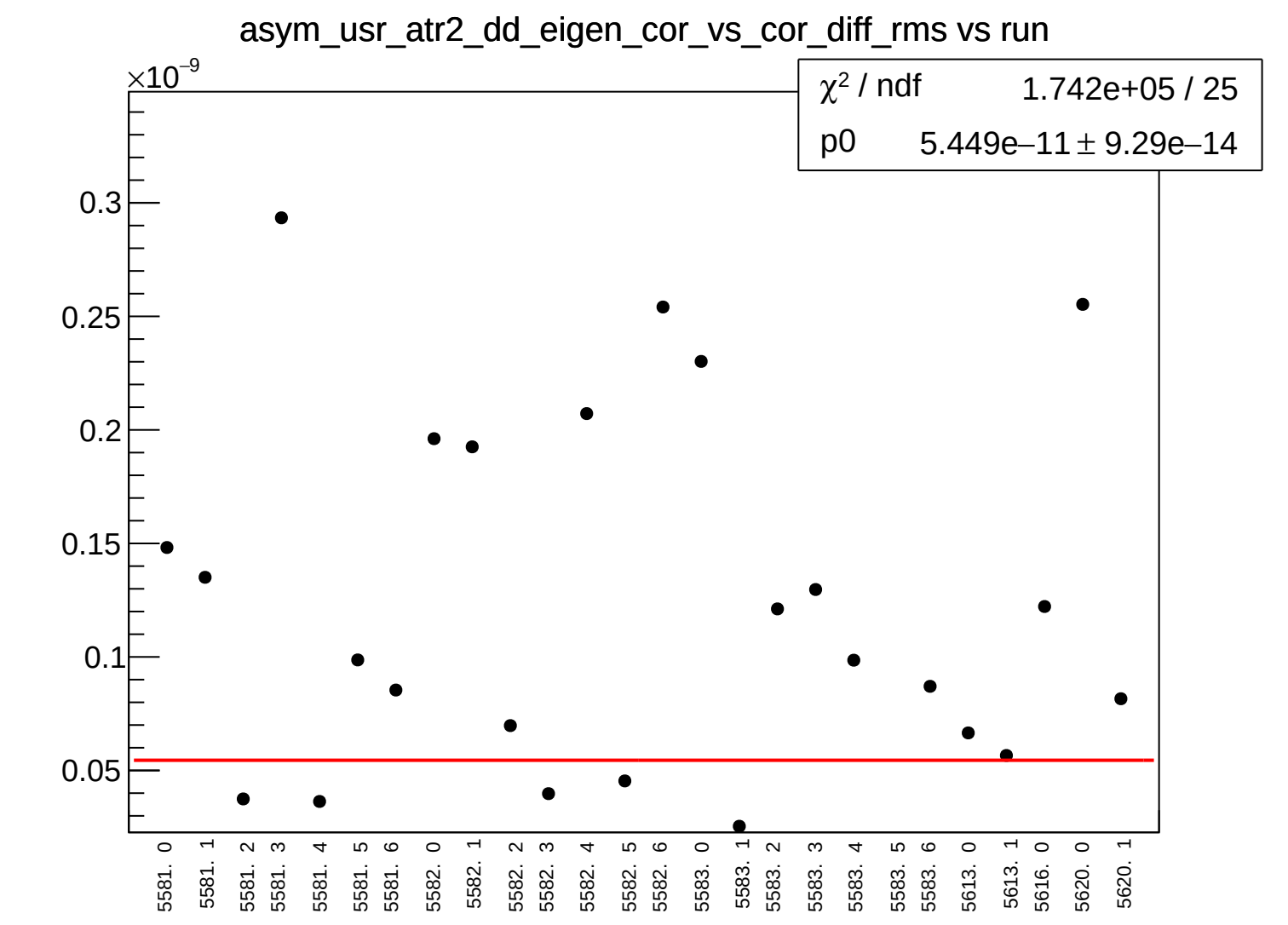

pull1D
Entries 33
Mean 0.1207
Std Dev 0.872
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

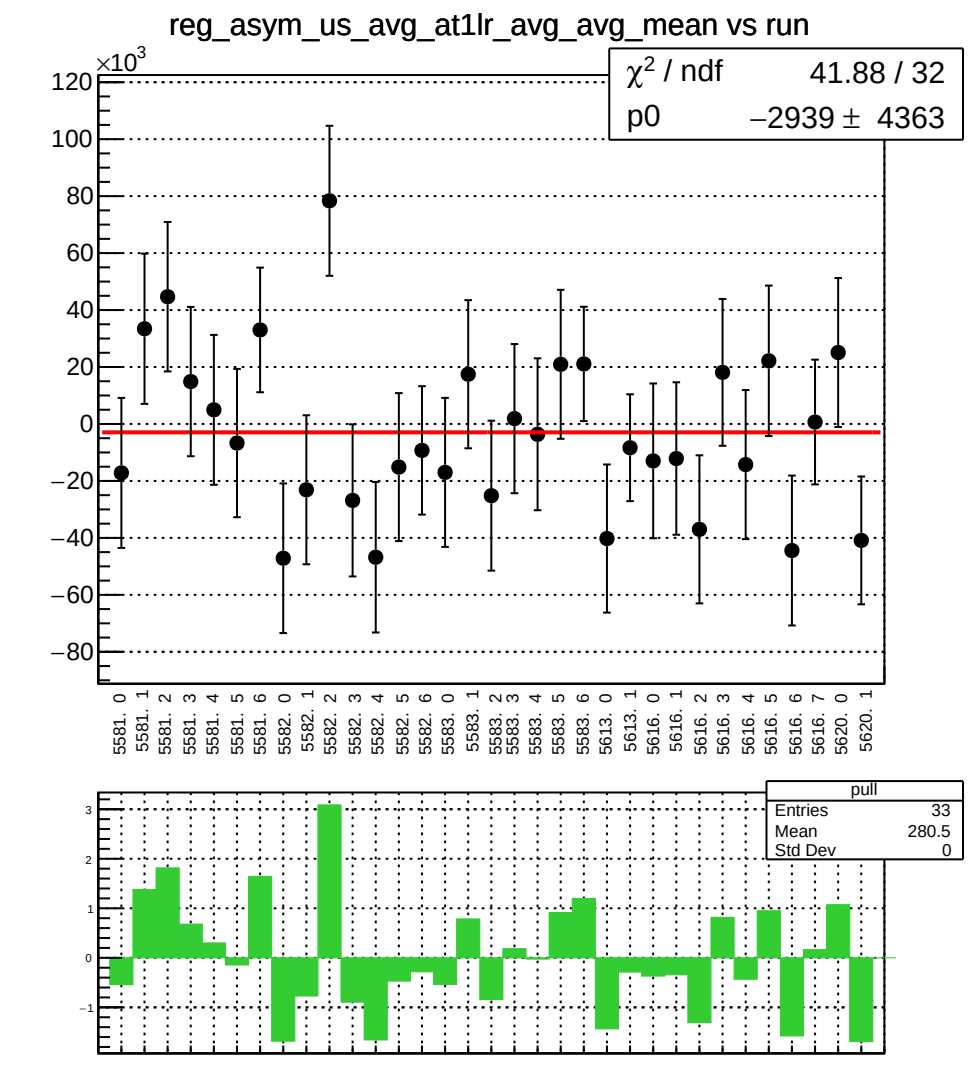

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.006e+05 / 32
p0 72.04 ± 0.1072
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

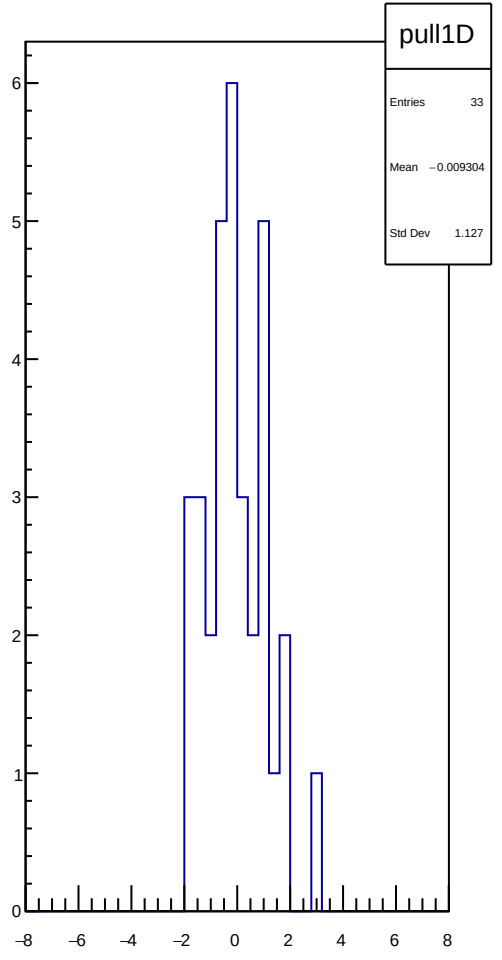

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.58 / 32
p0 −0.116 ± 0.1516
40
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.95
Std Dev 12.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1207
Std Dev 0.872
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

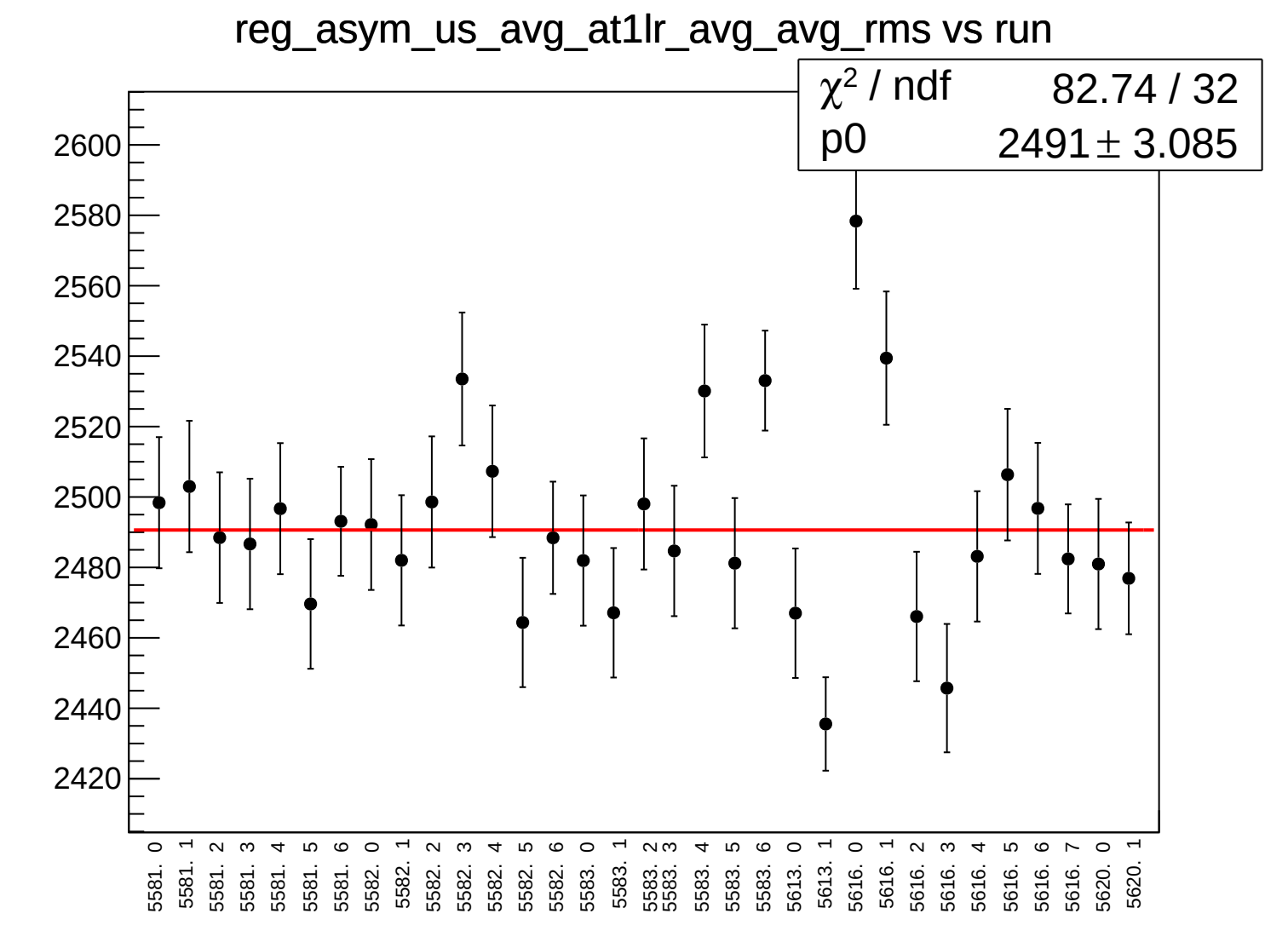

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.006e+05 / 32
p0 72.04 ± 0.1072
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

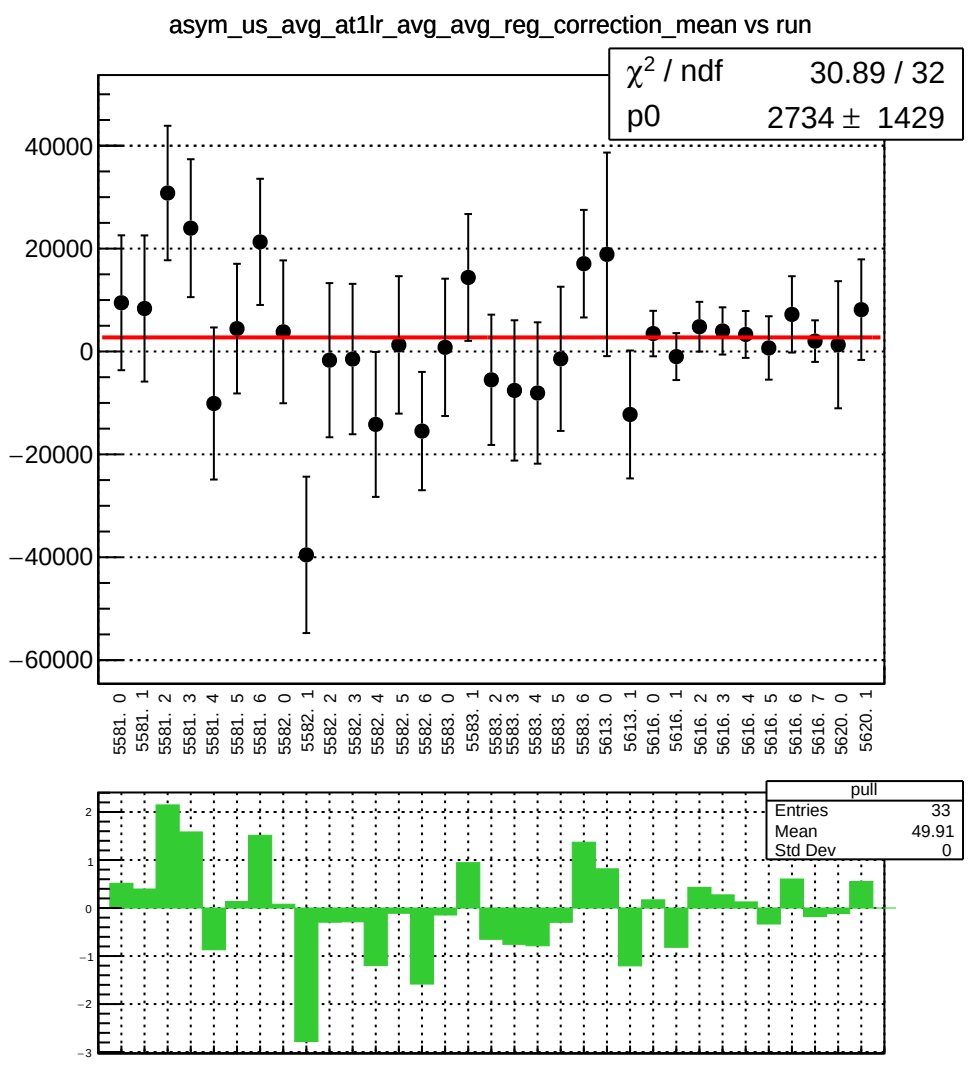

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 16.15 / 25
p0 1.337e−13 ± 1.314e−13
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −16.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.03521
Std Dev 0.7873
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

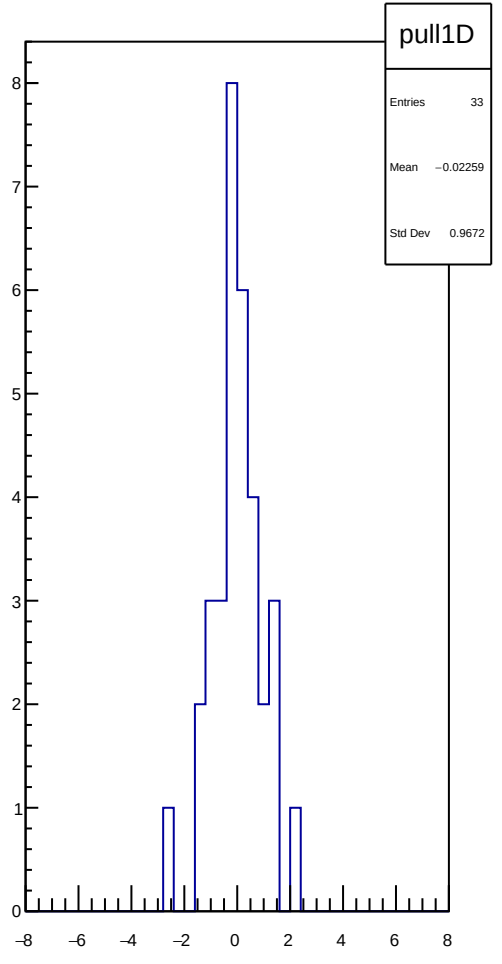

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.742e+05 / 25
p0 5.449e−11 ± 9.29e−14
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

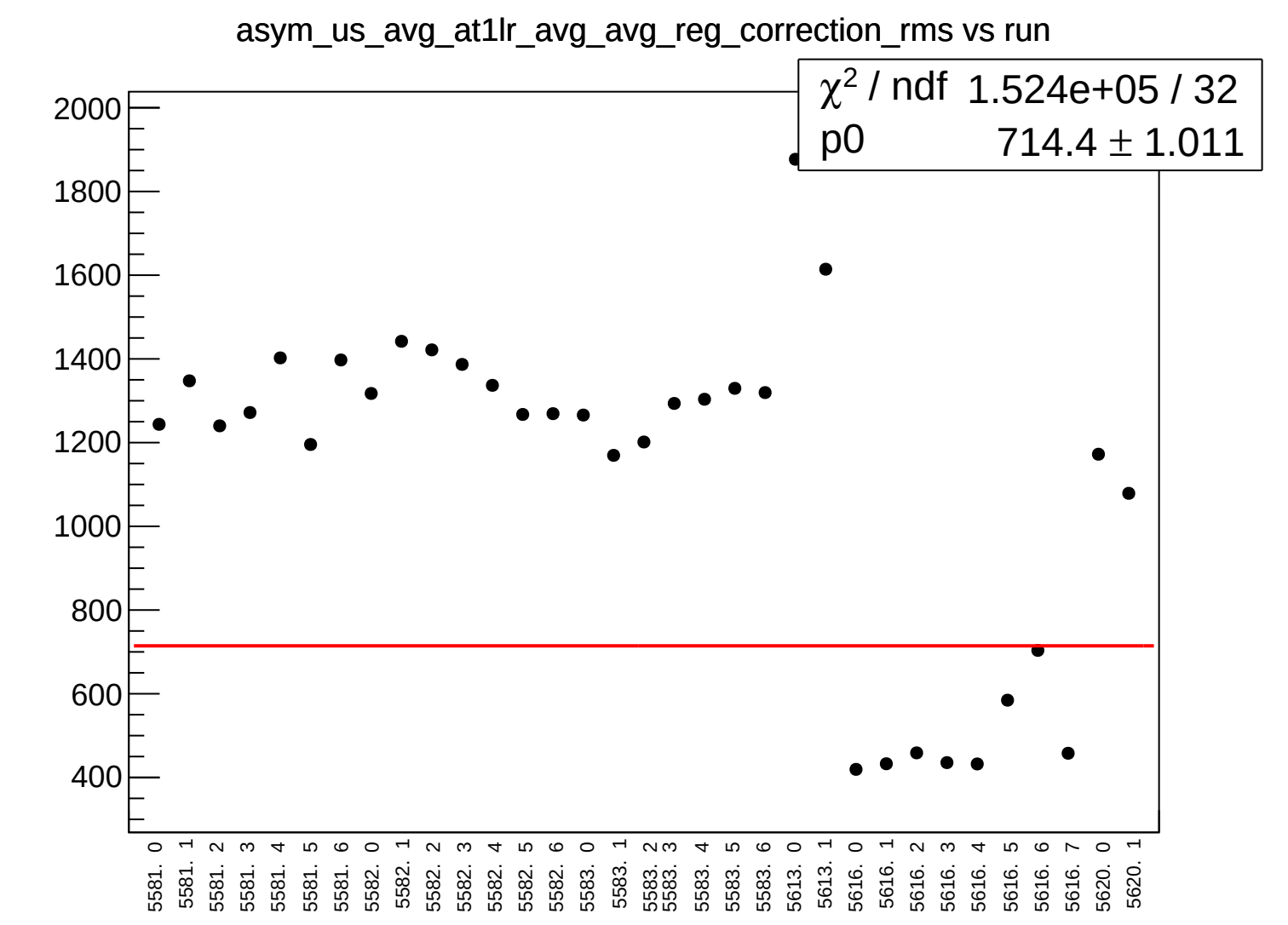

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 41.88 / 32
p0 −2939 ± 4363
120
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 280.5
Std Dev 0
3
2
1
0
−1

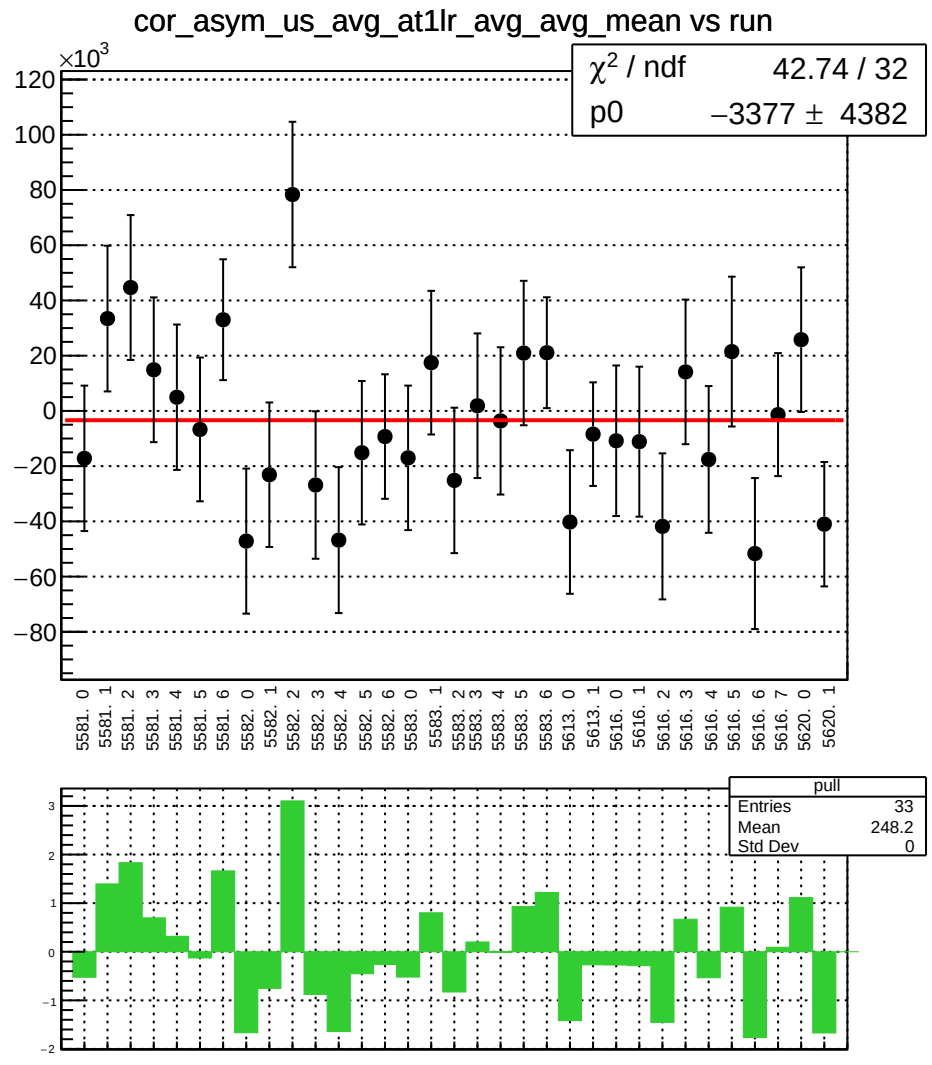

pull1D
Entries 33
Mean −0.009304
Std Dev 1.127
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

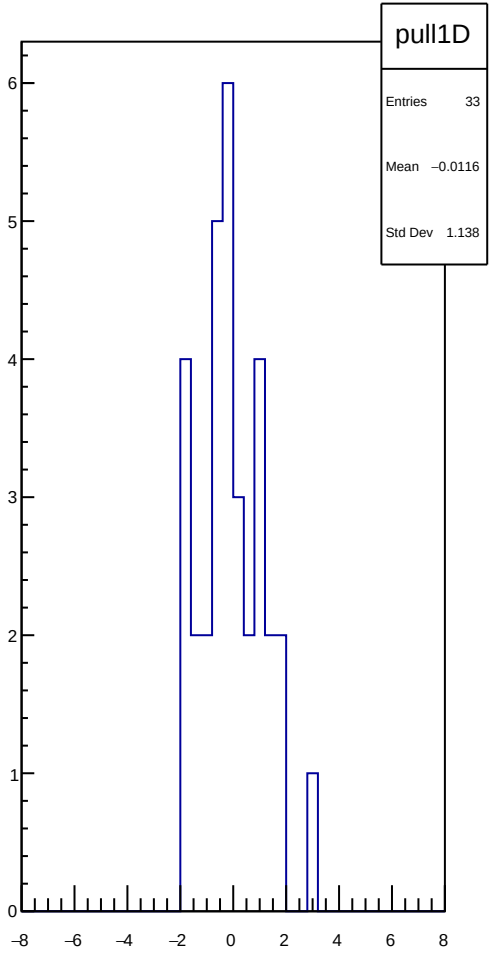

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 82.74 / 32
p0 2491 ± 3.085
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

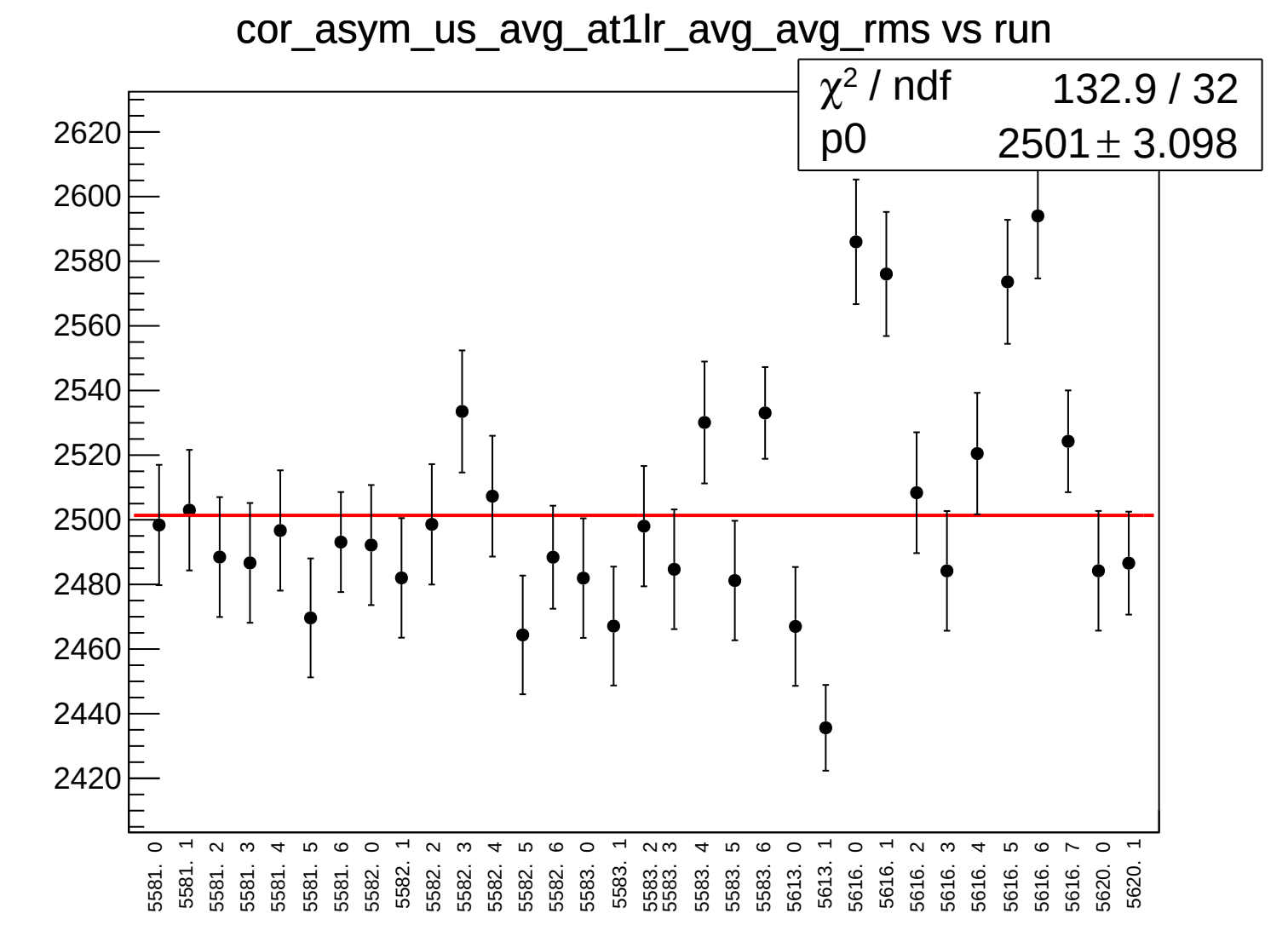

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 30.89 / 32
p0 2734 ± 1429
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.91
Std Dev 0
2
1
0
−1
−2
−3

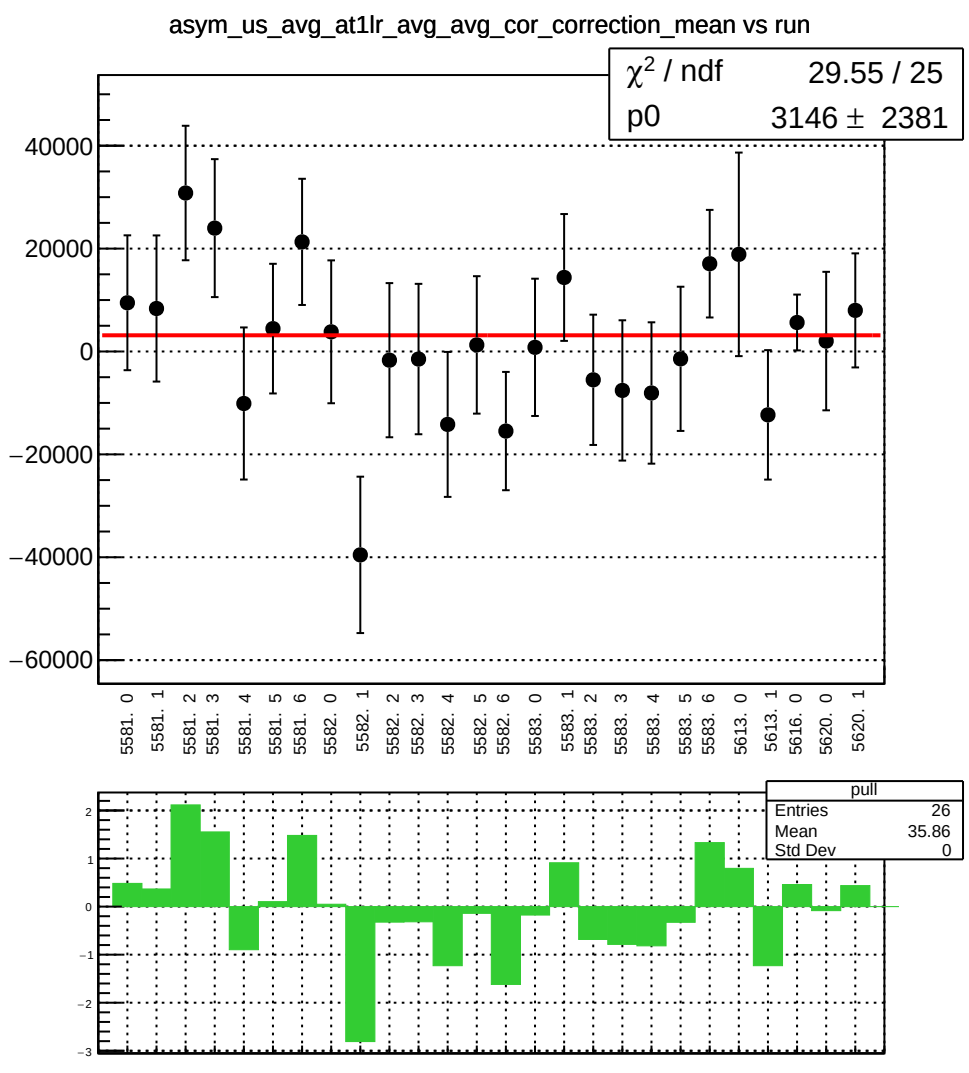

pull1D
Entries 33
Mean −0.02259
Std Dev 0.9672
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

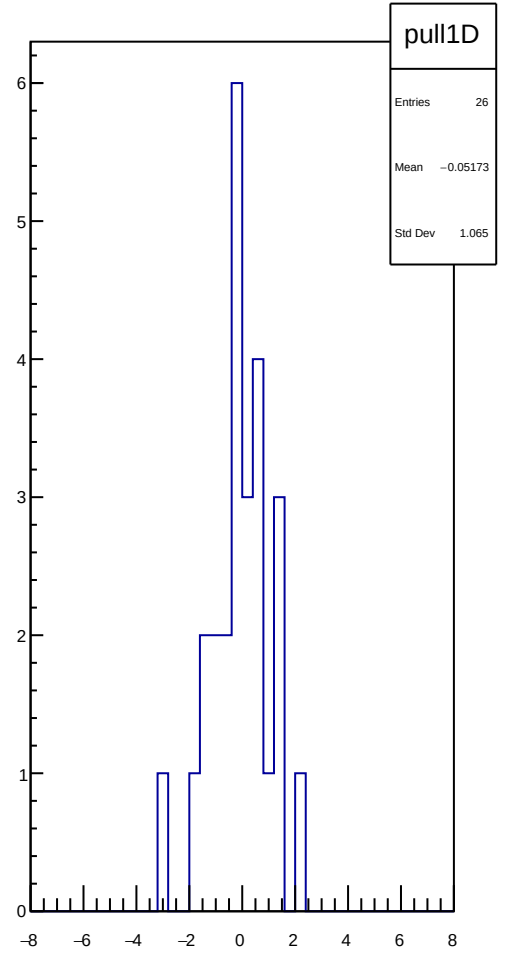

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.524e+05 / 32
p0 714.4 ± 1.011
2000
1800
1600
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

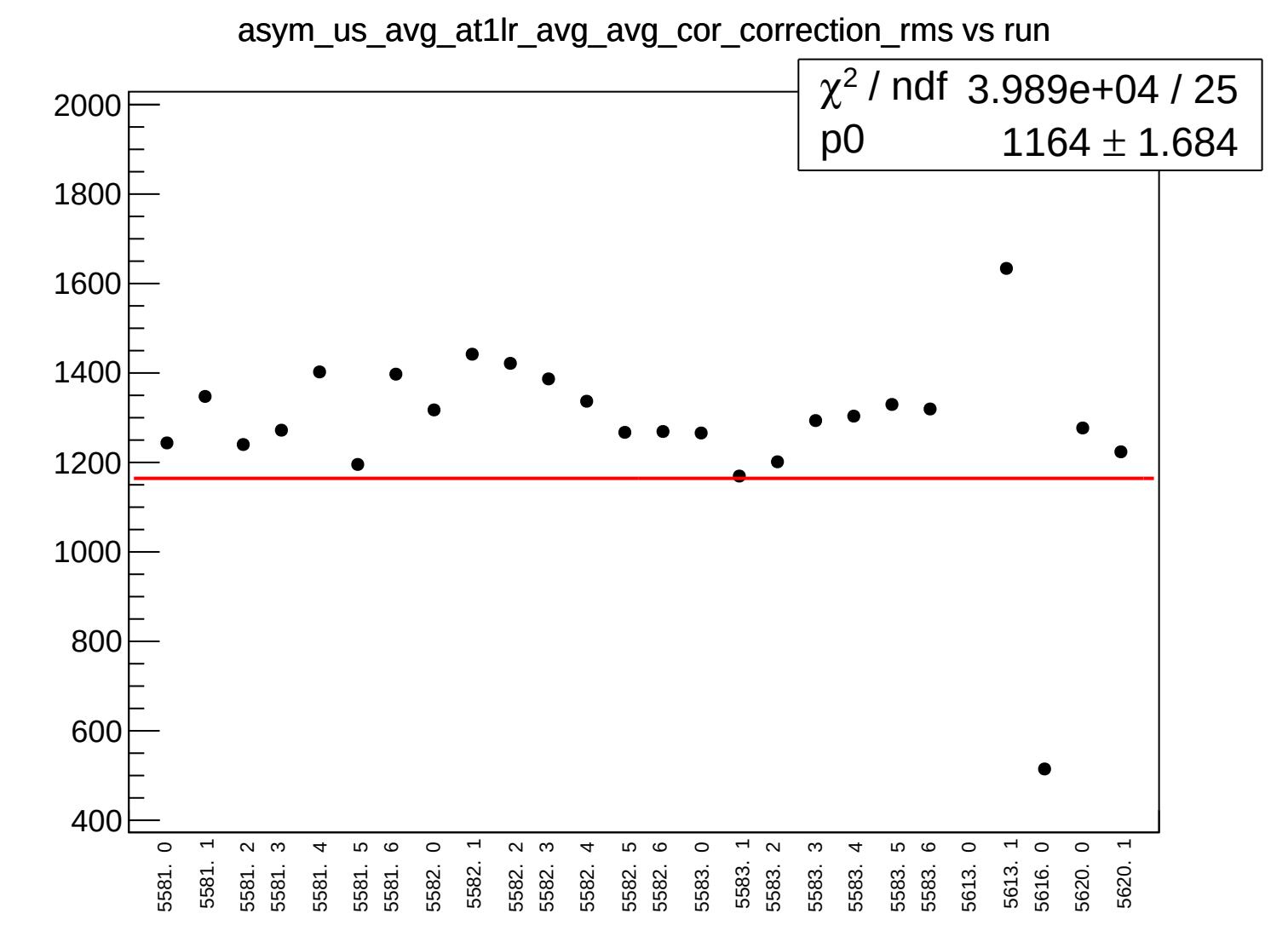

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 42.74 / 32
p0 −3377 ± 4382
120
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 248.2
Std Dev 0
3
2
1
0
−1
−2

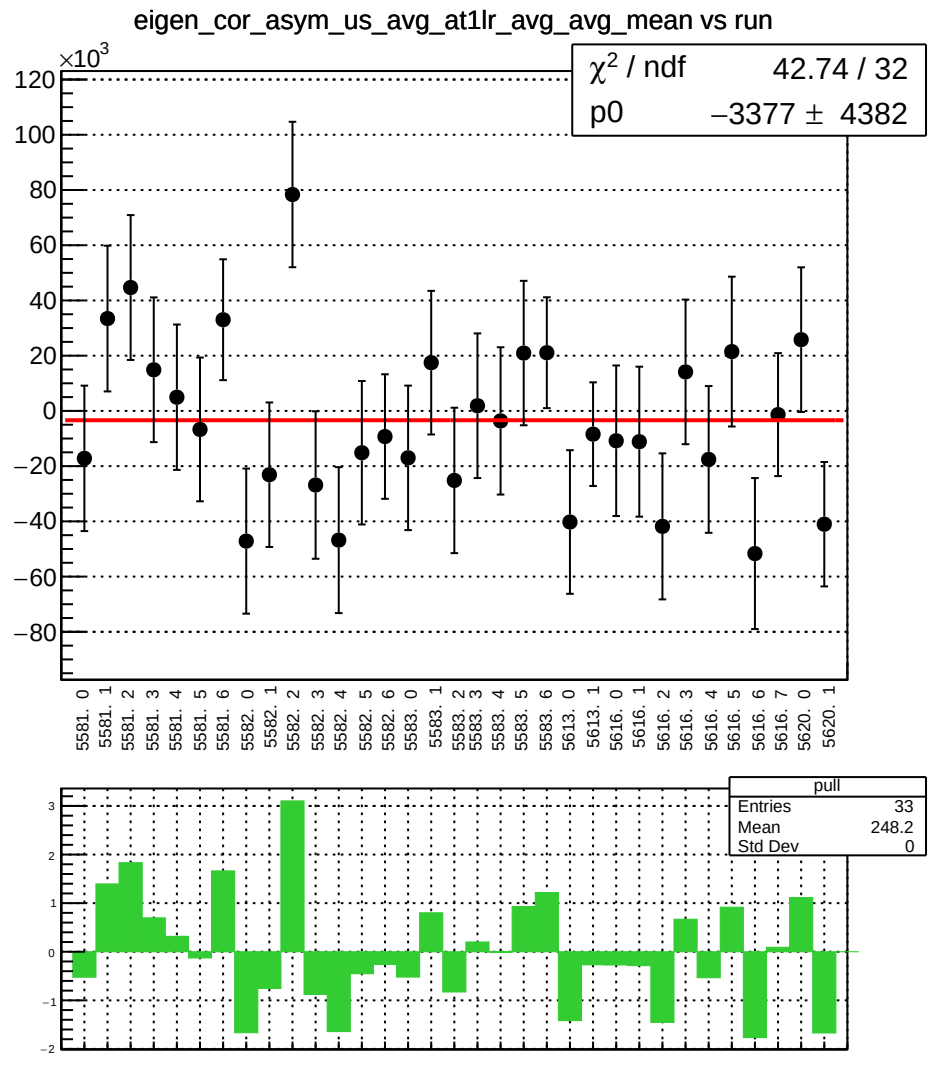

pull1D
Entries 33
Mean −0.0116
Std Dev 1.138
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

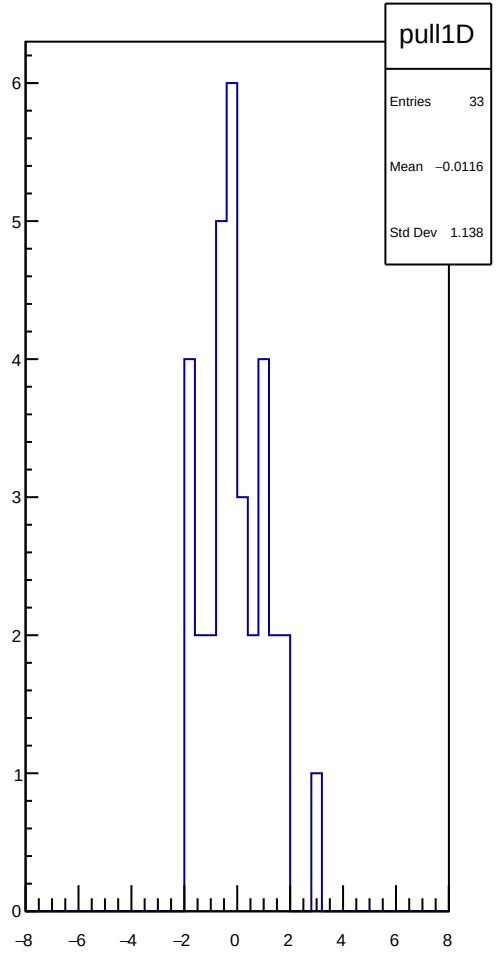

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 132.9 / 32
p0 2501 ± 3.098
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

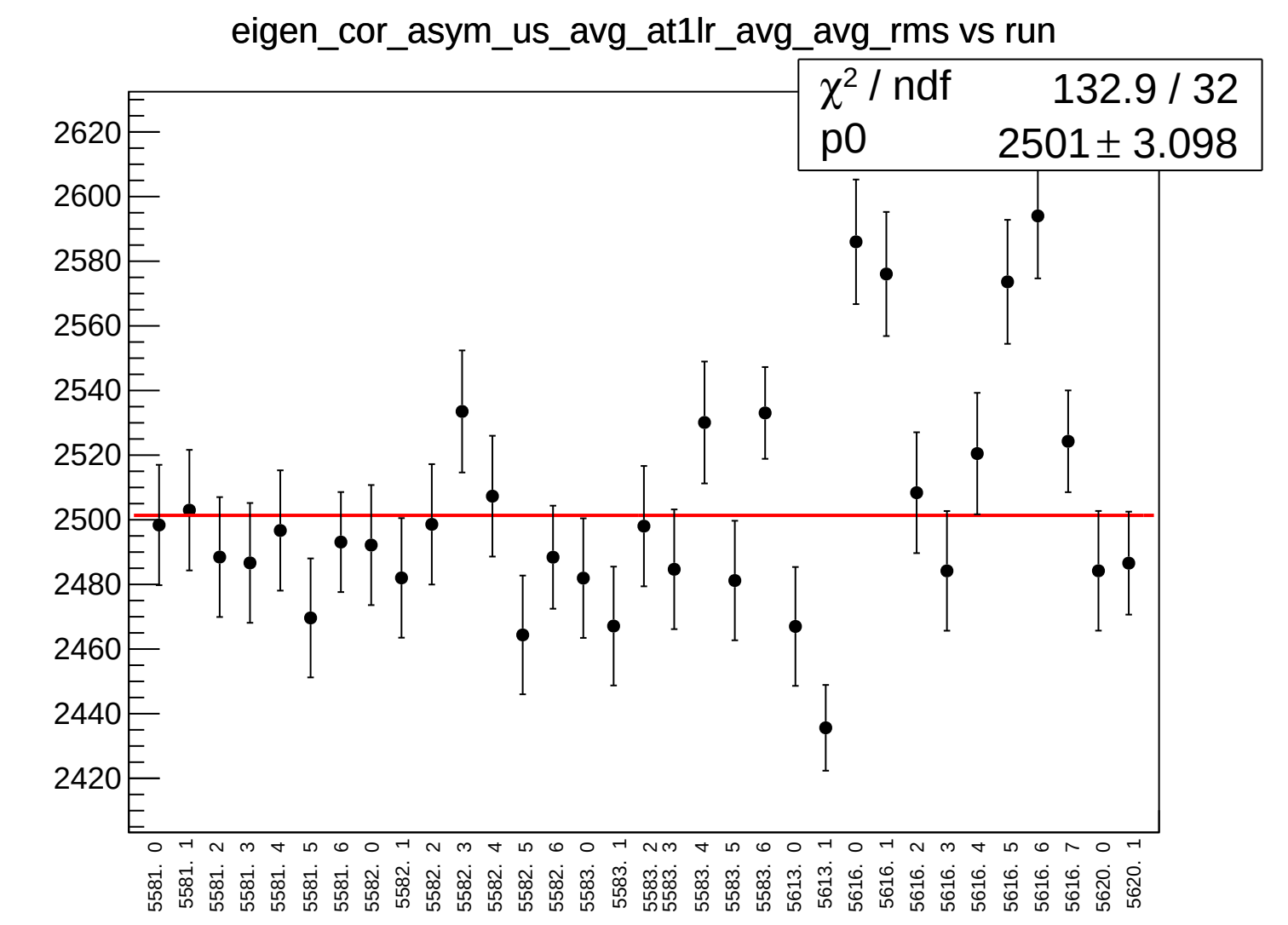

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 29.55 / 25
p0 3146 ± 2381
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 35.86
Std Dev 0
2
1
0
−1
−2
−3

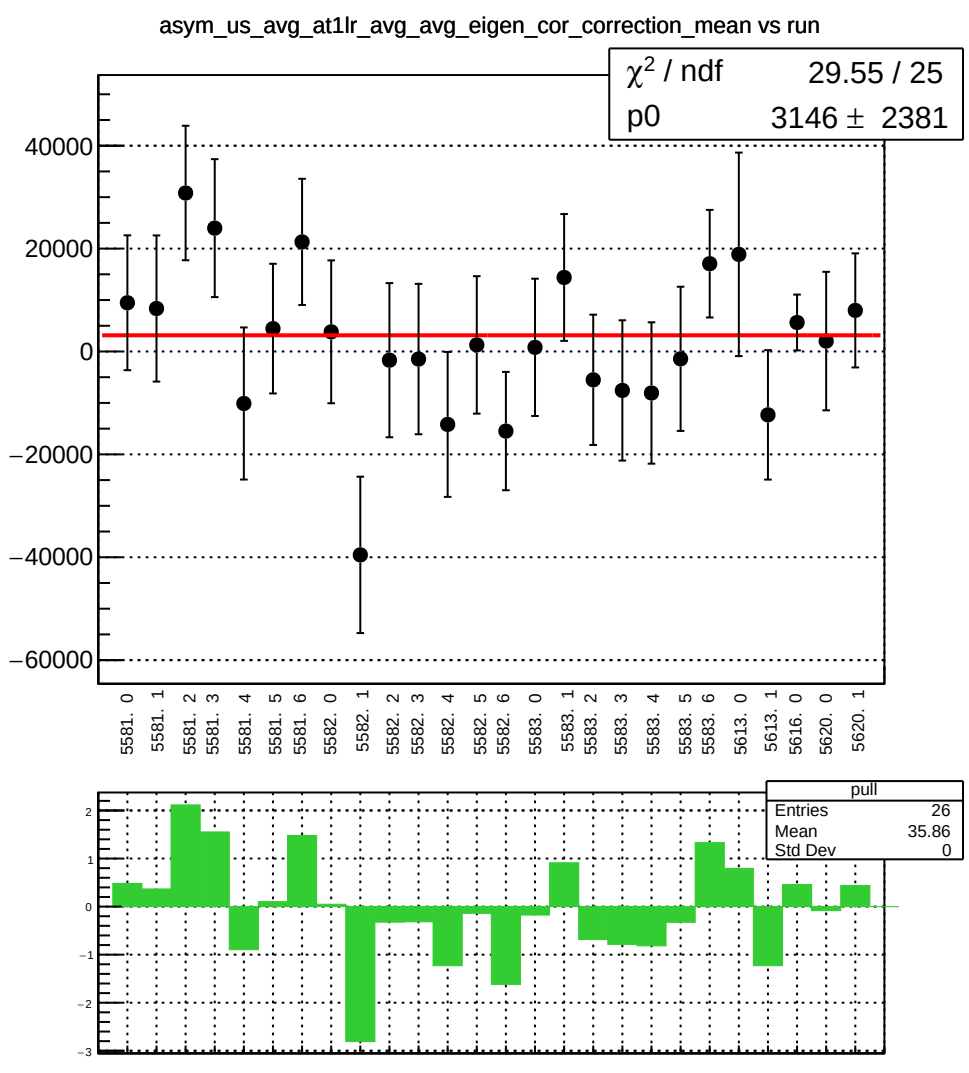

pull1D
Entries 26
Mean −0.05173
Std Dev 1.065
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

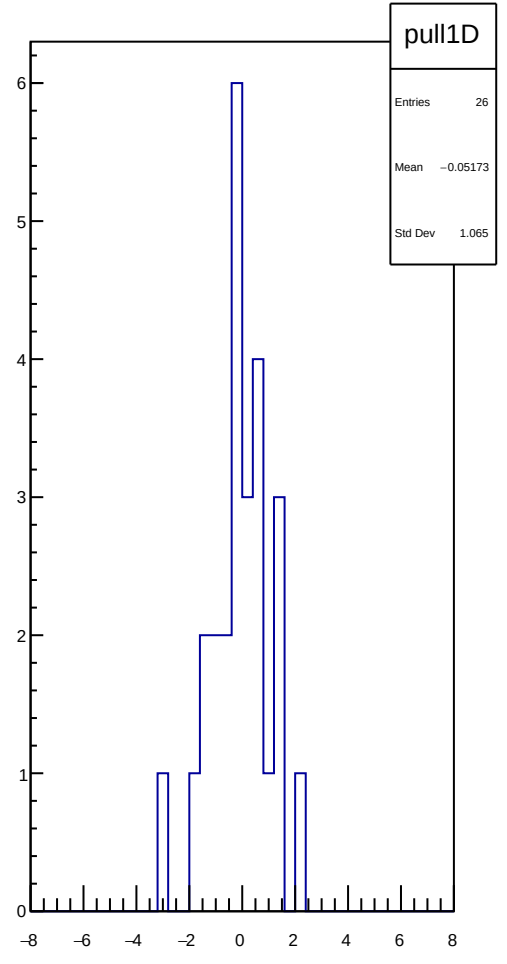

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.989e+04 / 25
p0 1164 ± 1.684
2000
1800
1600
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

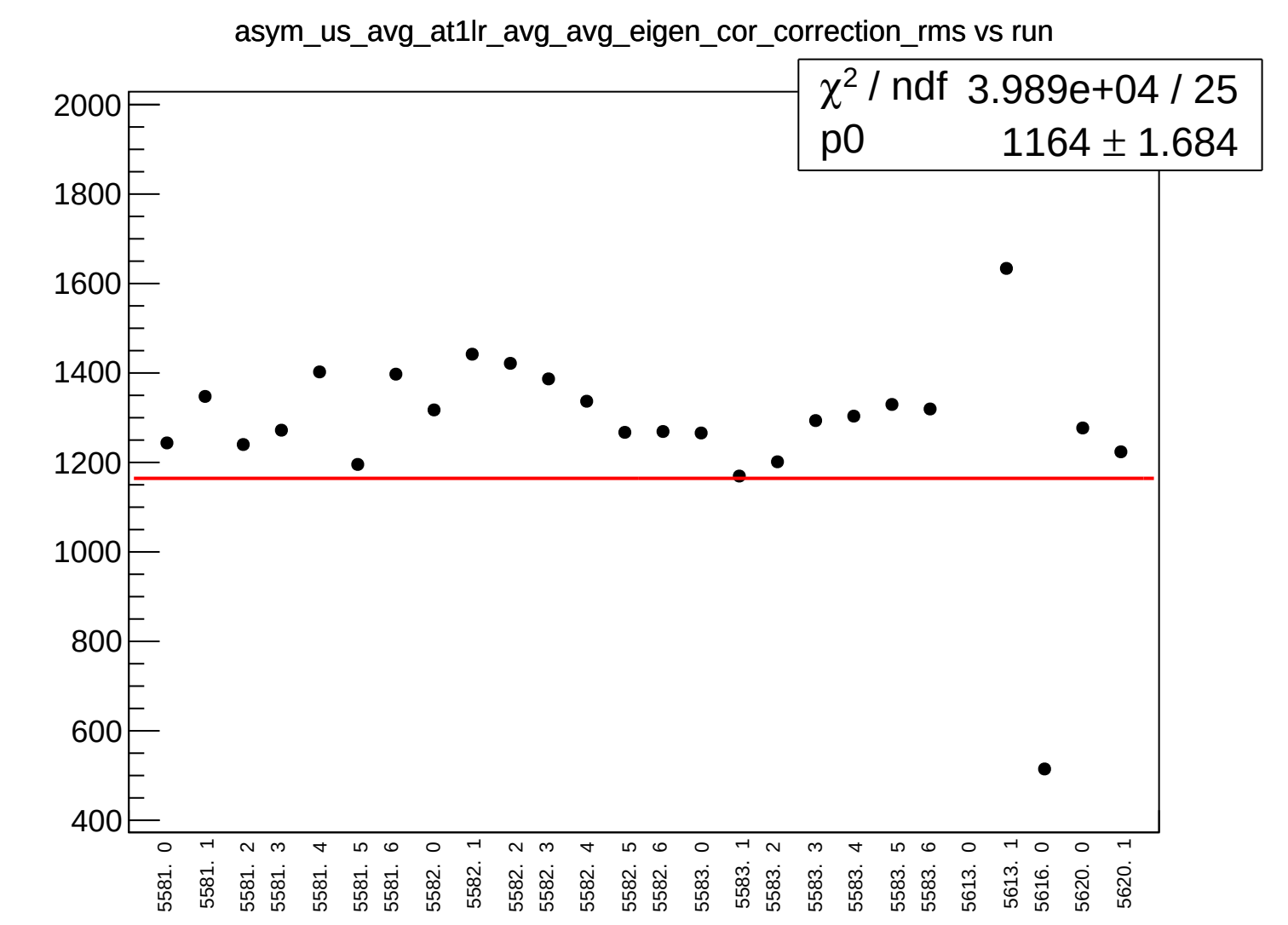

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 42.74 / 32
p0 −3377 ± 4382
120
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 248.2
Std Dev 0
3
2
1
0
−1
−2

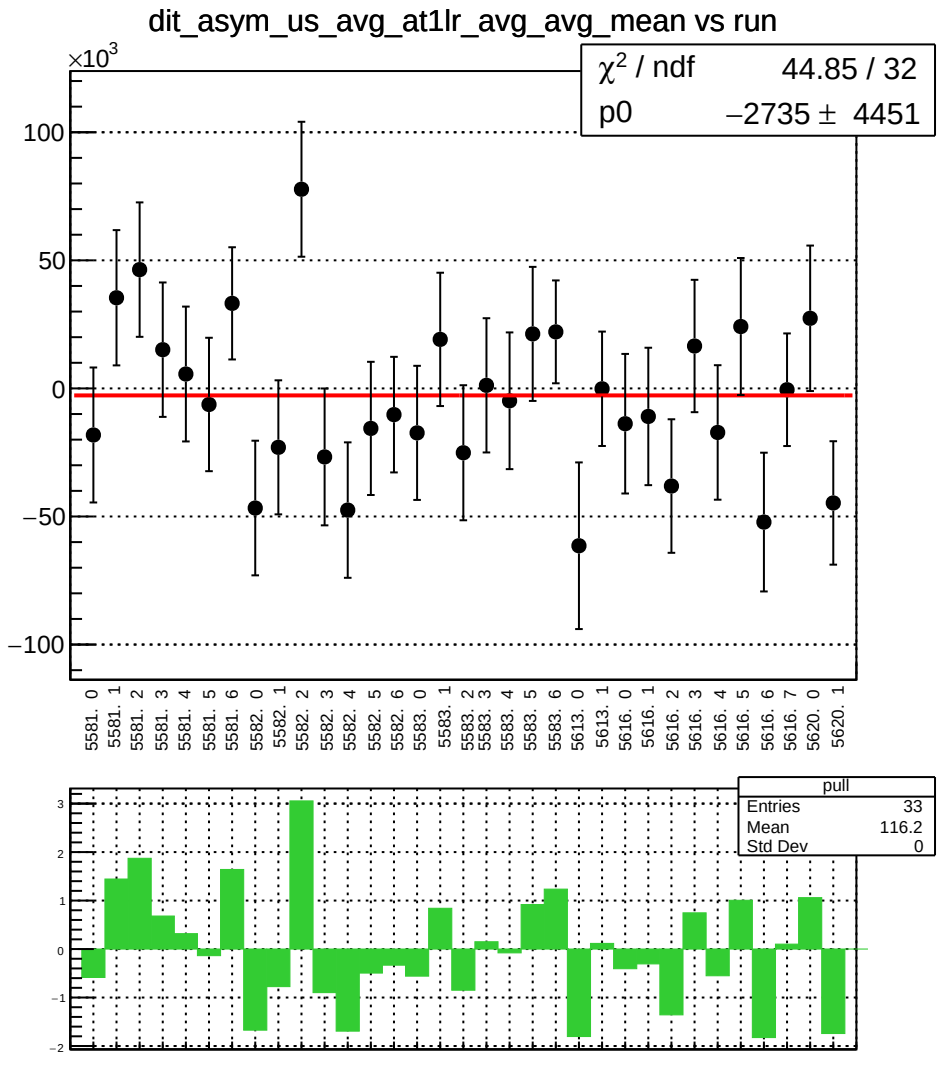

pull1D
Entries 33
Mean −0.0116
Std Dev 1.138
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

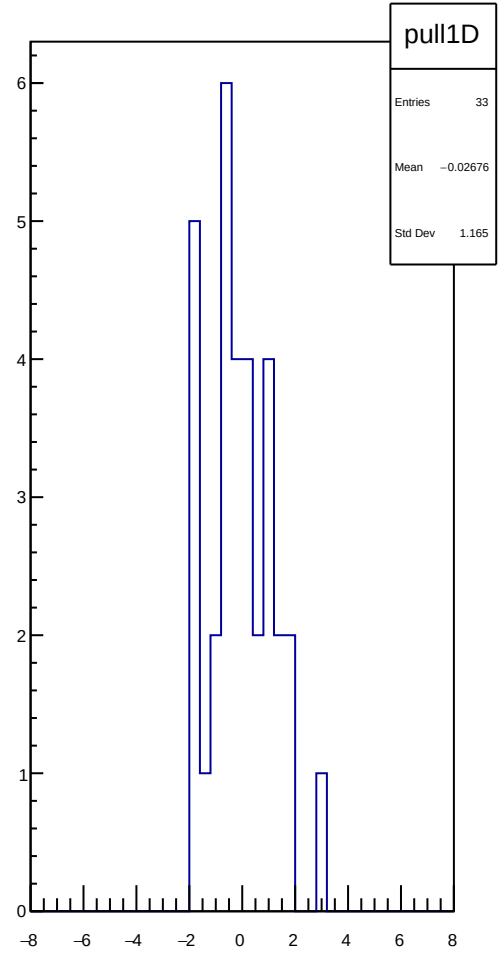

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 132.9 / 32
p0 2501 ± 3.098
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

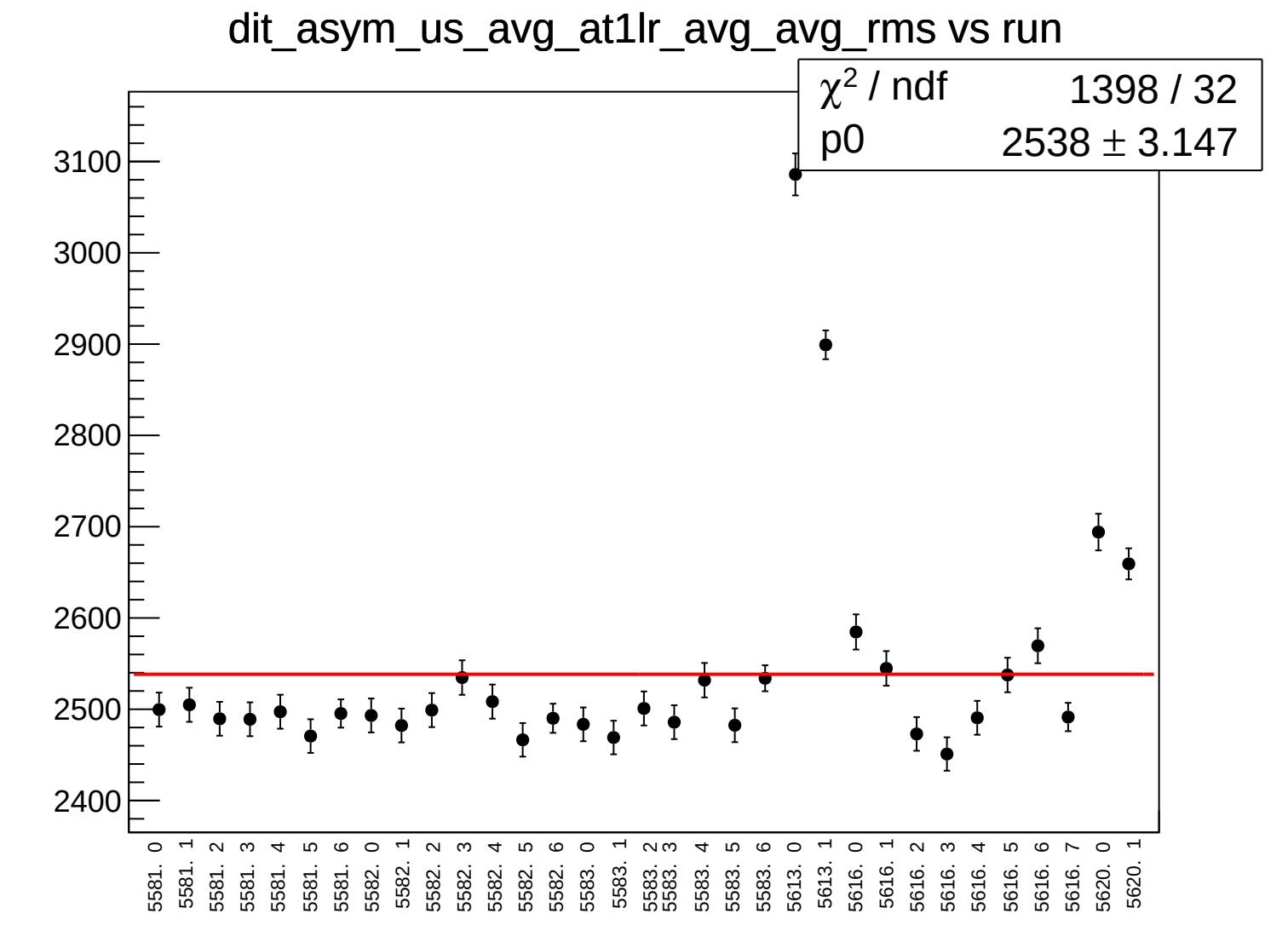

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 29.55 / 25
p0 3146 ± 2381
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 35.86
Std Dev 0
2
1
0
−1
−2
−3

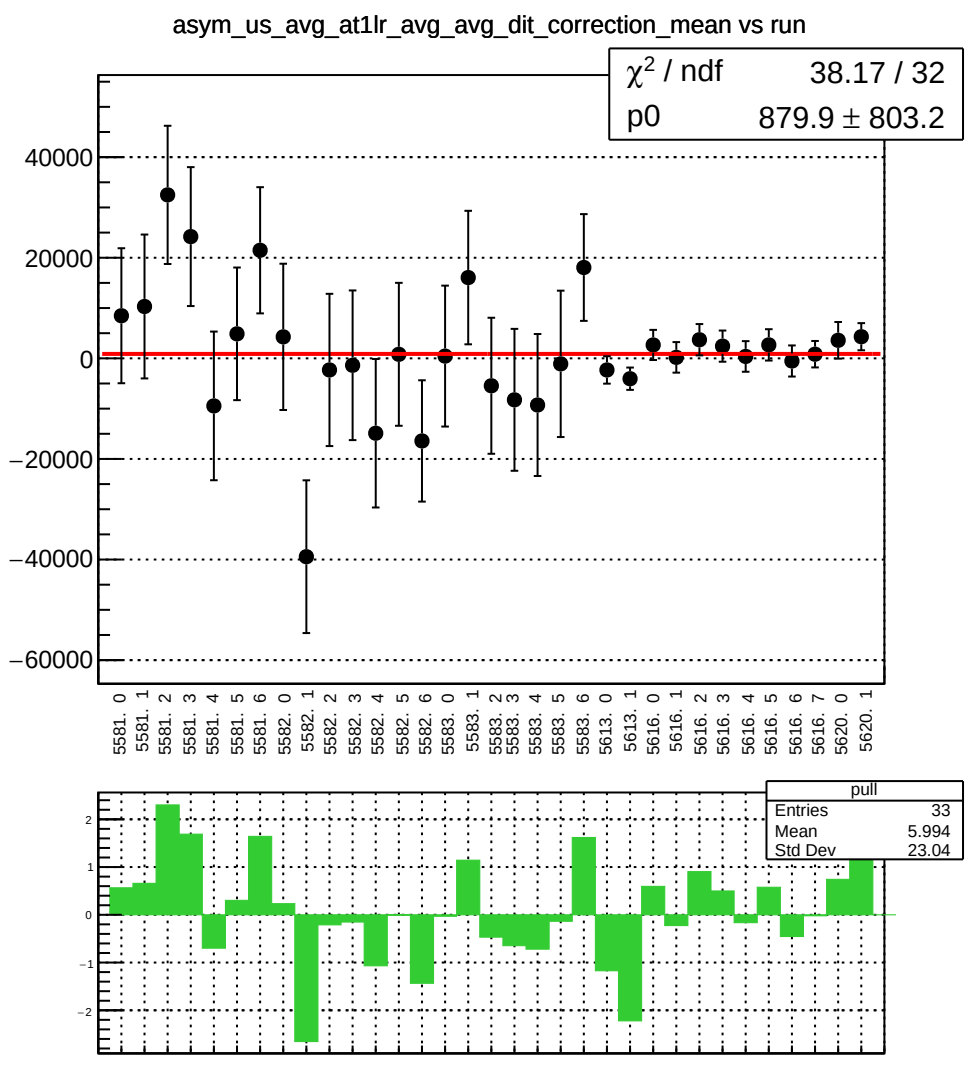

pull1D
Entries 26
Mean −0.05173
Std Dev 1.065
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

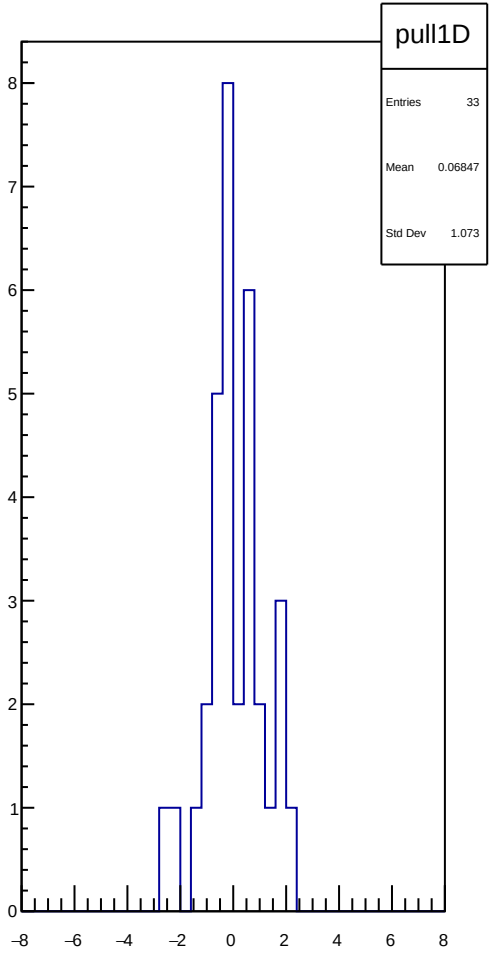

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.989e+04 / 25
p0 1164 ± 1.684
2000
1800
1600
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

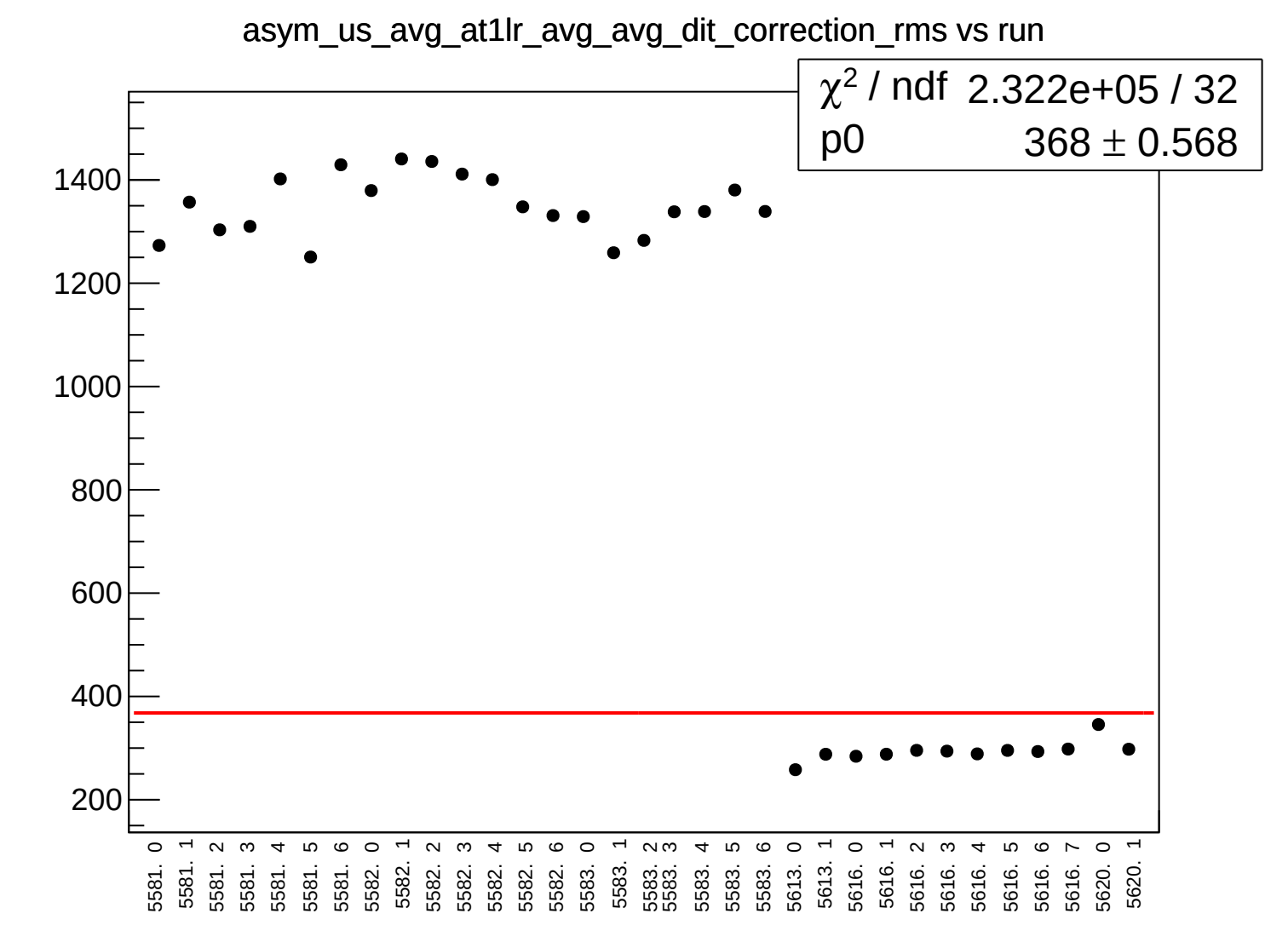

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 44.85 / 32
p0 −2735 ± 4451
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 116.2
Std Dev 0
3
2
1
0
−1
−2

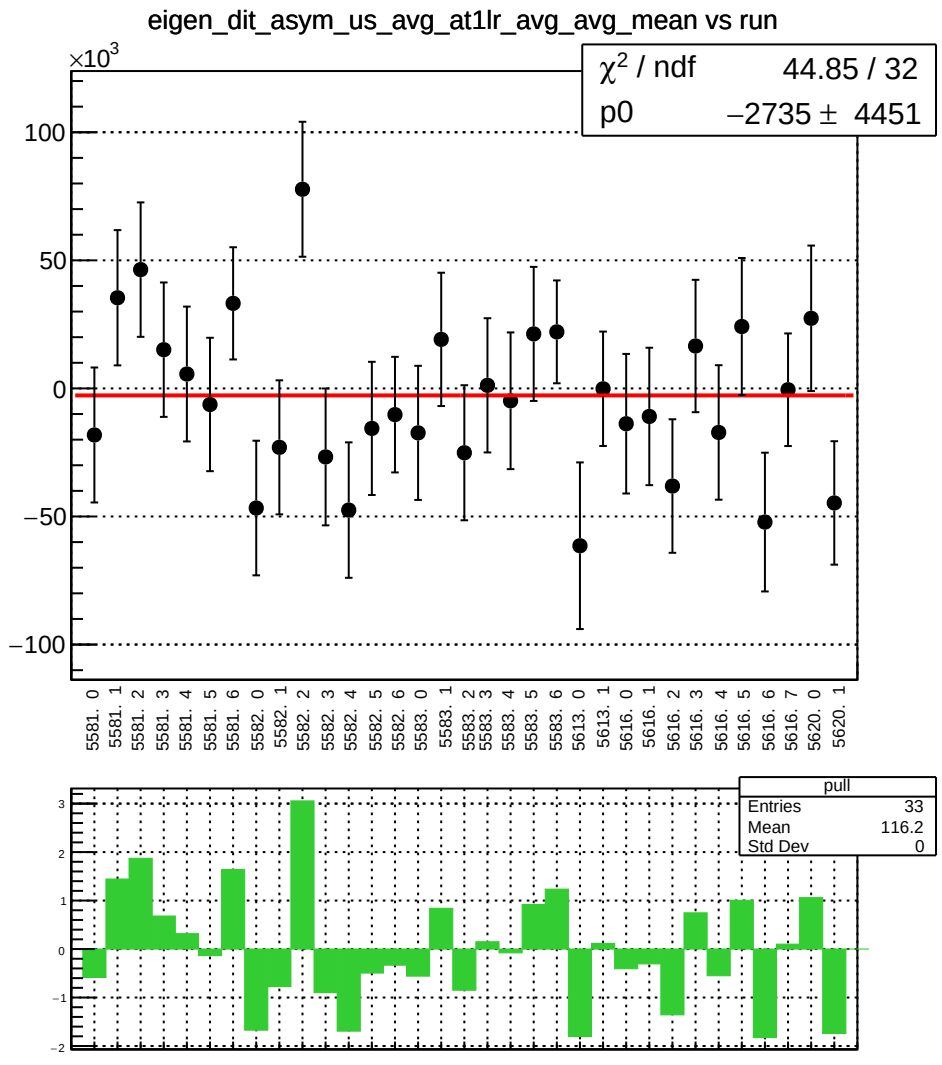

pull1D
Entries 33
Mean −0.02676
Std Dev 1.165
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

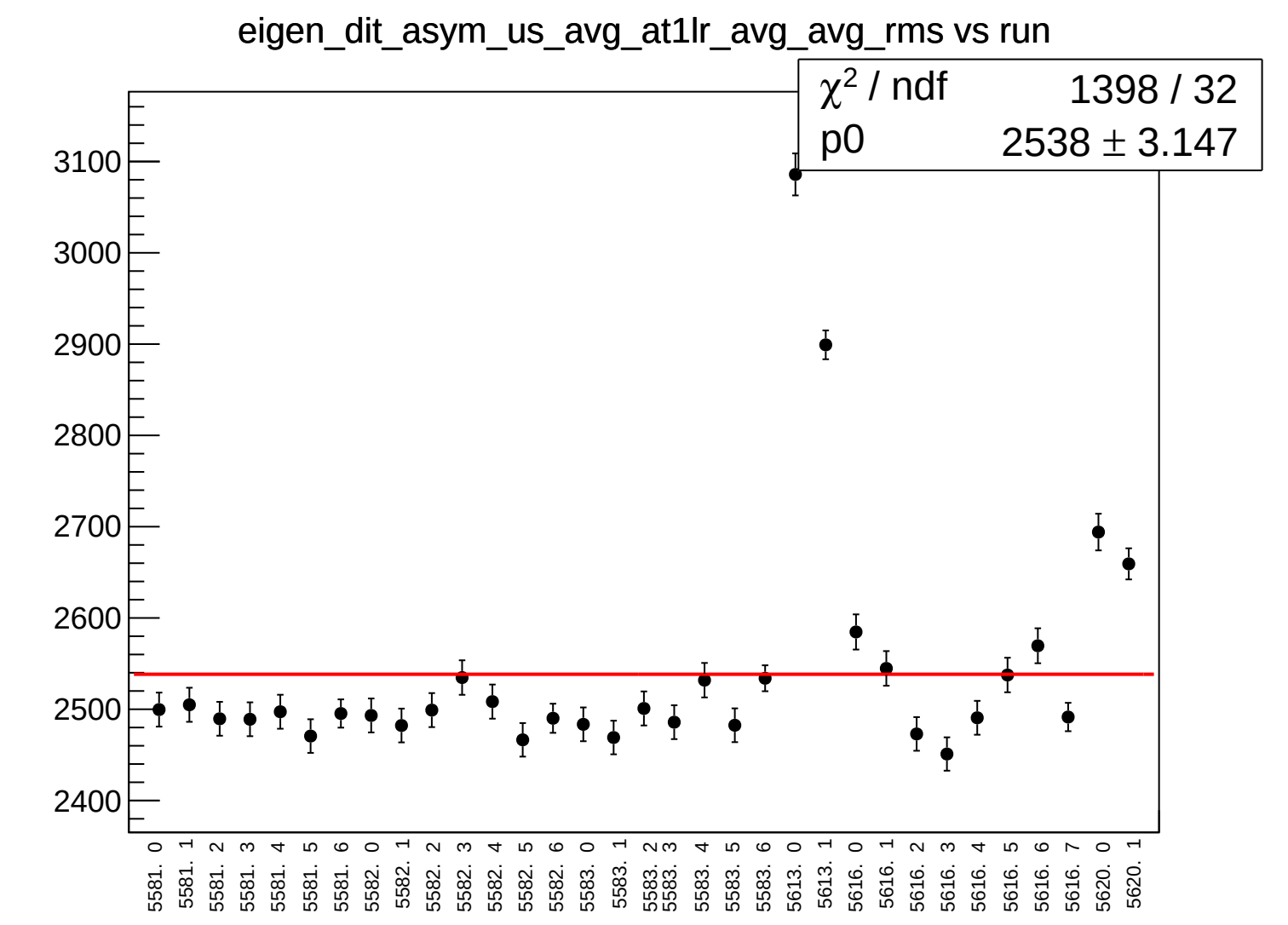

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1398 / 32
p0 2538 ± 3.147
3100
3000
2900
2800
2700
2600
2500
2400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

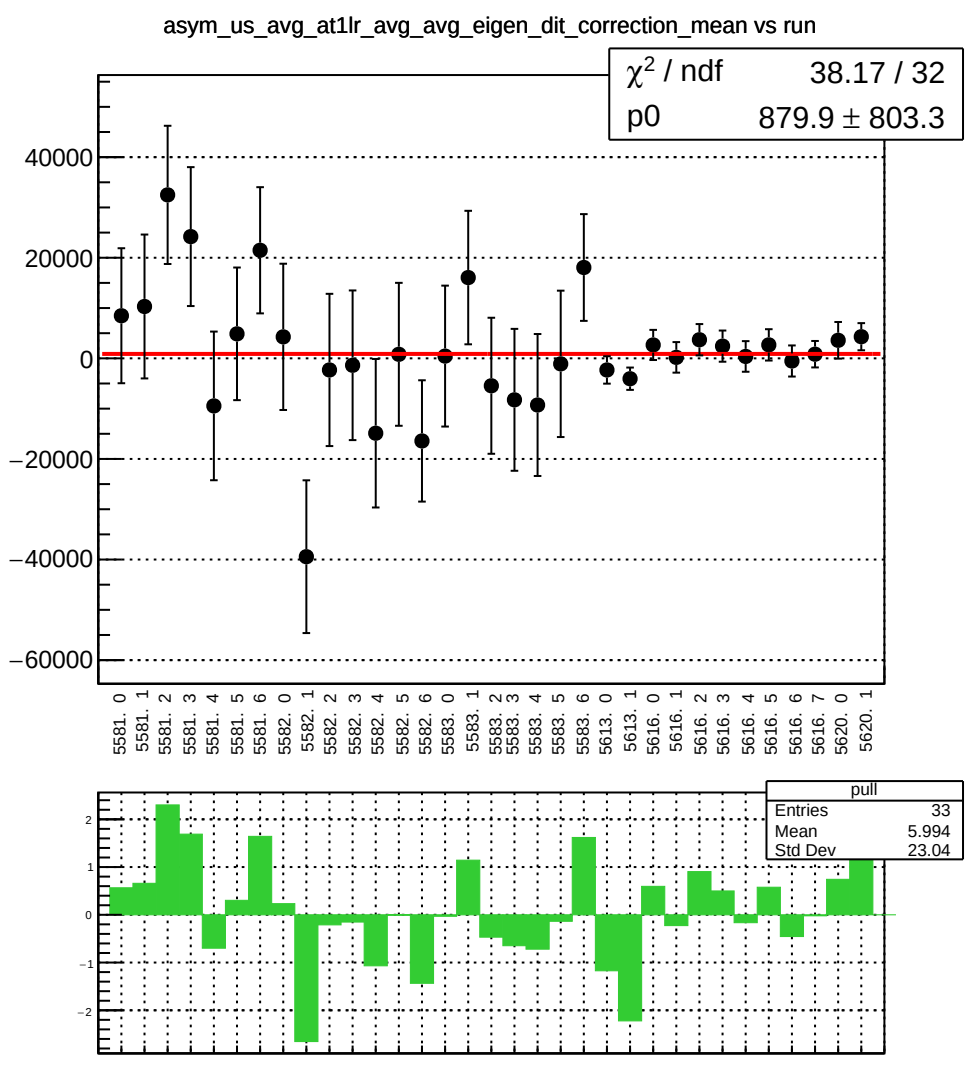

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 38.17 / 32
p0 879.9 ± 803.2
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5.994
Std Dev 23.04
2
1
0
−1
−2

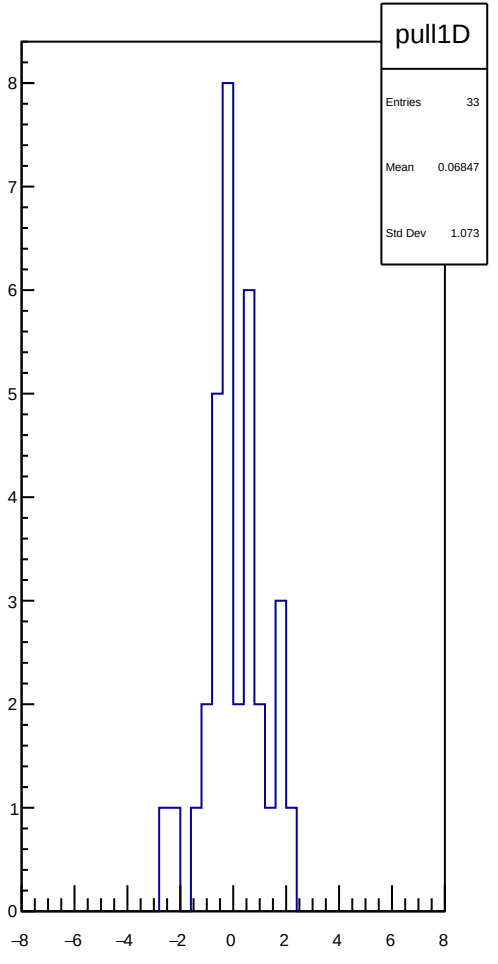

pull1D
Entries 33
Mean 0.06847
Std Dev 1.073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

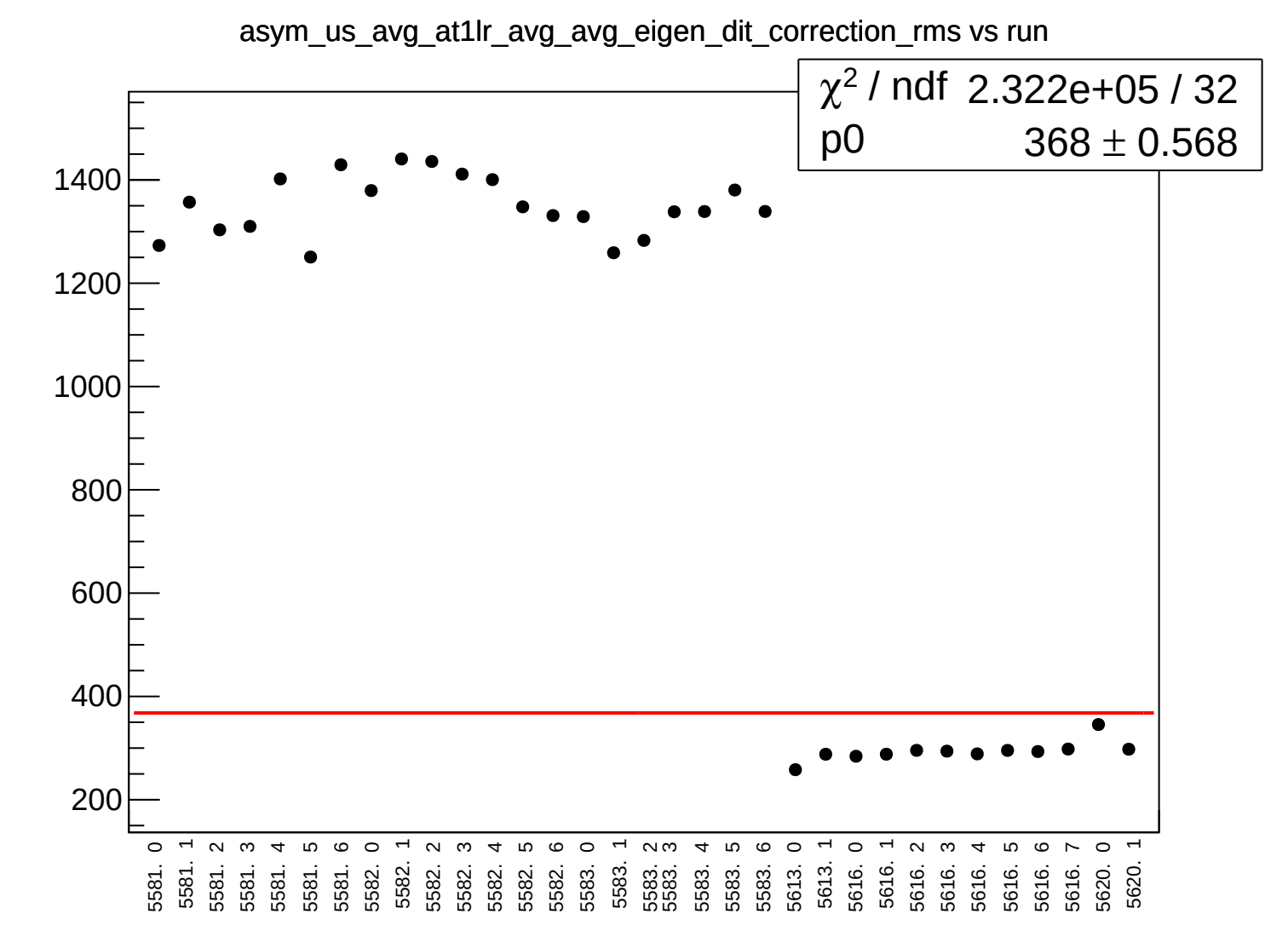

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.322e+05 / 32
p0 368 ± 0.568
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

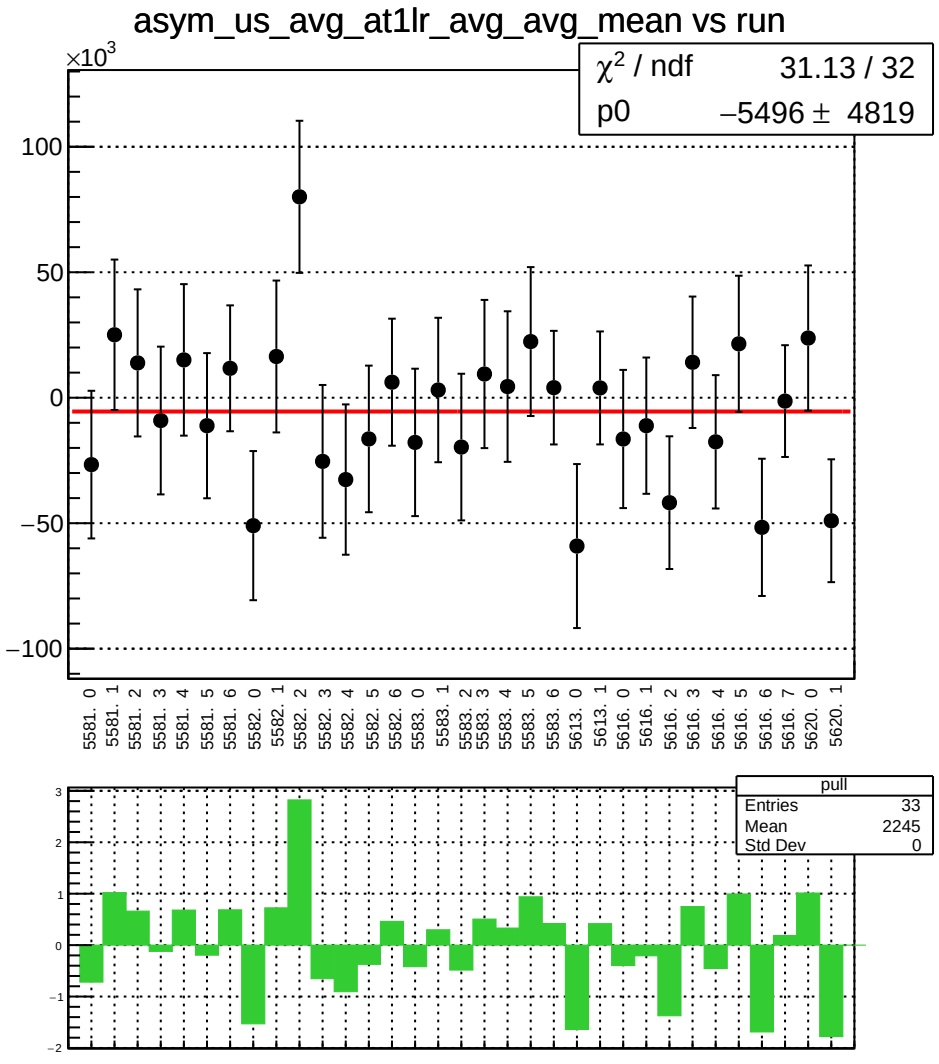

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 44.85 / 32
p0 −2735 ± 4451
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 116.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.02676
Std Dev 1.165
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

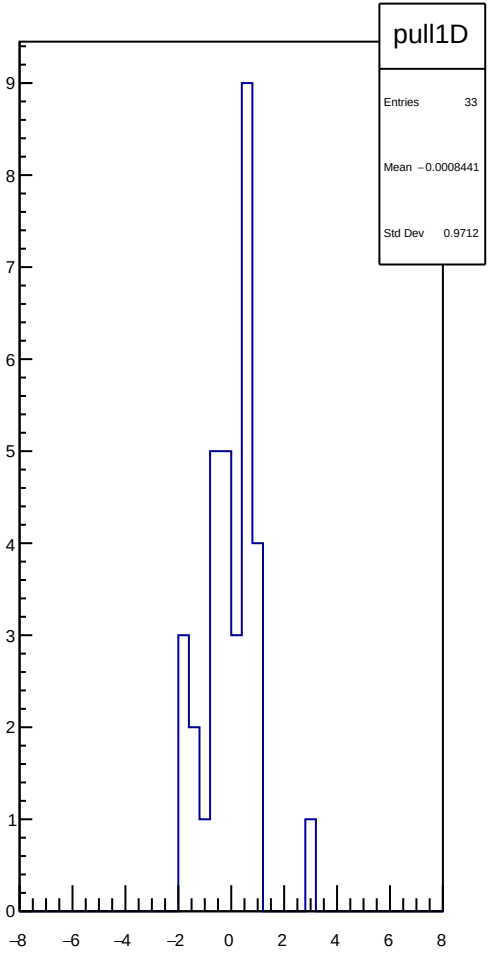

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1398 / 32
p0 2538 ± 3.147
3100
3000
2900
2800
2700
2600
2500
2400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

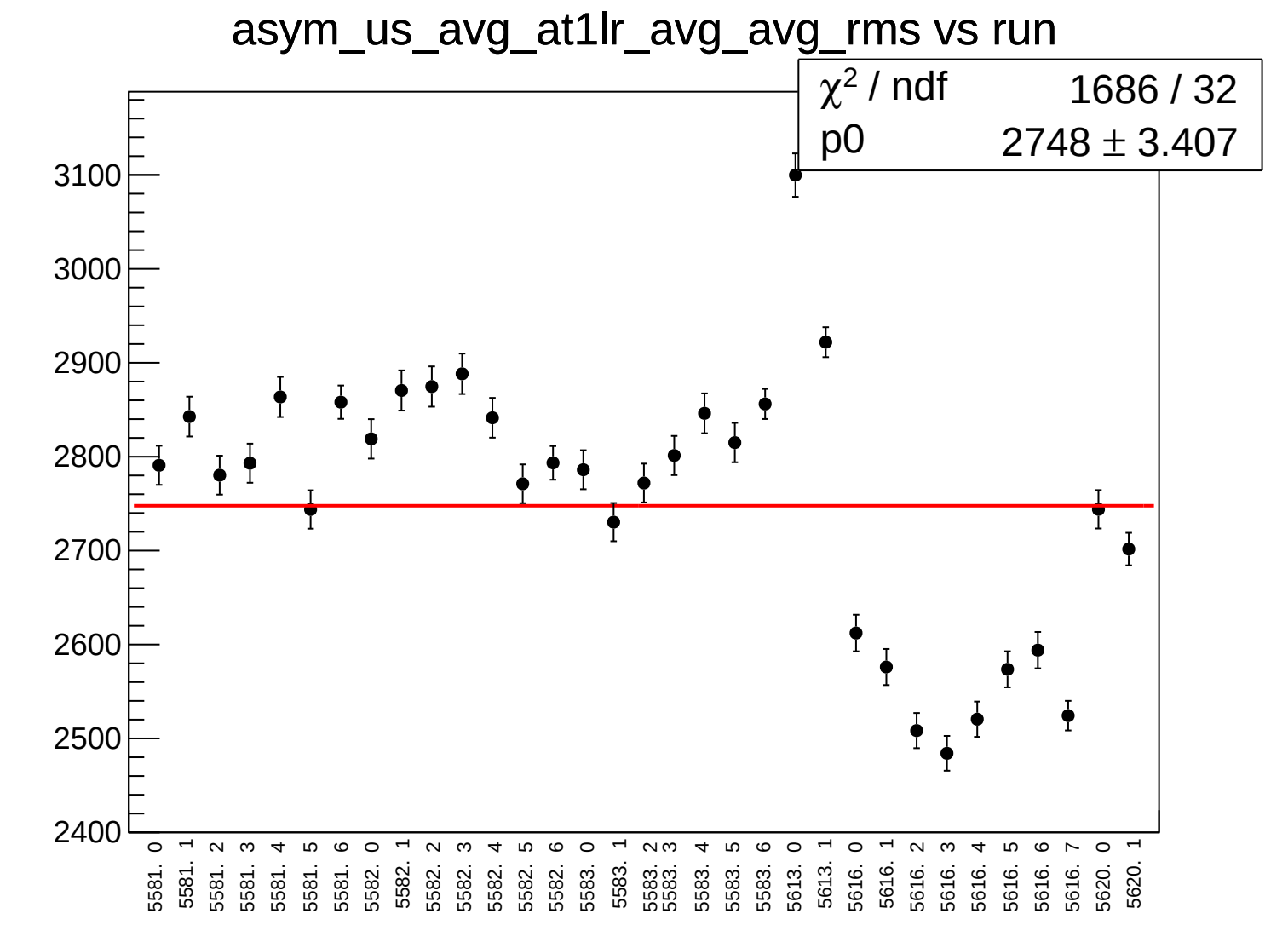

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 38.17 / 32
p0 879.9 ± 803.3
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5.994
Std Dev 23.04
2
1
0
−1
−2

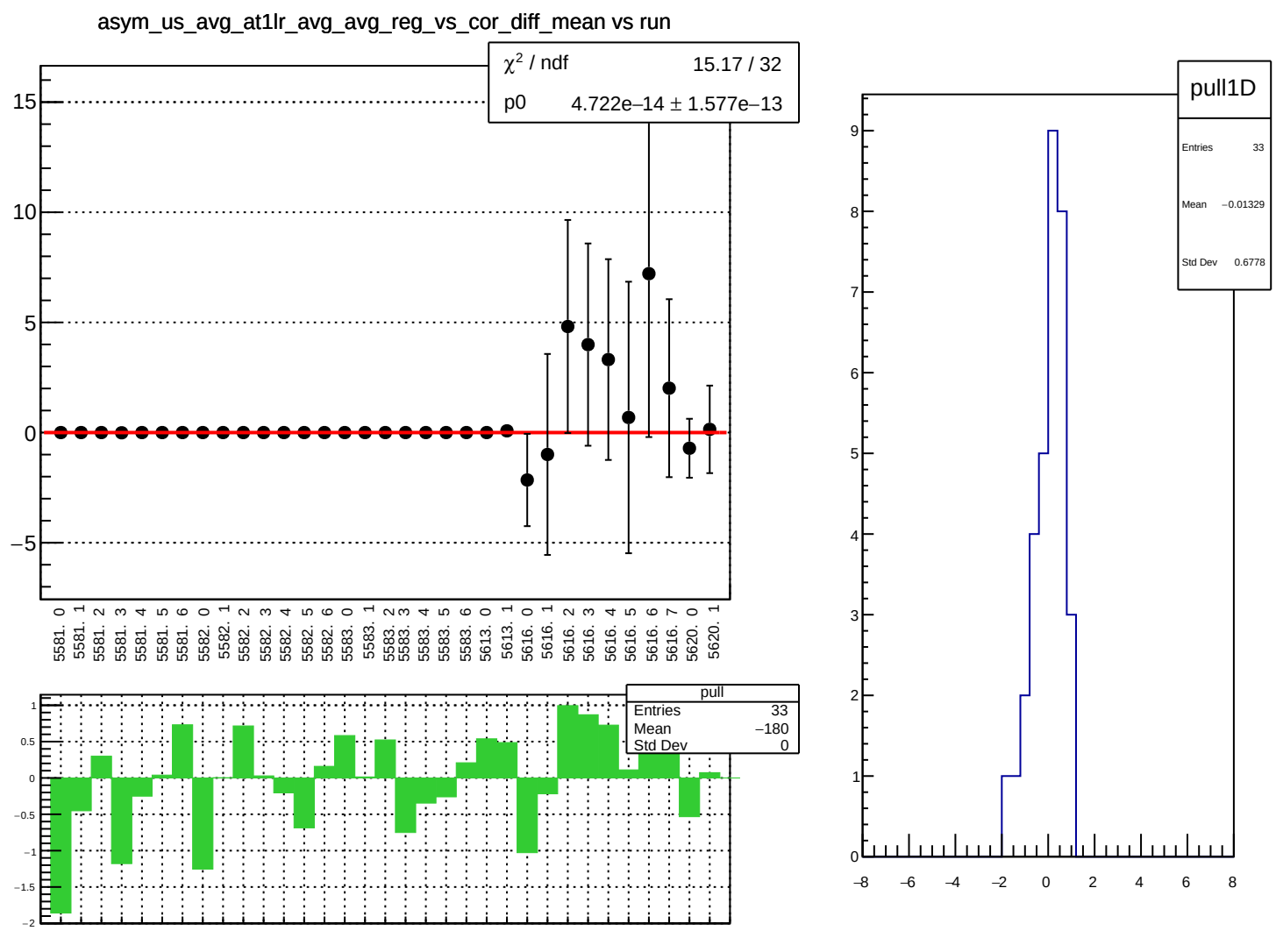

pull1D
Entries 33
Mean 0.06847
Std Dev 1.073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

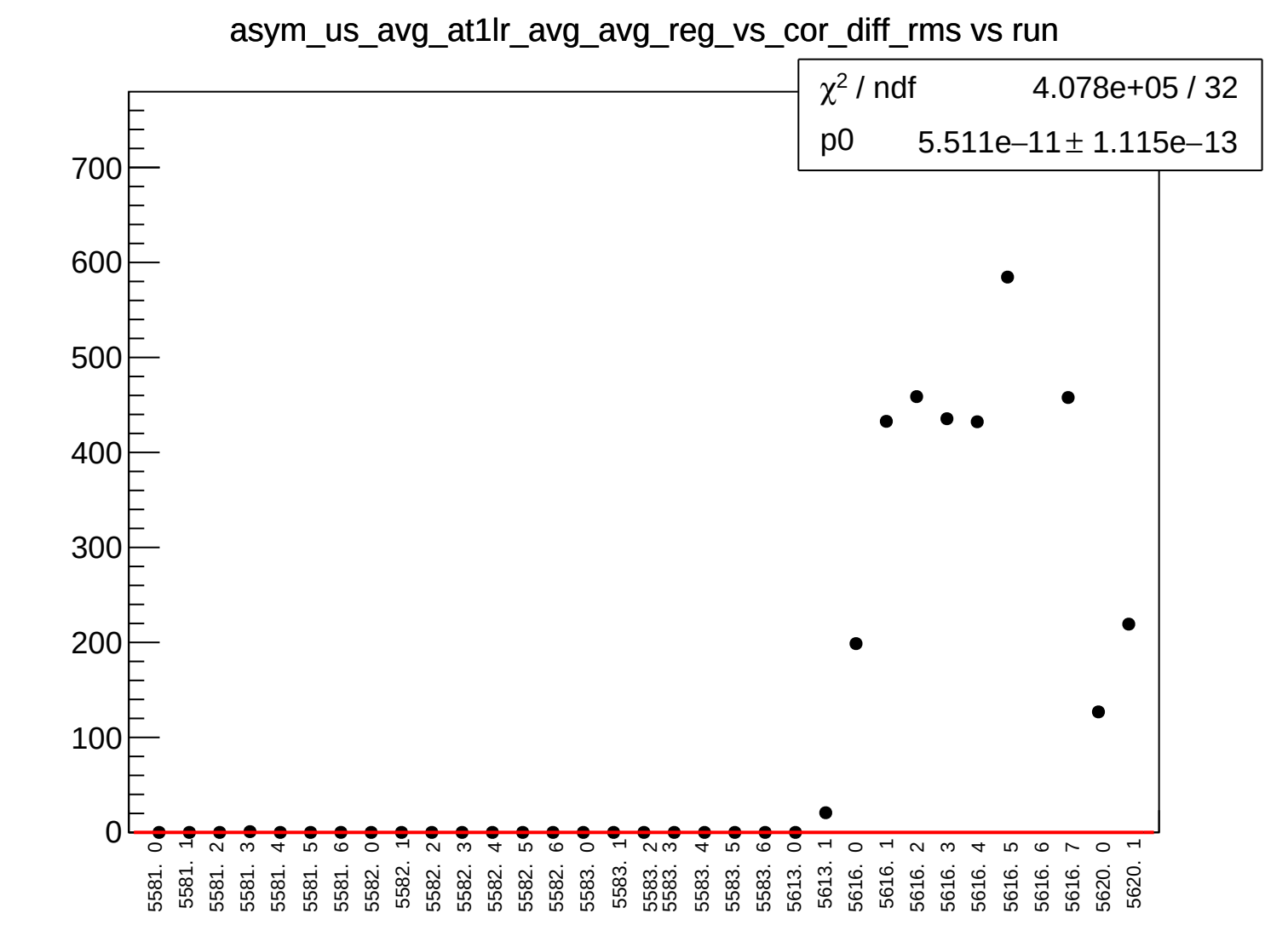

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.322e+05 / 32
p0 368 ± 0.568
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

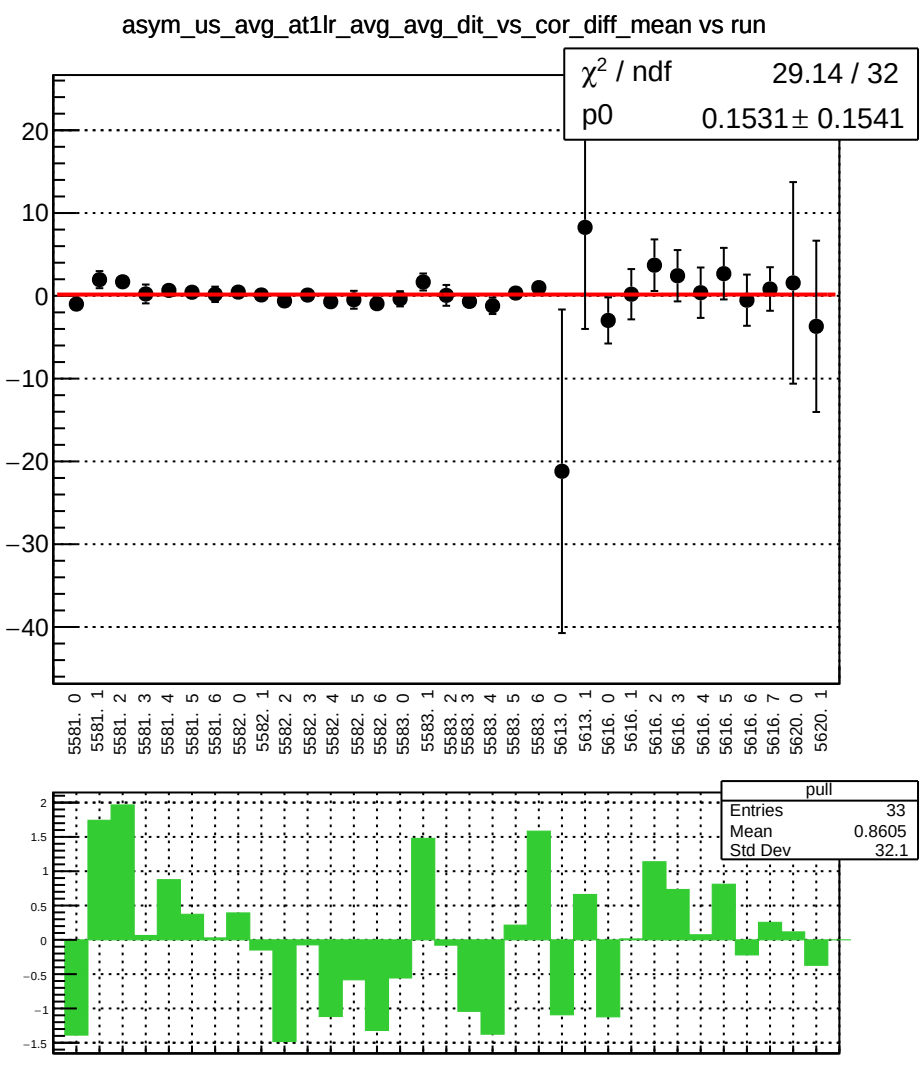

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 31.13 / 32
p0 −5496 ± 4819
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2245
Std Dev 0
3
2
1
0
−1
−2

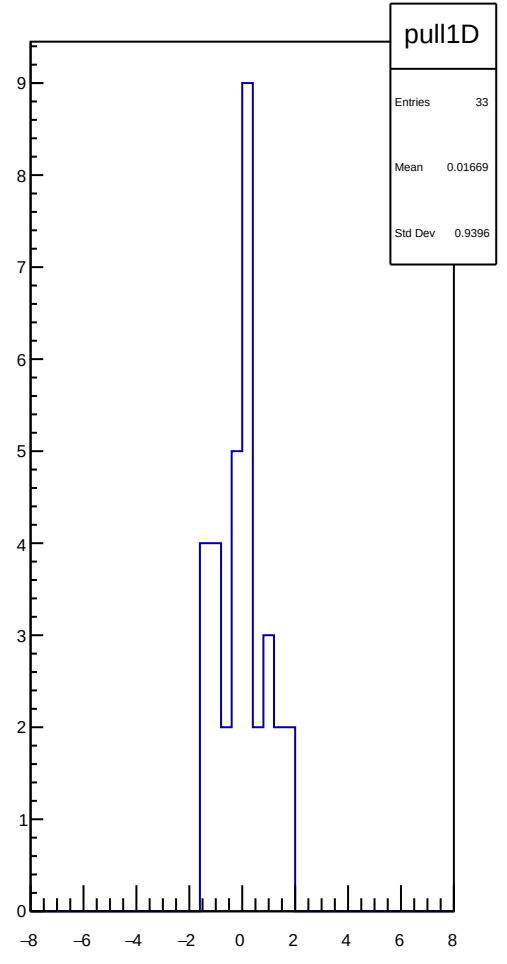

pull1D
Entries 33
Mean −0.0008441
Std Dev 0.9712
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

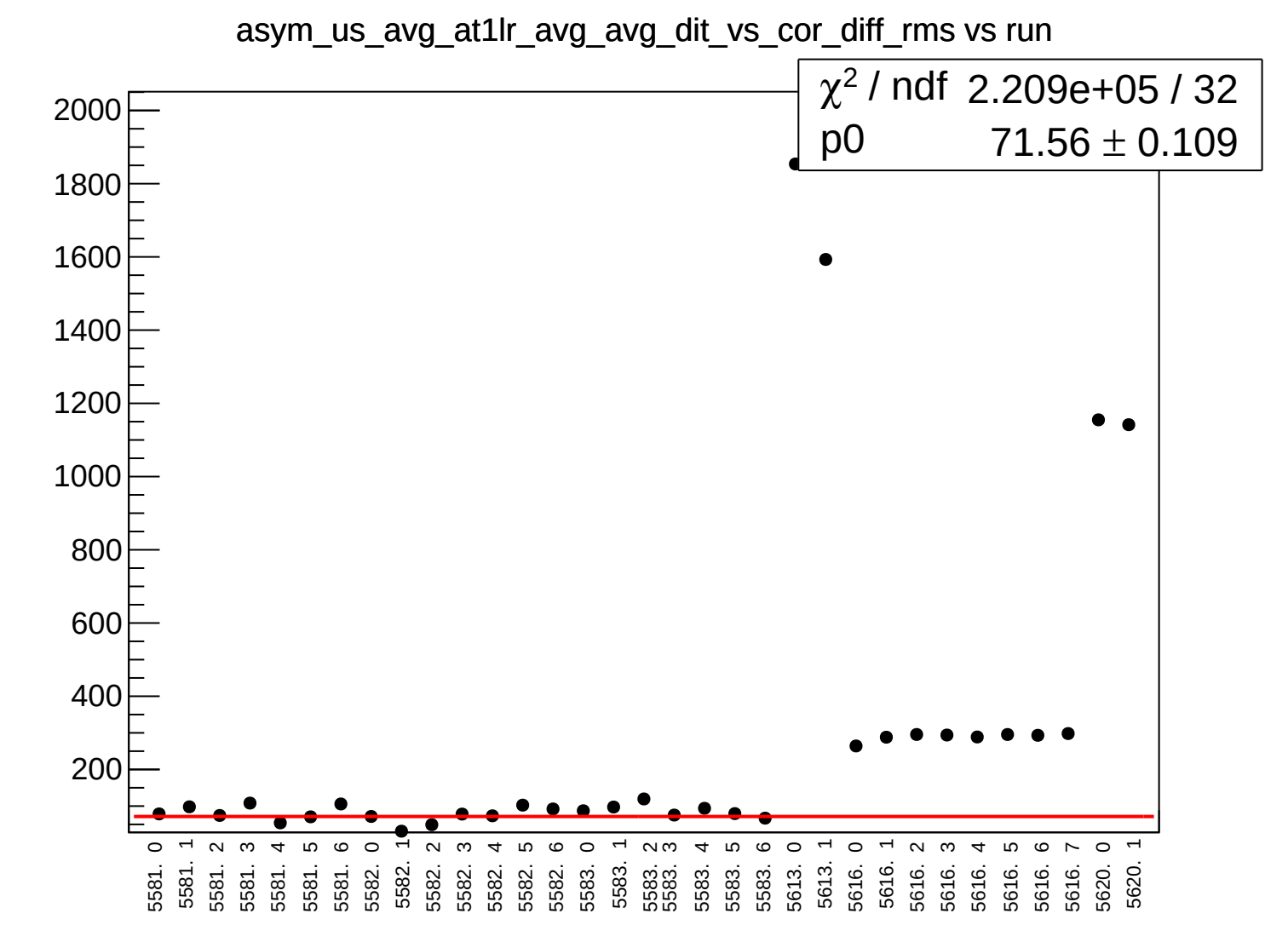

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1686 / 32
p0 2748 ± 3.407
3100
3000
2900
2800
2700
2600
2500
2400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

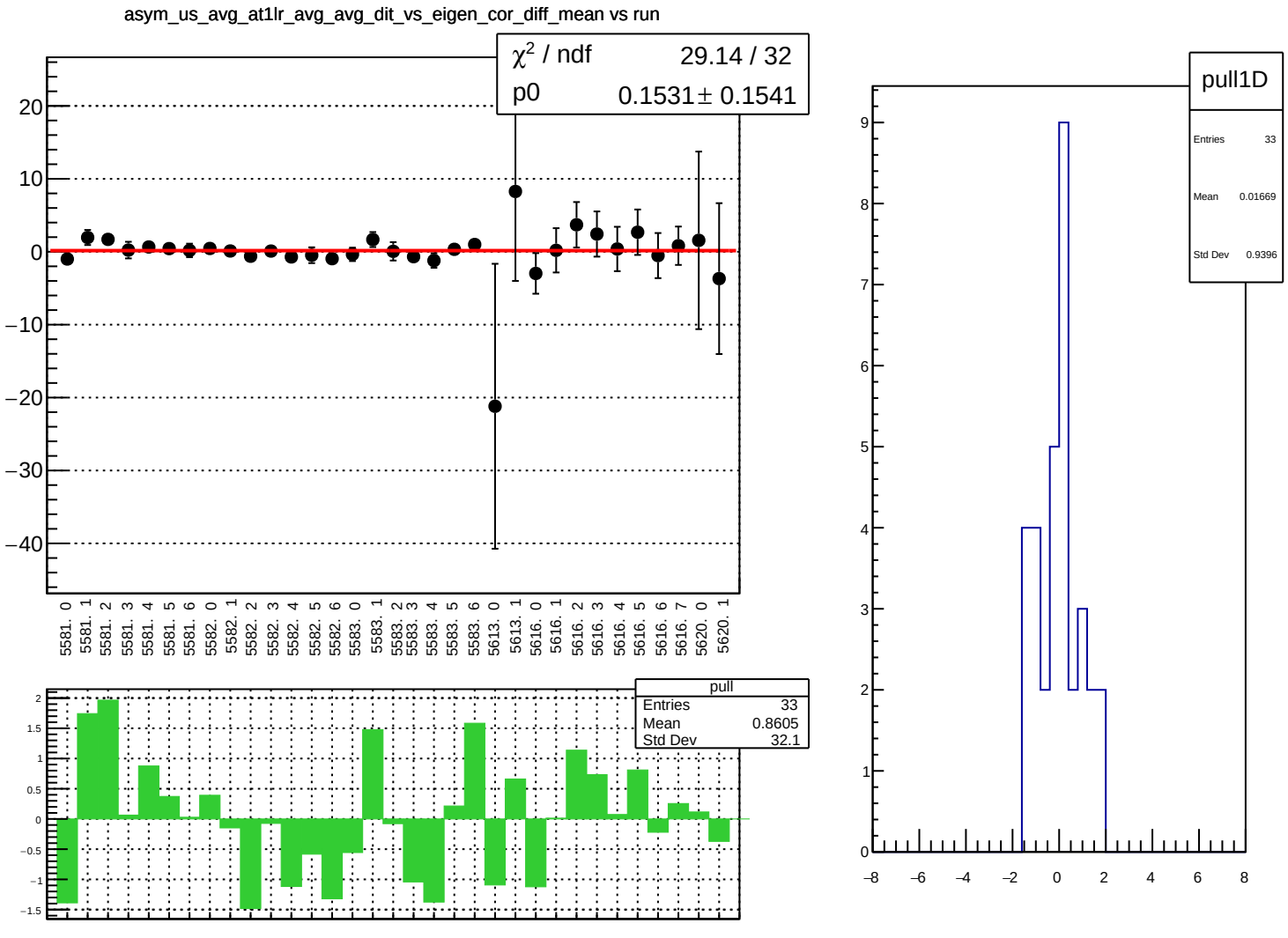

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 15.17 / 32
p0 4.722e−14 ± 1.577e−13
15
10
5
0
−5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −180
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01329
Std Dev 0.6778
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

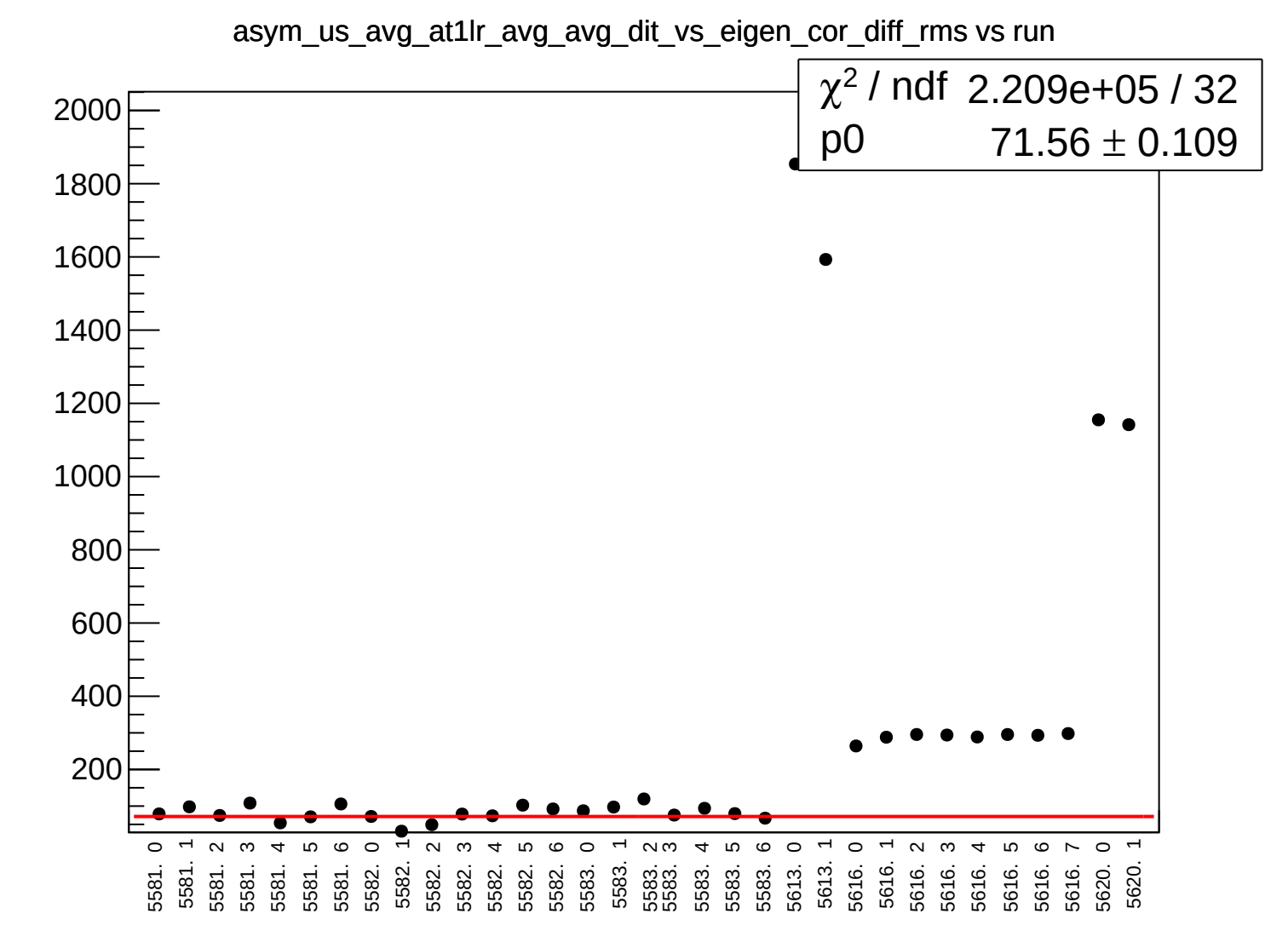

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.078e+05 / 32
p0 5.511e−11 ± 1.115e−13
0
100
200
300
400
500
600
700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

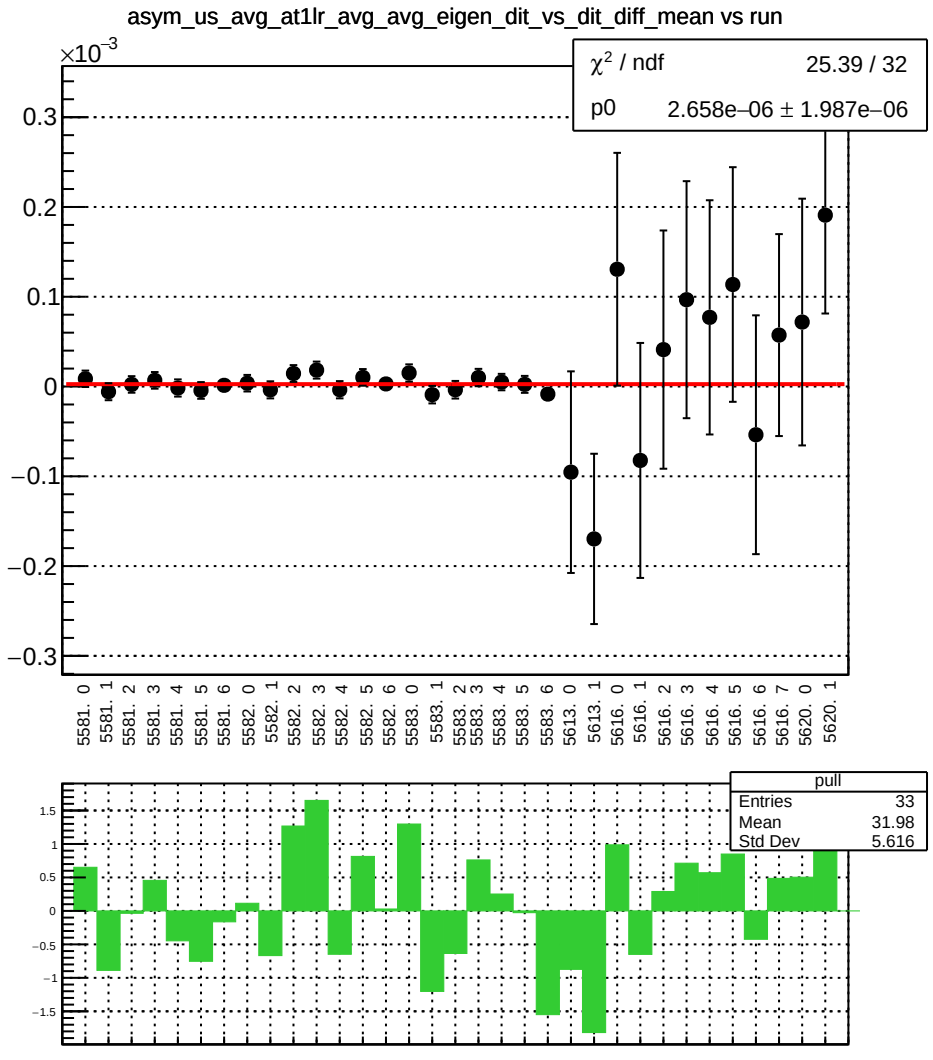

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 29.14 / 32
p0 0.1531 ± 0.1541
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 0.8605
Std Dev 32.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

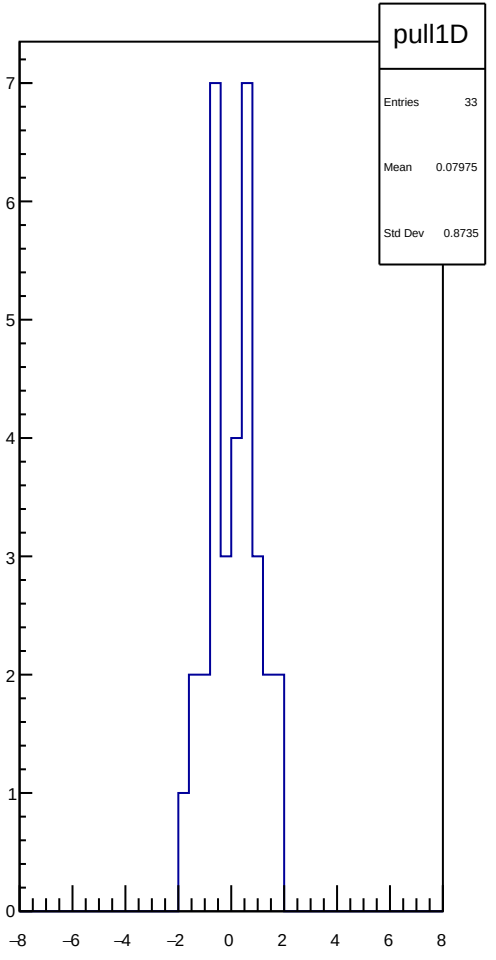

pull1D
Entries 33
Mean 0.01669
Std Dev 0.9396
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

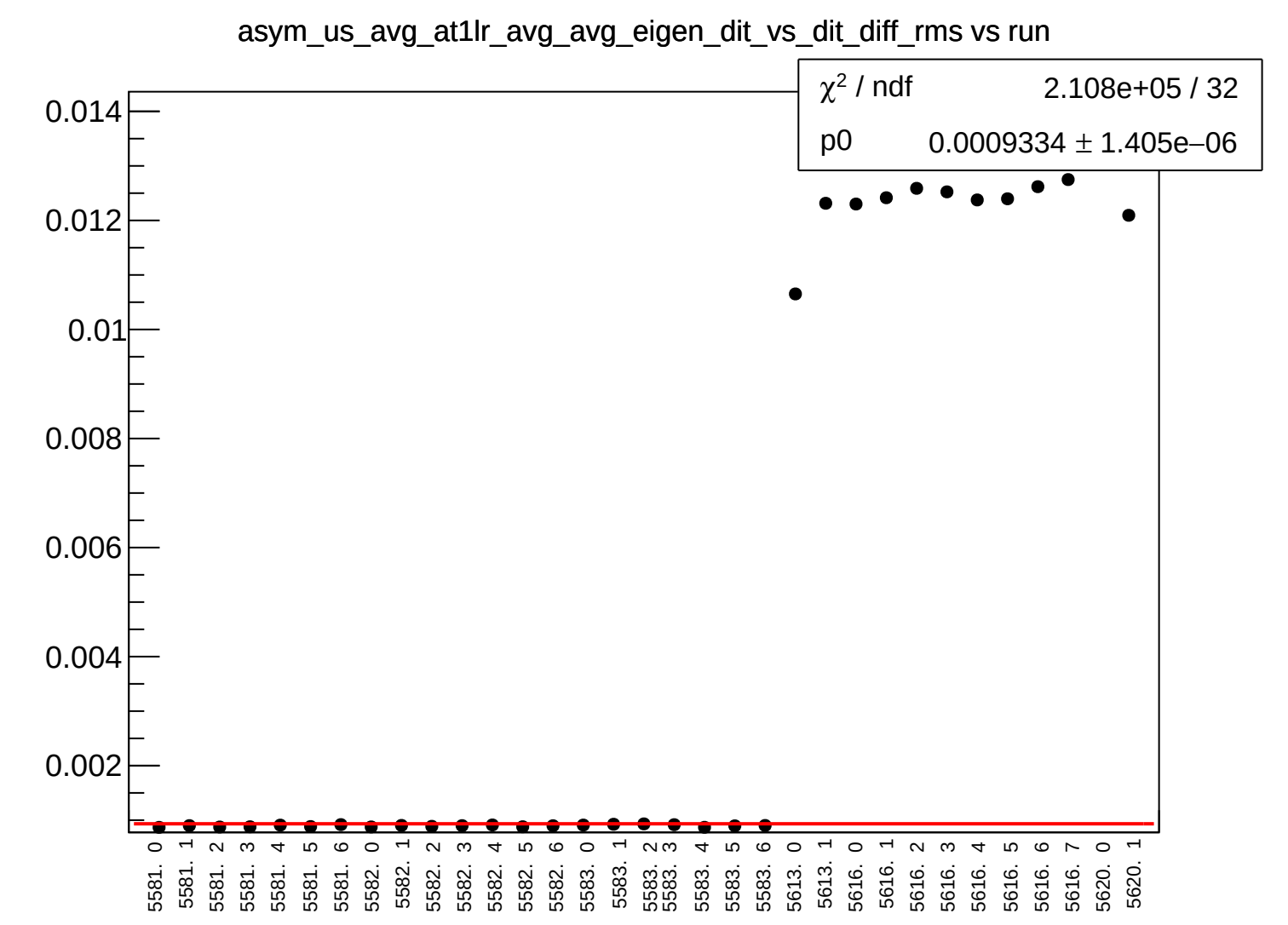

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.209e+05 / 32
p0 71.56 ± 0.109
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

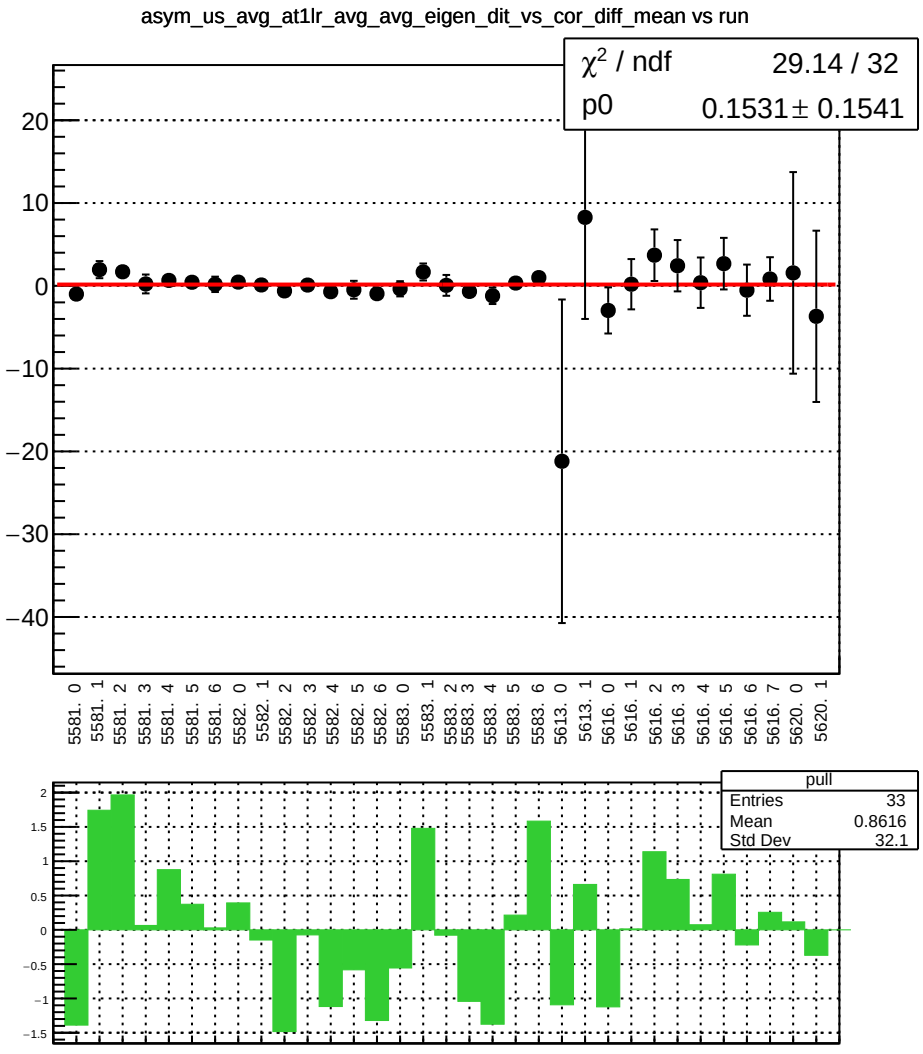

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.14 / 32
p0 0.1531 ± 0.1541
pull
Entries 33
Mean 0.8605
Std Dev 32.1
pull1D
Entries 33
Mean 0.01669
Std Dev 0.9396

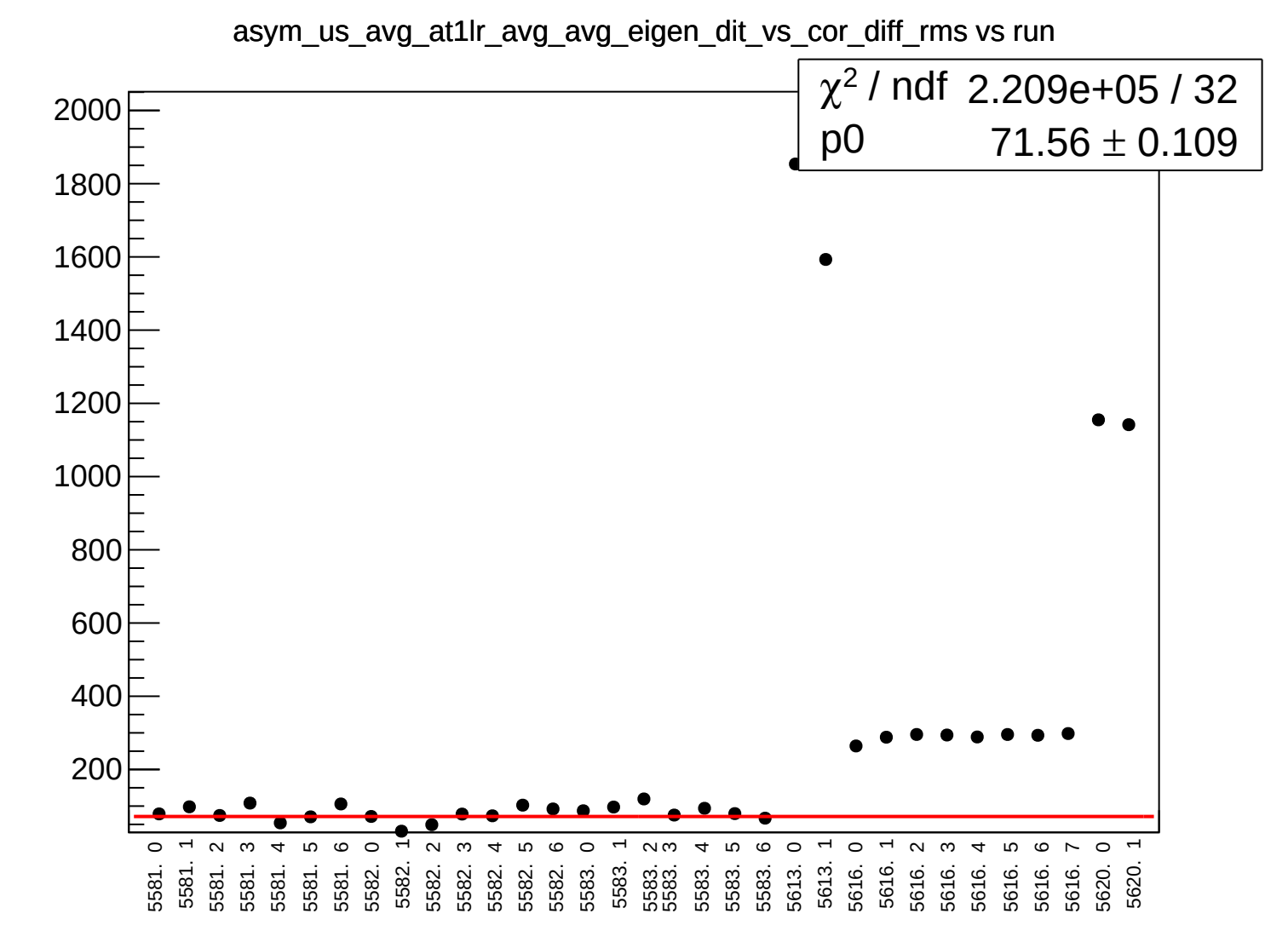

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.209e+05 / 32
p0 71.56 ± 0.109
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

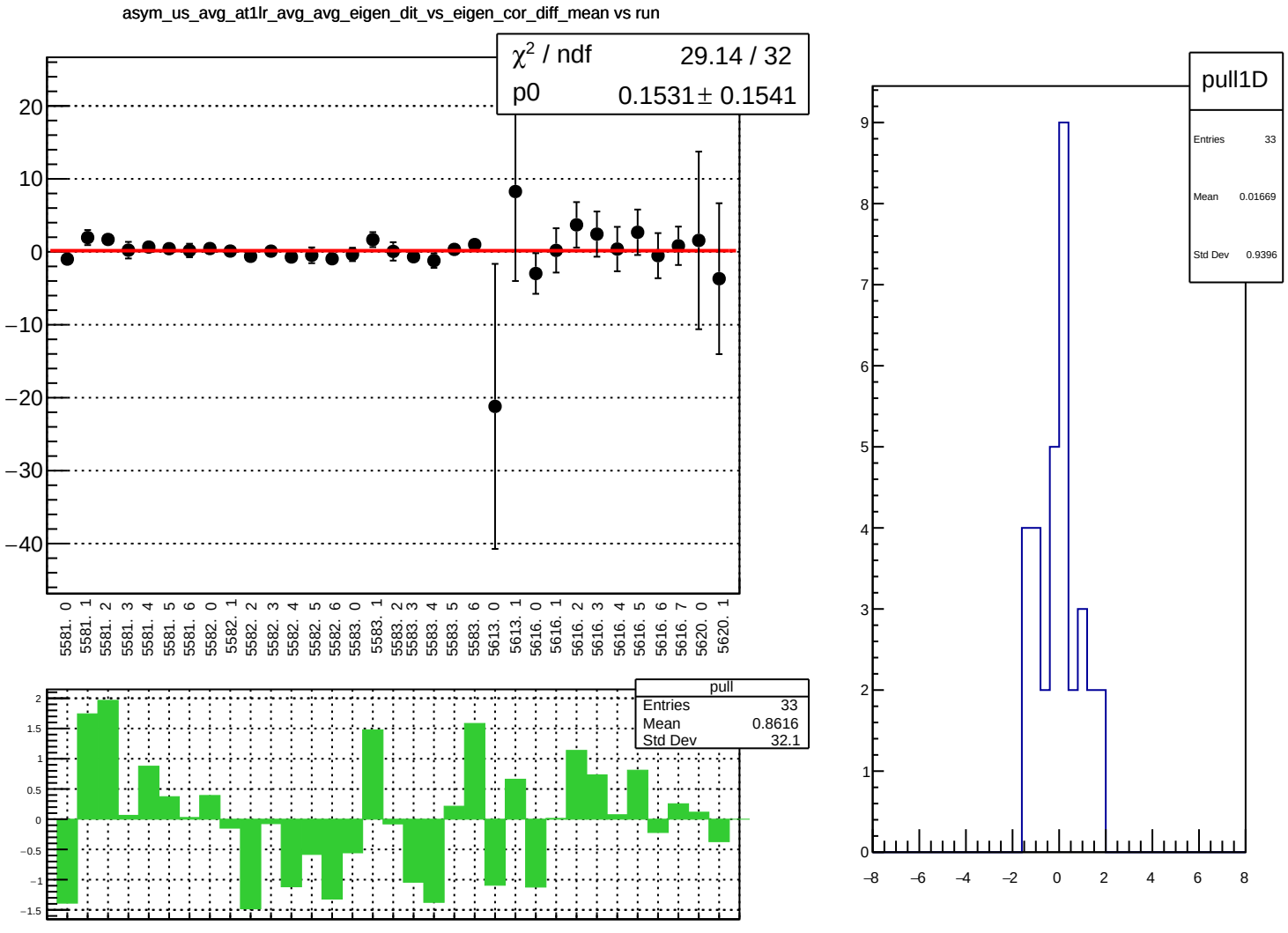

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 25.39 / 32
p0 2.658e−06 ± 1.987e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.98
Std Dev 5.616
1.5
1
0.5
0
−0.5
−1
−1.5

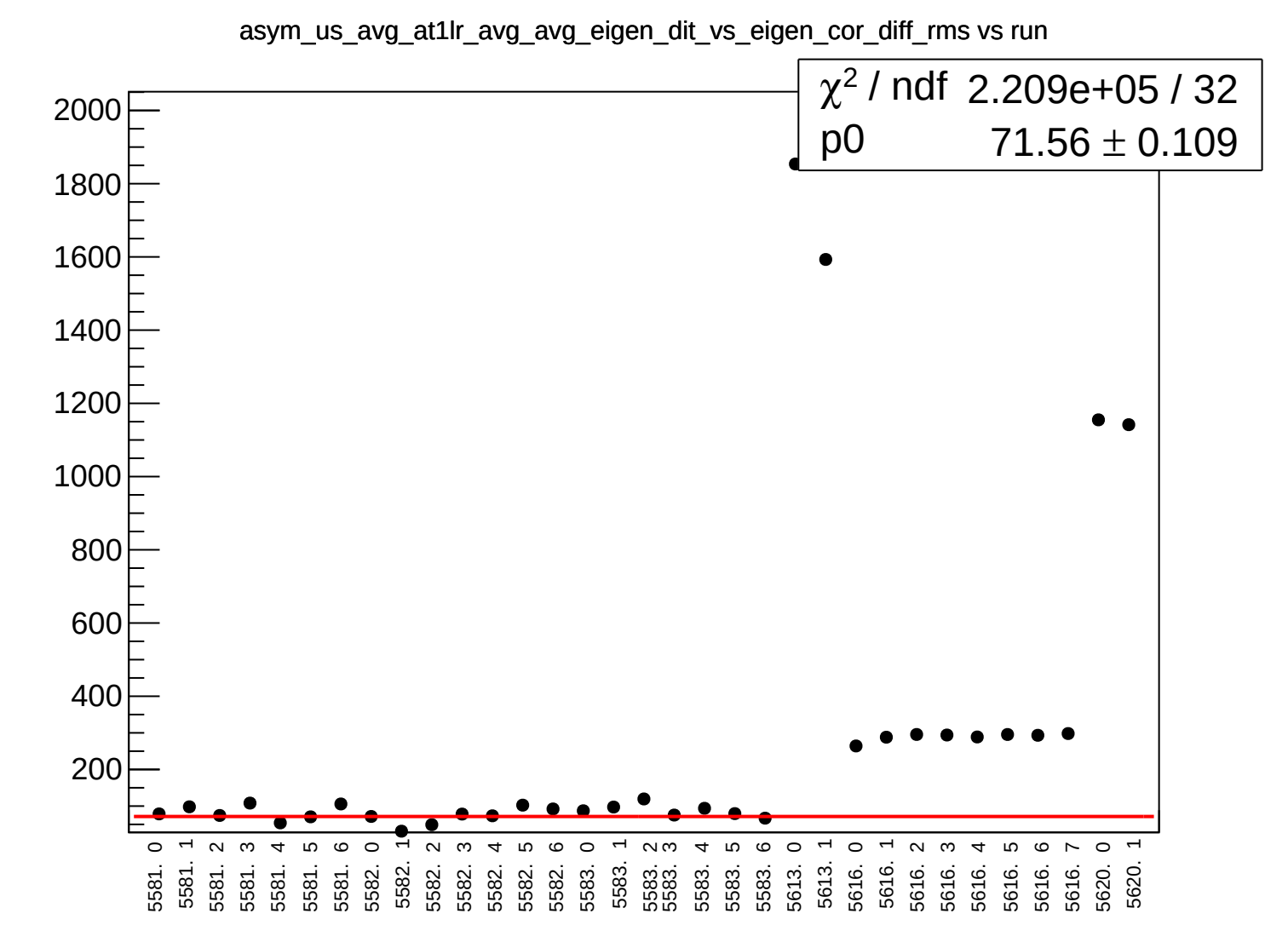

pull1D
Entries 33
Mean 0.07975
Std Dev 0.8735
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

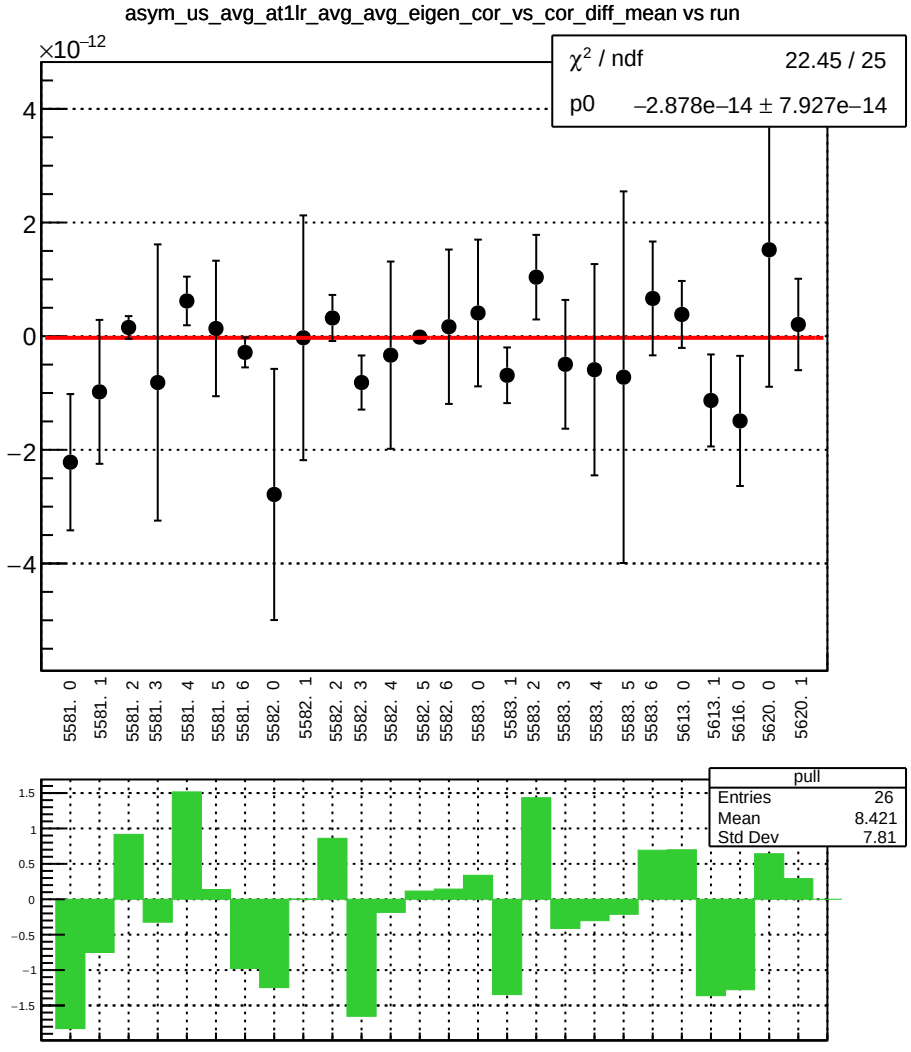

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.108e+05 / 32
p0 0.0009334 ± 1.405e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

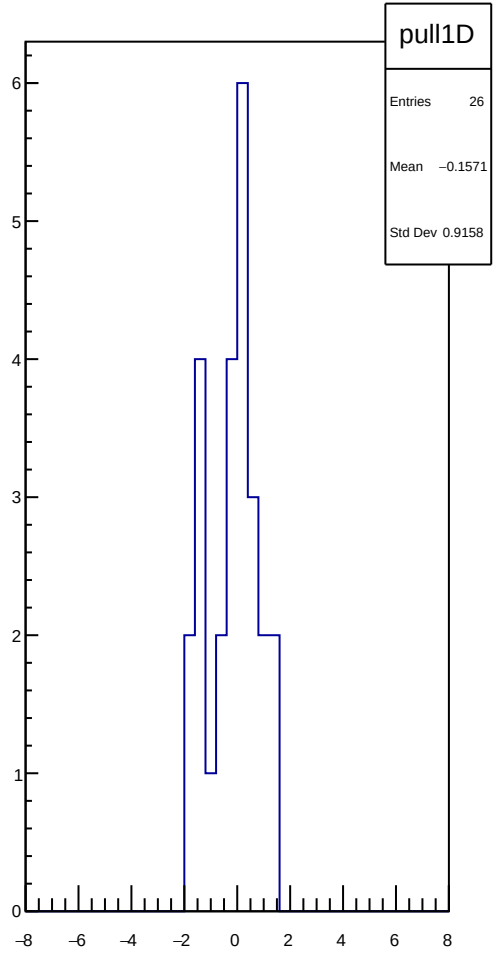

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.14 / 32
p0 0.1531 ± 0.1541
pull
Entries 33
Mean 0.8616
Std Dev 32.1
pull1D
Entries 33
Mean 0.01669
Std Dev 0.9396

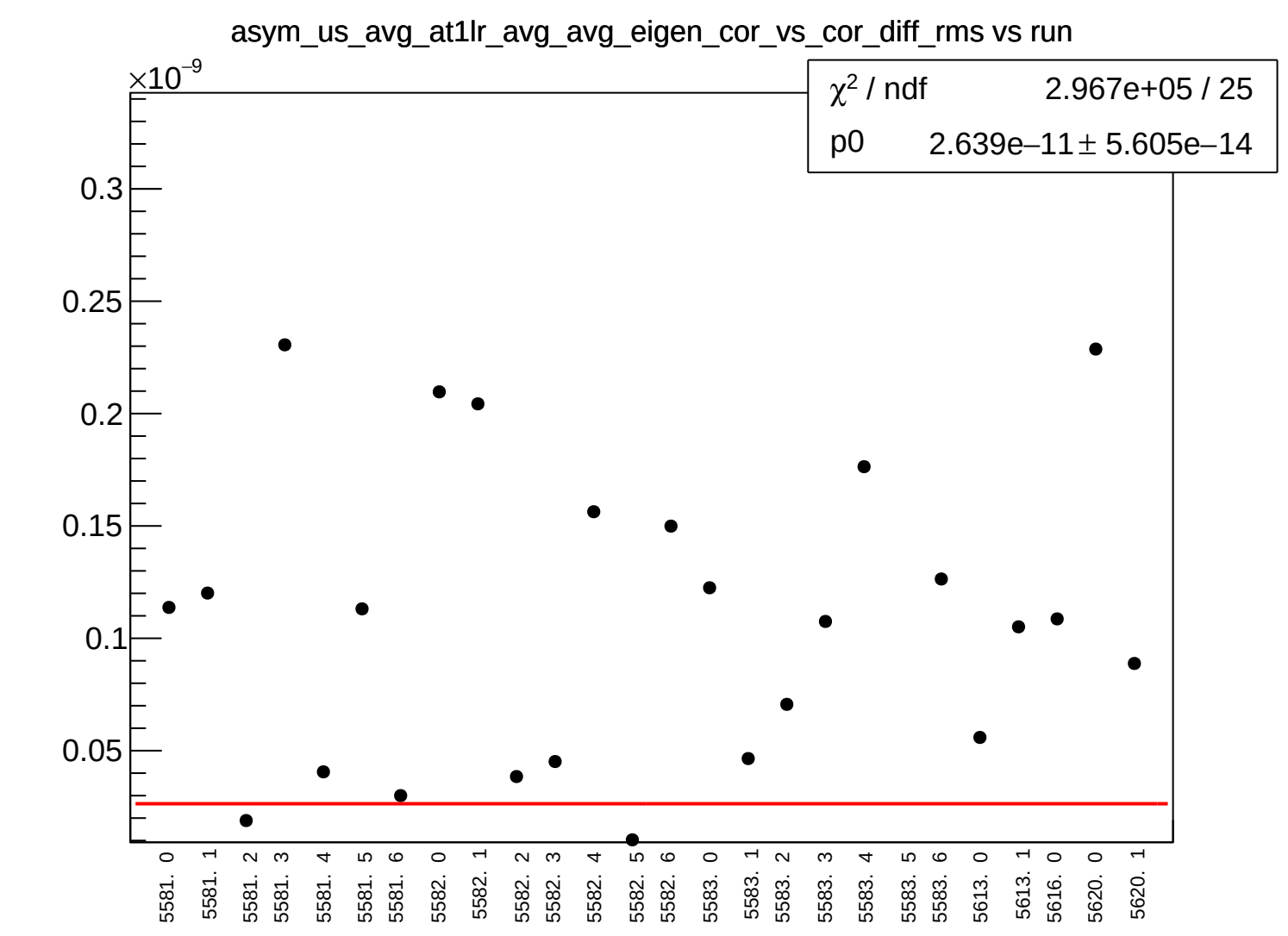

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.209e+05 / 32
p0 71.56 ± 0.109
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

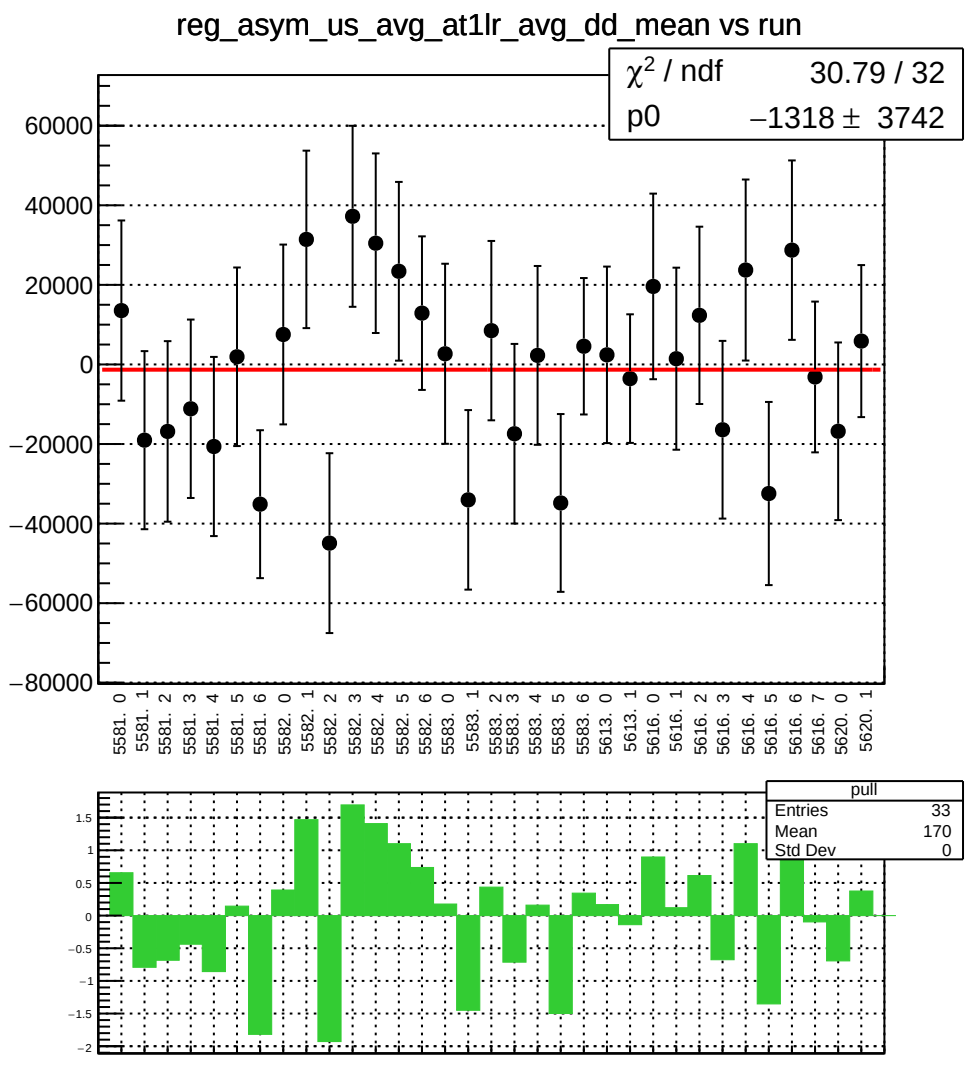

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.14 / 32
p0 0.1531 ± 0.1541
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 0.8616
Std Dev 32.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.01669
Std Dev 0.9396
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

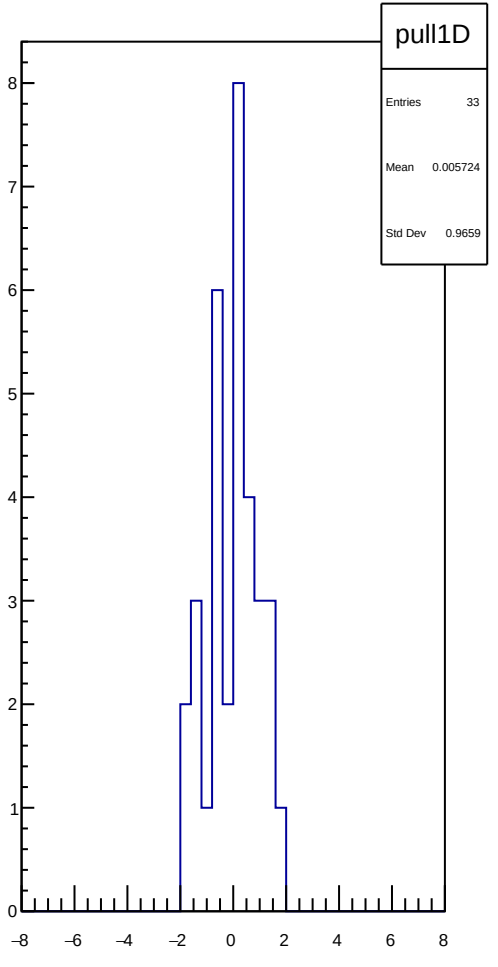

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.209e+05 / 32
p0 71.56 ± 0.109
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

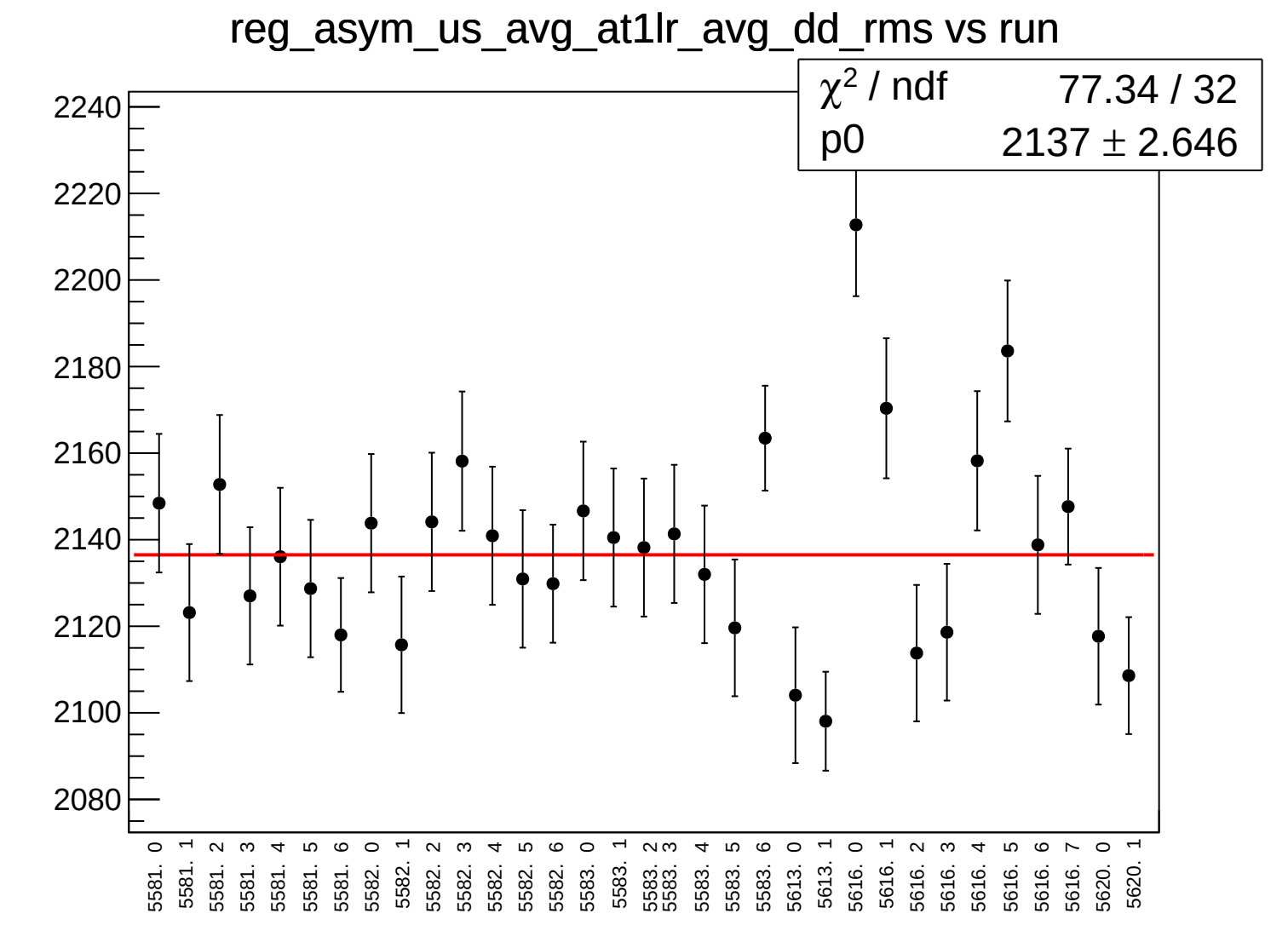

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 22.45 / 25
p0 −2.878e−14 ± 7.927e−14
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 8.421
Std Dev 7.81
1.5
1
0.5
0
−0.5
−1
−1.5

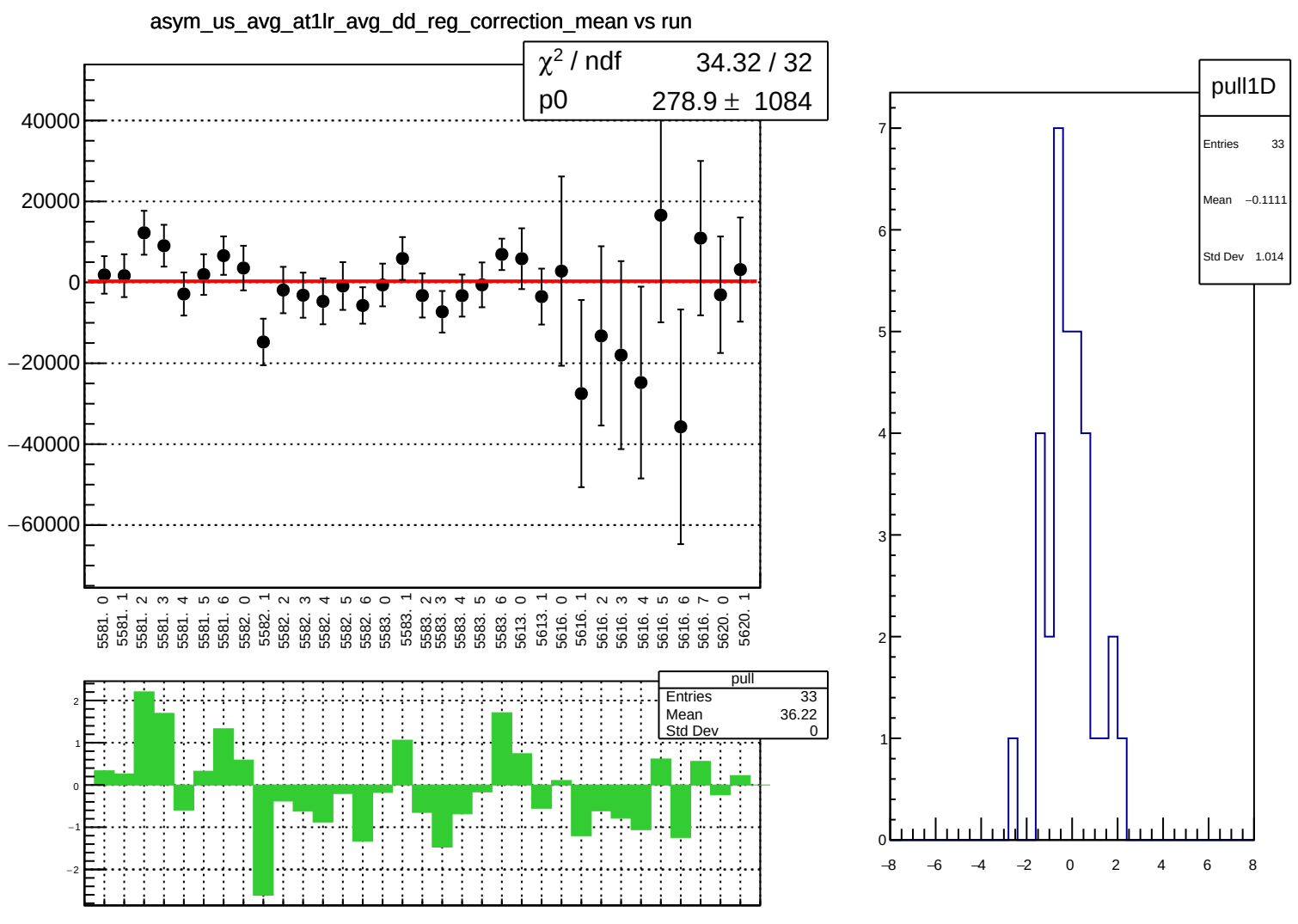

pull1D
Entries 26
Mean −0.1571
Std Dev 0.9158
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

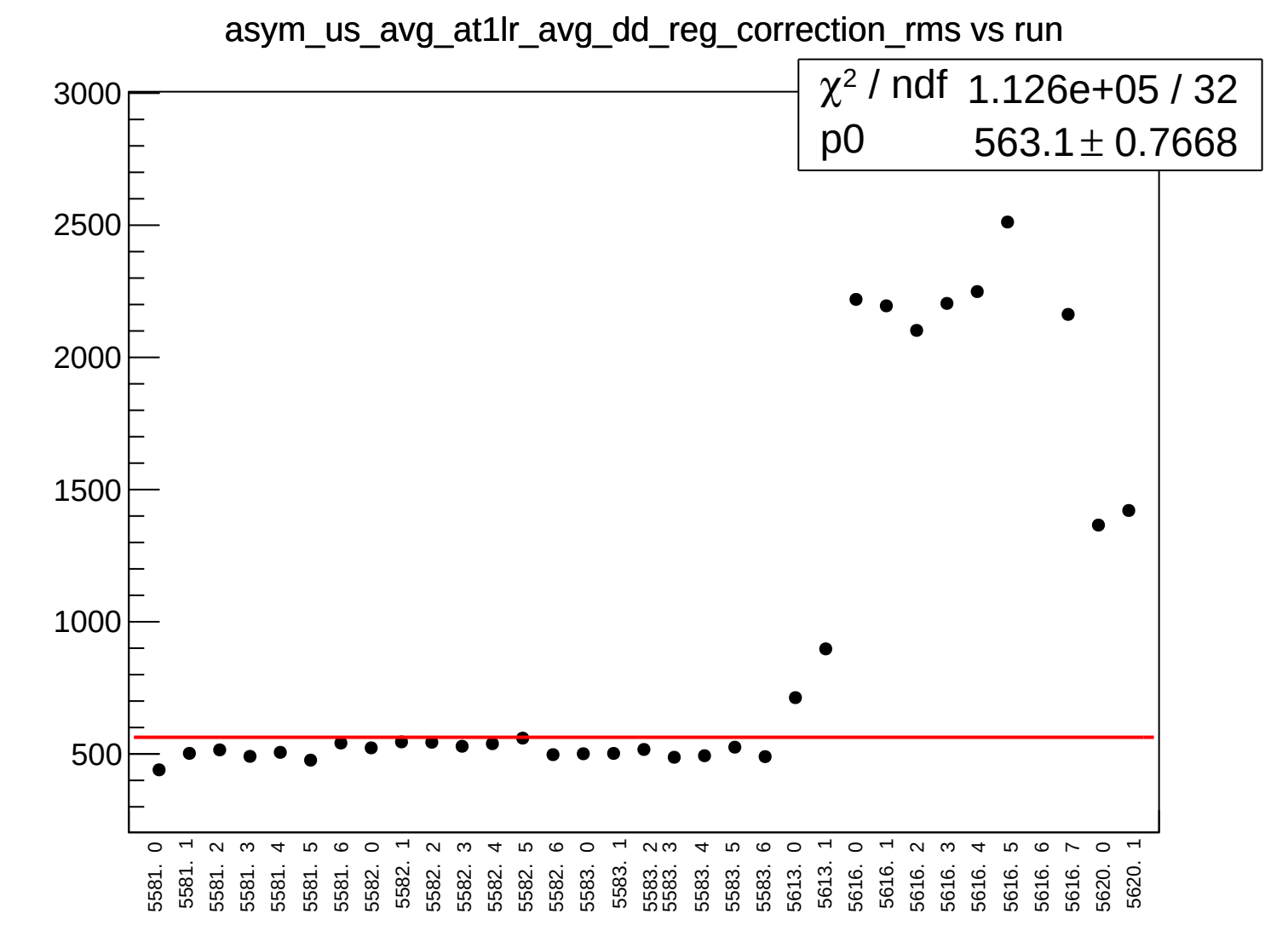

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.967e+05 / 25
p0 2.639e−11 ± 5.605e−14
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

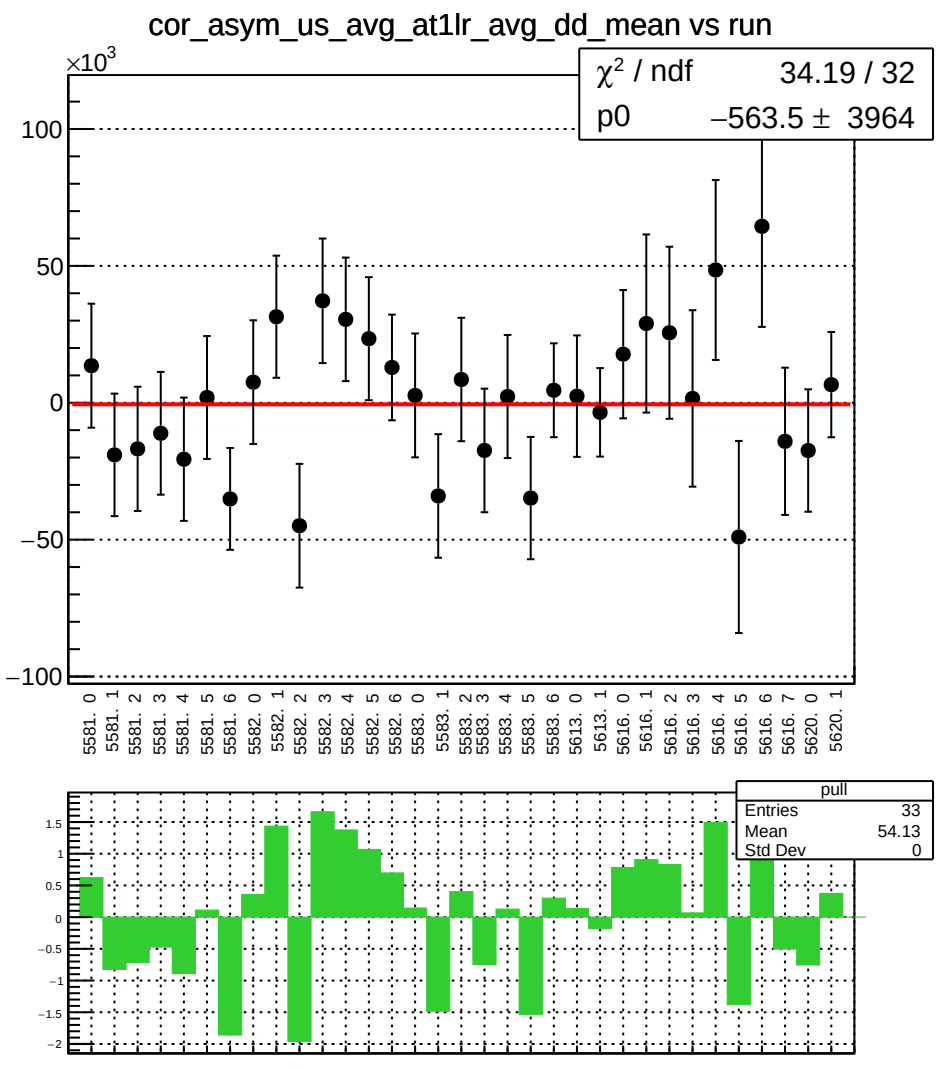

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 30.79 / 32
p0 −1318 ± 3742
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 170
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

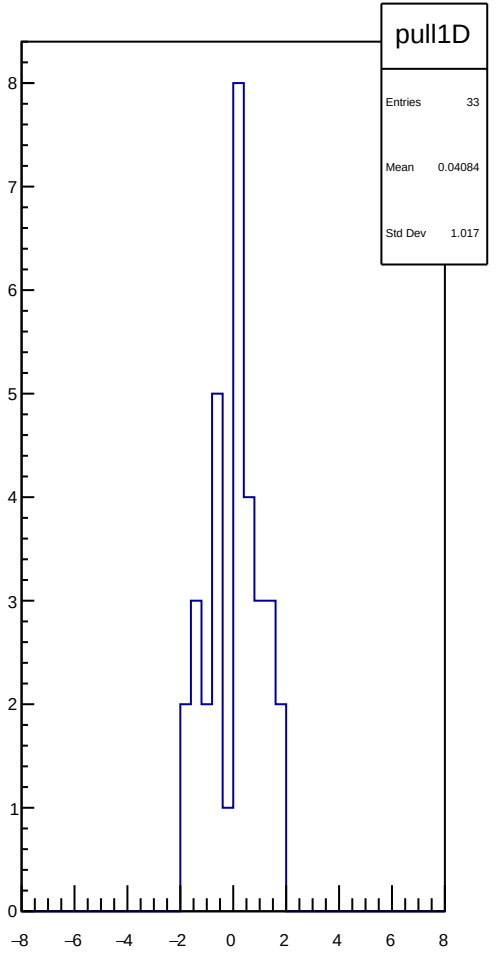

pull1D
Entries 33
Mean 0.005724
Std Dev 0.9659
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

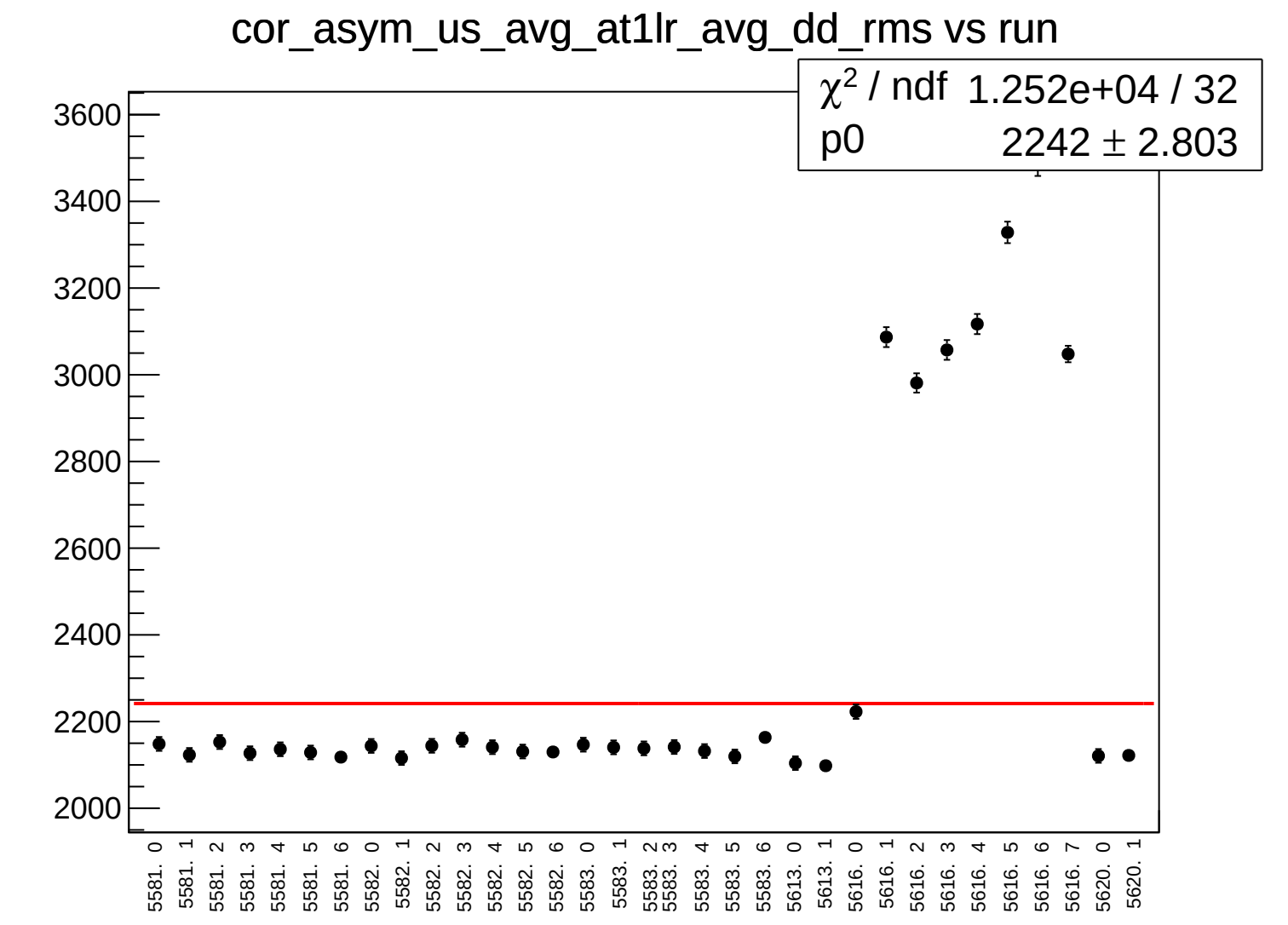

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 77.34 / 32
p0 2137 ± 2.646
2240
2220
2200
2180
2160
2140
2120
2100
2080
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

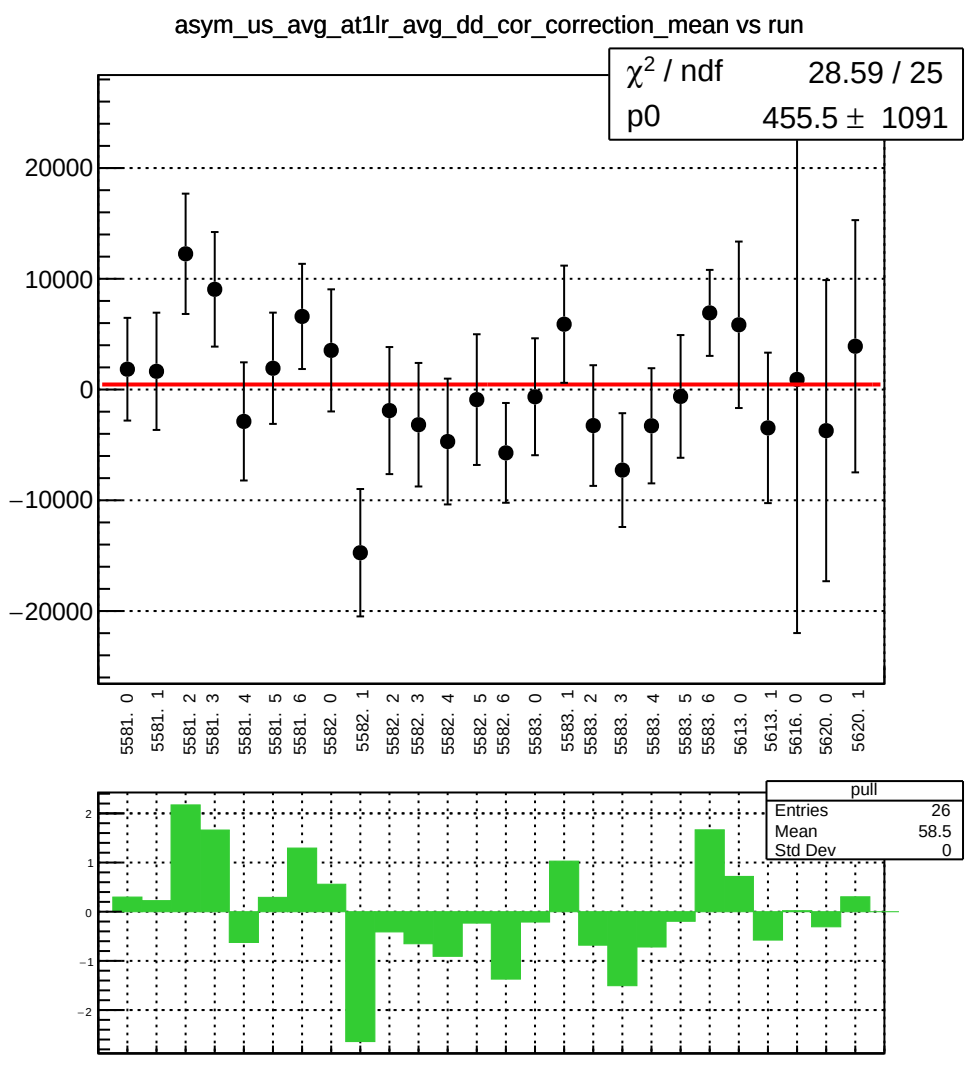

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 34.32 / 32
p0 278.9 ± 1084
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.1111
Std Dev 1.014
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

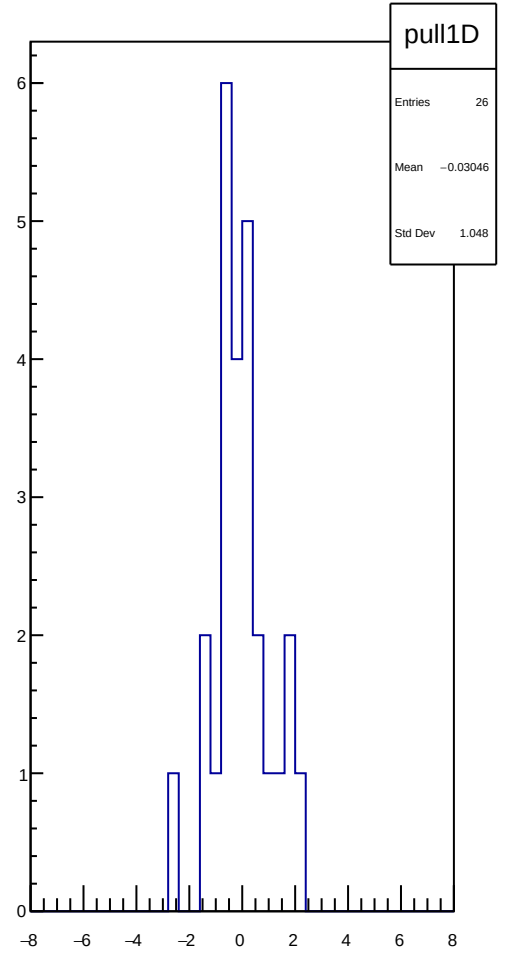

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.126e+05 / 32
p0 563.1 ± 0.7668
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

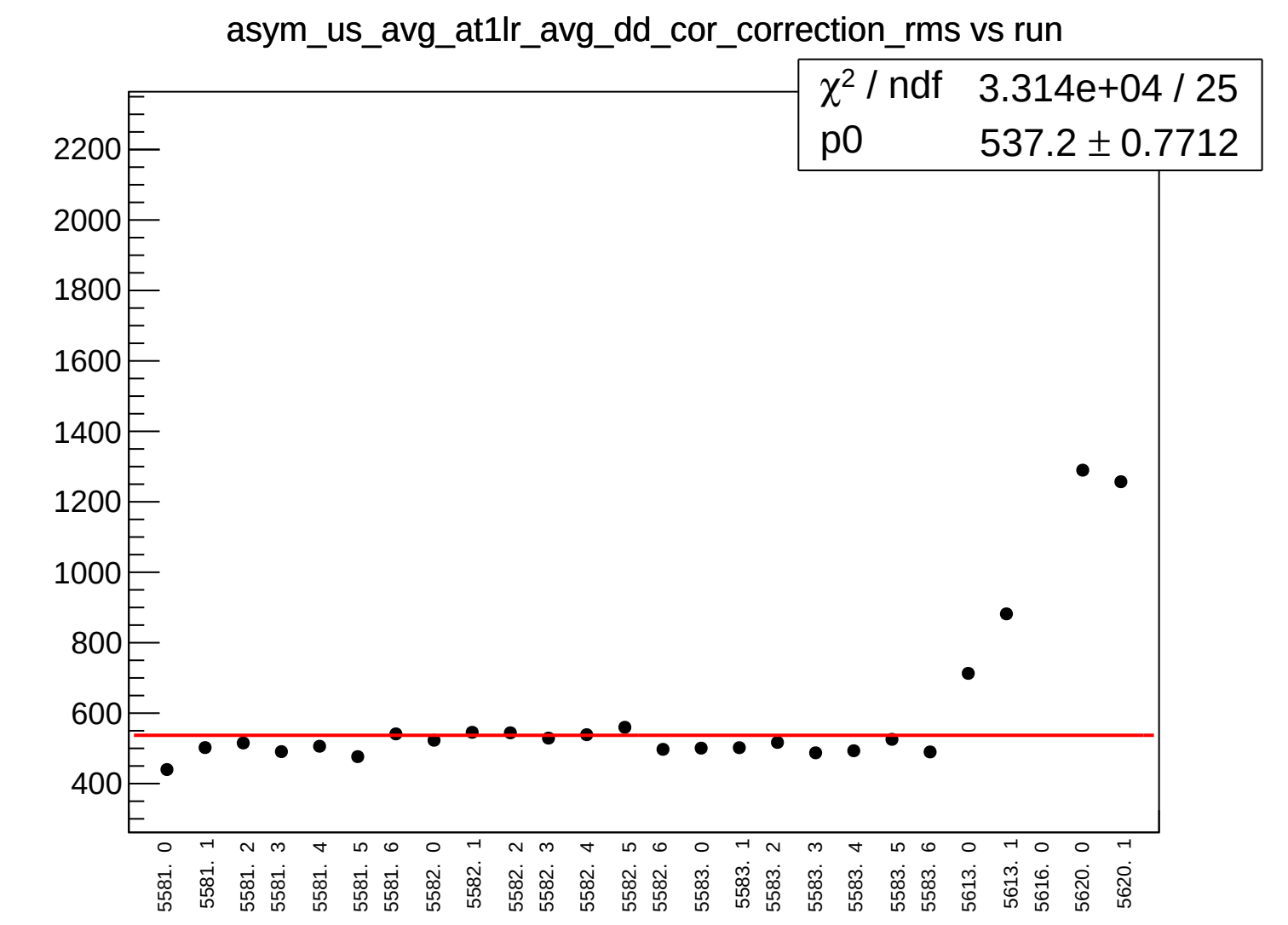

cor_asym_us_avg_at1lr_avg_dd_mean vs run
×10^3
χ² / ndf 34.19 / 32
p0 −563.5 ± 3964
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 54.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

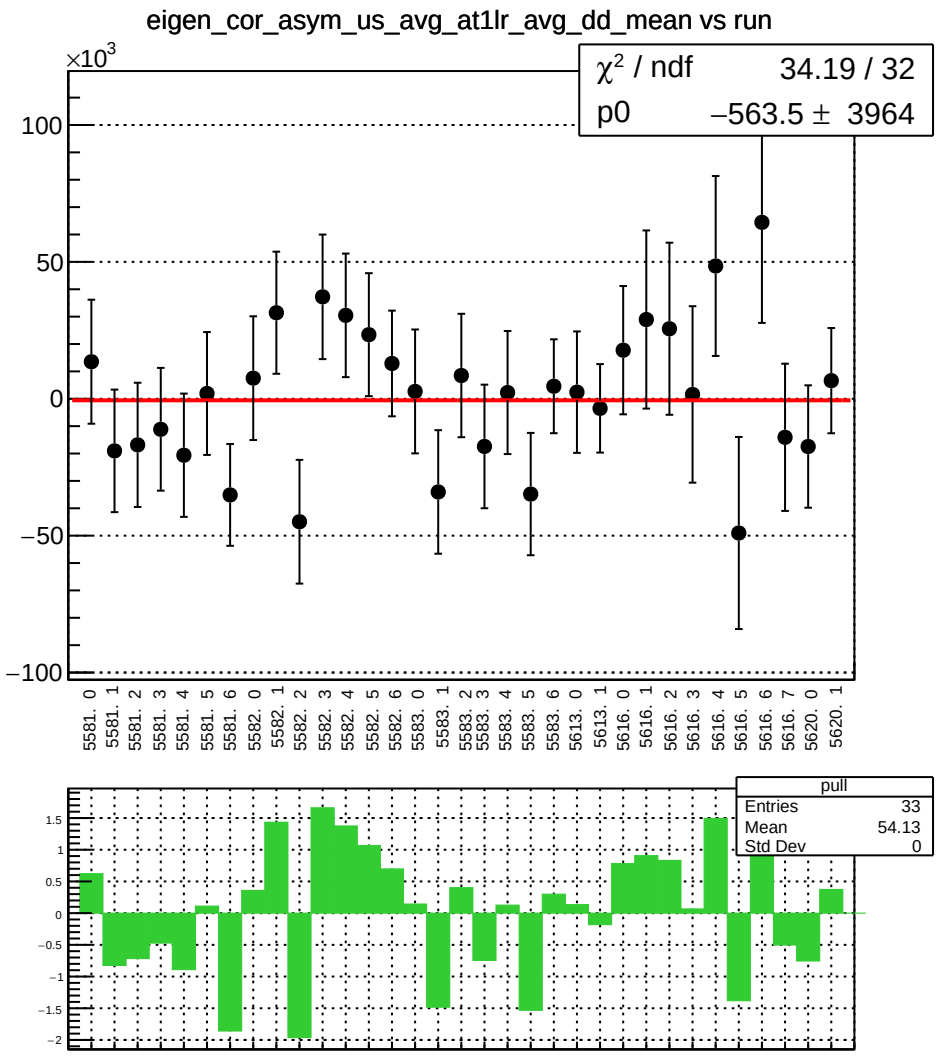

pull1D
Entries 33
Mean 0.04084
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

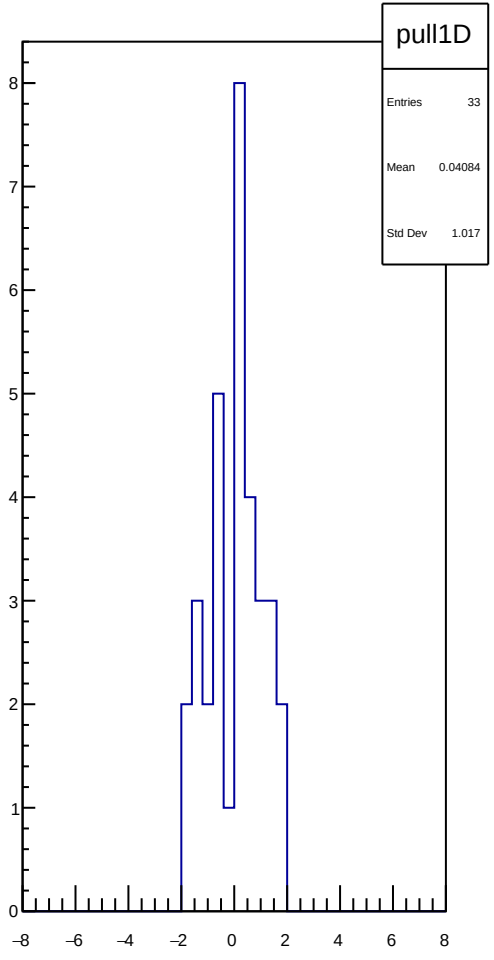

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1.252e+04 / 32
p0 2242 ± 2.803
3600
3400
3200
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

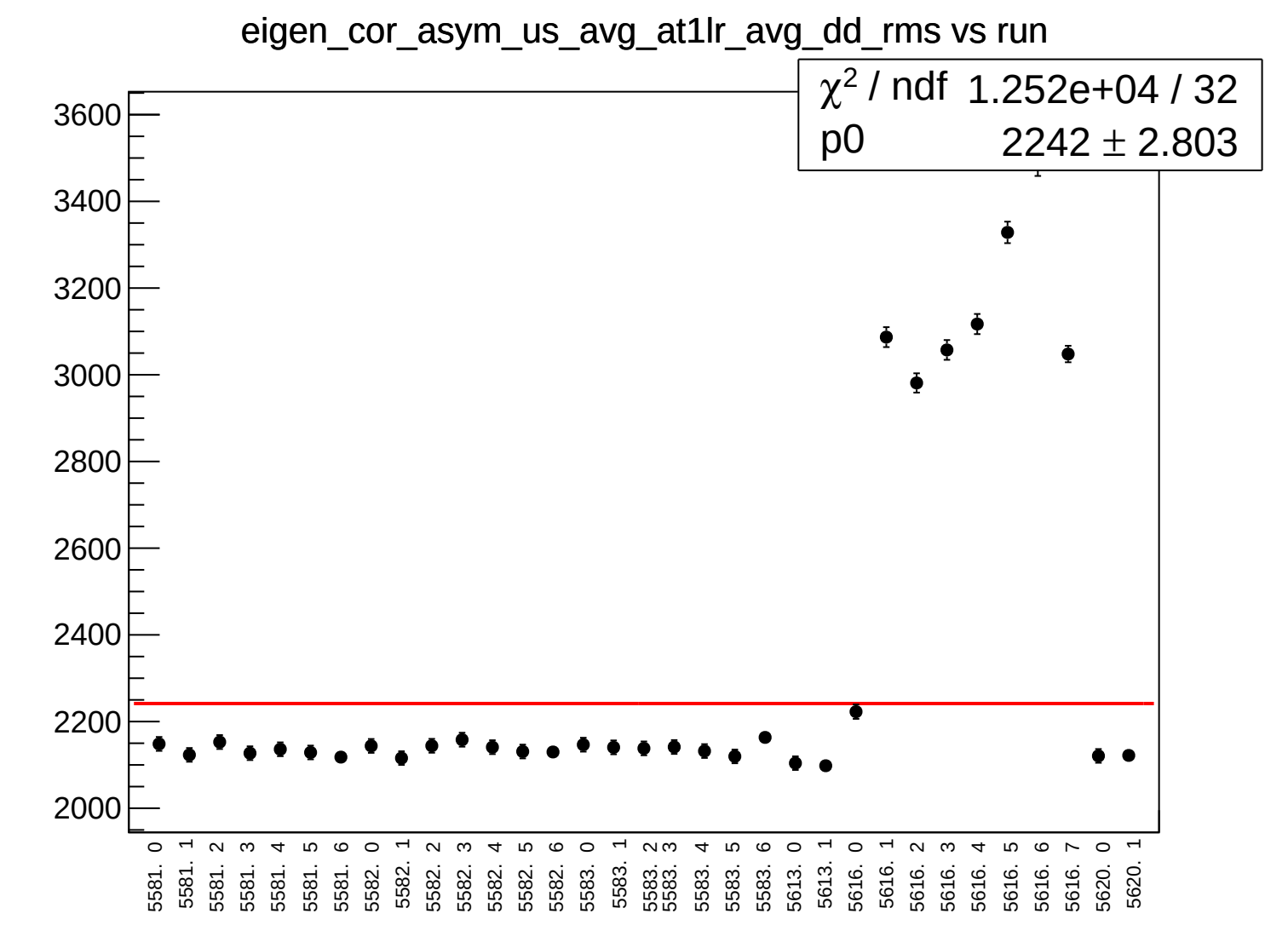

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 28.59 / 25
p0 455.5 ± 1091
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 58.5
Std Dev 0
2
1
0
−1
−2

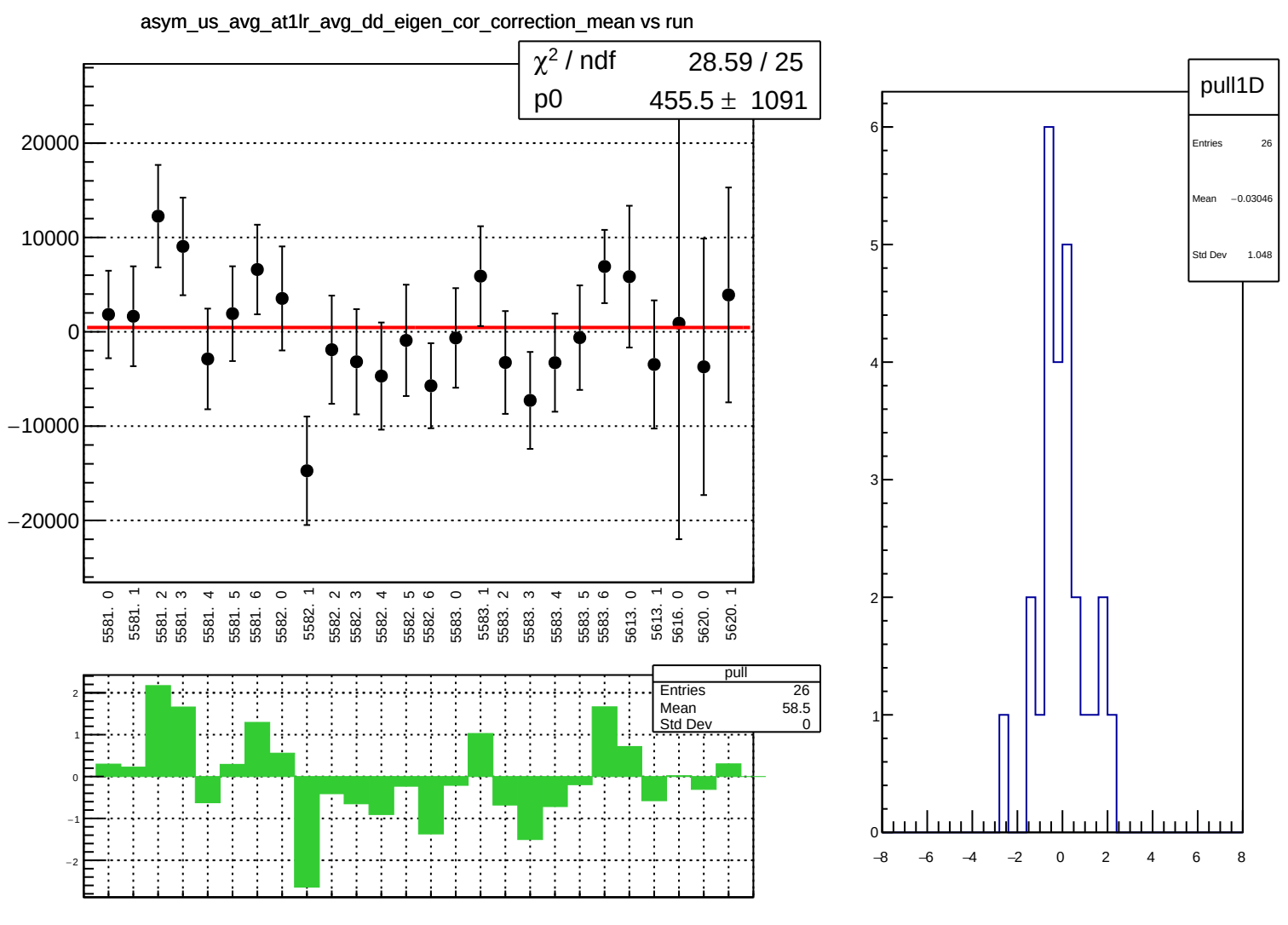

pull1D
Entries 26
Mean −0.03046
Std Dev 1.048
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

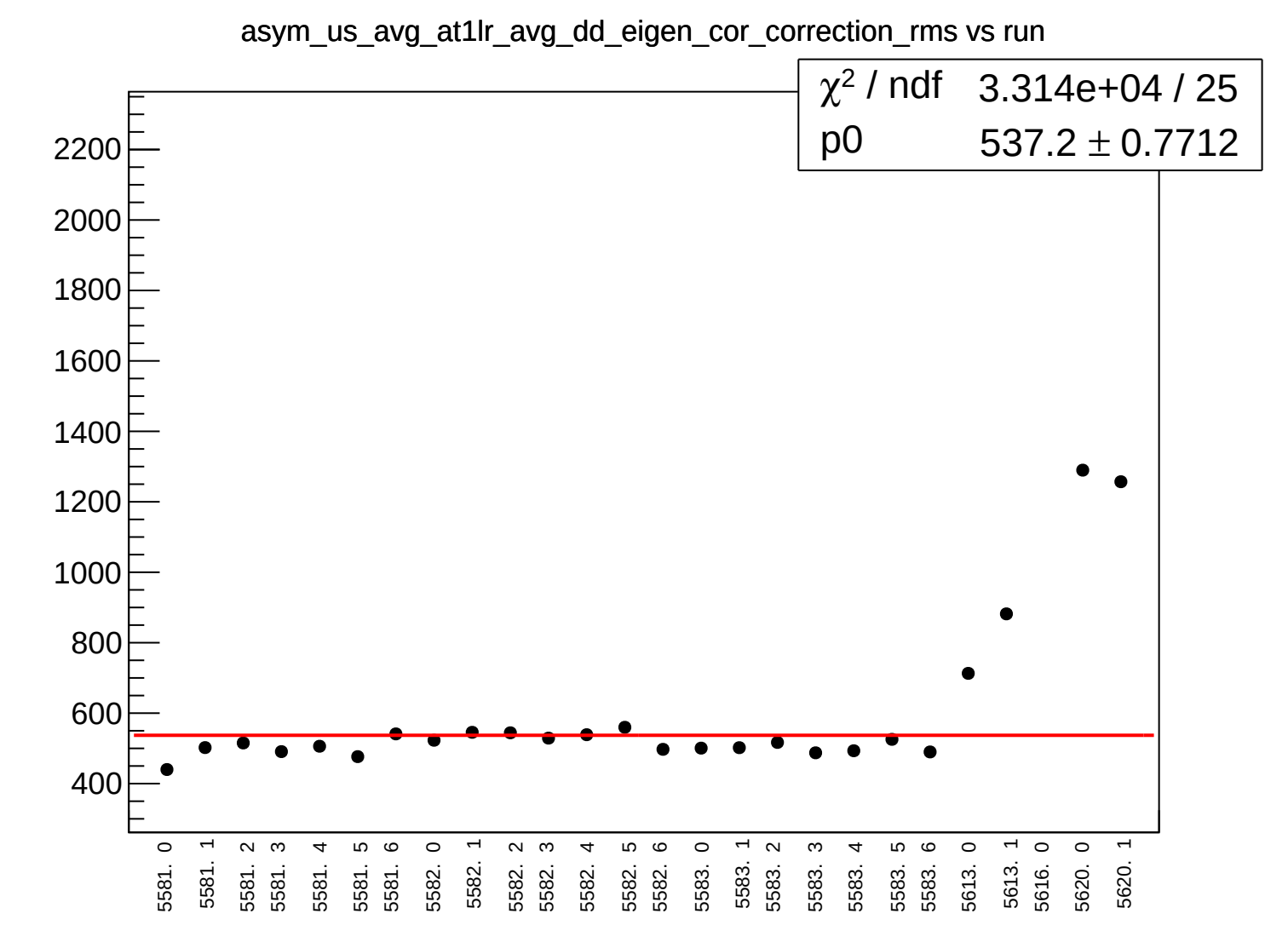

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.314e+04 / 25
p0 537.2 ± 0.7712
2200
2000
1800
1600
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

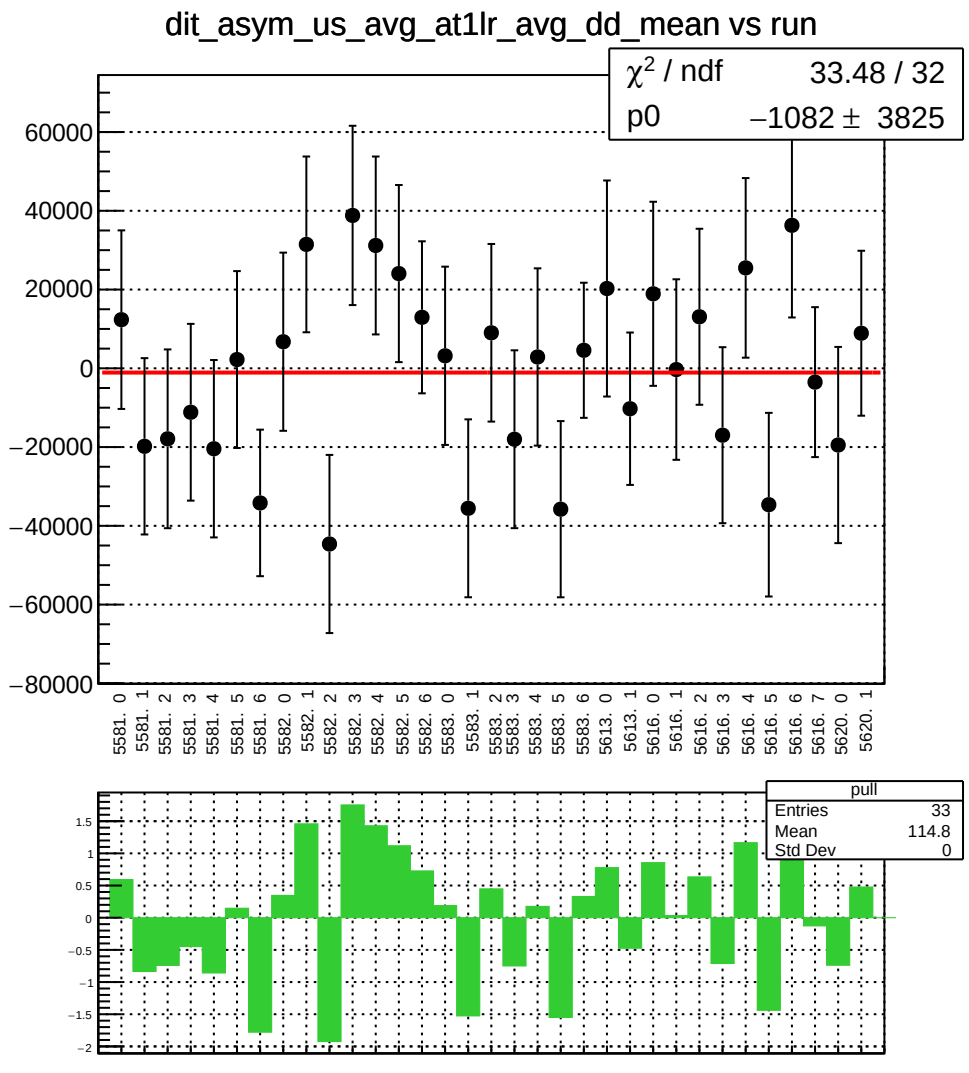

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
×10^3
χ² / ndf 34.19 / 32
p0 −563.5 ± 3964
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 54.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

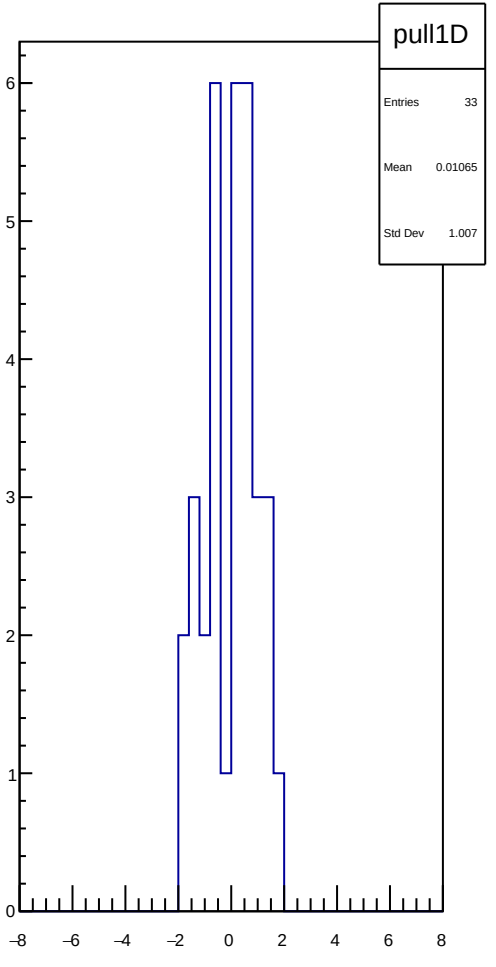

pull1D
Entries 33
Mean 0.04084
Std Dev 1.017
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

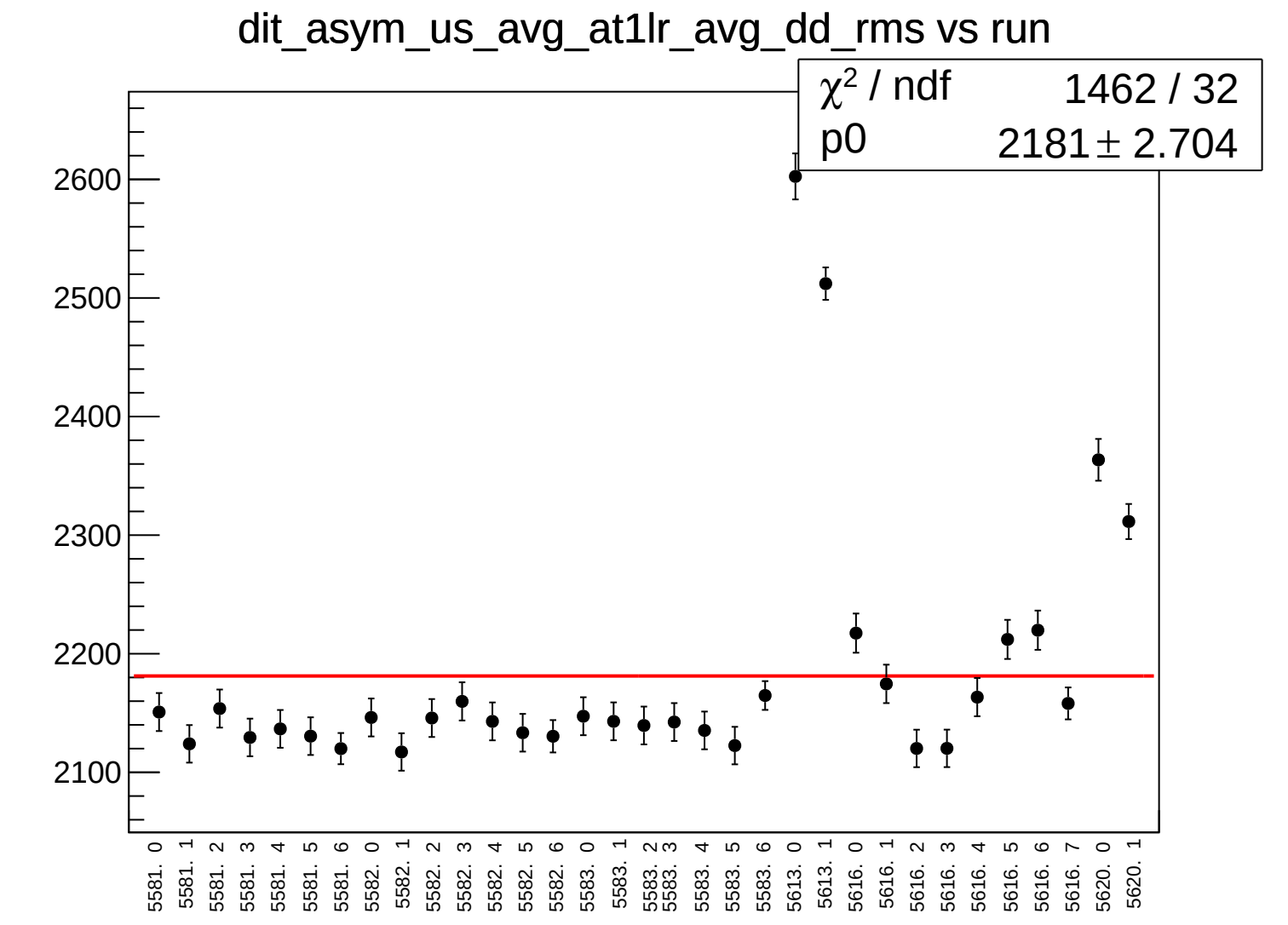

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1.252e+04 / 32
p0 2242 ± 2.803
3600
3400
3200
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

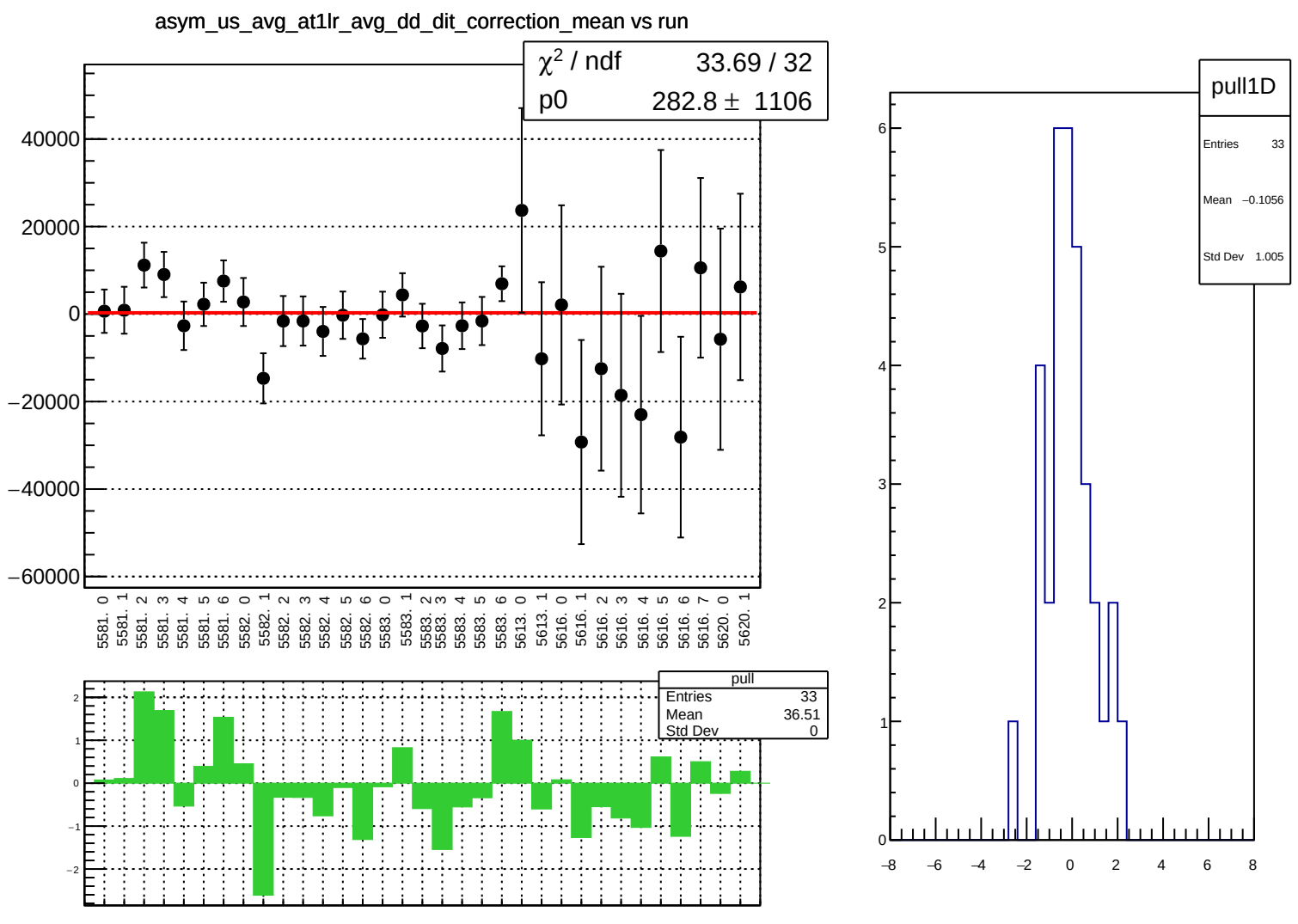

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 28.59 / 25
p0 455.5 ± 1091
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 58.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 26
Mean −0.03046
Std Dev 1.048
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

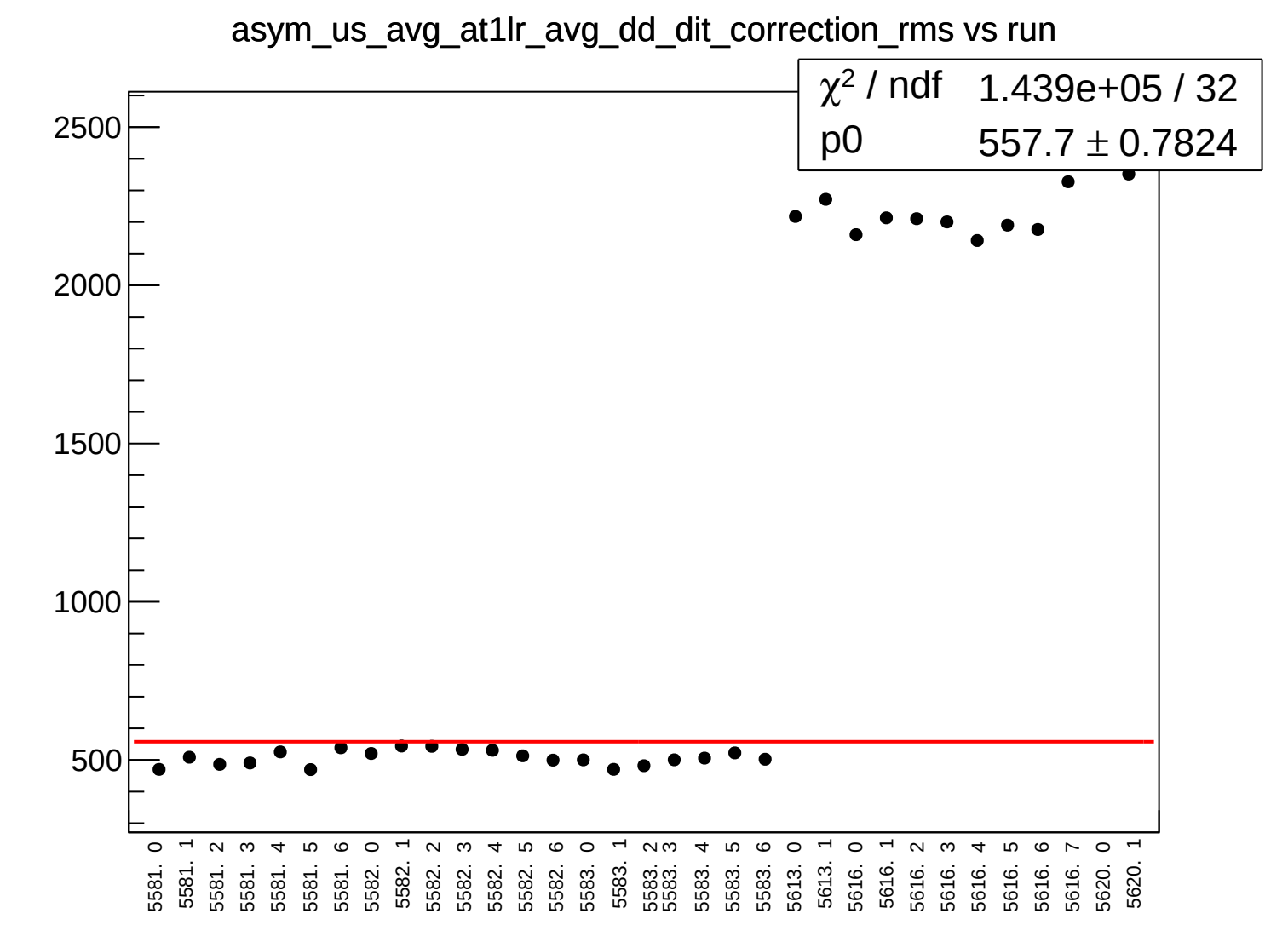

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.314e+04 / 25
p0 537.2 ± 0.7712
2200
2000
1800
1600
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

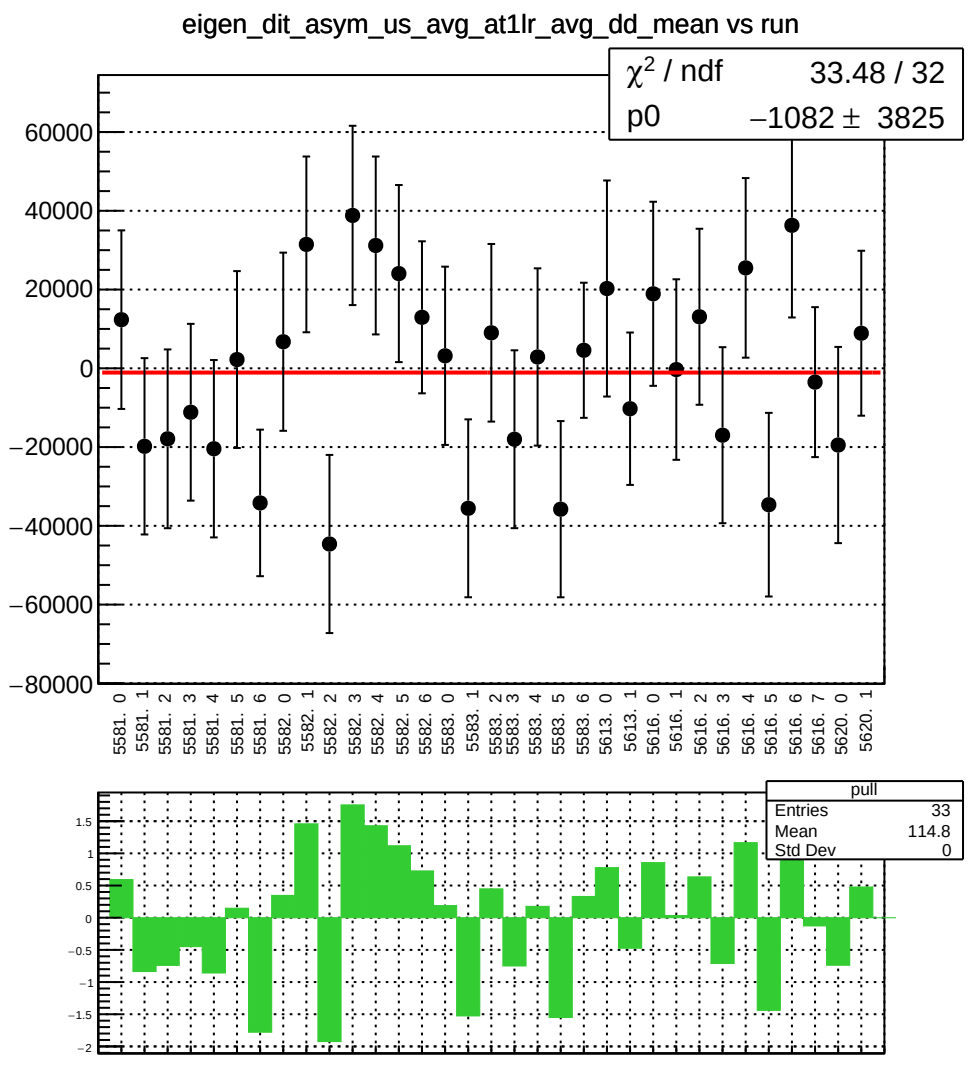

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 33.48 / 32
p0 −1082 ± 3825
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 114.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

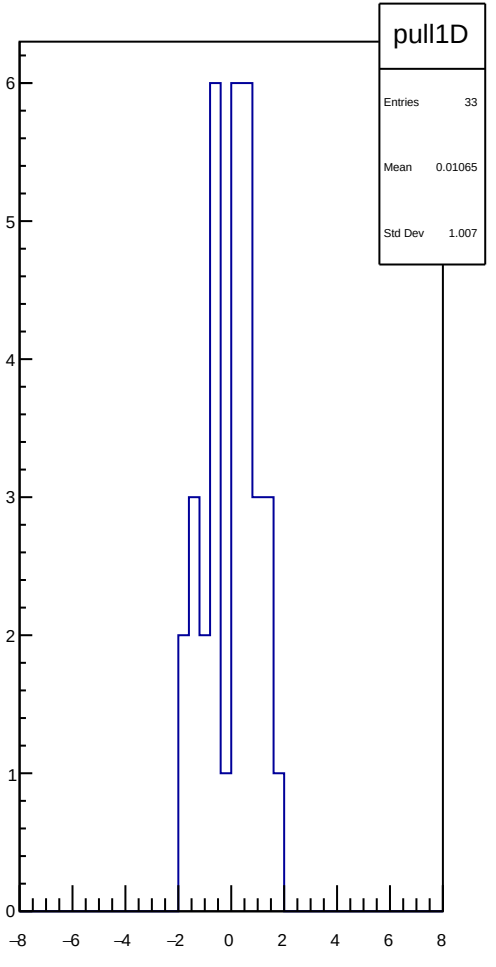

pull1D
Entries 33
Mean 0.01065
Std Dev 1.007
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

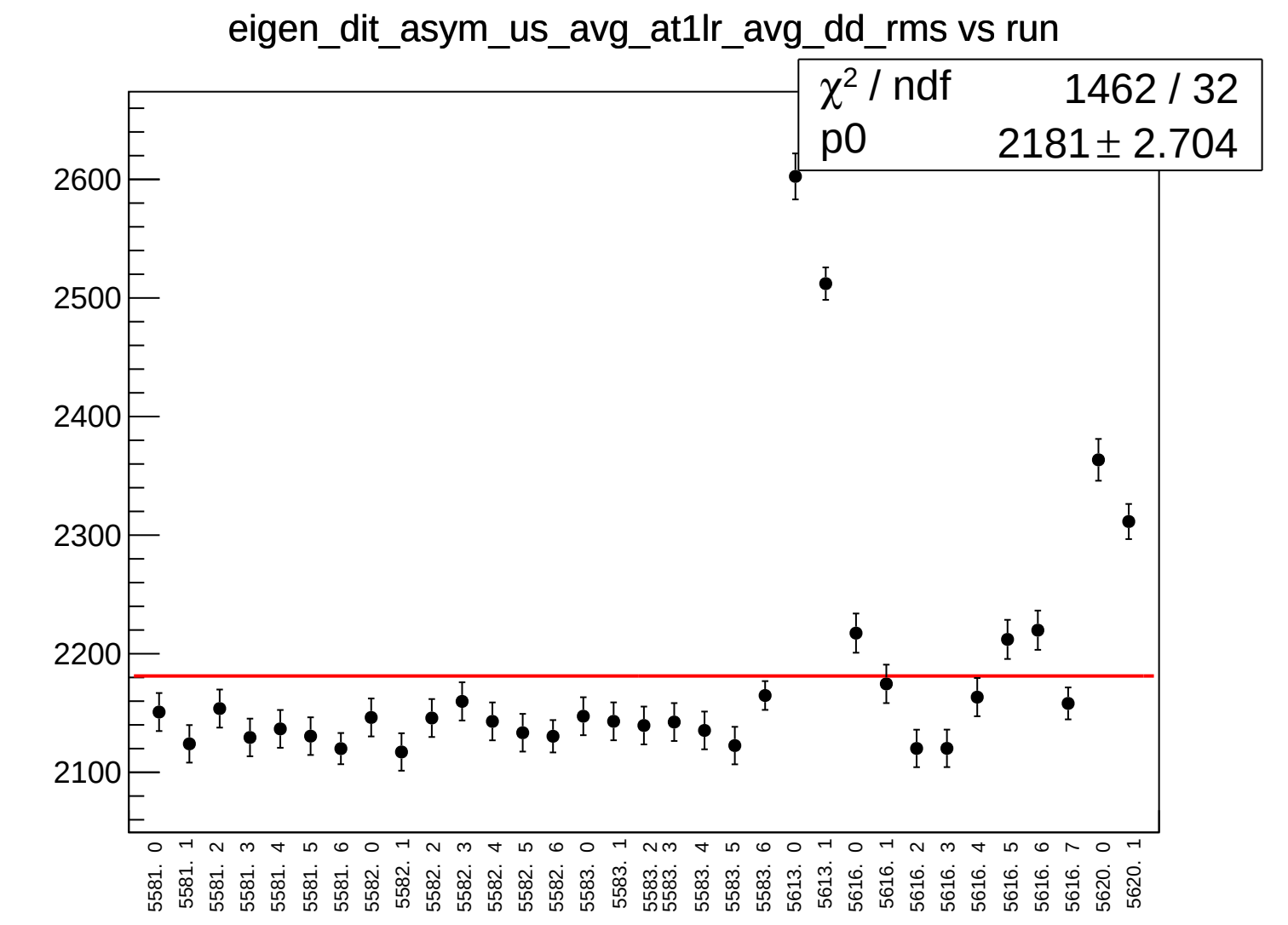

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1462 / 32
p0 2181 ± 2.704
2600
2500
2400
2300
2200
2100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

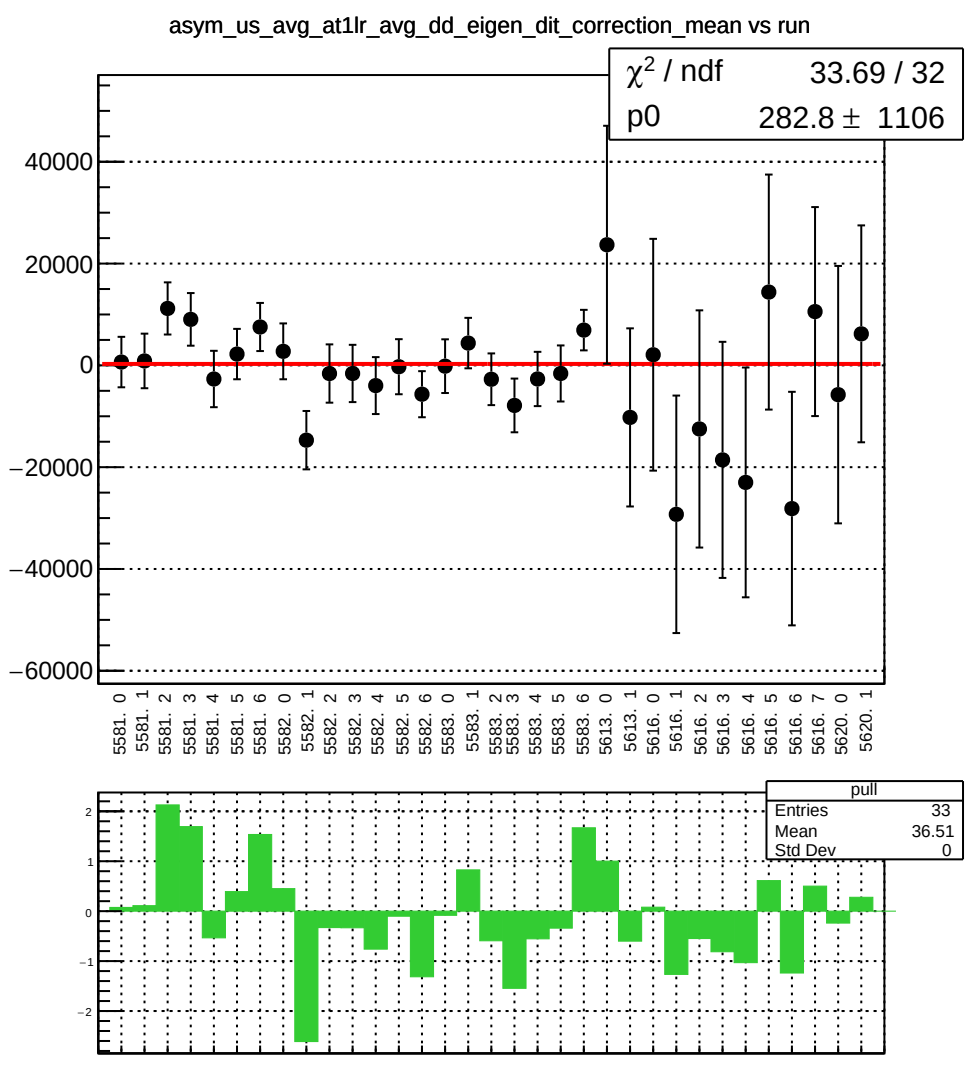

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 33.69 / 32
p0 282.8 ± 1106
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.1056
Std Dev 1.005
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

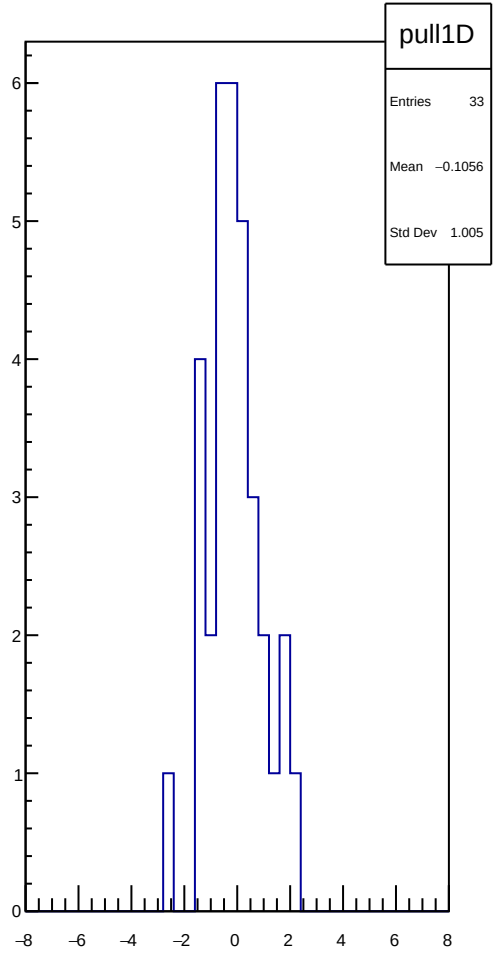

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.439e+05 / 32
p0 557.7 ± 0.7824
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

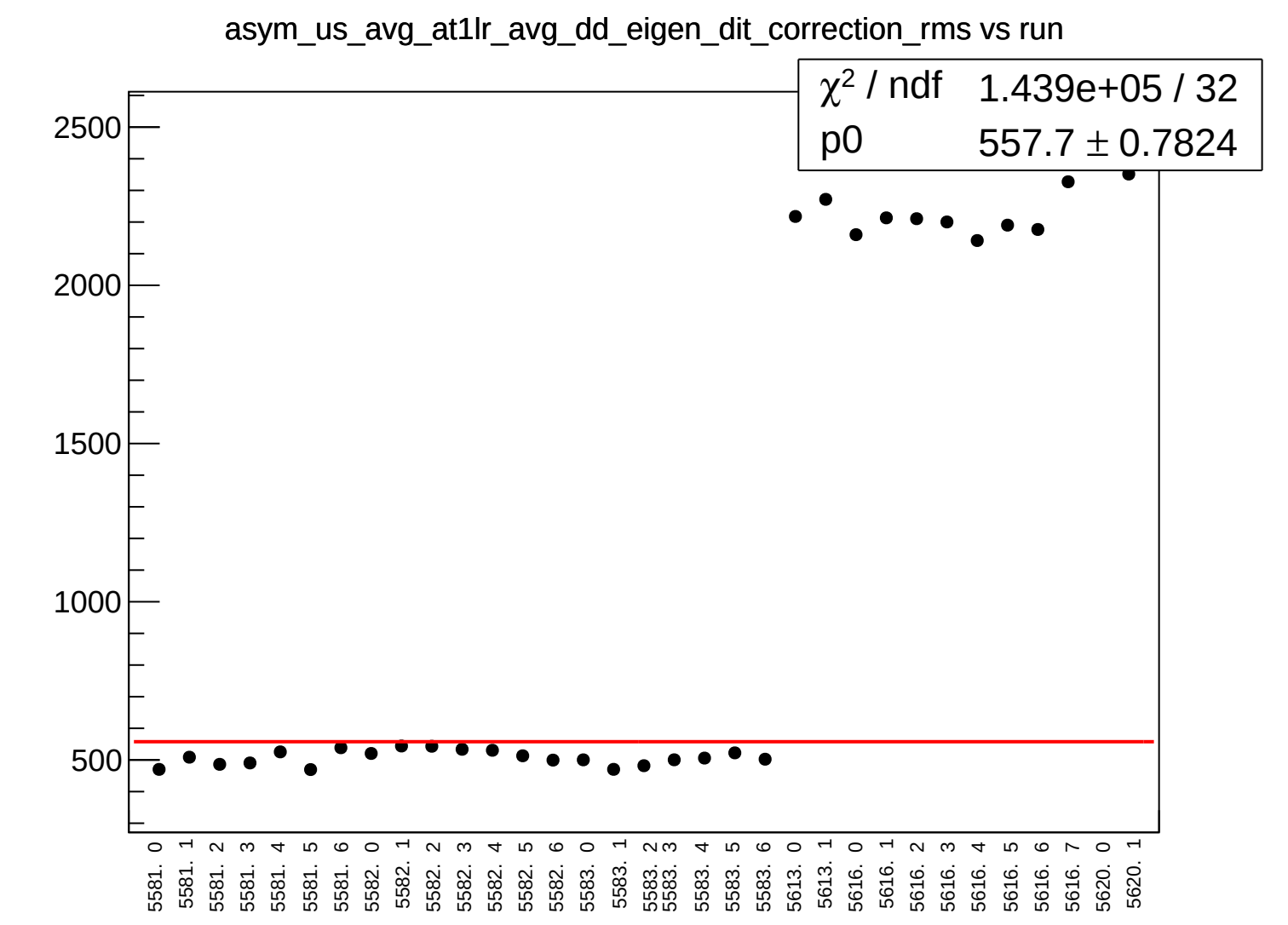

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 33.48 / 32
p0 −1082 ± 3825
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 114.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

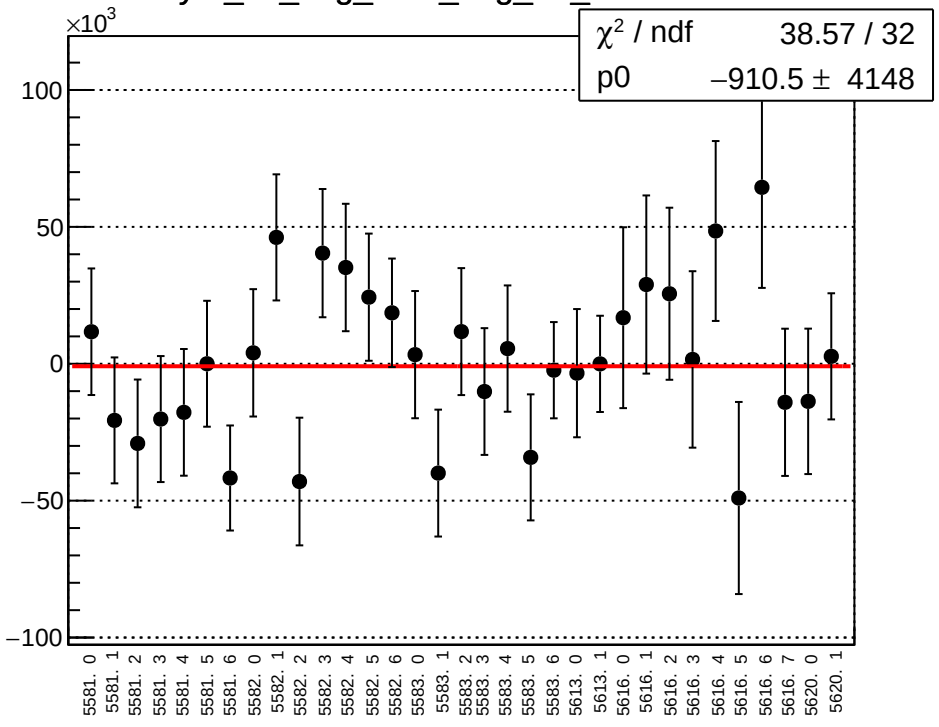

pull1D
Entries 33
Mean 0.01065
Std Dev 1.007
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

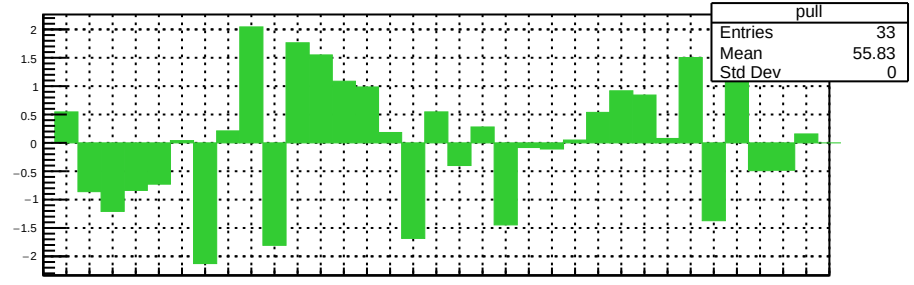

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1462 / 32
p0 2181 ± 2.704
2600
2500
2400
2300
2200
2100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

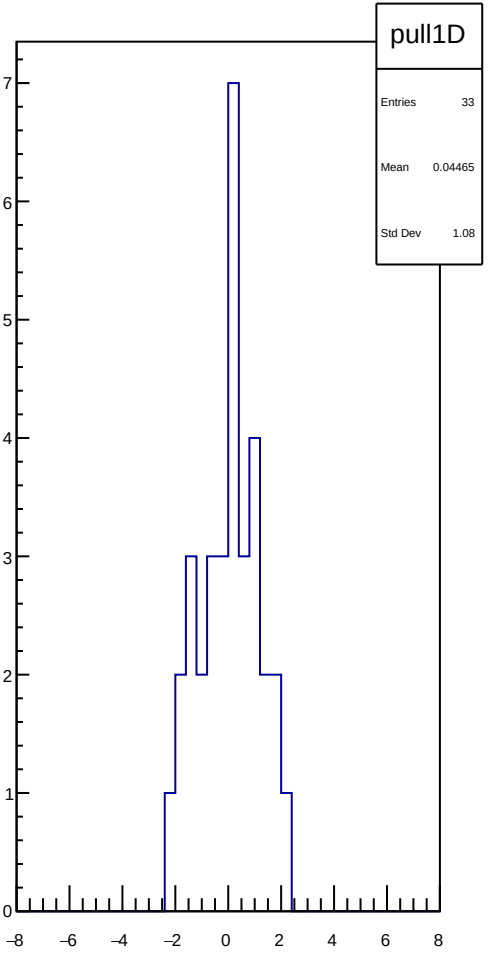

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 33.69 / 32
p0 282.8 ± 1106
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.51
Std Dev 0
2
1
0
−1
−2

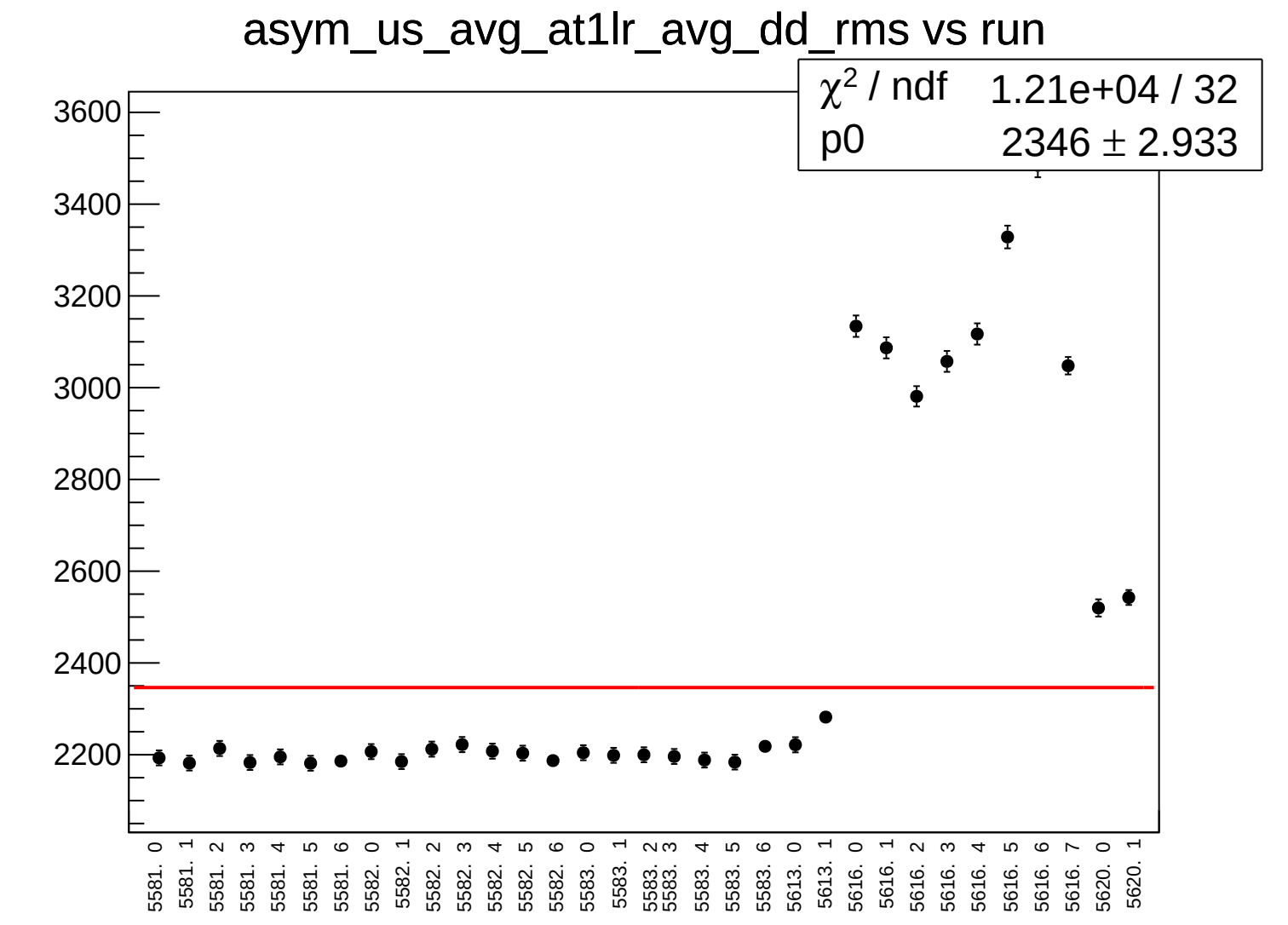

pull1D
Entries 33
Mean −0.1056
Std Dev 1.005
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

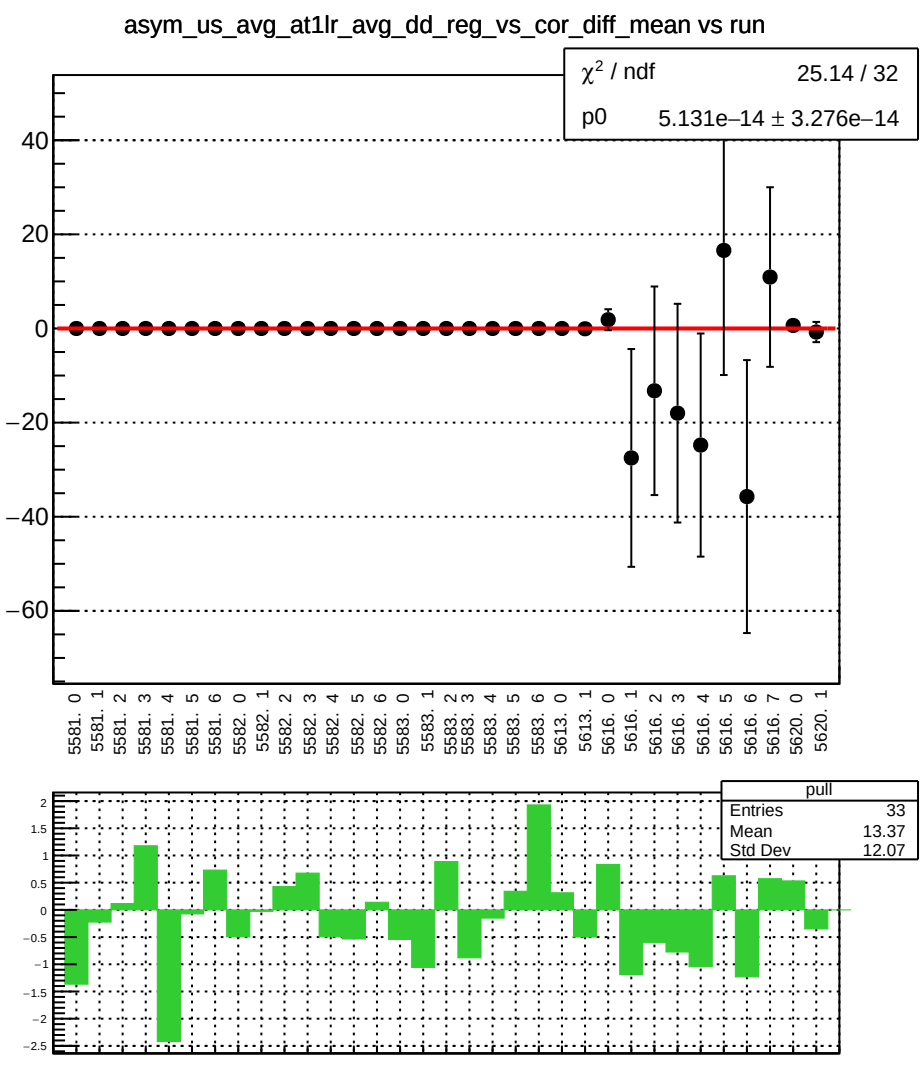

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.439e+05 / 32
p0 557.7 ± 0.7824
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

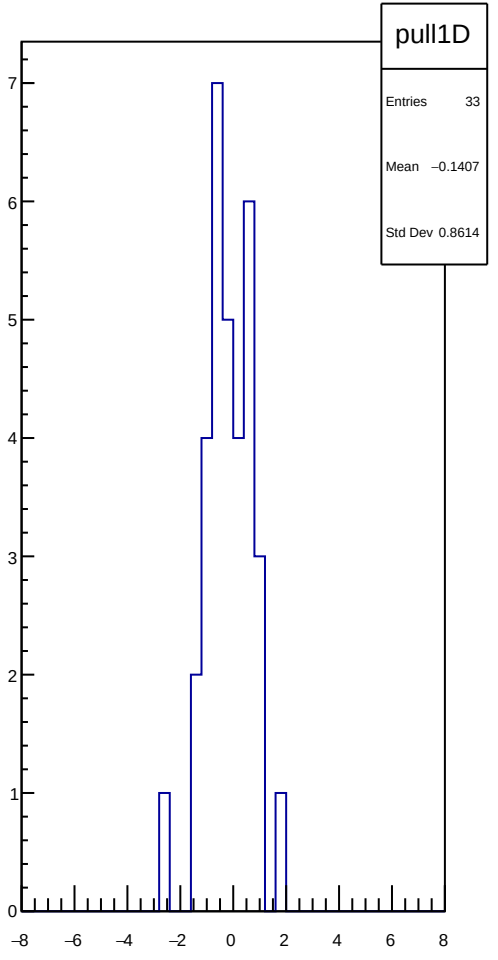

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 38.57 / 32
p0 −910.5 ± 4148
×10³
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

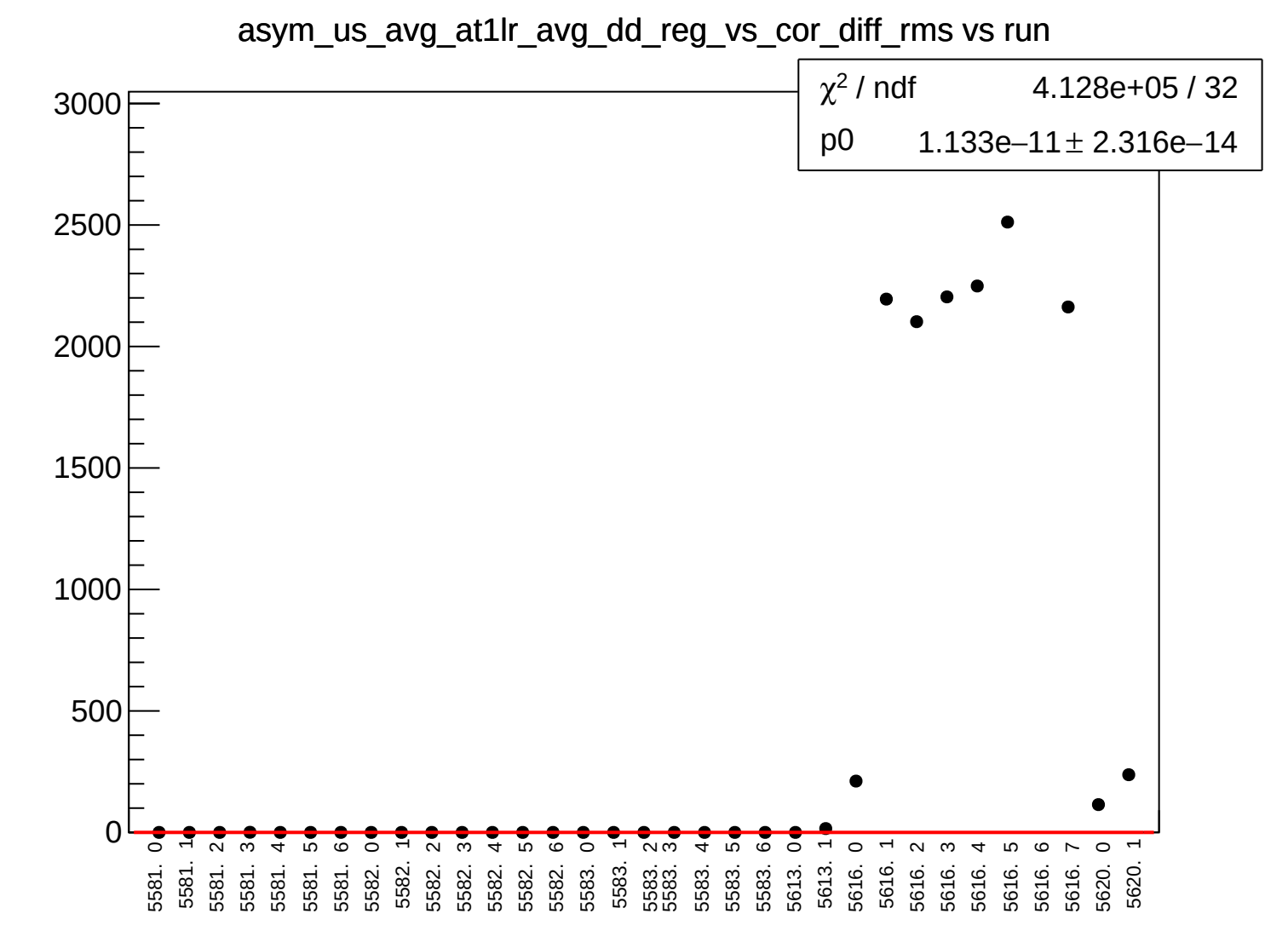

pull
Entries 33
Mean 55.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

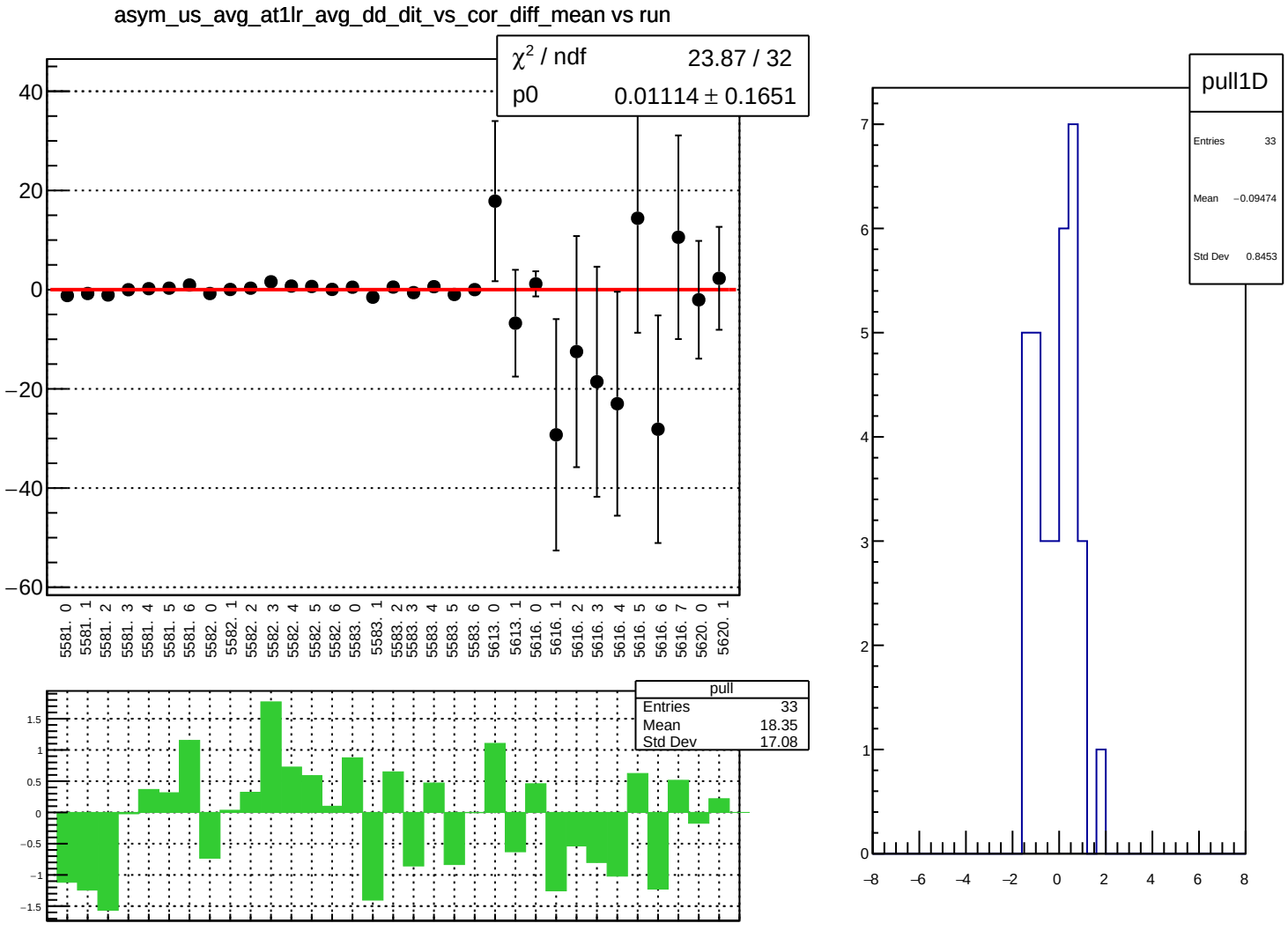

pull1D
Entries 33
Mean 0.04465
Std Dev 1.08
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

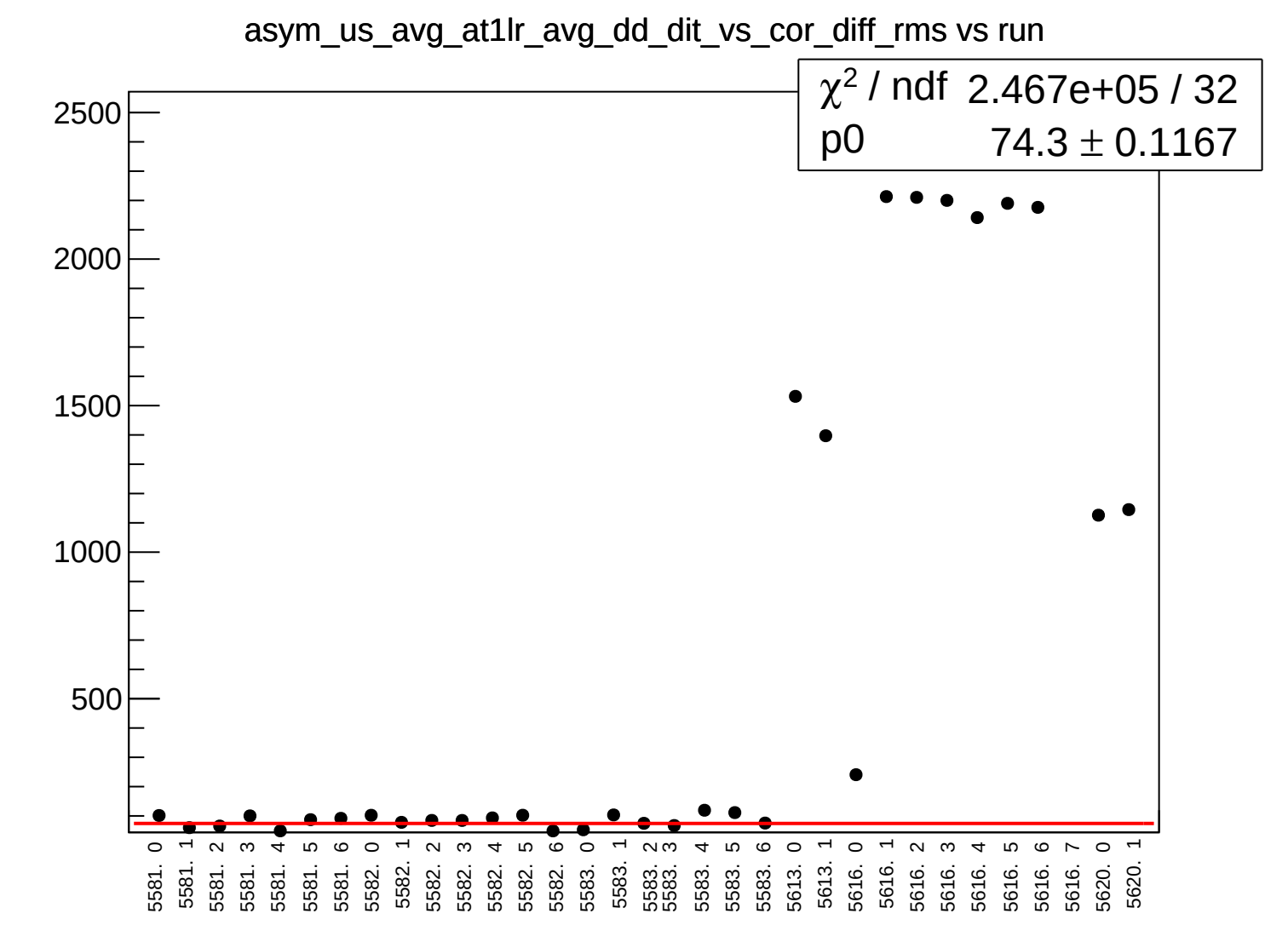

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1.21e+04 / 32
p0 2346 ± 2.933
3600
3400
3200
3000
2800
2600
2400
2200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

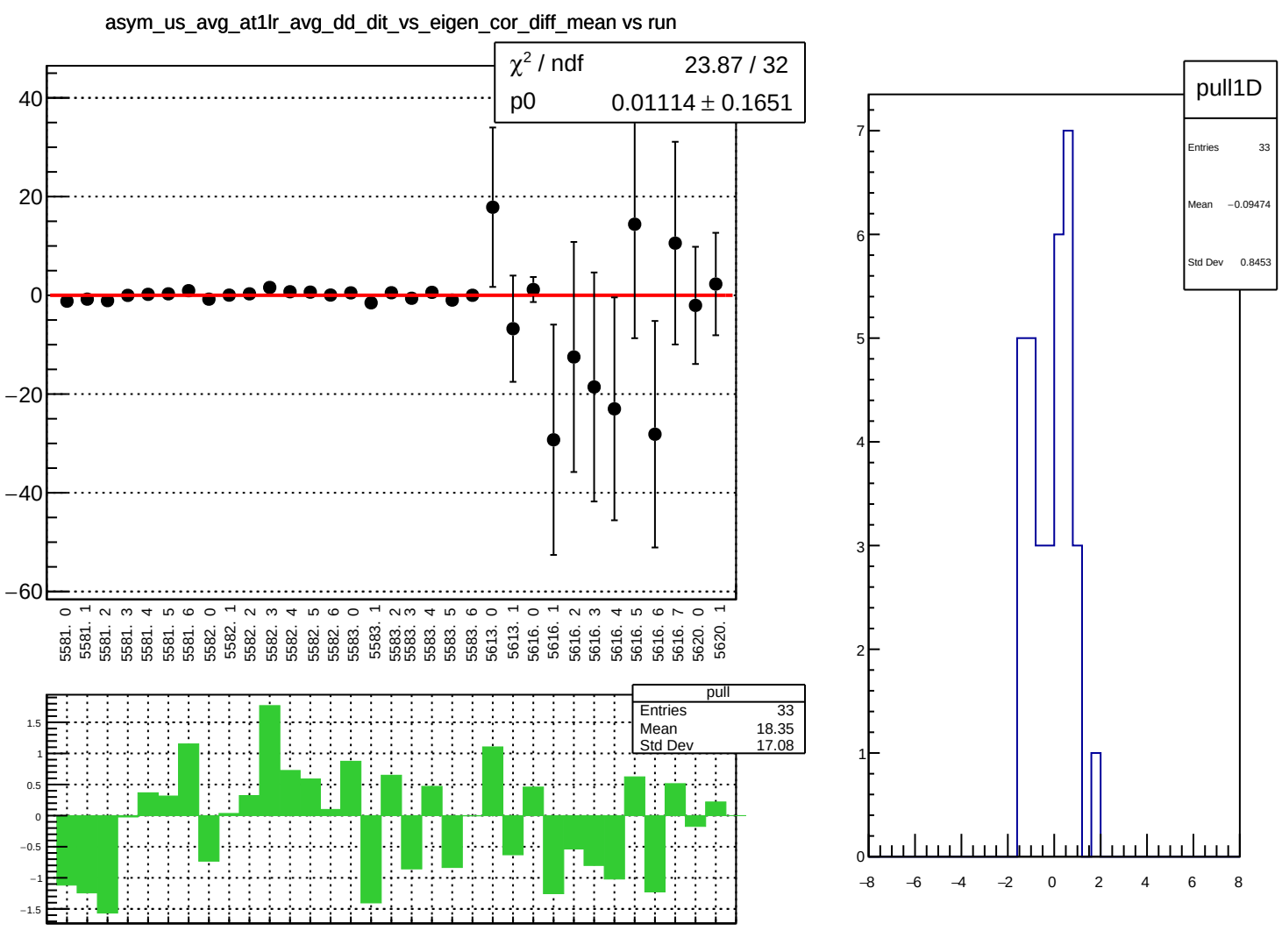

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 25.14 / 32
p0 5.131e−14 ± 3.276e−14
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 13.37
Std Dev 12.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

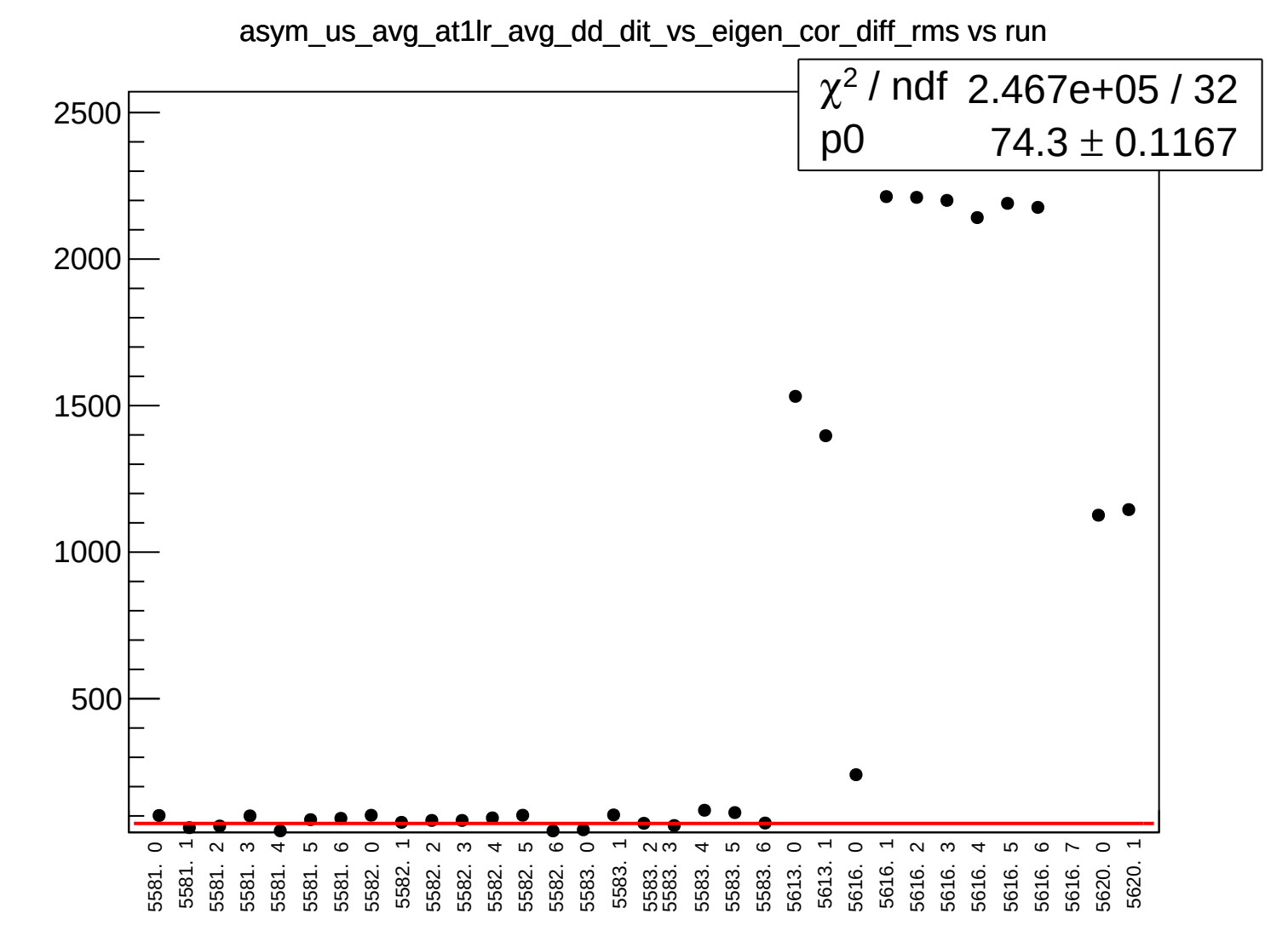

pull1D
Entries 33
Mean −0.1407
Std Dev 0.8614
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

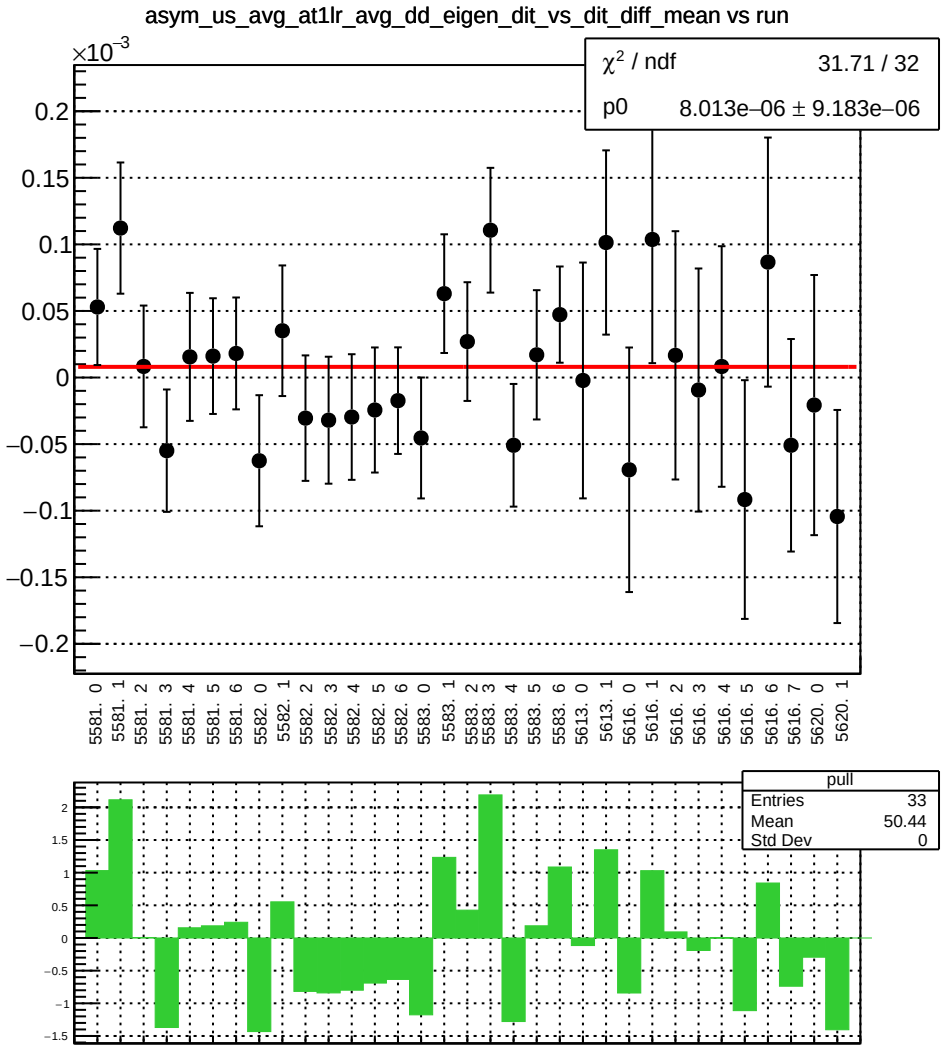

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.128e+05 / 32
p0 1.133e−11 ± 2.316e−14
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

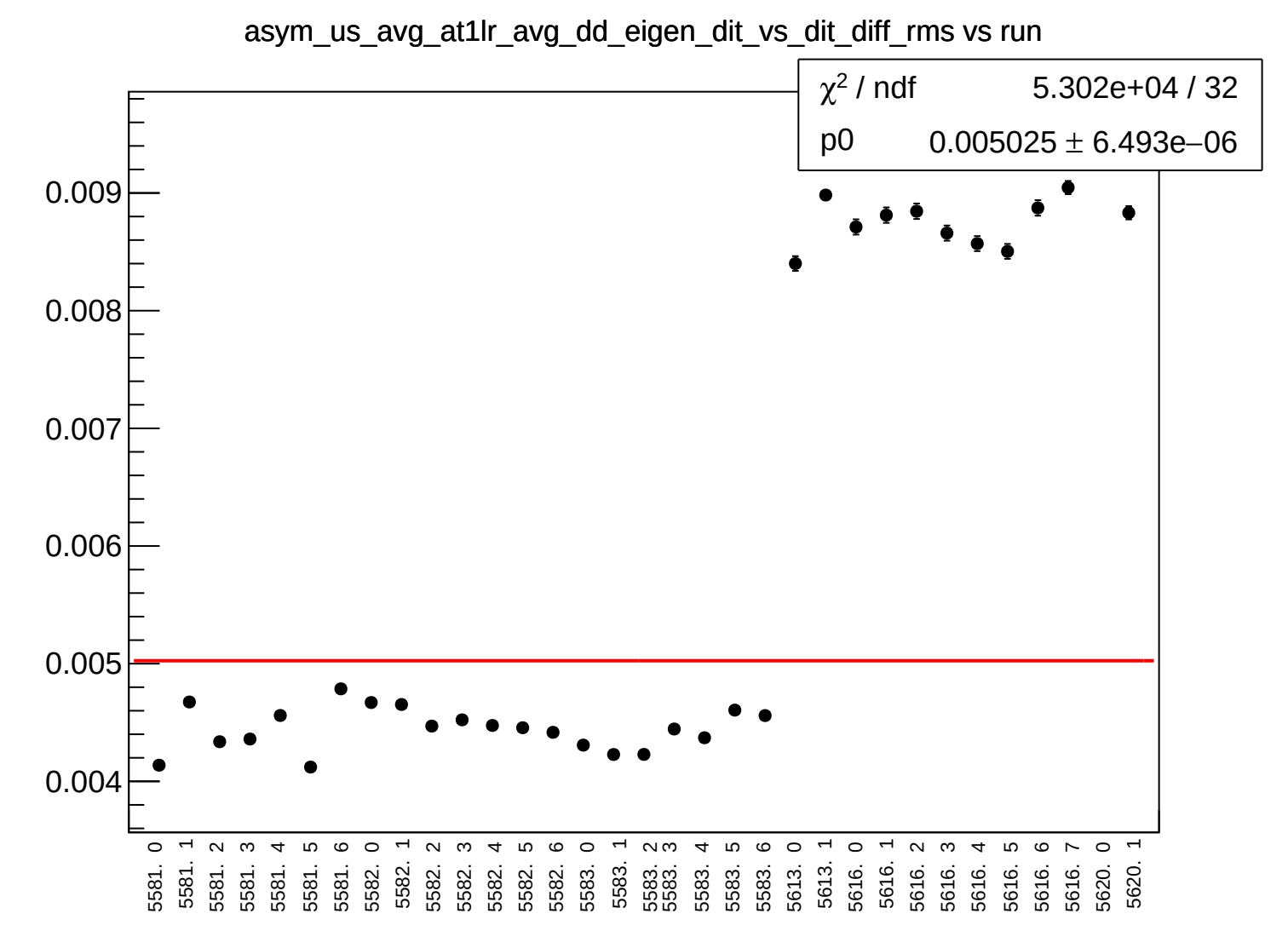

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 23.87 / 32
p0 0.01114 ± 0.1651
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.35
Std Dev 17.08
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.09474
Std Dev 0.8453
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

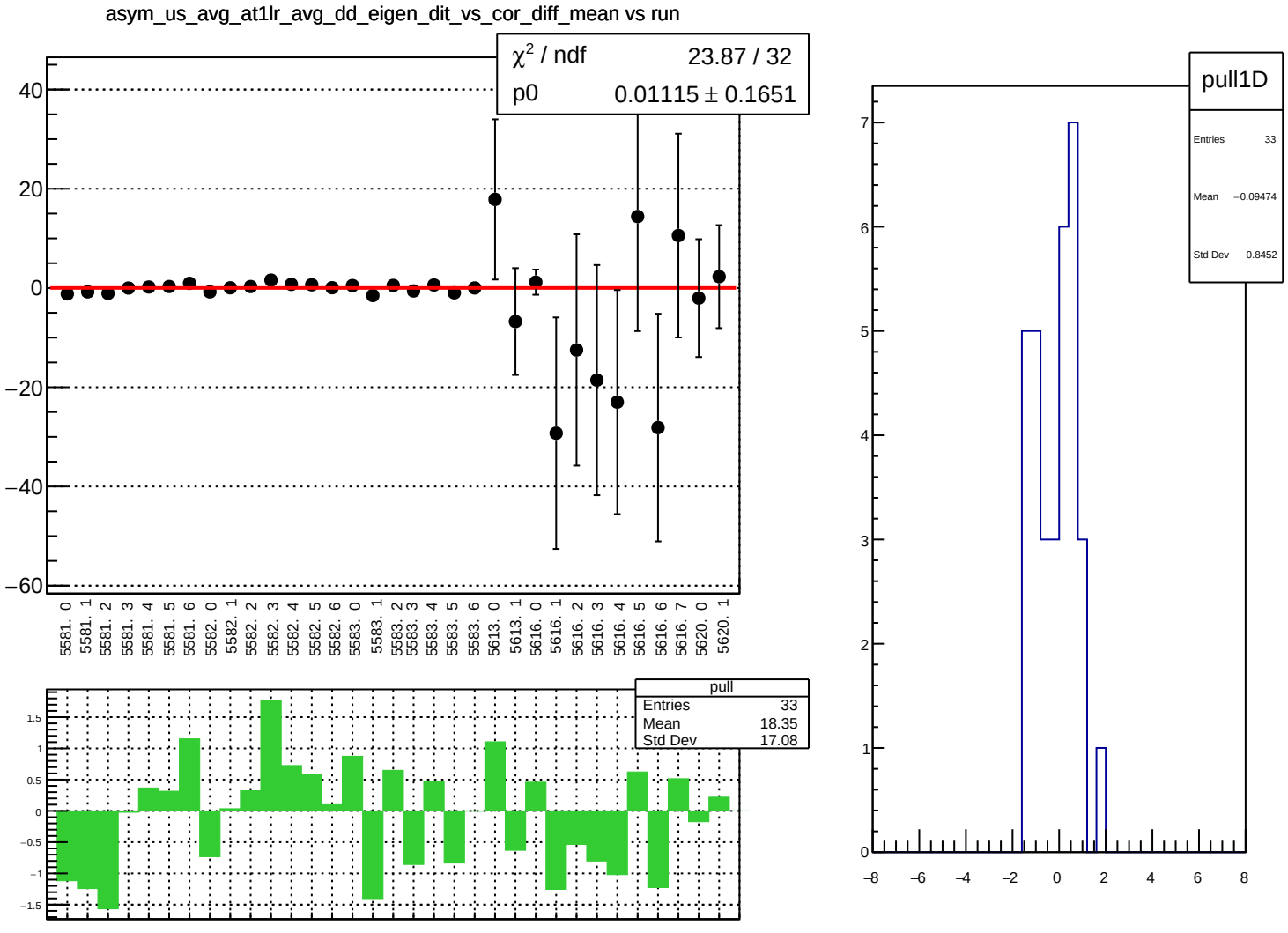

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.467e+05 / 32
p0 74.3 ± 0.1167
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

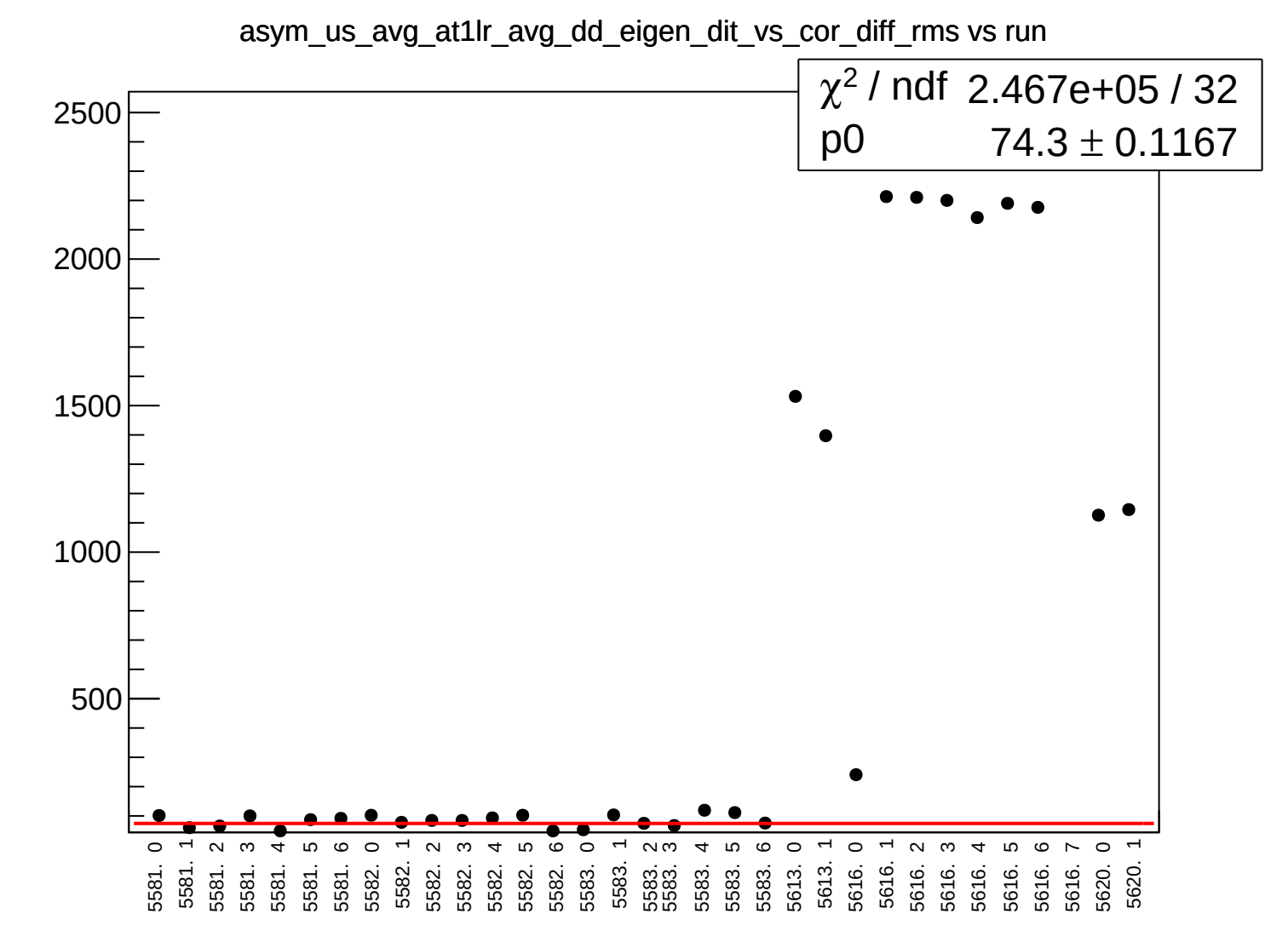

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.87 / 32
p0 0.01114 ± 0.1651
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.35
Std Dev 17.08
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.09474
Std Dev 0.8453
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

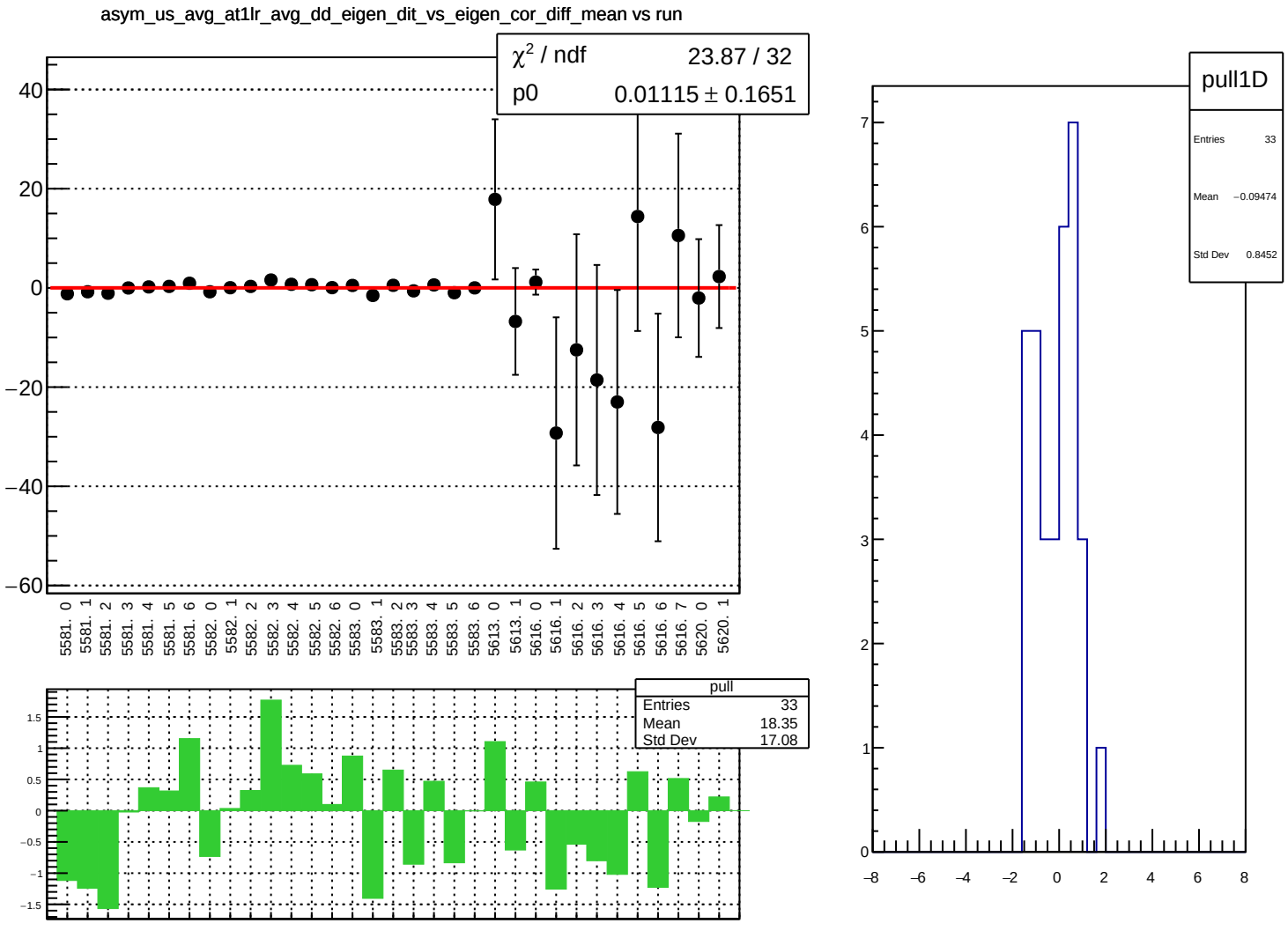

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.467e+05 / 32
p0 74.3 ± 0.1167
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

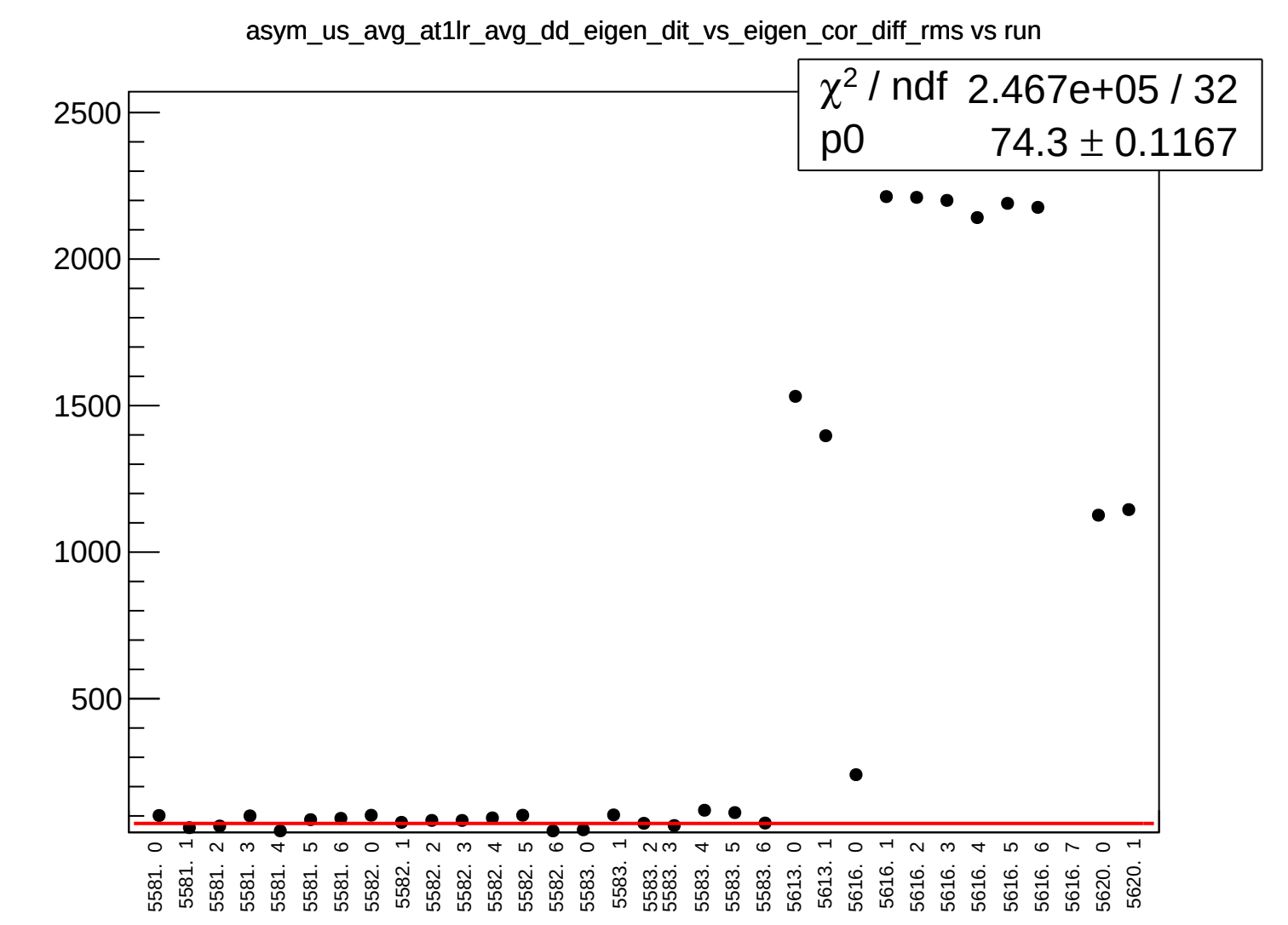

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.71 / 32
p0 8.013e−06 ± 9.183e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 50.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.03043
Std Dev 0.9797
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

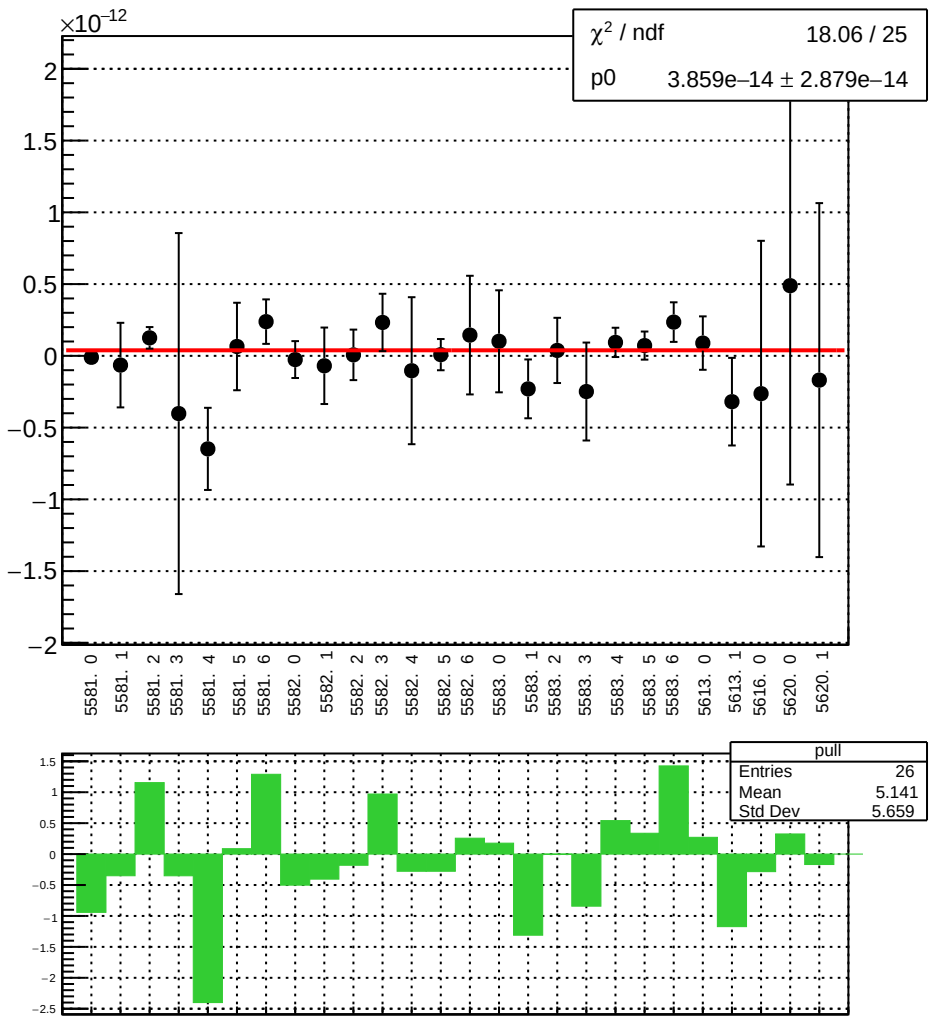

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.302e+04 / 32
p0 0.005025 ± 6.493e−06
0.009
0.008
0.007
0.006
0.005
0.004
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

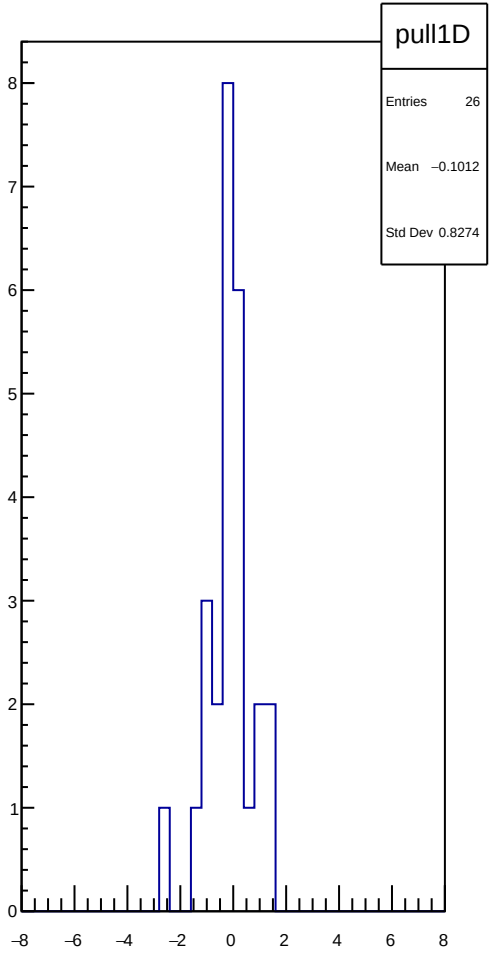

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.87 / 32
p0 0.01115 ± 0.1651
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.35
Std Dev 17.08
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.09474
Std Dev 0.8452
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

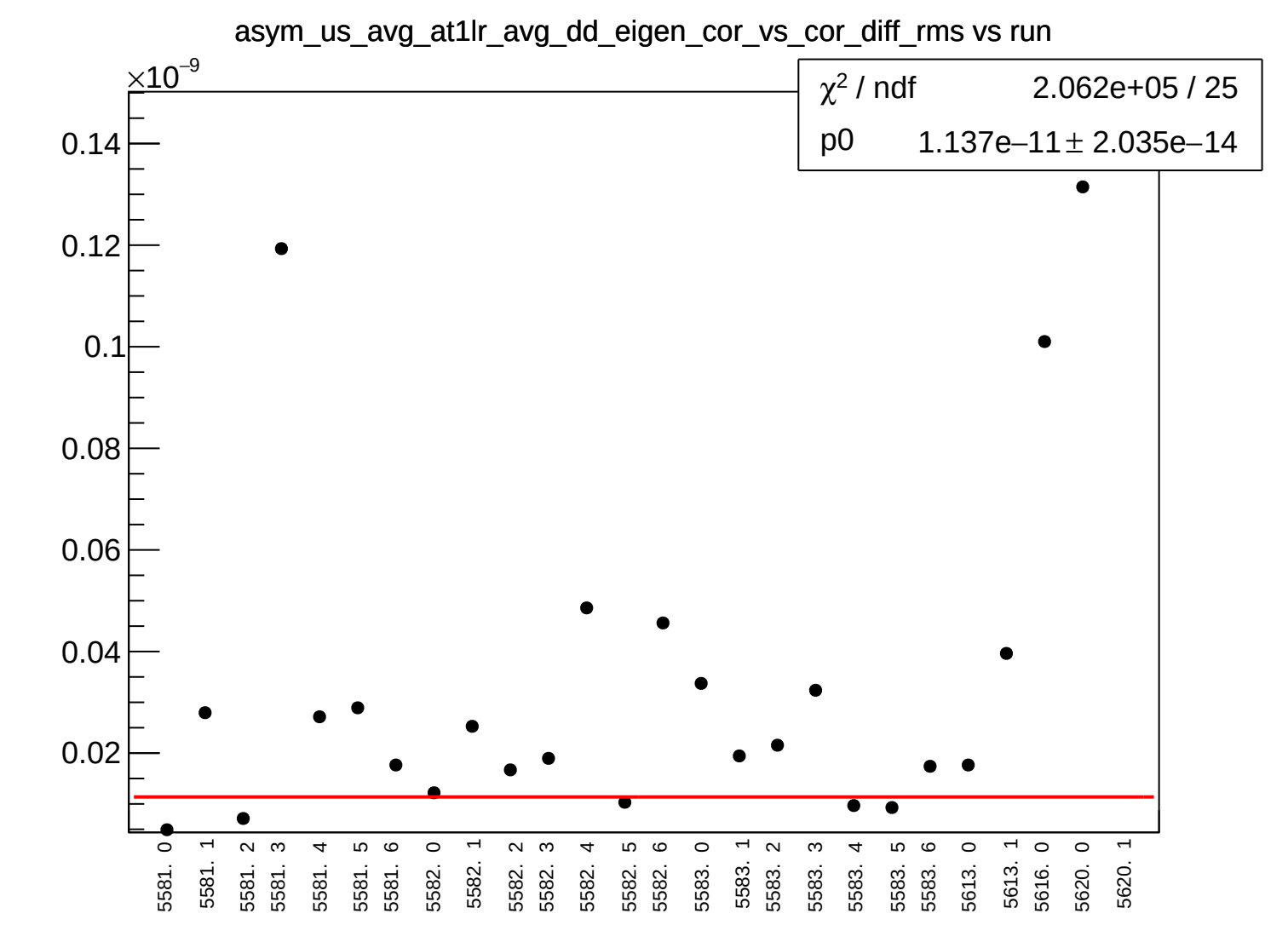

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.467e+05 / 32
p0 74.3 ± 0.1167
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

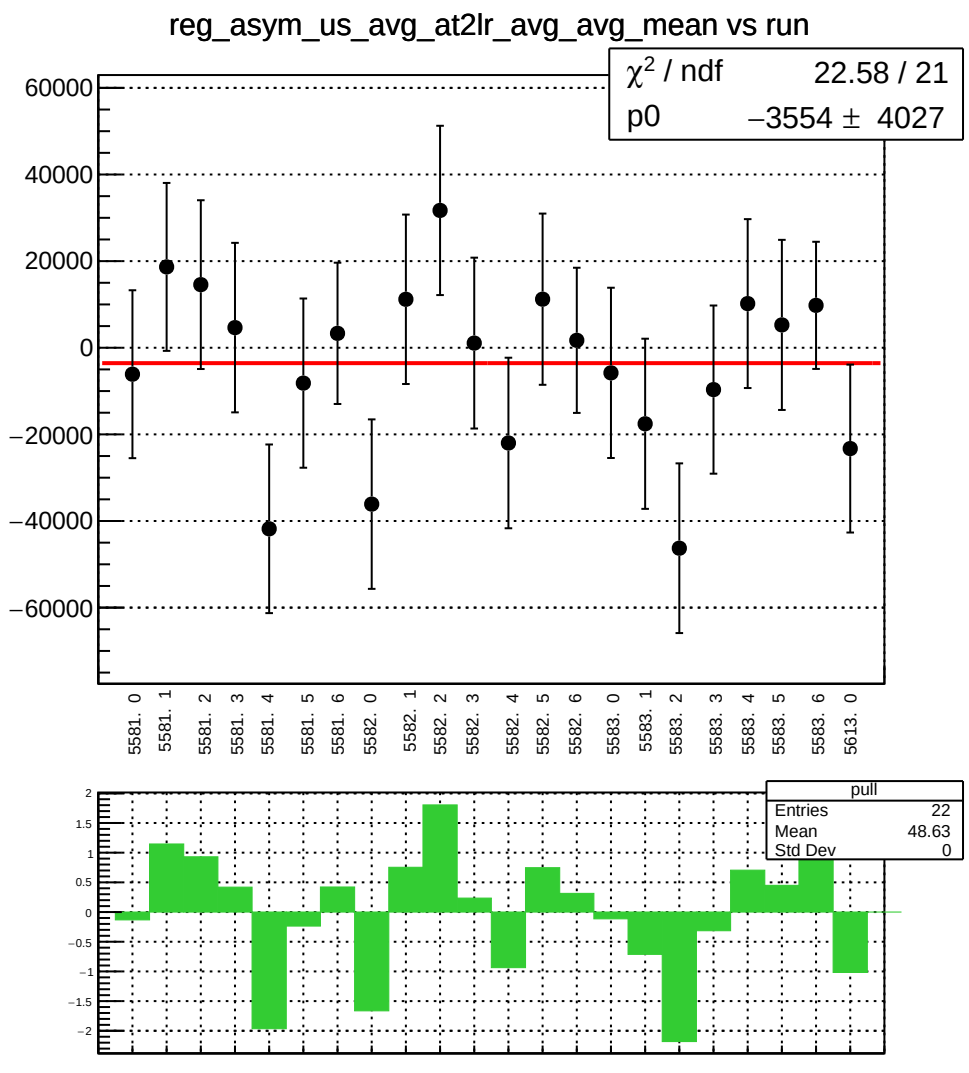

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.87 / 32
p0 0.01115 ± 0.1651
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.35
Std Dev 17.08
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.09474
Std Dev 0.8452
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

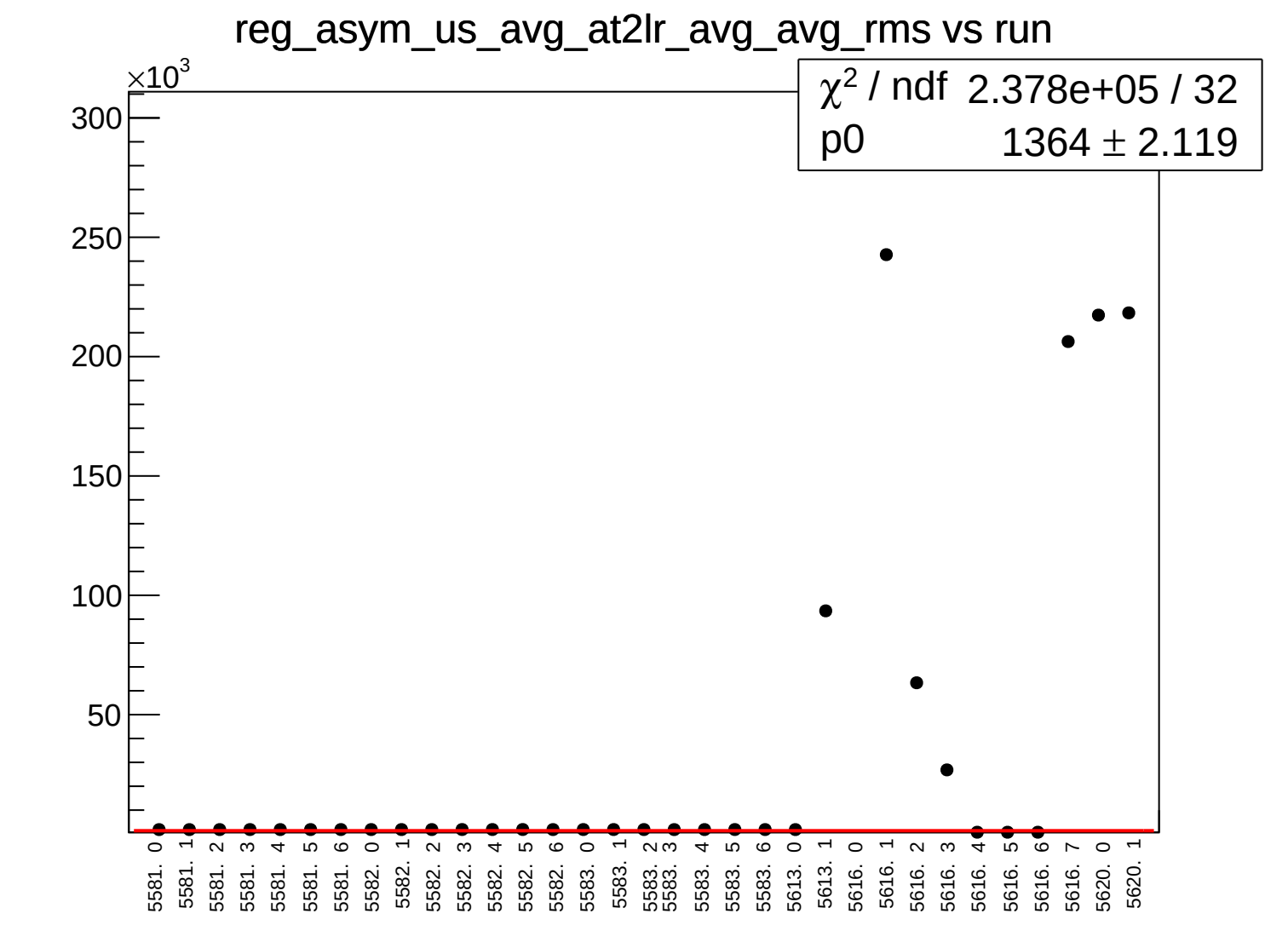

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.467e+05 / 32
p0 74.3 ± 0.1167
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

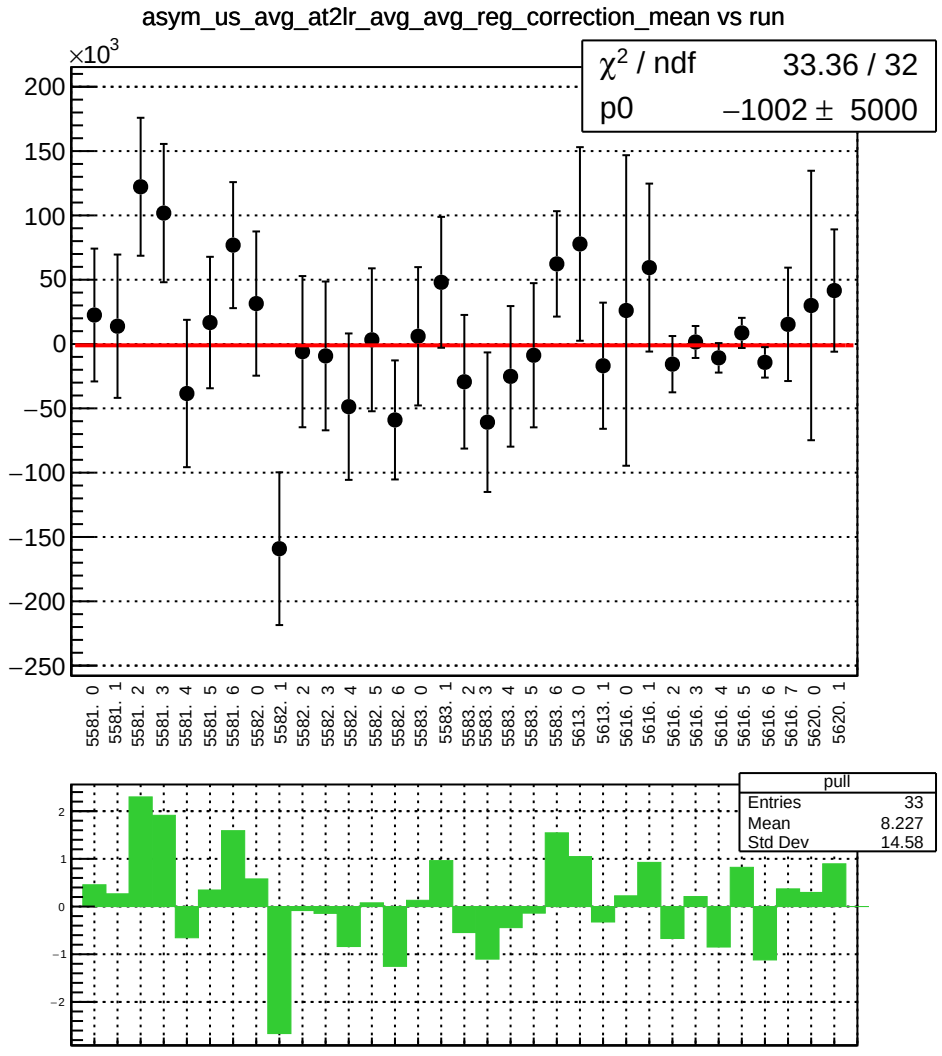

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 18.06 / 25
p0 3.859e−14 ± 2.879e−14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 5.141
Std Dev 5.659
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

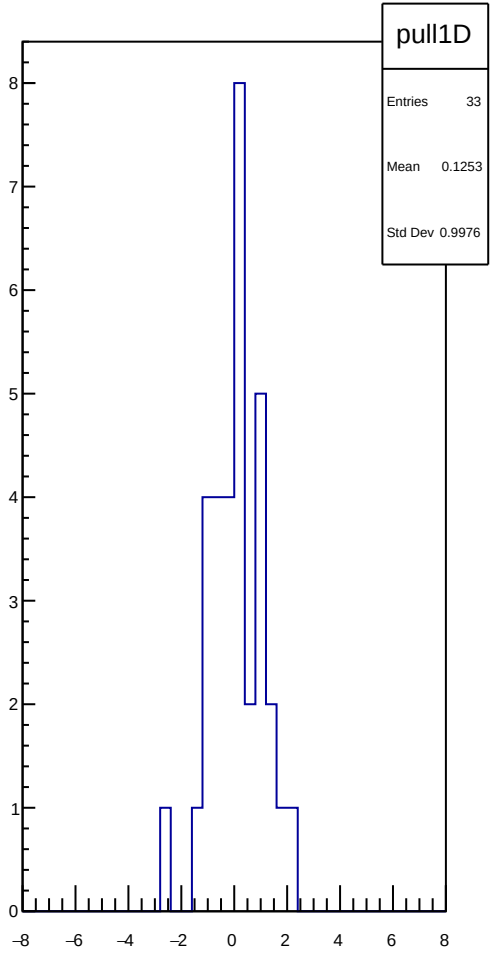

pull1D
Entries 26
Mean −0.1012
Std Dev 0.8274
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

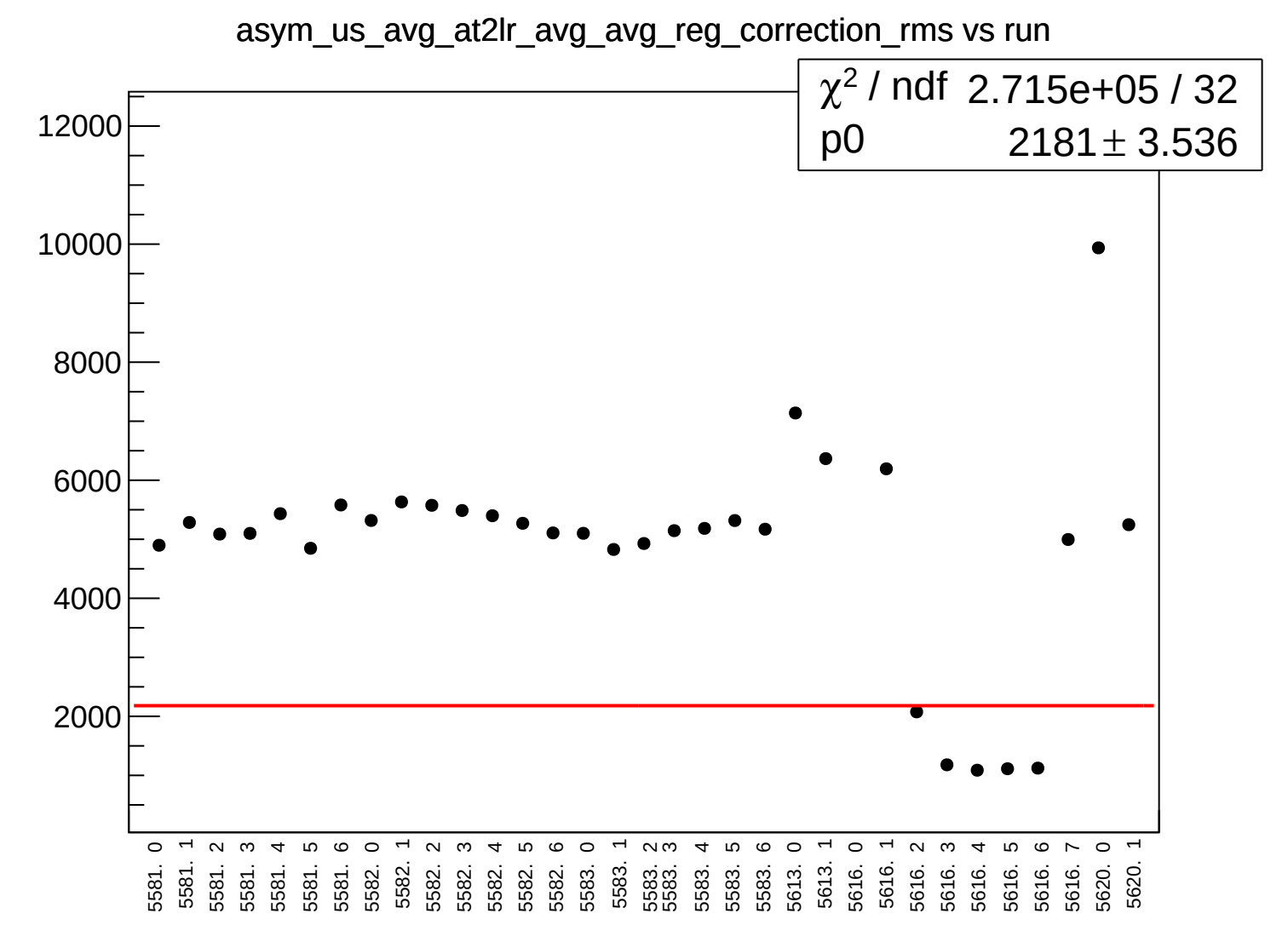

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.062e+05 / 25
p0 1.137e−11 ± 2.035e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

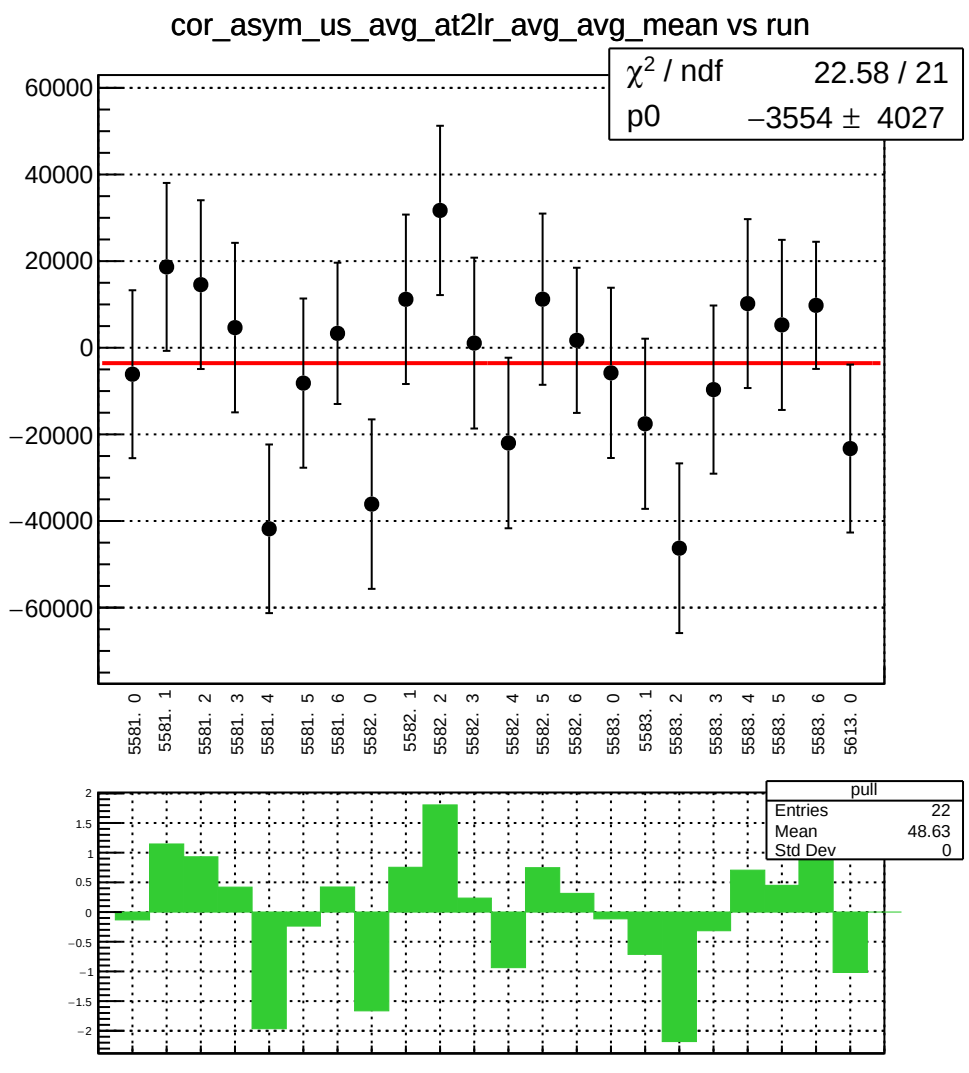

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 22.58 / 21
p0 −3554 ± 4027
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 48.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 22
Mean −0.01983
Std Dev 1.013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

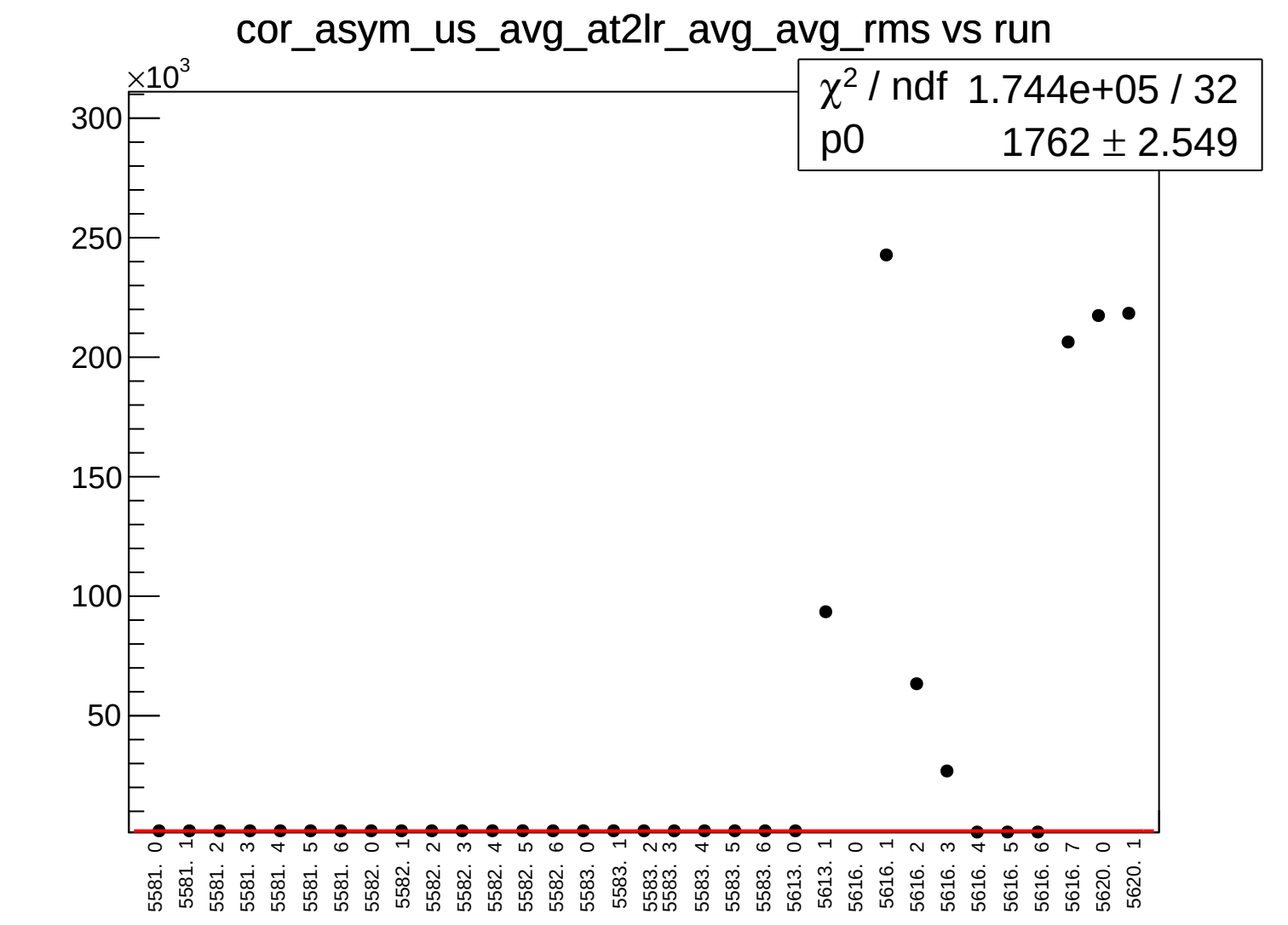

reg_asym_us_avg_at2lr_avg_avg_rms vs run
×10^3
χ^2 / ndf 2.378e+05 / 32
p0 1364 ± 2.119
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

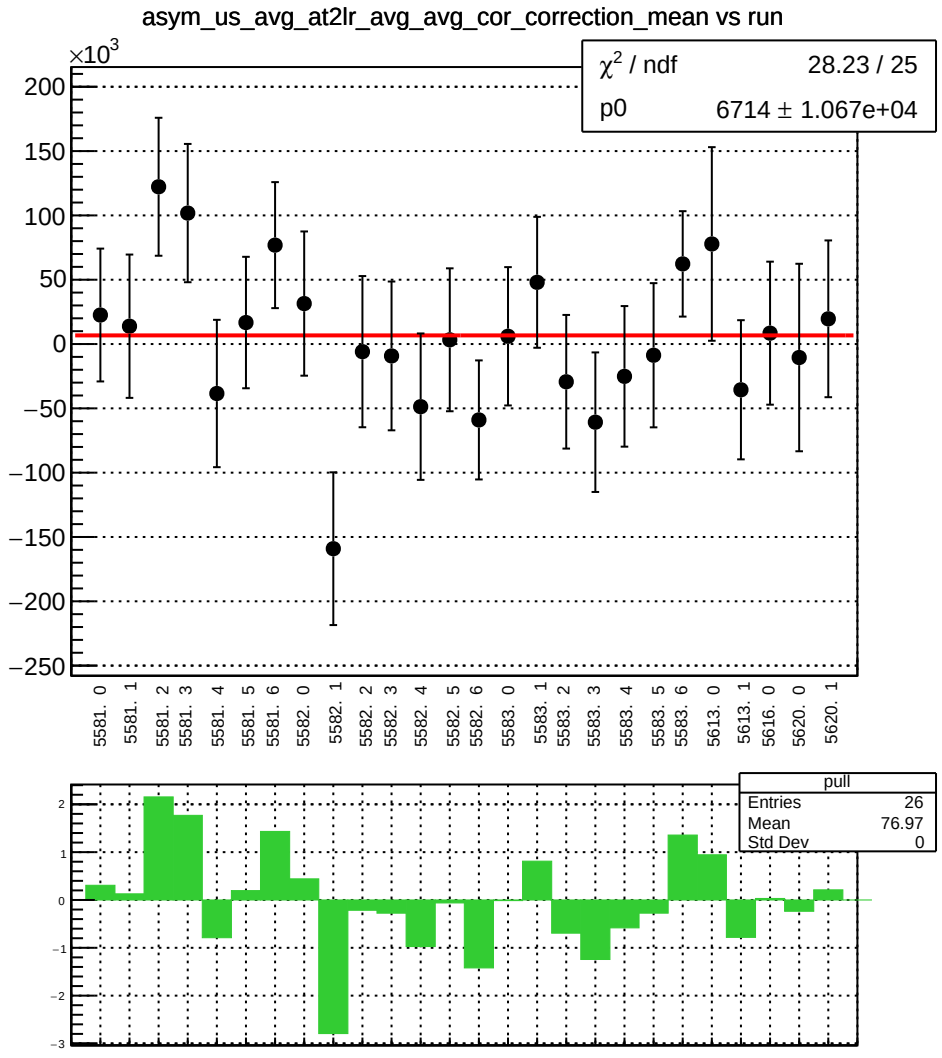

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 33.36 / 32
p0 −1002 ± 5000
200
150
100
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 8.227
Std Dev 14.58
2
1
0
−1
−2

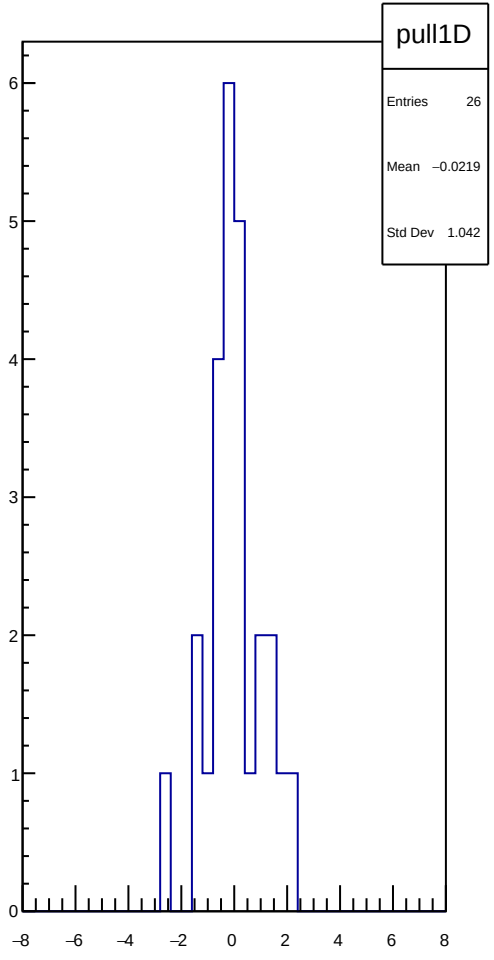

pull1D
Entries 33
Mean 0.1253
Std Dev 0.9976
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

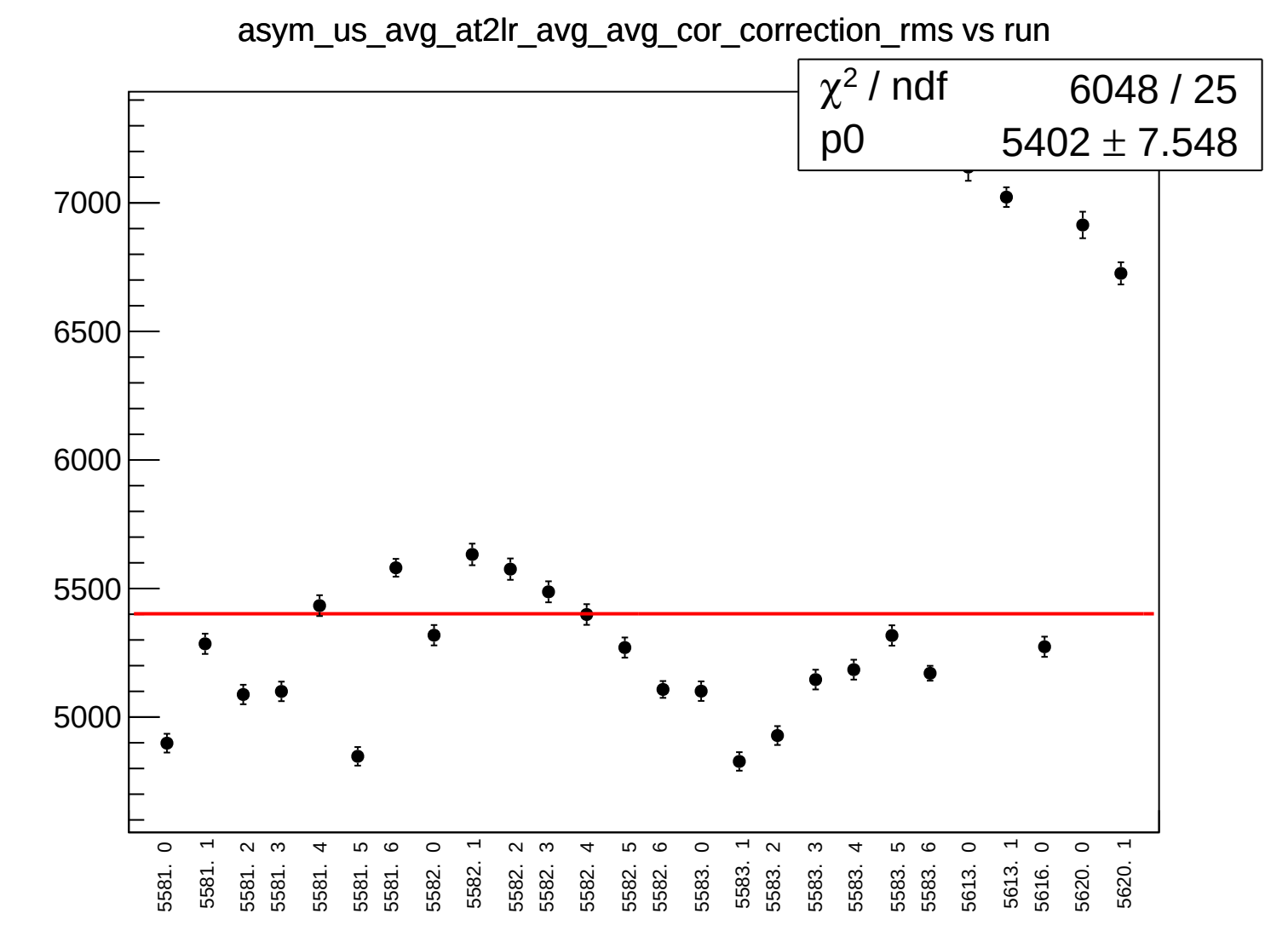

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 2.715e+05 / 32
p0 2181 ± 3.536
12000
10000
8000
6000
4000
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

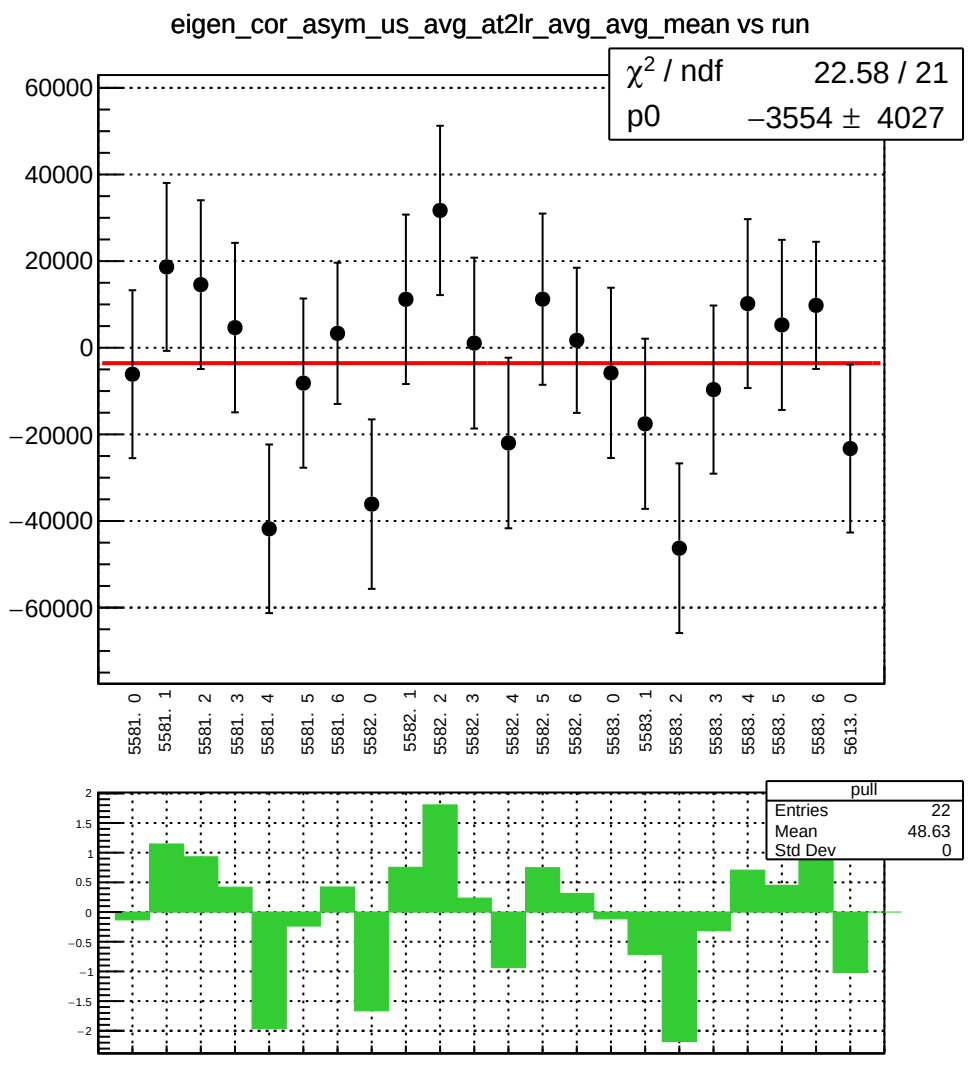

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 22.58 / 21
p0 −3554 ± 4027
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 48.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 22
Mean −0.01983
Std Dev 1.013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

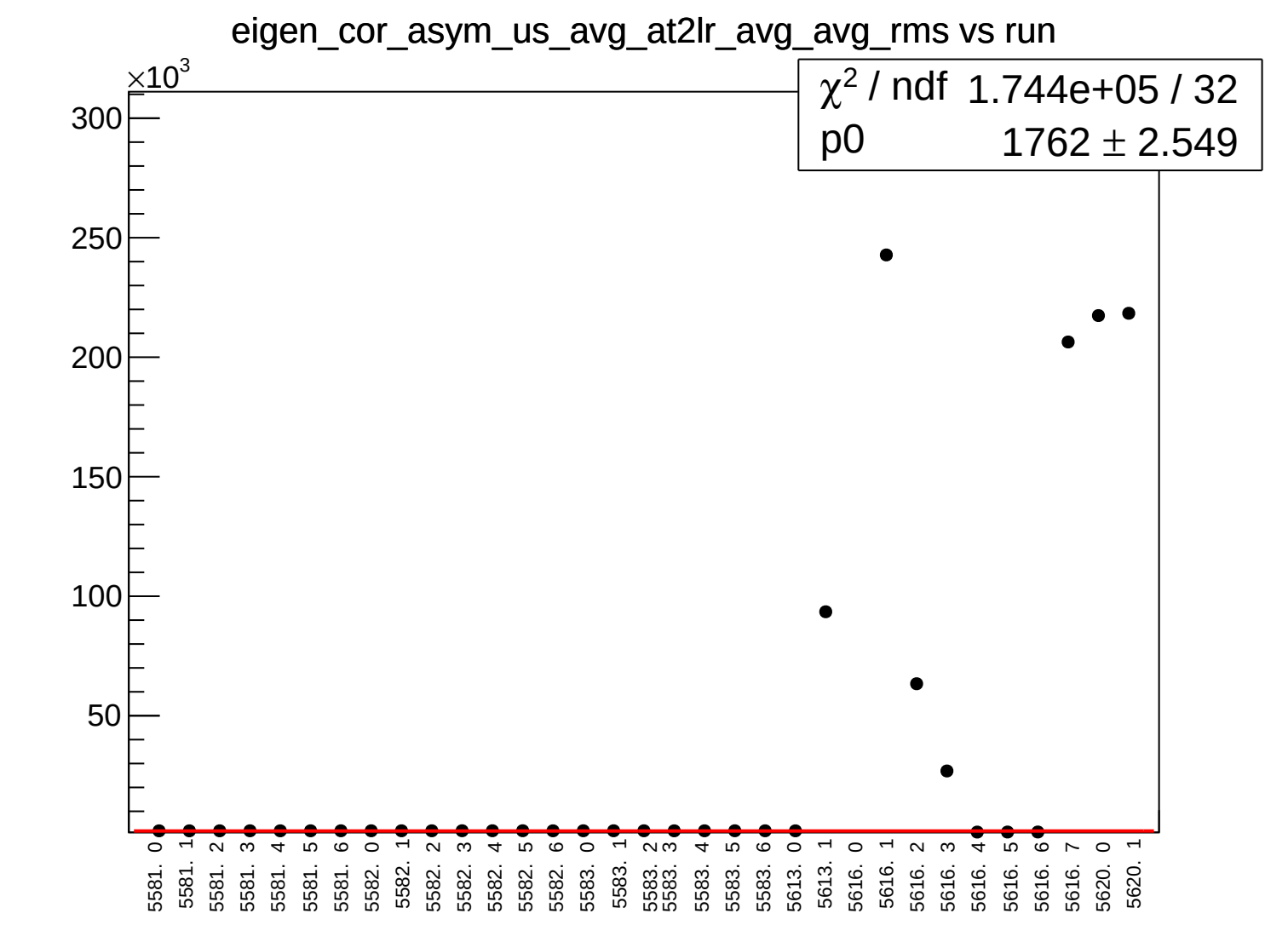

cor_asym_us_avg_at2lr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.744e+05 / 32
p0 1762 ± 2.549
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

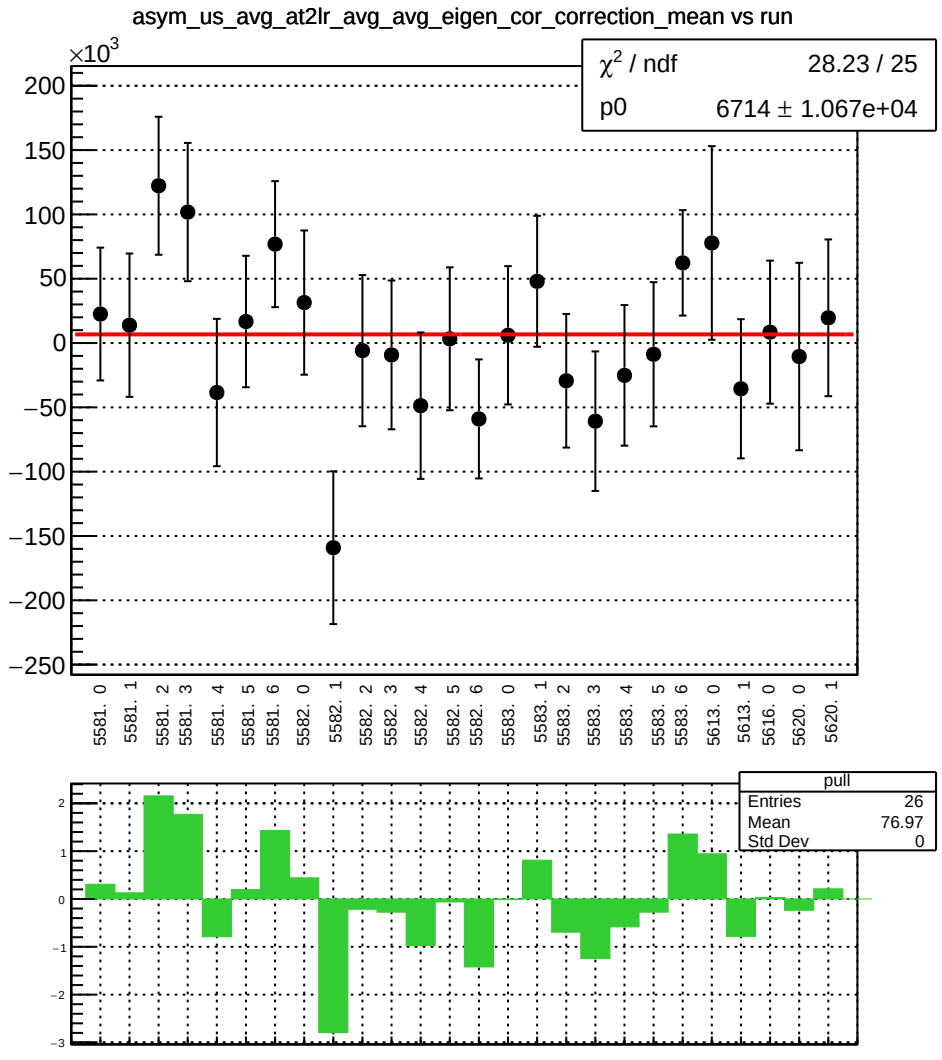

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 28.23 / 25
p0 6714 ± 1.067e+04
200
150
100
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 76.97
Std Dev 0
2
1
0
−1
−2
−3

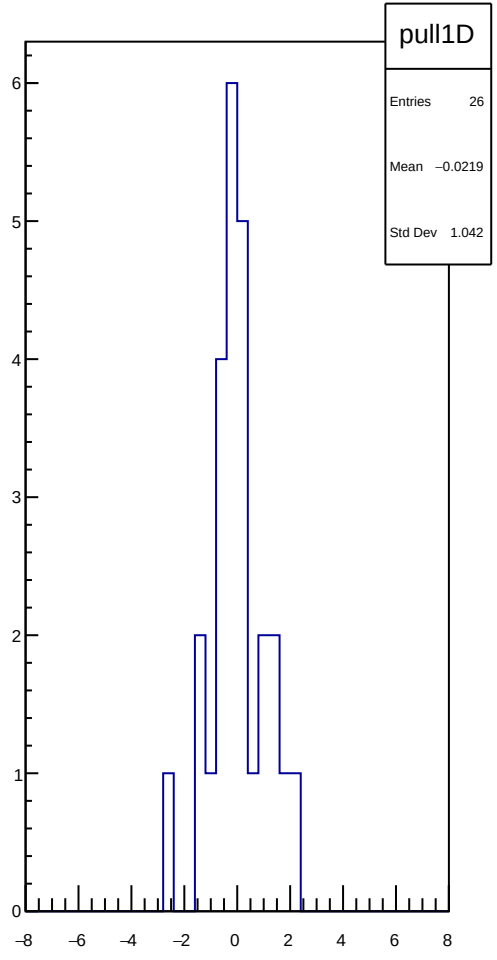

pull1D
Entries 26
Mean −0.0219
Std Dev 1.042
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

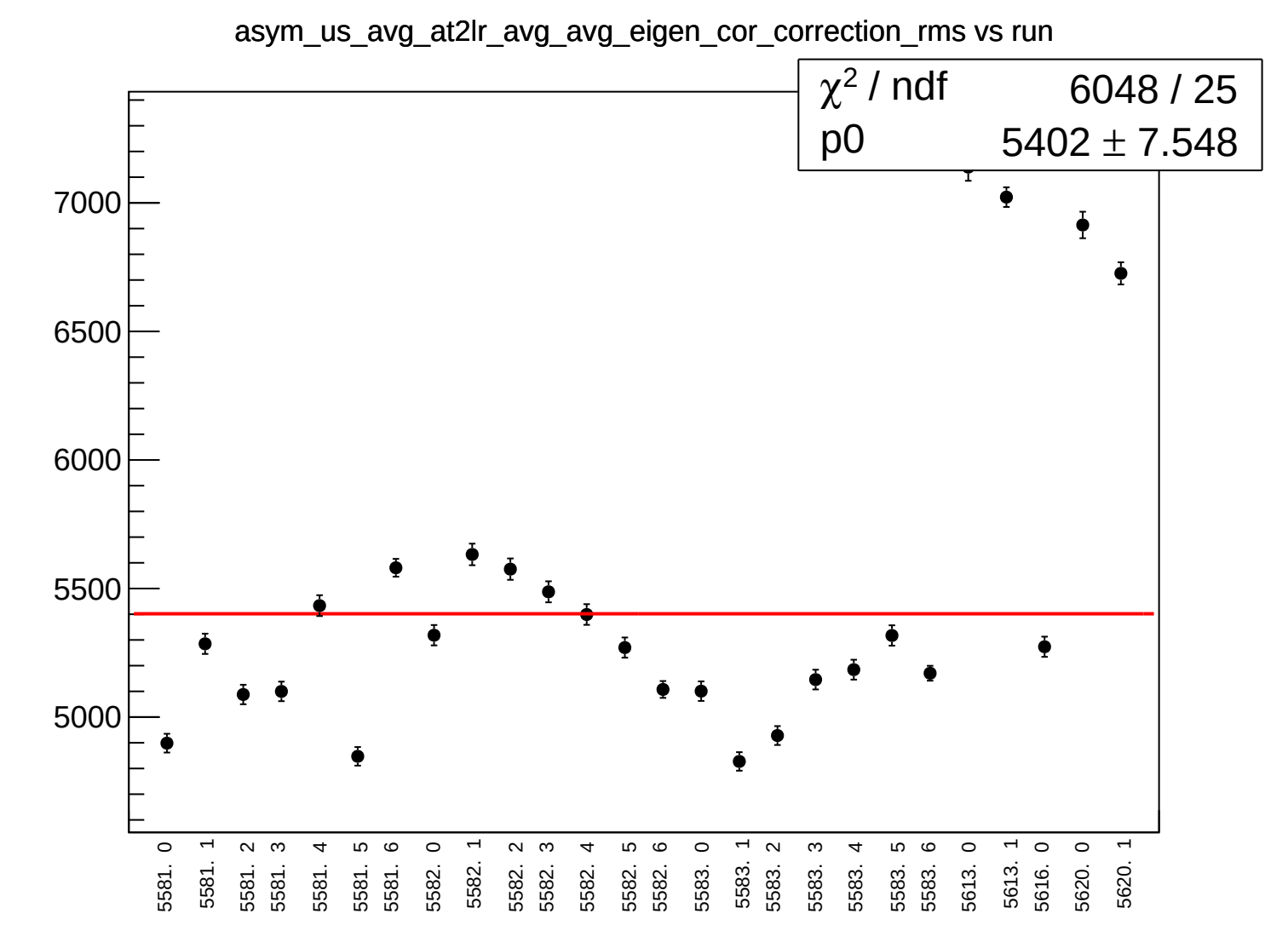

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 6048 / 25
p0 5402 ± 7.548
7000
6500
6000
5500
5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

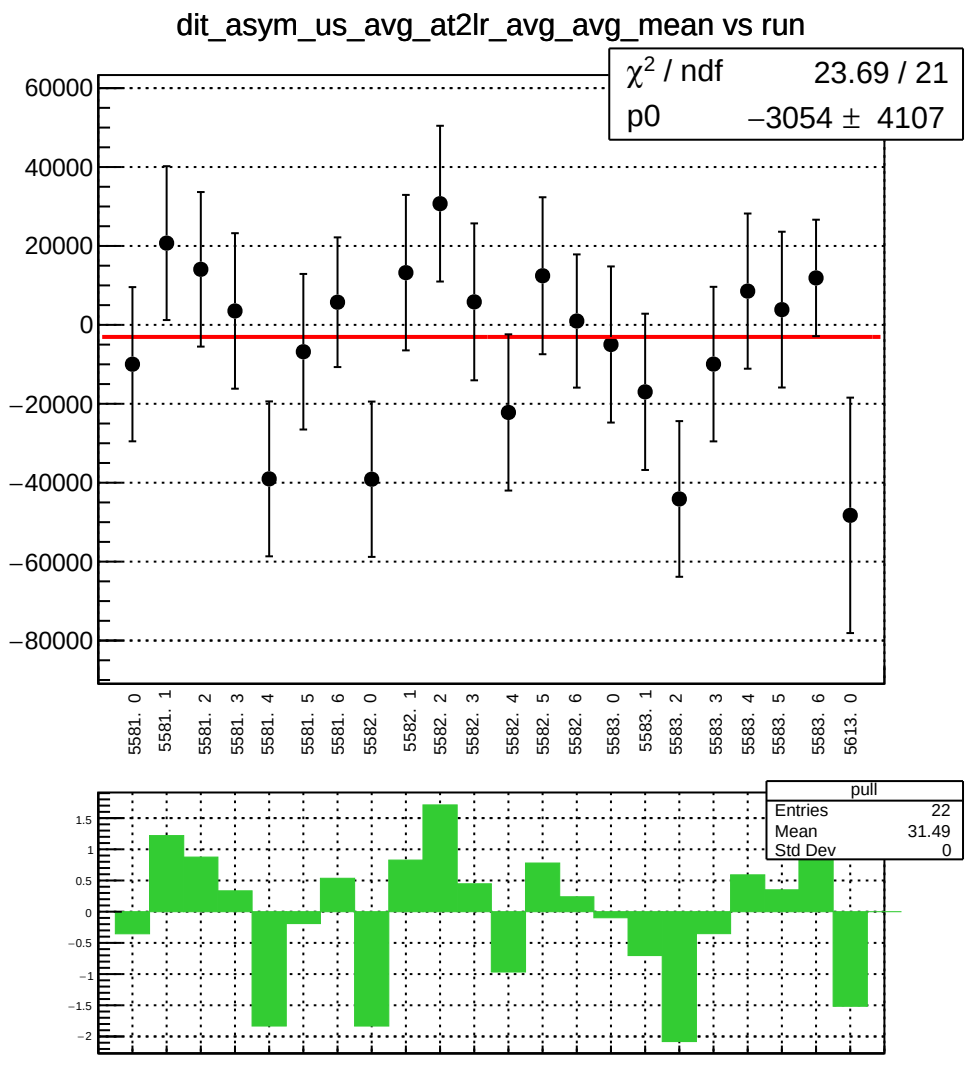

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 22.58 / 21
p0 −3554 ± 4027
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 48.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 22
Mean −0.01983
Std Dev 1.013
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

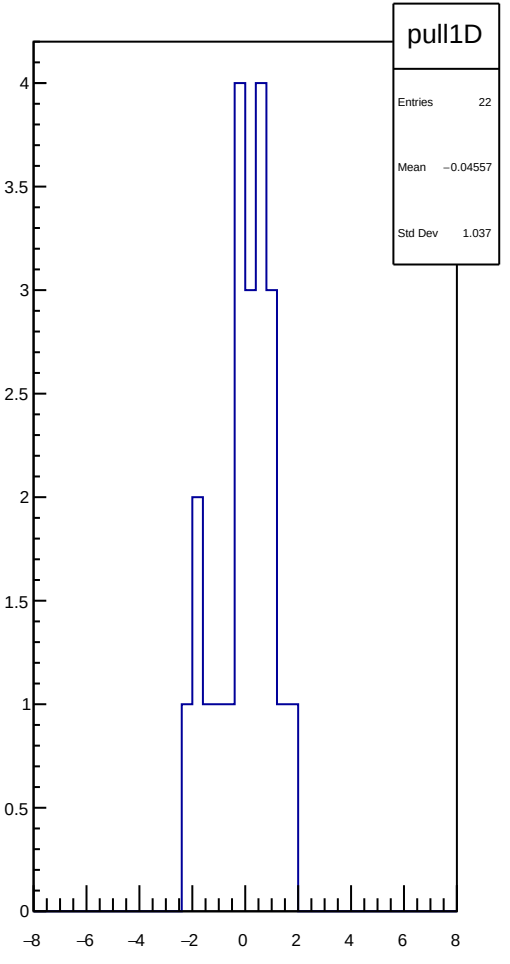

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
×10^3
χ² / ndf 1.744e+05 / 32
p0 1762 ± 2.549
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

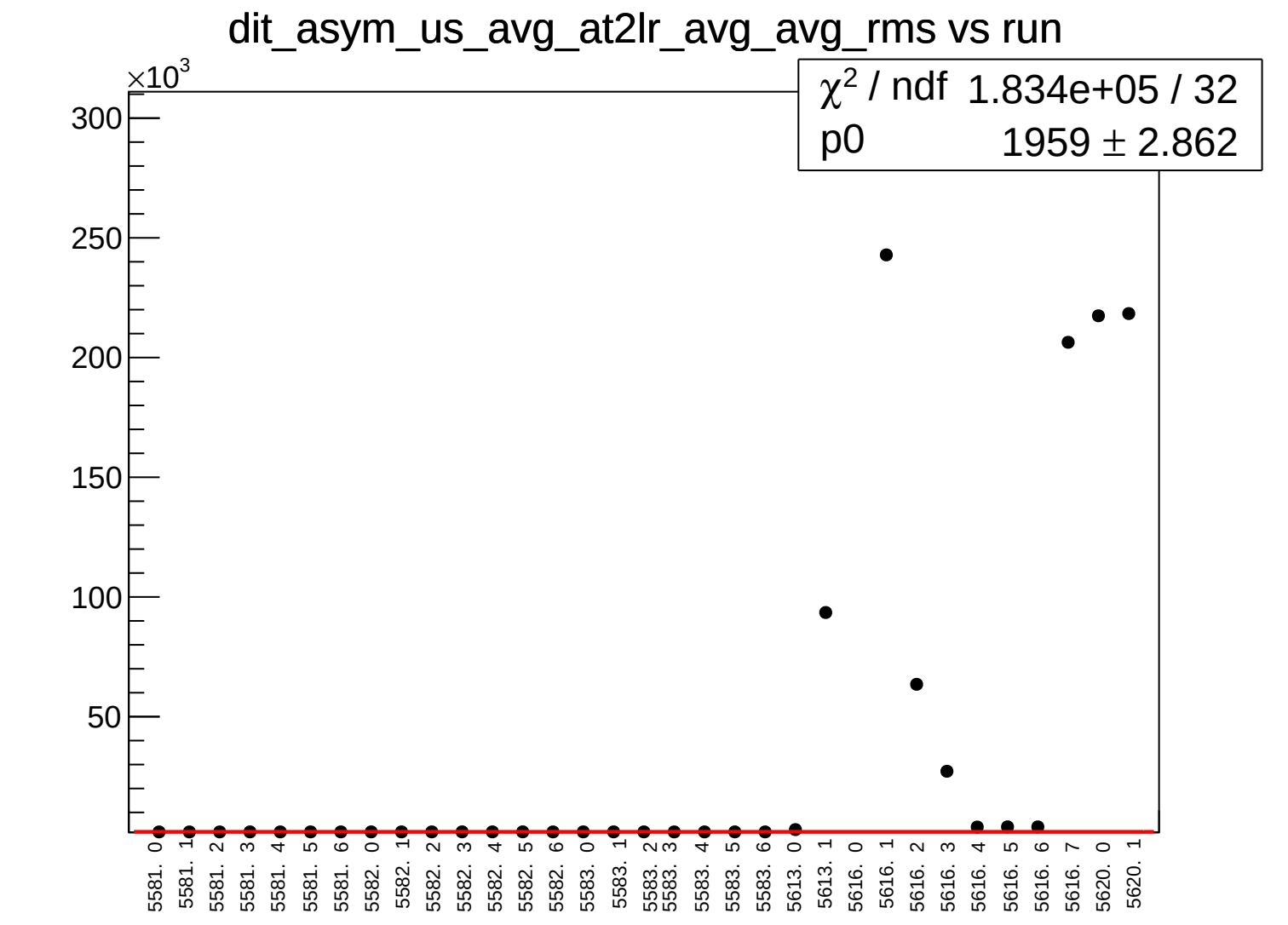

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 28.23 / 25
p0 6714 ± 1.067e+04
200
150
100
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 76.97
Std Dev 0
2
1
0
−1
−2
−3

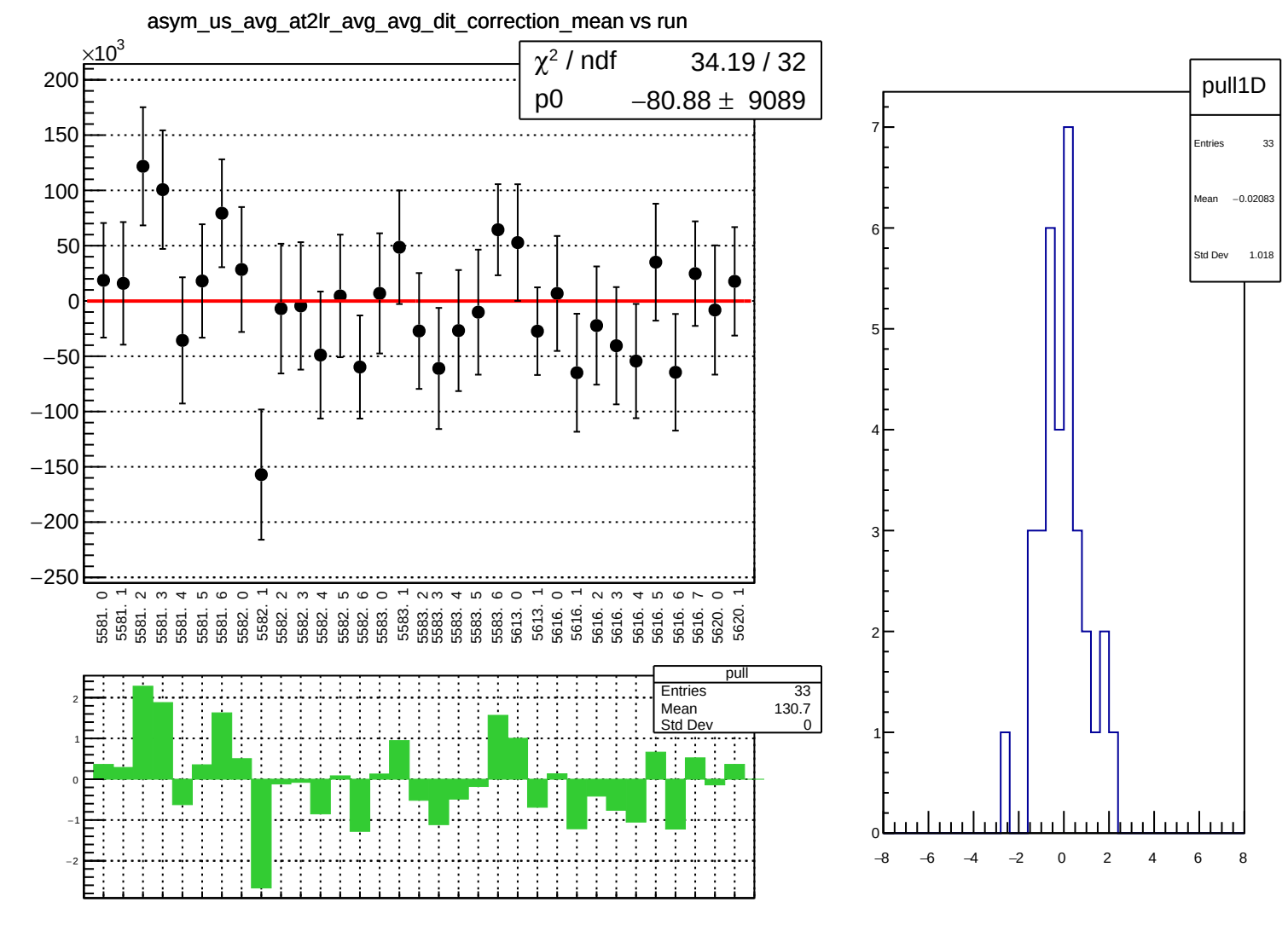

pull1D
Entries 26
Mean −0.0219
Std Dev 1.042
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

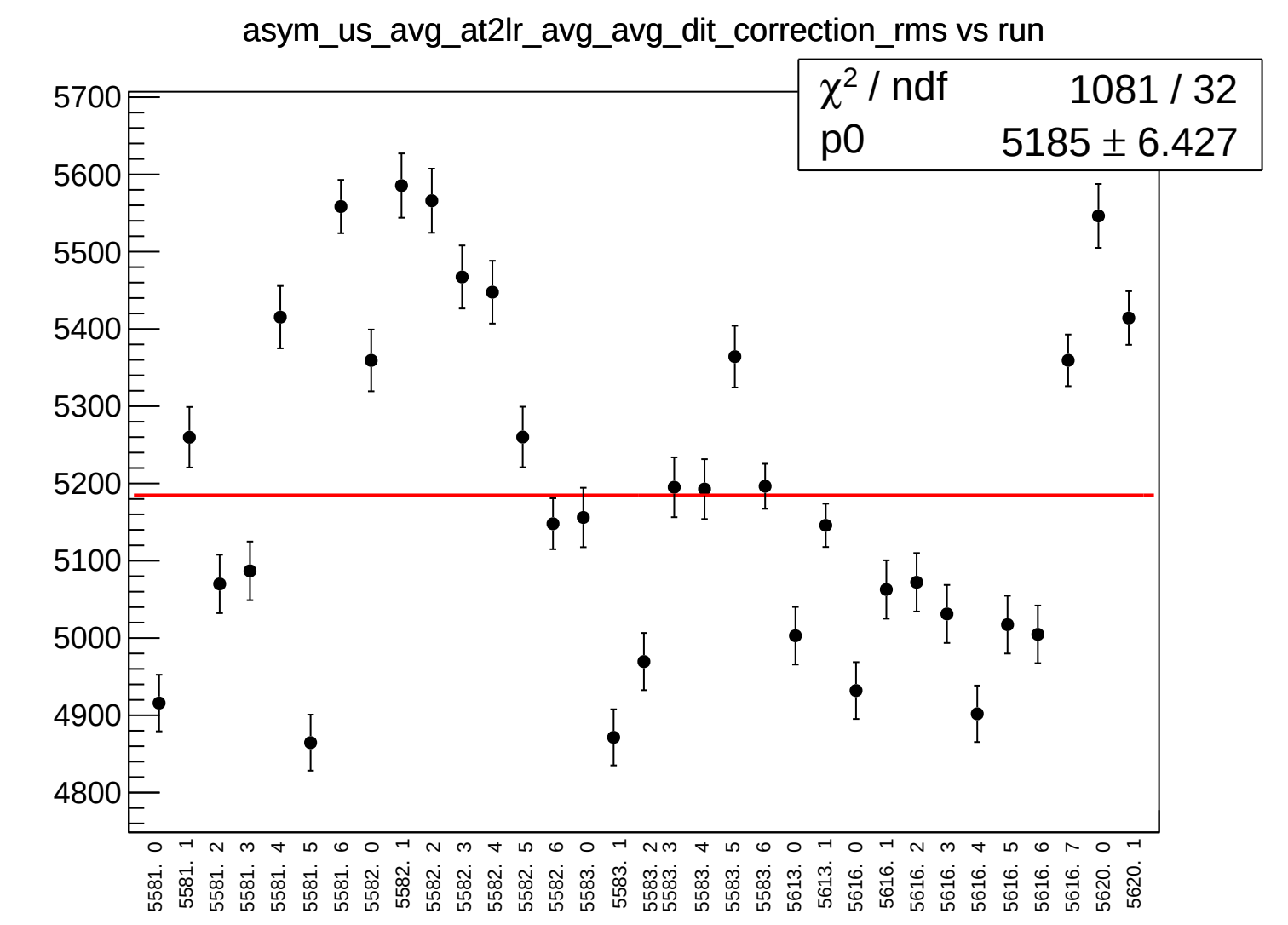

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6048 / 25
p0 5402 ± 7.548
7000
6500
6000
5500
5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

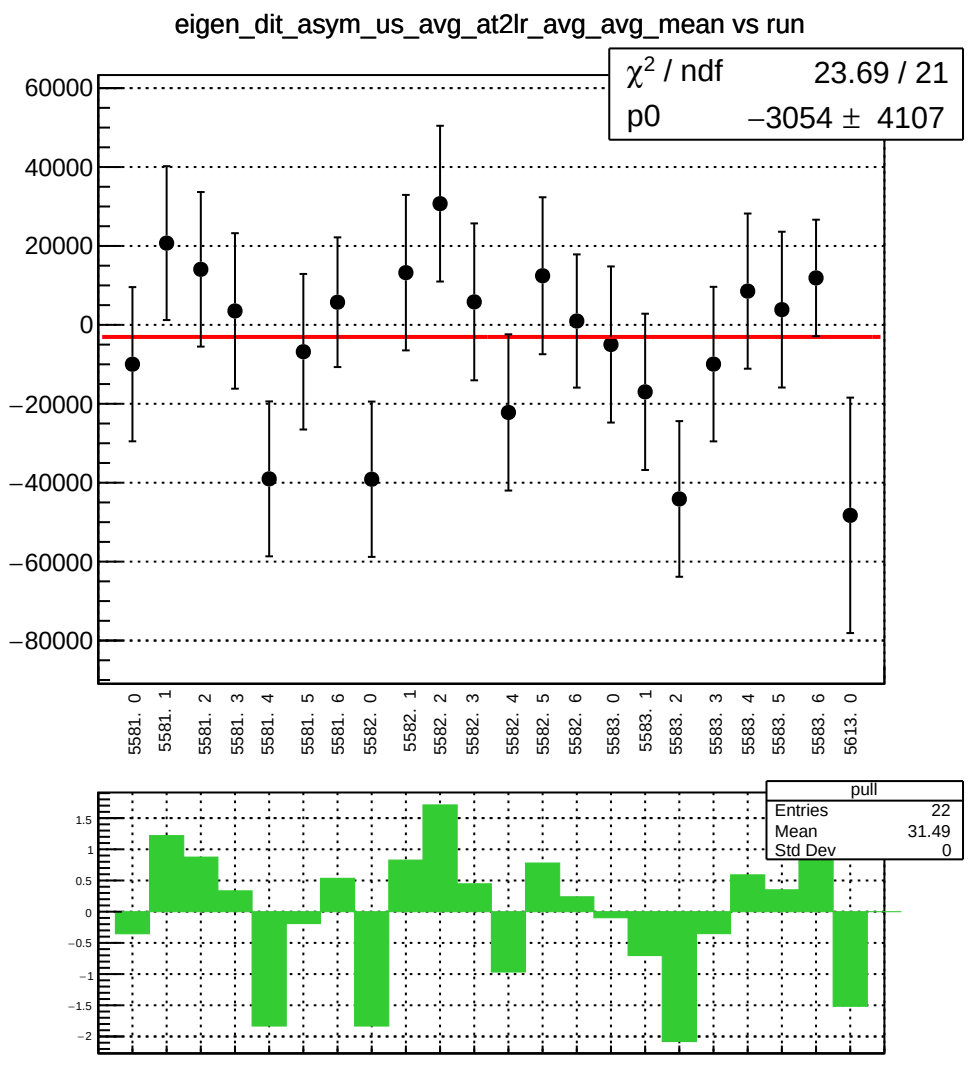

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 23.69 / 21
p0 −3054 ± 4107
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 31.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

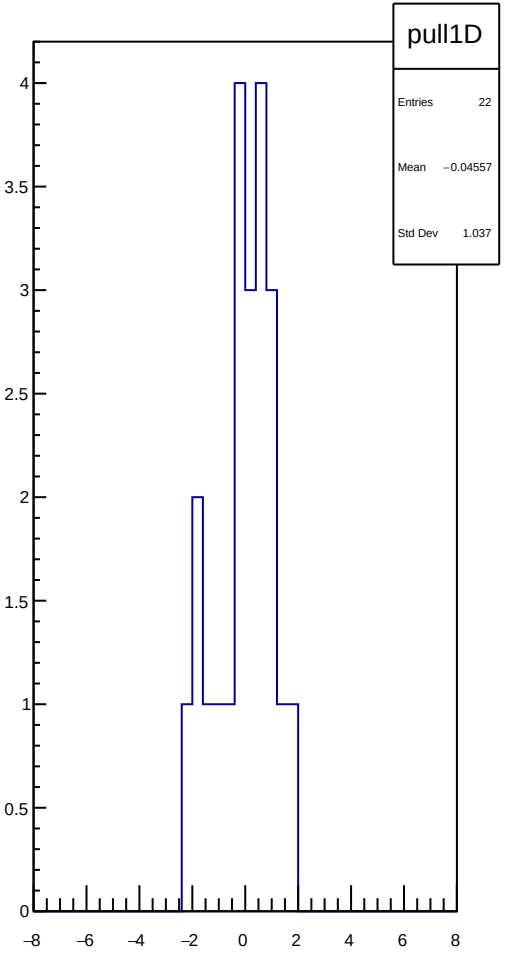

pull1D
Entries 22
Mean −0.04557
Std Dev 1.037
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

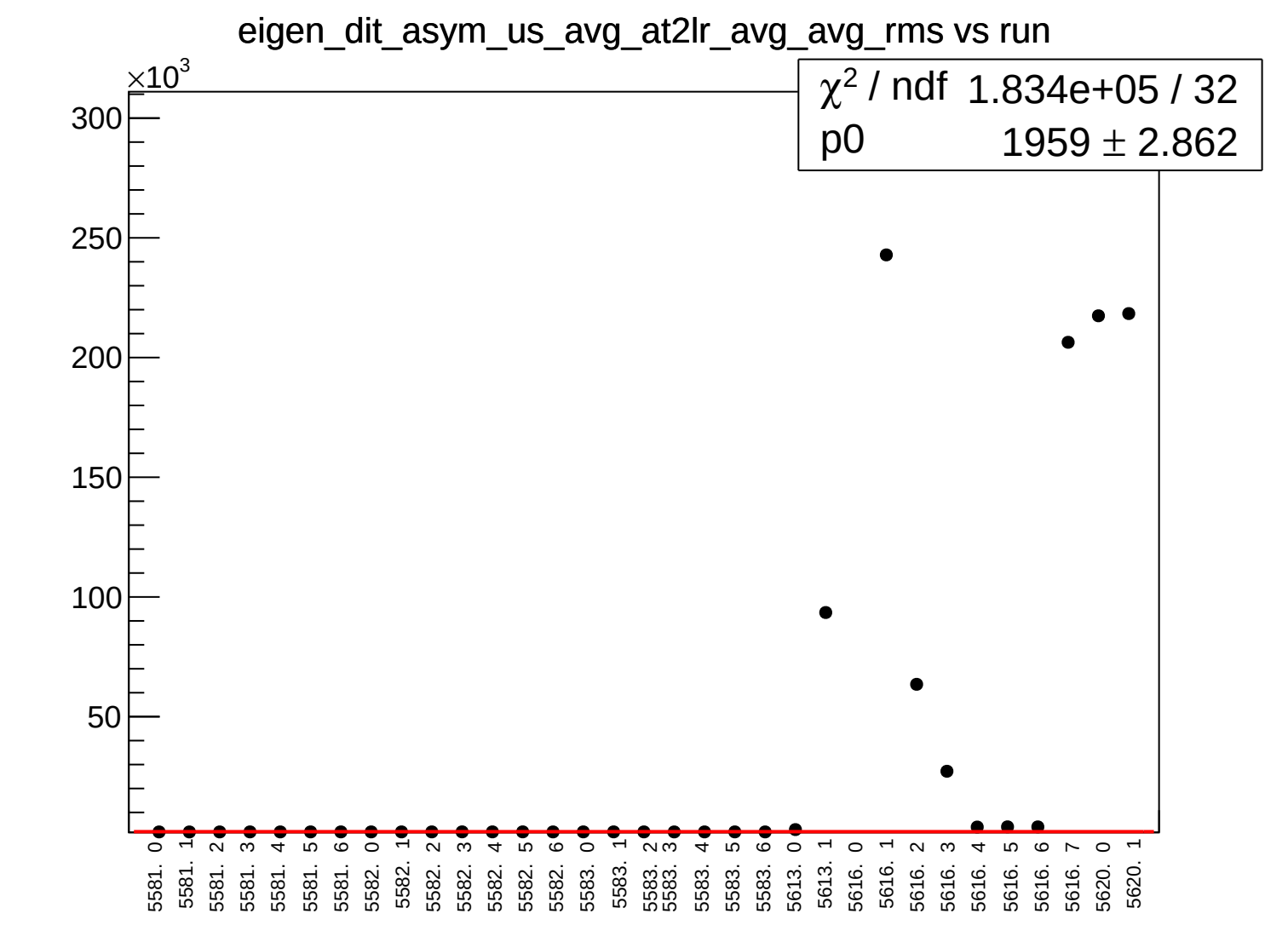

dit_asym_us_avg_at2lr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.834e+05 / 32
p0 1959 ± 2.862
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

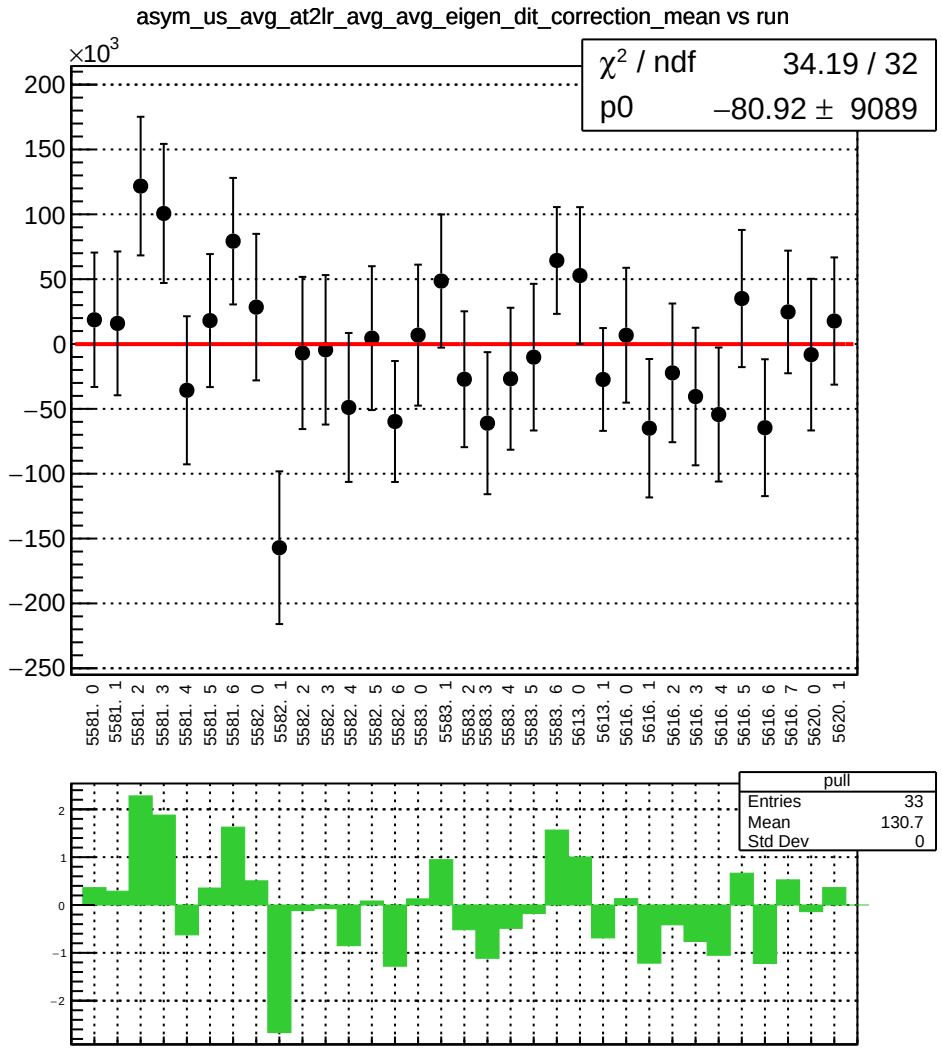

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 34.19 / 32
p0 −80.88 ± 9089
200
150
100
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 130.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.02083
Std Dev 1.018
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

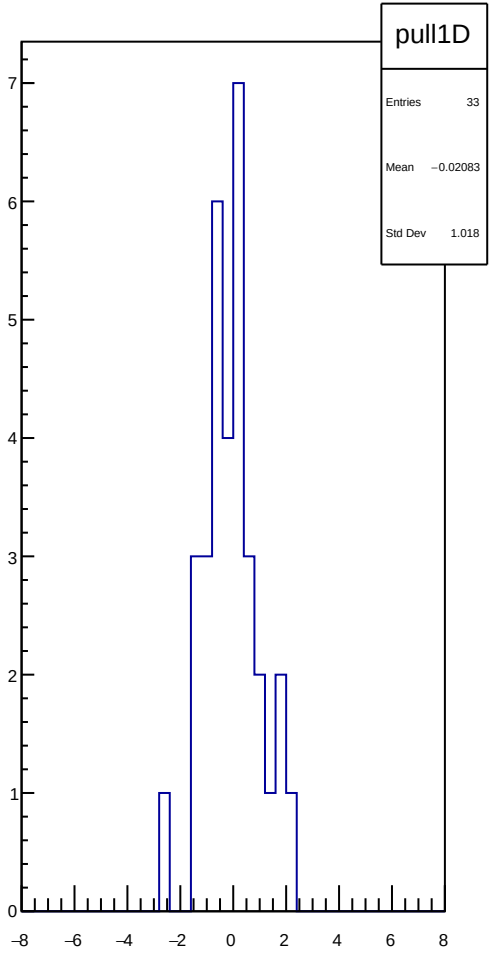

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1081 / 32
p0 5185 ± 6.427
5700
5600
5500
5400
5300
5200
5100
5000
4900
4800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

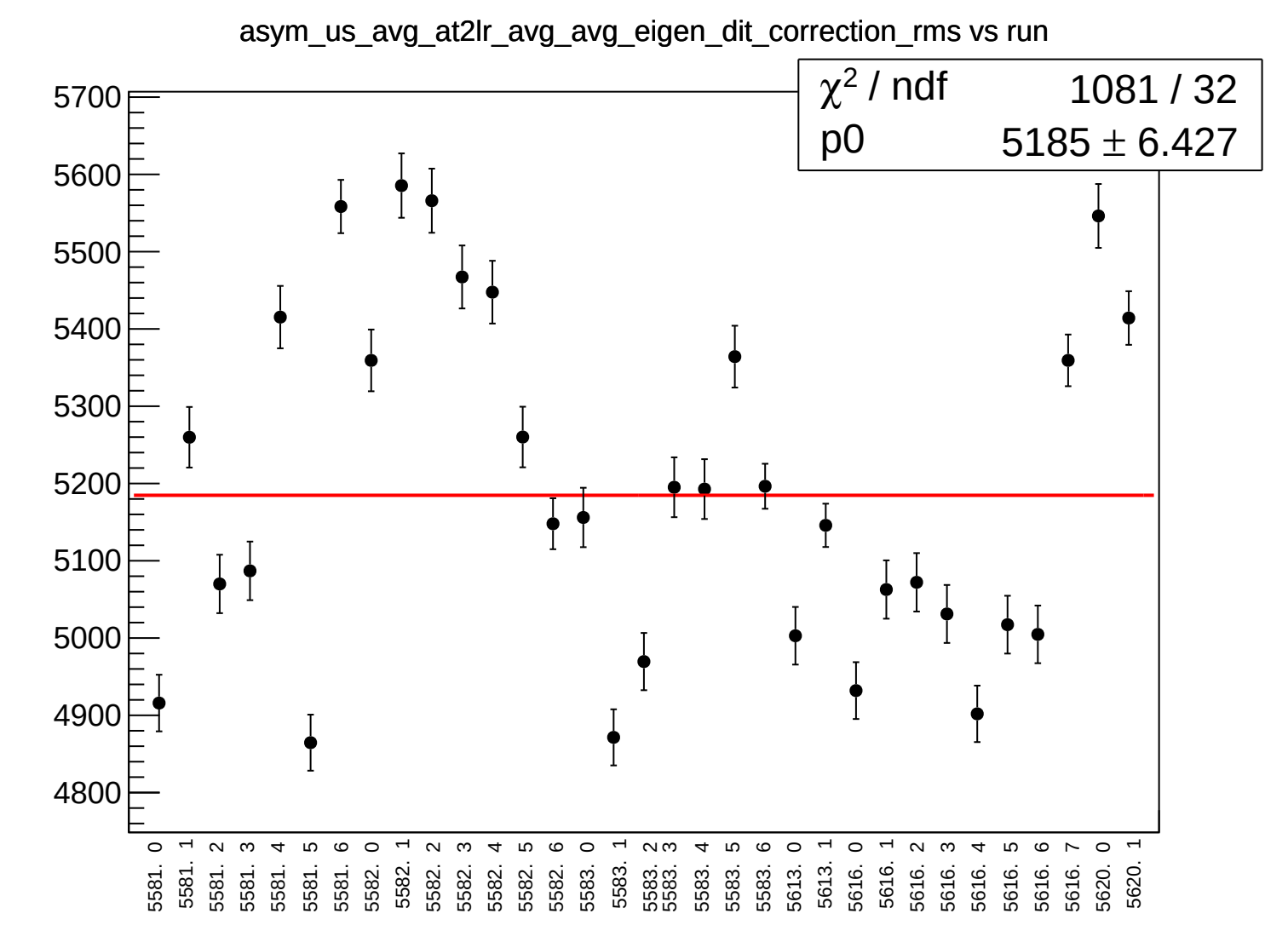

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 23.69 / 21
p0 −3054 ± 4107
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 31.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

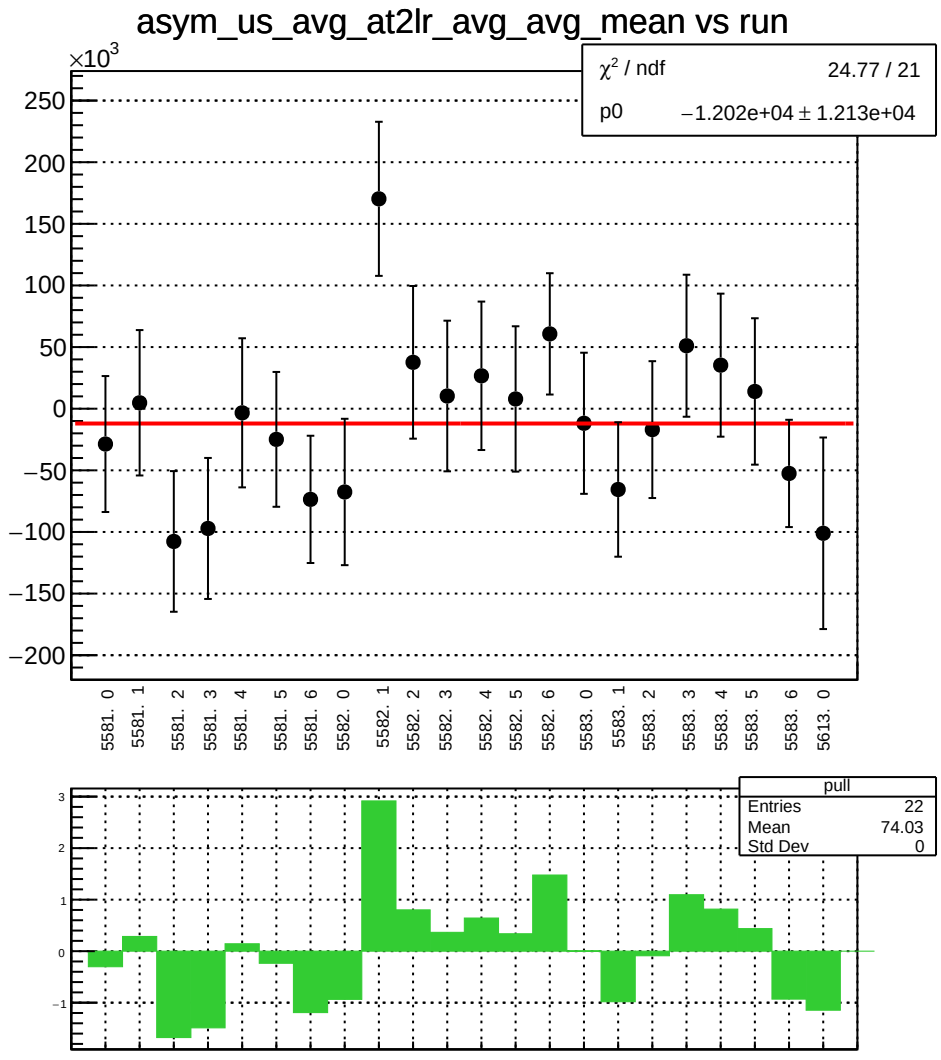

pull1D
Entries 22
Mean −0.04557
Std Dev 1.037
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

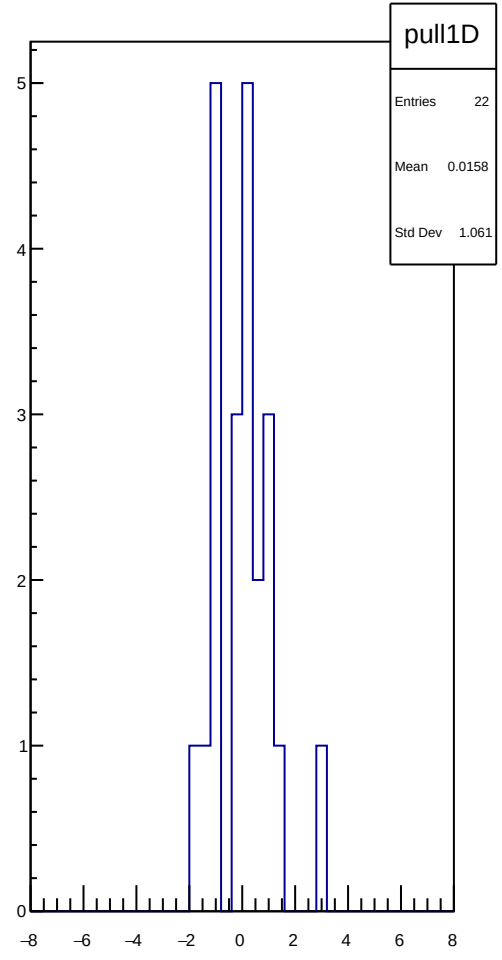

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.834e+05 / 32
p0 1959 ± 2.862
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

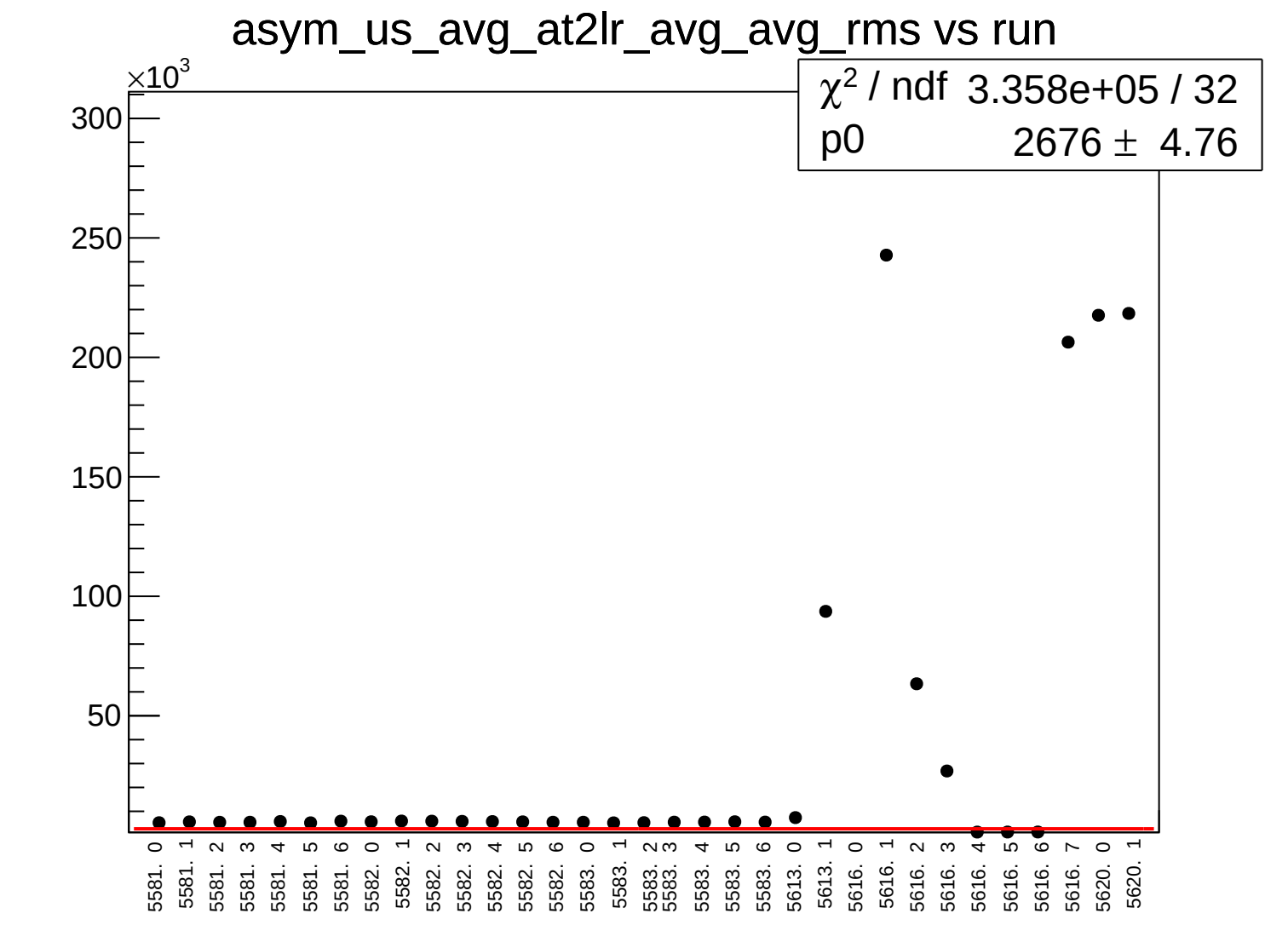

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 34.19 / 32
p0 −80.92 ± 9089
200
150
100
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 130.7
Std Dev 0
2
1
0
−1
−2

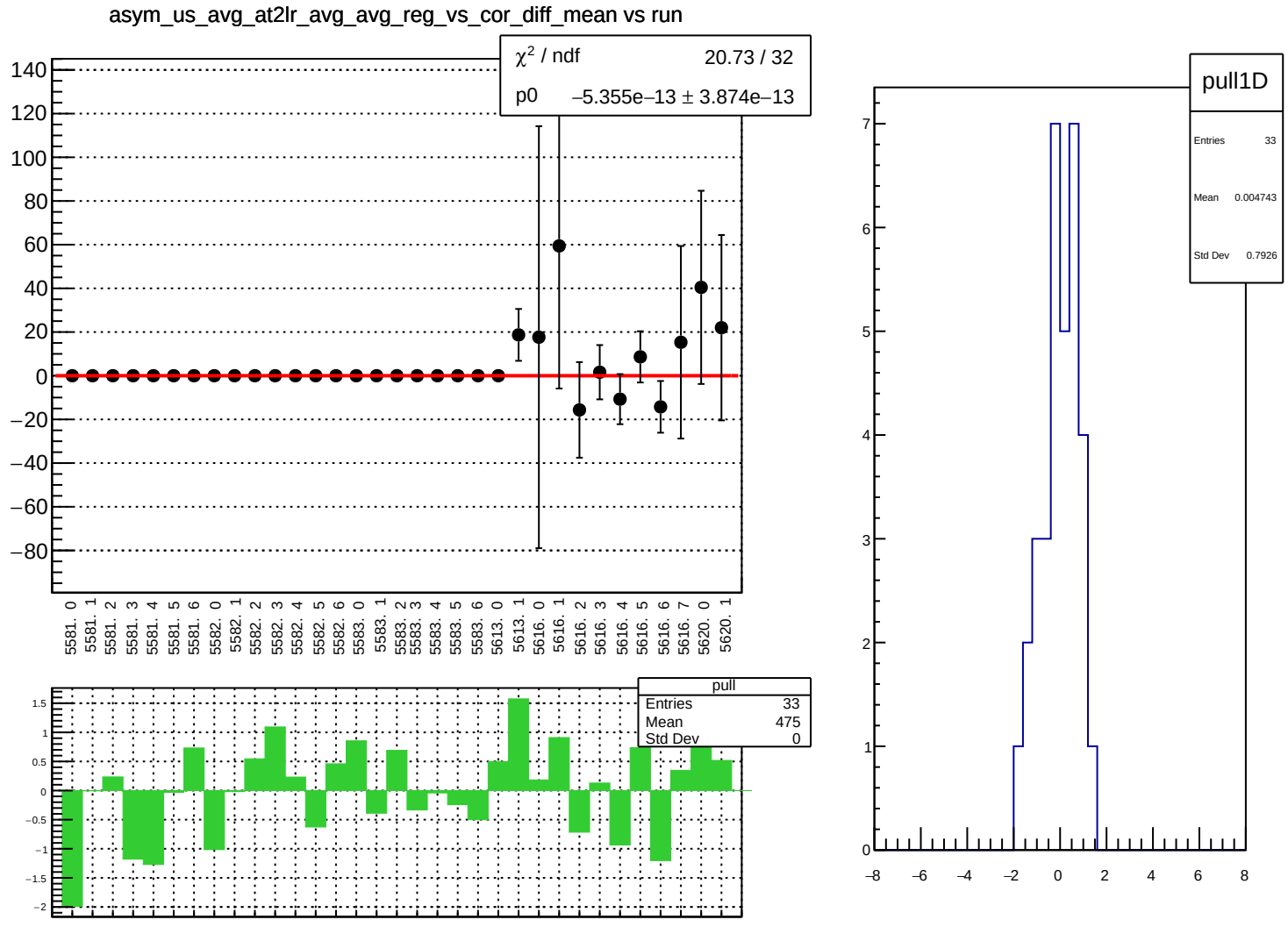

pull1D
Entries 33
Mean −0.02083
Std Dev 1.018
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

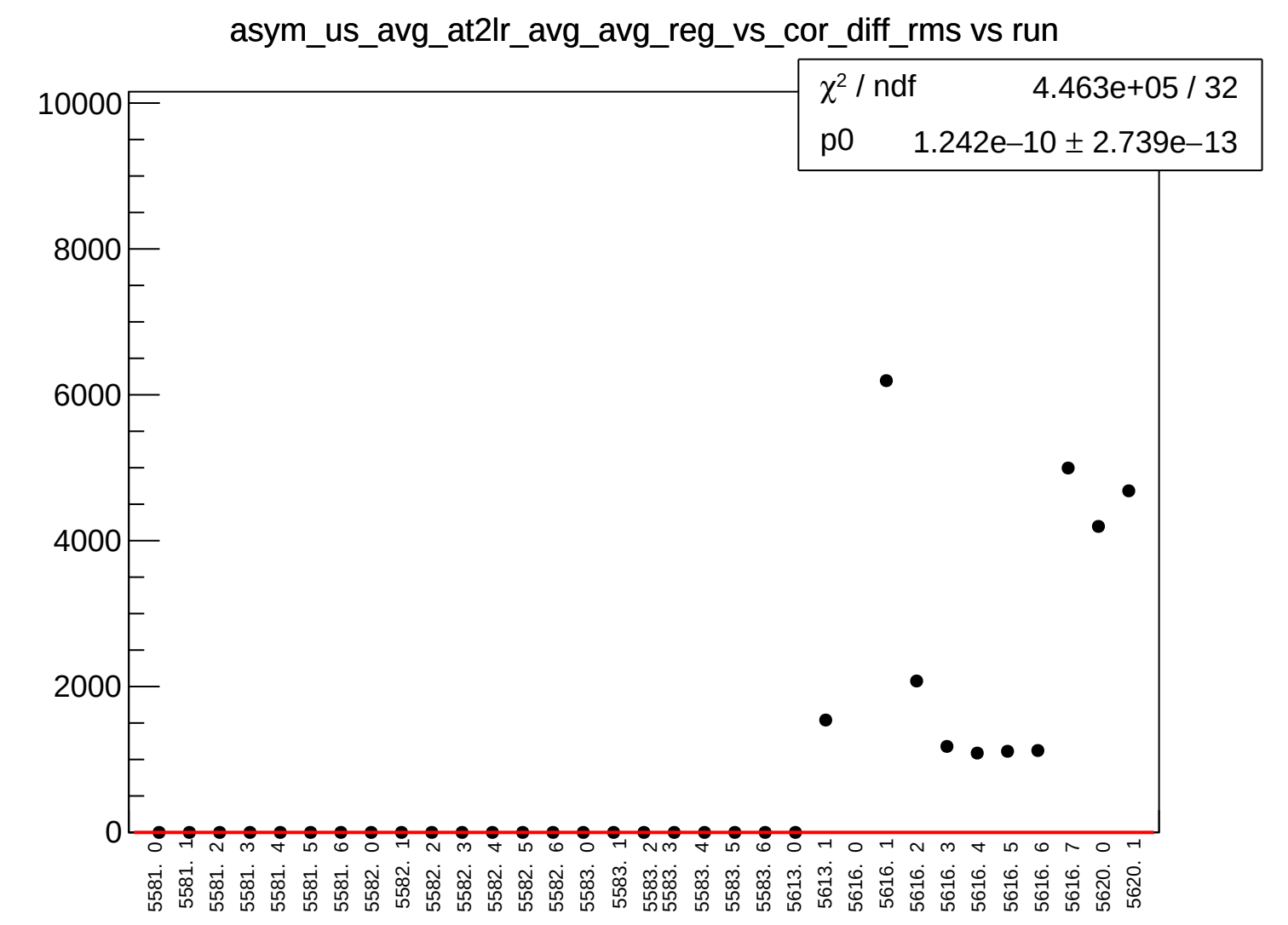

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1081 / 32
p0 5185 ± 6.427
5700
5600
5500
5400
5300
5200
5100
5000
4900
4800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

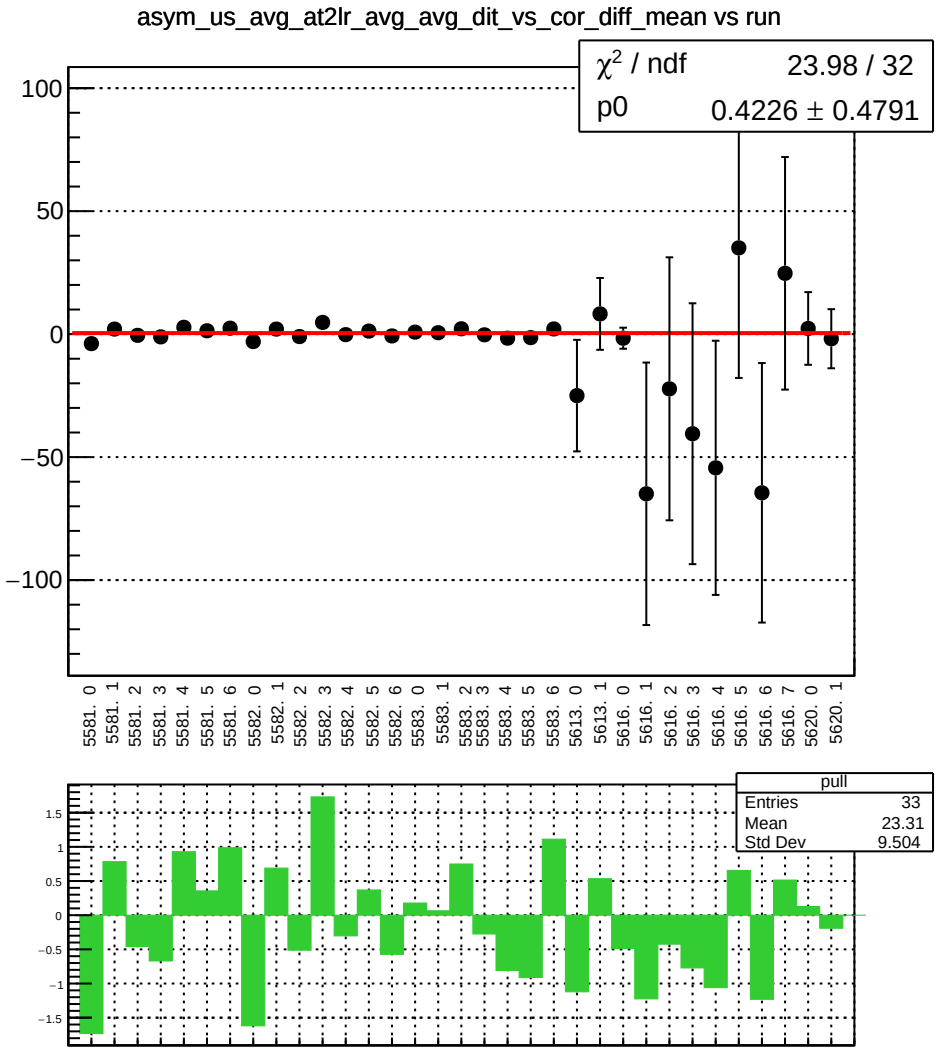

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 24.77 / 21
p0 −1.202e+04 ± 1.213e+04
250
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 74.03
Std Dev 0
3
2
1
0
−1

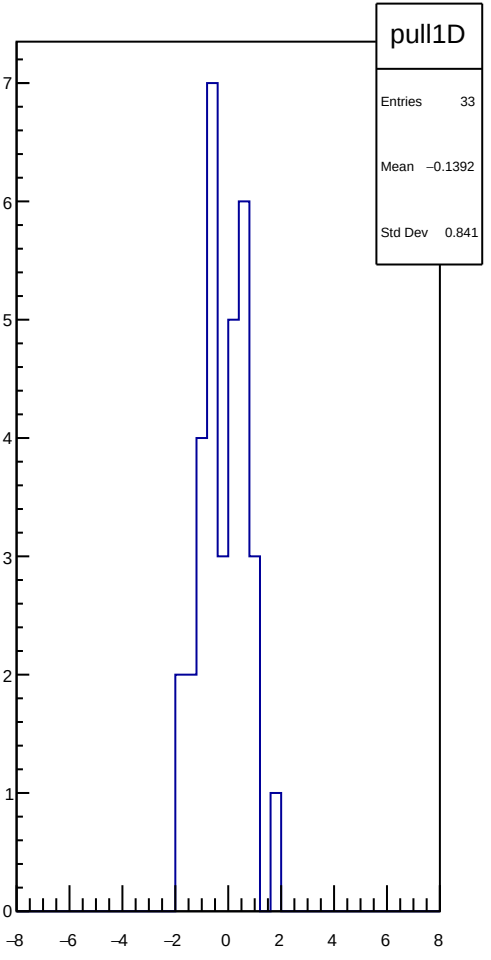

pull1D
Entries 22
Mean 0.0158
Std Dev 1.061
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

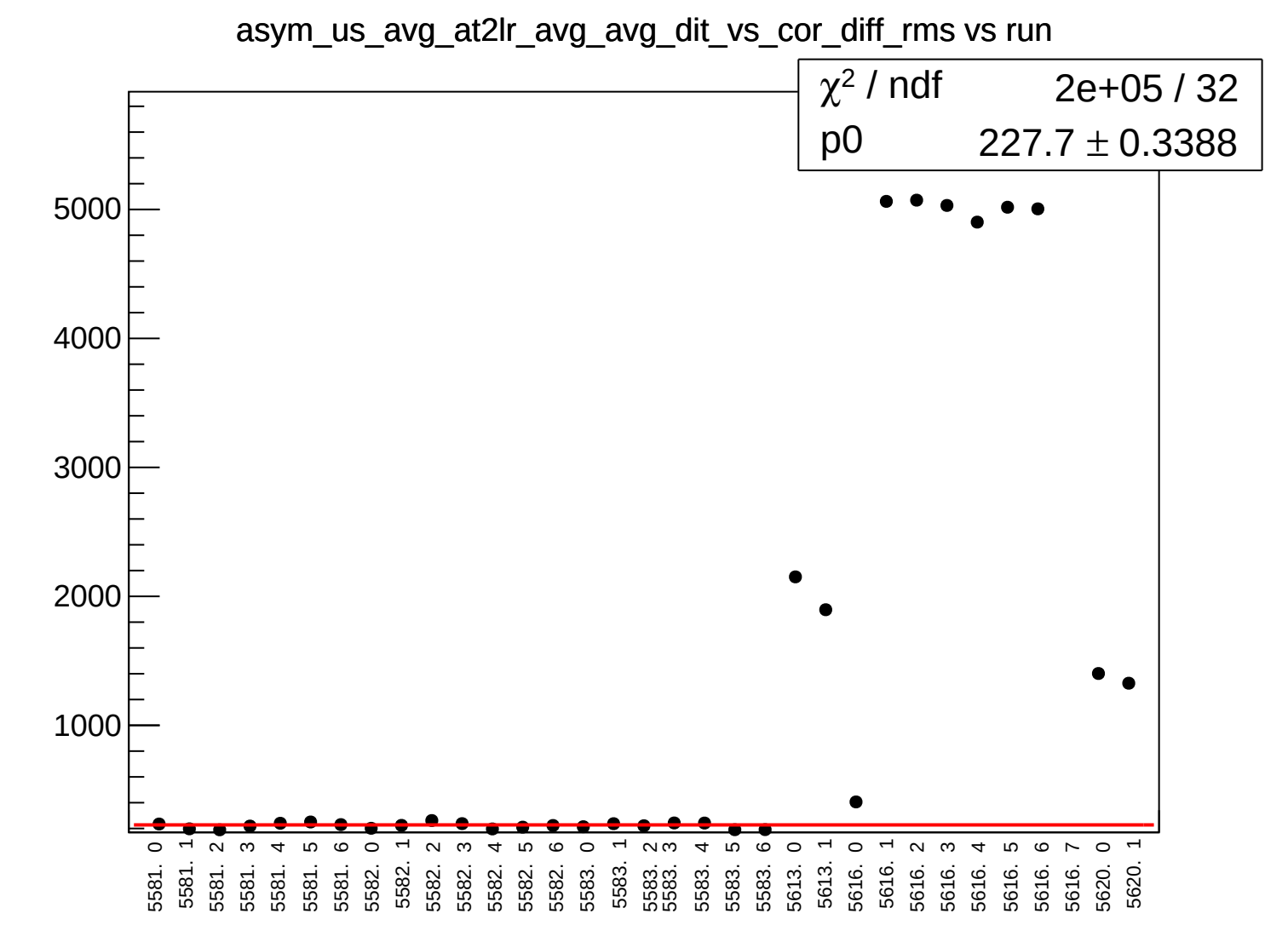

asym_us_avg_at2lr_avg_avg_rms vs run
×10^3
χ^2 / ndf 3.358e+05 / 32
p0 2676 ± 4.76
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

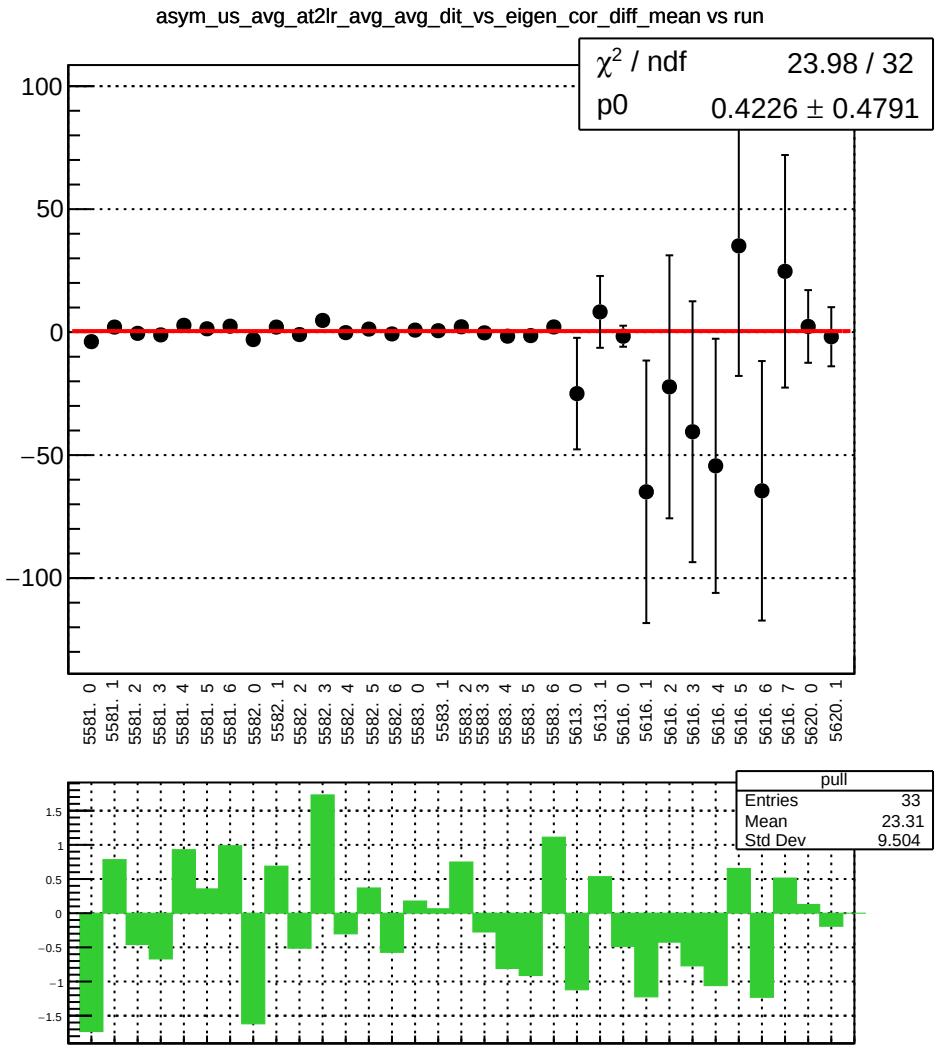

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 20.73 / 32
p0 −5.355e−13 ± 3.874e−13
140
120
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 475
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.004743
Std Dev 0.7926
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

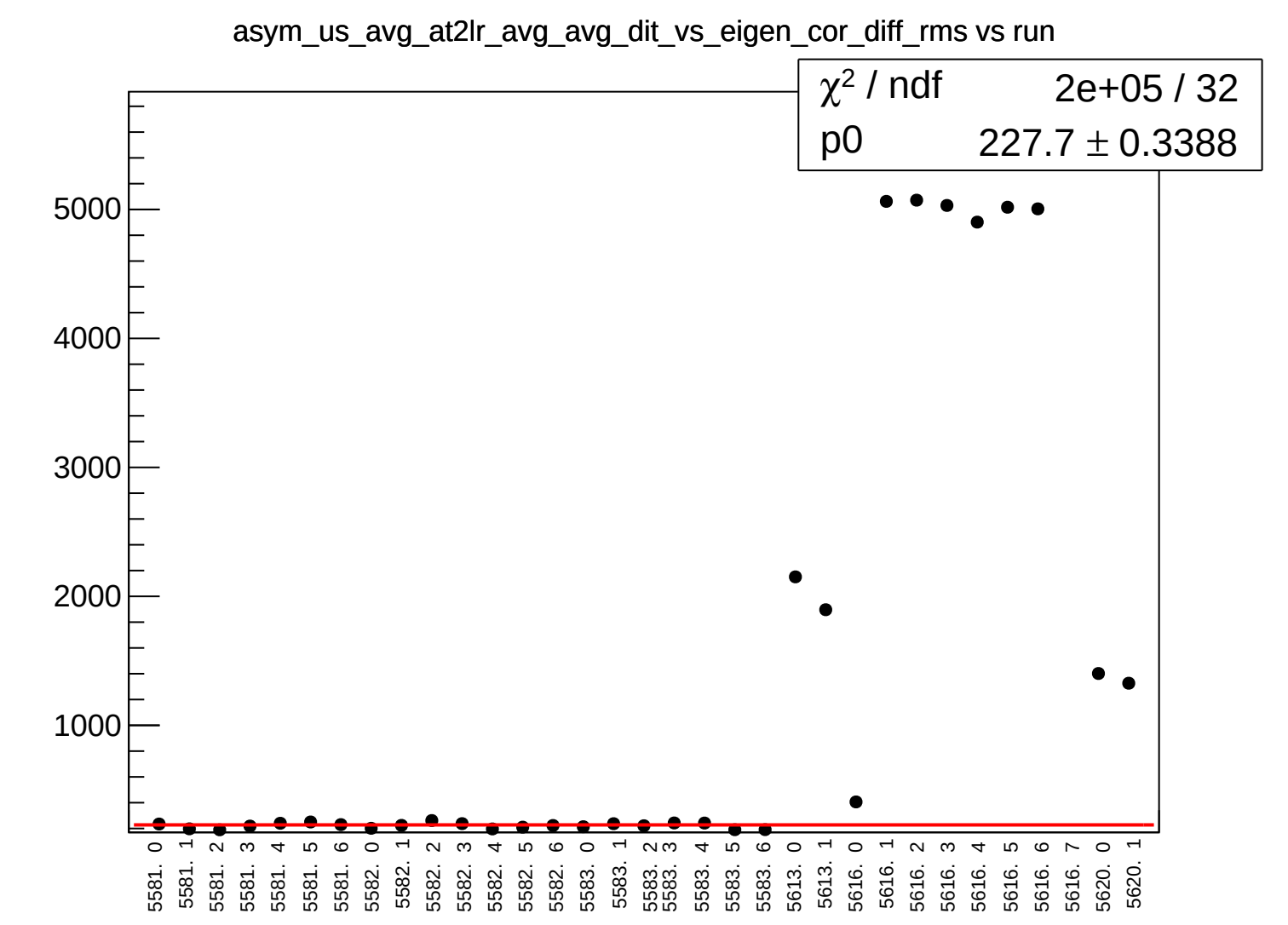

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.463e+05 / 32
p0 1.242e−10 ± 2.739e−13
10000
8000
6000
4000
2000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

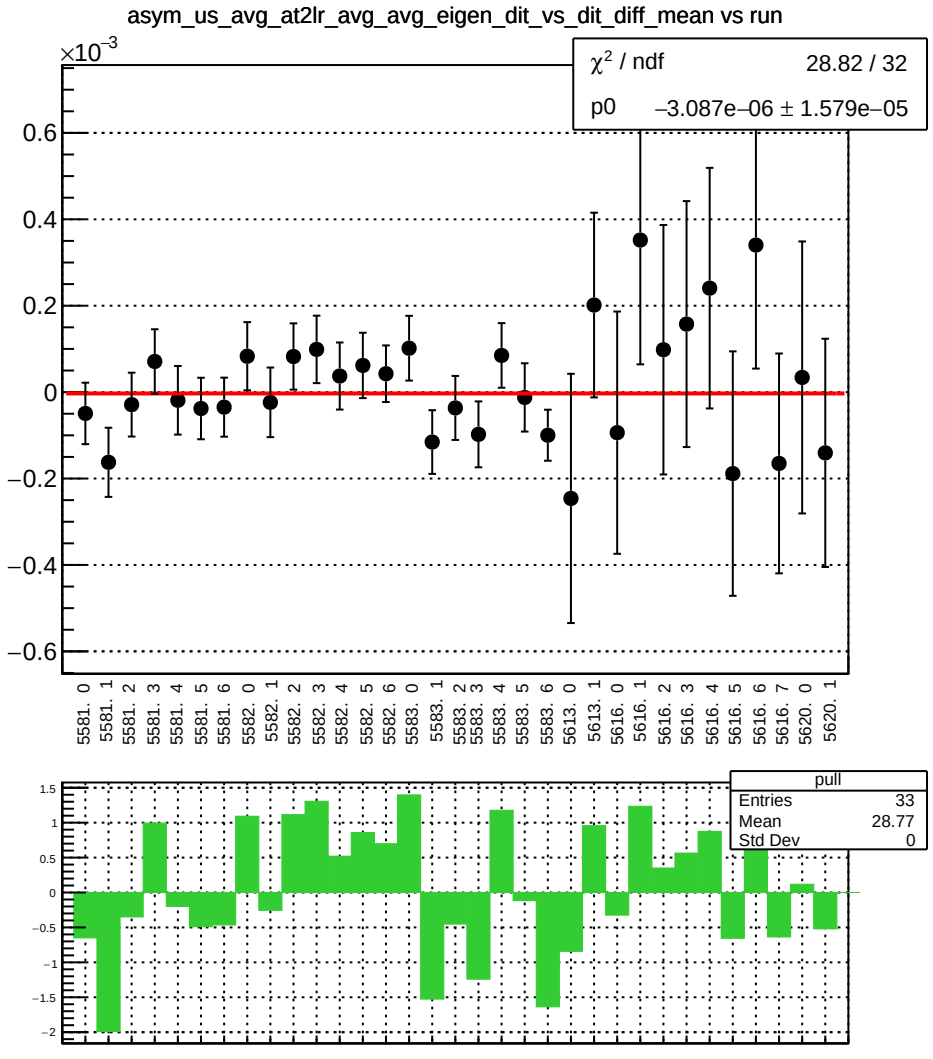

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 23.98 / 32
p0 0.4226 ± 0.4791
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.31
Std Dev 9.504
1.5
1
0.5
0
−0.5
−1
−1.5

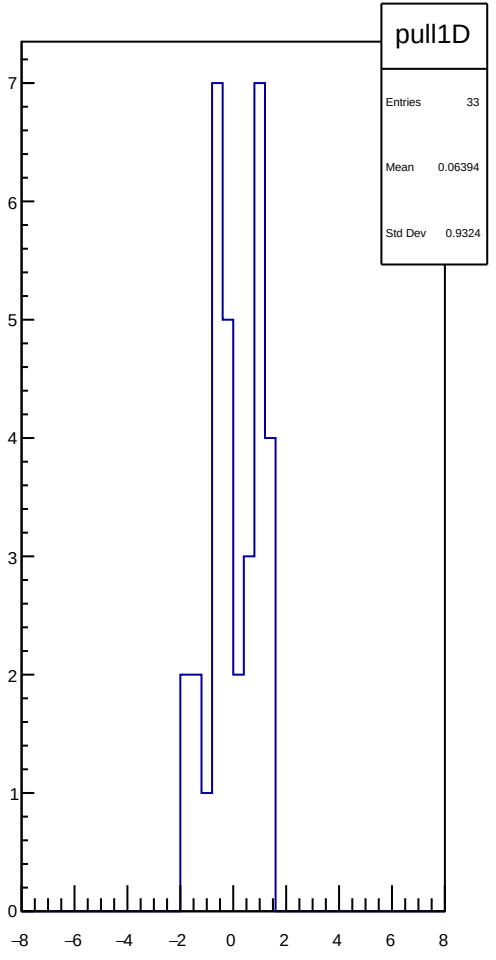

pull1D
Entries 33
Mean −0.1392
Std Dev 0.841
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

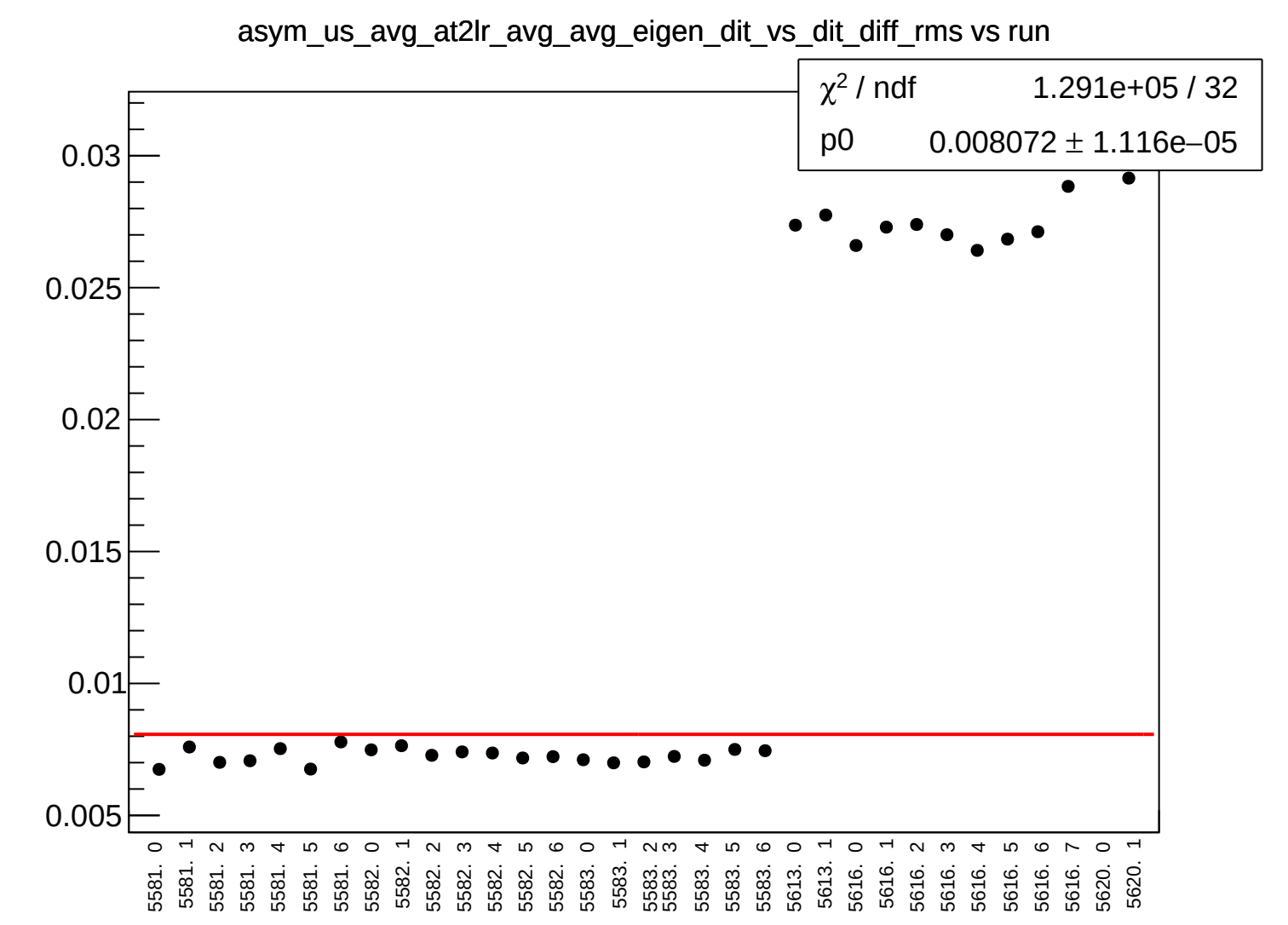

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2e+05 / 32
p0 227.7 ± 0.3388
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

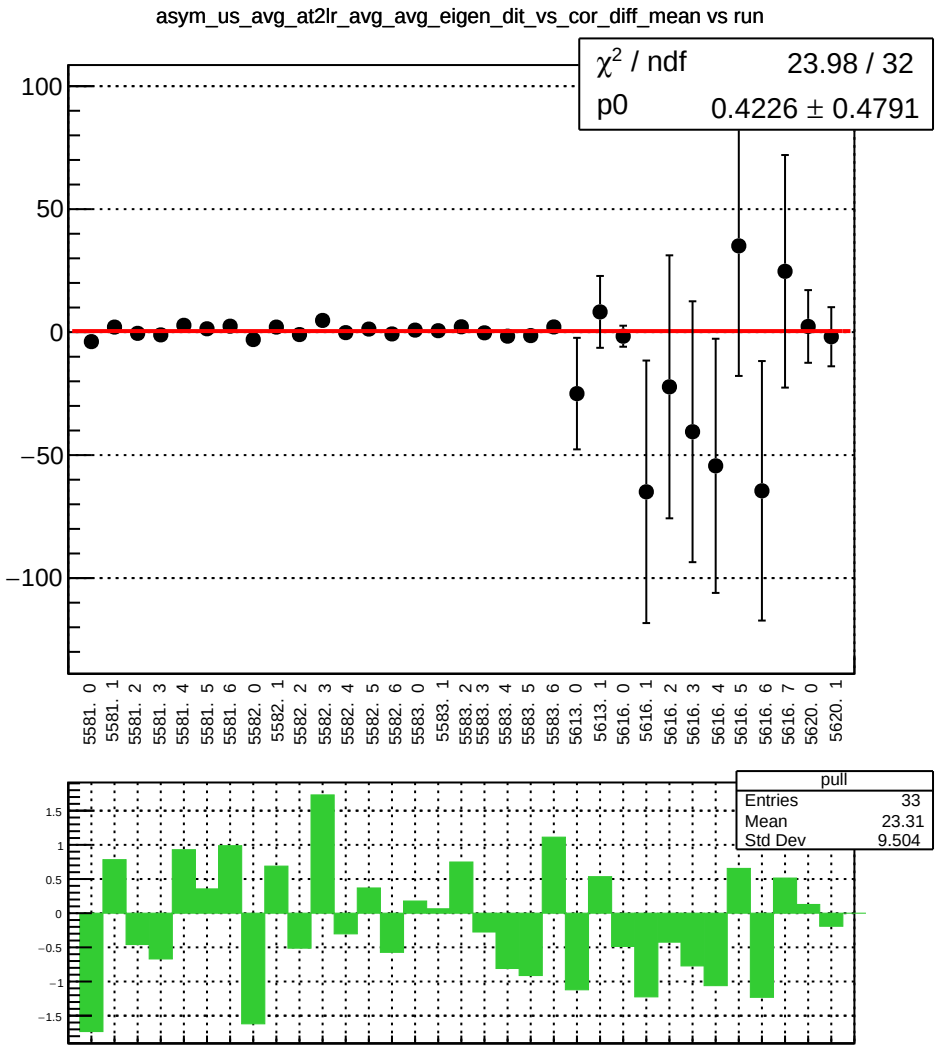

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.98 / 32
p0 0.4226 ± 0.4791
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.31
Std Dev 9.504
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1392
Std Dev 0.841
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

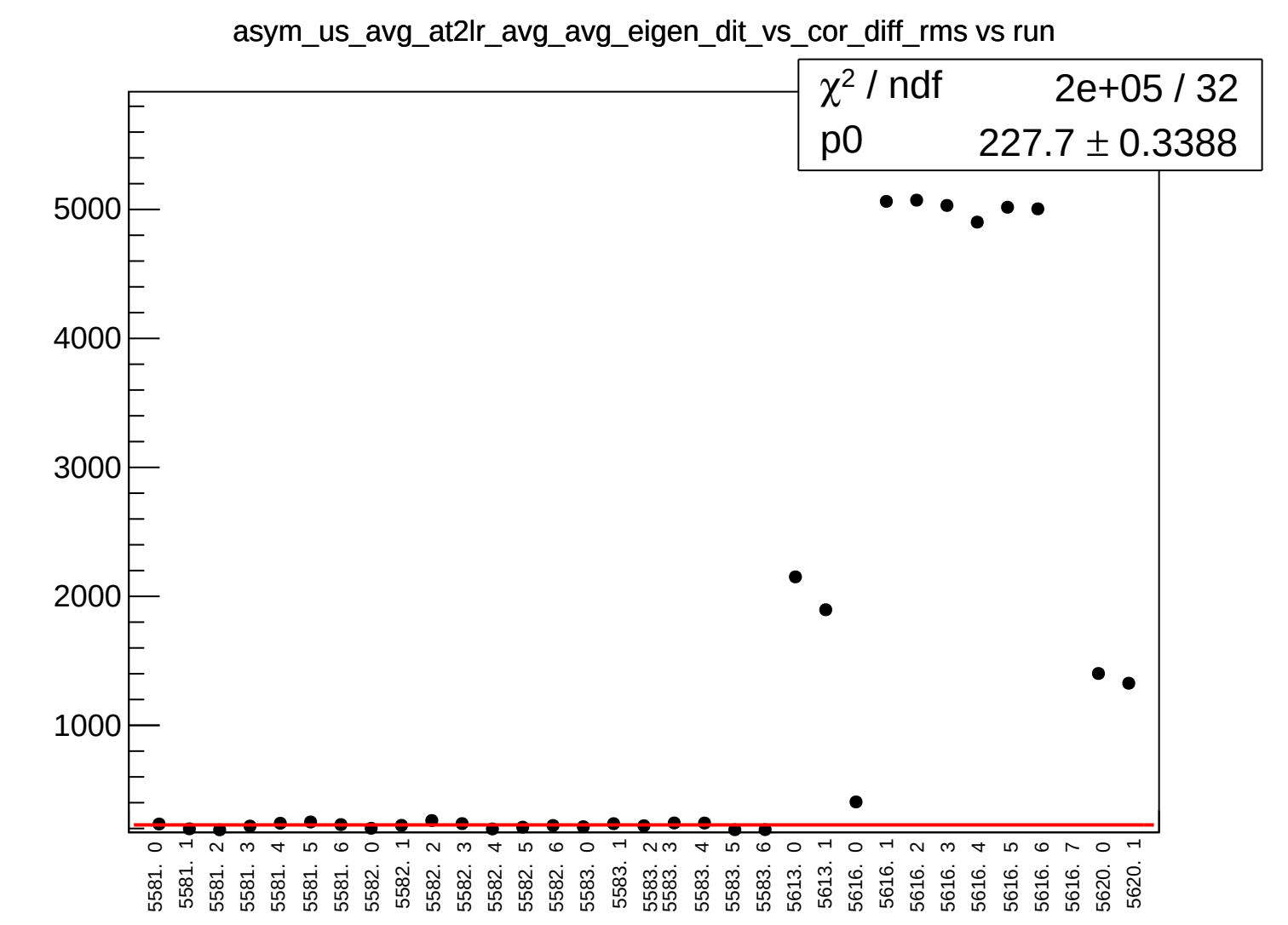

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2e+05 / 32
p0 227.7 ± 0.3388
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

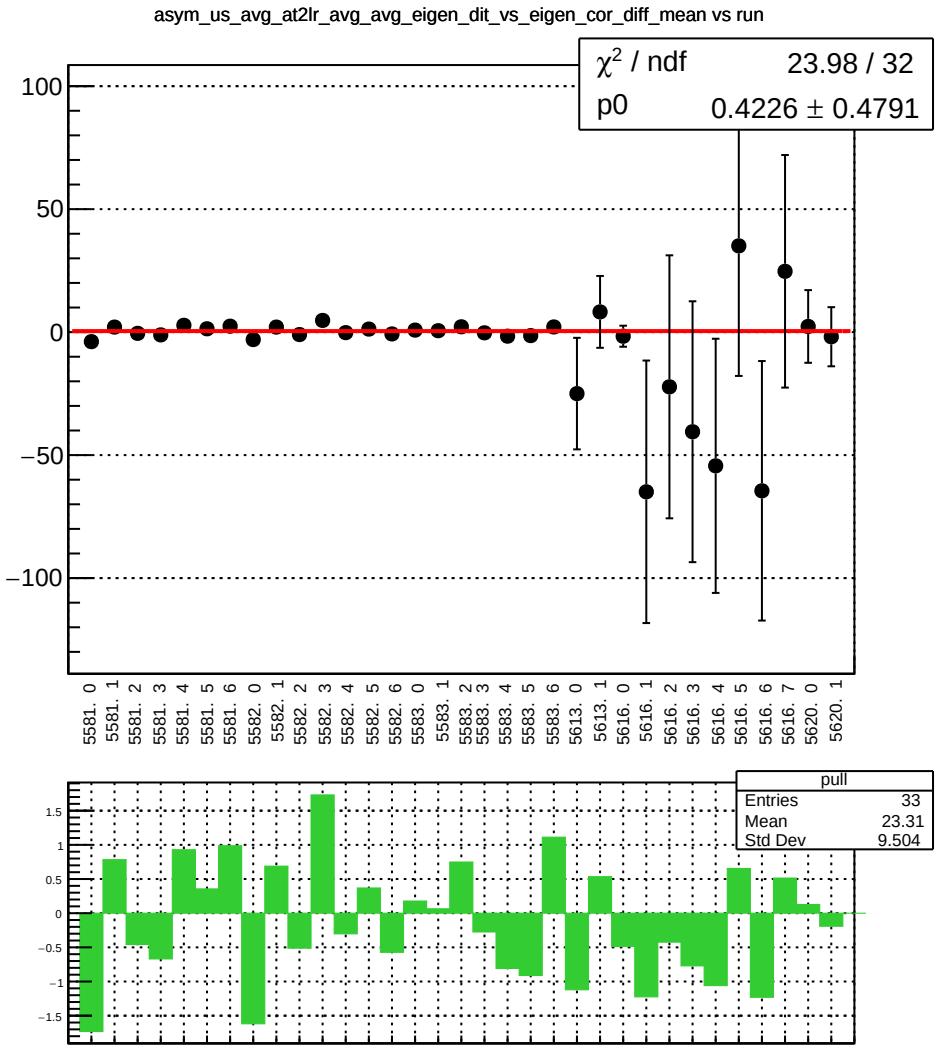

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.82 / 32
p0 −3.087e−06 ± 1.579e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

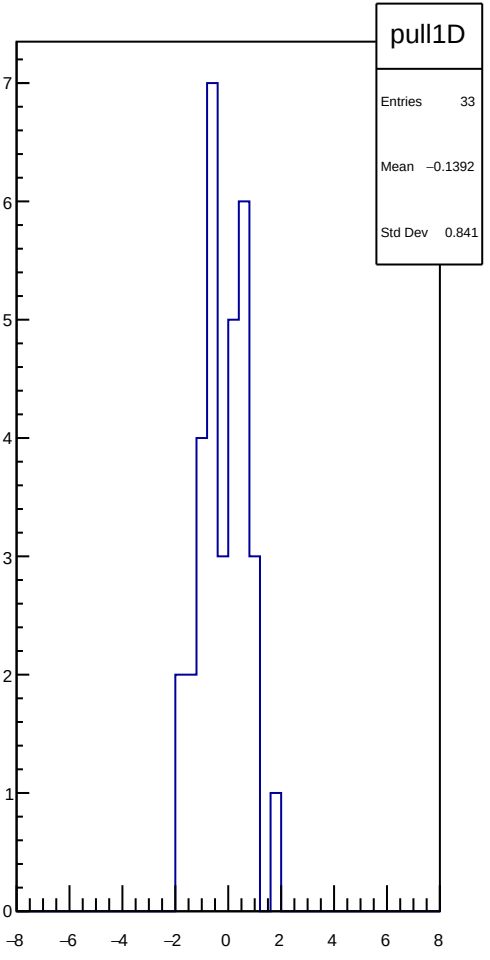

pull1D
Entries 33
Mean 0.06394
Std Dev 0.9324
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

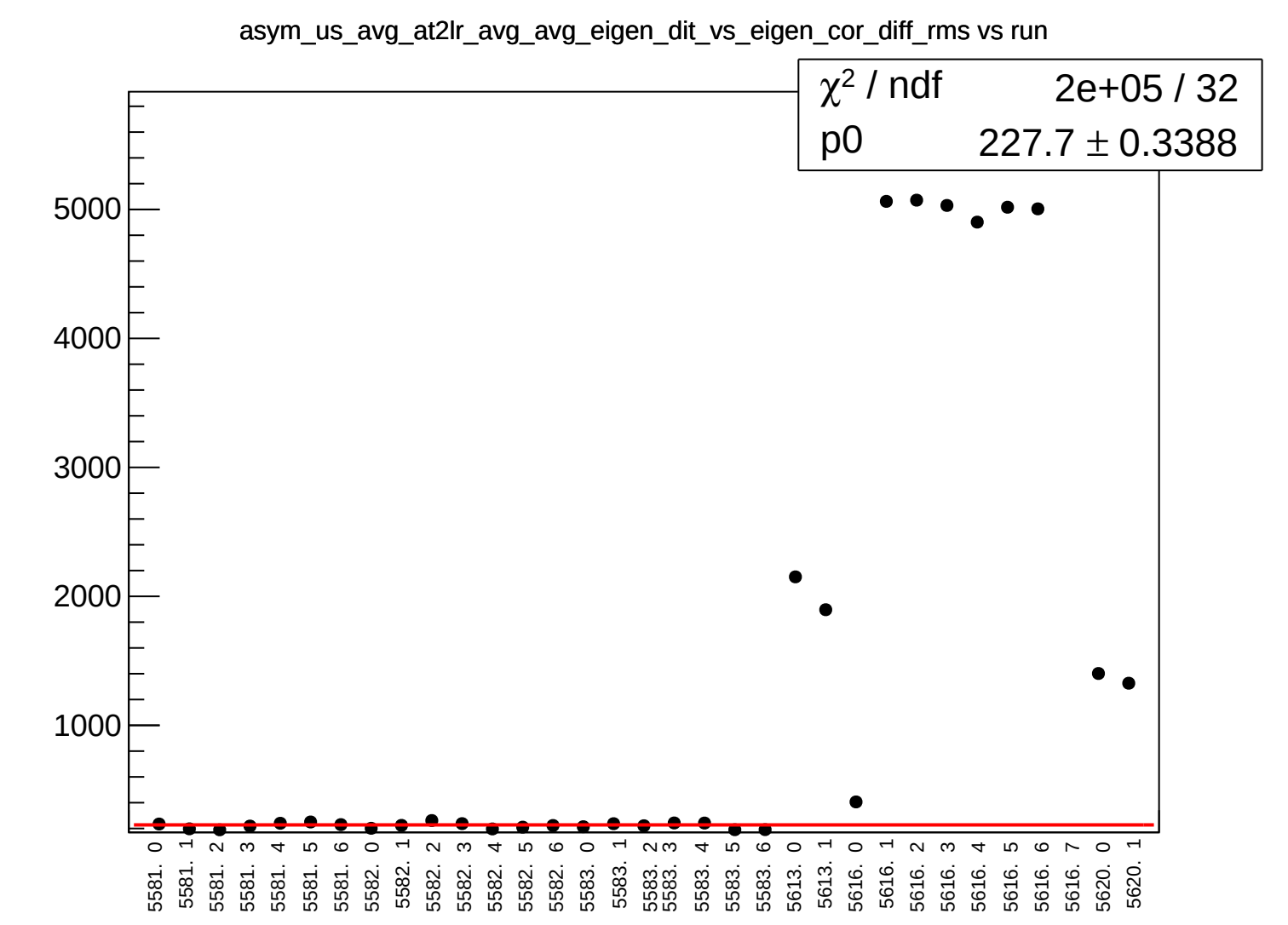

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.291e+05 / 32
p0 0.008072 ± 1.116e−05
0.03
0.025
0.02
0.015
0.01
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

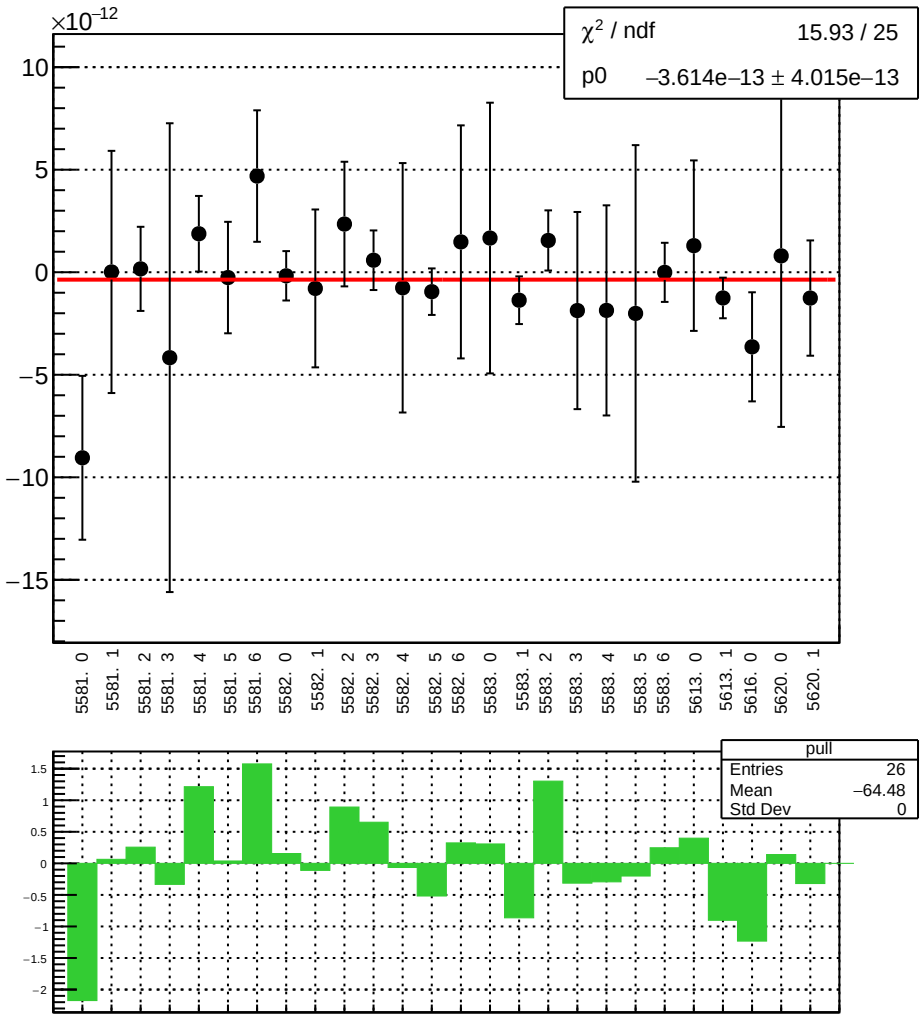

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.98 / 32
p0 0.4226 ± 0.4791
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.31
Std Dev 9.504
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1392
Std Dev 0.841
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

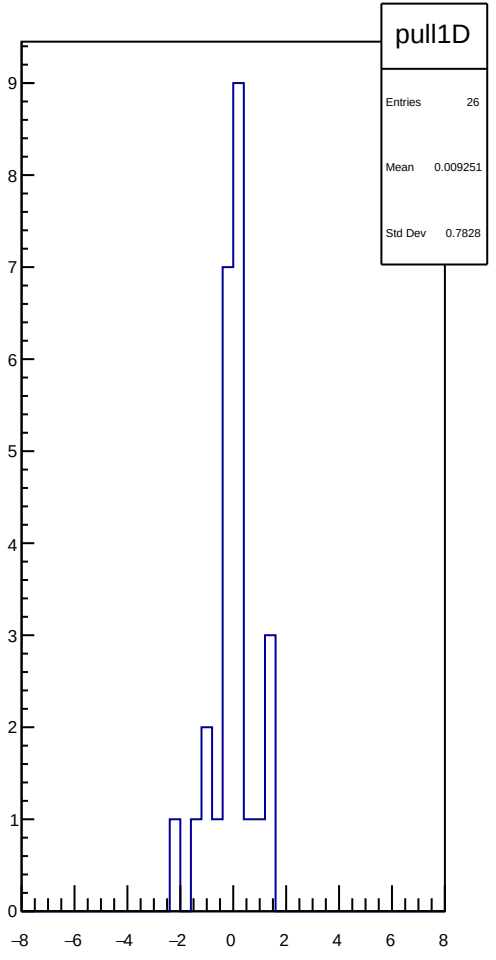

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2e+05 / 32
p0 227.7 ± 0.3388
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

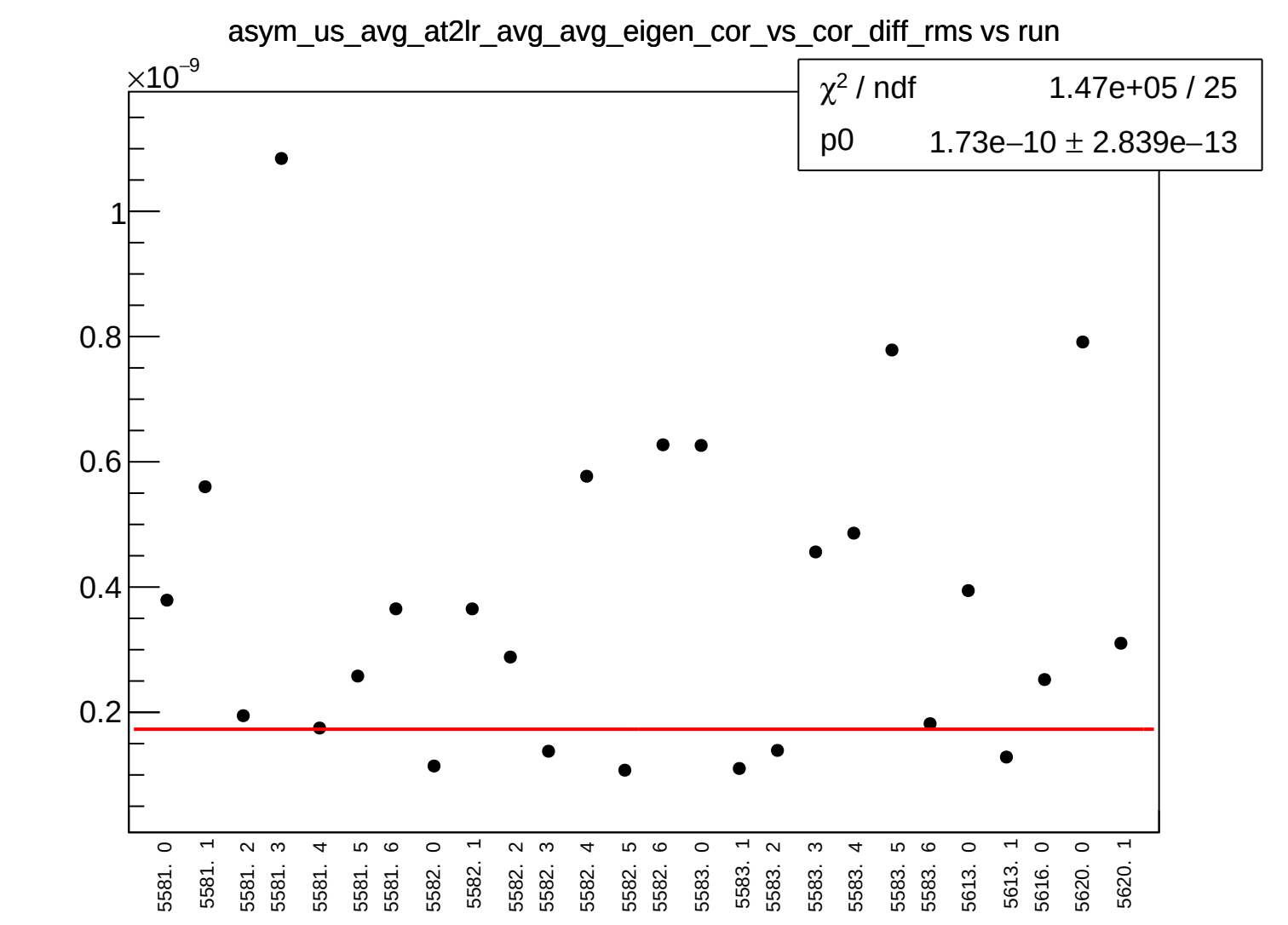

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.98 / 32
p0 0.4226 ± 0.4791
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.31
Std Dev 9.504
1.5
1
0.5
0
−0.5
−1
−1.5

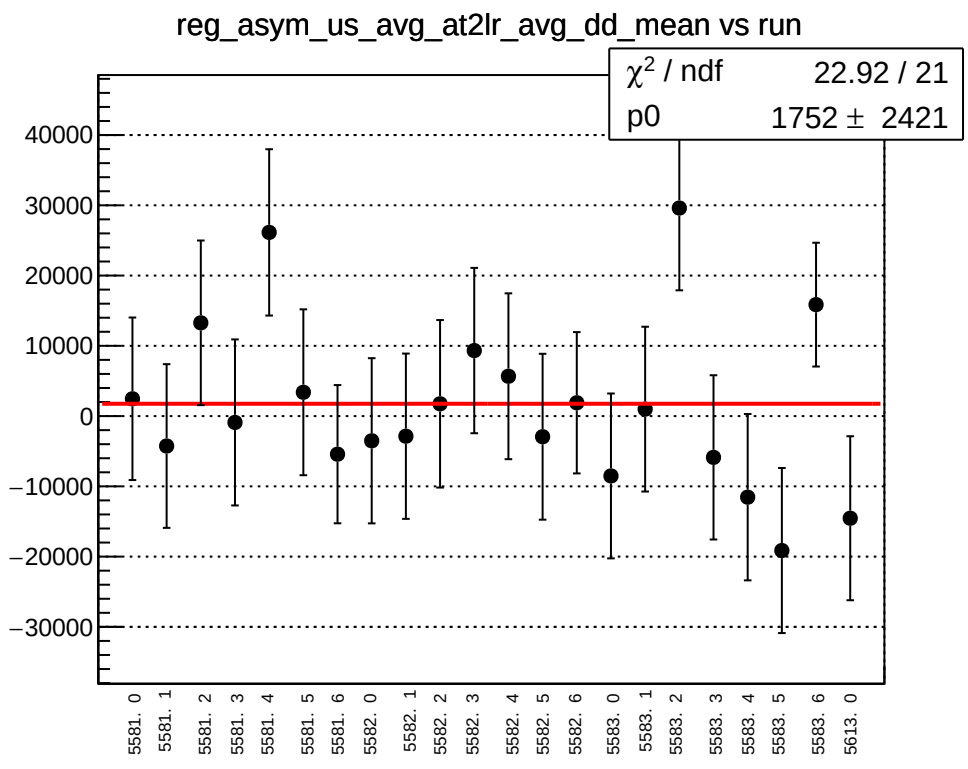

pull1D
Entries 33
Mean −0.1392
Std Dev 0.841
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

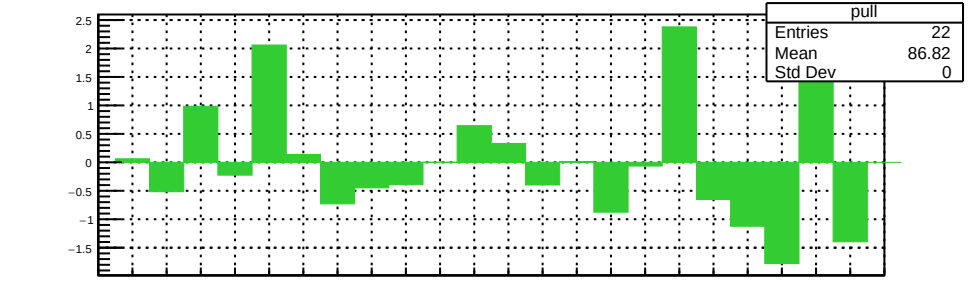

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2e+05 / 32
p0 227.7 ± 0.3388
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

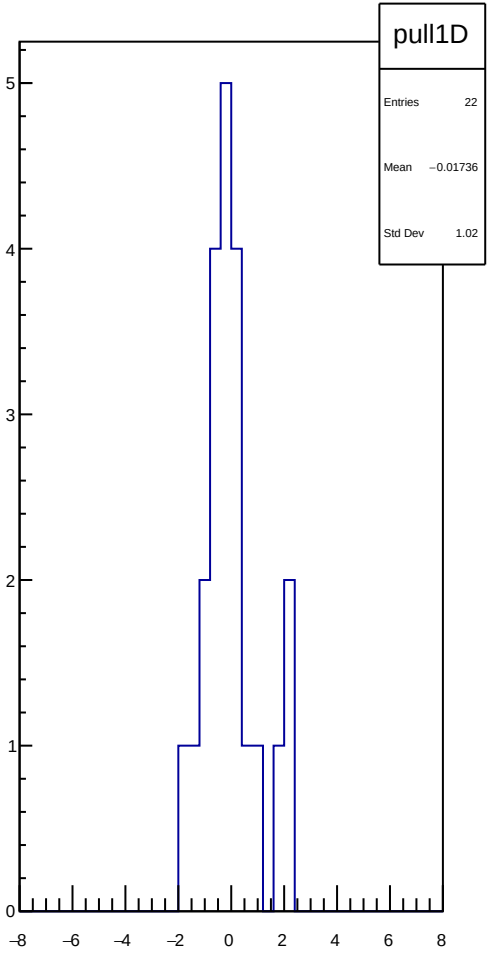

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 15.93 / 25
p0 −3.614e−13 ± 4.015e−13
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −64.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

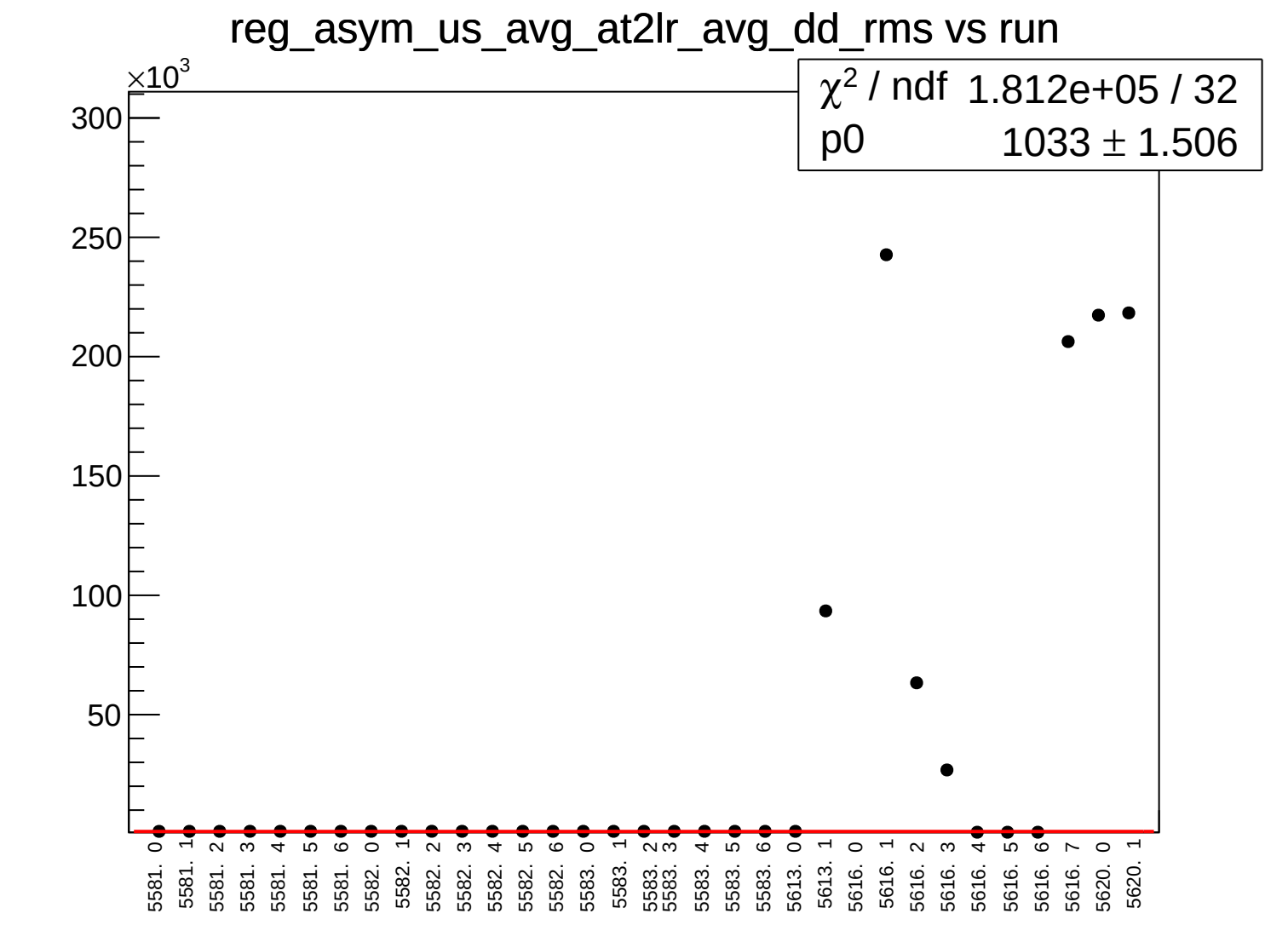

pull1D
Entries 26
Mean 0.009251
Std Dev 0.7828
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

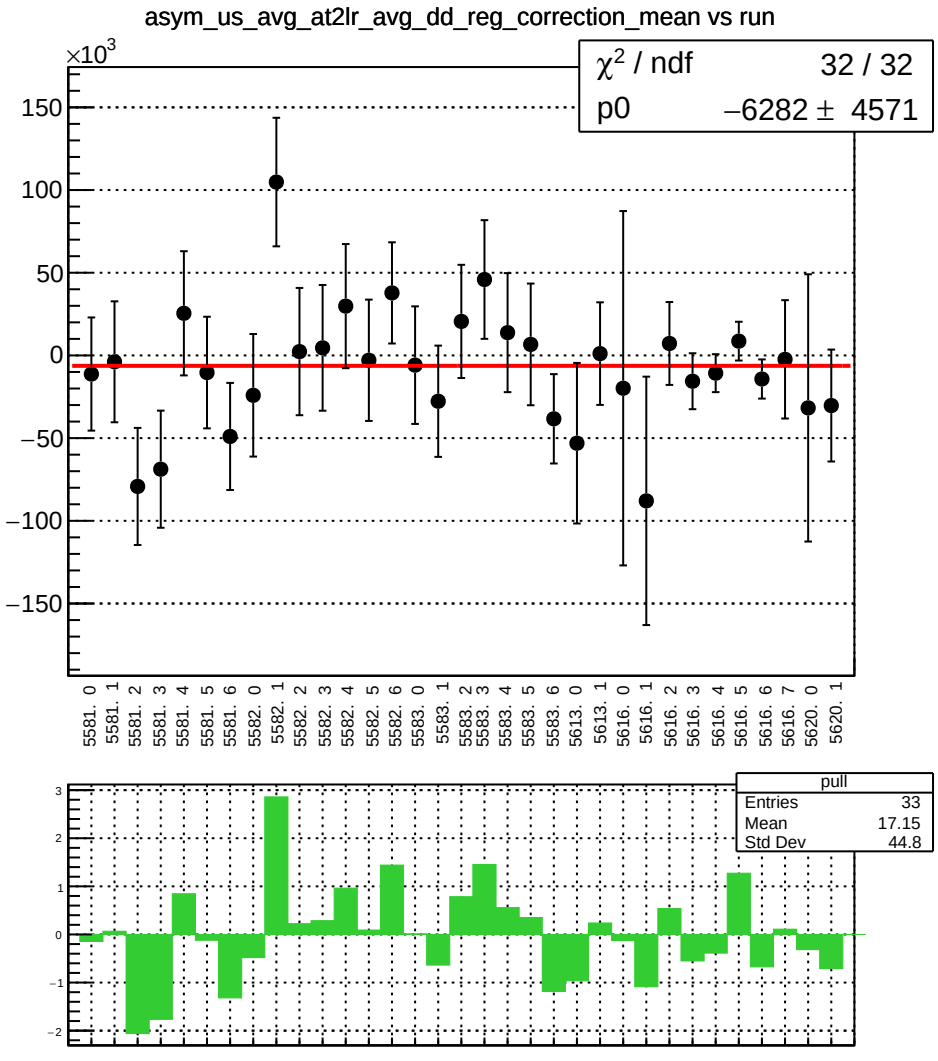

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.47e+05 / 25
p0 1.73e−10 ± 2.839e−13
1
0.8
0.6
0.4
0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

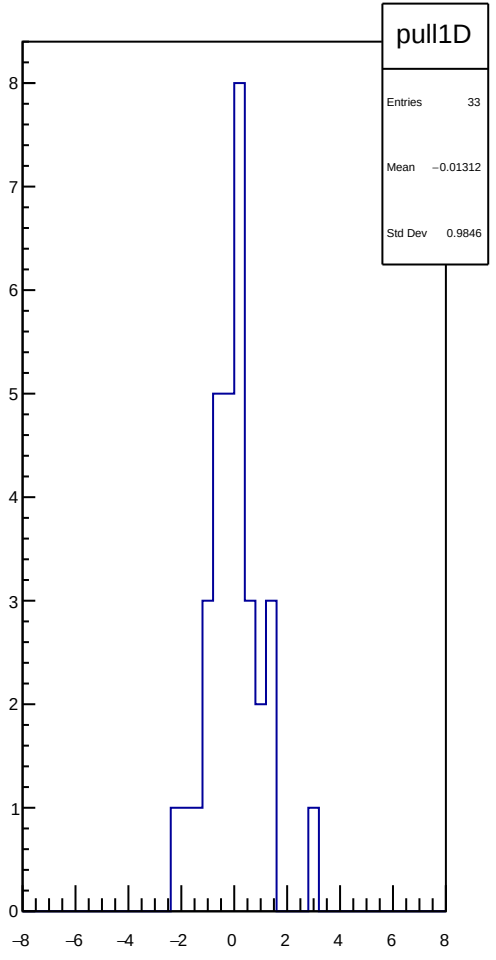

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 22.92 / 21
p0 1752 ± 2421
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

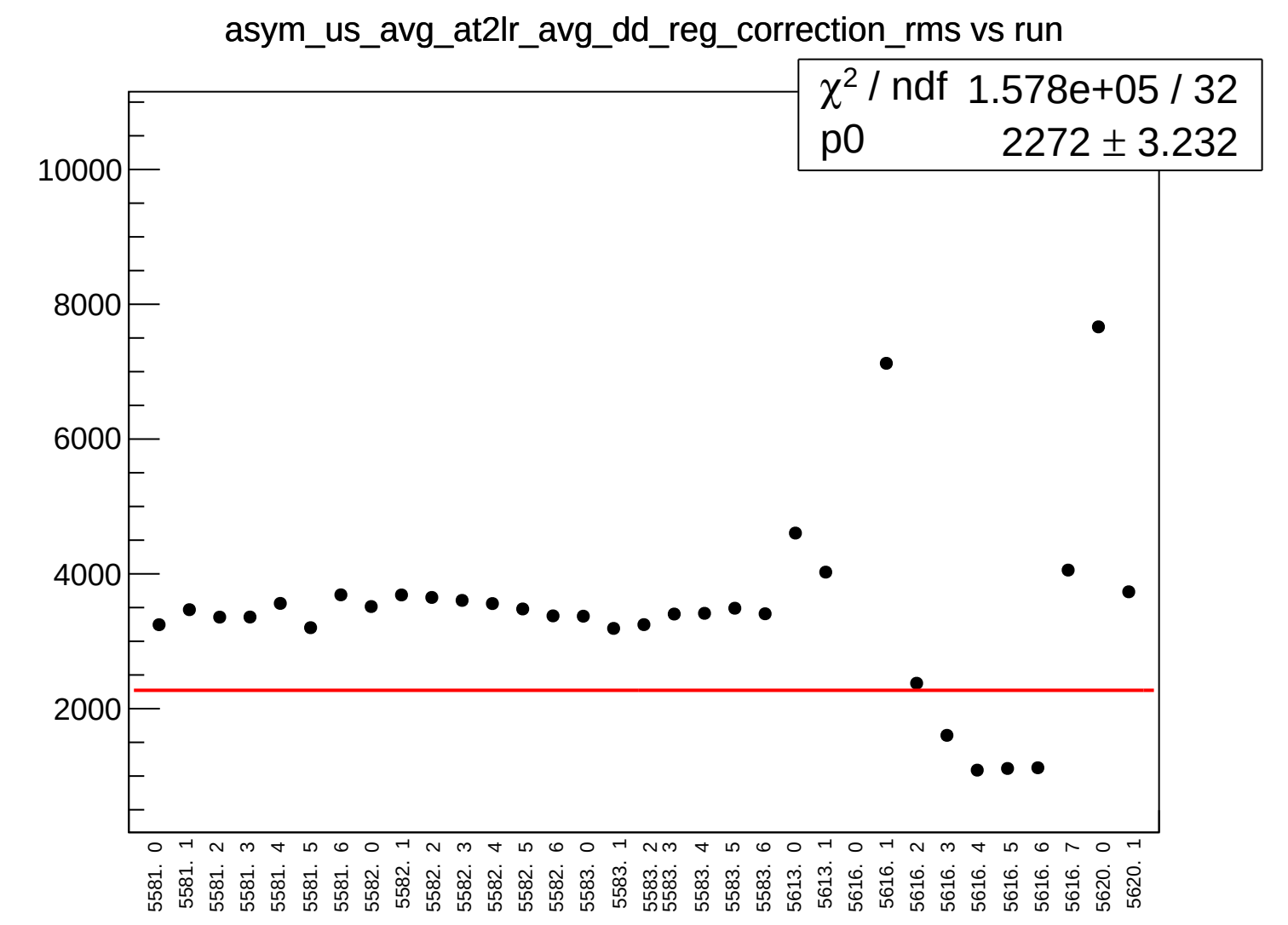

pull
Entries 22
Mean 86.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

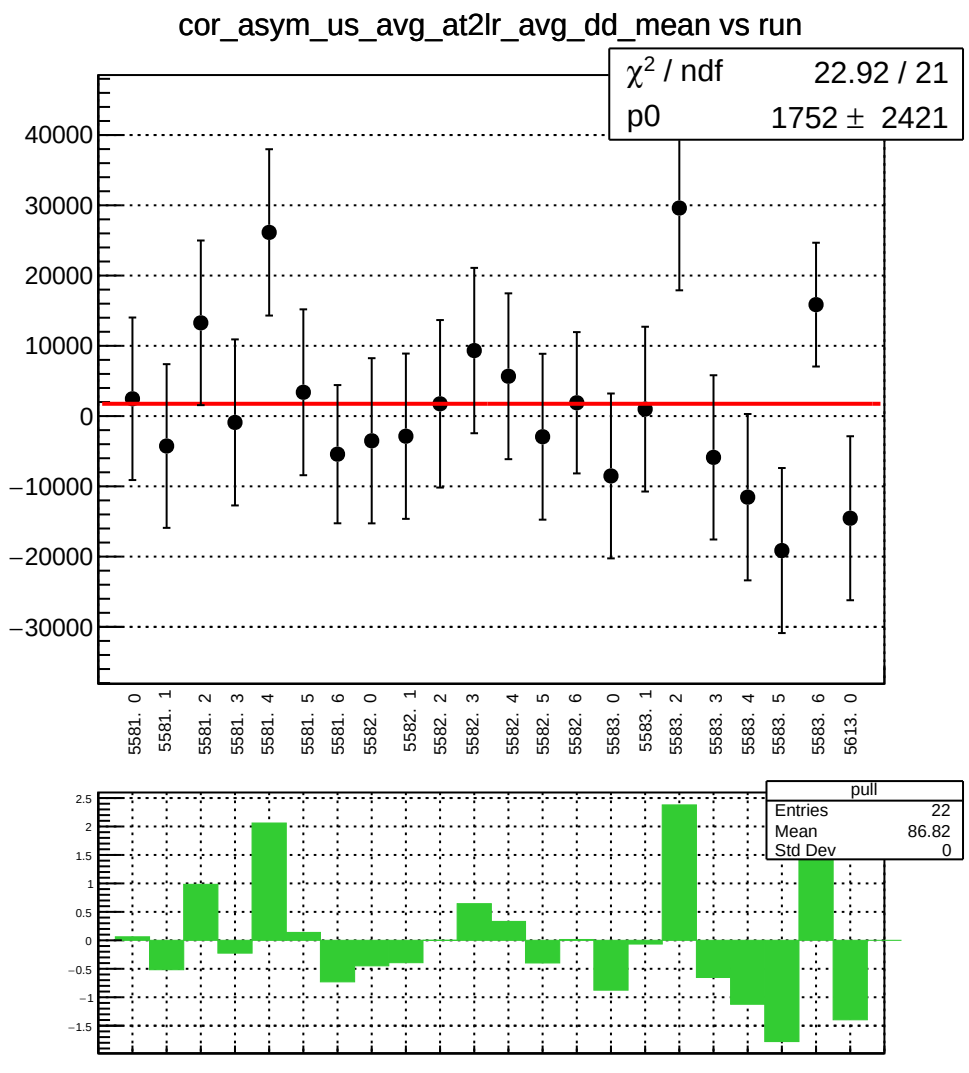

pull1D
Entries 22
Mean −0.01736
Std Dev 1.02
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

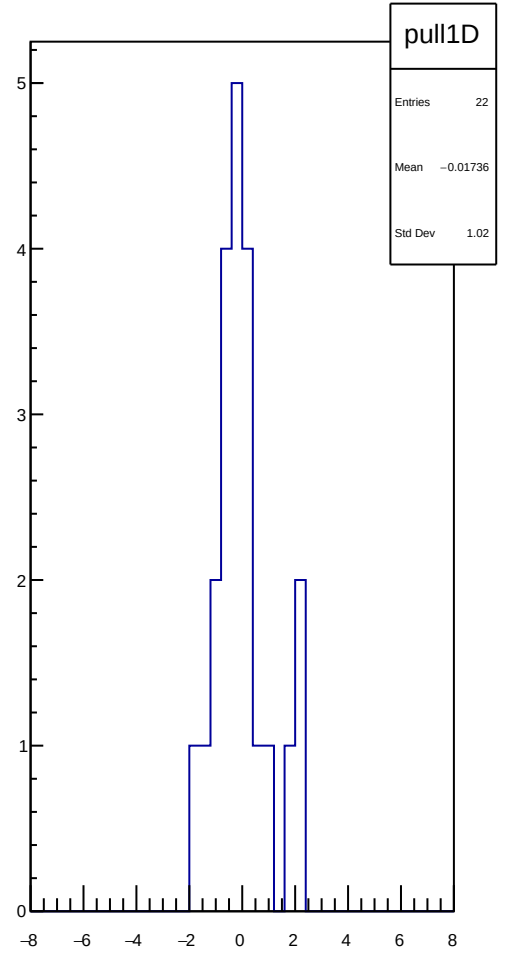

reg_asym_us_avg_at2lr_avg_dd_rms vs run
×10^3
χ² / ndf 1.812e+05 / 32
p0 1033 ± 1.506
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

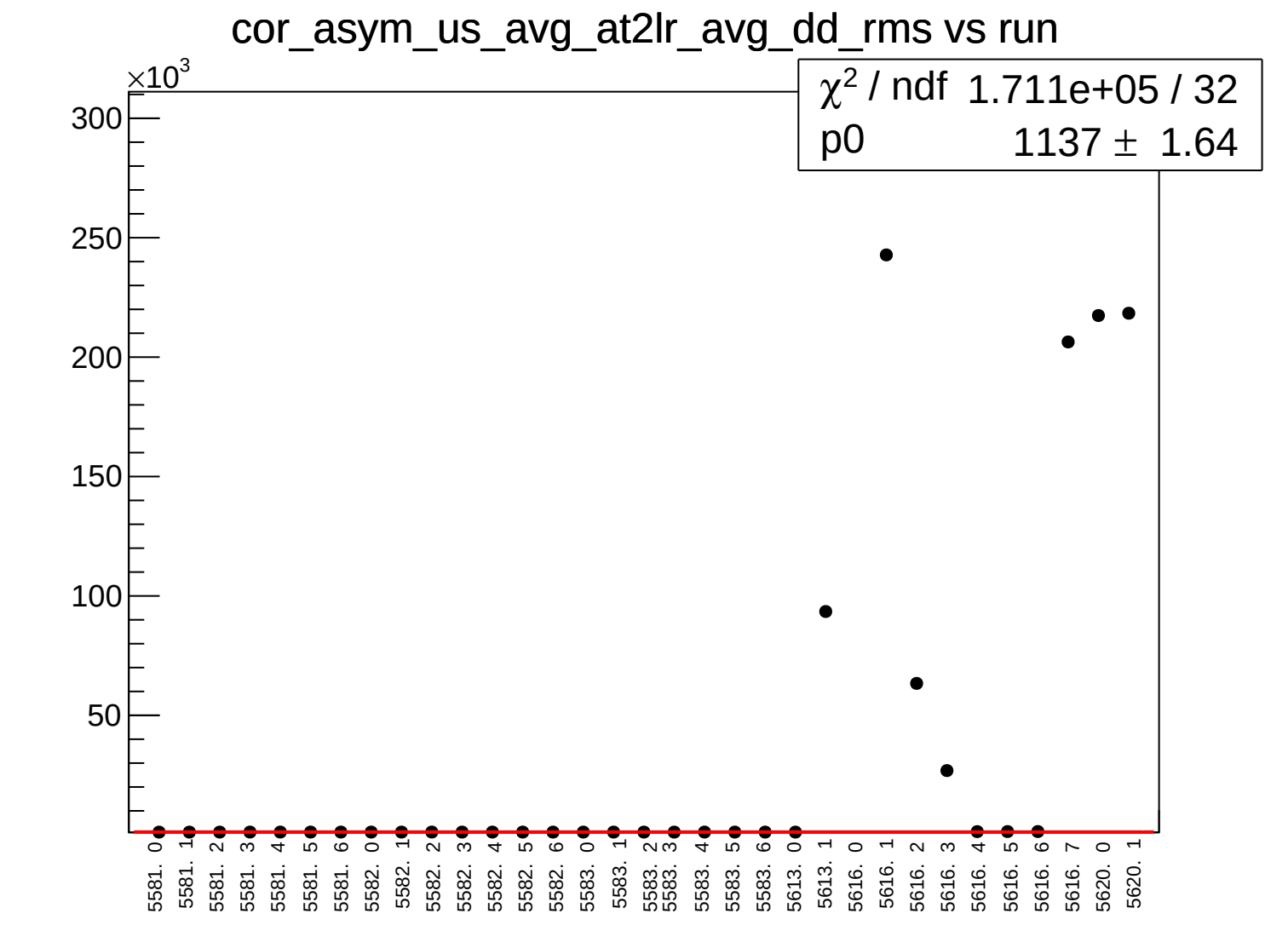

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 32 / 32
p0 −6282 ± 4571
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.15
Std Dev 44.8
3
2
1
0
−1
−2

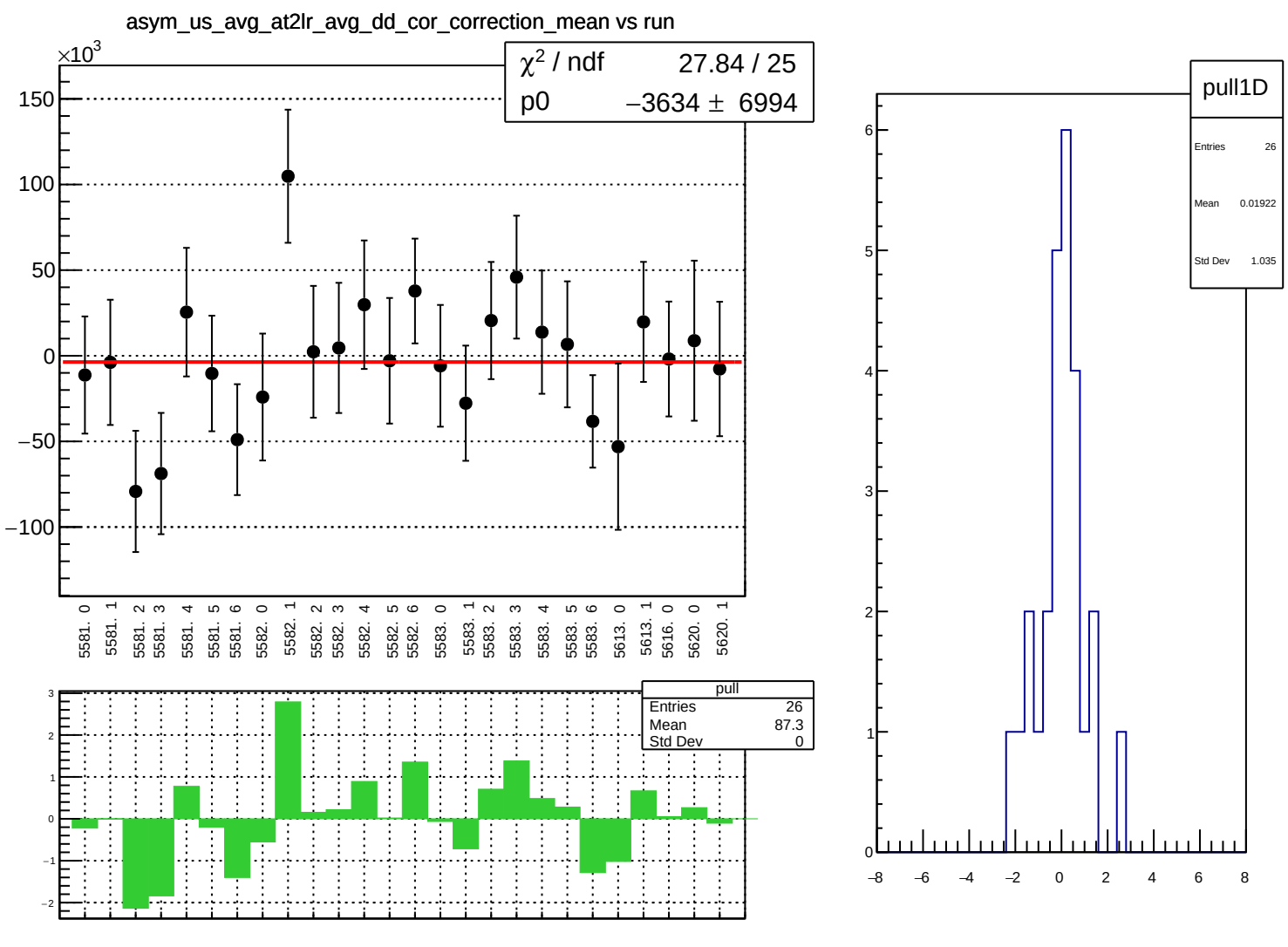

pull1D
Entries 33
Mean −0.01312
Std Dev 0.9846
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

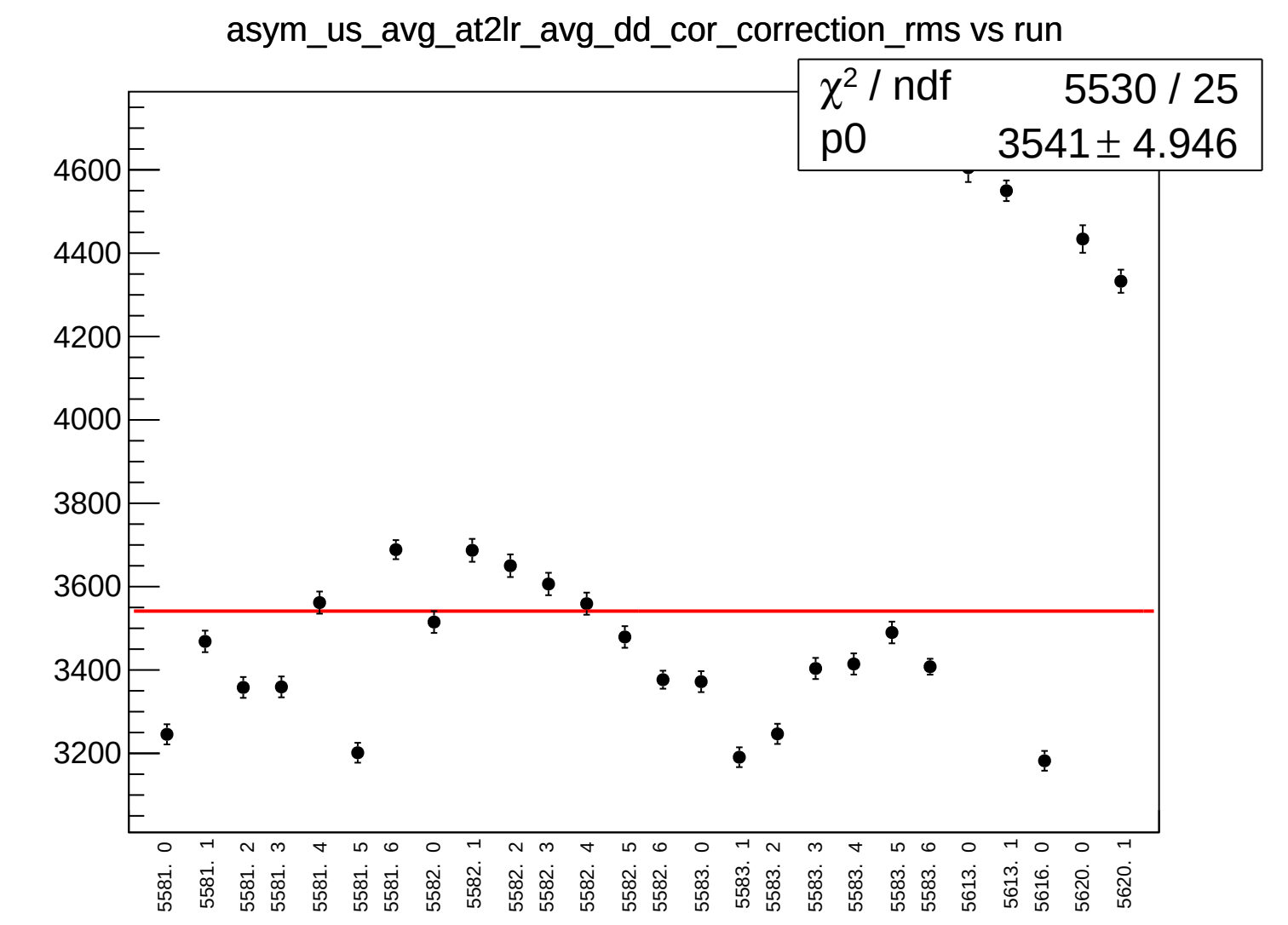

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.578e+05 / 32
p0 2272 ± 3.232
10000
8000
6000
4000
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

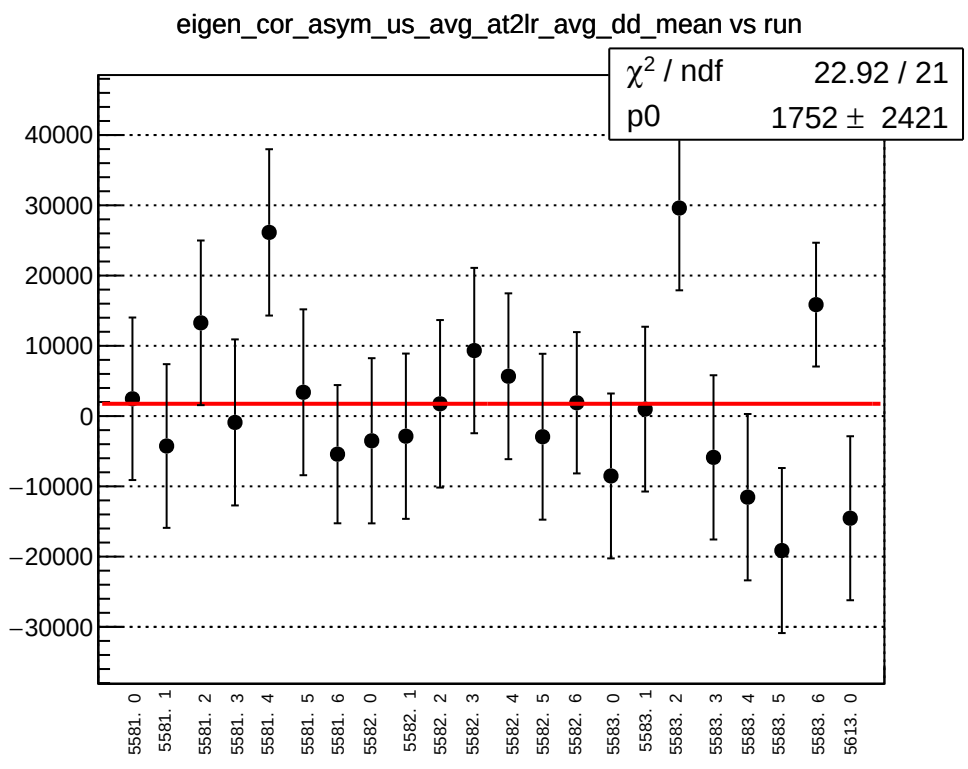

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 22.92 / 21
p0 1752 ± 2421
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 86.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

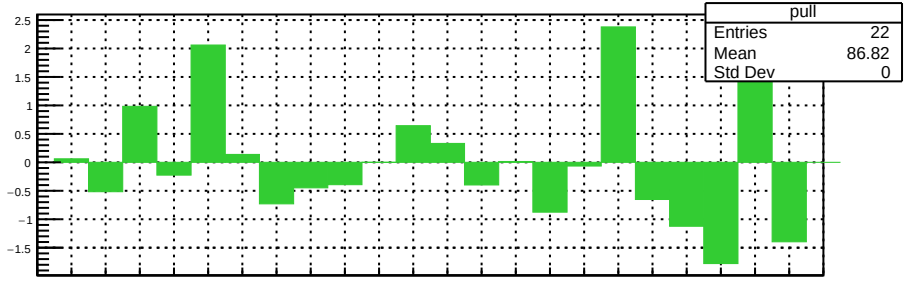

pull1D
Entries 22
Mean −0.01736
Std Dev 1.02
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

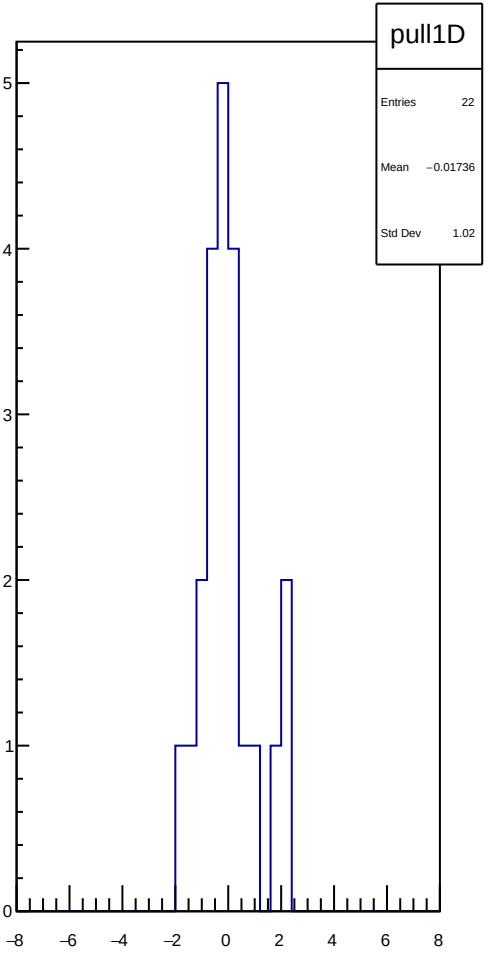

cor_asym_us_avg_at2lr_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.711e+05 / 32
p0 1137 ± 1.64
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

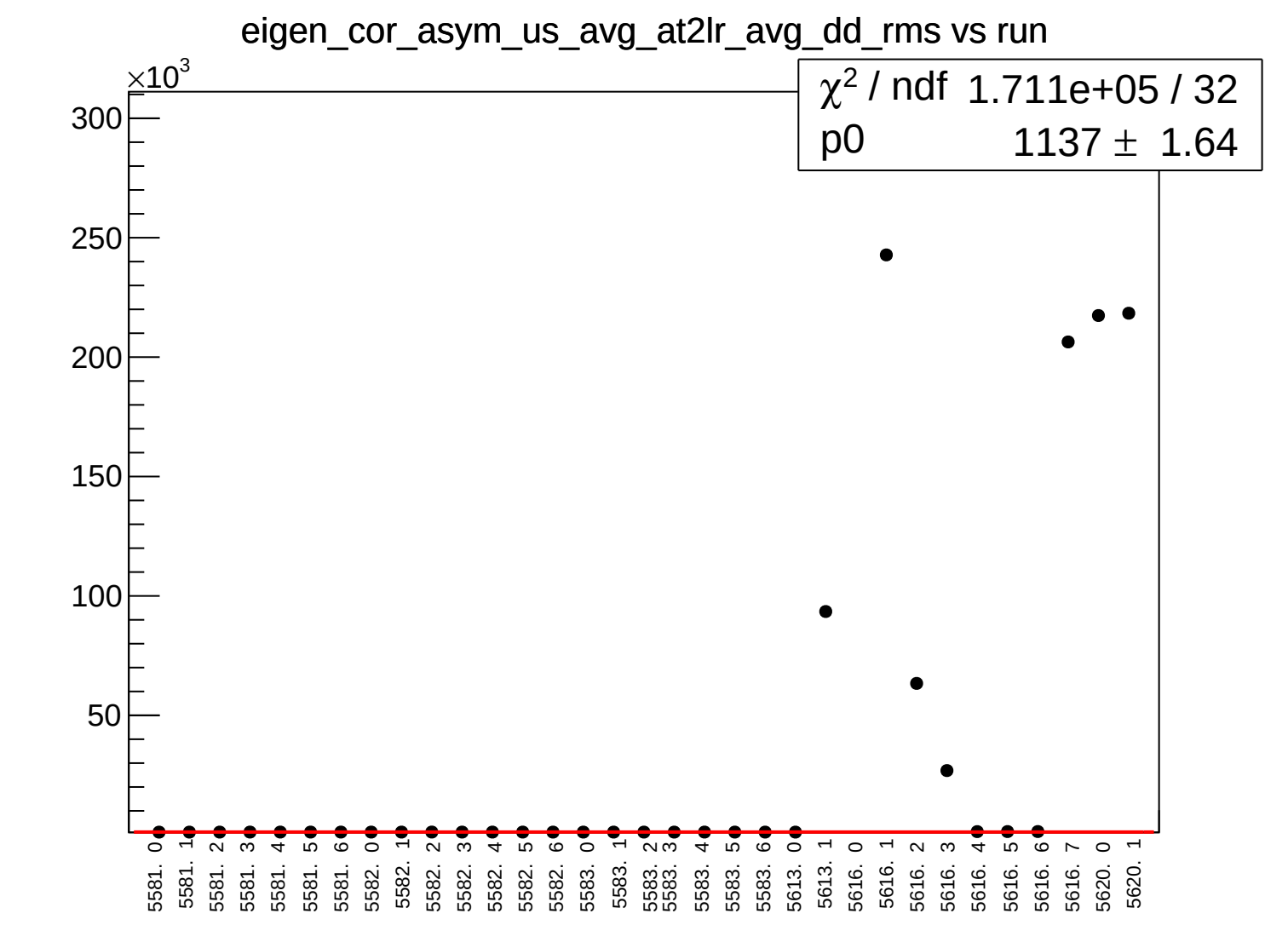

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 27.84 / 25
p0 −3634 ± 6994
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 87.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.01922
Std Dev 1.035
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

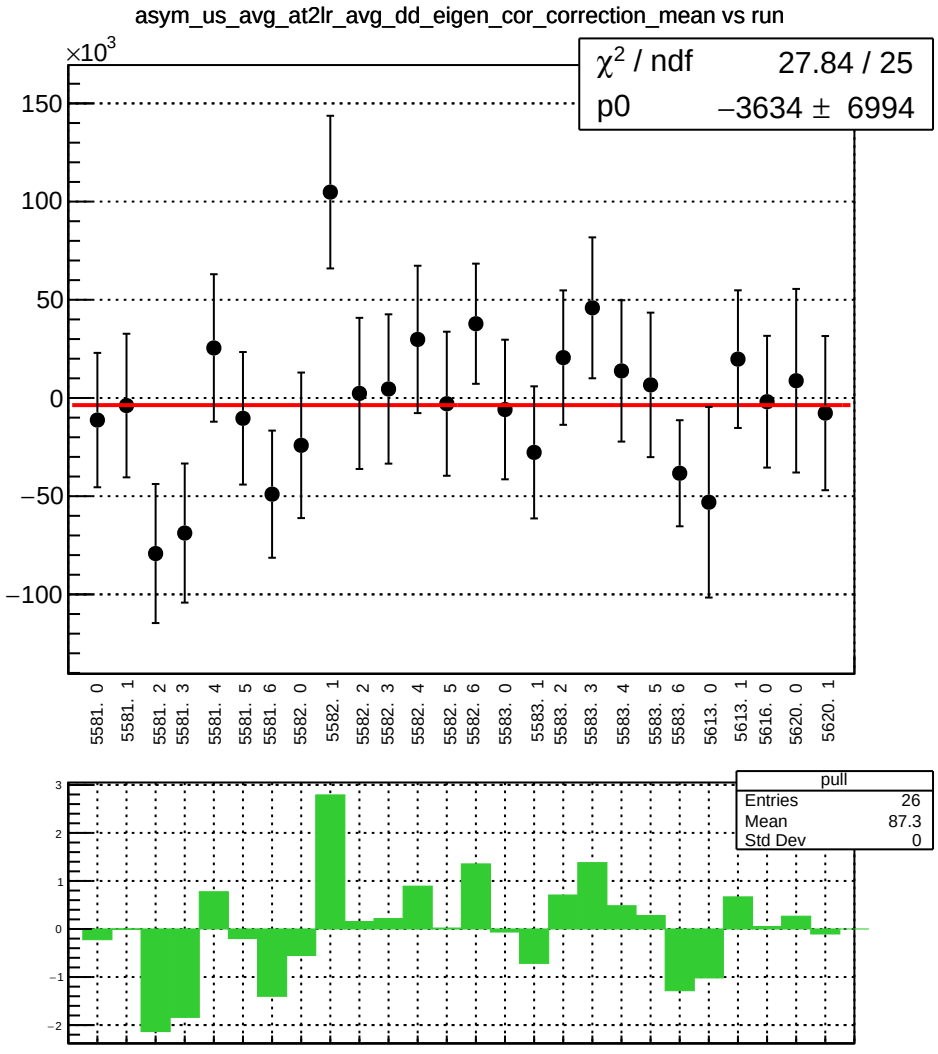

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 5530 / 25
p0 3541 ± 4.946
4600
4400
4200
4000
3800
3600
3400
3200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

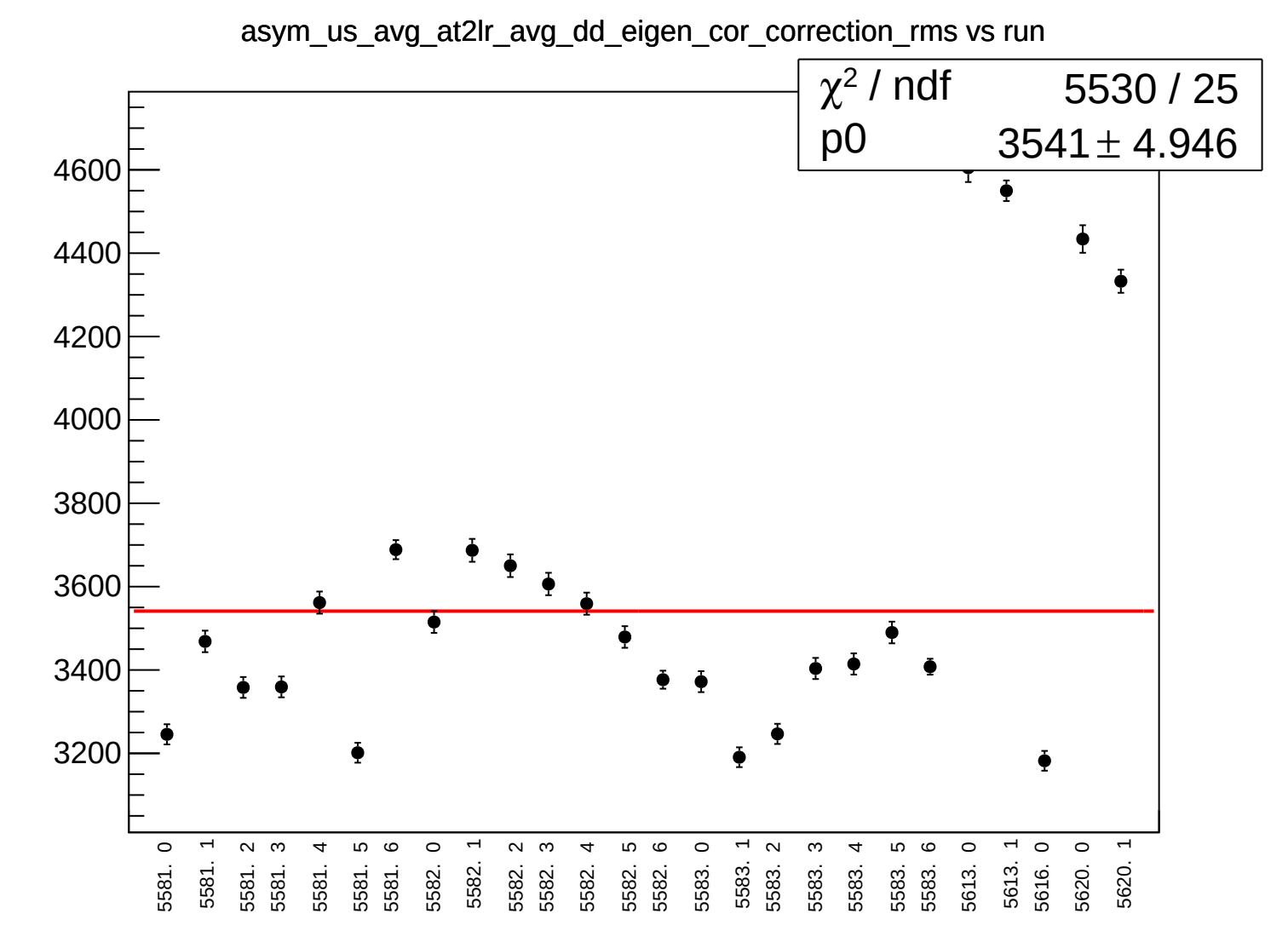

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 22.92 / 21
p0 1752 ± 2421
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0

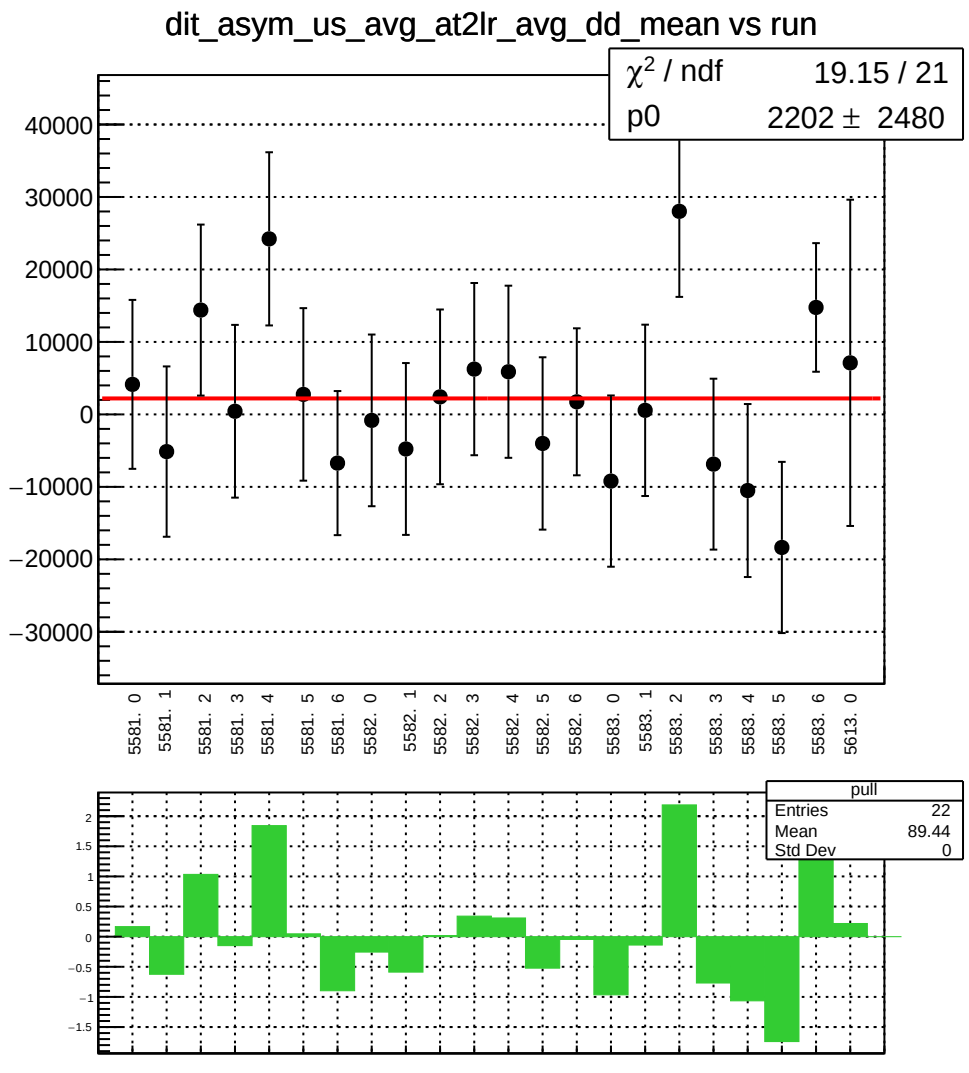

pull
Entries 22
Mean 86.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

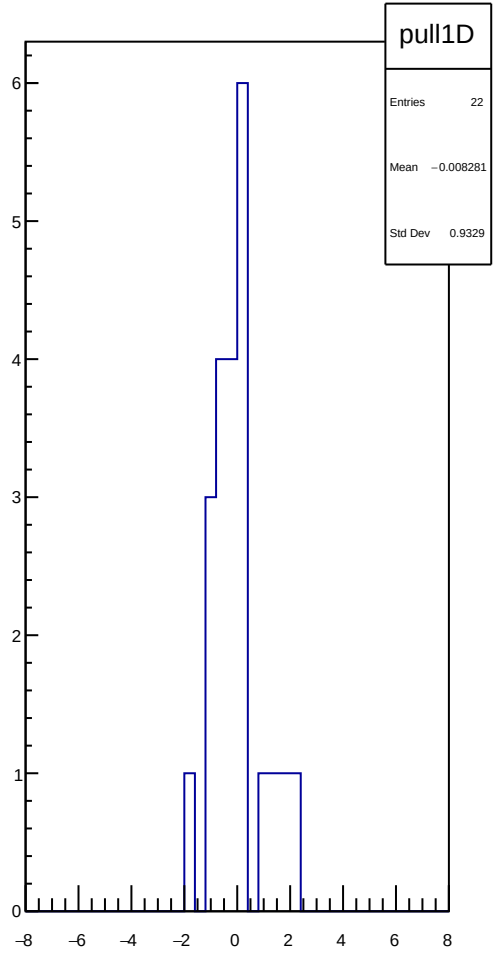

pull1D
Entries 22
Mean −0.01736
Std Dev 1.02
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

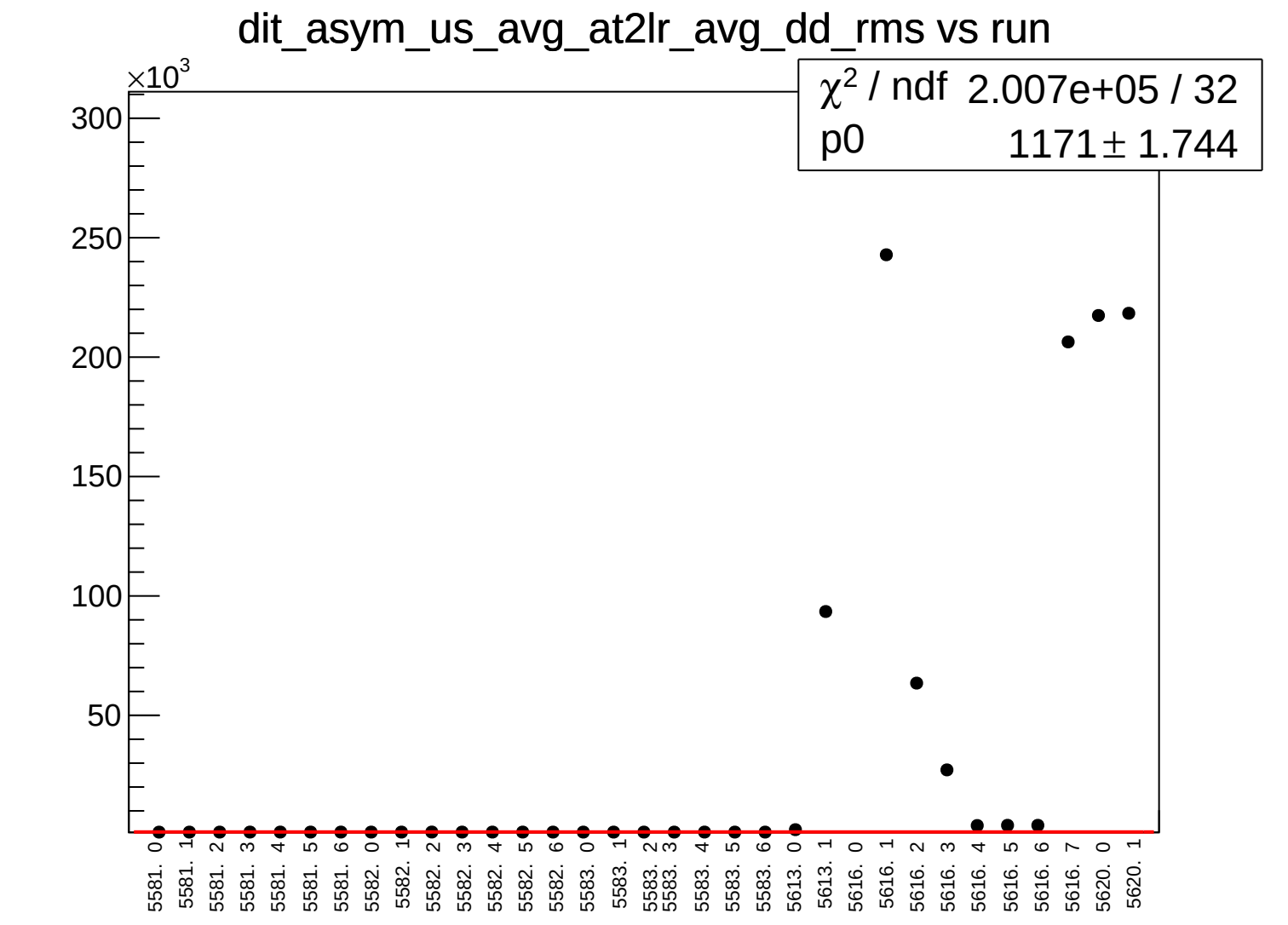

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.711e+05 / 32
p0 1137 ± 1.64
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

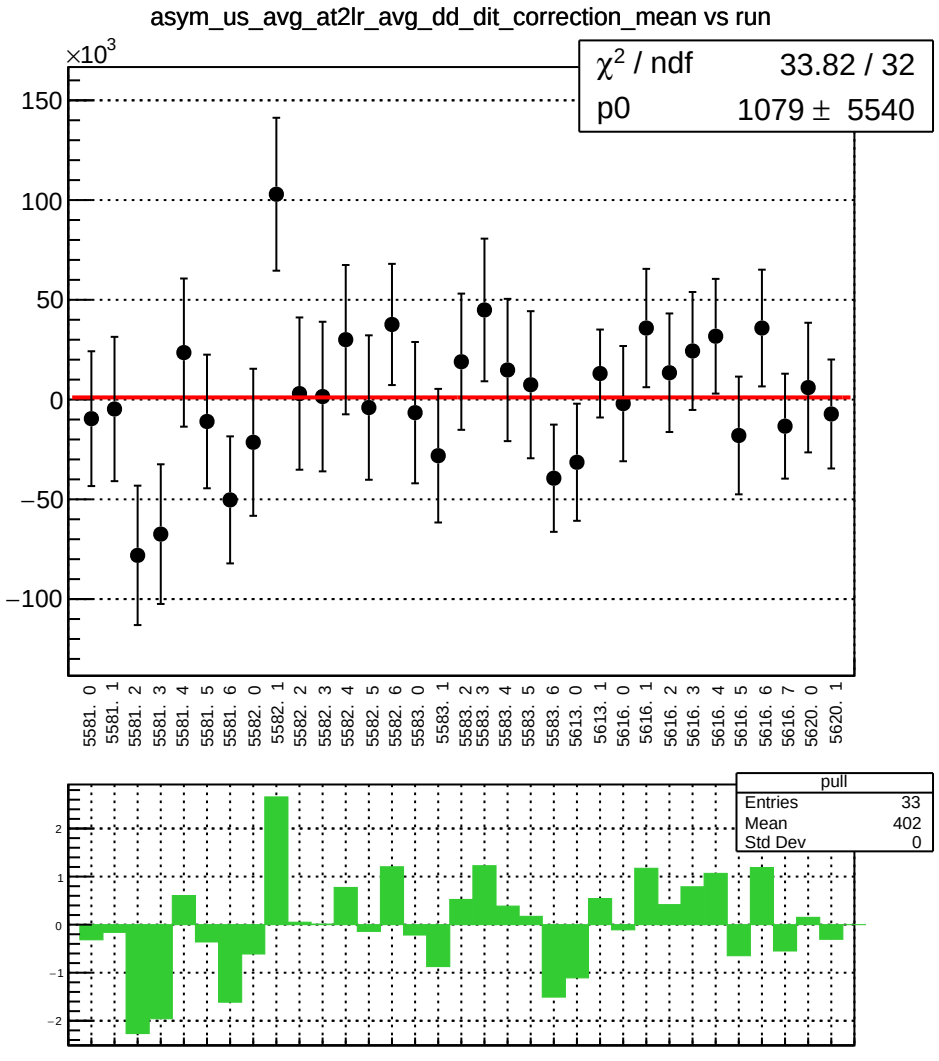

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 27.84 / 25
p0 −3634 ± 6994
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 87.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.01922
Std Dev 1.035
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

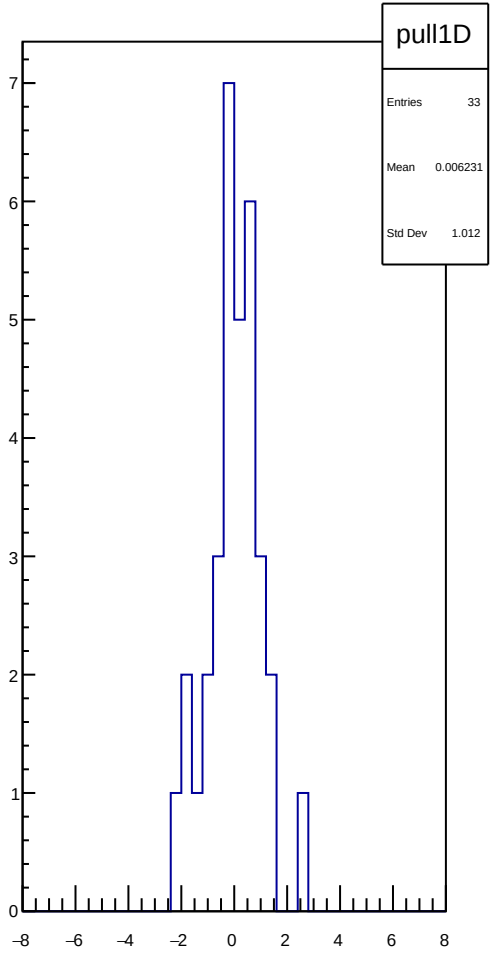

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5530 / 25
p0 3541 ± 4.946
4600
4400
4200
4000
3800
3600
3400
3200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

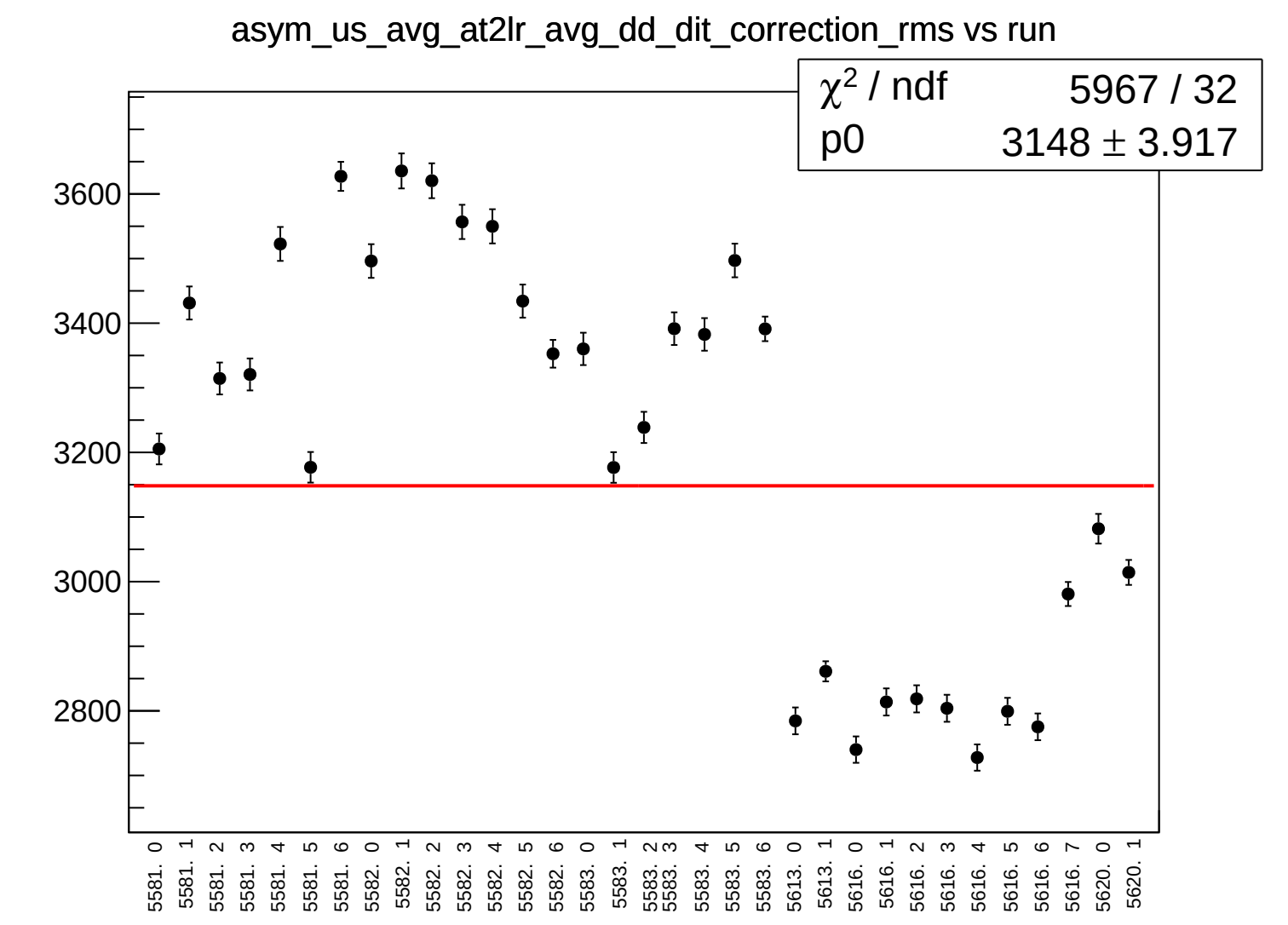

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 19.15 / 21
p0 2202 ± 2480
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 89.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

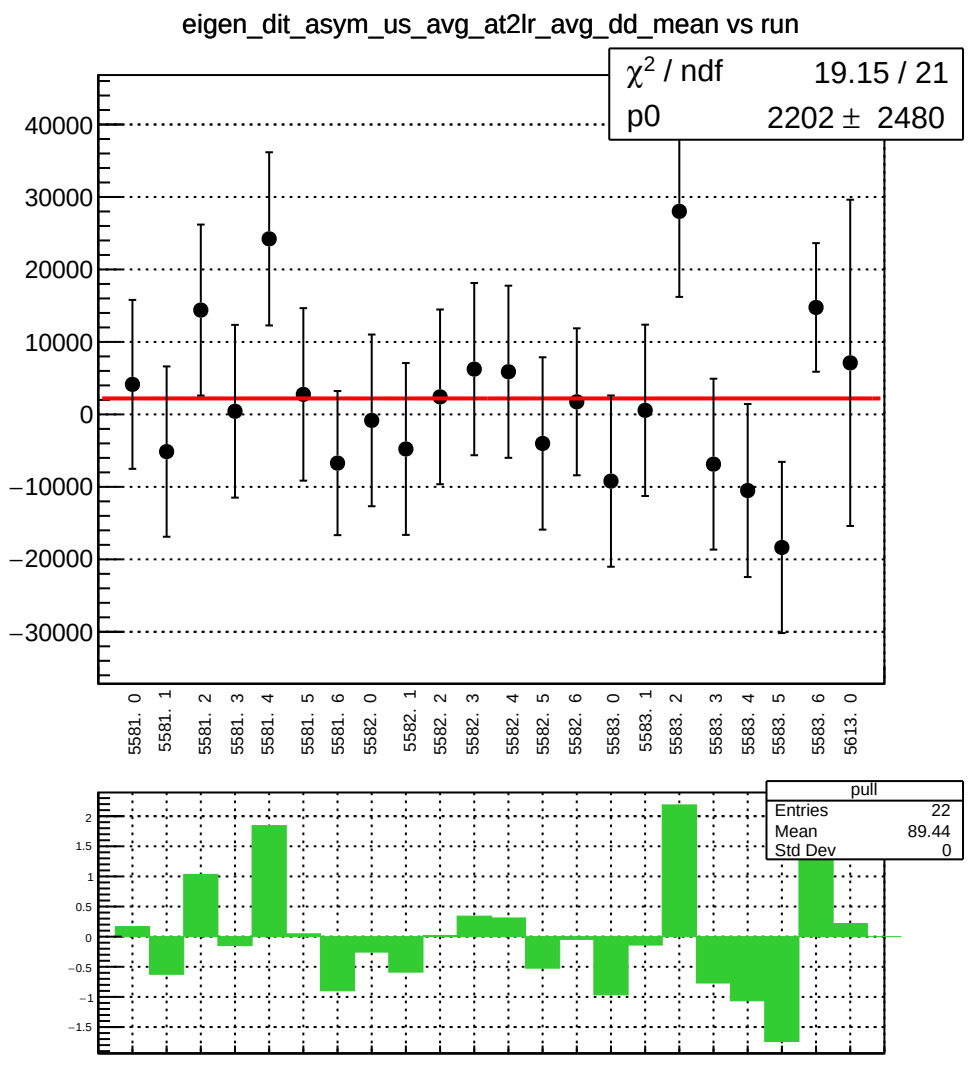

pull1D
Entries 22
Mean −0.008281
Std Dev 0.9329
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

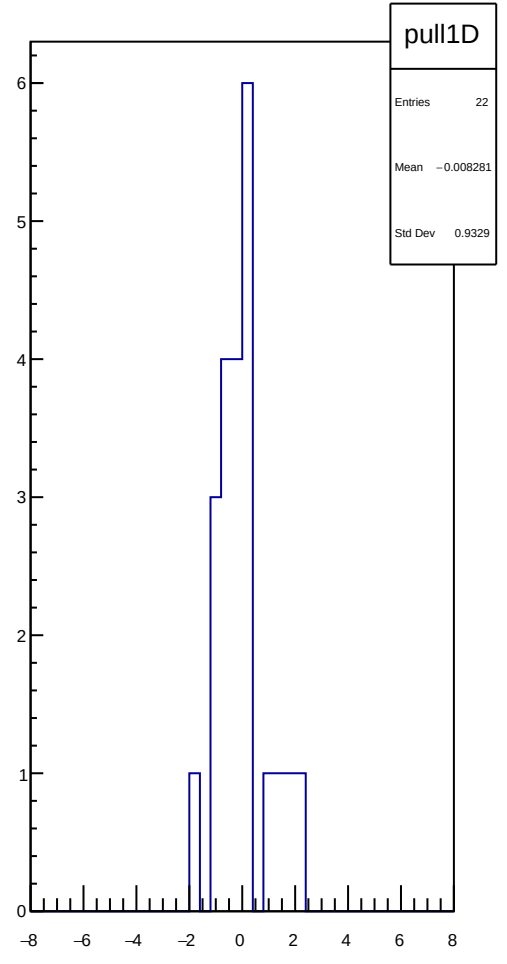

dit_asym_us_avg_at2lr_avg_dd_rms vs run
×10^3
χ² / ndf 2.007e+05 / 32
p0 1171 ± 1.744
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

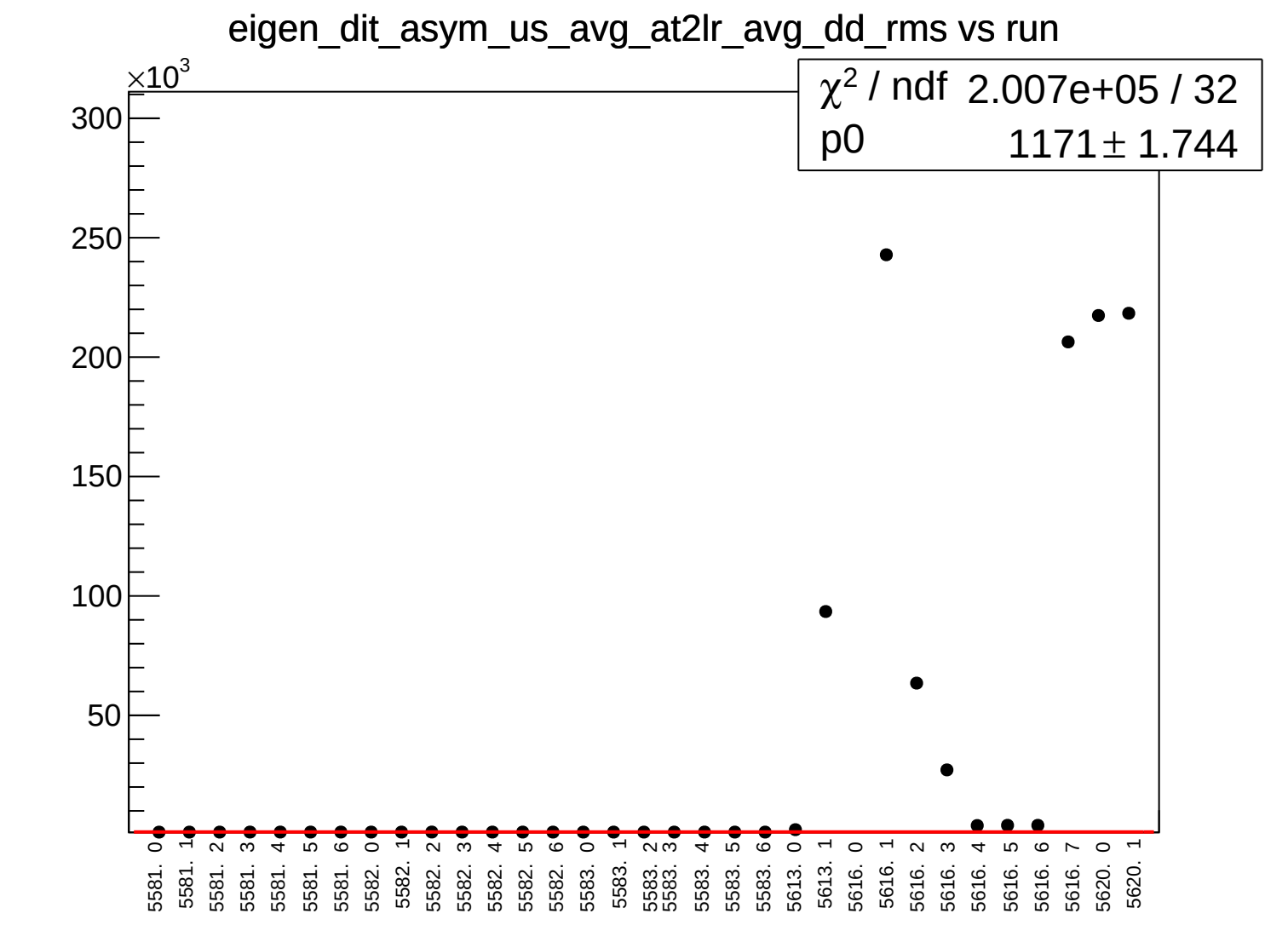

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 33.82 / 32
p0 1079 ± 5540
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 402
Std Dev 0
2
1
0
−1
−2

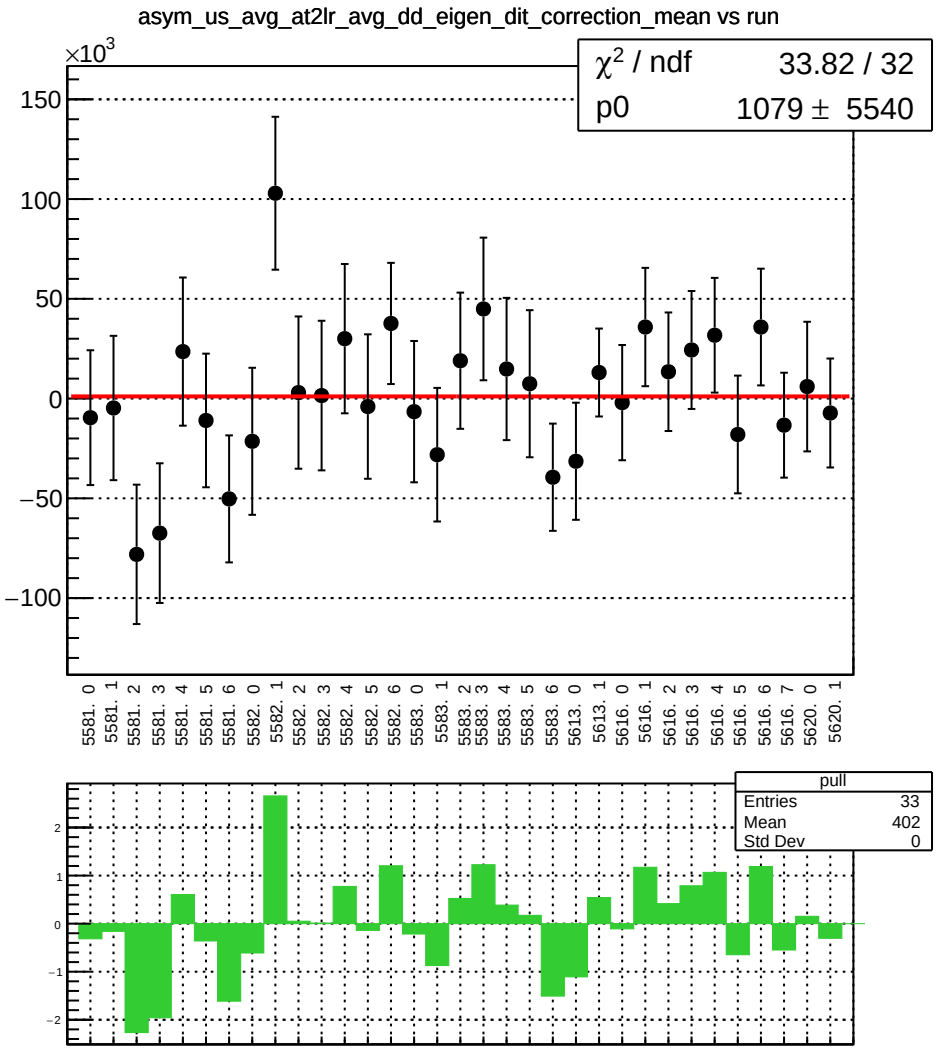

pull1D
Entries 33
Mean 0.006231
Std Dev 1.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

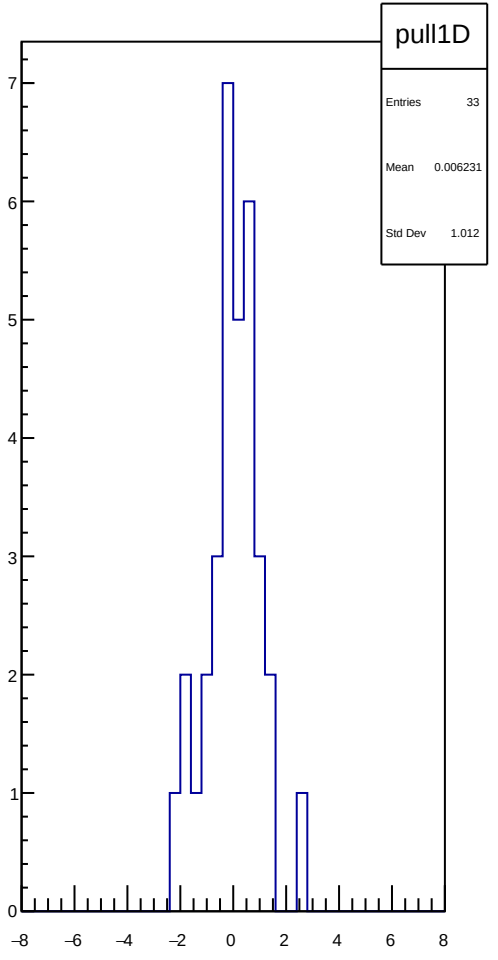

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 5967 / 32
p0 3148 ± 3.917
3600
3400
3200
3000
2800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

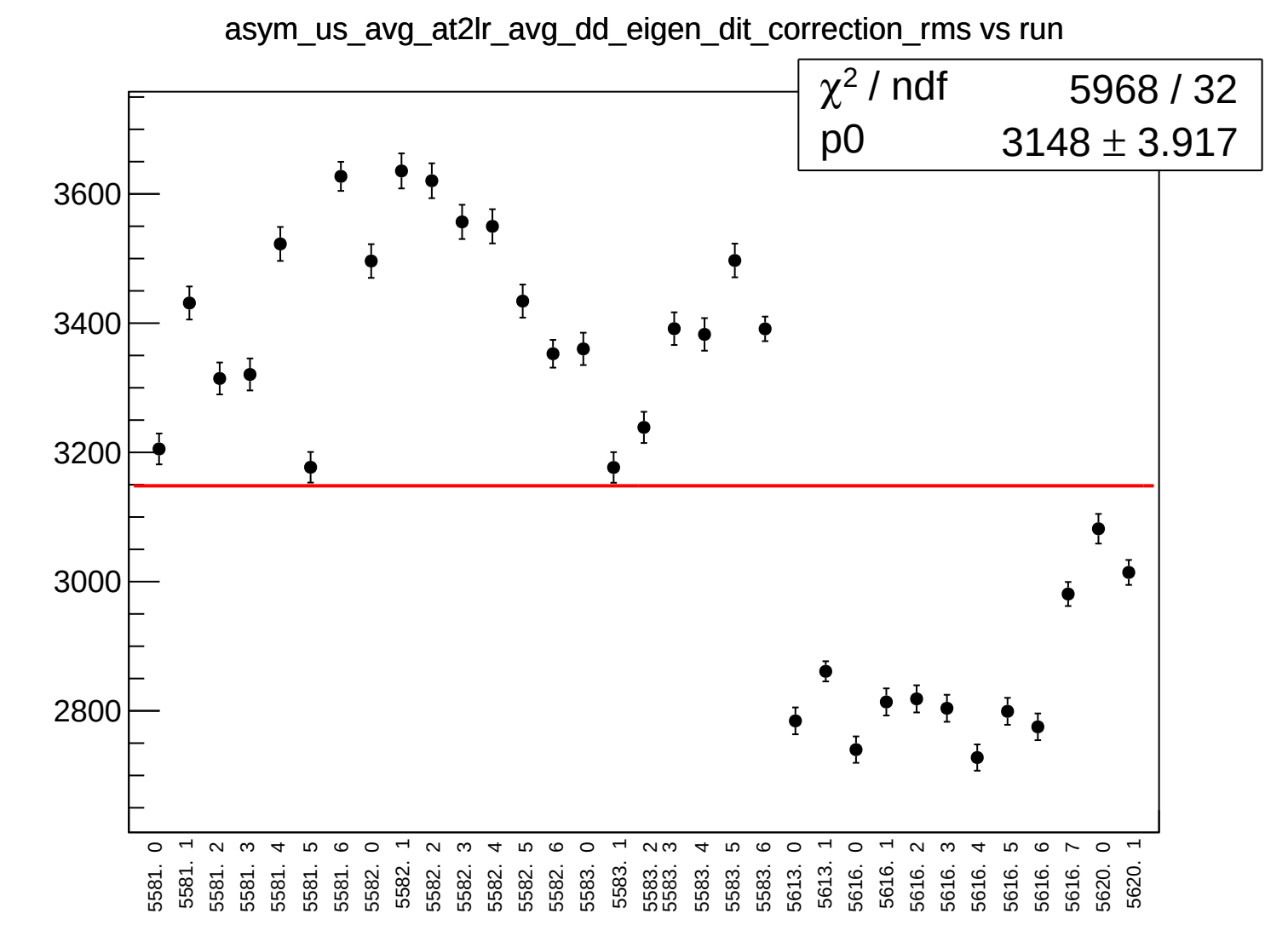

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 19.15 / 21
p0 2202 ± 2480
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 89.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

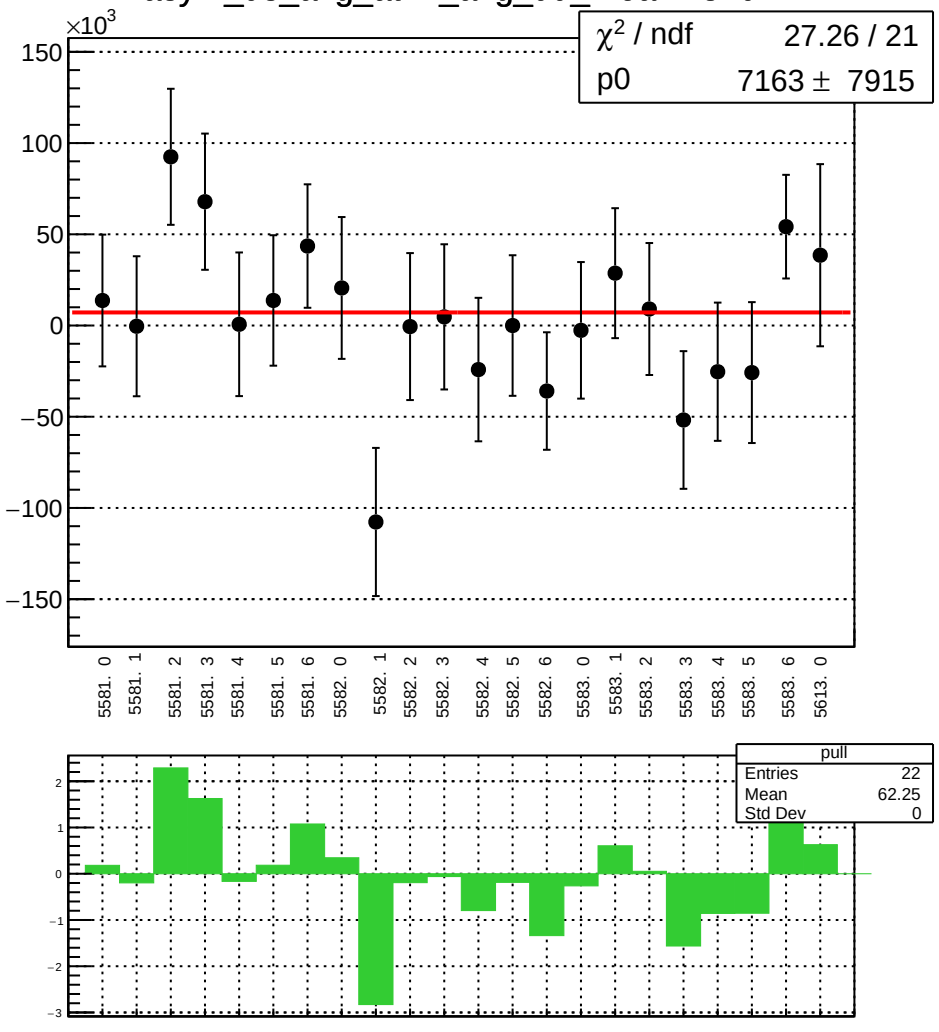

pull1D
Entries 22
Mean −0.008281
Std Dev 0.9329
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

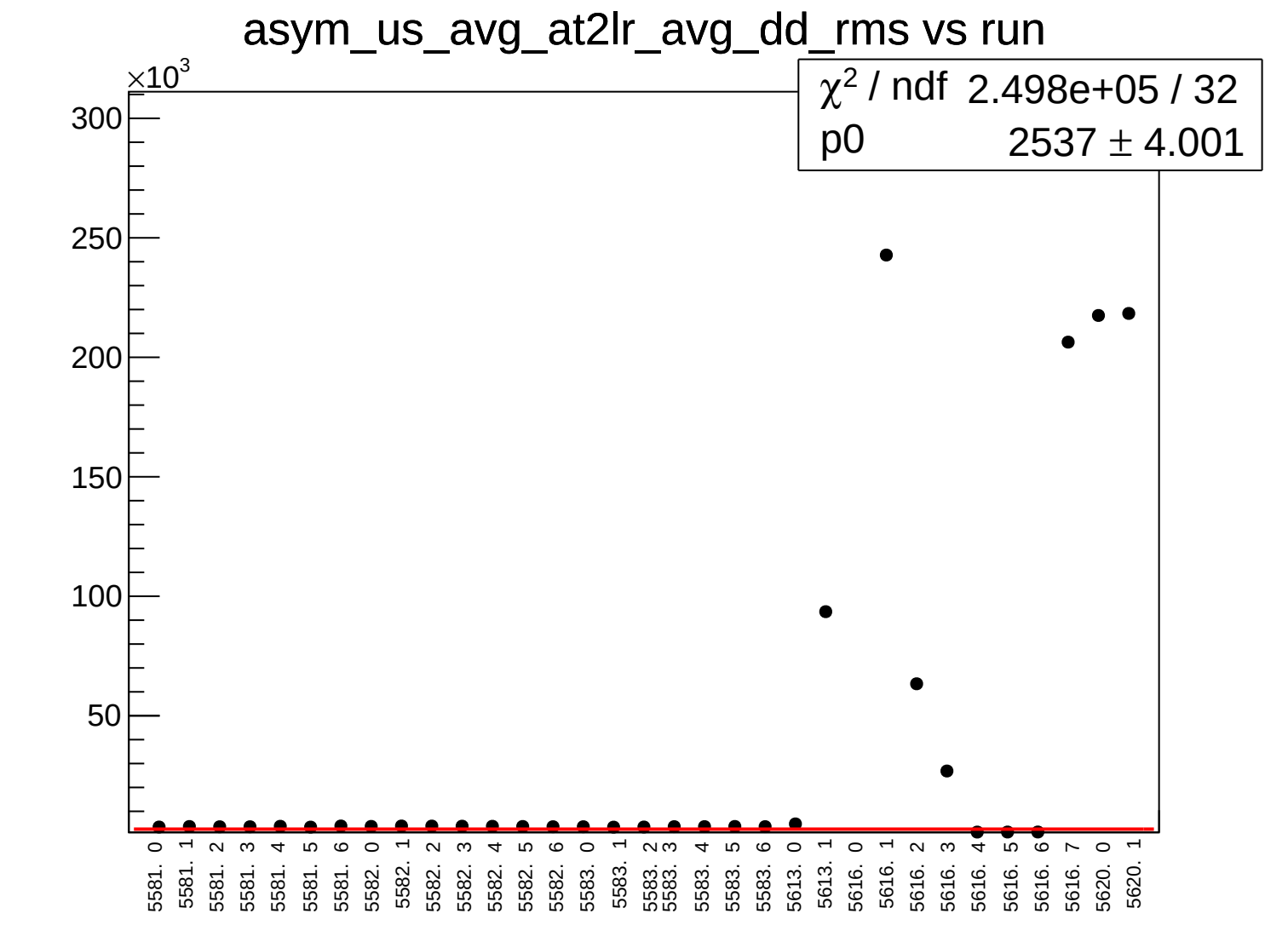

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
×10^3
χ^2 / ndf 2.007e+05 / 32
p0 1171 ± 1.744
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

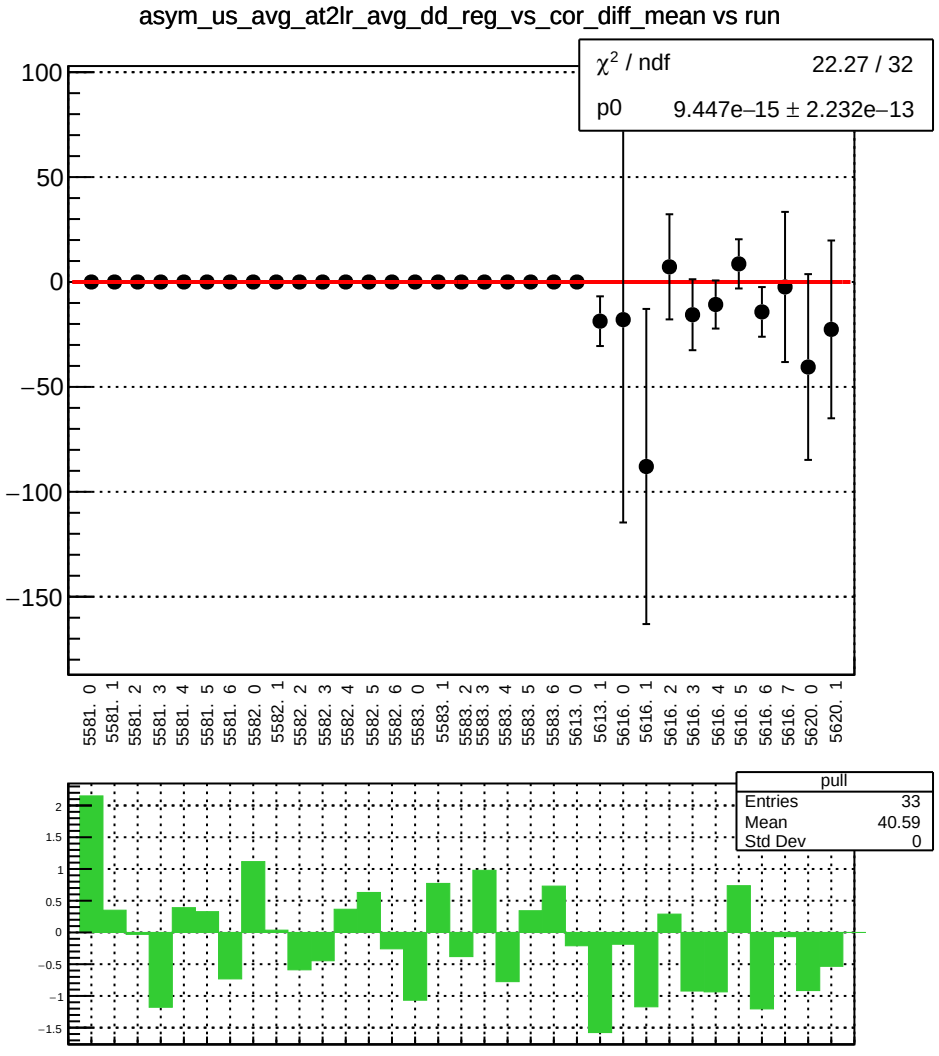

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 33.82 / 32
p0 1079 ± 5540
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 402
Std Dev 0
2
1
0
−1
−2

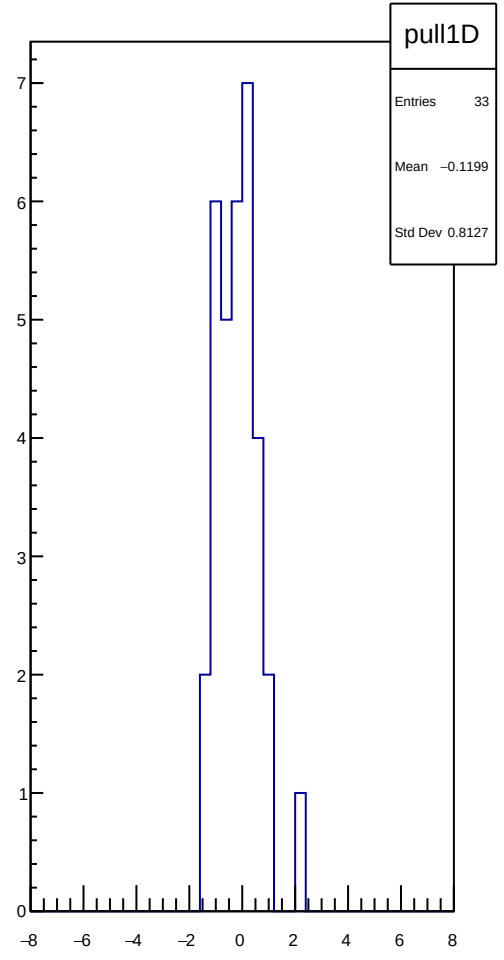

pull1D
Entries 33
Mean 0.006231
Std Dev 1.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

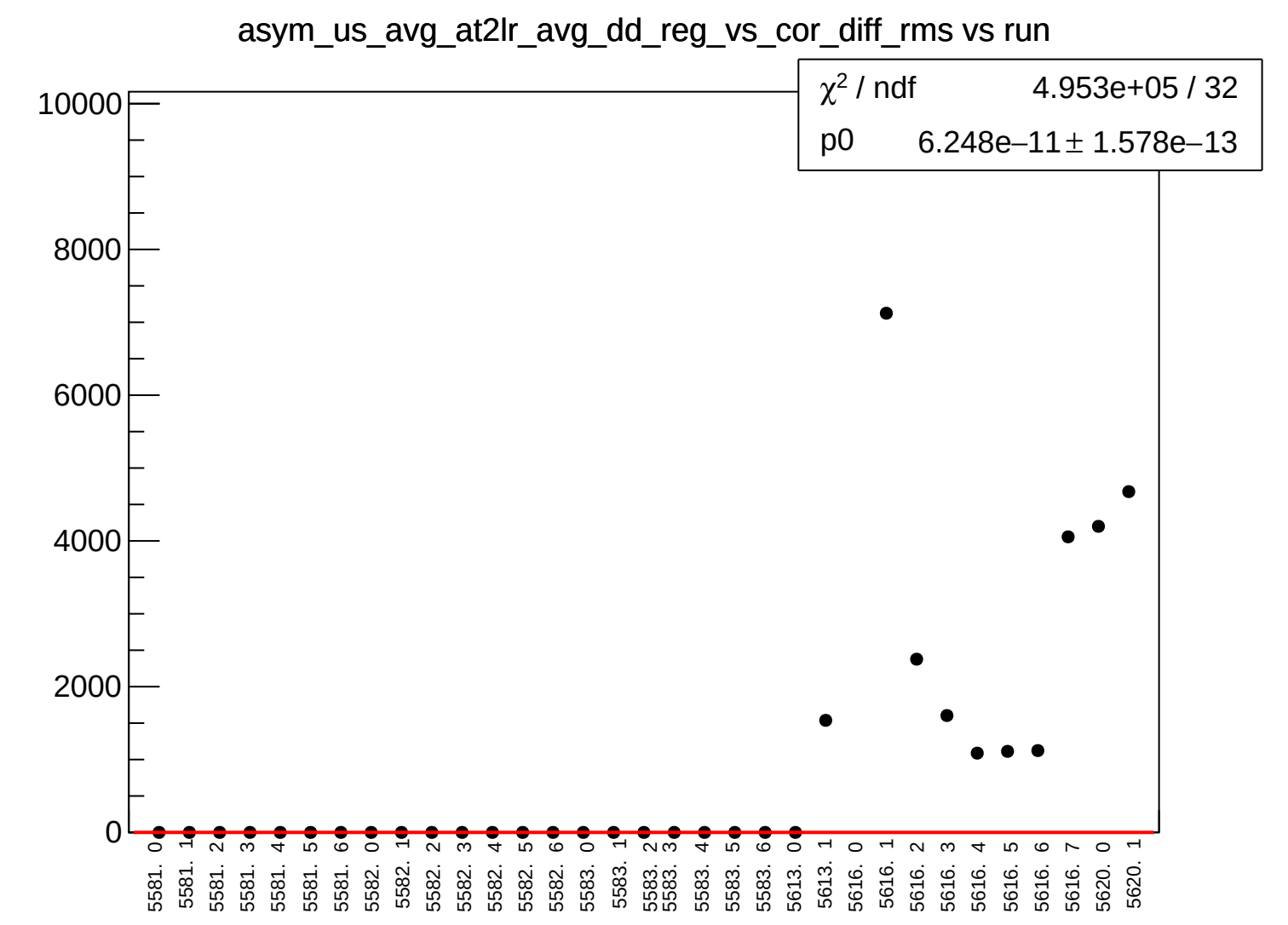

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5968 / 32
p0 3148 ± 3.917
3600
3400
3200
3000
2800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

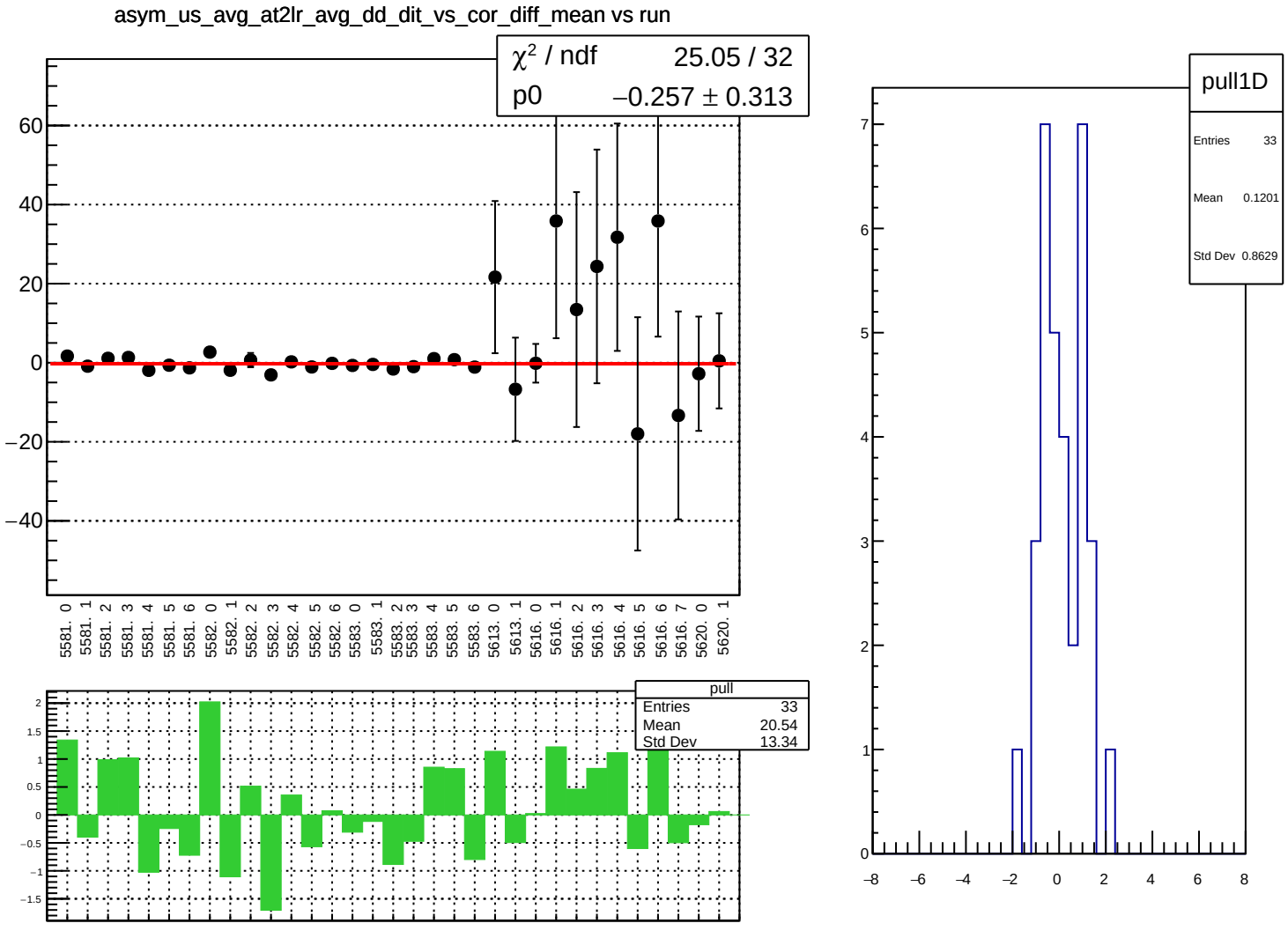

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 27.26 / 21
p0 7163 ± 7915
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 62.25
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 22
Mean −0.02991
Std Dev 1.113
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

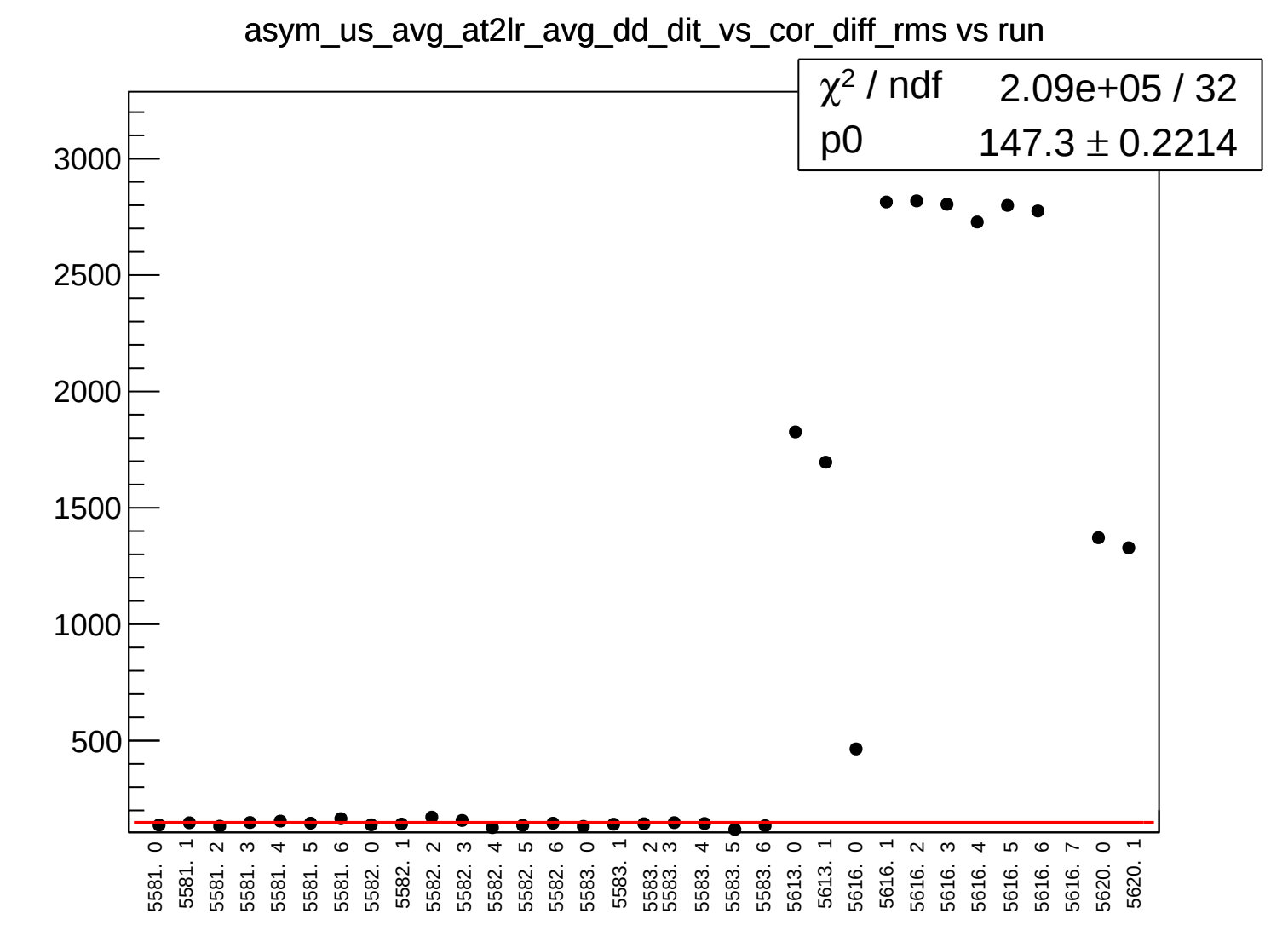

asym_us_avg_at2lr_avg_dd_rms vs run
×10^3
χ^2 / ndf 2.498e+05 / 32
p0 2537 ± 4.001
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

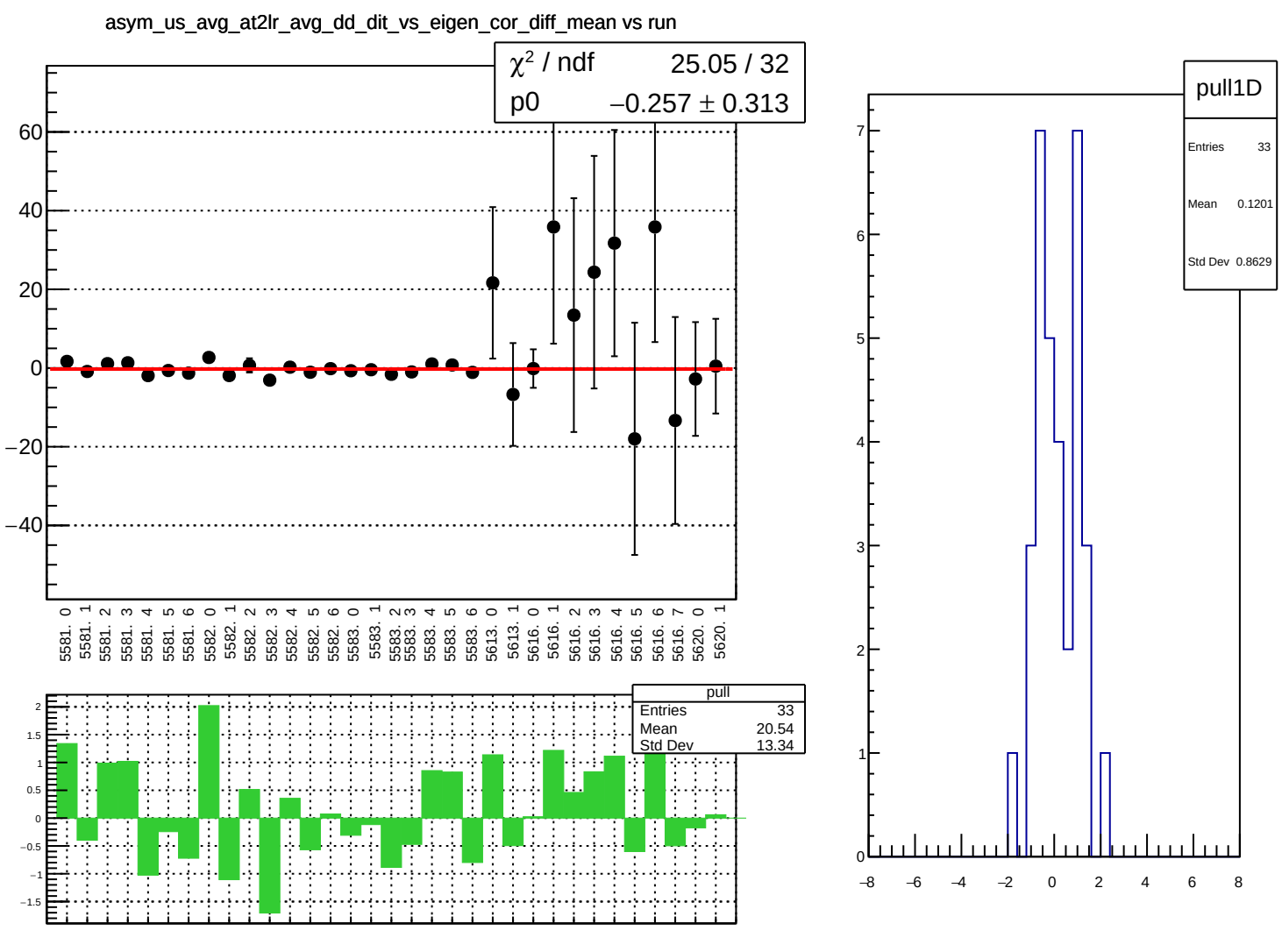

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 22.27 / 32
p0 9.447e−15 ± 2.232e−13
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

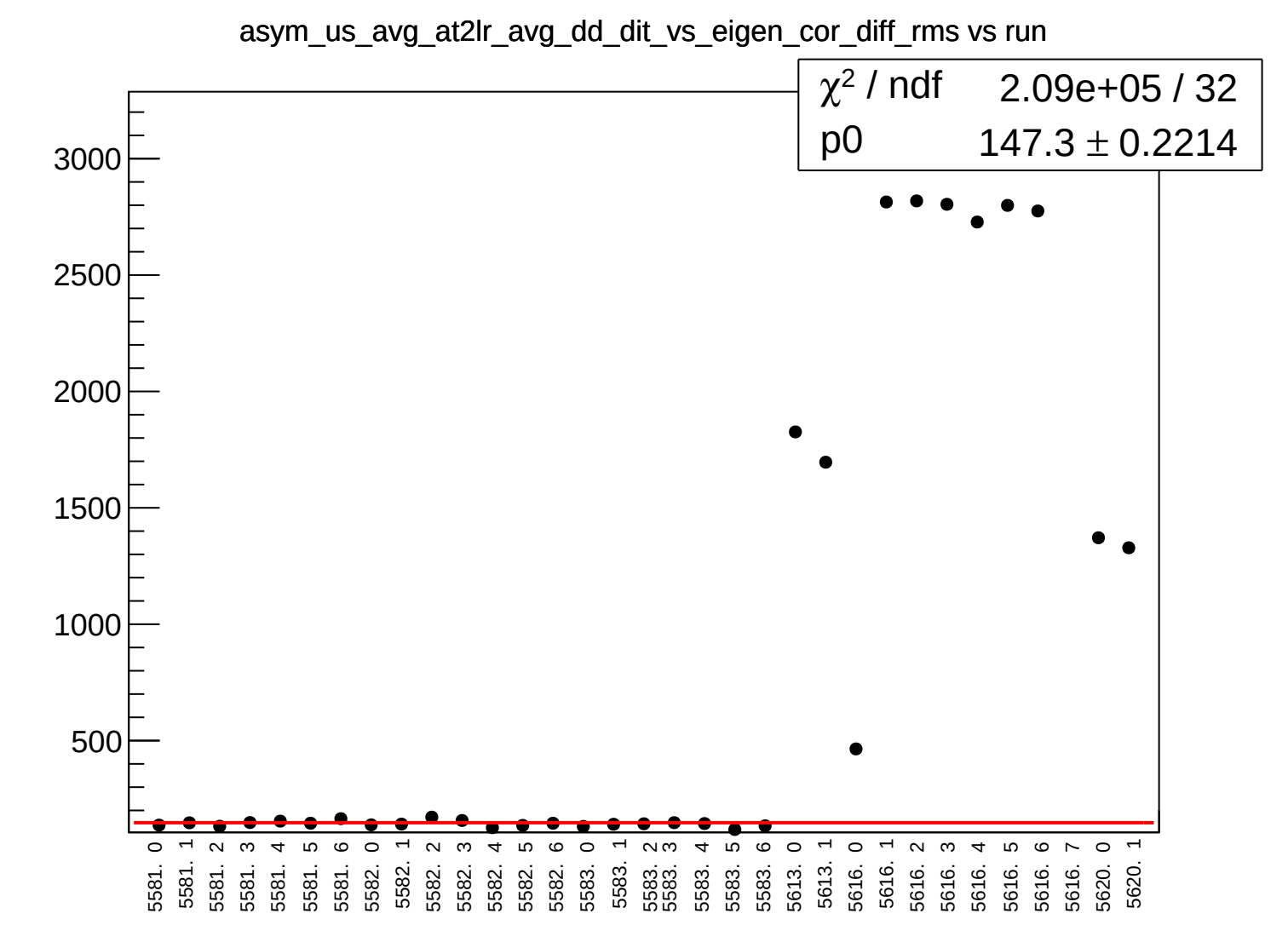

pull1D
Entries 33
Mean −0.1199
Std Dev 0.8127
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

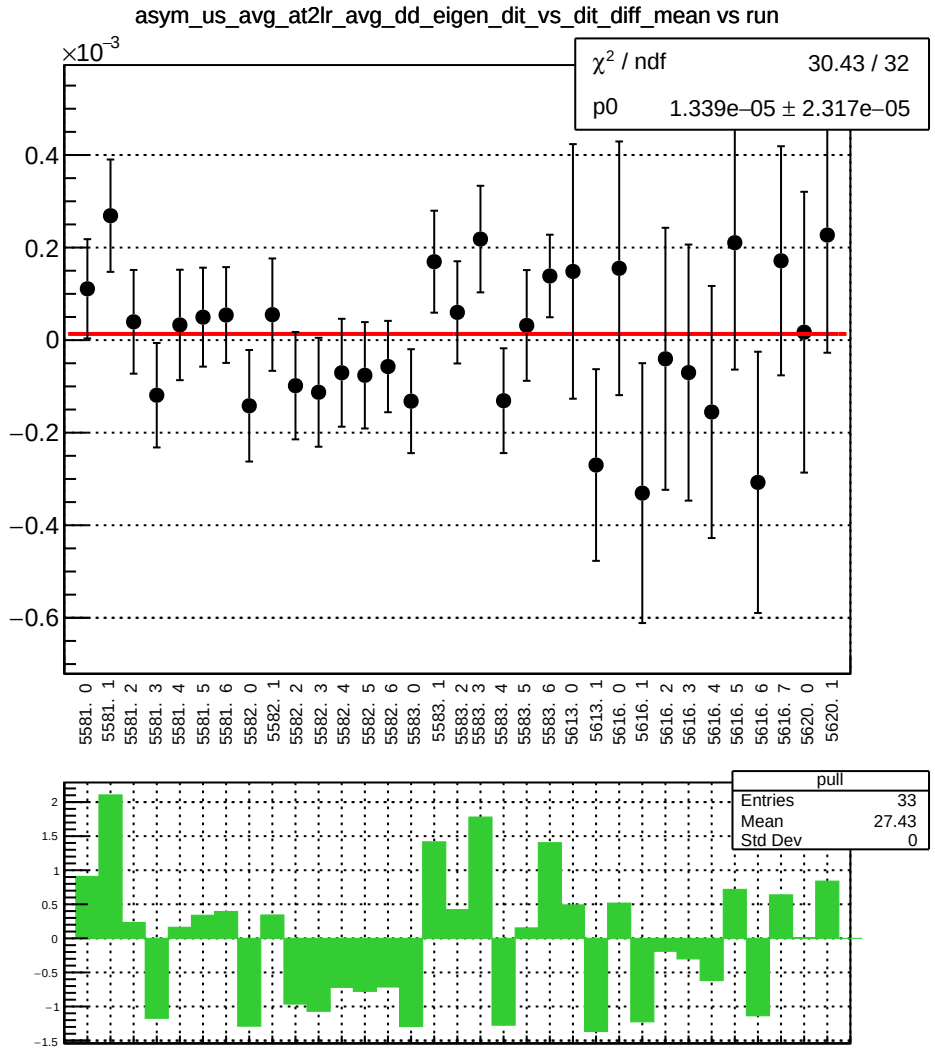

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.953e+05 / 32
p0 6.248e−11 ± 1.578e−13
10000
8000
6000
4000
2000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

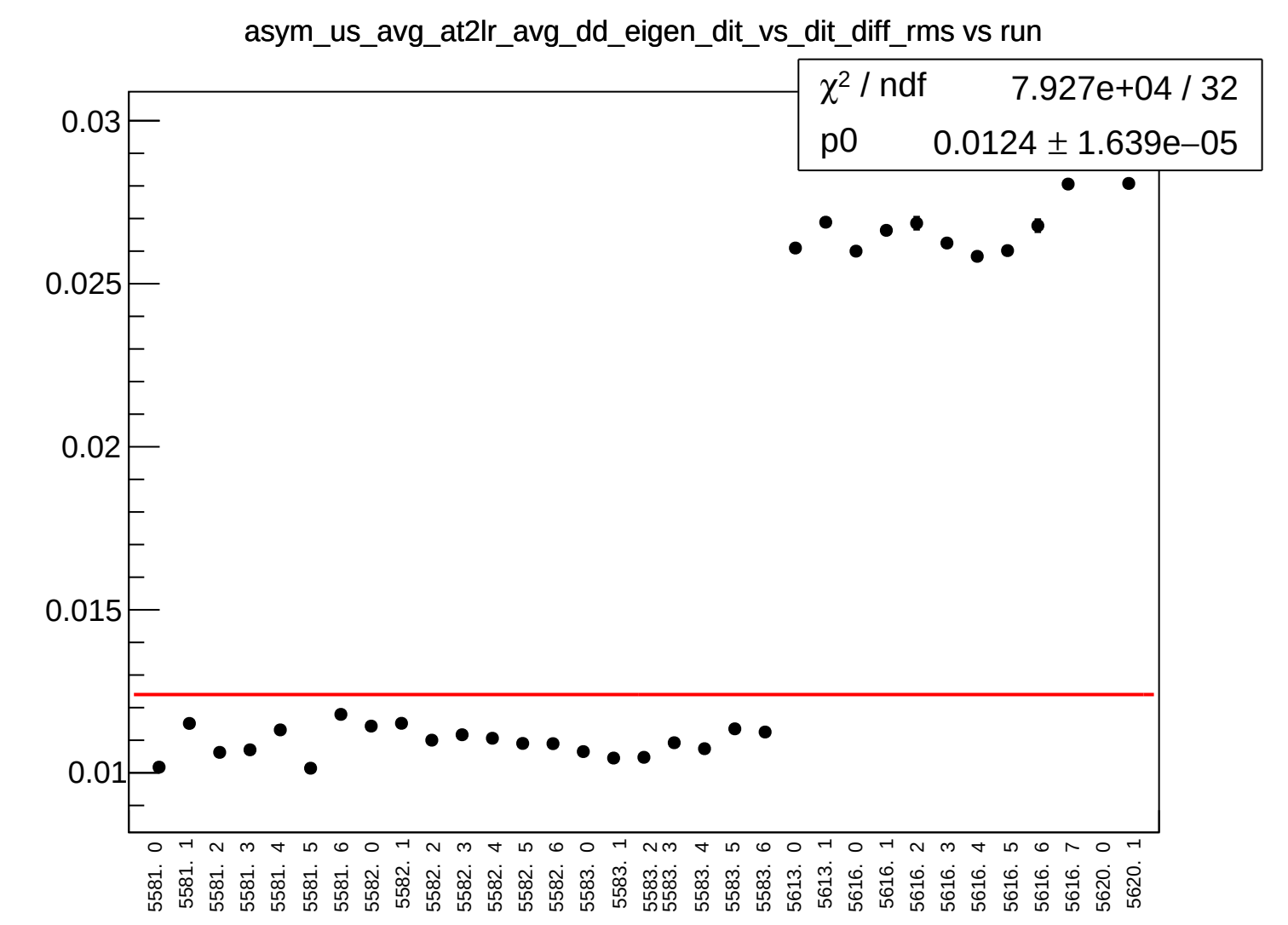

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 25.05 / 32
p0 −0.257 ± 0.313
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.54
Std Dev 13.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1201
Std Dev 0.8629
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

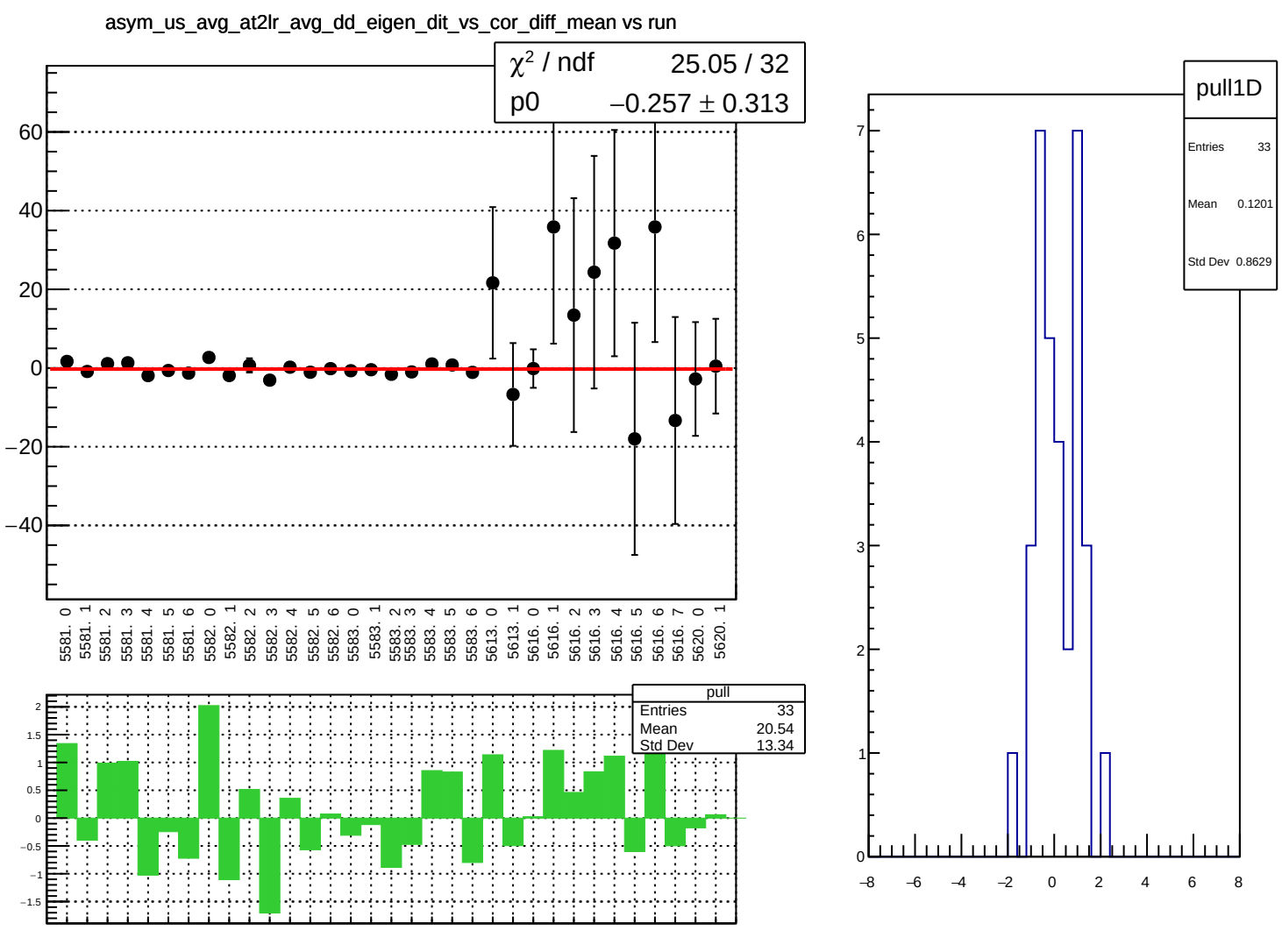

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.09e+05 / 32
p0 147.3 ± 0.2214
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

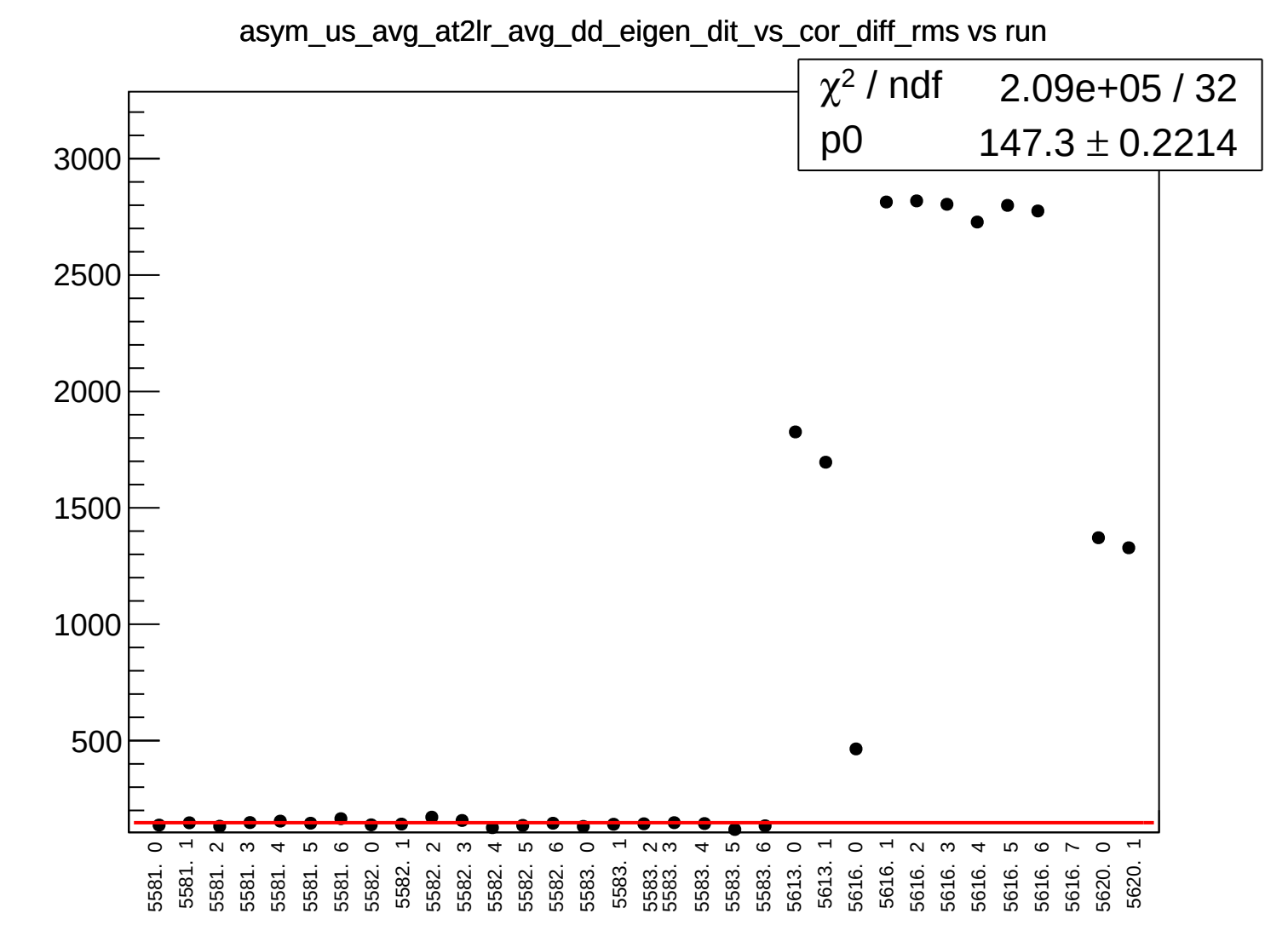

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.05 / 32
p0 −0.257 ± 0.313
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.54
Std Dev 13.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1201
Std Dev 0.8629
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

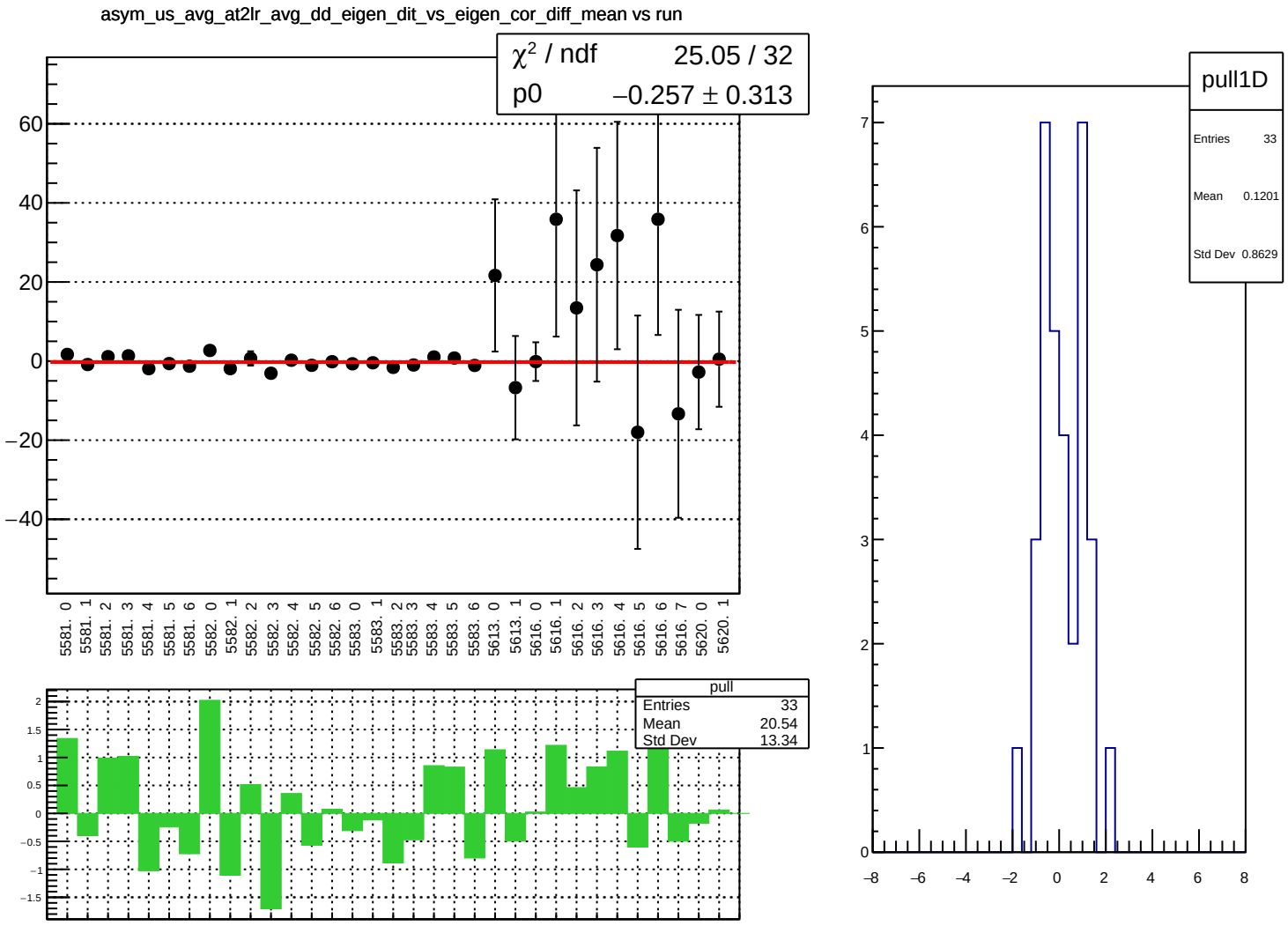

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.09e+05 / 32
p0 147.3 ± 0.2214
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

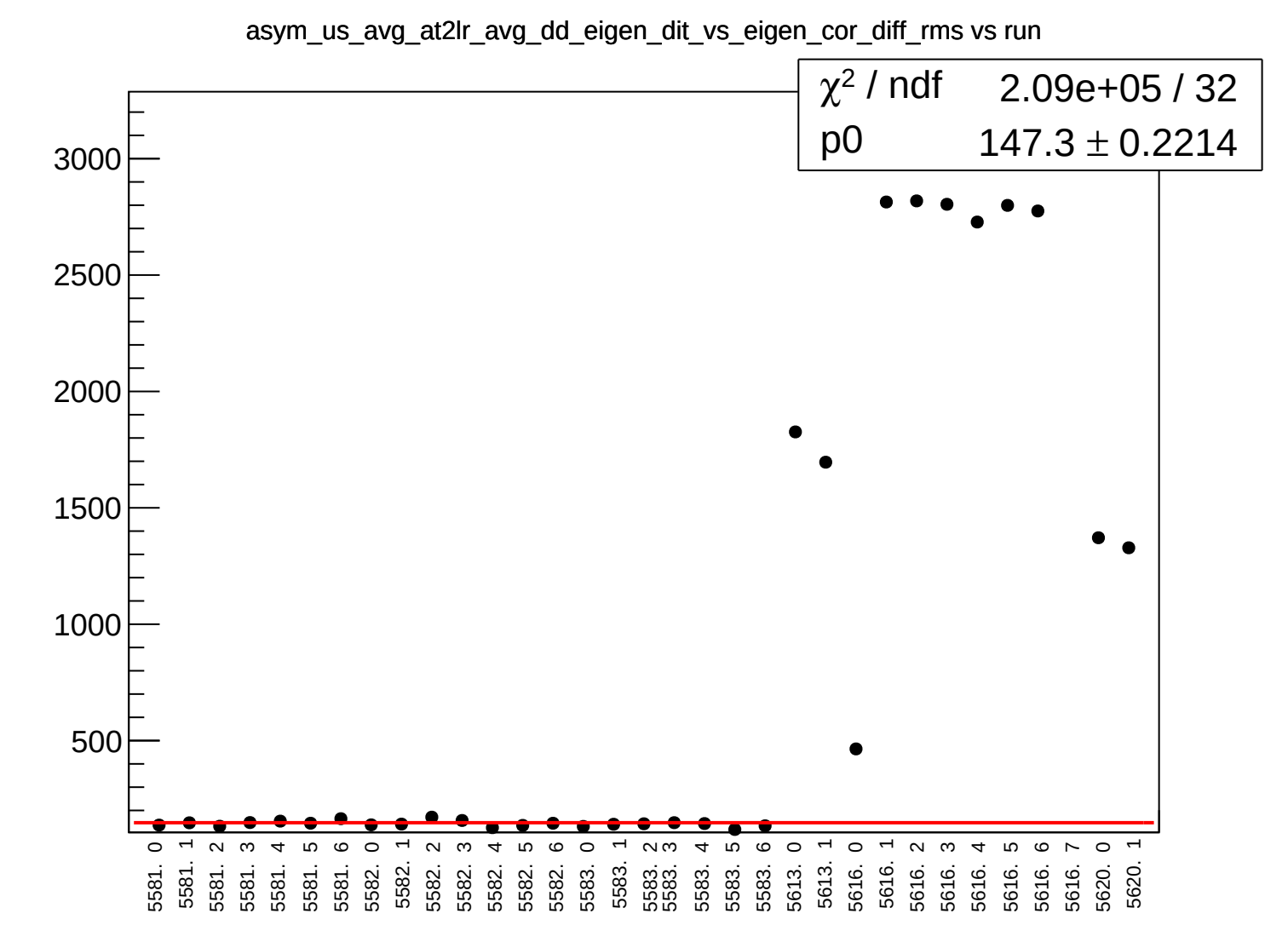

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.43 / 32
p0 1.339e−05 ± 2.317e−05
0.4
0.2
0
−0.2
−0.4
−0.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.03735
Std Dev 0.9596
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

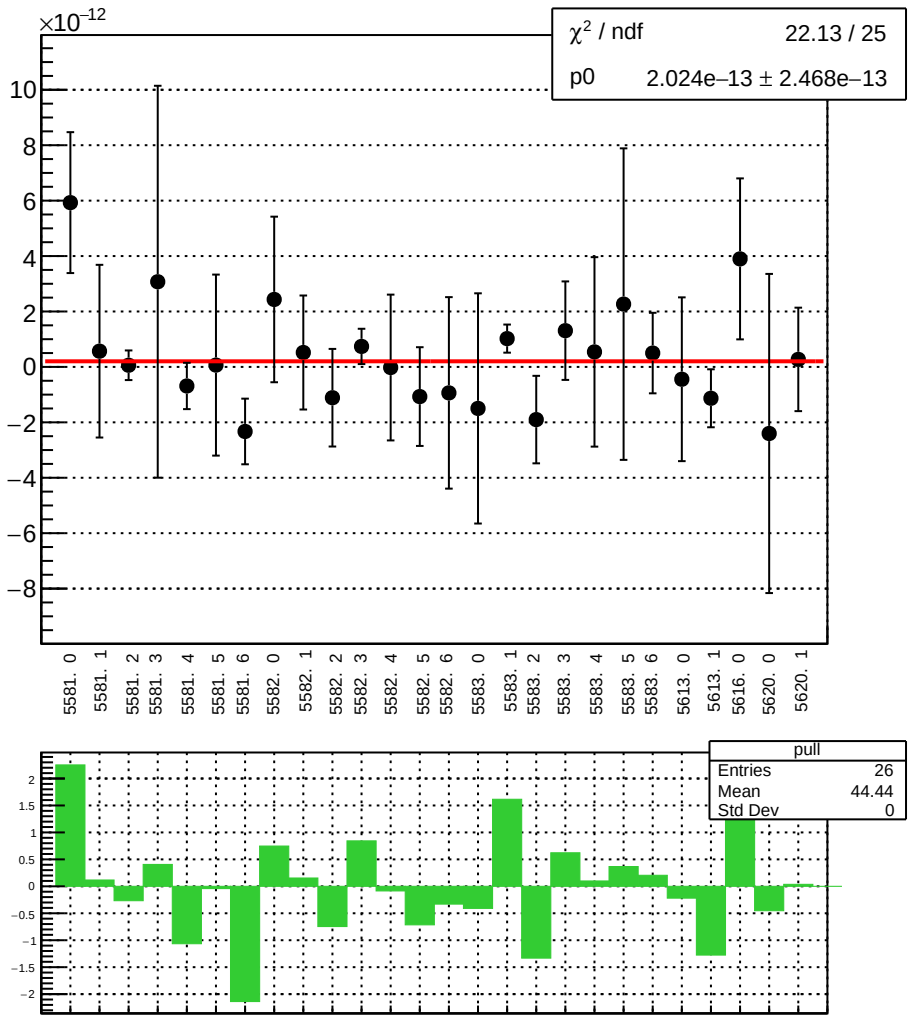

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.927e+04 / 32
p0 0.0124 ± 1.639e−05
0.03
0.025
0.02
0.015
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

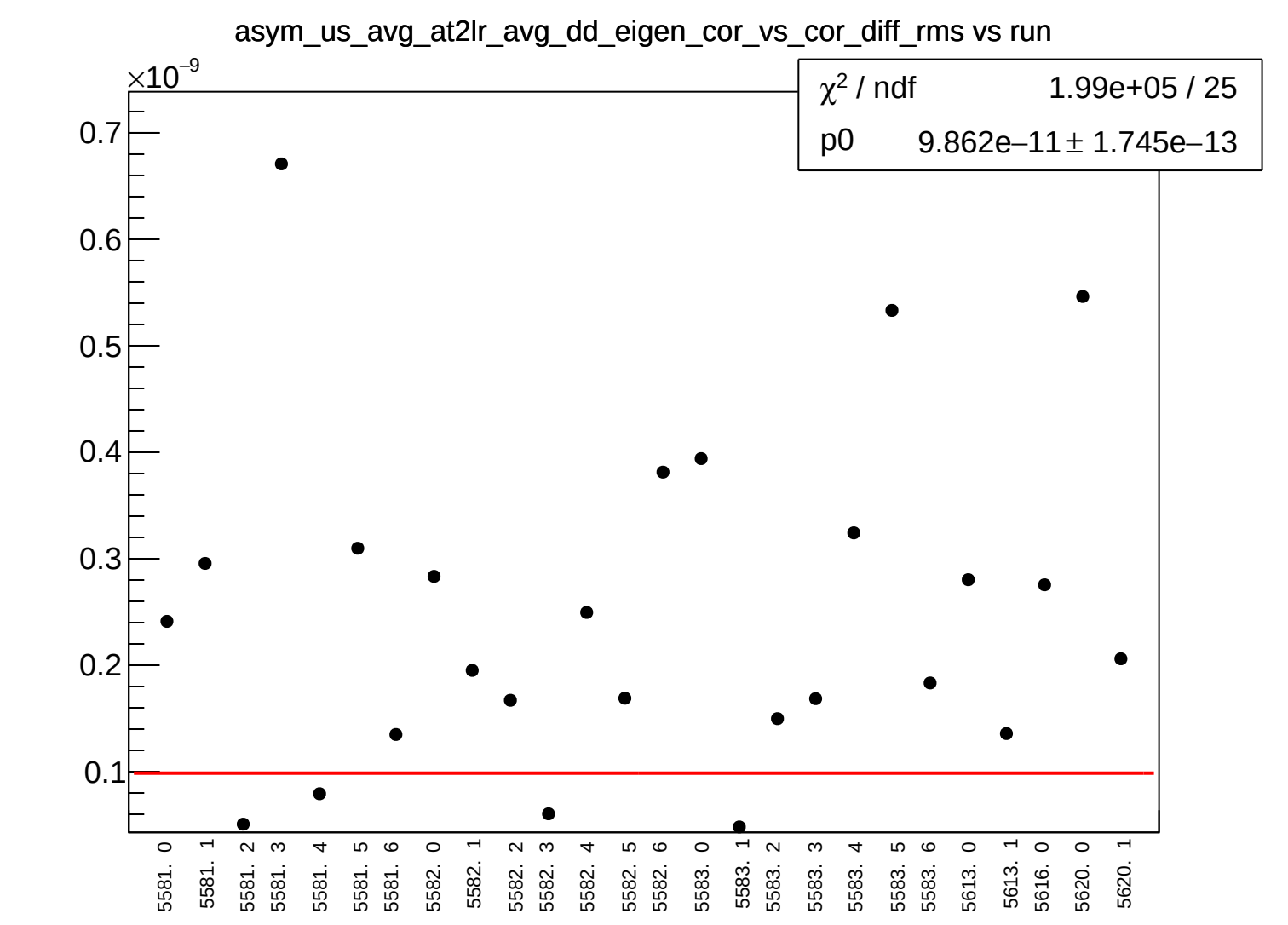

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.05 / 32
p0 −0.257 ± 0.313
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.54
Std Dev 13.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1201
Std Dev 0.8629
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

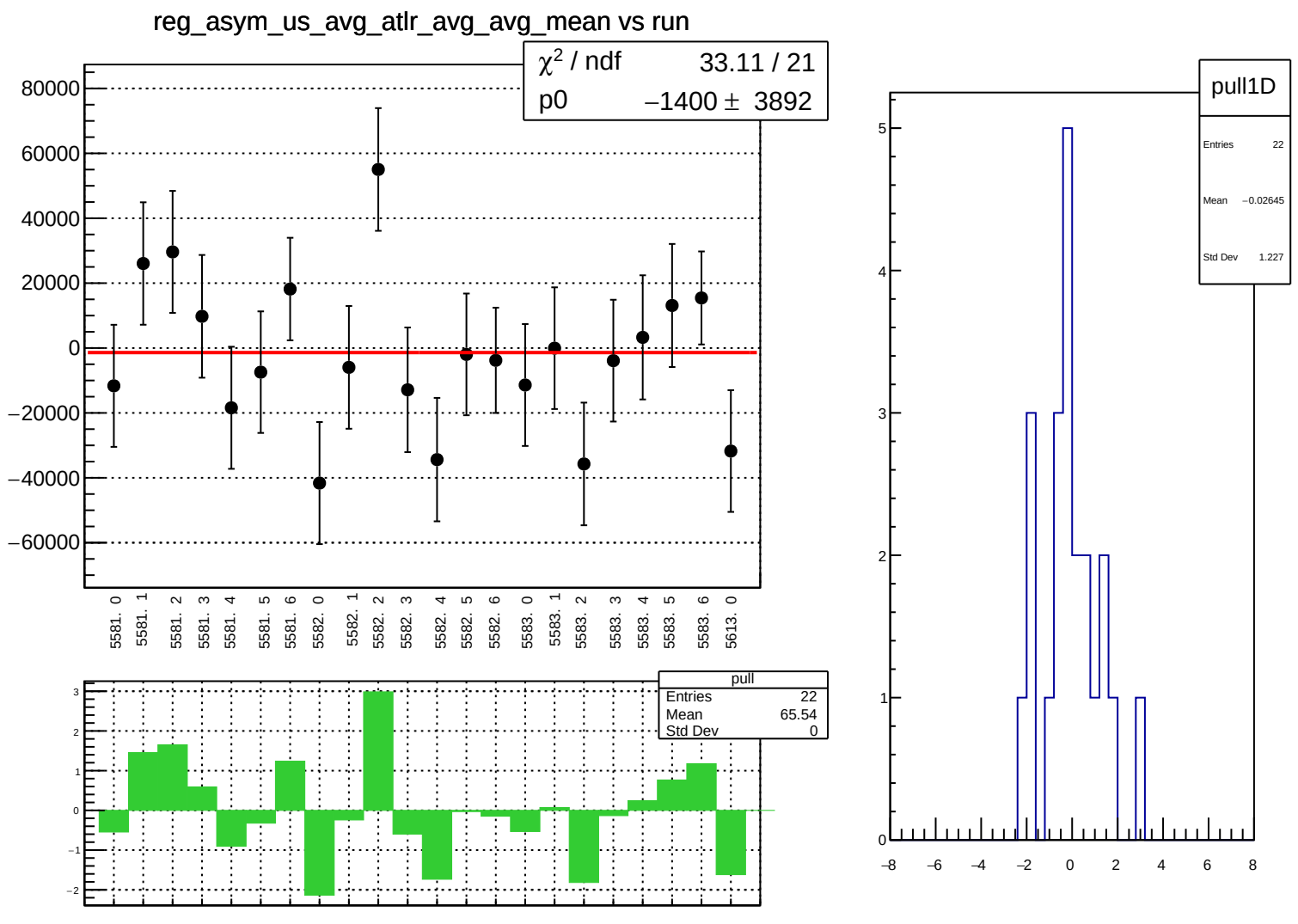

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.09e+05 / 32
p0 147.3 ± 0.2214
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

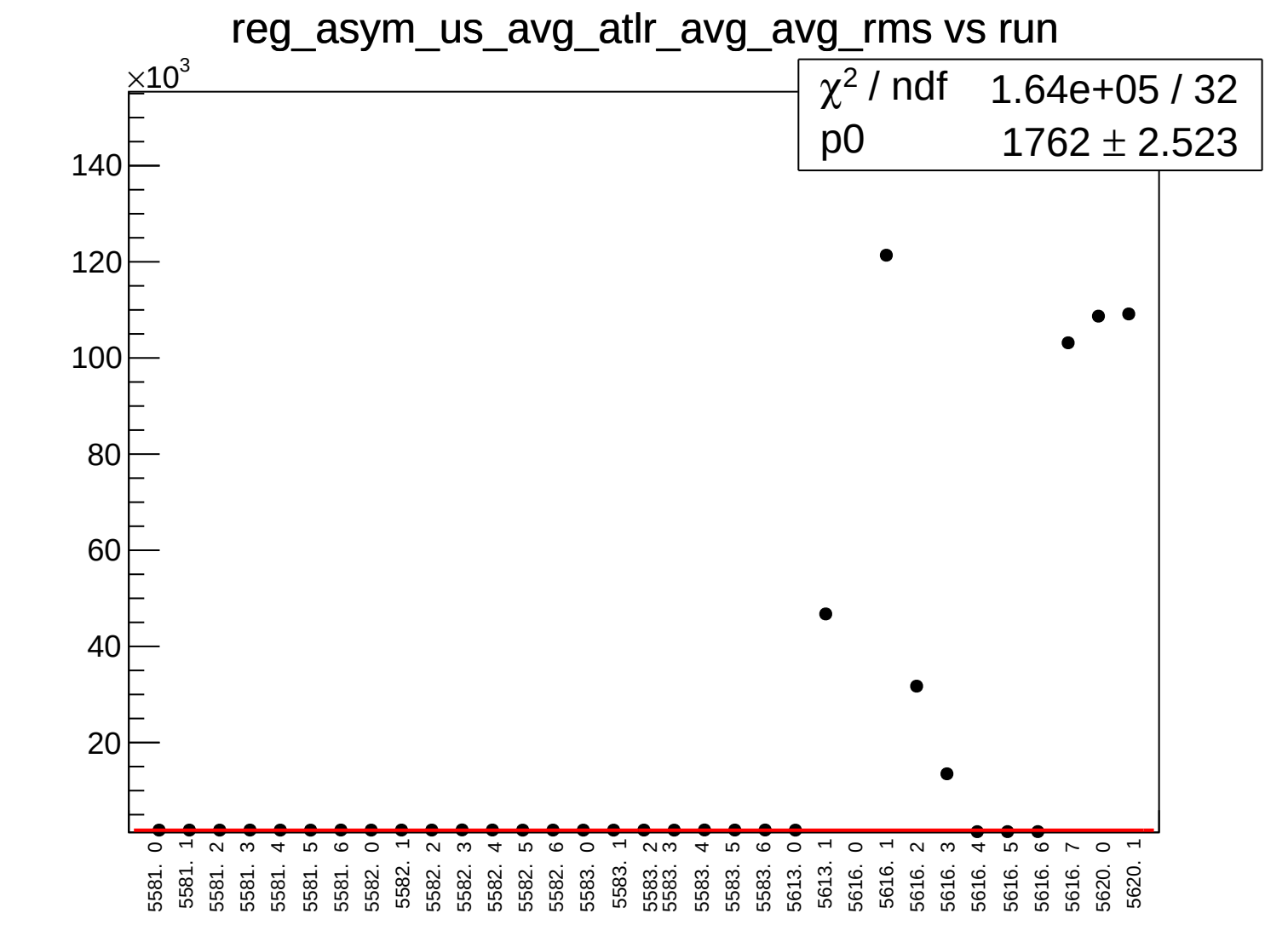

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.05 / 32
p0 −0.257 ± 0.313
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.54
Std Dev 13.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1201
Std Dev 0.8629
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

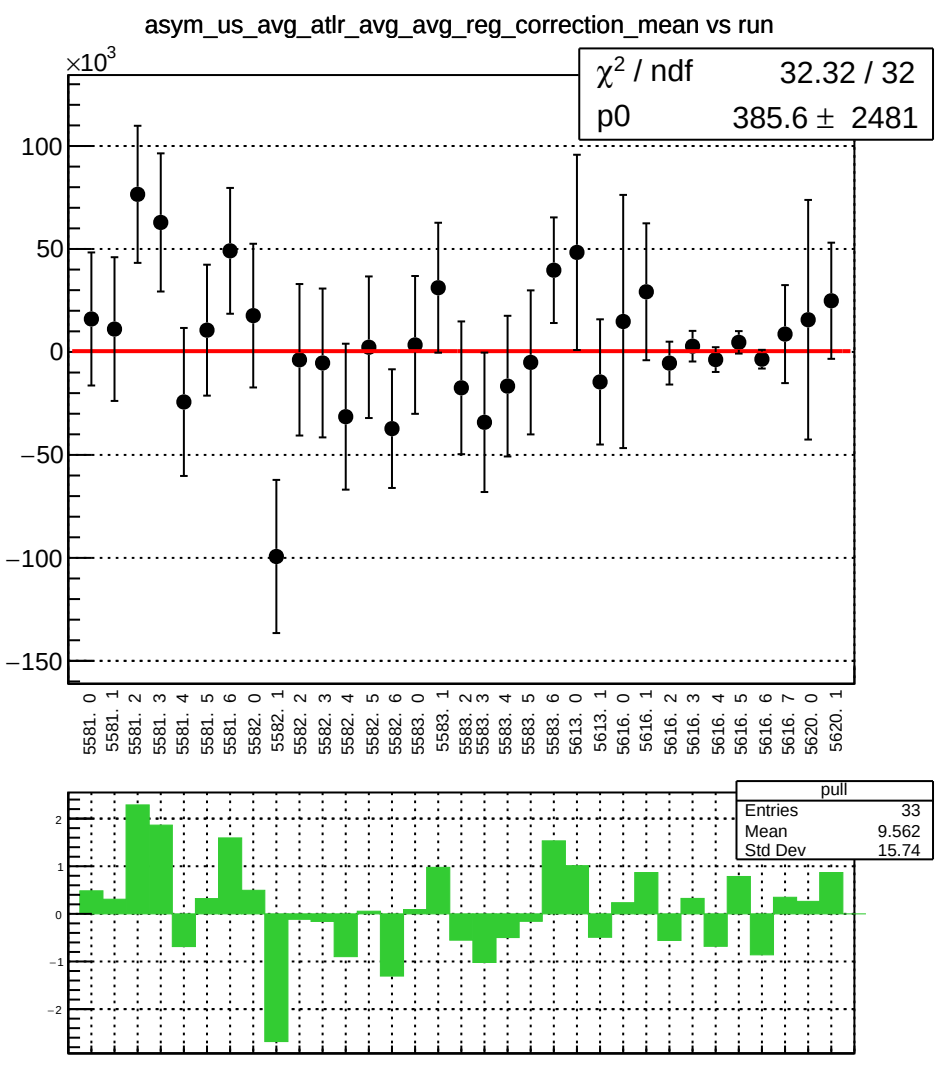

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.09e+05 / 32
p0 147.3 ± 0.2214
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

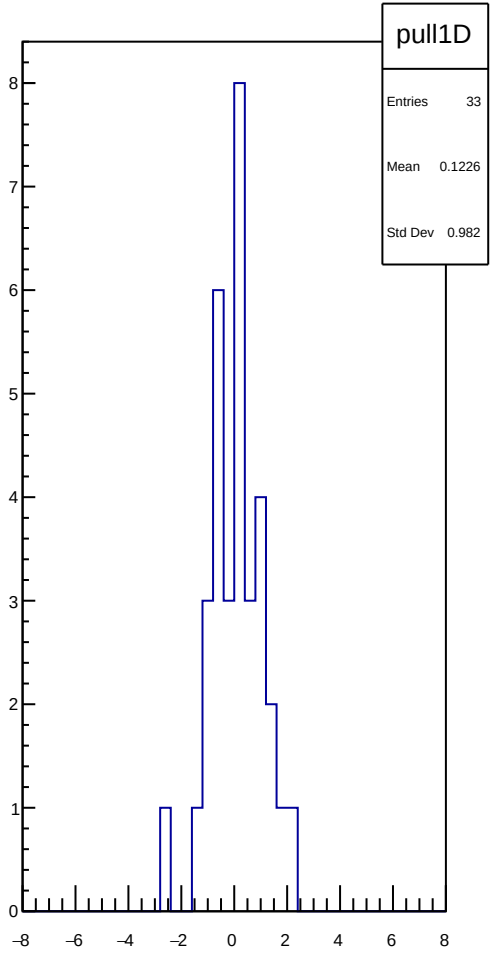

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 22.13 / 25
p0 2.024e−13 ± 2.468e−13
10
8
6
4
2
0
−2
−4
−6
−8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 44.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.01298
Std Dev 0.9225
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

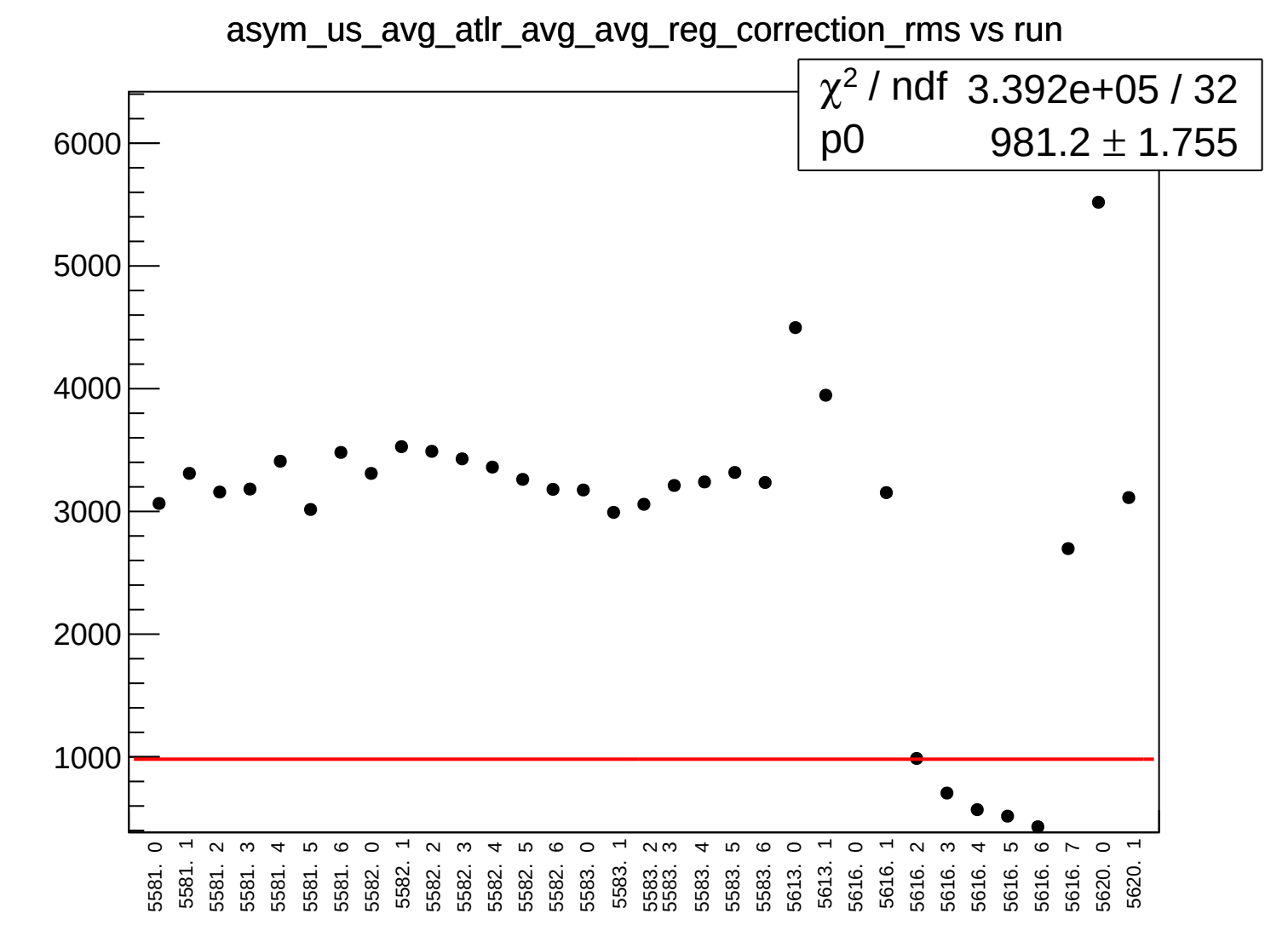

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.99e+05 / 25
p0 9.862e−11 ± 1.745e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

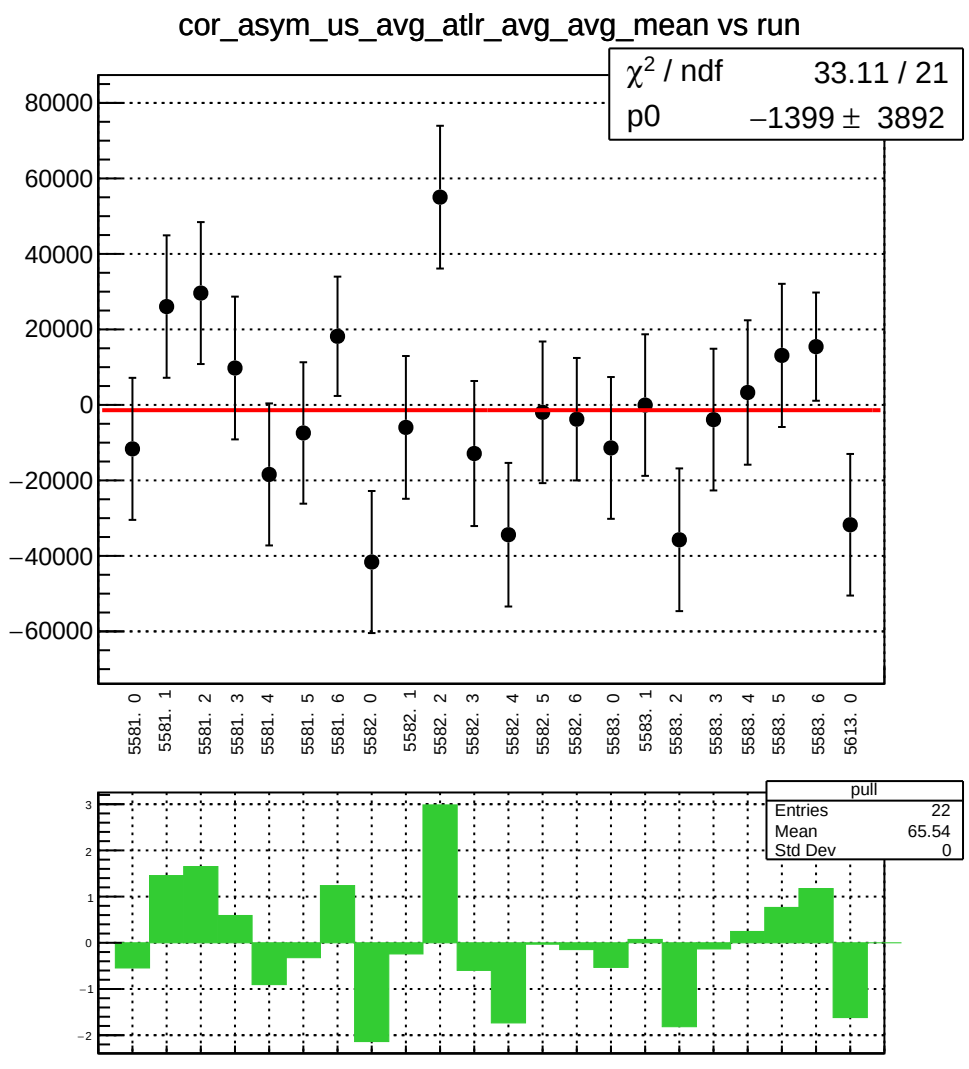

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 33.11 / 21
p0 −1400 ± 3892
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 65.54
Std Dev 0
pull1D
Entries 22
Mean −0.02645
Std Dev 1.227

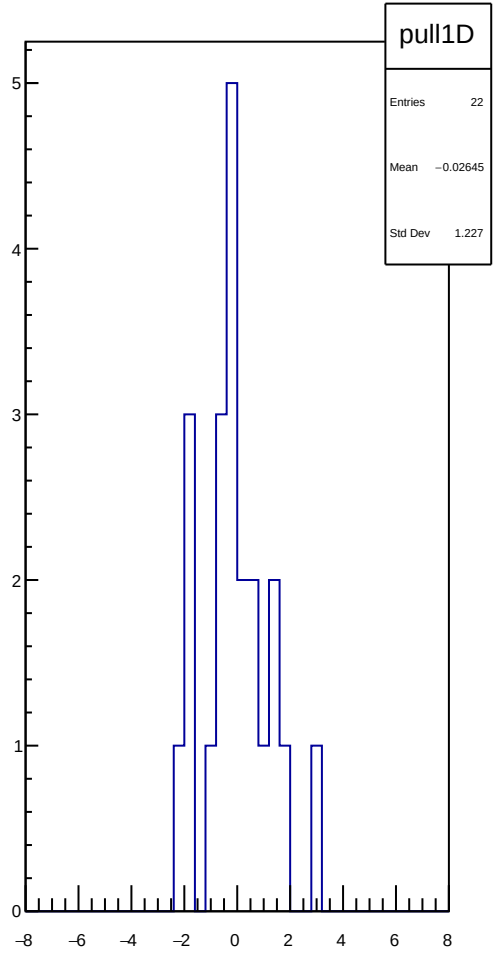

reg_asym_us_avg_atlr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.64e+05 / 32
p0 1762 ± 2.523
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

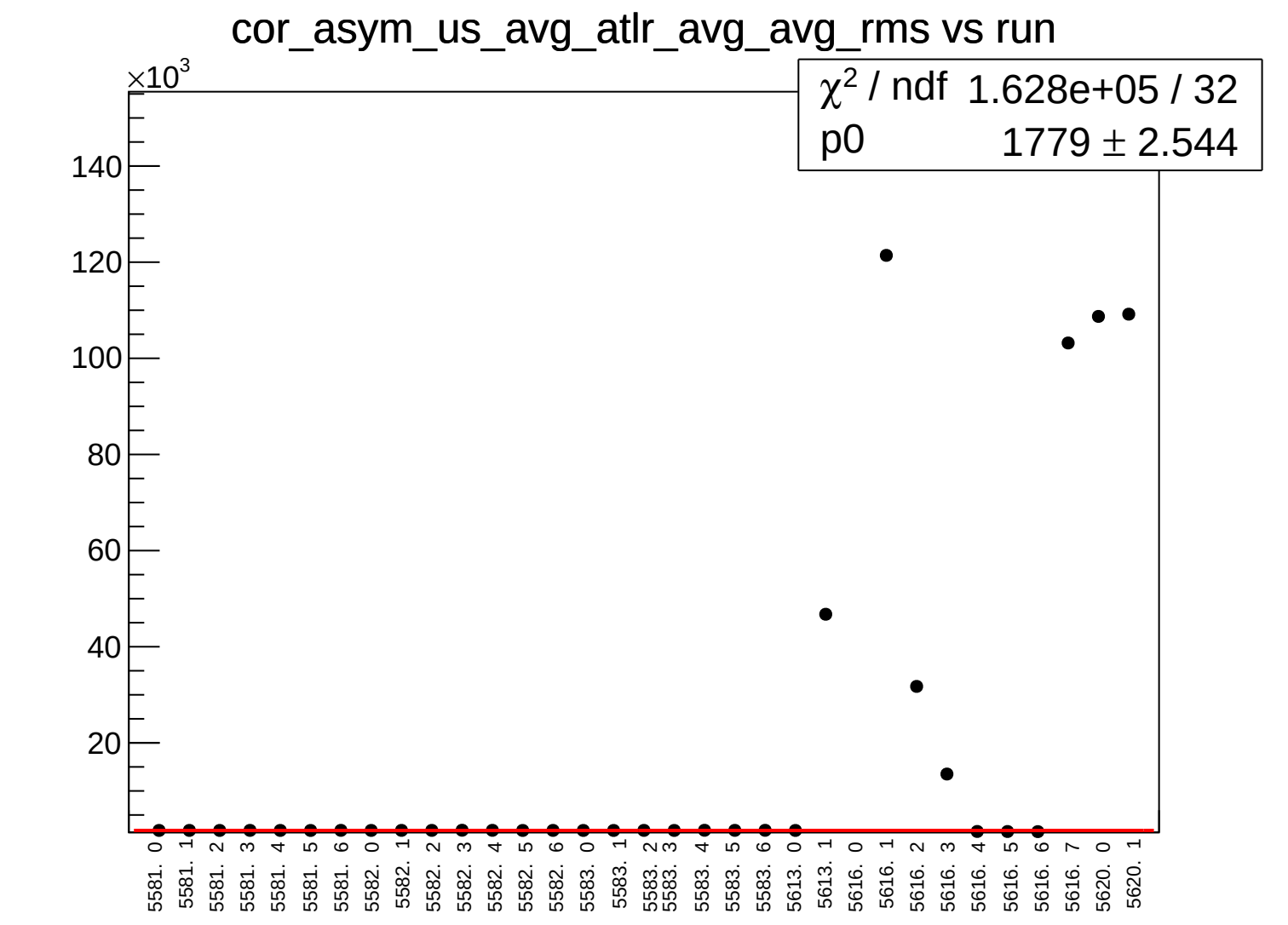

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 32.32 / 32
p0 385.6 ± 2481
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 9.562
Std Dev 15.74
2
1
0
−1
−2

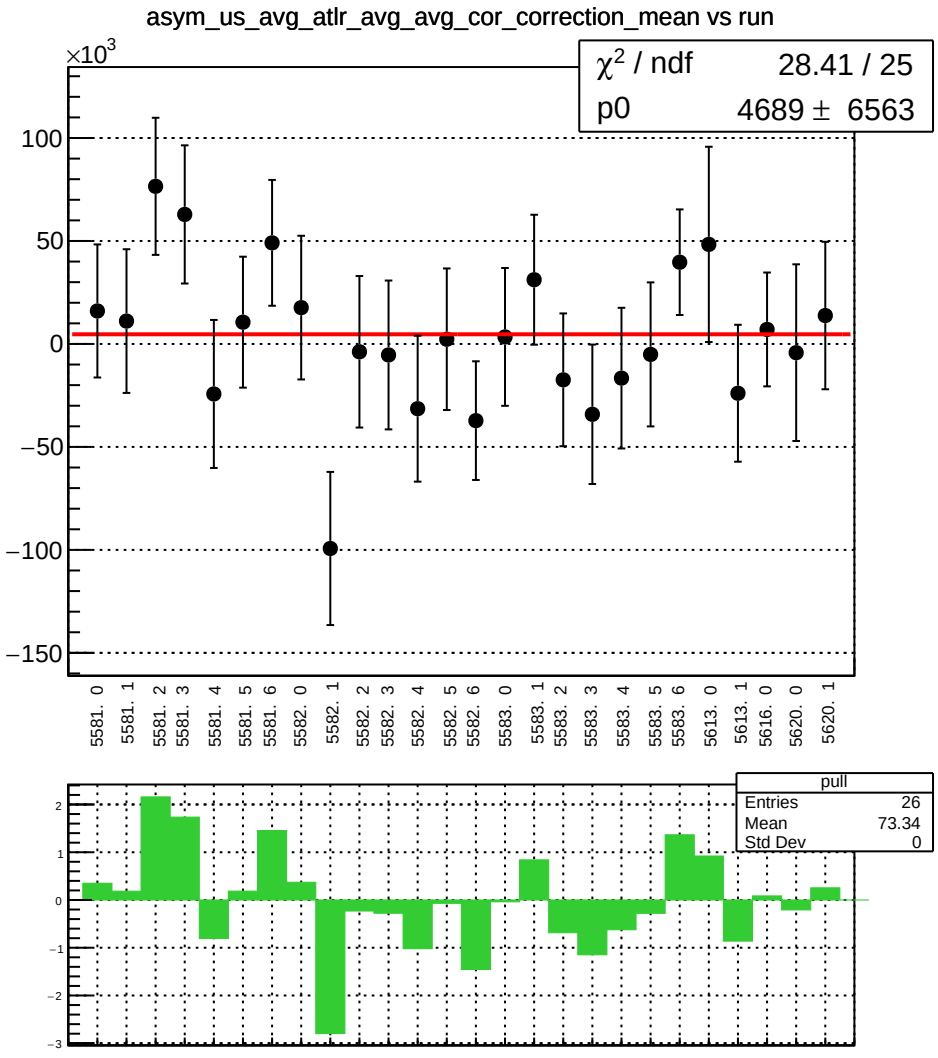

pull1D
Entries 33
Mean 0.1226
Std Dev 0.982
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

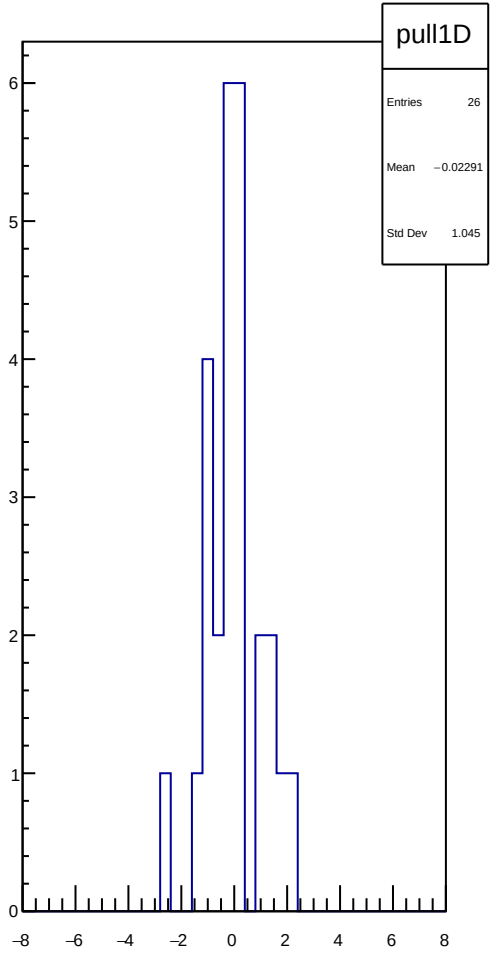

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.392e+05 / 32
p0 981.2 ± 1.755
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

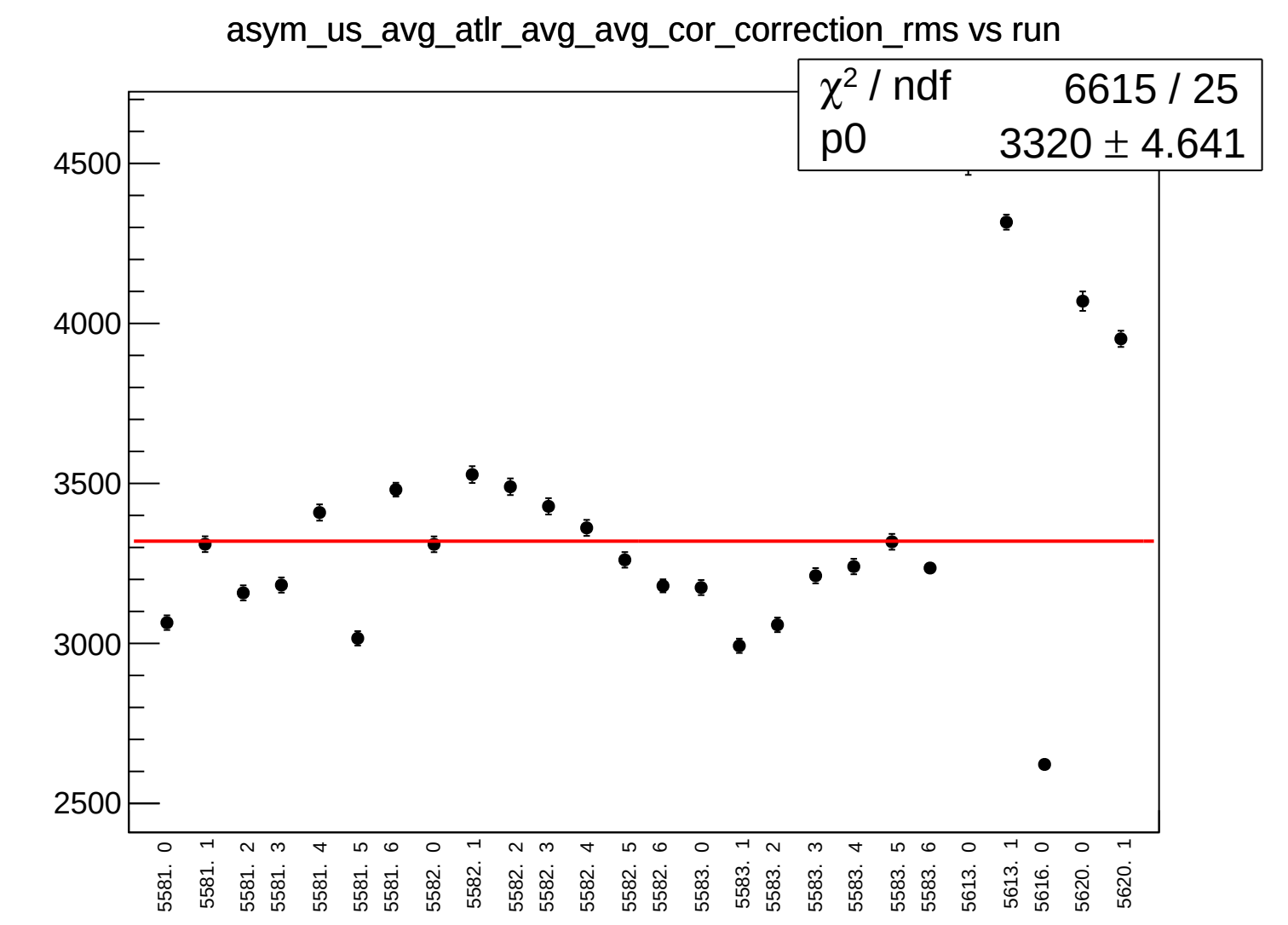

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 33.11 / 21
p0 −1399 ± 3892
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 65.54
Std Dev 0
3
2
1
0
−1
−2

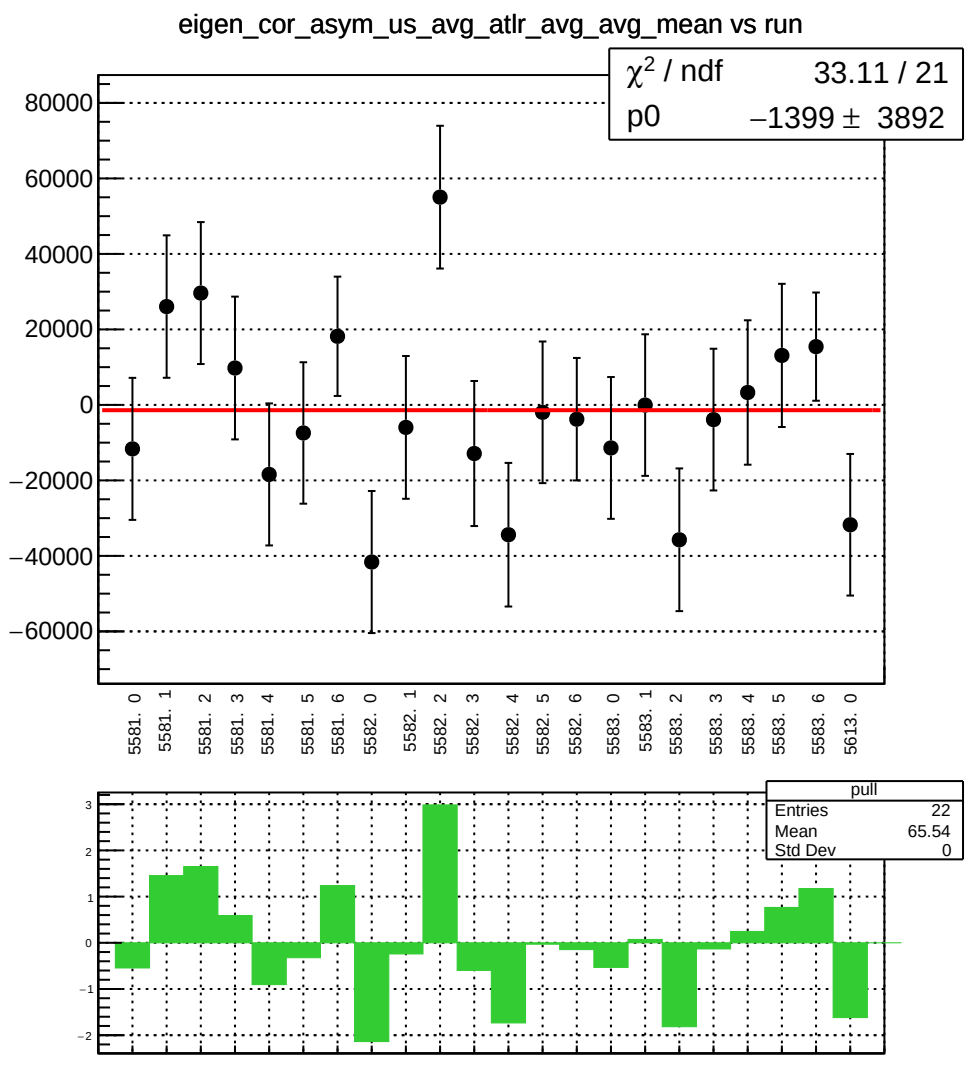

pull1D
Entries 22
Mean −0.02645
Std Dev 1.227
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

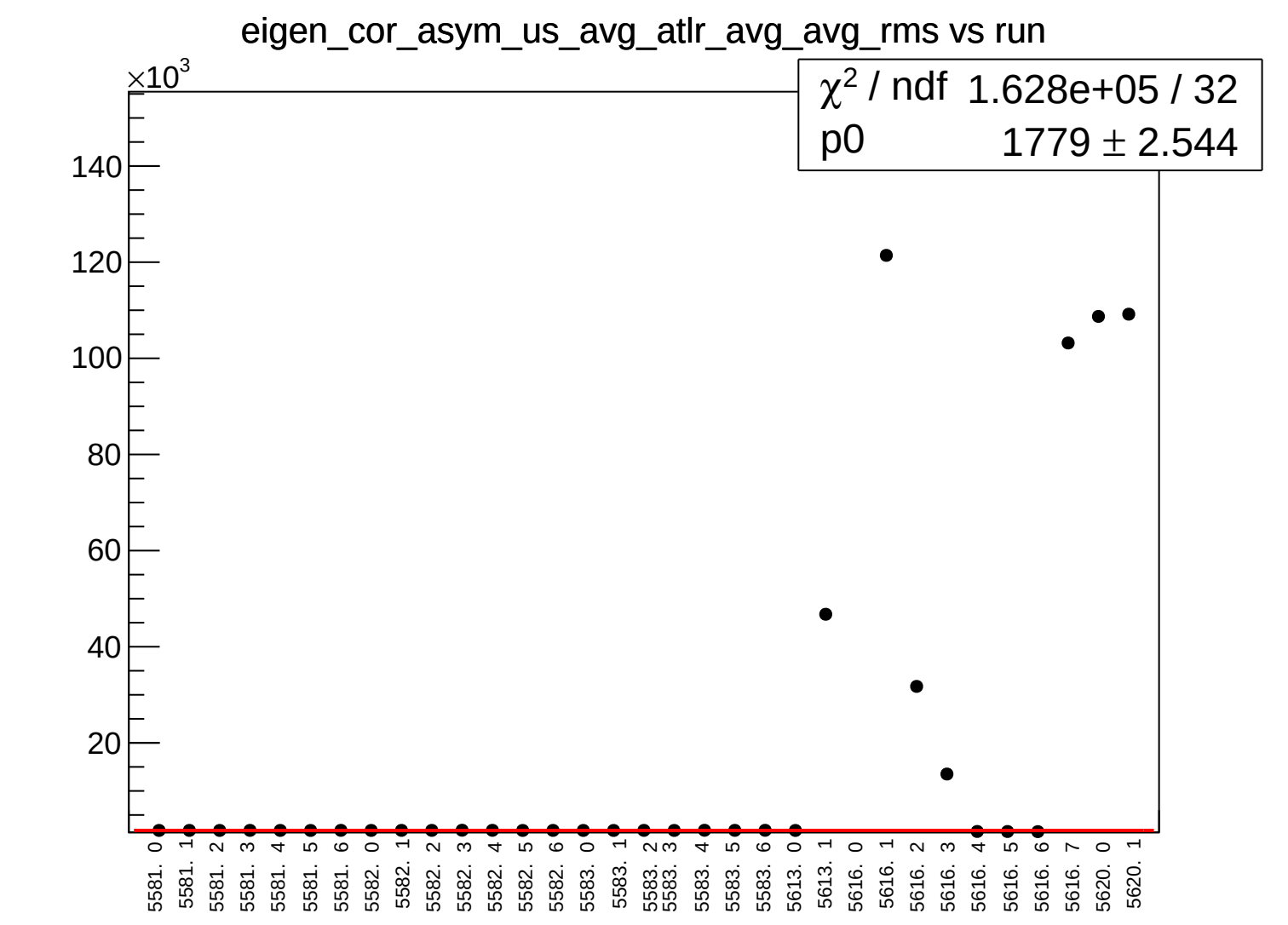

cor_asym_us_avg_atlr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.628e+05 / 32
p0 1779 ± 2.544
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

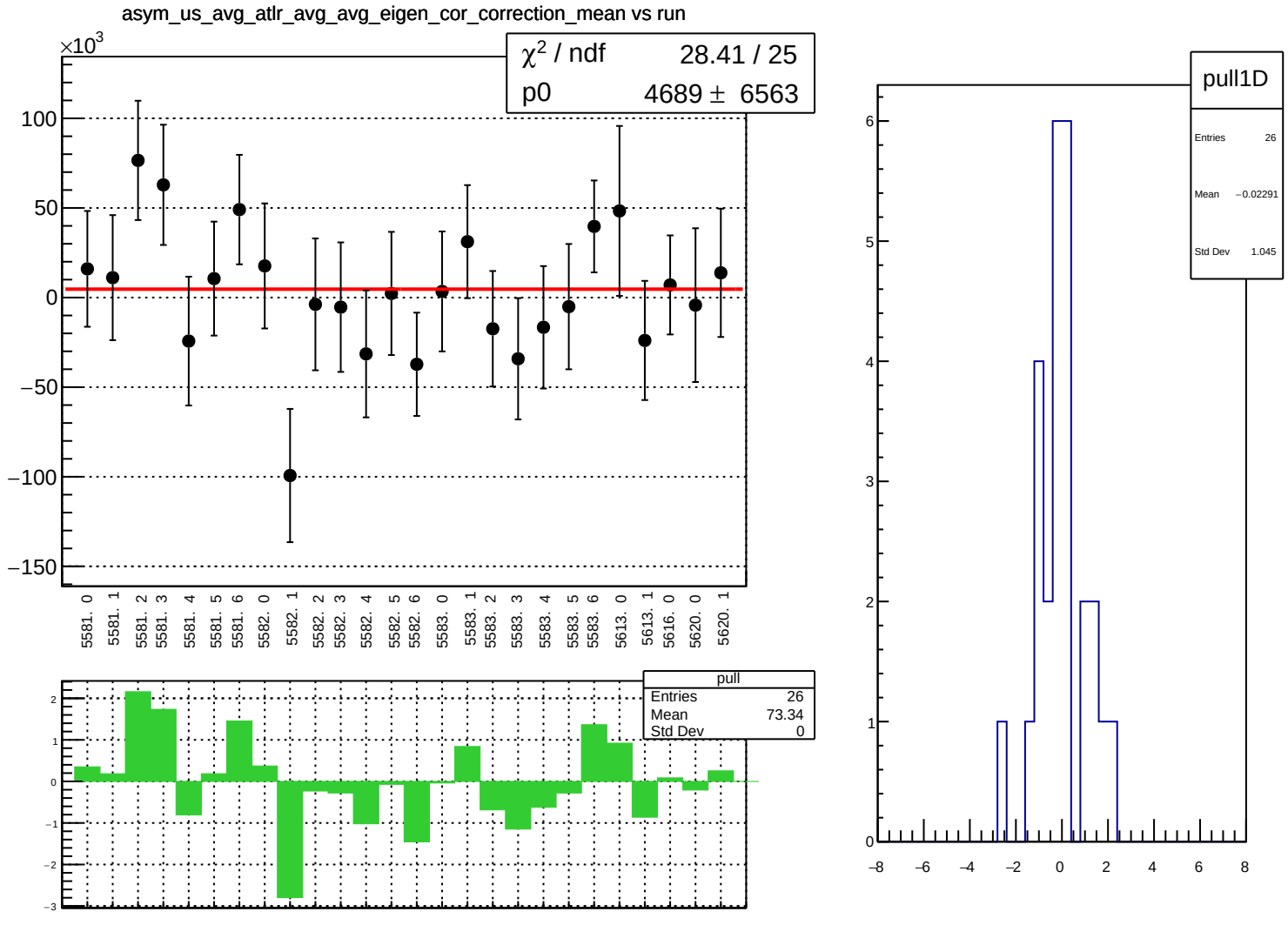

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 28.41 / 25
p0 4689 ± 6563
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 73.34
Std Dev 0
2
1
0
−1
−2
−3

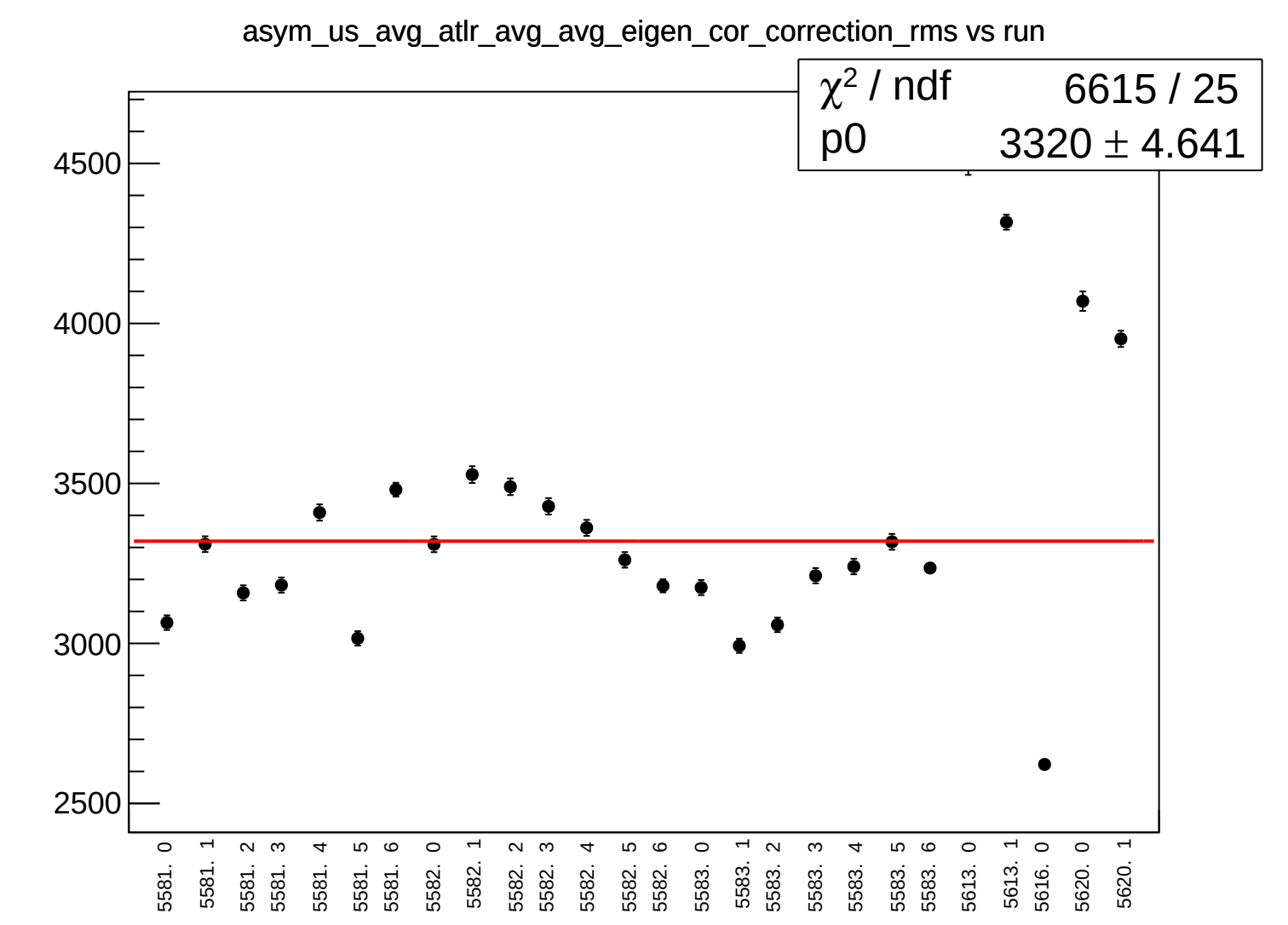

pull1D
Entries 26
Mean −0.02291
Std Dev 1.045
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

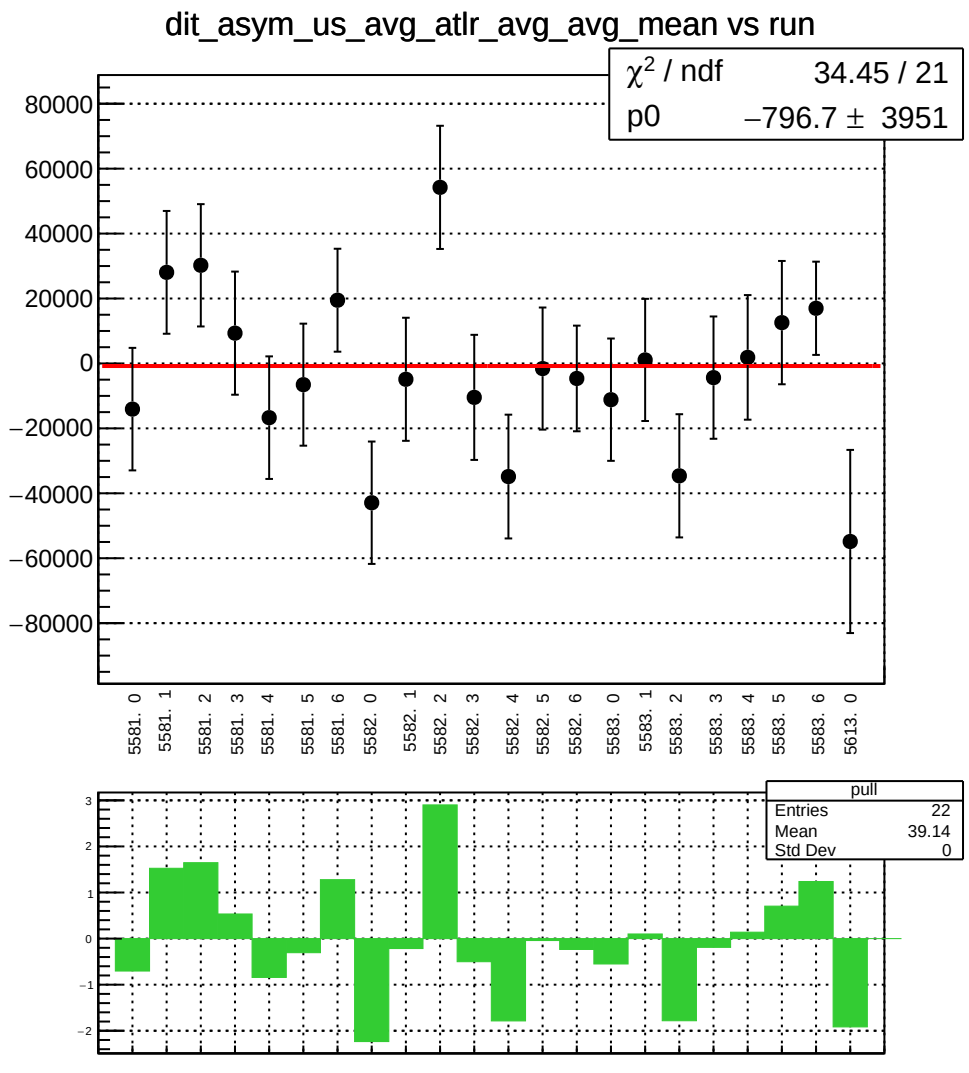

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 6615 / 25
p0 3320 ± 4.641
4500
4000
3500
3000
2500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

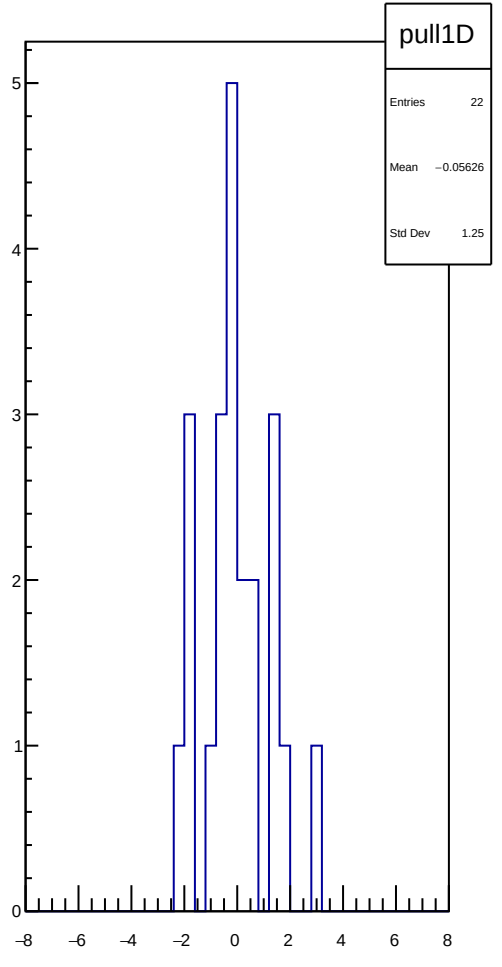

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 33.11 / 21
p0 −1399 ± 3892
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 65.54
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 22
Mean −0.02645
Std Dev 1.227
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

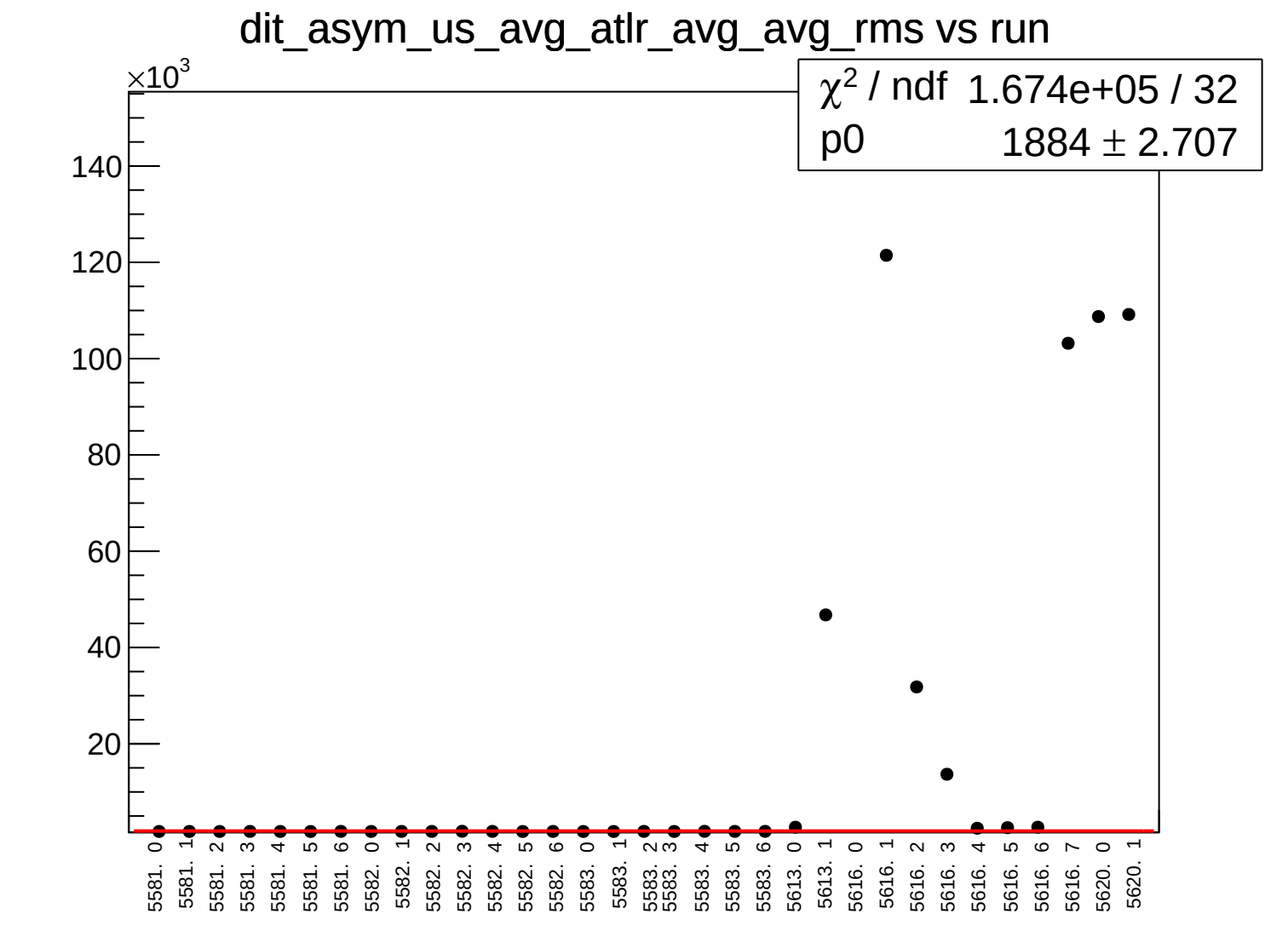

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.628e+05 / 32
p0 1779 ± 2.544
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

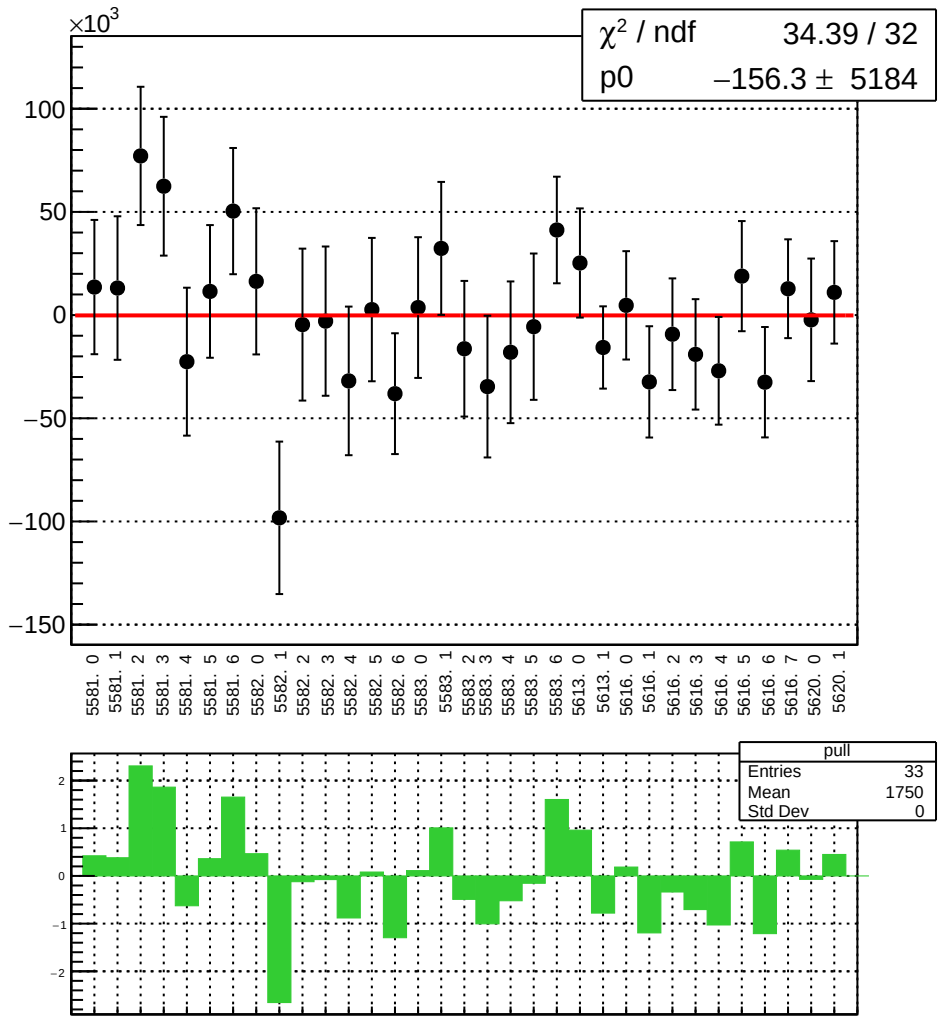

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 28.41 / 25
p0 4689 ± 6563
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 73.34
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 26
Mean −0.02291
Std Dev 1.045
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

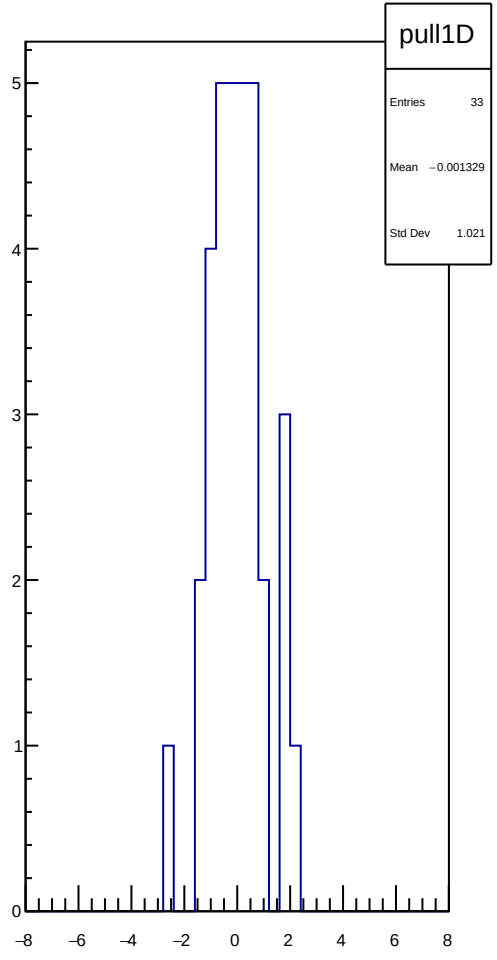

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6615 / 25
p0 3320 ± 4.641
4500
4000
3500
3000
2500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

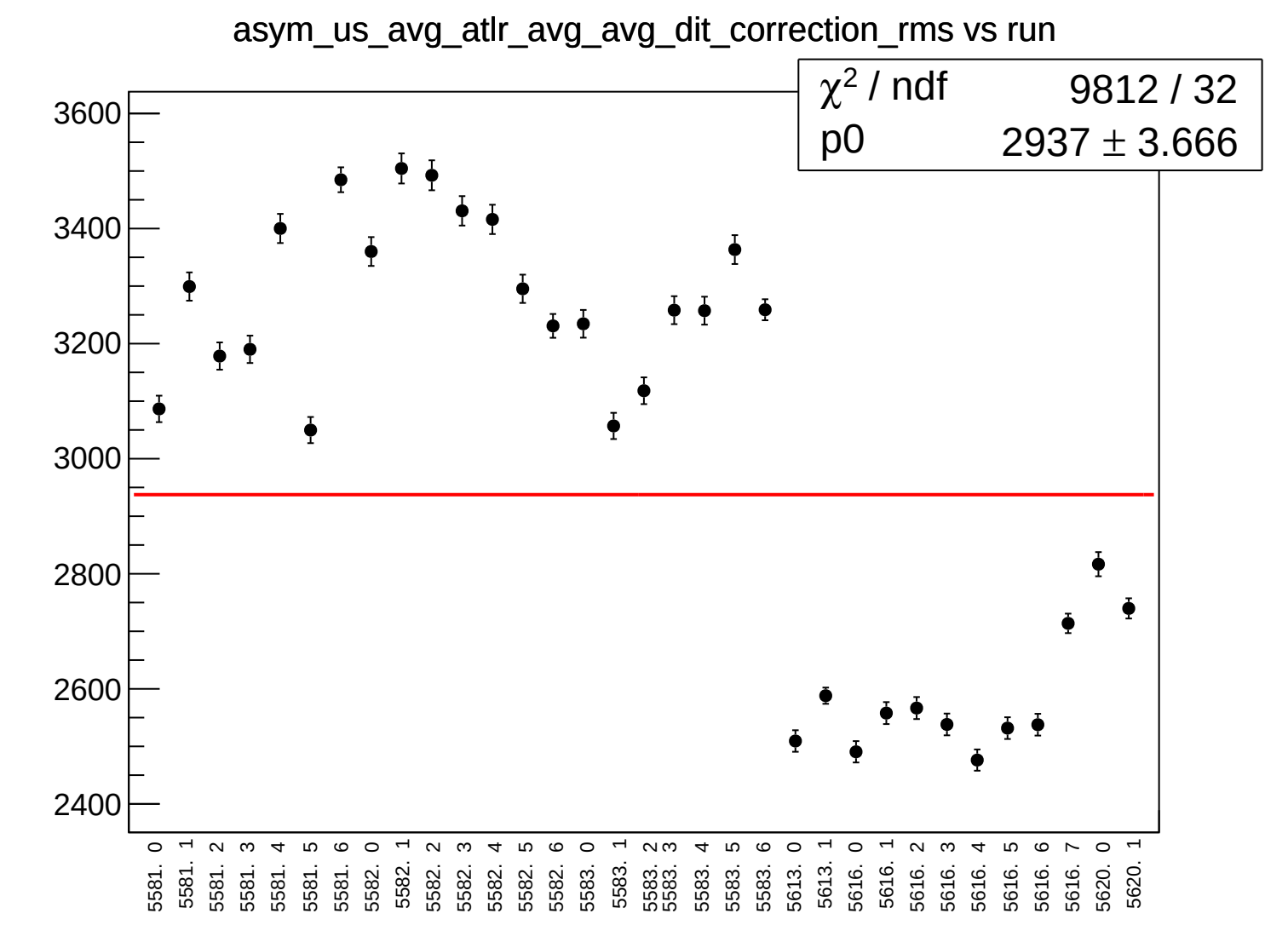

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 34.45 / 21
p0 −796.7 ± 3951
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 39.14
Std Dev 0
3
2
1
0
−1
−2

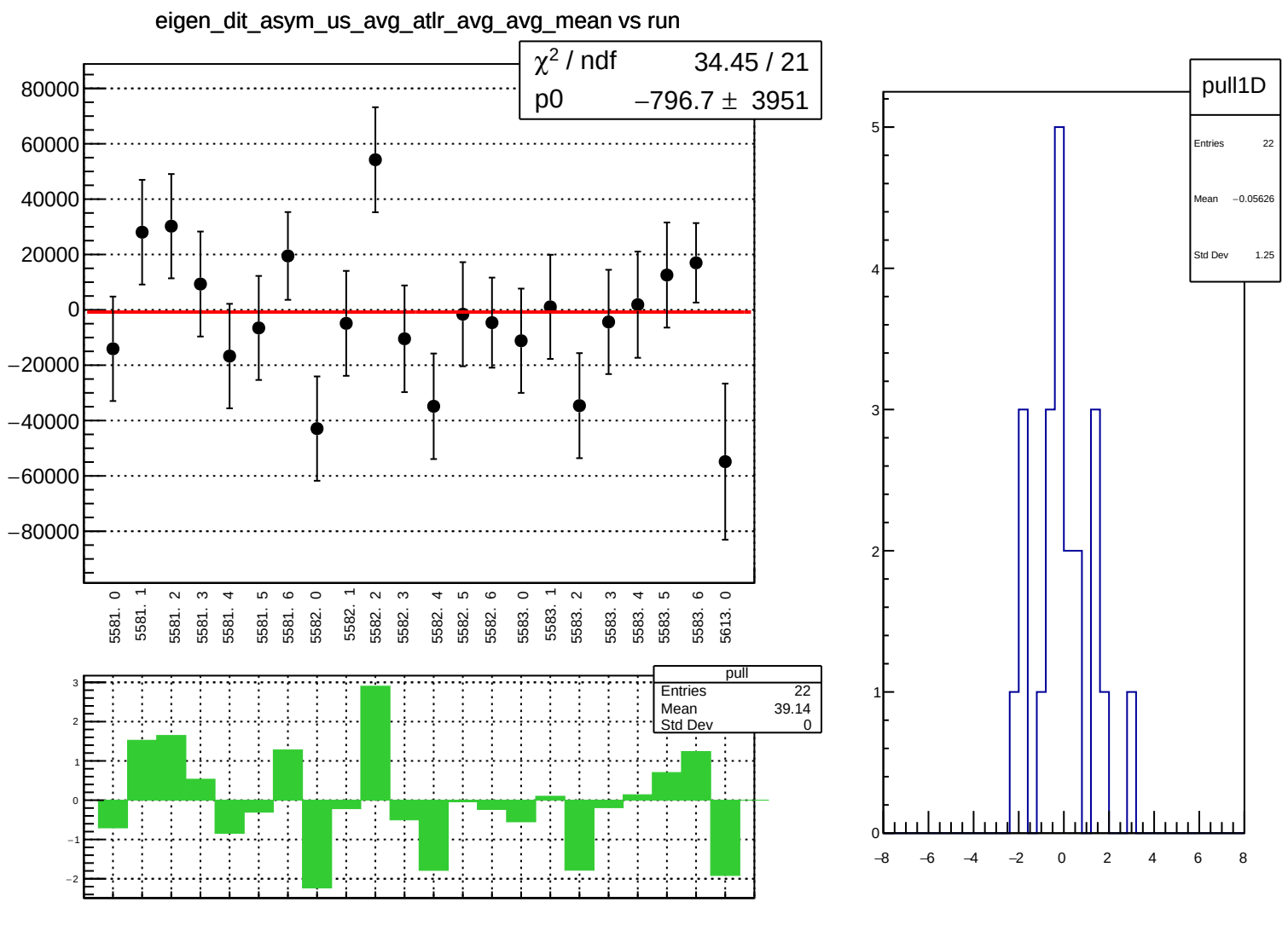

pull1D
Entries 22
Mean −0.05626
Std Dev 1.25
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

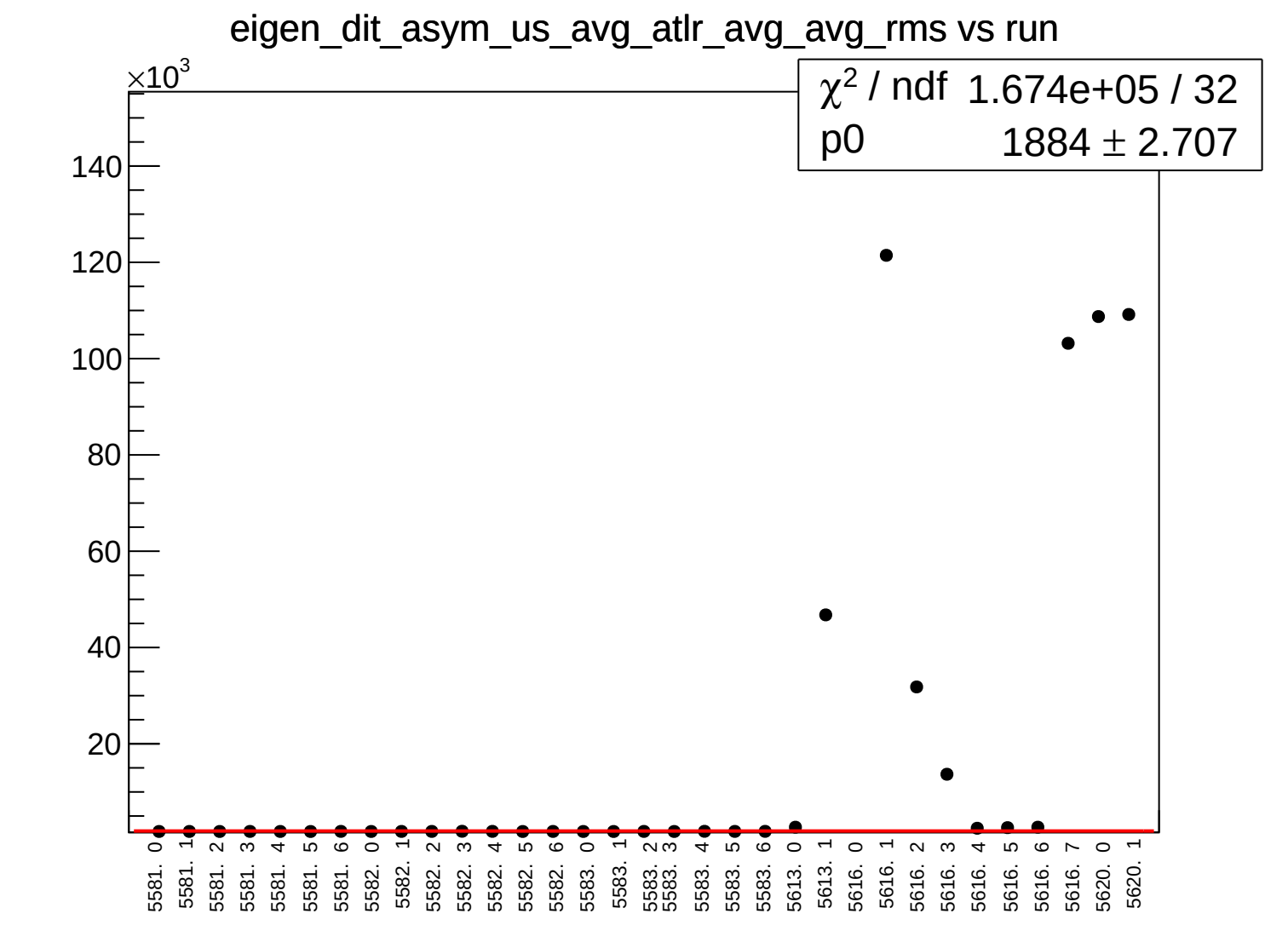

dit_asym_us_avg_atlr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.674e+05 / 32
p0 1884 ± 2.707
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

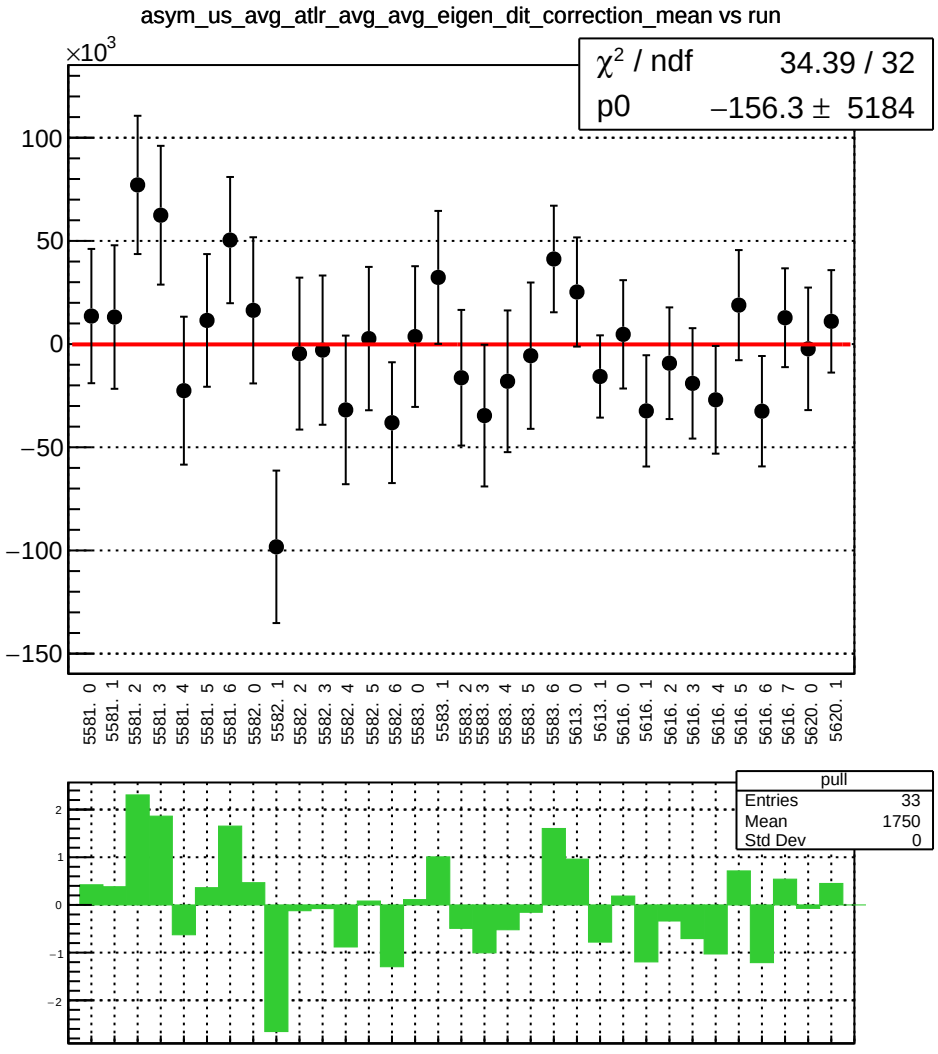

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 34.39 / 32
p0 −156.3 ± 5184
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 1750
Std Dev 0
2
1
0
−1
−2

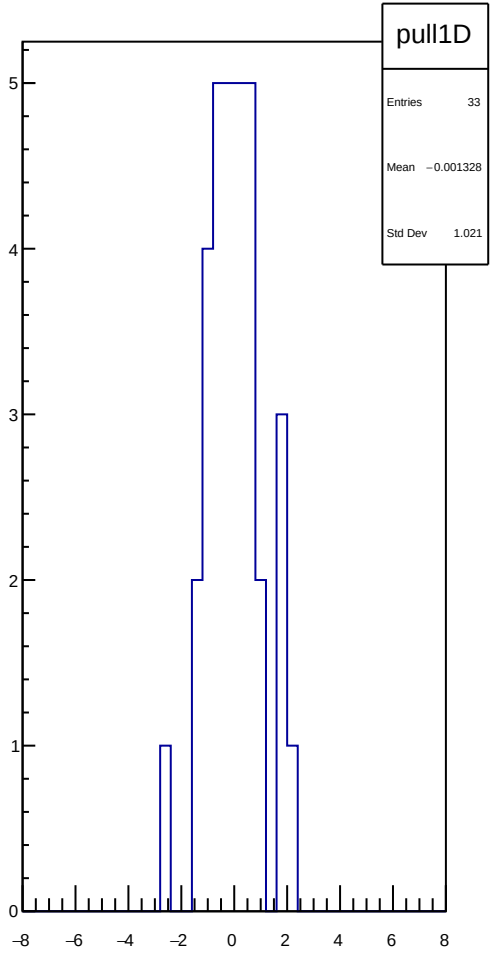

pull1D
Entries 33
Mean −0.001329
Std Dev 1.021
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

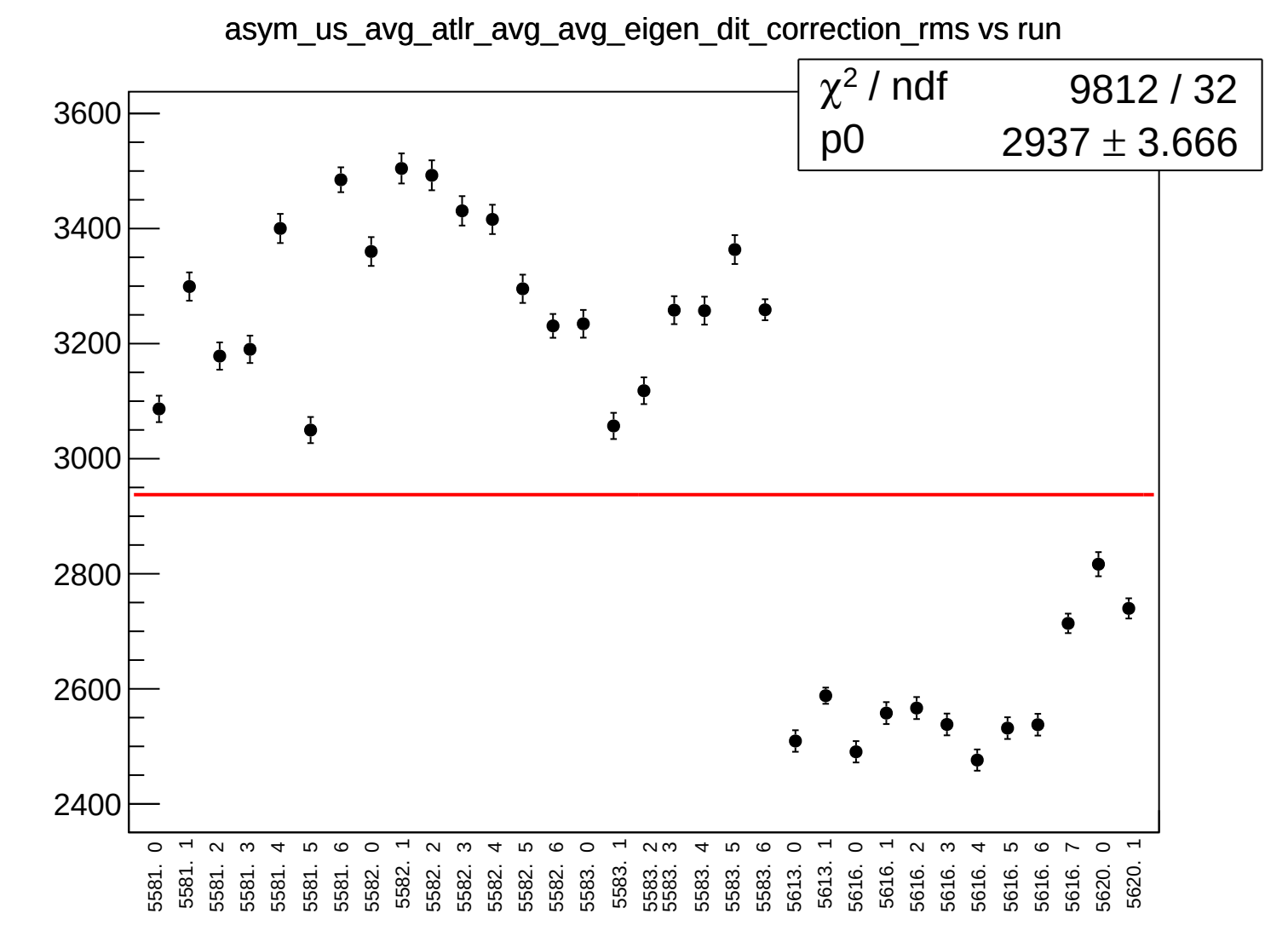

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 9812 / 32
p0 2937 ± 3.666
3600
3400
3200
3000
2800
2600
2400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

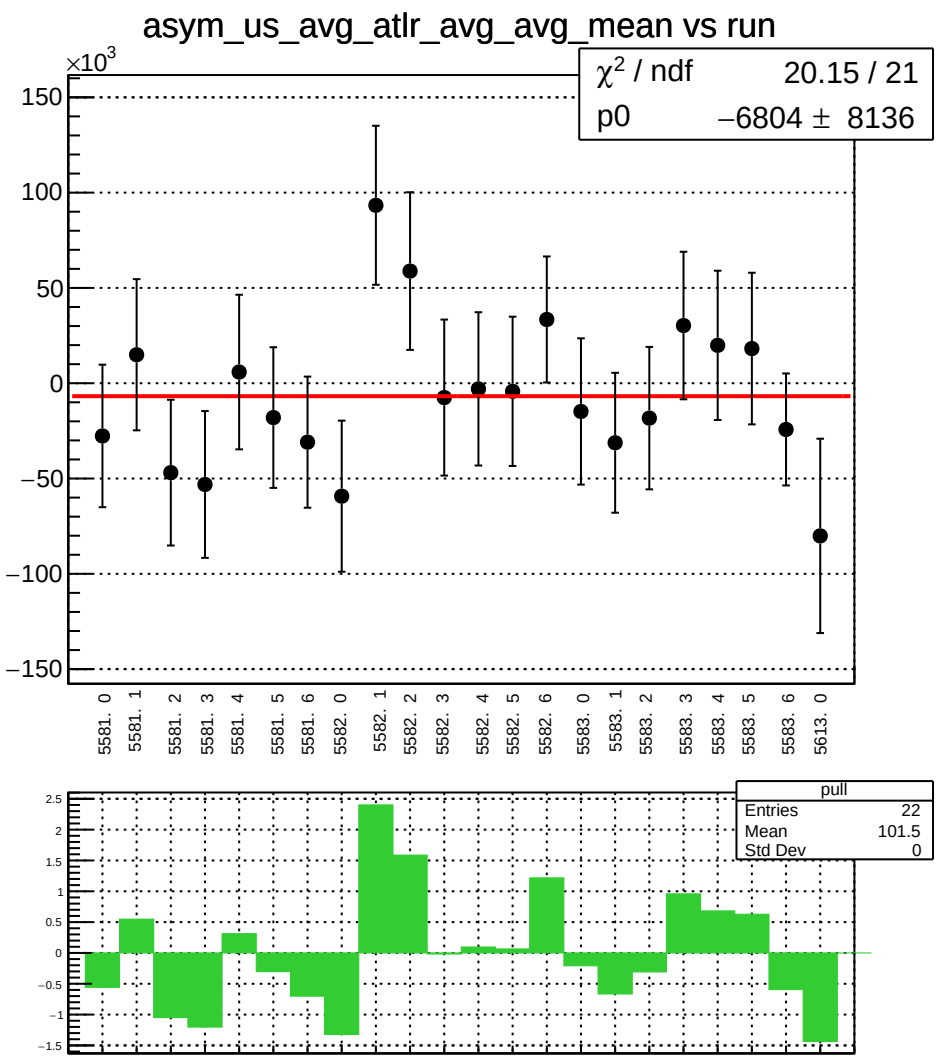

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 34.45 / 21
p0 −796.7 ± 3951
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 39.14
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 22
Mean −0.05626
Std Dev 1.25
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

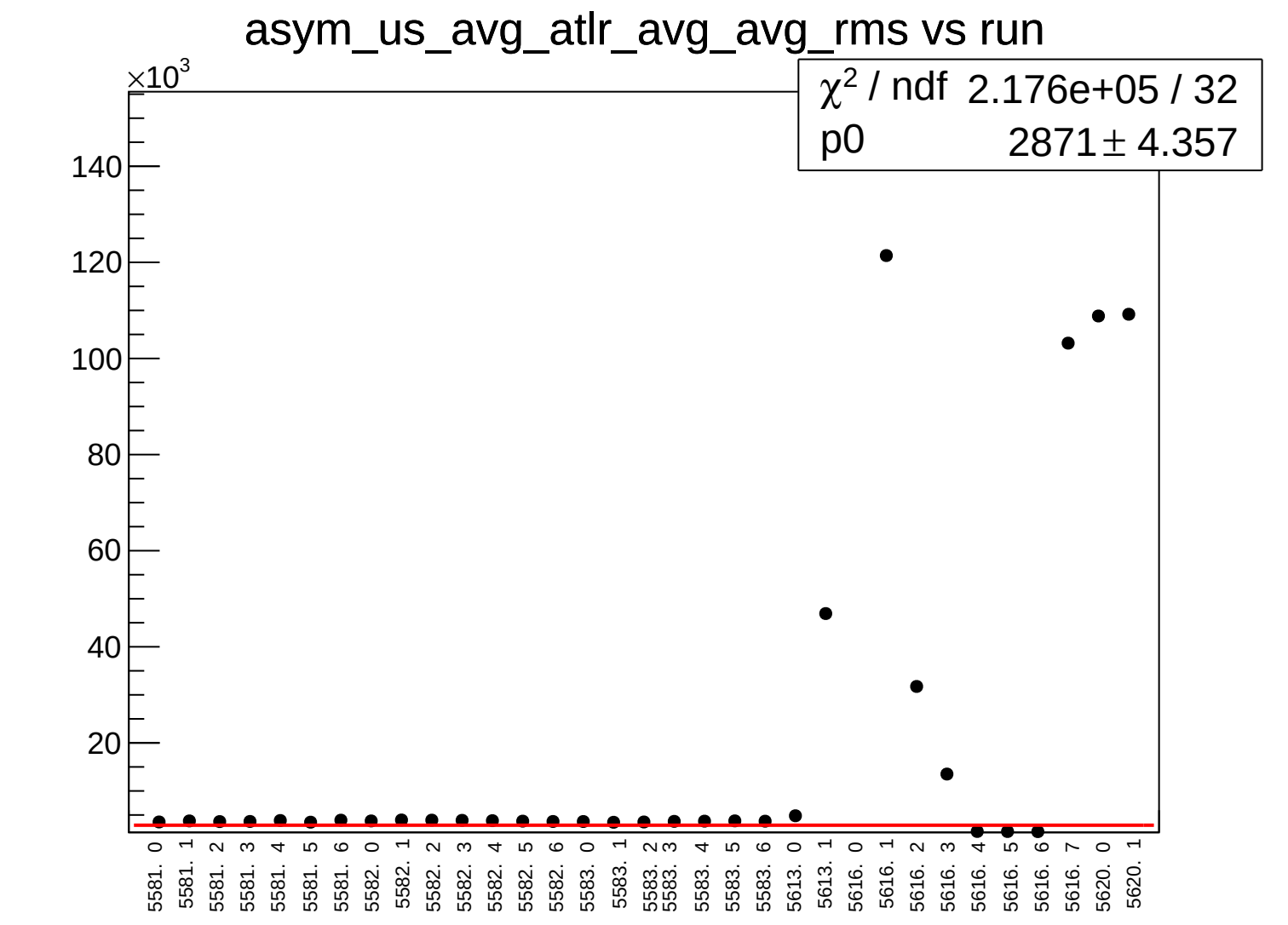

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
×10^3
χ^2 / ndf 1.674e+05 / 32
p0 1884 ± 2.707
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

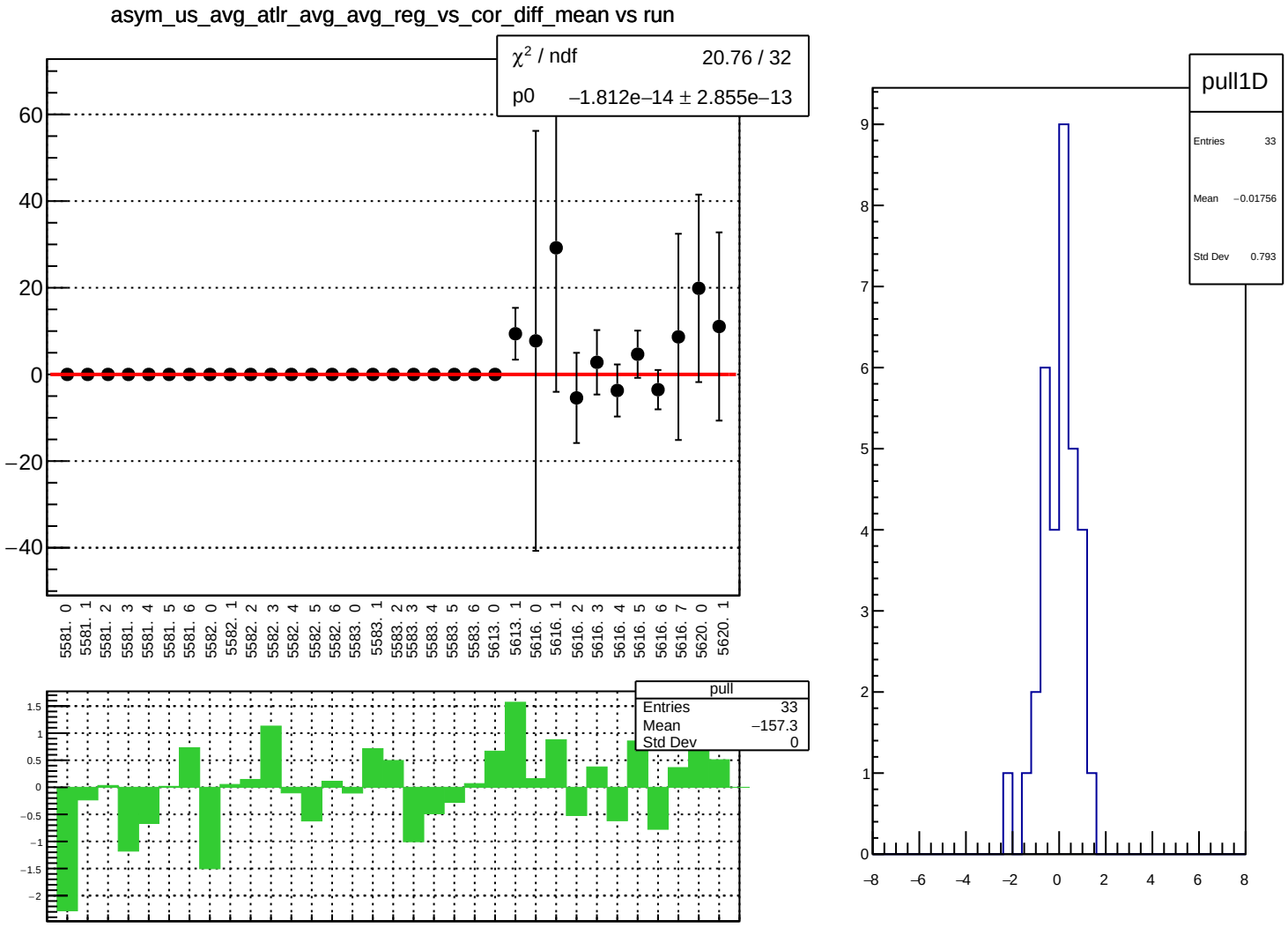

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 34.39 / 32
p0 −156.3 ± 5184
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 1750
Std Dev 0
2
1
0
−1
−2

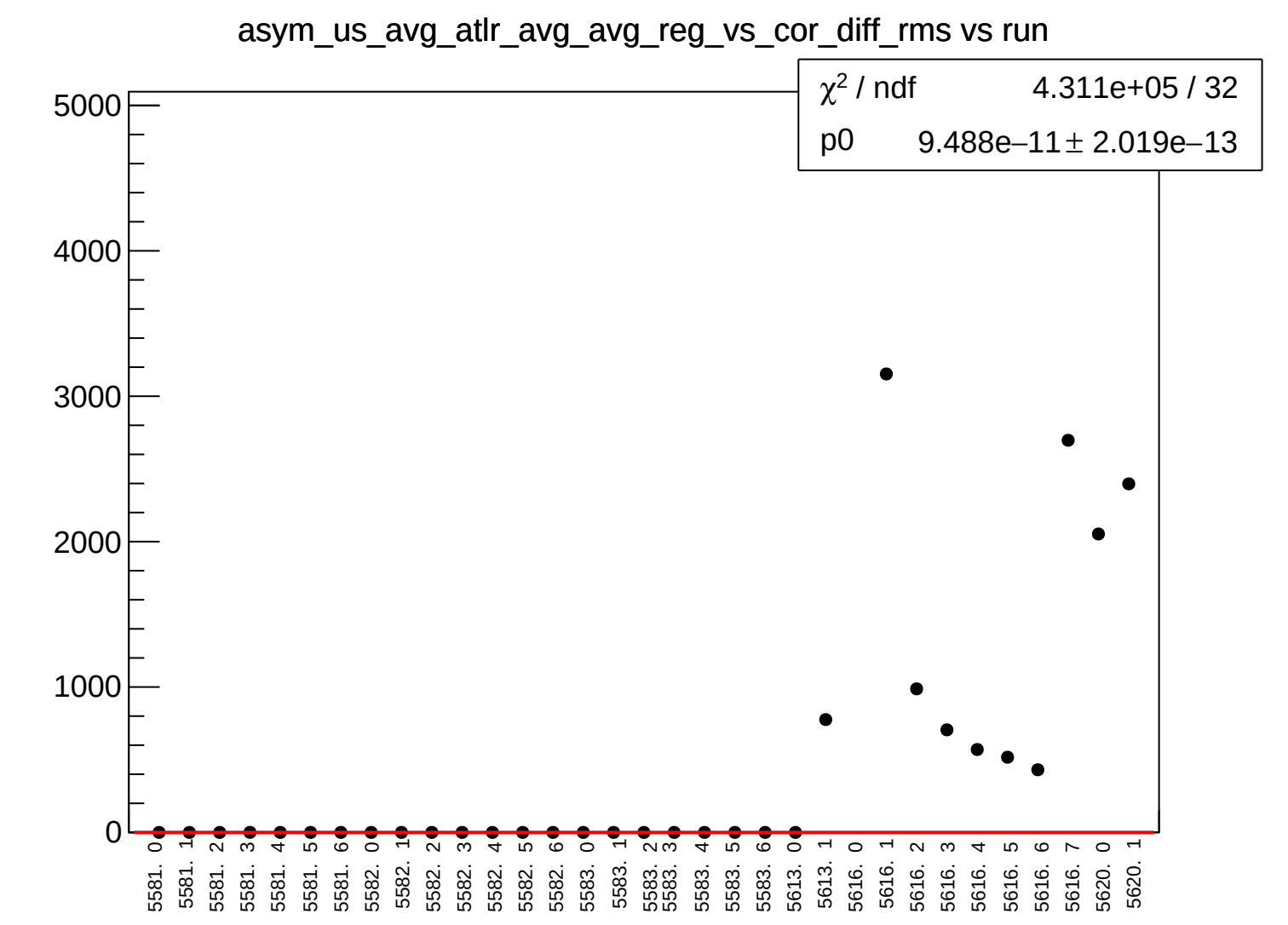

pull1D
Entries 33
Mean −0.001328
Std Dev 1.021
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

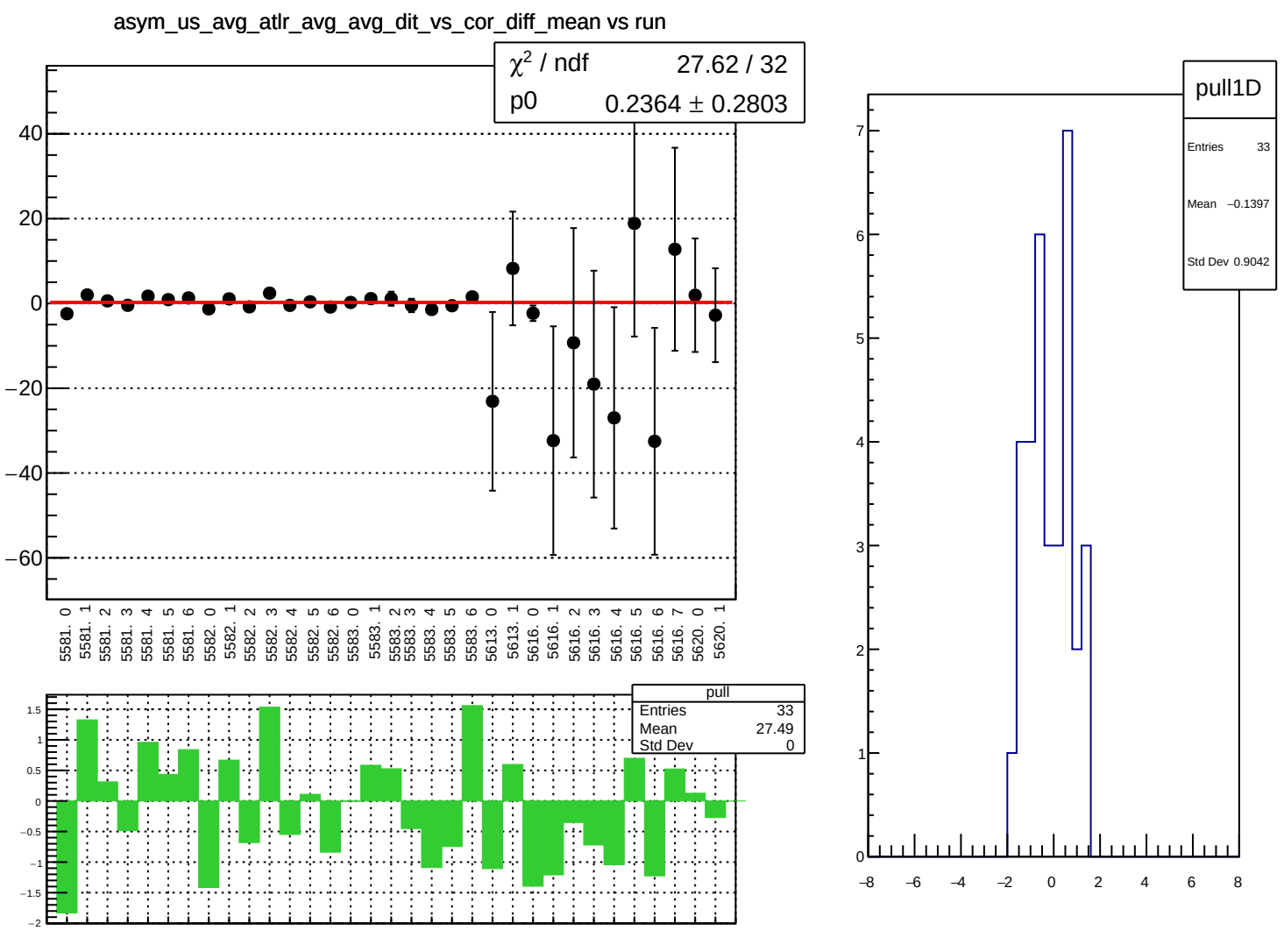

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 9812 / 32
p0 2937 ± 3.666
3600
3400
3200
3000
2800
2600
2400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

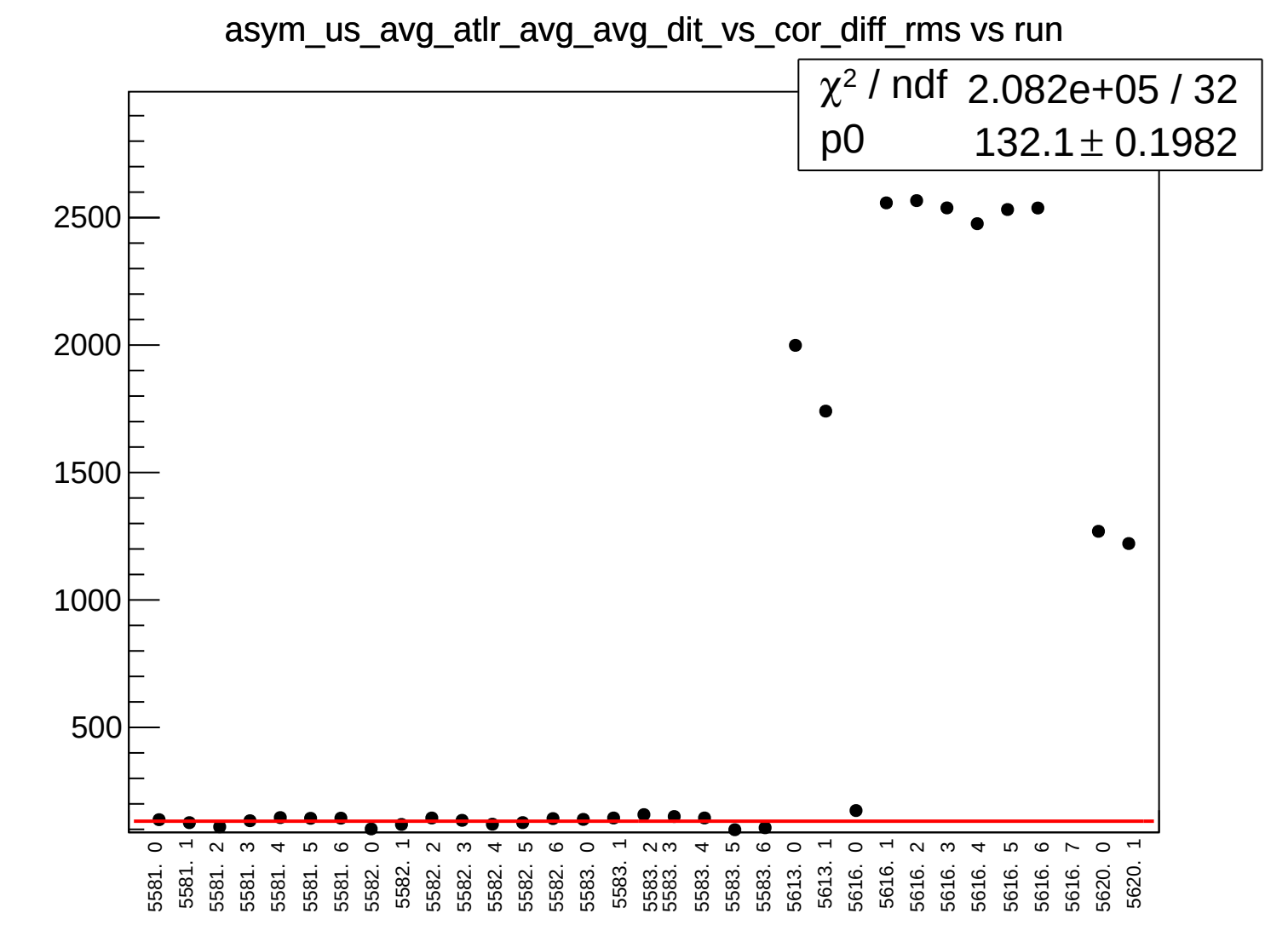

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 20.15 / 21
p0 −6804 ± 8136
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 101.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 22
Mean 0.005698
Std Dev 0.957
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

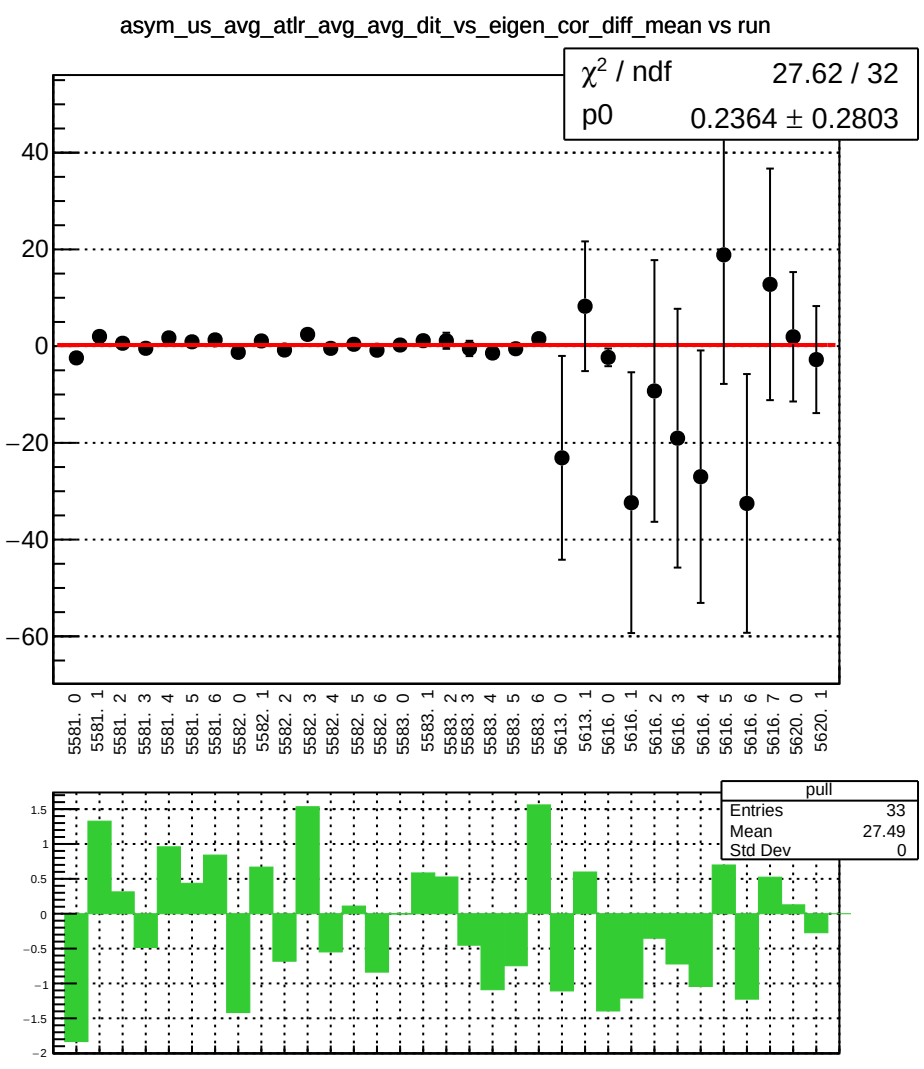

asym_us_avg_atlr_avg_avg_rms vs run
×10^3
χ^2 / ndf 2.176e+05 / 32
p0 2871 ± 4.357
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

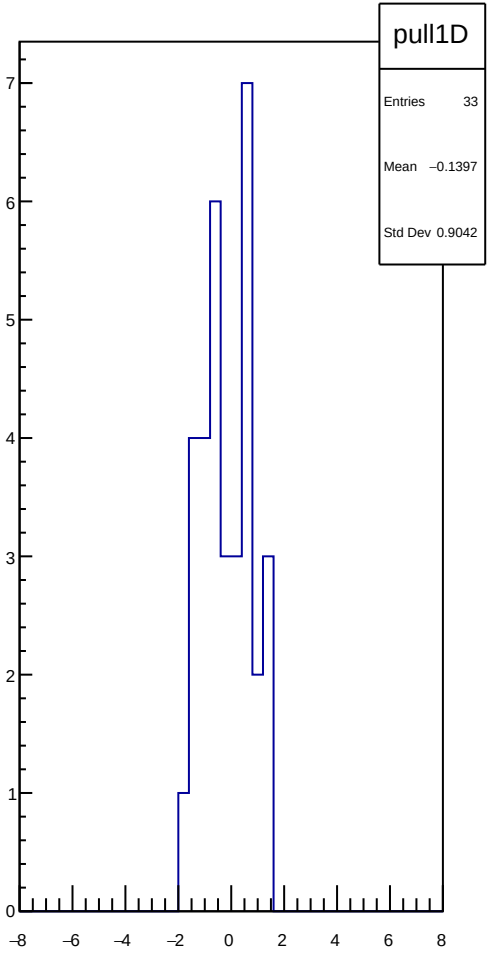

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 20.76 / 32
p0 −1.812e−14 ± 2.855e−13
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −157.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01756
Std Dev 0.793
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

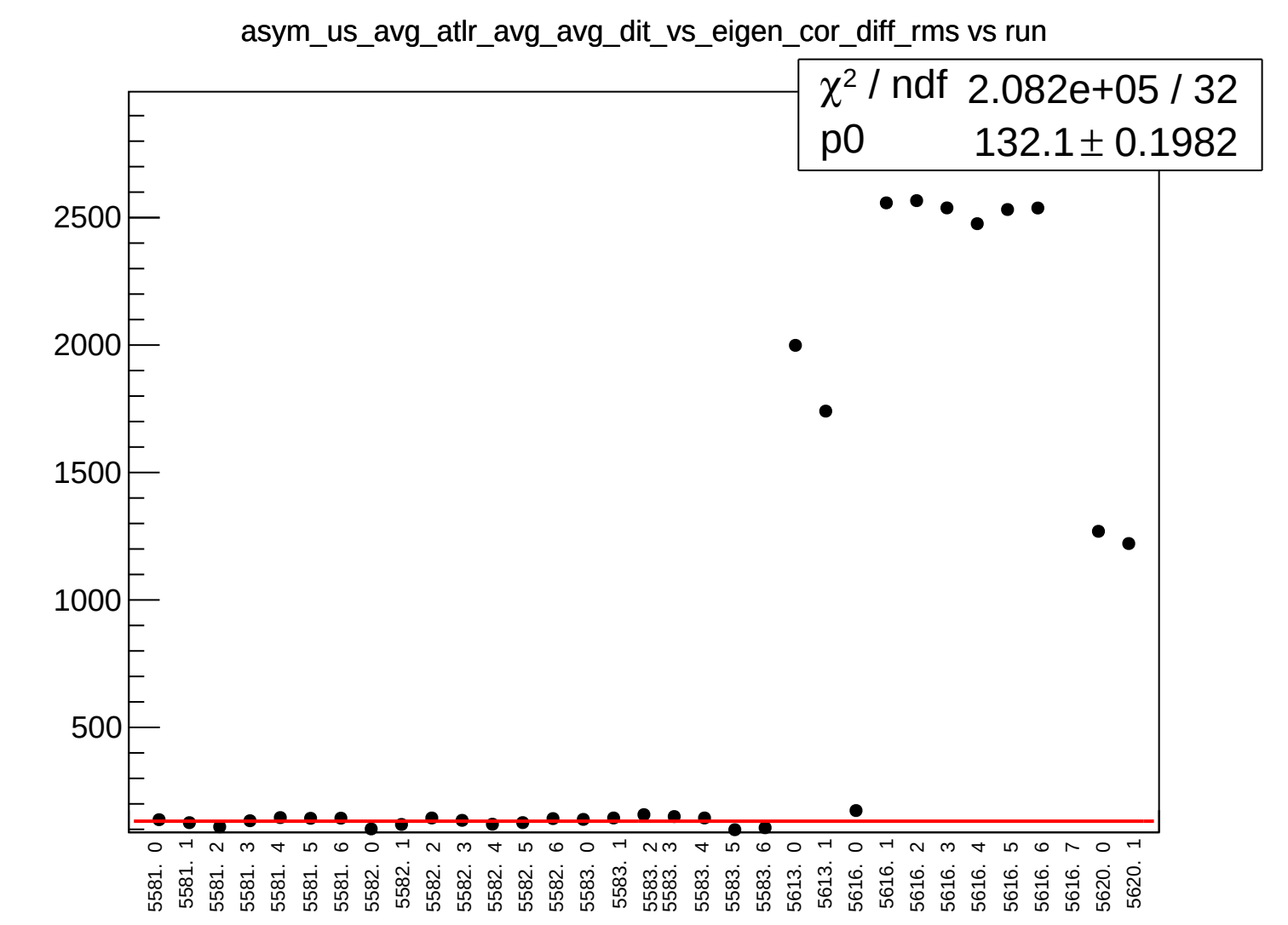

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.311e+05 / 32
p0 9.488e−11 ± 2.019e−13
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

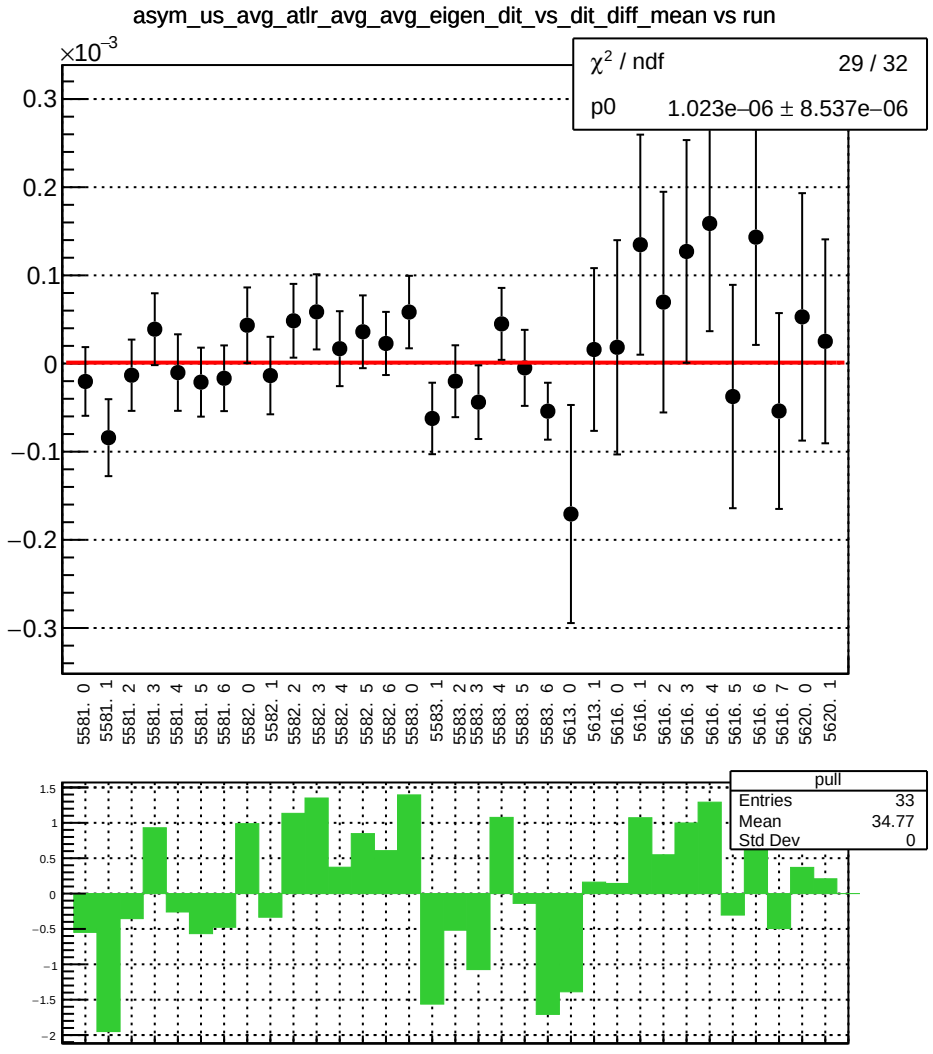

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 27.62 / 32
p0 0.2364 ± 0.2803
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1397
Std Dev 0.9042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

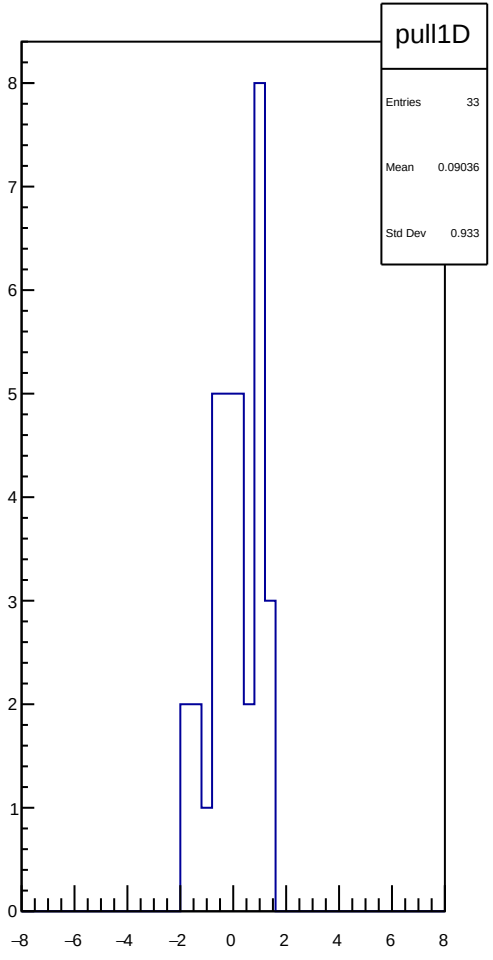

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 32
p0 132.1 ± 0.1982
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

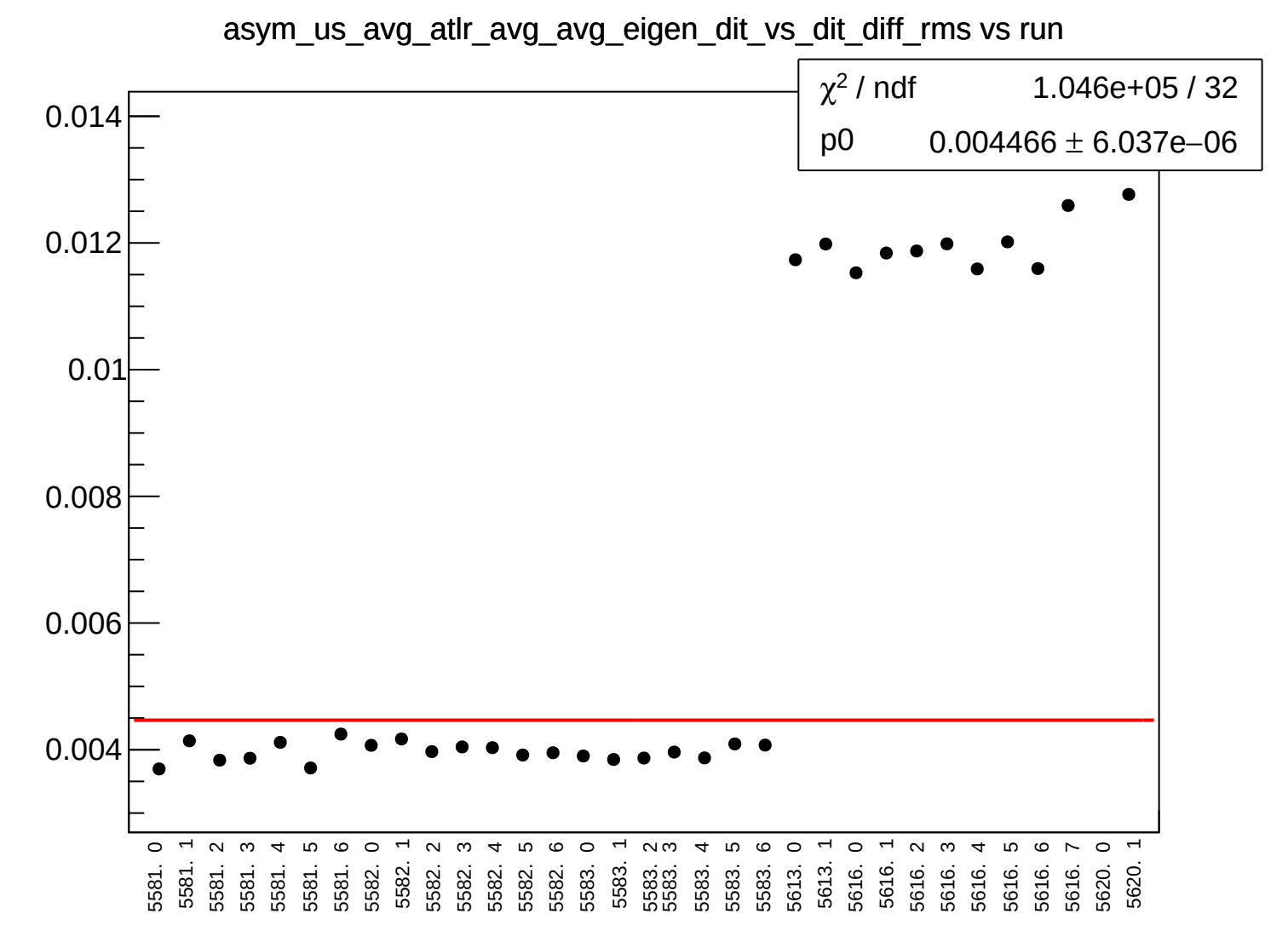

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.62 / 32
p0 0.2364 ± 0.2803
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

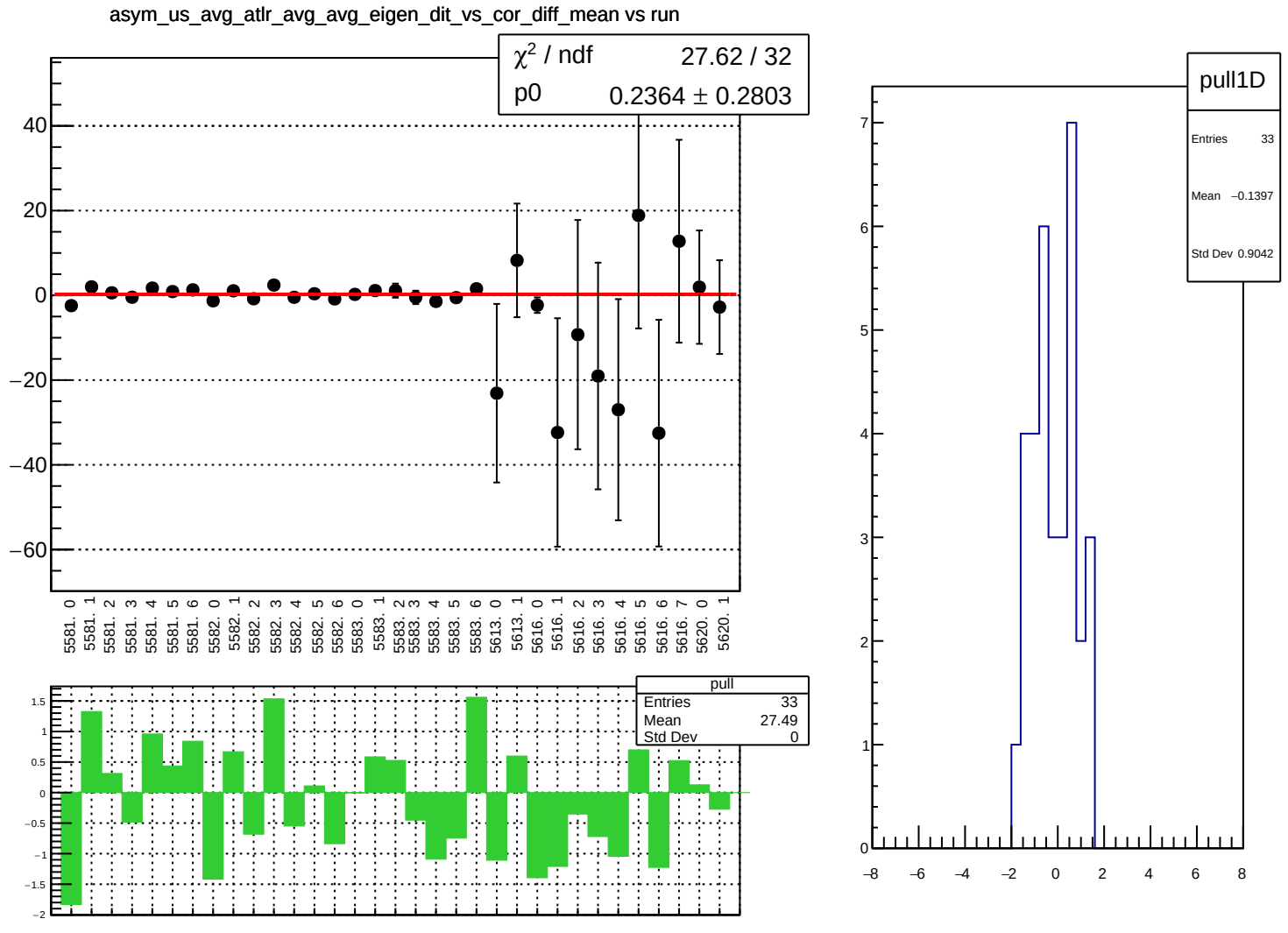

pull1D
Entries 33
Mean −0.1397
Std Dev 0.9042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

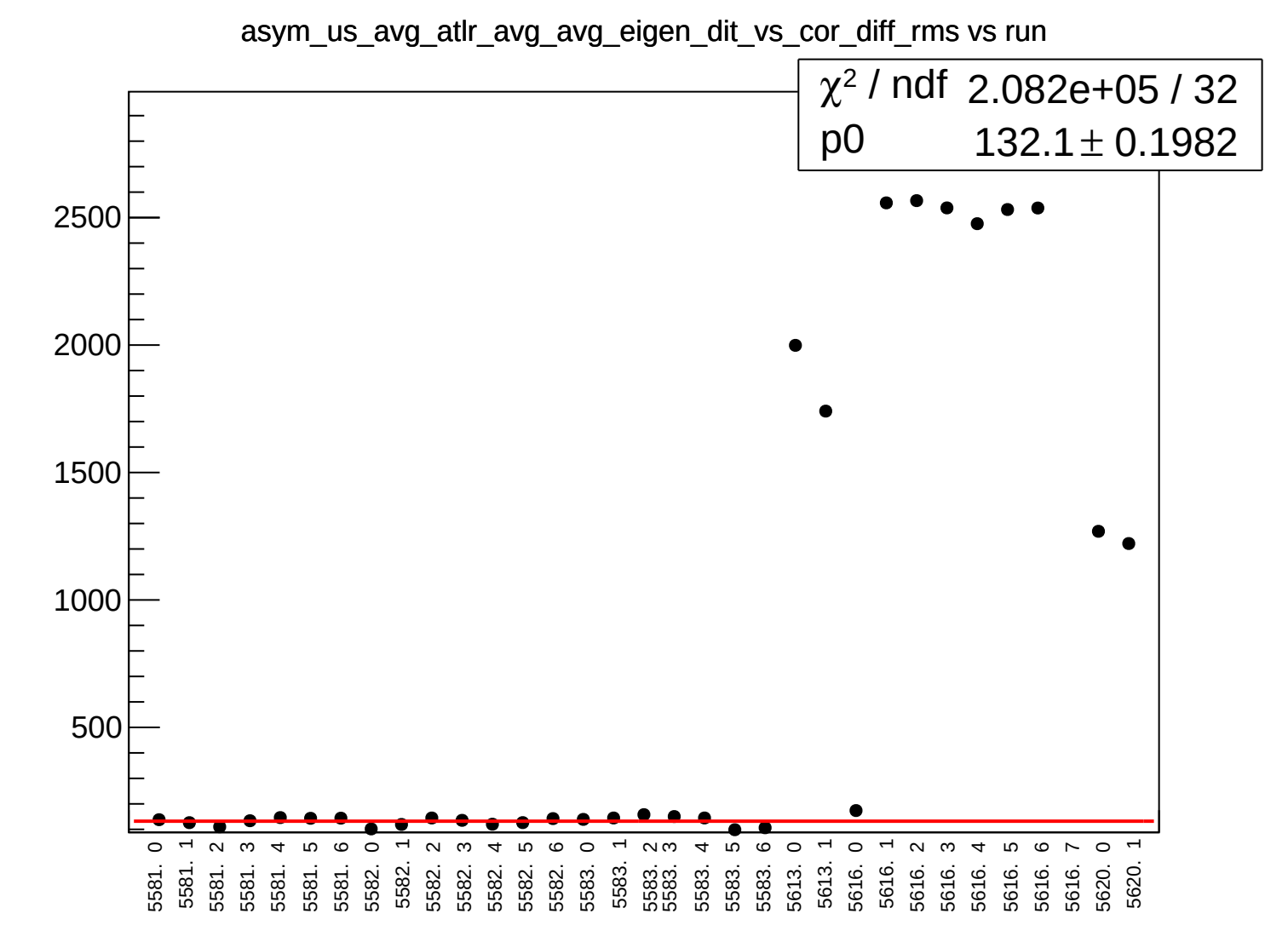

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 32
p0 132.1 ± 0.1982
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

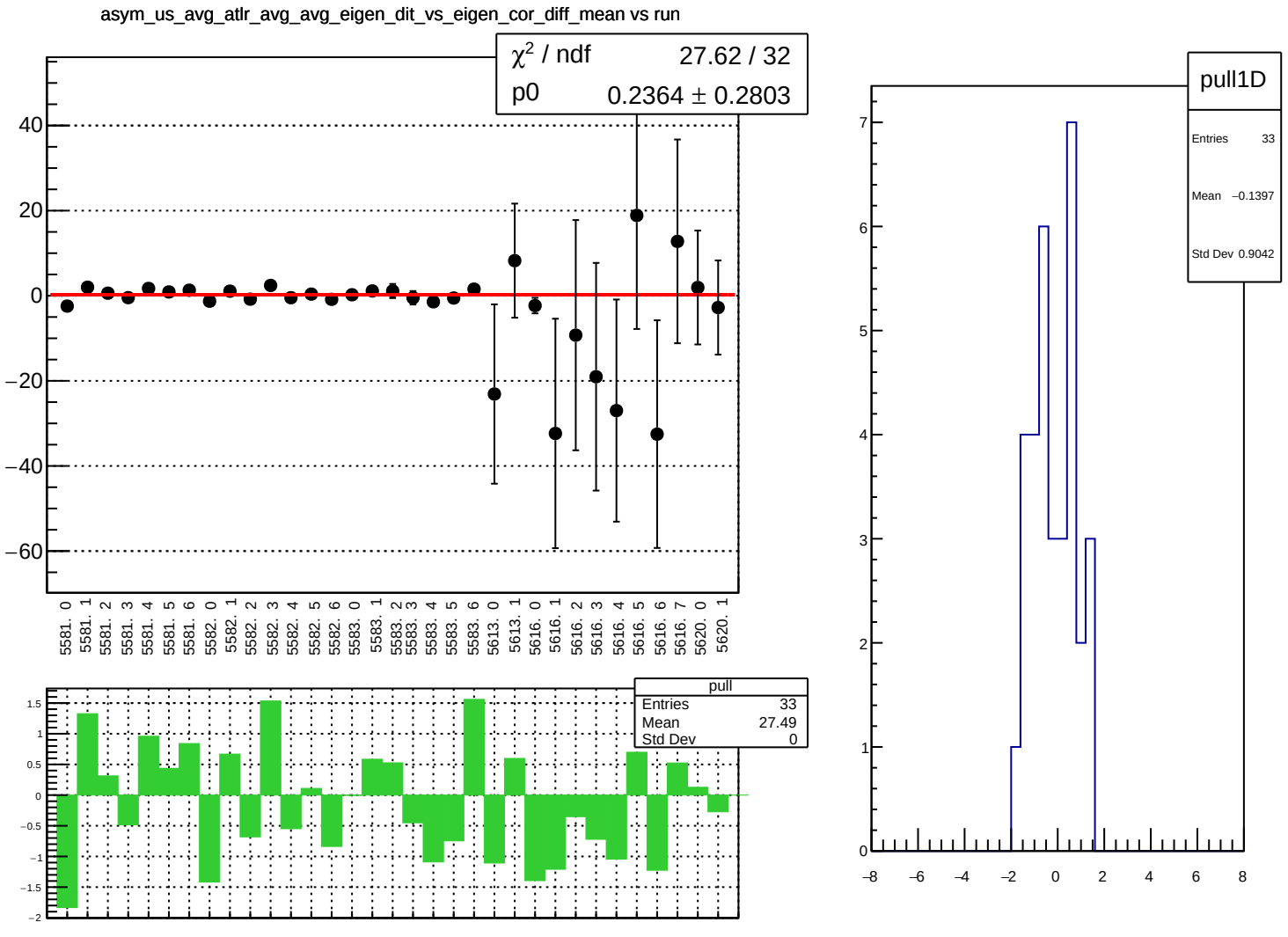

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 29 / 32
p0 1.023e−06 ± 8.537e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.77
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

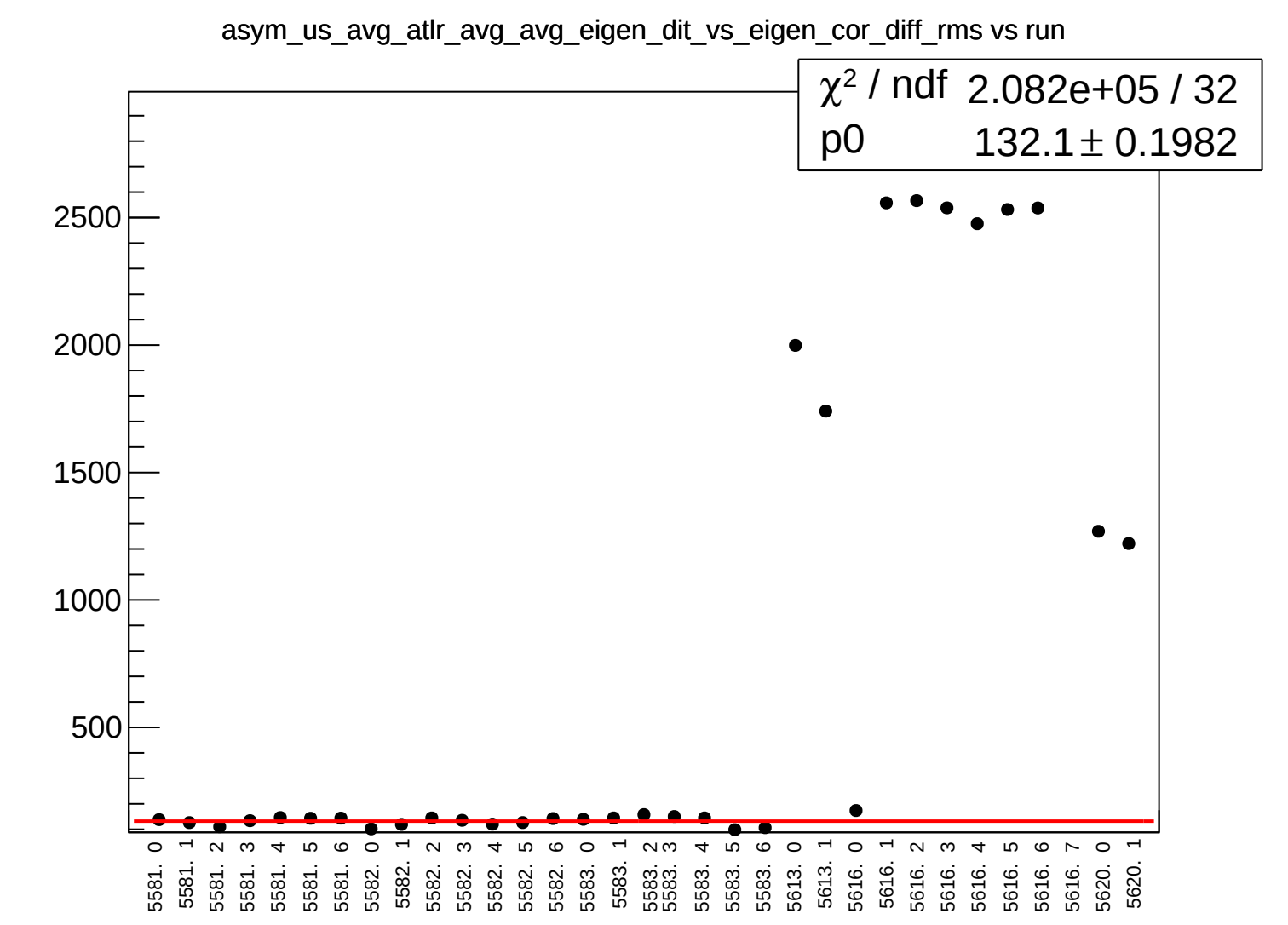

pull1D
Entries 33
Mean 0.09036
Std Dev 0.933
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

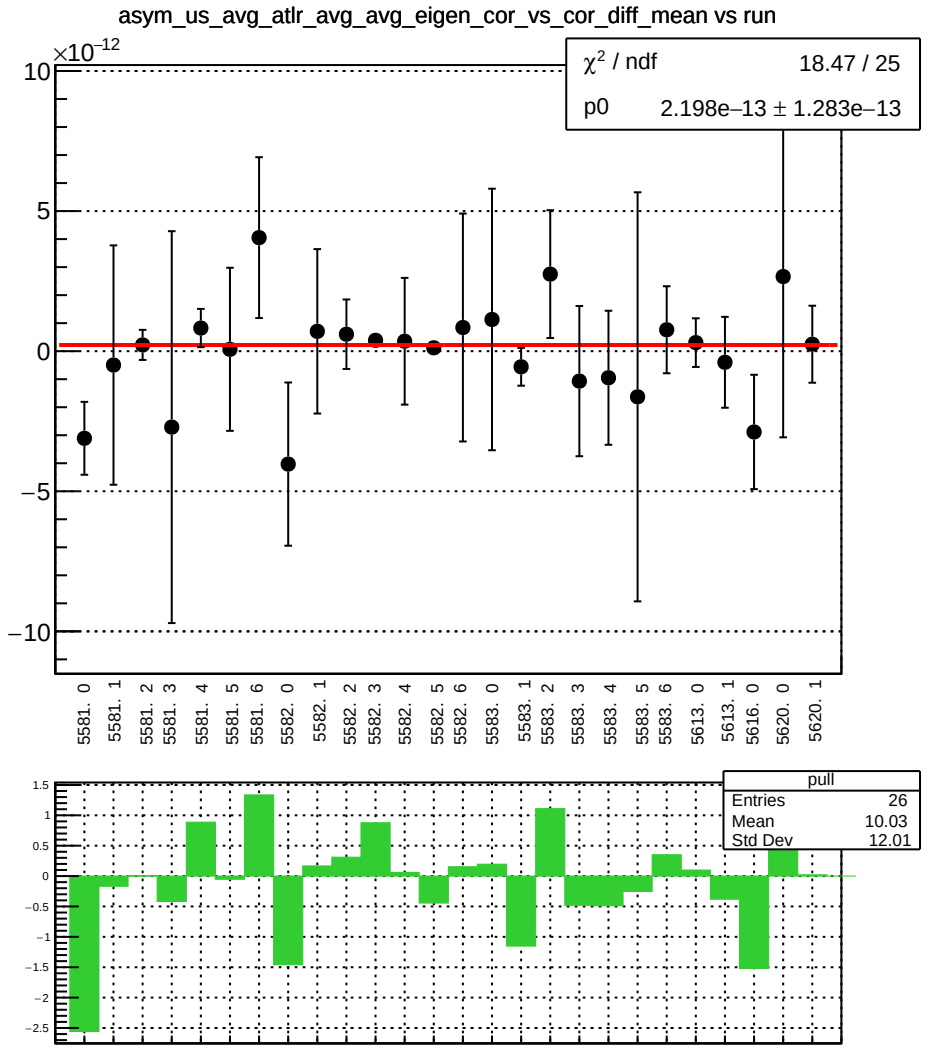

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.046e+05 / 32
p0 0.004466 ± 6.037e−06
0.014
0.012
0.01
0.008
0.006
0.004
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

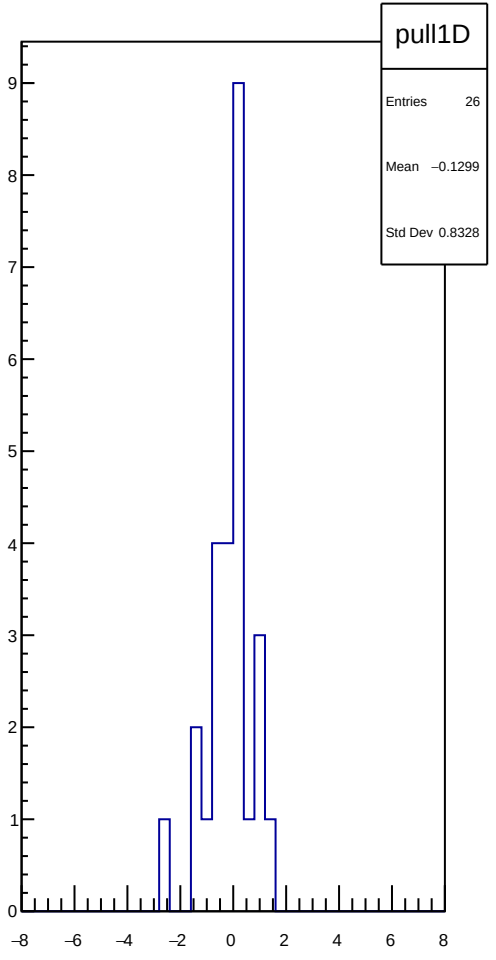

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.62 / 32
p0 0.2364 ± 0.2803
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1397
Std Dev 0.9042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

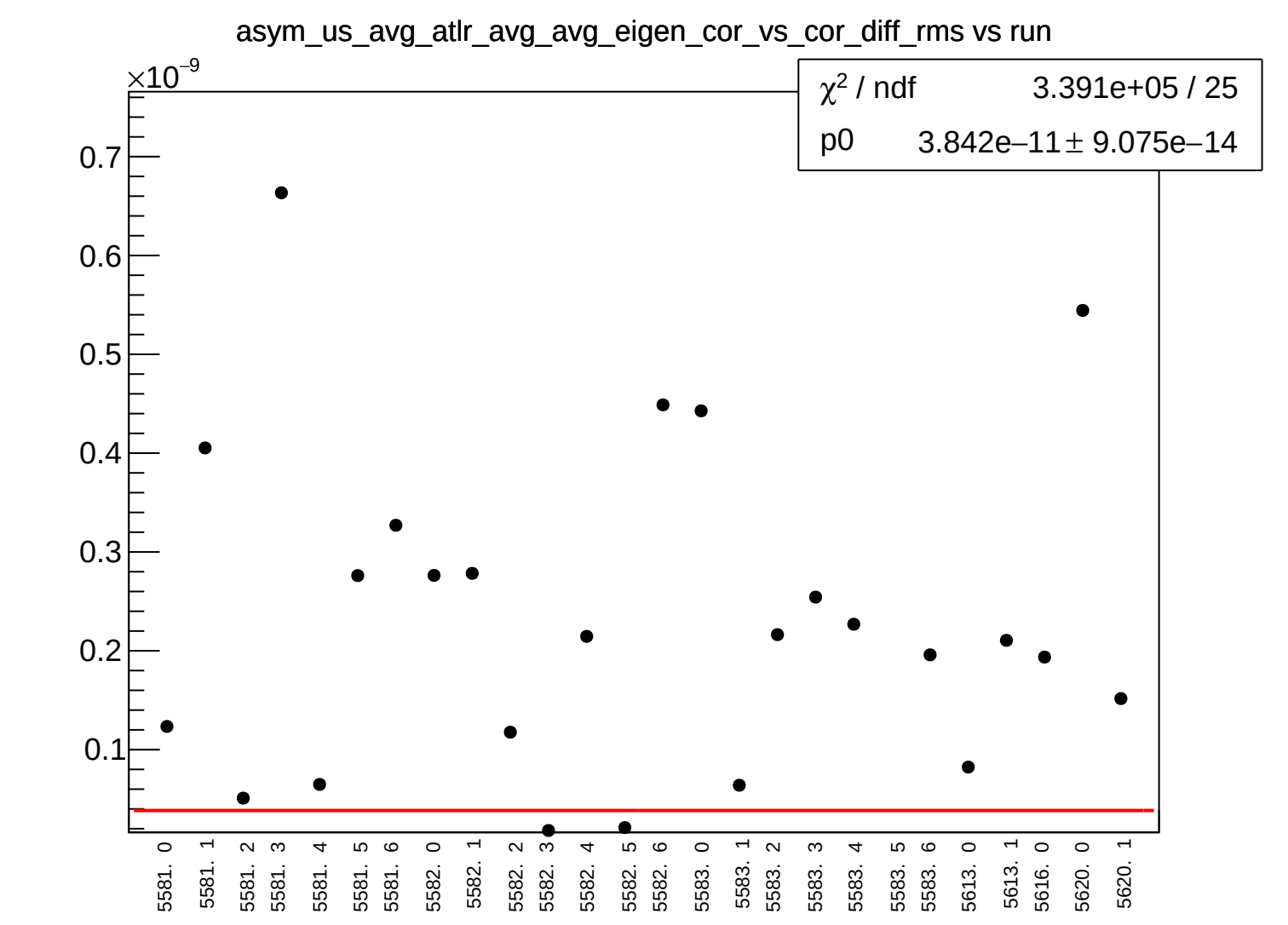

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 32
p0 132.1 ± 0.1982
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

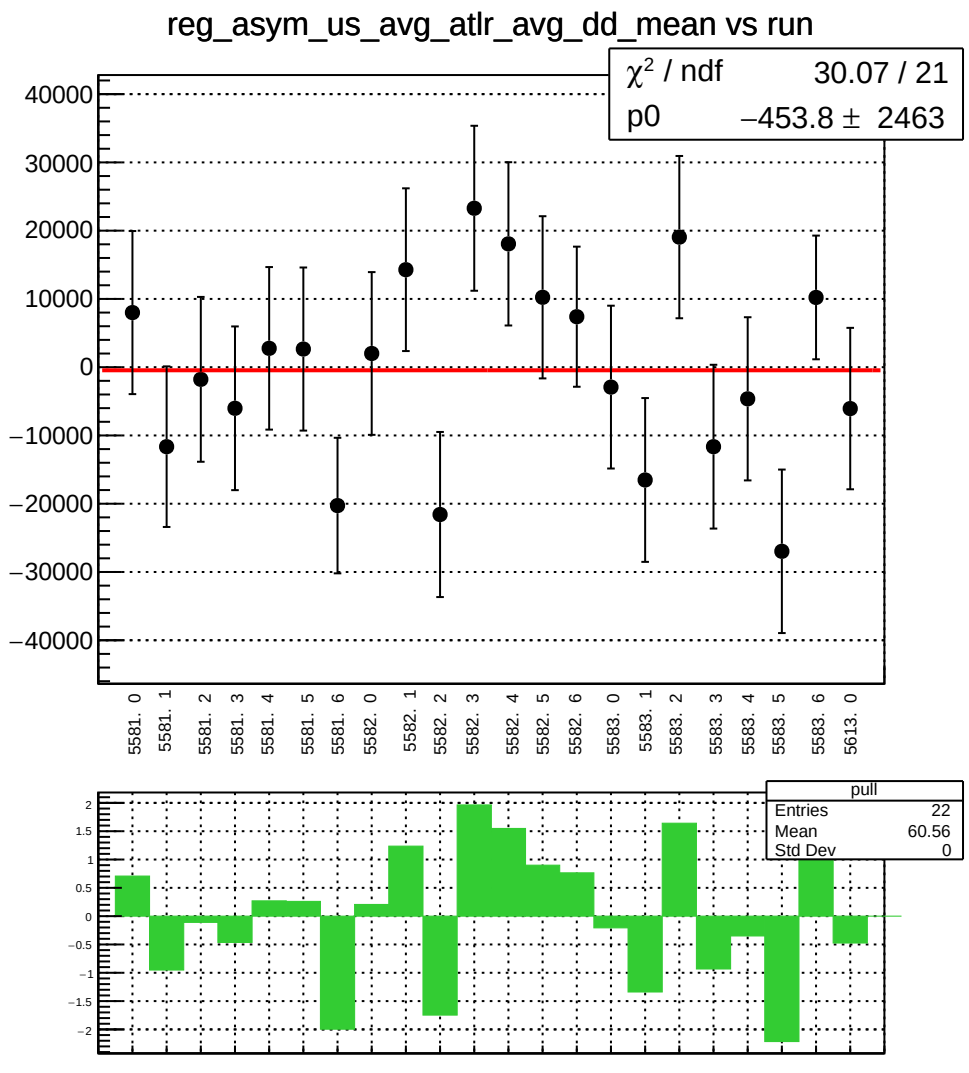

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.62 / 32
p0 0.2364 ± 0.2803
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1397
Std Dev 0.9042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

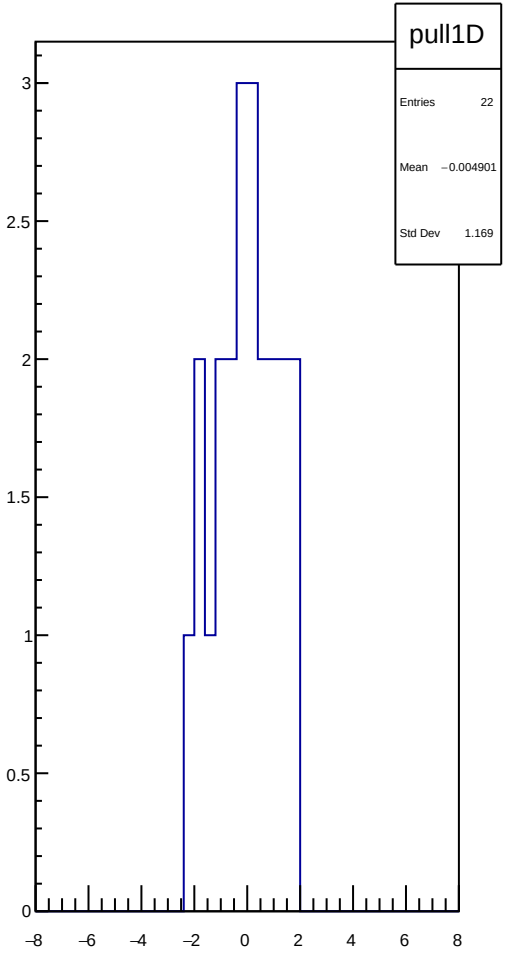

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 32
p0 132.1 ± 0.1982
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

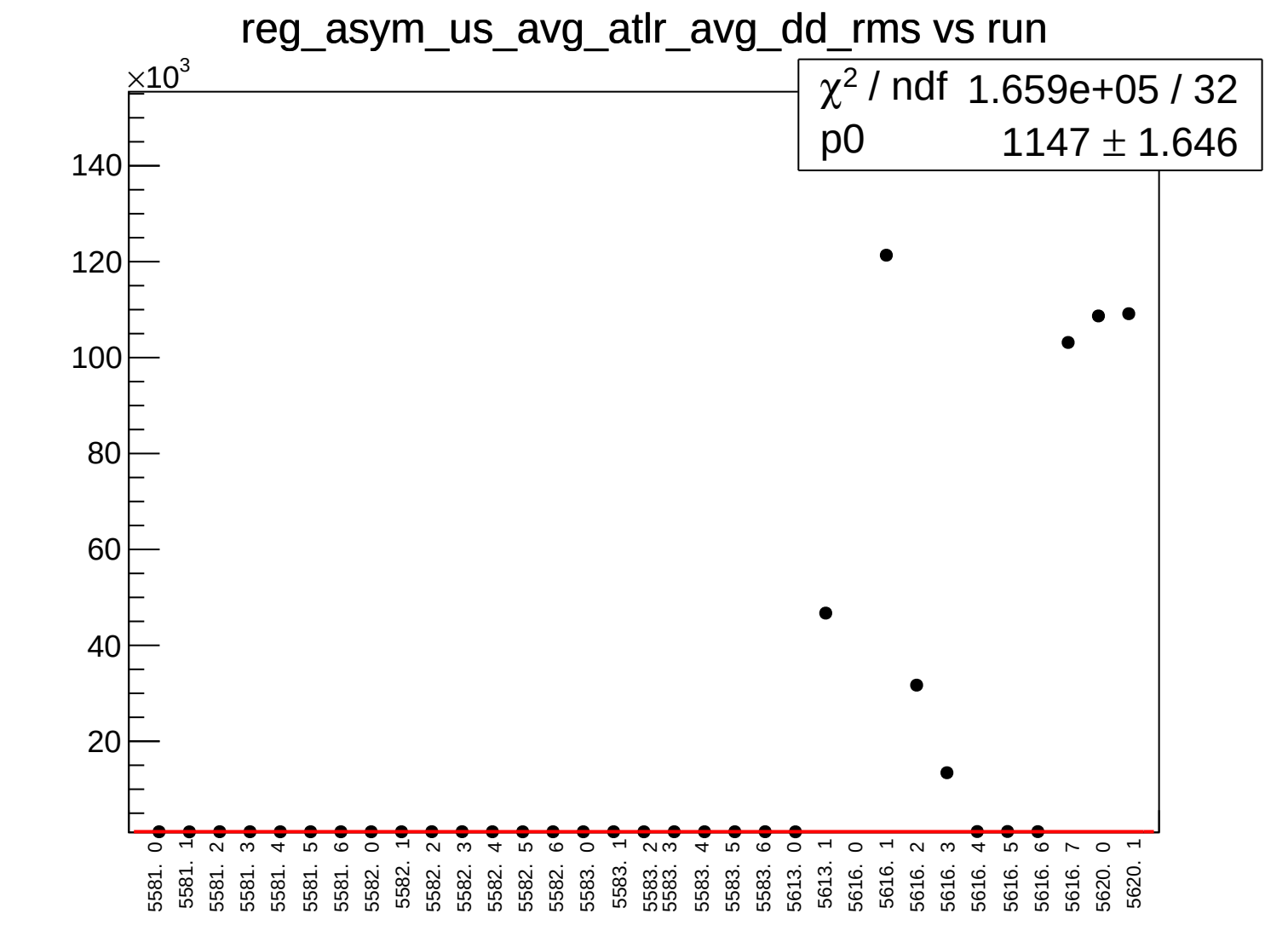

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 18.47 / 25
p0 2.198e−13 ± 1.283e−13
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 10.03
Std Dev 12.01
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

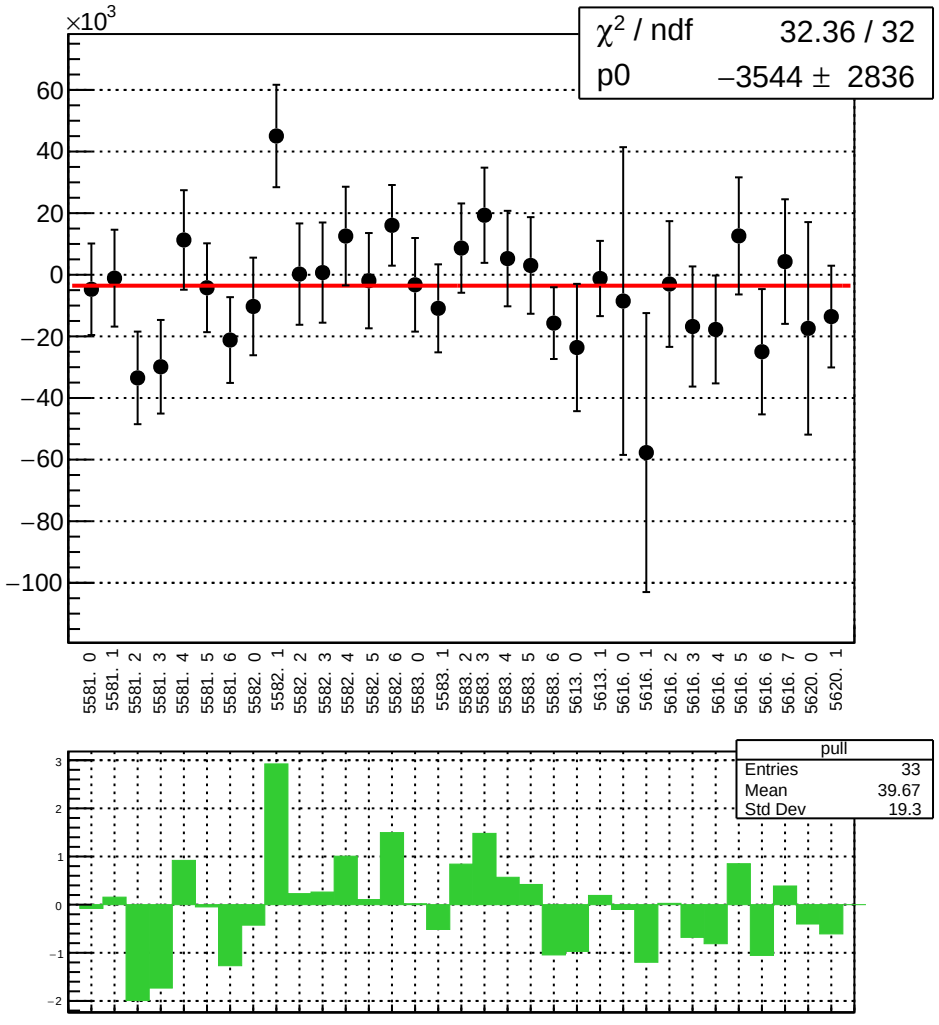

pull1D
Entries 26
Mean −0.1299
Std Dev 0.8328
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

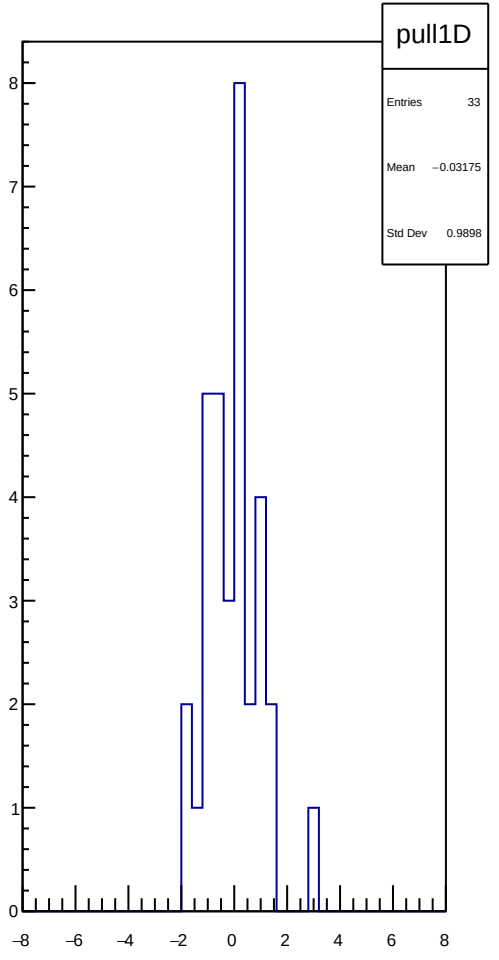

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.391e+05 / 25
p0 3.842e−11 ± 9.075e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

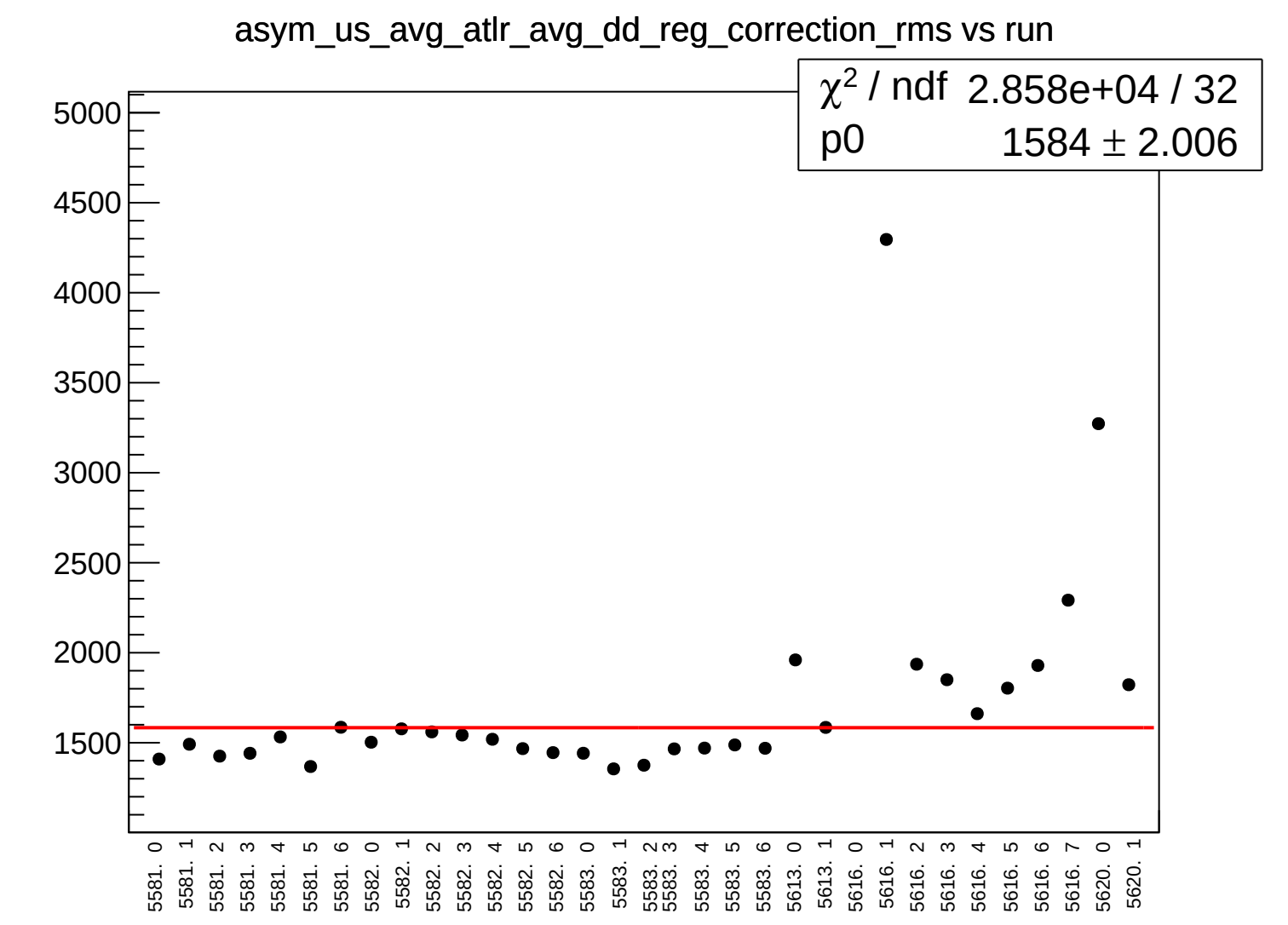

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 30.07 / 21
p0 −453.8 ± 2463
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 60.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

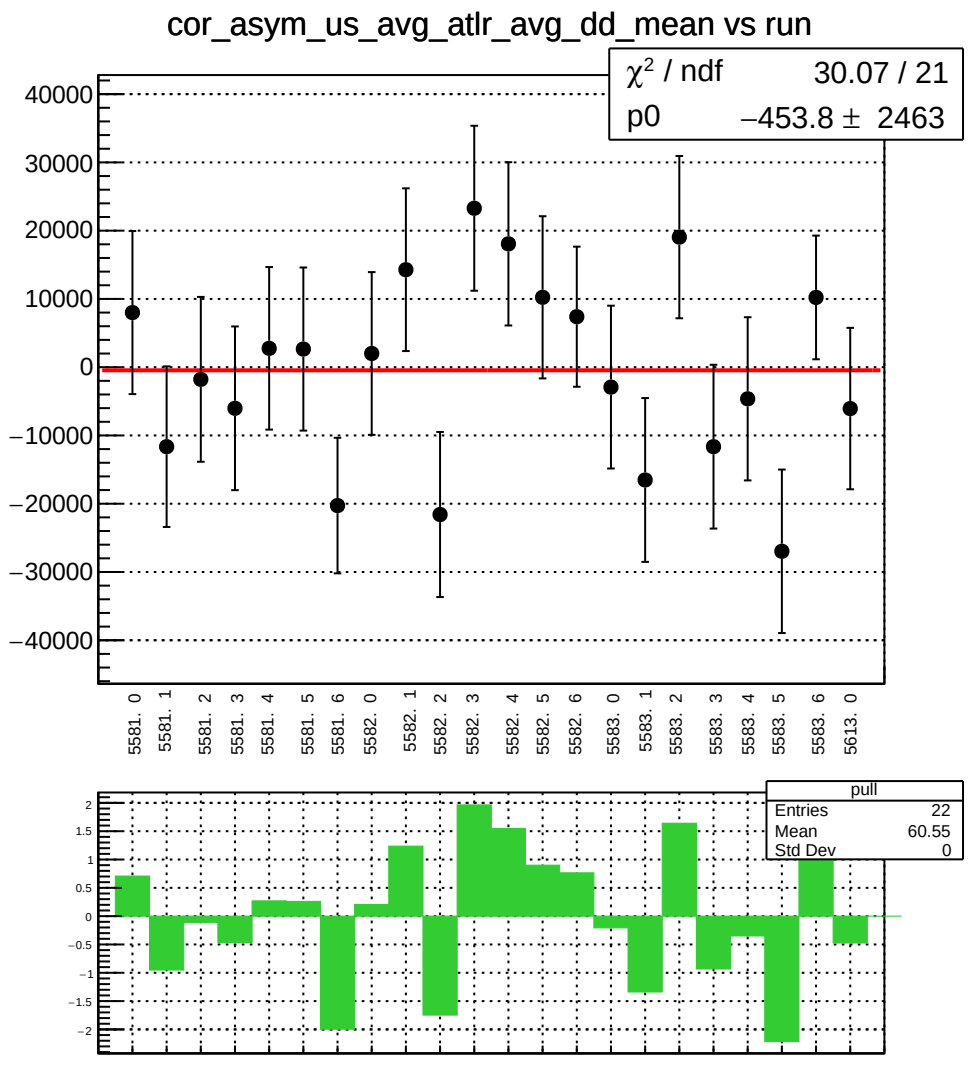

pull1D
Entries 22
Mean −0.004901
Std Dev 1.169
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

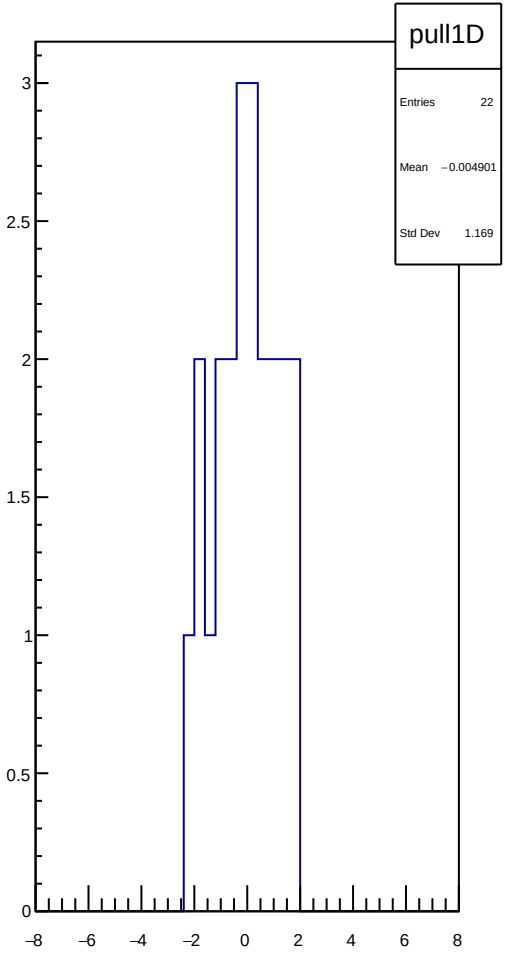

reg_asym_us_avg_atlr_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.659e+05 / 32
p0 1147 ± 1.646
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

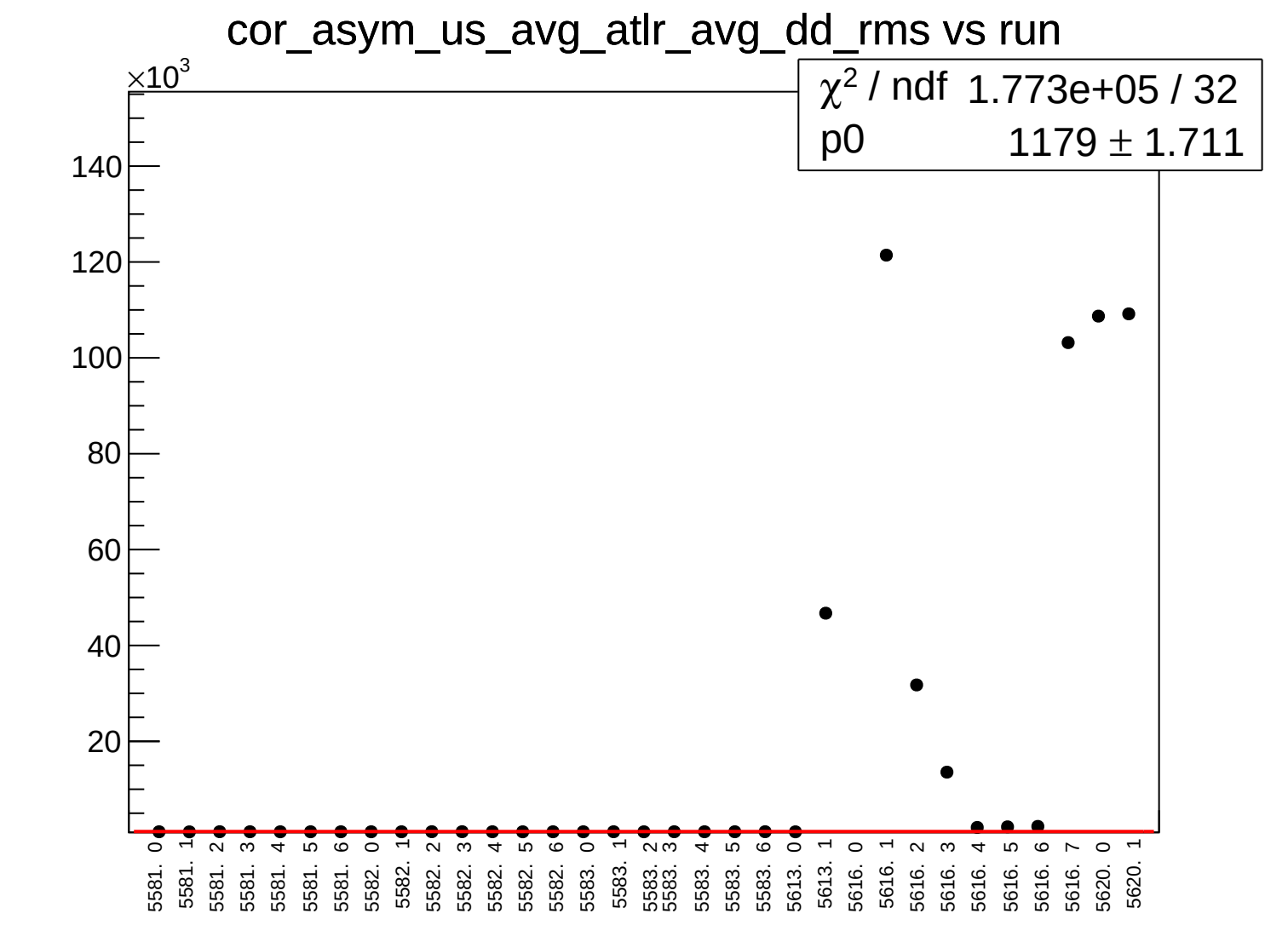

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
χ² / ndf 32.36 / 32
p0 −3544 ± 2836
×10³
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.67
Std Dev 19.3
3
2
1
0
−1
−2

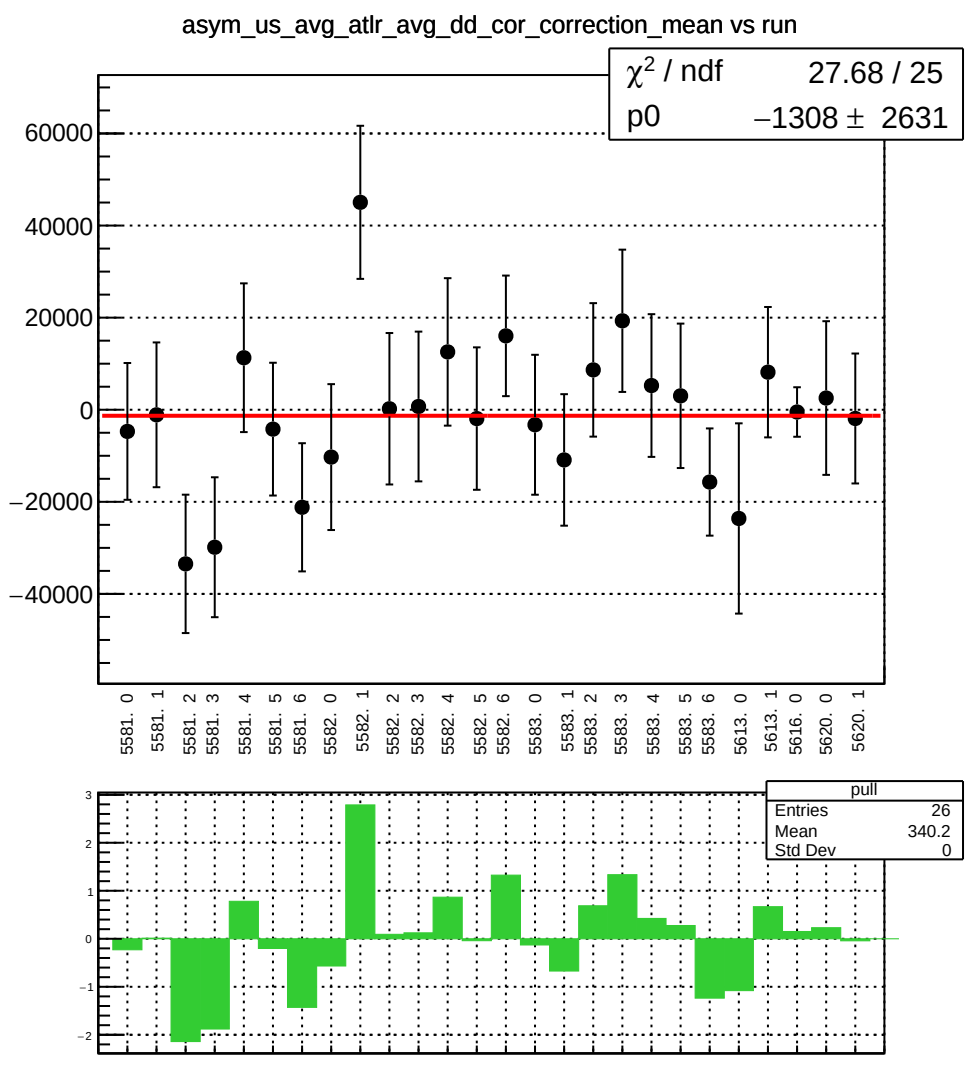

pull1D
Entries 33
Mean −0.03175
Std Dev 0.9898
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

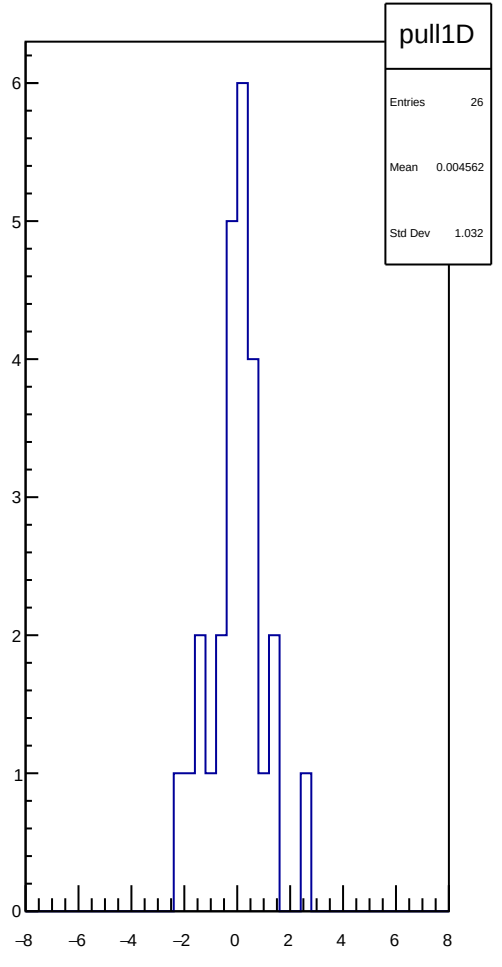

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 2.858e+04 / 32
p0 1584 ± 2.006
5000
4500
4000
3500
3000
2500
2000
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

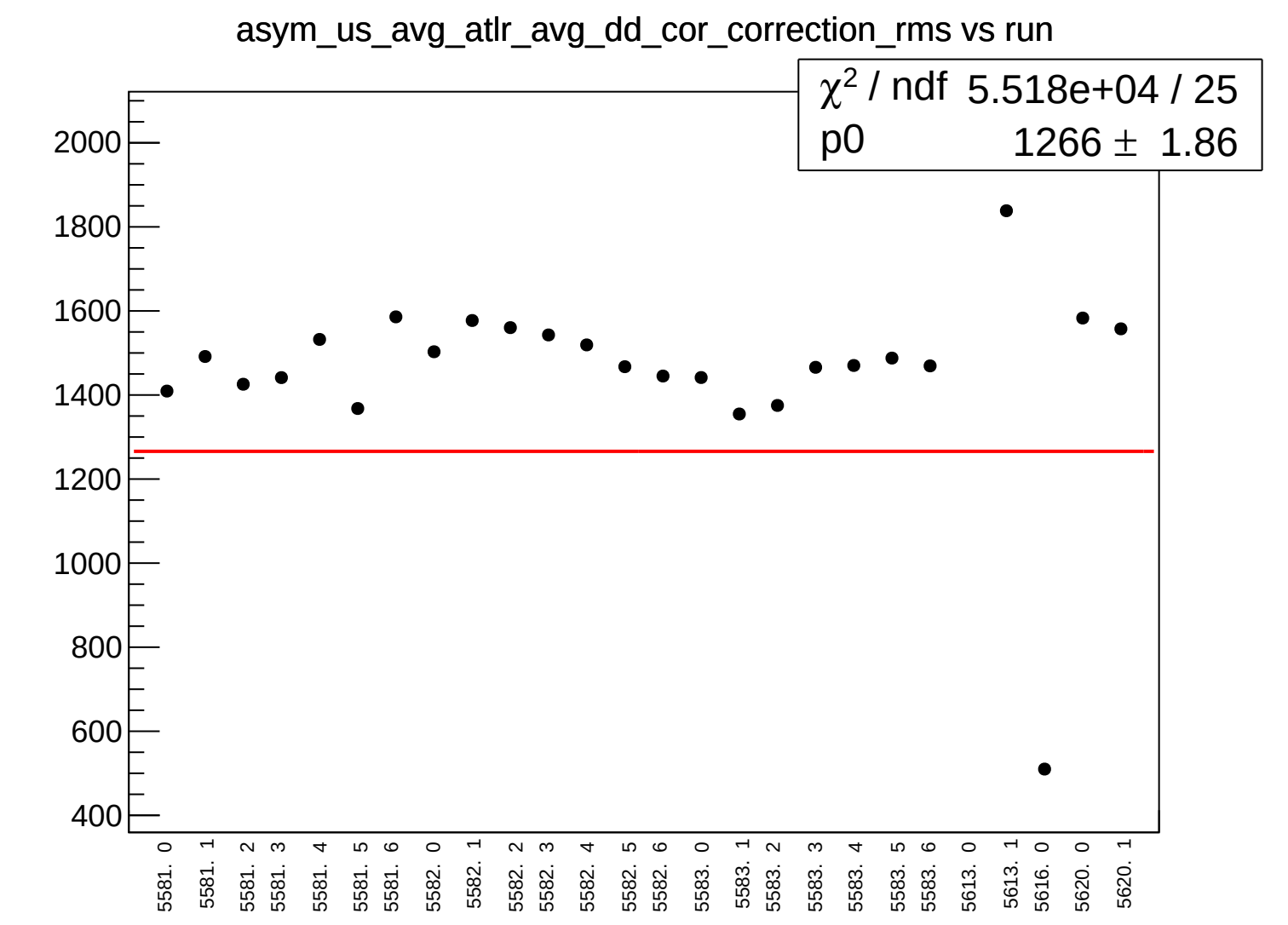

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 30.07 / 21
p0 −453.8 ± 2463
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 60.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

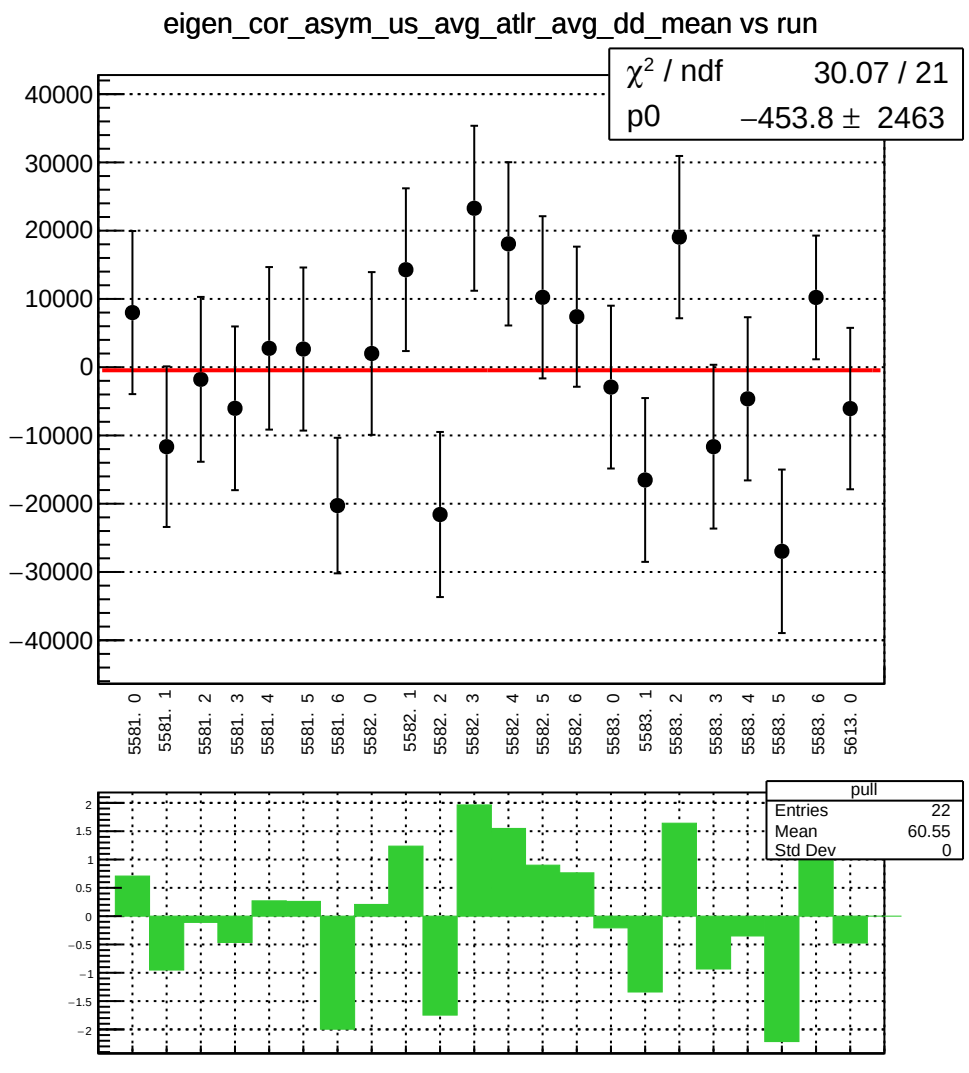

pull1D
Entries 22
Mean −0.004901
Std Dev 1.169
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

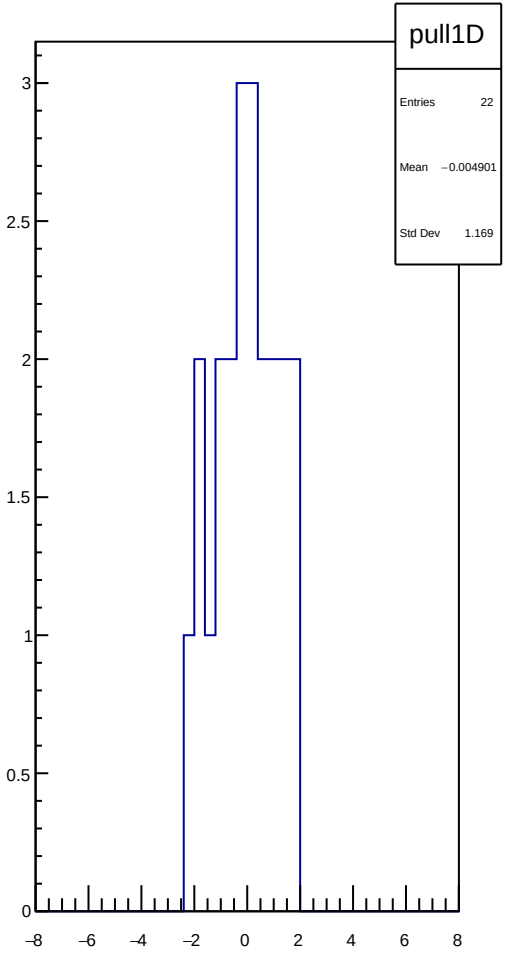

cor_asym_us_avg_atlr_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.773e+05 / 32
p0 1179 ± 1.711
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

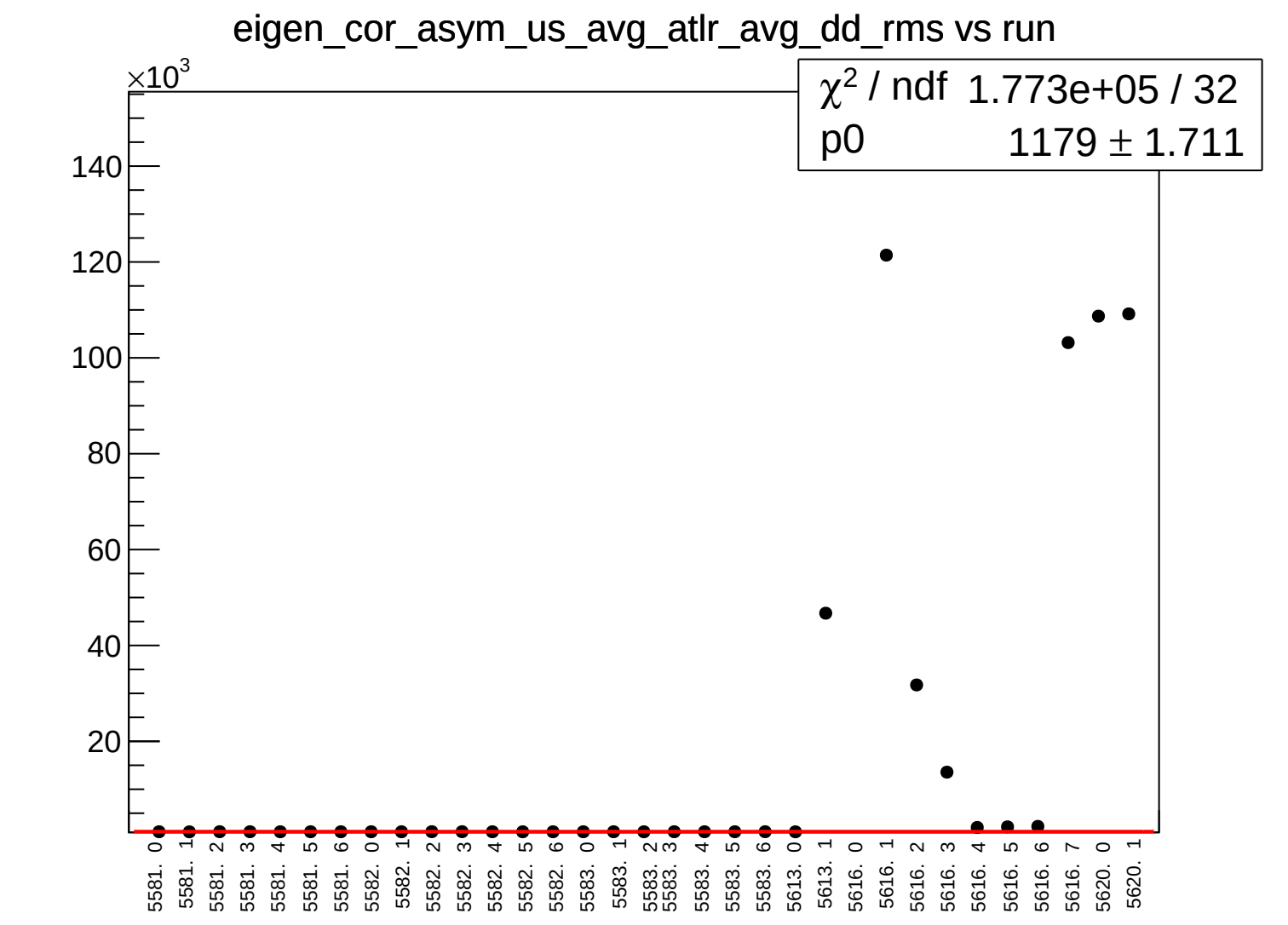

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
χ² / ndf 27.68 / 25
p0 −1308 ± 2631
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 340.2
Std Dev 0
3
2
1
0
−1
−2

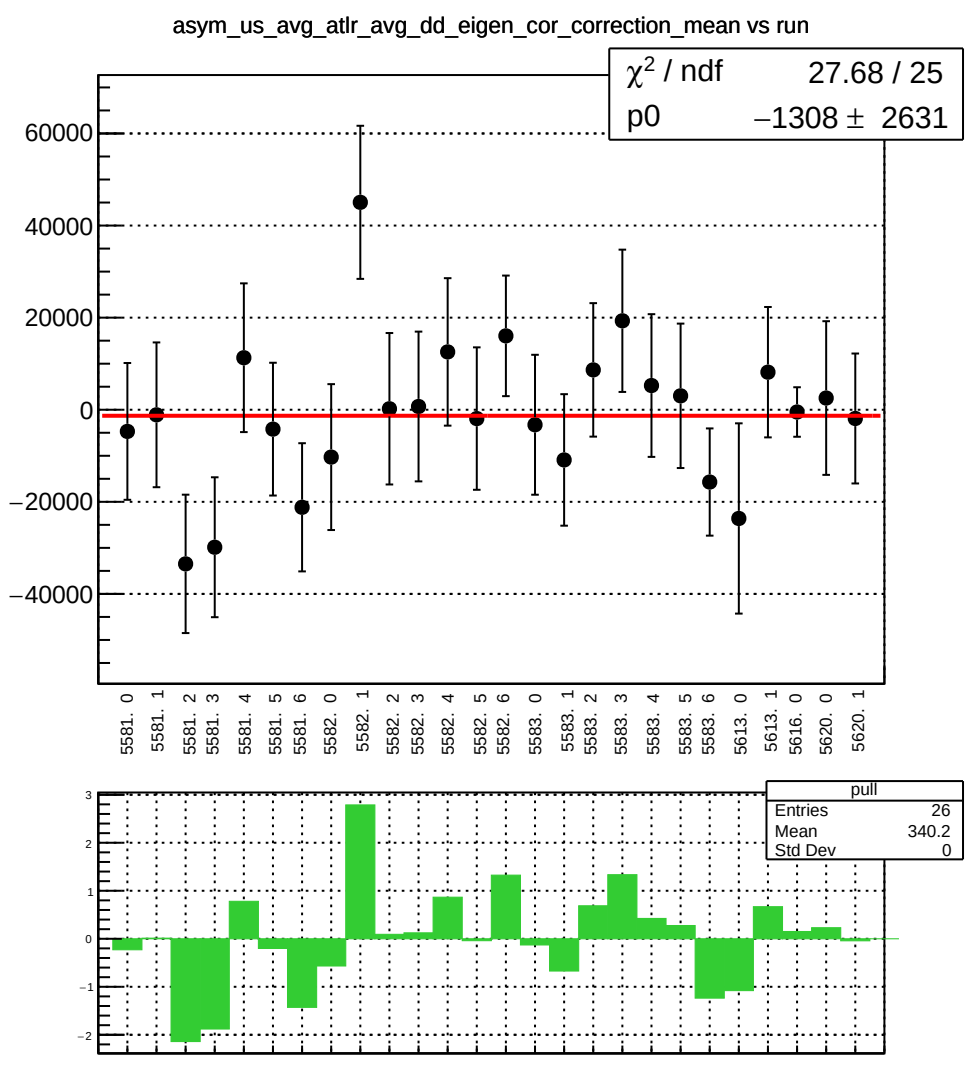

pull1D
Entries 26
Mean 0.004562
Std Dev 1.032
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

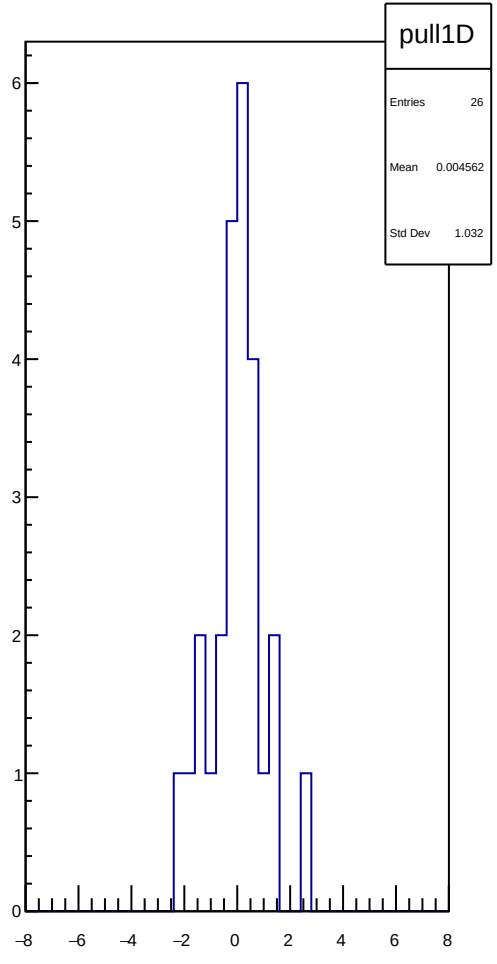

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 5.518e+04 / 25
p0 1266 ± 1.86
2000
1800
1600
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

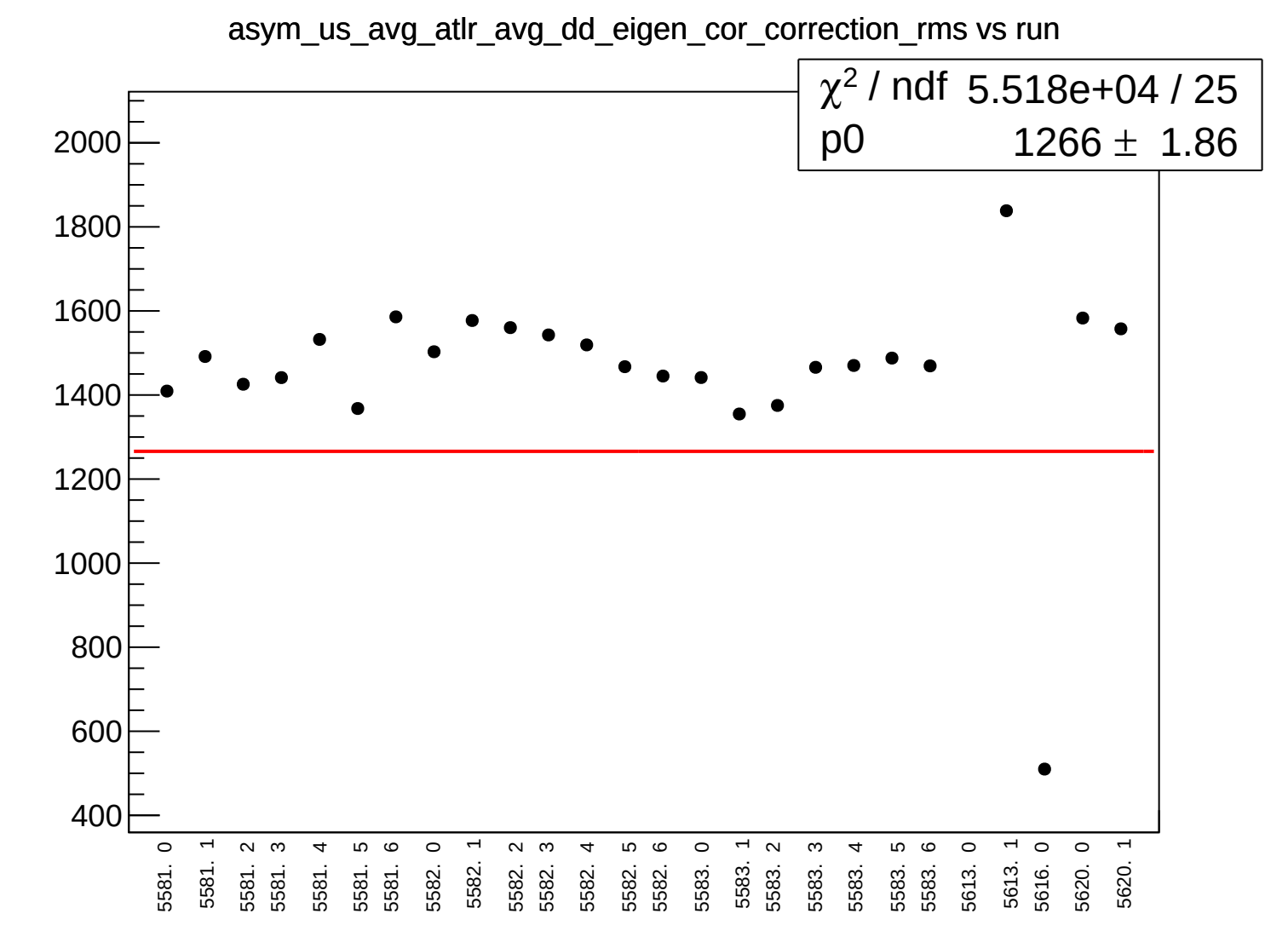

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 30.07 / 21
p0 −453.8 ± 2463
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 60.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

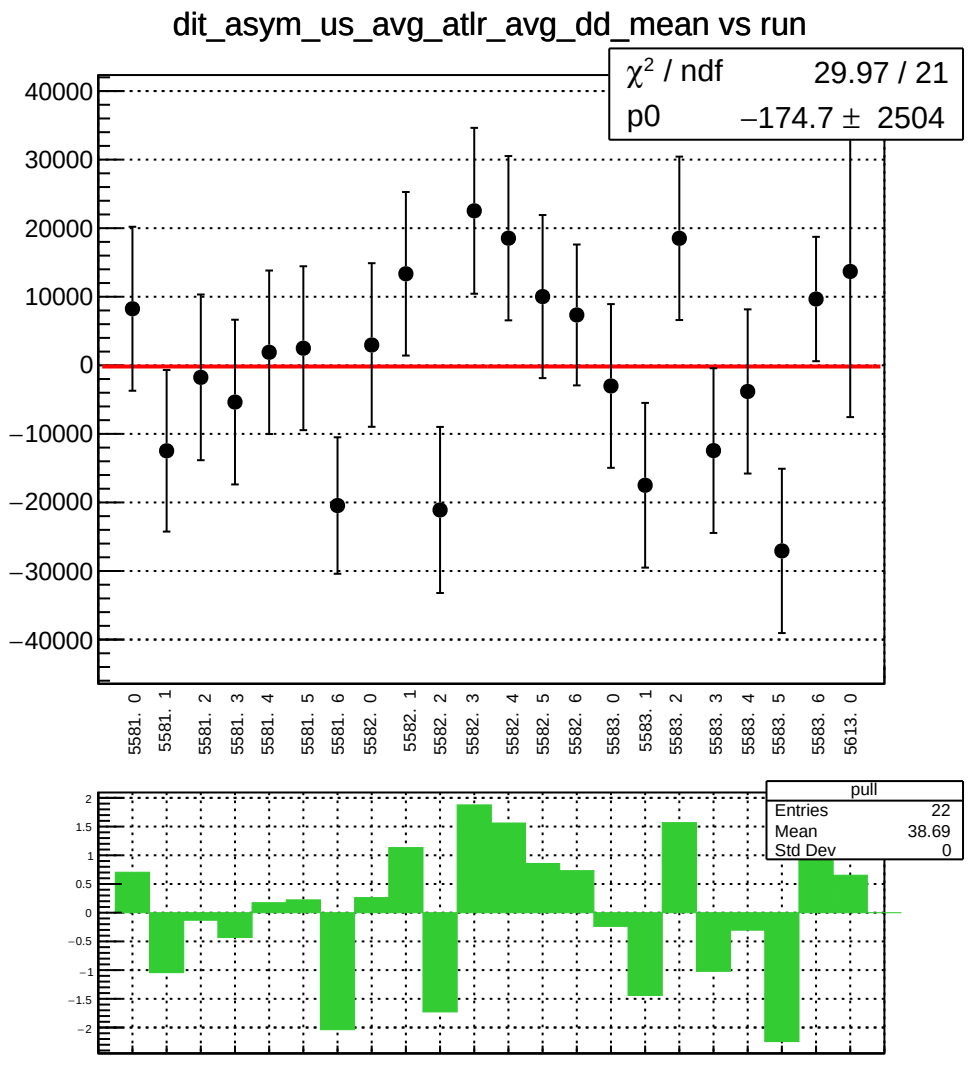

pull1D
Entries 22
Mean −0.004901
Std Dev 1.169
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

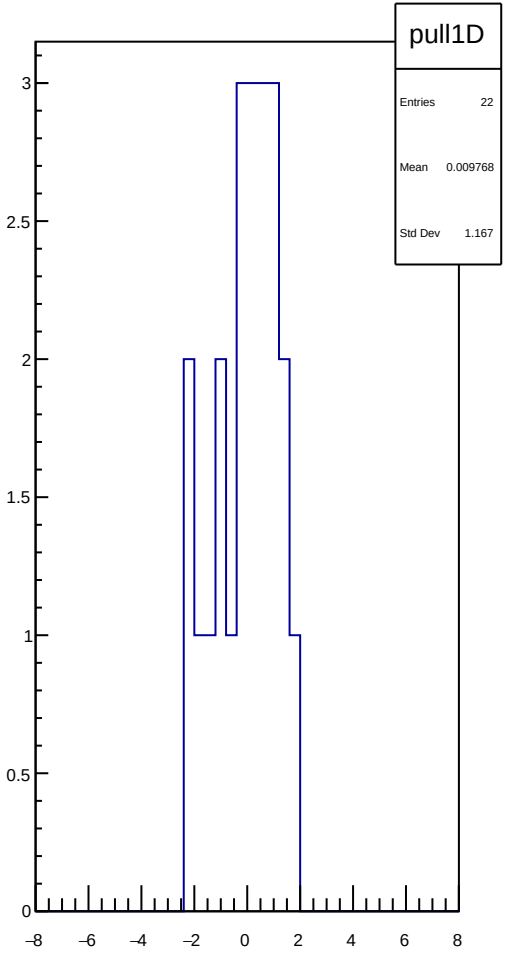

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.773e+05 / 32
p0 1179 ± 1.711
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

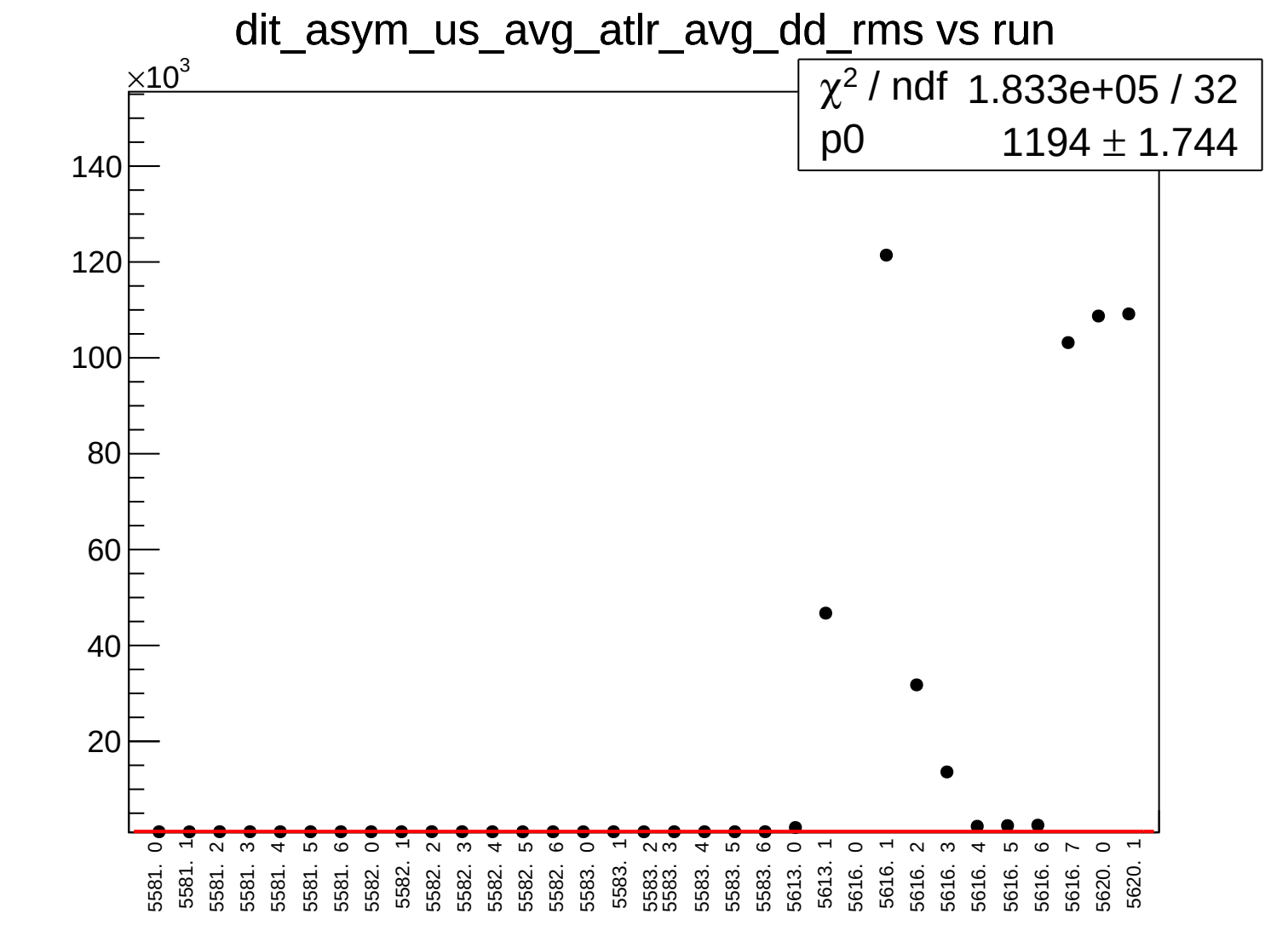

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 27.68 / 25
p0 −1308 ± 2631
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 340.2
Std Dev 0
3
2
1
0
−1
−2

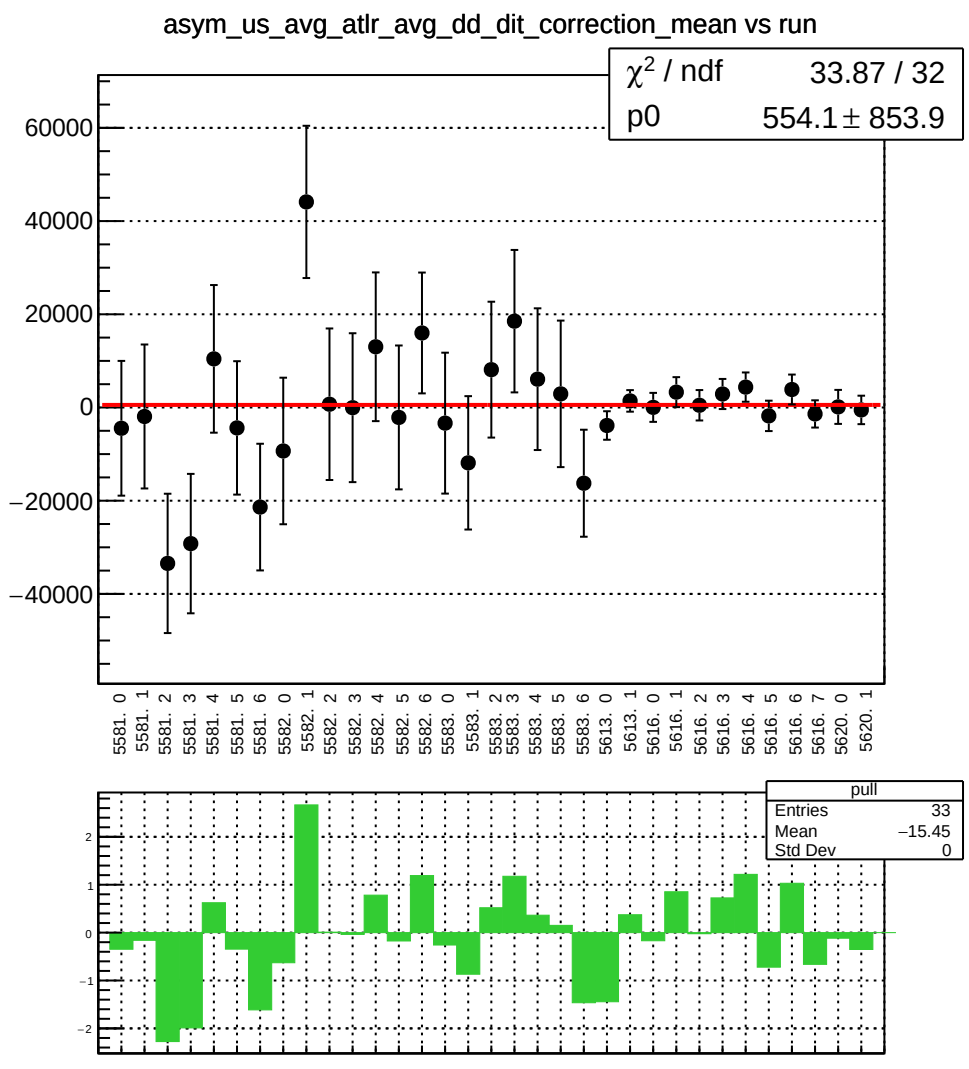

pull1D
Entries 26
Mean 0.004562
Std Dev 1.032
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

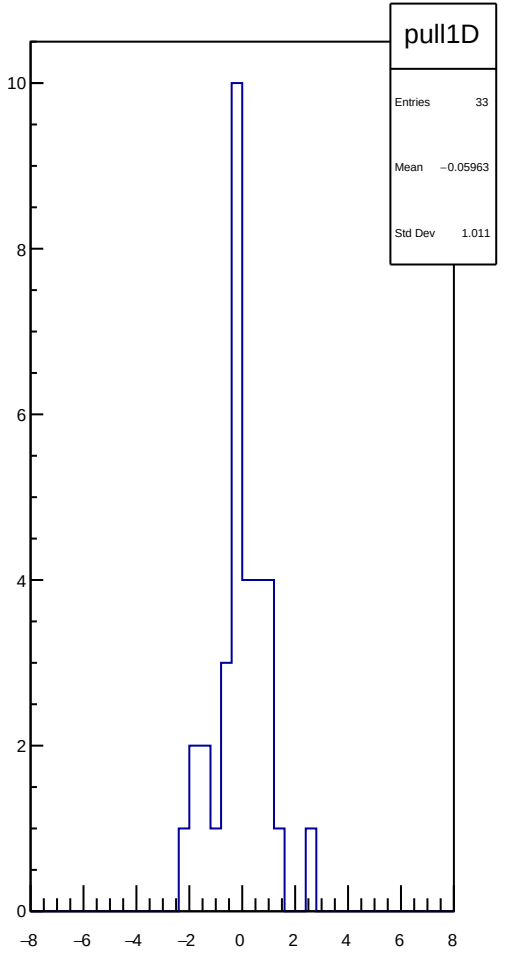

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.518e+04 / 25
p0 1266 ± 1.86
2000
1800
1600
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

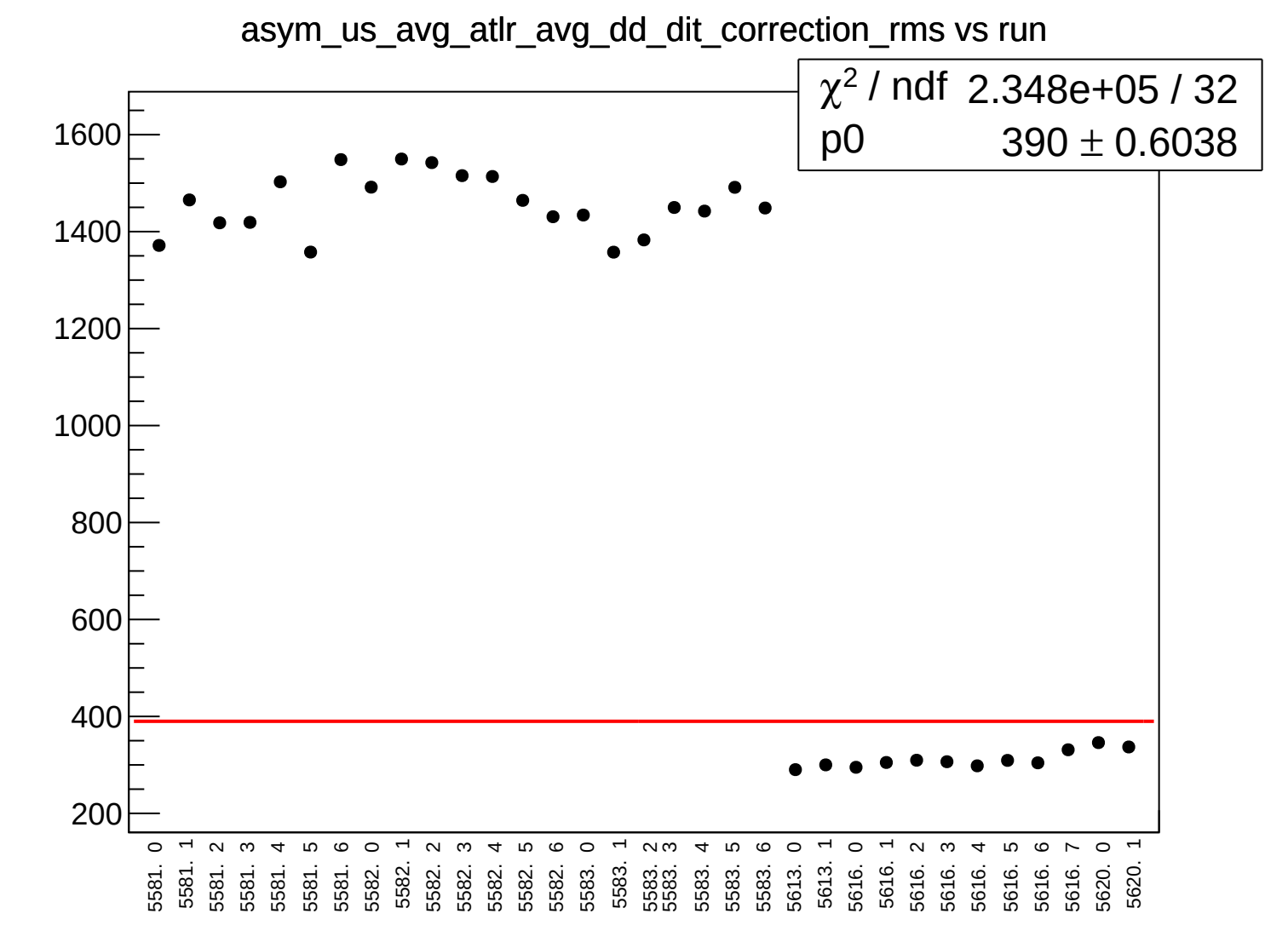

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 29.97 / 21
p0 −174.7 ± 2504
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 38.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

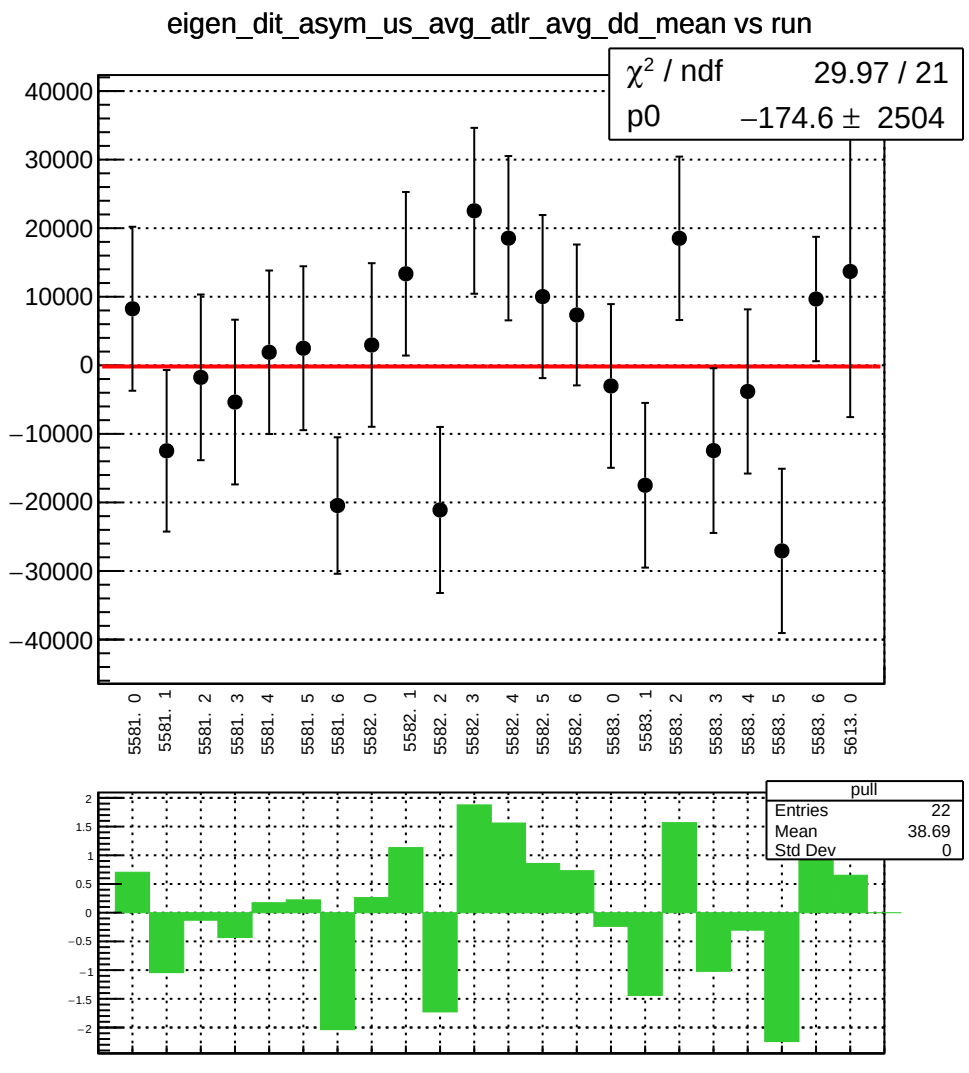

pull1D
Entries 22
Mean 0.009768
Std Dev 1.167
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

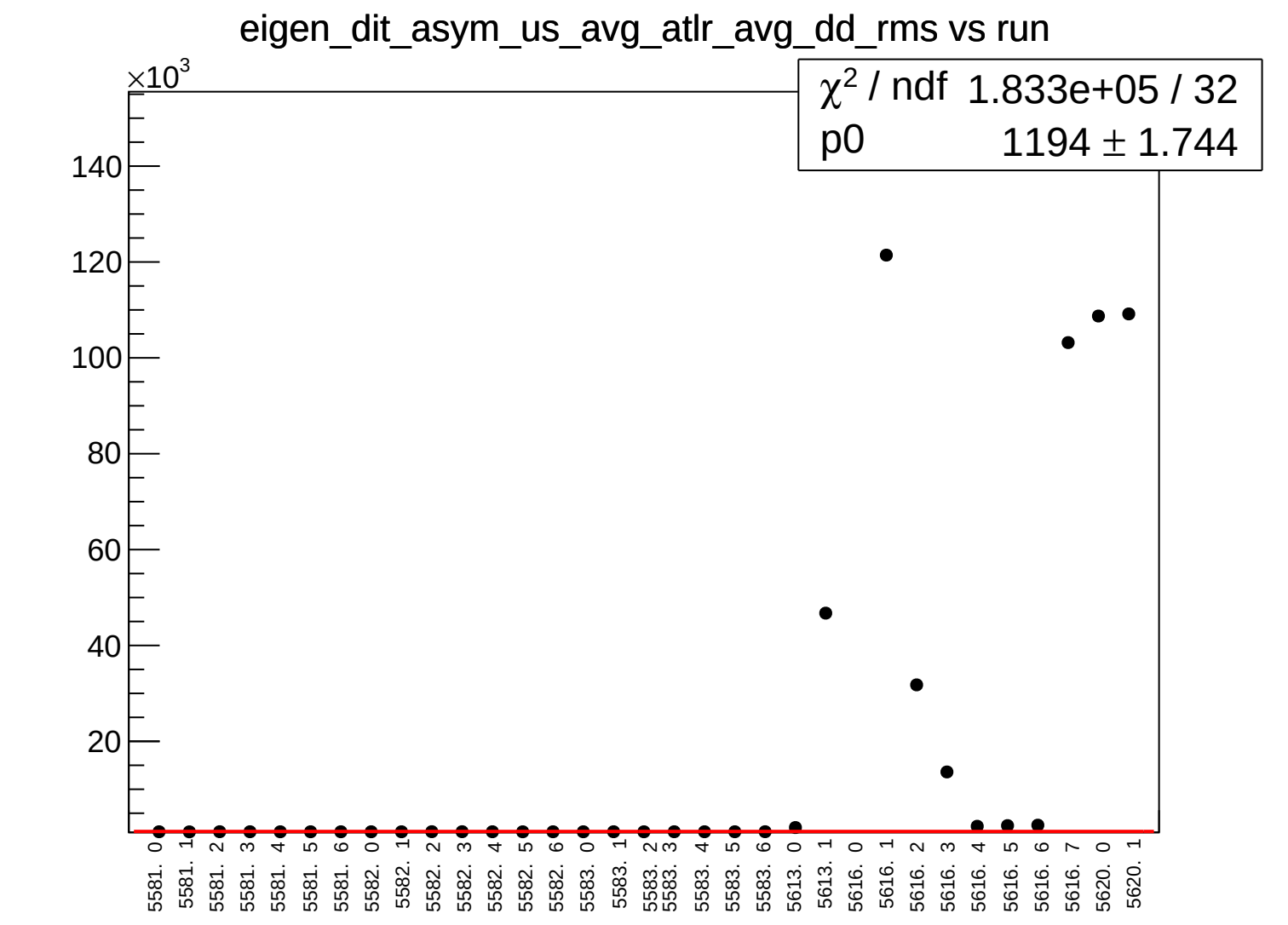

dit_asym_us_avg_atlr_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.833e+05 / 32
p0 1194 ± 1.744
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

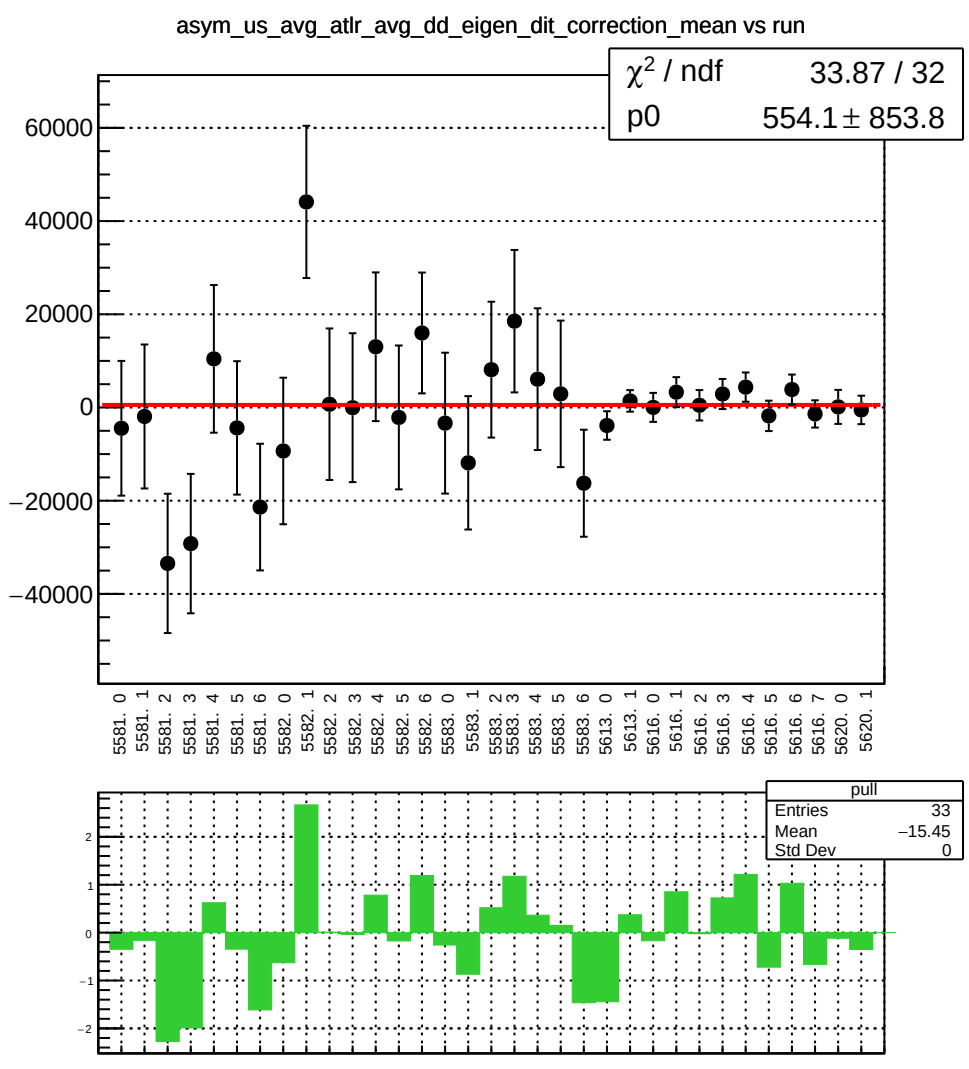

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
χ² / ndf 33.87 / 32
p0 554.1 ± 853.9
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −15.45
Std Dev 0
2
1
0
−1
−2

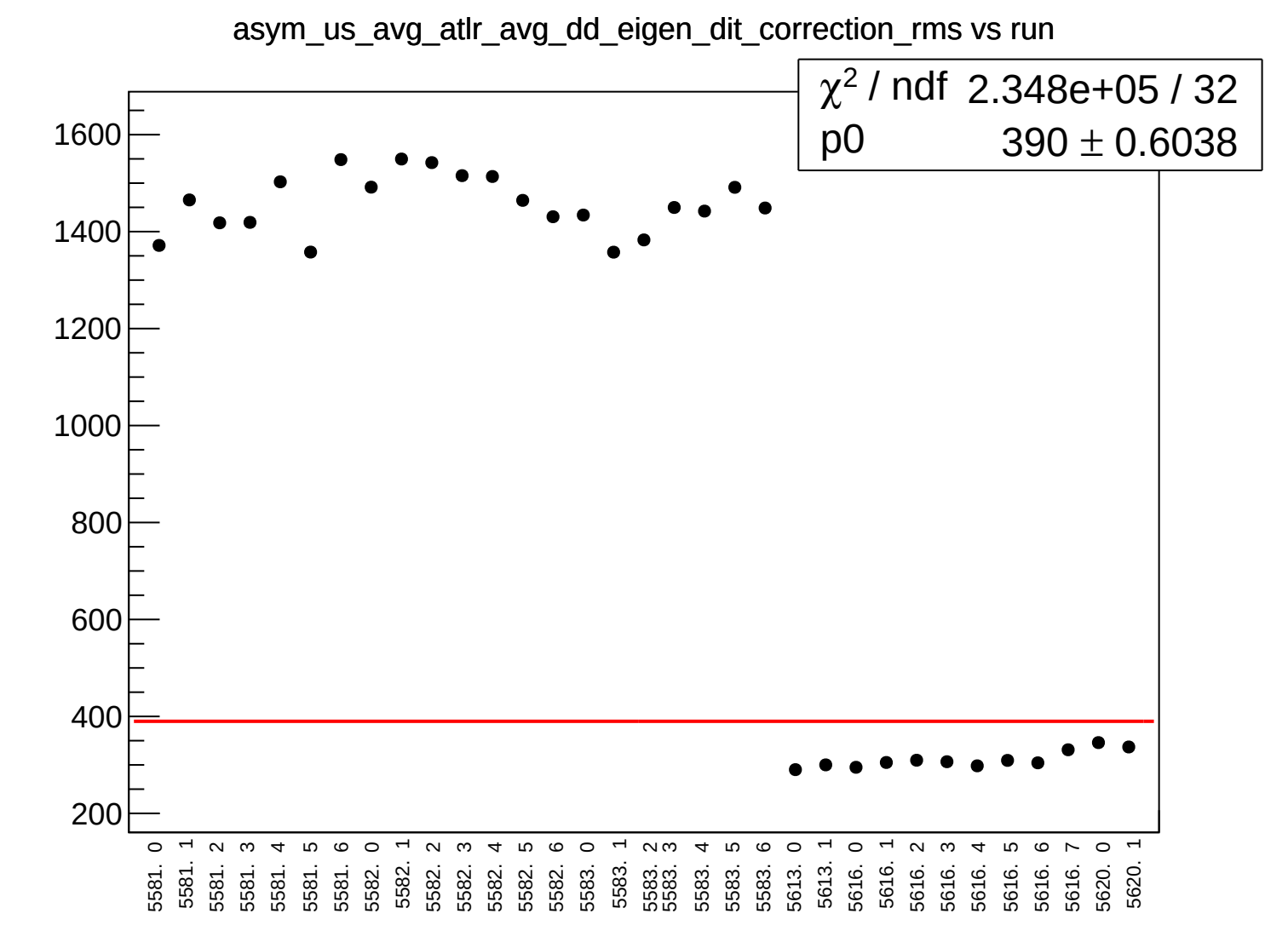

pull1D
Entries 33
Mean −0.05963
Std Dev 1.011
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

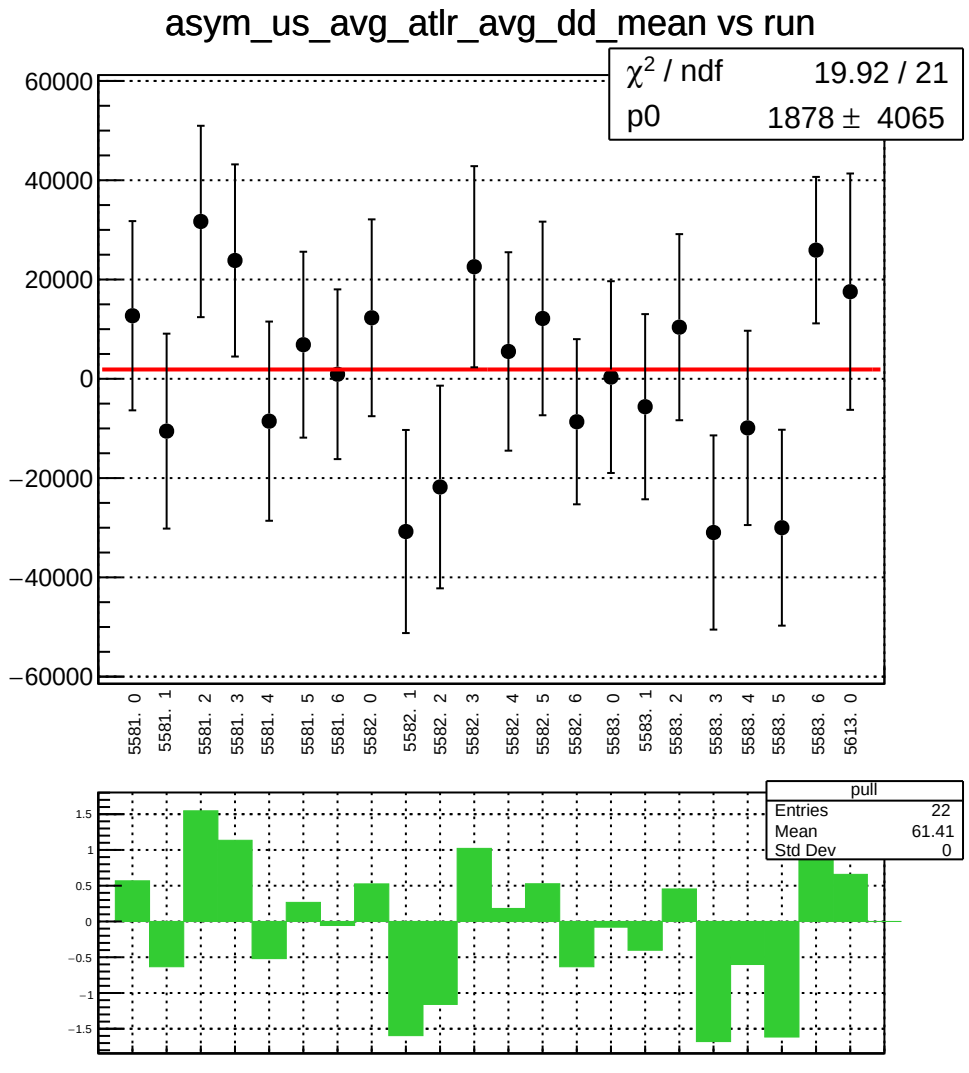

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 2.348e+05 / 32
p0 390 ± 0.6038
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

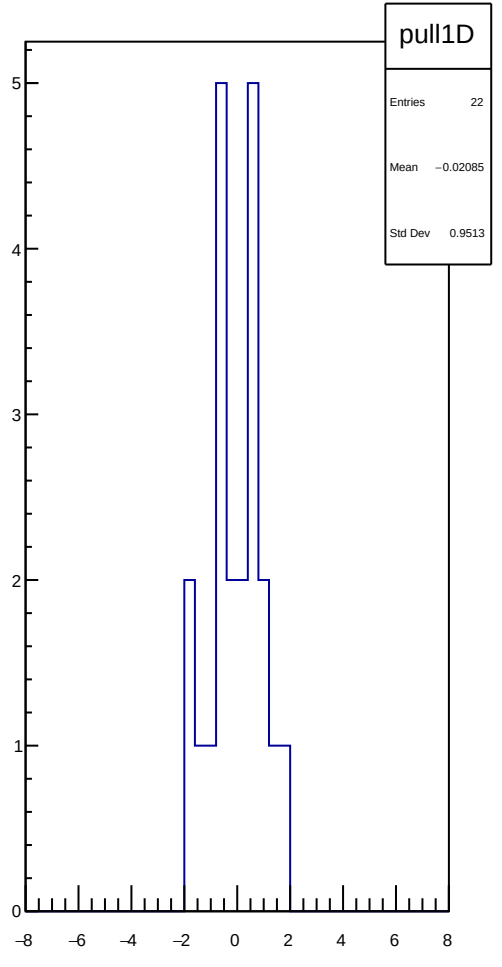

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 29.97 / 21
p0 −174.6 ± 2504
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 38.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 22
Mean 0.009768
Std Dev 1.167
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

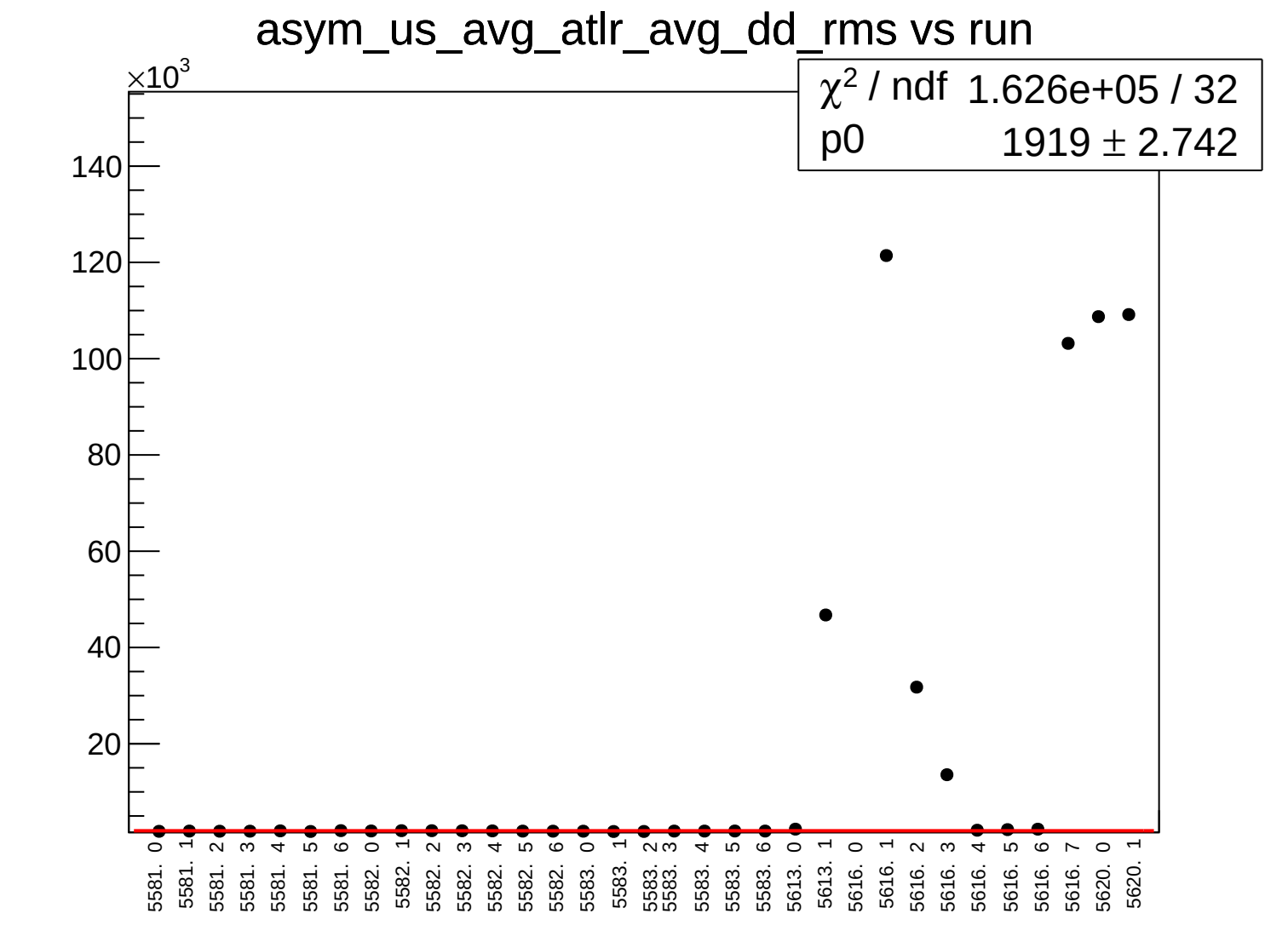

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.833e+05 / 32
p0 1194 ± 1.744
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

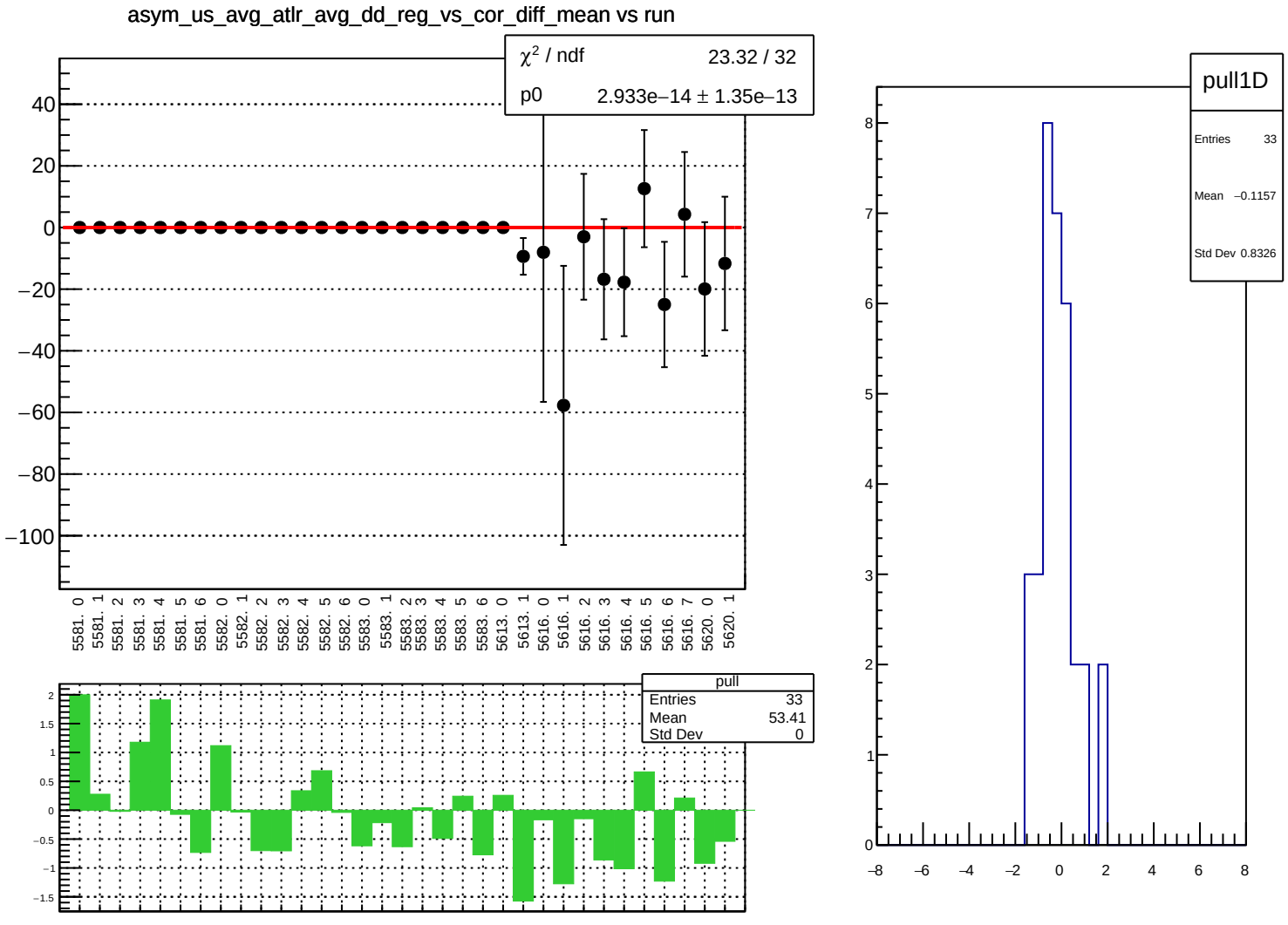

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 33.87 / 32
p0 554.1 ± 853.8
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −15.45
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.05963
Std Dev 1.011
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

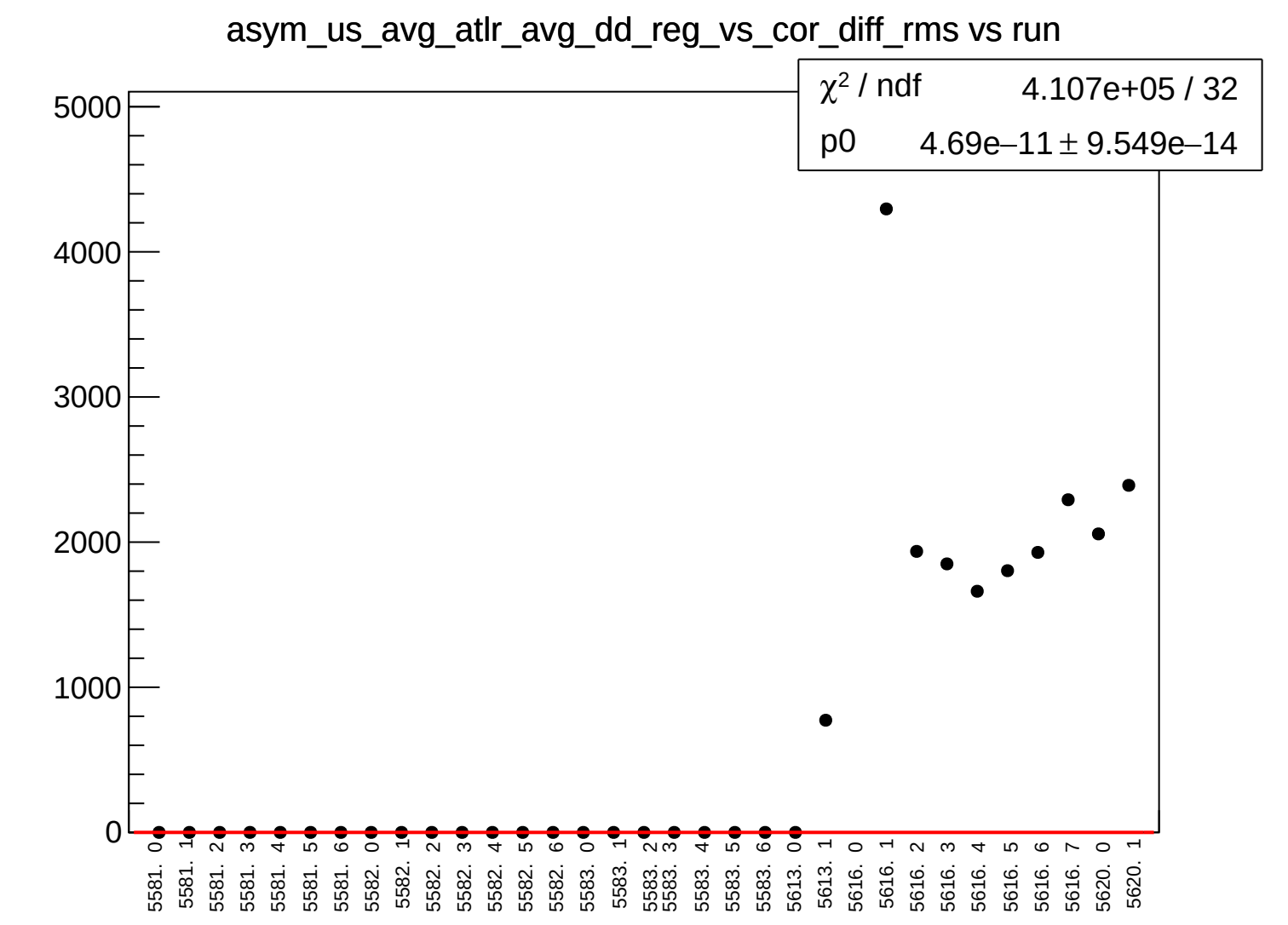

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.348e+05 / 32
p0 390 ± 0.6038
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

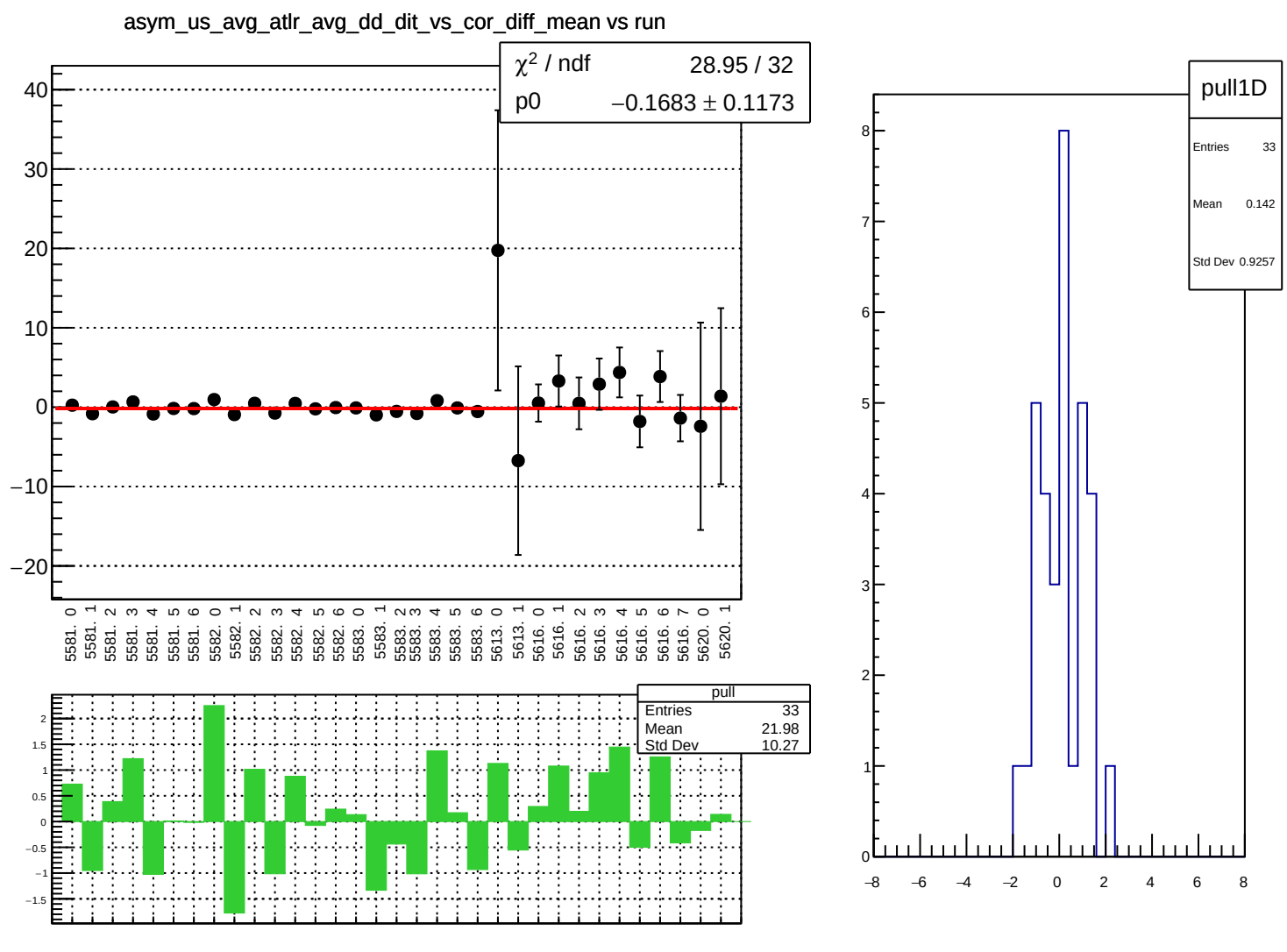

asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 19.92 / 21
p0 1878 ± 4065
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
pull
Entries 22
Mean 61.41
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

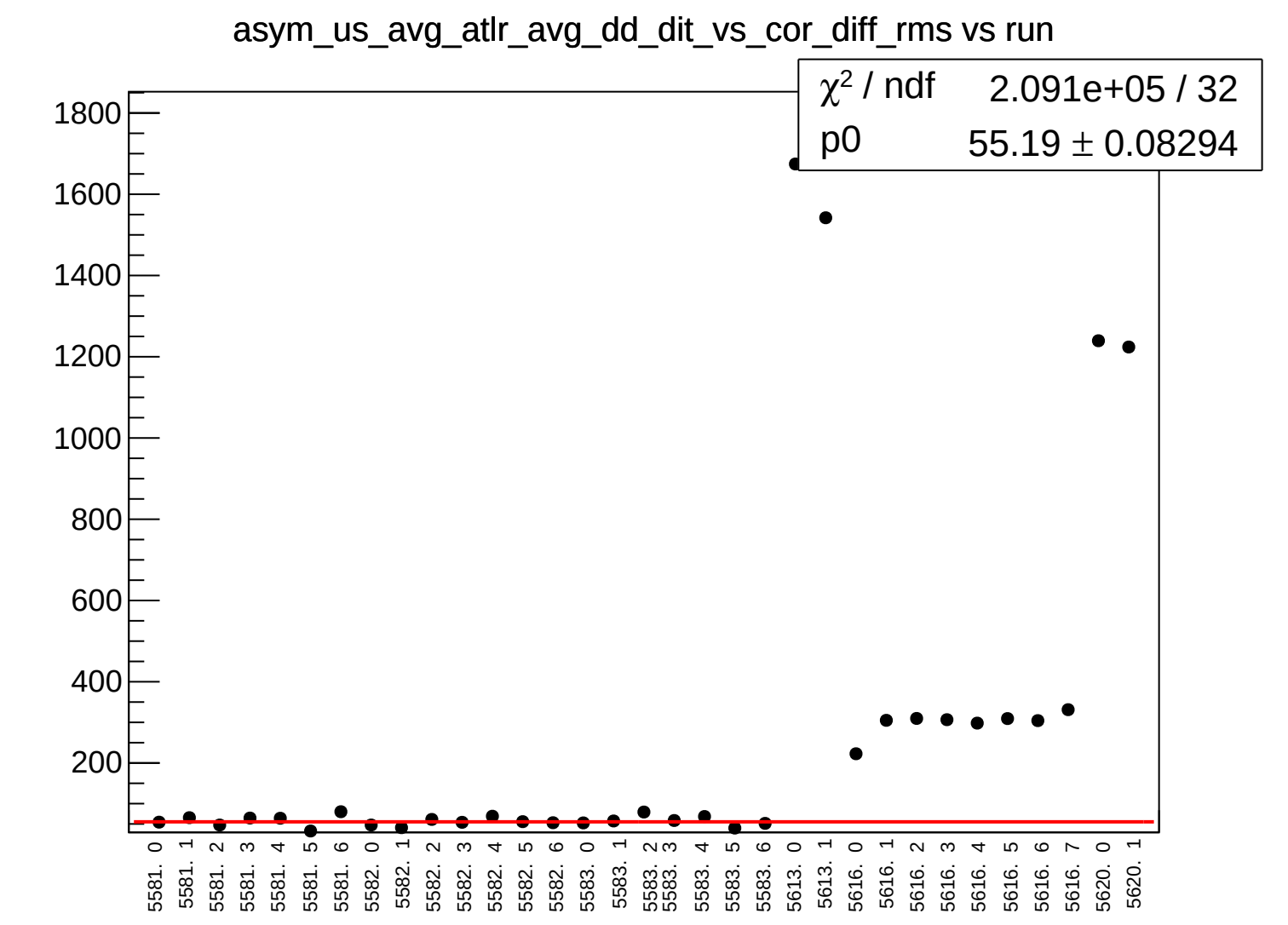

pull1D
Entries 22
Mean −0.02085
Std Dev 0.9513
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

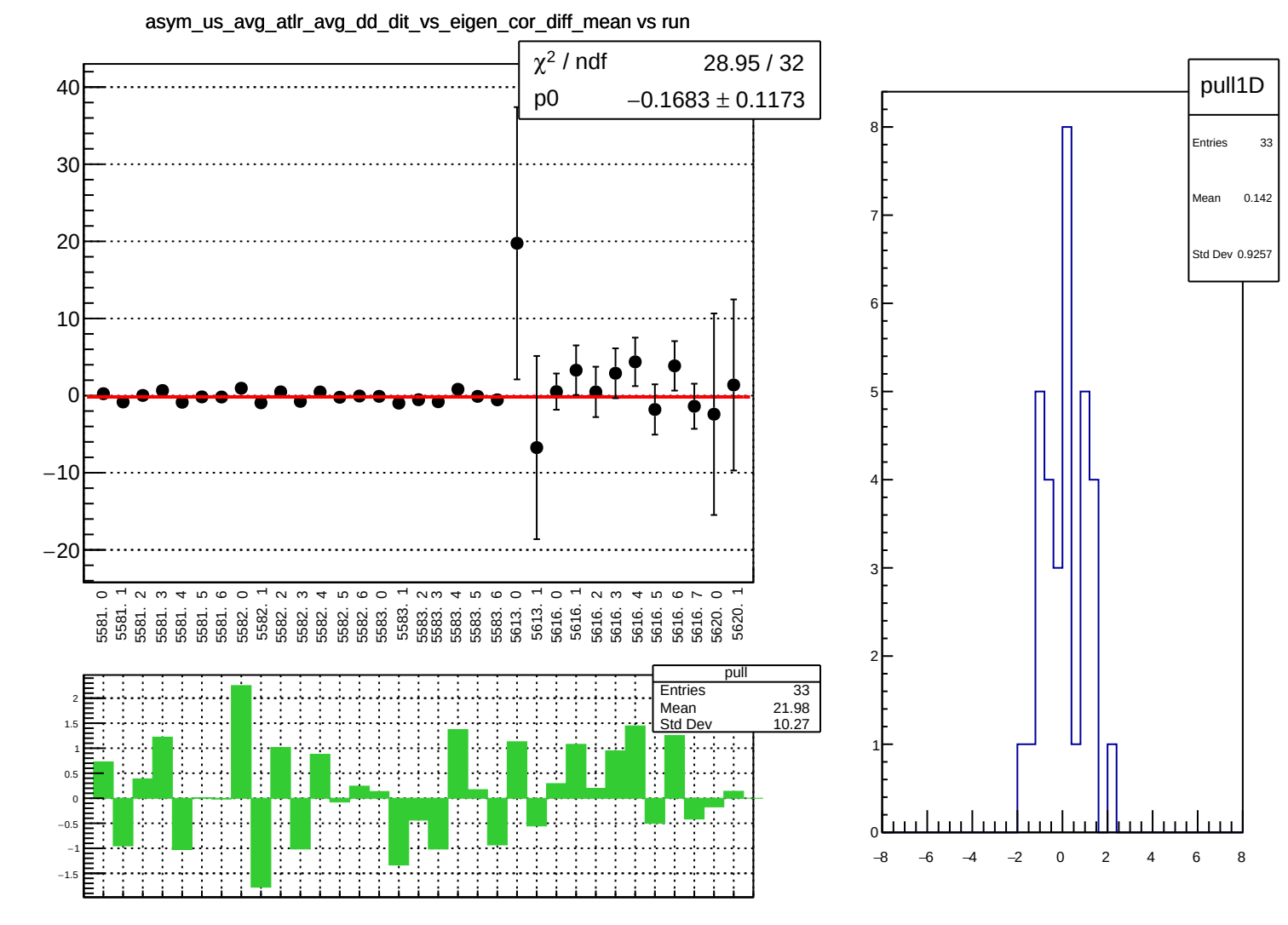

asym_us_avg_atlr_avg_dd_rms vs run
×10^3
χ^2 / ndf 1.626e+05 / 32
p0 1919 ± 2.742
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

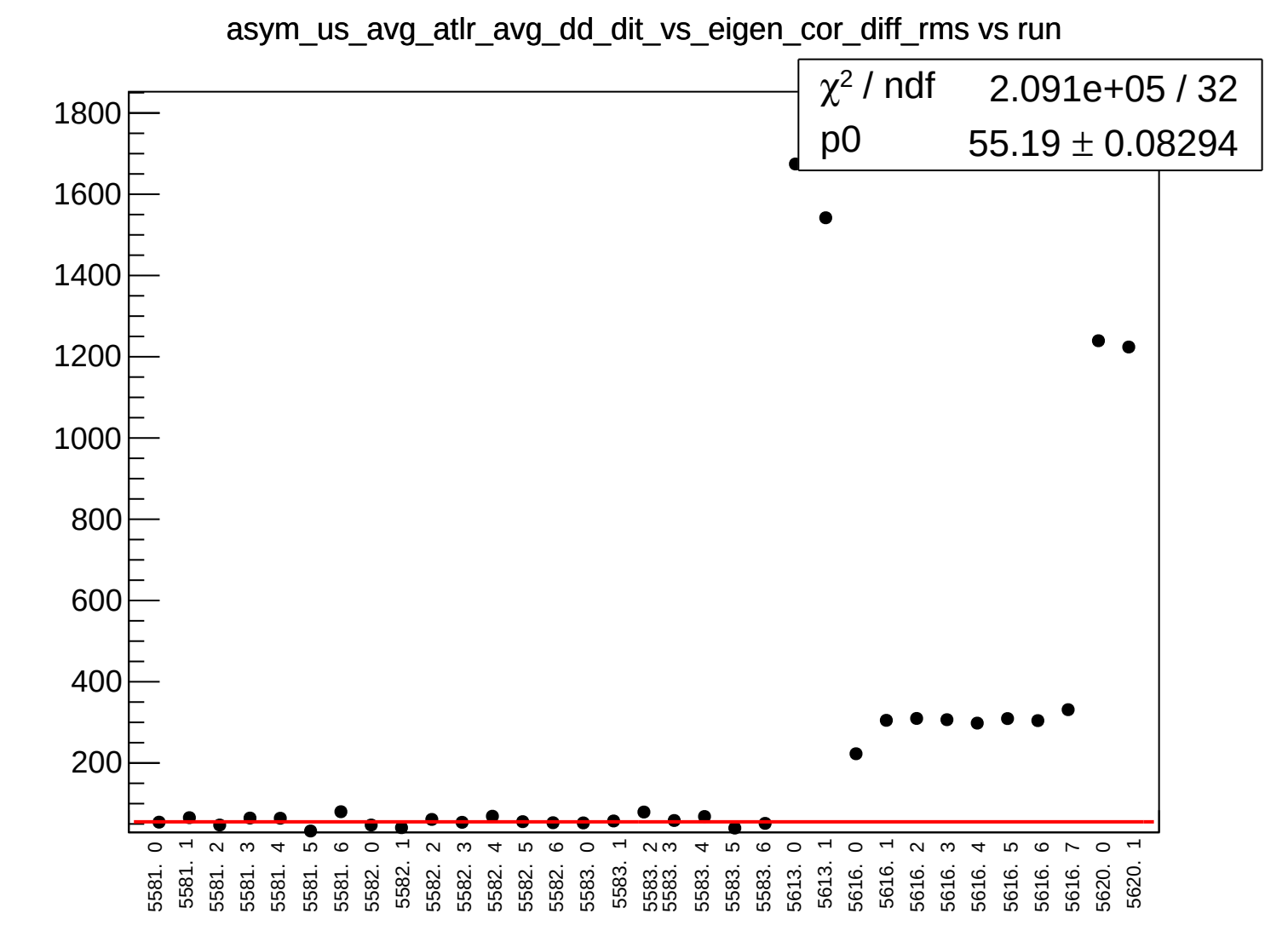

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 23.32 / 32
p0 2.933e−14 ± 1.35e−13
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 53.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1157
Std Dev 0.8326
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

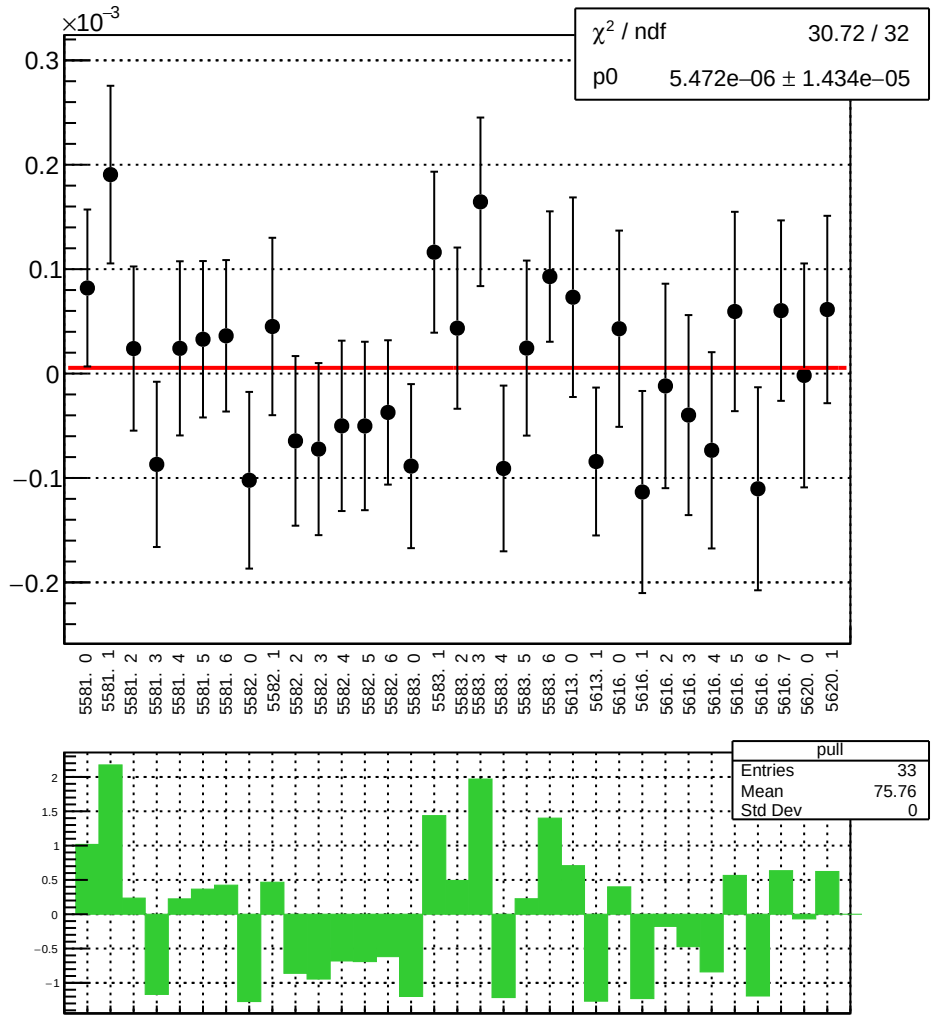

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.107e+05 / 32
p0 4.69e−11 ± 9.549e−14
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

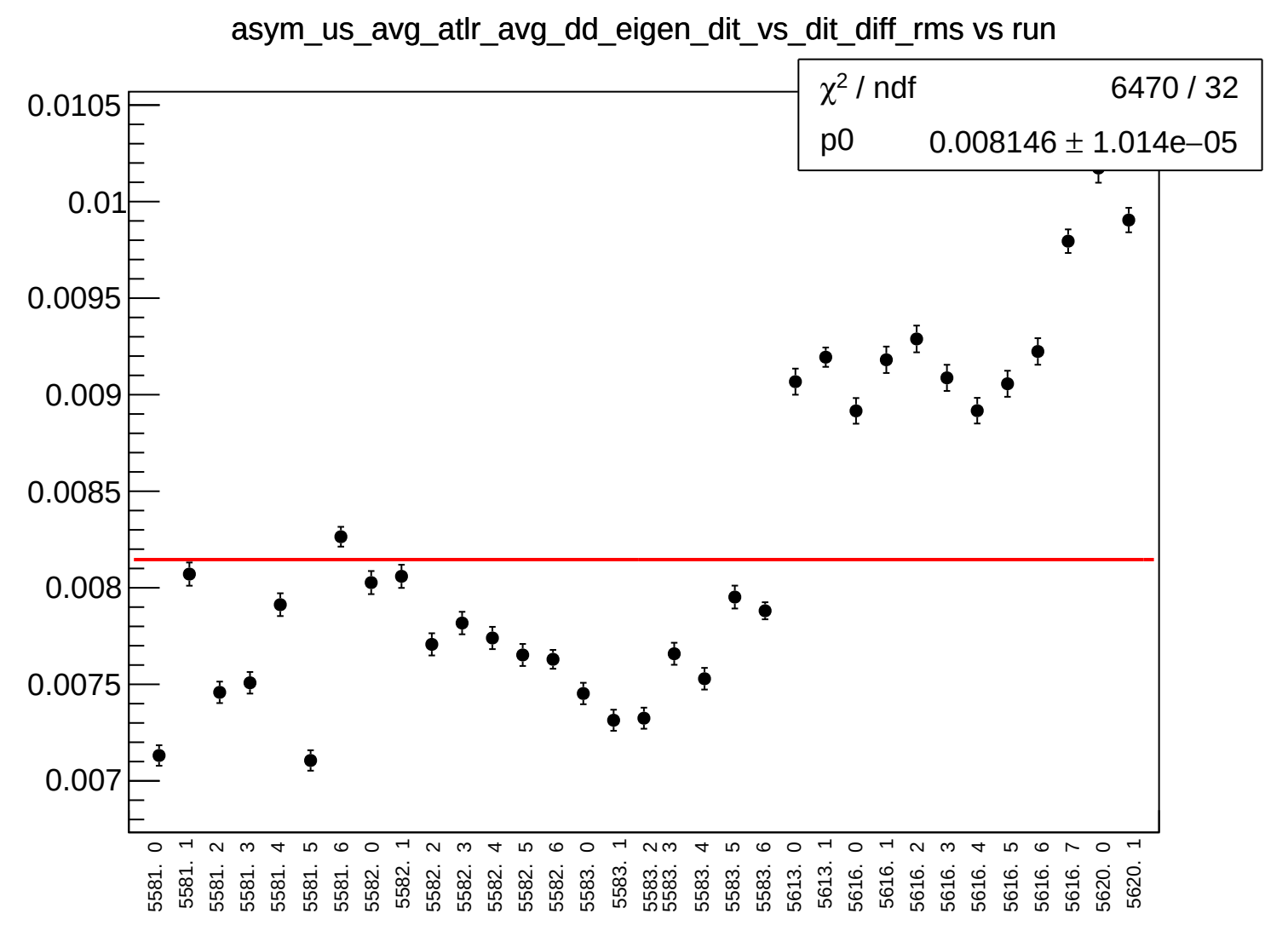

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 28.95 / 32
p0 −0.1683 ± 0.1173
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.98
Std Dev 10.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.142
Std Dev 0.9257
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

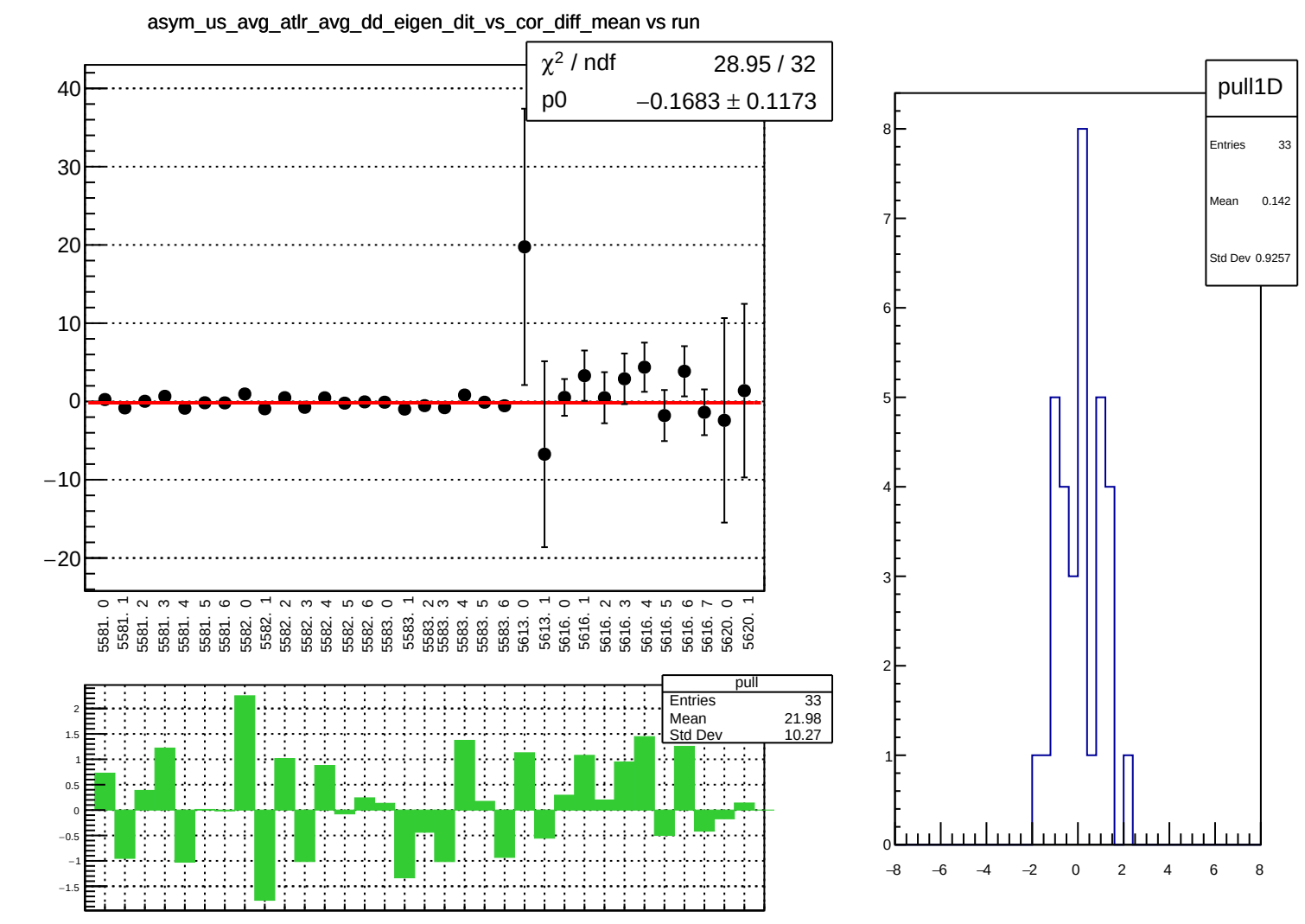

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.091e+05 / 32
p0 55.19 ± 0.08294
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

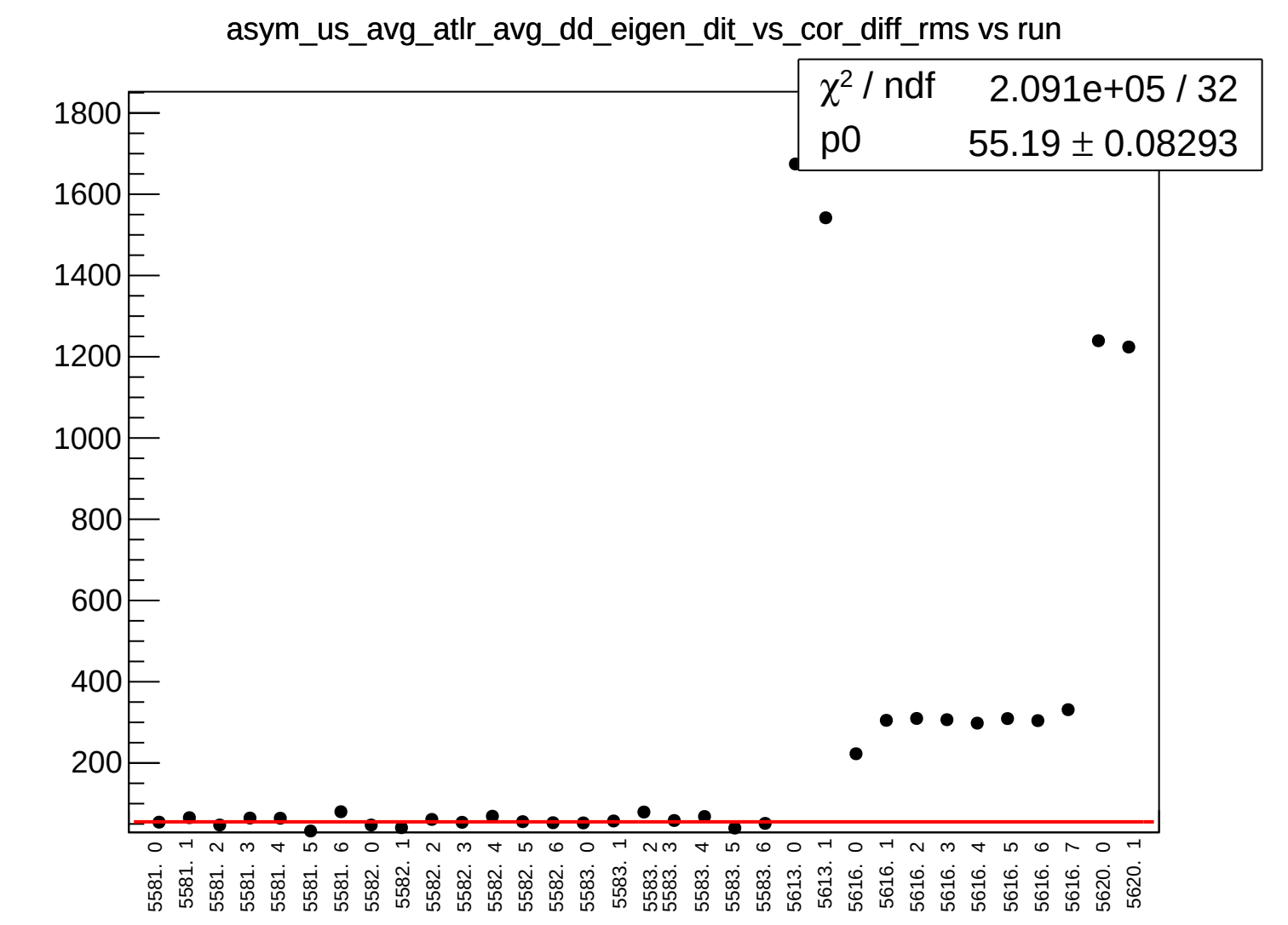

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.95 / 32
p0 −0.1683 ± 0.1173
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.98
Std Dev 10.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.142
Std Dev 0.9257
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

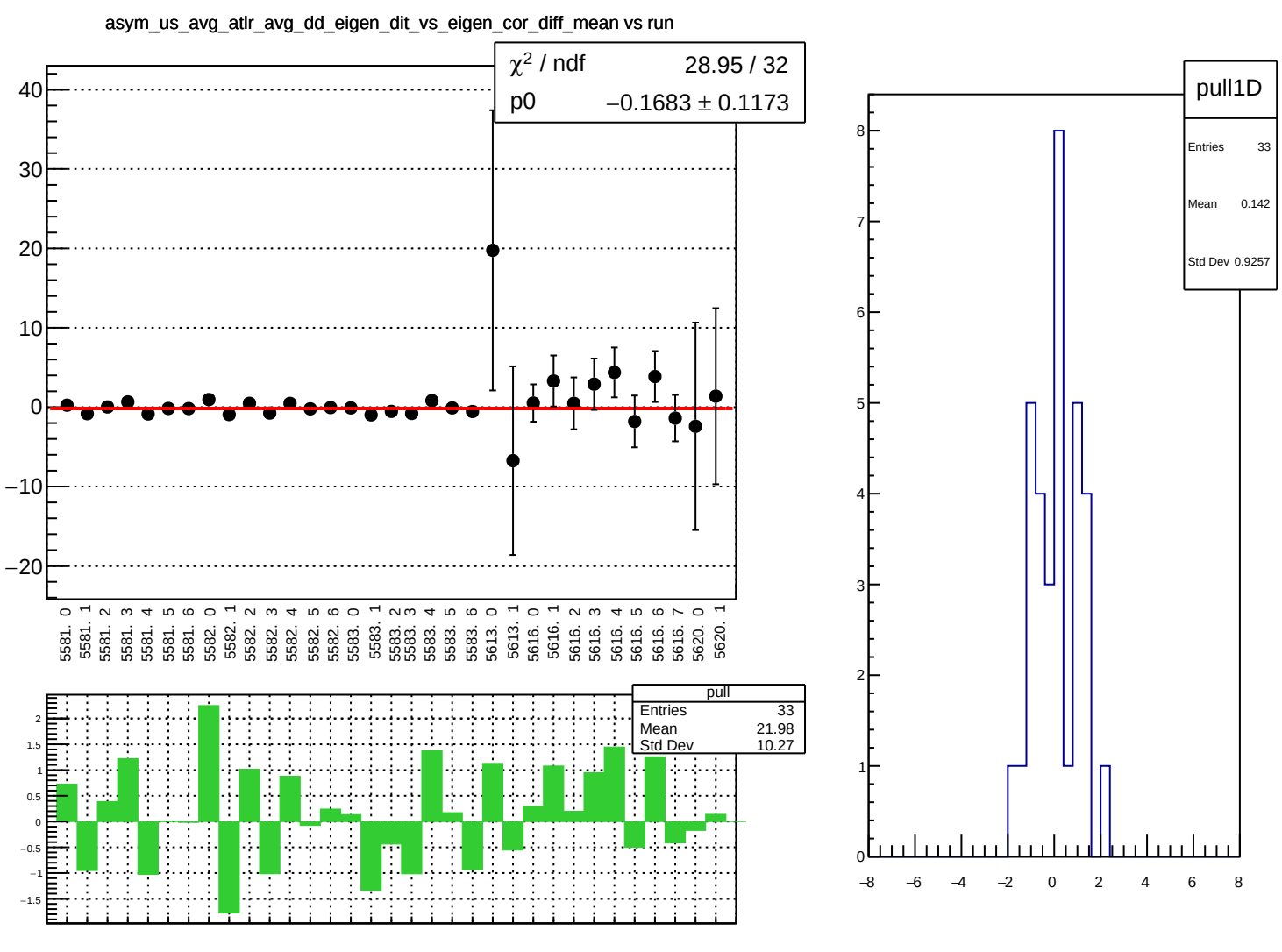

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.091e+05 / 32
p0 55.19 ± 0.08294
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

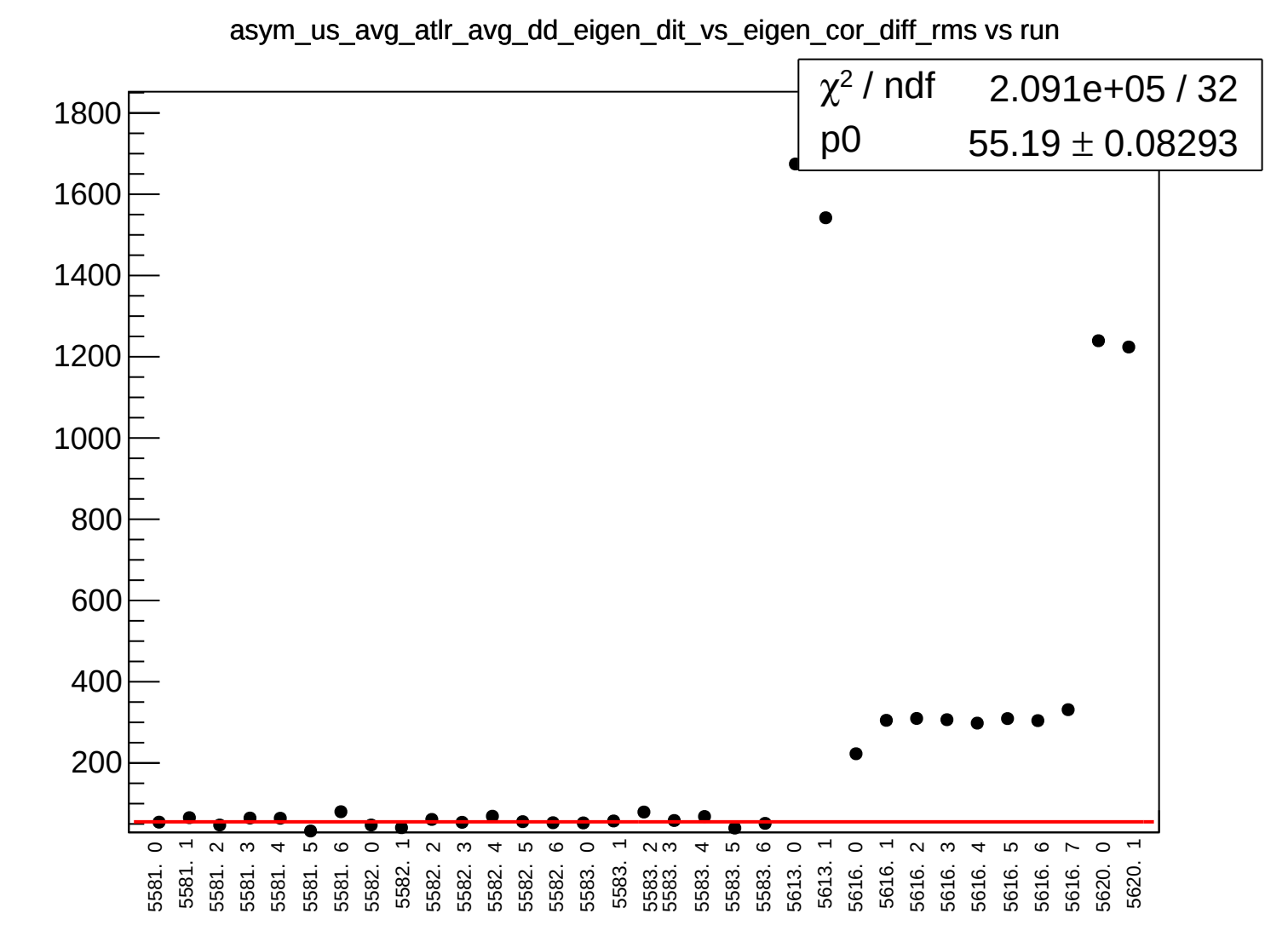

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.72 / 32
p0 5.472e−06 ± 1.434e−05
0.3
0.2
0.1
0
−0.1
−0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 75.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.01599
Std Dev 0.9647
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

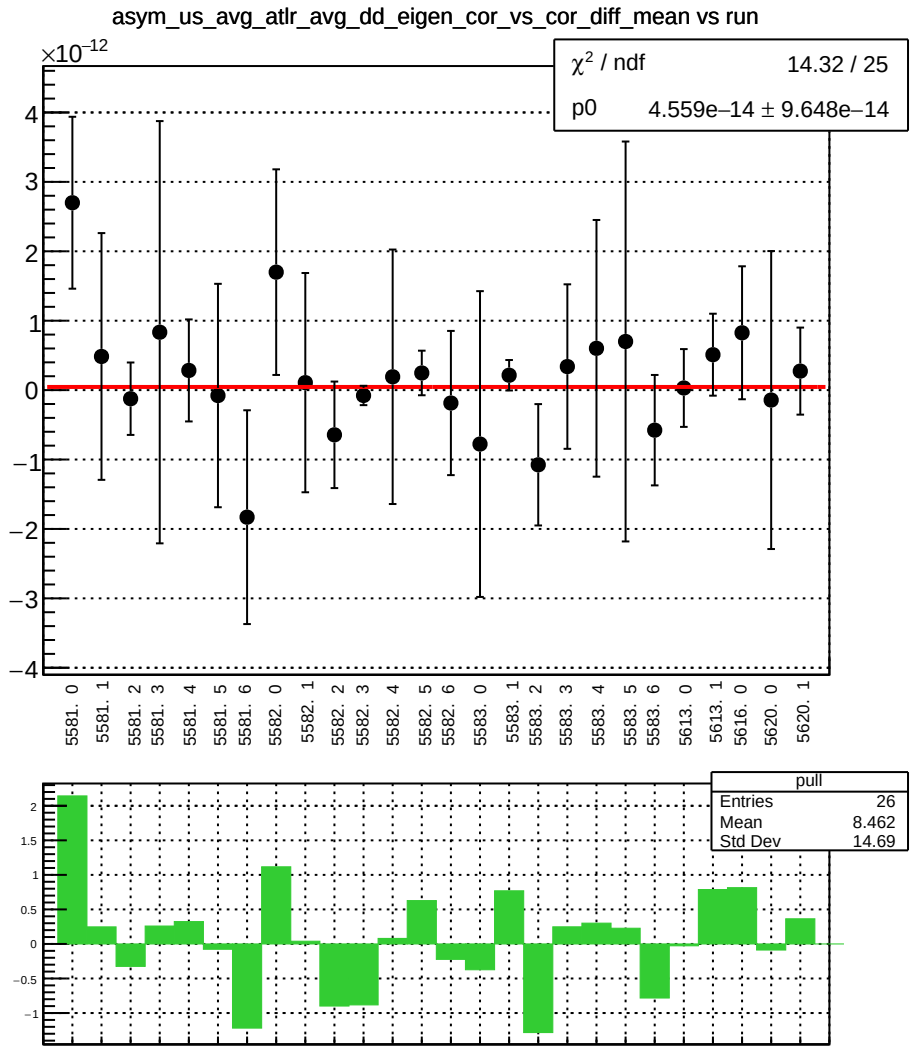

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6470 / 32
p0 0.008146 ± 1.014e−05
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

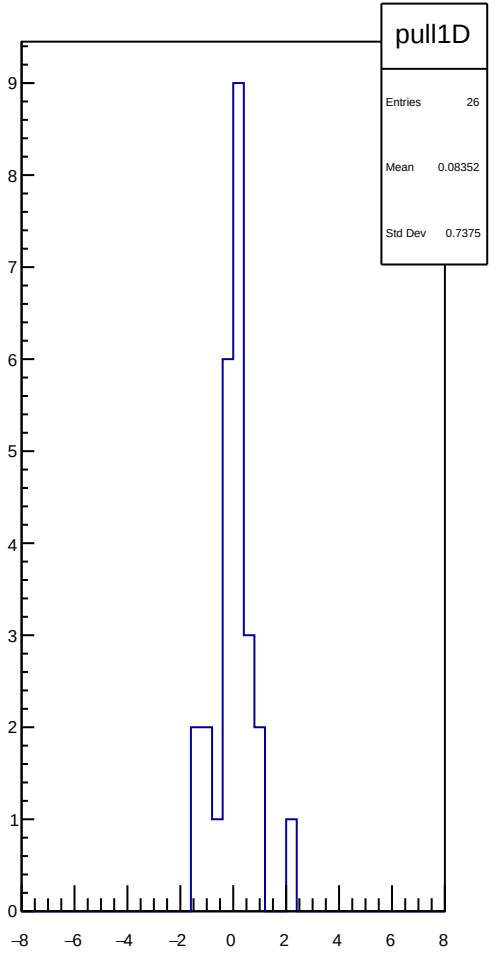

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 28.95 / 32
p0 −0.1683 ± 0.1173
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.98
Std Dev 10.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.142
Std Dev 0.9257
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

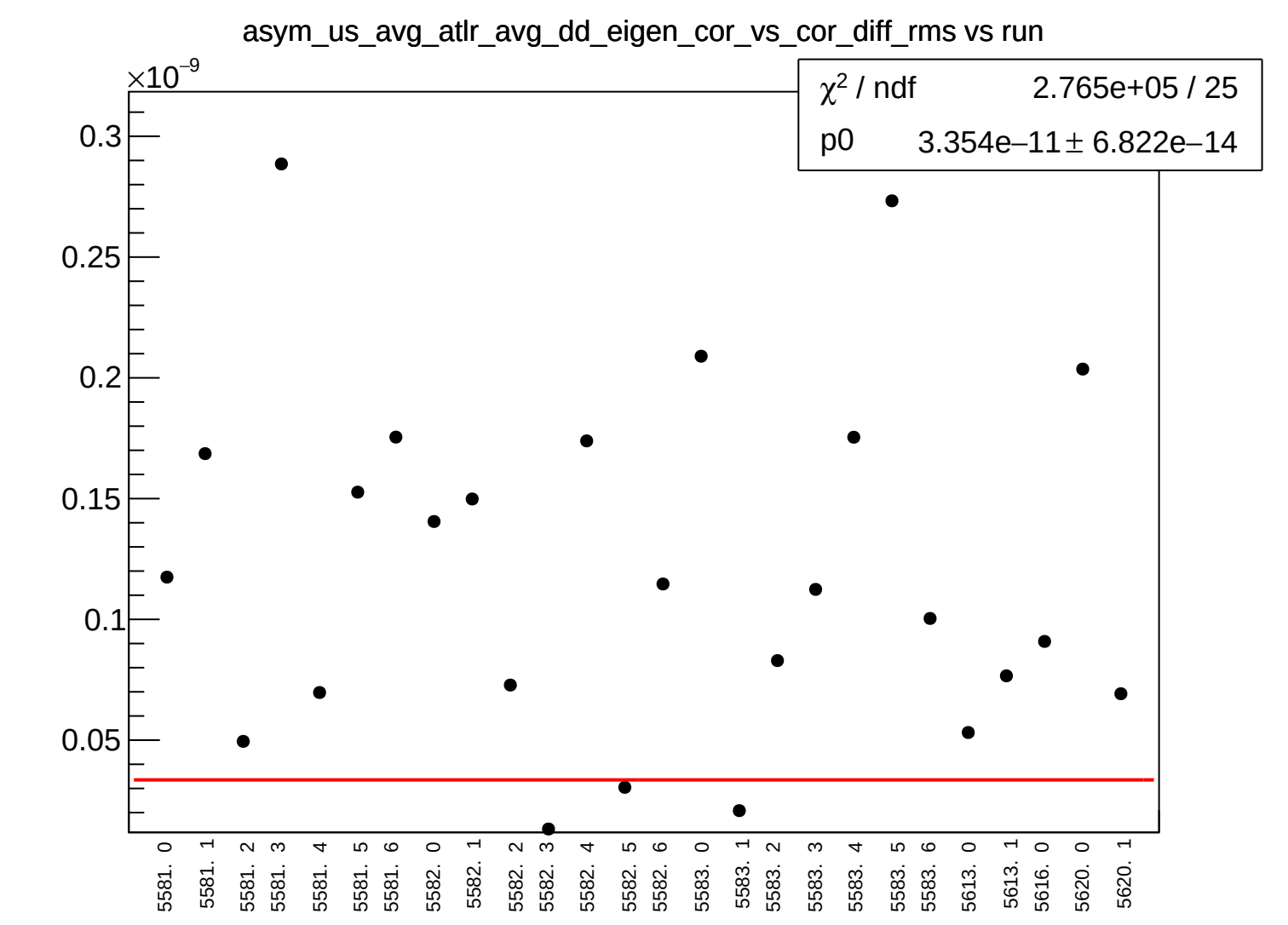

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.091e+05 / 32
p0 55.19 ± 0.08293
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

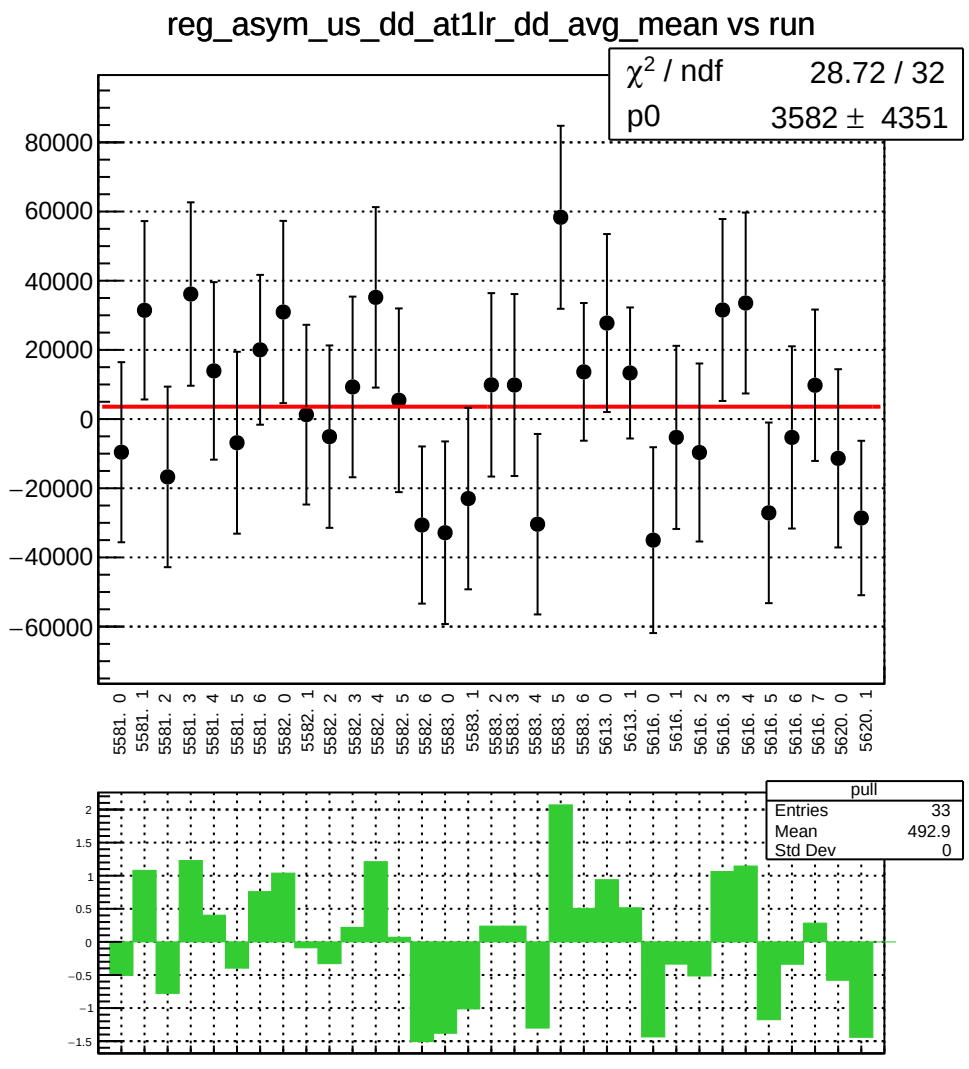

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.95 / 32
p0 −0.1683 ± 0.1173
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.98
Std Dev 10.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.142
Std Dev 0.9257
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

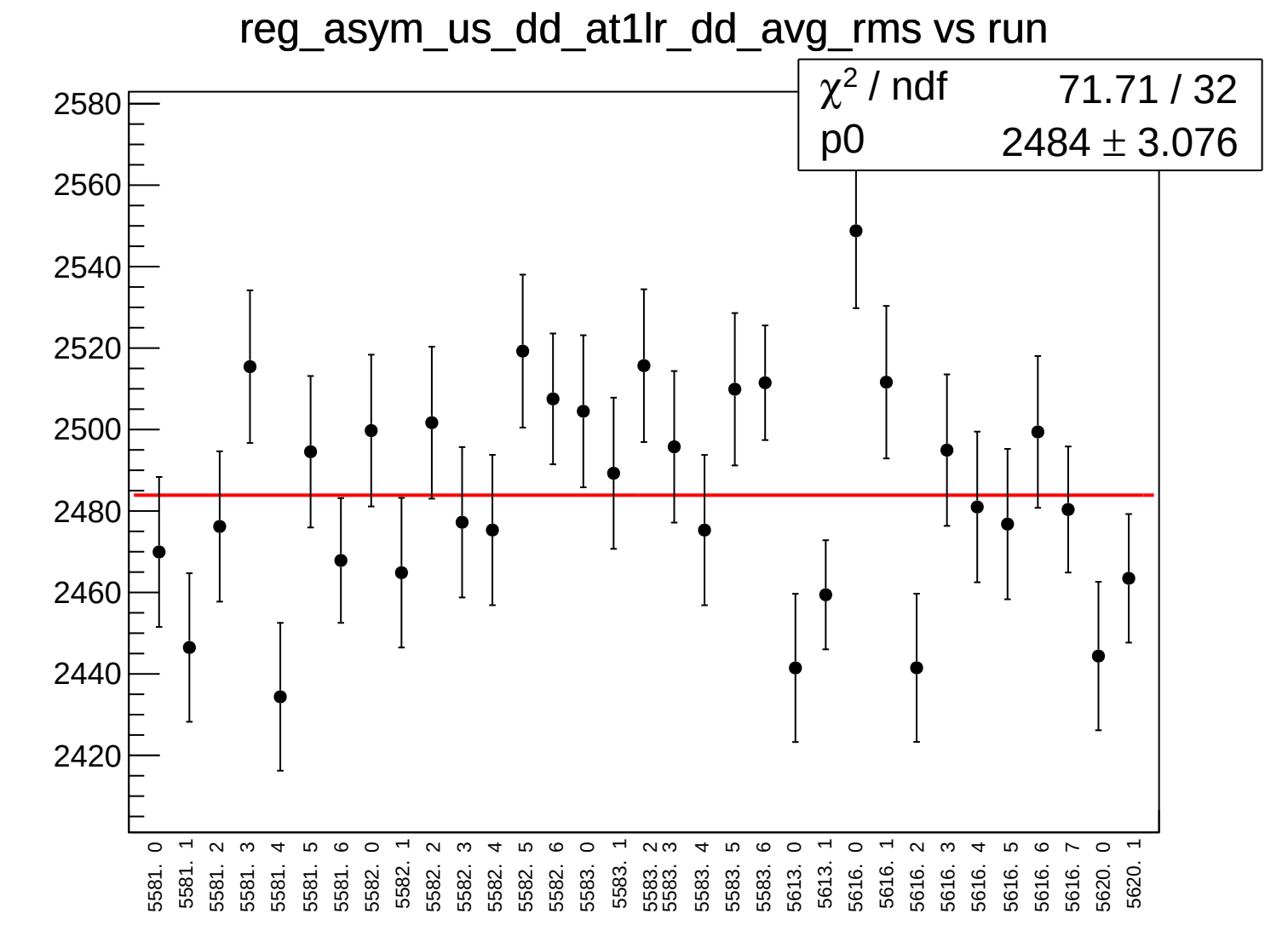

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.091e+05 / 32
p0 55.19 ± 0.08293
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

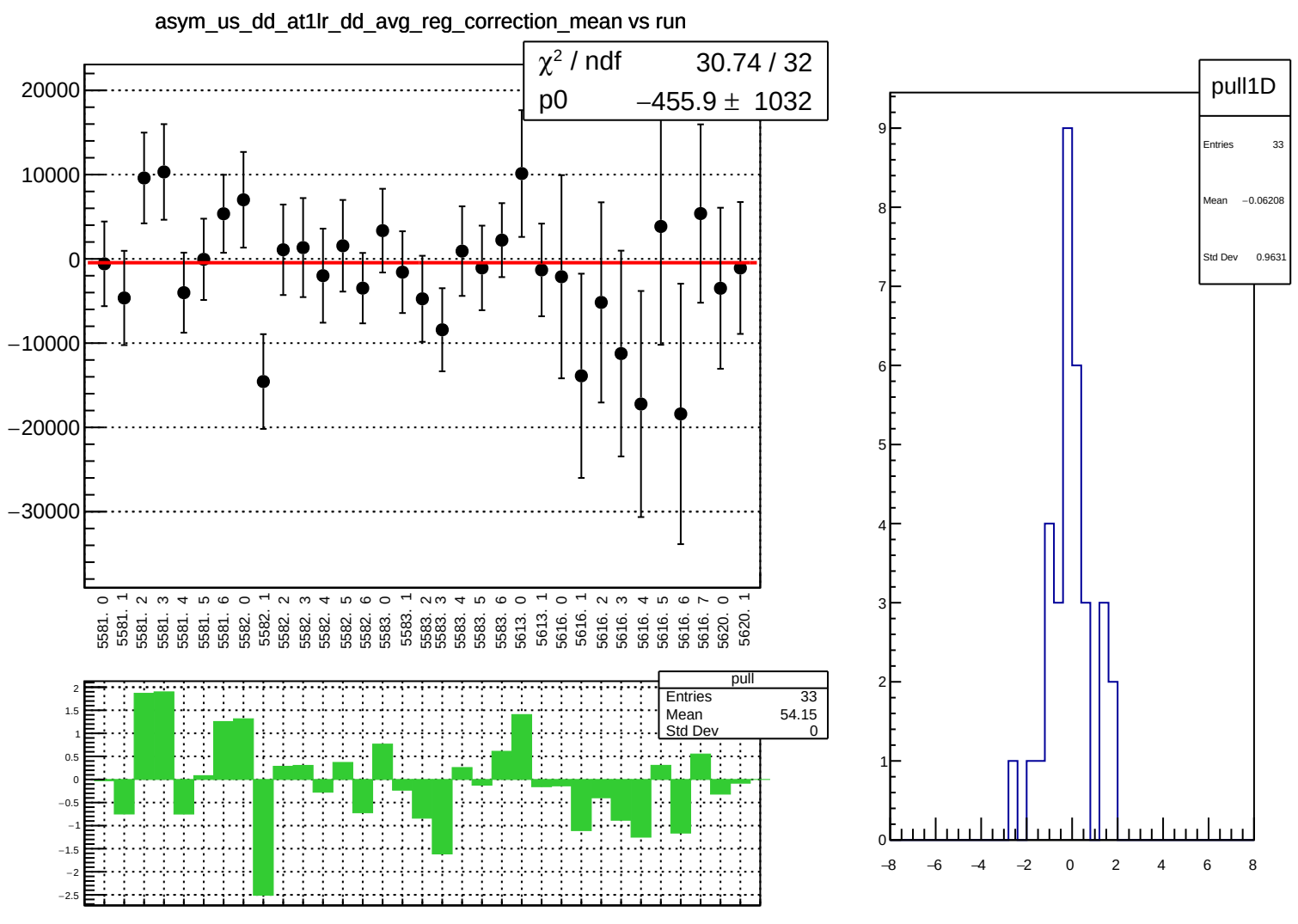

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 14.32 / 25
p0 4.559e−14 ± 9.648e−14
4
3
2
1
0
−1
−2
−3
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 8.462
Std Dev 14.69
2
1.5
1
0.5
0
−0.5
−1

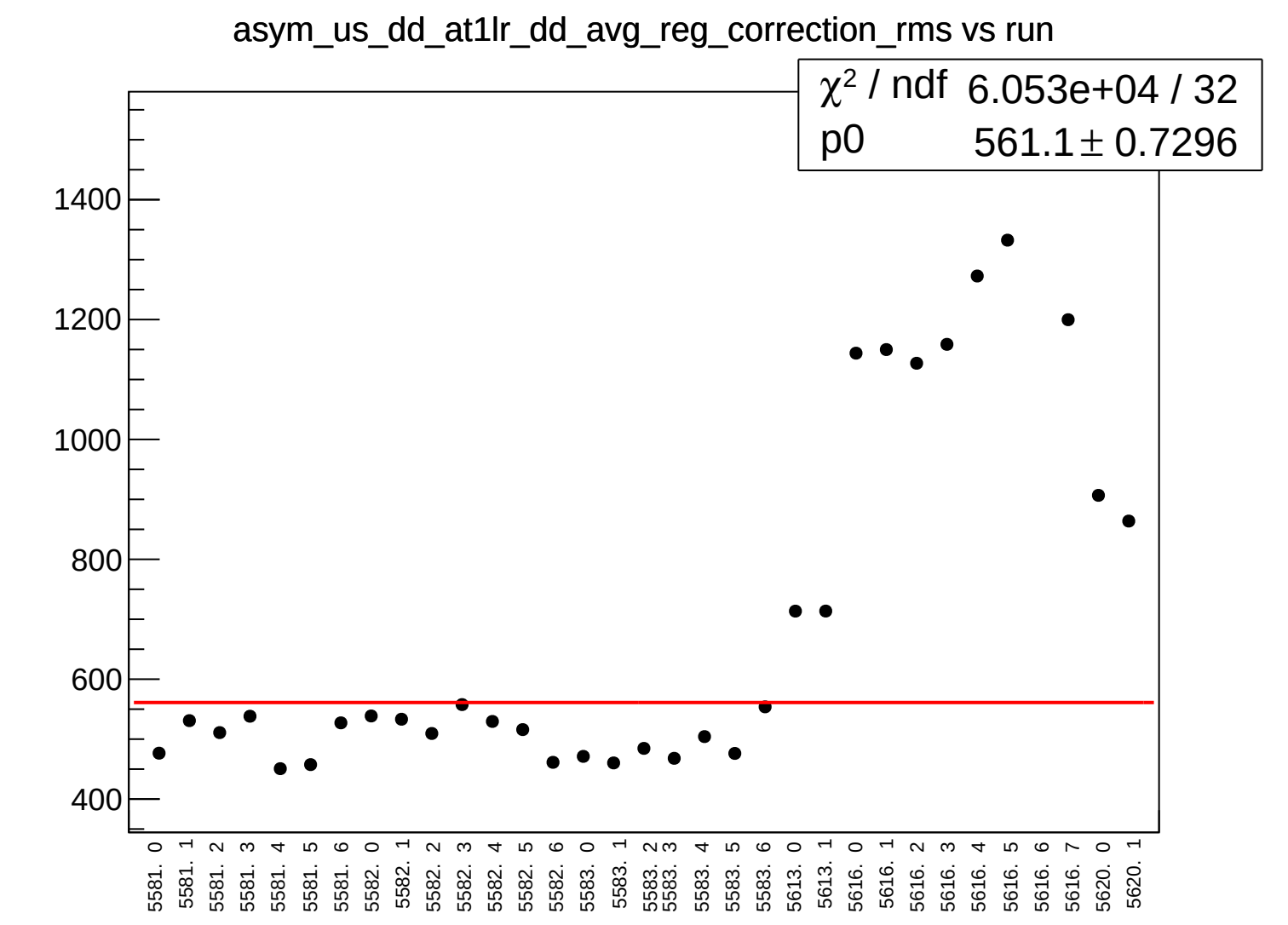

pull1D
Entries 26
Mean 0.08352
Std Dev 0.7375
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

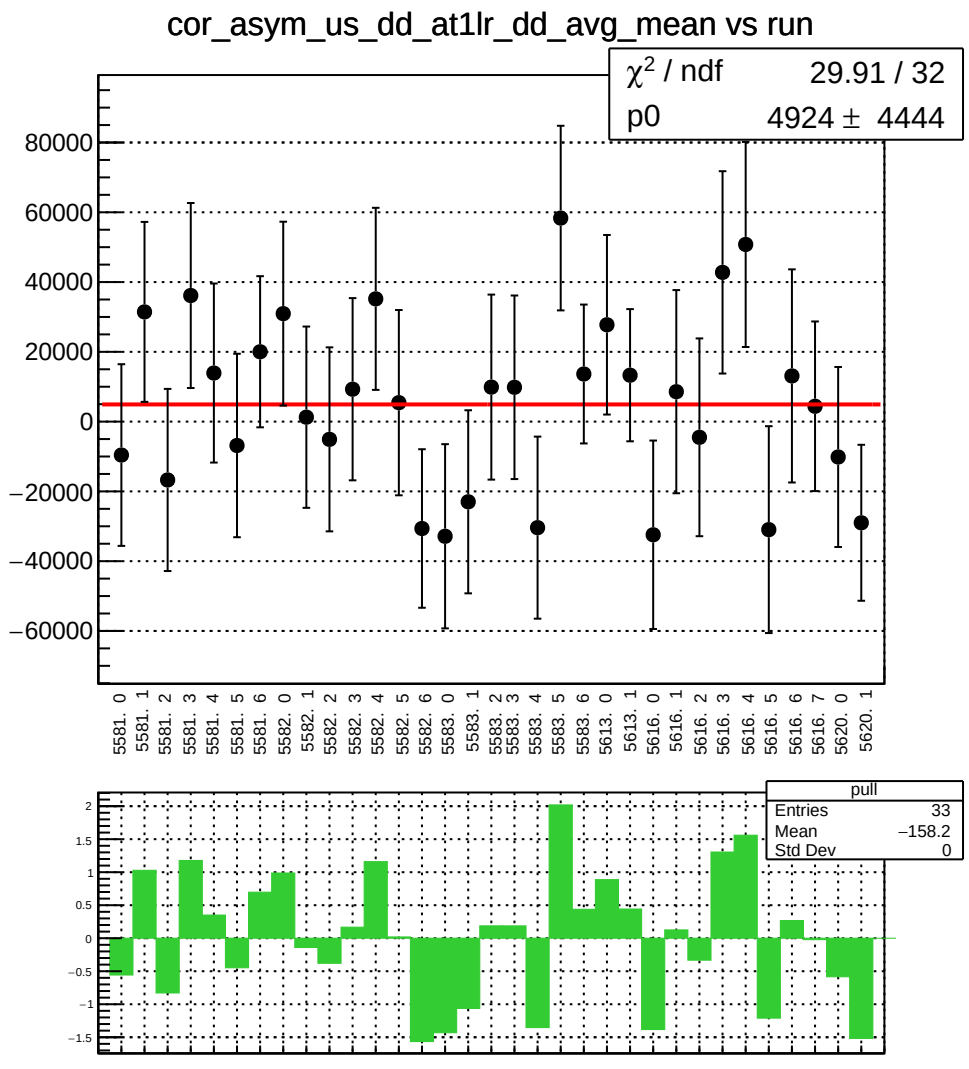

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.765e+05 / 25
p0 3.354e−11 ± 6.822e−14
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

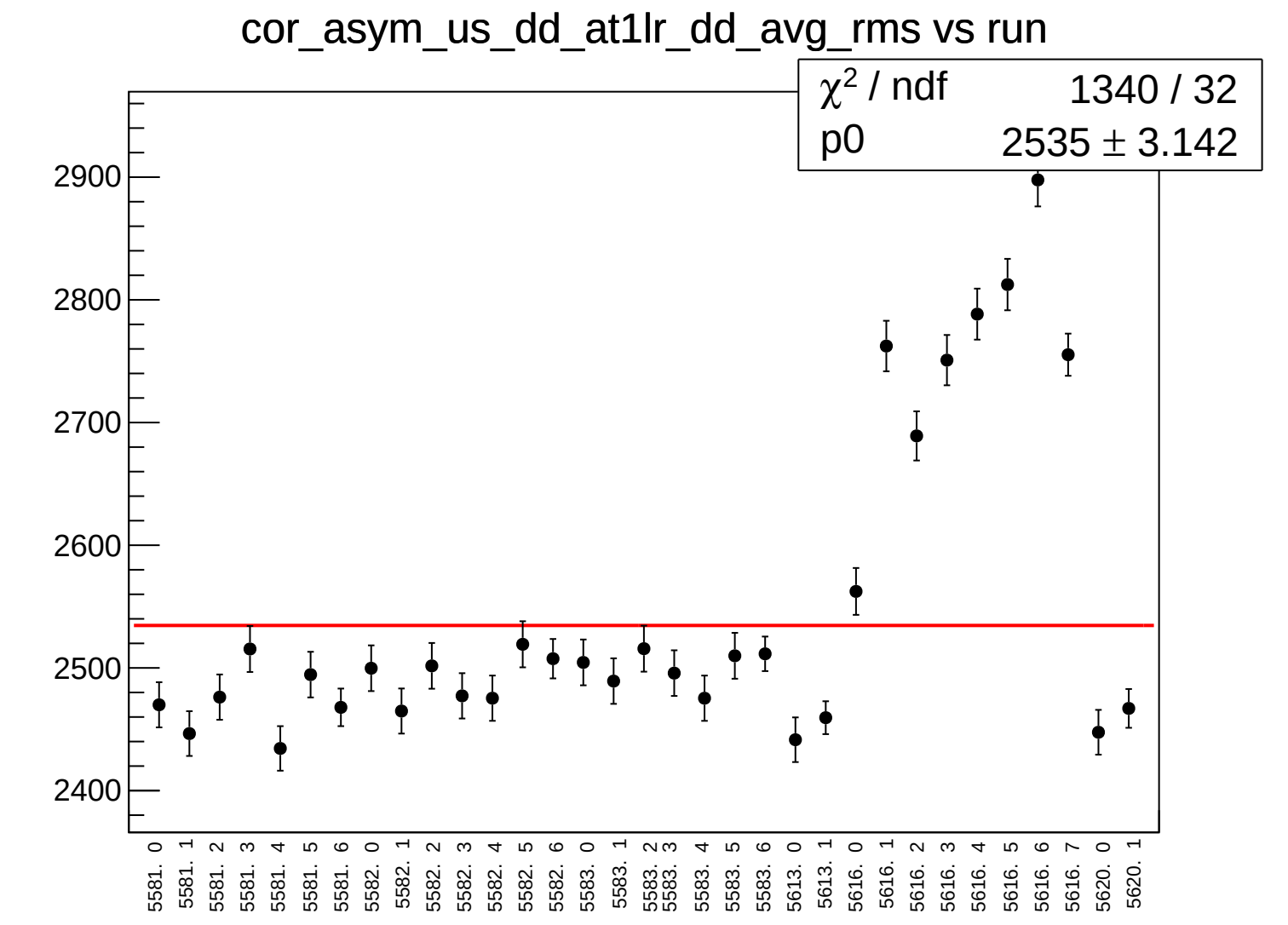

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 28.72 / 32
p0 3582 ± 4351
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 492.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.003419
Std Dev 0.9329
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

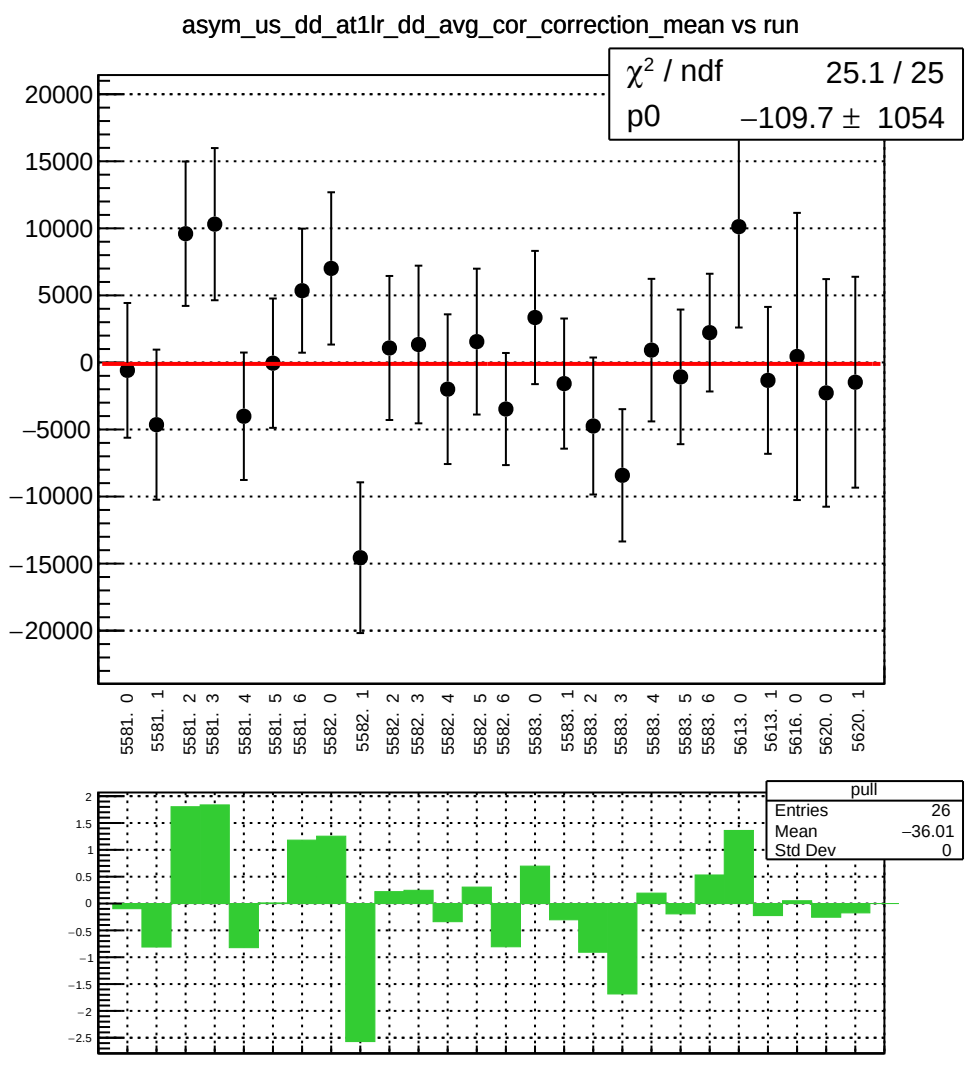

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 71.71 / 32
p0 2484 ± 3.076
2580
2560
2540
2520
2500
2480
2460
2440
2420
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

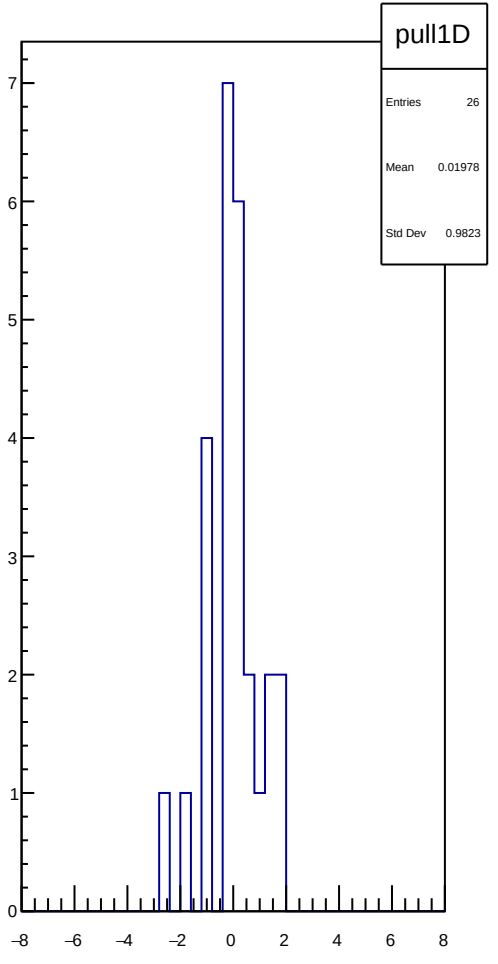

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 30.74 / 32
p0 −455.9 ± 1032
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 54.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.06208
Std Dev 0.9631
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

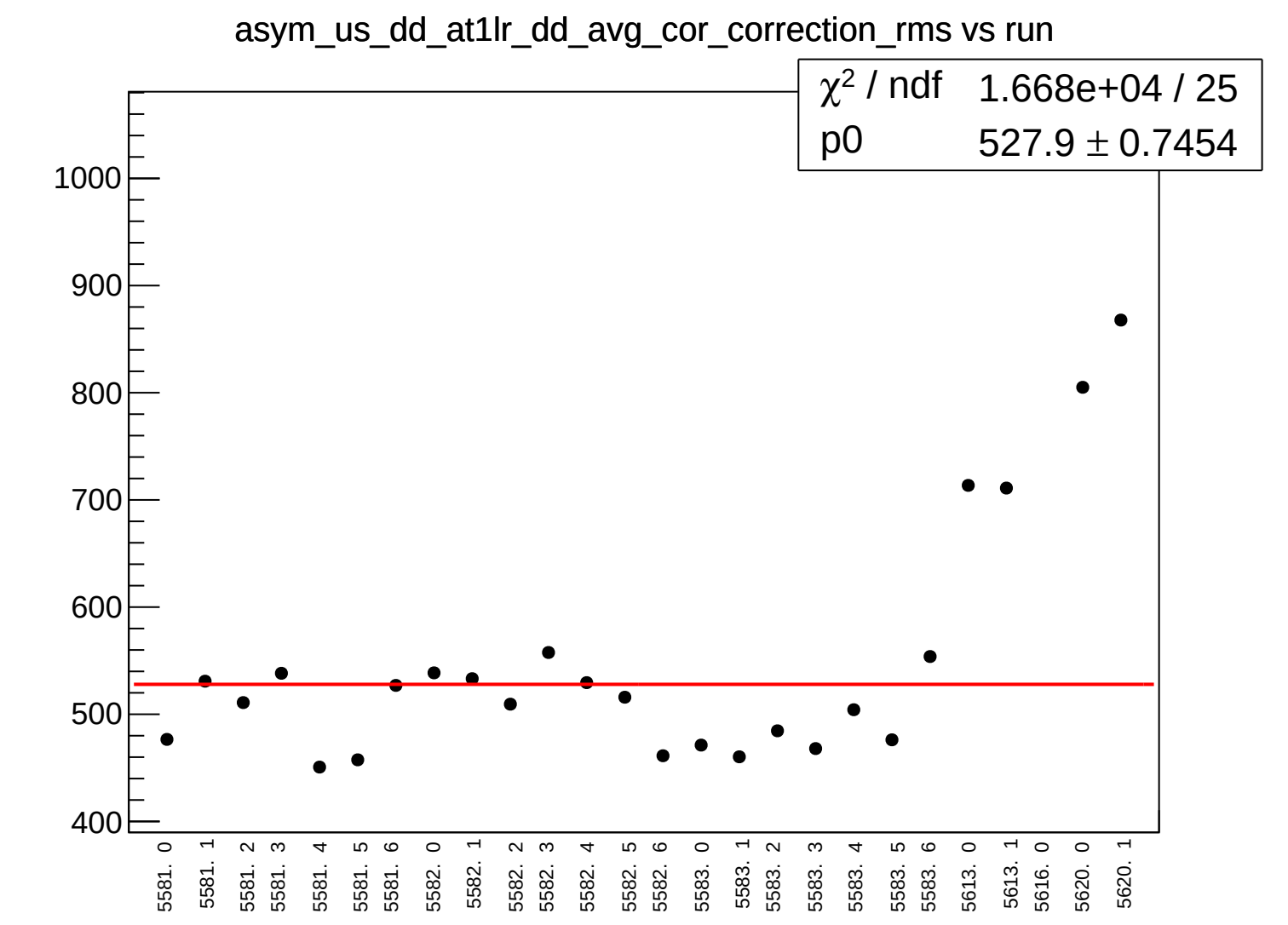

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 6.053e+04 / 32
p0 561.1 ± 0.7296
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

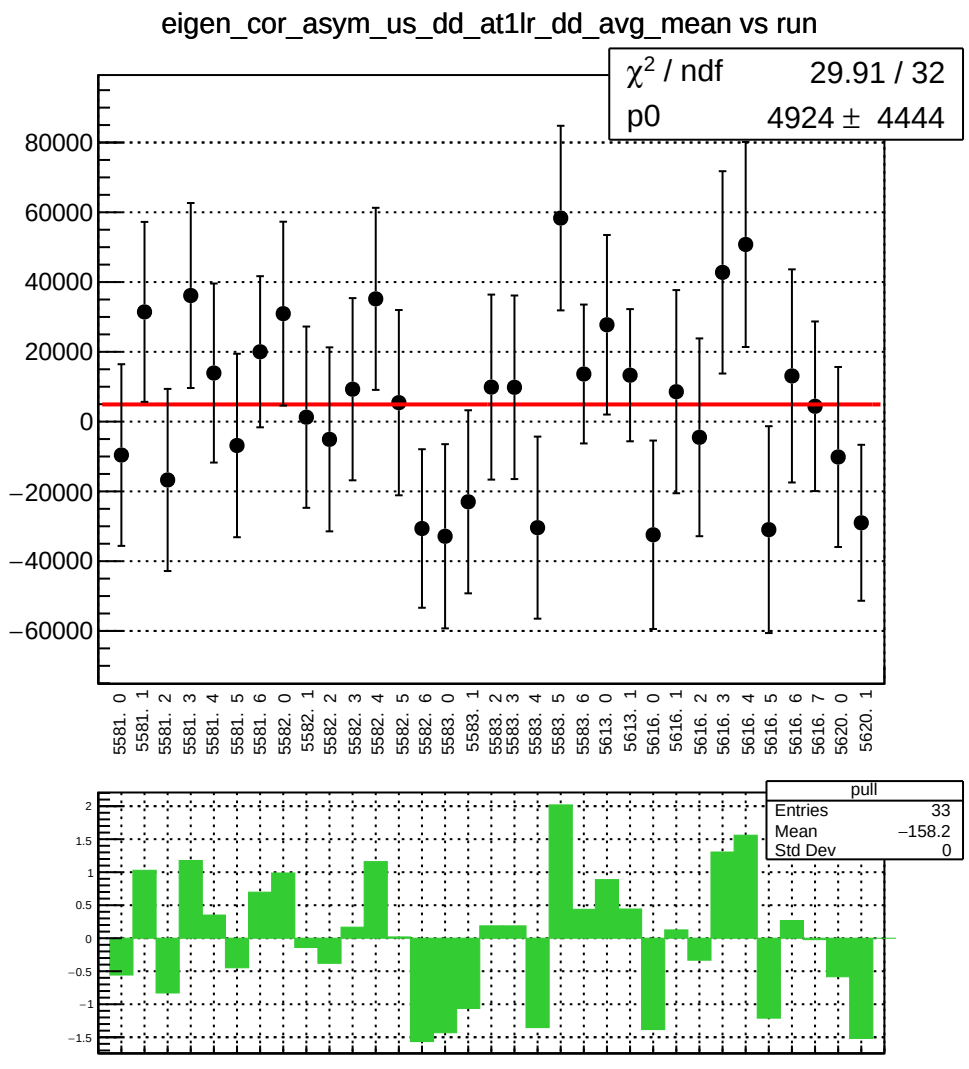

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 29.91 / 32
p0 4924 ± 4444
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −158.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.005774
Std Dev 0.952
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

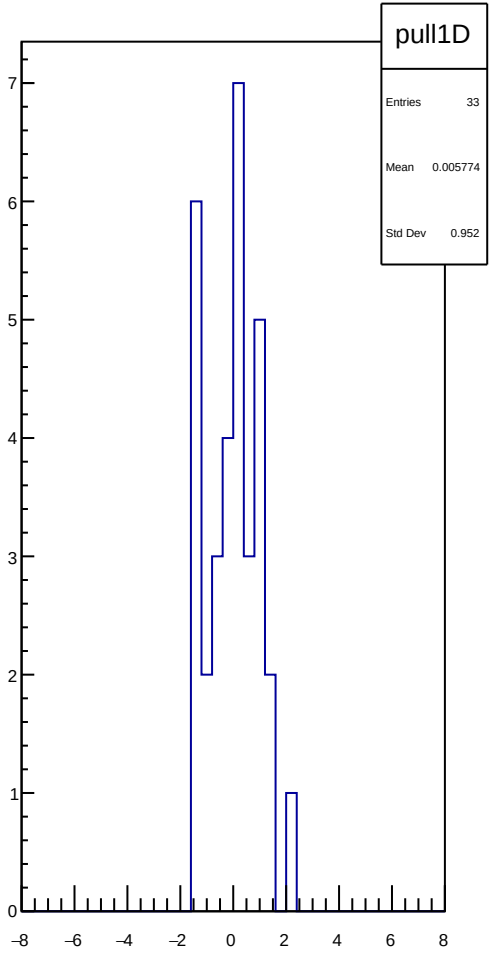

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1340 / 32
p0 2535 ± 3.142
2900
2800
2700
2600
2500
2400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

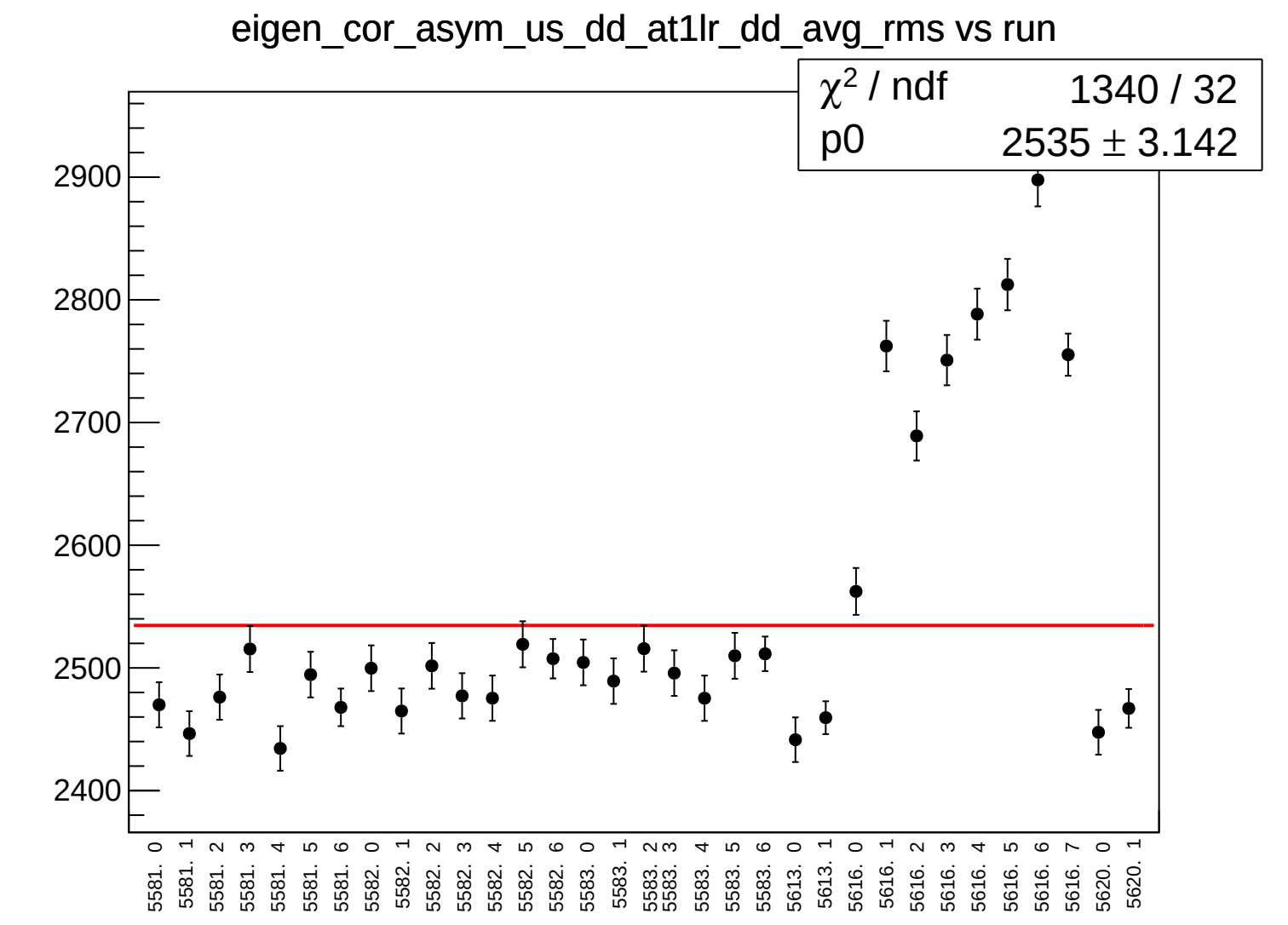

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 25.1 / 25
p0 −109.7 ± 1054
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −36.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

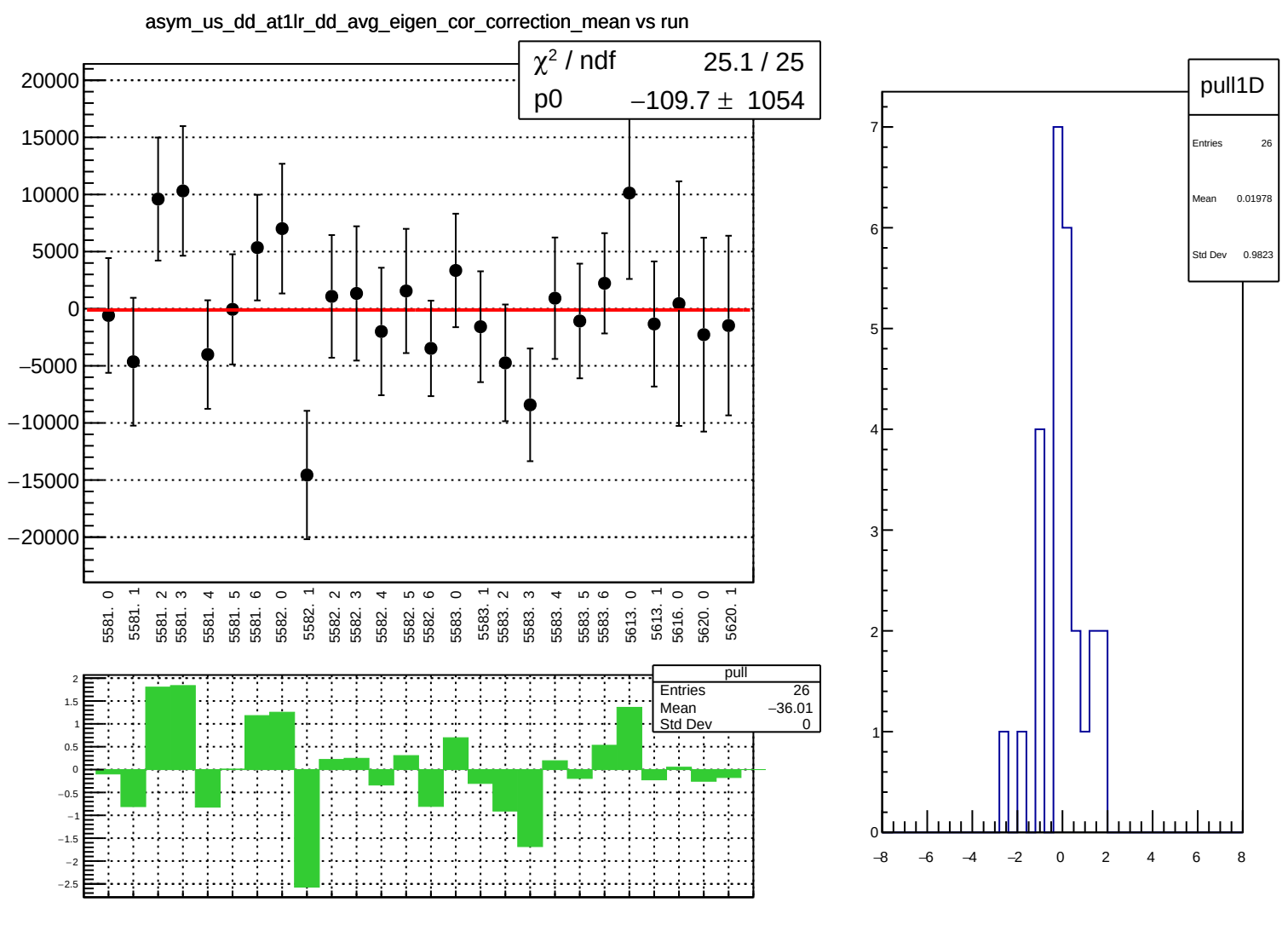

pull1D
Entries 26
Mean 0.01978
Std Dev 0.9823
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

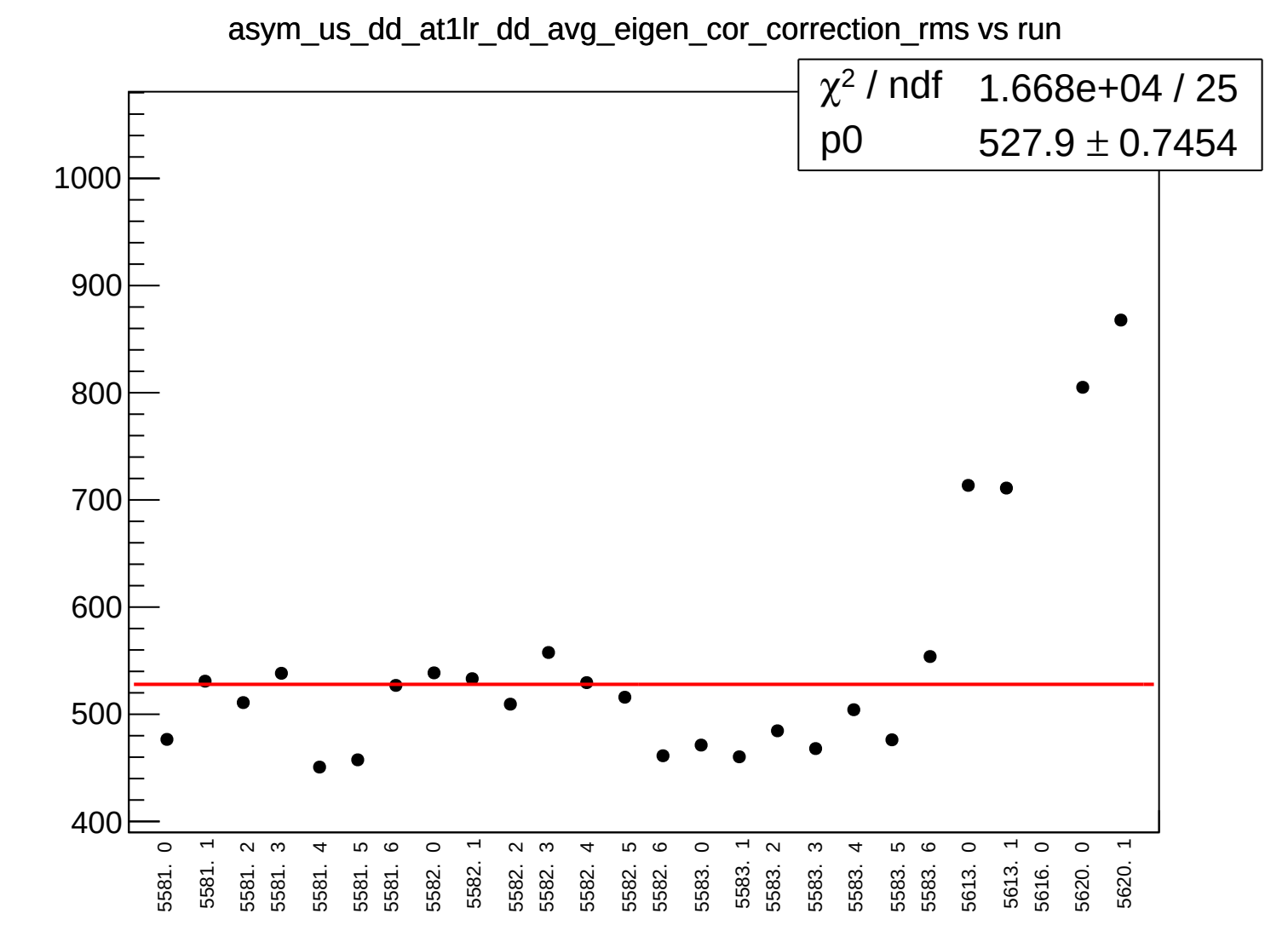

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.668e+04 / 25
p0 527.9 ± 0.7454
1000
900
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

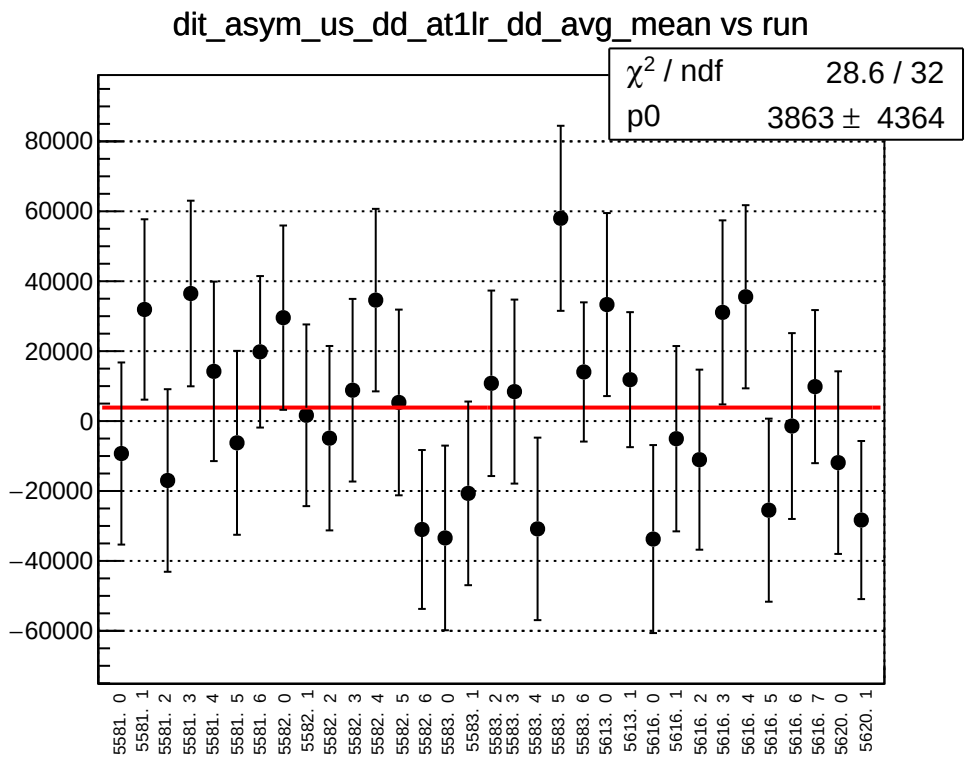

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 29.91 / 32
p0 4924 ± 4444
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −158.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

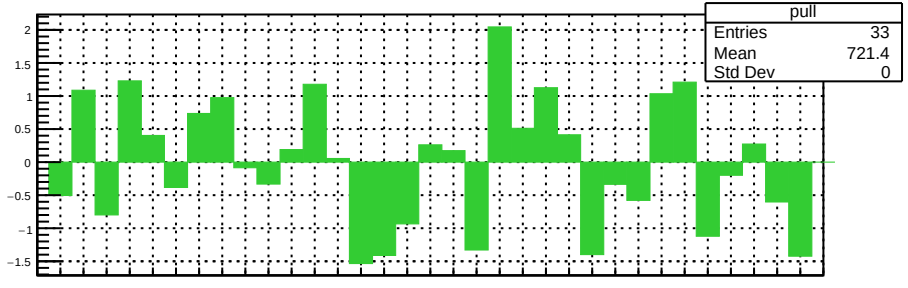

pull1D
Entries 33
Mean 0.005774
Std Dev 0.952
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

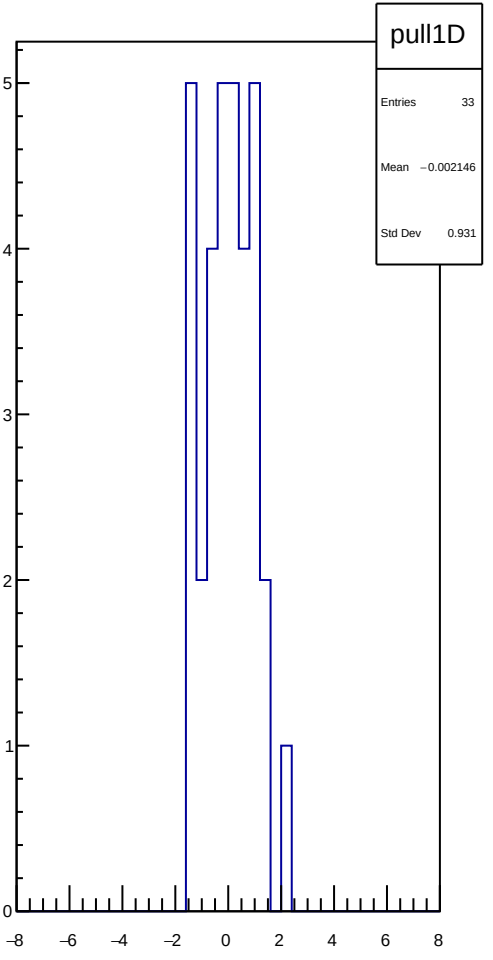

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1340 / 32
p0 2535 ± 3.142
2900
2800
2700
2600
2500
2400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

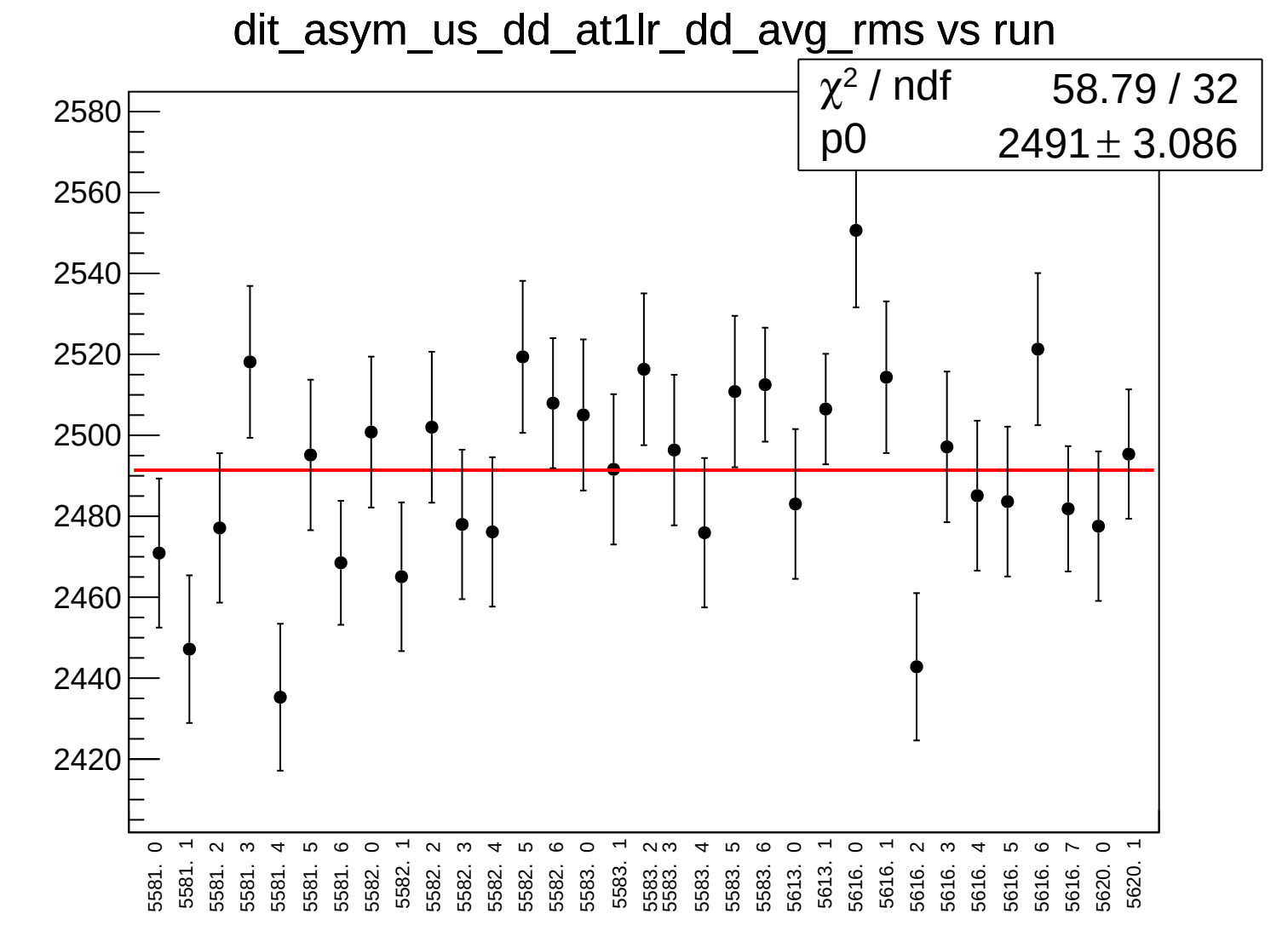

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 25.1 / 25
p0 −109.7 ± 1054
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −36.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 26
Mean 0.01978
Std Dev 0.9823
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

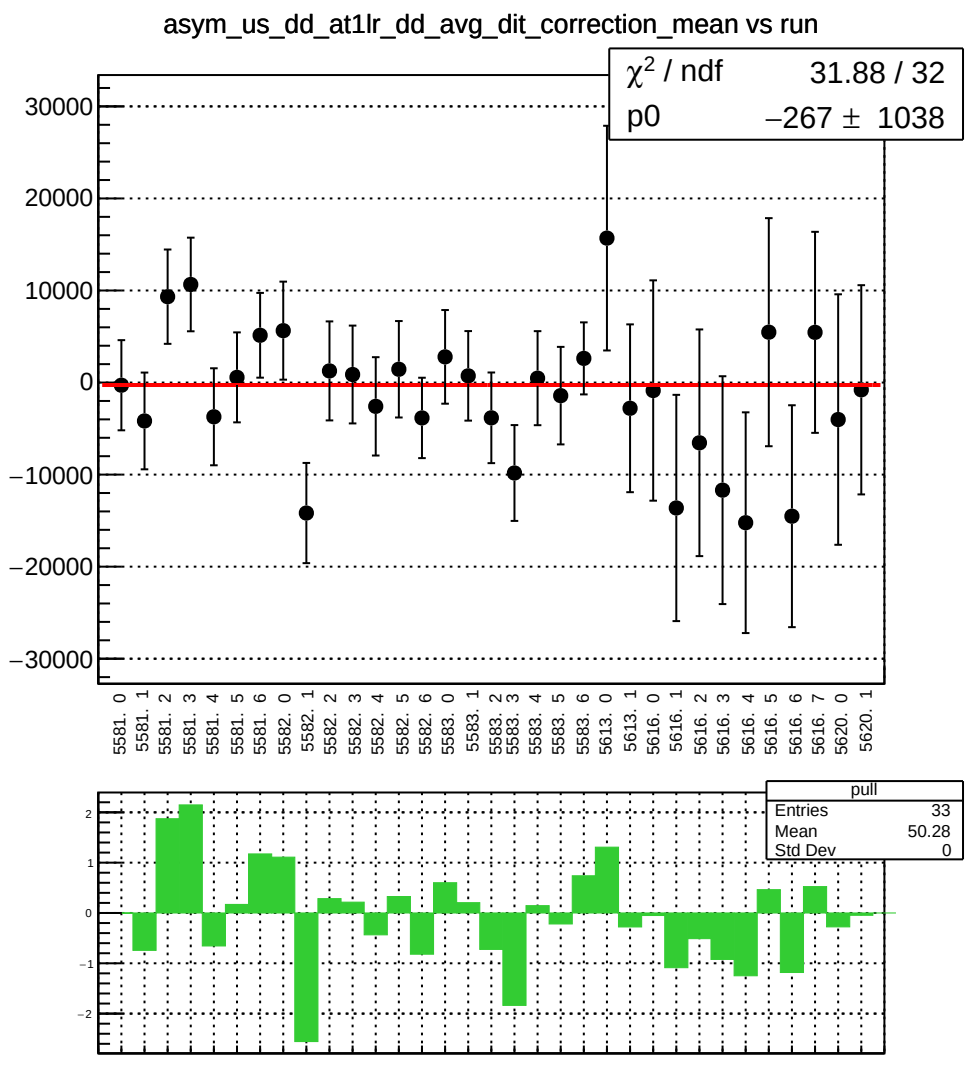

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.668e+04 / 25
p0 527.9 ± 0.7454
1000
900
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

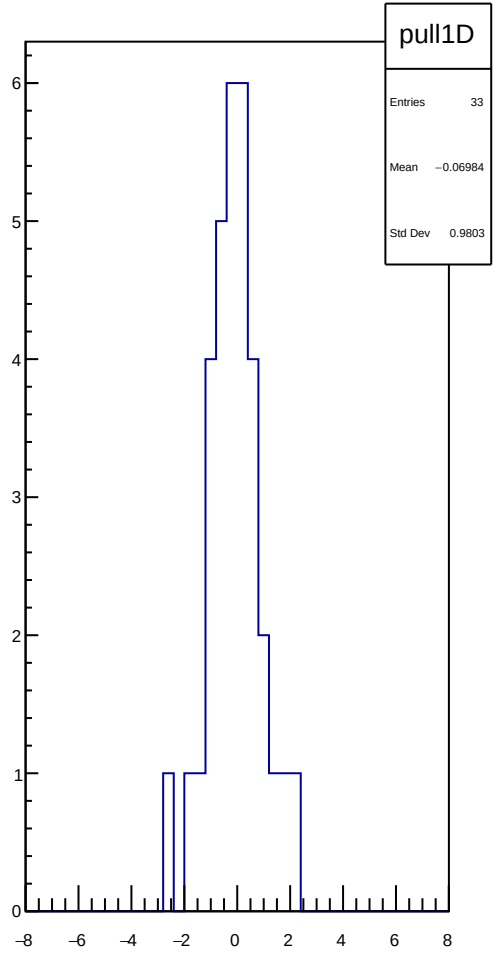

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 28.6 / 32
p0 3863 ± 4364
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

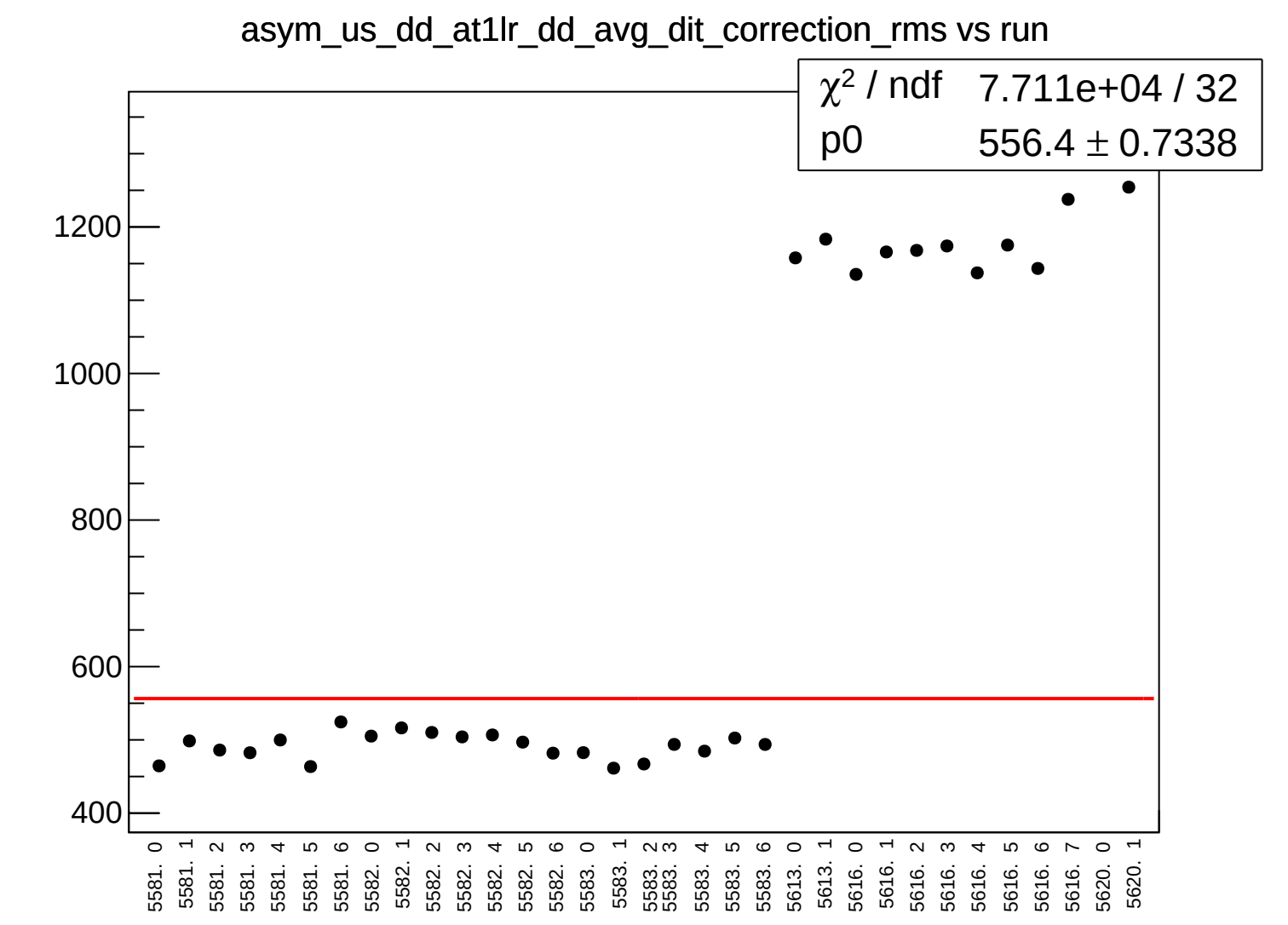

pull
Entries 33
Mean 721.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

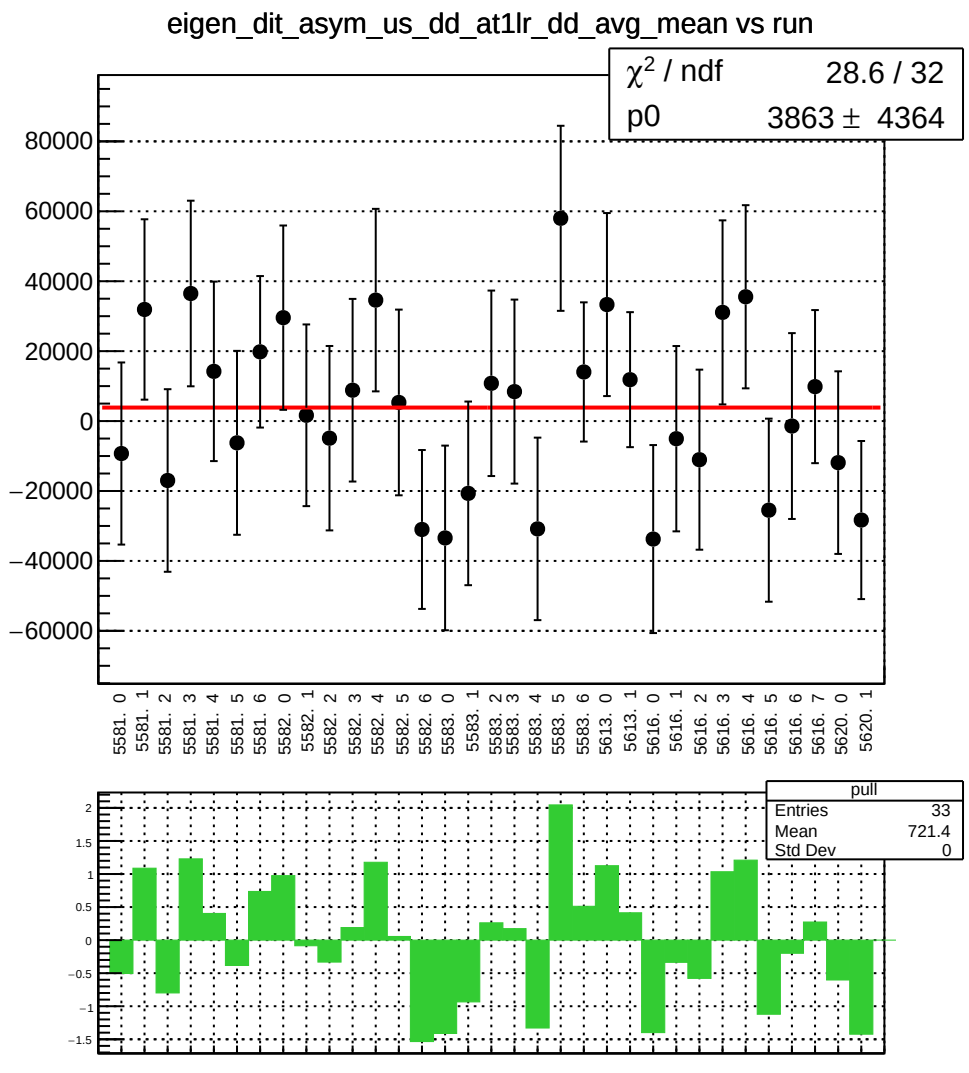

pull1D
Entries 33
Mean −0.002146
Std Dev 0.931
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

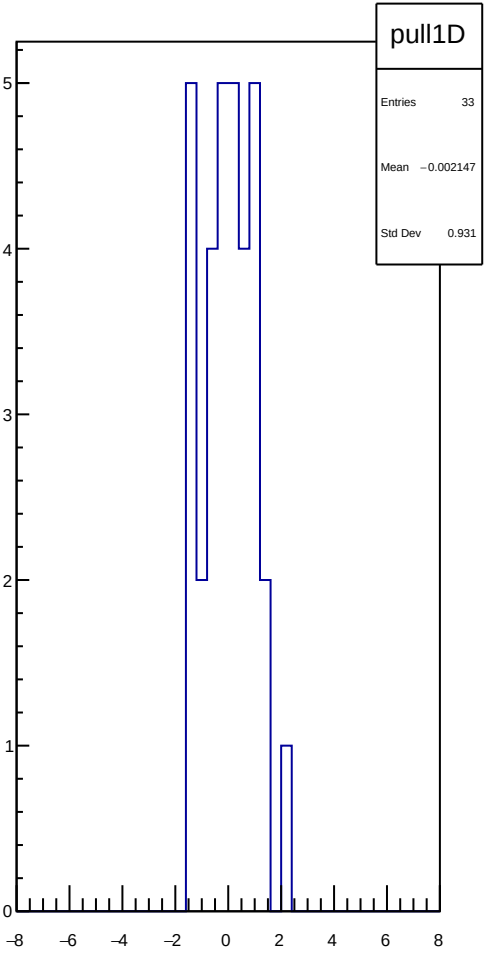

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 58.79 / 32
p0 2491 ± 3.086
2580
2560
2540
2520
2500
2480
2460
2440
2420
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

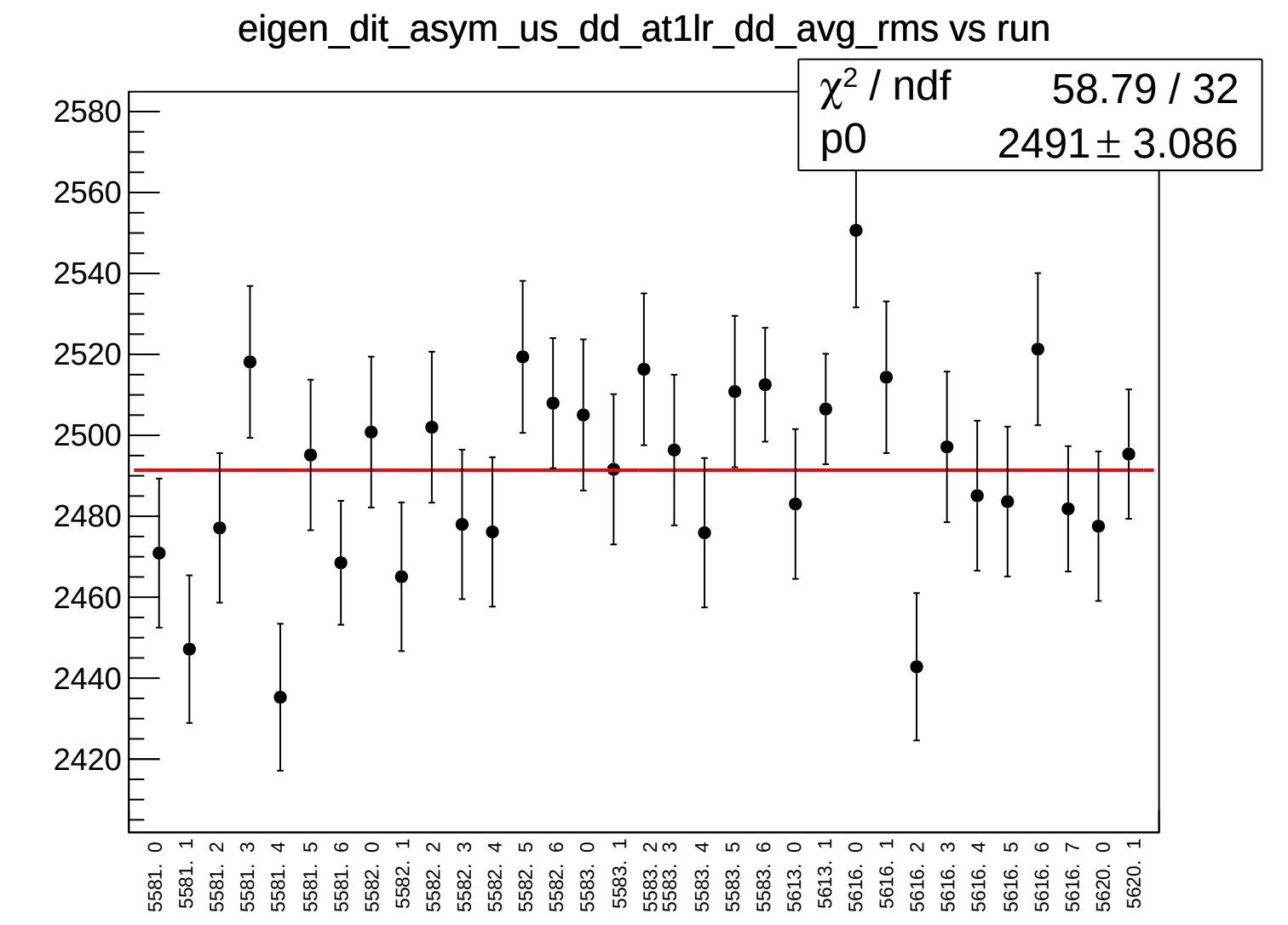

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 31.88 / 32
p0 −267 ± 1038
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 50.28
Std Dev 0
2
1
0
−1
−2

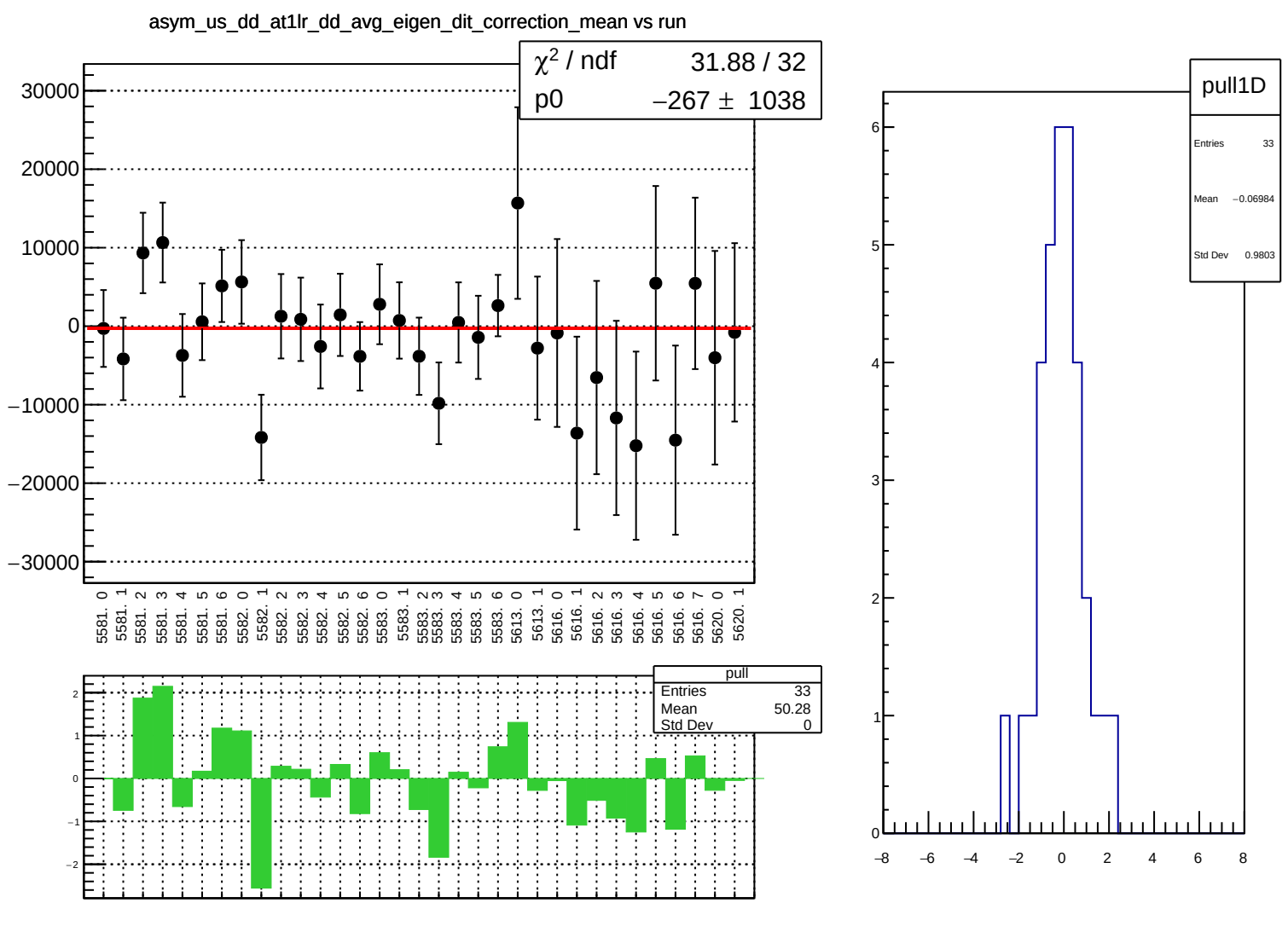

pull1D
Entries 33
Mean −0.06984
Std Dev 0.9803
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

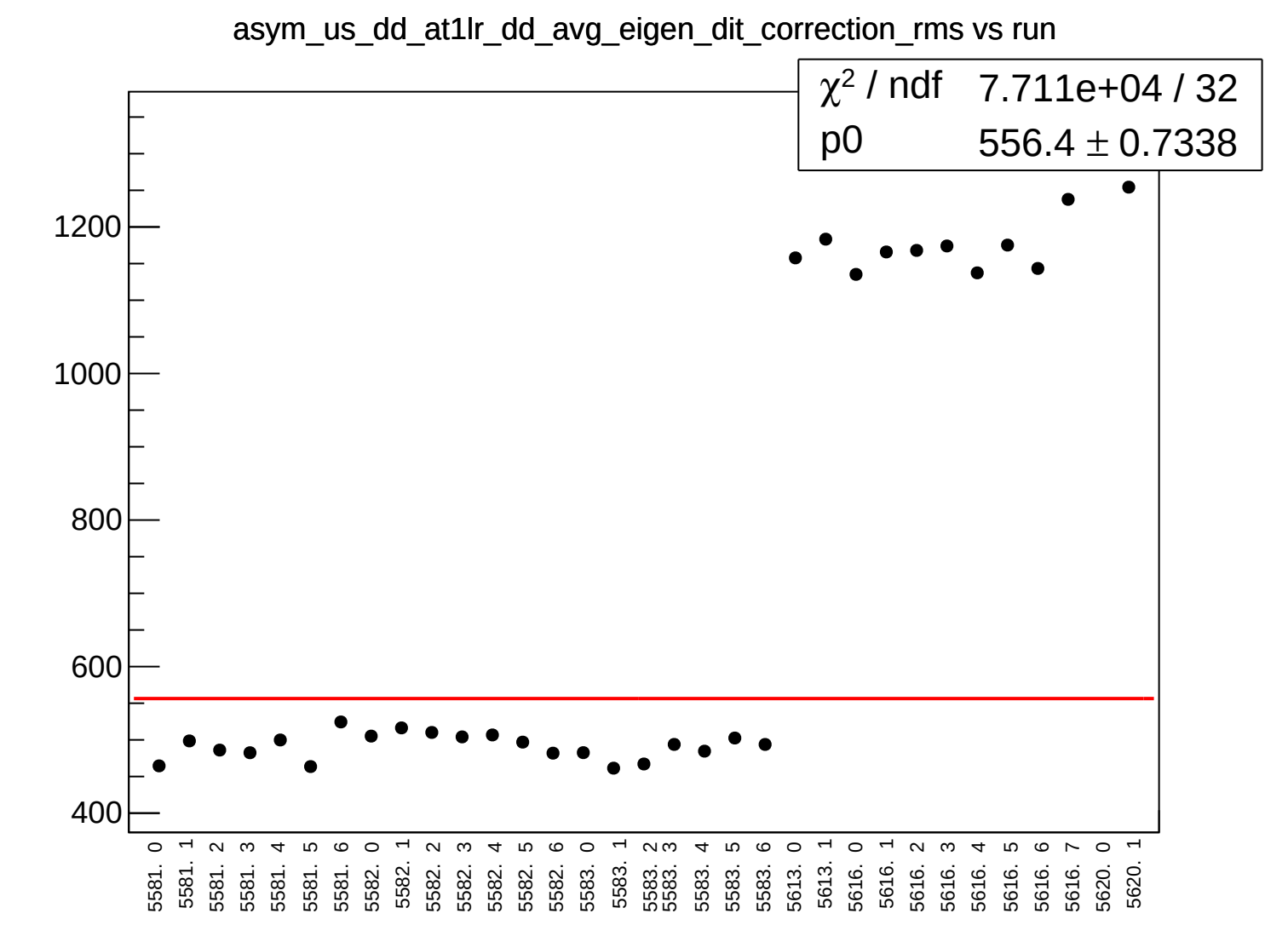

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 7.711e+04 / 32
p0 556.4 ± 0.7338
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

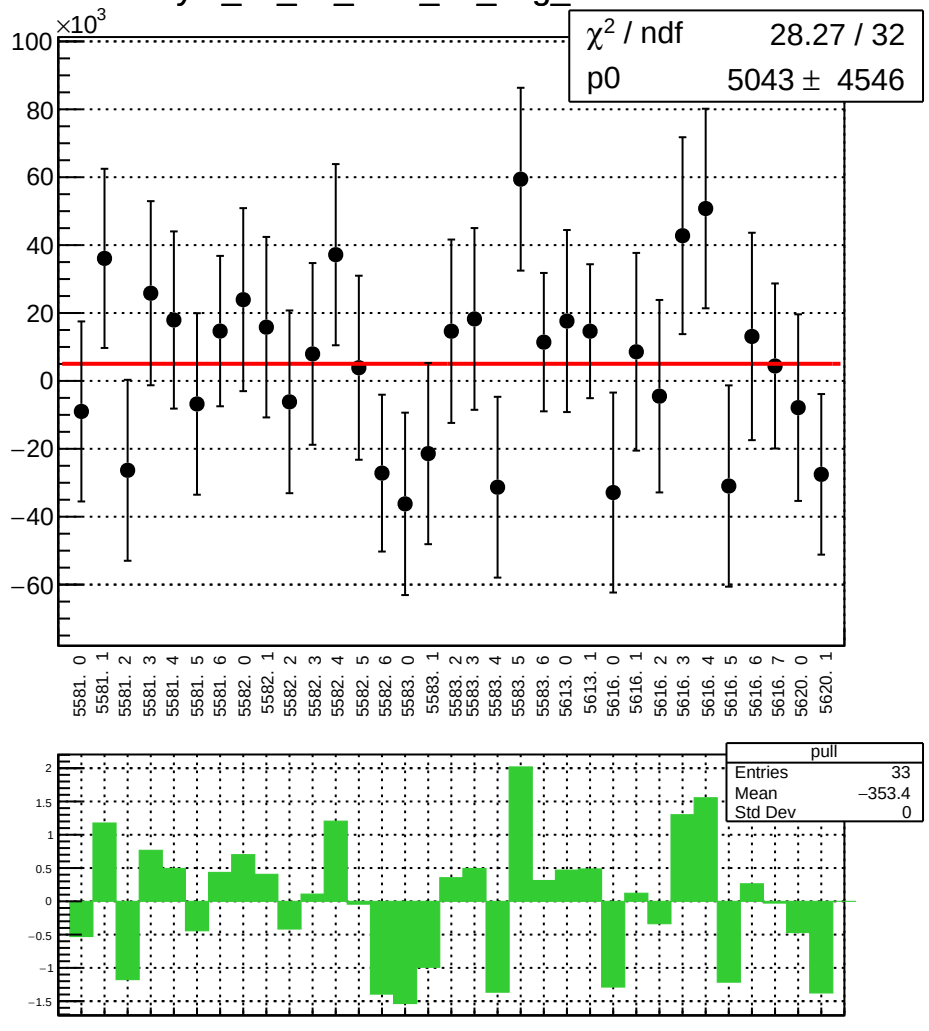

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 28.6 / 32
p0 3863 ± 4364
80000
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 721.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

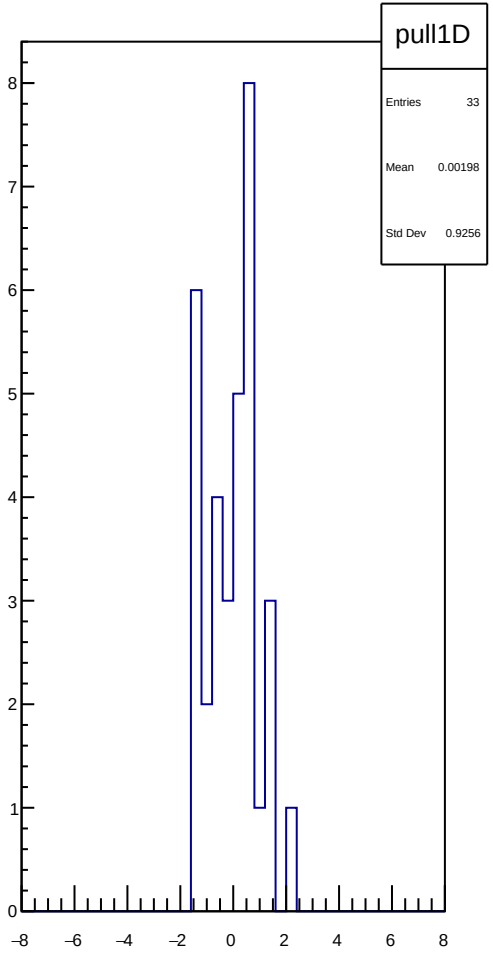

pull1D
Entries 33
Mean −0.002147
Std Dev 0.931
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

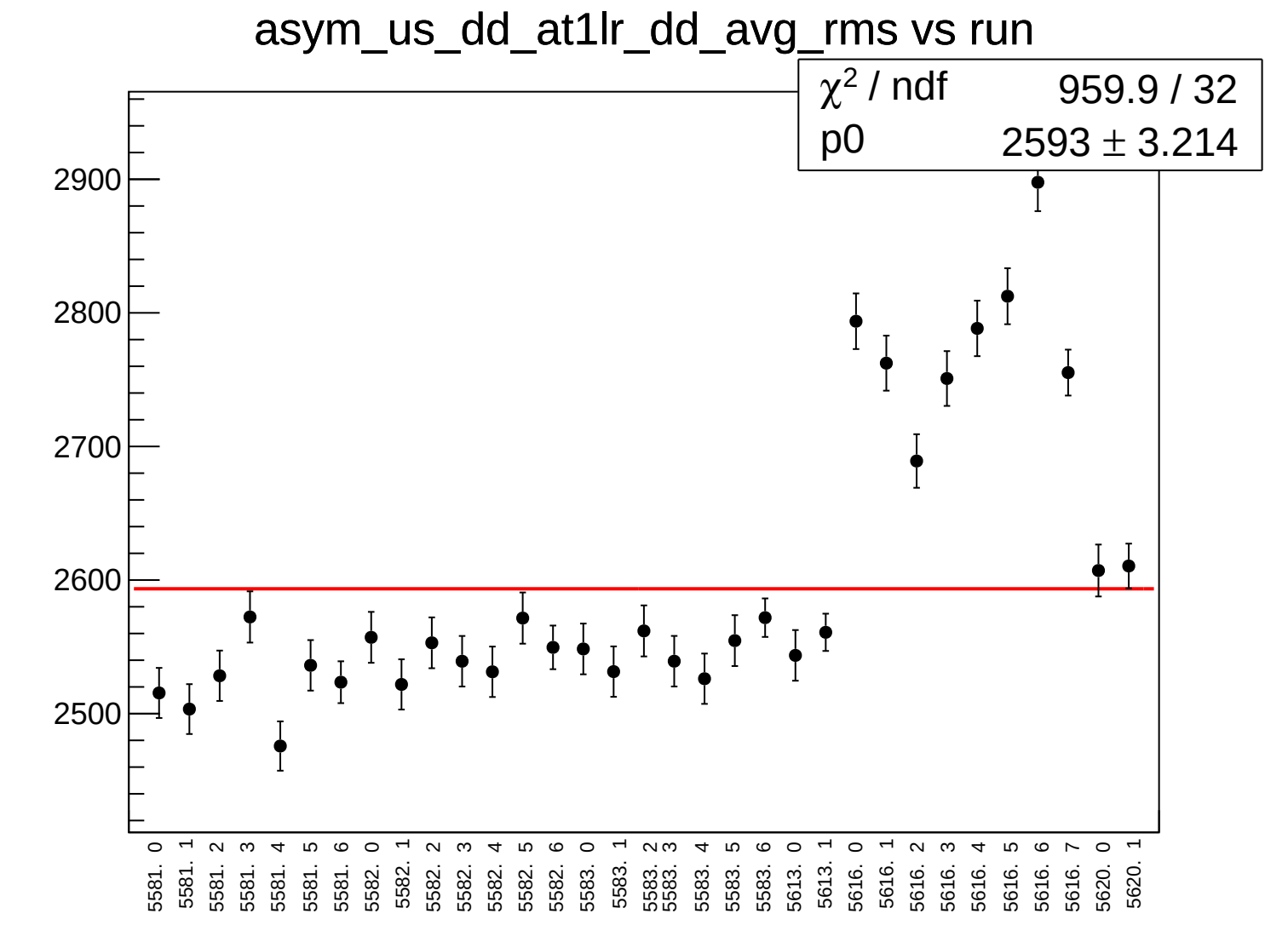

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 58.79 / 32
p0 2491 ± 3.086
2580
2560
2540
2520
2500
2480
2460
2440
2420
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

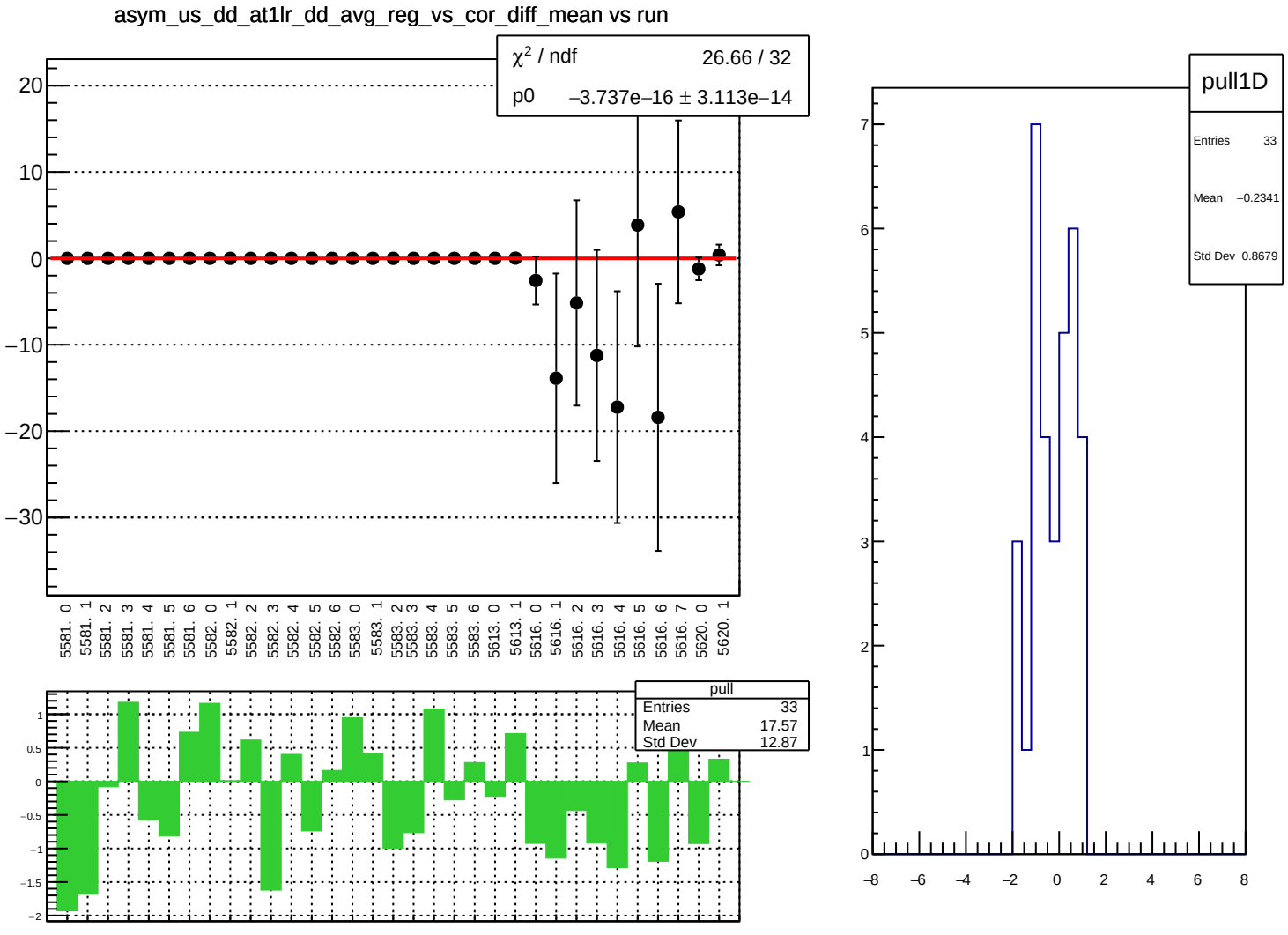

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 31.88 / 32
p0 −267 ± 1038
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 50.28
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.06984
Std Dev 0.9803
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

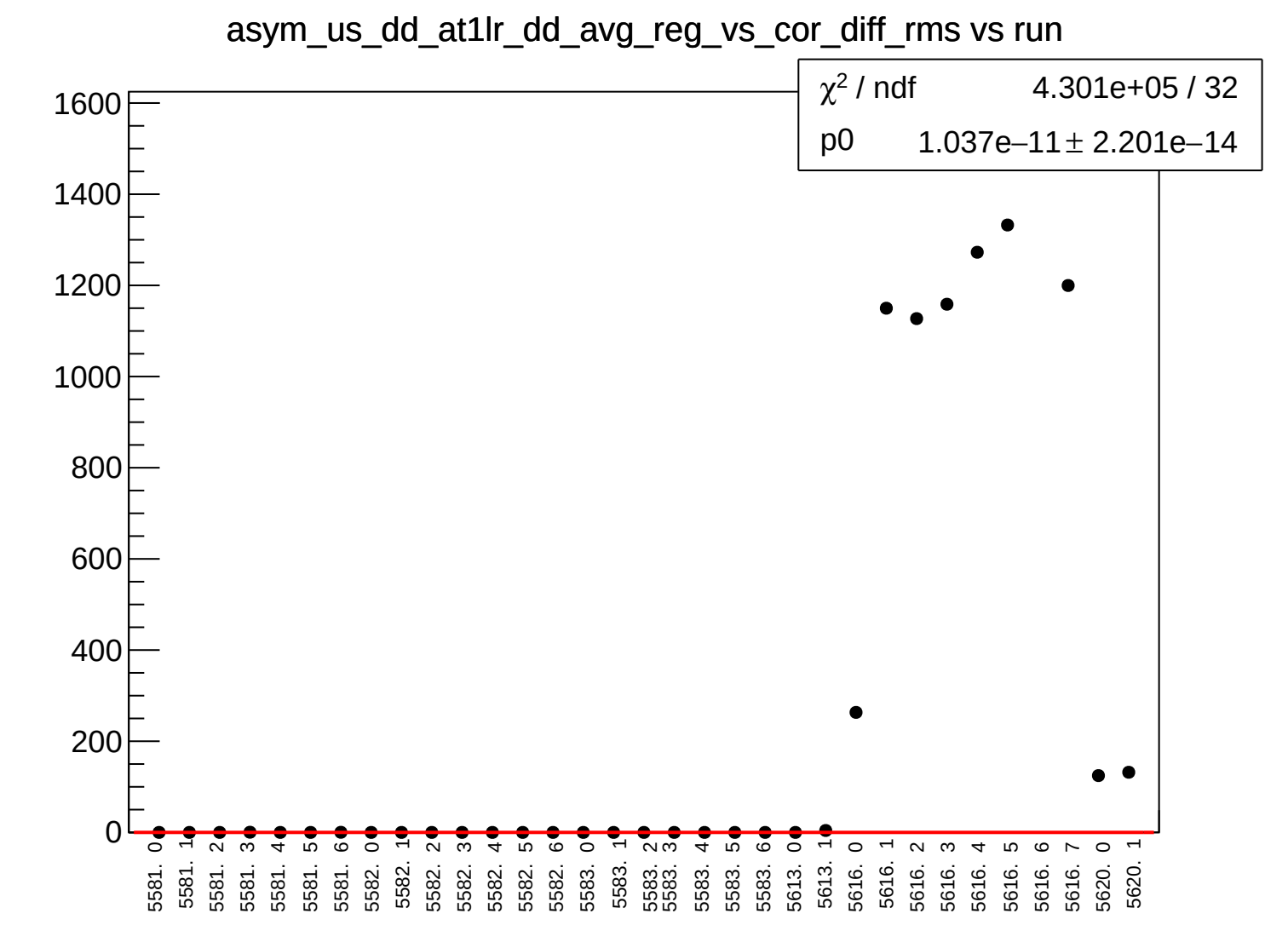

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.711e+04 / 32
p0 556.4 ± 0.7338
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

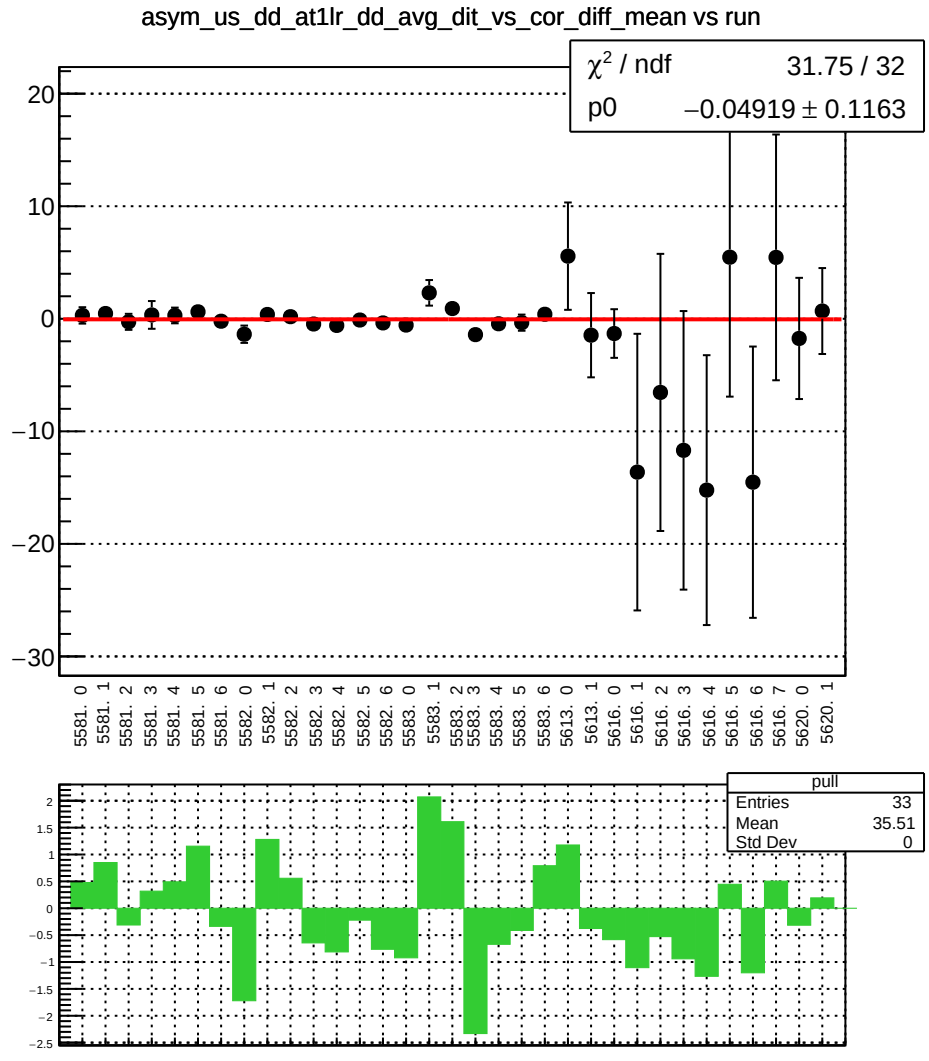

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 28.27 / 32
p0 5043 ± 4546
×10³
pull
Entries 33
Mean −353.4
Std Dev 0

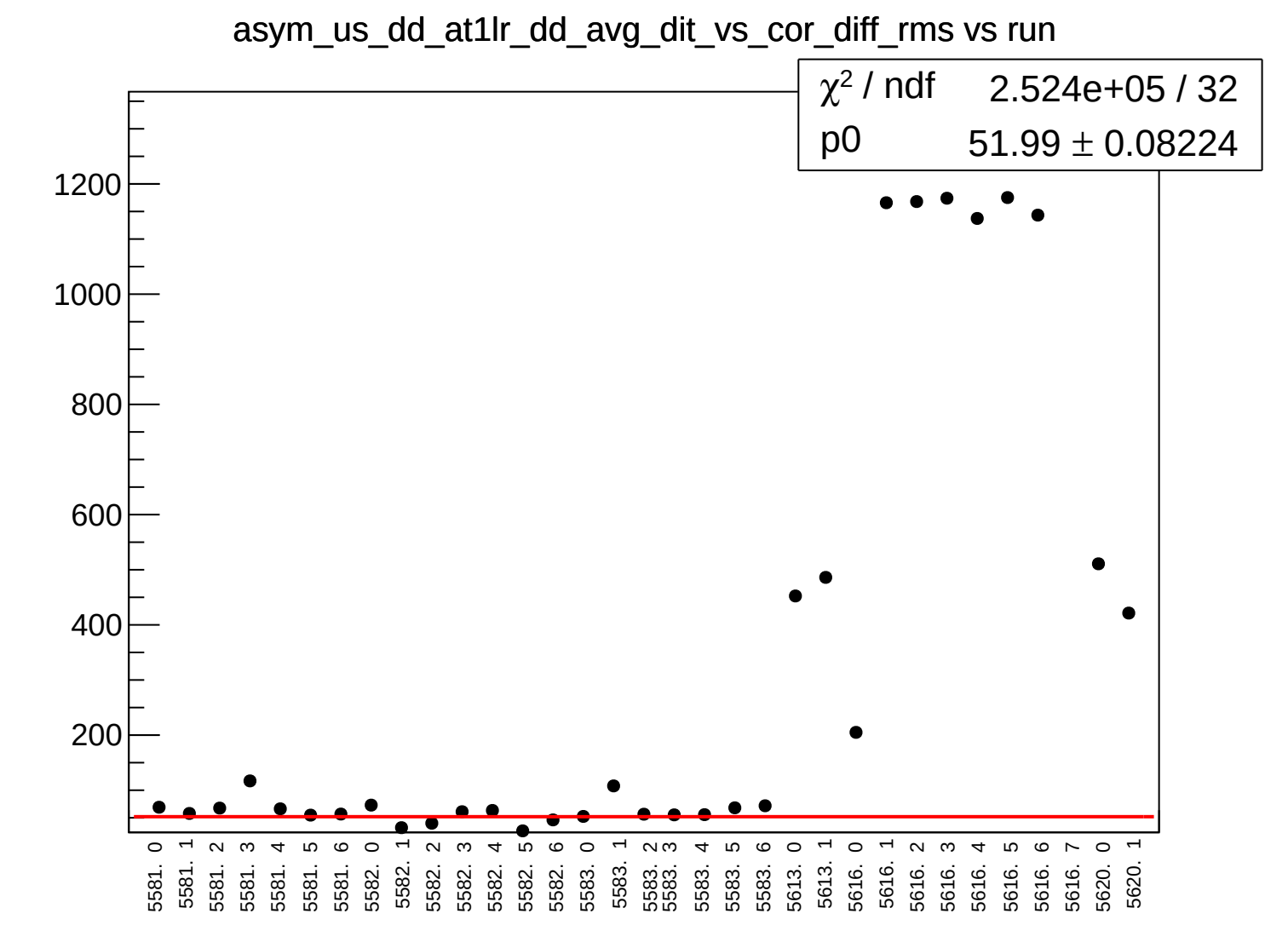

pull1D
Entries 33
Mean 0.00198
Std Dev 0.9256

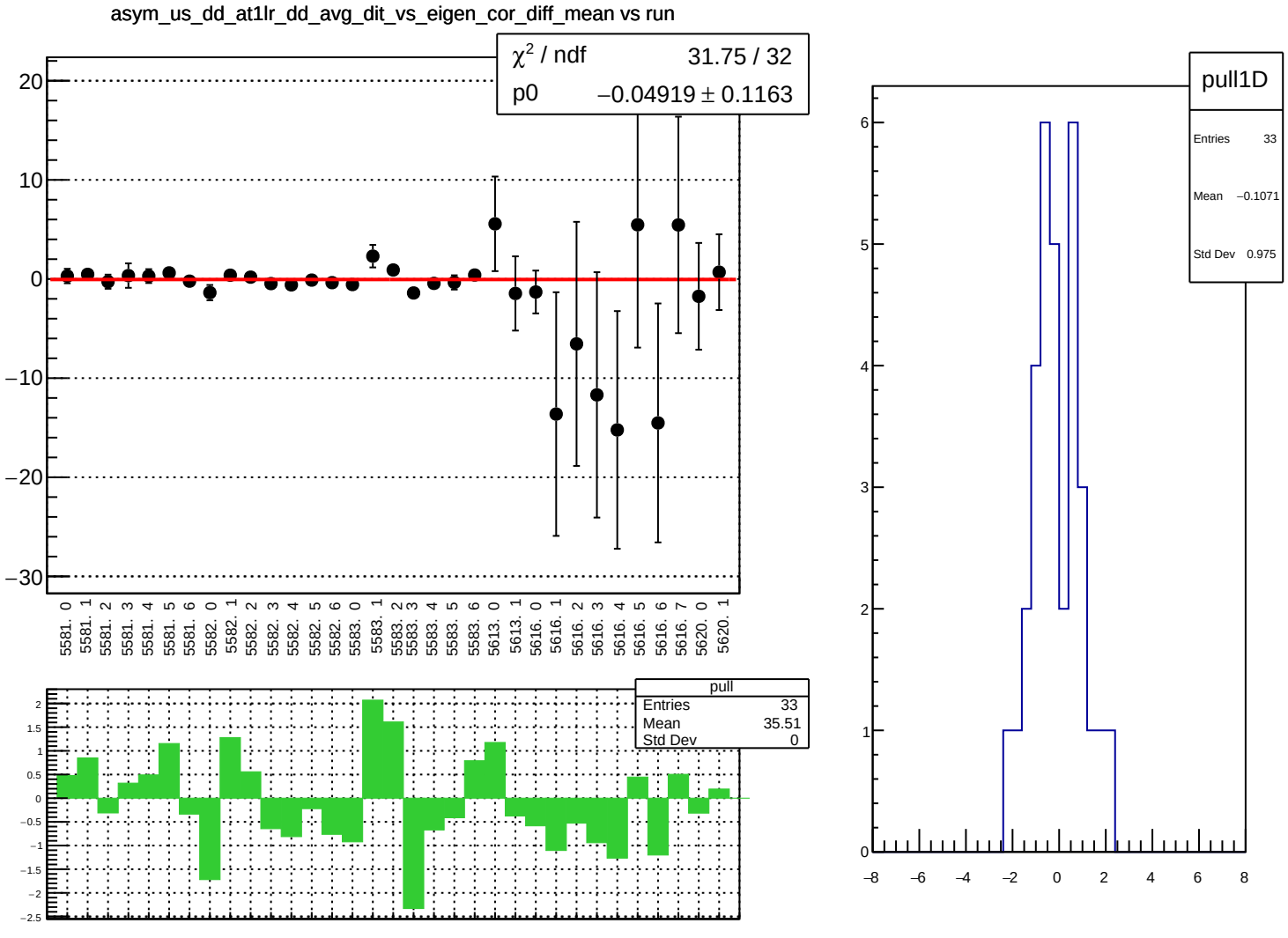

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 959.9 / 32
p0 2593 ± 3.214
2900
2800
2700
2600
2500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

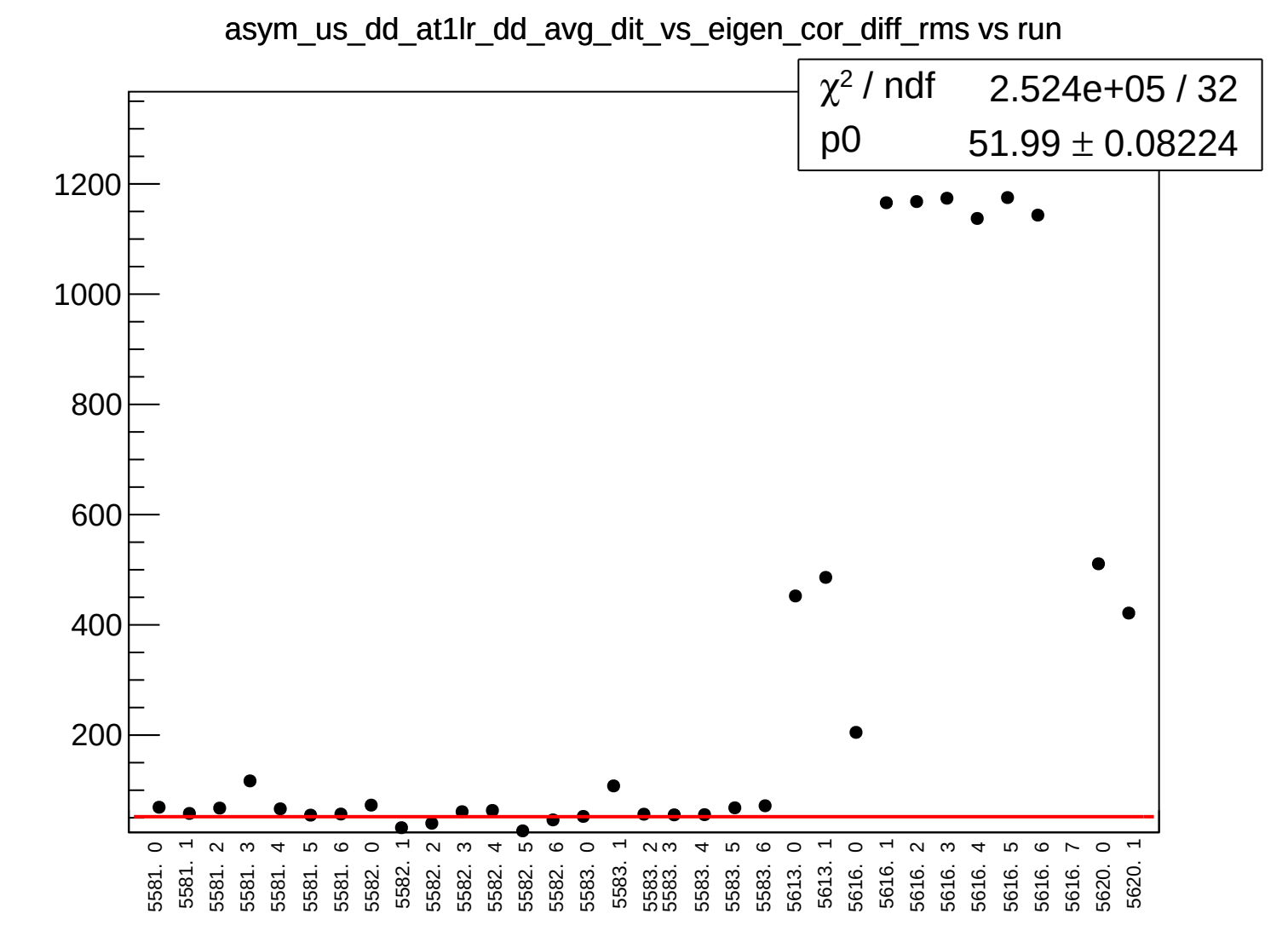

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 26.66 / 32
p0 −3.737e−16 ± 3.113e−14
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.57
Std Dev 12.87
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.2341
Std Dev 0.8679
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

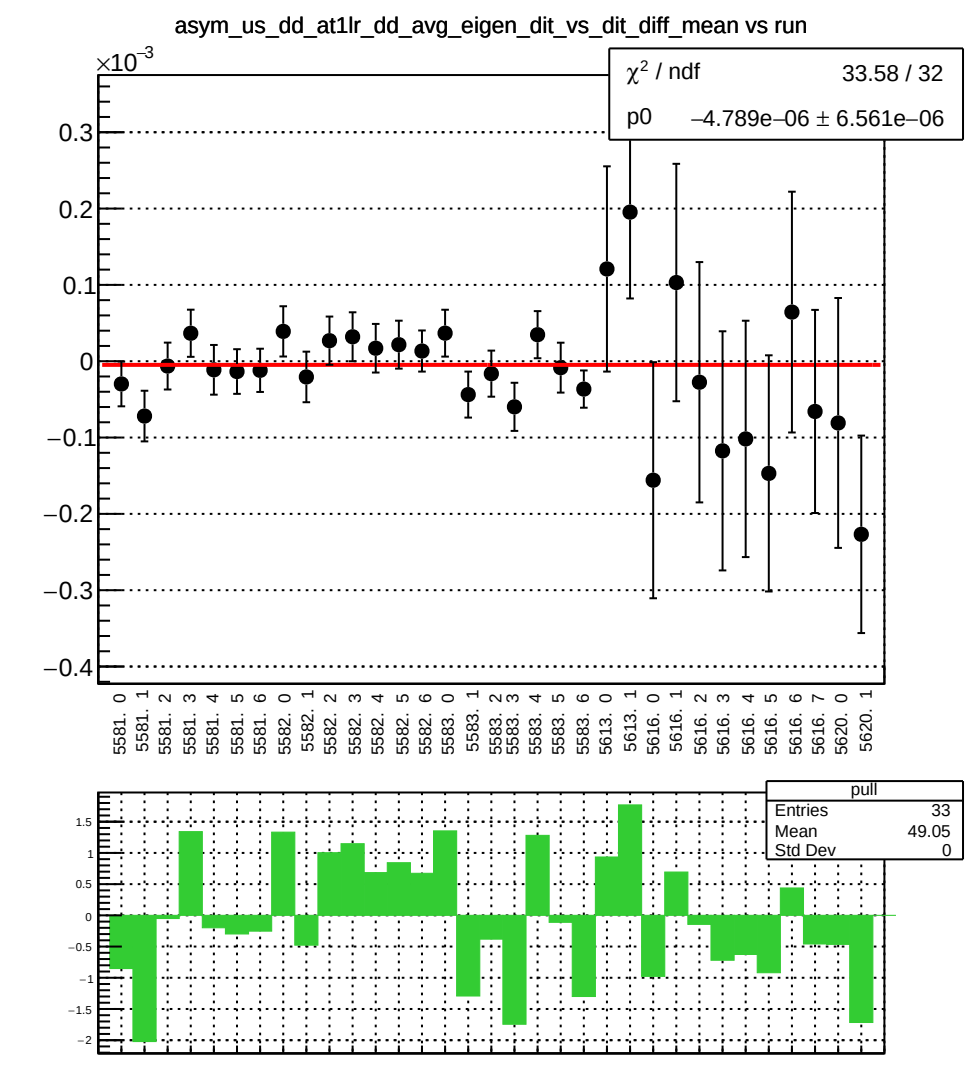

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.301e+05 / 32
p0 1.037e−11 ± 2.201e−14
1600
1400
1200
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

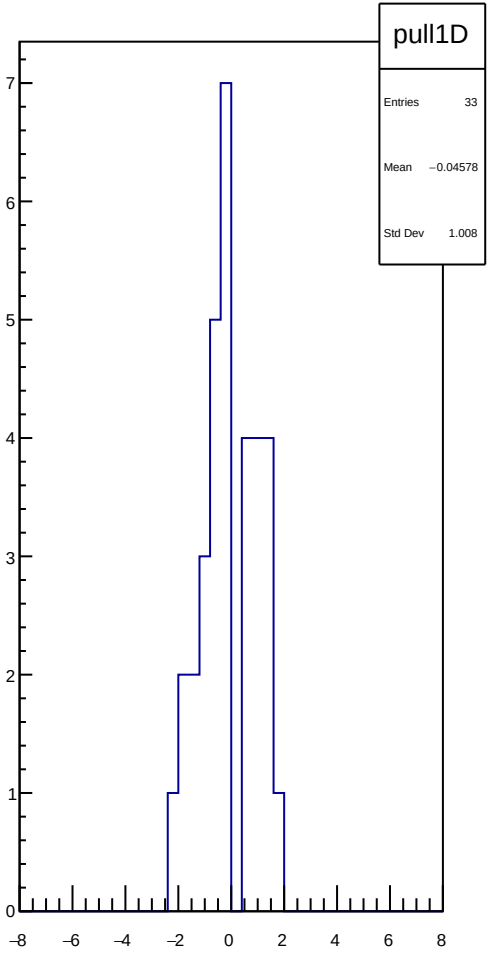

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 31.75 / 32
p0 −0.04919 ± 0.1163
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.1071
Std Dev 0.975
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

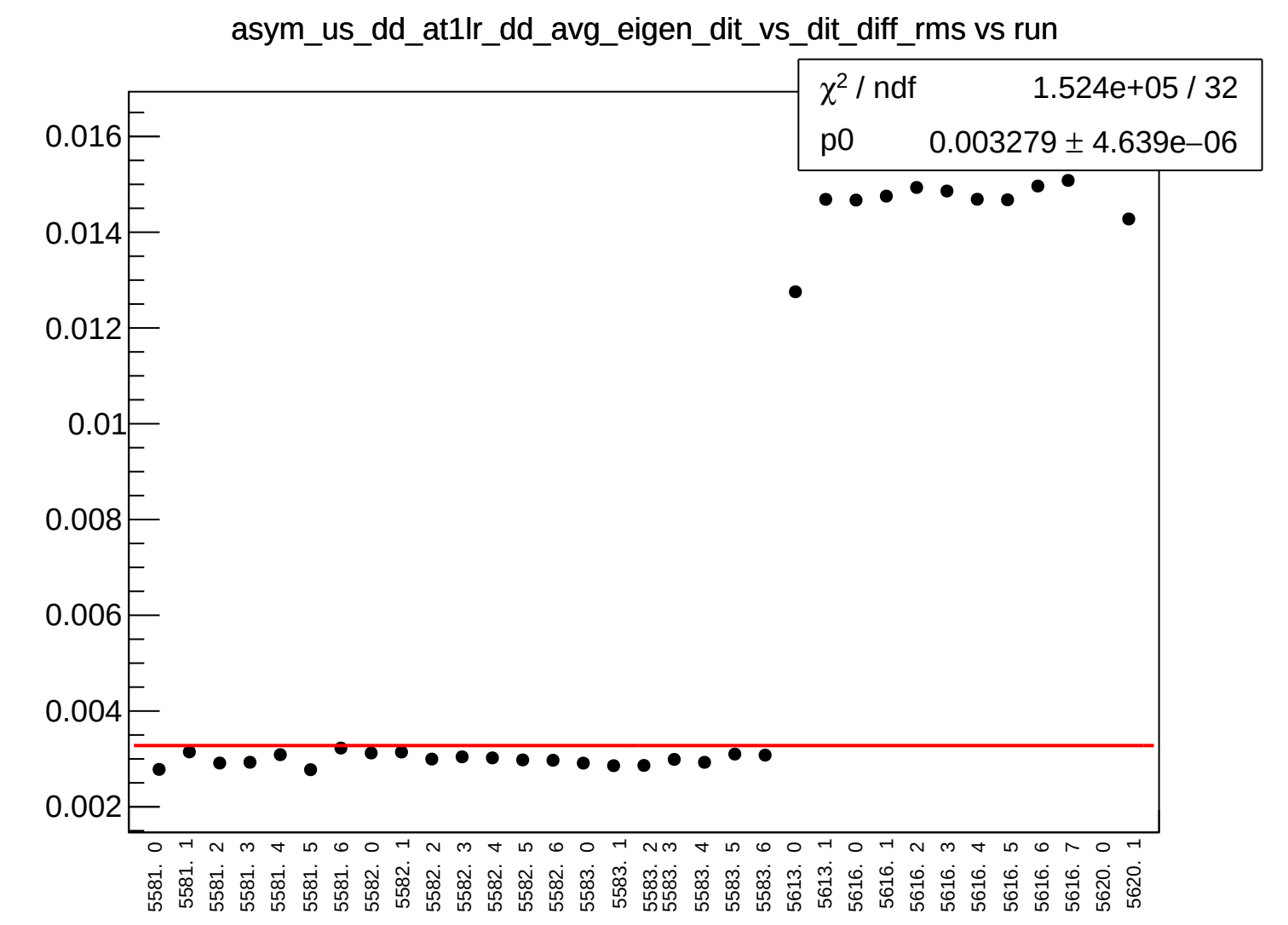

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.524e+05 / 32
p0 51.99 ± 0.08224
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

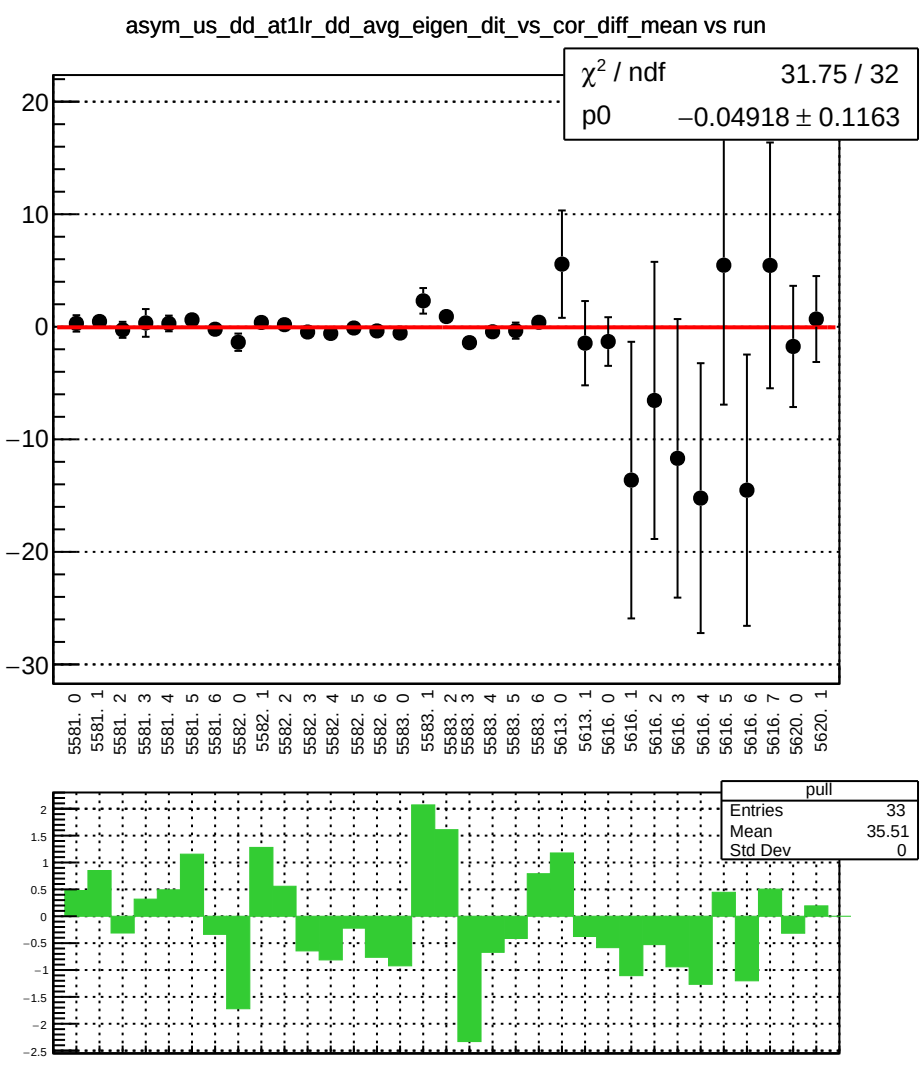

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.75 / 32
p0 −0.04919 ± 0.1163
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.1071
Std Dev 0.975
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

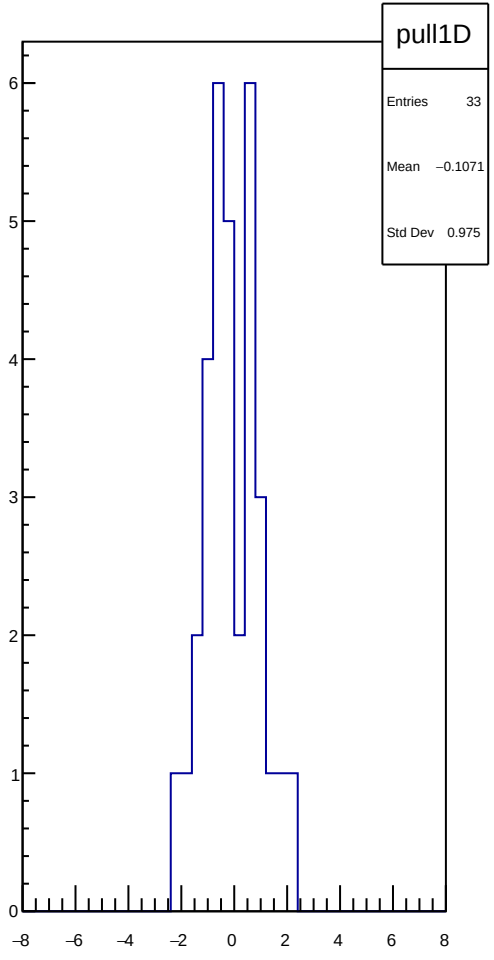

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.524e+05 / 32
p0 51.99 ± 0.08224
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

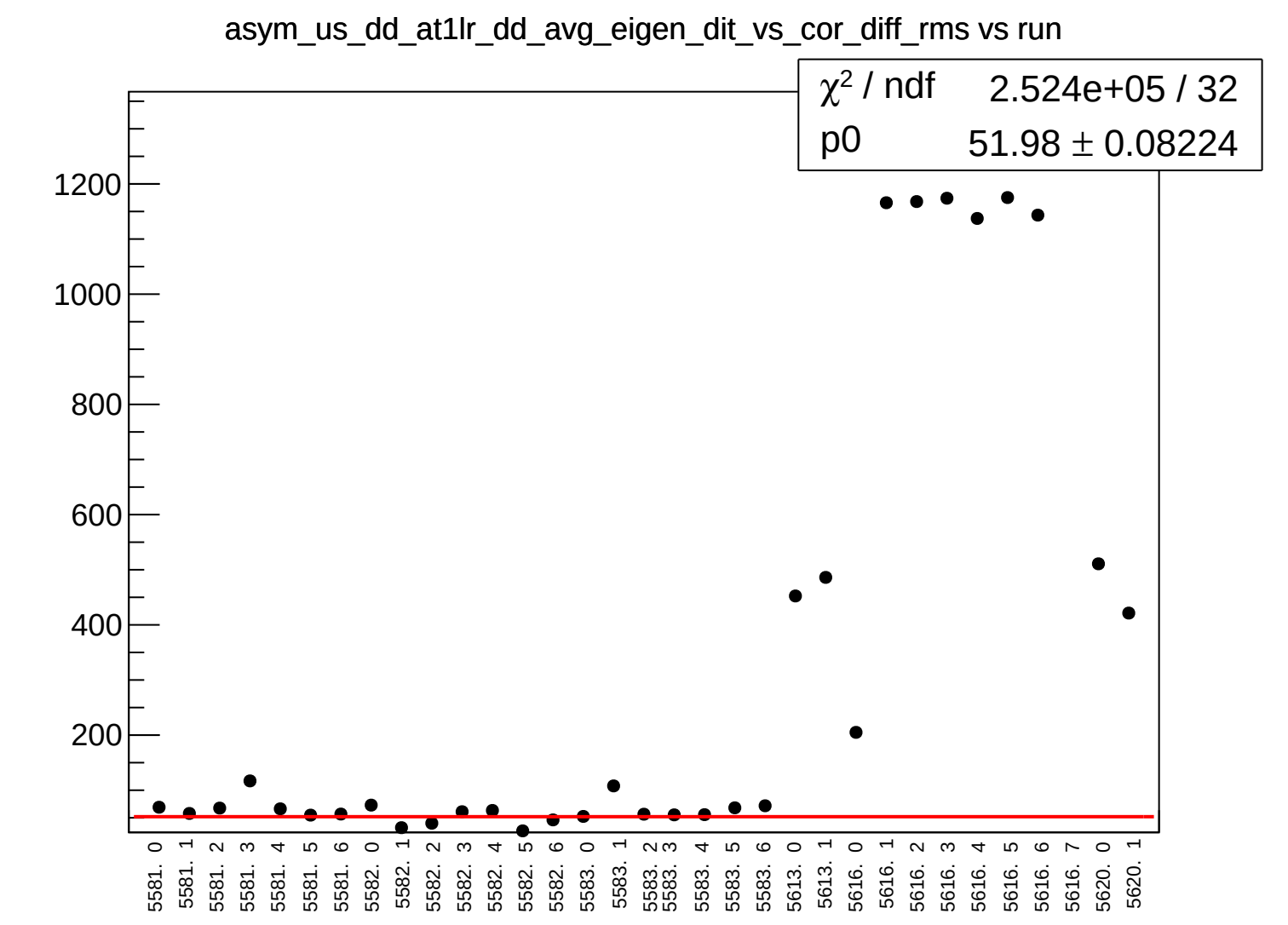

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.58 / 32
p0 −4.789e−06 ± 6.561e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

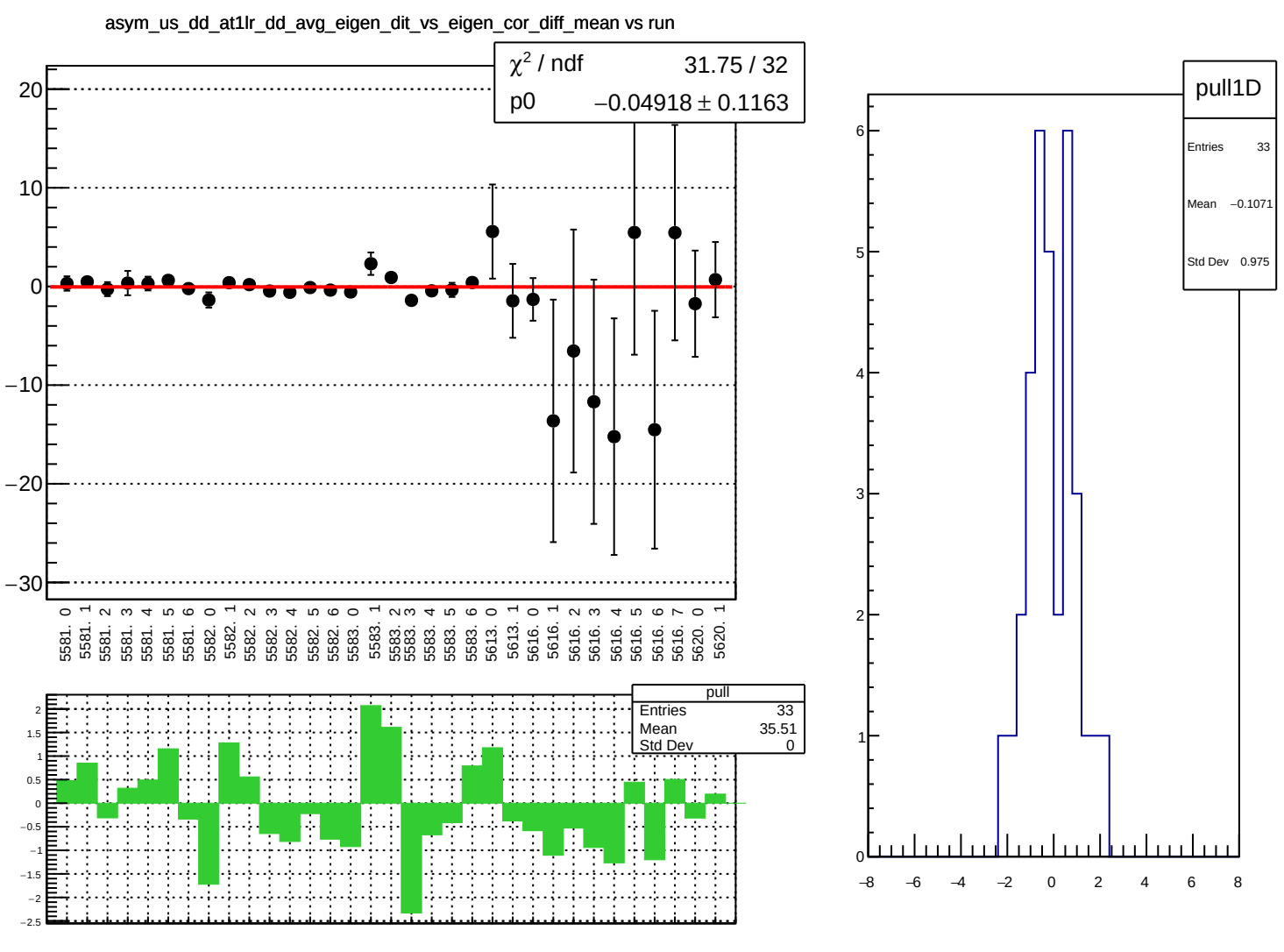

pull1D
Entries 33
Mean −0.04578
Std Dev 1.008
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

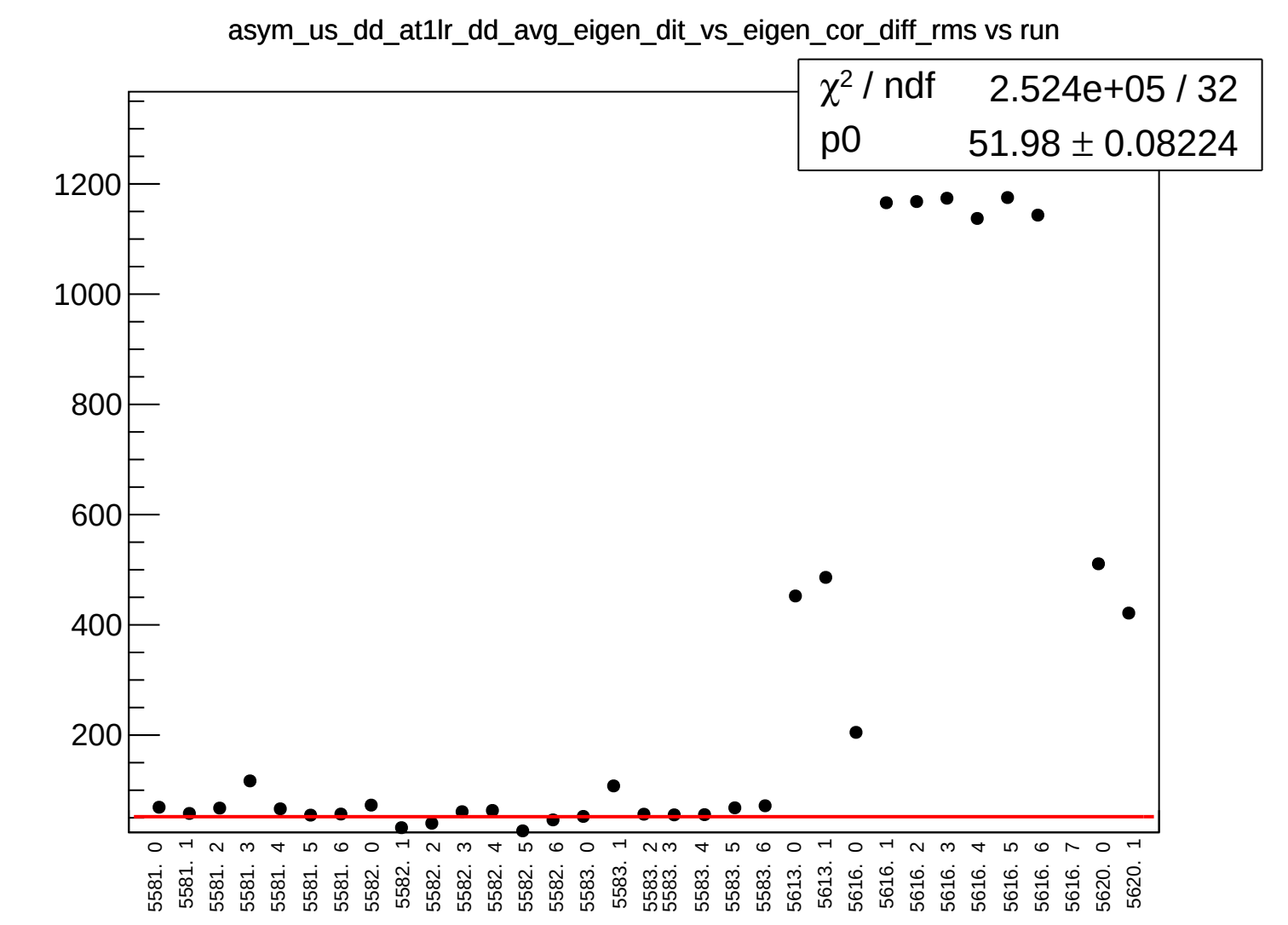

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.524e+05 / 32
p0 0.003279 ± 4.639e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

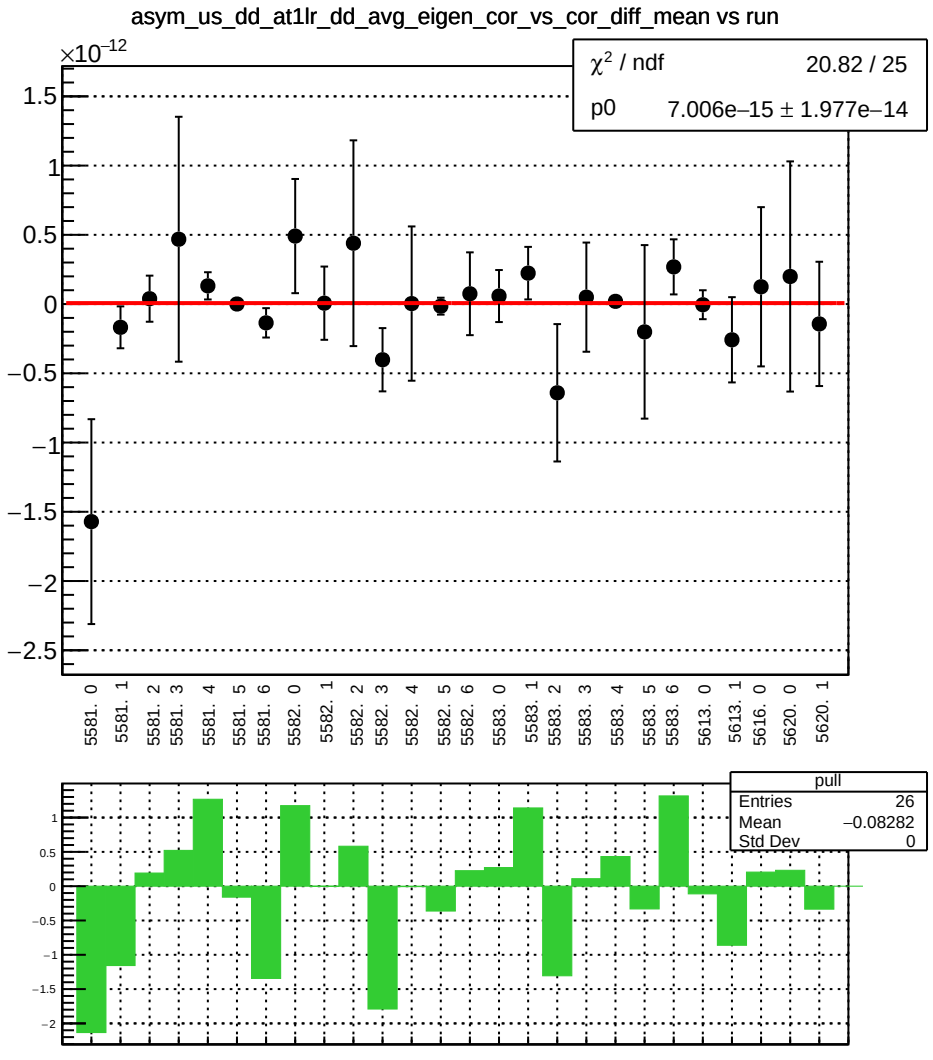

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.75 / 32
p0 −0.04918 ± 0.1163
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

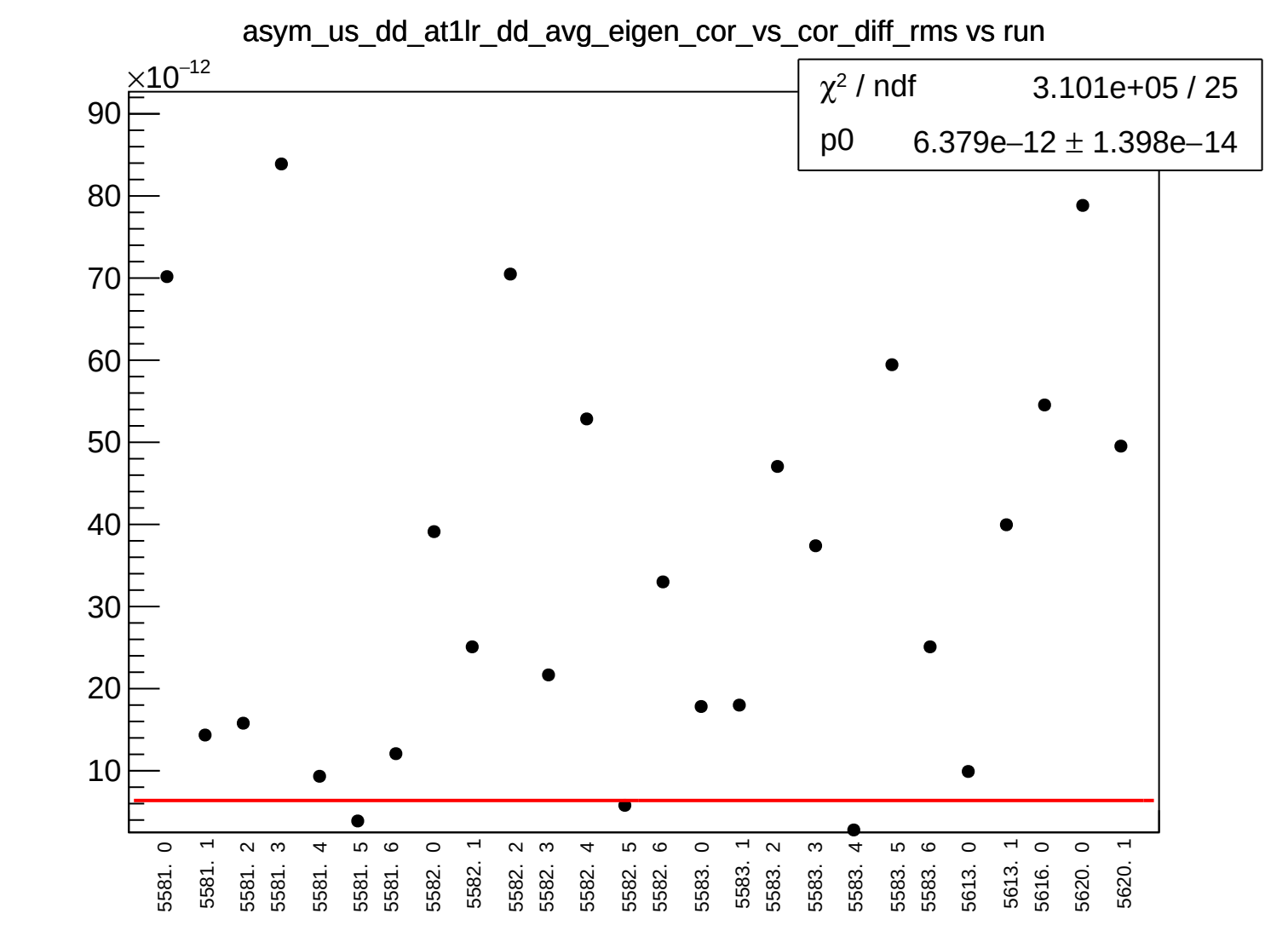

pull1D
Entries 33
Mean −0.1071
Std Dev 0.975
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

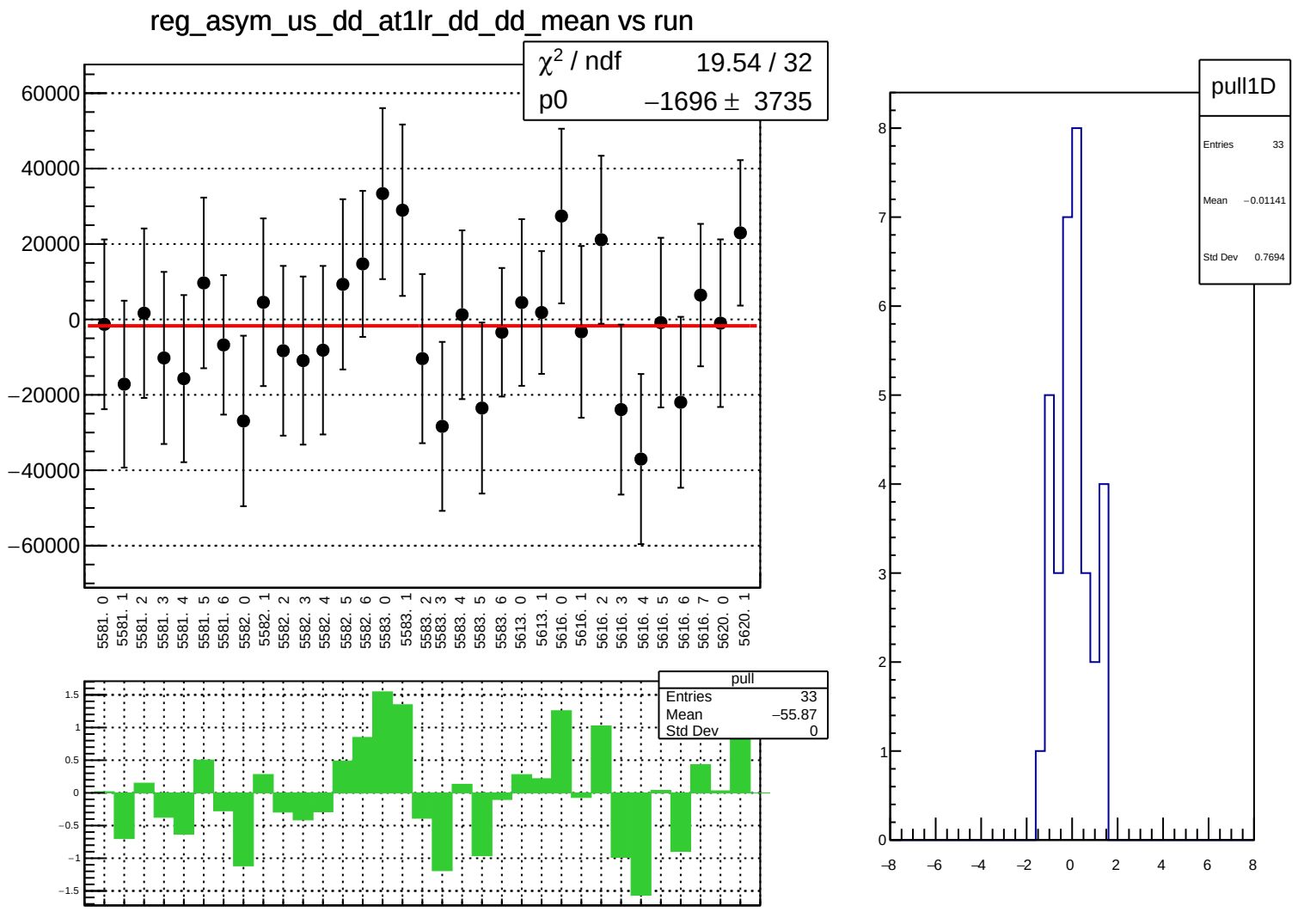

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.524e+05 / 32
p0 51.98 ± 0.08224
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

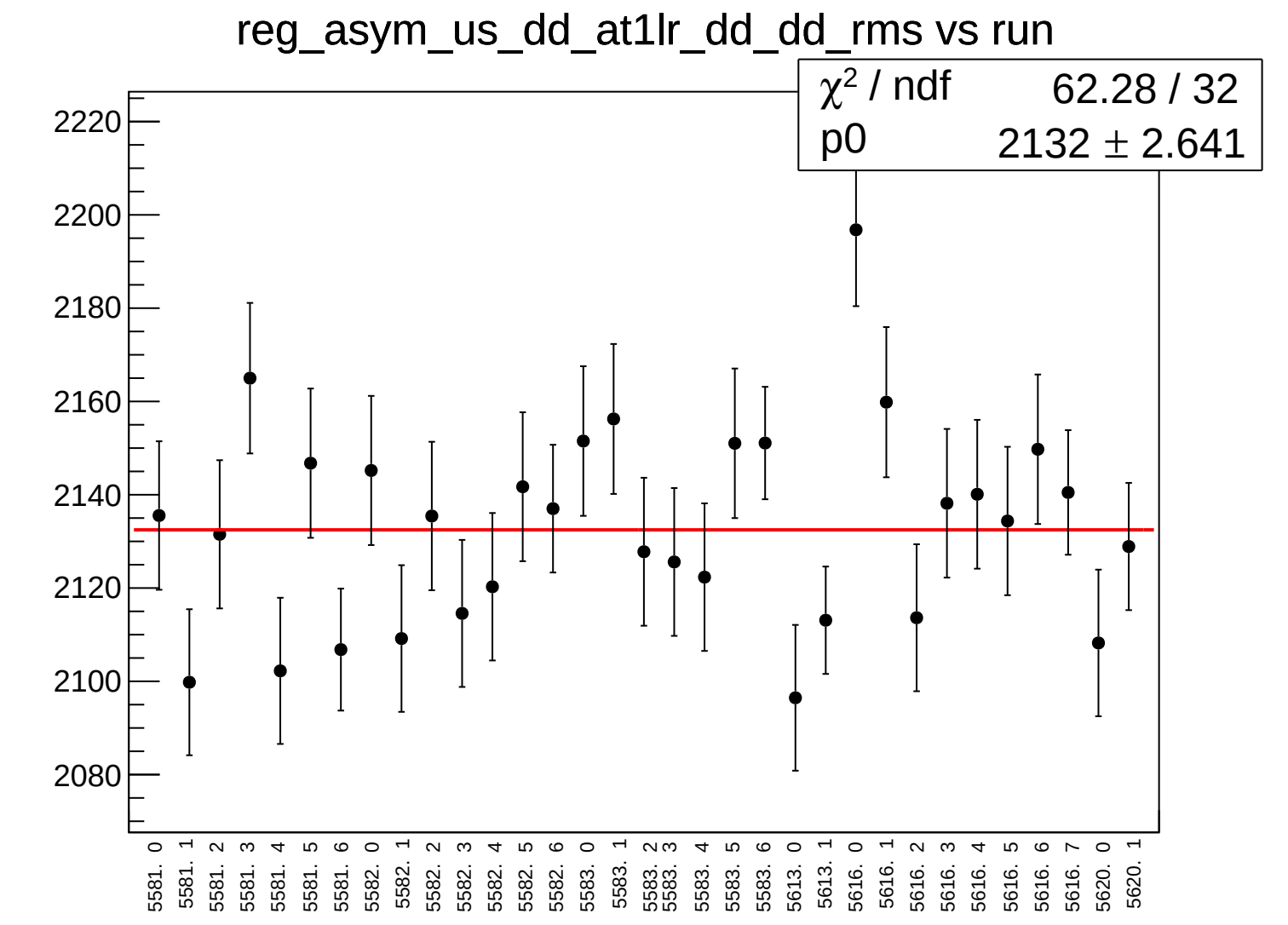

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.75 / 32
p0 −0.04918 ± 0.1163
pull
Entries 33
Mean 35.51
Std Dev 0
pull1D
Entries 33
Mean −0.1071
Std Dev 0.975

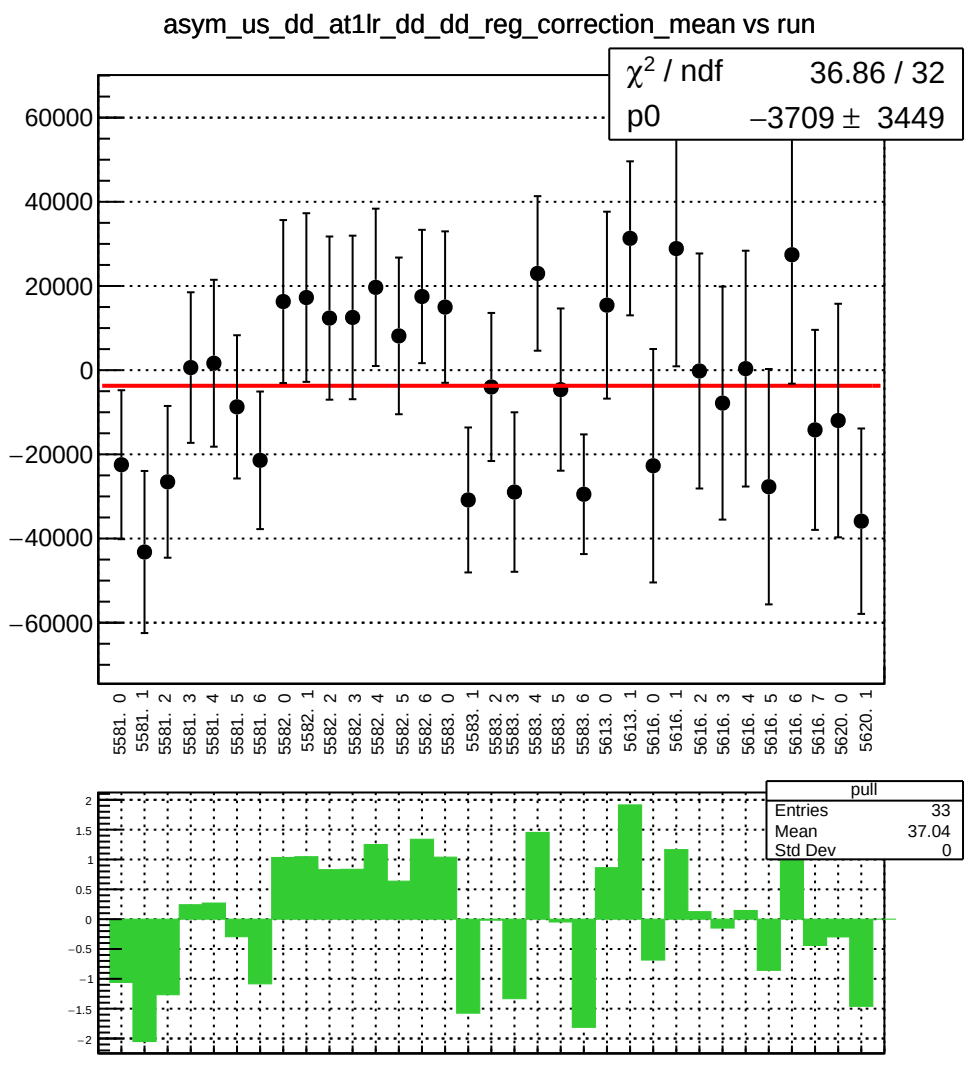

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.524e+05 / 32
p0 51.98 ± 0.08224
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

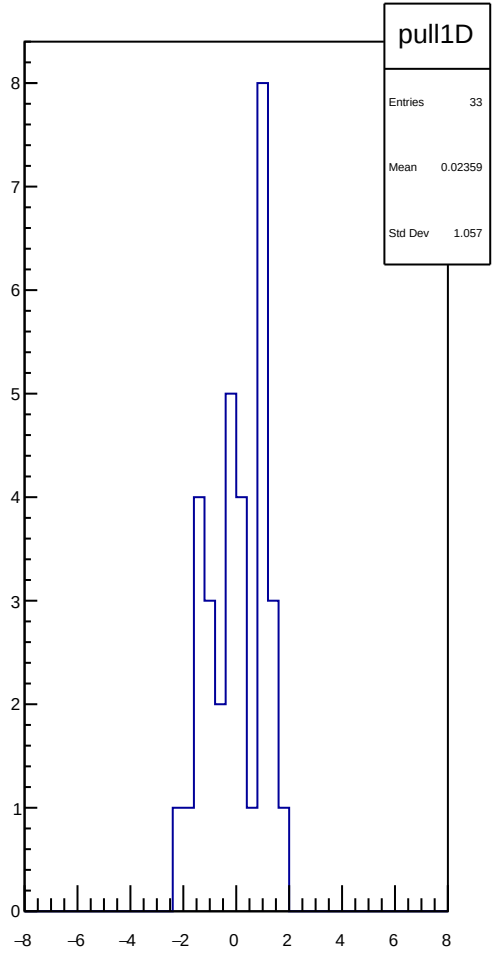

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 20.82 / 25
p0 7.006e−15 ± 1.977e−14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −0.08282
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.08596
Std Dev 0.8907
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

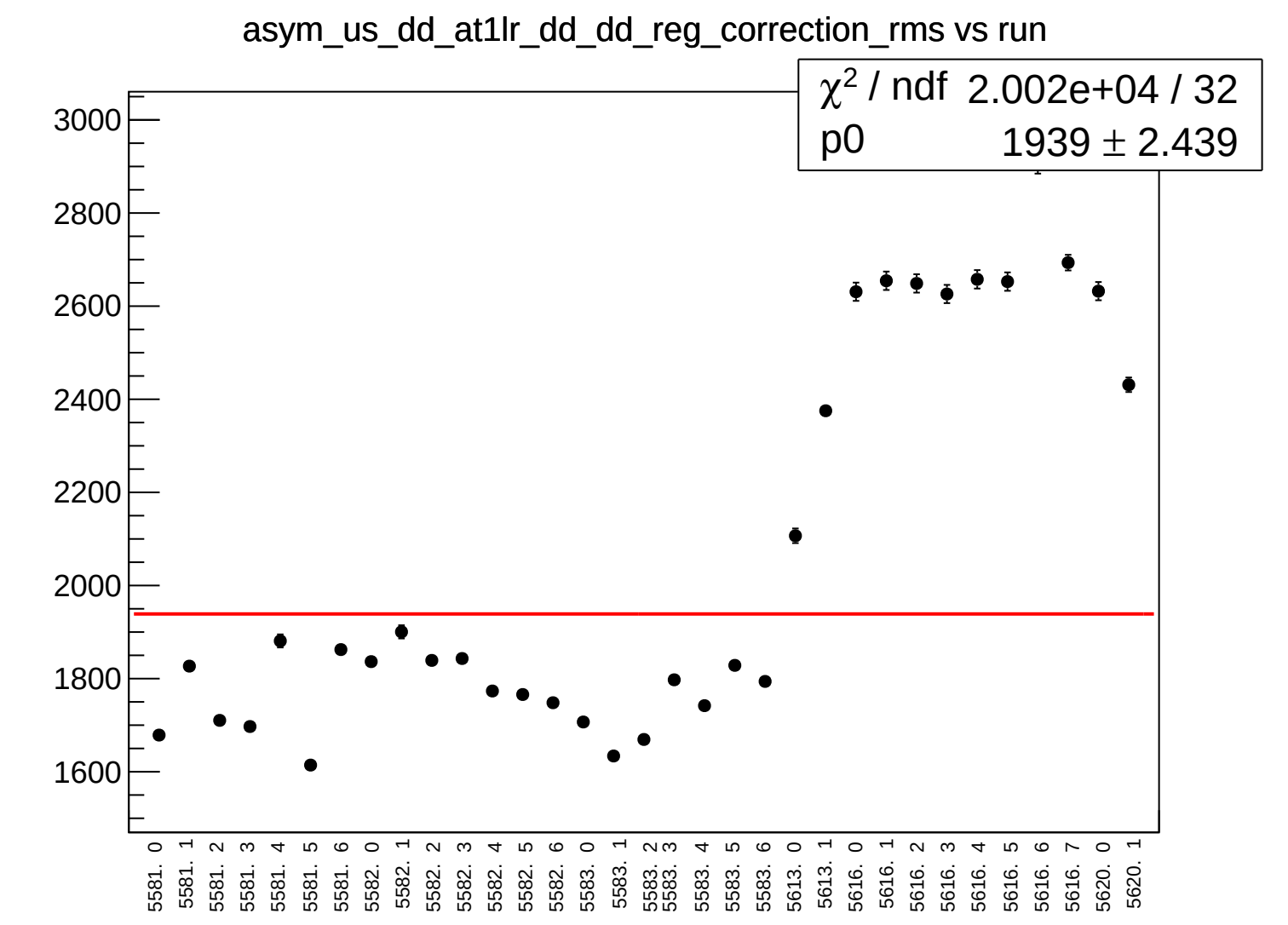

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 3.101e+05 / 25
p0 6.379e−12 ± 1.398e−14
90
80
70
60
50
40
30
20
10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

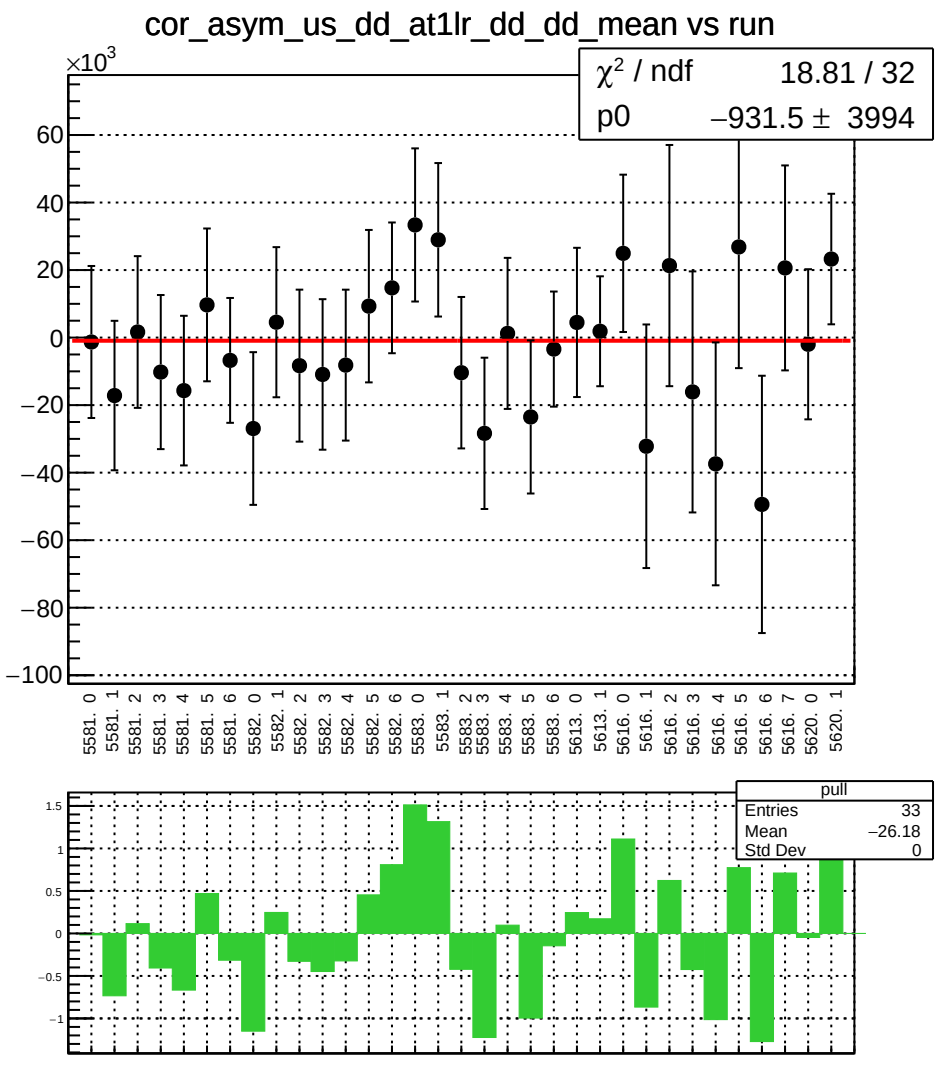

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 19.54 / 32
p0 −1696 ± 3735
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −55.87
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.01141
Std Dev 0.7694
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

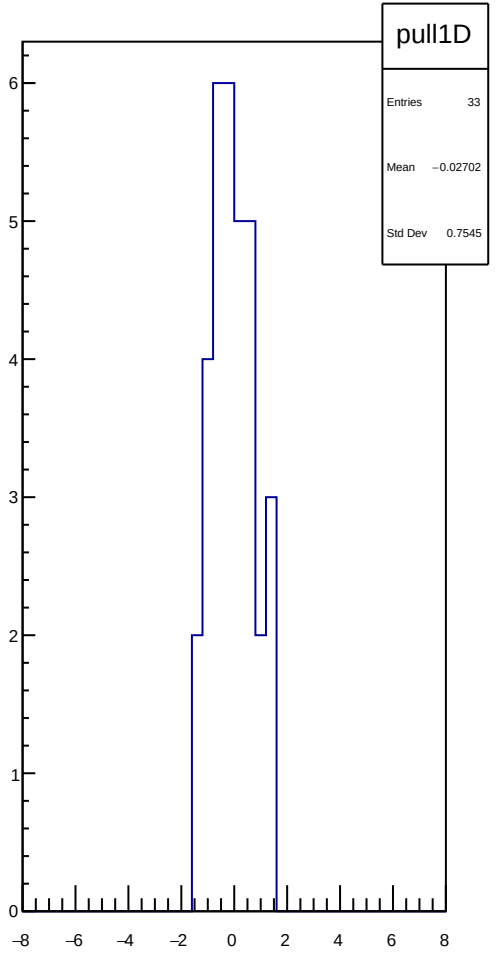

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 62.28 / 32
p0 2132 ± 2.641
2220
2200
2180
2160
2140
2120
2100
2080
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

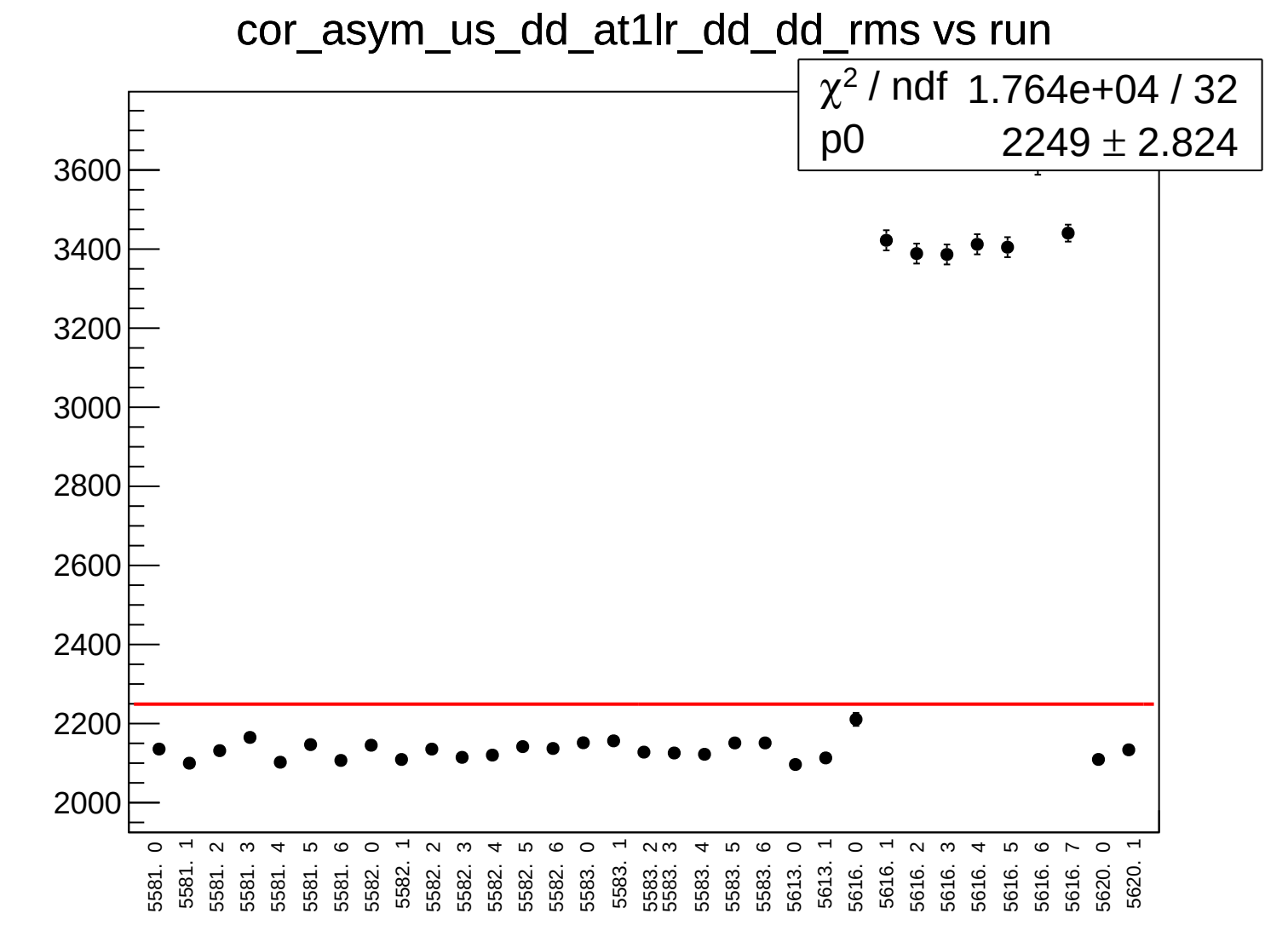

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 36.86 / 32
p0 −3709 ± 3449
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

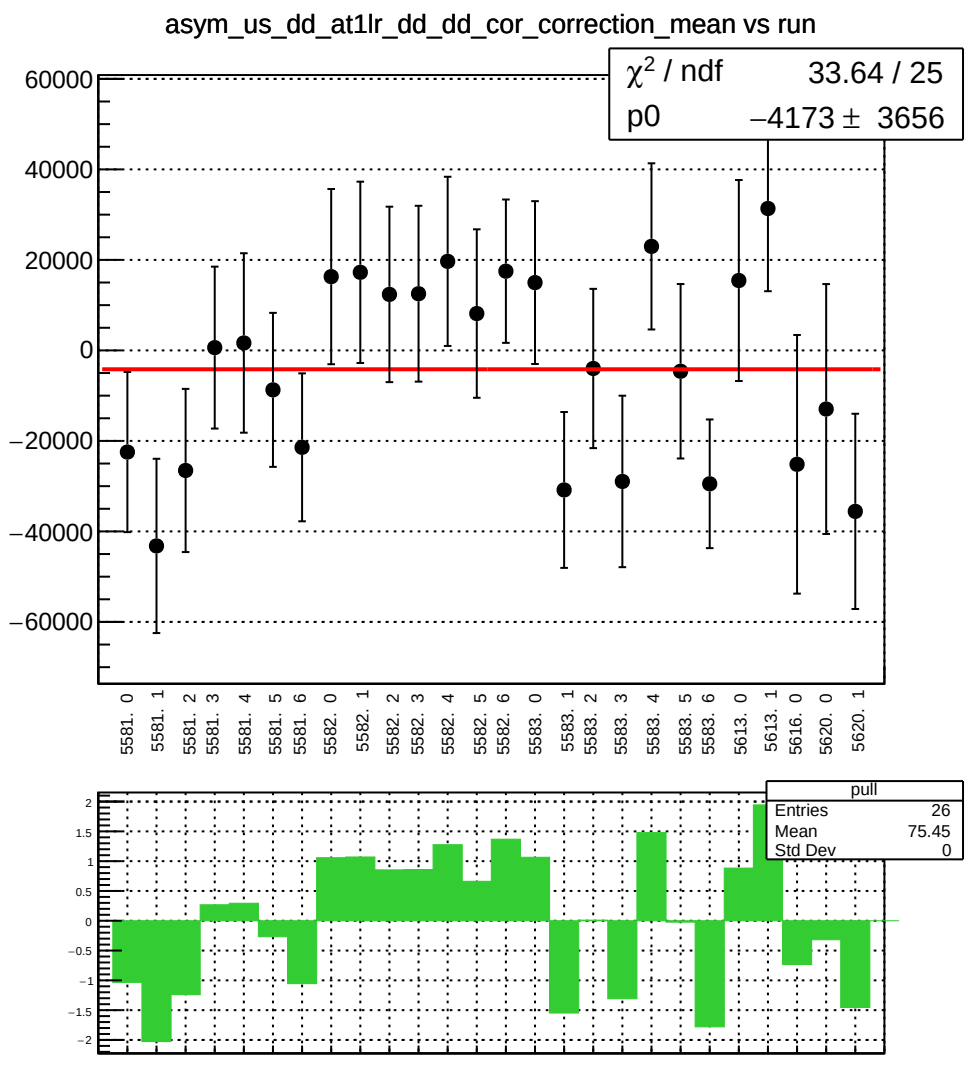

pull1D
Entries 33
Mean 0.02359
Std Dev 1.057
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

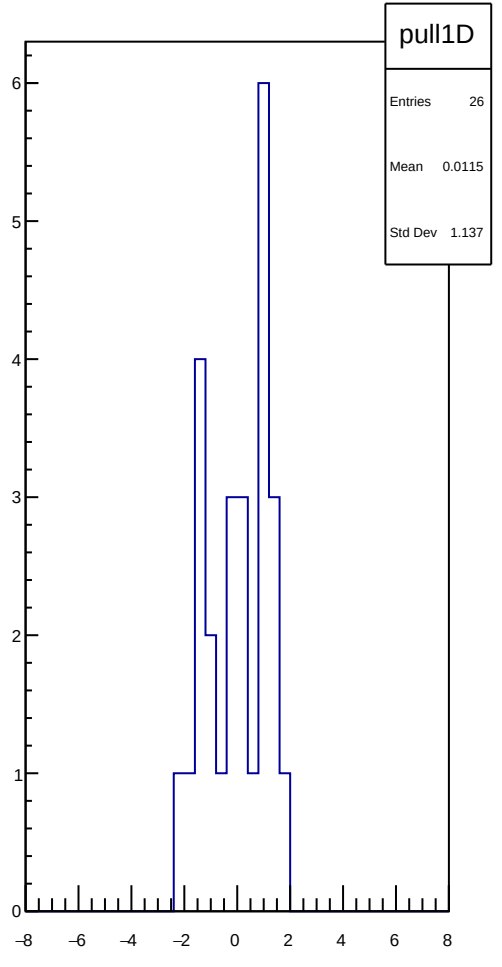

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.002e+04 / 32
p0 1939 ± 2.439
3000
2800
2600
2400
2200
2000
1800
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

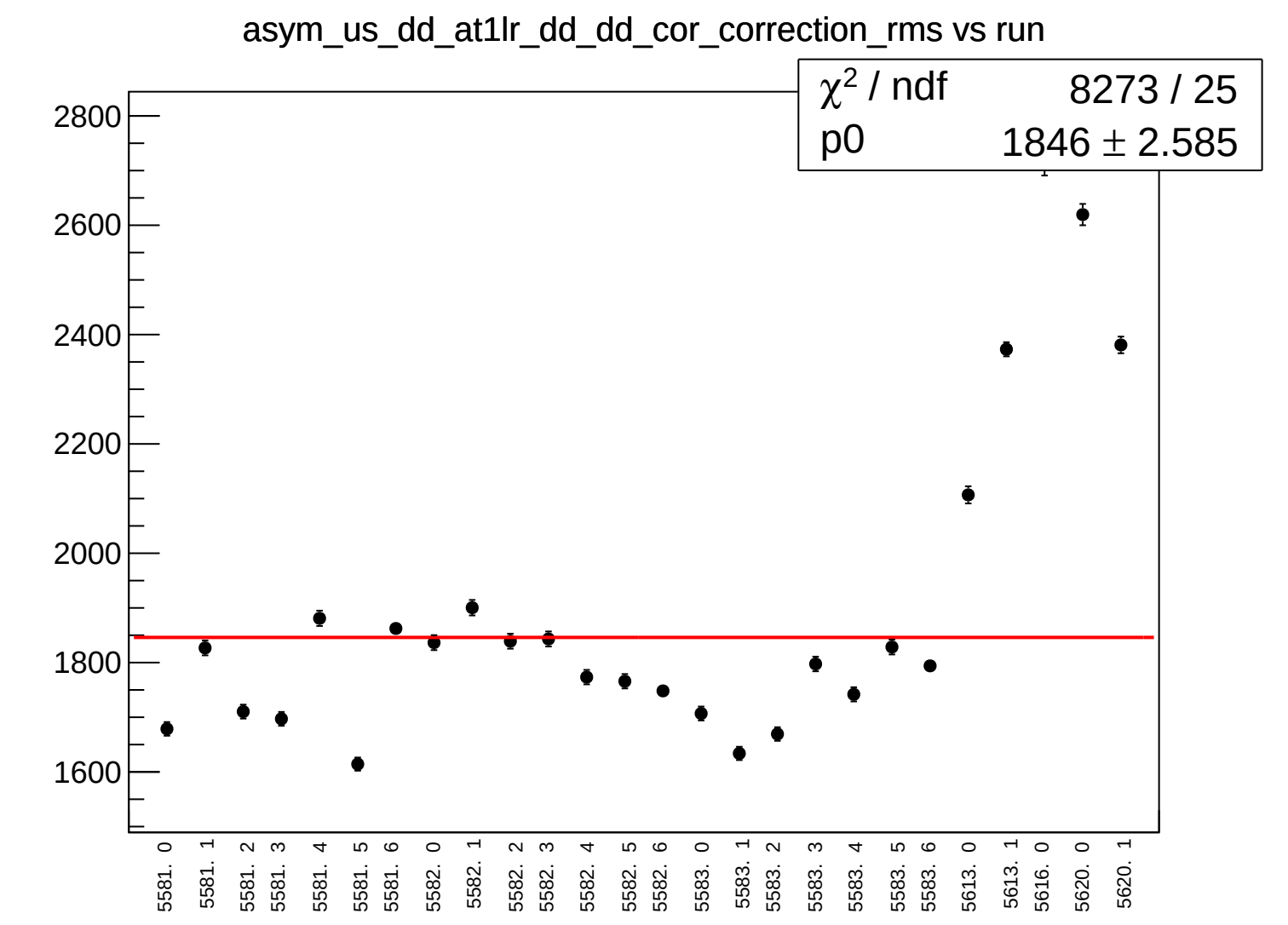

cor_asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 18.81 / 32
p0 −931.5 ± 3994
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −26.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1

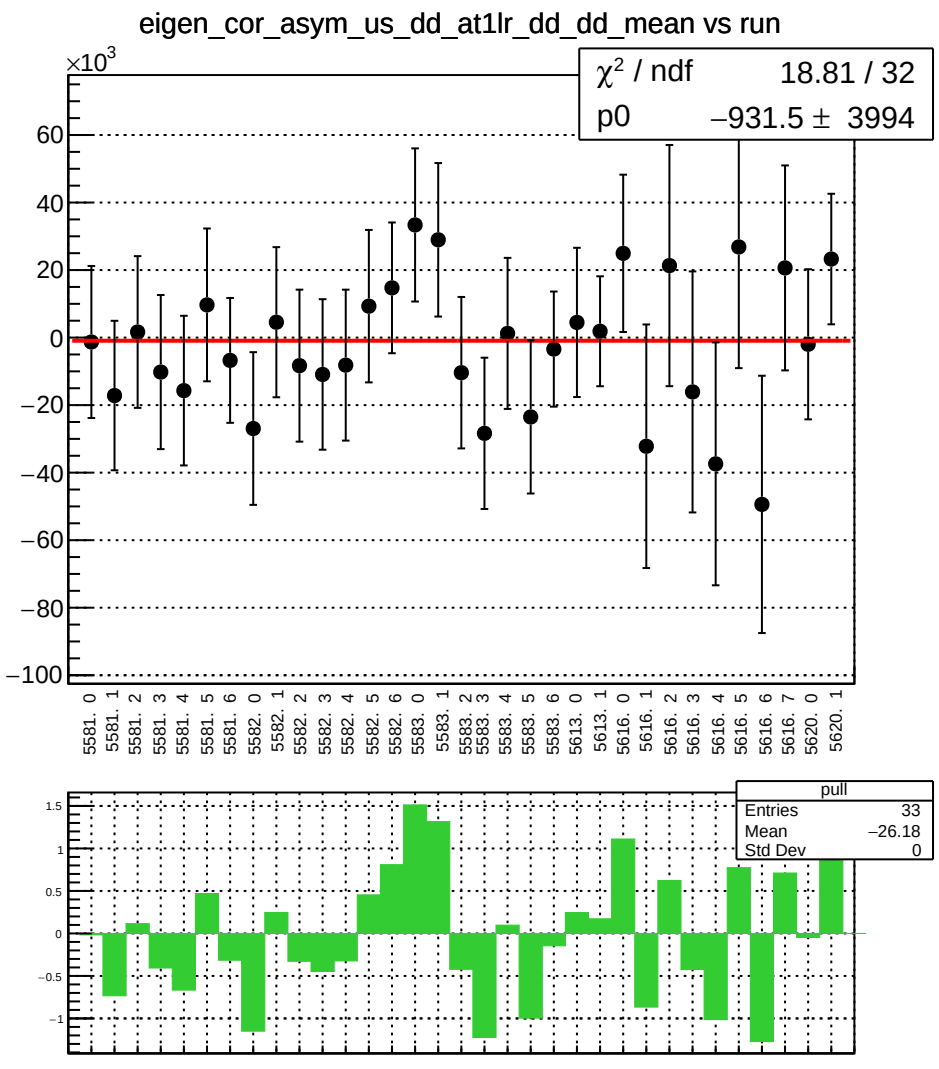

pull1D
Entries 33
Mean −0.02702
Std Dev 0.7545
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

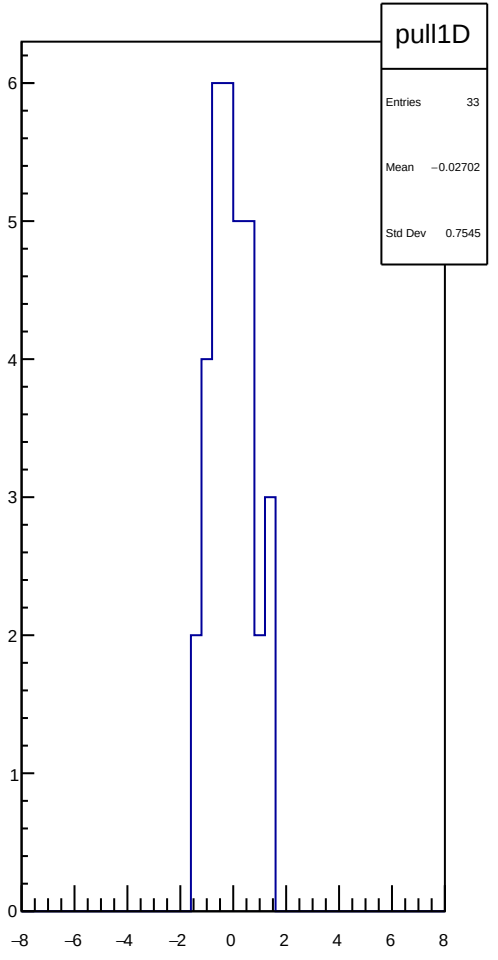

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1.764e+04 / 32
p0 2249 ± 2.824
3600
3400
3200
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

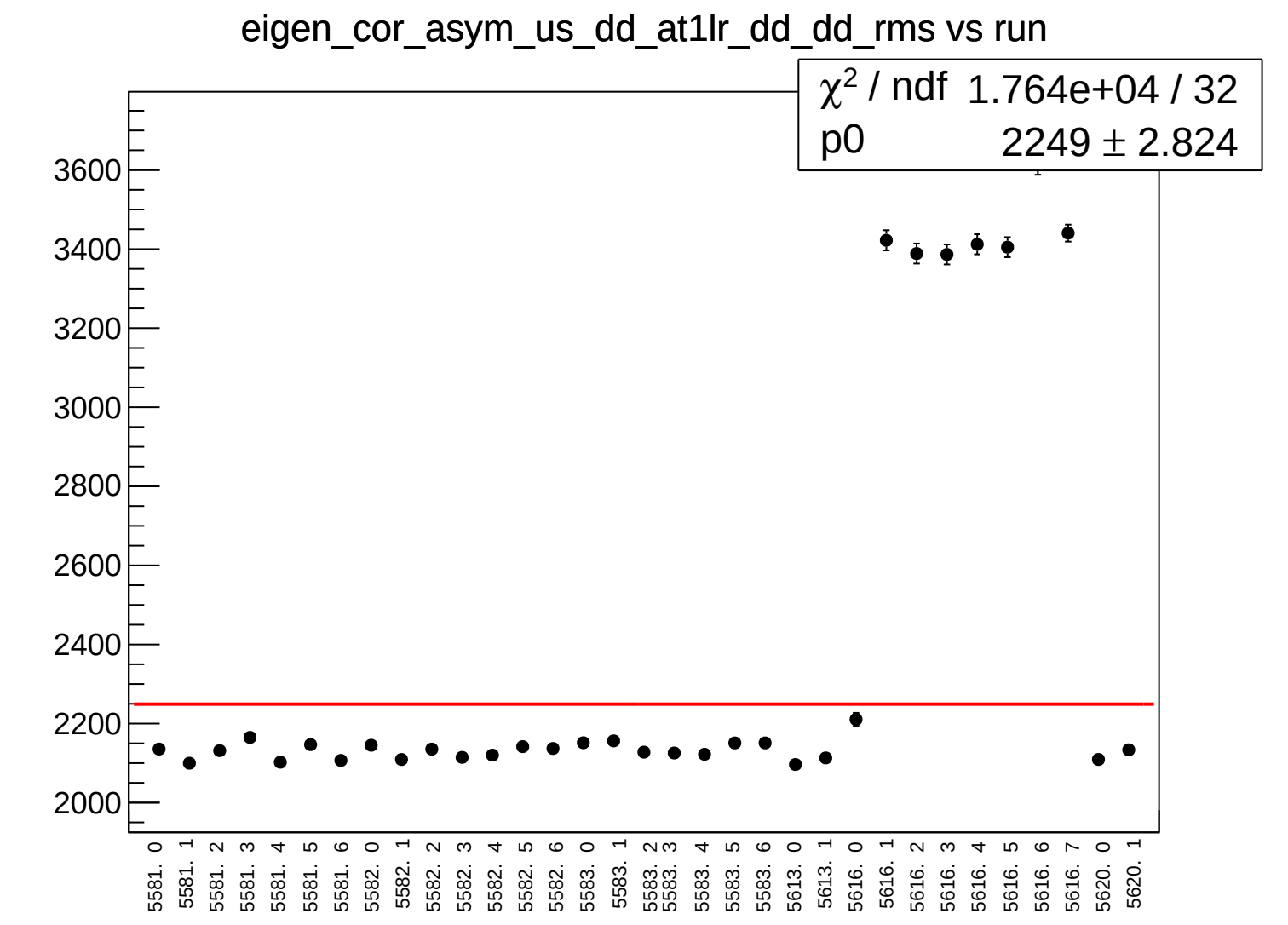

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 33.64 / 25
p0 −4173 ± 3656
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 75.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

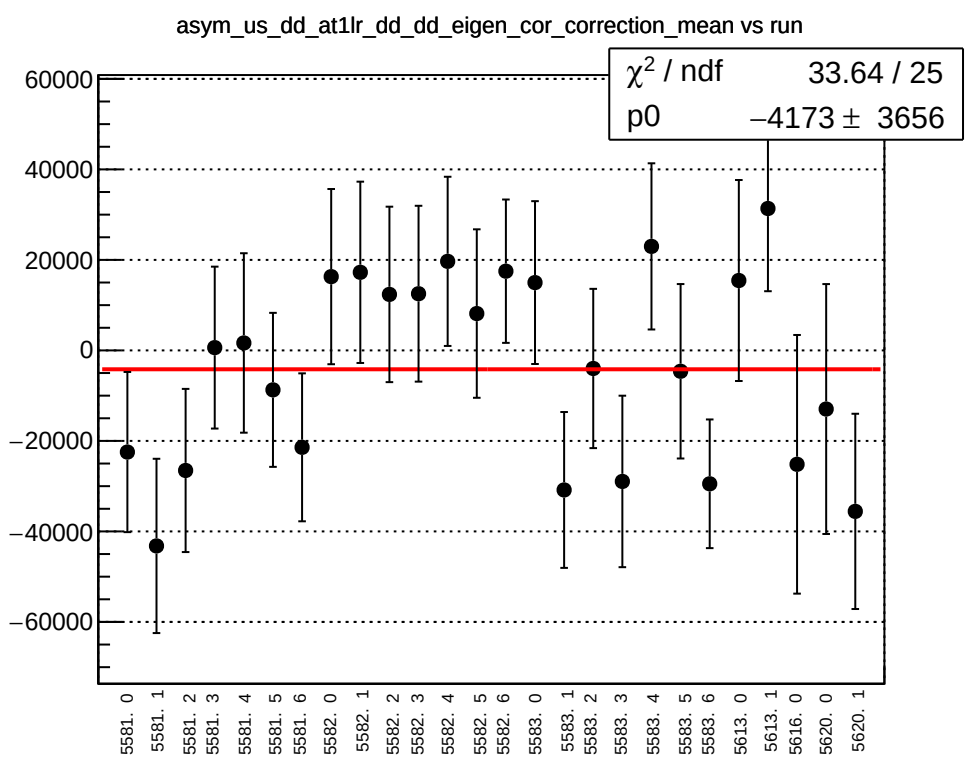

pull1D
Entries 26
Mean 0.0115
Std Dev 1.137
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

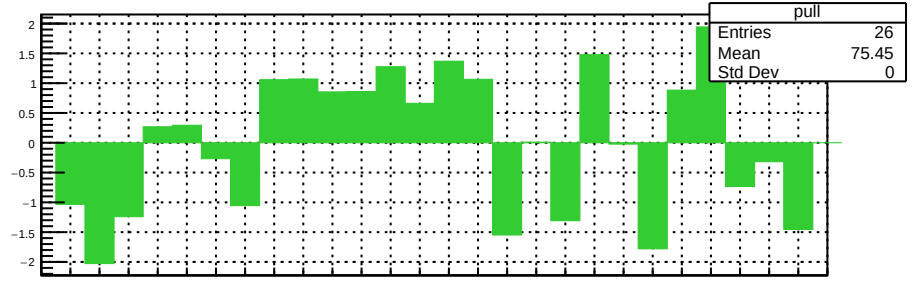

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 8273 / 25
p0 1846 ± 2.585
2800
2600
2400
2200
2000
1800
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

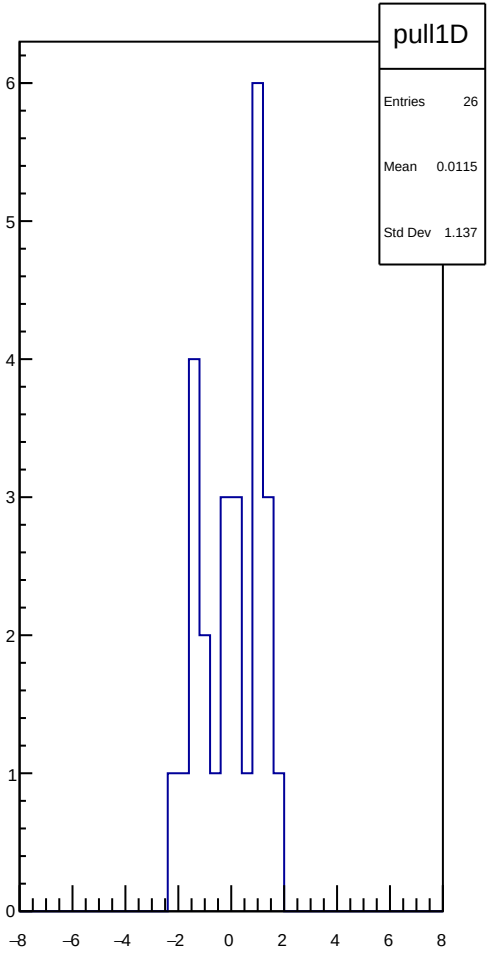

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 18.81 / 32
p0 −931.5 ± 3994
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −26.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1

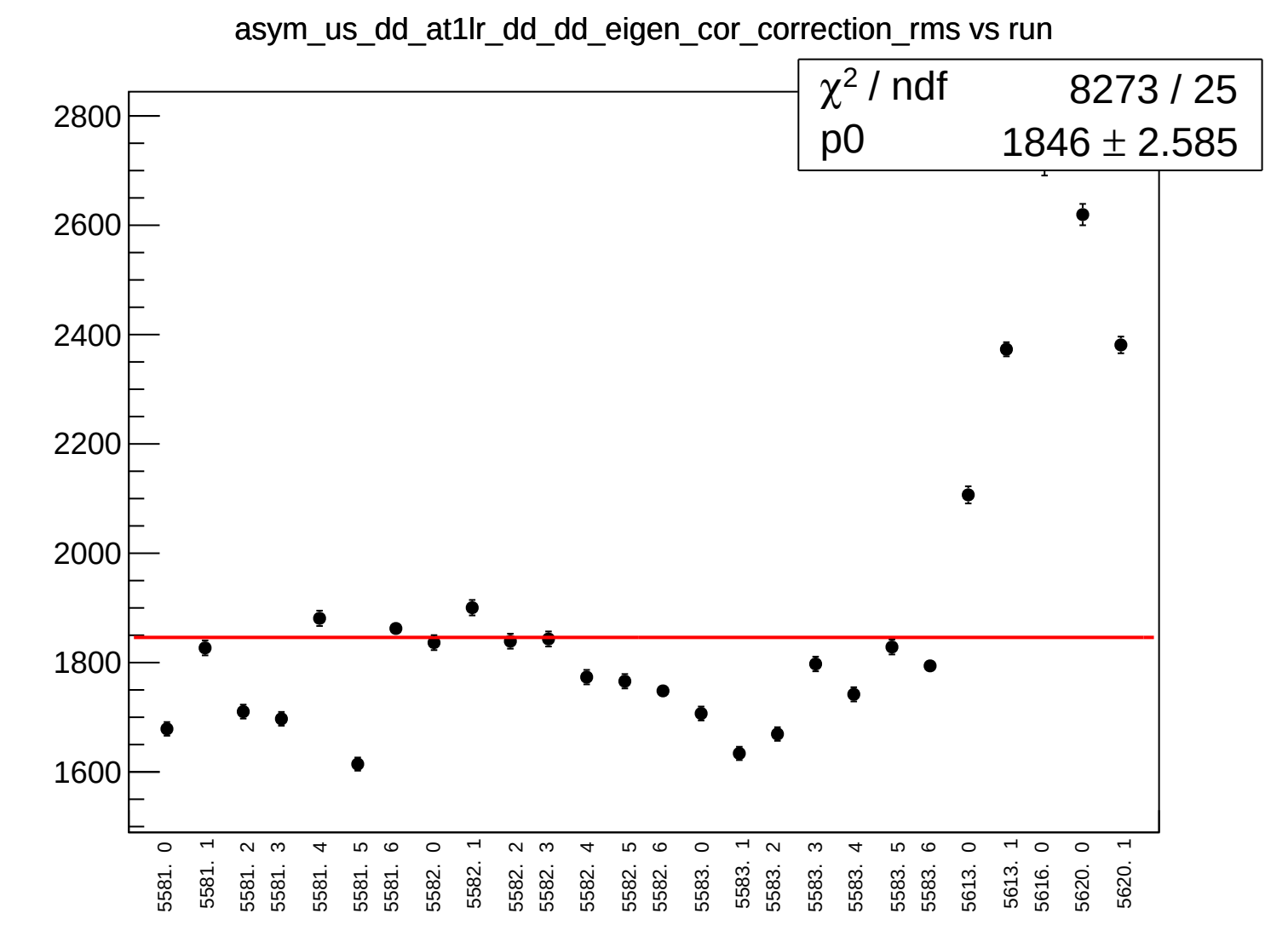

pull1D
Entries 33
Mean −0.02702
Std Dev 0.7545
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

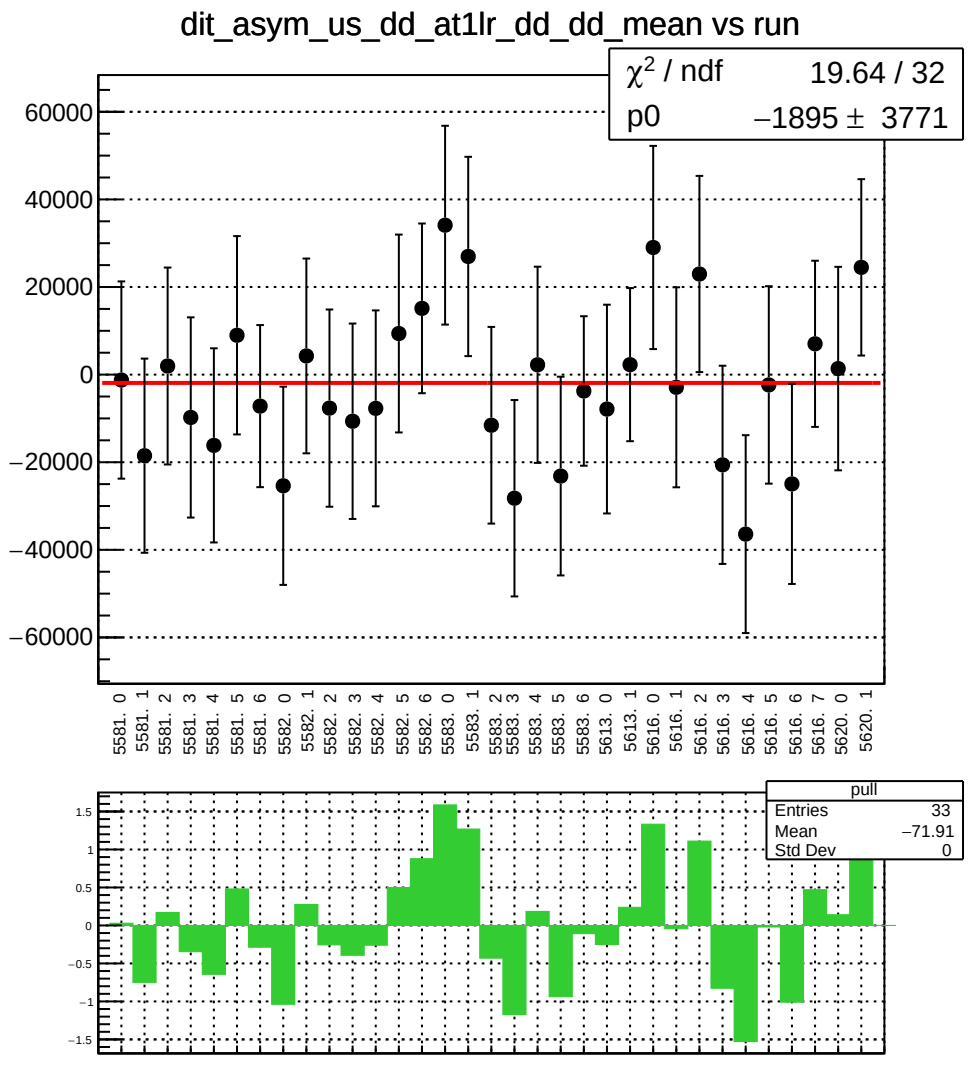

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1.764e+04 / 32
p0 2249 ± 2.824
3600
3400
3200
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

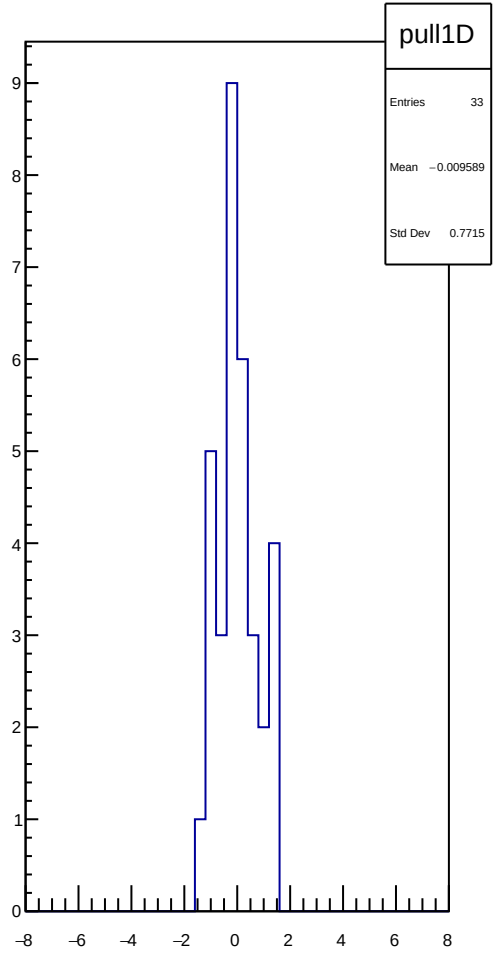

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 33.64 / 25
p0 −4173 ± 3656
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

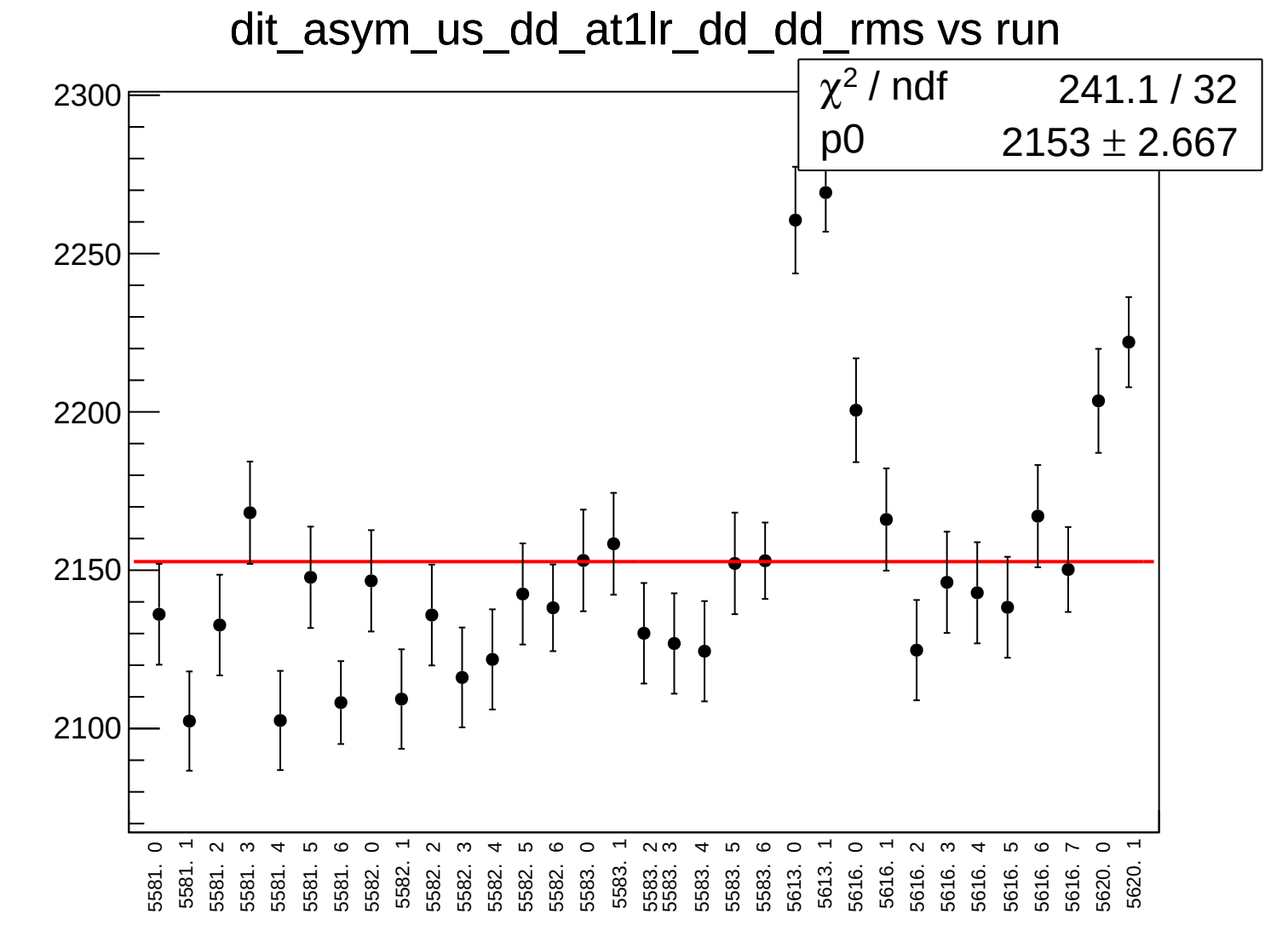

pull
Entries 26
Mean 75.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

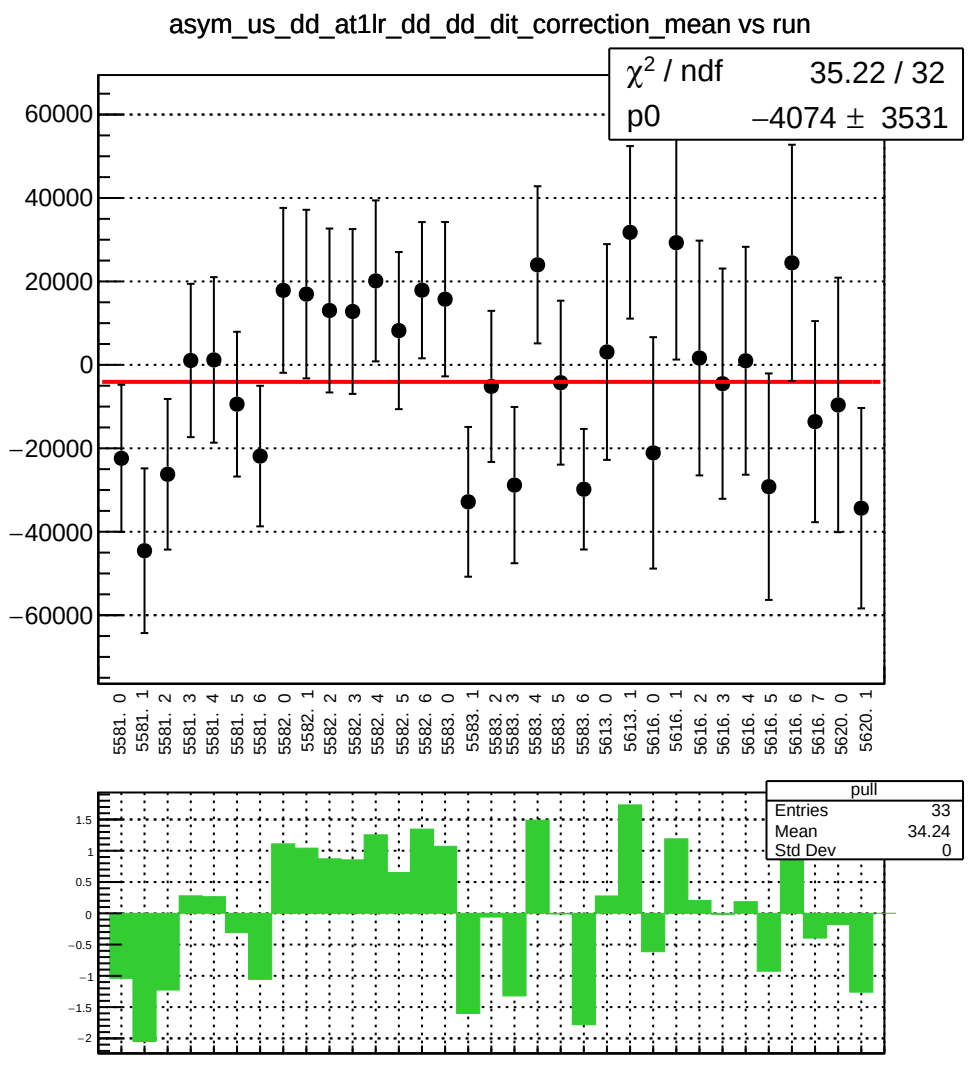

pull1D
Entries 26
Mean 0.0115
Std Dev 1.137
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

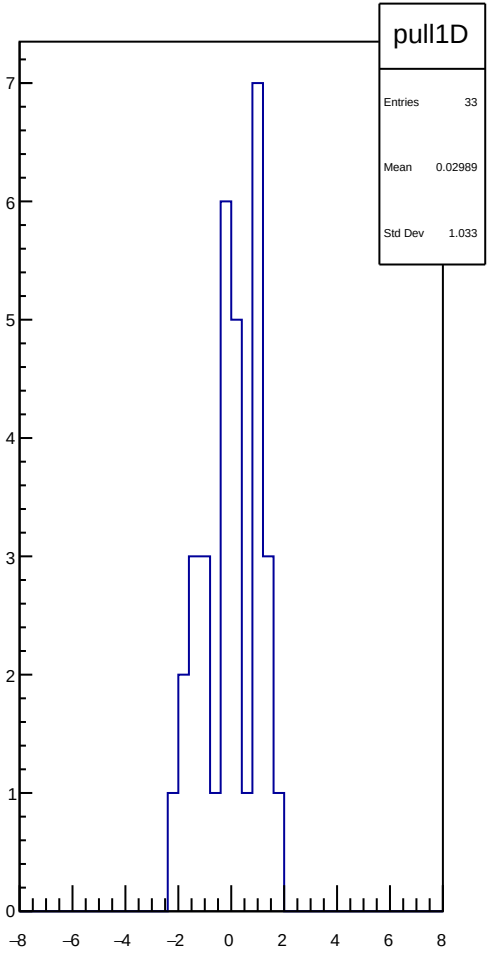

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 8273 / 25
p0 1846 ± 2.585
2800
2600
2400
2200
2000
1800
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

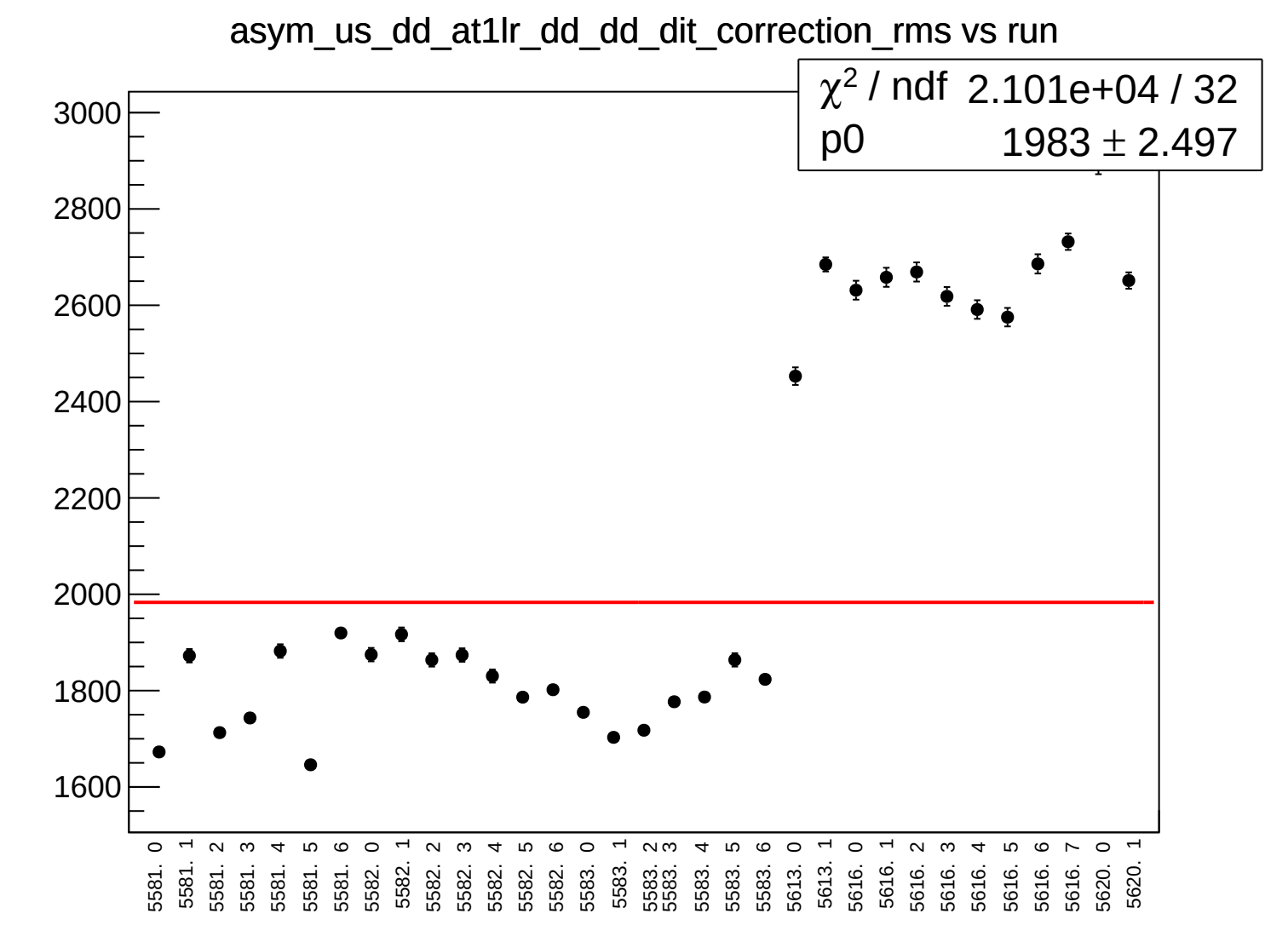

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 19.64 / 32
p0 −1895 ± 3771
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −71.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

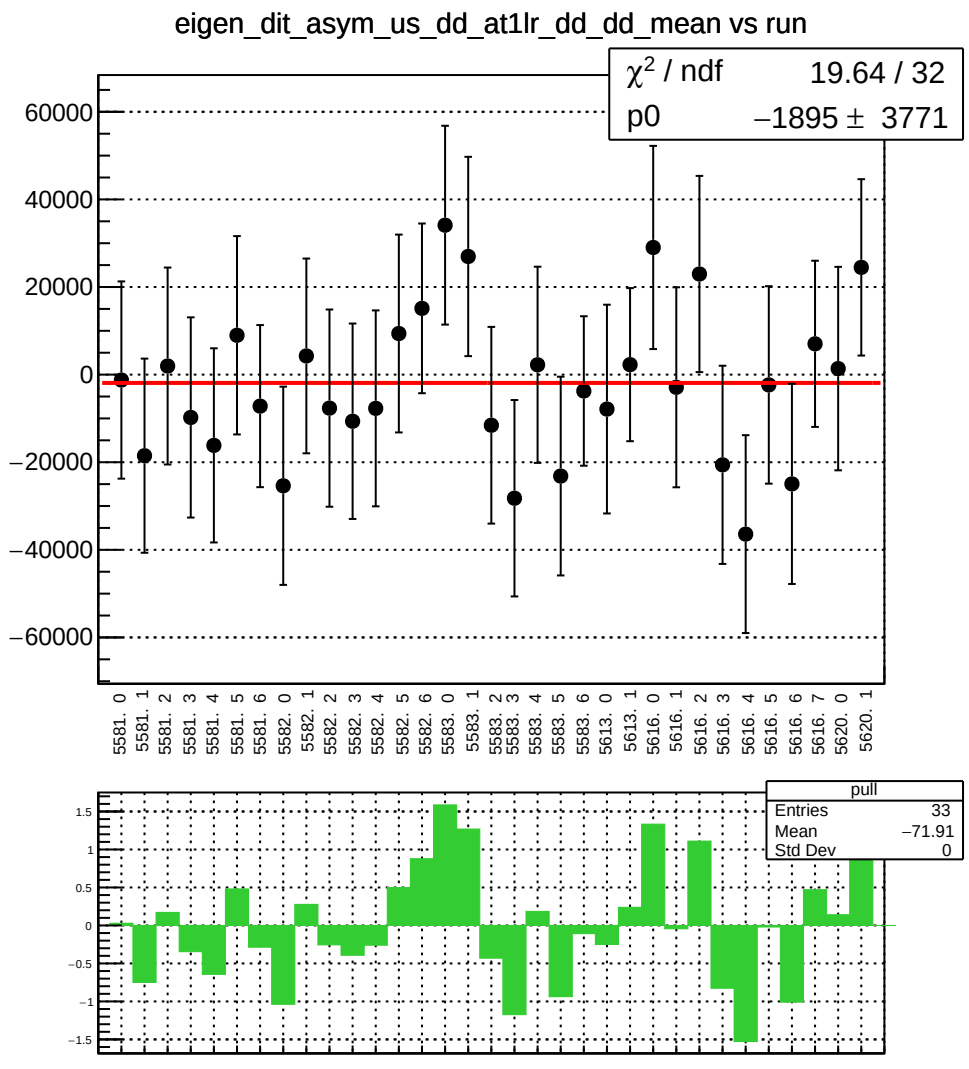

pull1D
Entries 33
Mean −0.009589
Std Dev 0.7715
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

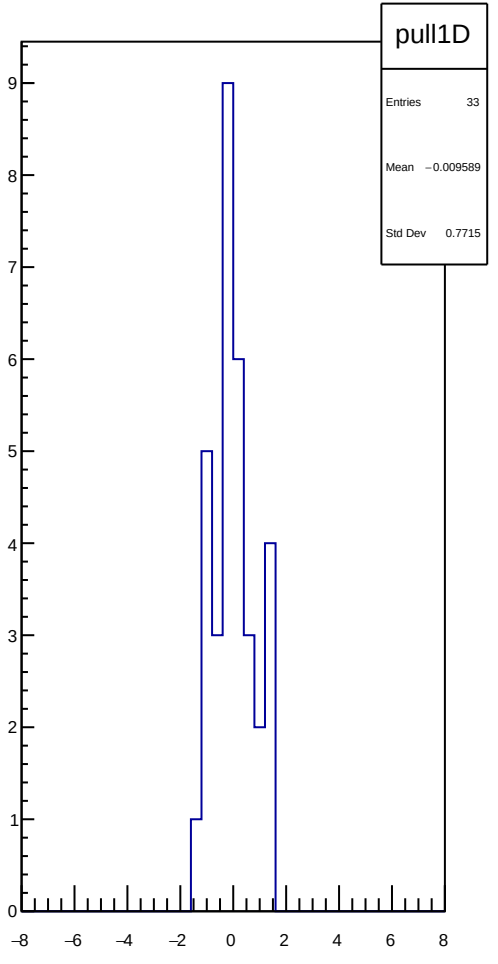

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 241.1 / 32
p0 2153 ± 2.667
2300
2250
2200
2150
2100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

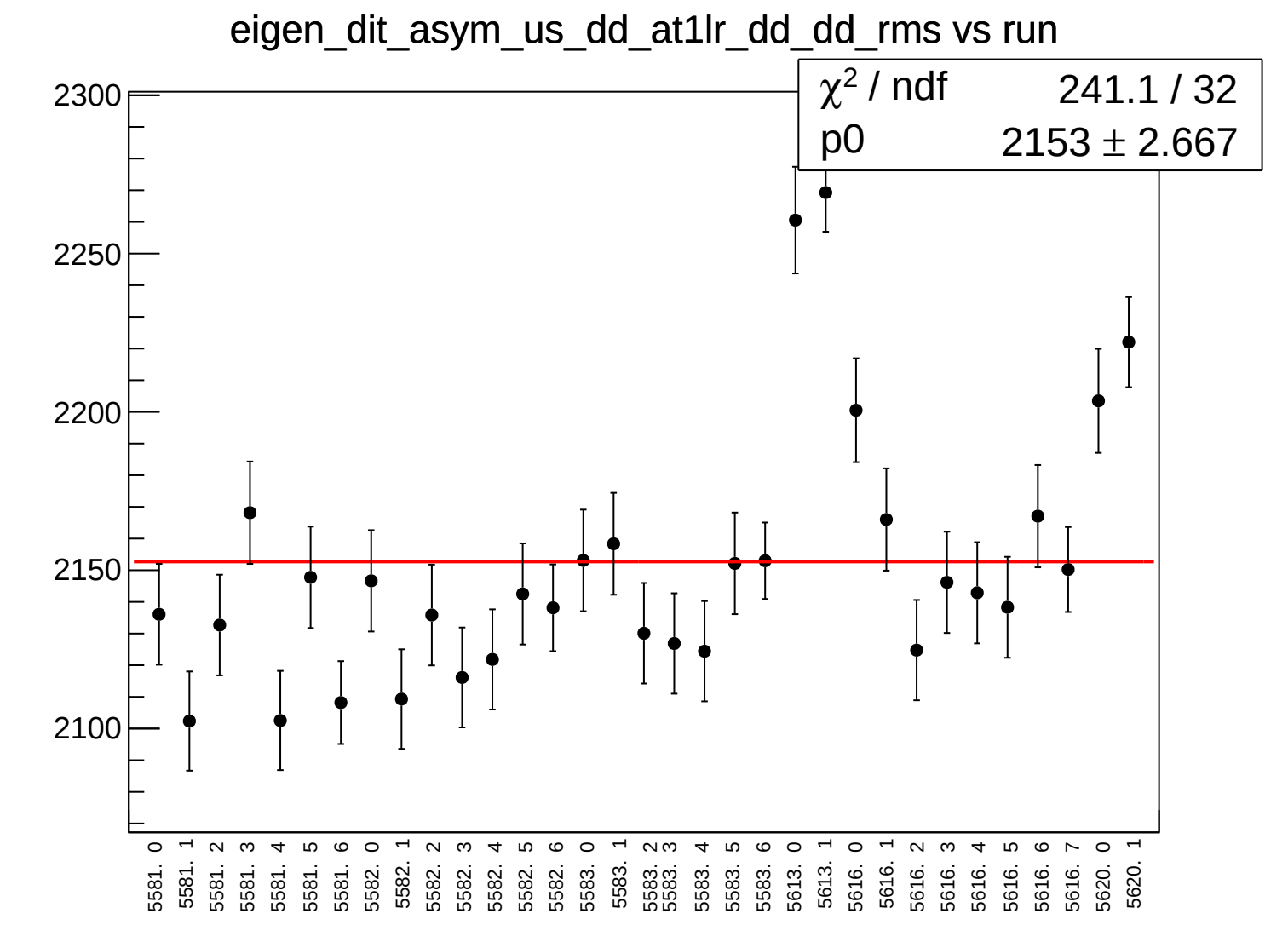

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 35.22 / 32
p0 −4074 ± 3531
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

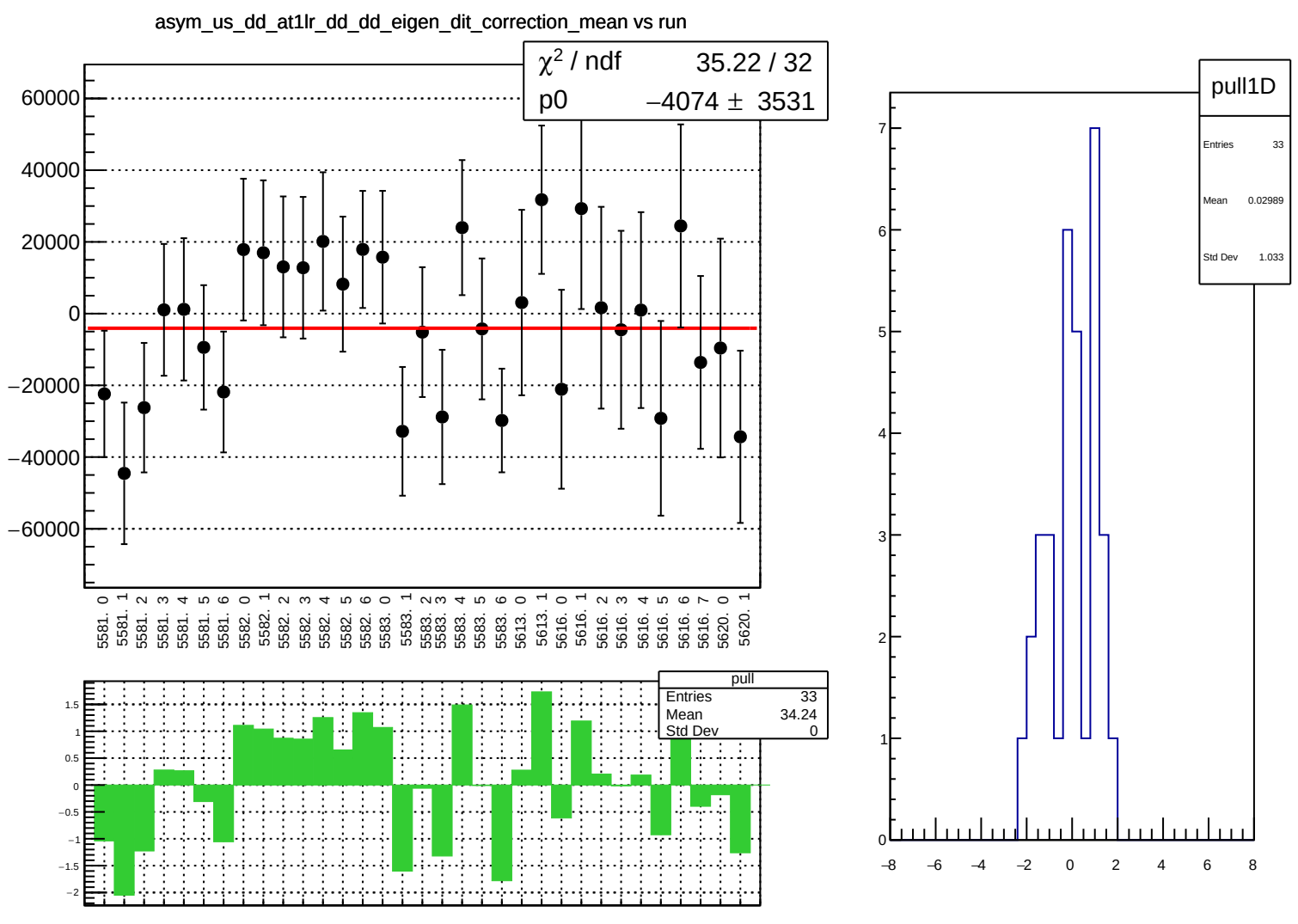

pull1D
Entries 33
Mean 0.02989
Std Dev 1.033
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

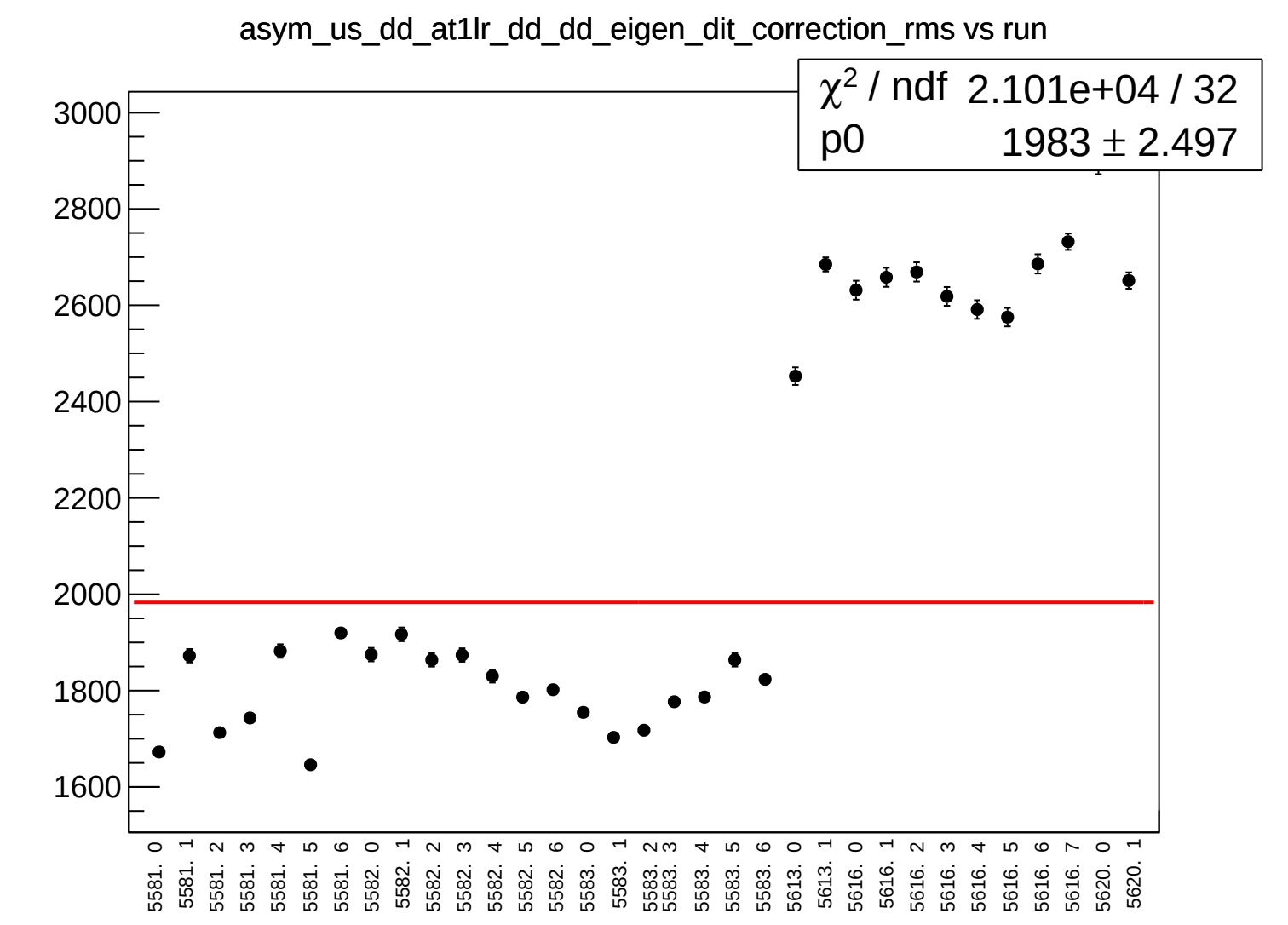

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.101e+04 / 32
p0 1983 ± 2.497
3000
2800
2600
2400
2200
2000
1800
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

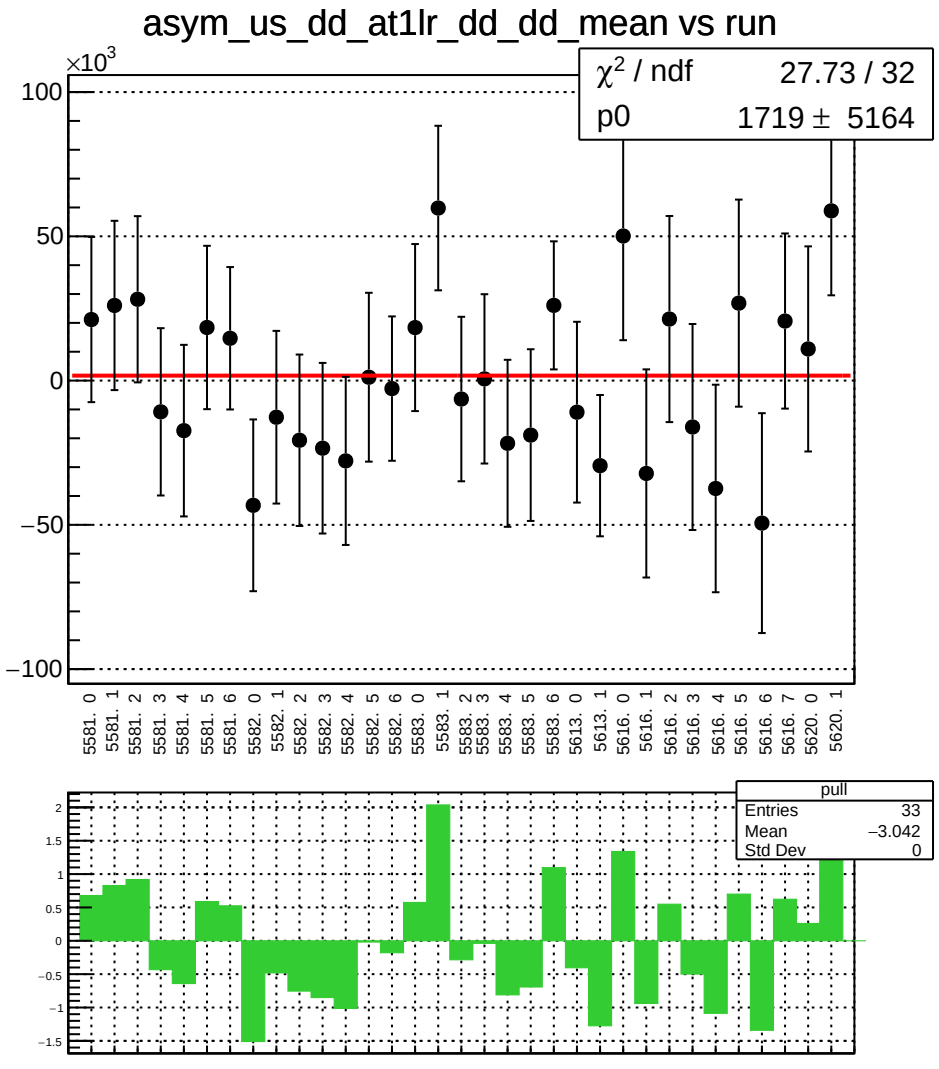

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 19.64 / 32
p0 −1895 ± 3771
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −71.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

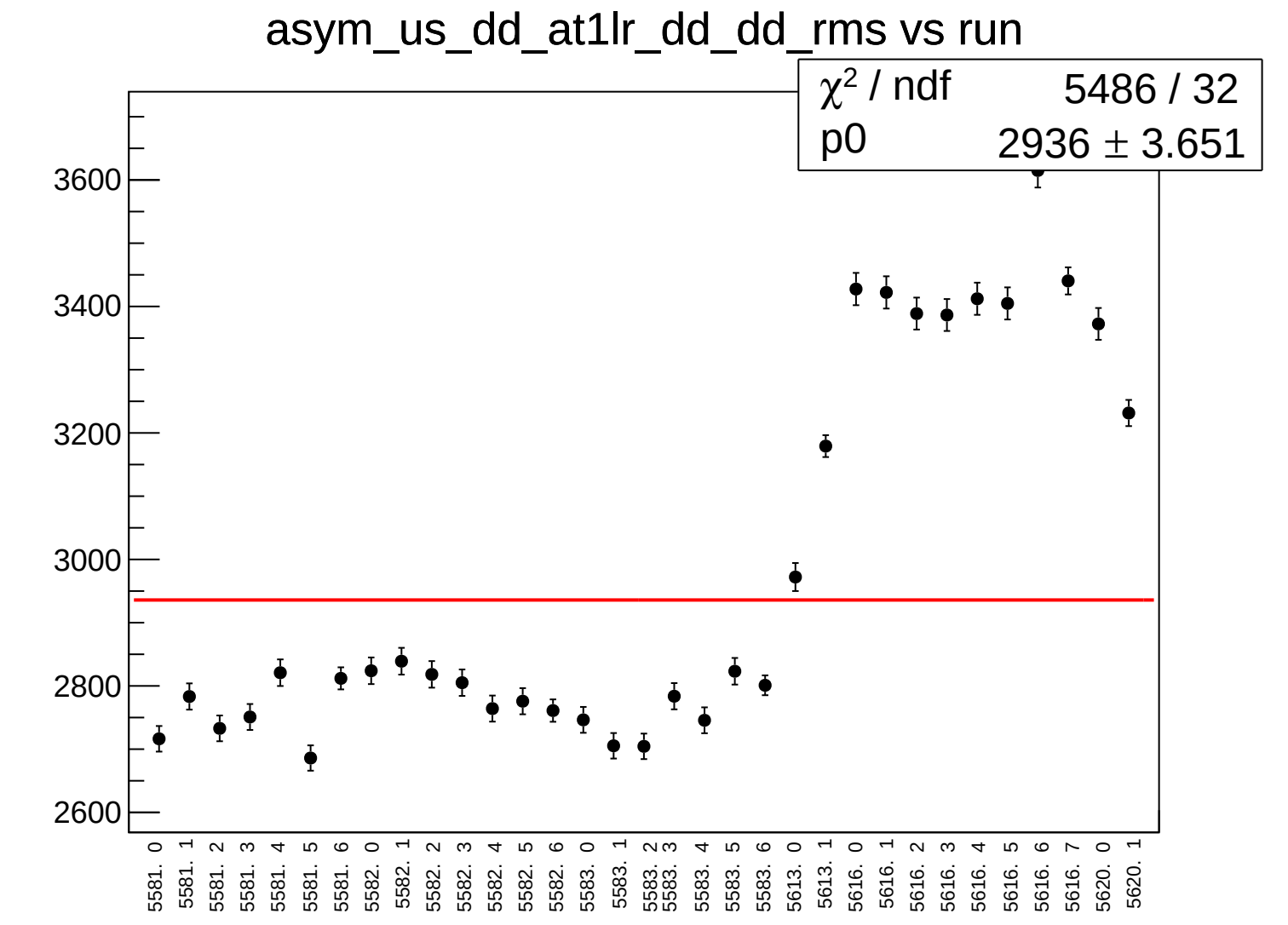

pull1D
Entries 33
Mean −0.009589
Std Dev 0.7715
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

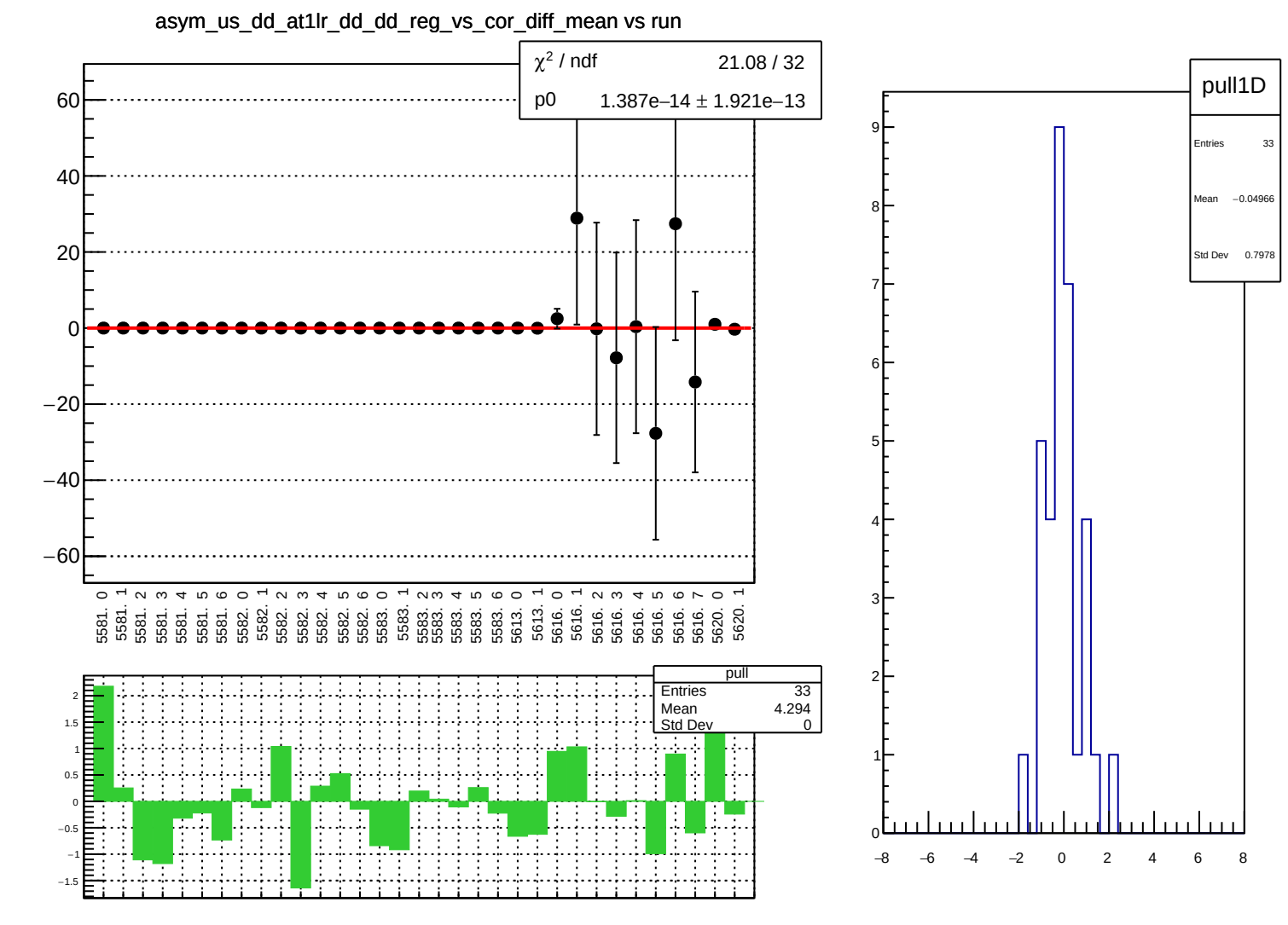

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 241.1 / 32
p0 2153 ± 2.667
2300
2250
2200
2150
2100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

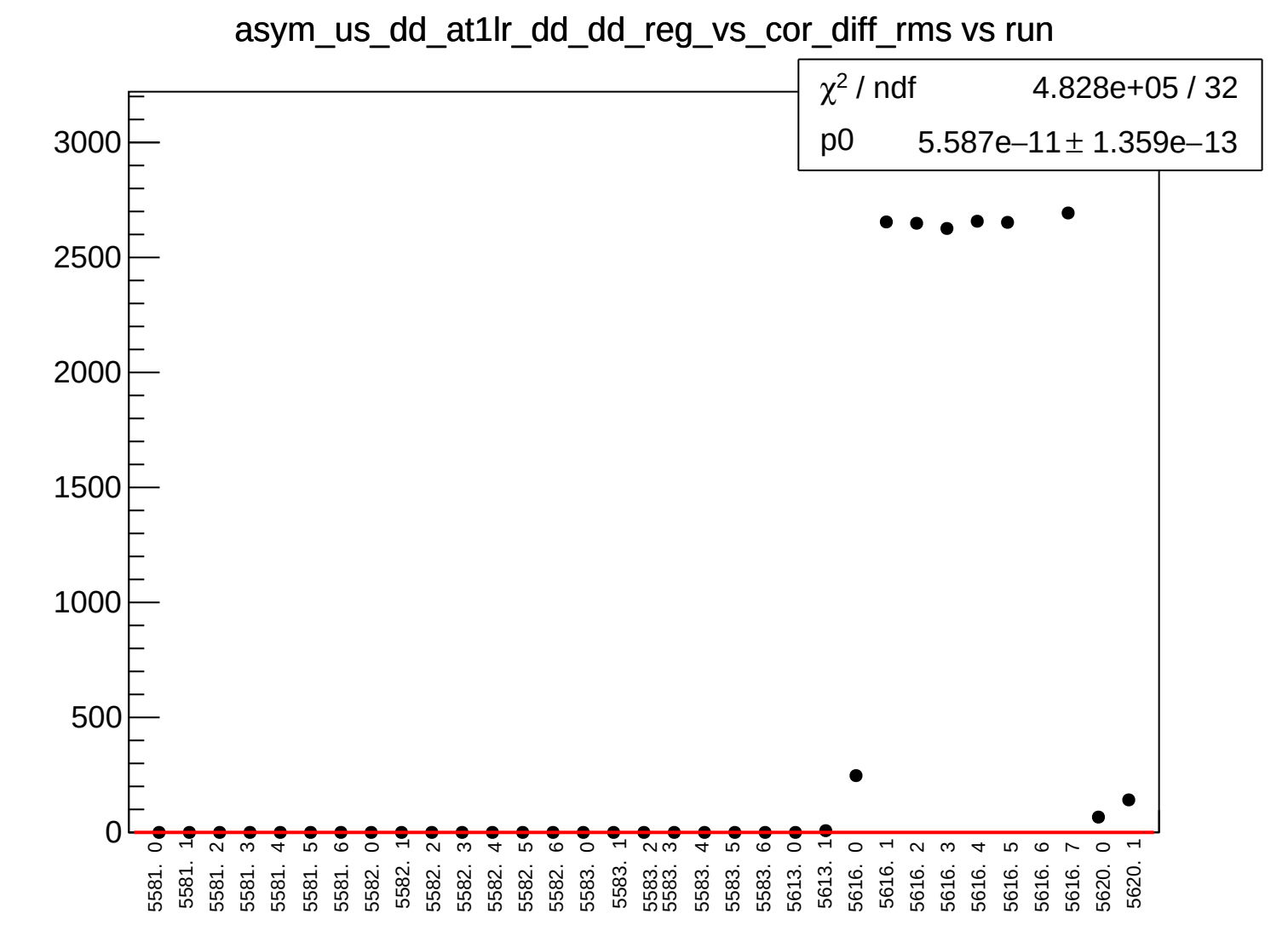

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 35.22 / 32
p0 −4074 ± 3531
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.02989
Std Dev 1.033
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

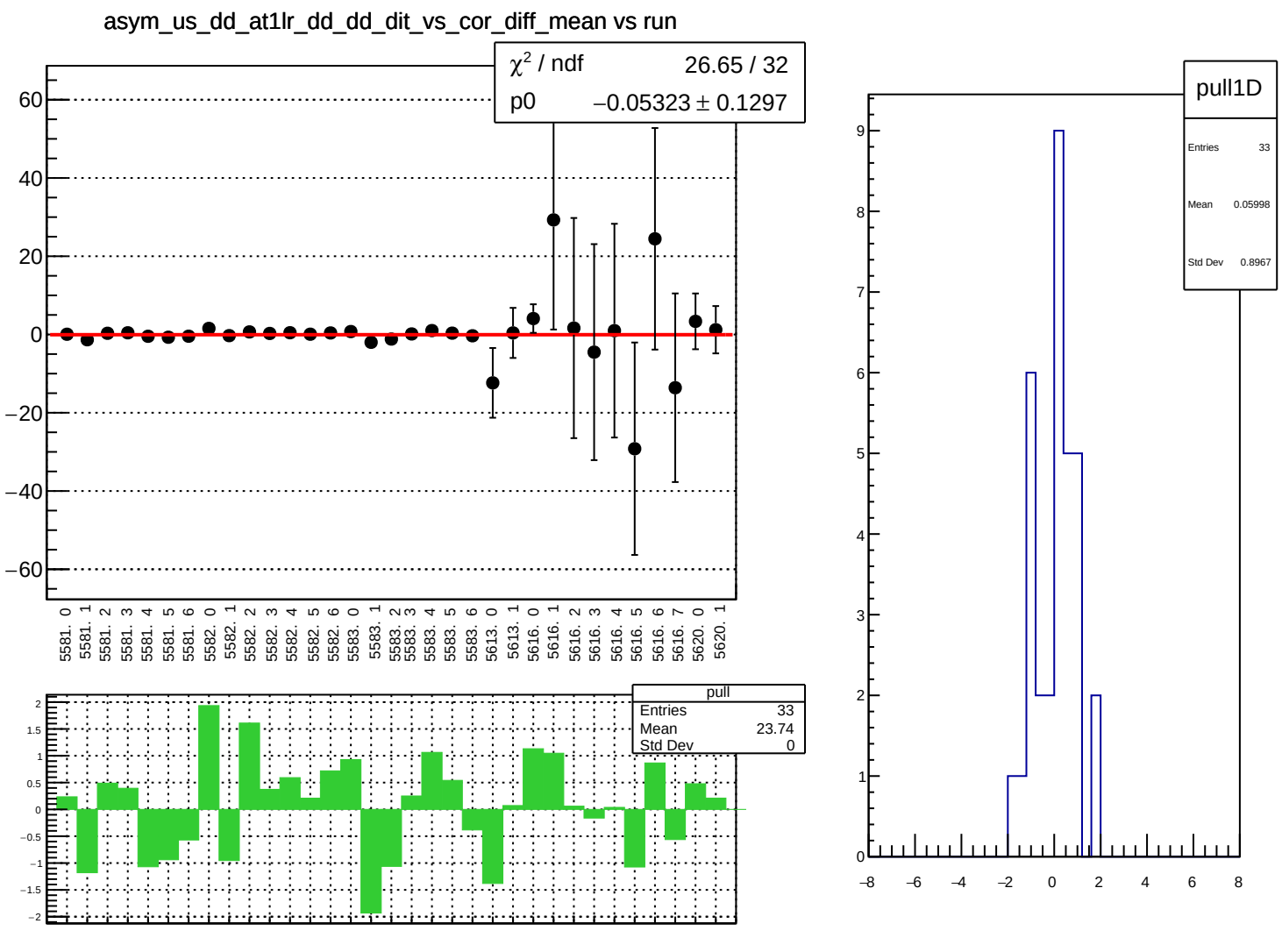

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.101e+04 / 32
p0 1983 ± 2.497
3000
2800
2600
2400
2200
2000
1800
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

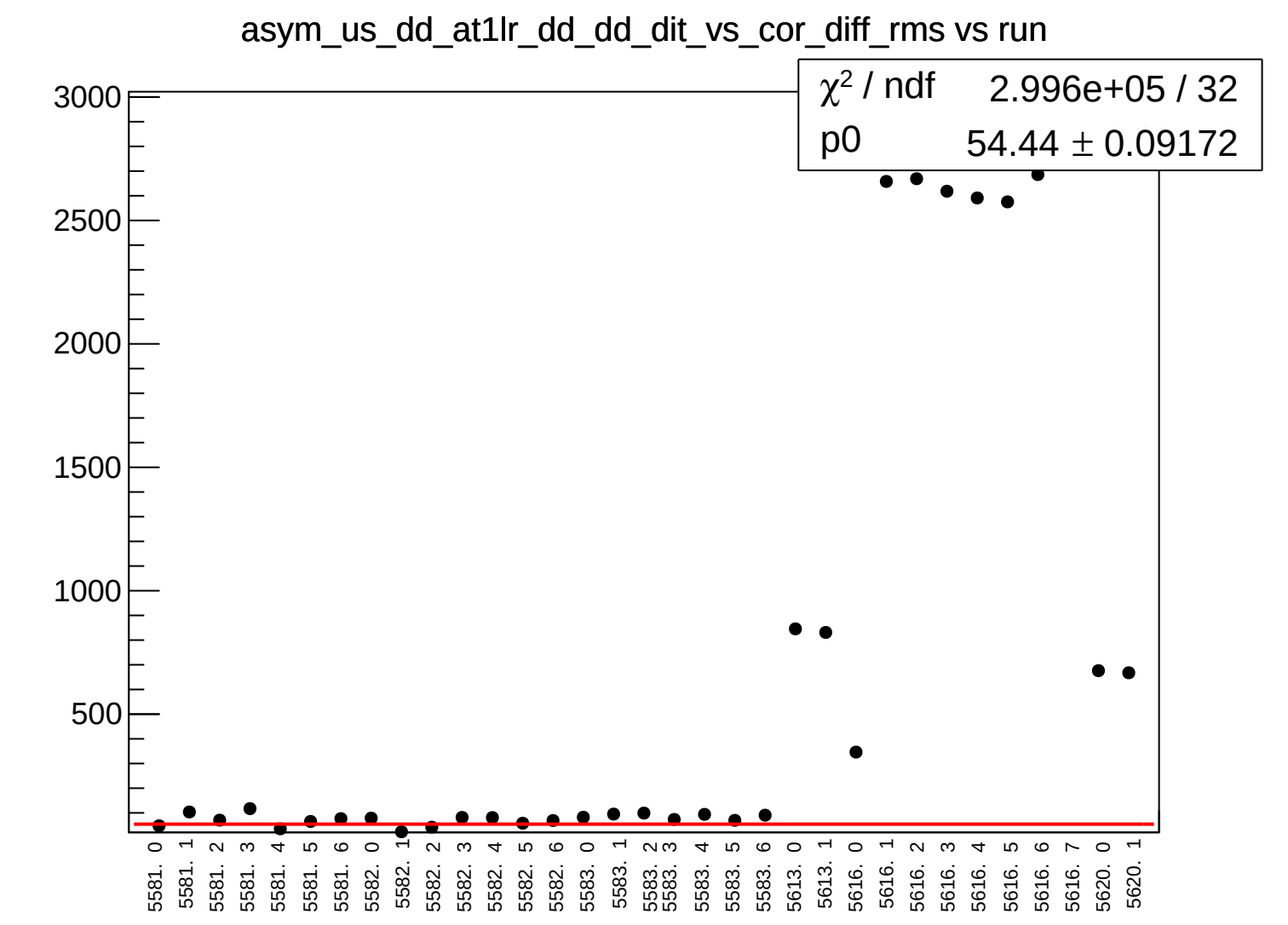

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 27.73 / 32
p0 1719 ± 5164
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −3.042
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.01767
Std Dev 0.9166
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

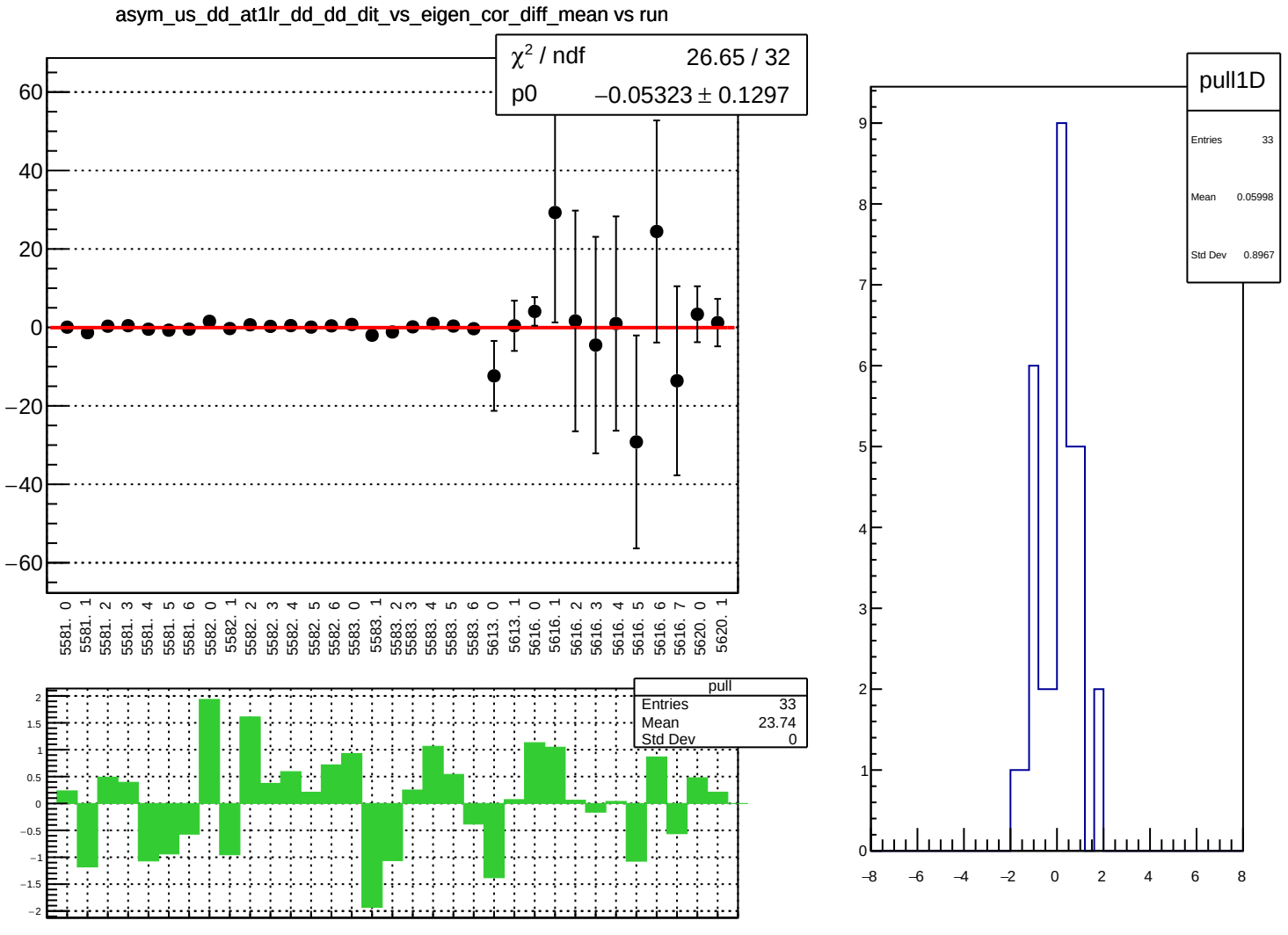

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 5486 / 32
p0 2936 ± 3.651
3600
3400
3200
3000
2800
2600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

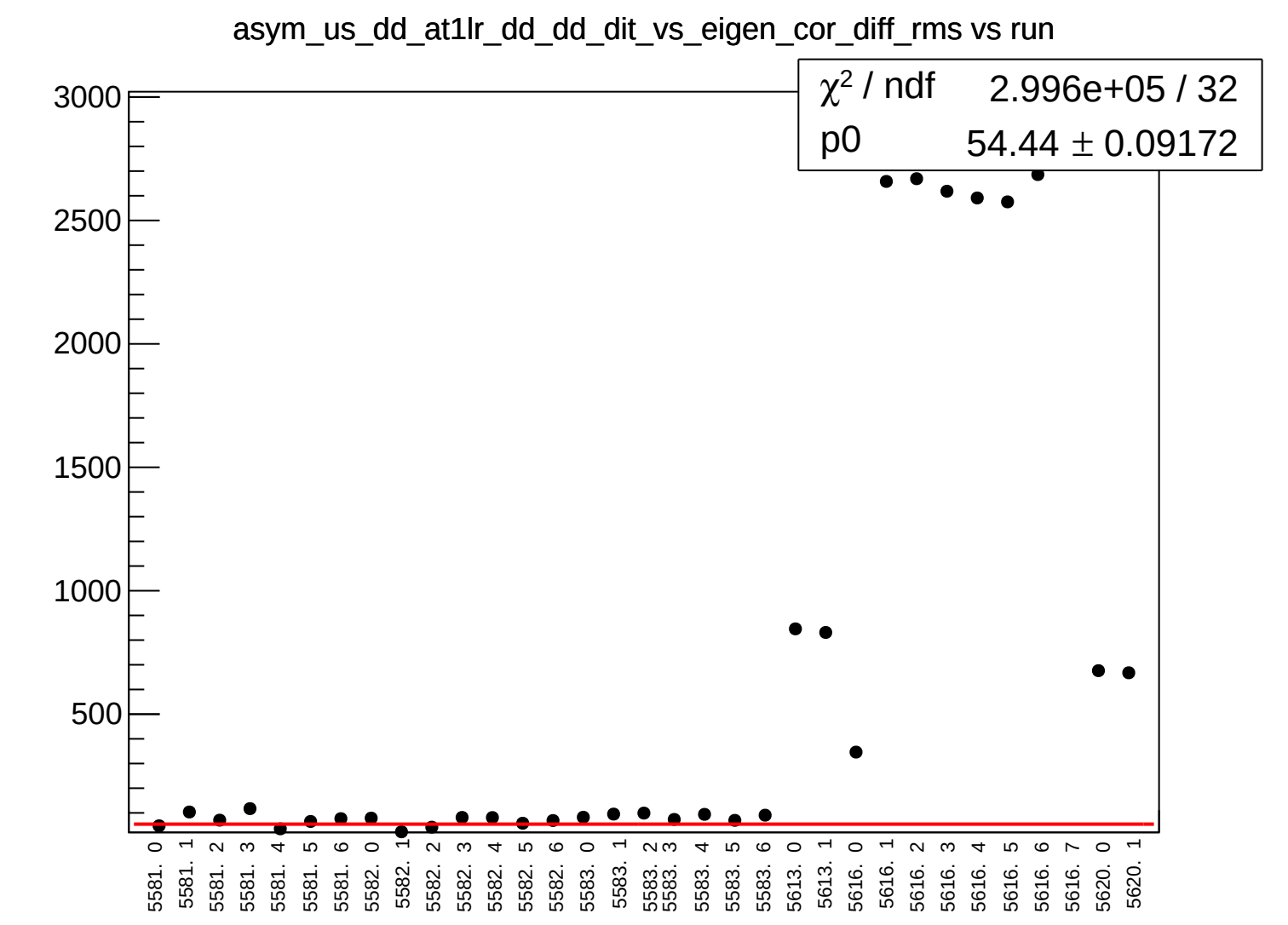

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 21.08 / 32
p0 1.387e−14 ± 1.921e−13
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 4.294
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.04966
Std Dev 0.7978
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

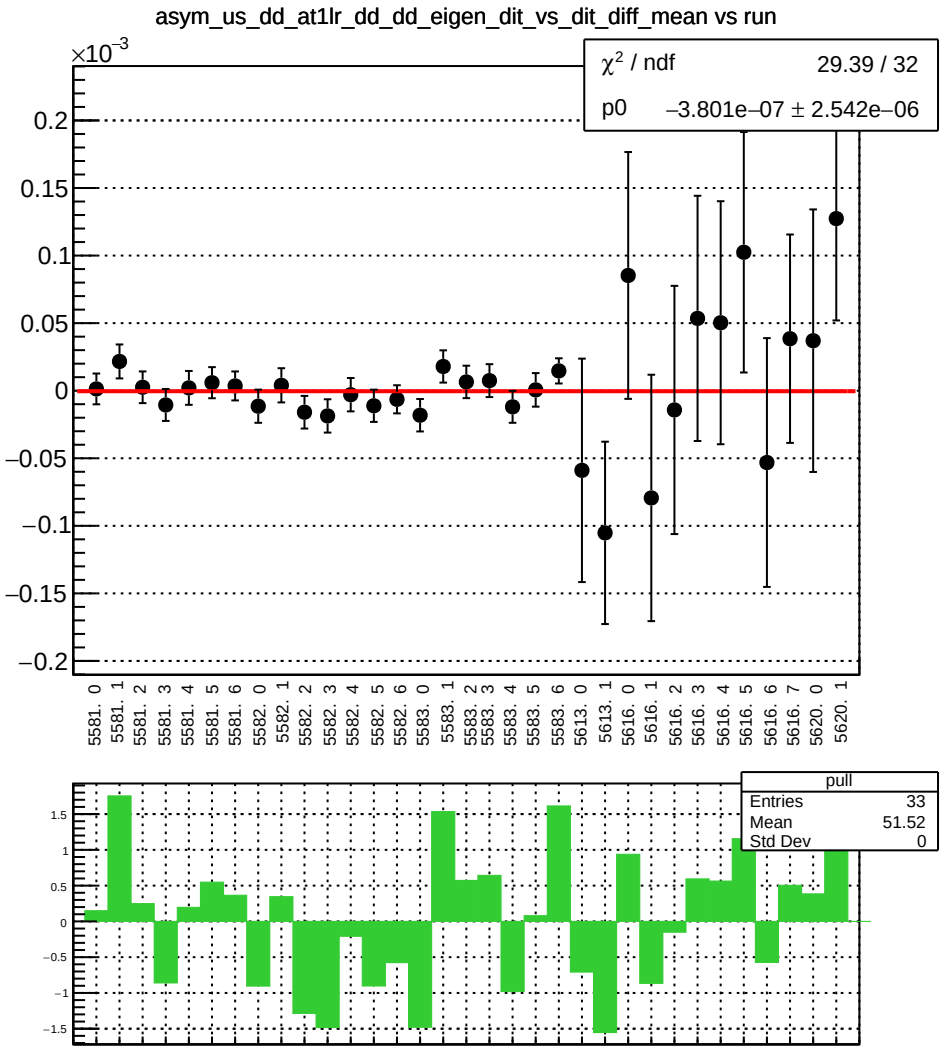

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.828e+05 / 32
p0 5.587e−11 ± 1.359e−13
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

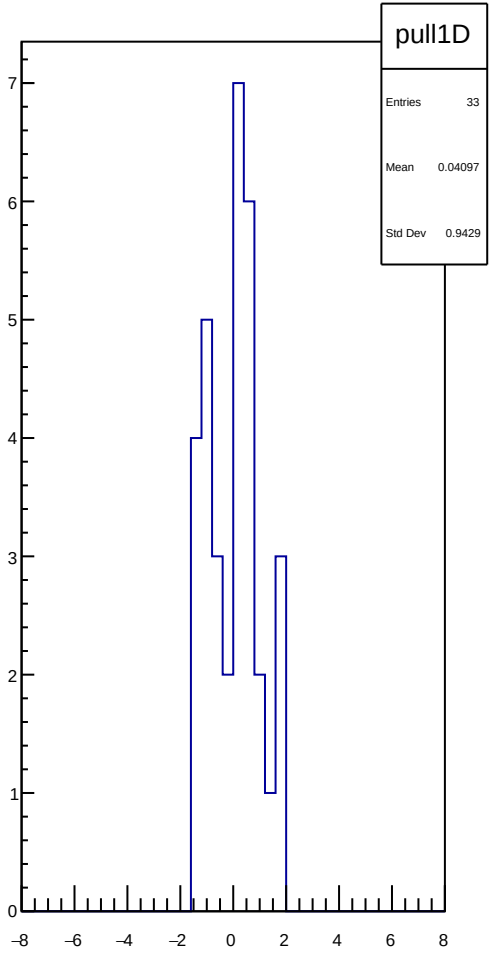

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 26.65 / 32
p0 −0.05323 ± 0.1297
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.05998
Std Dev 0.8967
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

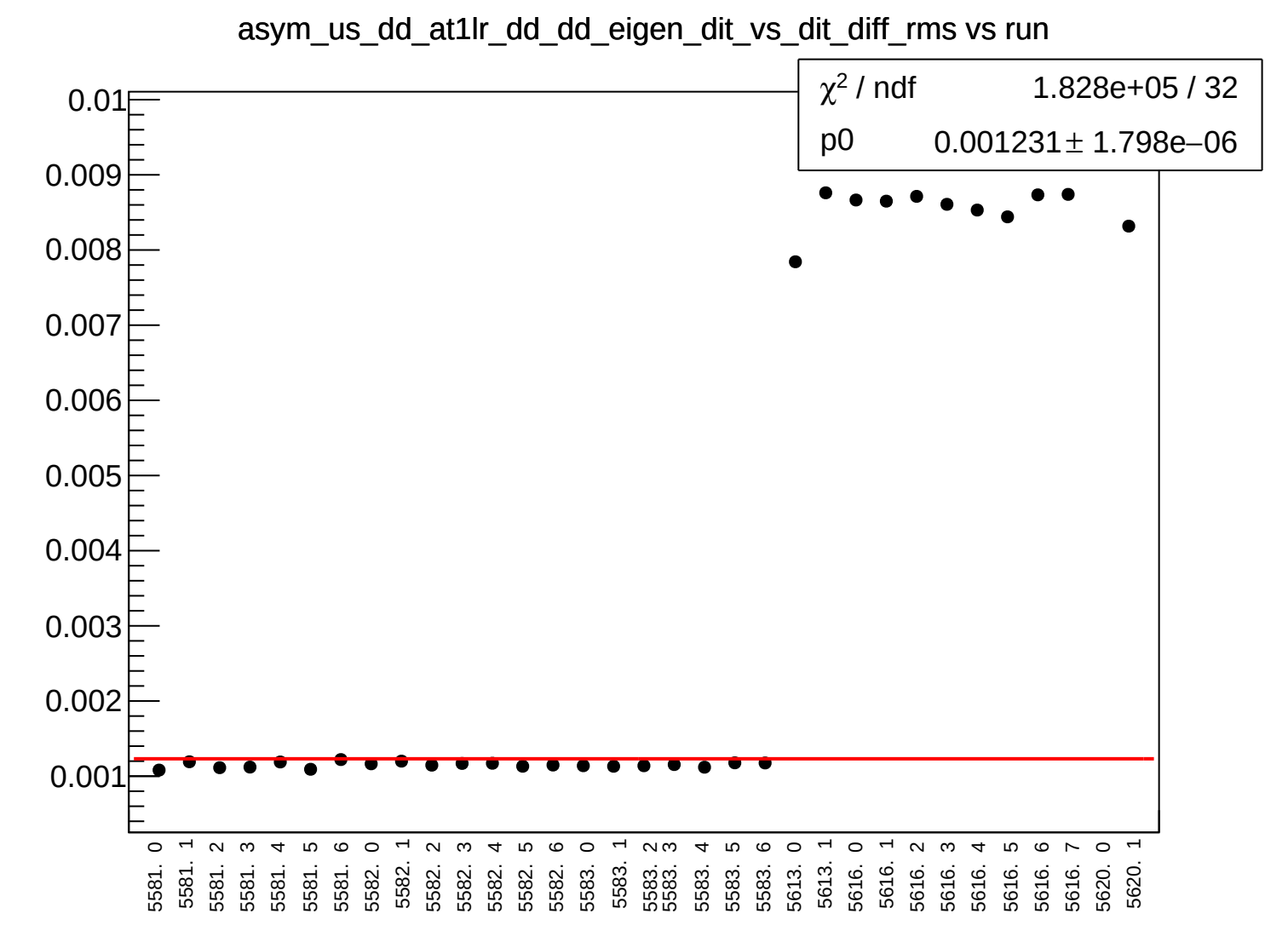

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.996e+05 / 32
p0 54.44 ± 0.09172
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

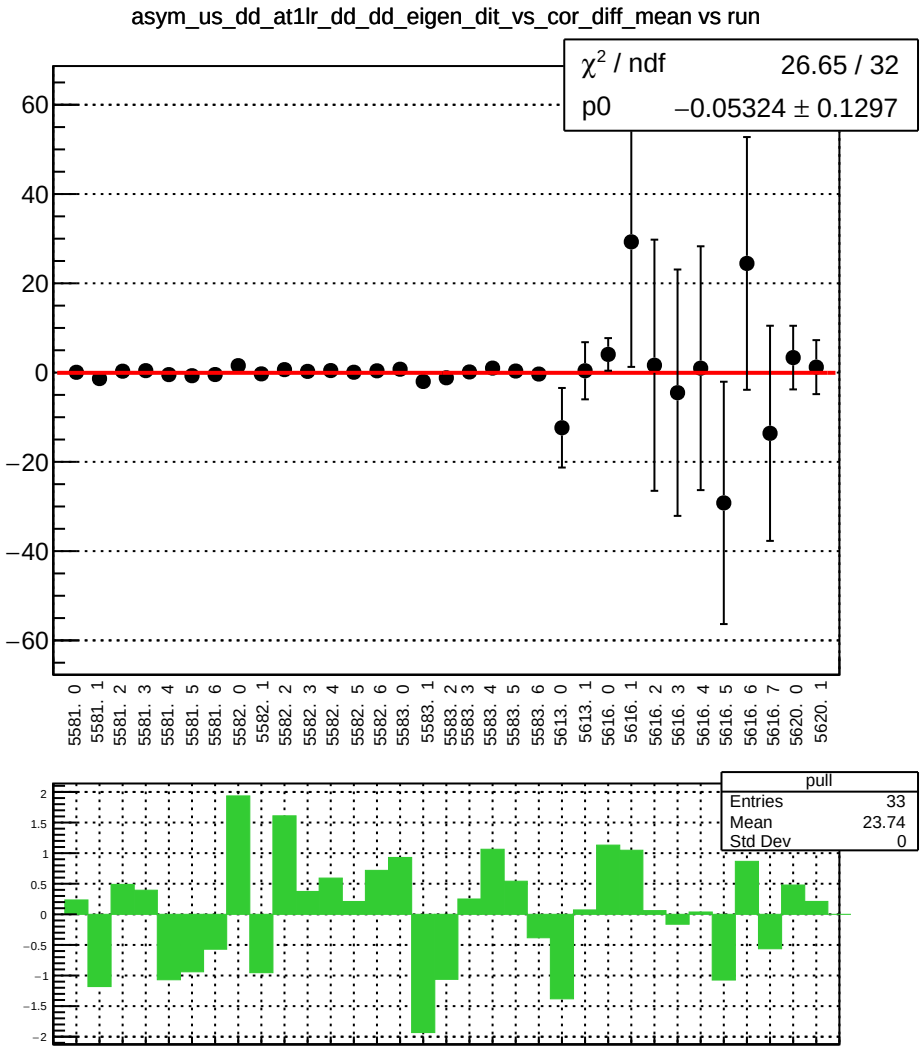

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.65 / 32
p0 −0.05323 ± 0.1297
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.05998
Std Dev 0.8967
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

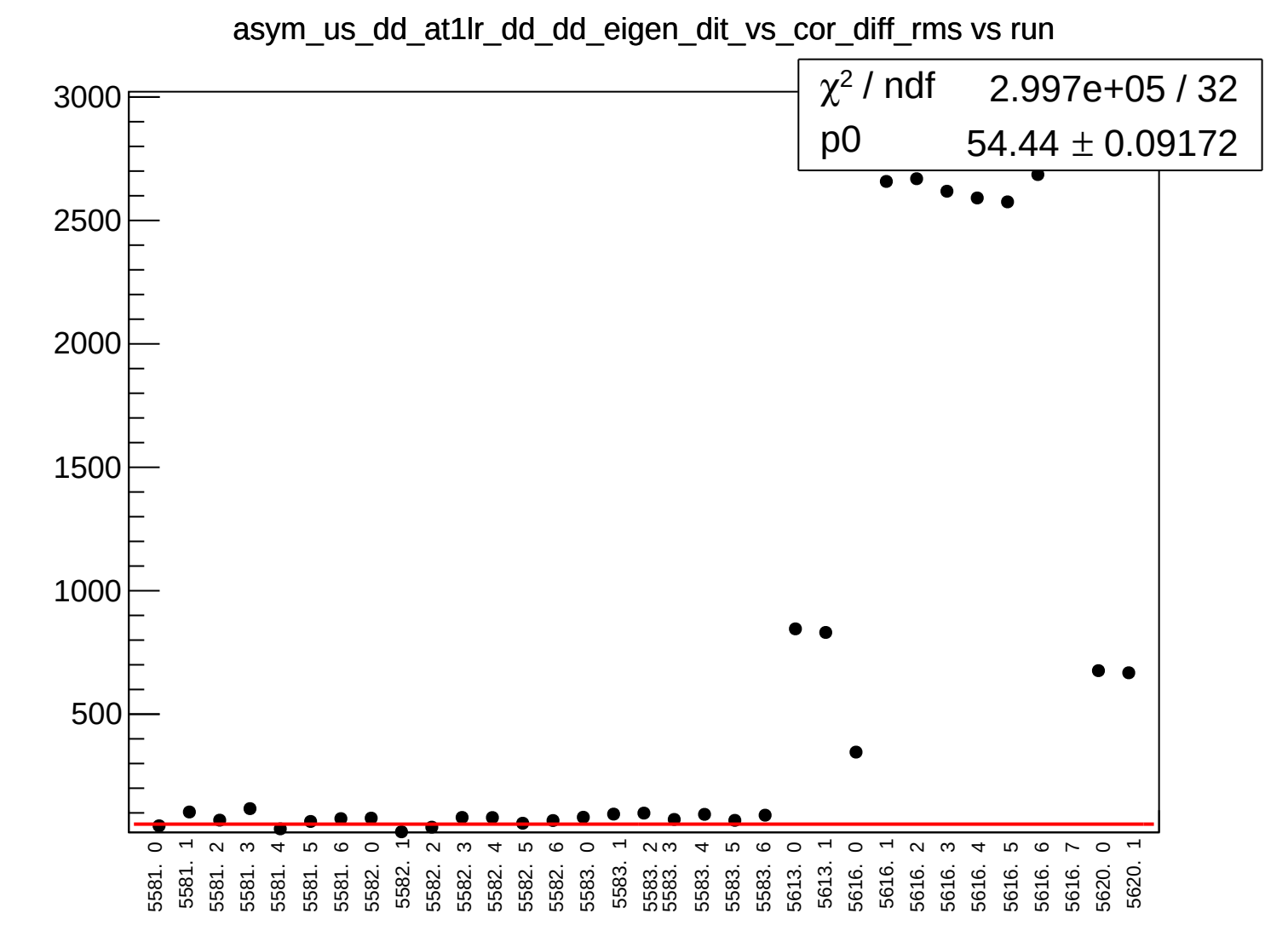

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.996e+05 / 32
p0 54.44 ± 0.09172
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

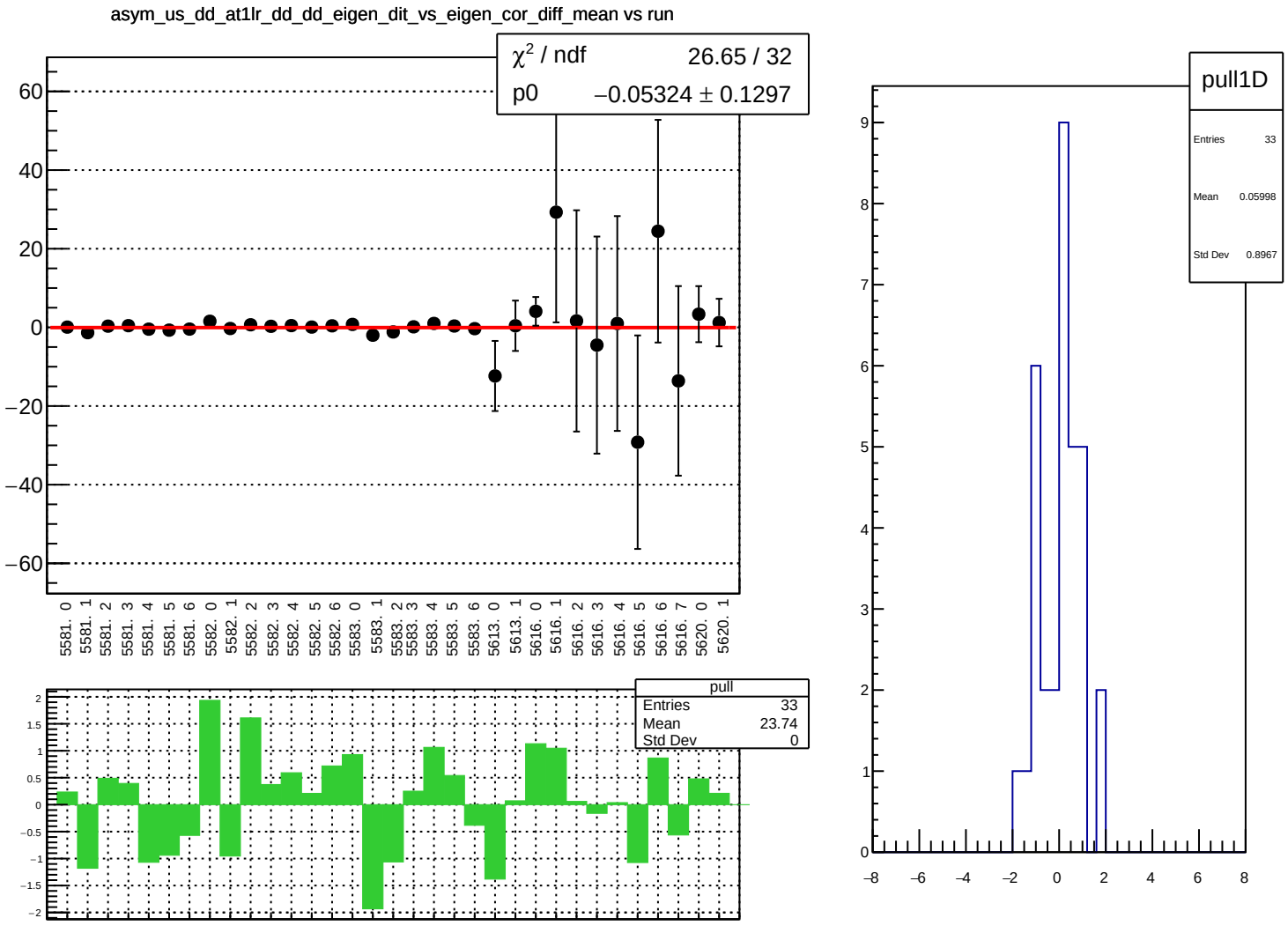

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 29.39 / 32
p0 −3.801e−07 ± 2.542e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 51.52
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

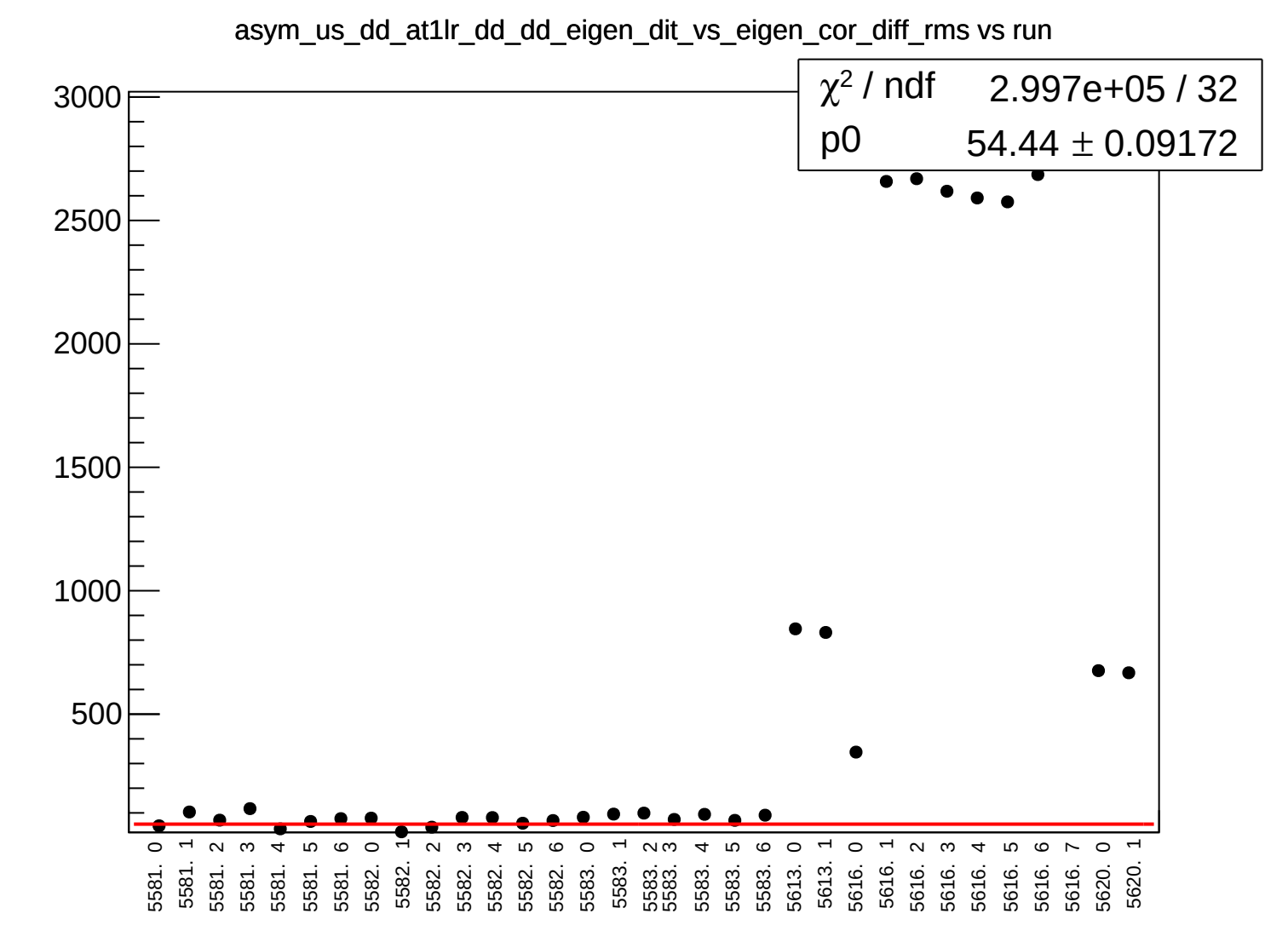

pull1D
Entries 33
Mean 0.04097
Std Dev 0.9429
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

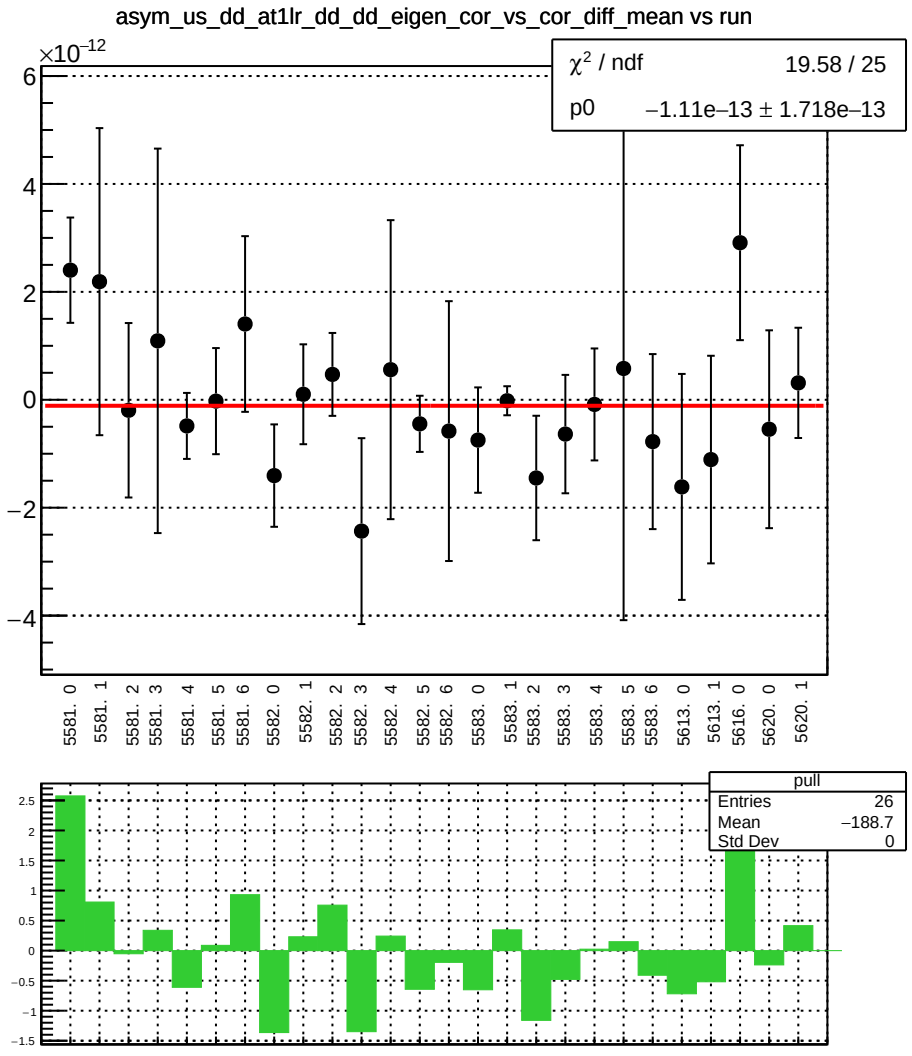

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.828e+05 / 32
p0 0.001231 ± 1.798e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

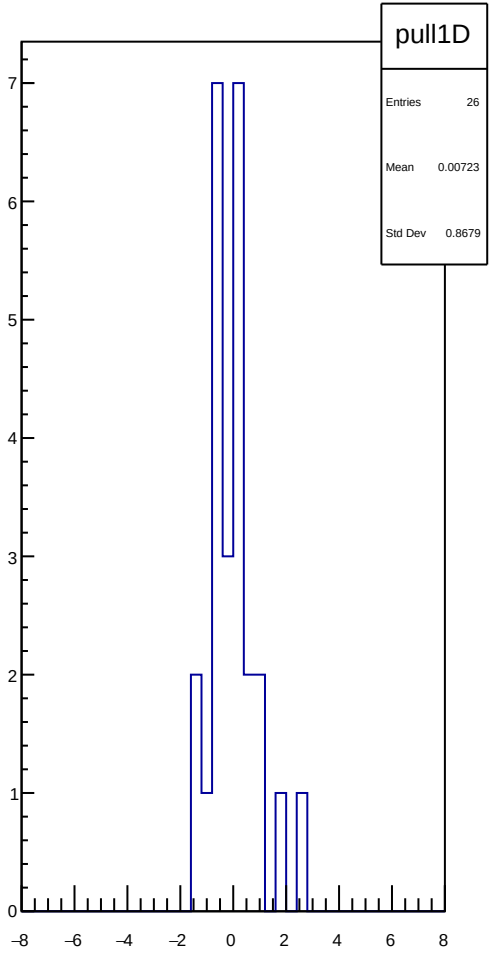

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 26.65 / 32
p0 −0.05324 ± 0.1297
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.05998
Std Dev 0.8967
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

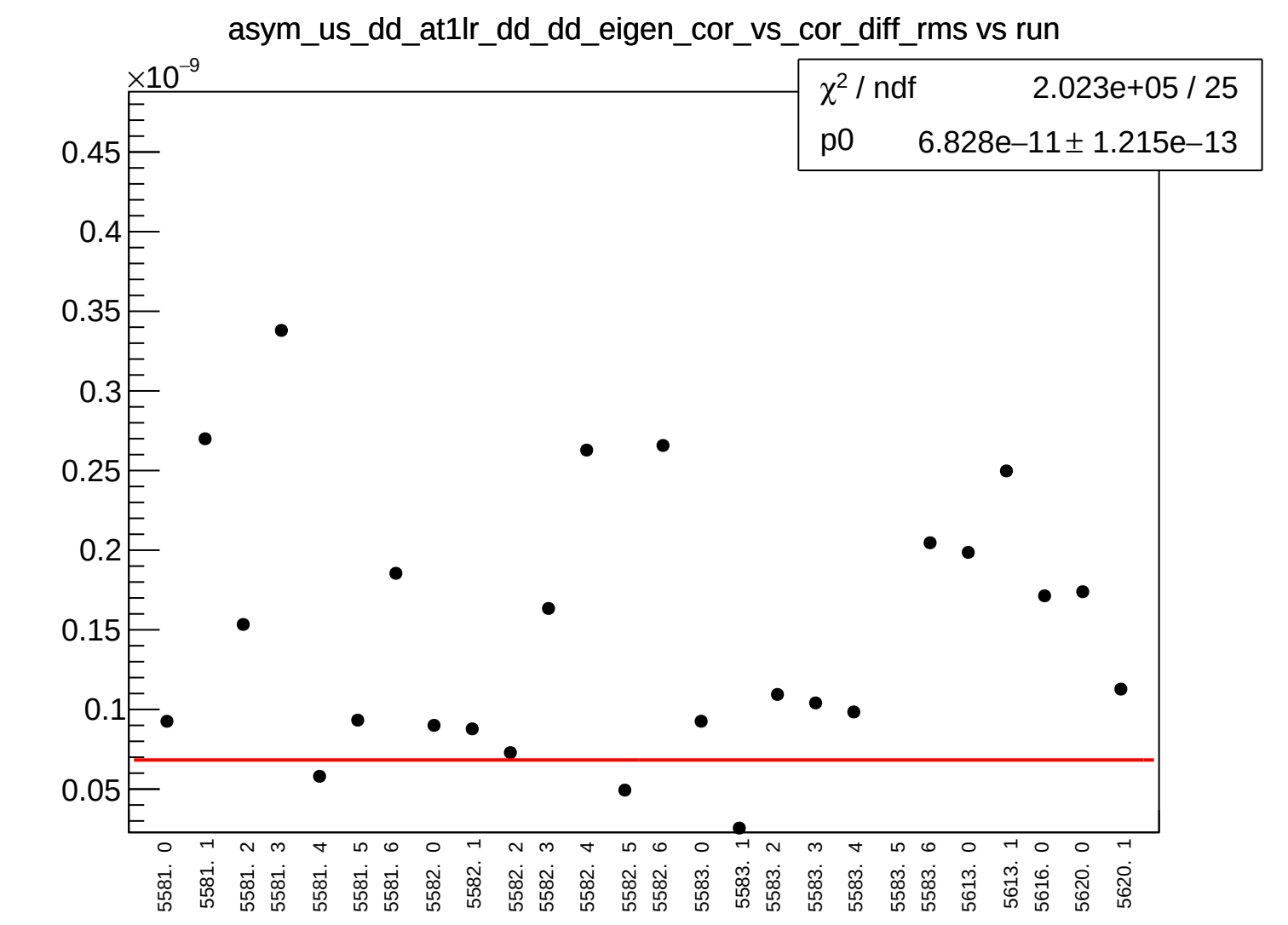

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.997e+05 / 32
p0 54.44 ± 0.09172
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

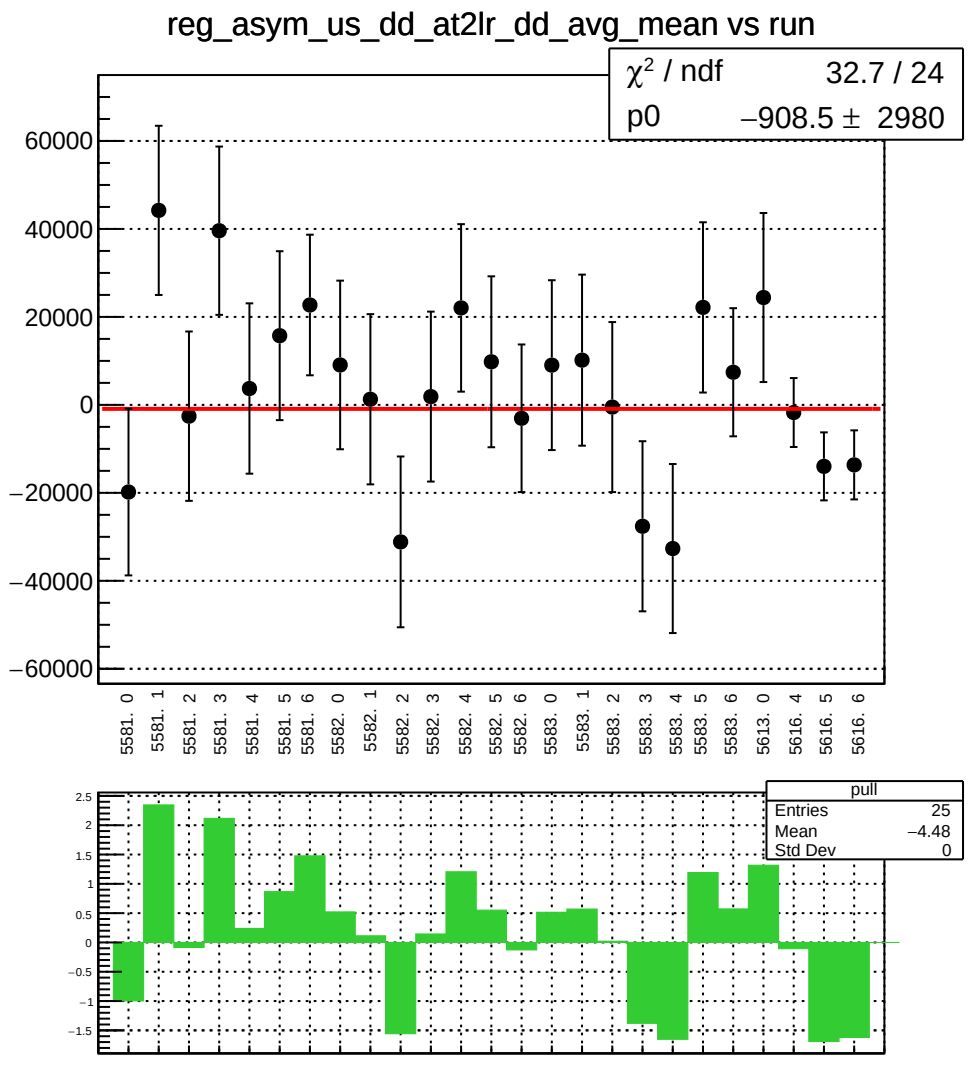

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.65 / 32
p0 −0.05324 ± 0.1297
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.05998
Std Dev 0.8967
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

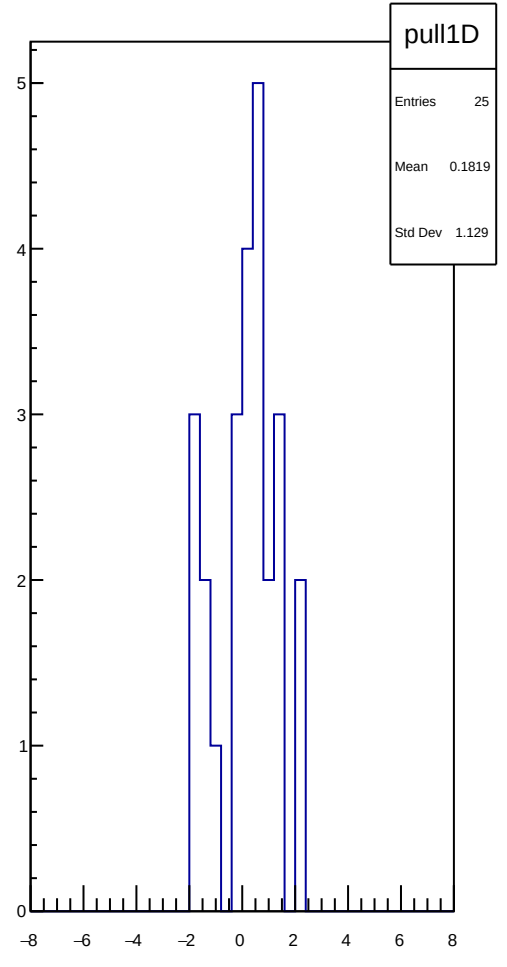

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.997e+05 / 32
p0 54.44 ± 0.09172
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

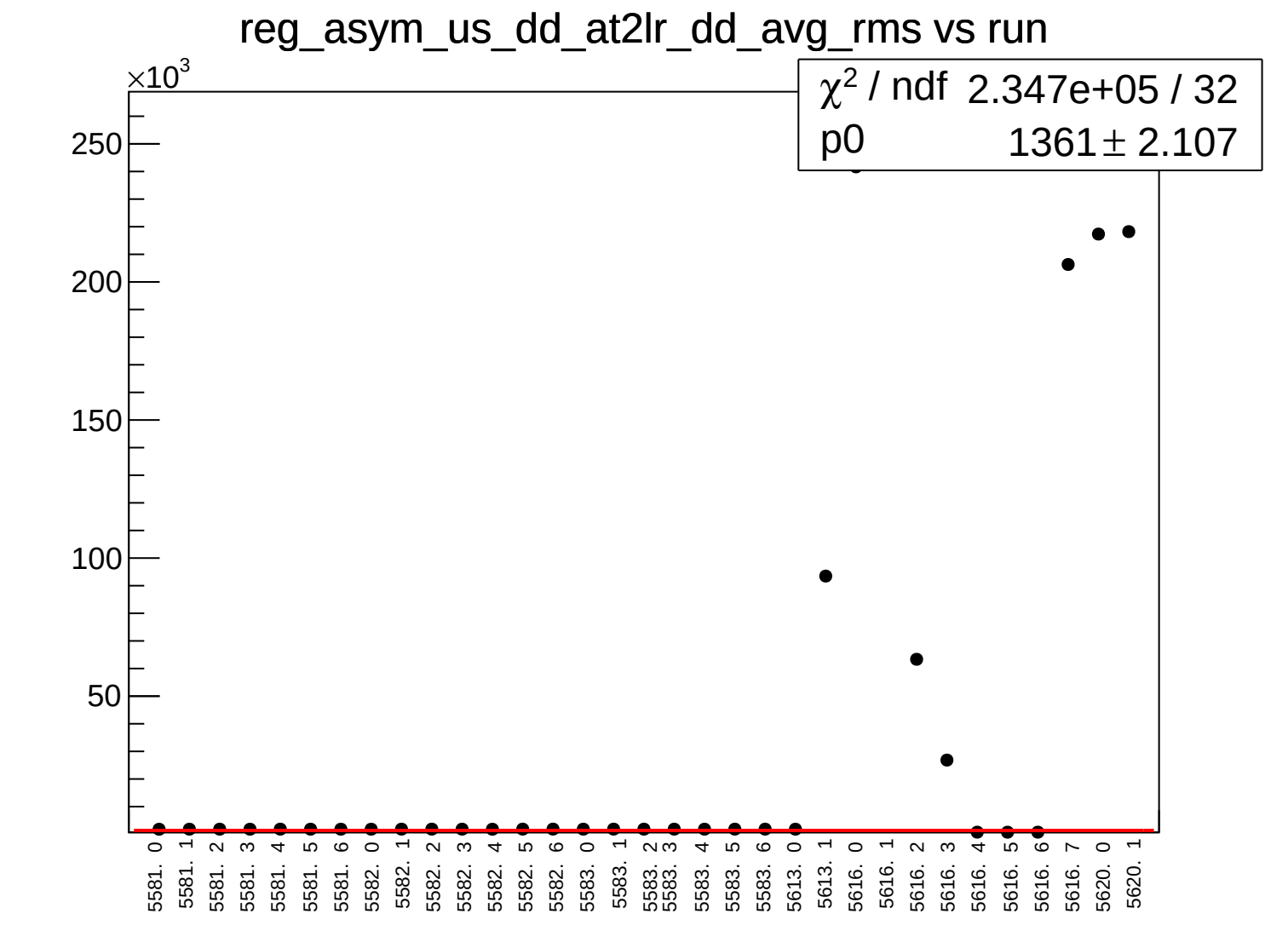

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.58 / 25
p0 −1.11e−13 ± 1.718e−13
6
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −188.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

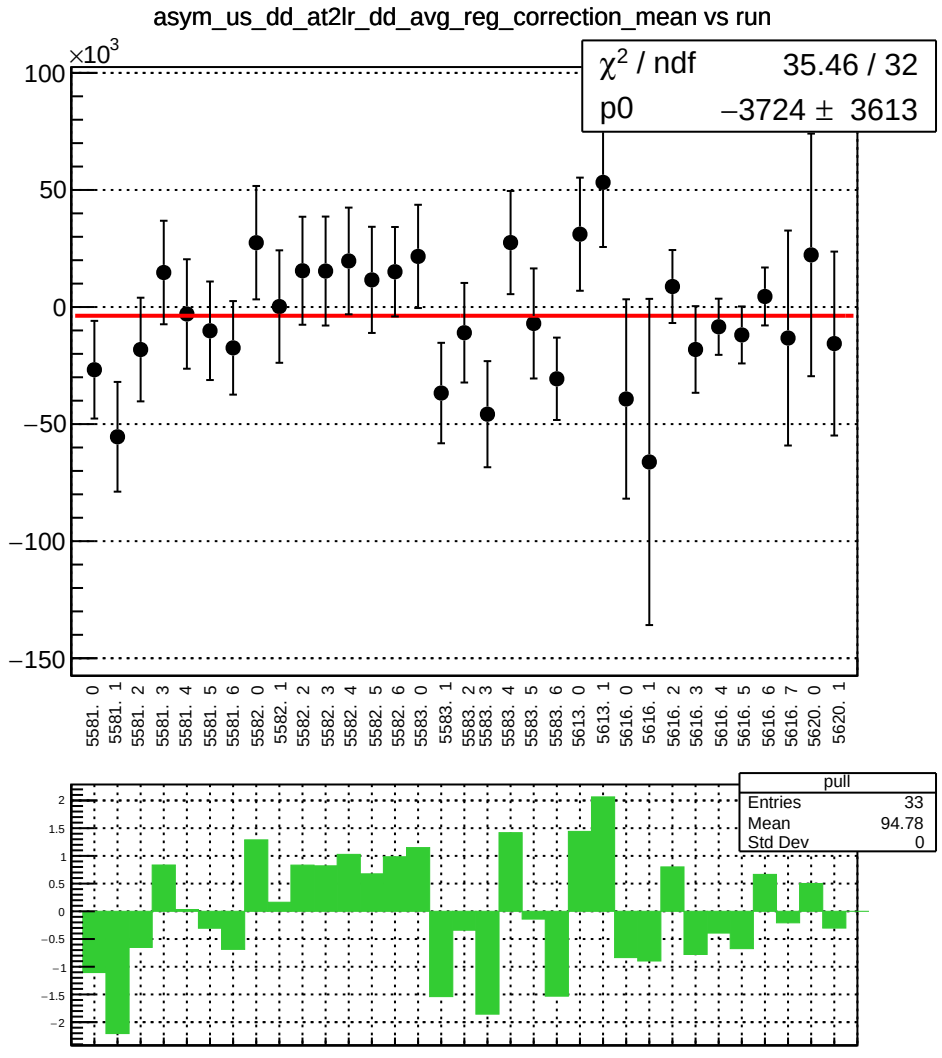

pull1D
Entries 26
Mean 0.00723
Std Dev 0.8679
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

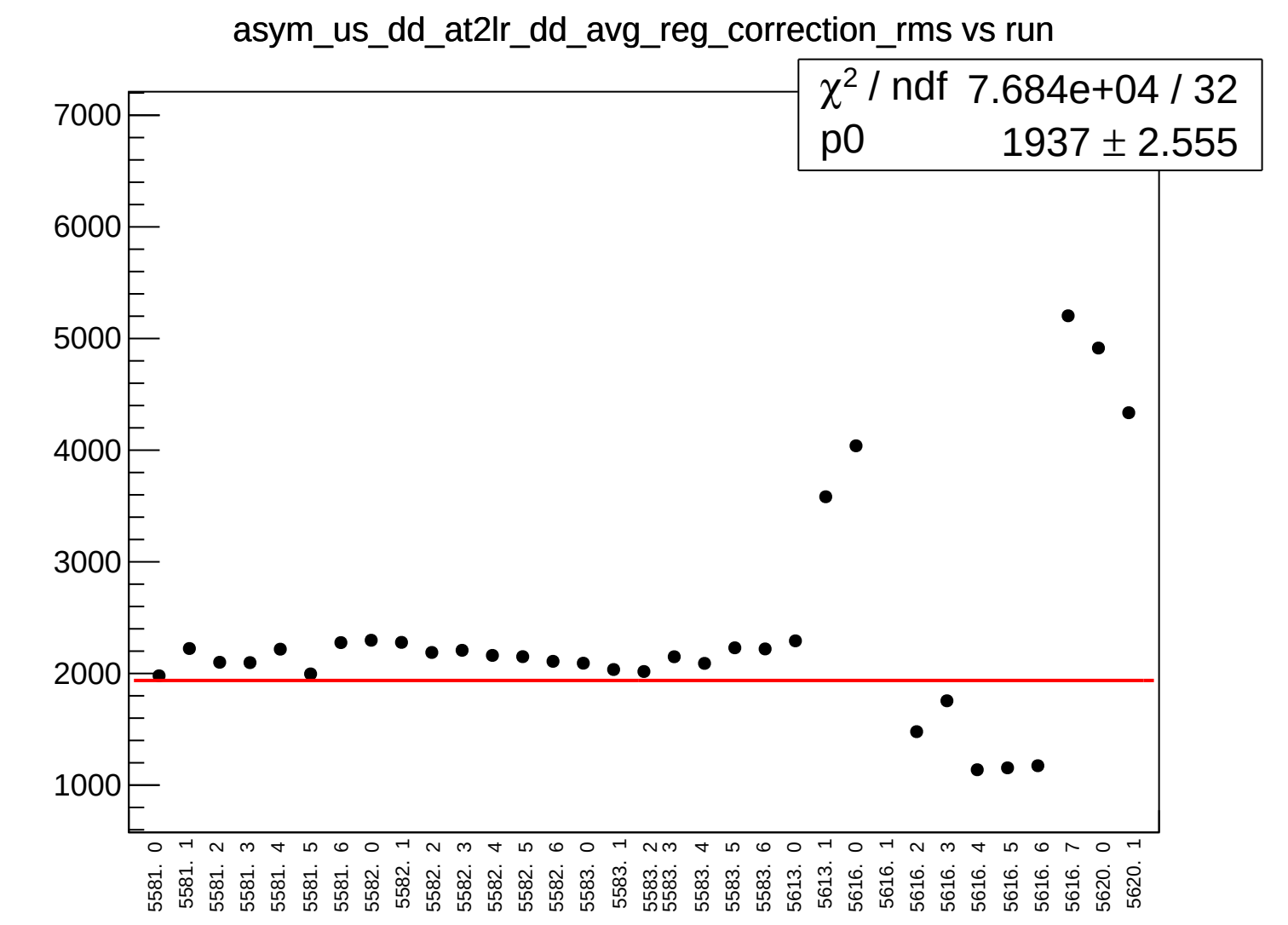

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.023e+05 / 25
p0 6.828e−11 ± 1.215e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

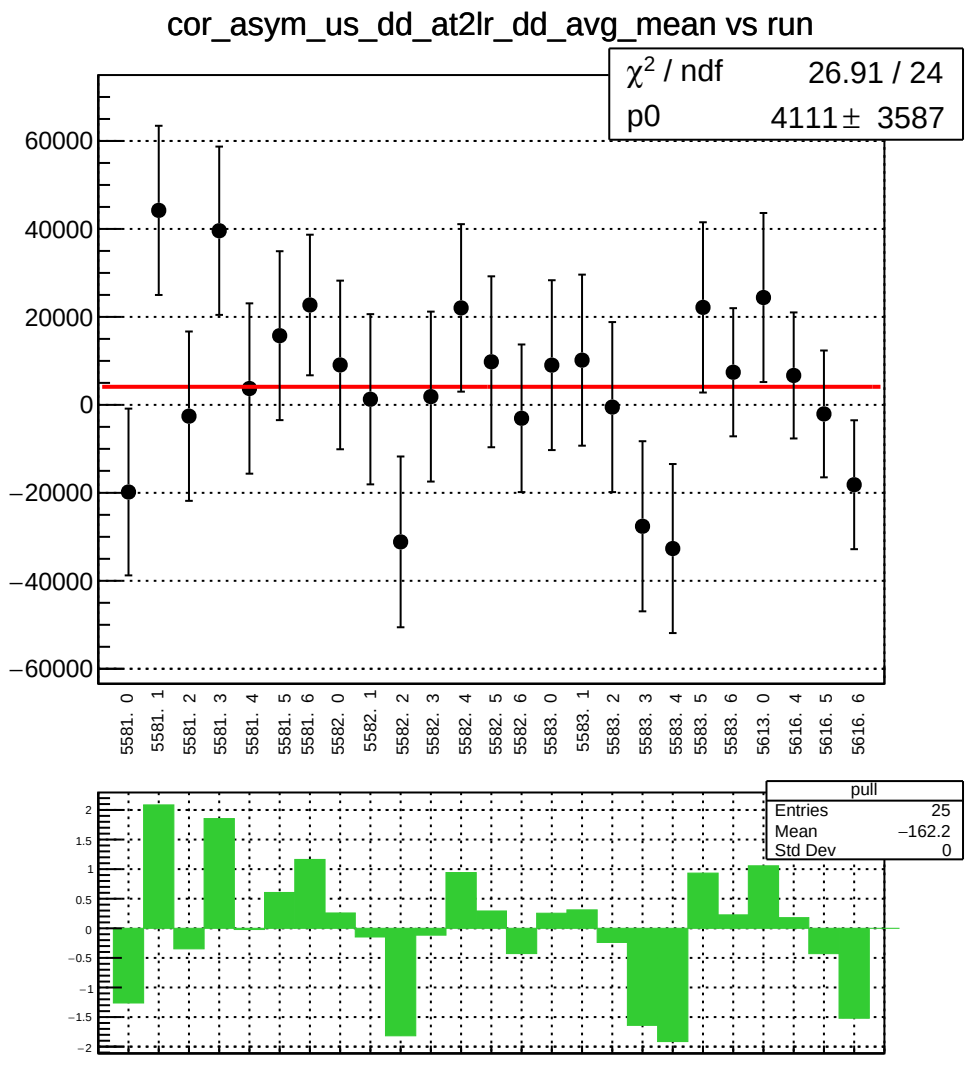

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 32.7 / 24
p0 −908.5 ± 2980
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 4
5616. 5
5616. 6
pull
Entries 25
Mean −4.48
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

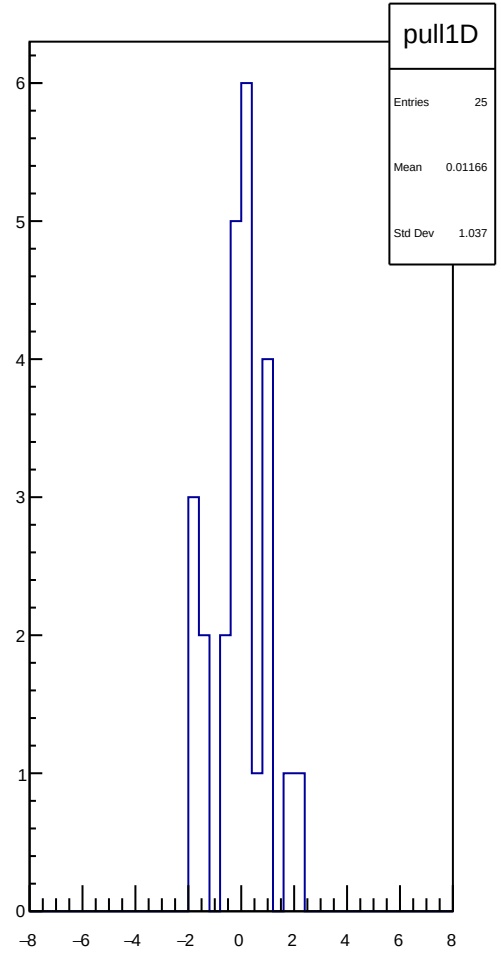

pull1D
Entries 25
Mean 0.1819
Std Dev 1.129
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

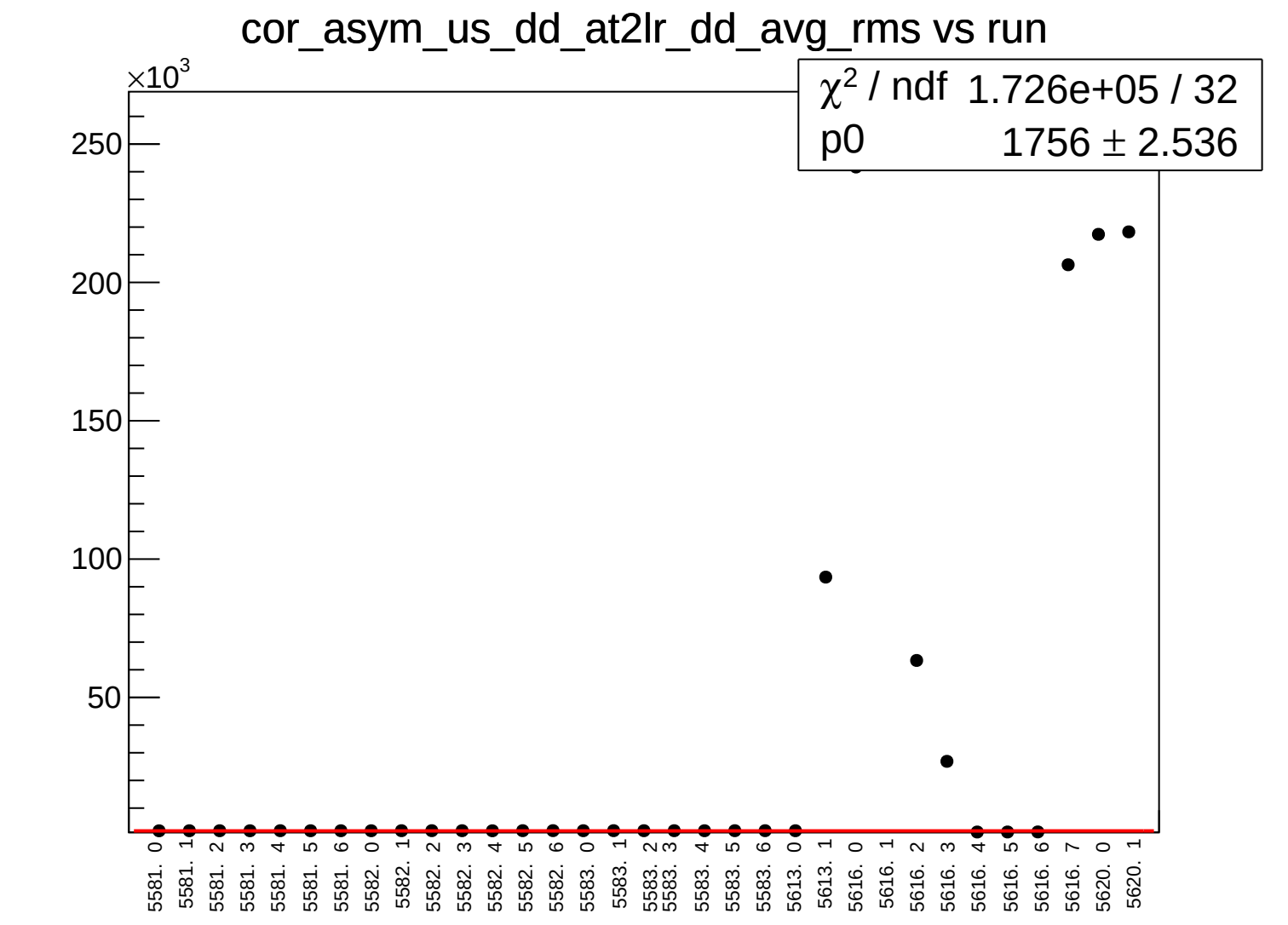

reg_asym_us_dd_at2lr_dd_avg_rms vs run
×10^3
χ² / ndf 2.347e+05 / 32
p0 1361 ± 2.107
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

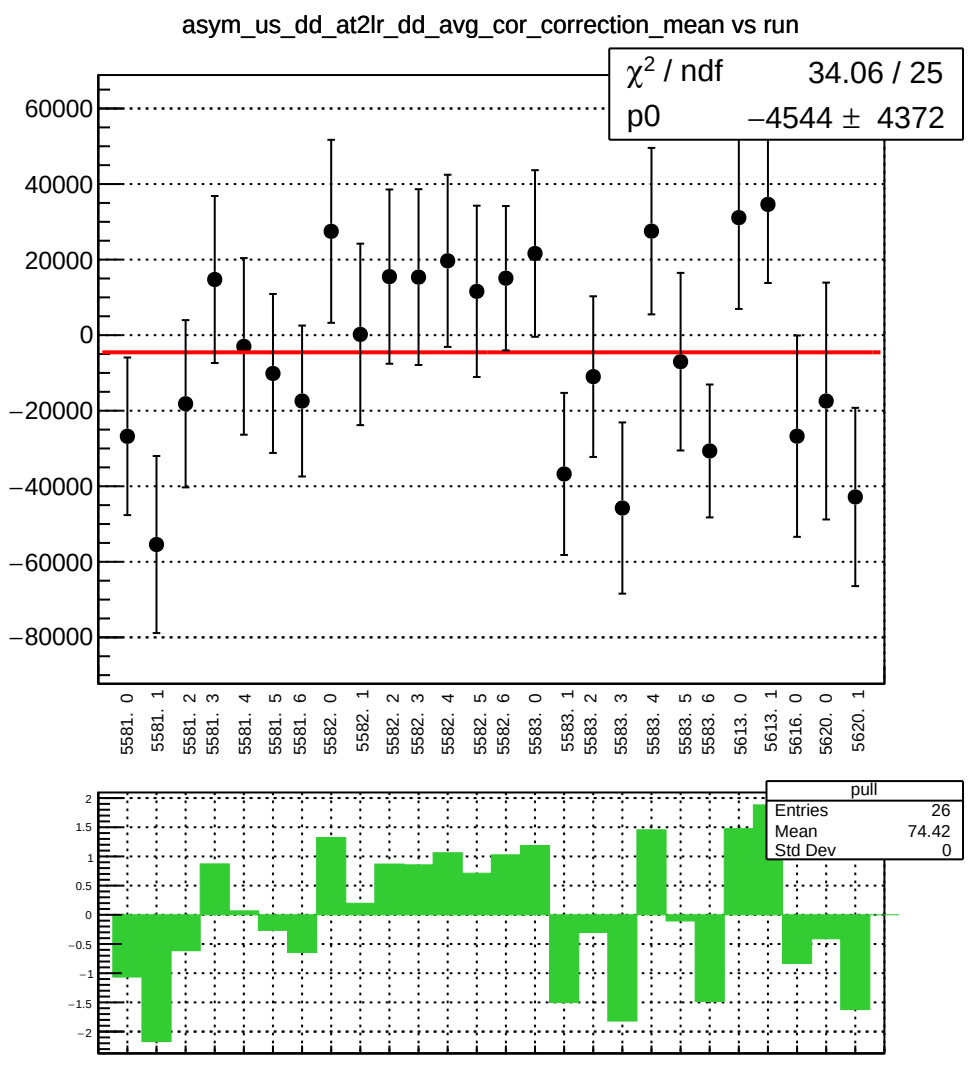

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 35.46 / 32
p0 −3724 ± 3613
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 94.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.007792
Std Dev 1.037
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

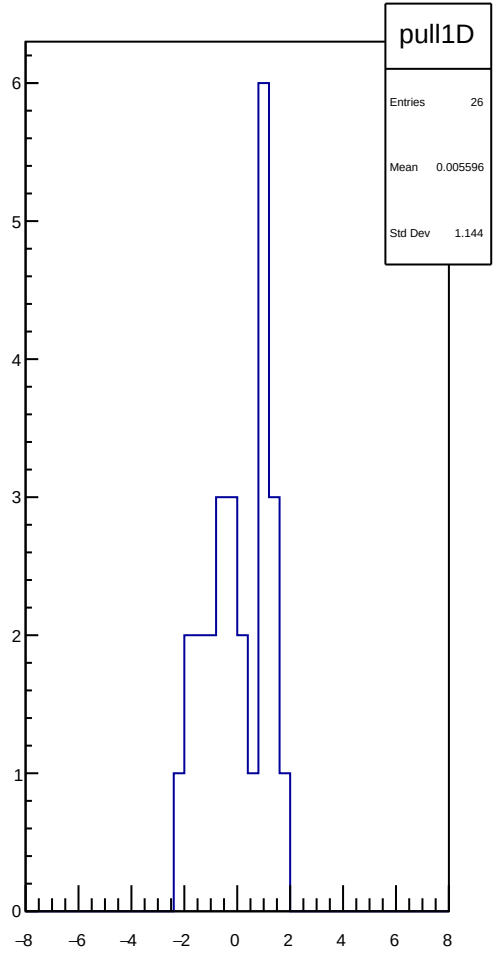

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 7.684e+04 / 32
p0 1937 ± 2.555
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

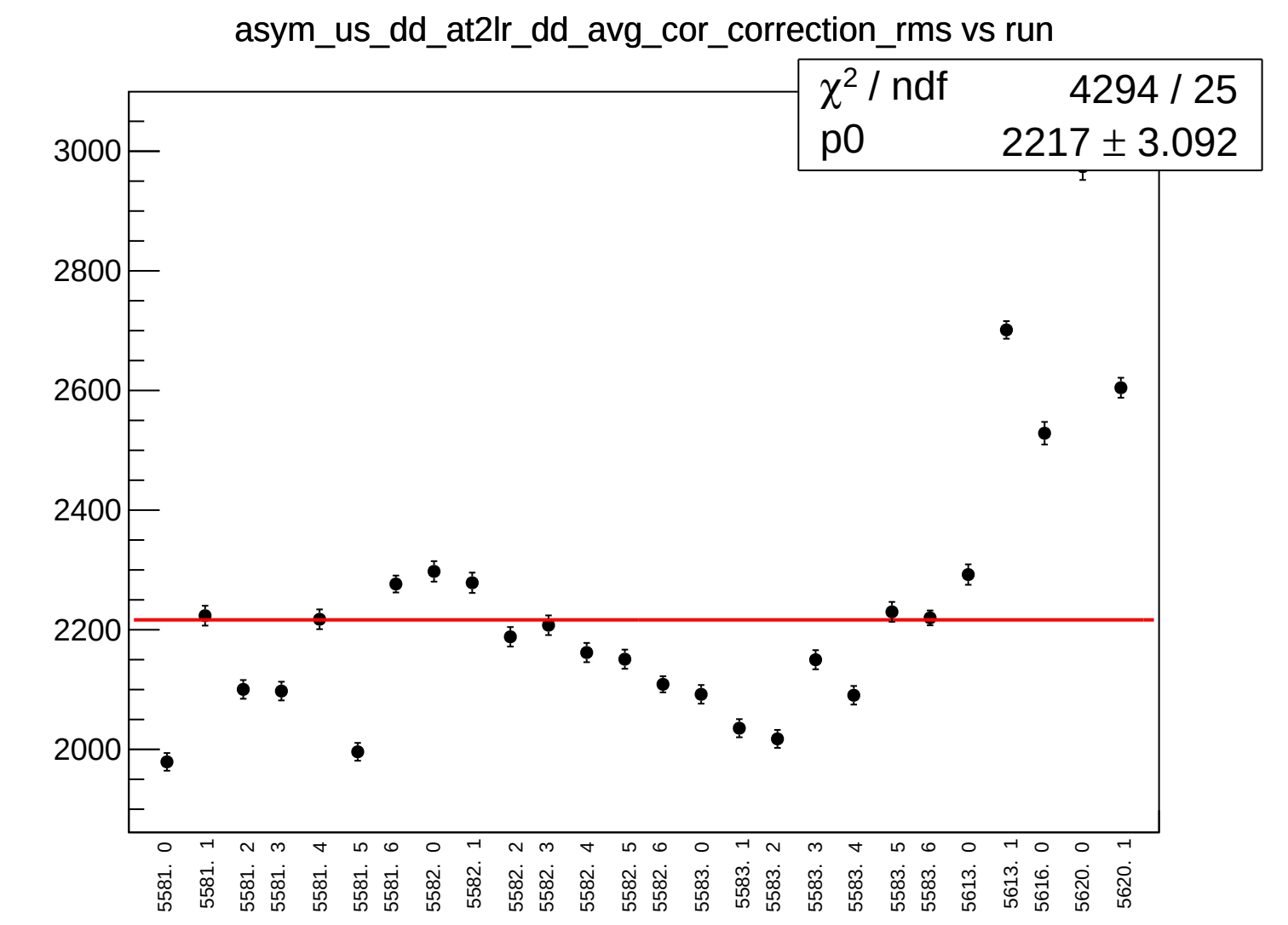

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 26.91 / 24
p0 4111 ± 3587
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 4
5616. 5
5616. 6
pull
Entries 25
Mean −162.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

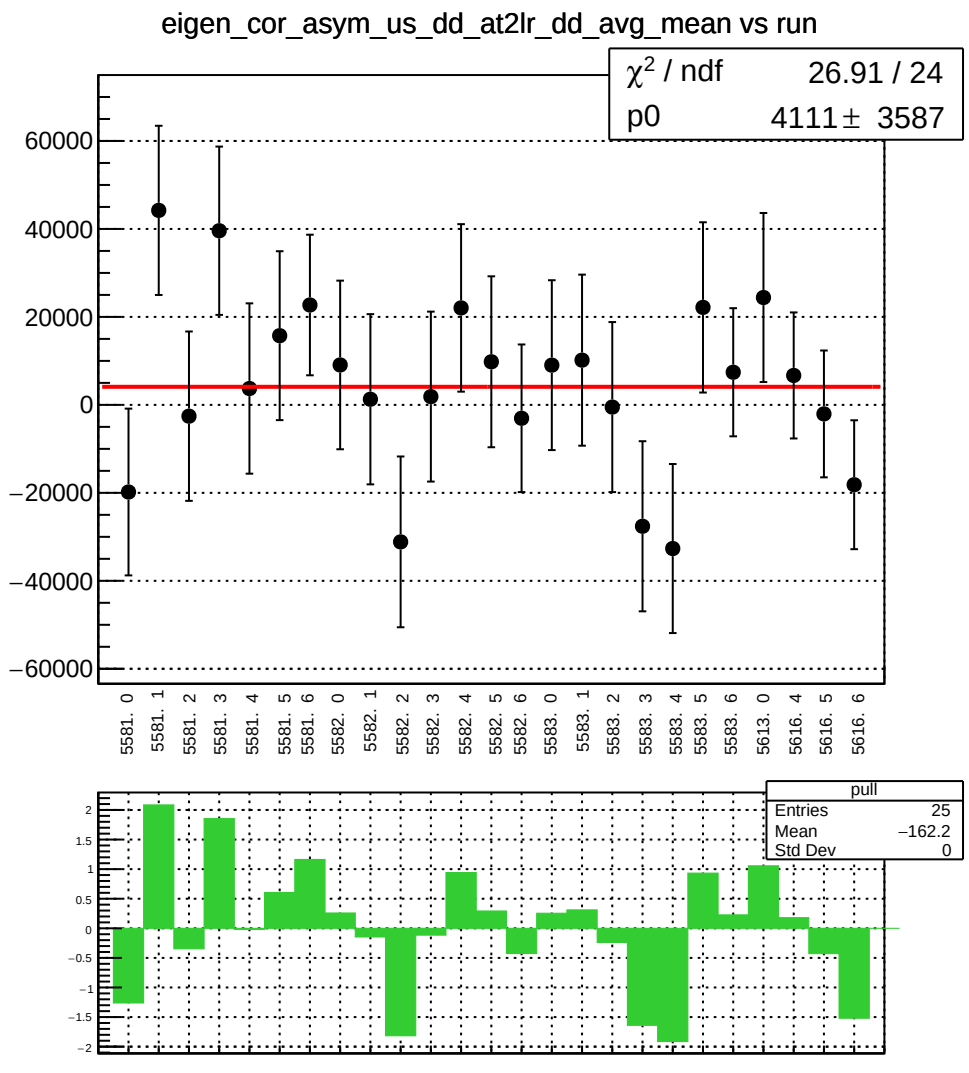

pull1D
Entries 25
Mean 0.01166
Std Dev 1.037
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

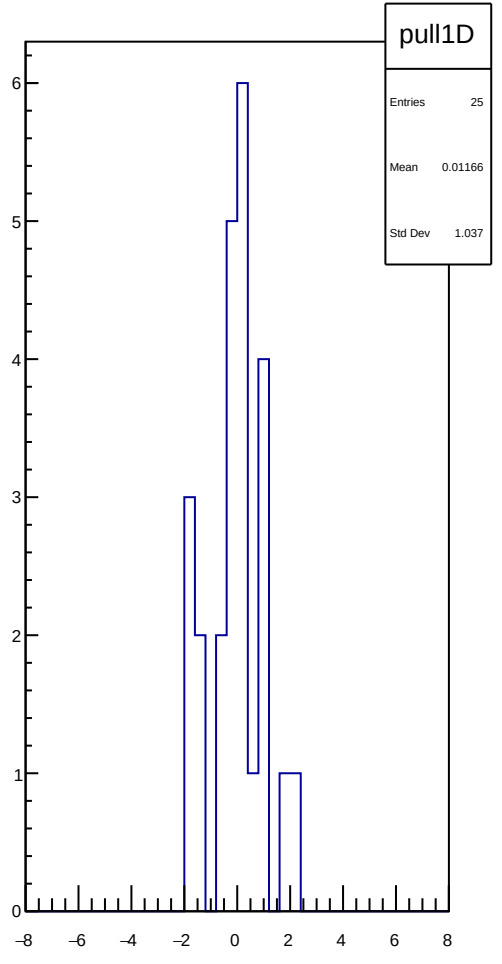

cor_asym_us_dd_at2lr_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.726e+05 / 32
p0 1756 ± 2.536
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

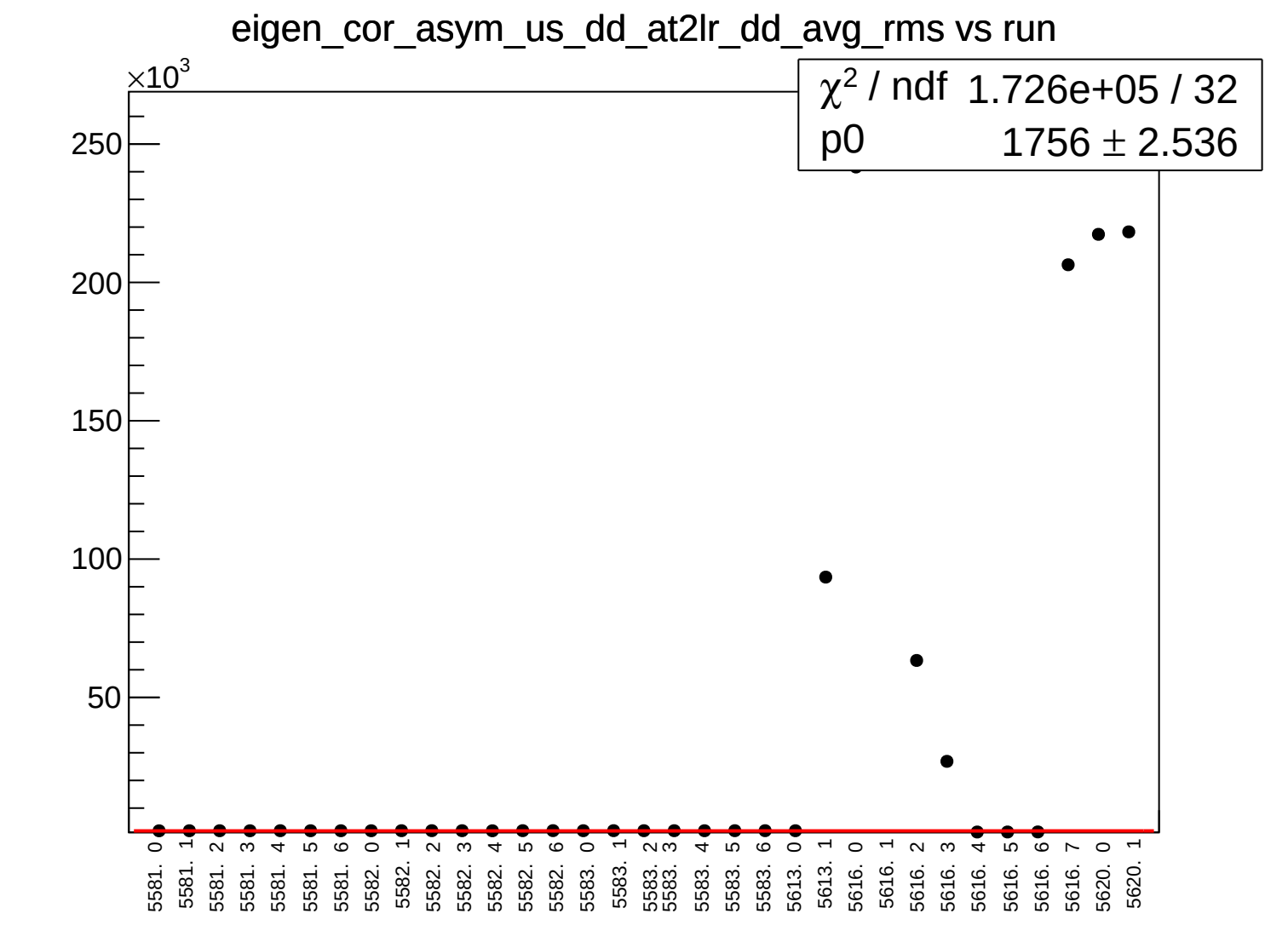

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 34.06 / 25
p0 −4544 ± 4372
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 74.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

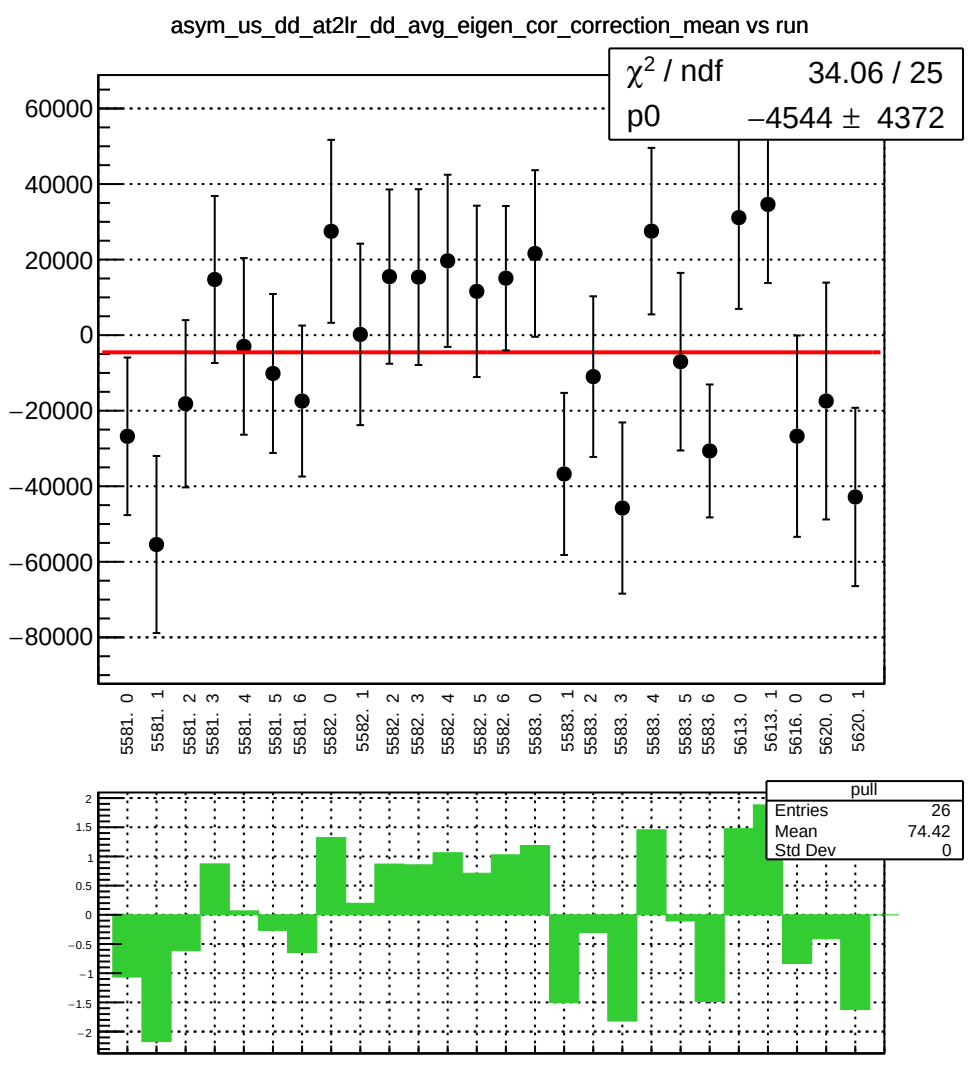

pull1D
Entries 26
Mean 0.005596
Std Dev 1.144
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

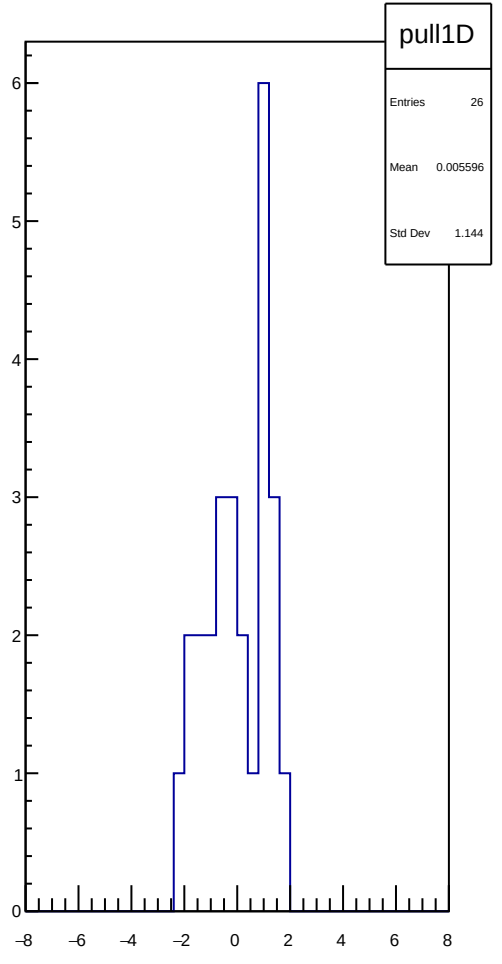

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 4294 / 25
p0 2217 ± 3.092
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

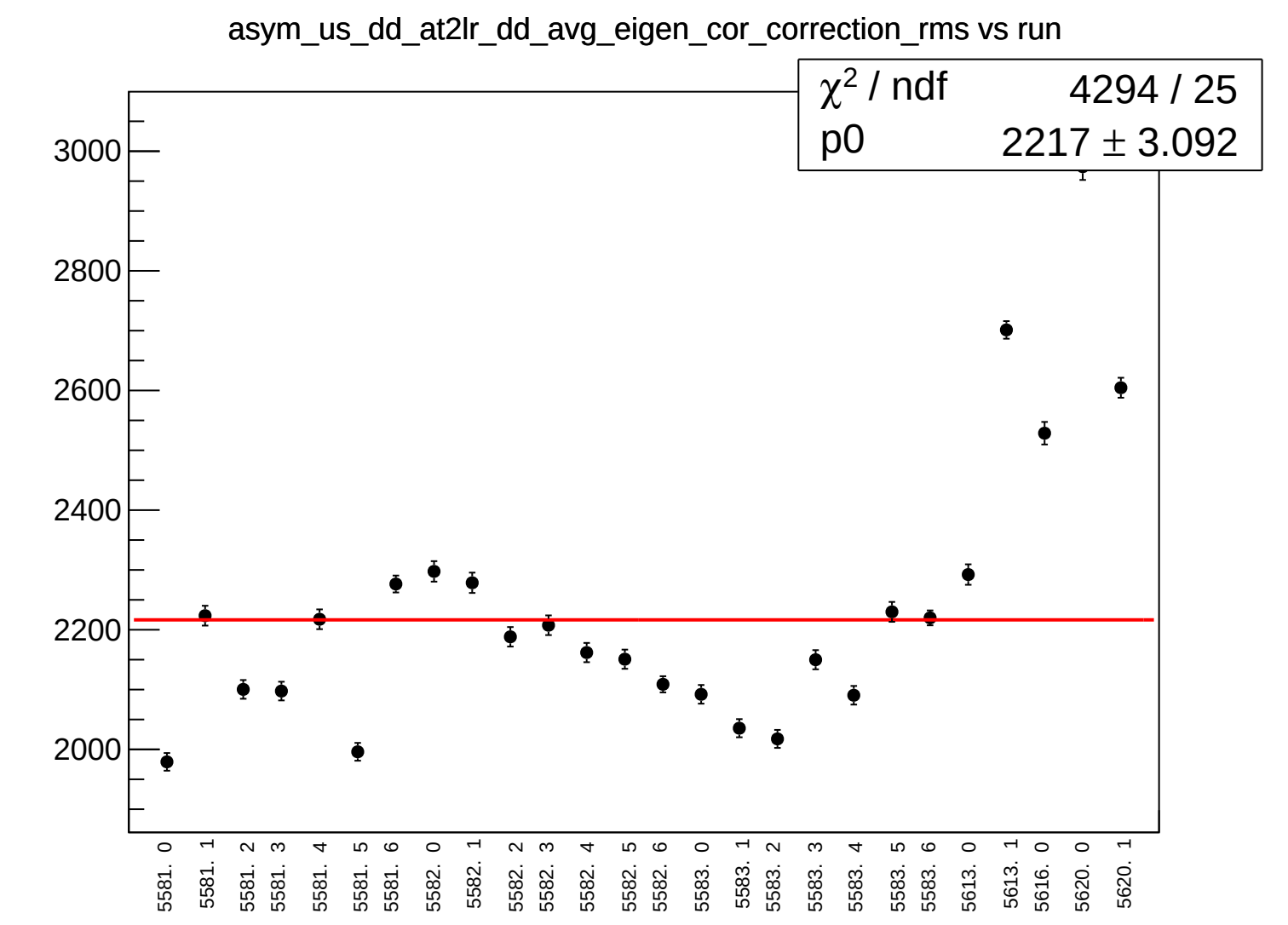

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 26.91 / 24
p0 4111 ± 3587
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 4
5616. 5
5616. 6
pull
Entries 25
Mean −162.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

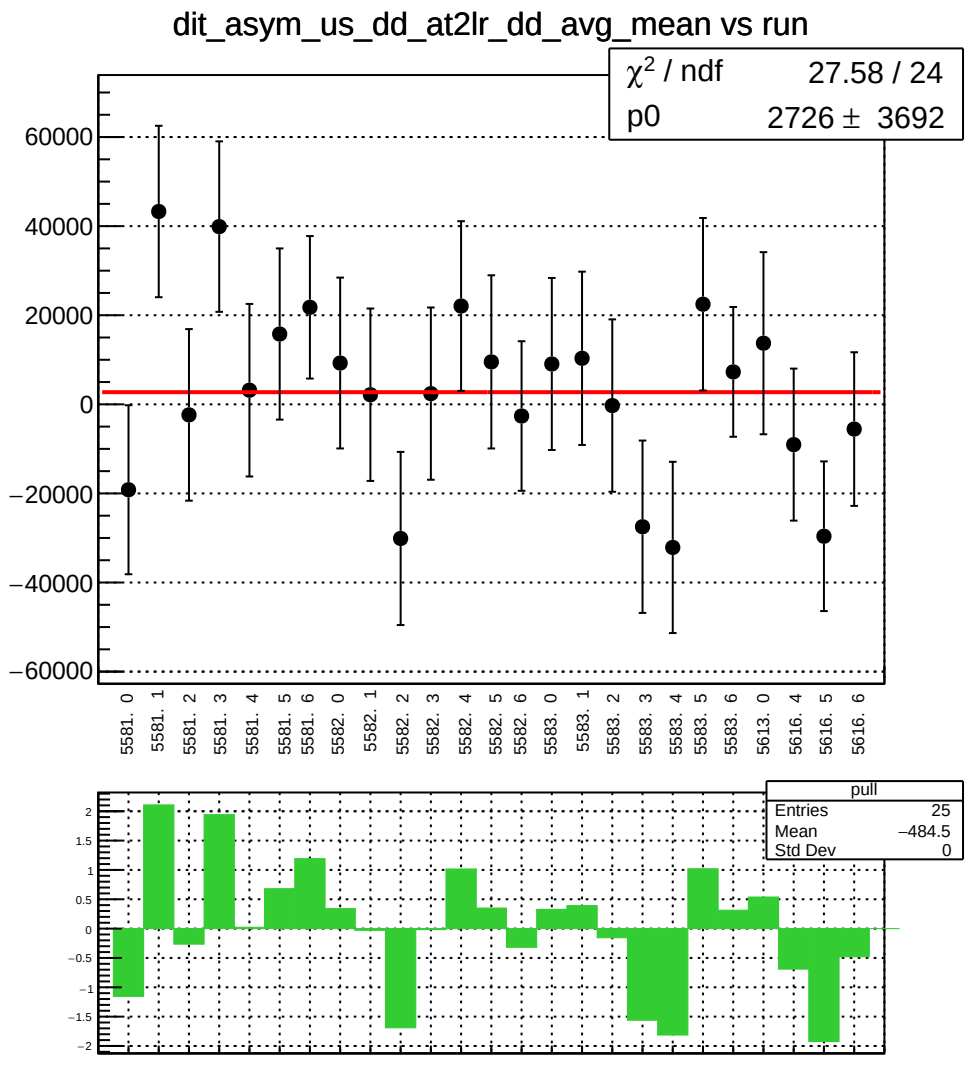

pull1D
Entries 25
Mean 0.01166
Std Dev 1.037
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

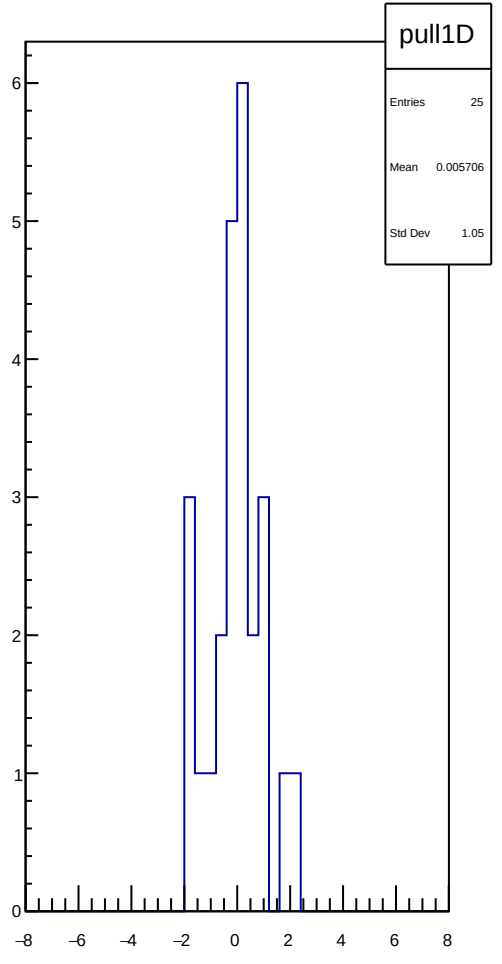

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.726e+05 / 32
p0 1756 ± 2.536
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

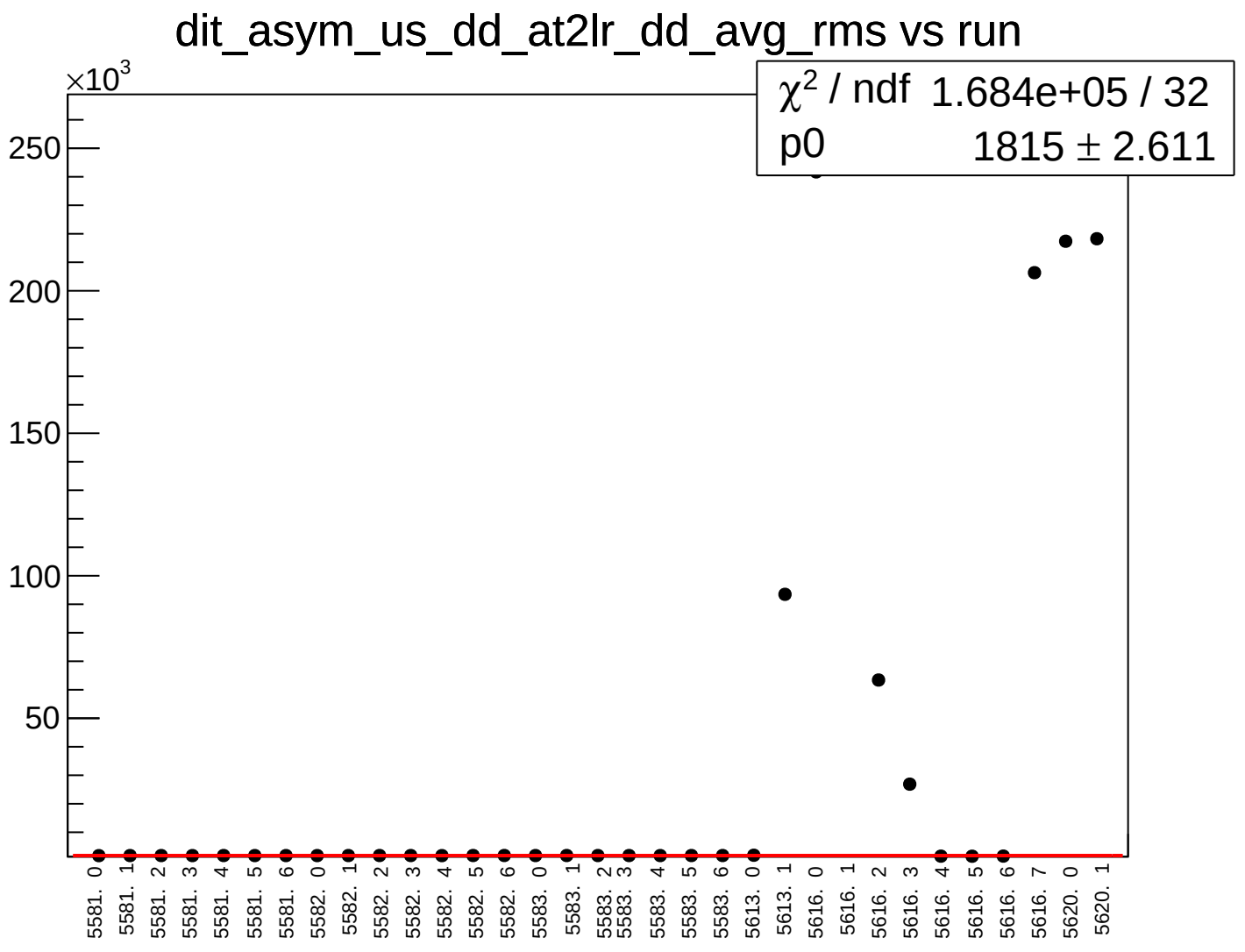

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 34.06 / 25
p0 −4544 ± 4372
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 74.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

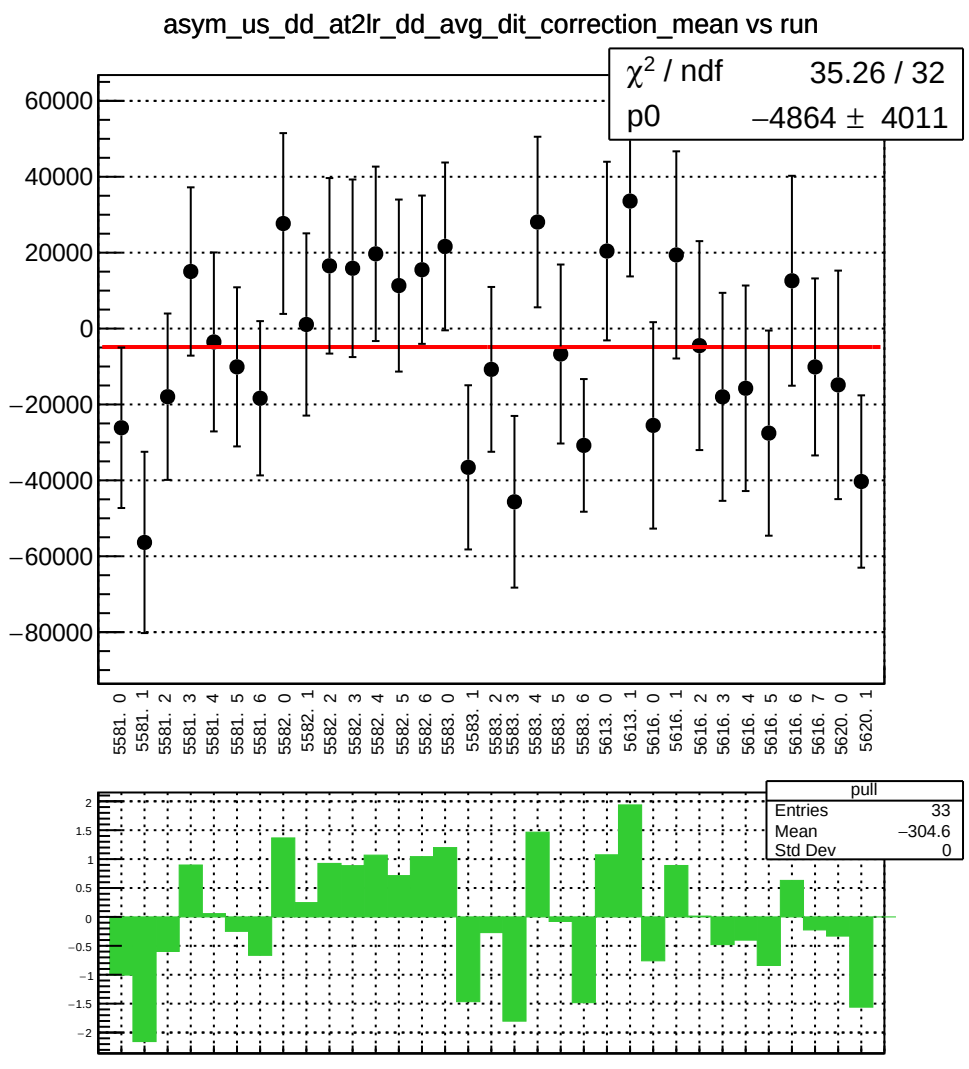

pull1D
Entries 26
Mean 0.005596
Std Dev 1.144
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

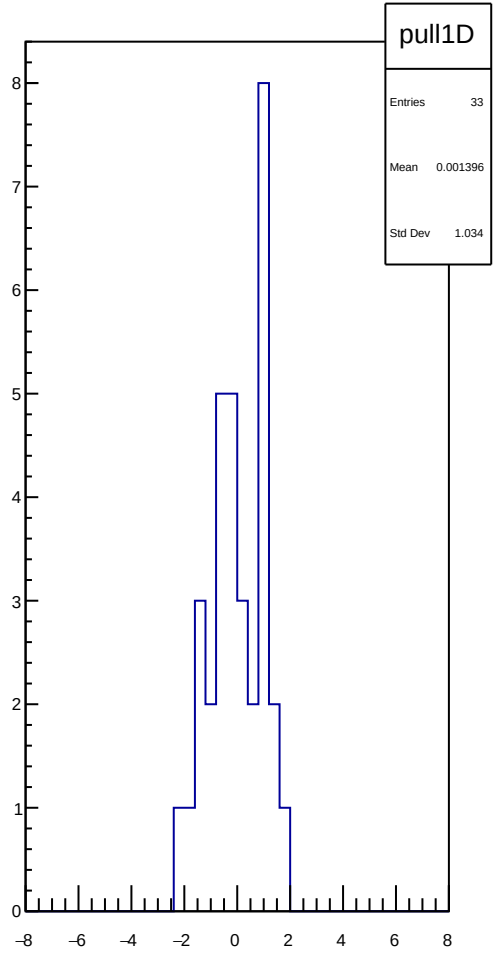

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4294 / 25
p0 2217 ± 3.092
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

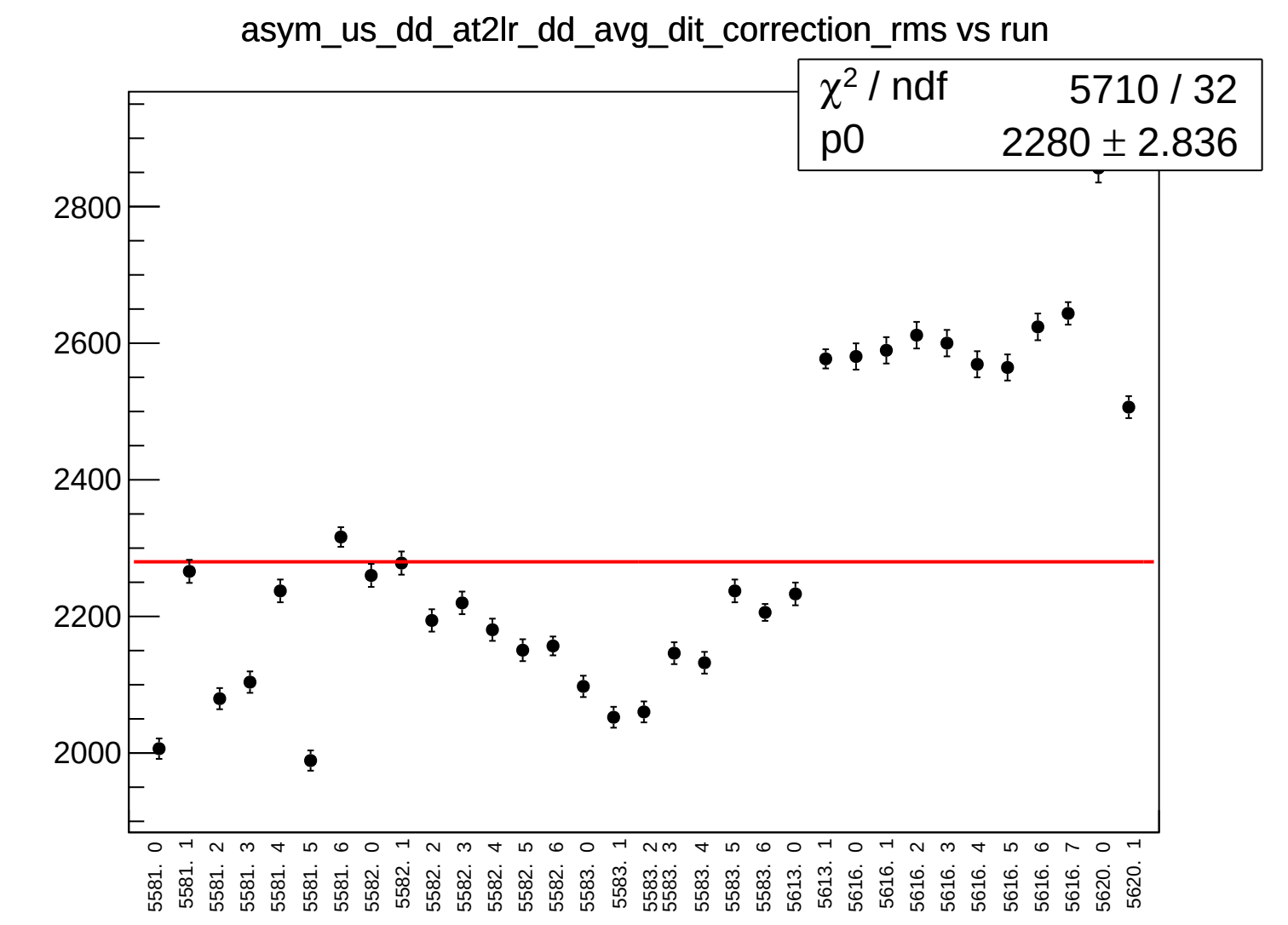

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 27.58 / 24
p0 2726 ± 3692
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 4
5616. 5
5616. 6
pull
Entries 25
Mean −484.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

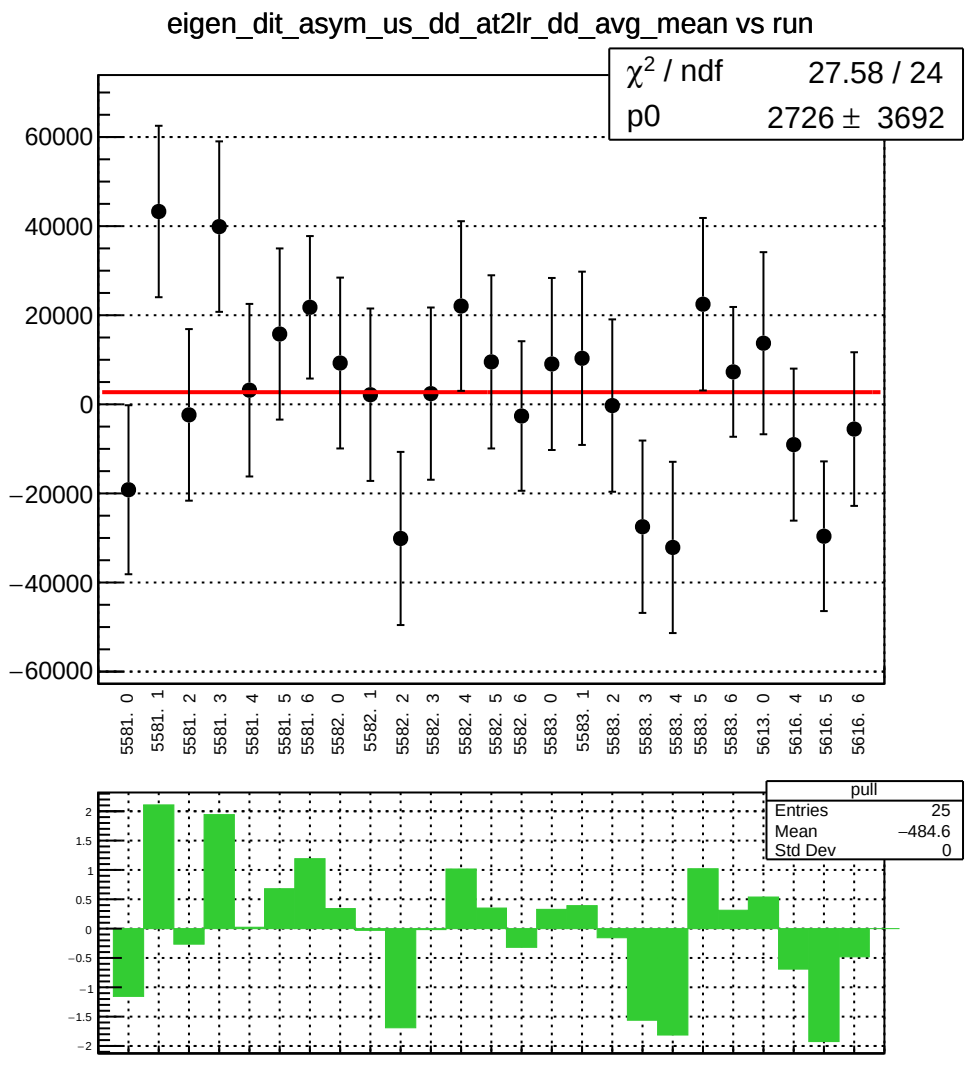

pull1D
Entries 25
Mean 0.005706
Std Dev 1.05
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

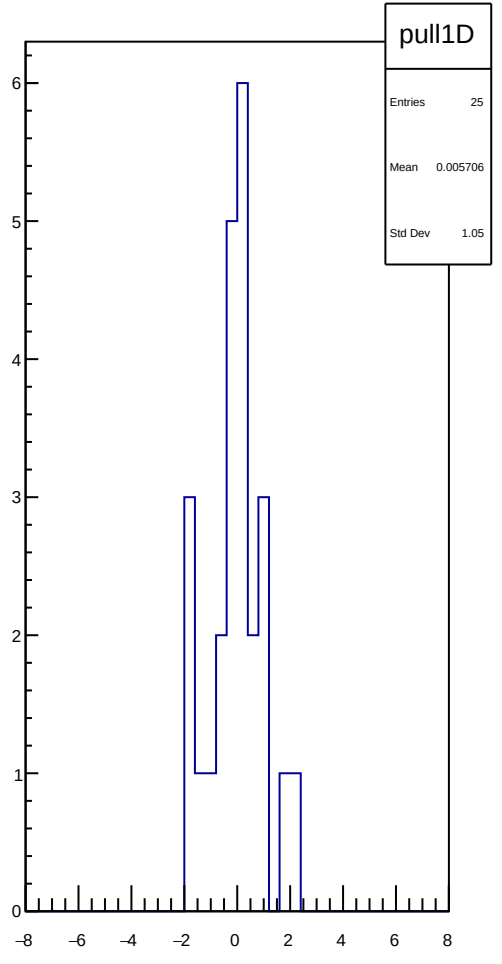

dit_asym_us_dd_at2lr_dd_avg_rms vs run
×10^3
χ² / ndf 1.684e+05 / 32
p0 1815 ± 2.611
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

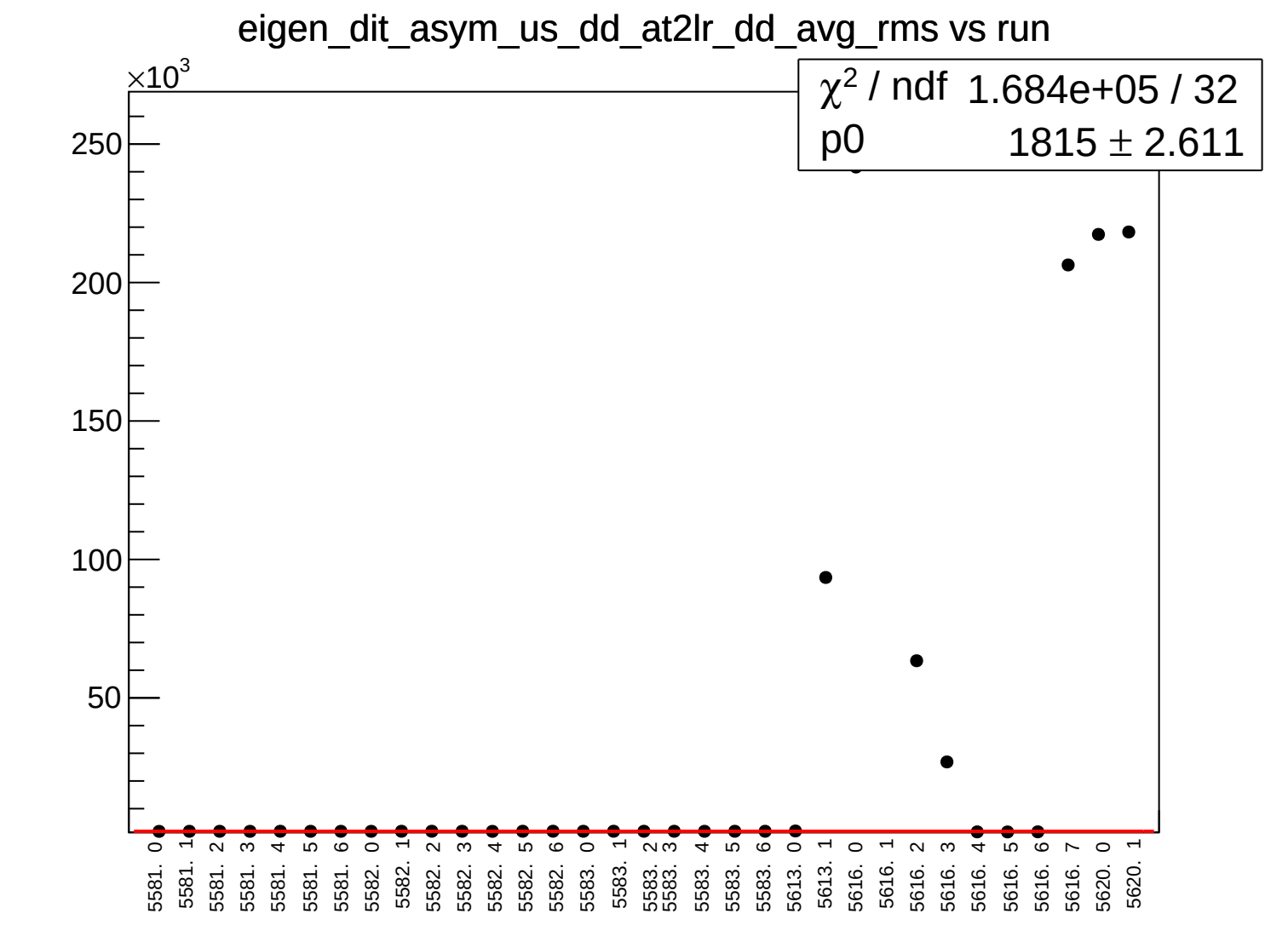

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 35.26 / 32
p0 −4864 ± 4011
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −304.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

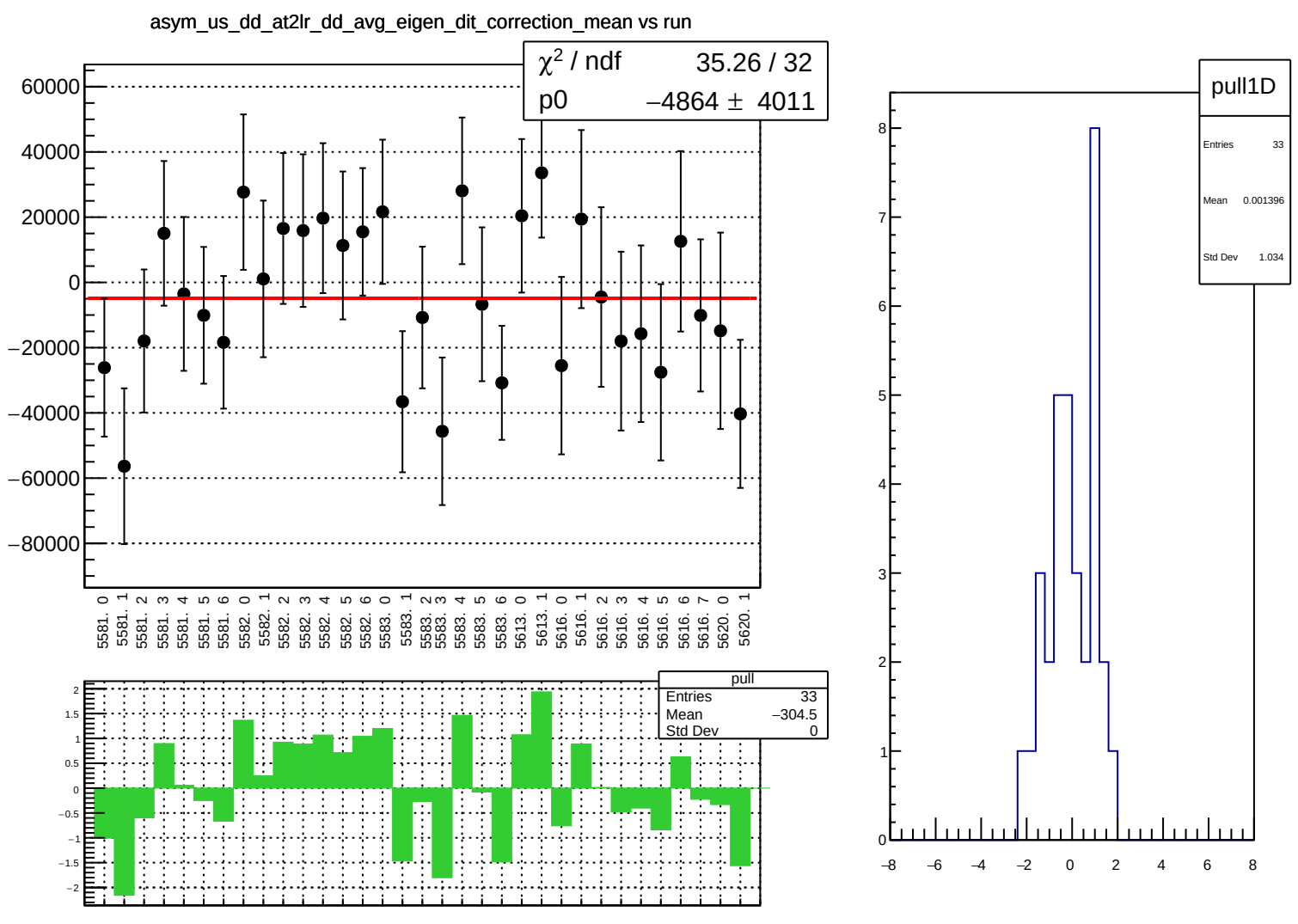

pull1D
Entries 33
Mean 0.001396
Std Dev 1.034
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

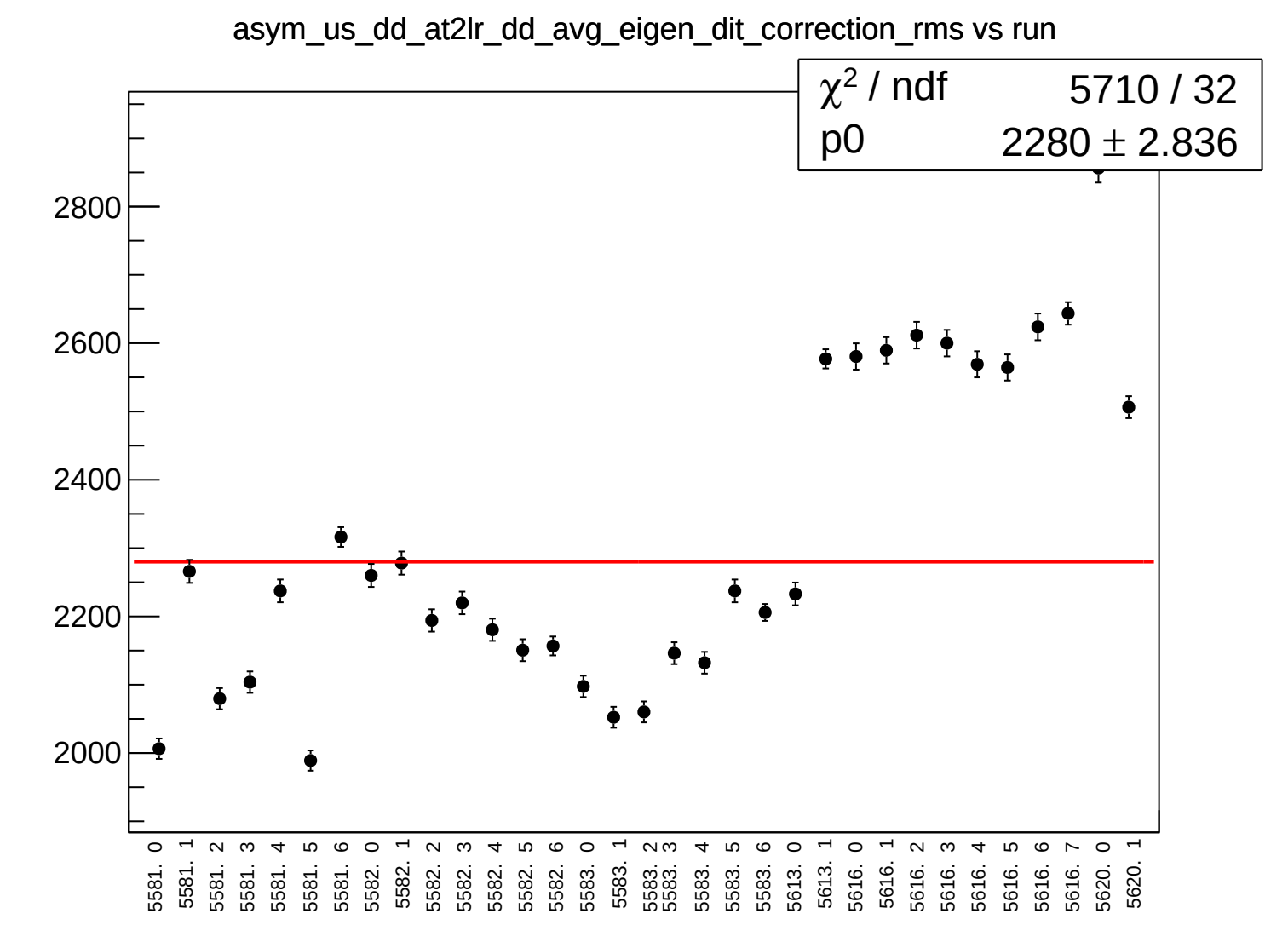

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 5710 / 32
p0 2280 ± 2.836
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

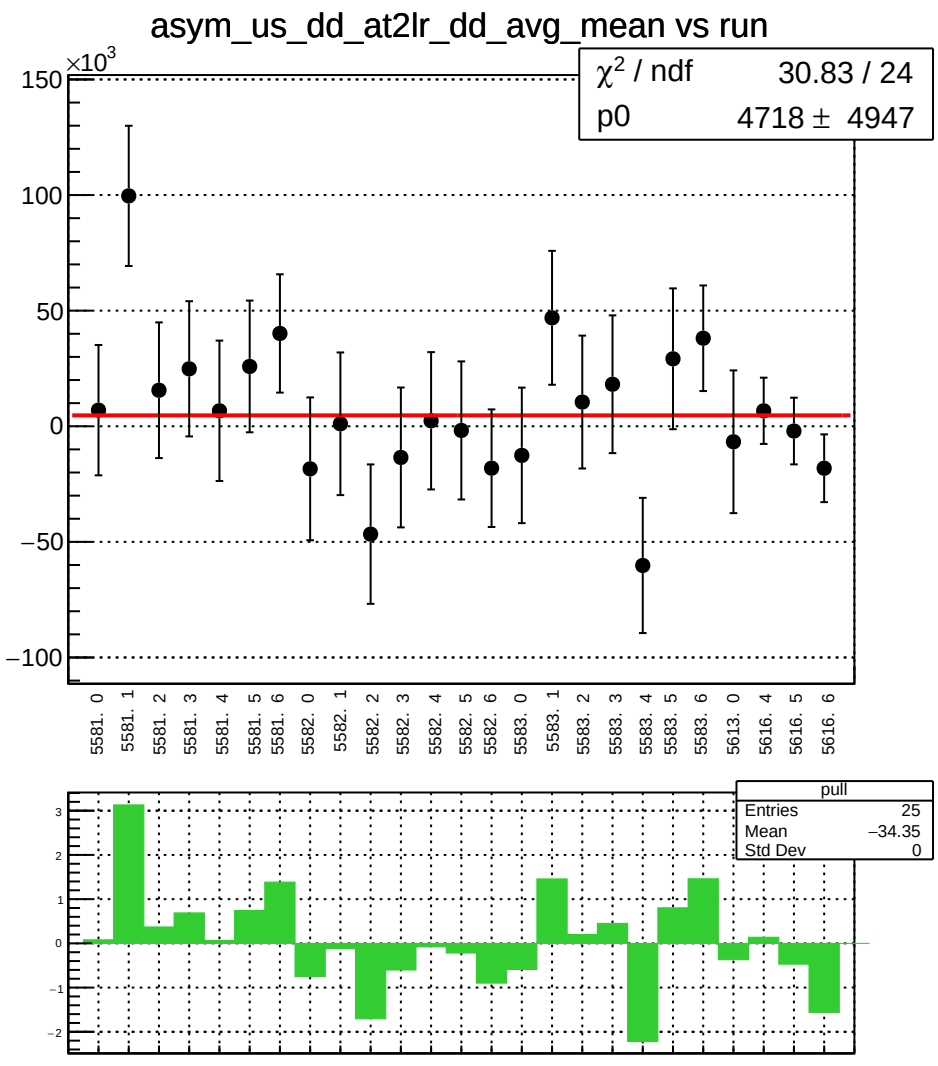

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 27.58 / 24
p0 2726 ± 3692
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 4
5616. 5
5616. 6
pull
Entries 25
Mean −484.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

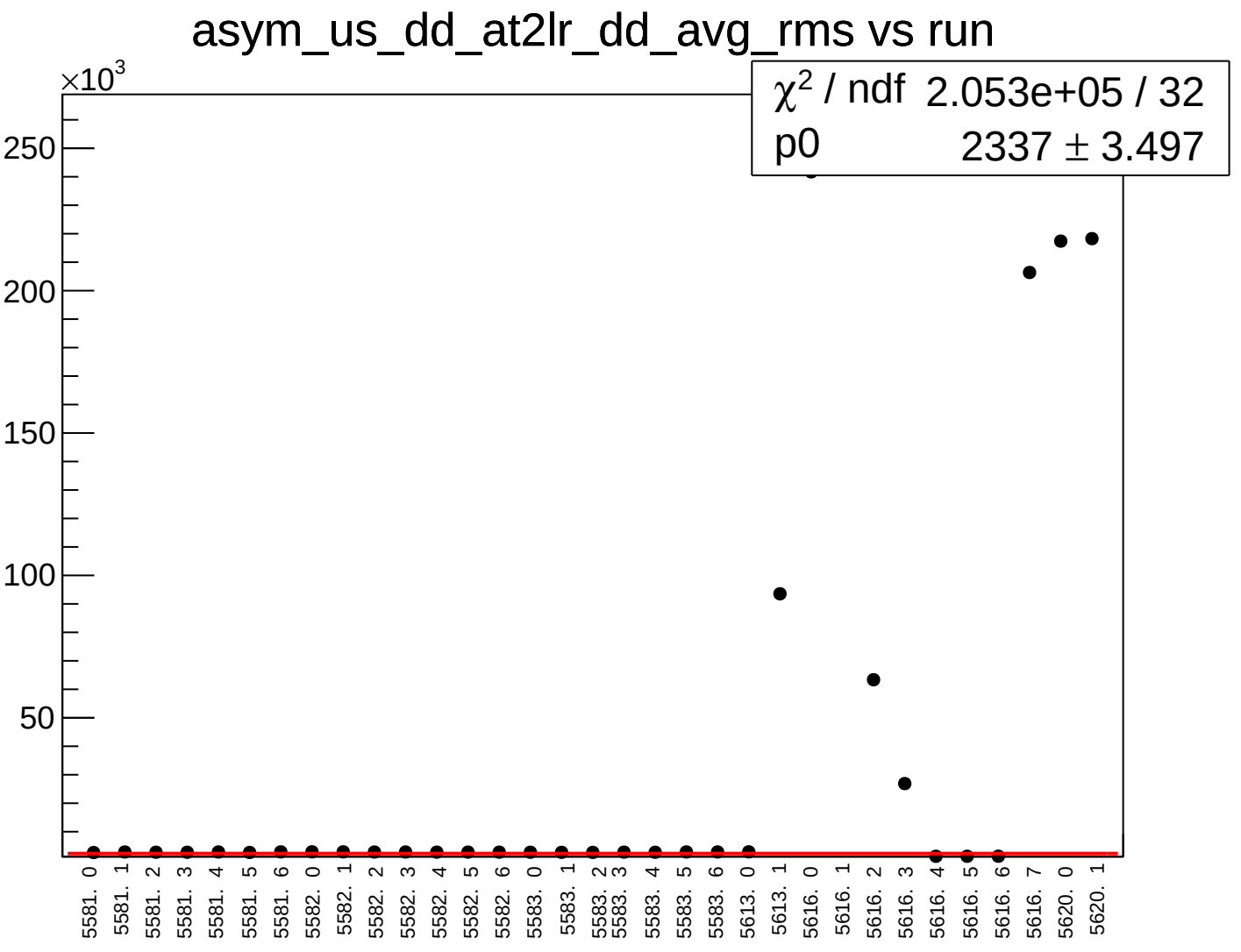

pull1D
Entries 25
Mean 0.005706
Std Dev 1.05
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

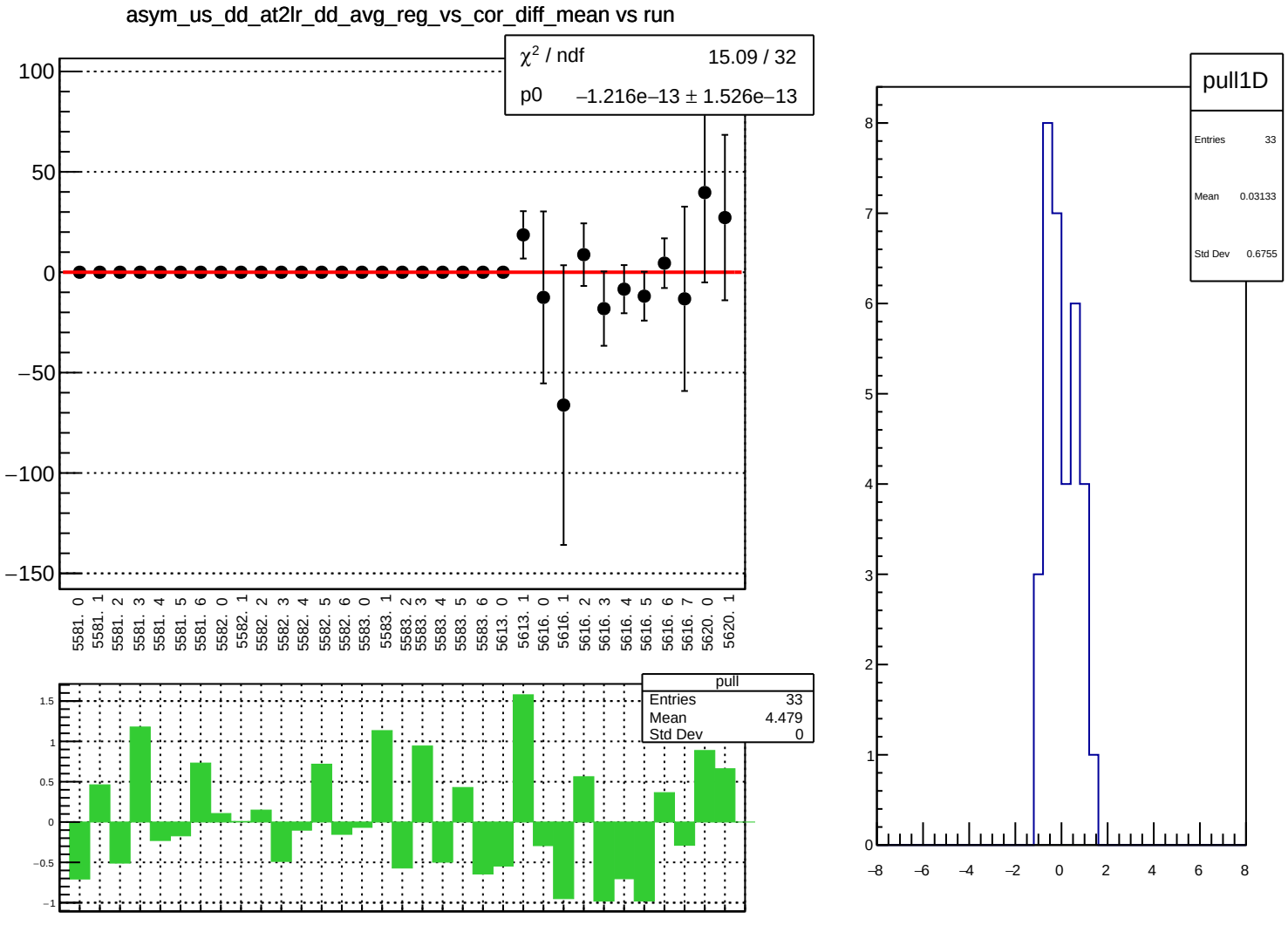

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.684e+05 / 32
p0 1815 ± 2.611
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

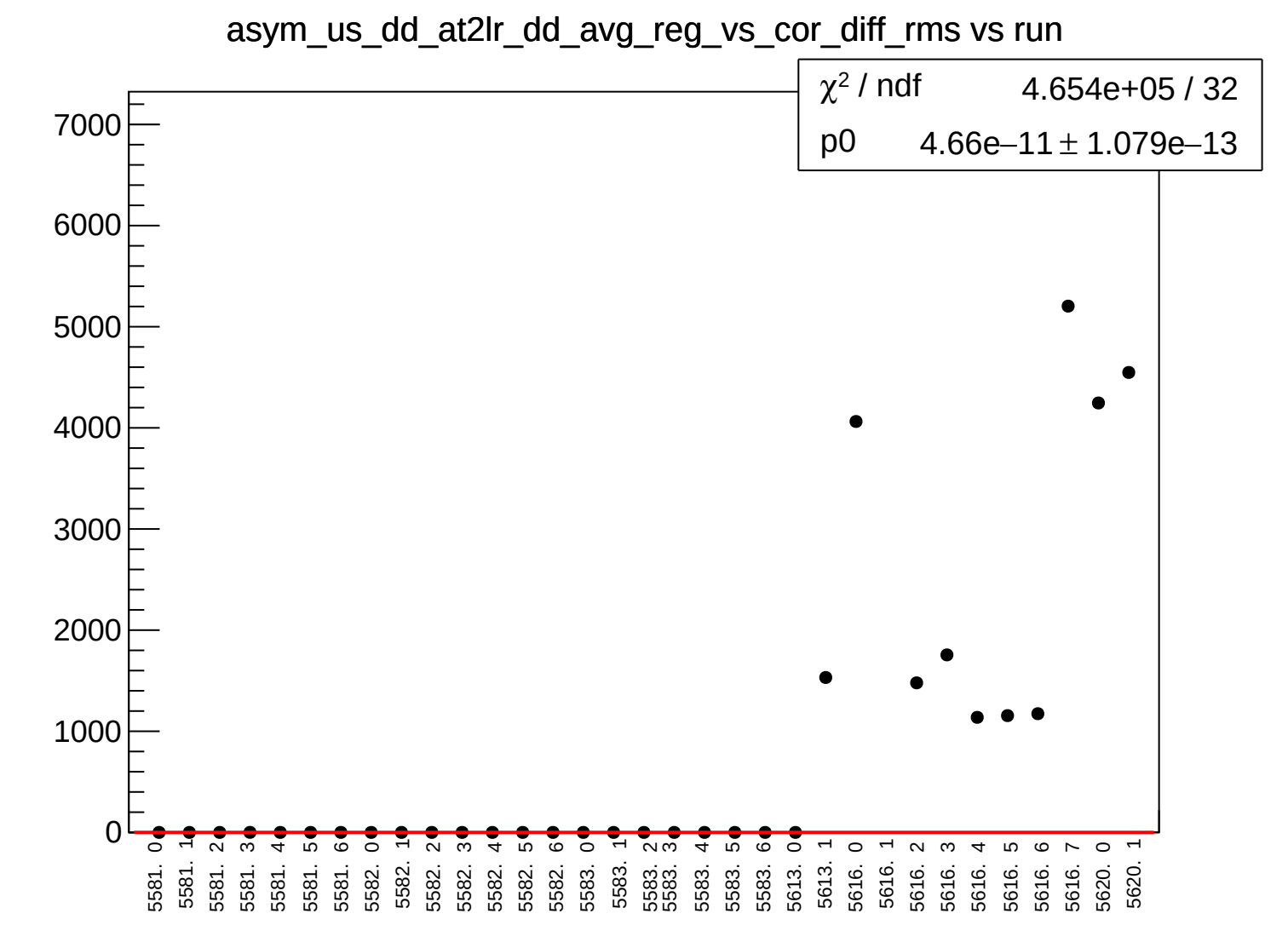

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 35.26 / 32
p0 −4864 ± 4011
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −304.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.001396
Std Dev 1.034
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

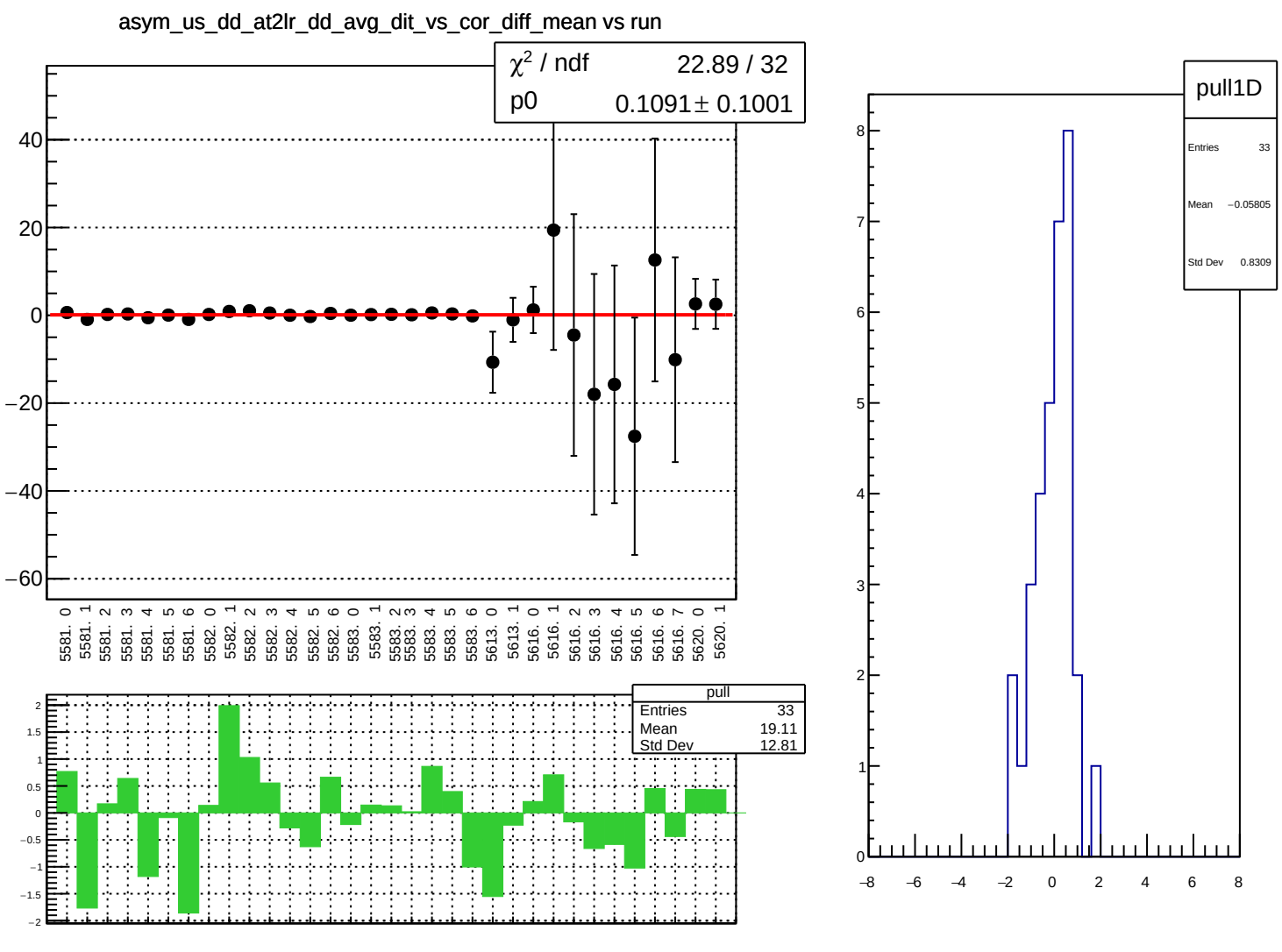

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5710 / 32
p0 2280 ± 2.836
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

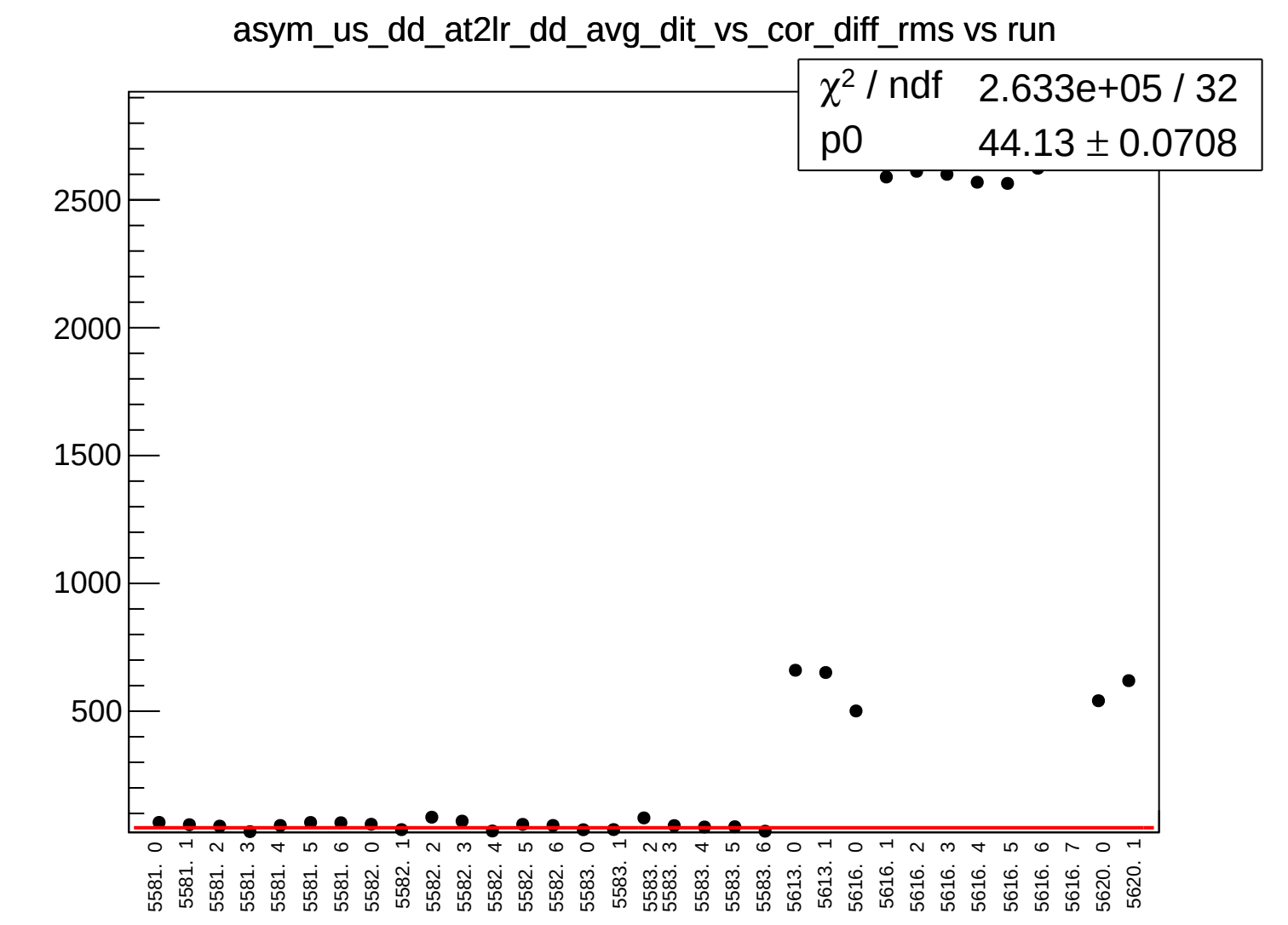

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 30.83 / 24
p0 4718 ± 4947
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 4
5616. 5
5616. 6
pull
Entries 25
Mean −34.35
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 25
Mean 0.05569
Std Dev 1.109
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

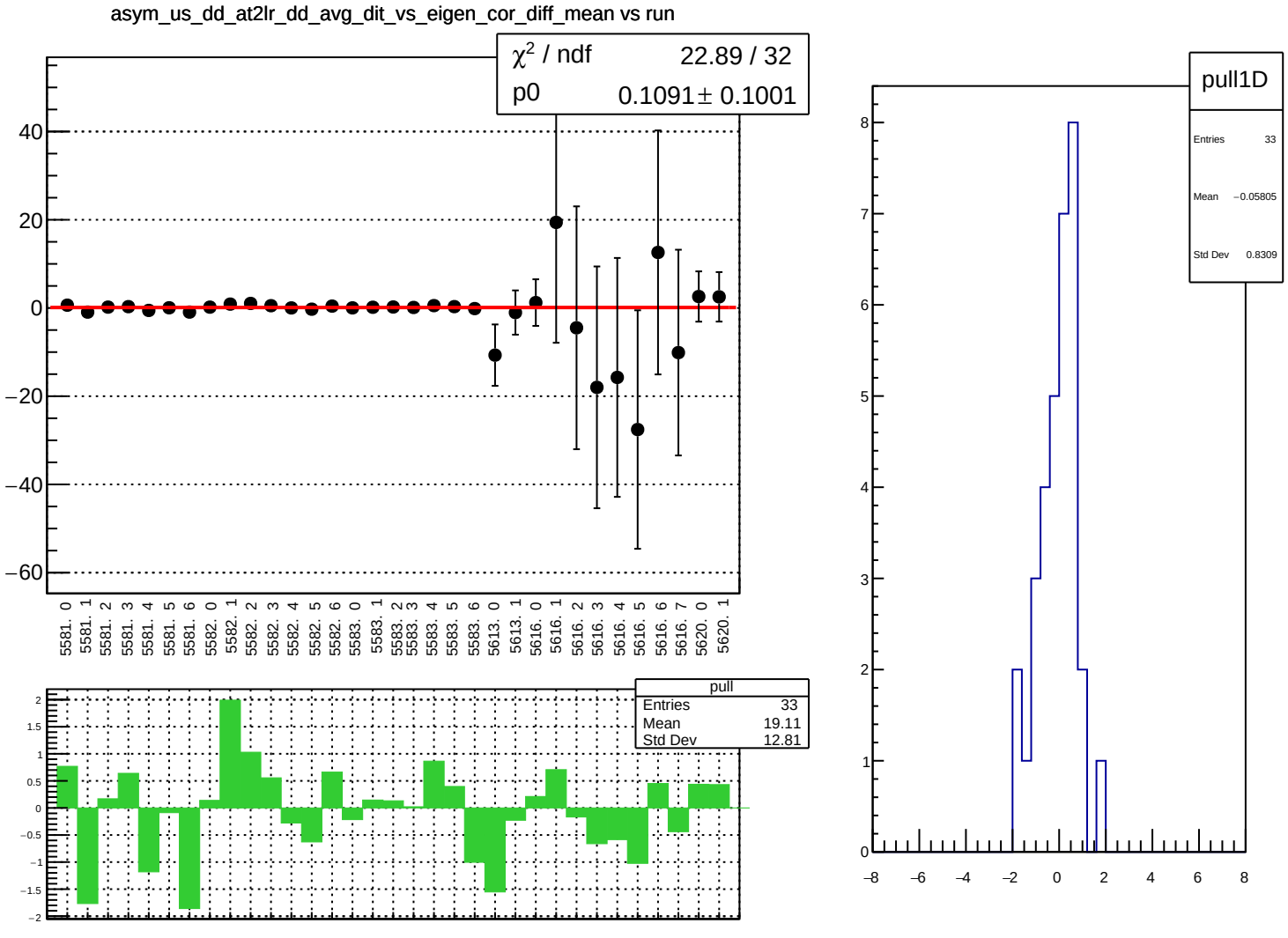

asym_us_dd_at2lr_dd_avg_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 2.053e+05 / 32
p0 2337 ± 3.497
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

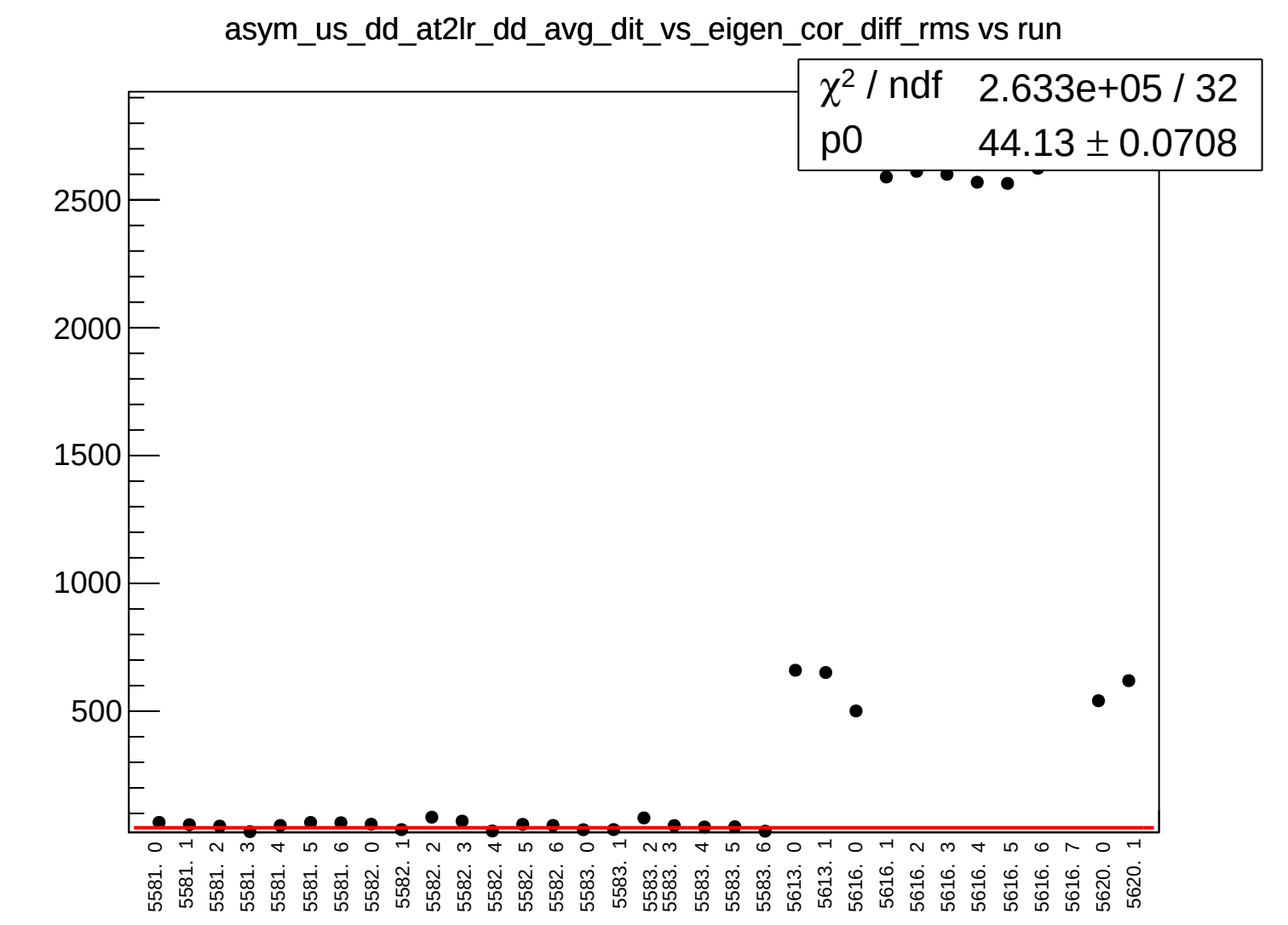

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 15.09 / 32
p0 −1.216e−13 ± 1.526e−13
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 4.479
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.03133
Std Dev 0.6755
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

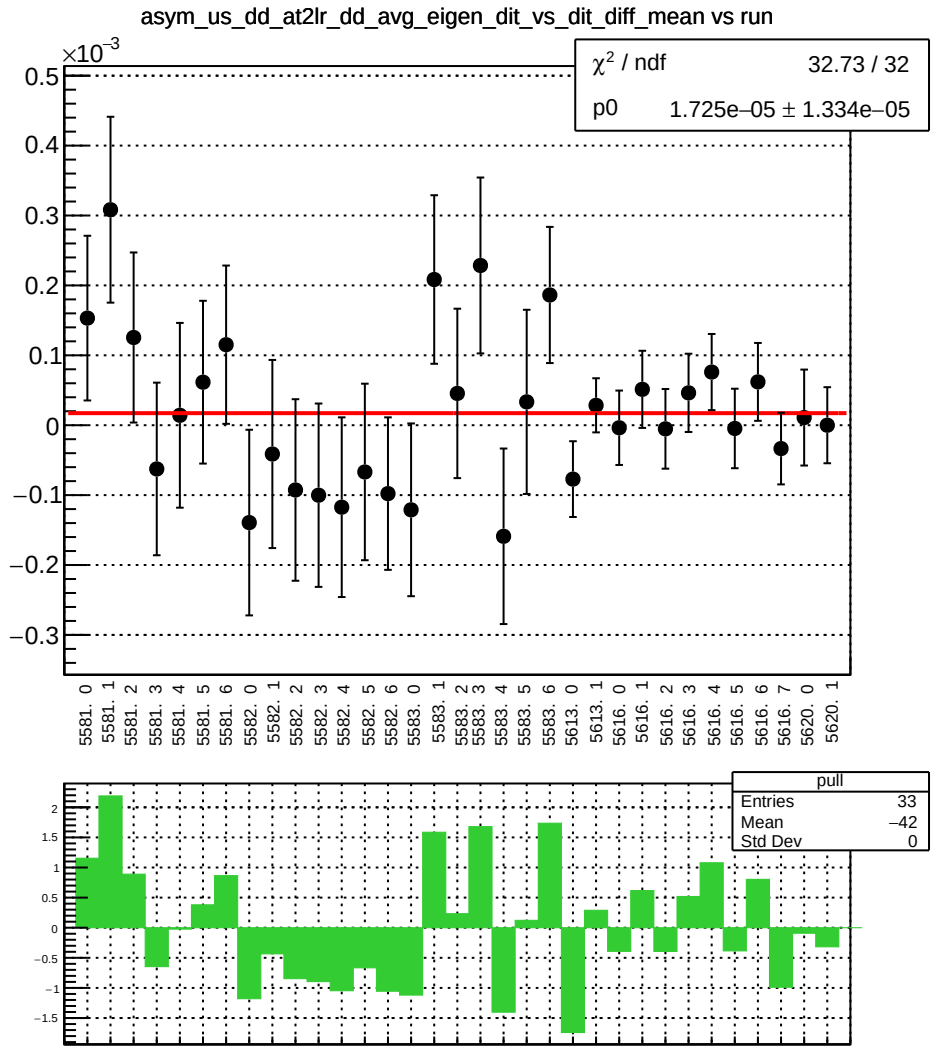

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.654e+05 / 32
p0 4.66e−11 ± 1.079e−13
7000
6000
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

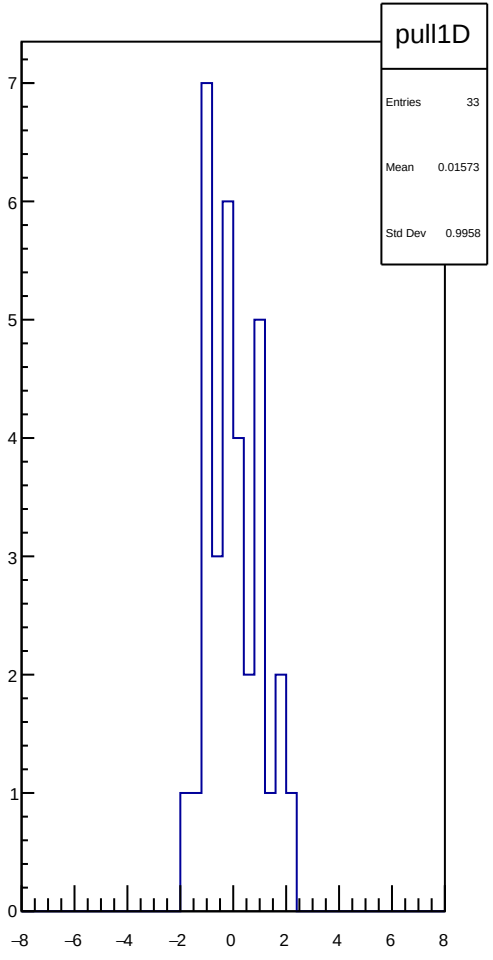

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 22.89 / 32
p0 0.1091± 0.1001
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.11
Std Dev 12.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.05805
Std Dev 0.8309
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

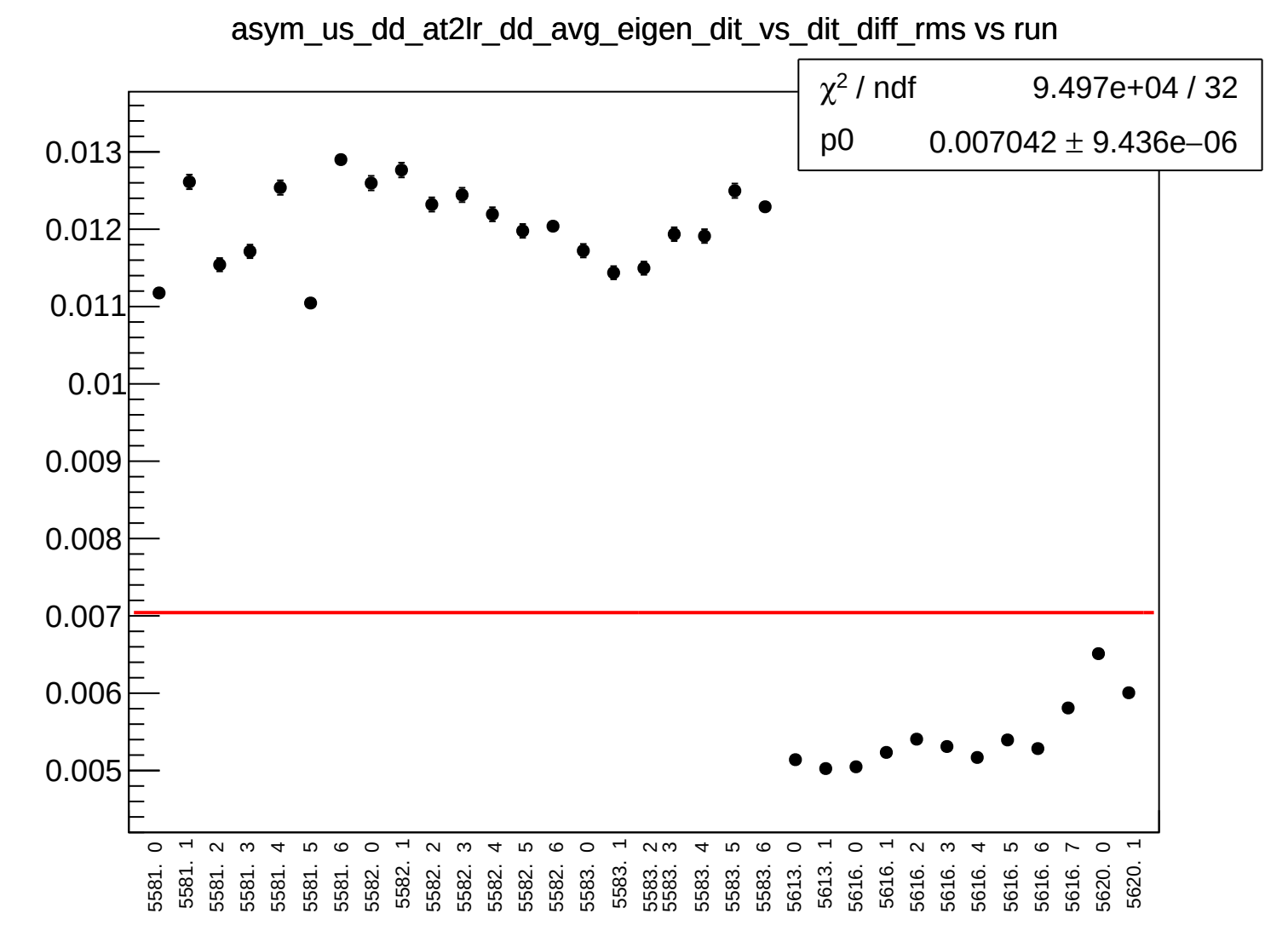

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.633e+05 / 32
p0 44.13 ± 0.0708
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

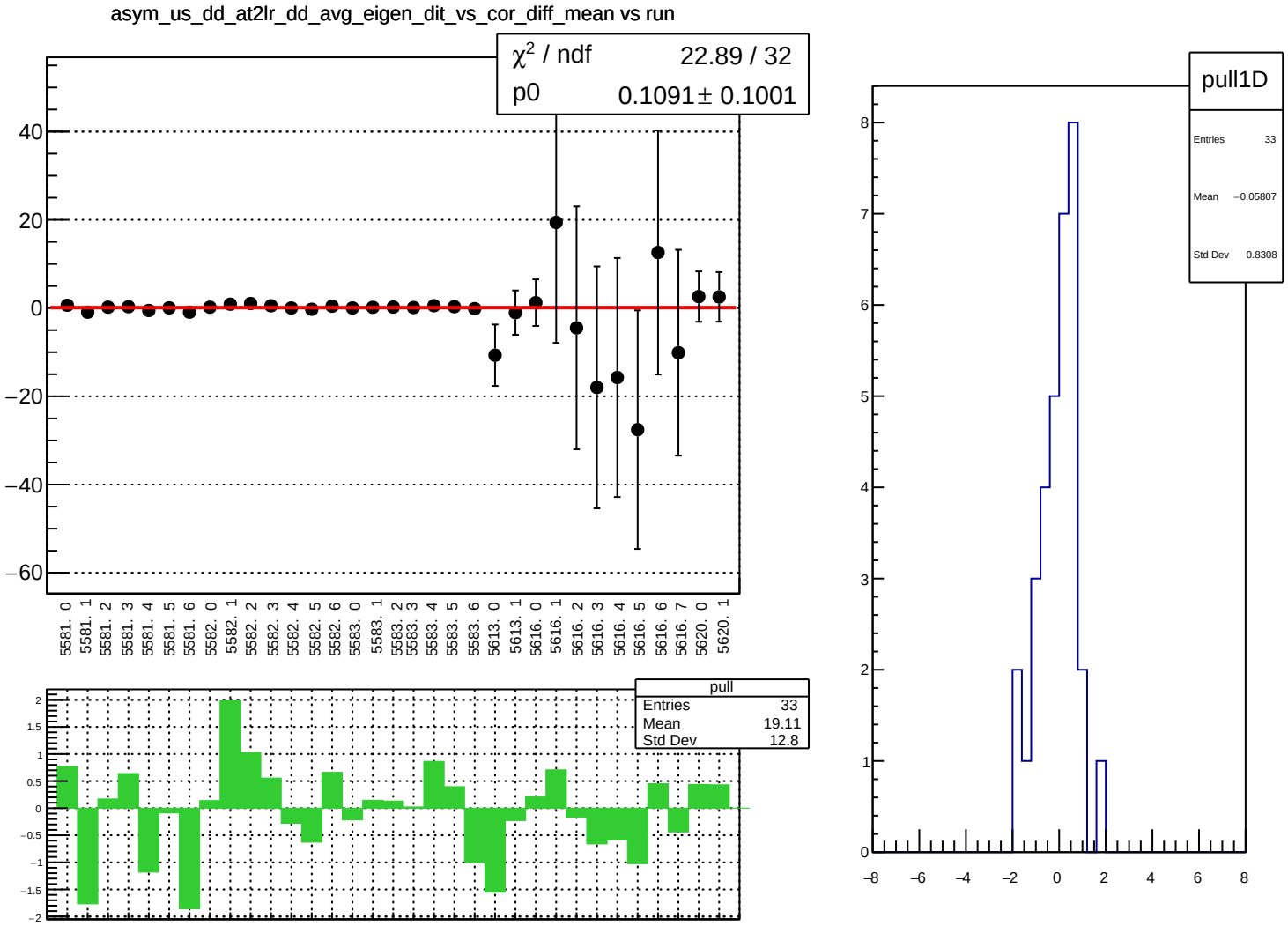

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.89 / 32
p0 0.1091 ± 0.1001
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.11
Std Dev 12.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.05805
Std Dev 0.8309
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

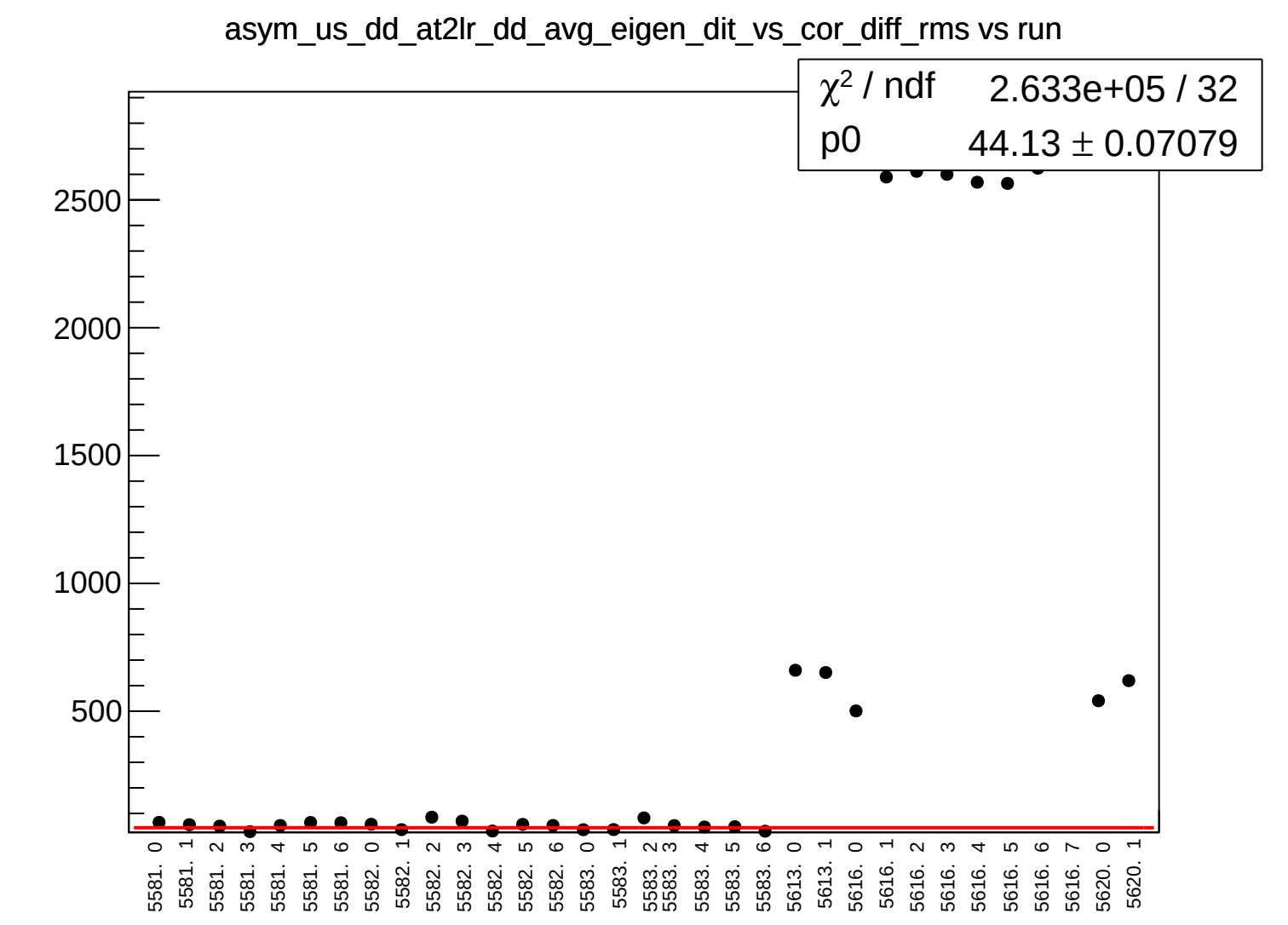

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.633e+05 / 32
p0 44.13 ± 0.0708
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

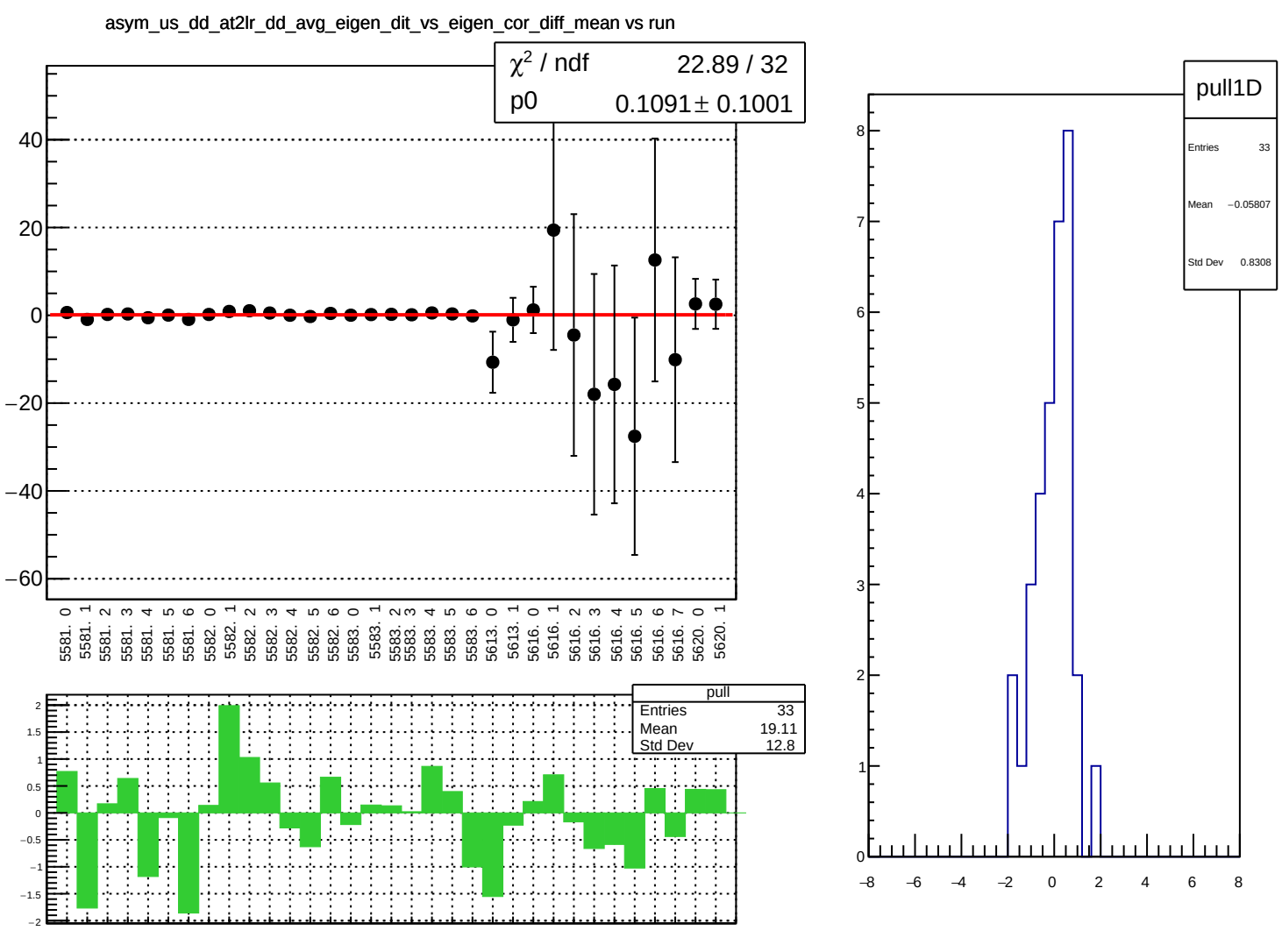

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.73 / 32
p0 1.725e−05 ± 1.334e−05
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

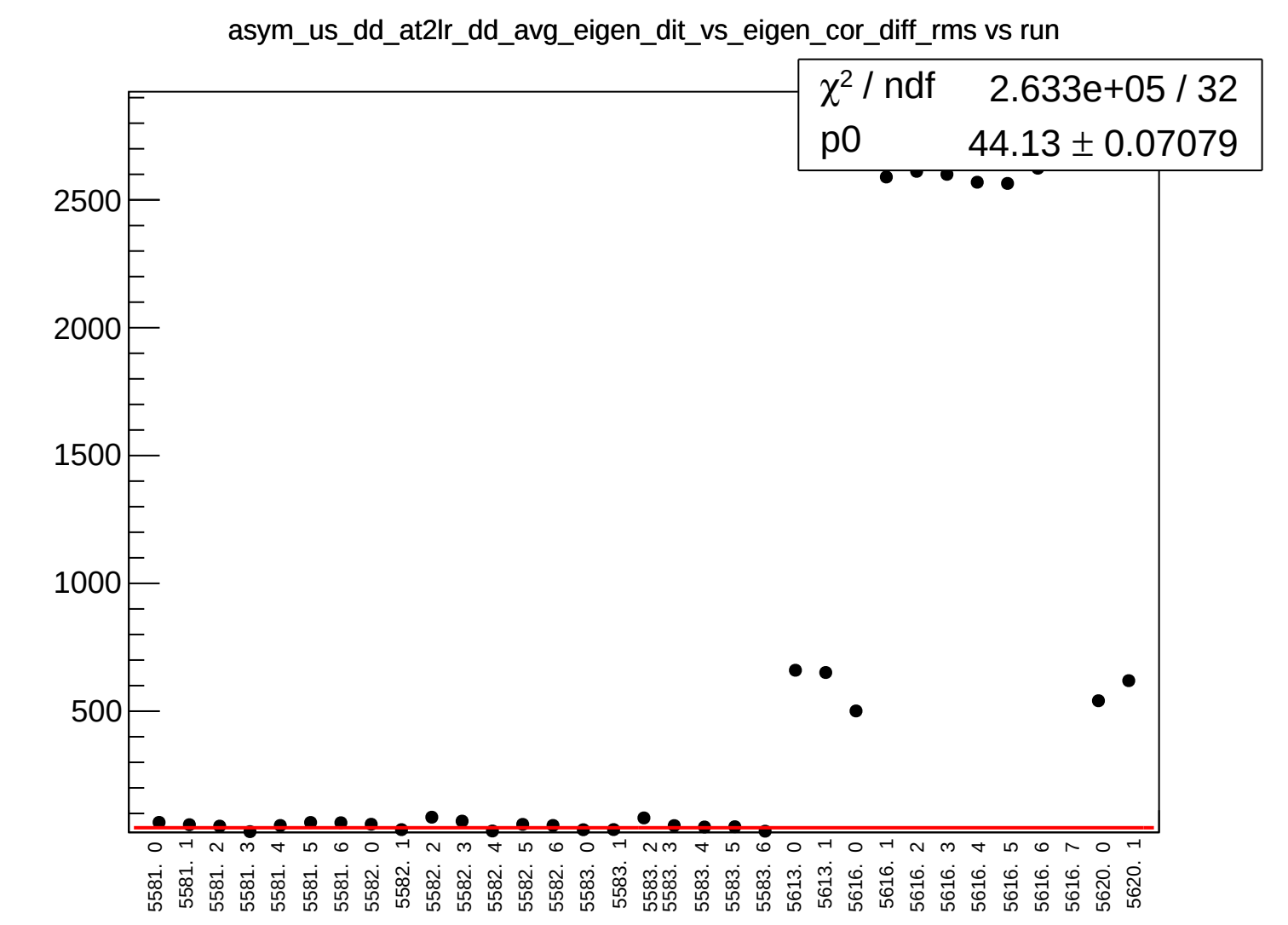

pull1D
Entries 33
Mean 0.01573
Std Dev 0.9958
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

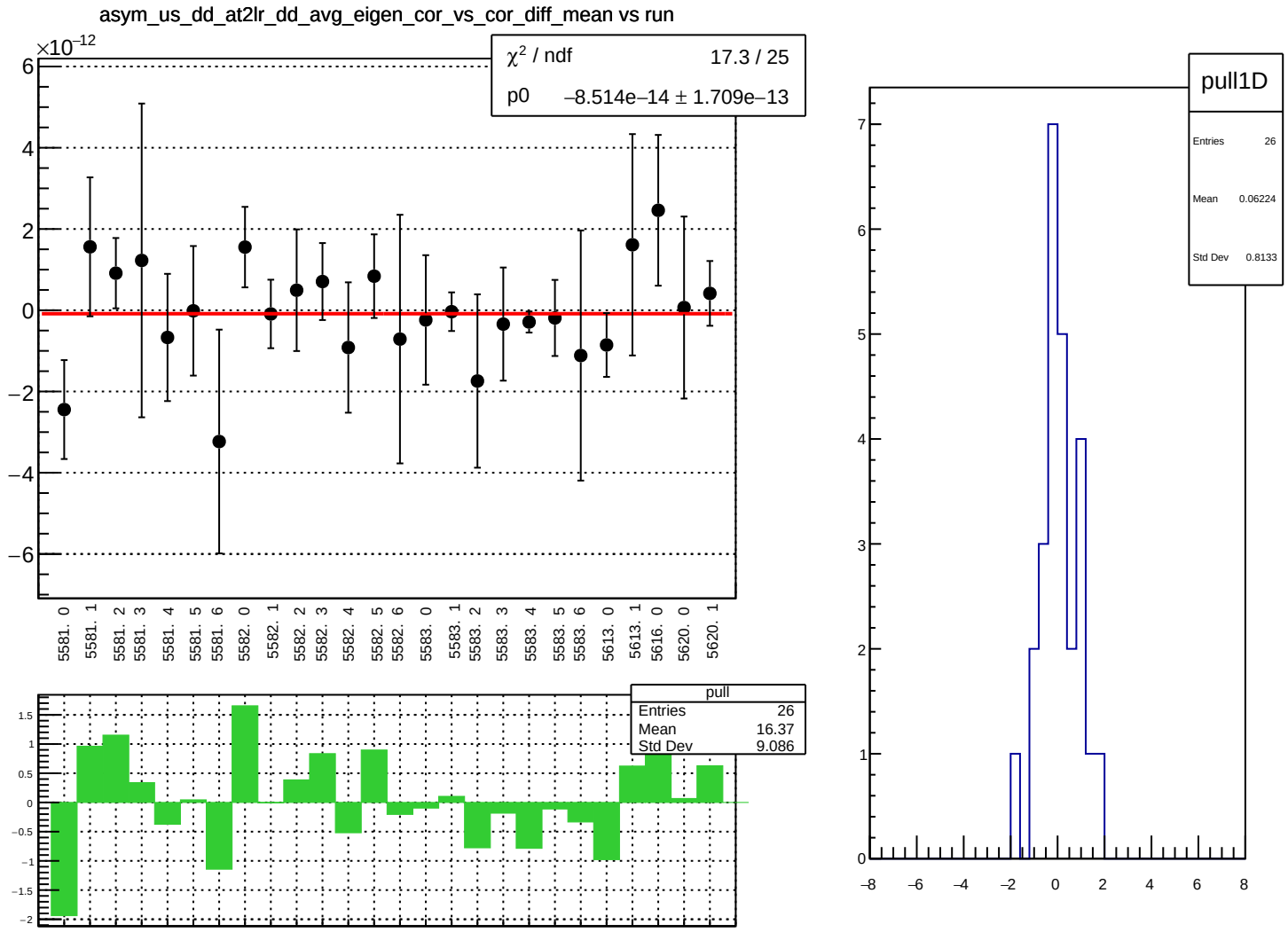

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.497e+04 / 32
p0 0.007042 ± 9.436e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

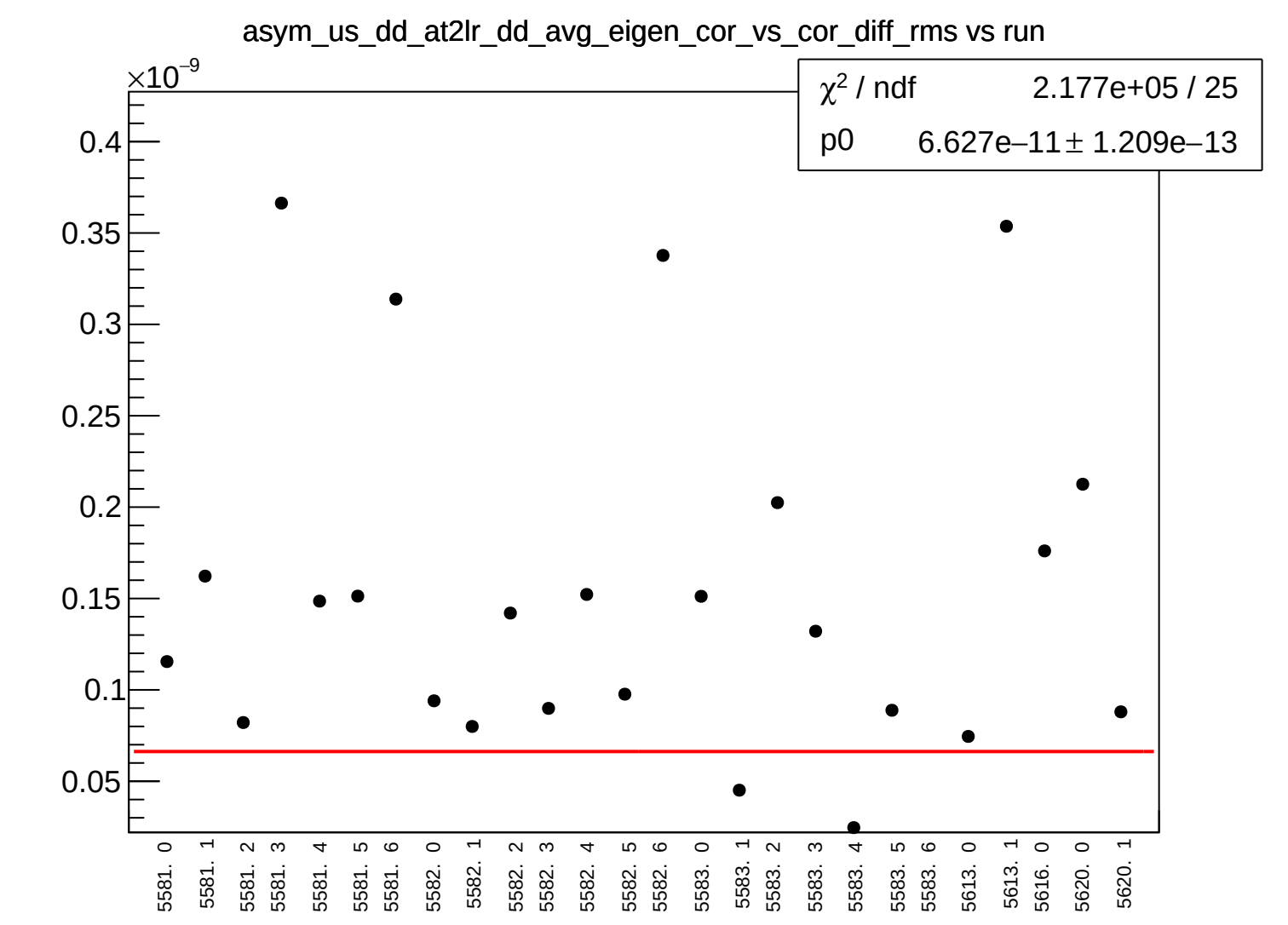

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.89 / 32
p0 0.1091 ± 0.1001
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.11
Std Dev 12.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.05807
Std Dev 0.8308
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

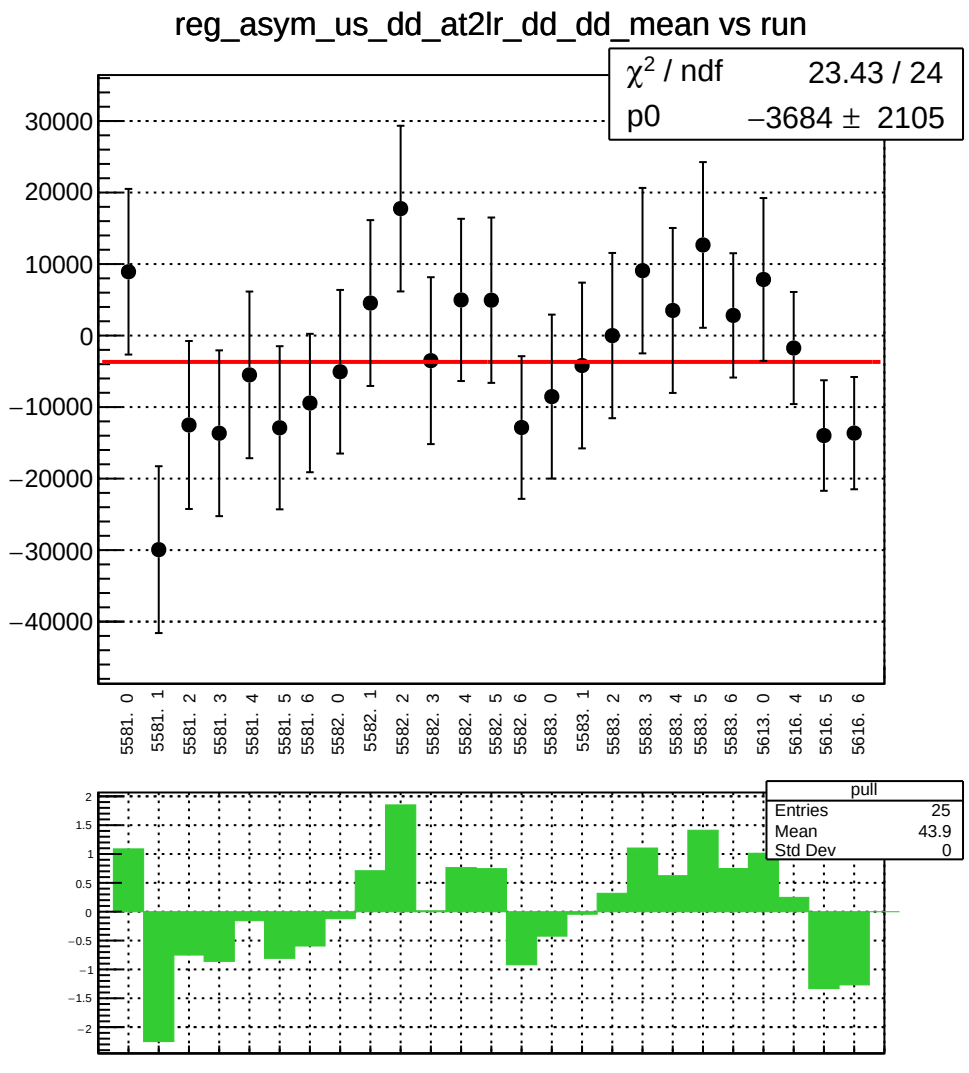

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.633e+05 / 32
p0 44.13 ± 0.07079
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

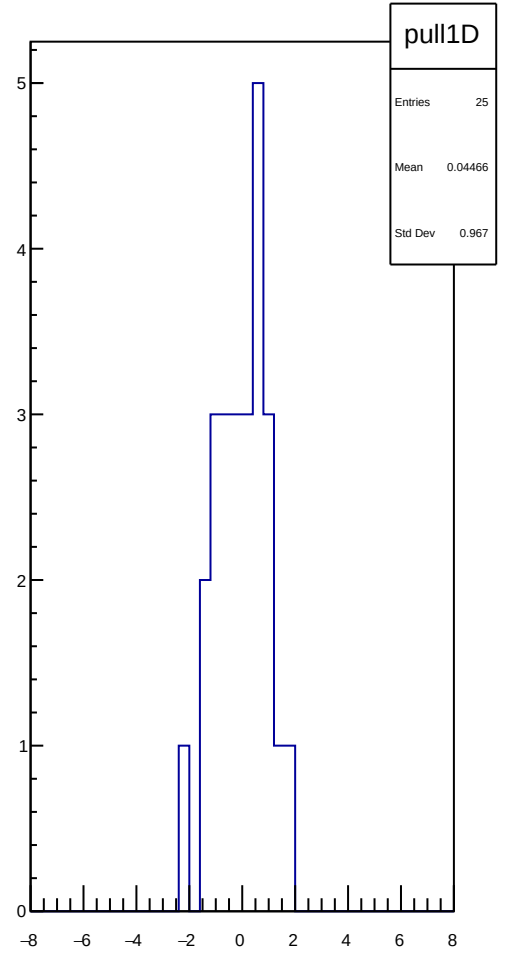

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.89 / 32
p0 0.1091± 0.1001
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.11
Std Dev 12.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.05807
Std Dev 0.8308
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

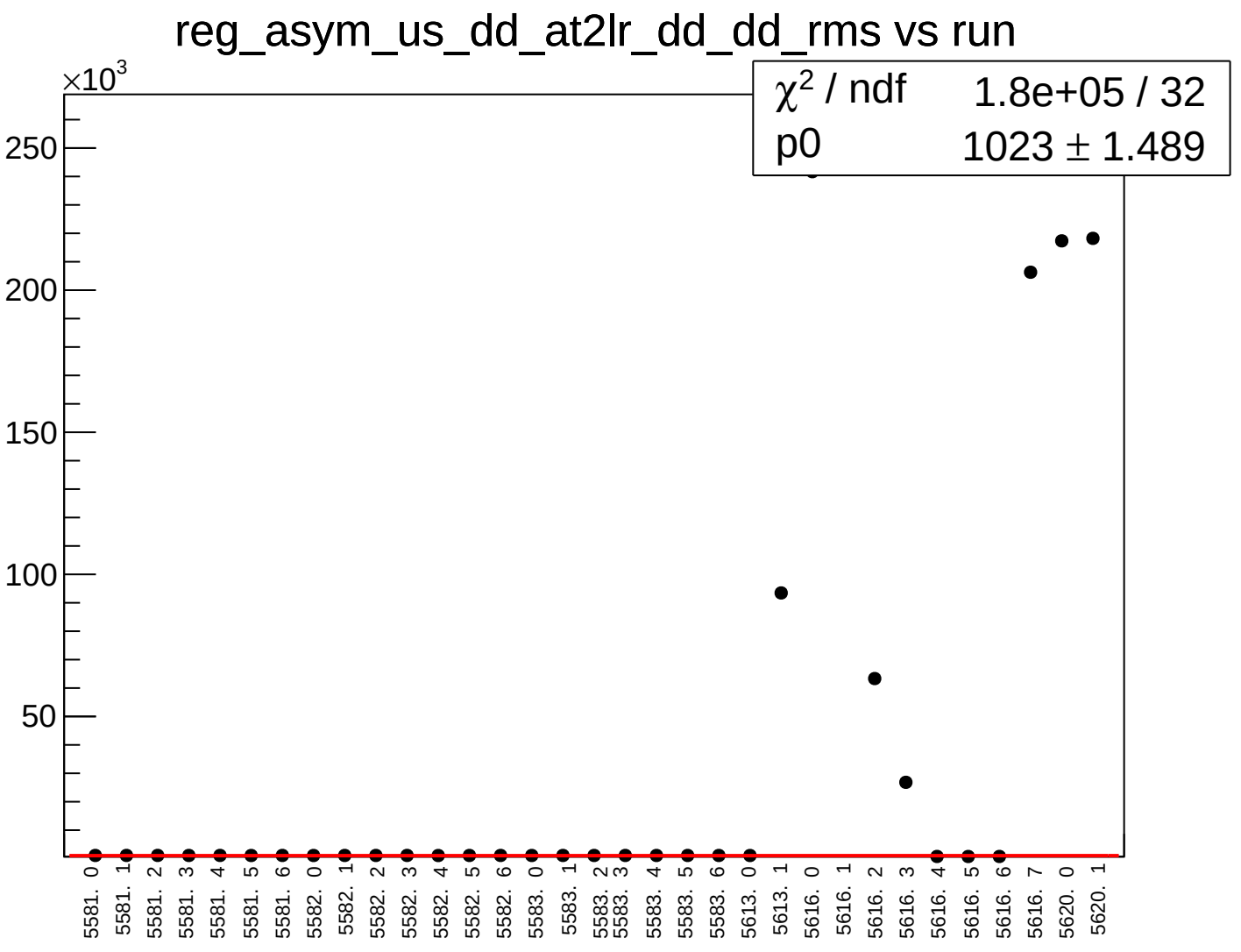

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.633e+05 / 32
p0 44.13 ± 0.07079
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

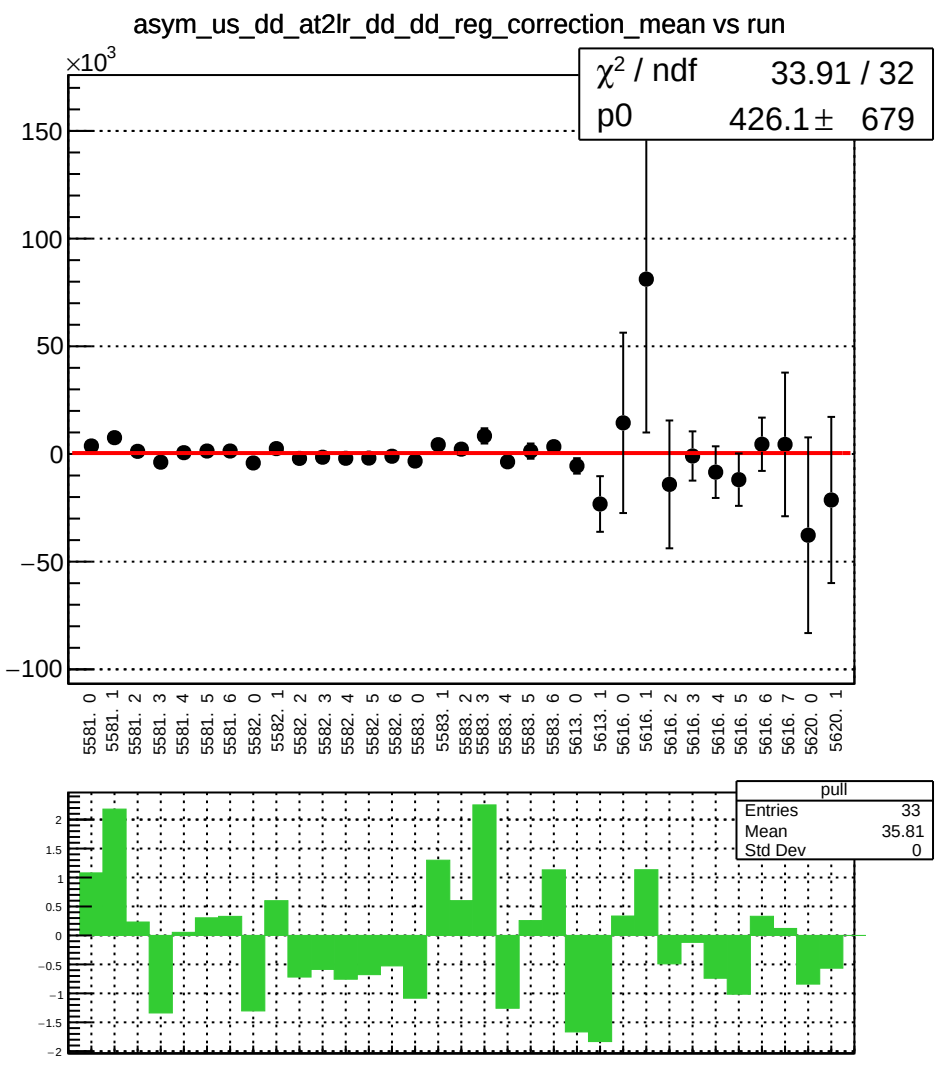

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 17.3 / 25
p0 −8.514e−14 ± 1.709e−13
6
4
2
0
−2
−4
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 16.37
Std Dev 9.086
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.06224
Std Dev 0.8133
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

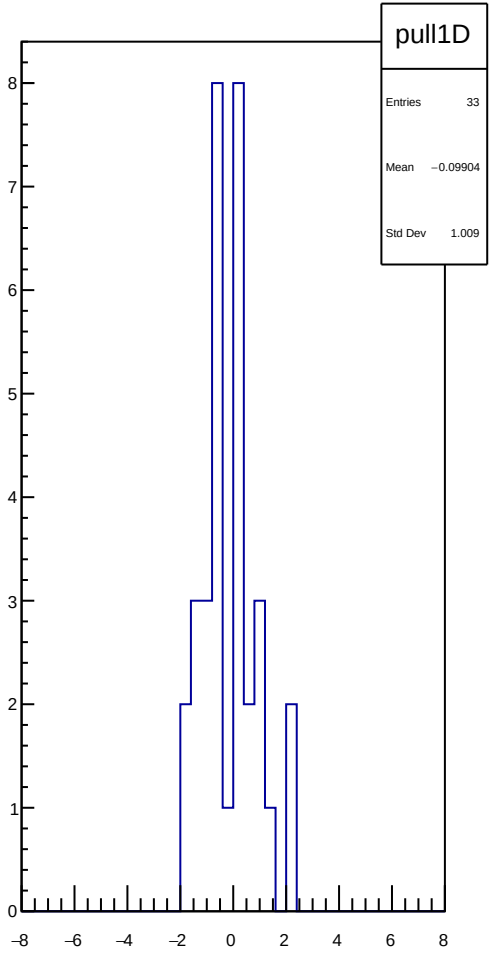

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.177e+05 / 25
p0 6.627e−11 ± 1.209e−13
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

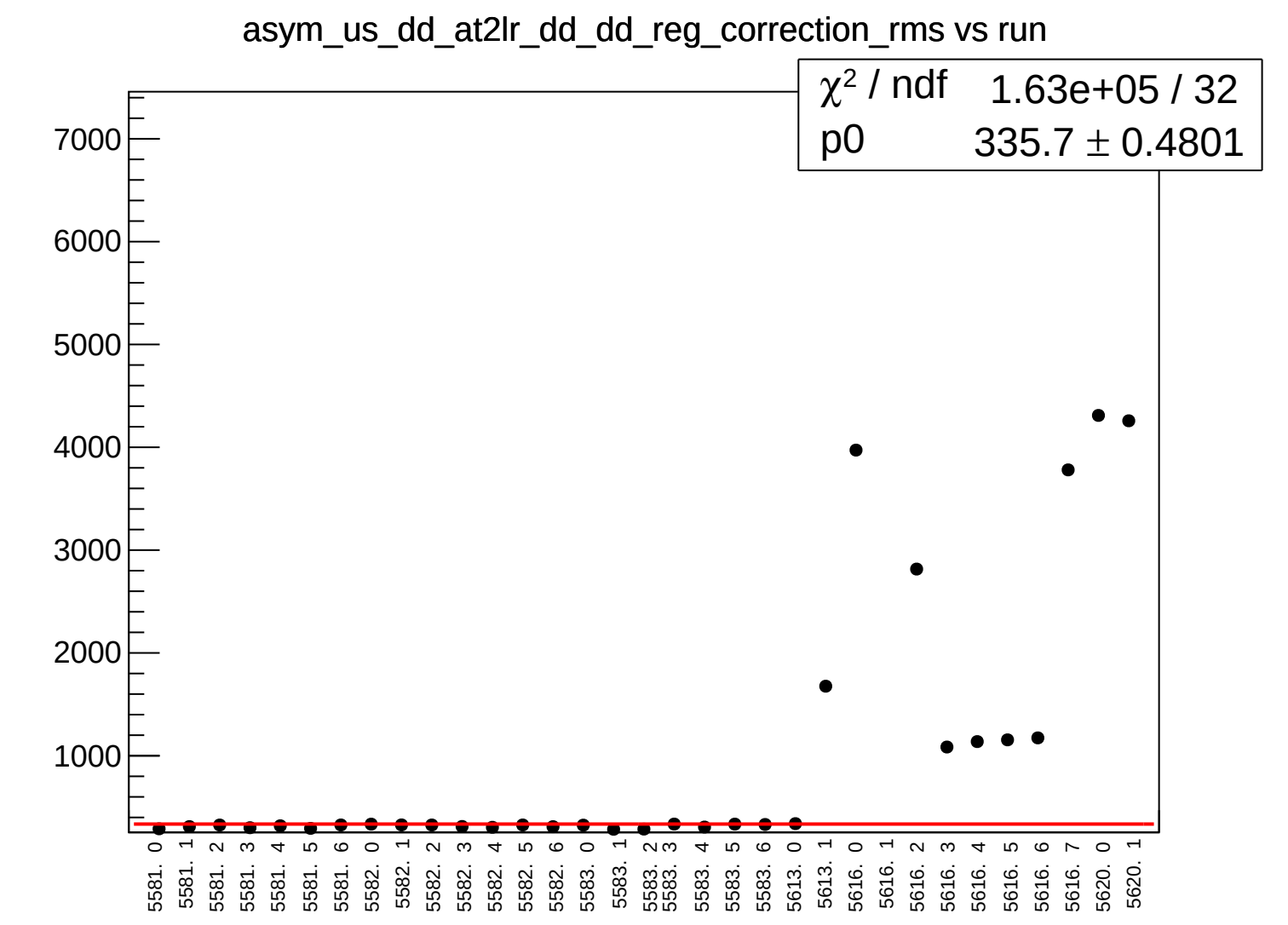

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 23.43 / 24
p0 −3684 ± 2105
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 4
5616. 5
5616. 6
pull
Entries 25
Mean 43.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

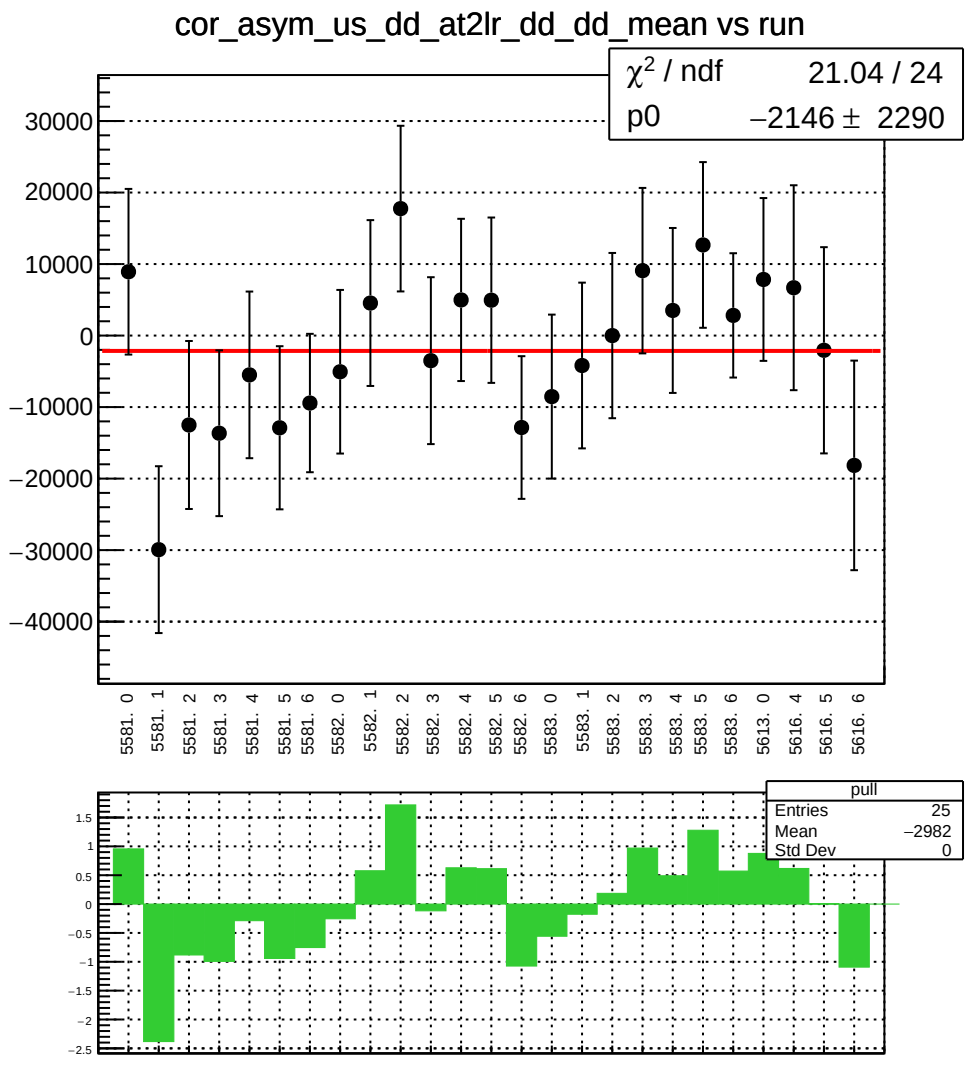

pull1D
Entries 25
Mean 0.04466
Std Dev 0.967
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

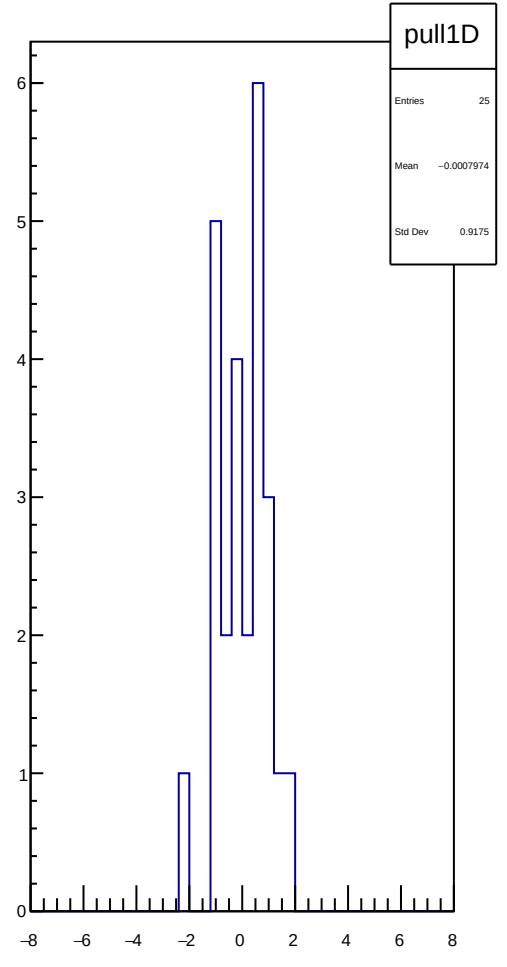

reg_asym_us_dd_at2lr_dd_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.8e+05 / 32
p0 1023 ± 1.489
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

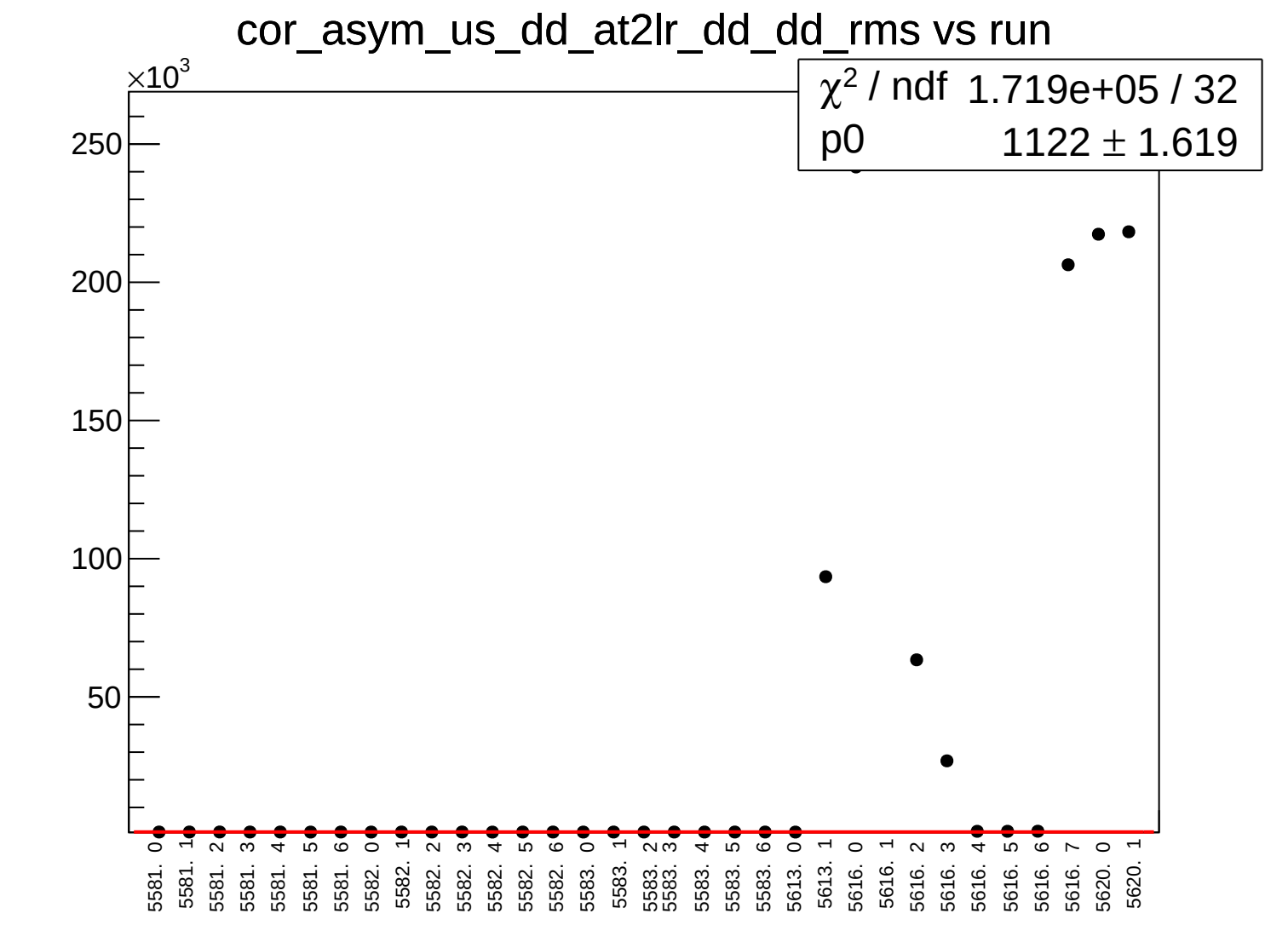

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 33.91 / 32
p0 426.1 ± 679
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

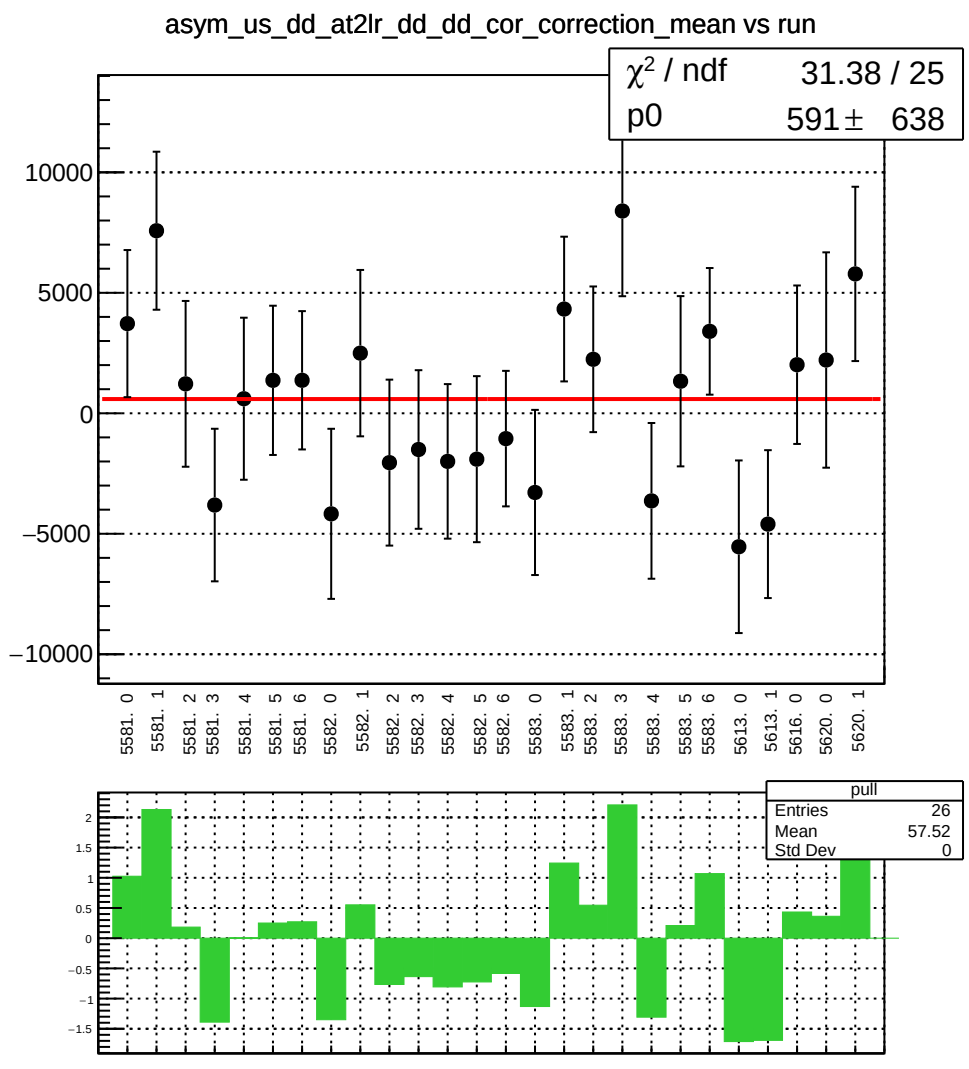

pull1D
Entries 33
Mean −0.09904
Std Dev 1.009
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

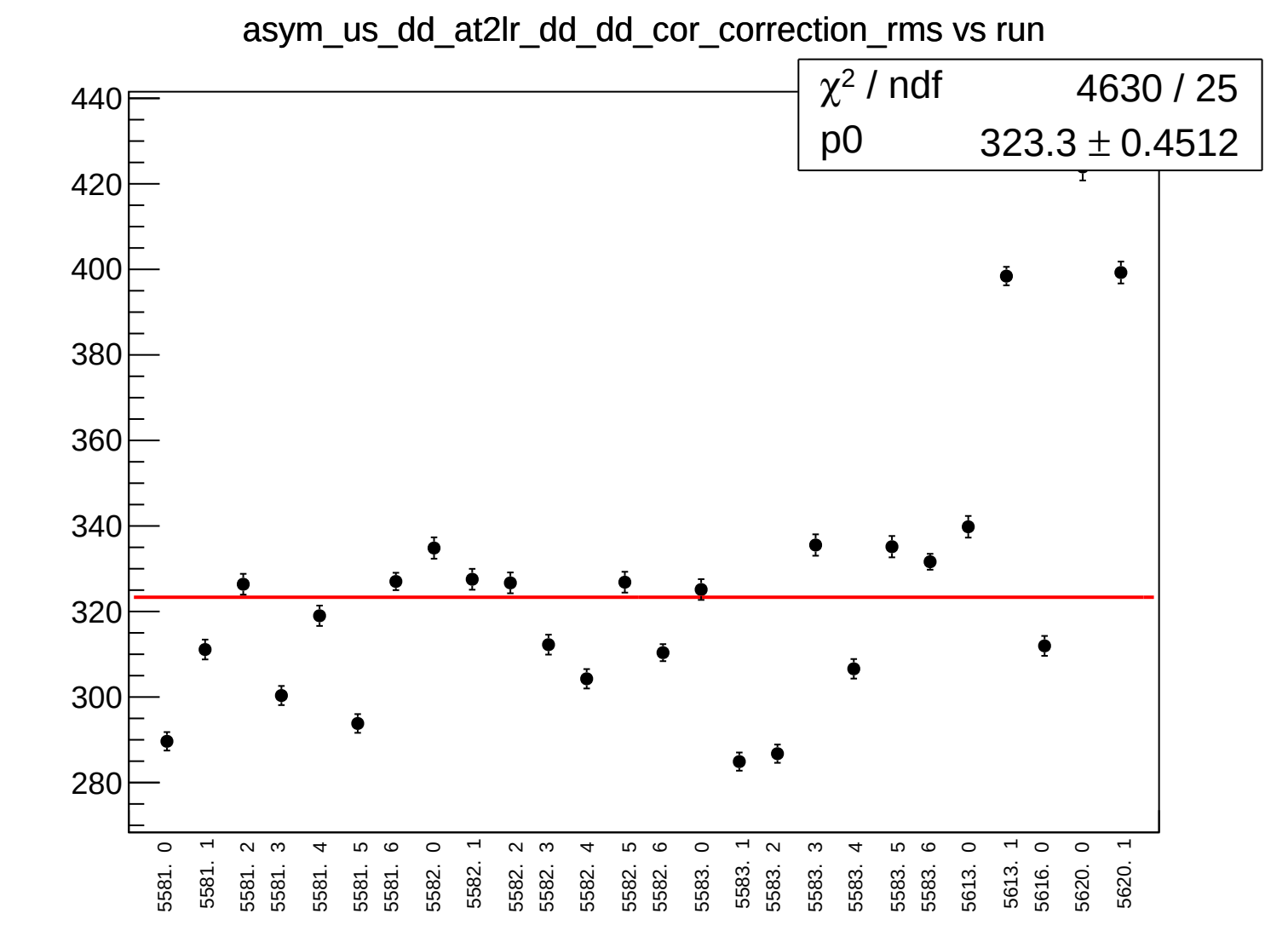

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.63e+05 / 32
p0 335.7 ± 0.4801
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

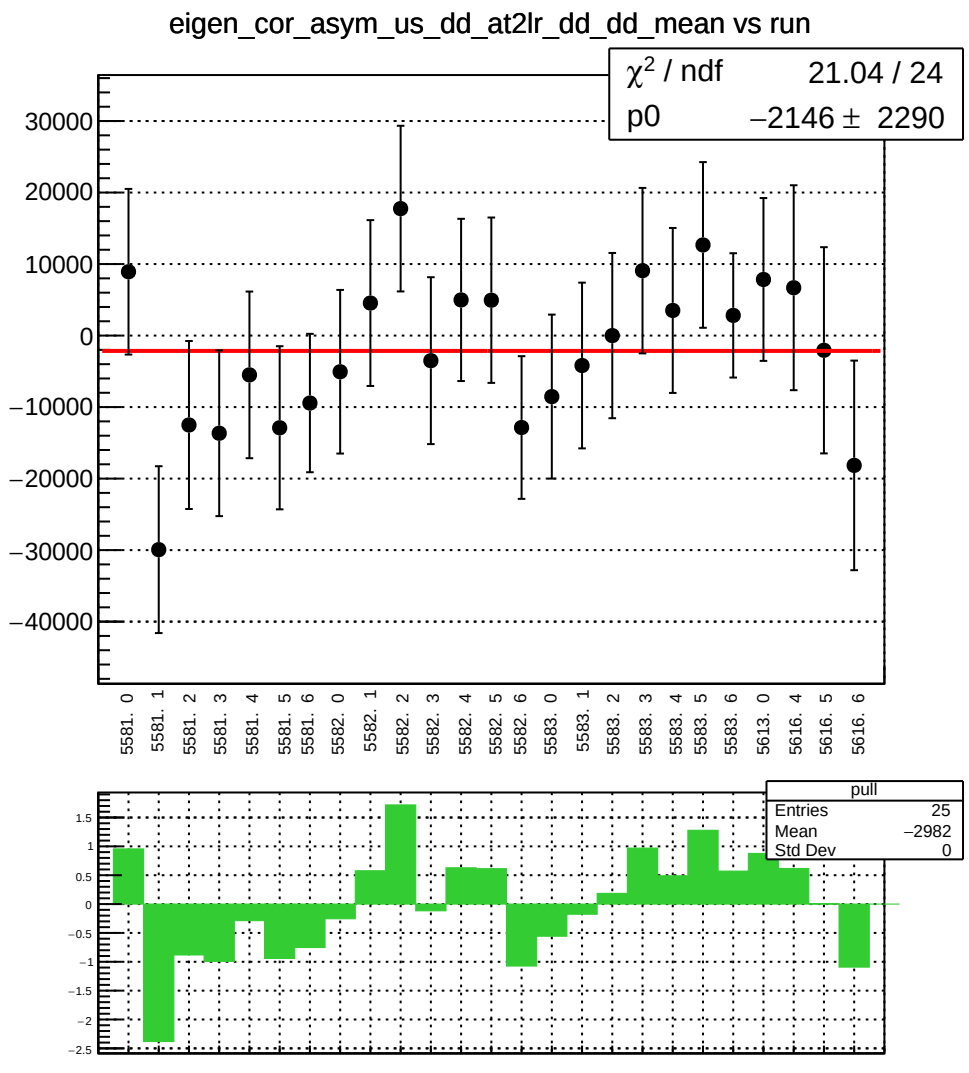

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 21.04 / 24
p0 −2146 ± 2290
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 4
5616. 5
5616. 6
pull
Entries 25
Mean −2982
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

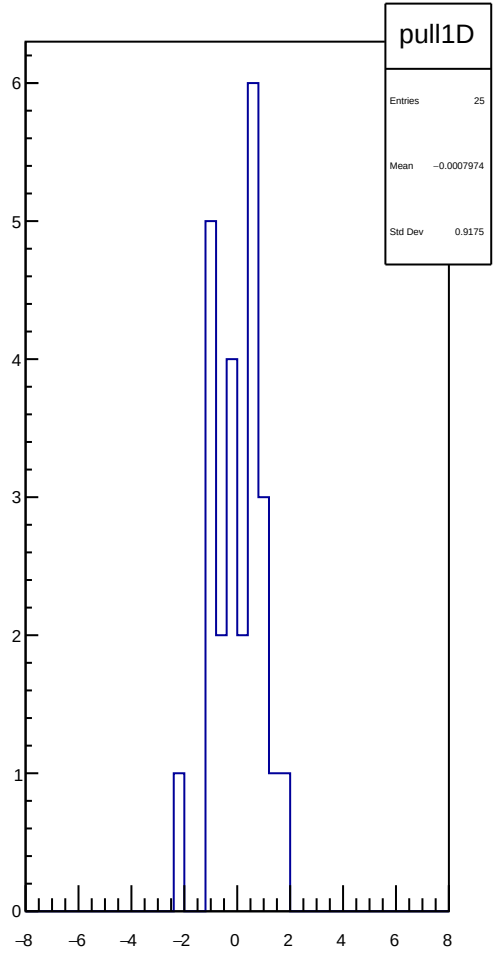

pull1D
Entries 25
Mean −0.0007974
Std Dev 0.9175
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

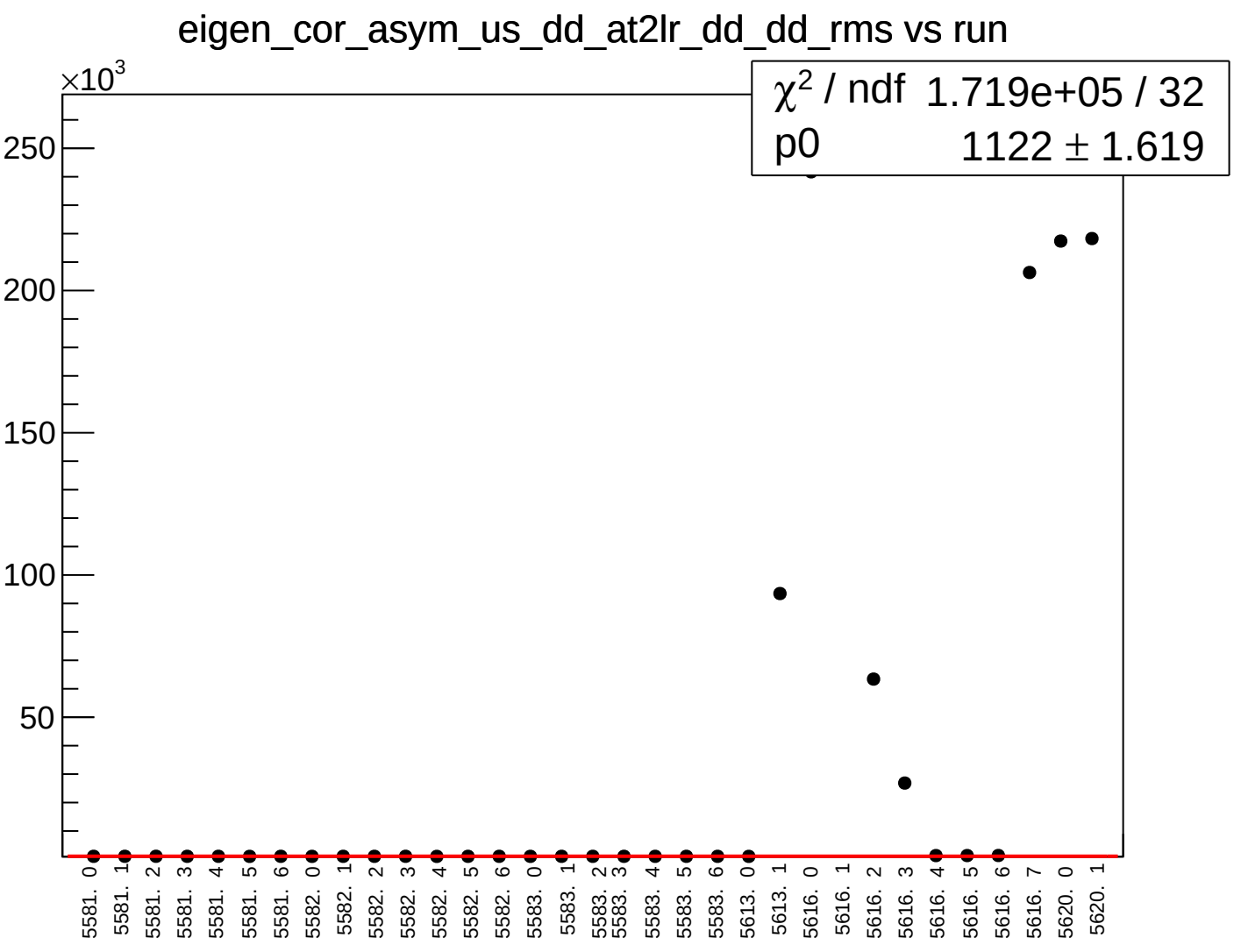

cor_asym_us_dd_at2lr_dd_dd_rms vs run
×10^3
χ^2 / ndf 1.719e+05 / 32
p0 1122 ± 1.619
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

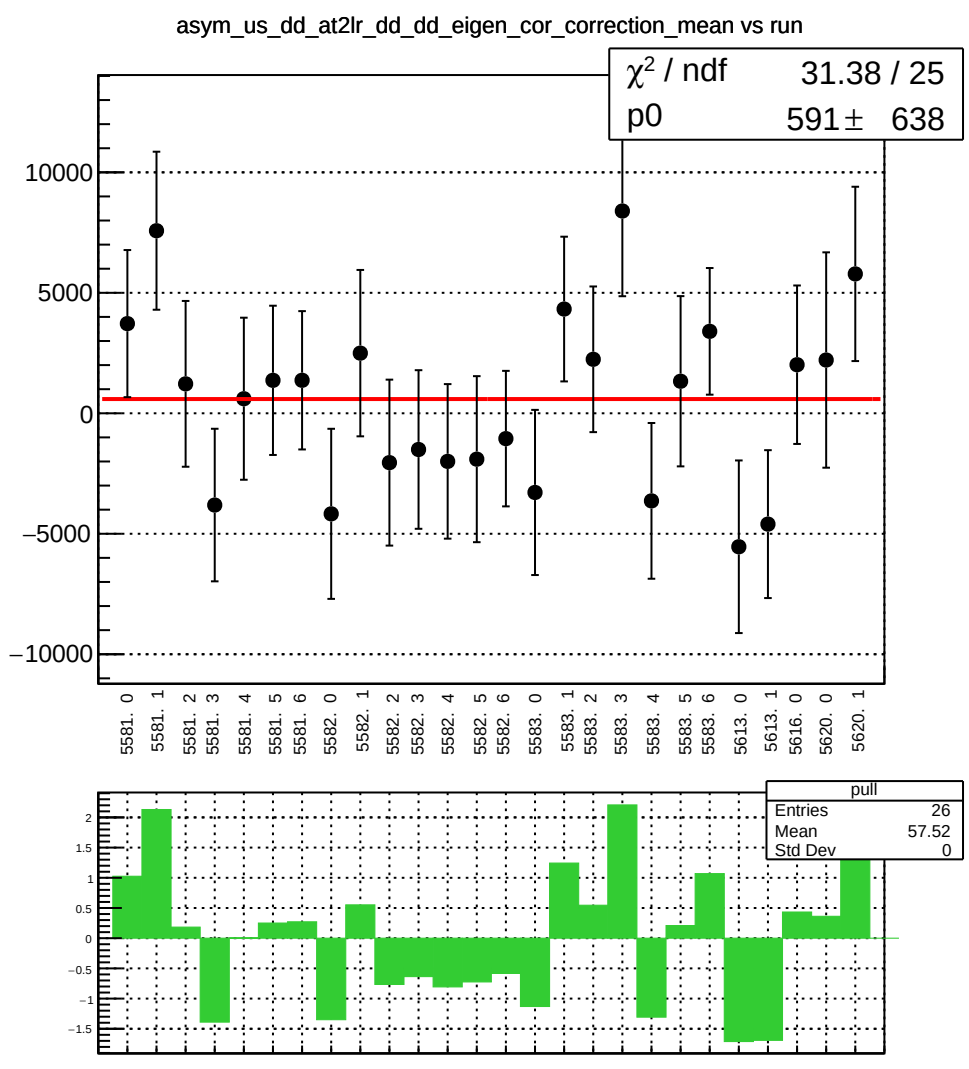

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 31.38 / 25
p0 591 ± 638
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 57.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.006687
Std Dev 1.099
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

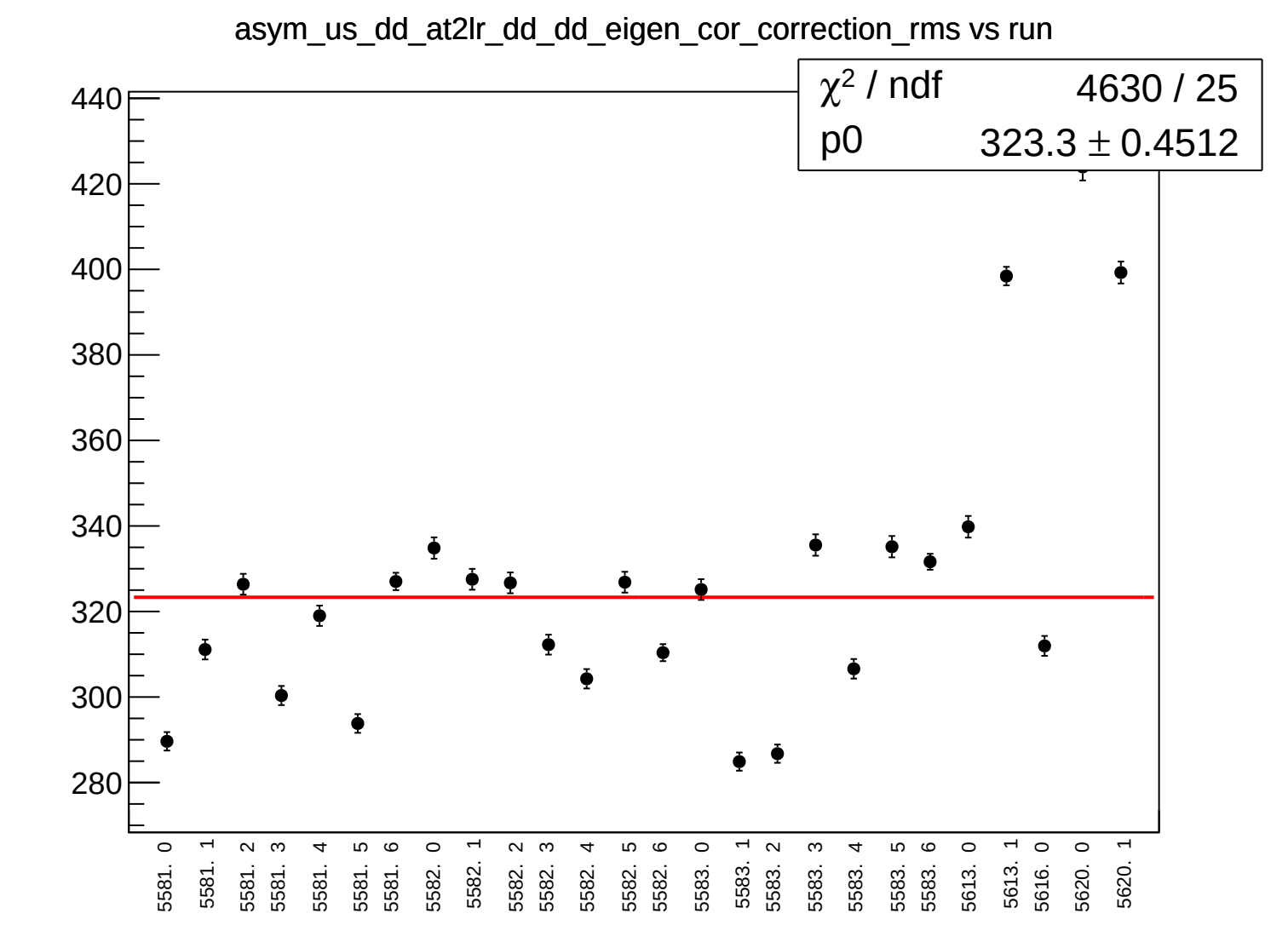

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 4630 / 25
p0 323.3 ± 0.4512
440
420
400
380
360
340
320
300
280
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

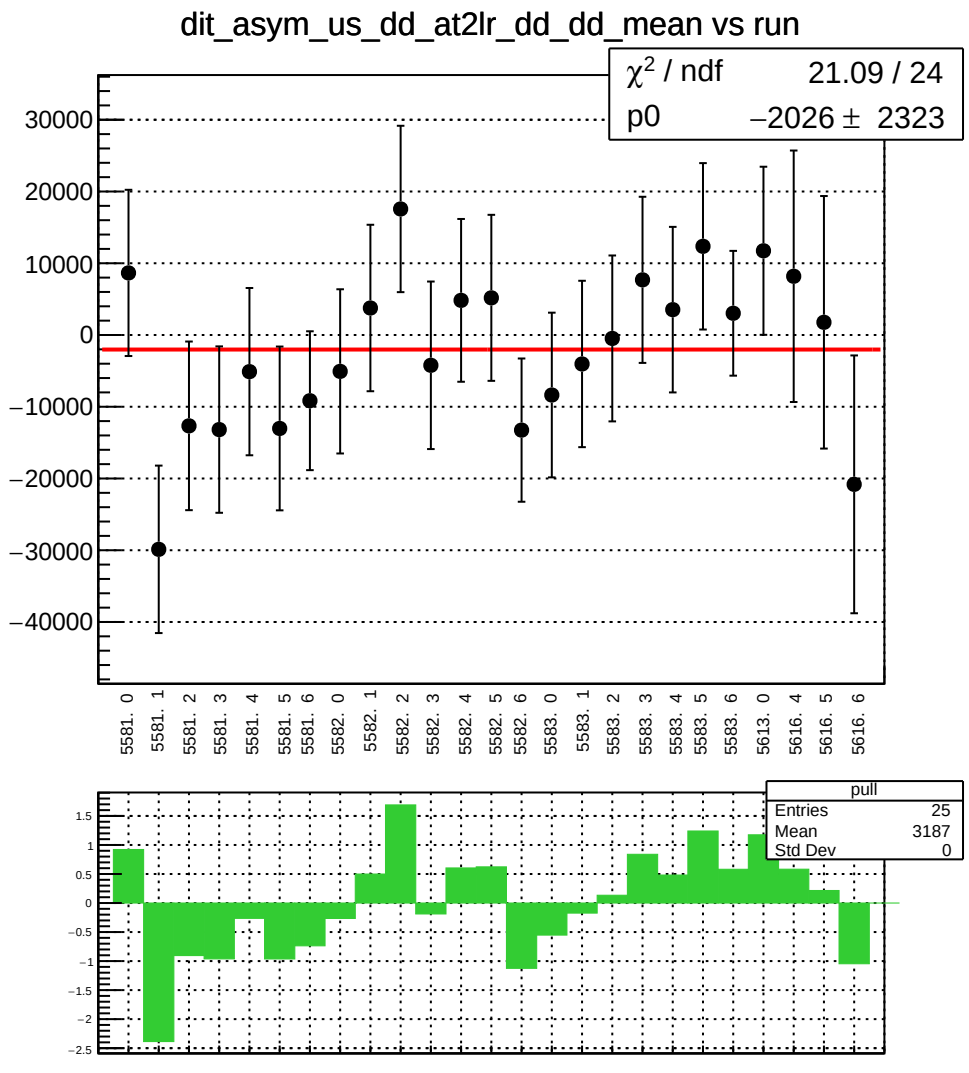

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 21.04 / 24
p0 −2146 ± 2290
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 4
5616. 5
5616. 6
pull
Entries 25
Mean −2982
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

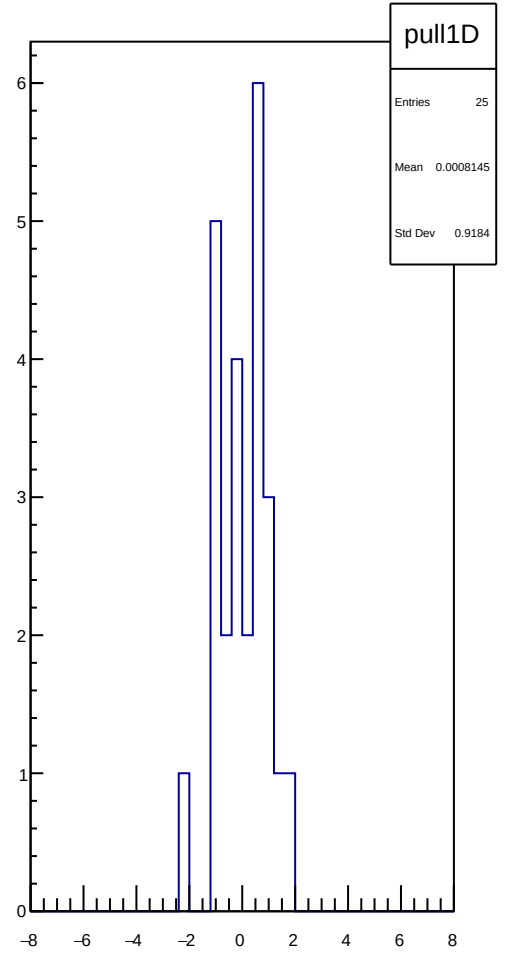

pull1D
Entries 25
Mean −0.0007974
Std Dev 0.9175
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

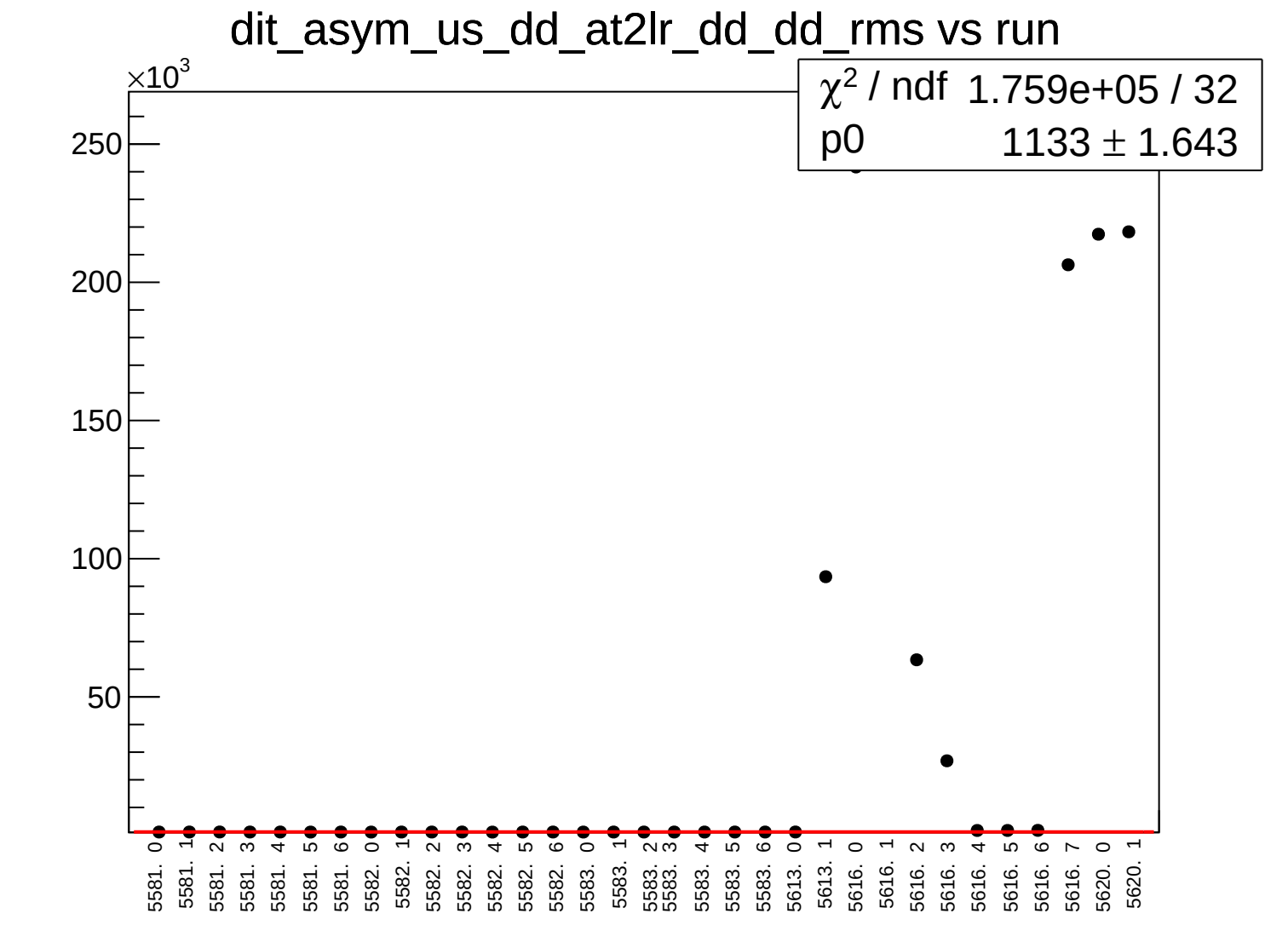

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.719e+05 / 32
p0 1122 ± 1.619
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

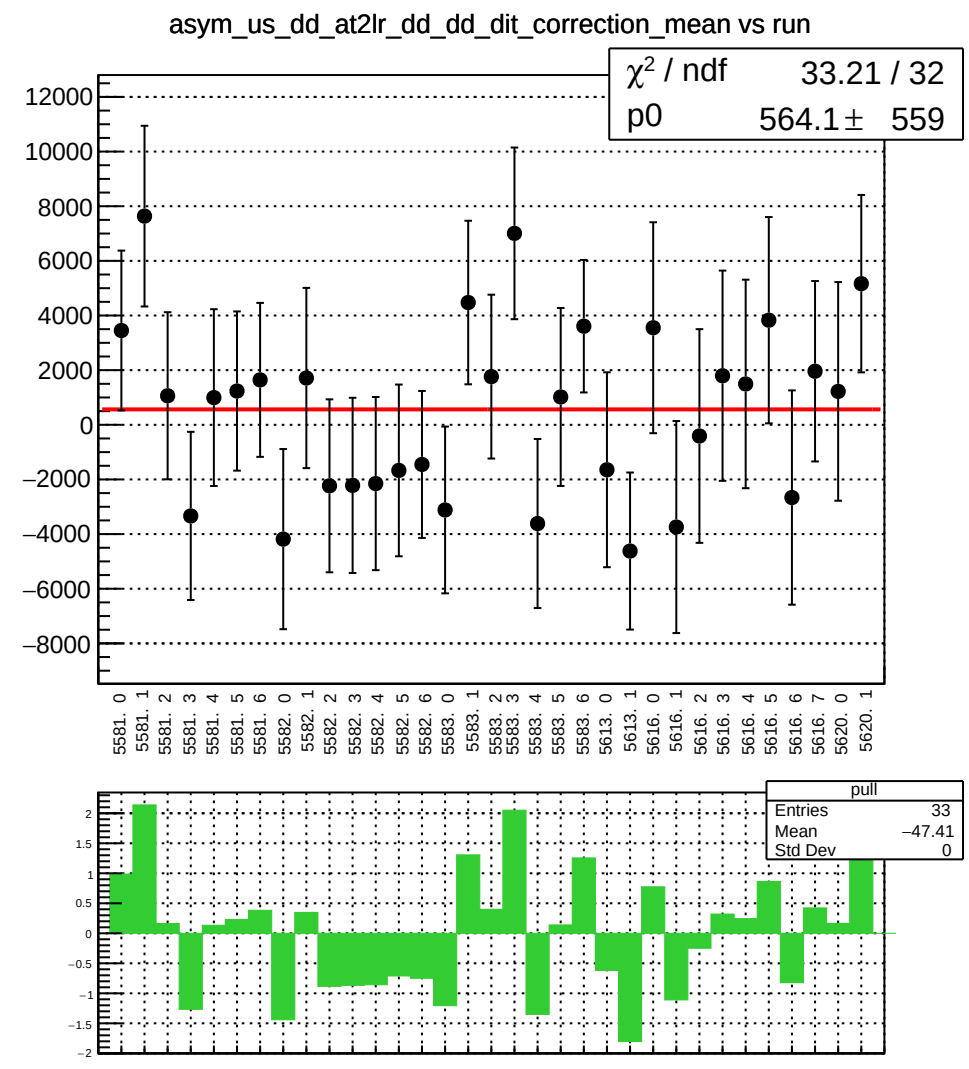

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 31.38 / 25
p0 591 ± 638
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 57.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.006687
Std Dev 1.099
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

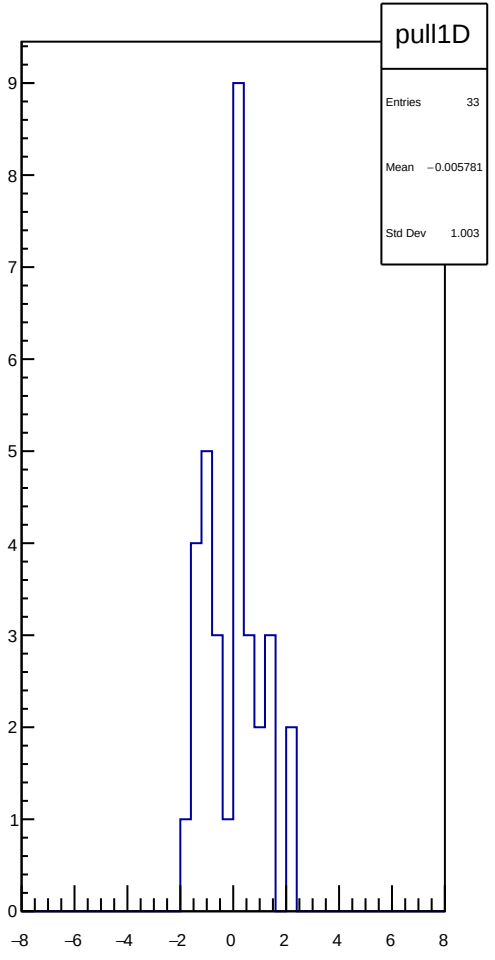

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4630 / 25
p0 323.3 ± 0.4512
440
420
400
380
360
340
320
300
280
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

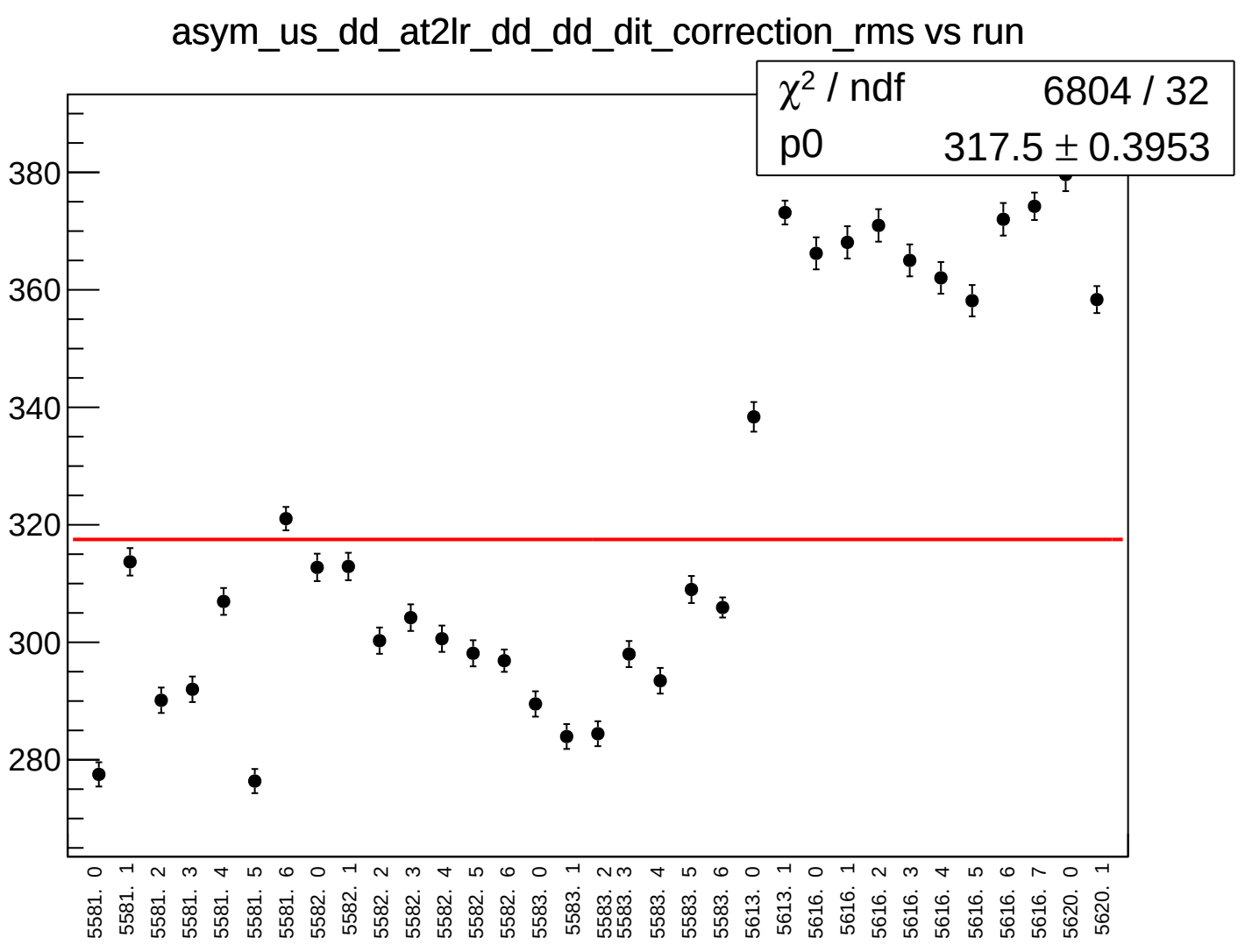

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 21.09 / 24
p0 −2026 ± 2323
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 4
5616. 5
5616. 6
pull
Entries 25
Mean 3187
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

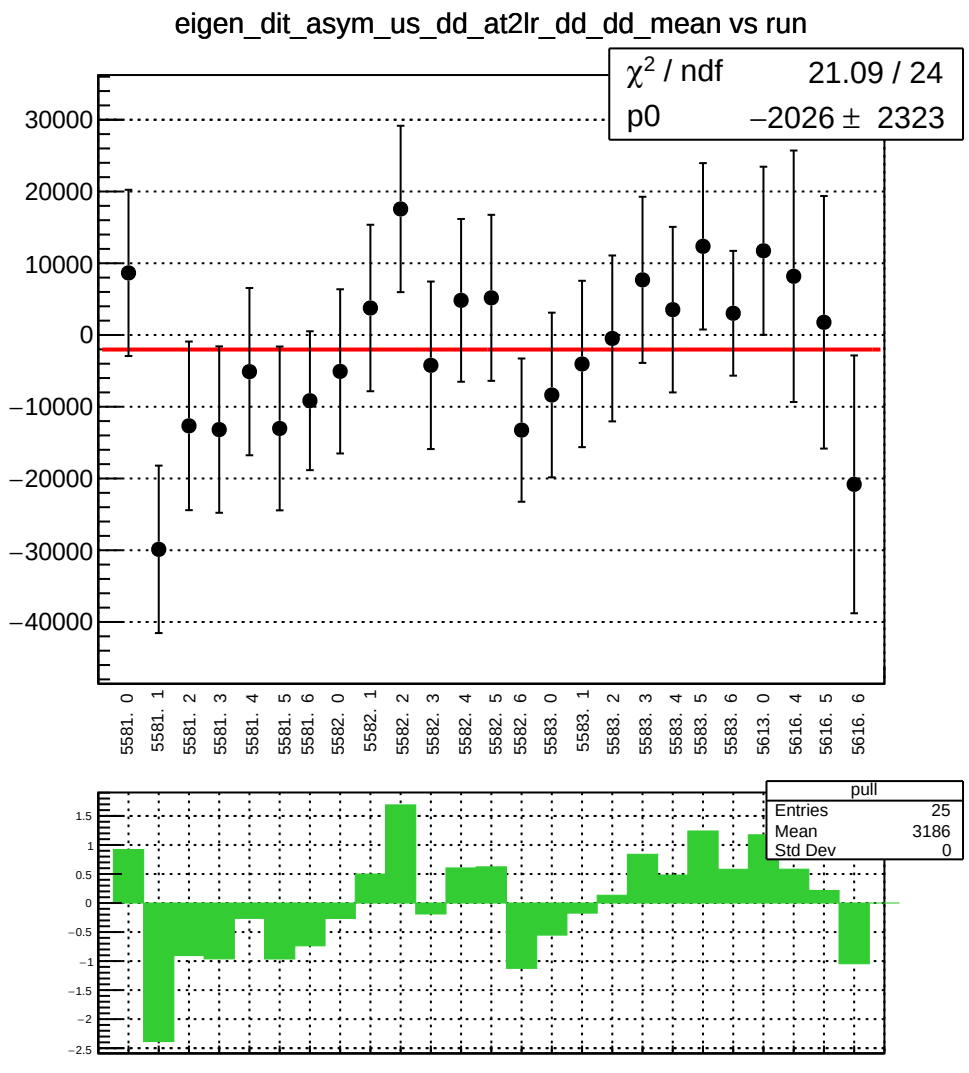

pull1D
Entries 25
Mean 0.0008145
Std Dev 0.9184
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

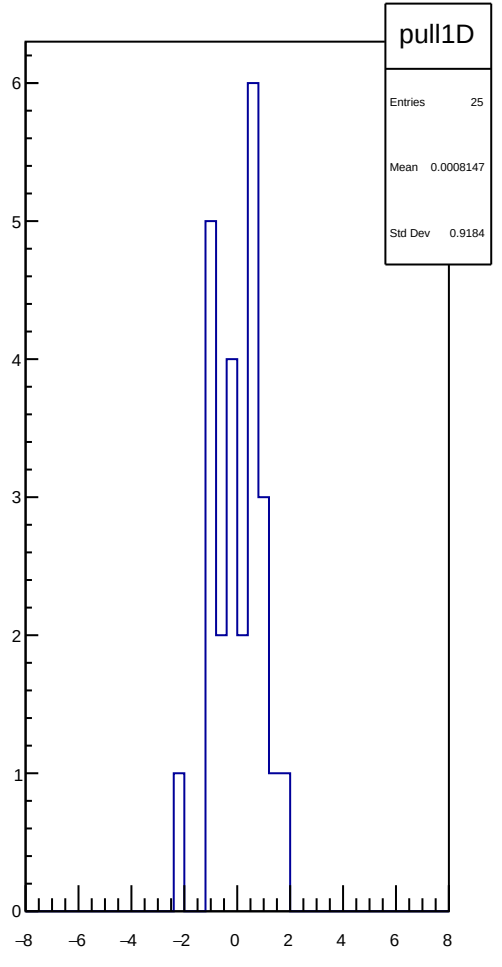

dit_asym_us_dd_at2lr_dd_dd_rms vs run
×10^3
χ² / ndf 1.759e+05 / 32
p0 1133 ± 1.643
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

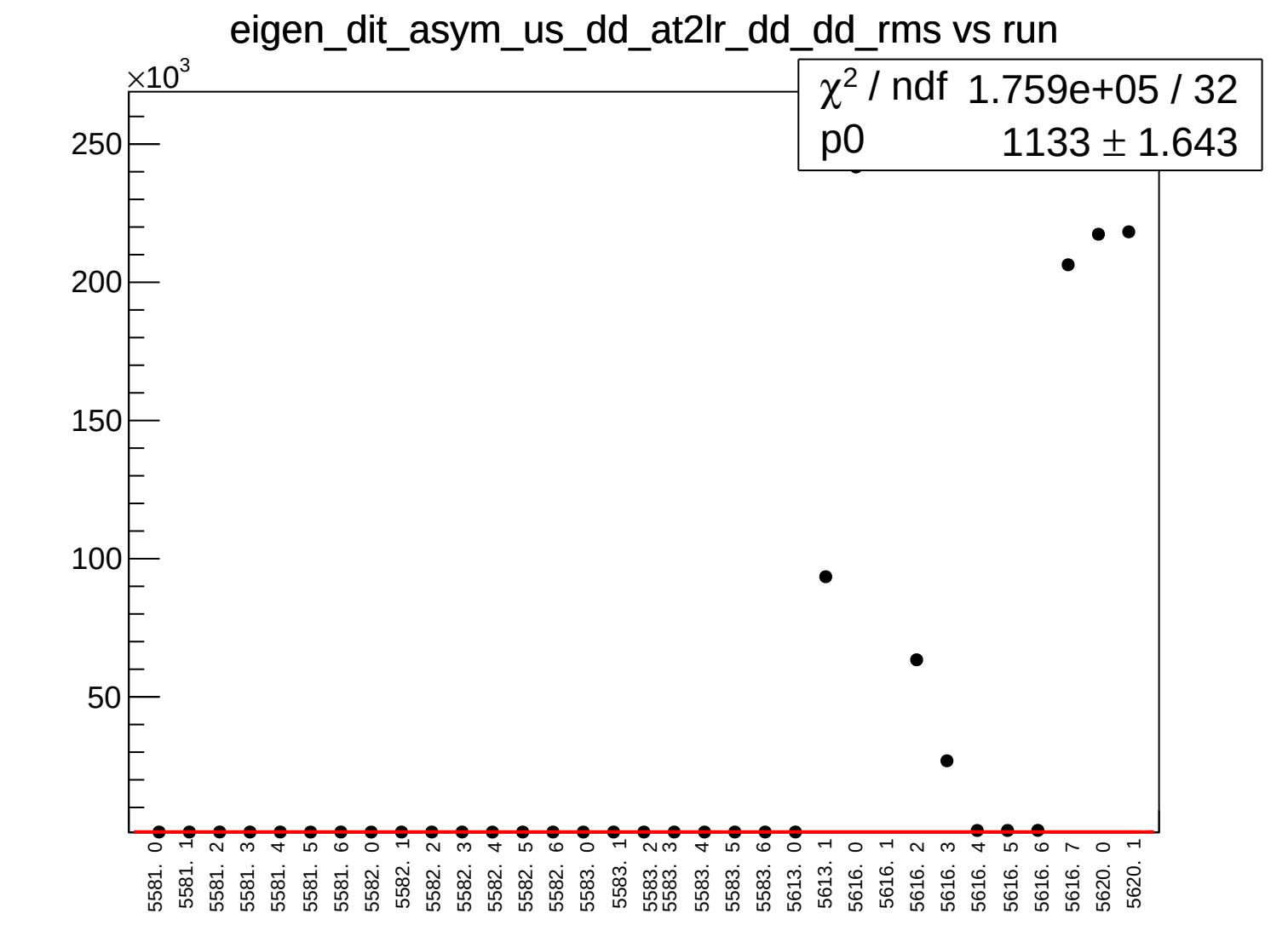

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 33.21 / 32
p0 564.1 ± 559
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −47.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

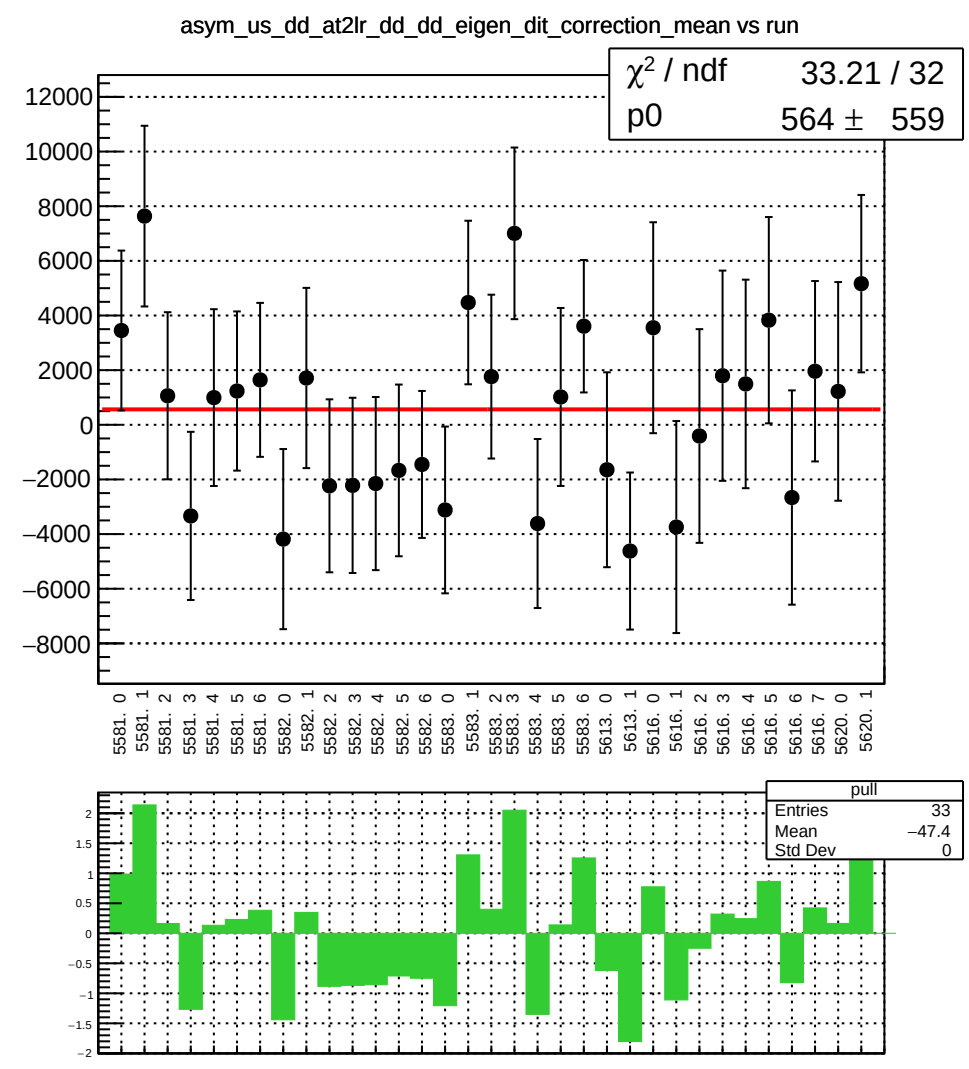

pull1D
Entries 33
Mean −0.005781
Std Dev 1.003
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

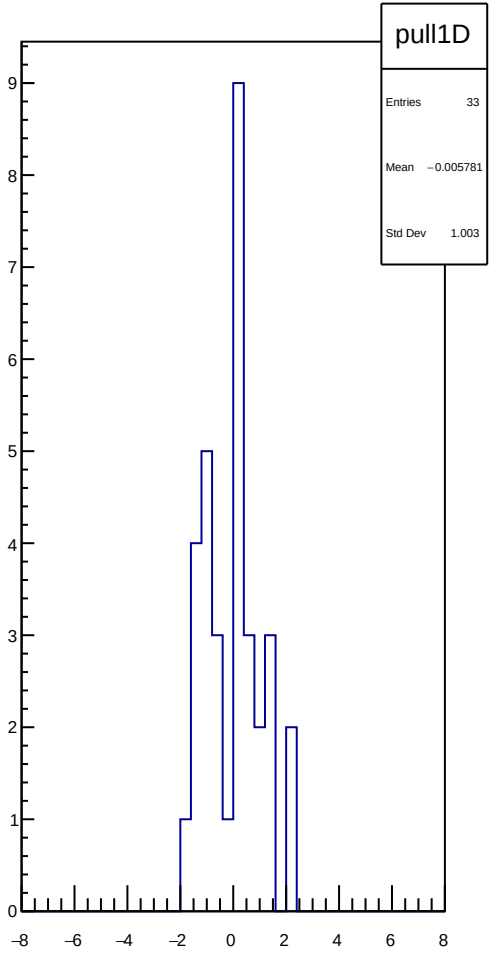

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 6804 / 32
p0 317.5 ± 0.3953
380
360
340
320
300
280
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

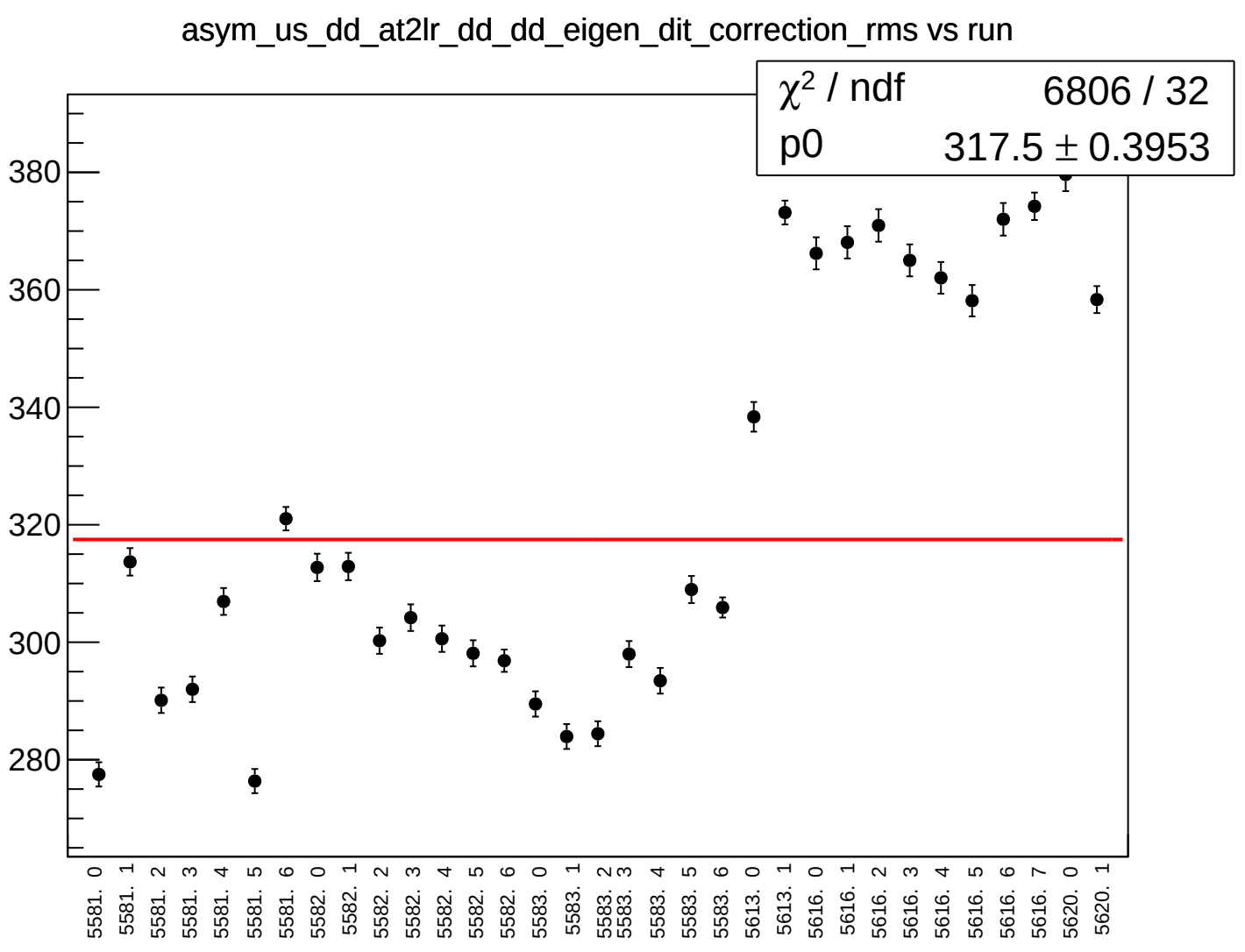

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 21.09 / 24
p0 −2026 ± 2323
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 4
5616. 5
5616. 6
pull
Entries 25
Mean 3186
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

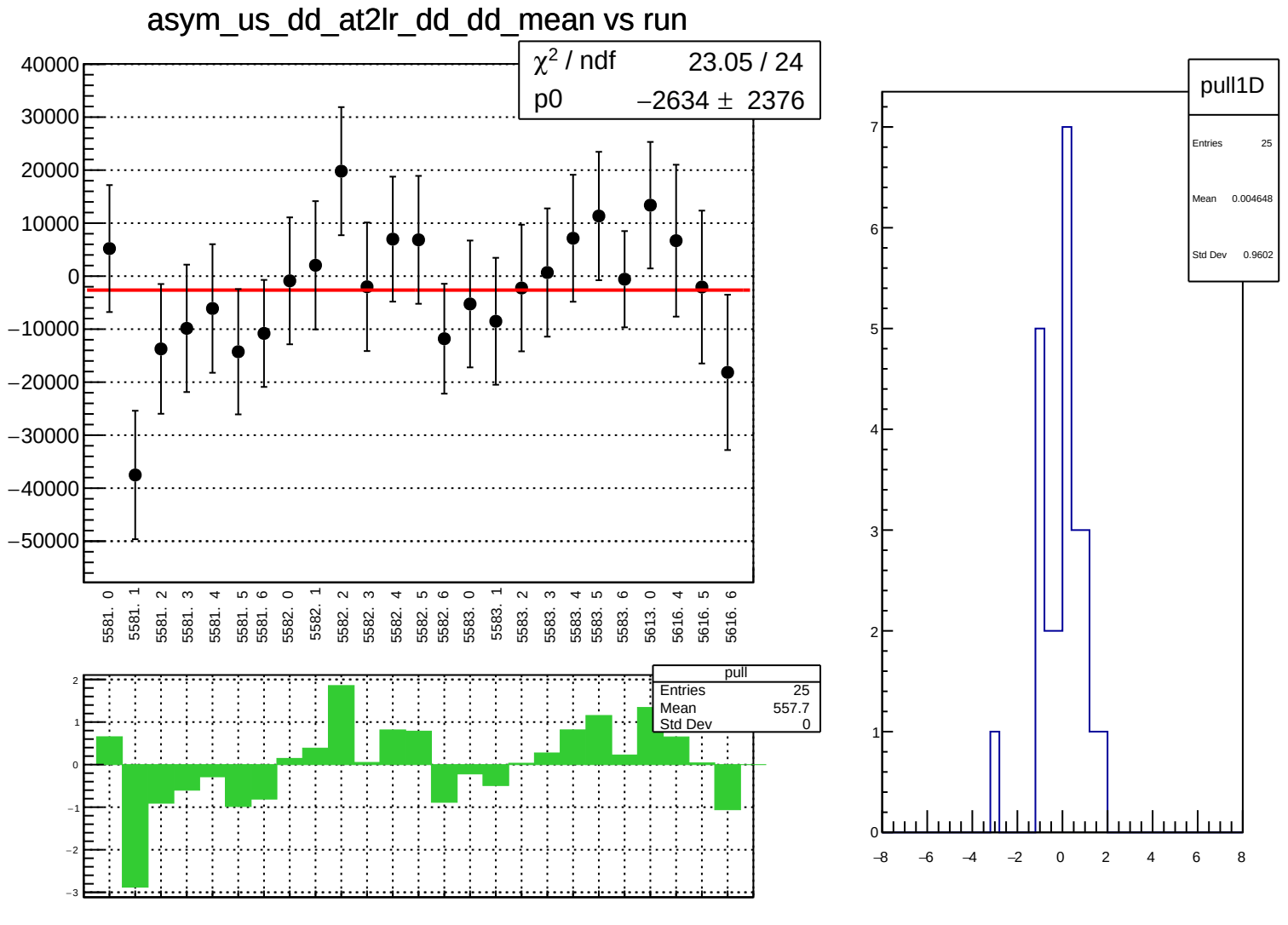

pull1D
Entries 25
Mean 0.0008147
Std Dev 0.9184
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

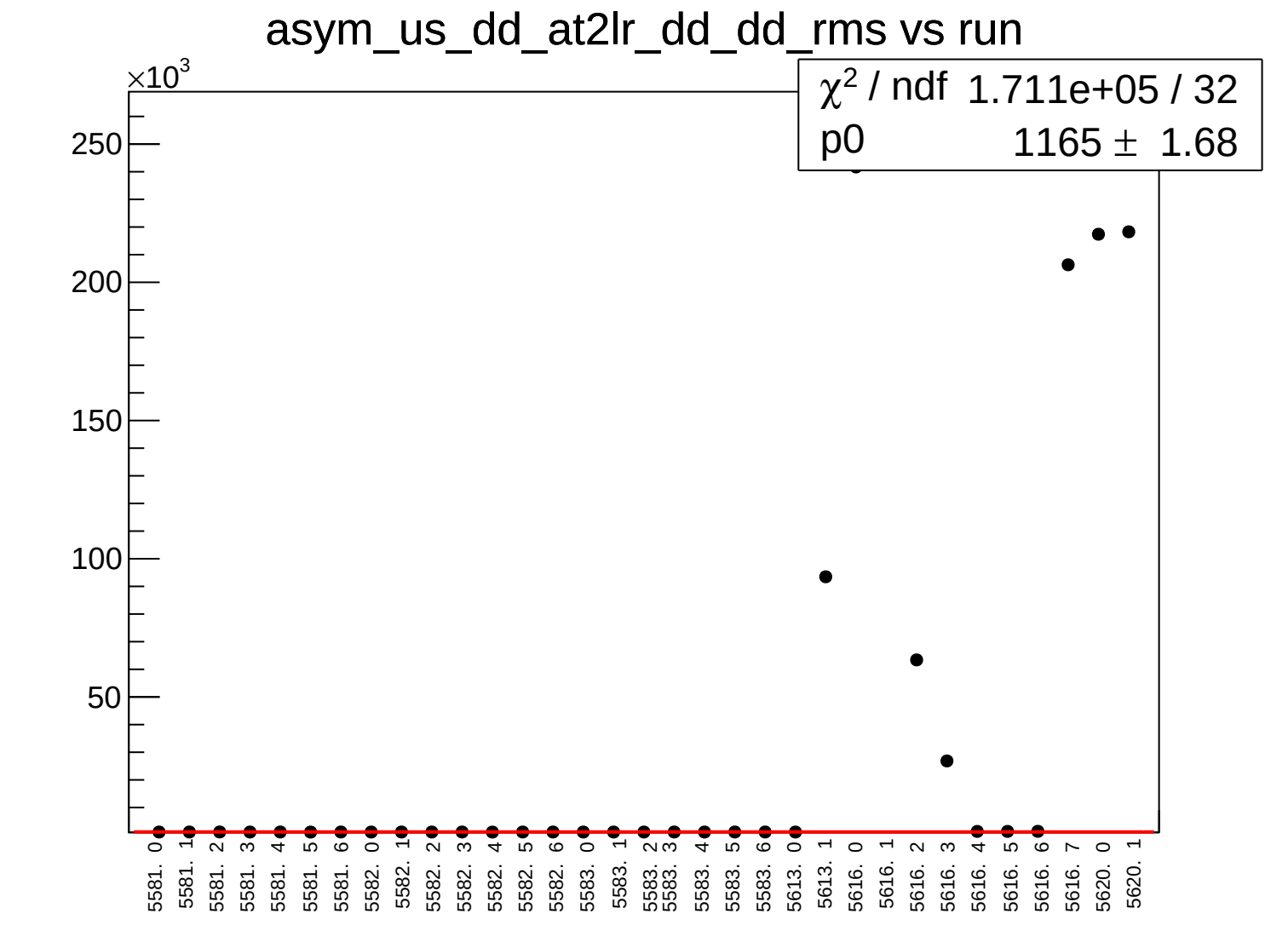

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
×10^3
χ² / ndf 1.759e+05 / 32
p0 1133 ± 1.643
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

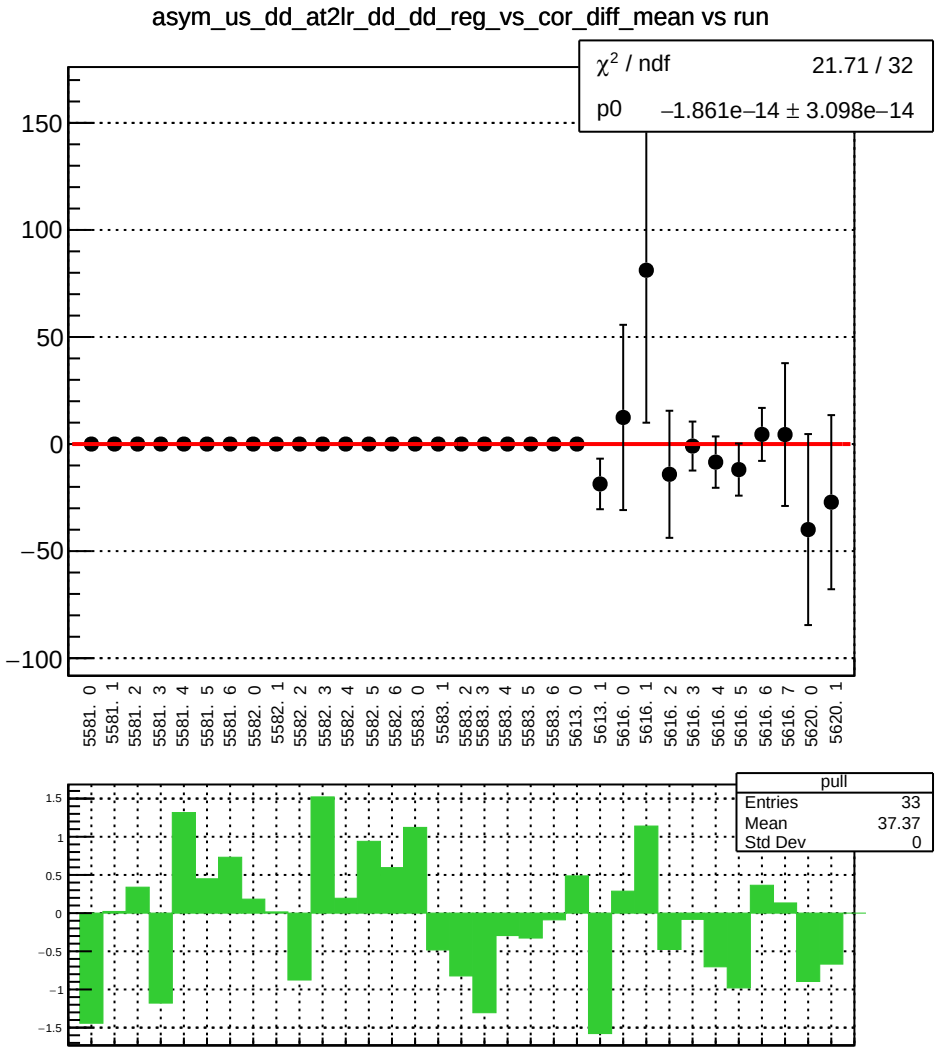

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 33.21 / 32
p0 564 ± 559
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −47.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

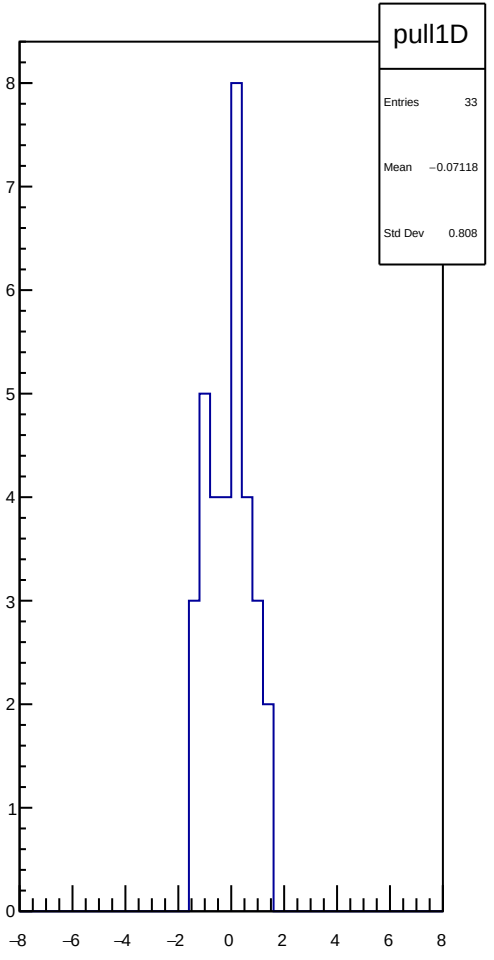

pull1D
Entries 33
Mean −0.005781
Std Dev 1.003
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

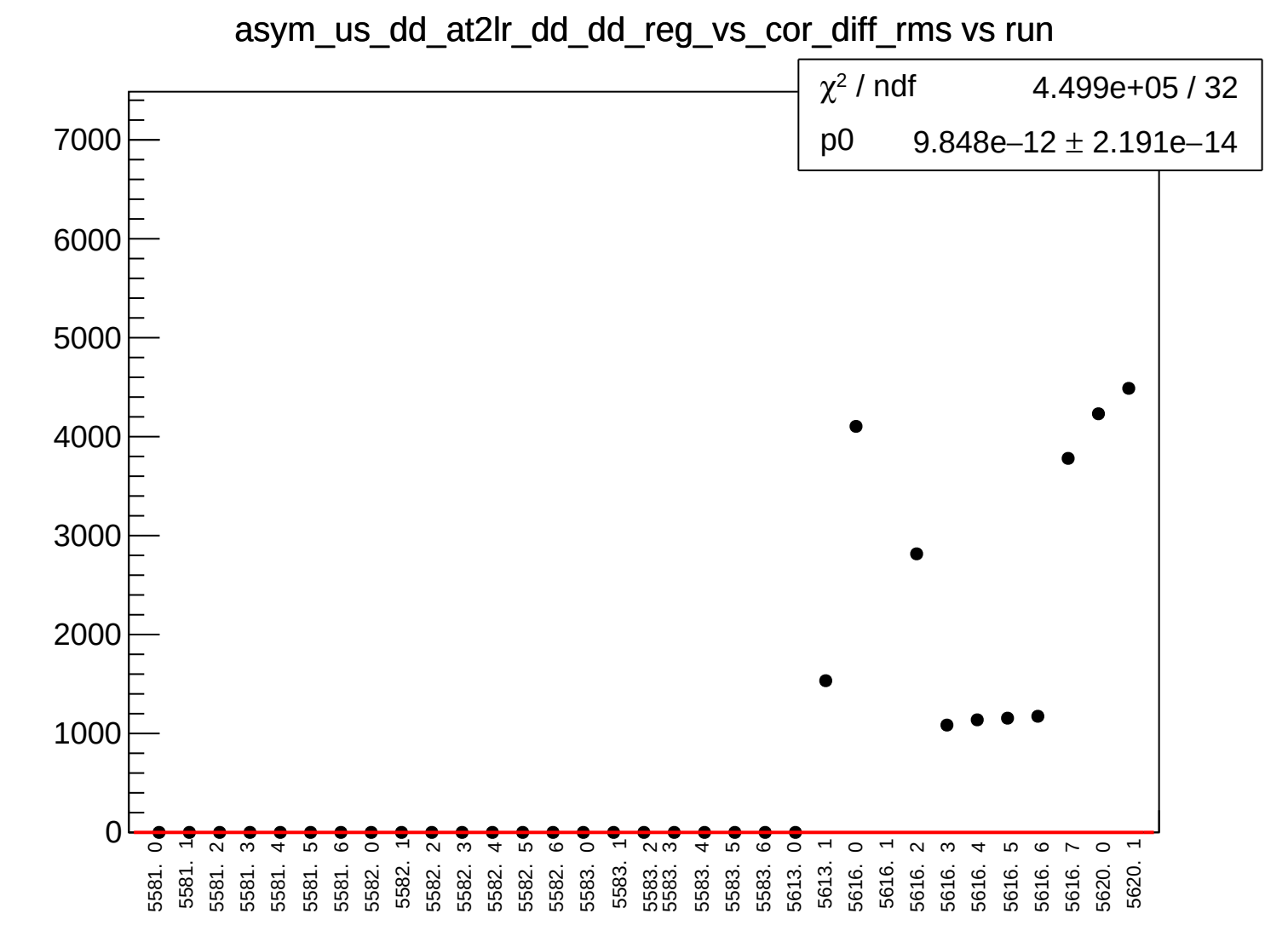

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6806 / 32
p0 317.5 ± 0.3953
380
360
340
320
300
280
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

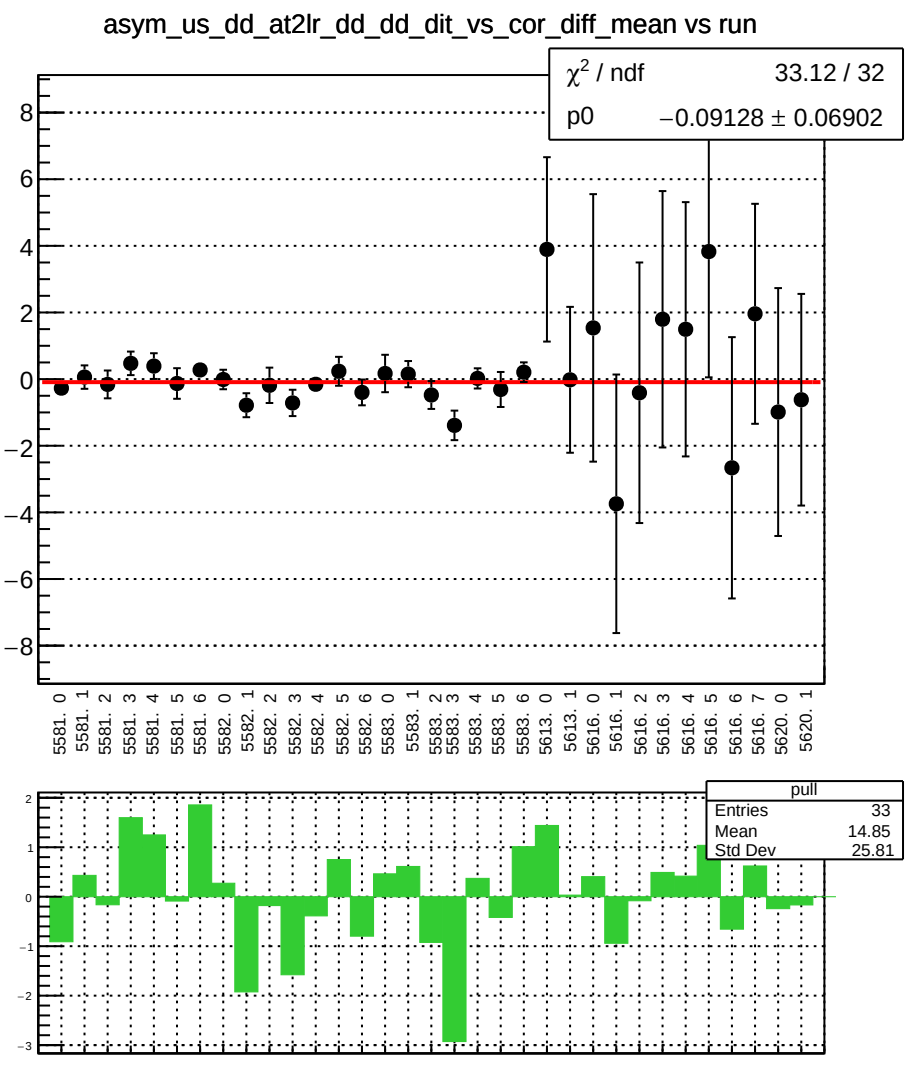

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 23.05 / 24
p0 −2634 ± 2376
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 4
5616. 5
5616. 6
pull
Entries 25
Mean 557.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 25
Mean 0.004648
Std Dev 0.9602
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

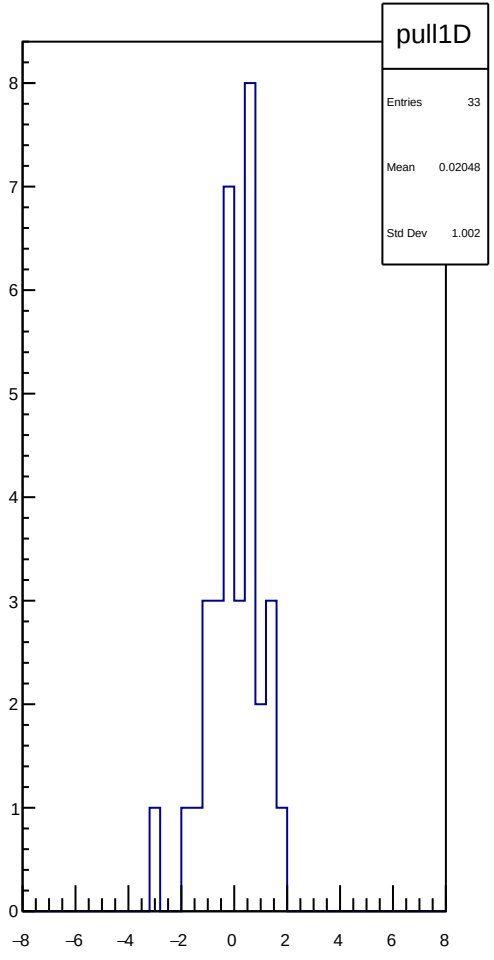

asym_us_dd_at2lr_dd_dd_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 1.711e+05 / 32
p0 1165 ± 1.68
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

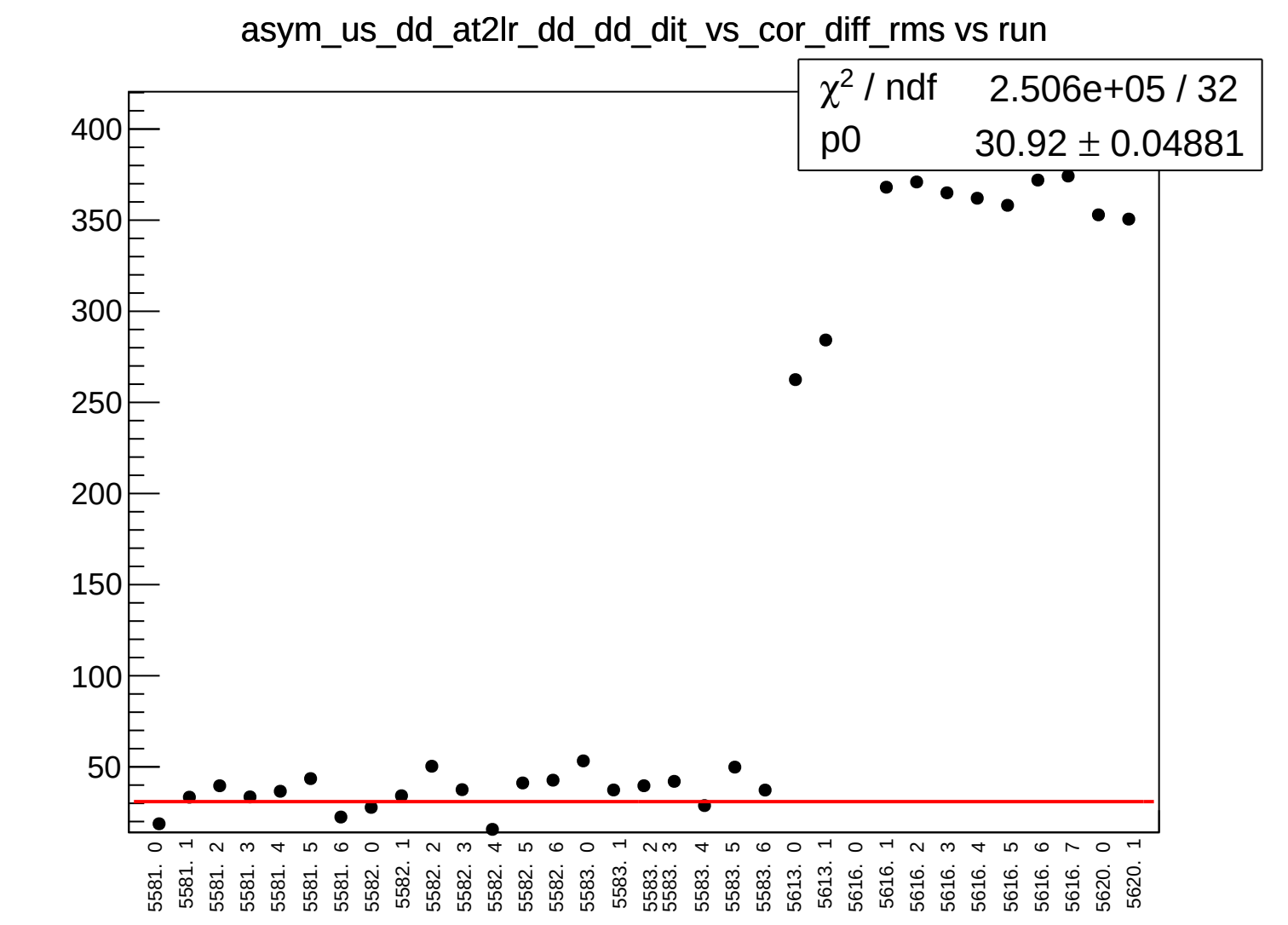

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 21.71 / 32
p0 −1.861e−14 ± 3.098e−14
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.37
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

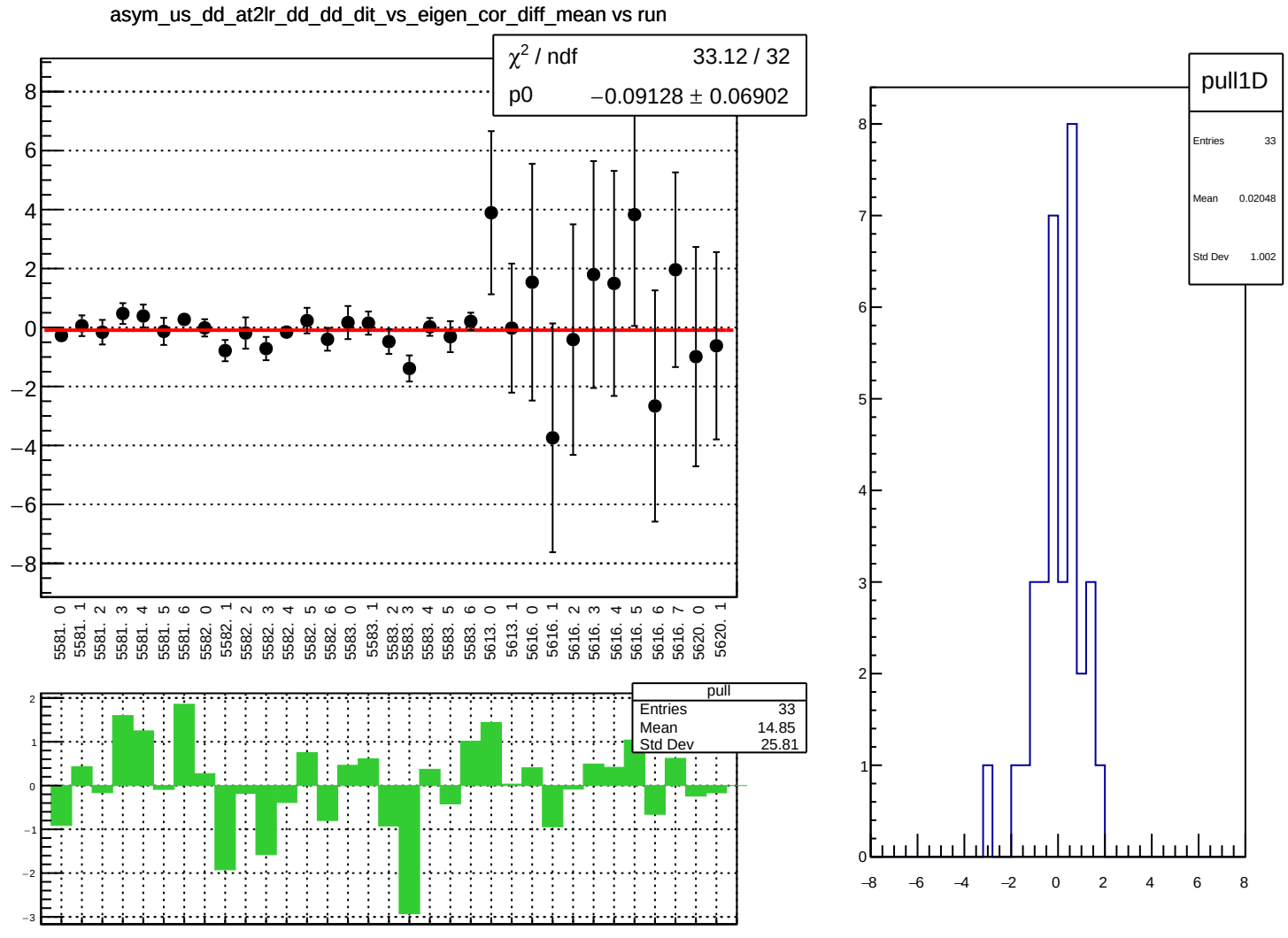

pull1D
Entries 33
Mean −0.07118
Std Dev 0.808
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

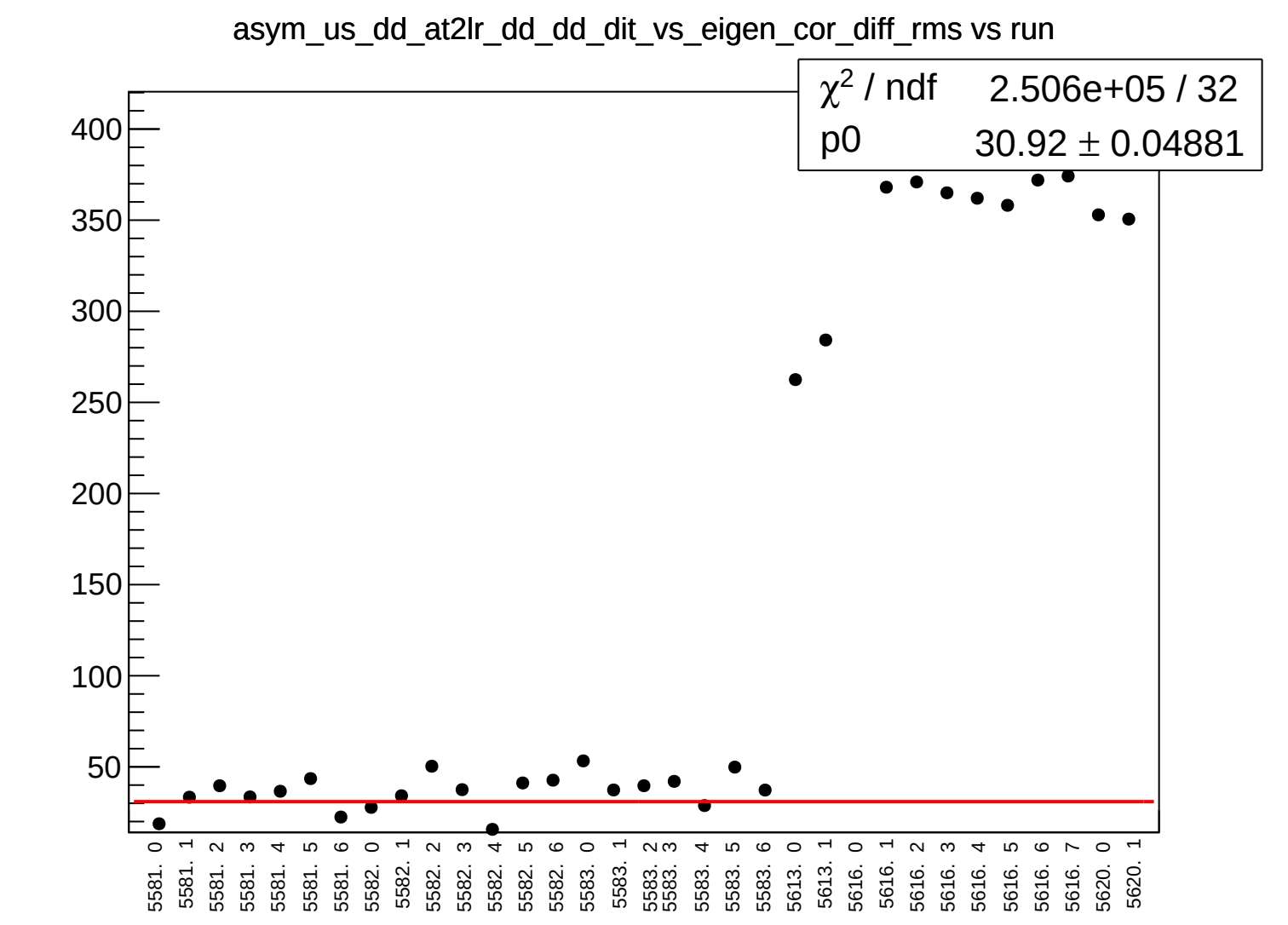

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.499e+05 / 32
p0 9.848e−12 ± 2.191e−14
7000
6000
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

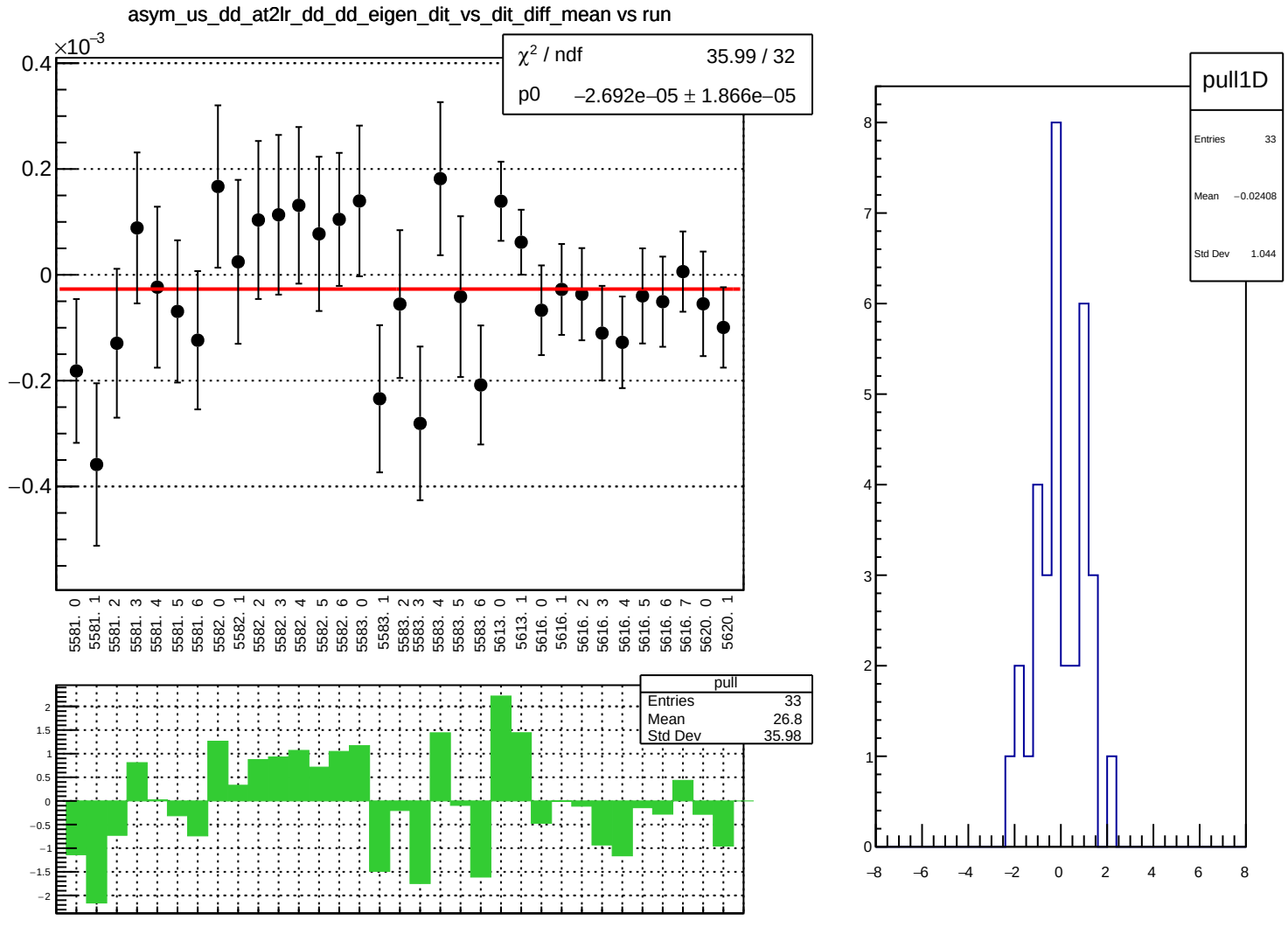

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 33.12 / 32
p0 −0.09128 ± 0.06902
pull
Entries 33
Mean 14.85
Std Dev 25.81

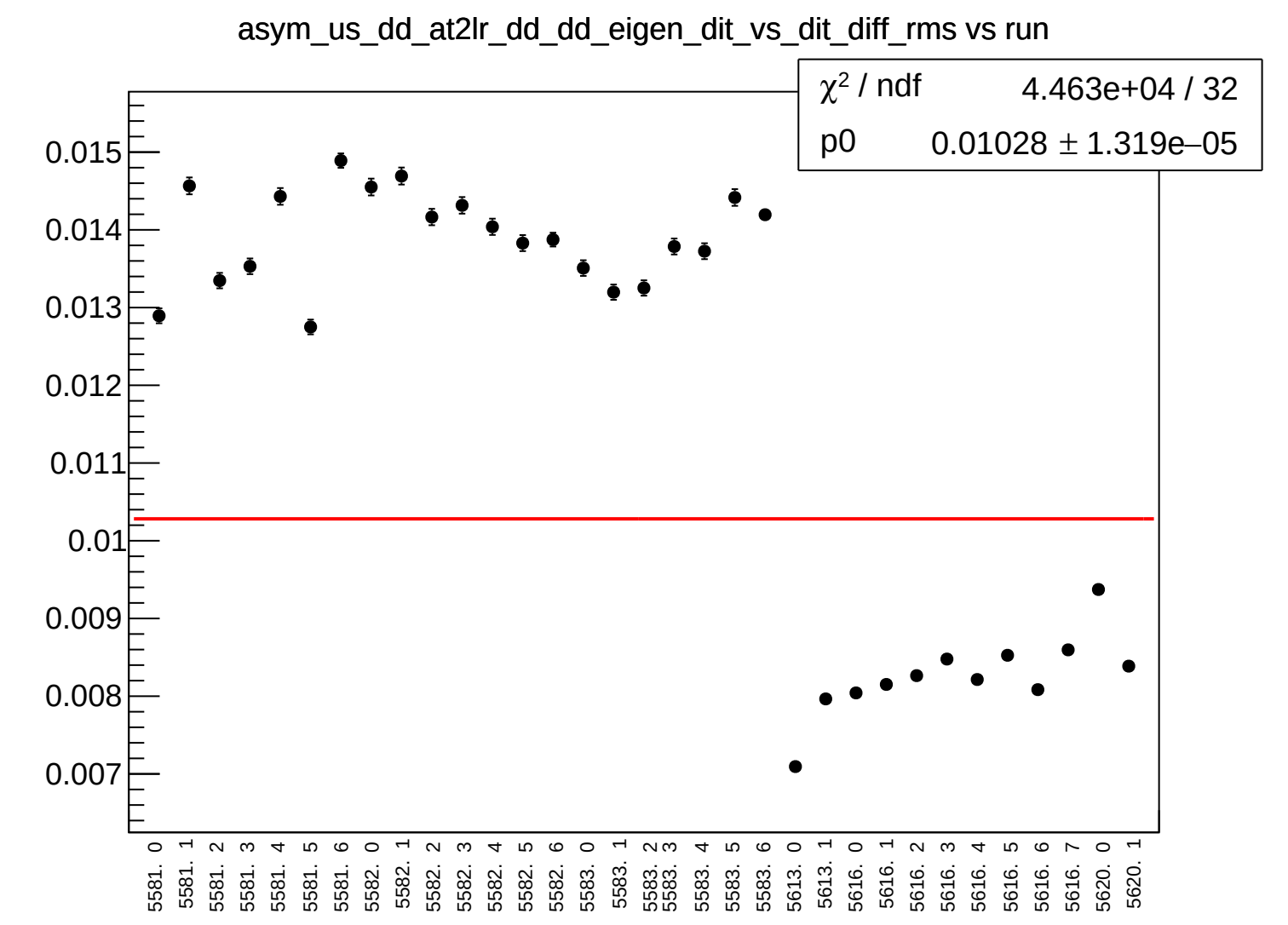

pull1D
Entries 33
Mean 0.02048
Std Dev 1.002

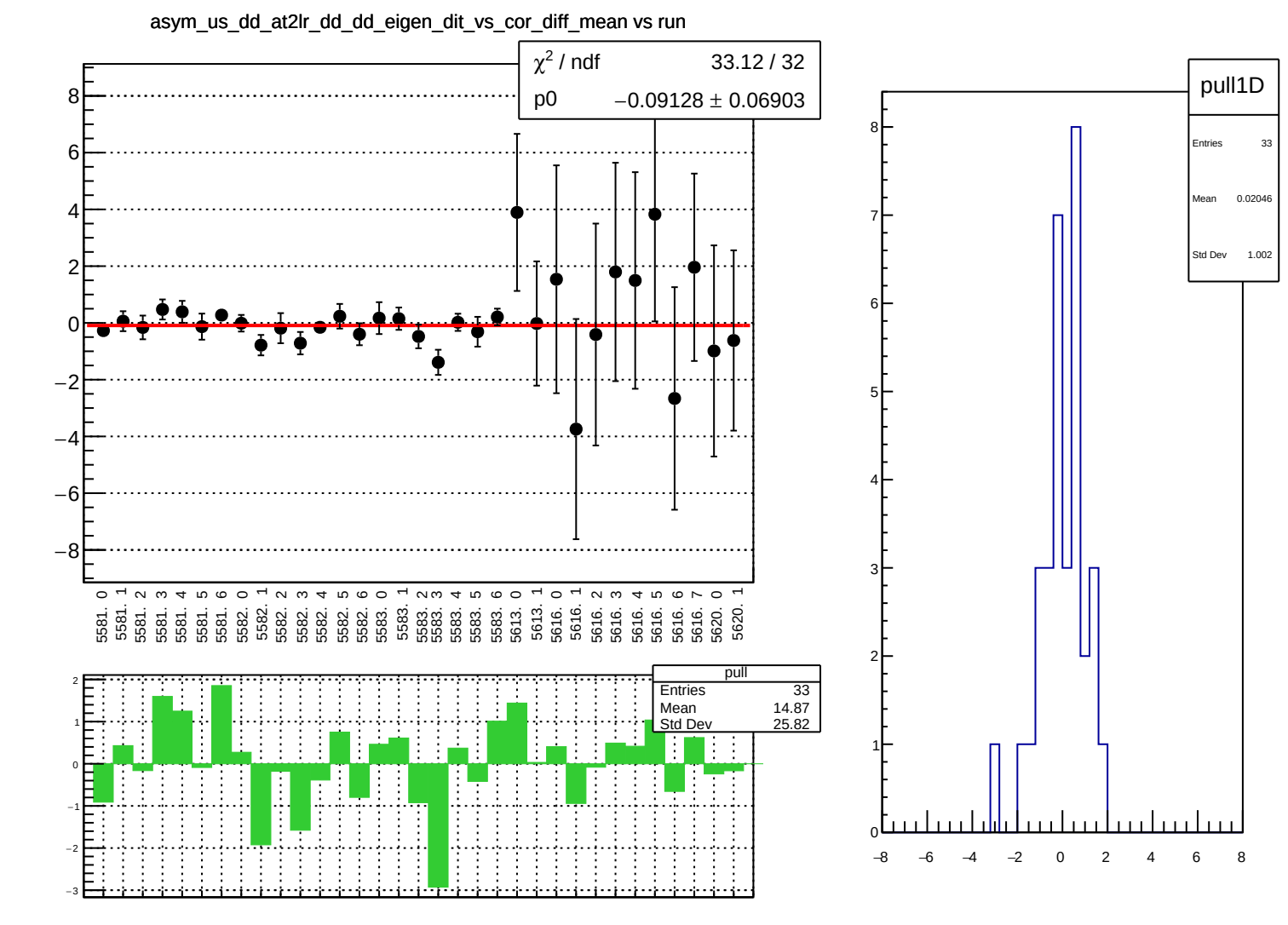

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.506e+05 / 32
p0 30.92 ± 0.04881
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

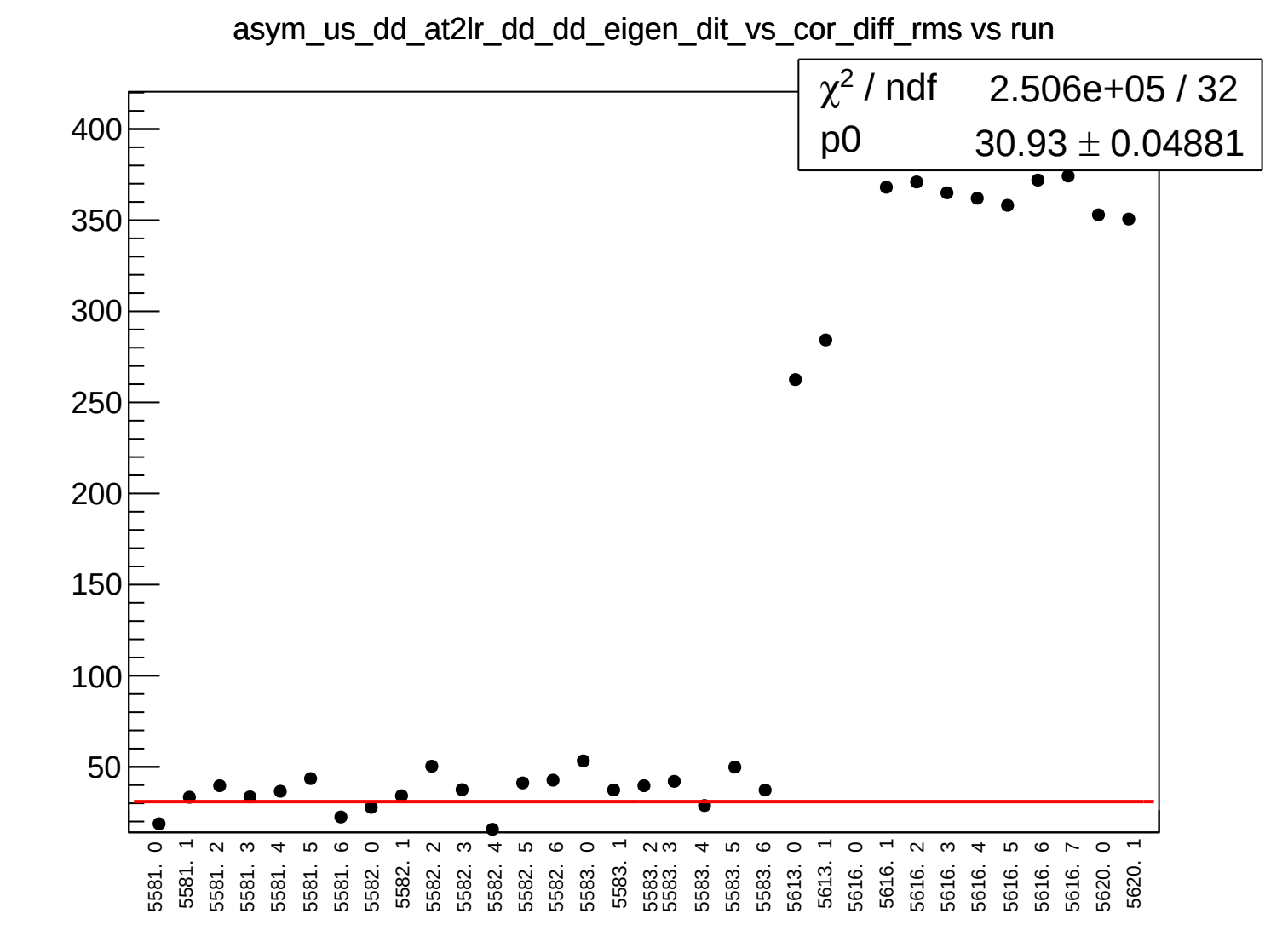

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.12 / 32
p0 −0.09128 ± 0.06902
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 14.85
Std Dev 25.81
pull1D
Entries 33
Mean 0.02048
Std Dev 1.002

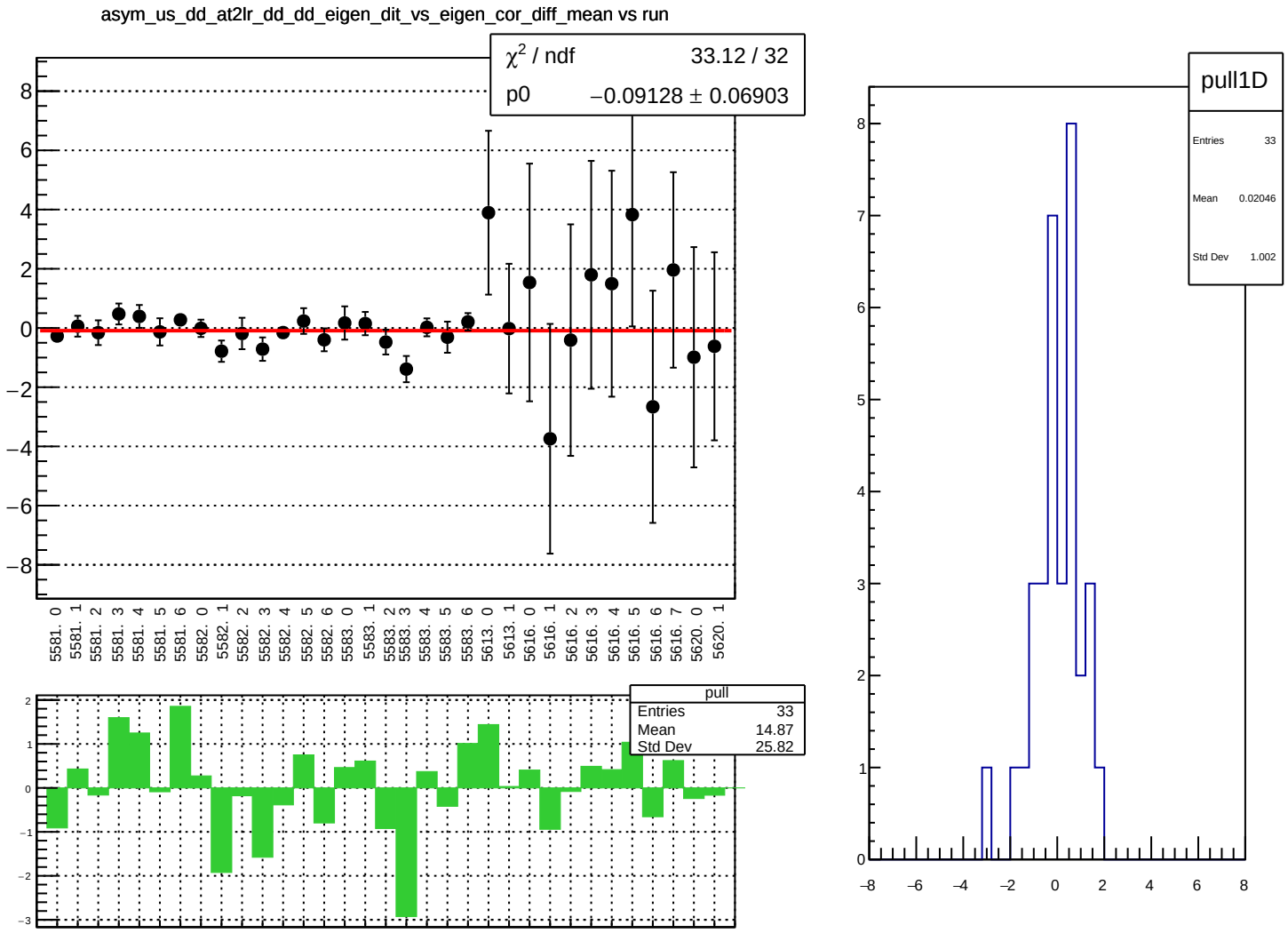

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.506e+05 / 32
p0 30.92 ± 0.04881
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

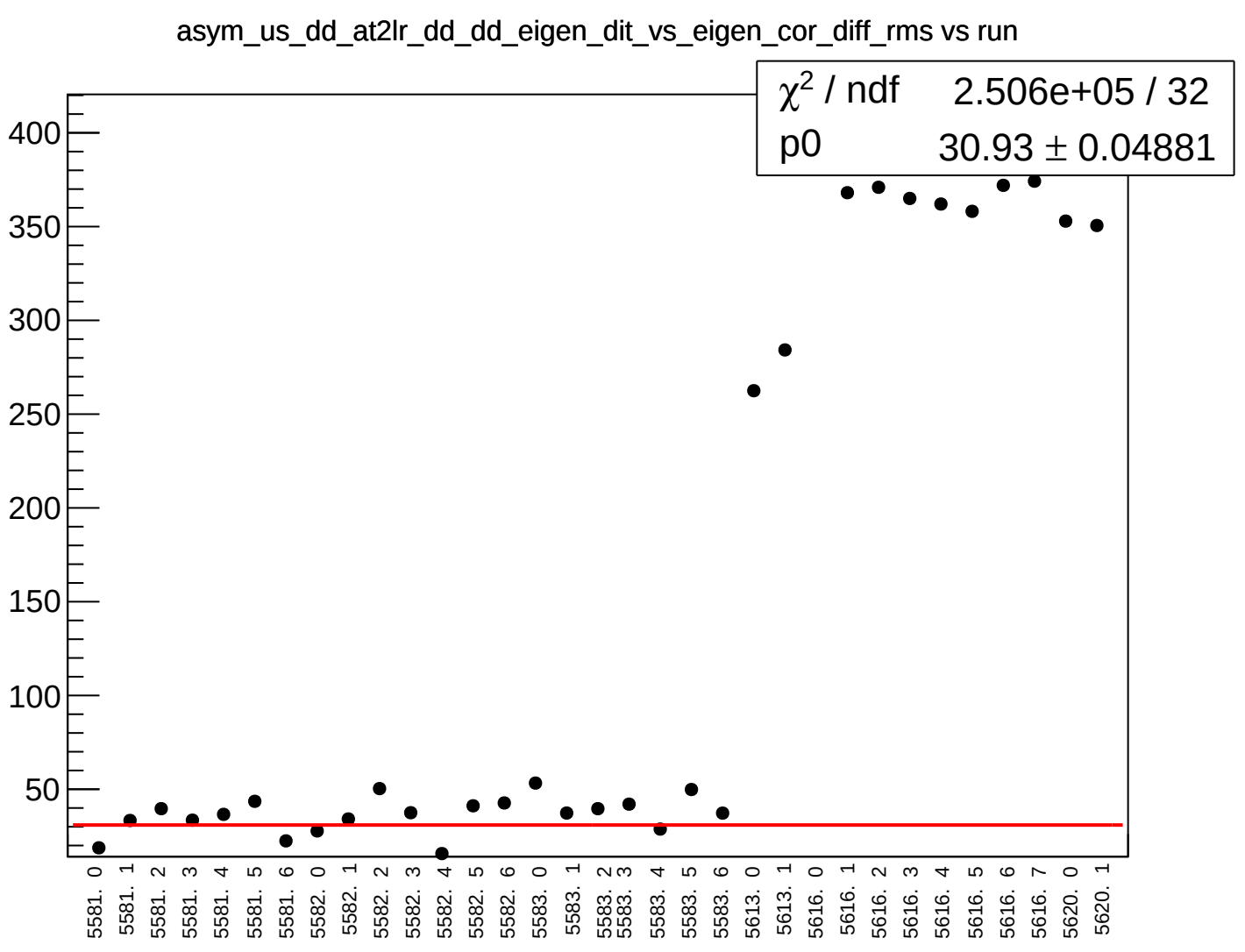

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.99 / 32
p0 −2.692e−05 ± 1.866e−05
0.4
0.2
0
−0.2
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.8
Std Dev 35.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02408
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

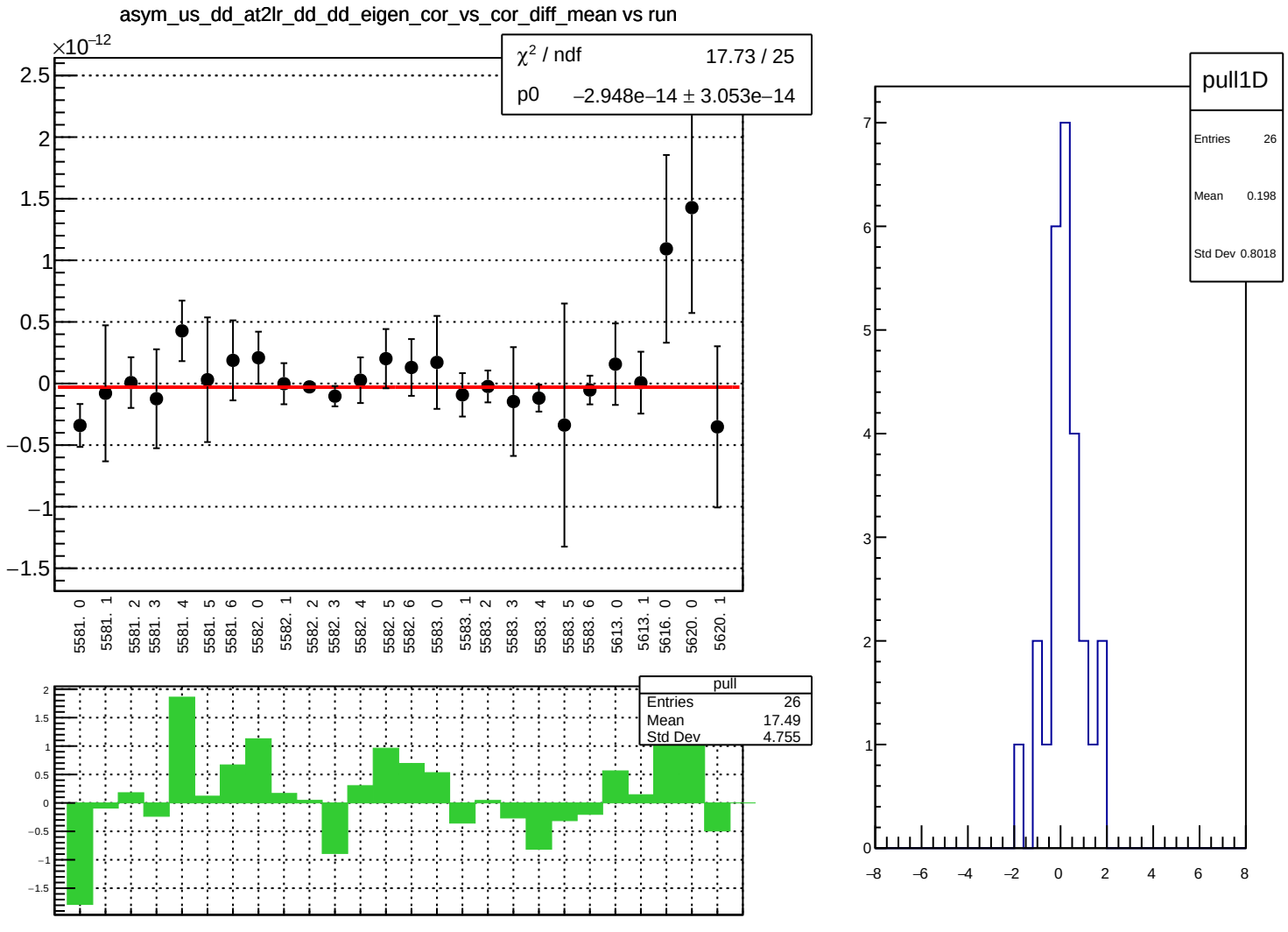

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.463e+04 / 32
p0 0.01028 ± 1.319e−05
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

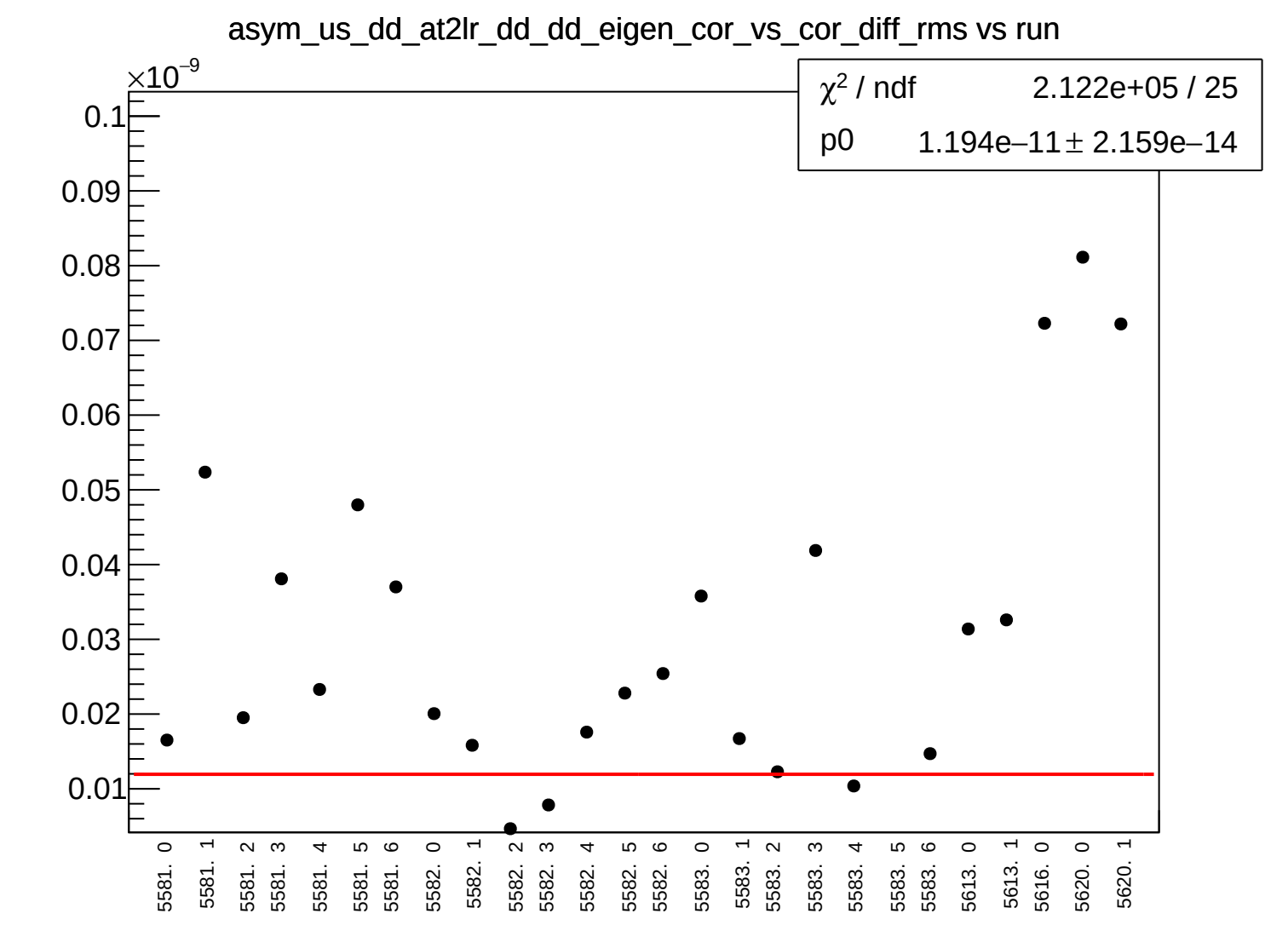

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.12 / 32
p0 −0.09128 ± 0.06903
pull
Entries 33
Mean 14.87
Std Dev 25.82
pull1D
Entries 33
Mean 0.02046
Std Dev 1.002

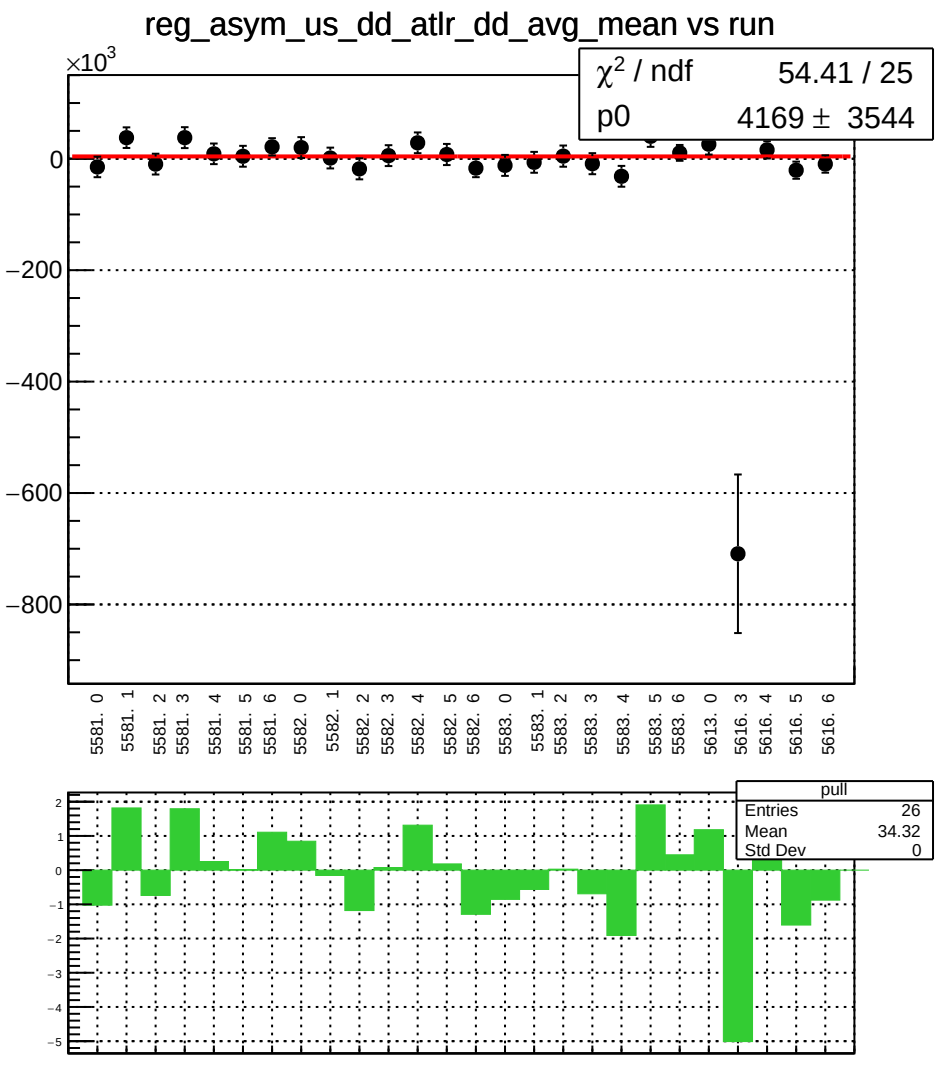

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.506e+05 / 32
p0 30.93 ± 0.04881
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

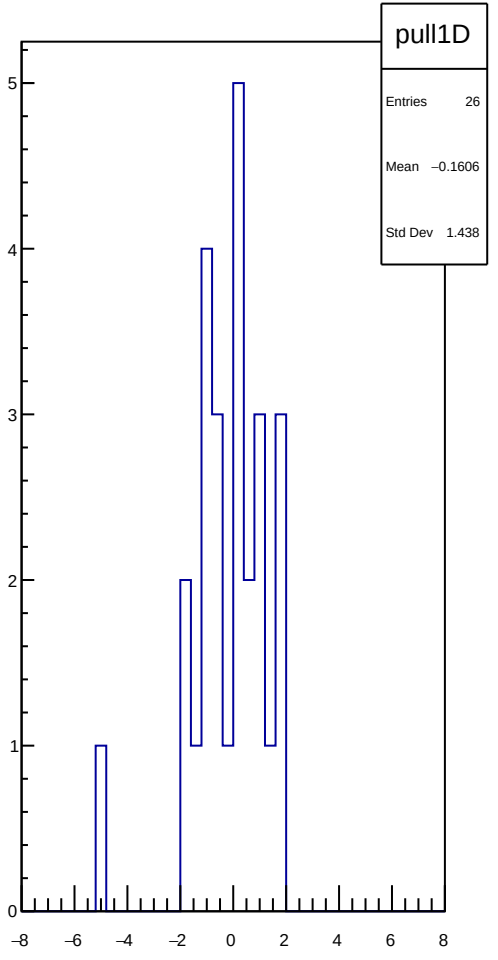

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.12 / 32
p0 −0.09128 ± 0.06903
pull
Entries 33
Mean 14.87
Std Dev 25.82
pull1D
Entries 33
Mean 0.02046
Std Dev 1.002

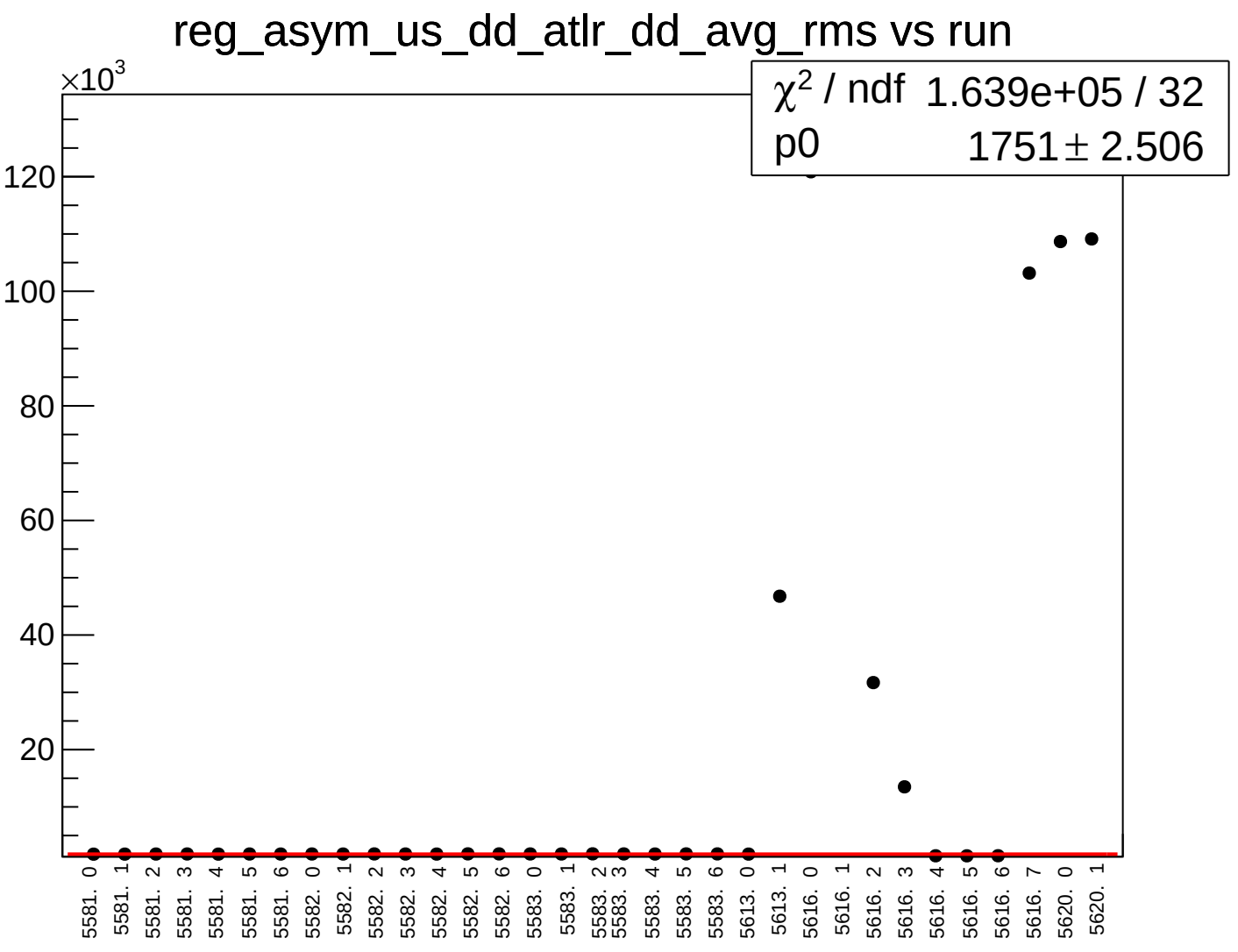

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.506e+05 / 32
p0 30.93 ± 0.04881
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

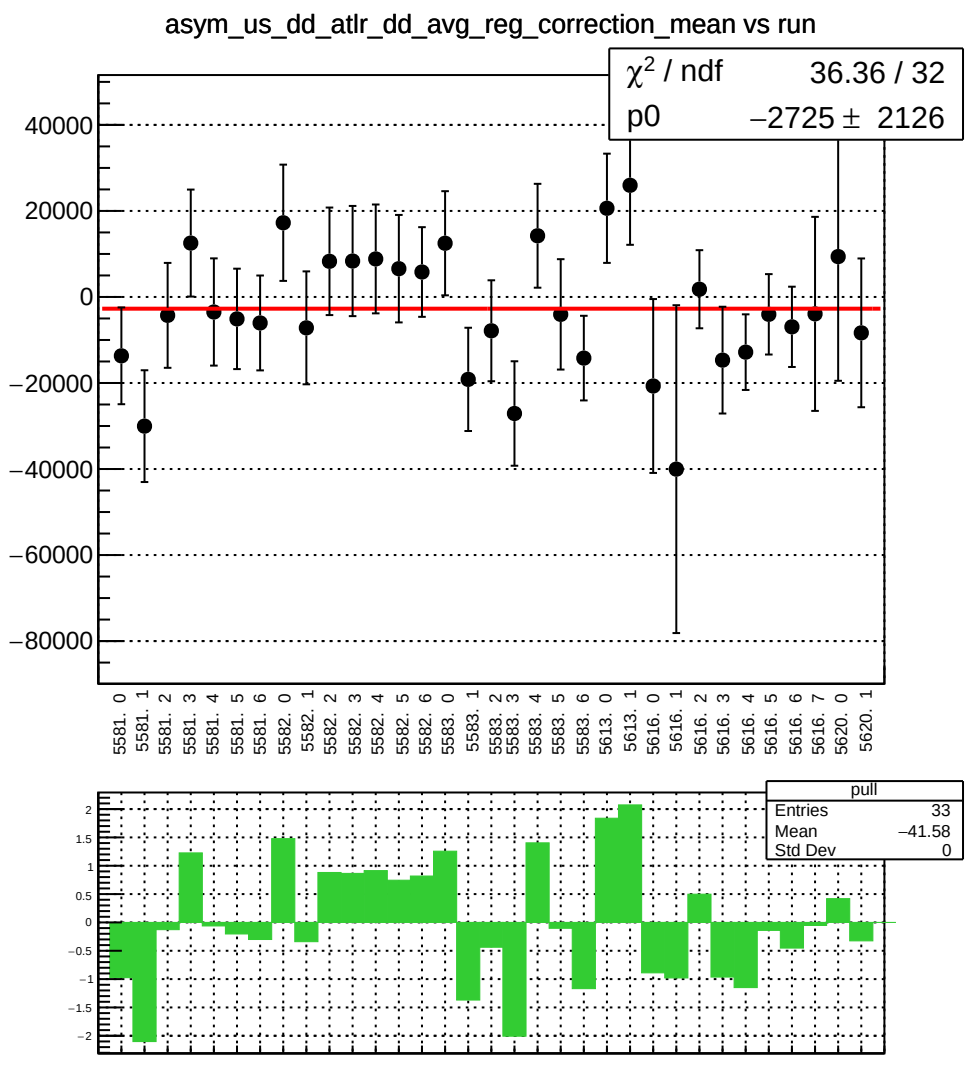

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 17.73 / 25
p0 −2.948e−14 ± 3.053e−14
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 17.49
Std Dev 4.755
pull1D
Entries 26
Mean 0.198
Std Dev 0.8018
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

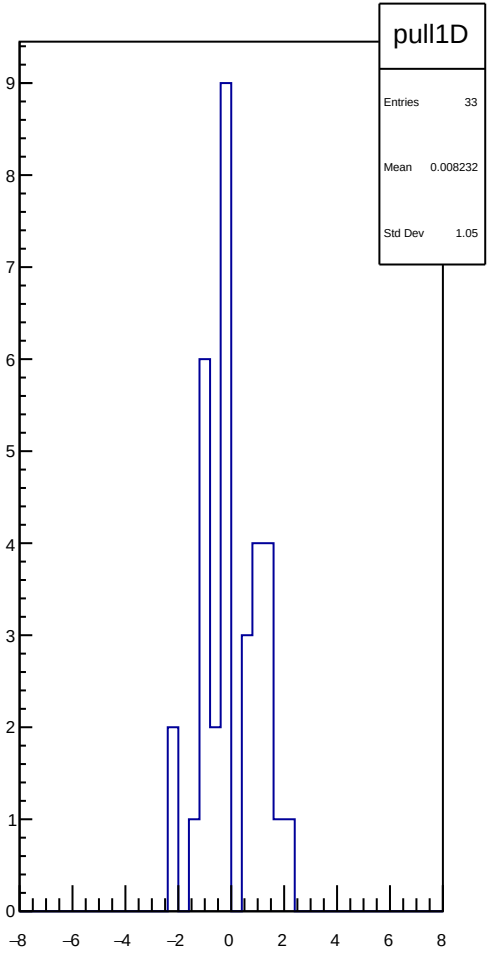

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.122e+05 / 25
p0 1.194e−11 ± 2.159e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

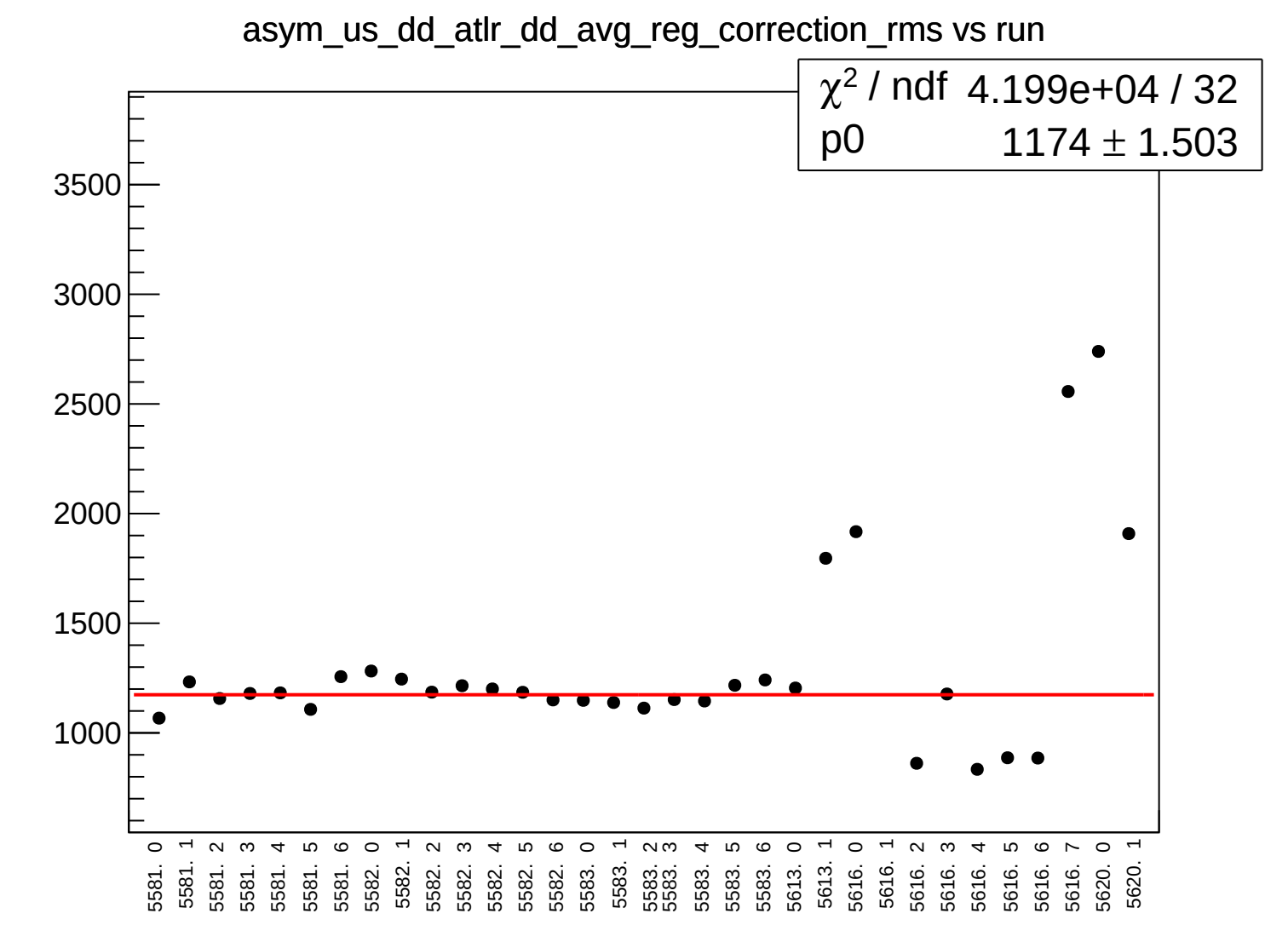

reg_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 54.41 / 25
p0 4169 ± 3544
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 34.32
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

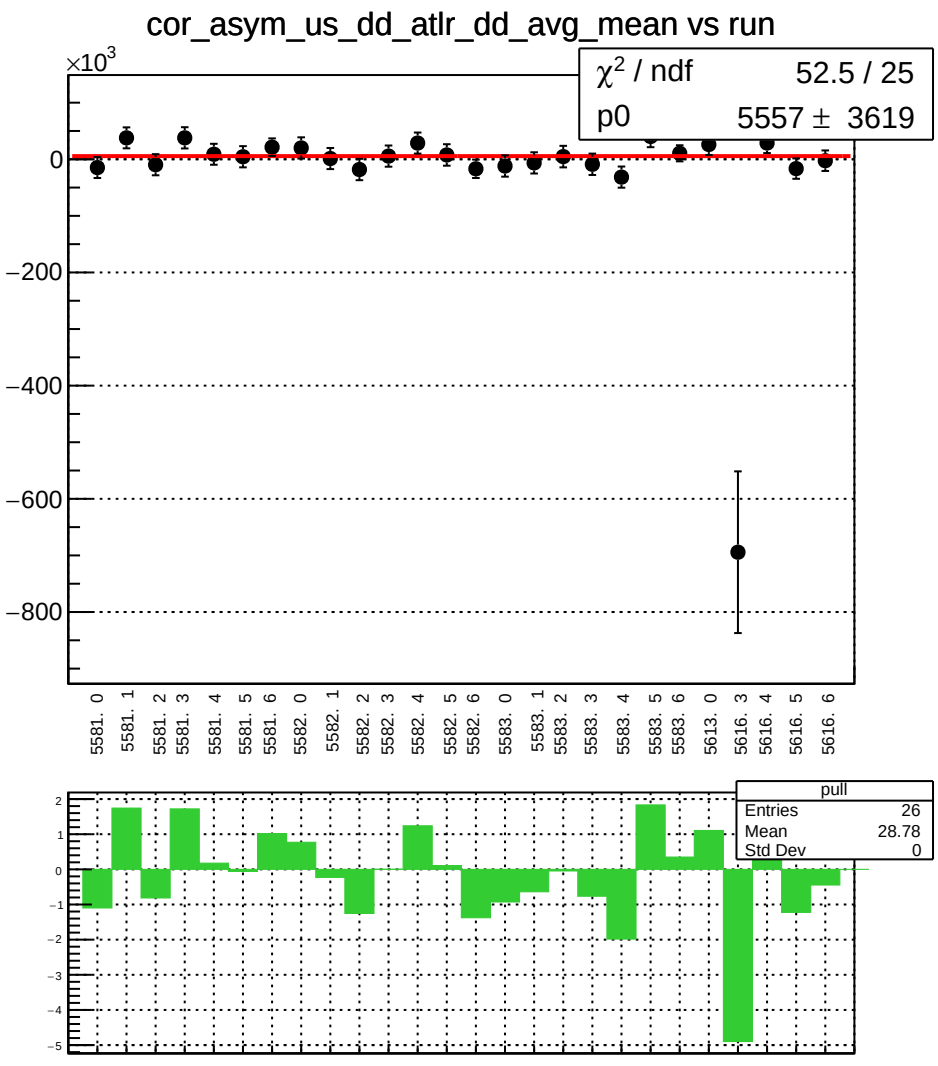

pull1D
Entries 26
Mean −0.1606
Std Dev 1.438
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

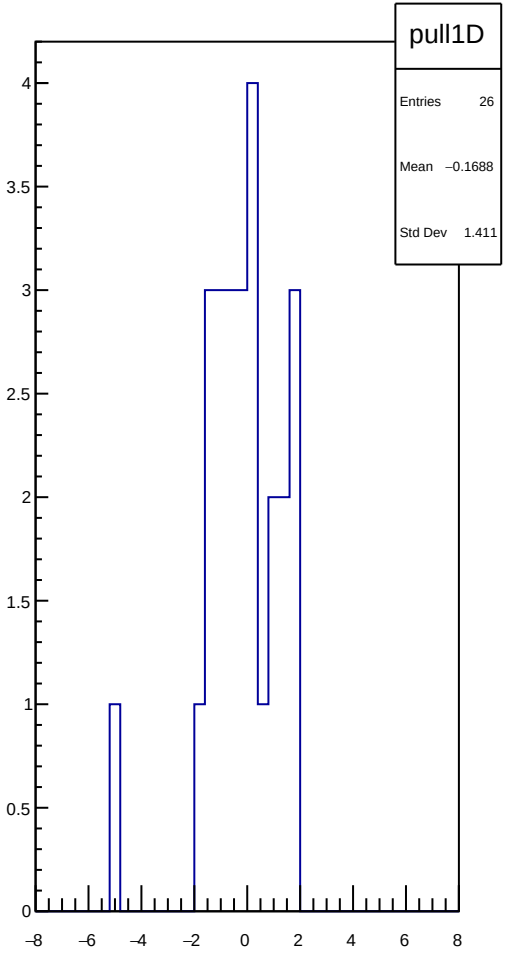

reg_asym_us_dd_atlr_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.639e+05 / 32
p0 1751 ± 2.506
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

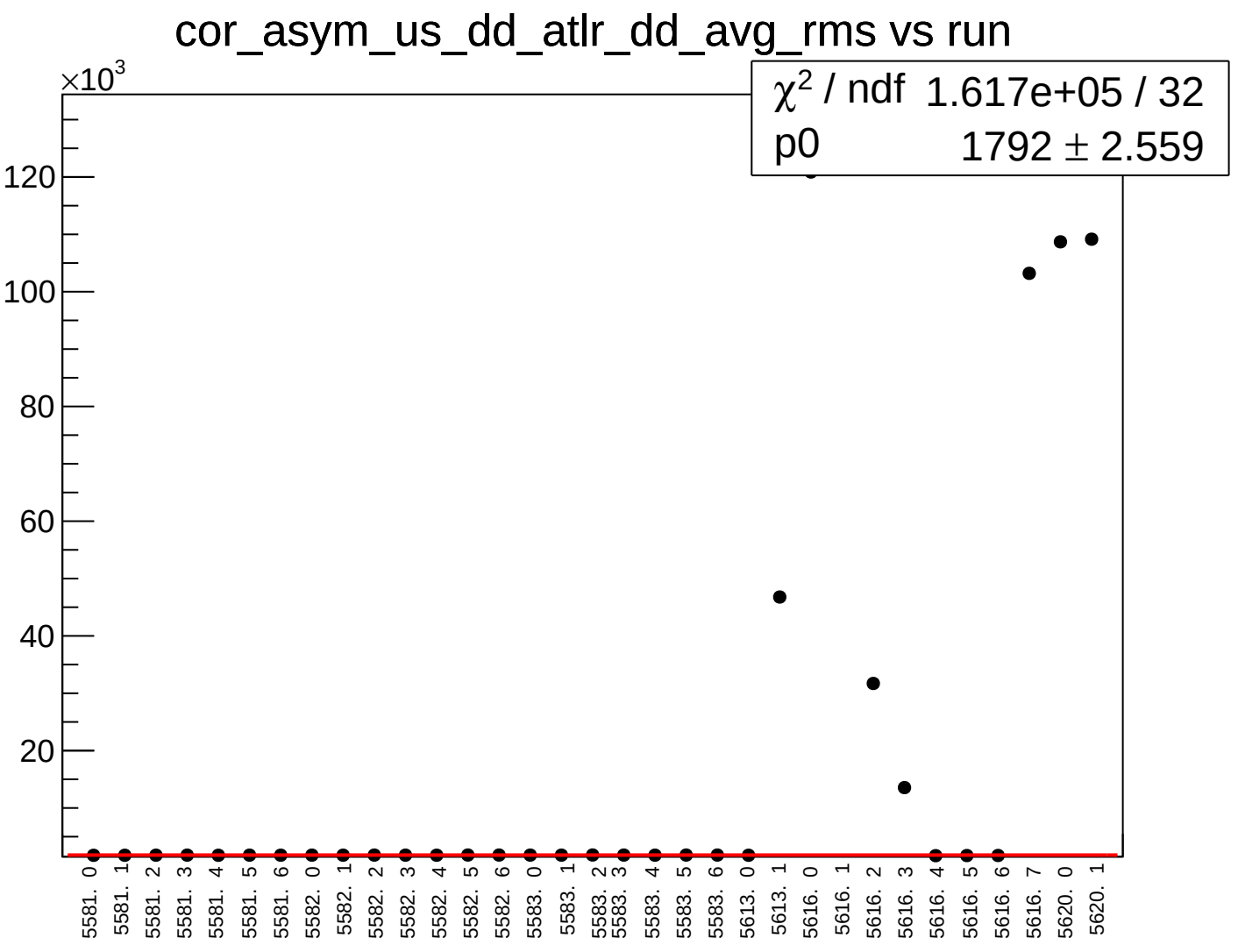

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 36.36 / 32
p0 −2725 ± 2126
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −41.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

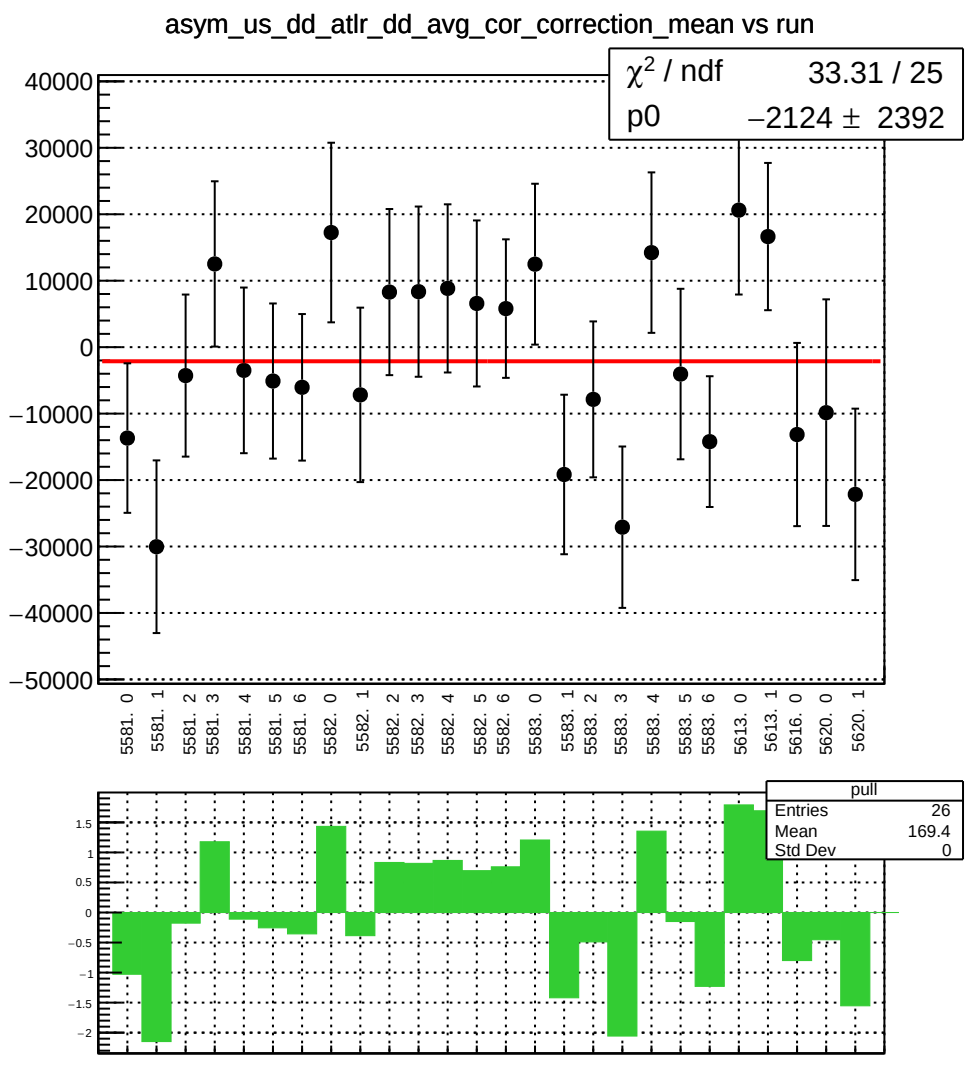

pull1D
Entries 33
Mean 0.008232
Std Dev 1.05
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

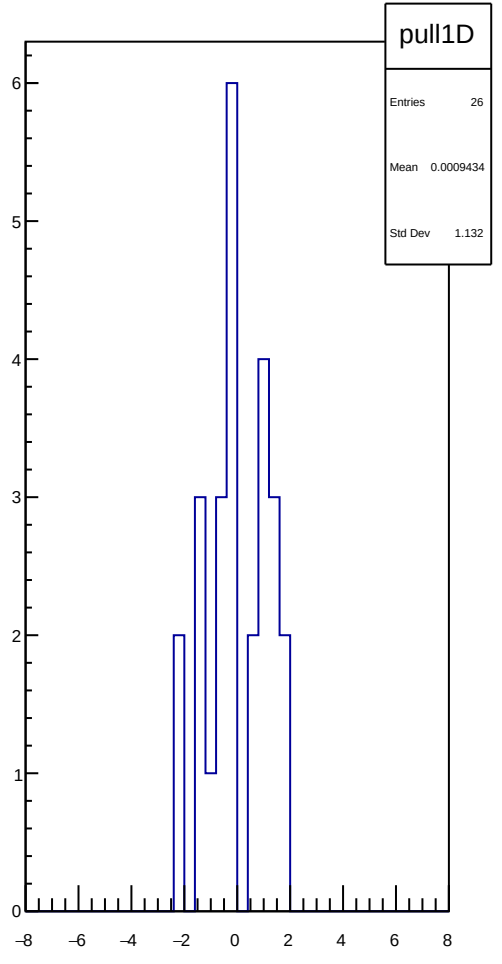

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 4.199e+04 / 32
p0 1174 ± 1.503
3500
3000
2500
2000
1500
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

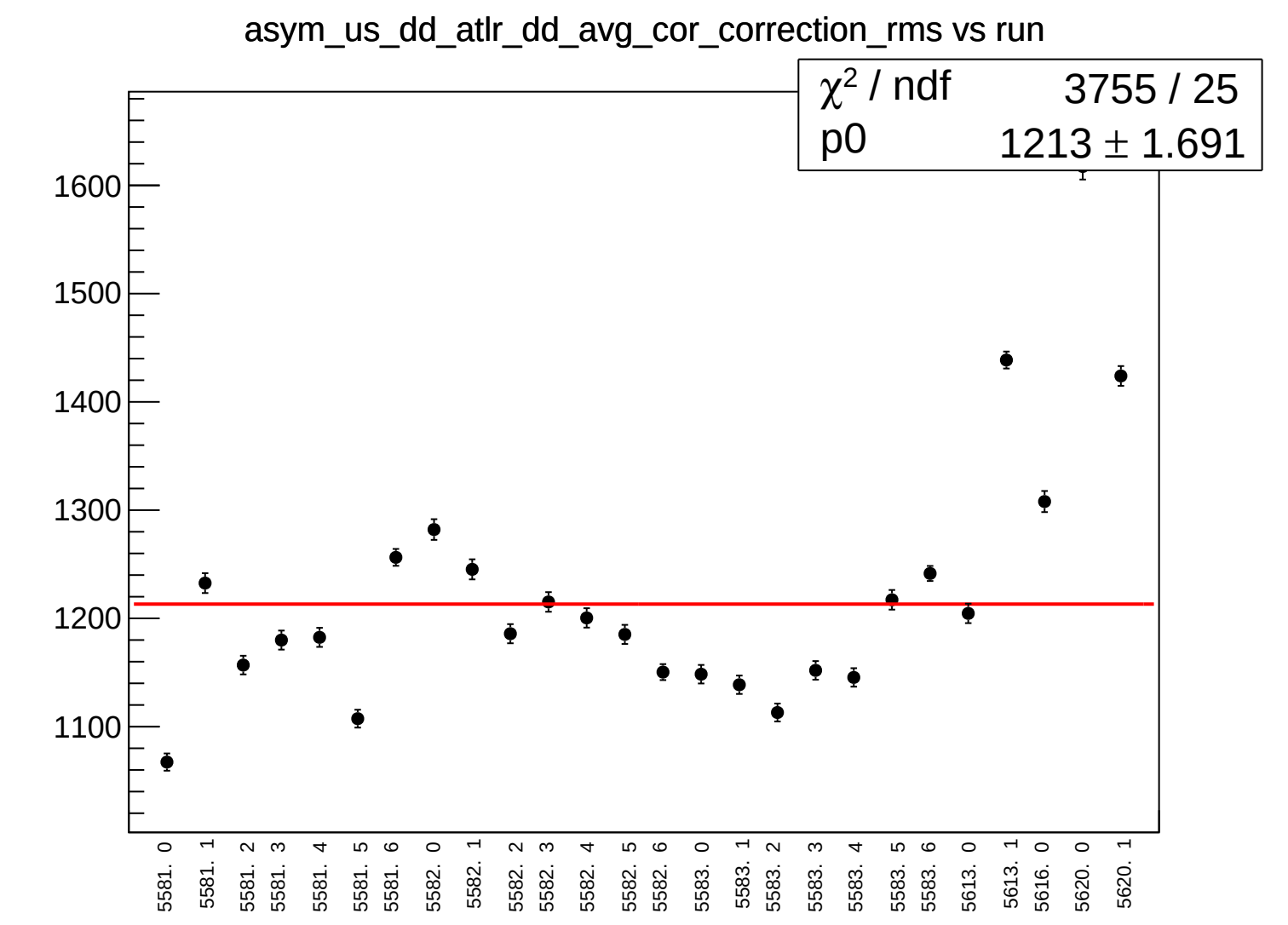

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 52.5 / 25
p0 5557 ± 3619
×10³
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 28.78
Std Dev 0

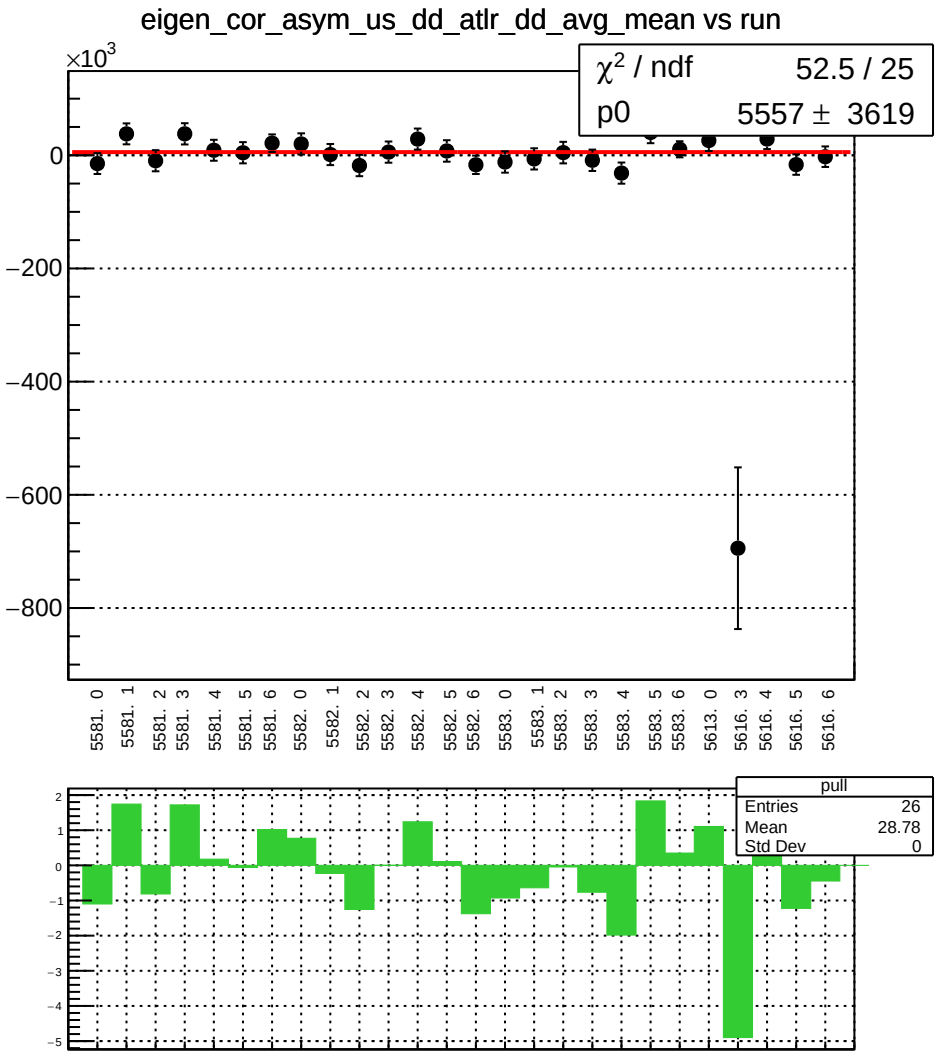

pull1D
Entries 26
Mean −0.1688
Std Dev 1.411

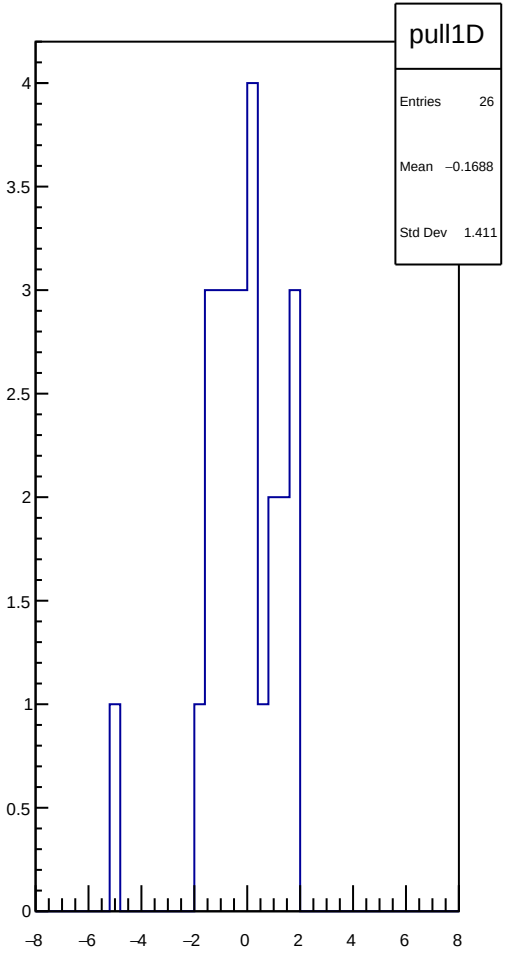

cor_asym_us_dd_atlr_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.617e+05 / 32
p0 1792 ± 2.559
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

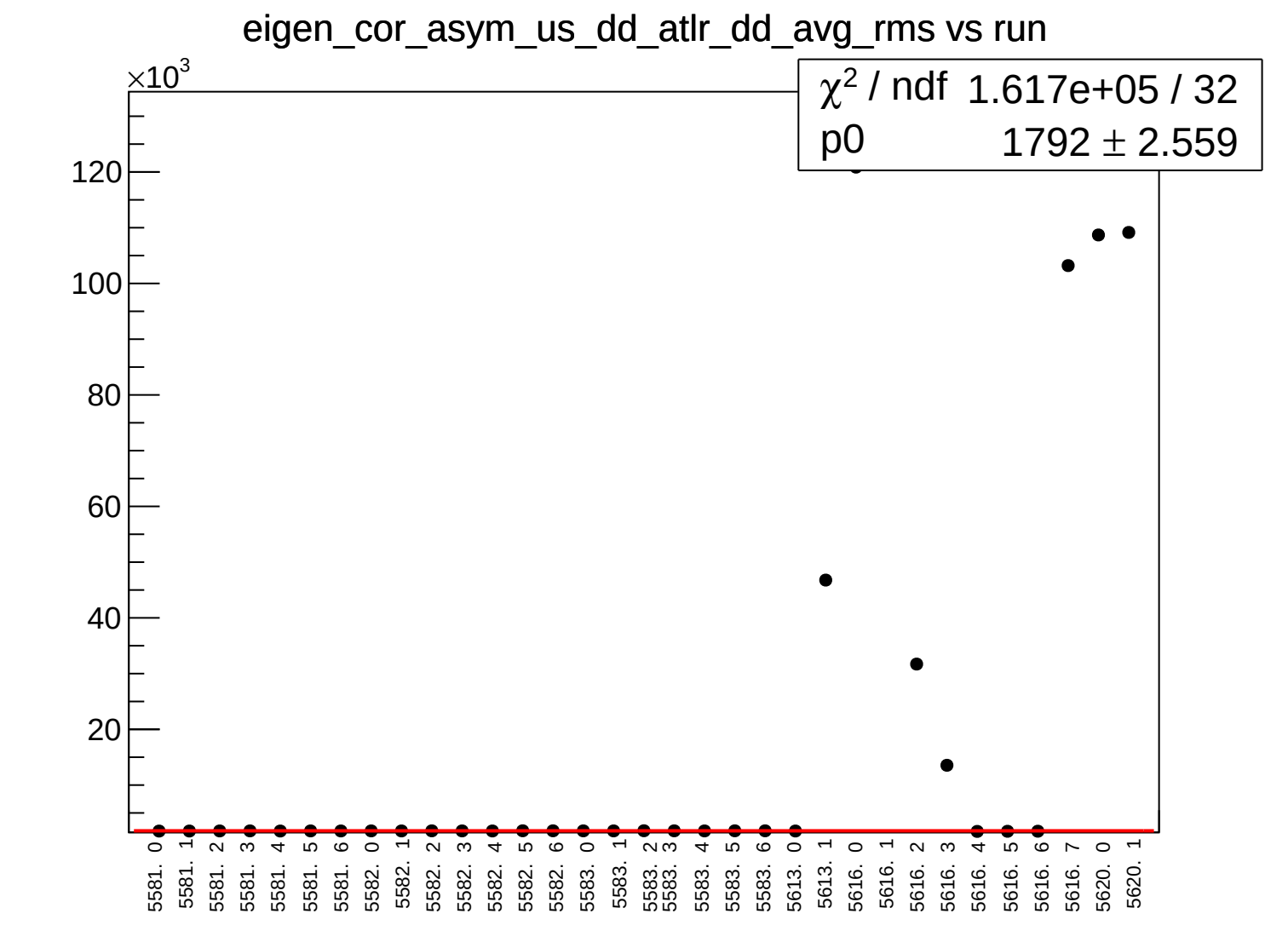

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 33.31 / 25
p0 −2124 ± 2392
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 169.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

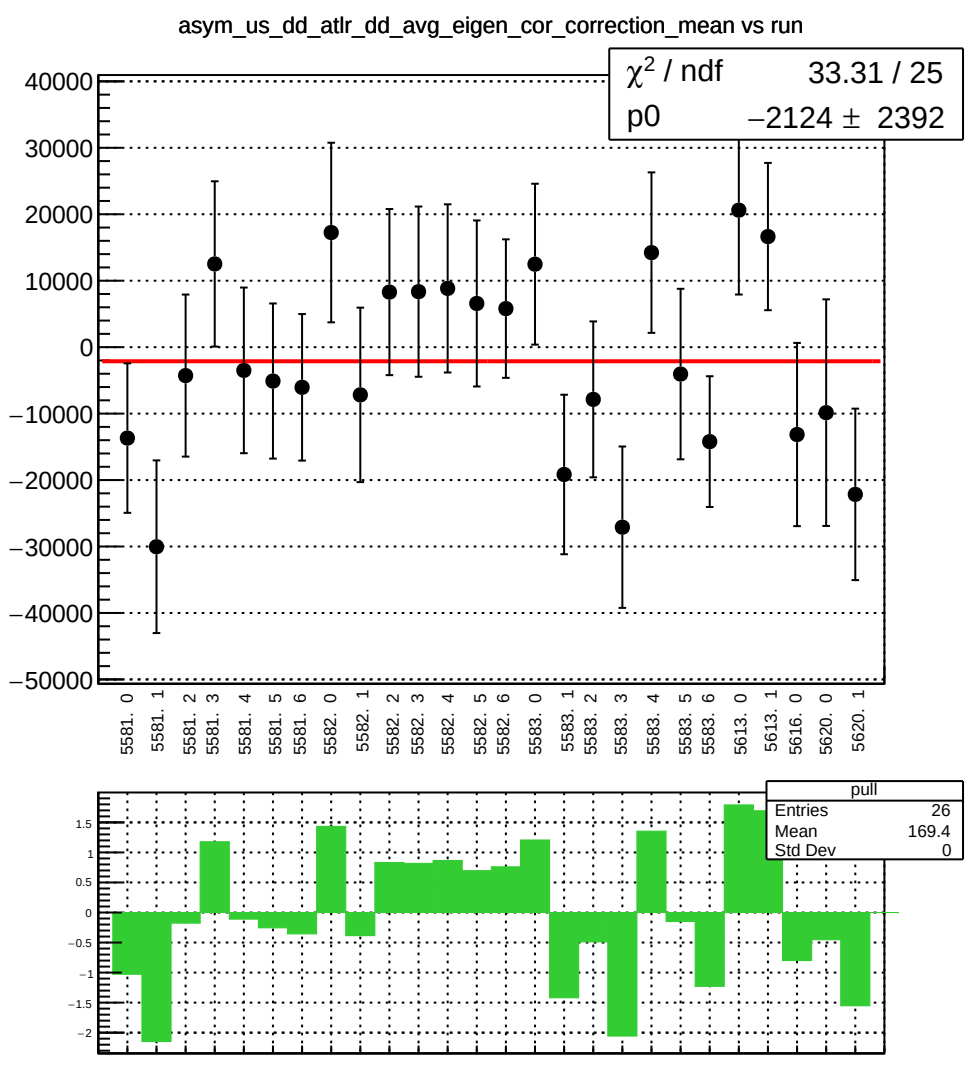

pull1D
Entries 26
Mean 0.0009434
Std Dev 1.132
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

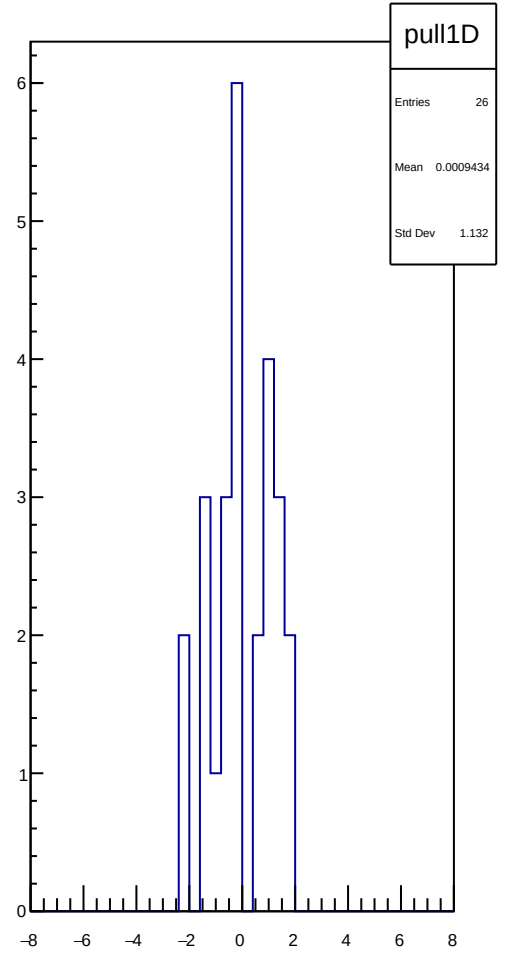

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 3755 / 25
p0 1213 ± 1.691
1600
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

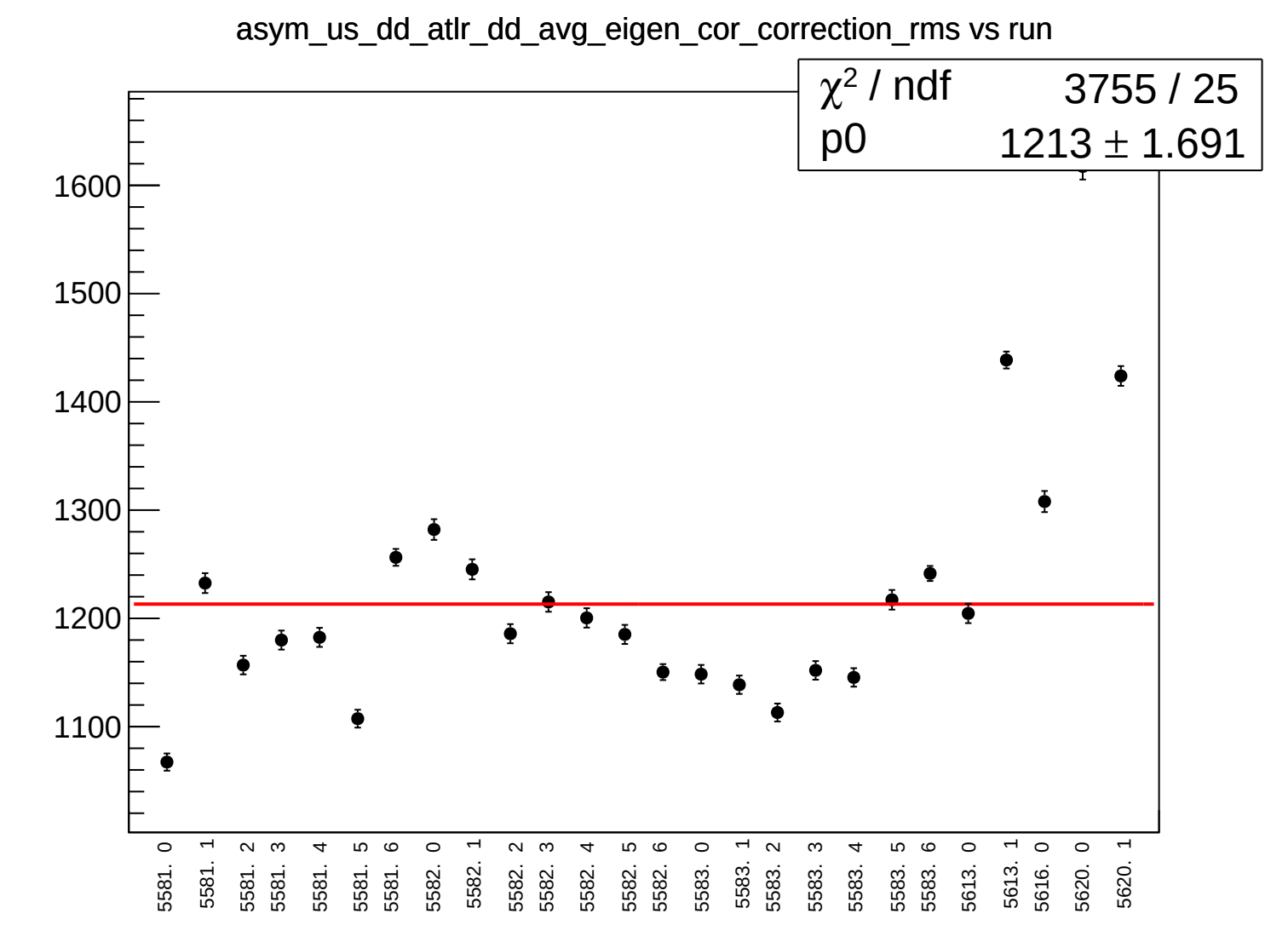

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 52.5 / 25
p0 5557 ± 3619
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 28.78
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

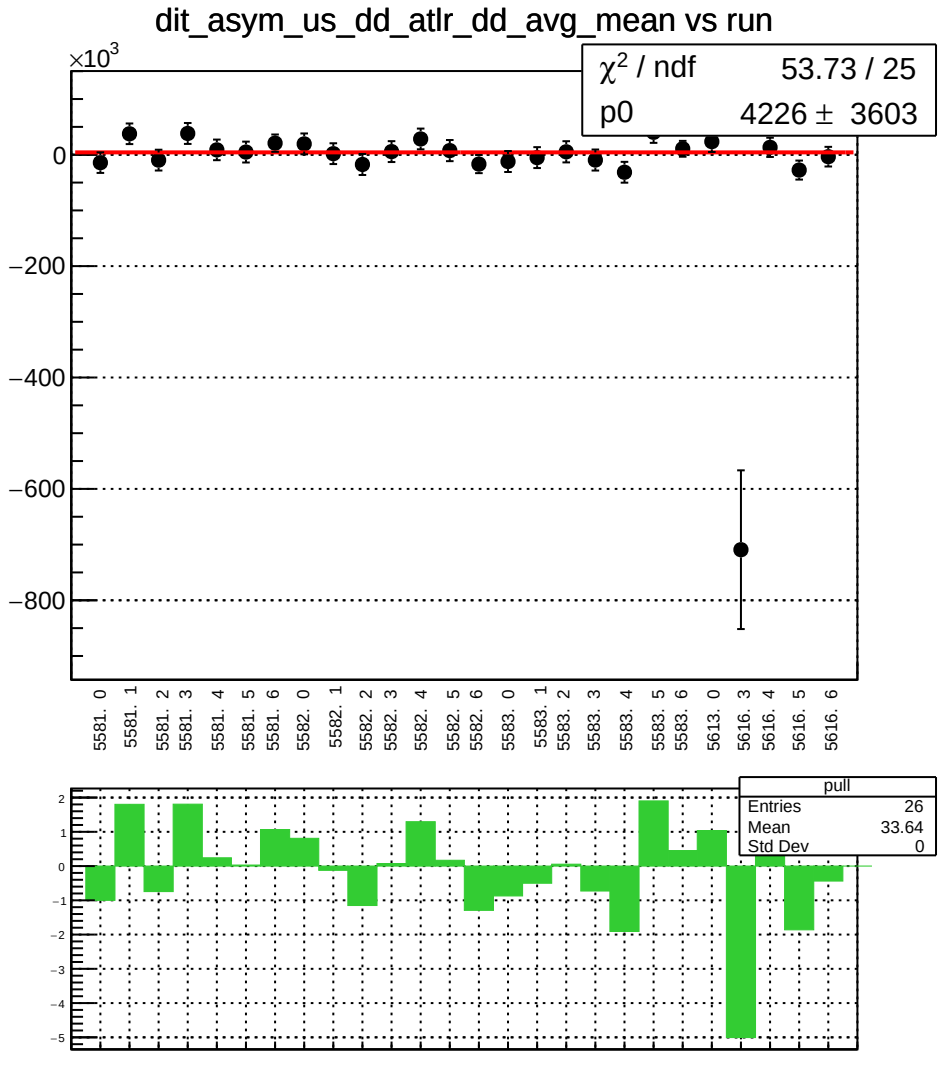

pull1D
Entries 26
Mean −0.1688
Std Dev 1.411
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

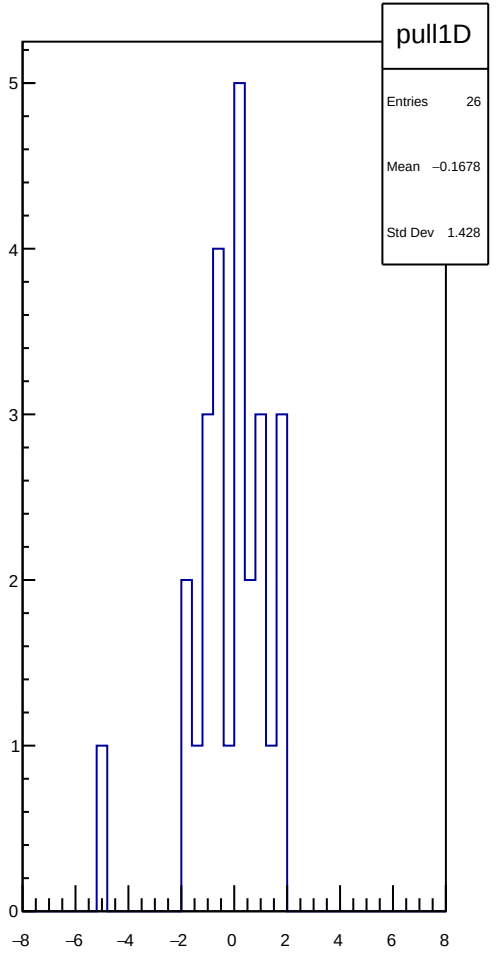

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.617e+05 / 32
p0 1792 ± 2.559
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

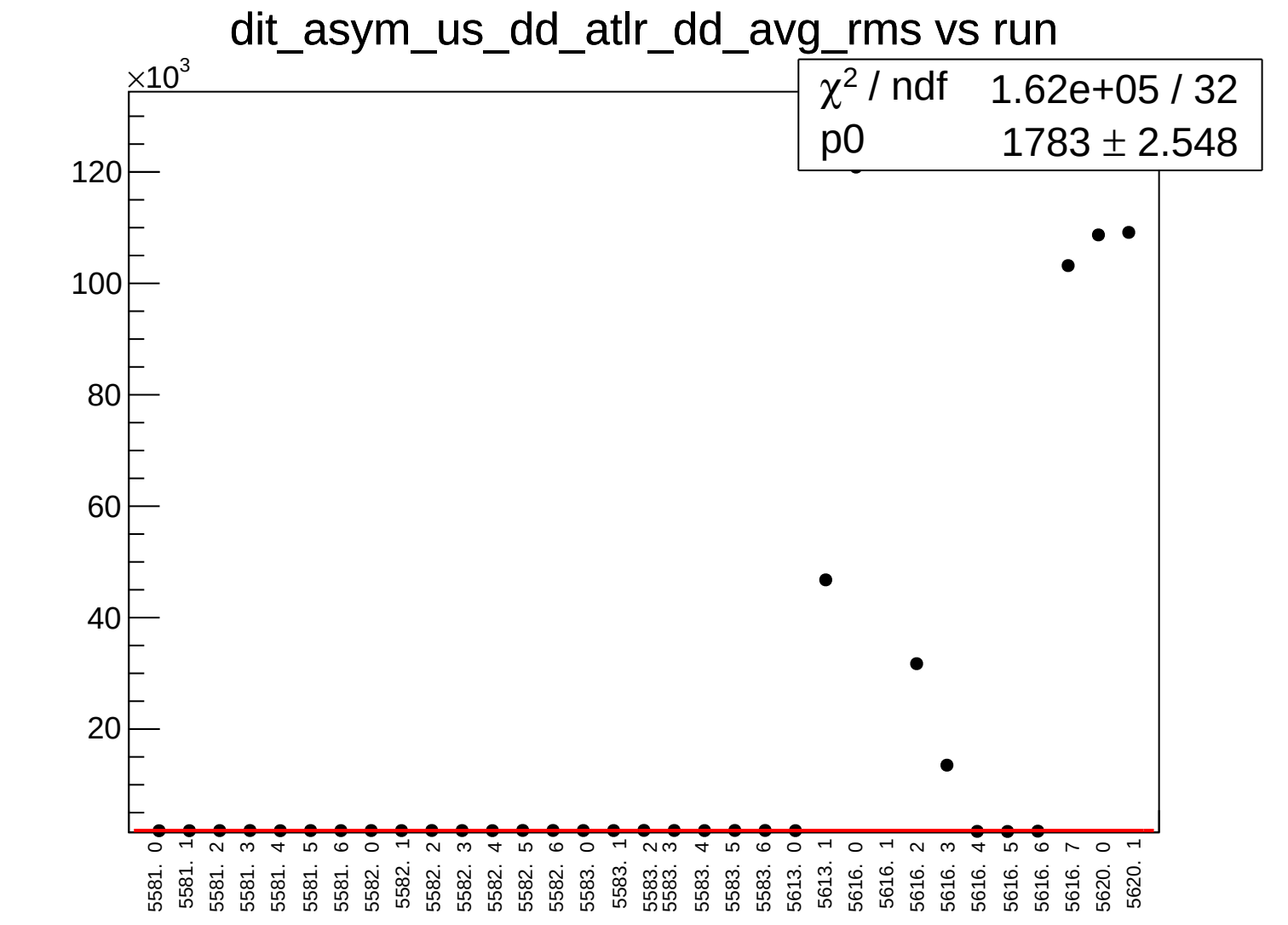

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 33.31 / 25
p0 −2124 ± 2392
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 169.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

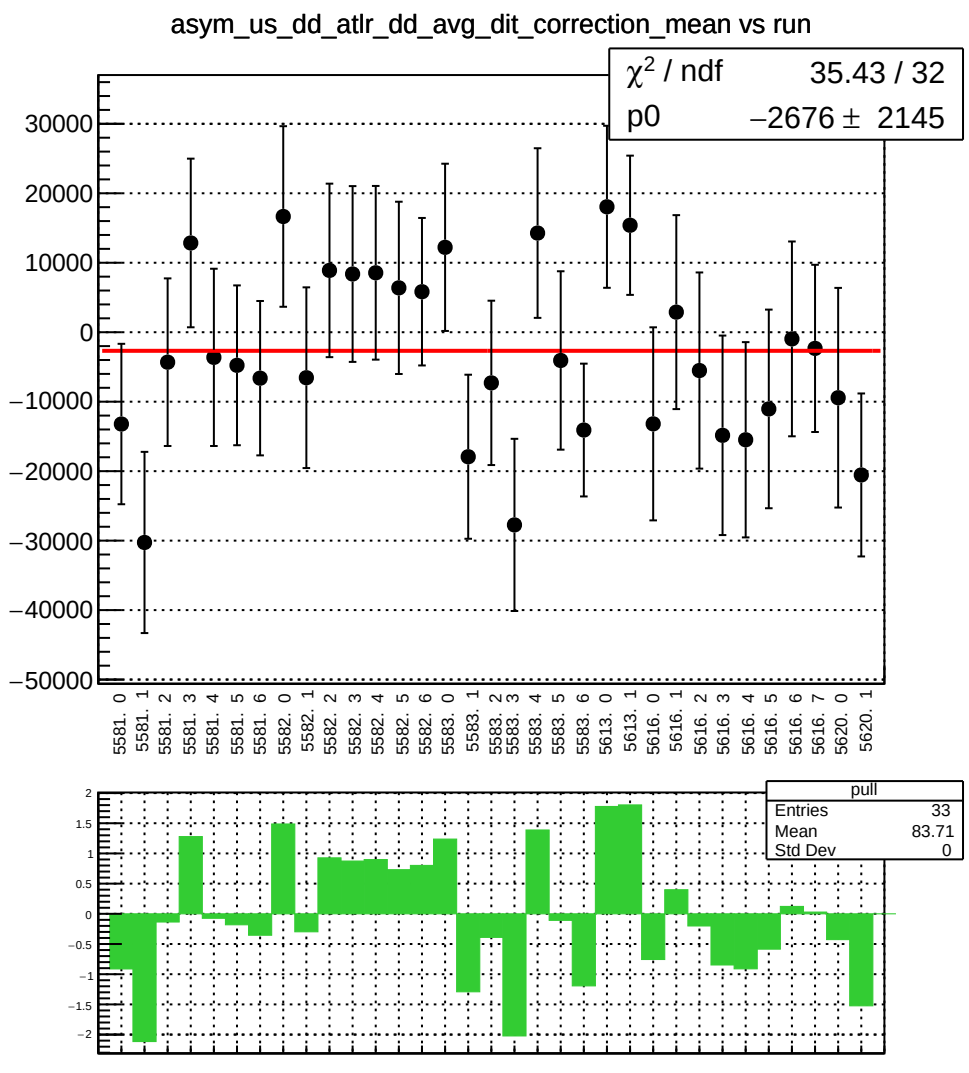

pull1D
Entries 26
Mean 0.0009434
Std Dev 1.132
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

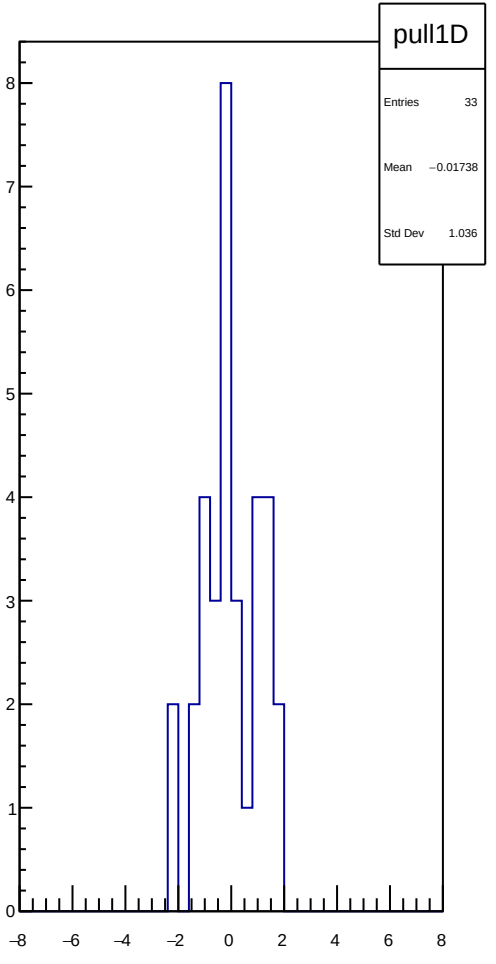

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3755 / 25
p0 1213 ± 1.691
1600
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

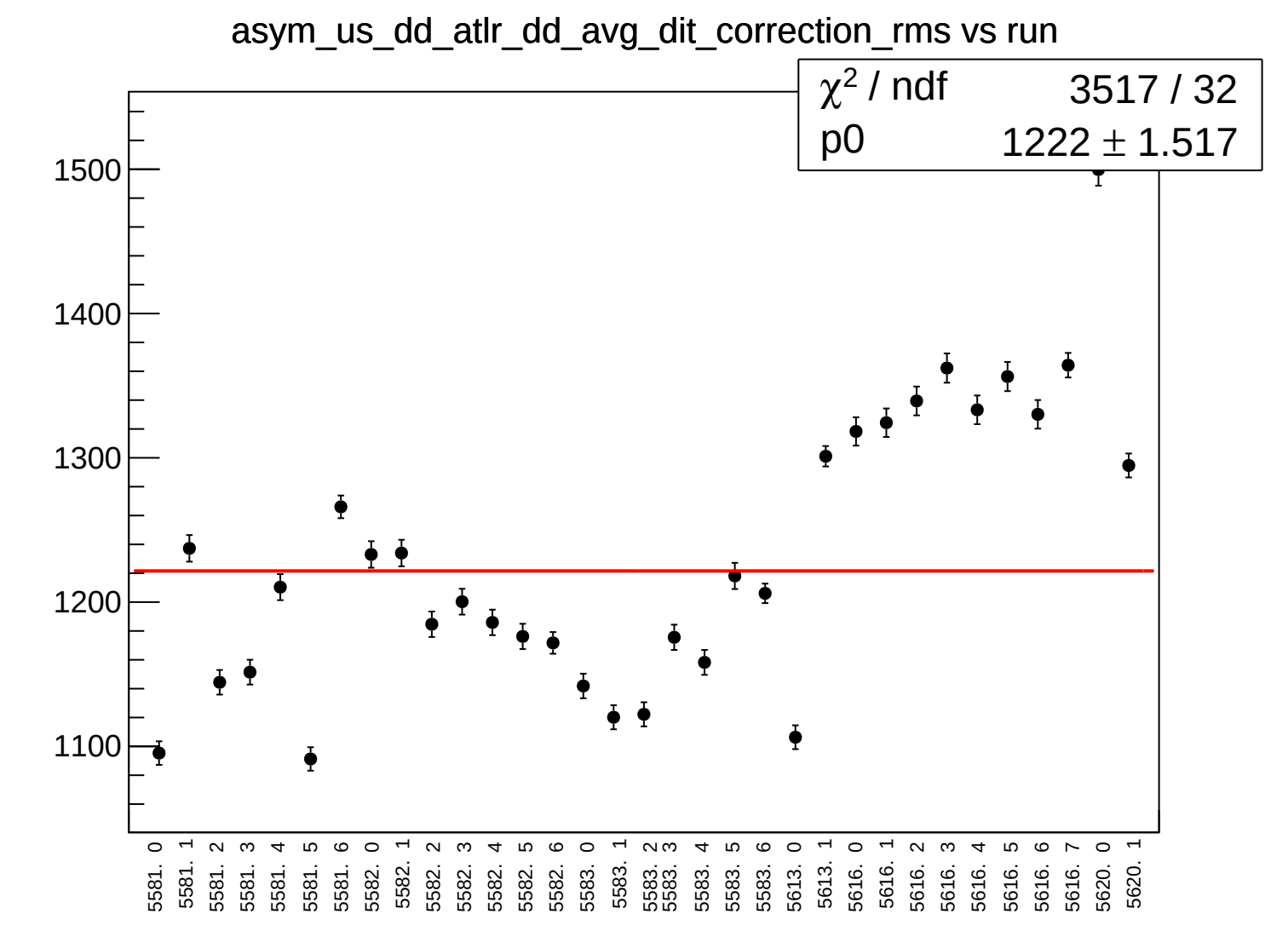

dit_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 53.73 / 25
p0 4226 ± 3603
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 33.64
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

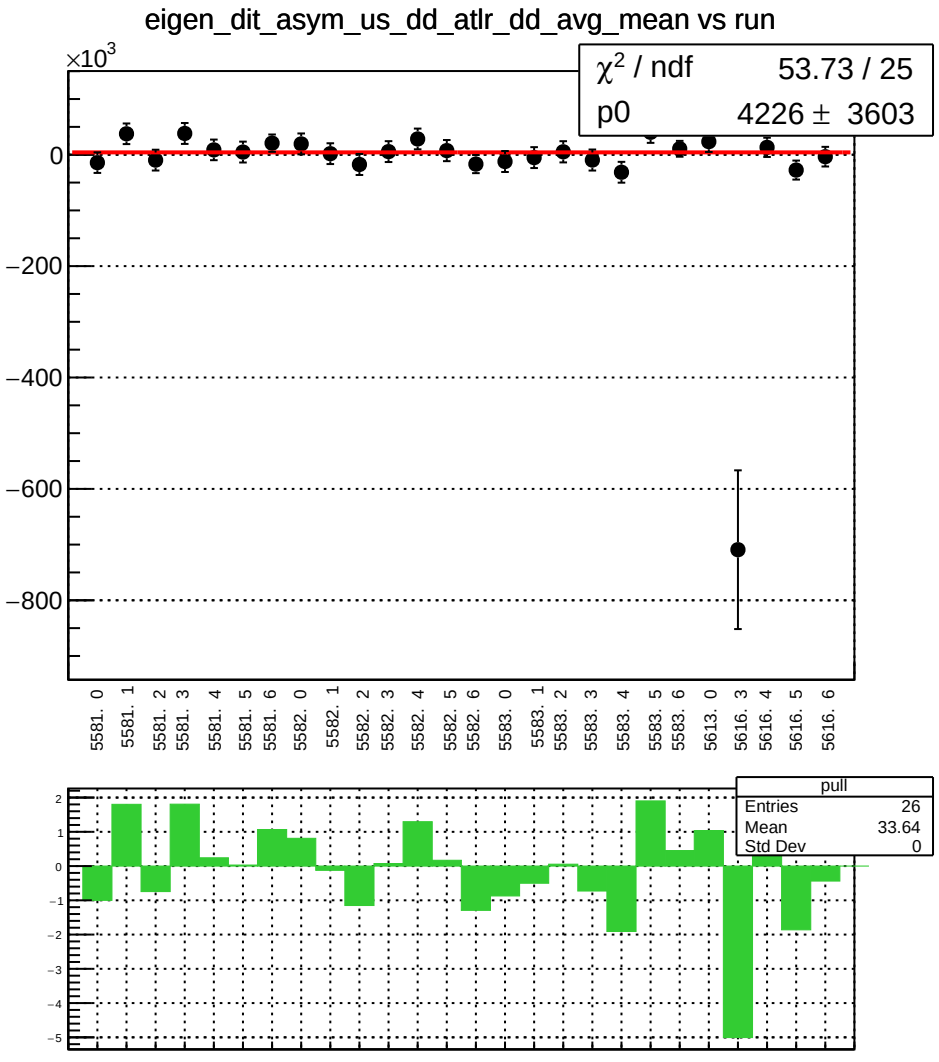

pull1D
Entries 26
Mean −0.1678
Std Dev 1.428
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

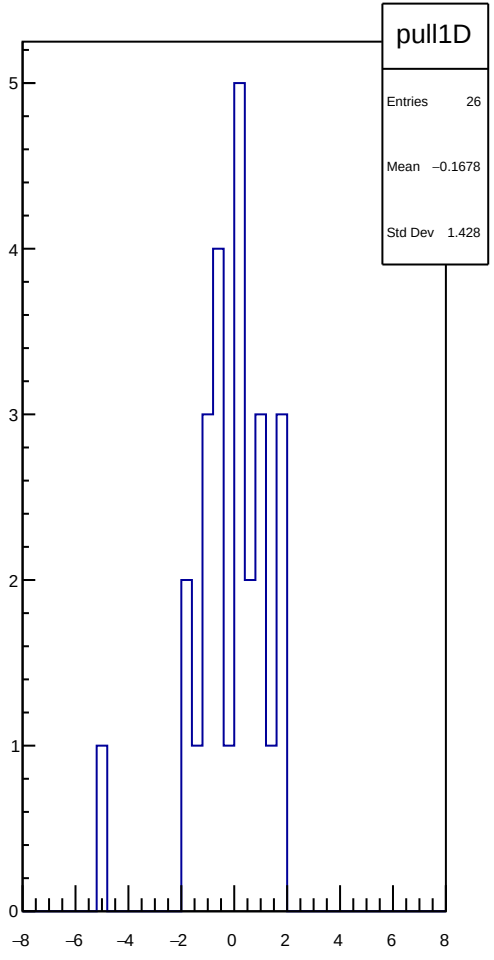

dit_asym_us_dd_atlr_dd_avg_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 1.62e+05 / 32
p0 1783 ± 2.548
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

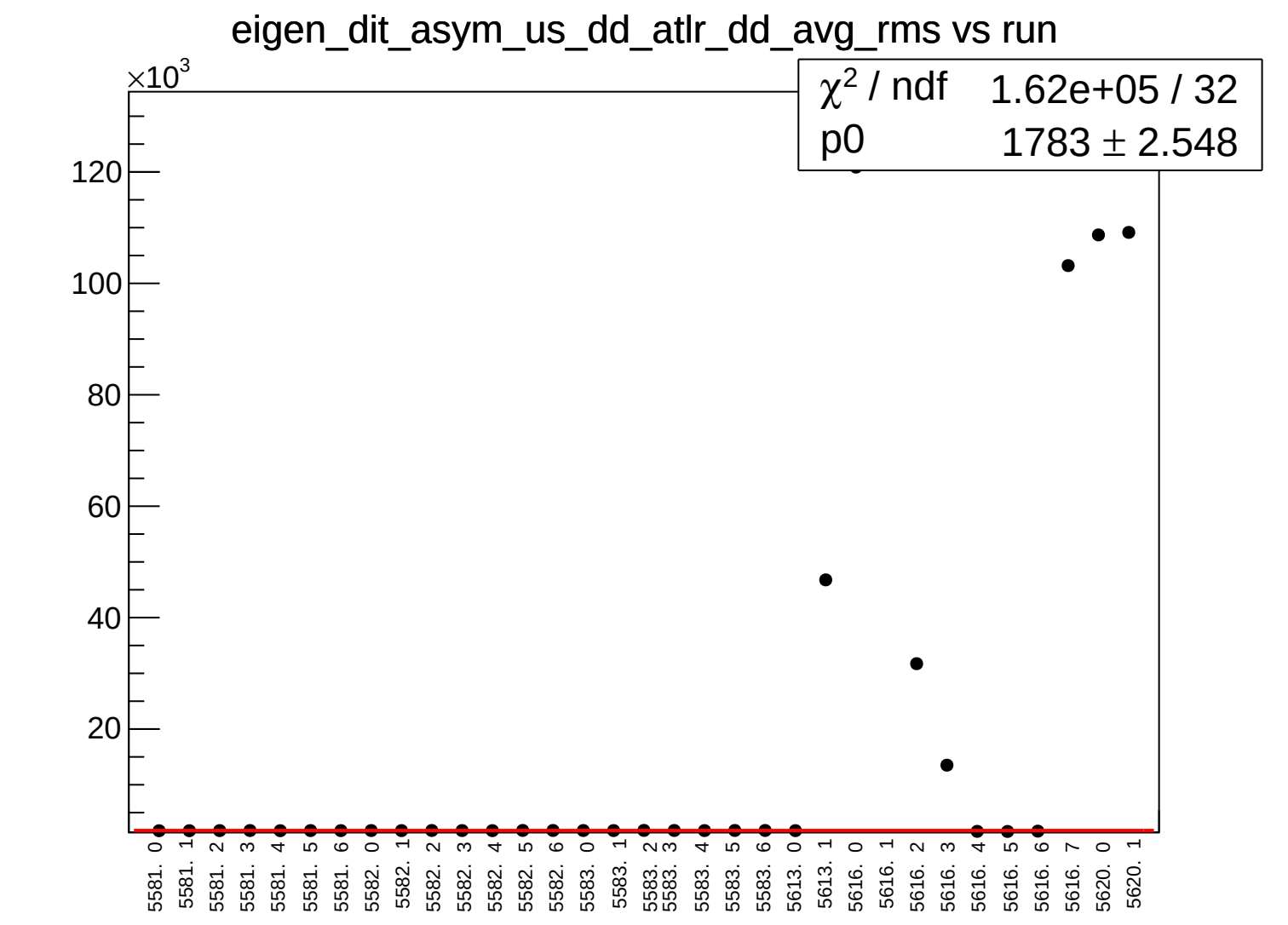

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 35.43 / 32
p0 −2676 ± 2145
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 83.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

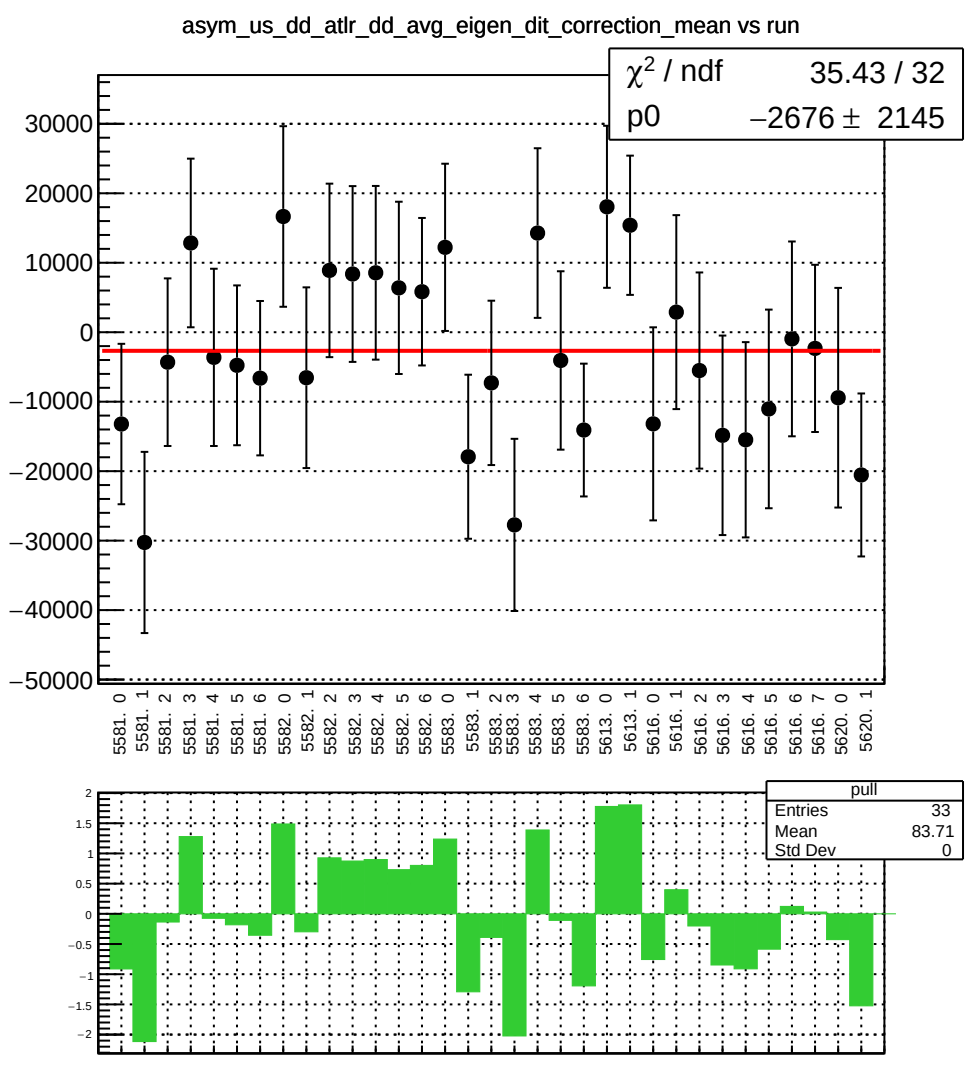

pull1D
Entries 33
Mean −0.01738
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

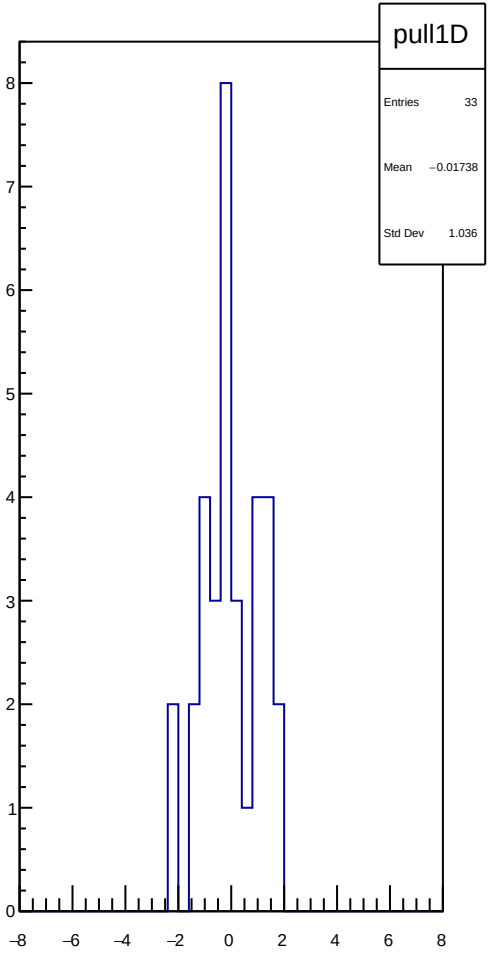

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 3517 / 32
p0 1222 ± 1.517
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

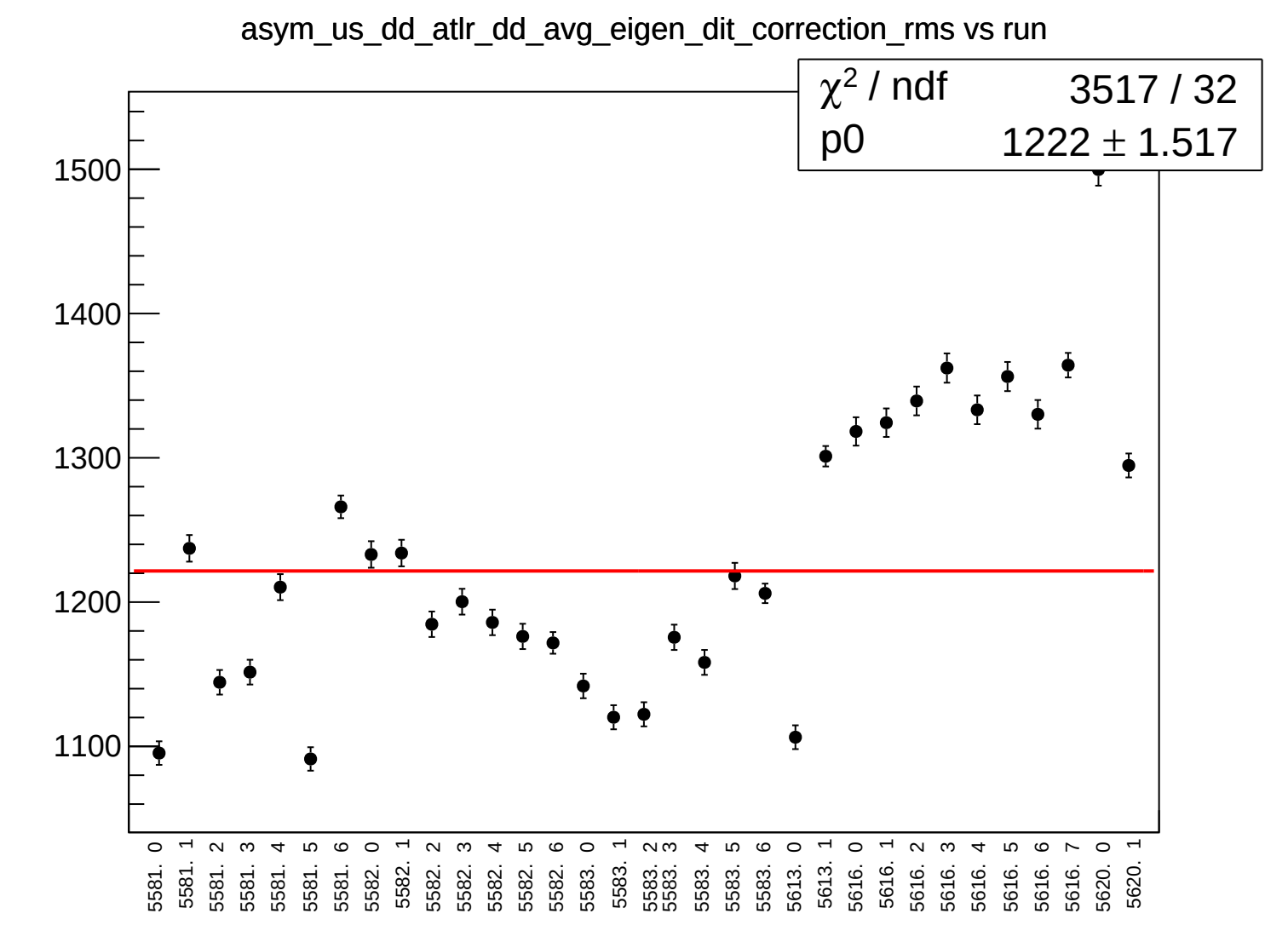

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 53.73 / 25
p0 4226 ± 3603
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 33.64
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

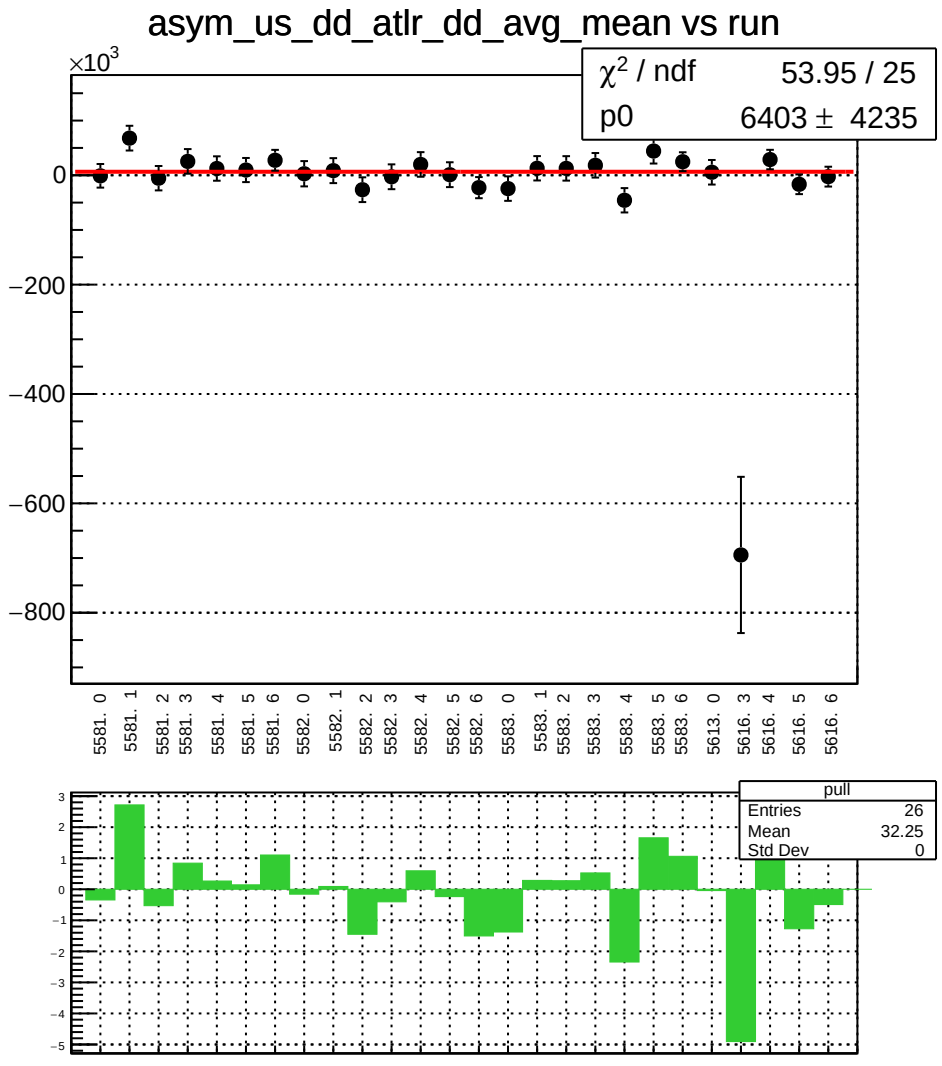

pull1D
Entries 26
Mean −0.1678
Std Dev 1.428
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

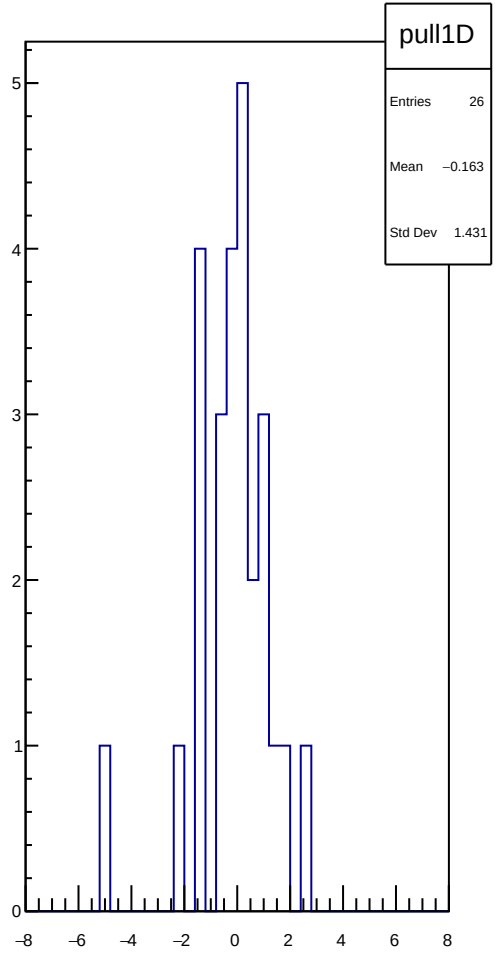

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.62e+05 / 32
p0 1783 ± 2.548
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

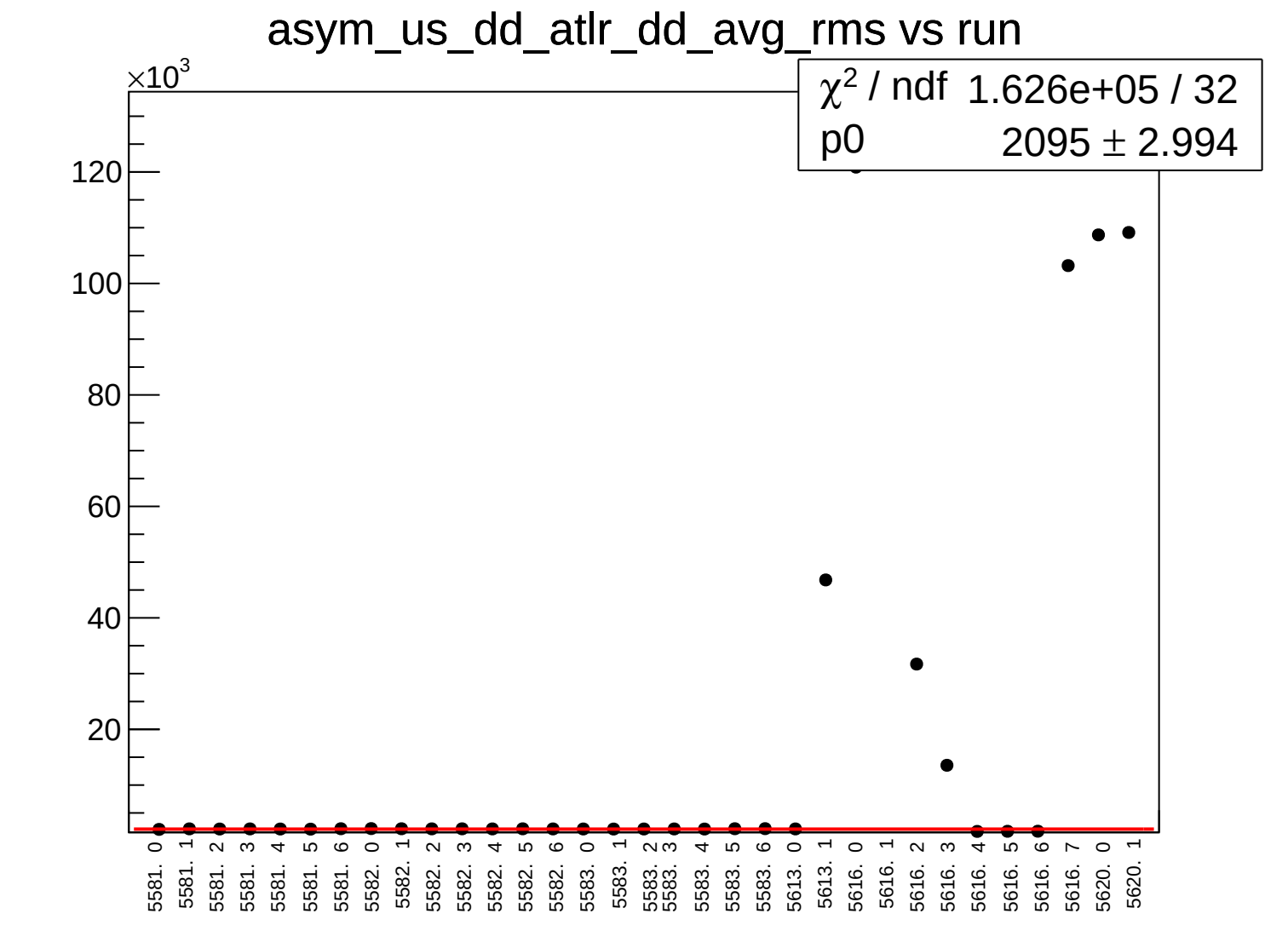

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 35.43 / 32
p0 −2676 ± 2145
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 83.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

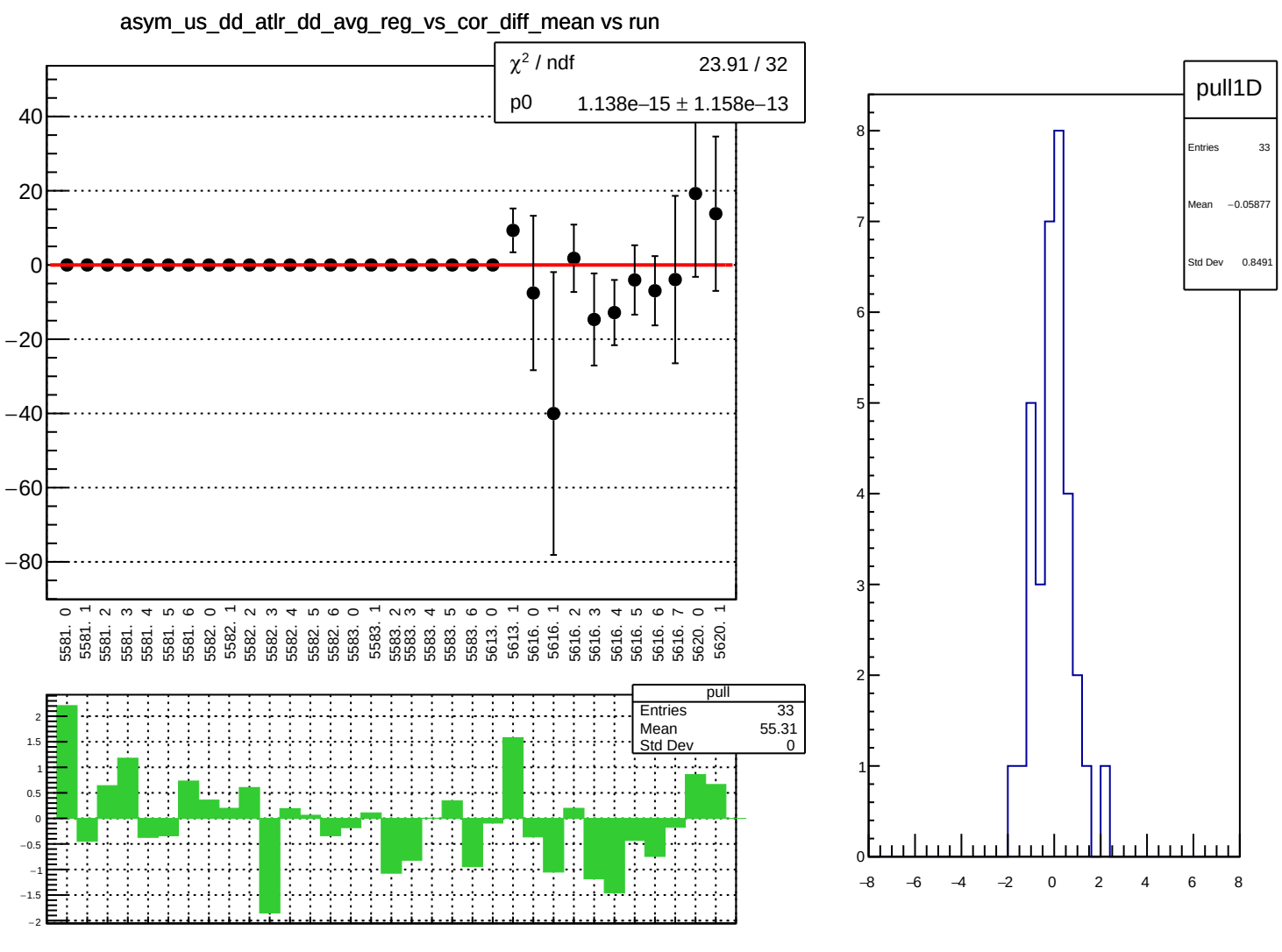

pull1D
Entries 33
Mean −0.01738
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

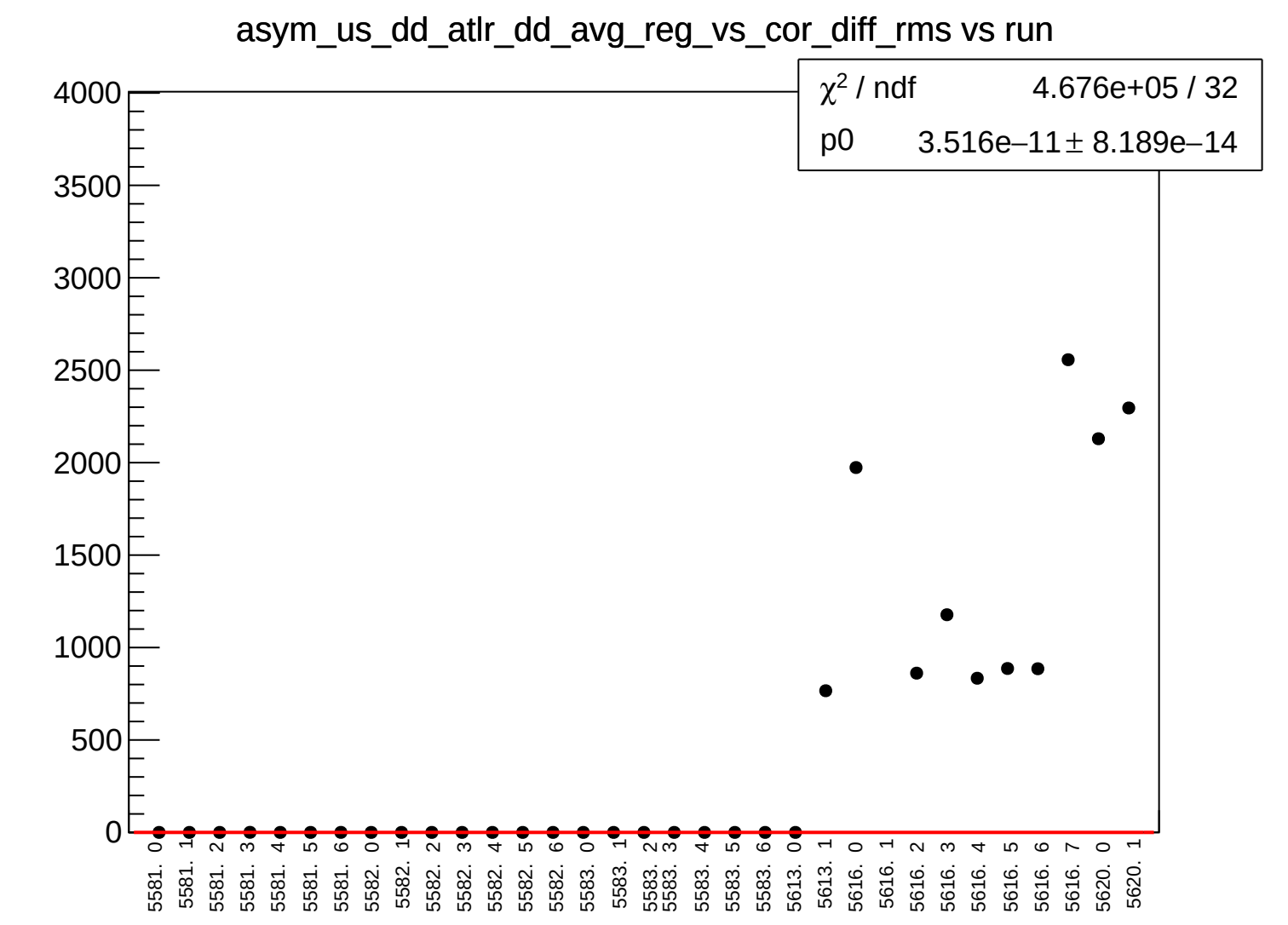

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3517 / 32
p0 1222 ± 1.517
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

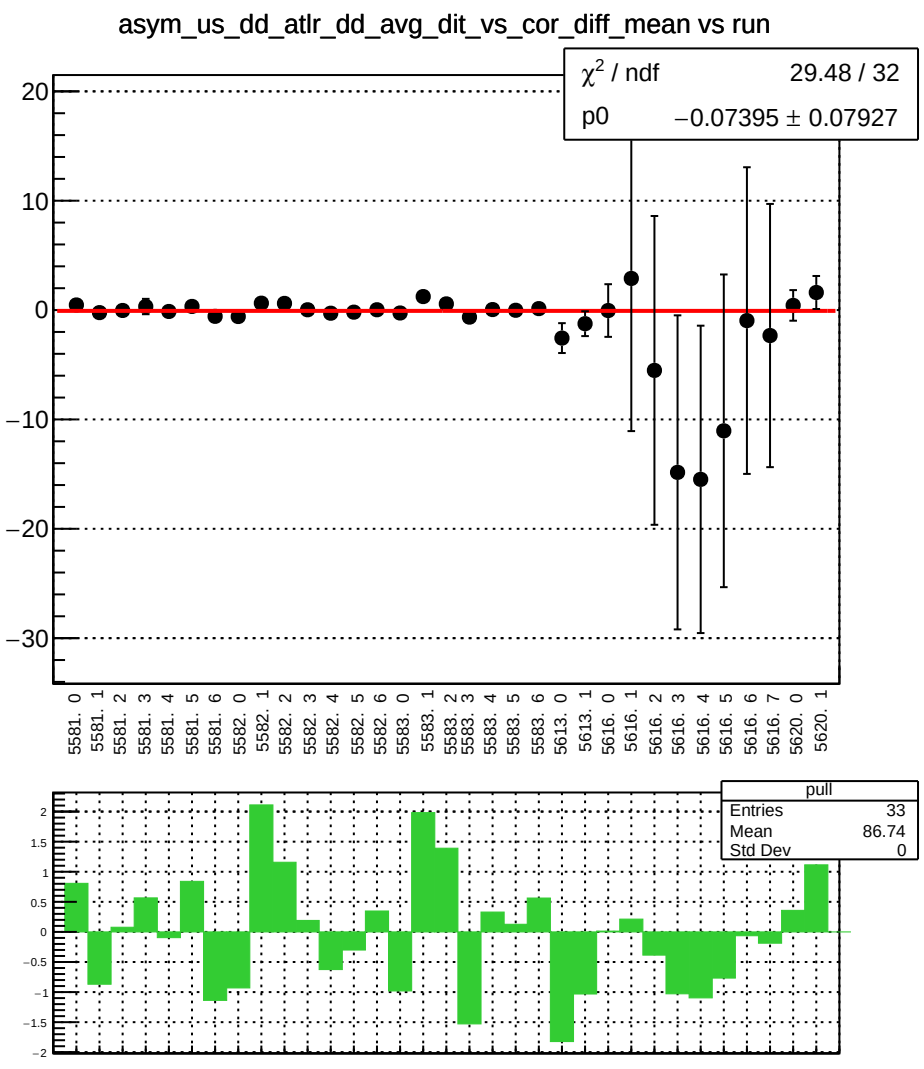

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 53.95 / 25
p0 6403 ± 4235
×10³
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 32.25
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5

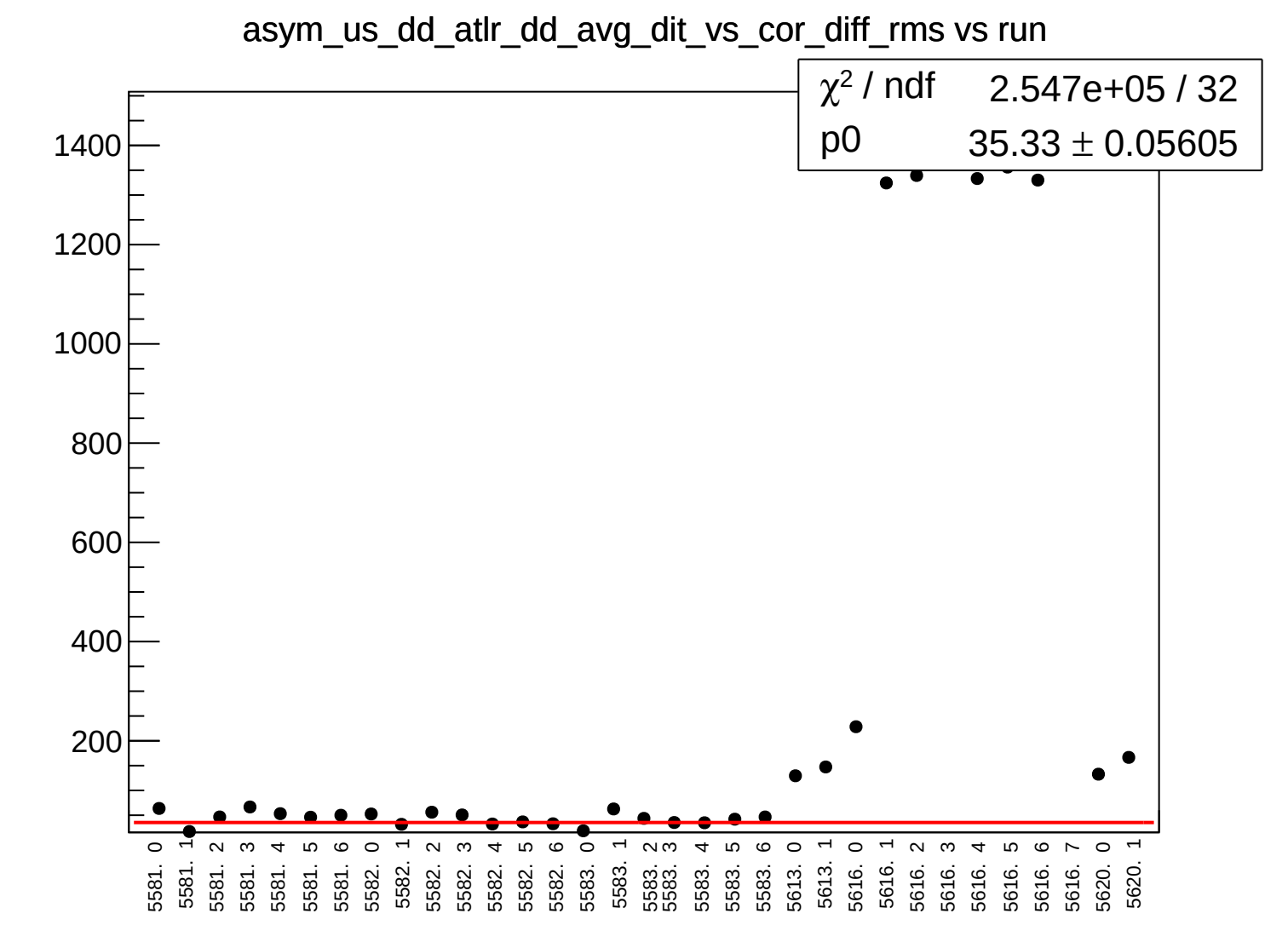

pull1D
Entries 26
Mean −0.163
Std Dev 1.431
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

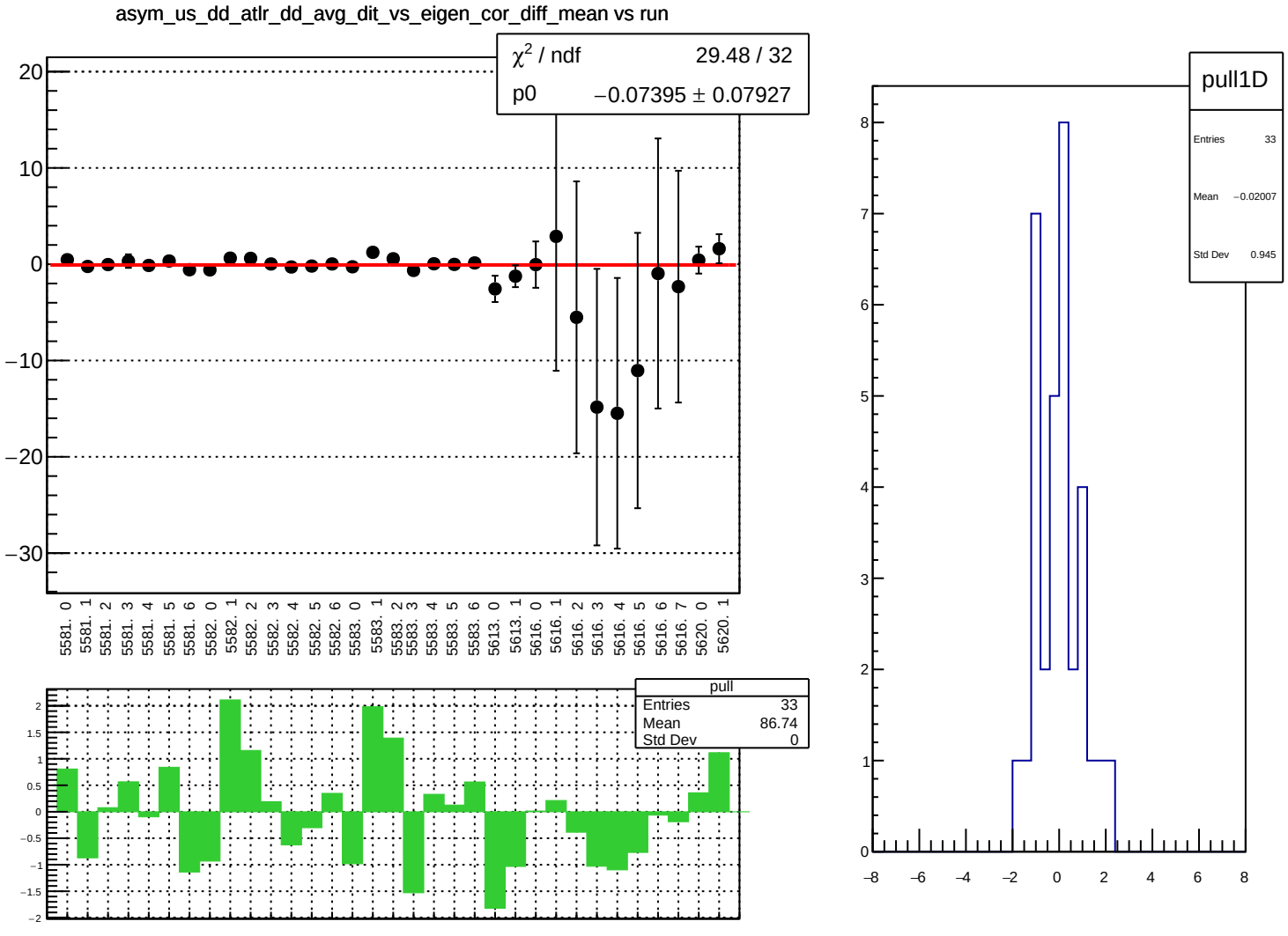

asym_us_dd_atlr_dd_avg_rms vs run
×10^3
χ^2 / ndf 1.626e+05 / 32
p0 2095 ± 2.994
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

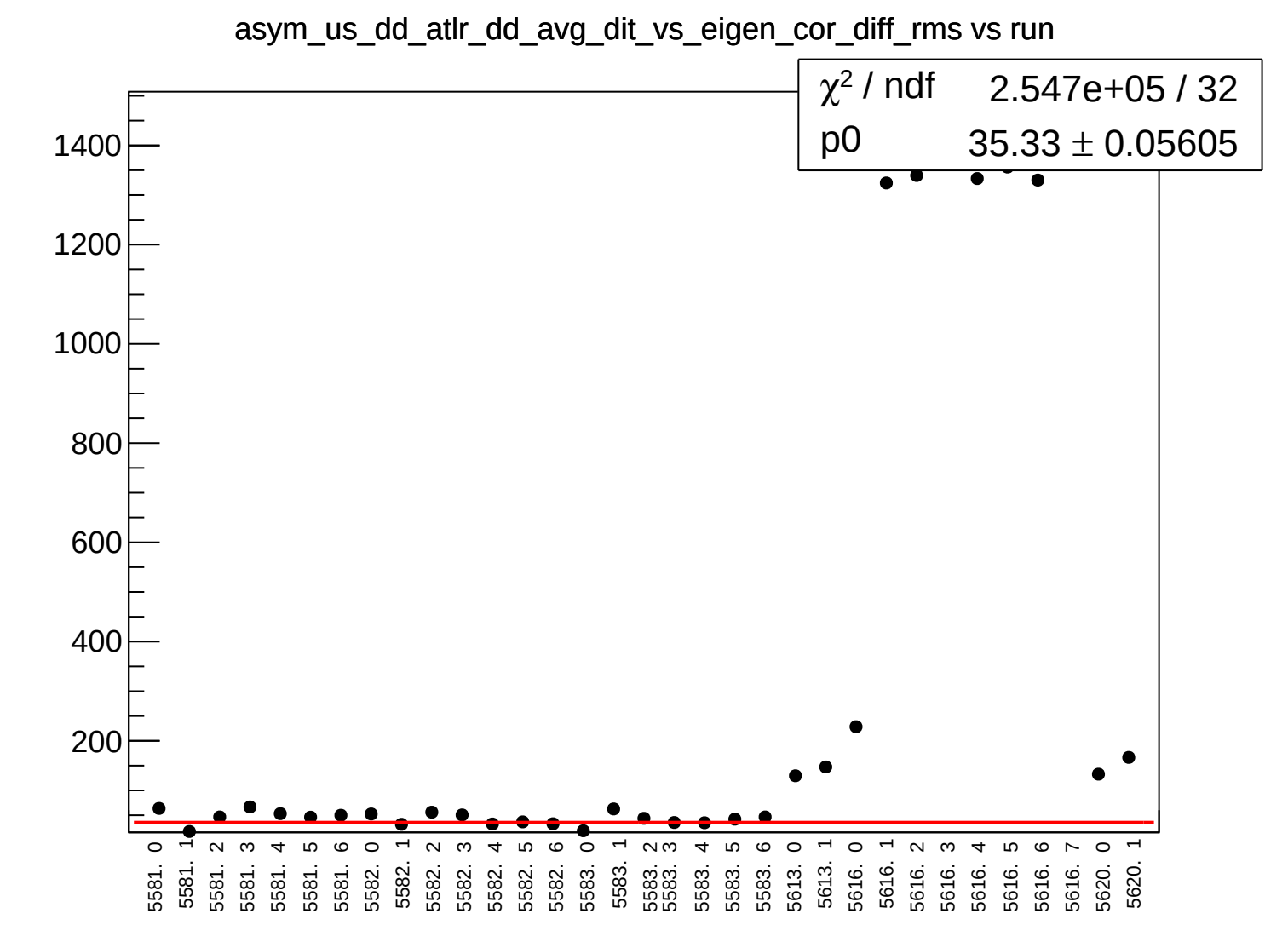

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 23.91 / 32
p0 1.138e−15 ± 1.158e−13
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 55.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.05877
Std Dev 0.8491
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

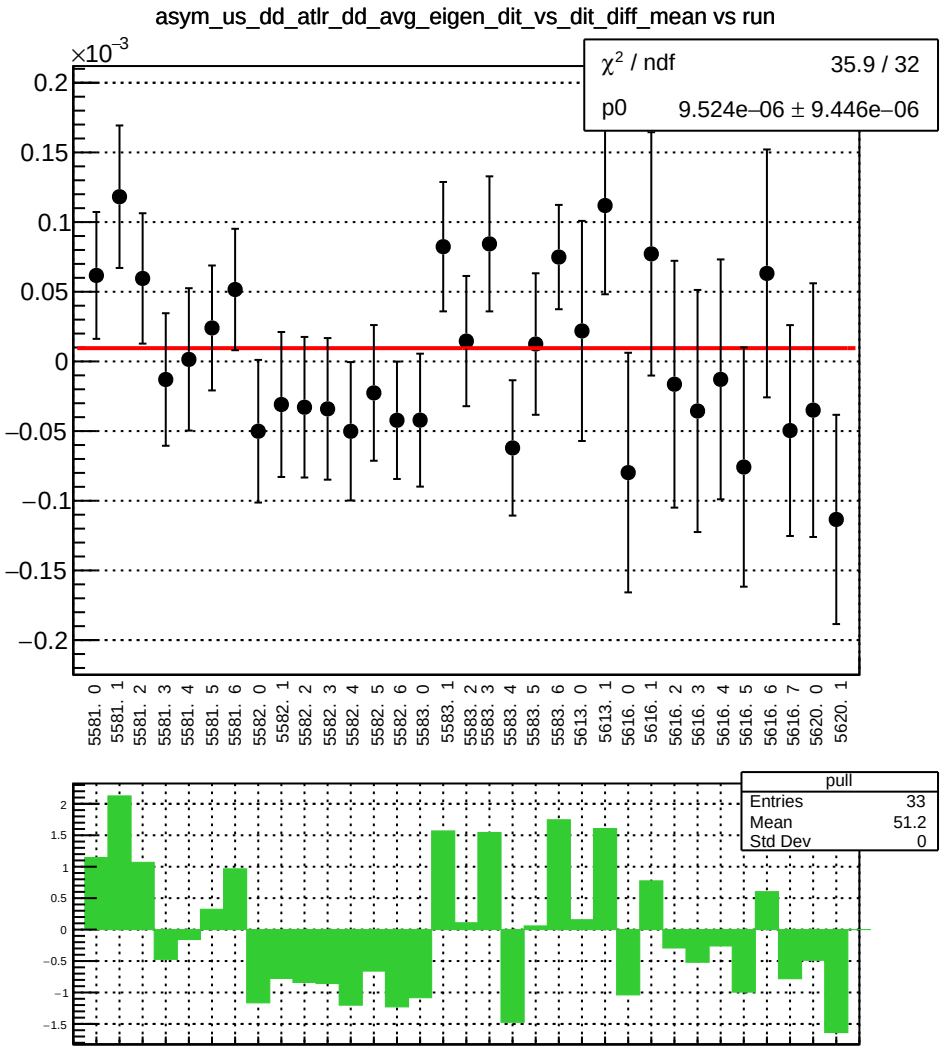

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.676e+05 / 32
p0 3.516e−11 ± 8.189e−14
4000
3500
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

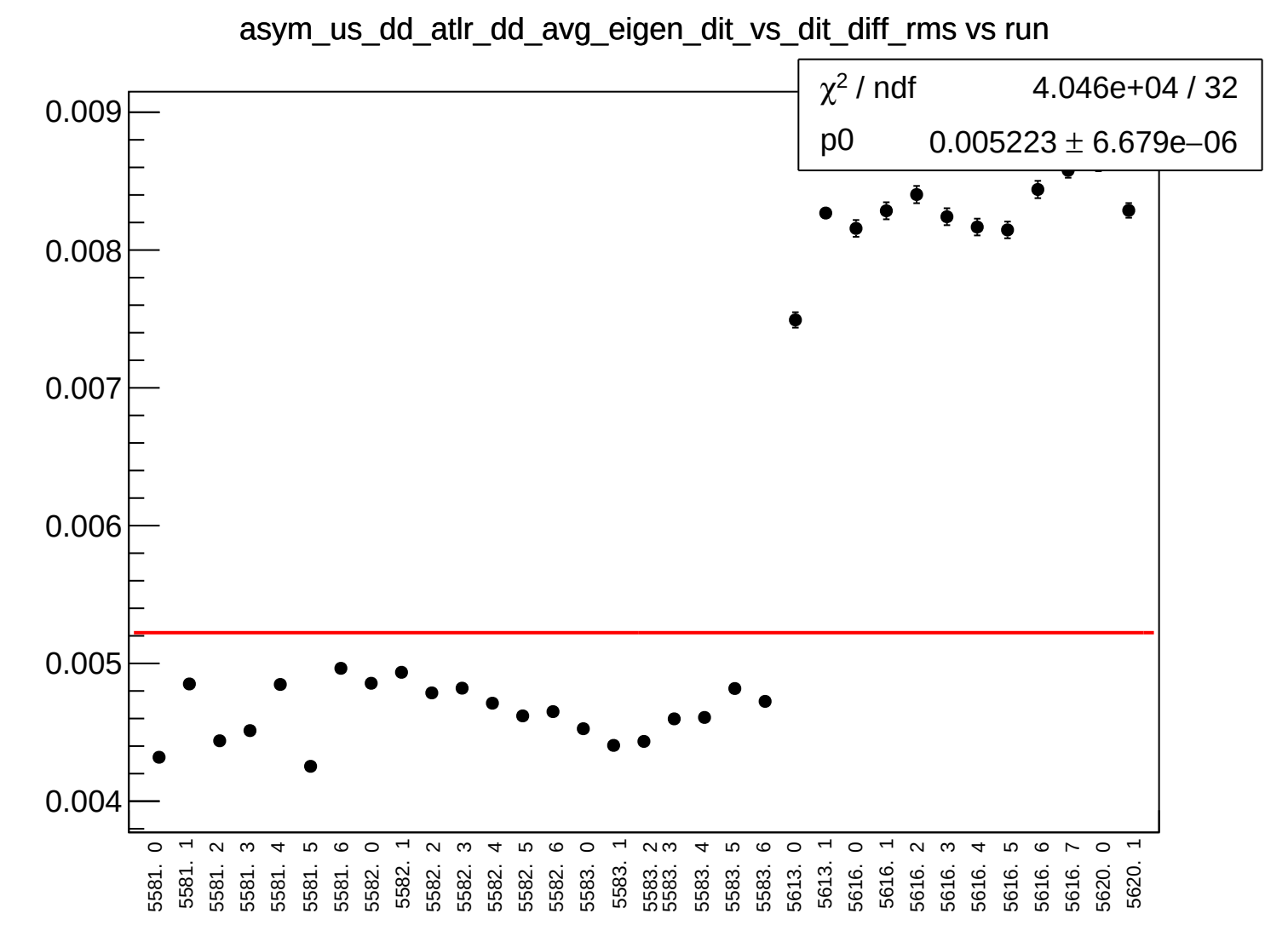

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 29.48 / 32
p0 −0.07395 ± 0.07927
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 86.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02007
Std Dev 0.945
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

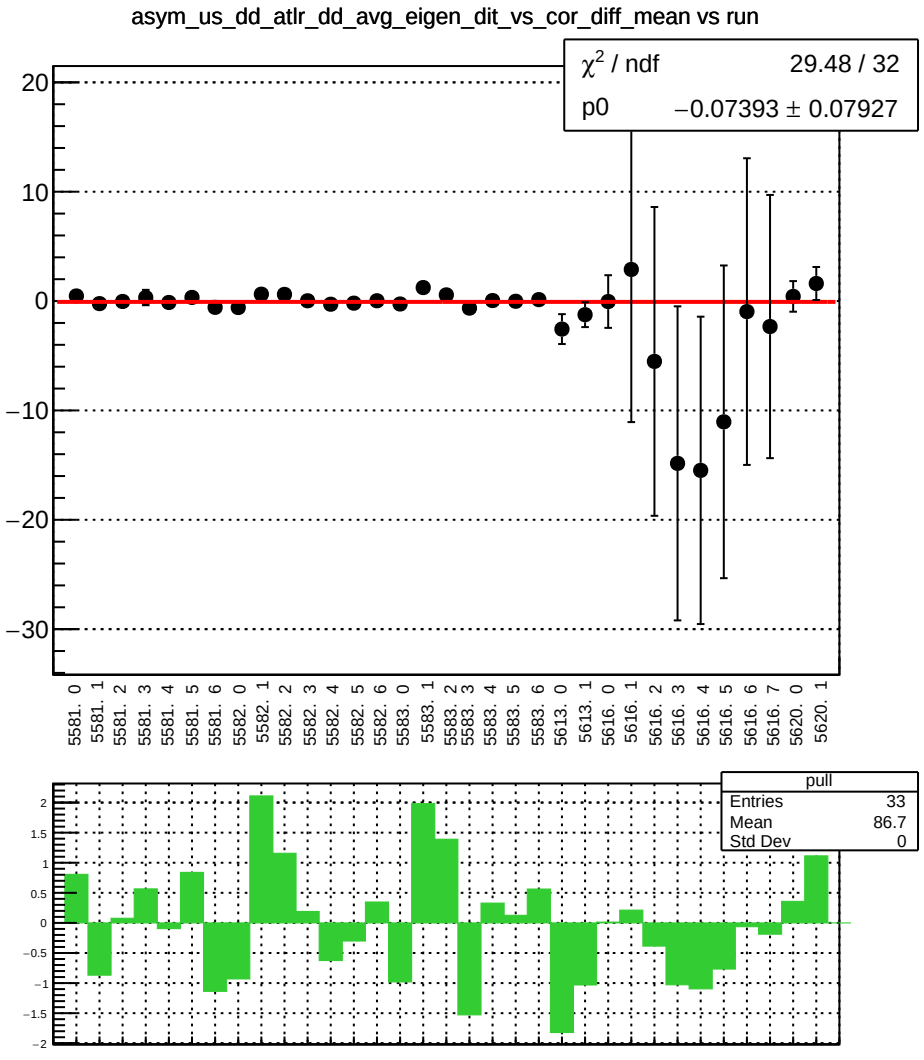

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.547e+05 / 32
p0 35.33 ± 0.05605
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

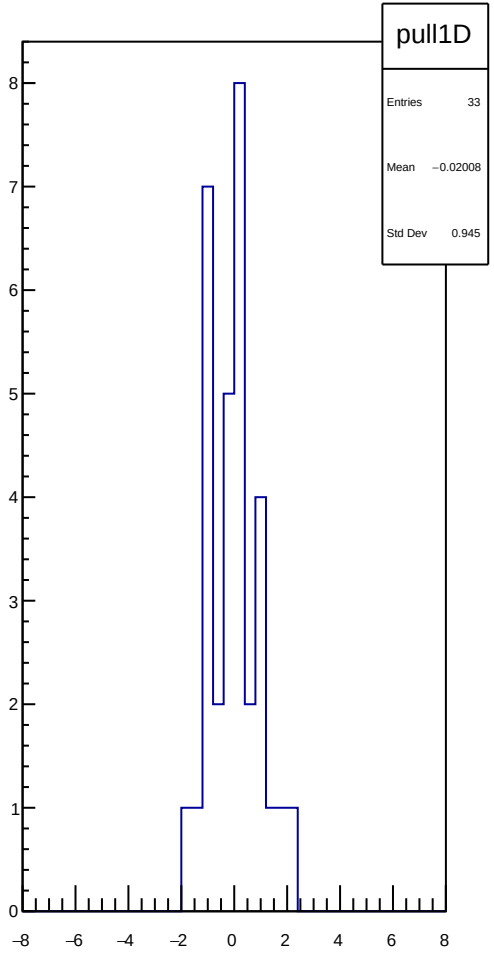

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.48 / 32
p0 −0.07395 ± 0.07927
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 86.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02007
Std Dev 0.945
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

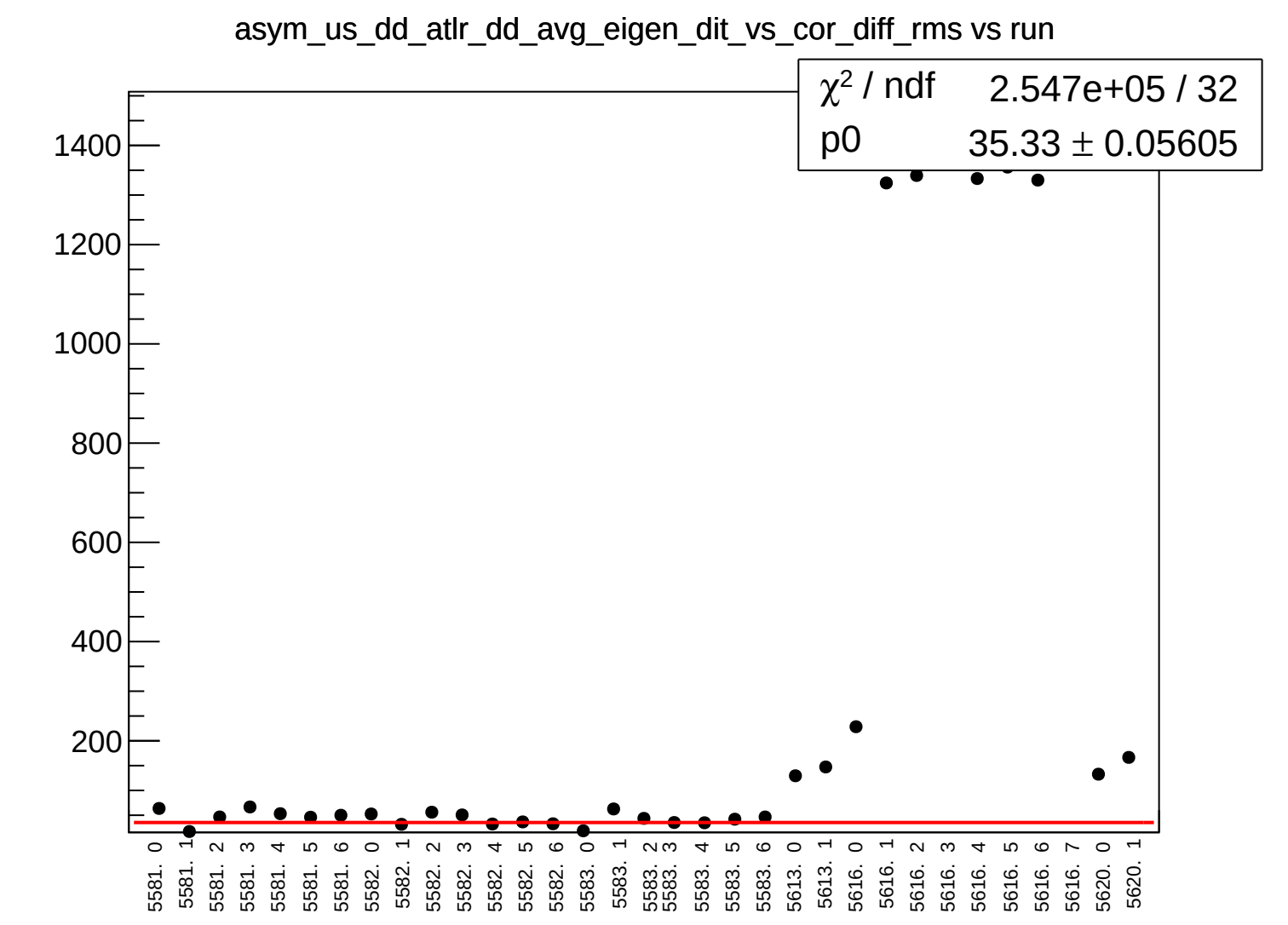

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.547e+05 / 32
p0 35.33 ± 0.05605
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

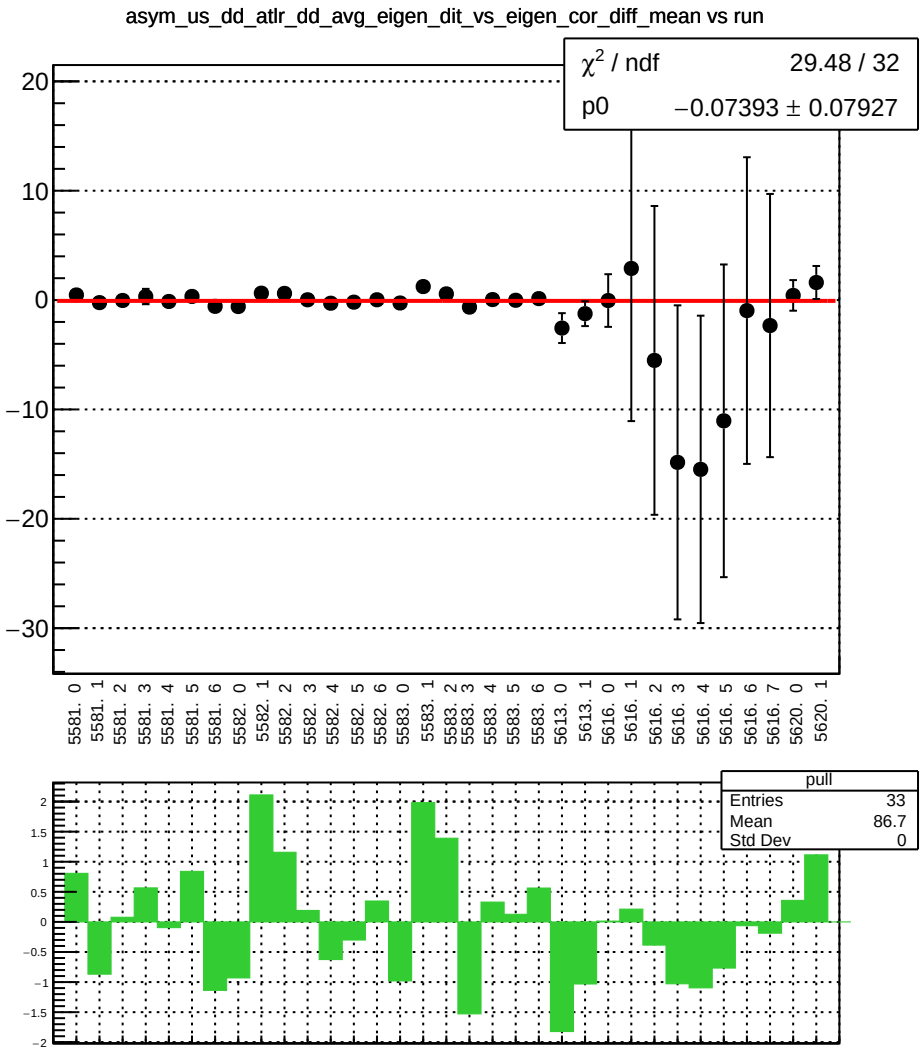

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.9 / 32
p0 9.524e−06 ± 9.446e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 51.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.06449
Std Dev 1.041
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

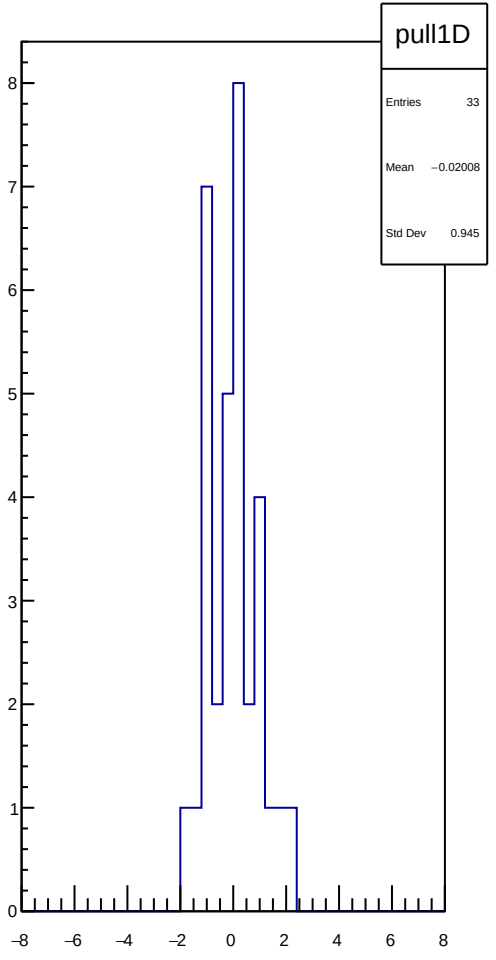

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.046e+04 / 32
p0 0.005223 ± 6.679e−06
0.009
0.008
0.007
0.006
0.005
0.004
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

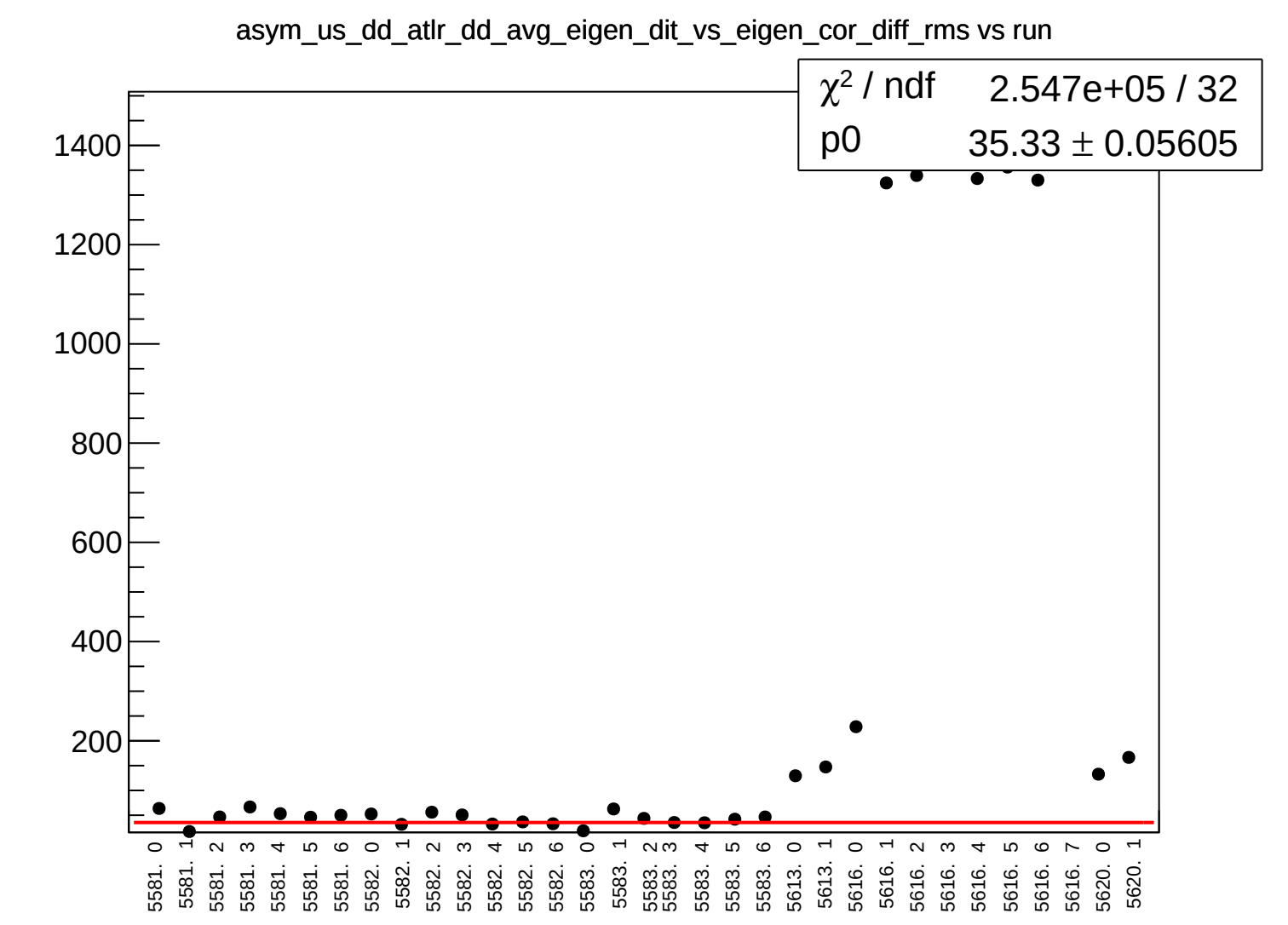

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.48 / 32
p0 −0.07393 ± 0.07927
pull
Entries 33
Mean 86.7
Std Dev 0

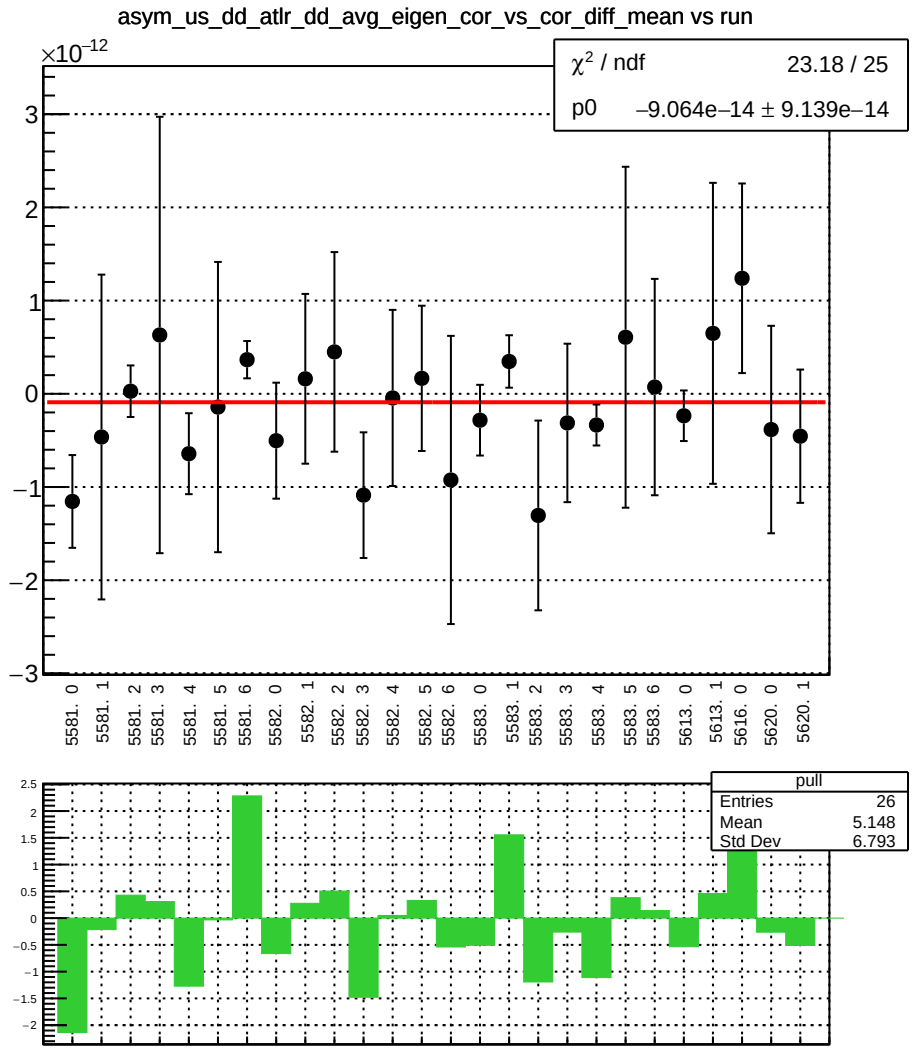

pull1D
Entries 33
Mean −0.02008
Std Dev 0.945

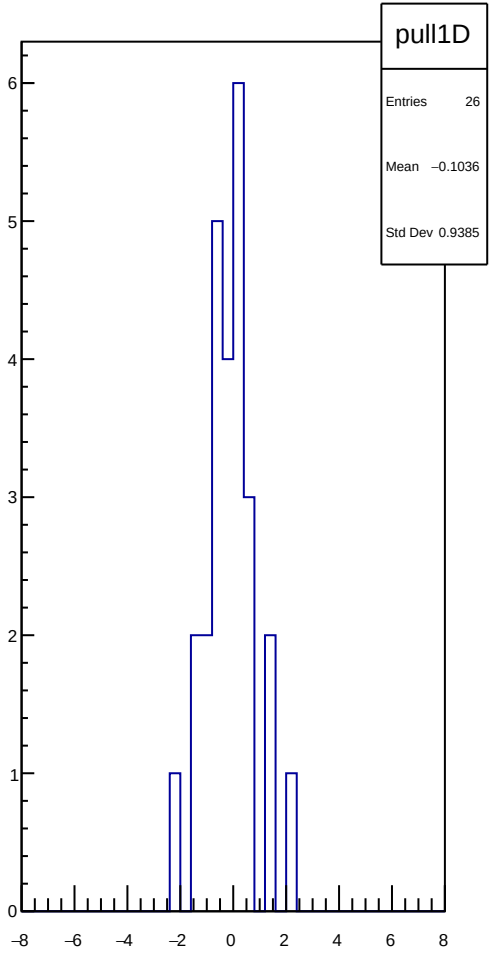

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.547e+05 / 32
p0 35.33 ± 0.05605
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

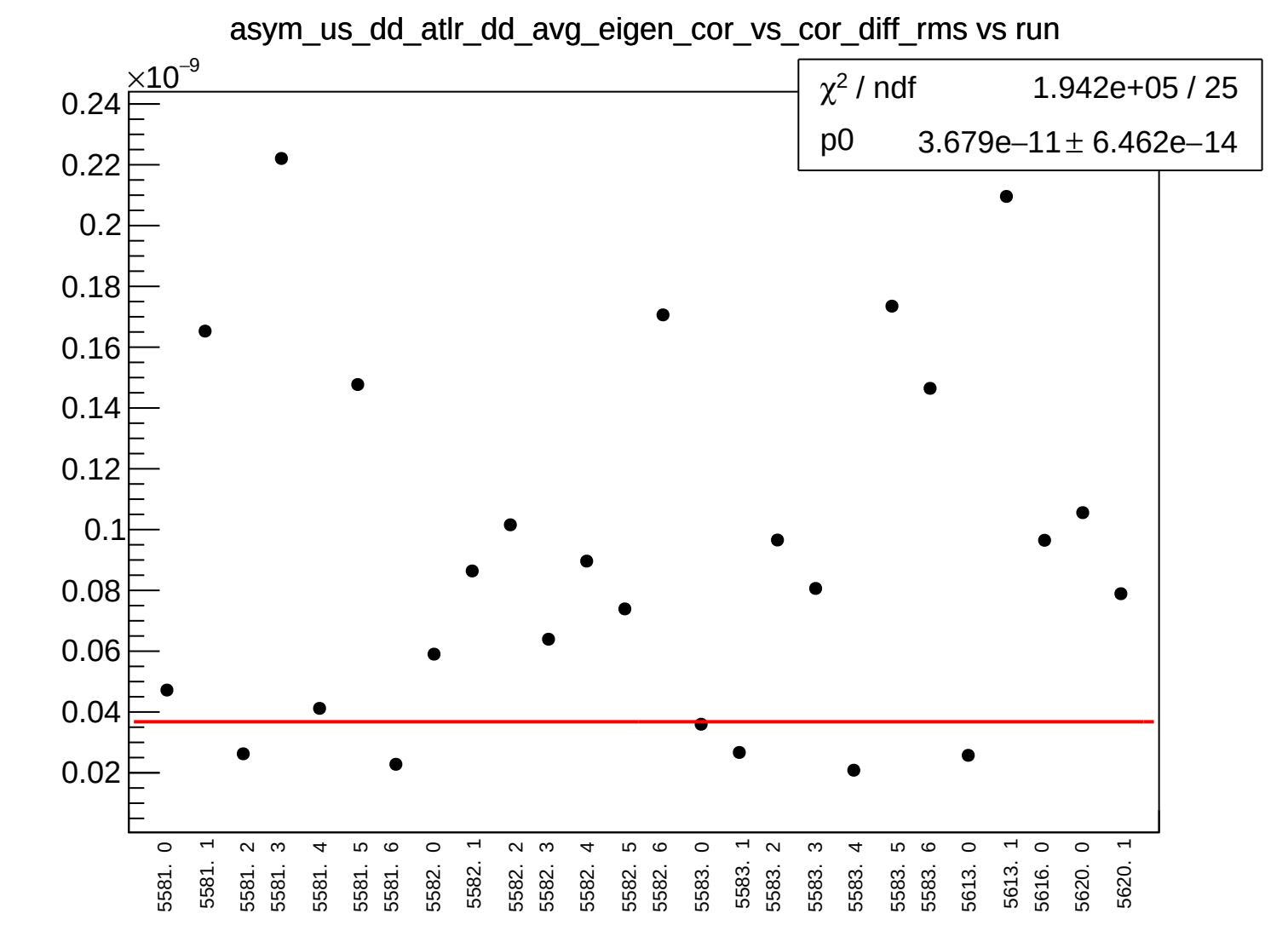

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.48 / 32
p0 −0.07393 ± 0.07927
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 86.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

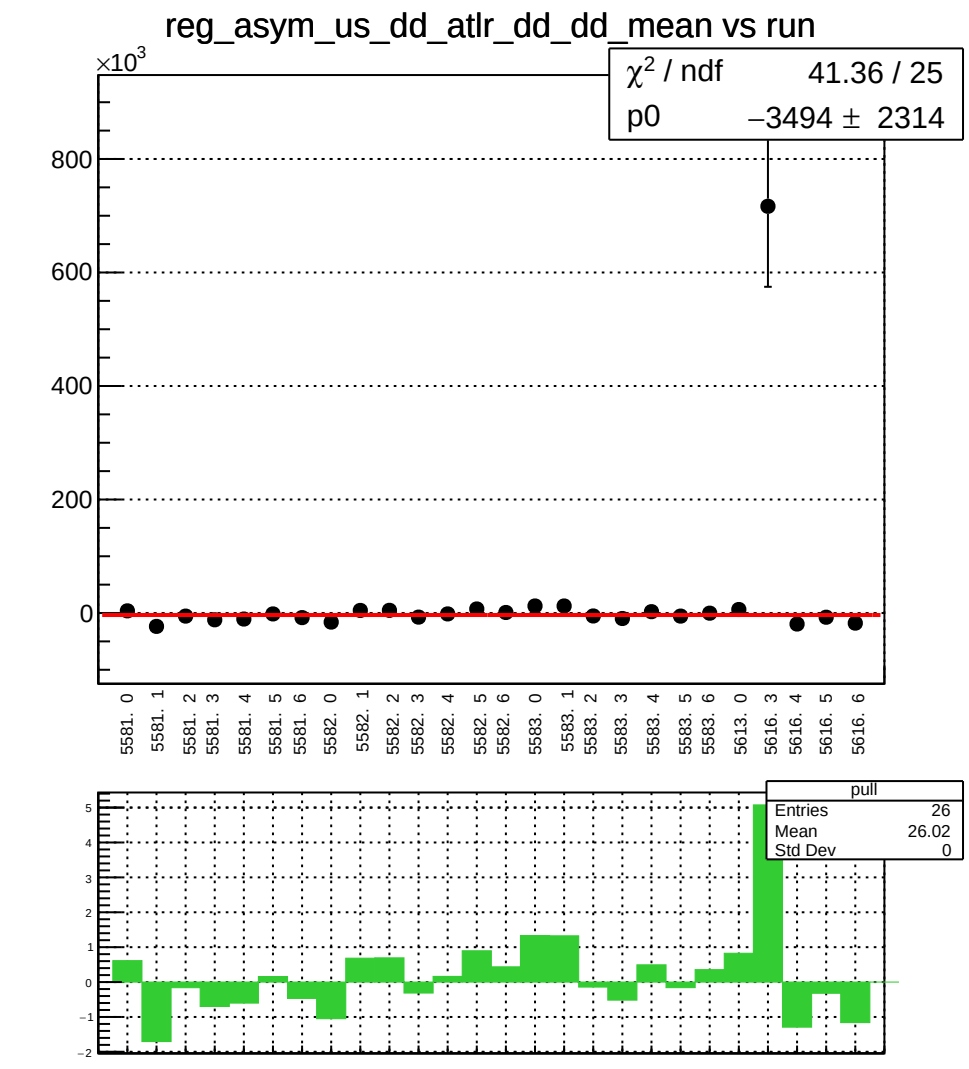

pull1D
Entries 33
Mean −0.02008
Std Dev 0.945
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

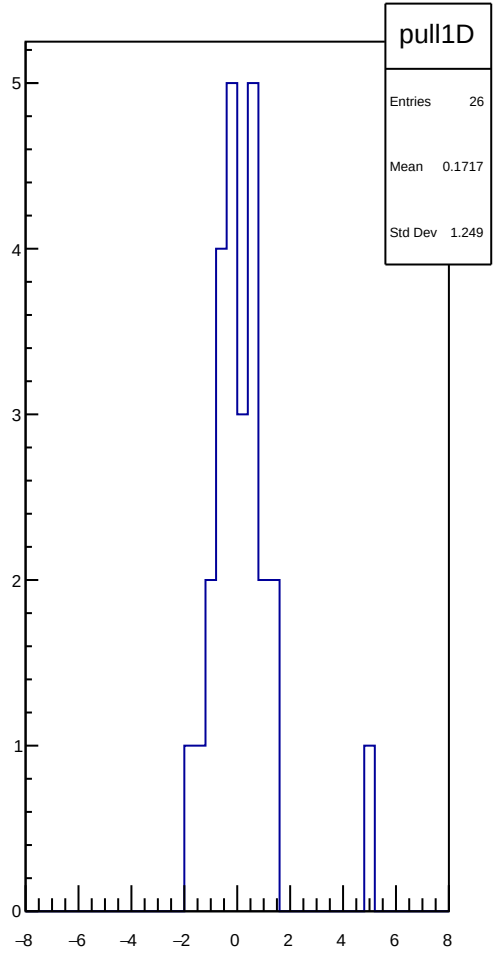

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.547e+05 / 32
p0 35.33 ± 0.05605
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

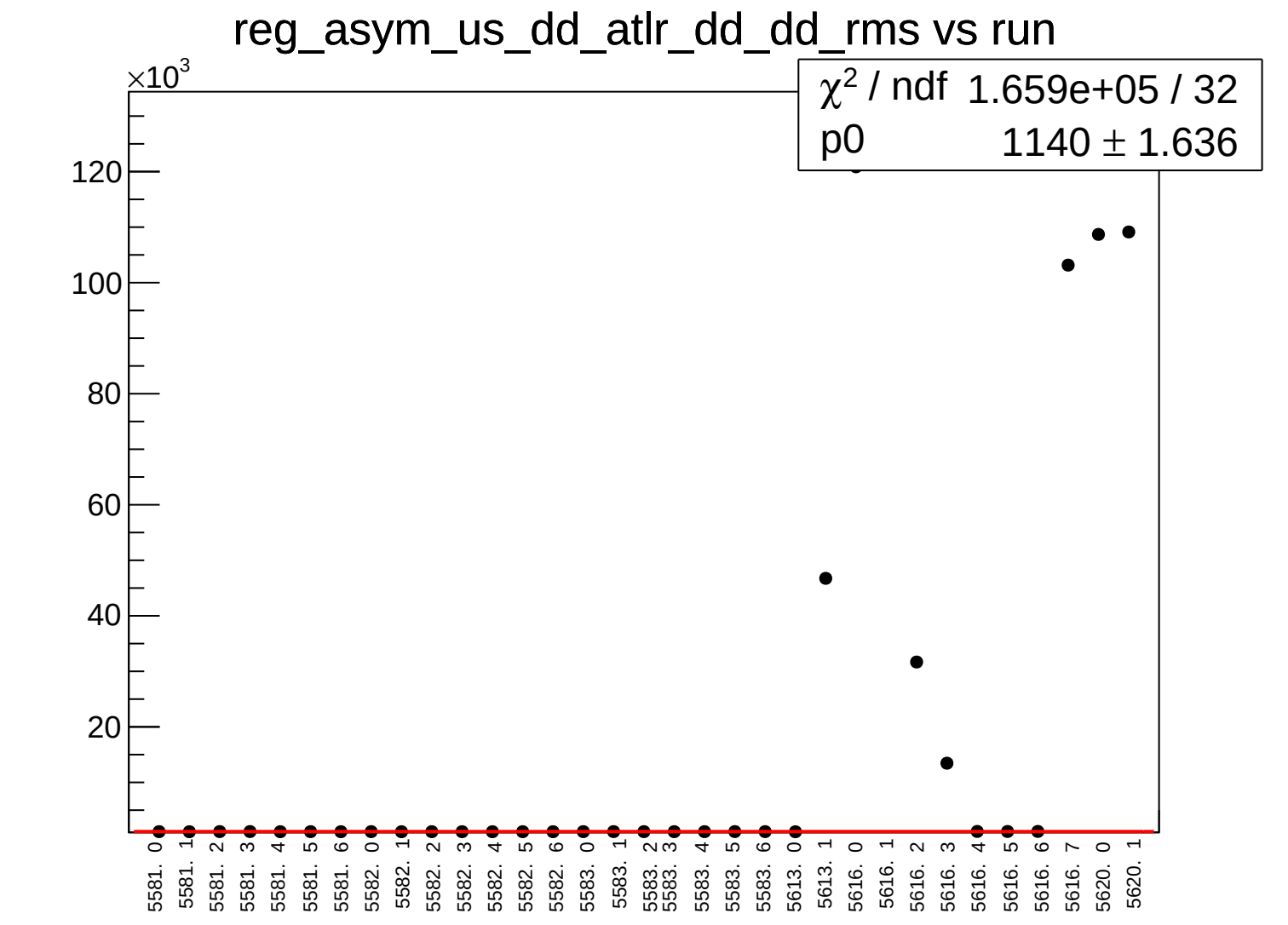

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 23.18 / 25
p0 −9.064e−14 ± 9.139e−14
3
2
1
0
−1
−2
−3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 5.148
Std Dev 6.793
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

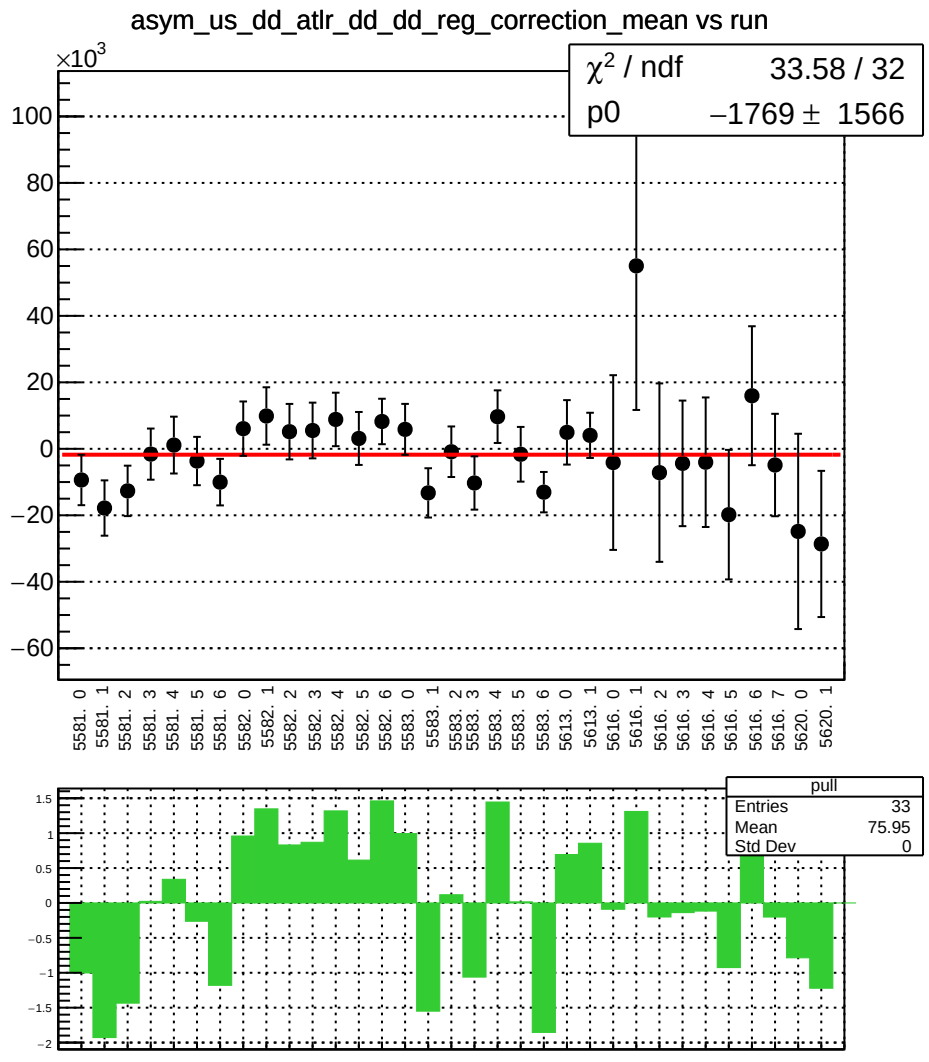

pull1D
Entries 26
Mean −0.1036
Std Dev 0.9385
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

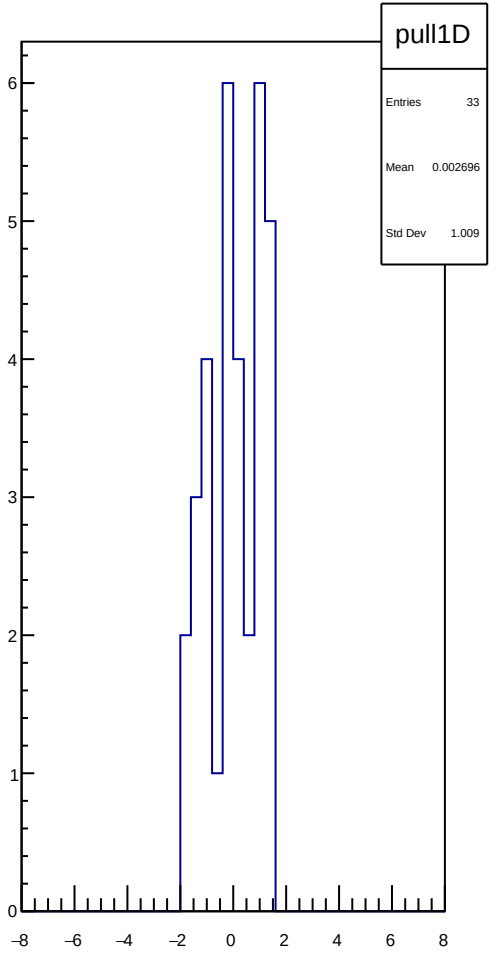

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.942e+05 / 25
p0 3.679e−11 ± 6.462e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

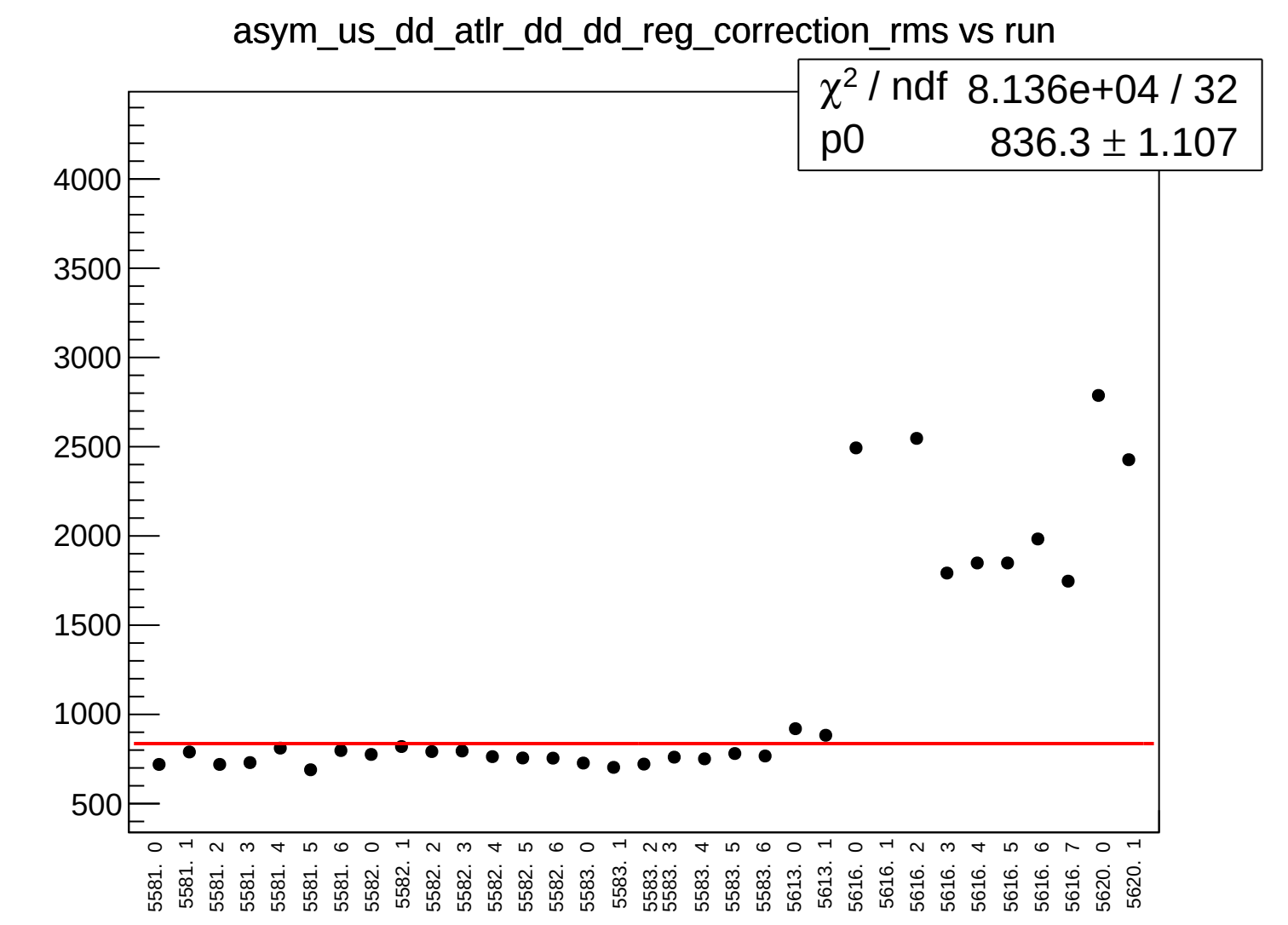

reg_asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ^2 / ndf 41.36 / 25
p0 −3494 ± 2314
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 26.02
Std Dev 0
5
4
3
2
1
0
−1
−2

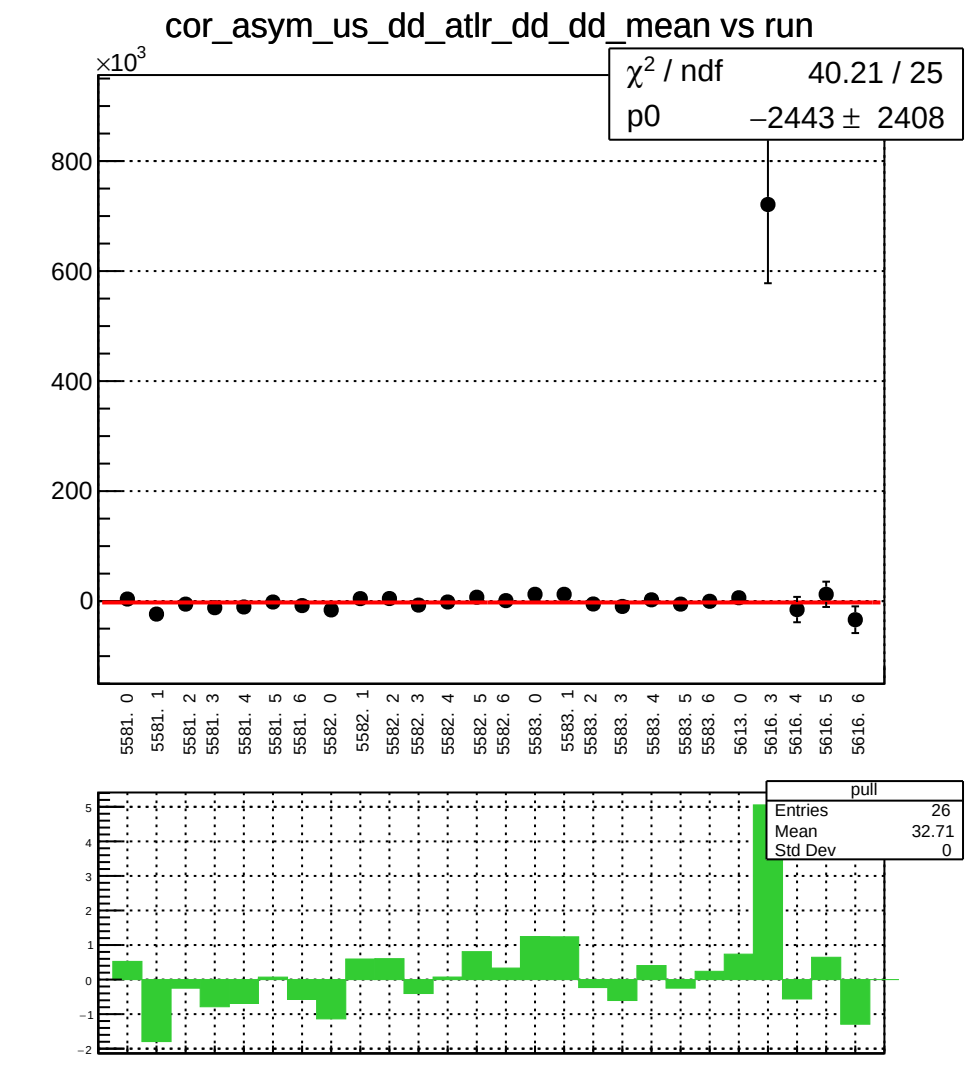

pull1D
Entries 26
Mean 0.1717
Std Dev 1.249
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

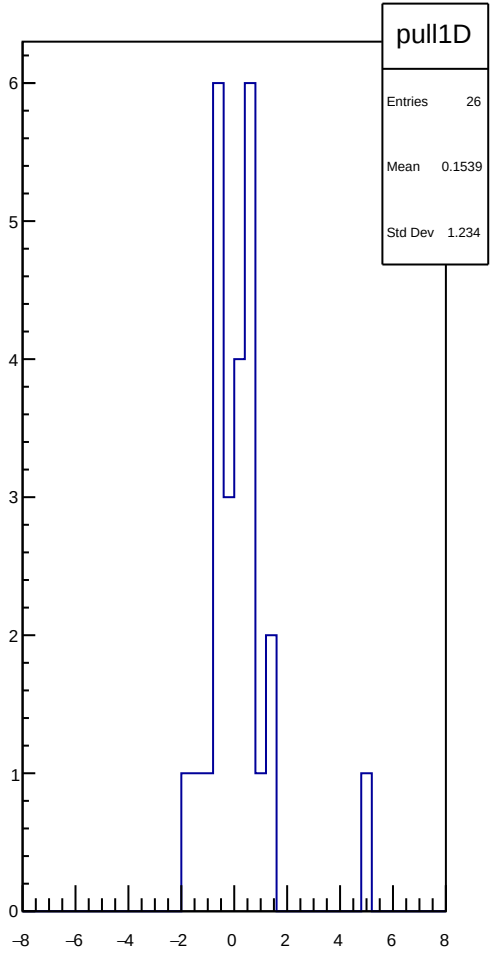

reg_asym_us_dd_atlr_dd_dd_rms vs run
×10^3
χ^2 / ndf 1.659e+05 / 32
p0 1140 ± 1.636
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

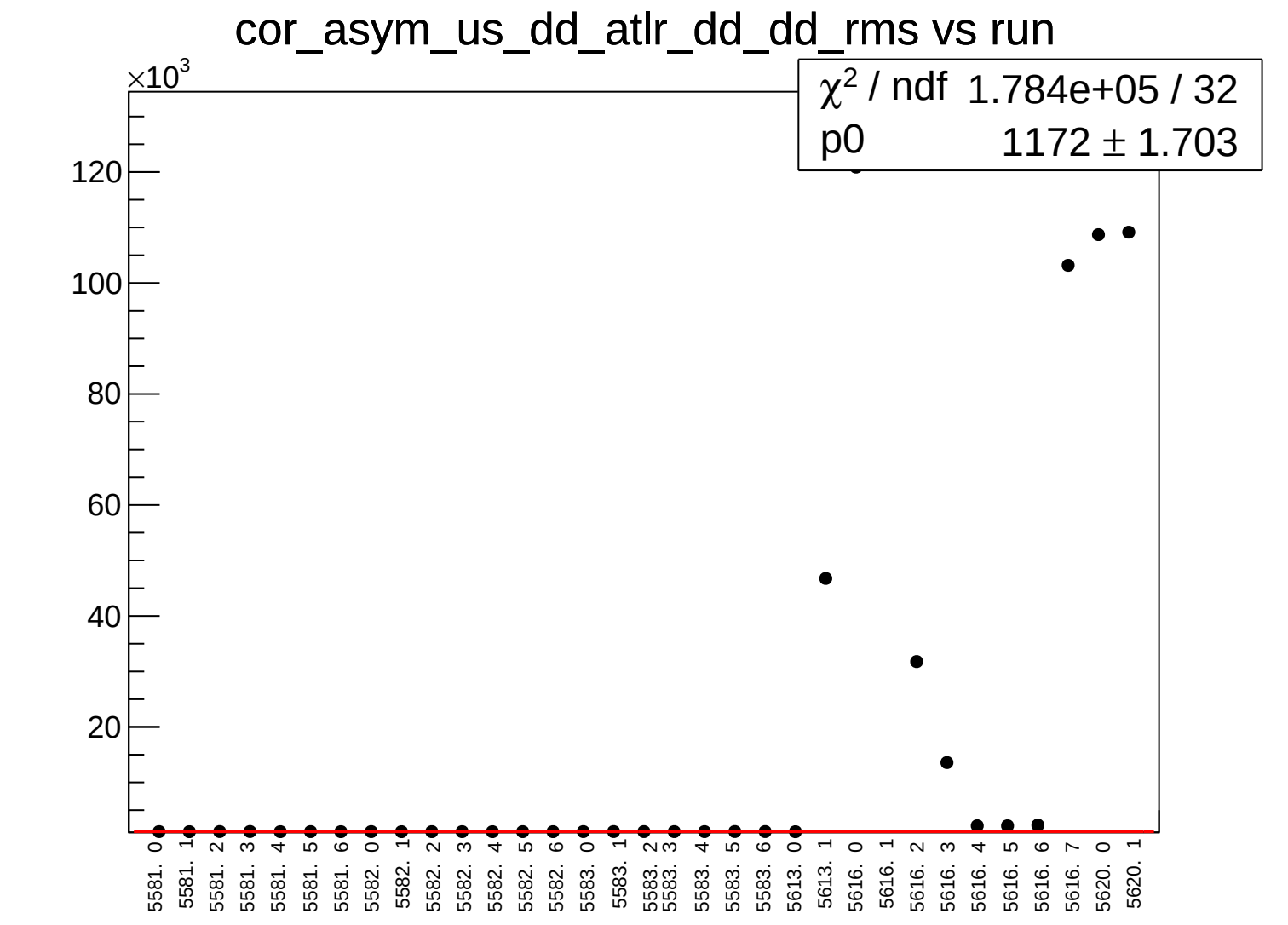

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 33.58 / 32
p0 −1769 ± 1566
100
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 75.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

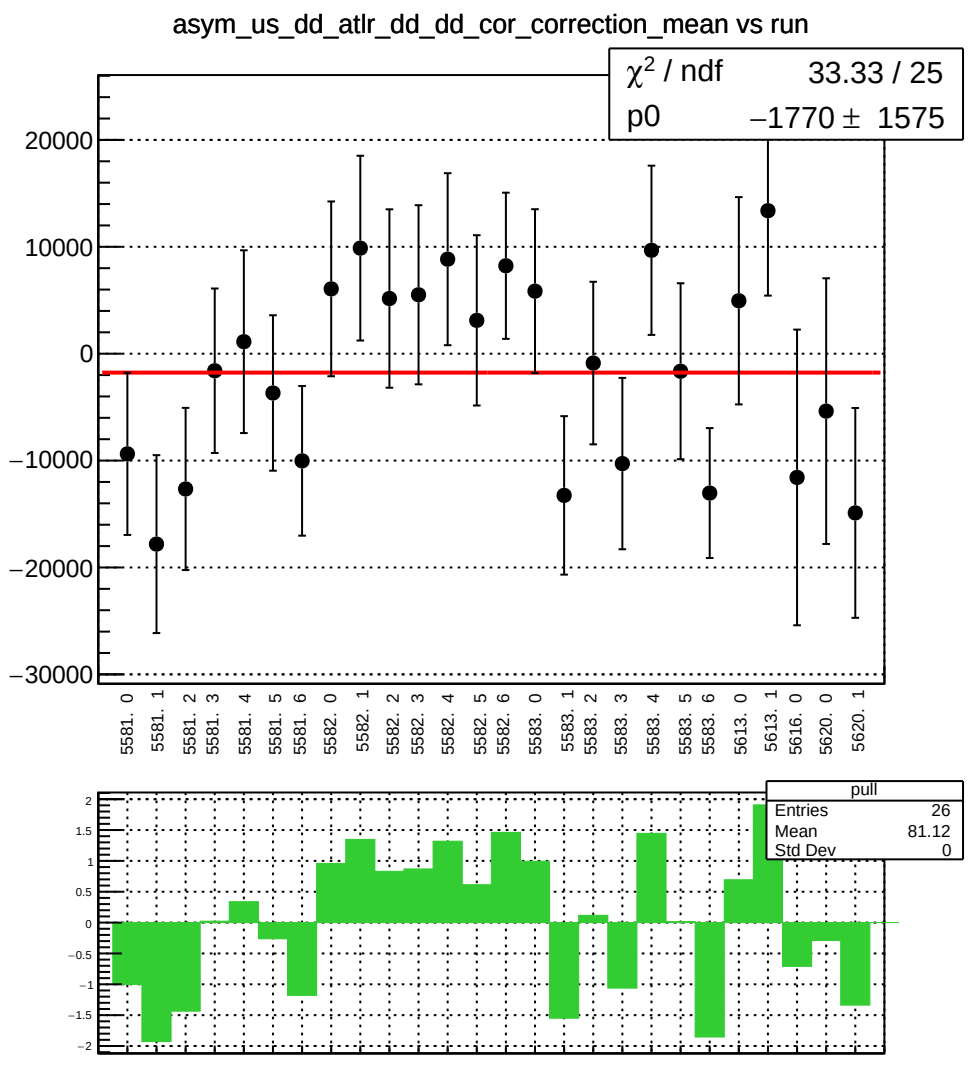

pull1D
Entries 33
Mean 0.002696
Std Dev 1.009
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

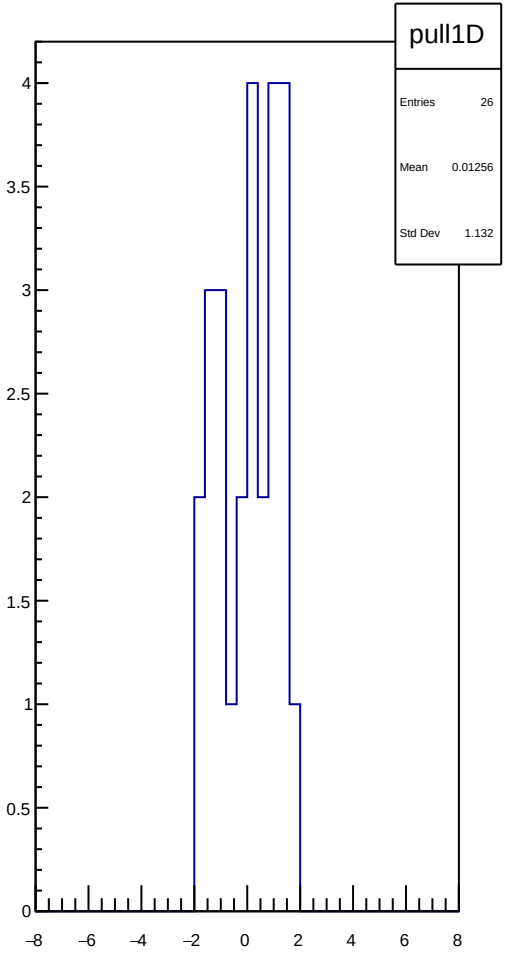

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 8.136e+04 / 32
p0 836.3 ± 1.107
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

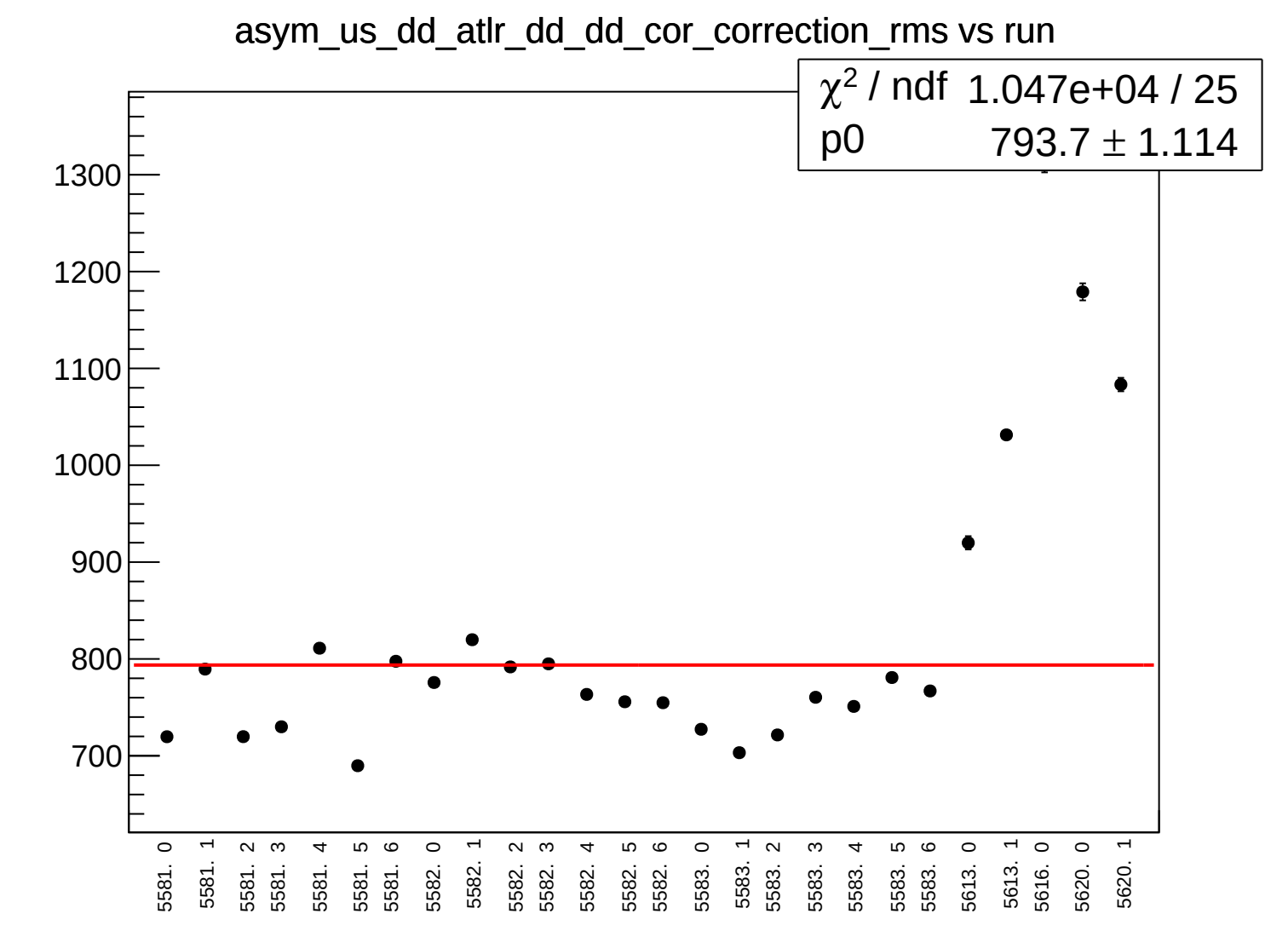

cor_asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ² / ndf 40.21 / 25
p0 −2443 ± 2408
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 32.71
Std Dev 0
5
4
3
2
1
0
−1
−2

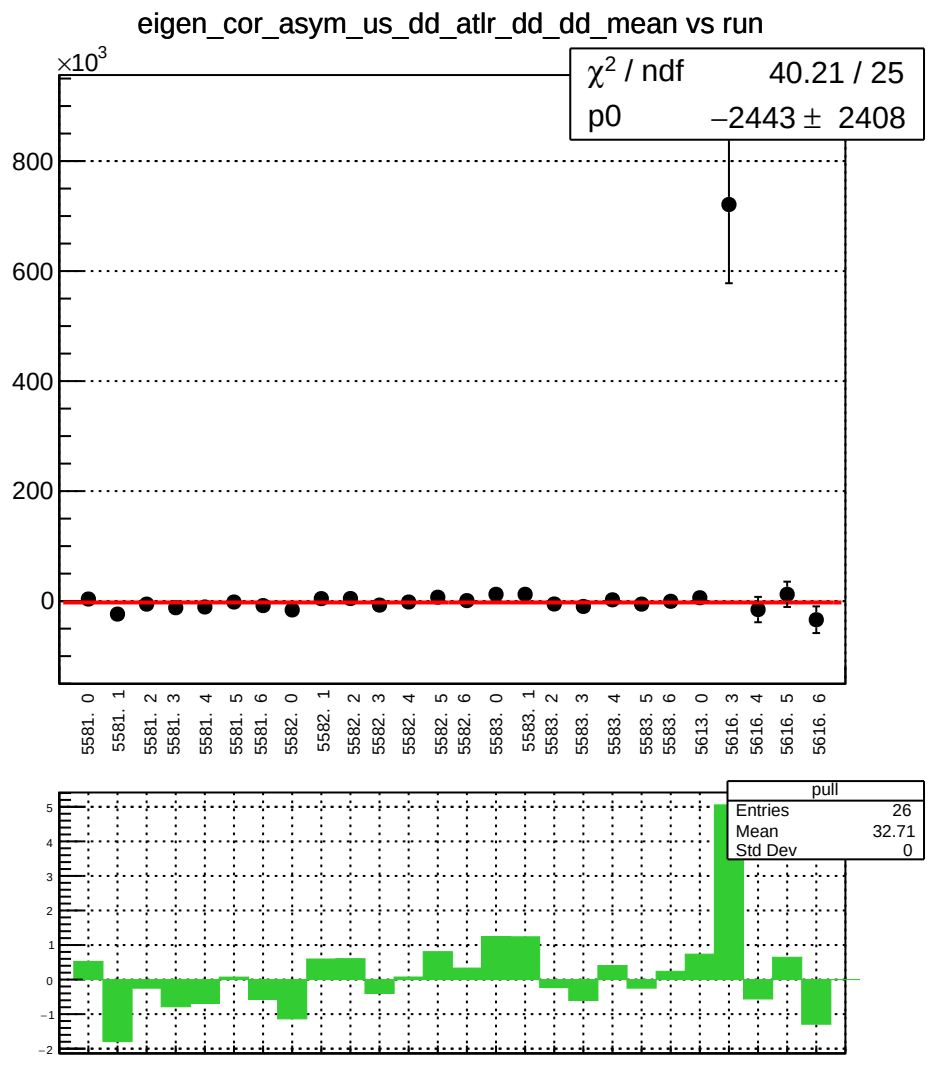

pull1D
Entries 26
Mean 0.1539
Std Dev 1.234
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

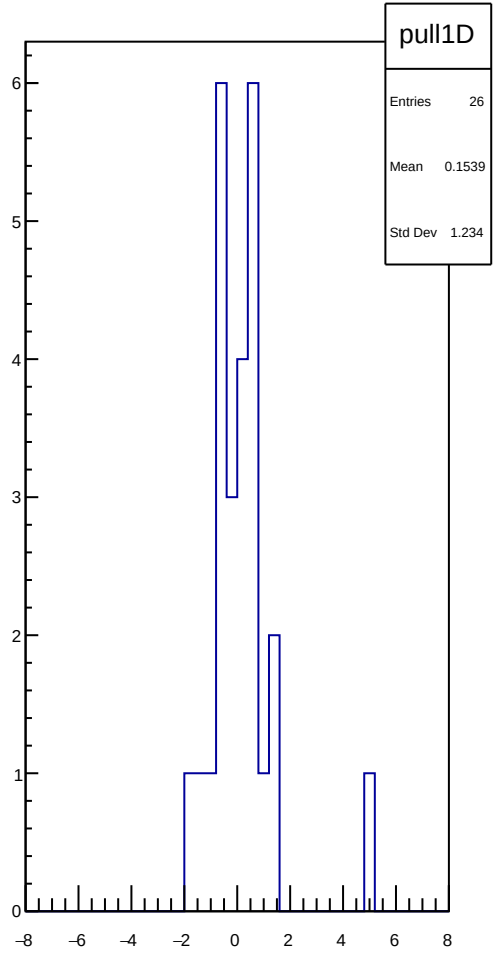

cor_asym_us_dd_atlr_dd_dd_rms vs run
×10^3
χ^2 / ndf 1.784e+05 / 32
p0 1172 ± 1.703
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

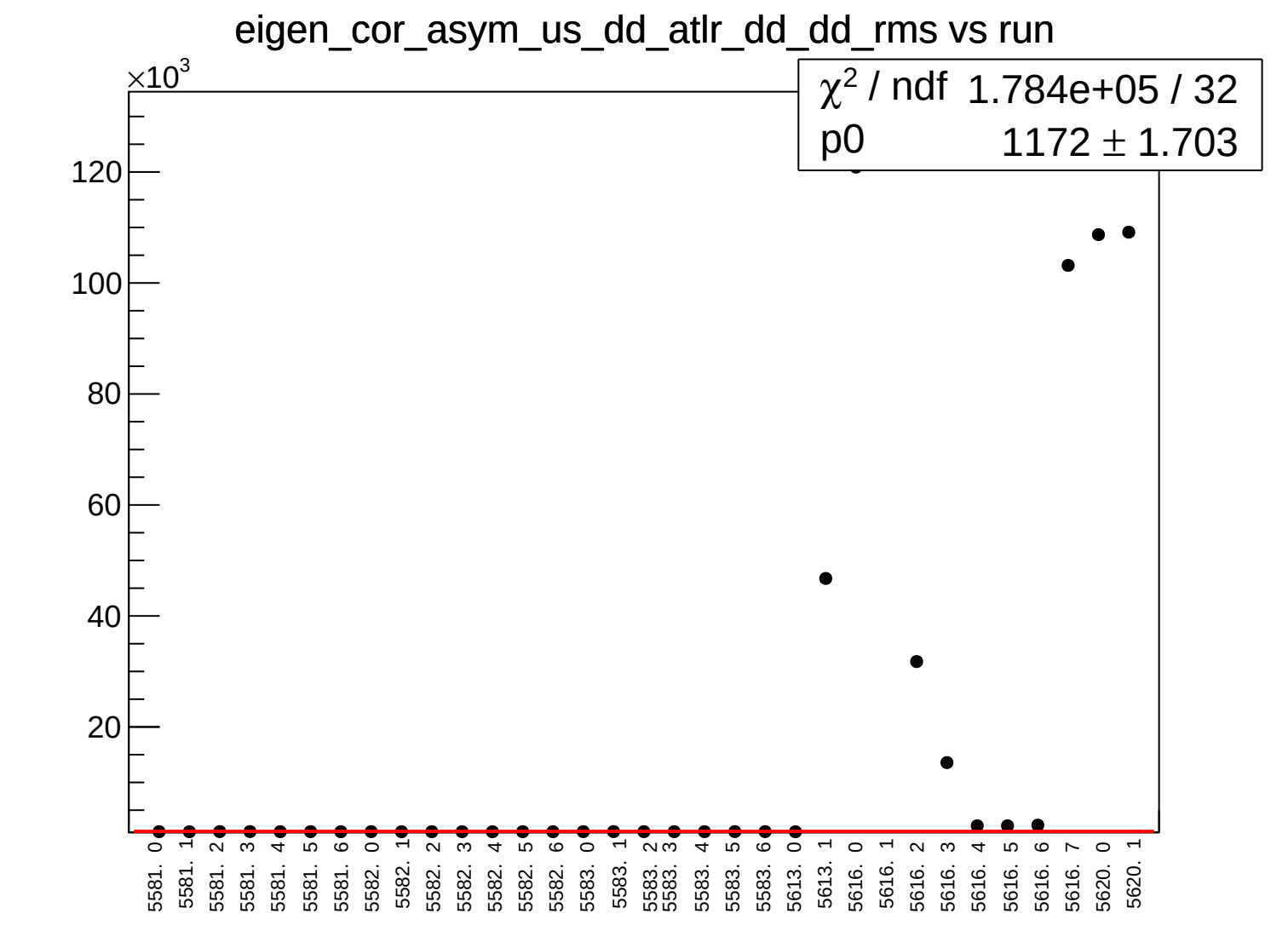

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 33.33 / 25
p0 −1770 ± 1575
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 81.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

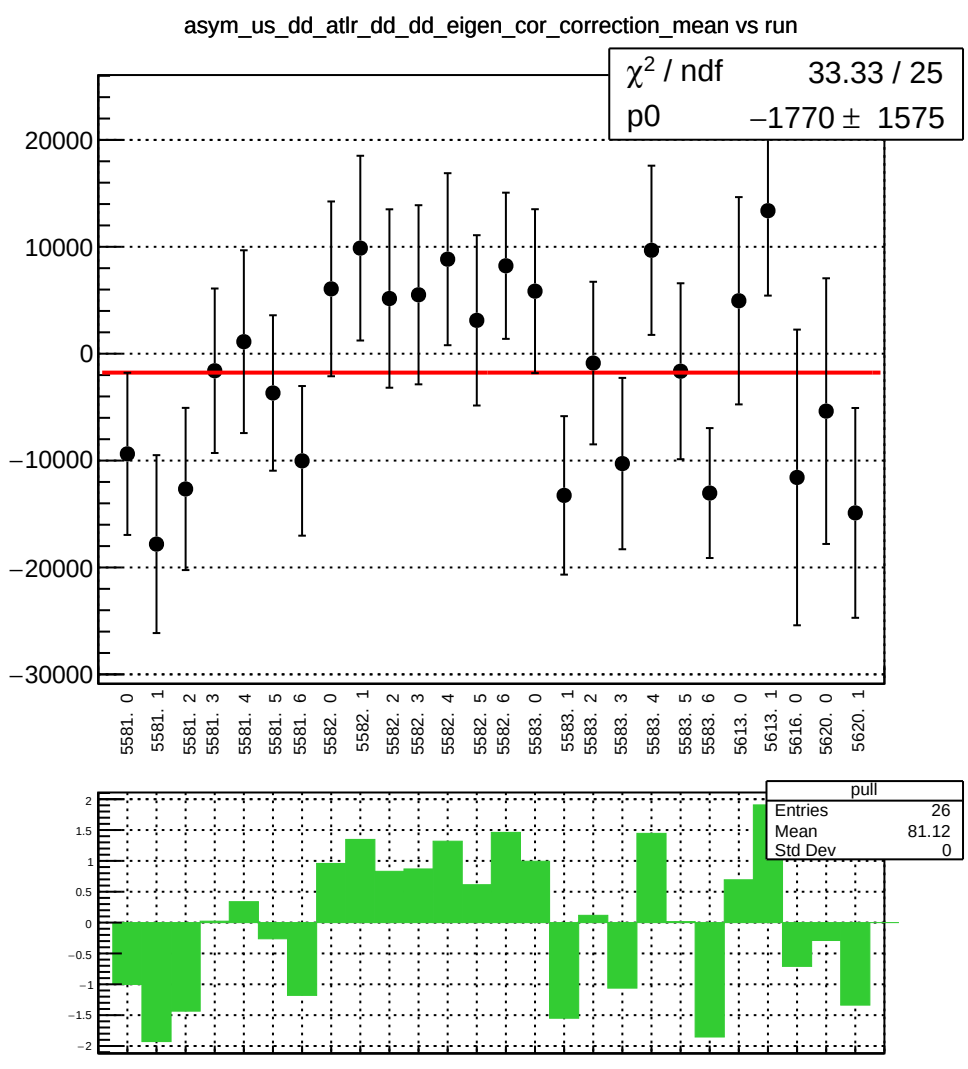

pull1D
Entries 26
Mean 0.01256
Std Dev 1.132
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

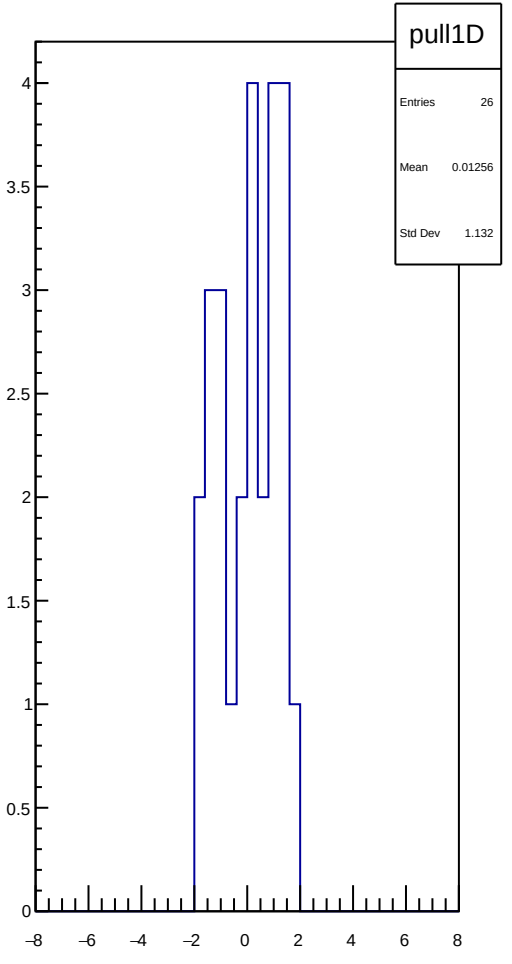

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.047e+04 / 25
p0 793.7 ± 1.114
1300
1200
1100
1000
900
800
700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

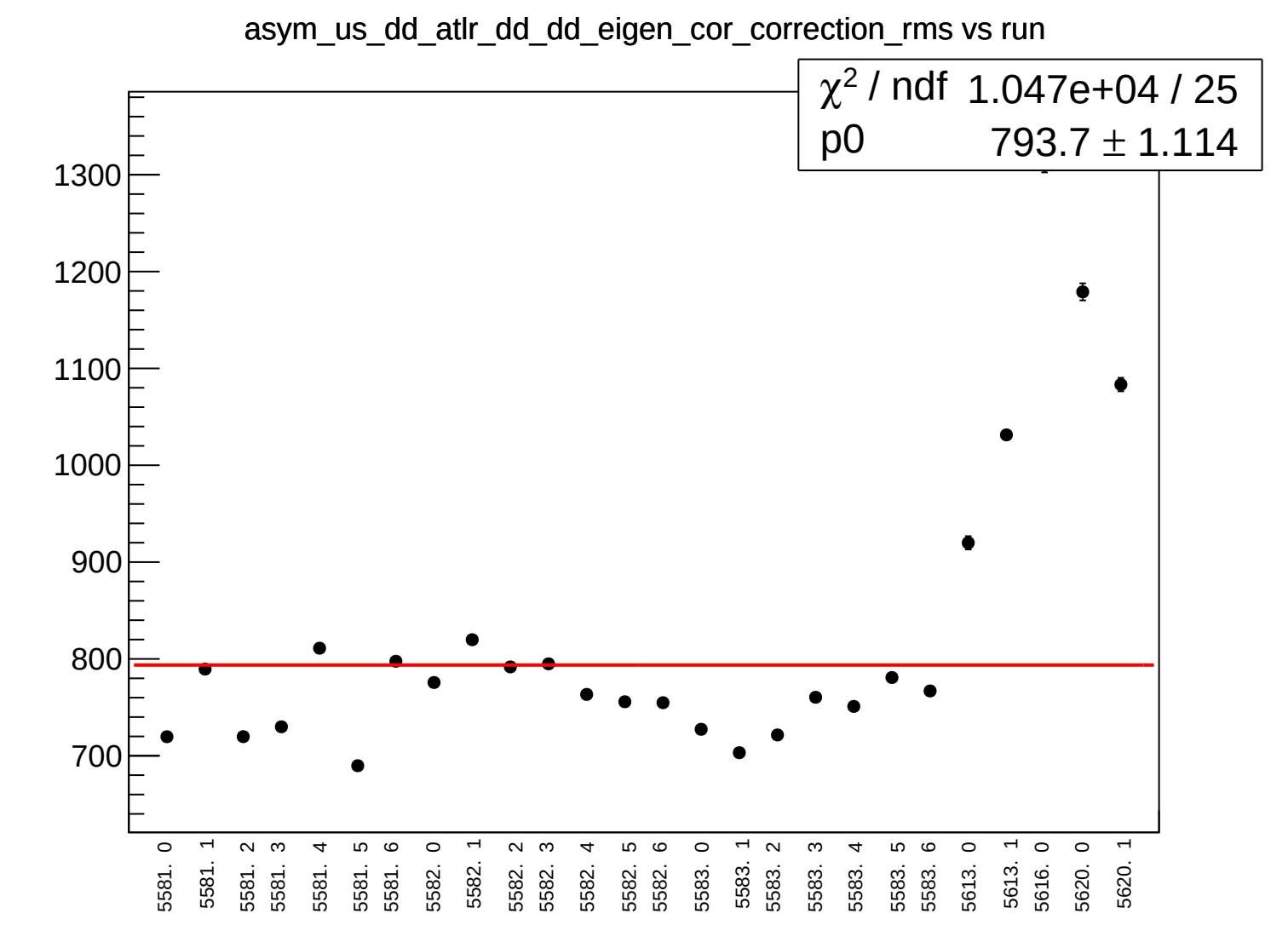

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ² / ndf 40.21 / 25
p0 −2443 ± 2408
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 32.71
Std Dev 0
5
4
3
2
1
0
−1
−2

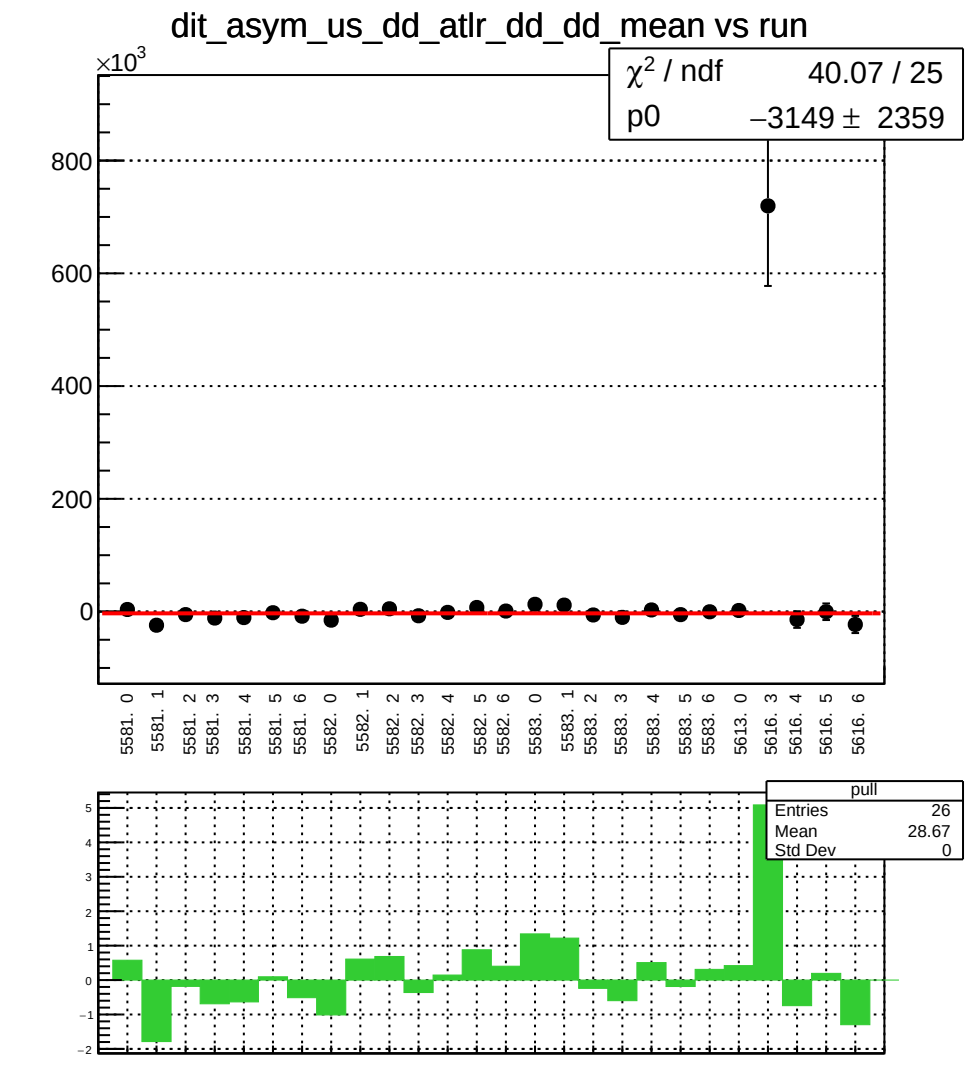

pull1D
Entries 26
Mean 0.1539
Std Dev 1.234
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

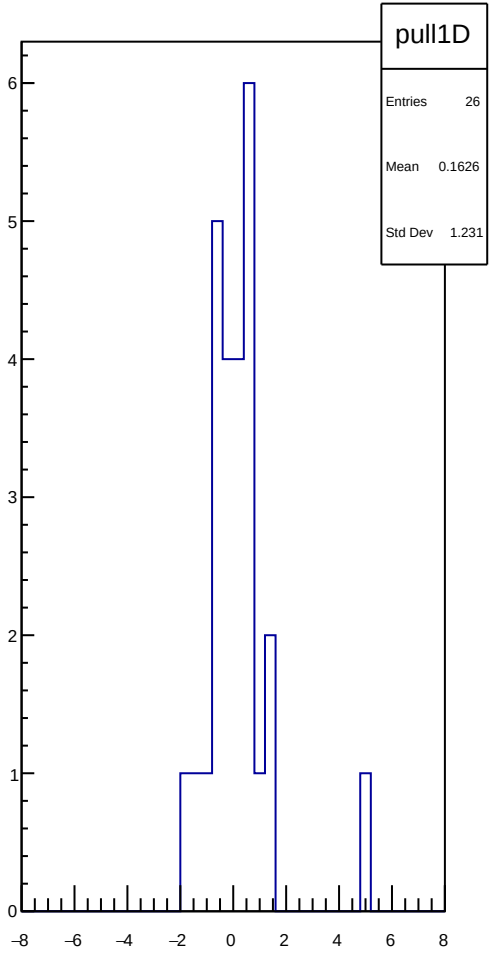

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
×10^3
χ^2 / ndf 1.784e+05 / 32
p0 1172 ± 1.703
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

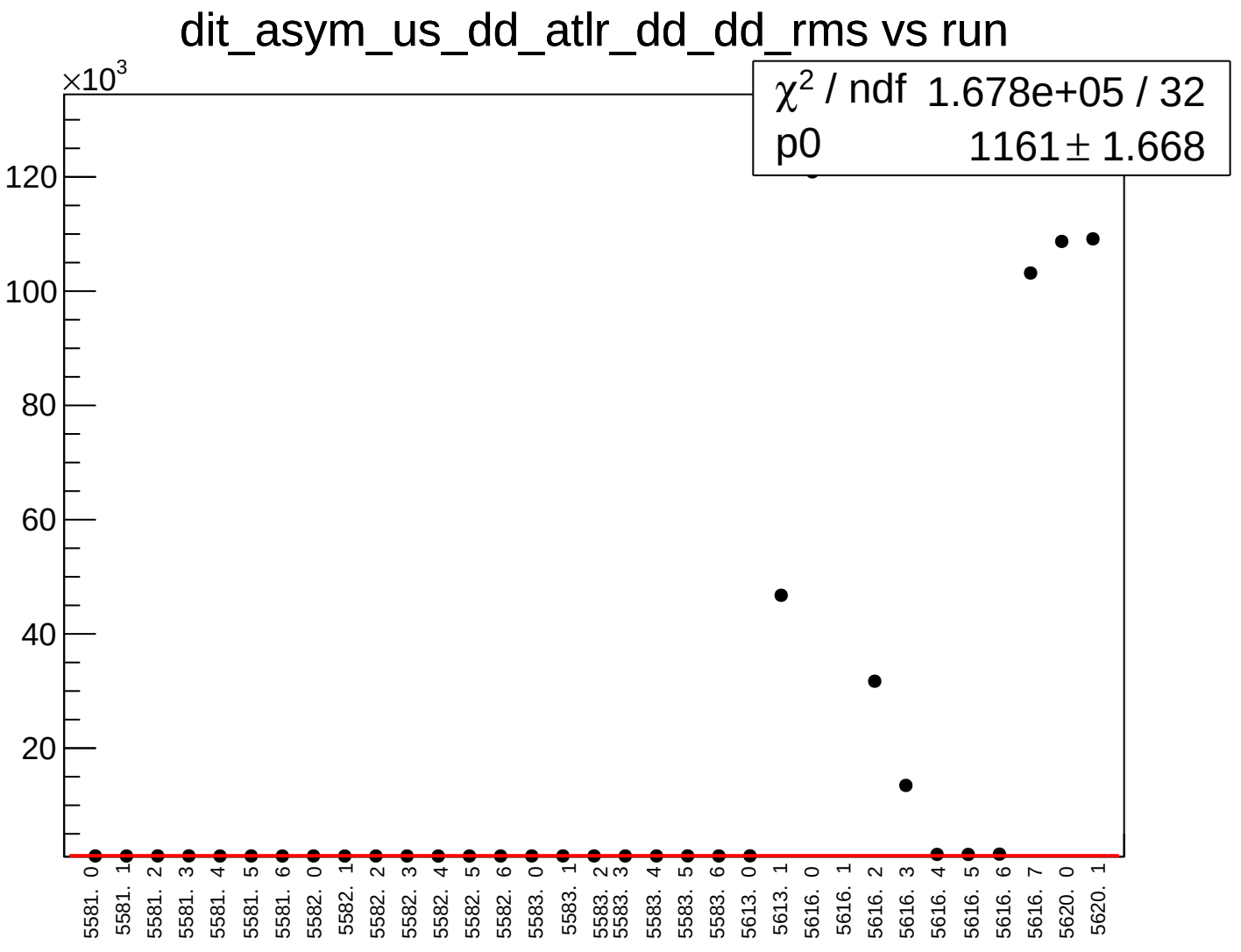

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 33.33 / 25
p0 −1770 ± 1575
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 81.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

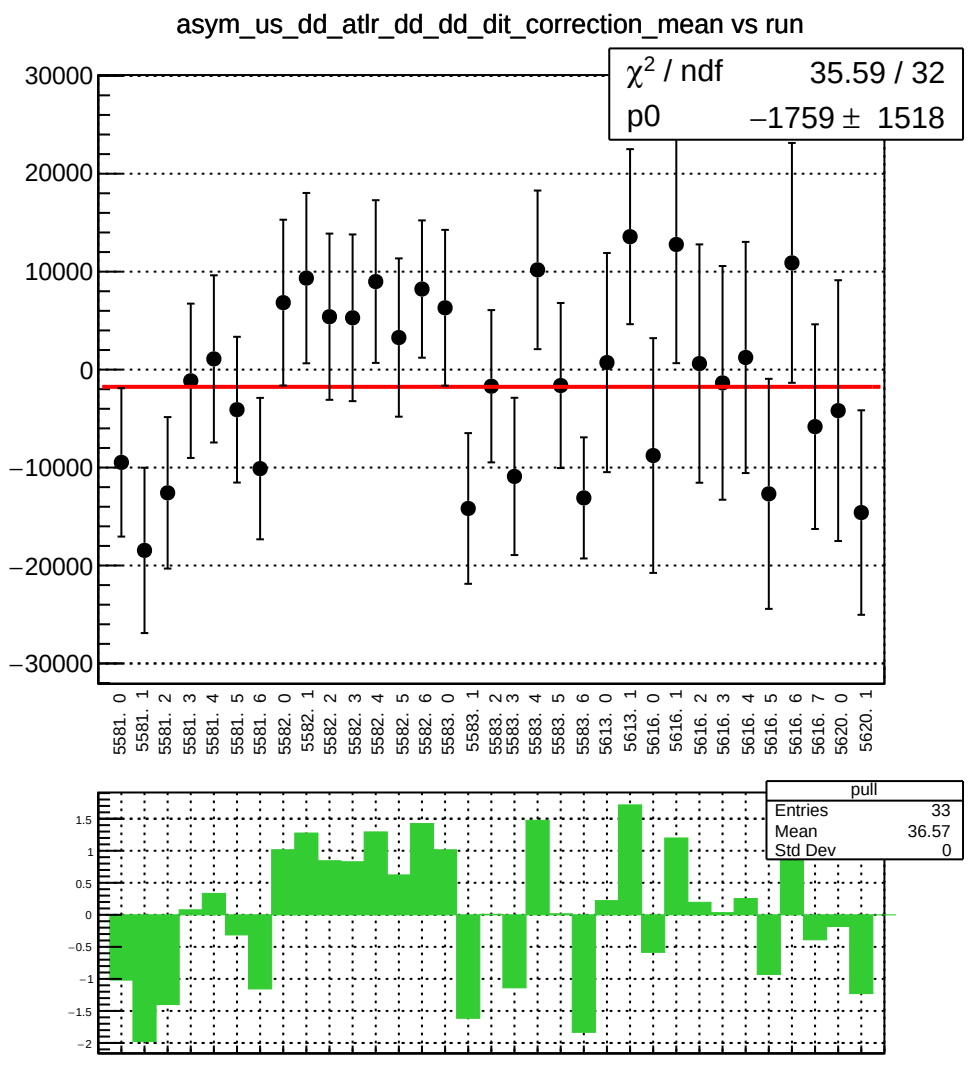

pull1D
Entries 26
Mean 0.01256
Std Dev 1.132
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

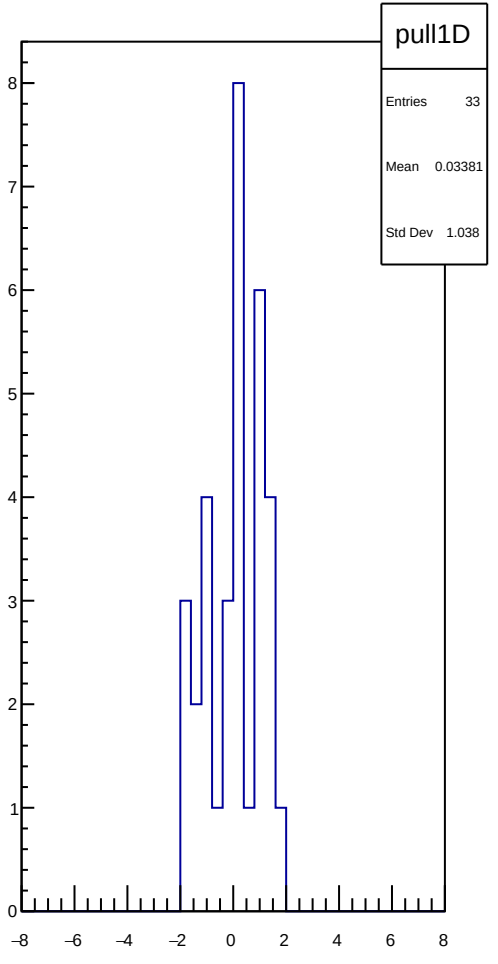

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.047e+04 / 25
p0 793.7 ± 1.114
1300
1200
1100
1000
900
800
700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

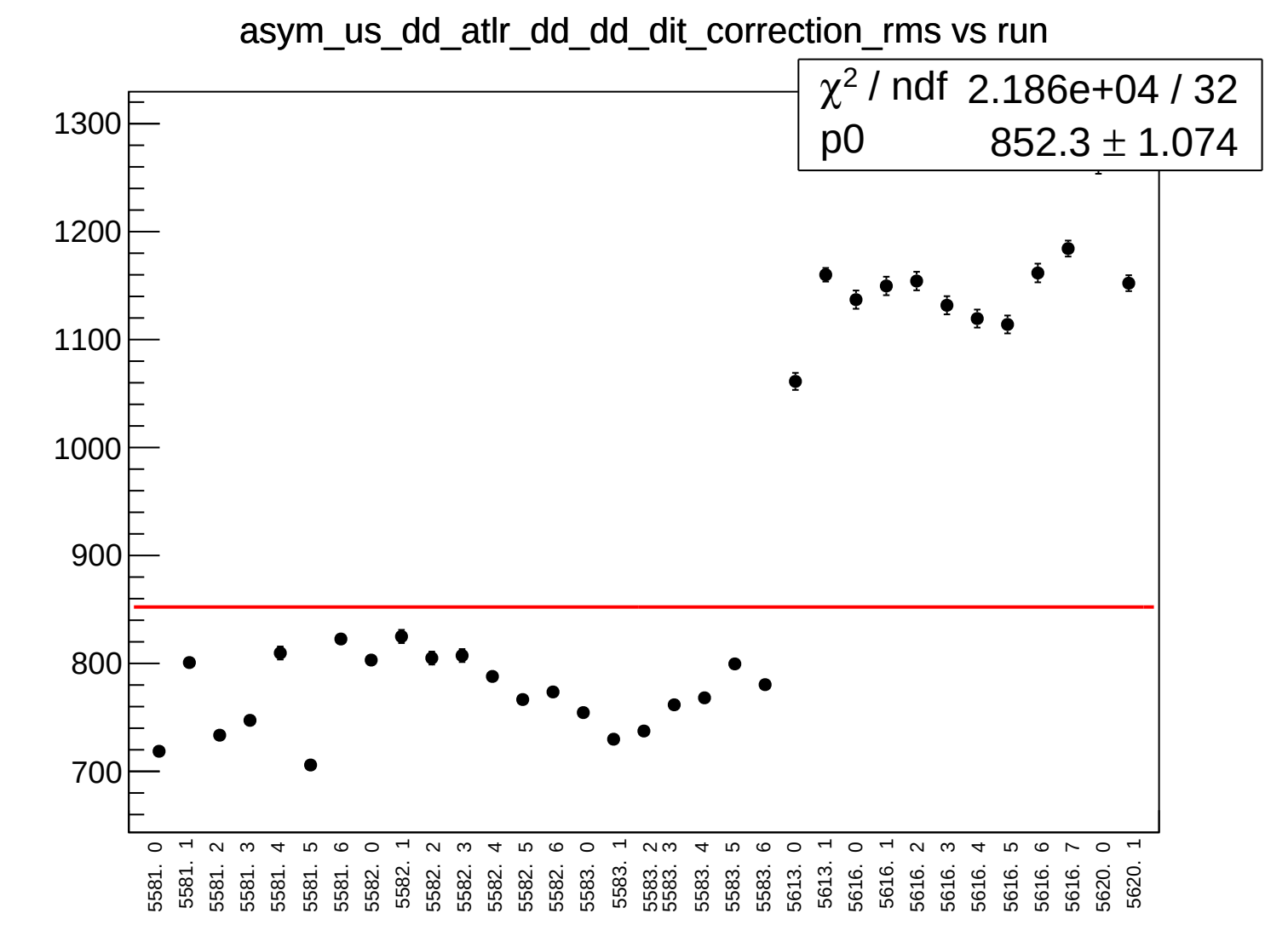

dit_asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ^2 / ndf 40.07 / 25
p0 −3149 ± 2359
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 28.67
Std Dev 0
5
4
3
2
1
0
−1
−2

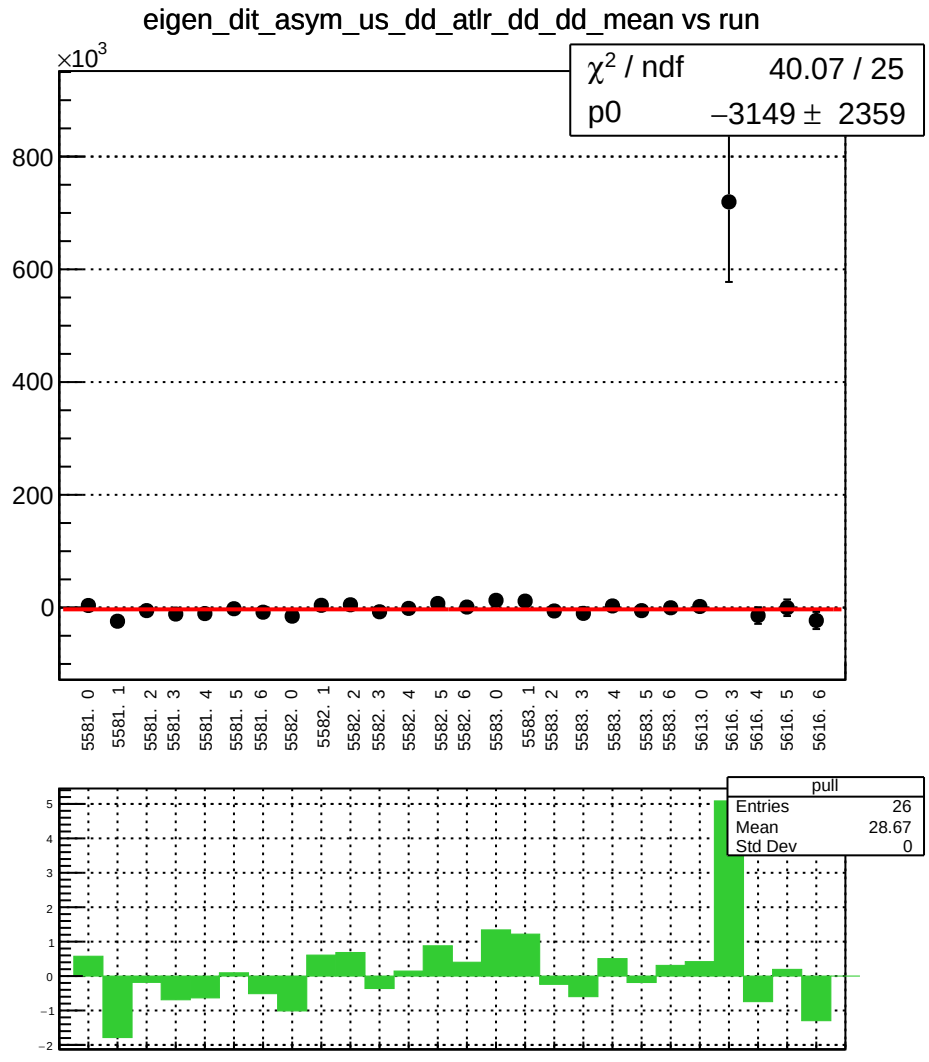

pull1D
Entries 26
Mean 0.1626
Std Dev 1.231
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

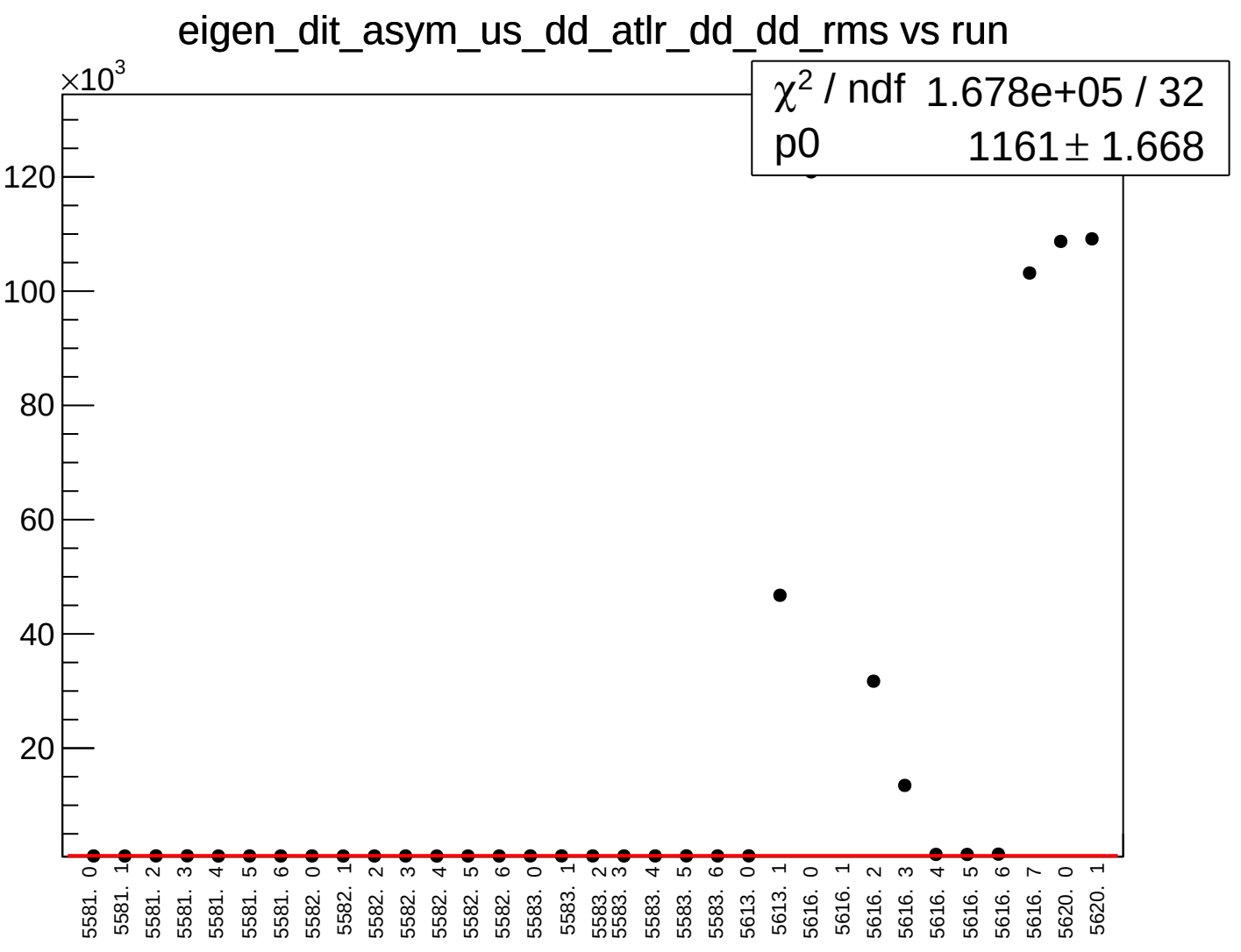

dit_asym_us_dd_atlr_dd_dd_rms vs run
×10^3
χ^2 / ndf 1.678e+05 / 32
p0 1161 ± 1.668
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

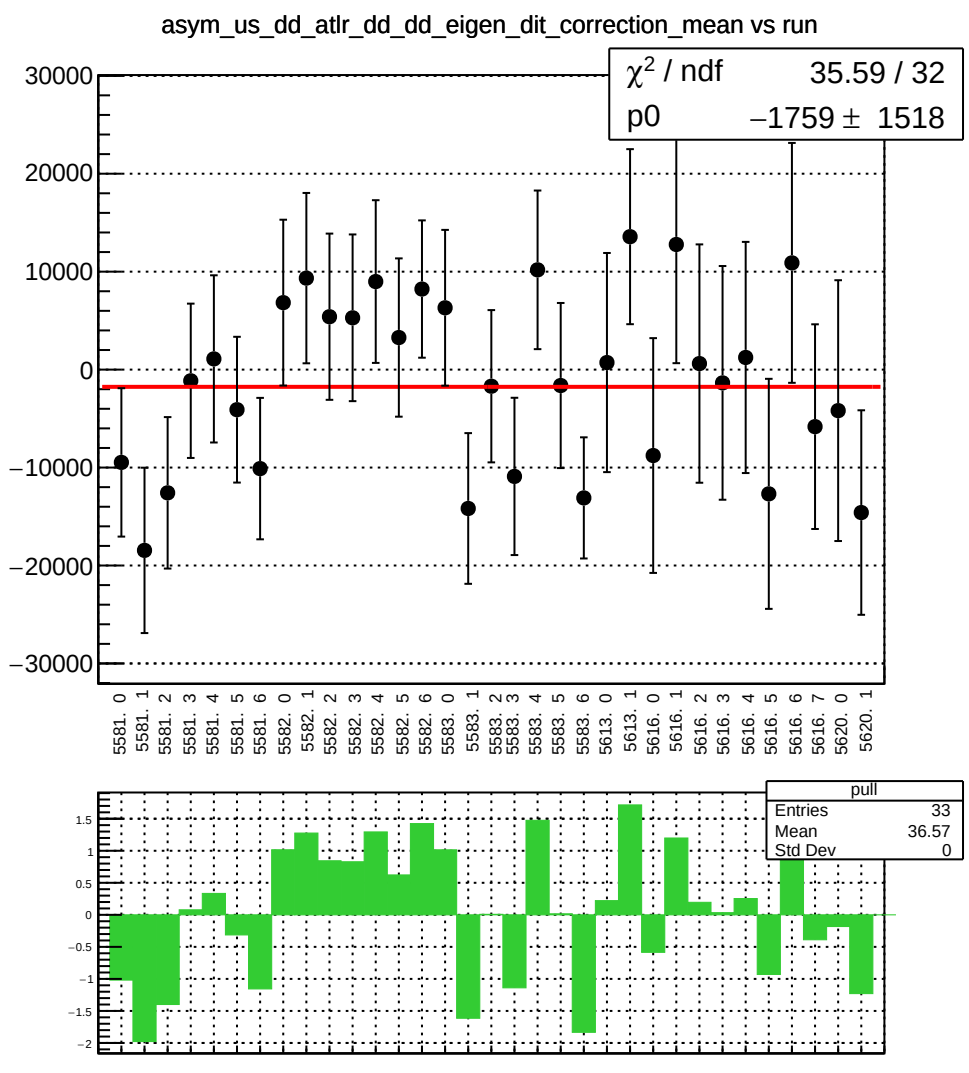

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 35.59 / 32
p0 −1759 ± 1518
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

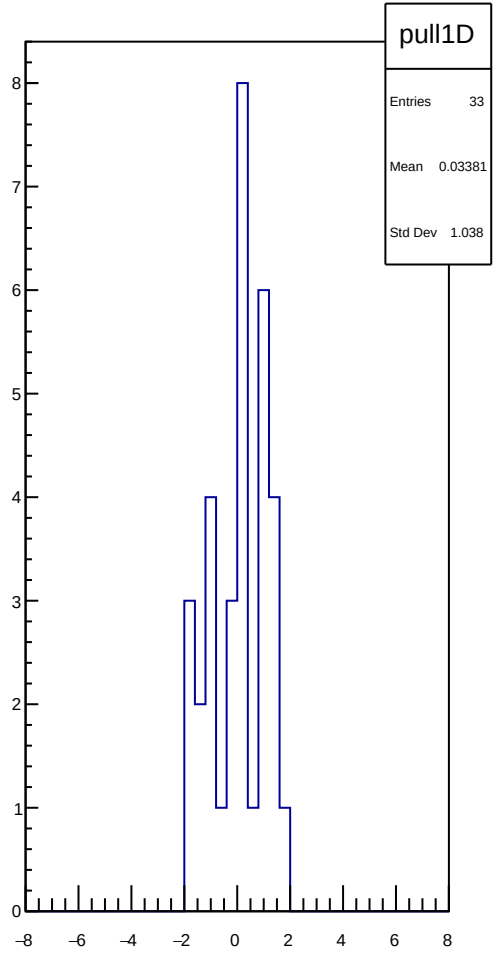

pull1D
Entries 33
Mean 0.03381
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

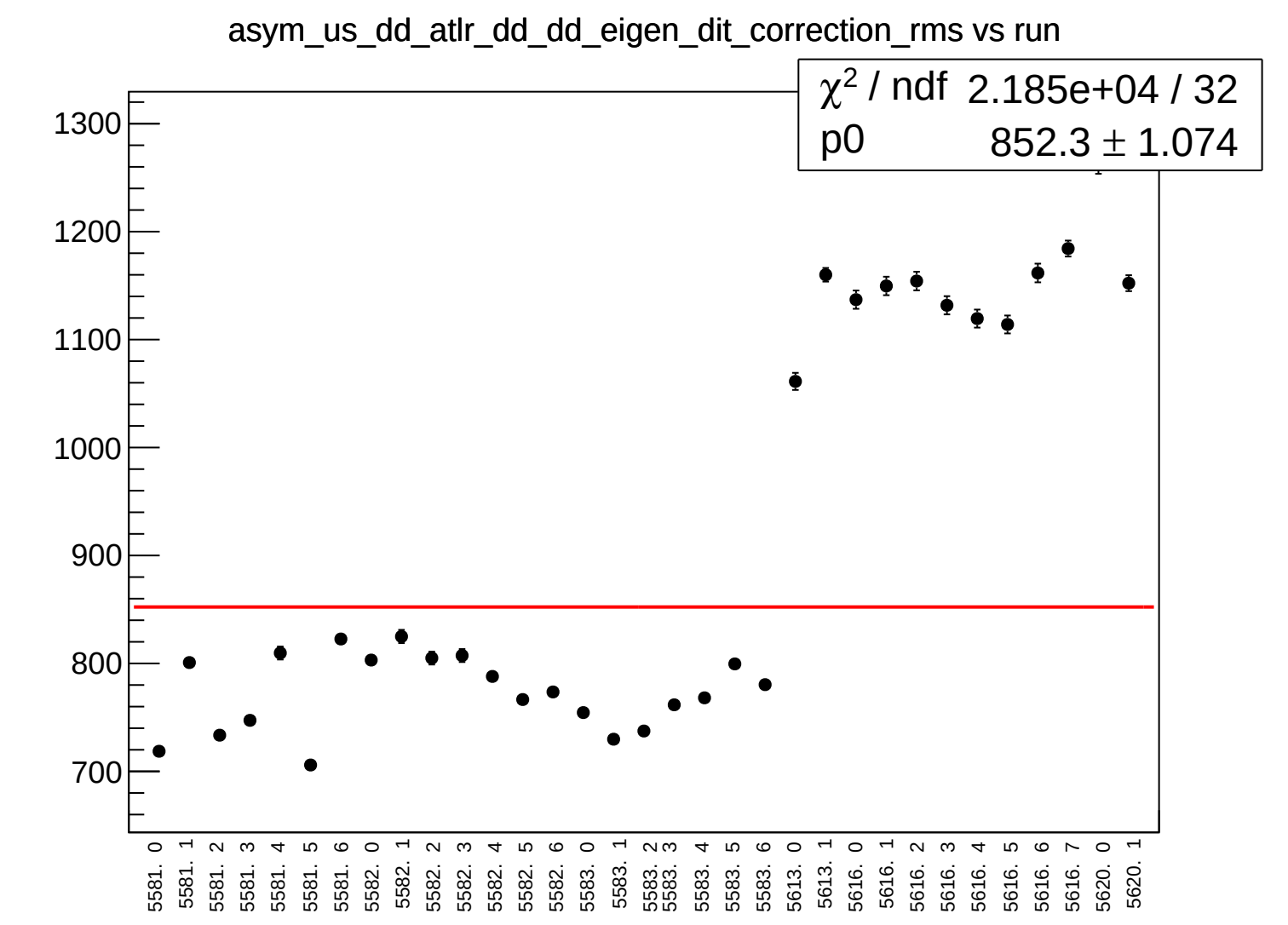

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.186e+04 / 32
p0 852.3 ± 1.074
1300
1200
1100
1000
900
800
700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

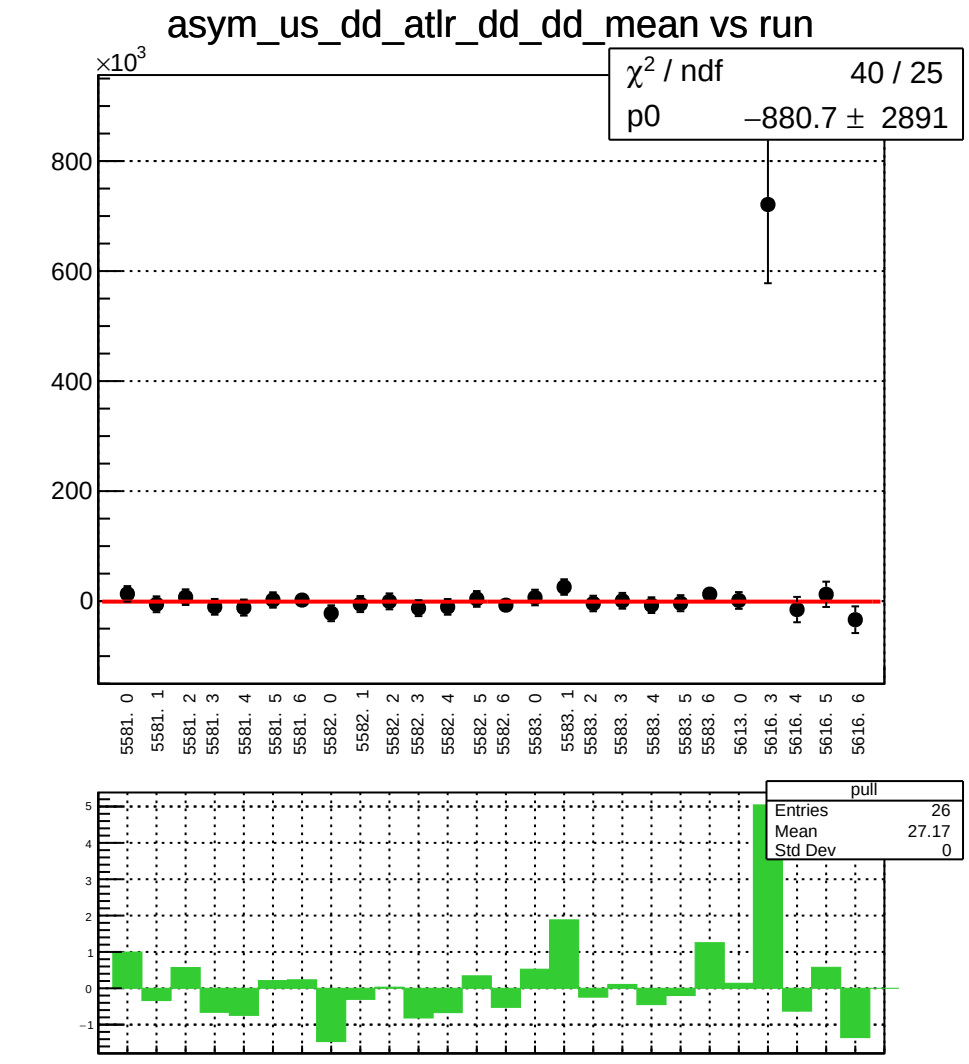

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ² / ndf 40.07 / 25
p0 −3149 ± 2359
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 28.67
Std Dev 0
5
4
3
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.1626
Std Dev 1.231
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

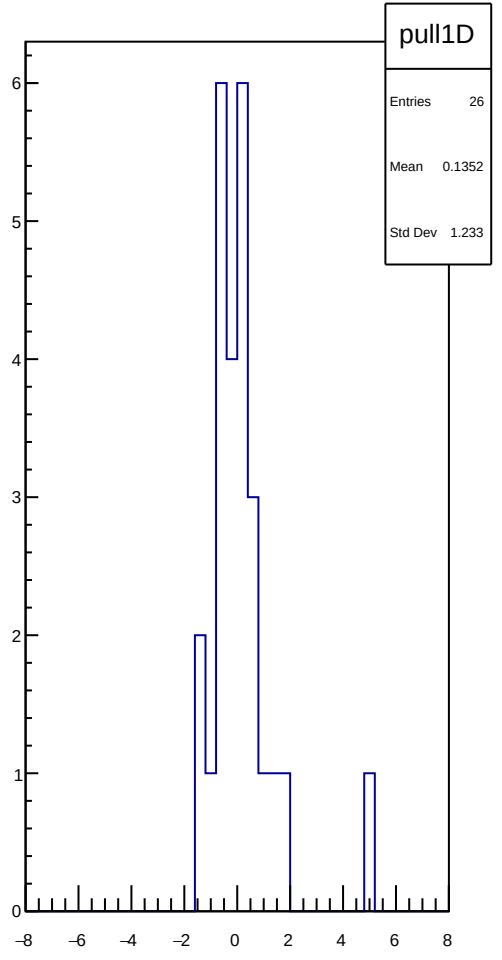

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
×10^3
χ^2 / ndf 1.678e+05 / 32
p0 1161 ± 1.668
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

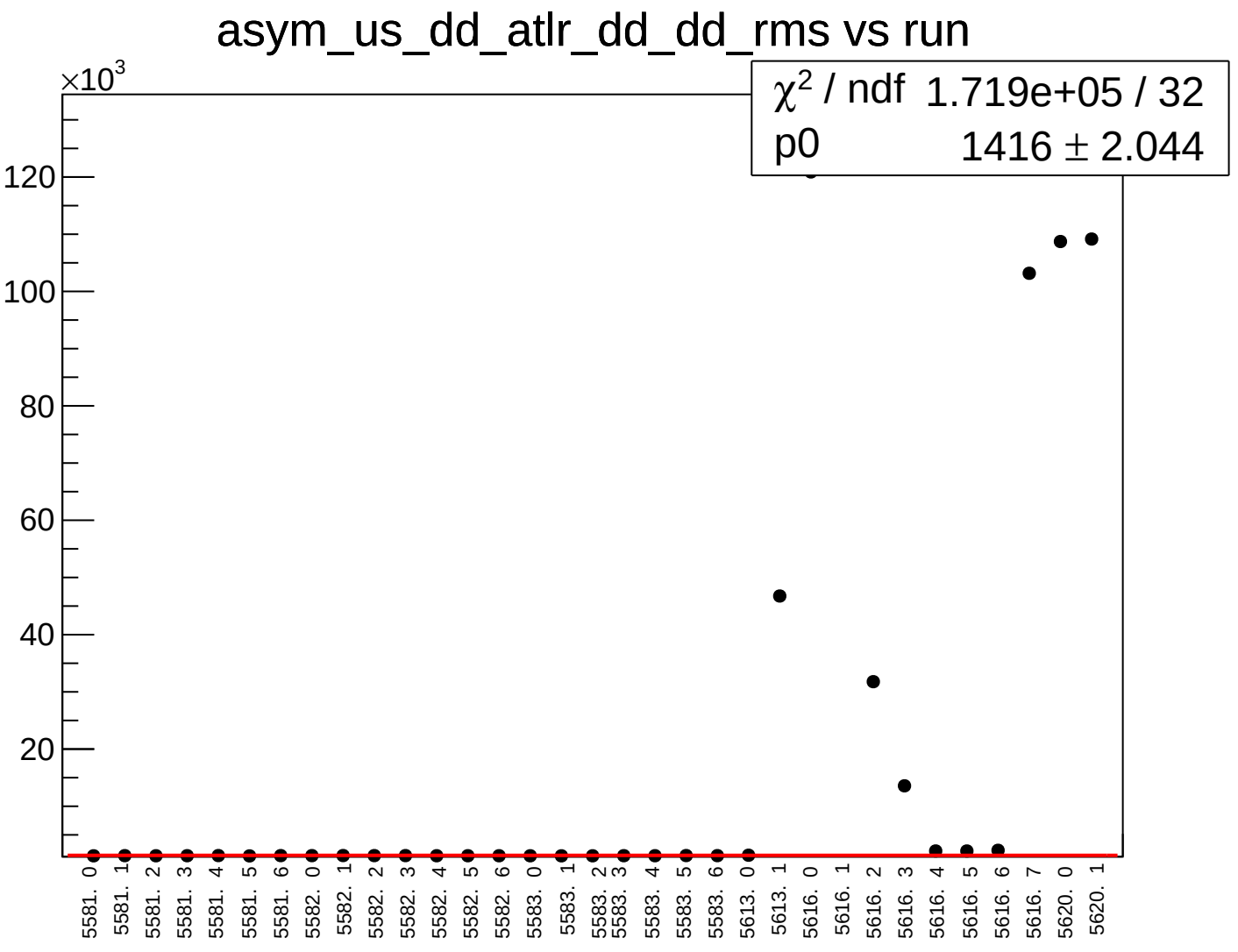

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 35.59 / 32
p0 −1759 ± 1518
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

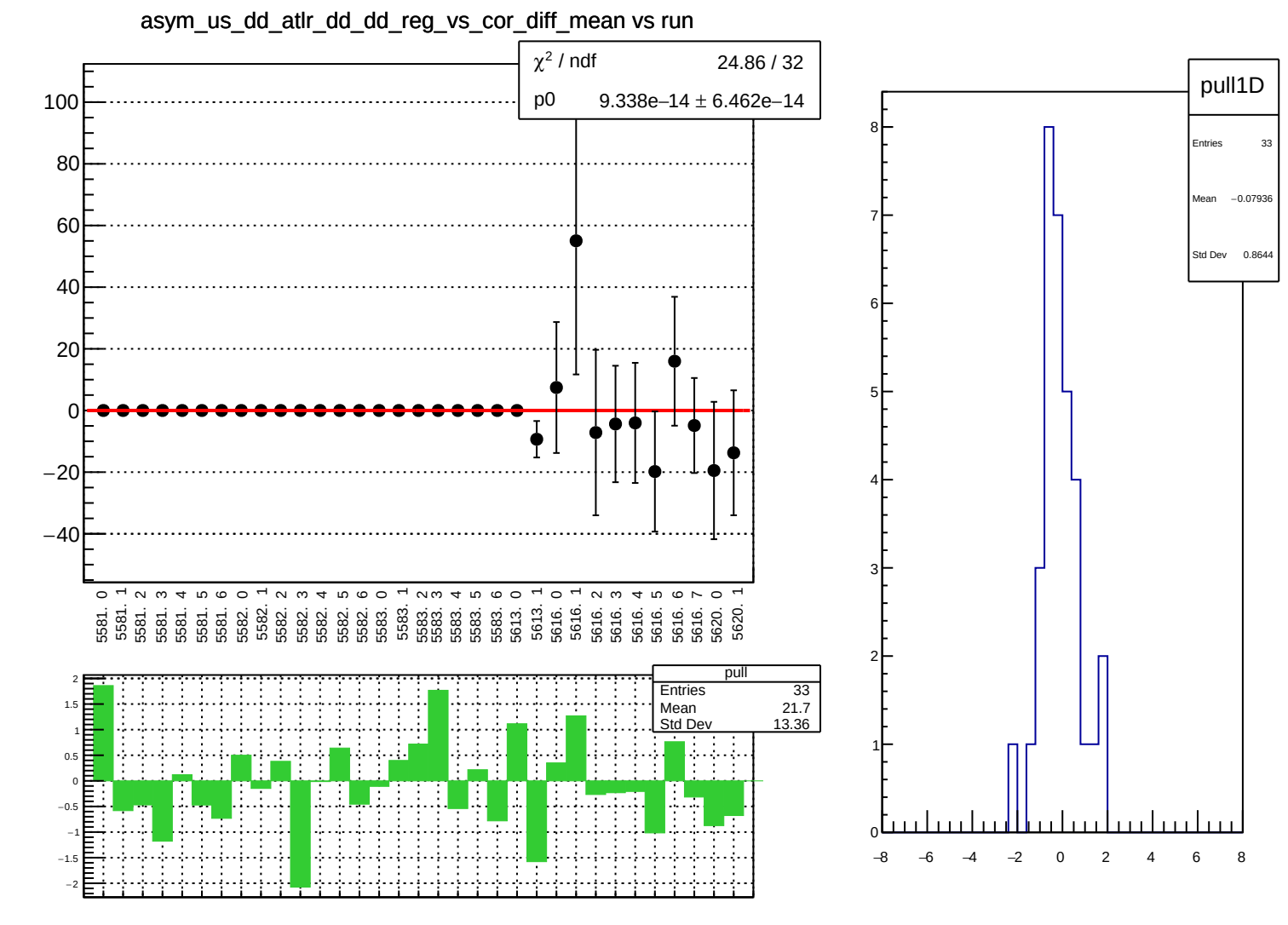

pull1D
Entries 33
Mean 0.03381
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

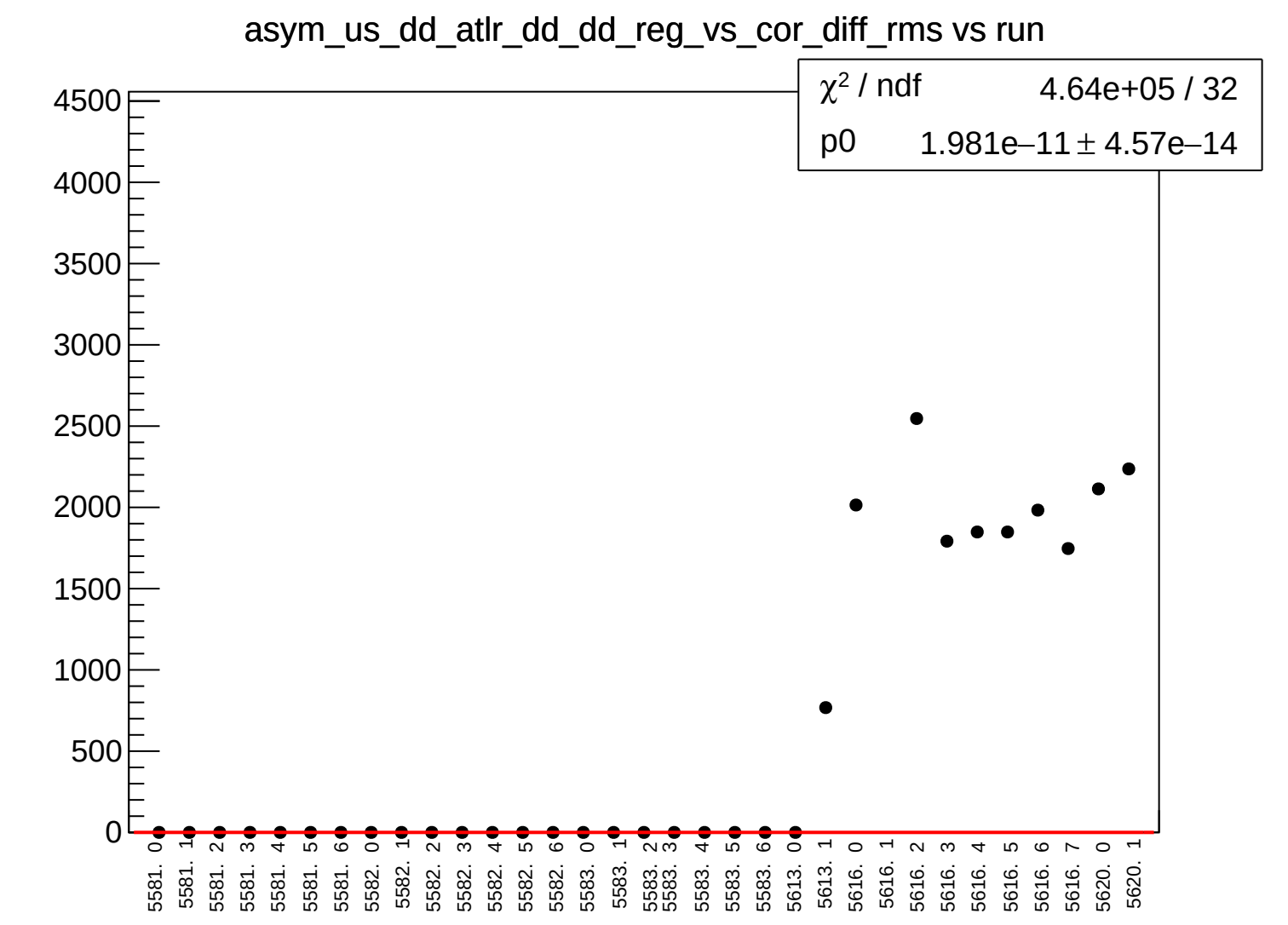

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.185e+04 / 32
p0 852.3 ± 1.074
1300
1200
1100
1000
900
800
700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

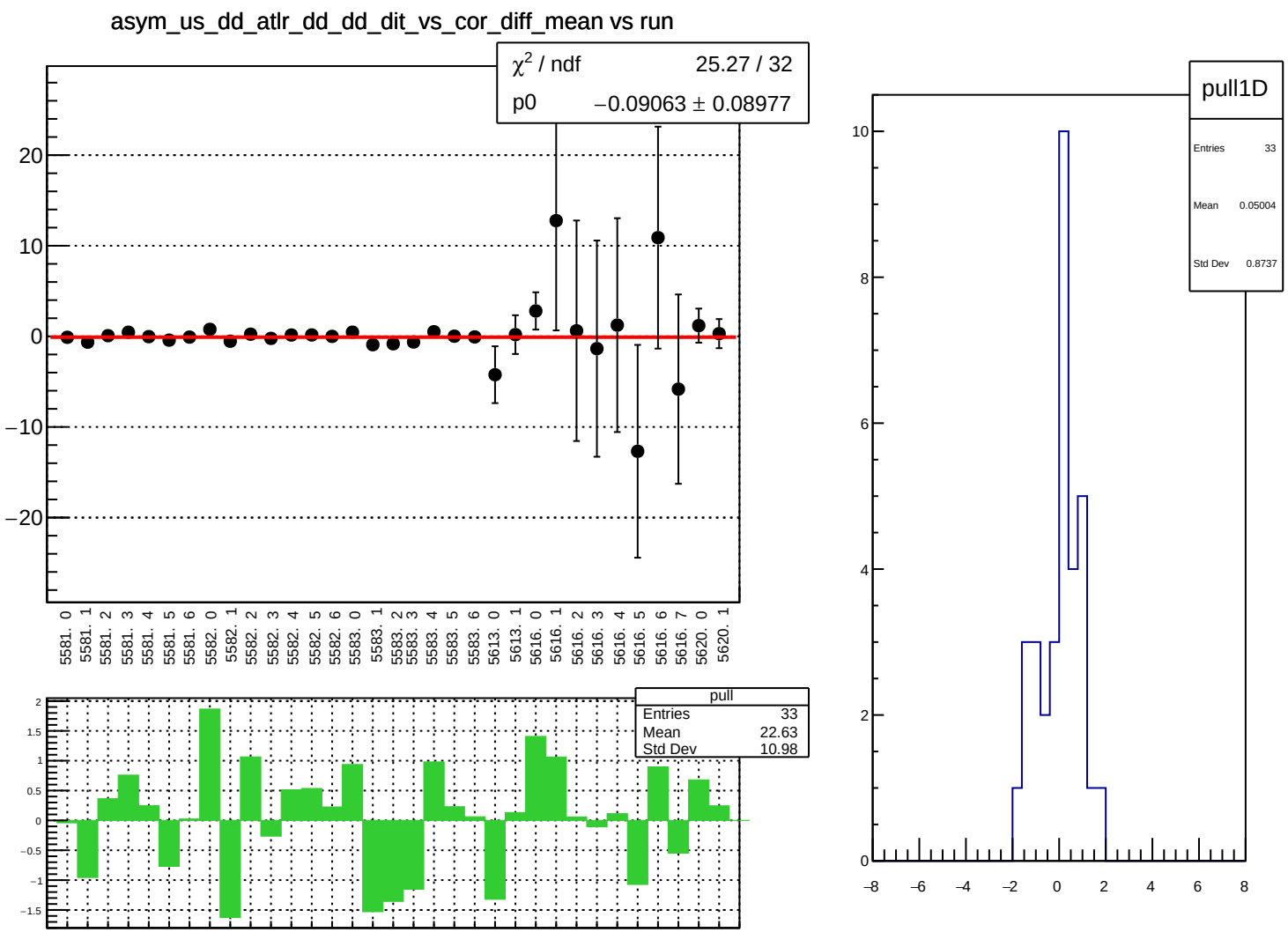

asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ^2 / ndf 40 / 25
p0 −880.7 ± 2891
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5616. 3
5616. 4
5616. 5
5616. 6
pull
Entries 26
Mean 27.17
Std Dev 0
5
4
3
2
1
0
−1

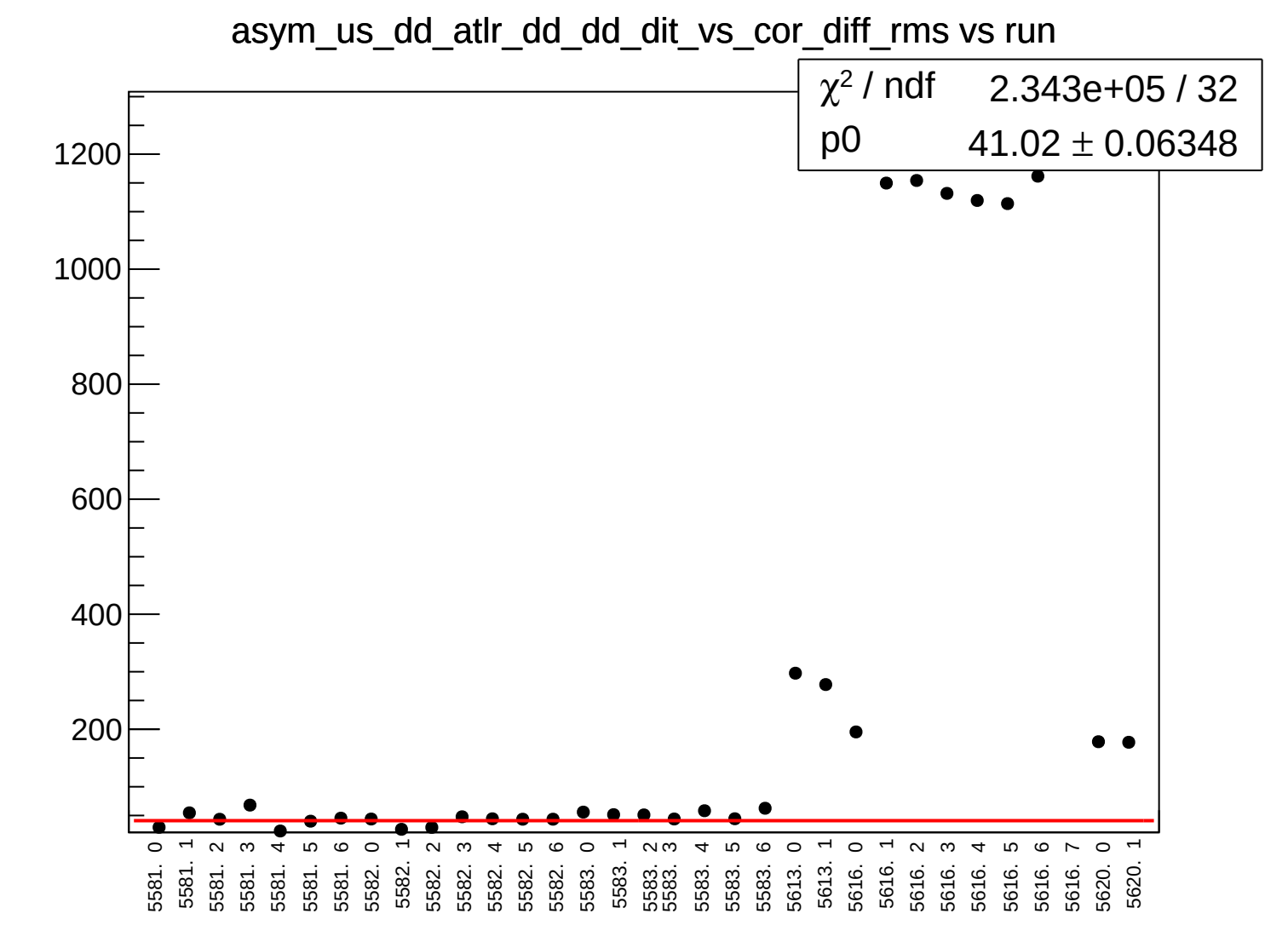

pull1D
Entries 26
Mean 0.1352
Std Dev 1.233
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

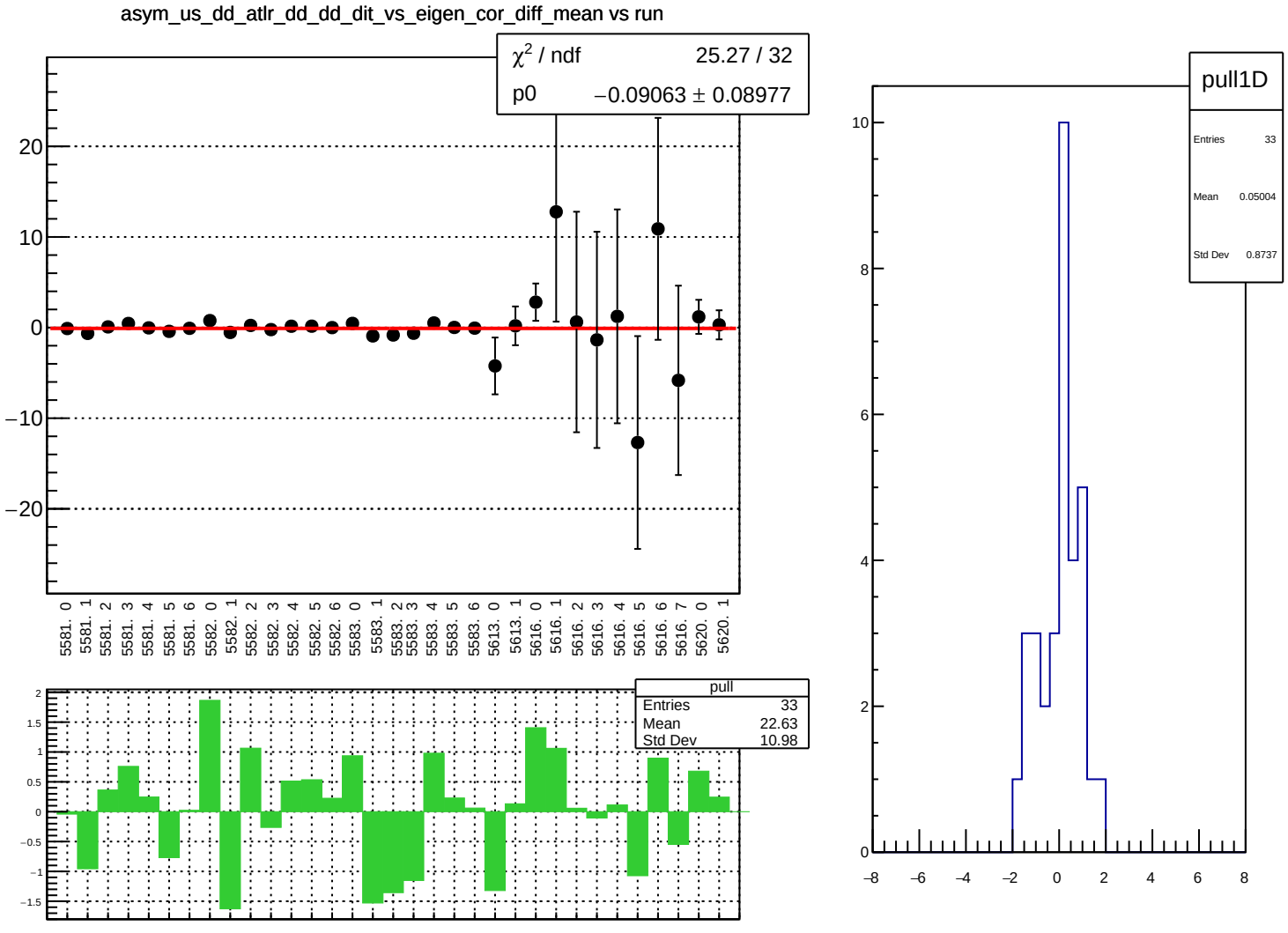

asym_us_dd_atlr_dd_dd_rms vs run
×10^3
χ^2 / ndf 1.719e+05 / 32
p0 1416 ± 2.044
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

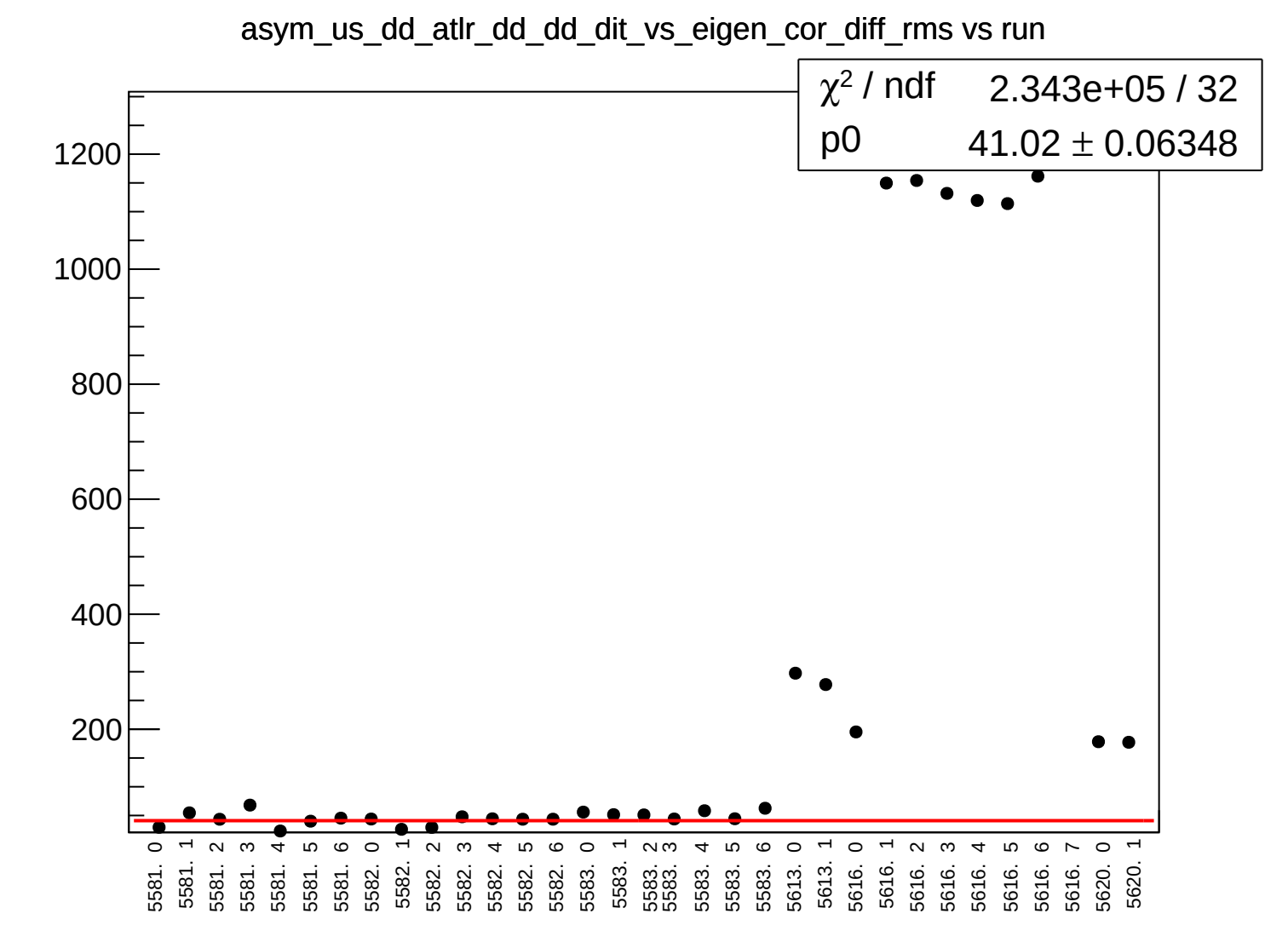

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.86 / 32
p0 9.338e−14 ± 6.462e−14
100
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.7
Std Dev 13.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.07936
Std Dev 0.8644
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

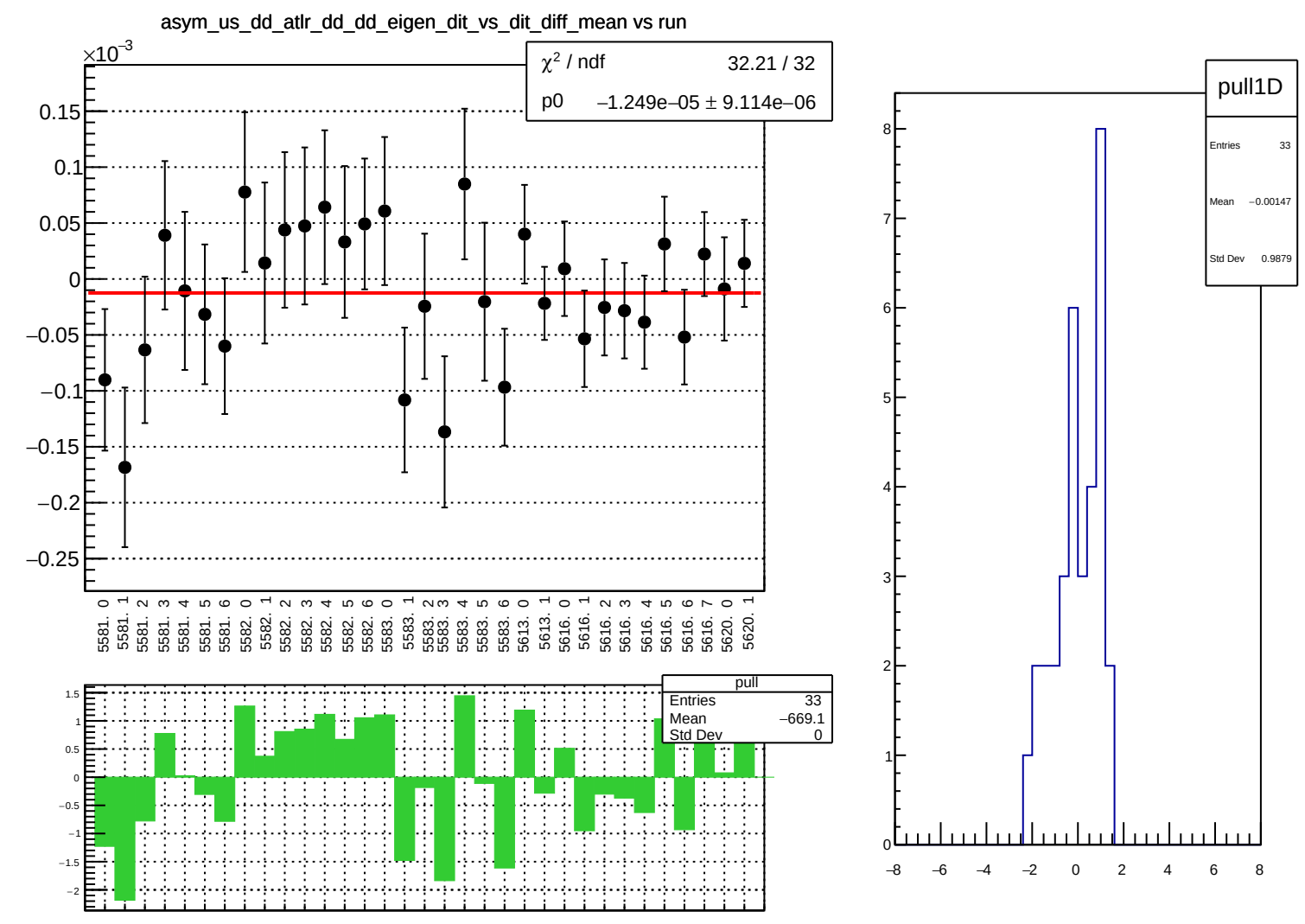

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.64e+05 / 32
p0 1.981e−11 ± 4.57e−14
4500
4000
3500
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

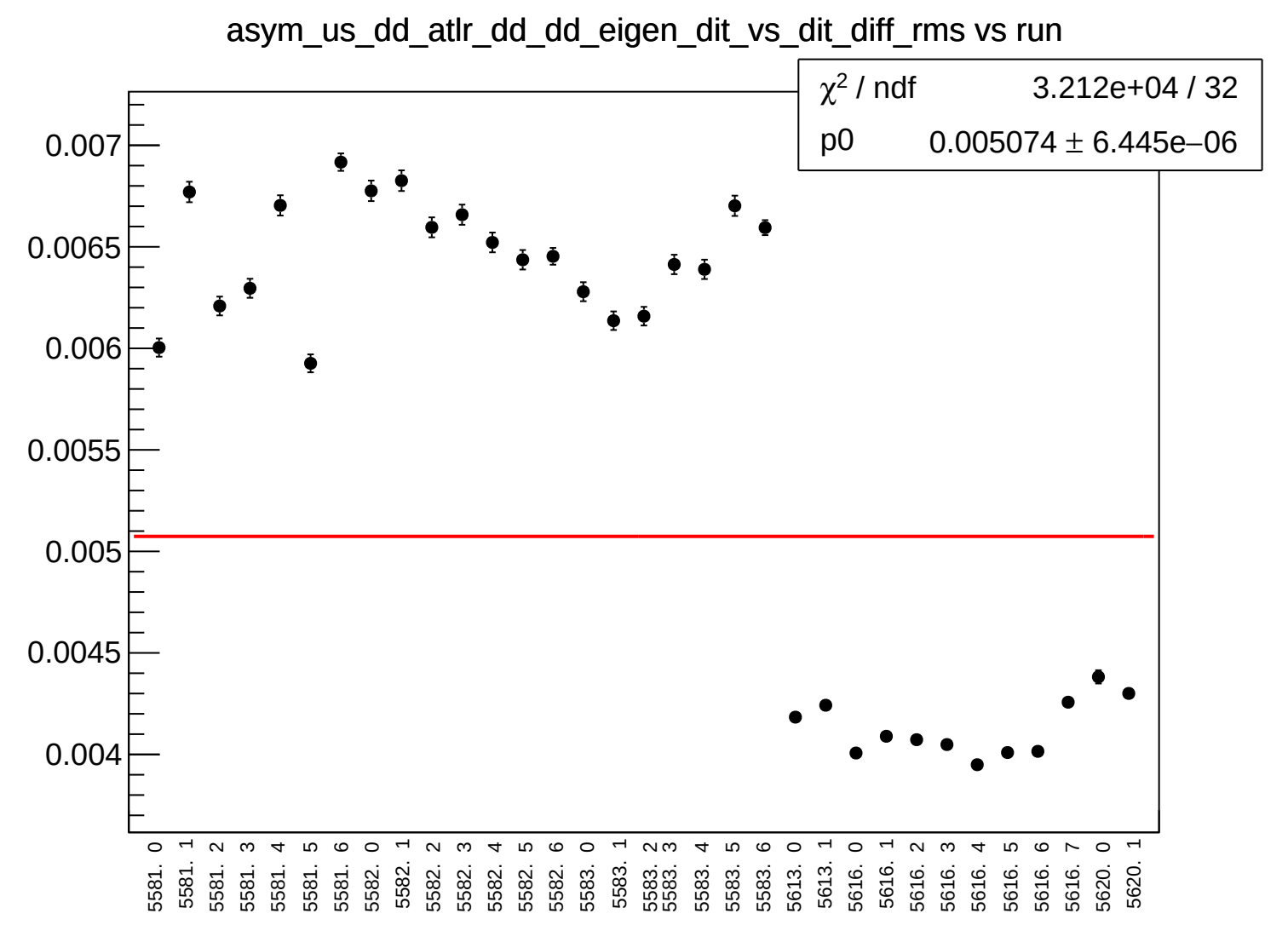

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 25.27 / 32
p0 −0.09063 ± 0.08977
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.63
Std Dev 10.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.05004
Std Dev 0.8737
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

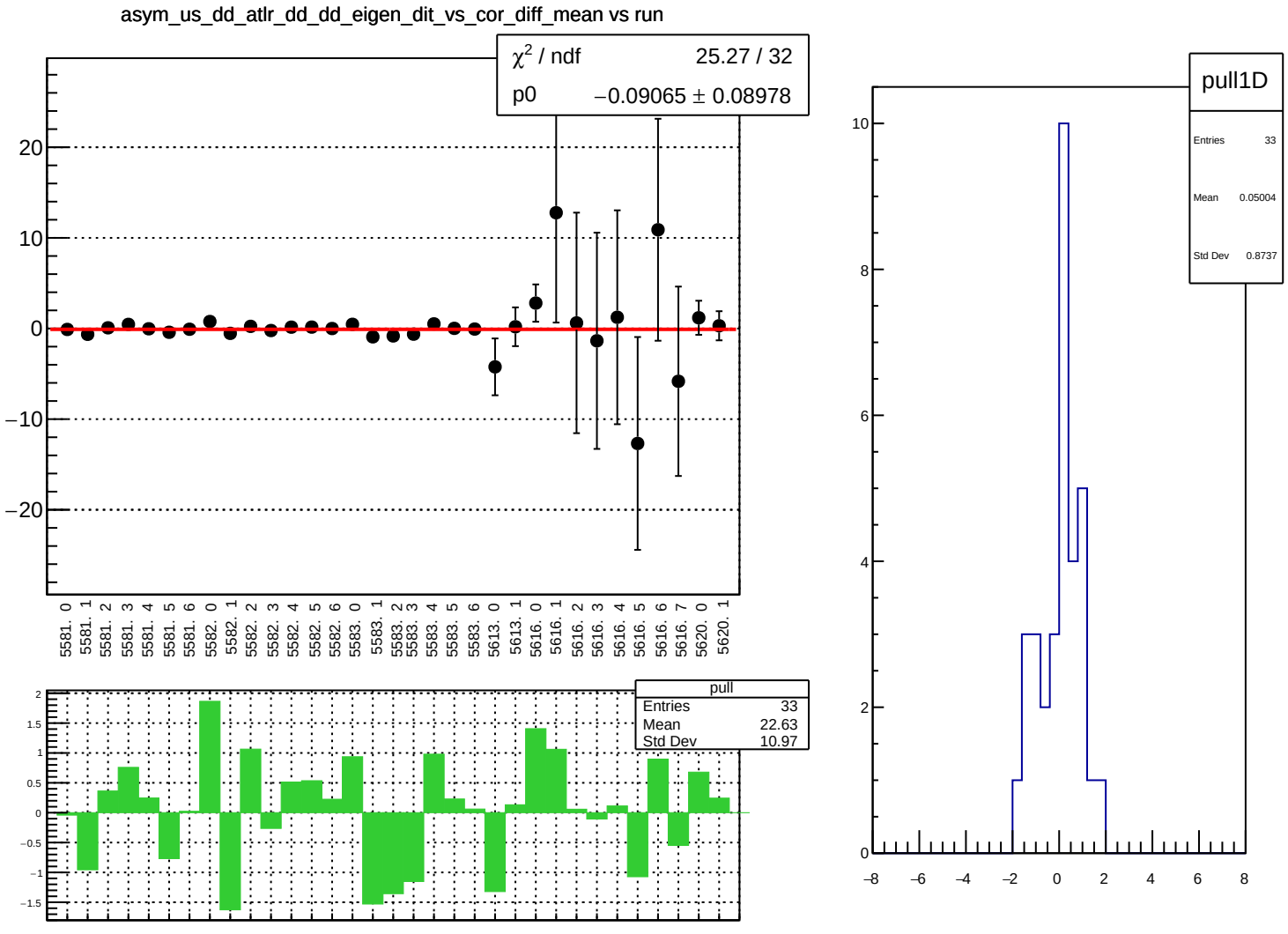

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.343e+05 / 32
p0 41.02 ± 0.06348
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

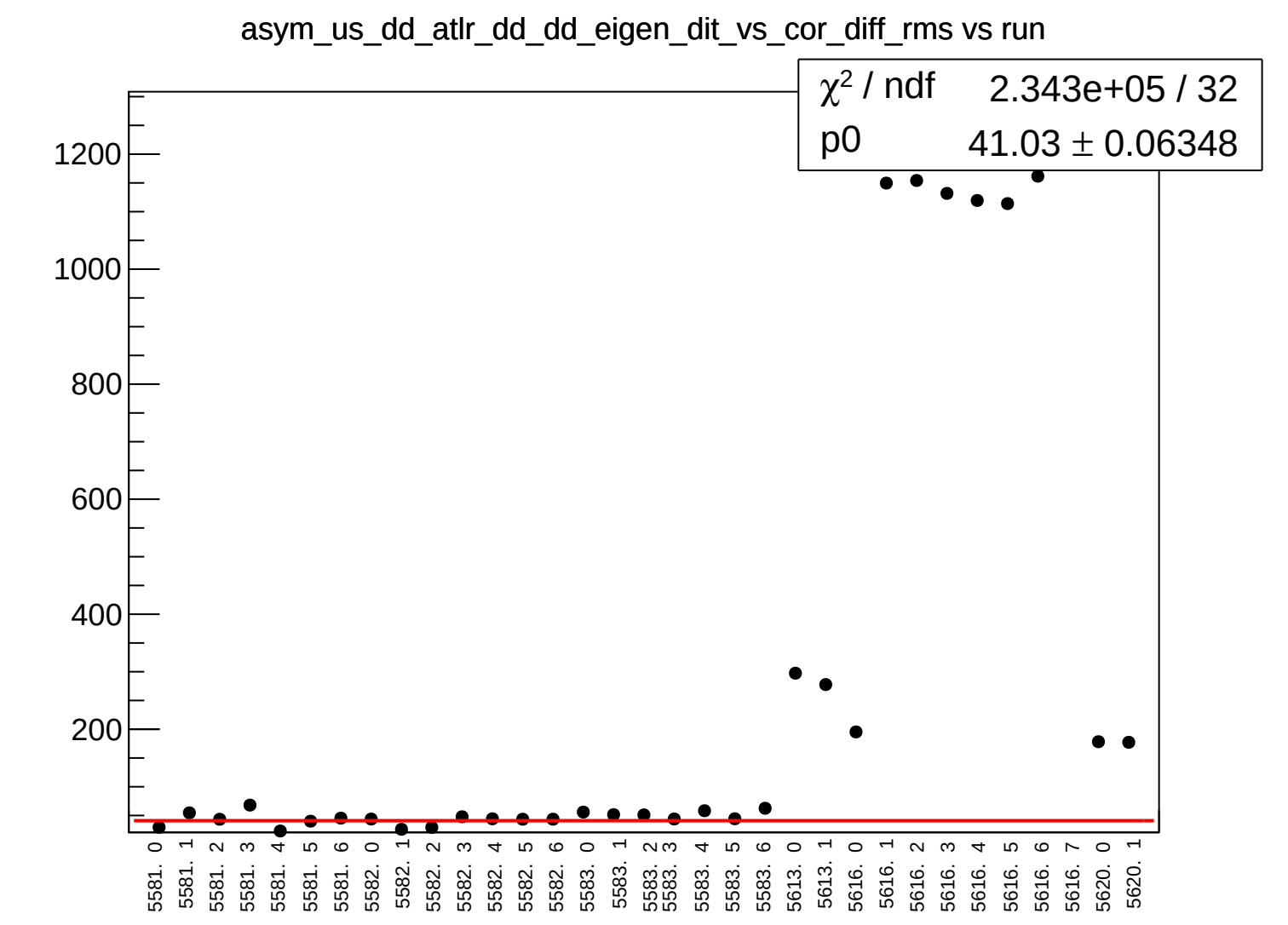

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.27 / 32
p0 −0.09063 ± 0.08977
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.63
Std Dev 10.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.05004
Std Dev 0.8737
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

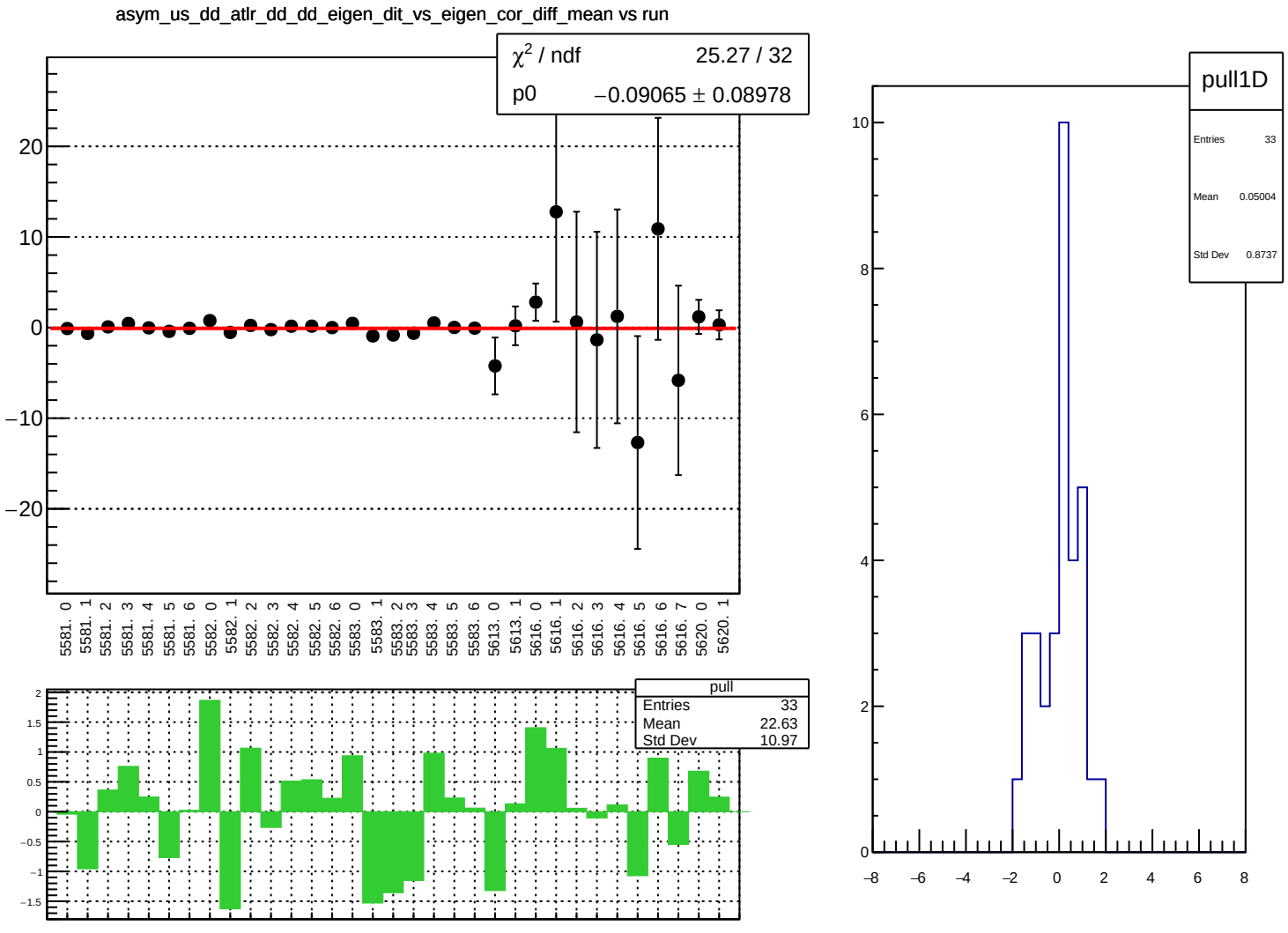

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.343e+05 / 32
p0 41.02 ± 0.06348
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

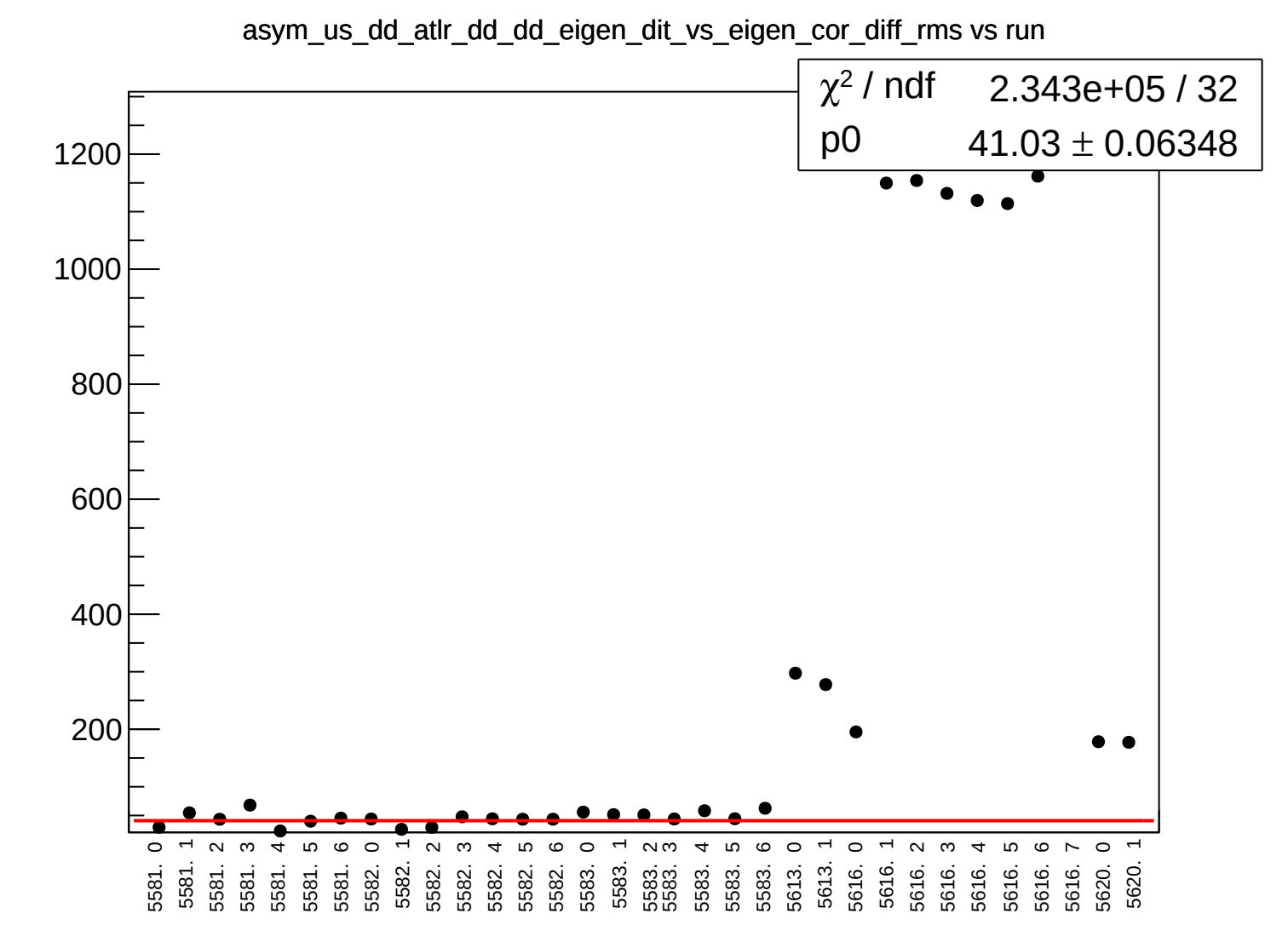

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 32.21 / 32
p0 −1.249e−05 ± 9.114e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −669.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.00147
Std Dev 0.9879
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

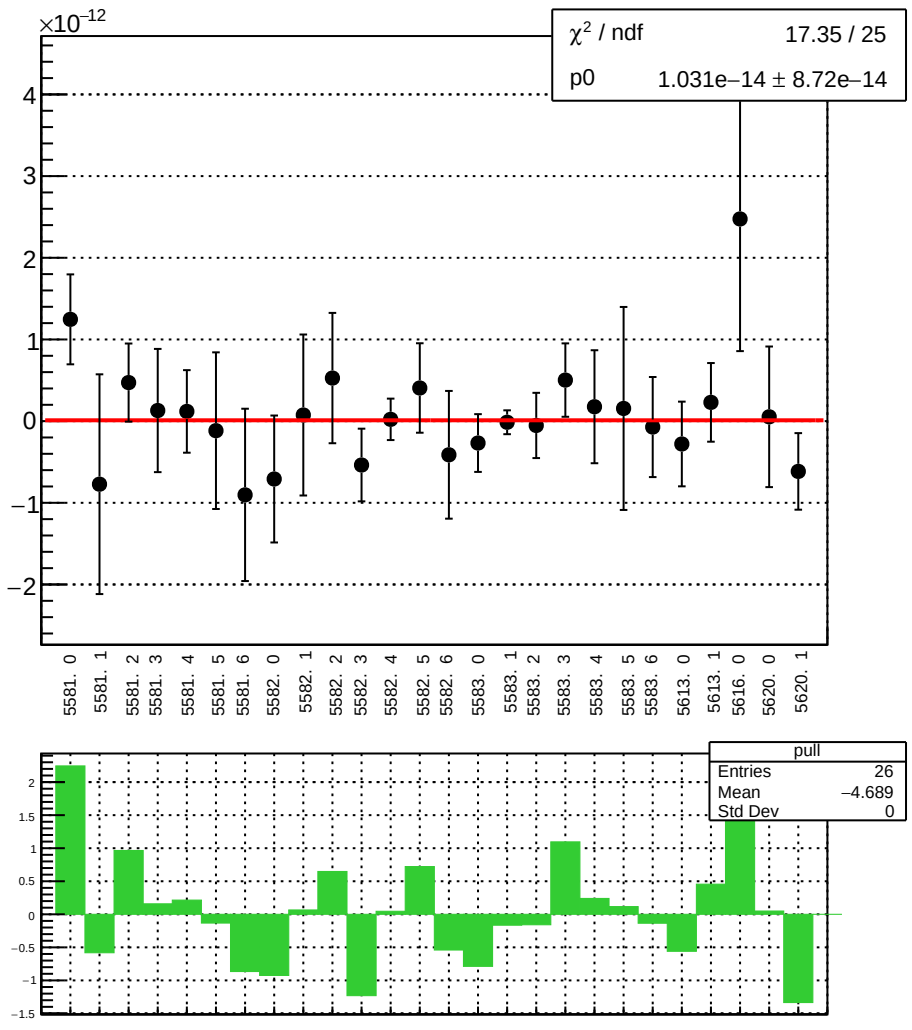

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.212e+04 / 32
p0 0.005074 ± 6.445e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

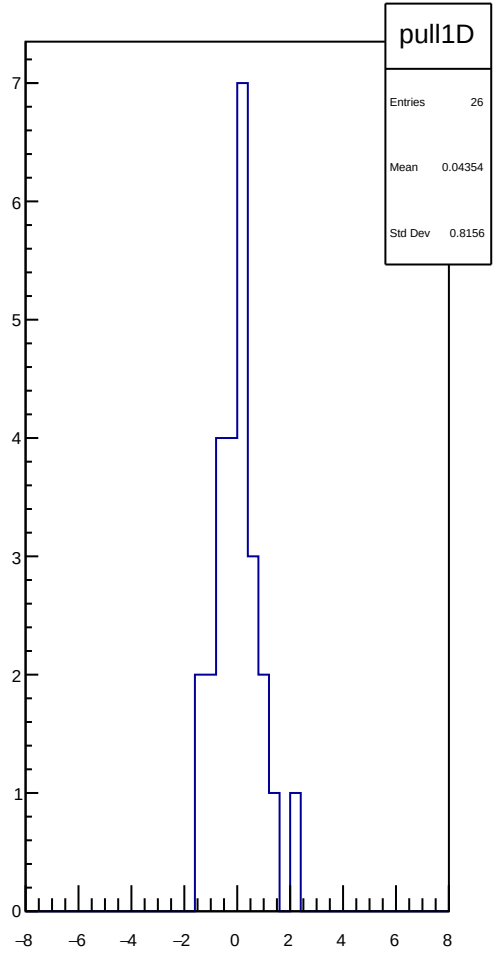

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.27 / 32
p0 −0.09065 ± 0.08978
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.63
Std Dev 10.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.05004
Std Dev 0.8737
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

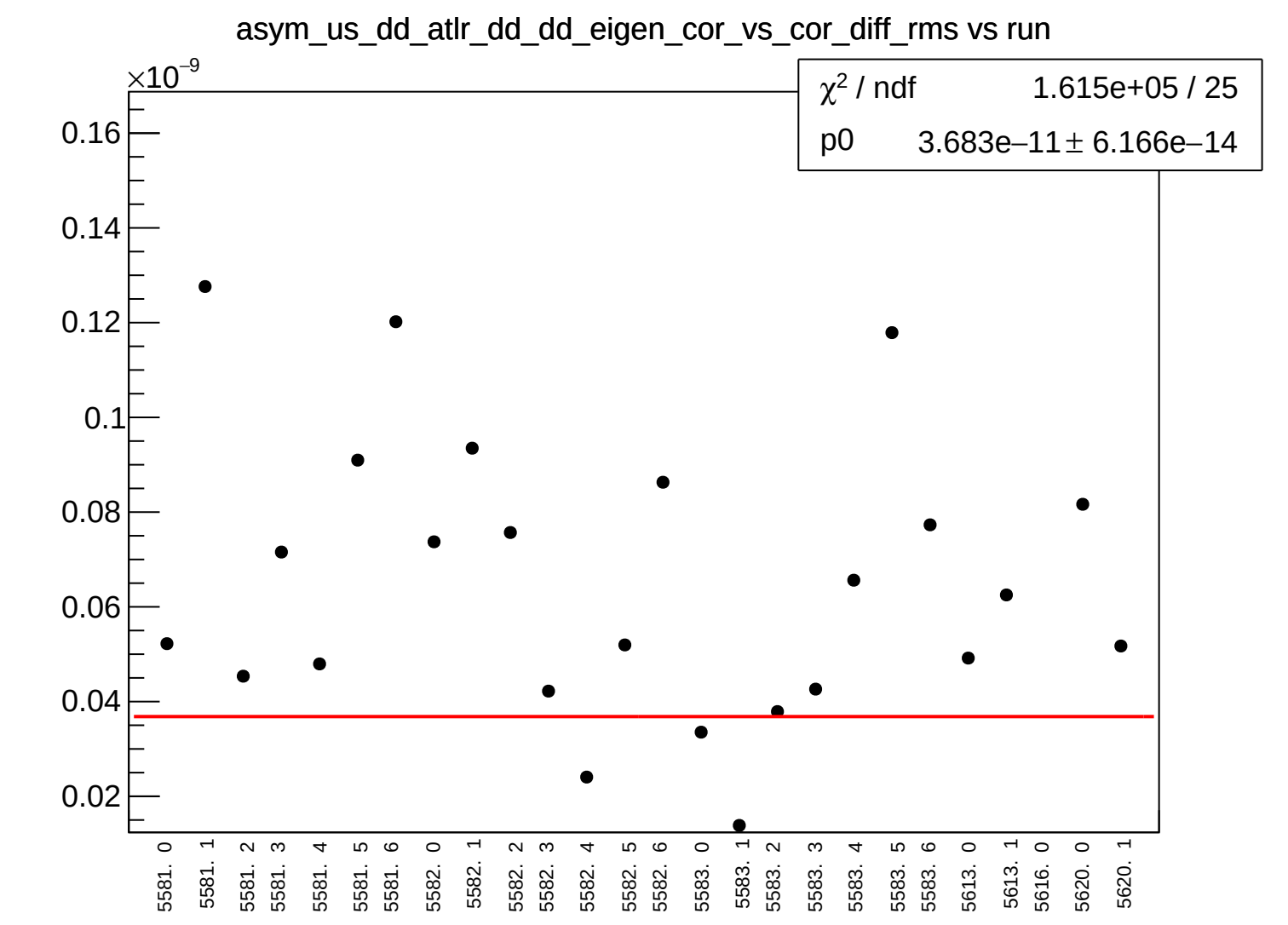

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.343e+05 / 32
p0 41.03 ± 0.06348
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

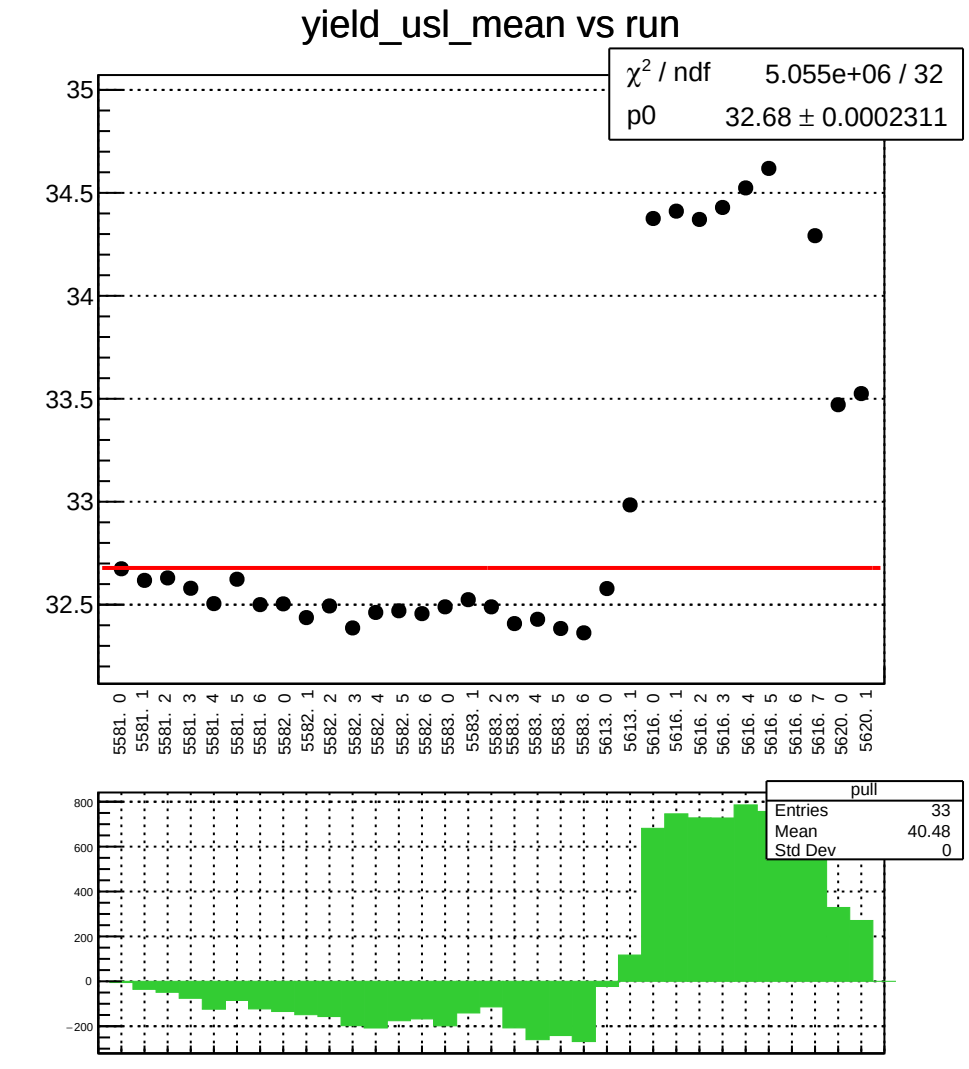

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.27 / 32
p0 −0.09065 ± 0.08978
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.63
Std Dev 10.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.05004
Std Dev 0.8737
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

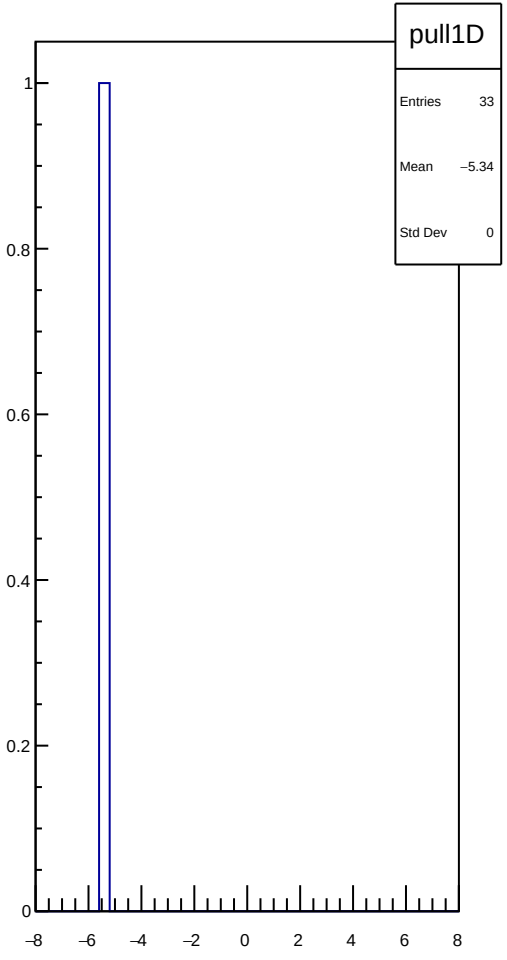

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.343e+05 / 32
p0 41.03 ± 0.06348
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

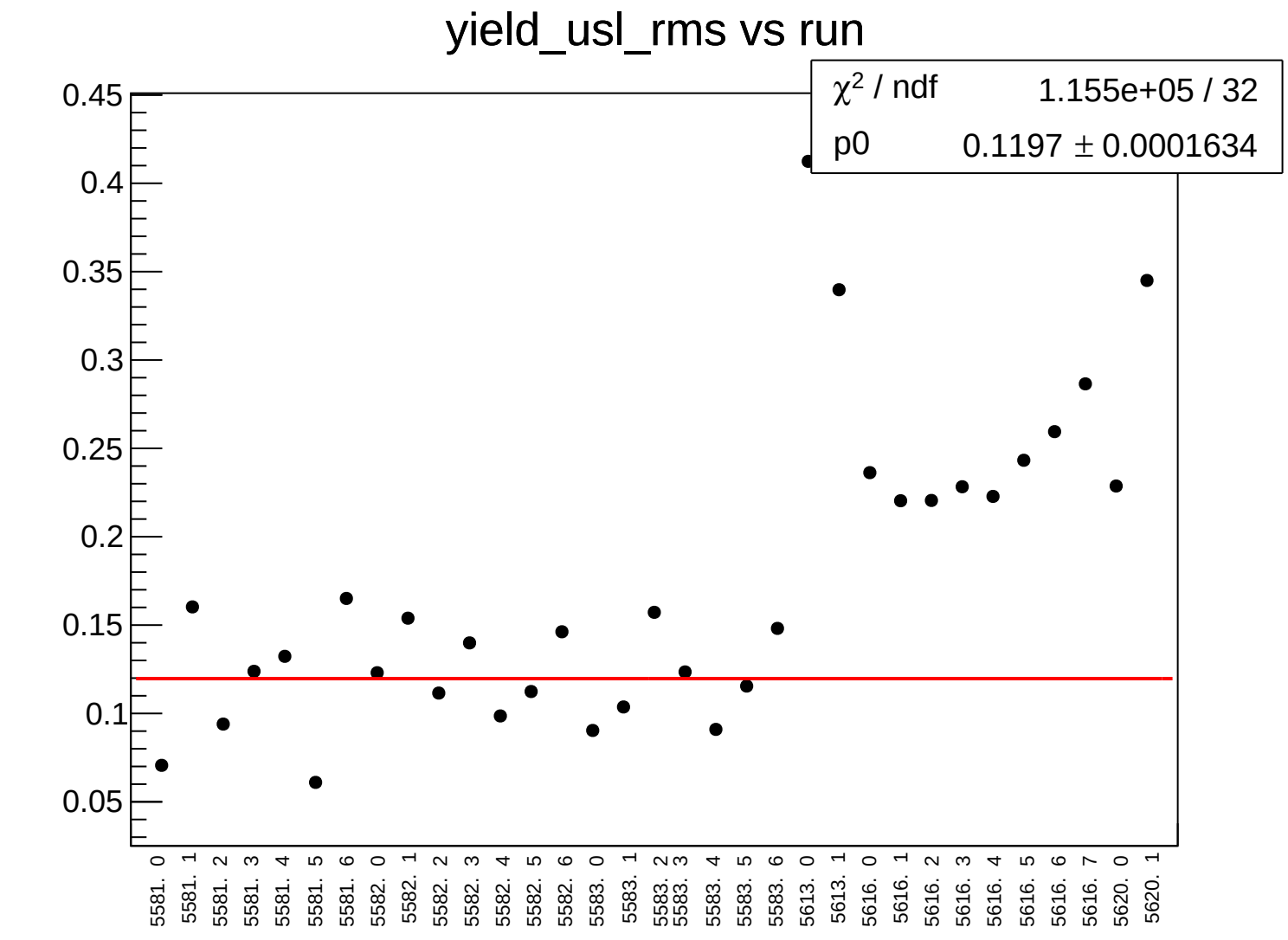

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 17.35 / 25
p0 1.031e−14 ± 8.72e−14
4
3
2
1
0
−1
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −4.689
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

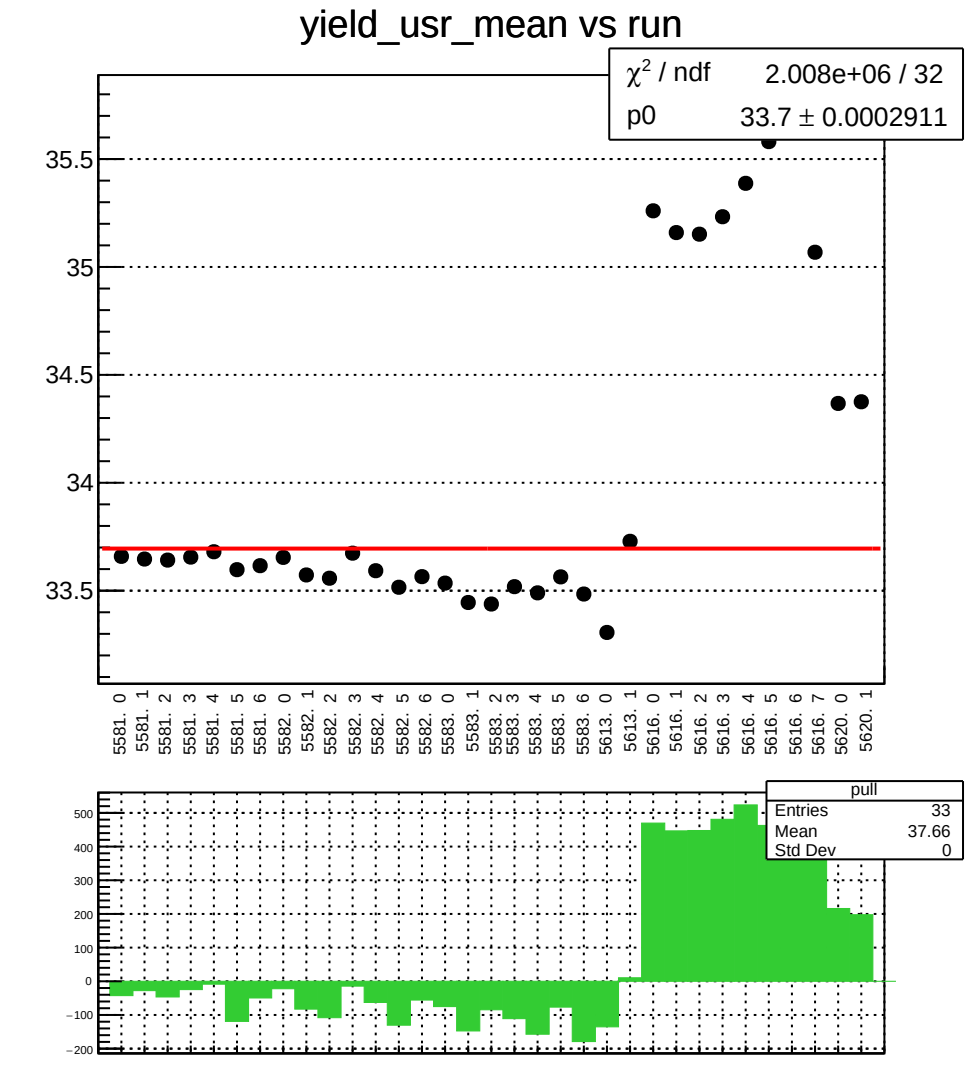

pull1D
Entries 26
Mean 0.04354
Std Dev 0.8156
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

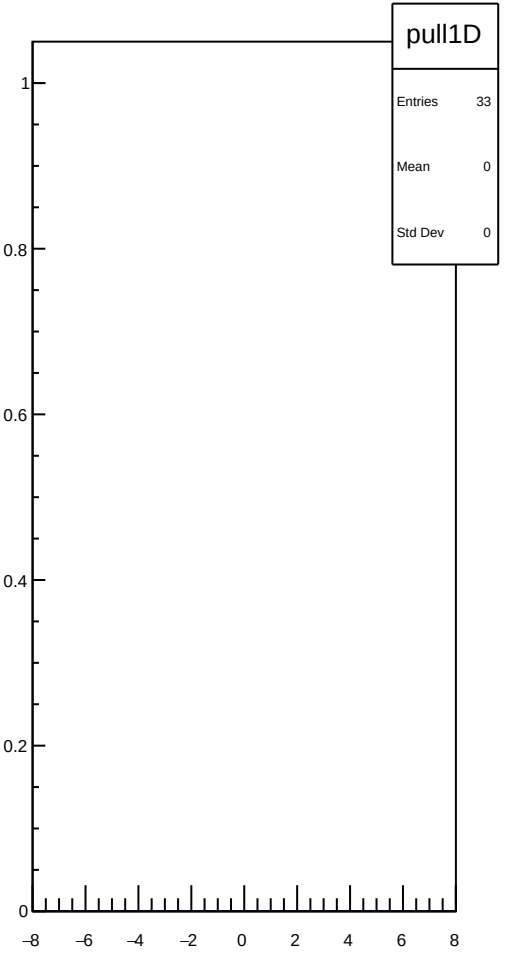

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.615e+05 / 25
p0 3.683e−11 ± 6.166e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

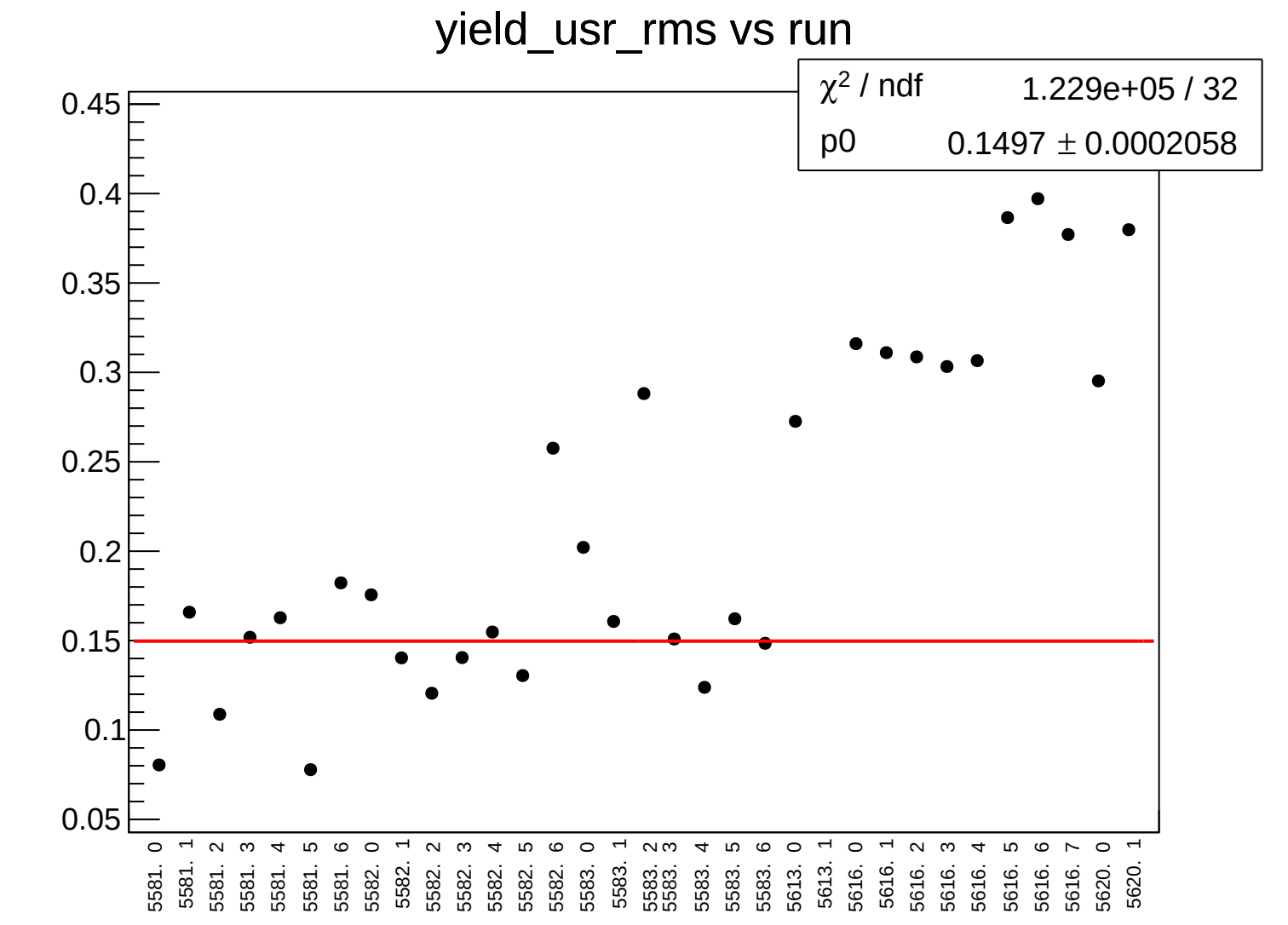

yield_usl_mean vs run
χ² / ndf 5.055e+06 / 32
p0 32.68 ± 0.0002311
35
34.5
34
33.5
33
32.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.48
Std Dev 0
800
600
400
200
0
−200

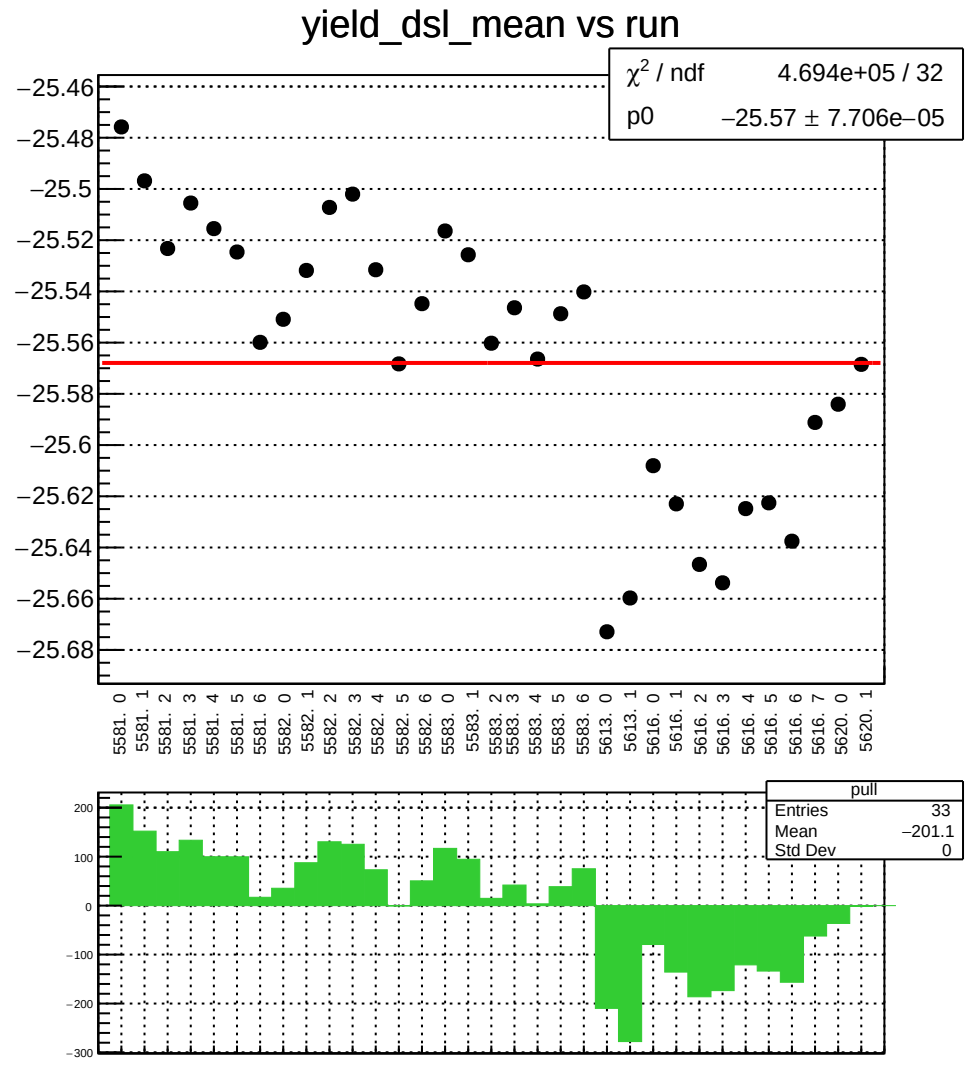

pull1D
Entries 33
Mean −5.34
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

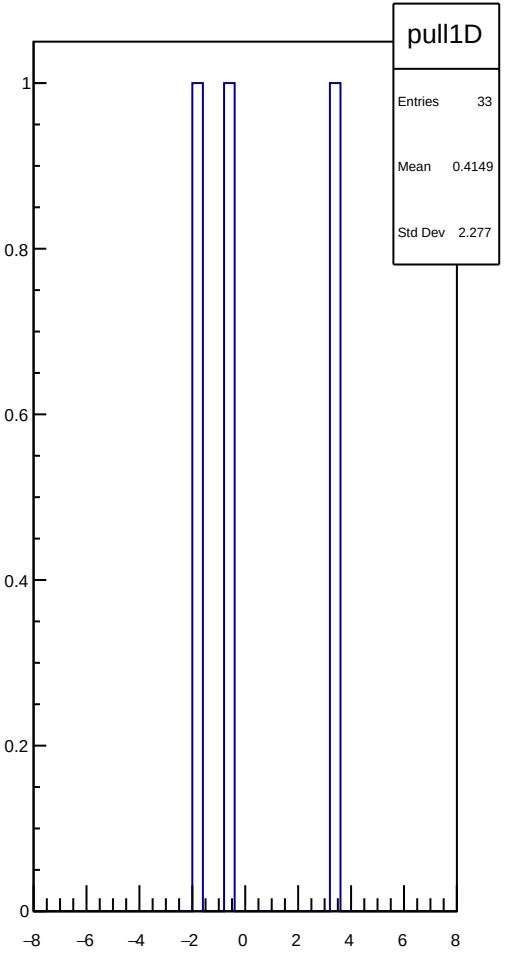

yield_usl_rms vs run
χ² / ndf 1.155e+05 / 32
p0 0.1197 ± 0.0001634
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

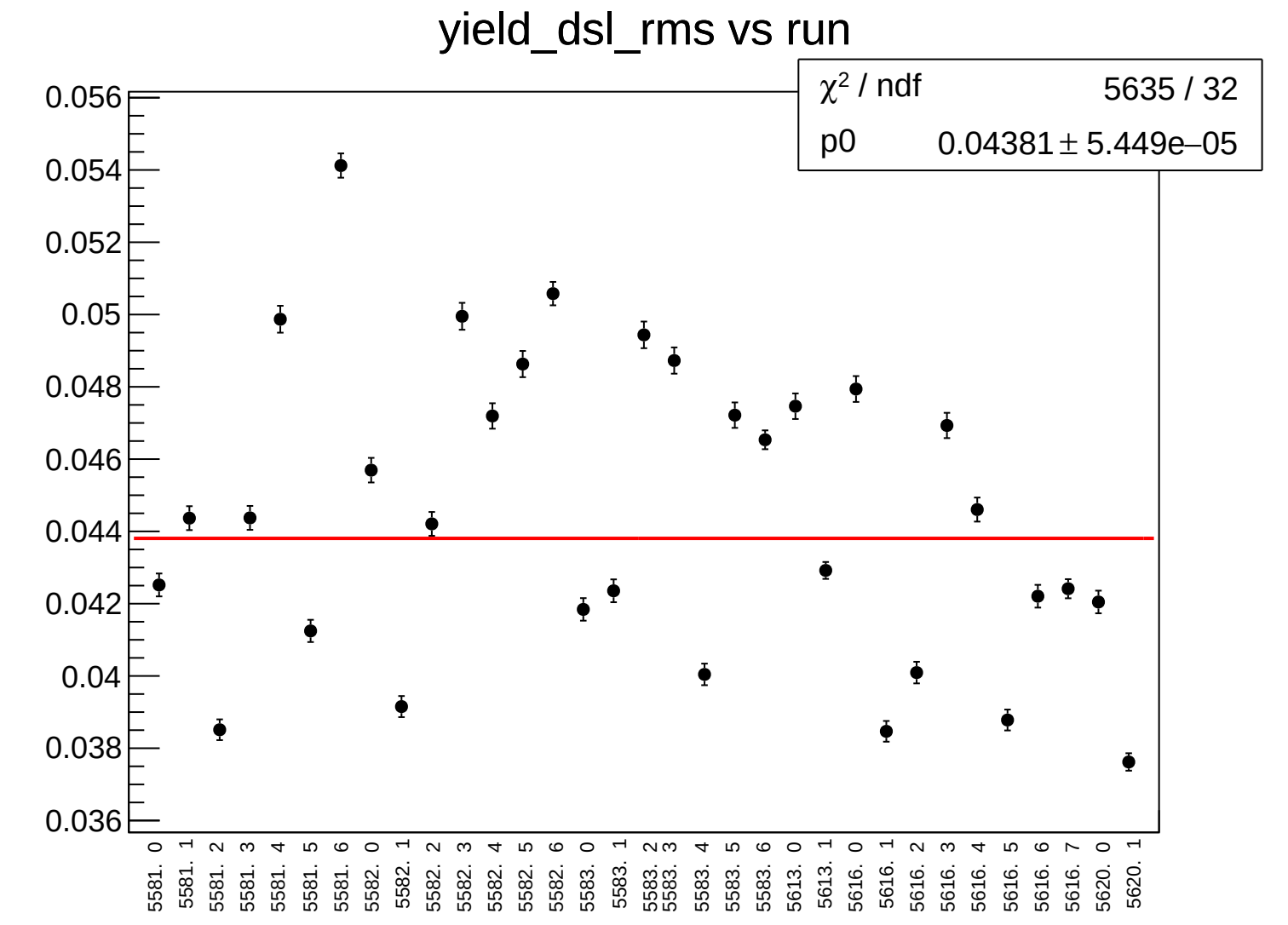

yield_usr_mean vs run
χ² / ndf 2.008e+06 / 32
p0 33.7 ± 0.0002911
35.5
35
34.5
34
33.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.66
Std Dev 0
500
400
300
200
100
0
−100
−200

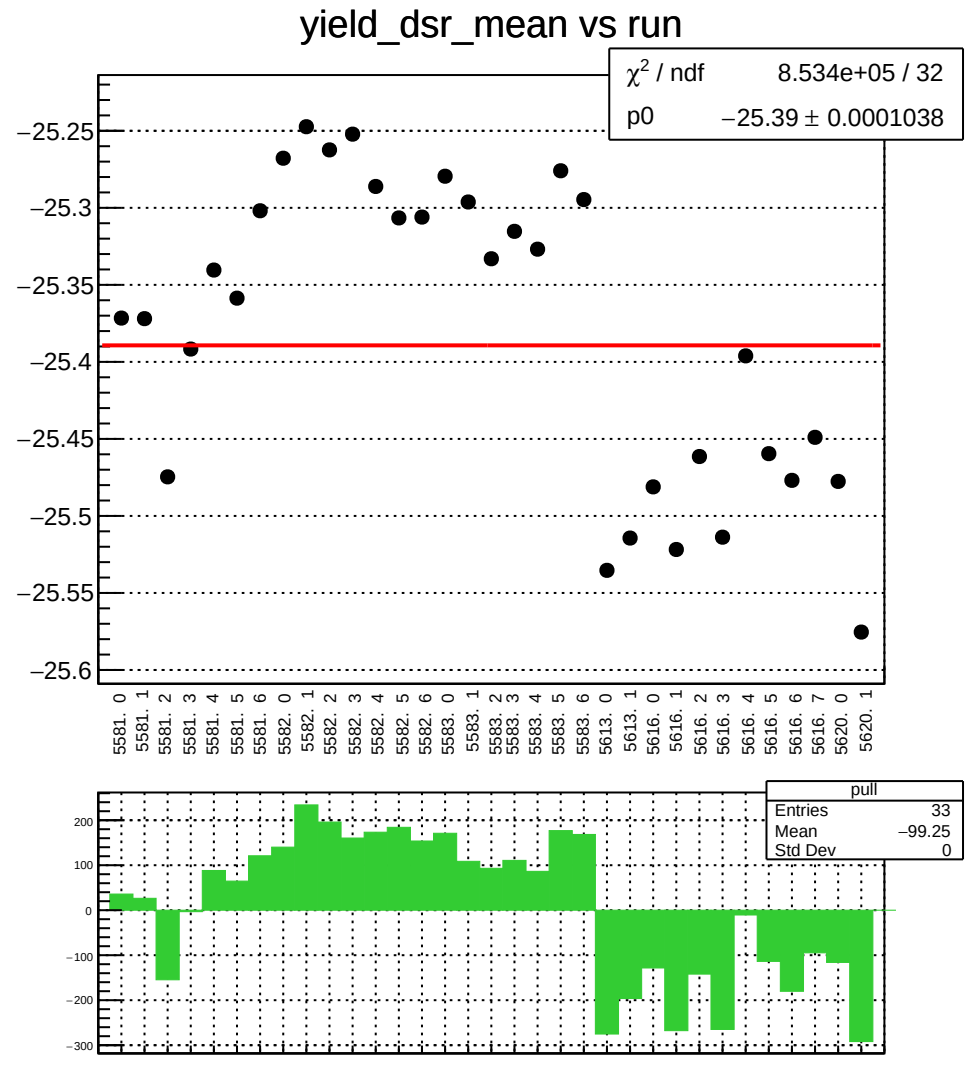

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

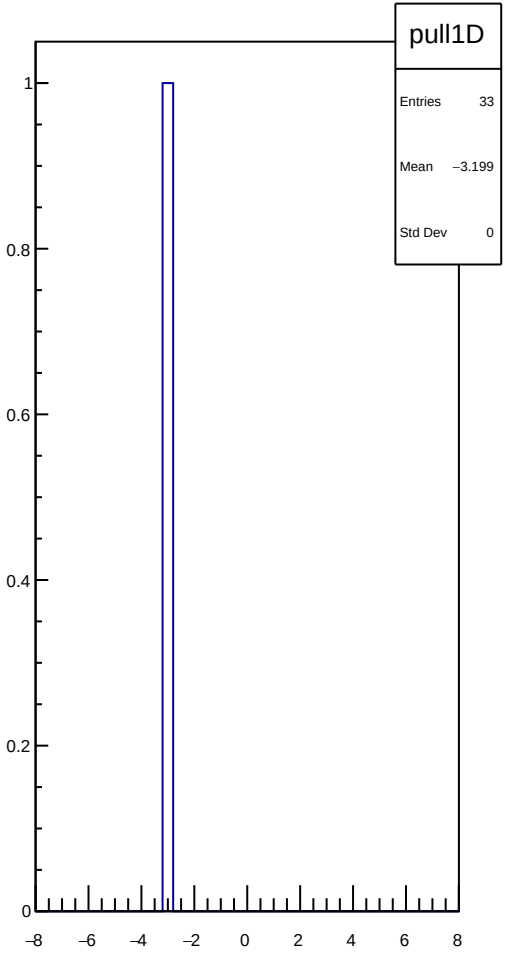

yield_usr_rms vs run
χ² / ndf 1.229e+05 / 32
p0 0.1497 ± 0.0002058
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

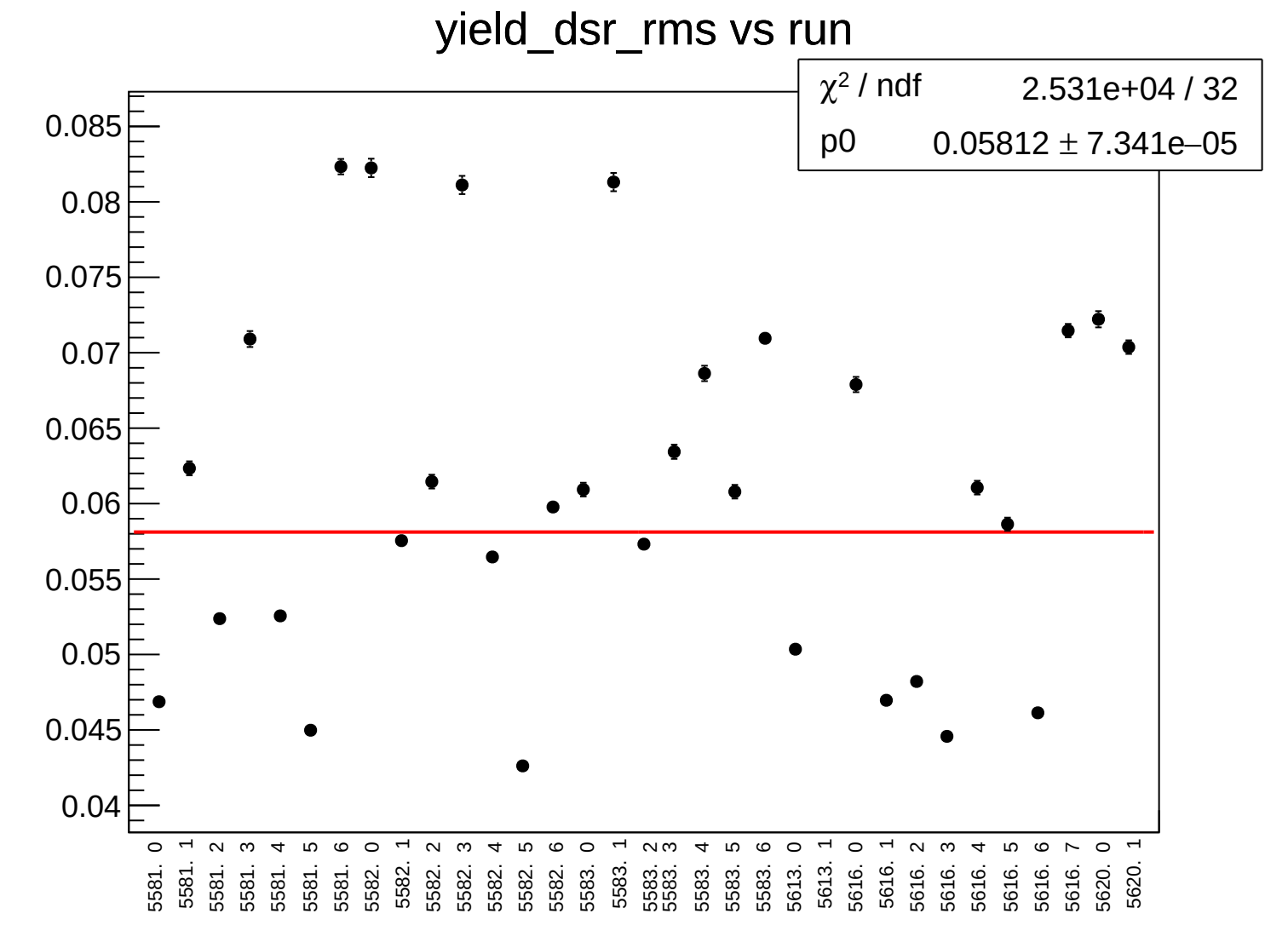

yield_dsl_mean vs run
χ² / ndf 4.694e+05 / 32
p0 −25.57 ± 7.706e−05
−25.46
−25.48
−25.5
−25.52
−25.54
−25.56
−25.58
−25.6
−25.62
−25.64
−25.66
−25.68
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −201.1
Std Dev 0
200
100
0
−100
−200
−300

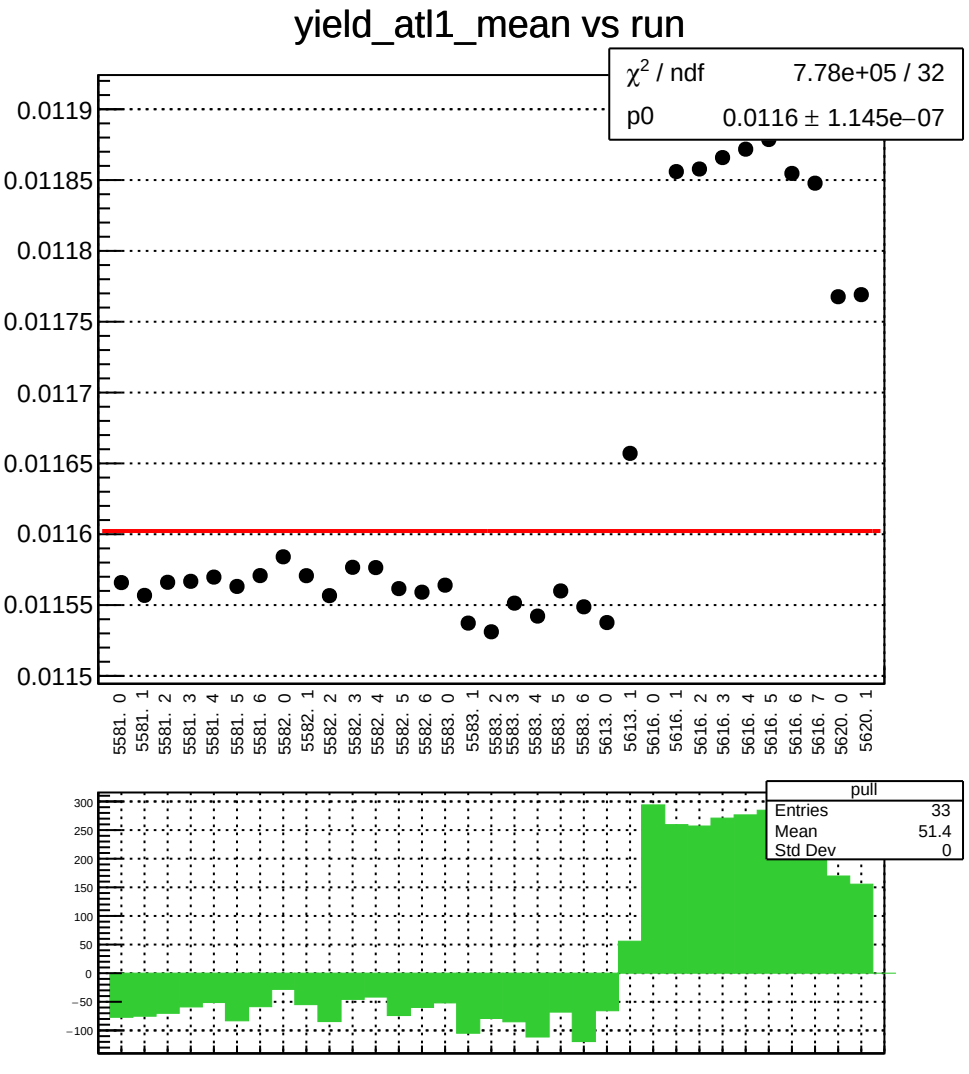

pull1D
Entries 33
Mean 0.4149
Std Dev 2.277
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

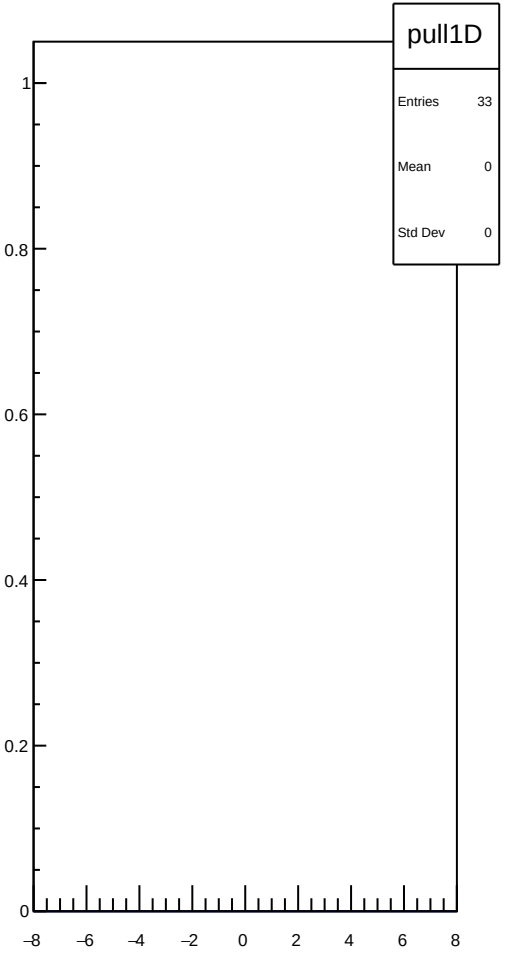

yield_dsl_rms vs run
χ² / ndf 5635 / 32
p0 0.04381 ± 5.449e−05
0.056
0.054
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
0.036
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

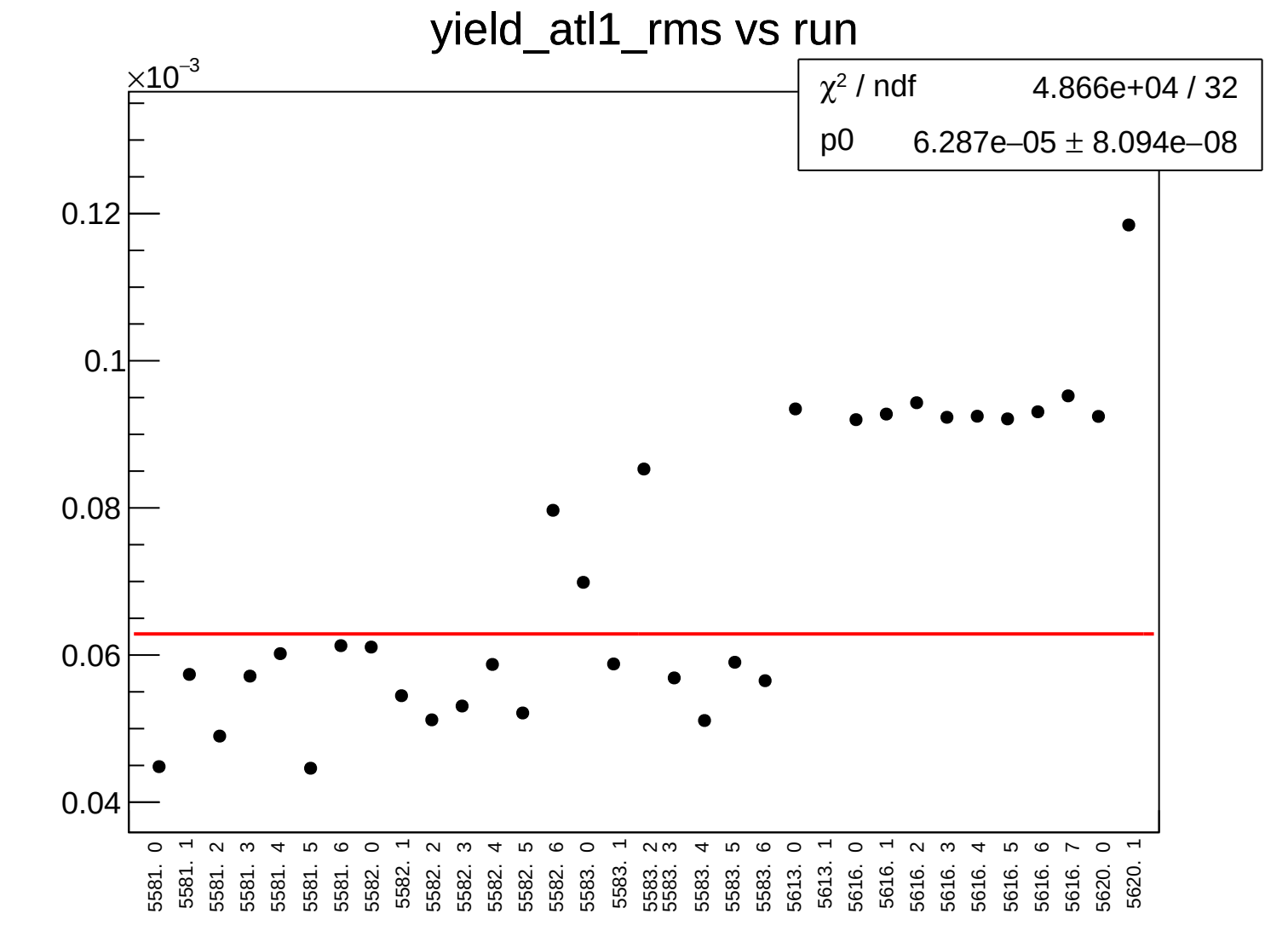

yield_dsr_mean vs run
χ² / ndf 8.534e+05 / 32
p0 −25.39 ± 0.0001038
−25.25
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
−25.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −99.25
Std Dev 0
200
100
0
−100
−200
−300

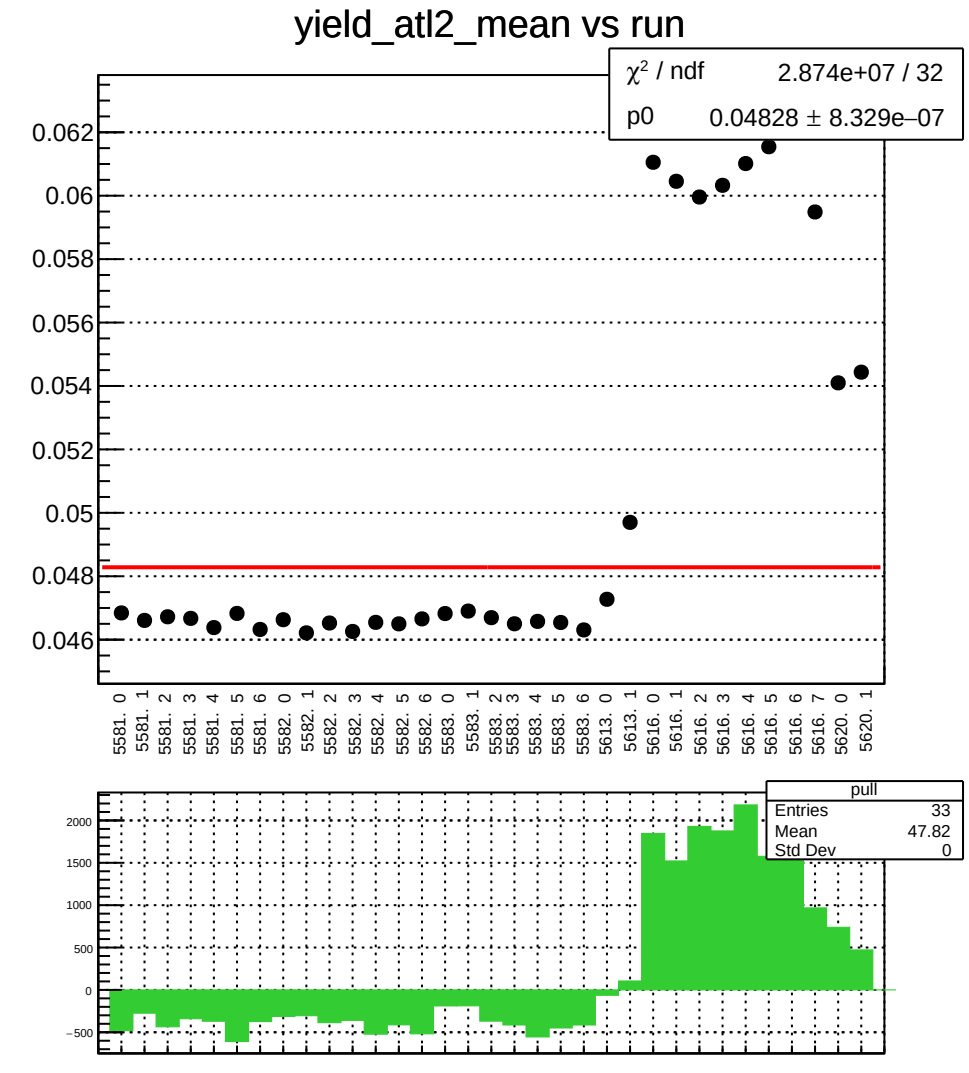

pull1D
Entries 33
Mean −3.199
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

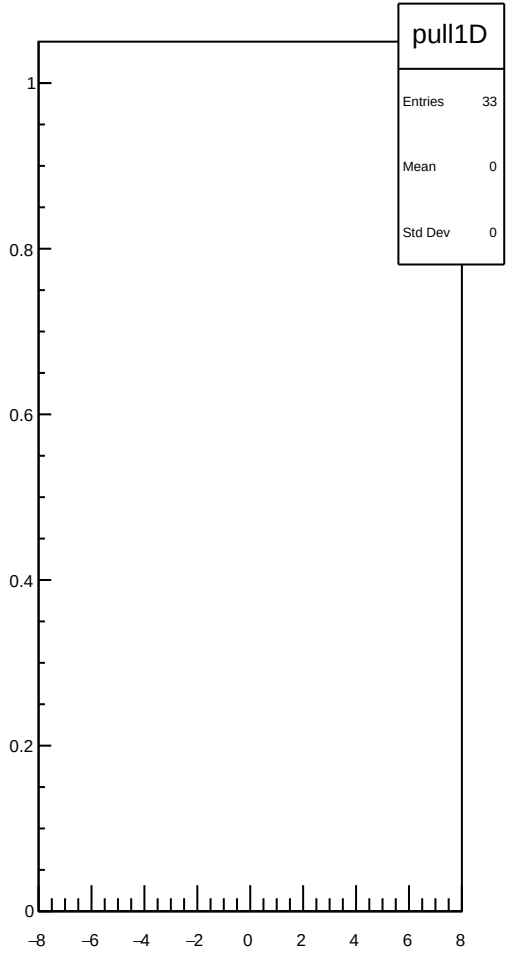

yield_dsr_rms vs run
χ² / ndf 2.531e+04 / 32
p0 0.05812 ± 7.341e−05
0.085
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

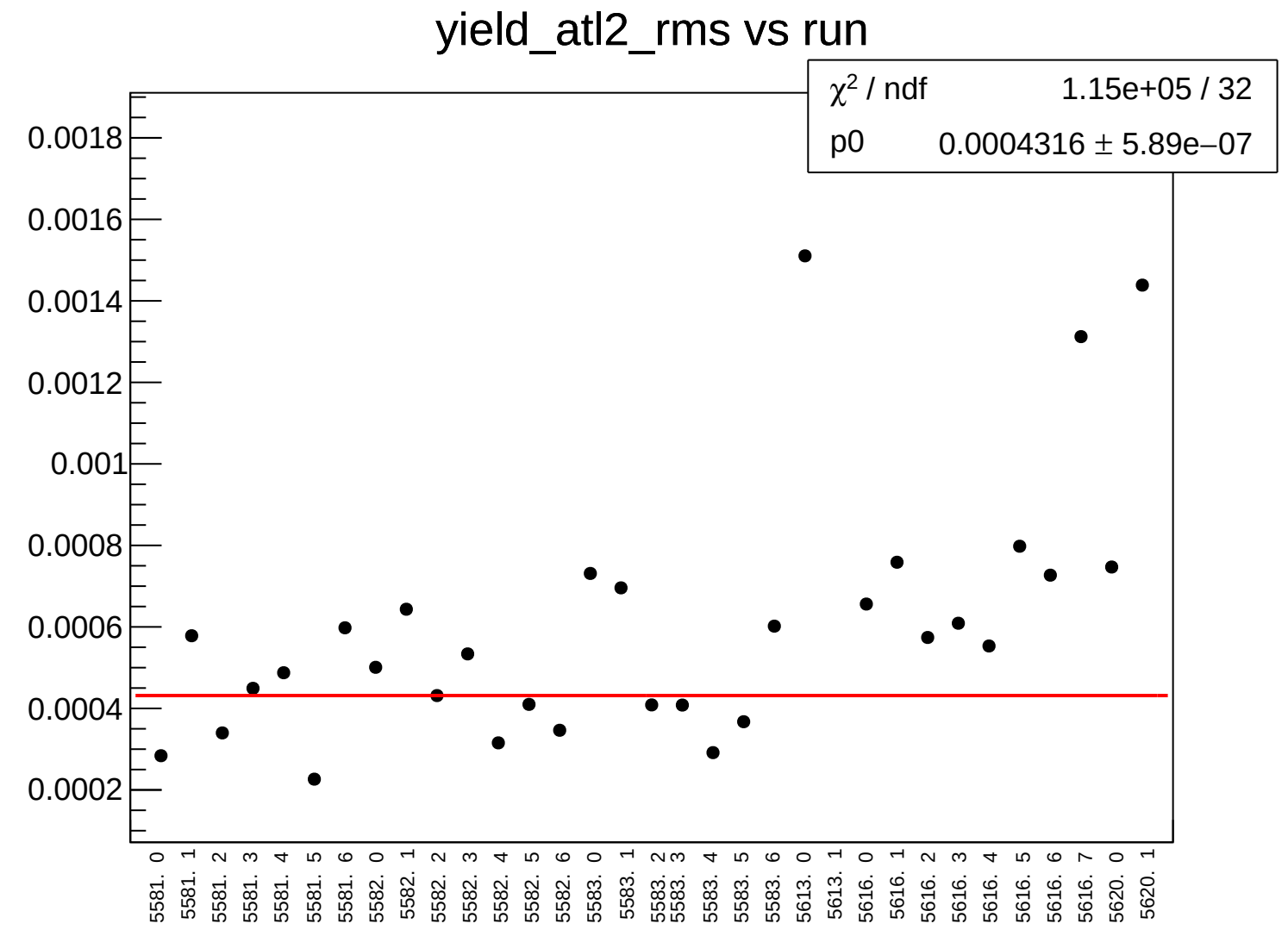

yield_atl1_mean vs run
χ² / ndf 7.78e+05 / 32
p0 0.0116 ± 1.145e−07
0.0119
0.01185
0.0118
0.01175
0.0117
0.01165
0.0116
0.01155
0.0115
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 51.4
Std Dev 0
300
250
200
150
100
50
0
−50
−100

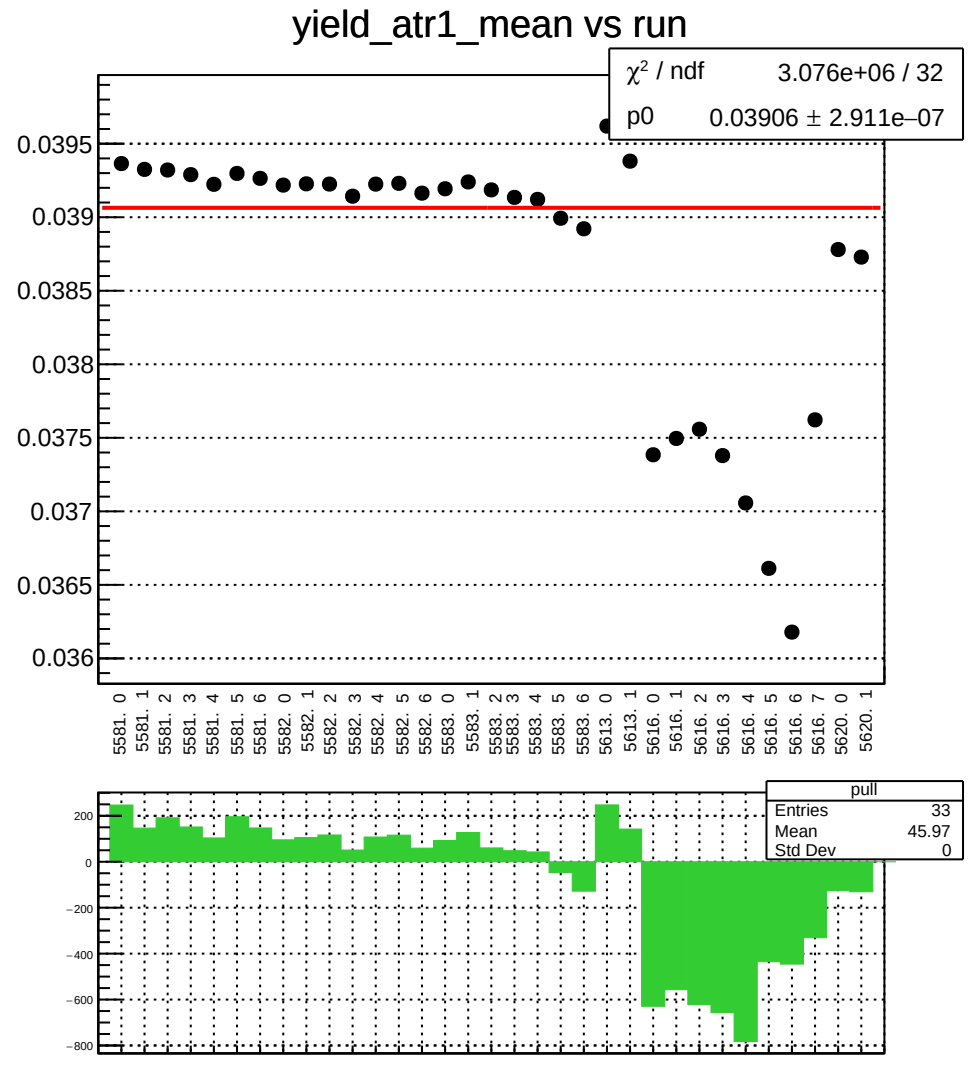

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

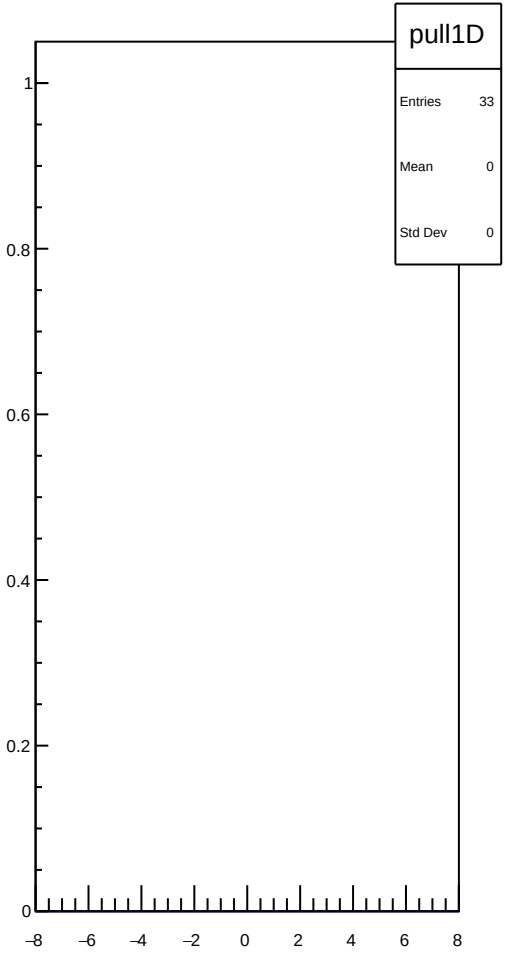

yield_atl1_rms vs run
×10⁻³
χ² / ndf 4.866e+04 / 32
p0 6.287e−05 ± 8.094e−08
0.12
0.1
0.08
0.06
0.04
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

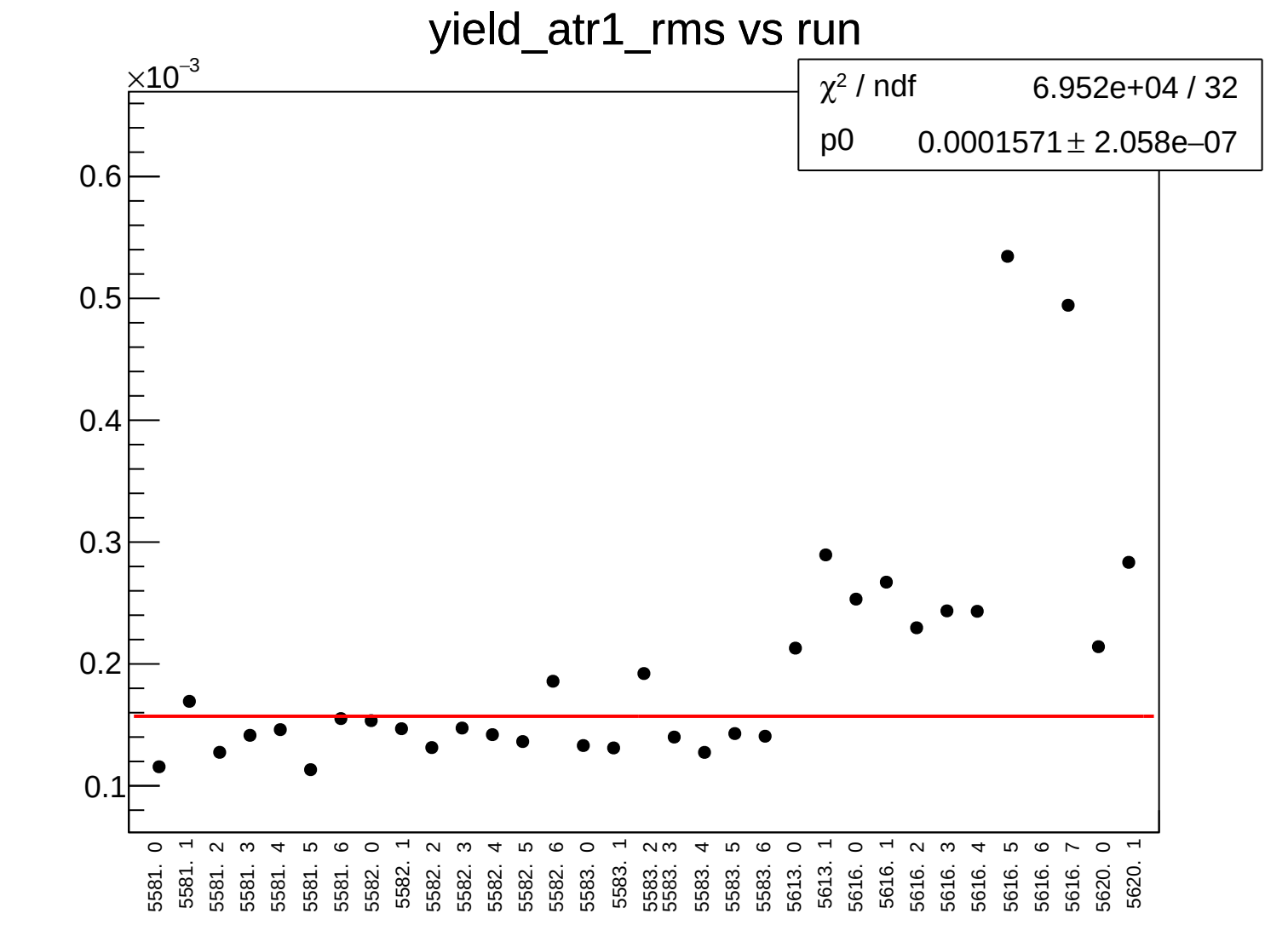

yield_atl2_mean vs run
χ² / ndf 2.874e+07 / 32
p0 0.04828 ± 8.329e−07
0.062
0.06
0.058
0.056
0.054
0.052
0.05
0.048
0.046
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 47.82
Std Dev 0
2000
1500
1000
500
0
−500

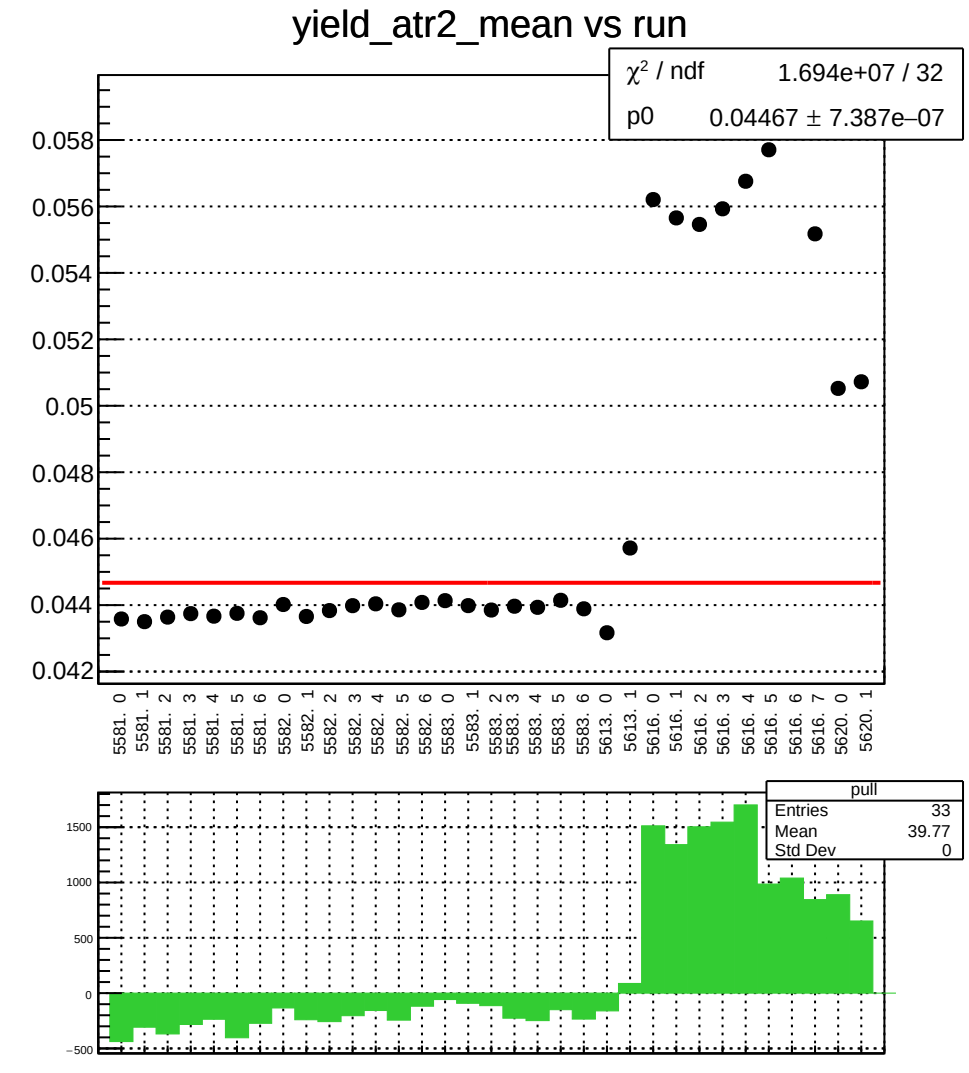

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

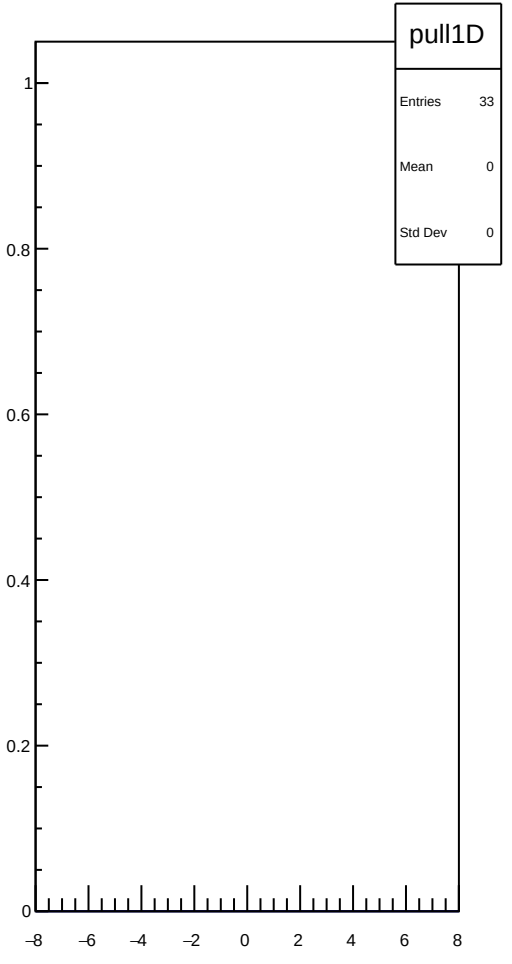

yield_atl2_rms vs run
χ² / ndf 1.15e+05 / 32
p0 0.0004316 ± 5.89e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

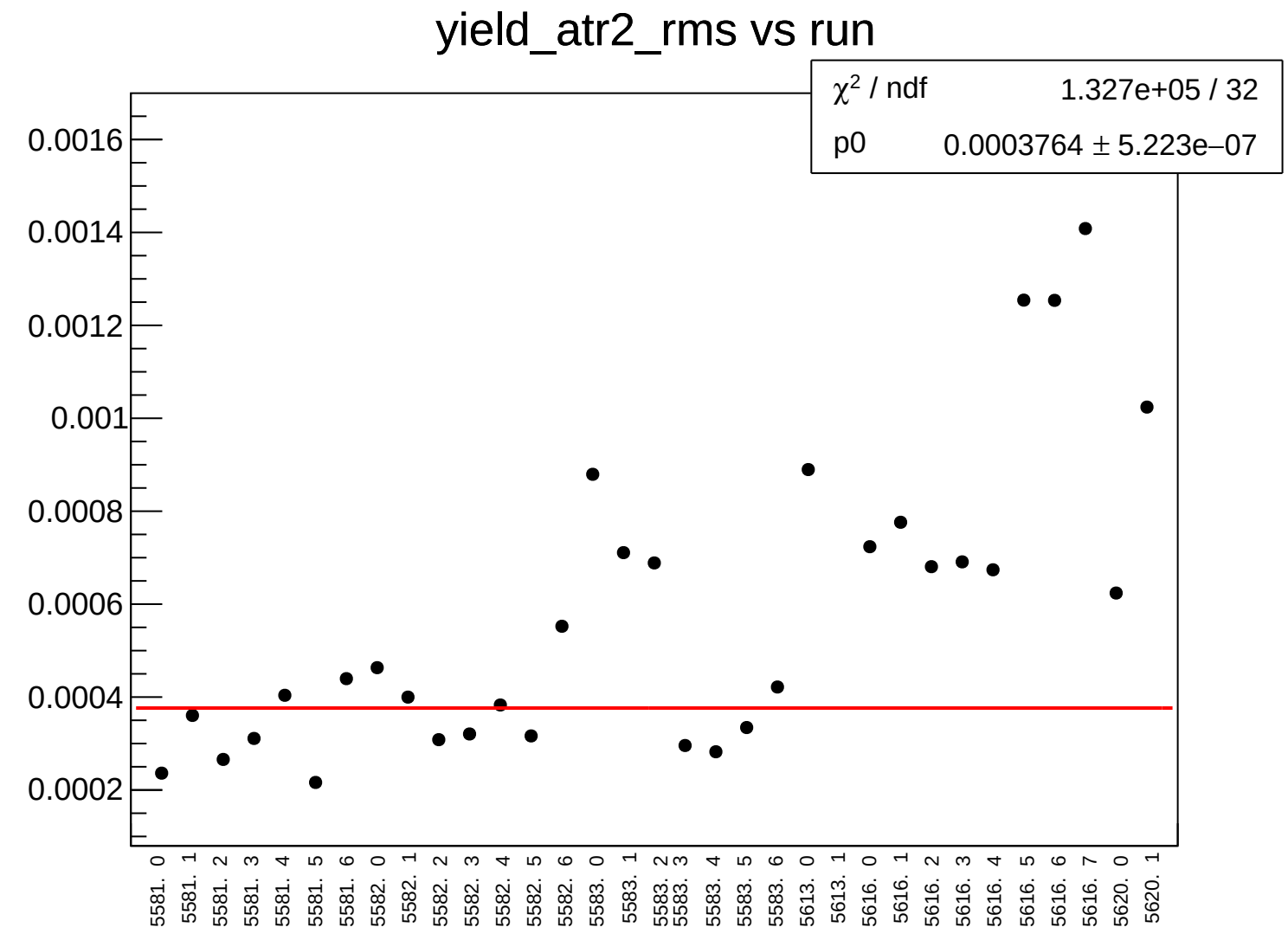

yield_atr1_mean vs run
χ² / ndf 3.076e+06 / 32
p0 0.03906 ± 2.911e−07
0.0395
0.039
0.0385
0.038
0.0375
0.037
0.0365
0.036
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 45.97
Std Dev 0
200
0
−200
−400
−600
−800

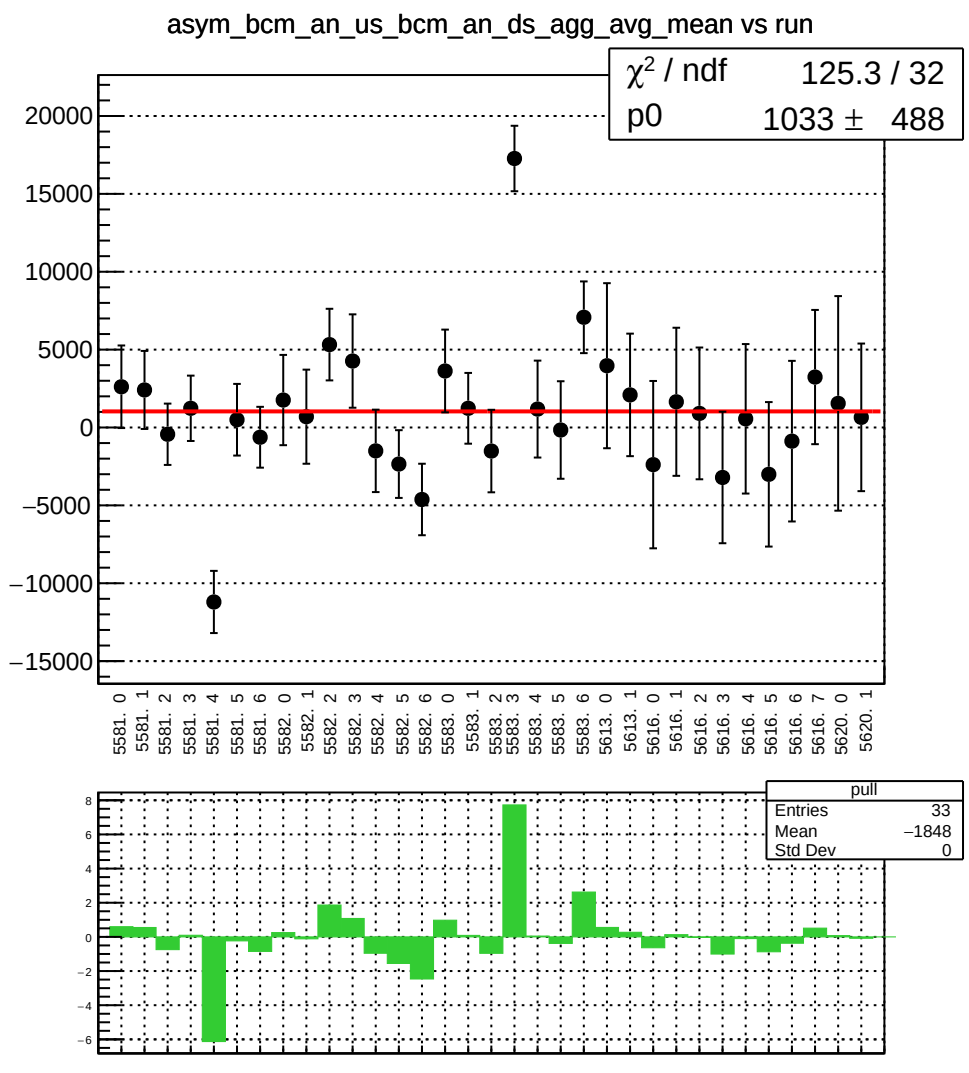

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

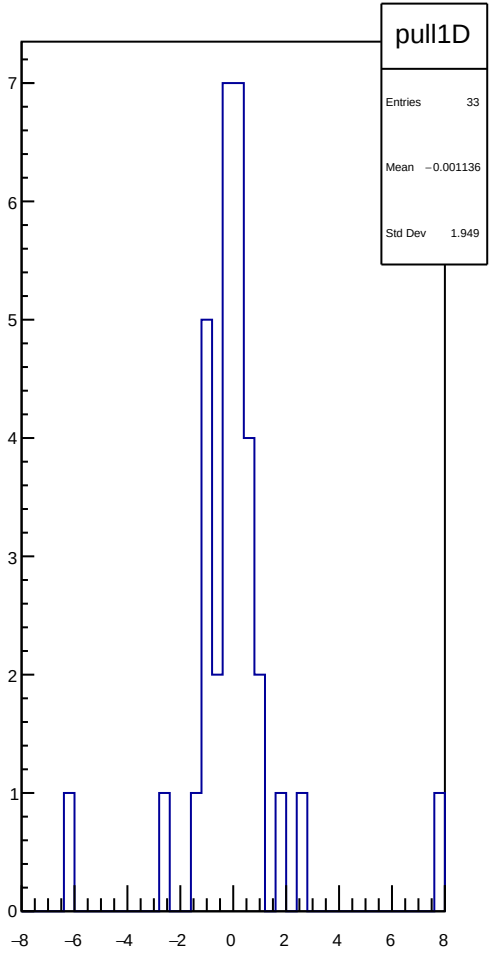

yield_atr1_rms vs run
×10⁻³
χ² / ndf 6.952e+04 / 32
p0 0.0001571 ± 2.058e−07
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

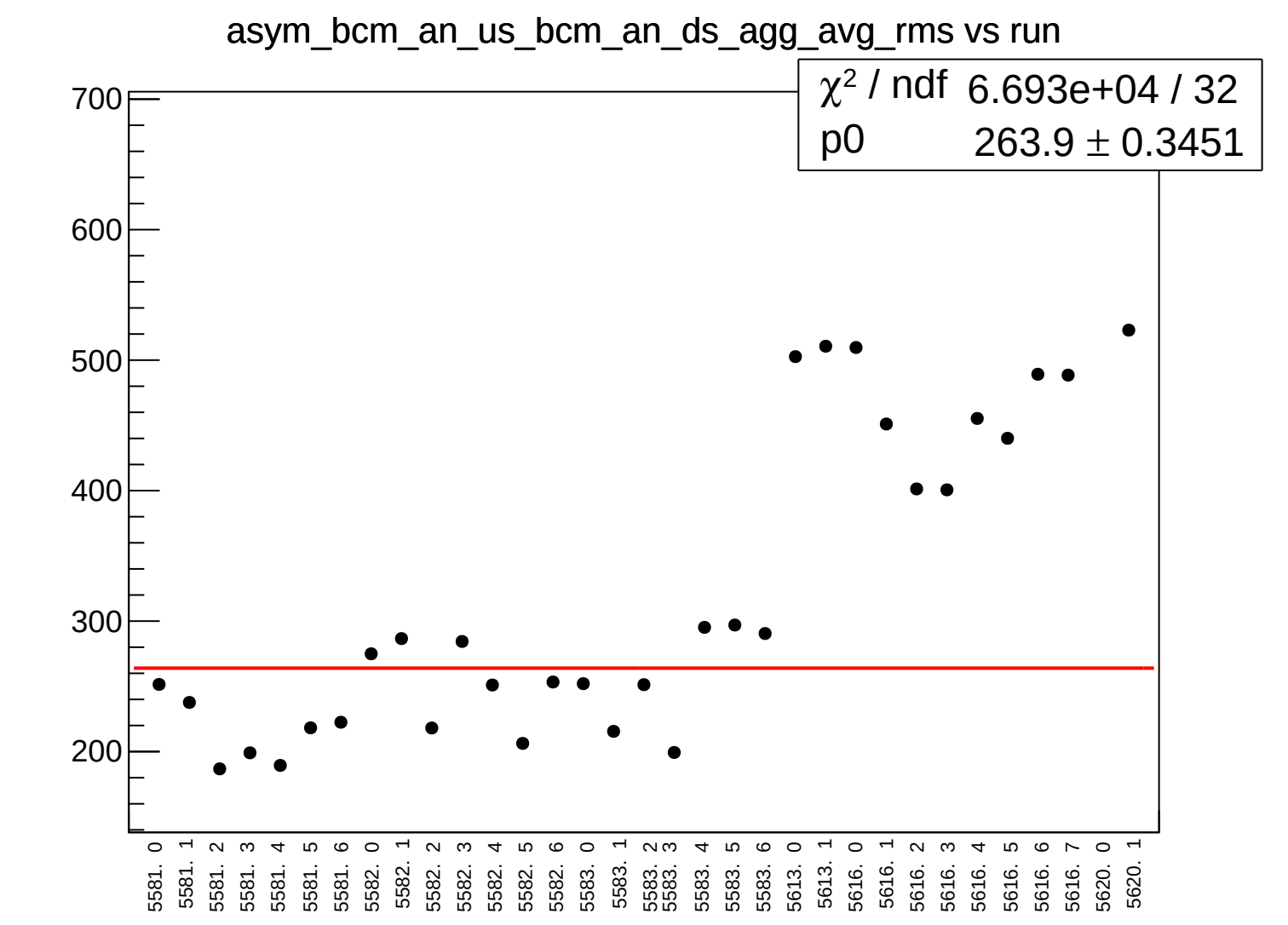

yield_atr2_mean vs run
χ² / ndf 1.694e+07 / 32
p0 0.04467 ± 7.387e−07
0.058
0.056
0.054
0.052
0.05
0.048
0.046
0.044
0.042
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.77
Std Dev 0
1500
1000
500
0
−500

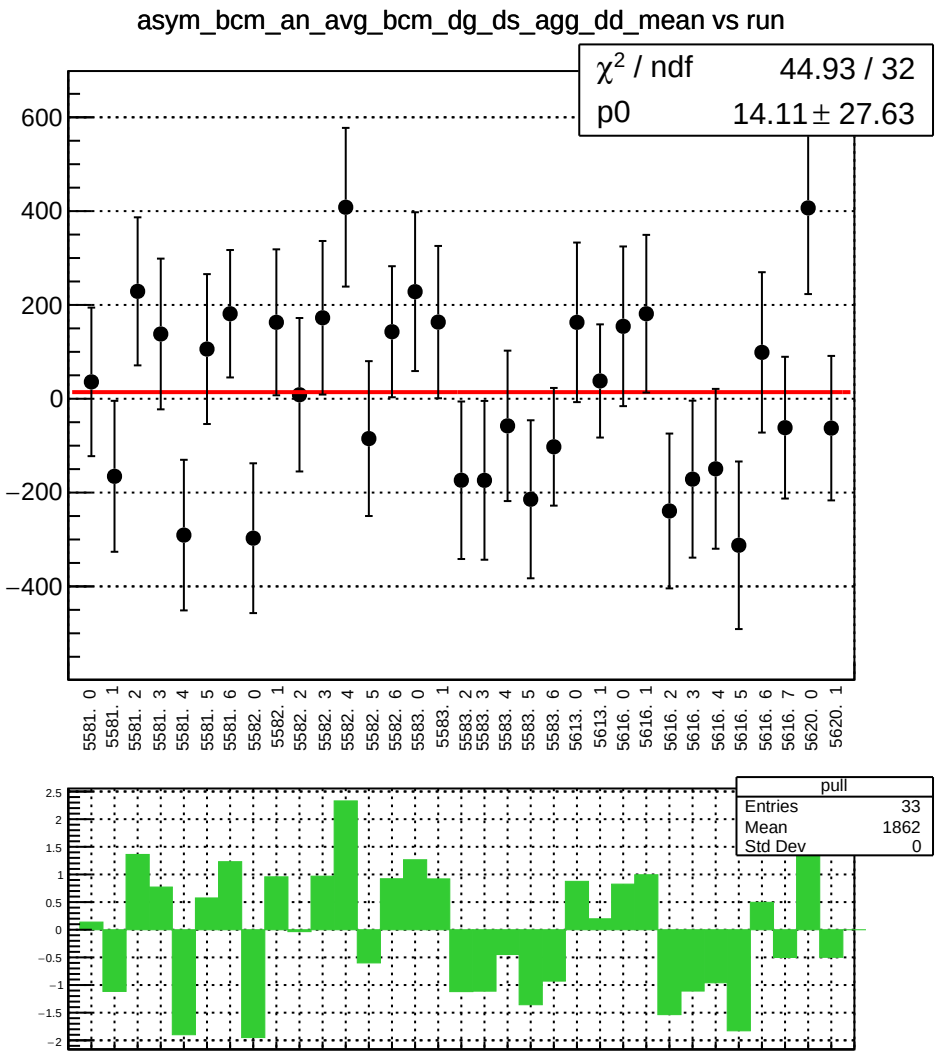

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

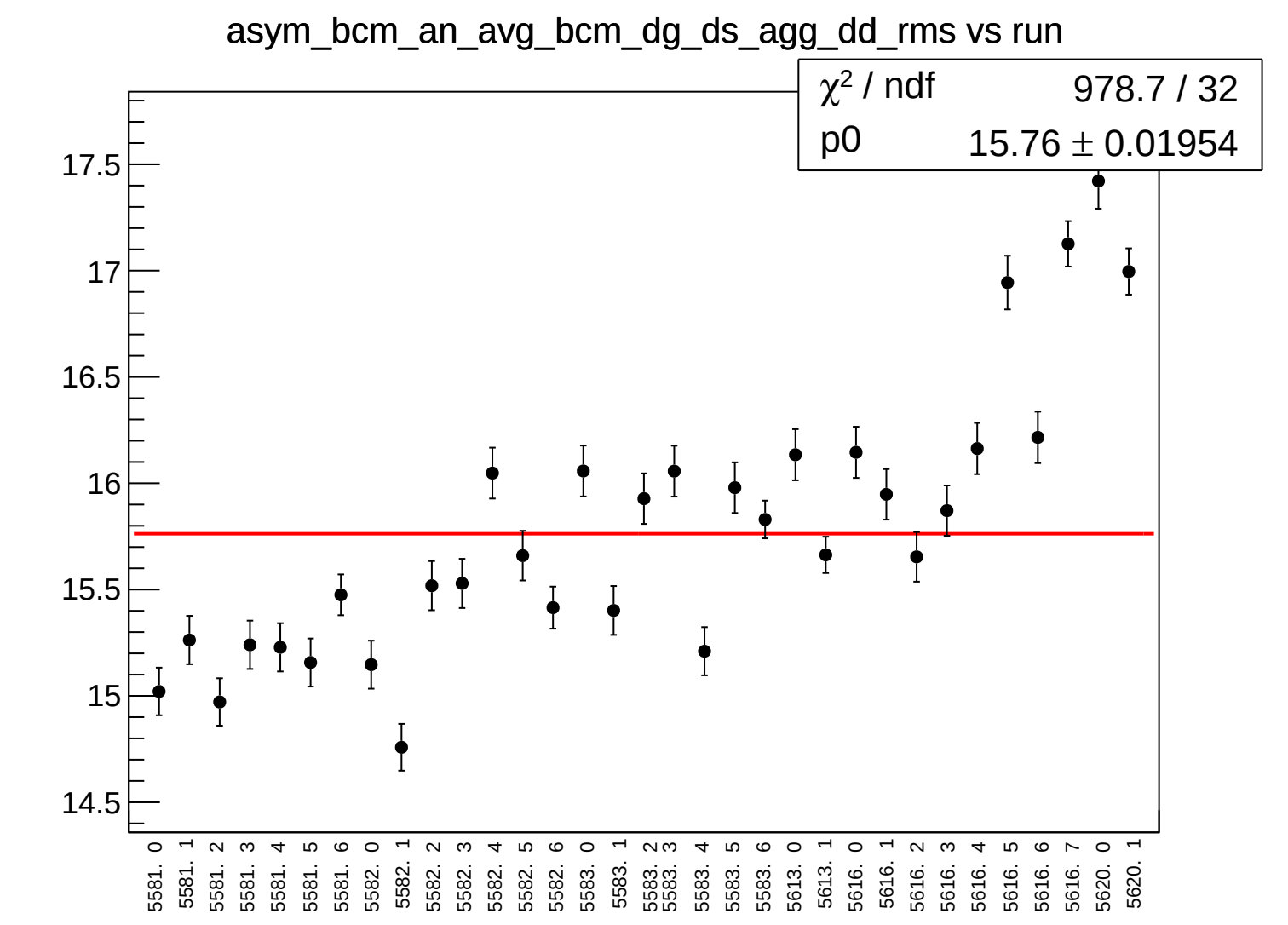

yield_atr2_rms vs run
χ² / ndf 1.327e+05 / 32
p0 0.0003764 ± 5.223e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

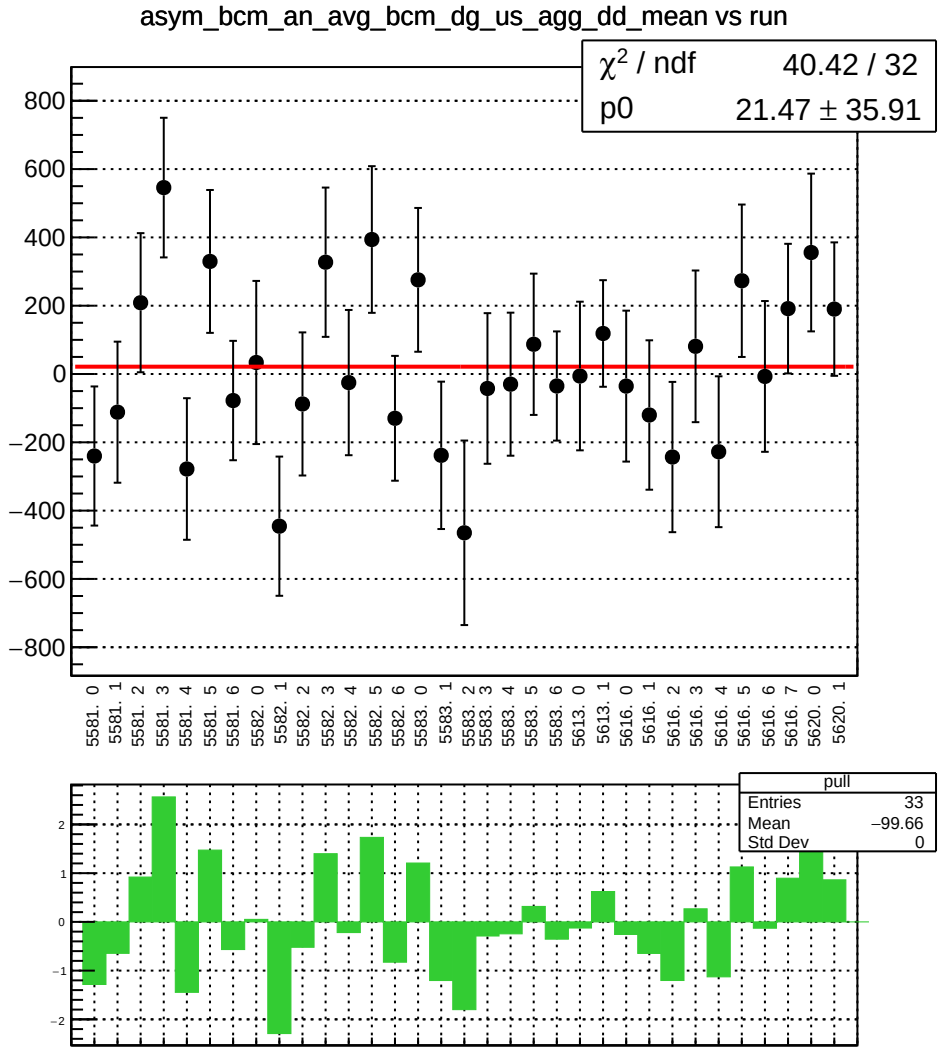

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 125.3 / 32
p0 1033 ± 488
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −1848
Std Dev 0
8
6
4
2
0
−2
−4
−6

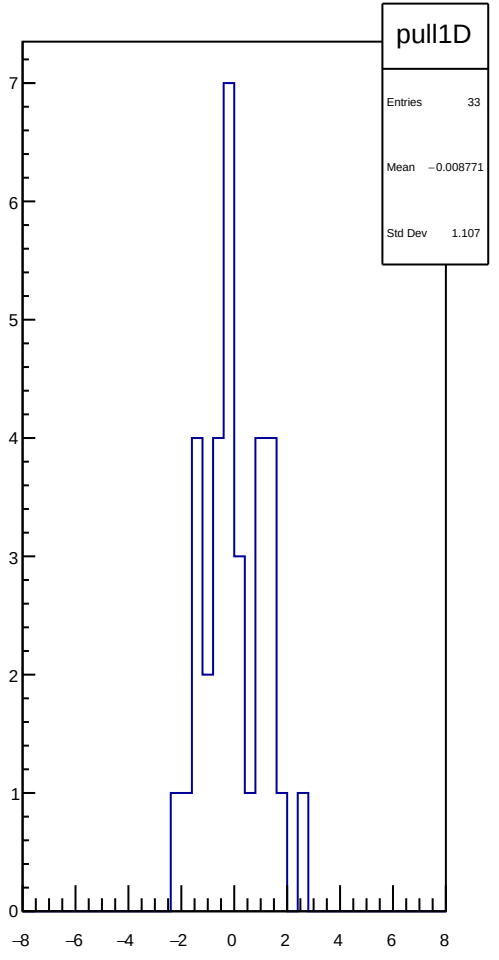

pull1D
Entries 33
Mean −0.001136
Std Dev 1.949
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

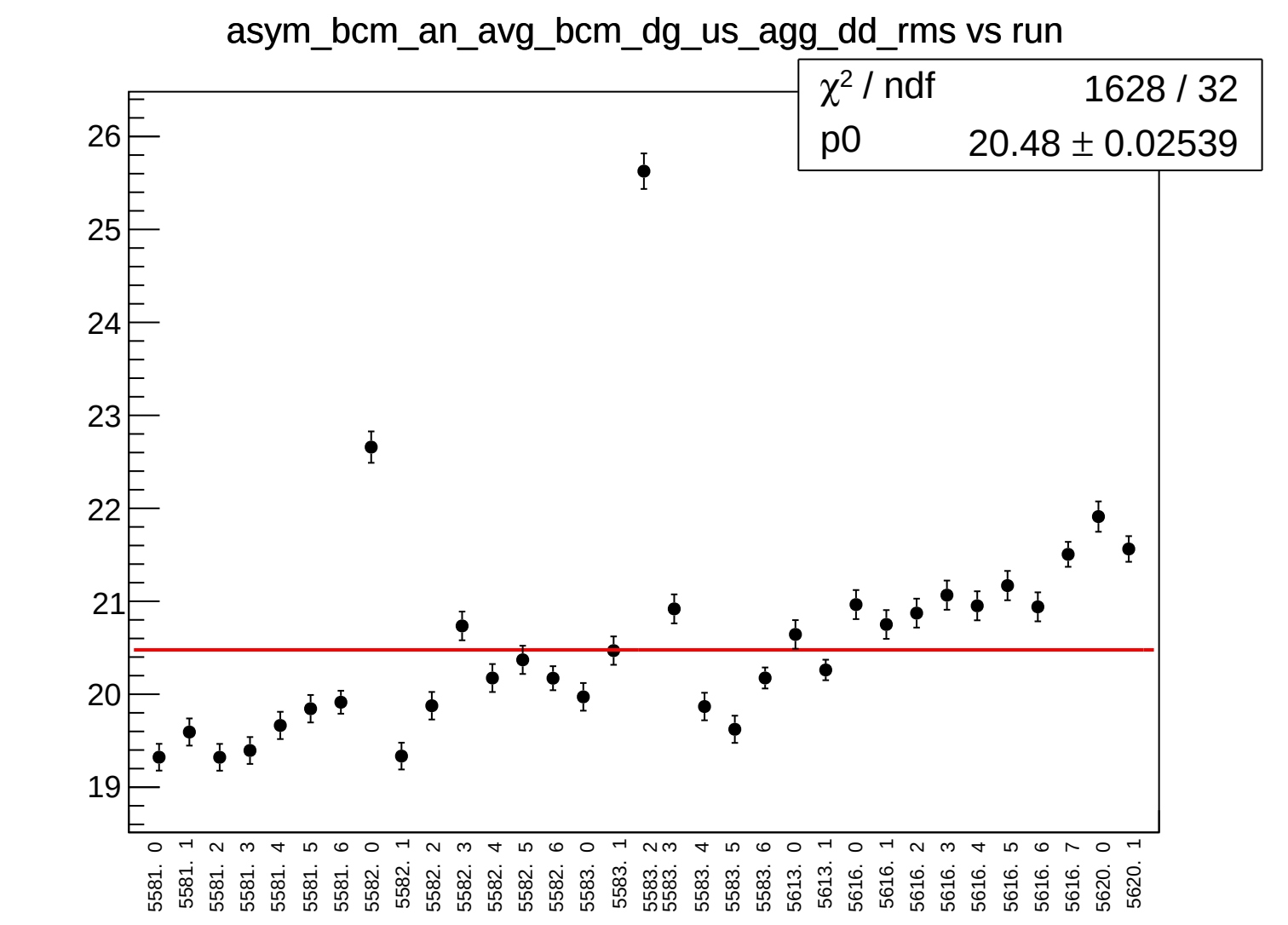

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6.693e+04 / 32
p0 263.9 ± 0.3451
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

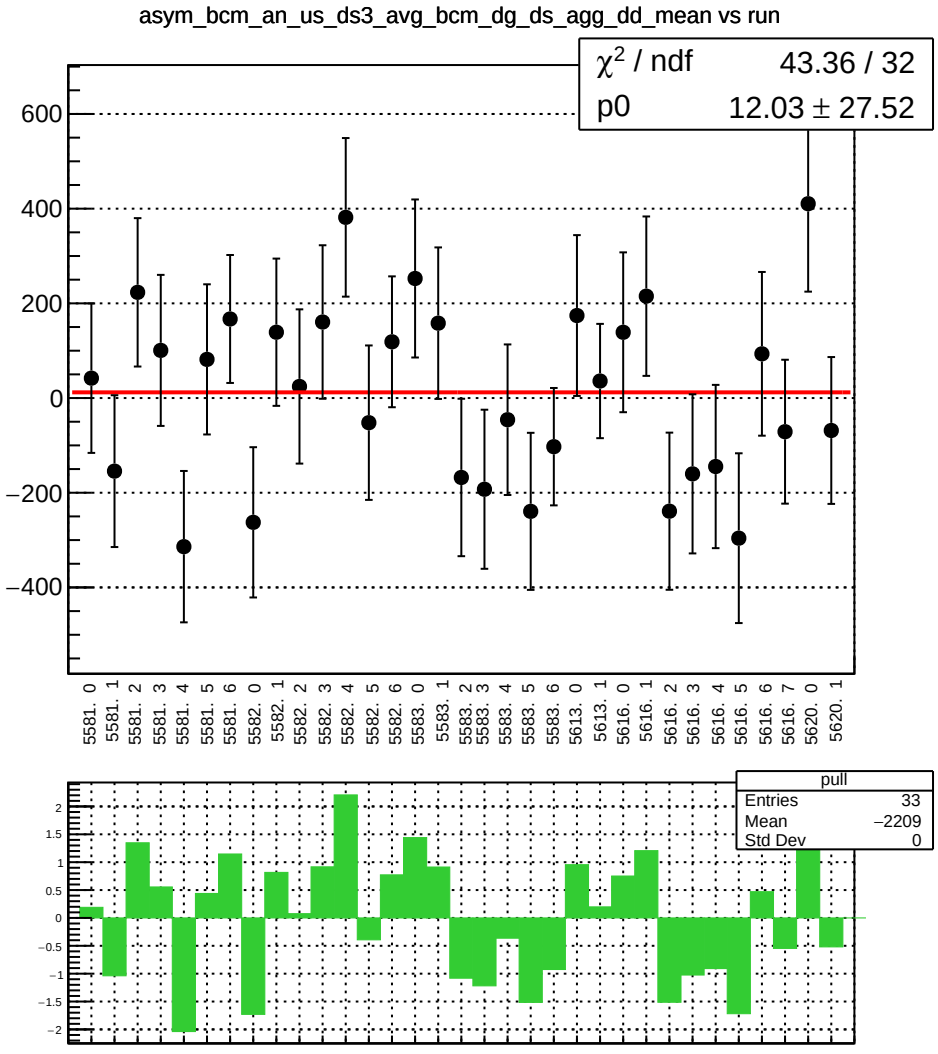

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 44.93 / 32
p0 14.11 ± 27.63
600
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 1862
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.0007542
Std Dev 1.167
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

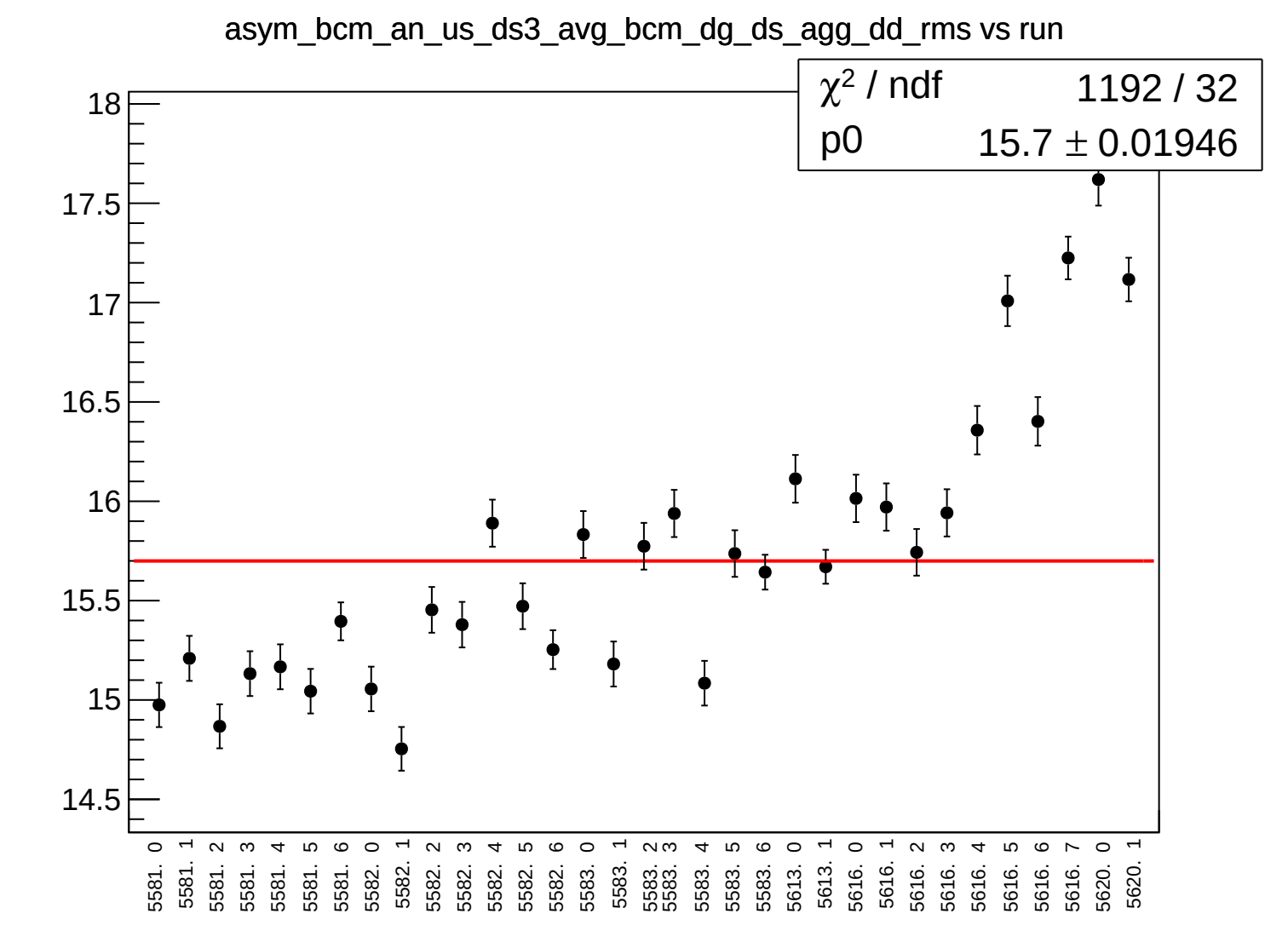

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 978.7 / 32
p0 15.76 ± 0.01954
17.5
17
16.5
16
15.5
15
14.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

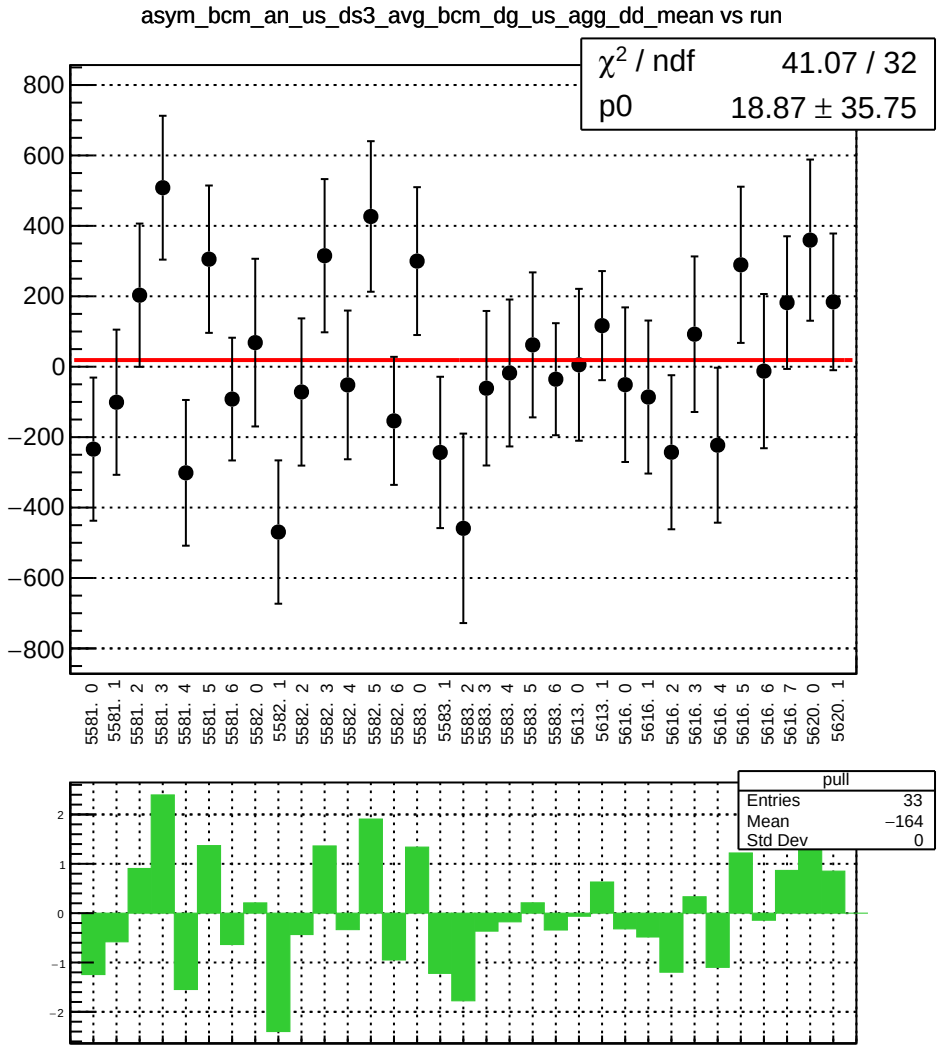

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 40.42 / 32
p0 21.47 ± 35.91
800
600
400
200
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −99.66
Std Dev 0
2
1
0
−1
−2

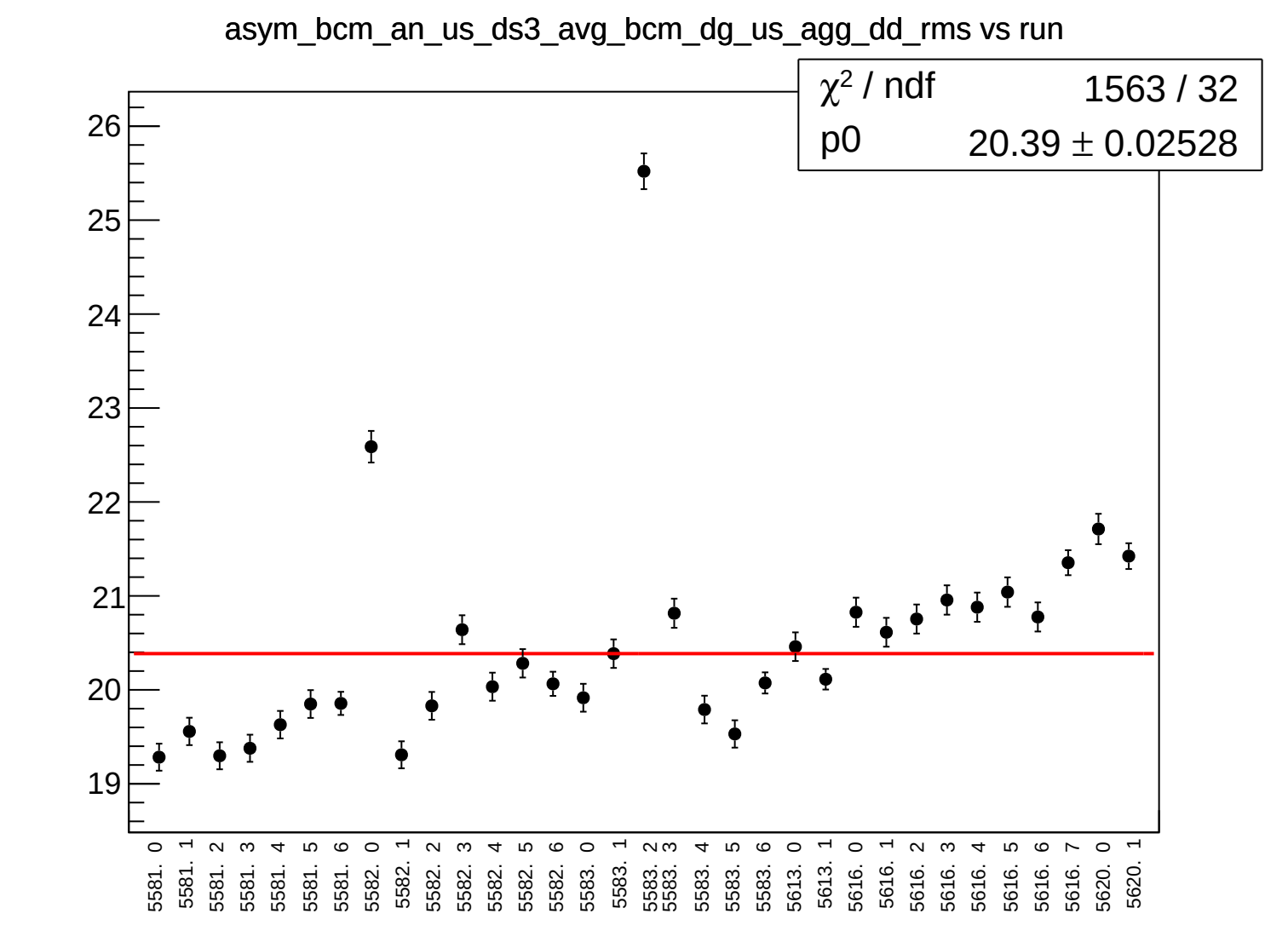

pull1D
Entries 33
Mean −0.008771
Std Dev 1.107
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

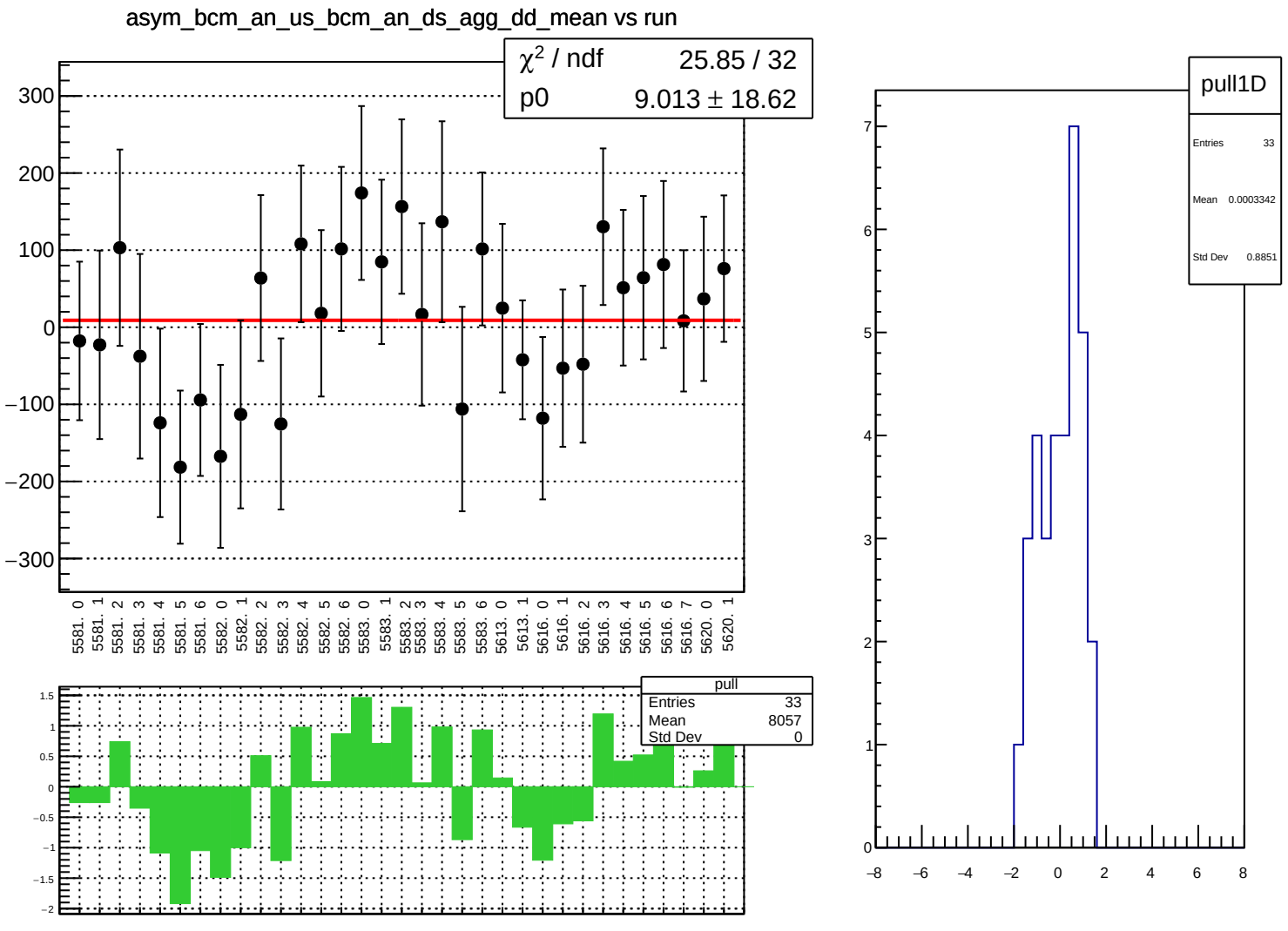

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1628 / 32
p0 20.48 ± 0.02539
26
25
24
23
22
21
20
19
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

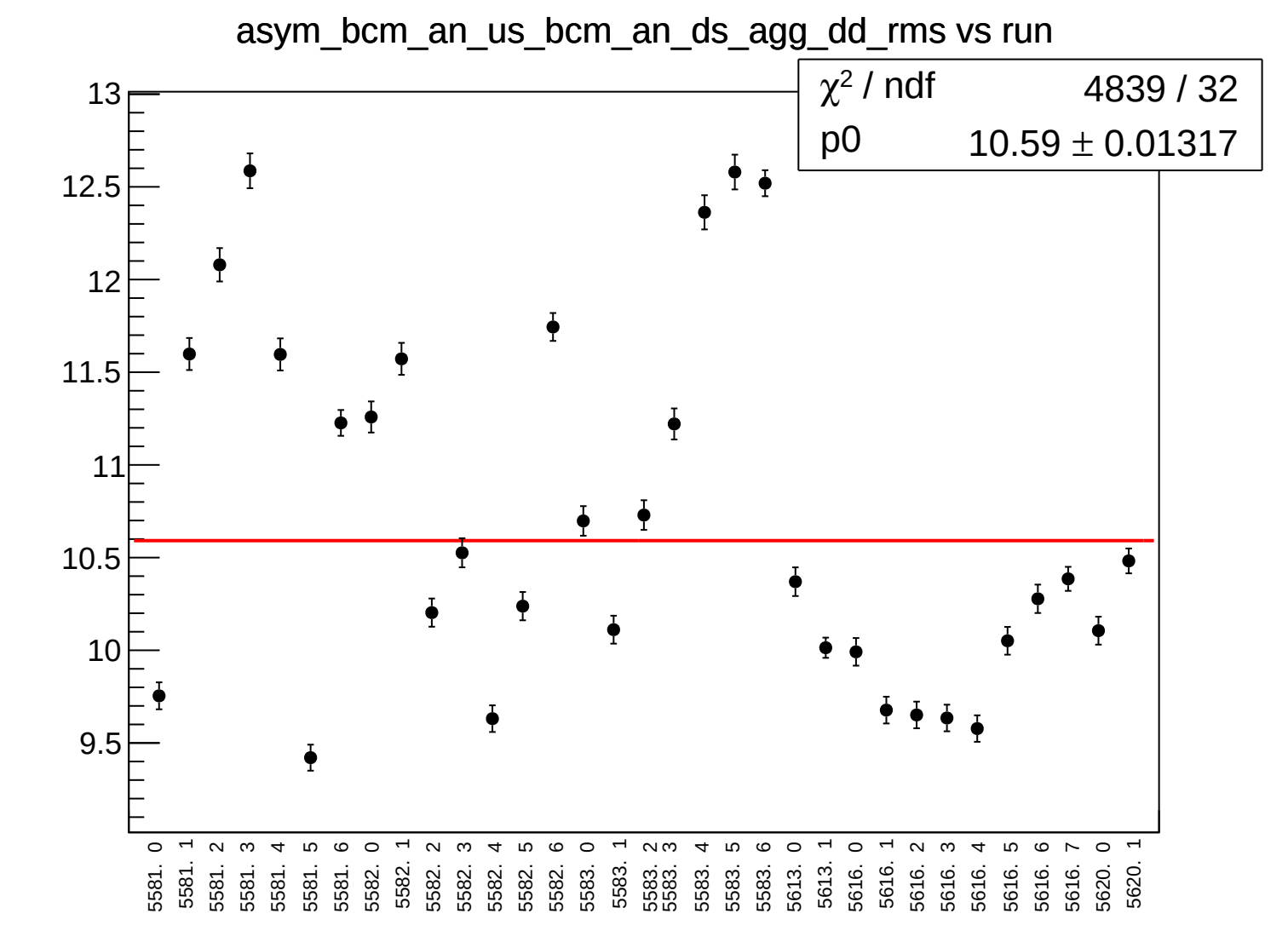

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 43.36 / 32
p0 12.03 ± 27.52
600
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2209
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.0005366
Std Dev 1.146
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

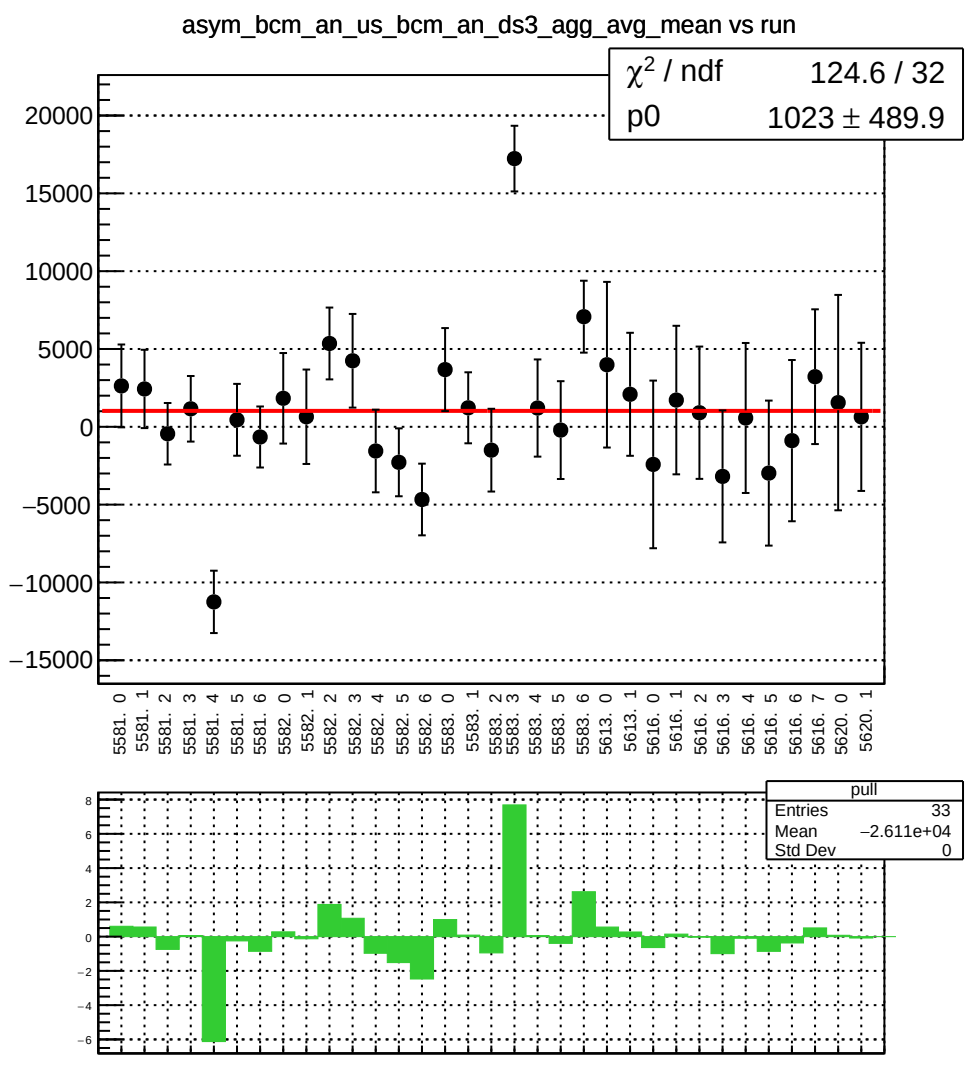

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1192 / 32
p0 15.7 ± 0.01946
18
17.5
17
16.5
16
15.5
15
14.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

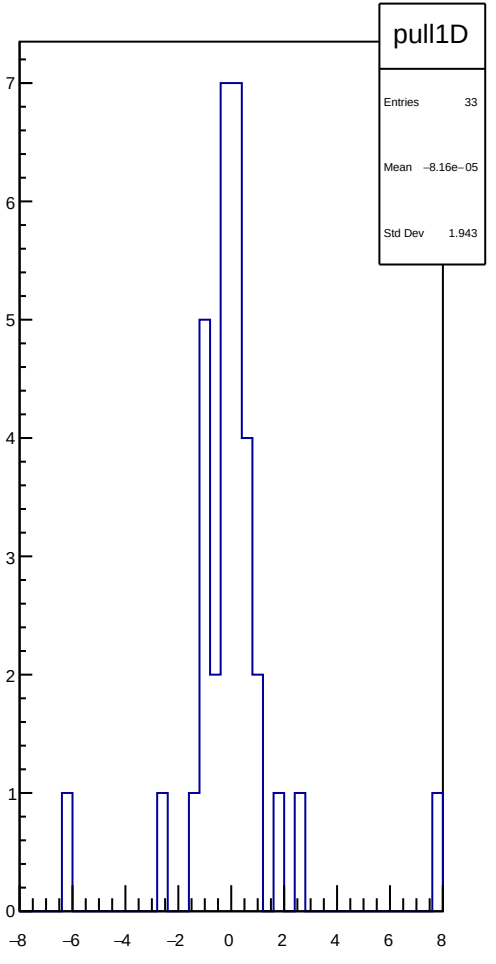

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 41.07 / 32
p0 18.87 ± 35.75
pull
Entries 33
Mean −164
Std Dev 0
pull1D
Entries 33
Mean −0.006638
Std Dev 1.116

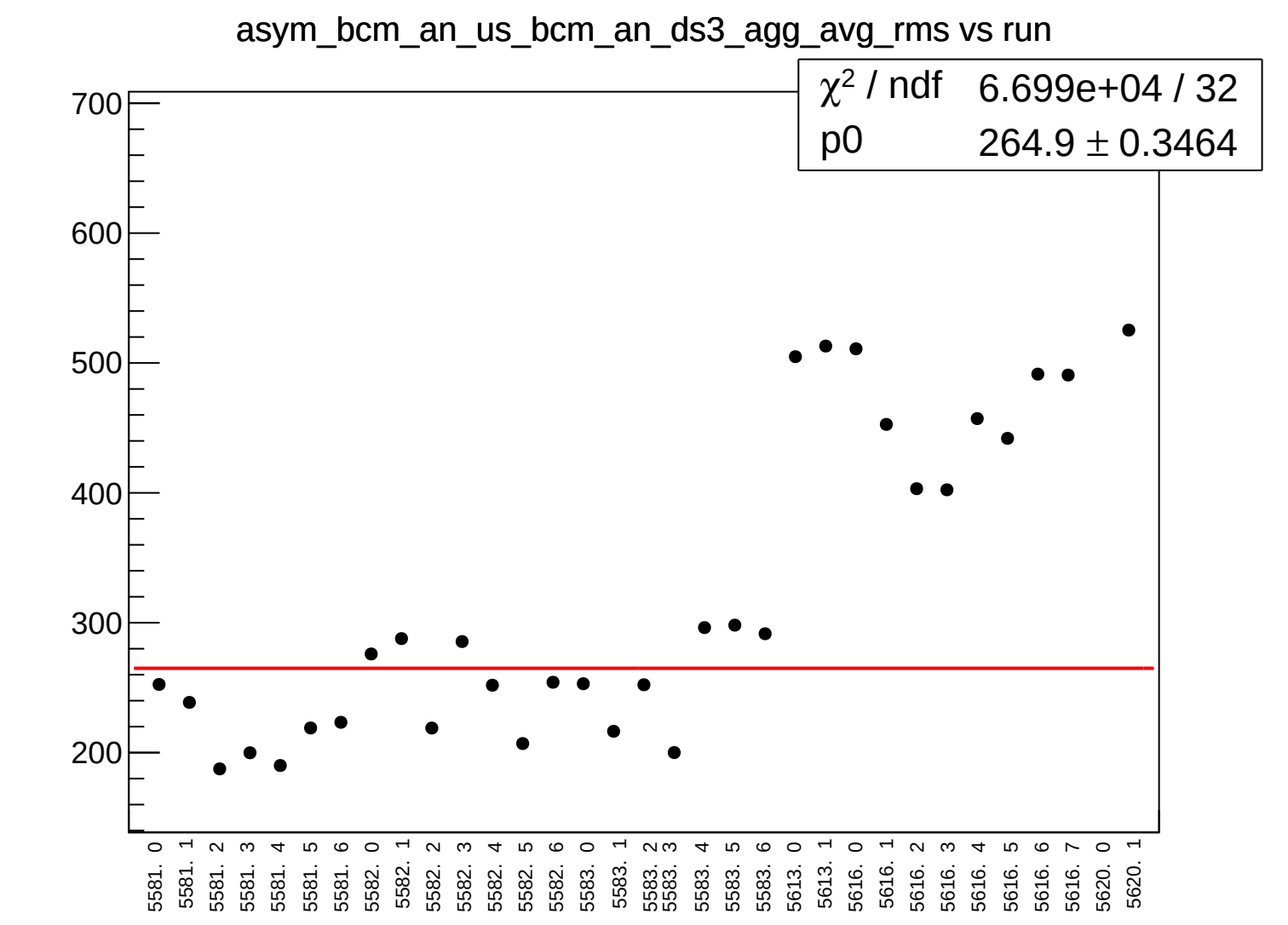

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1563 / 32
p0 20.39 ± 0.02528
26
25
24
23
22
21
20
19
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

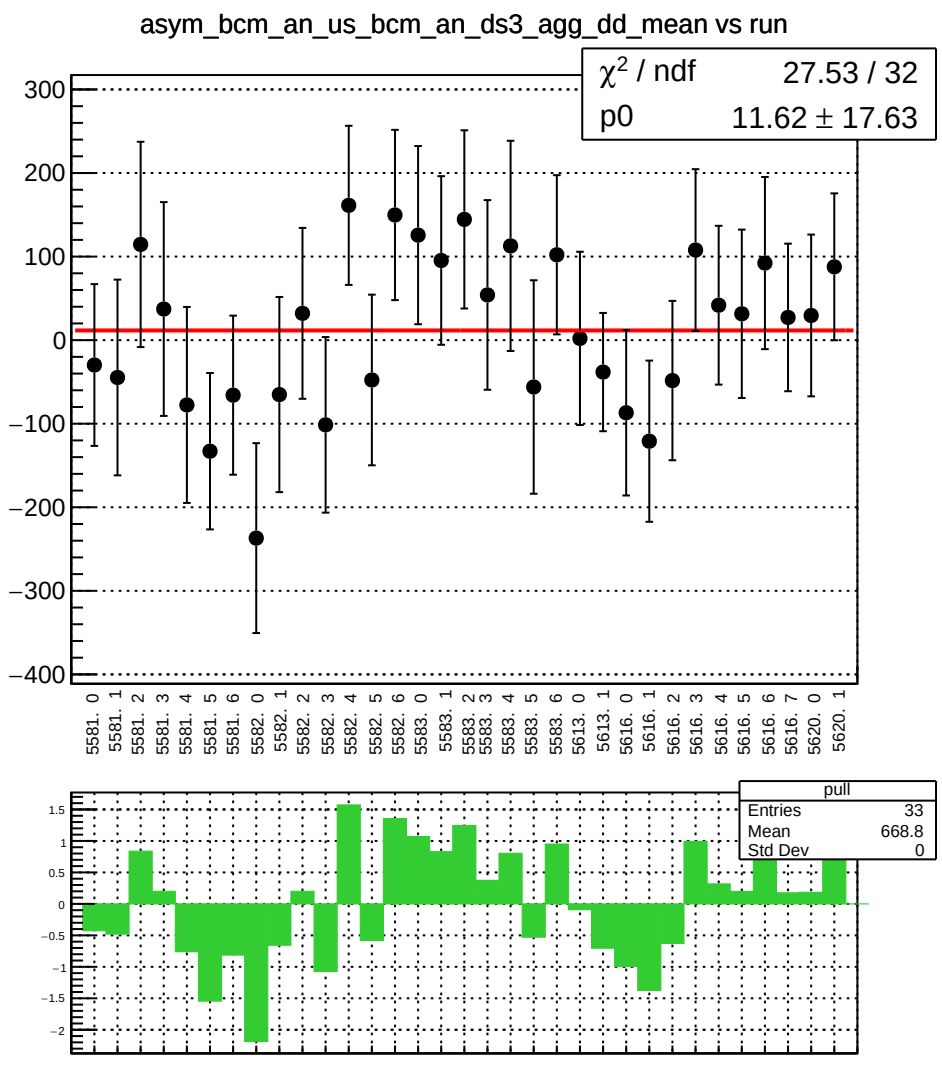

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 25.85 / 32
p0 9.013 ± 18.62
300
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 8057
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.0003342
Std Dev 0.8851
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

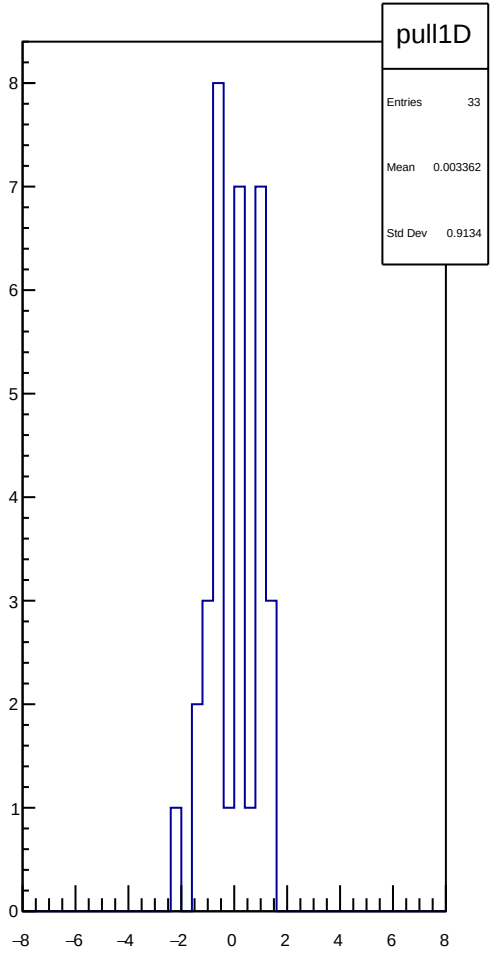

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4839 / 32
p0 10.59 ± 0.01317
13
12.5
12
11.5
11
10.5
10
9.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

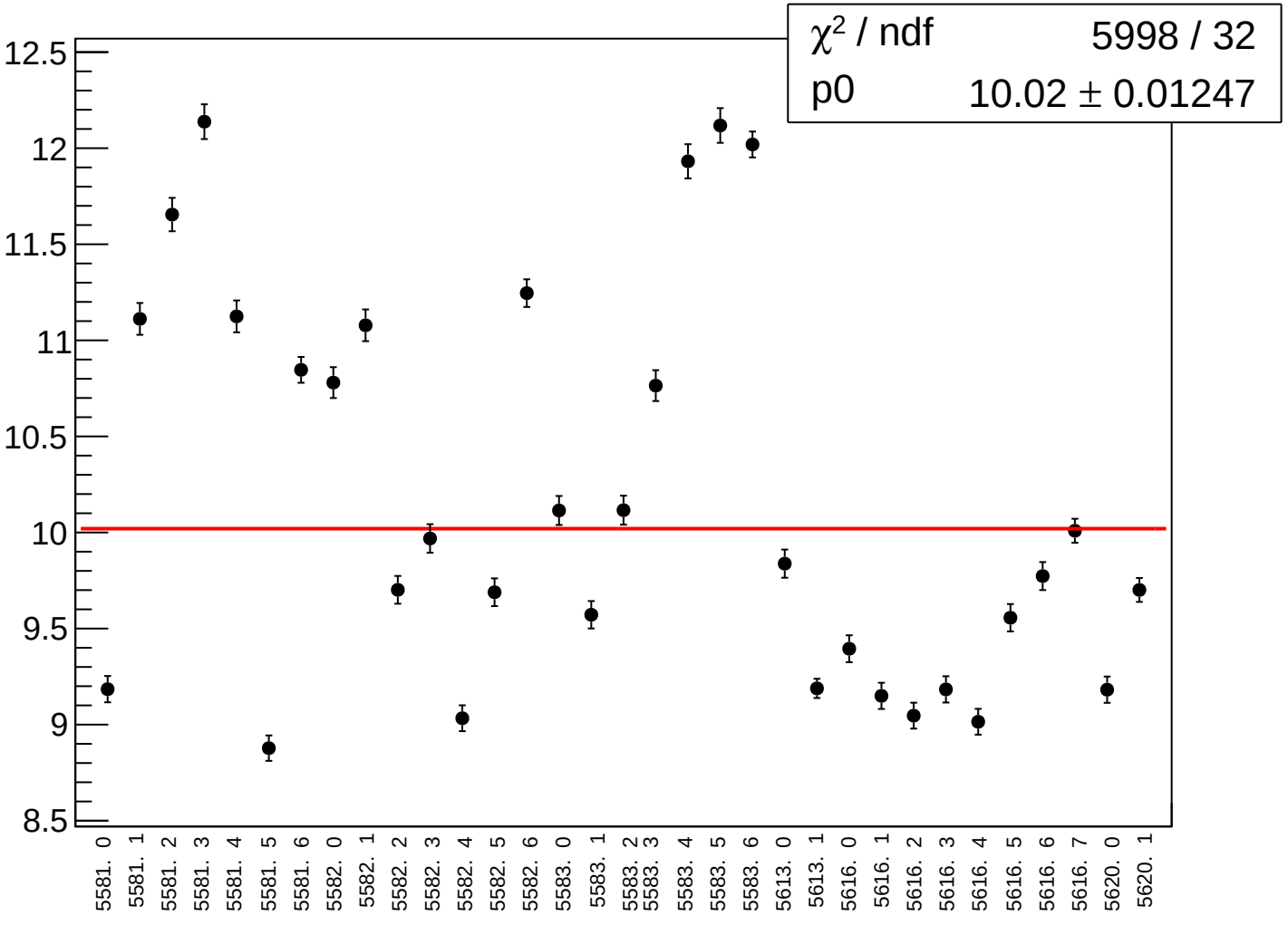

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 124.6 / 32
p0 1023 ± 489.9
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2.611e+04
Std Dev 0
8
6
4
2
0
−2
−4
−6

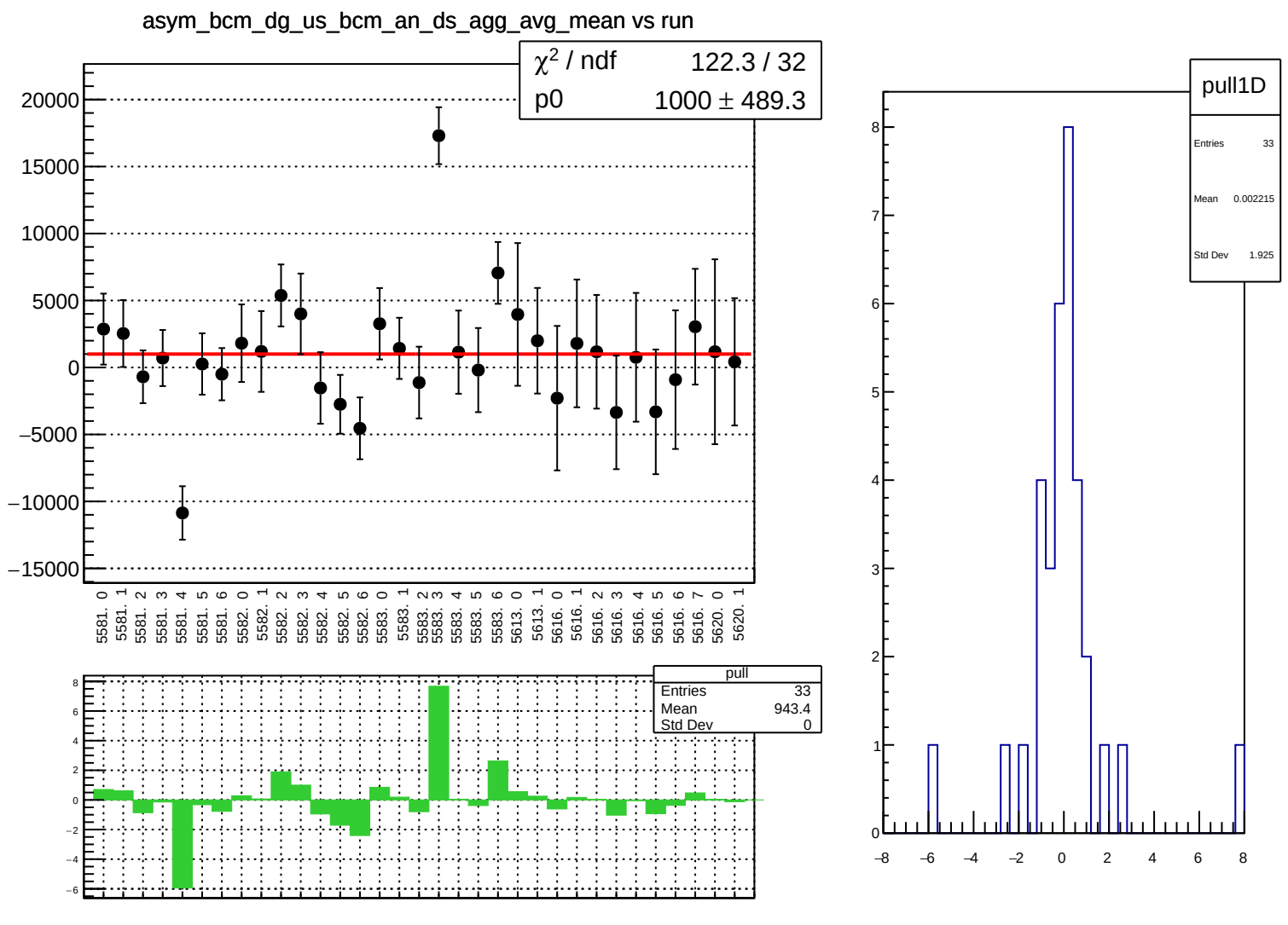

pull1D
Entries 33
Mean −8.16e−05
Std Dev 1.943
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

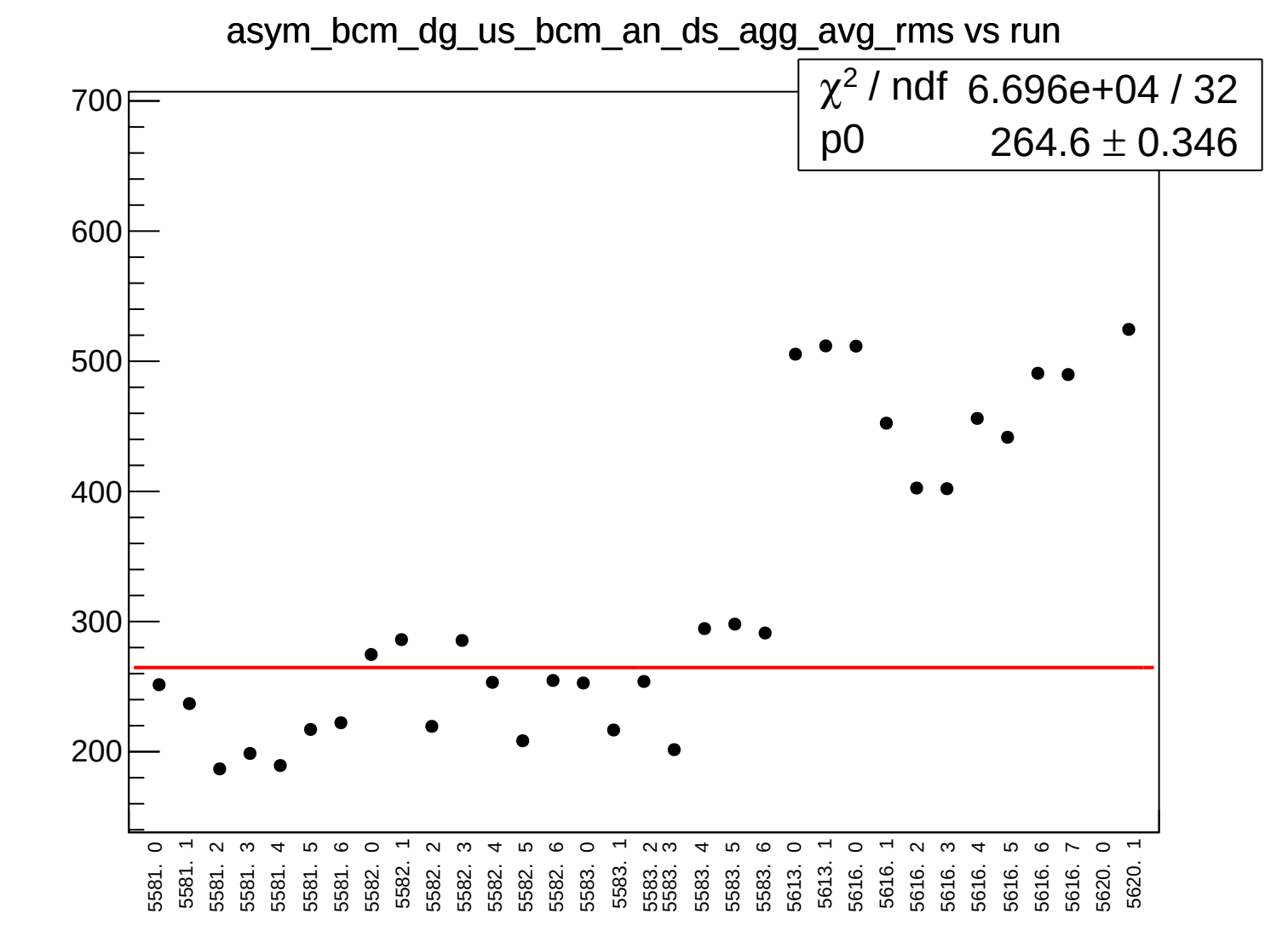

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 6.699e+04 / 32
p0 264.9 ± 0.3464
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

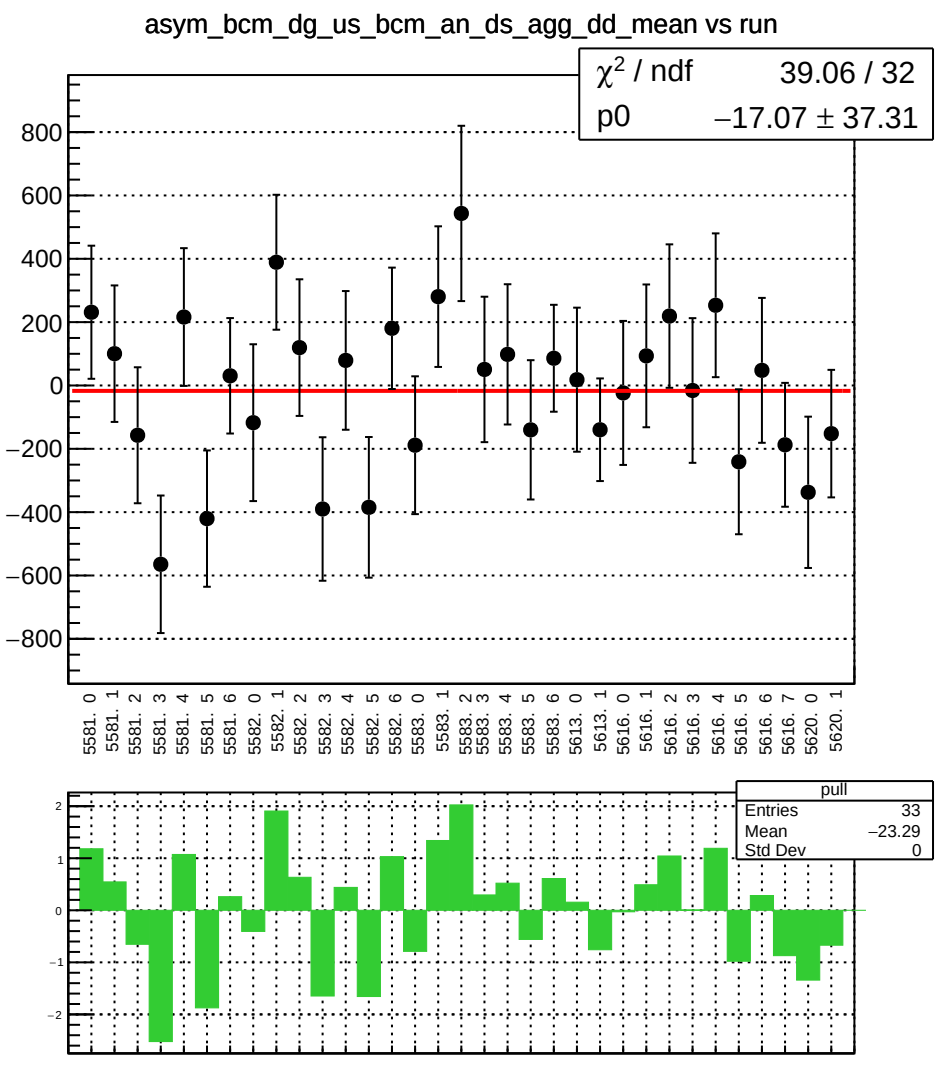

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 27.53 / 32
p0 11.62 ± 17.63
300
200
100
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 668.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

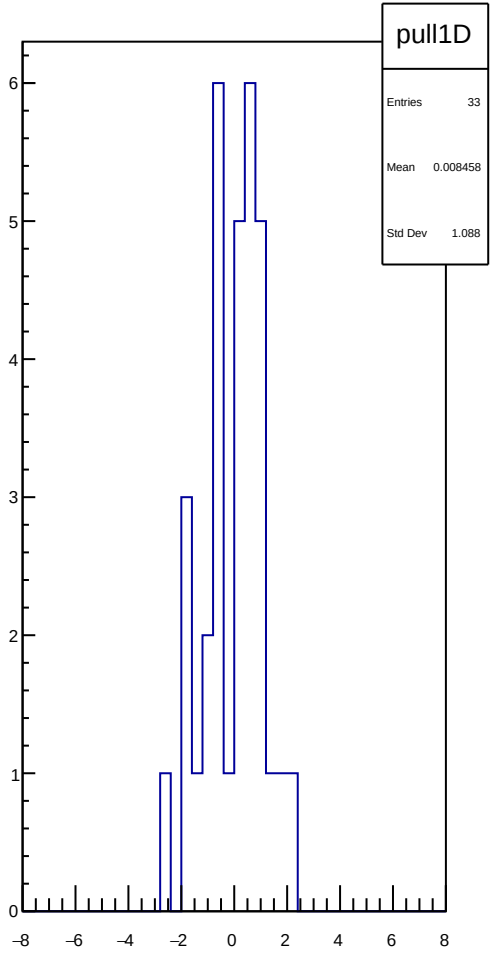

pull1D
Entries 33
Mean 0.003362
Std Dev 0.9134
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

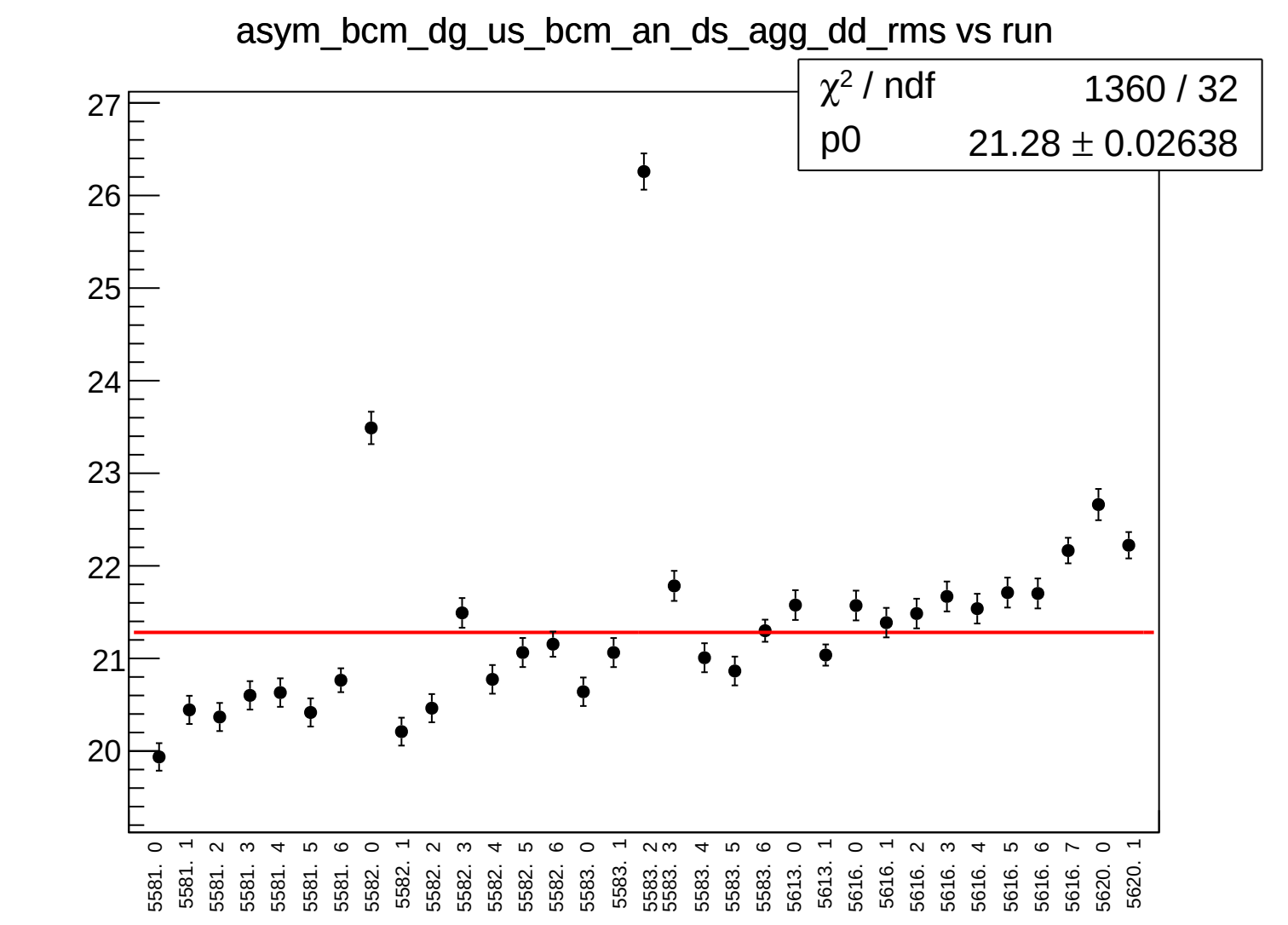

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 5998 / 32
p0 10.02 ± 0.01247
12.5
12
11.5
11
10.5
10
9.5
9
8.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

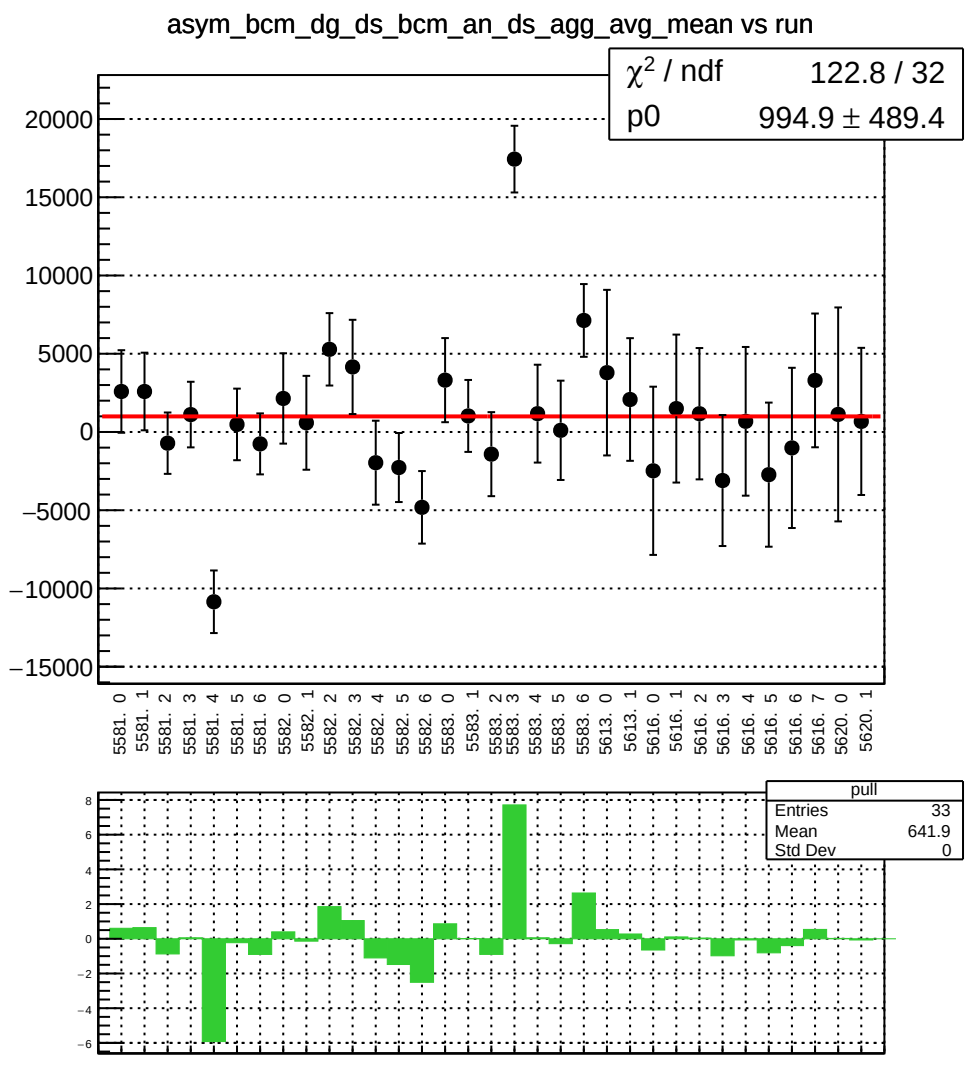

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 122.3 / 32
p0 1000 ± 489.3
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 943.4
Std Dev 0
8
6
4
2
0
−2
−4
−6
pull1D
Entries 33
Mean 0.002215
Std Dev 1.925
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

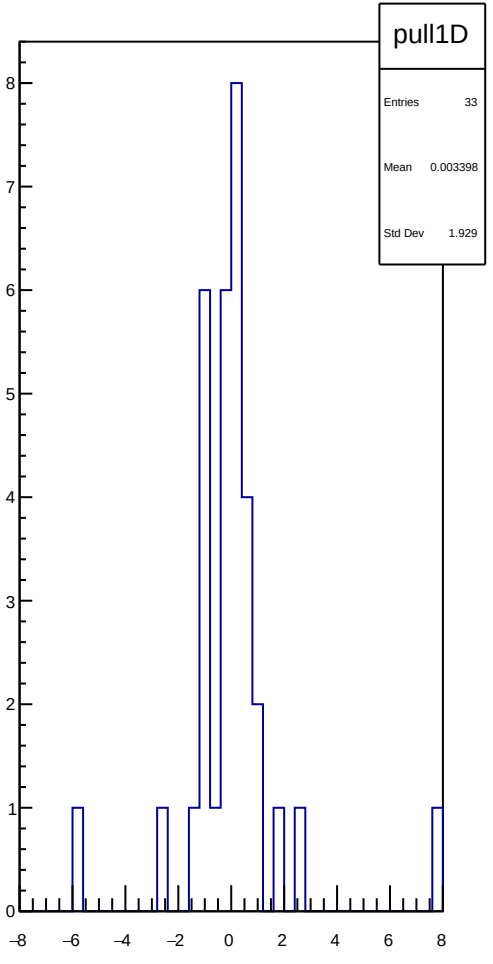

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6.696e+04 / 32
p0 264.6 ± 0.346
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

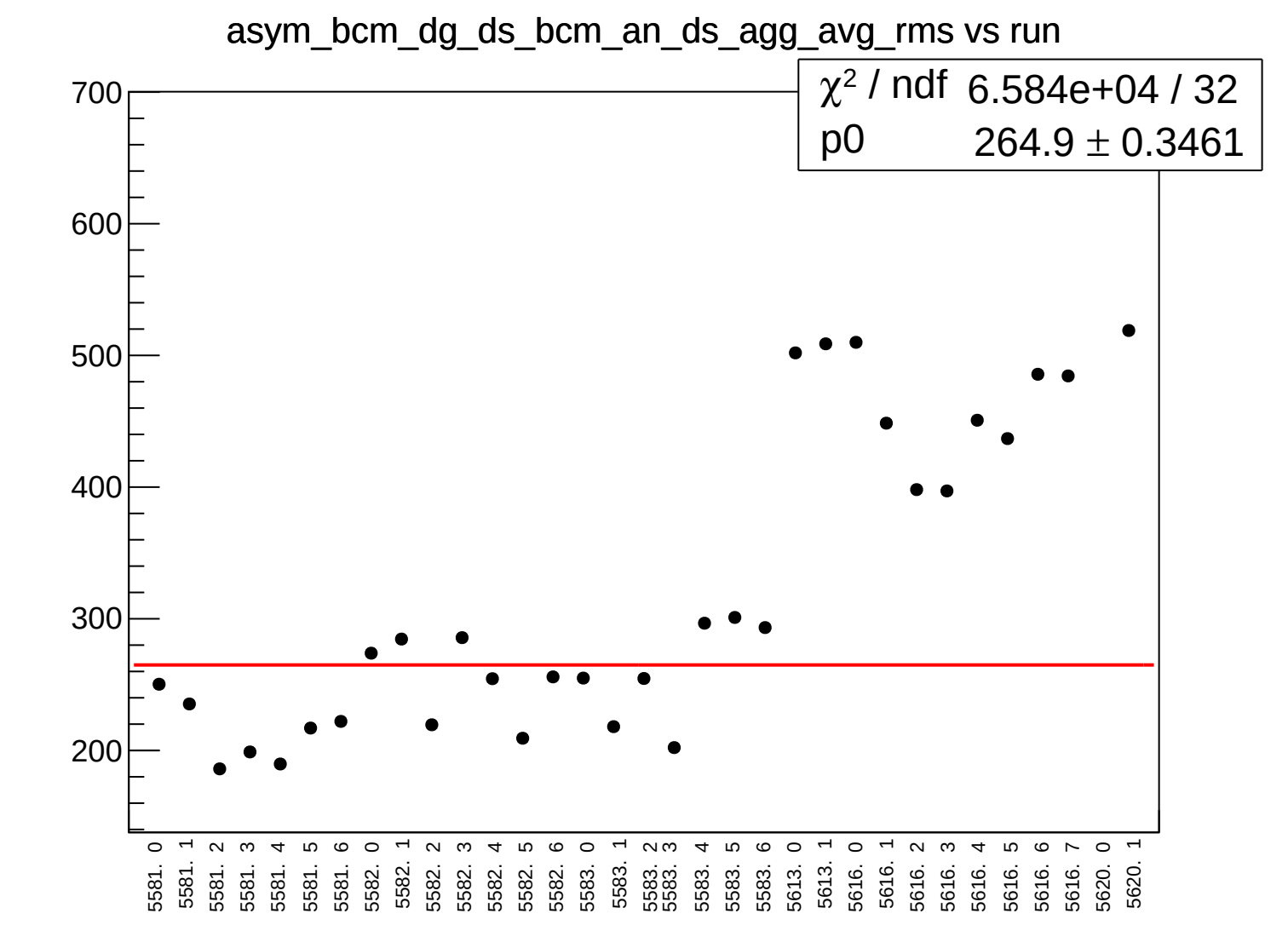

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 39.06 / 32
p0 −17.07 ± 37.31
800
600
400
200
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −23.29
Std Dev 0
2
1
0
−1
−2

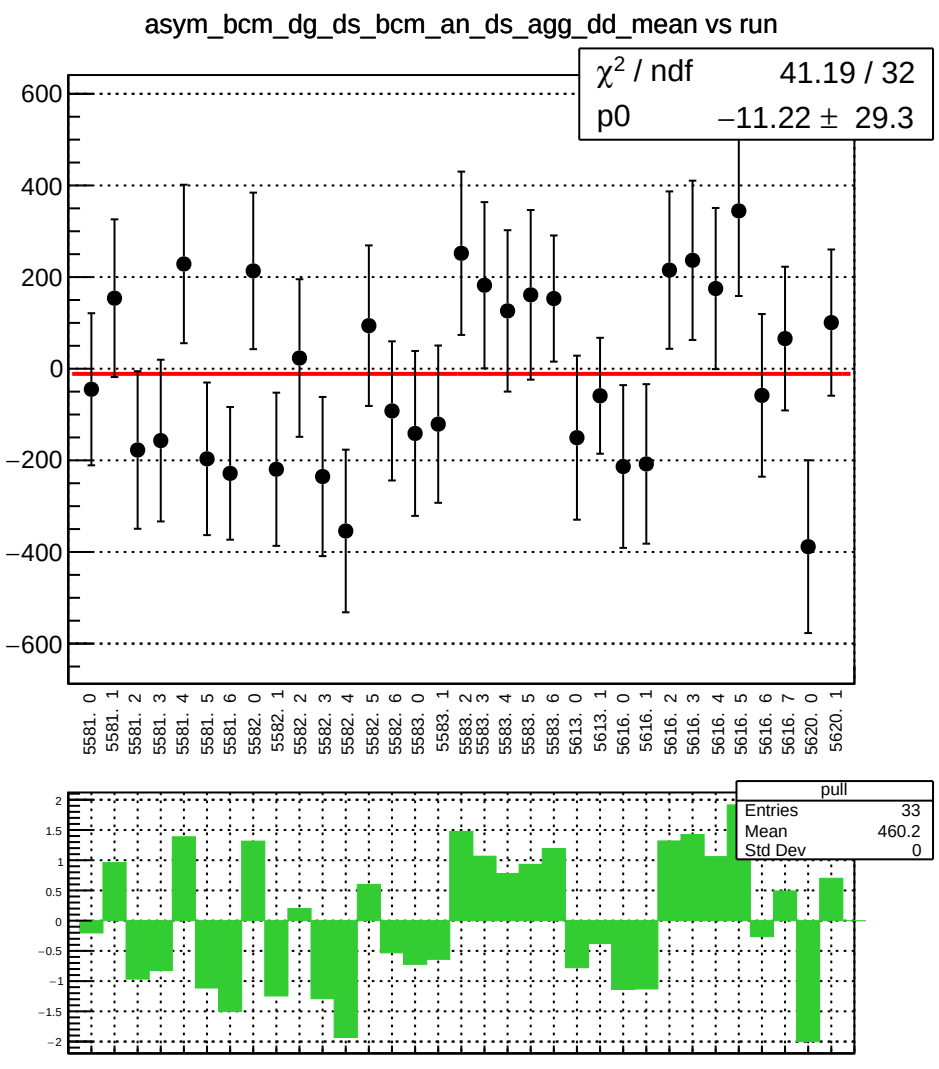

pull1D
Entries 33
Mean 0.008458
Std Dev 1.088
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

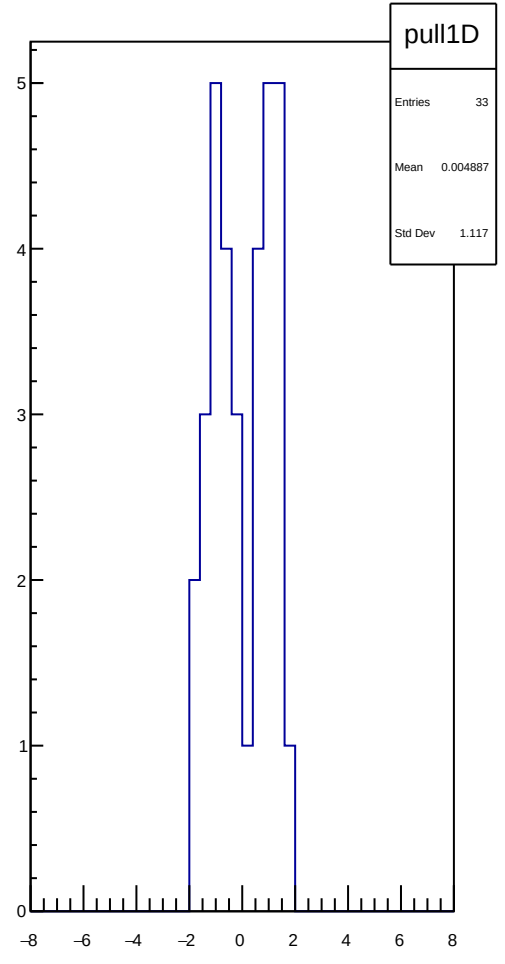

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1360 / 32
p0 21.28 ± 0.02638
27
26
25
24
23
22
21
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

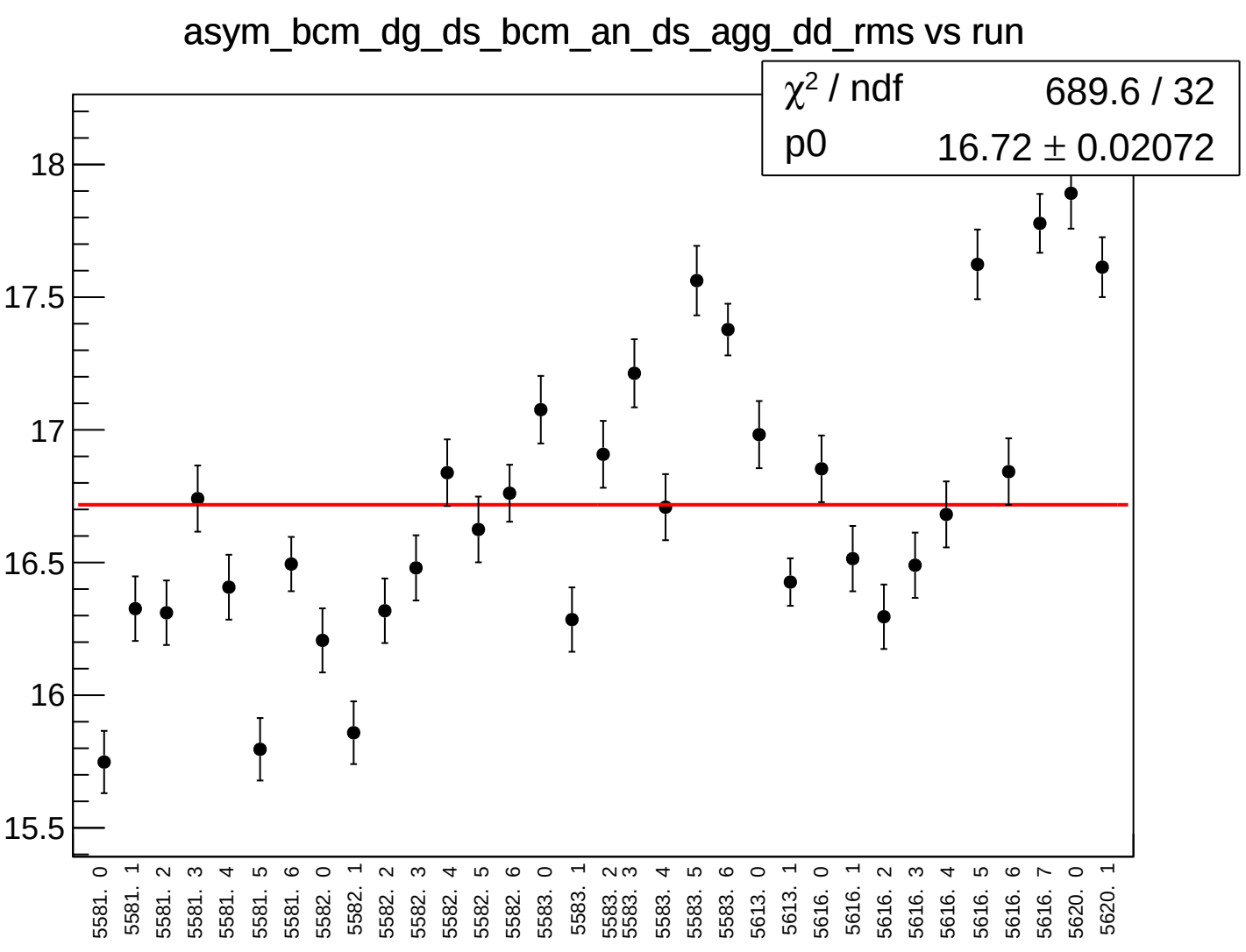

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 122.8 / 32
p0 994.9 ± 489.4
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 641.9
Std Dev 0
8
6
4
2
0
−2
−4
−6

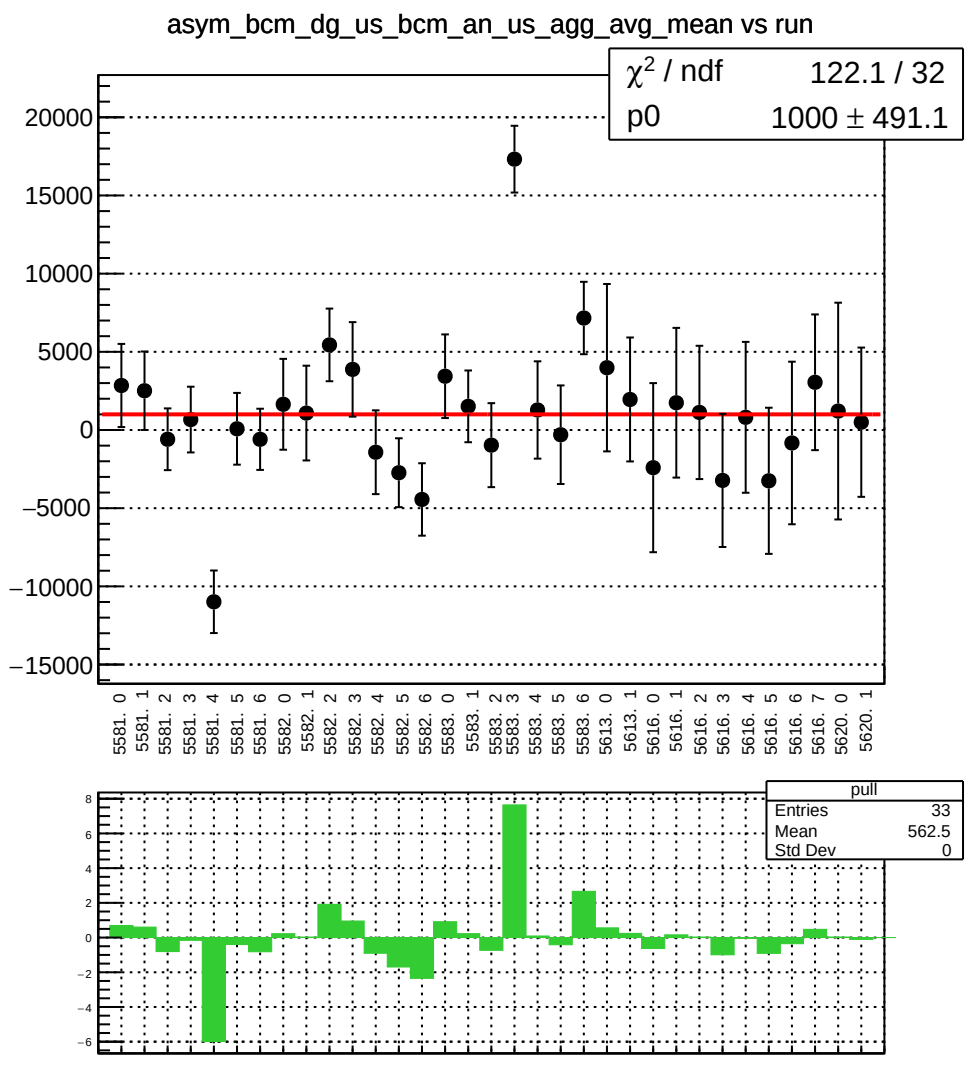

pull1D
Entries 33
Mean 0.003398
Std Dev 1.929
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

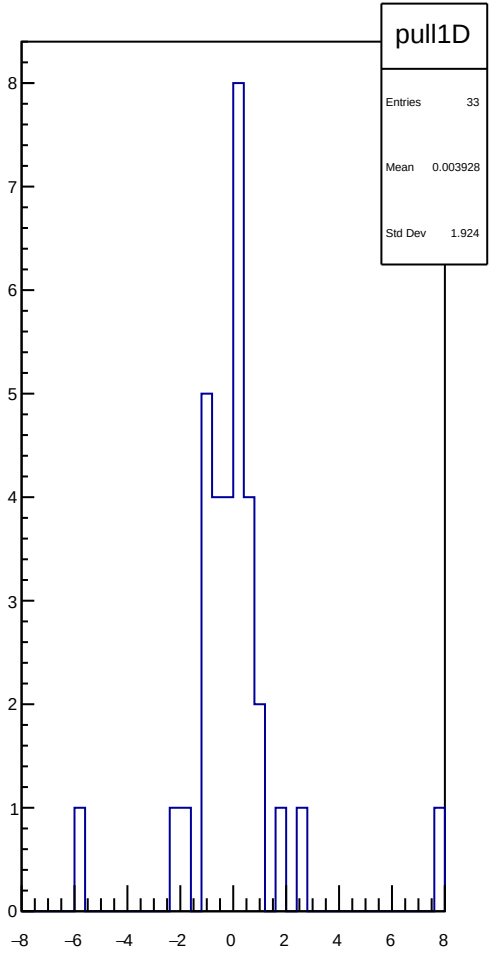

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 6.584e+04 / 32
p0 264.9 ± 0.3461
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

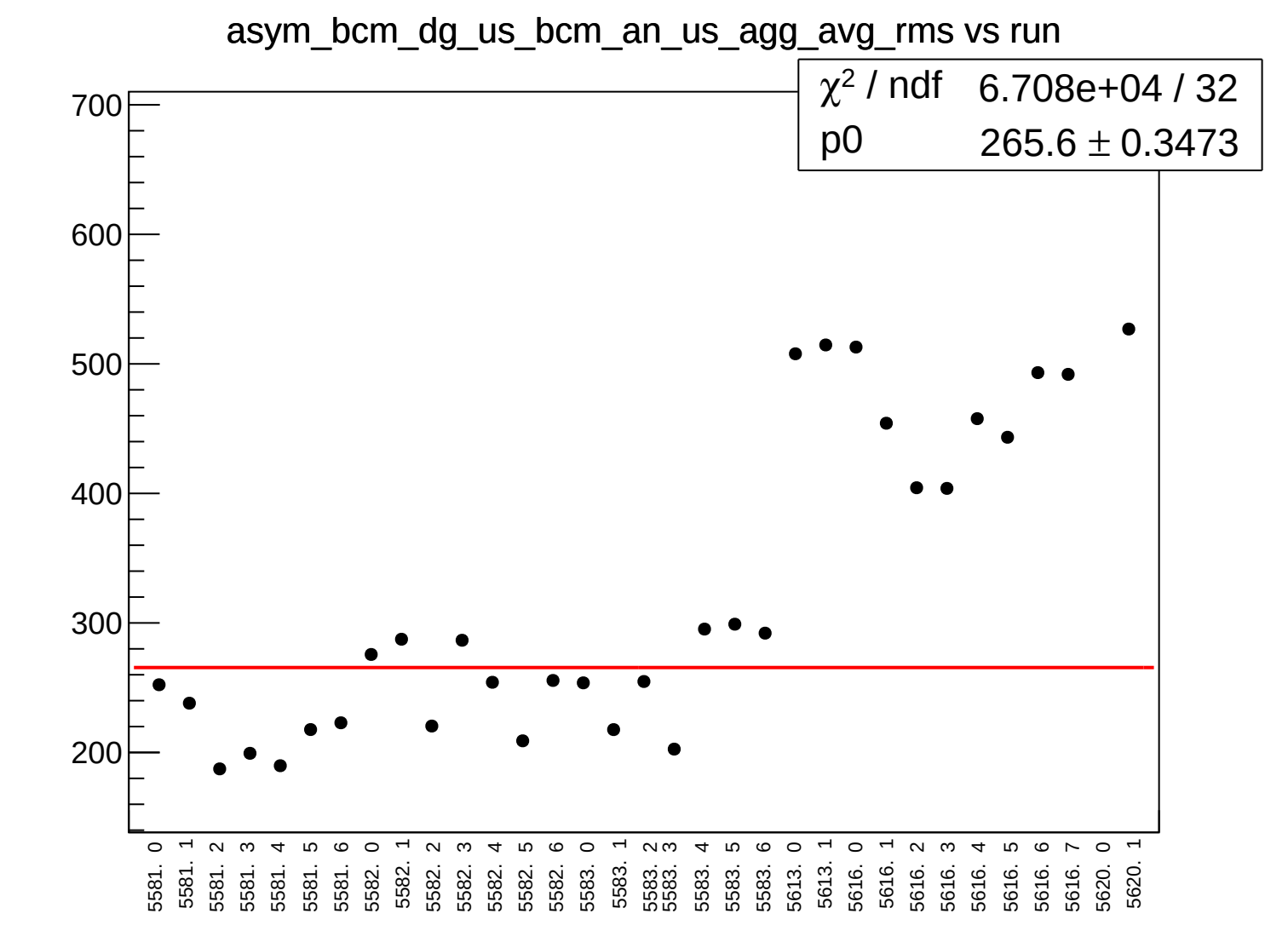

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 41.19 / 32
p0 −11.22 ± 29.3
600
400
200
0
−200
−400
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 460.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

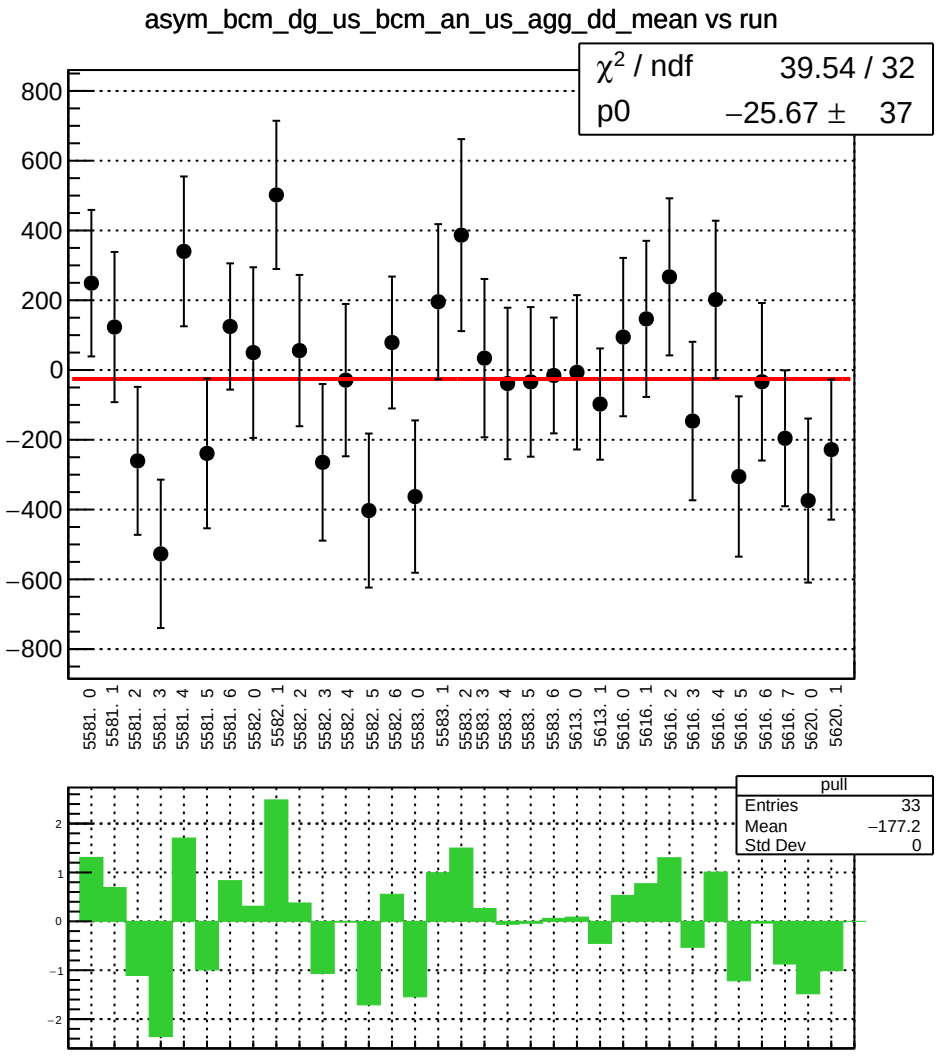

pull1D
Entries 33
Mean 0.004887
Std Dev 1.117
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

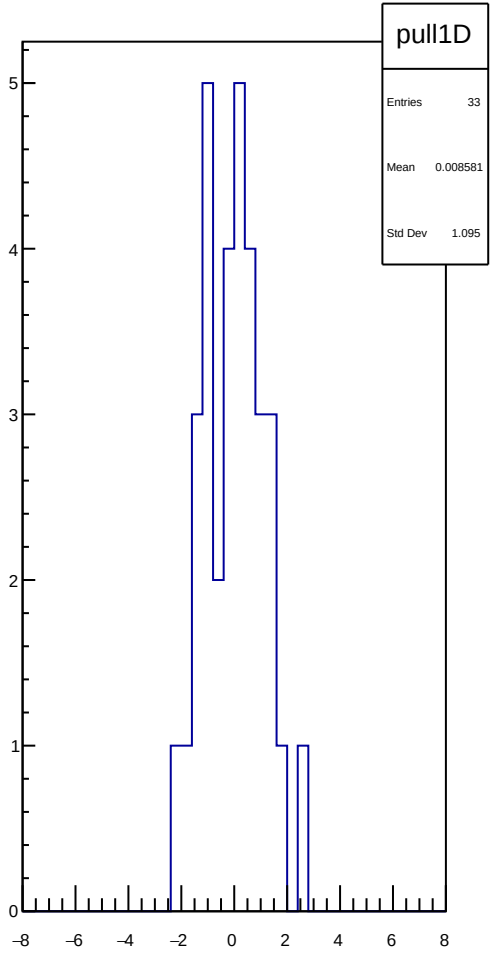

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 689.6 / 32
p0 16.72 ± 0.02072
18
17.5
17
16.5
16
15.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

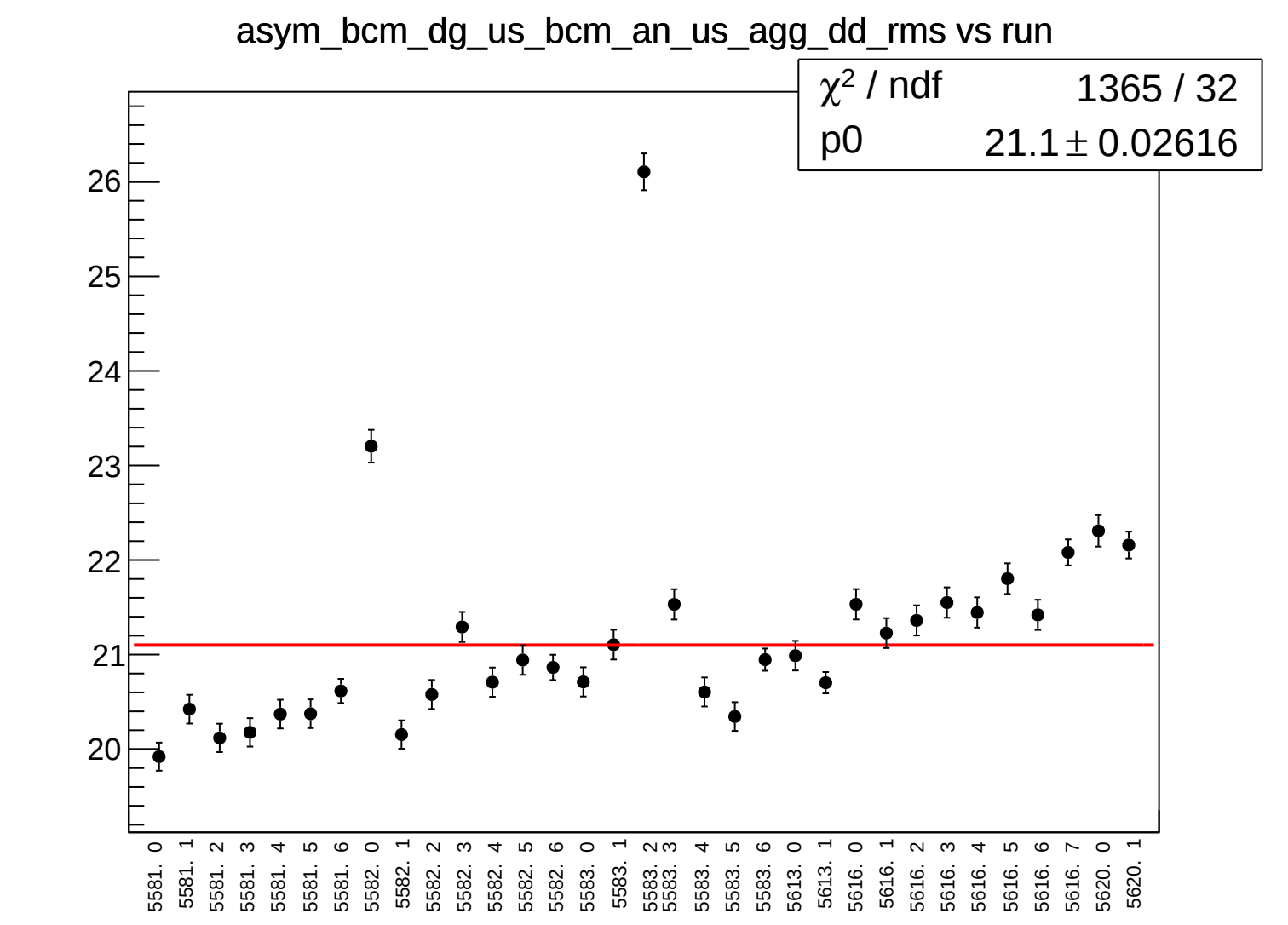

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 122.1 / 32
p0 1000 ± 491.1
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 562.5
Std Dev 0
8
6
4
2
0
−2
−4
−6

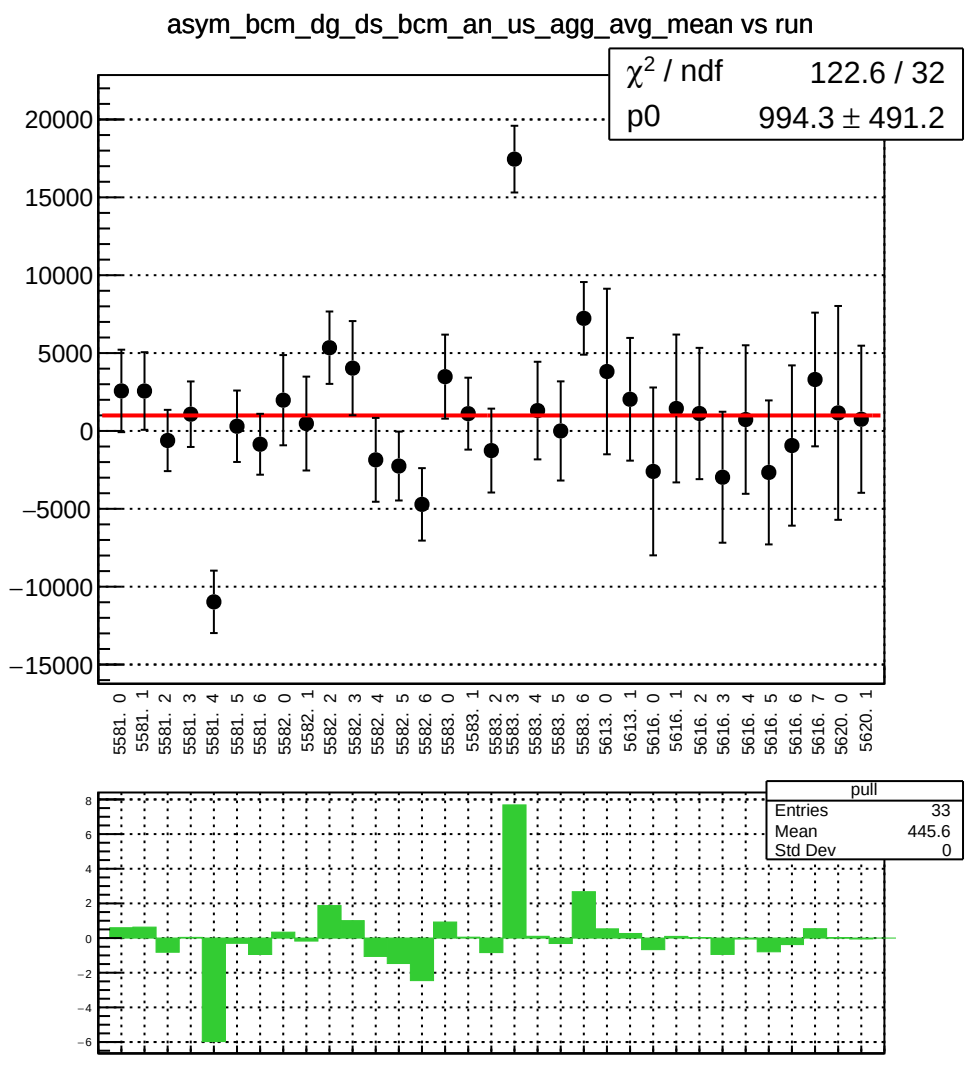

pull1D
Entries 33
Mean 0.003928
Std Dev 1.924
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

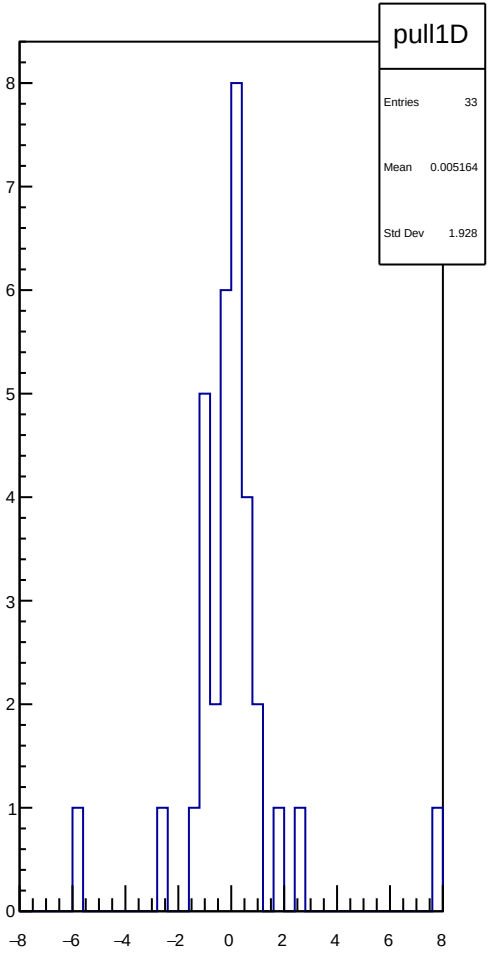

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6.708e+04 / 32
p0 265.6 ± 0.3473
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

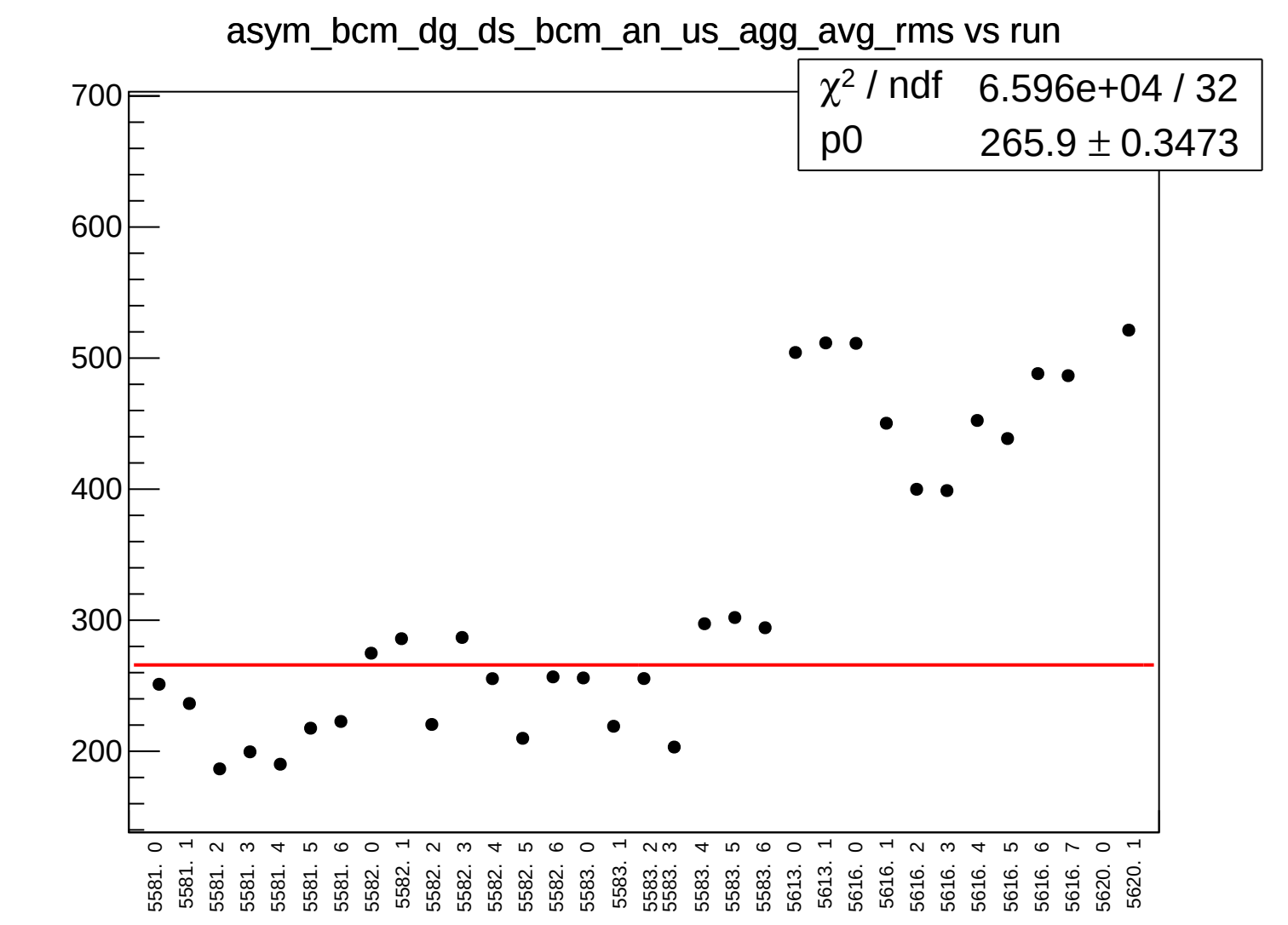

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 39.54 / 32
p0 −25.67 ± 37
800
600
400
200
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −177.2
Std Dev 0
2
1
0
−1
−2

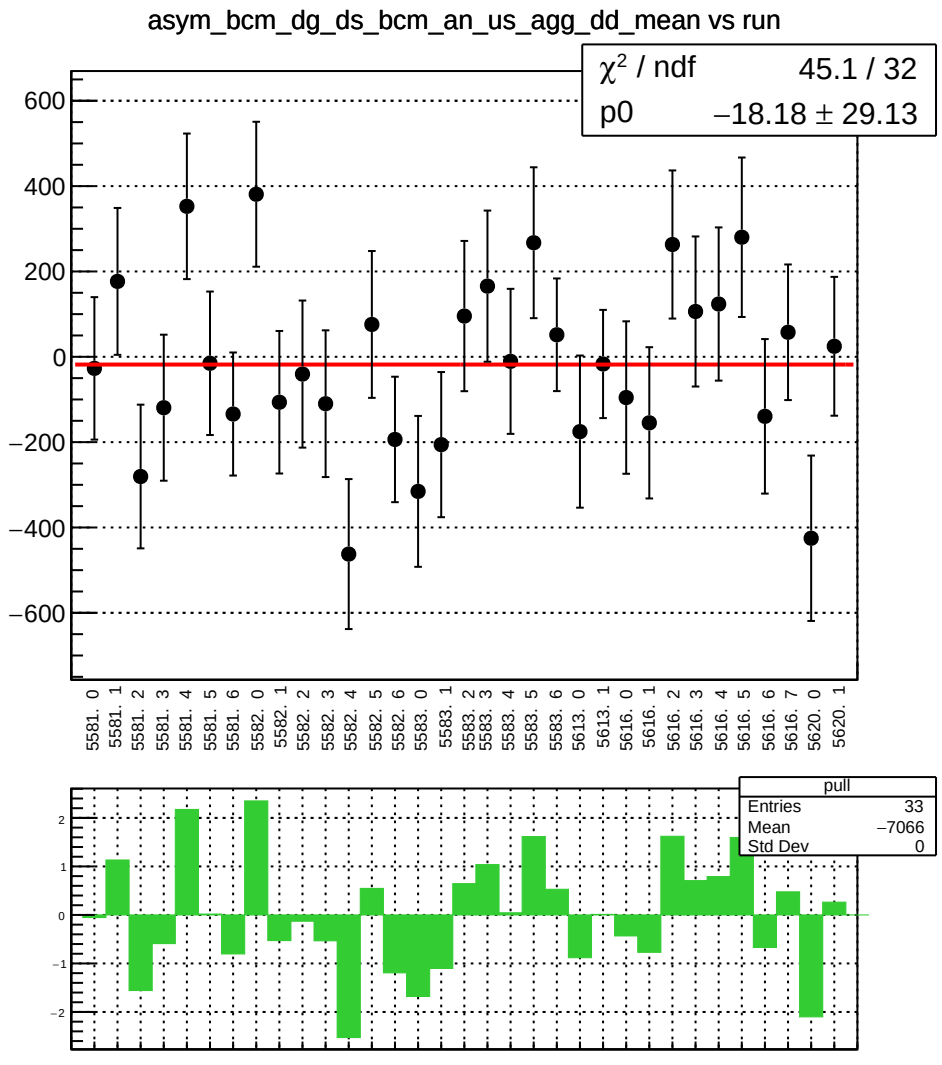

pull1D
Entries 33
Mean 0.008581
Std Dev 1.095
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

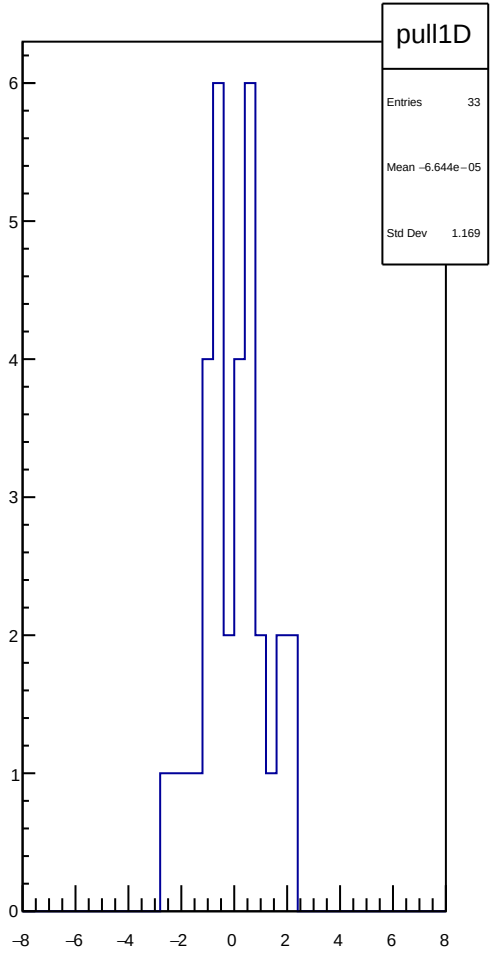

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1365 / 32
p0 21.1 ± 0.02616
26
25
24
23
22
21
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

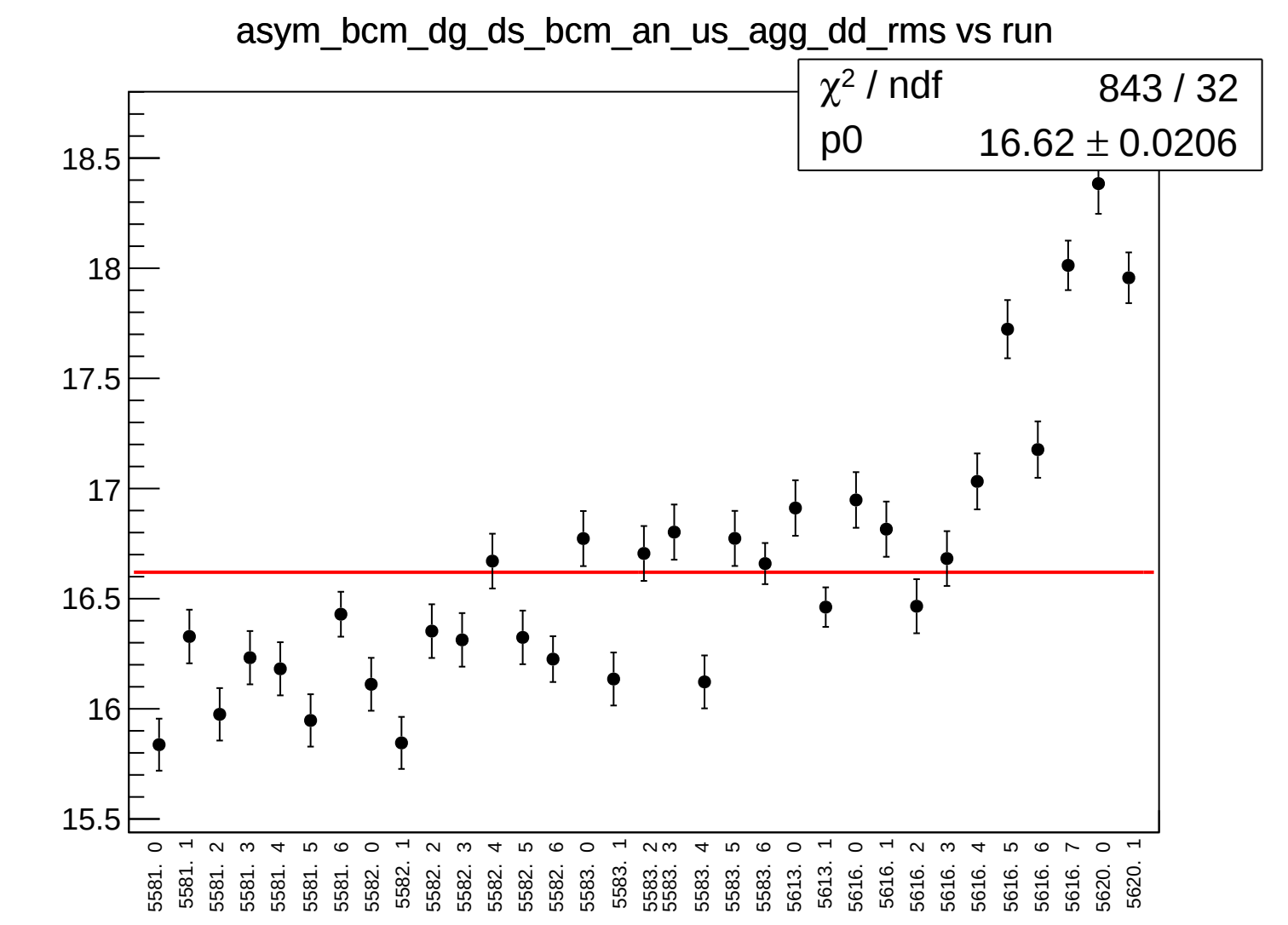

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 122.6 / 32
p0 994.3 ± 491.2
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 445.6
Std Dev 0
8
6
4
2
0
−2
−4
−6

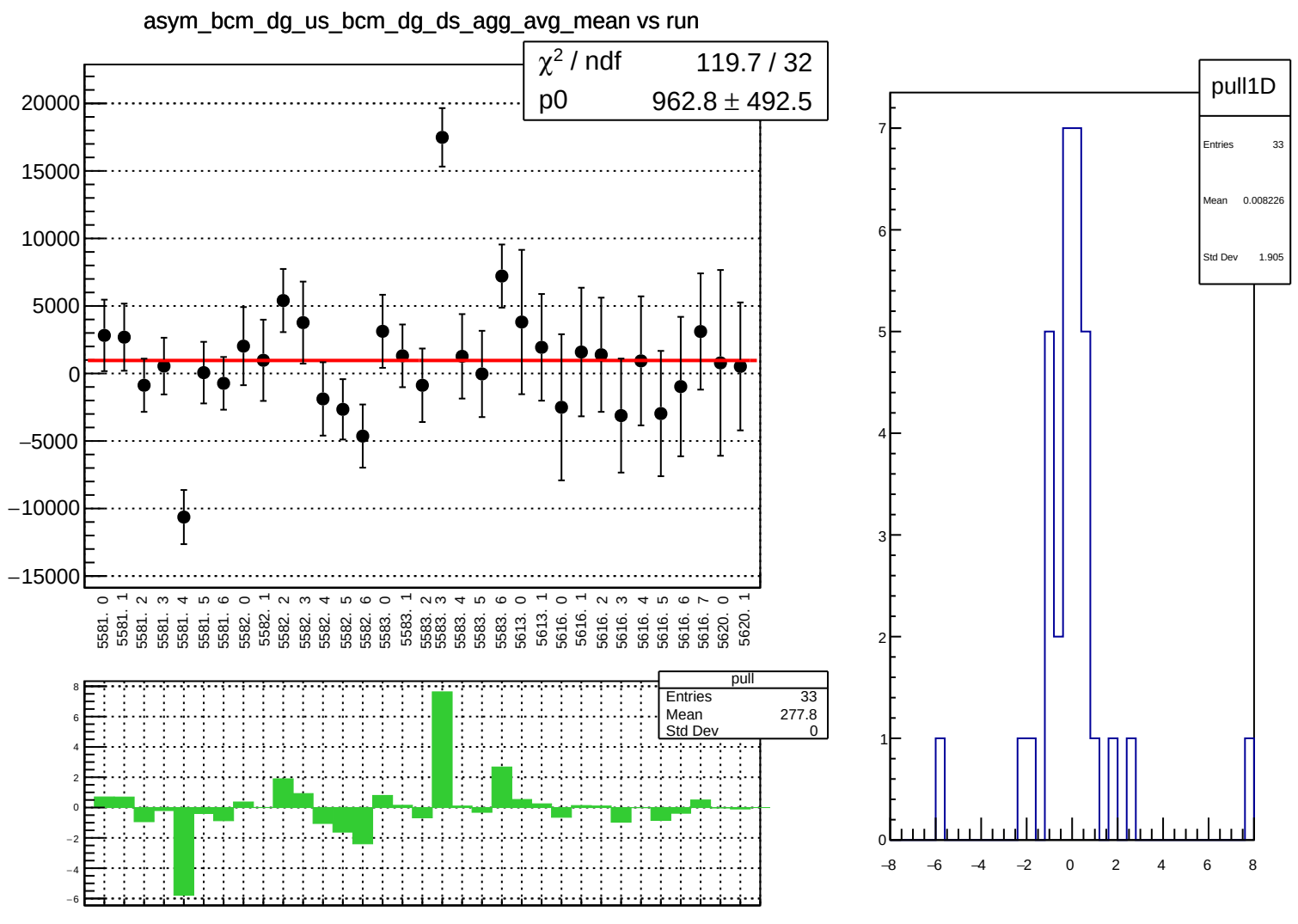

pull1D
Entries 33
Mean 0.005164
Std Dev 1.928
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

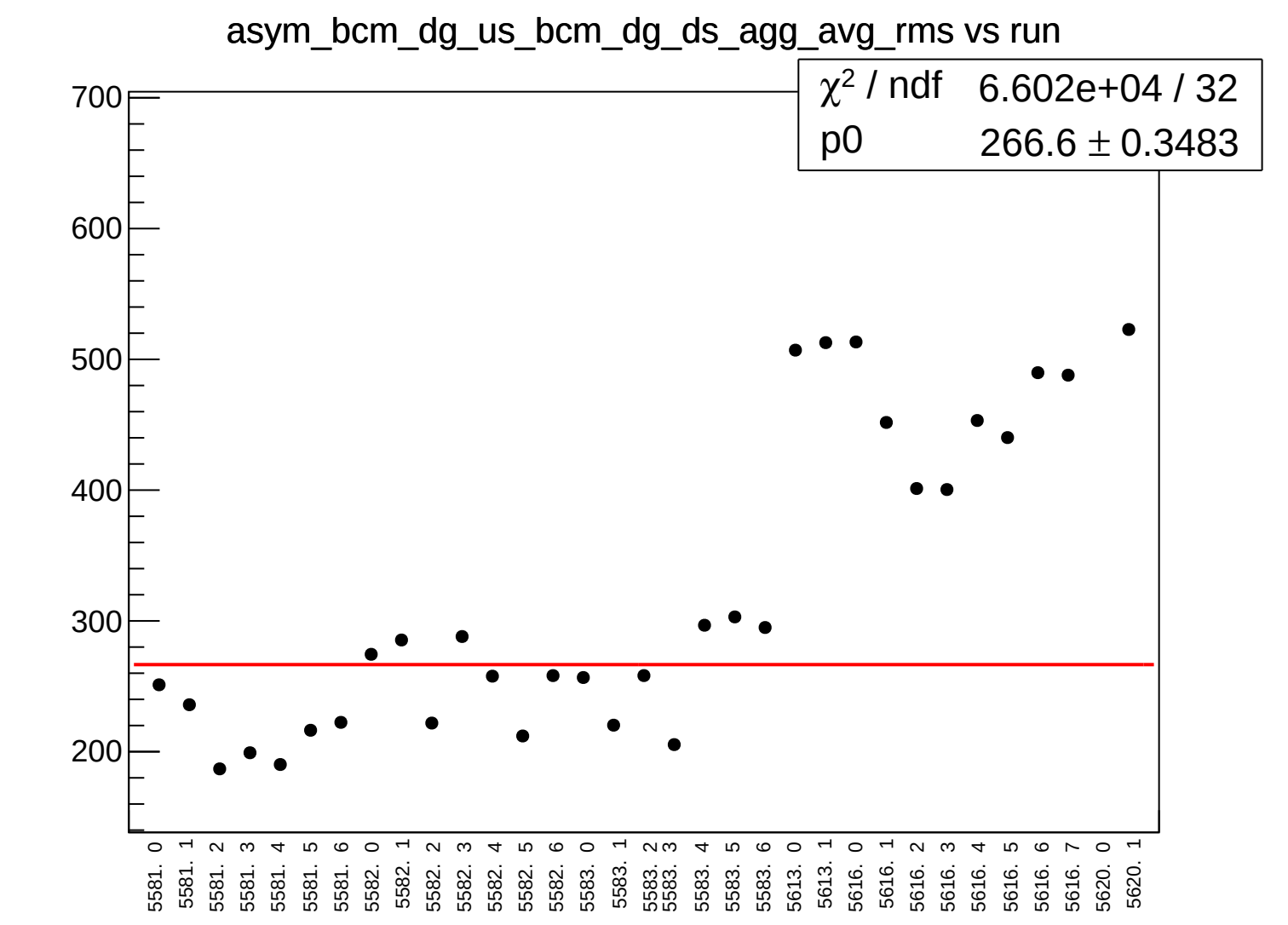

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 6.596e+04 / 32
p0 265.9 ± 0.3473
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

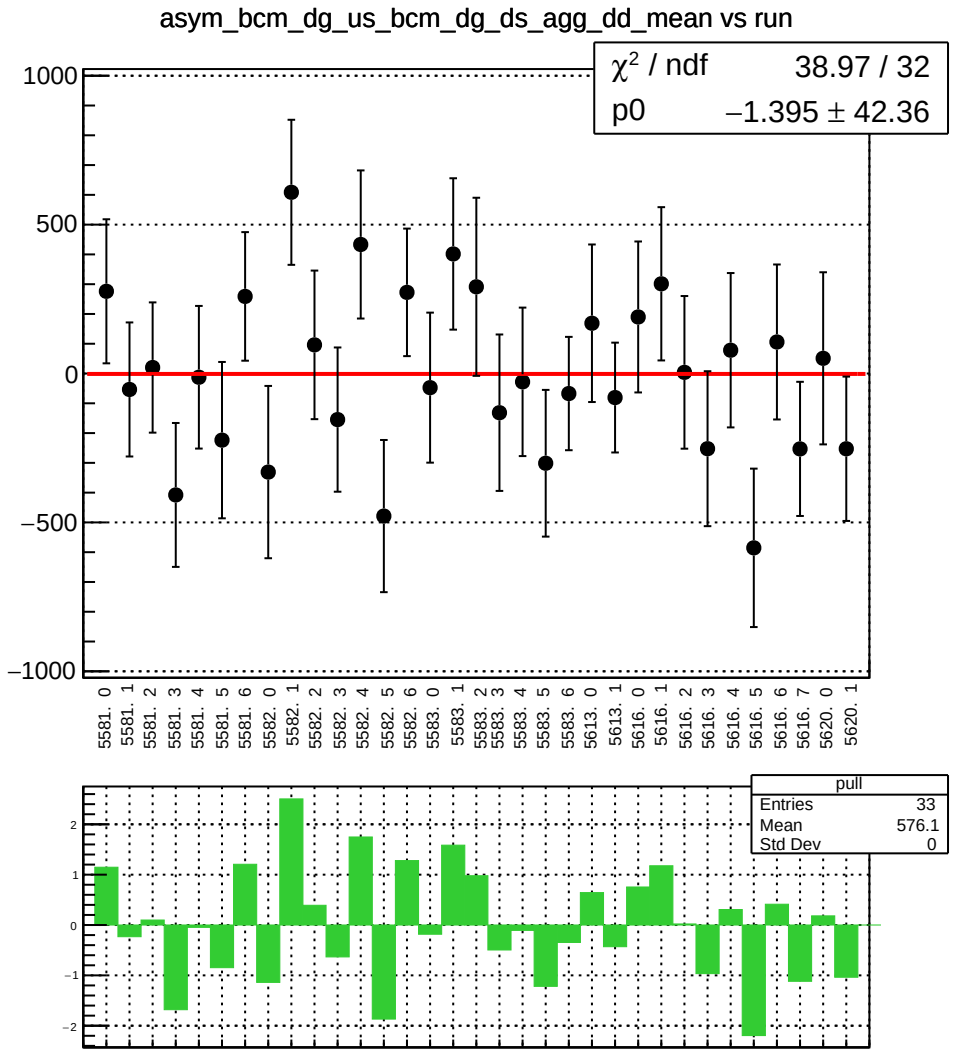

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 45.1 / 32
p0 −18.18 ± 29.13
600
400
200
0
−200
−400
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −7066
Std Dev 0
2
1
0
−1
−2

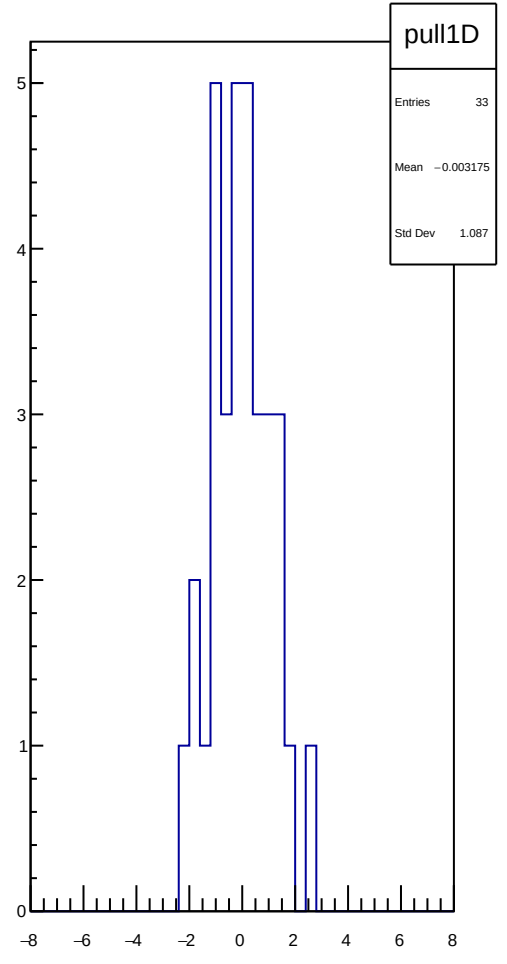

pull1D
Entries 33
Mean −6.644e−05
Std Dev 1.169
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

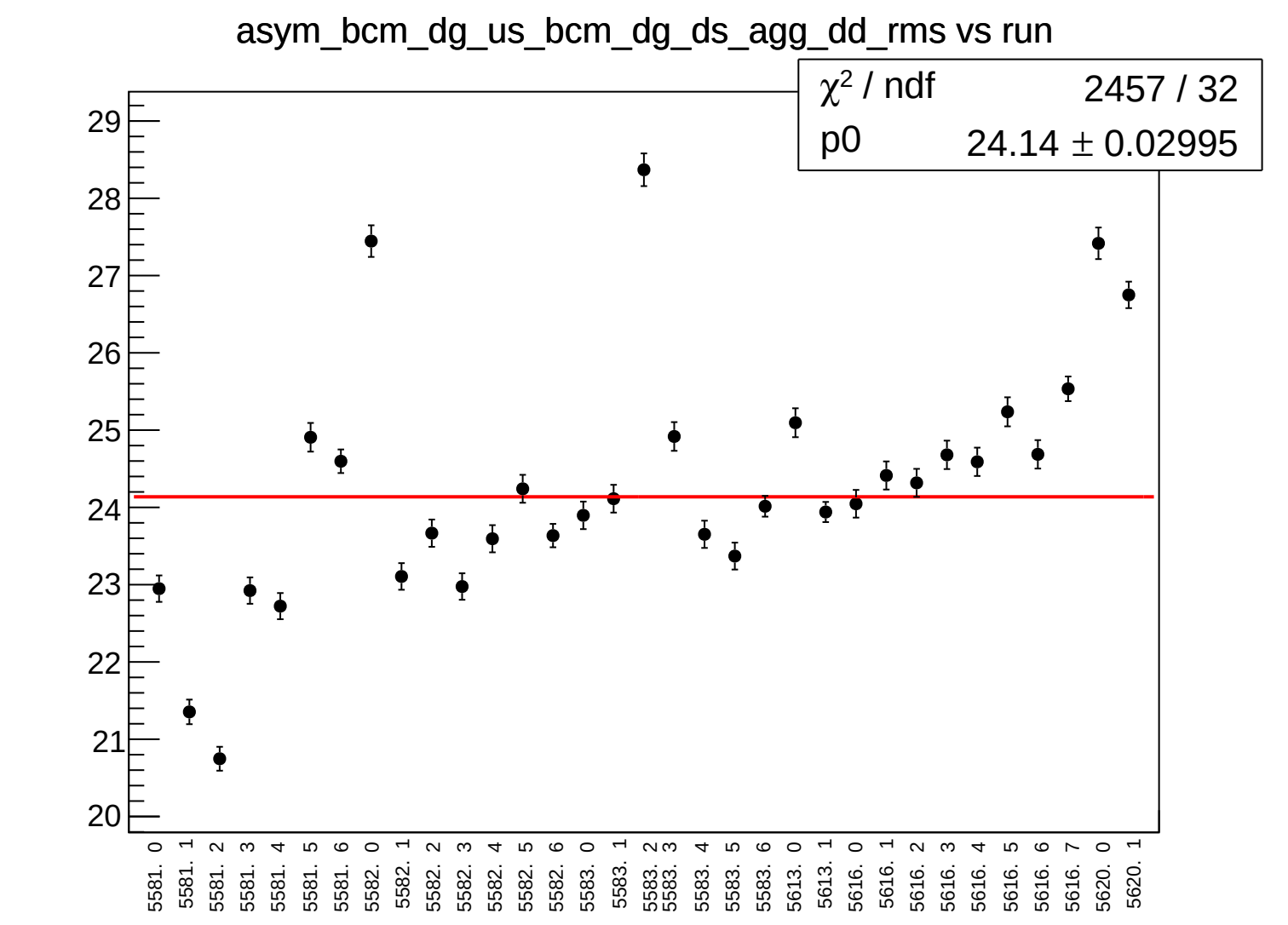

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 843 / 32
p0 16.62 ± 0.0206
18.5
18
17.5
17
16.5
16
15.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

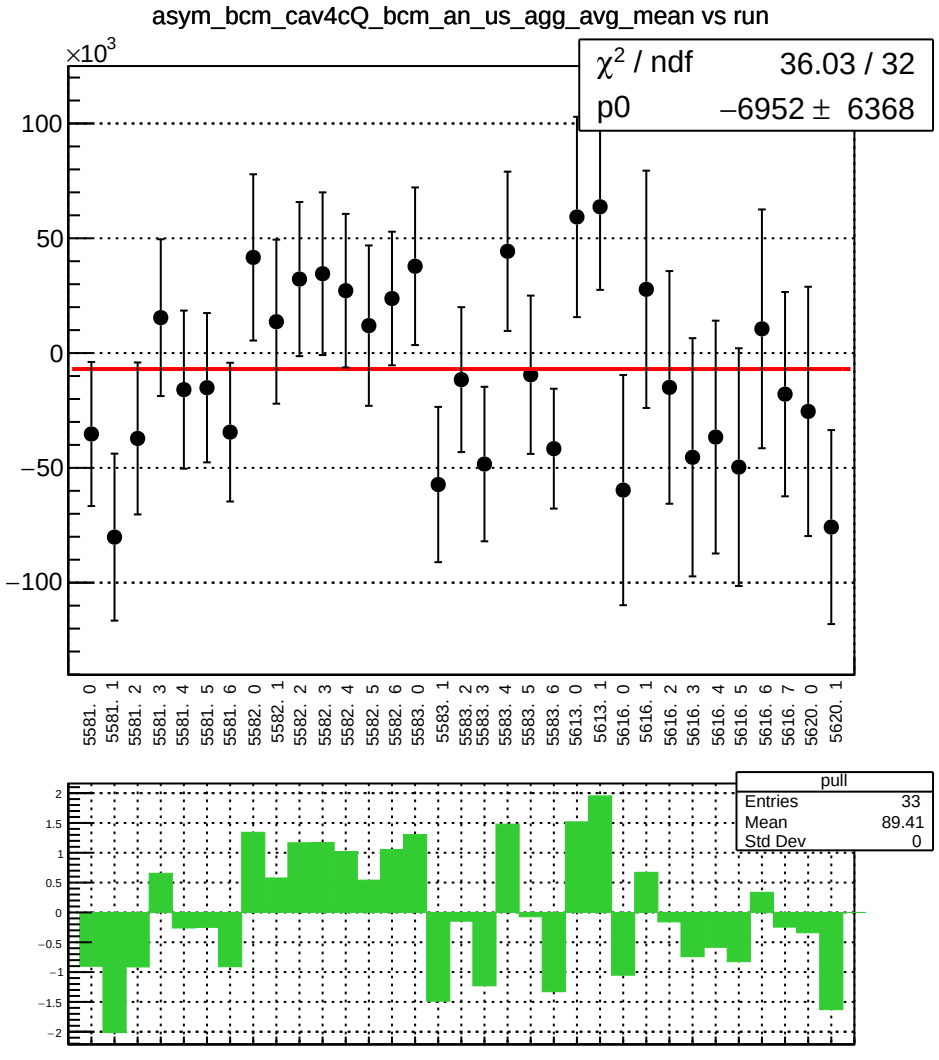

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 119.7 / 32
p0 962.8 ± 492.5
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 277.8
Std Dev 0
8
6
4
2
0
−2
−4
−6
pull1D
Entries 33
Mean 0.008226
Std Dev 1.905
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

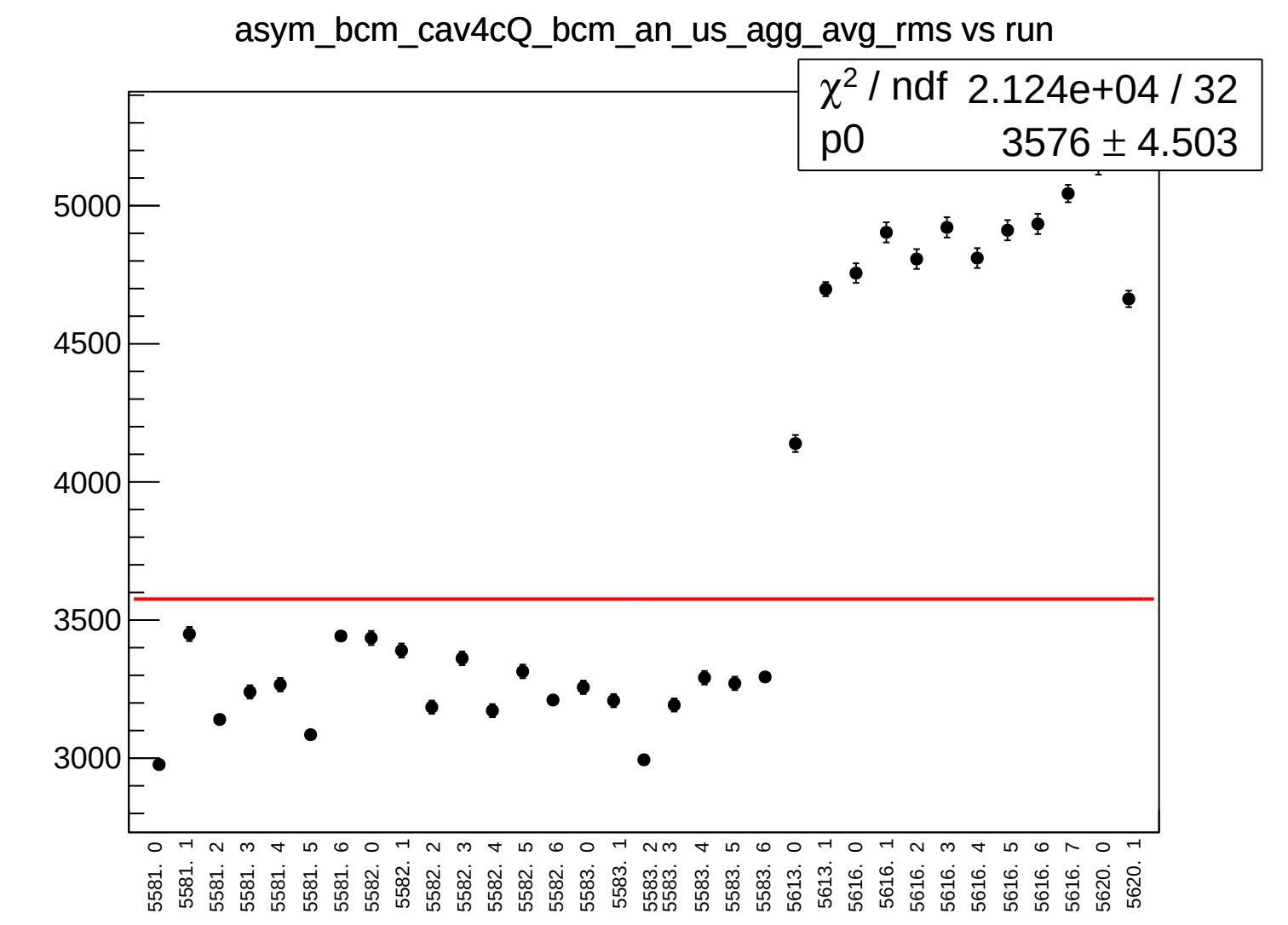

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 6.602e+04 / 32
p0 266.6 ± 0.3483
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

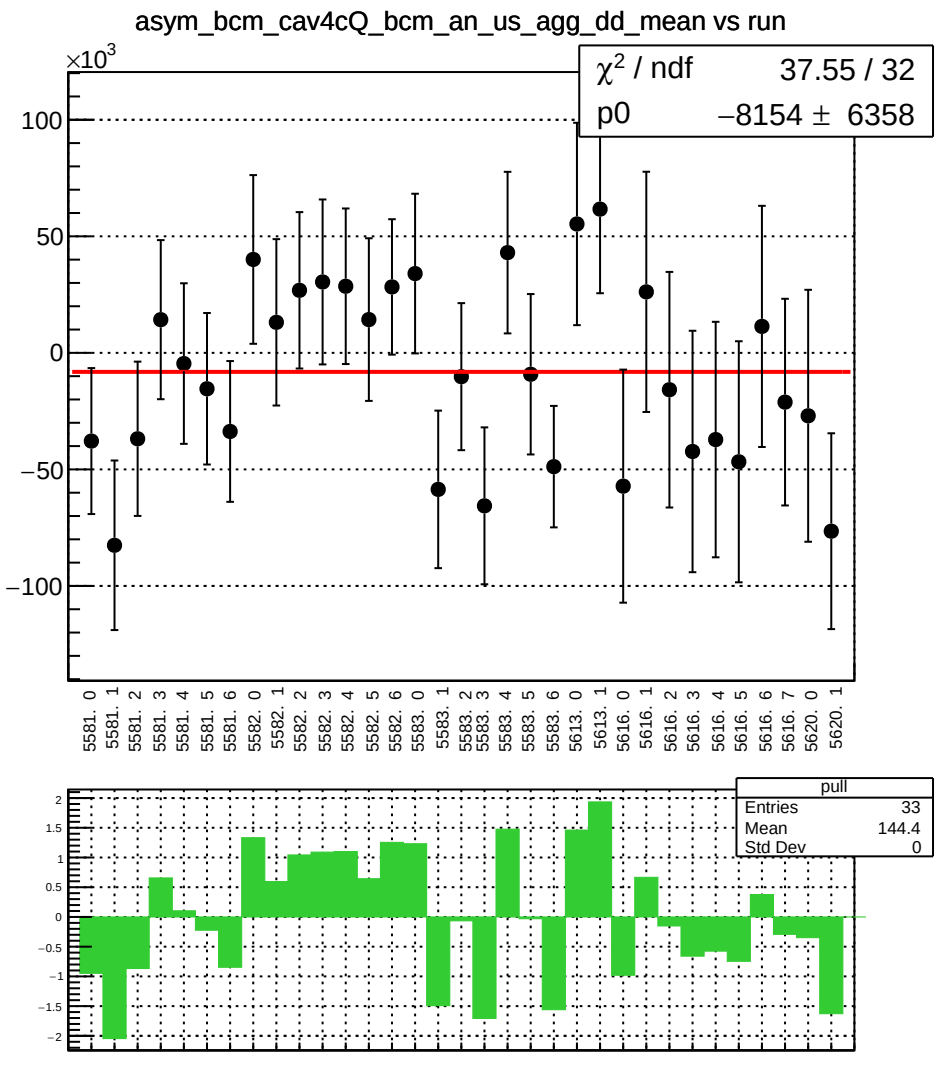

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 38.97 / 32
p0 −1.395 ± 42.36
1000
500
0
−500
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 576.1
Std Dev 0
2
1
0
−1
−2

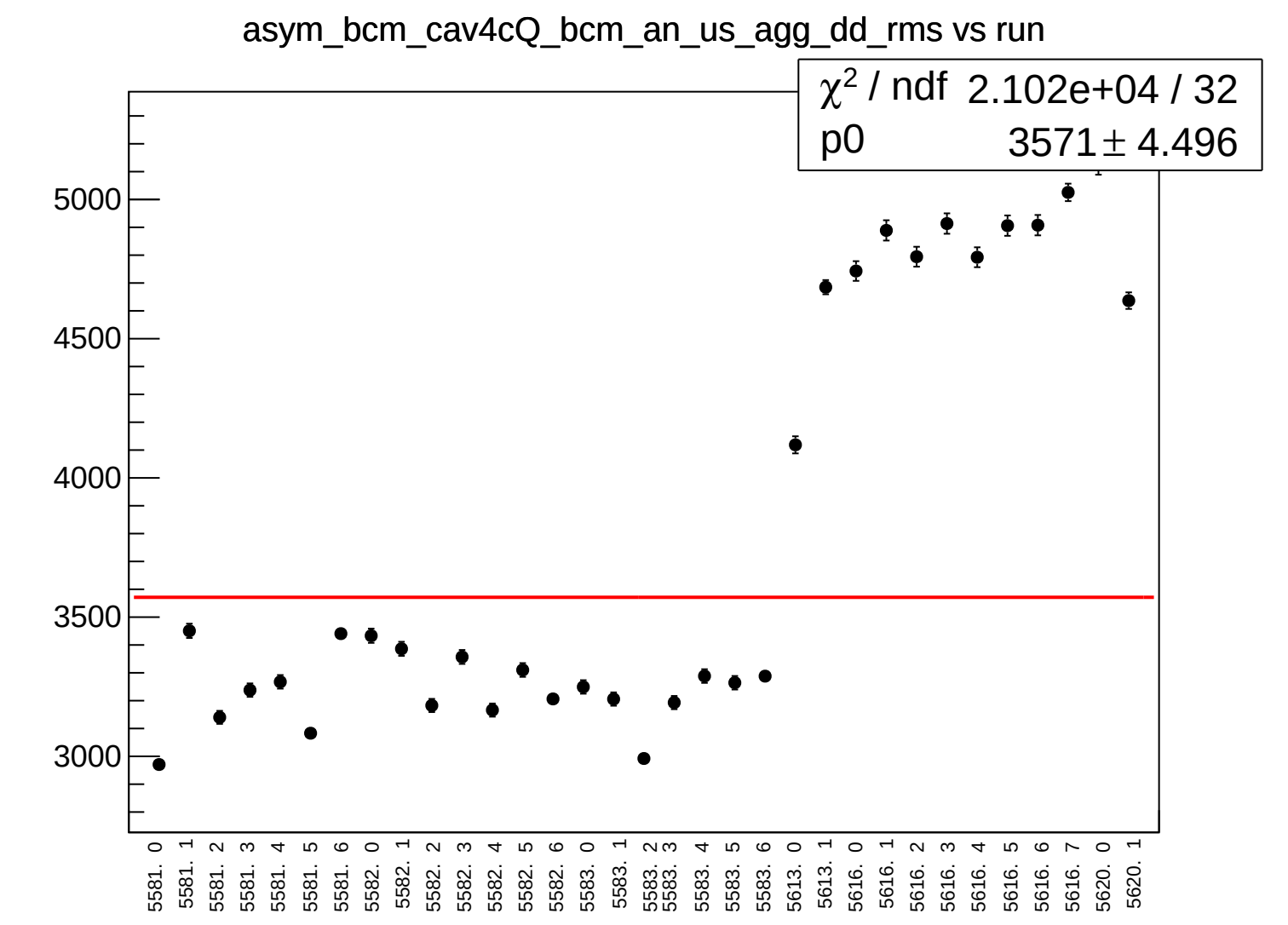

pull1D
Entries 33
Mean −0.003175
Std Dev 1.087
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

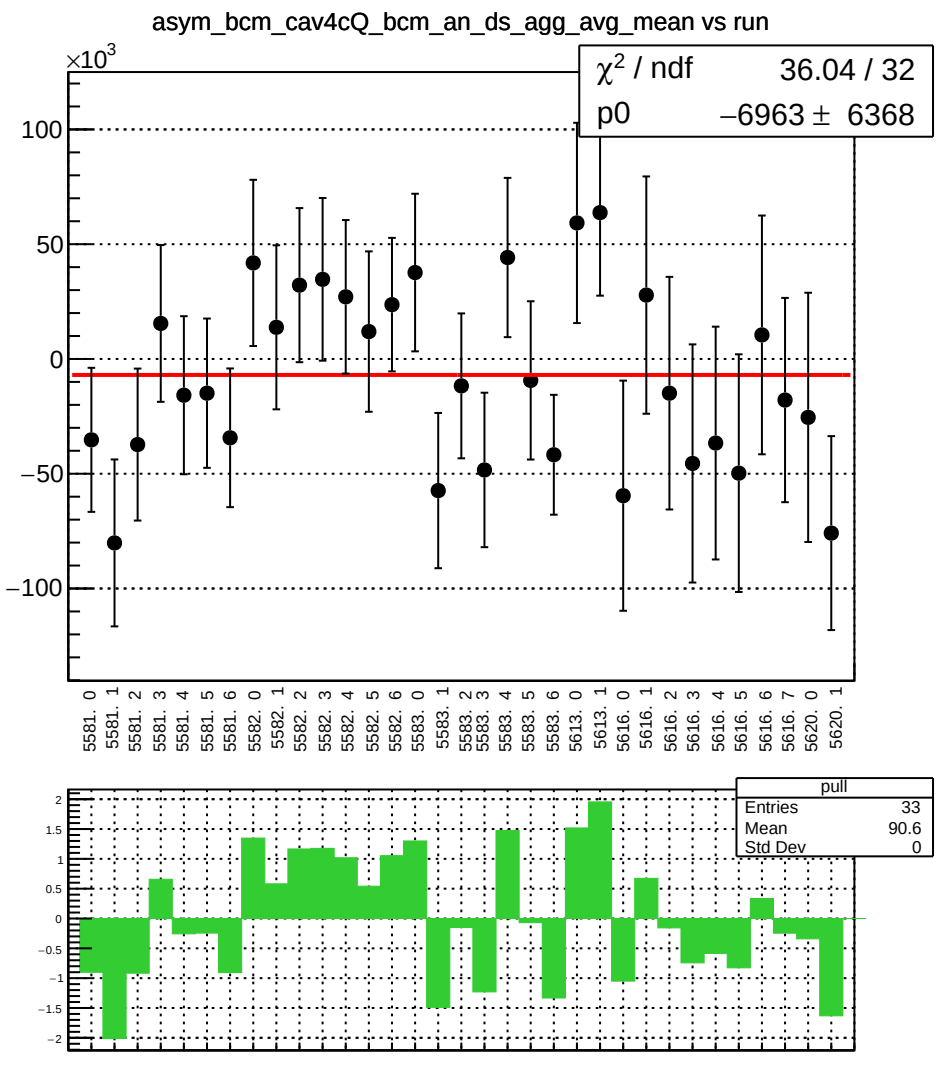

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2457 / 32
p0 24.14 ± 0.02995
29
28
27
26
25
24
23
22
21
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

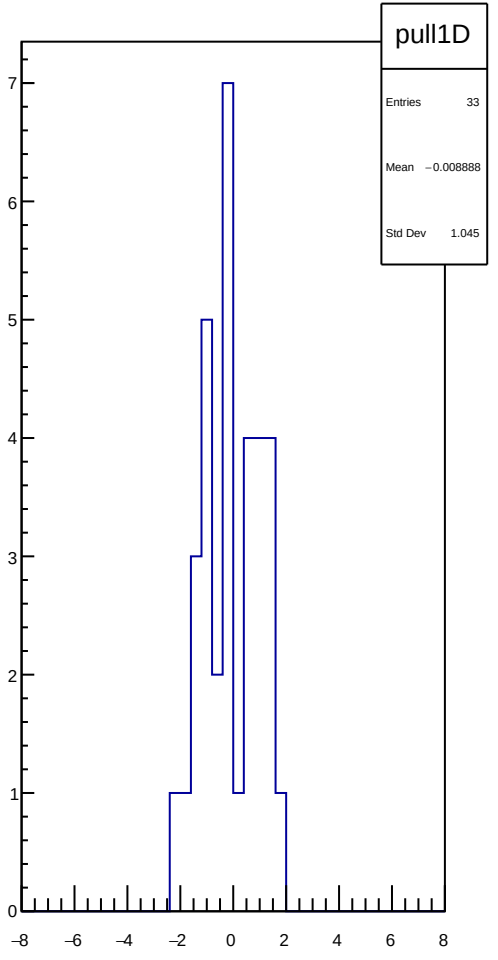

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
×10^3
χ^2 / ndf 36.03 / 32
p0 −6952 ± 6368
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 89.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.008925
Std Dev 1.045
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

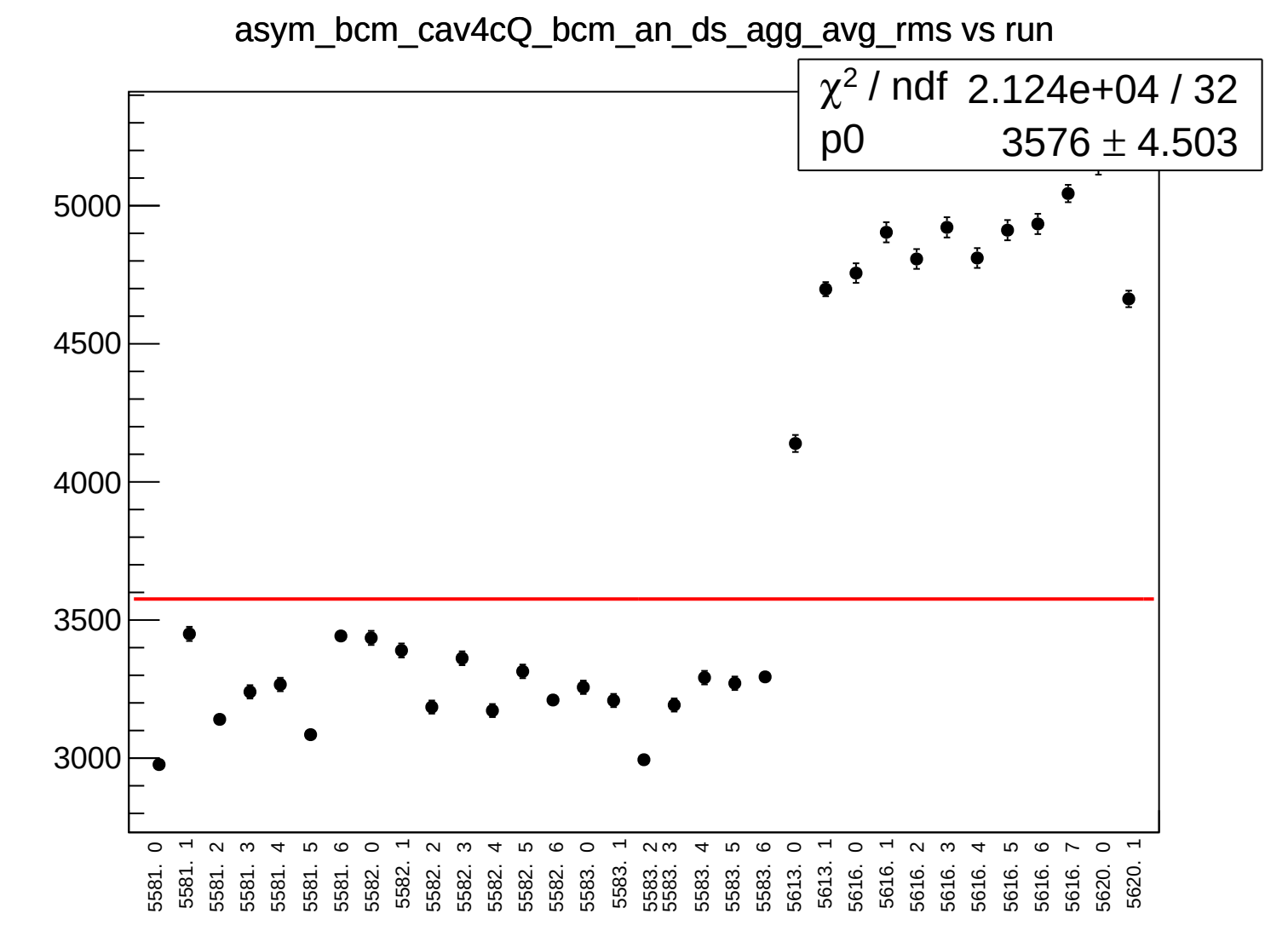

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.124e+04 / 32
p0 3576 ± 4.503
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

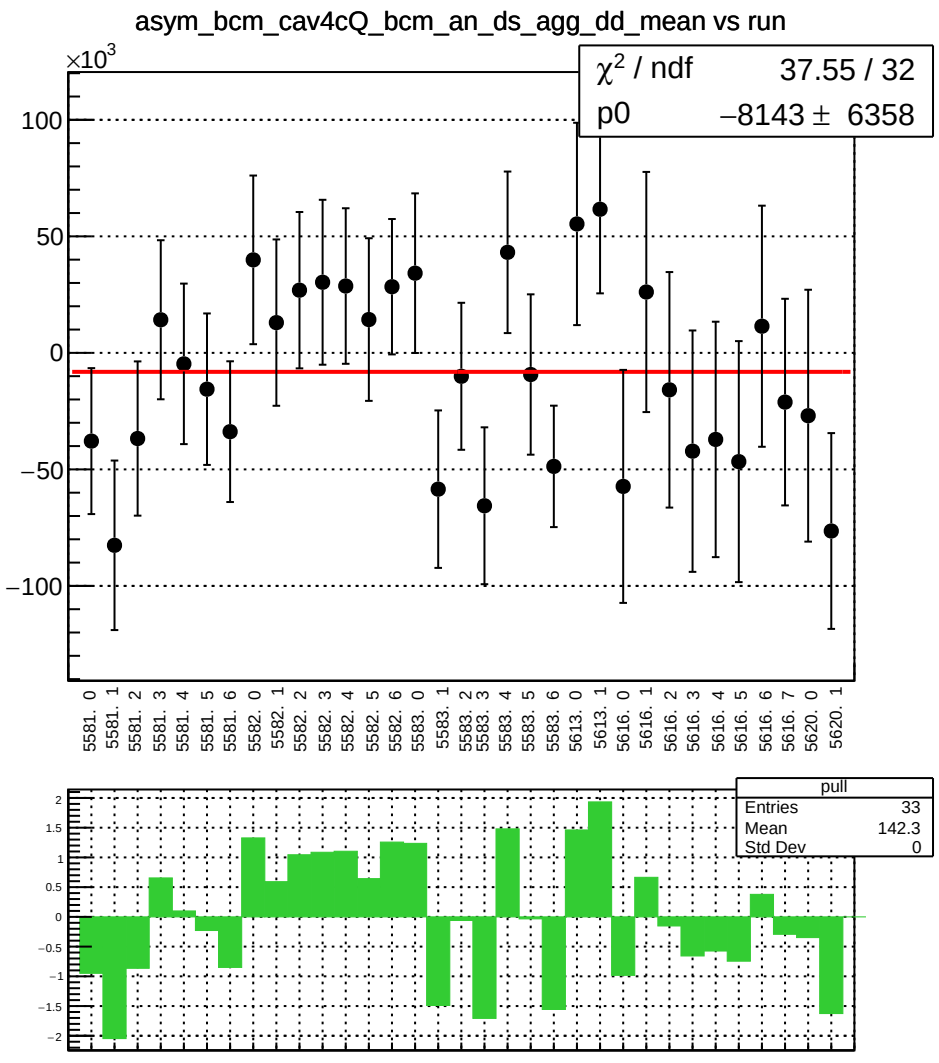

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
×10^3
χ² / ndf 37.55 / 32
p0 −8154 ± 6358
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 144.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.00608
Std Dev 1.067
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

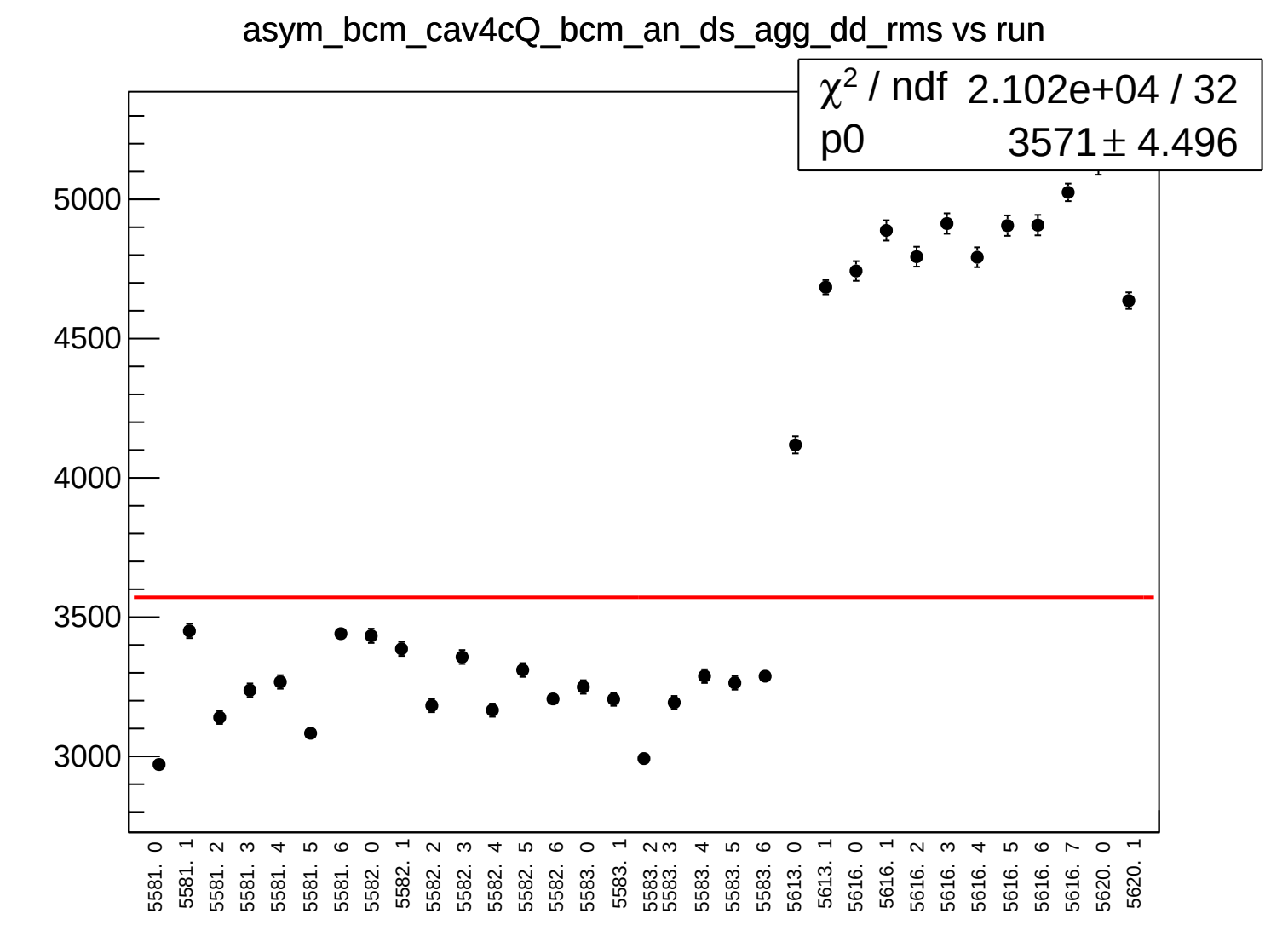

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2.102e+04 / 32
p0 3571 ± 4.496
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

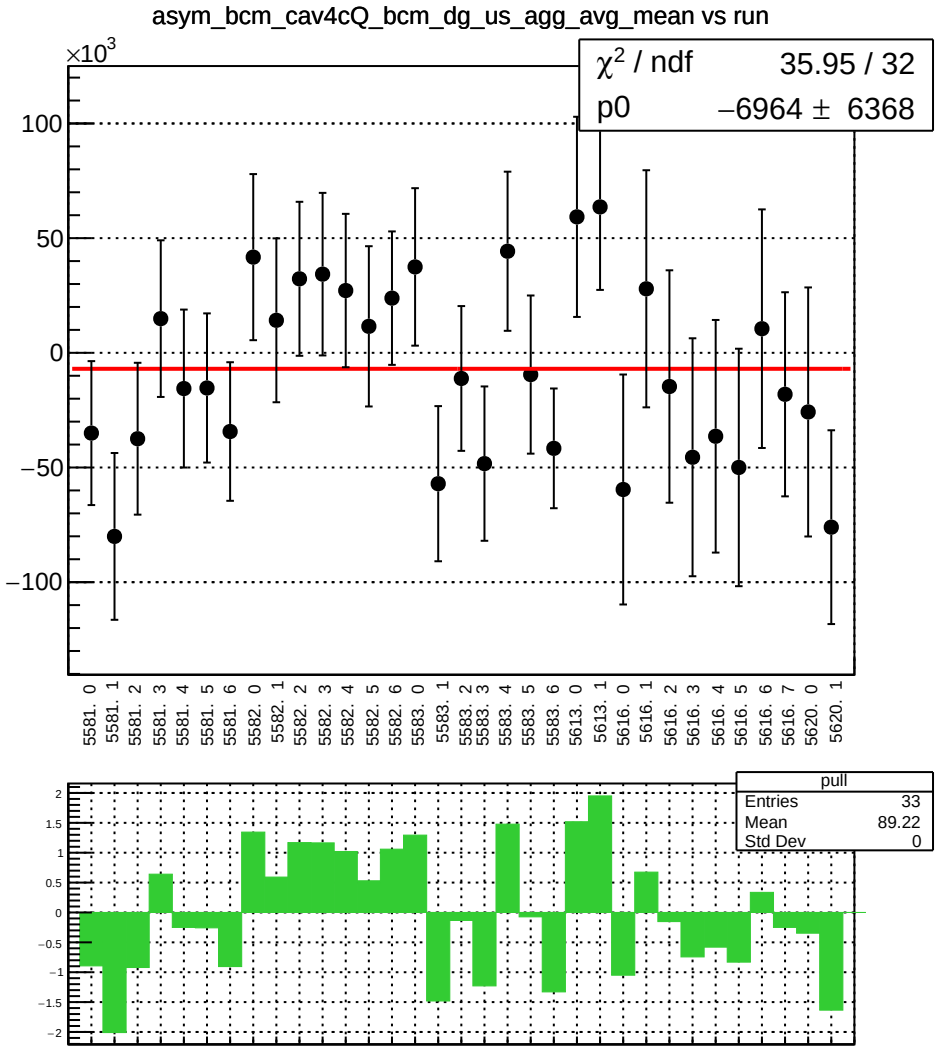

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
×10^3
χ^2 / ndf 36.04 / 32
p0 −6963 ± 6368
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 90.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

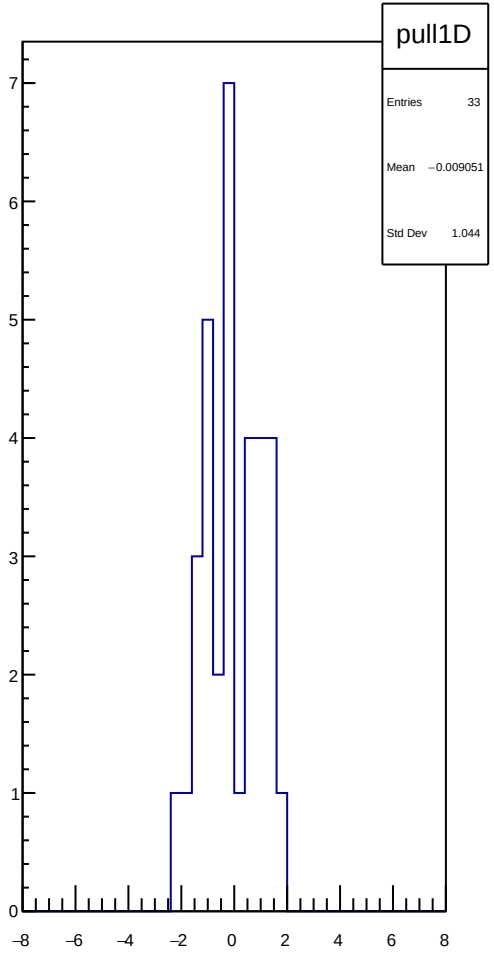

pull1D
Entries 33
Mean −0.008888
Std Dev 1.045
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

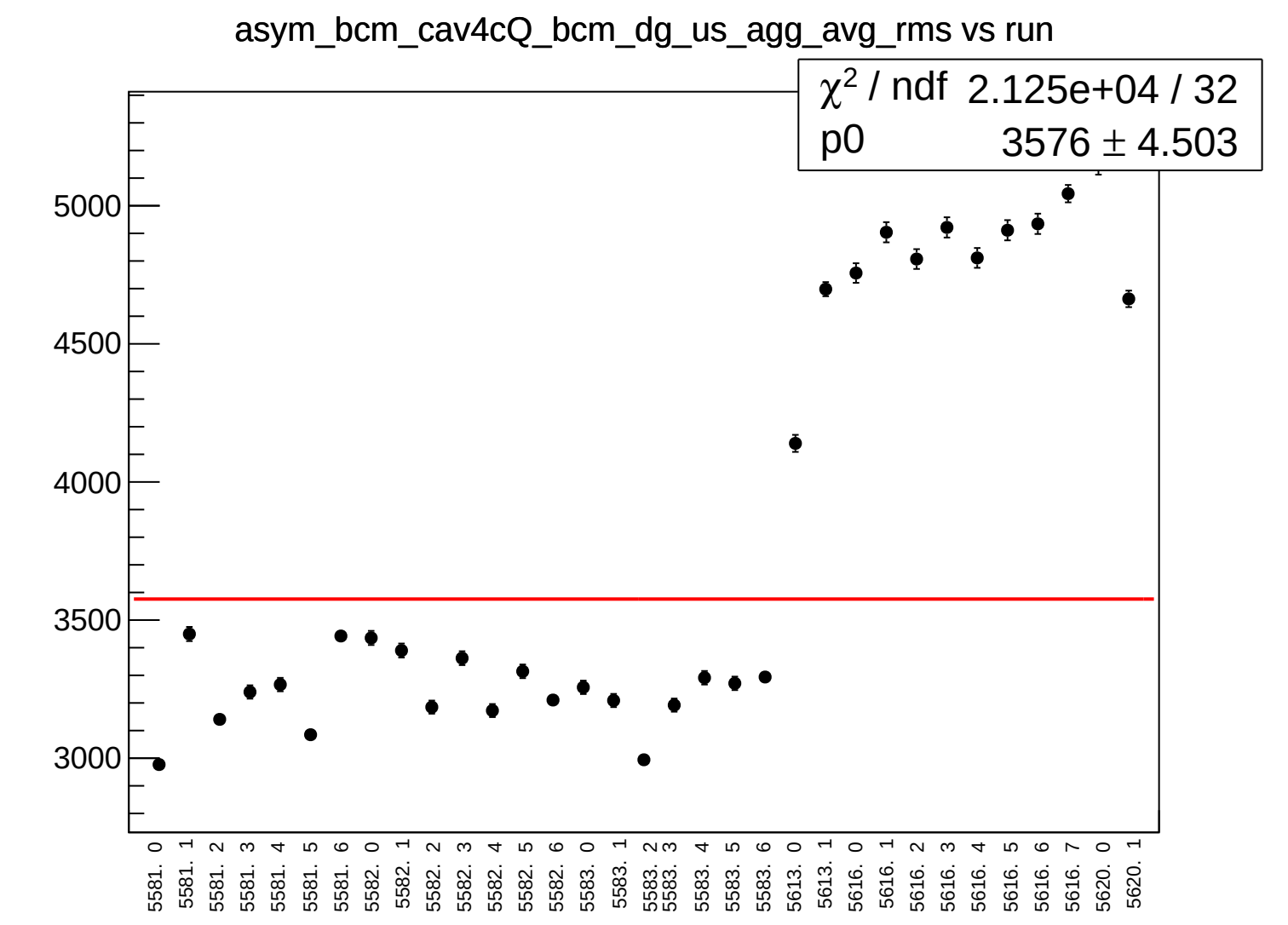

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.124e+04 / 32
p0 3576 ± 4.503
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

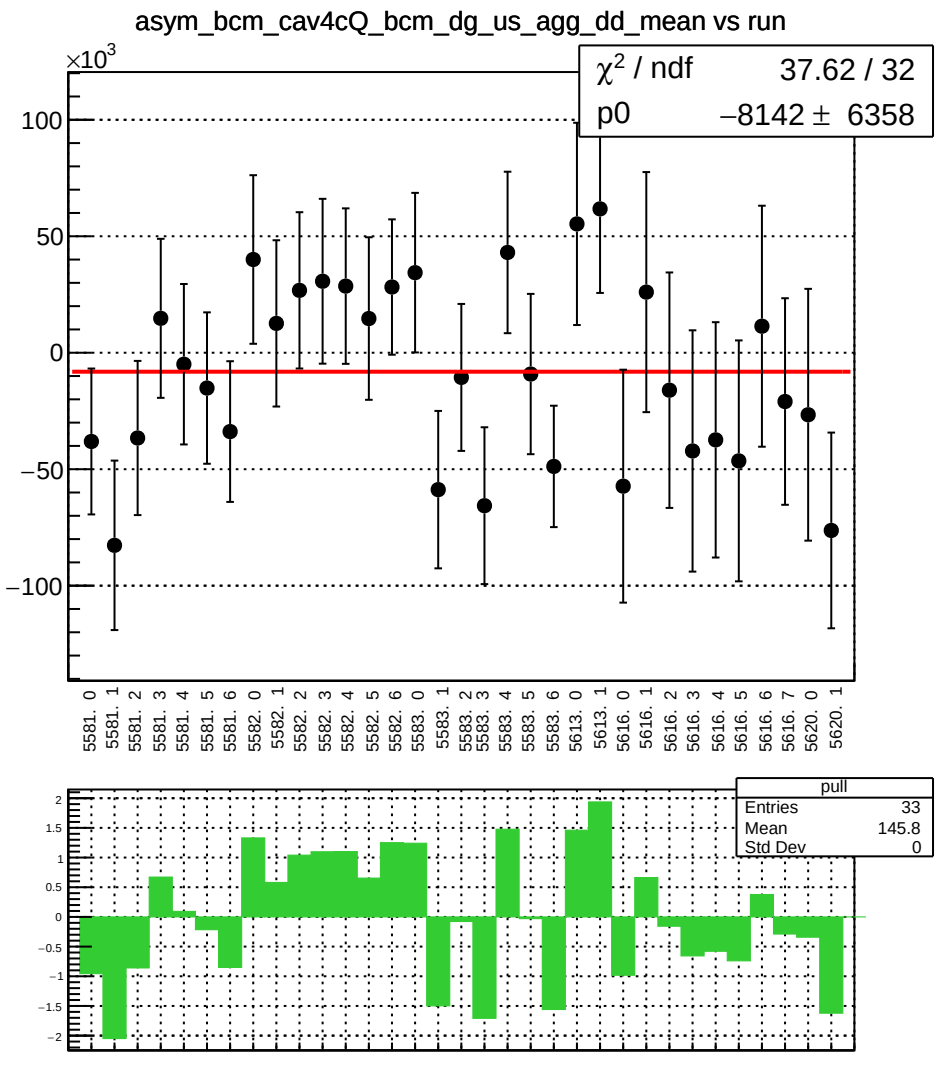

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
×10^3
χ² / ndf 37.55 / 32
p0 −8143 ± 6358
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 142.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.006121
Std Dev 1.067
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

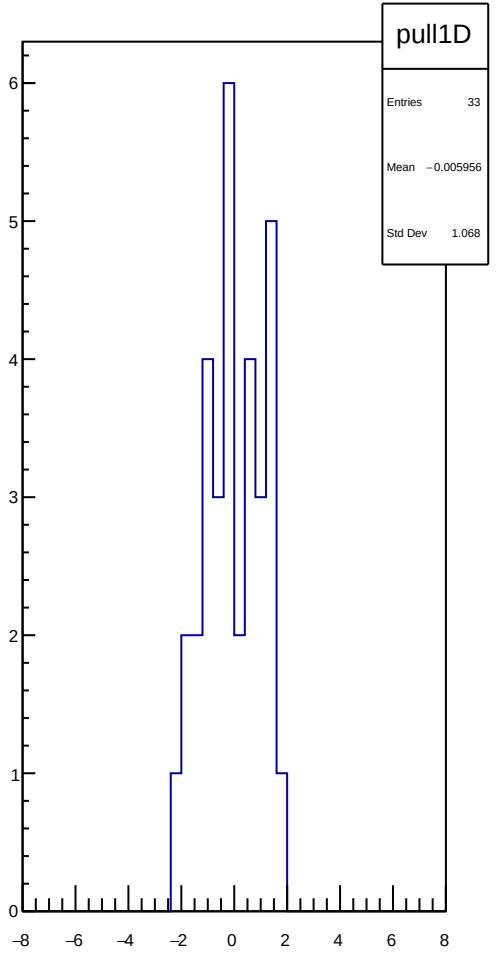

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.102e+04 / 32
p0 3571 ± 4.496
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

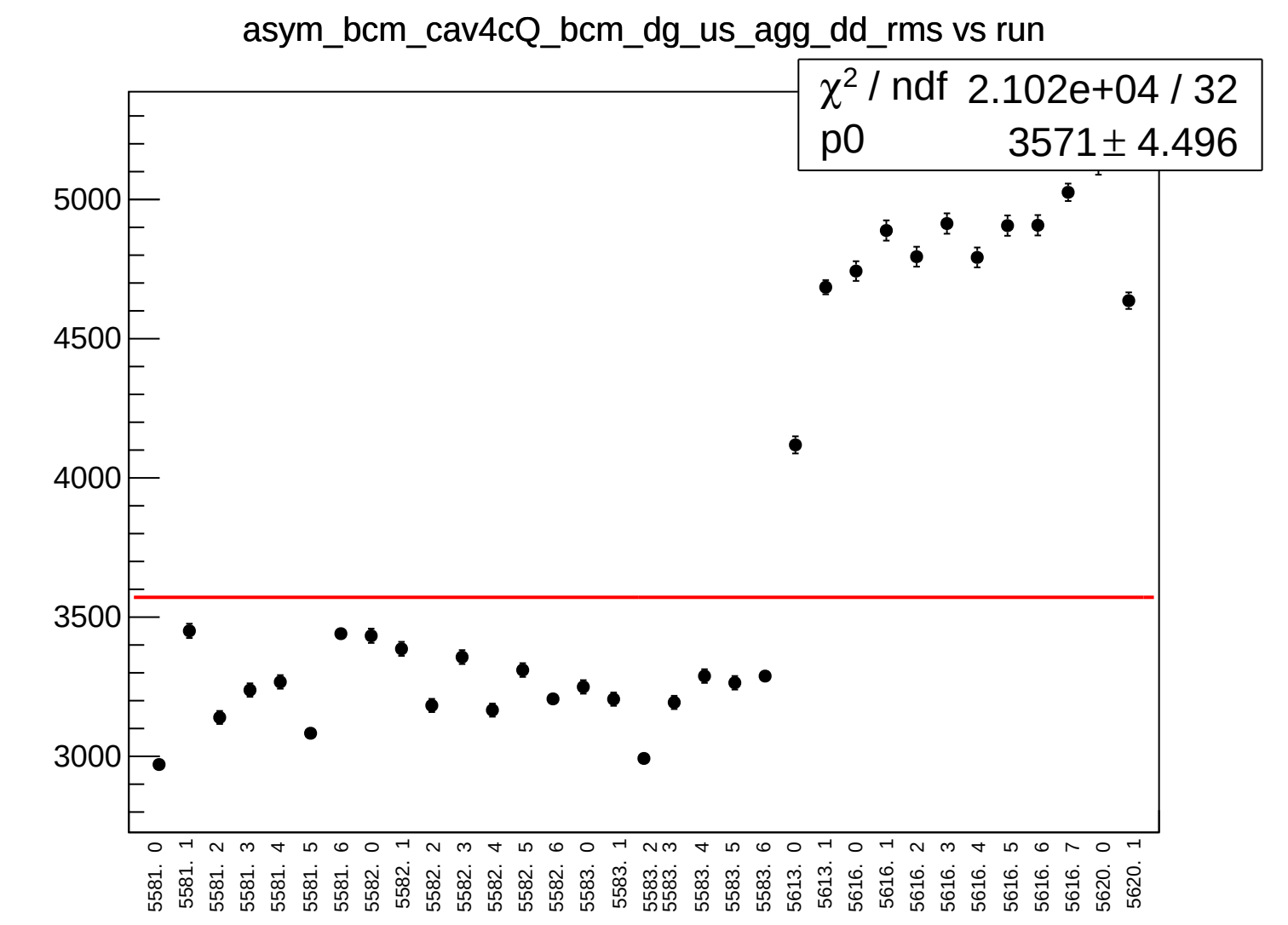

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
×10^3
χ^2 / ndf 35.95 / 32
p0 −6964 ± 6368
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 89.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

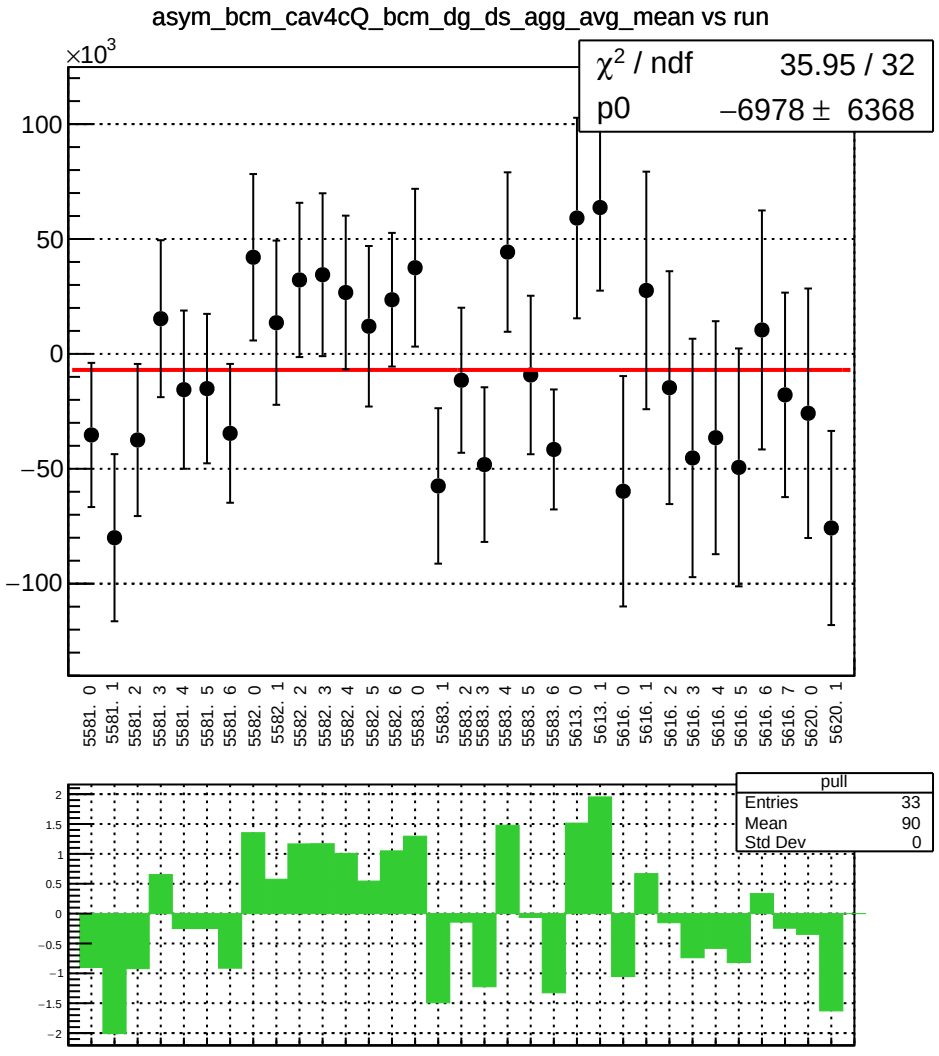

pull1D
Entries 33
Mean −0.009051
Std Dev 1.044
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

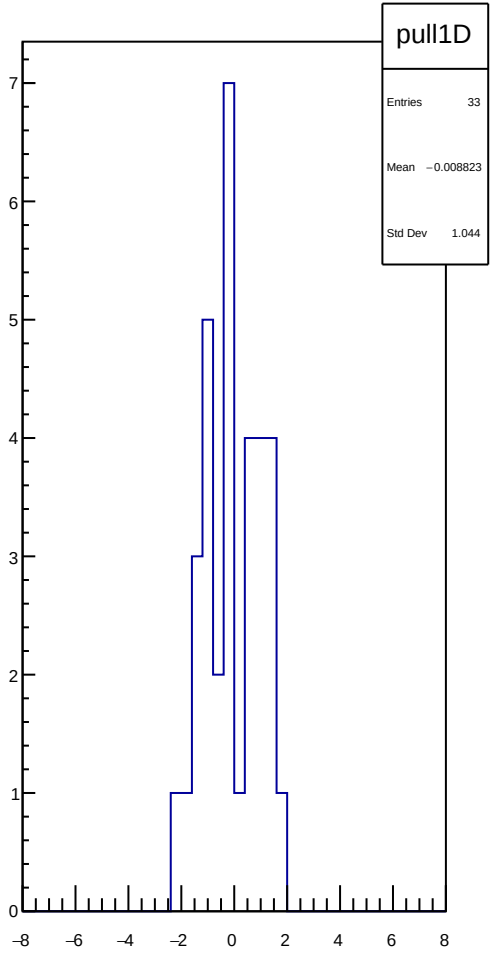

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.125e+04 / 32
p0 3576 ± 4.503
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

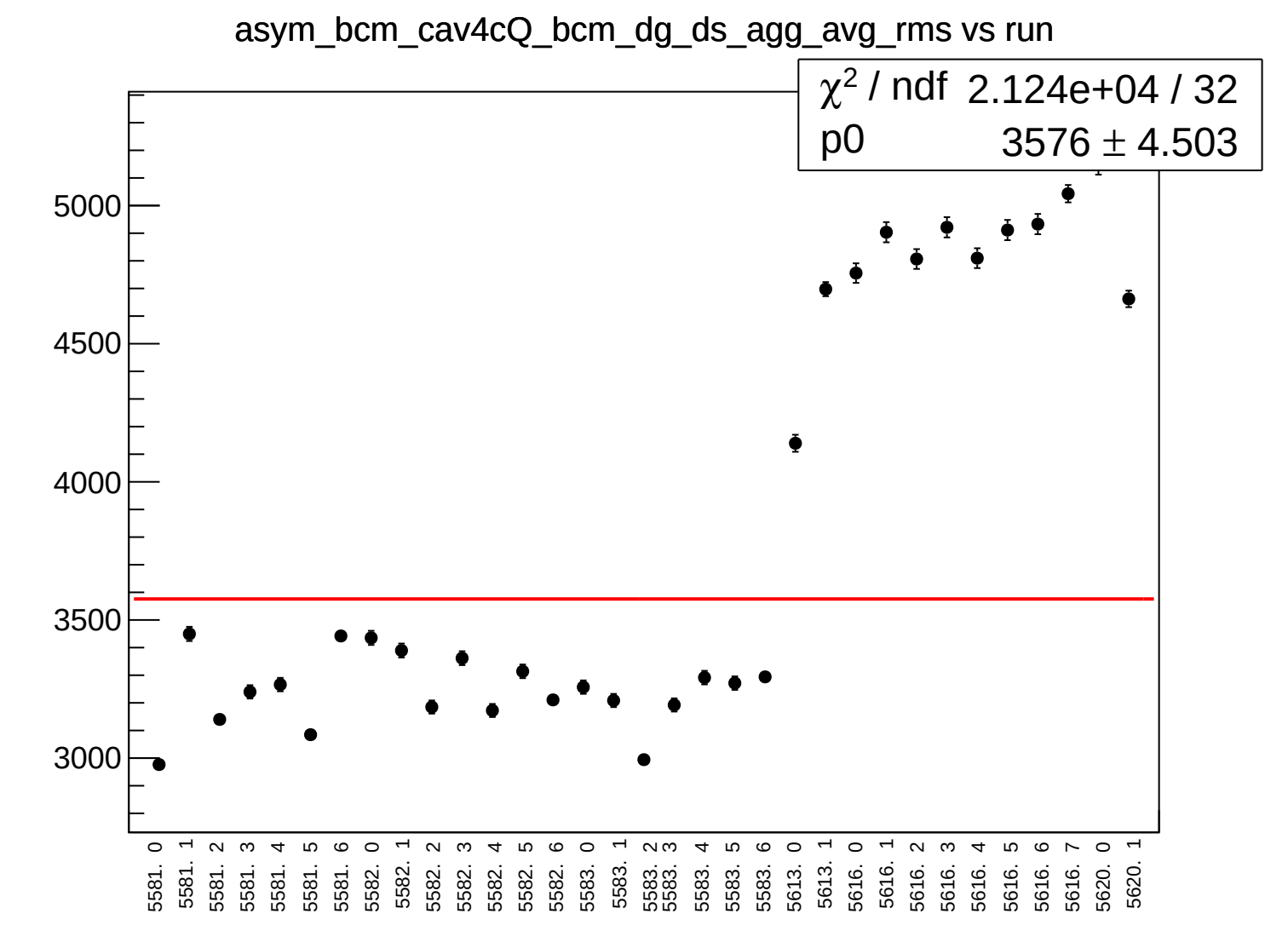

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
×10^3
χ² / ndf 37.62 / 32
p0 −8142 ± 6358
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 145.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

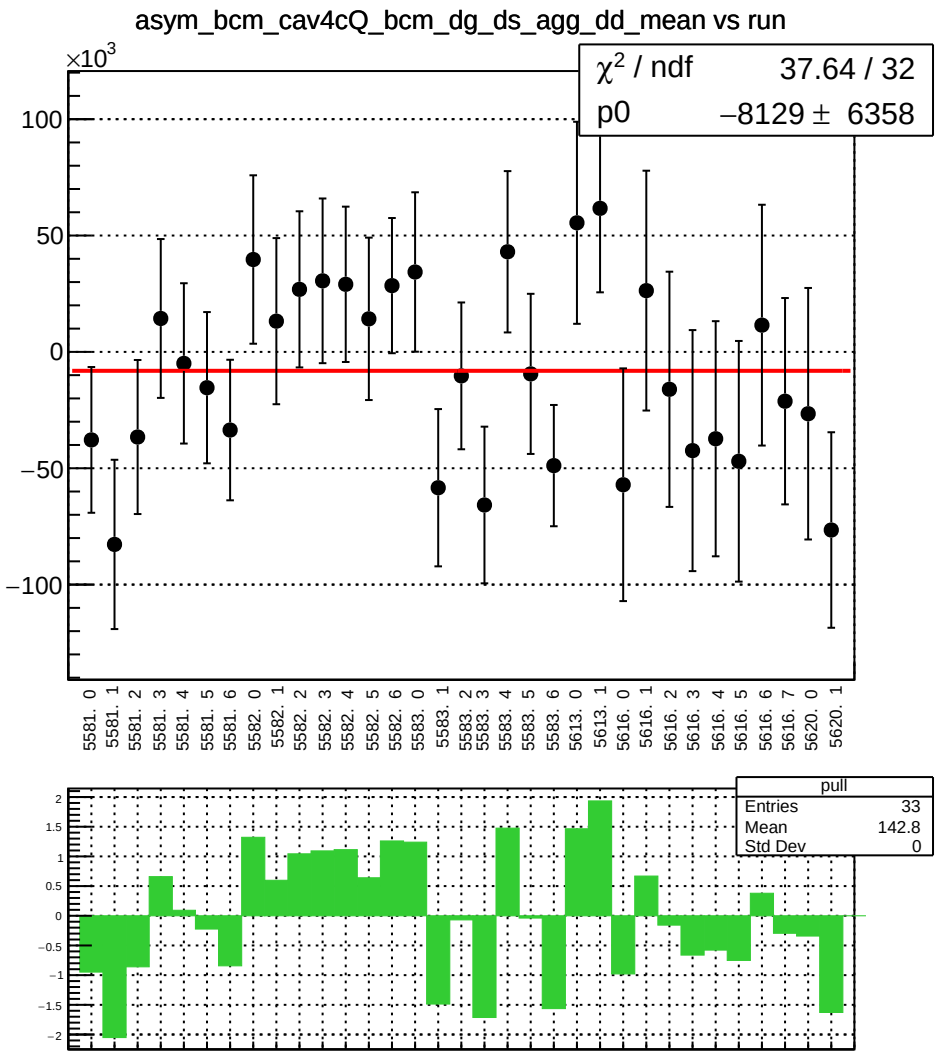

pull1D
Entries 33
Mean −0.005956
Std Dev 1.068
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

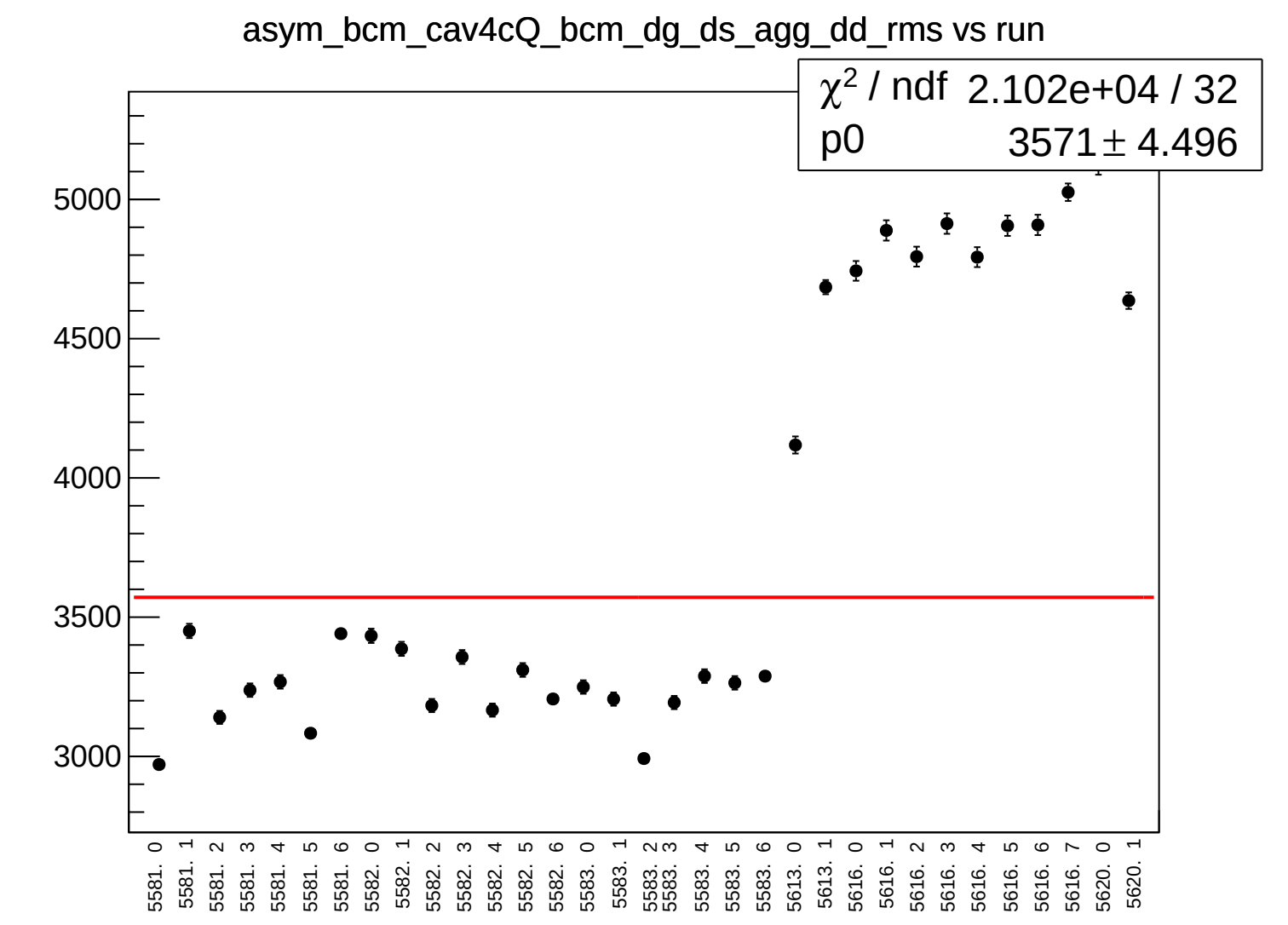

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2.102e+04 / 32
p0 3571 ± 4.496
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

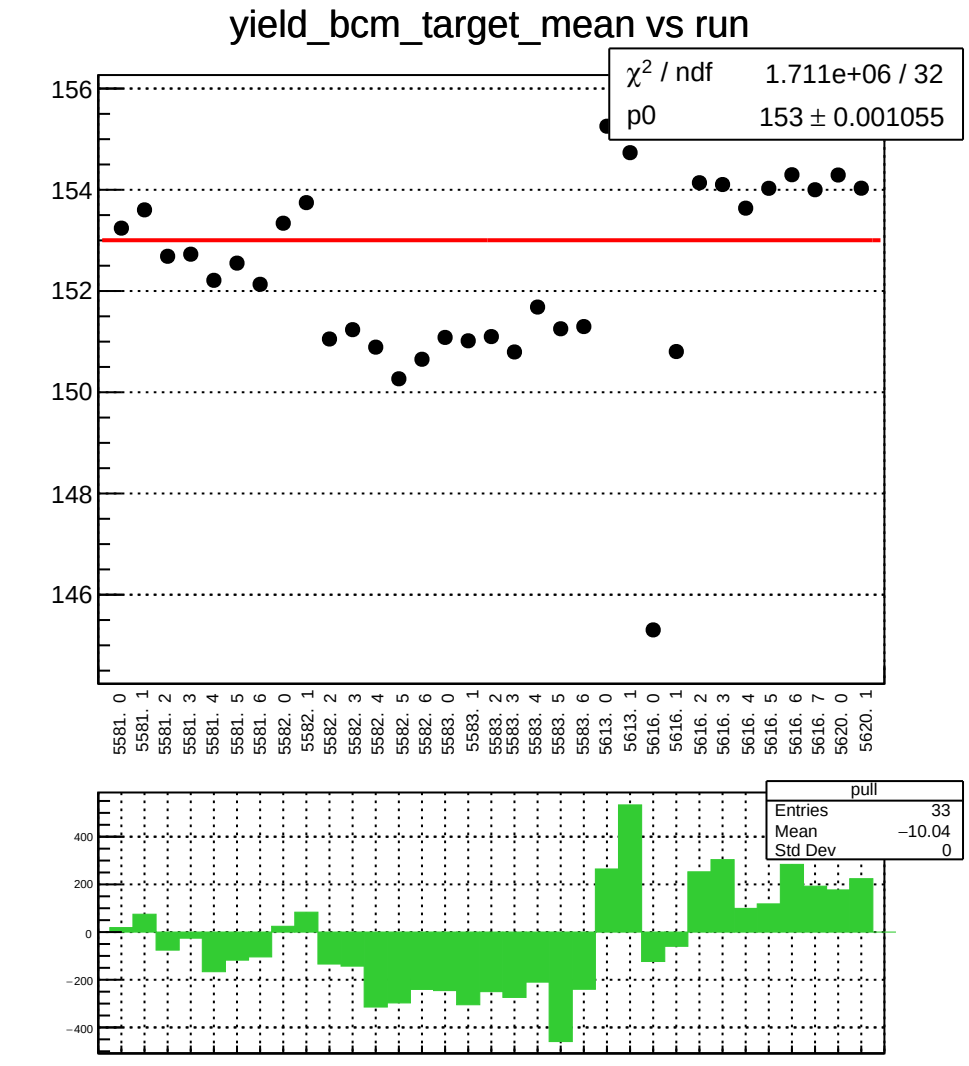

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
×10^3
χ^2 / ndf 35.95 / 32
p0 −6978 ± 6368
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 90
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

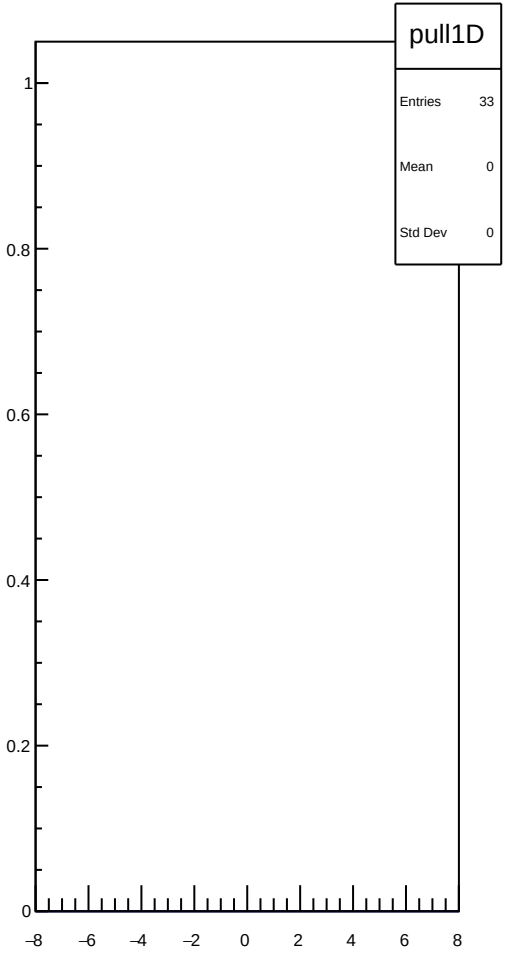

pull1D
Entries 33
Mean −0.008823
Std Dev 1.044
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

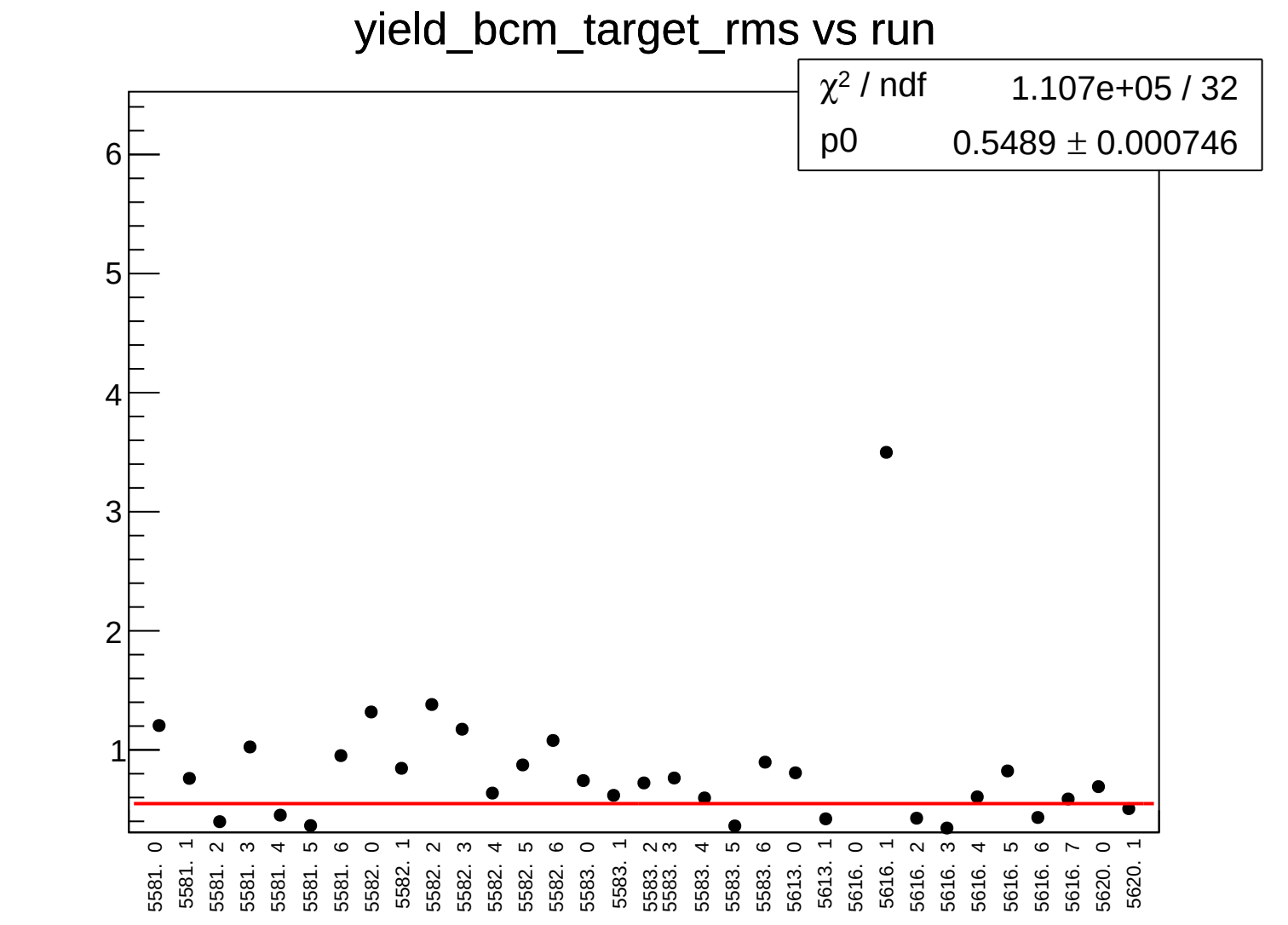

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.124e+04 / 32
p0 3576 ± 4.503
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

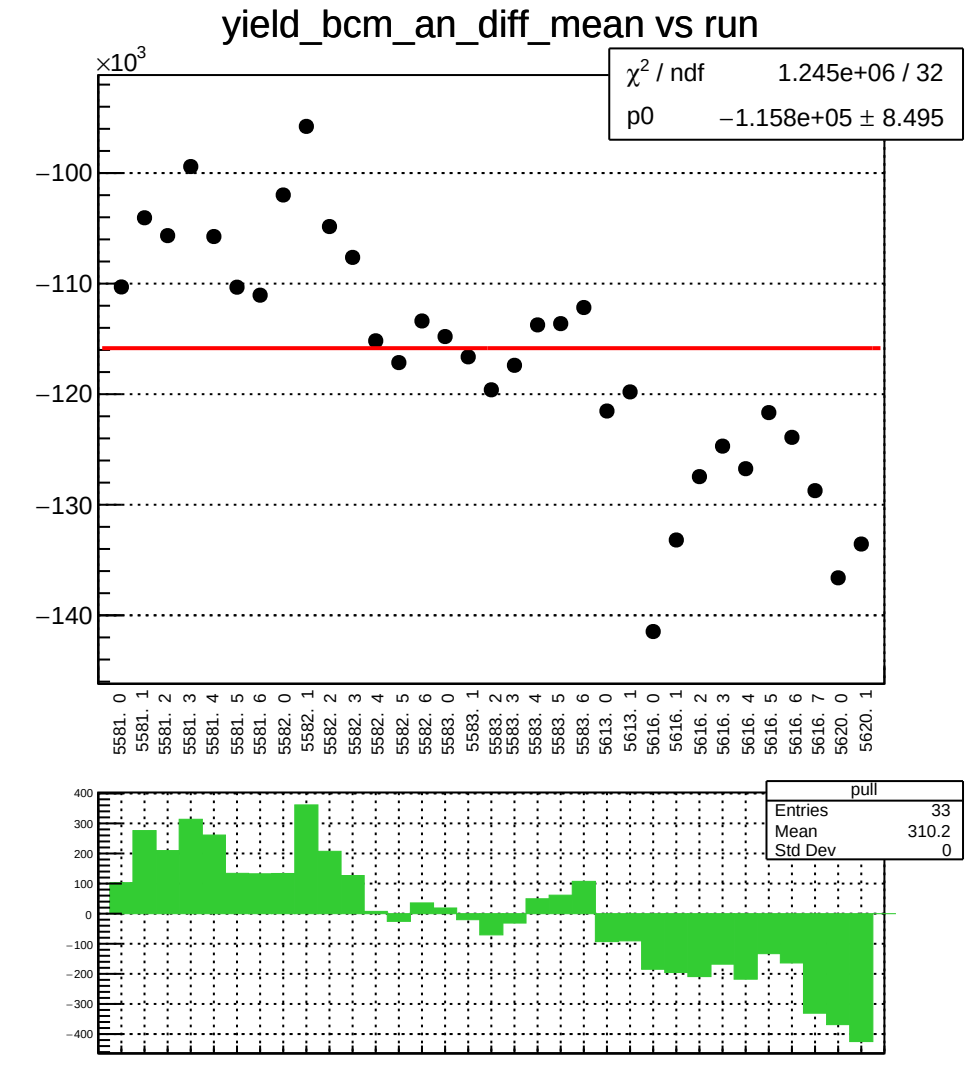

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
×10^3
χ² / ndf 37.64 / 32
p0 −8129 ± 6358
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 142.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.006177
Std Dev 1.068
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

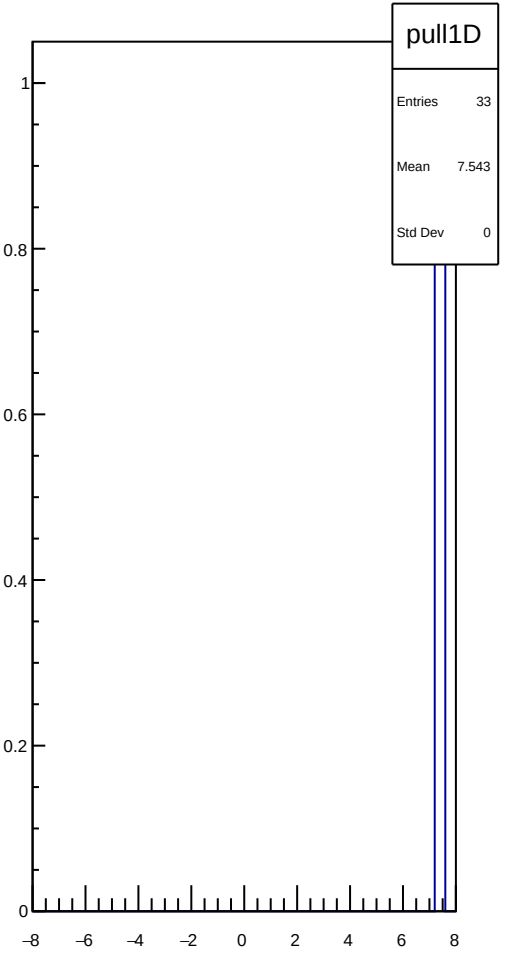

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2.102e+04 / 32
p0 3571 ± 4.496
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

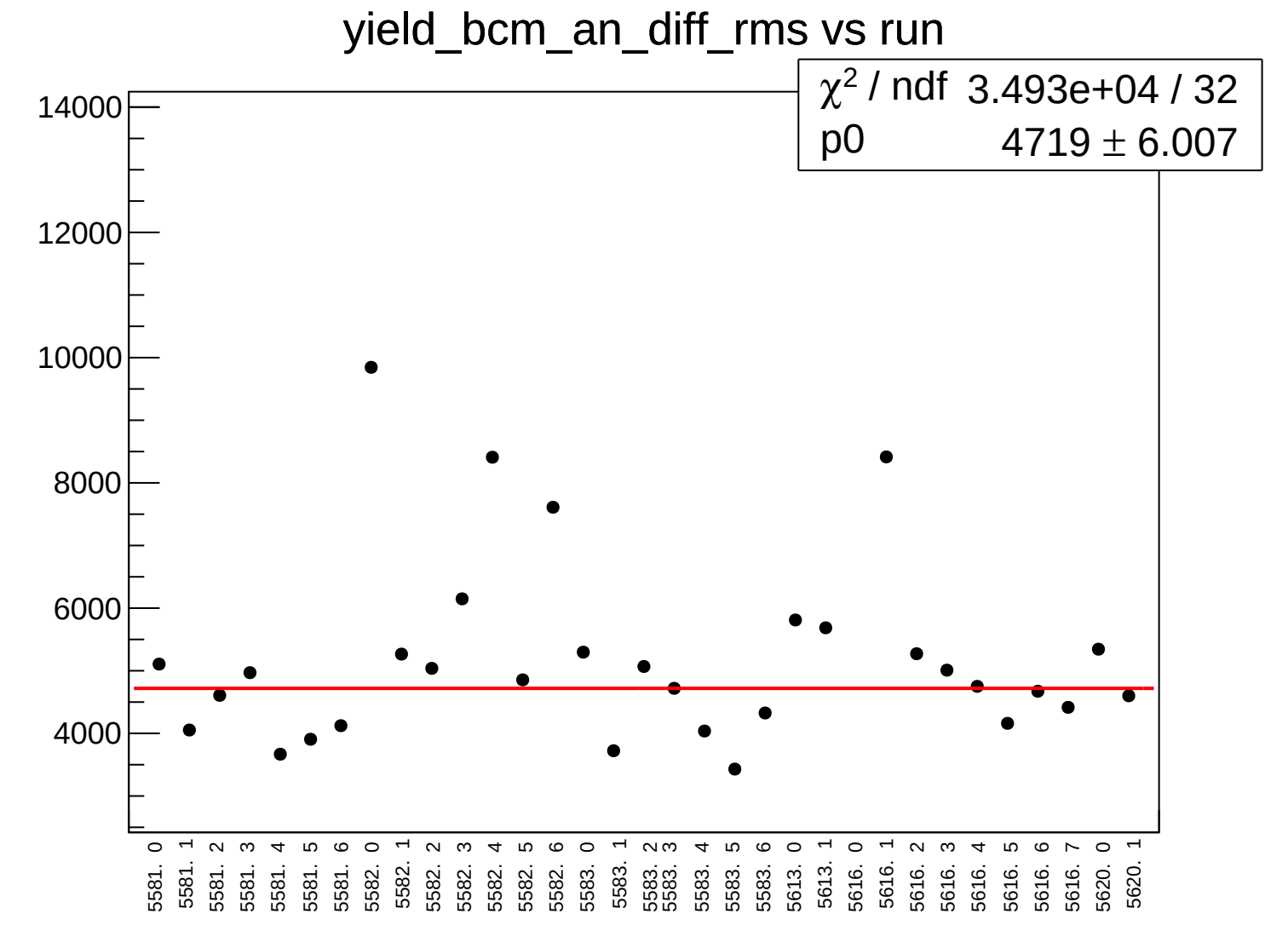

yield_bcm_target_mean vs run
χ² / ndf 1.711e+06 / 32
p0 153 ± 0.001055
156
154
152
150
148
146
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −10.04
Std Dev 0
400
200
0
−200
−400

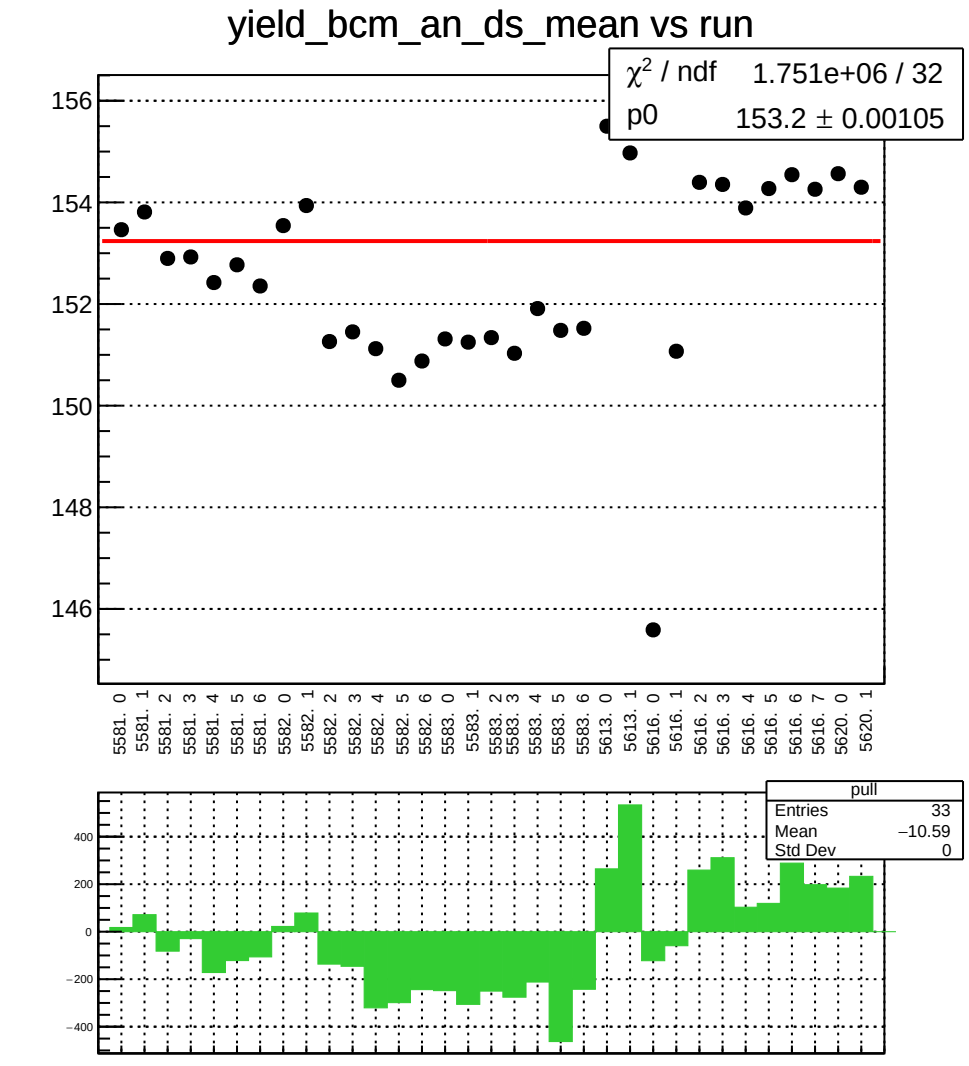

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

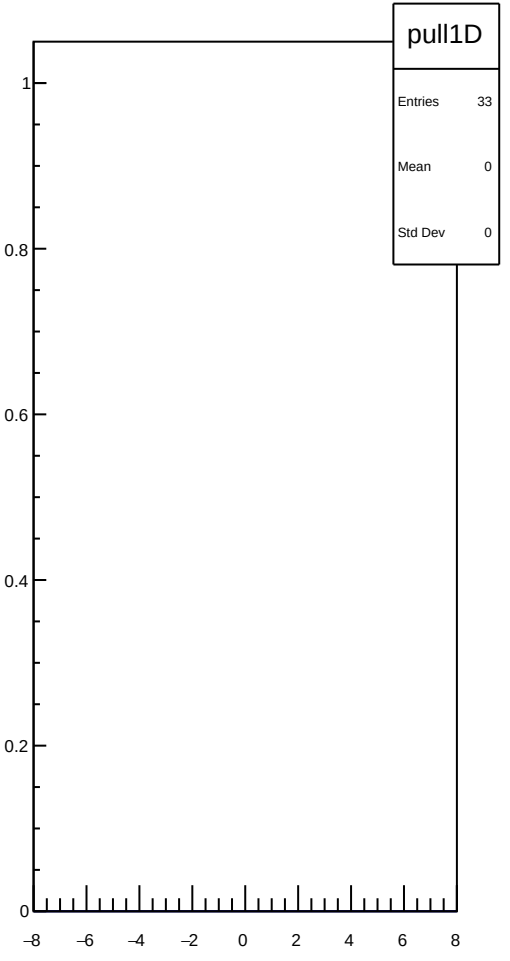

yield_bcm_target_rms vs run
χ² / ndf 1.107e+05 / 32
p0 0.5489 ± 0.000746
6
5
4
3
2
1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

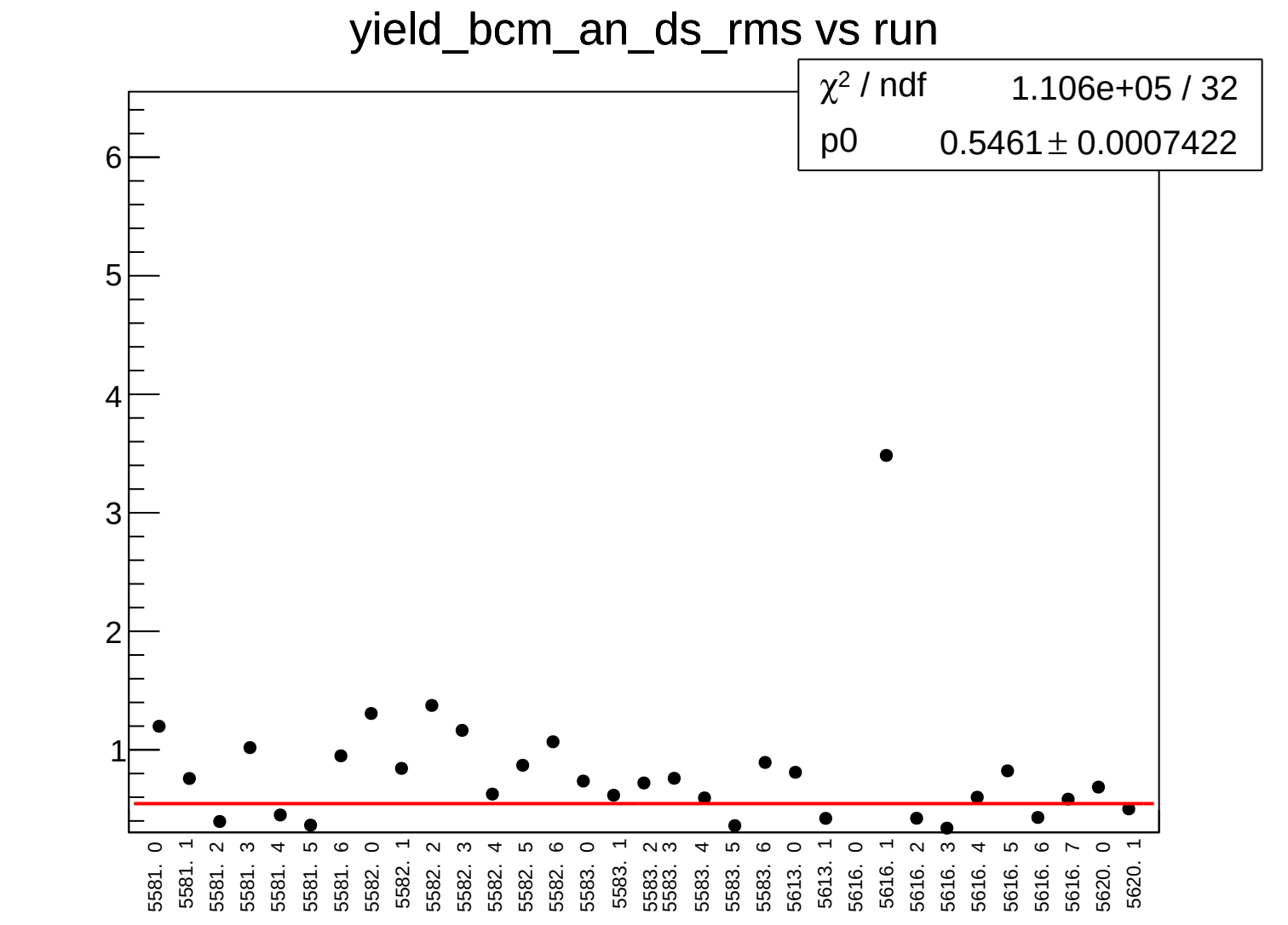

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 1.245e+06 / 32
p0 −1.158e+05 ± 8.495
−100
−110
−120
−130
−140
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 310.2
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

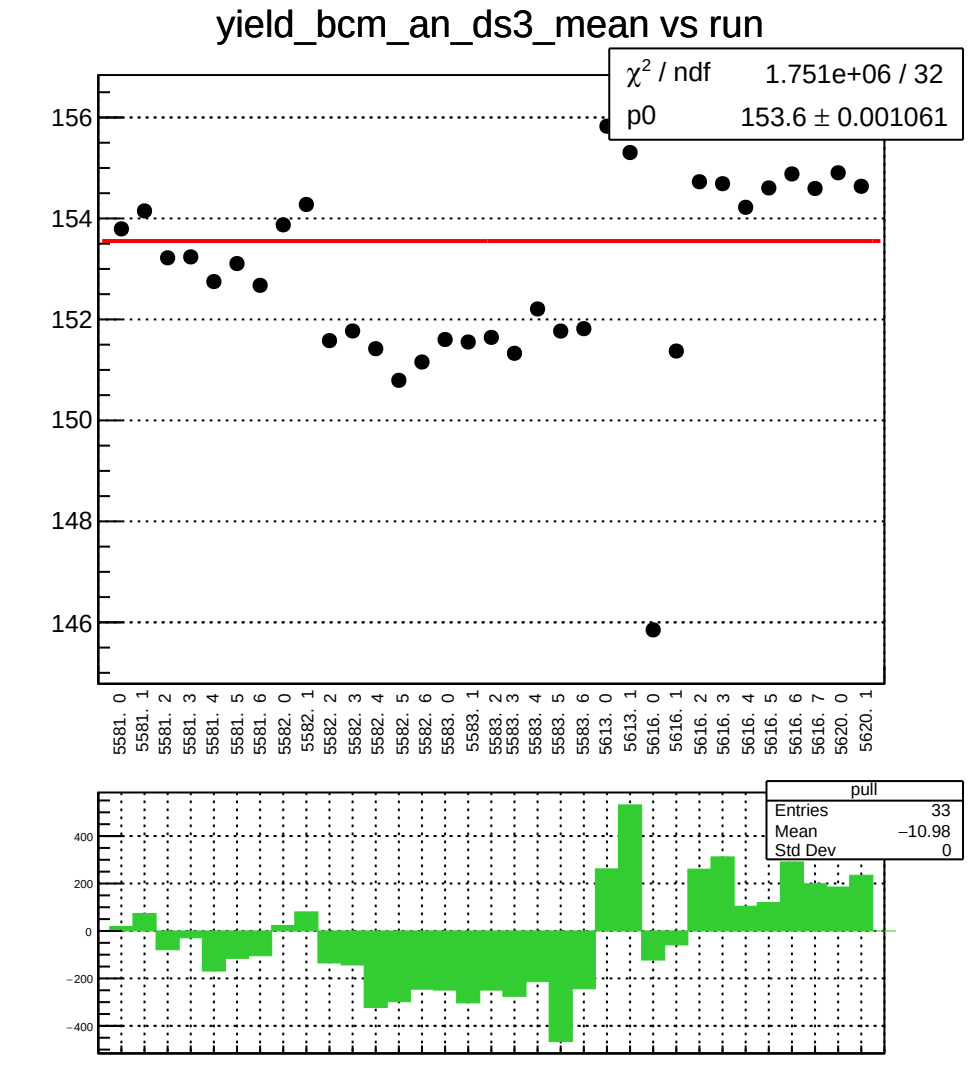

pull1D
Entries 33
Mean 7.543
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

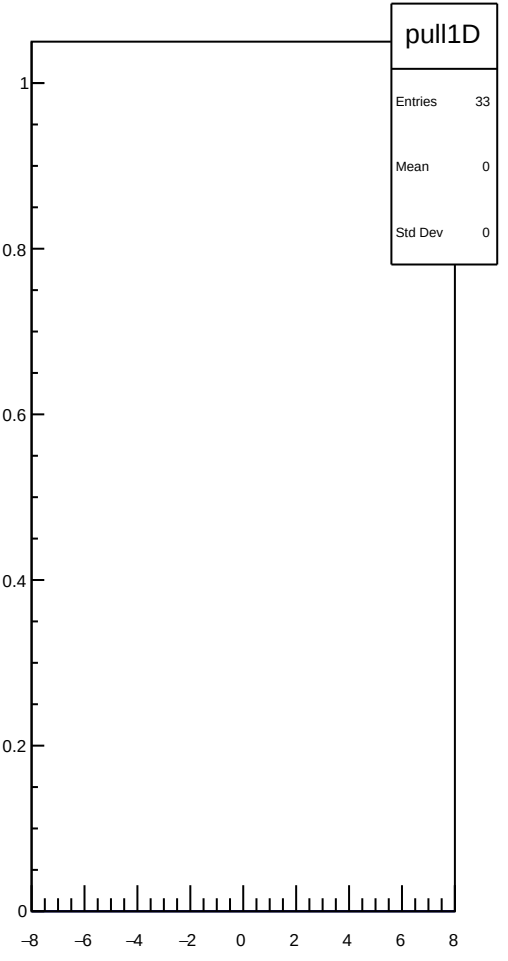

yield_bcm_an_diff_rms vs run
χ² / ndf 3.493e+04 / 32
p0 4719 ± 6.007
14000
12000
10000
8000
6000
4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

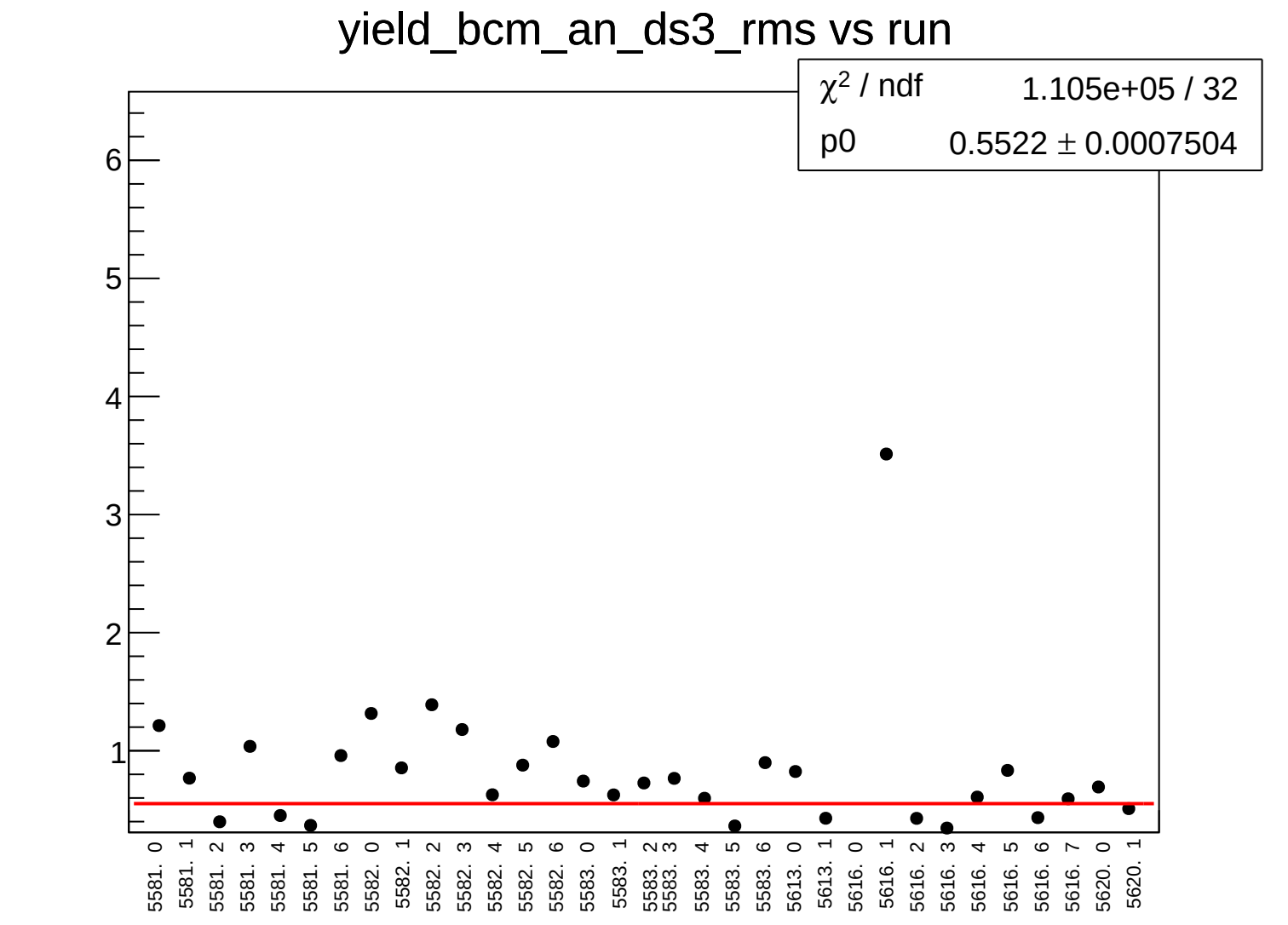

yield_bcm_an_ds_mean vs run
χ² / ndf 1.751e+06 / 32
p0 153.2 ± 0.00105
156
154
152
150
148
146
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −10.59
Std Dev 0
400
200
0
−200
−400

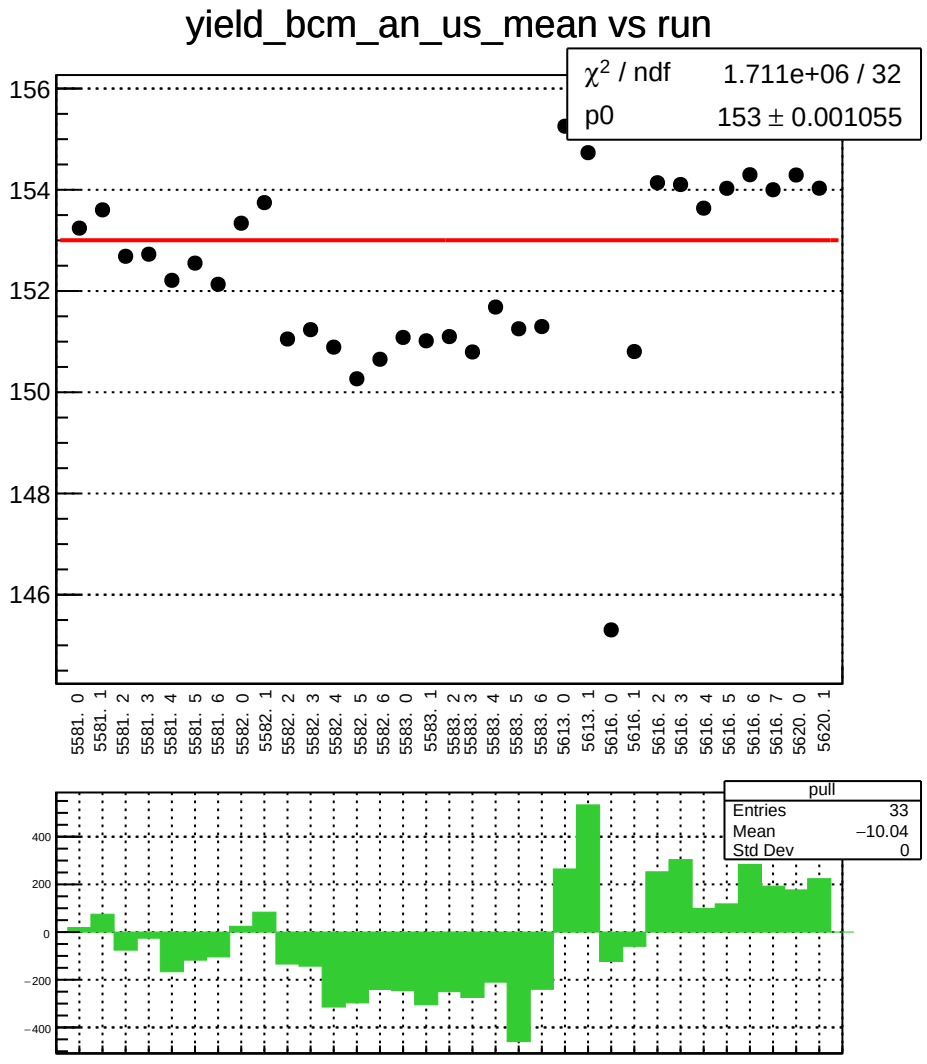

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

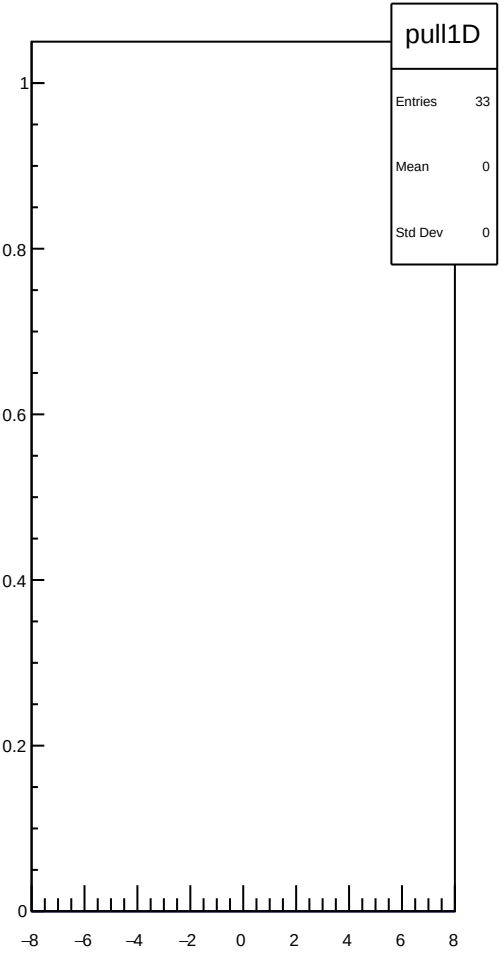

yield_bcm_an_ds_rms vs run
χ² / ndf 1.106e+05 / 32
p0 0.5461 ± 0.0007422
6
5
4
3
2
1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

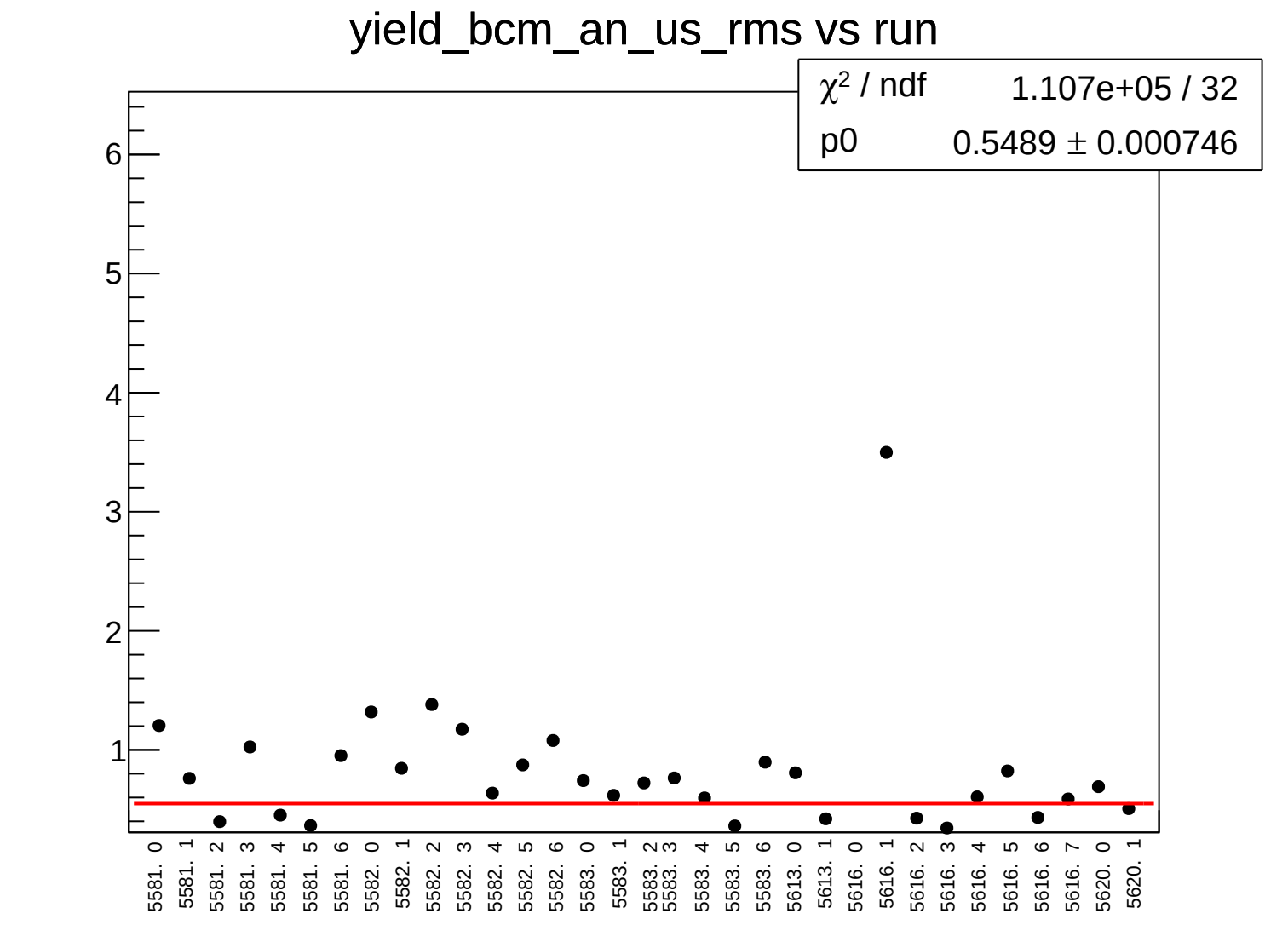

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.751e+06 / 32
p0 153.6 ± 0.001061
156
154
152
150
148
146
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −10.98
Std Dev 0
400
200
0
−200
−400

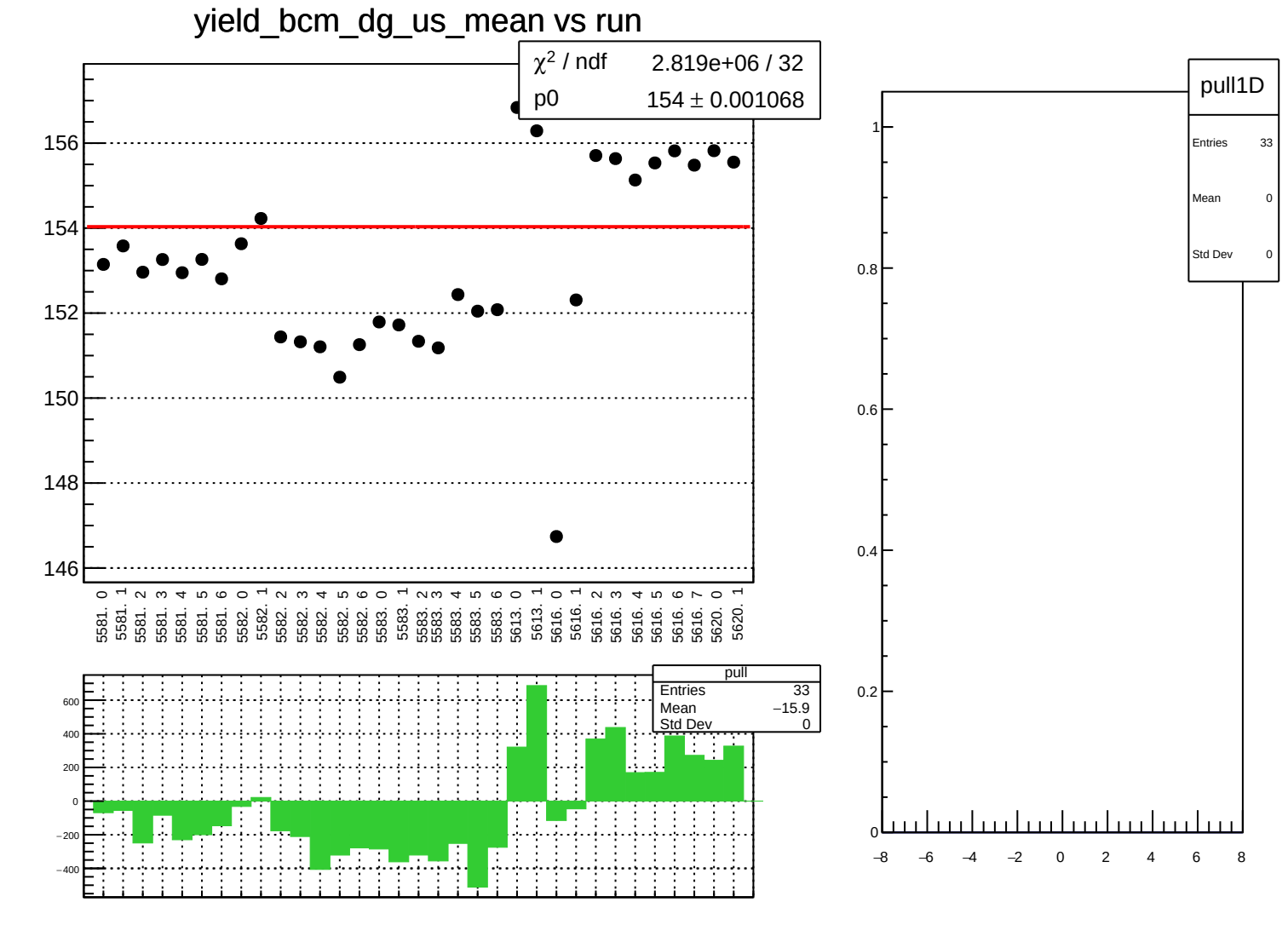

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

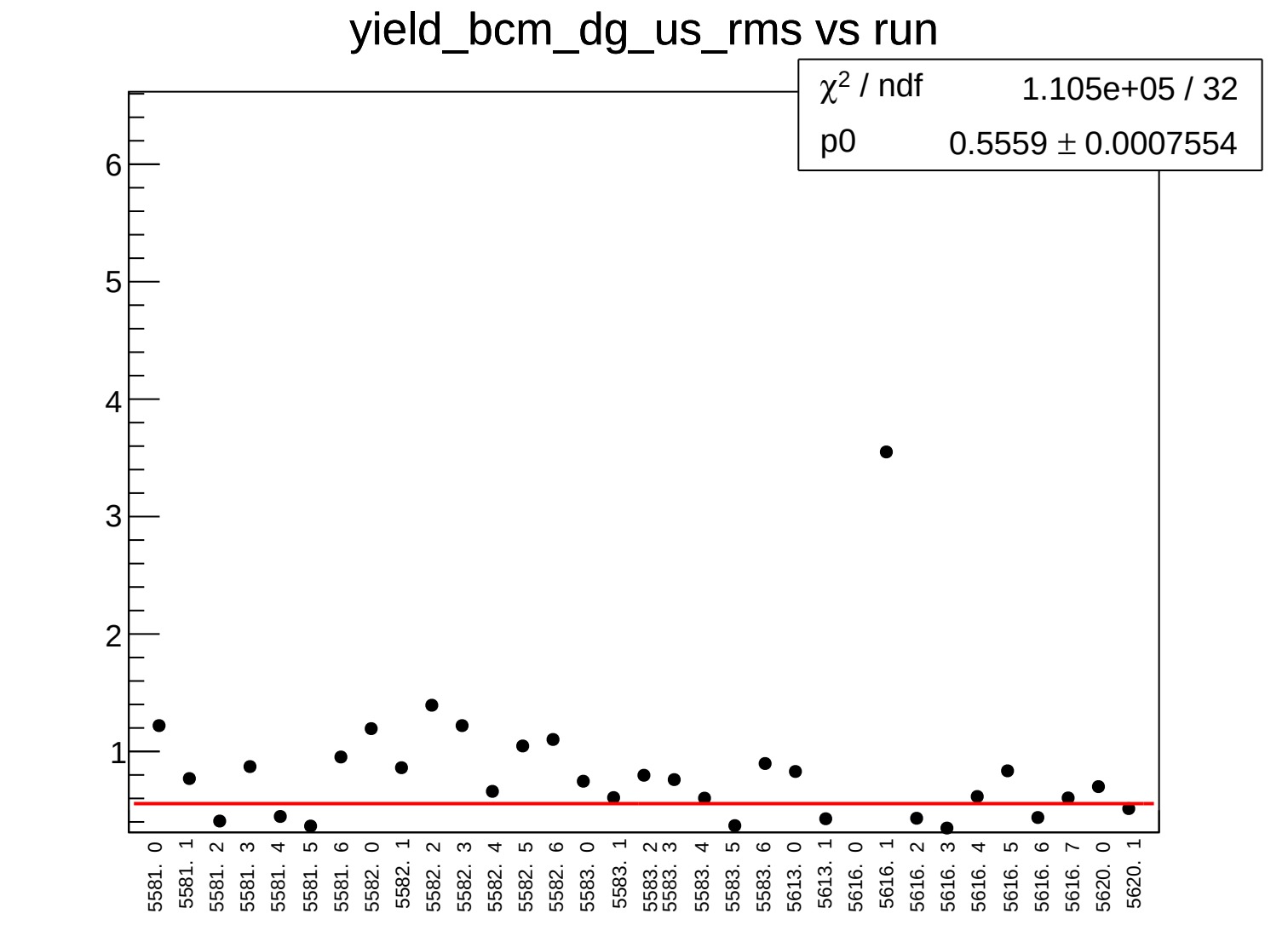

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.105e+05 / 32
p0 0.5522 ± 0.0007504
6
5
4
3
2
1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

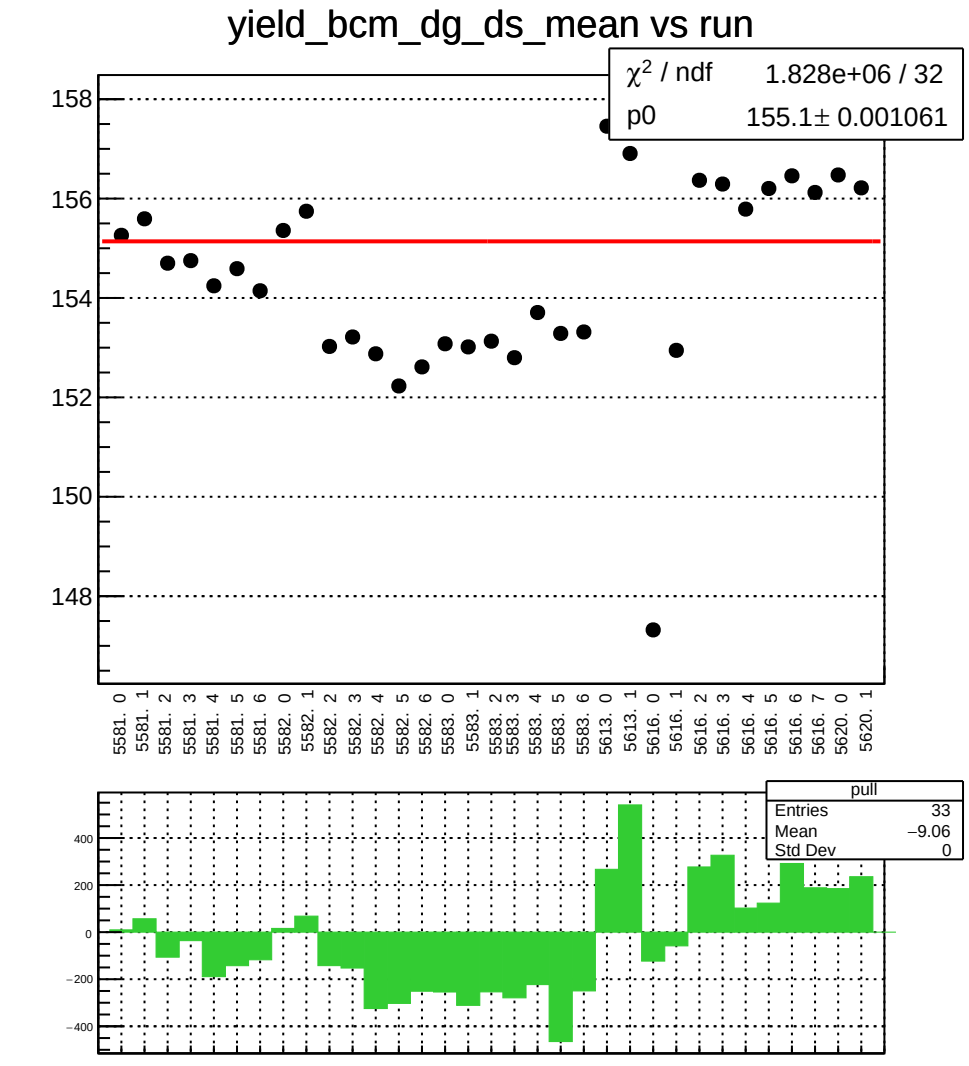

yield_bcm_an_us_mean vs run
χ² / ndf 1.711e+06 / 32
p0 153 ± 0.001055
156
154
152
150
148
146
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −10.04
Std Dev 0
400
200
0
−200
−400

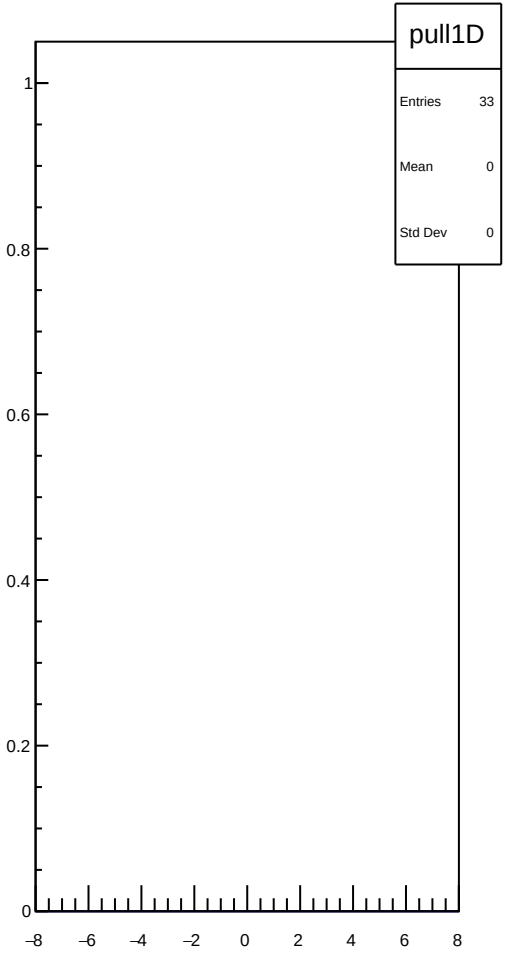

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

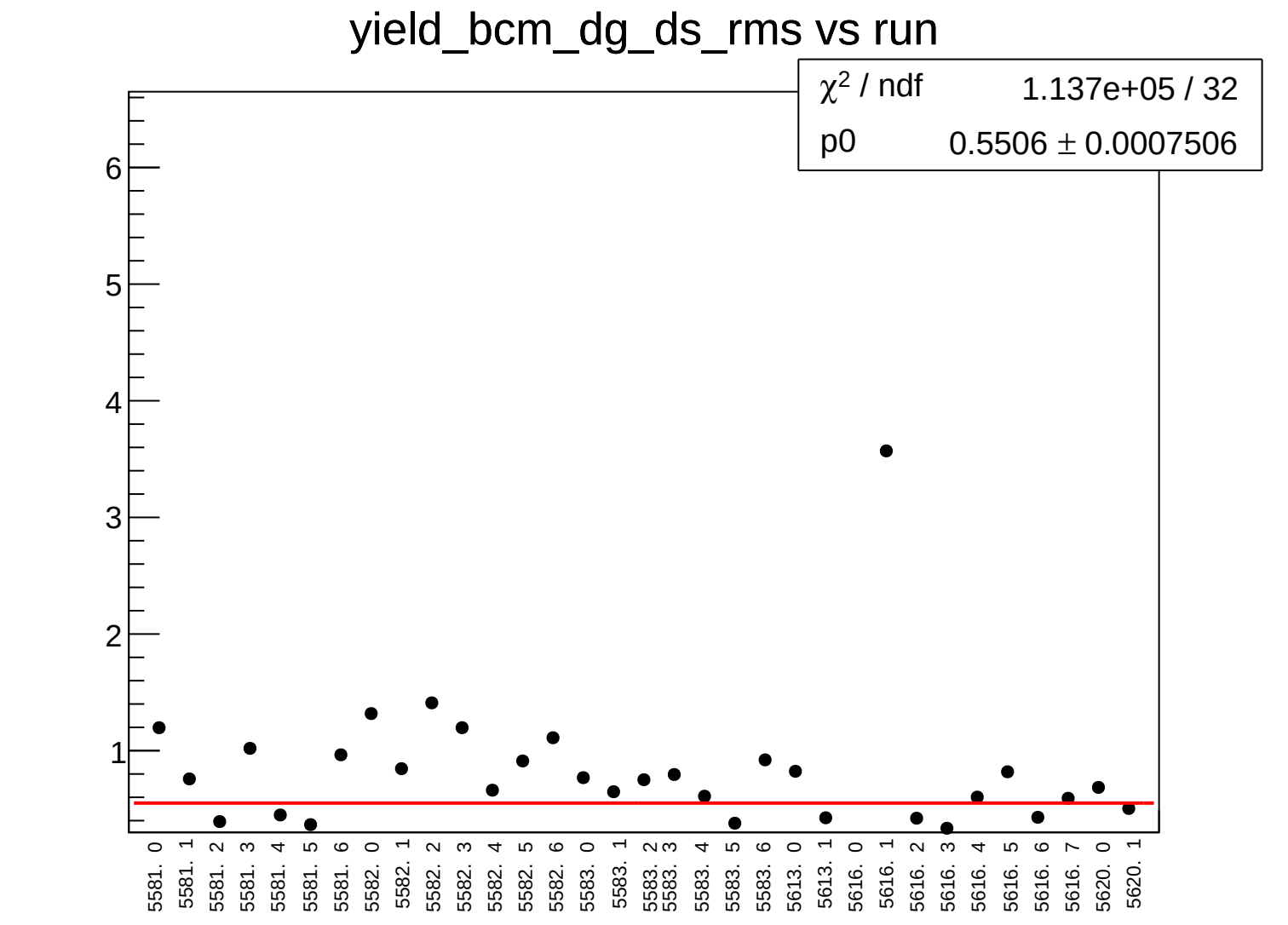

yield_bcm_an_us_rms vs run
χ² / ndf 1.107e+05 / 32
p0 0.5489 ± 0.000746
6
5
4
3
2
1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

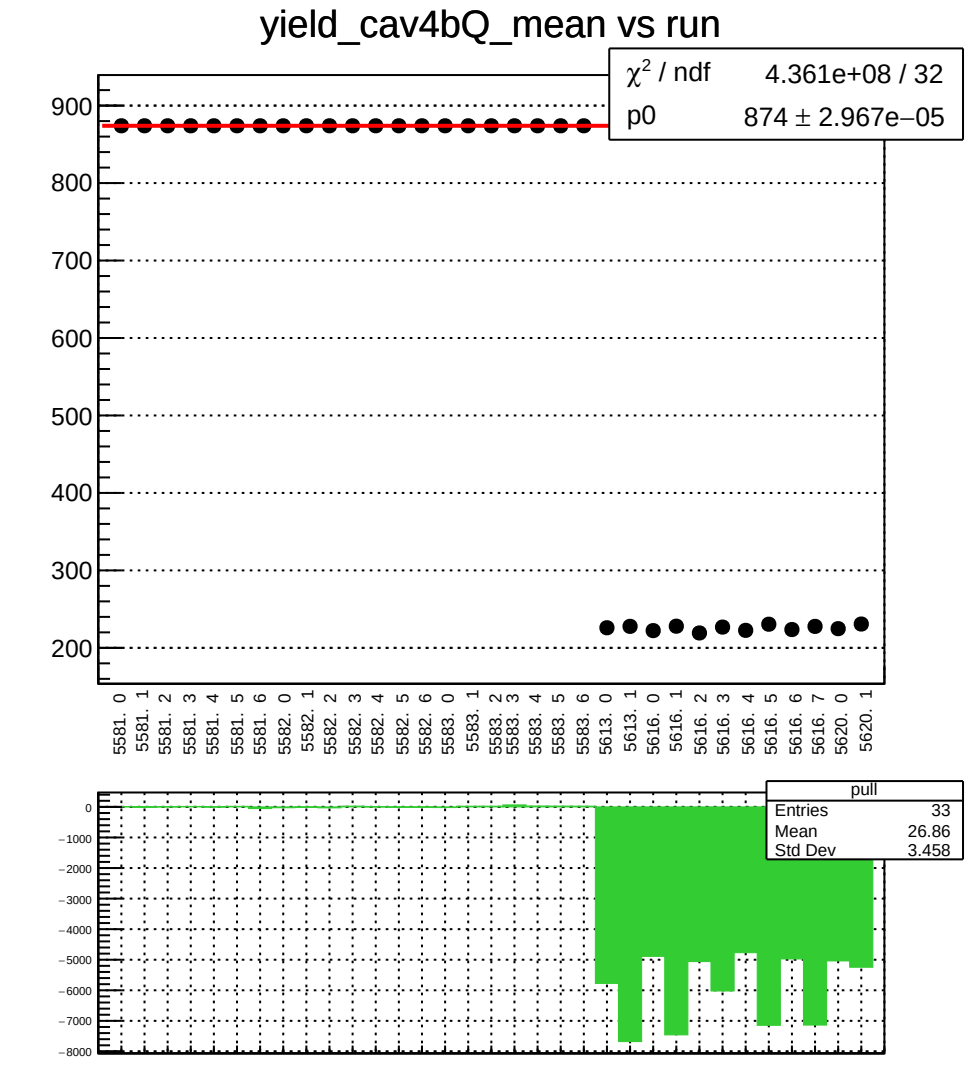

yield_bcm_dg_us_mean vs run
χ² / ndf 2.819e+06 / 32
p0 154 ± 0.001068
156
154
152
150
148
146
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −15.9
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

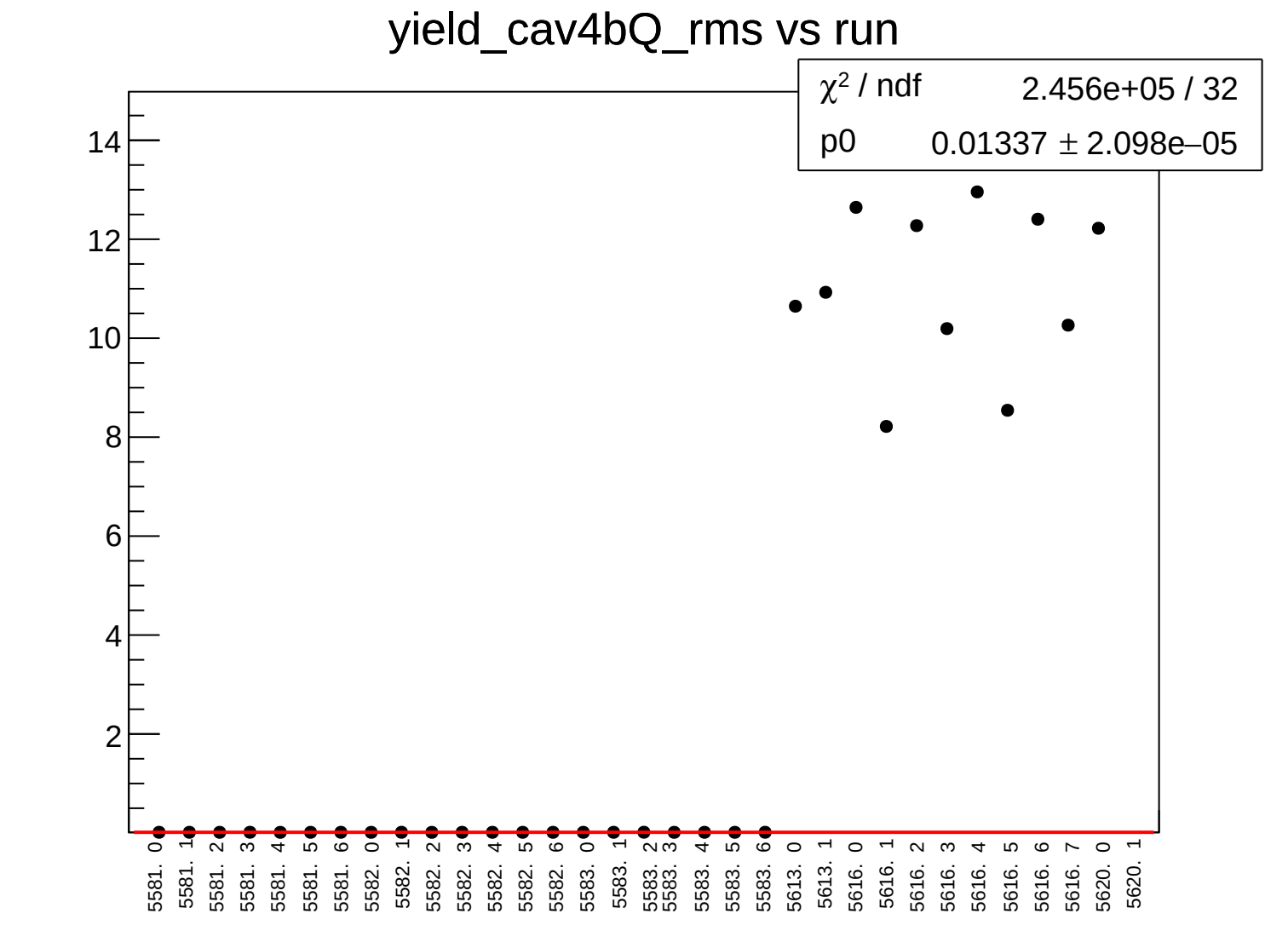

yield_bcm_dg_us_rms vs run
χ² / ndf 1.105e+05 / 32
p0 0.5559 ± 0.0007554
6
5
4
3
2
1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

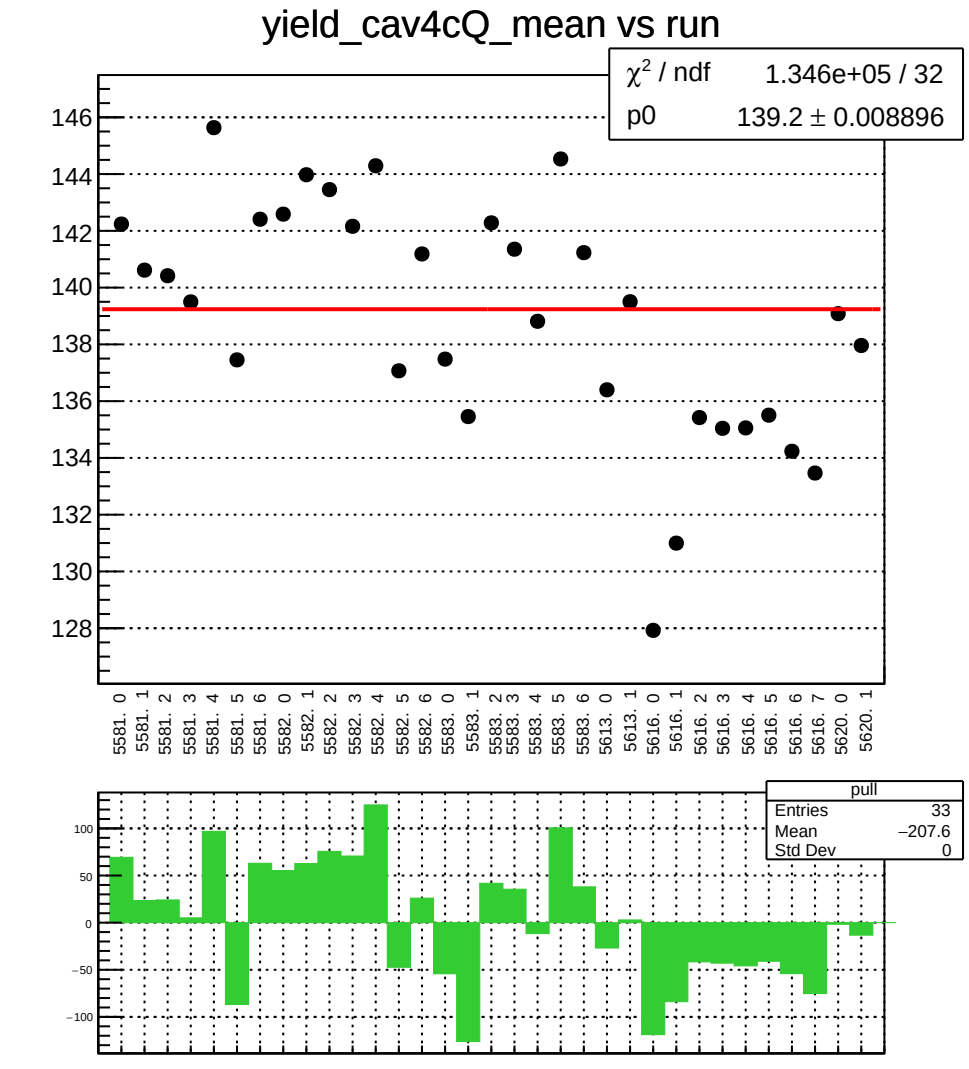

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.828e+06 / 32
p0 155.1± 0.001061
158
156
154
152
150
148
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −9.06
Std Dev 0
400
200
0
−200
−400

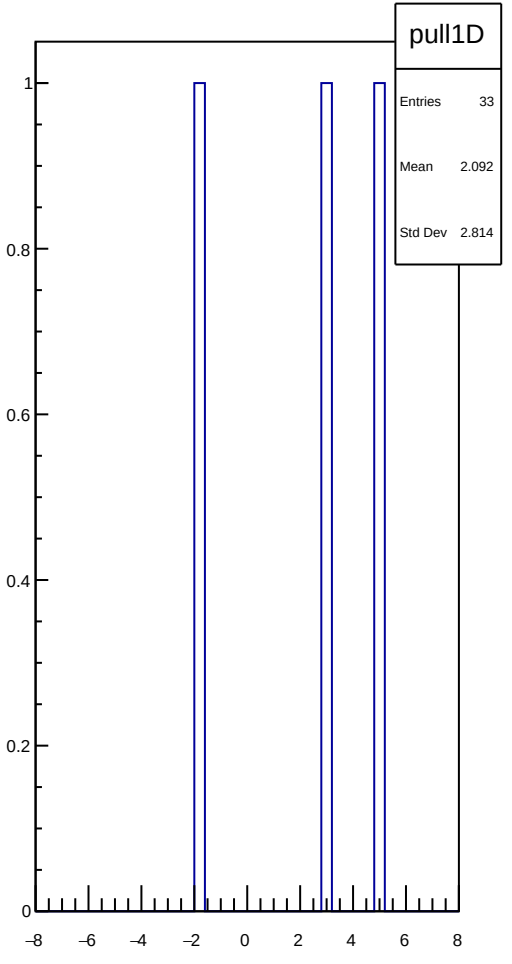

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

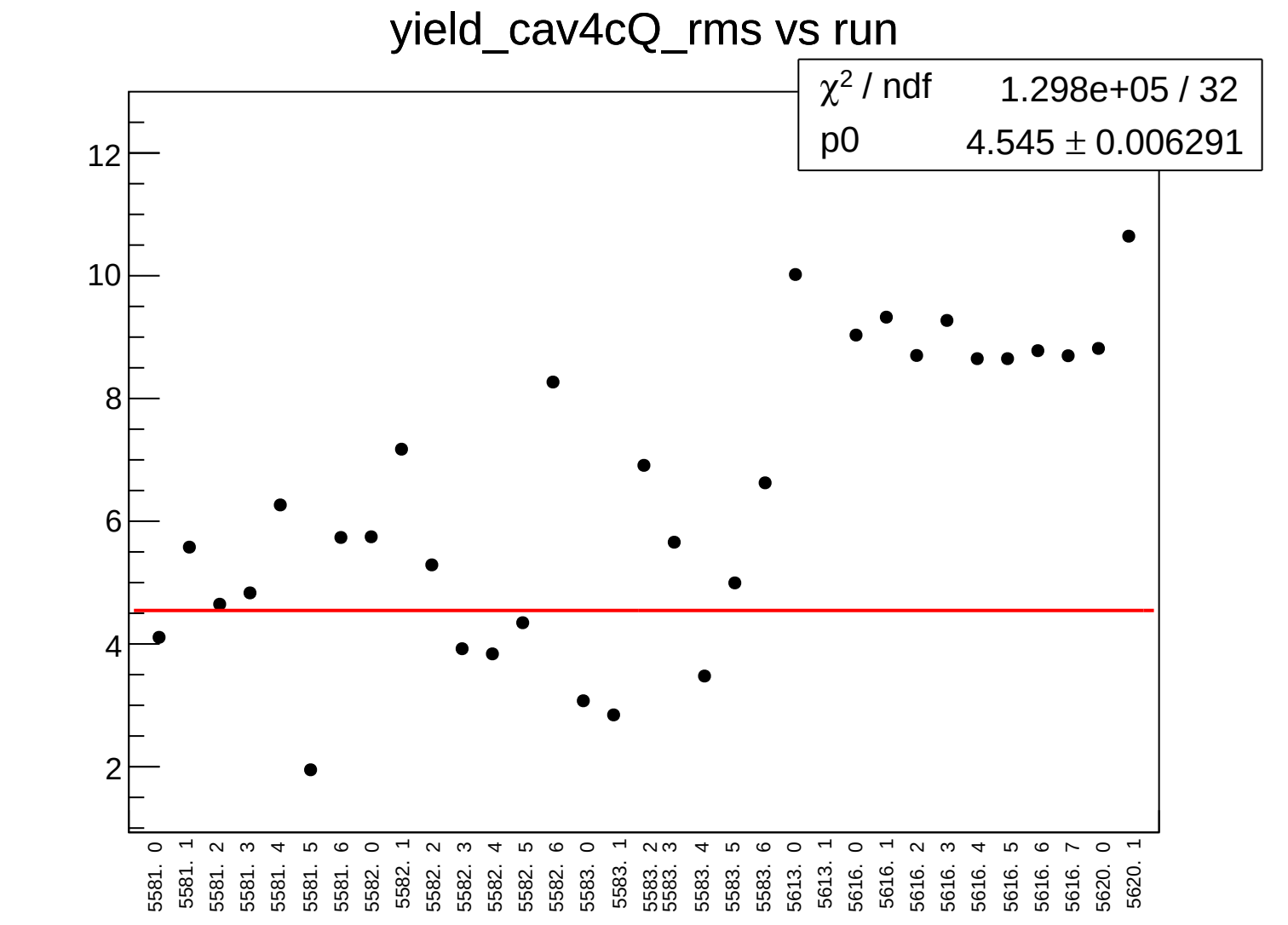

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.137e+05 / 32
p0 0.5506 ± 0.0007506
6
5
4
3
2
1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

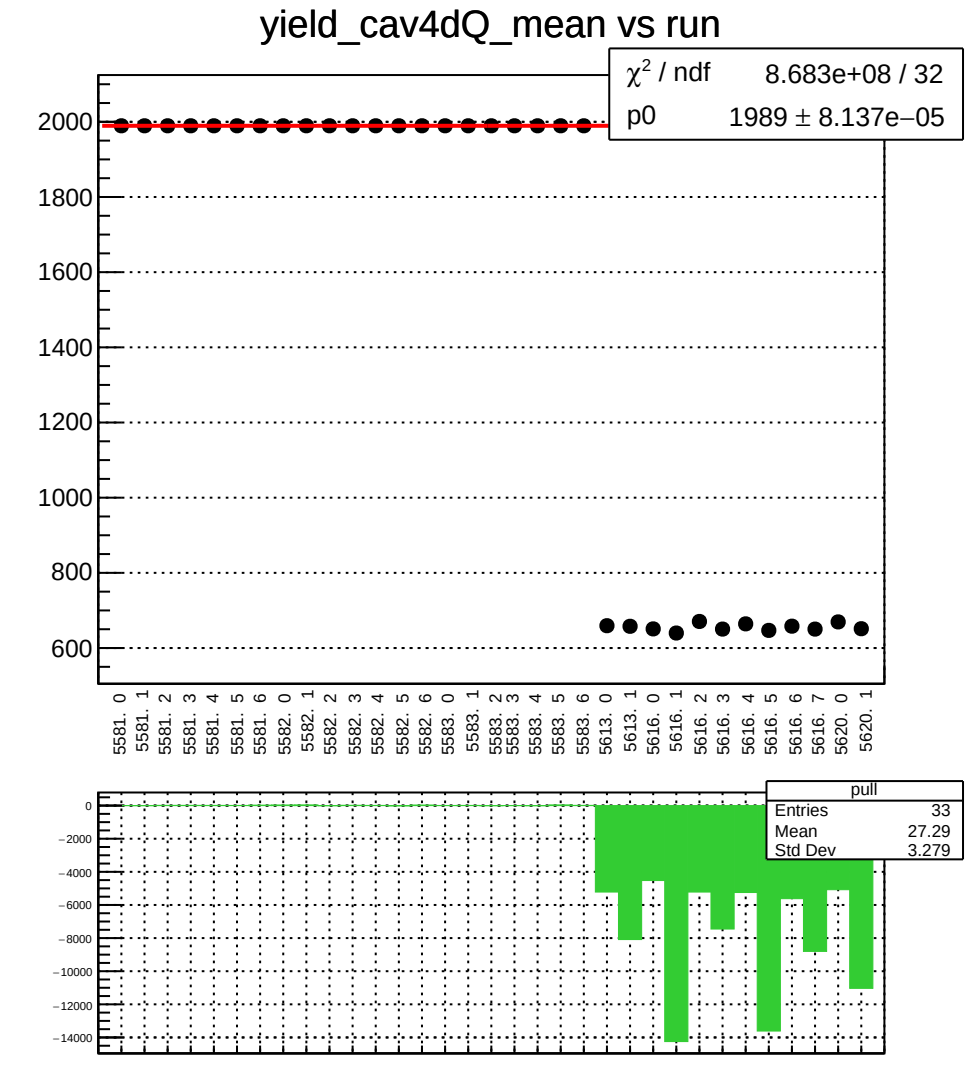

yield_cav4bQ_mean vs run
χ² / ndf 4.361e+08 / 32
p0 874 ± 2.967e−05
900
800
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.86
Std Dev 3.458
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000
−8000
pull1D
Entries 33
Mean 4.147
Std Dev 2.376
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

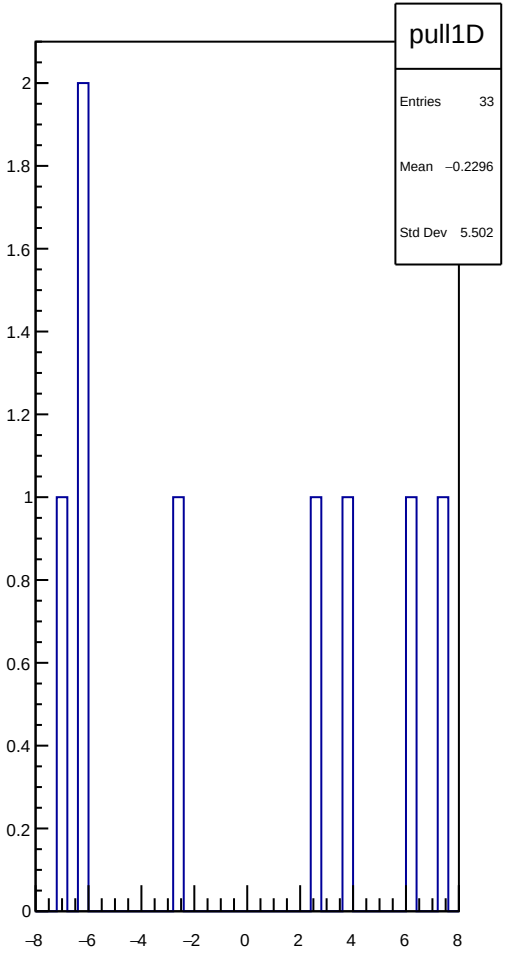

yield_cav4bQ_rms vs run
χ² / ndf 2.456e+05 / 32
p0 0.01337 ± 2.098e–05
14
12
10
8
6
4
2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

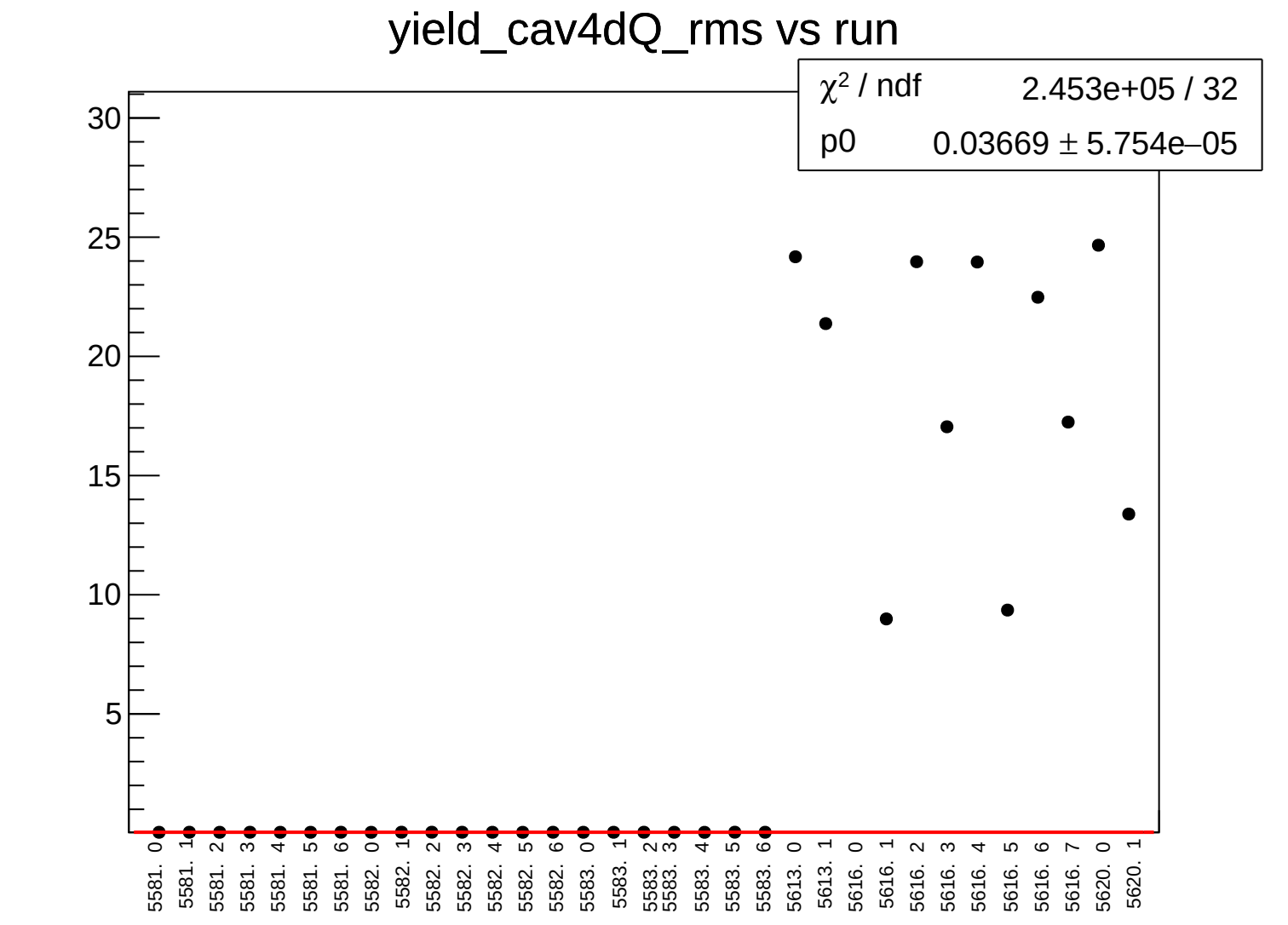

yield_cav4cQ_mean vs run
χ² / ndf 1.346e+05 / 32
p0 139.2 ± 0.008896
146
144
142
140
138
136
134
132
130
128
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −207.6
Std Dev 0
100
50
0
−50
−100

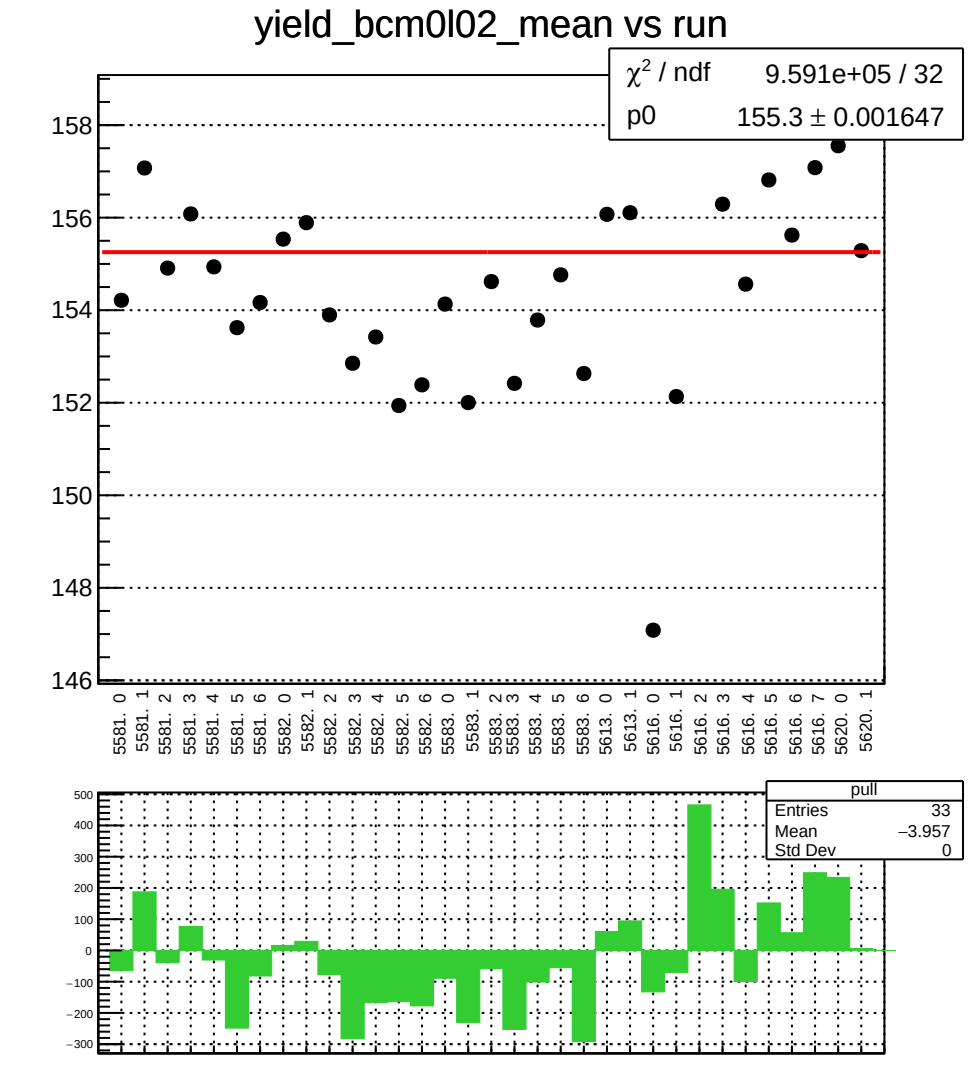

pull1D
Entries 33
Mean 2.092
Std Dev 2.814
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

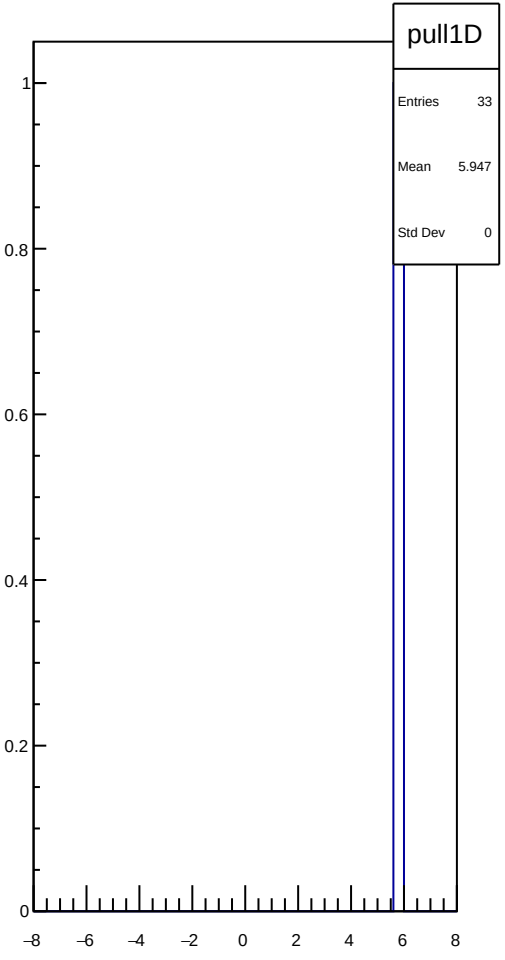

yield_cav4cQ_rms vs run
χ^2 / ndf 1.298e+05 / 32
p0 4.545 ± 0.006291
12
10
8
6
4
2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1


yield_cav4dQ_mean vs run
χ² / ndf 8.683e+08 / 32
p0 1989 ± 8.137e−05
2000
1800
1600
1400
1200
1000
800
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.29
Std Dev 3.279
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000

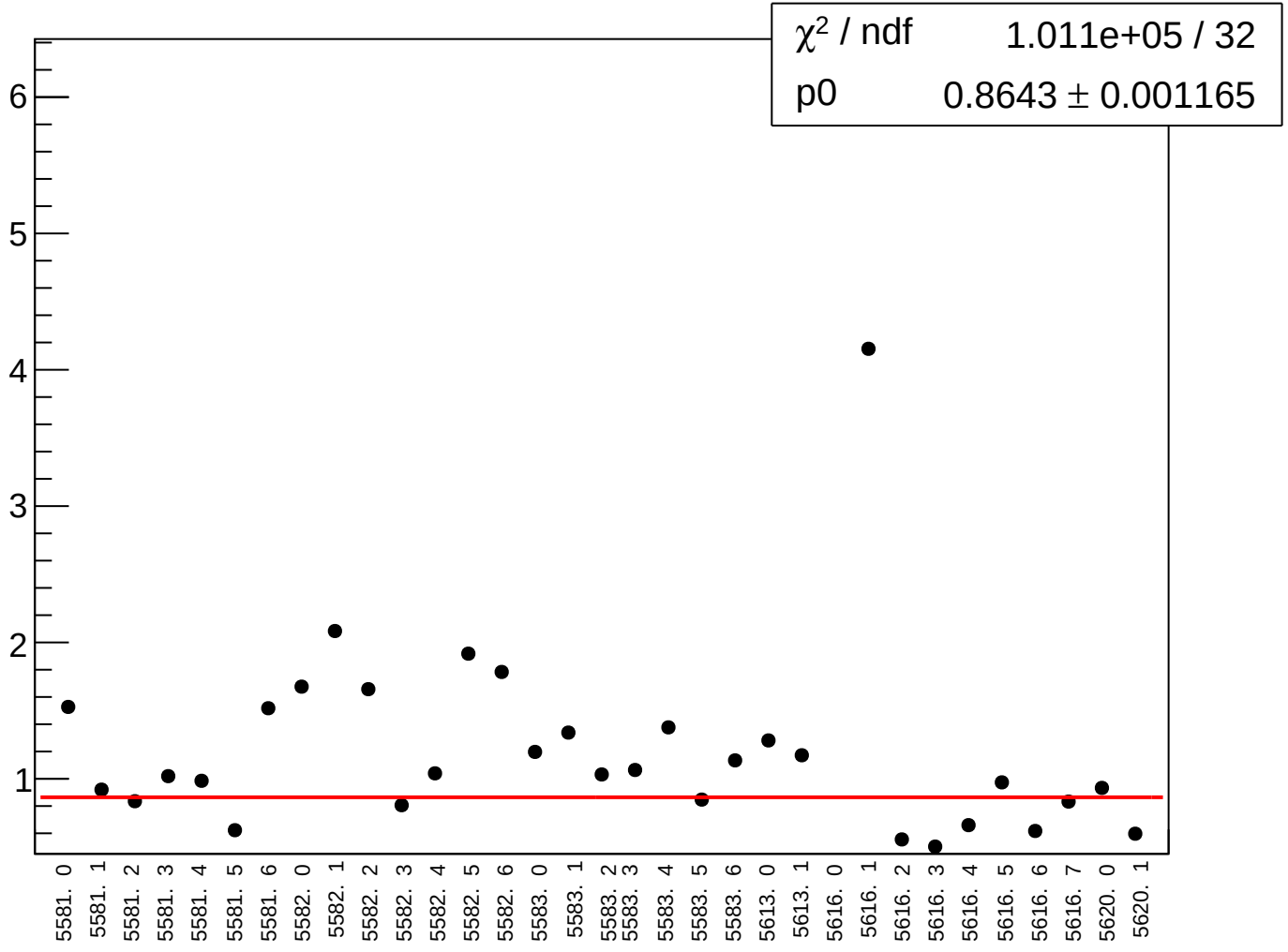

pull1D
Entries 33
Mean −0.2296
Std Dev 5.502
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

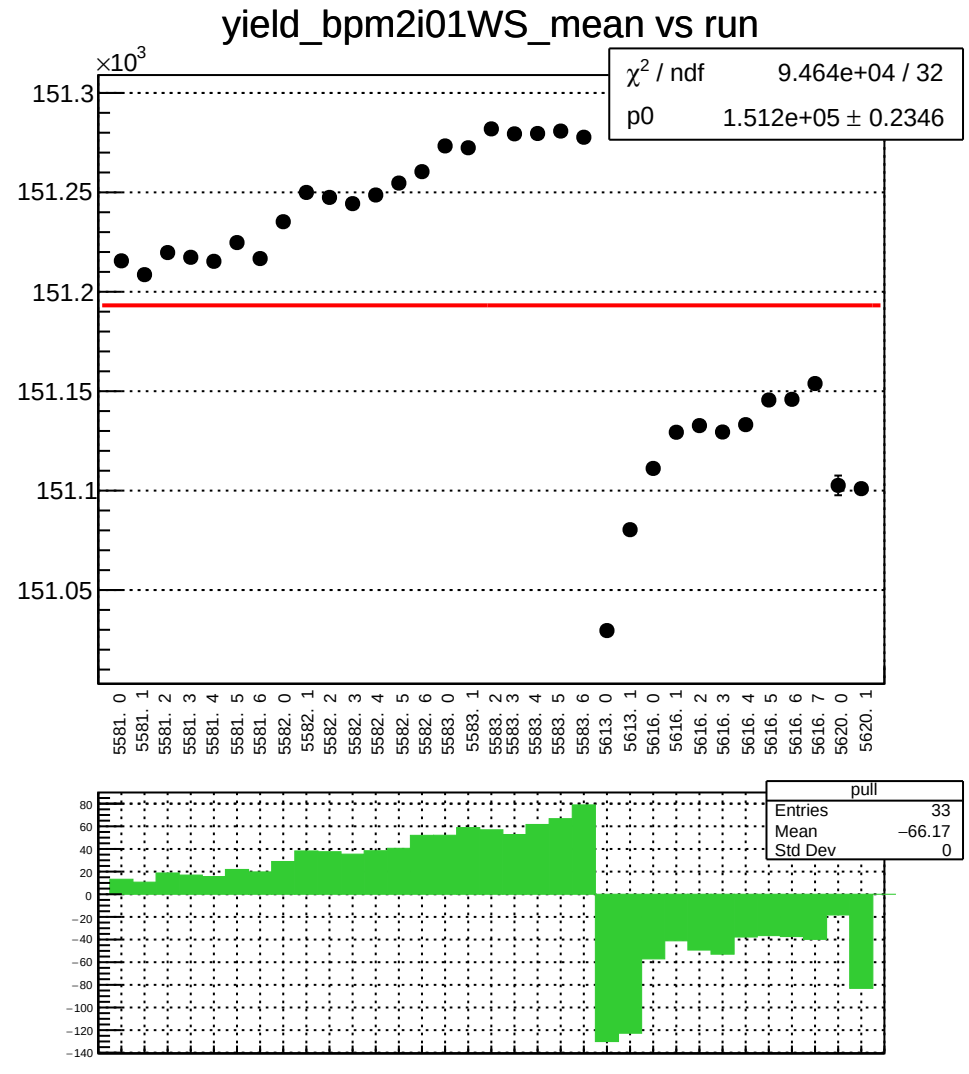

yield_cav4dQ_rms vs run
χ² / ndf 2.453e+05 / 32
p0 0.03669 ± 5.754e–05
30
25
20
15
10
5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

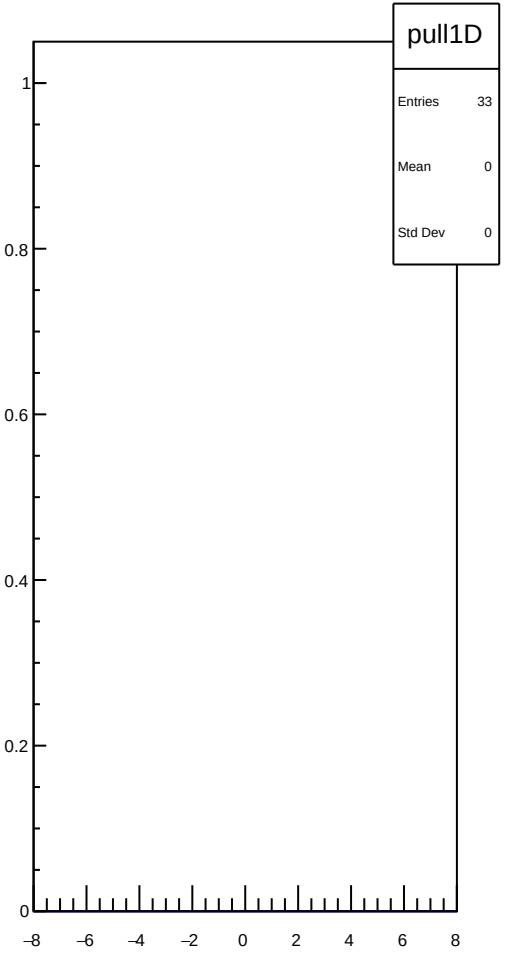

yield_bcm0l02_mean vs run
χ² / ndf 9.591e+05 / 32
p0 155.3 ± 0.001647
158
156
154
152
150
148
146
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −3.957
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

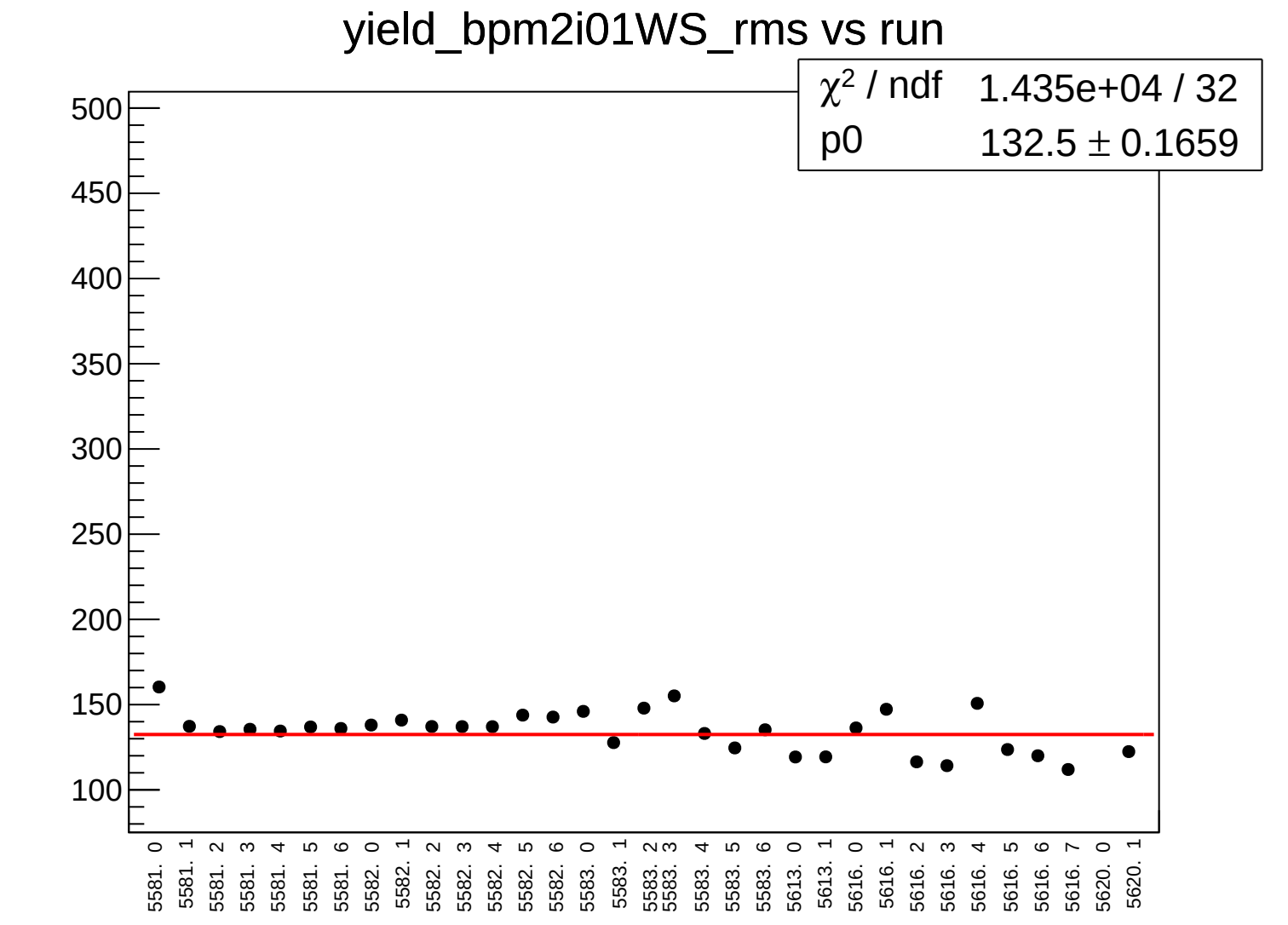

pull1D
Entries 33
Mean 5.947
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

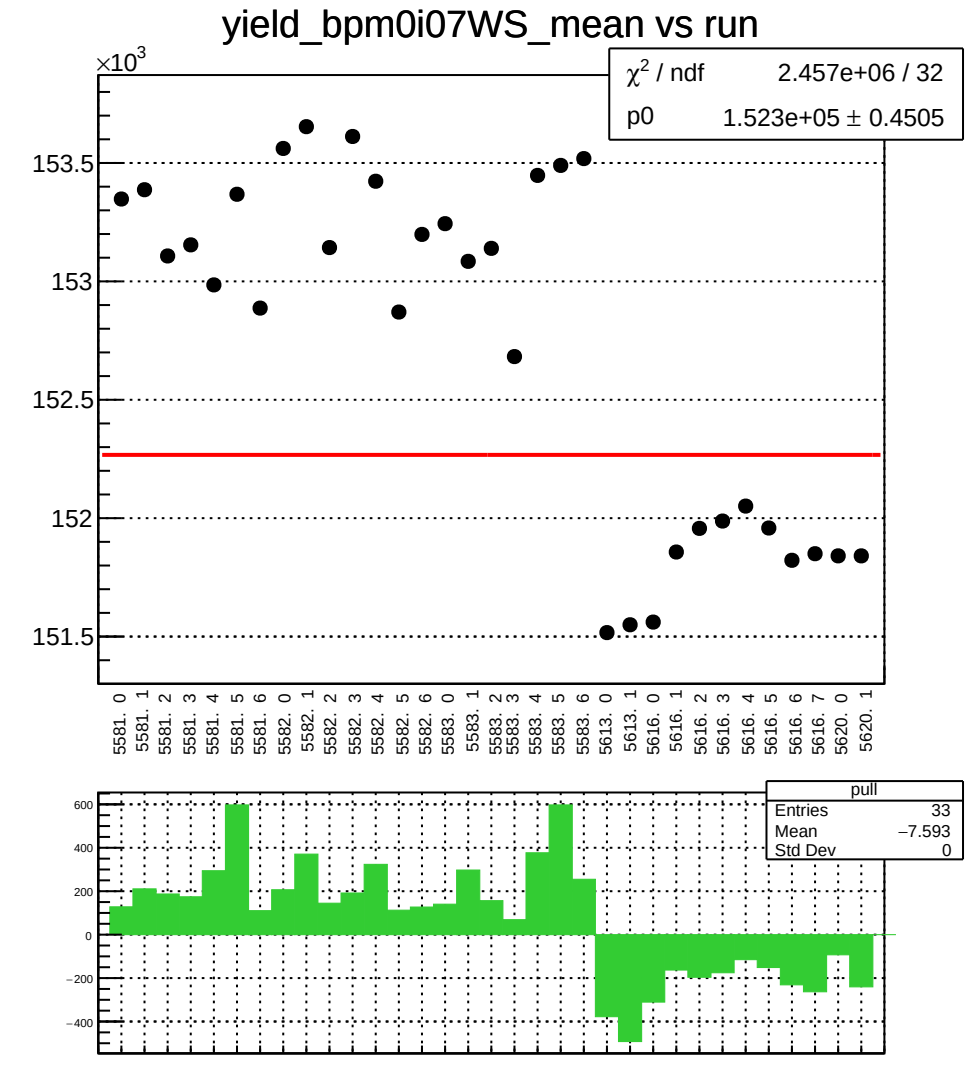
yield_bcm0l02_rms vs run

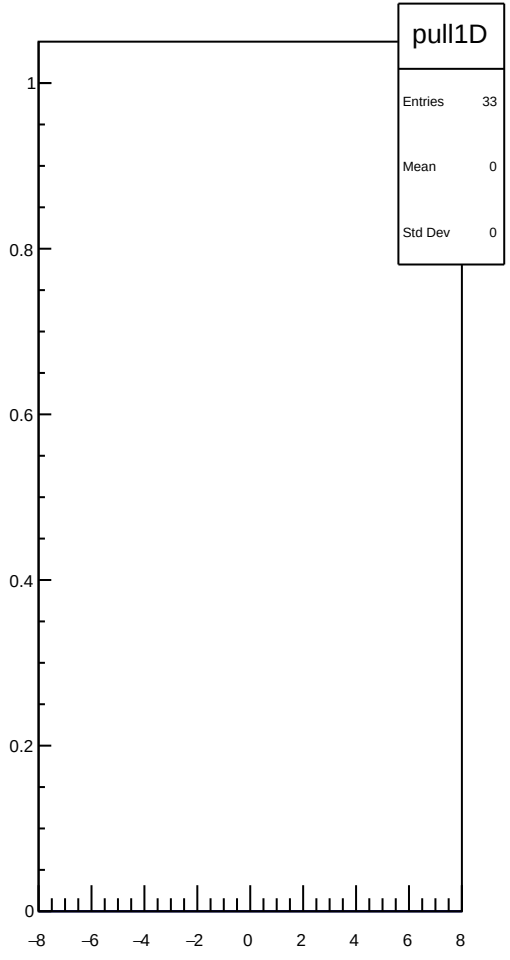


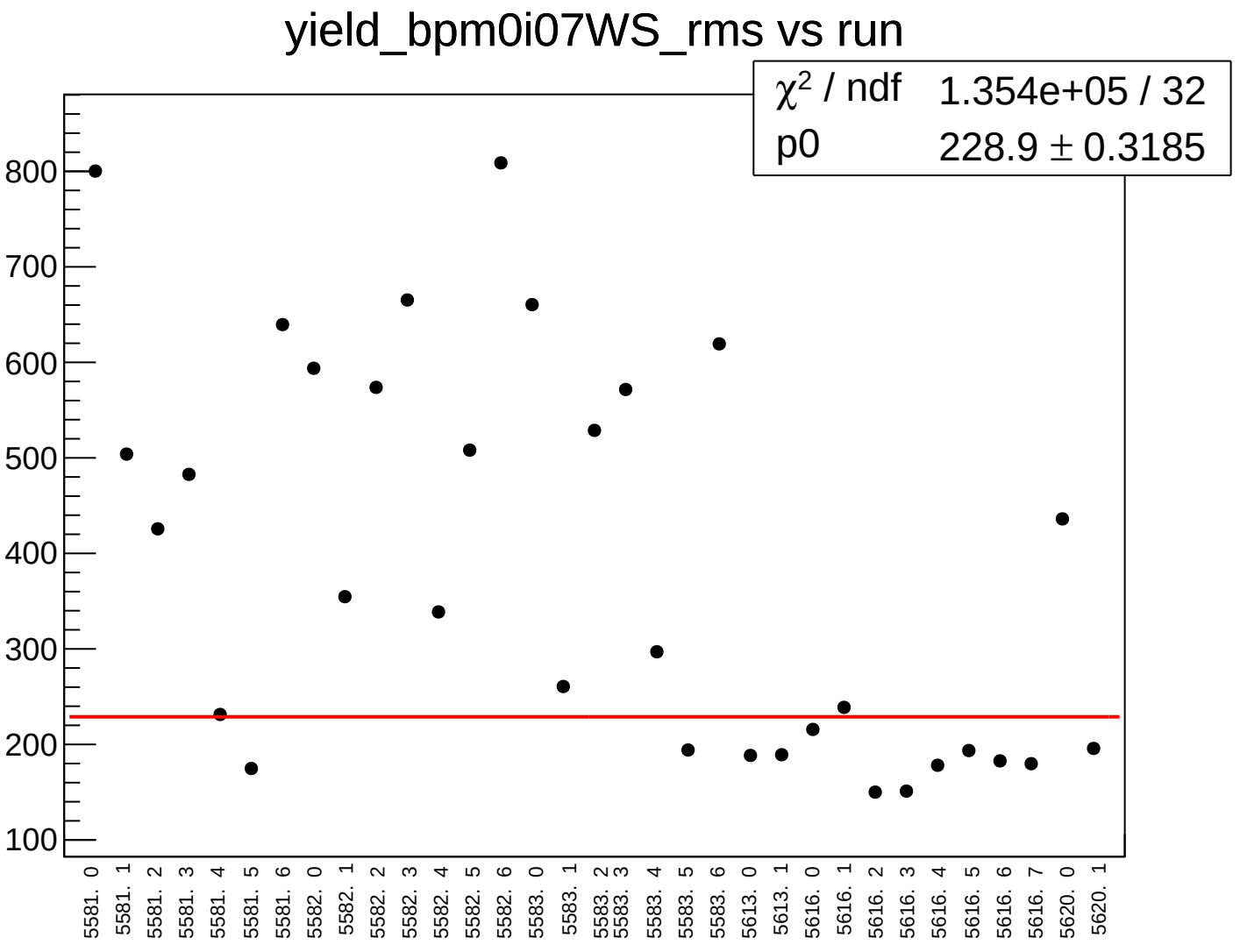

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 9.464e+04 / 32
p0 1.512e+05 ± 0.2346
151.3
151.25
151.2
151.15
151.1
151.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −66.17
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

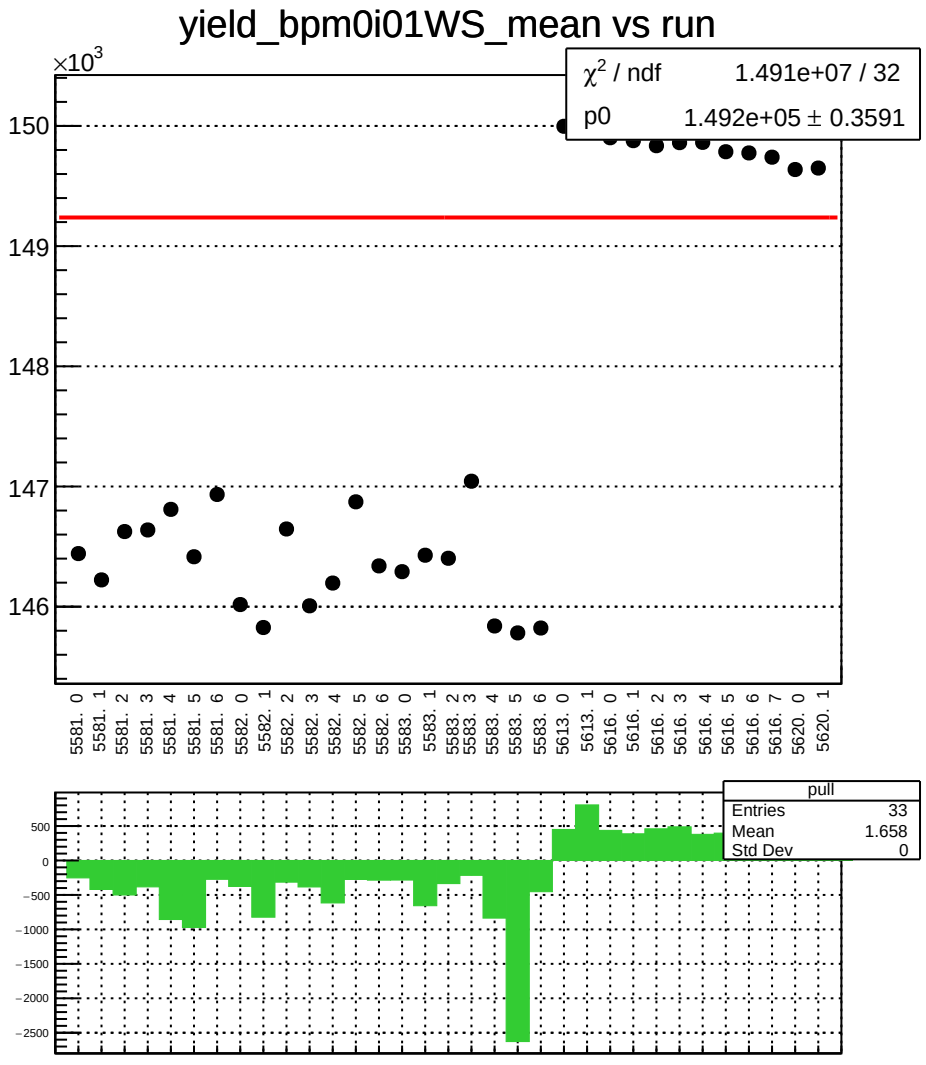

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

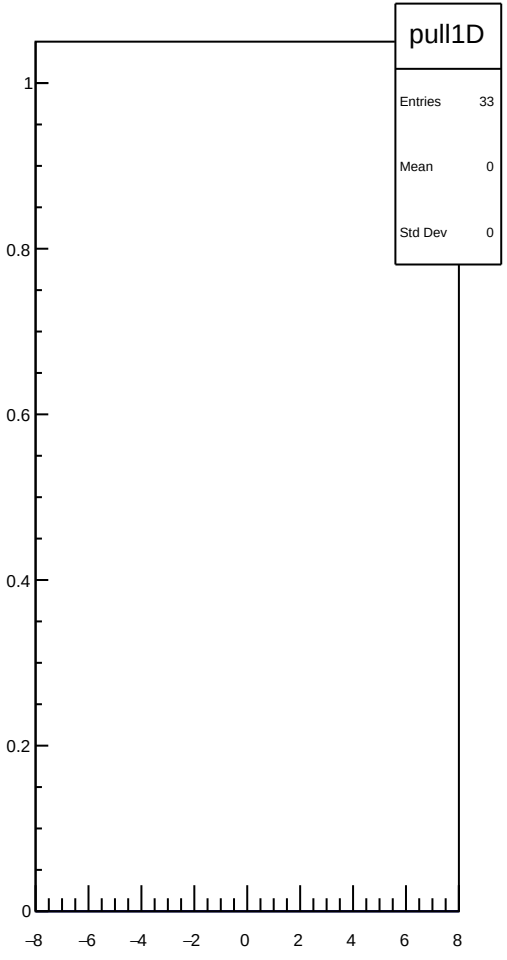

yield_bpm2i01WS_rms vs run
χ² / ndf 1.435e+04 / 32
p0 132.5 ± 0.1659
500
450
400
350
300
250
200
150
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

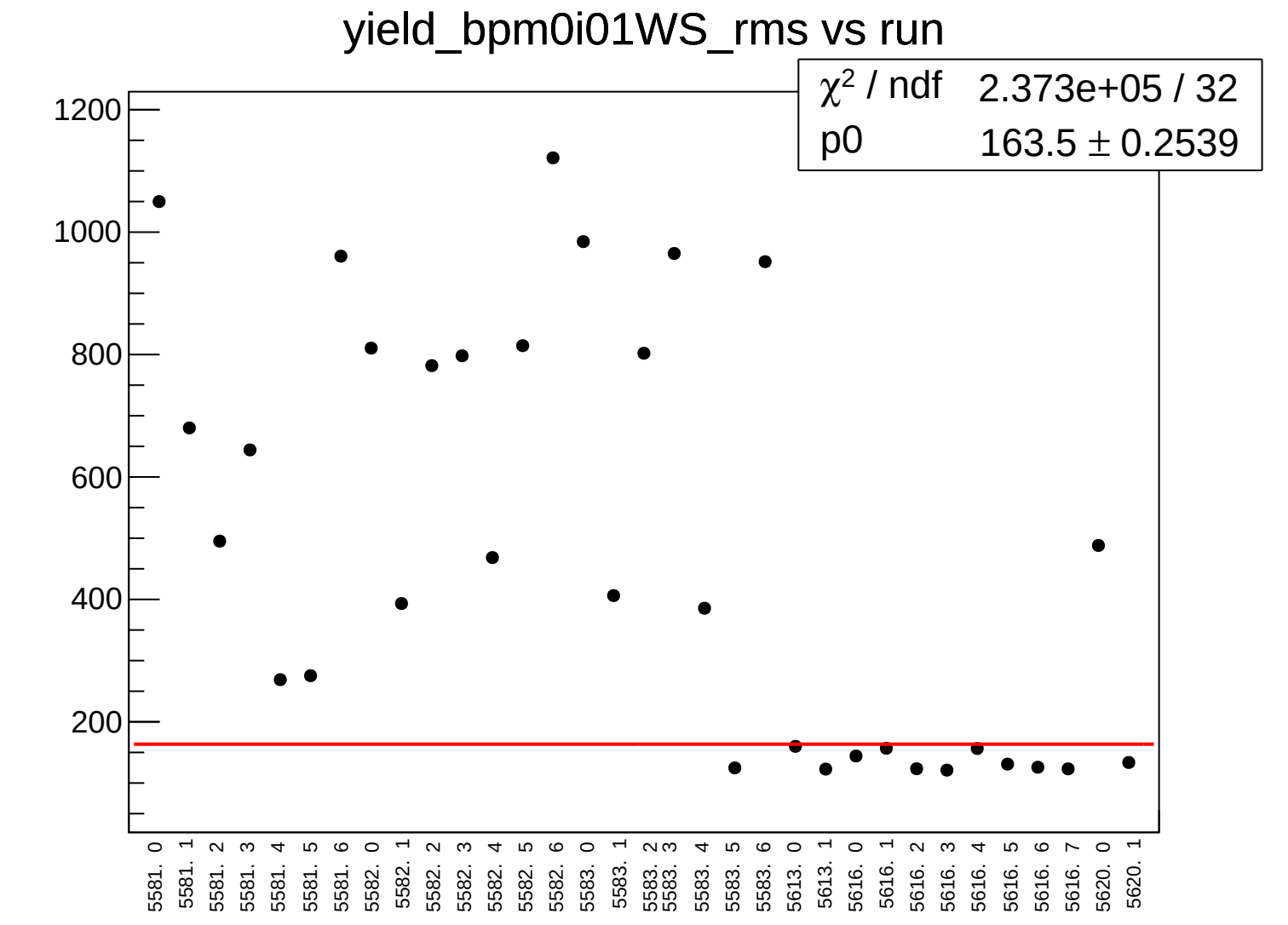

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.457e+06 / 32
p0 1.523e+05 ± 0.4505
153.5
153
152.5
152
151.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −7.593
Std Dev 0
600
400
200
0
−200
−400

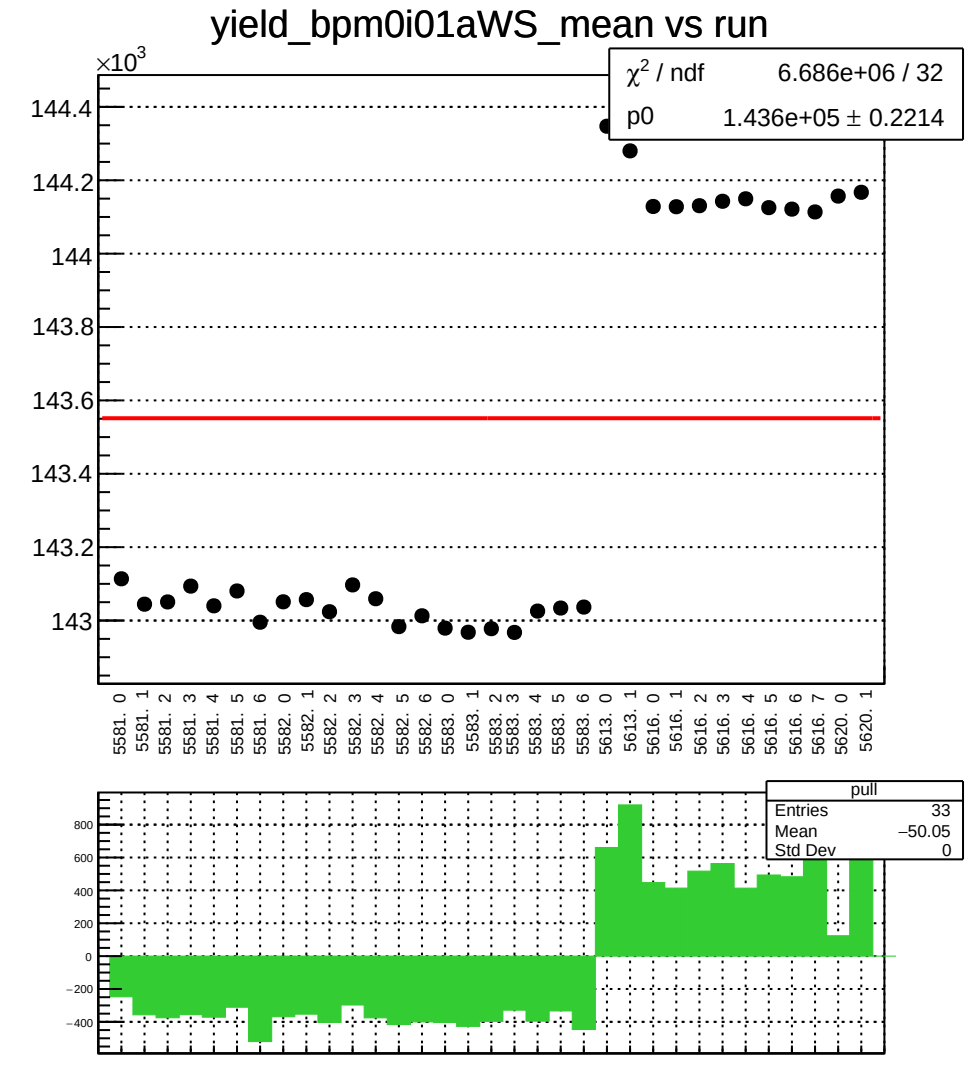

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

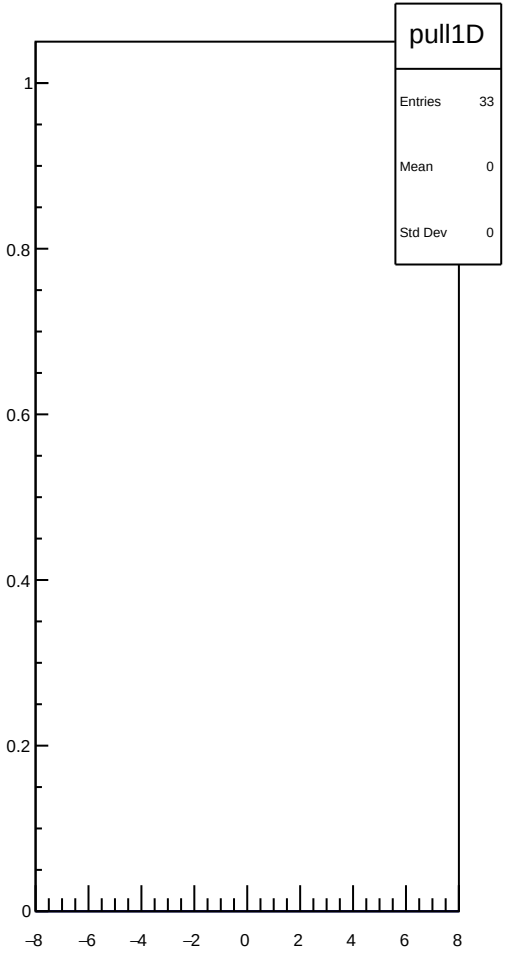

yield_bpm0i07WS_rms vs run
χ² / ndf 1.354e+05 / 32
p0 228.9 ± 0.3185
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

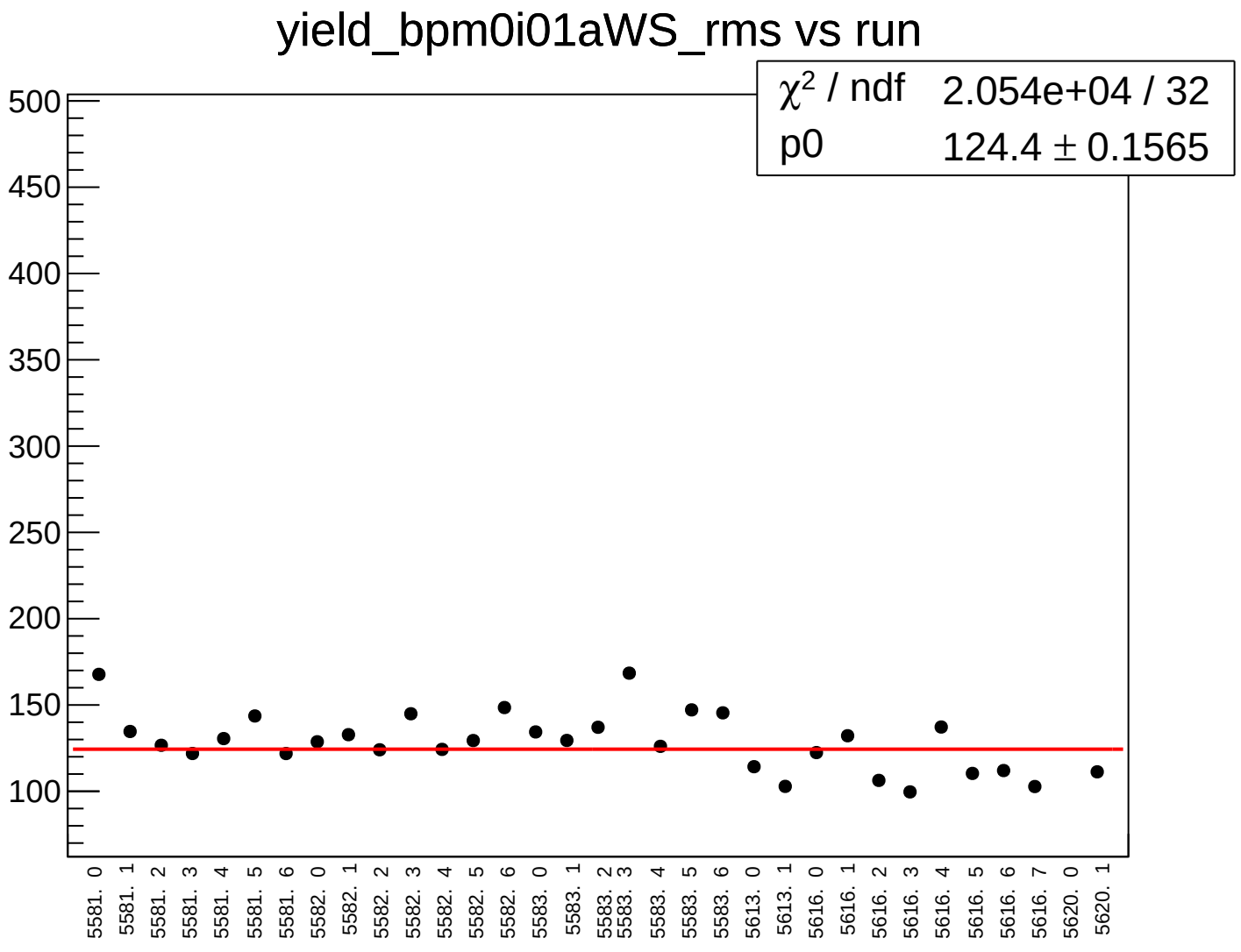

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 1.491e+07 / 32
p0 1.492e+05 ± 0.3591
150
149
148
147
146
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 1.658
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500

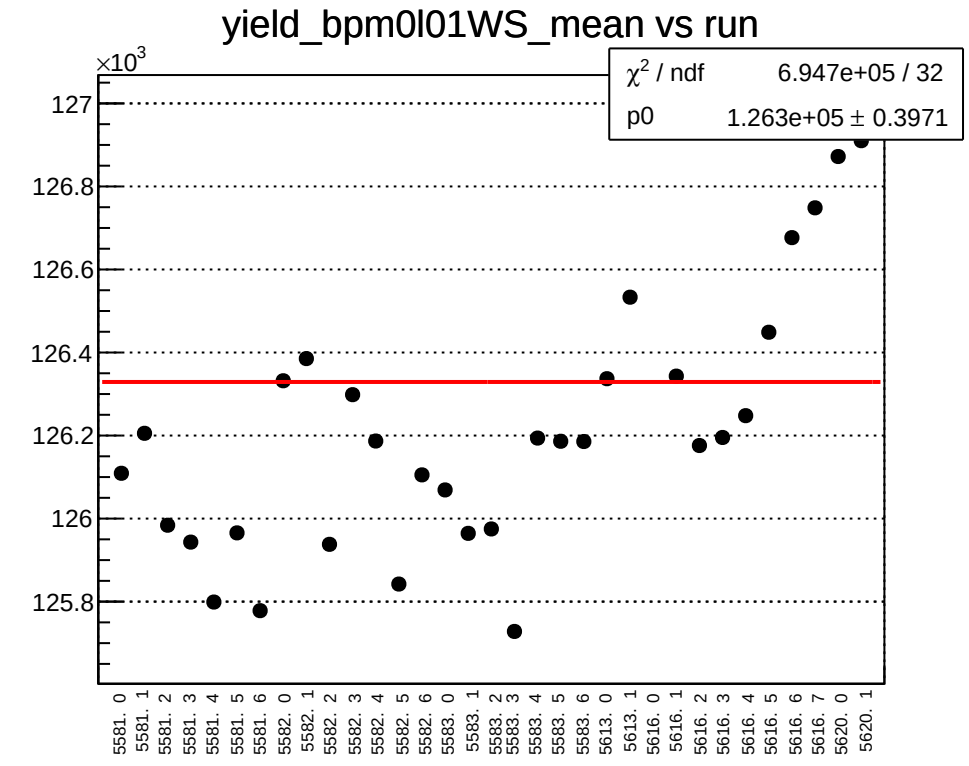

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

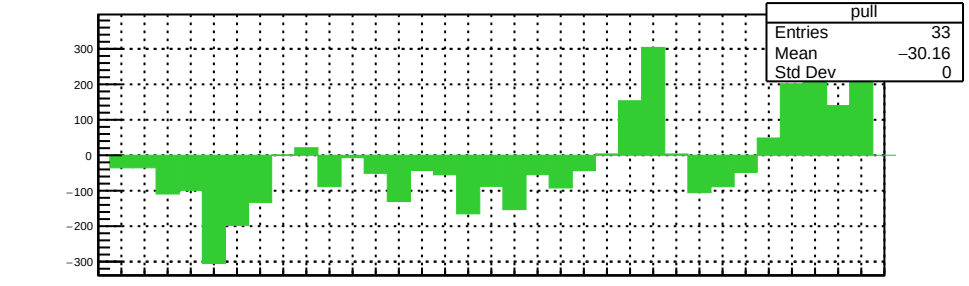

yield_bpm0i01WS_rms vs run
χ² / ndf 2.373e+05 / 32
p0 163.5 ± 0.2539
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

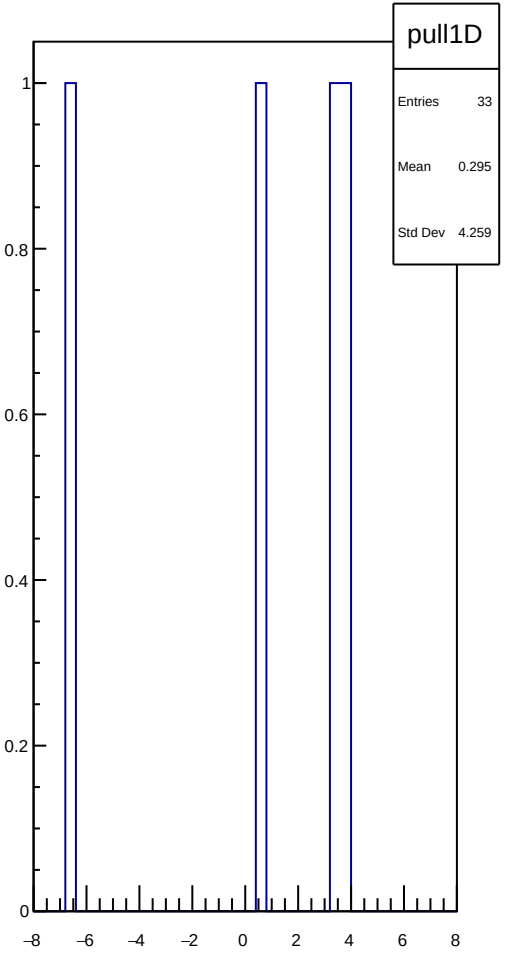

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 6.686e+06 / 32
p0 1.436e+05 ± 0.2214
144.4
144.2
144
143.8
143.6
143.4
143.2
143
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −50.05
Std Dev 0
800
600
400
200
0
−200
−400

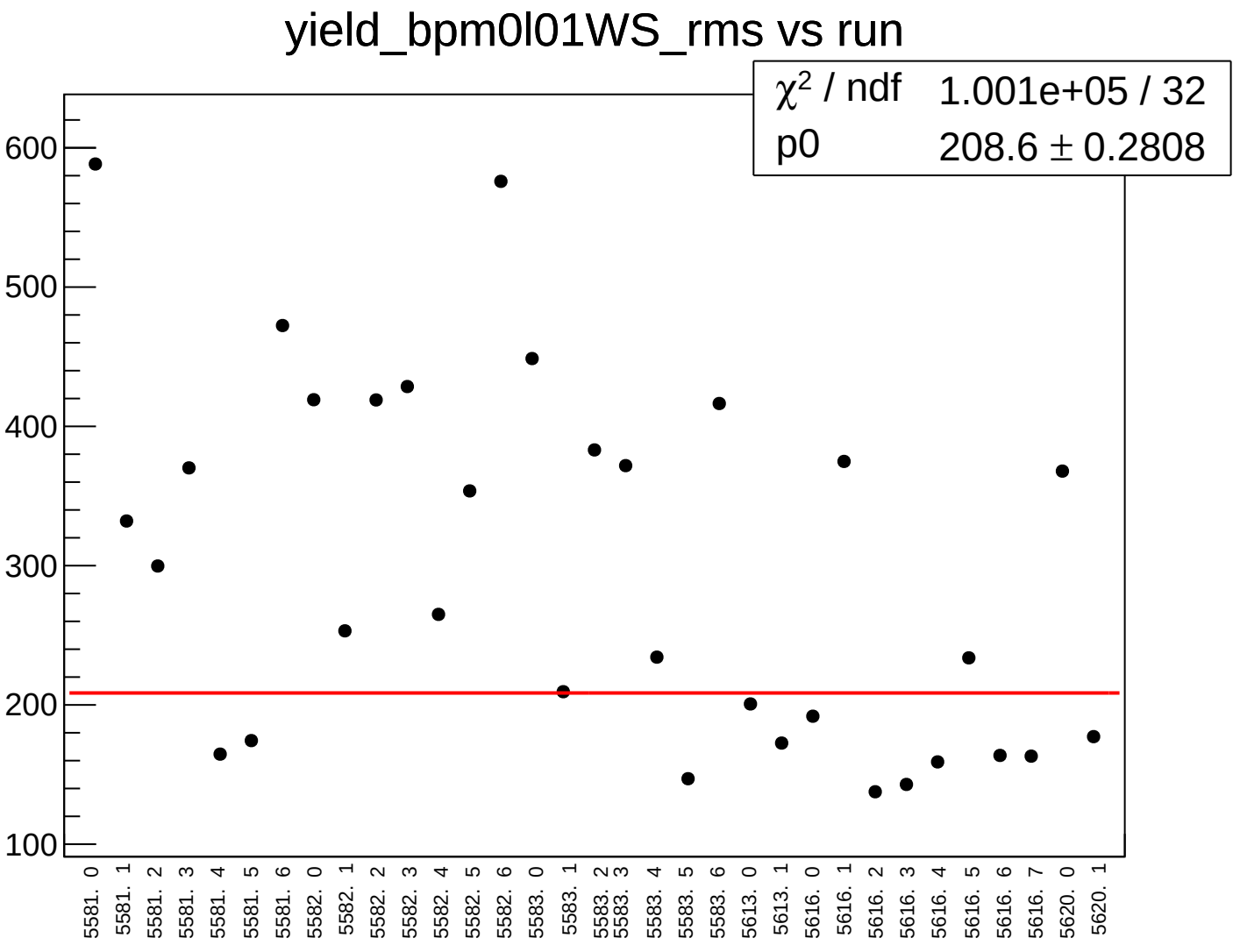

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

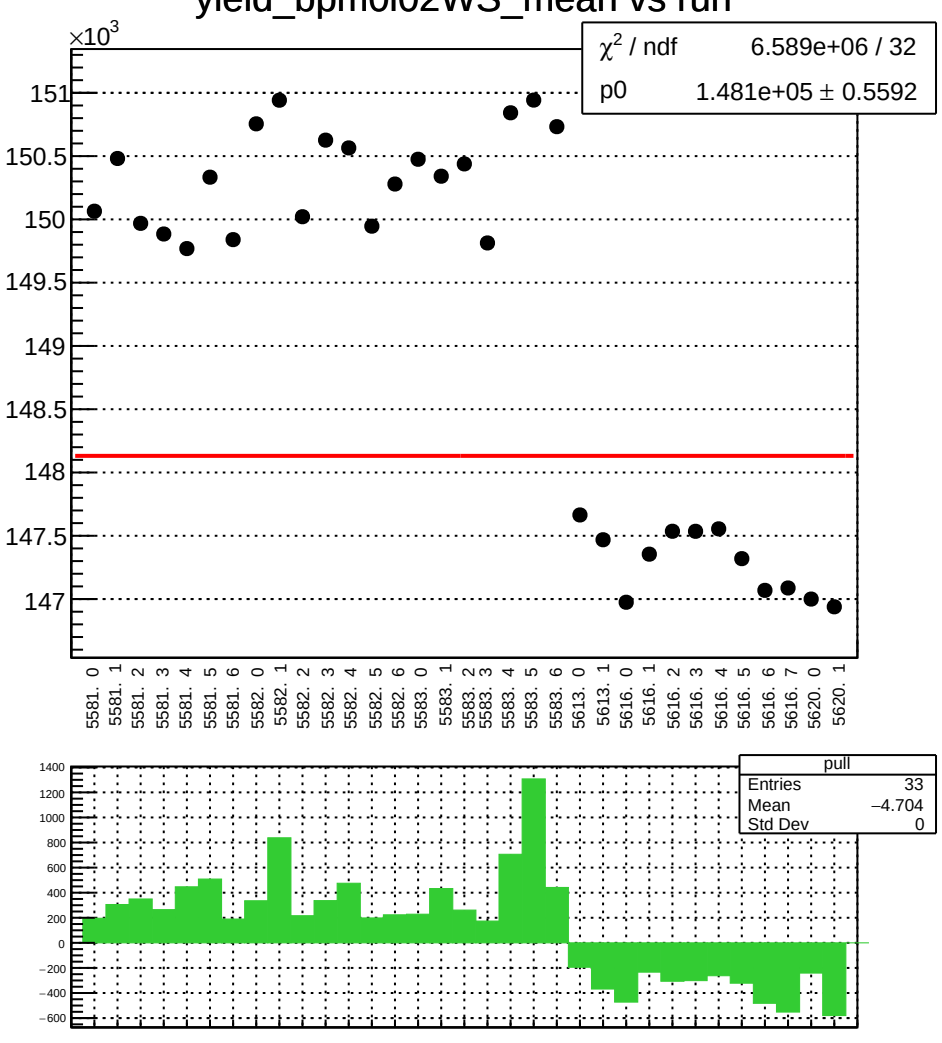

yield_bpm0i01aWS_rms vs run
χ² / ndf 2.054e+04 / 32
p0 124.4 ± 0.1565
500
450
400
350
300
250
200
150
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

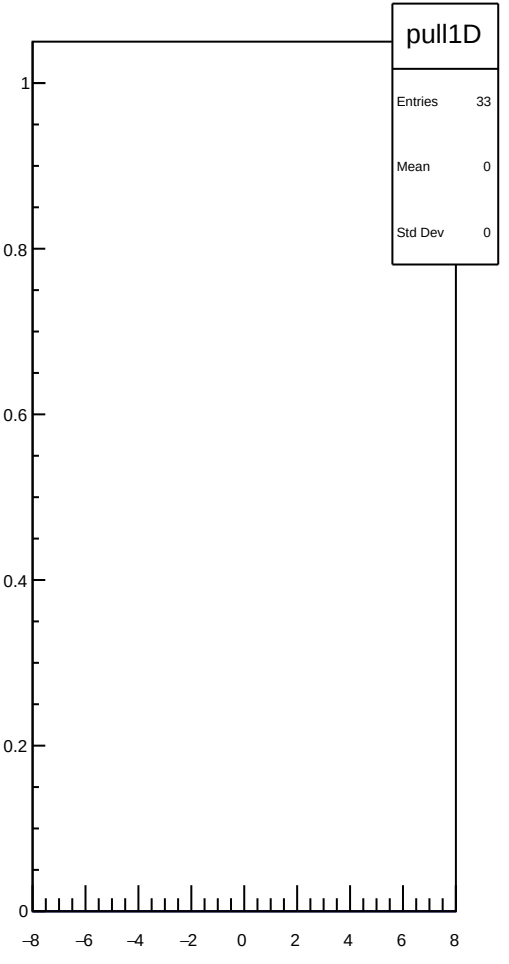

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 6.947e+05 / 32
p0 1.263e+05 ± 0.3971
127
126.8
126.6
126.4
126.2
126
125.8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

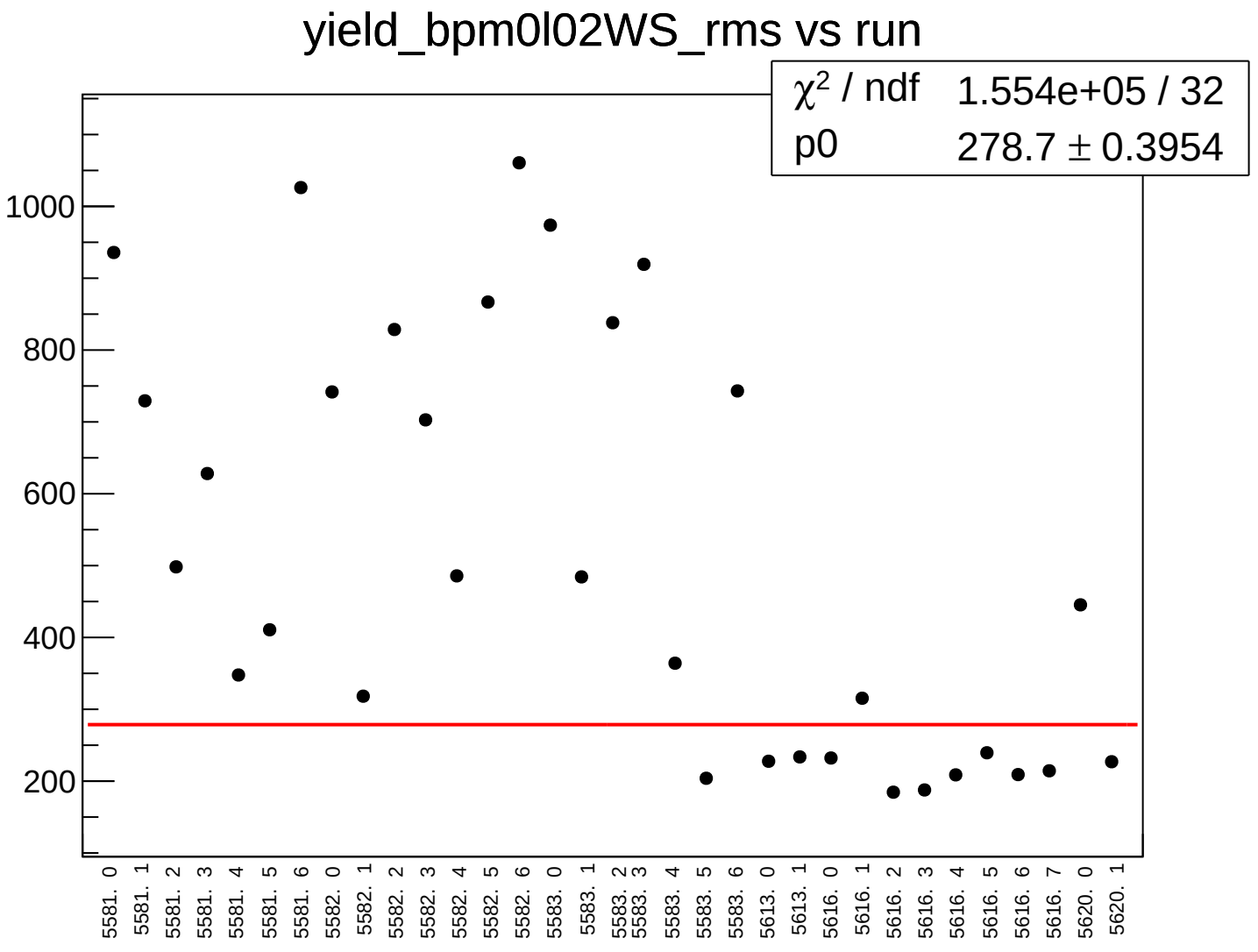

pull
Entries 33
Mean −30.16
Std Dev 0
300
200
100
0
−100
−200
−300

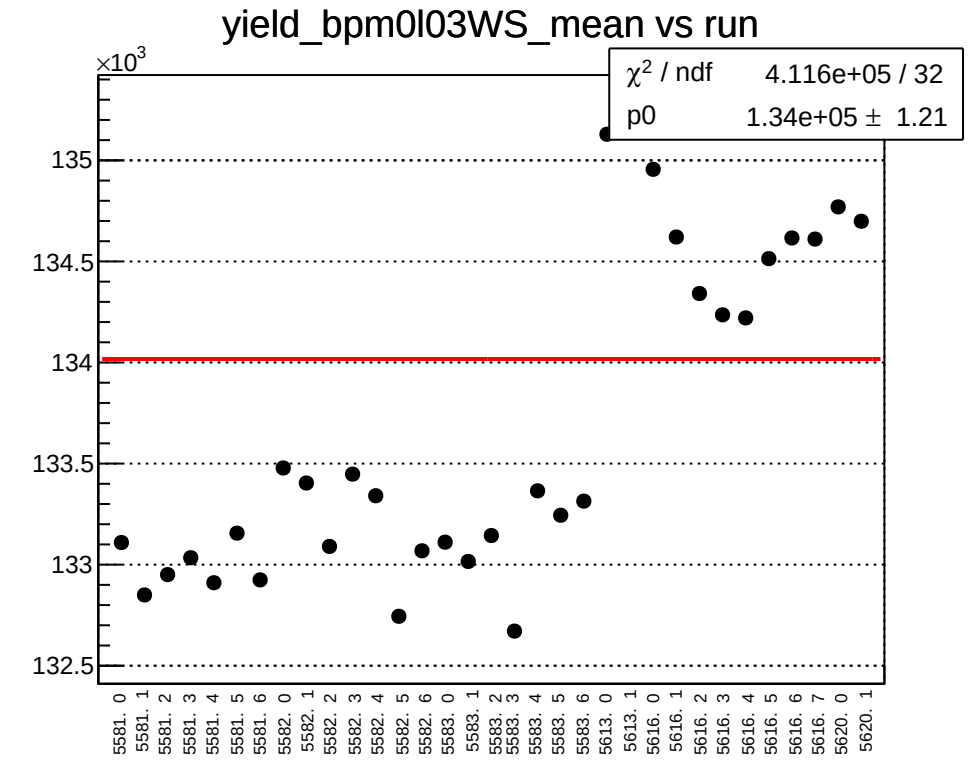

pull1D
Entries 33
Mean 0.295
Std Dev 4.259
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

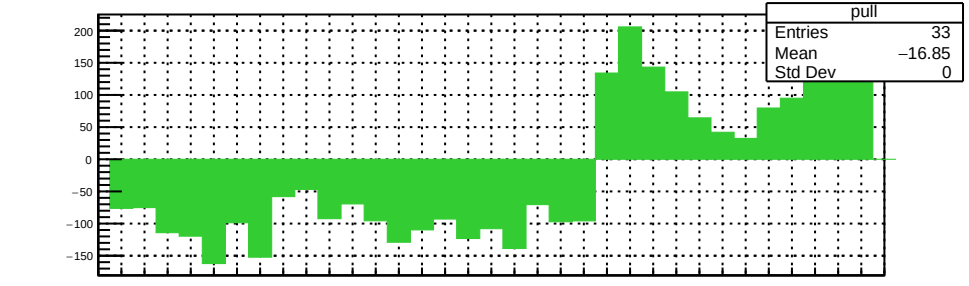

yield_bpm0l01WS_rms vs run
χ² / ndf 1.001e+05 / 32
p0 208.6 ± 0.2808
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

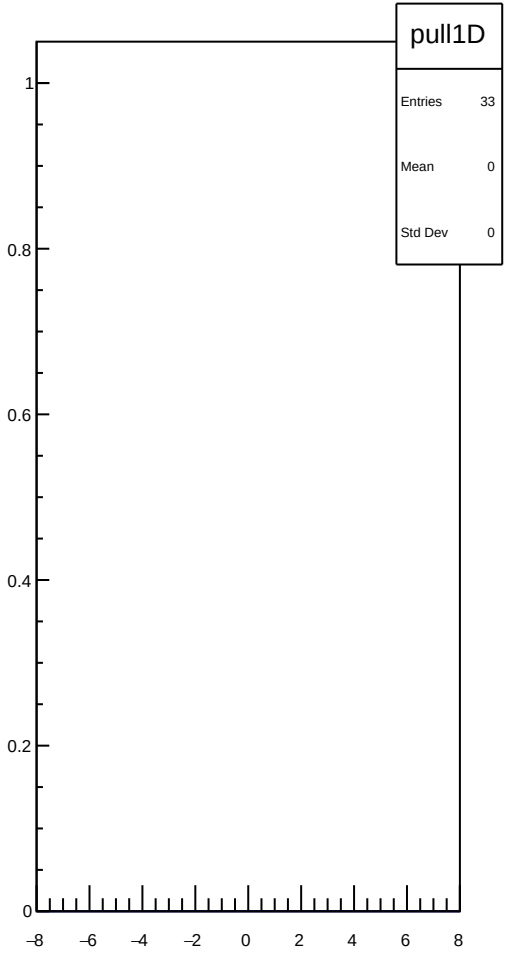

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 6.589e+06 / 32
p0 1.481e+05 ± 0.5592
151
150.5
150
149.5
149
148.5
148
147.5
147
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −4.704
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600

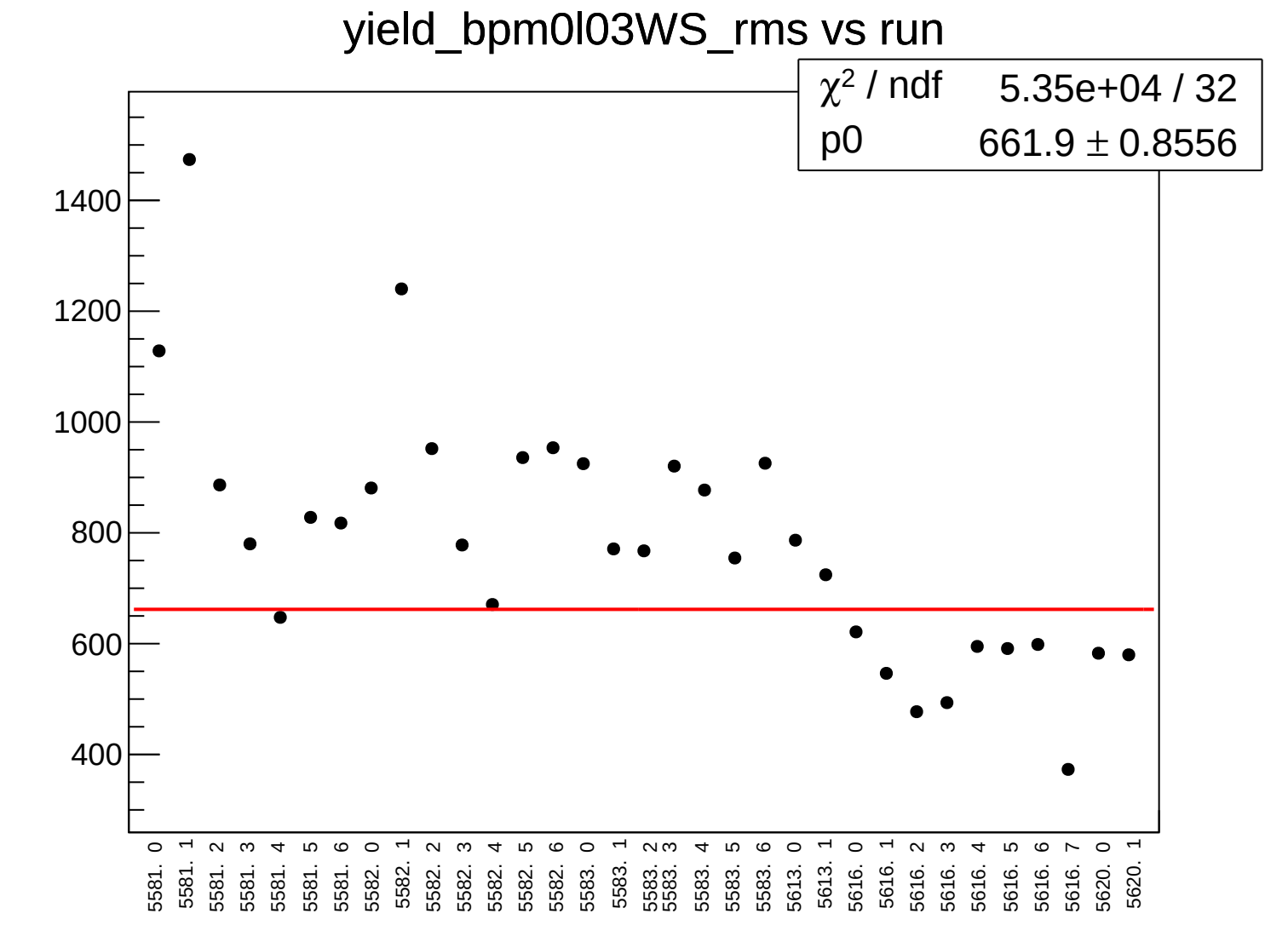

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

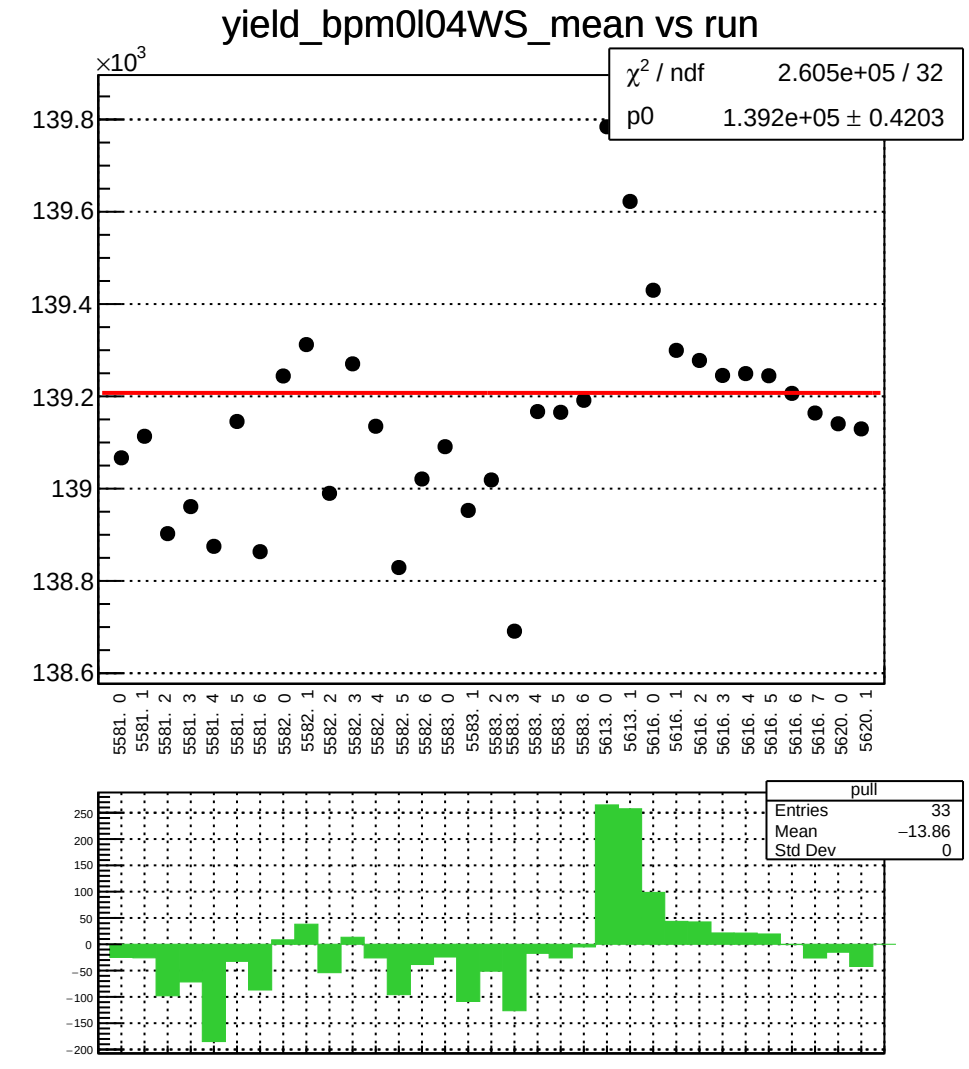

yield_bpm0l02WS_rms vs run
χ² / ndf 1.554e+05 / 32
p0 278.7 ± 0.3954
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

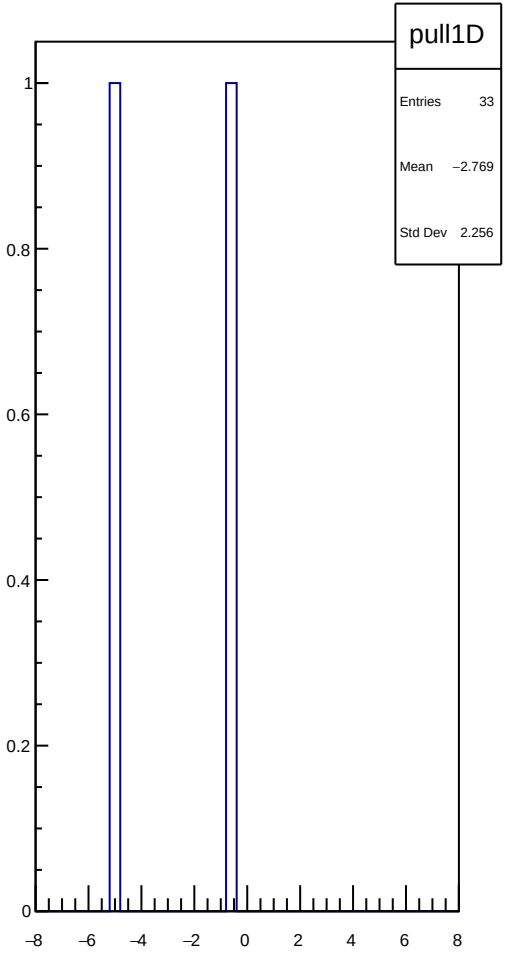

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 4.116e+05 / 32
p0 1.34e+05 ± 1.21
135
134.5
134
133.5
133
132.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

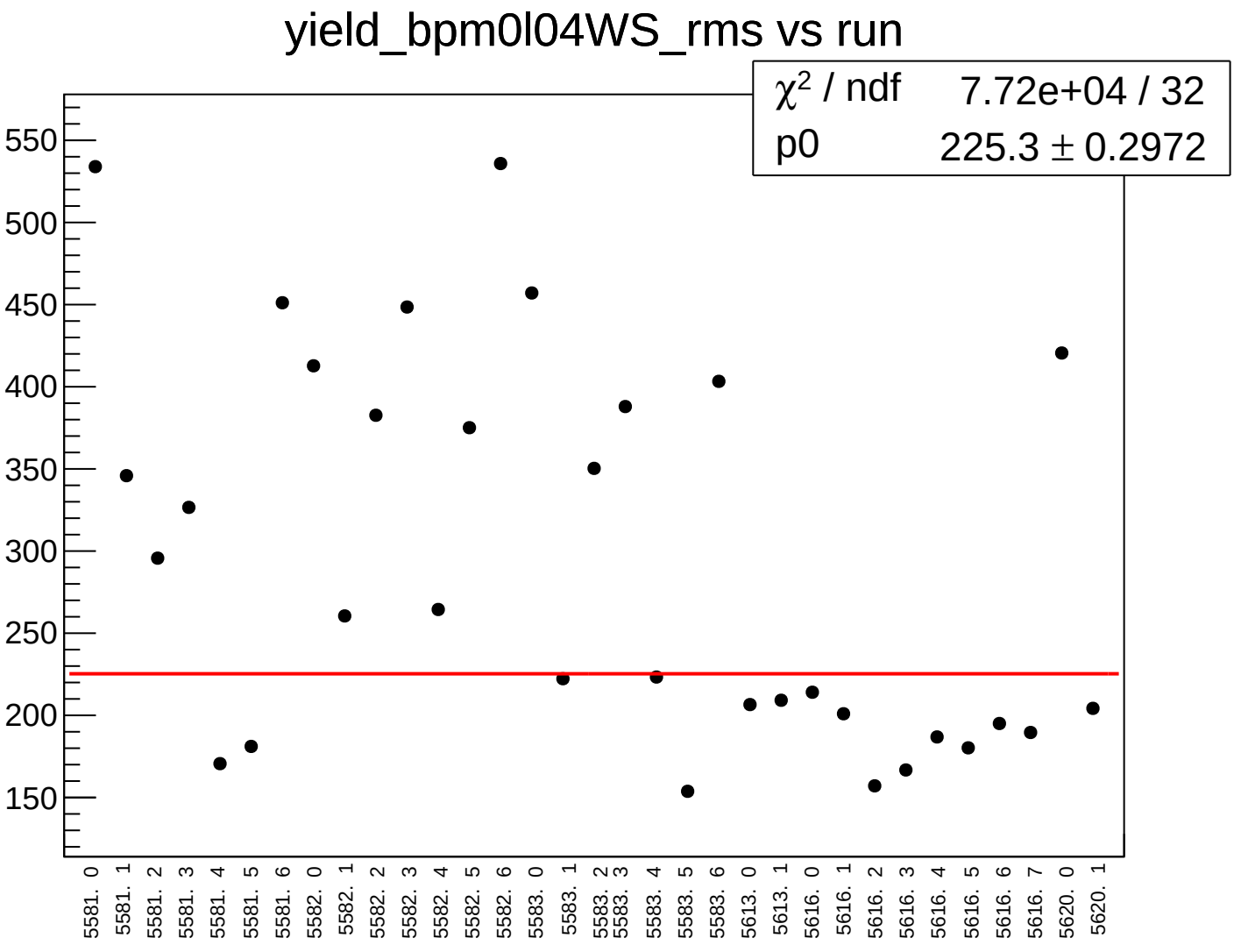

pull
Entries 33
Mean −16.85
Std Dev 0
200
150
100
50
0
−50
−100
−150

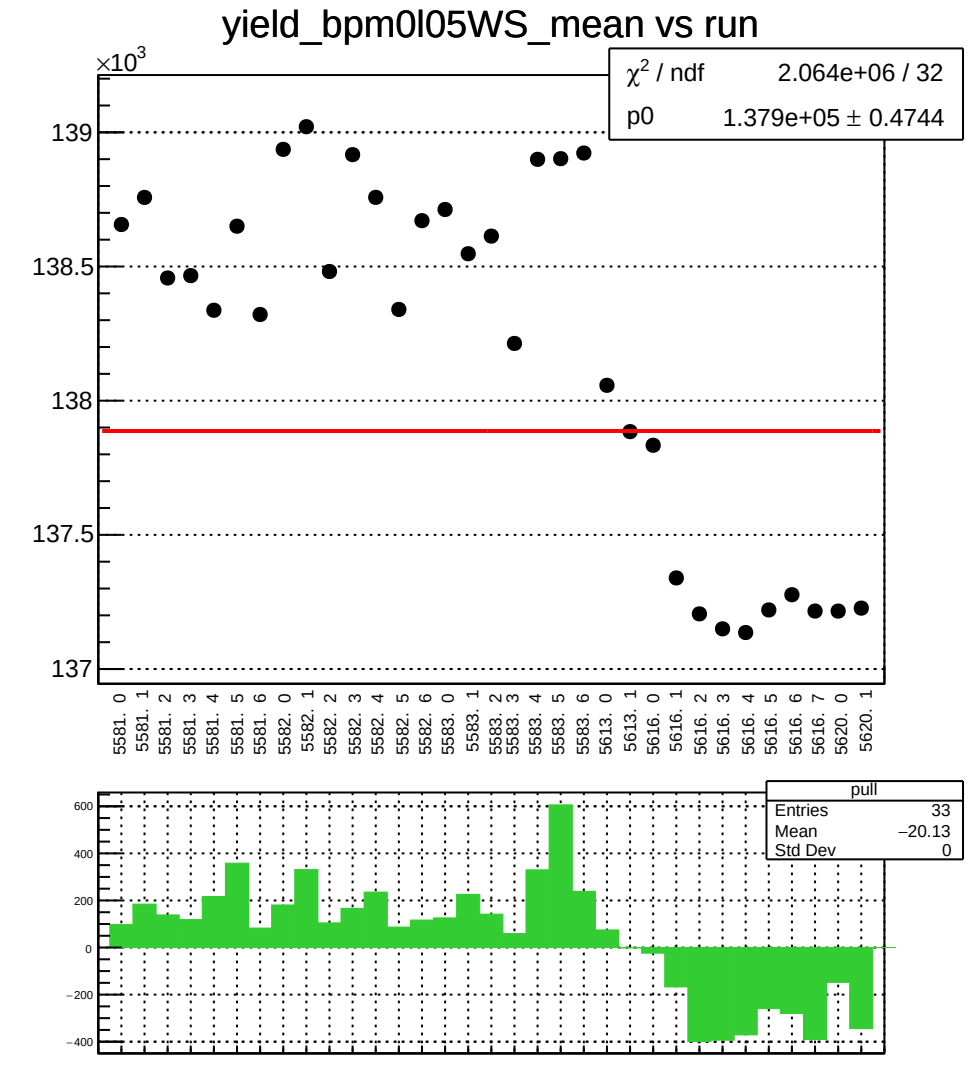

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

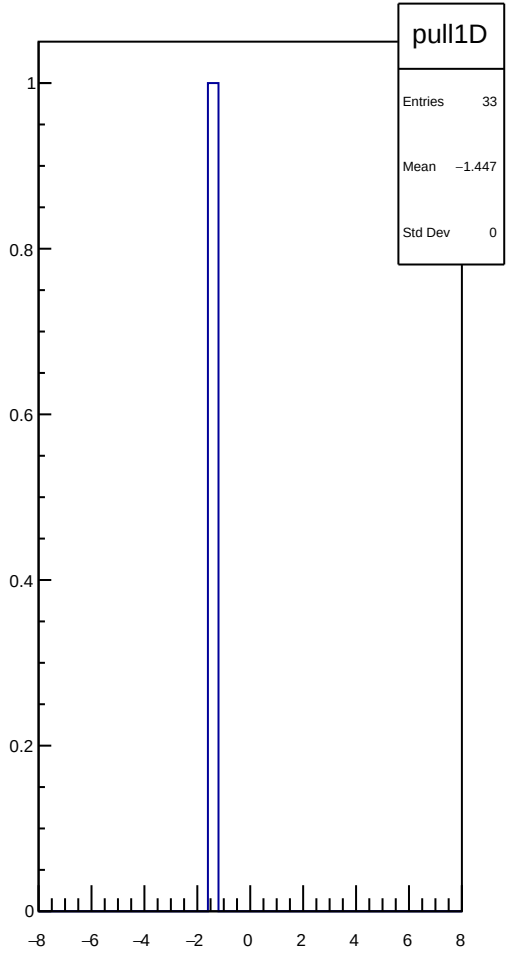

yield_bpm0l03WS_rms vs run
χ² / ndf 5.35e+04 / 32
p0 661.9 ± 0.8556
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

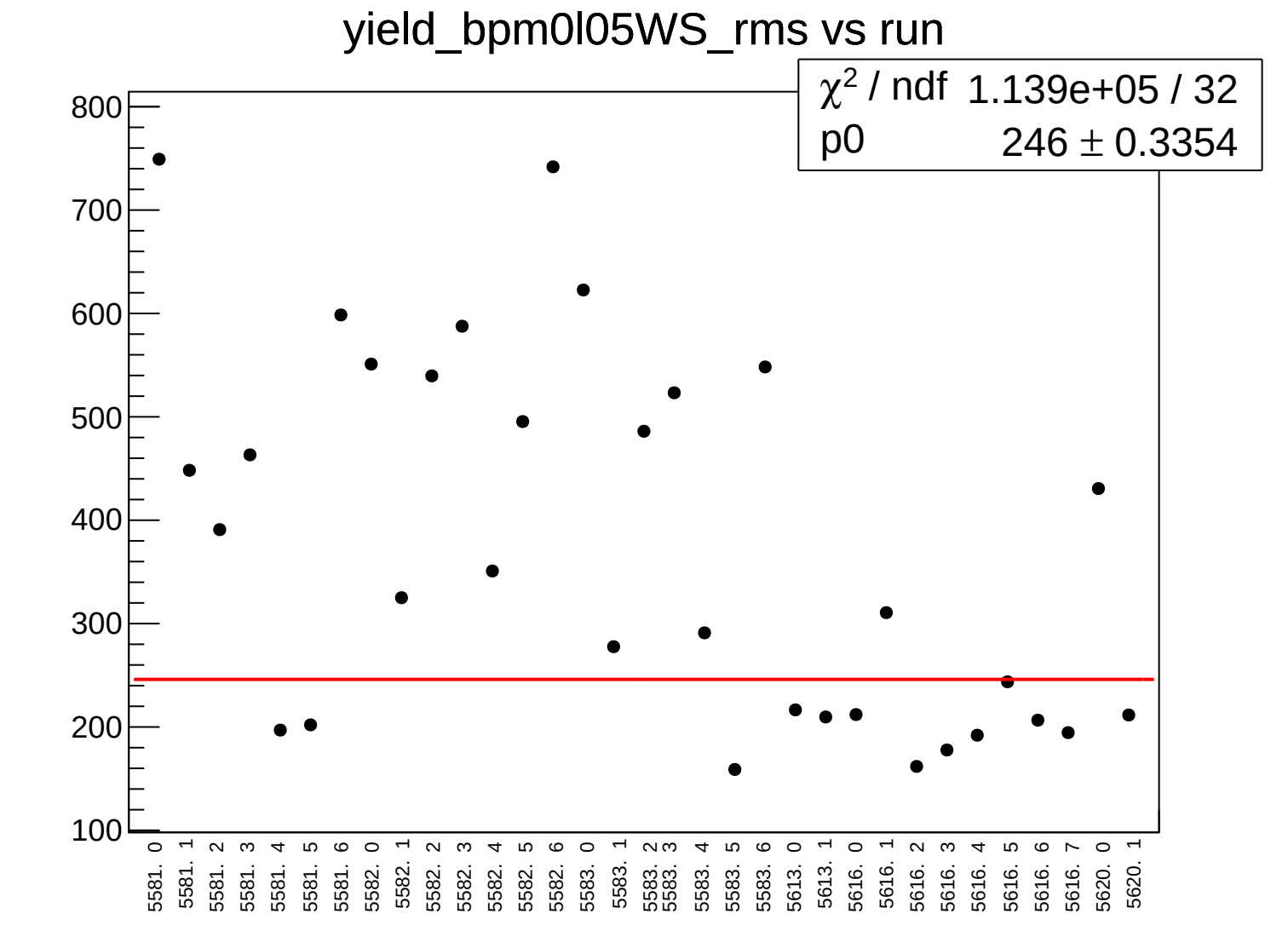

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 2.605e+05 / 32
p0 1.392e+05 ± 0.4203
139.8
139.6
139.4
139.2
139
138.8
138.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −13.86
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

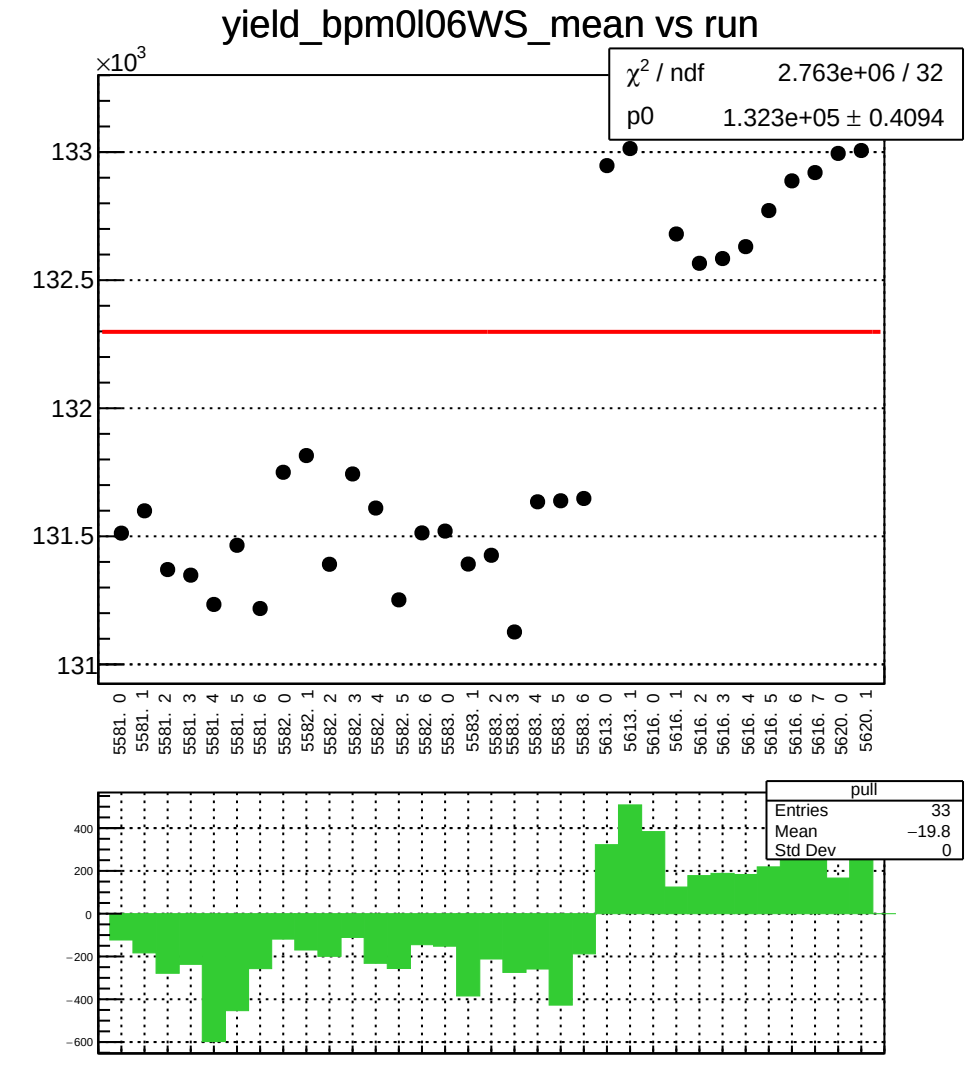

pull1D
Entries 33
Mean −2.769
Std Dev 2.256
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

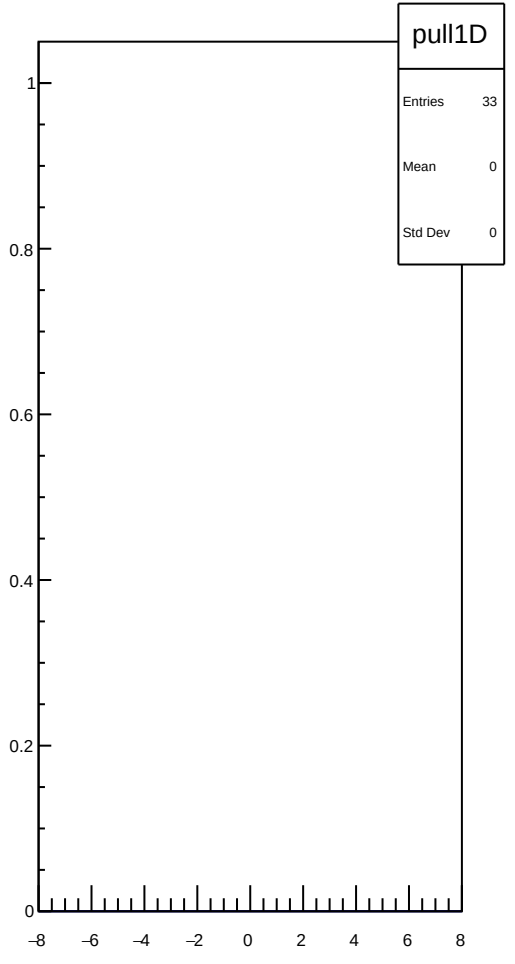

yield_bpm0l04WS_rms vs run
χ² / ndf 7.72e+04 / 32
p0 225.3 ± 0.2972
550
500
450
400
350
300
250
200
150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

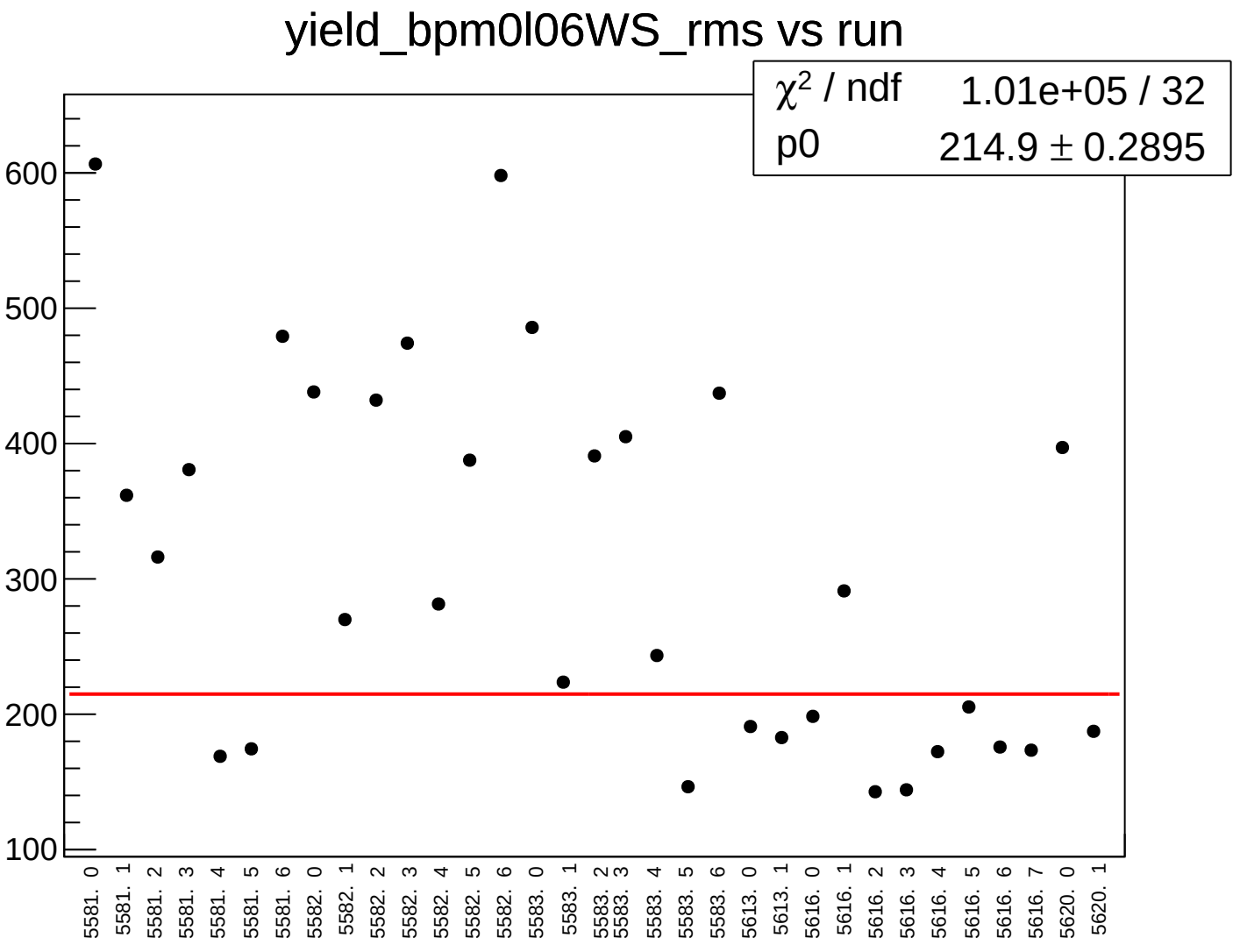

yield_bpm0l05WS_mean vs run
×10^3
χ^2 / ndf 2.064e+06 / 32
p0 1.379e+05 ± 0.4744
139
138.5
138
137.5
137
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −20.13
Std Dev 0
600
400
200
0
−200
−400

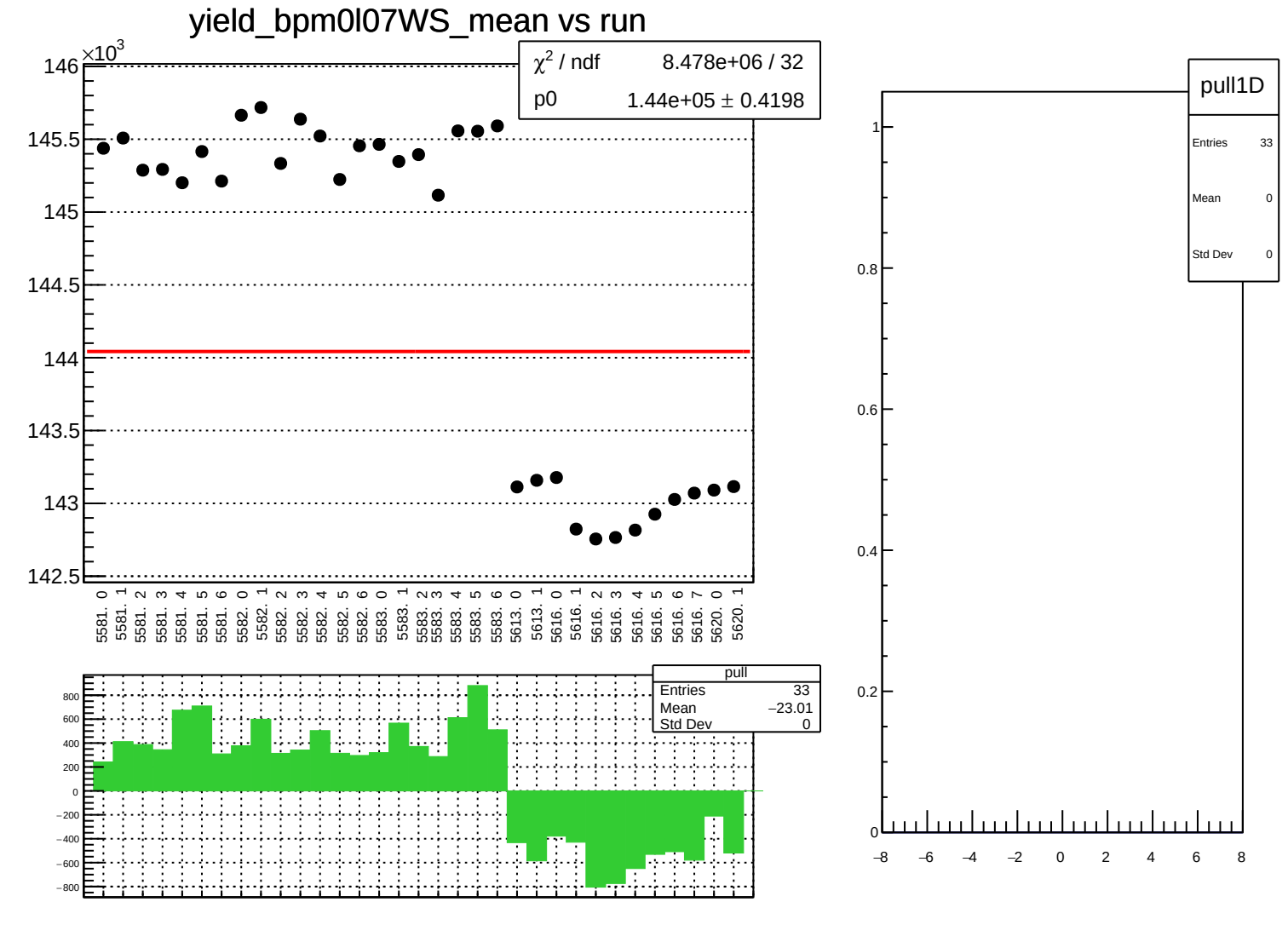

pull1D
Entries 33
Mean −1.447
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

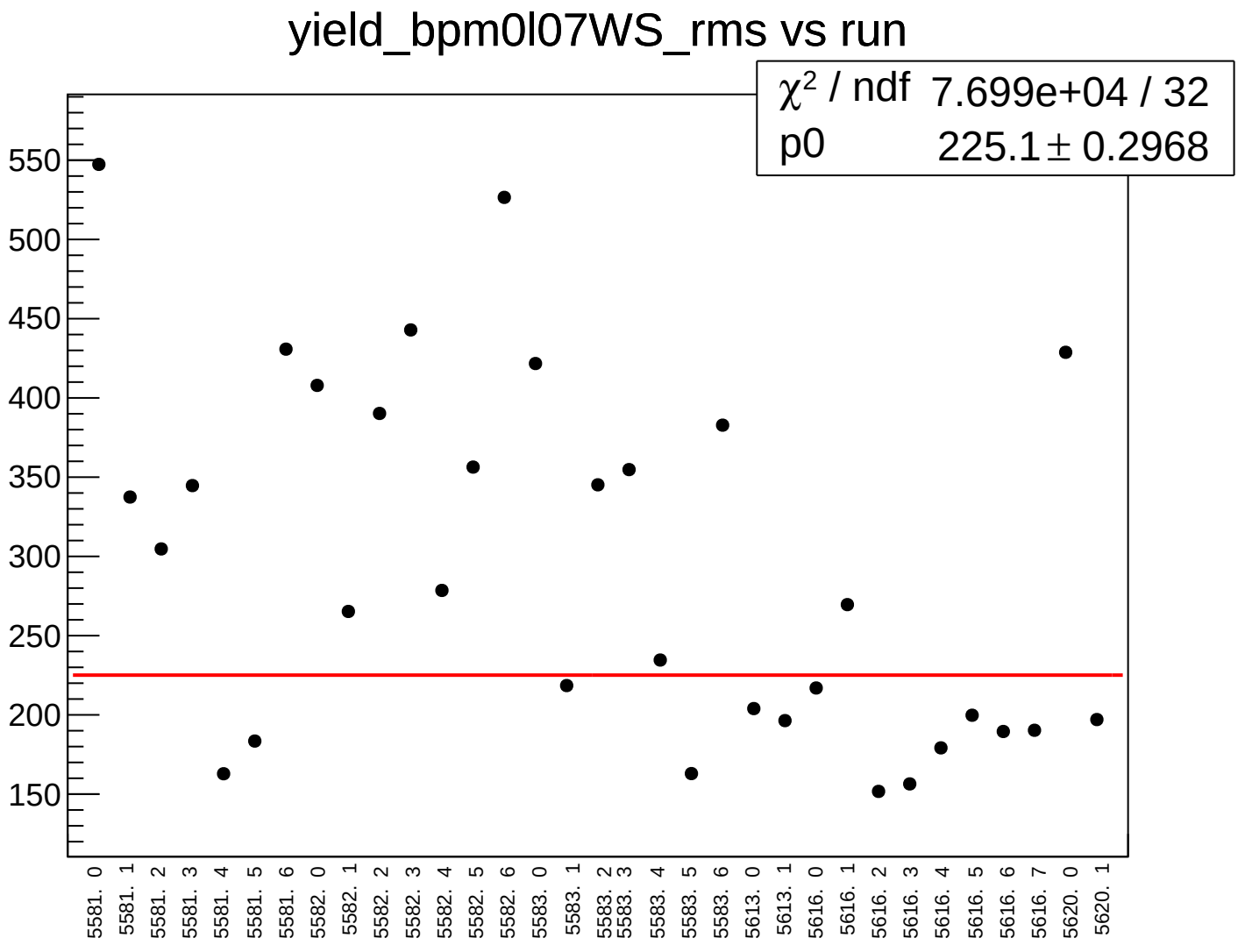

yield_bpm0l05WS_rms vs run
χ² / ndf 1.139e+05 / 32
p0 246 ± 0.3354
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

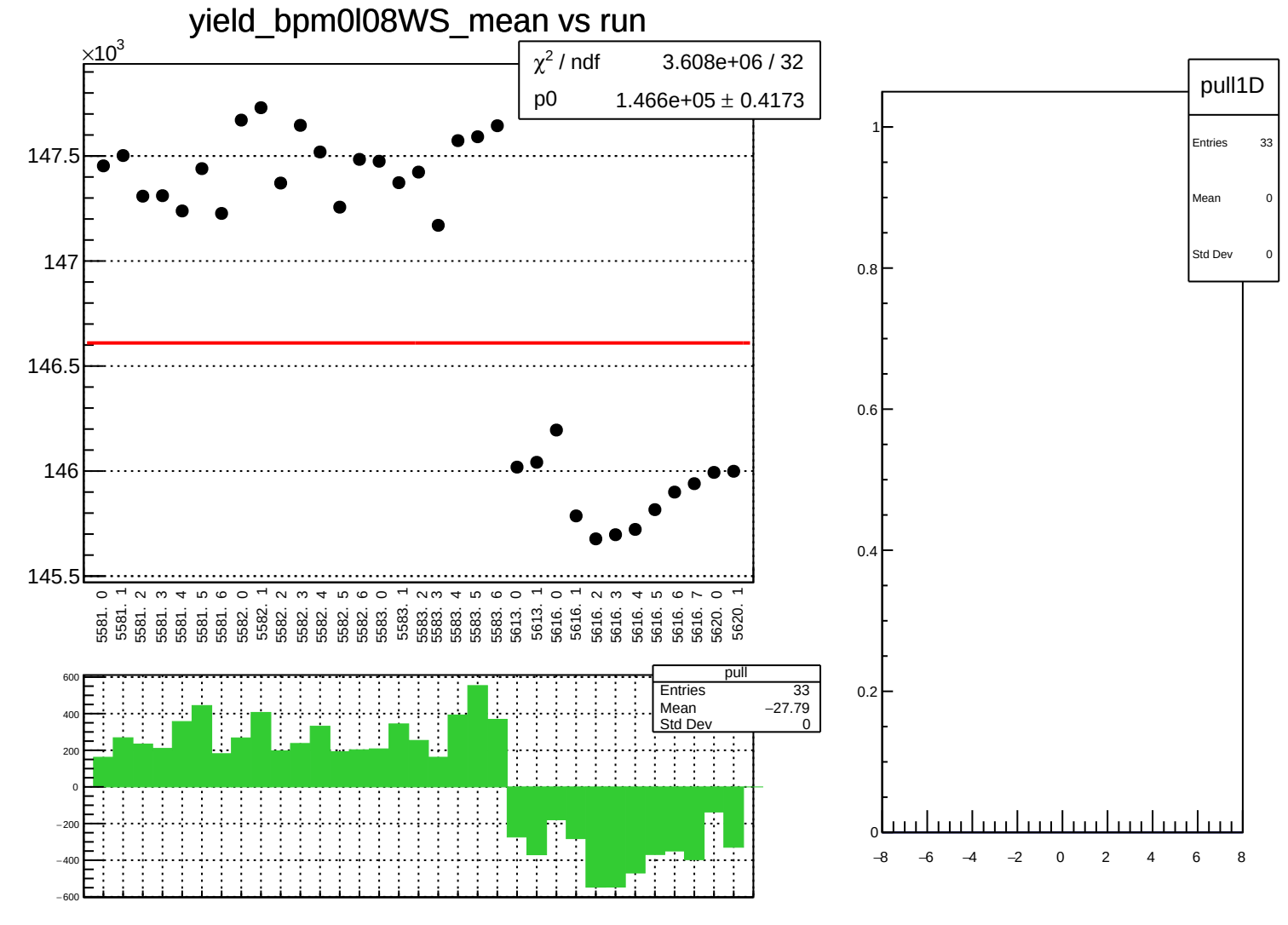

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 2.763e+06 / 32
p0 1.323e+05 ± 0.4094
133
132.5
132
131.5
131
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −19.8
Std Dev 0
400
200
0
−200
−400
−600

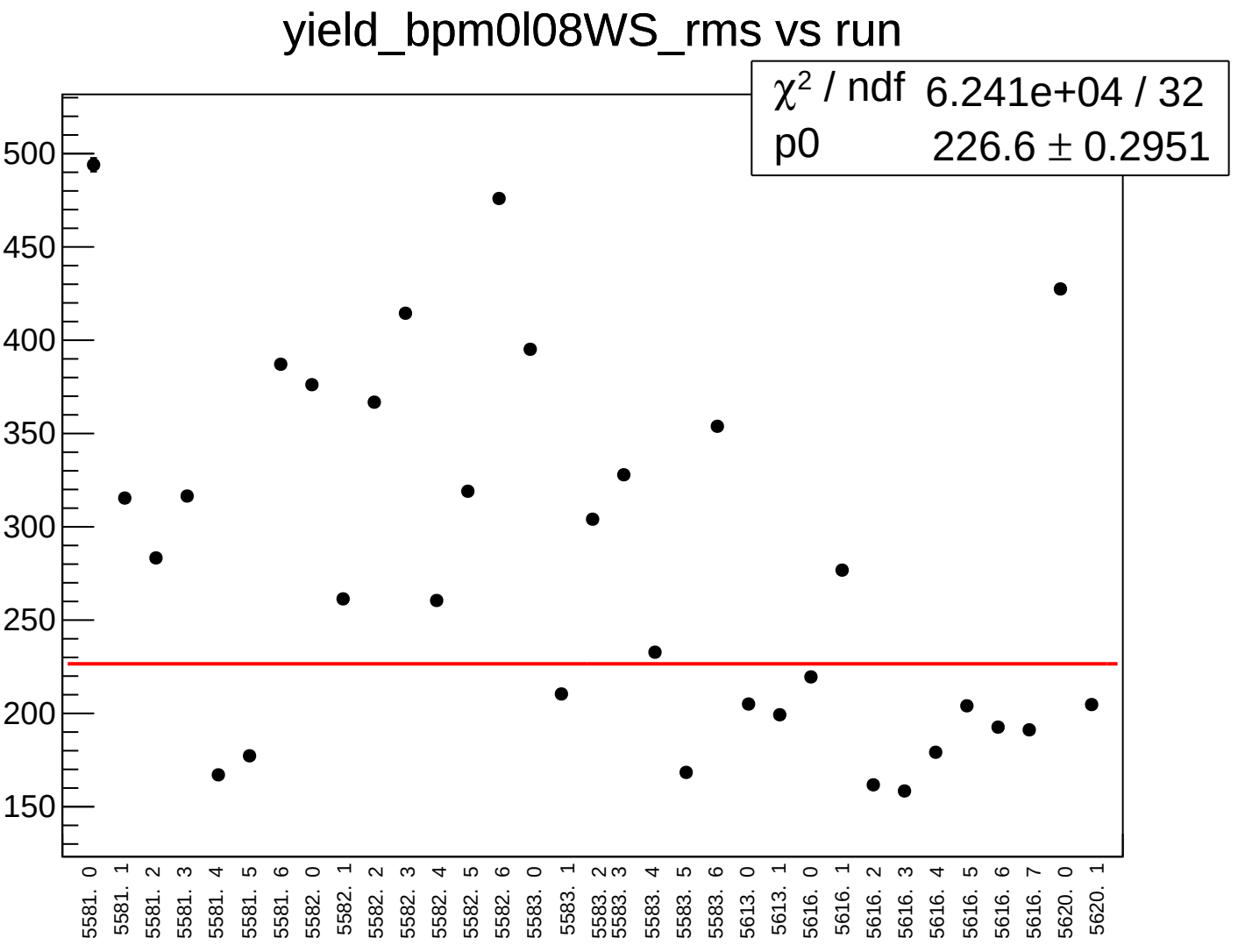

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

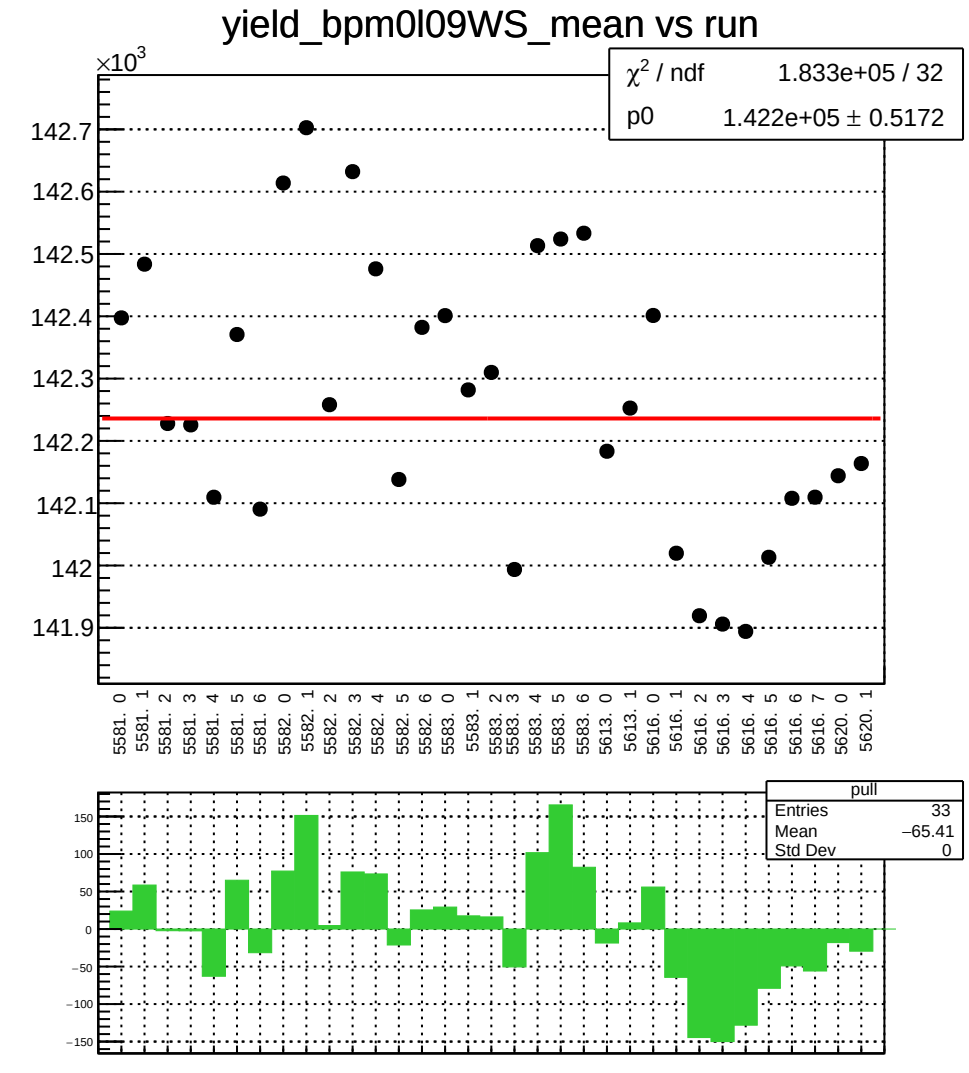

yield_bpm0l06WS_rms vs run
χ² / ndf 1.01e+05 / 32
p0 214.9 ± 0.2895
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

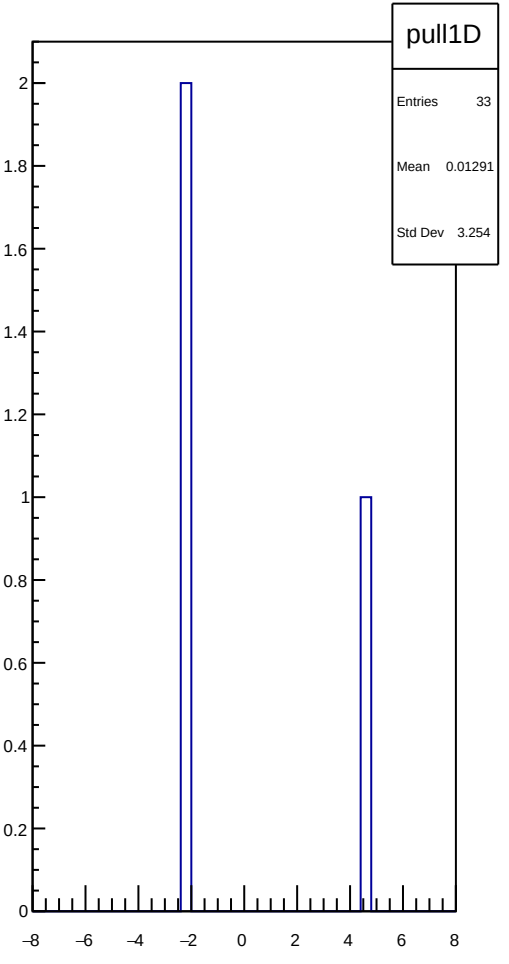

yield_bpm0l07WS_mean vs run
χ² / ndf 8.478e+06 / 32
p0 1.44e+05 ± 0.4198
×10³
146
145.5
145
144.5
144
143.5
143
142.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −23.01
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

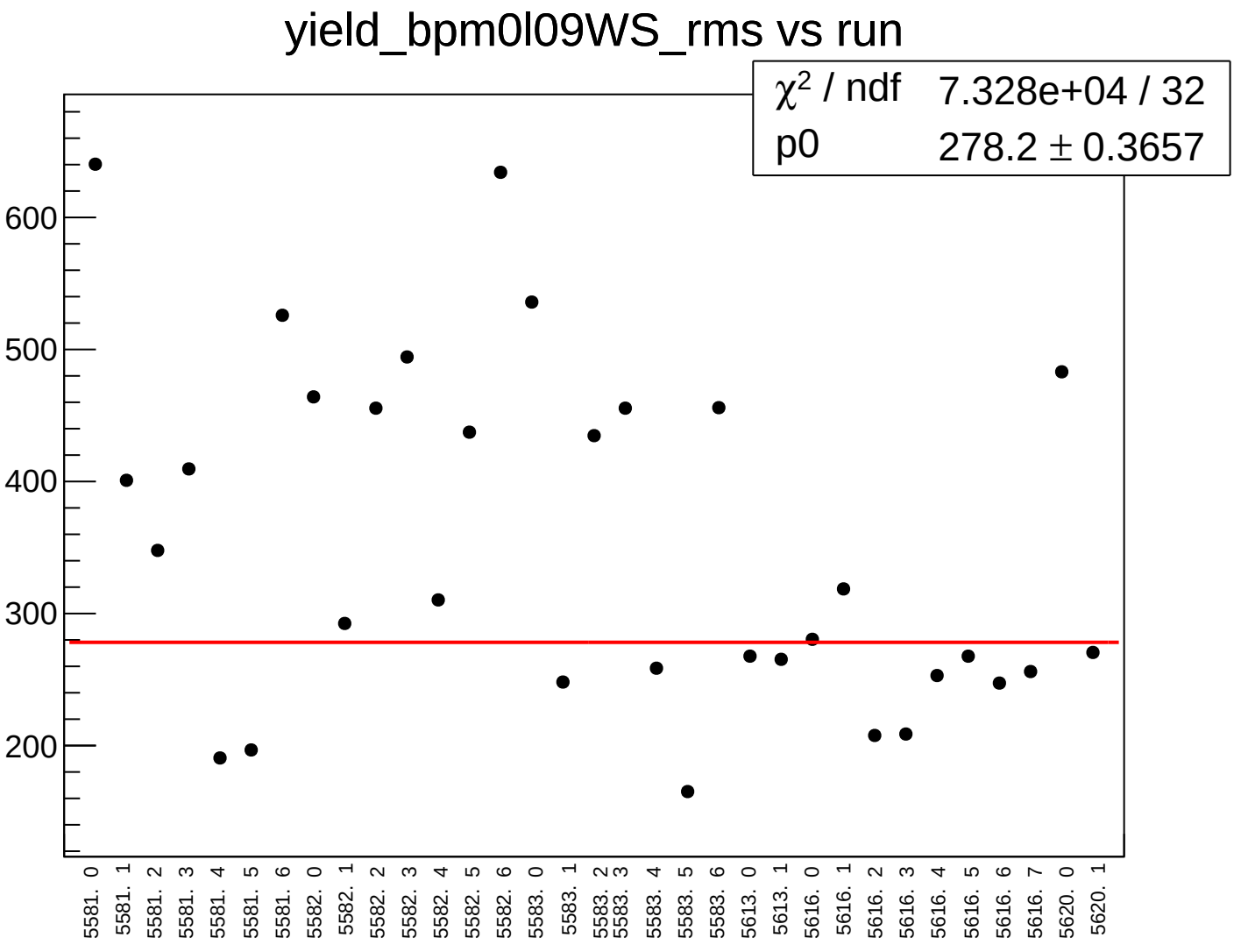

yield_bpm0l07WS_rms vs run
χ² / ndf 7.699e+04 / 32
p0 225.1 ± 0.2968
550
500
450
400
350
300
250
200
150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

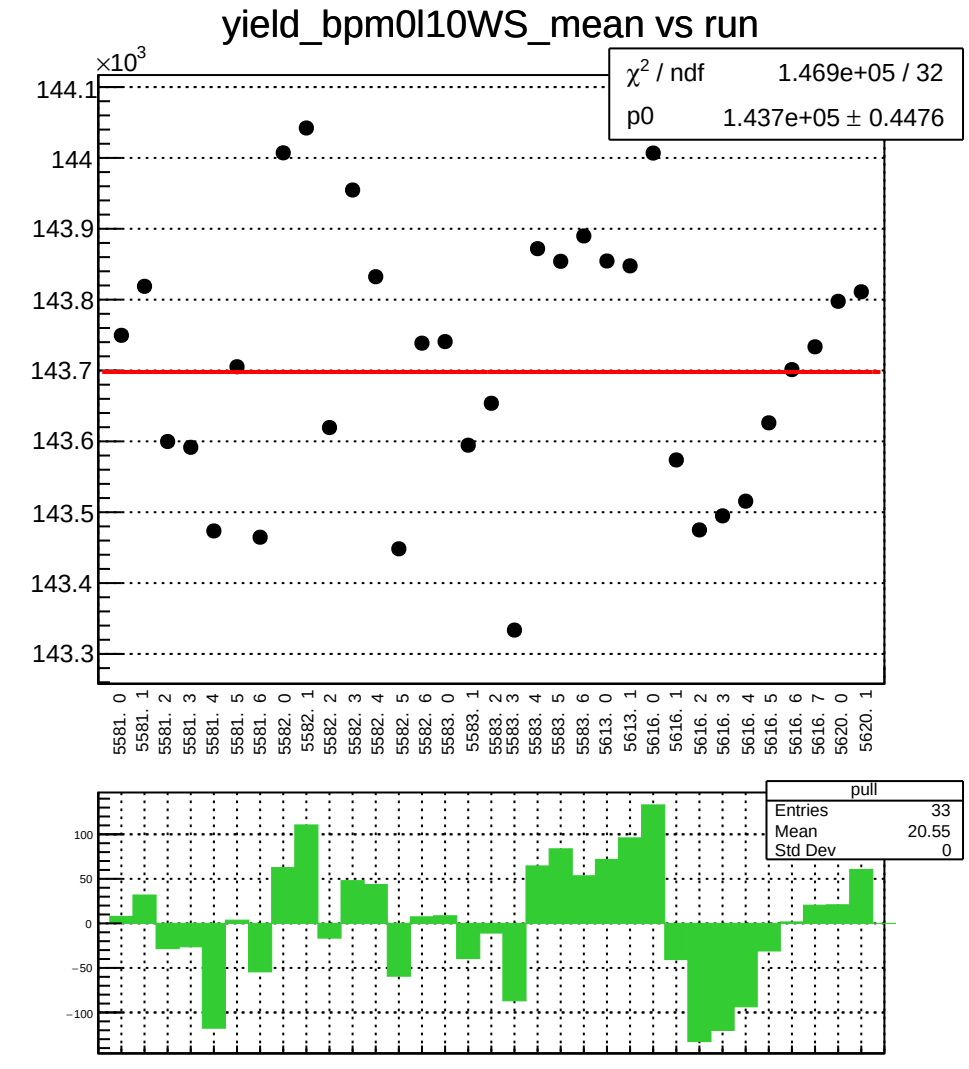

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 3.608e+06 / 32
p0 1.466e+05 ± 0.4173
147.5
147
146.5
146
145.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean –27.79
Std Dev 0
600
400
200
0
–200
–400
–600
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

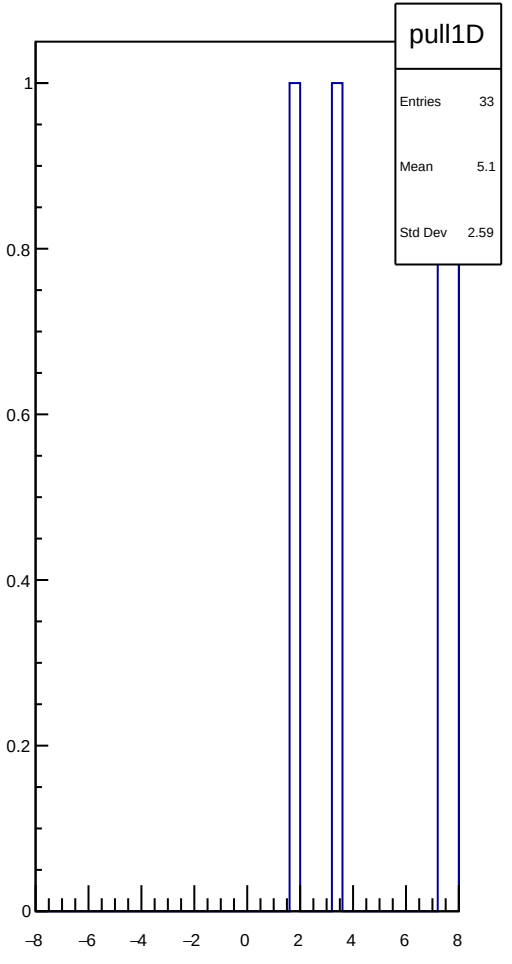

yield_bpm0l08WS_rms vs run
χ² / ndf 6.241e+04 / 32
p0 226.6 ± 0.2951
500
450
400
350
300
250
200
150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

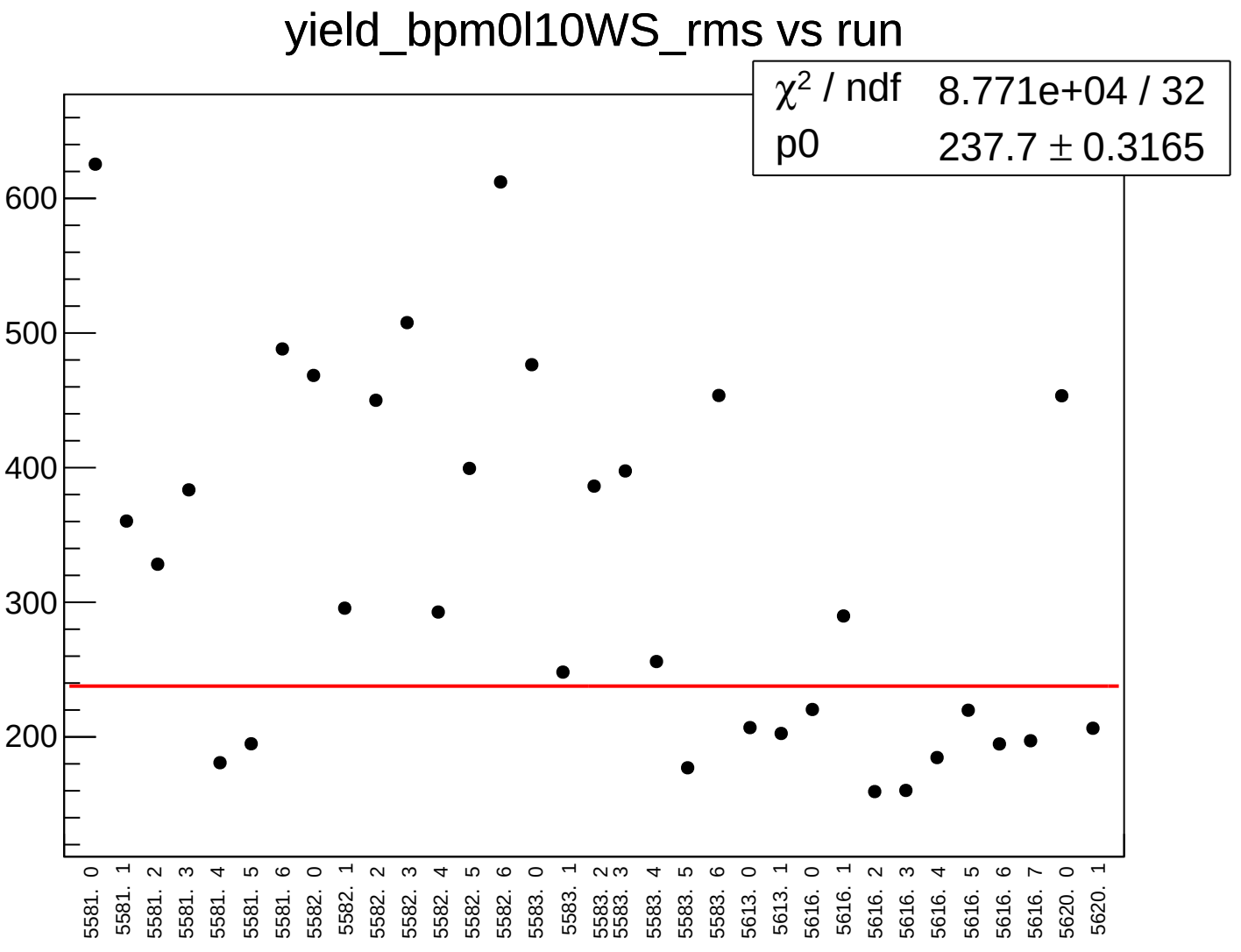

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.833e+05 / 32
p0 1.422e+05 ± 0.5172
142.7
142.6
142.5
142.4
142.3
142.2
142.1
142
141.9
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −65.41
Std Dev 0
150
100
50
0
−50
−100
−150

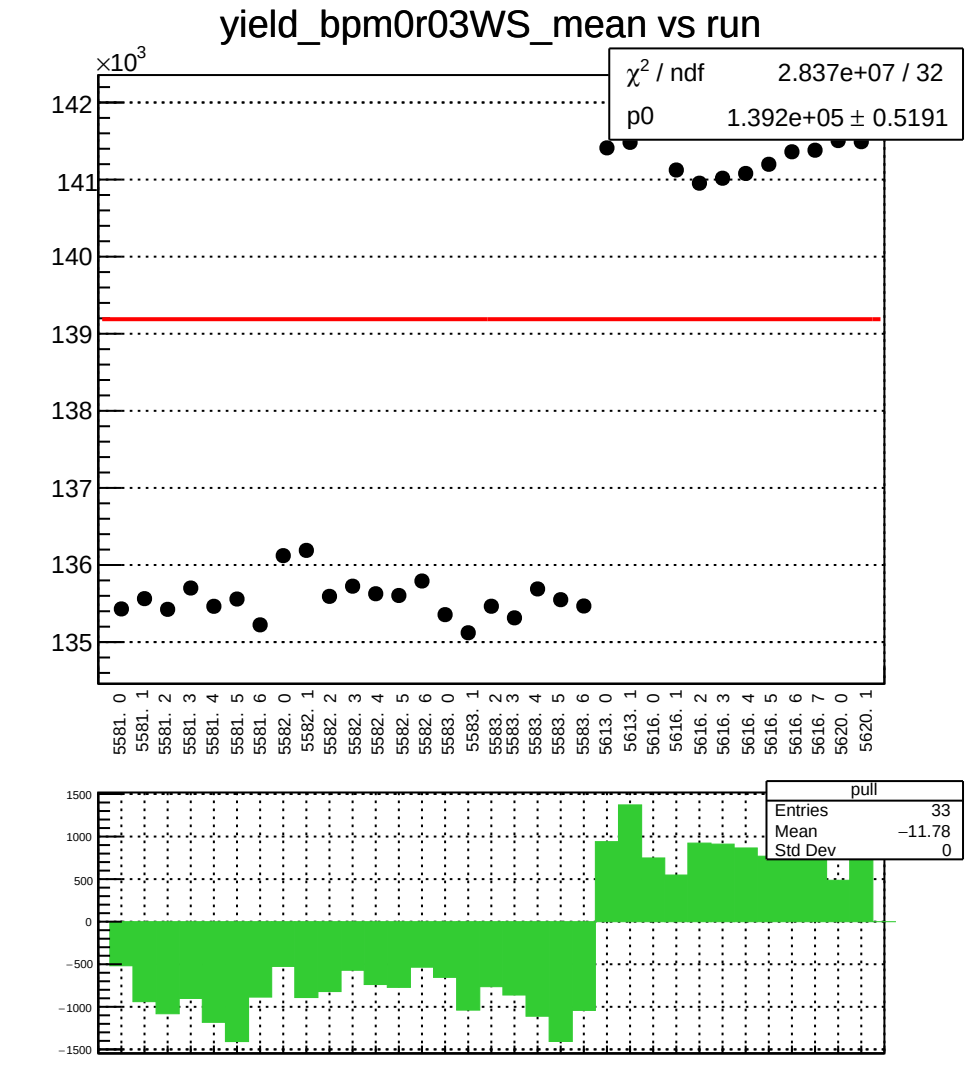

pull1D
Entries 33
Mean 0.01291
Std Dev 3.254
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

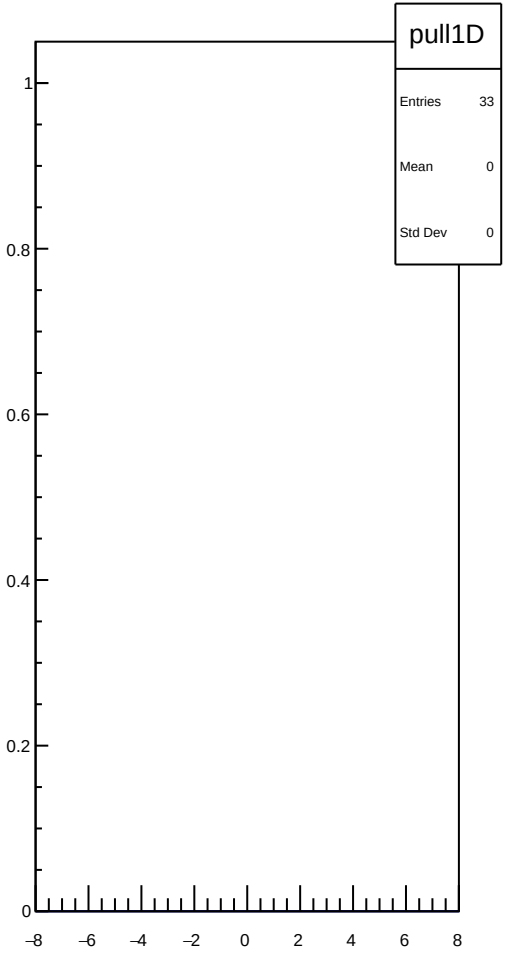

yield_bpm0l09WS_rms vs run
χ² / ndf 7.328e+04 / 32
p0 278.2 ± 0.3657
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

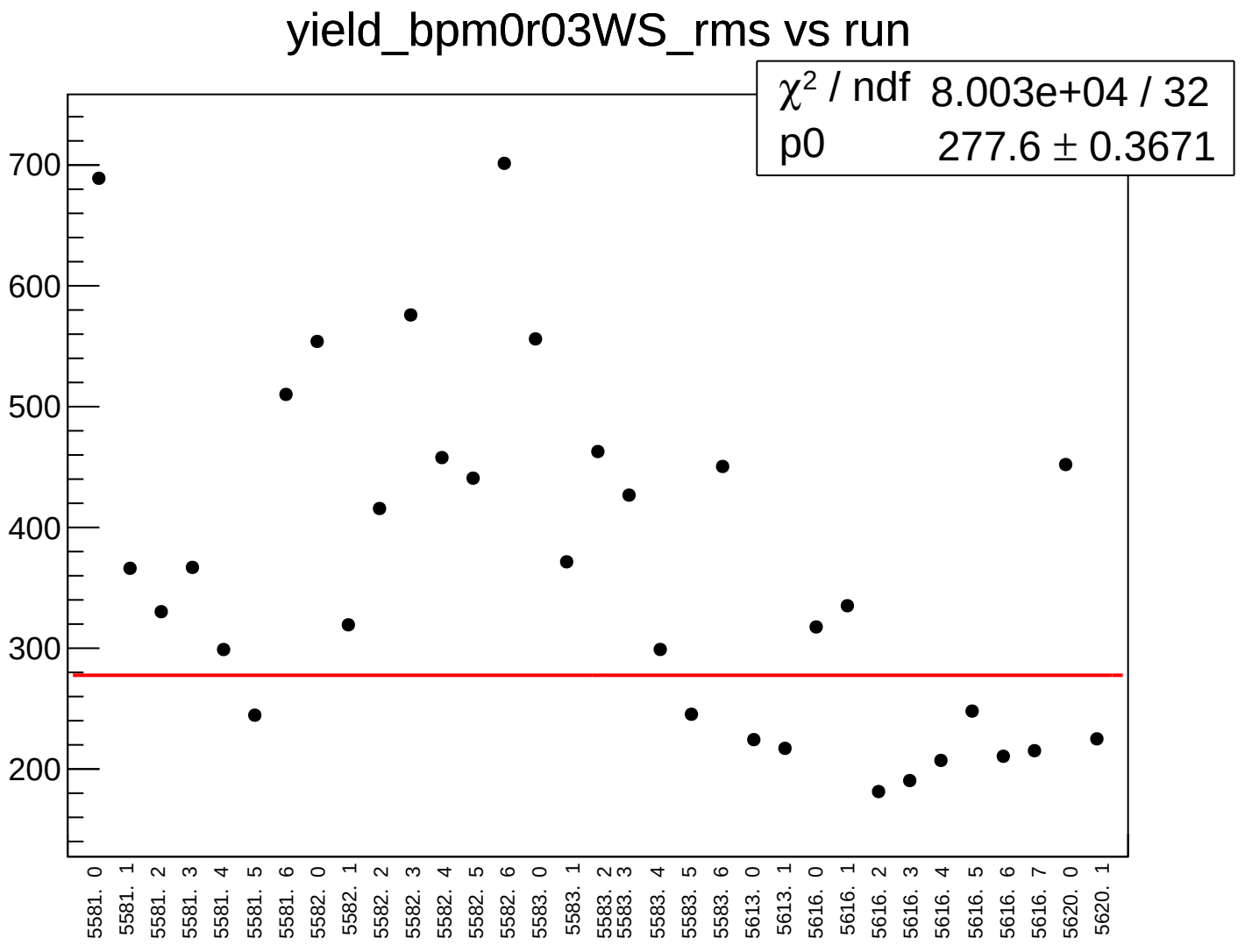

yield_bpm0l10WS_mean vs run
×10^3
χ^2 / ndf 1.469e+05 / 32
p0 1.437e+05 ± 0.4476
144.1
144
143.9
143.8
143.7
143.6
143.5
143.4
143.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.55
Std Dev 0
100
50
0
−50
−100

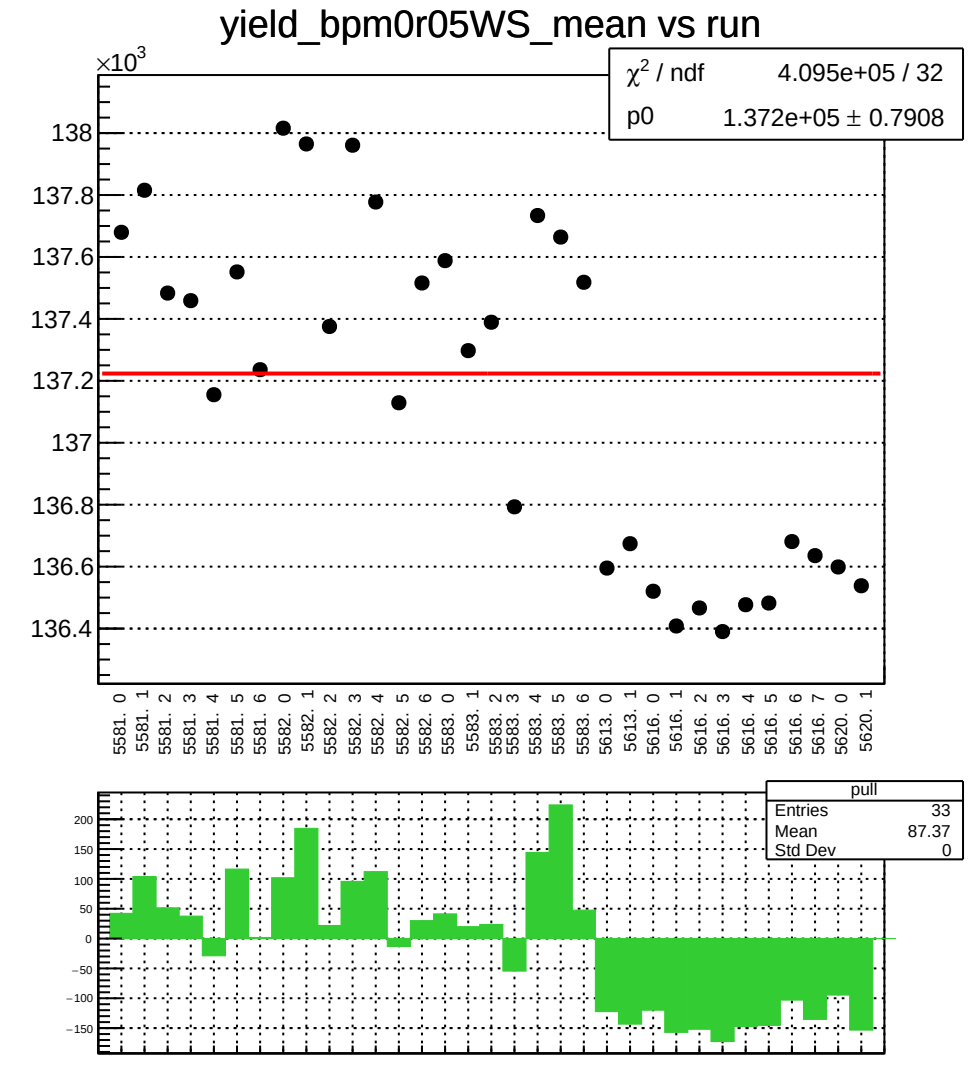

pull1D
Entries 33
Mean 5.1
Std Dev 2.59
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

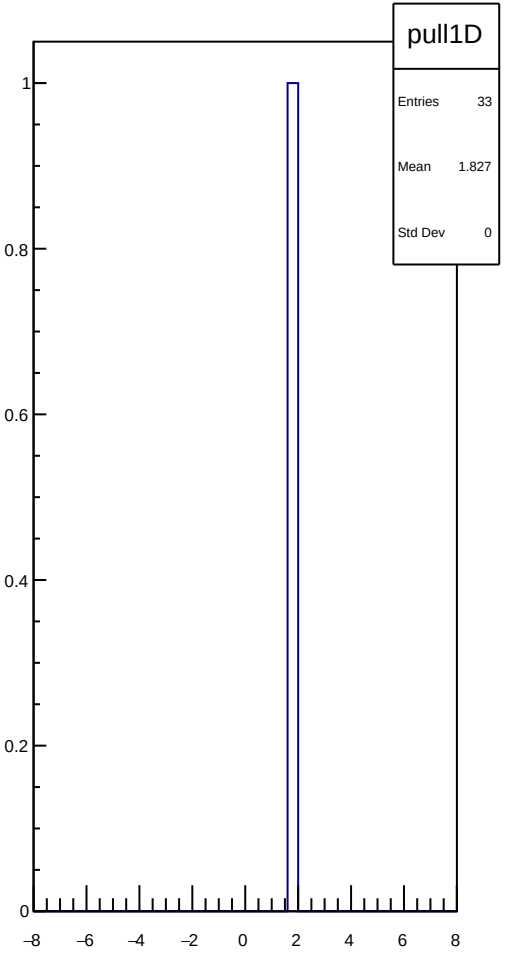

yield_bpm0l10WS_rms vs run
χ² / ndf 8.771e+04 / 32
p0 237.7 ± 0.3165
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

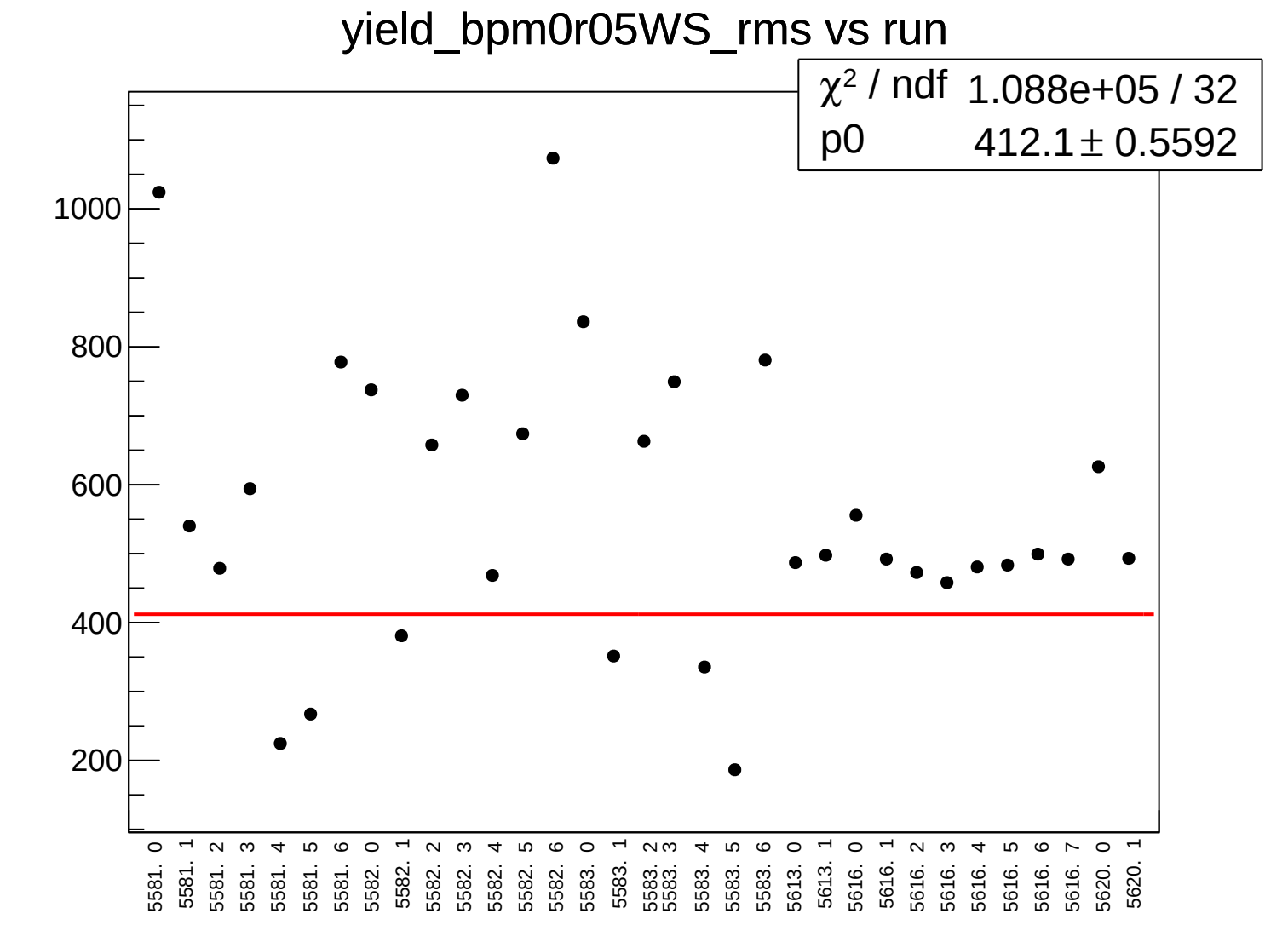

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 2.837e+07 / 32
p0 1.392e+05 ± 0.5191
142
141
140
139
138
137
136
135
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −11.78
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

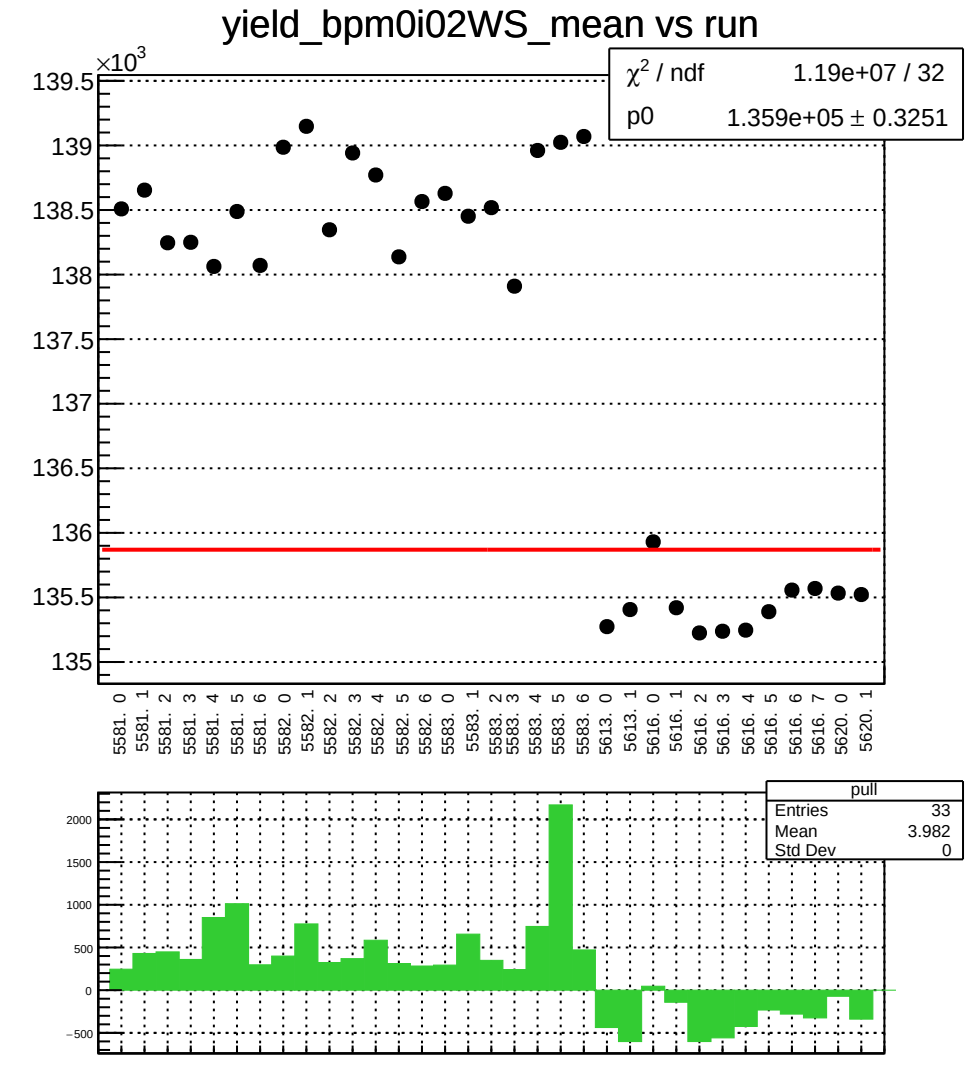

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

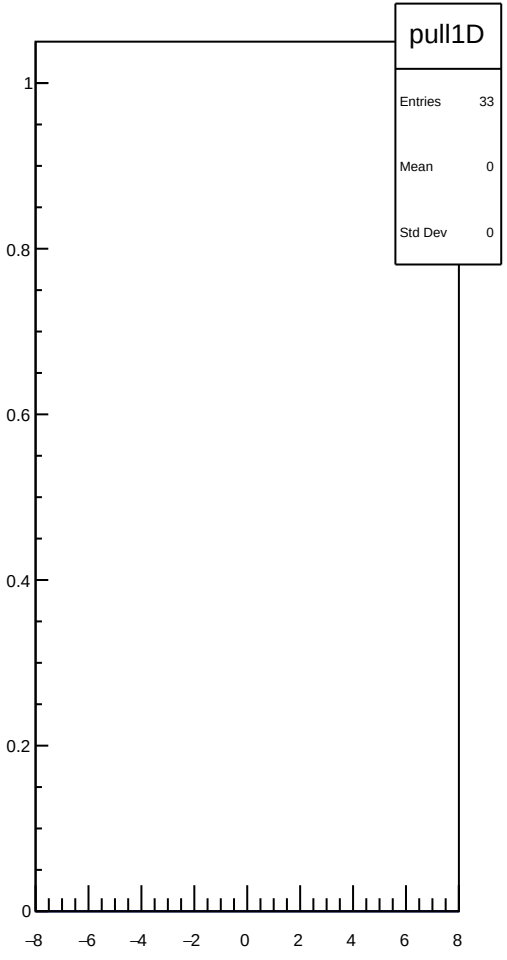

yield_bpm0r03WS_rms vs run
χ² / ndf 8.003e+04 / 32
p0 277.6 ± 0.3671
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

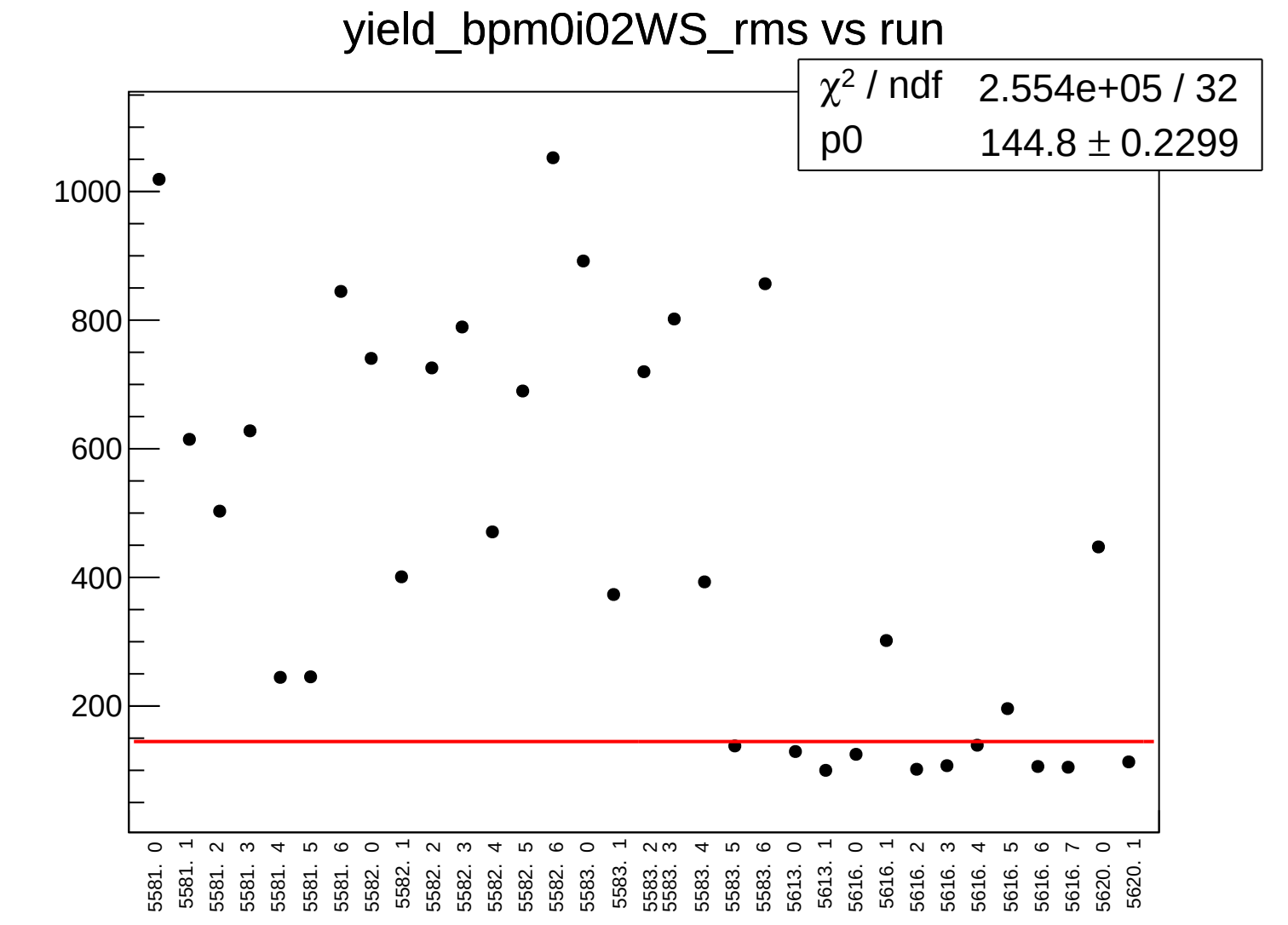

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 4.095e+05 / 32
p0 1.372e+05 ± 0.7908
138
137.8
137.6
137.4
137.2
137
136.8
136.6
136.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 87.37
Std Dev 0
200
150
100
50
0
−50
−100
−150

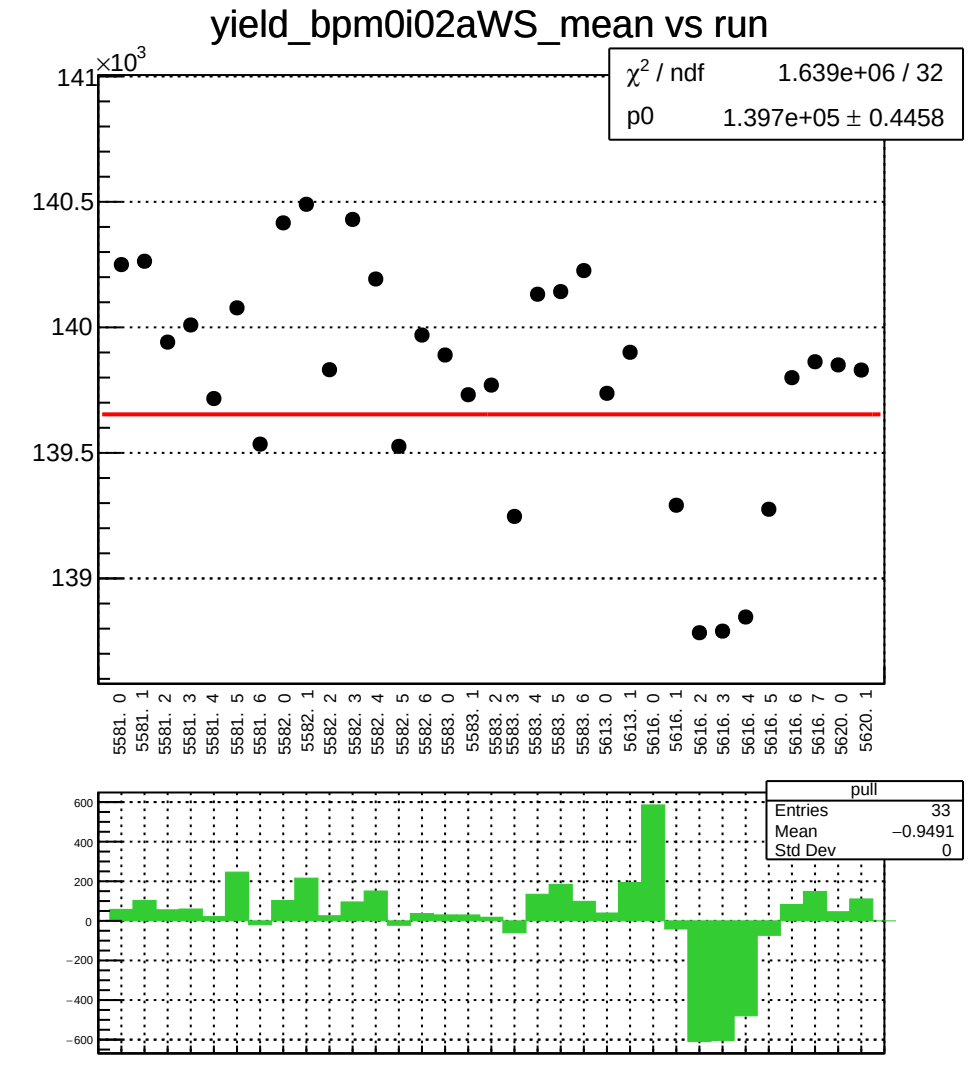

pull1D
Entries 33
Mean 1.827
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

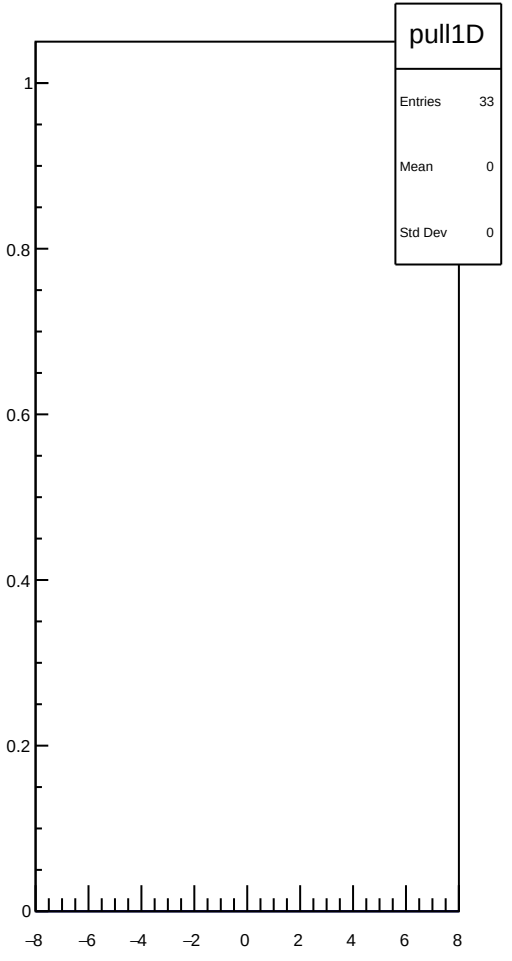

yield_bpm0r05WS_rms vs run
χ² / ndf 1.088e+05 / 32
p0 412.1 ± 0.5592
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

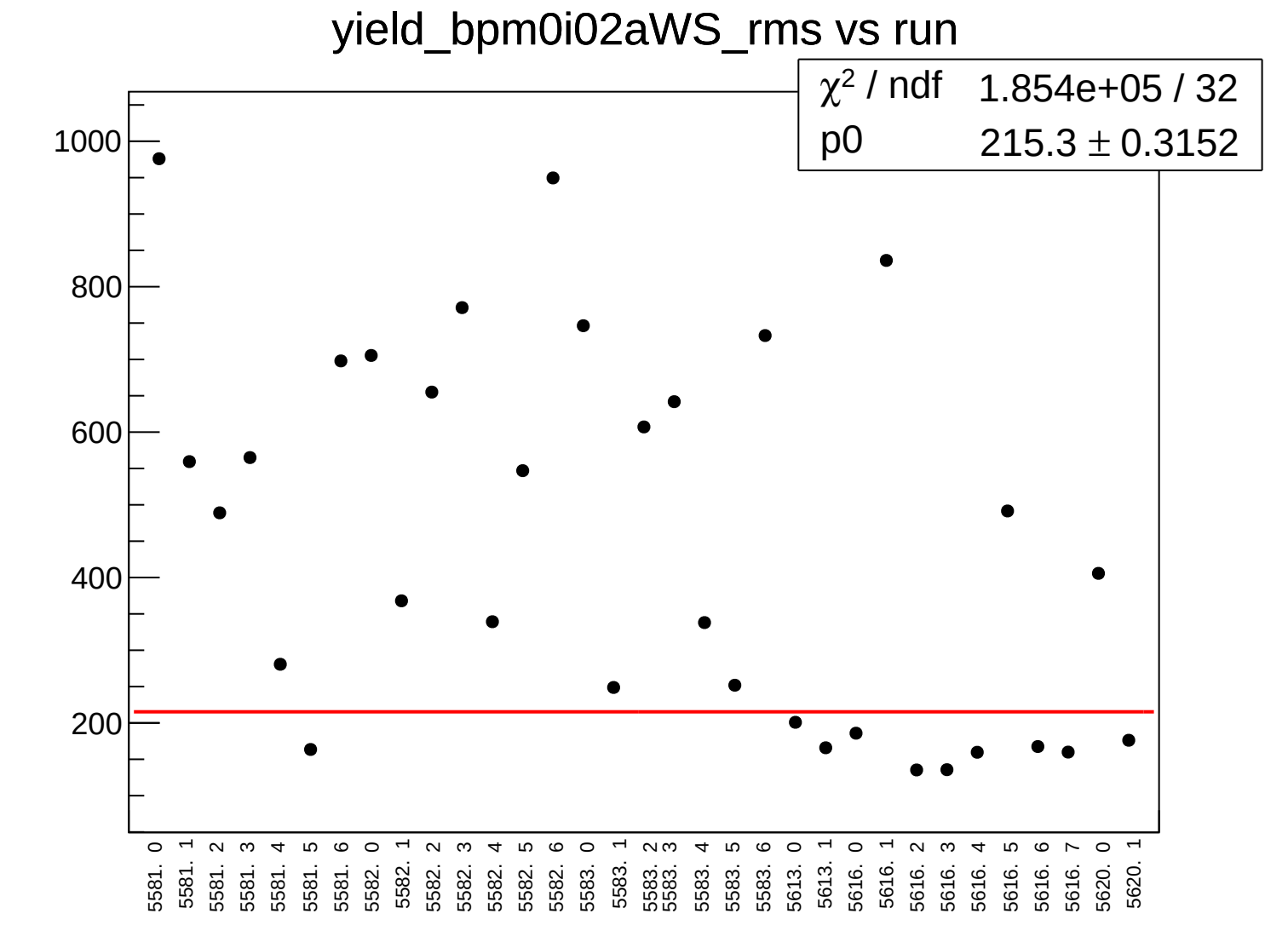

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 1.19e+07 / 32
p0 1.359e+05 ± 0.3251
139.5
139
138.5
138
137.5
137
136.5
136
135.5
135
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 3.982
Std Dev 0
2000
1500
1000
500
0
−500

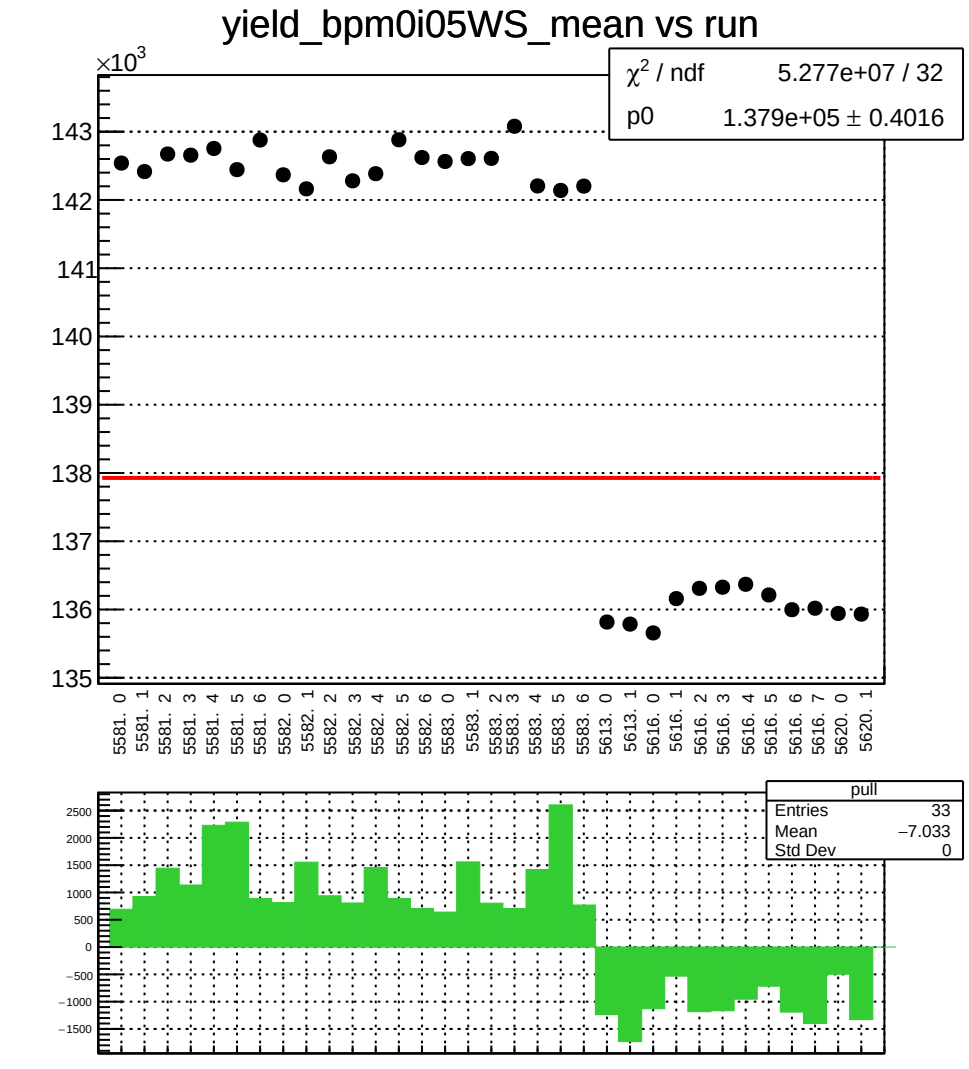

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

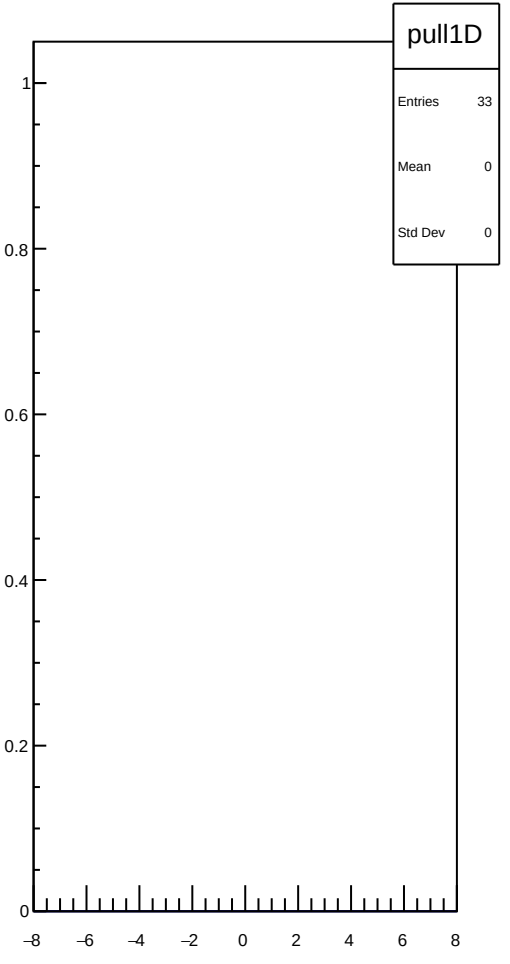

yield_bpm0i02WS_rms vs run
χ² / ndf 2.554e+05 / 32
p0 144.8 ± 0.2299
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

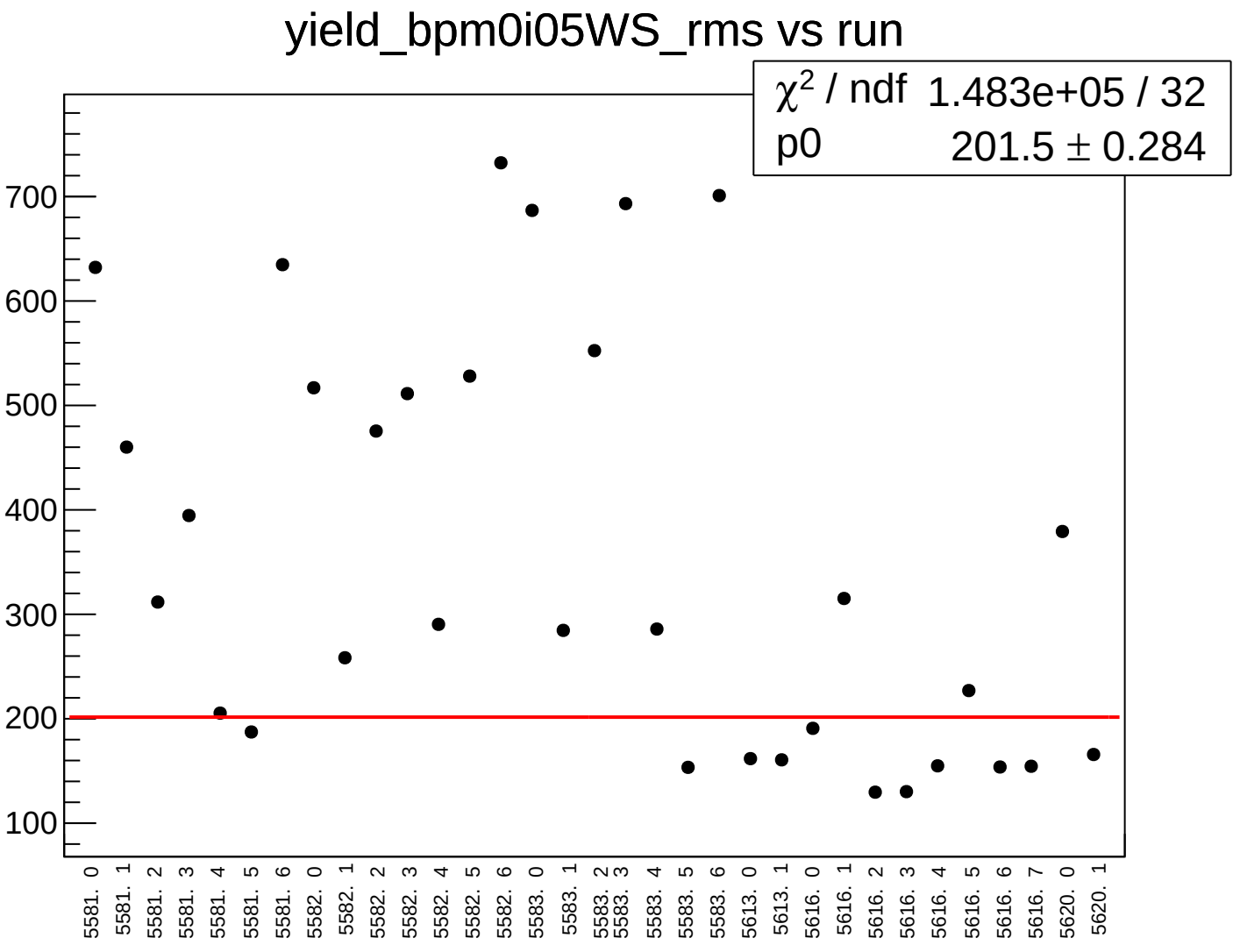

yield_bpm0i02aWS_mean vs run
×10^3
141
140.5
140
139.5
139
χ² / ndf 1.639e+06 / 32
p0 1.397e+05 ± 0.4458
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.9491
Std Dev 0
600
400
200
0
−200
−400
−600

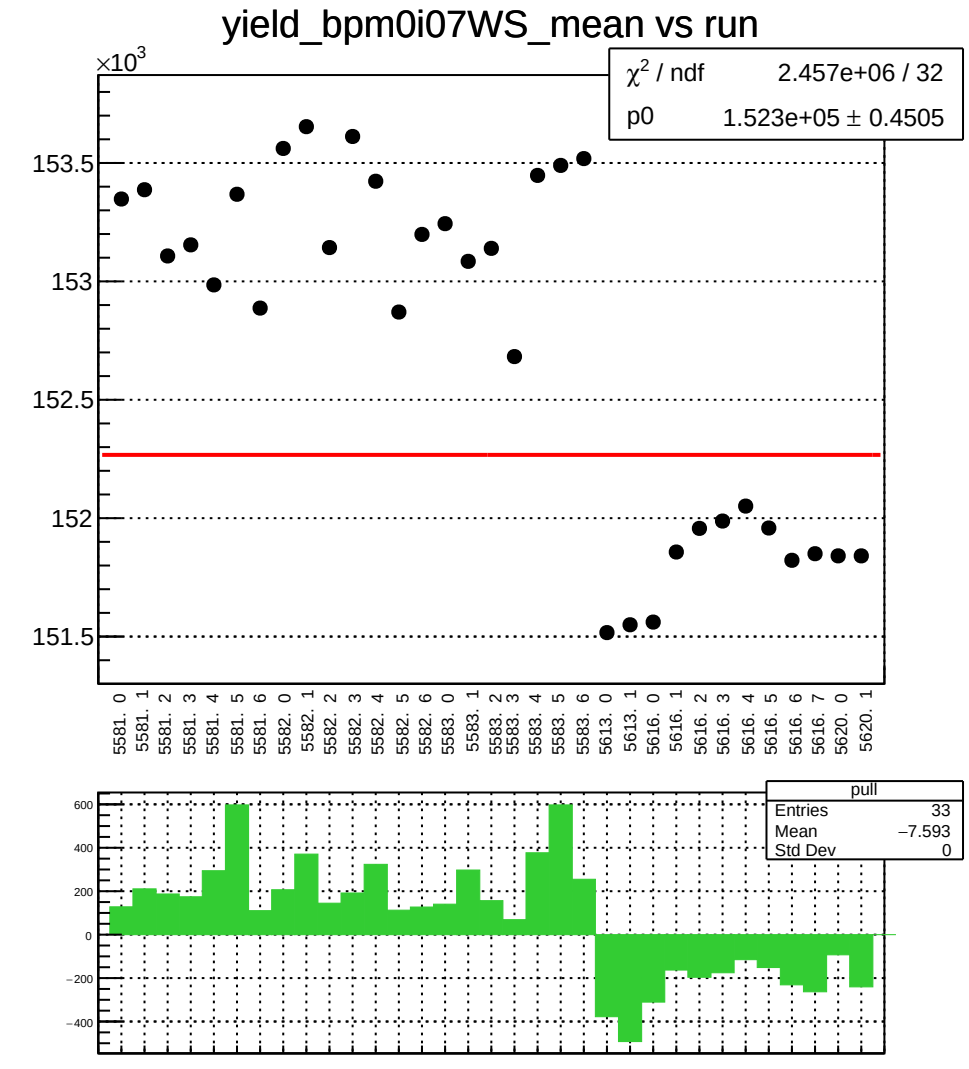

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

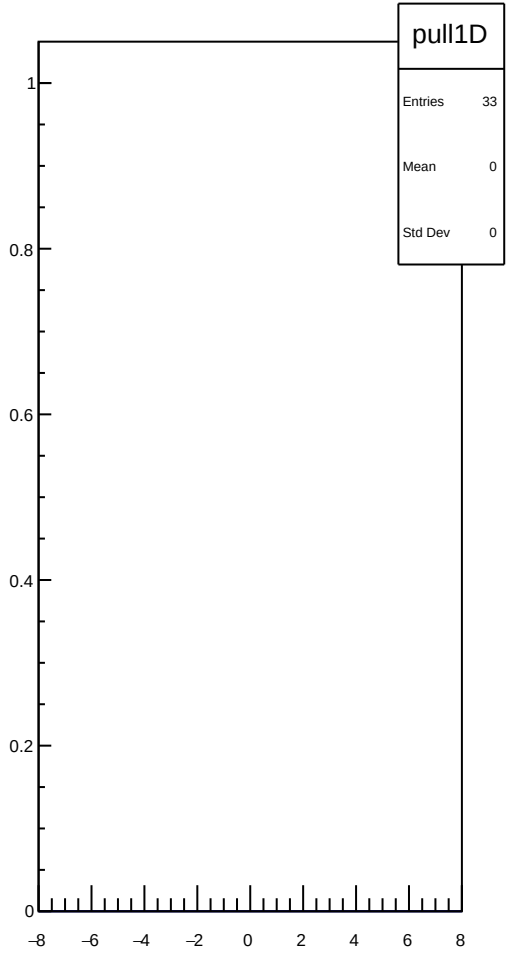

yield_bpm0i02aWS_rms vs run
χ² / ndf 1.854e+05 / 32
p0 215.3 ± 0.3152
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

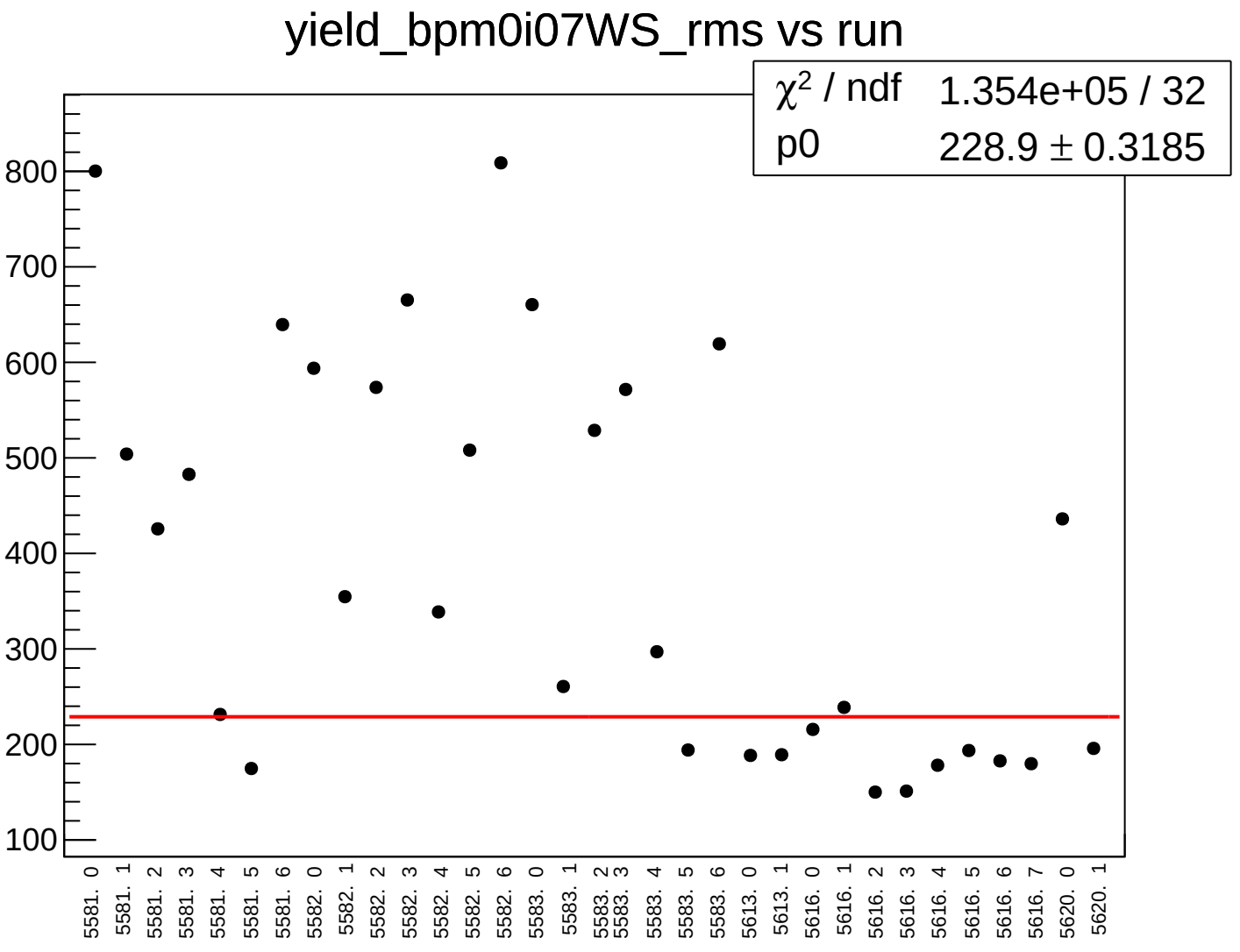

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 5.277e+07 / 32
p0 1.379e+05 ± 0.4016
143
142
141
140
139
138
137
136
135
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −7.033
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000
−1500

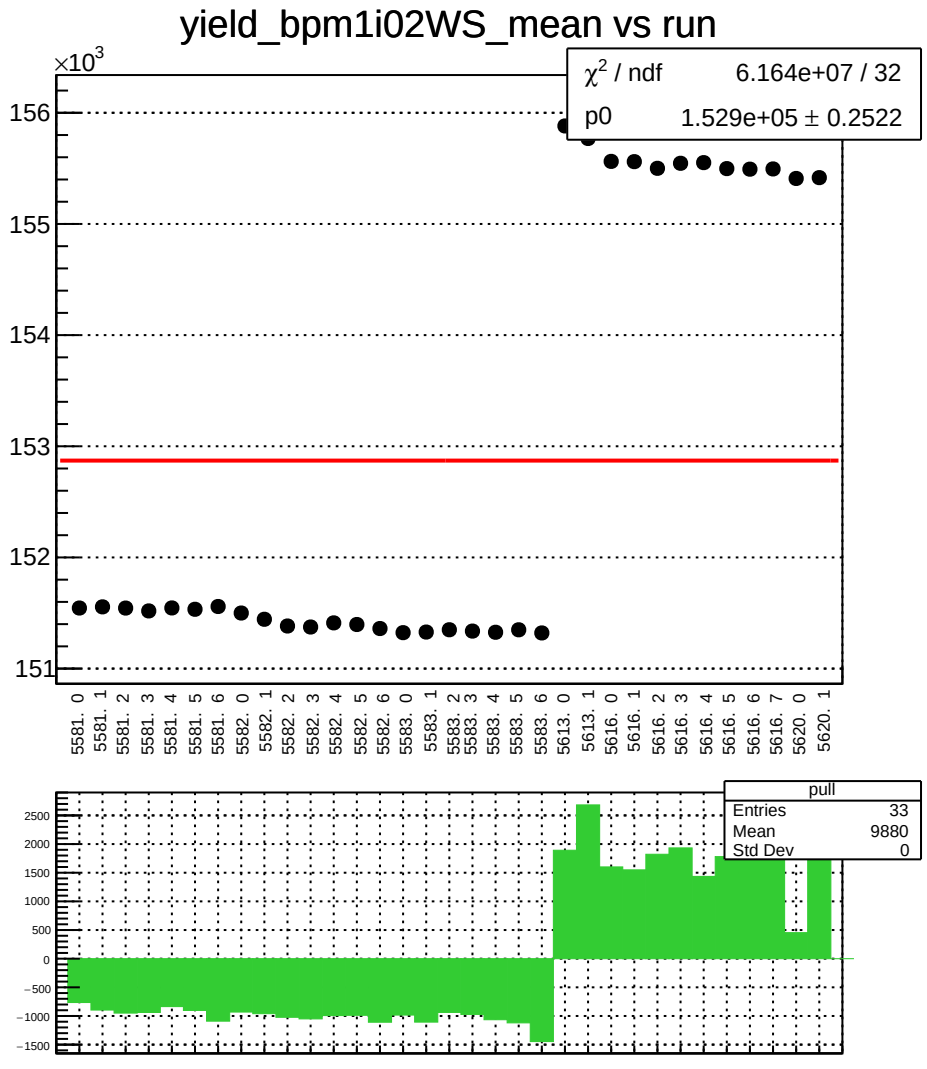

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

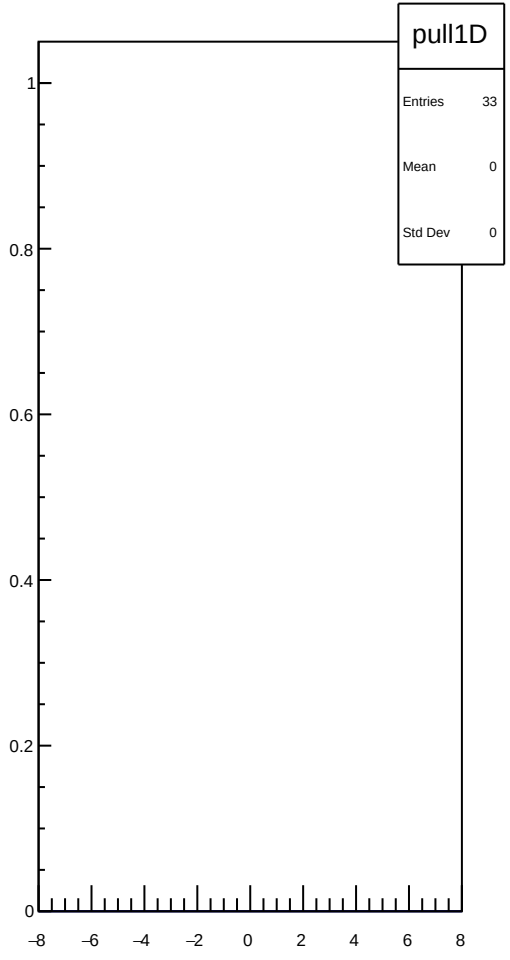

yield_bpm0i05WS_rms vs run
χ² / ndf 1.483e+05 / 32
p0 201.5 ± 0.284
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

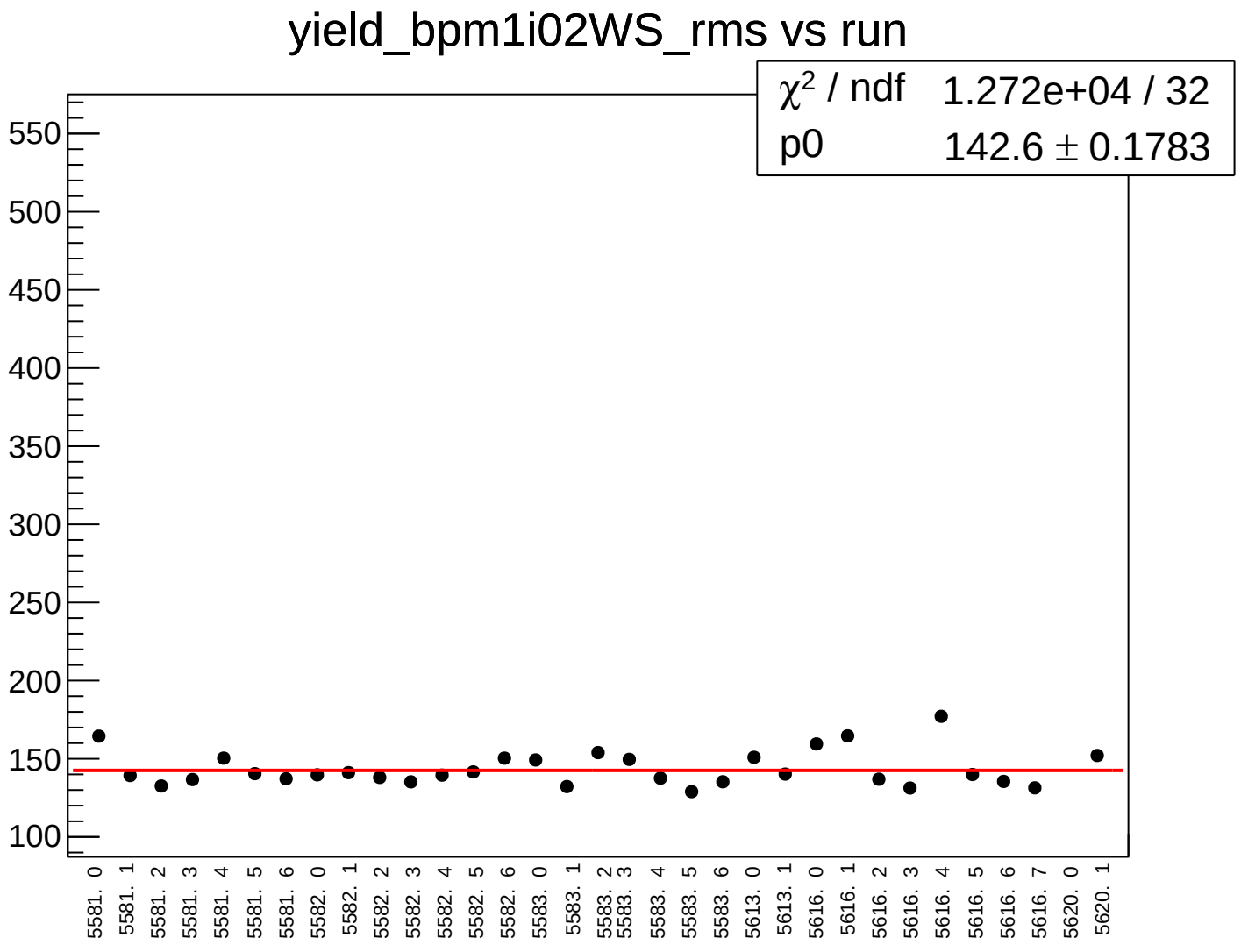

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 2.457e+06 / 32
p0 1.523e+05 ± 0.4505
153.5
153
152.5
152
151.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −7.593
Std Dev 0
600
400
200
0
−200
−400

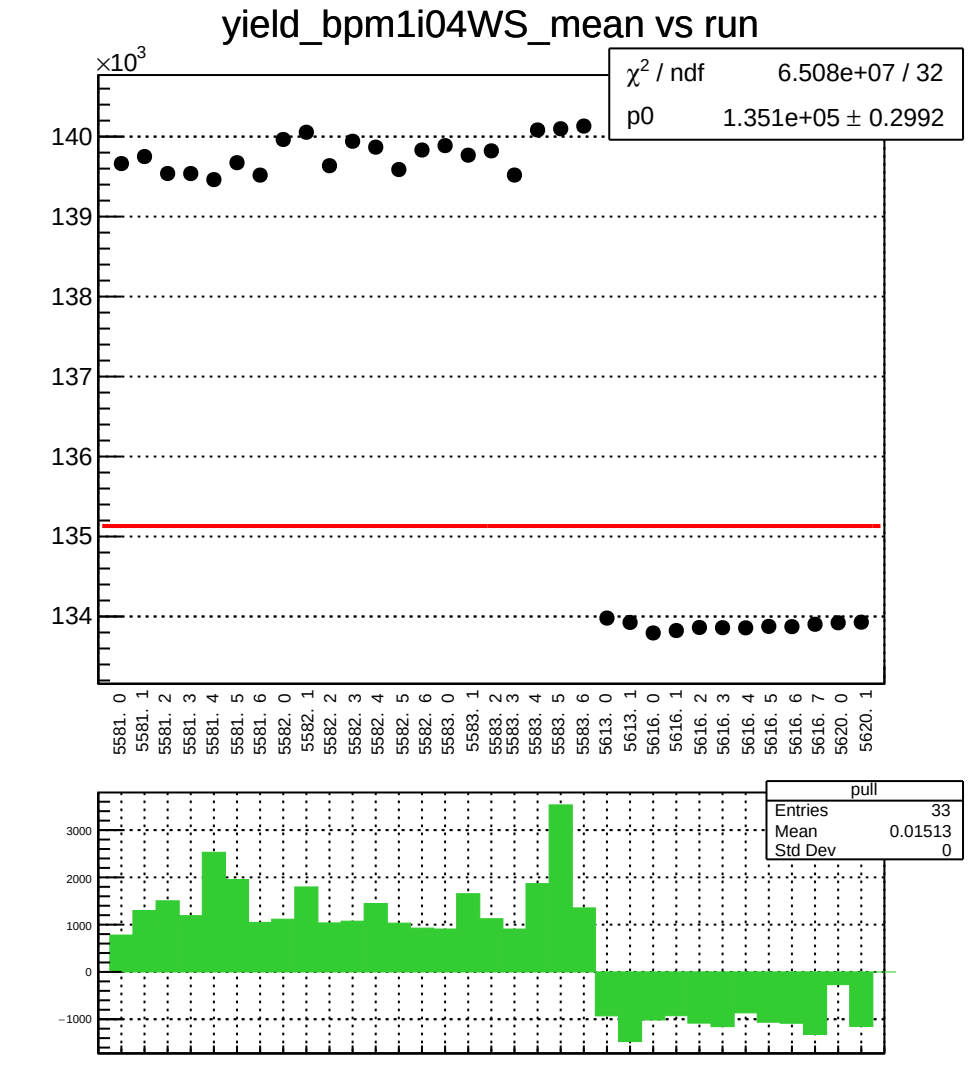

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

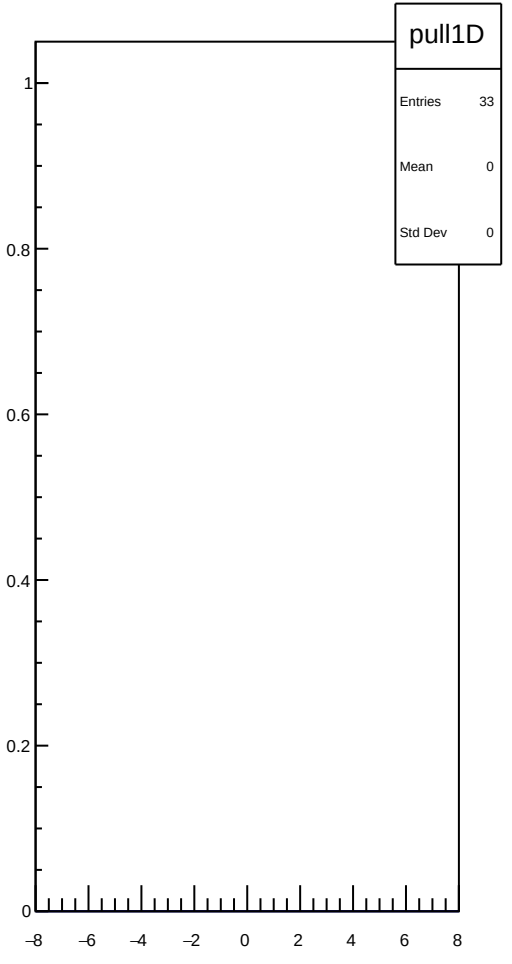

yield_bpm0i07WS_rms vs run
χ² / ndf 1.354e+05 / 32
p0 228.9 ± 0.3185
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

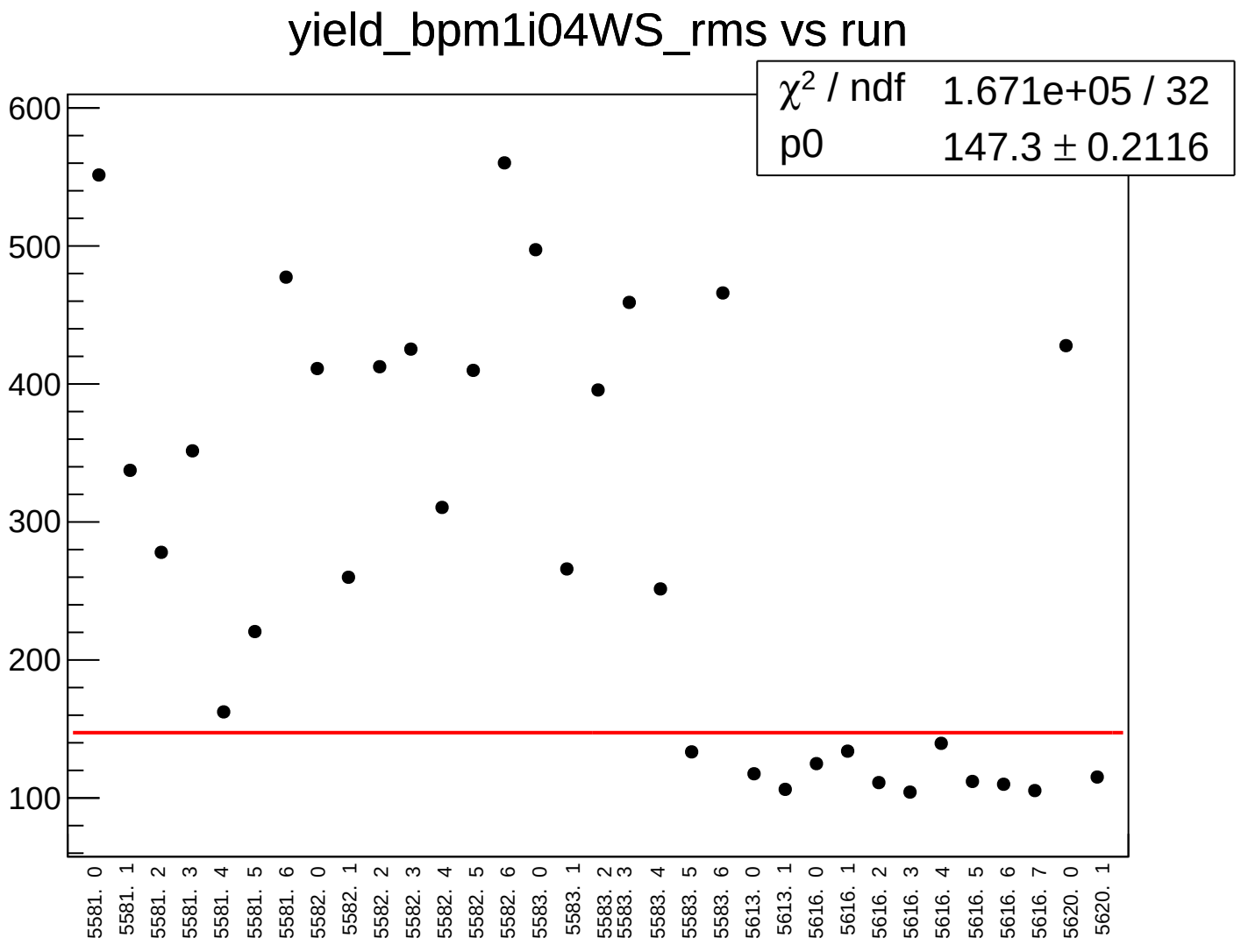

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 6.164e+07 / 32
p0 1.529e+05 ± 0.2522
156
155
154
153
152
151
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 9880
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000
−1500

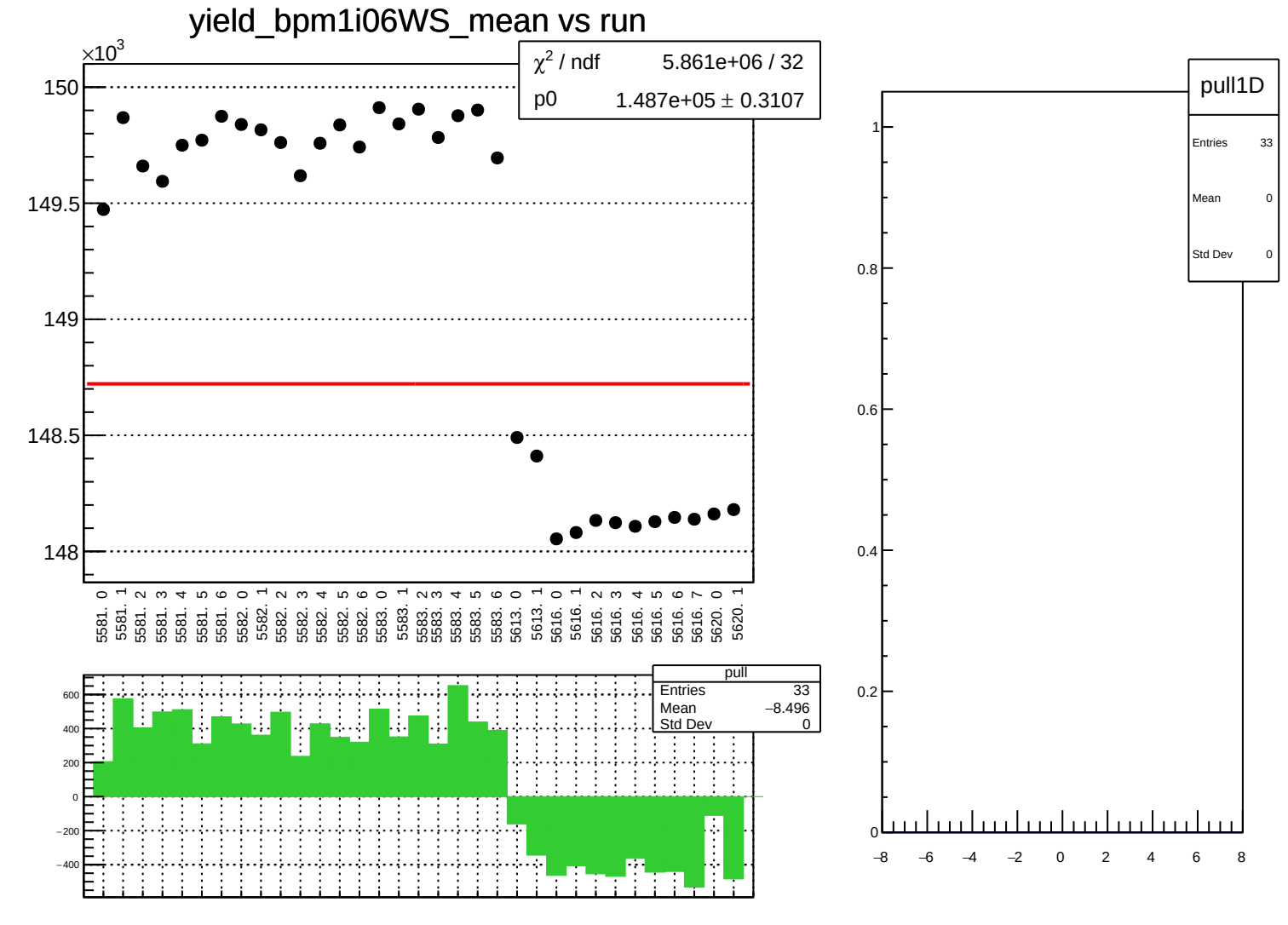

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

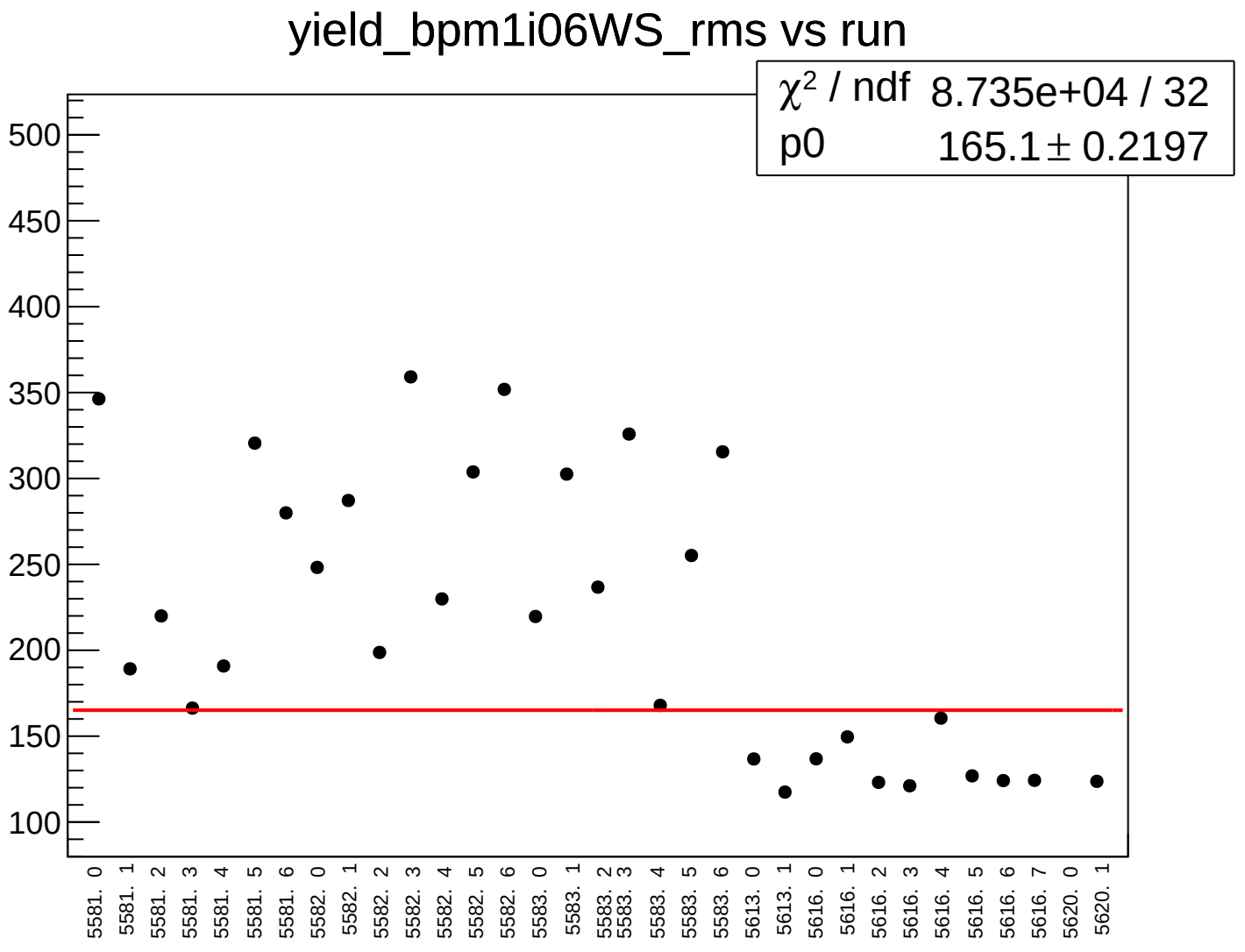

yield_bpm1i02WS_rms vs run
χ² / ndf 1.272e+04 / 32
p0 142.6 ± 0.1783
550
500
450
400
350
300
250
200
150
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

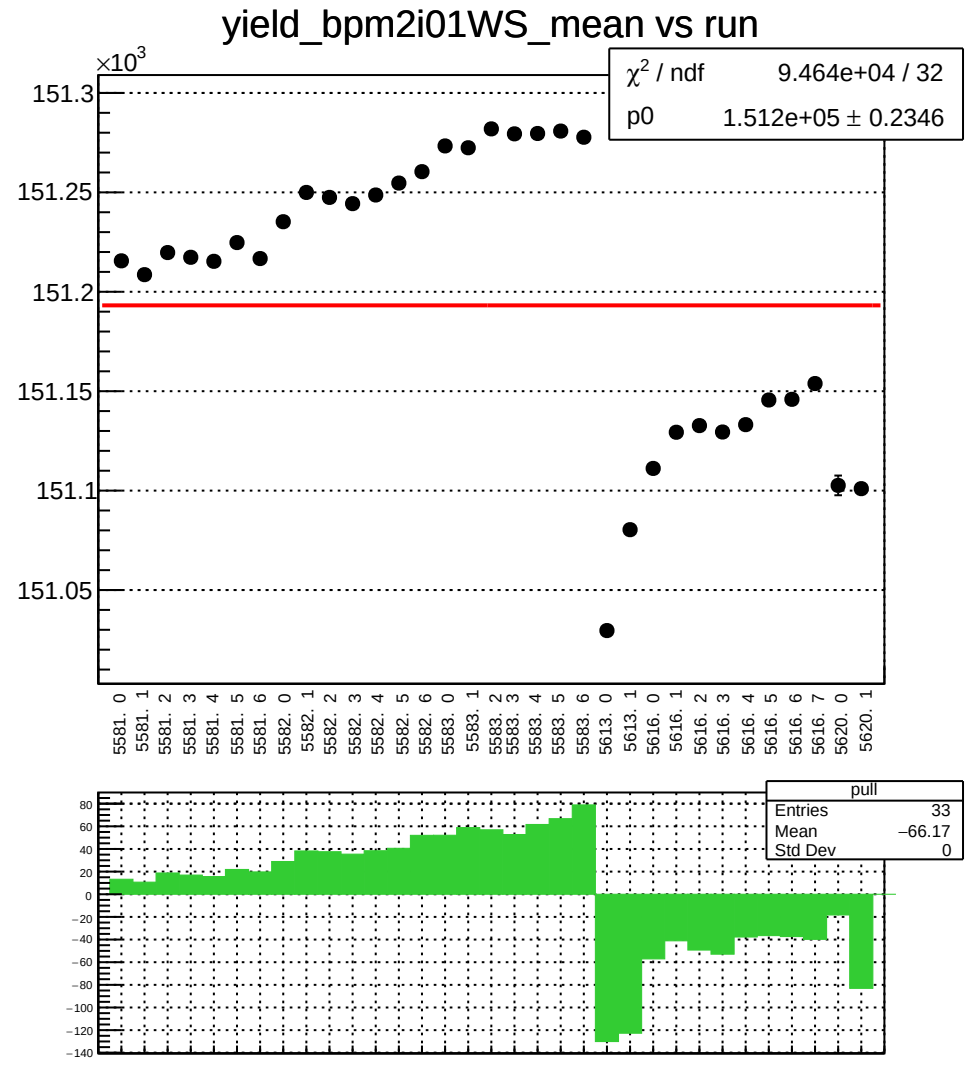

yield_bpm1i04WS_mean vs run
×10^3
χ^2 / ndf 6.508e+07 / 32
p0 1.351e+05 ± 0.2992
140
139
138
137
136
135
134
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 0.01513
Std Dev 0
3000
2000
1000
0
−1000

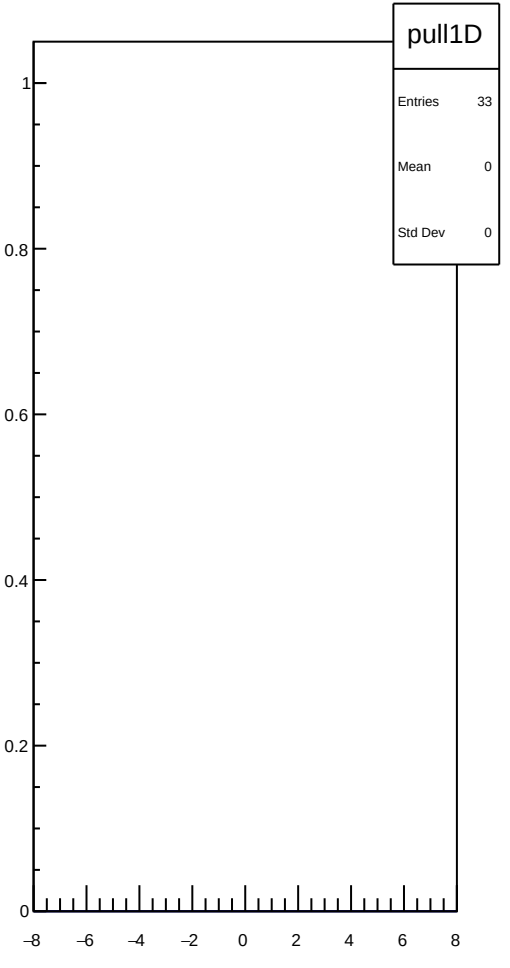

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

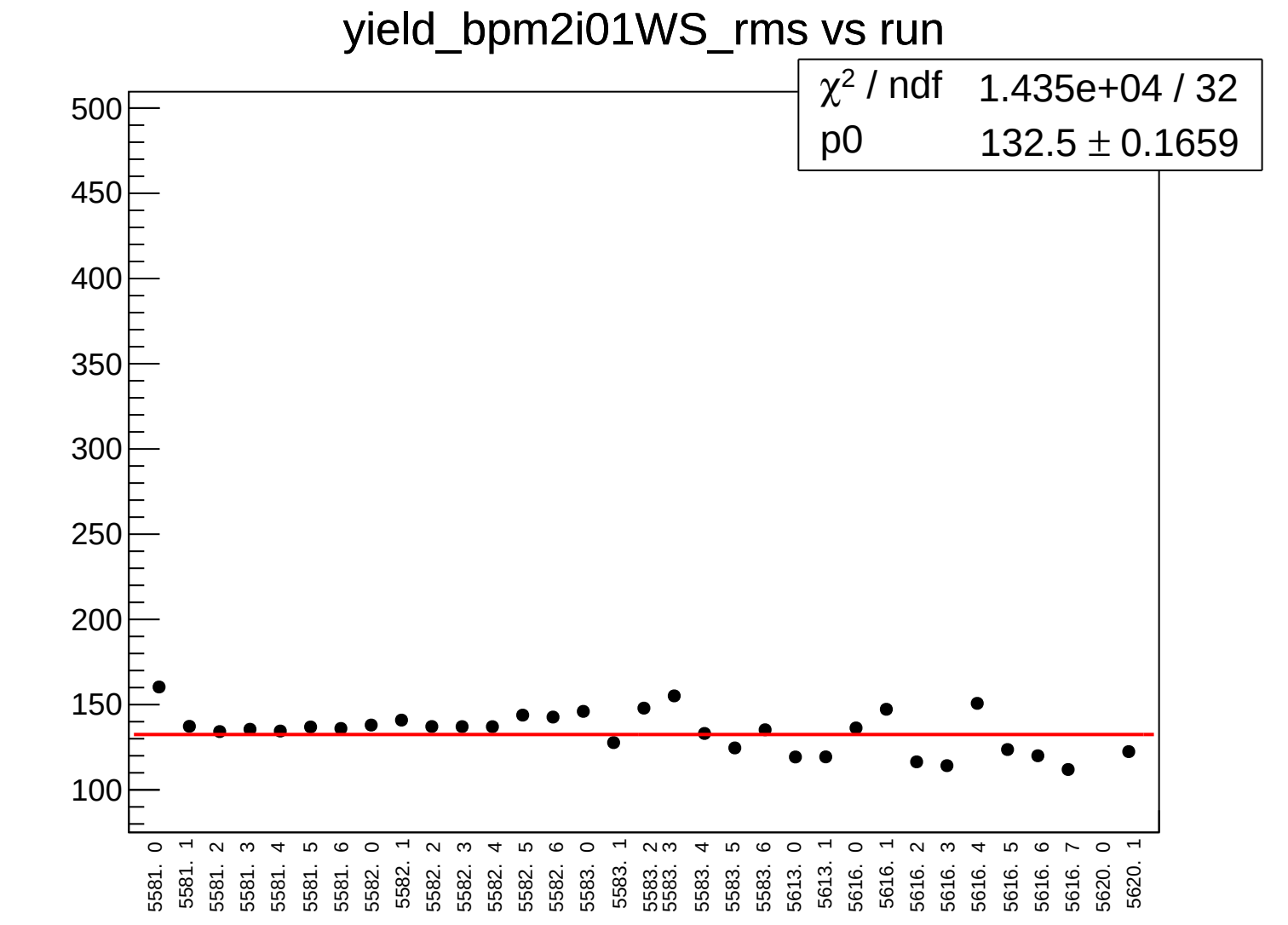

yield_bpm1i04WS_rms vs run
χ² / ndf 1.671e+05 / 32
p0 147.3 ± 0.2116
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

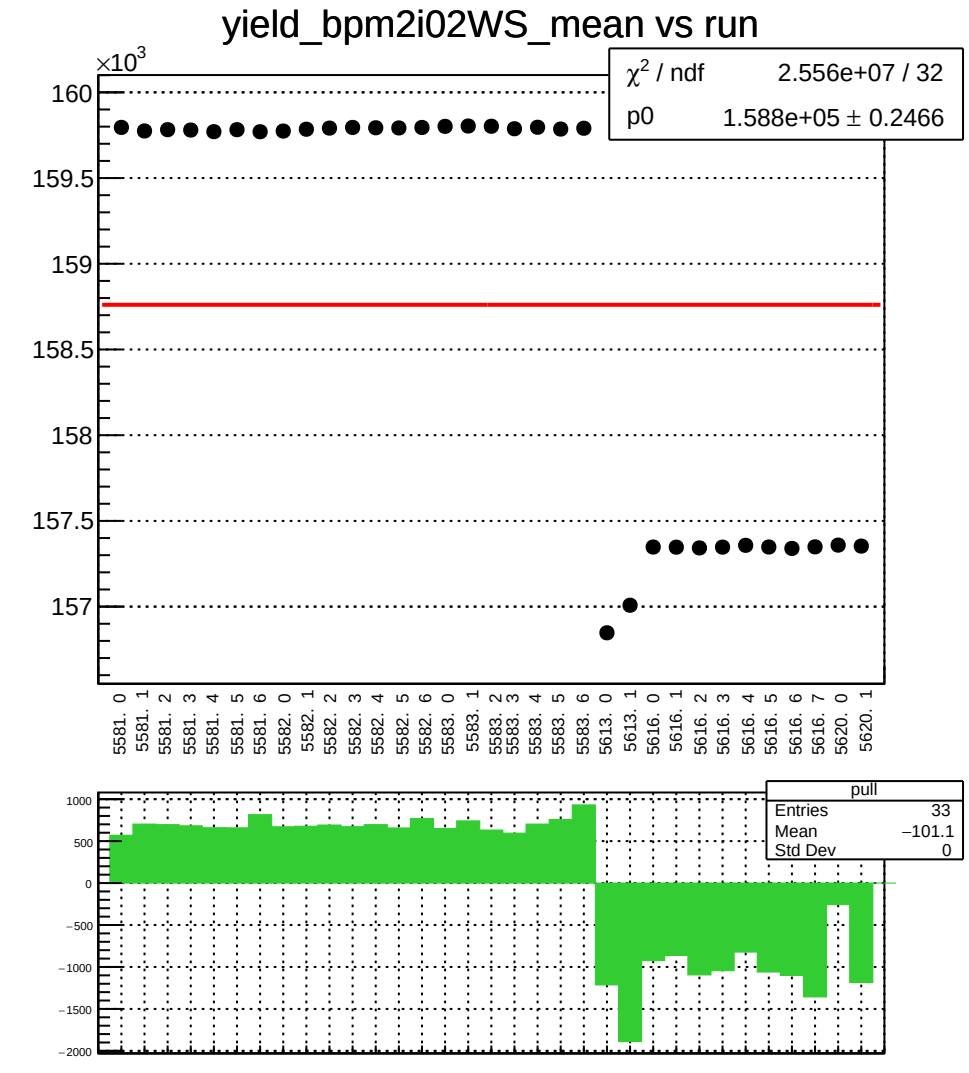

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 5.861e+06 / 32
p0 1.487e+05 ± 0.3107
150
149.5
149
148.5
148
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean –8.496
Std Dev 0
600
400
200
0
–200
–400
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

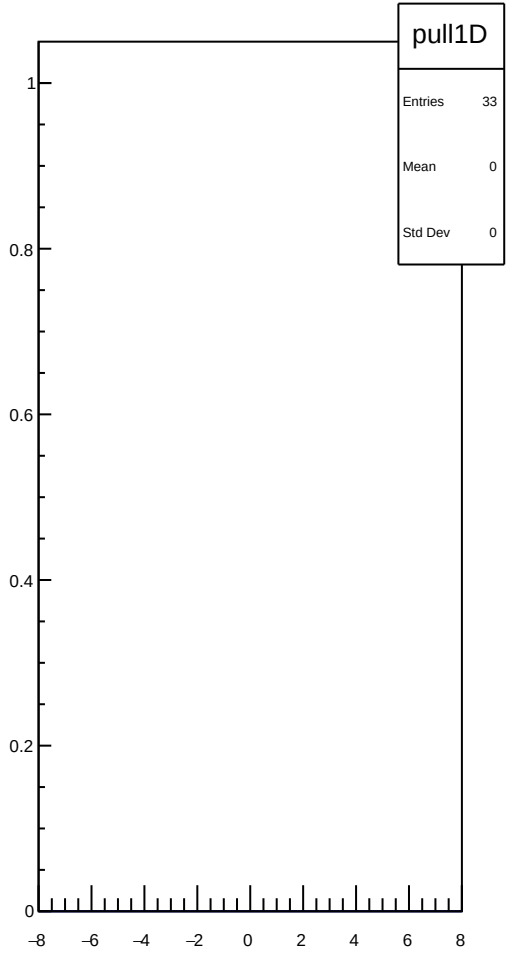

yield_bpm1i06WS_rms vs run
χ² / ndf 8.735e+04 / 32
p0 165.1 ± 0.2197
500
450
400
350
300
250
200
150
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

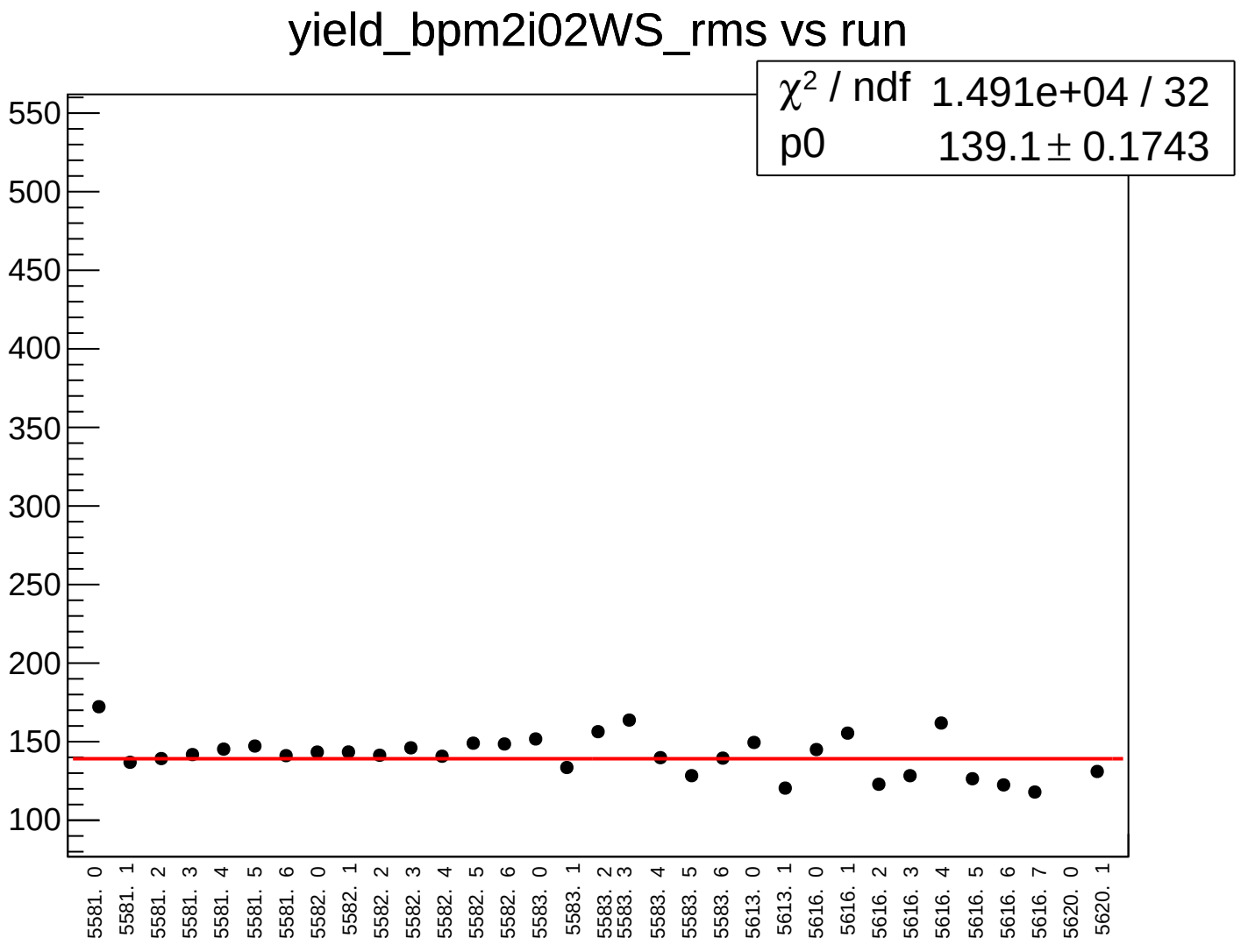

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 9.464e+04 / 32
p0 1.512e+05 ± 0.2346
151.3
151.25
151.2
151.15
151.1
151.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −66.17
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

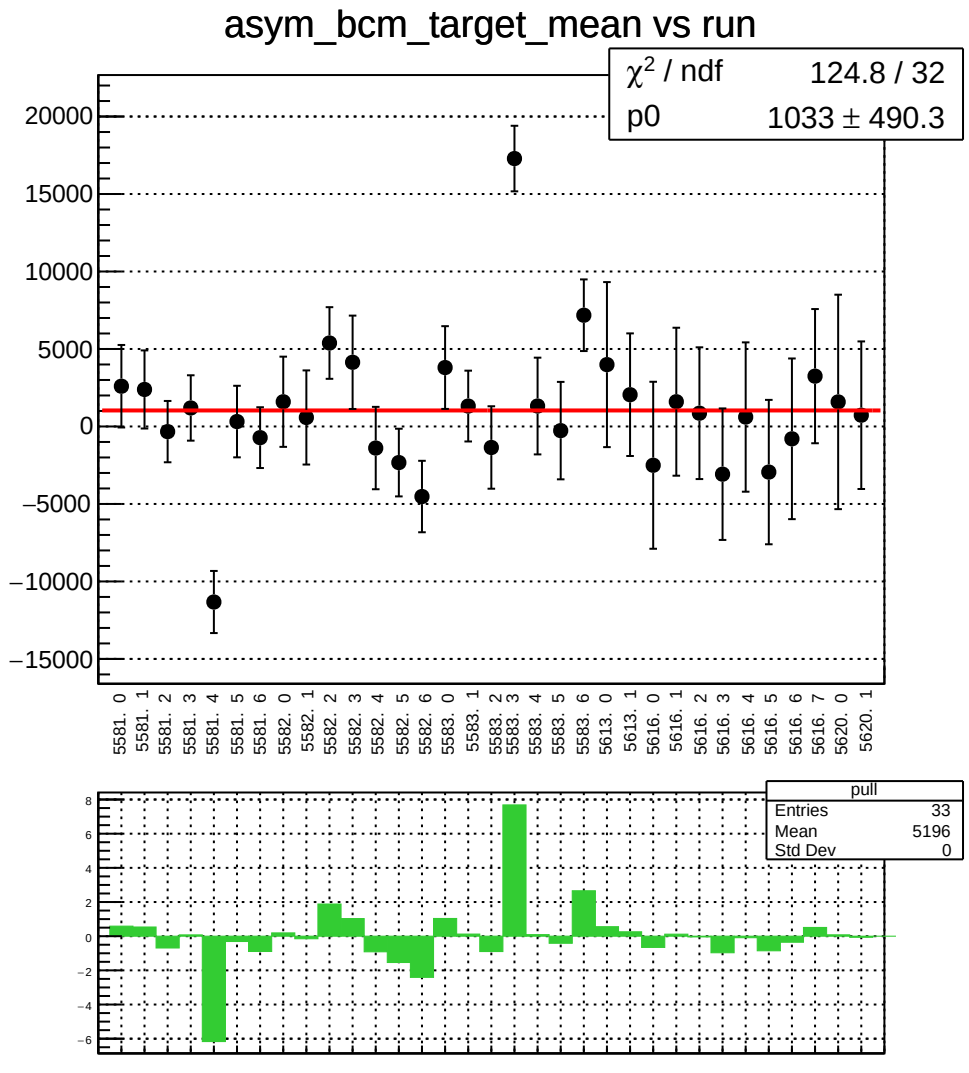

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

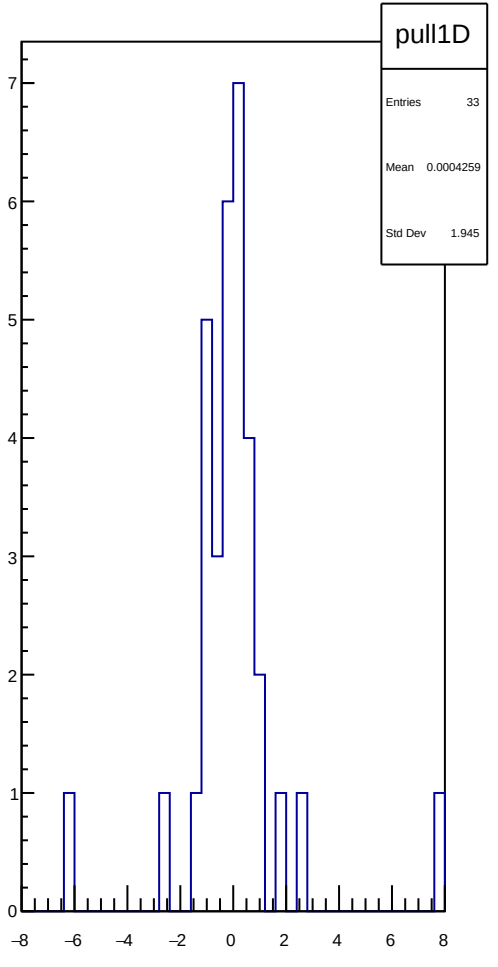

yield_bpm2i01WS_rms vs run
χ² / ndf 1.435e+04 / 32
p0 132.5 ± 0.1659
500
450
400
350
300
250
200
150
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

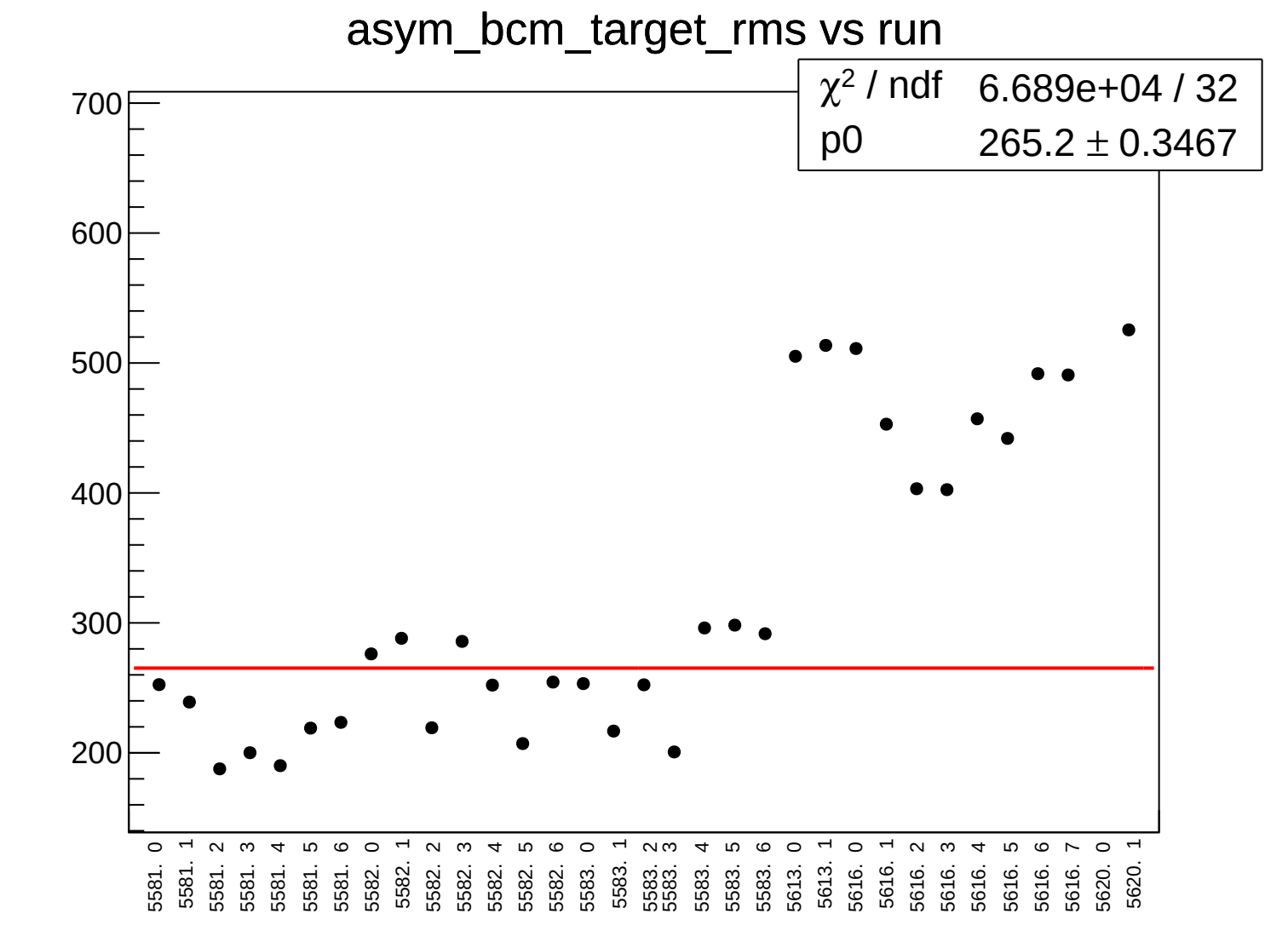

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.556e+07 / 32
p0 1.588e+05 ± 0.2466
160
159.5
159
158.5
158
157.5
157
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −101.1
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

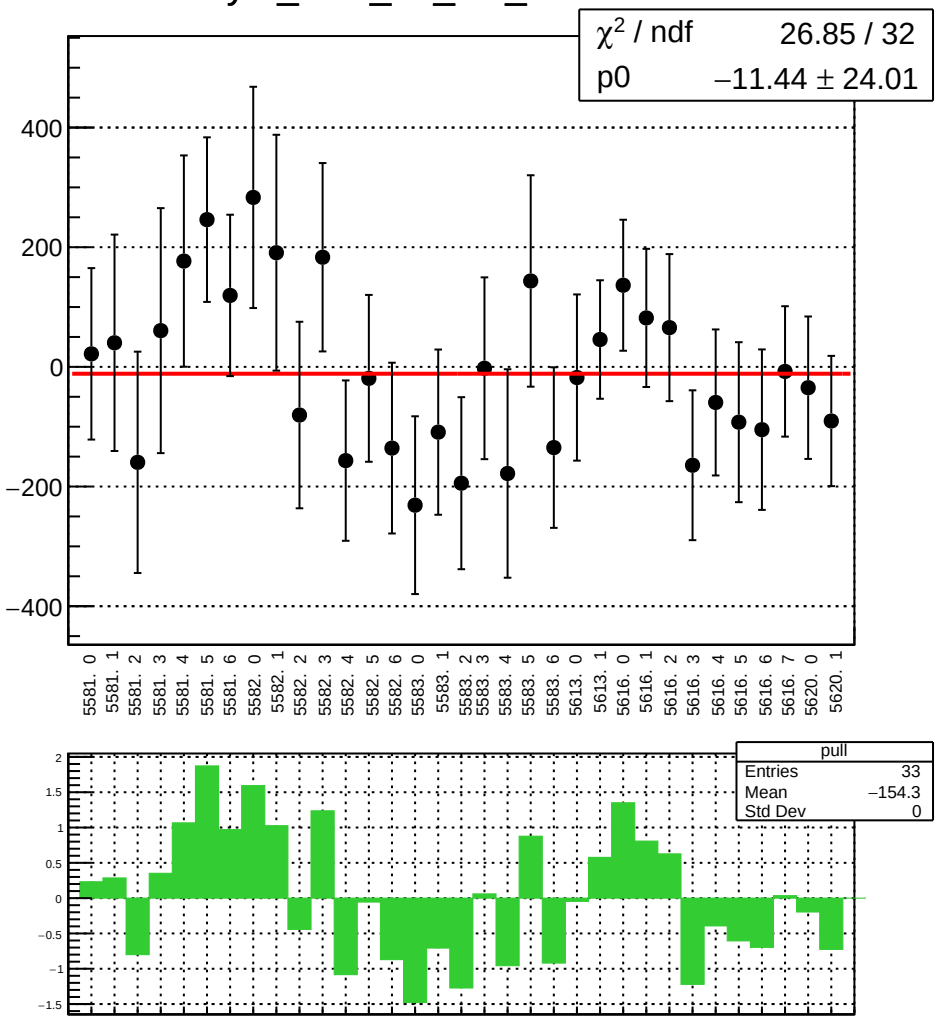

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

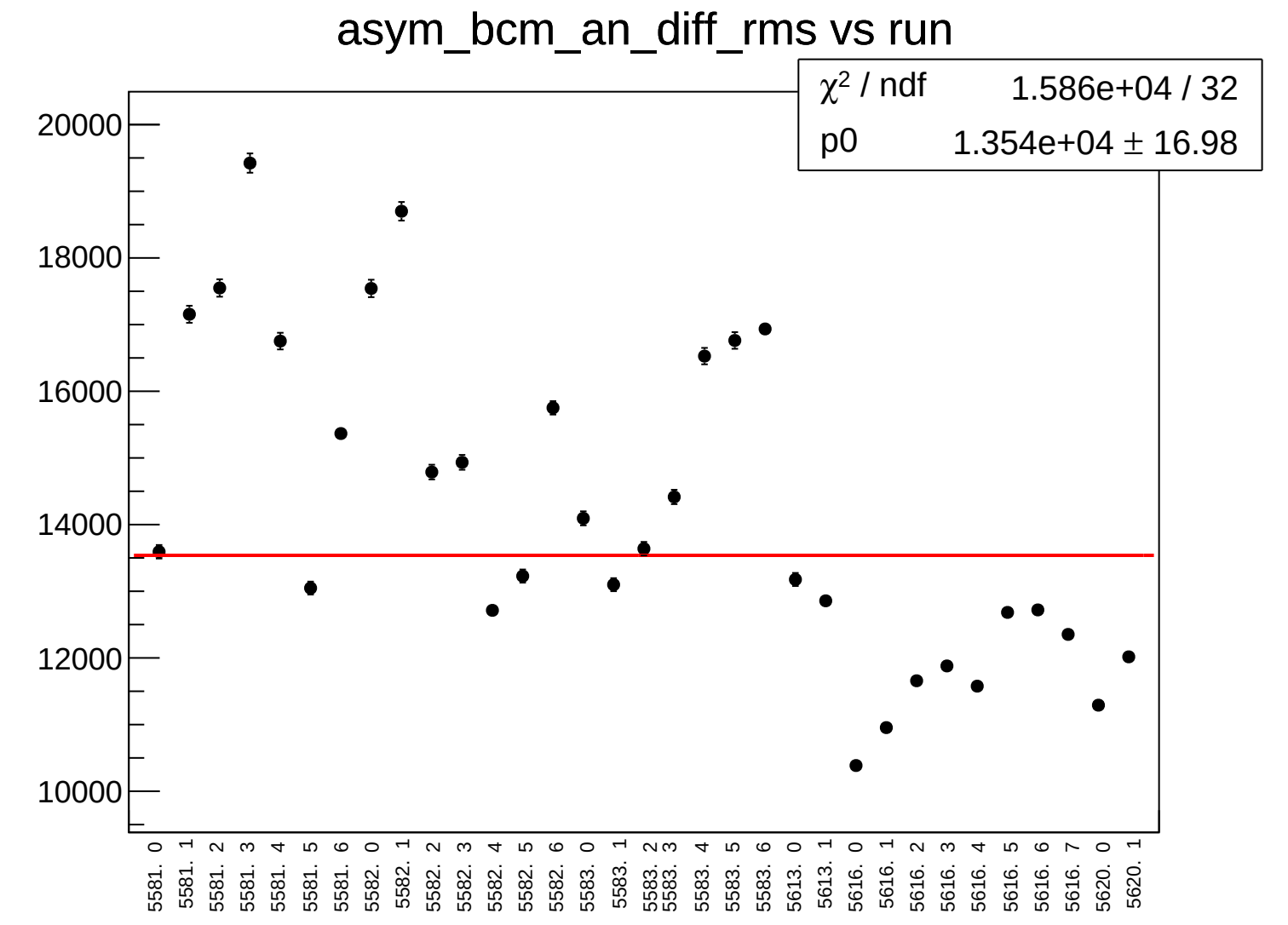

yield_bpm2i02WS_rms vs run
χ² / ndf 1.491e+04 / 32
p0 139.1 ± 0.1743
550
500
450
400
350
300
250
200
150
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

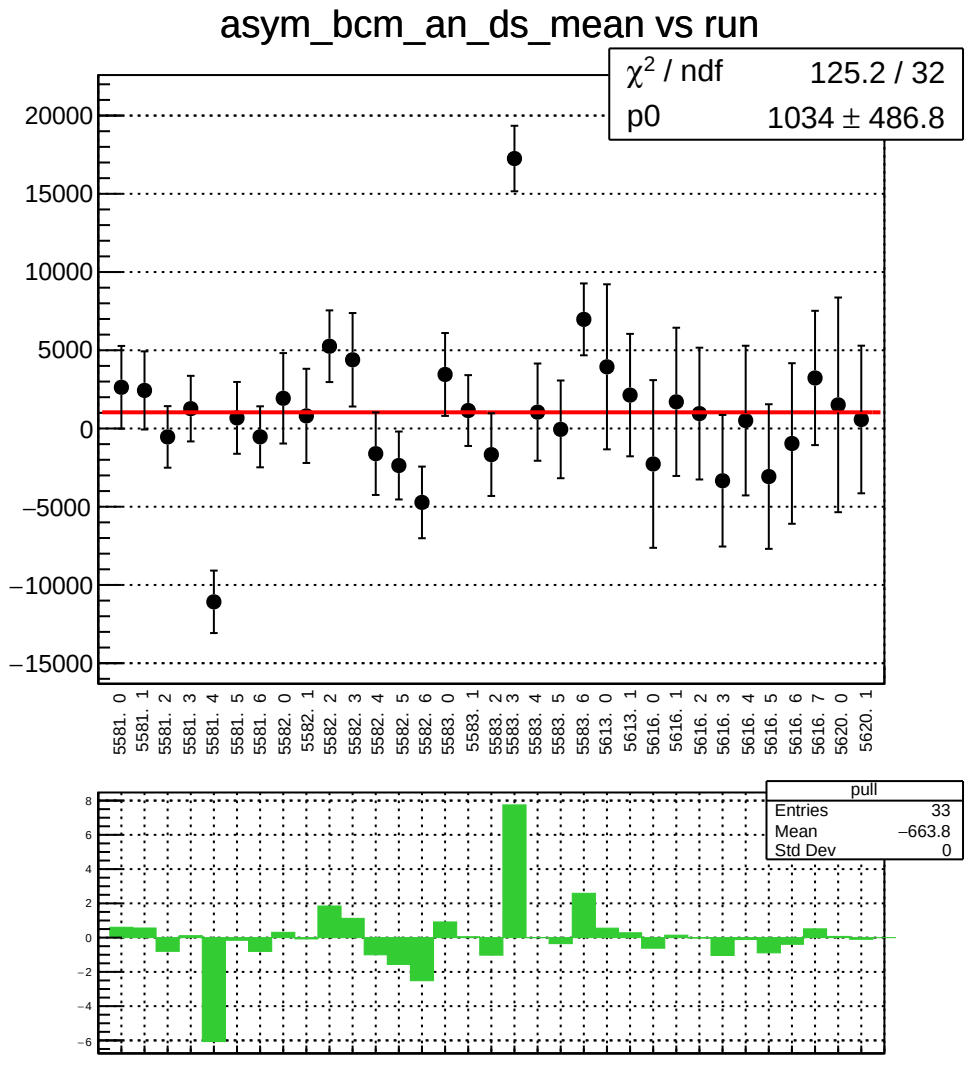

asym_bcm_target_mean vs run
χ² / ndf 124.8 / 32
p0 1033 ± 490.3
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5196
Std Dev 0
8
6
4
2
0
−2
−4
−6

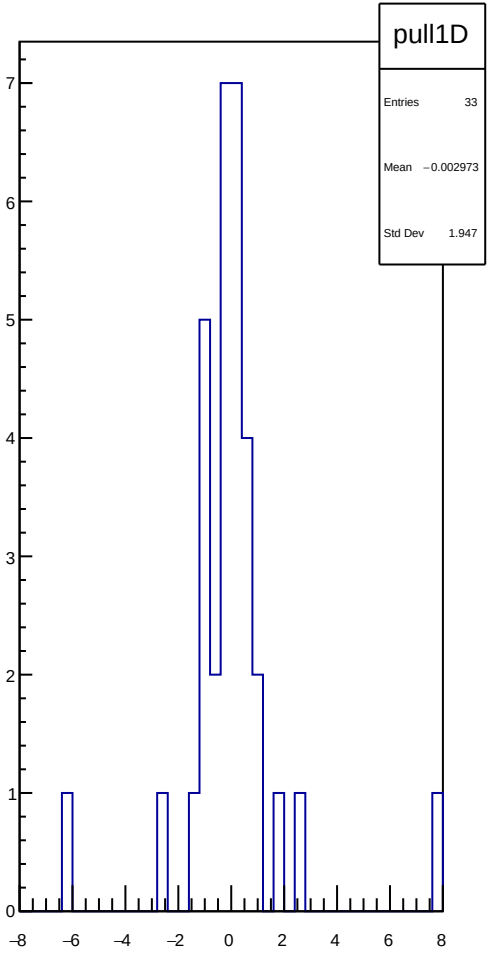

pull1D
Entries 33
Mean 0.0004259
Std Dev 1.945
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

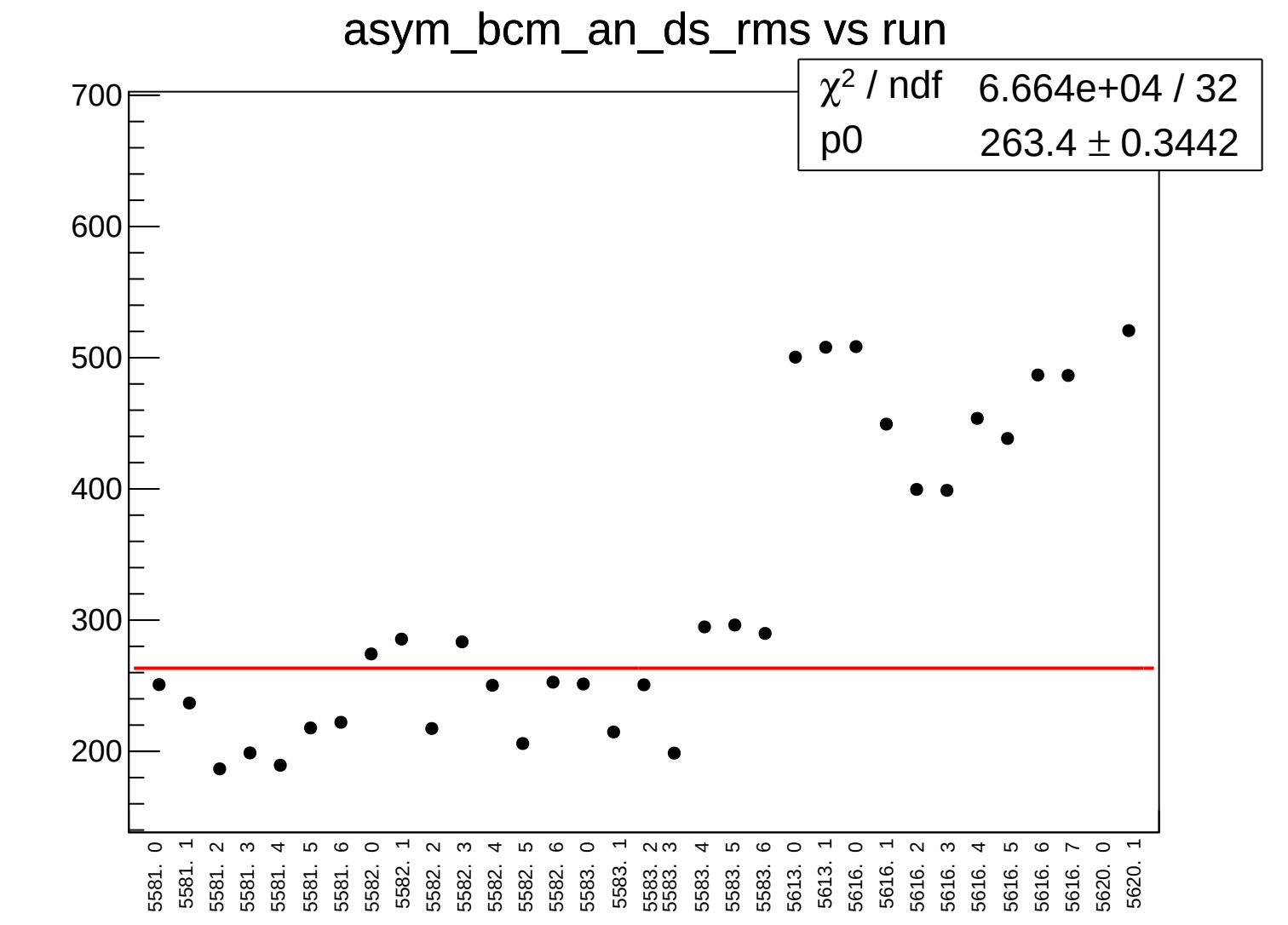

asym_bcm_target_rms vs run
χ² / ndf 6.689e+04 / 32
p0 265.2 ± 0.3467
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

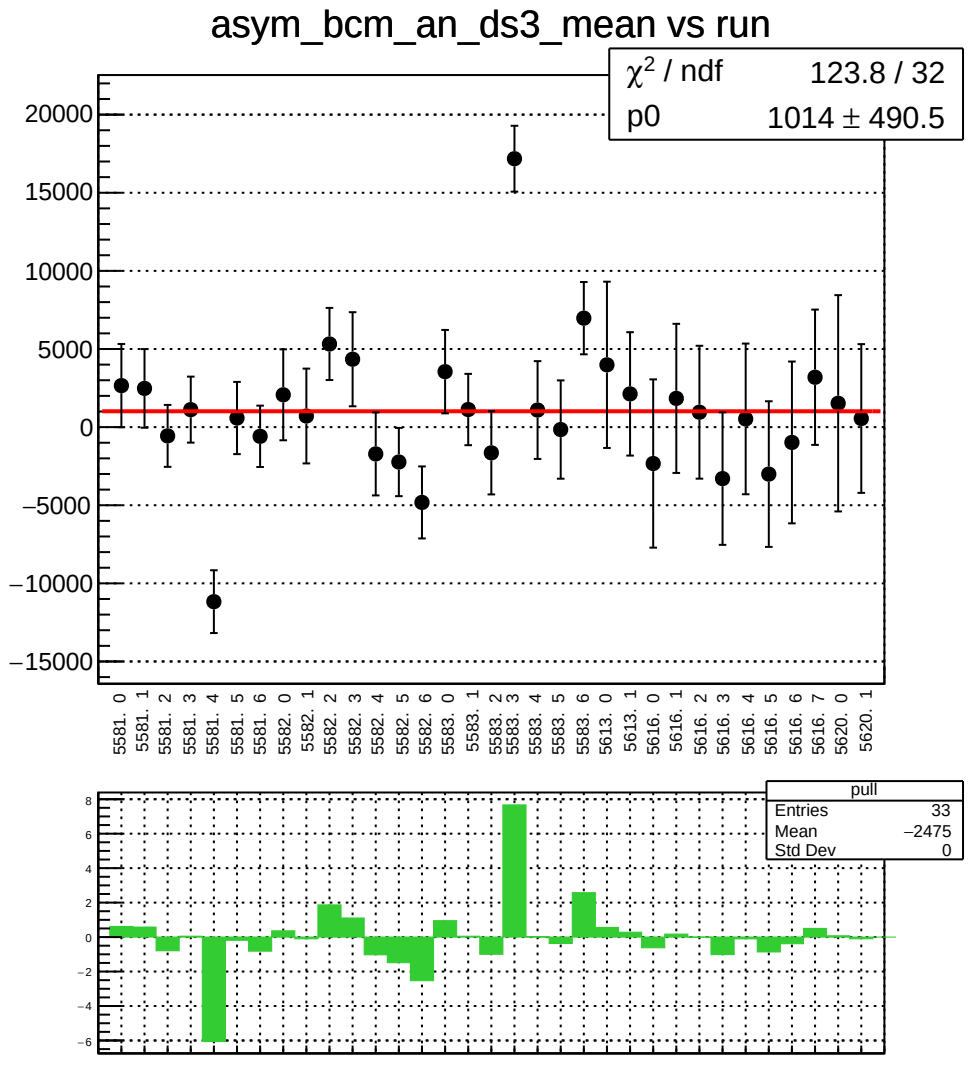

asym_bcm_an_diff_mean vs run
χ² / ndf 26.85 / 32
p0 −11.44 ± 24.01
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −154.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.01498
Std Dev 0.902
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

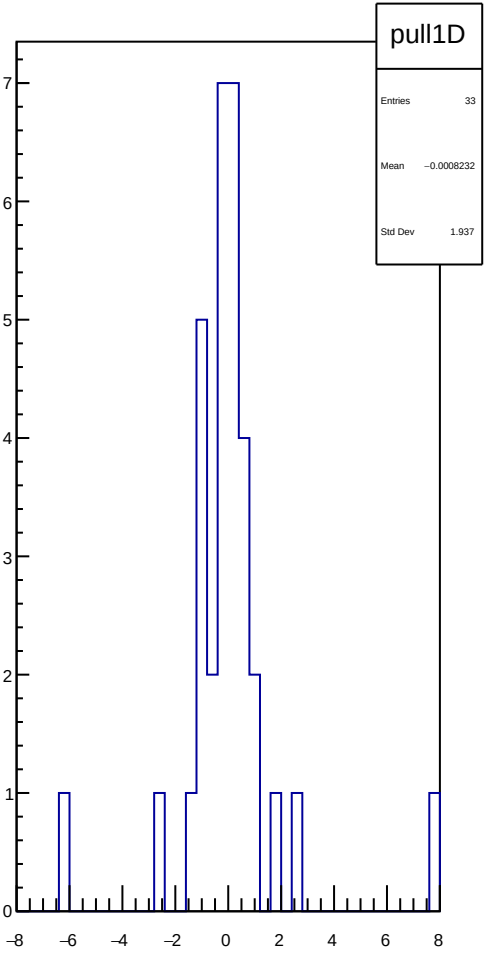

asym_bcm_an_diff_rms vs run
χ² / ndf 1.586e+04 / 32
p0 1.354e+04 ± 16.98
20000
18000
16000
14000
12000
10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

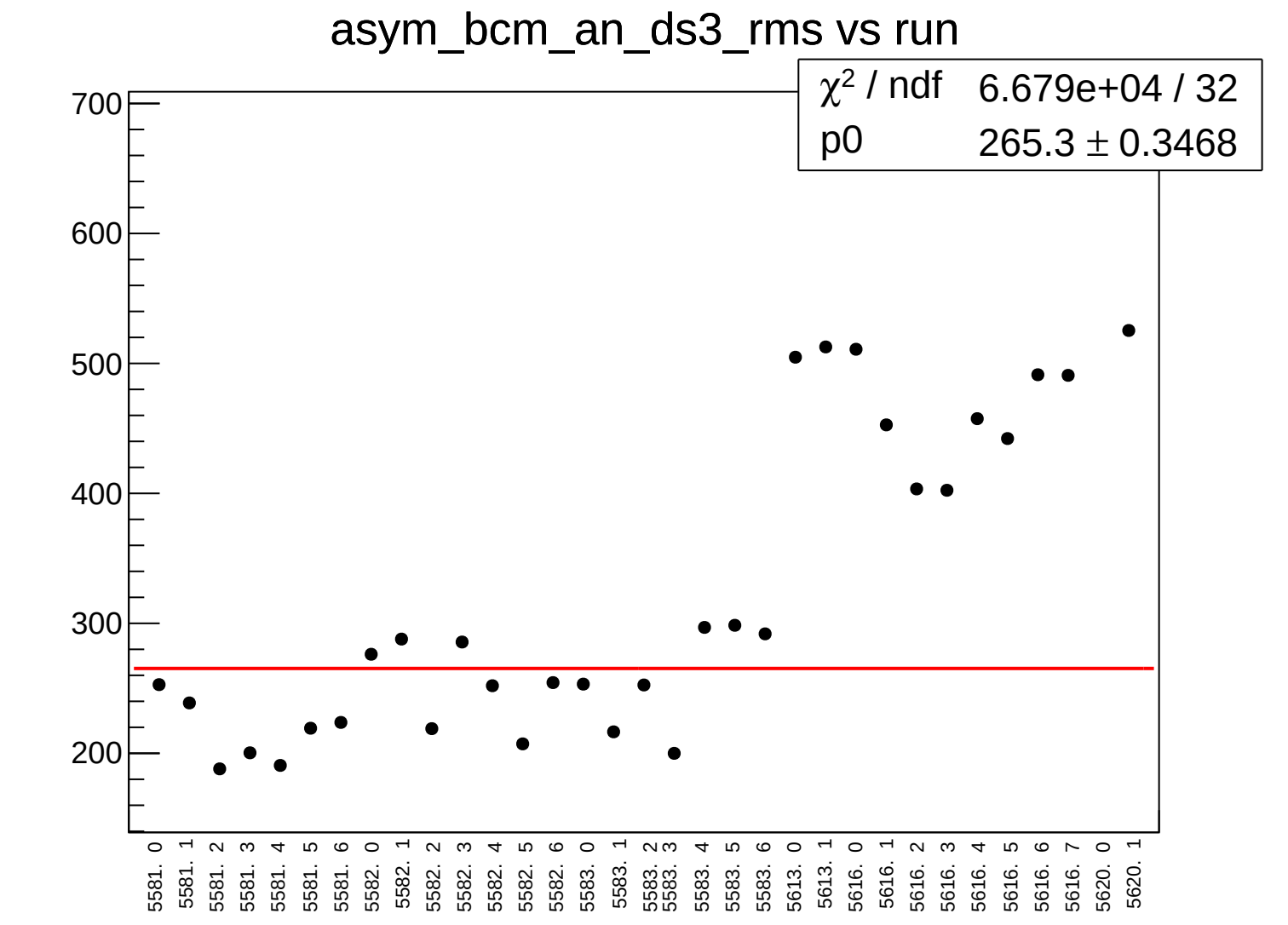

asym_bcm_an_ds_mean vs run
χ² / ndf 125.2 / 32
p0 1034 ± 486.8
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −663.8
Std Dev 0
8
6
4
2
0
−2
−4
−6

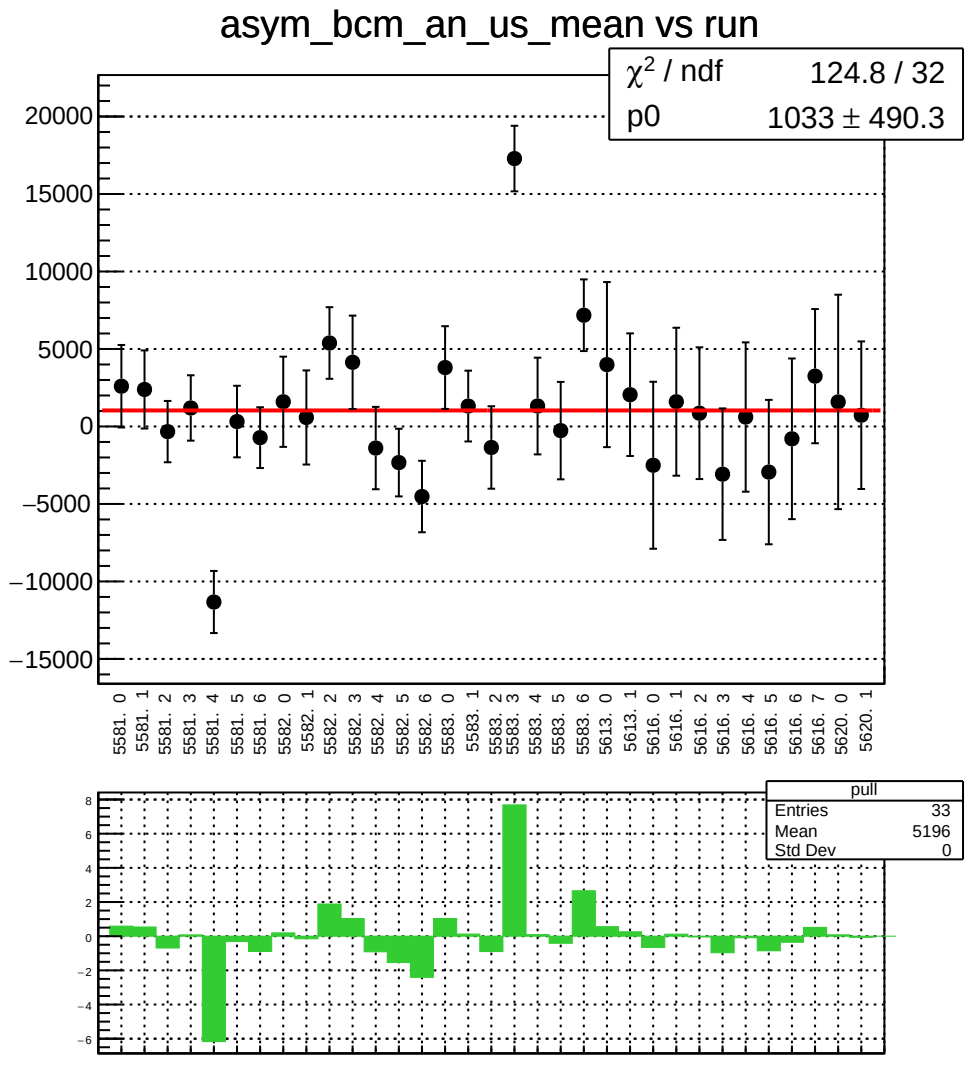

pull1D
Entries 33
Mean −0.002973
Std Dev 1.947
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

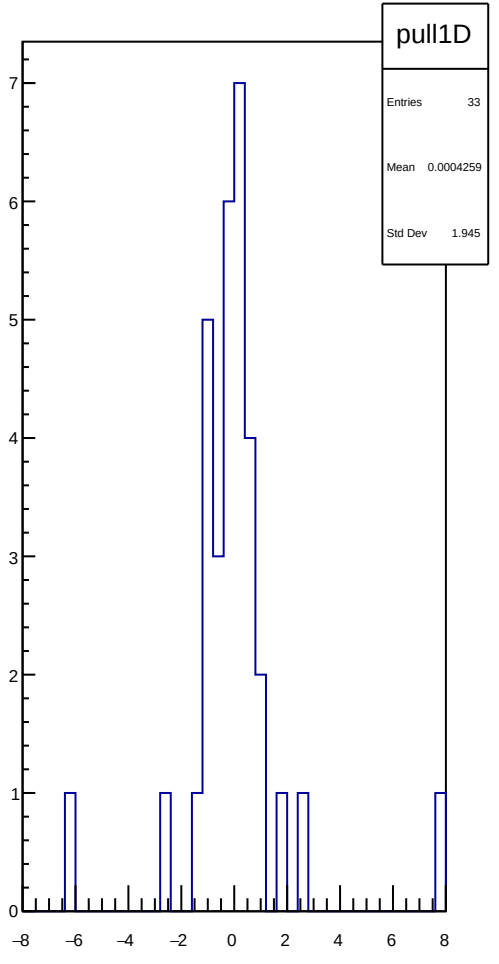

asym_bcm_an_ds_rms vs run
χ² / ndf 6.664e+04 / 32
p0 263.4 ± 0.3442
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

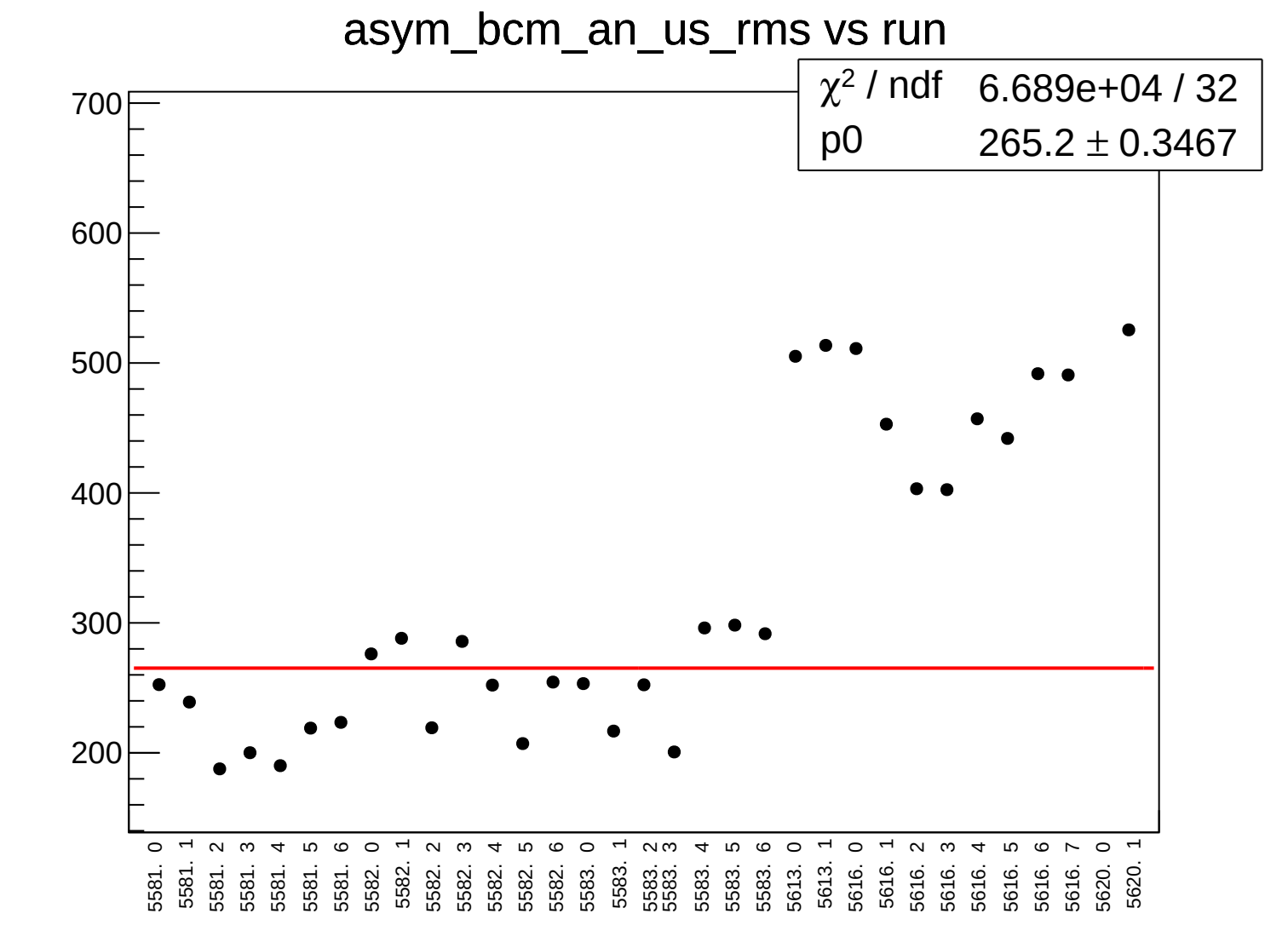

asym_bcm_an_ds3_mean vs run
χ² / ndf 123.8 / 32
p0 1014 ± 490.5
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2475
Std Dev 0
8
6
4
2
0
−2
−4
−6

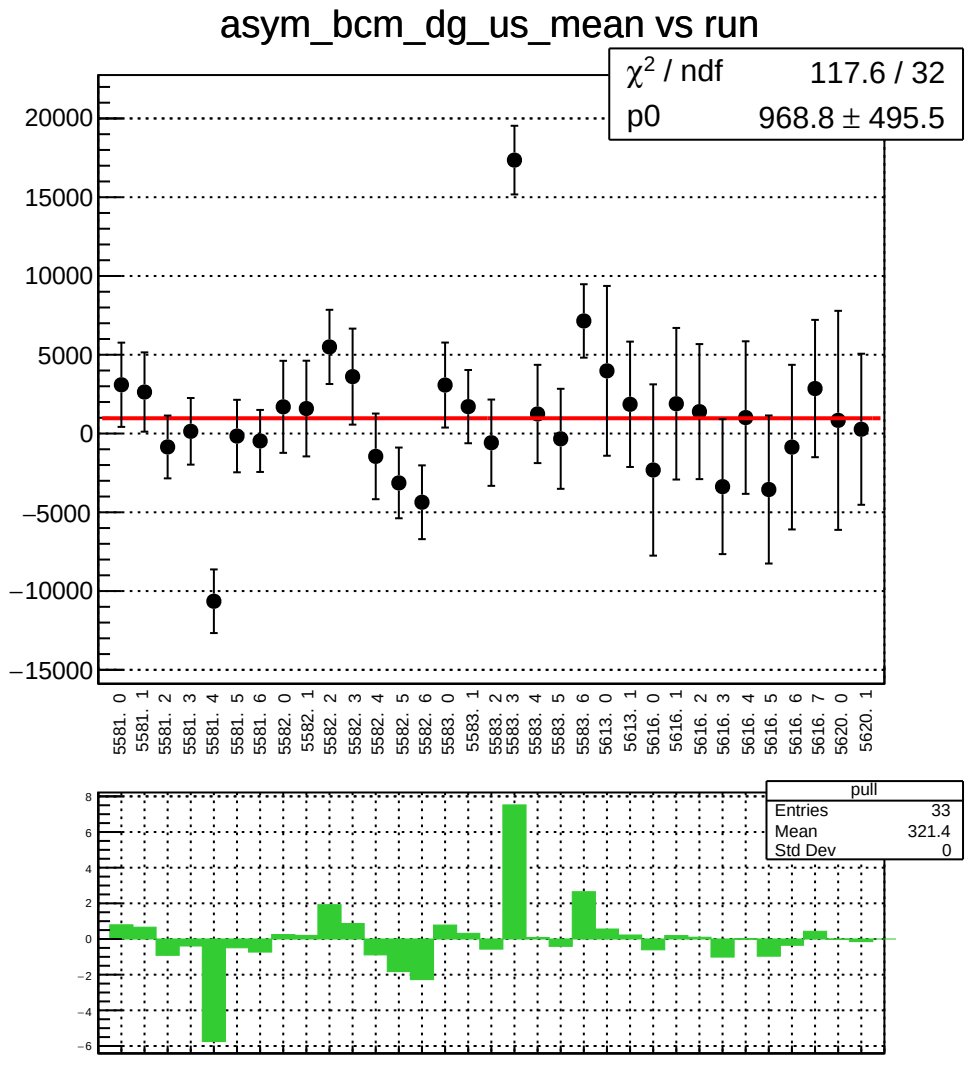

pull1D
Entries 33
Mean −0.0008232
Std Dev 1.937
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

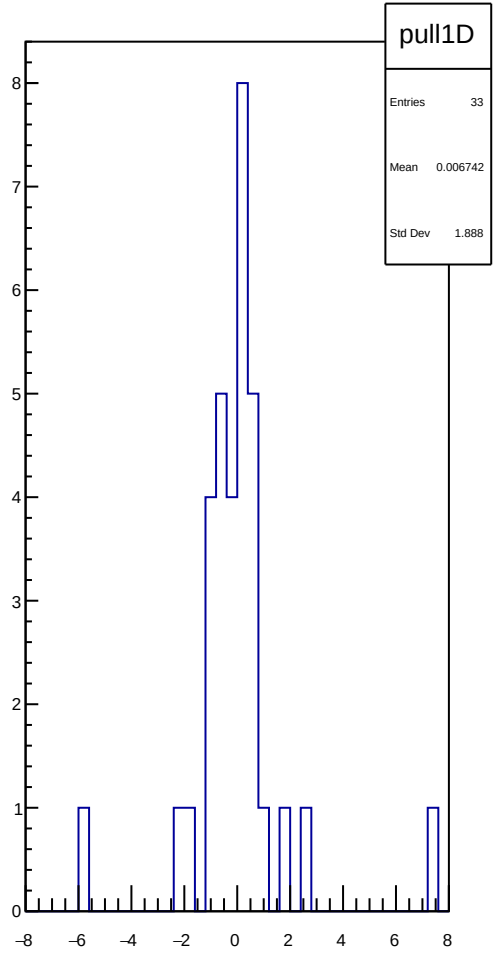

asym_bcm_an_ds3_rms vs run
χ² / ndf 6.679e+04 / 32
p0 265.3 ± 0.3468
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

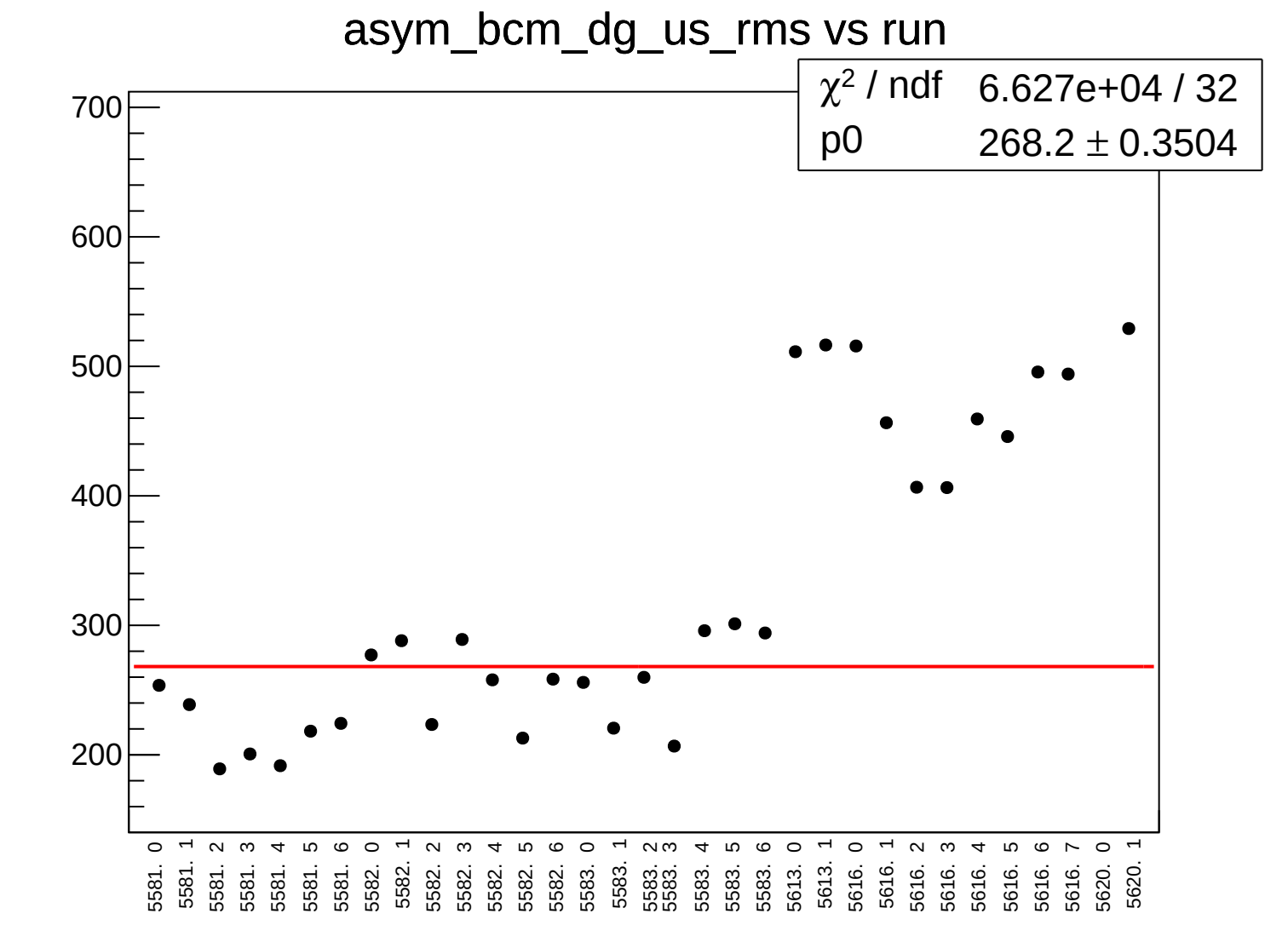

asym_bcm_an_us_mean vs run
χ² / ndf 124.8 / 32
p0 1033 ± 490.3
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5196
Std Dev 0
8
6
4
2
0
−2
−4
−6

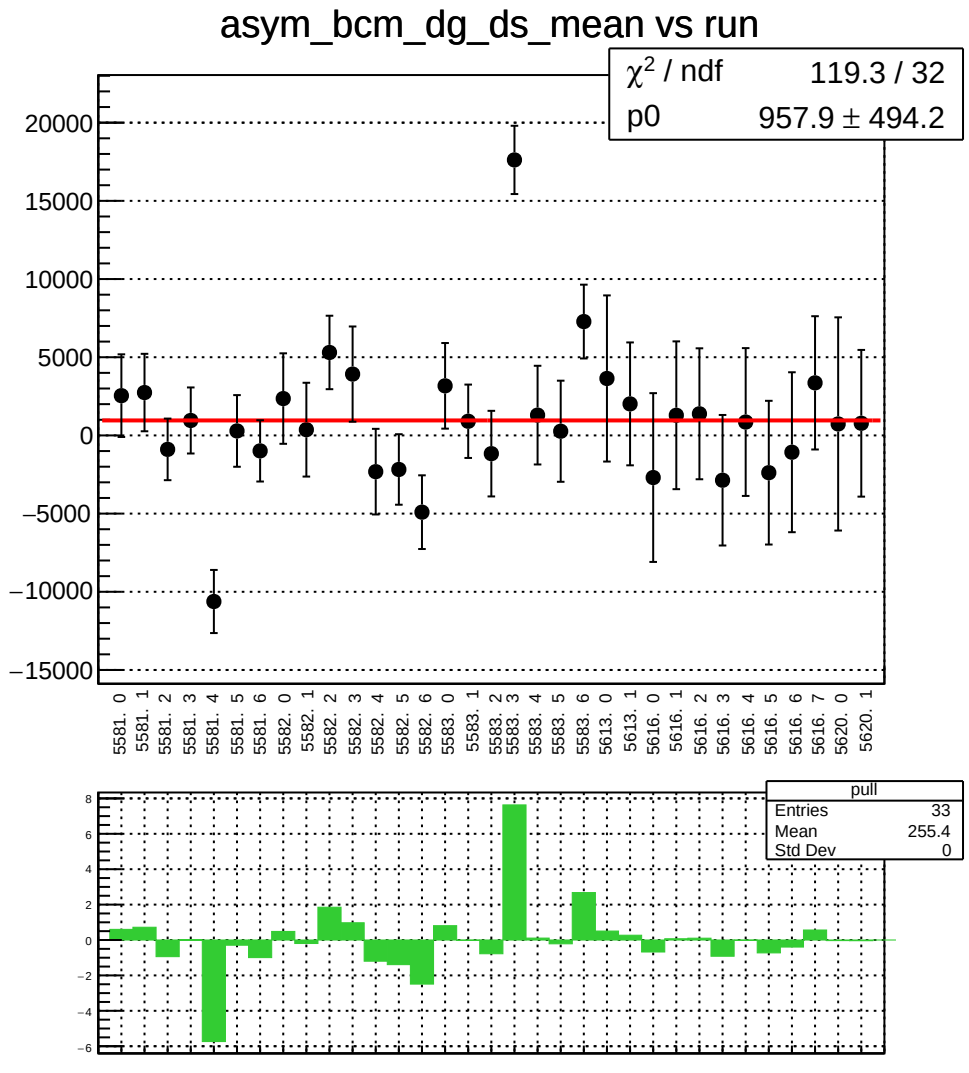

pull1D
Entries 33
Mean 0.0004259
Std Dev 1.945
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

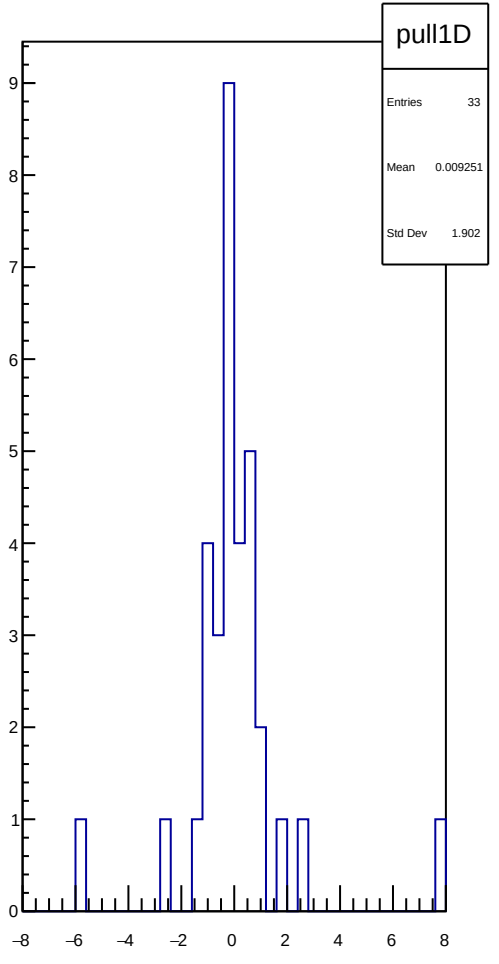

asym_bcm_an_us_rms vs run
χ² / ndf 6.689e+04 / 32
p0 265.2 ± 0.3467
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

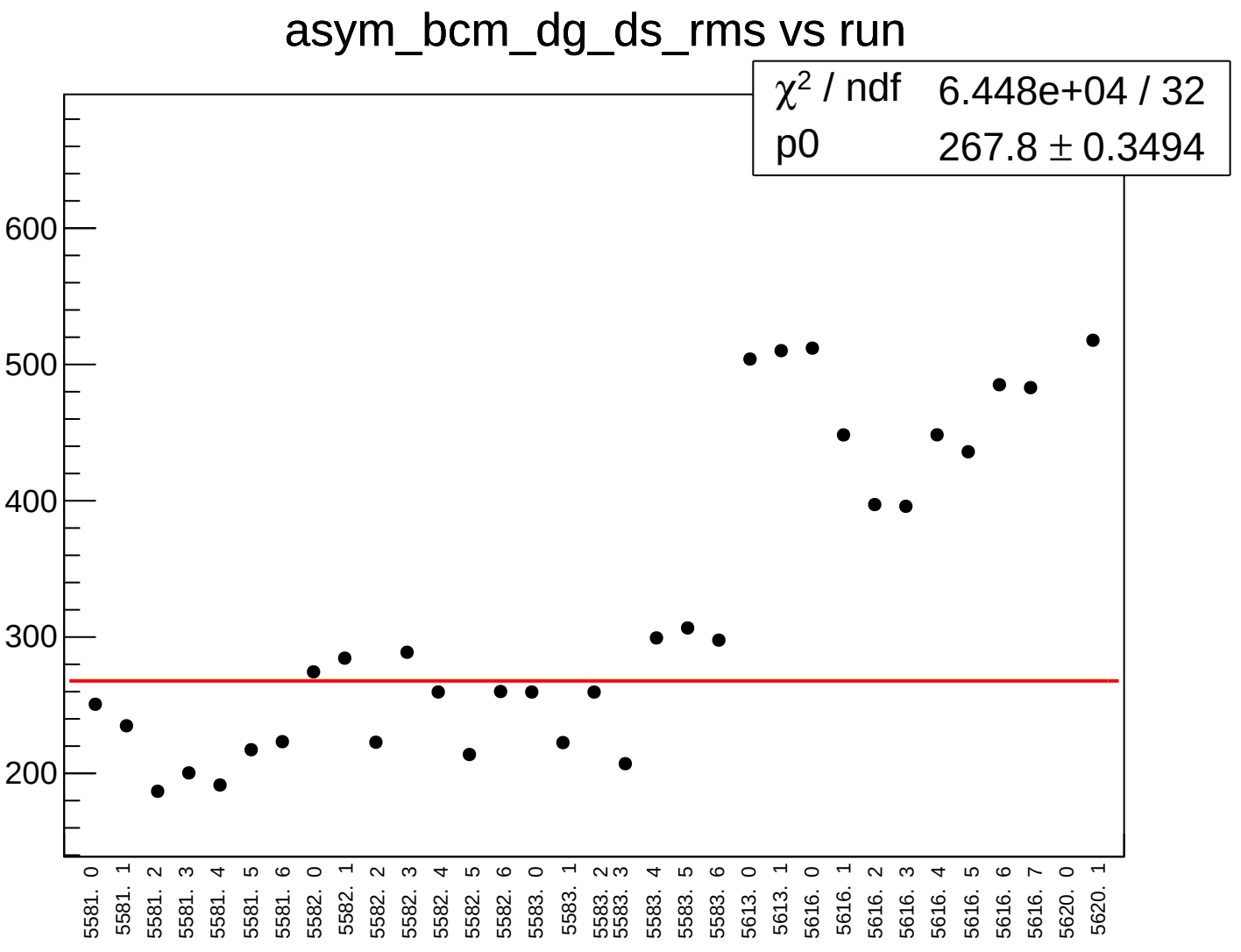

asym_bcm_dg_us_mean vs run
χ² / ndf 117.6 / 32
p0 968.8 ± 495.5
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 321.4
Std Dev 0
8
6
4
2
0
−2
−4
−6

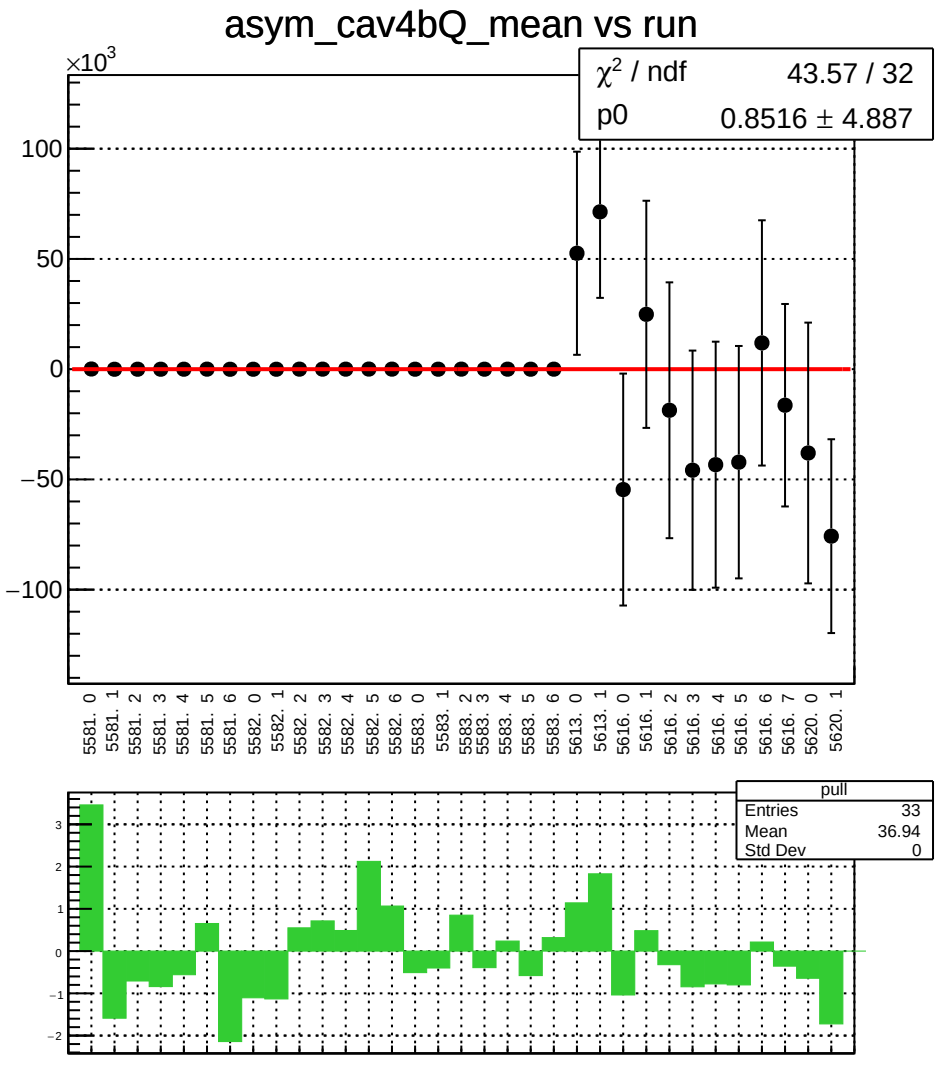

pull1D
Entries 33
Mean 0.006742
Std Dev 1.888
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

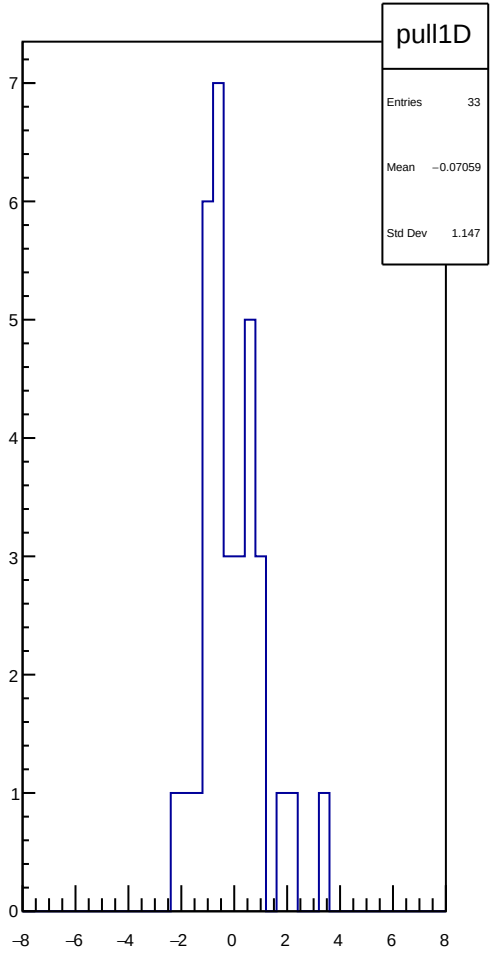

asym_bcm_dg_us_rms vs run
χ² / ndf 6.627e+04 / 32
p0 268.2 ± 0.3504
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

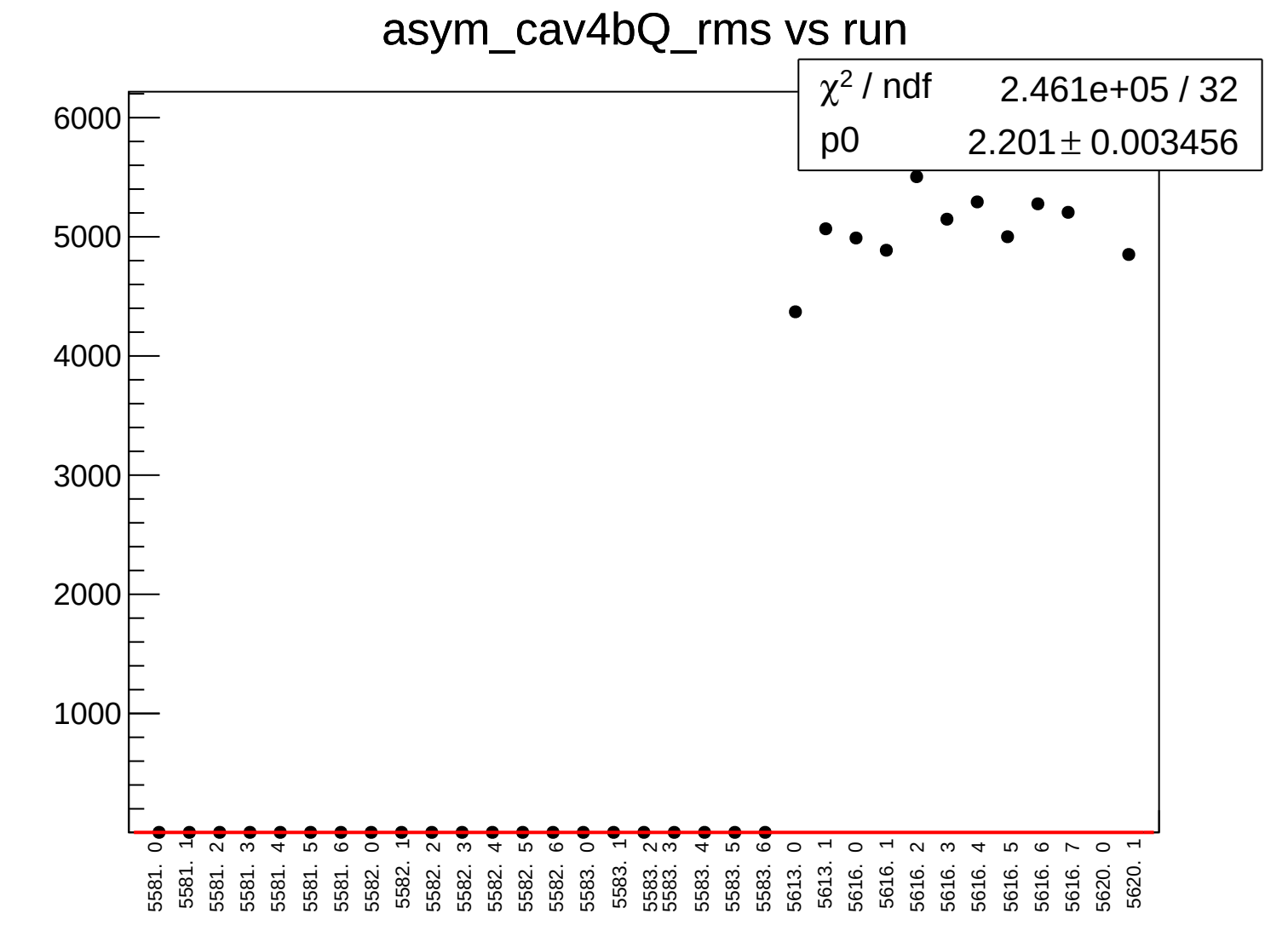

asym_bcm_dg_ds_mean vs run
χ² / ndf 119.3 / 32
p0 957.9 ± 494.2
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 255.4
Std Dev 0
8
6
4
2
0
−2
−4
−6

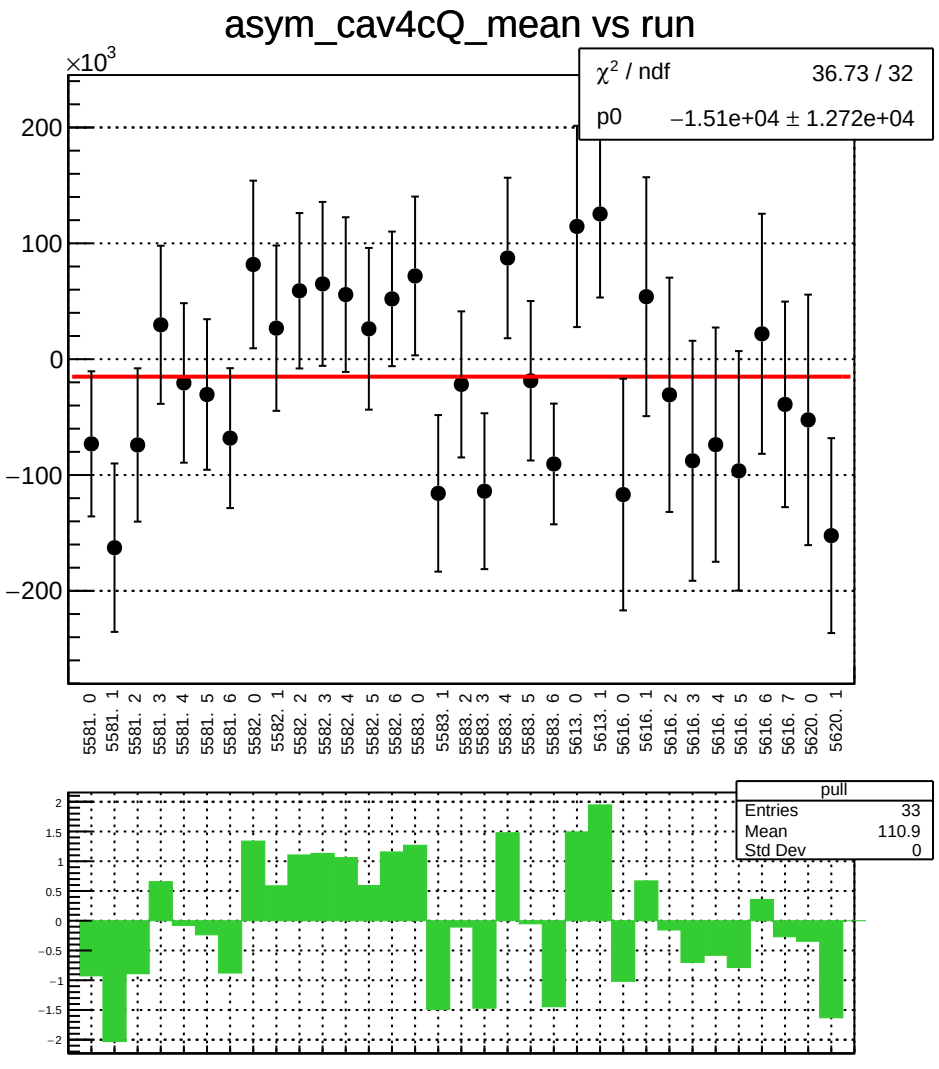

pull1D
Entries 33
Mean 0.009251
Std Dev 1.902
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

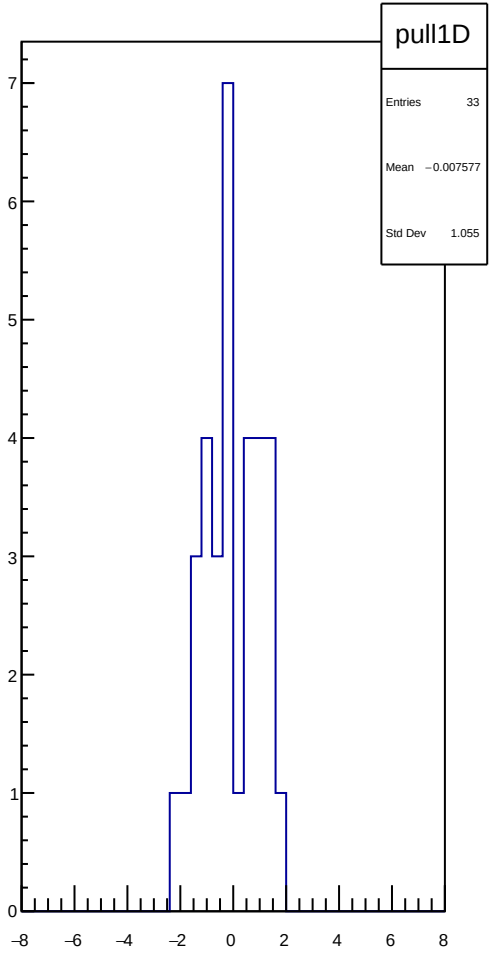

asym_bcm_dg_ds_rms vs run
χ² / ndf 6.448e+04 / 32
p0 267.8 ± 0.3494
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

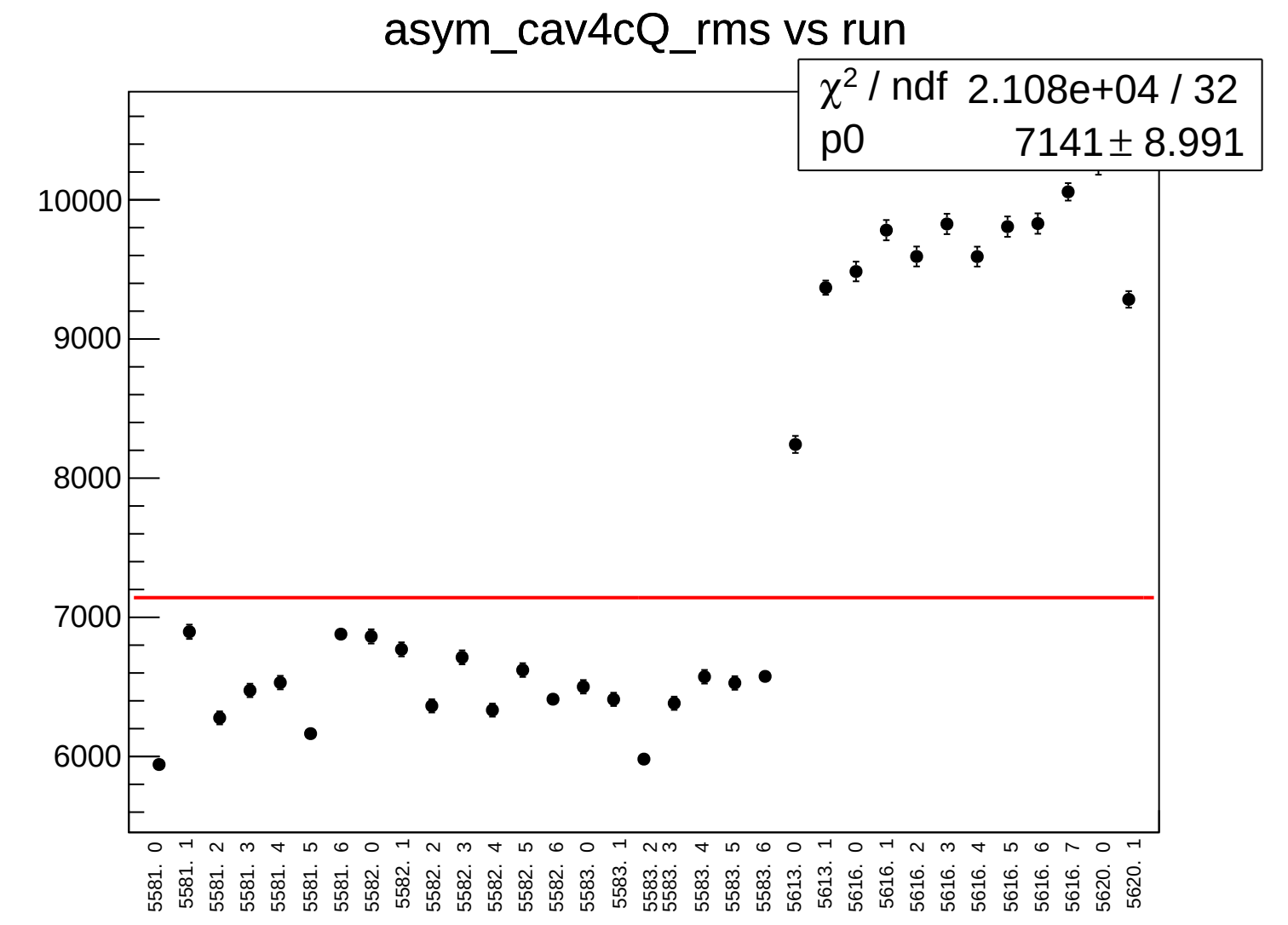

asym_cav4bQ_mean vs run
×10^3
χ² / ndf 43.57 / 32
p0 0.8516 ± 4.887
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.94
Std Dev 0
3
2
1
0
−1
−2

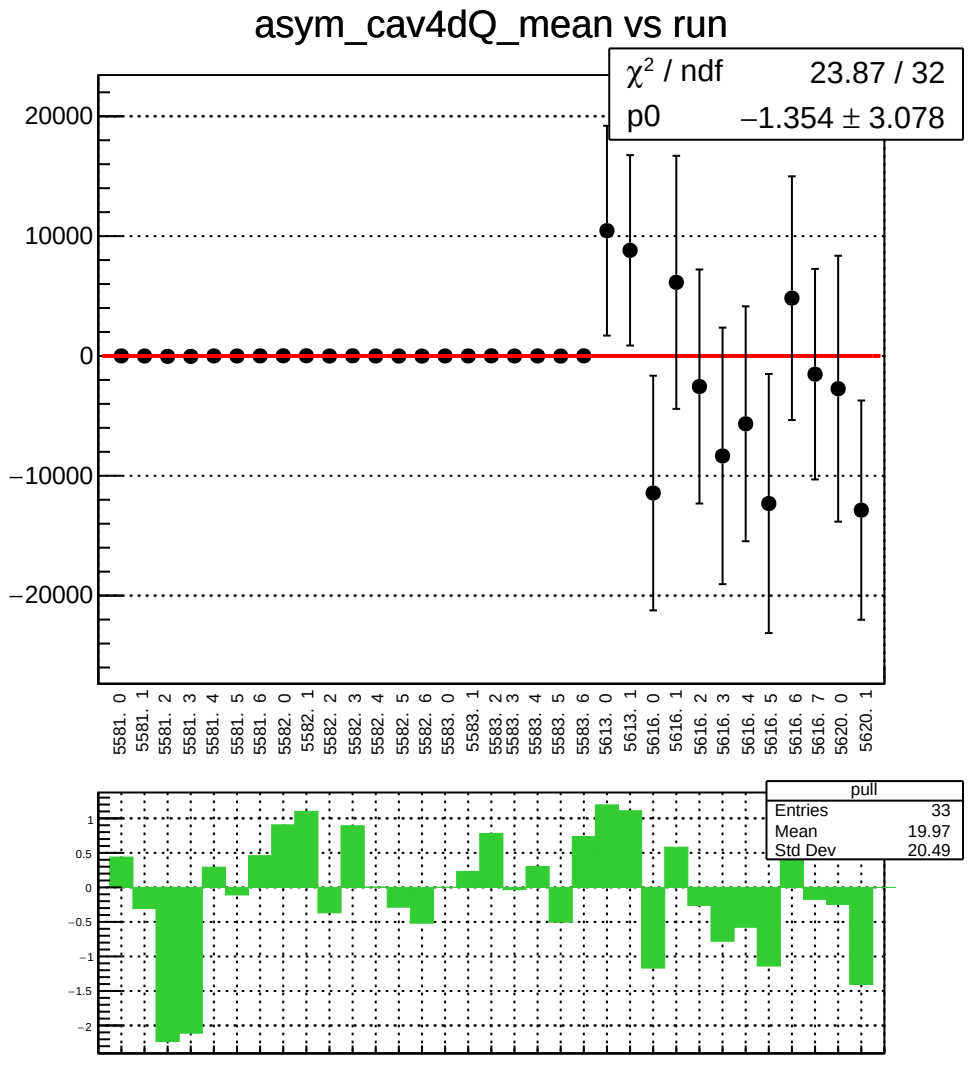

pull1D
Entries 33
Mean −0.07059
Std Dev 1.147
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

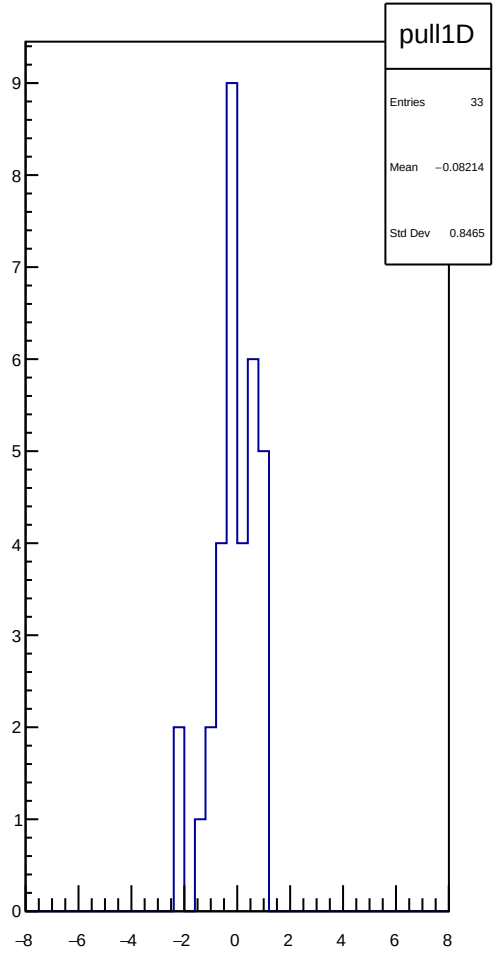

asym_cav4bQ_rms vs run
χ² / ndf 2.461e+05 / 32
p0 2.201 ± 0.003456
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

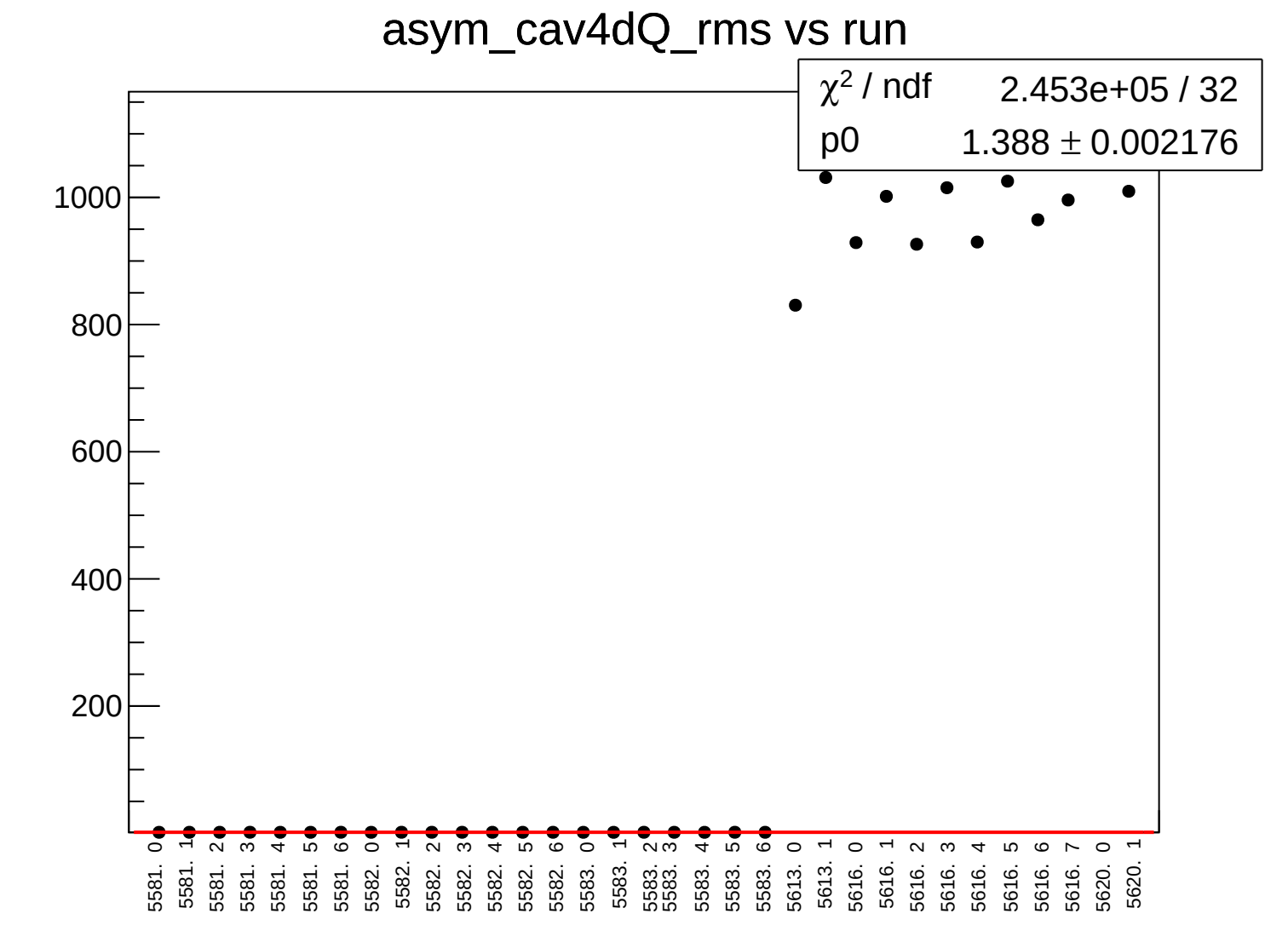

asym_cav4cQ_mean vs run
×10^3
χ² / ndf 36.73 / 32
p0 −1.51e+04 ± 1.272e+04
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 110.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

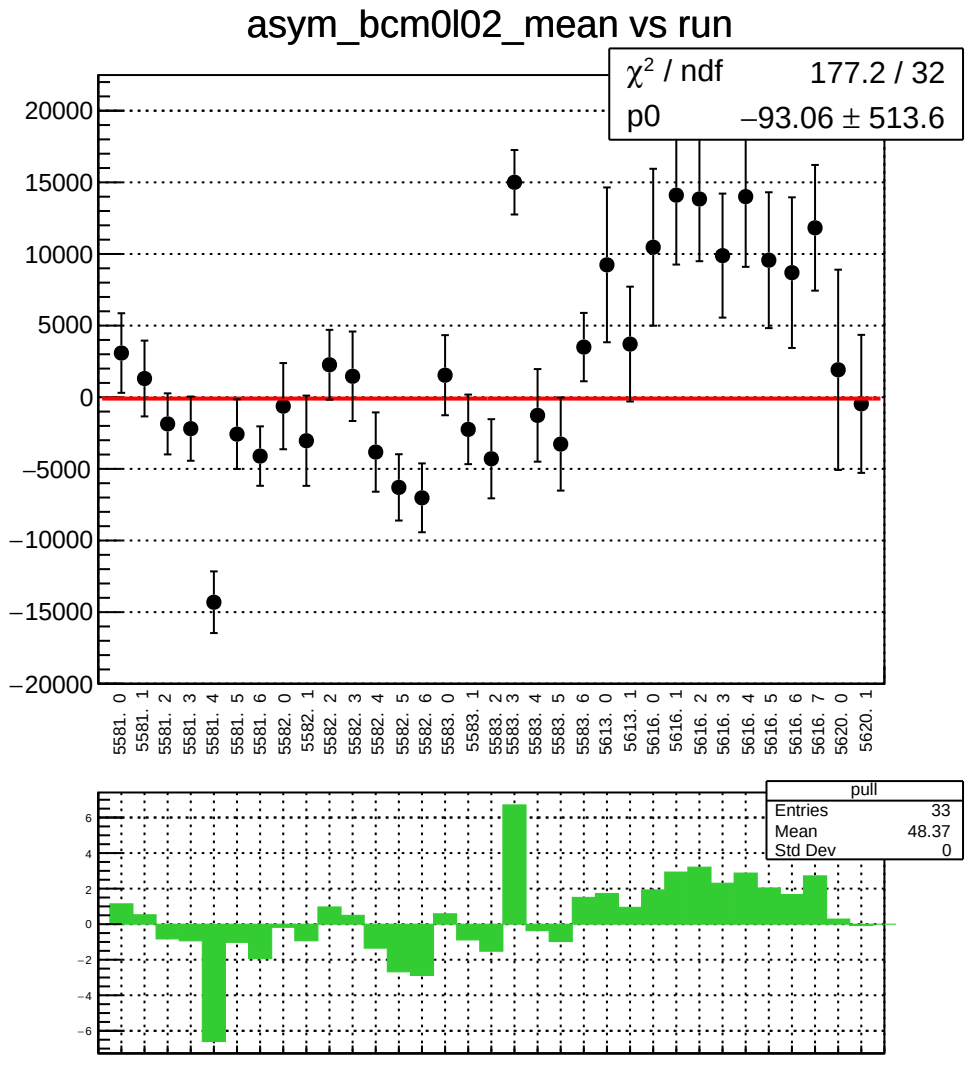

pull1D
Entries 33
Mean −0.007577
Std Dev 1.055
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

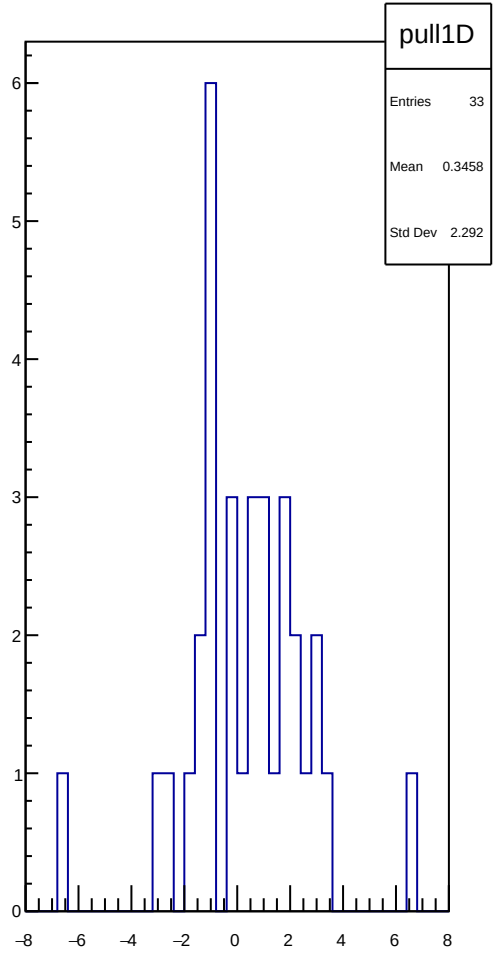

asym_cav4cQ_rms vs run
χ² / ndf 2.108e+04 / 32
p0 7141 ± 8.991
10000
9000
8000
7000
6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

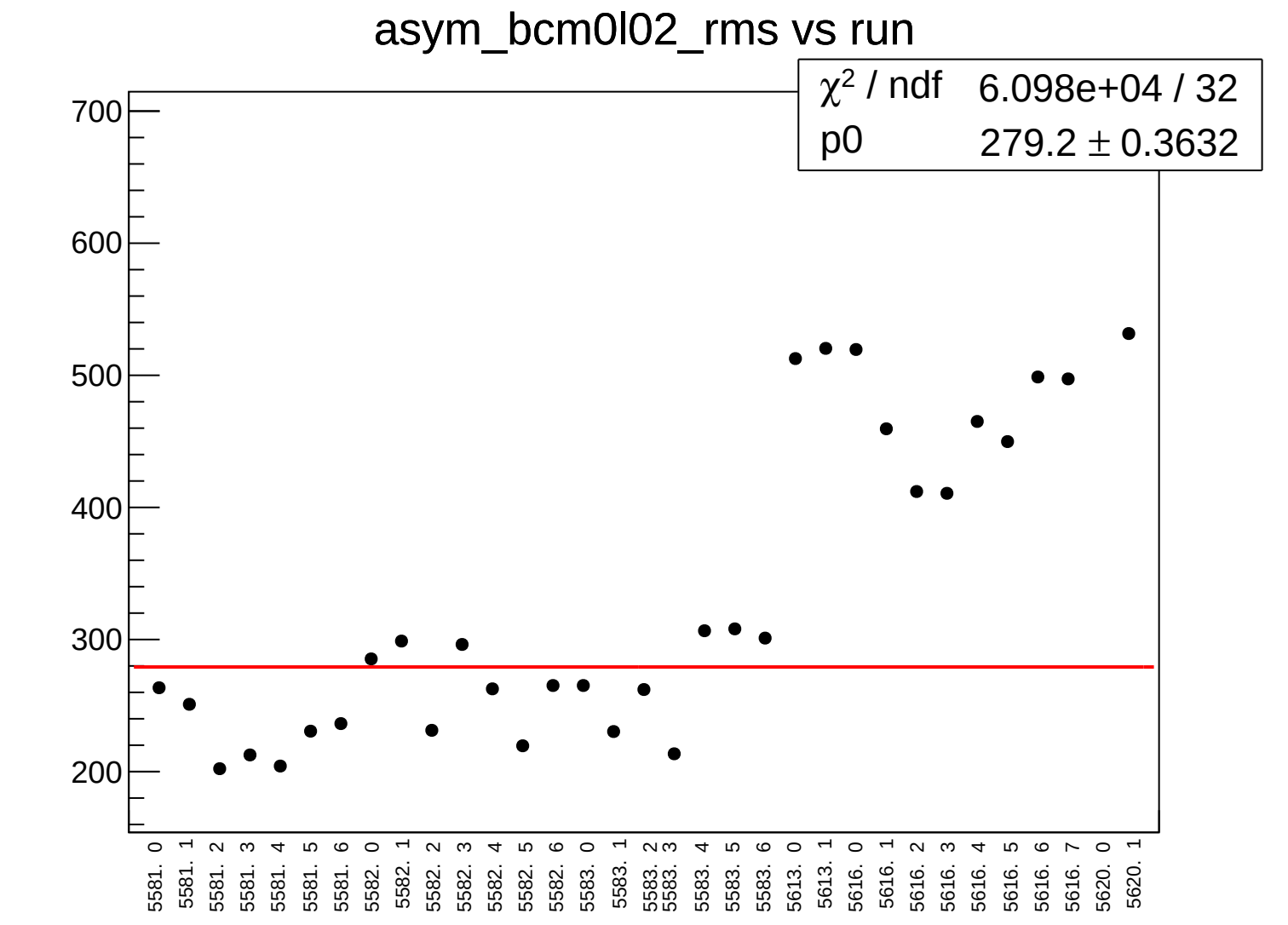

asym_cav4dQ_mean vs run
χ² / ndf 23.87 / 32
p0 −1.354 ± 3.078
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.97
Std Dev 20.49
1
0.5
0
−0.5
−1
−1.5
−2

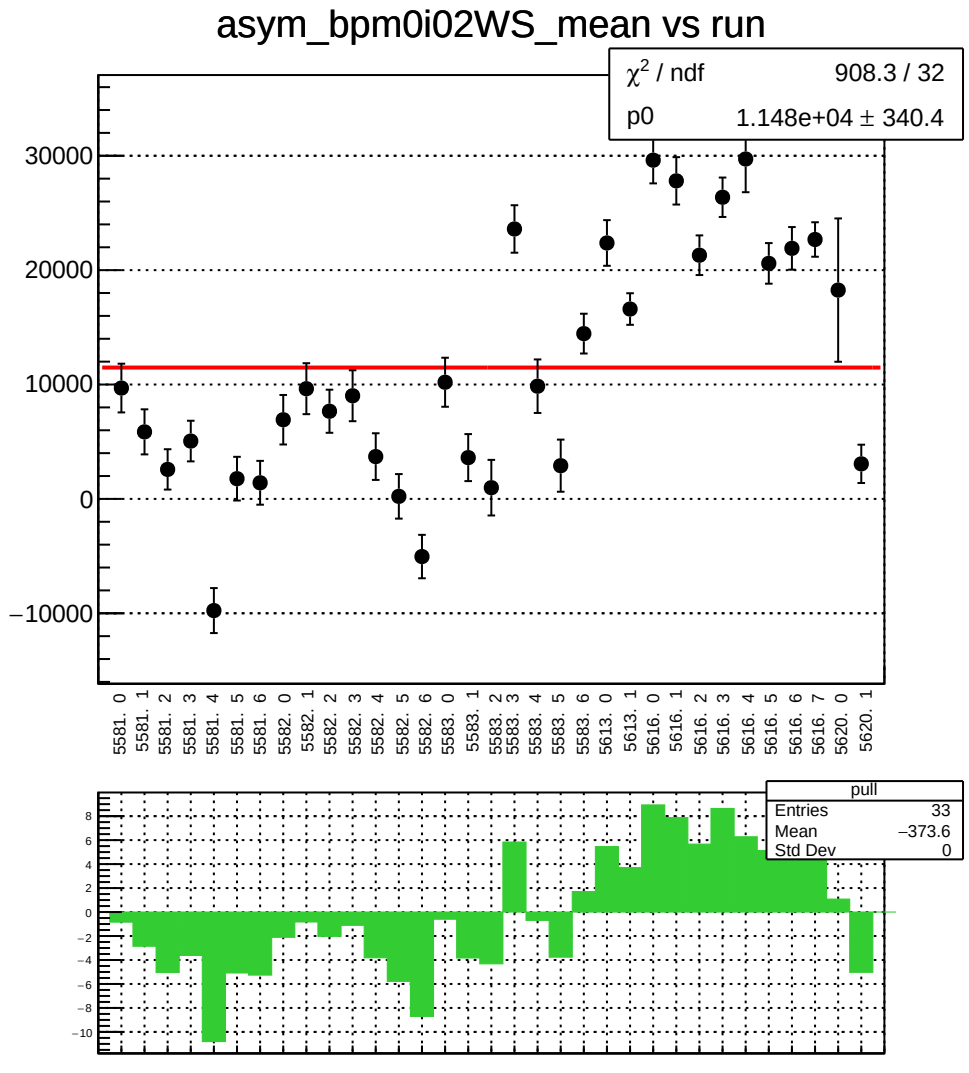

pull1D
Entries 33
Mean −0.08214
Std Dev 0.8465
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

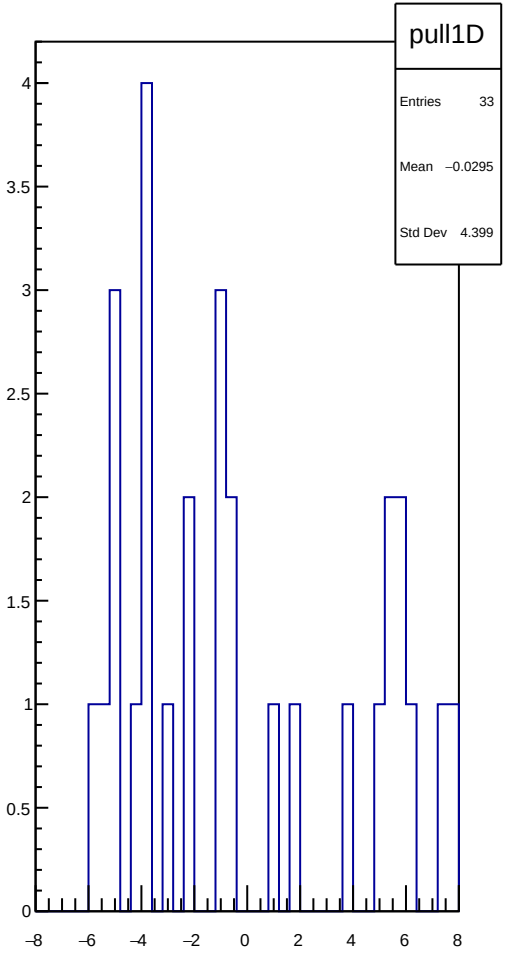

asym_cav4dQ_rms vs run
χ² / ndf 2.453e+05 / 32
p0 1.388 ± 0.002176
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

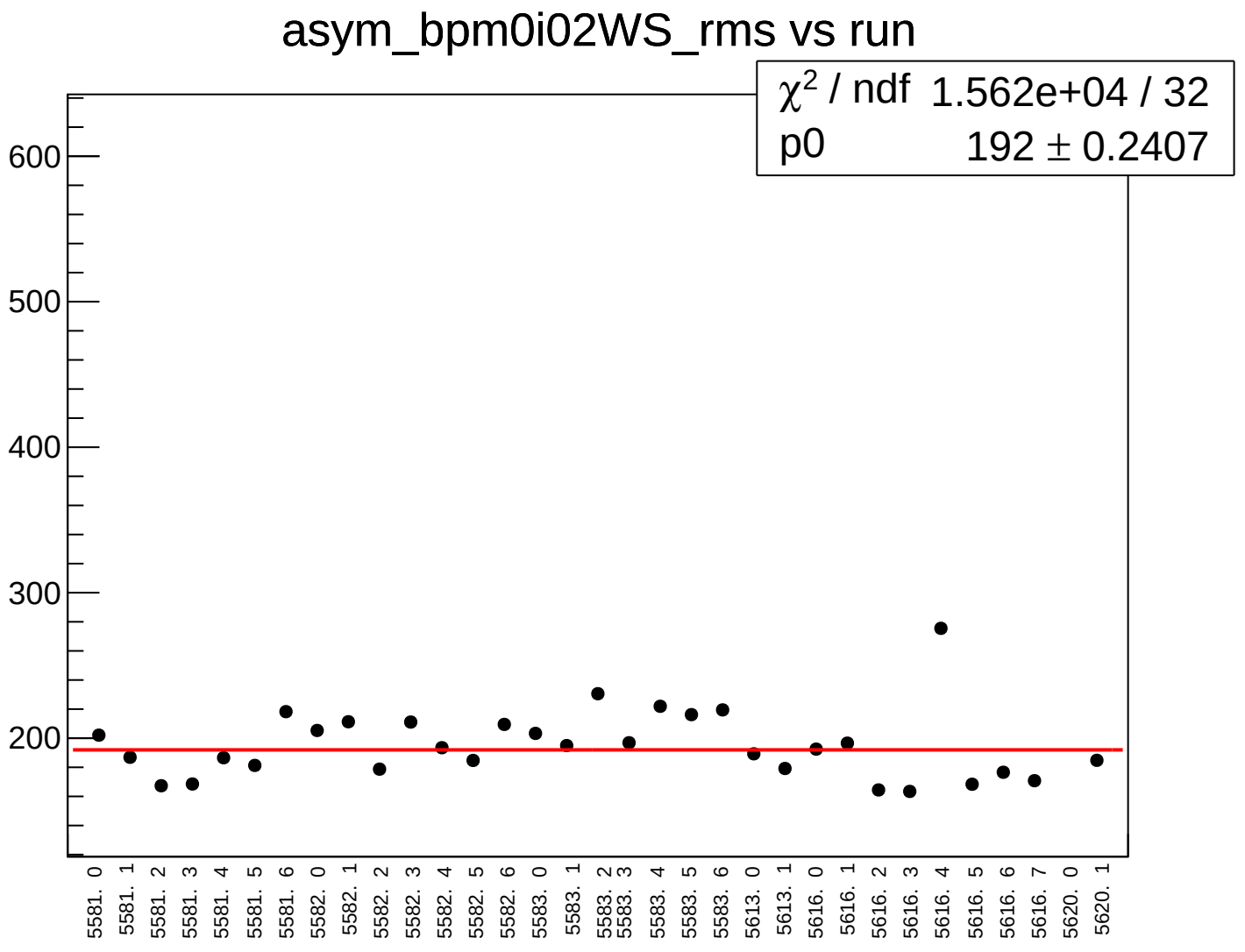

asym_bcm0l02_mean vs run
χ² / ndf 177.2 / 32
p0 −93.06 ± 513.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 48.37
Std Dev 0
6
4
2
0
−2
−4
−6

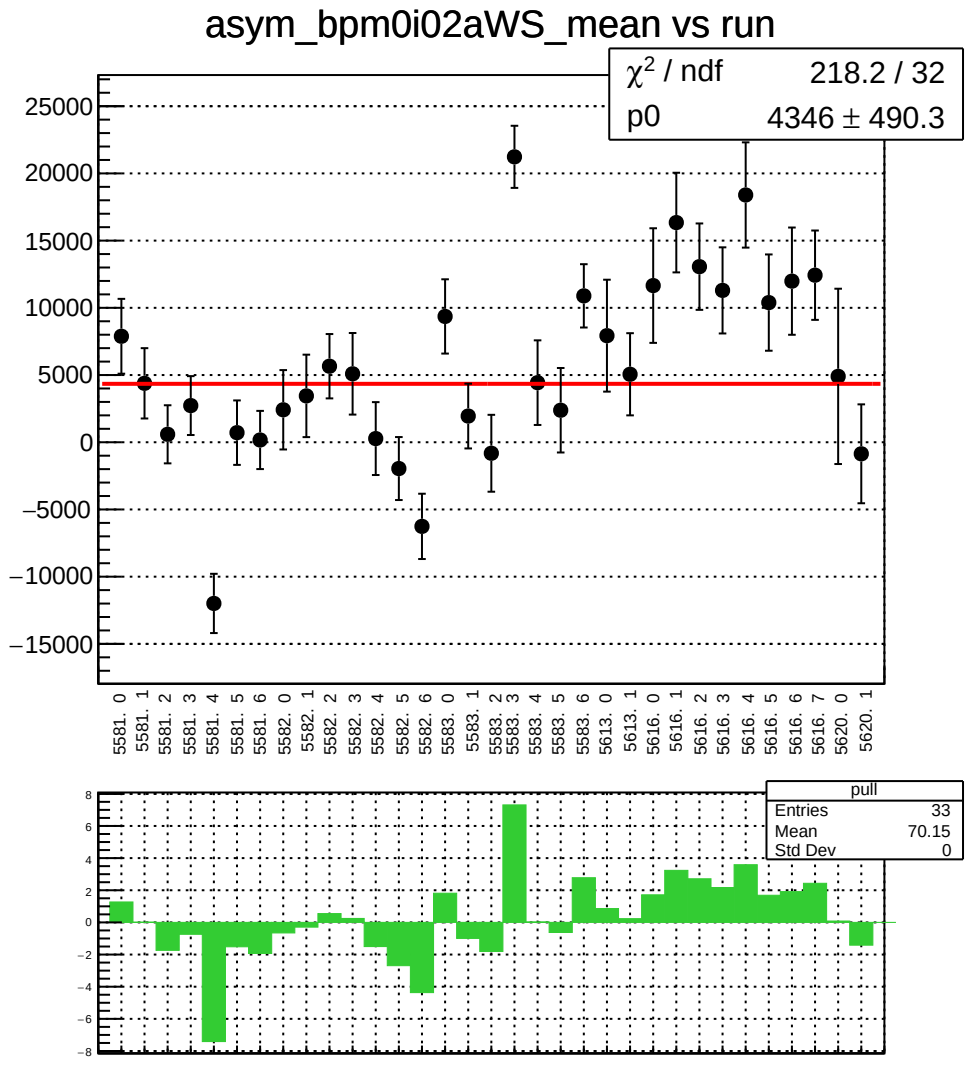

pull1D
Entries 33
Mean 0.3458
Std Dev 2.292
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

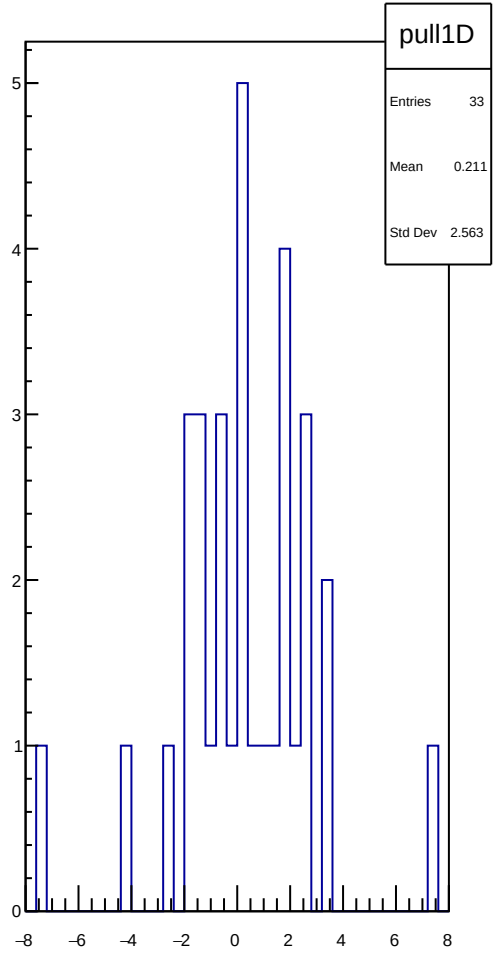

asym_bcm0l02_rms vs run
χ² / ndf 6.098e+04 / 32
p0 279.2 ± 0.3632
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

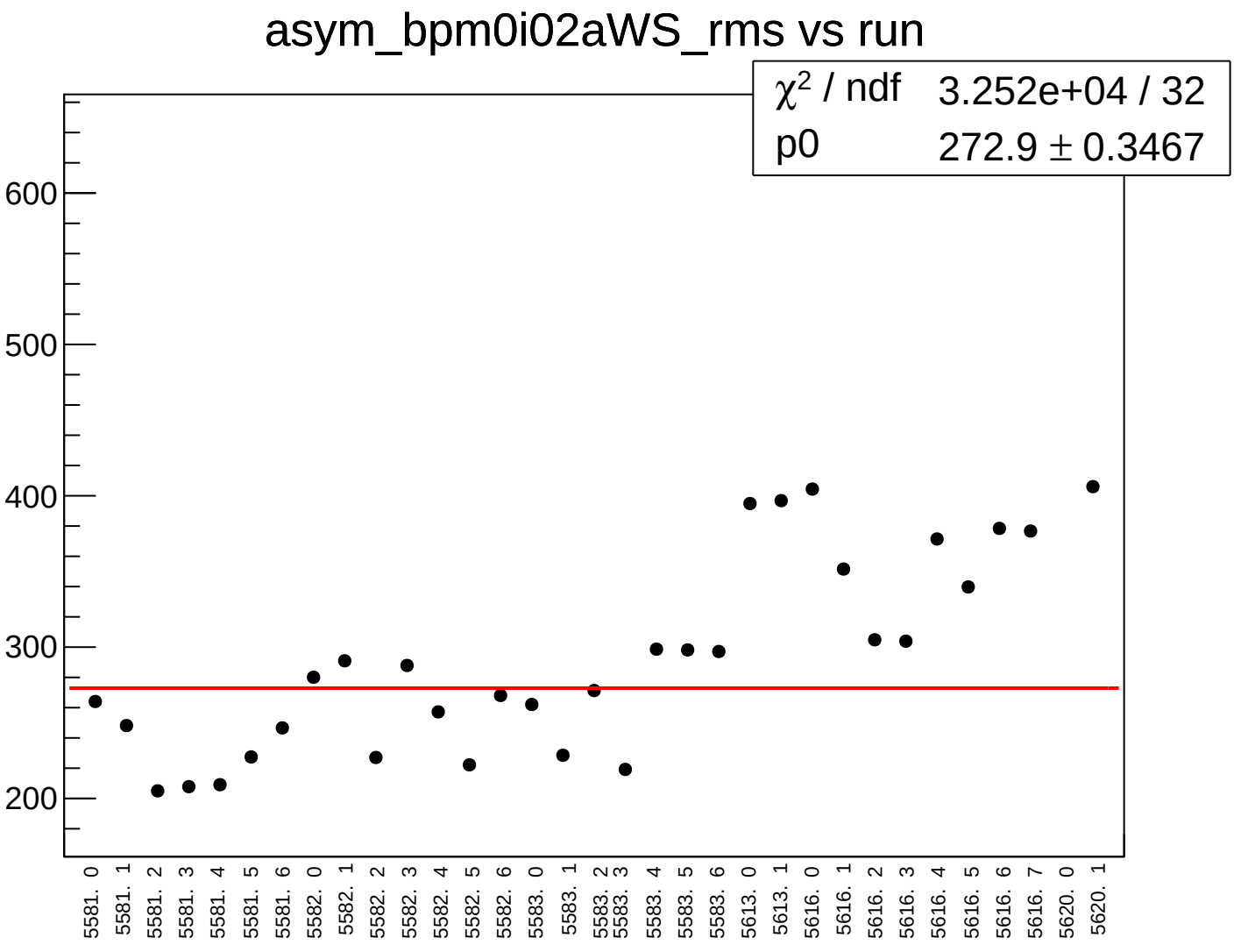

asym_bpm0i02WS_mean vs run
χ² / ndf 908.3 / 32
p0 1.148e+04 ± 340.4
30000
20000
10000
0
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −373.6
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10

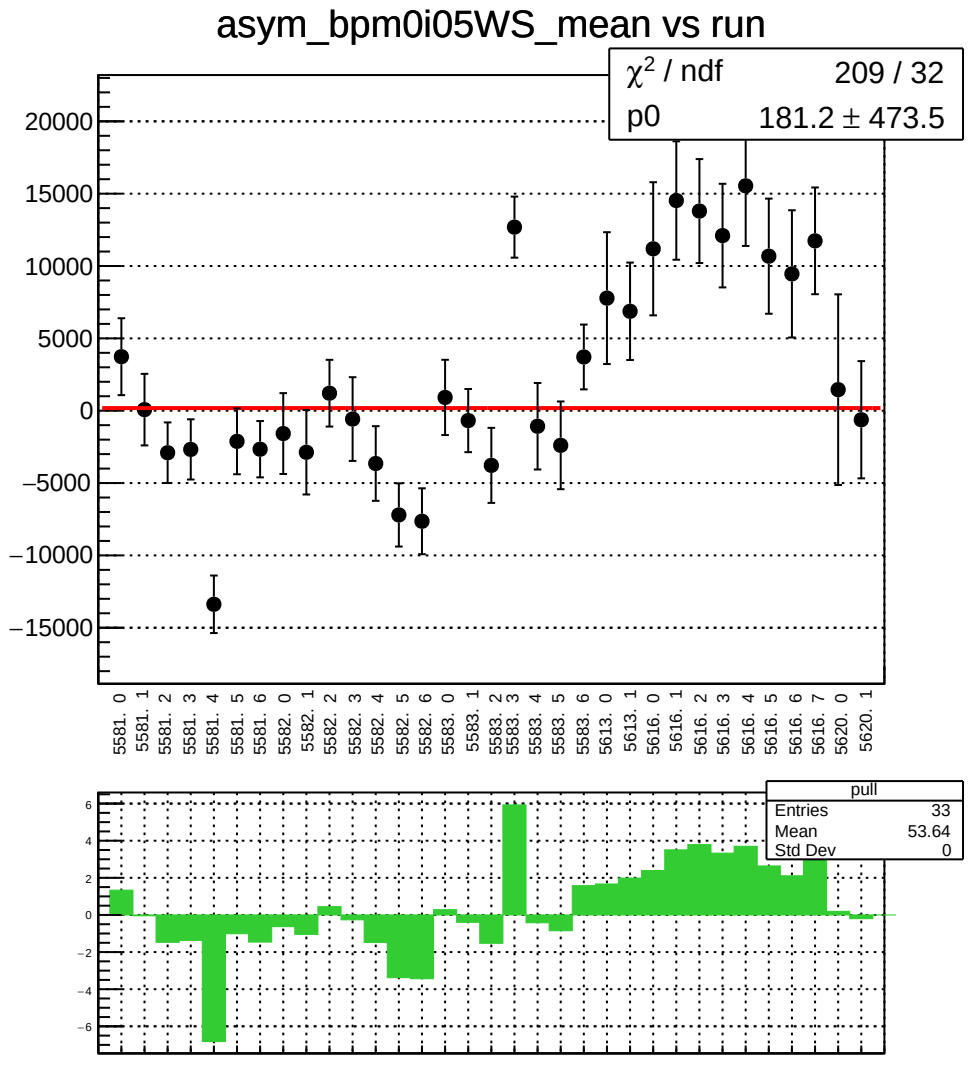

pull1D
Entries 33
Mean −0.0295
Std Dev 4.399
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

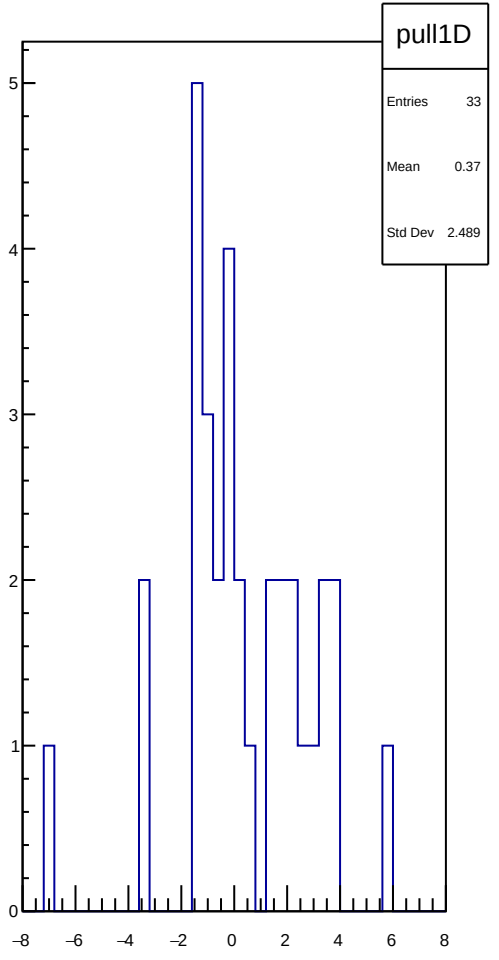

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1.562e+04 / 32
p0 192 ± 0.2407
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

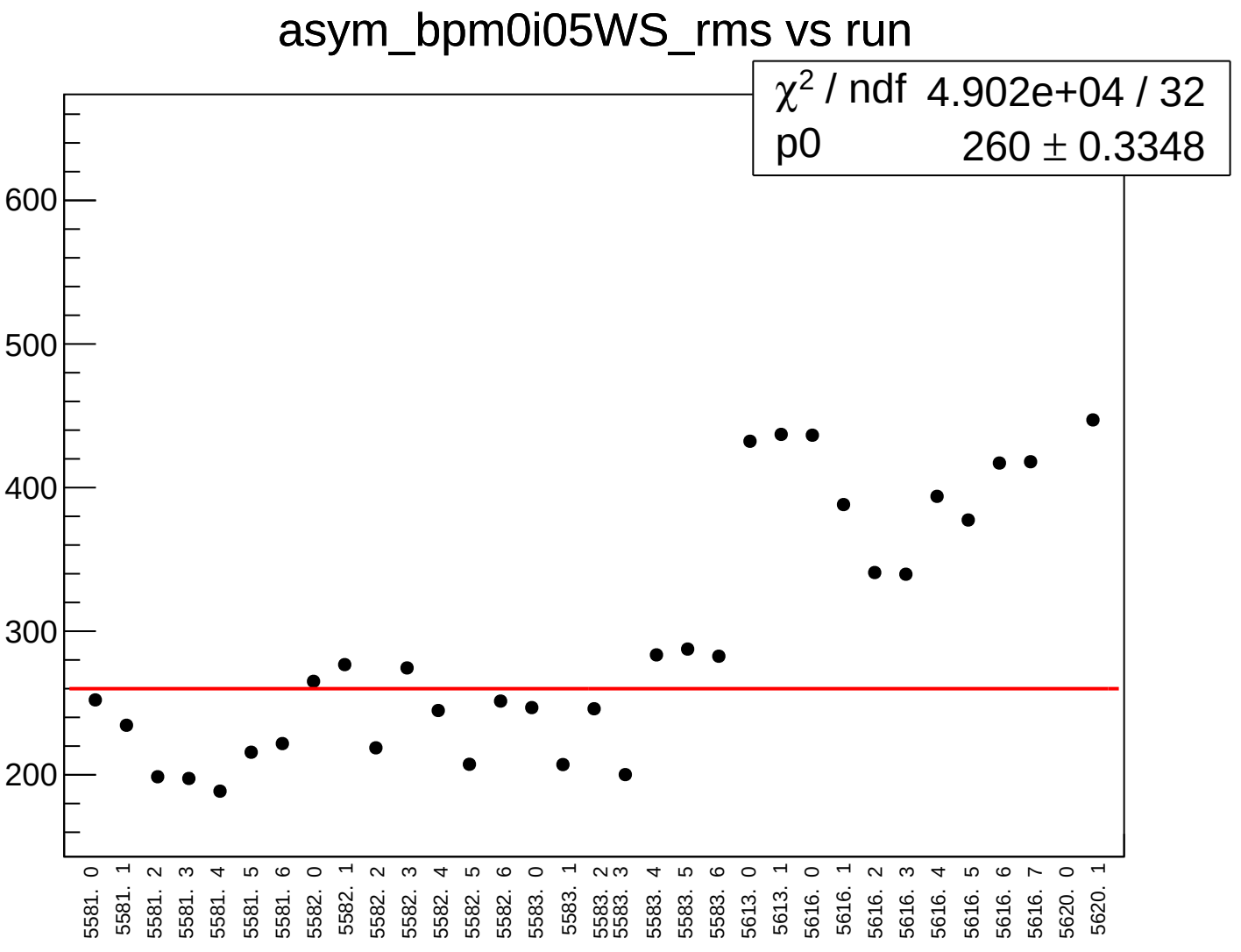

asym_bpm0i02aWS_mean vs run
χ² / ndf 218.2 / 32
p0 4346 ± 490.3
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 70.15
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

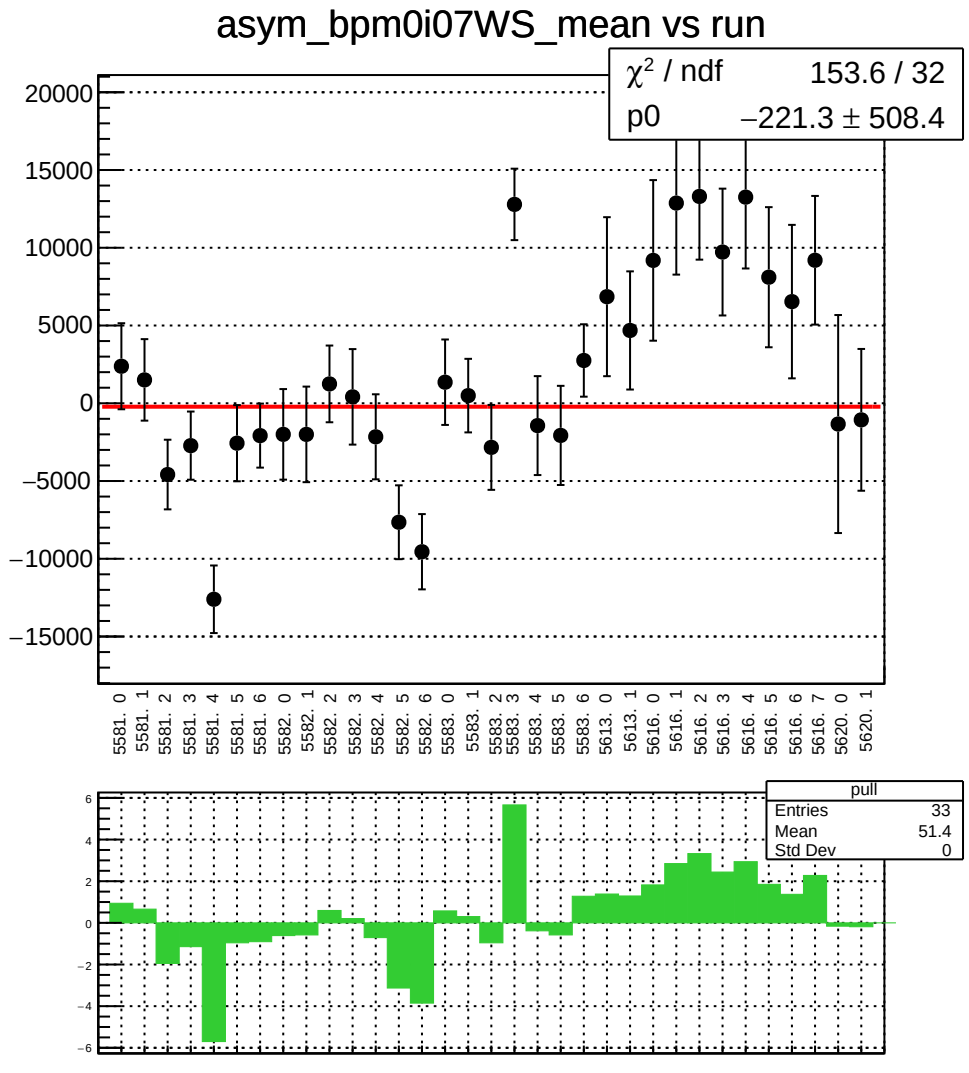

pull1D
Entries 33
Mean 0.211
Std Dev 2.563
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

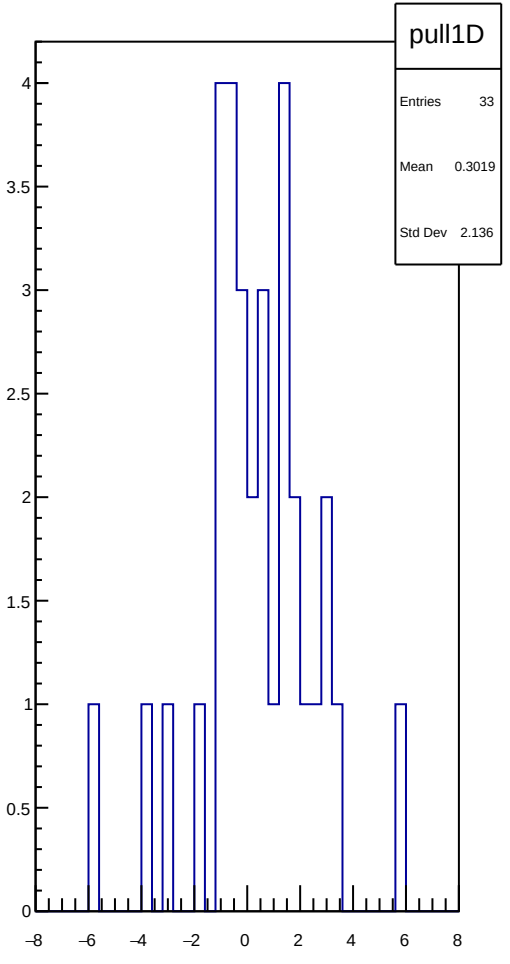

asym_bpm0i02aWS_rms vs run
χ² / ndf 3.252e+04 / 32
p0 272.9 ± 0.3467
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

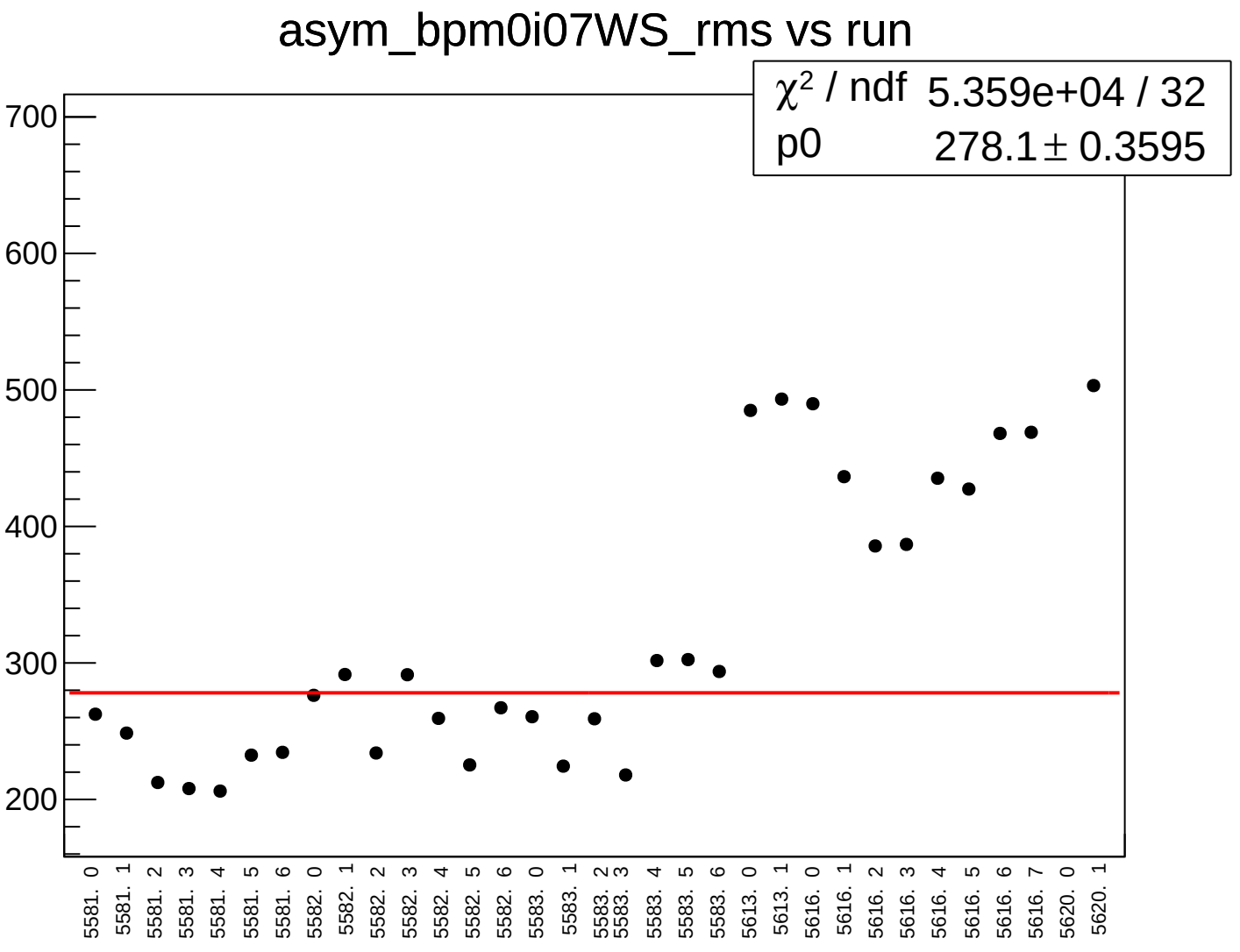

asym_bpm0i05WS_mean vs run
χ² / ndf 209 / 32
p0 181.2 ± 473.5
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 53.64
Std Dev 0
6
4
2
0
−2
−4
−6

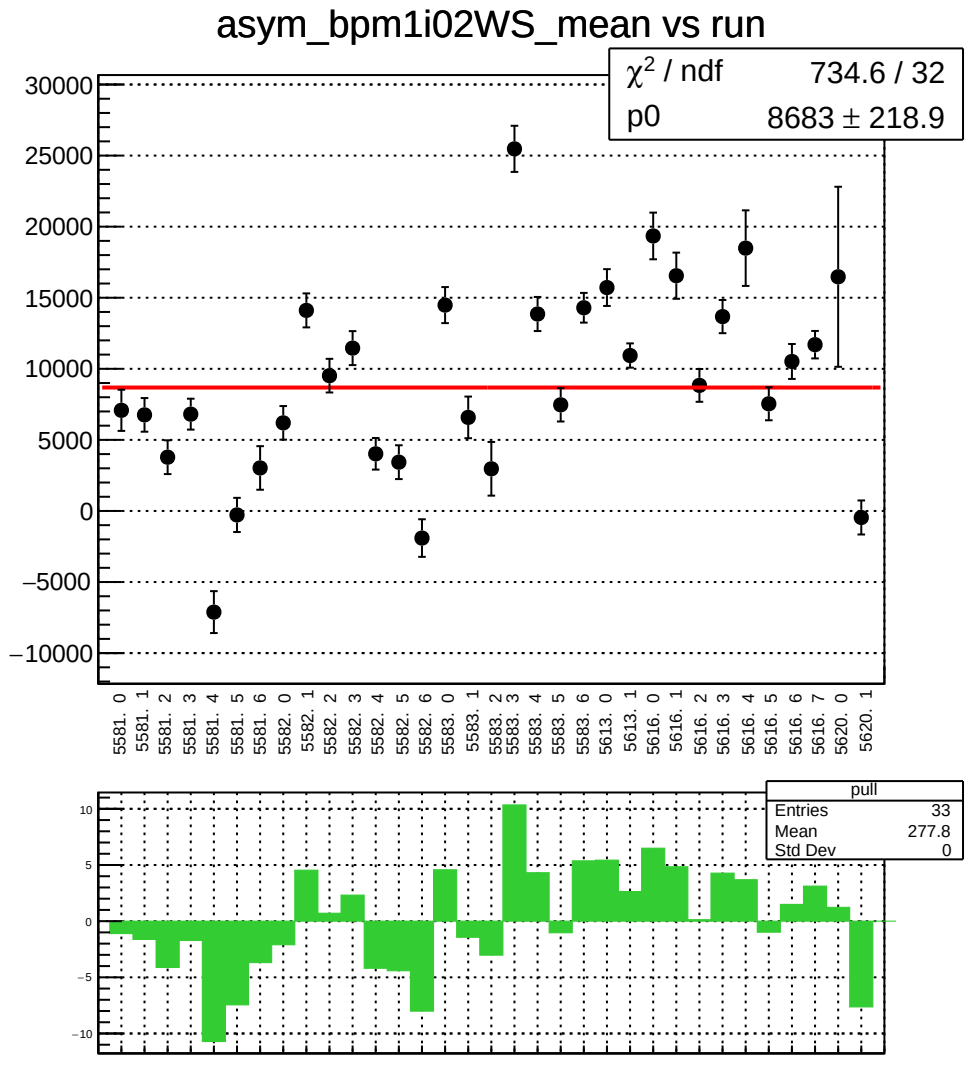

pull1D
Entries 33
Mean 0.37
Std Dev 2.489
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

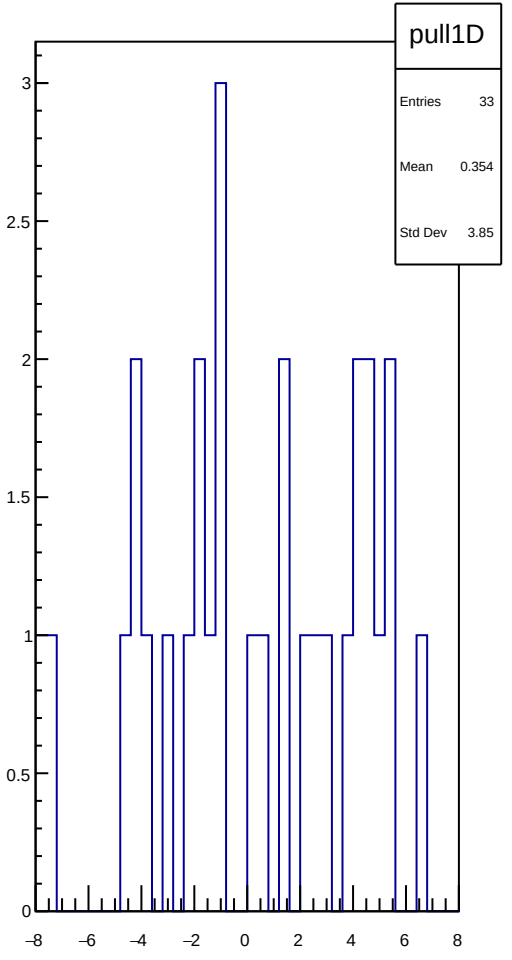

asym_bpm0i05WS_rms vs run
χ² / ndf 4.902e+04 / 32
p0 260 ± 0.3348
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

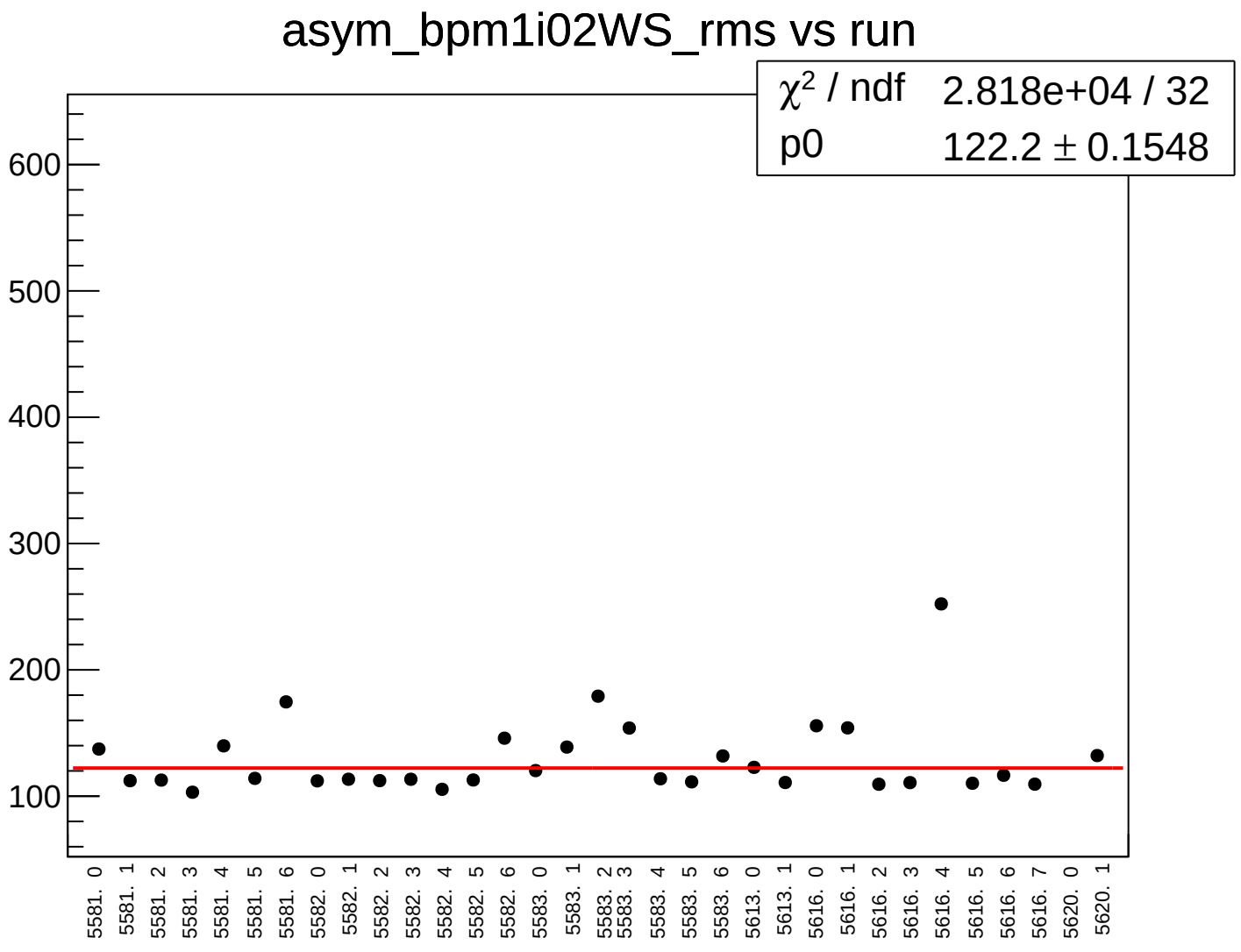

asym_bpm0i07WS_mean vs run
χ² / ndf 153.6 / 32
p0 −221.3 ± 508.4
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 51.4
Std Dev 0
6
4
2
0
−2
−4
−6

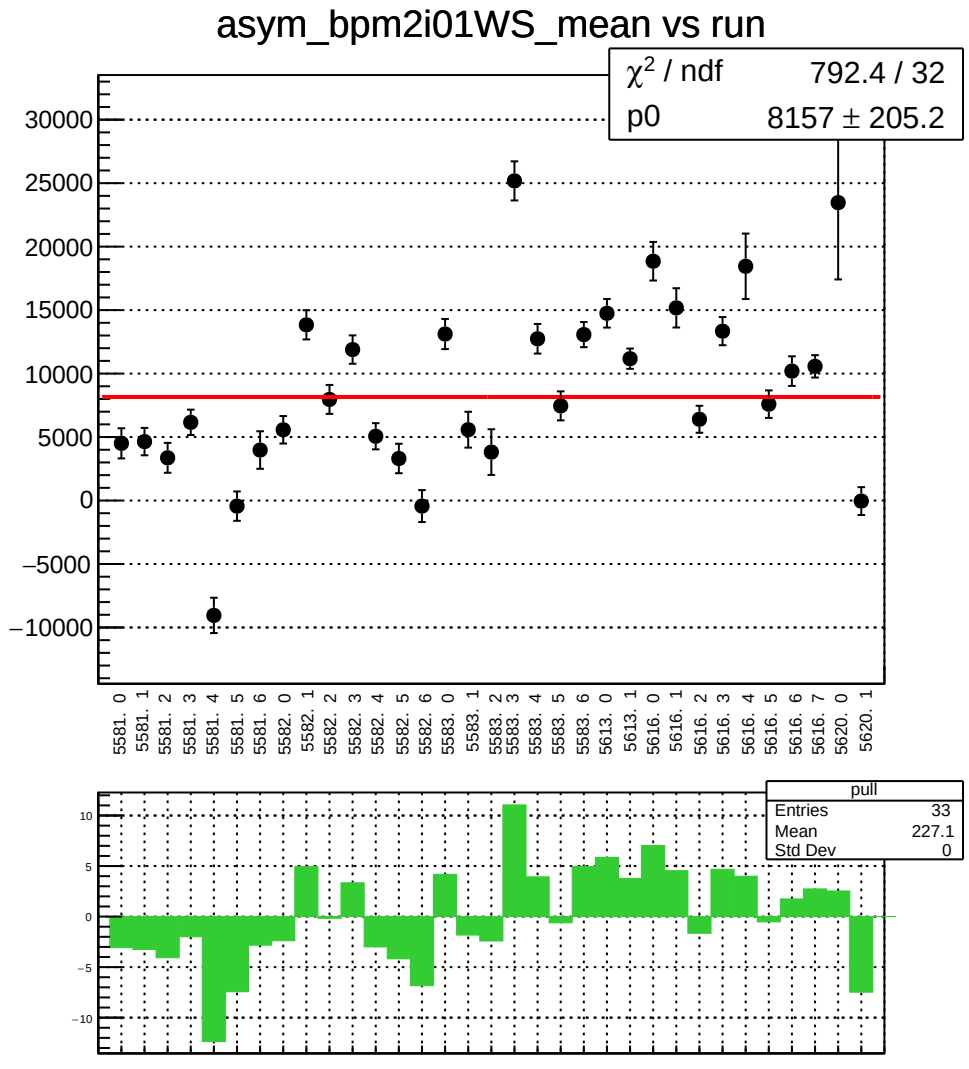

pull1D
Entries 33
Mean 0.3019
Std Dev 2.136
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

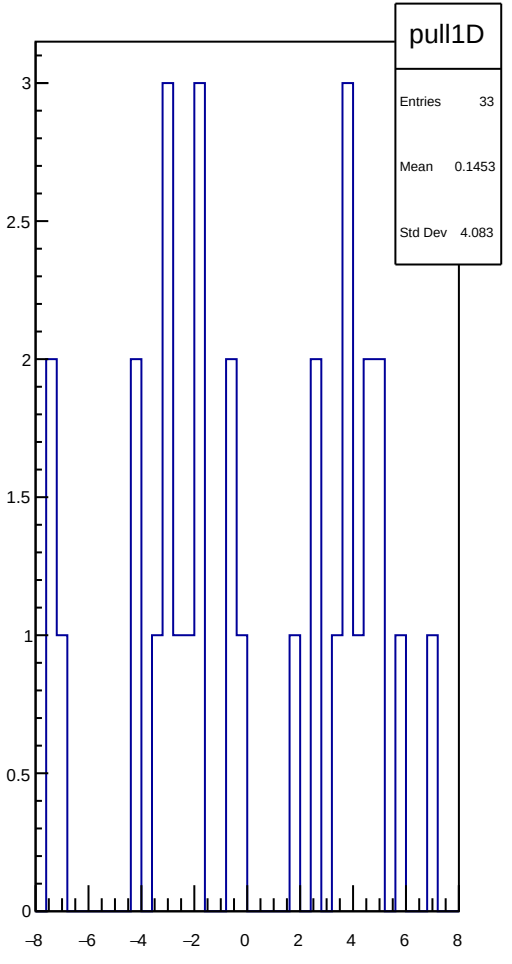

asym_bpm0i07WS_rms vs run
χ² / ndf 5.359e+04 / 32
p0 278.1 ± 0.3595
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

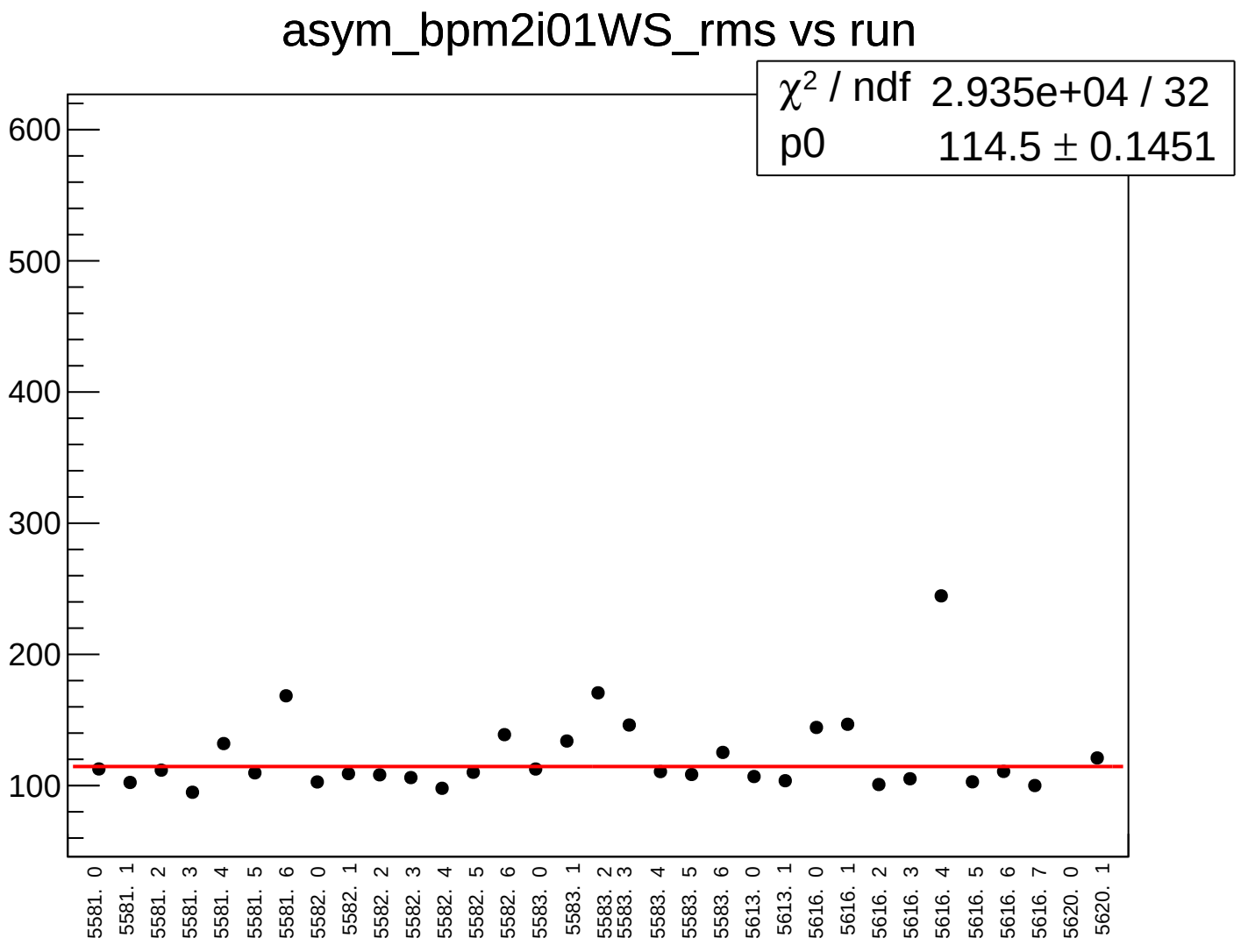

asym_bpm1i02WS_mean vs run
χ² / ndf 734.6 / 32
p0 8683 ± 218.9
30000
25000
20000
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 277.8
Std Dev 0
10
5
0
−5
−10

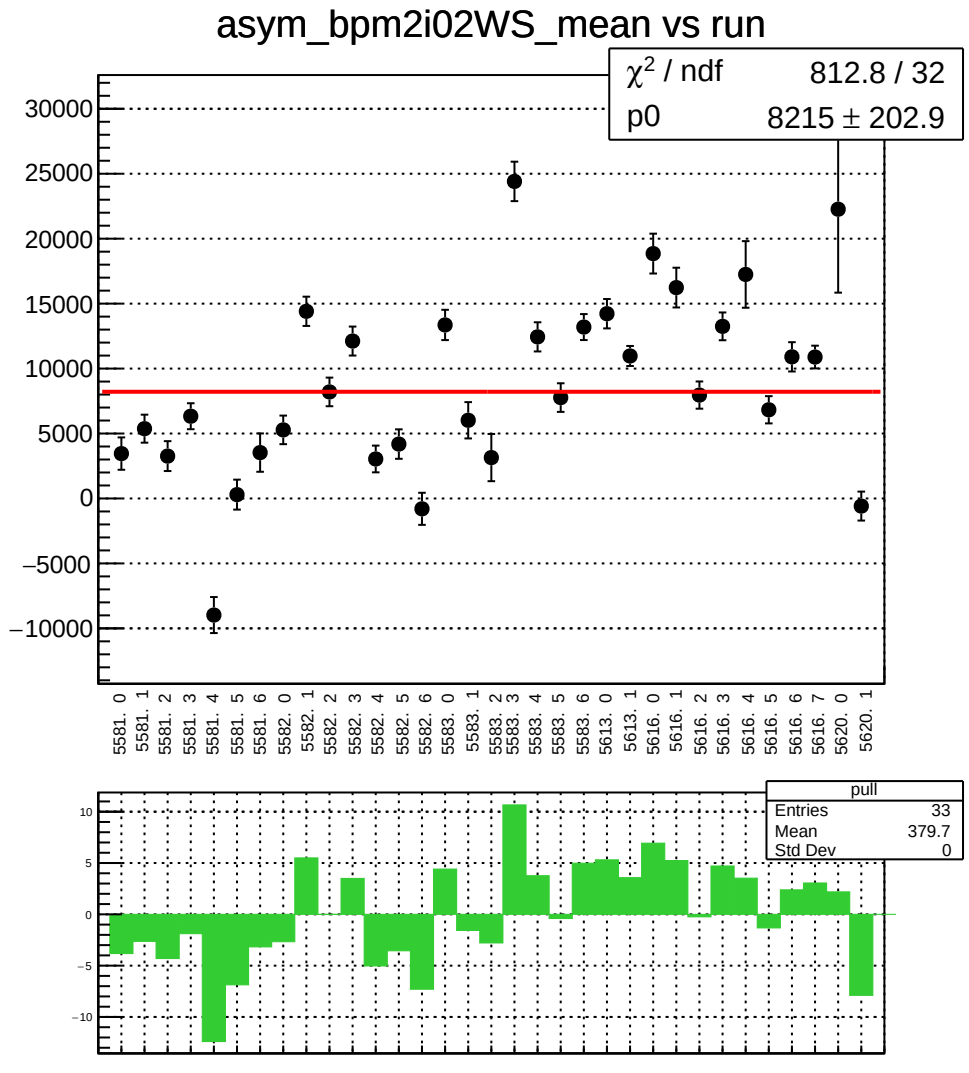

pull1D
Entries 33
Mean 0.354
Std Dev 3.85
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

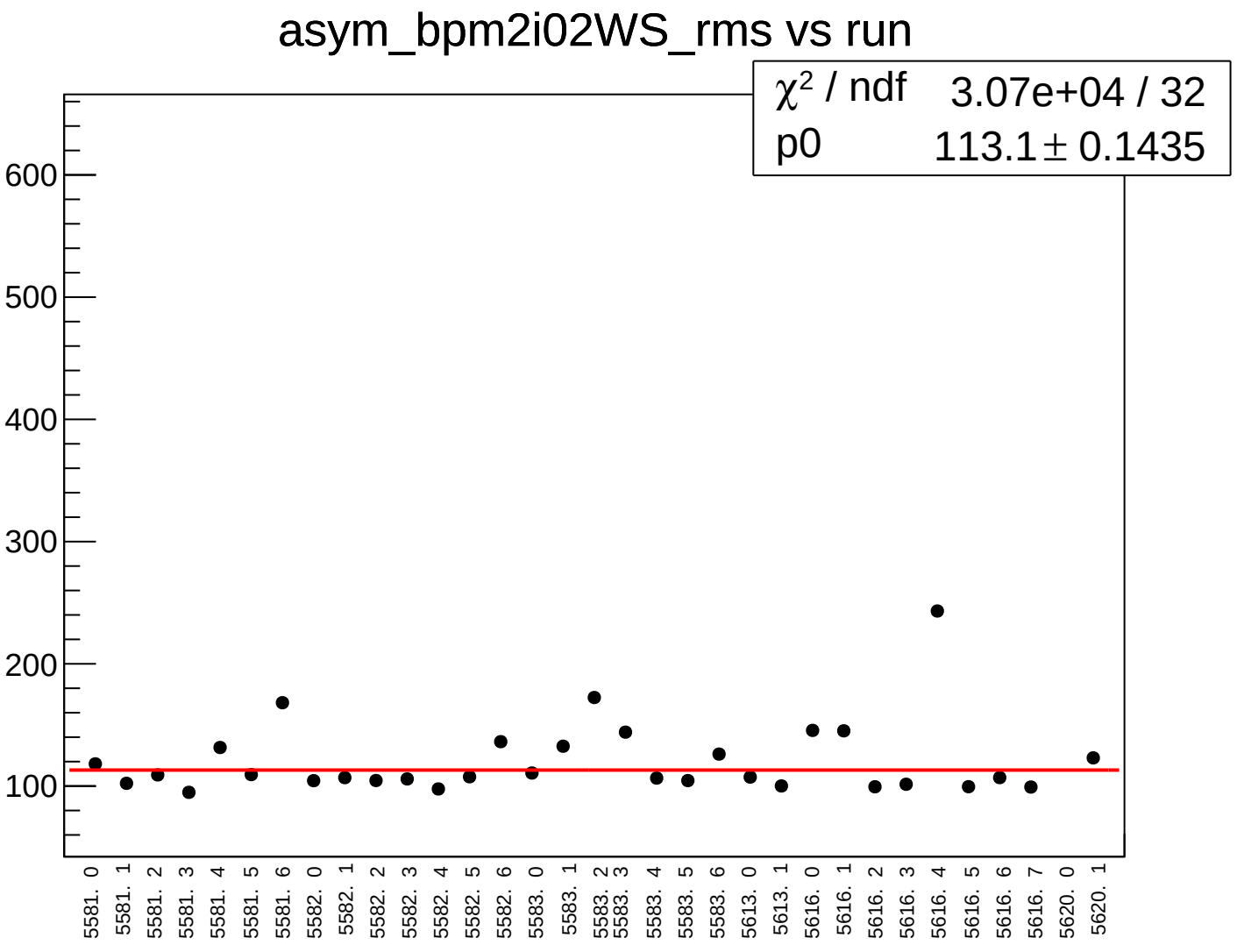

asym_bpm1i02WS_rms vs run
χ² / ndf 2.818e+04 / 32
p0 122.2 ± 0.1548
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

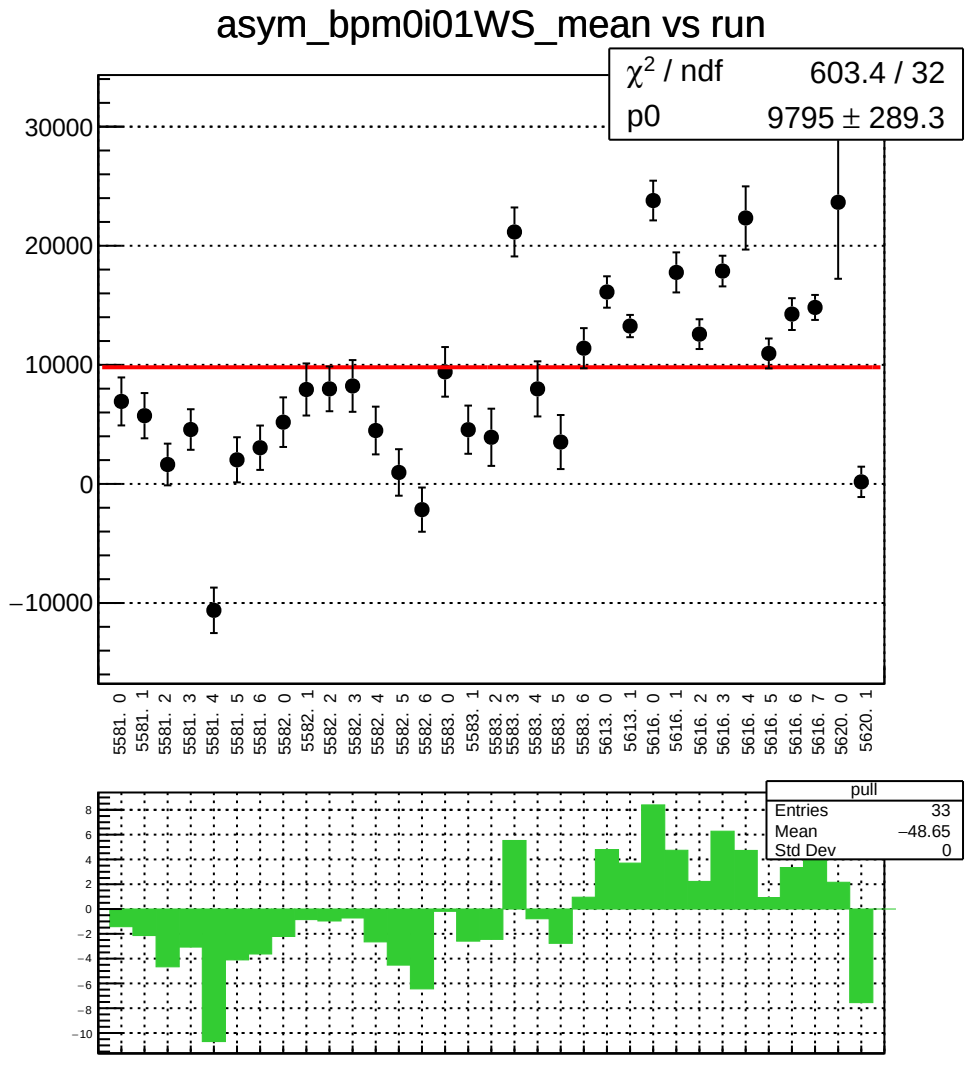

asym_bpm2i01WS_mean vs run
χ² / ndf 792.4 / 32
p0 8157 ± 205.2
30000
25000
20000
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 227.1
Std Dev 0
10
5
0
−5
−10

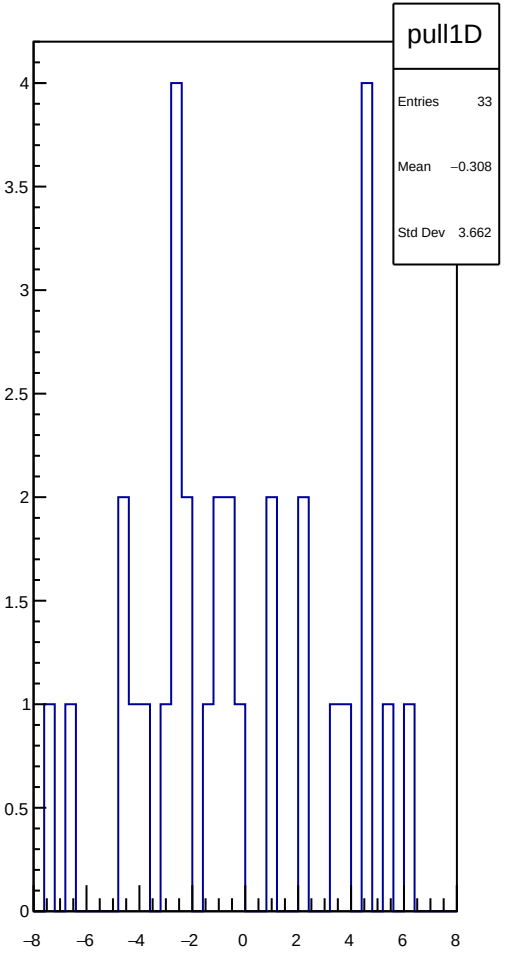

pull1D
Entries 33
Mean 0.1453
Std Dev 4.083
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

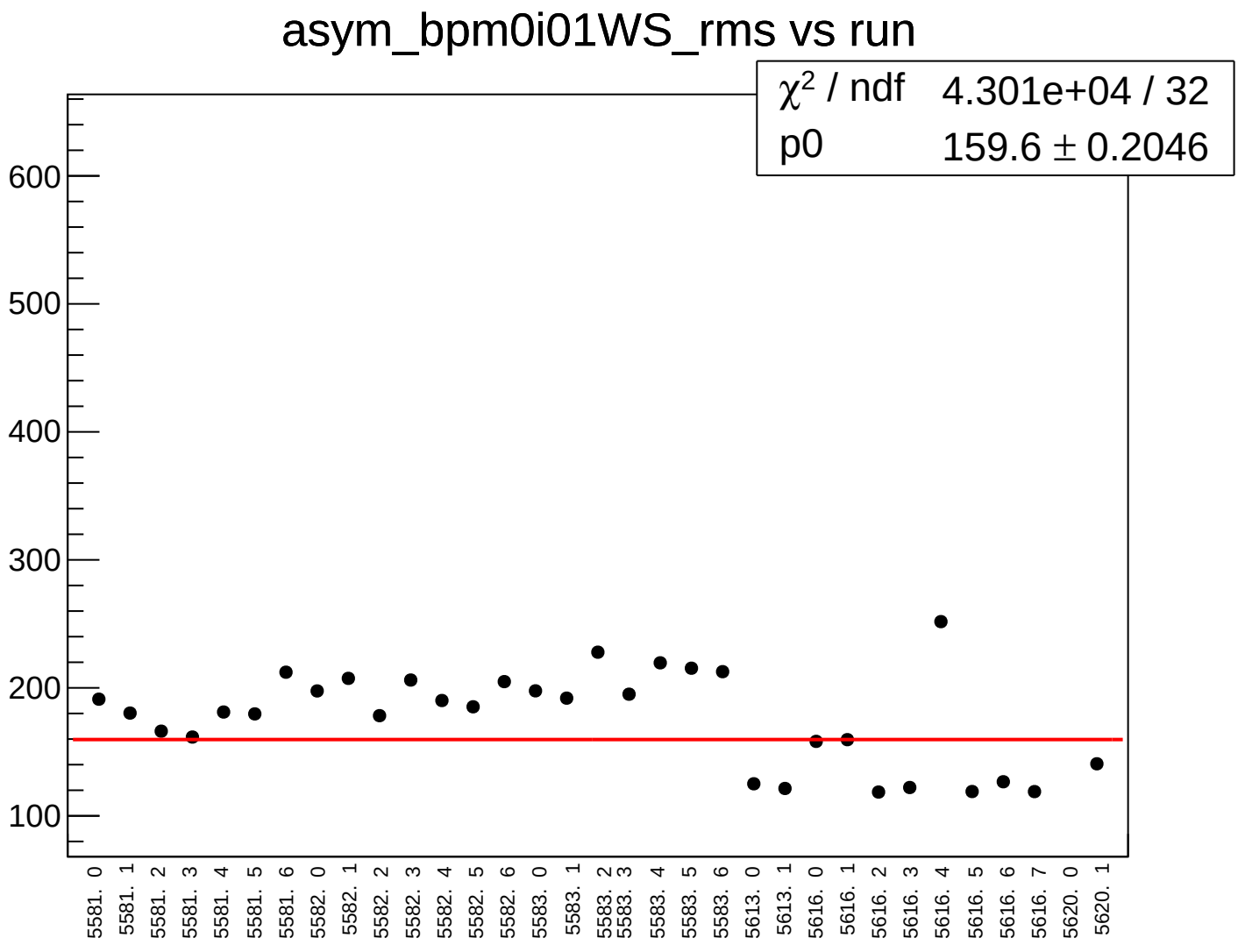

asym_bpm2i01WS_rms vs run
χ² / ndf 2.935e+04 / 32
p0 114.5 ± 0.1451
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

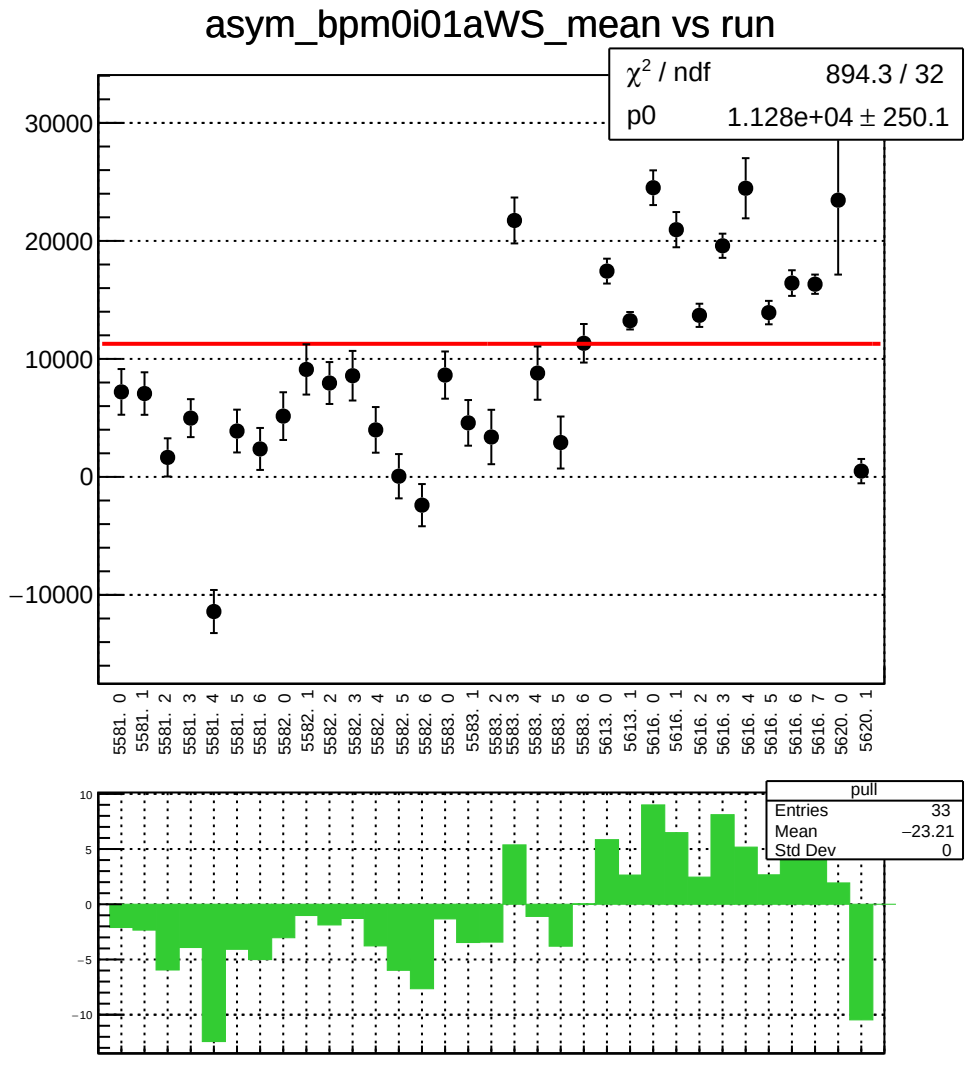

asym_bpm2i02WS_mean vs run
χ² / ndf 812.8 / 32
p0 8215 ± 202.9
30000
25000
20000
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 379.7
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 33
Mean 0.1162
Std Dev 4.193
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

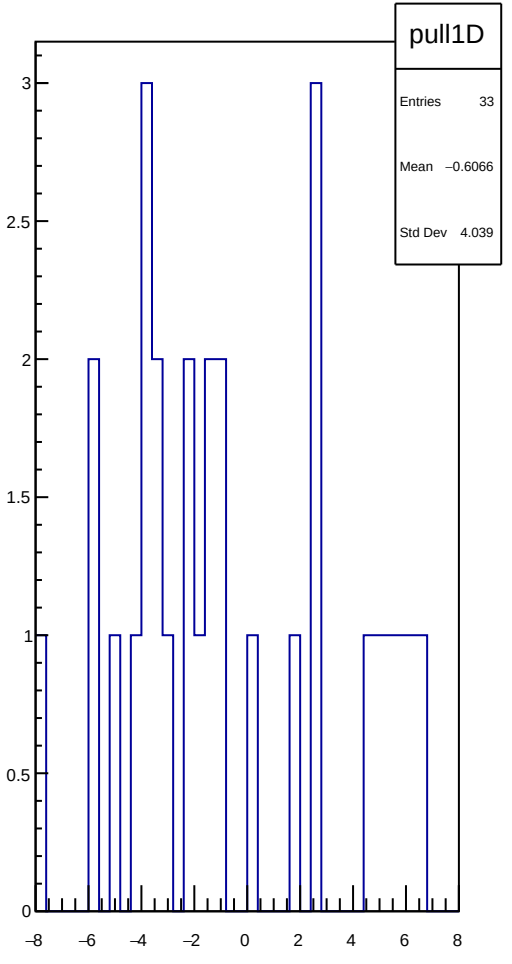

asym_bpm2i02WS_rms vs run
χ² / ndf 3.07e+04 / 32
p0 113.1 ± 0.1435
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

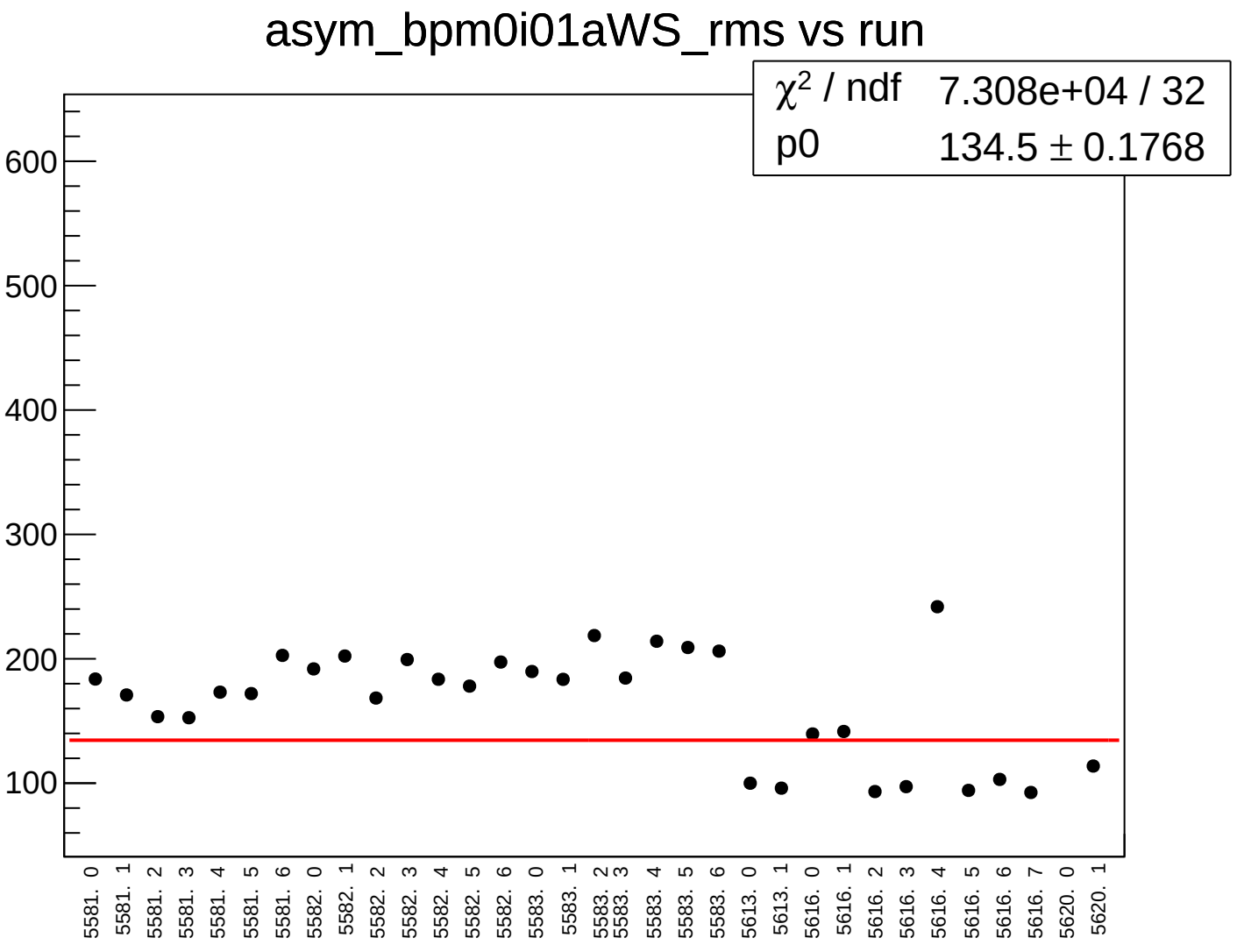

asym_bpm0i01WS_mean vs run
χ² / ndf 603.4 / 32
p0 9795 ± 289.3
30000
20000
10000
0
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −48.65
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10

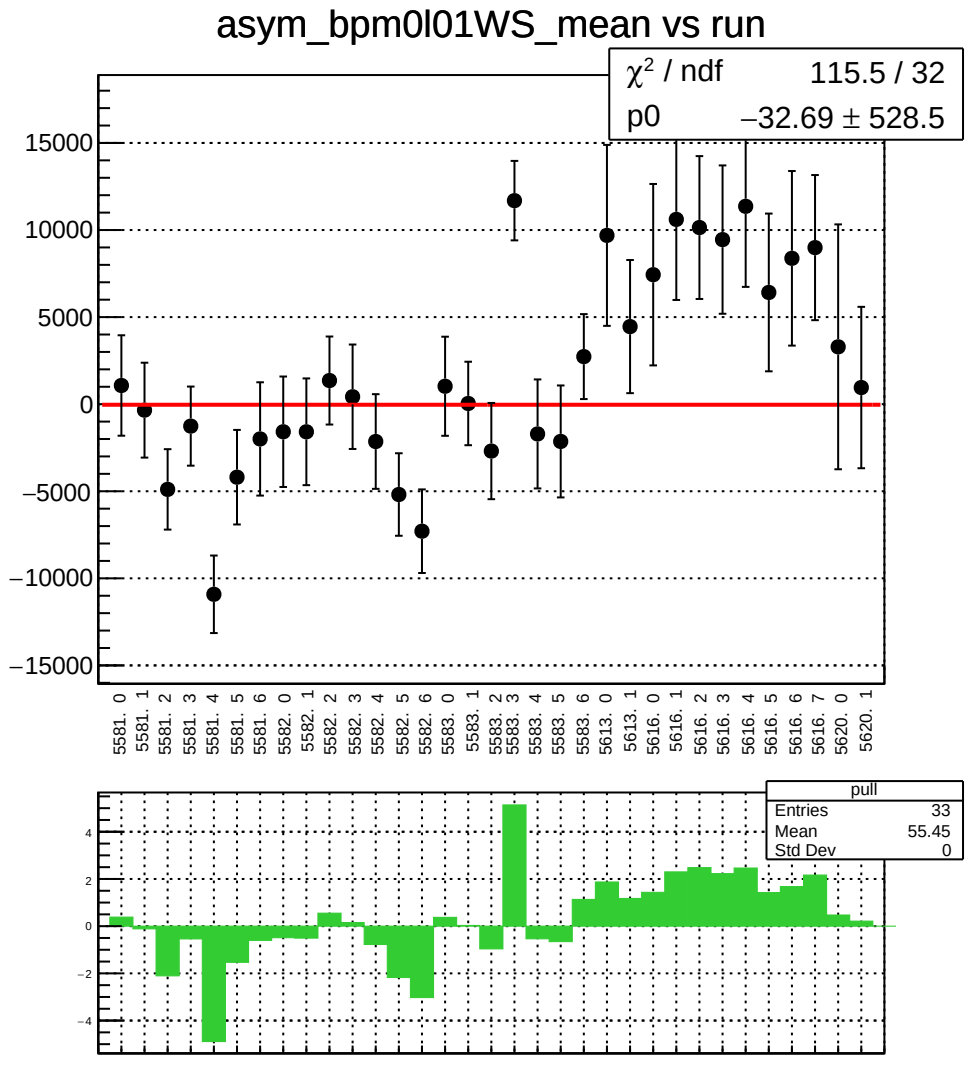

pull1D
Entries 33
Mean −0.308
Std Dev 3.662
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

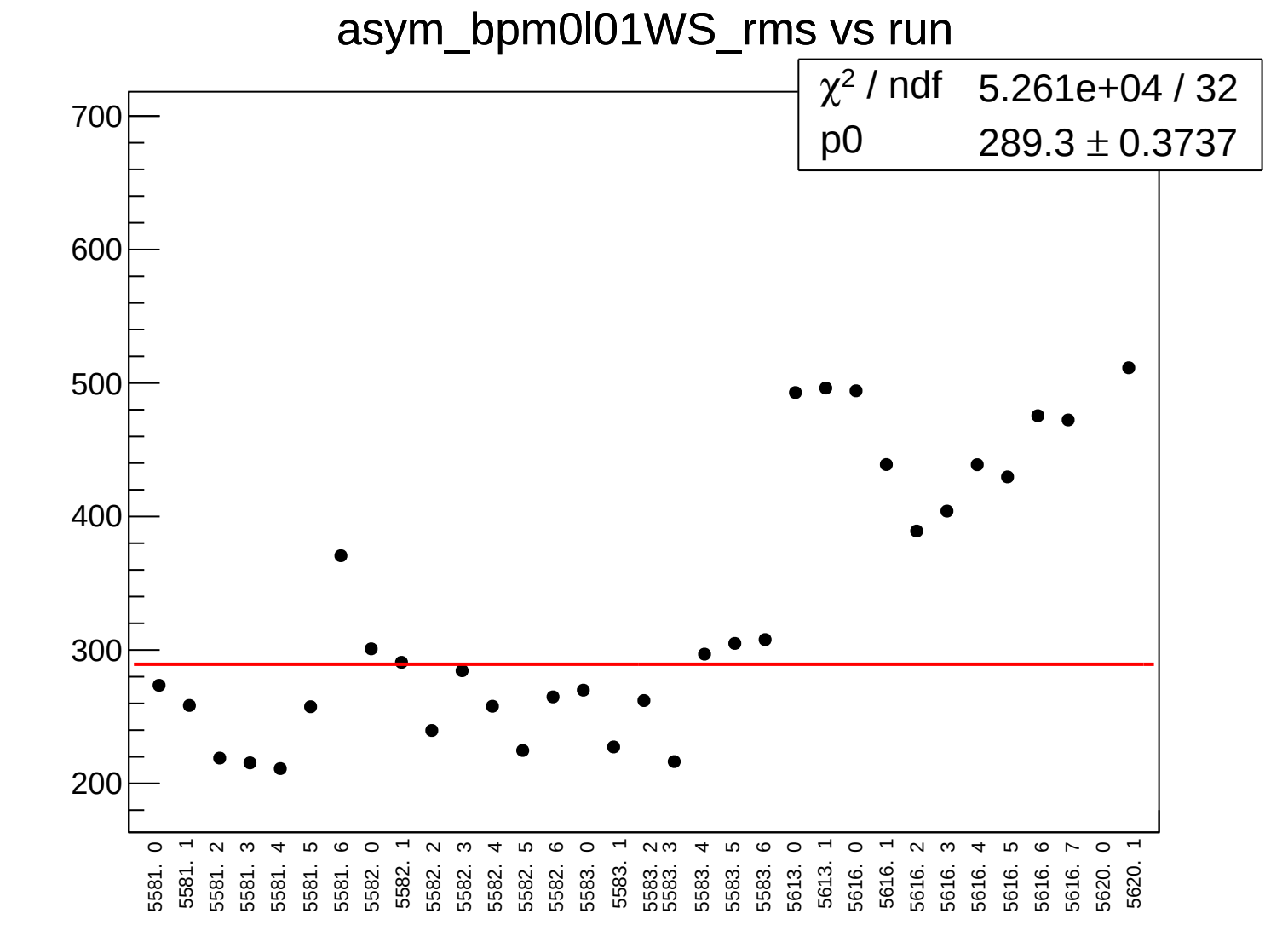

asym_bpm0i01WS_rms vs run
χ² / ndf 4.301e+04 / 32
p0 159.6 ± 0.2046
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

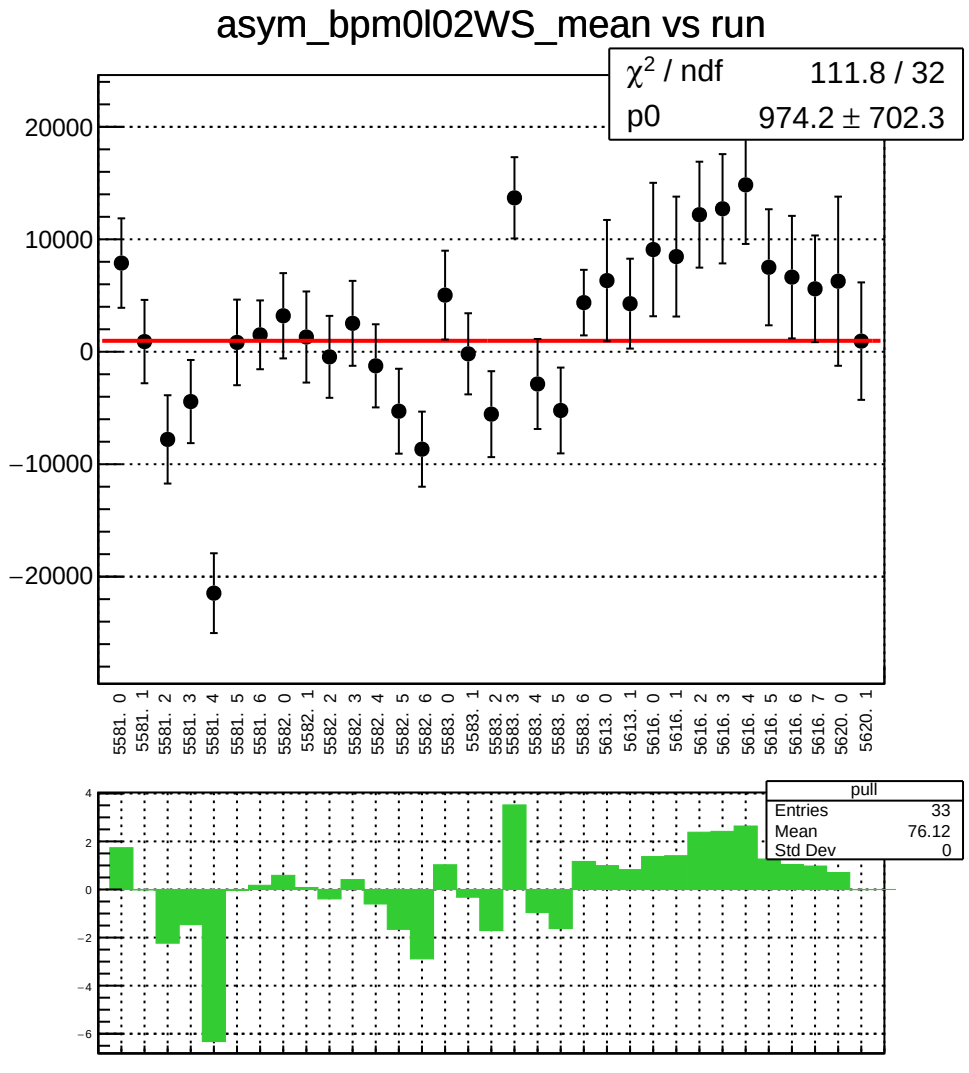

asym_bpm0i01aWS_mean vs run
χ² / ndf 894.3 / 32
p0 1.128e+04 ± 250.1
30000
20000
10000
0
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −23.21
Std Dev 0
10
5
0
−5
−10

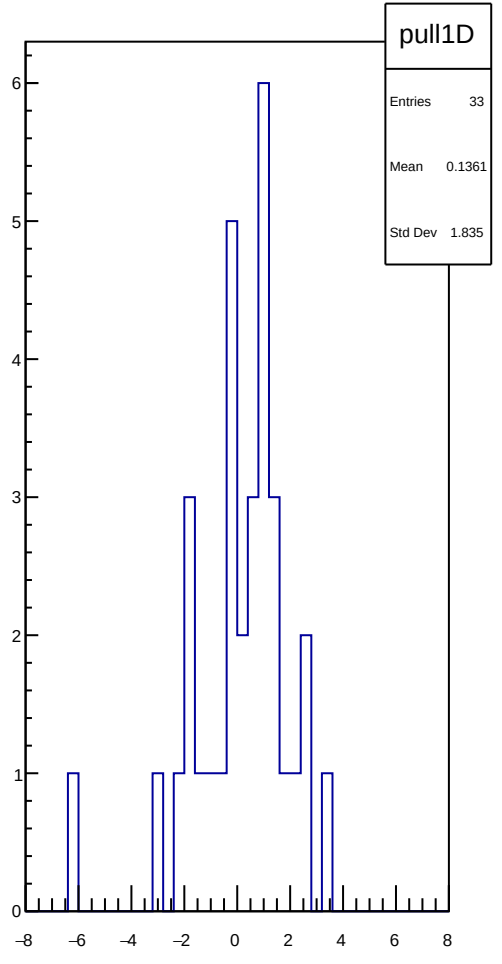

pull1D
Entries 33
Mean −0.6066
Std Dev 4.039
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

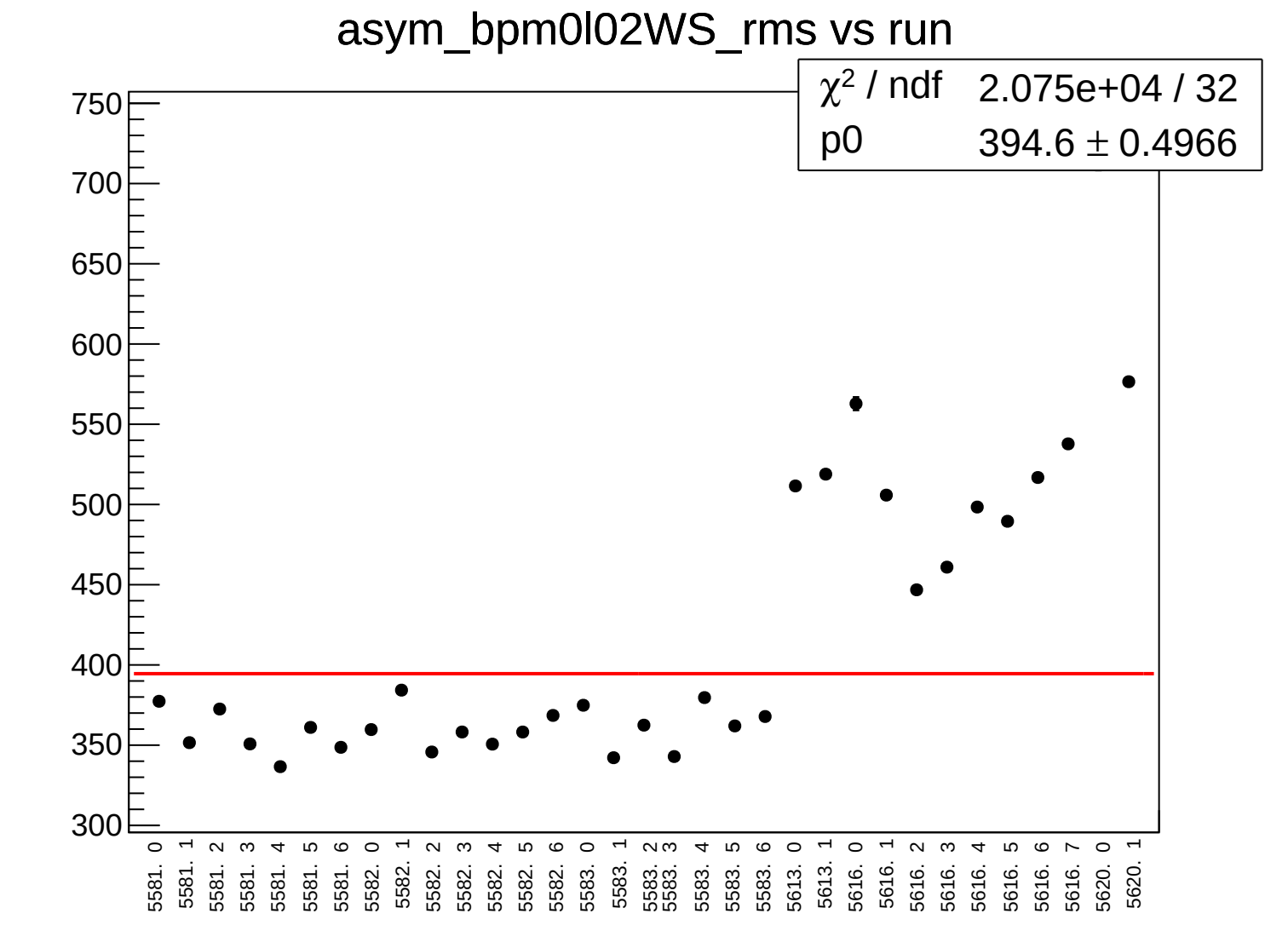

asym_bpm0i01aWS_rms vs run
χ² / ndf 7.308e+04 / 32
p0 134.5 ± 0.1768
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

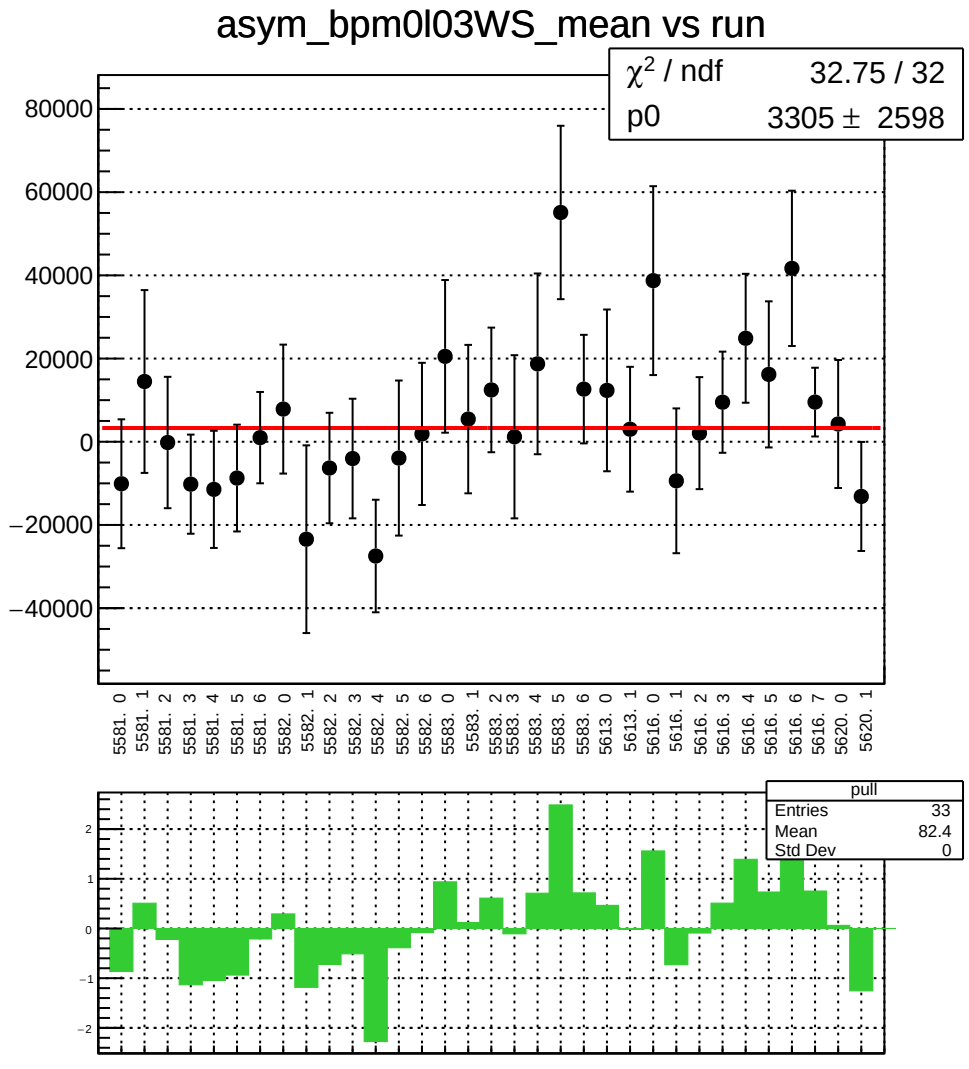

asym_bpm0l01WS_mean vs run
χ² / ndf 115.5 / 32
p0 −32.69 ± 528.5
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 55.45
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 33
Mean 0.2653
Std Dev 1.852
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

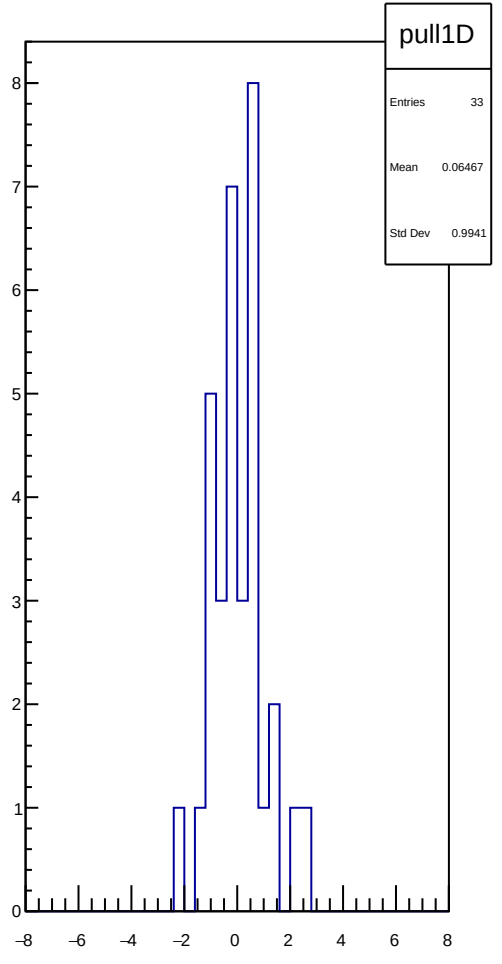

asym_bpm0l01WS_rms vs run
χ² / ndf 5.261e+04 / 32
p0 289.3 ± 0.3737
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

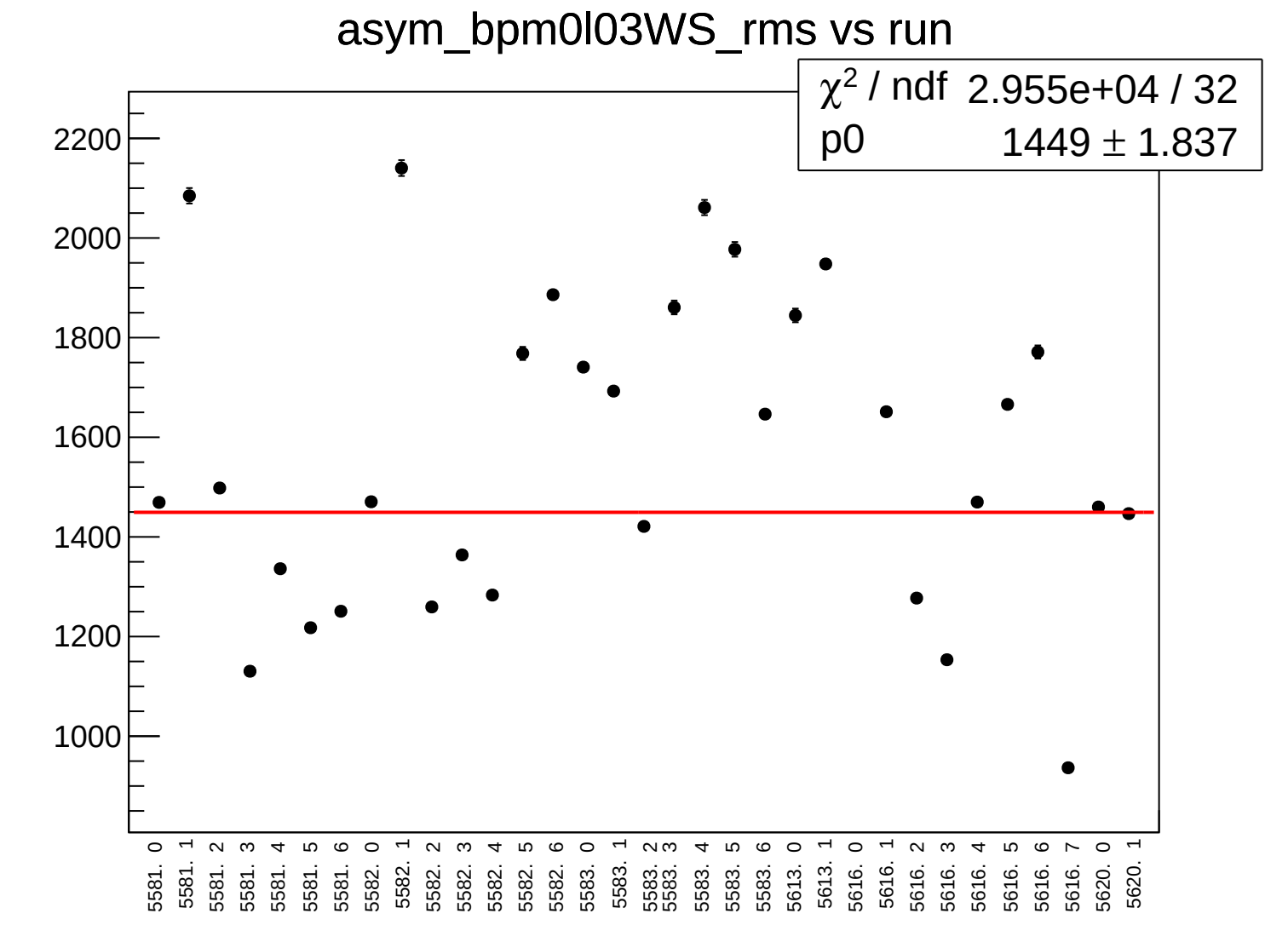

asym_bpm0l02WS_mean vs run
χ² / ndf 111.8 / 32
p0 974.2 ± 702.3
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 76.12
Std Dev 0
4
2
0
−2
−4
−6

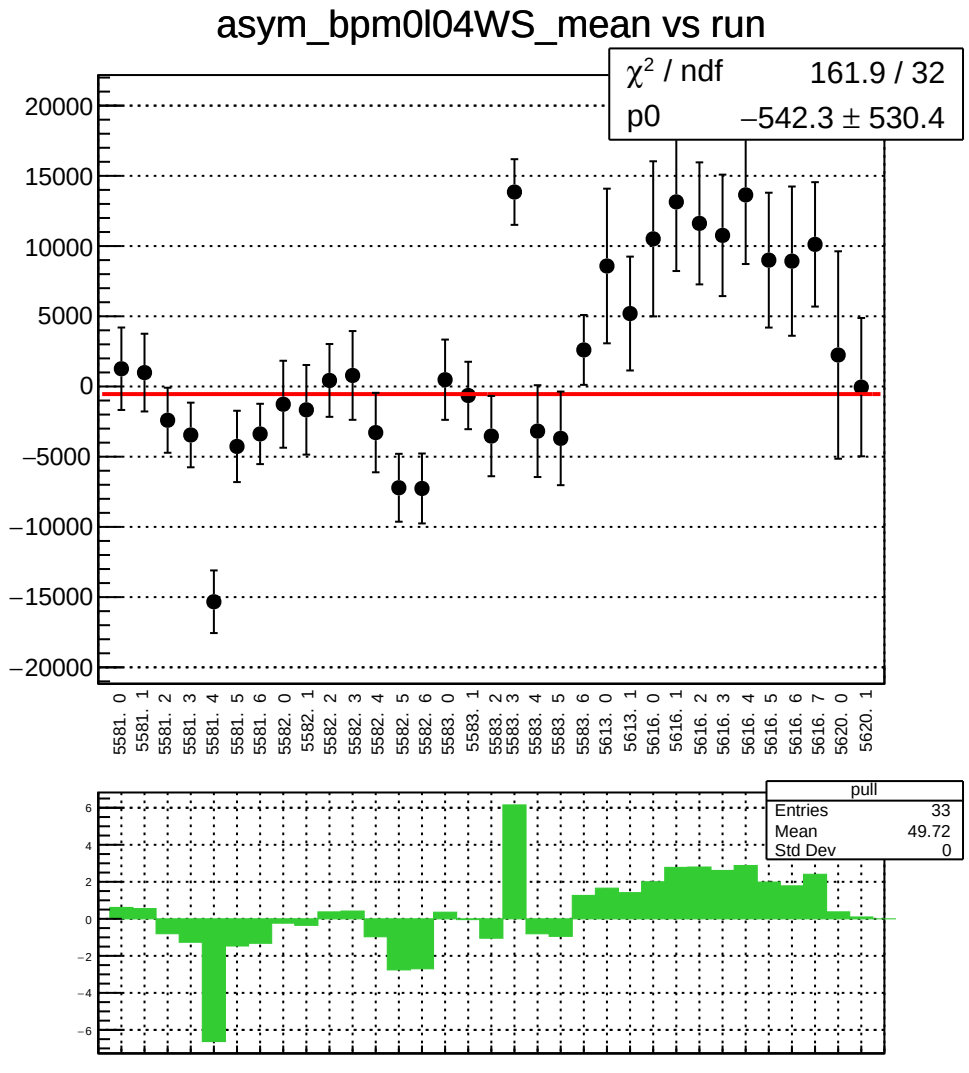

pull1D
Entries 33
Mean 0.1361
Std Dev 1.835
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

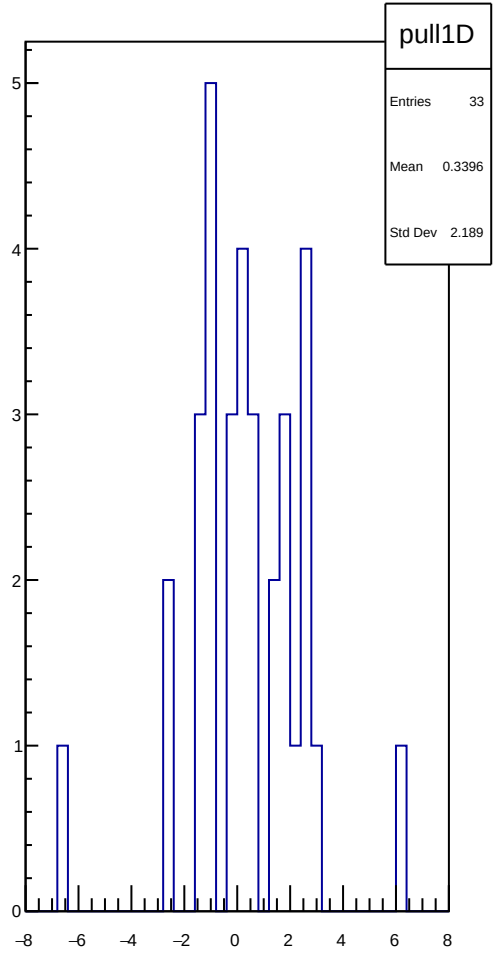

asym_bpm0l02WS_rms vs run
χ² / ndf 2.075e+04 / 32
p0 394.6 ± 0.4966
750
700
650
600
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

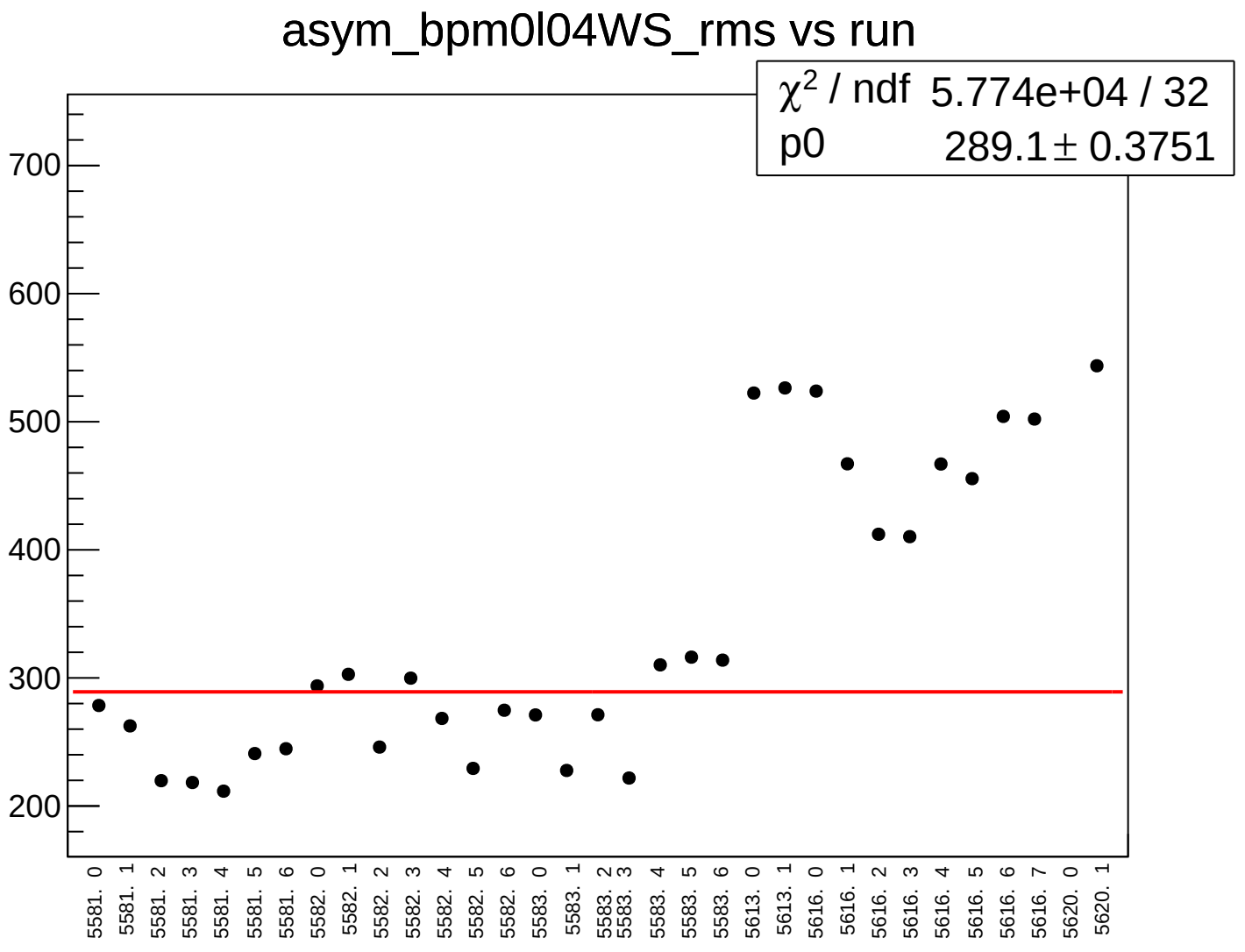

asym_bpm0l03WS_mean vs run
χ² / ndf 32.75 / 32
p0 3305 ± 2598
80000
60000
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 82.4
Std Dev 0
2
1
0
−1
−2

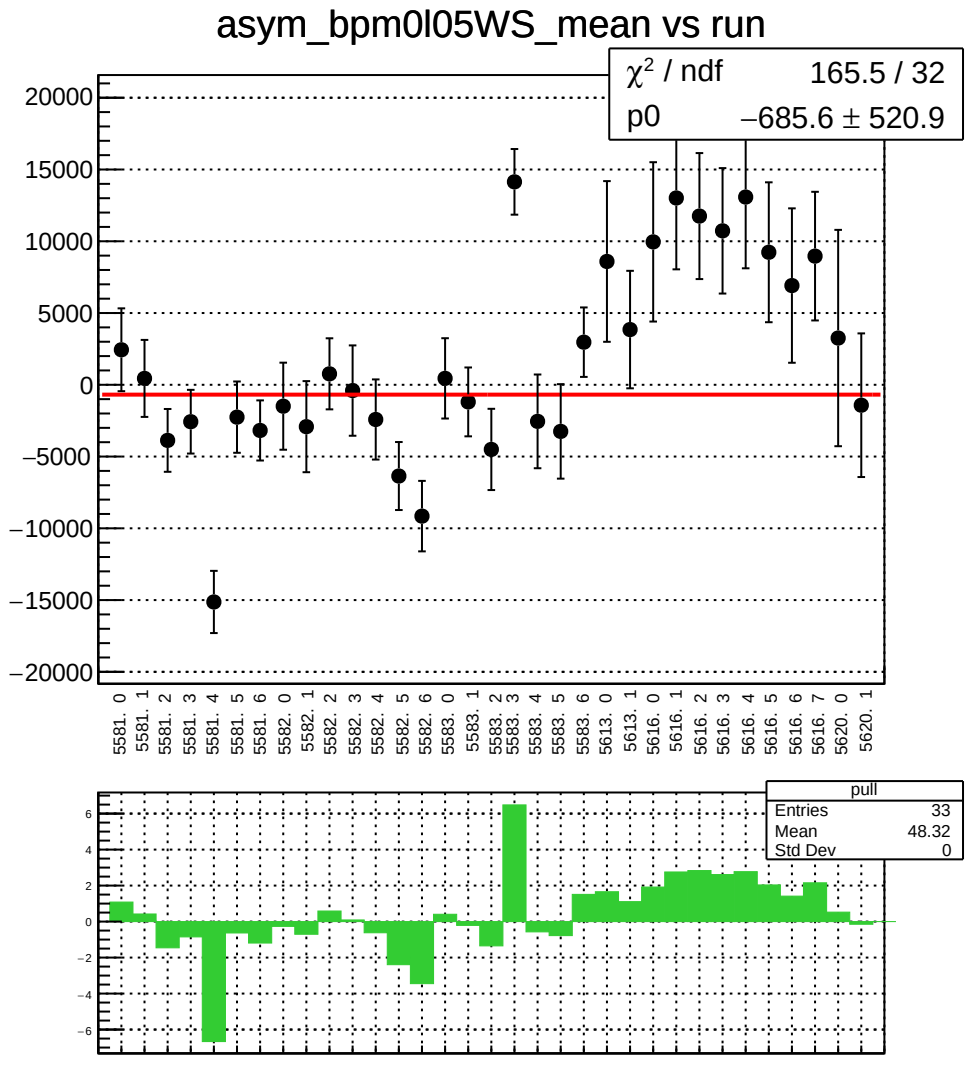

pull1D
Entries 33
Mean 0.06467
Std Dev 0.9941
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

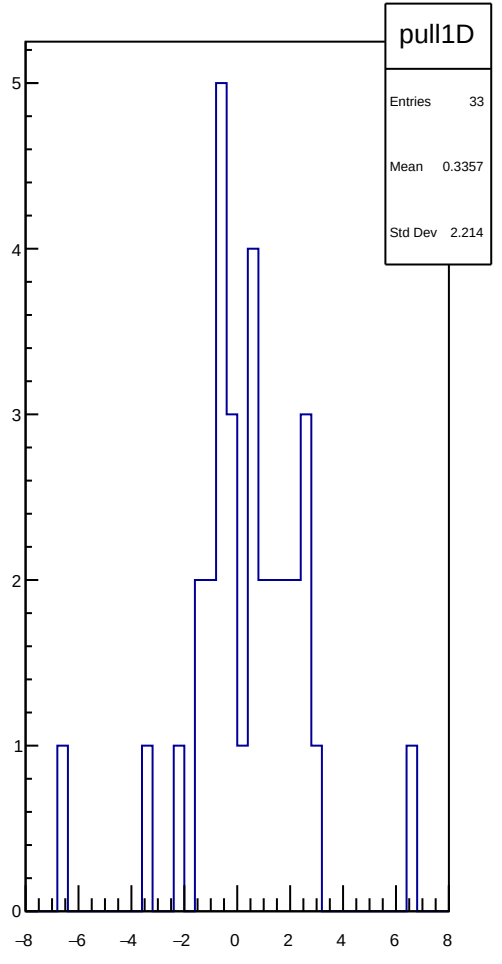

asym_bpm0l03WS_rms vs run
χ² / ndf 2.955e+04 / 32
p0 1449 ± 1.837
2200
2000
1800
1600
1400
1200
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

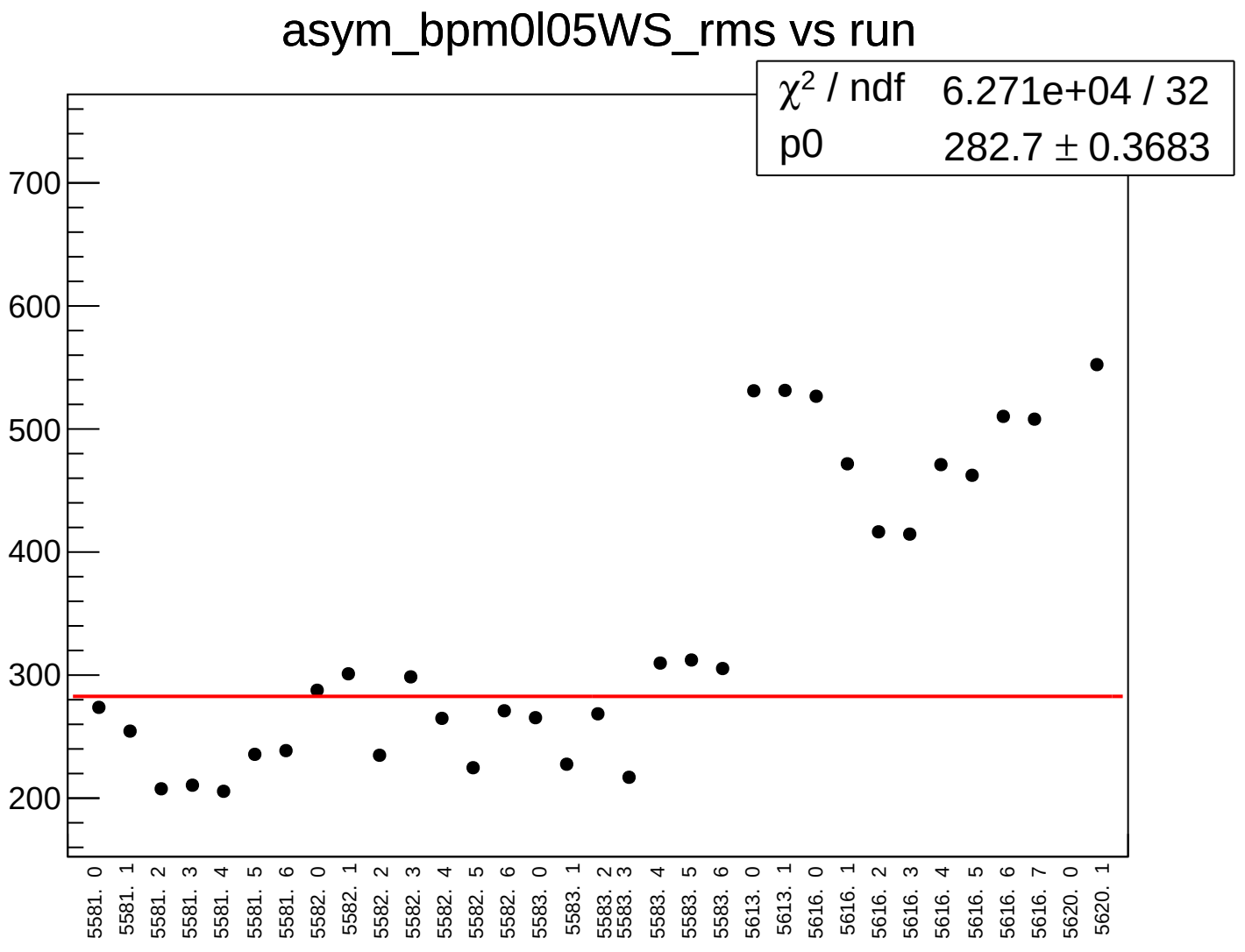

asym_bpm0l04WS_mean vs run
χ² / ndf 161.9 / 32
p0 −542.3 ± 530.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.72
Std Dev 0
6
4
2
0
−2
−4
−6

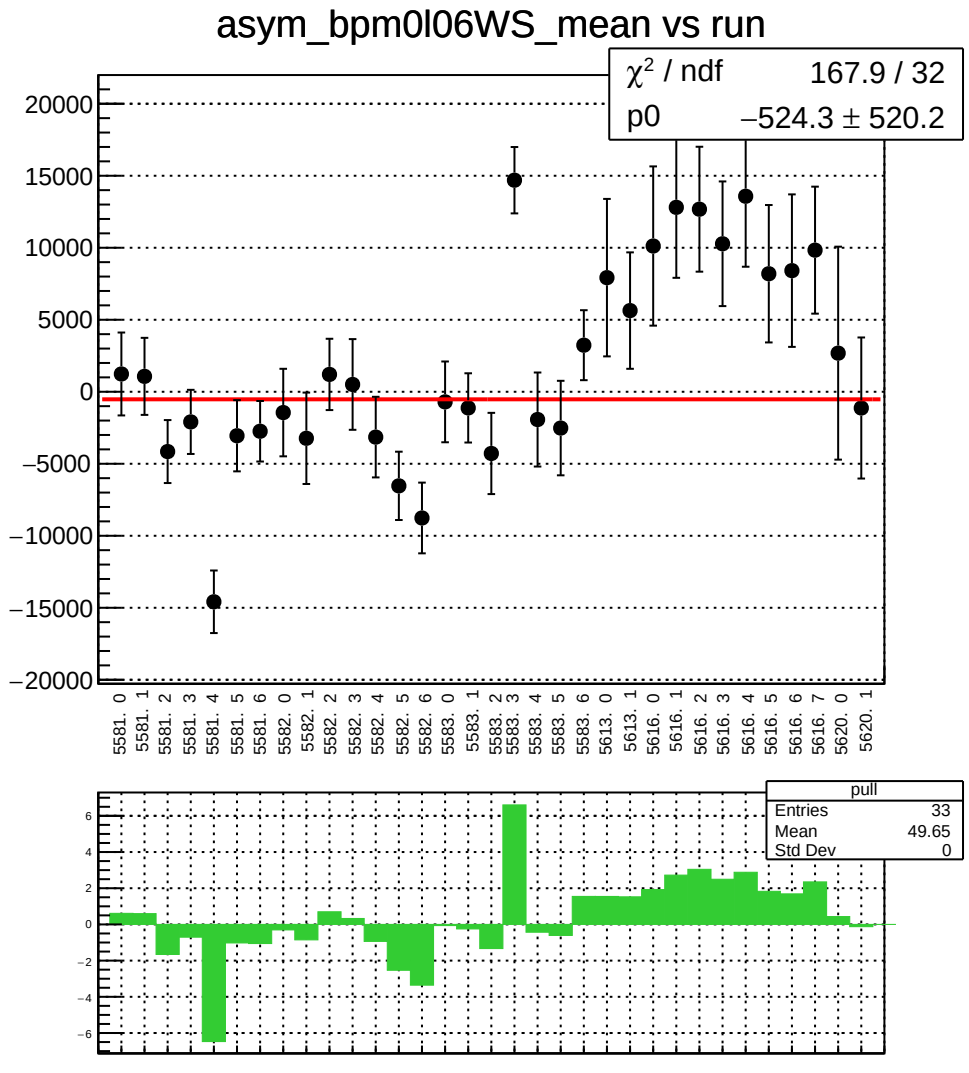

pull1D
Entries 33
Mean 0.3396
Std Dev 2.189
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

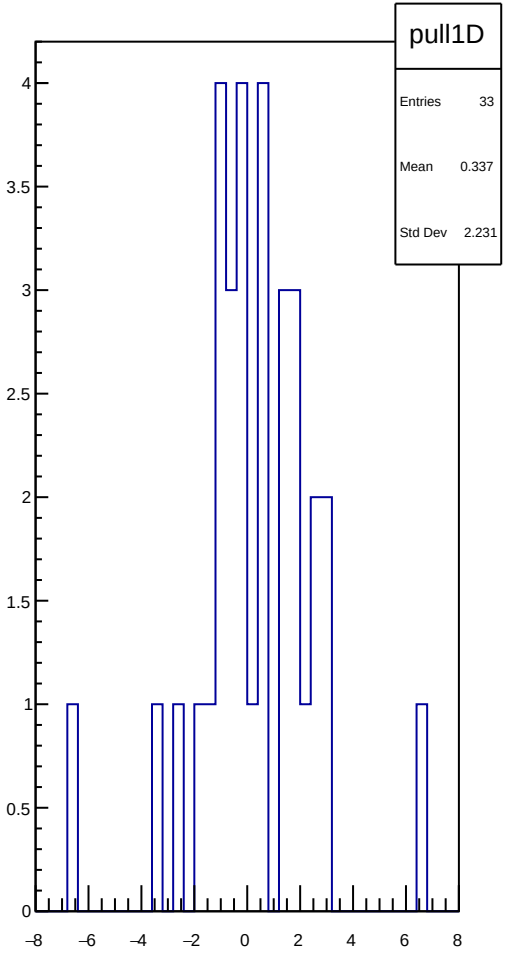

asym_bpm0l04WS_rms vs run
χ² / ndf 5.774e+04 / 32
p0 289.1 ± 0.3751
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

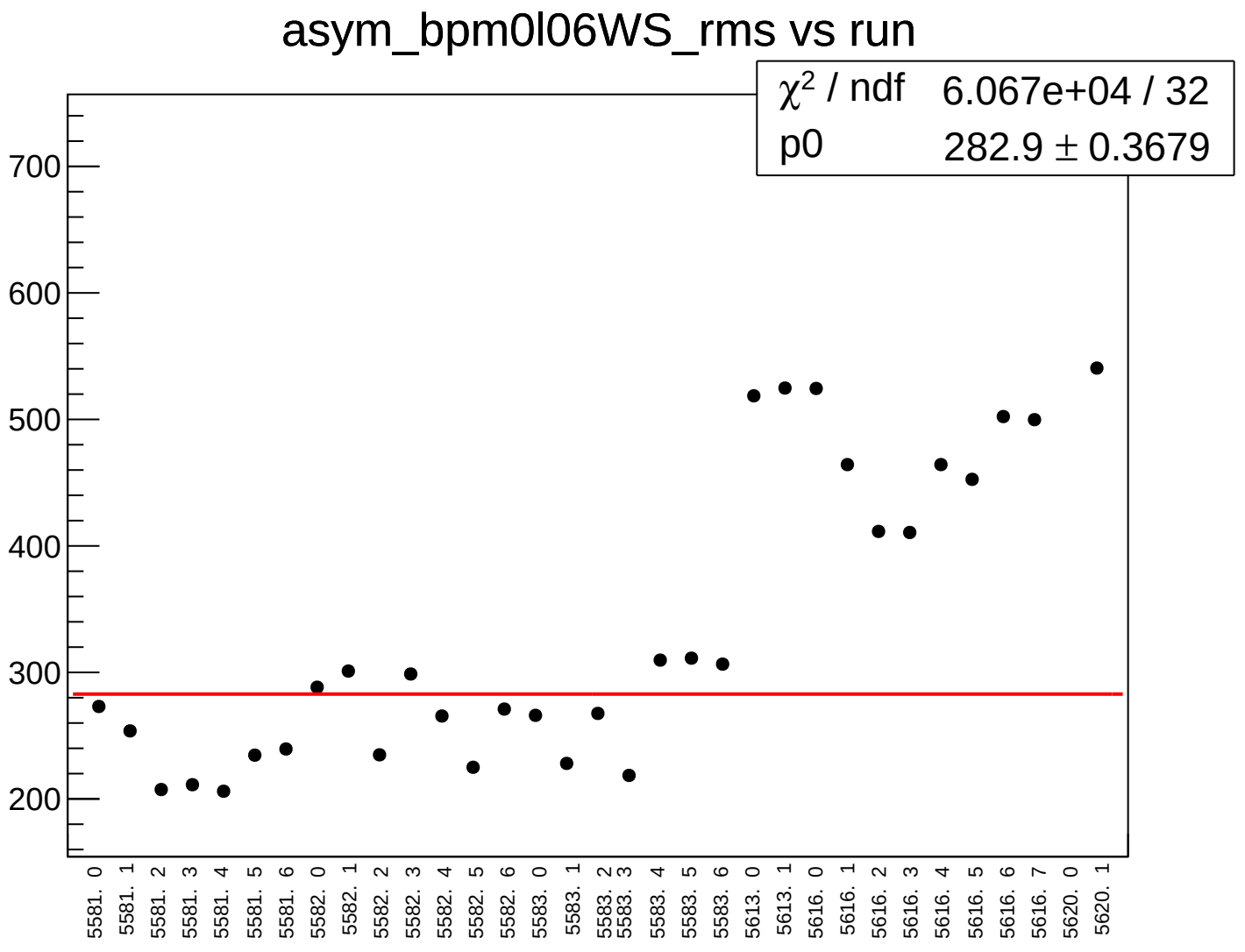

asym_bpm0l05WS_mean vs run
χ² / ndf 165.5 / 32
p0 −685.6 ± 520.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 48.32
Std Dev 0
6
4
2
0
−2
−4
−6

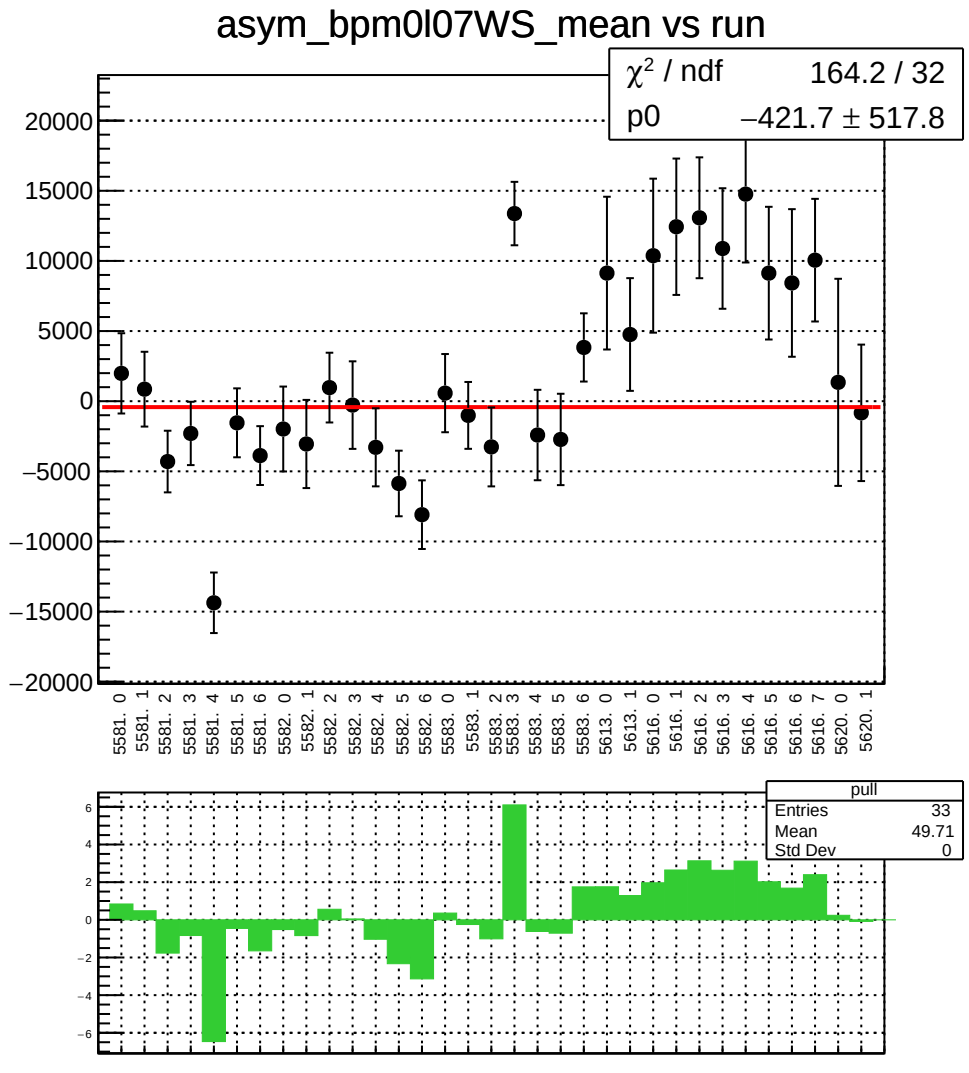

pull1D
Entries 33
Mean 0.3357
Std Dev 2.214
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

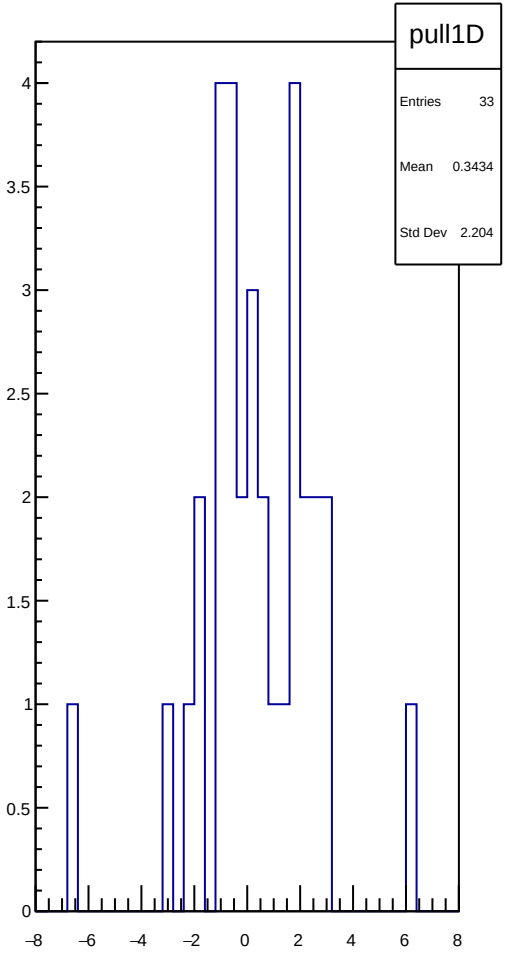

asym_bpm0l05WS_rms vs run
χ² / ndf 6.271e+04 / 32
p0 282.7 ± 0.3683
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

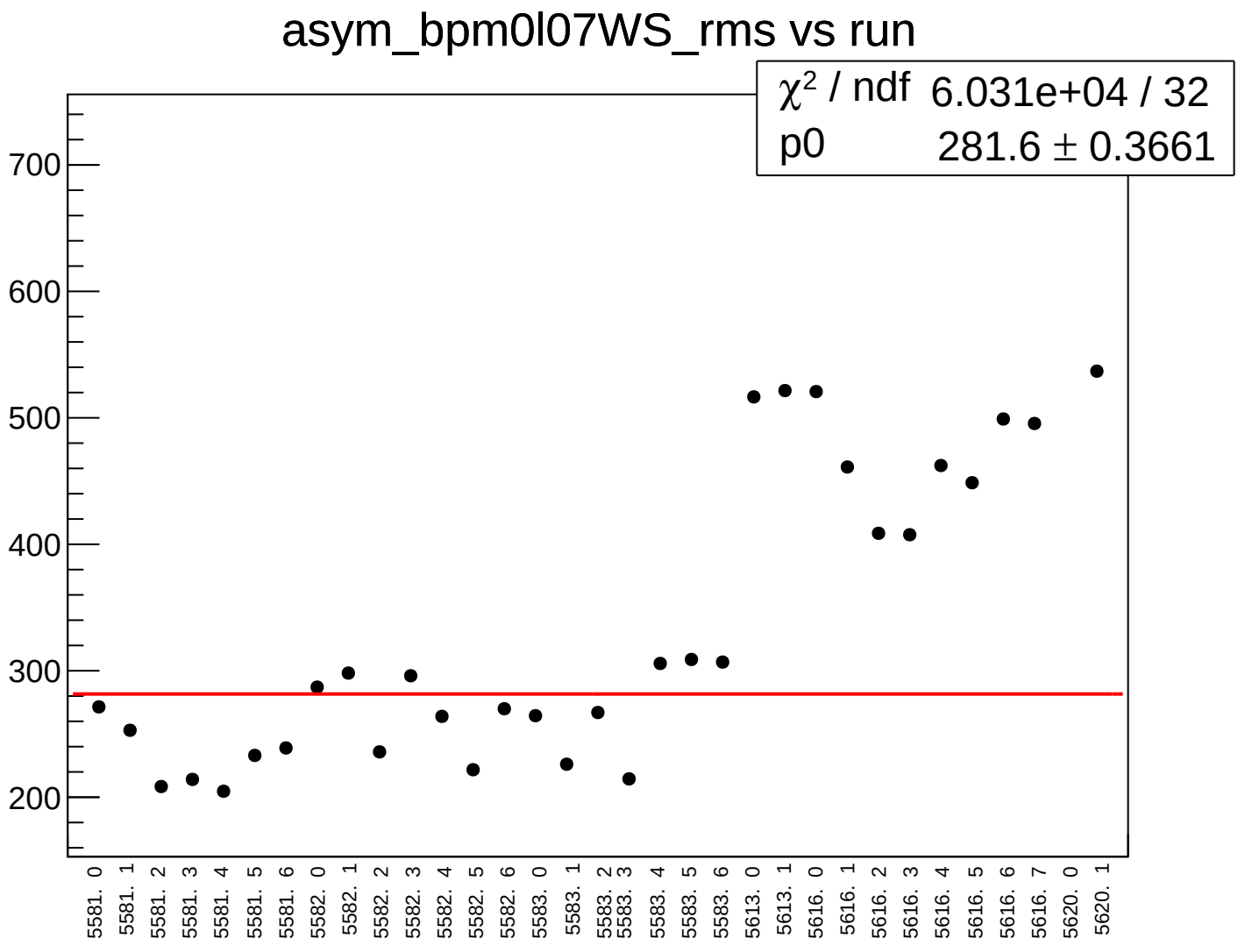

asym_bpm0l06WS_mean vs run
χ² / ndf 167.9 / 32
p0 −524.3 ± 520.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.65
Std Dev 0
6
4
2
0
−2
−4
−6

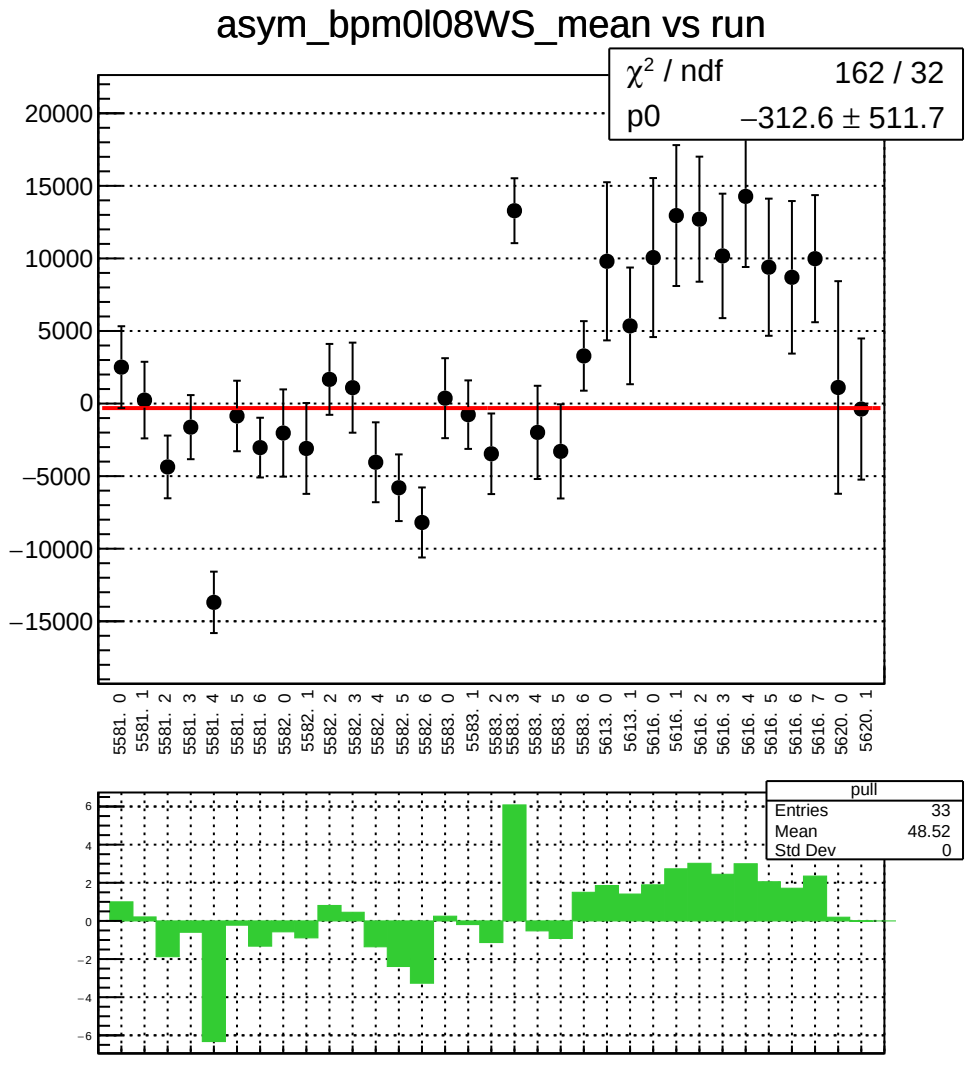

pull1D
Entries 33
Mean 0.337
Std Dev 2.231
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

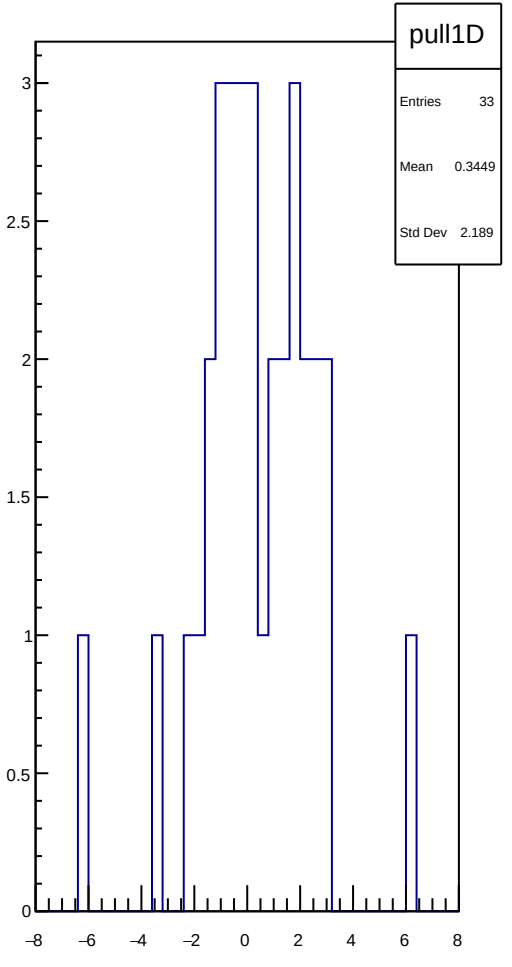

asym_bpm0l06WS_rms vs run
χ² / ndf 6.067e+04 / 32
p0 282.9 ± 0.3679
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

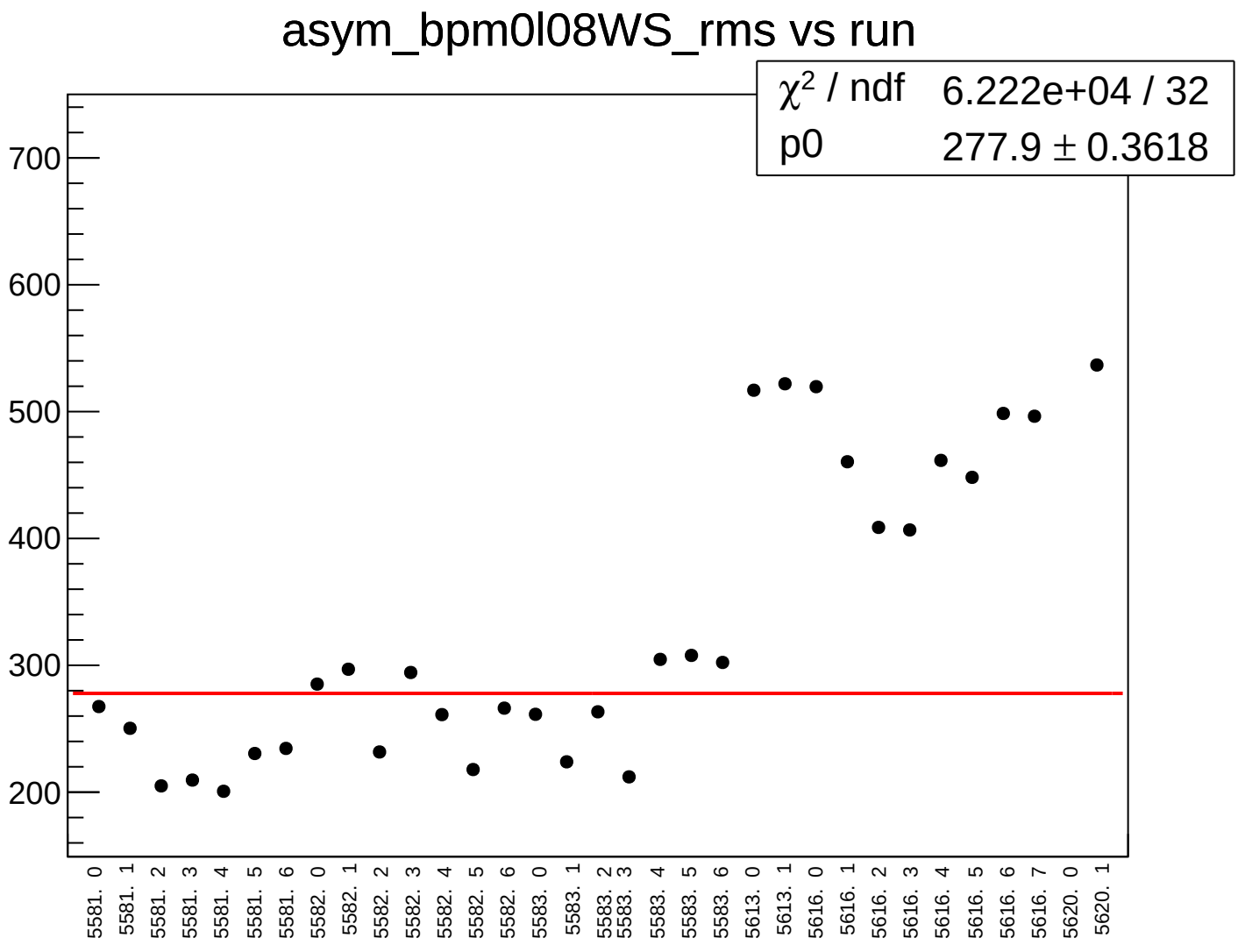

asym_bpm0l07WS_mean vs run
χ² / ndf 164.2 / 32
p0 −421.7 ± 517.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.71
Std Dev 0
6
4
2
0
−2
−4
−6

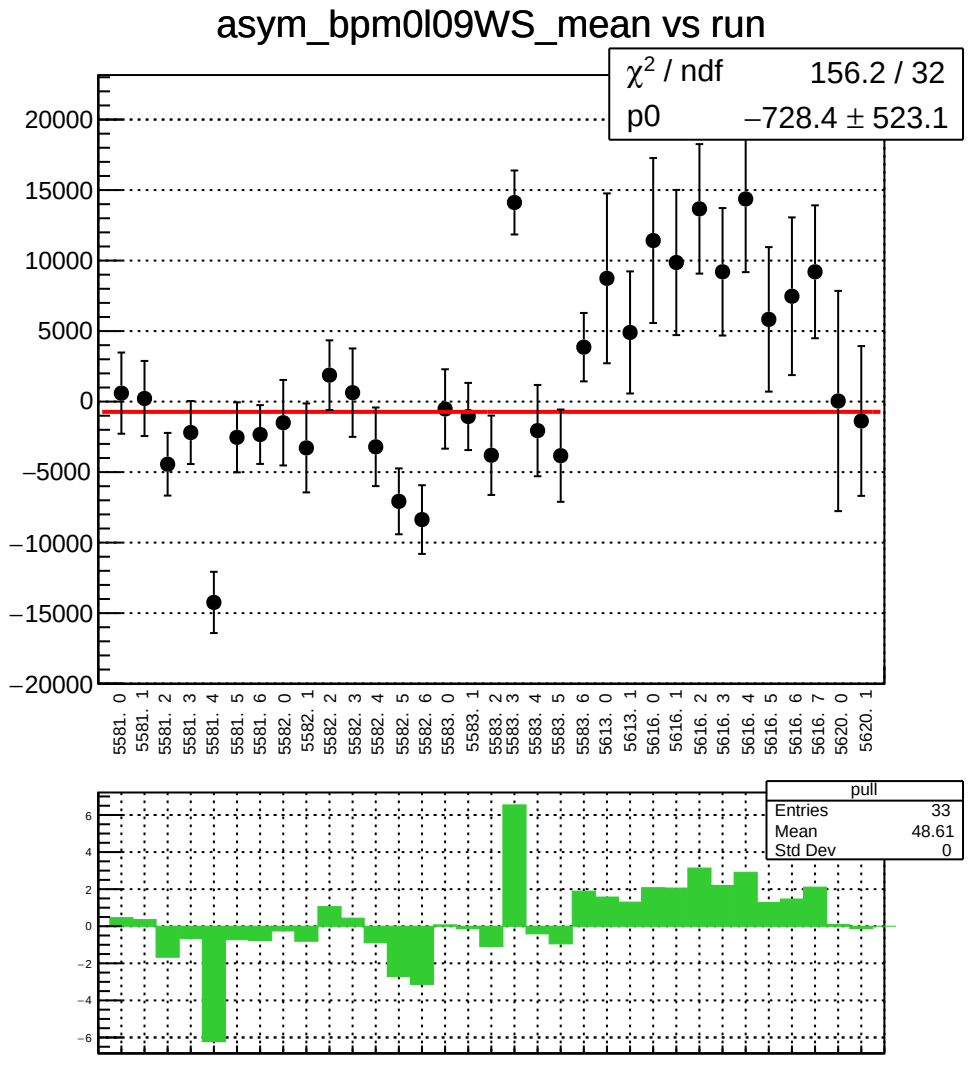

pull1D
Entries 33
Mean 0.3434
Std Dev 2.204
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

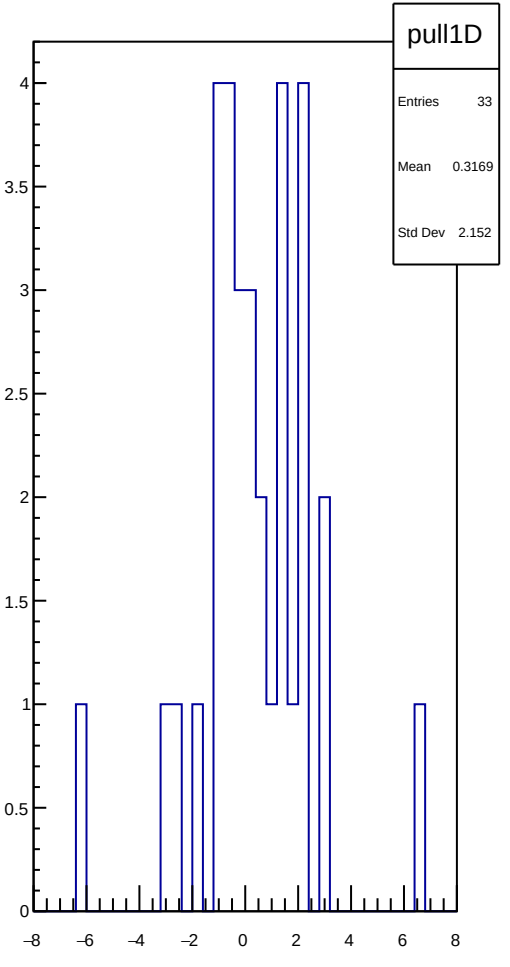

asym_bpm0l07WS_rms vs run
χ² / ndf 6.031e+04 / 32
p0 281.6 ± 0.3661
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

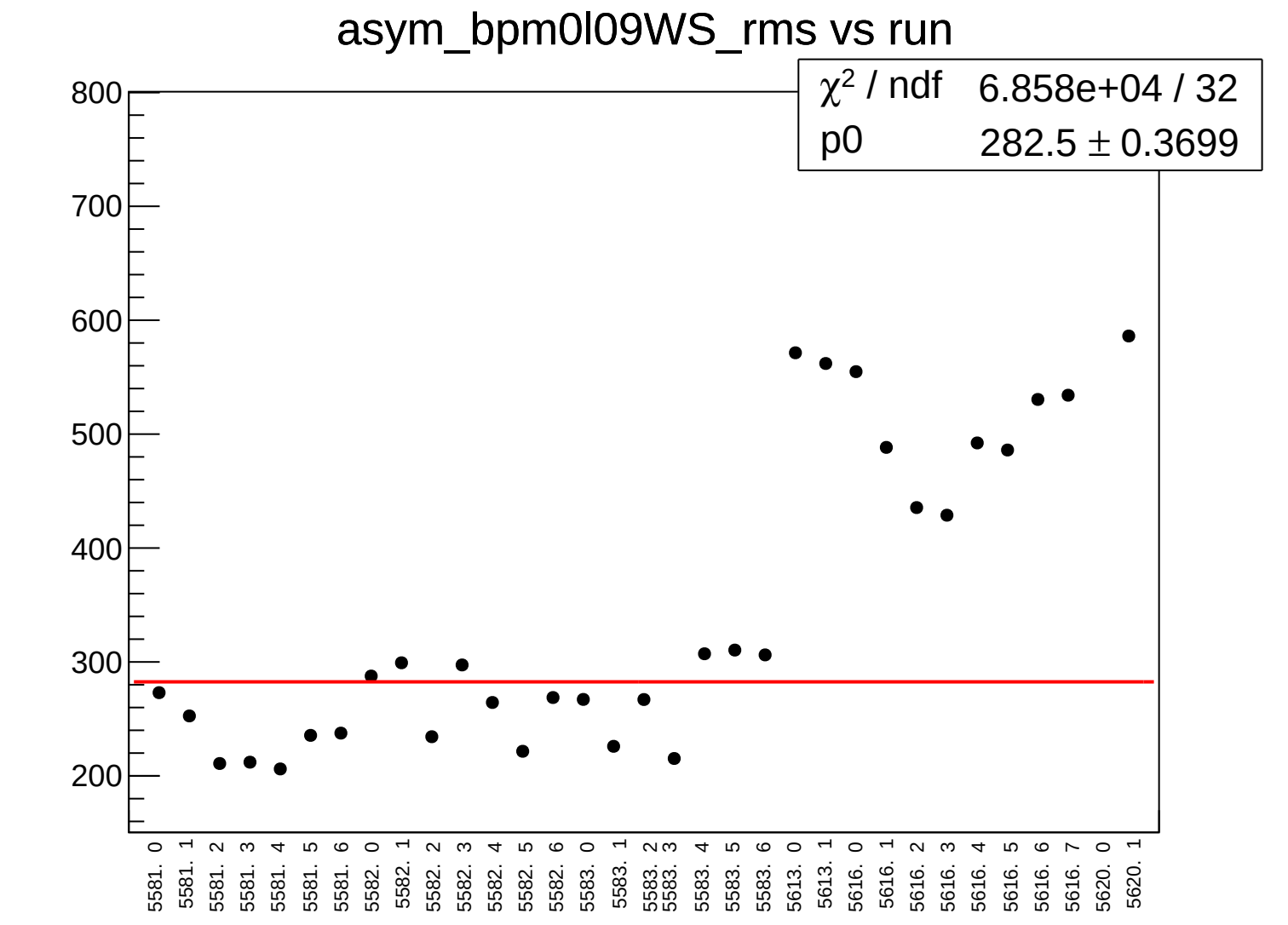

asym_bpm0l08WS_mean vs run
χ² / ndf 162 / 32
p0 −312.6 ± 511.7
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 48.52
Std Dev 0
6
4
2
0
−2
−4
−6

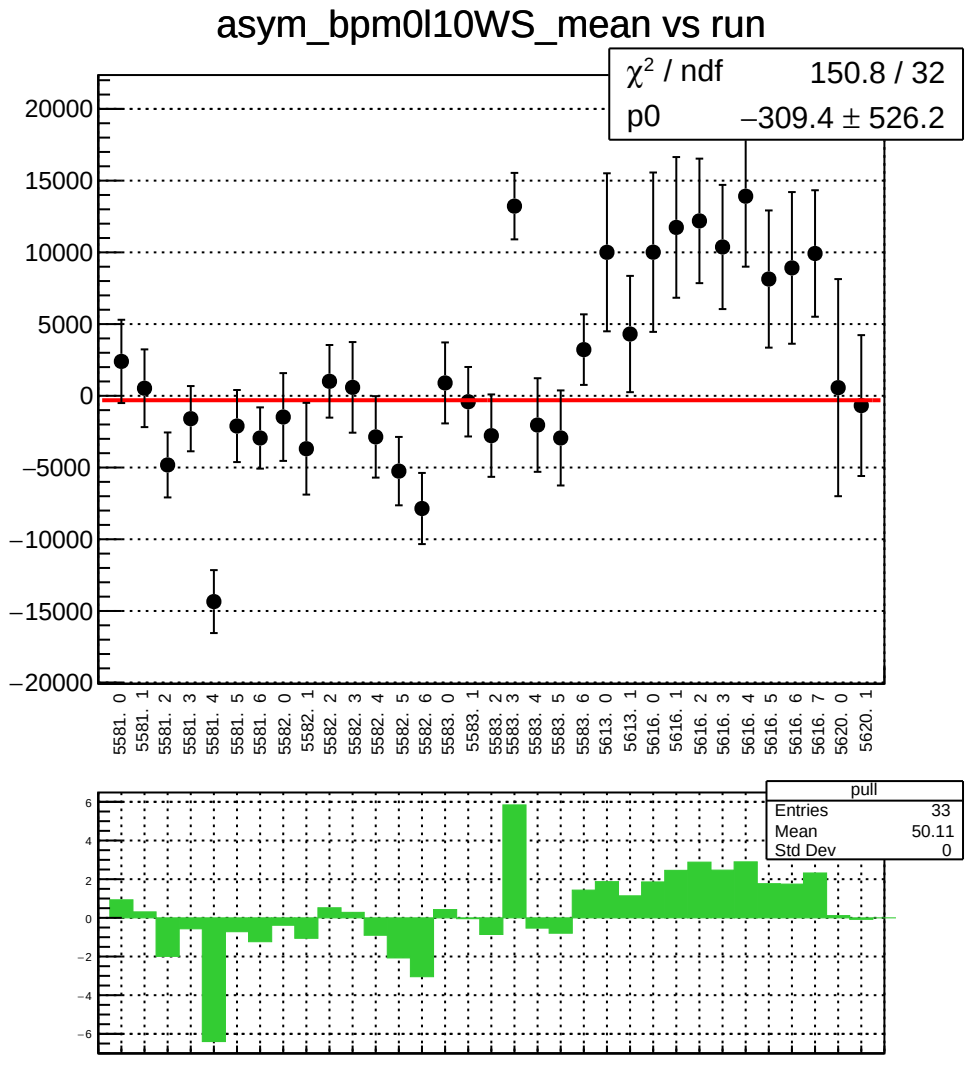

pull1D
Entries 33
Mean 0.3449
Std Dev 2.189
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

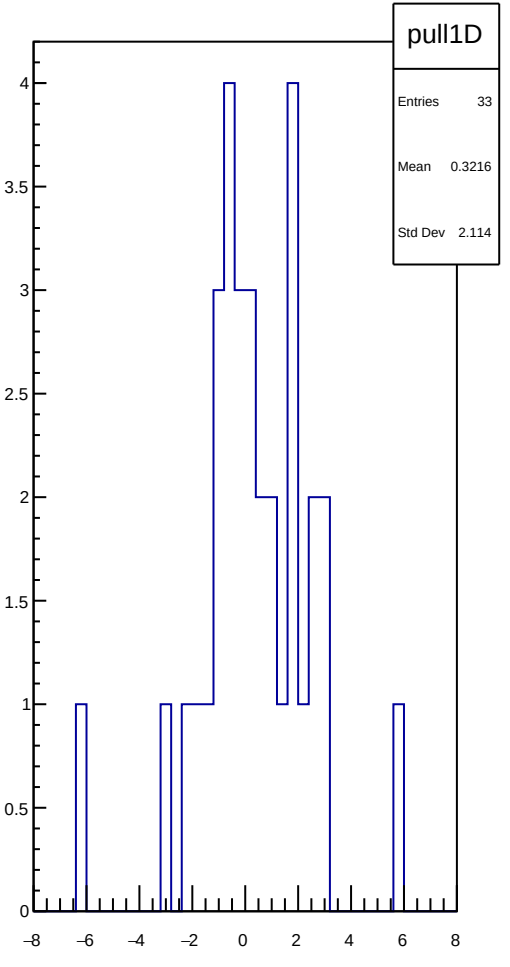

asym_bpm0l08WS_rms vs run
χ² / ndf 6.222e+04 / 32
p0 277.9 ± 0.3618
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

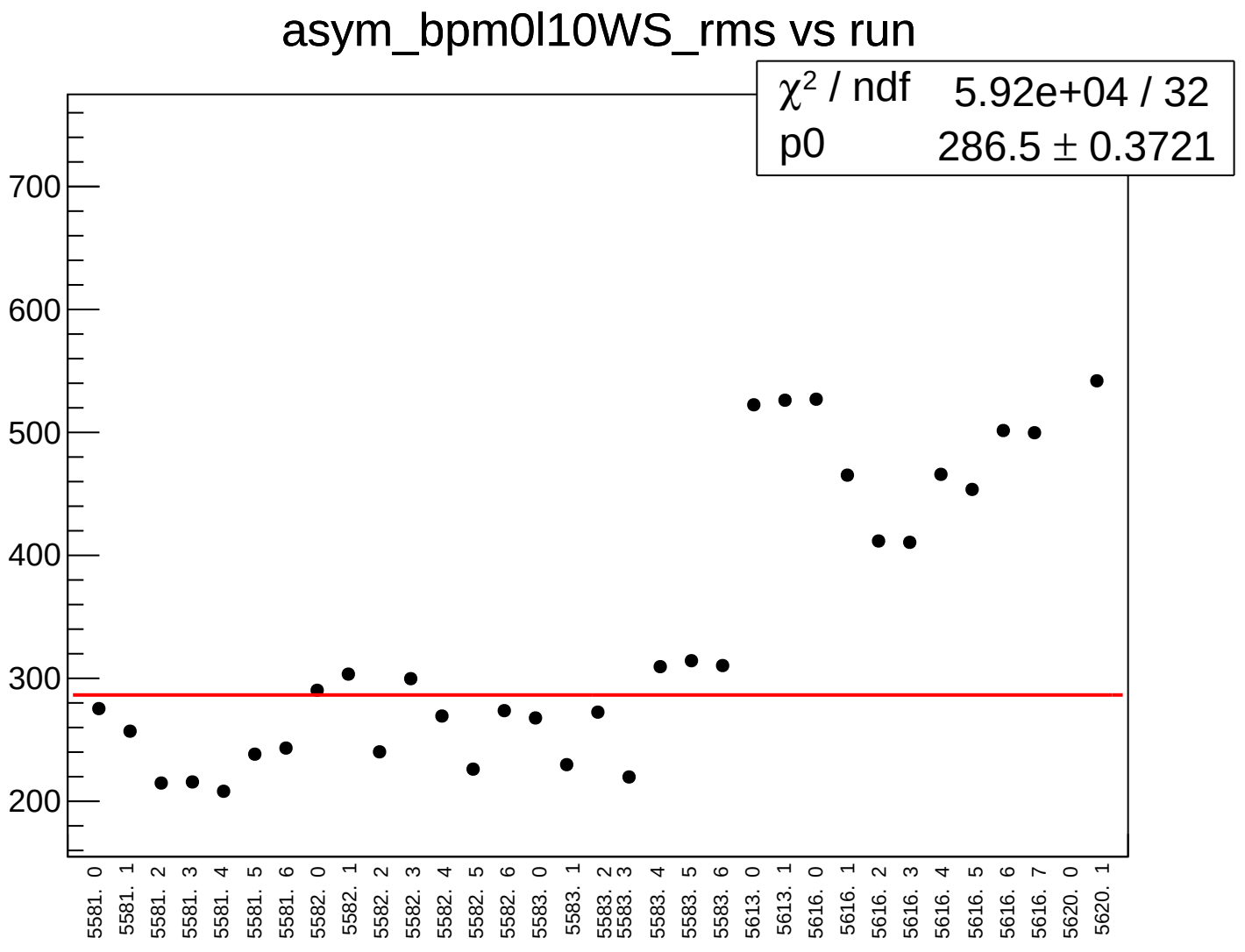

asym_bpm0l09WS_mean vs run
χ² / ndf 156.2 / 32
p0 −728.4 ± 523.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 48.61
Std Dev 0
6
4
2
0
−2
−4
−6

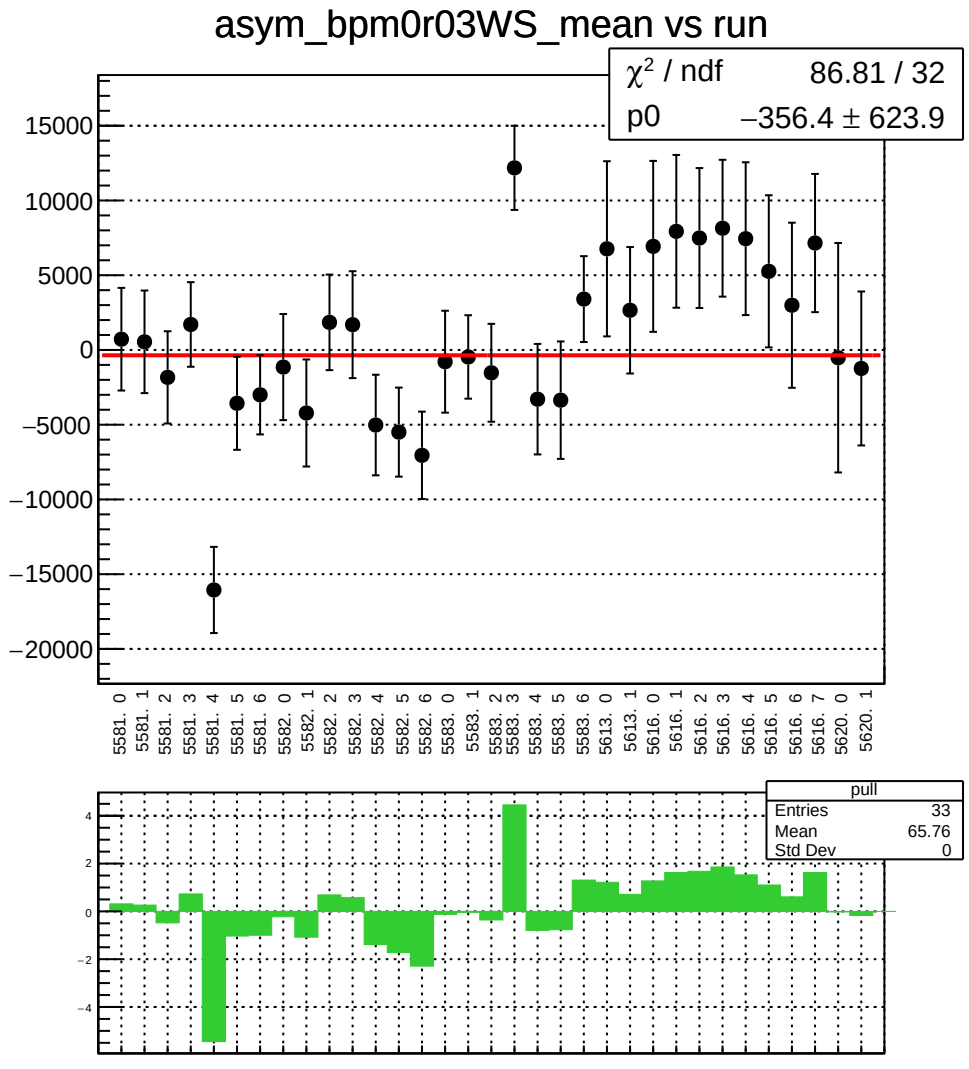

pull1D
Entries 33
Mean 0.3169
Std Dev 2.152
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

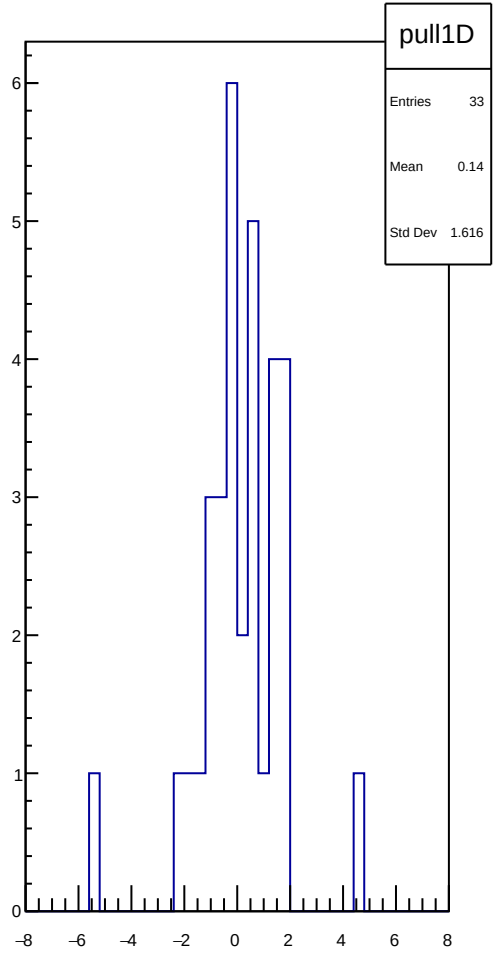

asym_bpm0l09WS_rms vs run
χ² / ndf 6.858e+04 / 32
p0 282.5 ± 0.3699
800
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

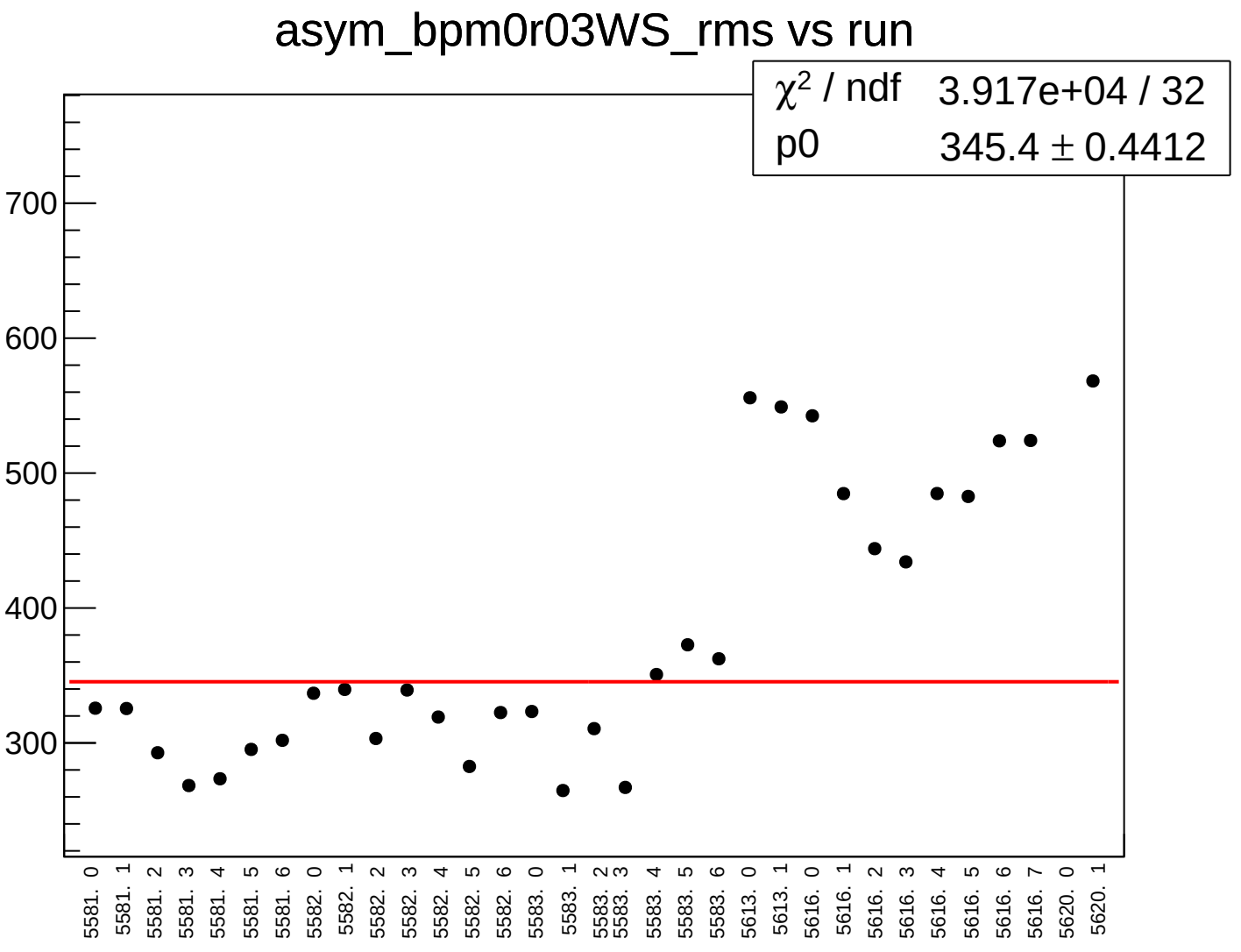

asym_bpm0l10WS_mean vs run
χ² / ndf 150.8 / 32
p0 −309.4 ± 526.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 50.11
Std Dev 0
6
4
2
0
−2
−4
−6

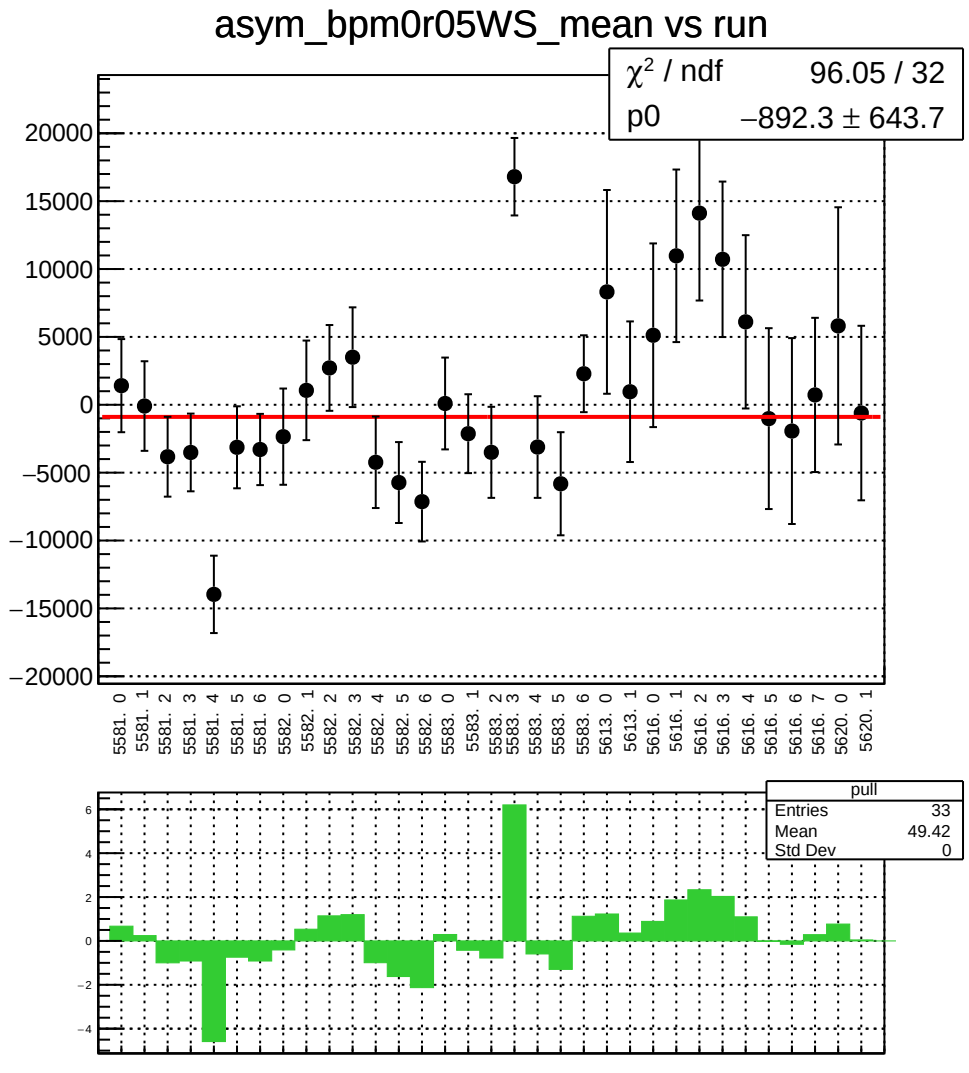

pull1D
Entries 33
Mean 0.3216
Std Dev 2.114
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

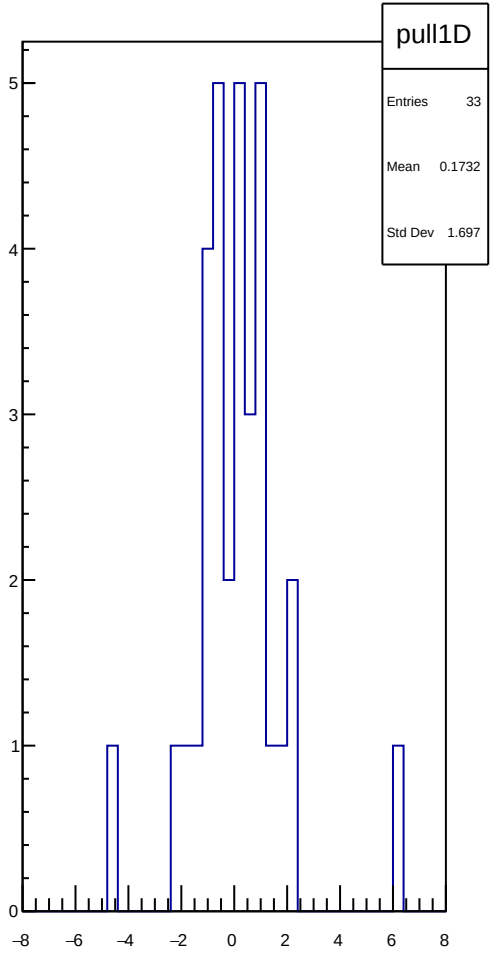

asym_bpm0l10WS_rms vs run
χ² / ndf 5.92e+04 / 32
p0 286.5 ± 0.3721
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

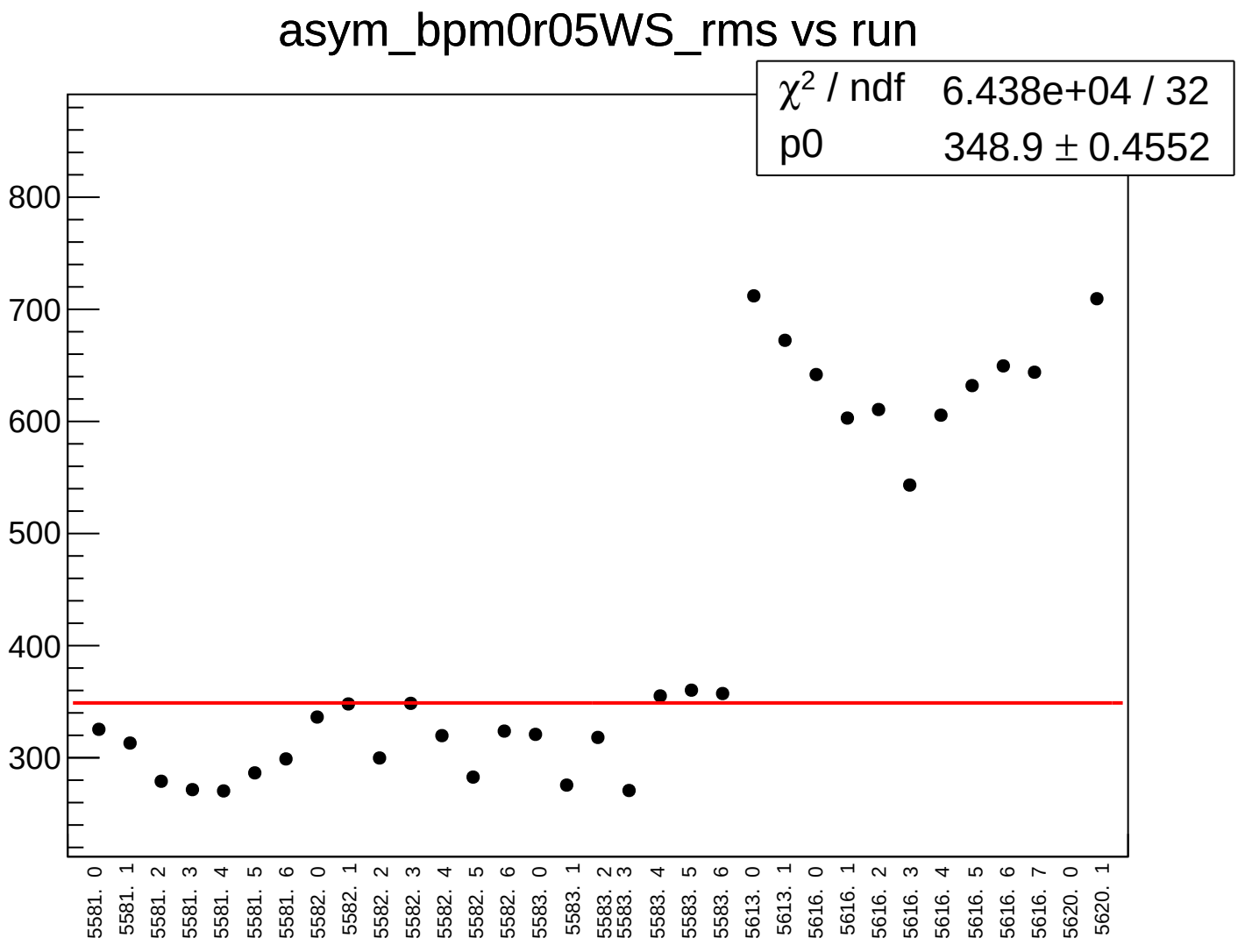

asym_bpm0r03WS_mean vs run
χ² / ndf 86.81 / 32
p0 −356.4 ± 623.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 65.76
Std Dev 0
4
2
0
−2
−4

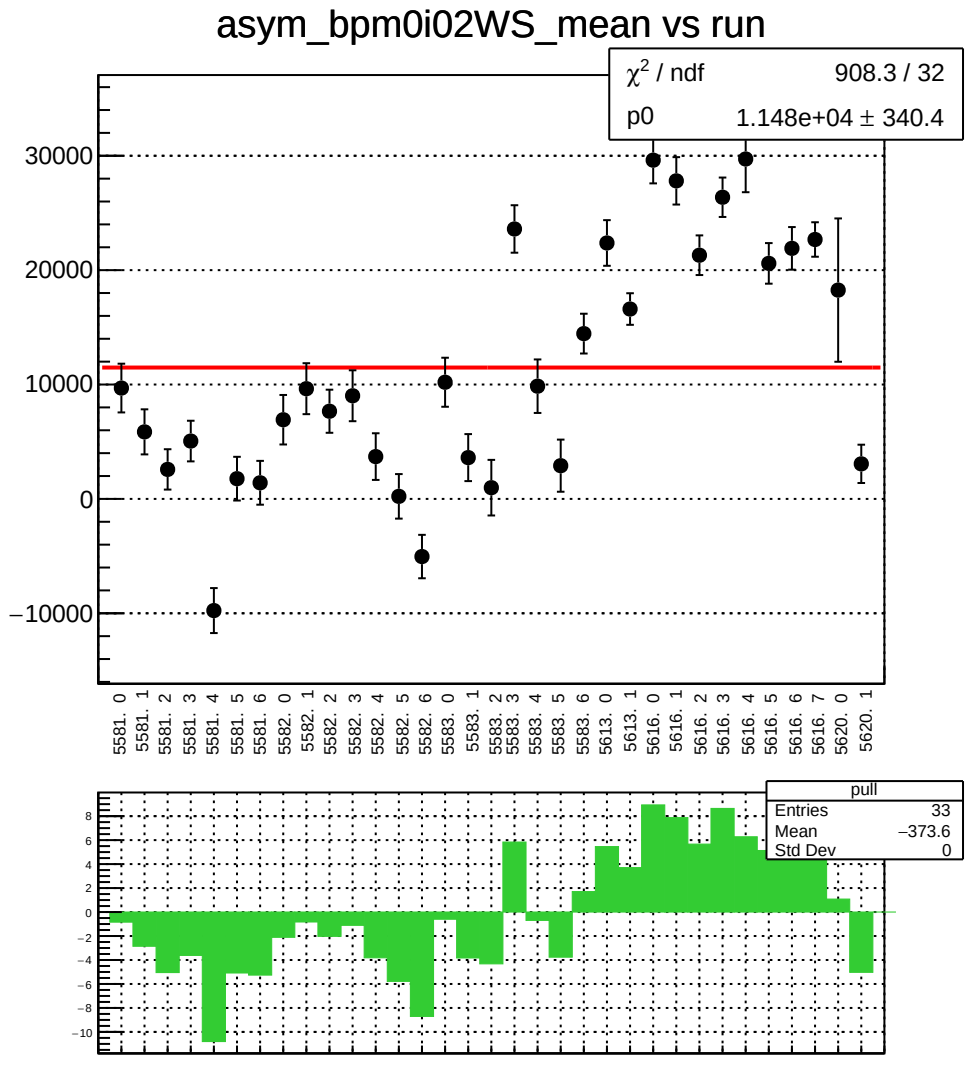

pull1D
Entries 33
Mean 0.14
Std Dev 1.616
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

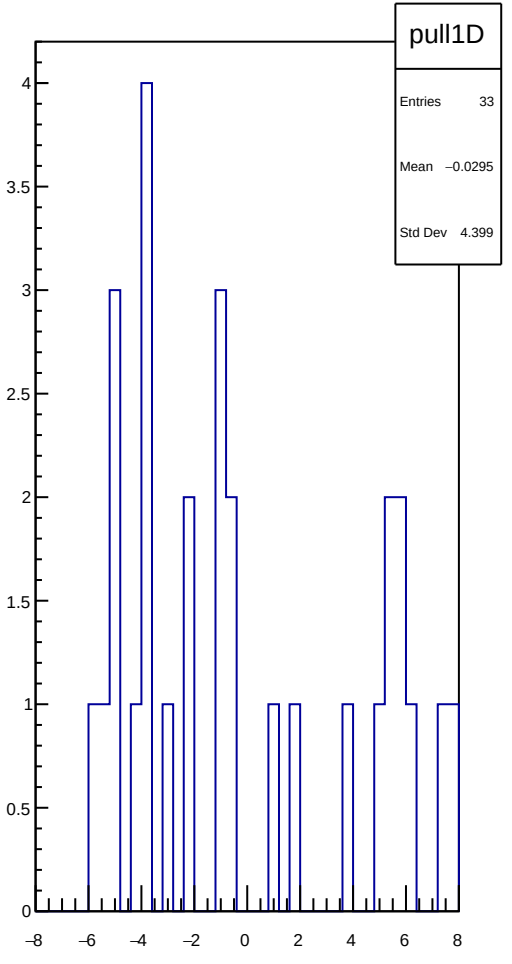

asym_bpm0r03WS_rms vs run
χ² / ndf 3.917e+04 / 32
p0 345.4 ± 0.4412
700
600
500
400
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

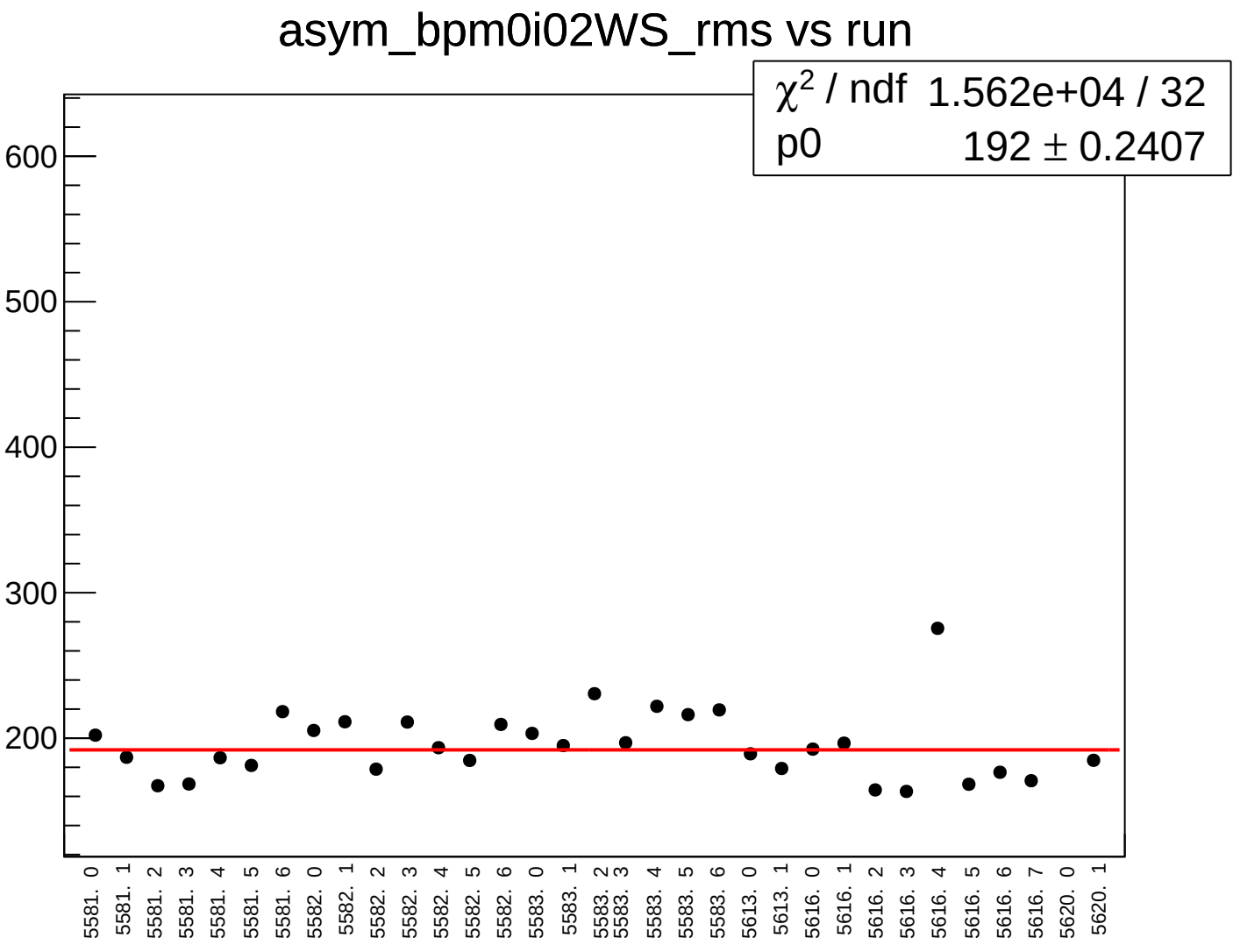

asym_bpm0r05WS_mean vs run
χ² / ndf 96.05 / 32
p0 −892.3 ± 643.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.42
Std Dev 0
6
4
2
0
−2
−4

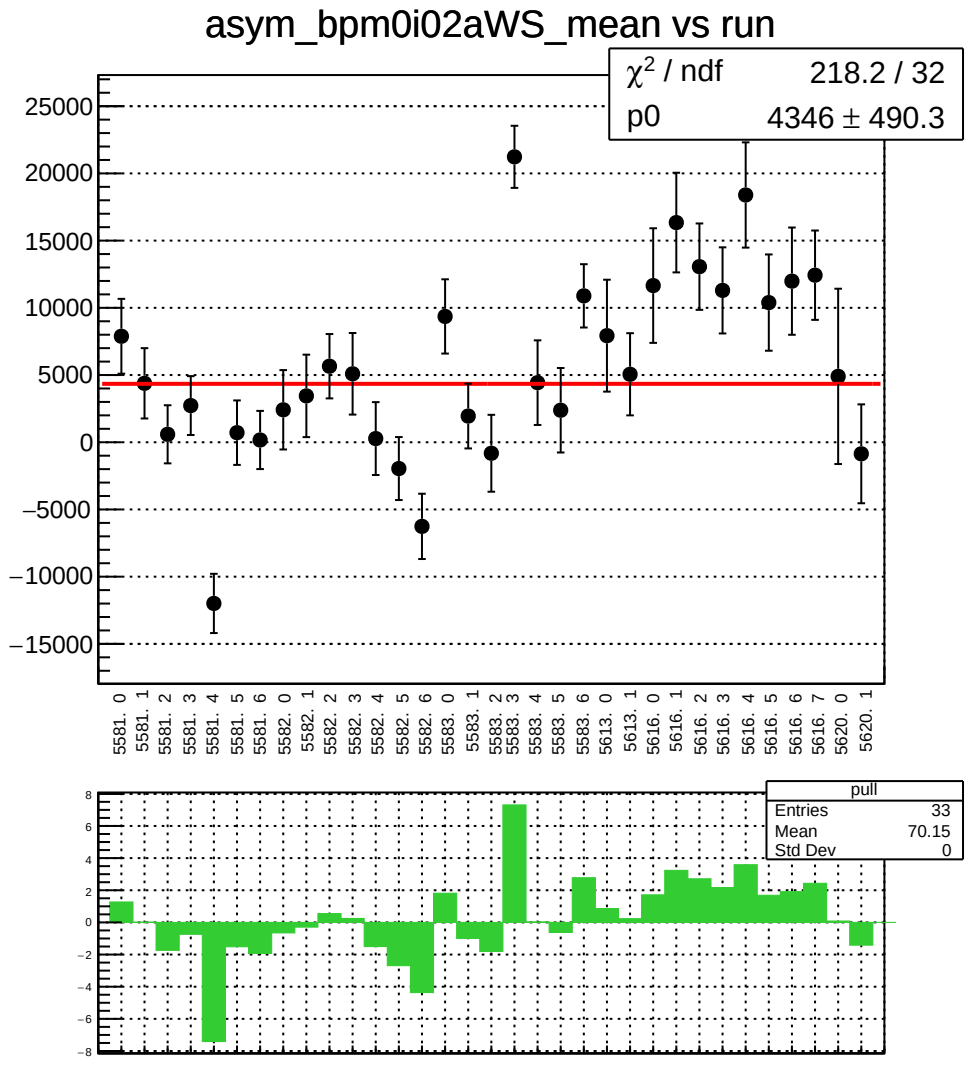

pull1D
Entries 33
Mean 0.1732
Std Dev 1.697
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

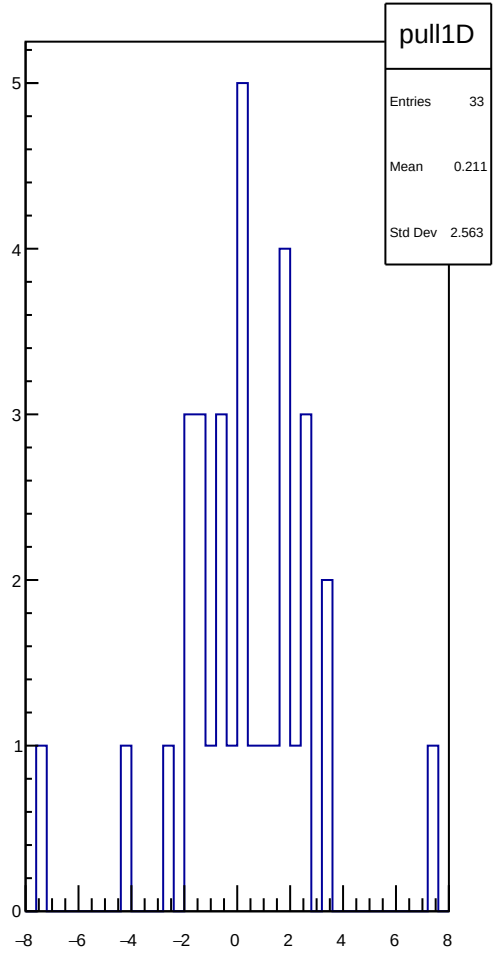

asym_bpm0r05WS_rms vs run
χ² / ndf 6.438e+04 / 32
p0 348.9 ± 0.4552
800
700
600
500
400
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

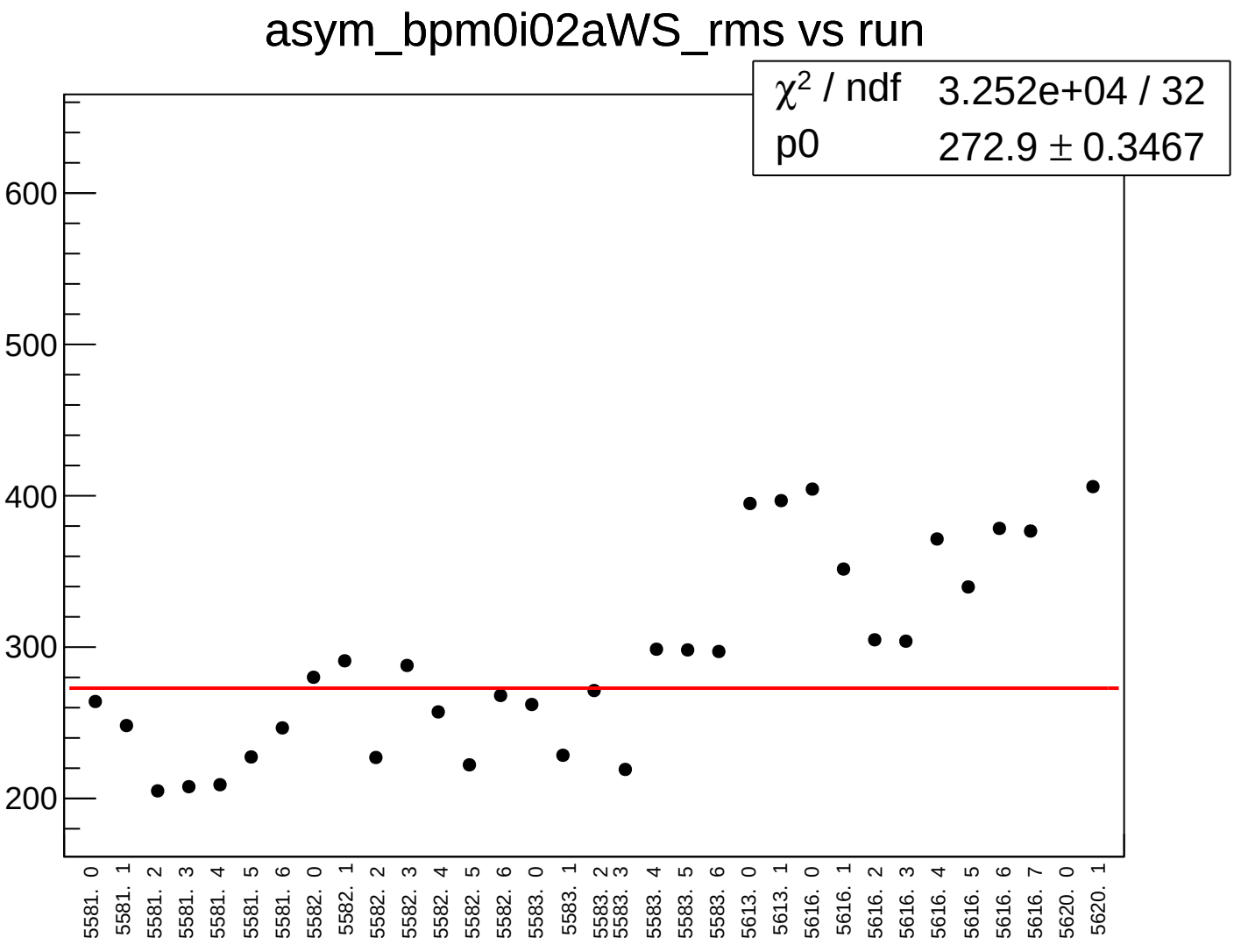

asym_bpm0i02WS_mean vs run
χ² / ndf 908.3 / 32
p0 1.148e+04 ± 340.4
30000
20000
10000
0
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −373.6
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10

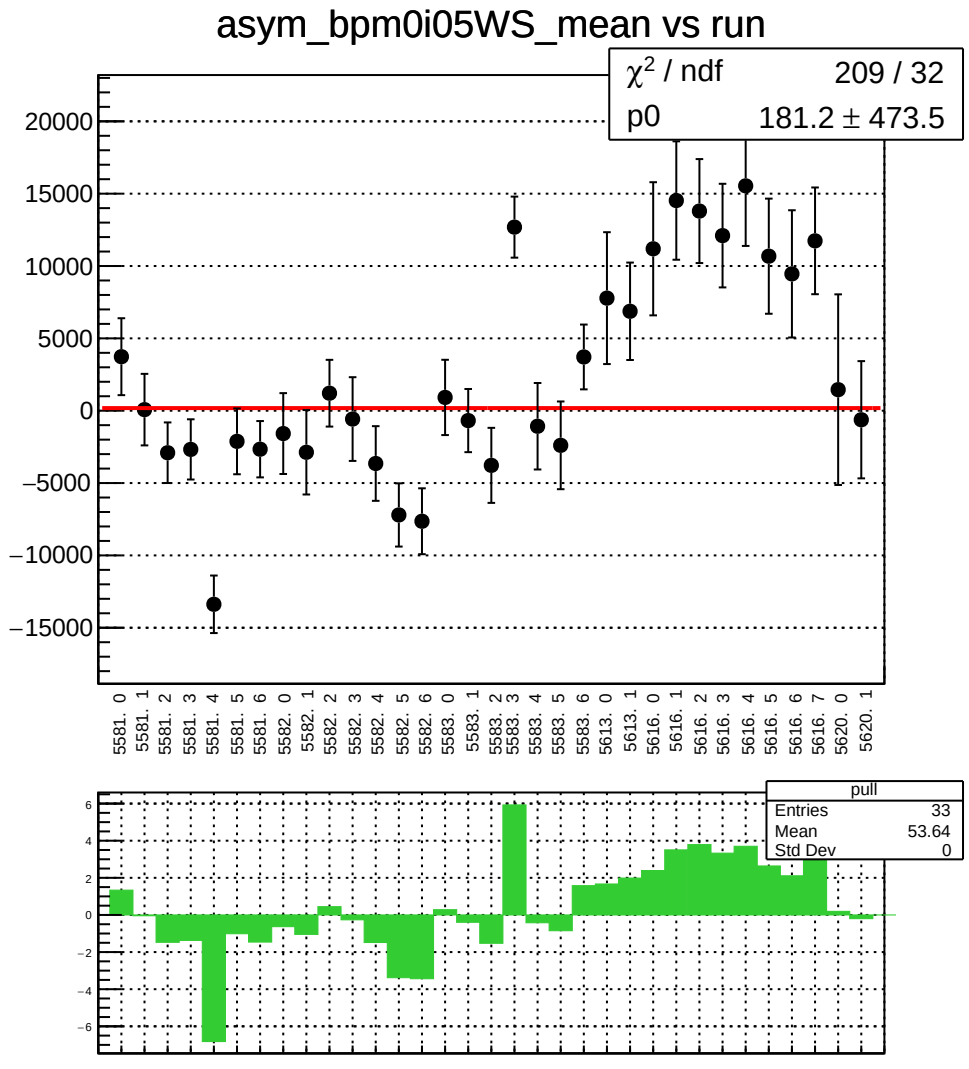

pull1D
Entries 33
Mean −0.0295
Std Dev 4.399
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

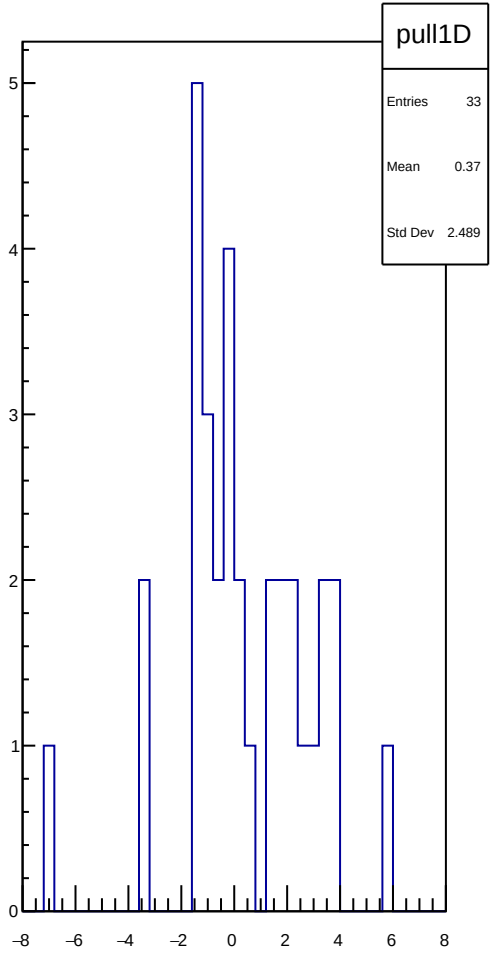

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1.562e+04 / 32
p0 192 ± 0.2407
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

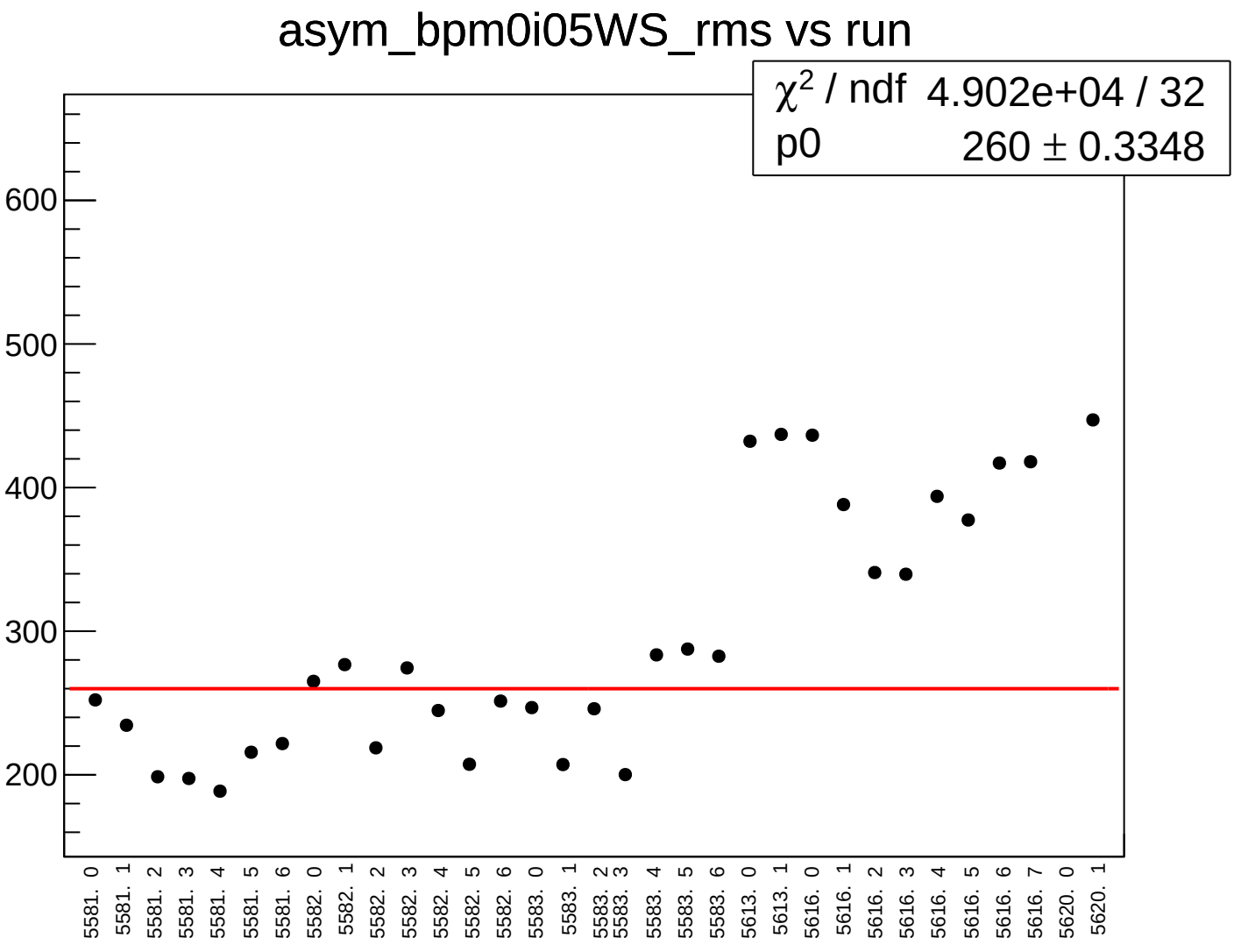

asym_bpm0i02aWS_mean vs run
χ² / ndf 218.2 / 32
p0 4346 ± 490.3
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 70.15
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

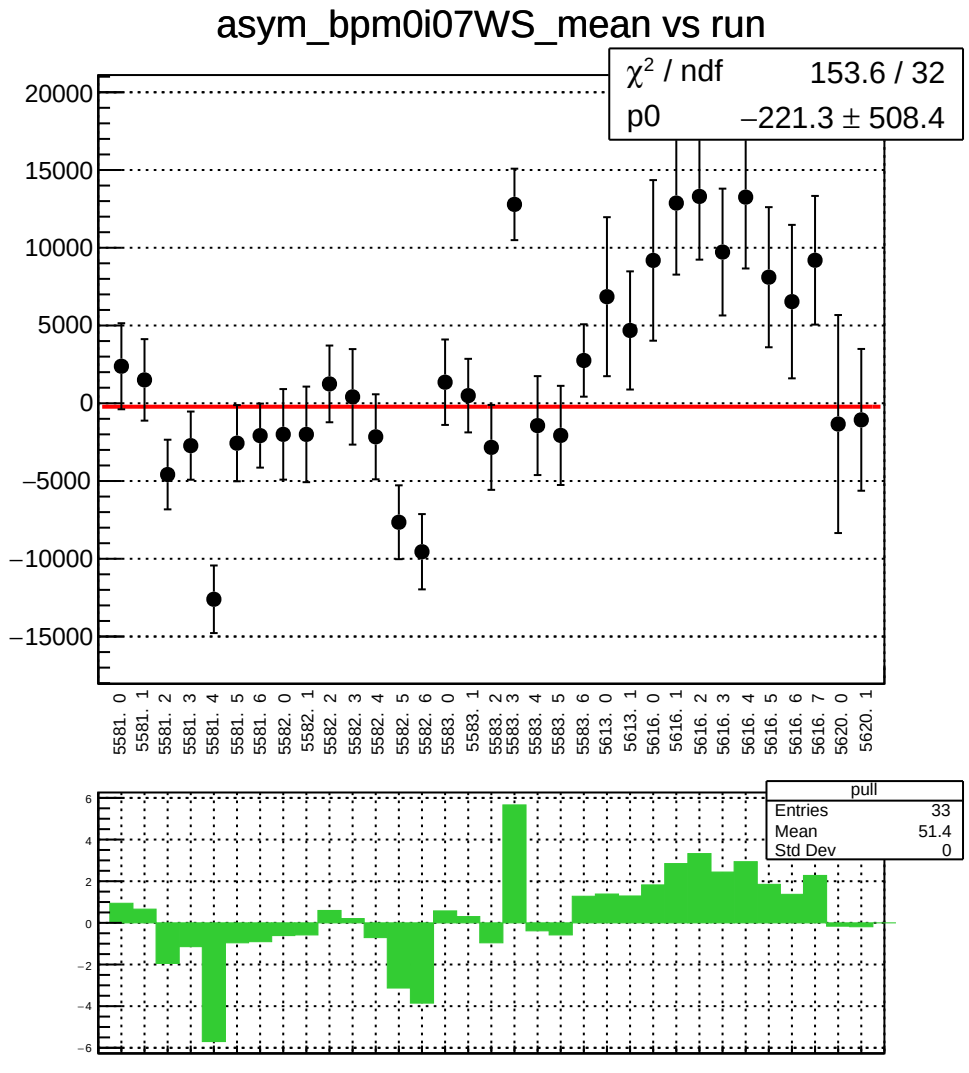

pull1D
Entries 33
Mean 0.211
Std Dev 2.563
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

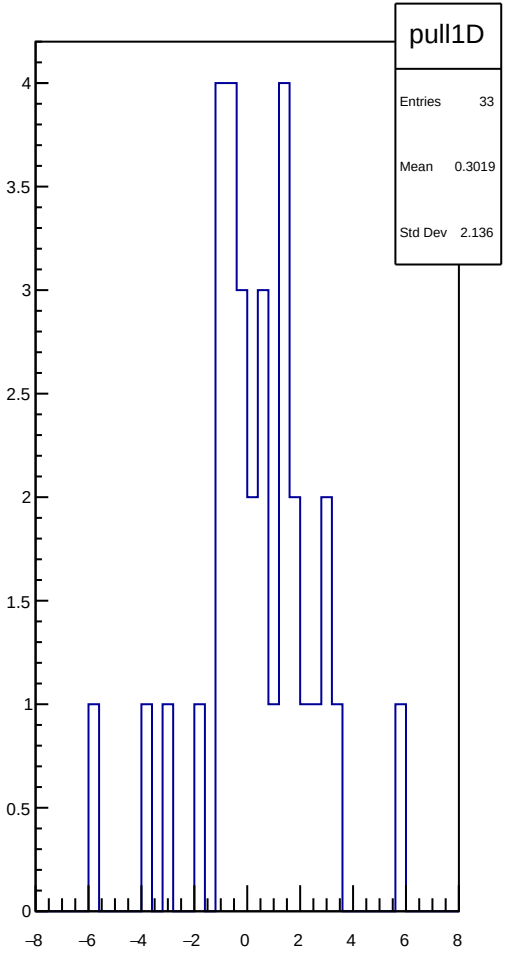

asym_bpm0i02aWS_rms vs run
χ² / ndf 3.252e+04 / 32
p0 272.9 ± 0.3467
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

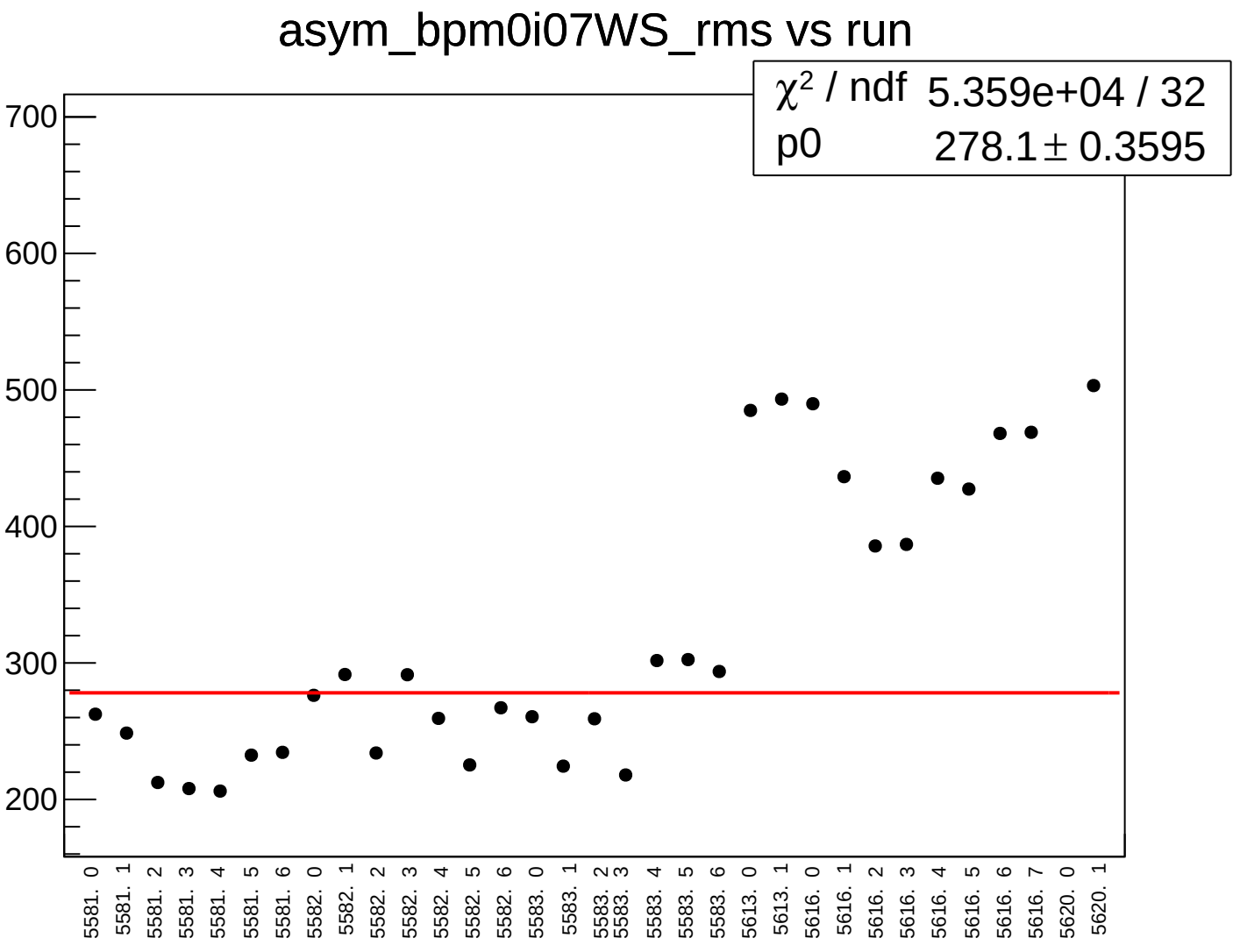

asym_bpm0i05WS_mean vs run
χ² / ndf 209 / 32
p0 181.2 ± 473.5
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 53.64
Std Dev 0
6
4
2
0
−2
−4
−6

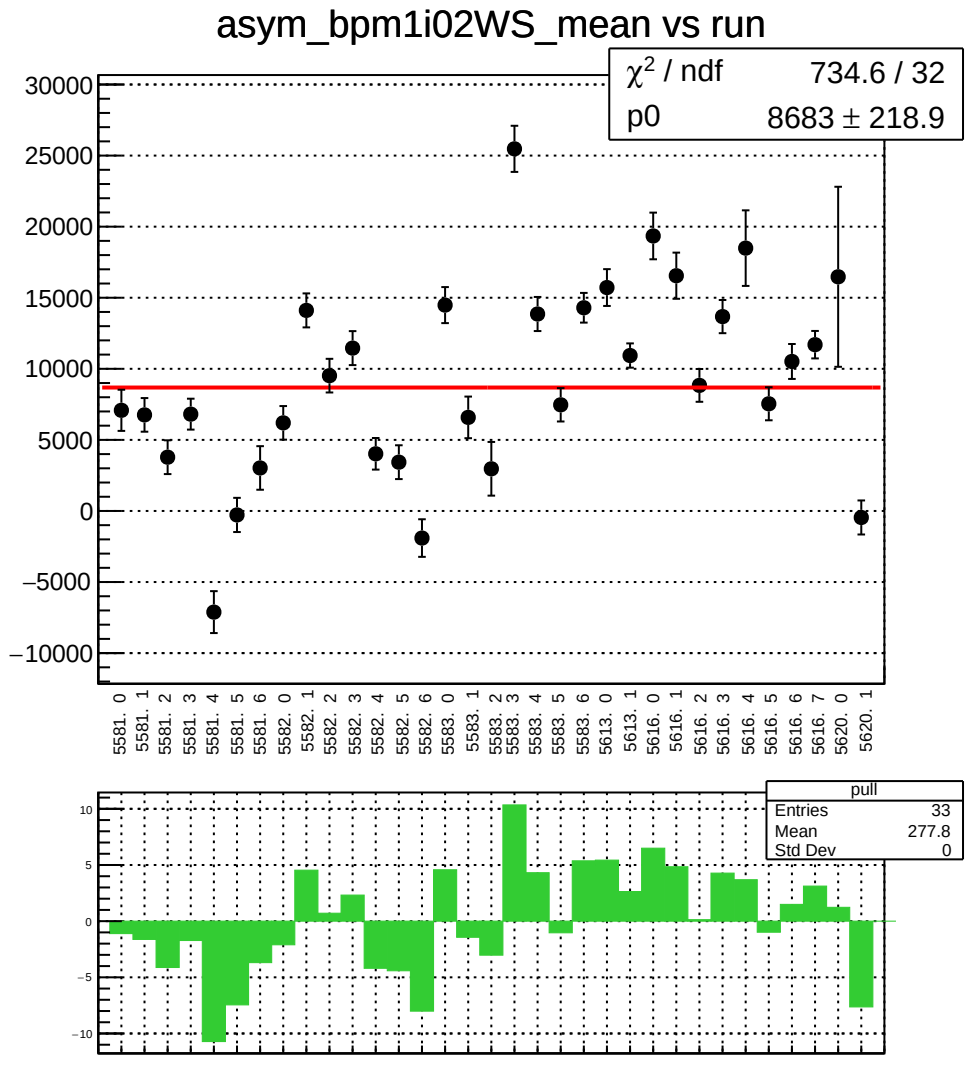

pull1D
Entries 33
Mean 0.37
Std Dev 2.489
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

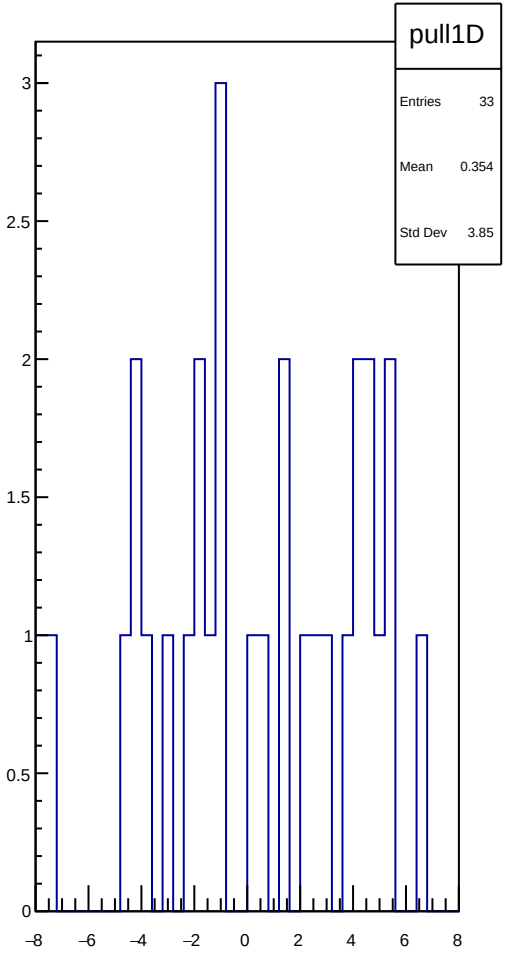

asym_bpm0i05WS_rms vs run
χ² / ndf 4.902e+04 / 32
p0 260 ± 0.3348
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

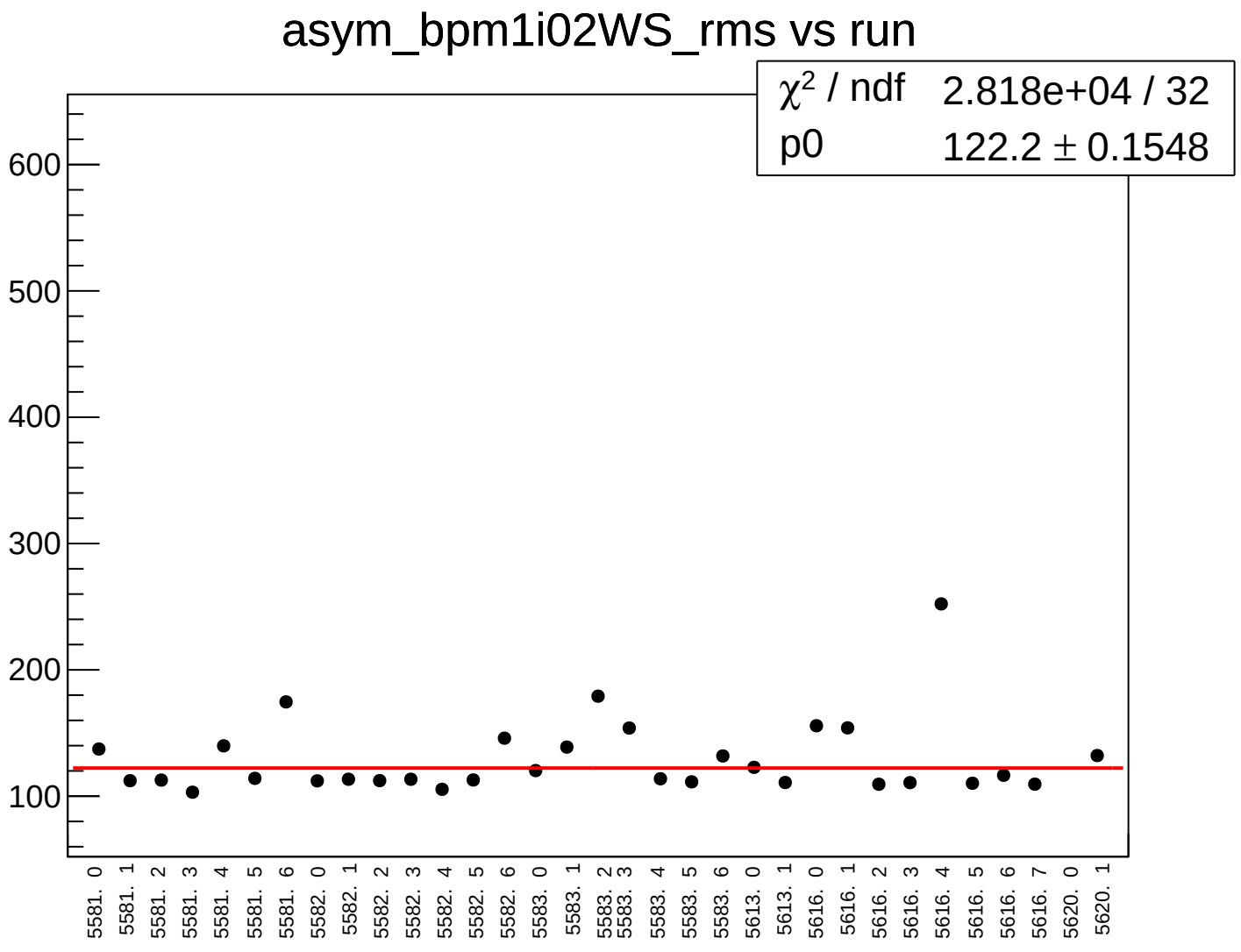

asym_bpm0i07WS_mean vs run
χ² / ndf 153.6 / 32
p0 −221.3 ± 508.4
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 51.4
Std Dev 0
6
4
2
0
−2
−4
−6

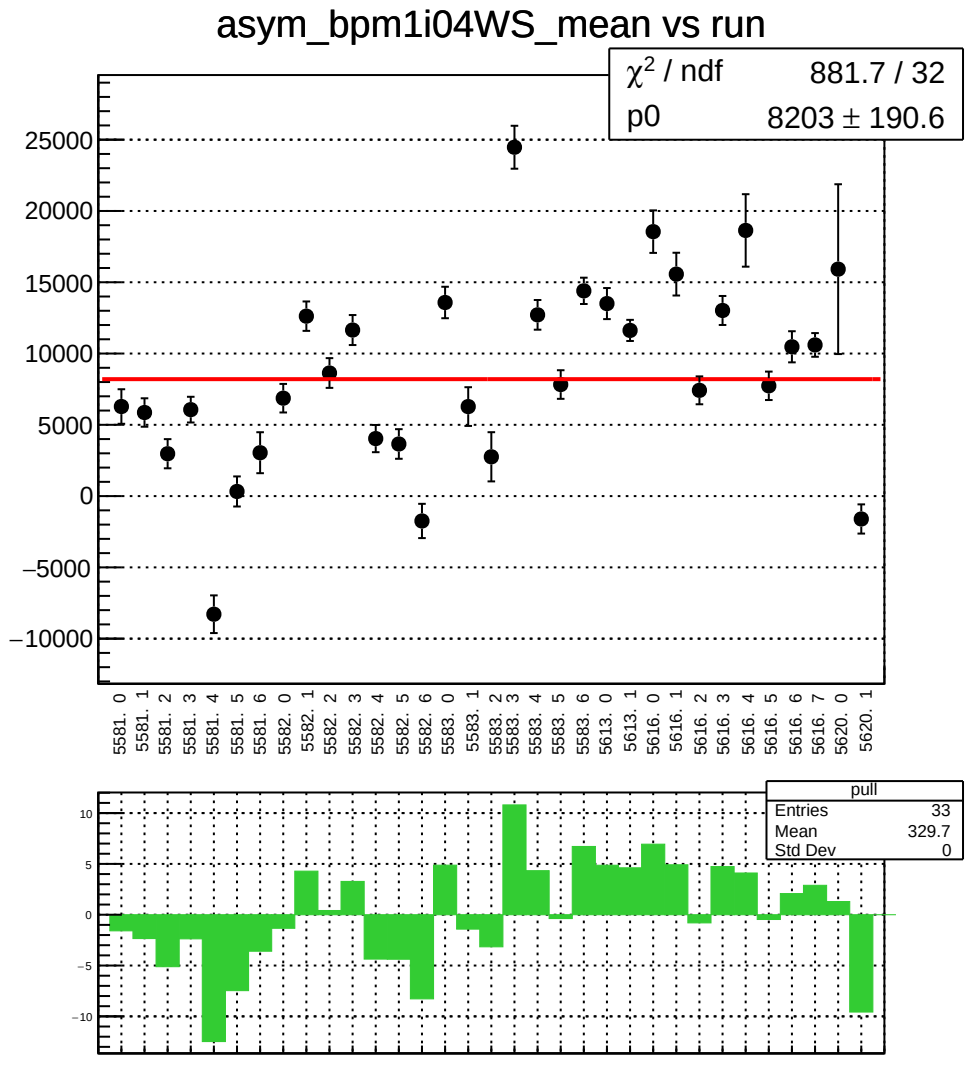

pull1D
Entries 33
Mean 0.3019
Std Dev 2.136
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

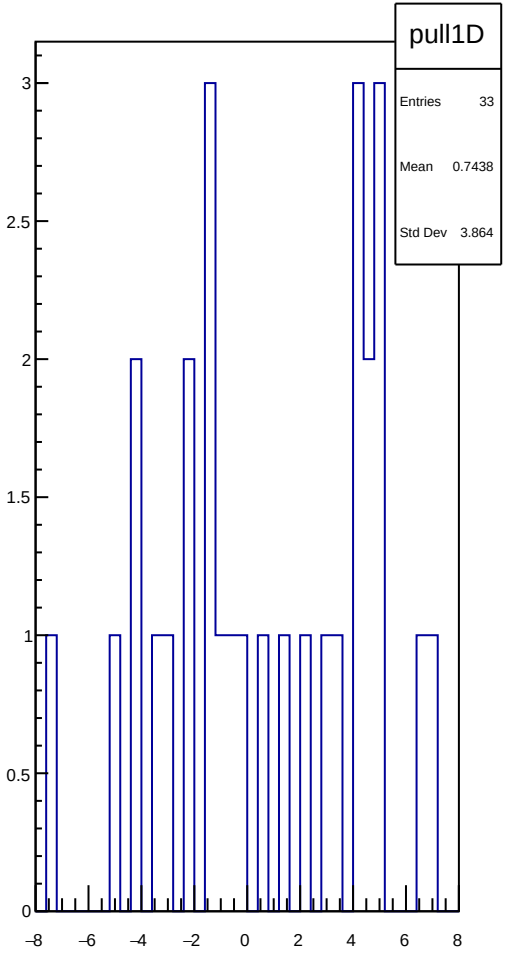

asym_bpm0i07WS_rms vs run
χ² / ndf 5.359e+04 / 32
p0 278.1 ± 0.3595
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

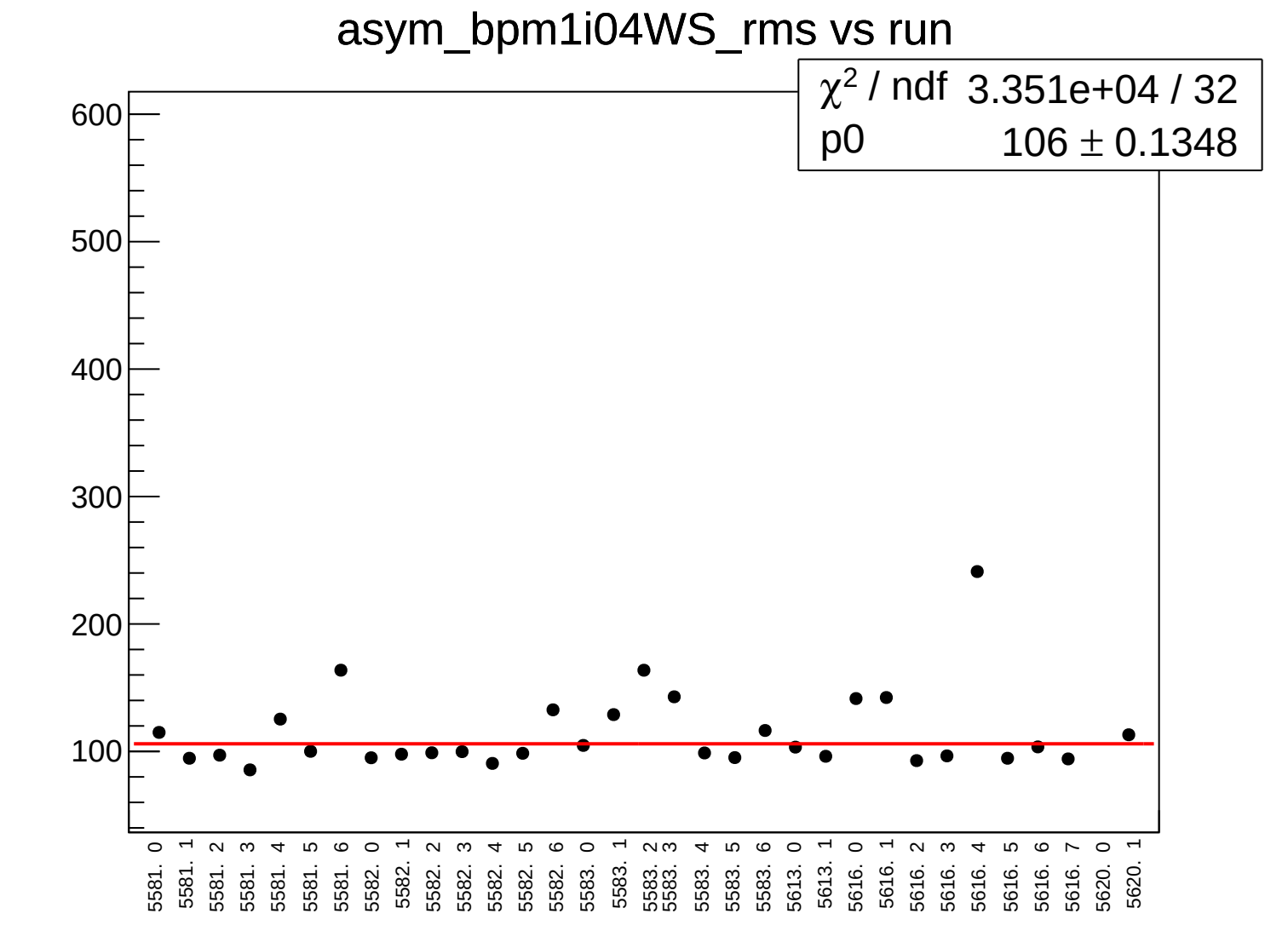

asym_bpm1i02WS_mean vs run
χ² / ndf 734.6 / 32
p0 8683 ± 218.9
30000
25000
20000
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 277.8
Std Dev 0
10
5
0
−5
−10

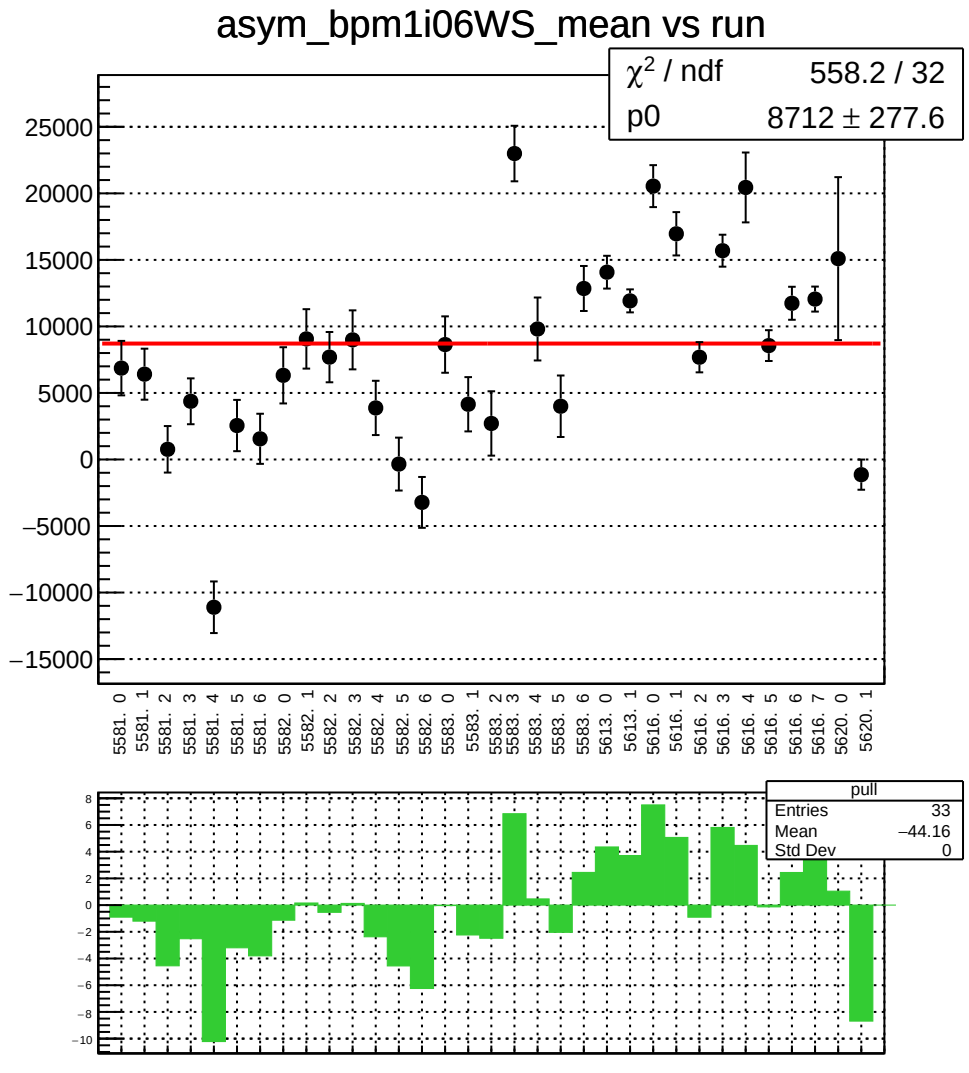

pull1D
Entries 33
Mean 0.354
Std Dev 3.85
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

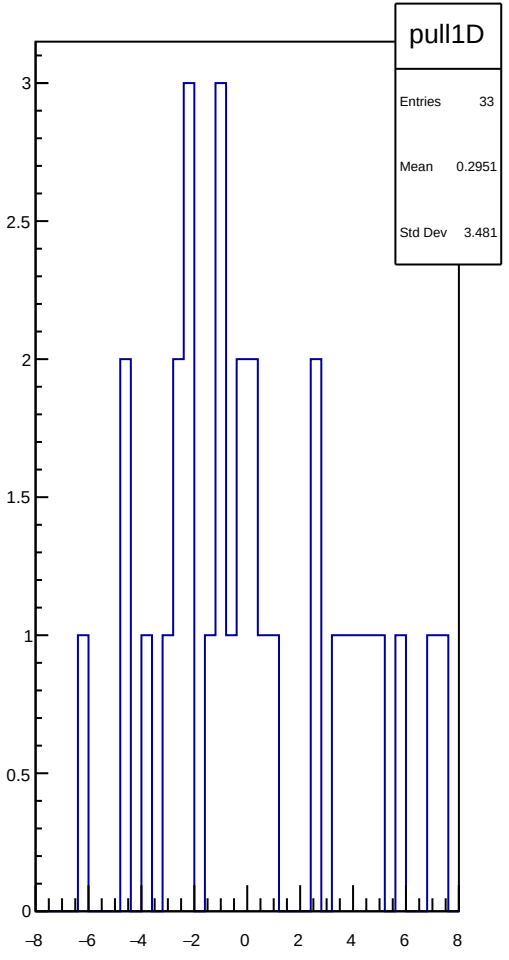

asym_bpm1i02WS_rms vs run
χ² / ndf 2.818e+04 / 32
p0 122.2 ± 0.1548
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

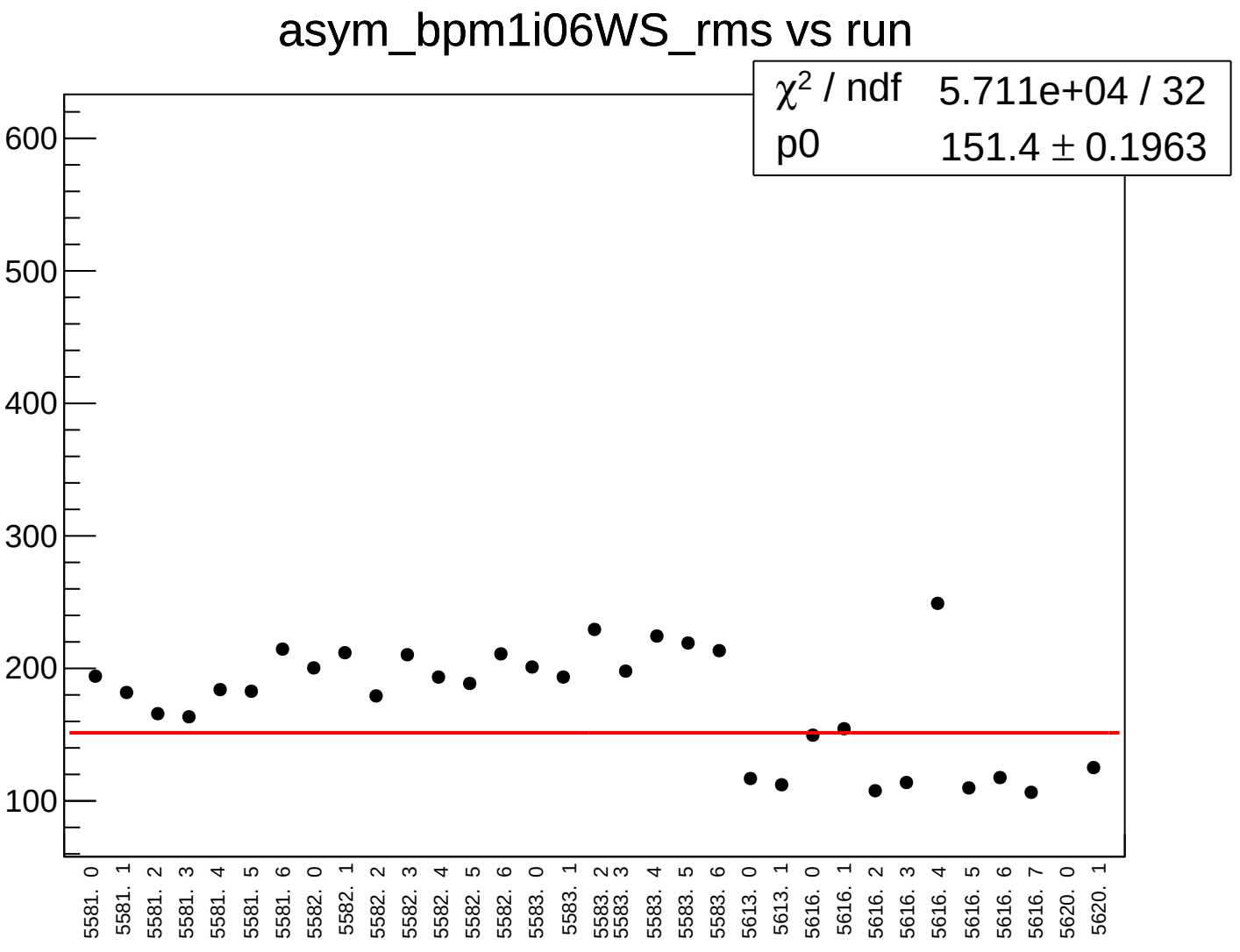

asym_bpm1i04WS_mean vs run
χ² / ndf 881.7 / 32
p0 8203 ± 190.6
25000
20000
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 329.7
Std Dev 0
10
5
0
−5
−10

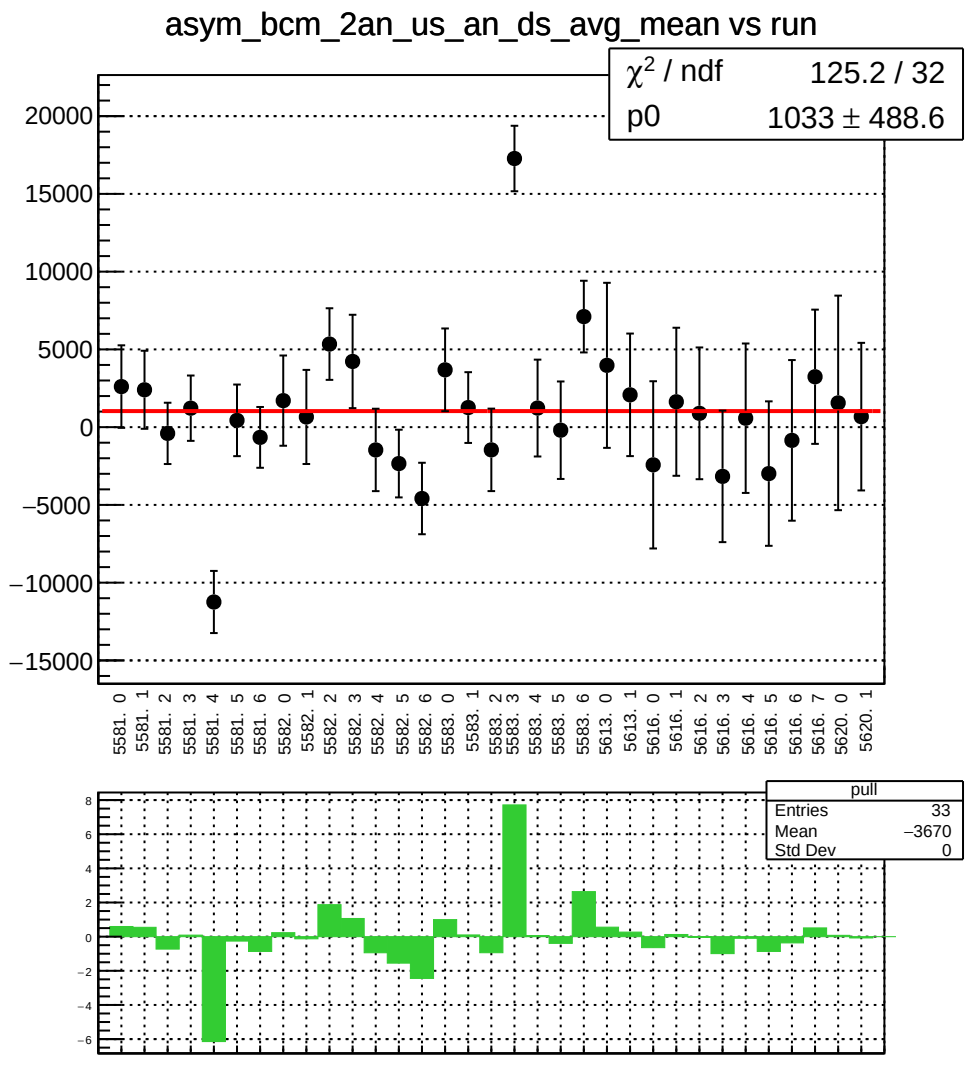

pull1D
Entries 33
Mean 0.7438
Std Dev 3.864
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

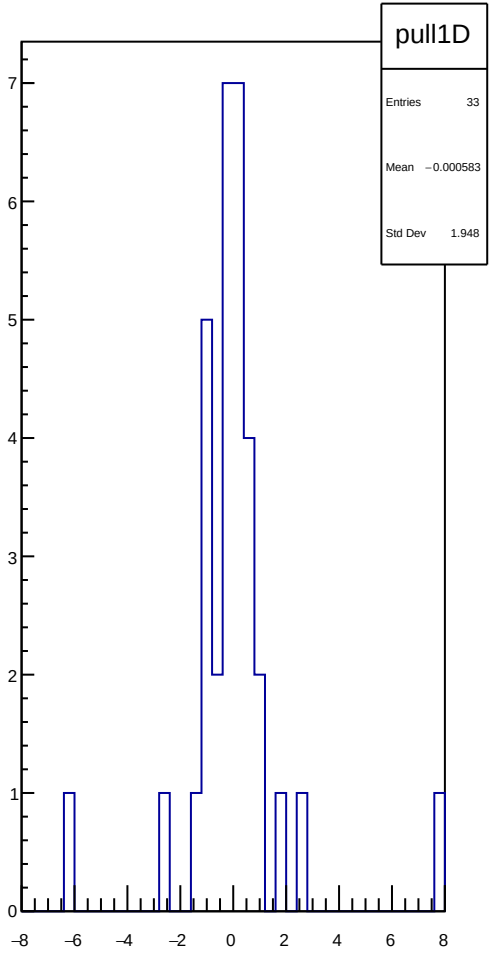

asym_bpm1i04WS_rms vs run
χ² / ndf 3.351e+04 / 32
p0 106 ± 0.1348
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

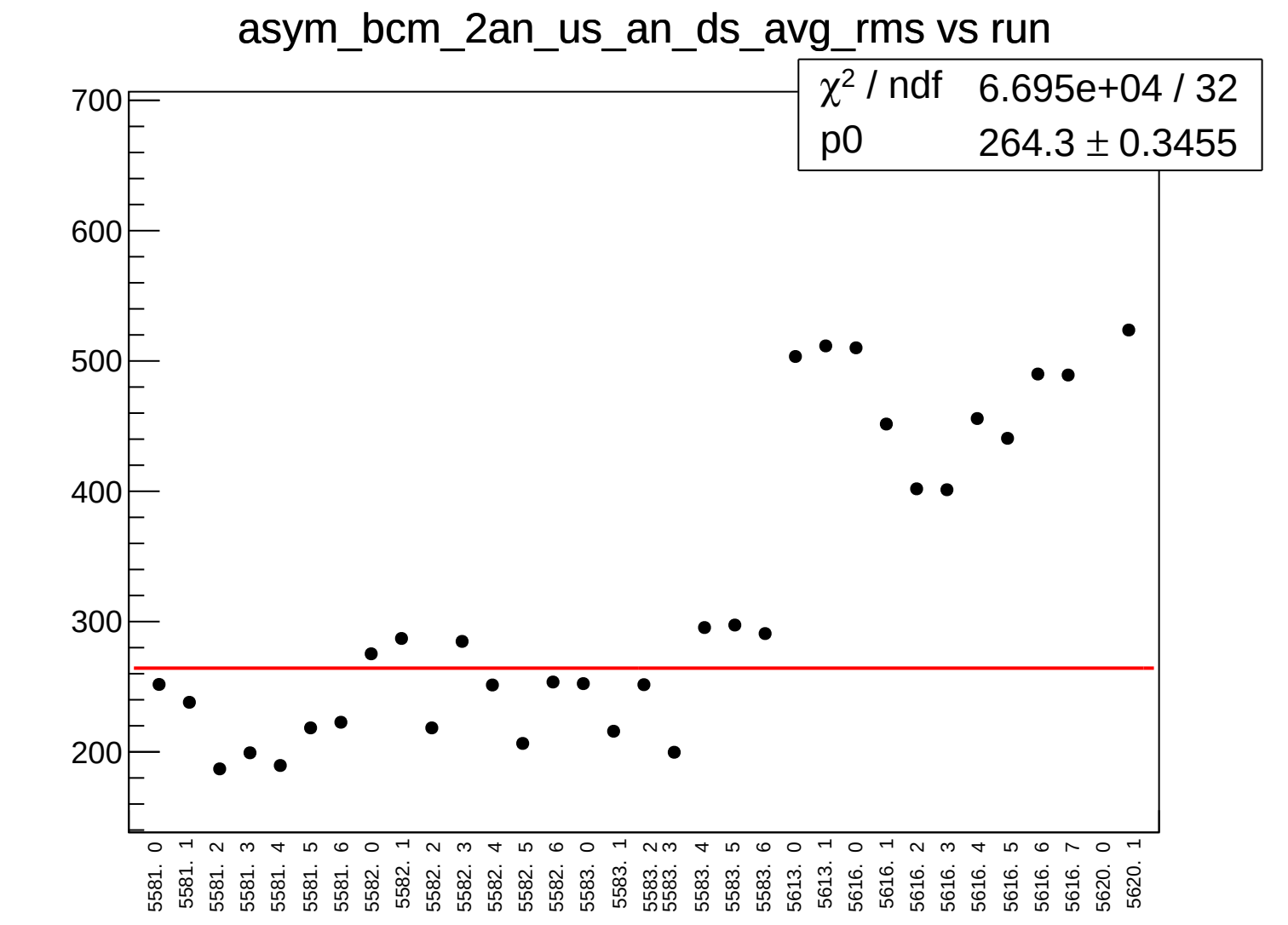

asym_bpm1i06WS_mean vs run
χ² / ndf 558.2 / 32
p0 8712 ± 277.6
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −44.16
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10

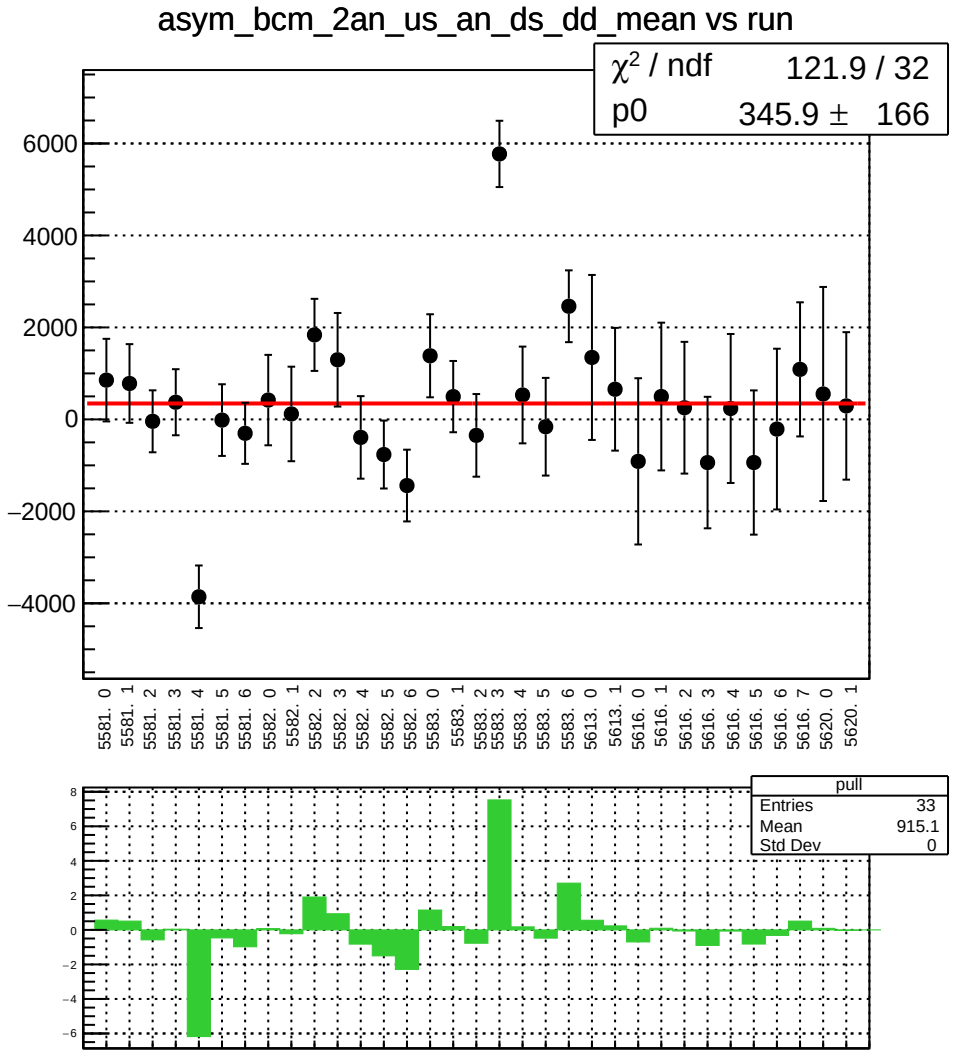

pull1D
Entries 33
Mean 0.2951
Std Dev 3.481
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

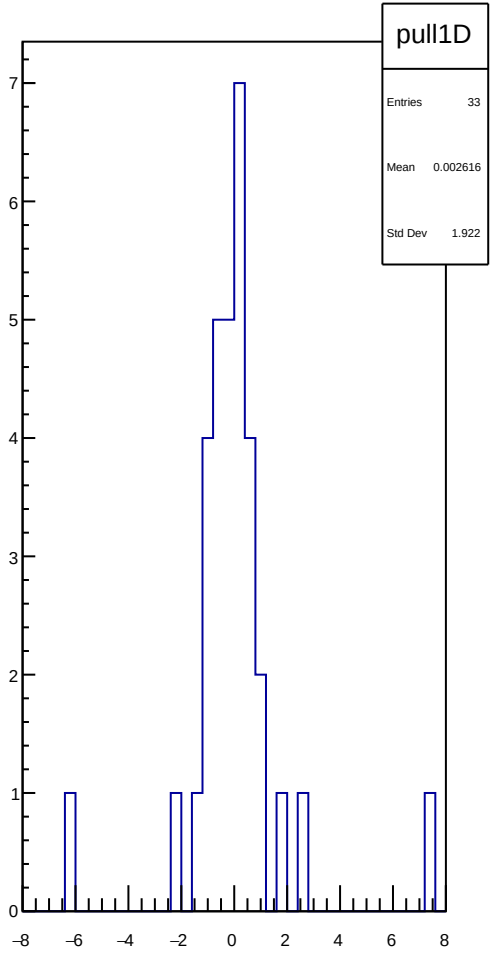

asym_bpm1i06WS_rms vs run
χ² / ndf 5.711e+04 / 32
p0 151.4 ± 0.1963
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

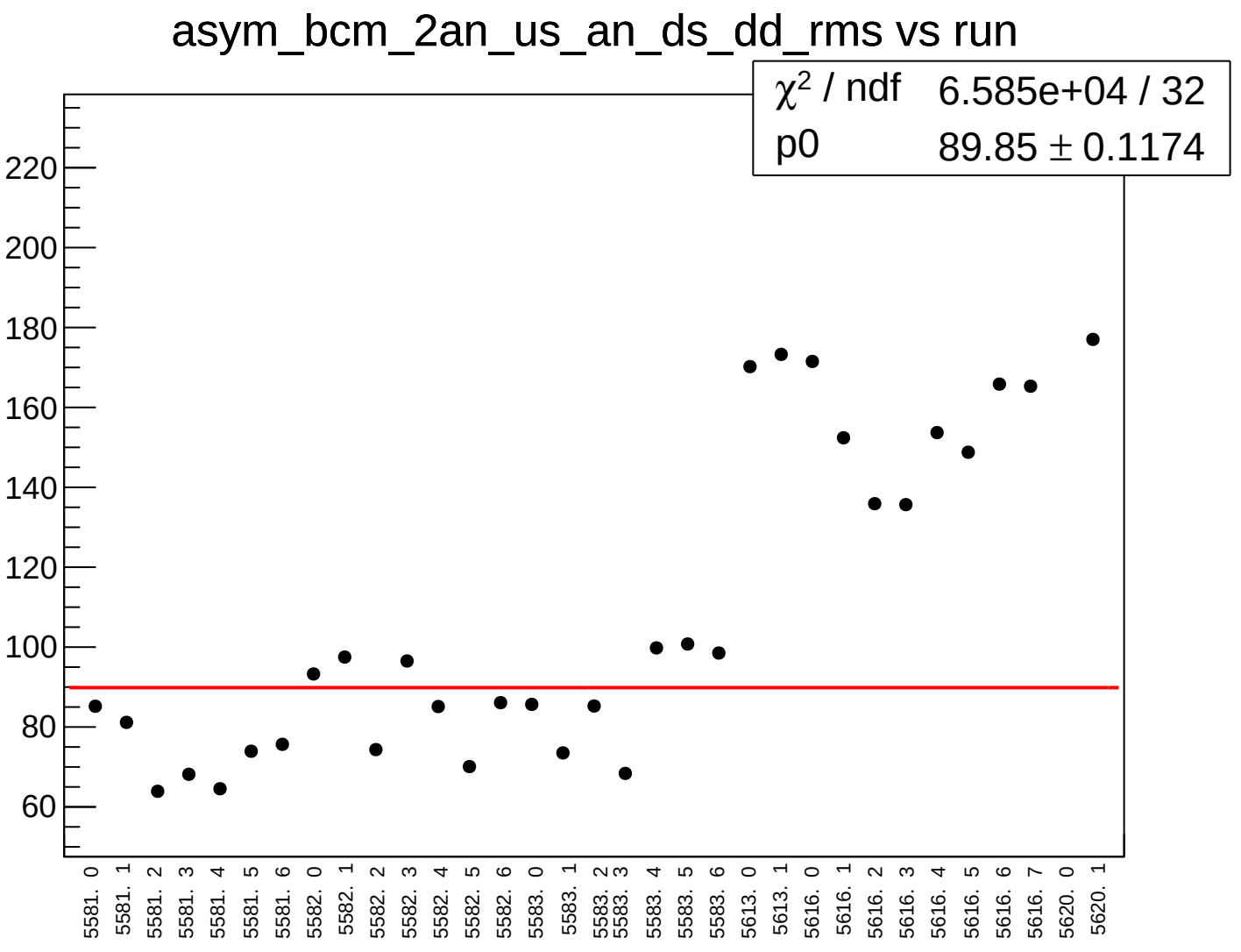

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 125.2 / 32
p0 1033 ± 488.6
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −3670
Std Dev 0
8
6
4
2
0
−2
−4
−6

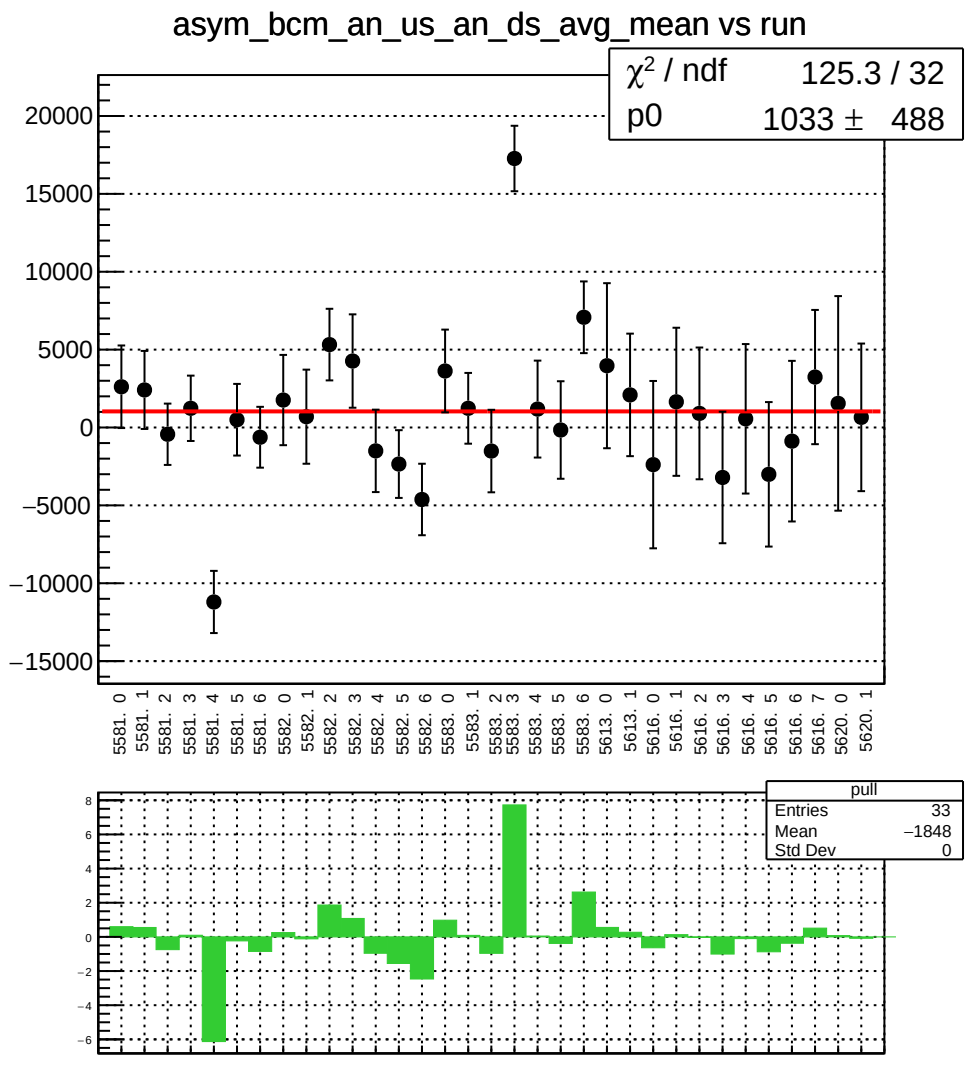

pull1D
Entries 33
Mean −0.000583
Std Dev 1.948
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

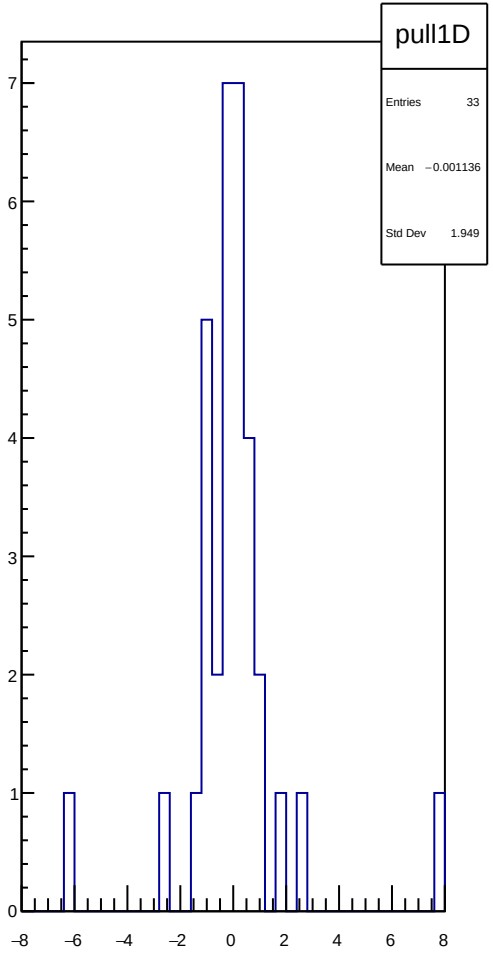

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 6.695e+04 / 32
p0 264.3 ± 0.3455
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

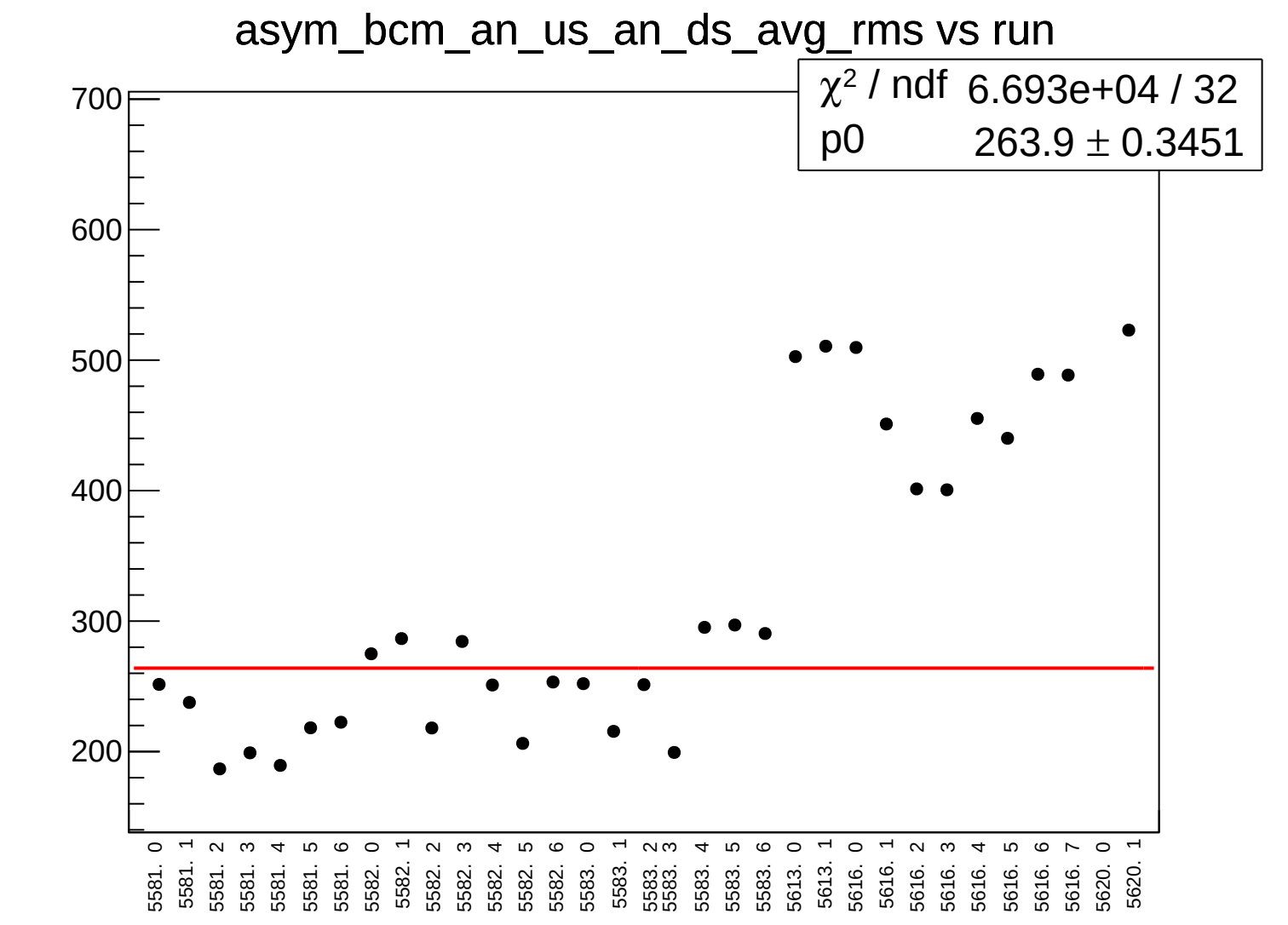

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 121.9 / 32
p0 345.9 ± 166
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 915.1
Std Dev 0
8
6
4
2
0
−2
−4
−6

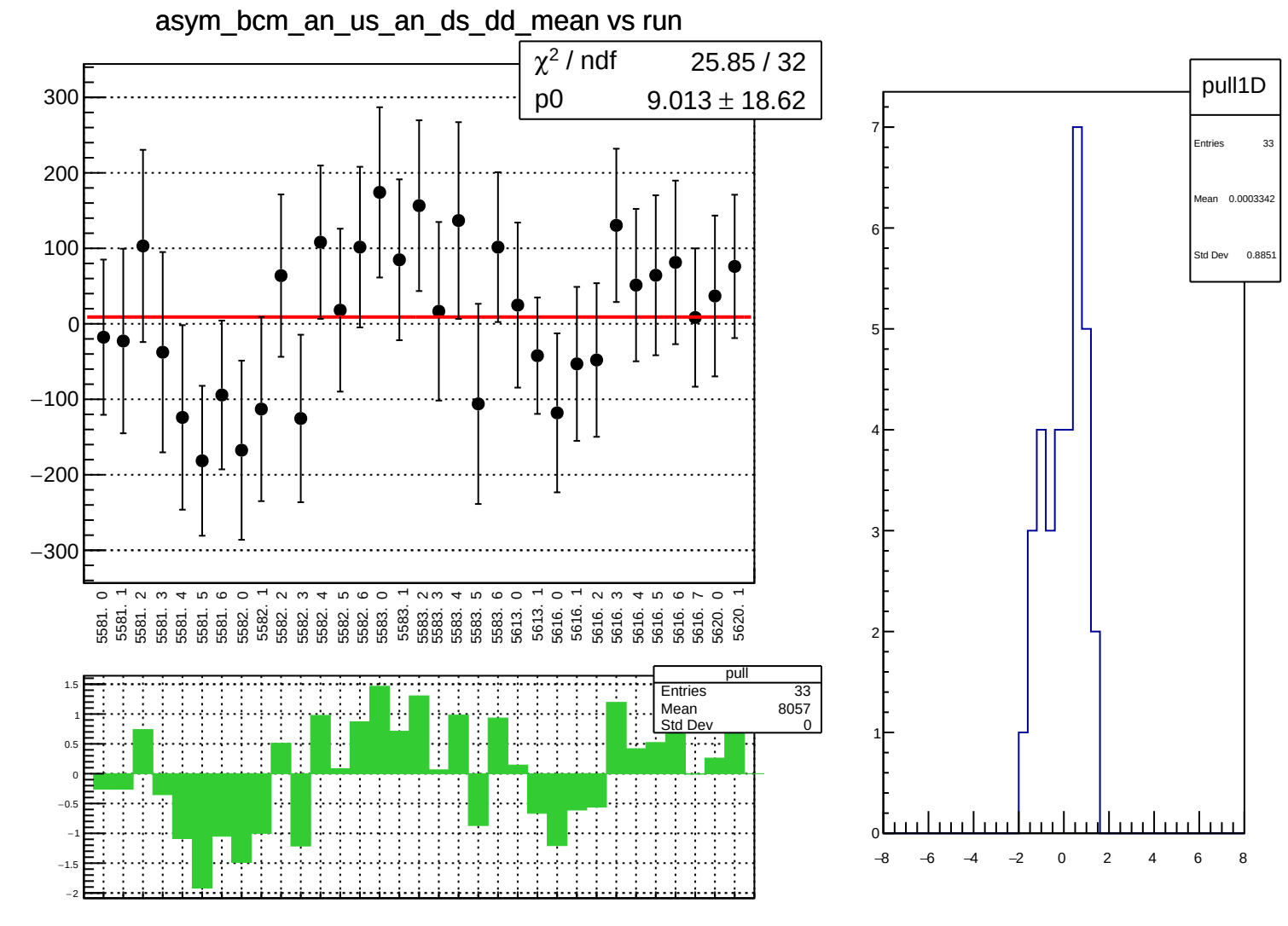

pull1D
Entries 33
Mean 0.002616
Std Dev 1.922
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

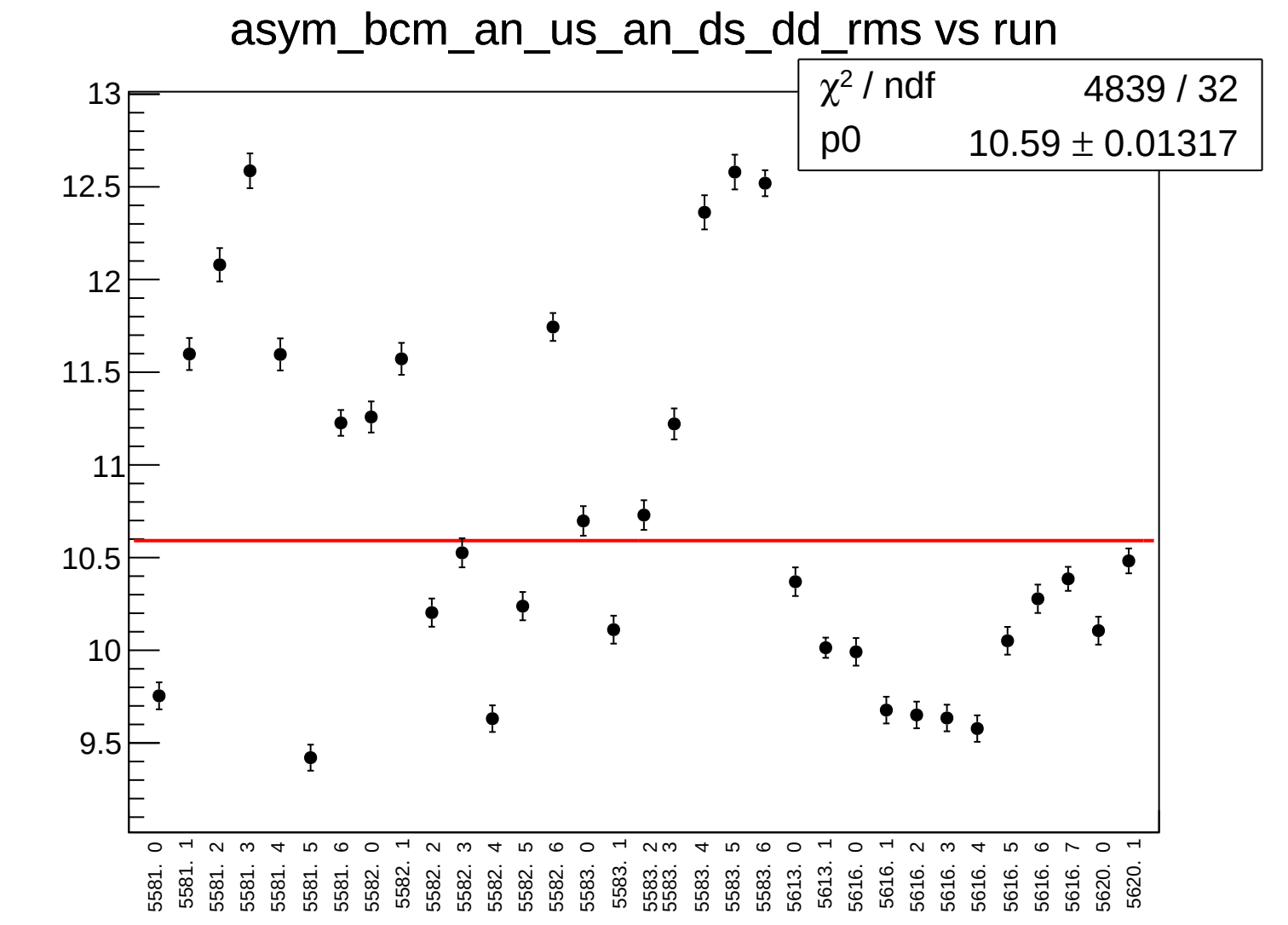

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 6.585e+04 / 32
p0 89.85 ± 0.1174
220
200
180
160
140
120
100
80
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

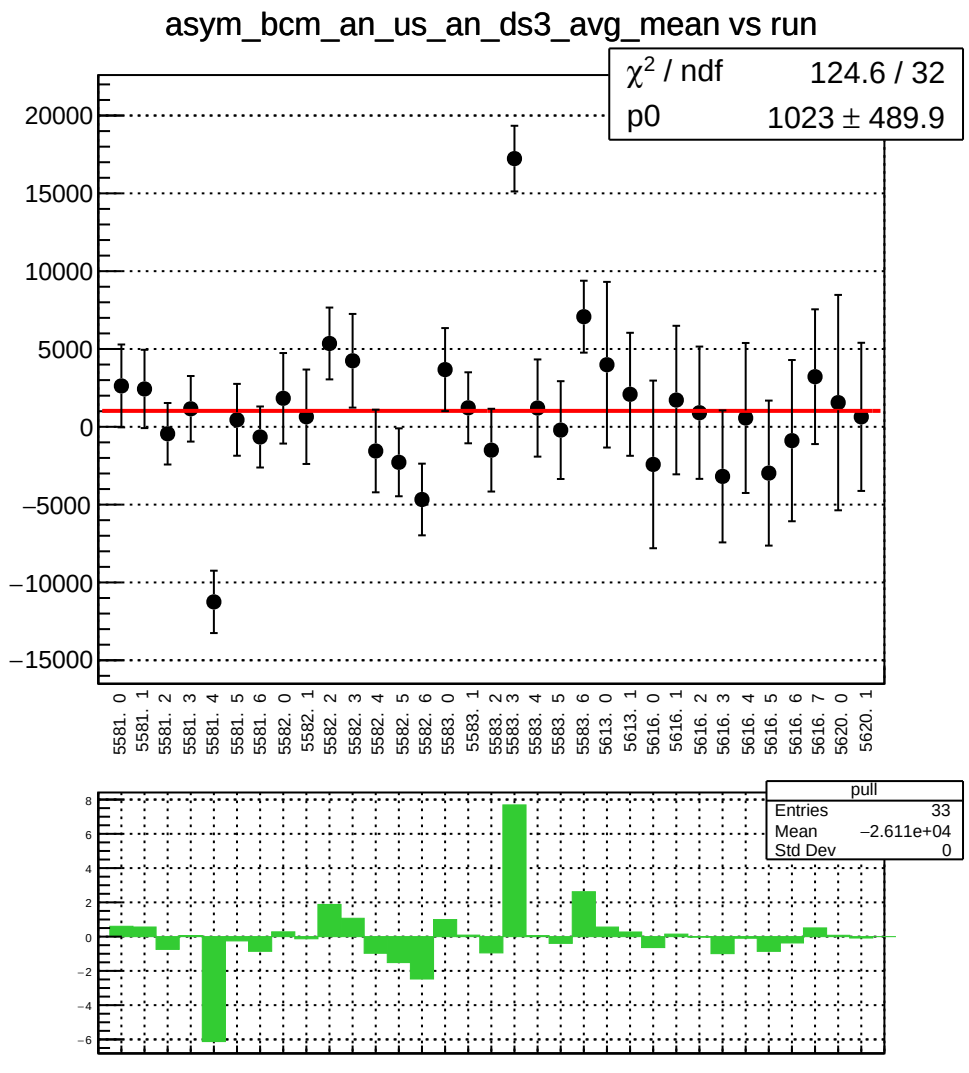

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 125.3 / 32
p0 1033 ± 488
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −1848
Std Dev 0
8
6
4
2
0
−2
−4
−6

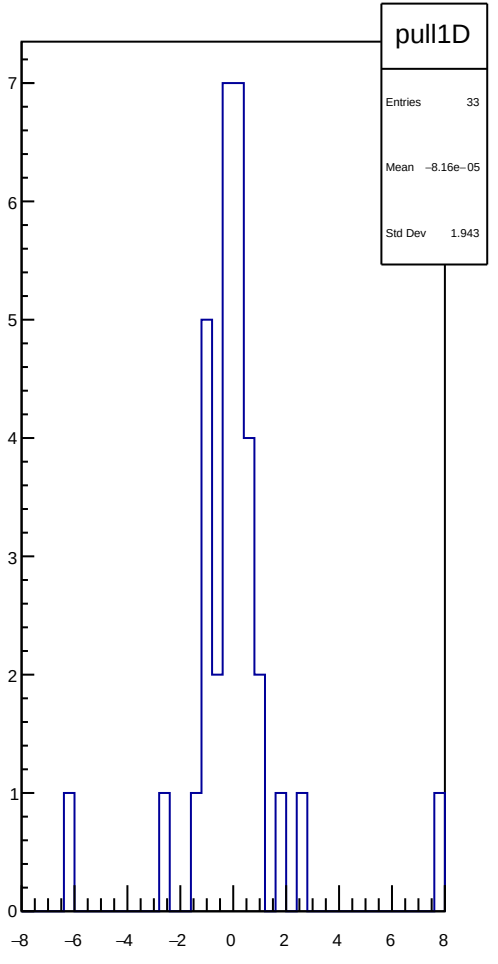

pull1D
Entries 33
Mean −0.001136
Std Dev 1.949
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

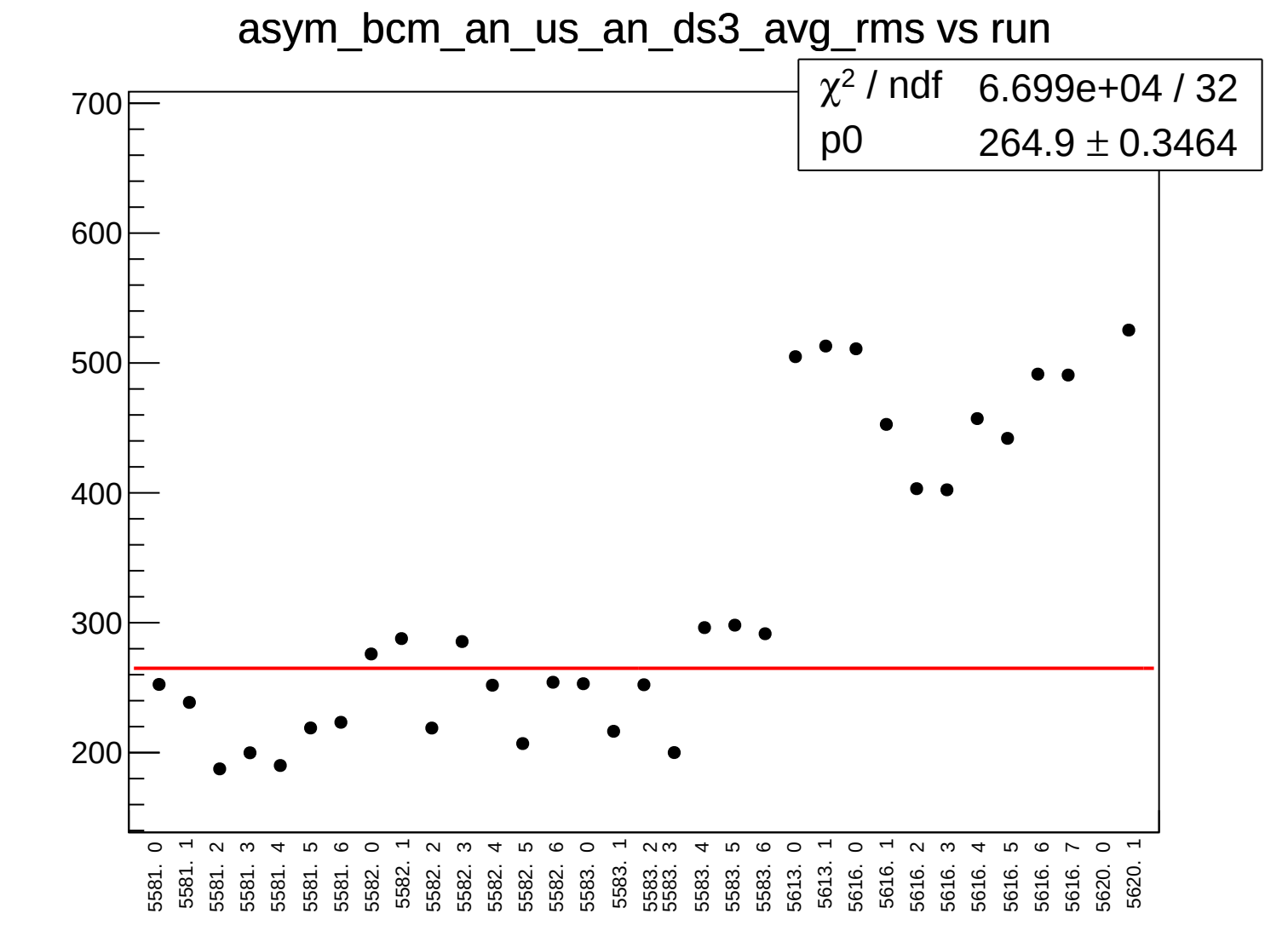

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 6.693e+04 / 32
p0 263.9 ± 0.3451
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

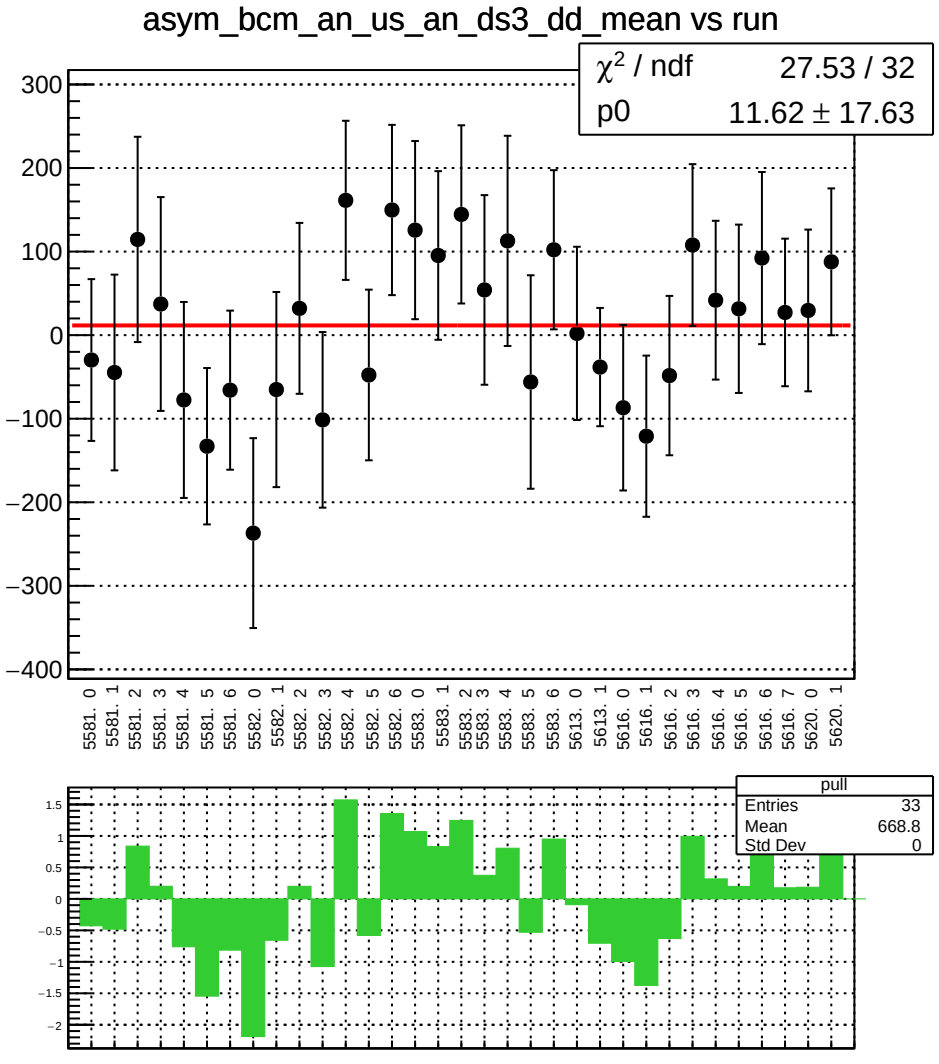

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 25.85 / 32
p0 9.013 ± 18.62
300
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 8057
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.0003342
Std Dev 0.8851
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

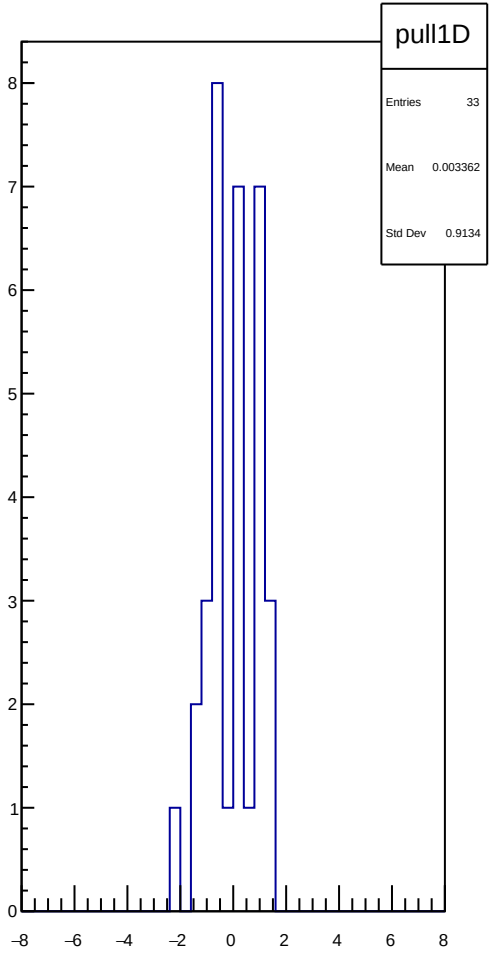

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 4839 / 32
p0 10.59 ± 0.01317
13
12.5
12
11.5
11
10.5
10
9.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

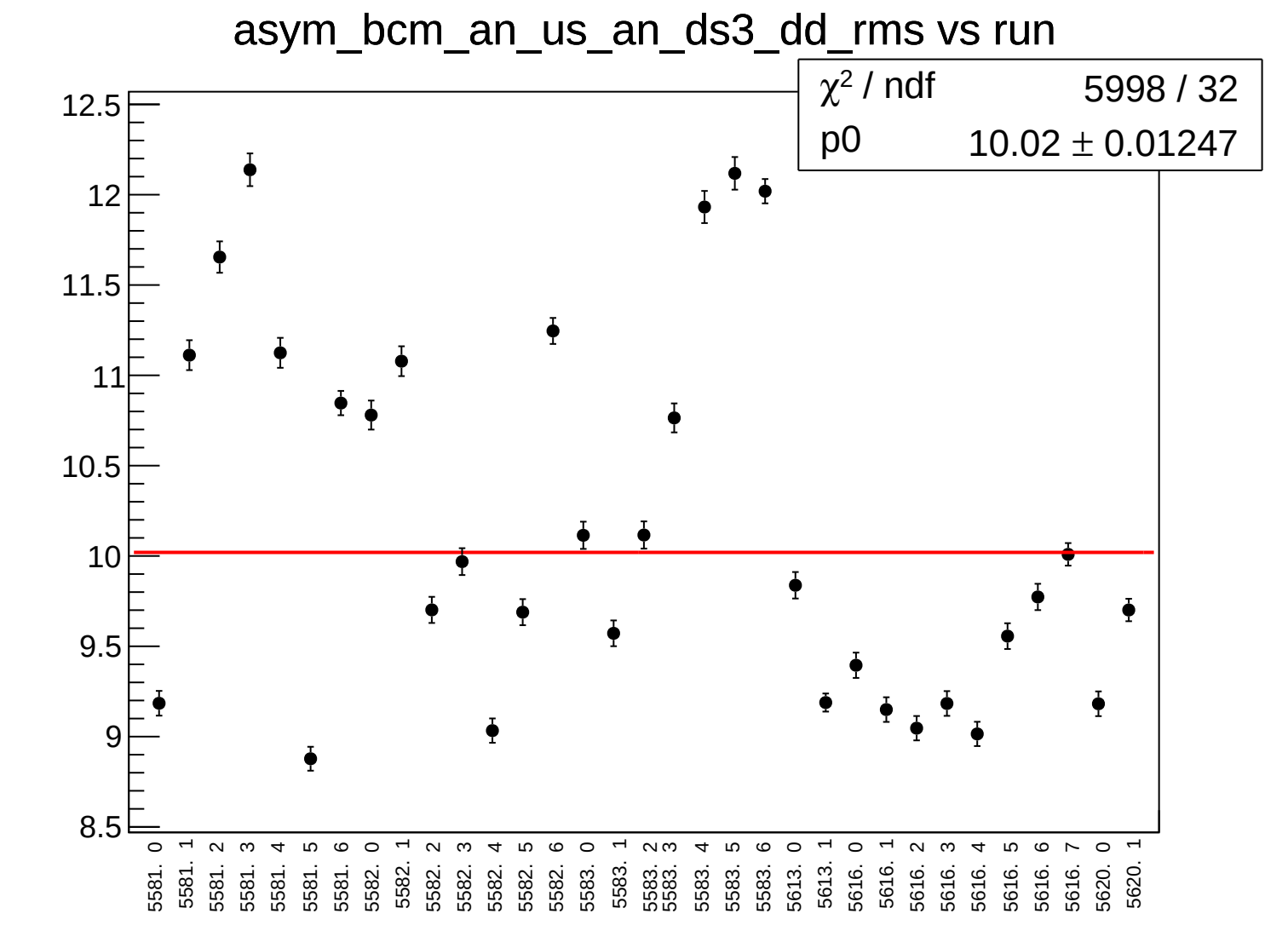

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 124.6 / 32
p0 1023 ± 489.9
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2.611e+04
Std Dev 0
8
6
4
2
0
−2
−4
−6

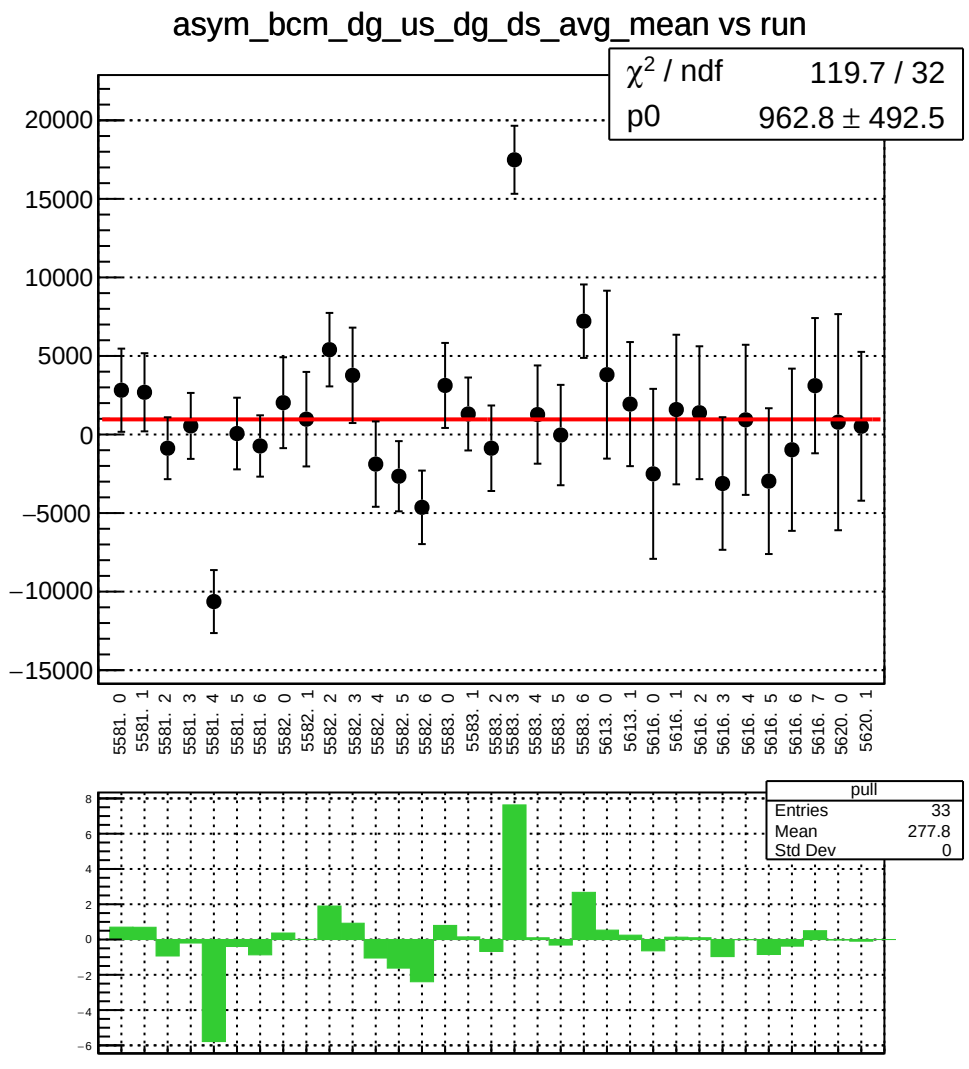

pull1D
Entries 33
Mean −8.16e−05
Std Dev 1.943
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

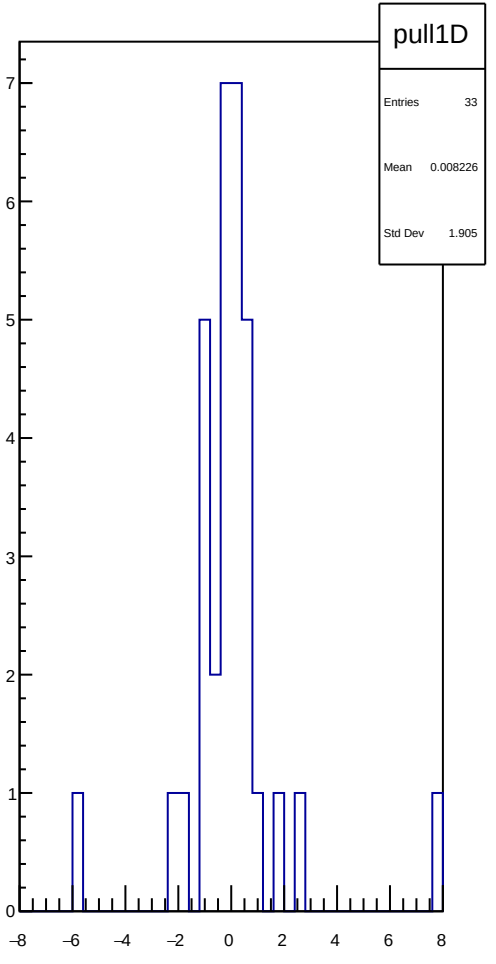

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 6.699e+04 / 32
p0 264.9 ± 0.3464
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

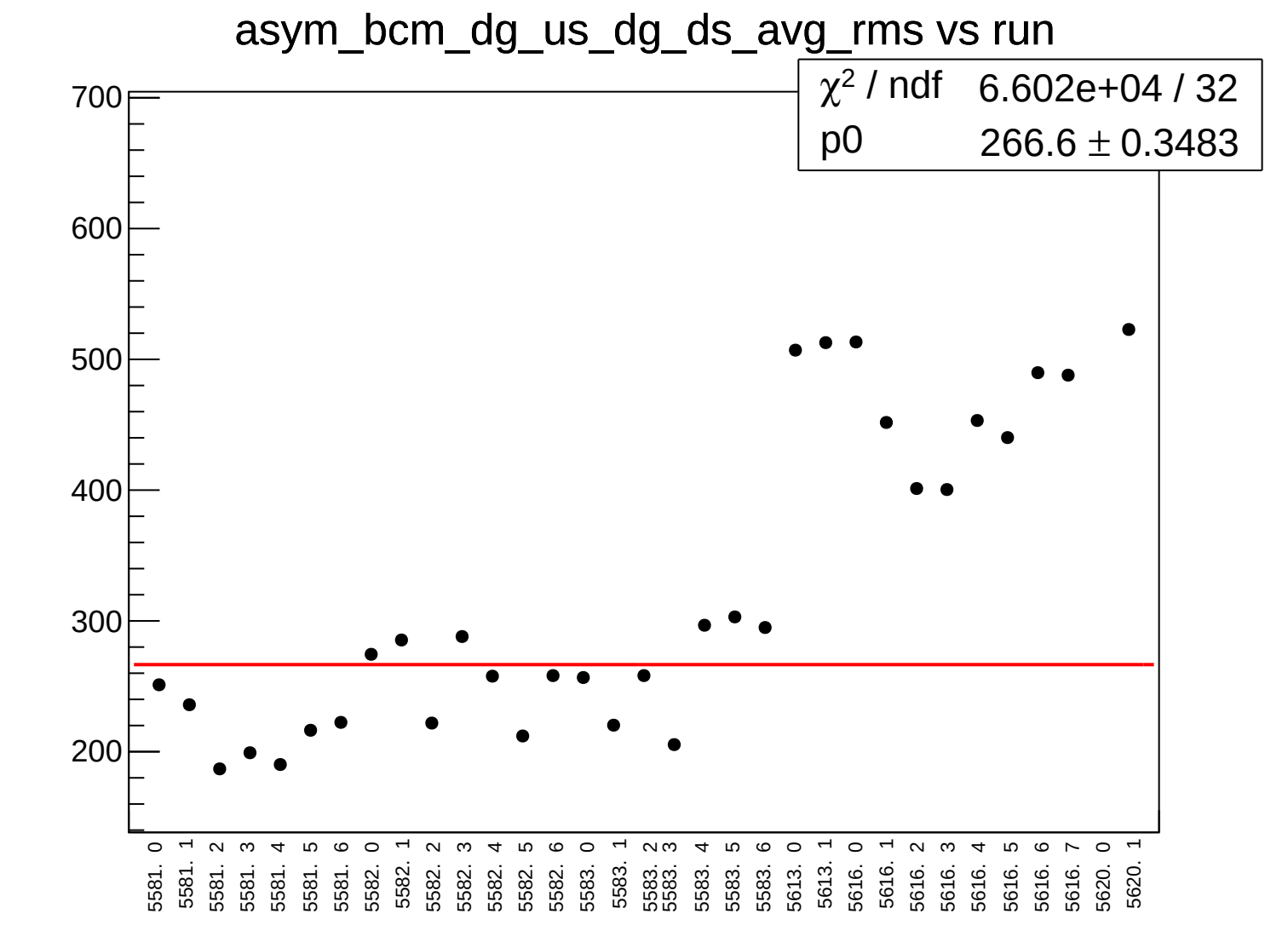

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 27.53 / 32
p0 11.62 ± 17.63
300
200
100
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 668.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

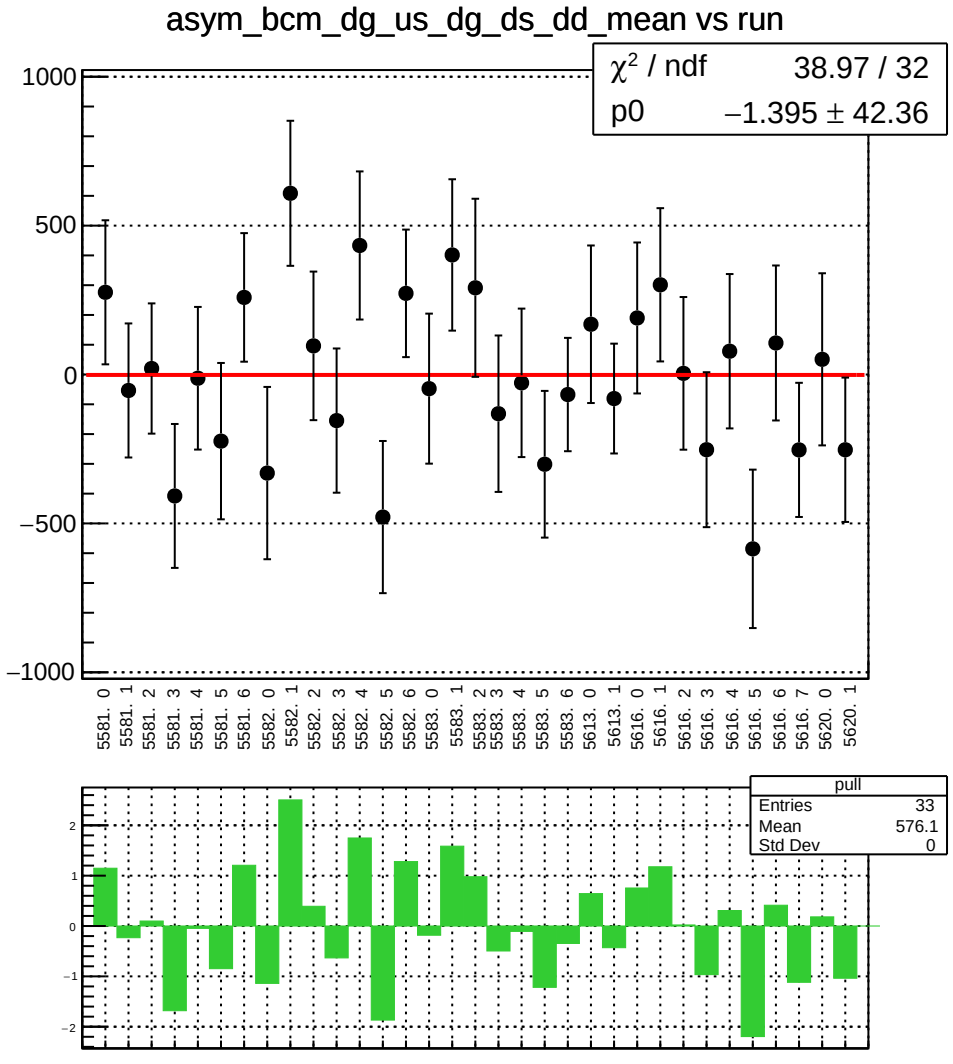

pull1D
Entries 33
Mean 0.003362
Std Dev 0.9134
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

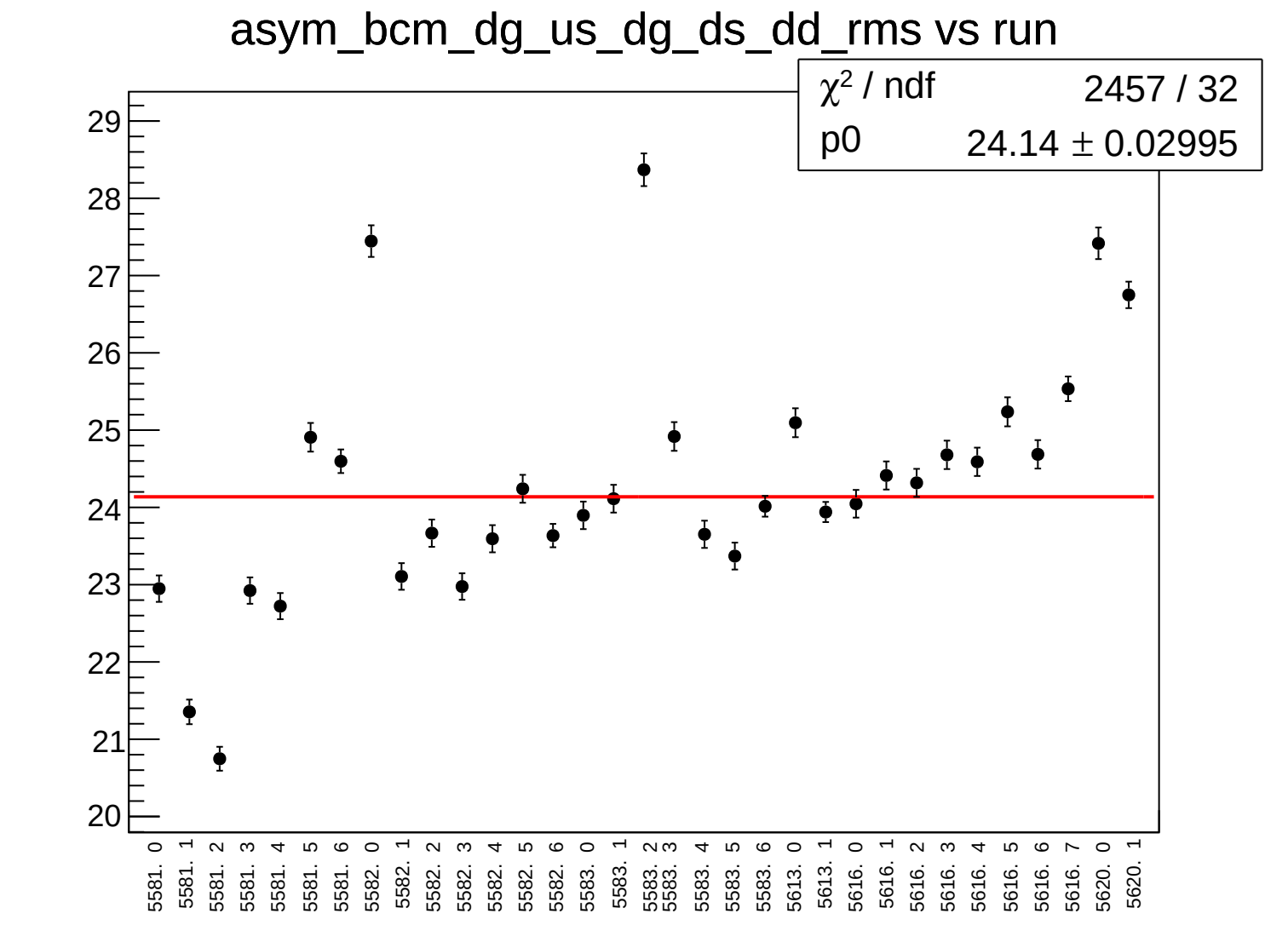

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 5998 / 32
p0 10.02 ± 0.01247
12.5
12
11.5
11
10.5
10
9.5
9
8.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

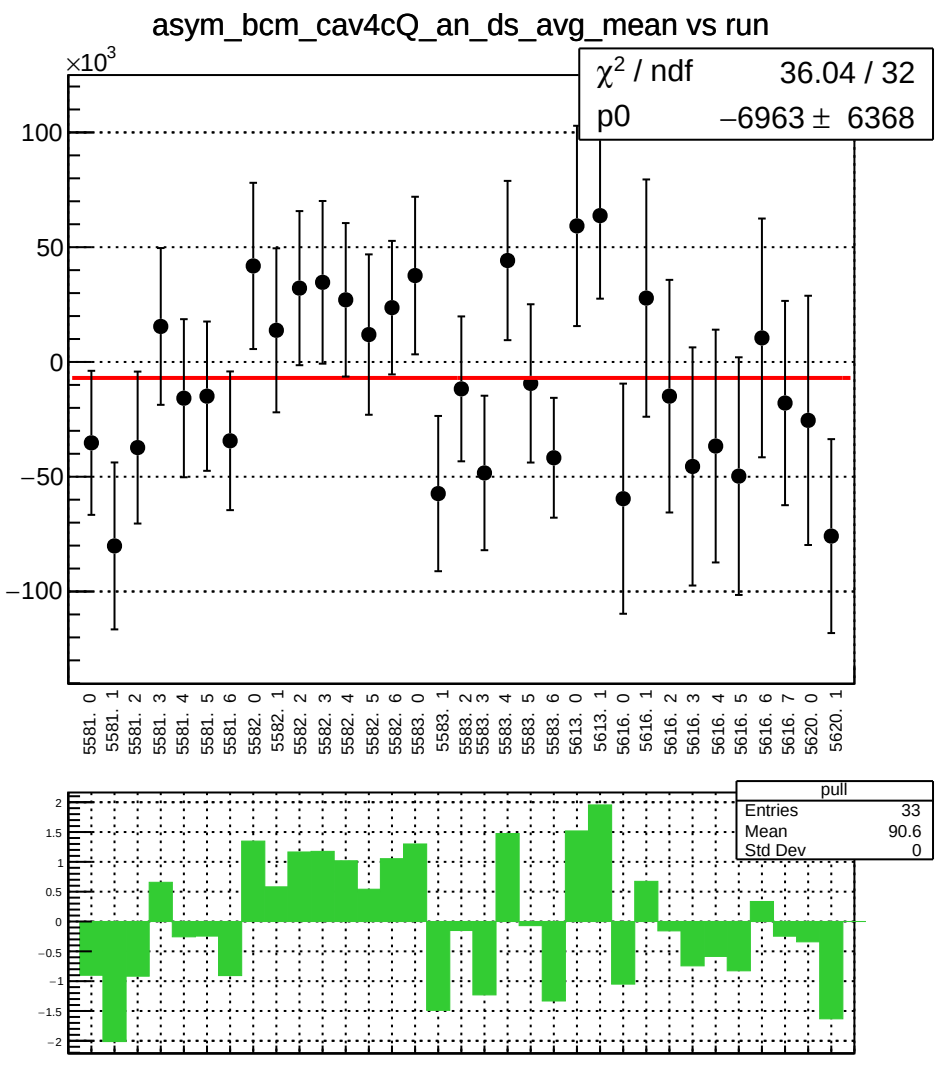

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 119.7 / 32
p0 962.8 ± 492.5
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 277.8
Std Dev 0
8
6
4
2
0
−2
−4
−6

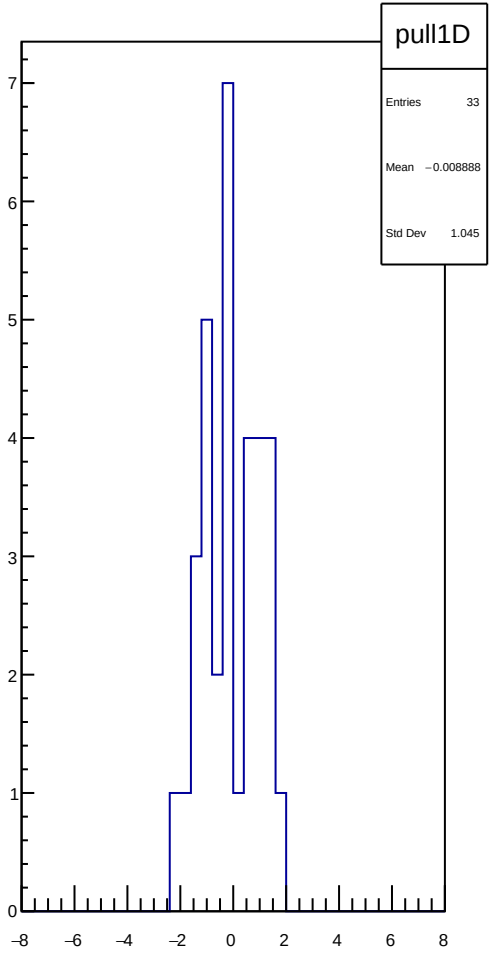

pull1D
Entries 33
Mean 0.008226
Std Dev 1.905
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

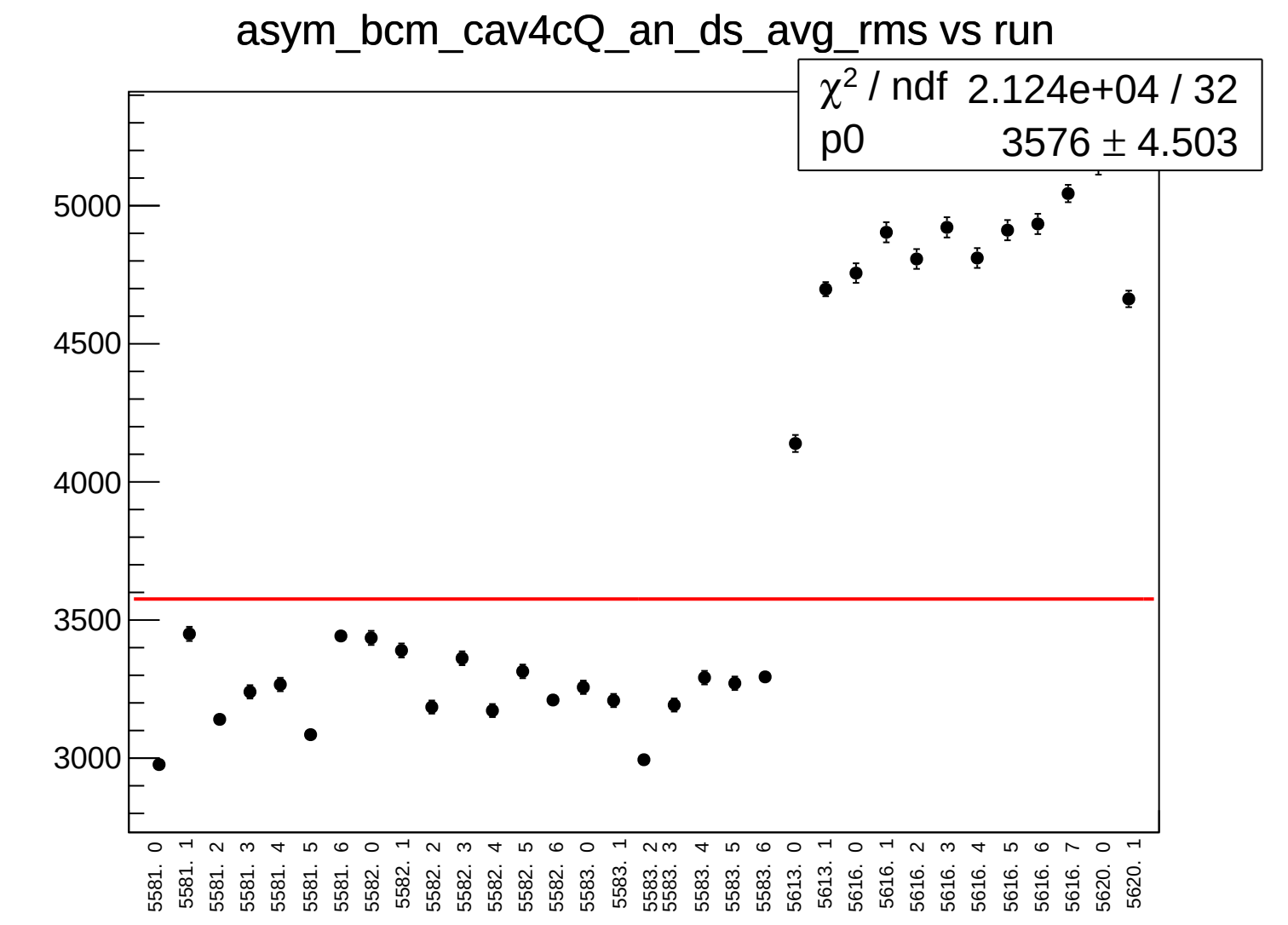

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 6.602e+04 / 32
p0 266.6 ± 0.3483
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

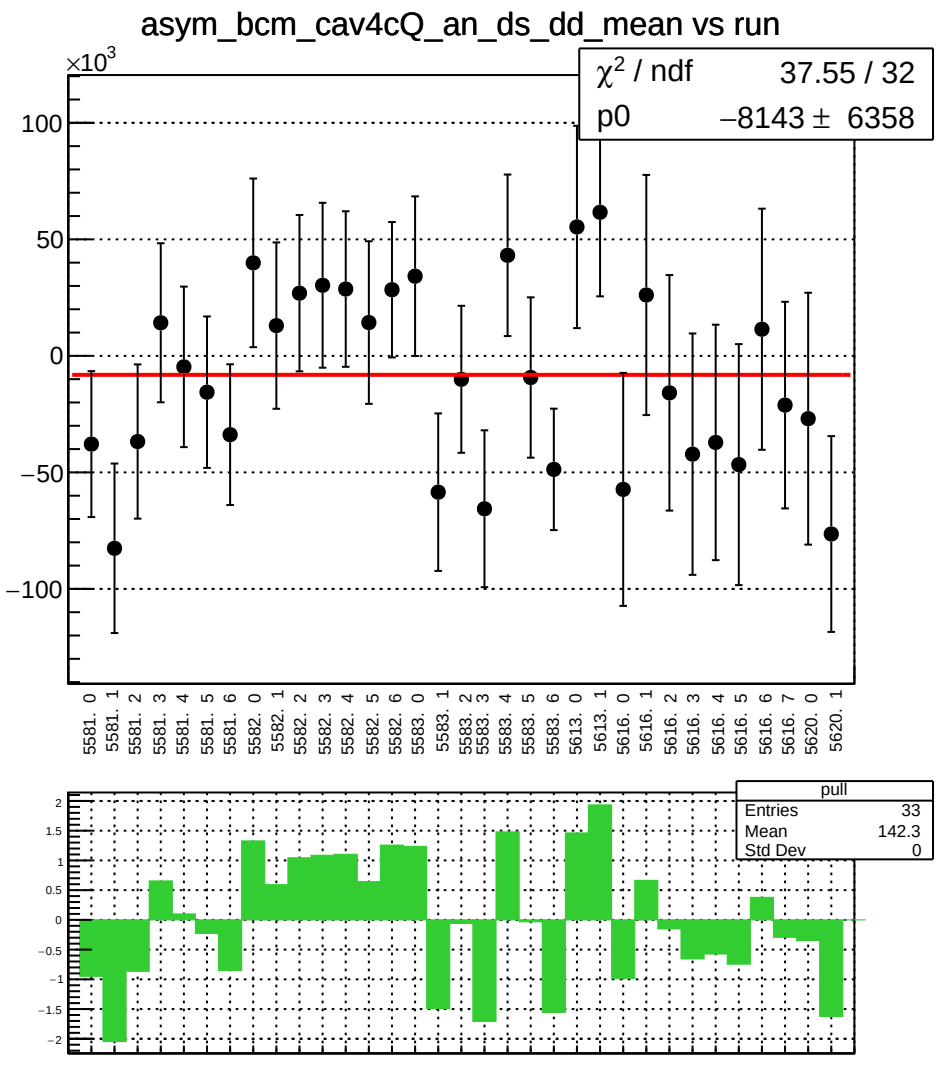

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 38.97 / 32
p0 −1.395 ± 42.36
1000
500
0
−500
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 576.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.003175
Std Dev 1.087
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

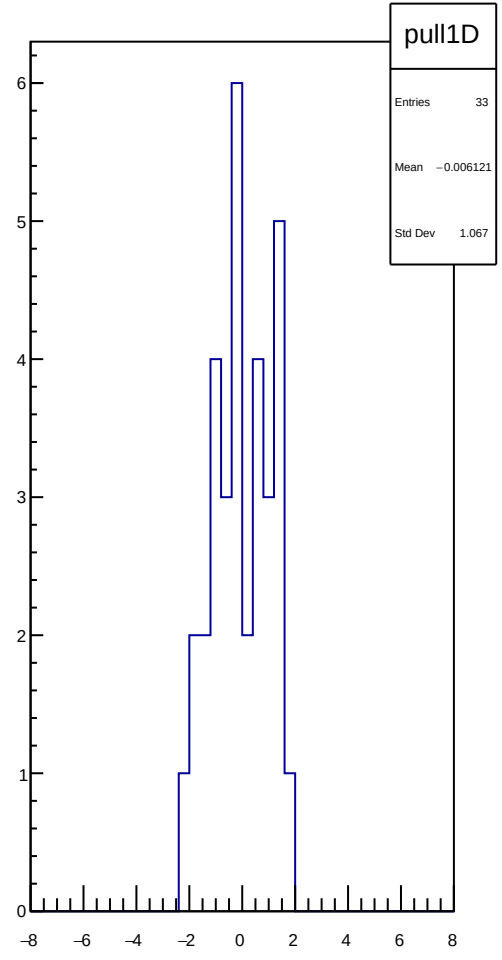

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2457 / 32
p0 24.14 ± 0.02995
29
28
27
26
25
24
23
22
21
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

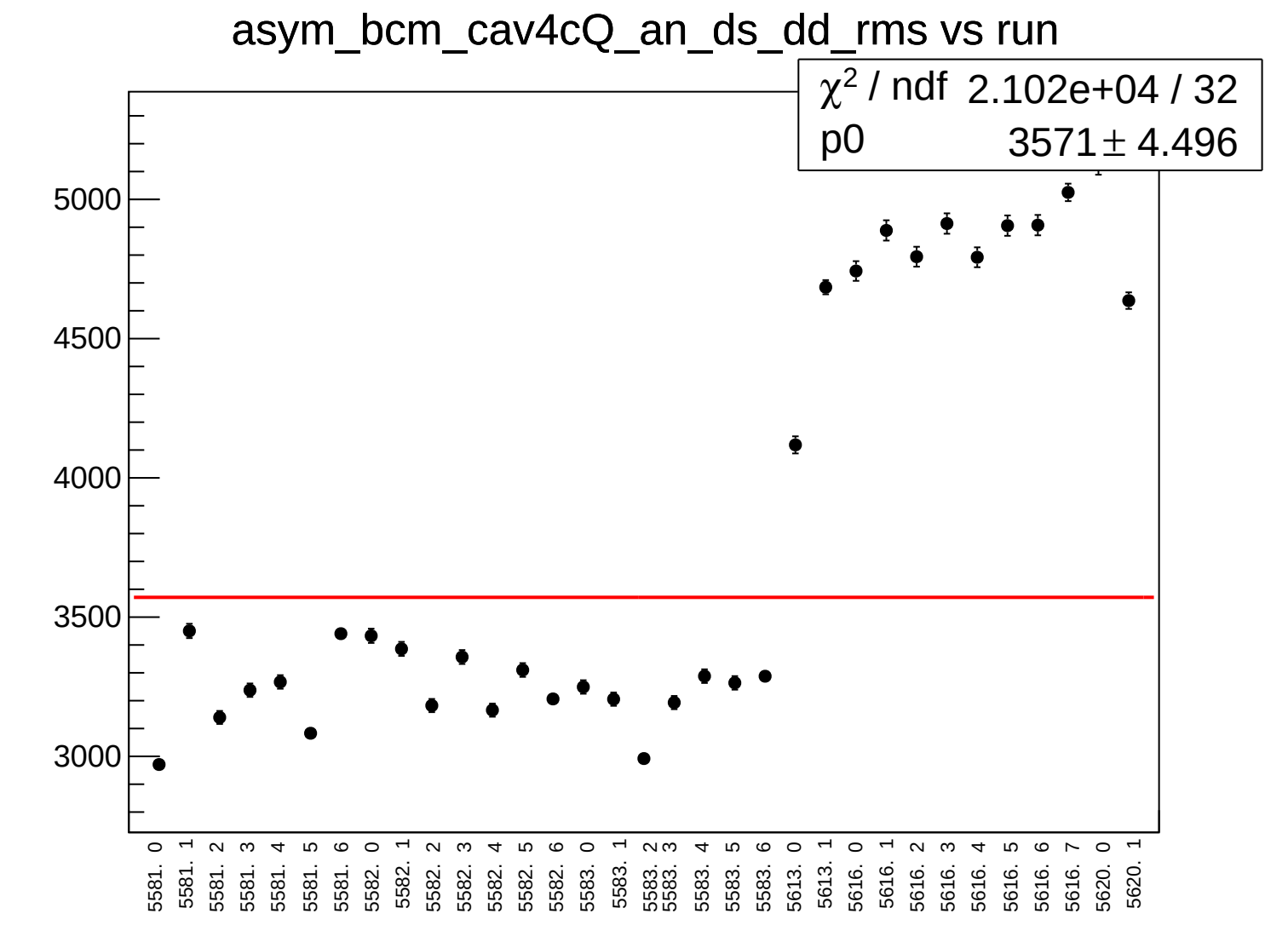

asym_bcm_cav4cQ_an_ds_avg_mean vs run
×10^3
χ^2 / ndf 36.04 / 32
p0 −6963 ± 6368
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 90.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

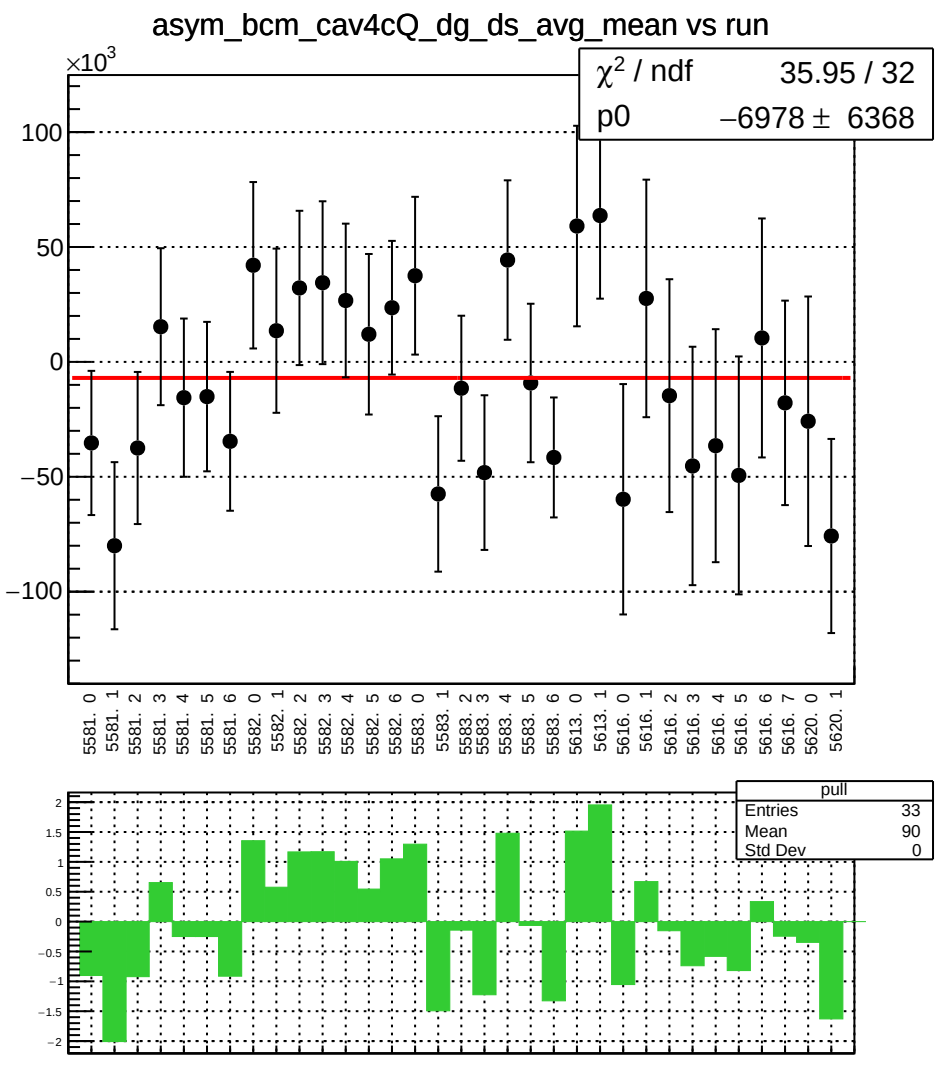

pull1D
Entries 33
Mean −0.008888
Std Dev 1.045
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

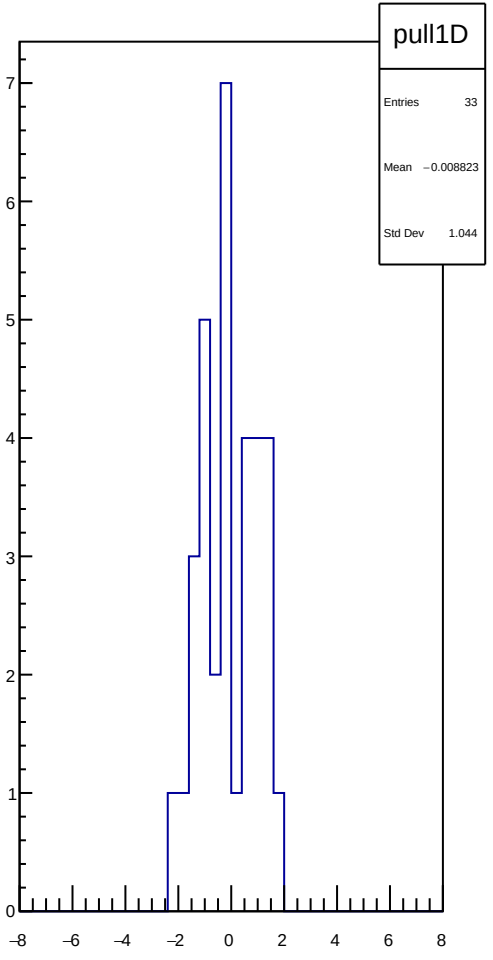

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 2.124e+04 / 32
p0 3576 ± 4.503
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

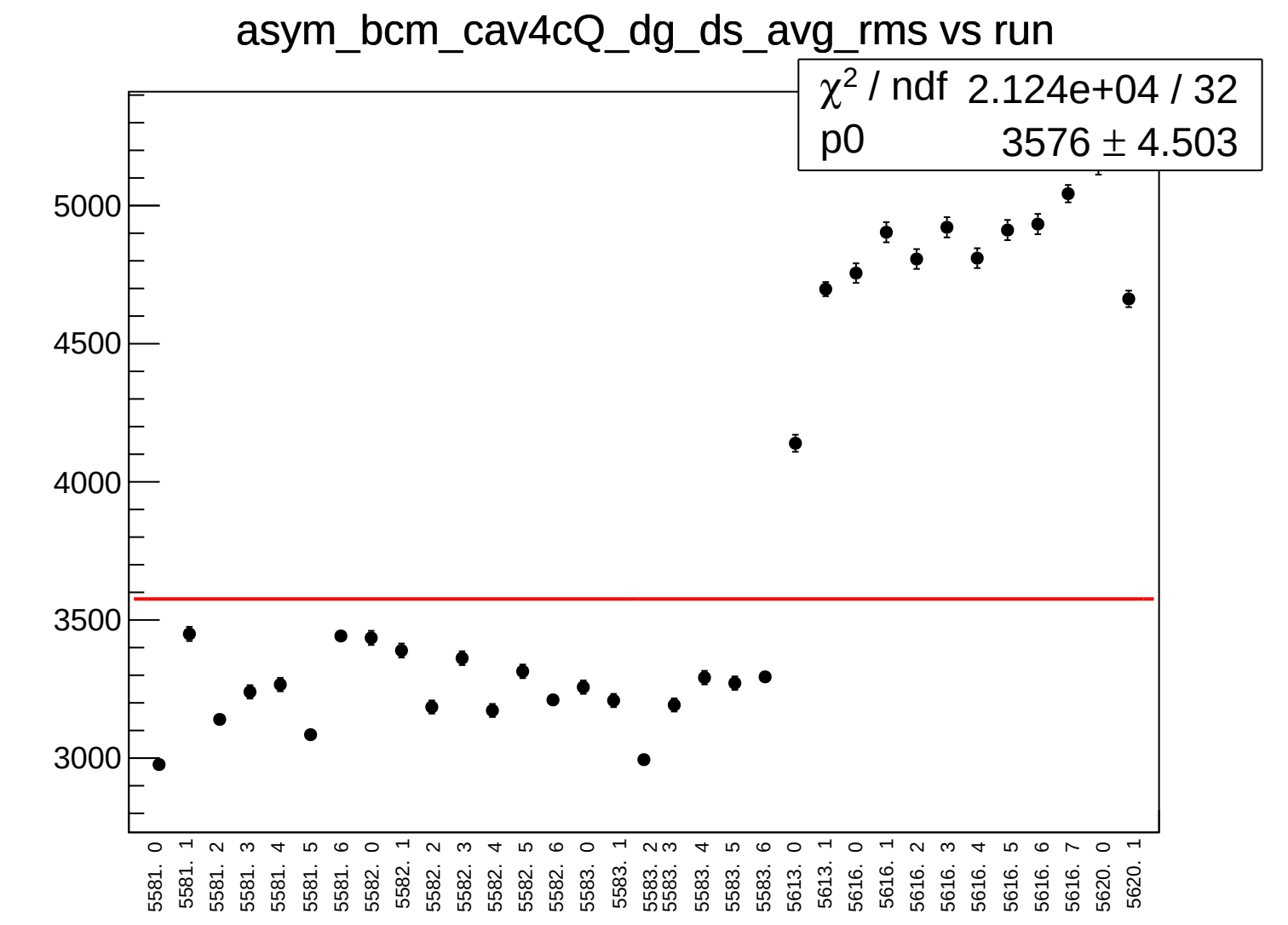

asym_bcm_cav4cQ_an_ds_dd_mean vs run
×10^3
χ² / ndf 37.55 / 32
p0 −8143 ± 6358
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 142.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

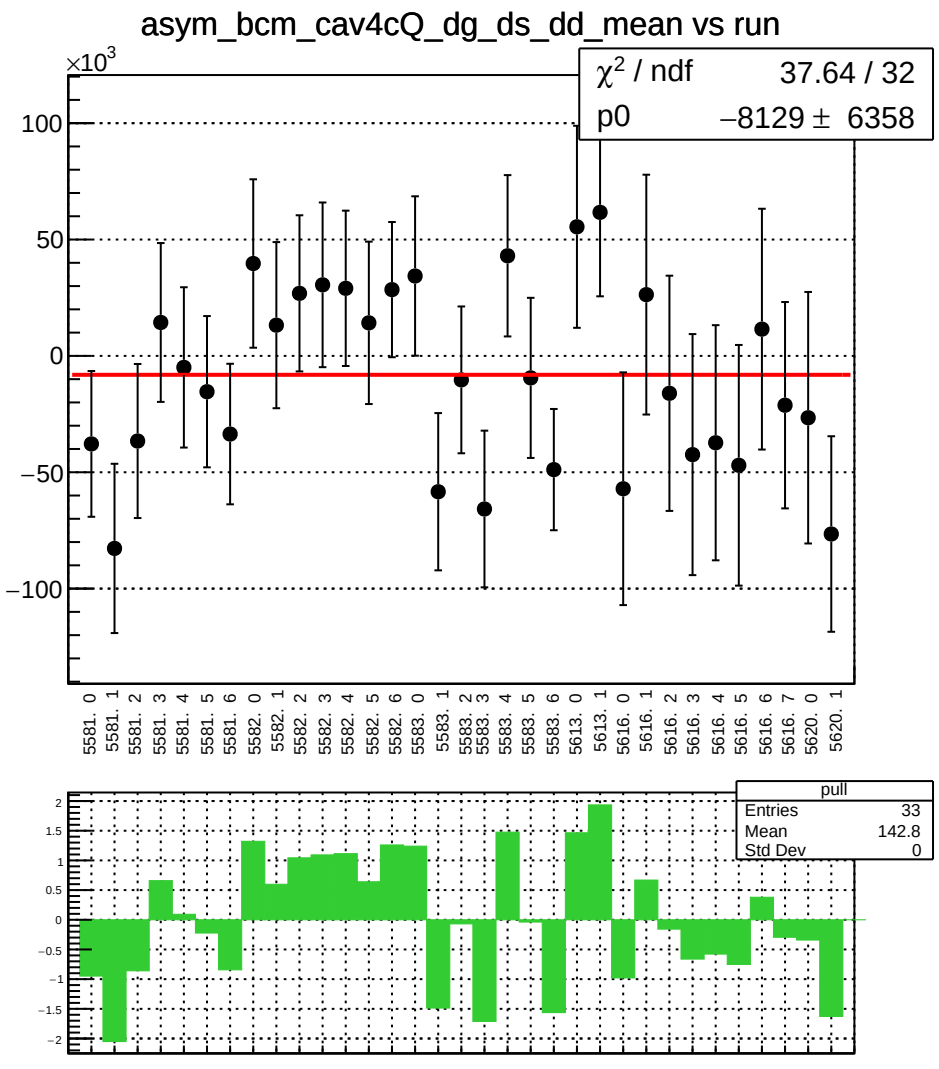

pull1D
Entries 33
Mean −0.006121
Std Dev 1.067
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

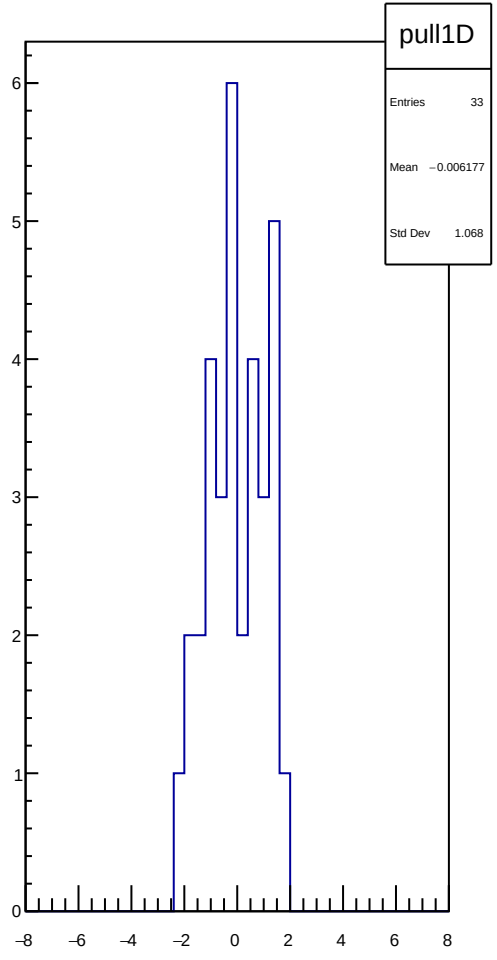

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2.102e+04 / 32
p0 3571 ± 4.496
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

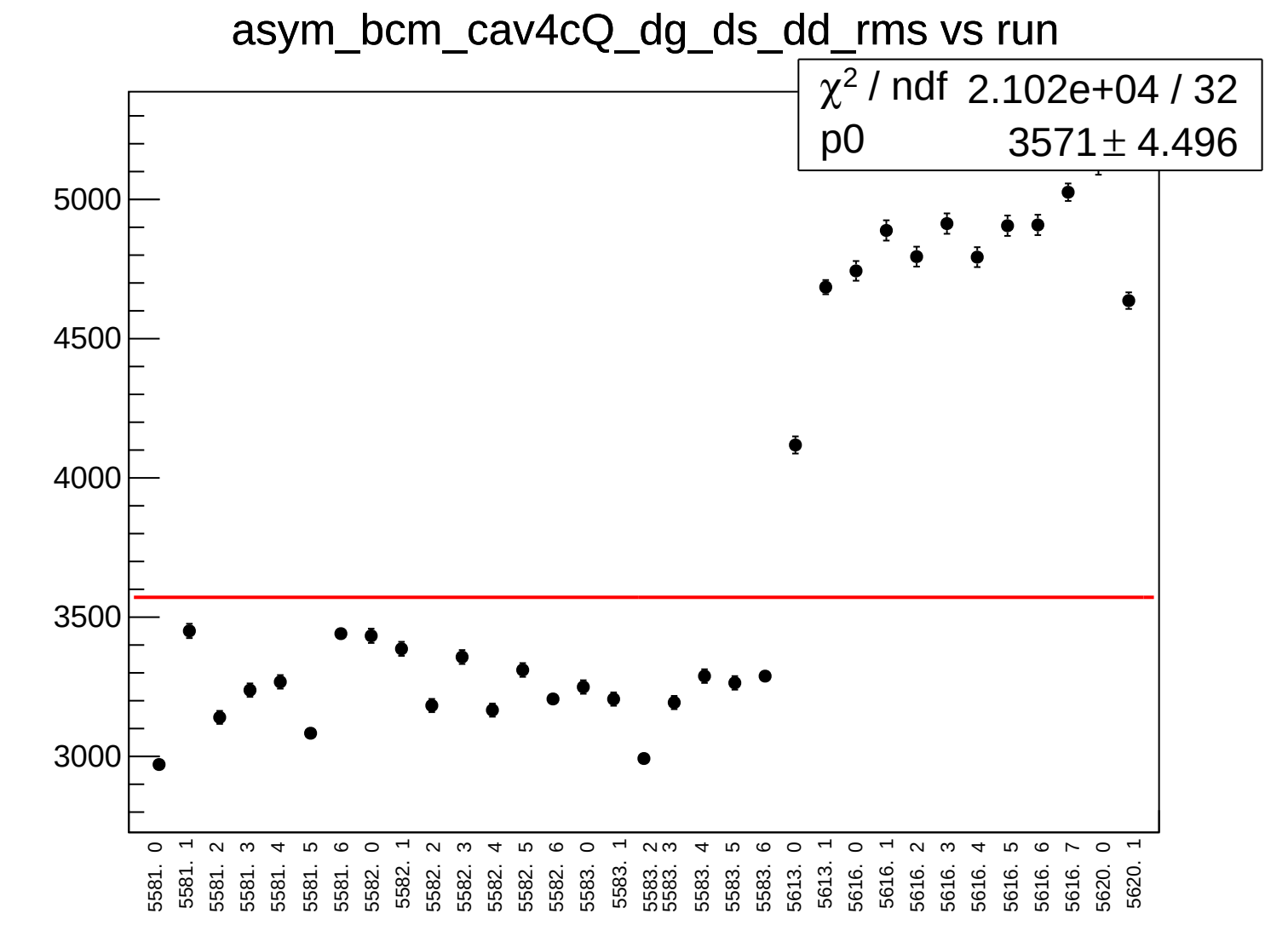

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
×10^3
χ² / ndf 35.95 / 32
p0 −6978 ± 6368
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 90
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

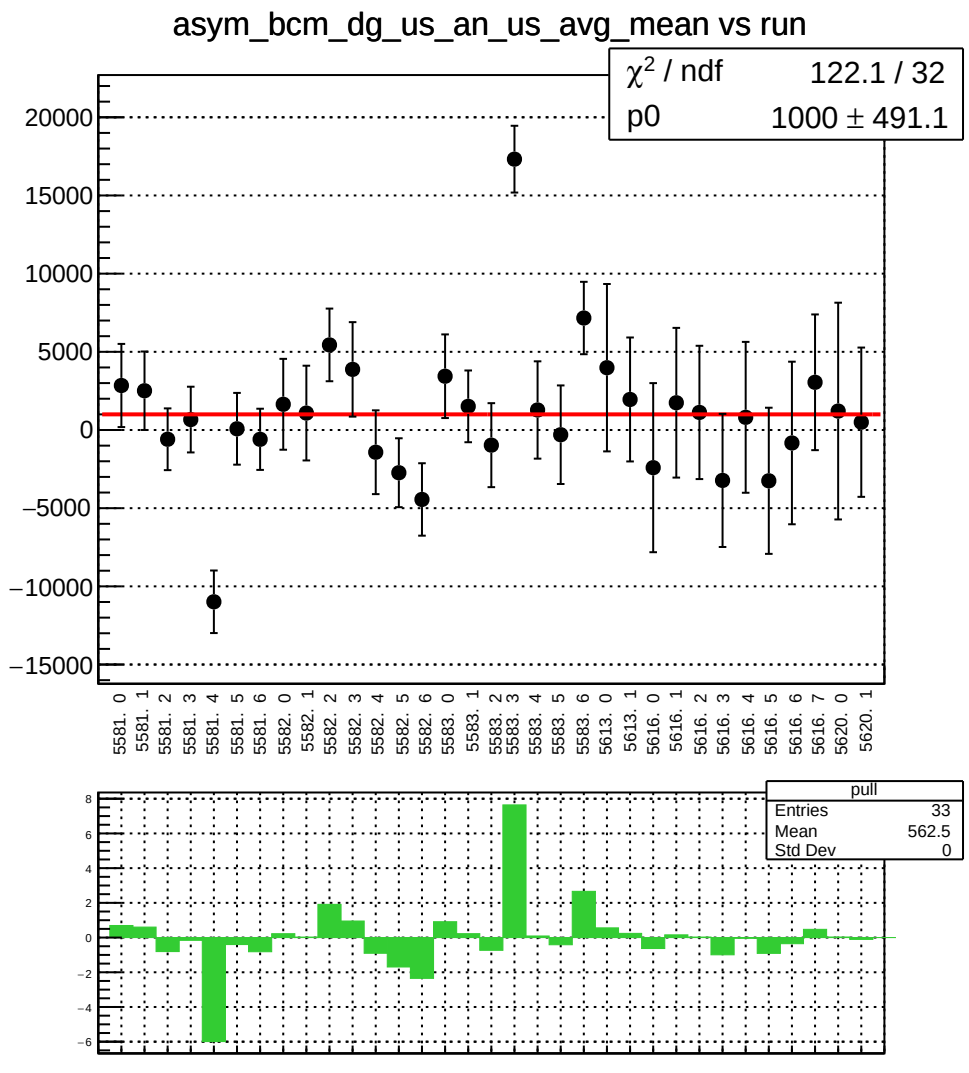

pull1D
Entries 33
Mean −0.008823
Std Dev 1.044
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

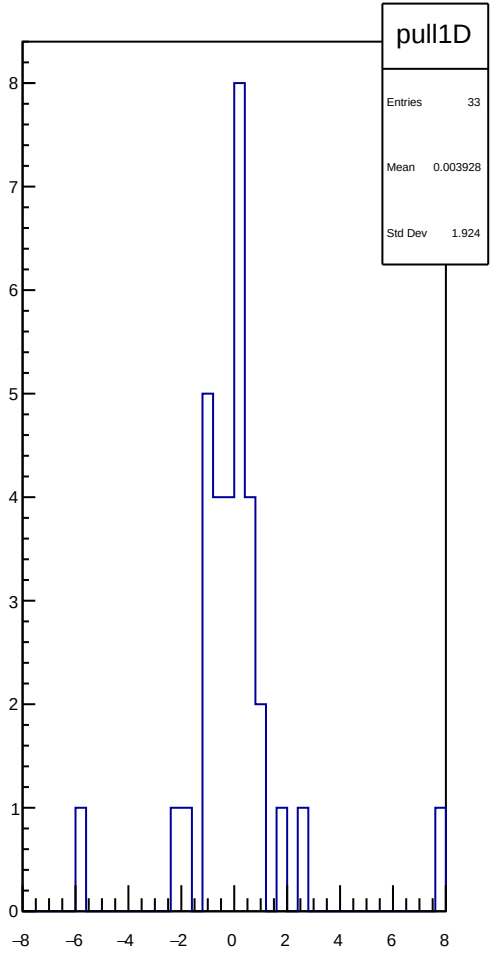

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 2.124e+04 / 32
p0 3576 ± 4.503
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

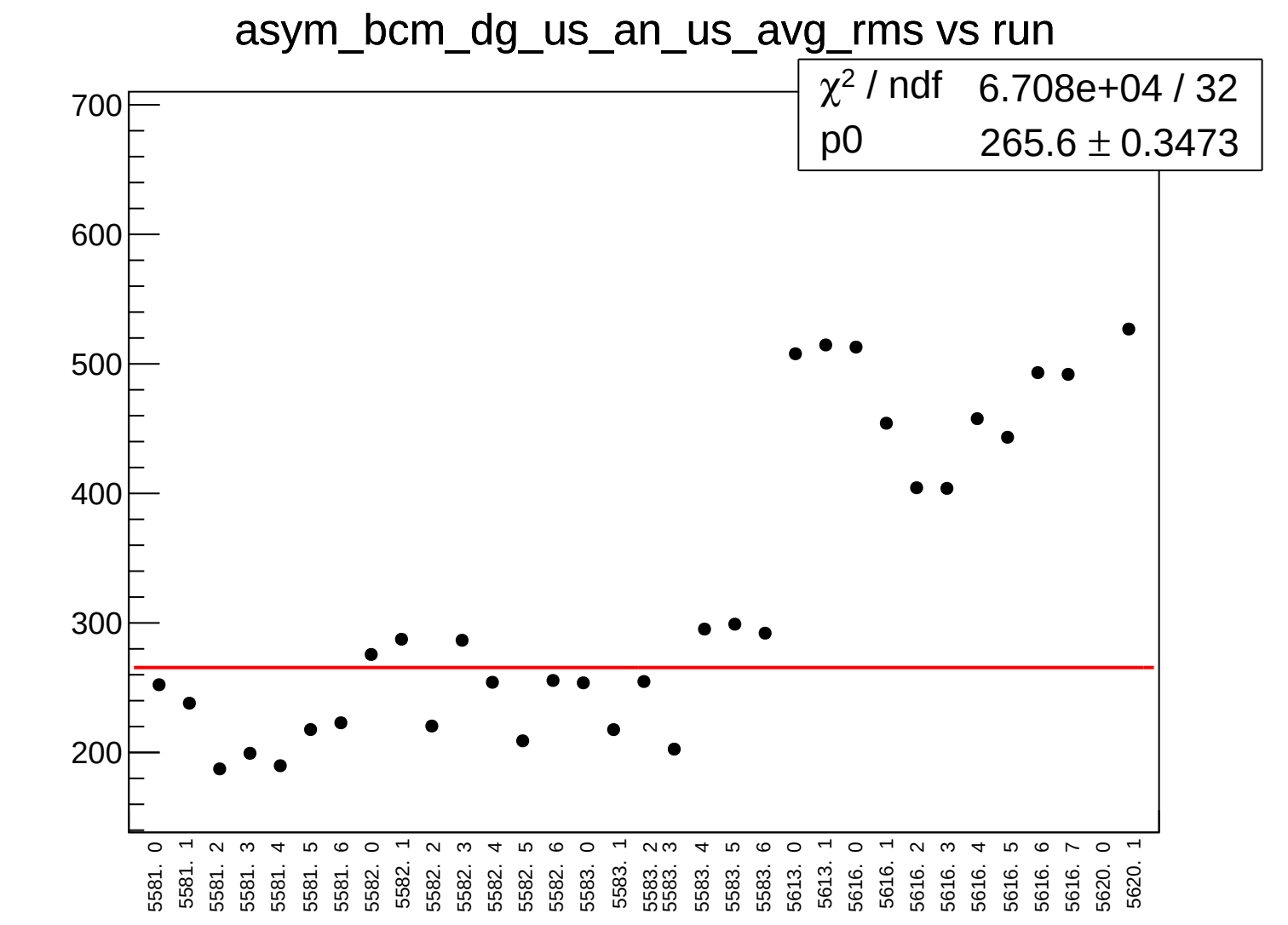

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
×10^3
χ² / ndf 37.64 / 32
p0 −8129 ± 6358
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 142.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

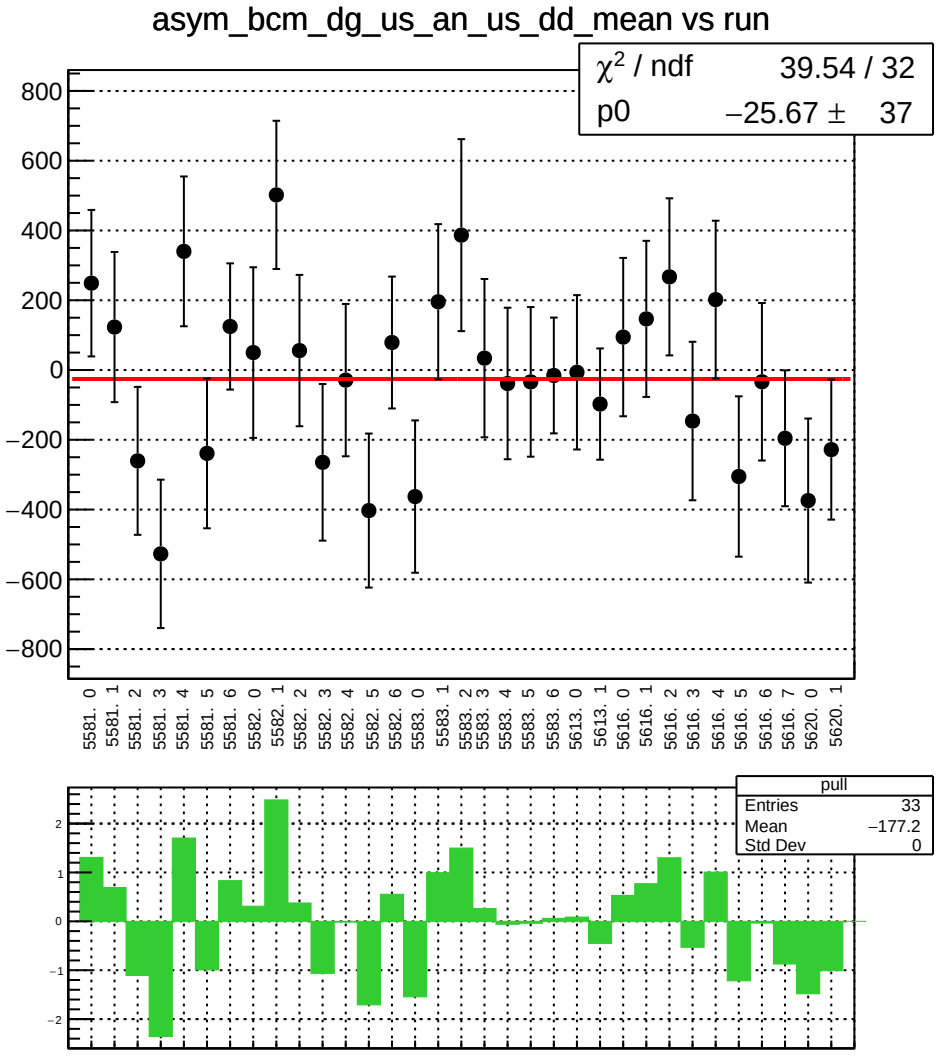

pull1D
Entries 33
Mean −0.006177
Std Dev 1.068
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

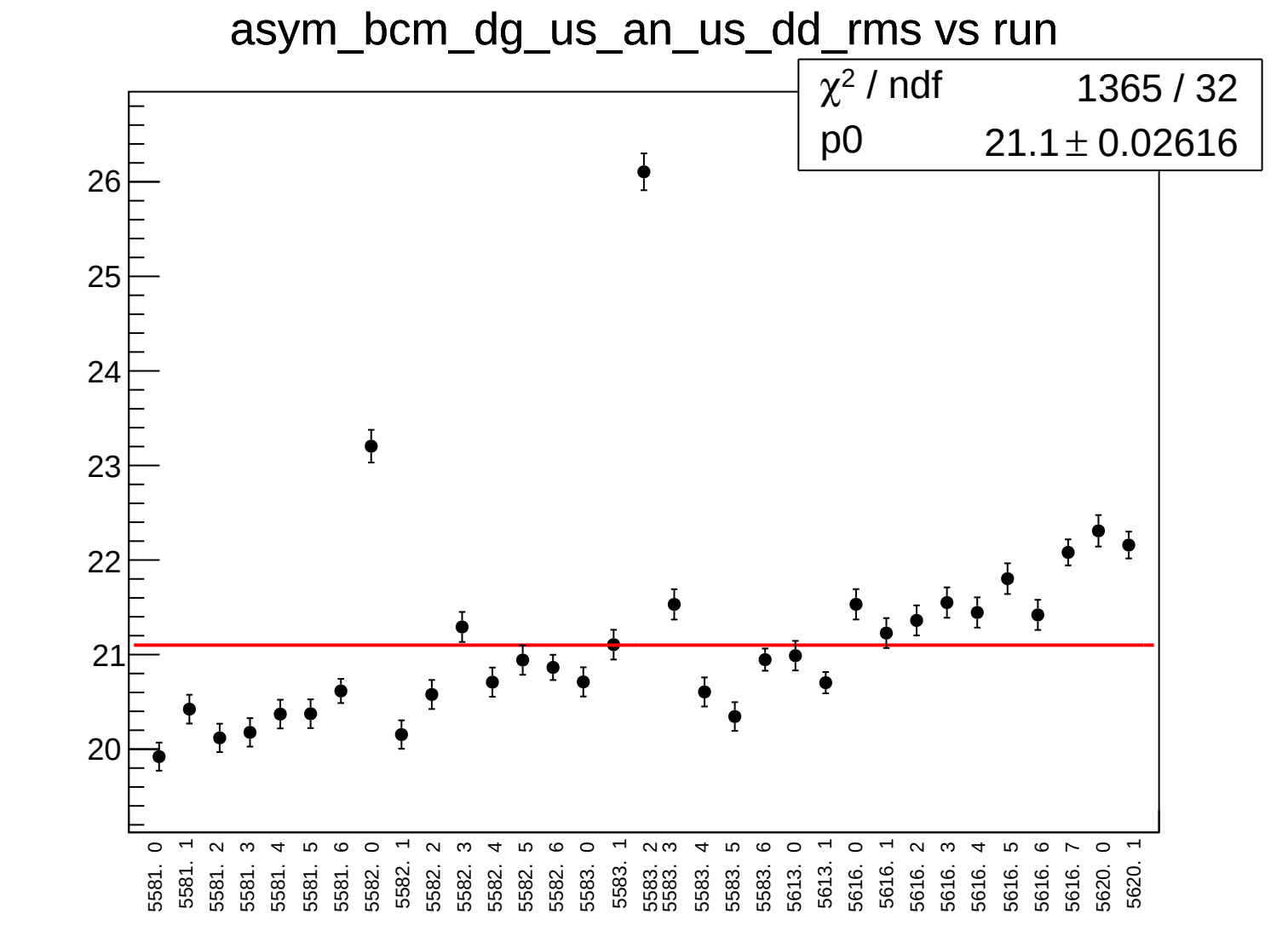

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2.102e+04 / 32
p0 3571 ± 4.496
5000
4500
4000
3500
3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

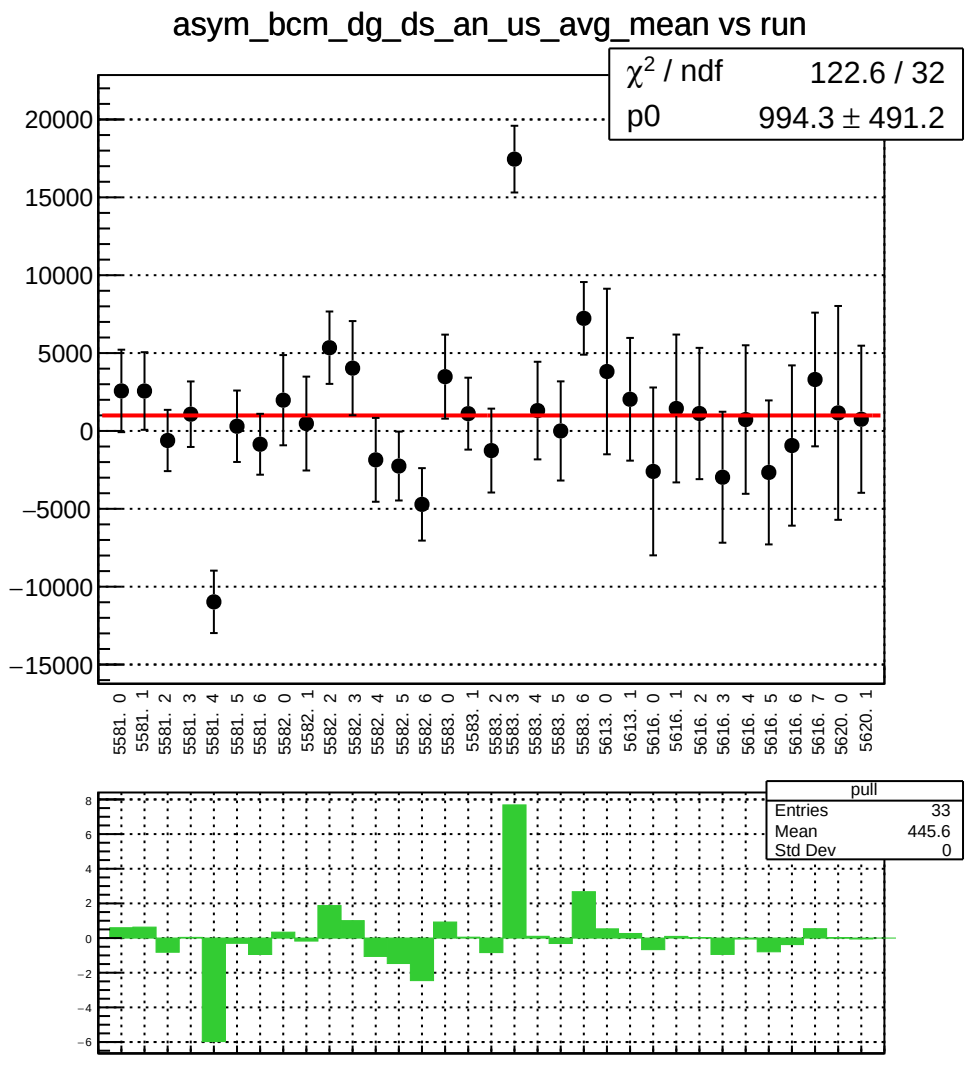

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 122.1 / 32
p0 1000 ± 491.1
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 562.5
Std Dev 0
8
6
4
2
0
−2
−4
−6

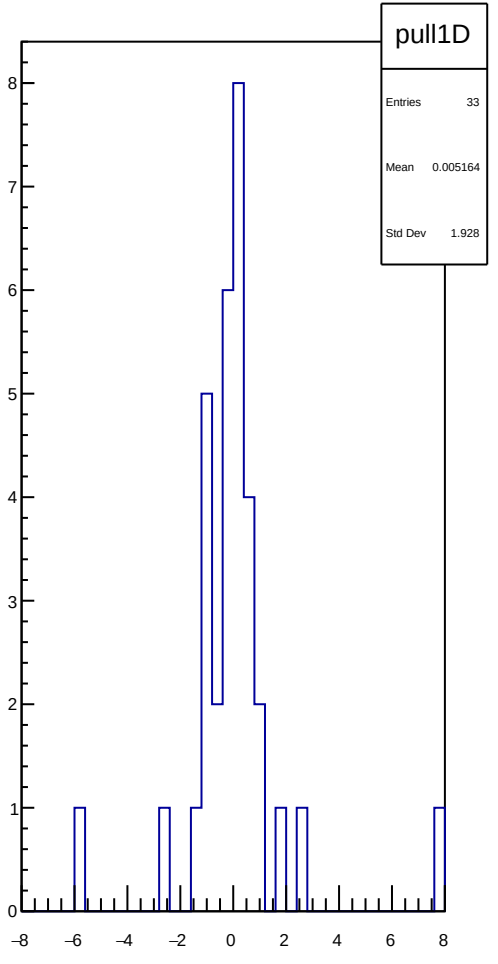

pull1D
Entries 33
Mean 0.003928
Std Dev 1.924
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

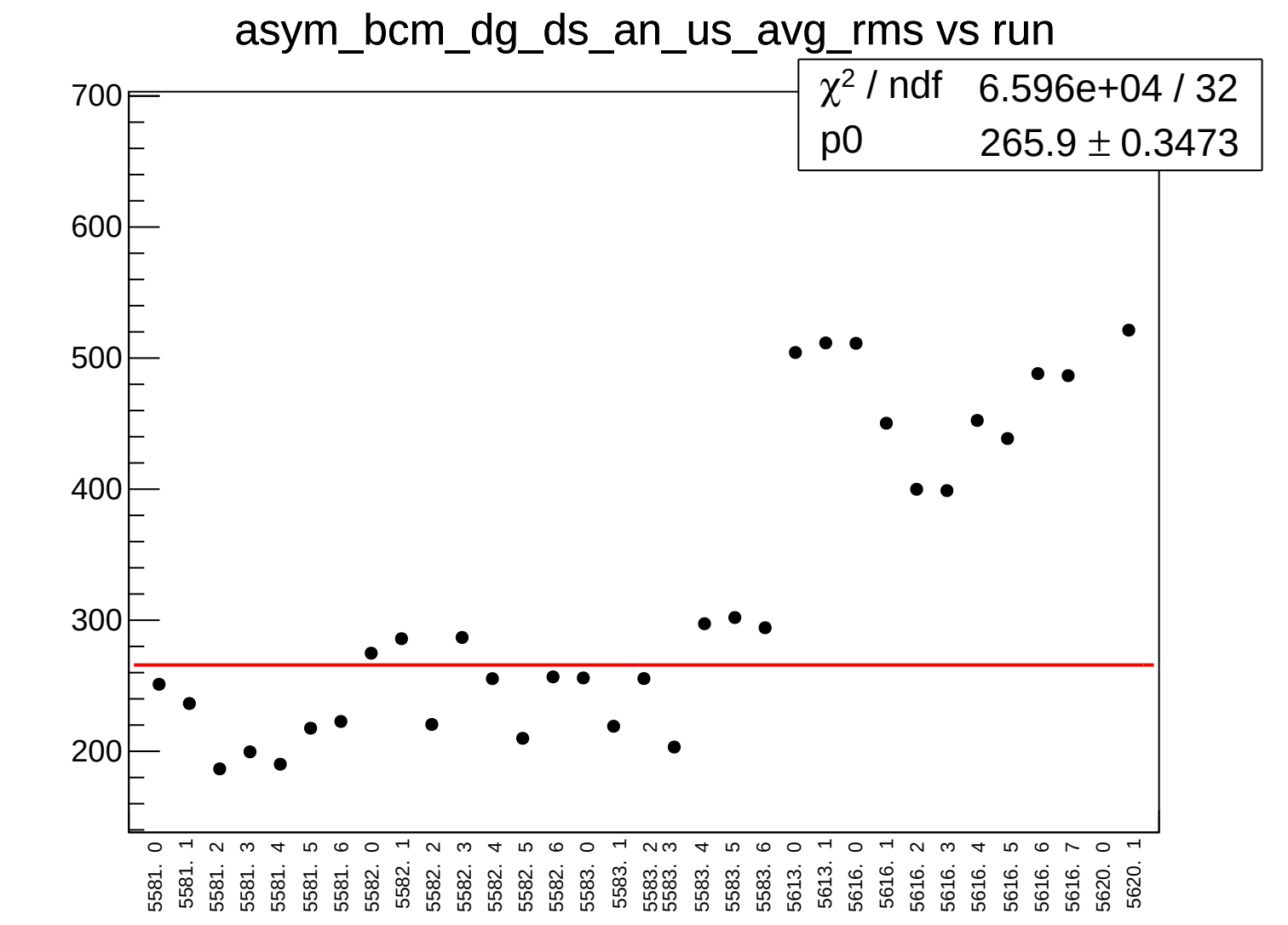

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 6.708e+04 / 32
p0 265.6 ± 0.3473
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

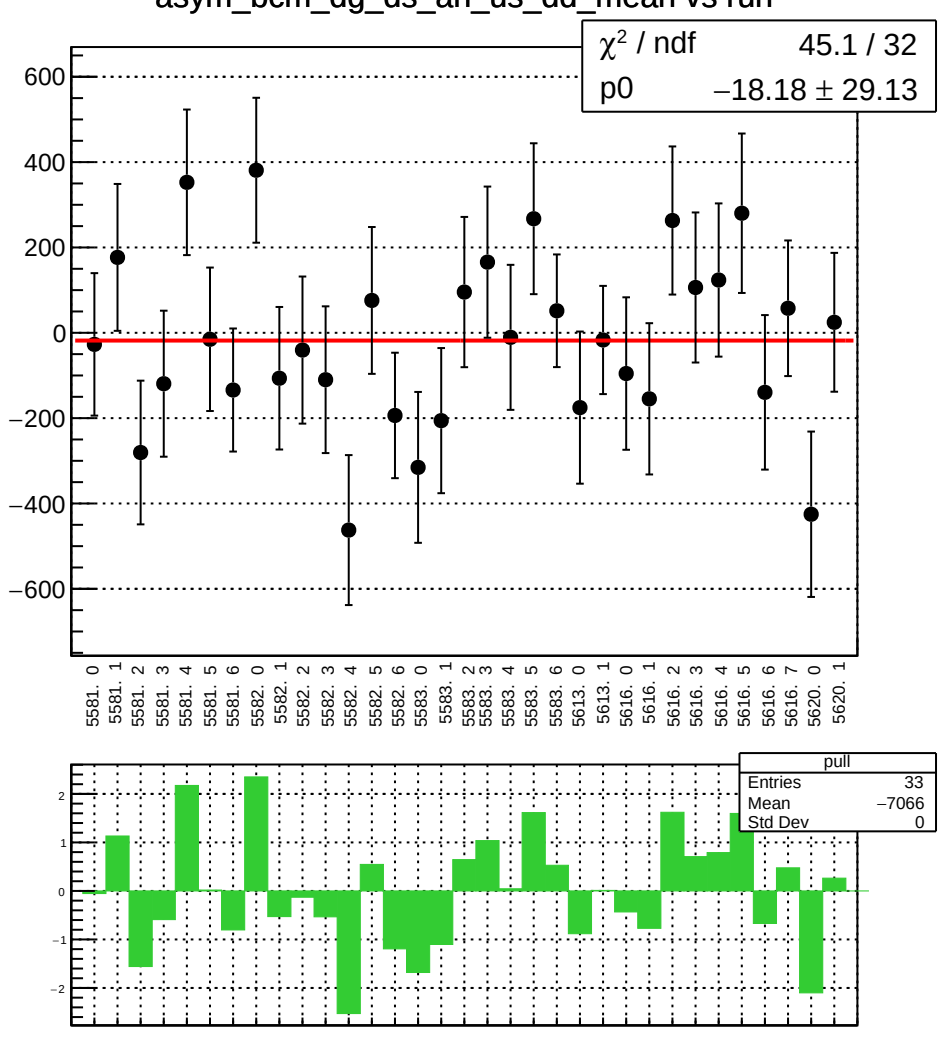

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 39.54 / 32
p0 −25.67 ± 37
800
600
400
200
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −177.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.008581
Std Dev 1.095
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

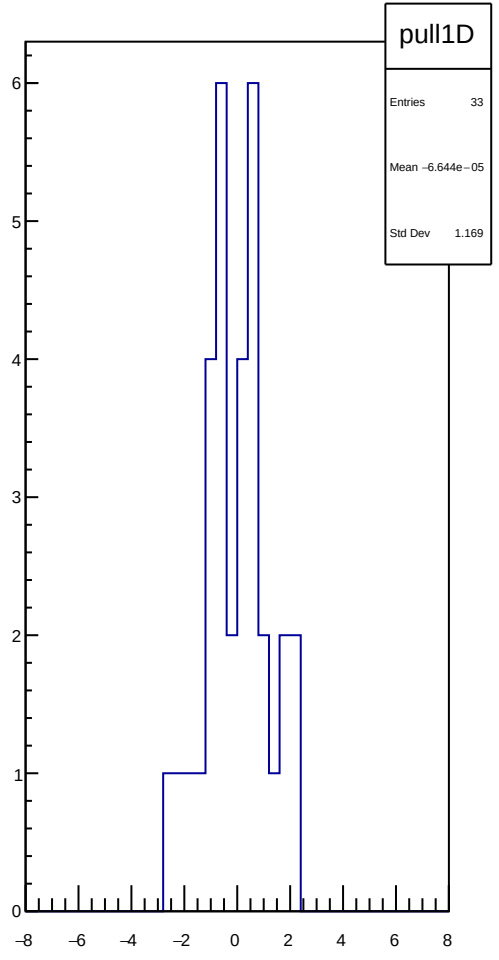

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1365 / 32
p0 21.1 ± 0.02616
26
25
24
23
22
21
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

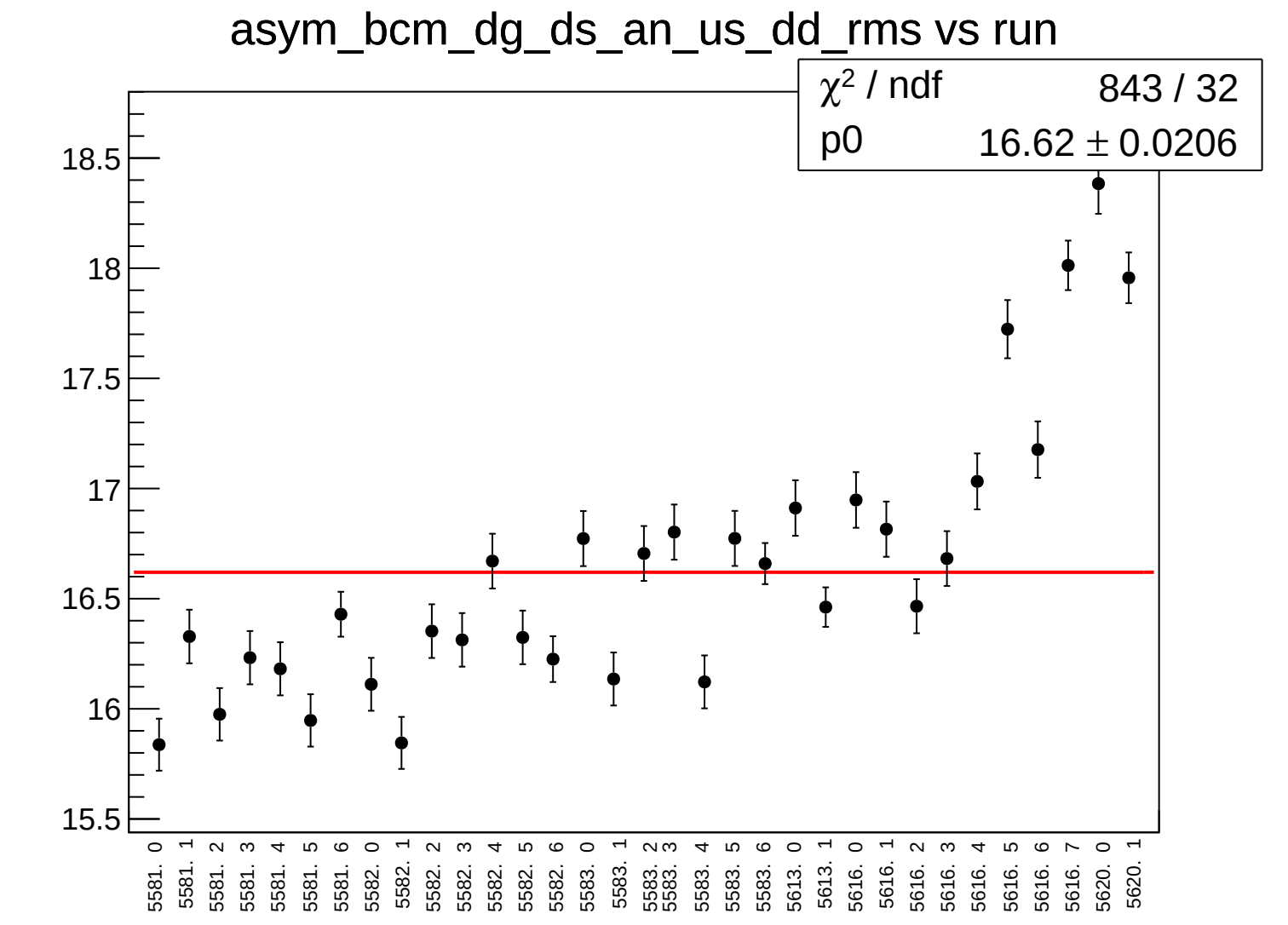

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 122.6 / 32
p0 994.3 ± 491.2
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 445.6
Std Dev 0
8
6
4
2
0
−2
−4
−6

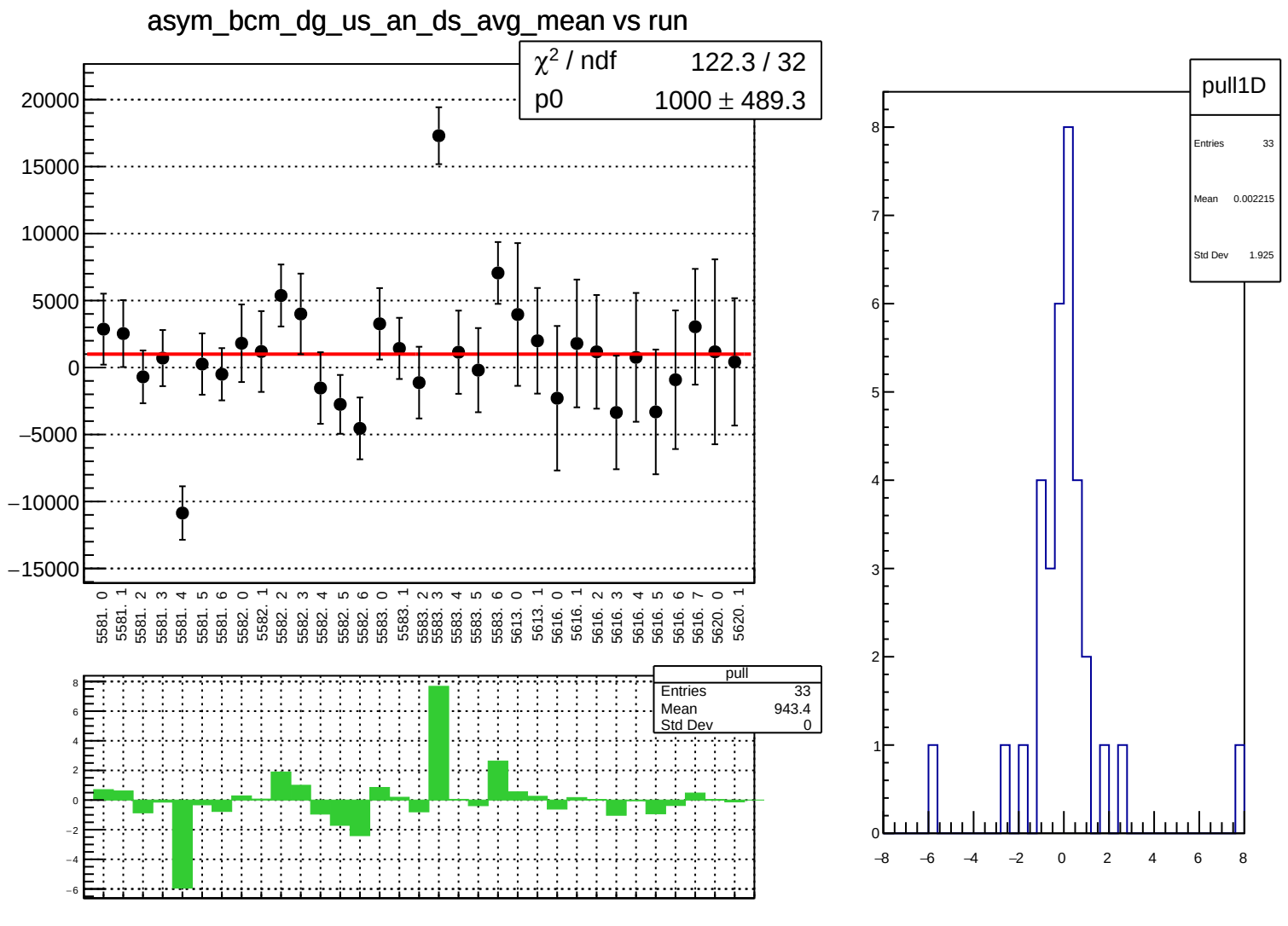

pull1D
Entries 33
Mean 0.005164
Std Dev 1.928
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

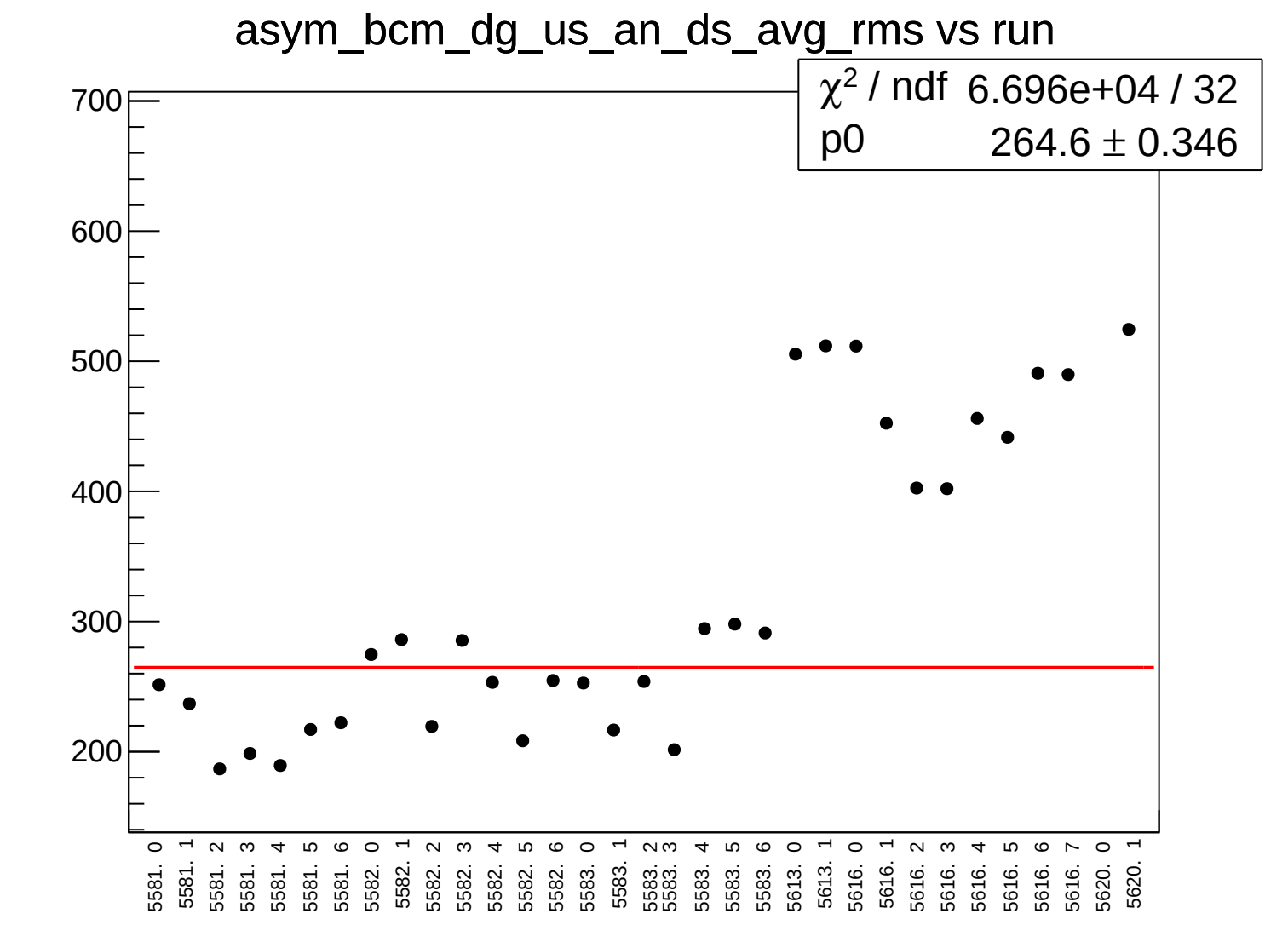

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 6.596e+04 / 32
p0 265.9 ± 0.3473
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

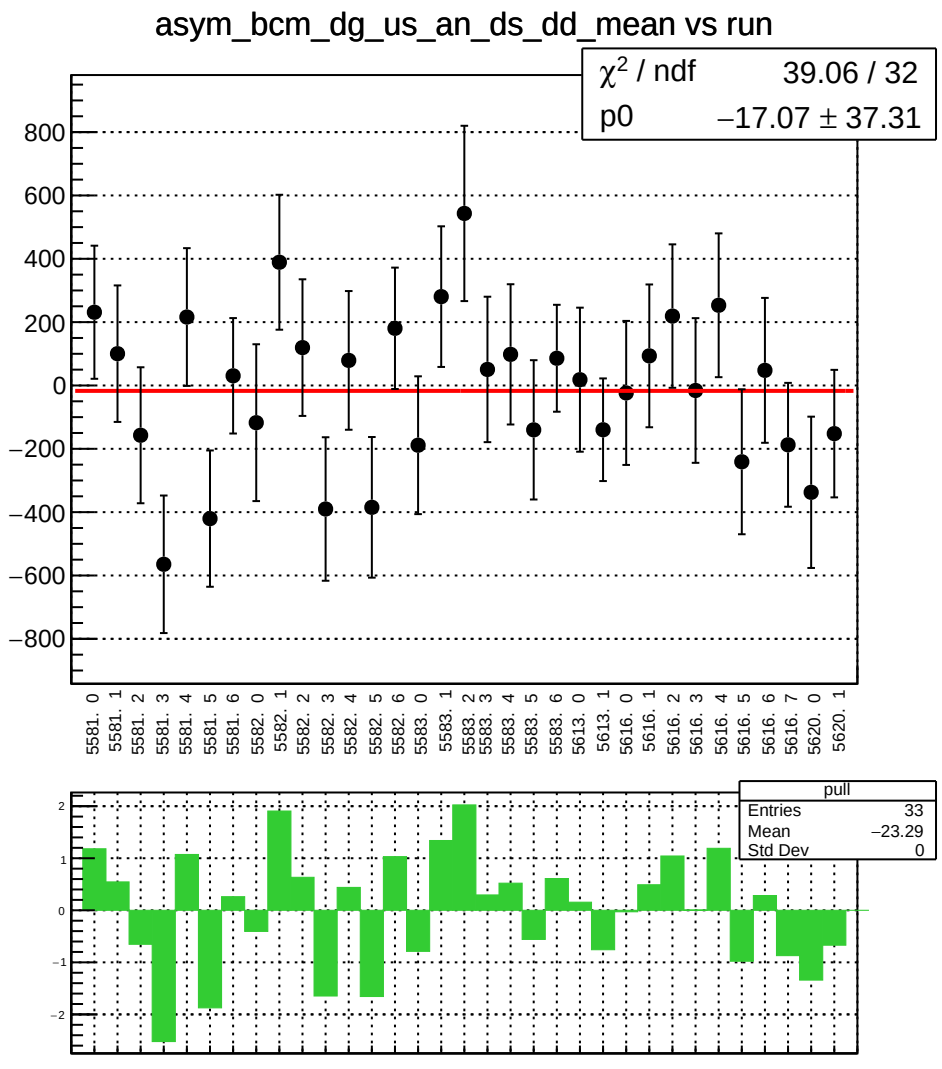

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 45.1 / 32
p0 −18.18 ± 29.13
600
400
200
0
−200
−400
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −7066
Std Dev 0
2
1
0
−1
−2

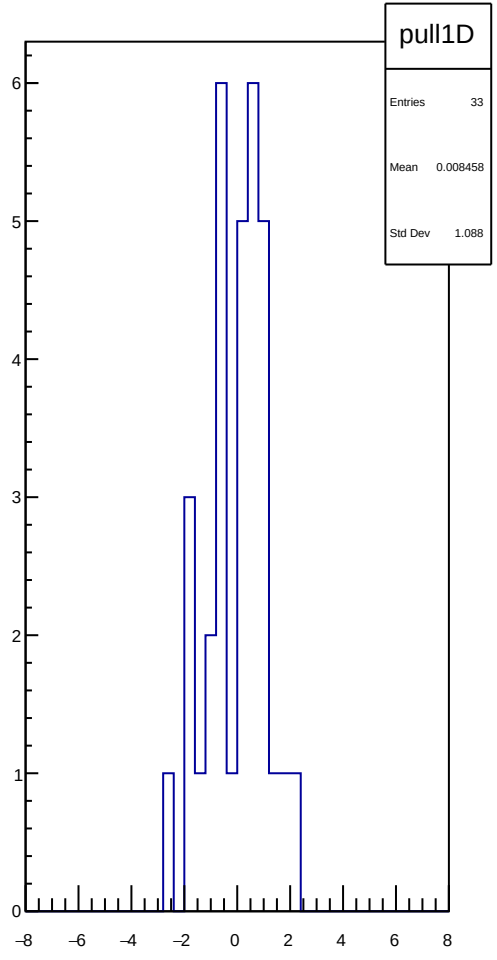

pull1D
Entries 33
Mean −6.644e−05
Std Dev 1.169
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

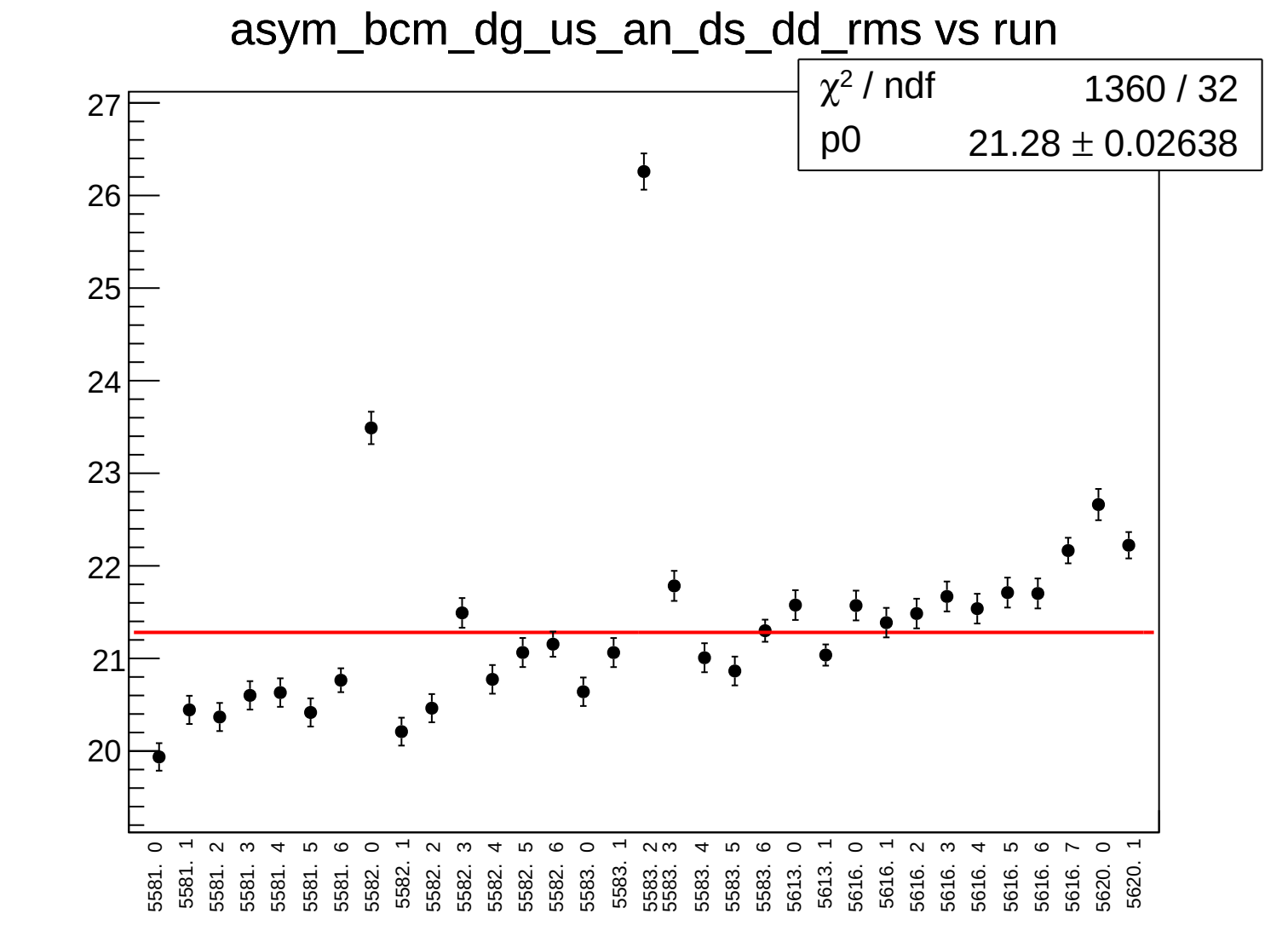

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 843 / 32
p0 16.62 ± 0.0206
18.5
18
17.5
17
16.5
16
15.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

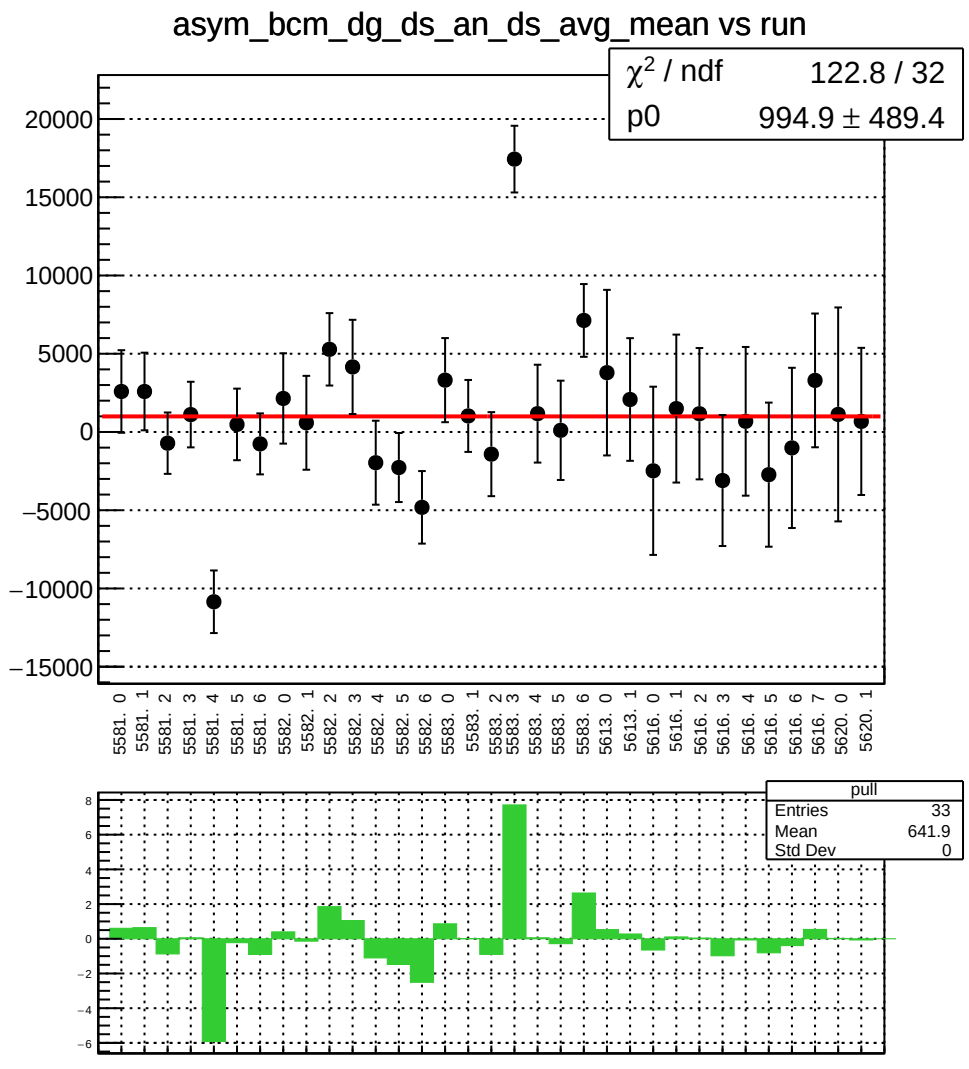

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 122.3 / 32
p0 1000 ± 489.3
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 943.4
Std Dev 0
8
6
4
2
0
−2
−4
−6
pull1D
Entries 33
Mean 0.002215
Std Dev 1.925
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

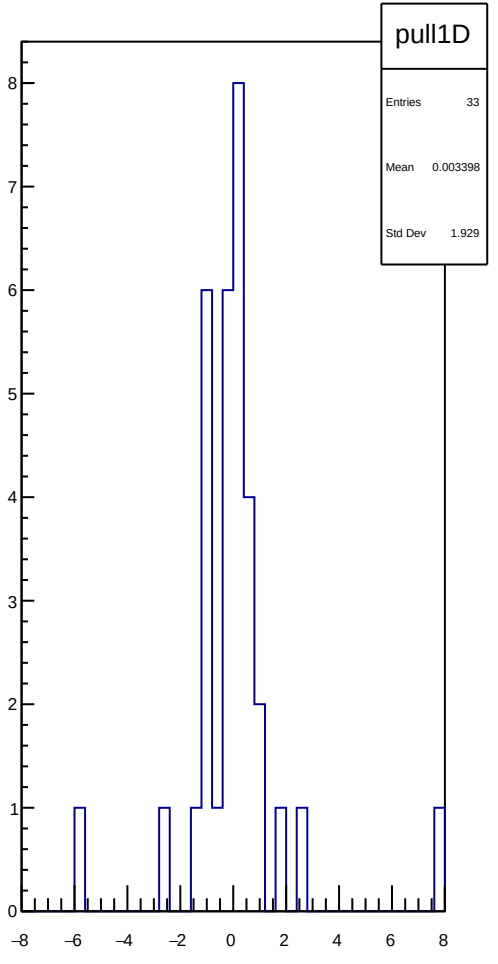

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 6.696e+04 / 32
p0 264.6 ± 0.346
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

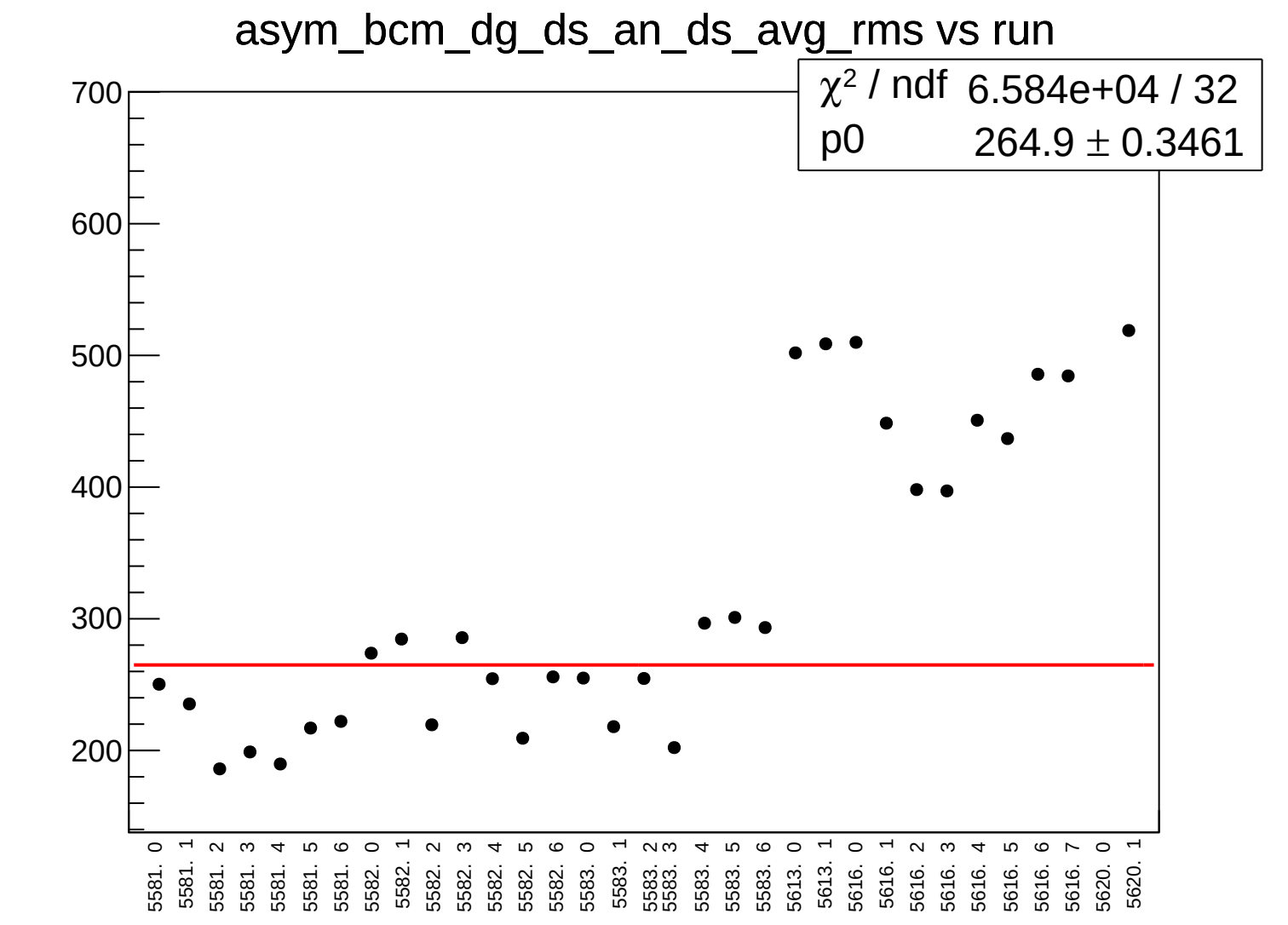

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 39.06 / 32
p0 −17.07 ± 37.31
800
600
400
200
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −23.29
Std Dev 0
2
1
0
−1
−2

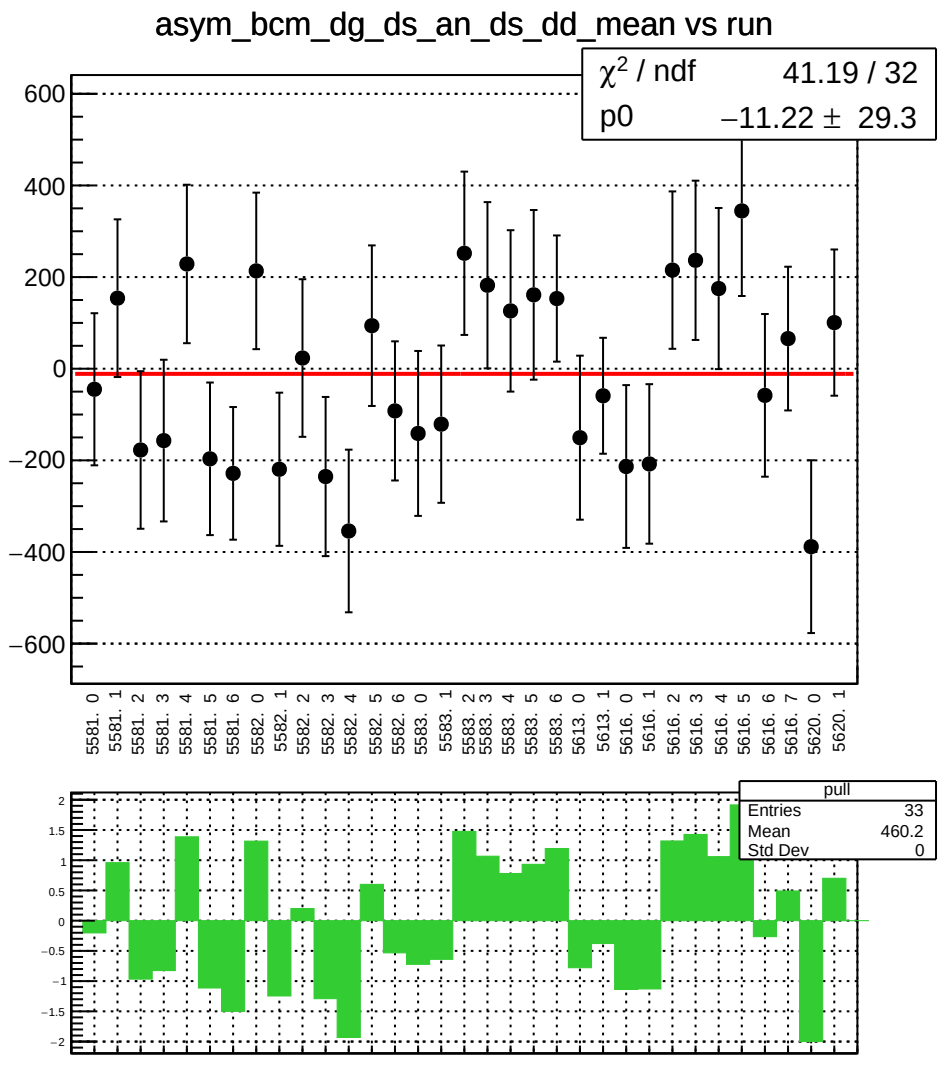

pull1D
Entries 33
Mean 0.008458
Std Dev 1.088
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

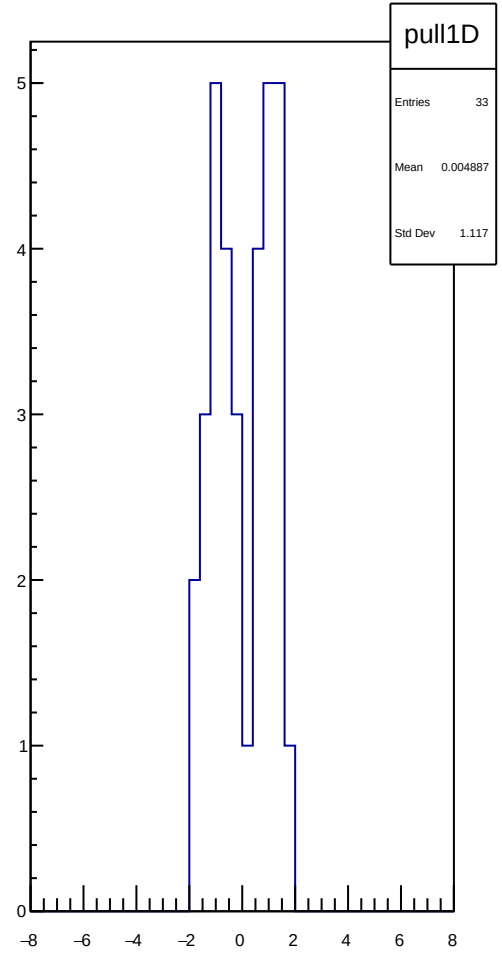

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 1360 / 32
p0 21.28 ± 0.02638
27
26
25
24
23
22
21
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

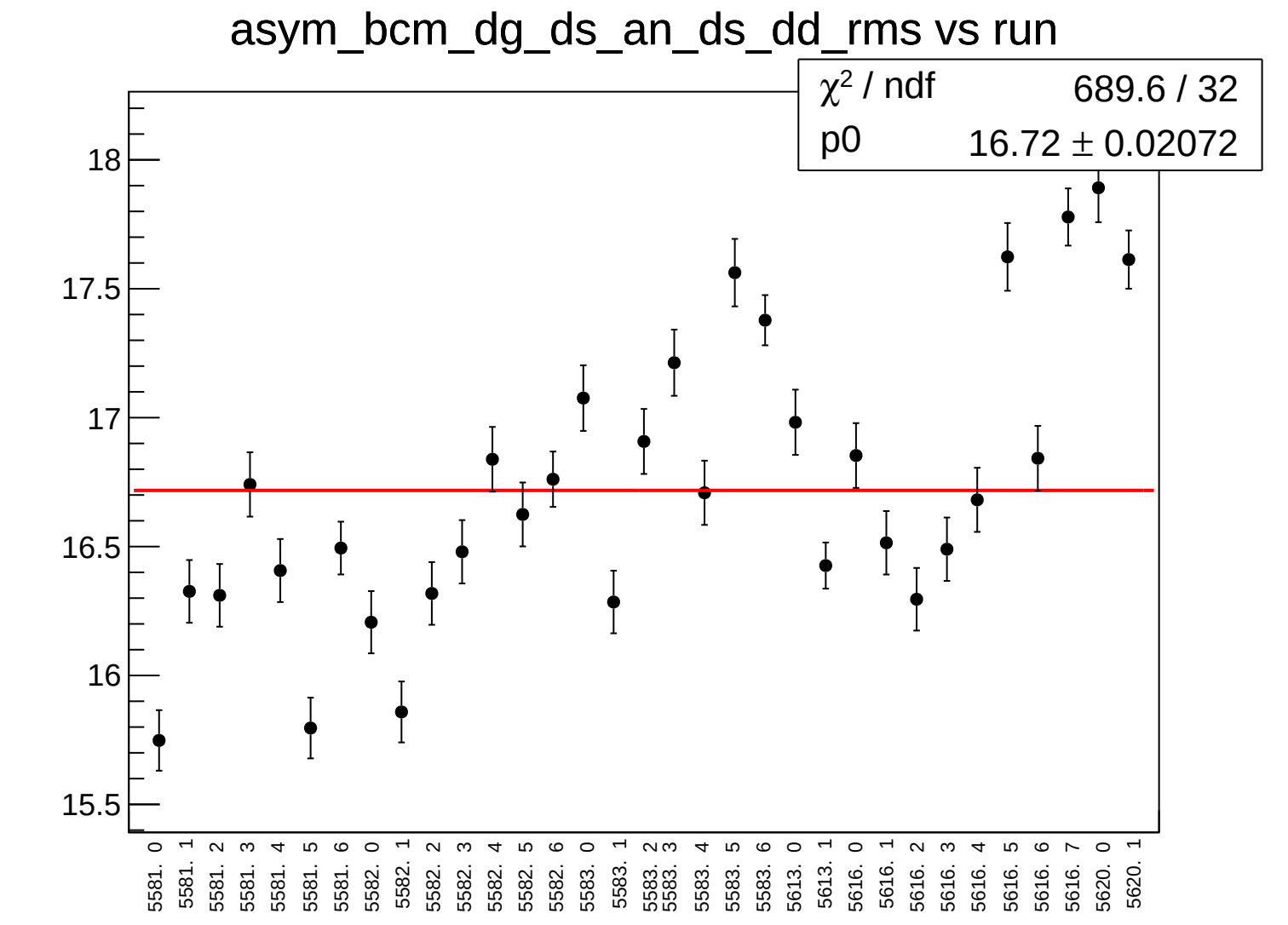

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 122.8 / 32
p0 994.9 ± 489.4
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 641.9
Std Dev 0
8
6
4
2
0
−2
−4
−6

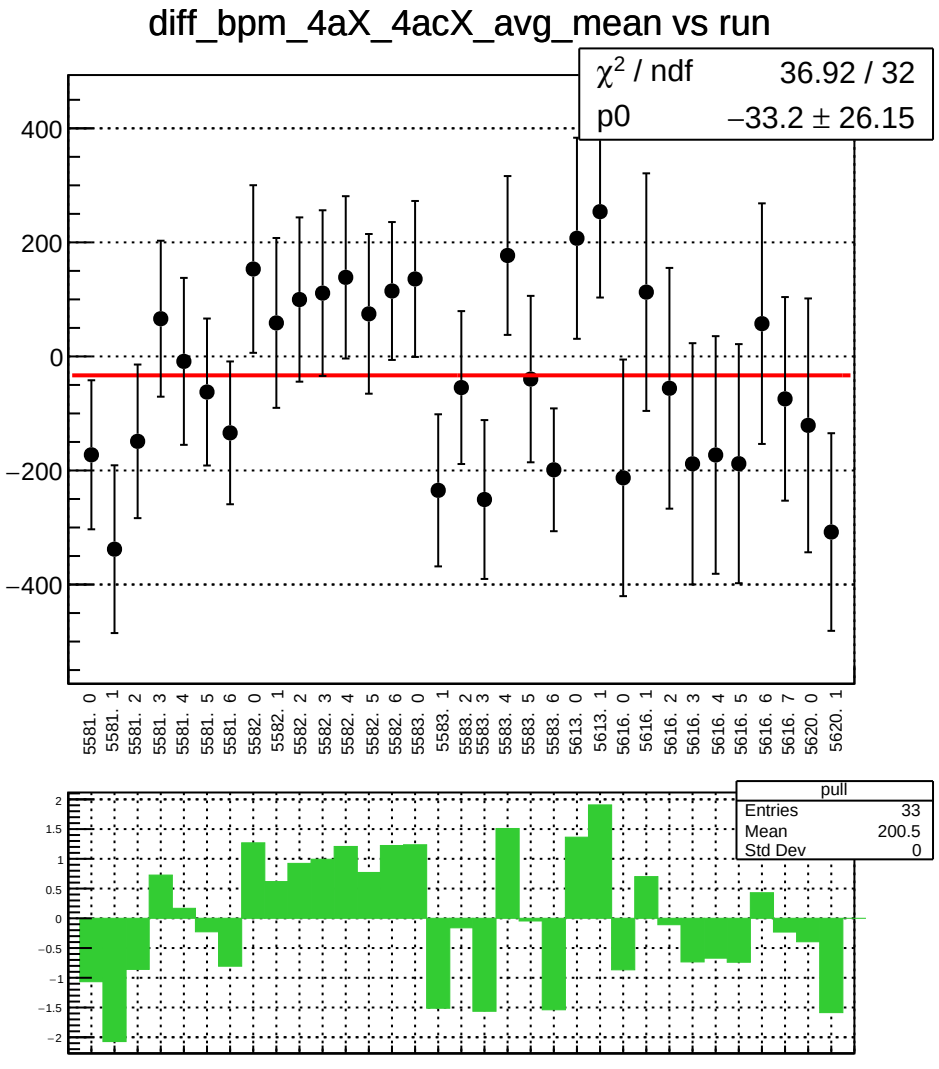

pull1D
Entries 33
Mean 0.003398
Std Dev 1.929
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

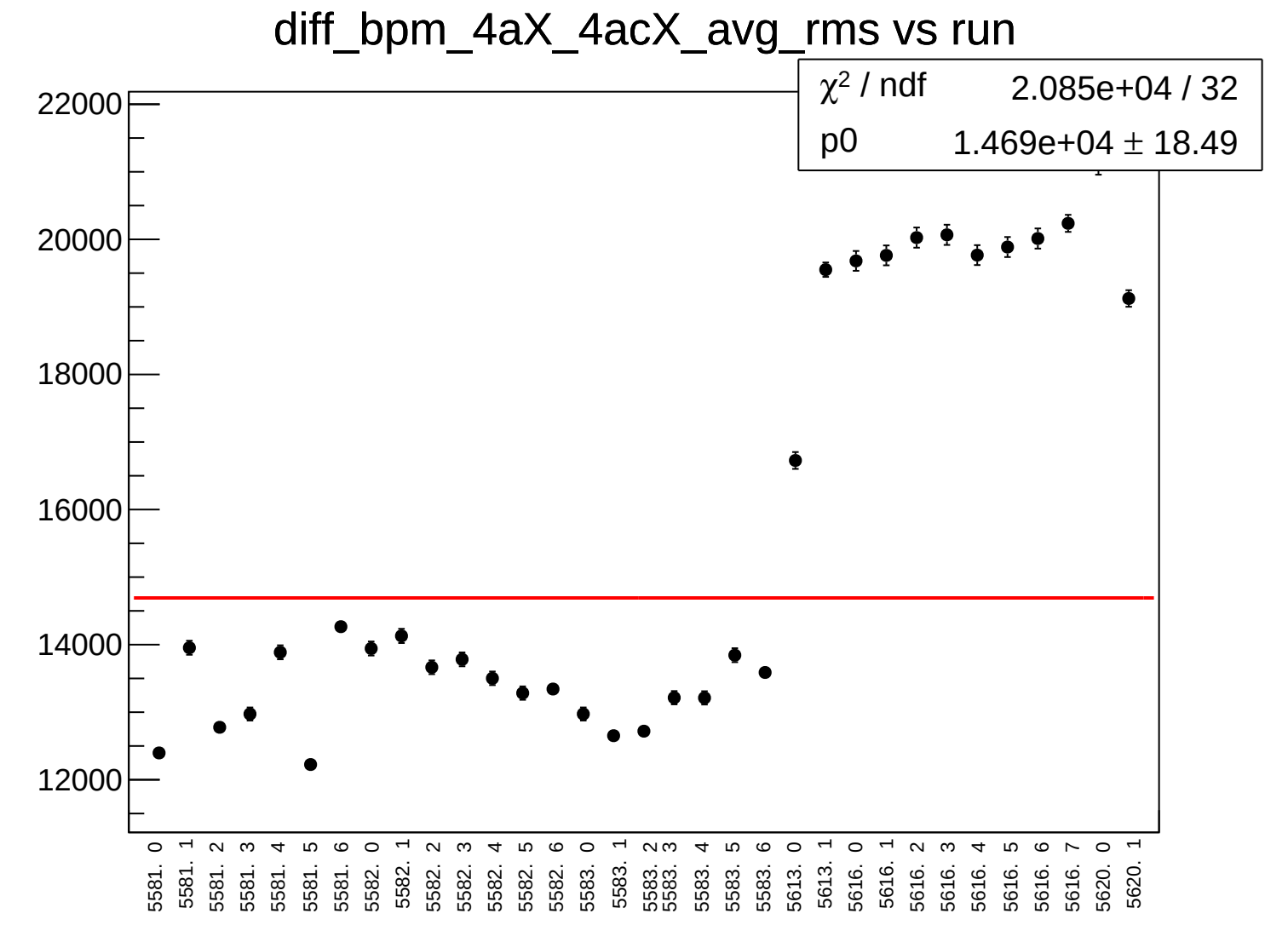

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 6.584e+04 / 32
p0 264.9 ± 0.3461
700
600
500
400
300
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

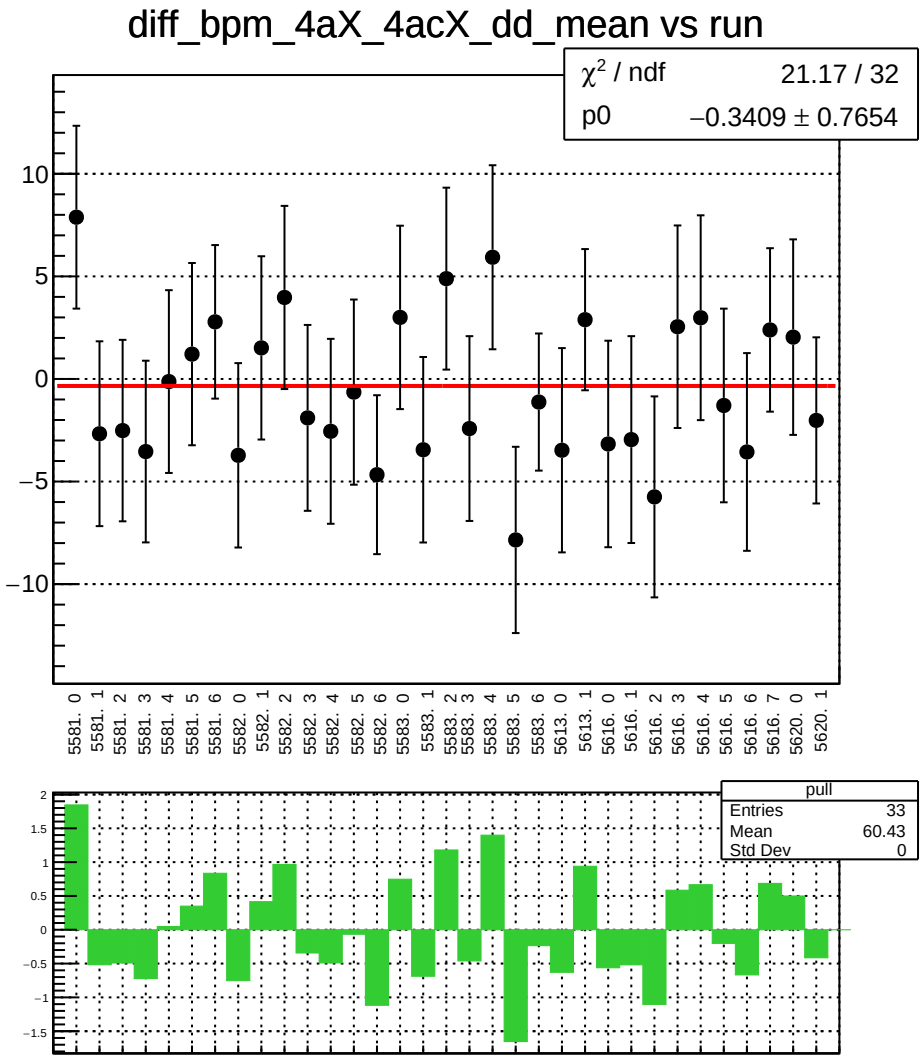

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 41.19 / 32
p0 −11.22 ± 29.3
600
400
200
0
−200
−400
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 460.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

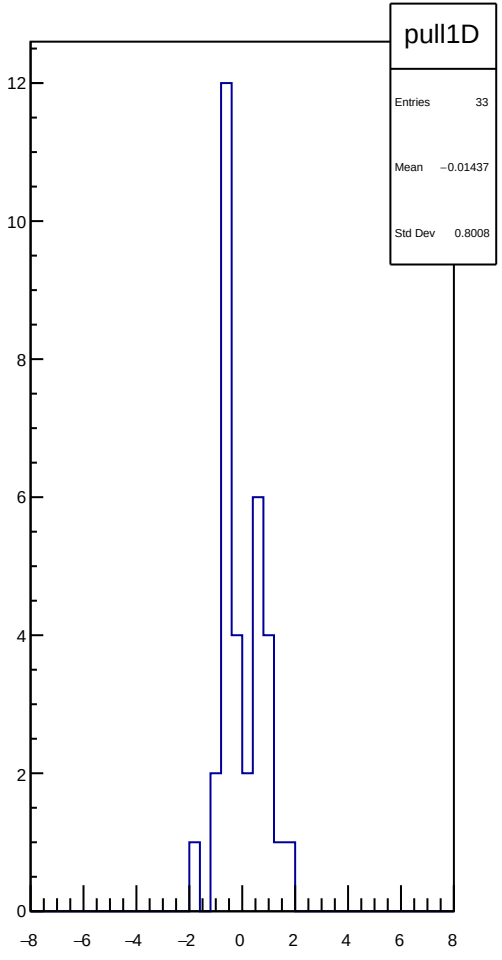

pull1D
Entries 33
Mean 0.004887
Std Dev 1.117
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

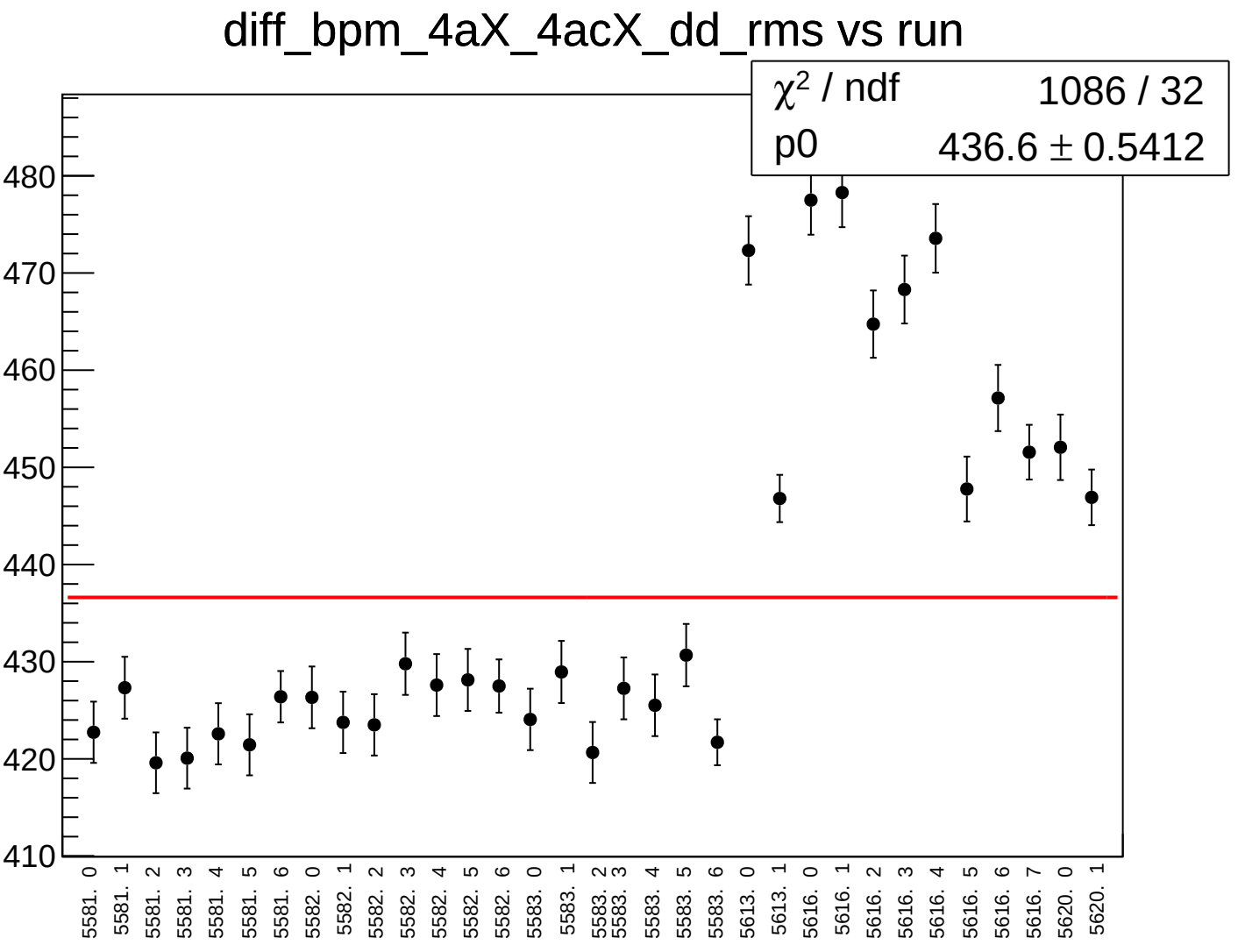

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 689.6 / 32
p0 16.72 ± 0.02072
18
17.5
17
16.5
16
15.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

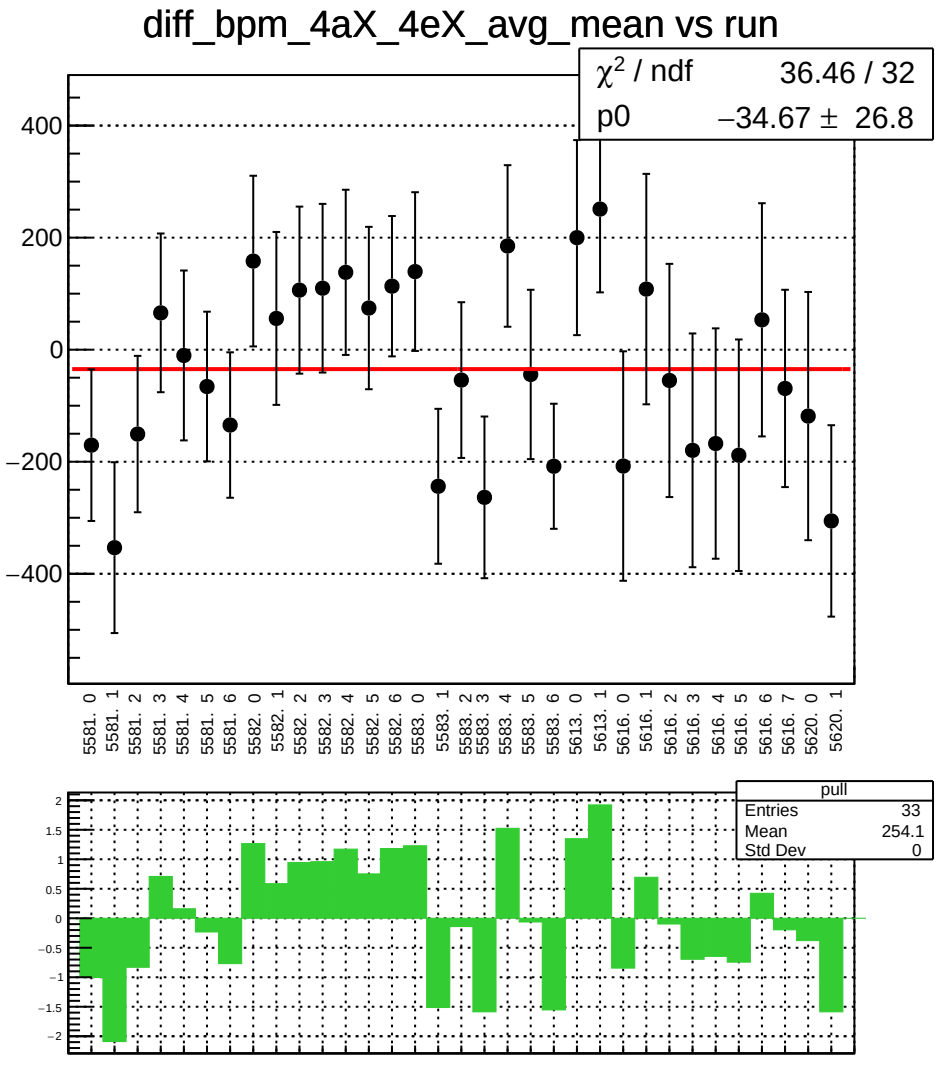

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 36.92 / 32
p0 −33.2 ± 26.15
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 200.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.003914
Std Dev 1.058
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

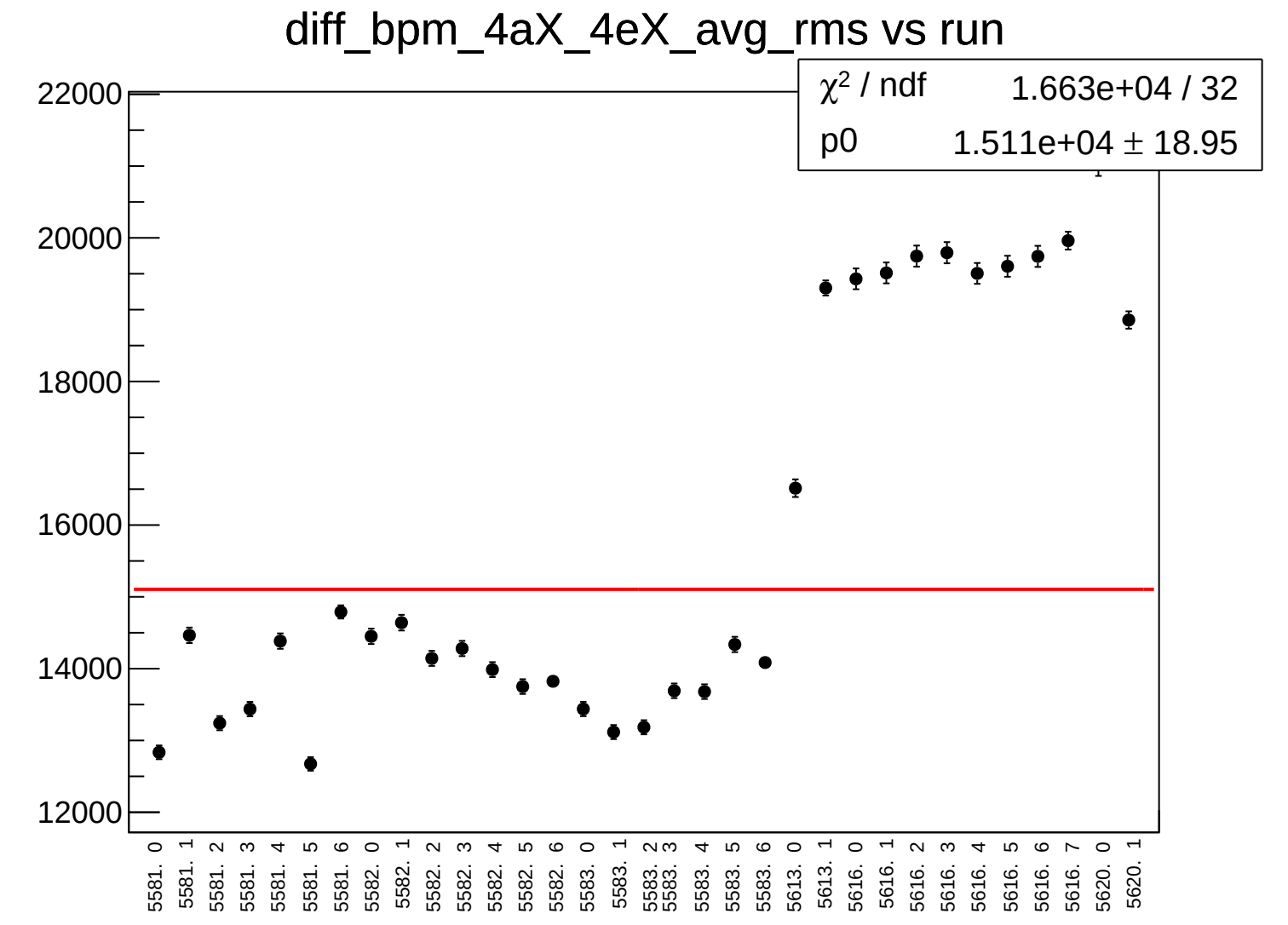

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2.085e+04 / 32
p0 1.469e+04 ± 18.49
22000
20000
18000
16000
14000
12000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

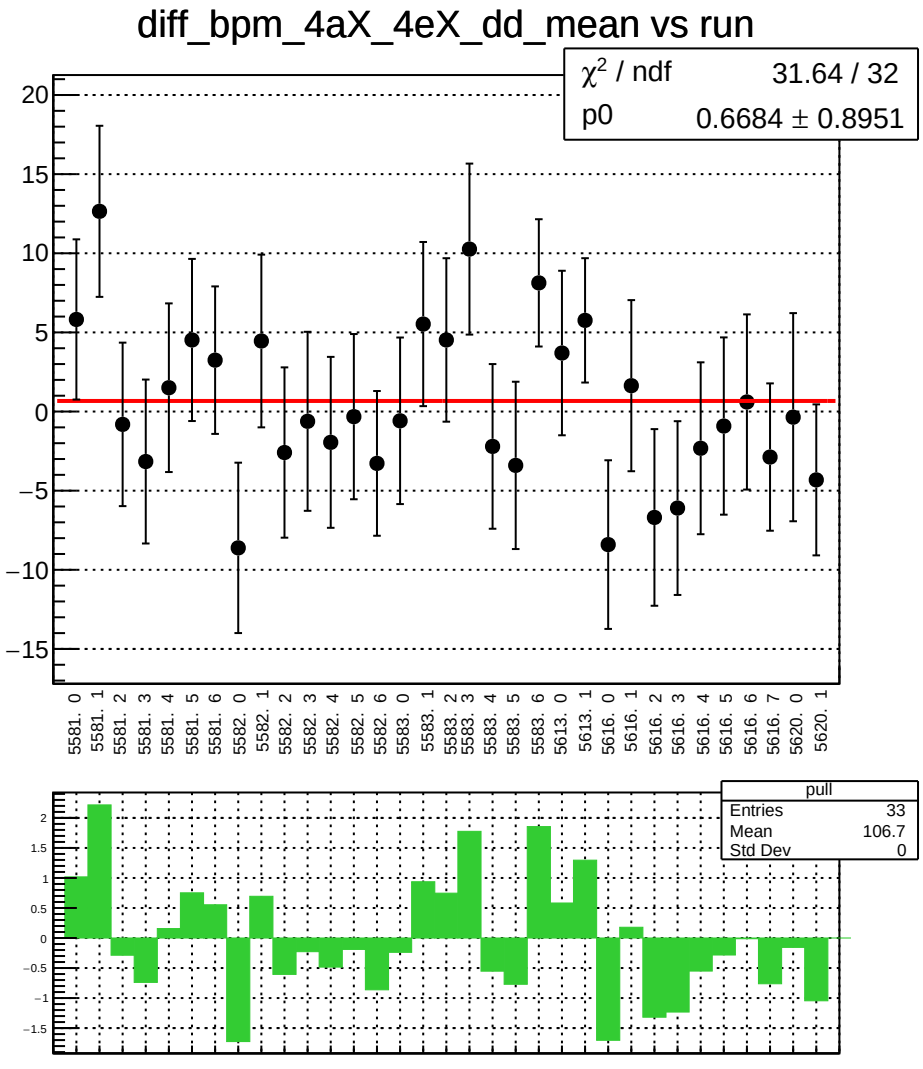

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 21.17 / 32
p0 −0.3409 ± 0.7654
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 60.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

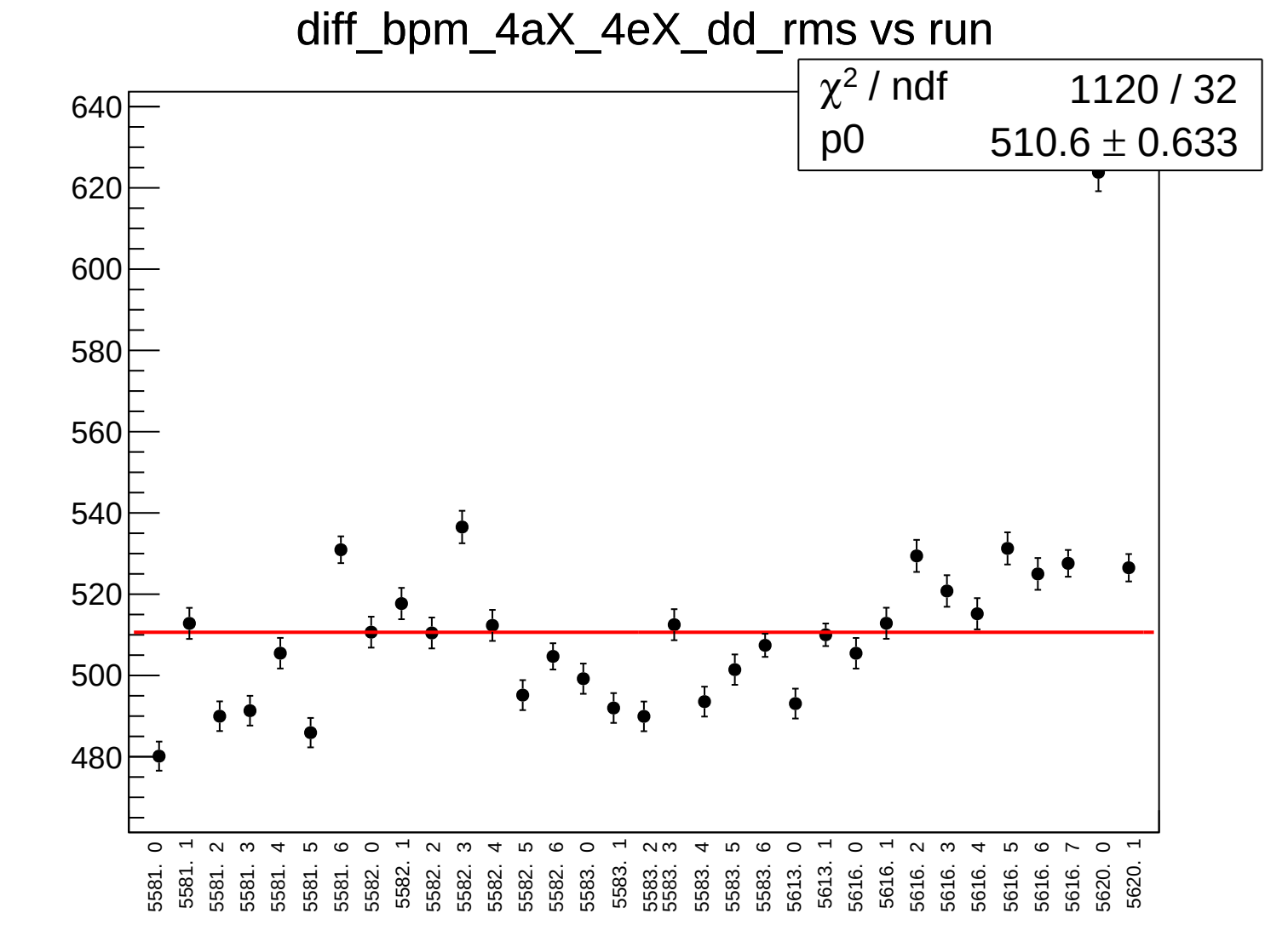

pull1D
Entries 33
Mean −0.01437
Std Dev 0.8008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

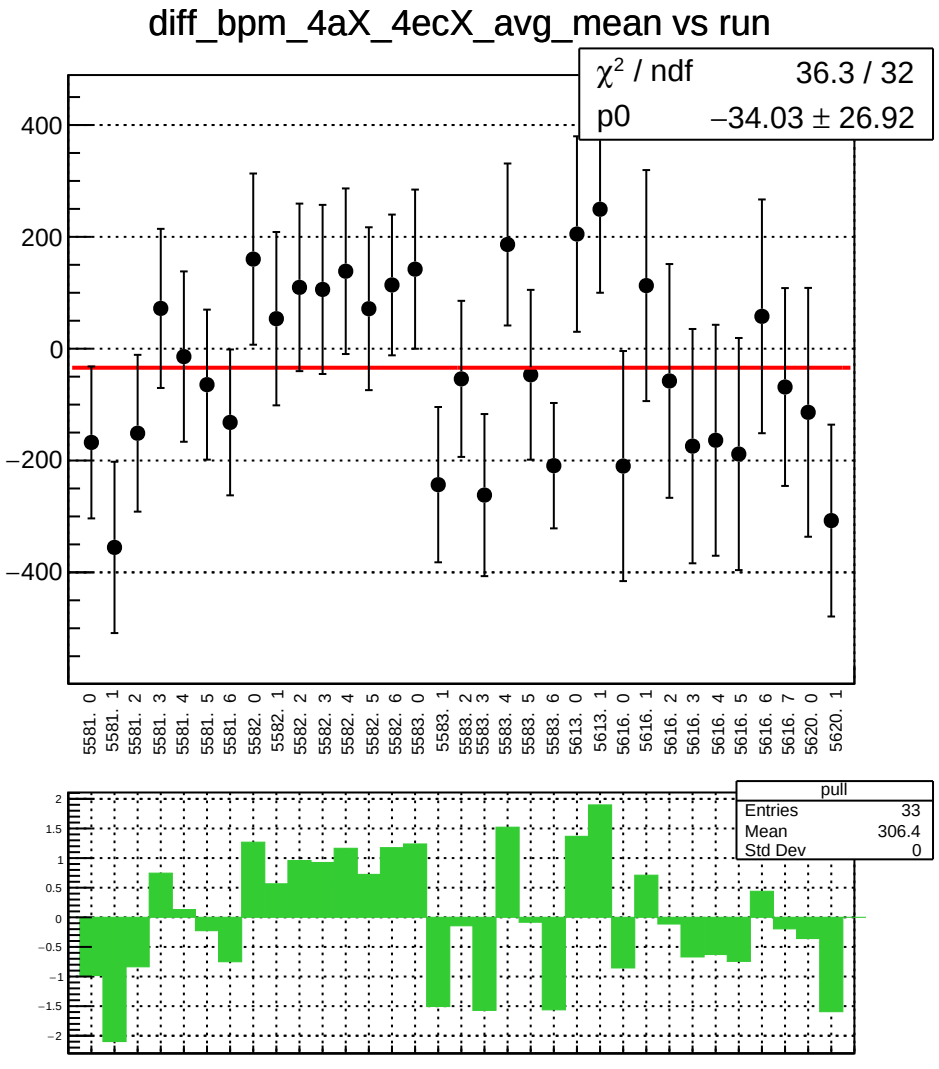

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 1086 / 32
p0 436.6 ± 0.5412
480
470
460
450
440
430
420
410
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

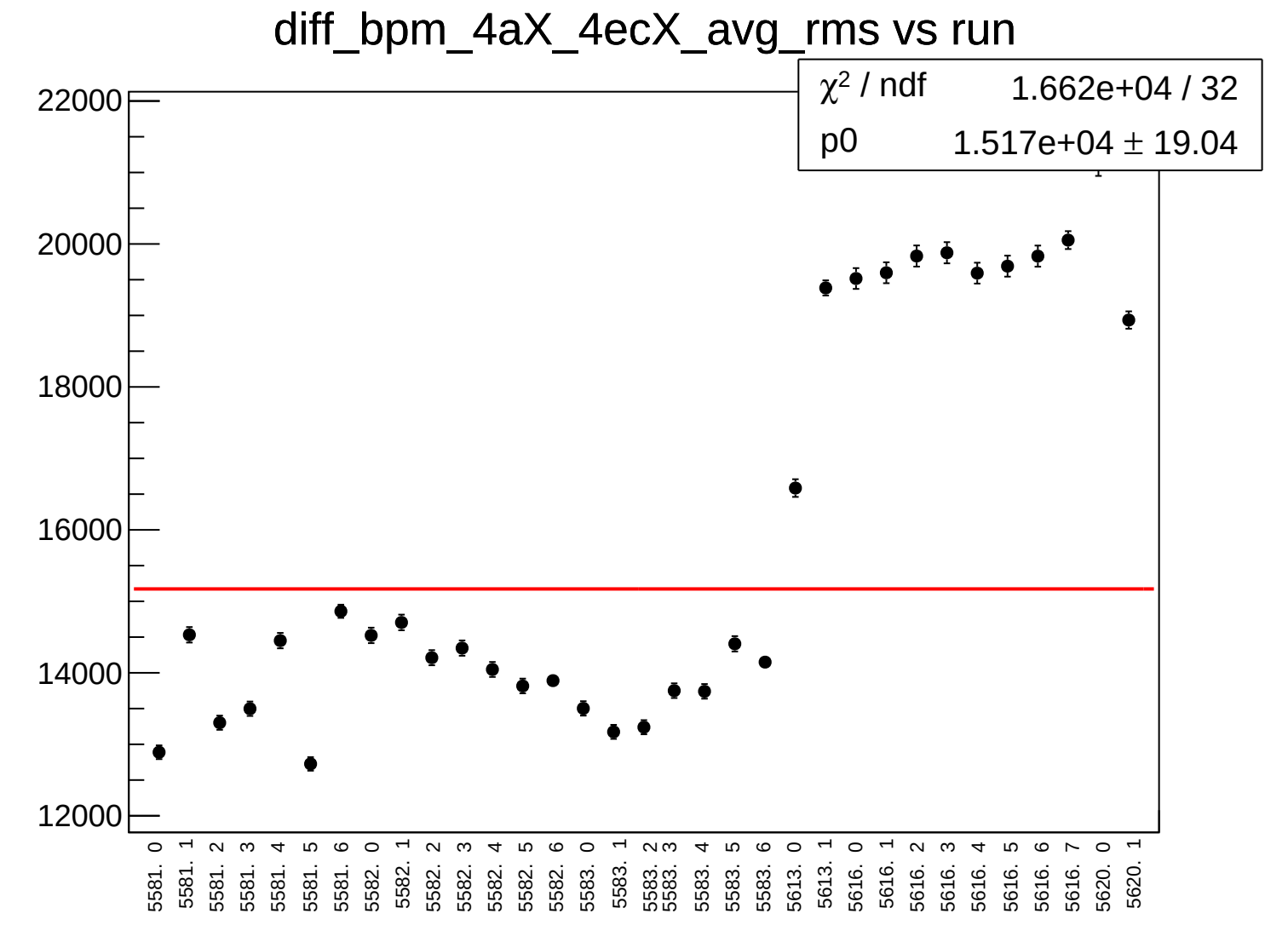

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 36.46 / 32
p0 −34.67 ± 26.8
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 254.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.002917
Std Dev 1.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

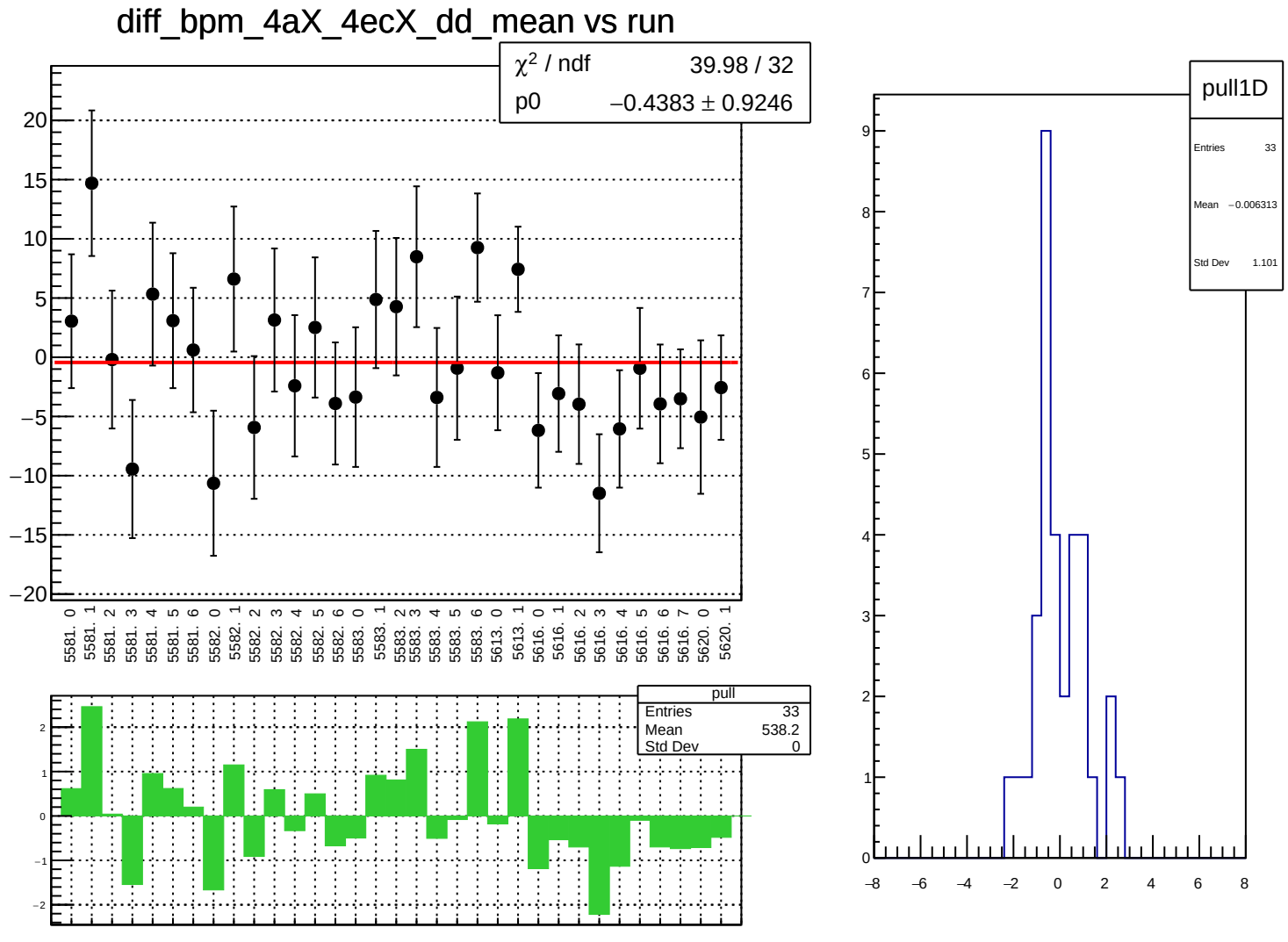

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.663e+04 / 32
p0 1.511e+04 ± 18.95
22000
20000
18000
16000
14000
12000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

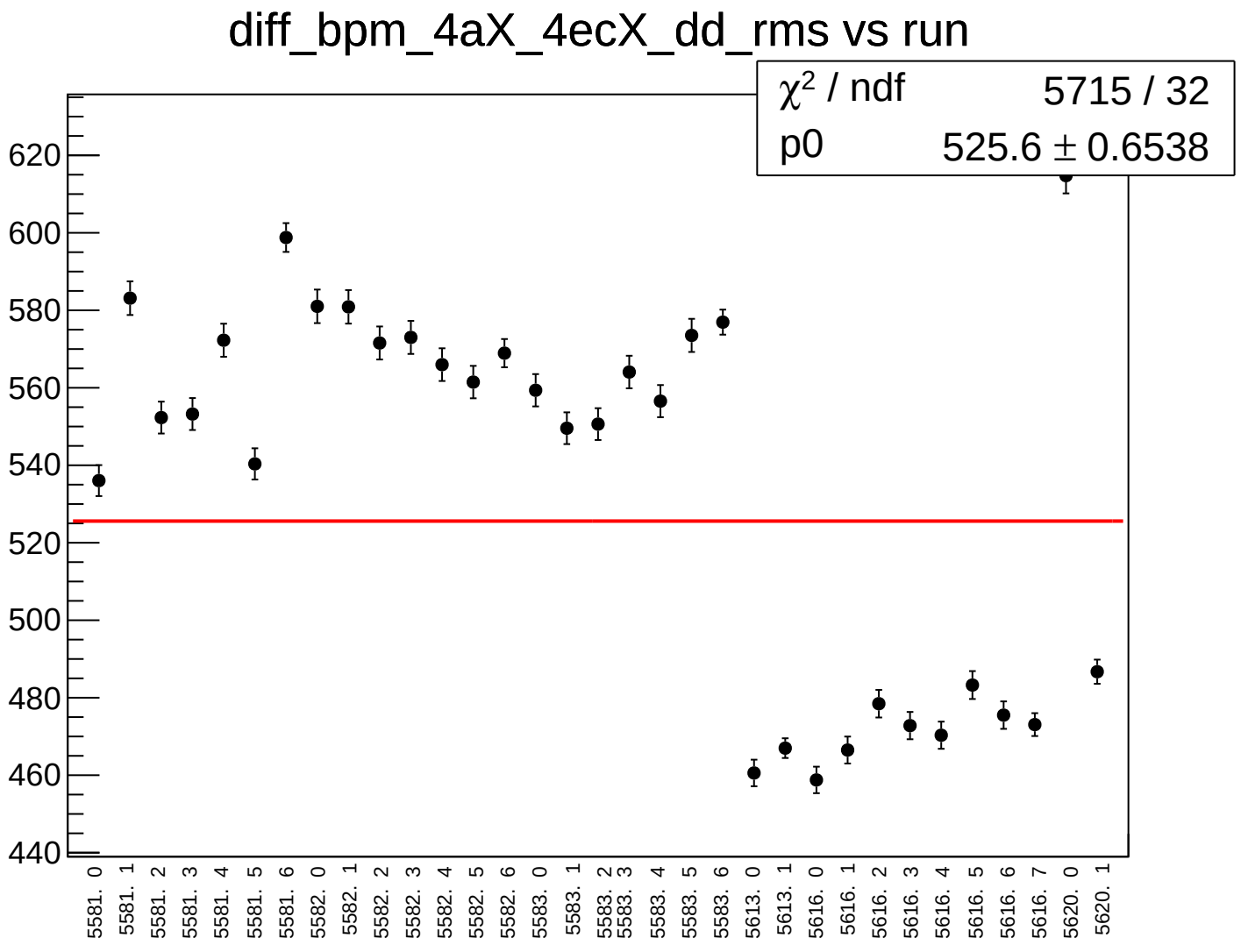

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 31.64 / 32
p0 0.6684 ± 0.8951
20
15
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 106.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.02965
Std Dev 0.9788
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

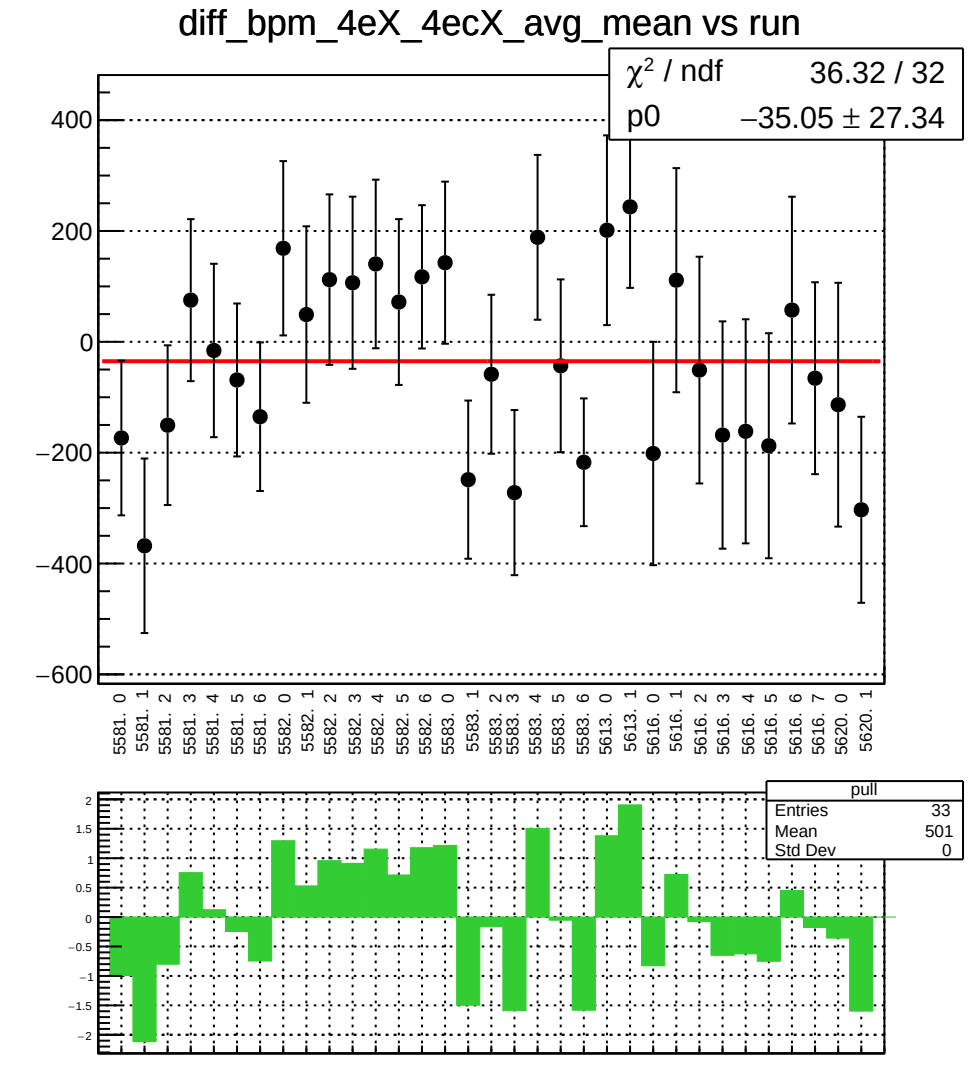

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 1120 / 32
p0 510.6 ± 0.633
640
620
600
580
560
540
520
500
480
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

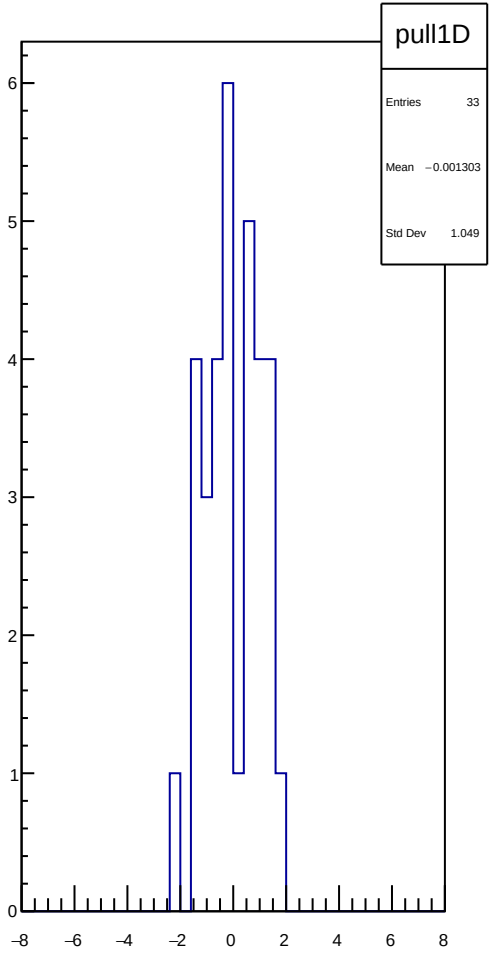

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 36.3 / 32
p0 −34.03 ± 26.92
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 306.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.002336
Std Dev 1.049
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

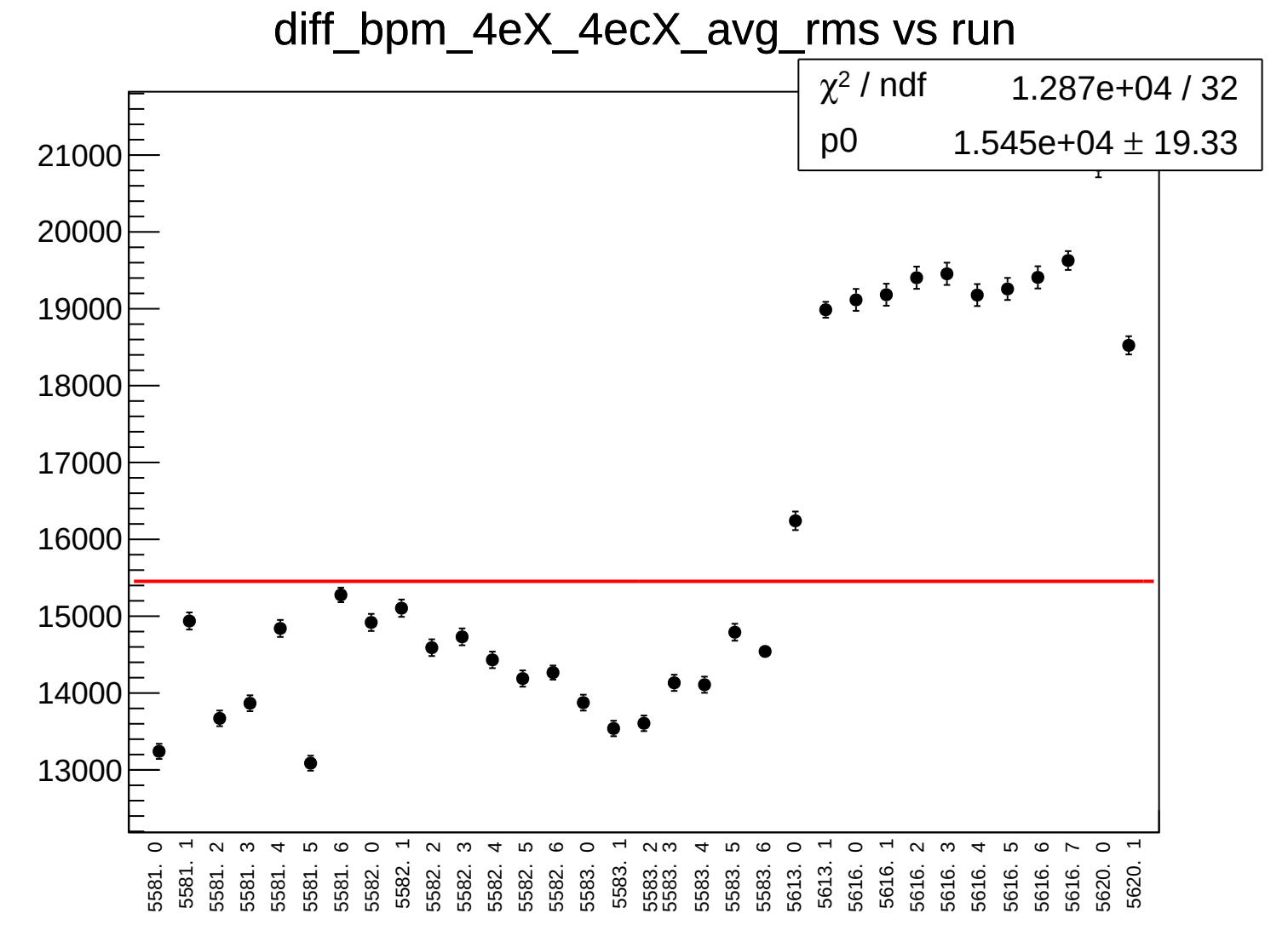

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.662e+04 / 32
p0 1.517e+04 ± 19.04
22000
20000
18000
16000
14000
12000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

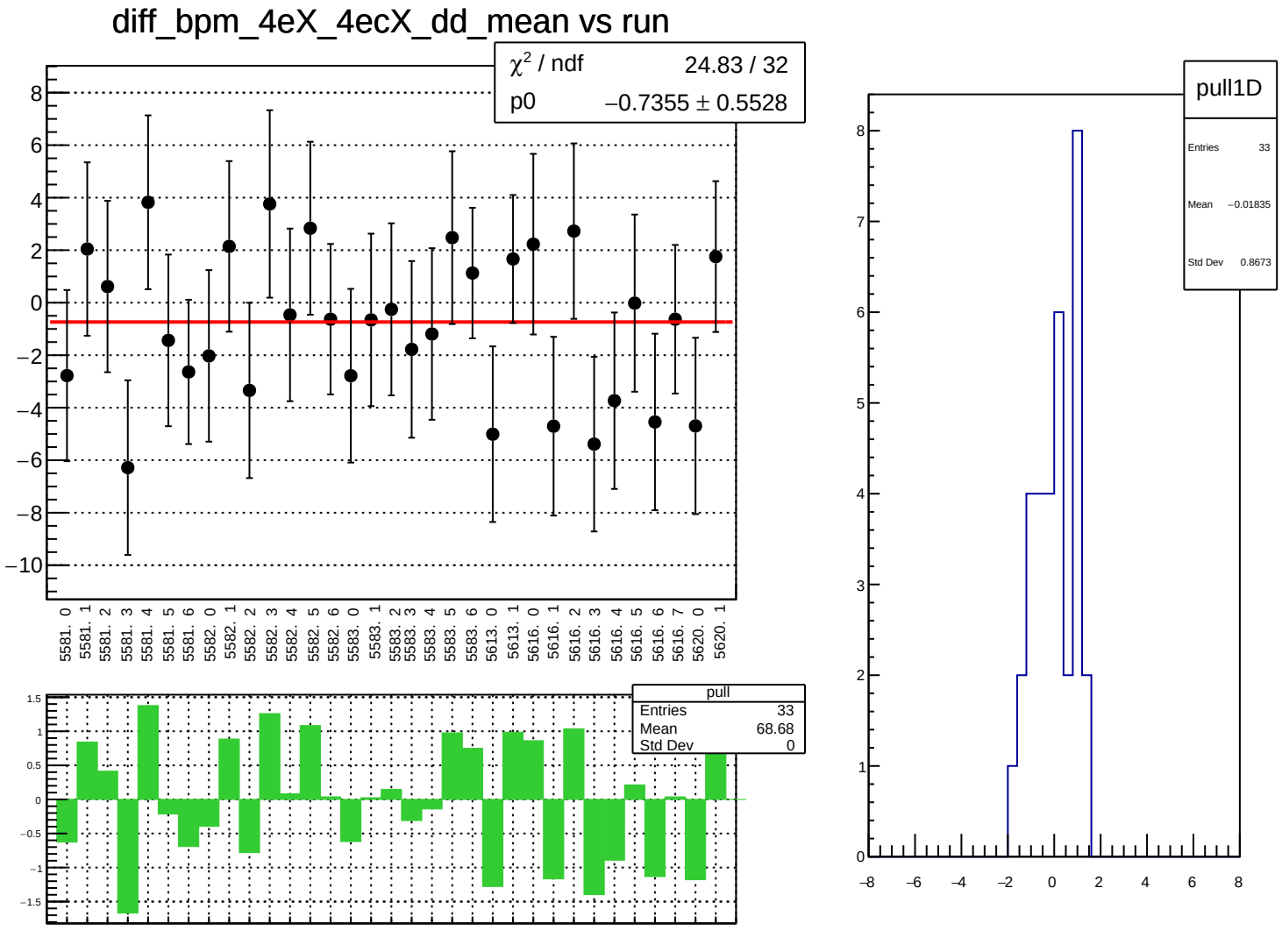

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 39.98 / 32
p0 −0.4383 ± 0.9246
pull
Entries 33
Mean 538.2
Std Dev 0
pull1D
Entries 33
Mean −0.006313
Std Dev 1.101

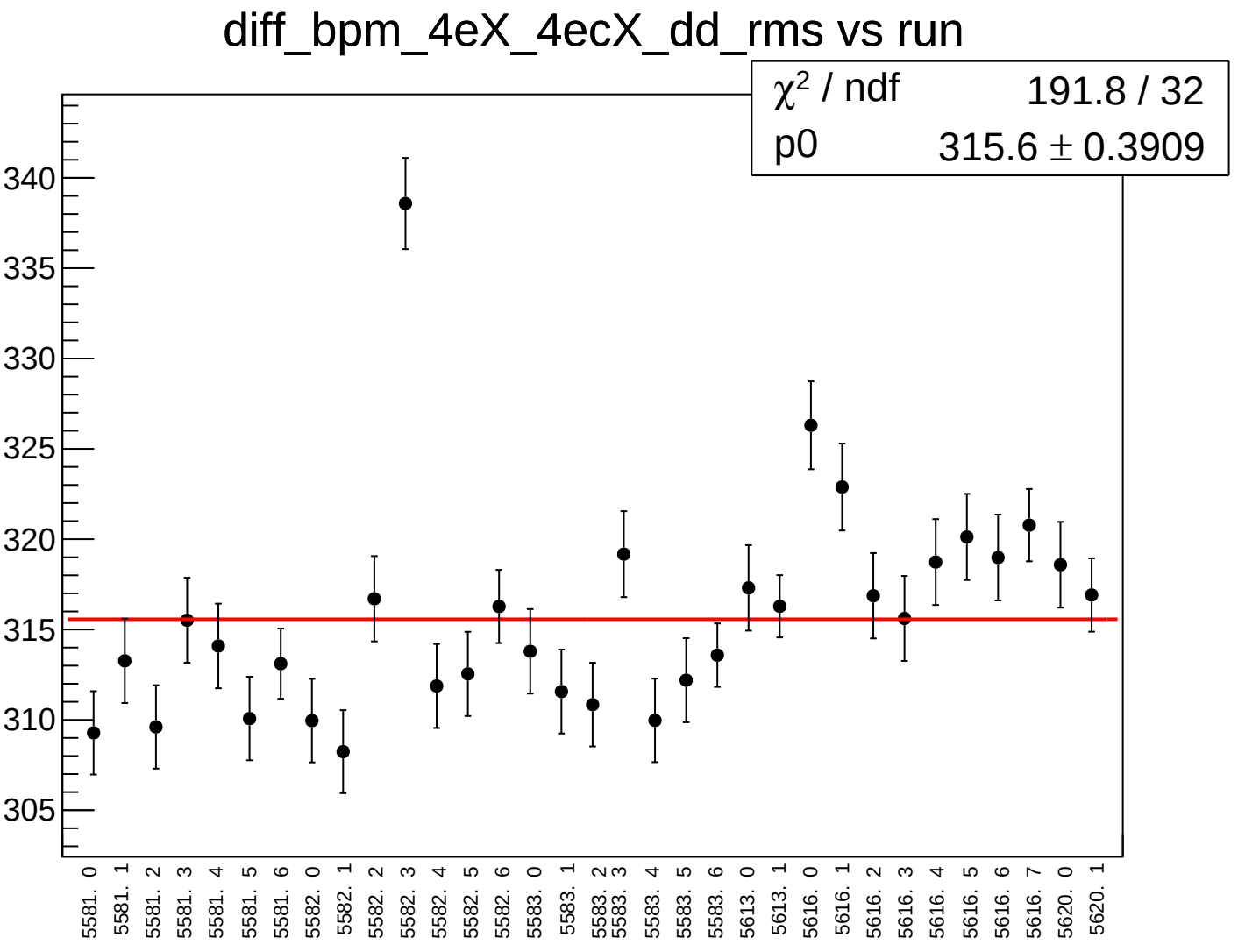

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 5715 / 32
p0 525.6 ± 0.6538
620
600
580
560
540
520
500
480
460
440
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

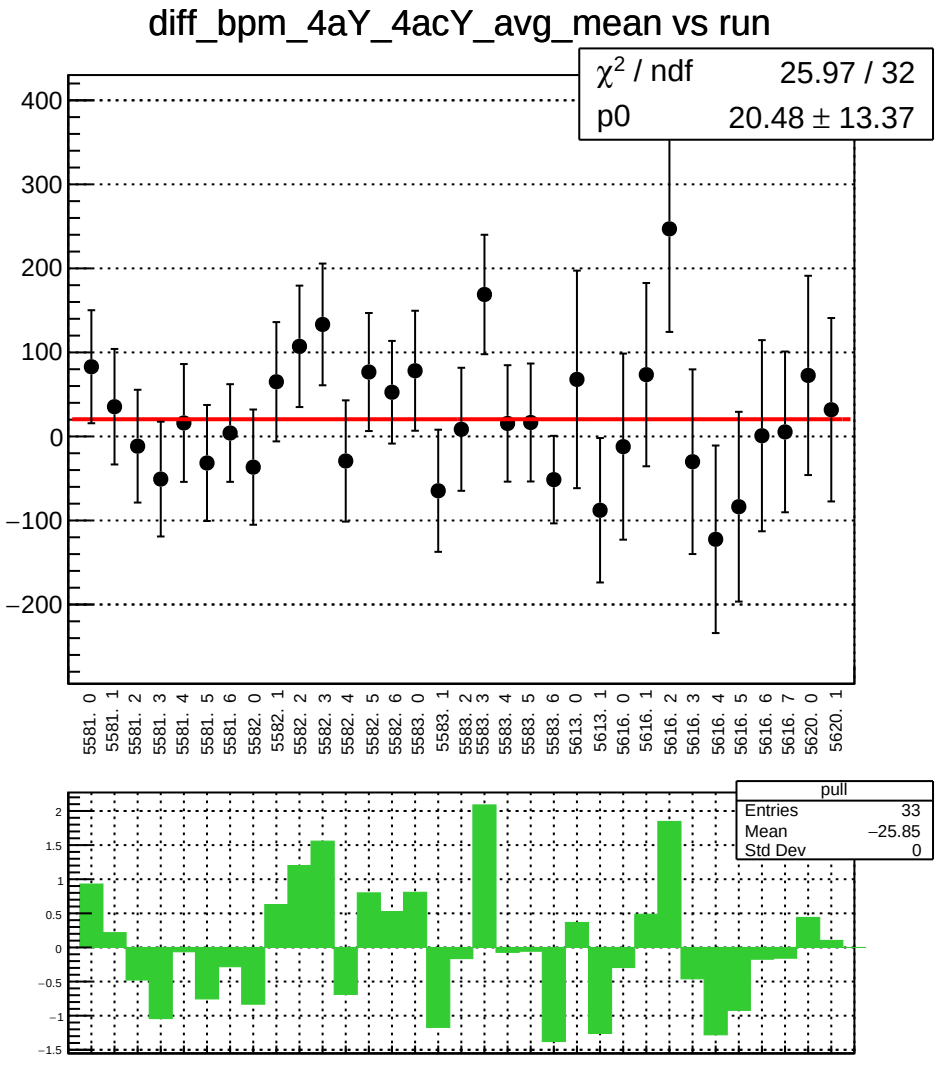

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 36.32 / 32
p0 −35.05 ± 27.34
400
200
0
−200
−400
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 501
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

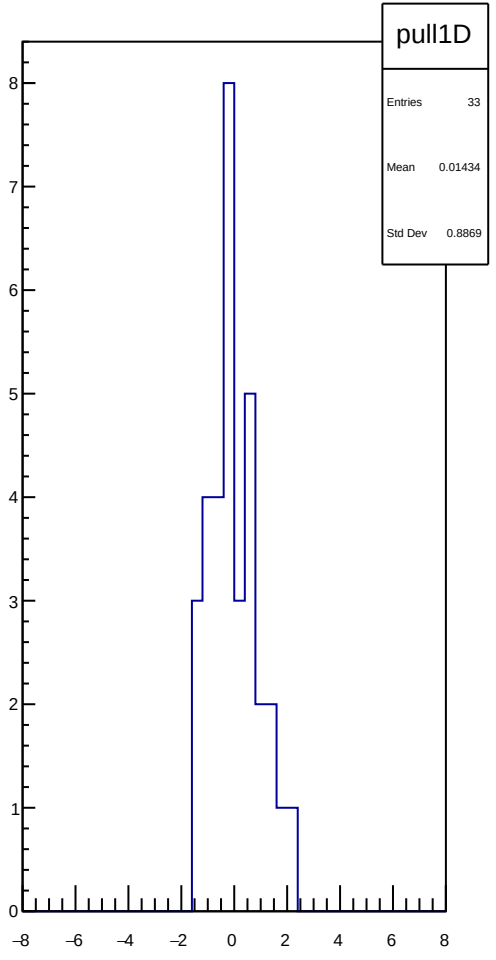

pull1D
Entries 33
Mean −0.001303
Std Dev 1.049
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

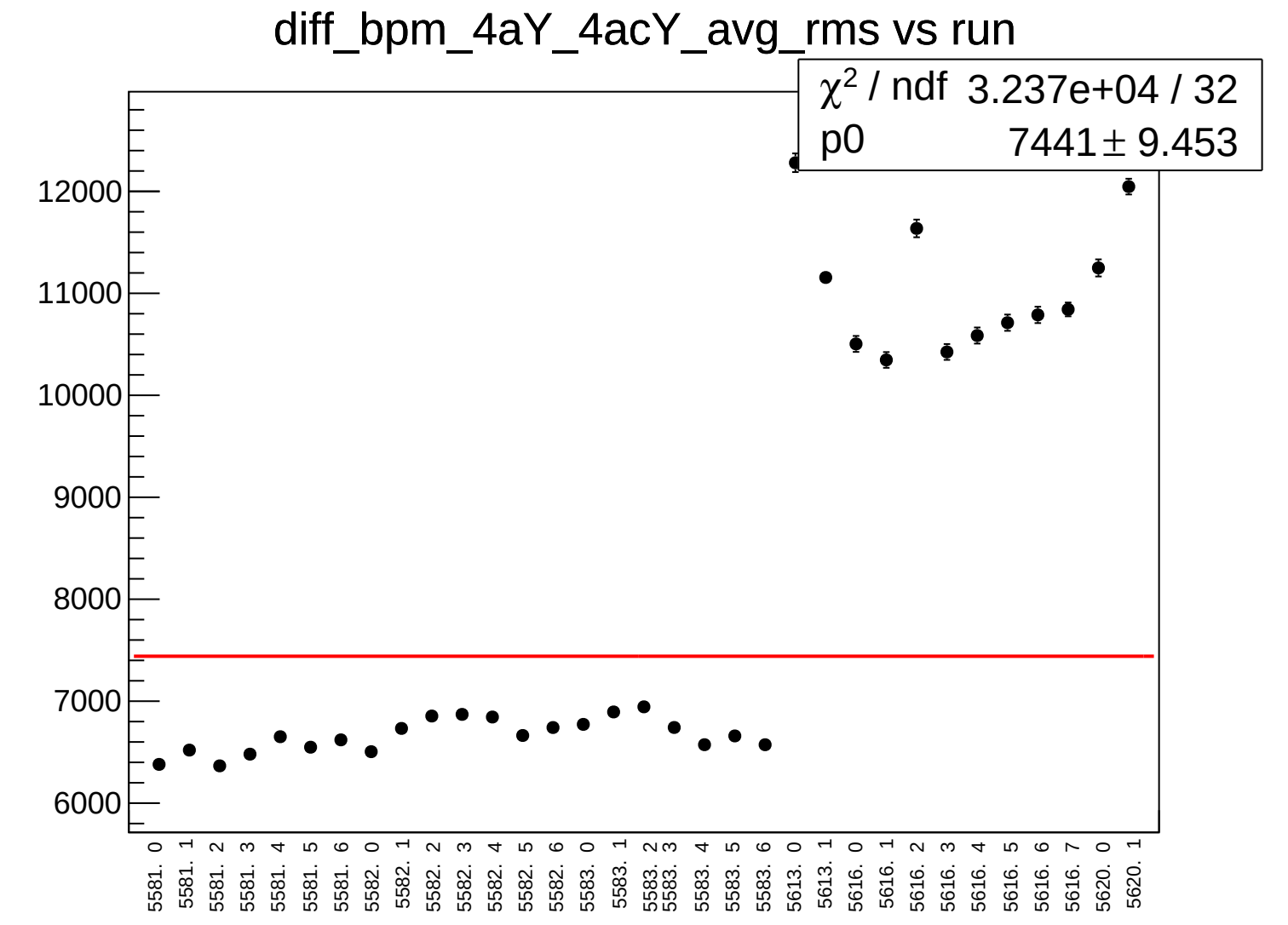

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.287e+04 / 32
p0 1.545e+04 ± 19.33
21000
20000
19000
18000
17000
16000
15000
14000
13000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

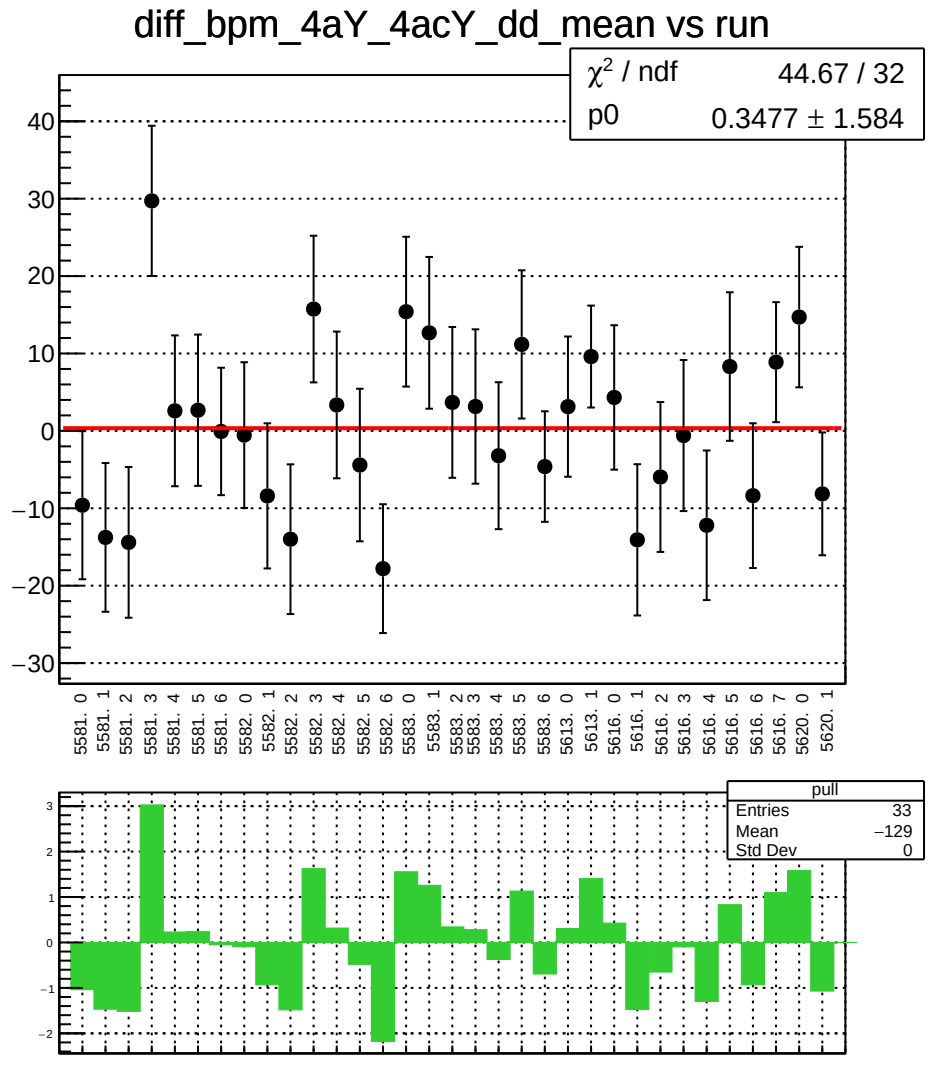

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 24.83 / 32
p0 −0.7355 ± 0.5528
pull
Entries 33
Mean 68.68
Std Dev 0
pull1D
Entries 33
Mean −0.01835
Std Dev 0.8673

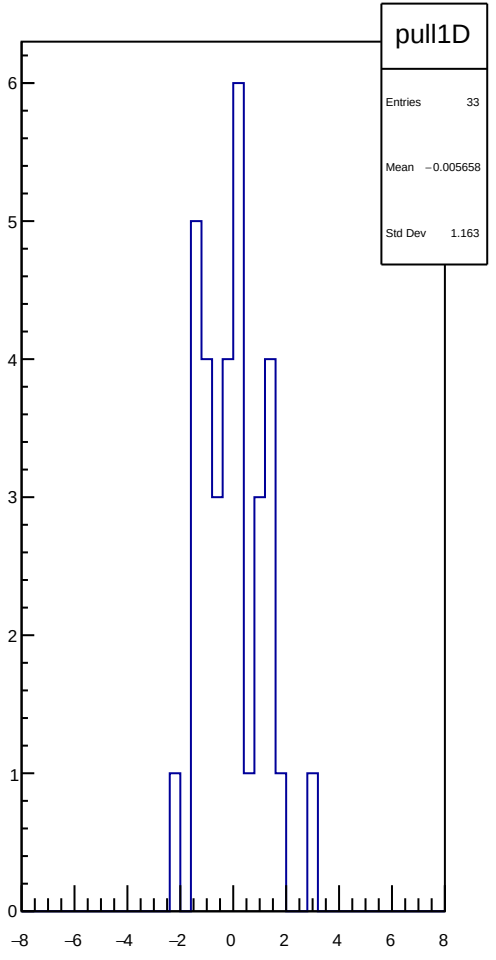

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 191.8 / 32
p0 315.6 ± 0.3909
340
335
330
325
320
315
310
305
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

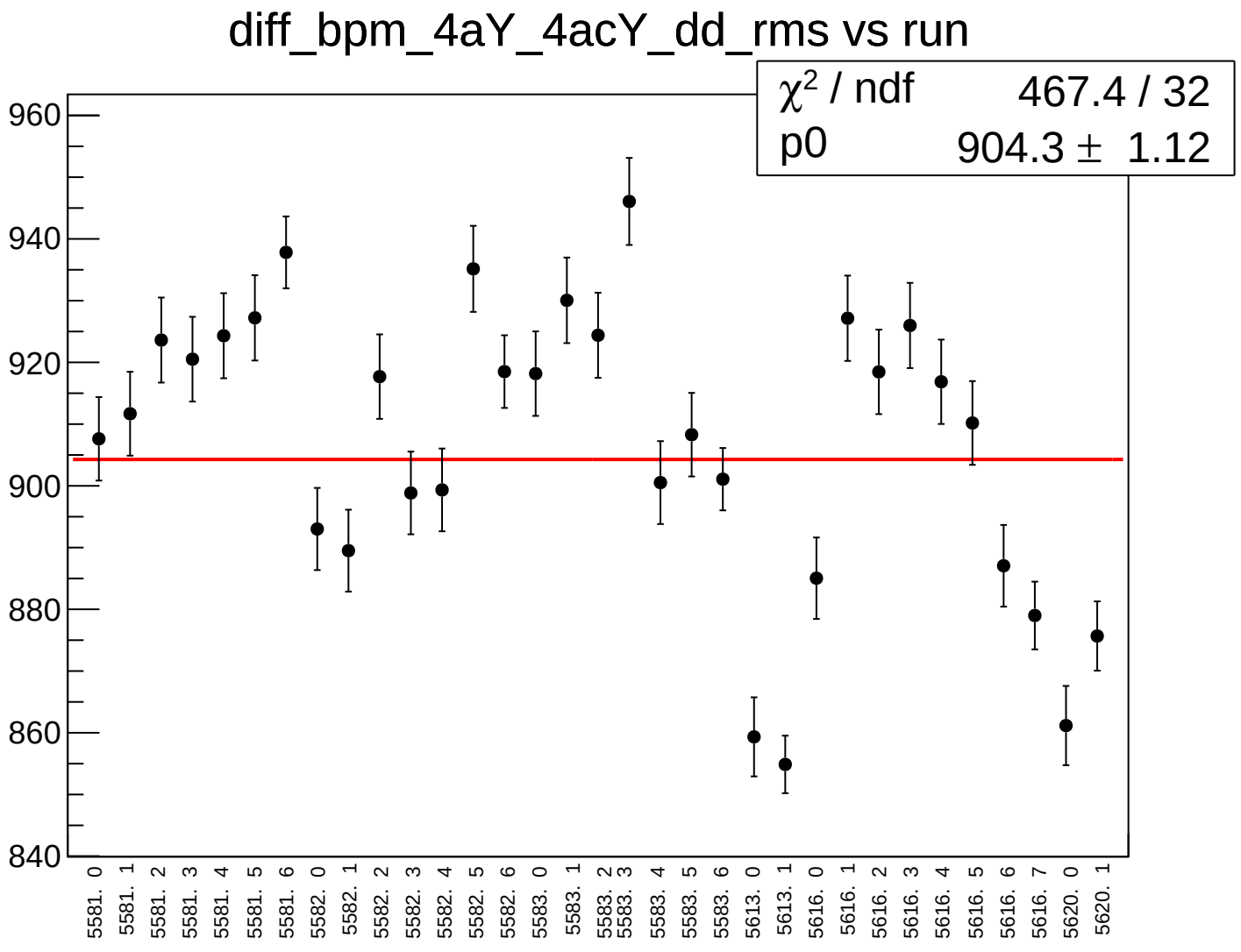

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 25.97 / 32
p0 20.48 ± 13.37
400
300
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −25.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

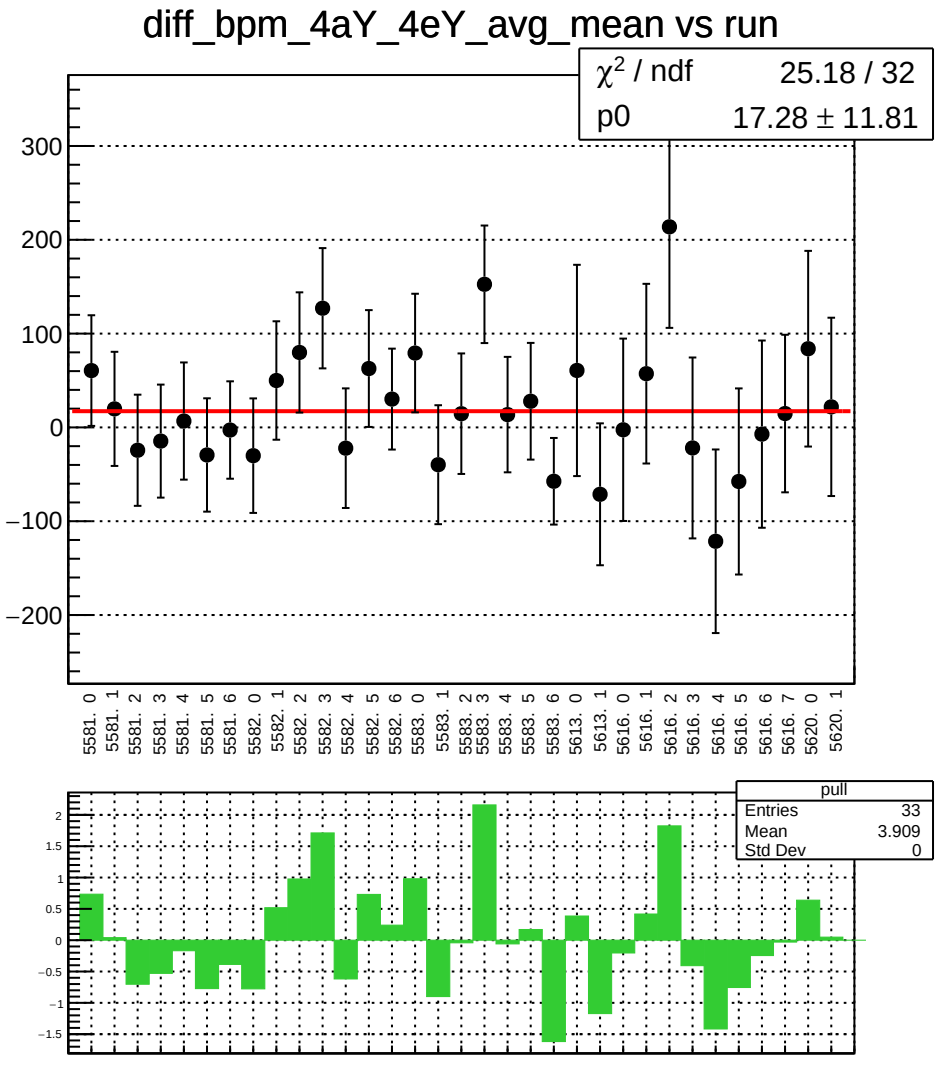

pull1D
Entries 33
Mean 0.01434
Std Dev 0.8869
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

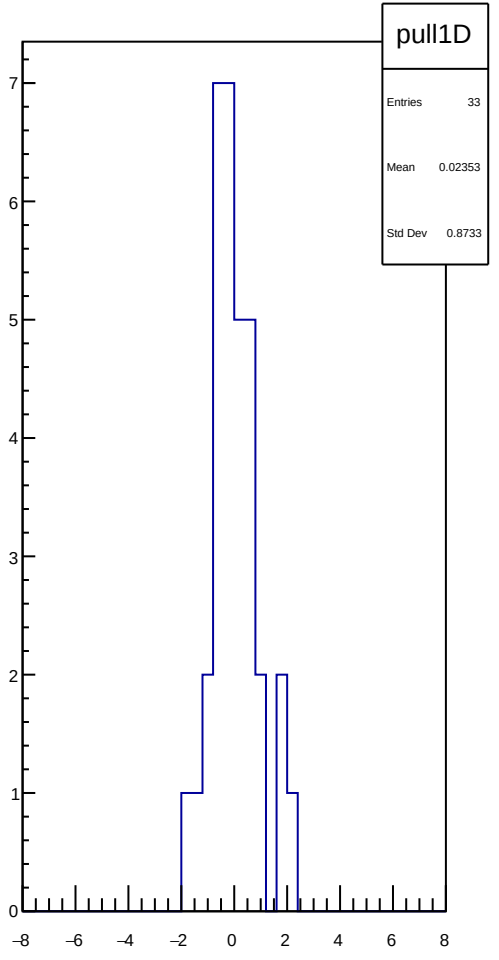

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 3.237e+04 / 32
p0 7441 ± 9.453
12000
11000
10000
9000
8000
7000
6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

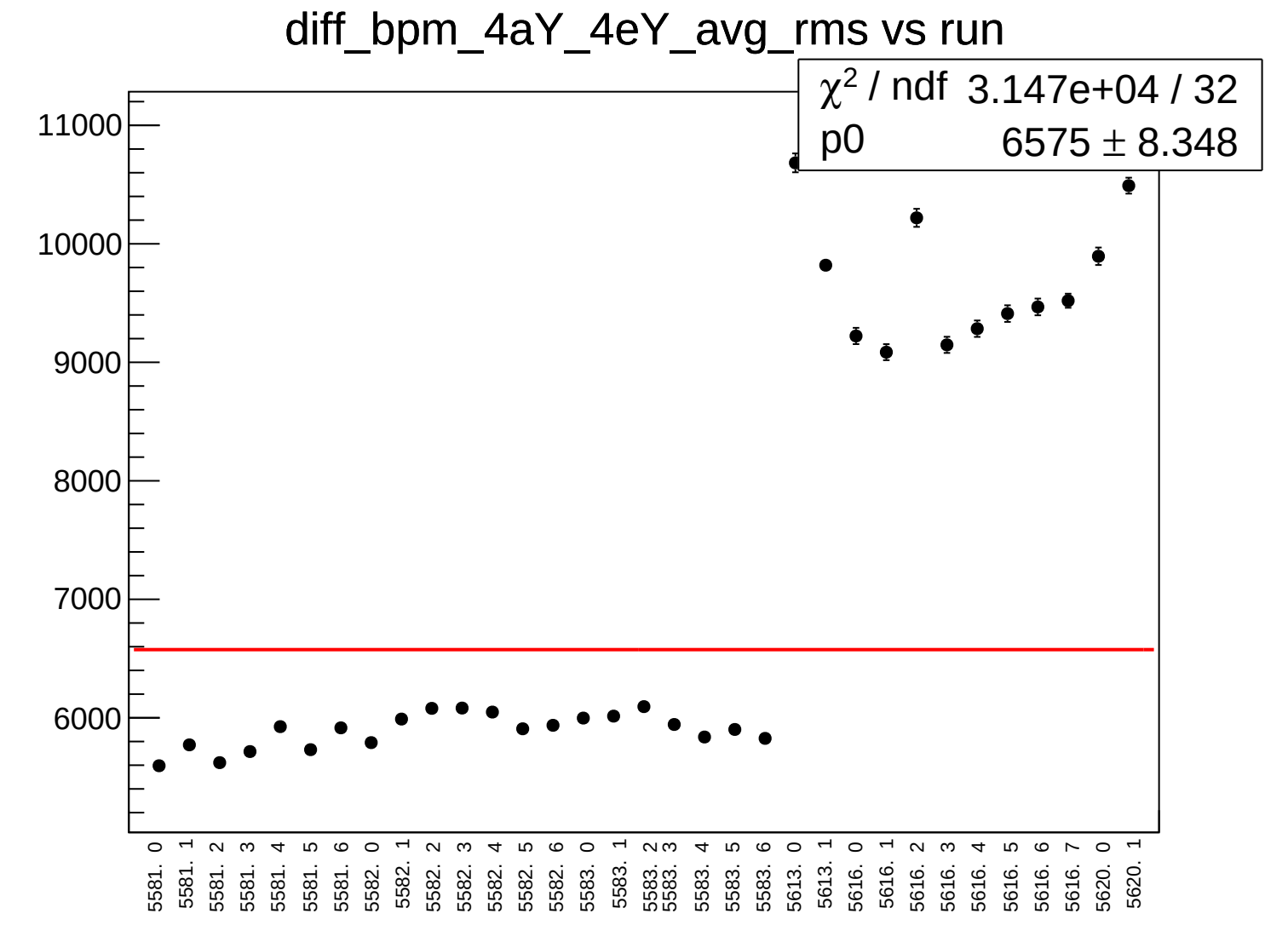

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 44.67 / 32
p0 0.3477 ± 1.584
40
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −129
Std Dev 0
3
2
1
0
−1
−2

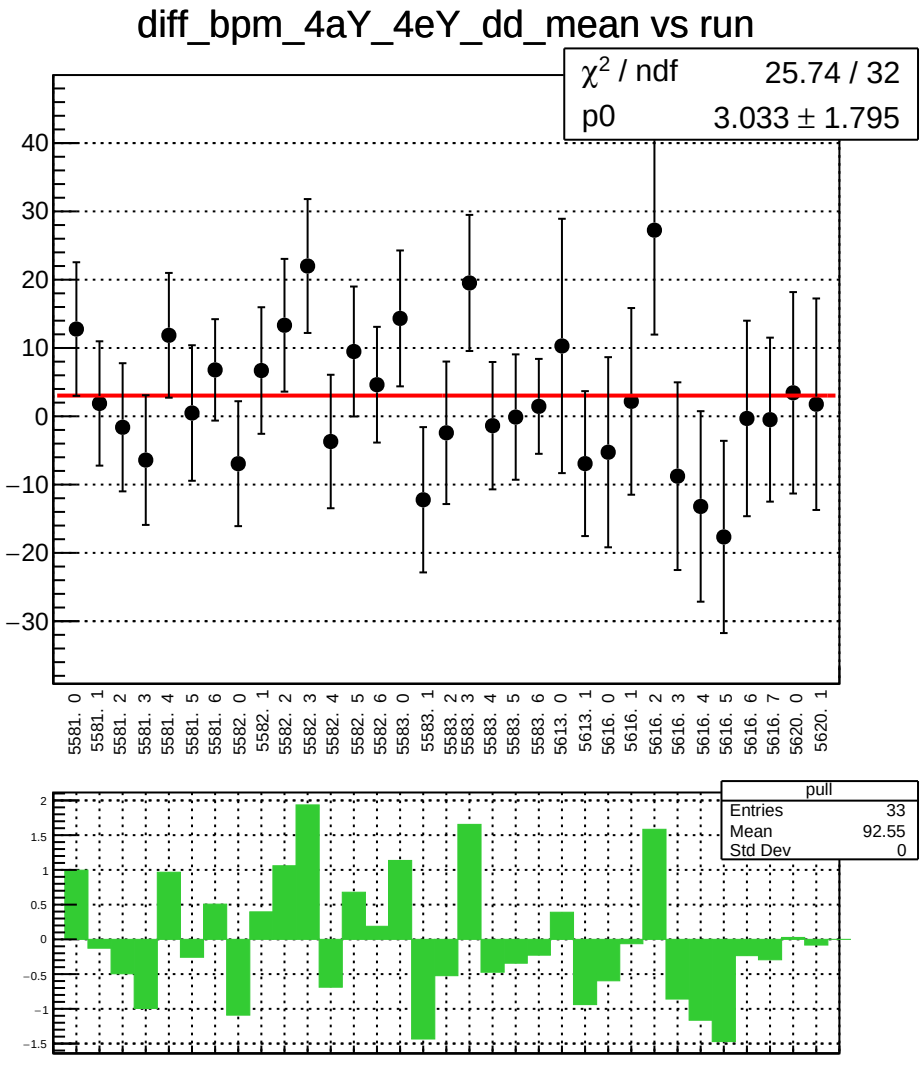

pull1D
Entries 33
Mean −0.005658
Std Dev 1.163
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

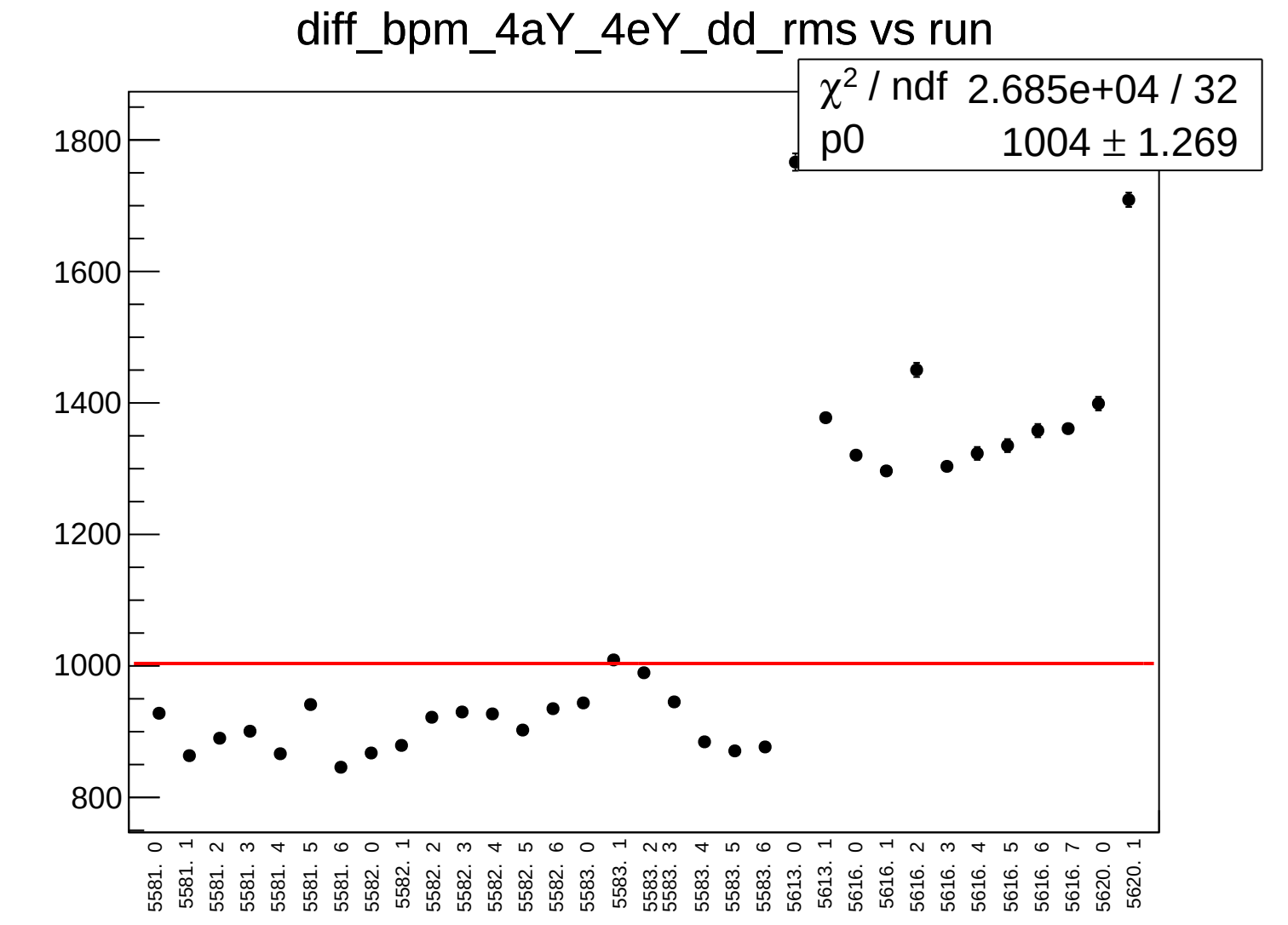

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 467.4 / 32
p0 904.3 ± 1.12
960
940
920
900
880
860
840
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

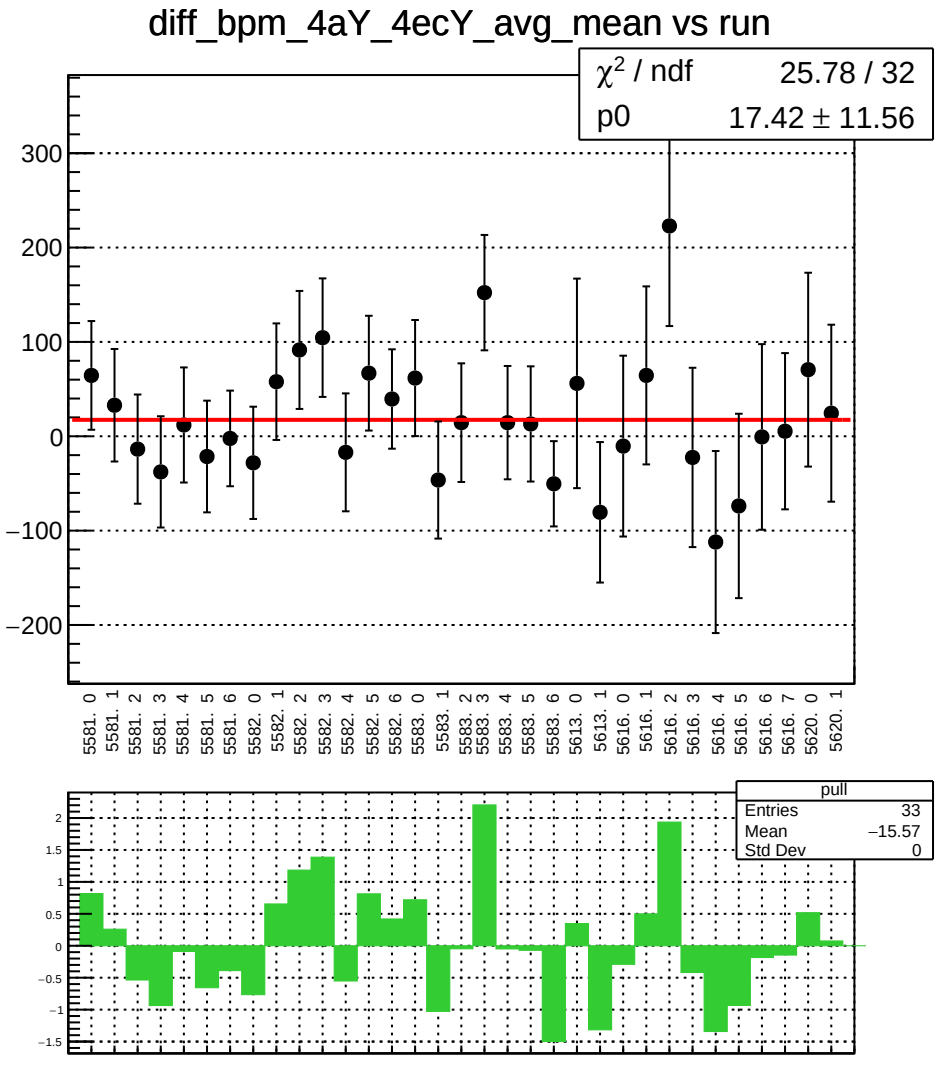

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 25.18 / 32
p0 17.28 ± 11.81
300
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 3.909
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

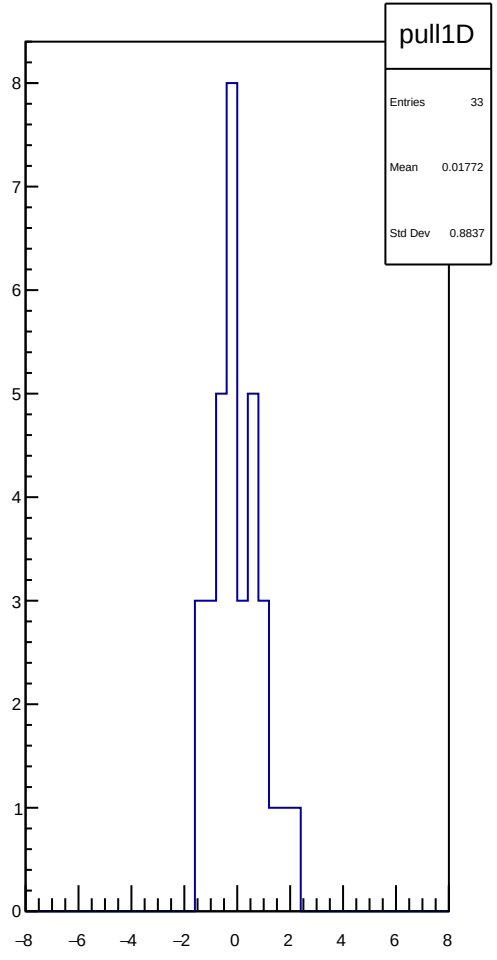

pull1D
Entries 33
Mean 0.02353
Std Dev 0.8733
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

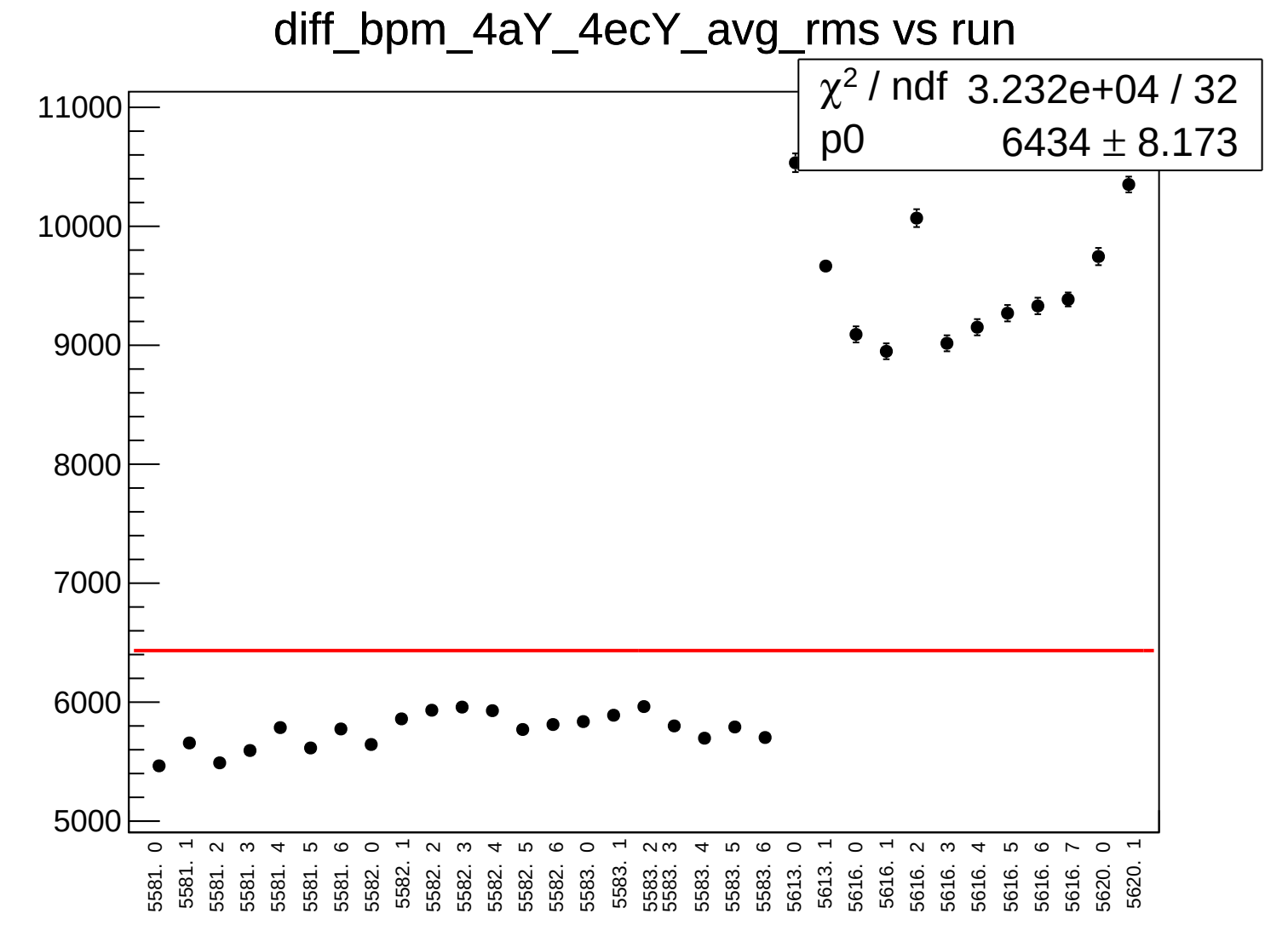

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 3.147e+04 / 32
p0 6575 ± 8.348
11000
10000
9000
8000
7000
6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

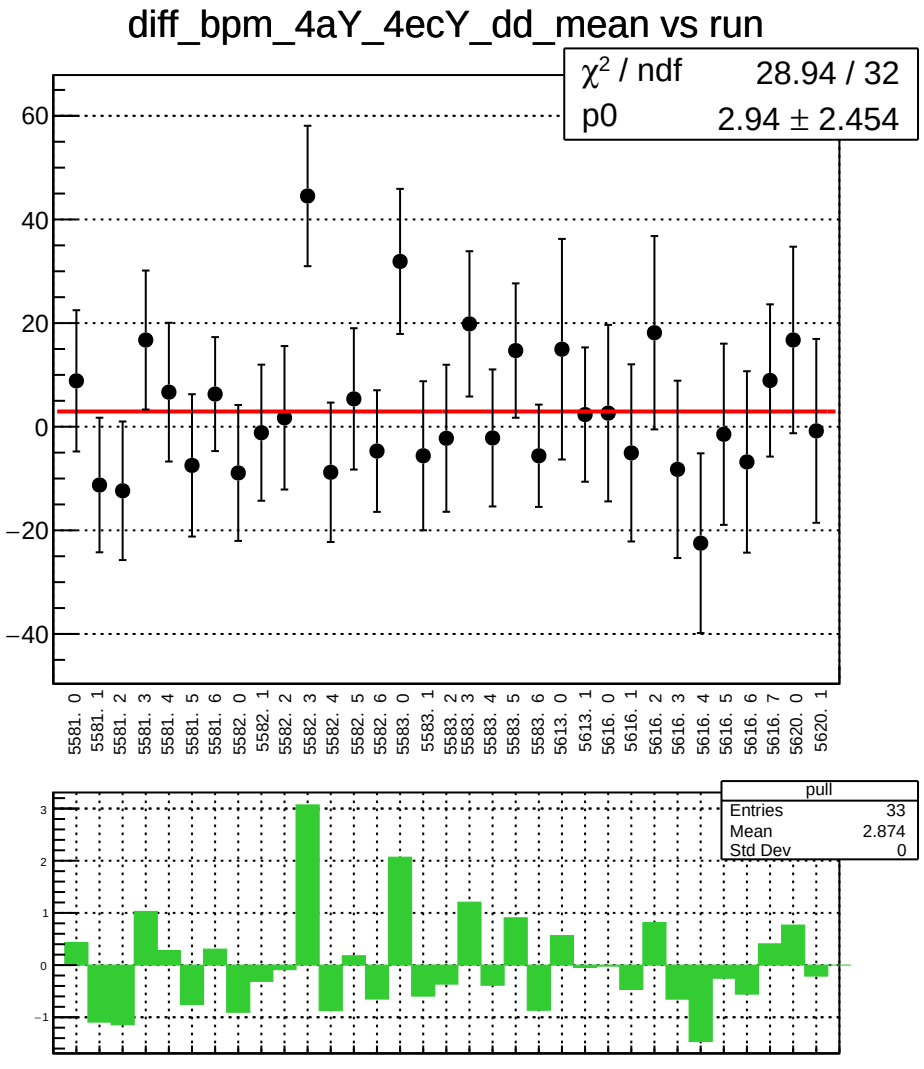

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 25.74 / 32
p0 3.033 ± 1.795
40
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 92.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.02529
Std Dev 0.8827
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

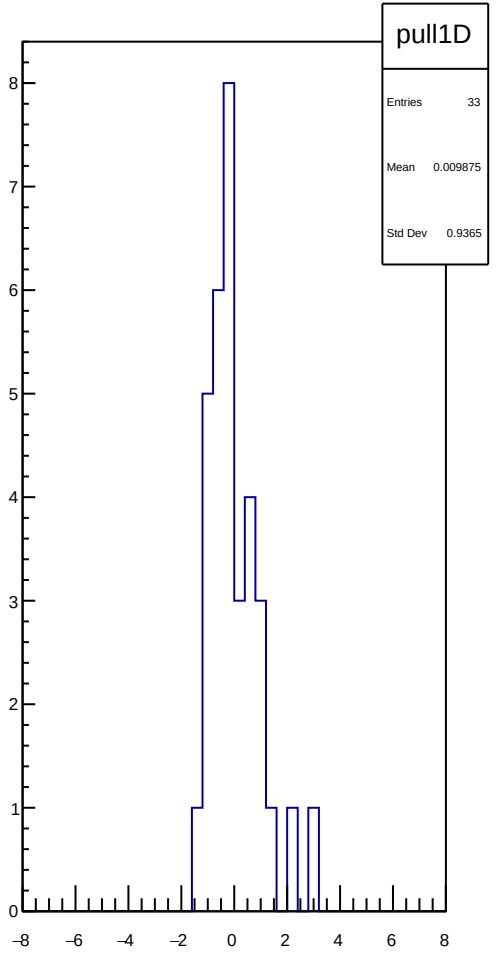

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 2.685e+04 / 32
p0 1004 ± 1.269
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

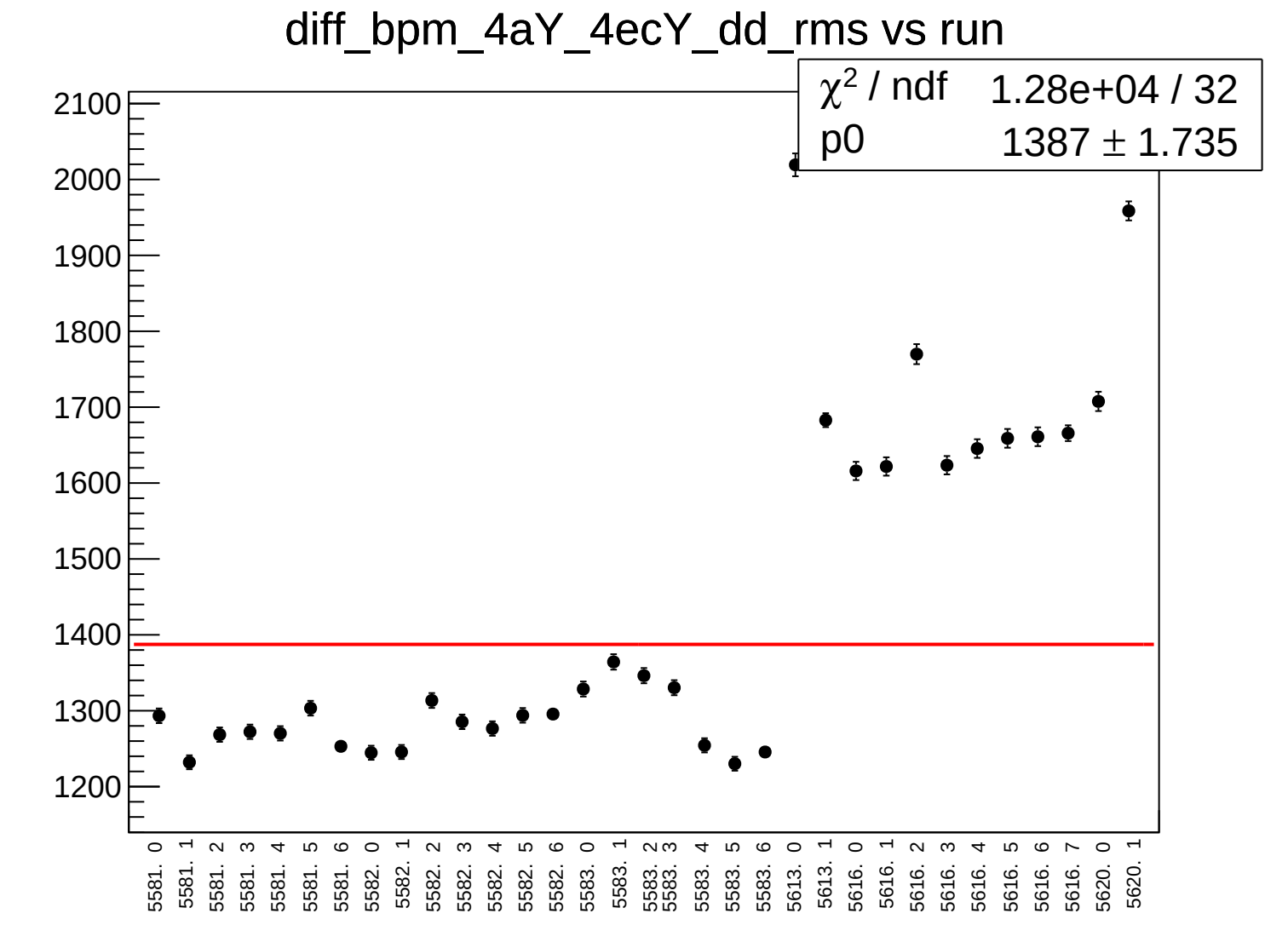

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 25.78 / 32
p0 17.42 ± 11.56
300
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −15.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

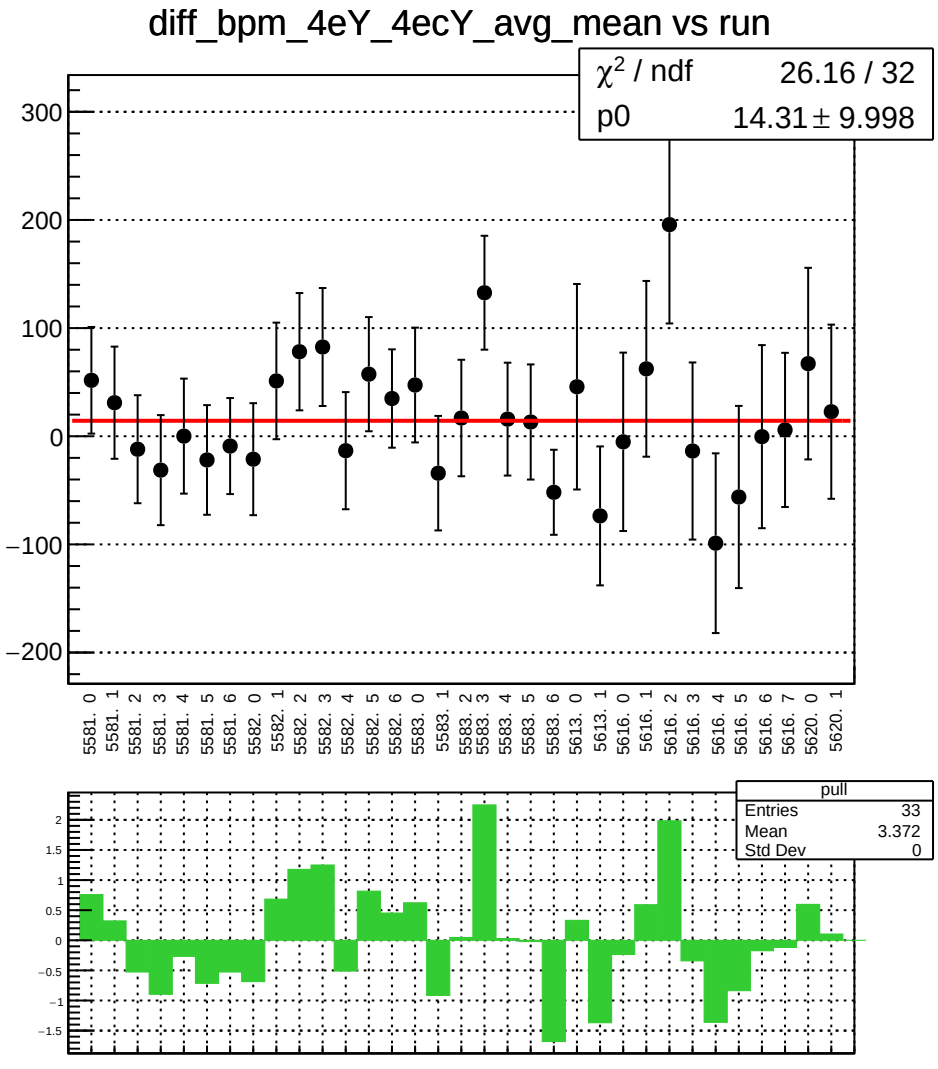

pull1D
Entries 33
Mean 0.01772
Std Dev 0.8837
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

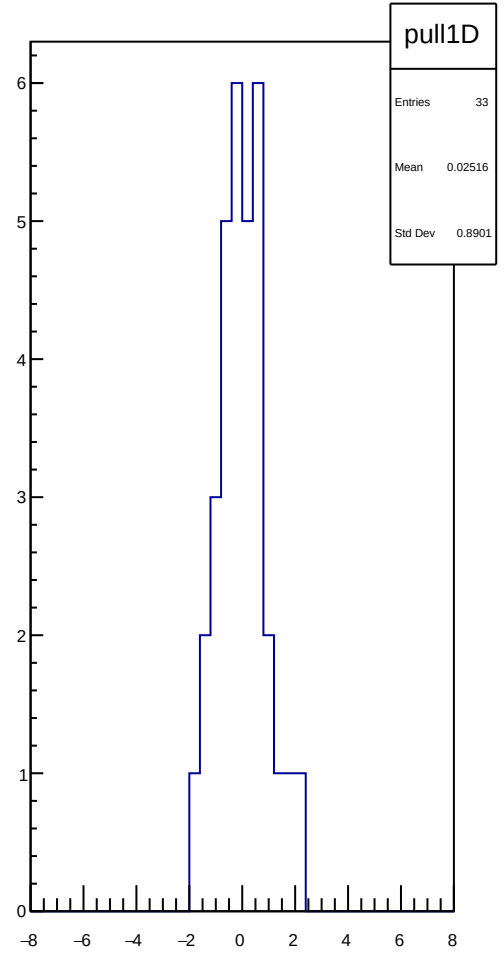

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 3.232e+04 / 32
p0 6434 ± 8.173
11000
10000
9000
8000
7000
6000
5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

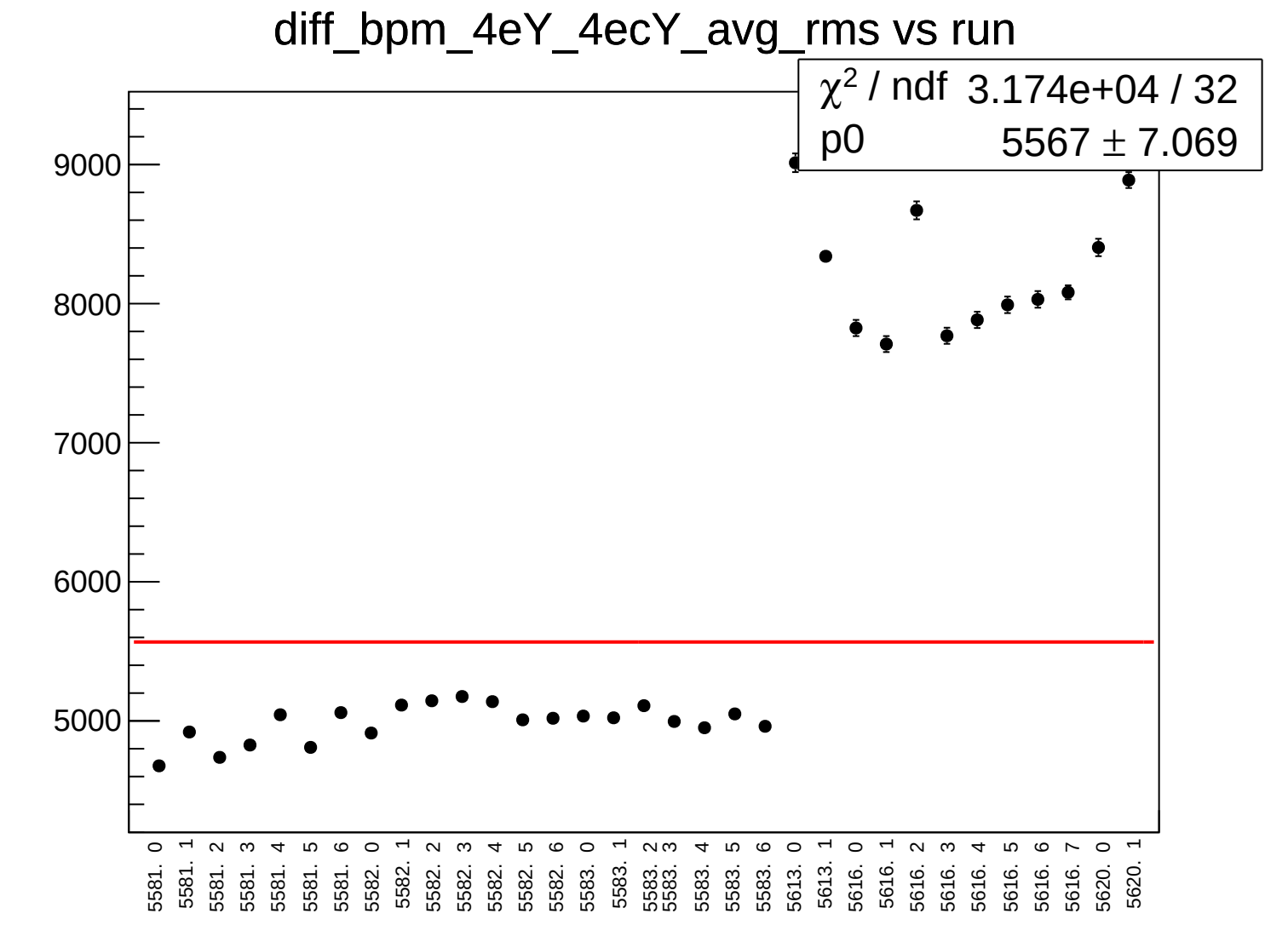

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 28.94 / 32
p0 2.94 ± 2.454
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2.874
Std Dev 0
3
2
1
0
−1

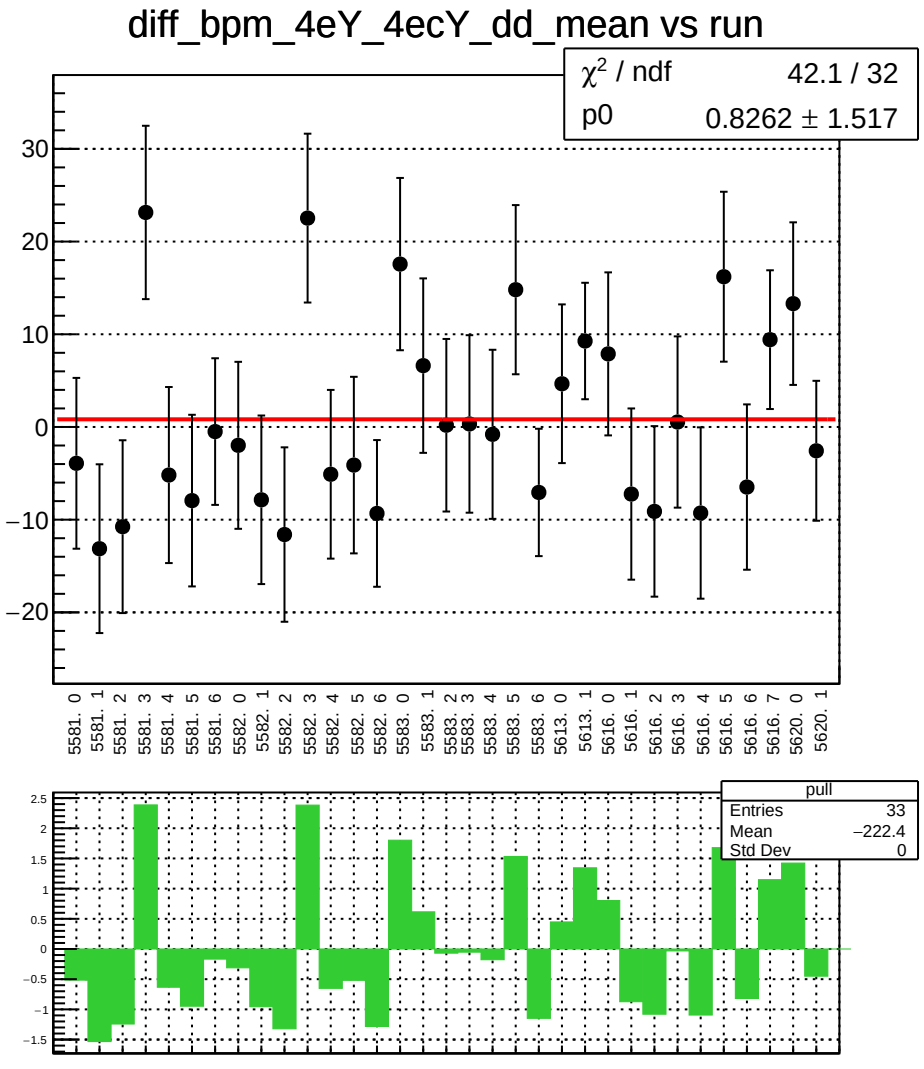

pull1D
Entries 33
Mean 0.009875
Std Dev 0.9365
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

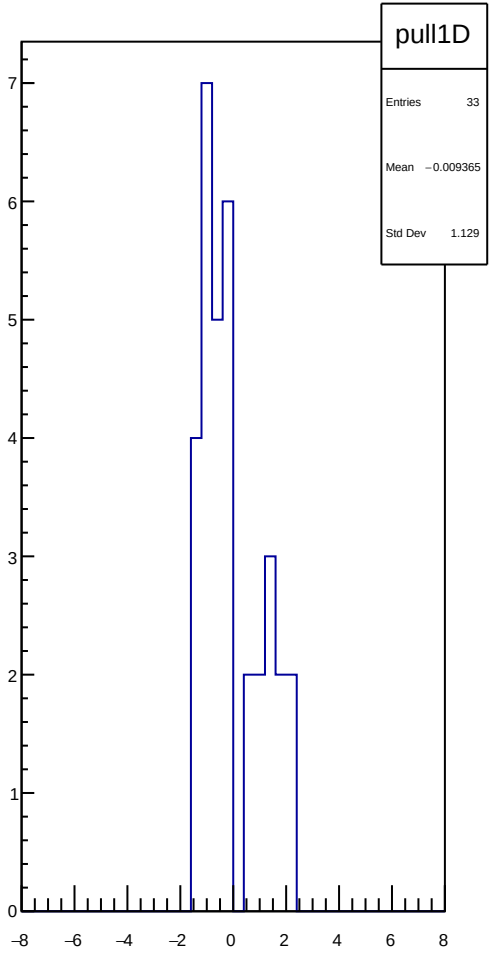

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1.28e+04 / 32
p0 1387 ± 1.735
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

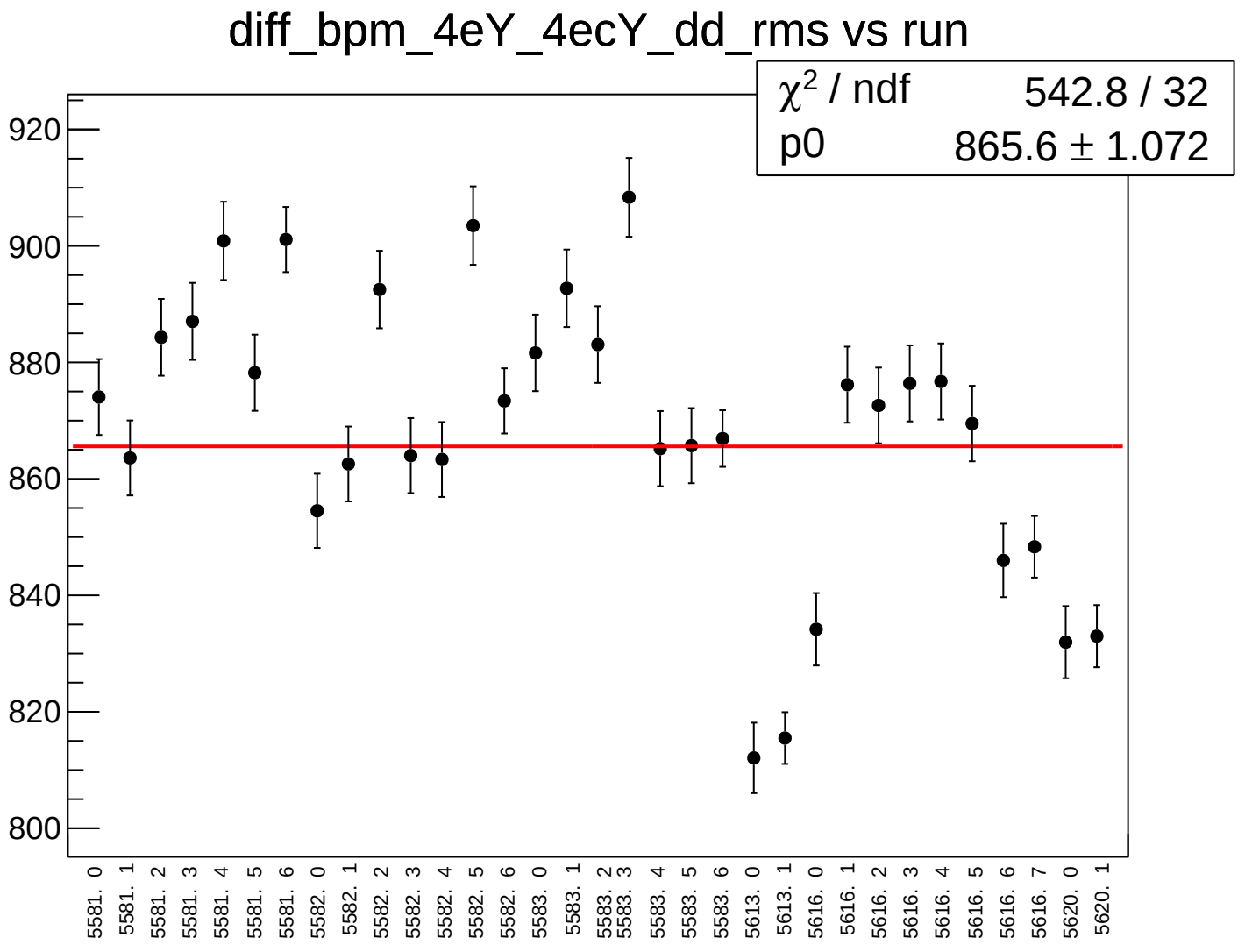

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 26.16 / 32
p0 14.31 ± 9.998
300
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 3.372
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

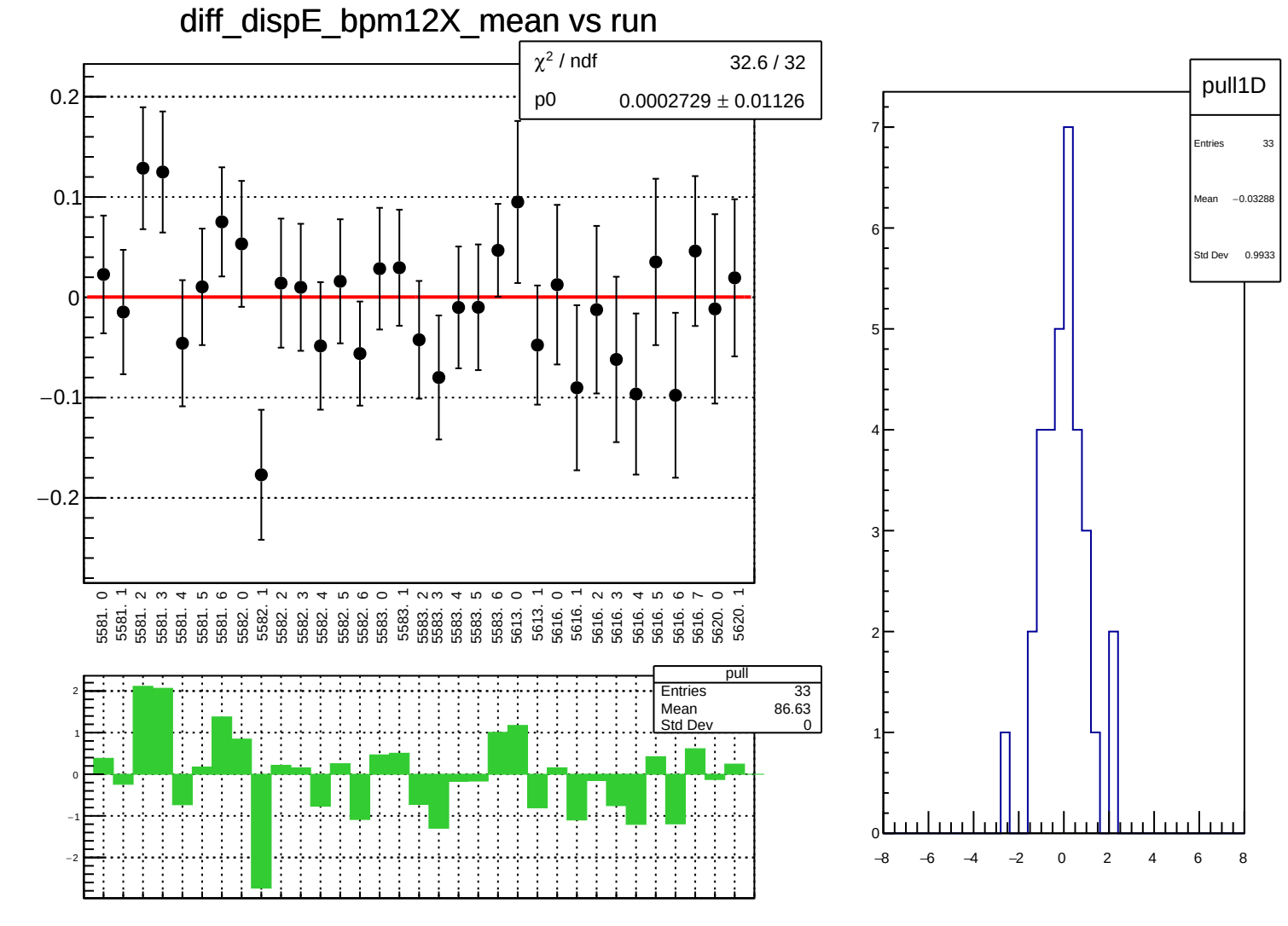

pull1D
Entries 33
Mean 0.02516
Std Dev 0.8901
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

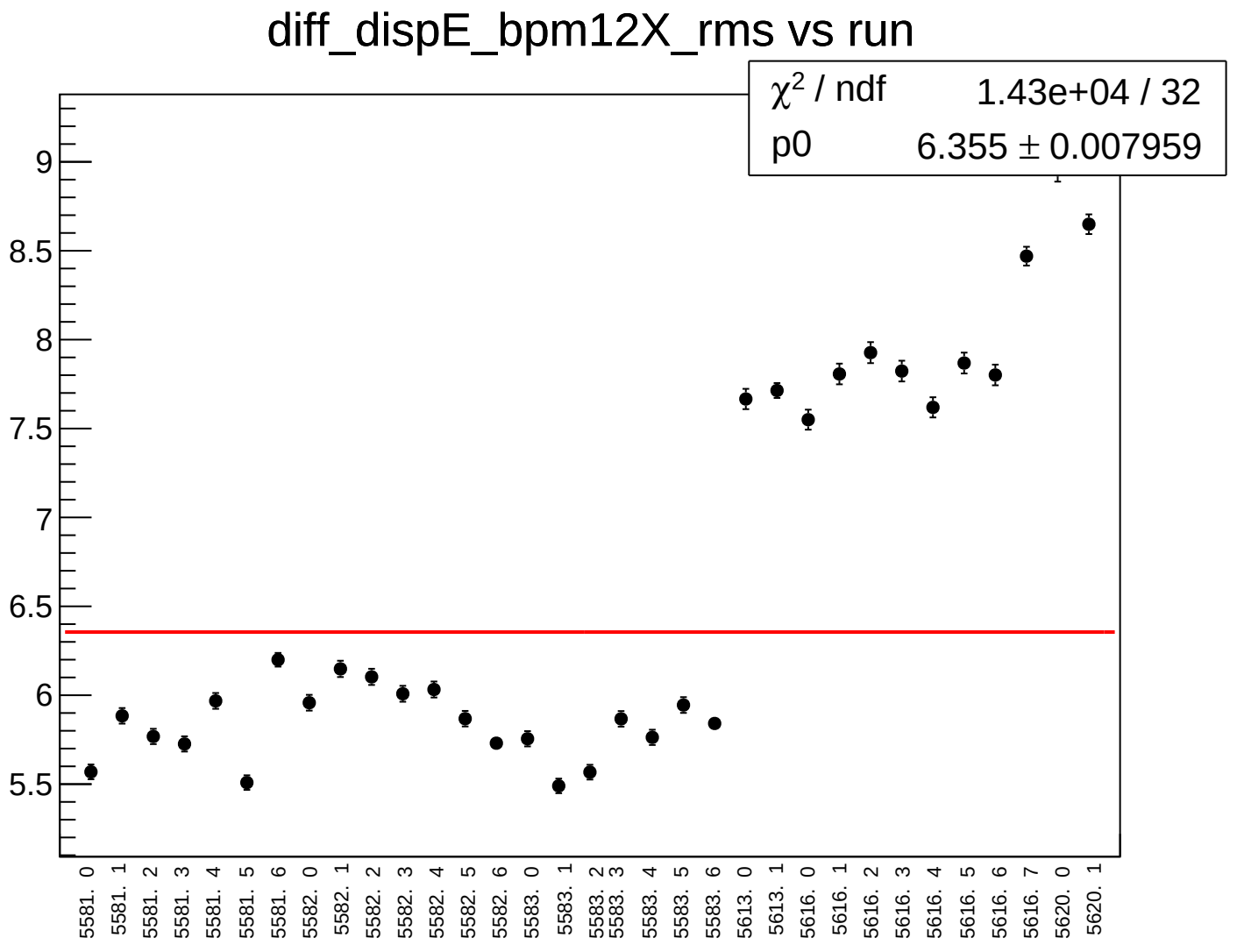

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 3.174e+04 / 32
p0 5567 ± 7.069
9000
8000
7000
6000
5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

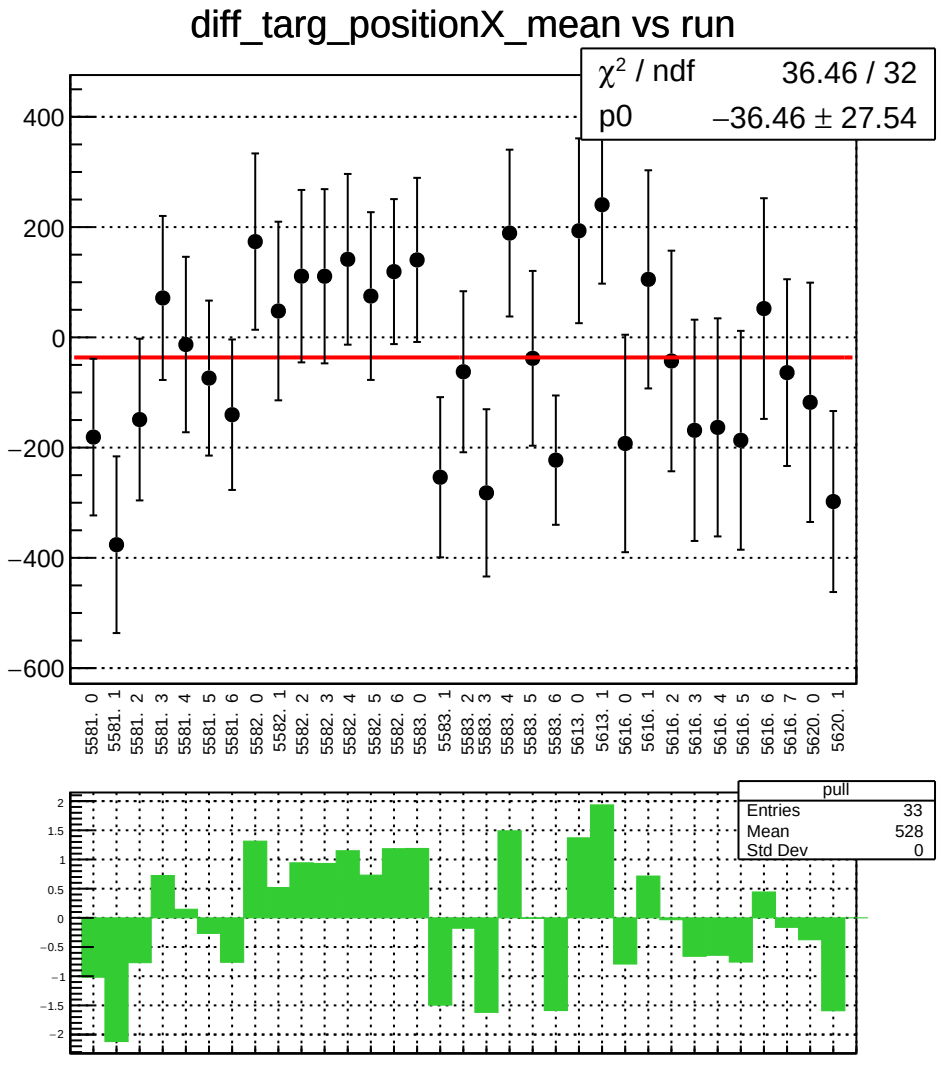

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 42.1 / 32
p0 0.8262 ± 1.517
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −222.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

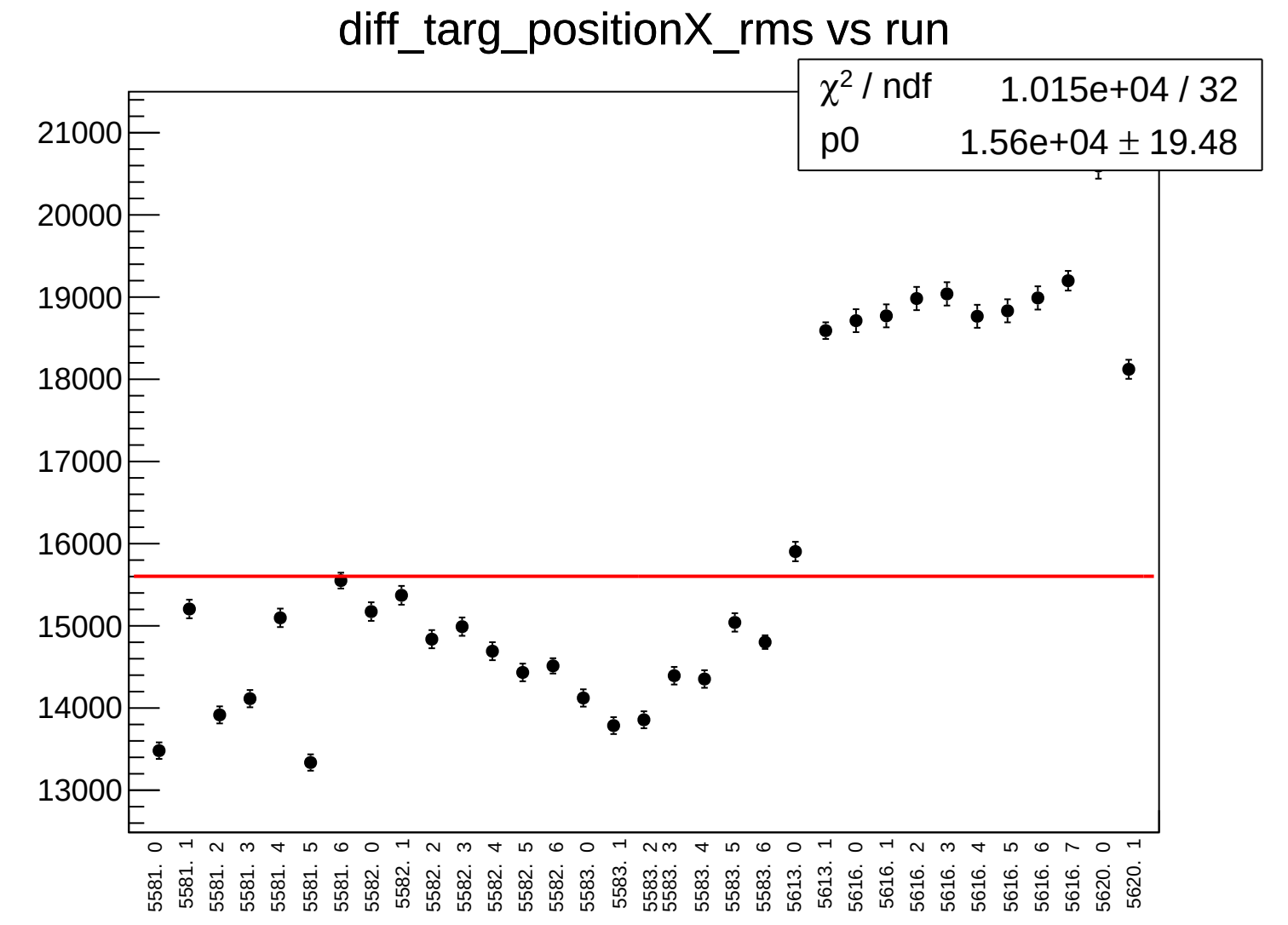

pull1D
Entries 33
Mean −0.009365
Std Dev 1.129
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

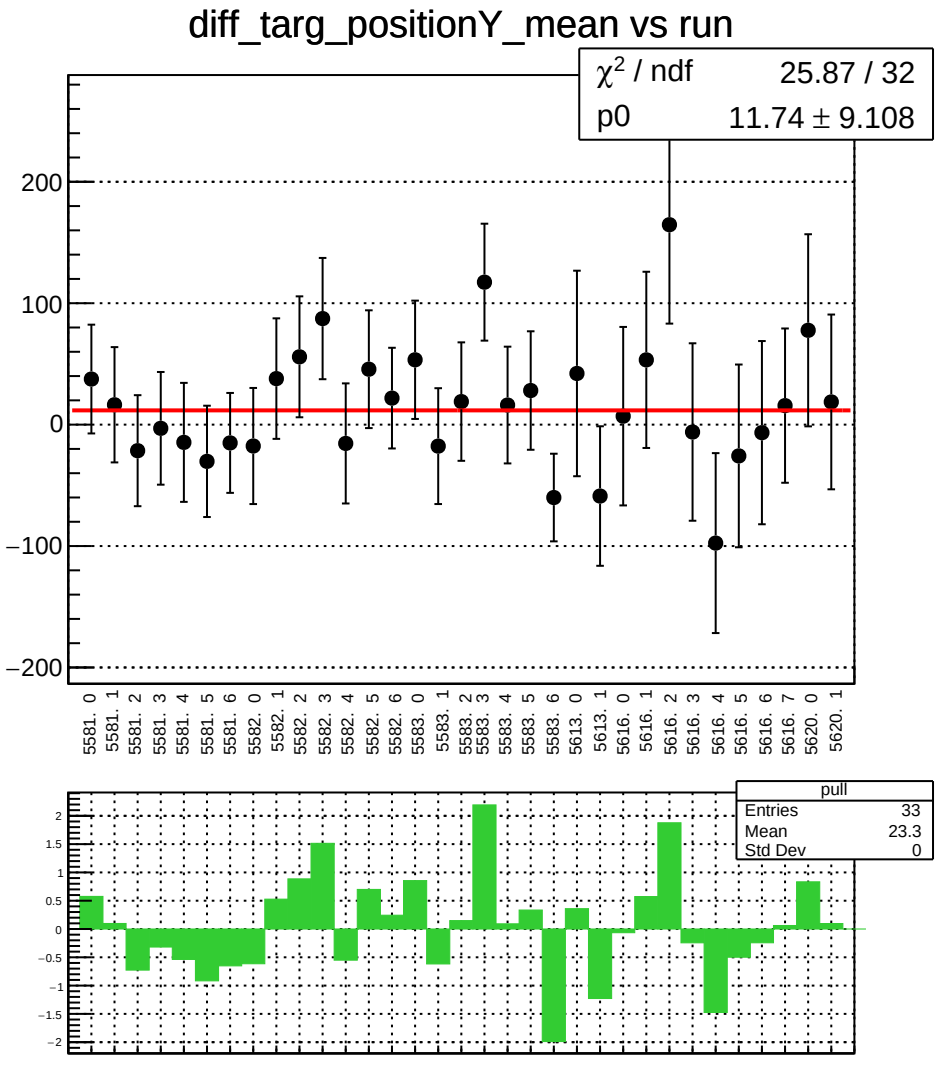

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 542.8 / 32
p0 865.6 ± 1.072
920
900
880
860
840
820
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

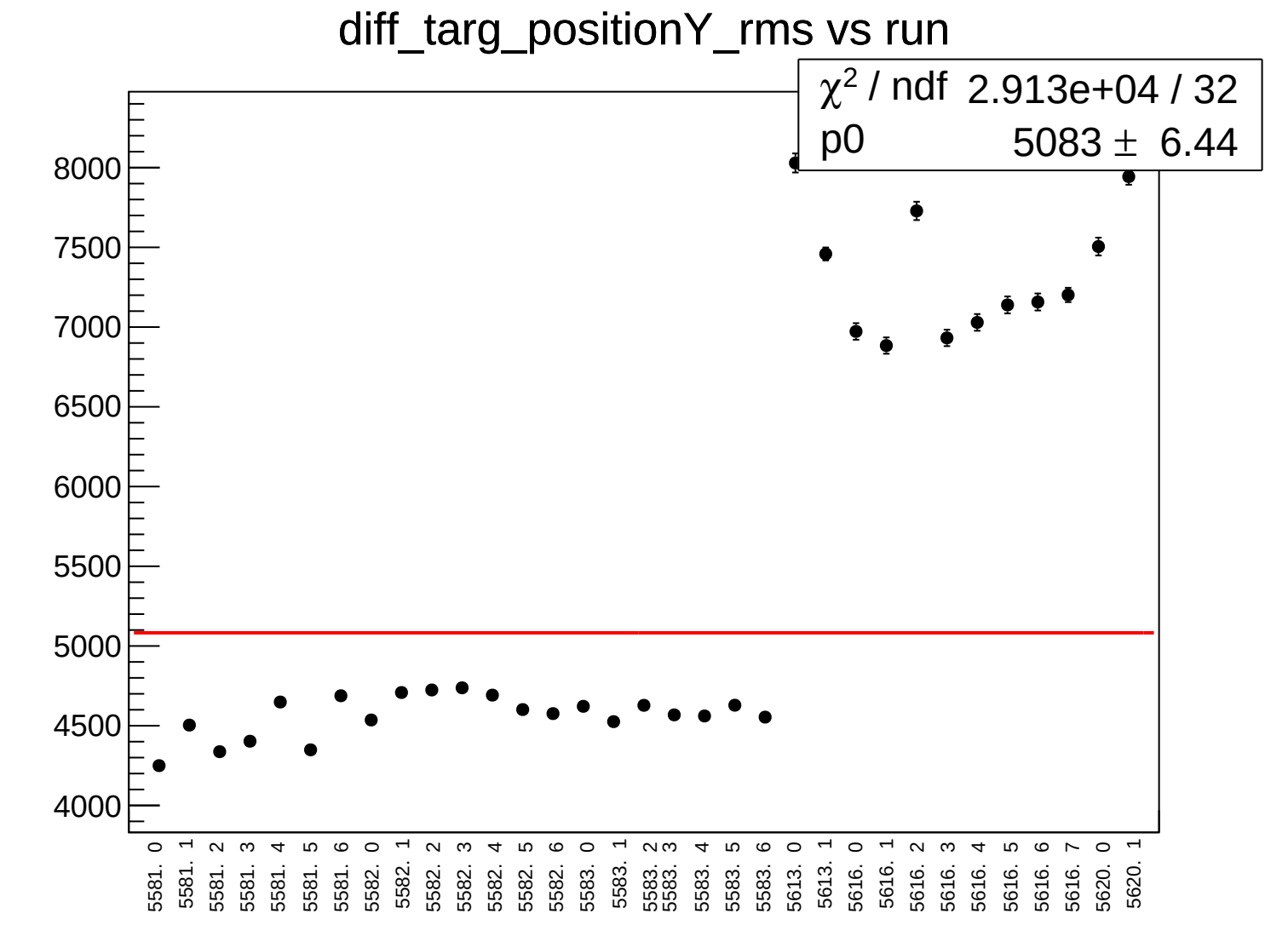

diff_dispE_bpm12X_mean vs run
χ² / ndf 32.6 / 32
p0 0.0002729 ± 0.01126
0.2
0.1
0
−0.1
−0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 86.63
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.03288
Std Dev 0.9933
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

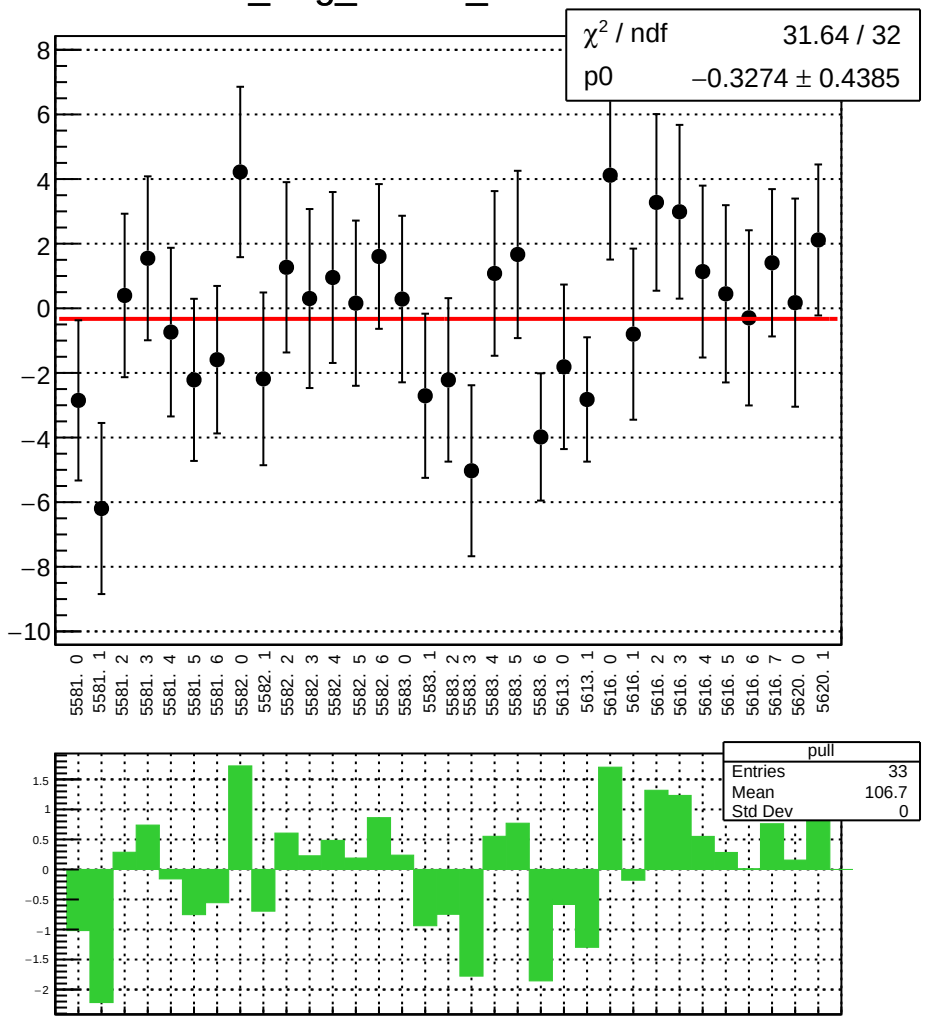

diff_dispE_bpm12X_rms vs run
χ² / ndf 1.43e+04 / 32
p0 6.355 ± 0.007959
9
8.5
8
7.5
7
6.5
6
5.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

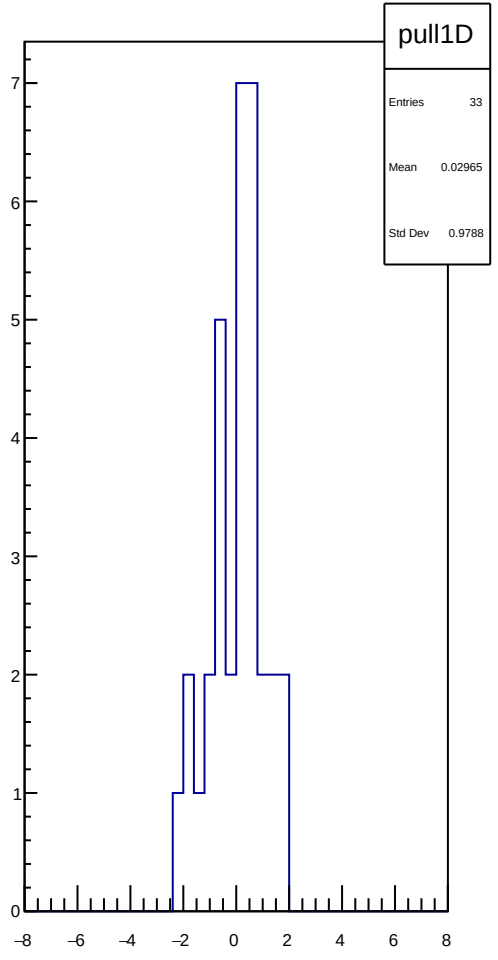

diff_targ_positionX_mean vs run
χ² / ndf 36.46 / 32
p0 −36.46 ± 27.54
400
200
0
−200
−400
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 528
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.001192
Std Dev 1.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

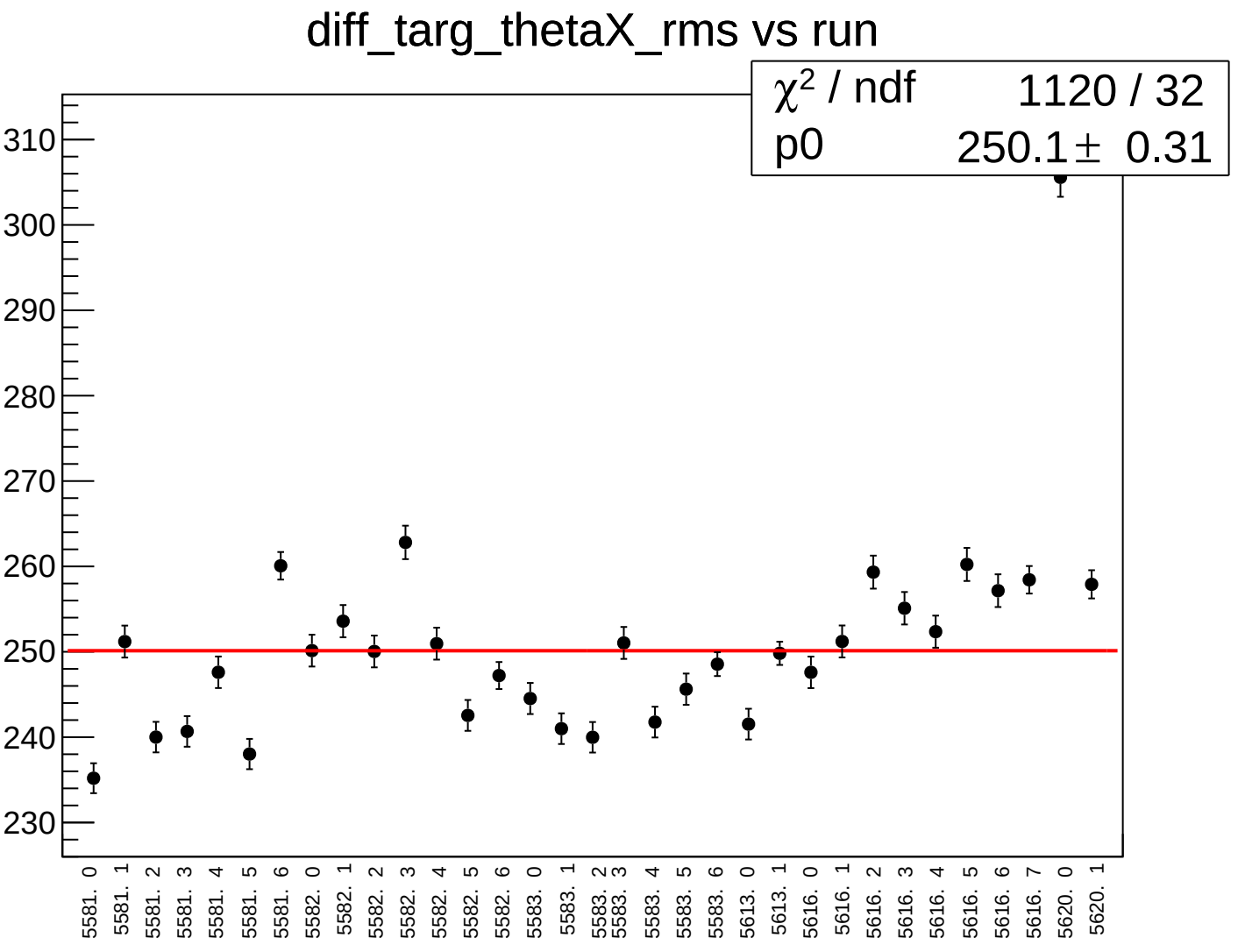

diff_targ_positionX_rms vs run
χ² / ndf 1.015e+04 / 32
p0 1.56e+04 ± 19.48
21000
20000
19000
18000
17000
16000
15000
14000
13000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

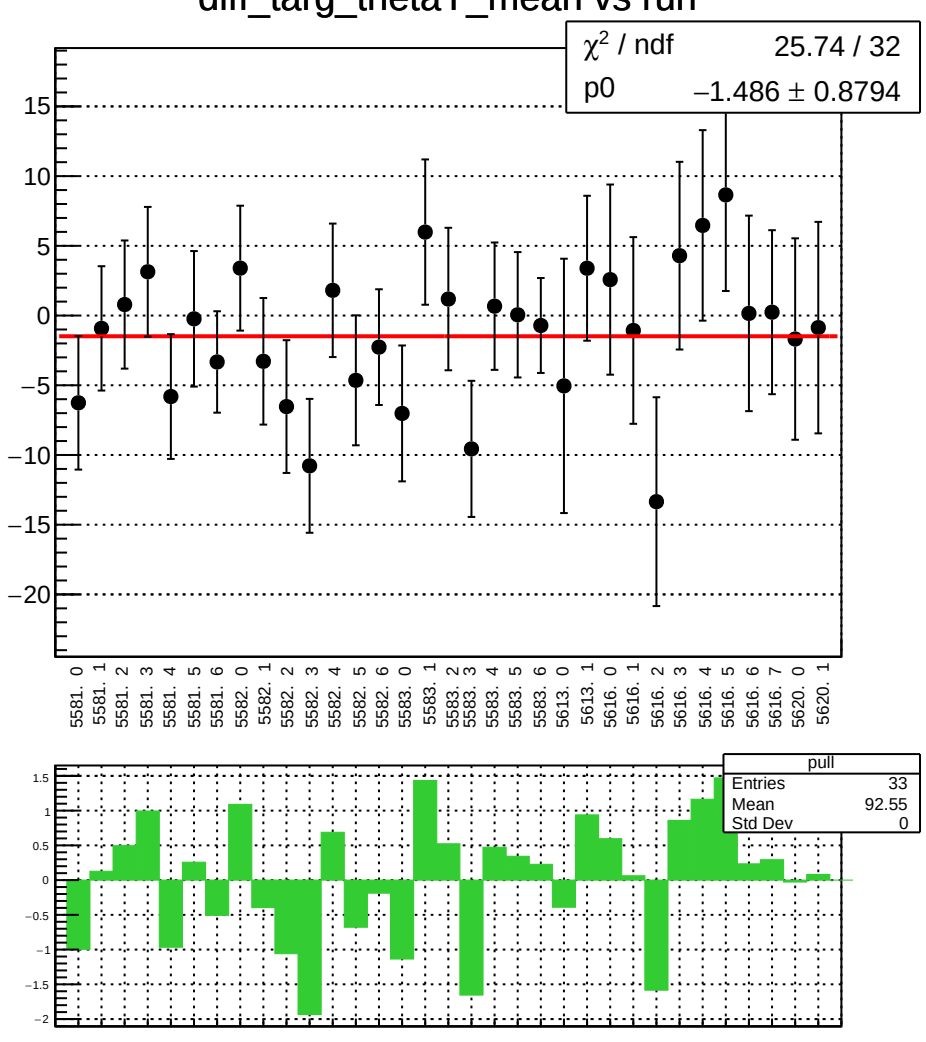

diff_targ_positionY_mean vs run
χ² / ndf 25.87 / 32
p0 11.74 ± 9.108
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.03926
Std Dev 0.8845
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

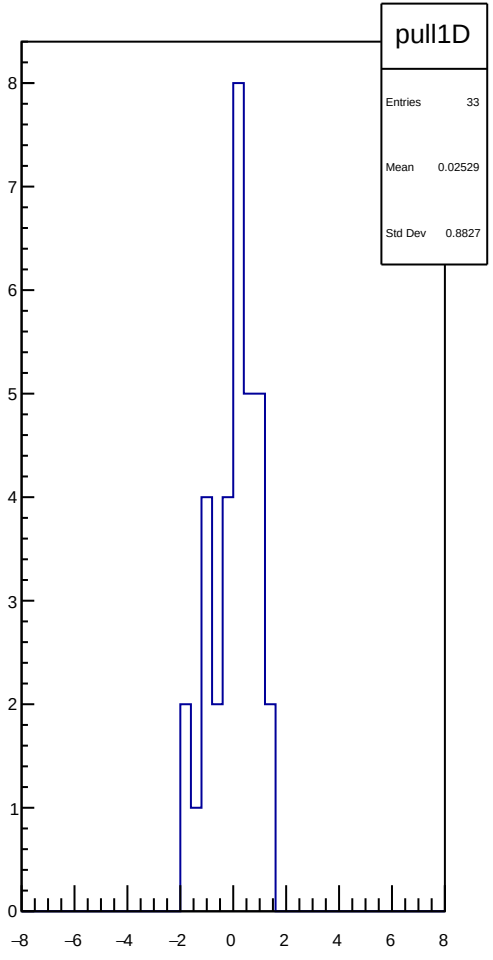

diff_targ_positionY_rms vs run
χ² / ndf 2.913e+04 / 32
p0 5083 ± 6.44
8000
7500
7000
6500
6000
5500
5000
4500
4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

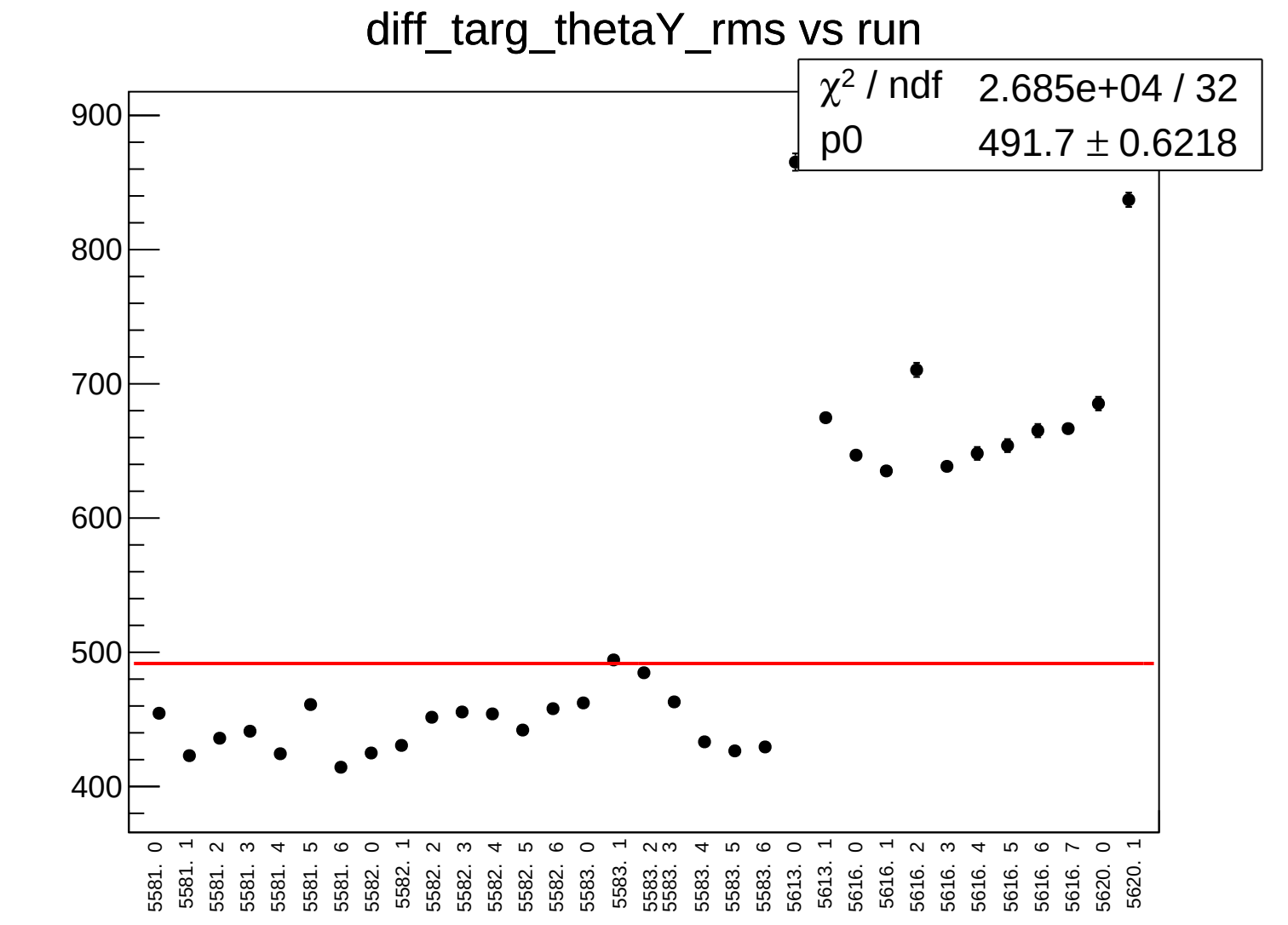

diff_targ_thetaX_mean vs run
χ² / ndf 31.64 / 32
p0 −0.3274 ± 0.4385
pull
Entries 33
Mean 106.7
Std Dev 0

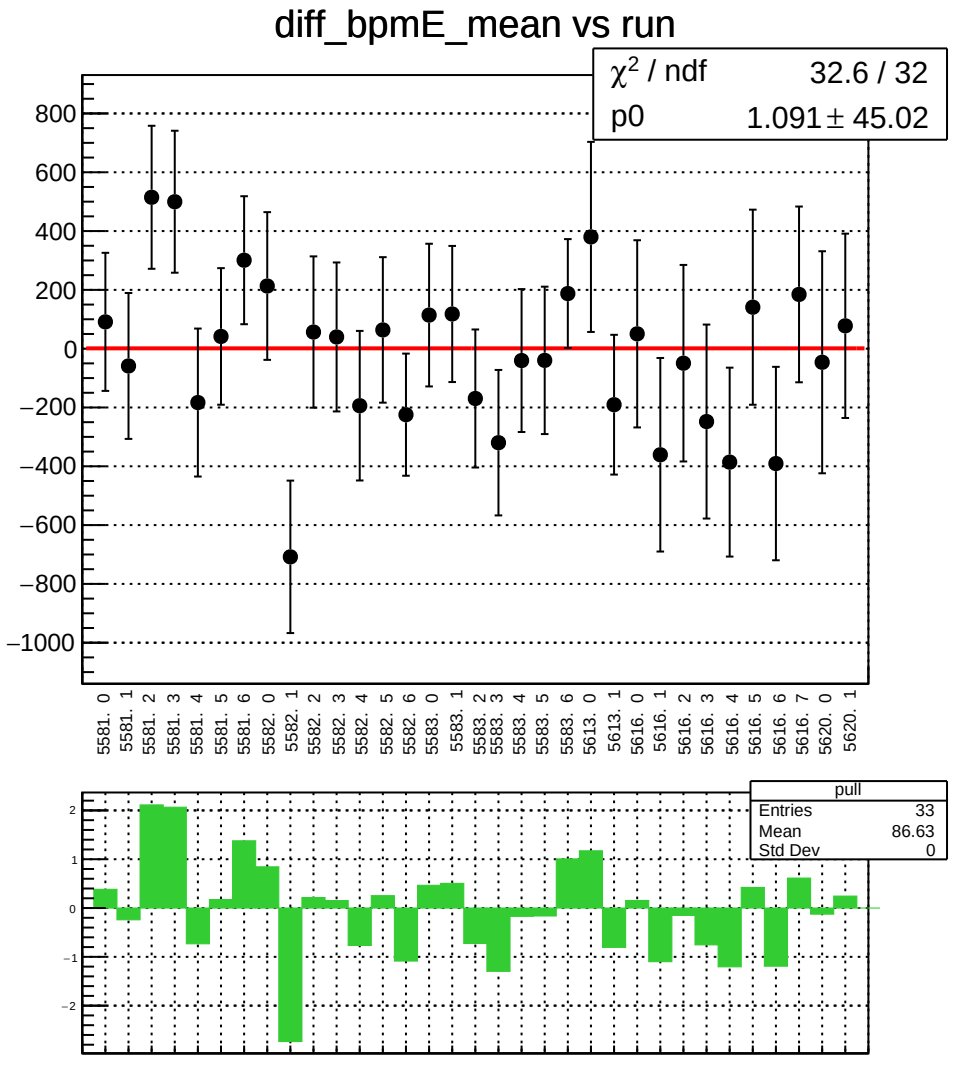

pull1D
Entries 33
Mean 0.02965
Std Dev 0.9788

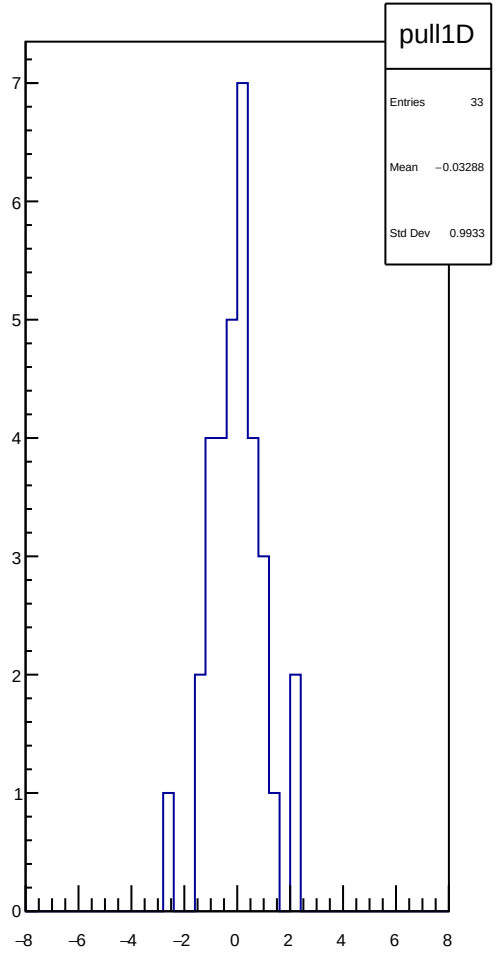

diff_targ_thetaX_rms vs run
χ² / ndf 1120 / 32
p0 250.1 ± 0.31
310
300
290
280
270
260
250
240
230
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

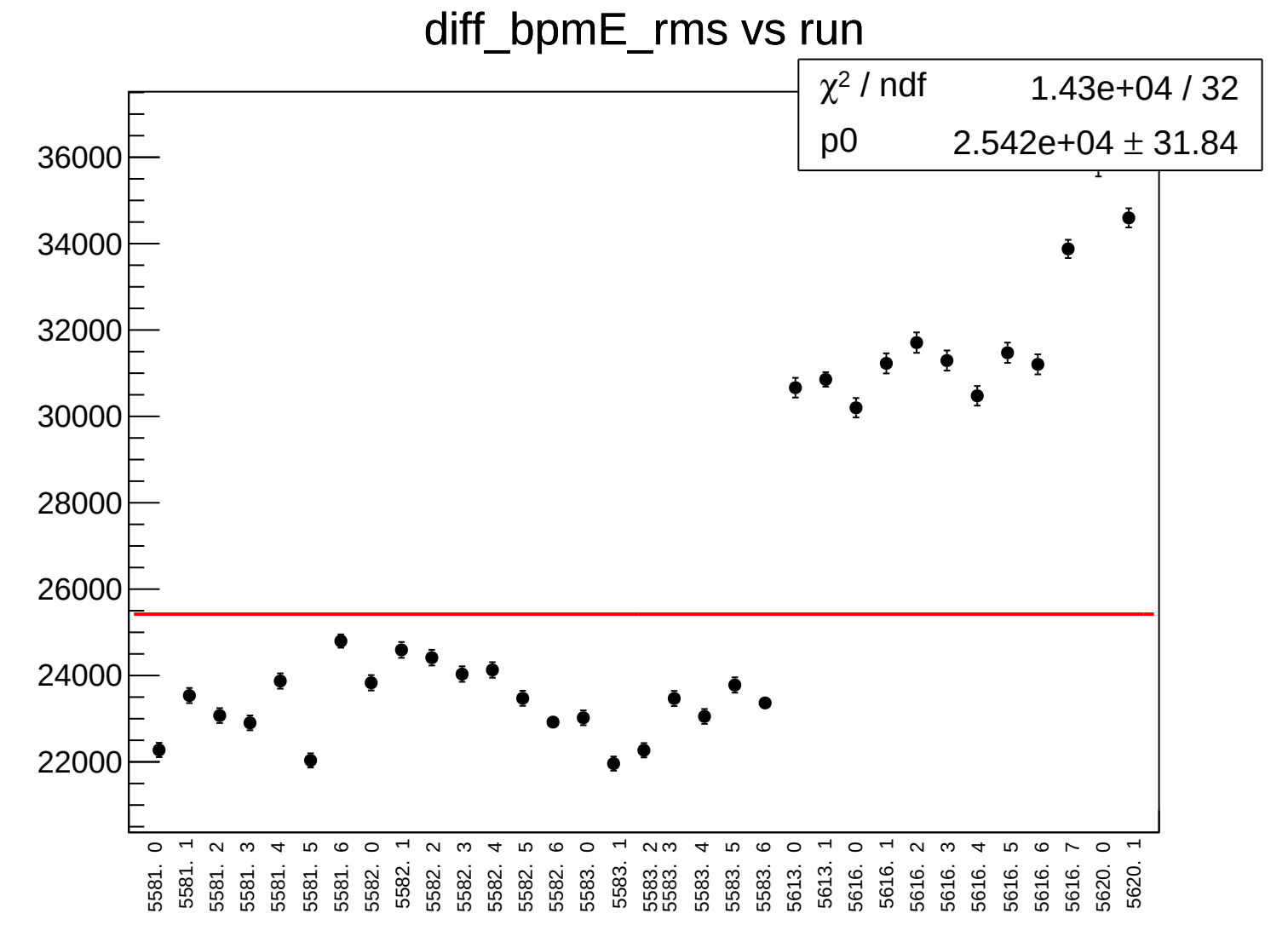

diff_targ_thetaY_mean vs run
χ² / ndf 25.74 / 32
p0 −1.486 ± 0.8794
15
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 92.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

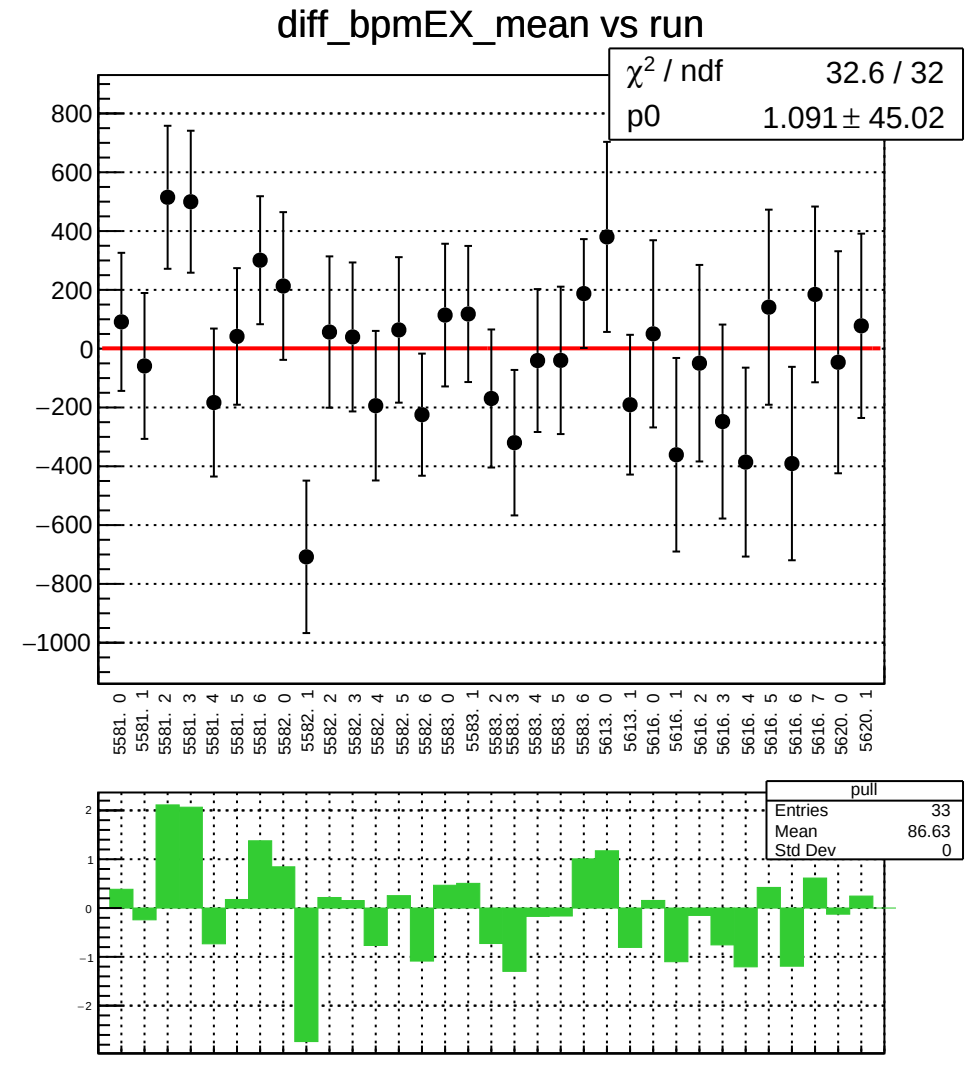

pull1D
Entries 33
Mean 0.02529
Std Dev 0.8827
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

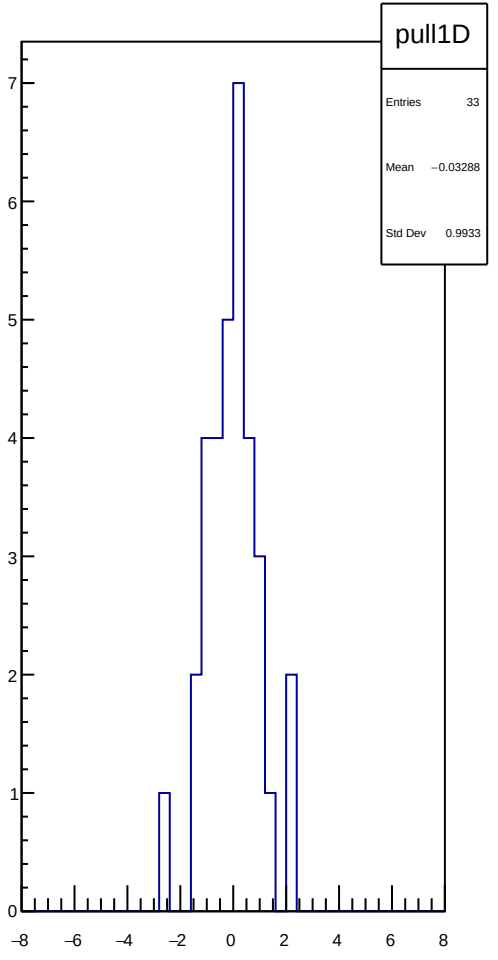

diff_targ_thetaY_rms vs run
χ² / ndf 2.685e+04 / 32
p0 491.7 ± 0.6218
900
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

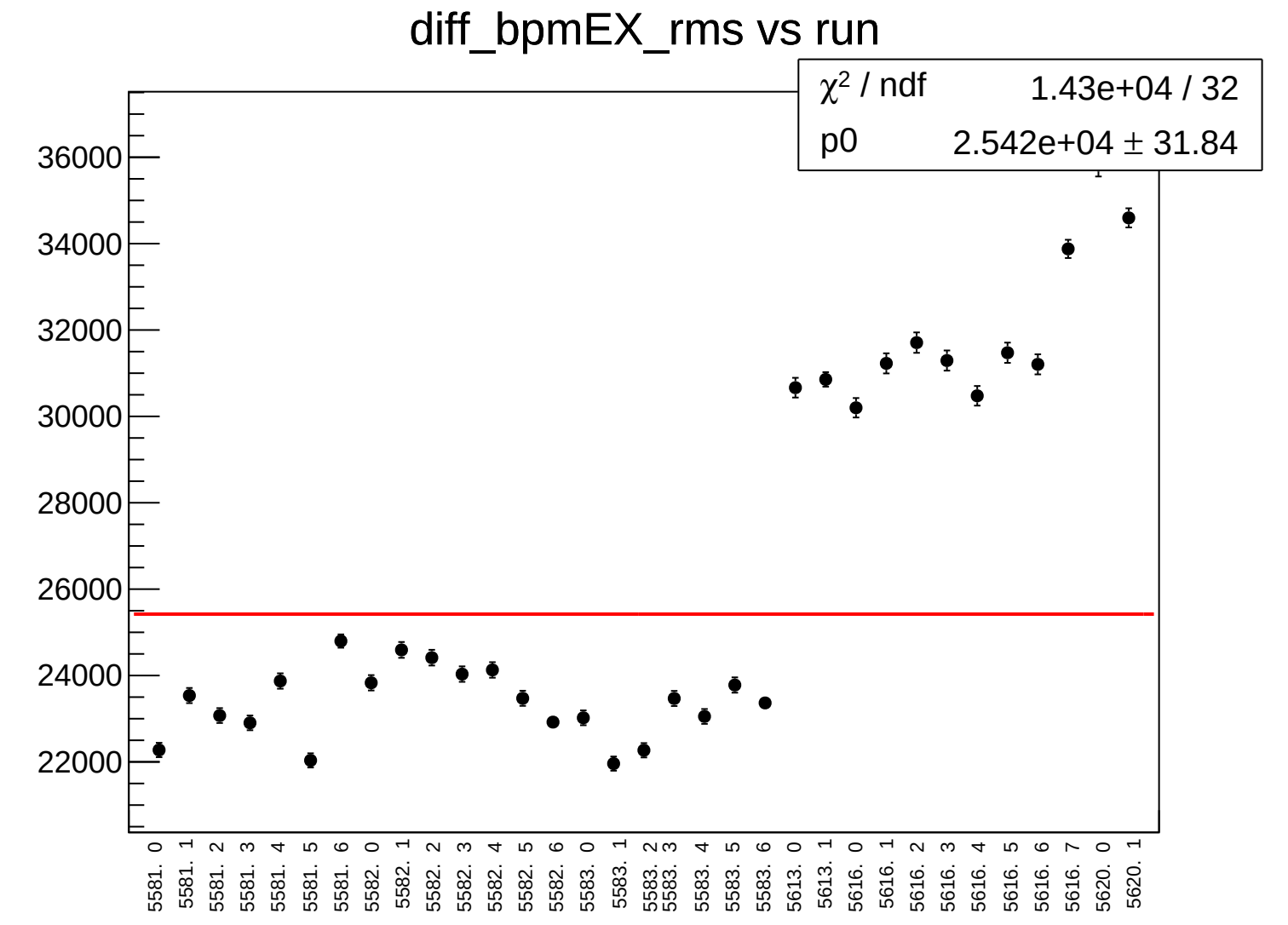

diff_bpmE_mean vs run
χ^2 / ndf 32.6 / 32
p0 1.091 ± 45.02
800
600
400
200
0
−200
−400
−600
−800
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 86.63
Std Dev 0
2
1
0
−1
−2

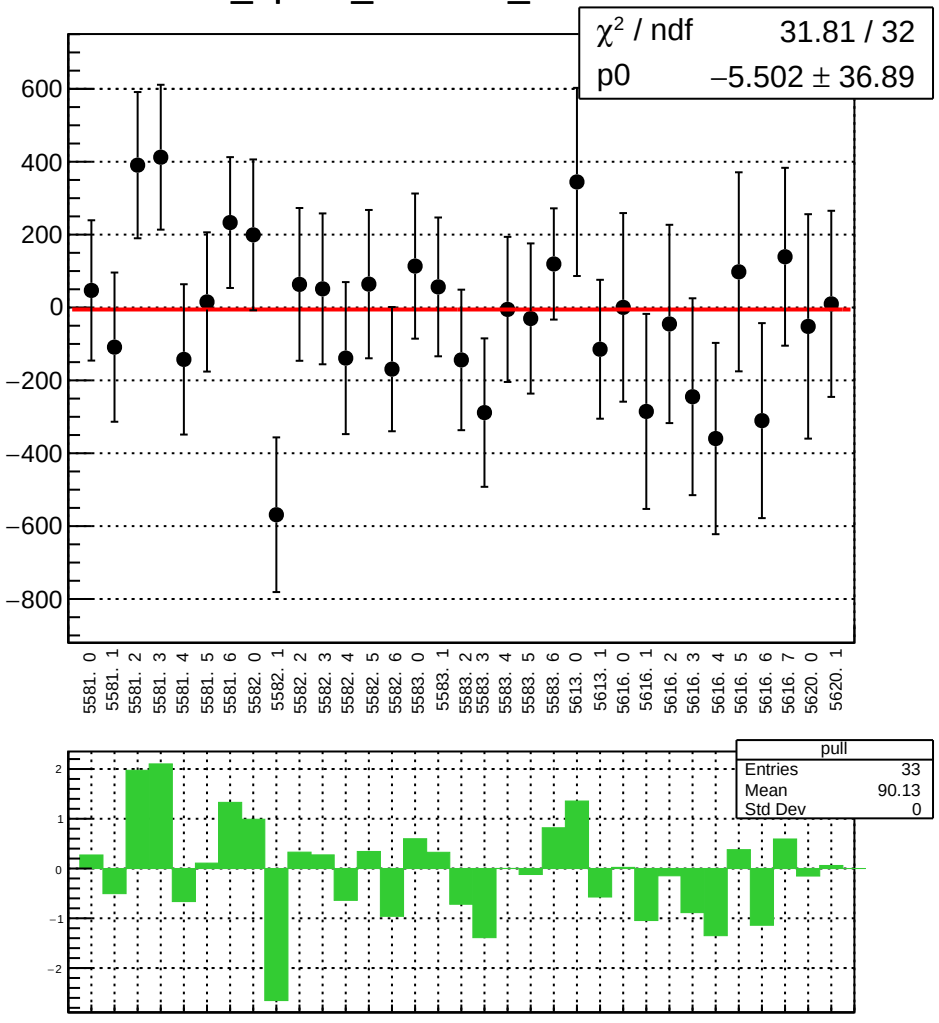

pull1D
Entries 33
Mean −0.03288
Std Dev 0.9933
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

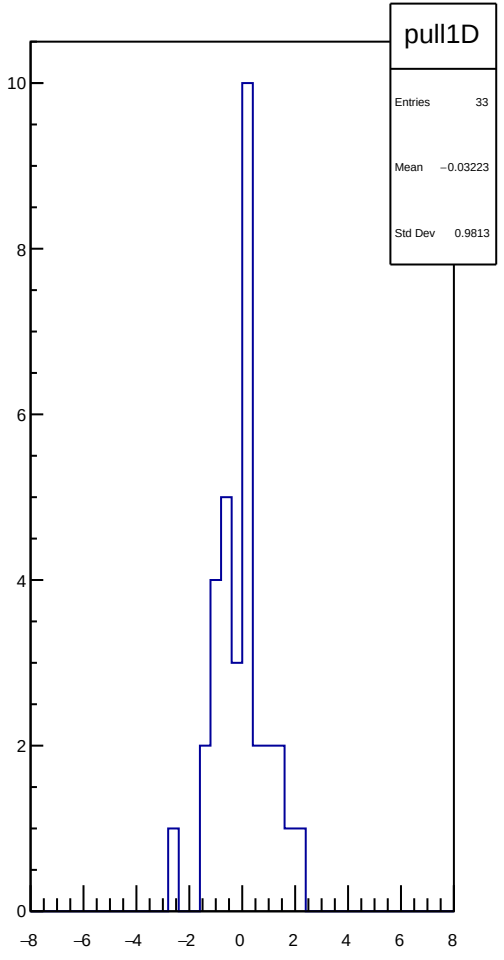

diff_bpmE_rms vs run
χ² / ndf 1.43e+04 / 32
p0 2.542e+04 ± 31.84
36000
34000
32000
30000
28000
26000
24000
22000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

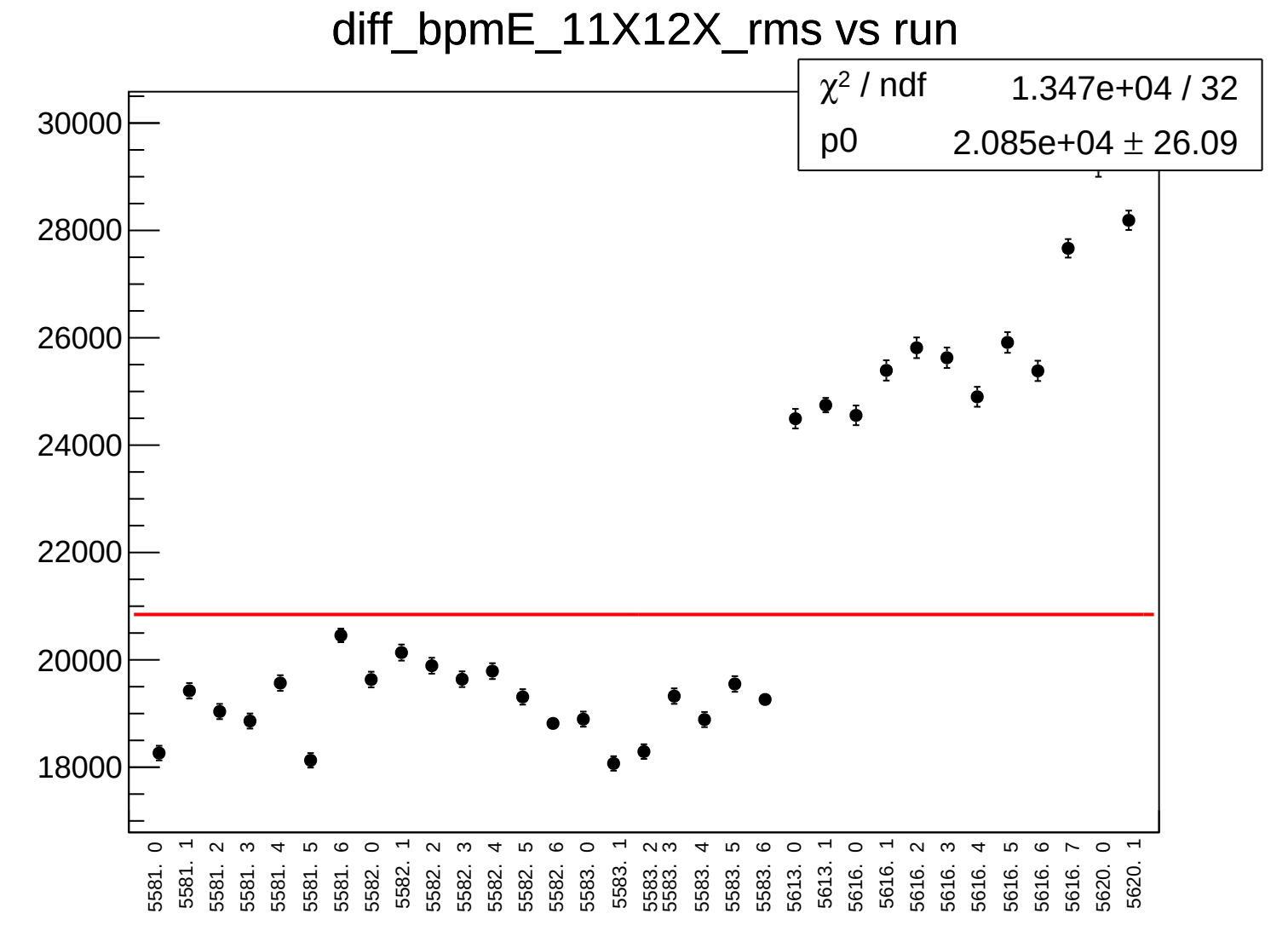

diff_bpmEX_mean vs run
χ² / ndf 32.6 / 32
p0 1.091 ± 45.02
pull
Entries 33
Mean 86.63
Std Dev 0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

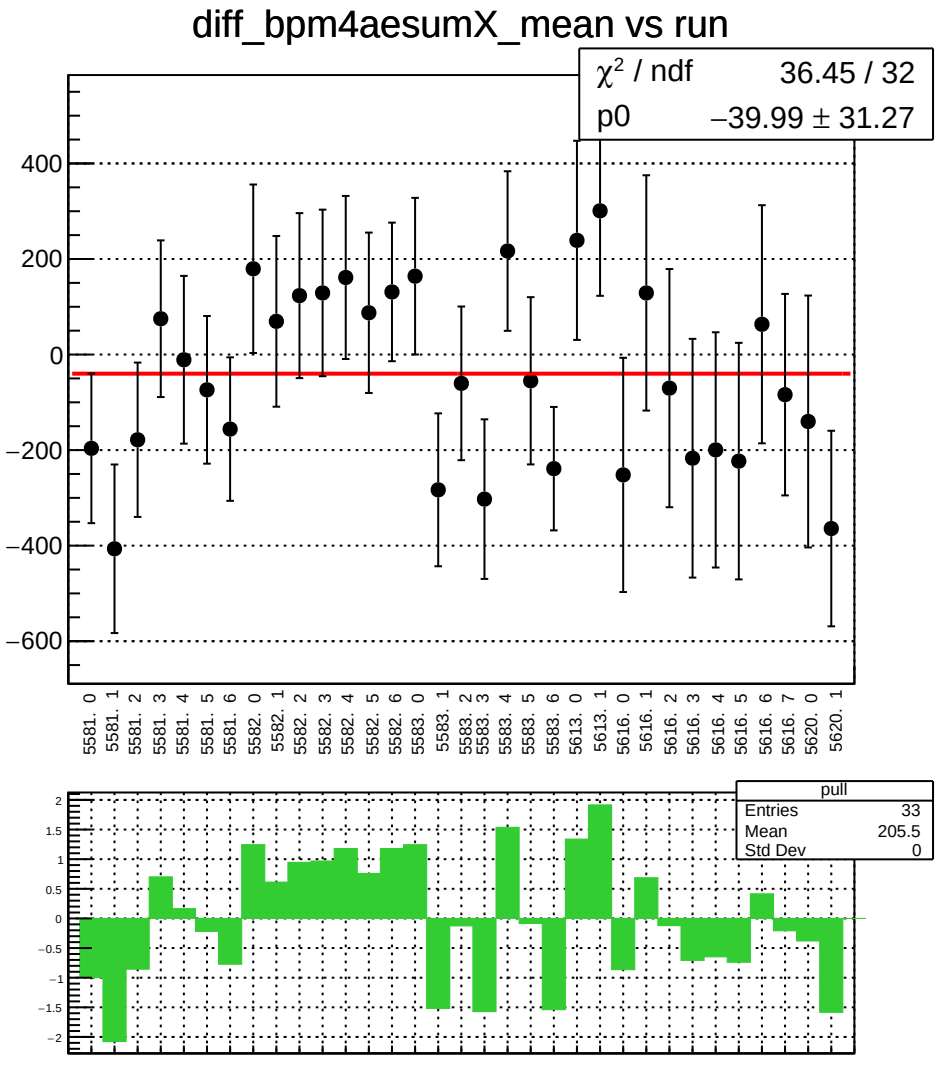

pull1D
Entries 33
Mean −0.03288
Std Dev 0.9933

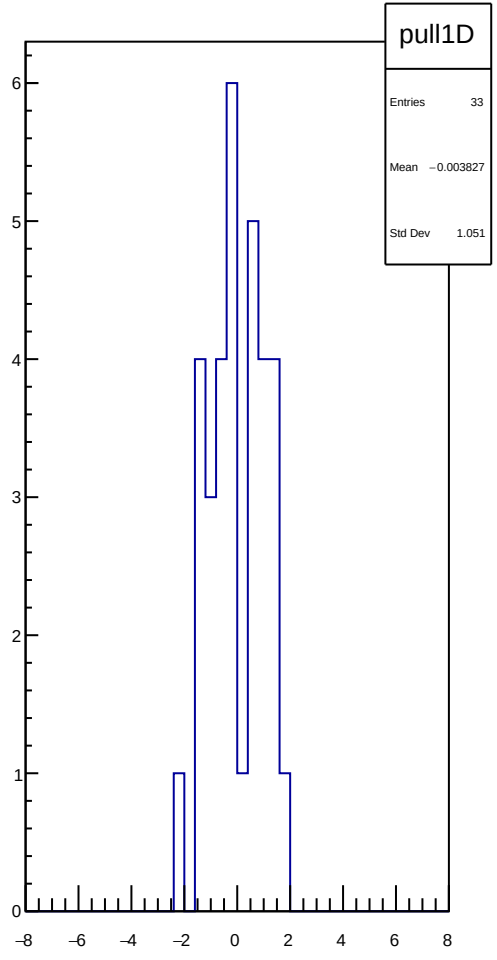

diff_bpmEX_rms vs run
χ² / ndf 1.43e+04 / 32
p0 2.542e+04 ± 31.84
36000
34000
32000
30000
28000
26000
24000
22000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

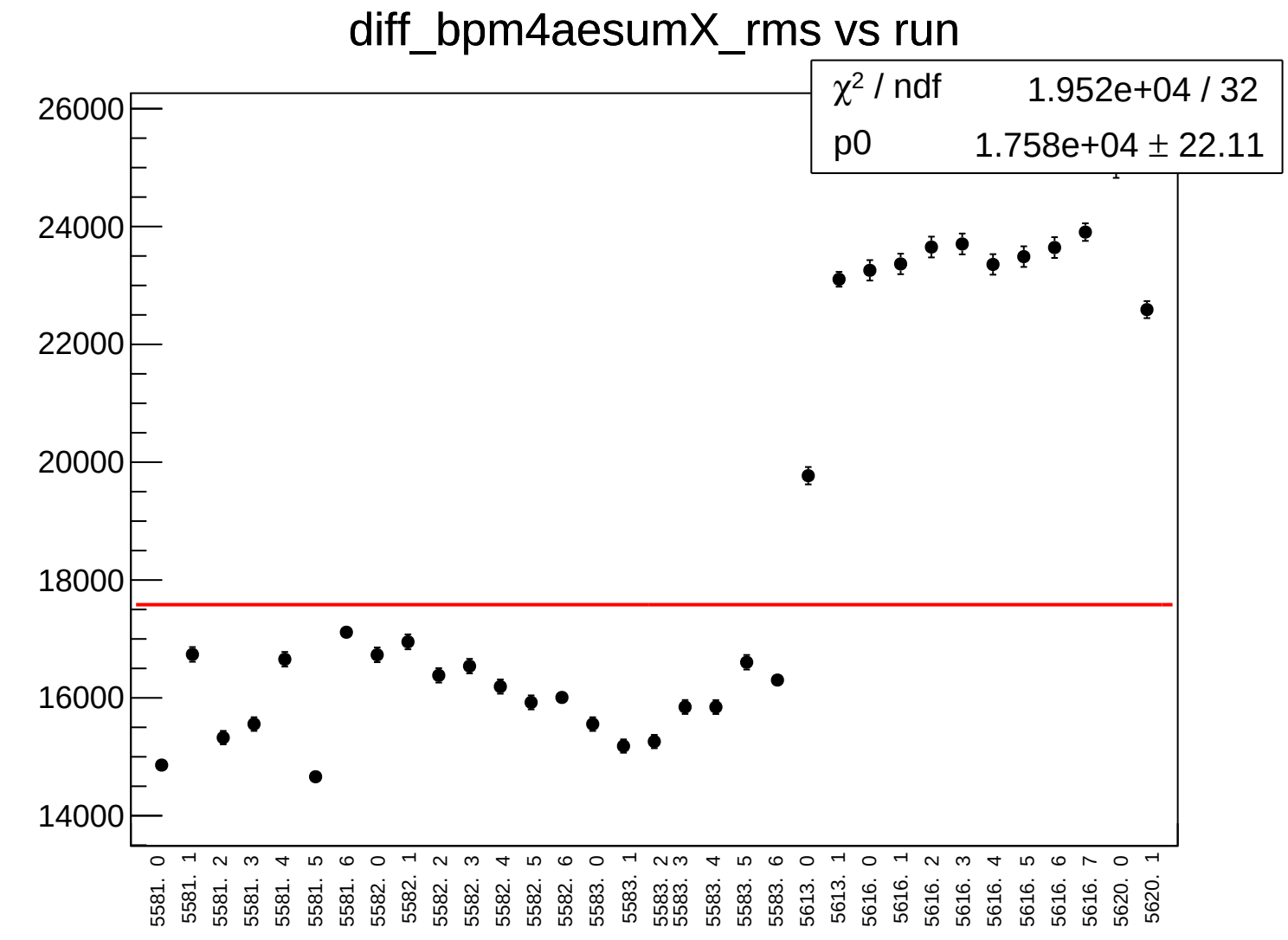

diff_bpmE_11X12X_mean vs run
χ² / ndf 31.81 / 32
p0 −5.502 ± 36.89
600
400
200
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 90.13
Std Dev 0
2
1
0
−1
−2

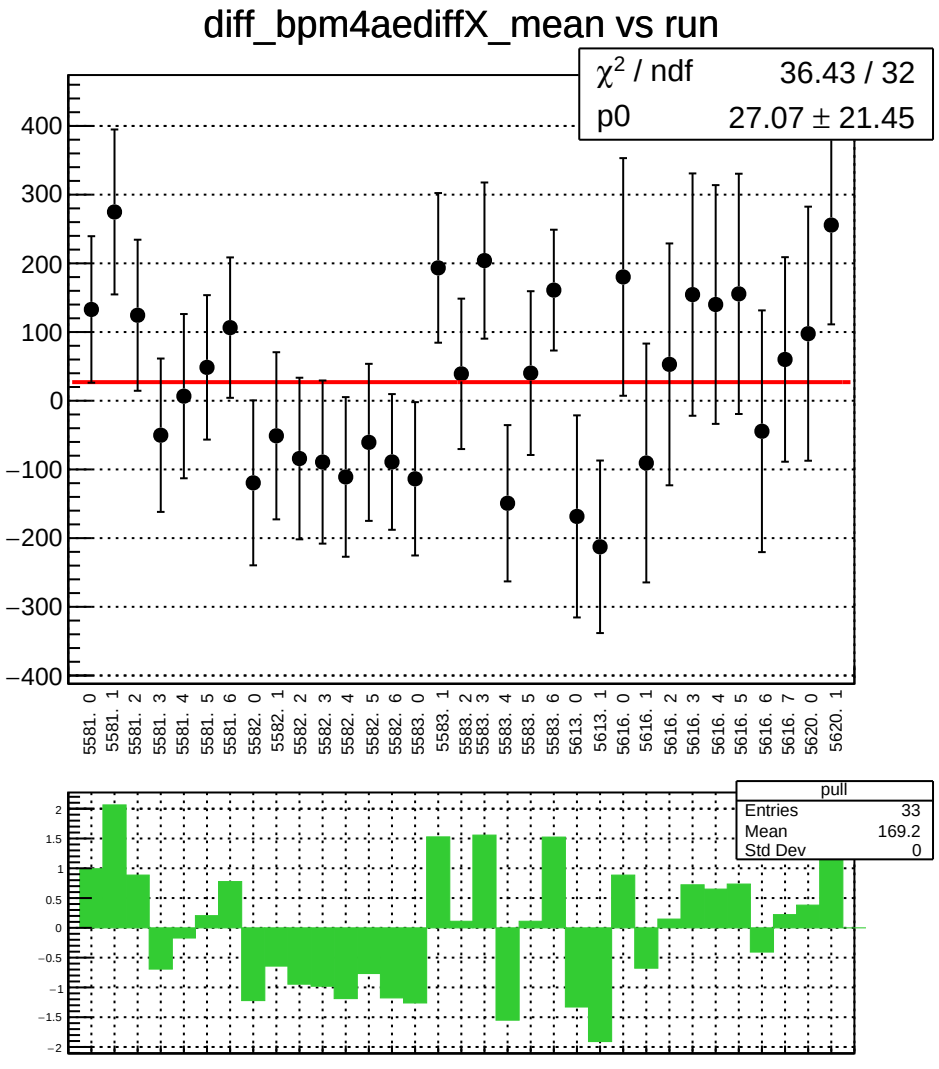

pull1D
Entries 33
Mean −0.03223
Std Dev 0.9813
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

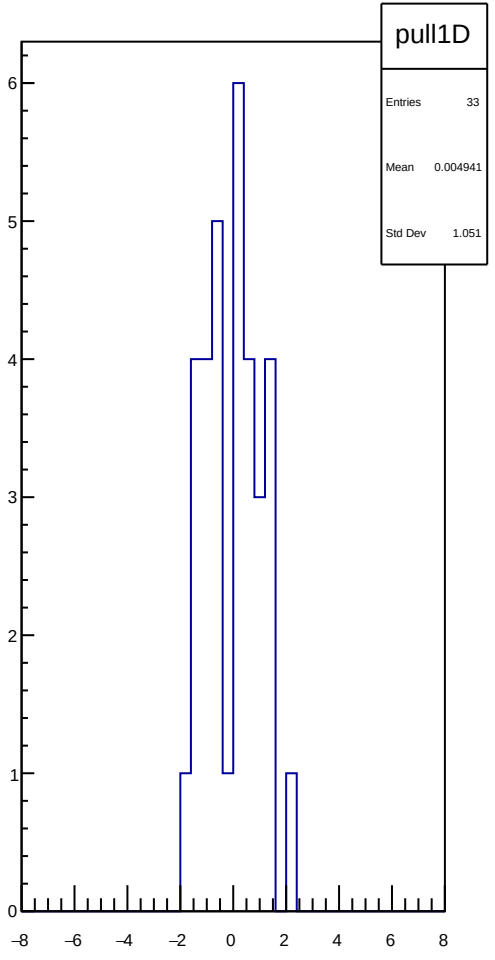

diff_bpmE_11X12X_rms vs run
χ² / ndf 1.347e+04 / 32
p0 2.085e+04 ± 26.09
30000
28000
26000
24000
22000
20000
18000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

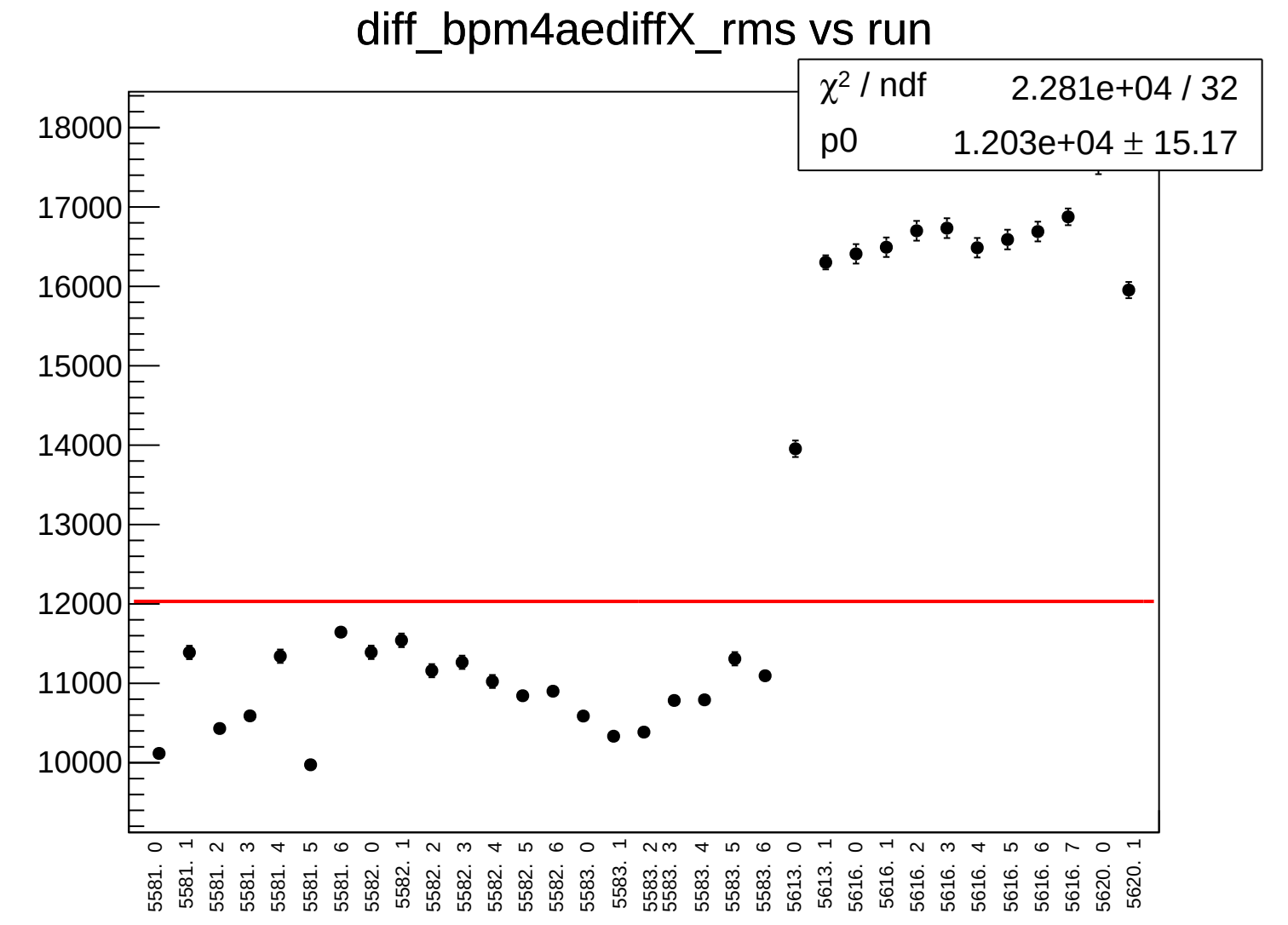

diff_bpm4aesumX_mean vs run
χ² / ndf 36.45 / 32
p0 −39.99 ± 31.27
400
200
0
−200
−400
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 205.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

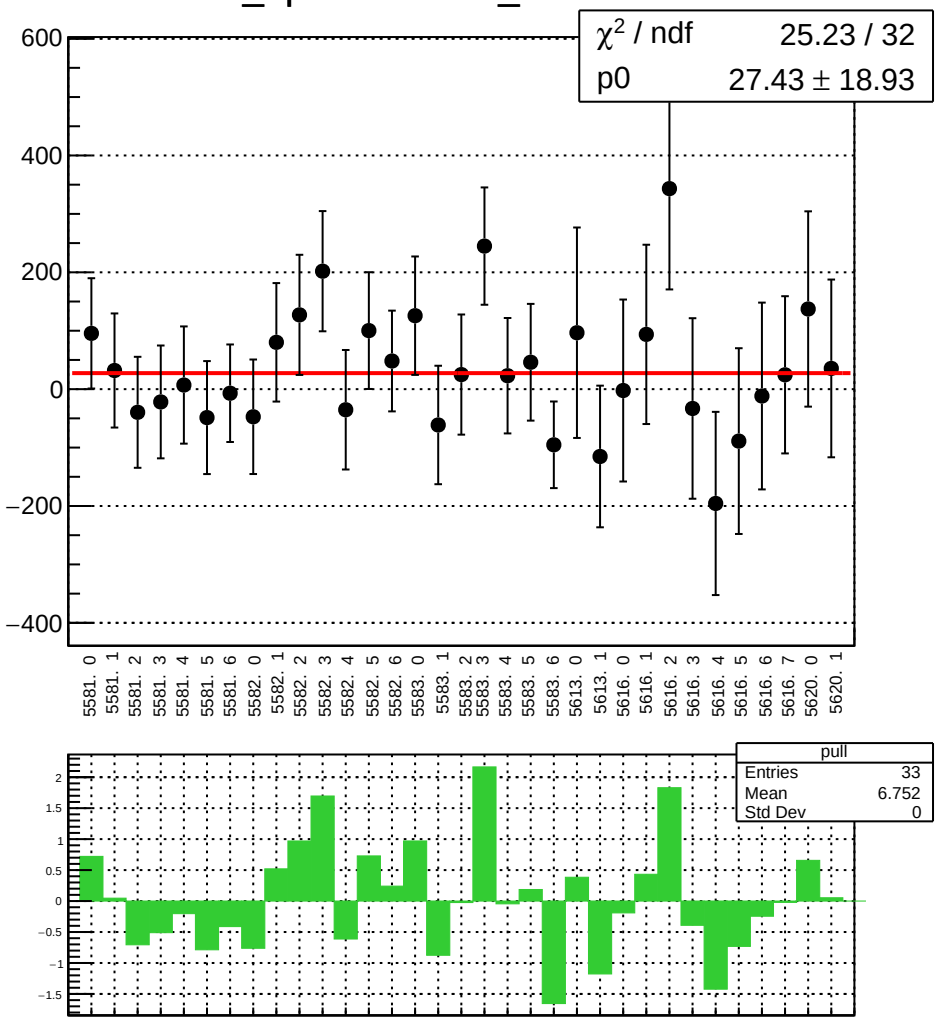

pull1D
Entries 33
Mean −0.003827
Std Dev 1.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

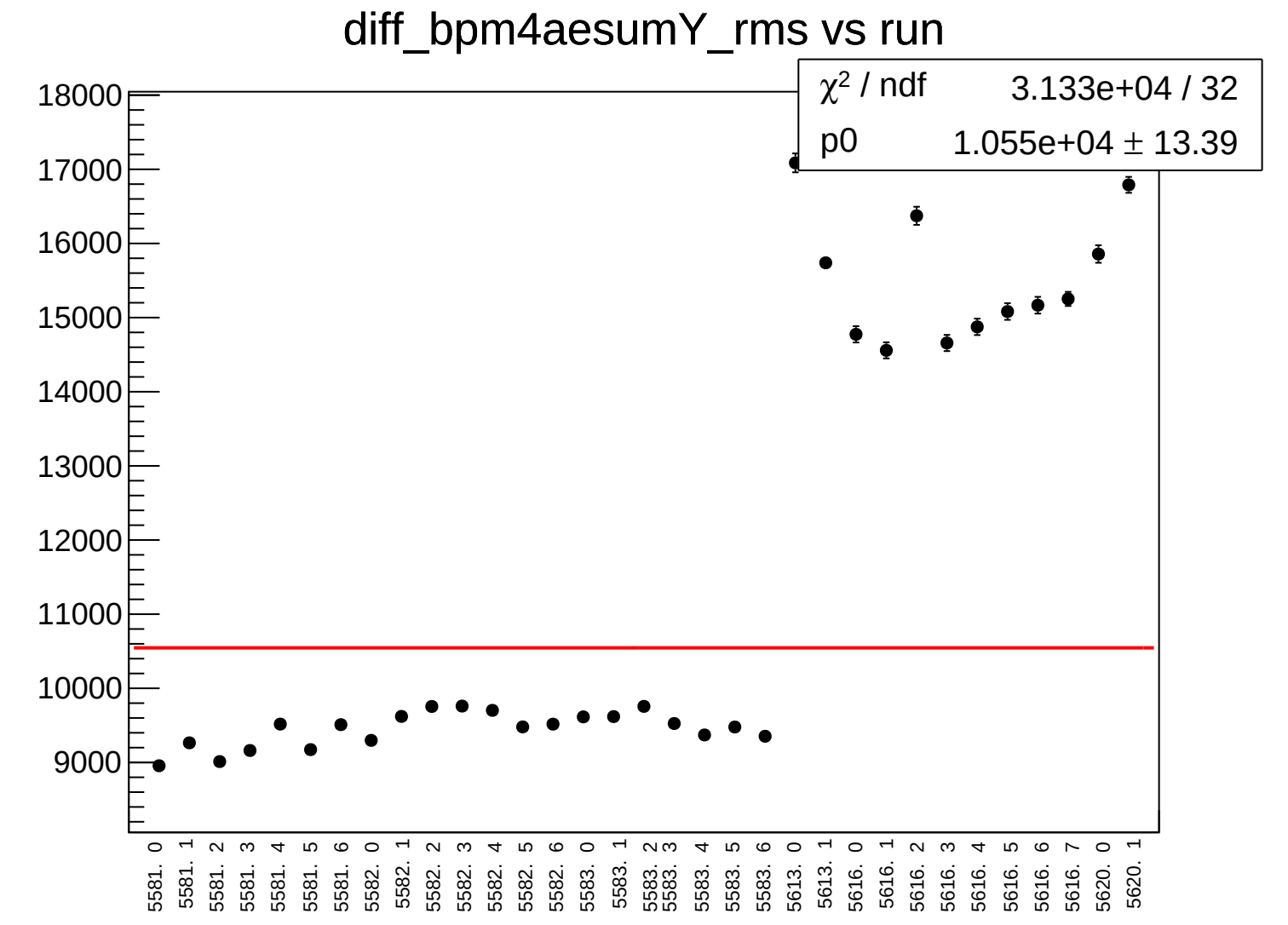

diff_bpm4aesumX_rms vs run
χ² / ndf 1.952e+04 / 32
p0 1.758e+04 ± 22.11
26000
24000
22000
20000
18000
16000
14000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

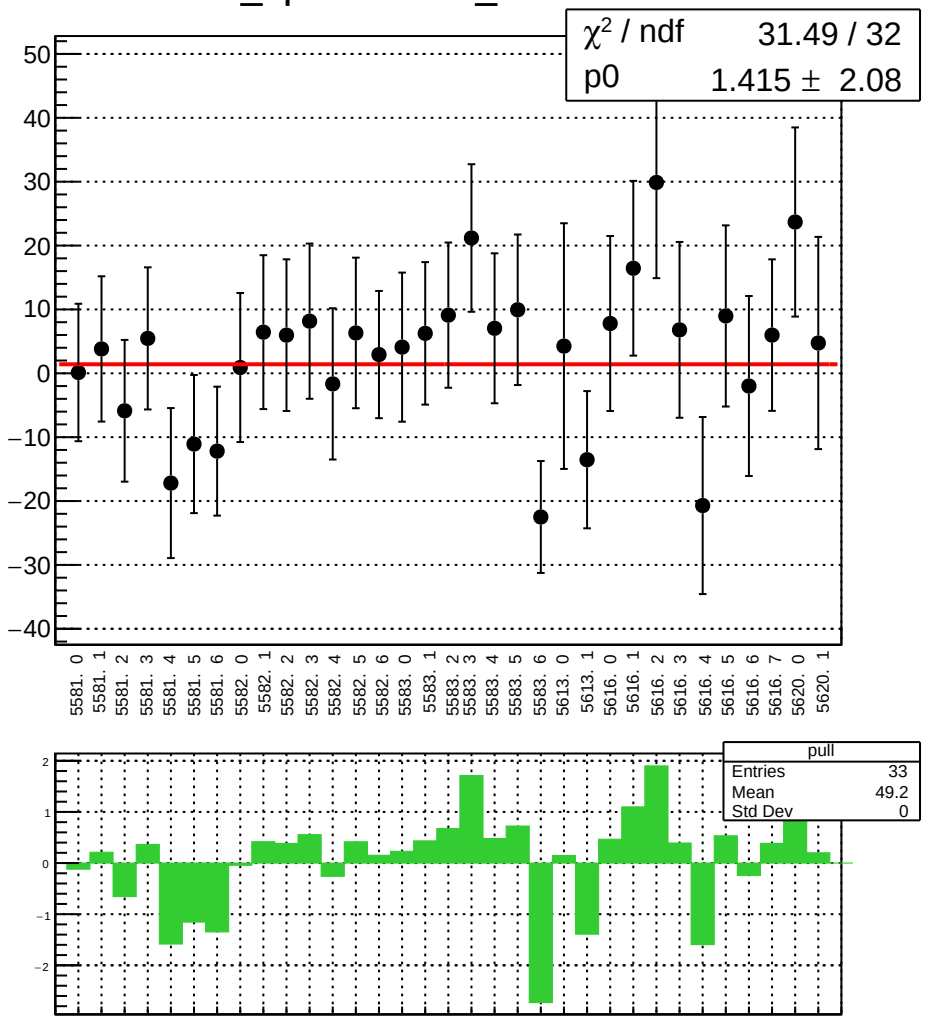

diff_bpm4aediffX_mean vs run
χ² / ndf 36.43 / 32
p0 27.07 ± 21.45
400
300
200
100
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 169.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

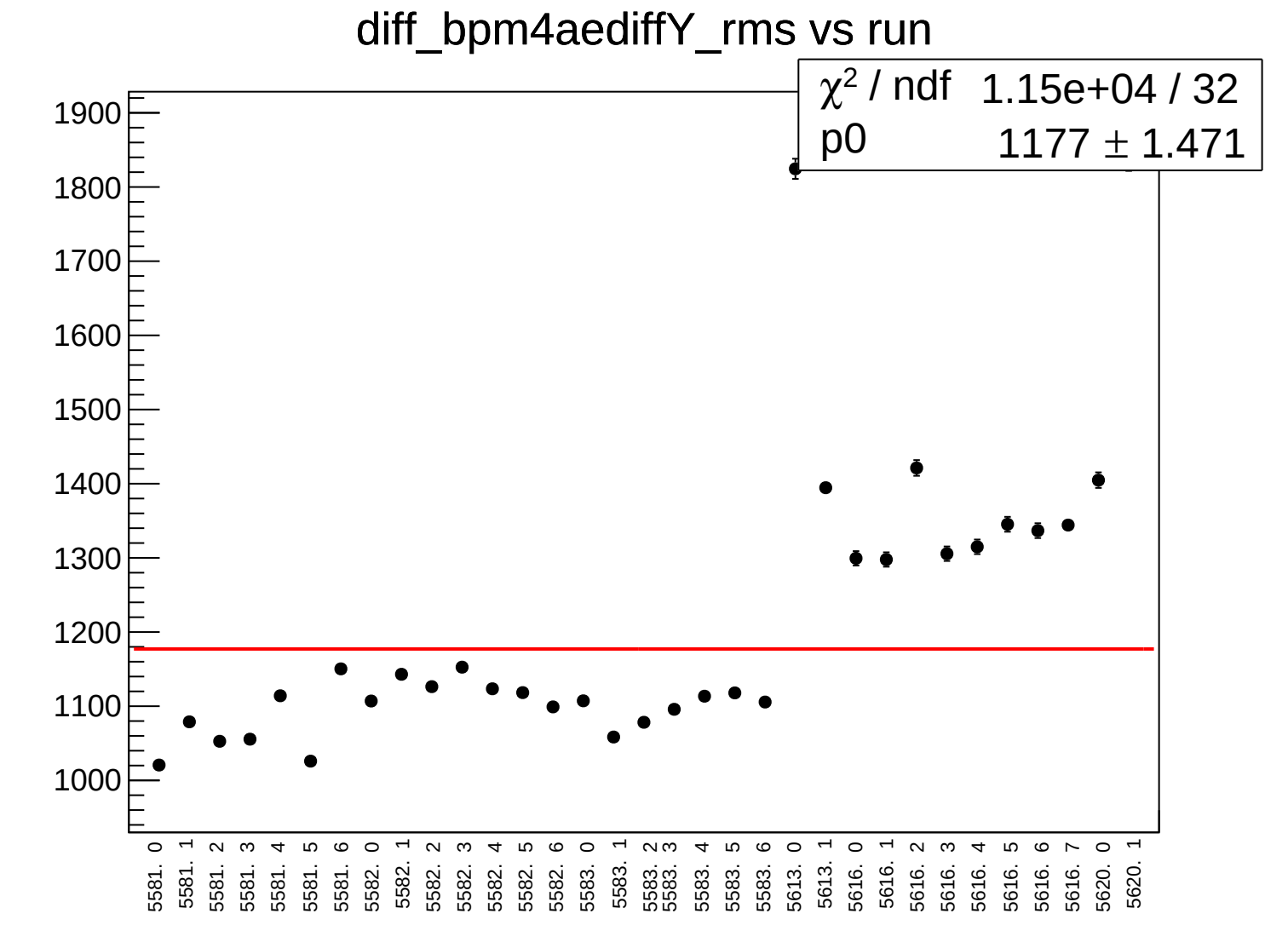

pull1D
Entries 33
Mean 0.004941
Std Dev 1.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

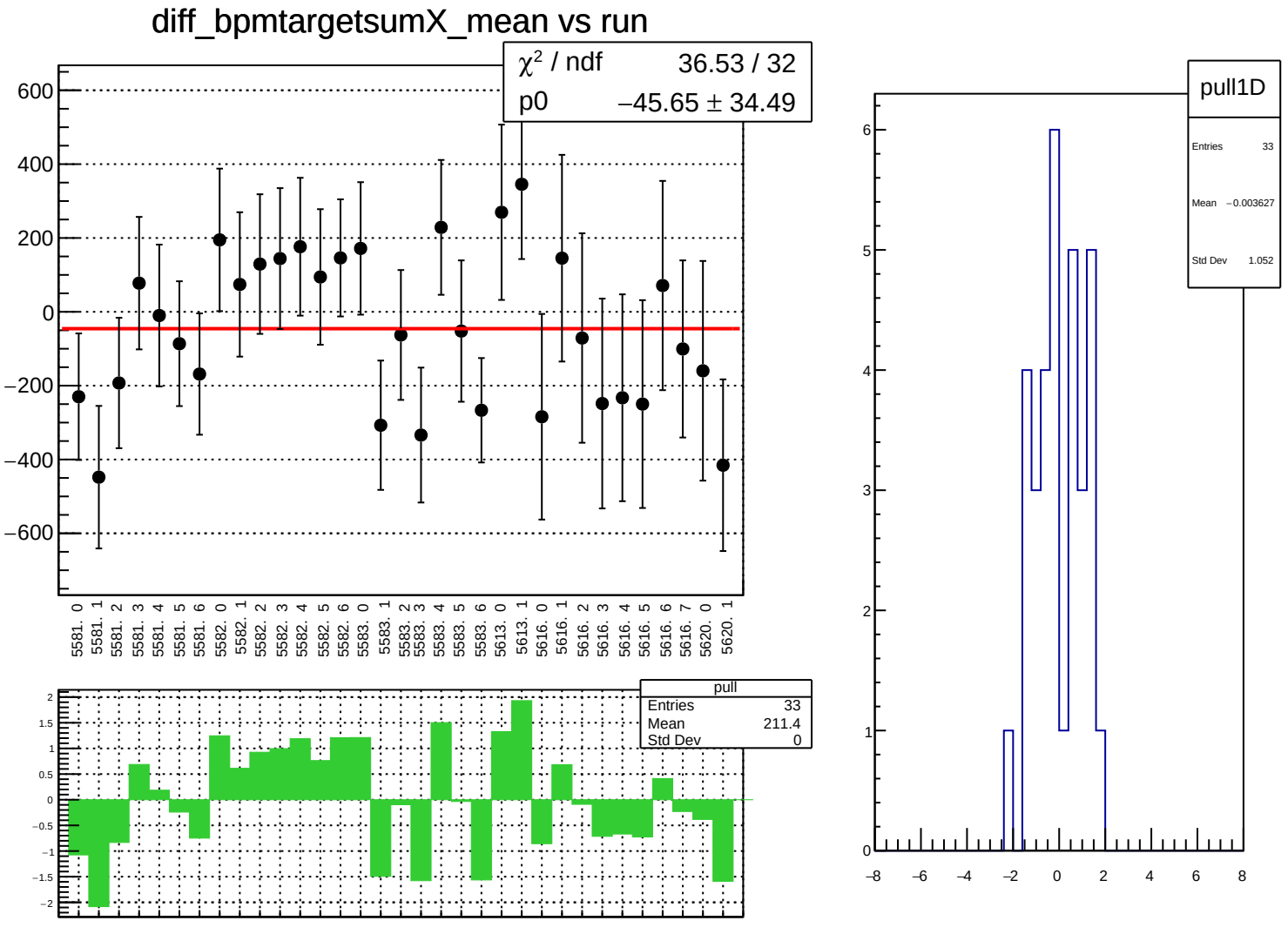

diff_bpm4aediffX_rms vs run
χ² / ndf 2.281e+04 / 32
p0 1.203e+04 ± 15.17
18000
17000
16000
15000
14000
13000
12000
11000
10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

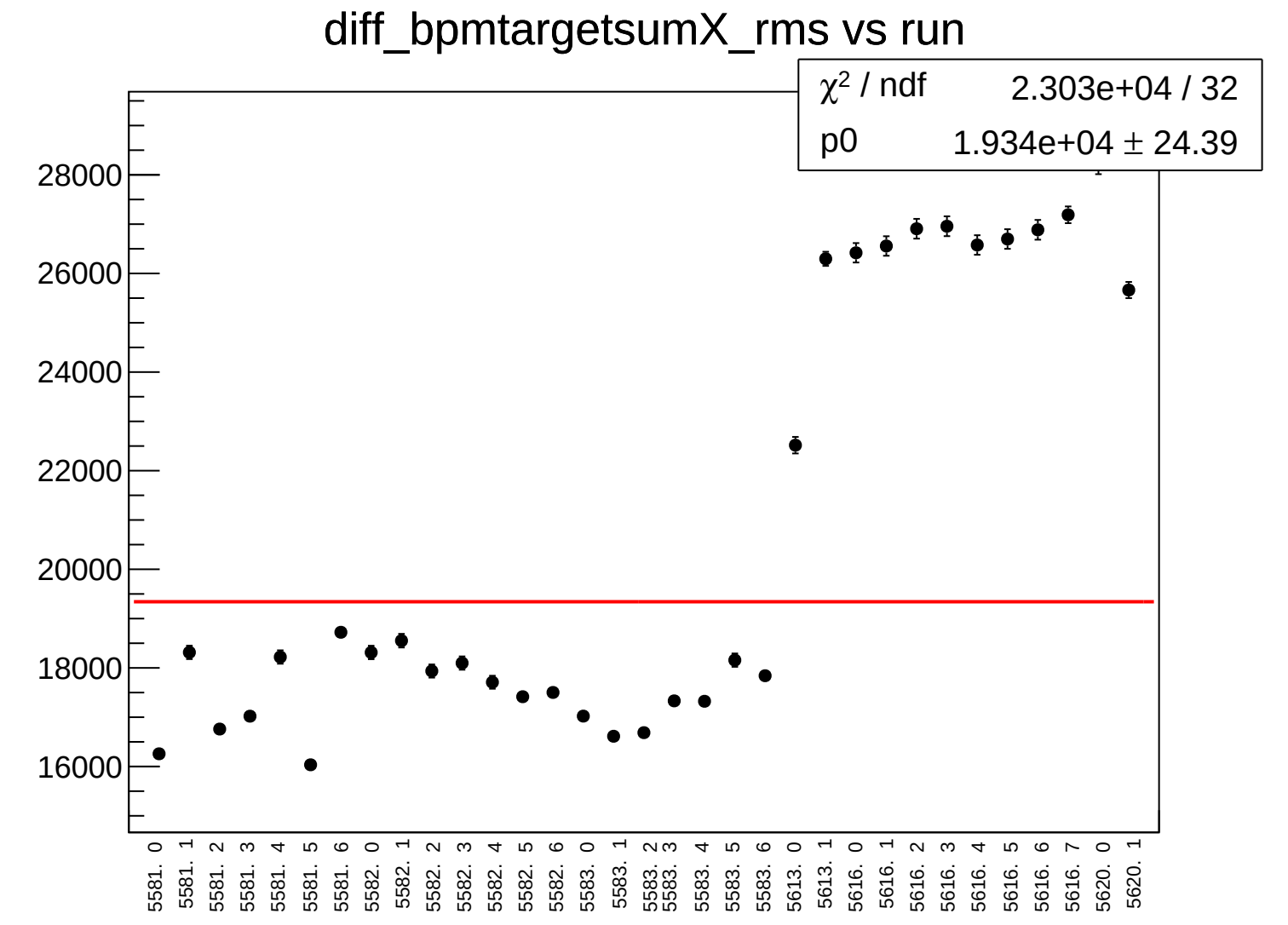

diff_bpm4aesumY_mean vs run
χ² / ndf 25.23 / 32
p0 27.43 ± 18.93
600
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 6.752
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.02507
Std Dev 0.8741
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

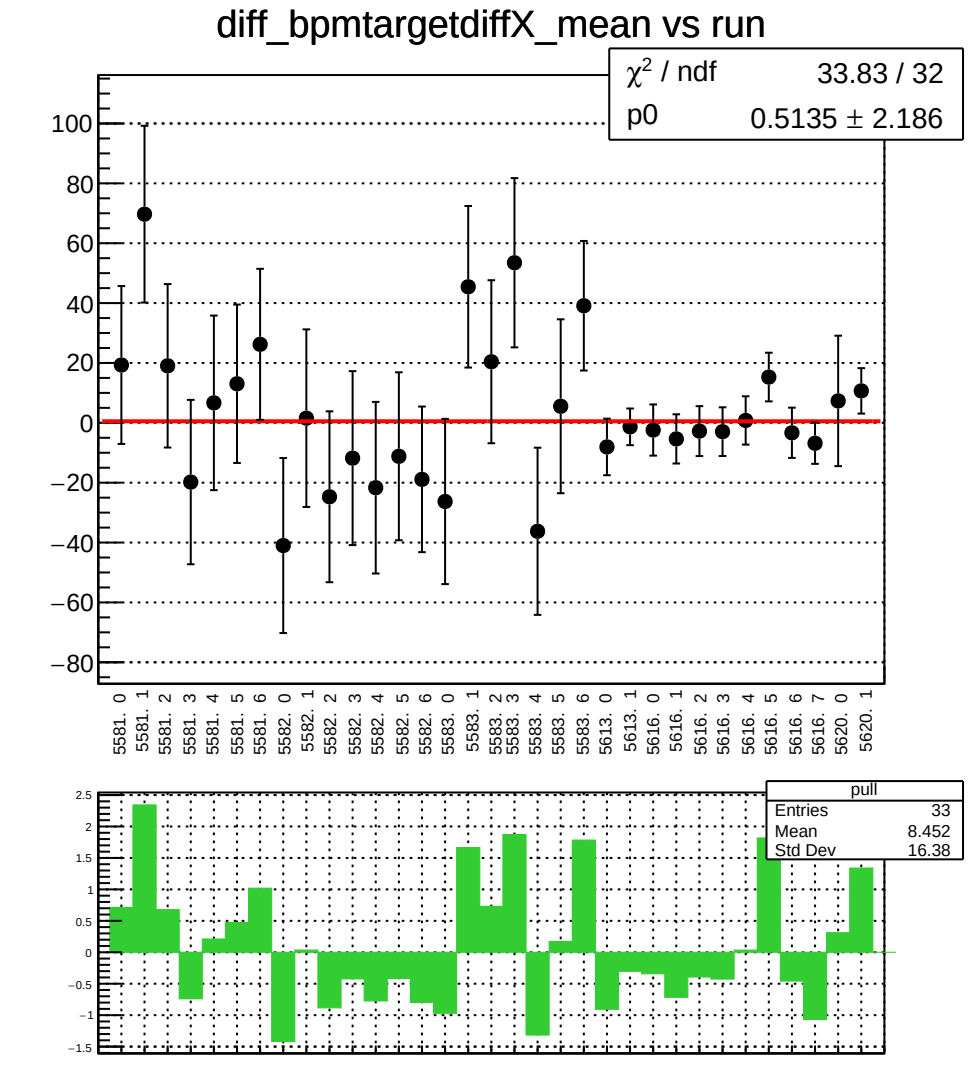

diff_bpm4aesumY_rms vs run
χ² / ndf 3.133e+04 / 32
p0 1.055e+04 ± 13.39
18000
17000
16000
15000
14000
13000
12000
11000
10000
9000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

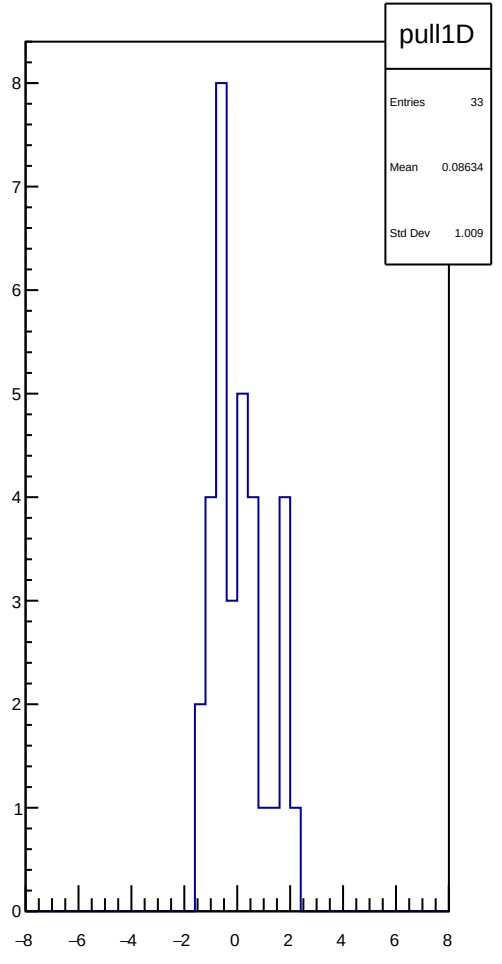

diff_bpm4aediffY_mean vs run
χ² / ndf 31.49 / 32
p0 1.415 ± 2.08
pull
Entries 33
Mean 49.2
Std Dev 0
pull1D
Entries 33
Mean 0.06853
Std Dev 0.9745

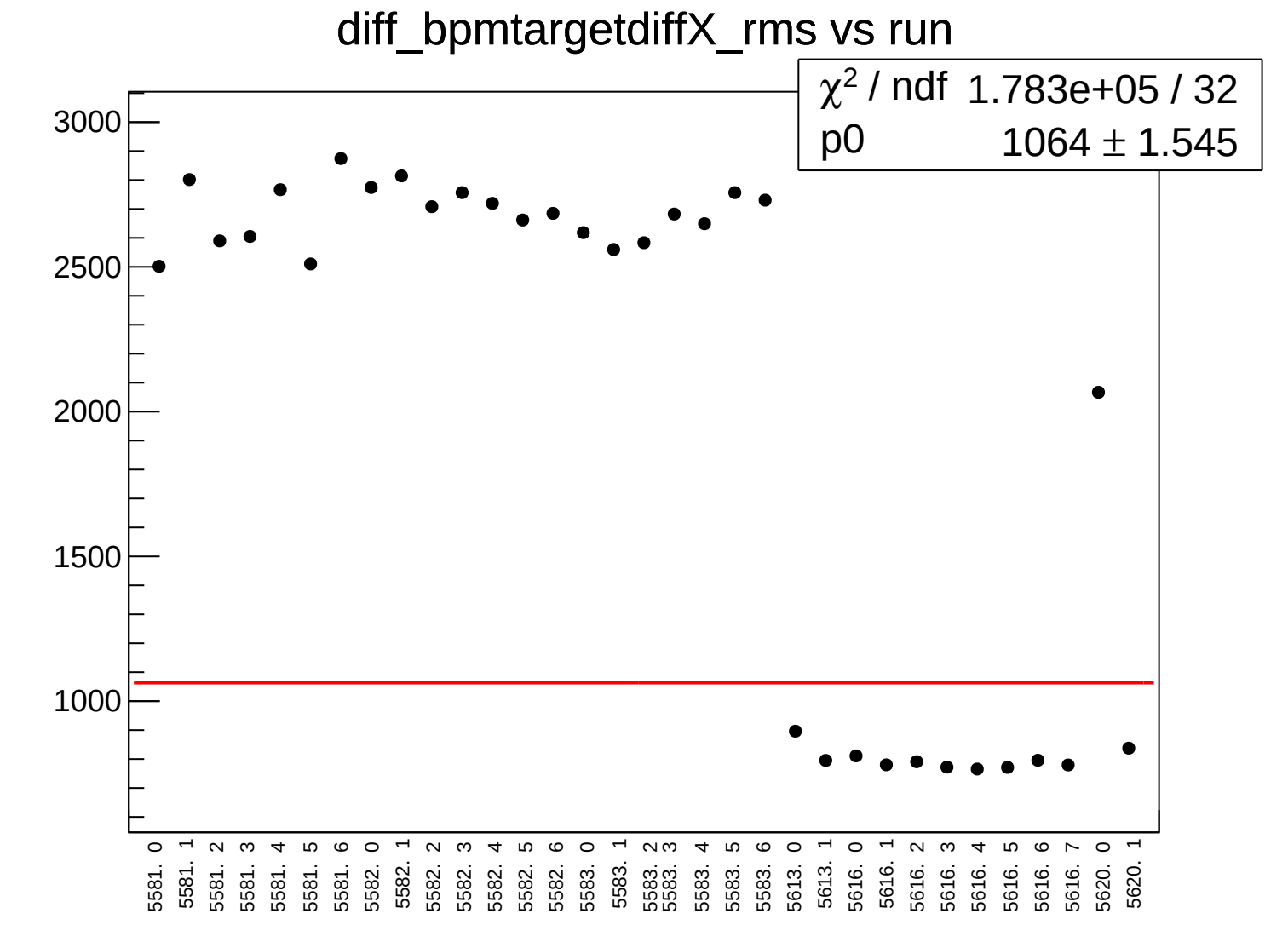

diff_bpm4aediffY_rms vs run
χ² / ndf 1.15e+04 / 32
p0 1177 ± 1.471
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

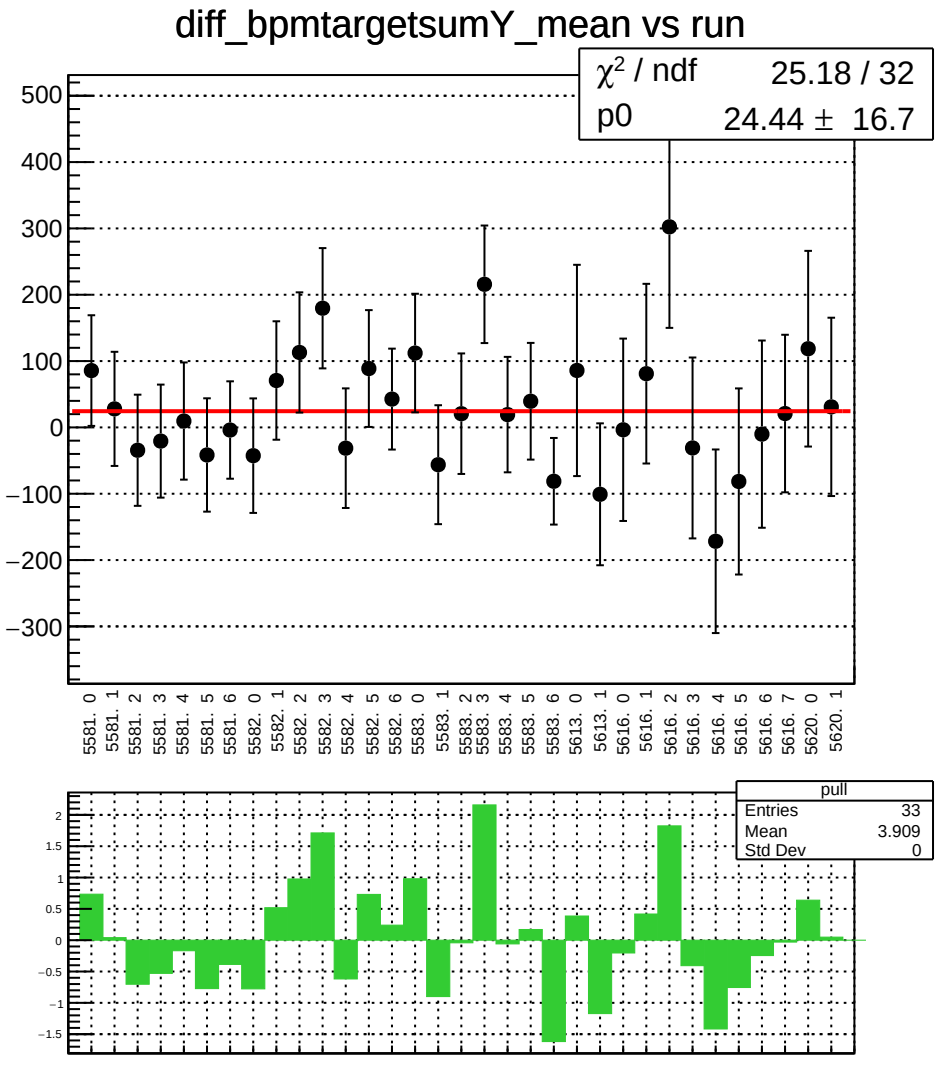

diff_bpmtargetsumX_mean vs run
χ² / ndf 36.53 / 32
p0 −45.65 ± 34.49
600
400
200
0
−200
−400
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 211.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.003627
Std Dev 1.052
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

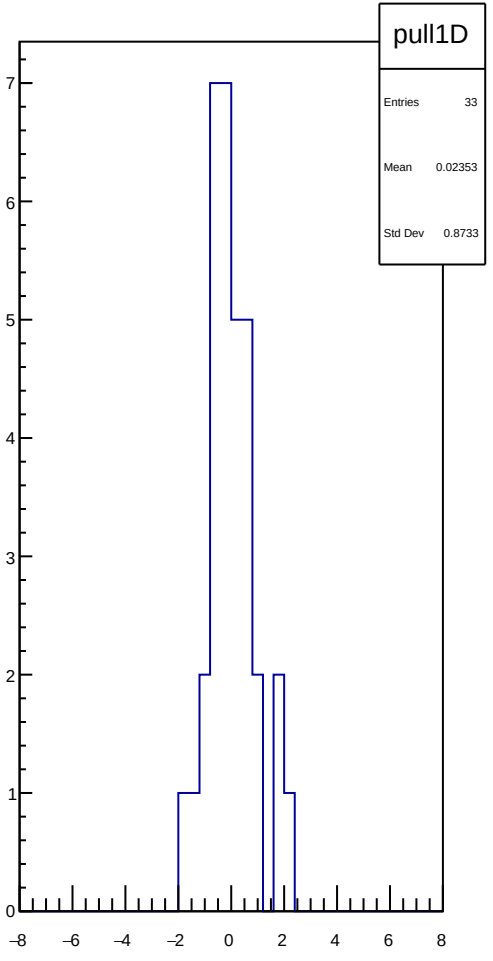

diff_bpmtargetsumX_rms vs run
χ² / ndf 2.303e+04 / 32
p0 1.934e+04 ± 24.39
28000
26000
24000
22000
20000
18000
16000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

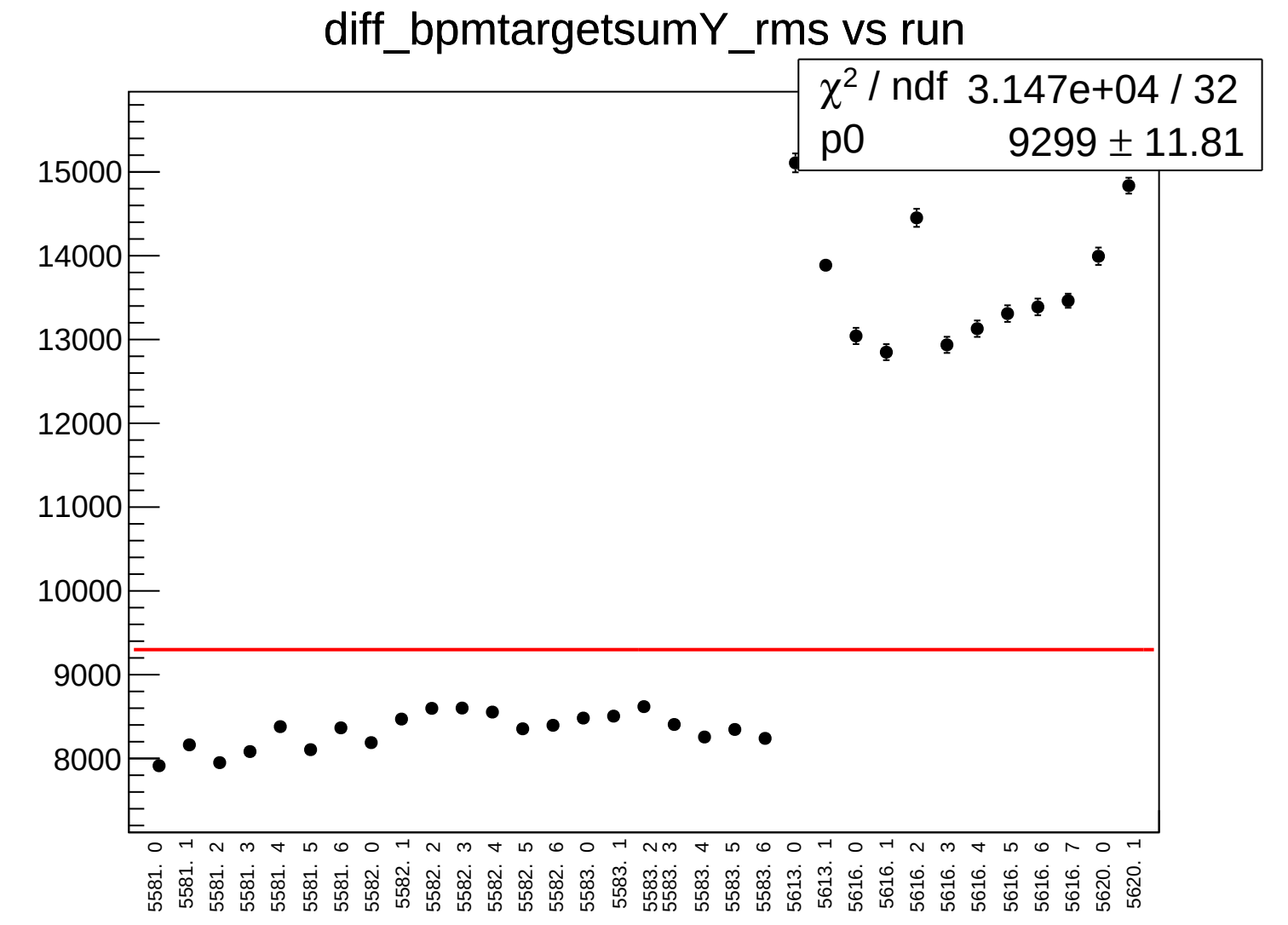

diff_bpmtargetdiffX_mean vs run
χ² / ndf 33.83 / 32
p0 0.5135 ± 2.186
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 8.452
Std Dev 16.38
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

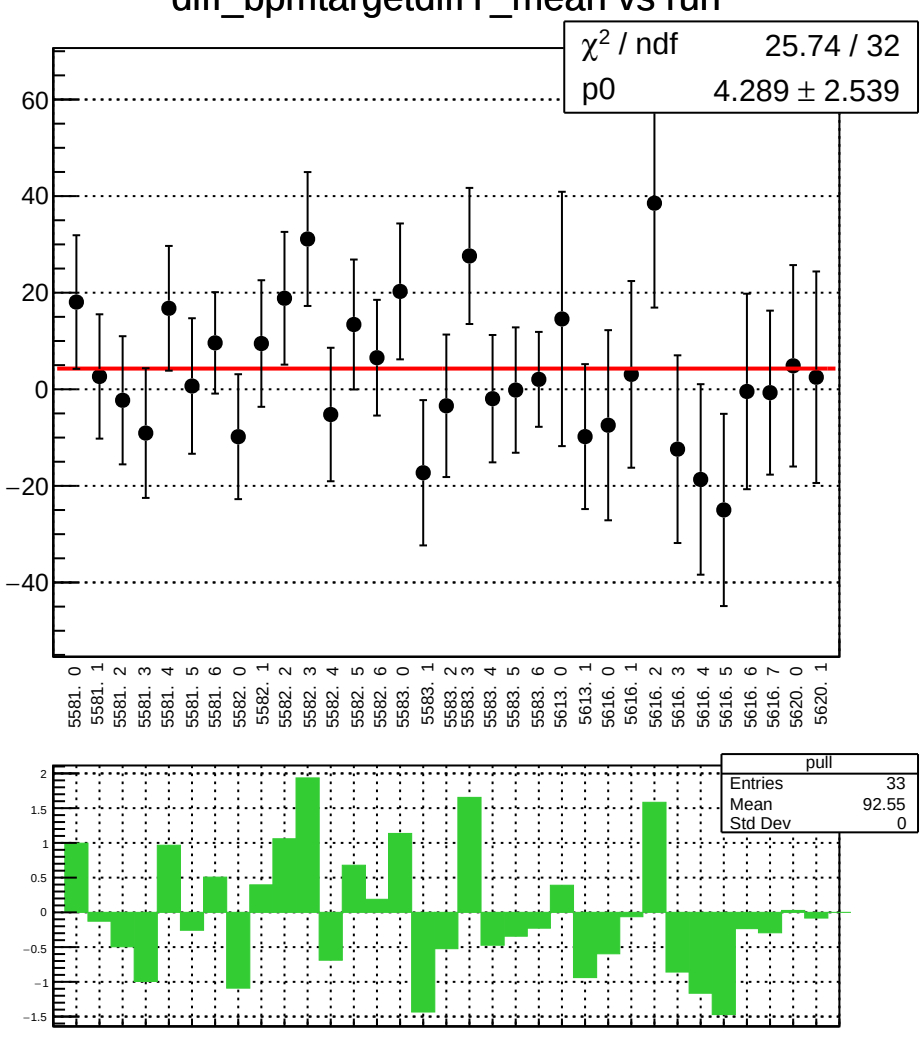

pull1D
Entries 33
Mean 0.08634
Std Dev 1.009
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

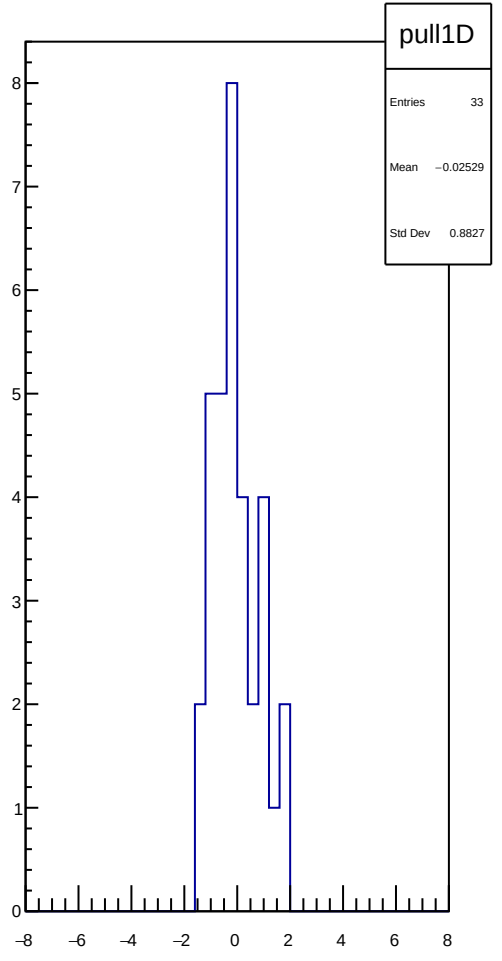

diff_bpmtargetdiffX_rms vs run
χ² / ndf 1.783e+05 / 32
p0 1064 ± 1.545
3000
2500
2000
1500
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

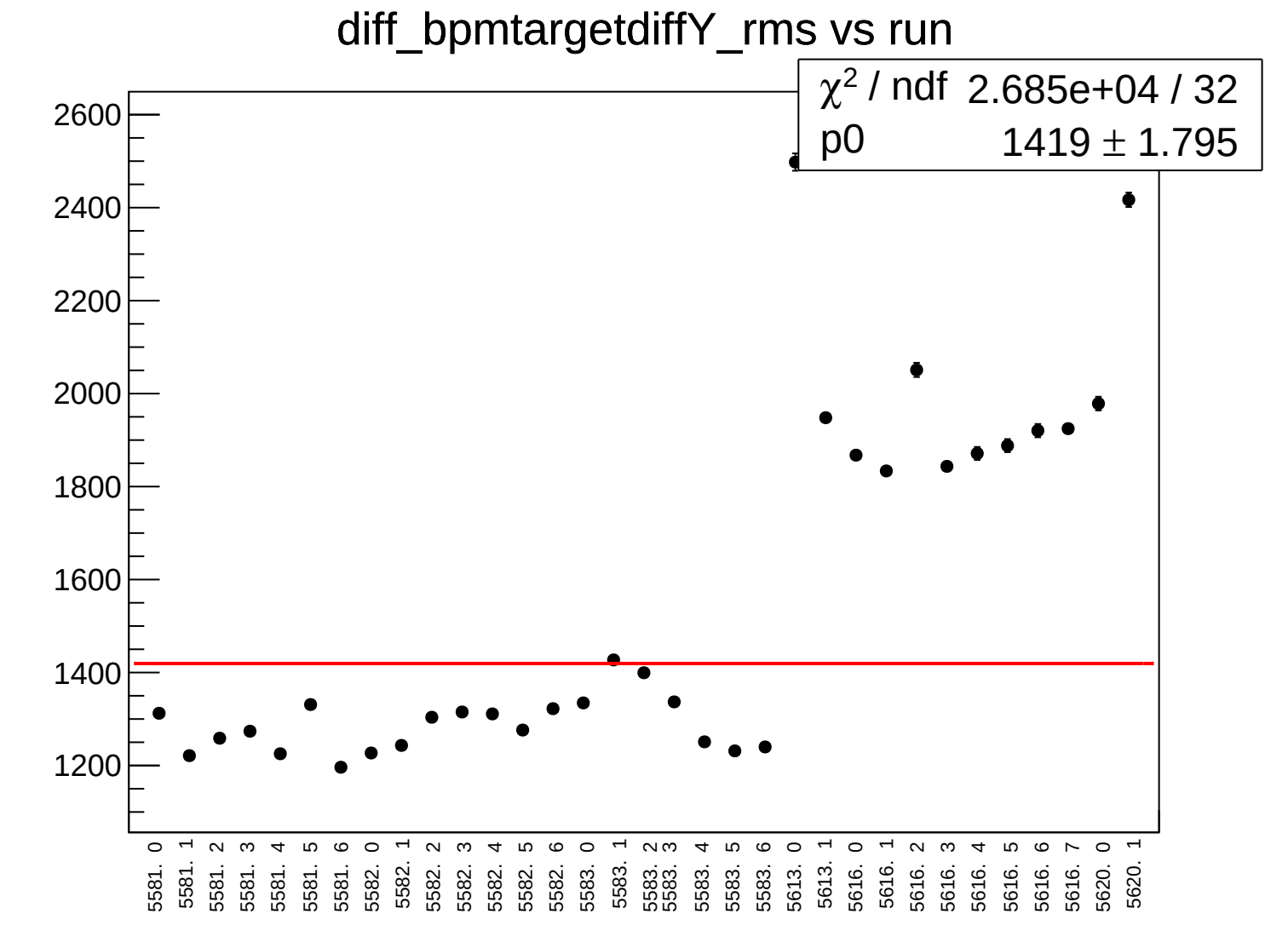

diff_bpmtargetsumY_mean vs run
χ² / ndf 25.18 / 32
p0 24.44 ± 16.7
pull
Entries 33
Mean 3.909
Std Dev 0

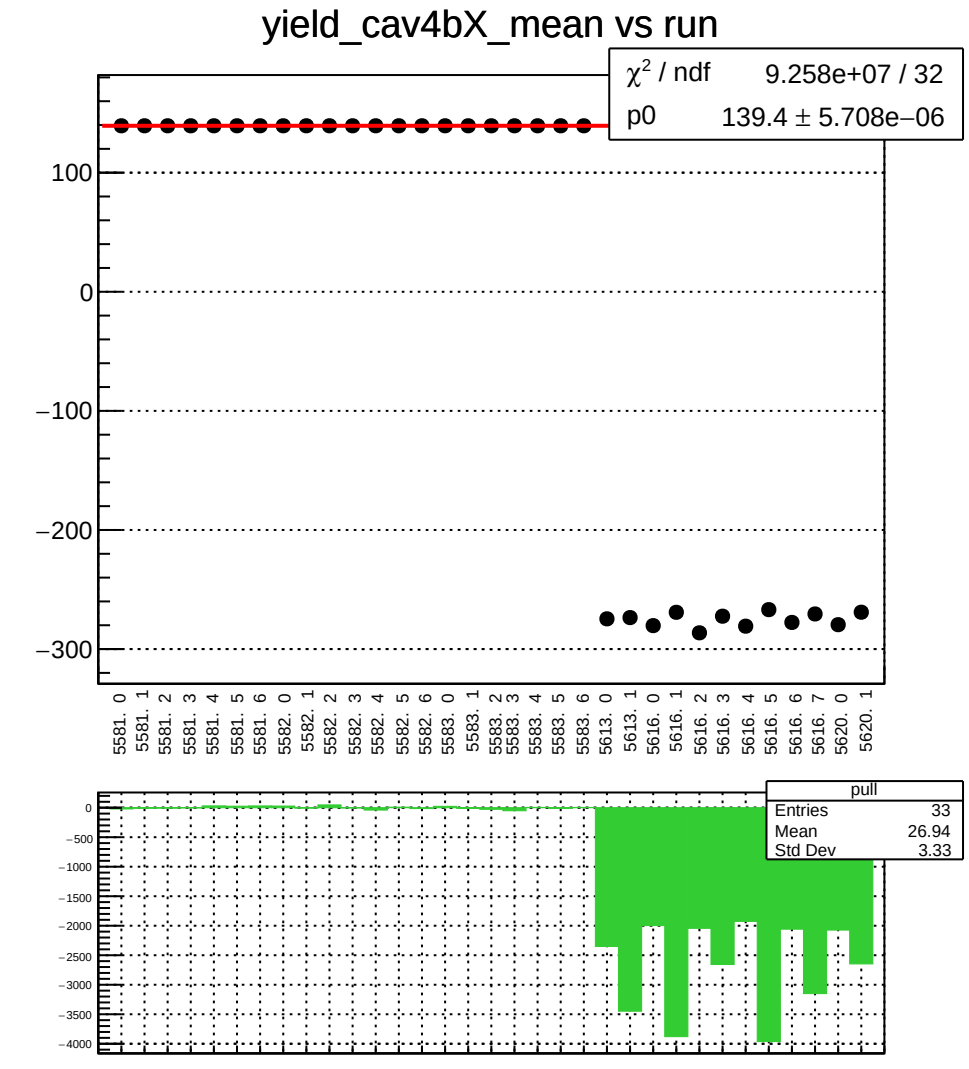

pull1D
Entries 33
Mean 0.02353
Std Dev 0.8733

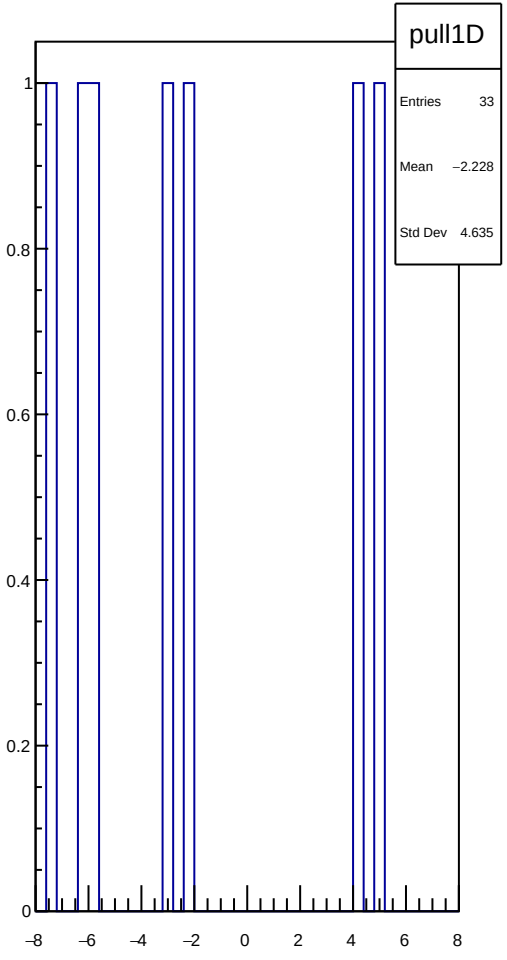

diff_bpmtargetsumY_rms vs run
χ² / ndf 3.147e+04 / 32
p0 9299 ± 11.81
15000
14000
13000
12000
11000
10000
9000
8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

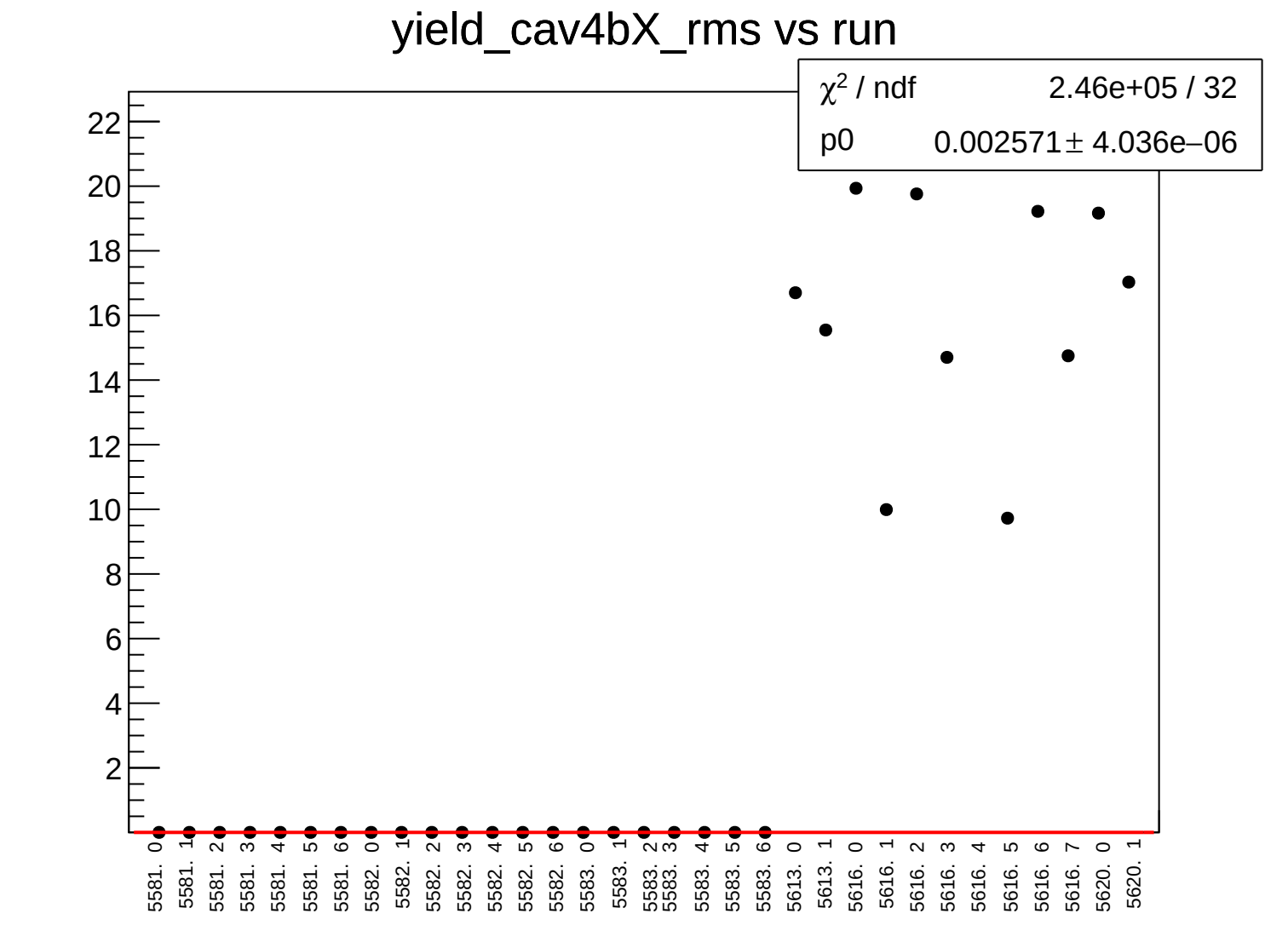

diff_bpmtargetdiffY_mean vs run
χ² / ndf 25.74 / 32
p0 4.289 ± 2.539
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 92.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

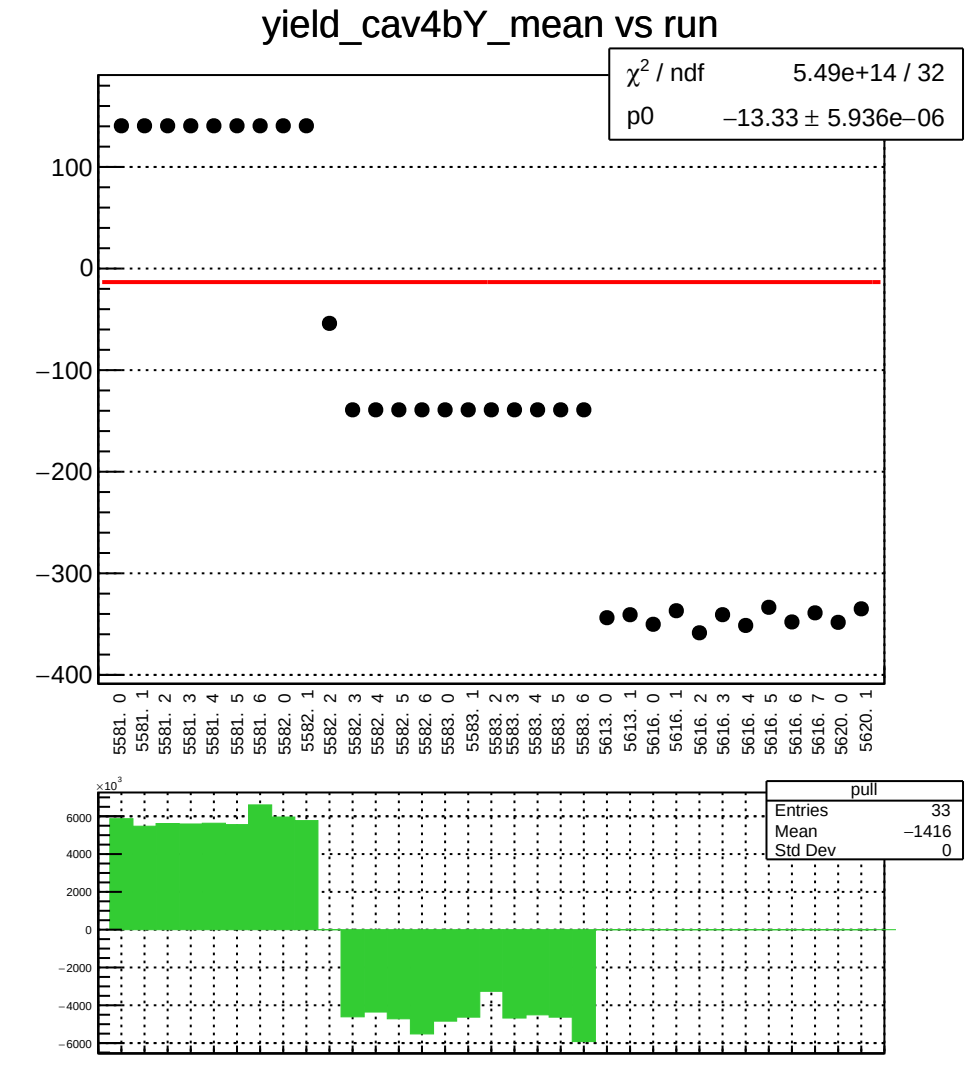

pull1D
Entries 33
Mean −0.02529
Std Dev 0.8827
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

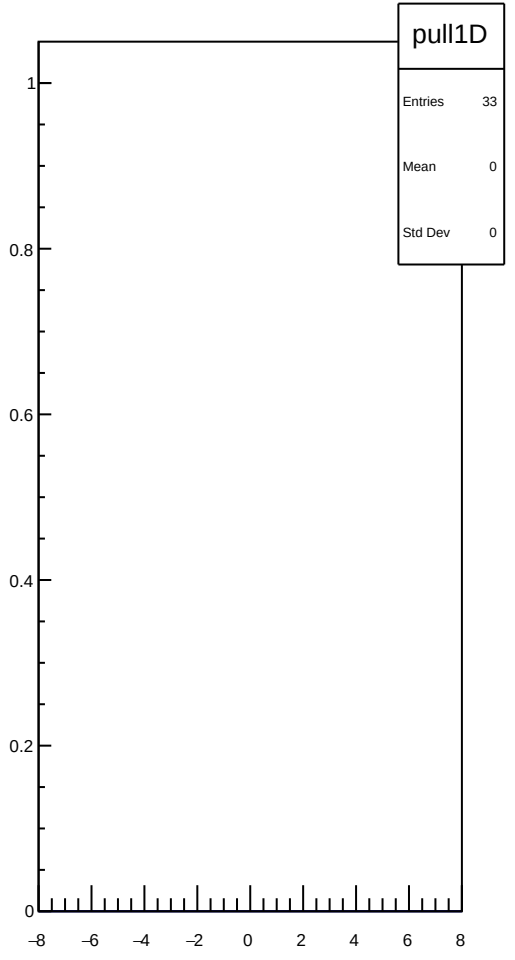

diff_bpmtargetdiffY_rms vs run
χ² / ndf 2.685e+04 / 32
p0 1419 ± 1.795
2600
2400
2200
2000
1800
1600
1400
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

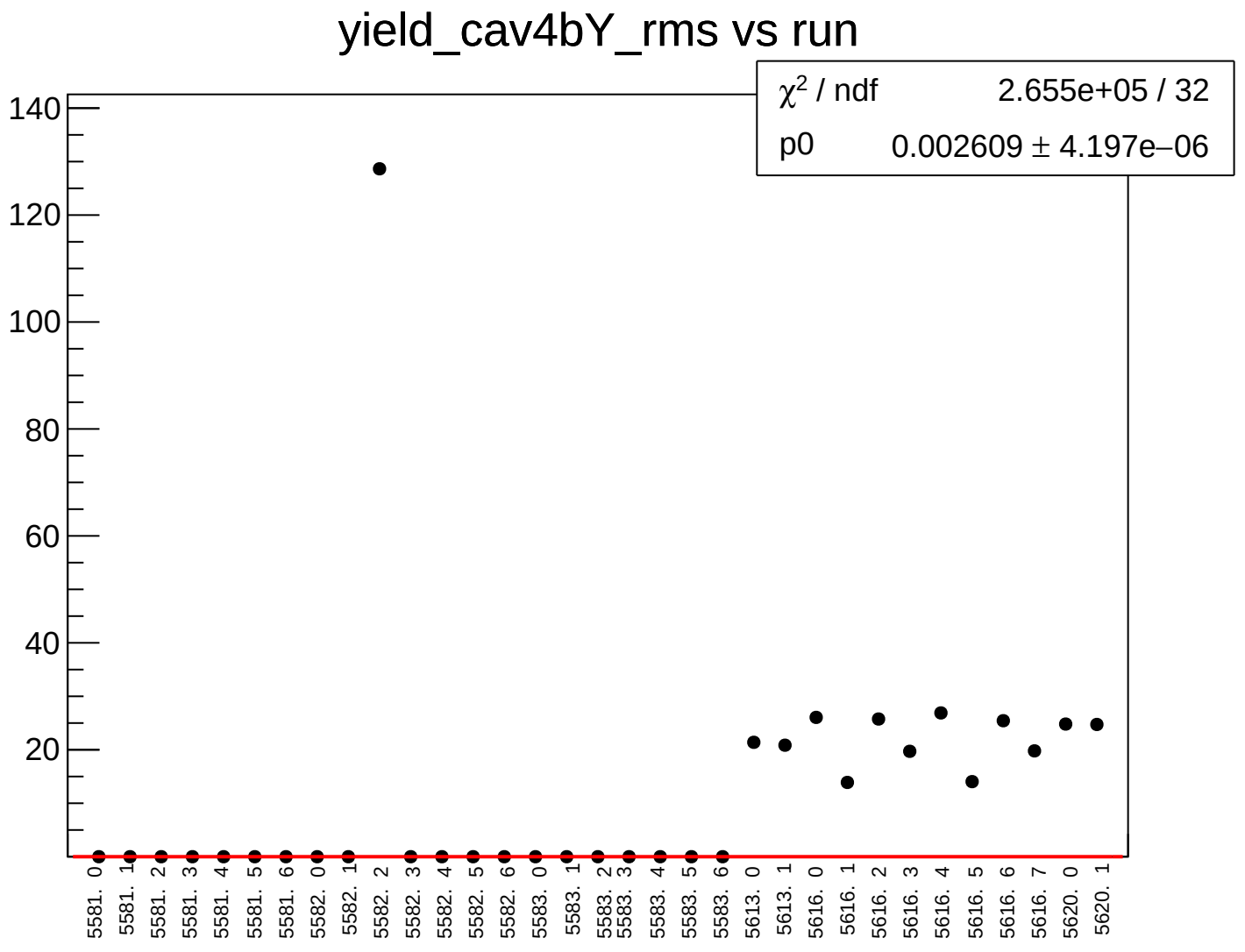

yield_cav4bX_mean vs run
χ² / ndf 9.258e+07 / 32
p0 139.4 ± 5.708e−06
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.94
Std Dev 3.33
0
−500
−1000
−1500
−2000
−2500
−3000
−3500
−4000

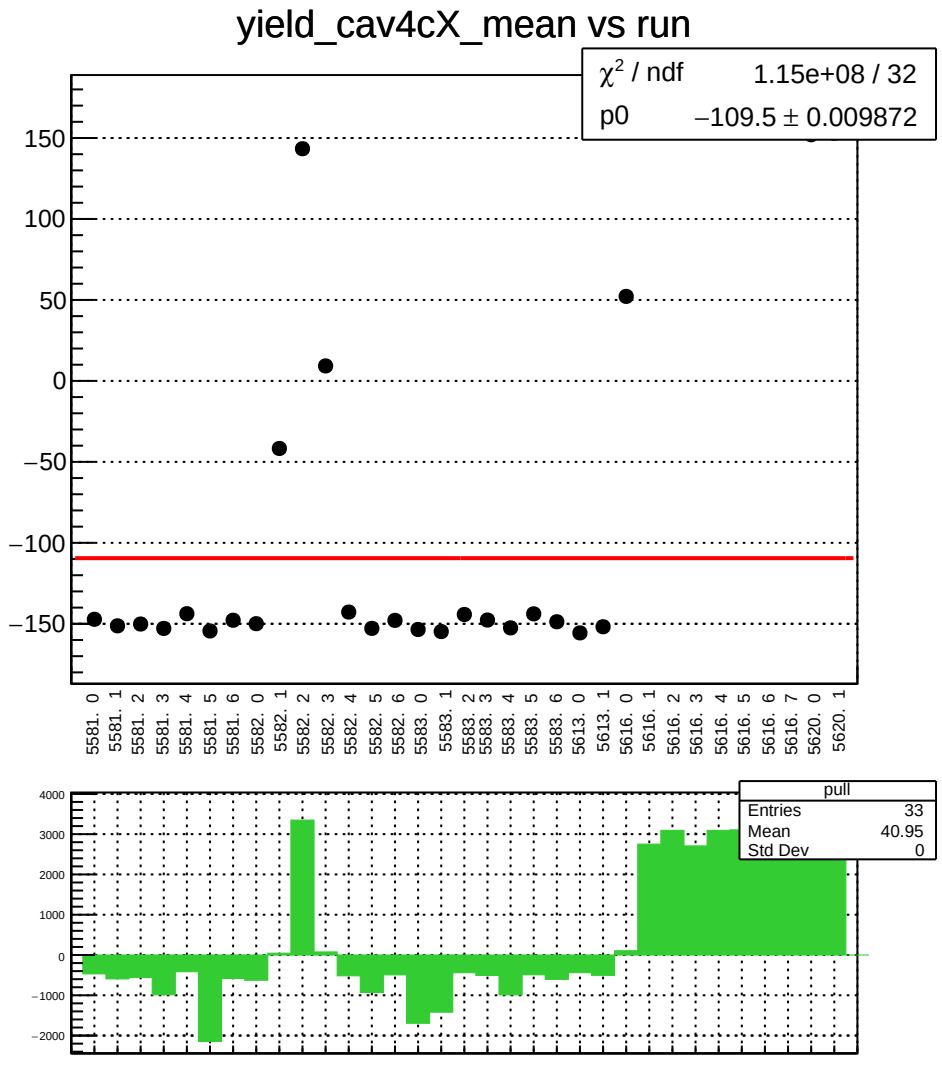

pull1D
Entries 33
Mean −2.228
Std Dev 4.635
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

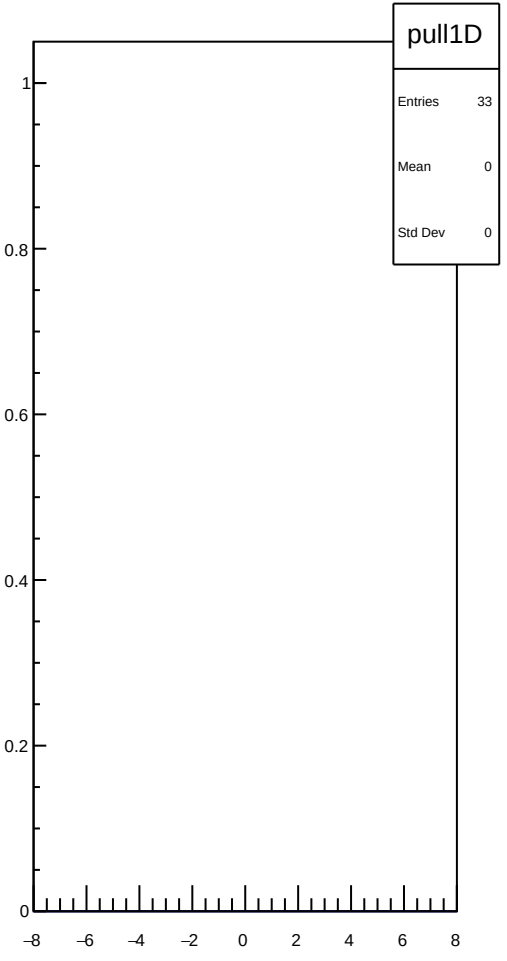

yield_cav4bX_rms vs run
χ² / ndf 2.46e+05 / 32
p0 0.002571 ± 4.036e−06
22
20
18
16
14
12
10
8
6
4
2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

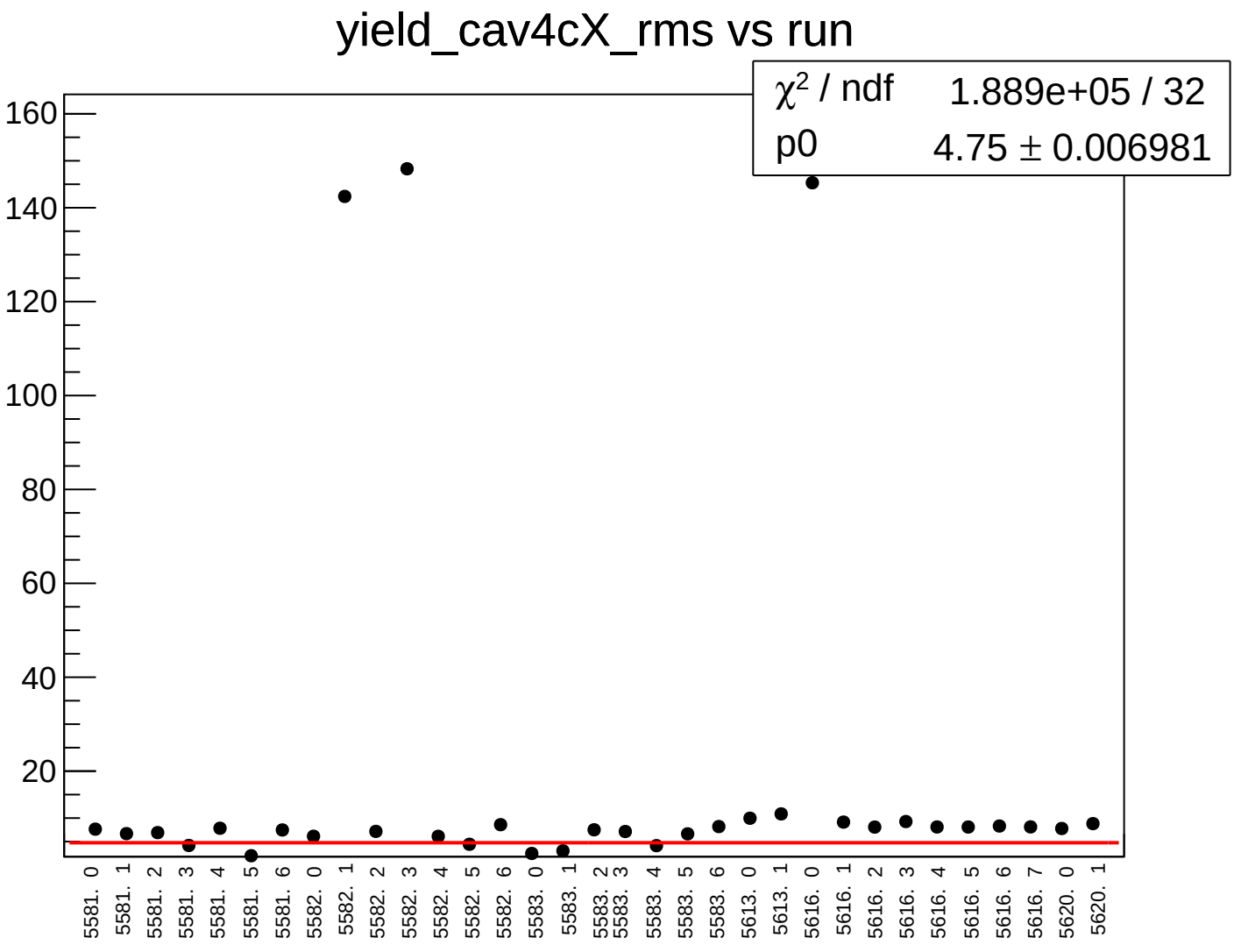

yield_cav4bY_mean vs run
χ² / ndf 5.49e+14 / 32
p0 −13.33 ± 5.936e−06
100
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
×10³
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 33
Mean −1416
Std Dev 0

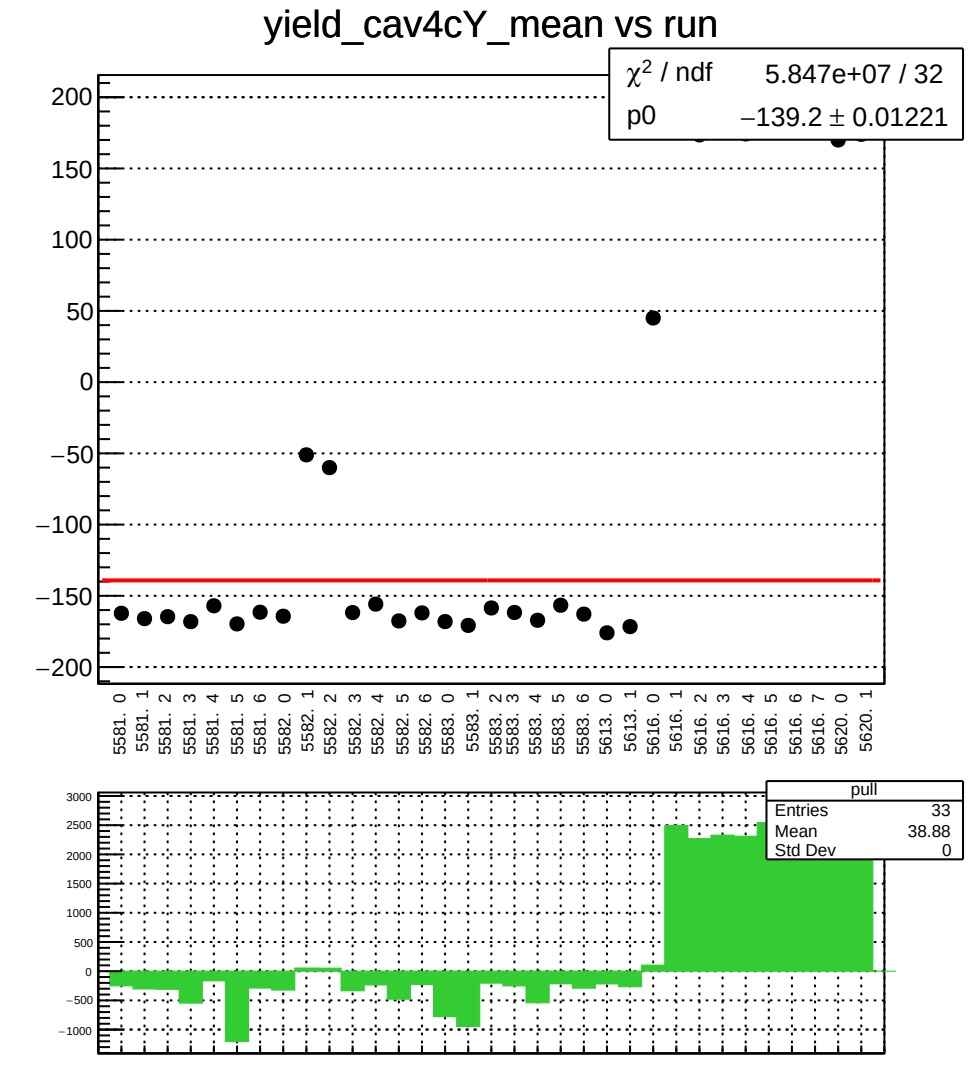

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

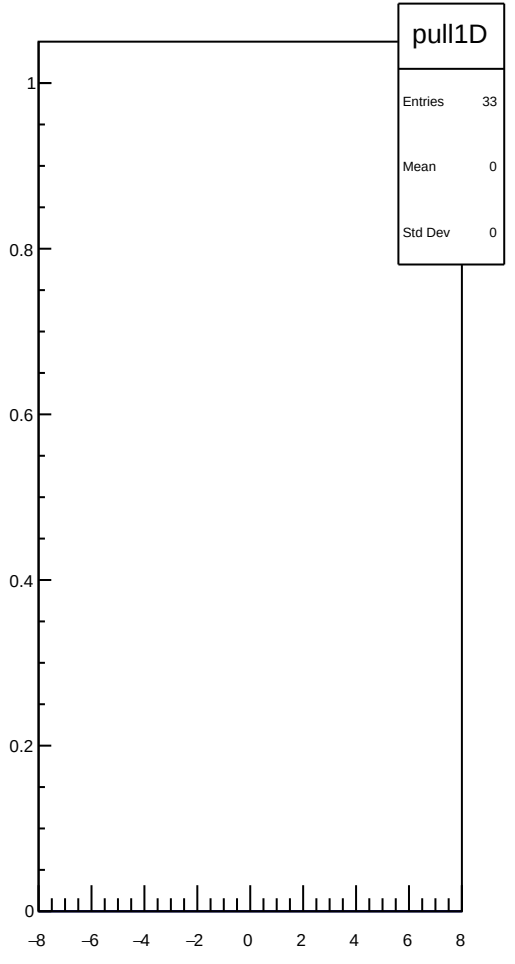

yield_cav4bY_rms vs run
χ² / ndf 2.655e+05 / 32
p0 0.002609 ± 4.197e−06
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

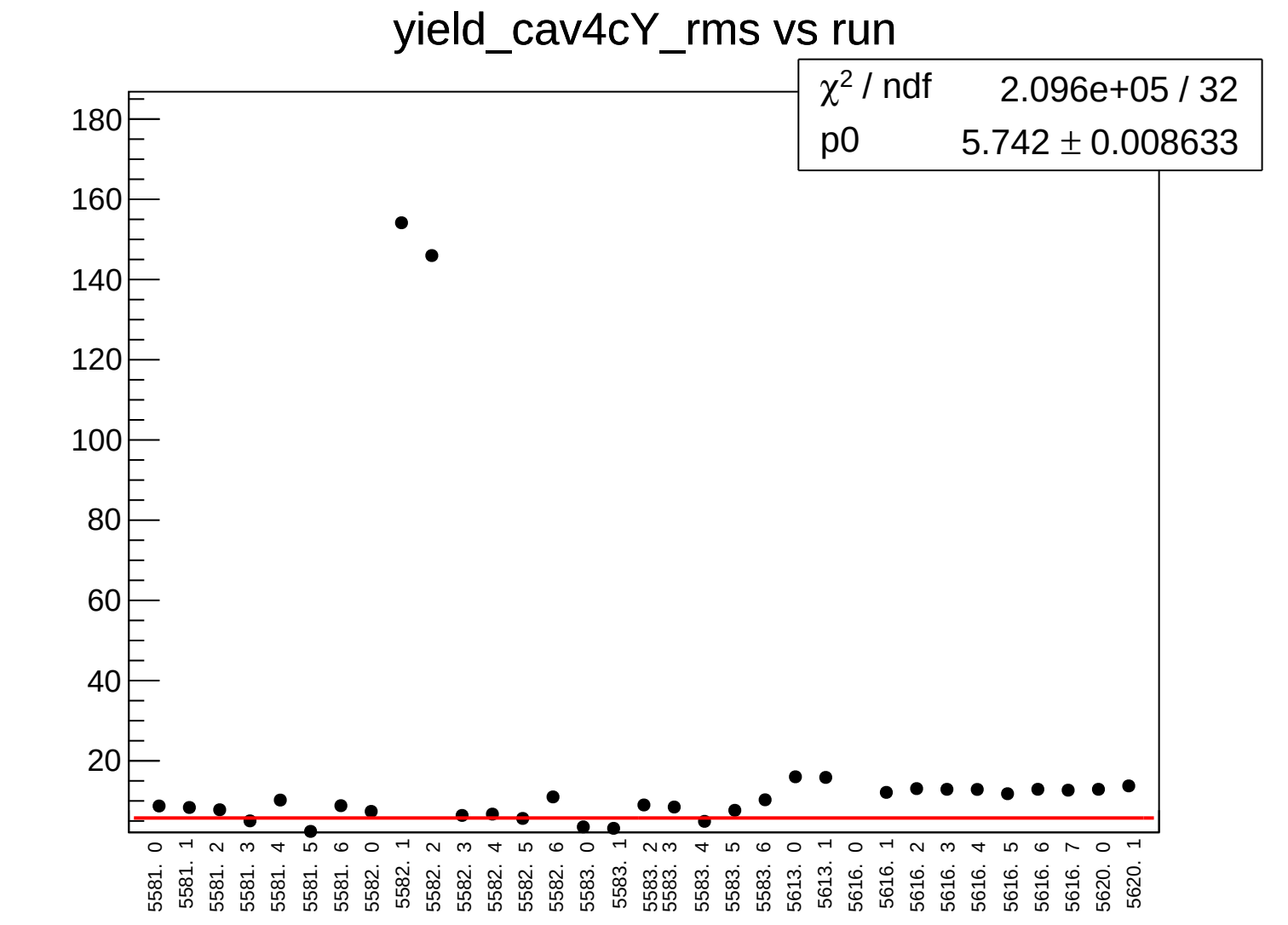

yield_cav4cX_mean vs run
χ² / ndf 1.15e+08 / 32
p0 −109.5 ± 0.009872
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.95
Std Dev 0
4000
3000
2000
1000
0
−1000
−2000

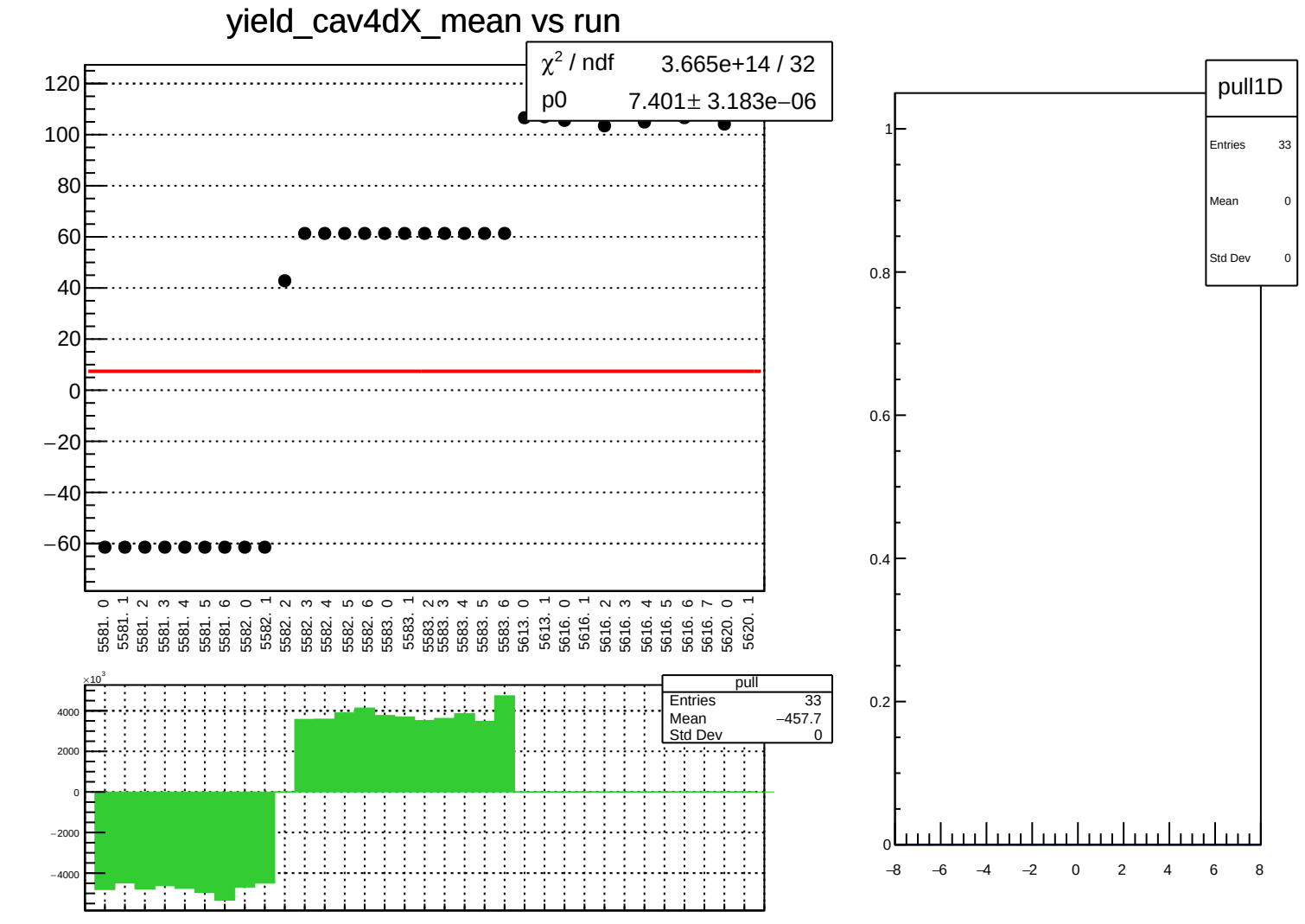

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

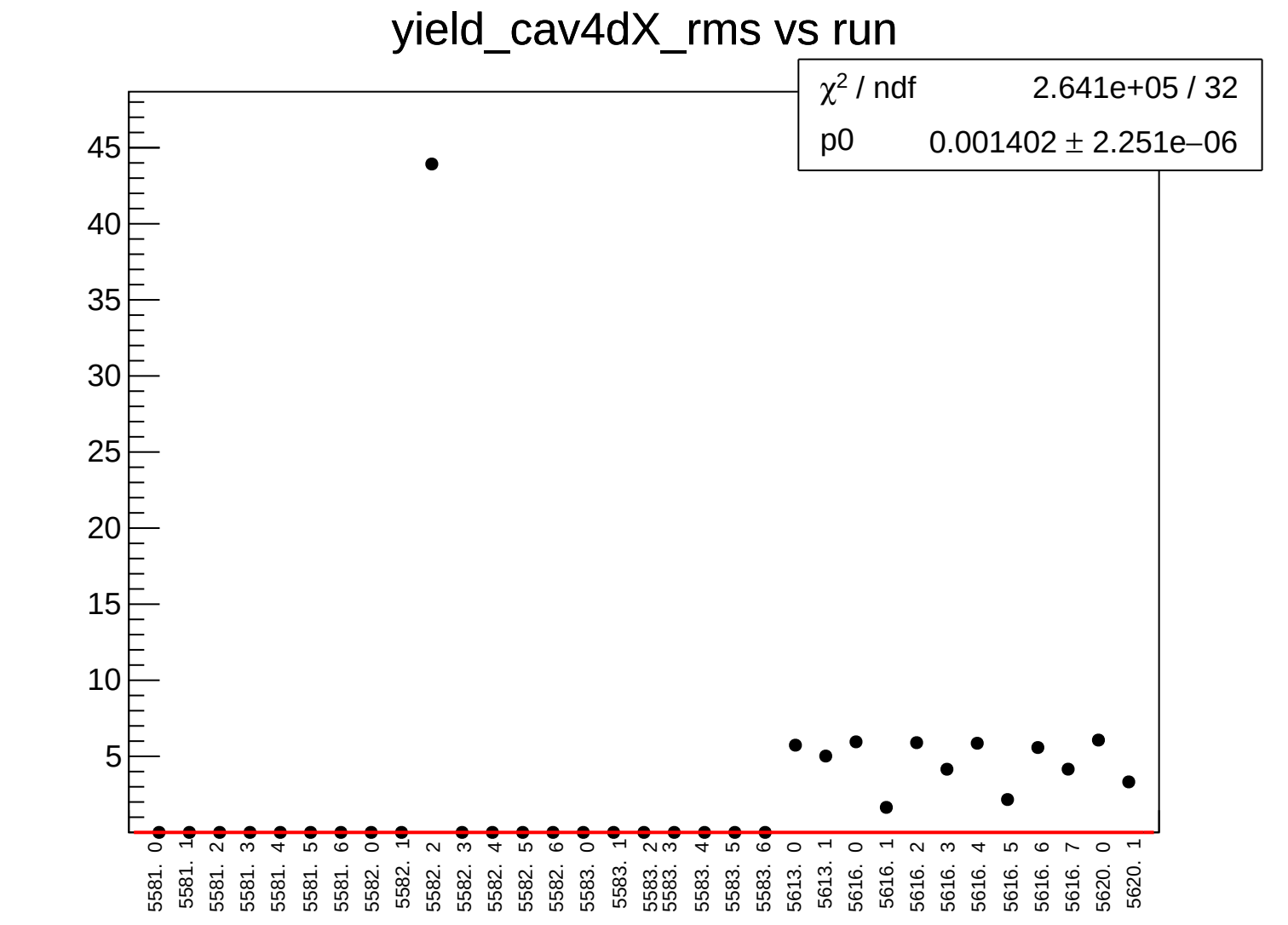

yield_cav4cX_rms vs run
χ² / ndf 1.889e+05 / 32
p0 4.75 ± 0.006981
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

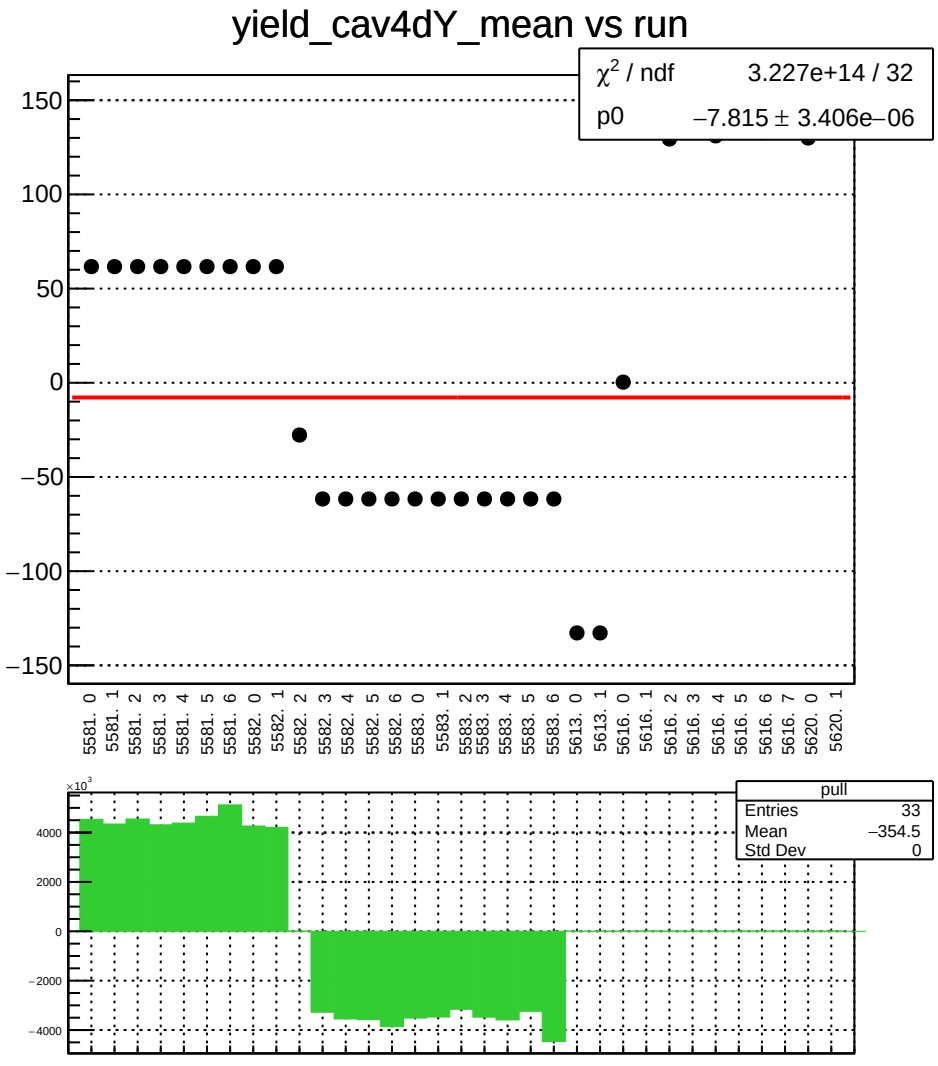

yield_cav4cY_mean vs run
χ² / ndf 5.847e+07 / 32
p0 −139.2 ± 0.01221
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.88
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500
−1000

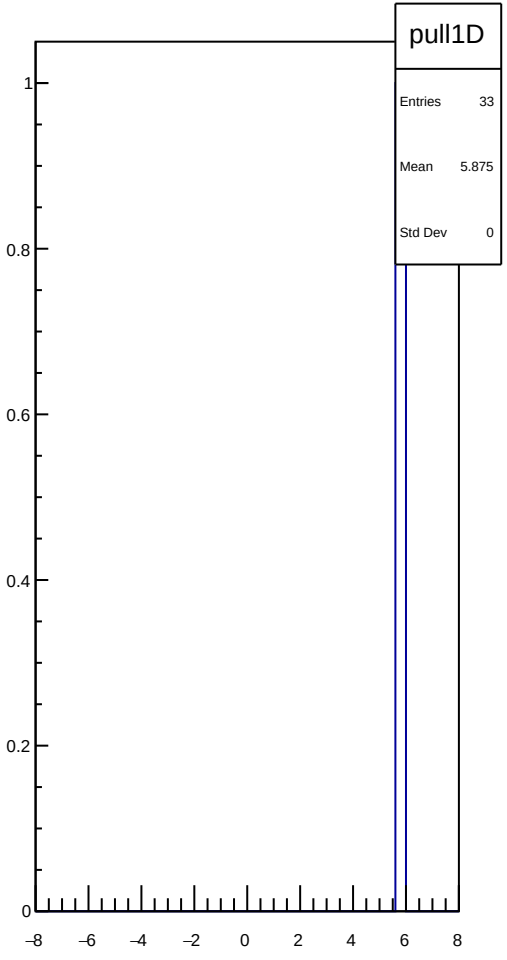

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

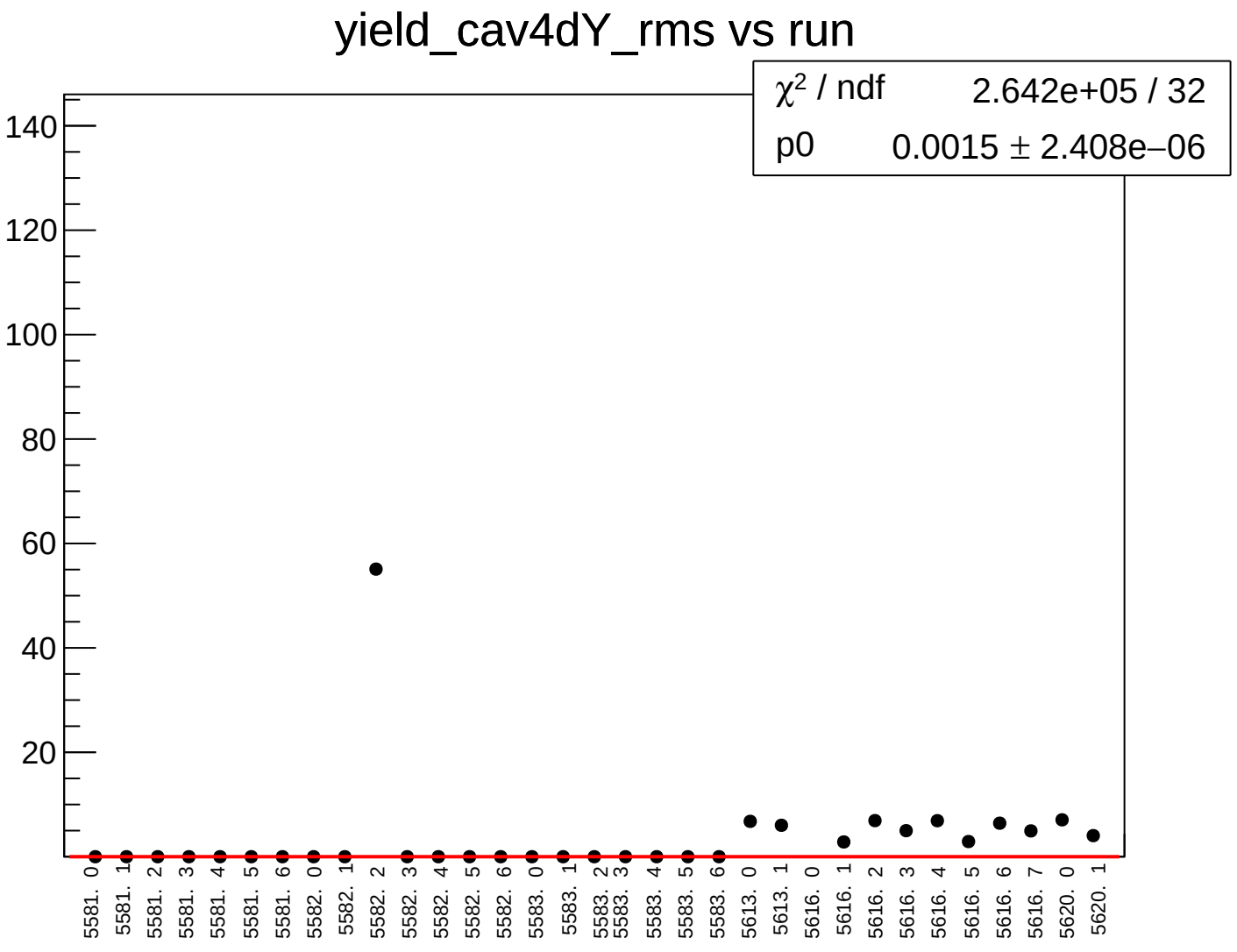

yield_cav4cY_rms vs run
χ^2 / ndf 2.096e+05 / 32
p0 5.742 ± 0.008633
180
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

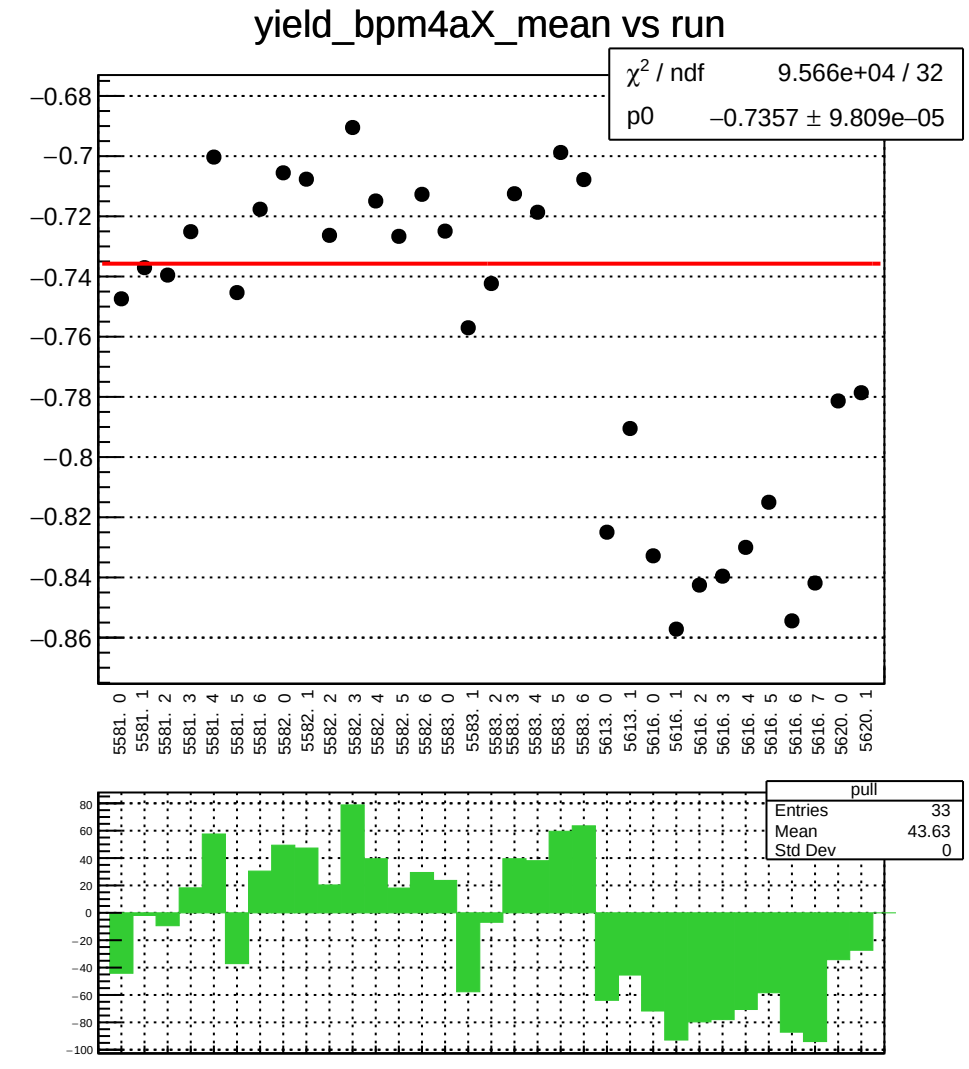

yield_cav4dX_mean vs run
χ² / ndf 3.665e+14 / 32
p0 7.401± 3.183e−06
120
100
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
×10³
4000
2000
0
−2000
−4000
pull
Entries 33
Mean −457.7
Std Dev 0
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

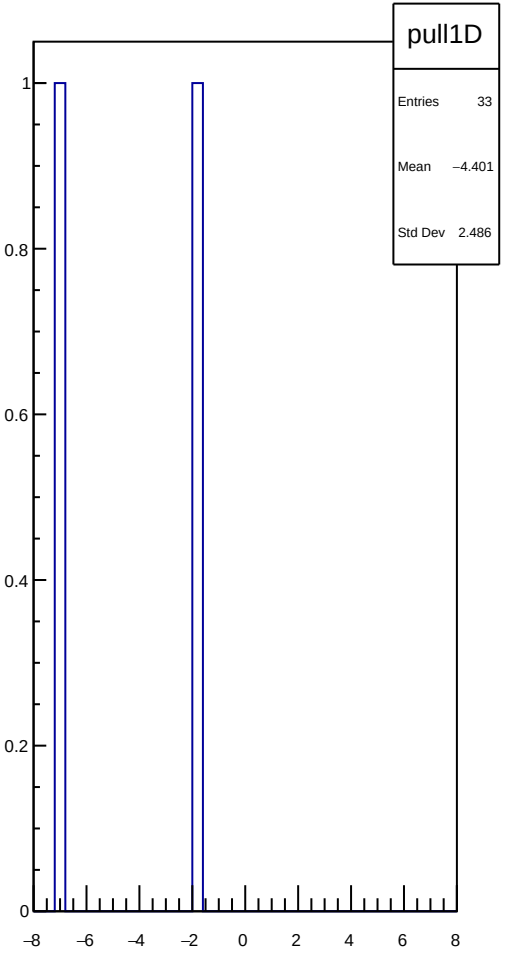

yield_cav4dX_rms vs run
χ^2 / ndf 2.641e+05 / 32
p0 0.001402 ± 2.251e−06
45
40
35
30
25
20
15
10
5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

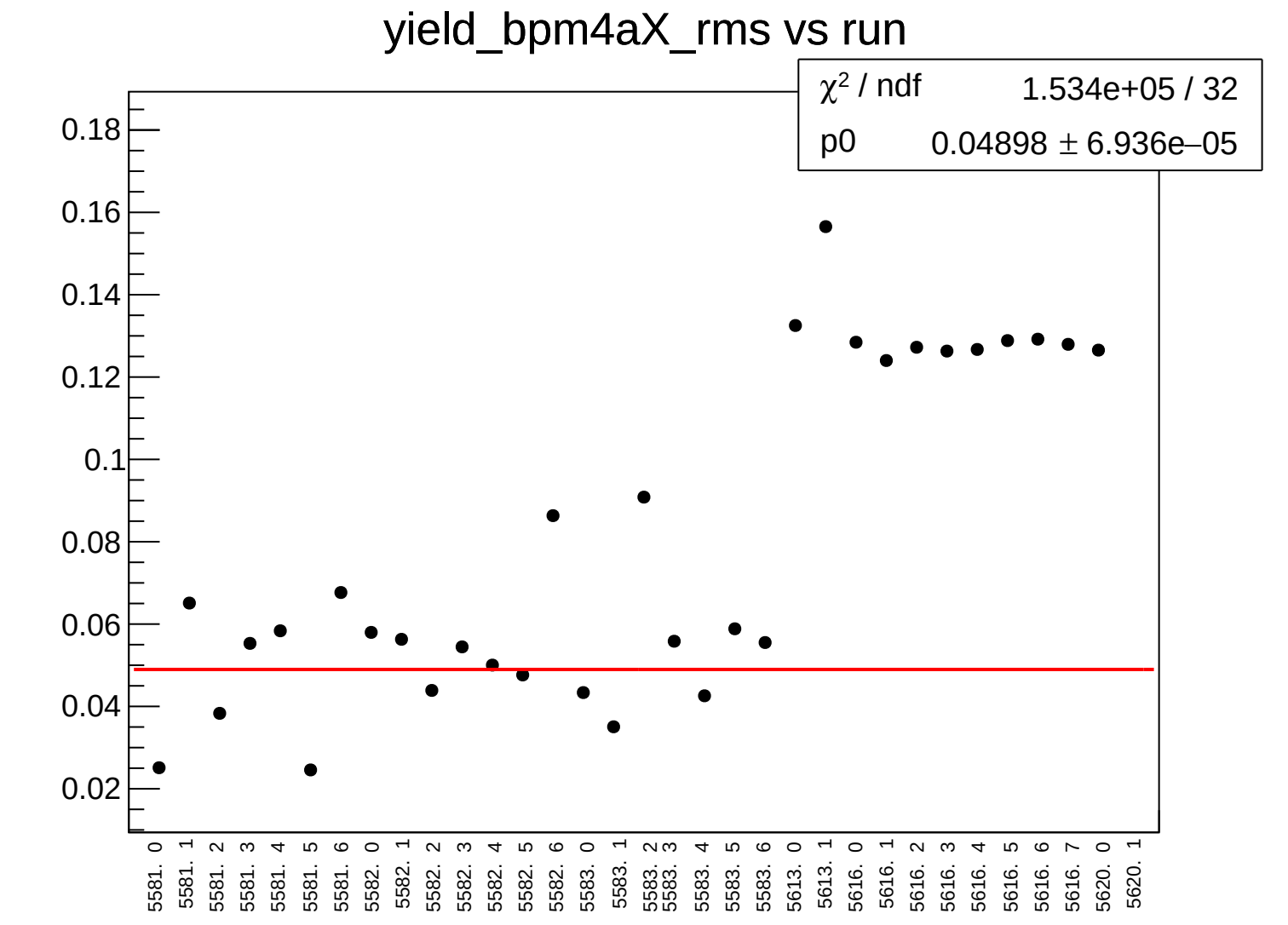

yield_cav4dY_mean vs run
χ² / ndf 3.227e+14 / 32
p0 −7.815 ± 3.406e−06
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
×10³
4000
2000
0
−2000
−4000
pull
Entries 33
Mean −354.5
Std Dev 0

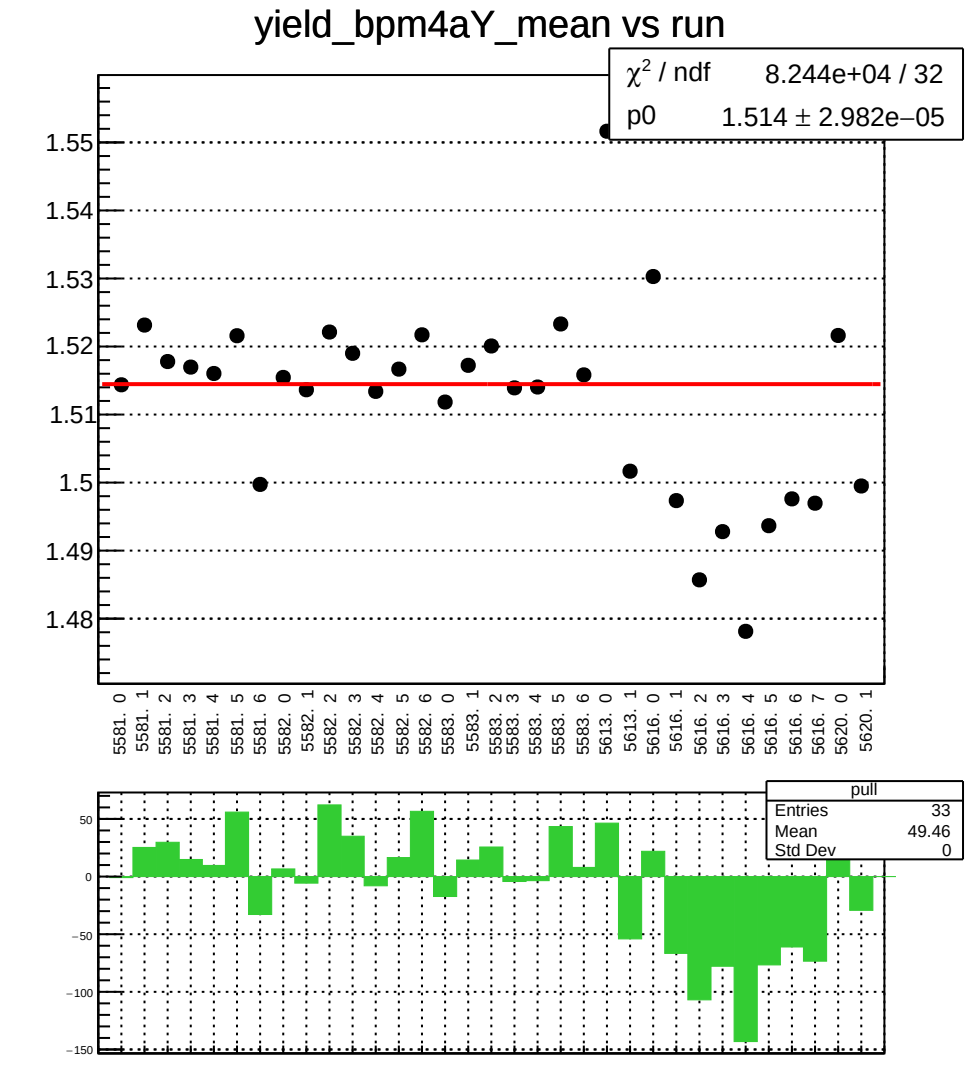

pull1D
Entries 33
Mean 5.875
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

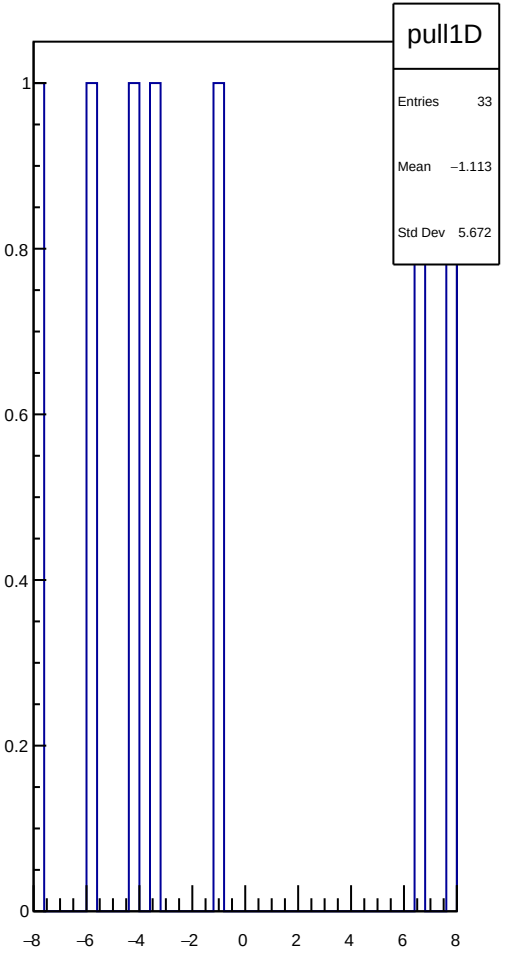

yield_cav4dY_rms vs run
χ² / ndf 2.642e+05 / 32
p0 0.0015 ± 2.408e−06
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

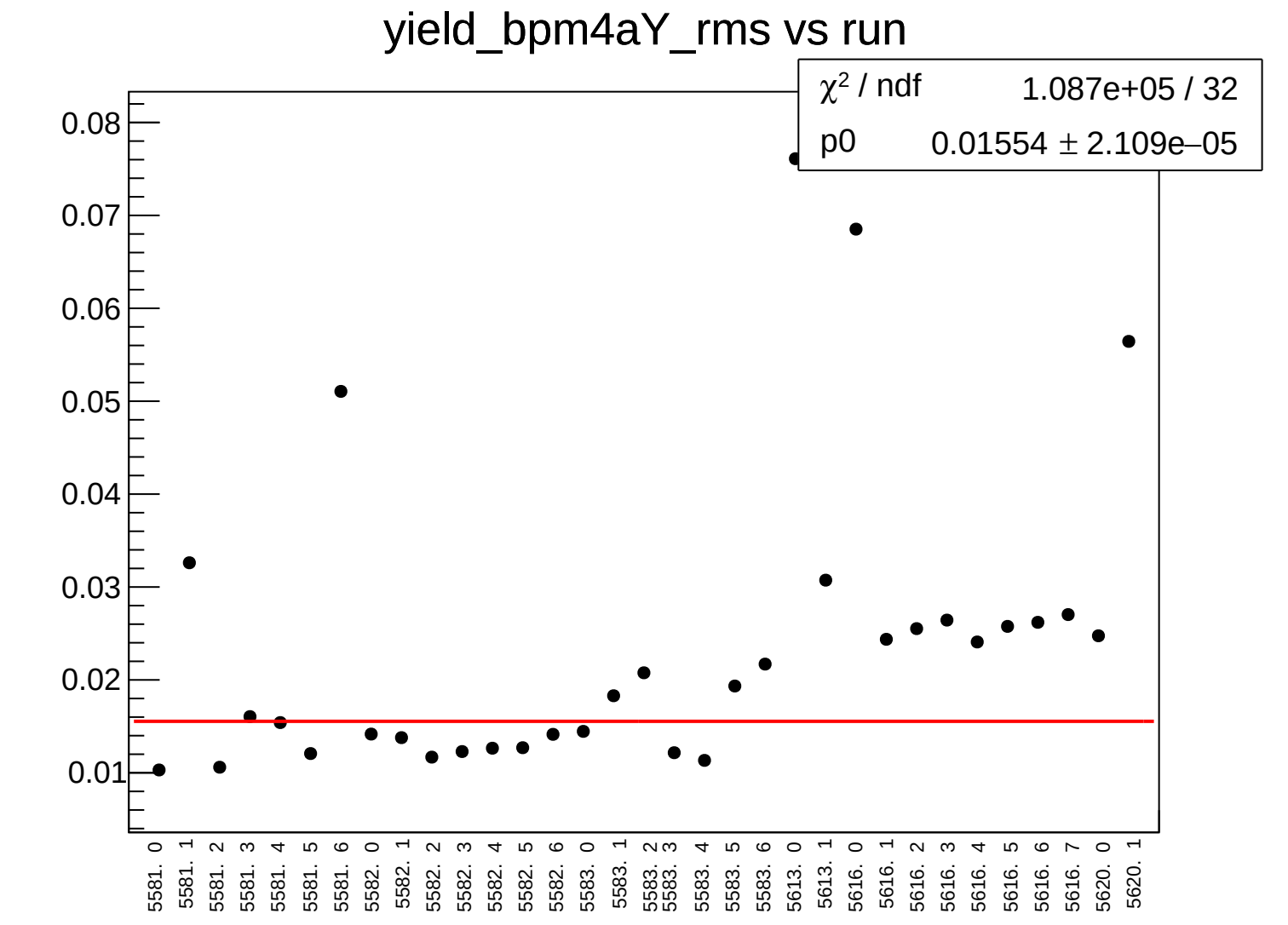

yield_bpm4aX_mean vs run
χ² / ndf 9.566e+04 / 32
p0 −0.7357 ± 9.809e−05
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 43.63
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

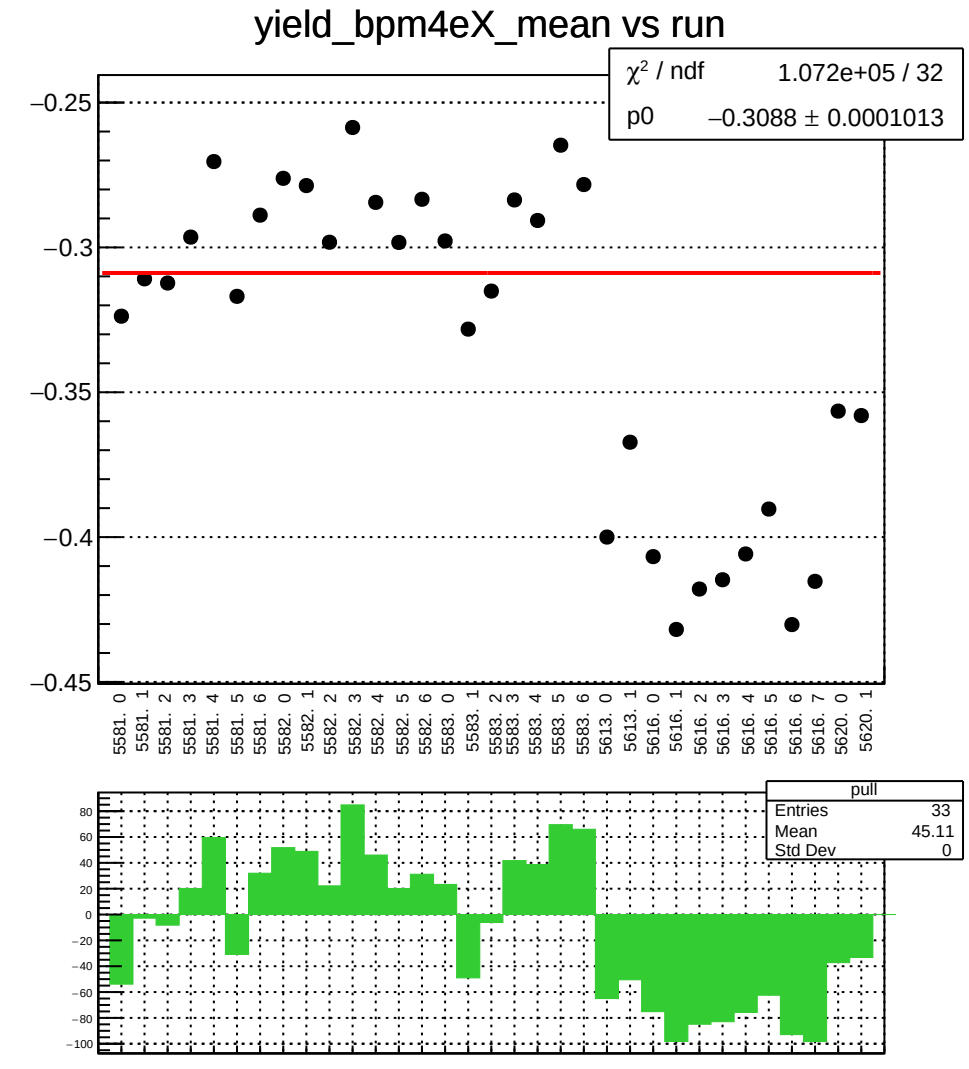

pull1D
Entries 33
Mean −4.401
Std Dev 2.486
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

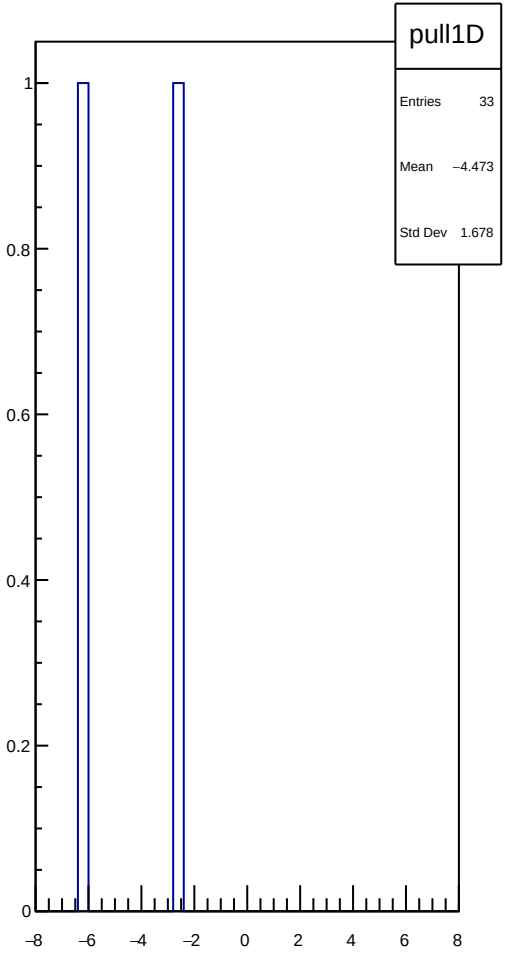

yield_bpm4aX_rms vs run
χ² / ndf 1.534e+05 / 32
p0 0.04898 ± 6.936e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

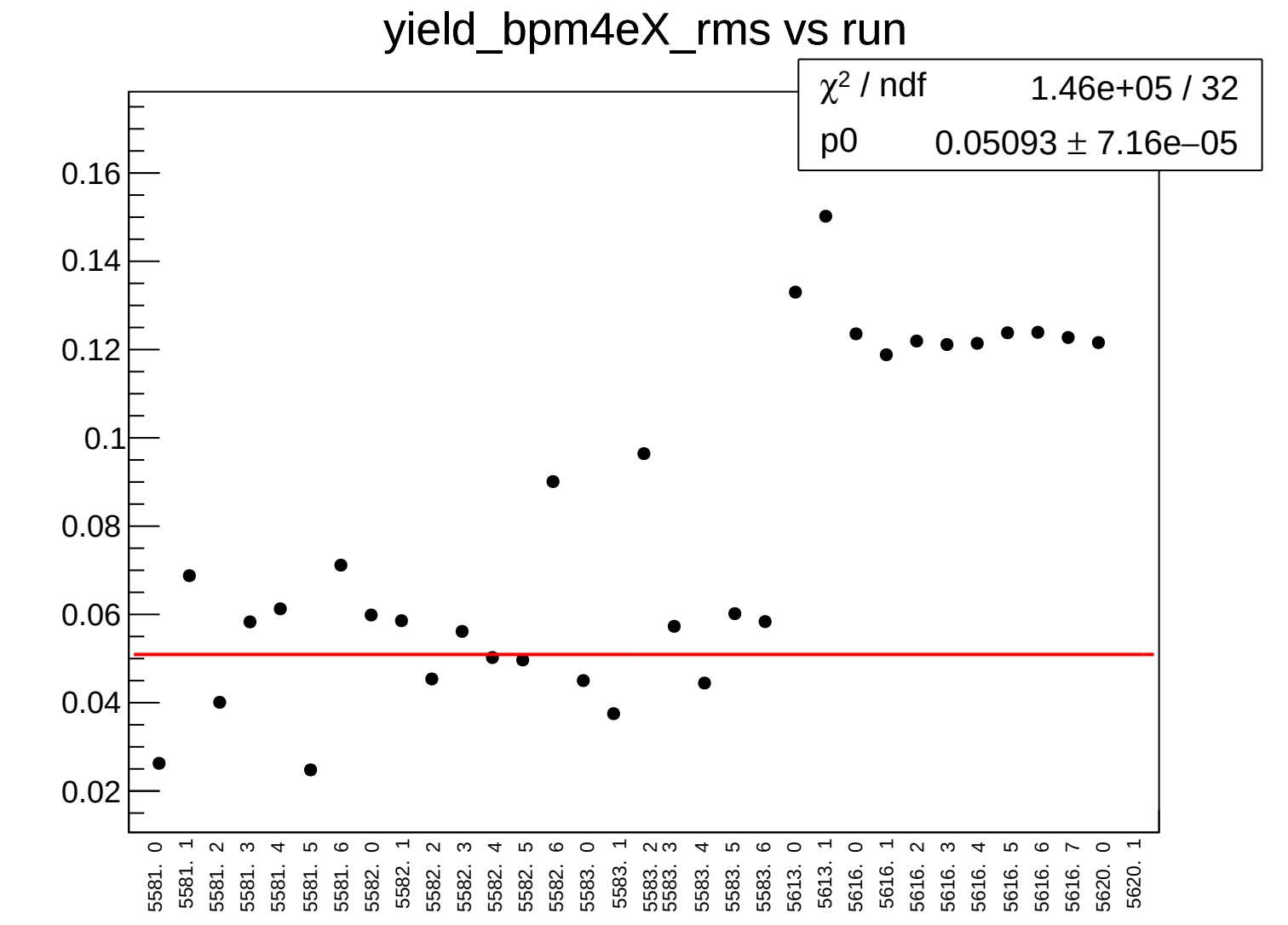

yield_bpm4aY_mean vs run
χ² / ndf 8.244e+04 / 32
p0 1.514 ± 2.982e−05
1.55
1.54
1.53
1.52
1.51
1.5
1.49
1.48
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.46
Std Dev 0
50
0
−50
−100
−150

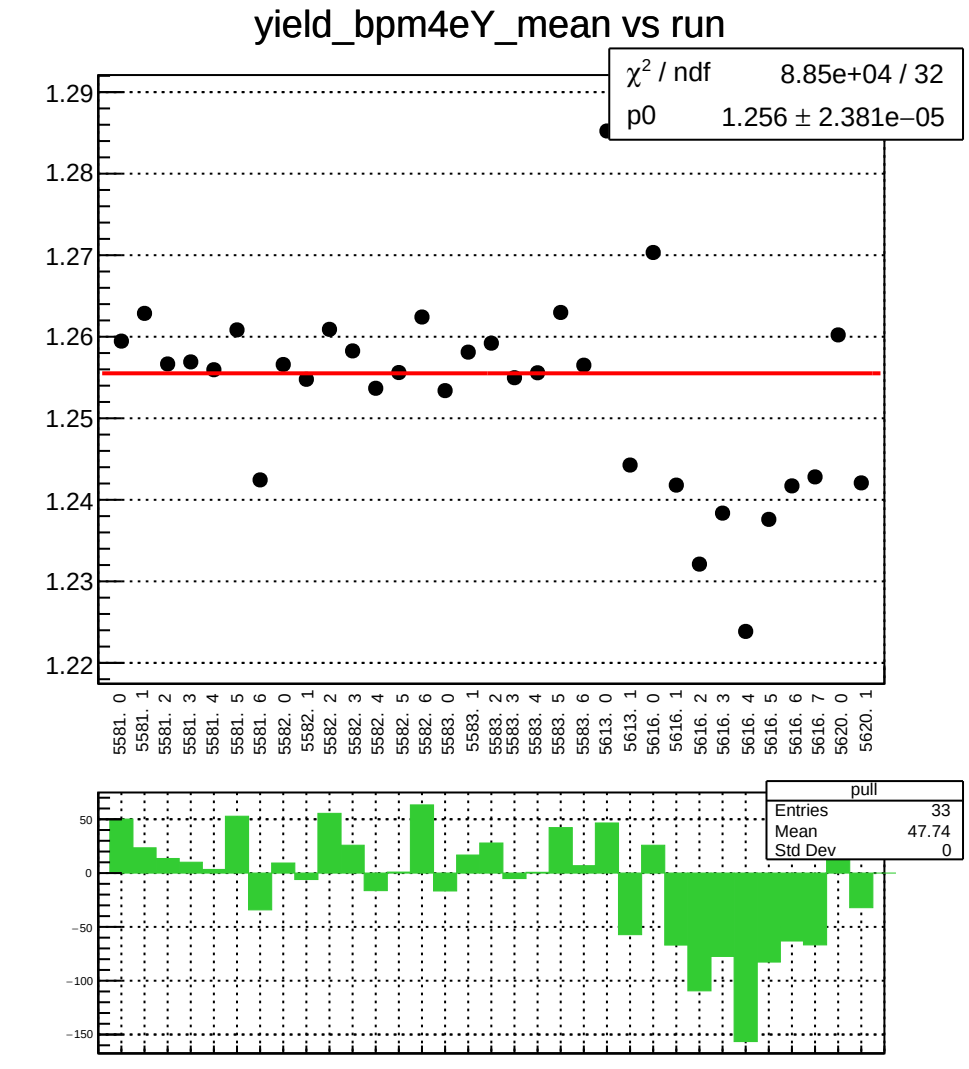

pull1D
Entries 33
Mean −1.113
Std Dev 5.672
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

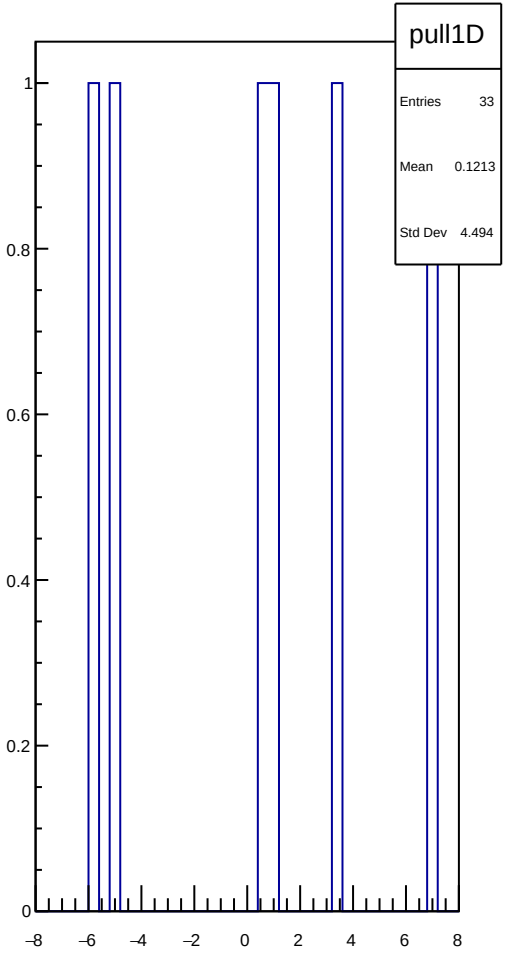

yield_bpm4aY_rms vs run
χ² / ndf 1.087e+05 / 32
p0 0.01554 ± 2.109e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

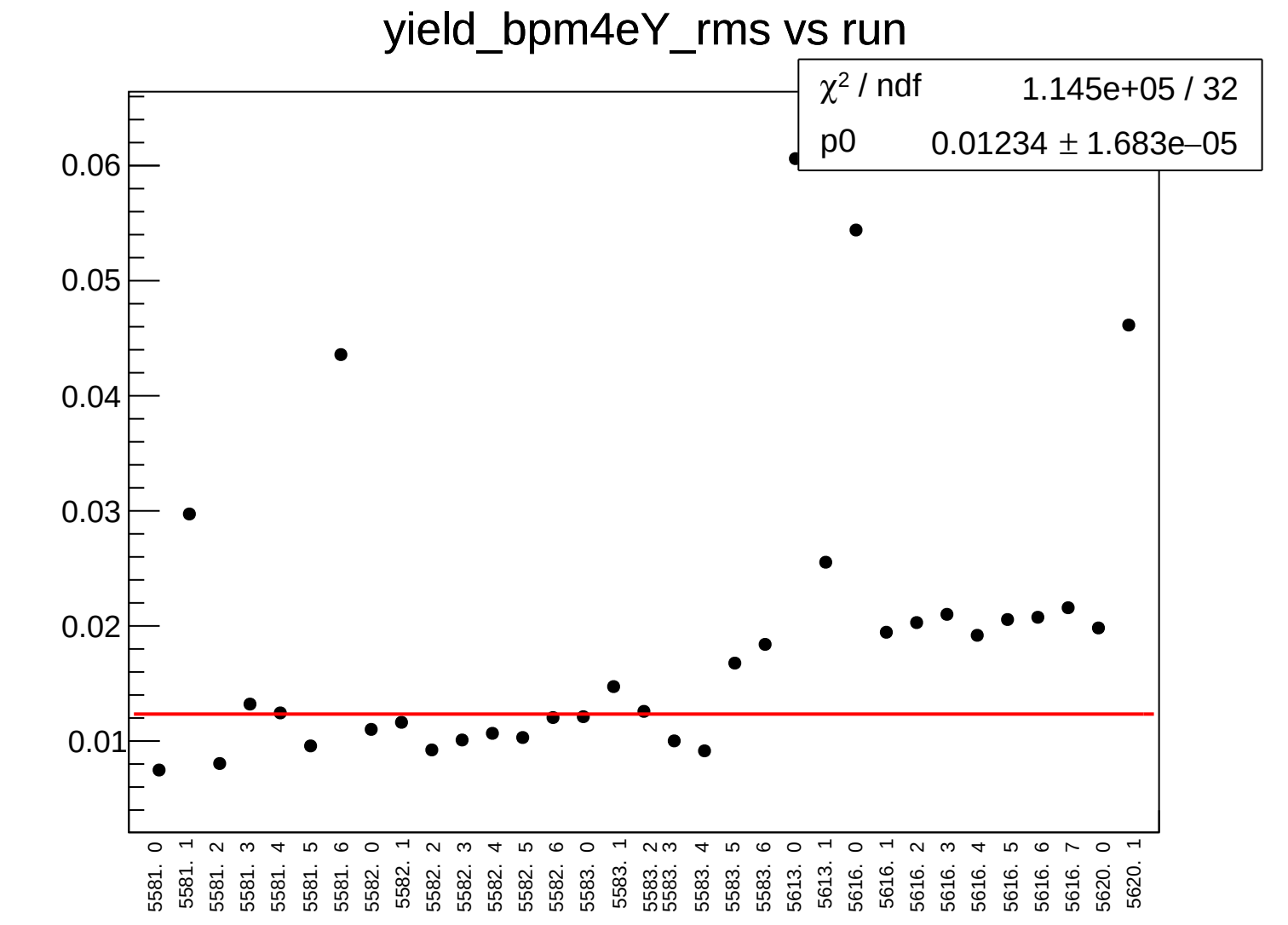

yield_bpm4eX_mean vs run
χ² / ndf 1.072e+05 / 32
p0 −0.3088 ± 0.0001013
−0.25
−0.3
−0.35
−0.4
−0.45
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 45.11
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

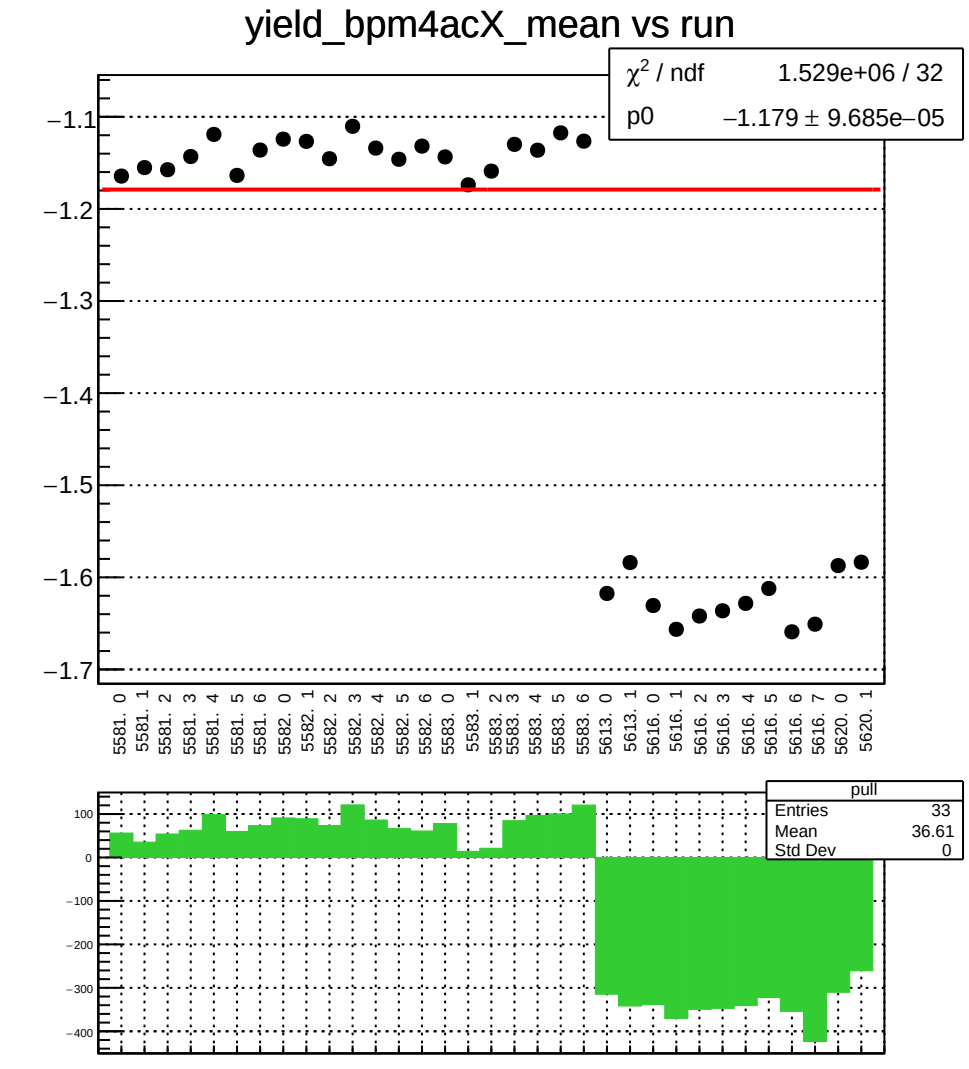

pull1D
Entries 33
Mean −4.473
Std Dev 1.678
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

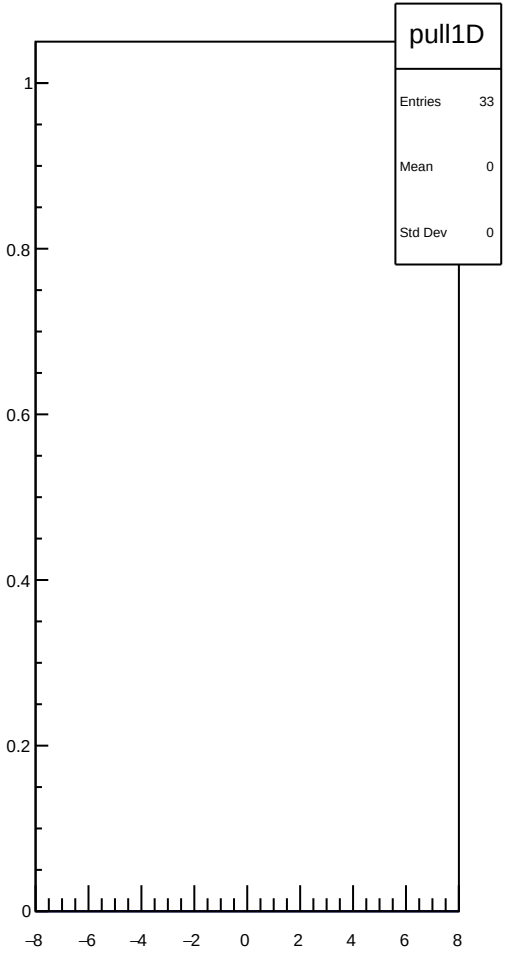

yield_bpm4eX_rms vs run
χ² / ndf 1.46e+05 / 32
p0 0.05093 ± 7.16e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

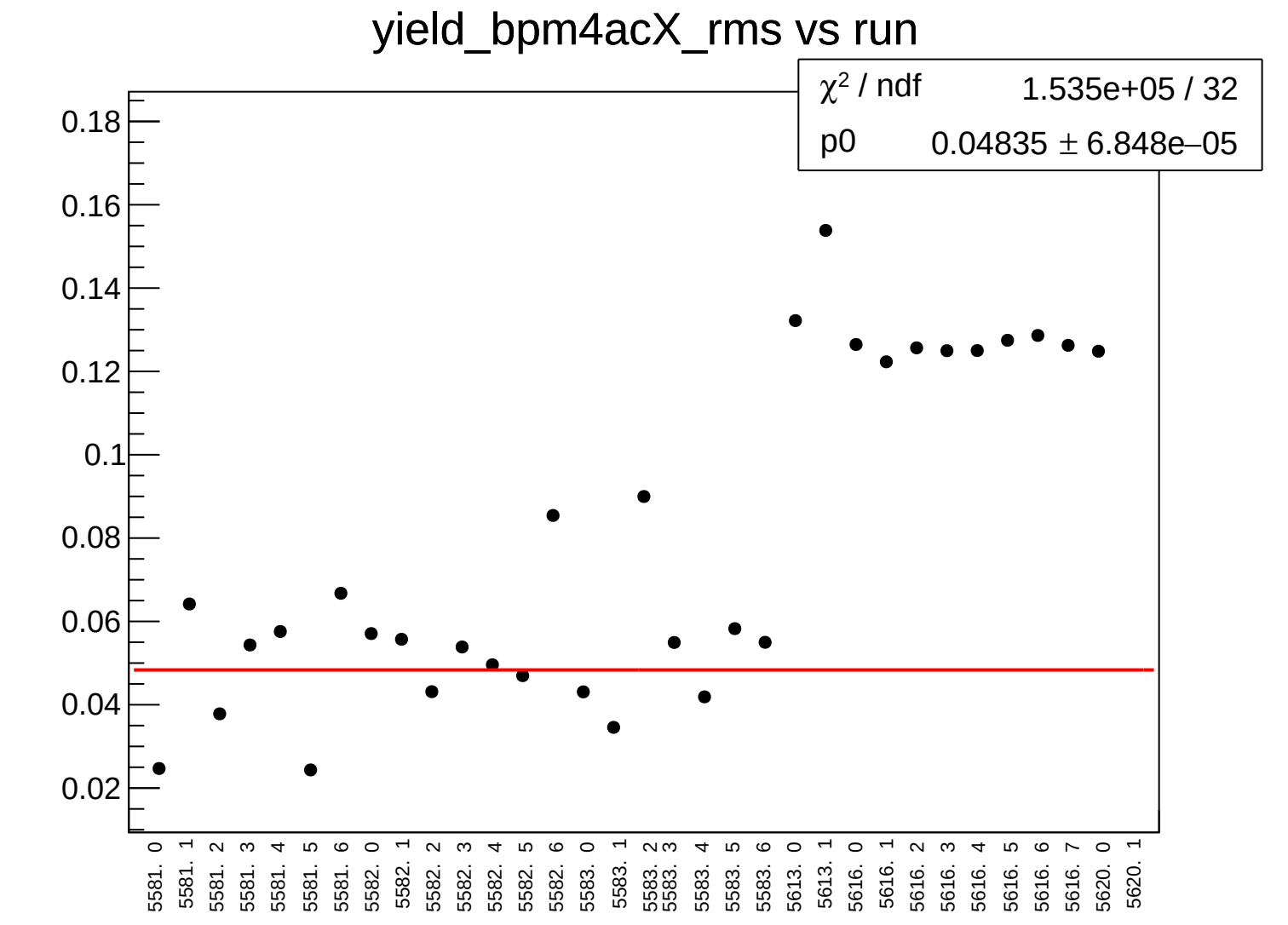

yield_bpm4eY_mean vs run
χ² / ndf 8.85e+04 / 32
p0 1.256 ± 2.381e−05
1.29
1.28
1.27
1.26
1.25
1.24
1.23
1.22
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 47.74
Std Dev 0
50
0
−50
−100
−150

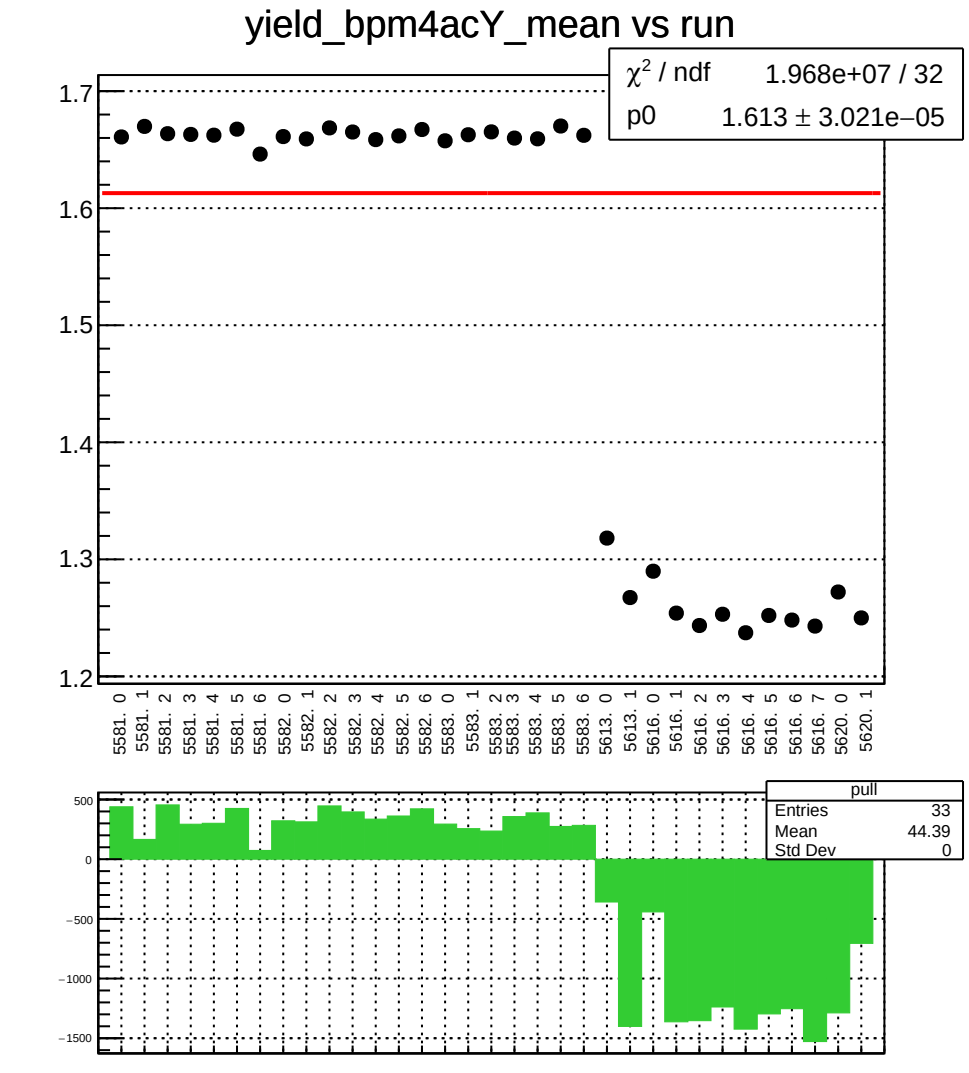

pull1D
Entries 33
Mean 0.1213
Std Dev 4.494
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

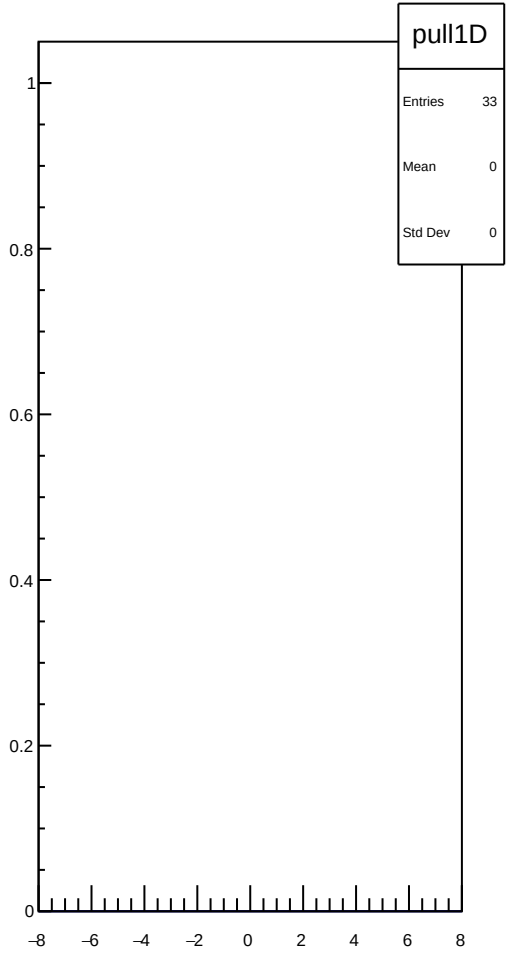

yield_bpm4eY_rms vs run
χ² / ndf 1.145e+05 / 32
p0 0.01234 ± 1.683e−05
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

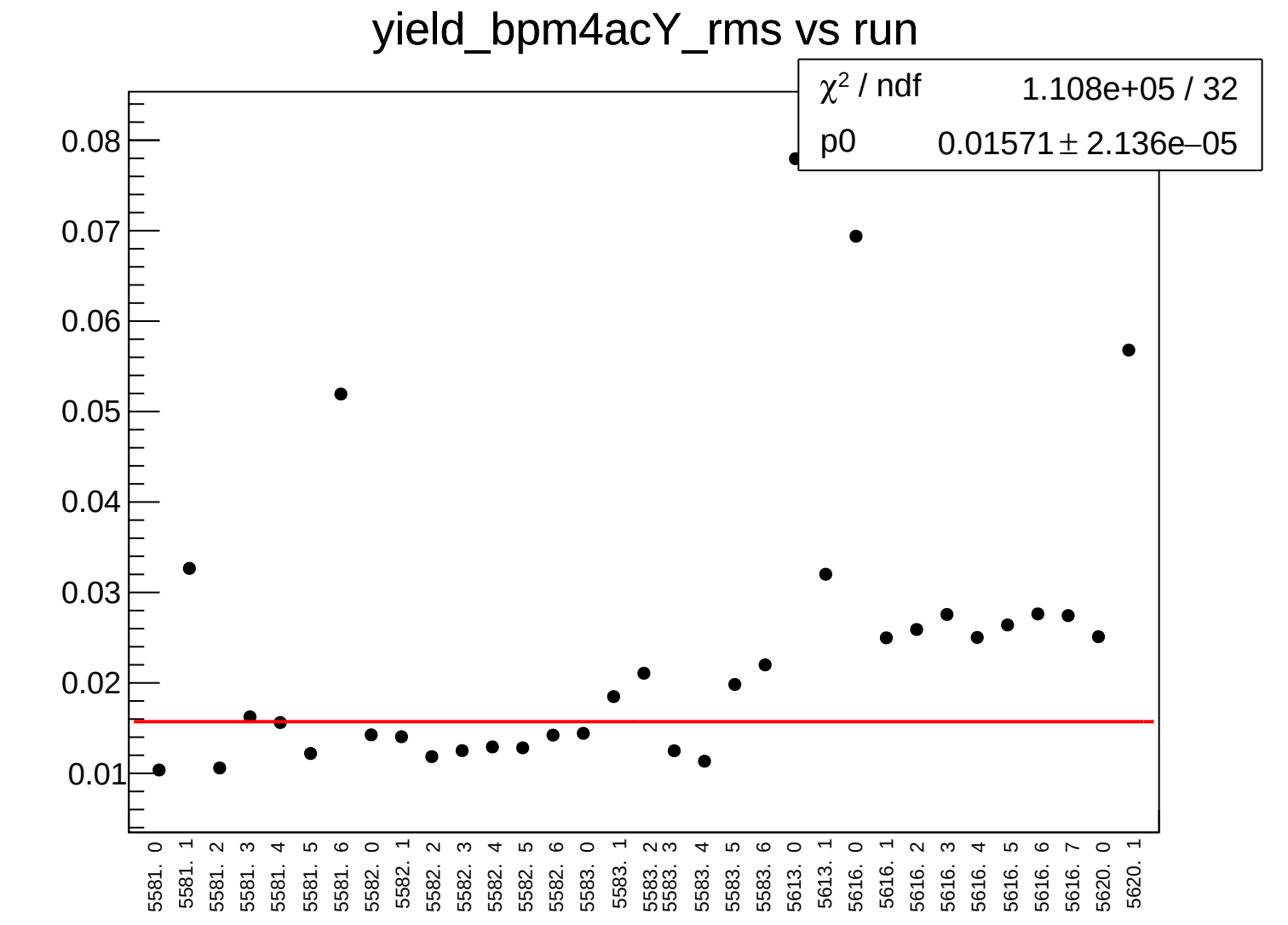

yield_bpm4acX_mean vs run
χ² / ndf 1.529e+06 / 32
p0 −1.179 ± 9.685e−05
−1.1
−1.2
−1.3
−1.4
−1.5
−1.6
−1.7
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.61
Std Dev 0
100
0
−100
−200
−300
−400

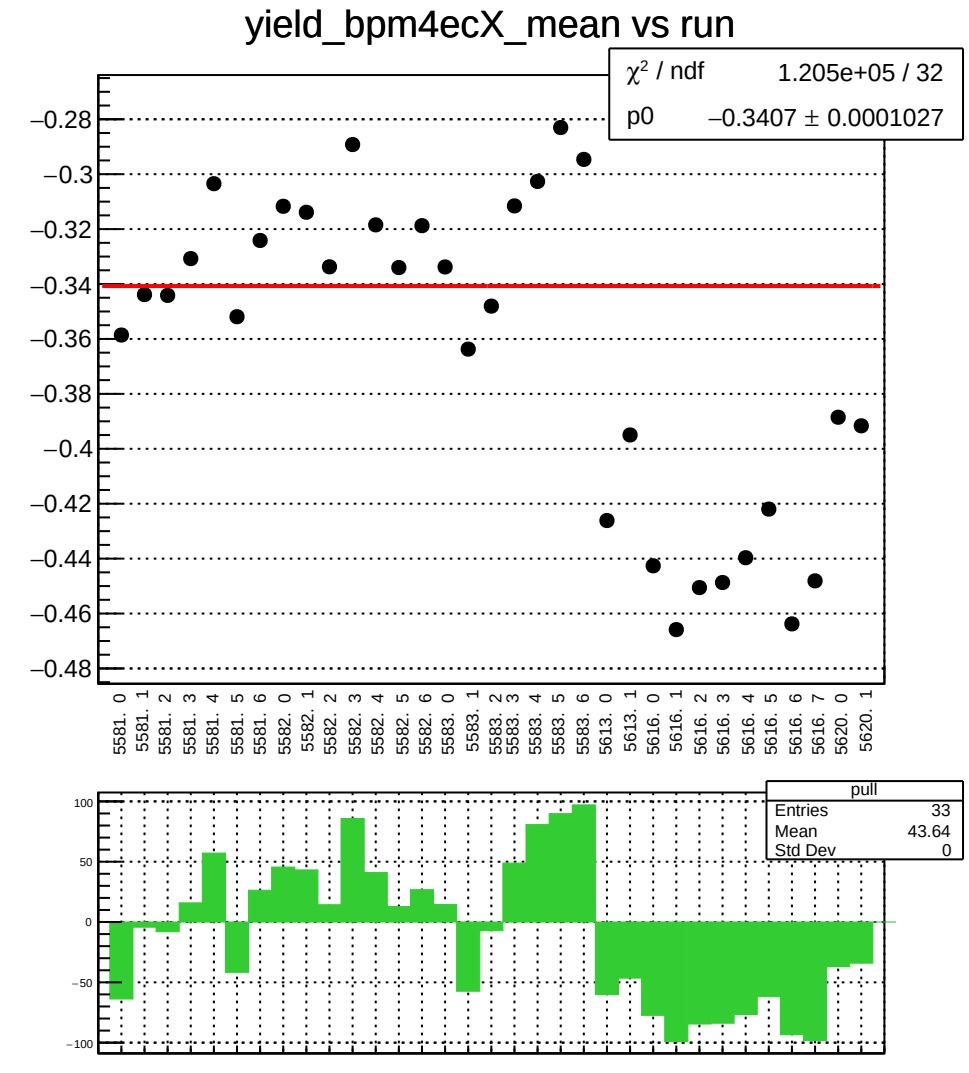

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

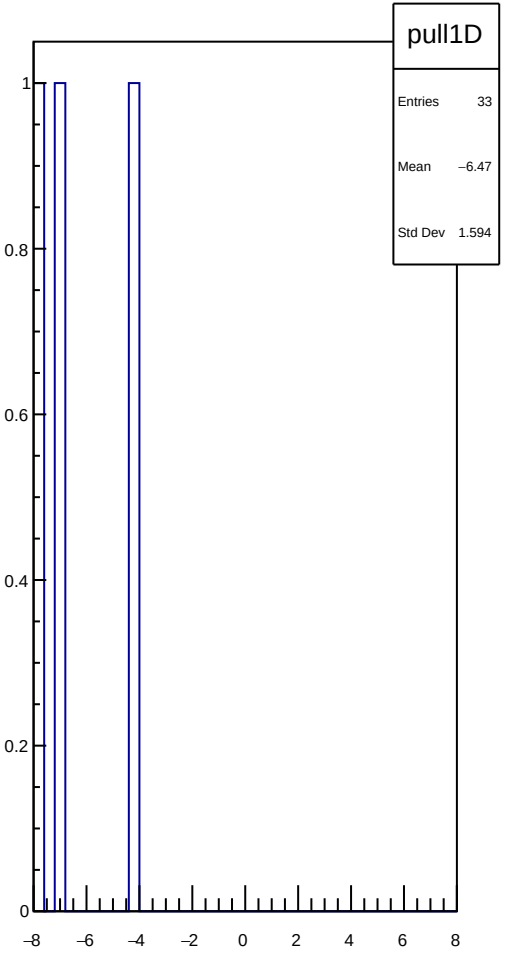

yield_bpm4acX_rms vs run
χ² / ndf 1.535e+05 / 32
p0 0.04835 ± 6.848e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

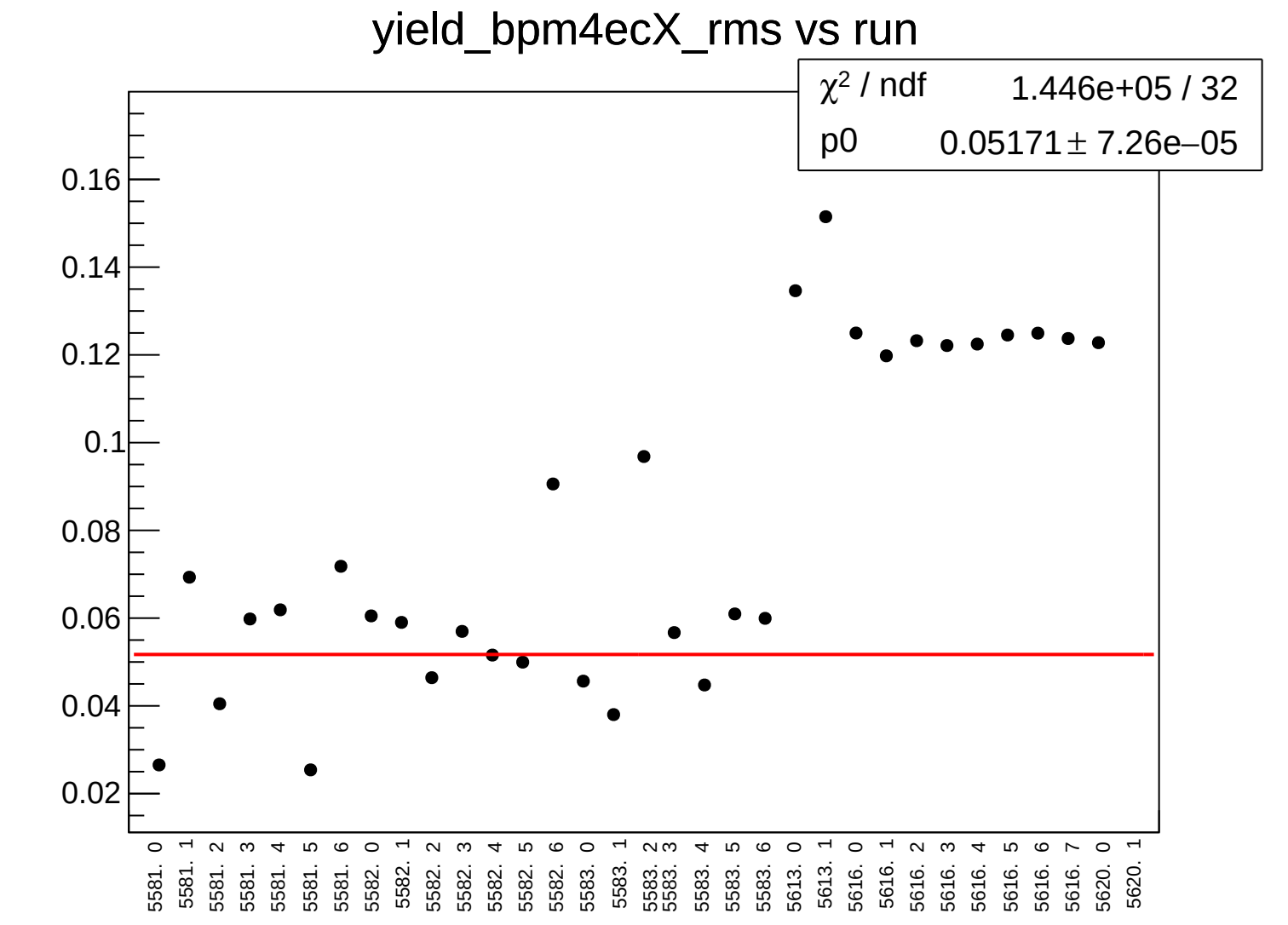

yield_bpm4acY_mean vs run
χ² / ndf 1.968e+07 / 32
p0 1.613 ± 3.021e−05
1.7
1.6
1.5
1.4
1.3
1.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 44.39
Std Dev 0
500
0
−500
−1000
−1500

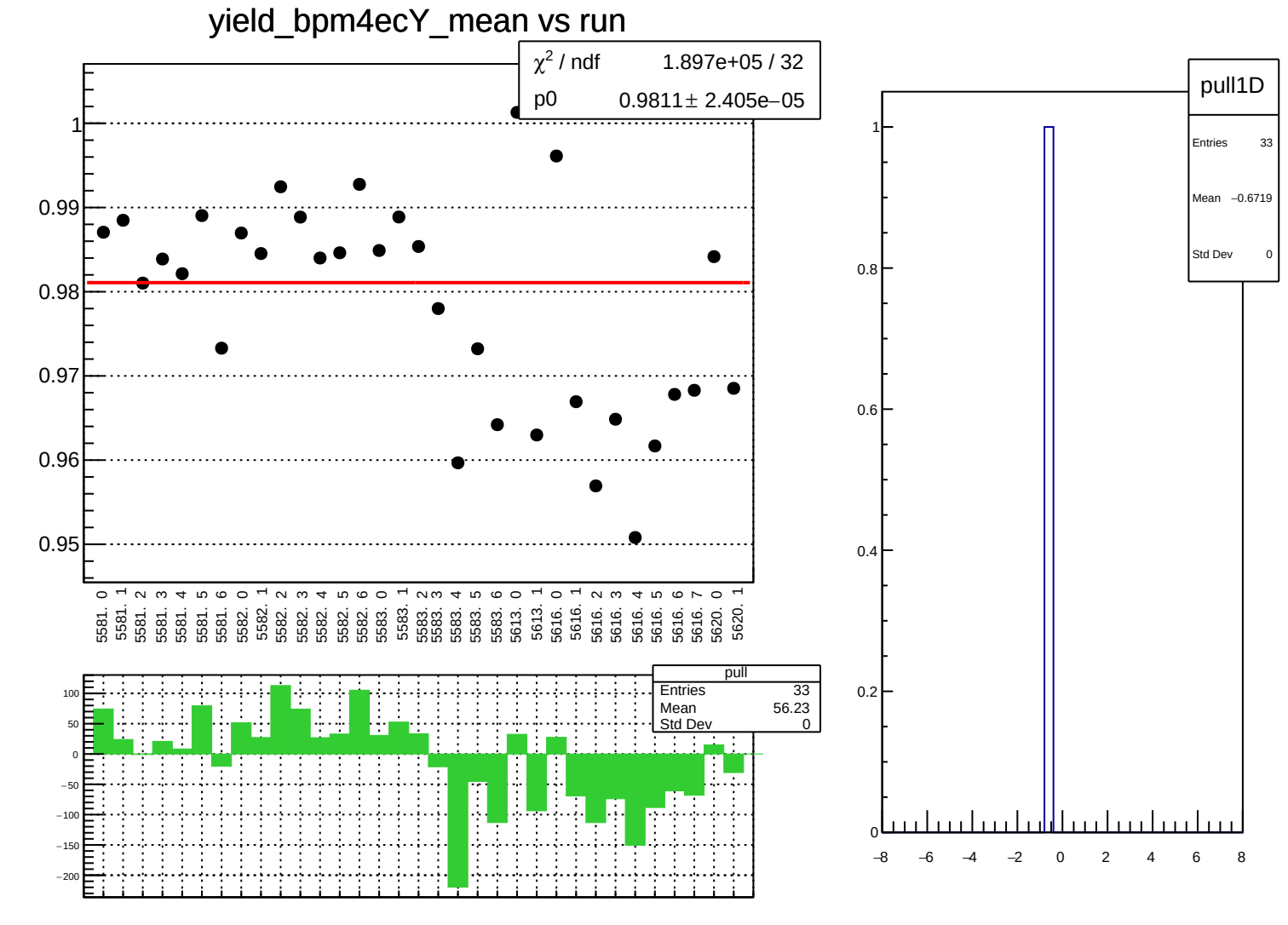

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

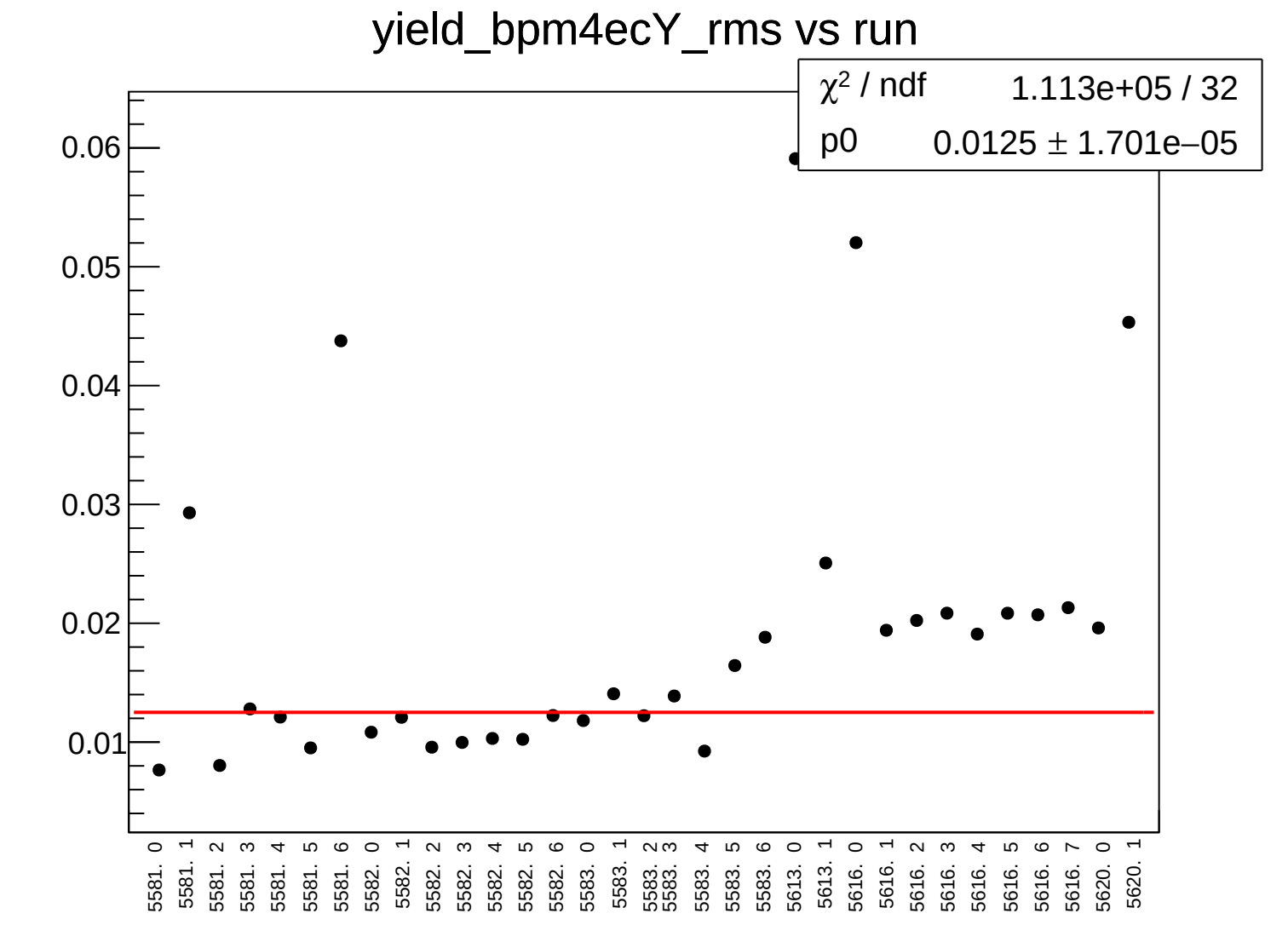

yield_bpm4acY_rms vs run
χ² / ndf 1.108e+05 / 32
p0 0.01571 ± 2.136e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

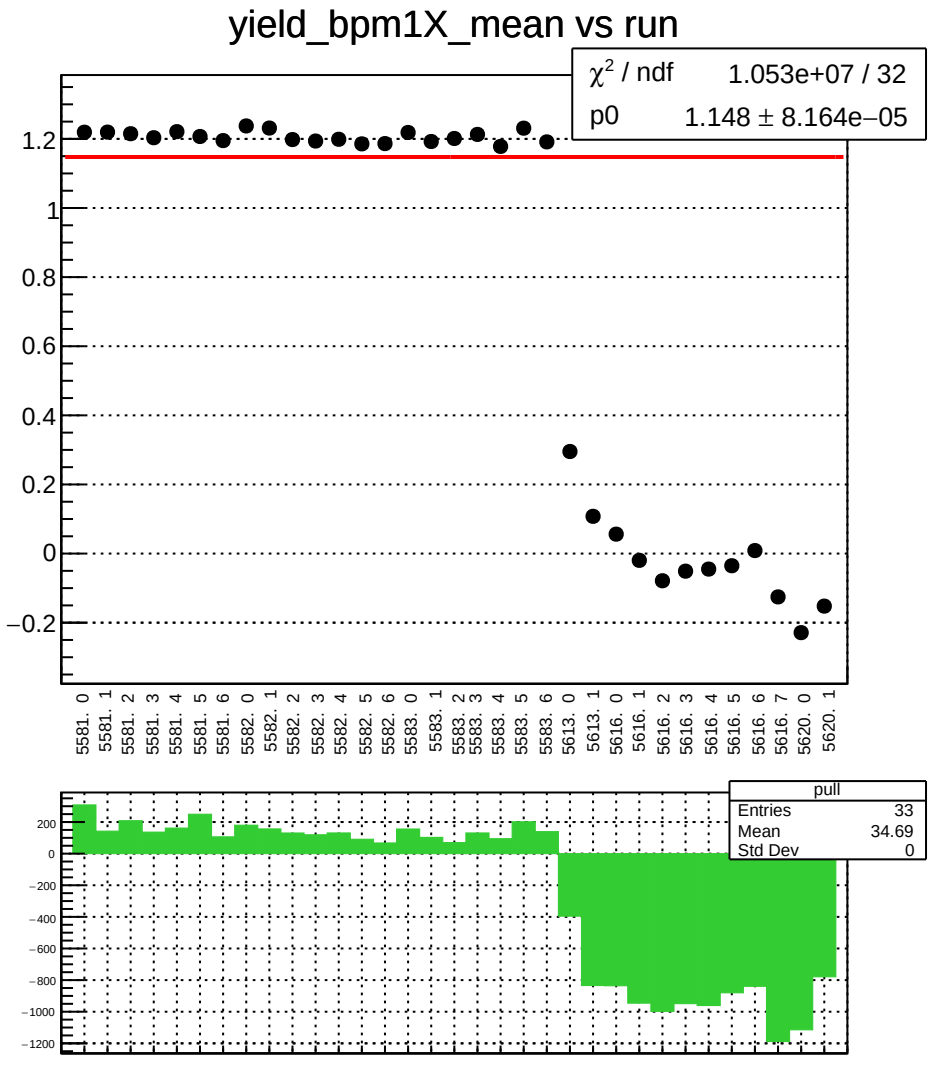

yield_bpm4ecX_mean vs run
χ² / ndf 1.205e+05 / 32
p0 −0.3407 ± 0.0001027
−0.28
−0.3
−0.32
−0.34
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 43.64
Std Dev 0
100
50
0
−50
−100

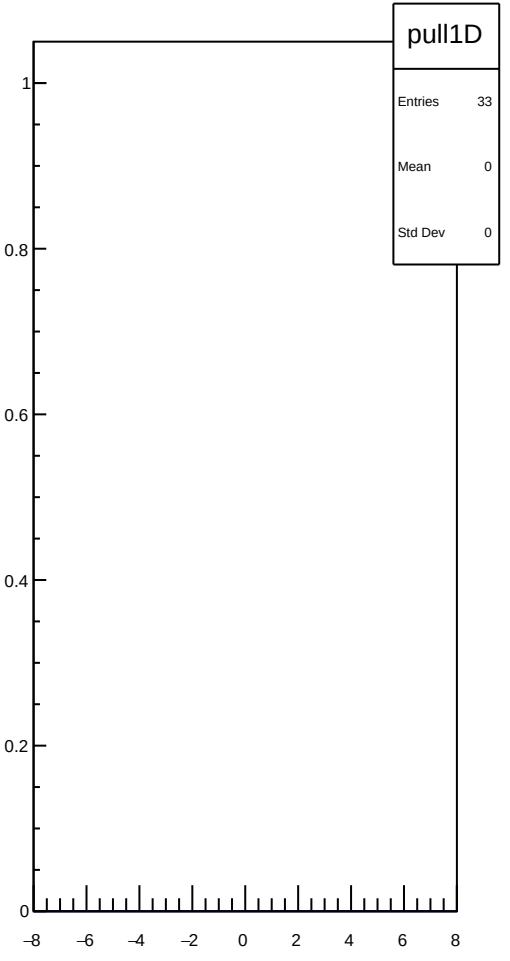

pull1D
Entries 33
Mean −6.47
Std Dev 1.594
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

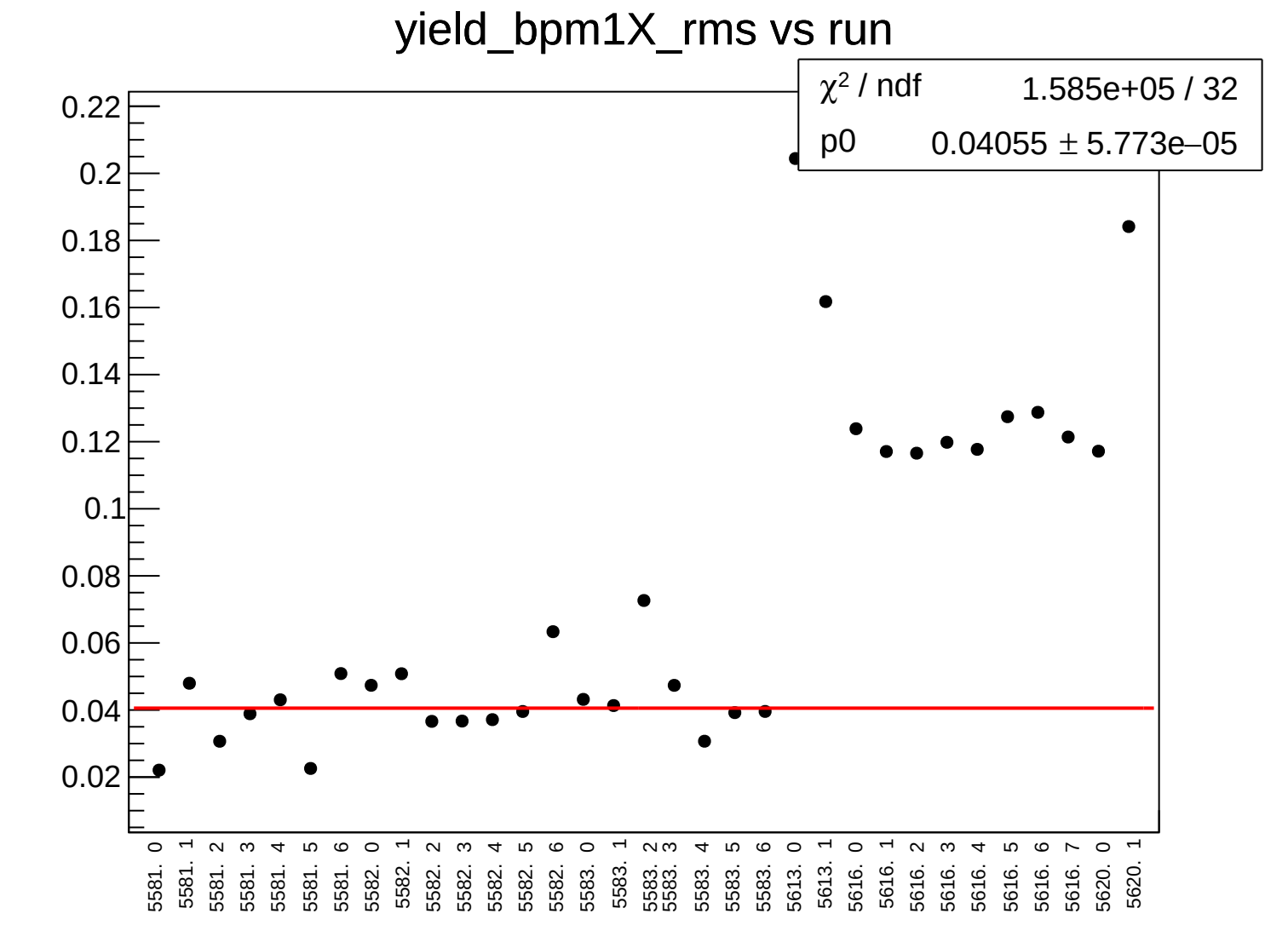

yield_bpm4ecX_rms vs run
χ² / ndf 1.446e+05 / 32
p0 0.05171 ± 7.26e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

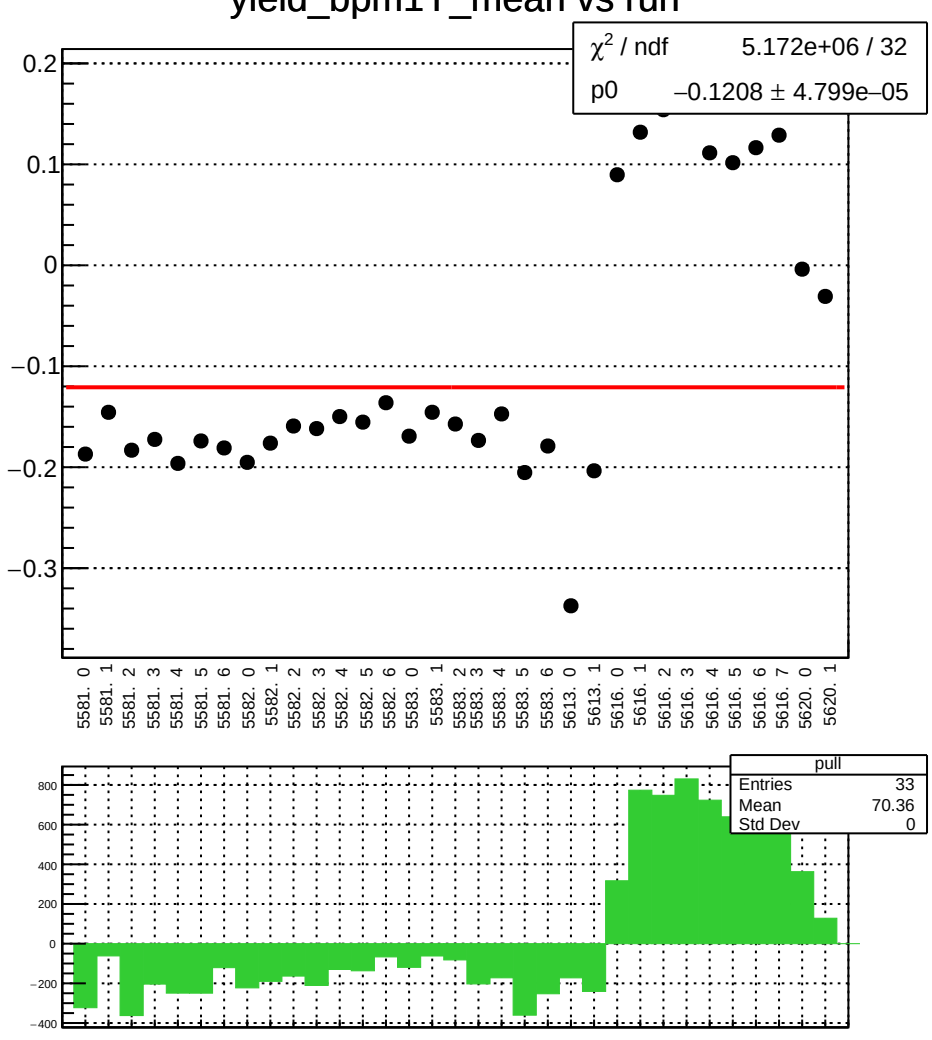

yield_bpm4ecY_mean vs run
χ² / ndf 1.897e+05 / 32
p0 0.9811 ± 2.405e−05
1
0.99
0.98
0.97
0.96
0.95
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 56.23
Std Dev 0
100
50
0
−50
−100
−150
−200
pull1D
Entries 33
Mean −0.6719
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

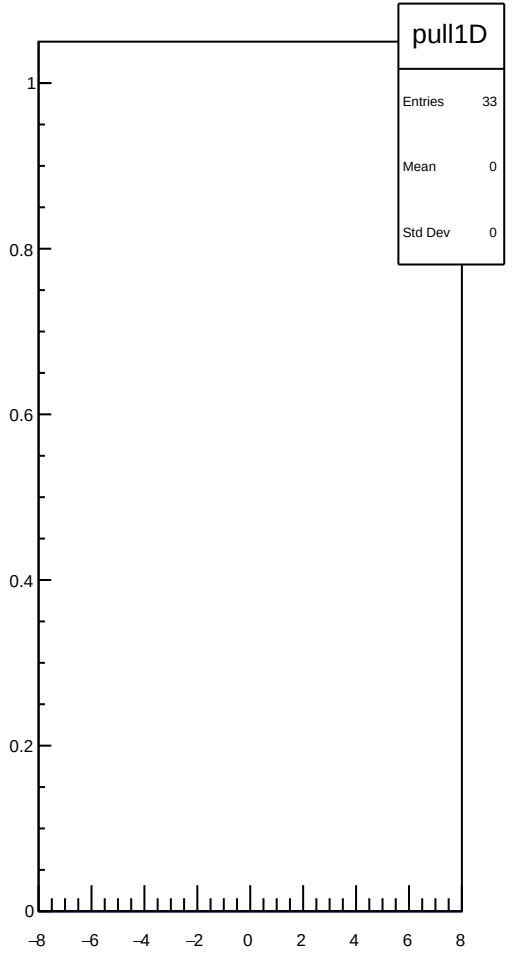

yield_bpm4ecY_rms vs run
χ² / ndf 1.113e+05 / 32
p0 0.0125 ± 1.701e−05
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

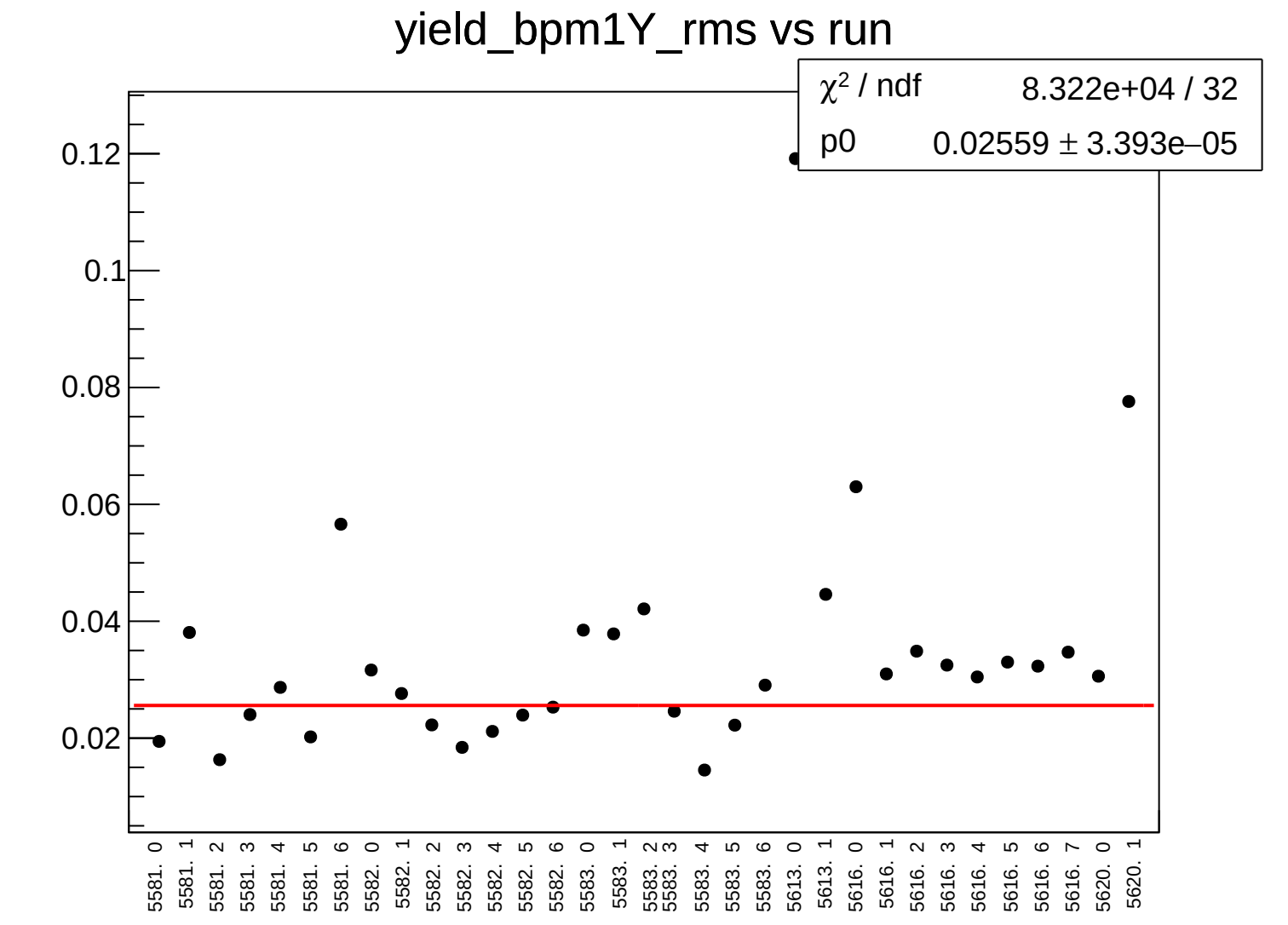

yield_bpm1X_mean vs run
χ² / ndf 1.053e+07 / 32
p0 1.148 ± 8.164e−05
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.69
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200

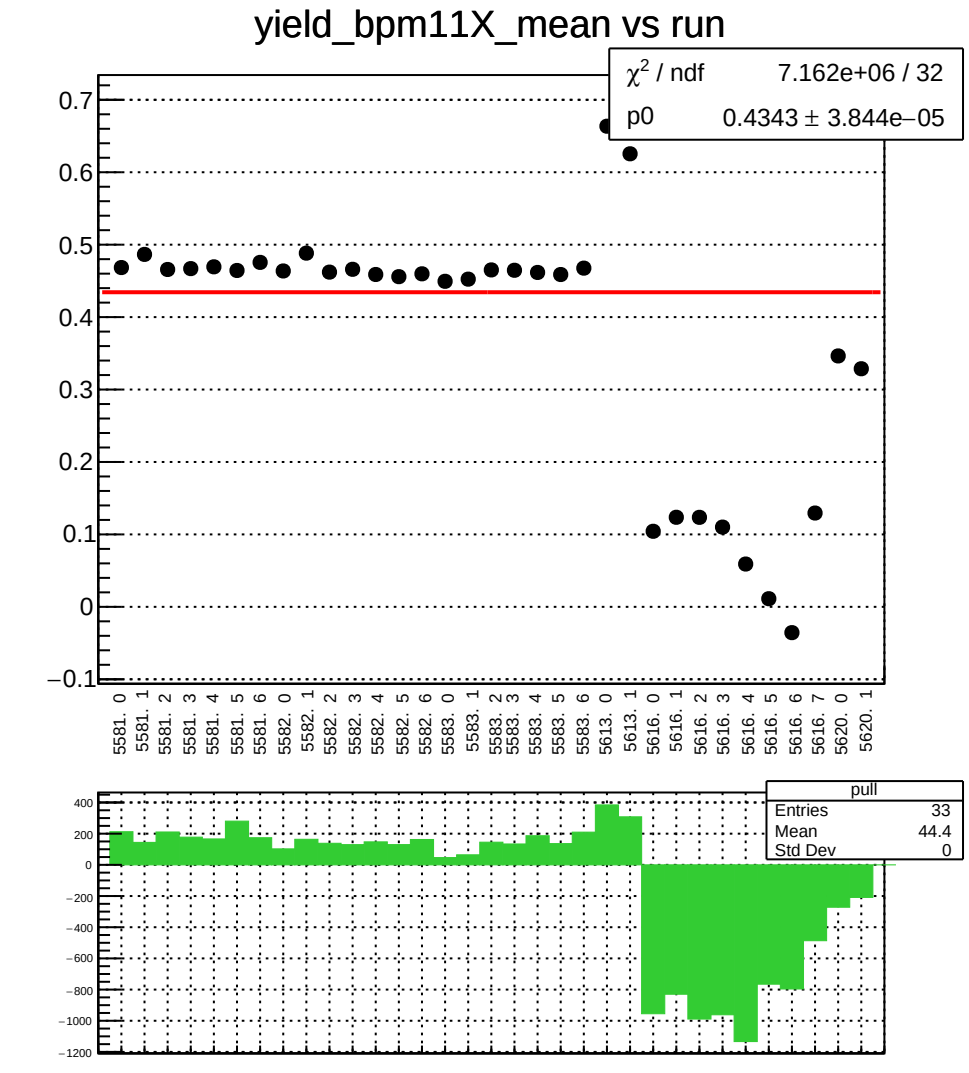

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

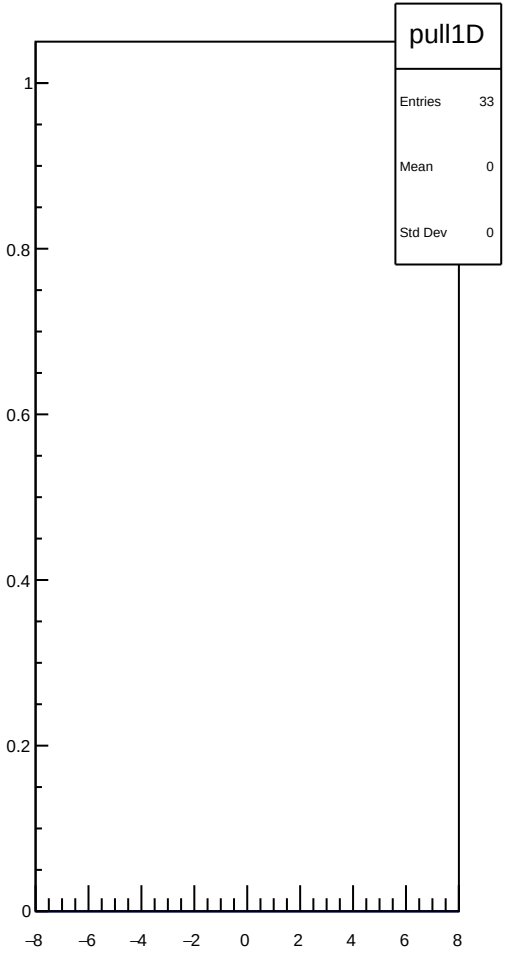

yield_bpm1X_rms vs run
χ² / ndf 1.585e+05 / 32
p0 0.04055 ± 5.773e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

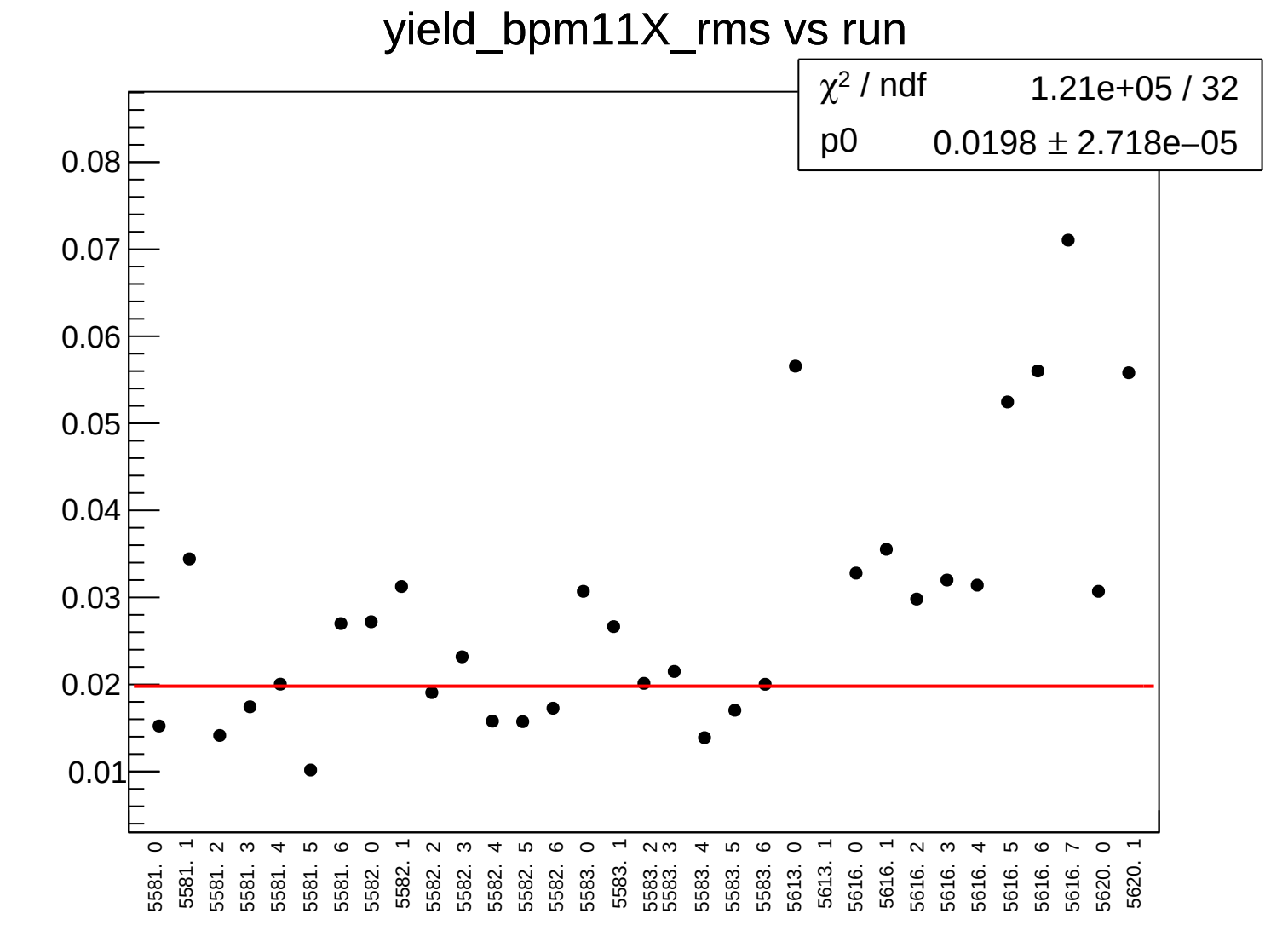

yield_bpm1Y_mean vs run
χ² / ndf 5.172e+06 / 32
p0 −0.1208 ± 4.799e−05
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 70.36
Std Dev 0
800
600
400
200
0
−200
−400

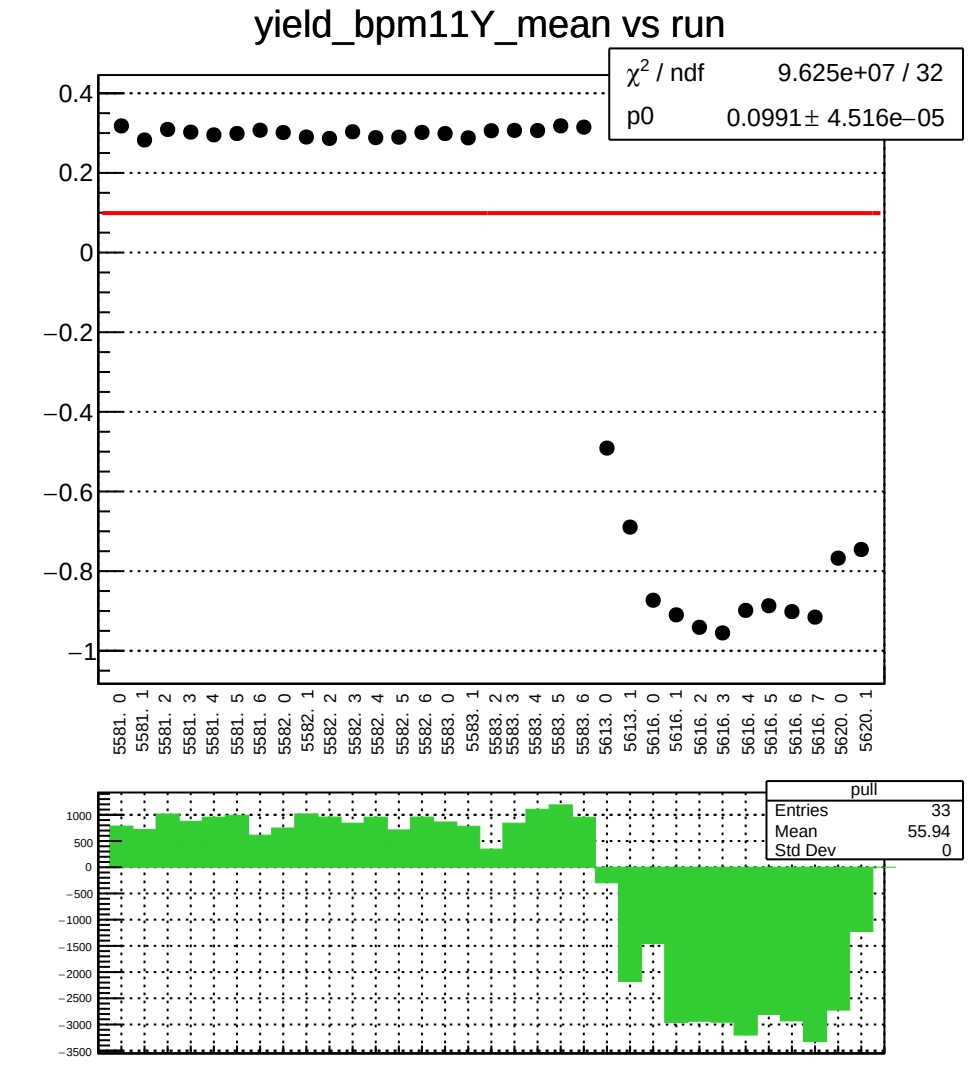

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

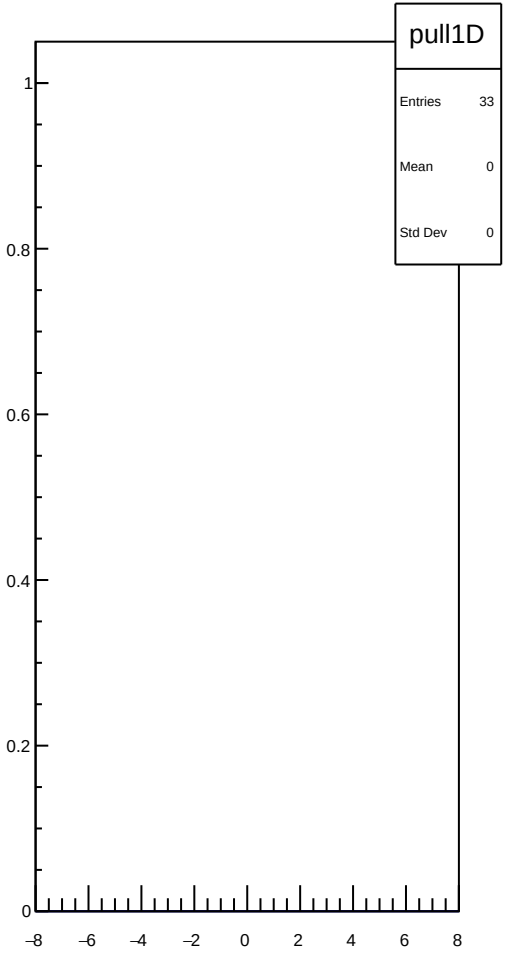

yield_bpm1Y_rms vs run
χ² / ndf 8.322e+04 / 32
p0 0.02559 ± 3.393e−05
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

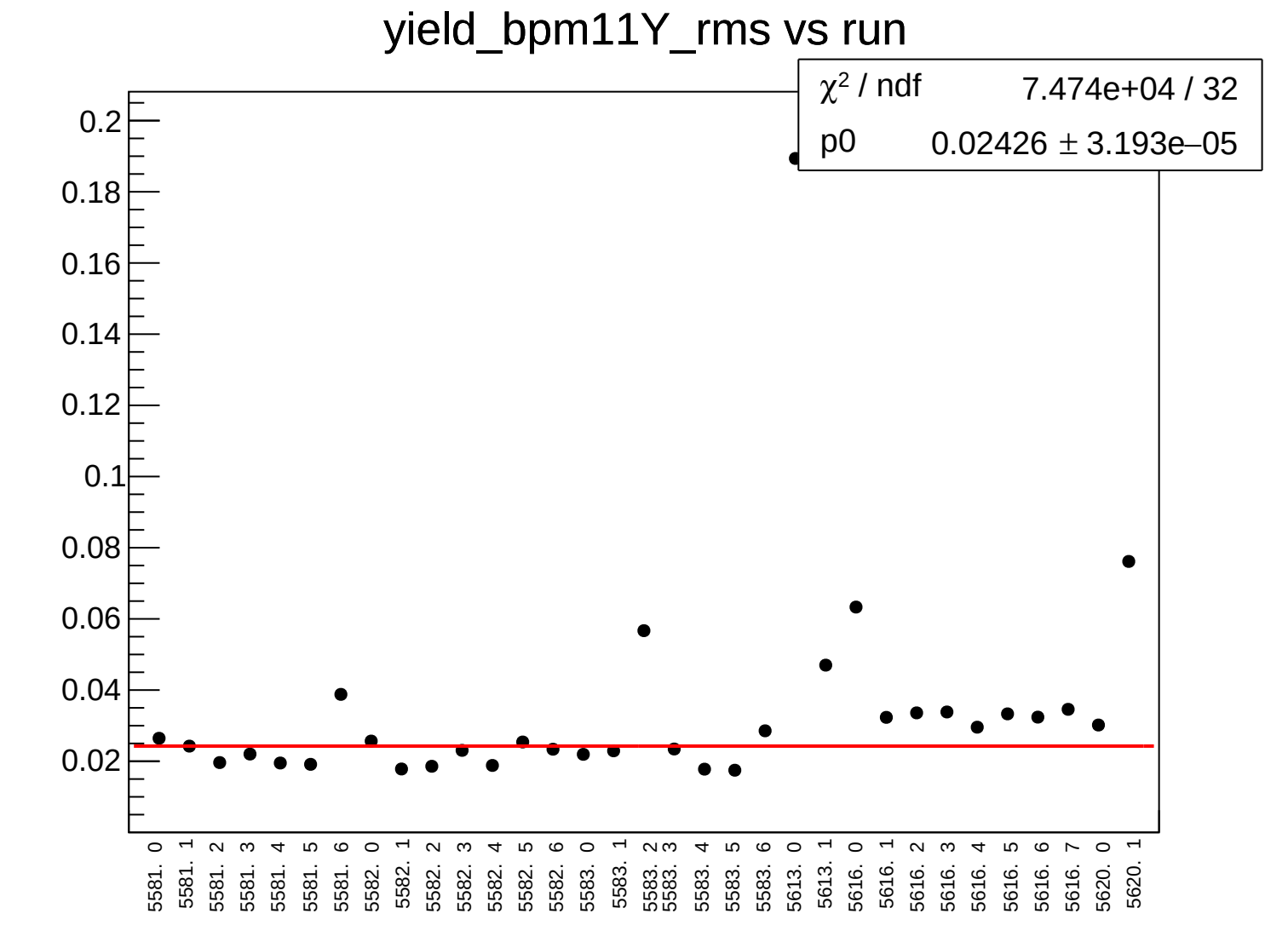

yield_bpm11X_mean vs run
χ² / ndf 7.162e+06 / 32
p0 0.4343 ± 3.844e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 44.4
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200

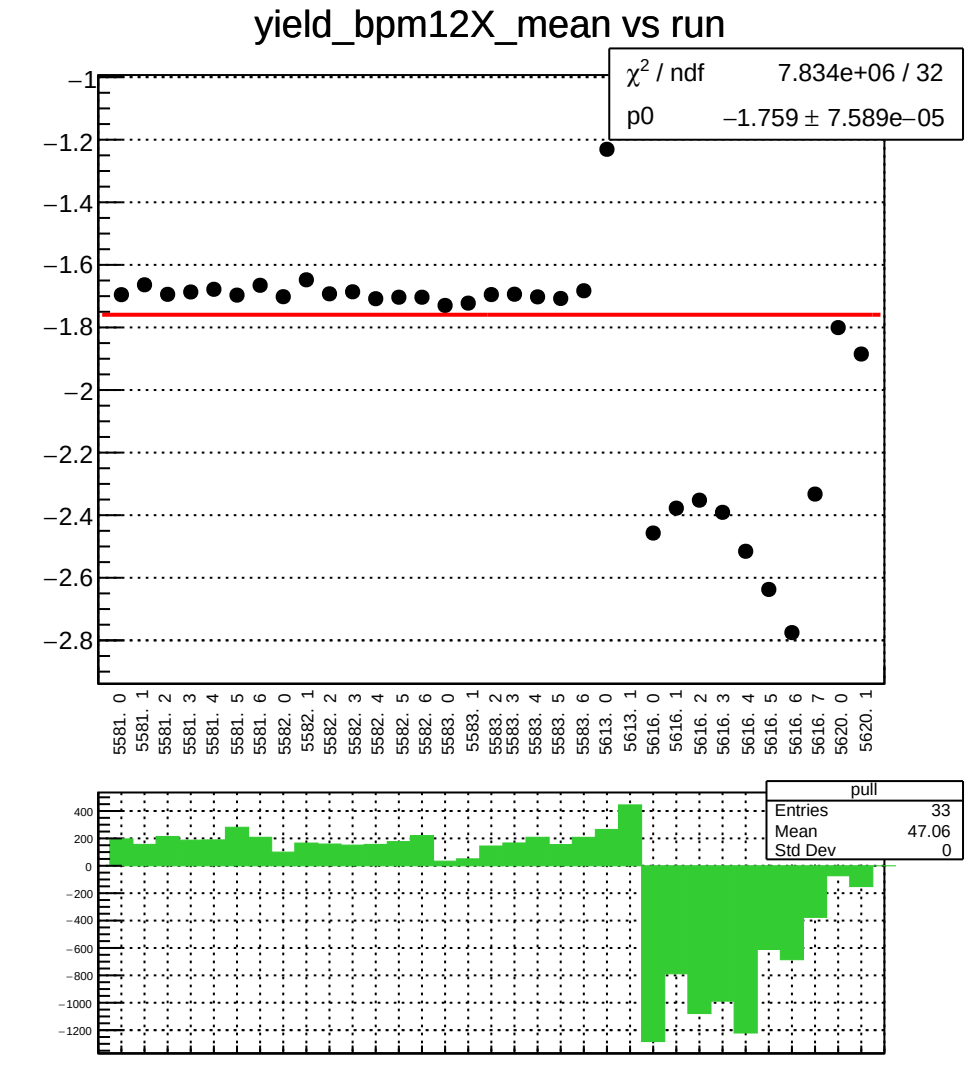

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

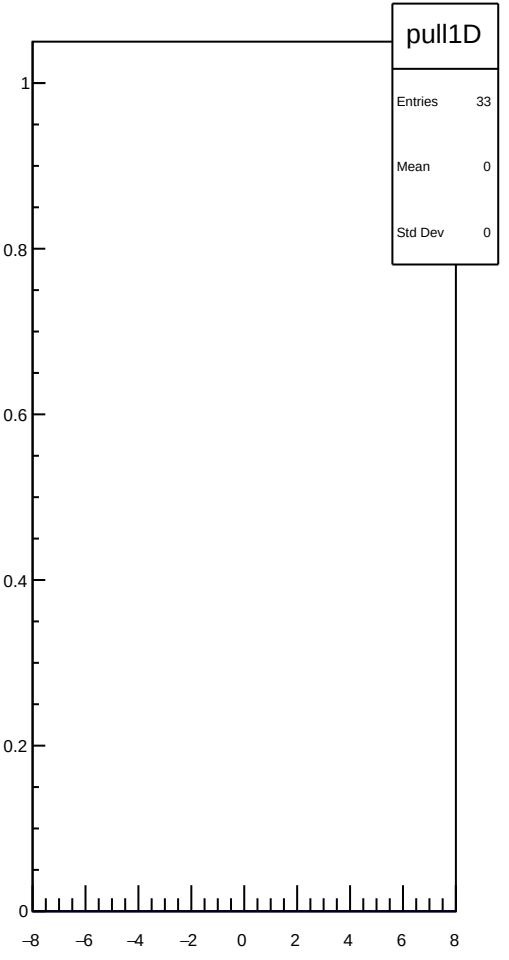

yield_bpm11X_rms vs run
χ² / ndf 1.21e+05 / 32
p0 0.0198 ± 2.718e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

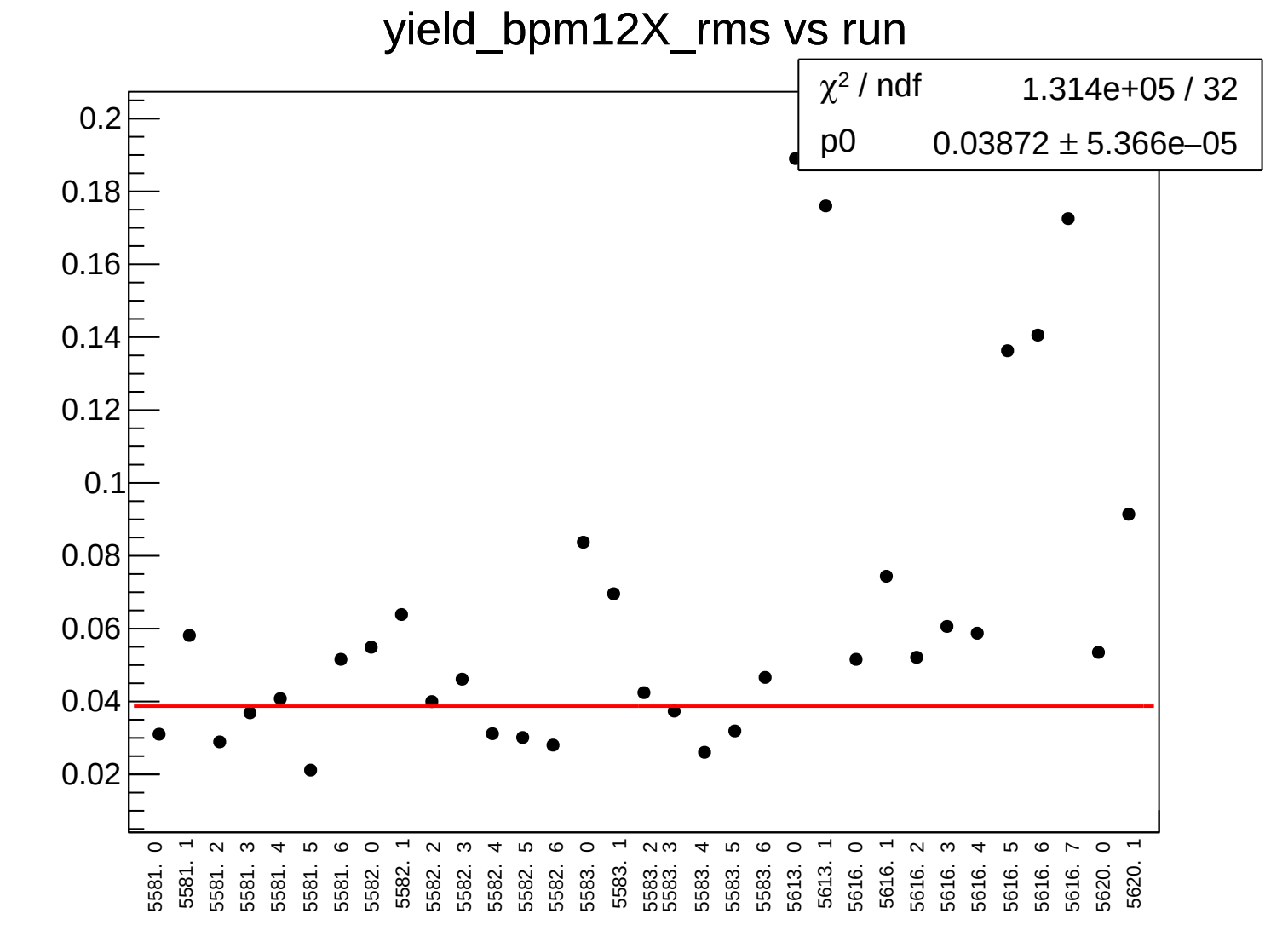

yield_bpm11Y_mean vs run
χ² / ndf 9.625e+07 / 32
p0 0.0991 ± 4.516e−05
pull
Entries 33
Mean 55.94
Std Dev 0

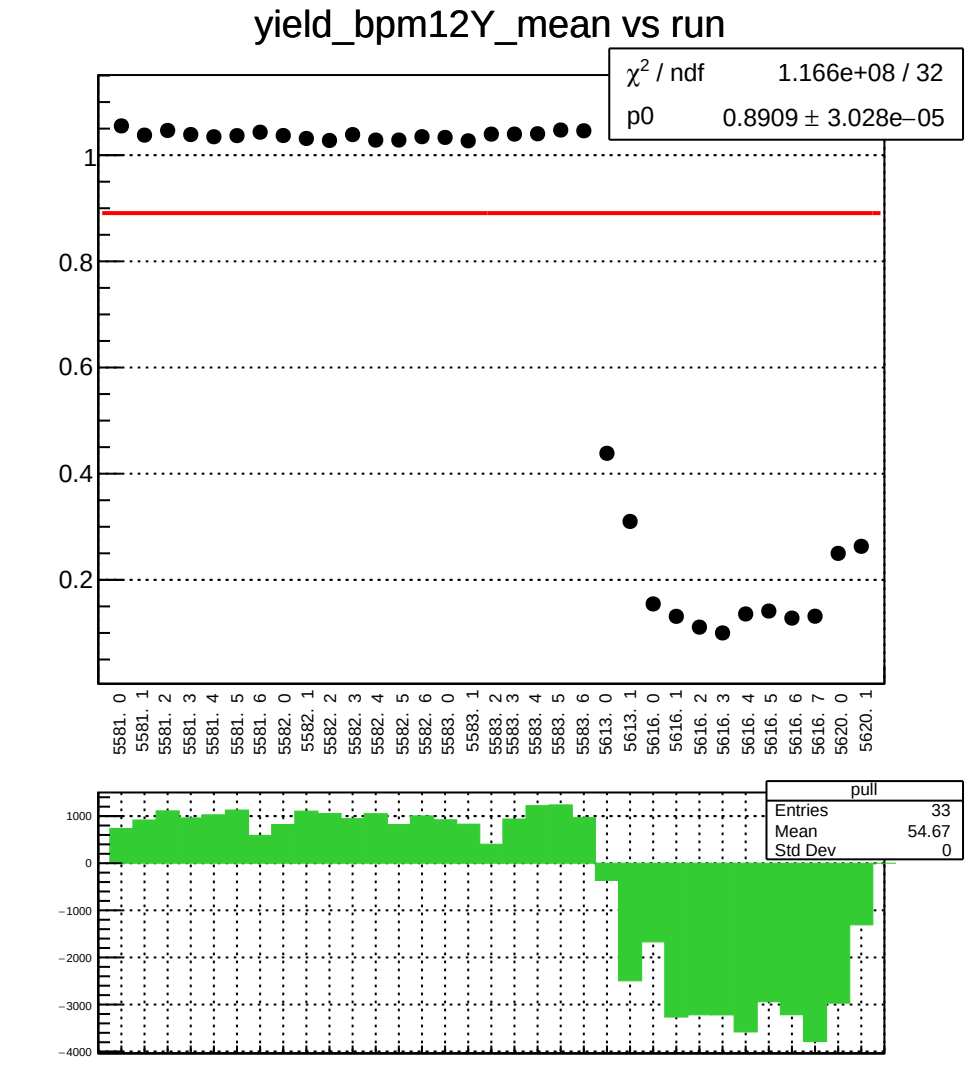

pull1D
Entries 33
Mean 0
Std Dev 0

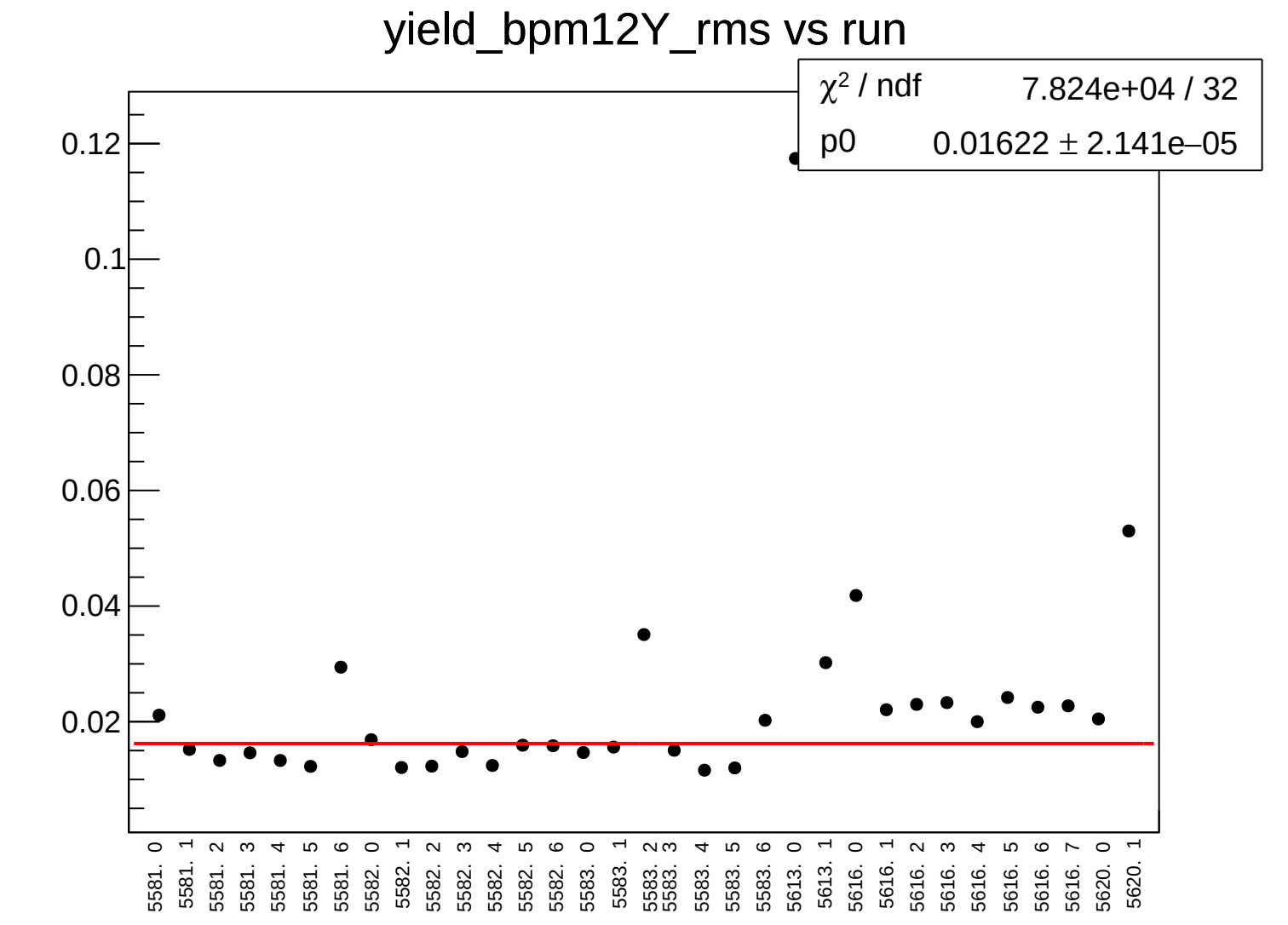

yield_bpm11Y_rms vs run
χ² / ndf 7.474e+04 / 32
p0 0.02426 ± 3.193e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

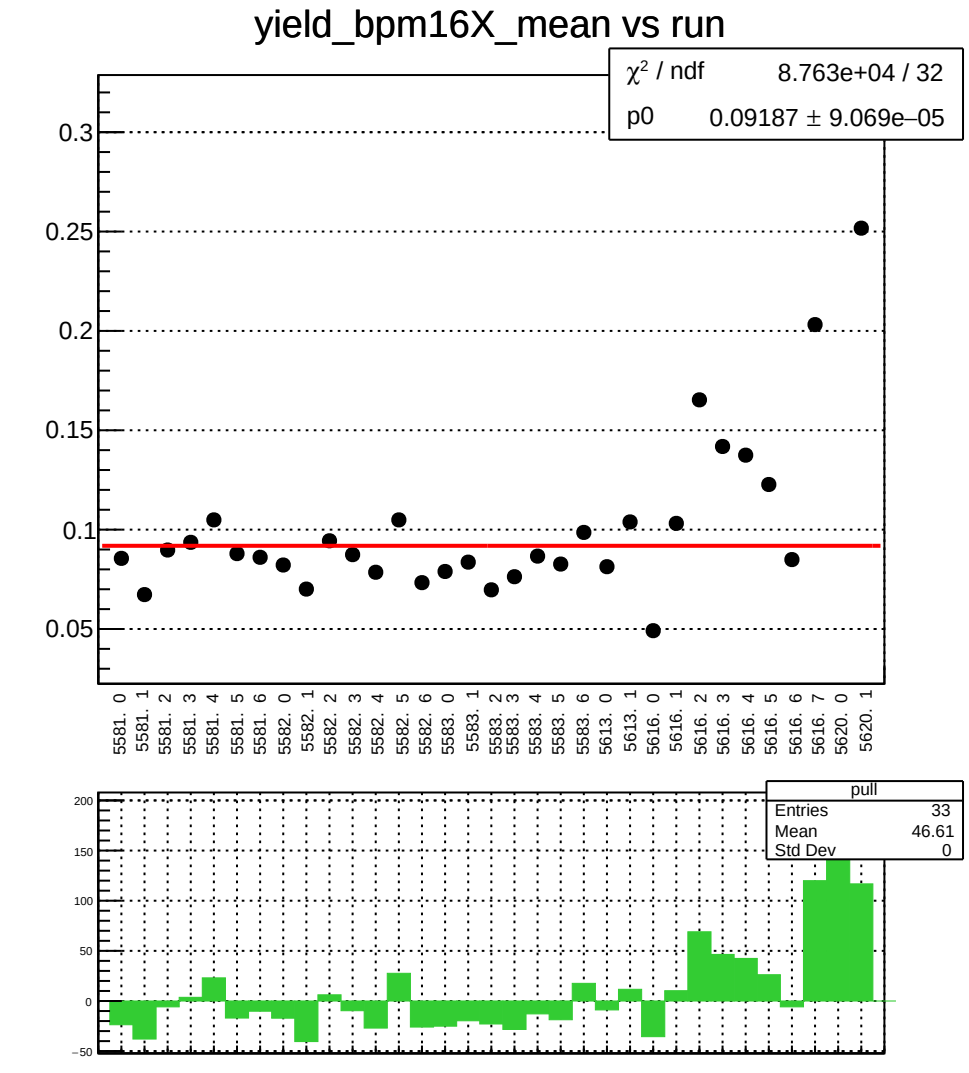

yield_bpm12X_mean vs run
χ² / ndf 7.834e+06 / 32
p0 −1.759 ± 7.589e−05
−1
−1.2
−1.4
−1.6
−1.8
−2
−2.2
−2.4
−2.6
−2.8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 47.06
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200

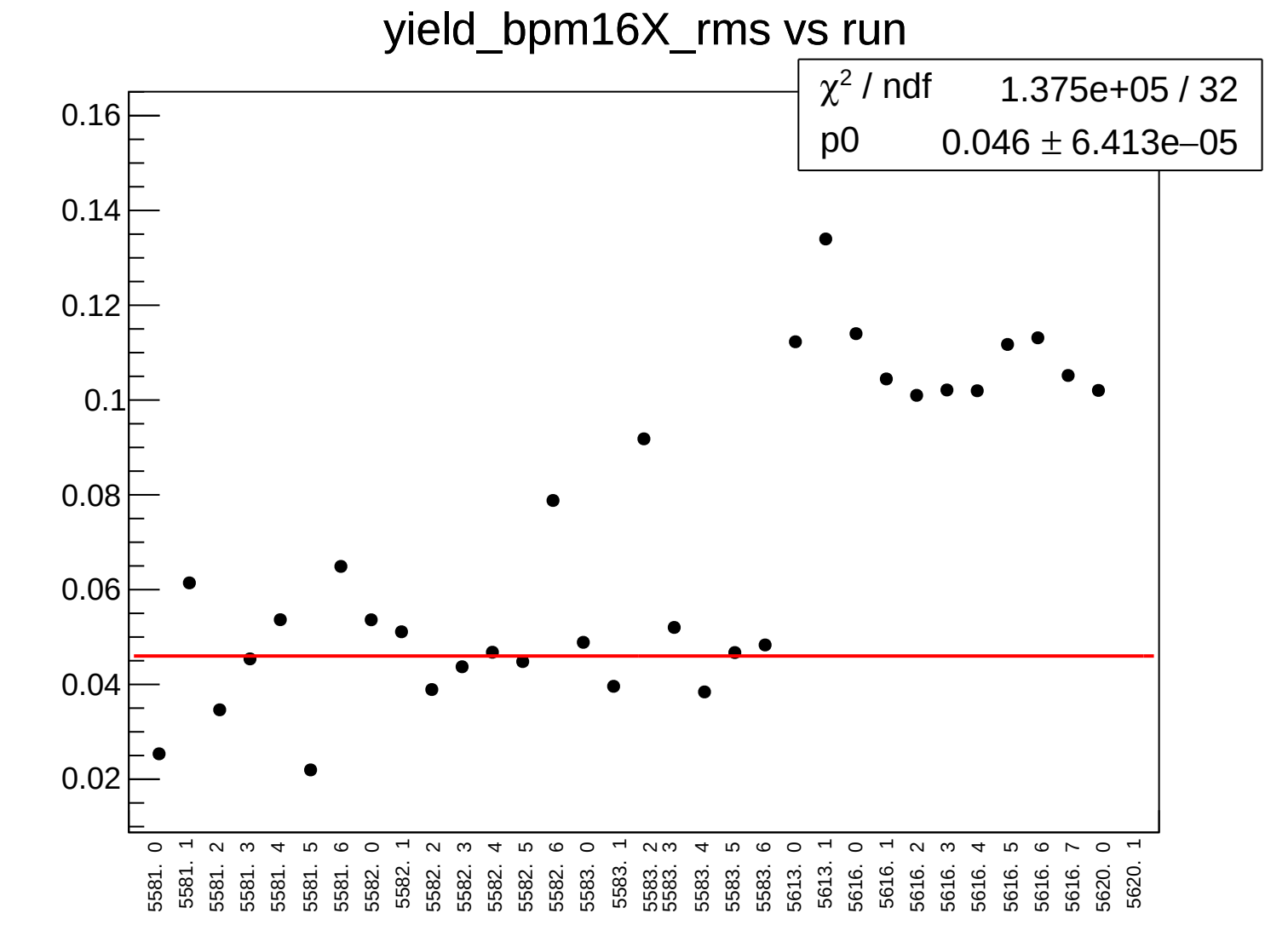

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

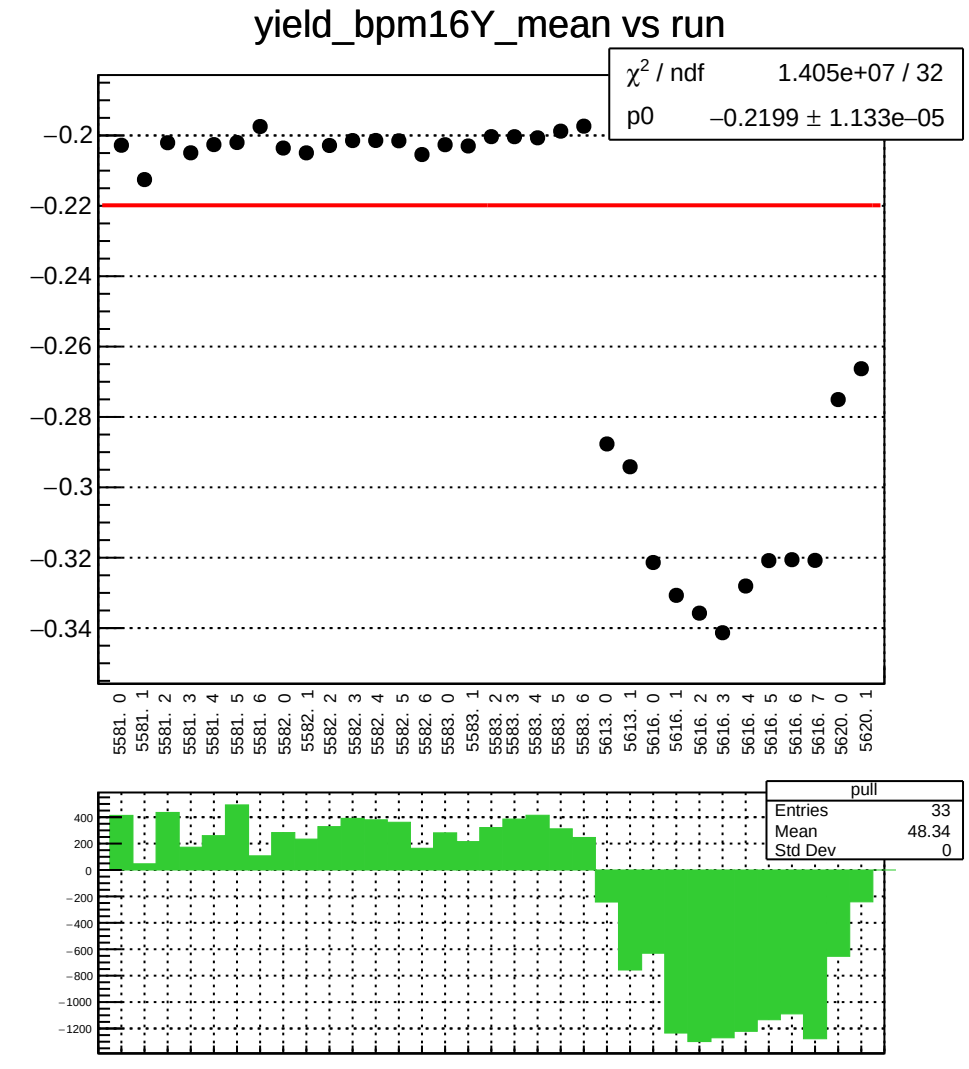

yield_bpm12X_rms vs run
χ² / ndf 1.314e+05 / 32
p0 0.03872 ± 5.366e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

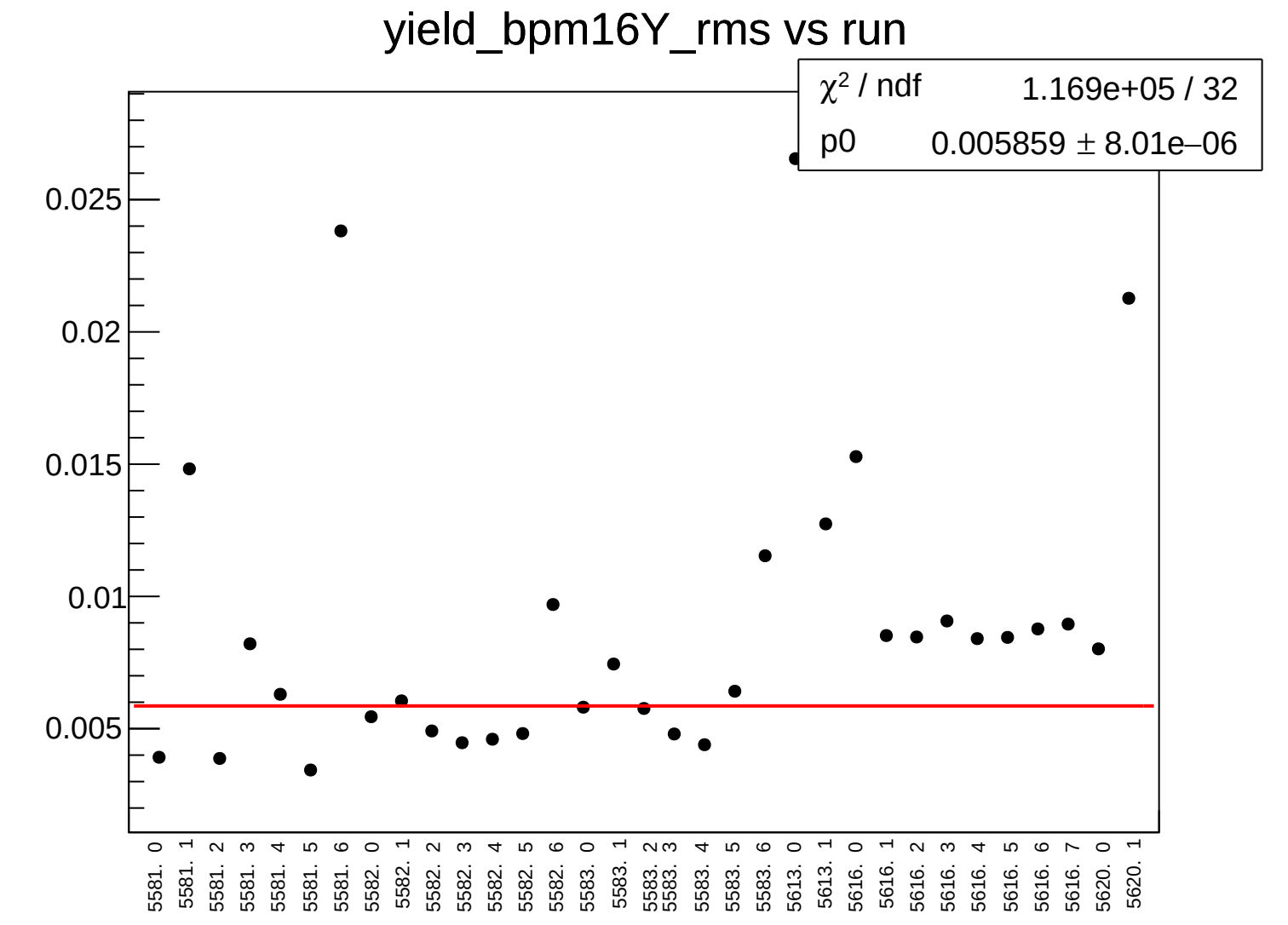

yield_bpm12Y_mean vs run
χ² / ndf 1.166e+08 / 32
p0 0.8909 ± 3.028e−05
1
0.8
0.6
0.4
0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 54.67
Std Dev 0
1000
0
−1000
−2000
−3000
−4000
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

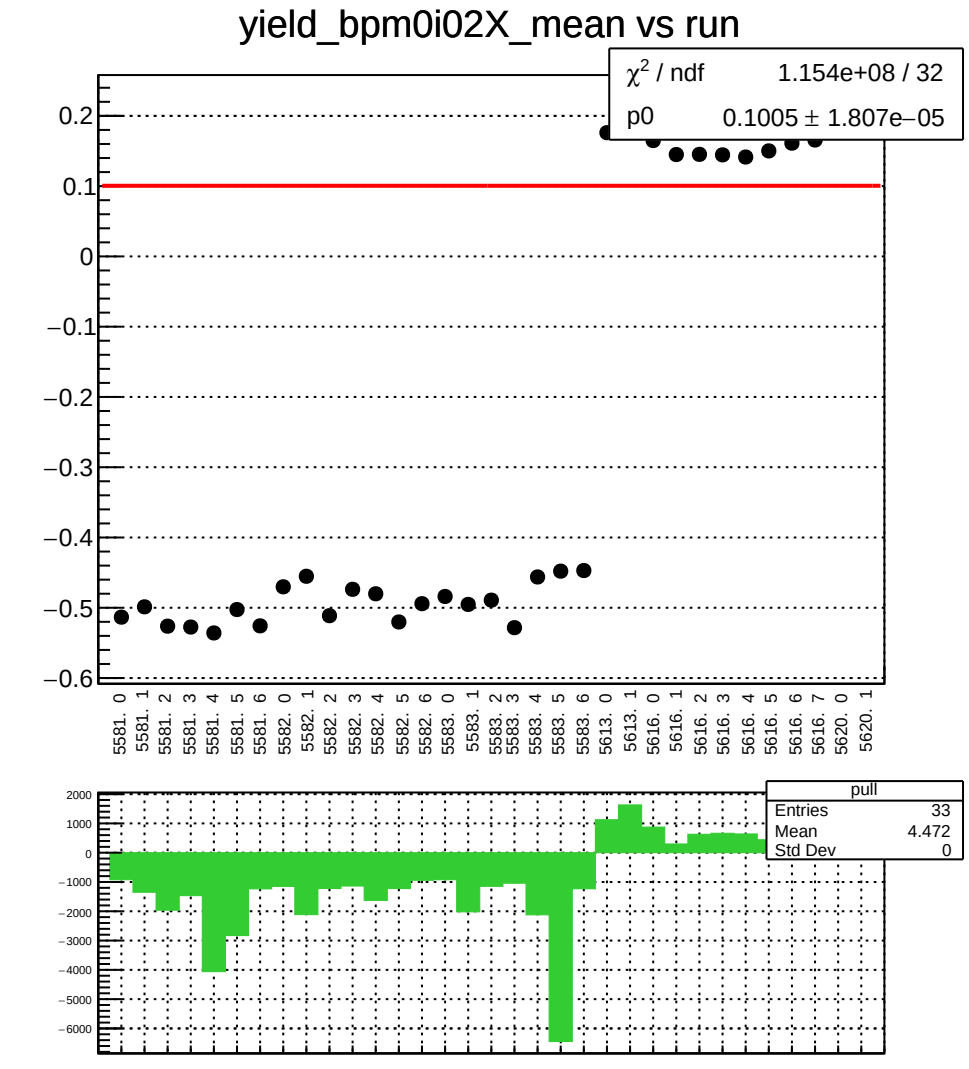

yield_bpm12Y_rms vs run
χ² / ndf 7.824e+04 / 32
p0 0.01622 ± 2.141e−05
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

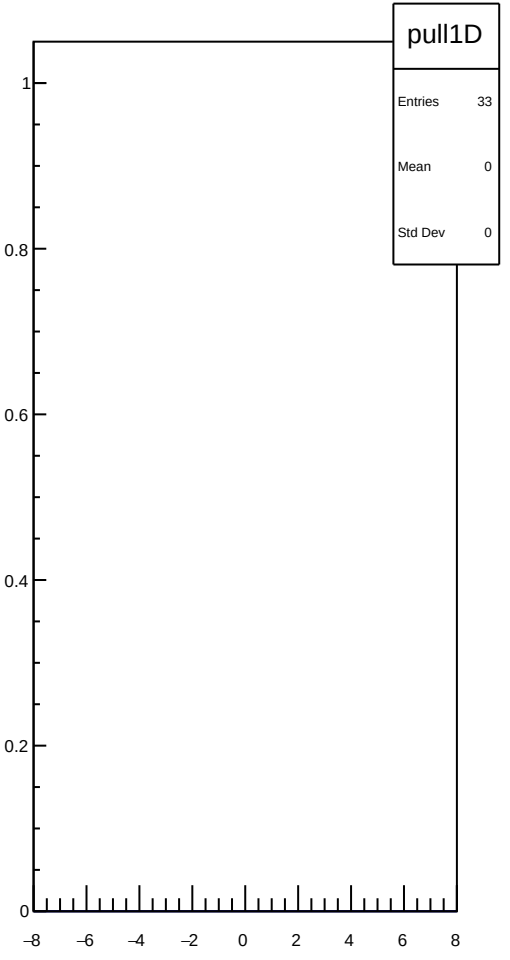

yield_bpm16X_mean vs run
χ² / ndf 8.763e+04 / 32
p0 0.09187 ± 9.069e−05
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 46.61
Std Dev 0
200
150
100
50
0
−50
pull1D
Entries 33
Mean −0.4612
Std Dev 5.429
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

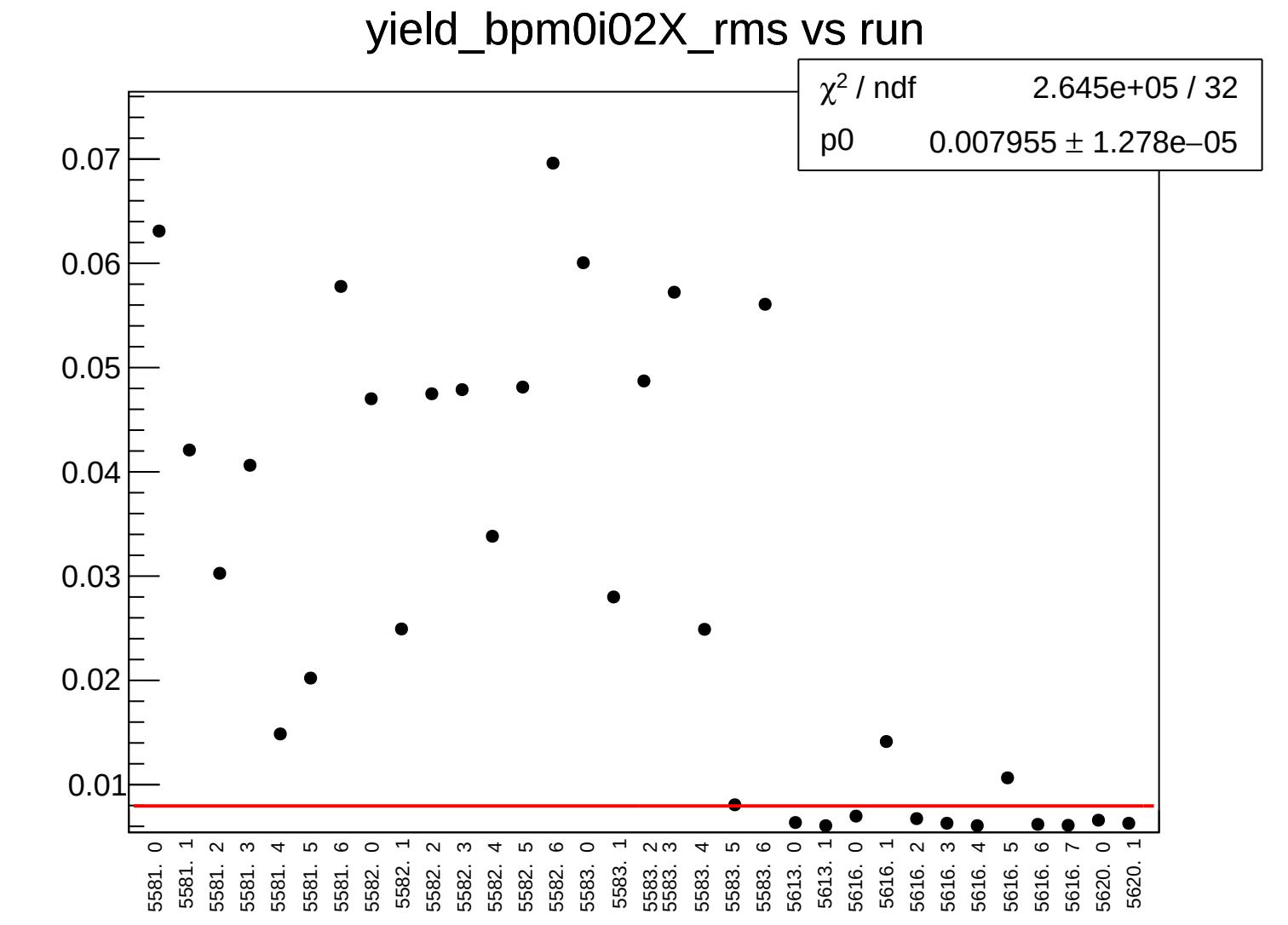

yield_bpm16X_rms vs run
χ² / ndf 1.375e+05 / 32
p0 0.046 ± 6.413e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

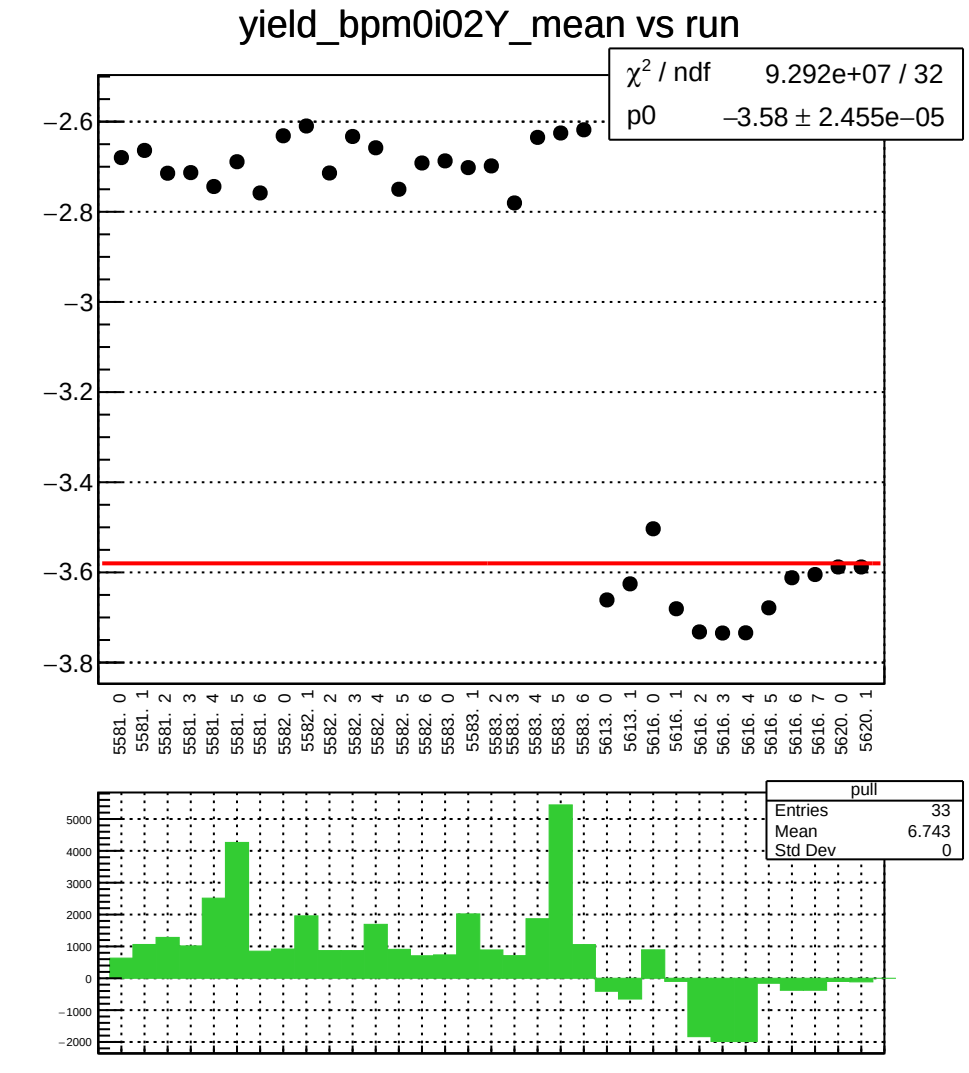

yield_bpm16Y_mean vs run
χ² / ndf 1.405e+07 / 32
p0 −0.2199 ± 1.133e−05
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 48.34
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

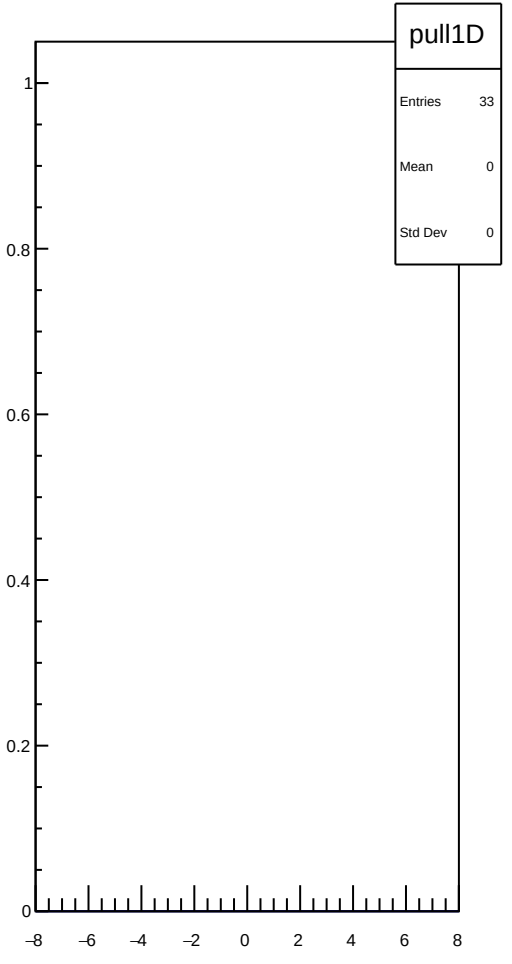

yield_bpm16Y_rms vs run
χ² / ndf 1.169e+05 / 32
p0 0.005859 ± 8.01e−06
0.025
0.02
0.015
0.01
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

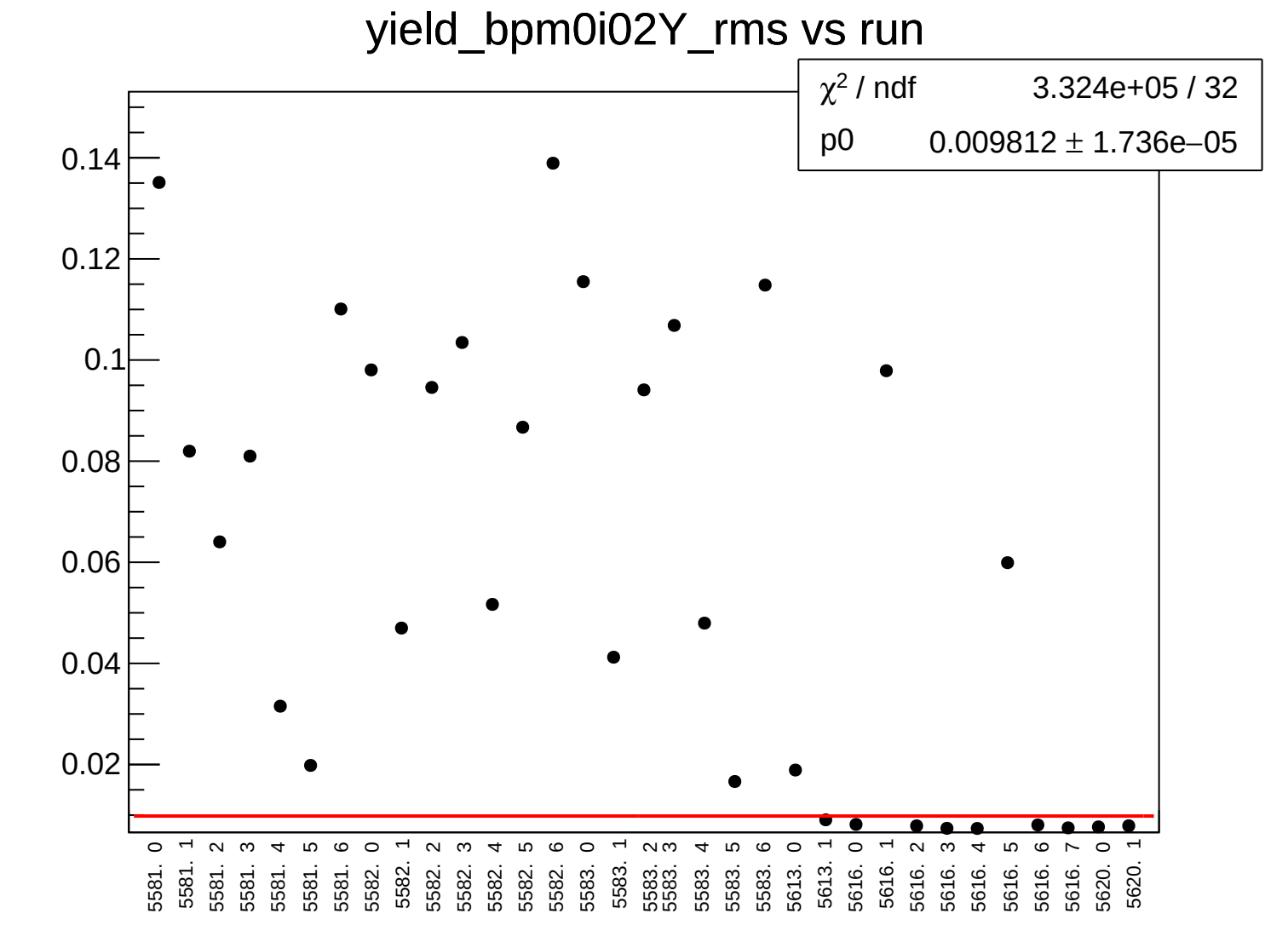

yield_bpm0i02X_mean vs run
χ² / ndf 1.154e+08 / 32
p0 0.1005 ± 1.807e−05
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
pull
Entries 33
Mean 4.472
Std Dev 0

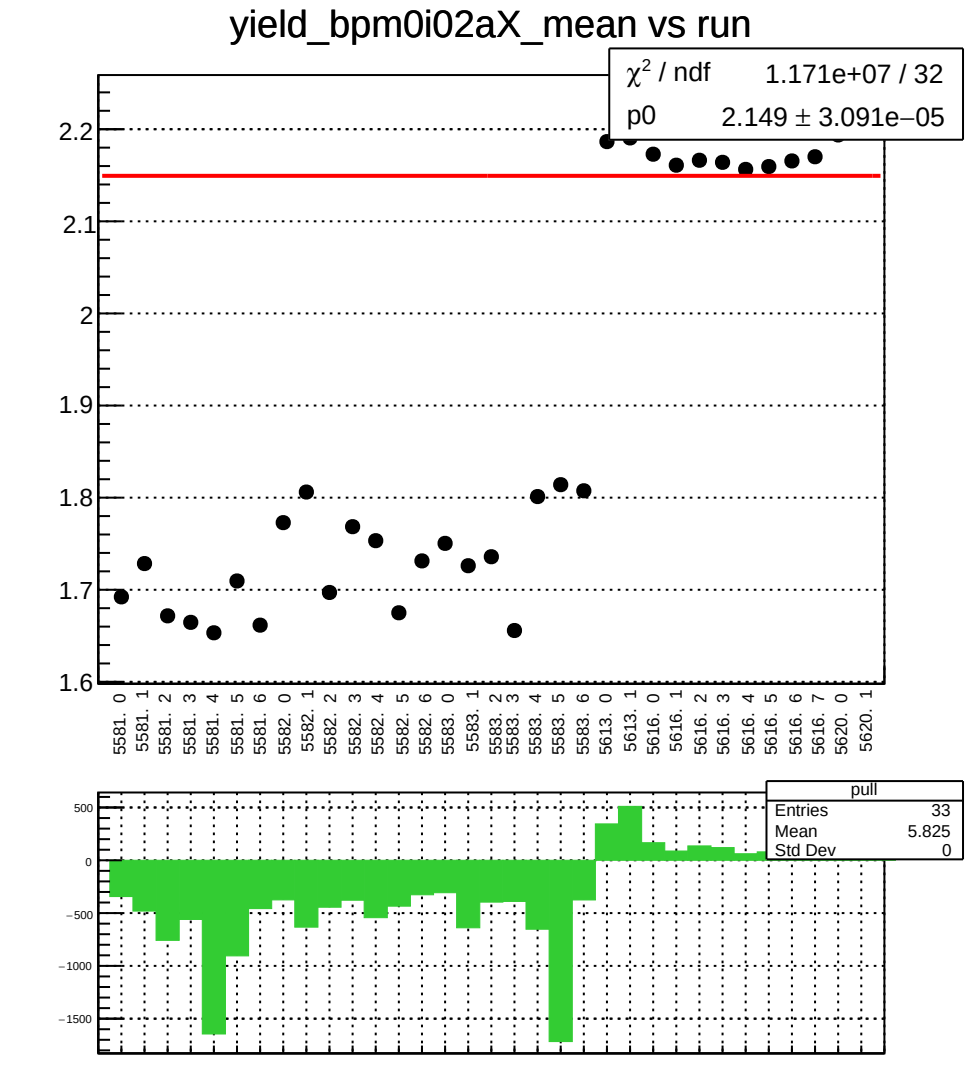

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

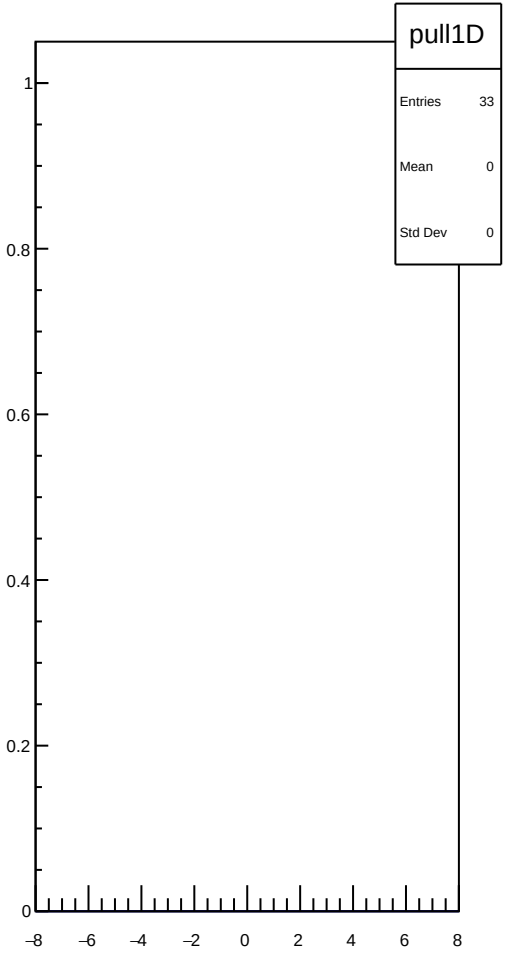

yield_bpm0i02X_rms vs run
χ² / ndf 2.645e+05 / 32
p0 0.007955 ± 1.278e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

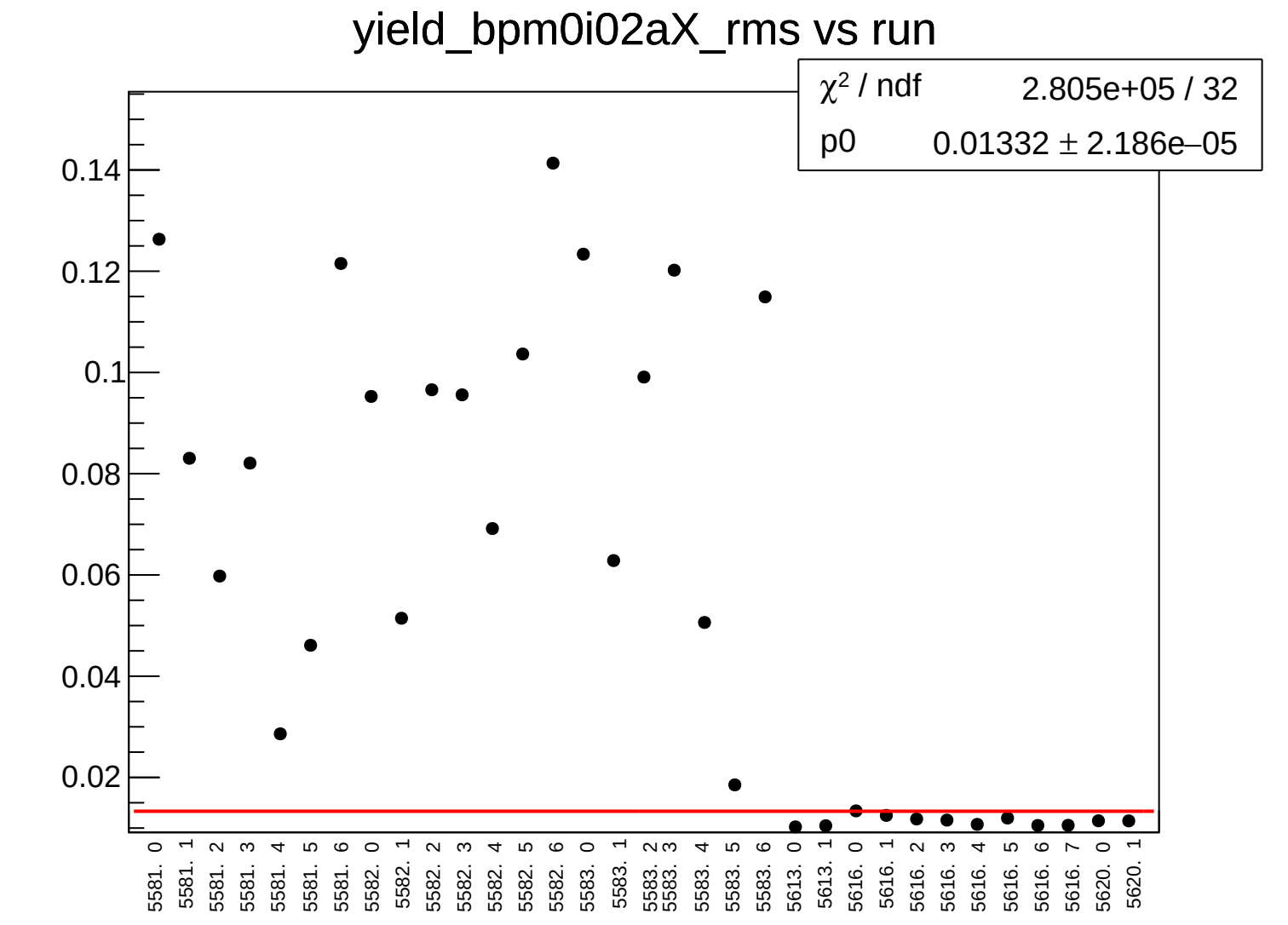

yield_bpm0i02Y_mean vs run
χ² / ndf 9.292e+07 / 32
p0 −3.58 ± 2.455e−05
−2.6
−2.8
−3
−3.2
−3.4
−3.6
−3.8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 6.743
Std Dev 0
5000
4000
3000
2000
1000
0
−1000
−2000

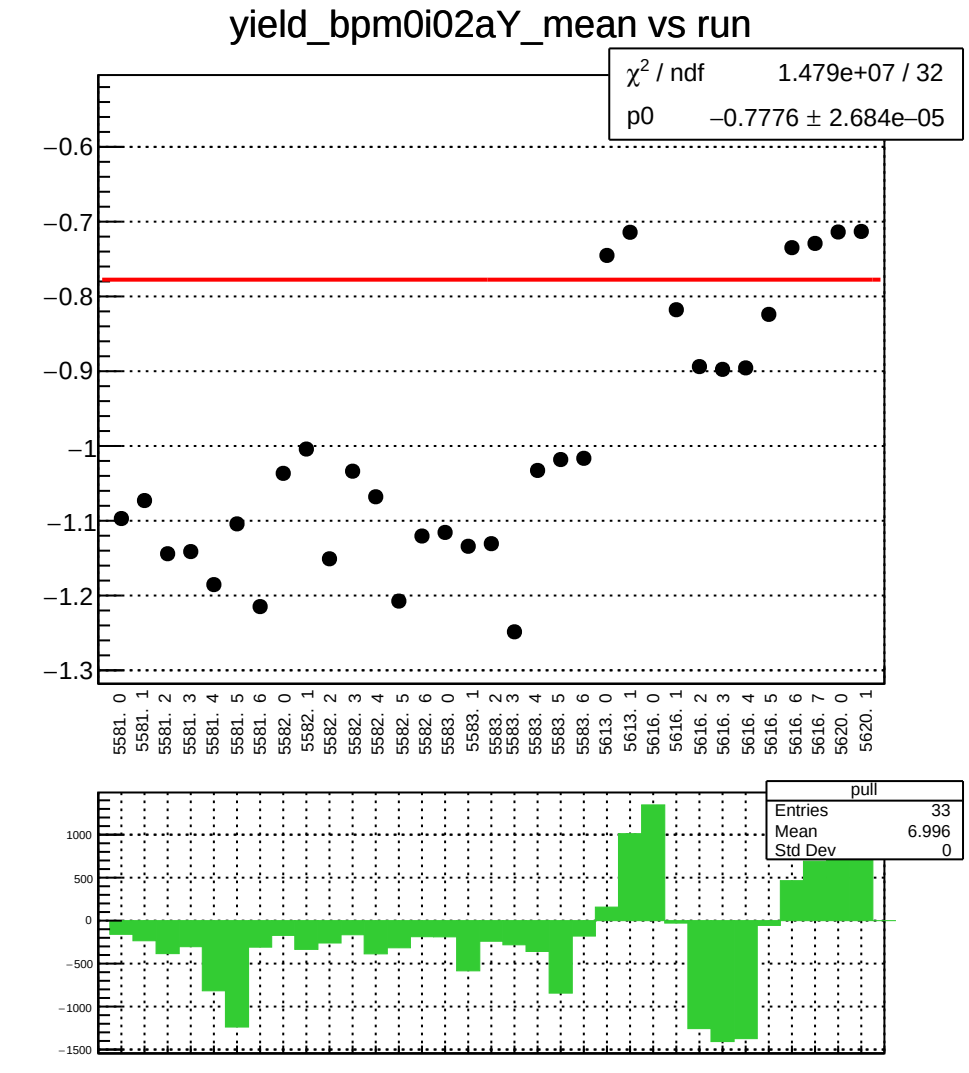

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

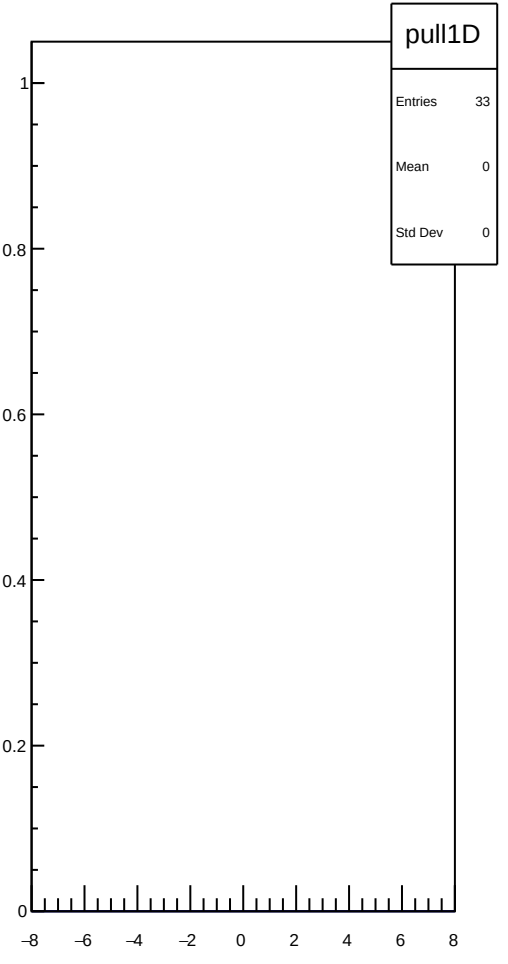

yield_bpm0i02Y_rms vs run
χ² / ndf 3.324e+05 / 32
p0 0.009812 ± 1.736e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

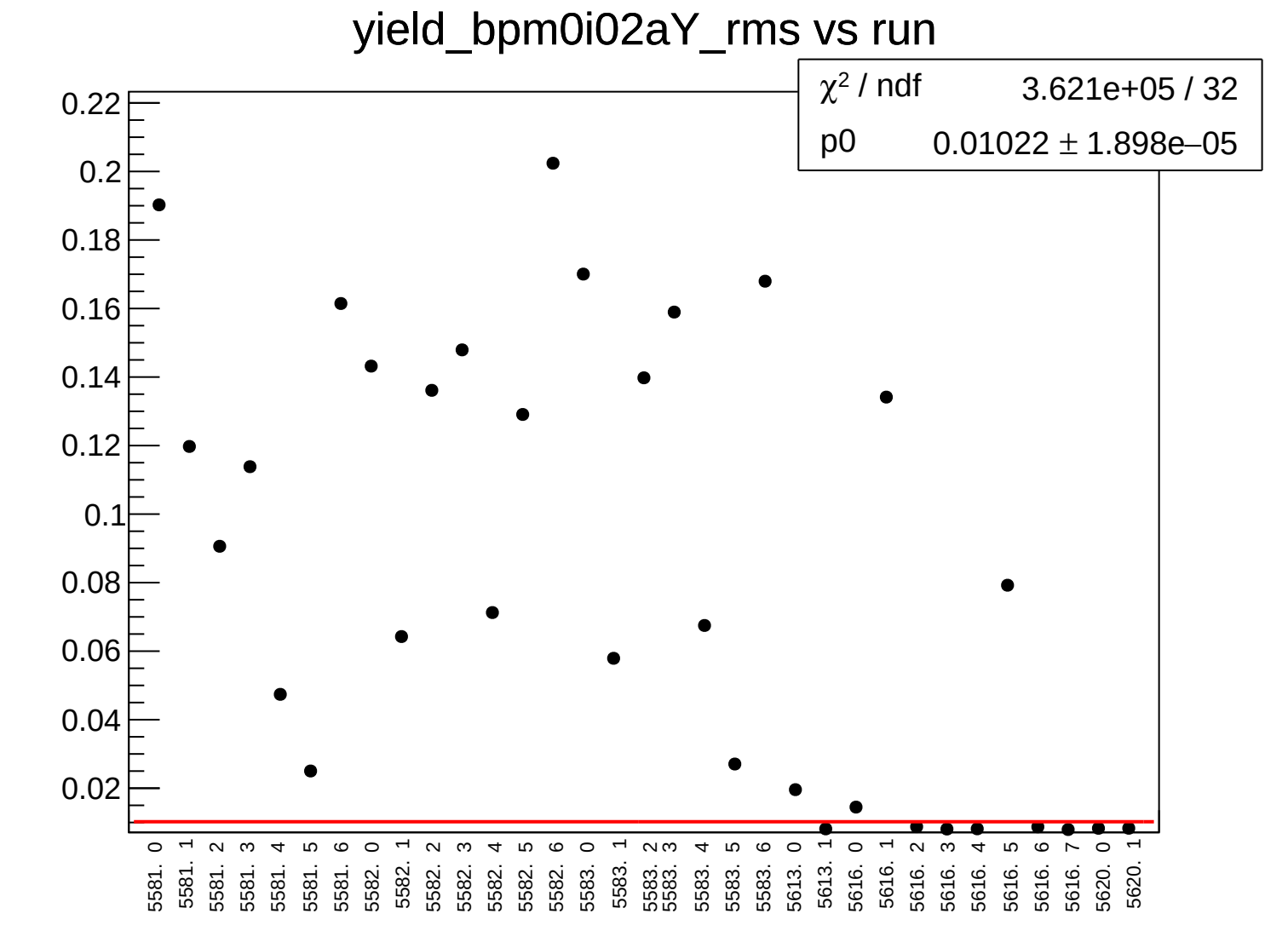

yield_bpm0i02aX_mean vs run
χ² / ndf 1.171e+07 / 32
p0 2.149 ± 3.091e−05
2.2
2.1
2
1.9
1.8
1.7
1.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5.825
Std Dev 0
500
0
−500
−1000
−1500

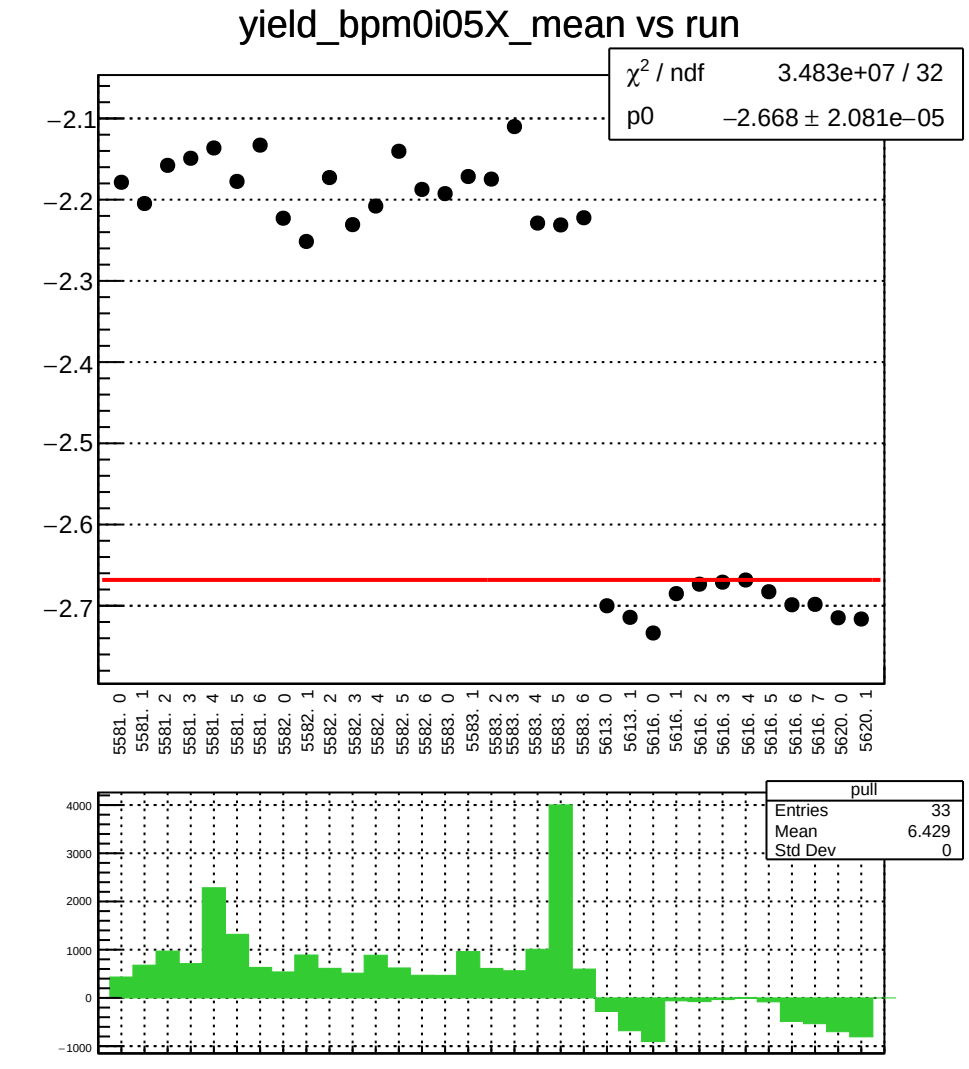

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

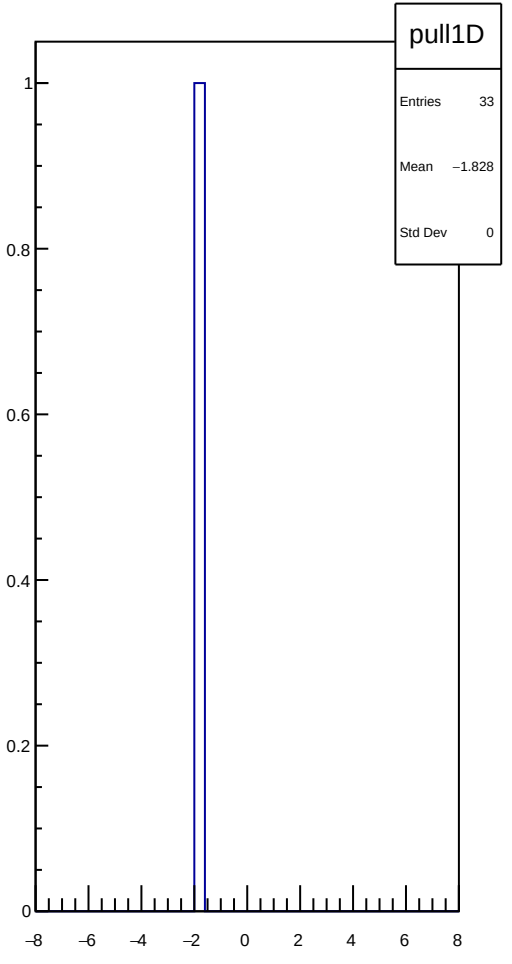

yield_bpm0i02aX_rms vs run
χ² / ndf 2.805e+05 / 32
p0 0.01332 ± 2.186e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

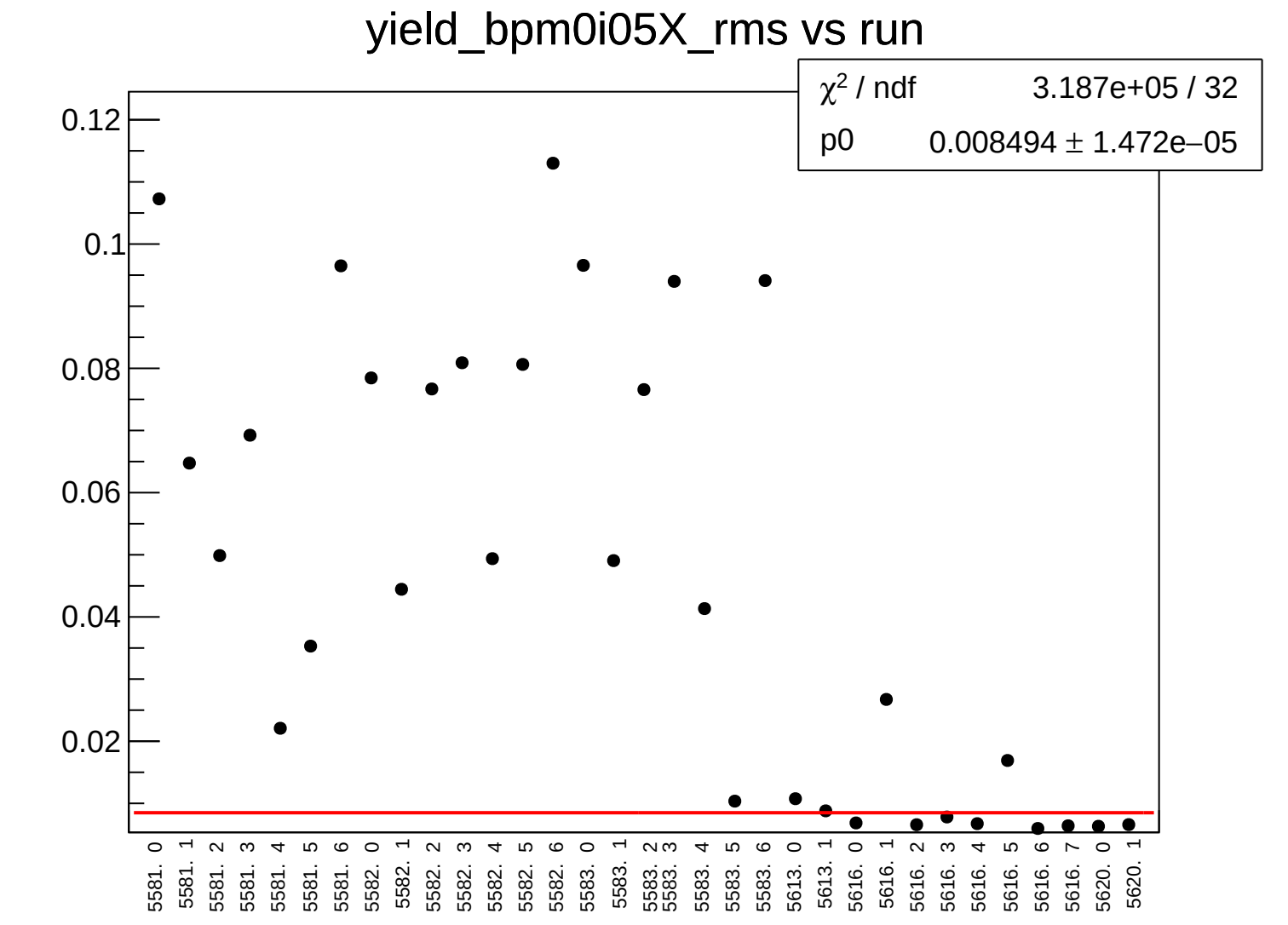

yield_bpm0i02aY_mean vs run
χ² / ndf 1.479e+07 / 32
p0 −0.7776 ± 2.684e−05
−0.6
−0.7
−0.8
−0.9
−1
−1.1
−1.2
−1.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 6.996
Std Dev 0
1000
500
0
−500
−1000
−1500

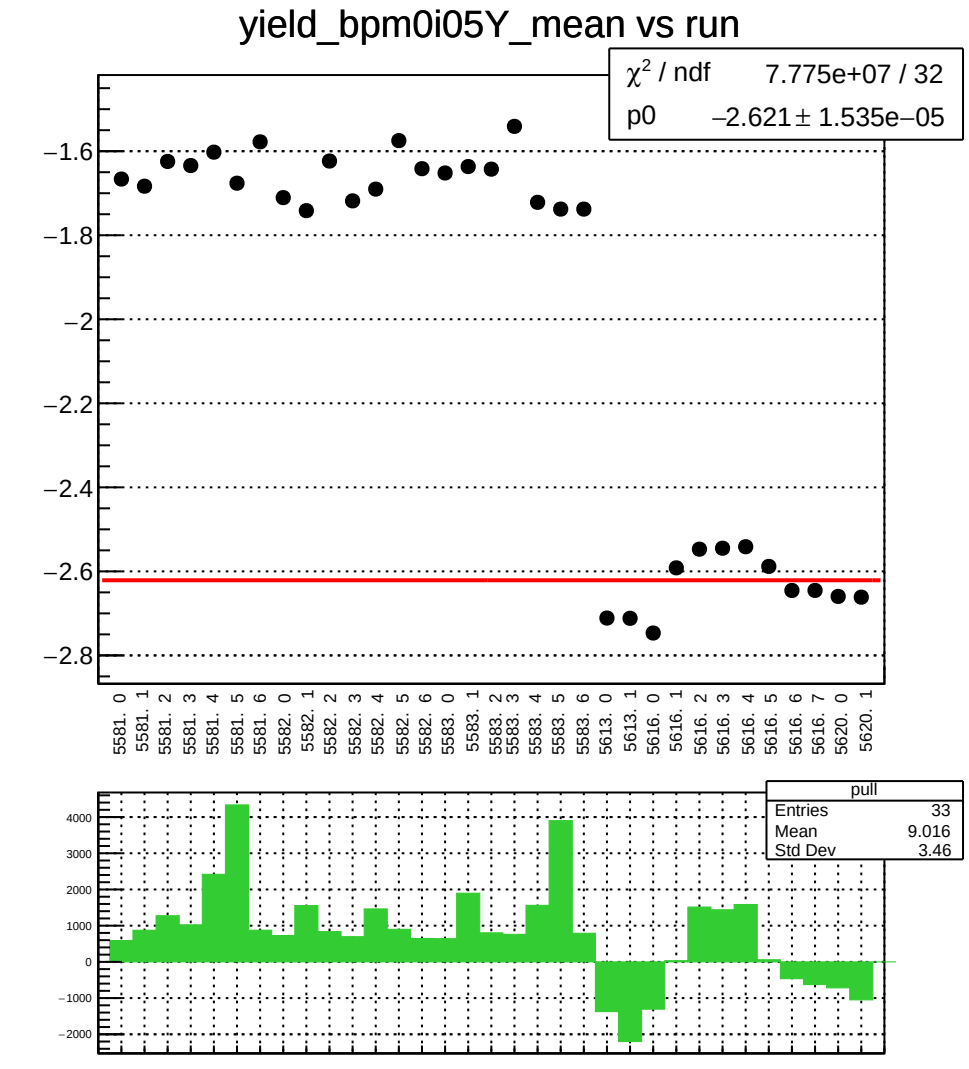

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

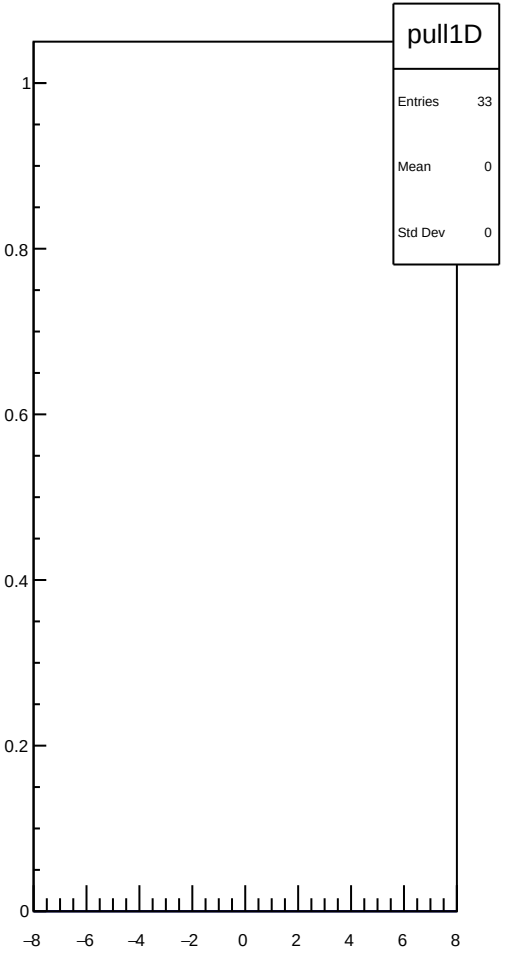

yield_bpm0i02aY_rms vs run
χ² / ndf 3.621e+05 / 32
p0 0.01022 ± 1.898e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

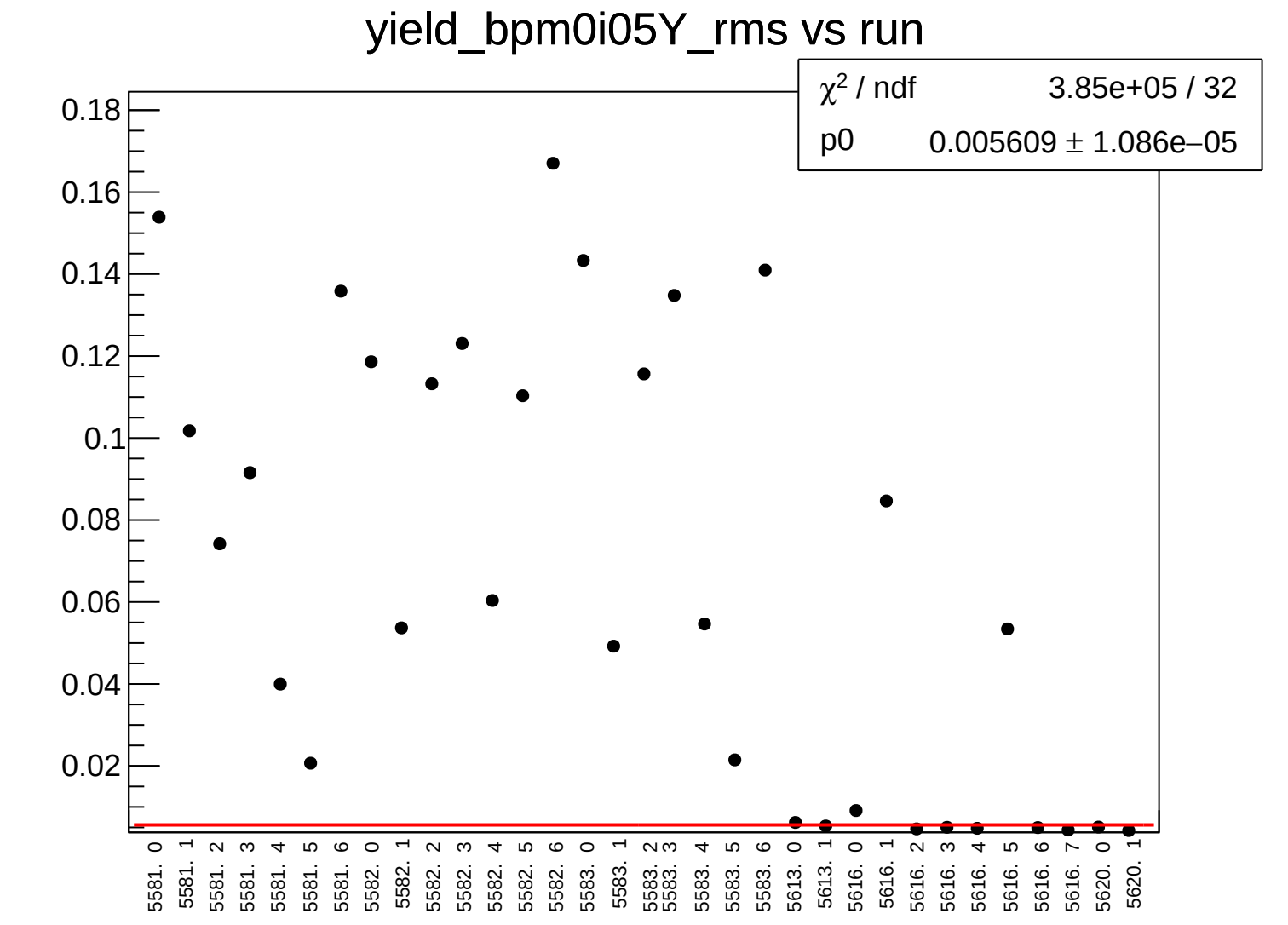

yield_bpm0i05X_mean vs run
χ² / ndf 3.483e+07 / 32
p0 −2.668 ± 2.081e−05
−2.1
−2.2
−2.3
−2.4
−2.5
−2.6
−2.7
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 6.429
Std Dev 0
4000
3000
2000
1000
0
−1000

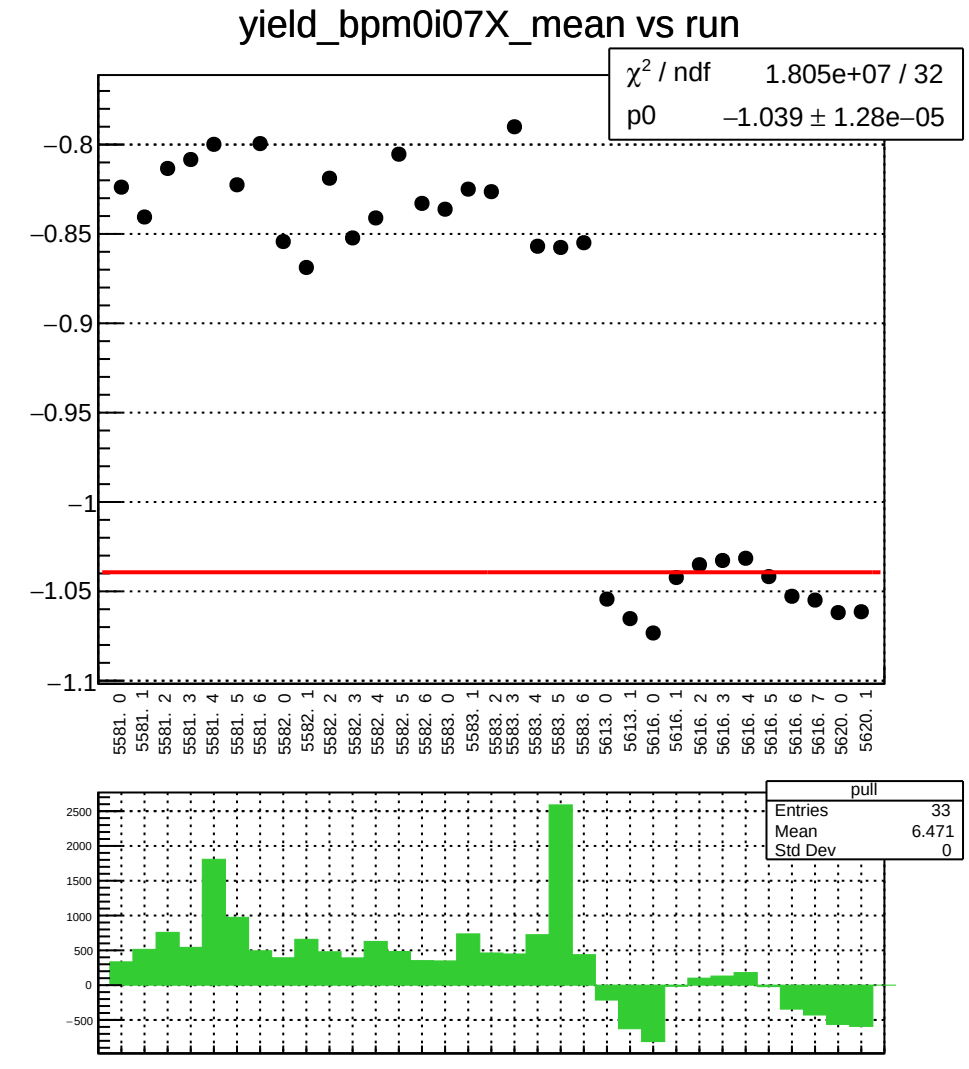

pull1D
Entries 33
Mean −1.828
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

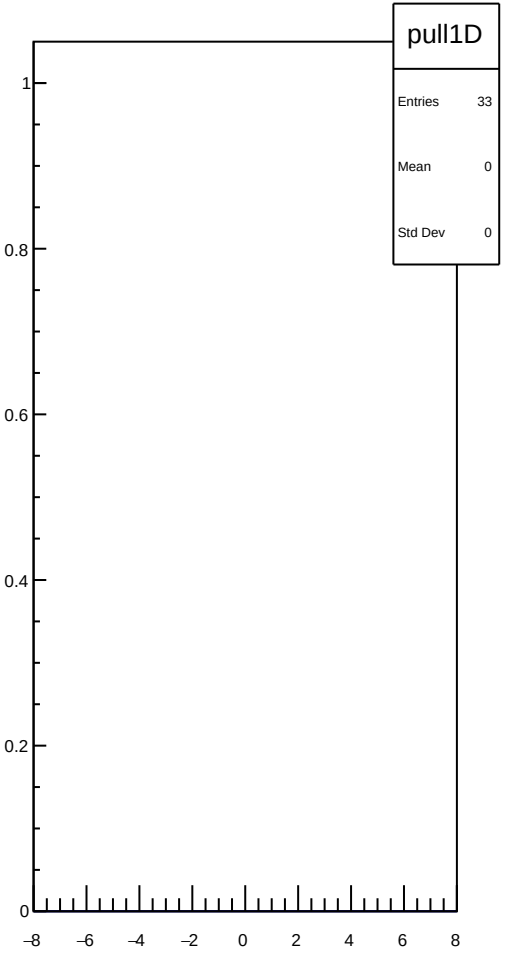

yield_bpm0i05X_rms vs run
χ² / ndf 3.187e+05 / 32
p0 0.008494 ± 1.472e−05
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

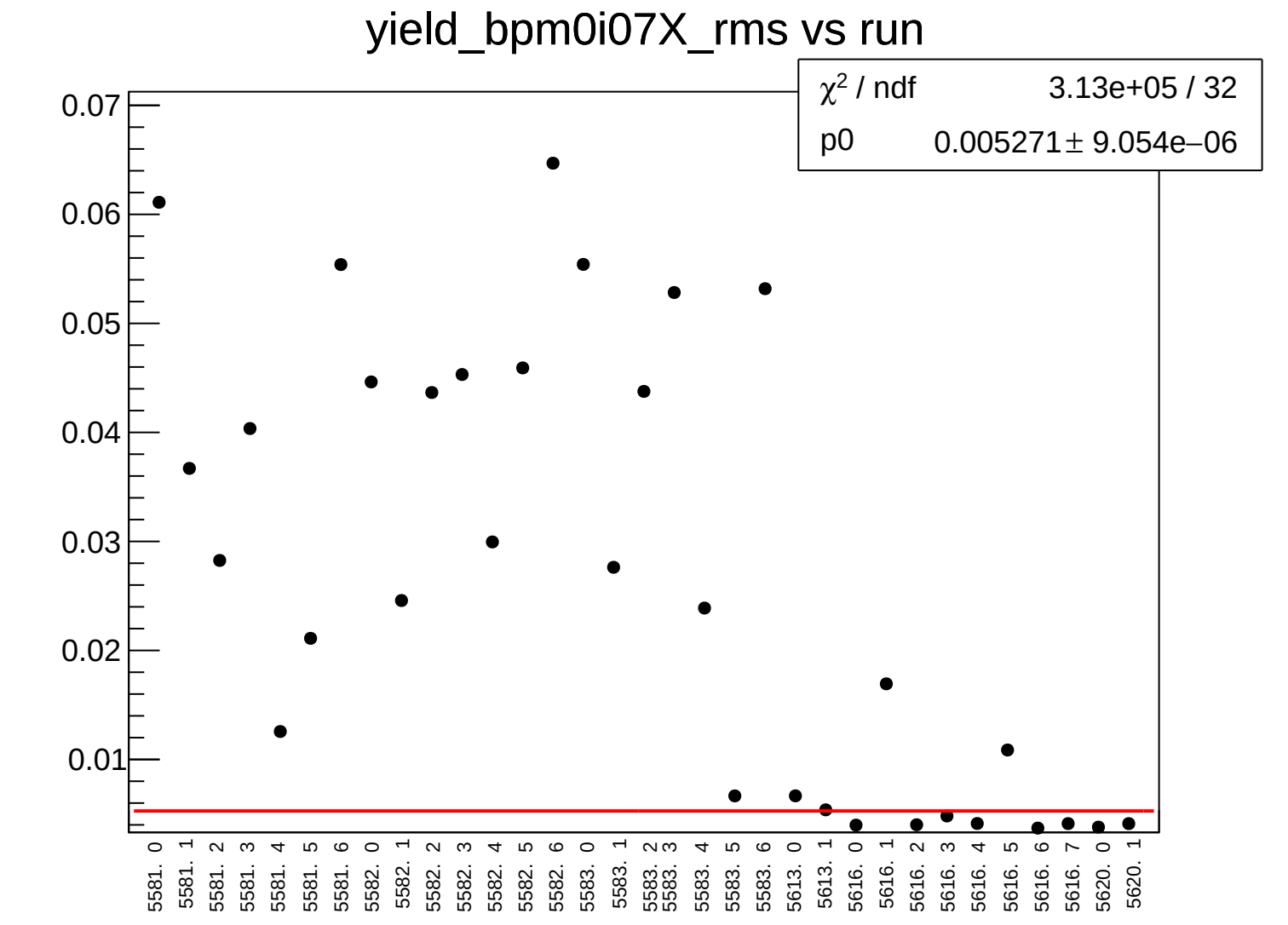

yield_bpm0i05Y_mean vs run
χ² / ndf 7.775e+07 / 32
p0 −2.621 ± 1.535e−05
−1.6
−1.8
−2
−2.2
−2.4
−2.6
−2.8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 9.016
Std Dev 3.46
4000
3000
2000
1000
0
−1000
−2000

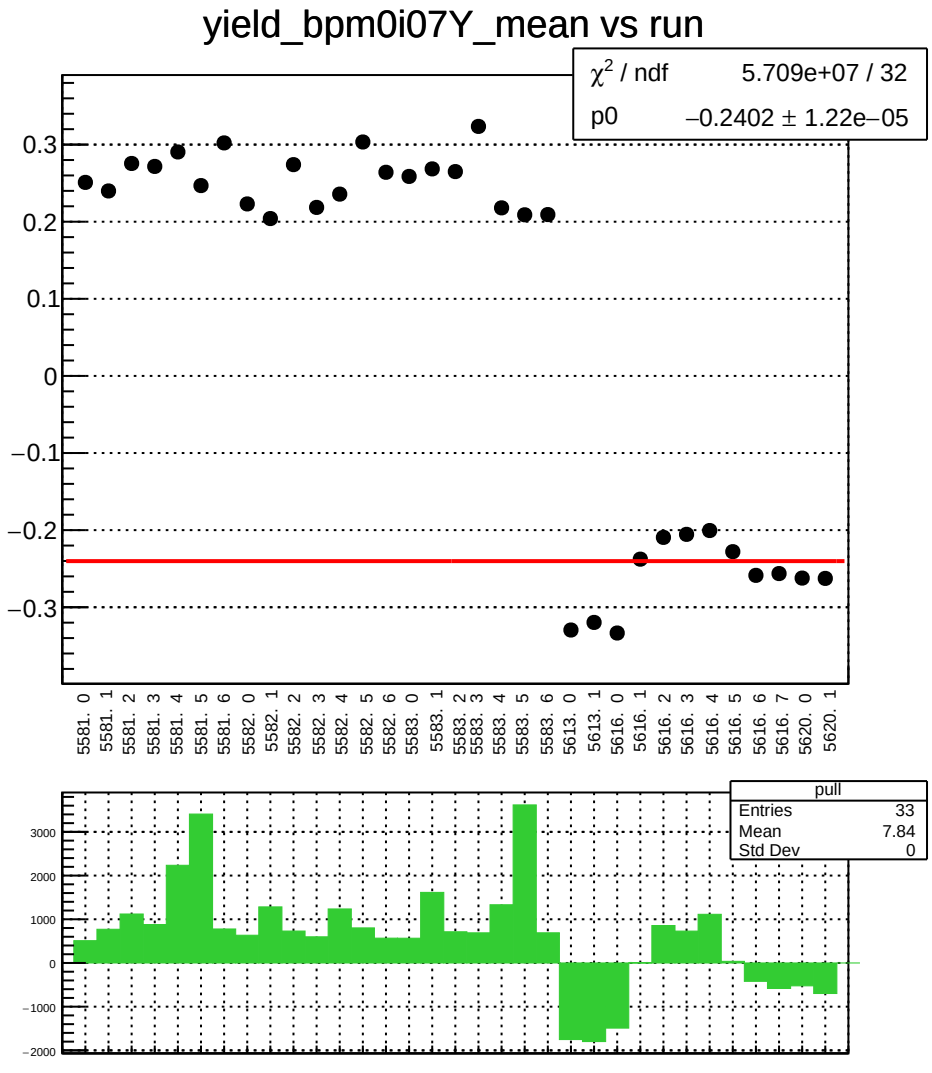

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

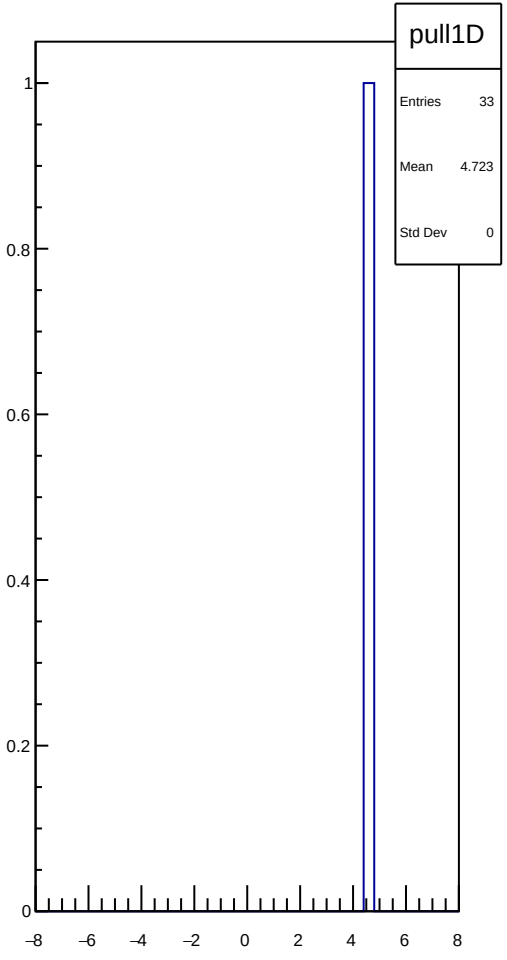

yield_bpm0i05Y_rms vs run
χ² / ndf 3.85e+05 / 32
p0 0.005609 ± 1.086e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

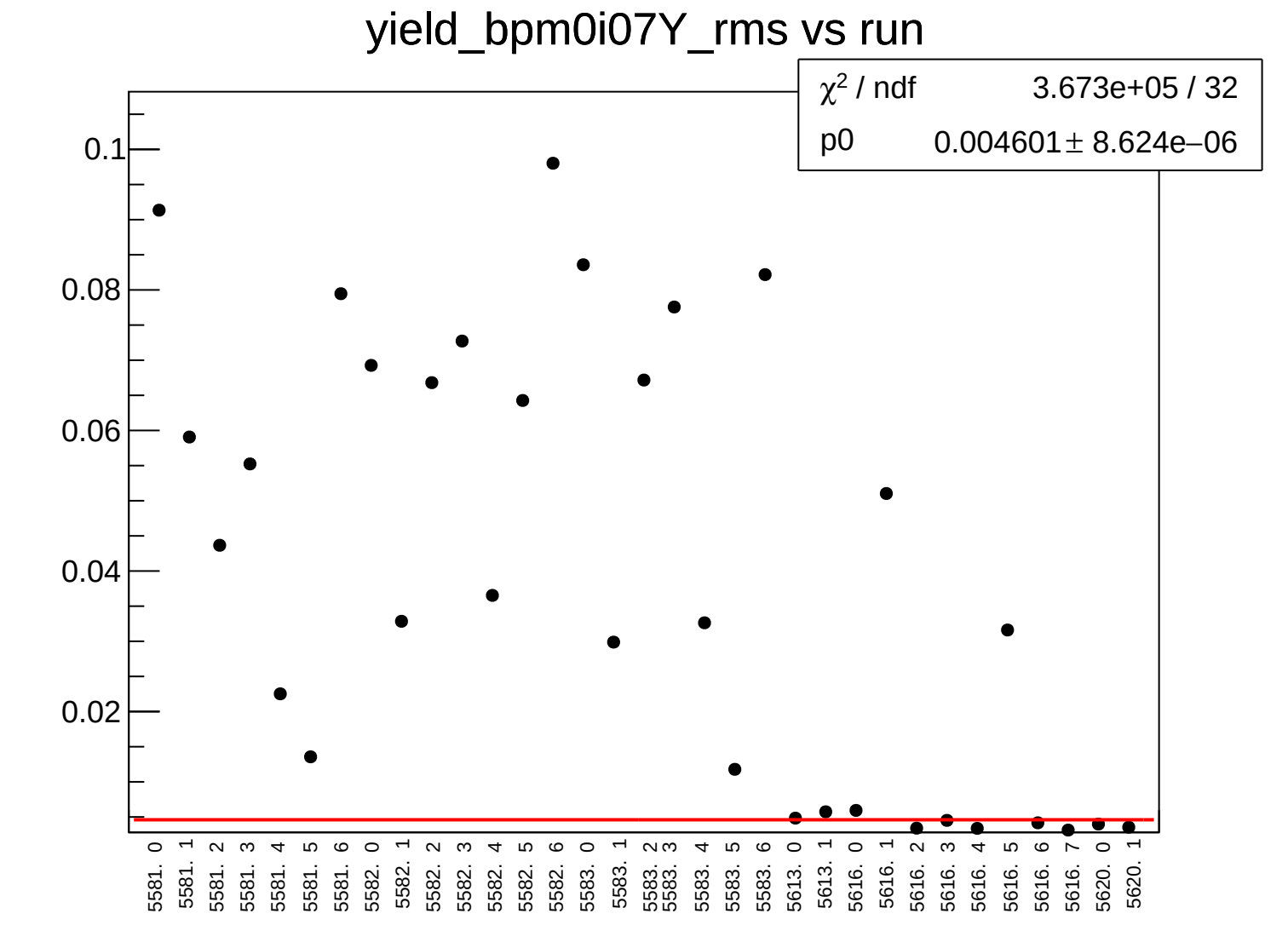

yield_bpm0i07X_mean vs run
χ² / ndf 1.805e+07 / 32
p0 −1.039 ± 1.28e−05
−0.8
−0.85
−0.9
−0.95
−1
−1.05
−1.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 6.471
Std Dev 0
2500
2000
1500
1000
500
0
−500

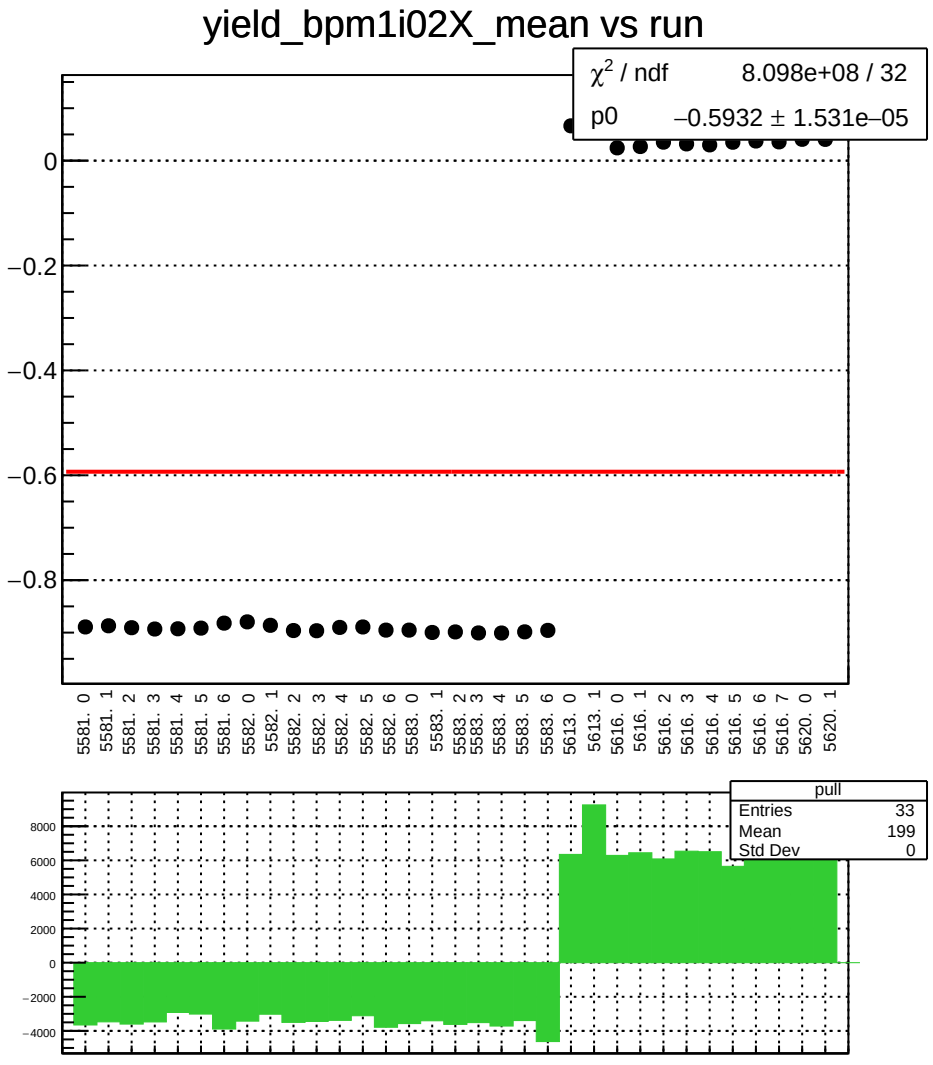

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

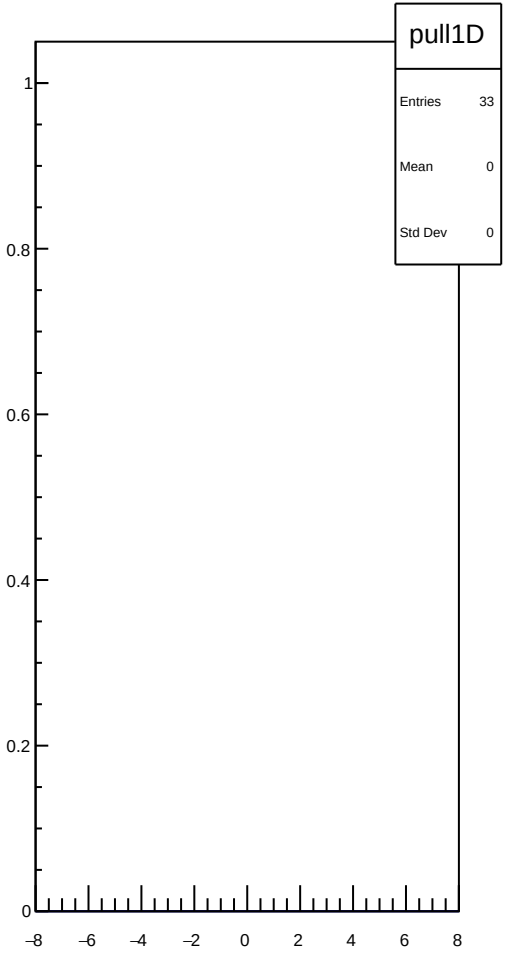

yield_bpm0i07X_rms vs run
χ² / ndf 3.13e+05 / 32
p0 0.005271 ± 9.054e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

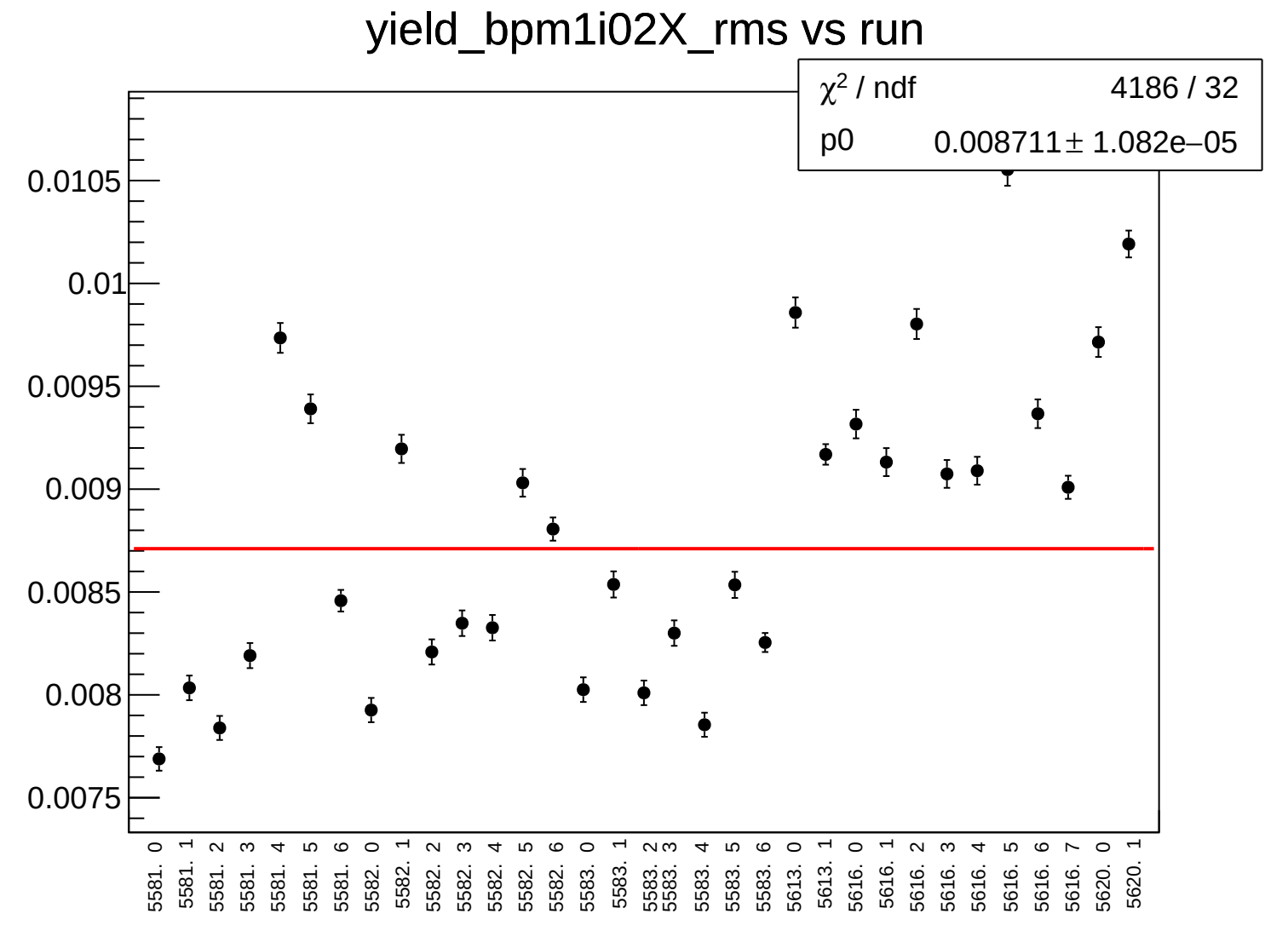

yield_bpm0i07Y_mean vs run
χ² / ndf 5.709e+07 / 32
p0 −0.2402 ± 1.22e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 7.84
Std Dev 0
3000
2000
1000
0
−1000
−2000

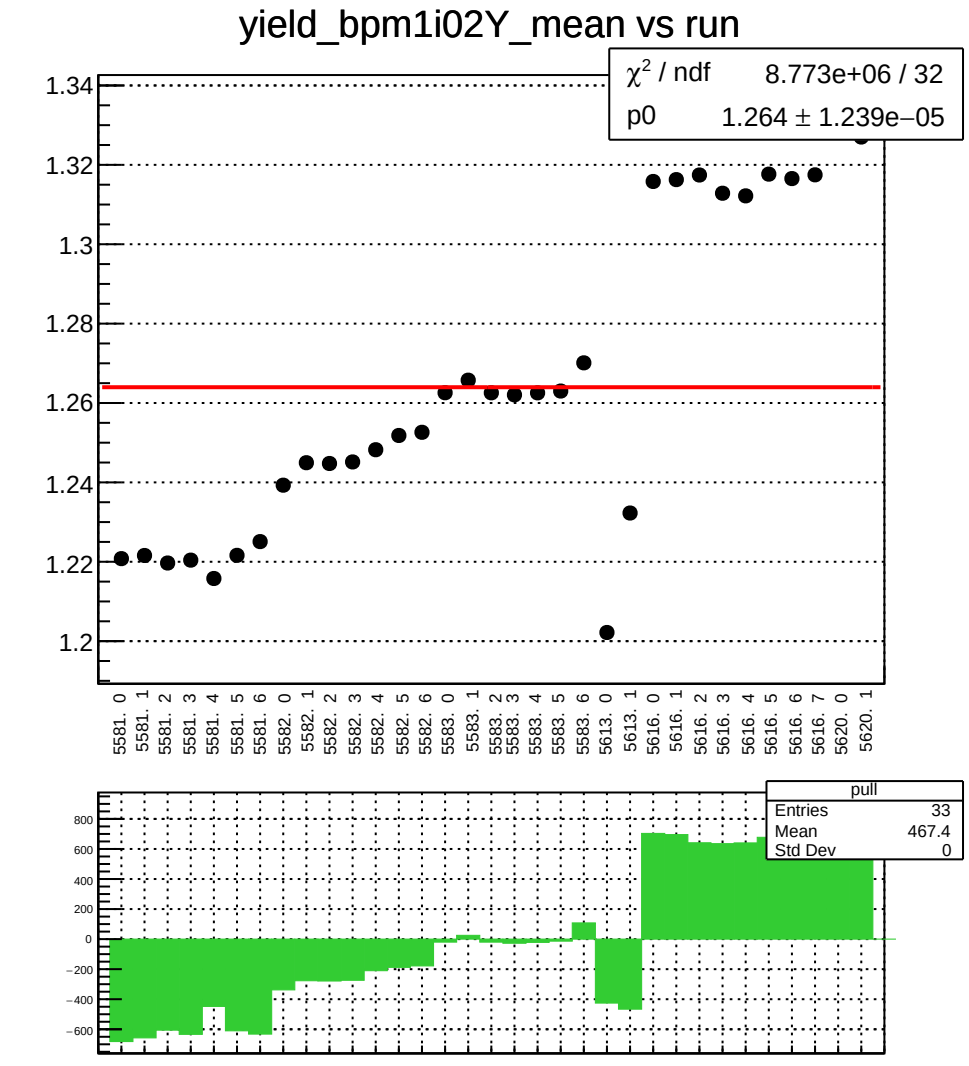

pull1D
Entries 33
Mean 4.723
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

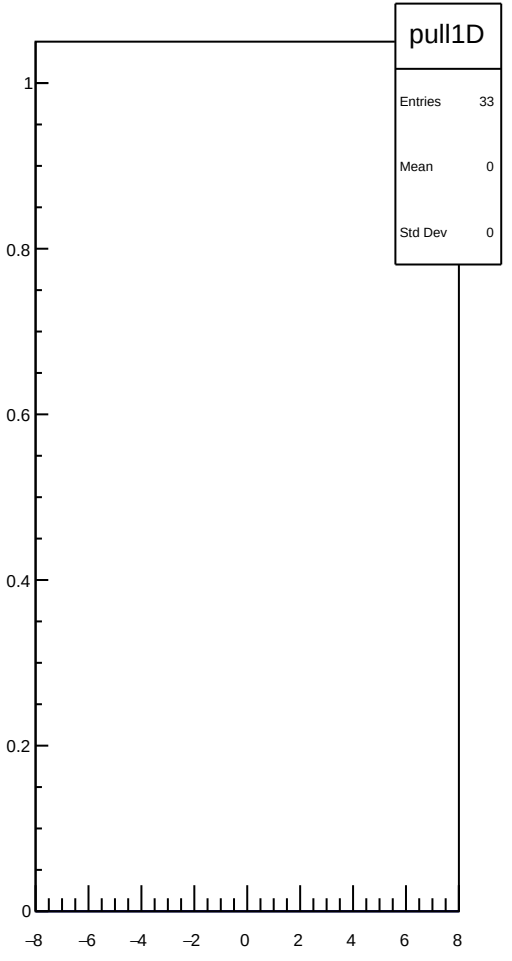

yield_bpm0i07Y_rms vs run
χ² / ndf 3.673e+05 / 32
p0 0.004601 ± 8.624e−06
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

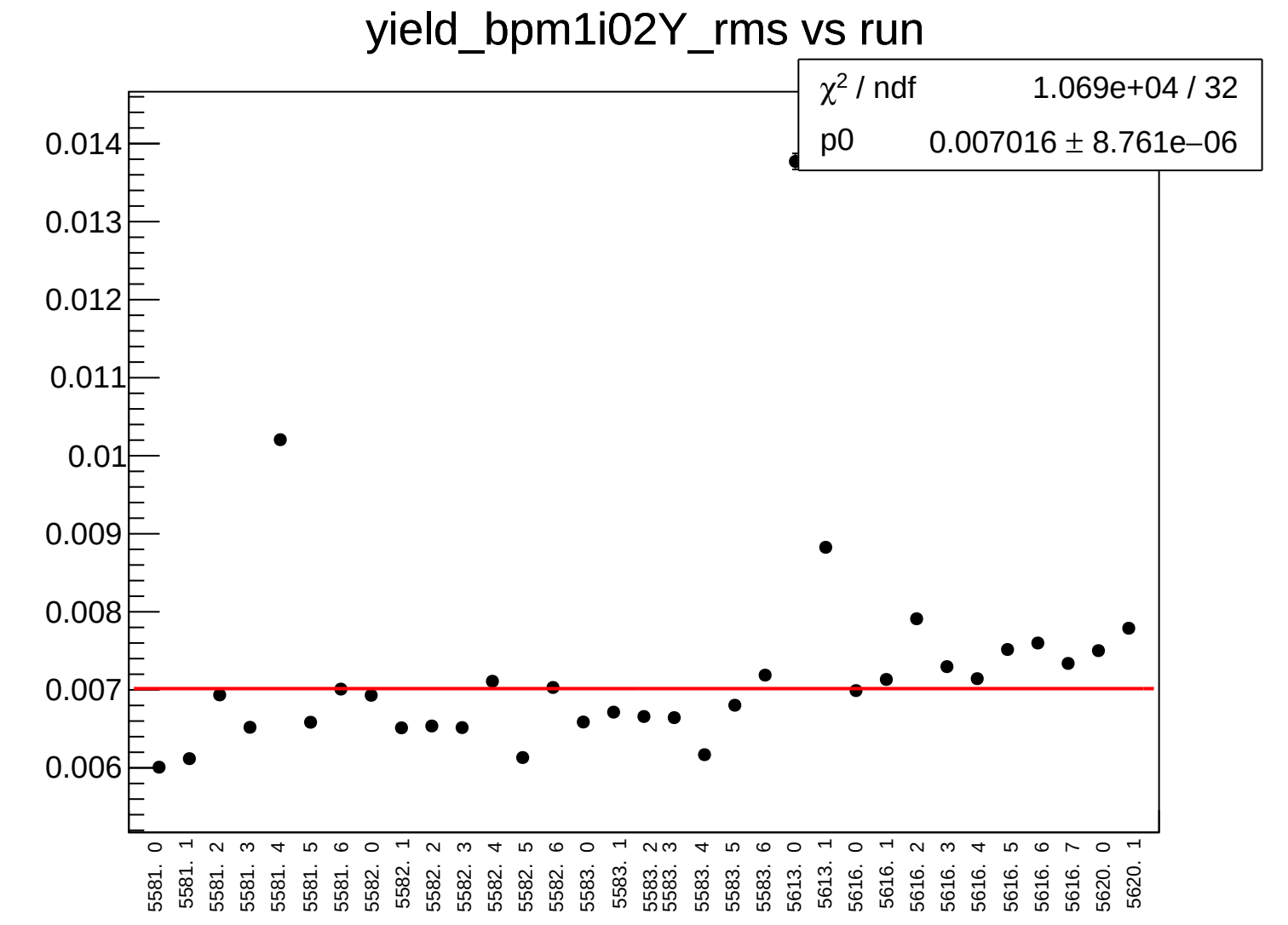

yield_bpm1i02X_mean vs run
χ² / ndf 8.098e+08 / 32
p0 −0.5932 ± 1.531e−05
0
−0.2
−0.4
−0.6
−0.8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 199
Std Dev 0
8000
6000
4000
2000
0
−2000
−4000

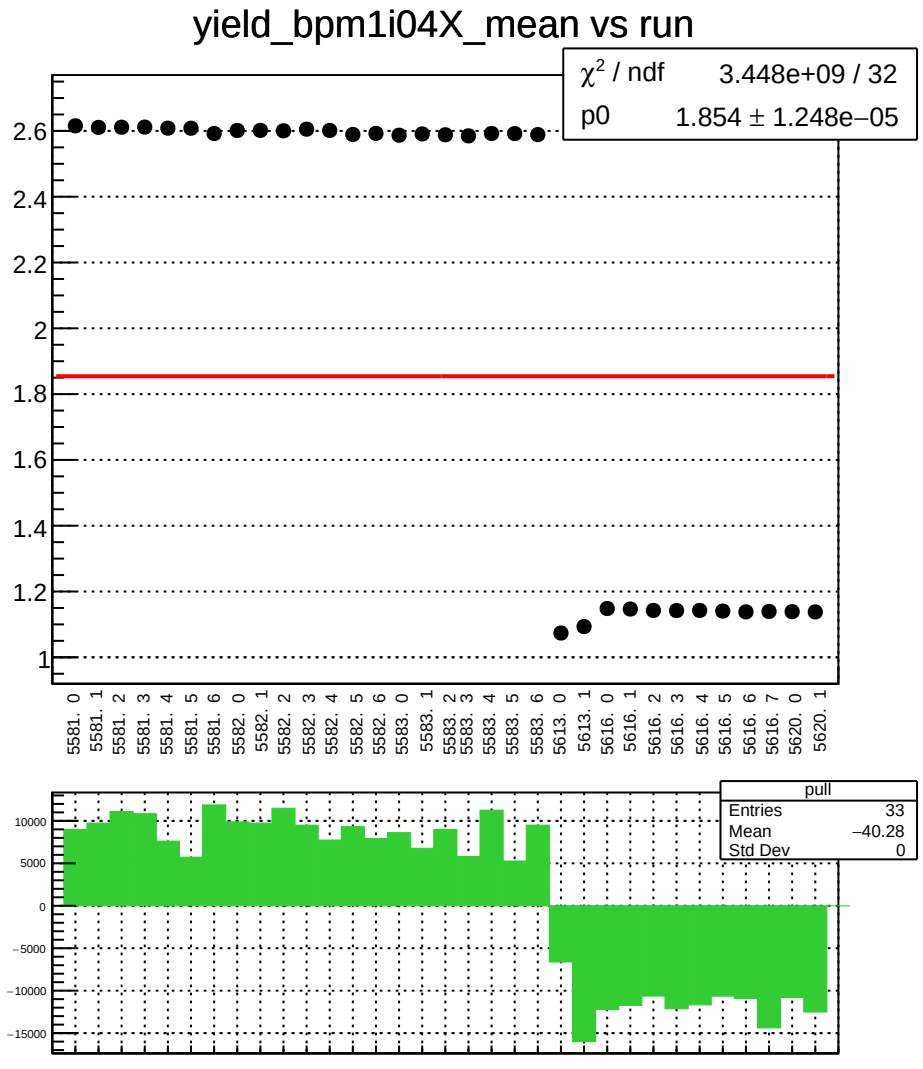

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

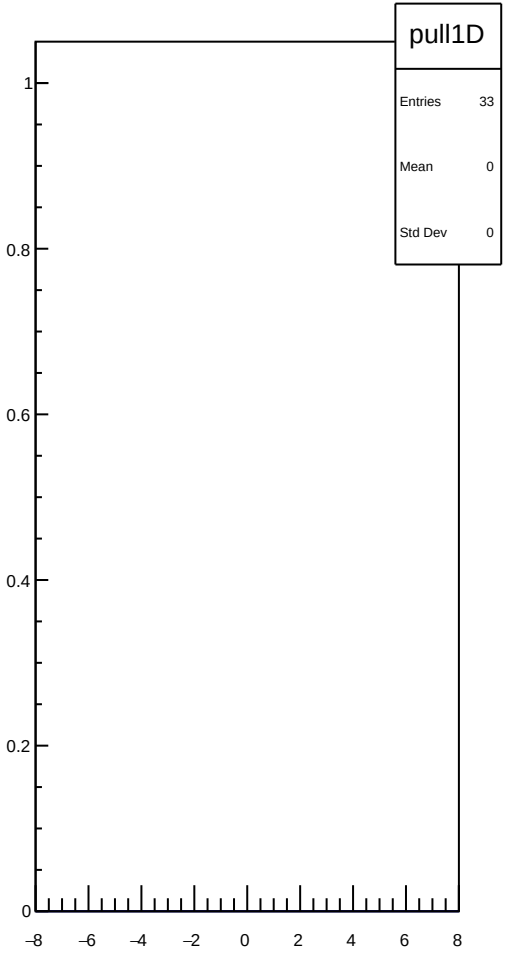

yield_bpm1i02X_rms vs run
χ² / ndf 4186 / 32
p0 0.008711 ± 1.082e−05
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

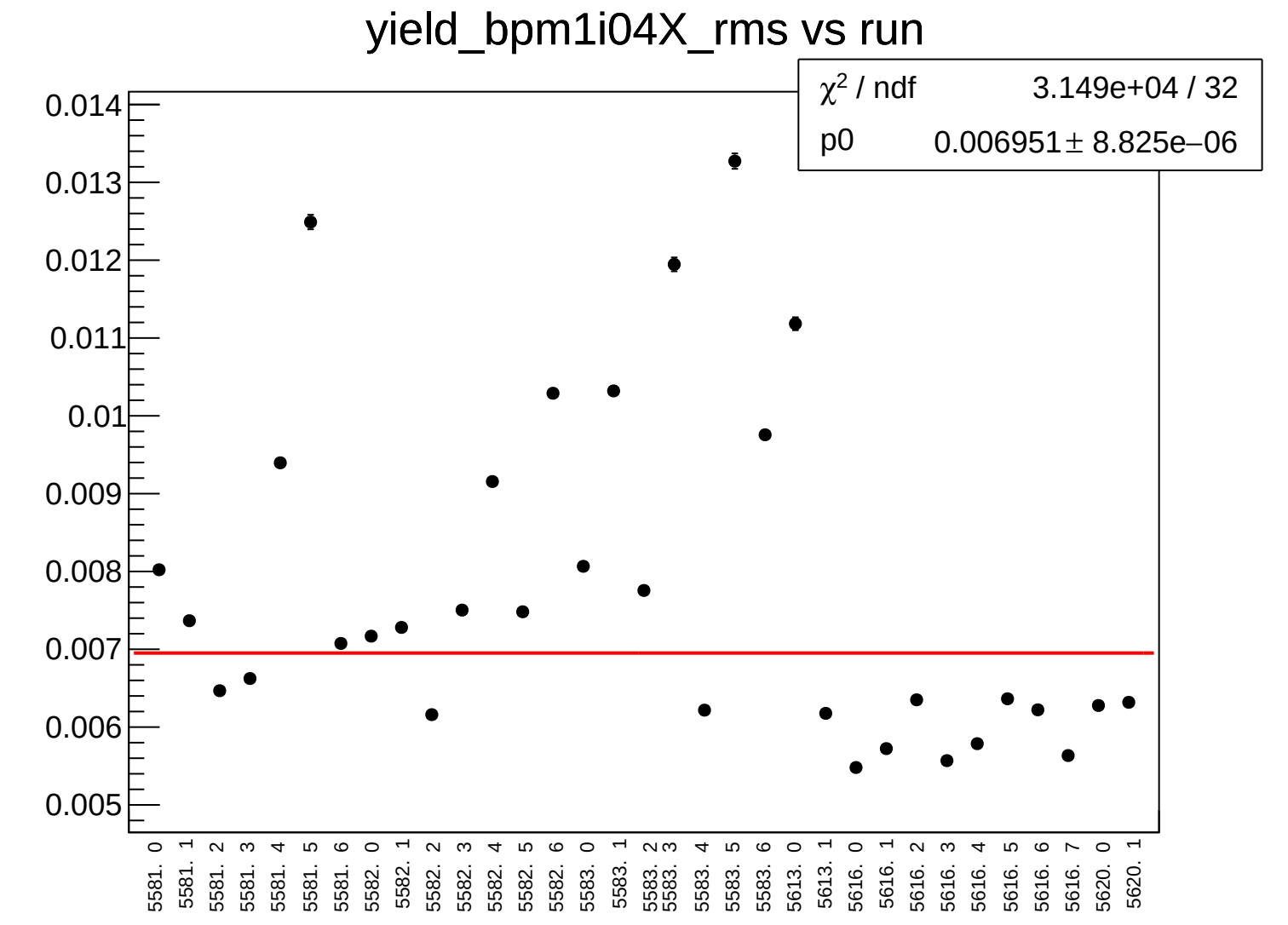

yield_bpm1i02Y_mean vs run
χ² / ndf 8.773e+06 / 32
p0 1.264 ± 1.239e−05
1.34
1.32
1.3
1.28
1.26
1.24
1.22
1.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 467.4
Std Dev 0
800
600
400
200
0
−200
−400
−600

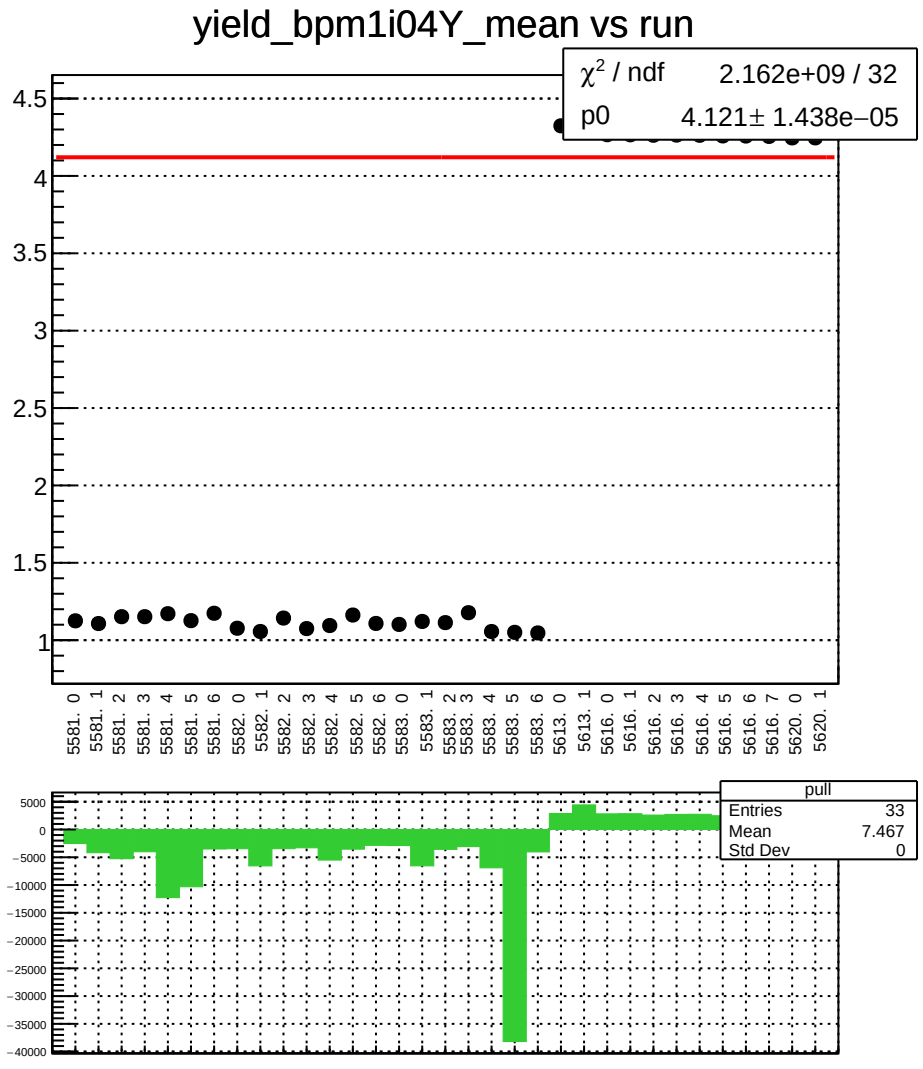

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

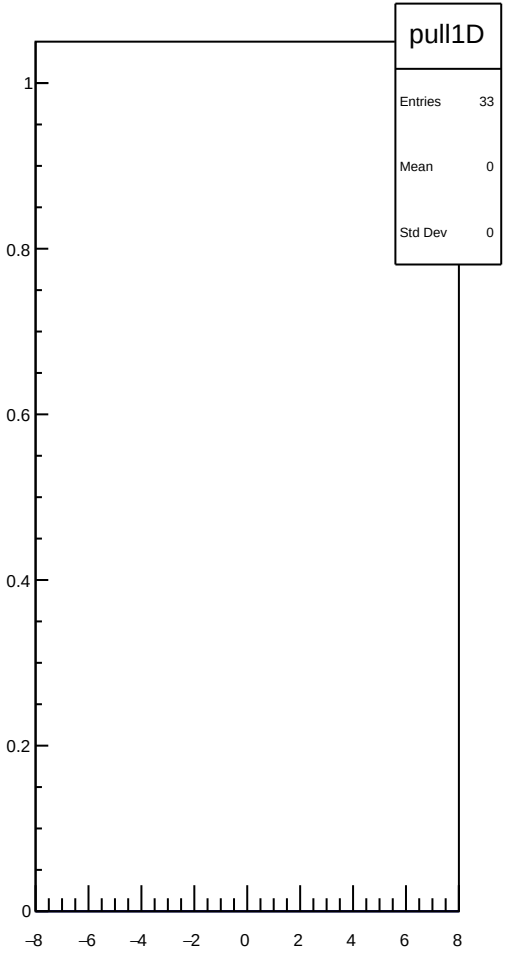

yield_bpm1i02Y_rms vs run
χ² / ndf 1.069e+04 / 32
p0 0.007016 ± 8.761e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

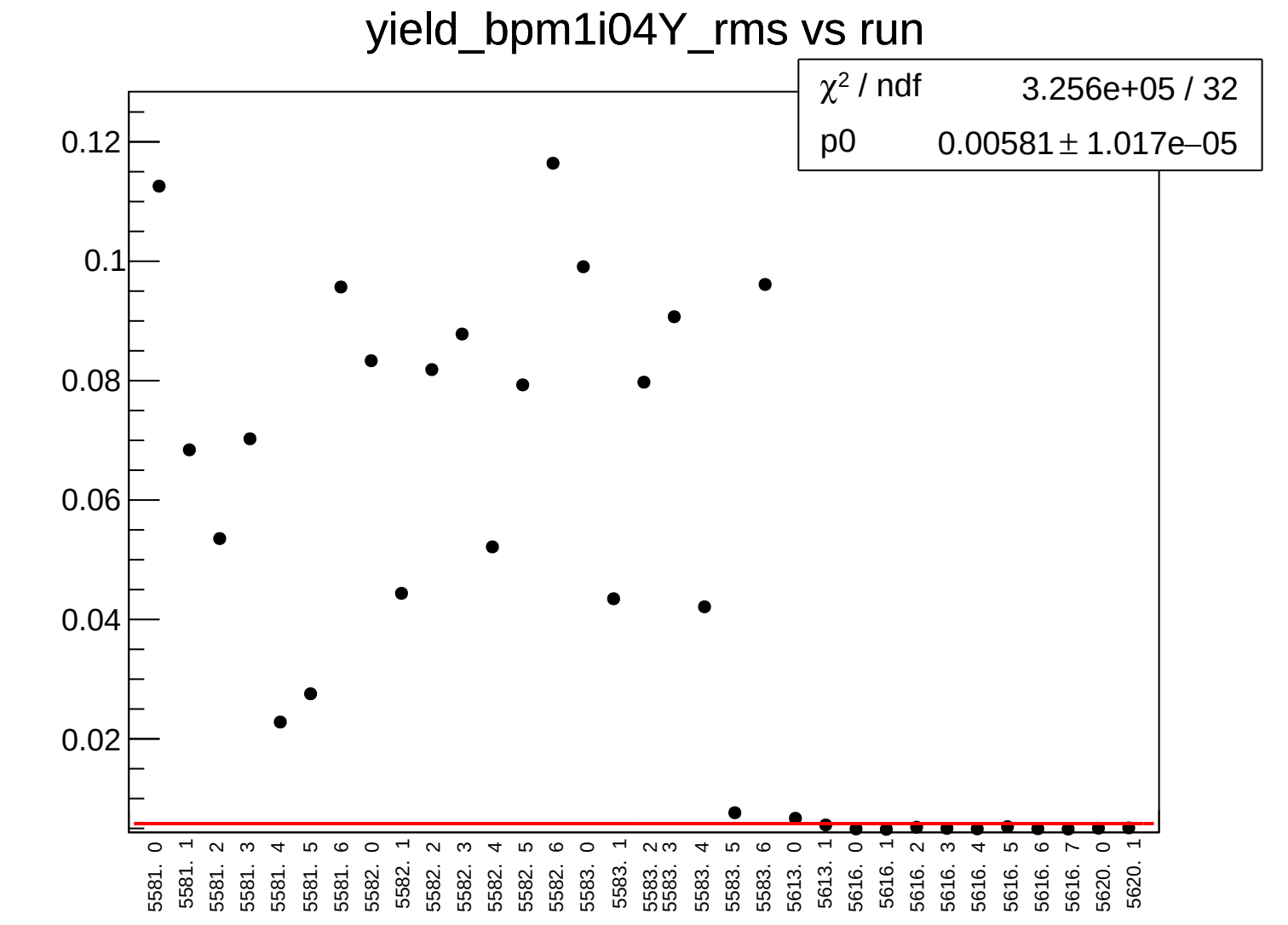

yield_bpm1i04X_mean vs run
χ² / ndf 3.448e+09 / 32
p0 1.854 ± 1.248e−05
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −40.28
Std Dev 0
10000
5000
0
−5000
−10000
−15000

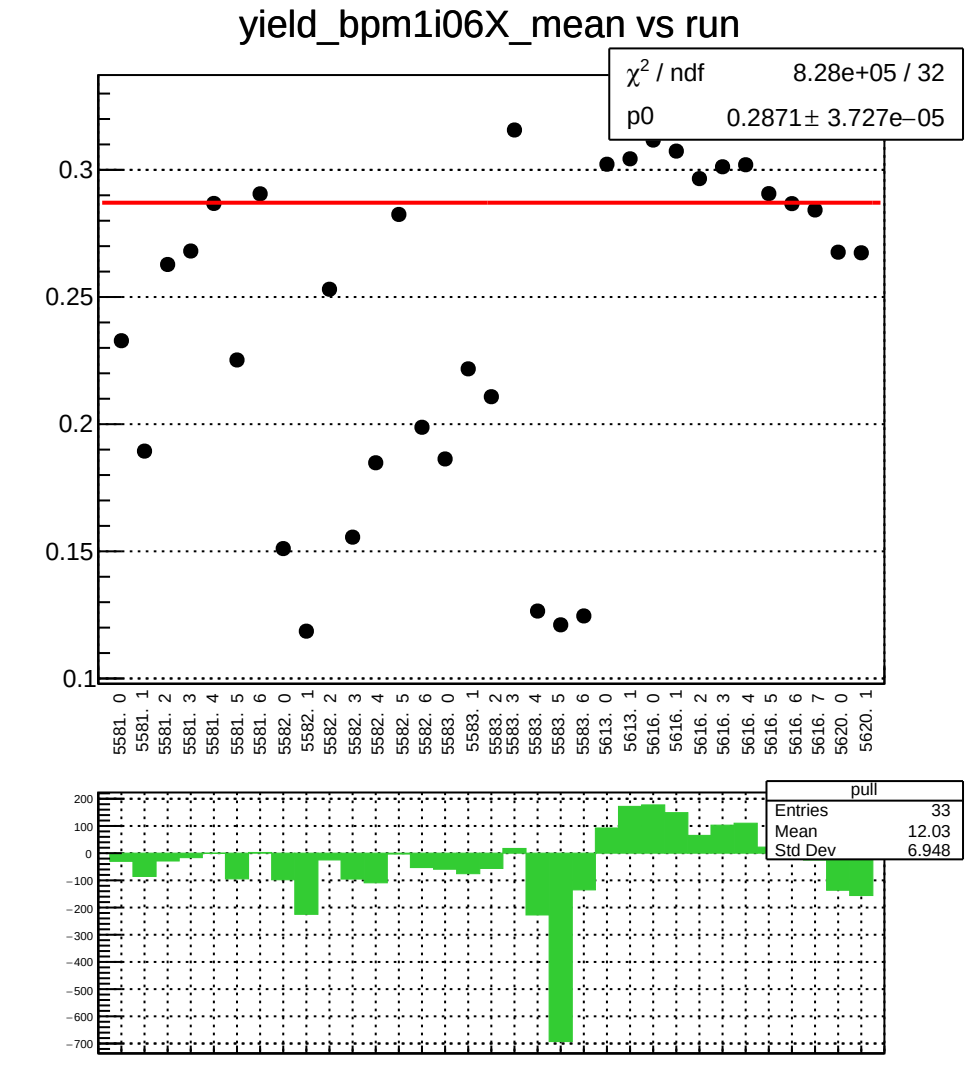

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

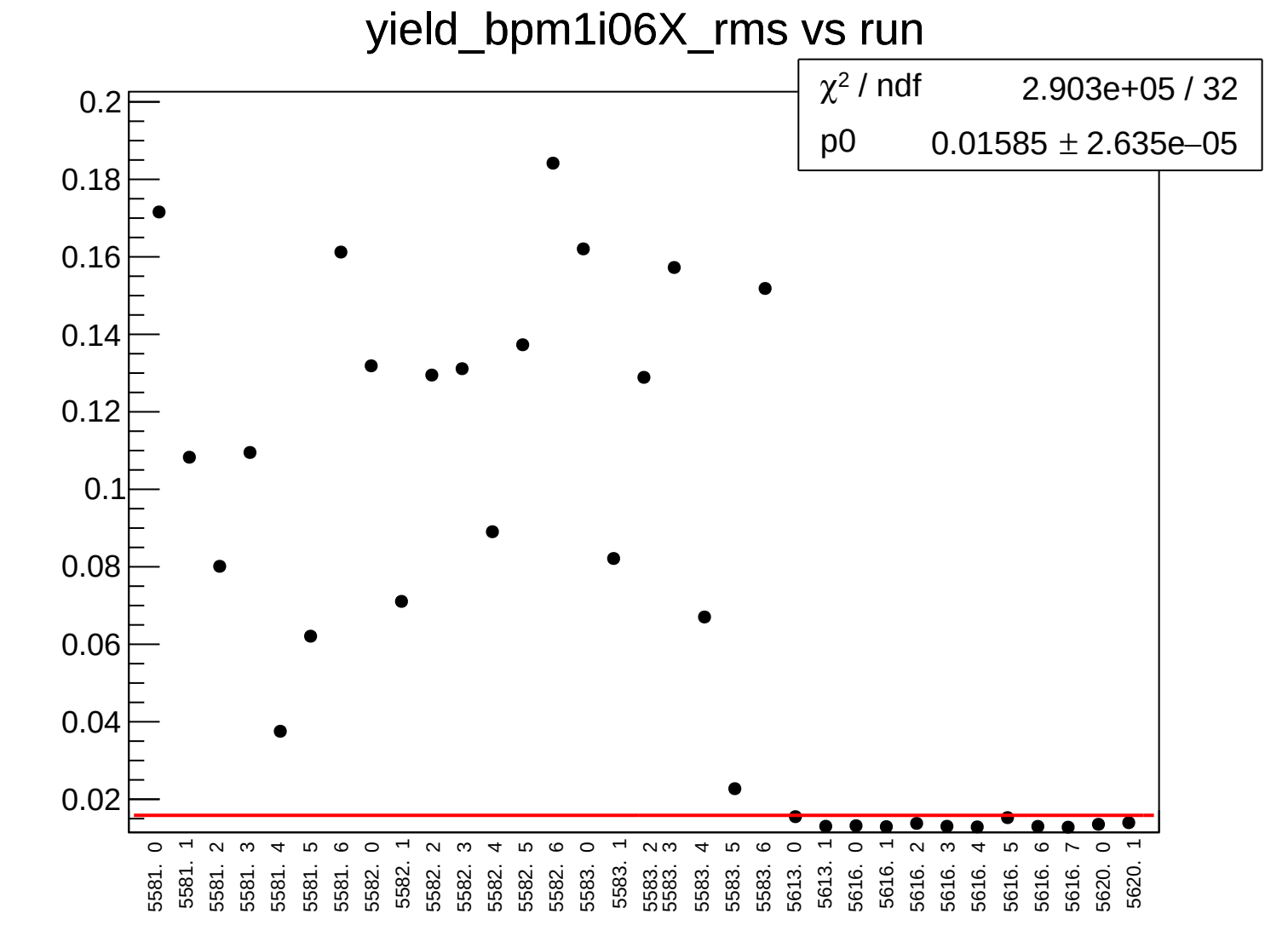

yield_bpm1i04X_rms vs run
χ² / ndf 3.149e+04 / 32
p0 0.006951 ± 8.825e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

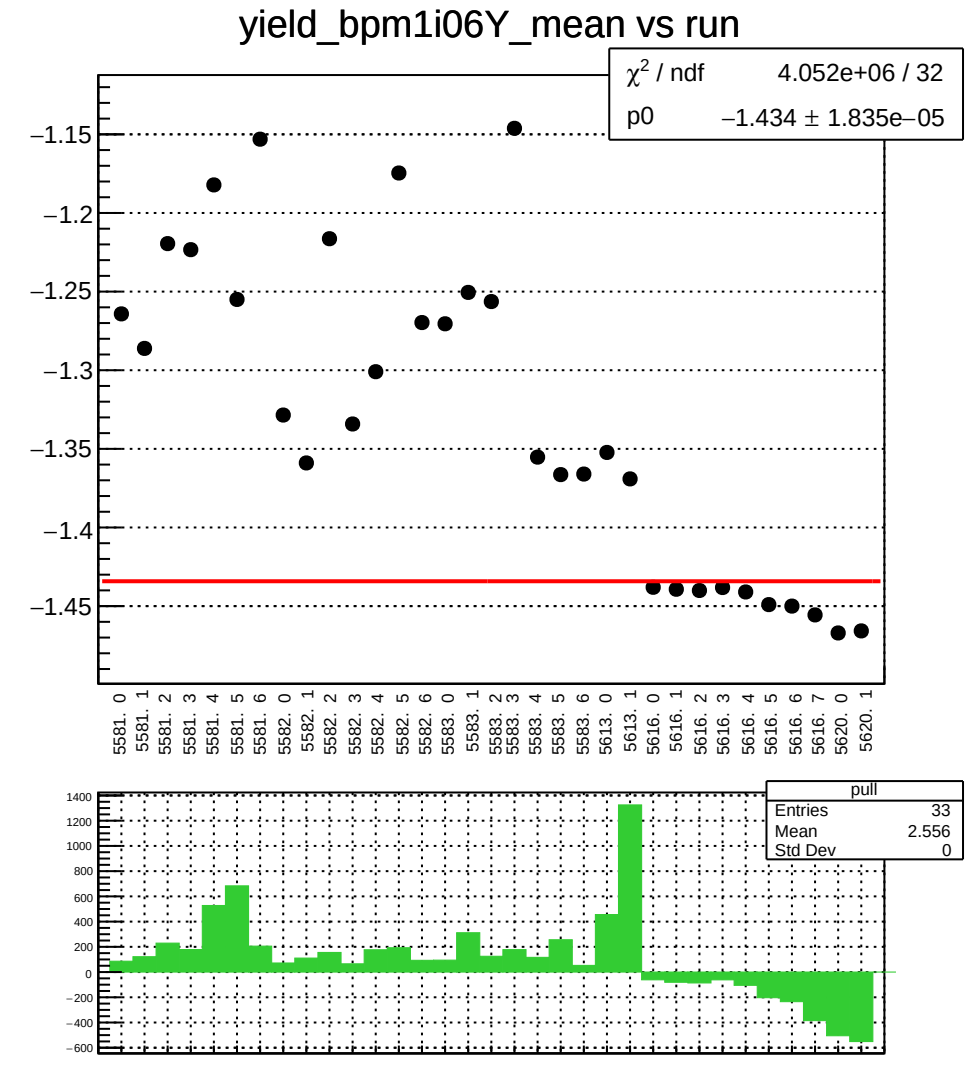

yield_bpm1i04Y_mean vs run
χ² / ndf 2.162e+09 / 32
p0 4.121± 1.438e−05
4.5
4
3.5
3
2.5
2
1.5
1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 7.467
Std Dev 0
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
−35000
−40000

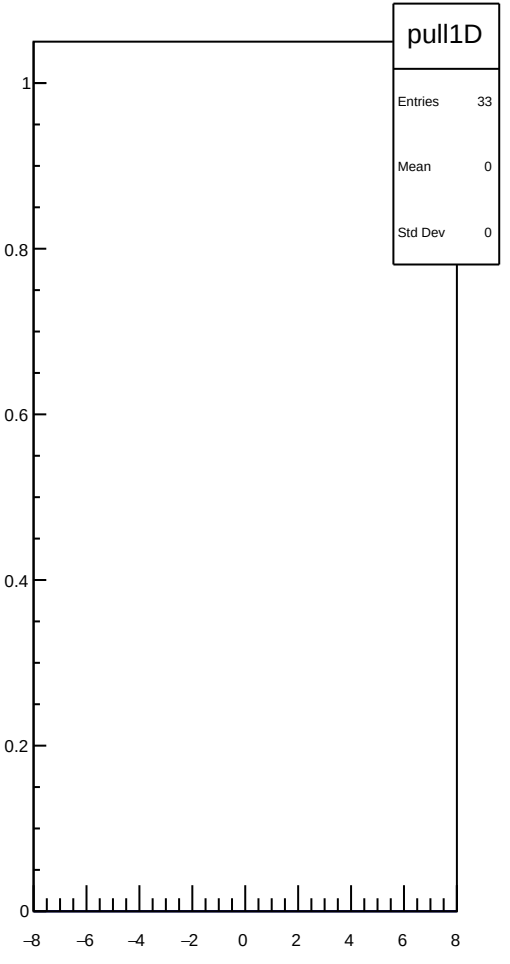

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

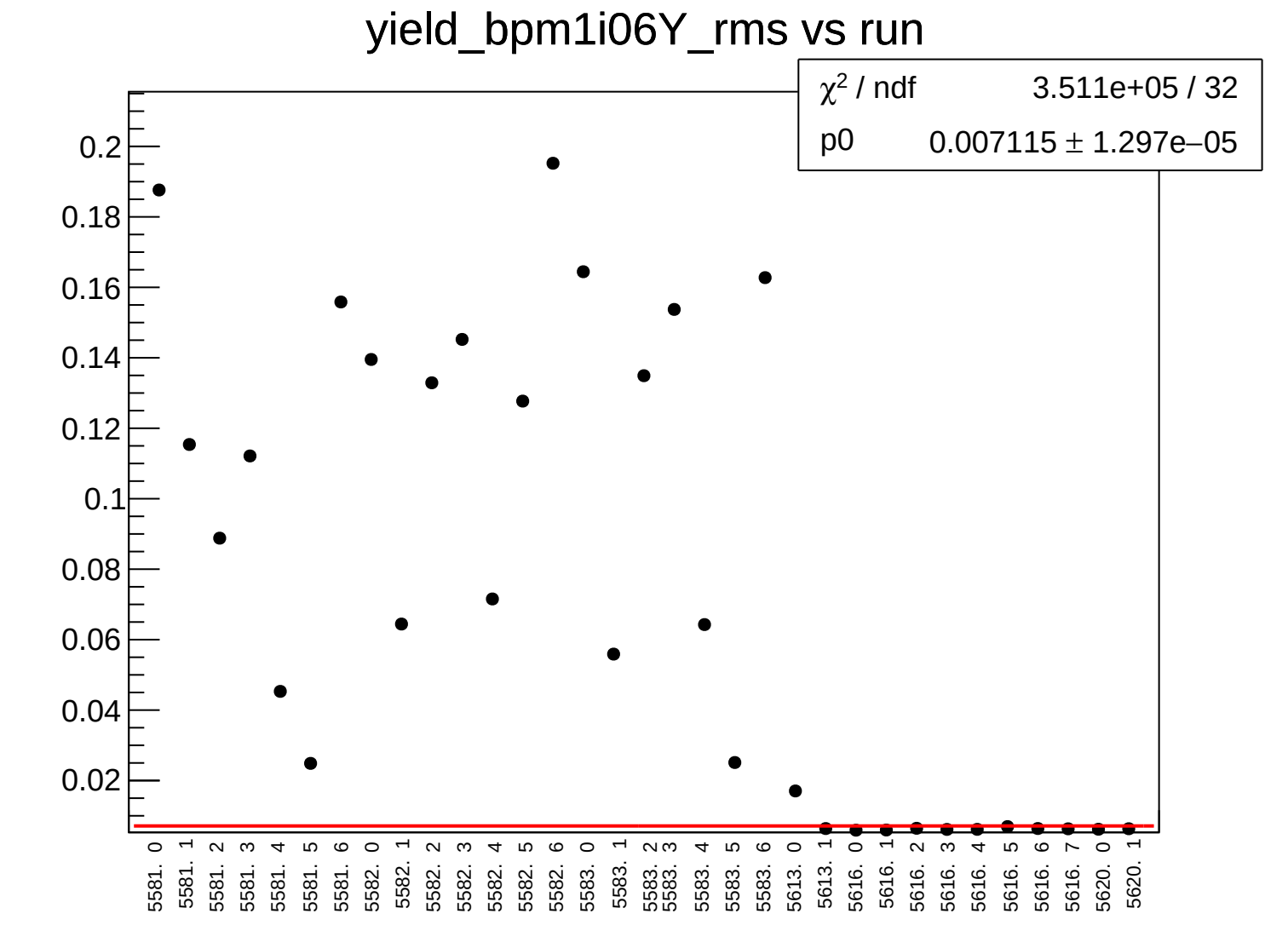

yield_bpm1i04Y_rms vs run
χ² / ndf 3.256e+05 / 32
p0 0.00581 ± 1.017e–05
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

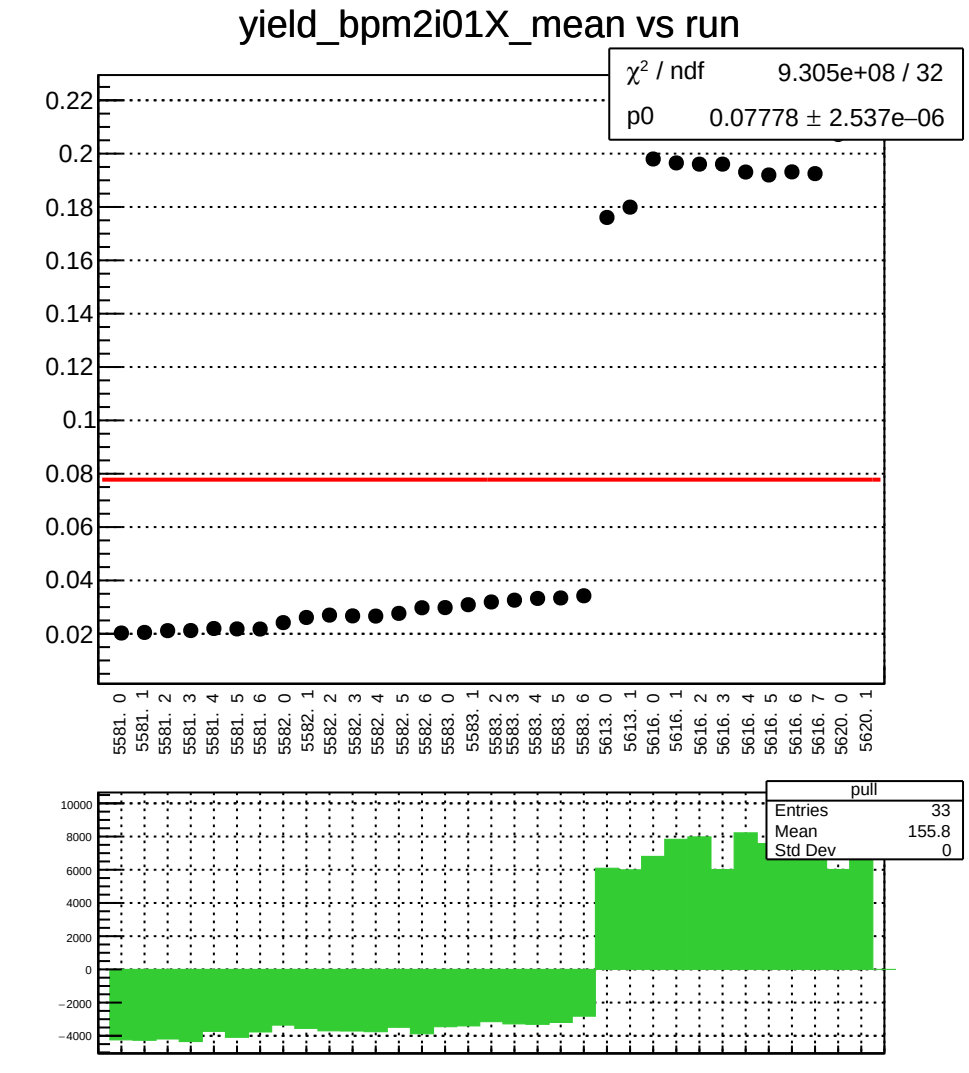

yield_bpm1i06X_mean vs run
χ² / ndf 8.28e+05 / 32
p0 0.2871± 3.727e−05
0.3
0.25
0.2
0.15
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 12.03
Std Dev 6.948
200
100
0
−100
−200
−300
−400
−500
−600
−700
pull1D
Entries 33
Mean −1.016
Std Dev 2.211
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

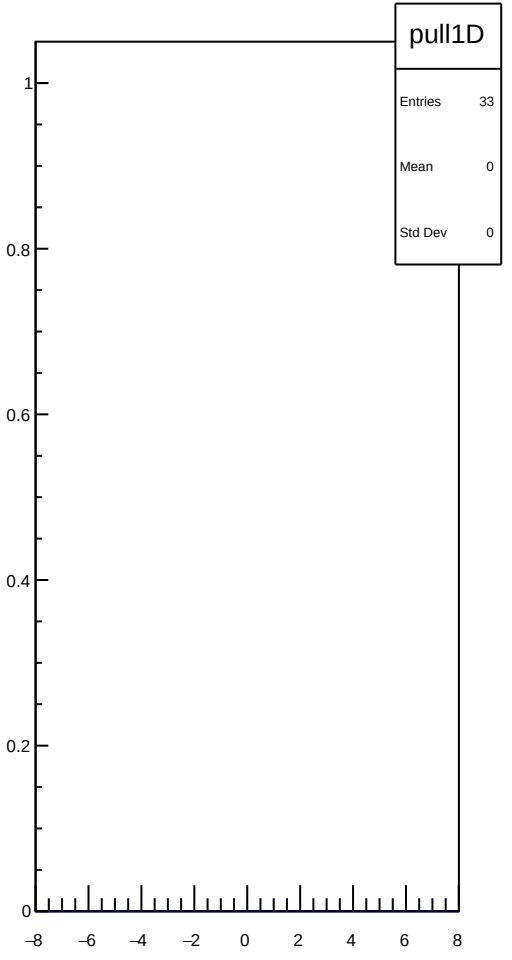

yield_bpm1i06X_rms vs run
χ² / ndf 2.903e+05 / 32
p0 0.01585 ± 2.635e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

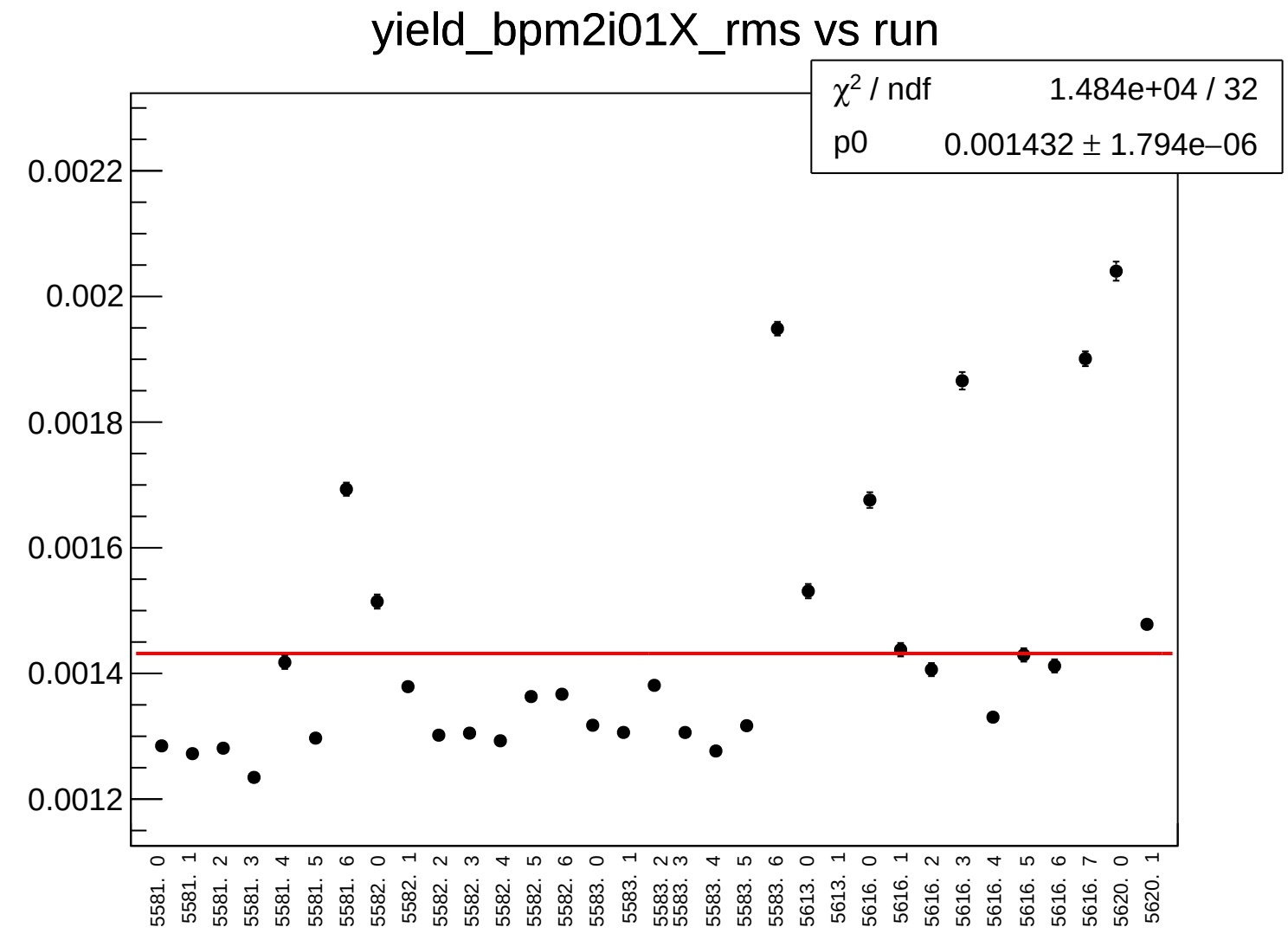

yield_bpm1i06Y_mean vs run
χ² / ndf 4.052e+06 / 32
p0 −1.434 ± 1.835e−05
−1.15
−1.2
−1.25
−1.3
−1.35
−1.4
−1.45
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2.556
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600

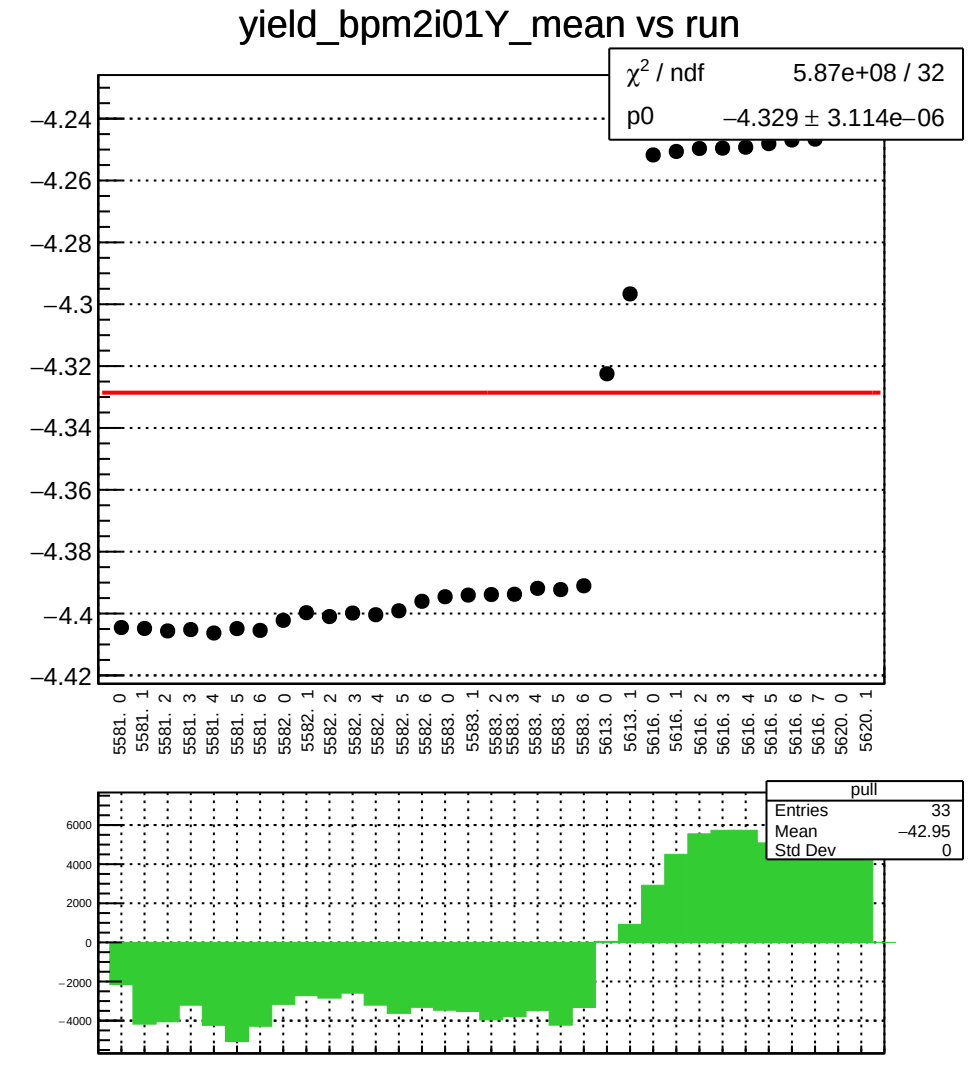

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

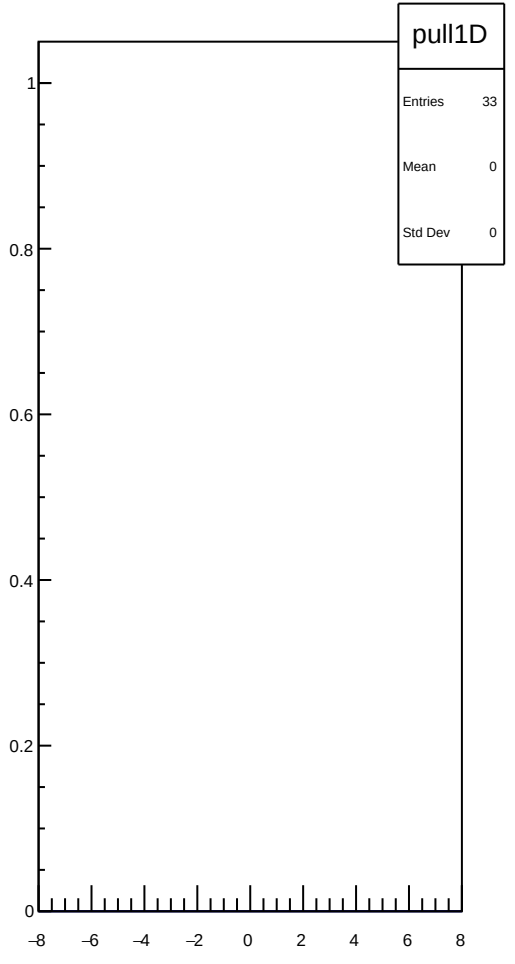

yield_bpm1i06Y_rms vs run
χ² / ndf 3.511e+05 / 32
p0 0.007115 ± 1.297e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

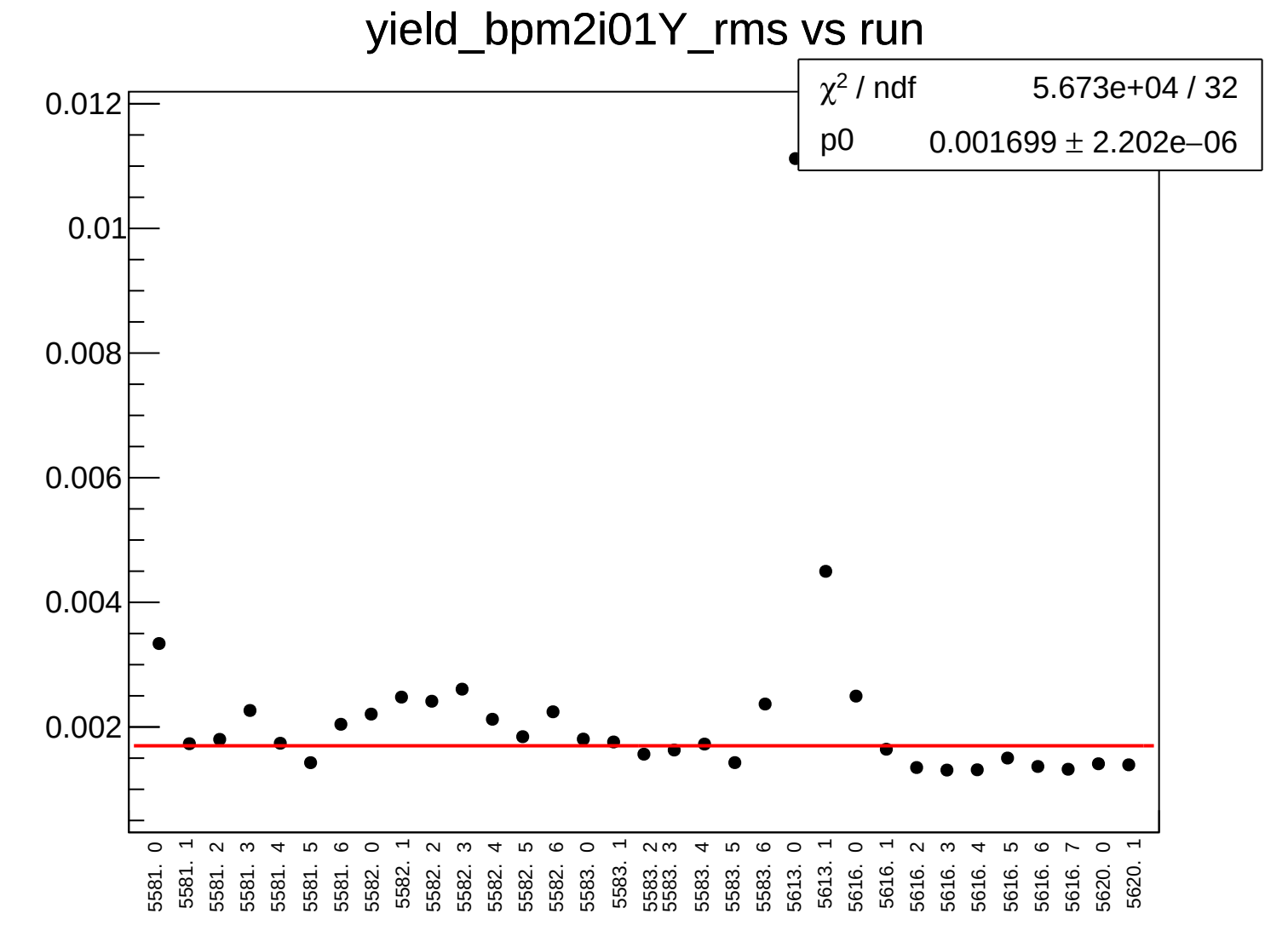

yield_bpm2i01X_mean vs run
χ² / ndf 9.305e+08 / 32
p0 0.07778 ± 2.537e−06
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 155.8
Std Dev 0
10000
8000
6000
4000
2000
0
−2000
−4000

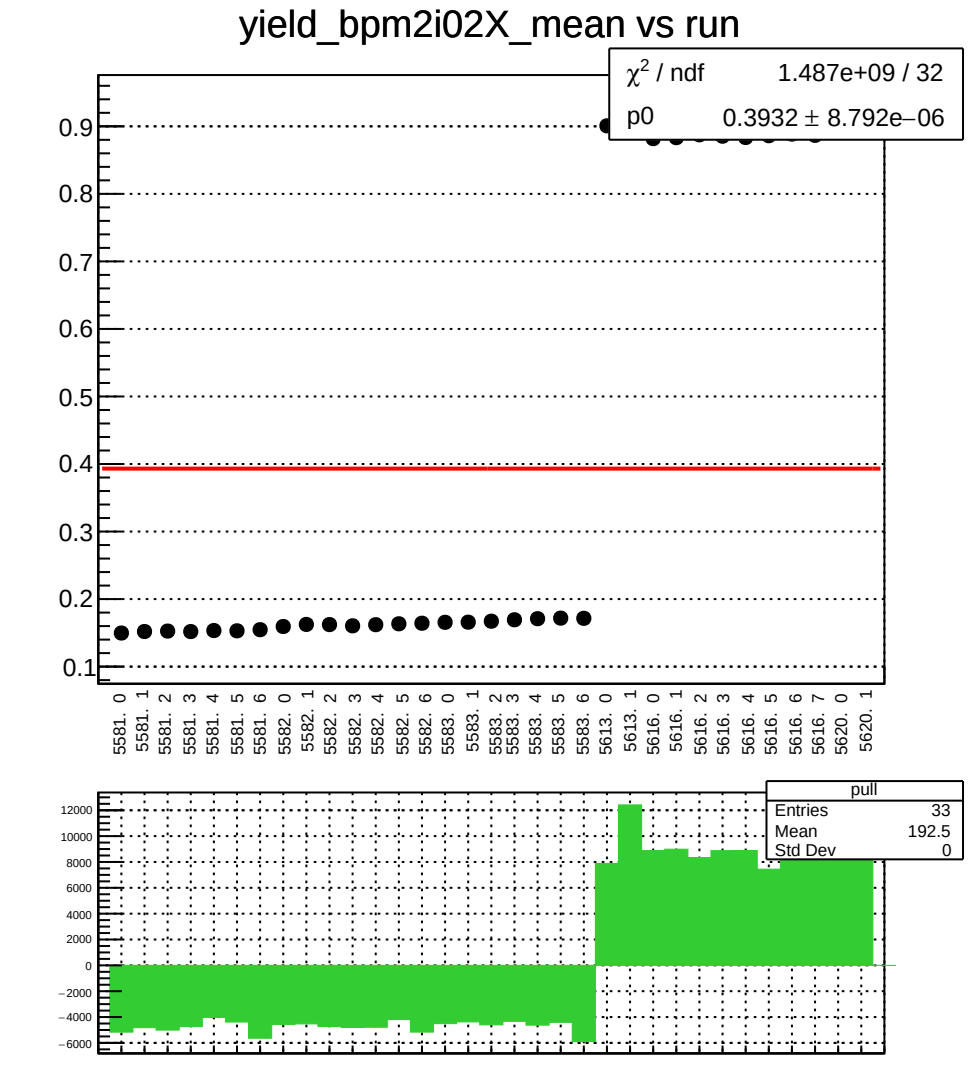

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

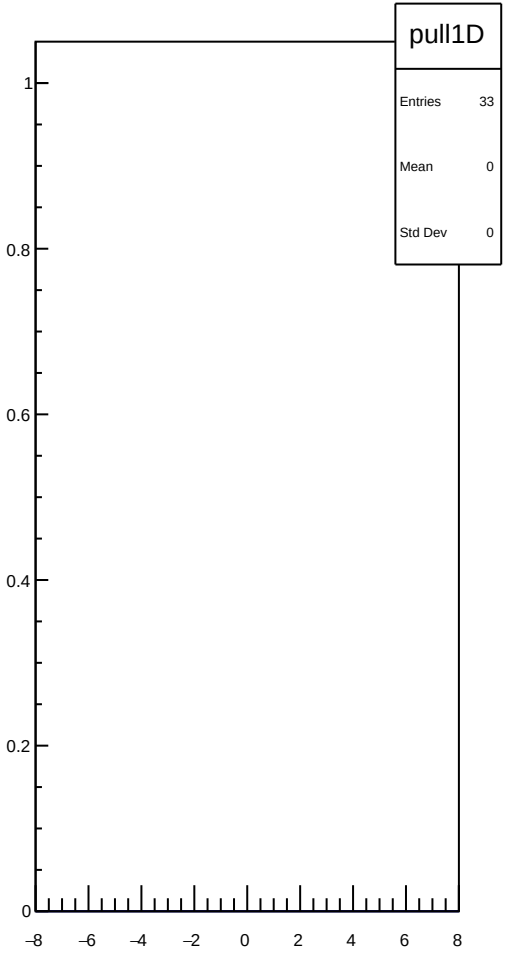

yield_bpm2i01X_rms vs run
χ² / ndf 1.484e+04 / 32
p0 0.001432 ± 1.794e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

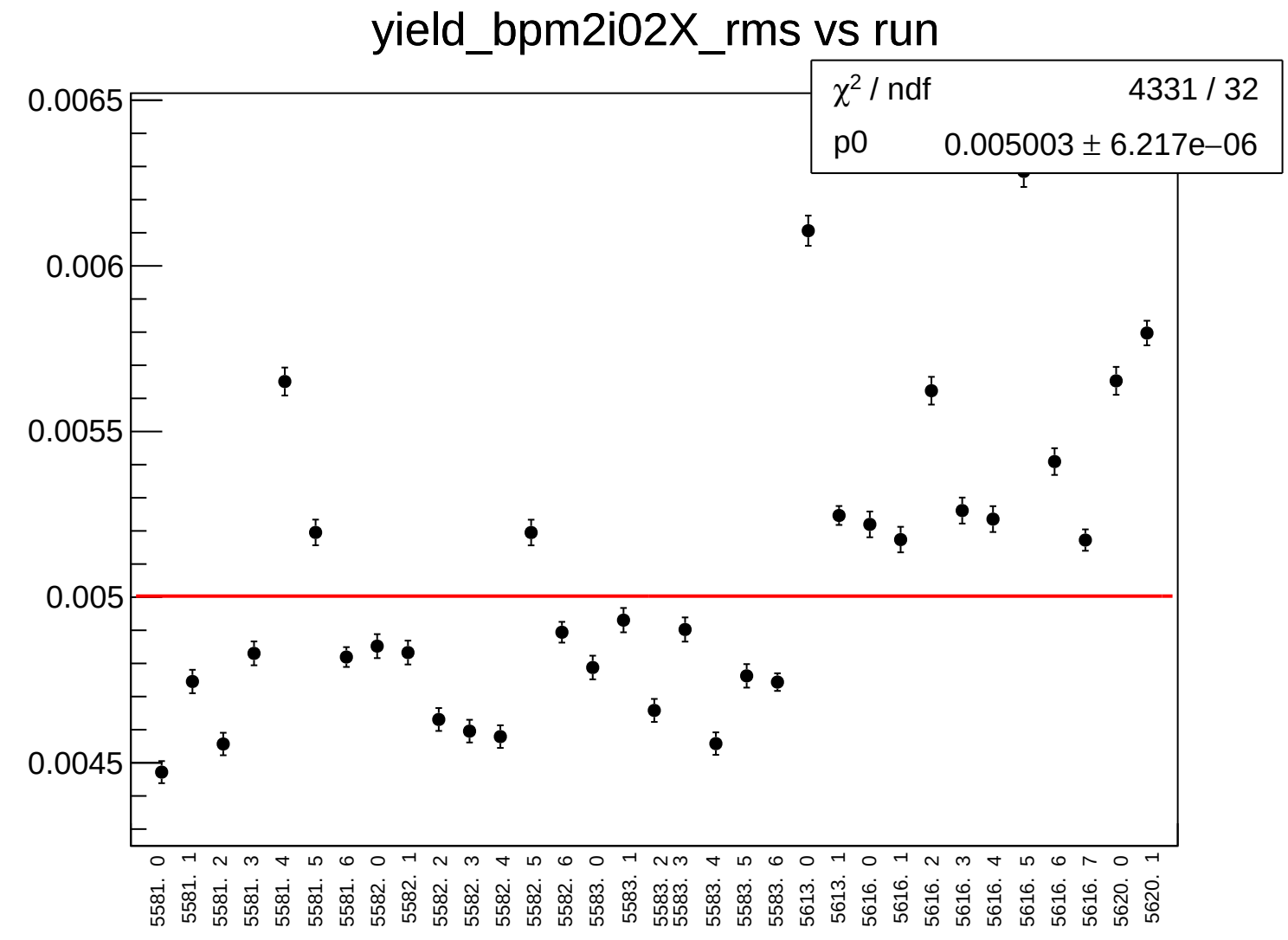

yield_bpm2i01Y_mean vs run
χ² / ndf 5.87e+08 / 32
p0 −4.329 ± 3.114e−06
−4.24
−4.26
−4.28
−4.3
−4.32
−4.34
−4.36
−4.38
−4.4
−4.42
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −42.95
Std Dev 0
6000
4000
2000
0
−2000
−4000

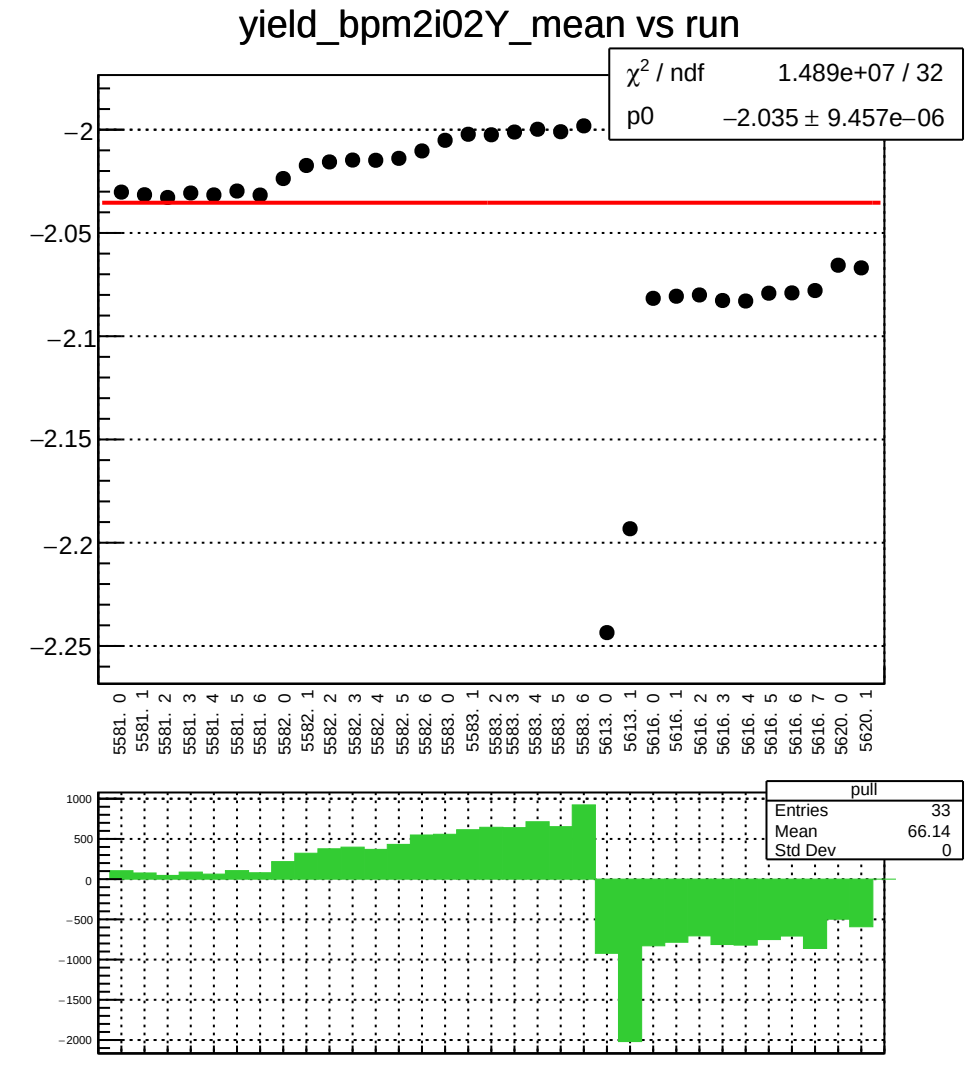

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

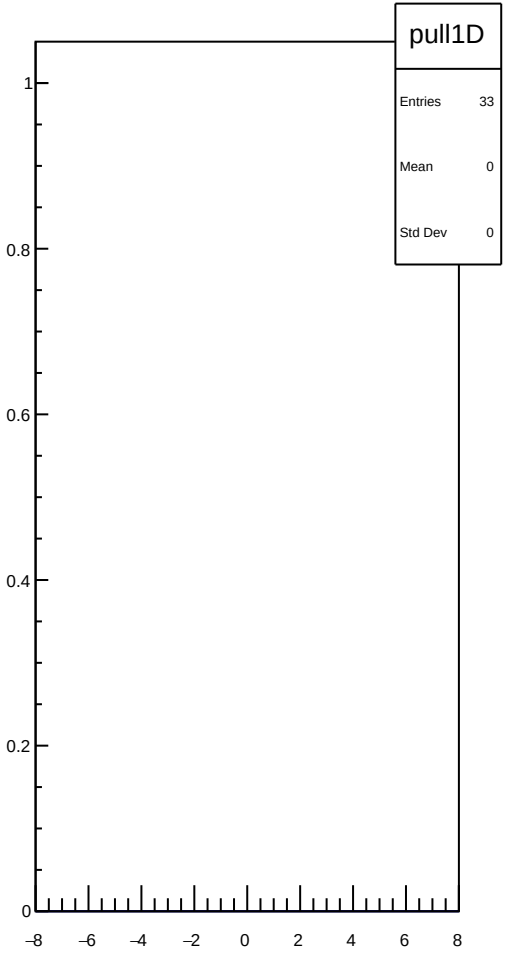

yield_bpm2i01Y_rms vs run
χ² / ndf 5.673e+04 / 32
p0 0.001699 ± 2.202e−06
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

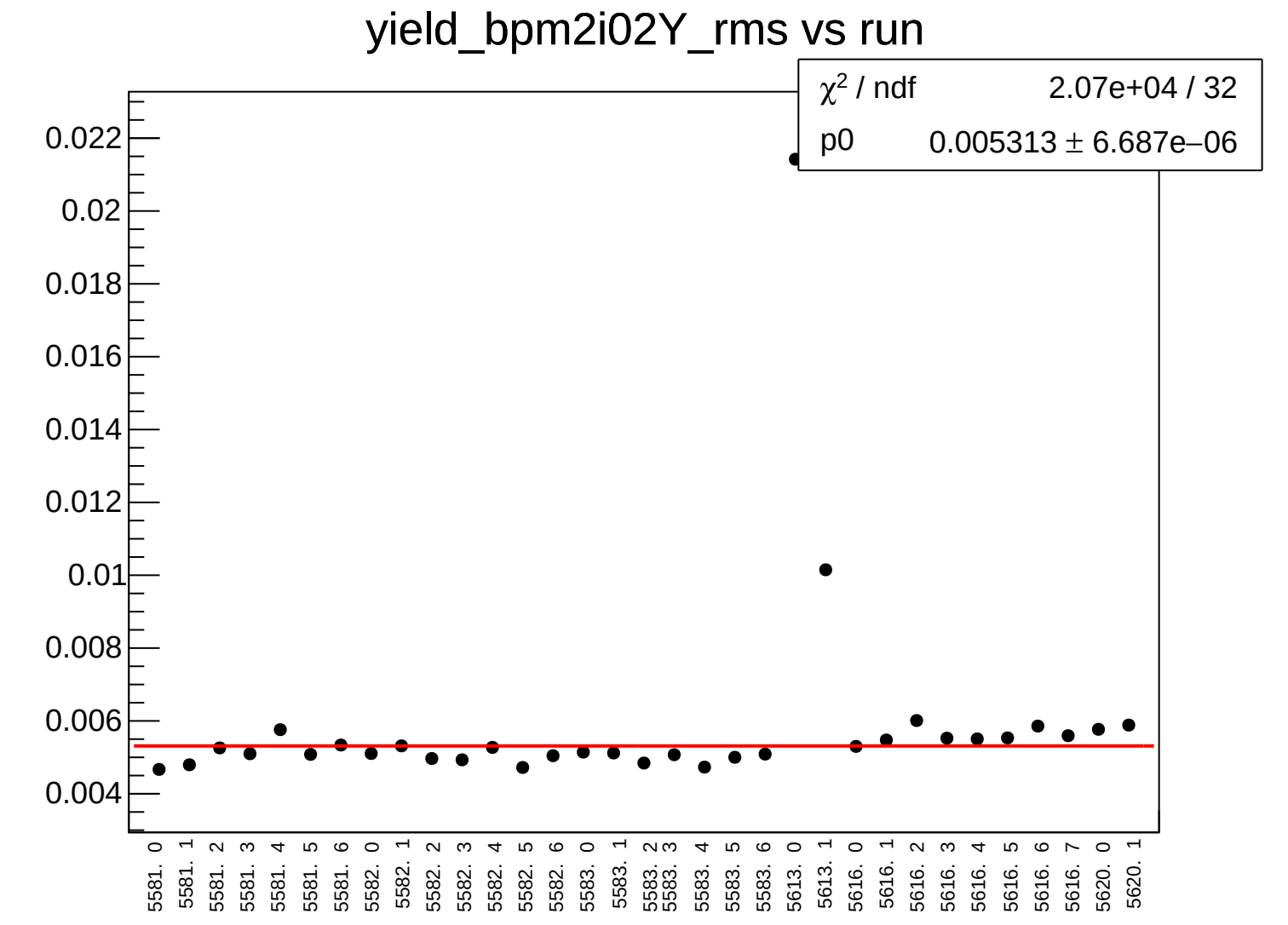

yield_bpm2i02X_mean vs run
χ² / ndf 1.487e+09 / 32
p0 0.3932 ± 8.792e−06
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 192.5
Std Dev 0
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000

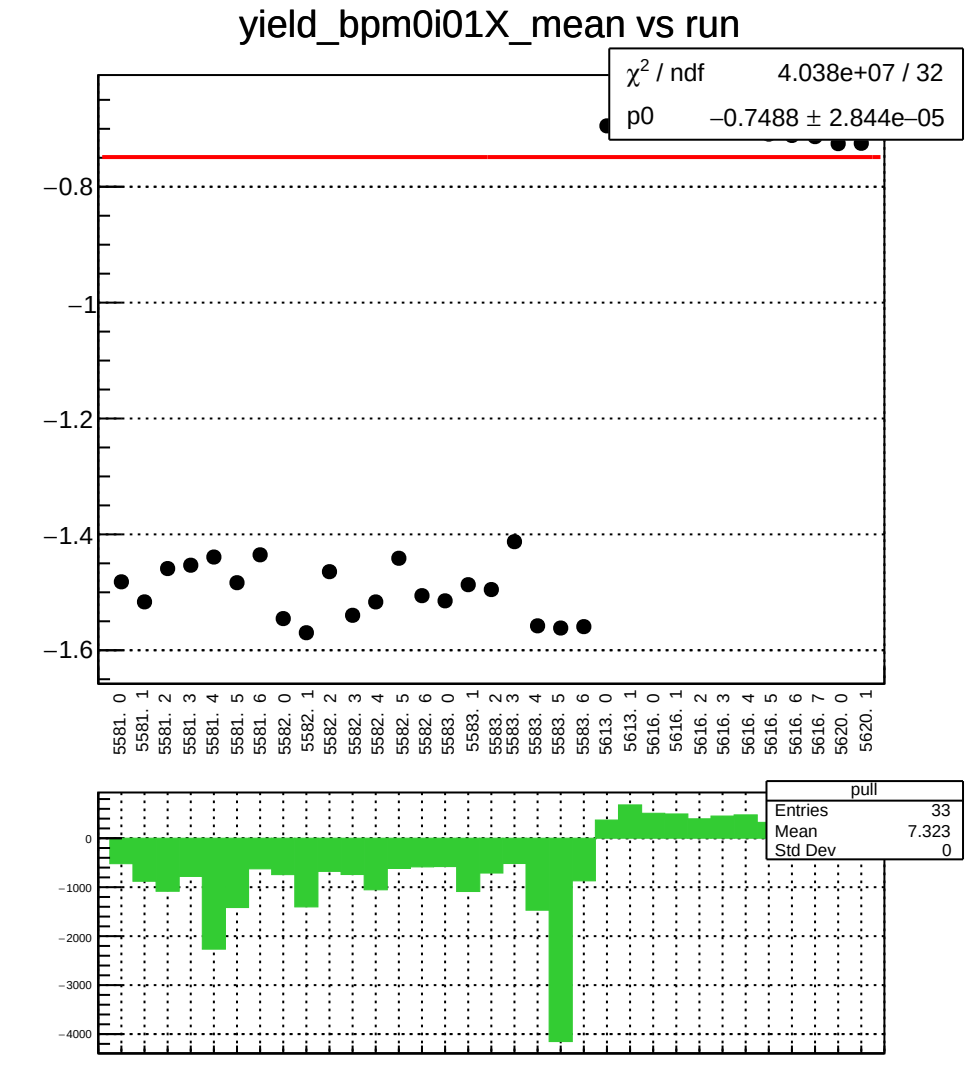

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

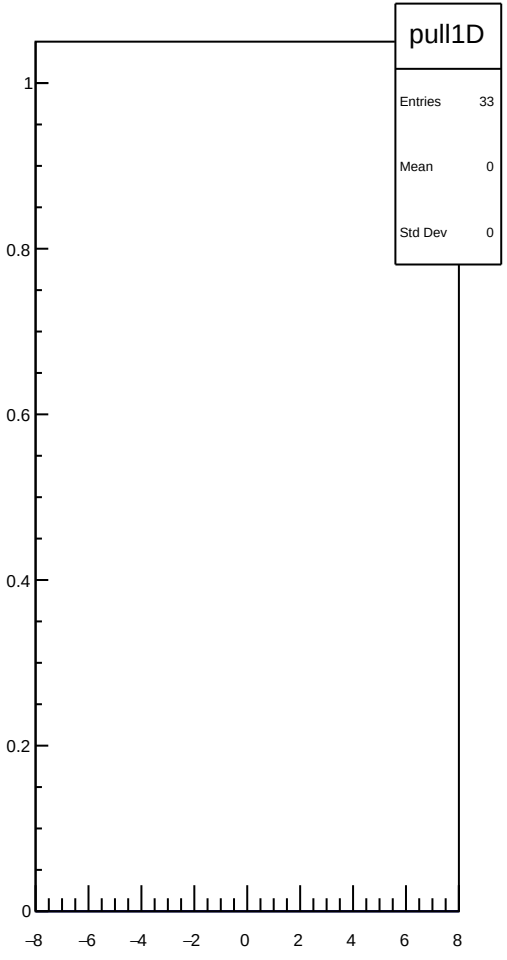

yield_bpm2i02X_rms vs run
χ² / ndf 4331 / 32
p0 0.005003 ± 6.217e−06
0.0065
0.006
0.0055
0.005
0.0045
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

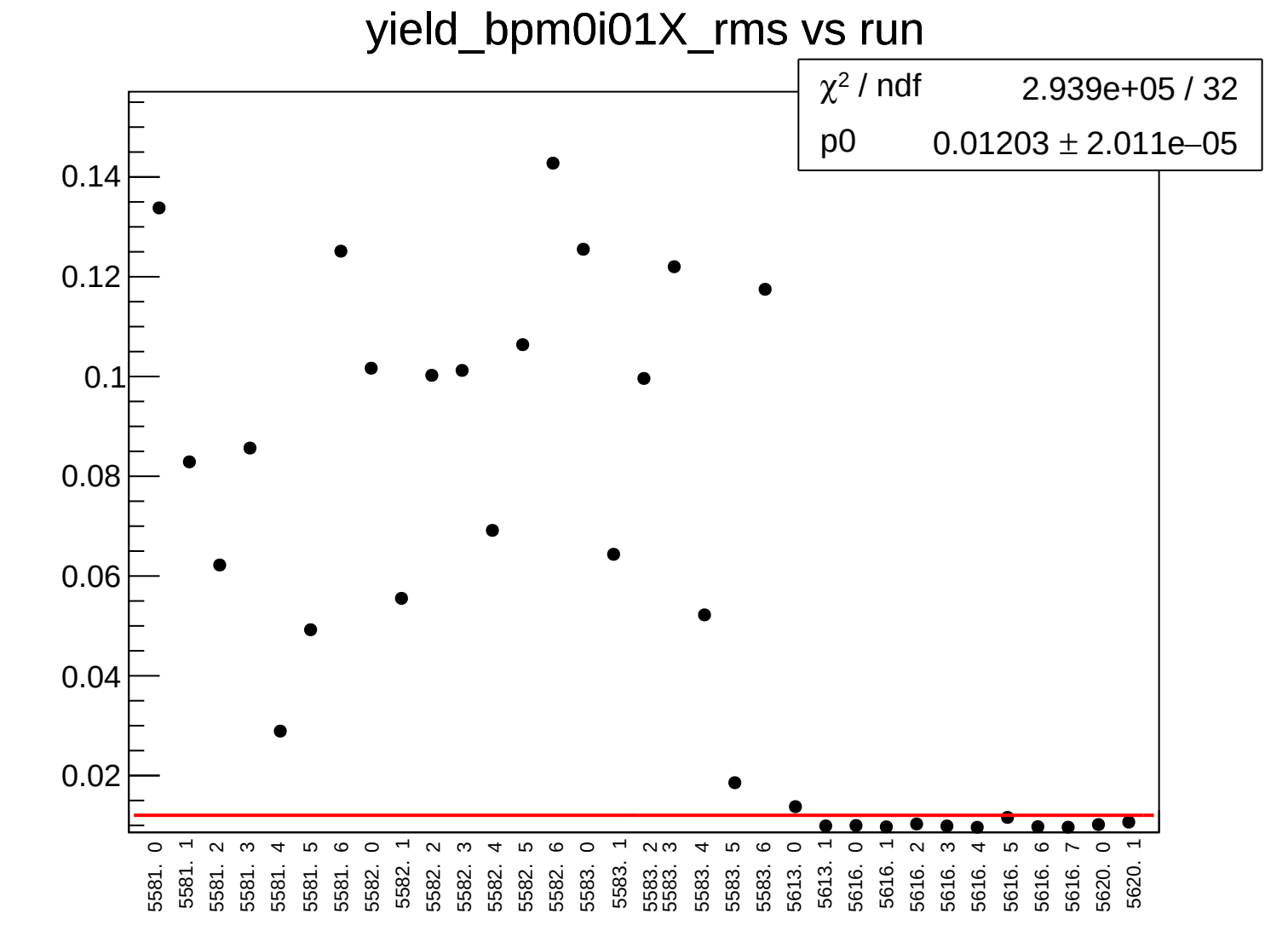

yield_bpm2i02Y_mean vs run
χ² / ndf 1.489e+07 / 32
p0 −2.035 ± 9.457e−06
−2
−2.05
−2.1
−2.15
−2.2
−2.25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 66.14
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

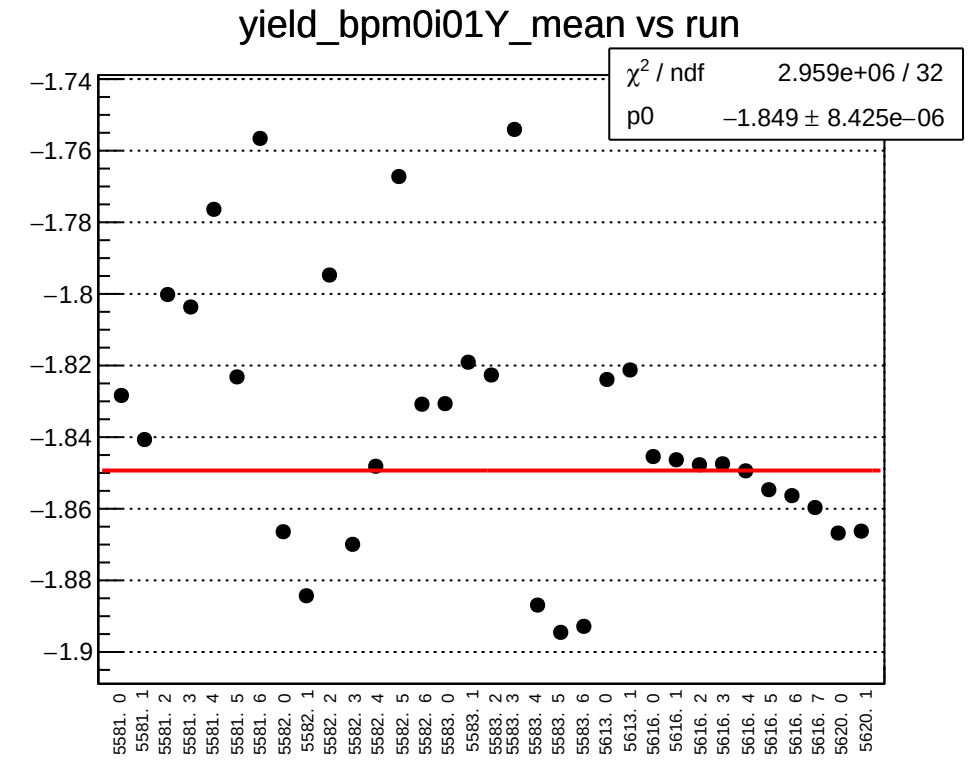

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

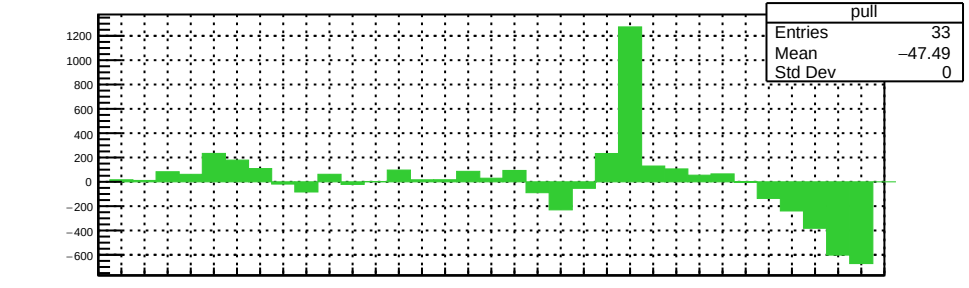

yield_bpm2i02Y_rms vs run
χ² / ndf 2.07e+04 / 32
p0 0.005313 ± 6.687e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

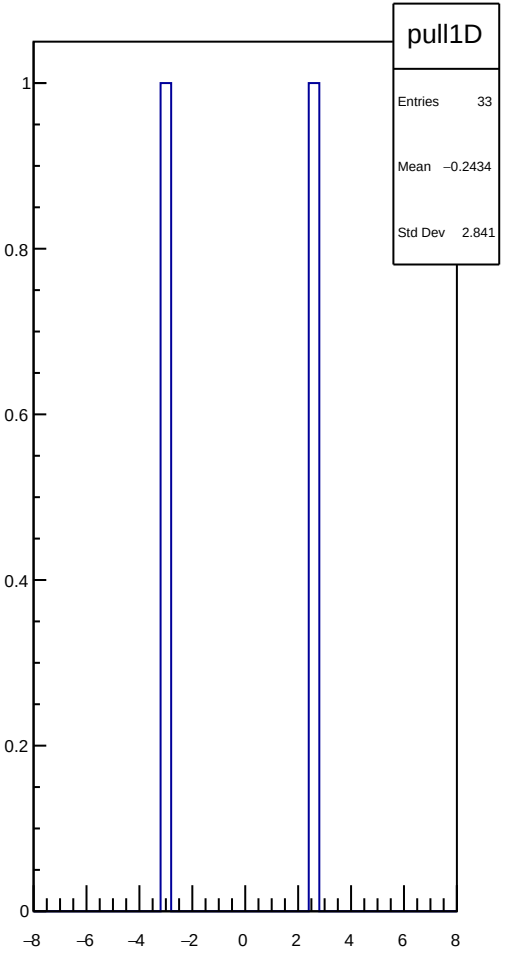

yield_bpm0i01X_mean vs run
χ² / ndf 4.038e+07 / 32
p0 −0.7488 ± 2.844e−05
−0.8
−1
−1.2
−1.4
−1.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 7.323
Std Dev 0
0
−1000
−2000
−3000
−4000

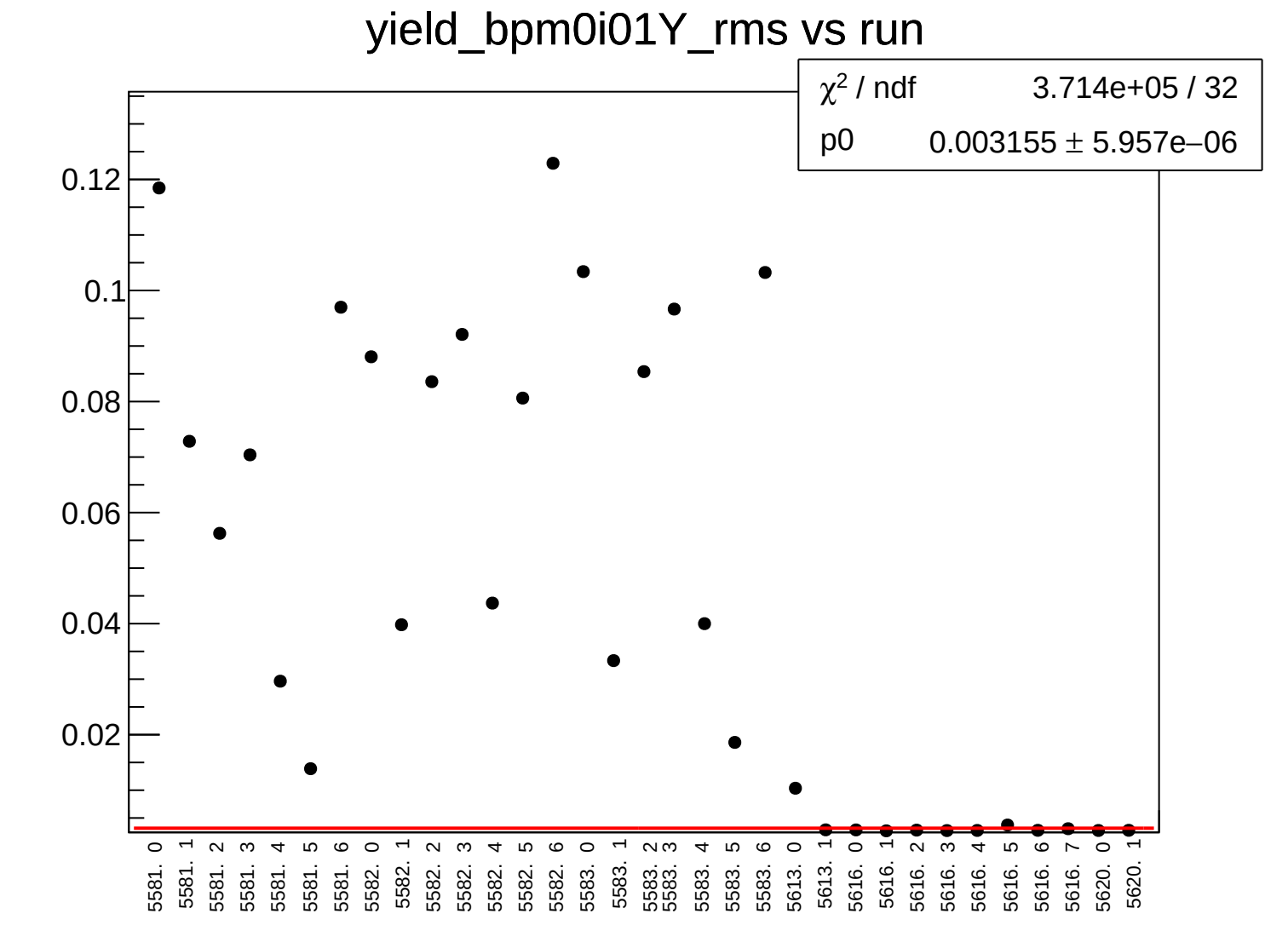

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

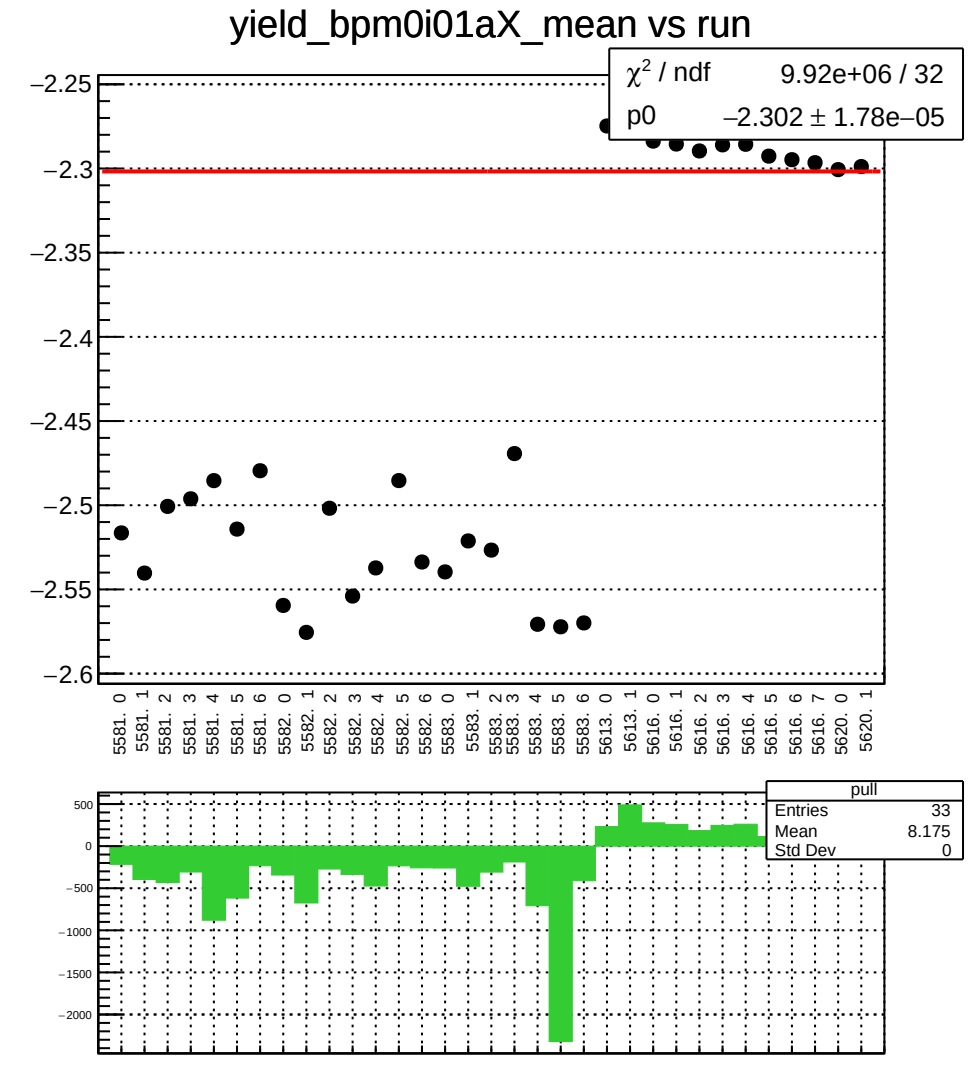

yield_bpm0i01X_rms vs run
χ² / ndf 2.939e+05 / 32
p0 0.01203 ± 2.011e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

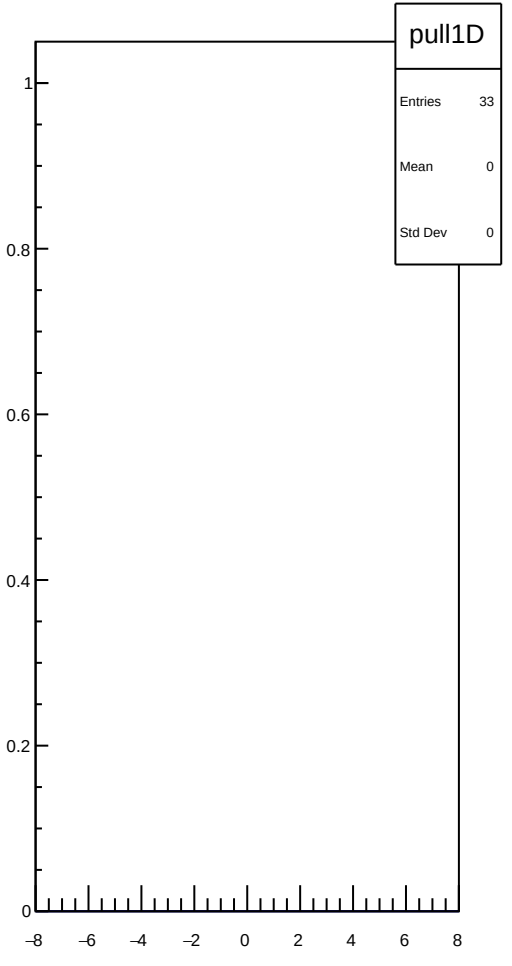

yield_bpm0i01Y_mean vs run
χ² / ndf 2.959e+06 / 32
p0 −1.849 ± 8.425e−06
−1.74
−1.76
−1.78
−1.8
−1.82
−1.84
−1.86
−1.88
−1.9
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

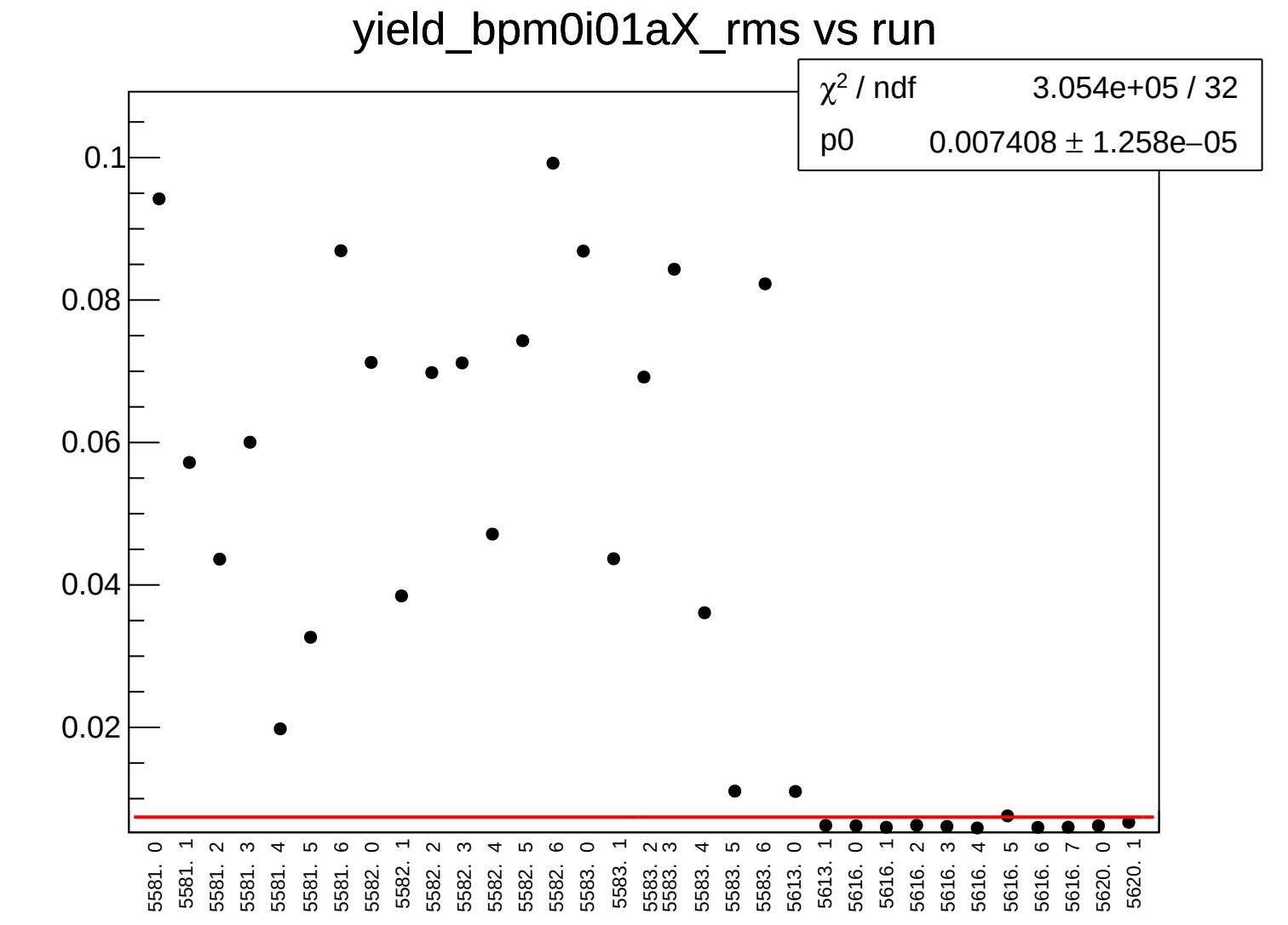

pull
Entries 33
Mean −47.49
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

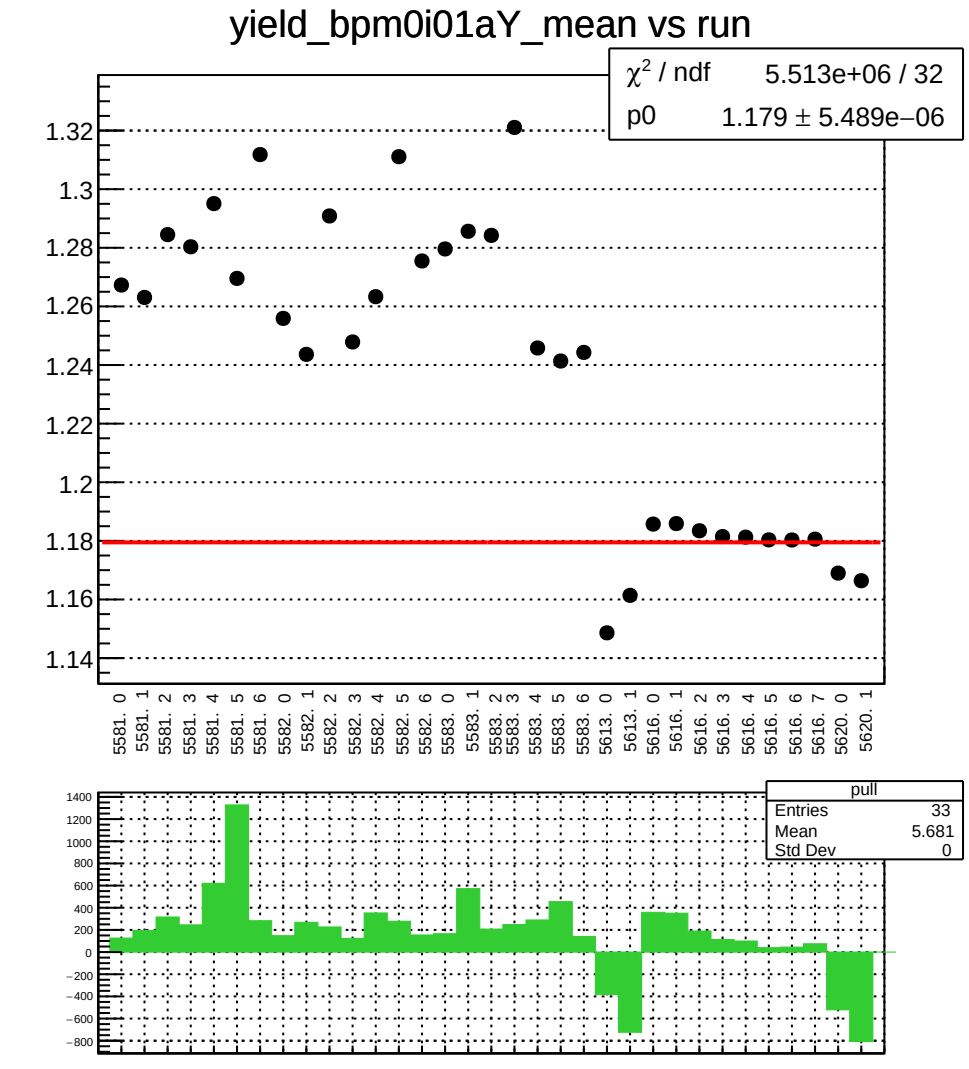

pull1D
Entries 33
Mean −0.2434
Std Dev 2.841
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

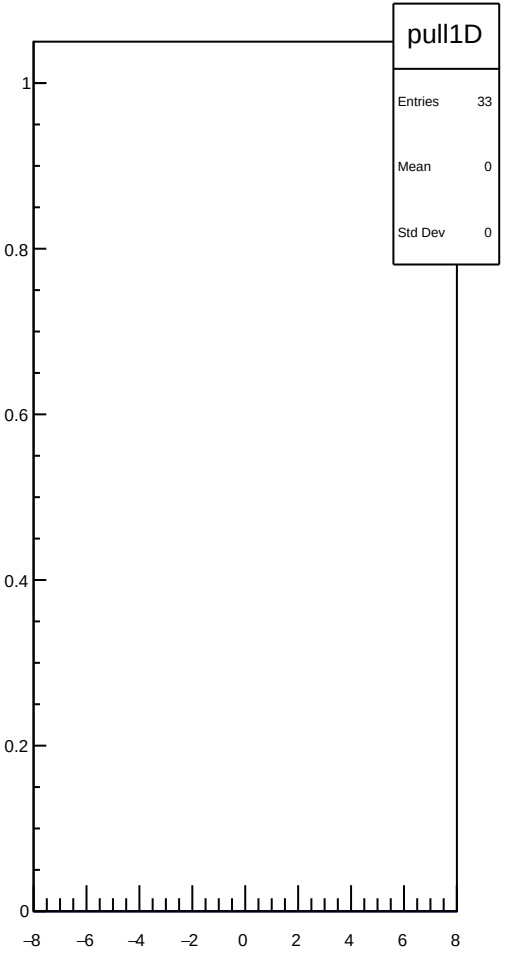

yield_bpm0i01Y_rms vs run
χ² / ndf 3.714e+05 / 32
p0 0.003155 ± 5.957e−06
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

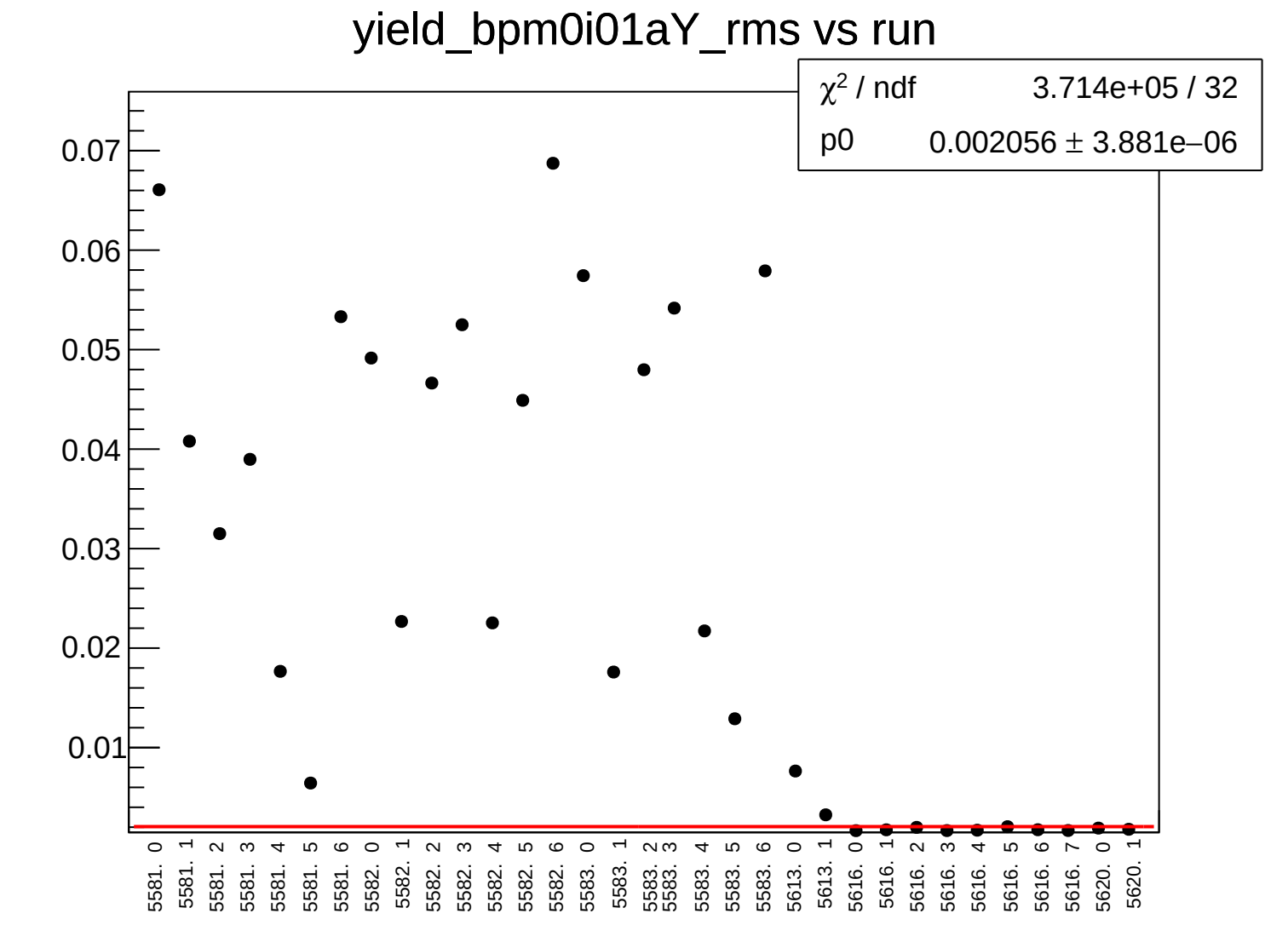

yield_bpm0i01aX_mean vs run
χ² / ndf 9.92e+06 / 32
p0 −2.302 ± 1.78e−05
−2.25
−2.3
−2.35
−2.4
−2.45
−2.5
−2.55
−2.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 8.175
Std Dev 0
500
0
−500
−1000
−1500
−2000

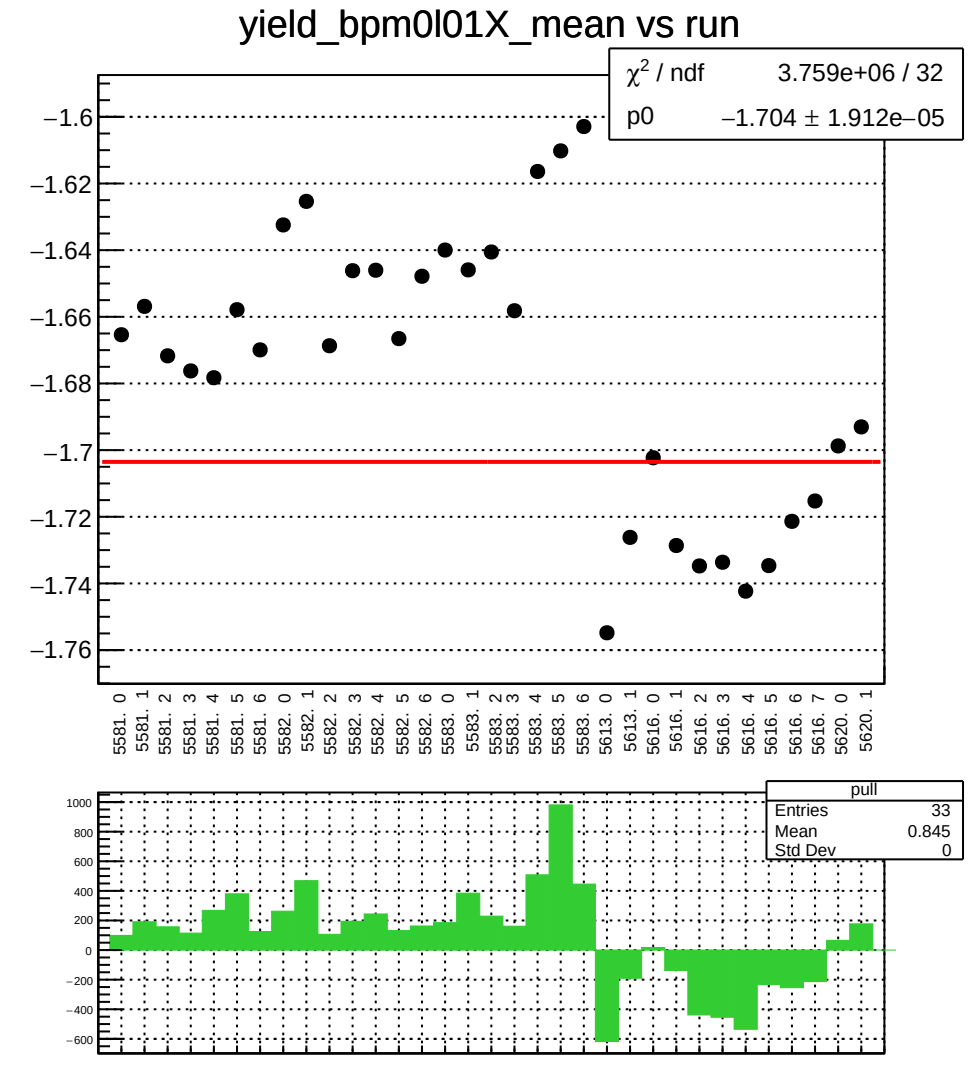

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

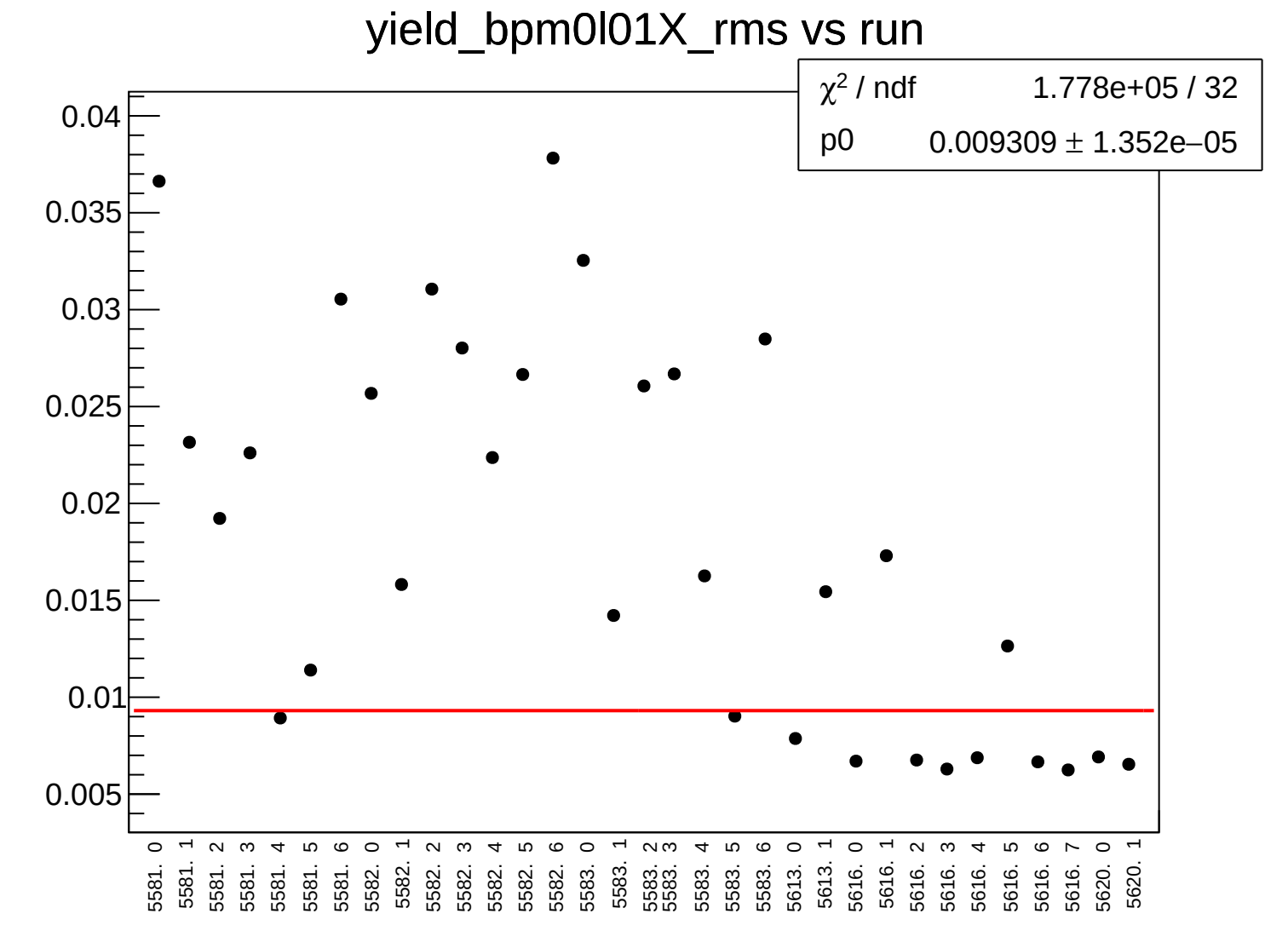

yield_bpm0i01aX_rms vs run
χ² / ndf 3.054e+05 / 32
p0 0.007408 ± 1.258e−05
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

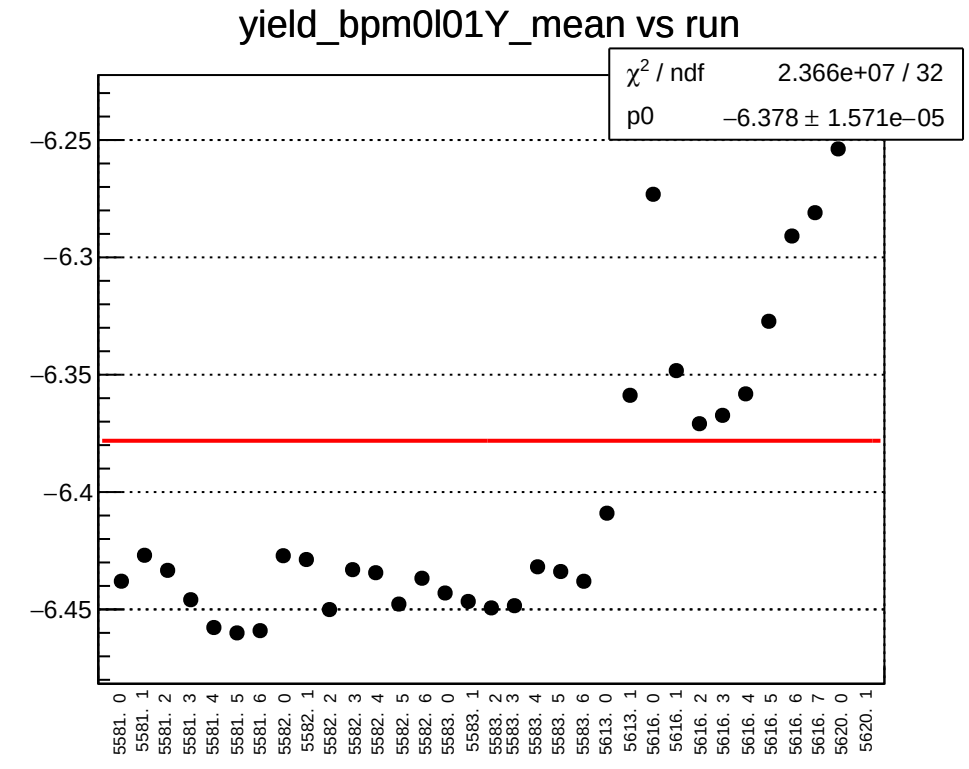

yield_bpm0i01aY_mean vs run
χ² / ndf 5.513e+06 / 32
p0 1.179 ± 5.489e−06
1.32
1.3
1.28
1.26
1.24
1.22
1.2
1.18
1.16
1.14
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5.681
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800

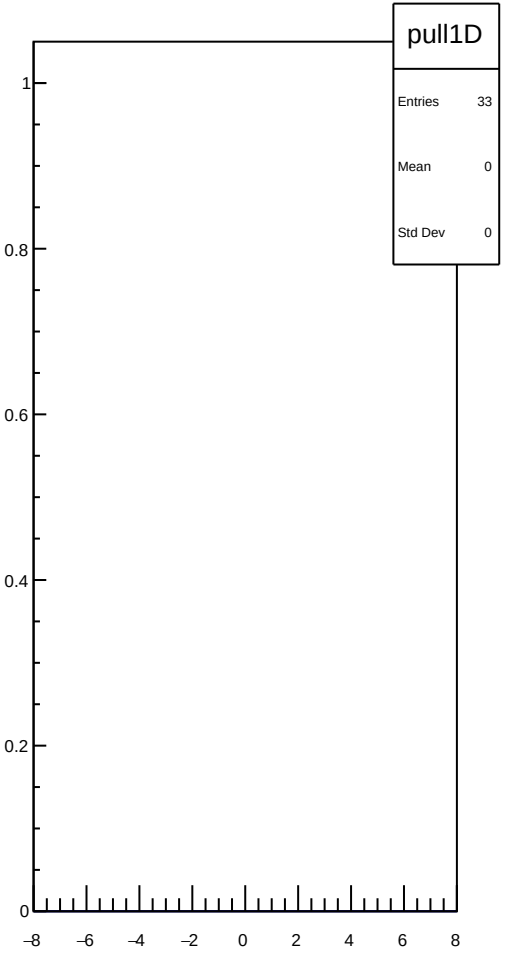

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

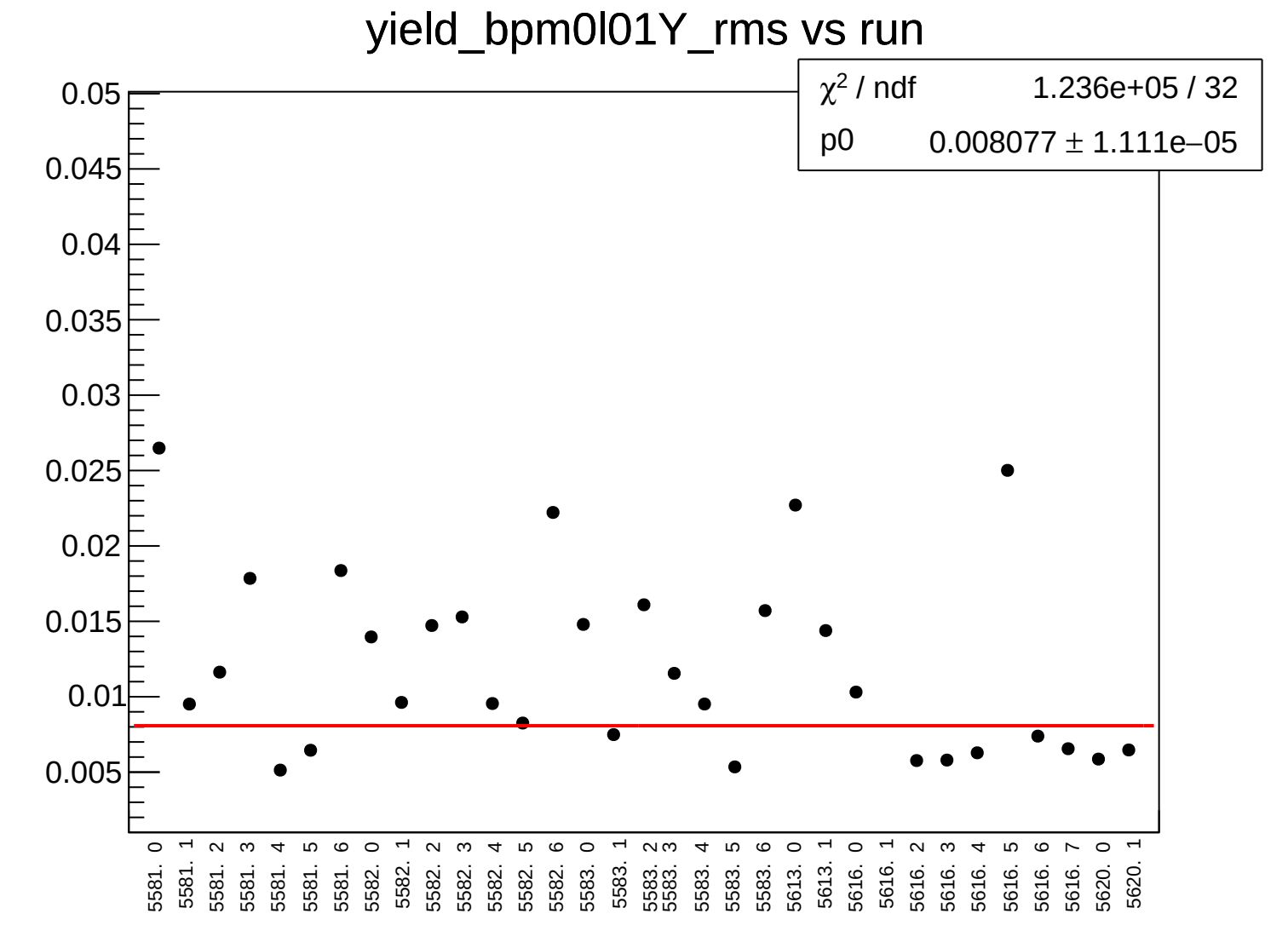

yield_bpm0i01aY_rms vs run
χ² / ndf 3.714e+05 / 32
p0 0.002056 ± 3.881e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

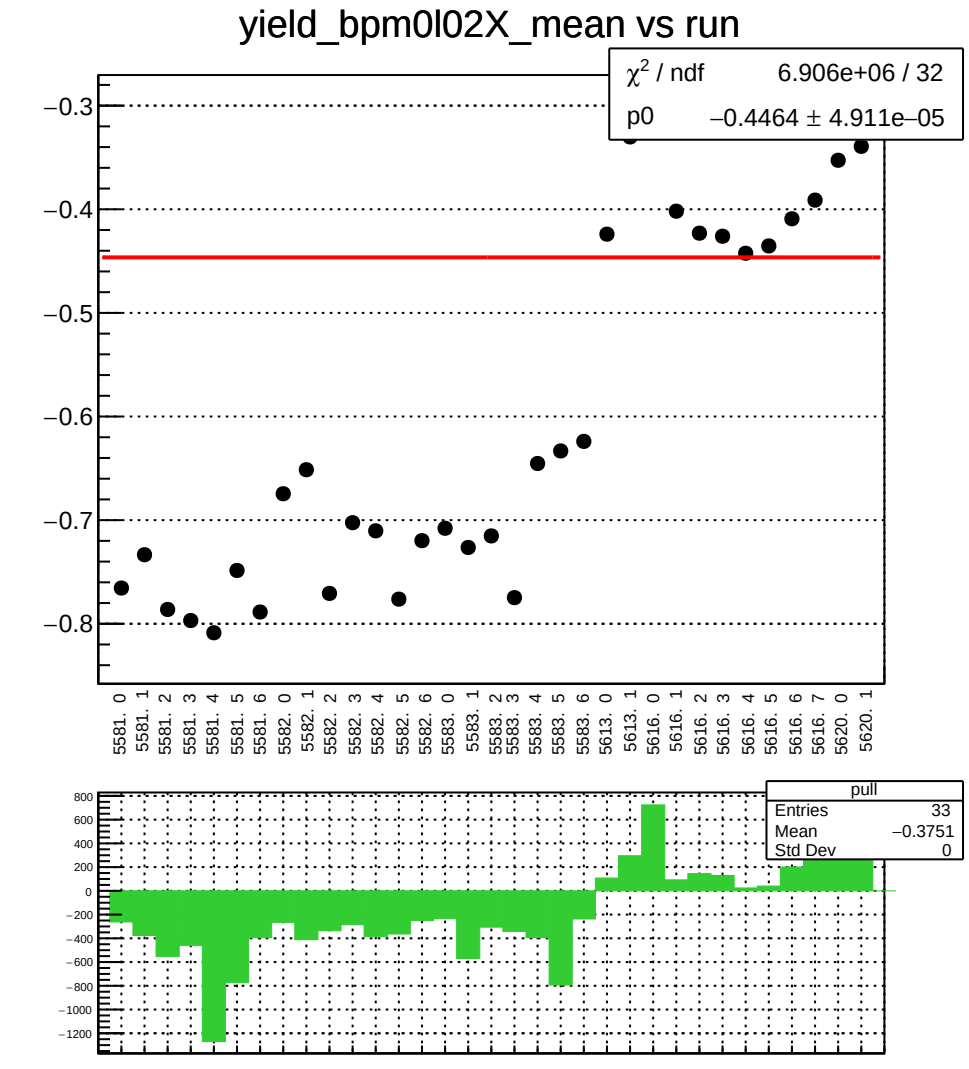

yield_bpm0l01X_mean vs run
χ² / ndf 3.759e+06 / 32
p0 −1.704 ± 1.912e−05
−1.6
−1.62
−1.64
−1.66
−1.68
−1.7
−1.72
−1.74
−1.76
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 0.845
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

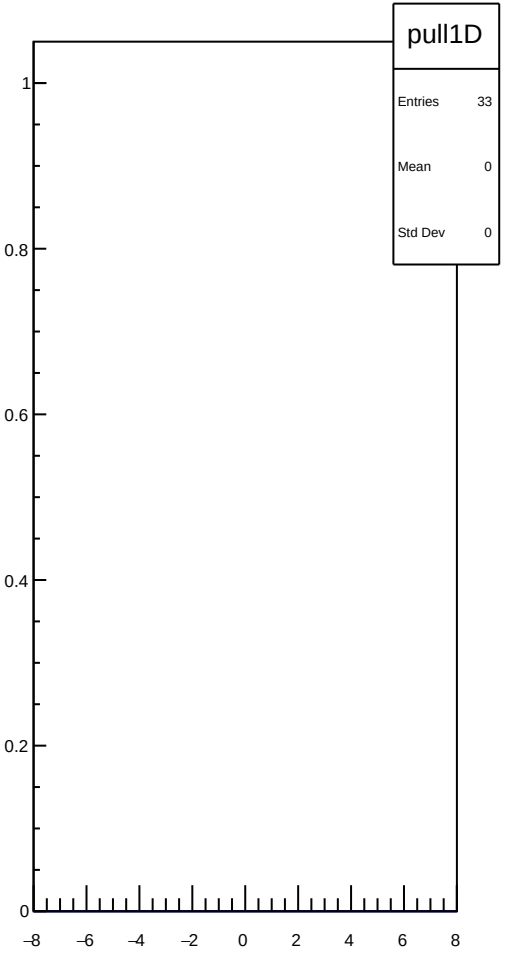

yield_bpm0l01X_rms vs run
χ² / ndf 1.778e+05 / 32
p0 0.009309 ± 1.352e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

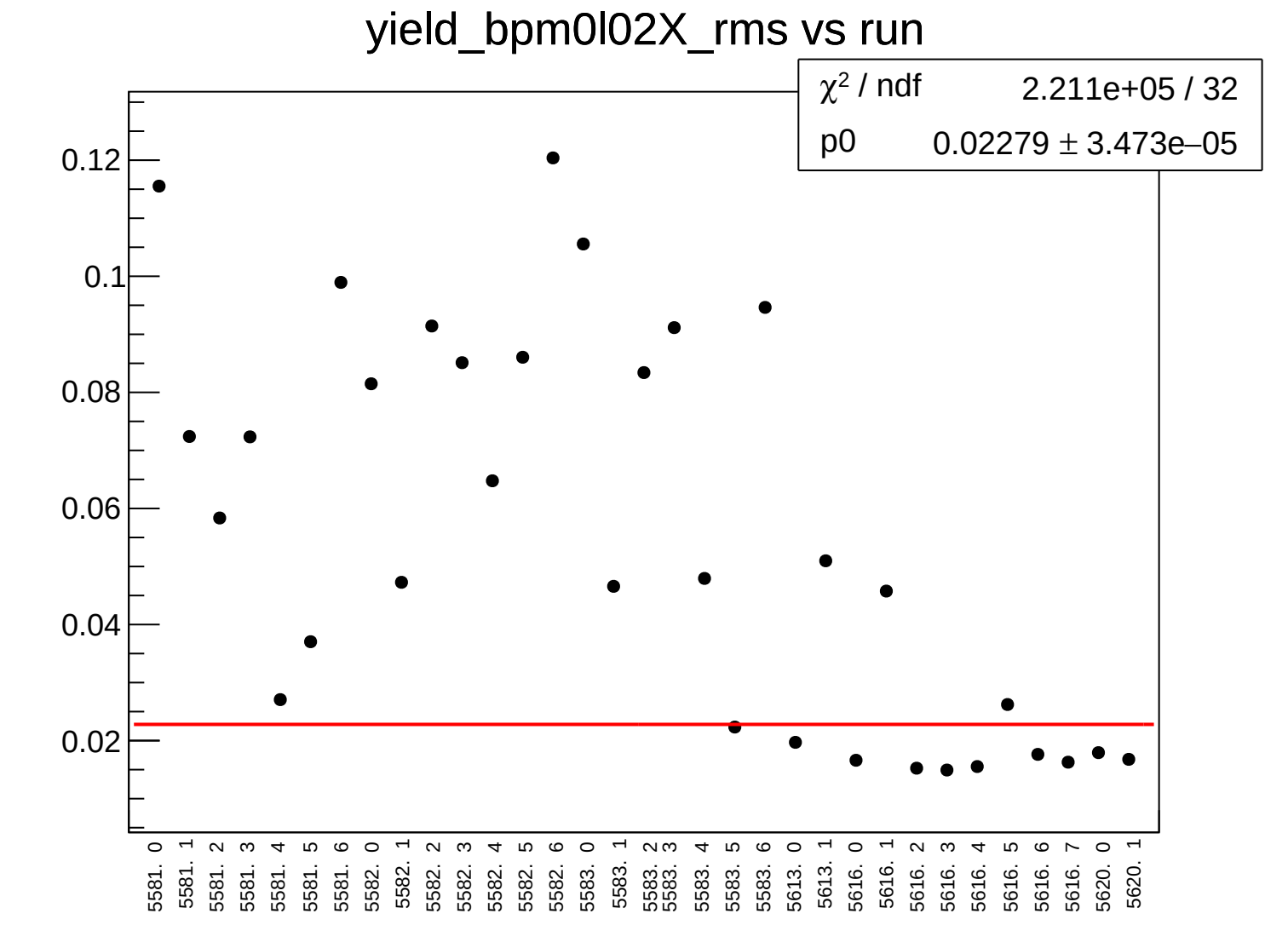

yield_bpm0l01Y_mean vs run
χ² / ndf 2.366e+07 / 32
p0 −6.378 ± 1.571e−05
−6.25
−6.3
−6.35
−6.4
−6.45
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −42.16
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500

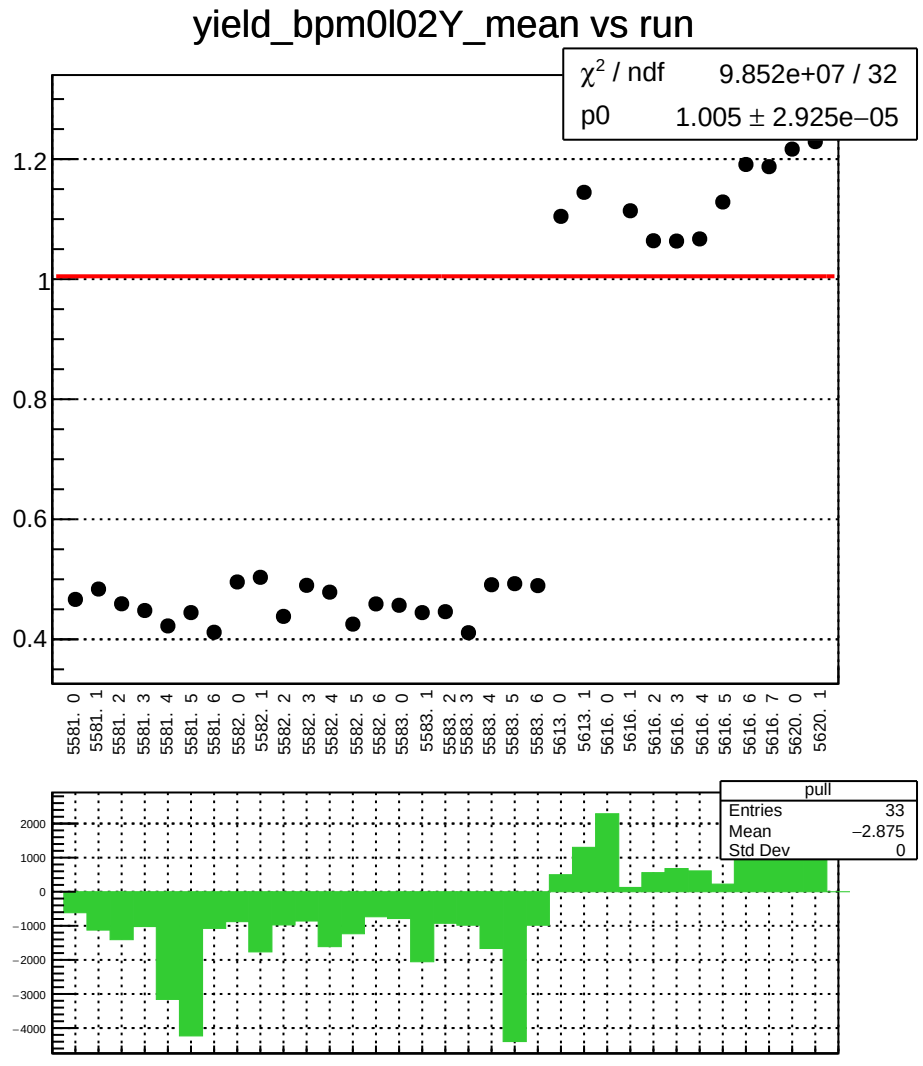

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

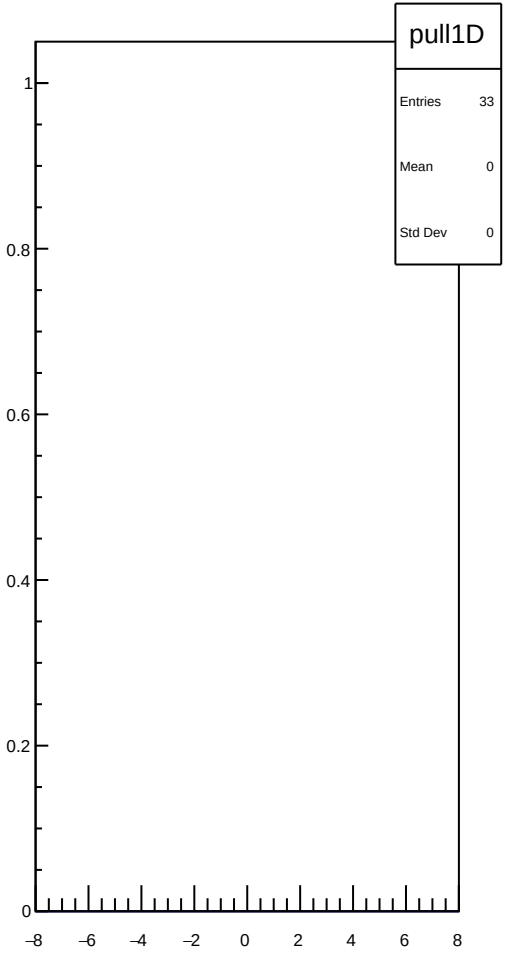

yield_bpm0l01Y_rms vs run
χ² / ndf 1.236e+05 / 32
p0 0.008077 ± 1.111e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

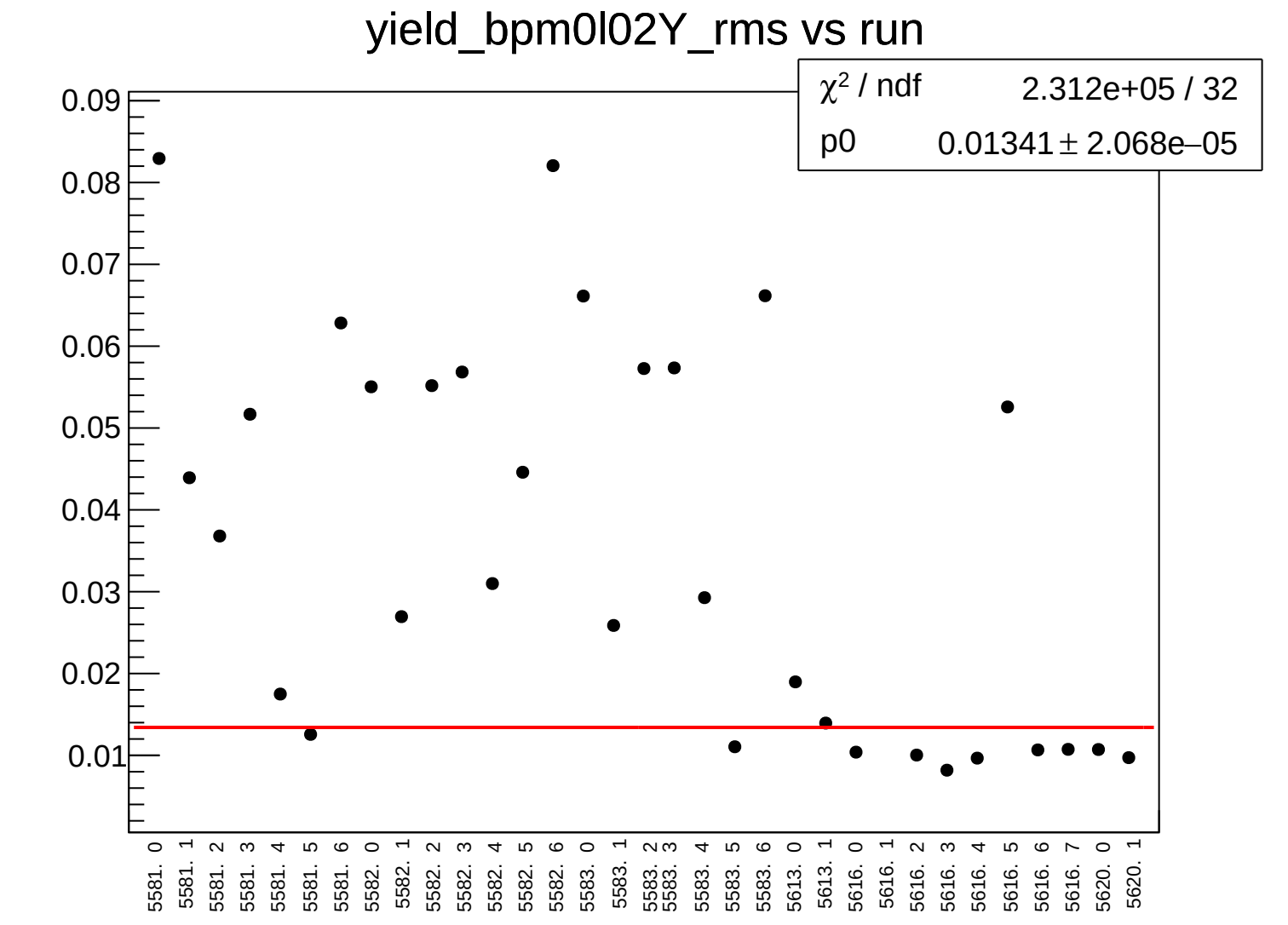

yield_bpm0l02X_mean vs run
χ² / ndf 6.906e+06 / 32
p0 −0.4464 ± 4.911e−05
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.3751
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

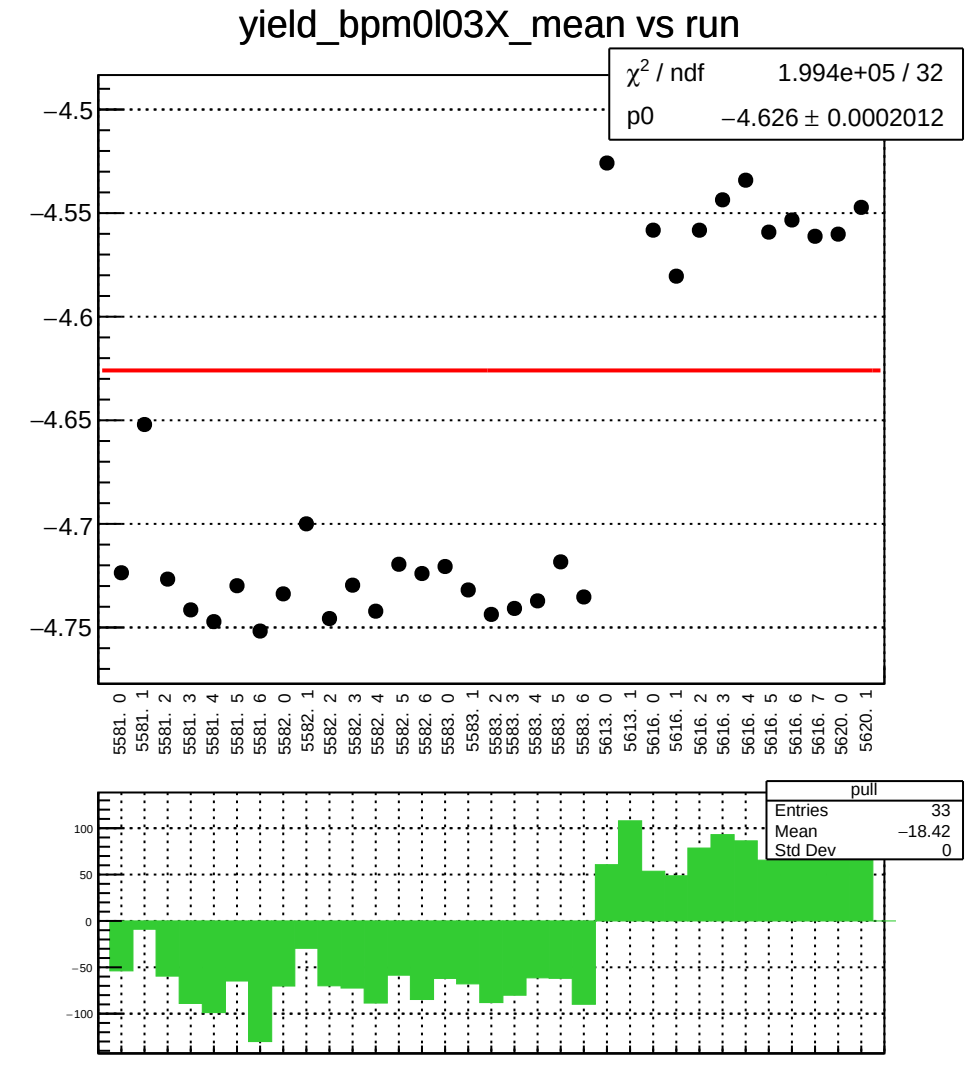

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

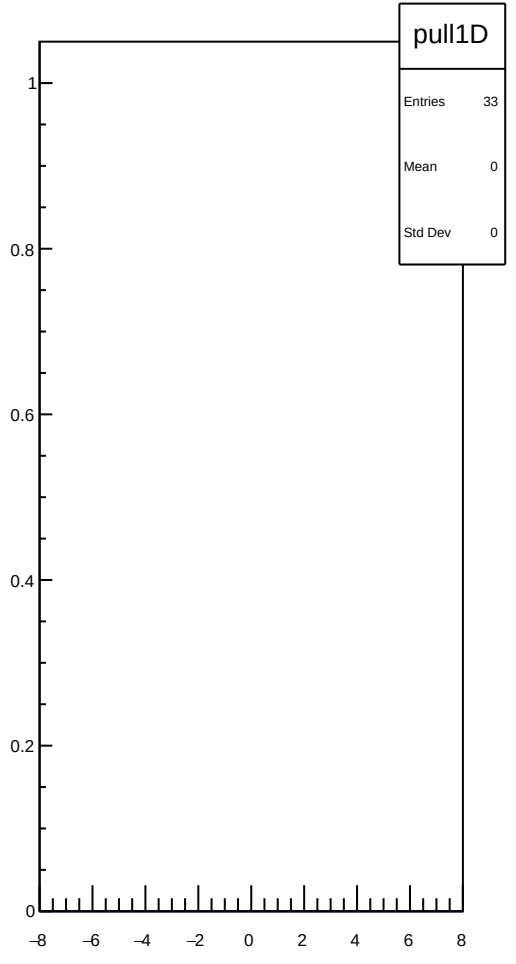

yield_bpm0l02X_rms vs run
χ² / ndf 2.211e+05 / 32
p0 0.02279 ± 3.473e−05
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

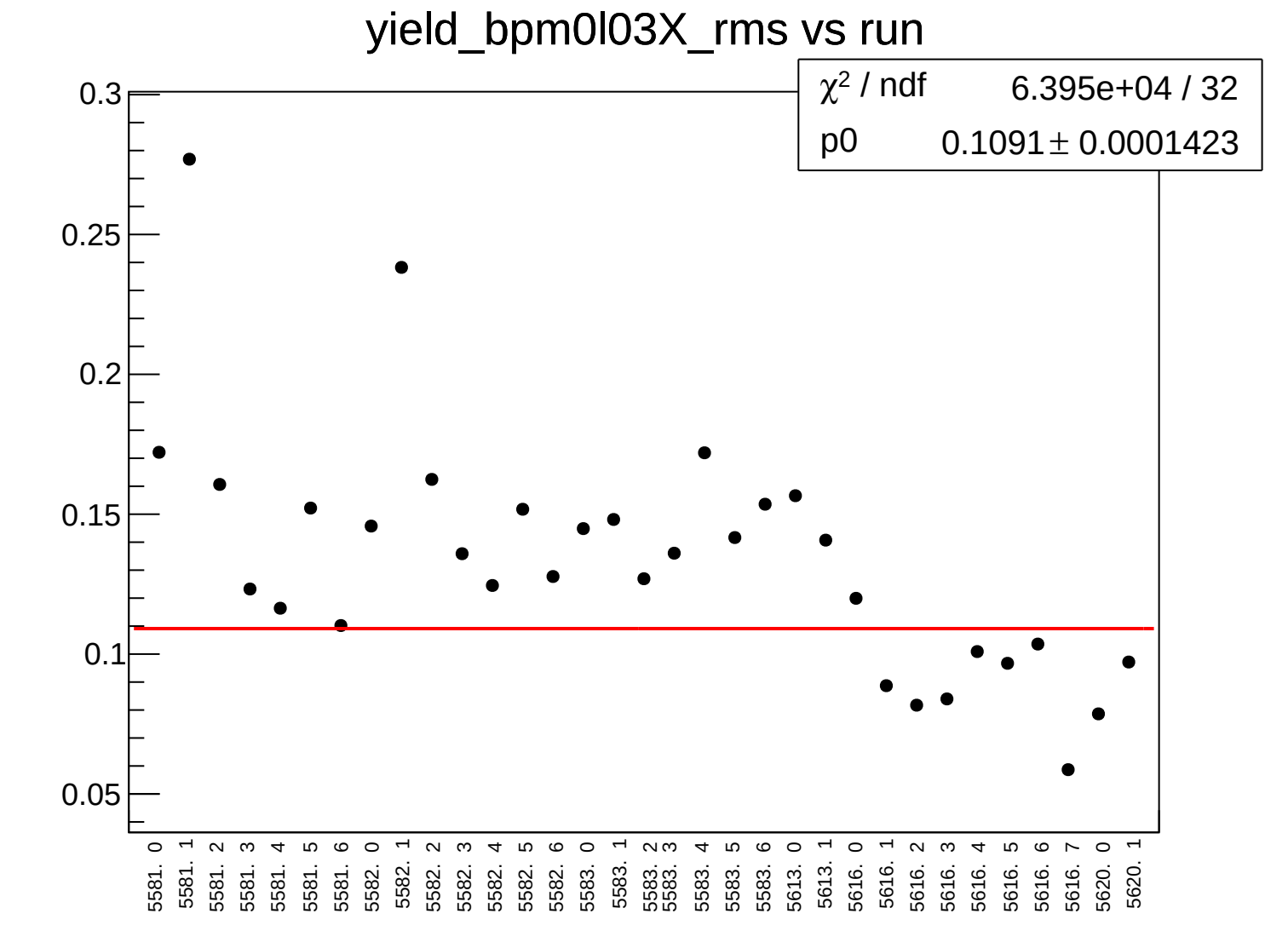

yield_bpm0l02Y_mean vs run
χ² / ndf 9.852e+07 / 32
p0 1.005 ± 2.925e−05
1.2
1
0.8
0.6
0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2.875
Std Dev 0
2000
1000
0
−1000
−2000
−3000
−4000

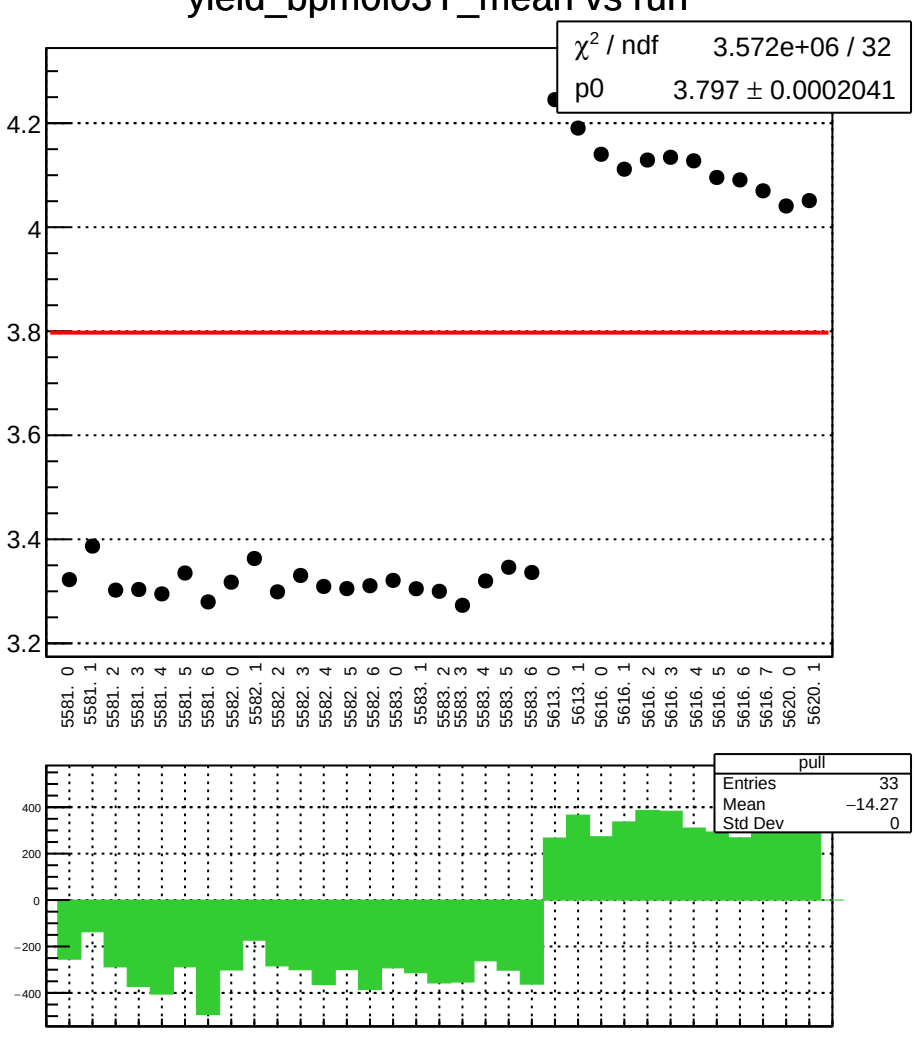

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

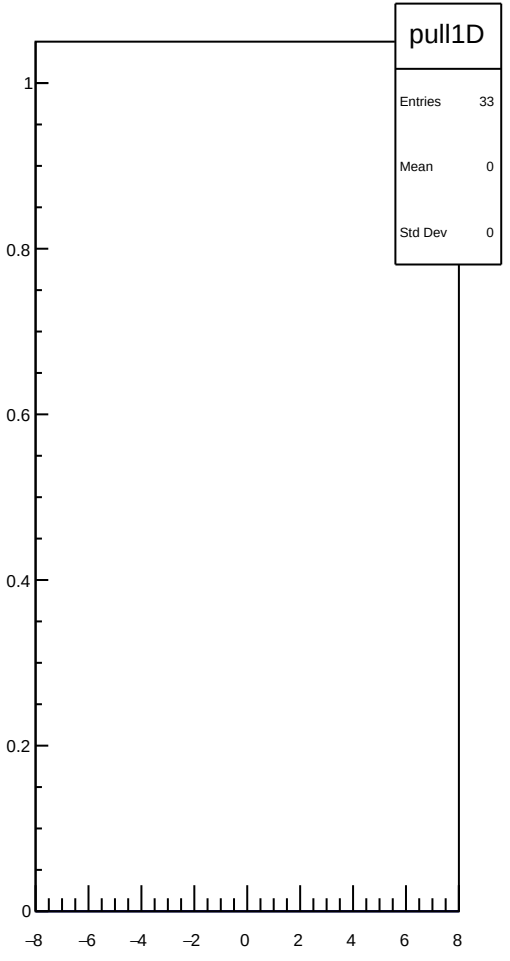

yield_bpm0l02Y_rms vs run
χ² / ndf 2.312e+05 / 32
p0 0.01341 ± 2.068e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

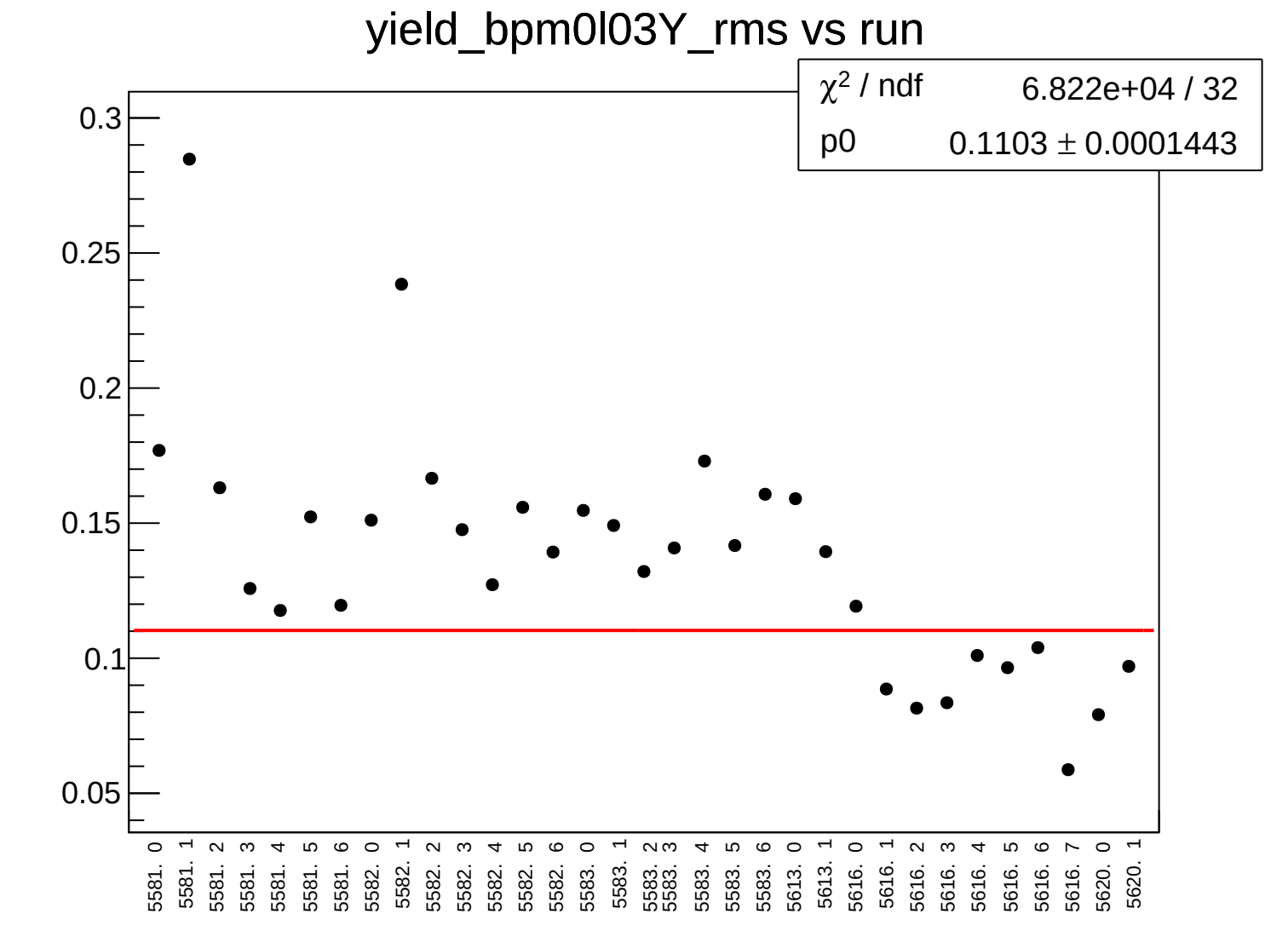

yield_bpm0l03X_mean vs run
χ² / ndf 1.994e+05 / 32
p0 −4.626 ± 0.0002012
−4.5
−4.55
−4.6
−4.65
−4.7
−4.75
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −18.42
Std Dev 0
100
50
0
−50
−100

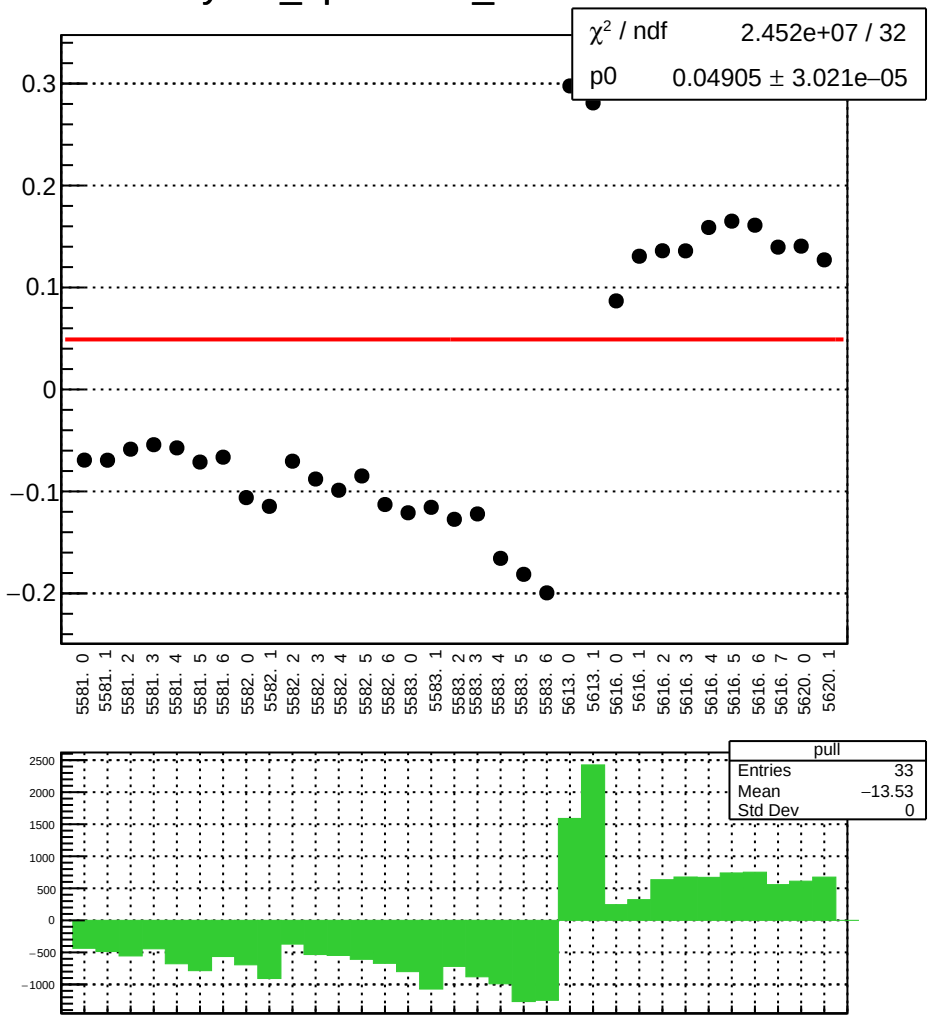

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

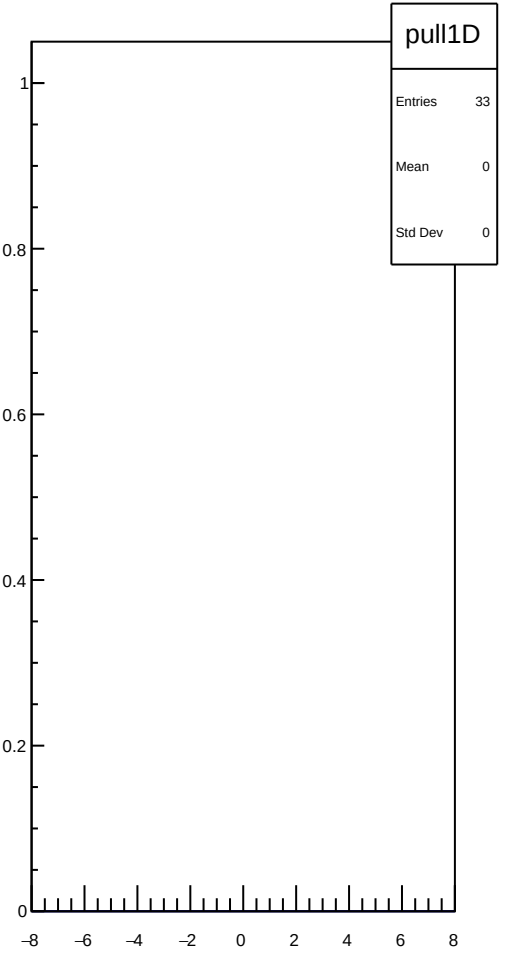

yield_bpm0l03X_rms vs run
χ² / ndf 6.395e+04 / 32
p0 0.1091 ± 0.0001423
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

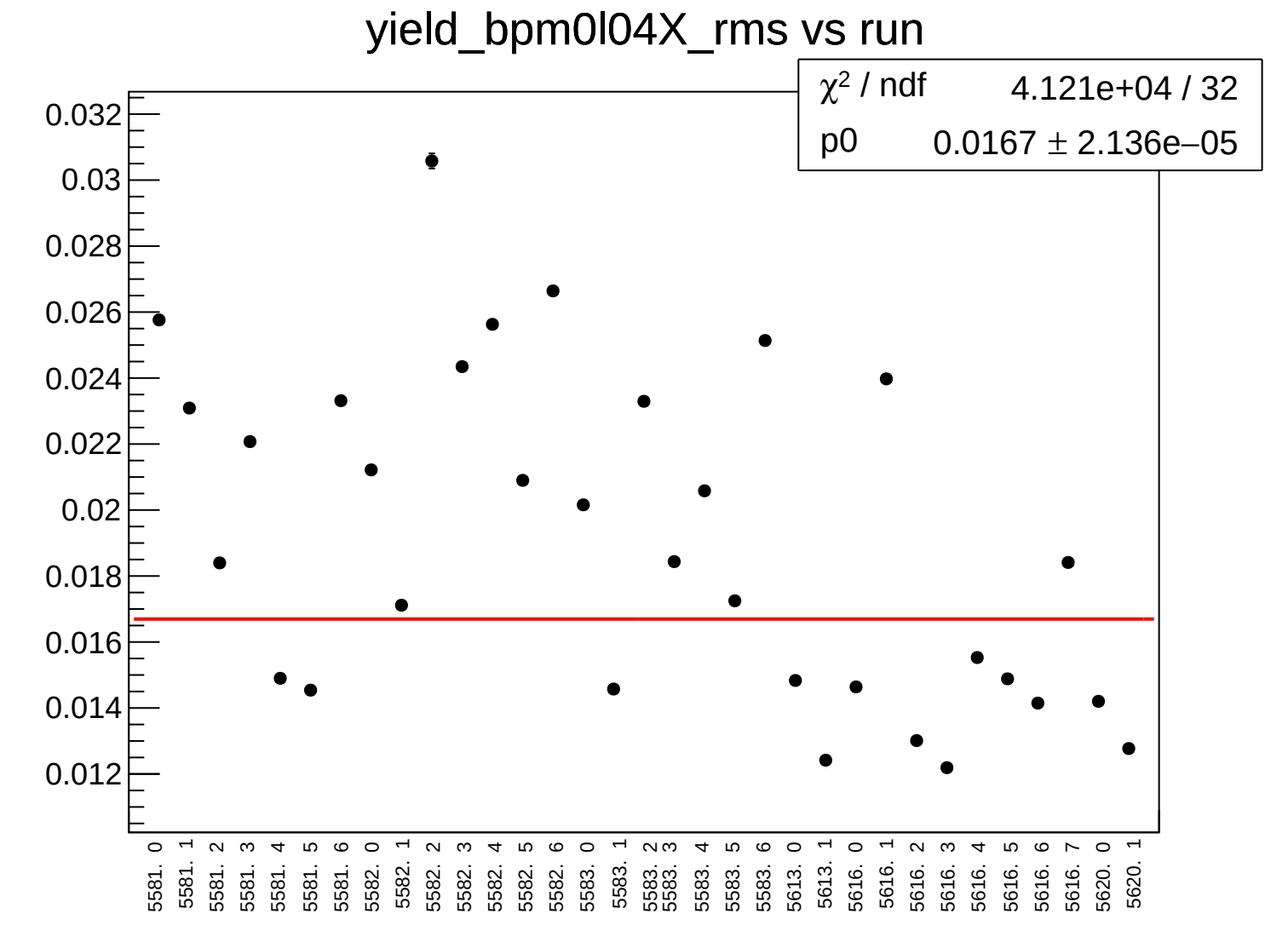

yield_bpm0l03Y_mean vs run
χ² / ndf 3.572e+06 / 32
p0 3.797 ± 0.0002041
4.2
4
3.8
3.6
3.4
3.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −14.27
Std Dev 0
400
200
0
−200
−400

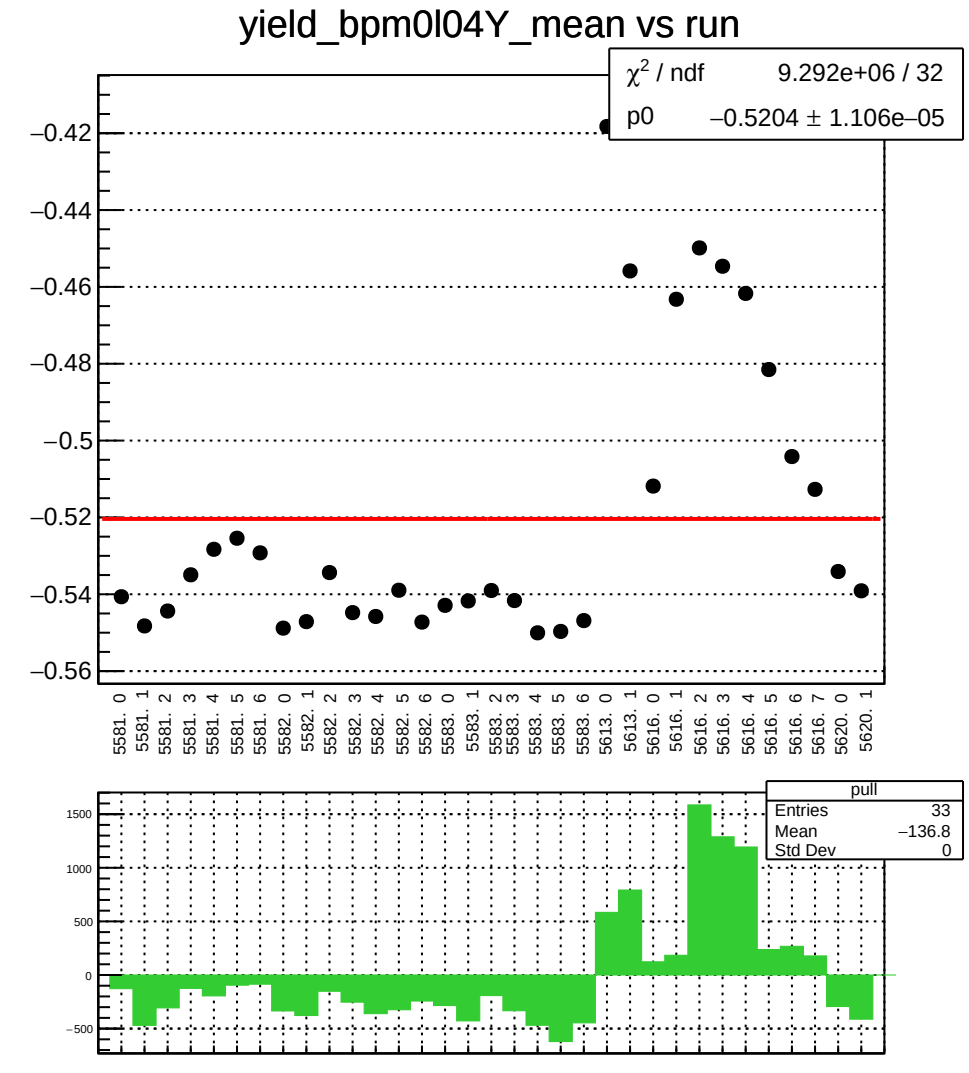

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

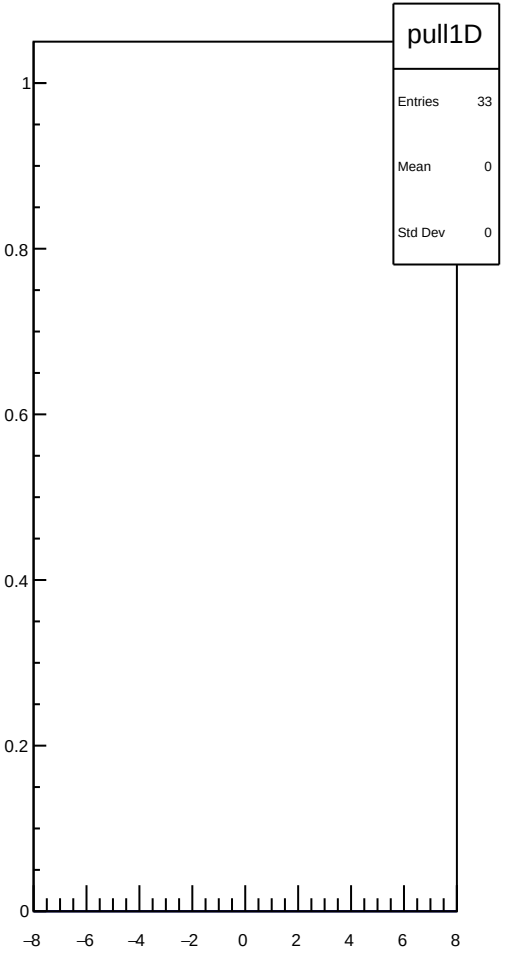

yield_bpm0l03Y_rms vs run
χ² / ndf 6.822e+04 / 32
p0 0.1103 ± 0.0001443
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

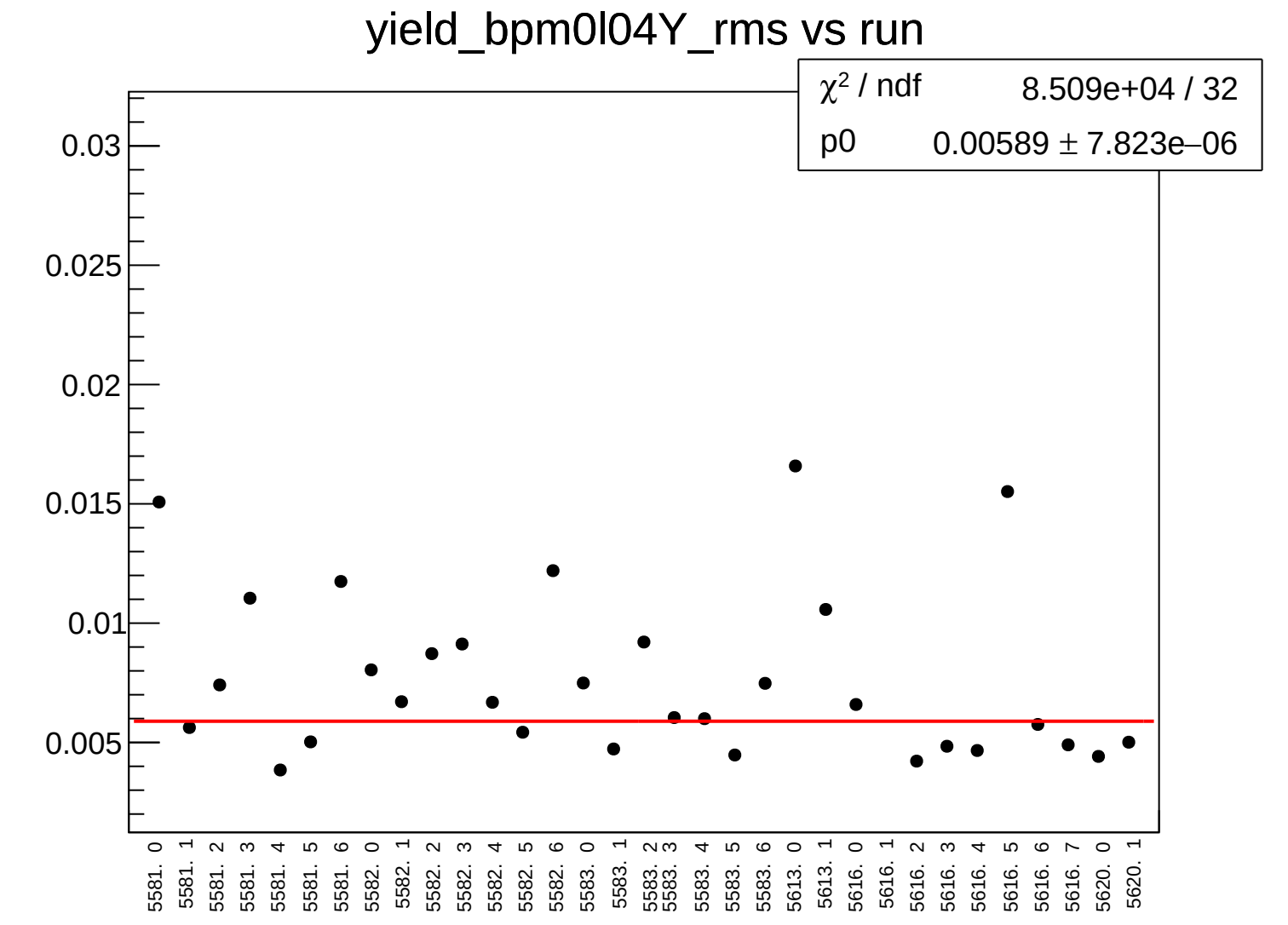

yield_bpm0l04X_mean vs run
χ² / ndf 2.452e+07 / 32
p0 0.04905 ± 3.021e−05
0.3
0.2
0.1
0
−0.1
−0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −13.53
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000

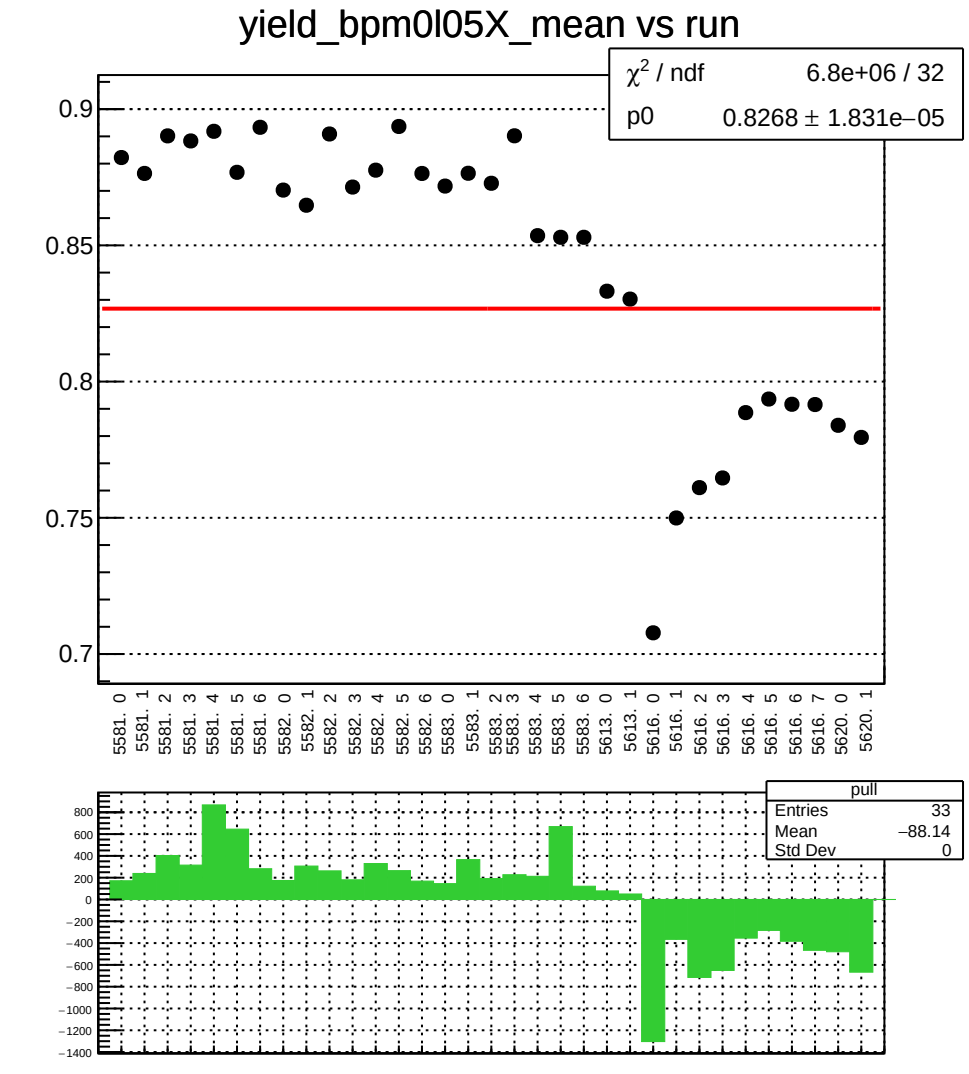

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

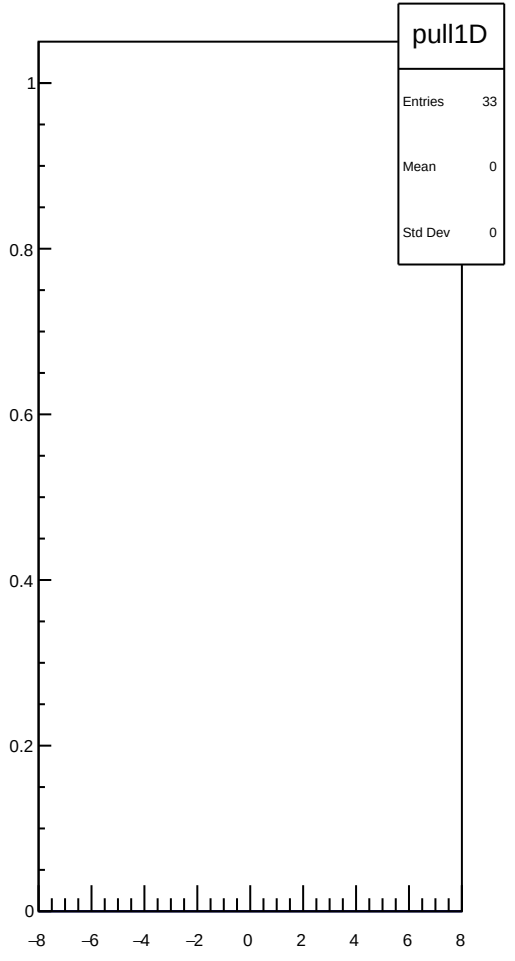

yield_bpm0l04X_rms vs run
χ² / ndf 4.121e+04 / 32
p0 0.0167 ± 2.136e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

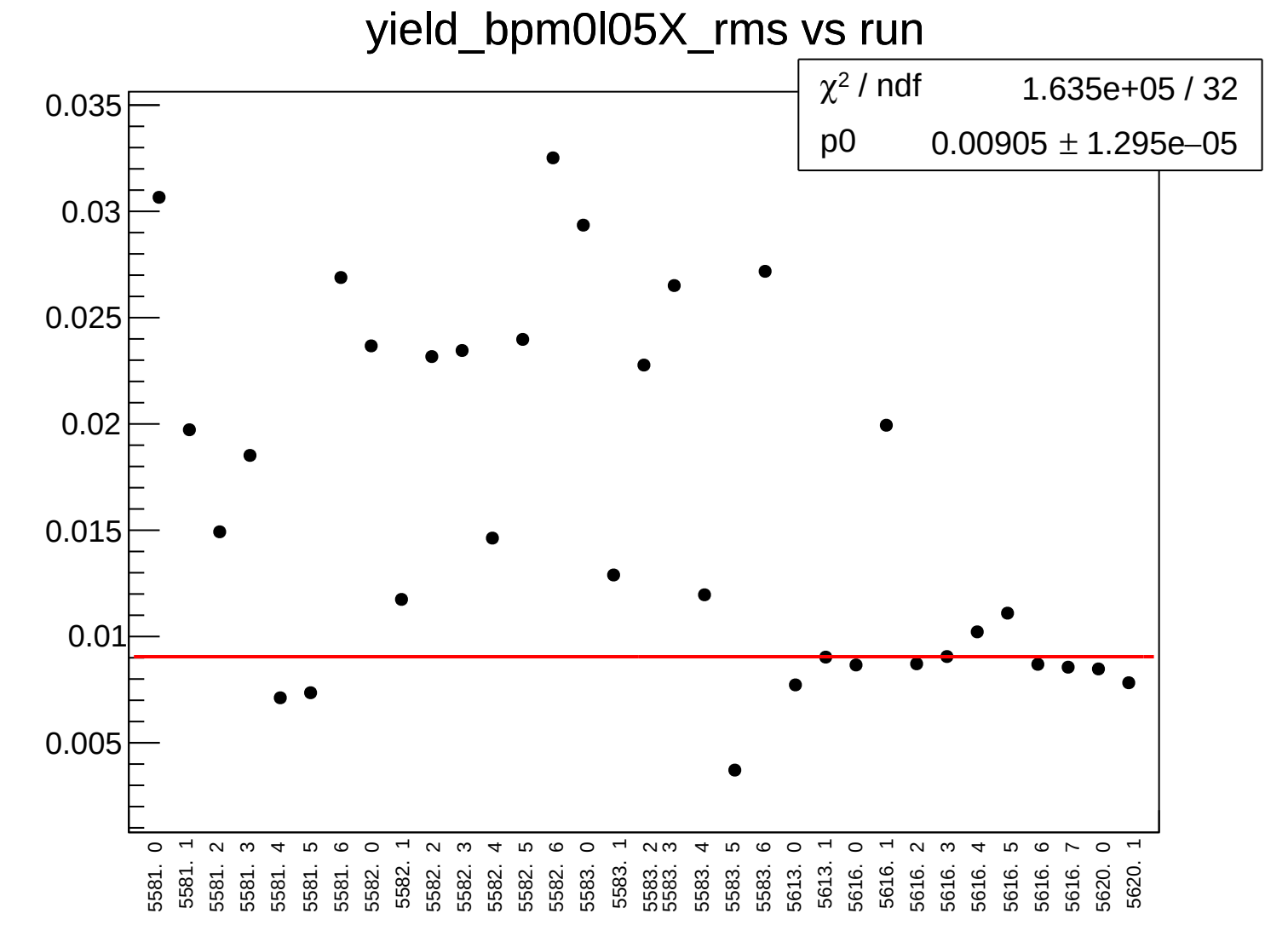

yield_bpm0l04Y_mean vs run
χ² / ndf 9.292e+06 / 32
p0 −0.5204 ± 1.106e−05
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
−0.54
−0.56
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −136.8
Std Dev 0
1500
1000
500
0
−500

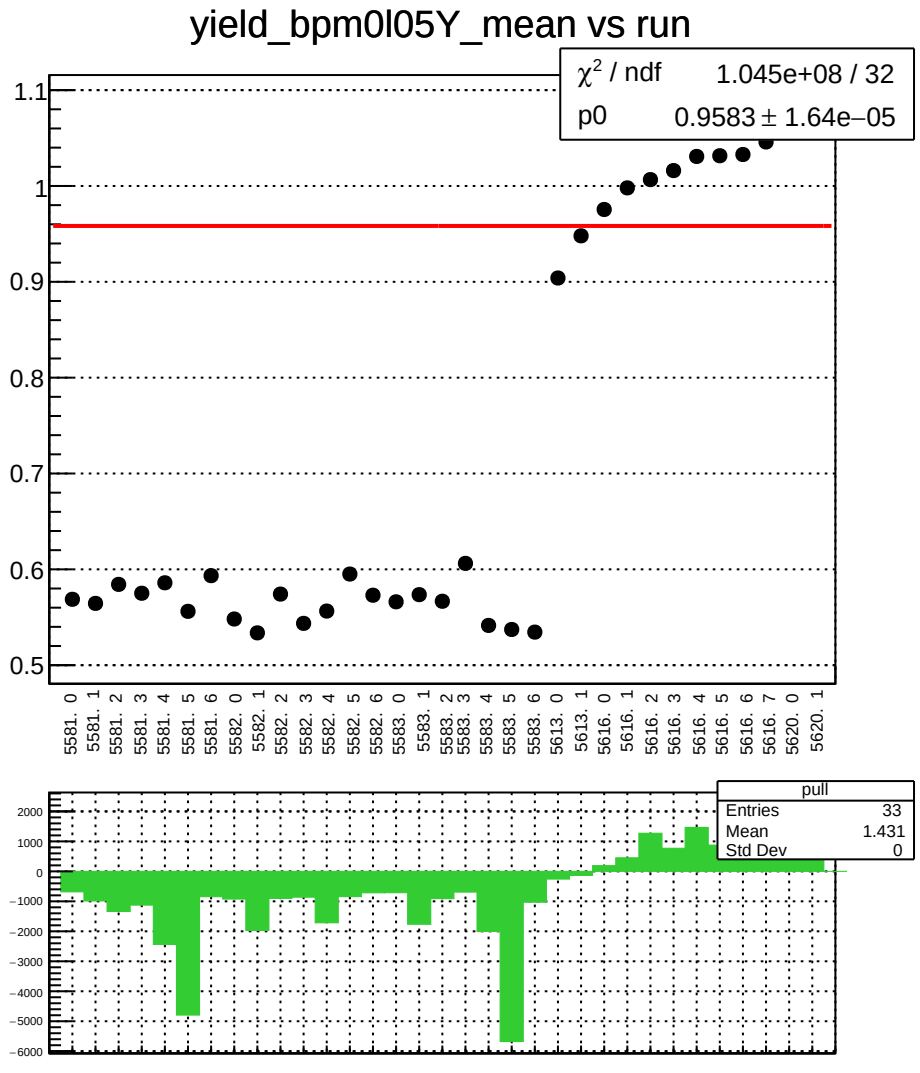

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

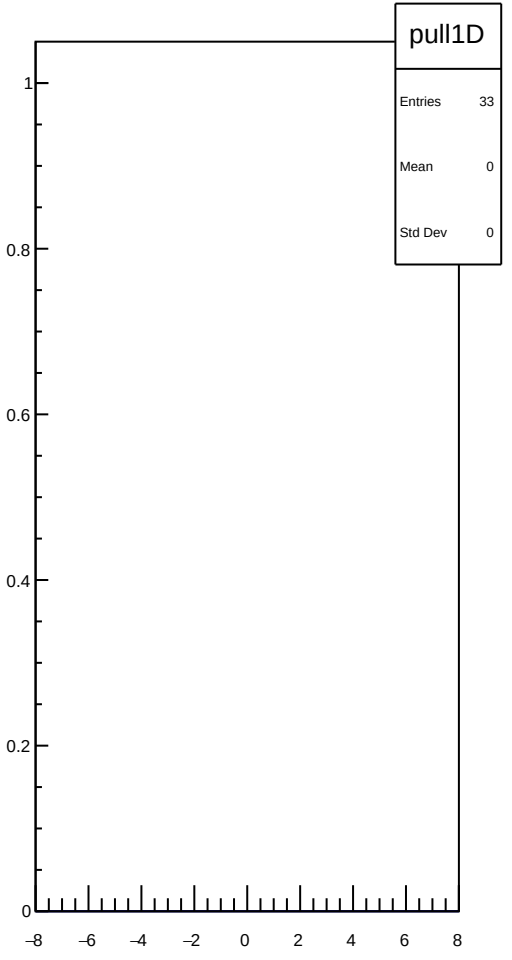

yield_bpm0l04Y_rms vs run
χ² / ndf 8.509e+04 / 32
p0 0.00589 ± 7.823e−06
0.03
0.025
0.02
0.015
0.01
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

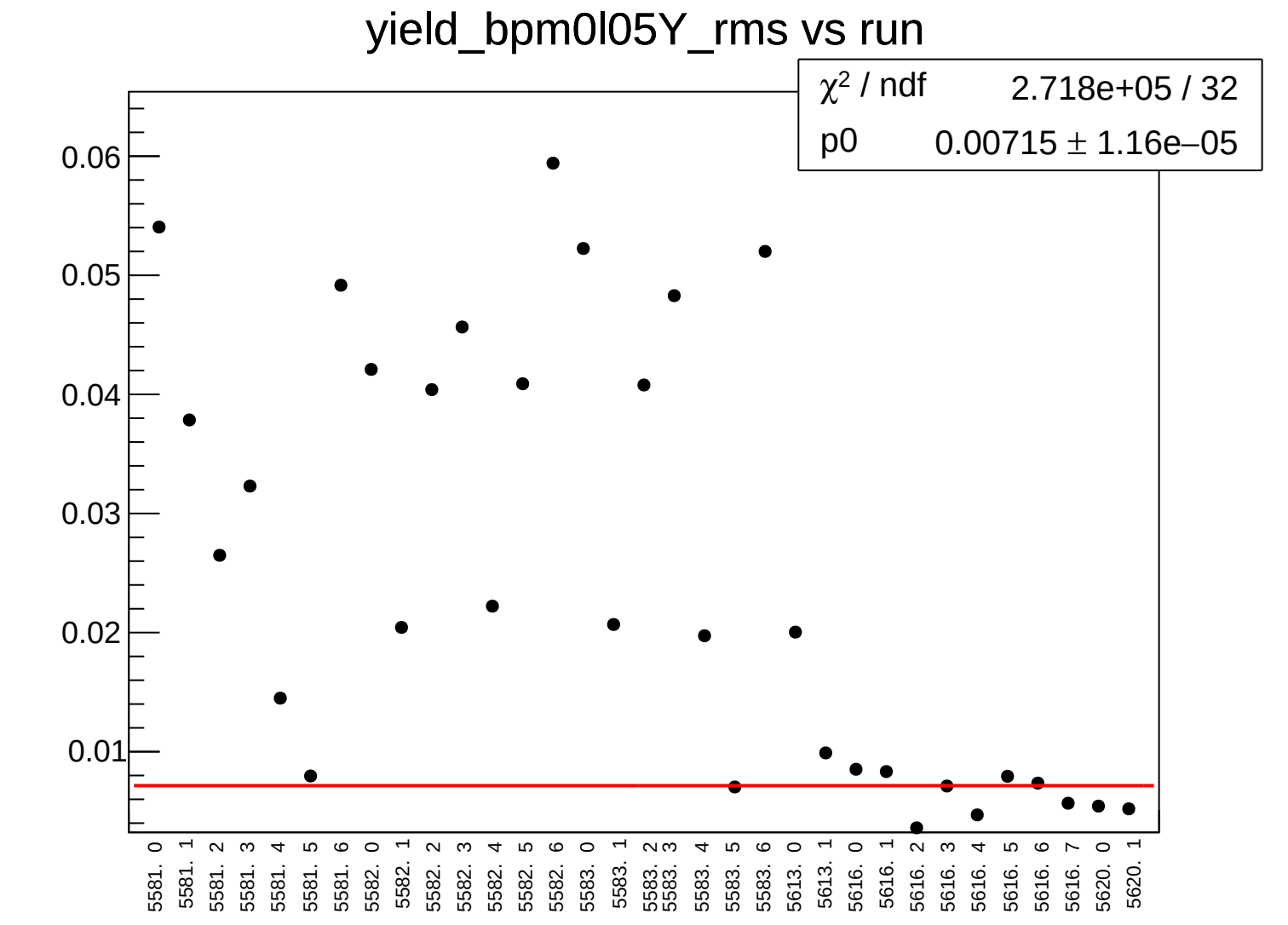

yield_bpm0l05X_mean vs run
χ² / ndf 6.8e+06 / 32
p0 0.8268 ± 1.831e−05
0.9
0.85
0.8
0.75
0.7
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −88.14
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

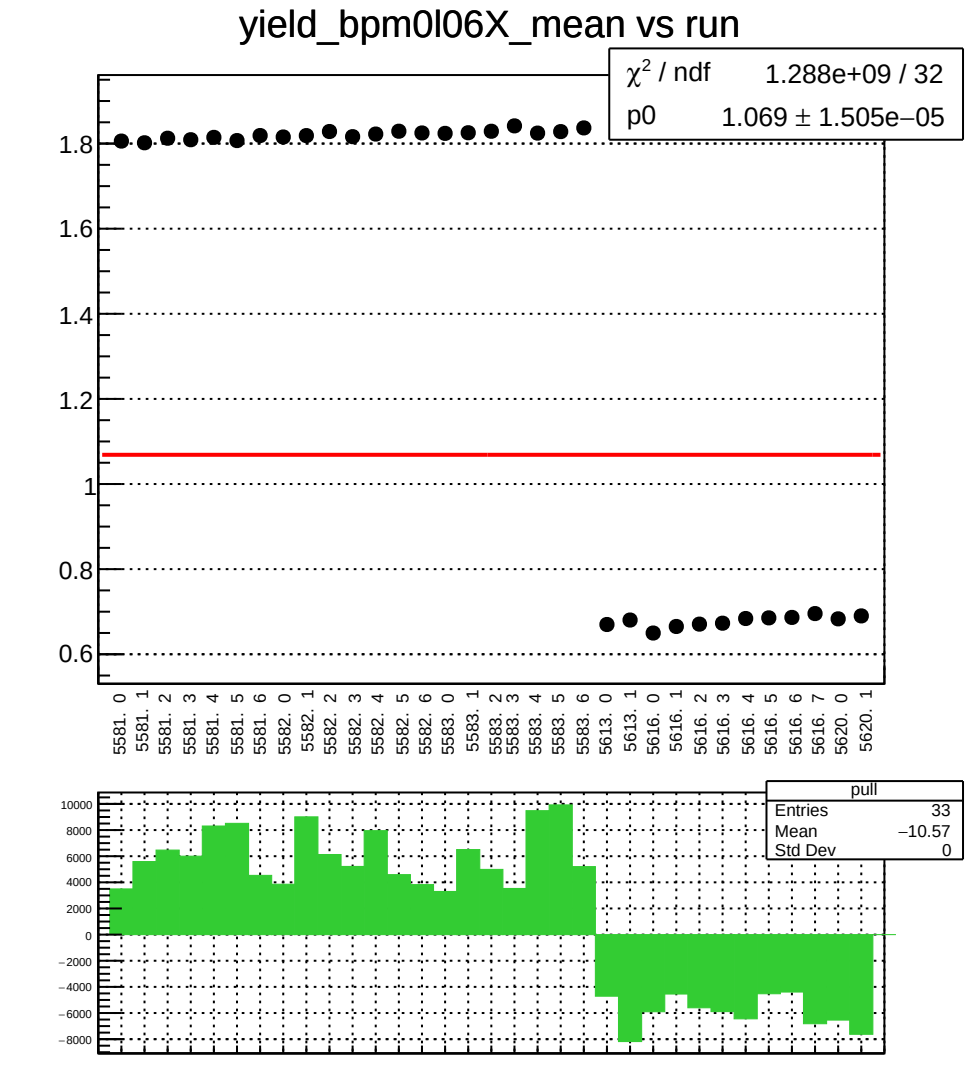

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

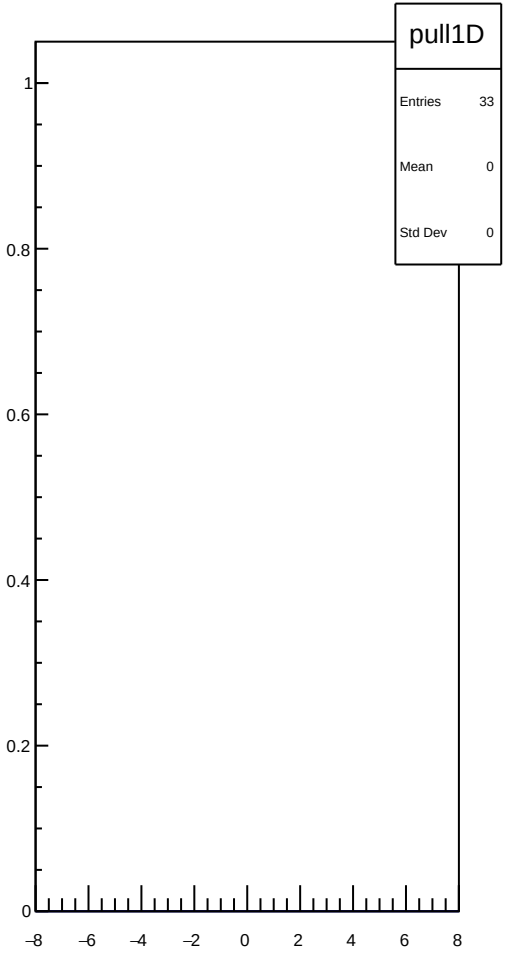

yield_bpm0l05X_rms vs run
χ² / ndf 1.635e+05 / 32
p0 0.00905 ± 1.295e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

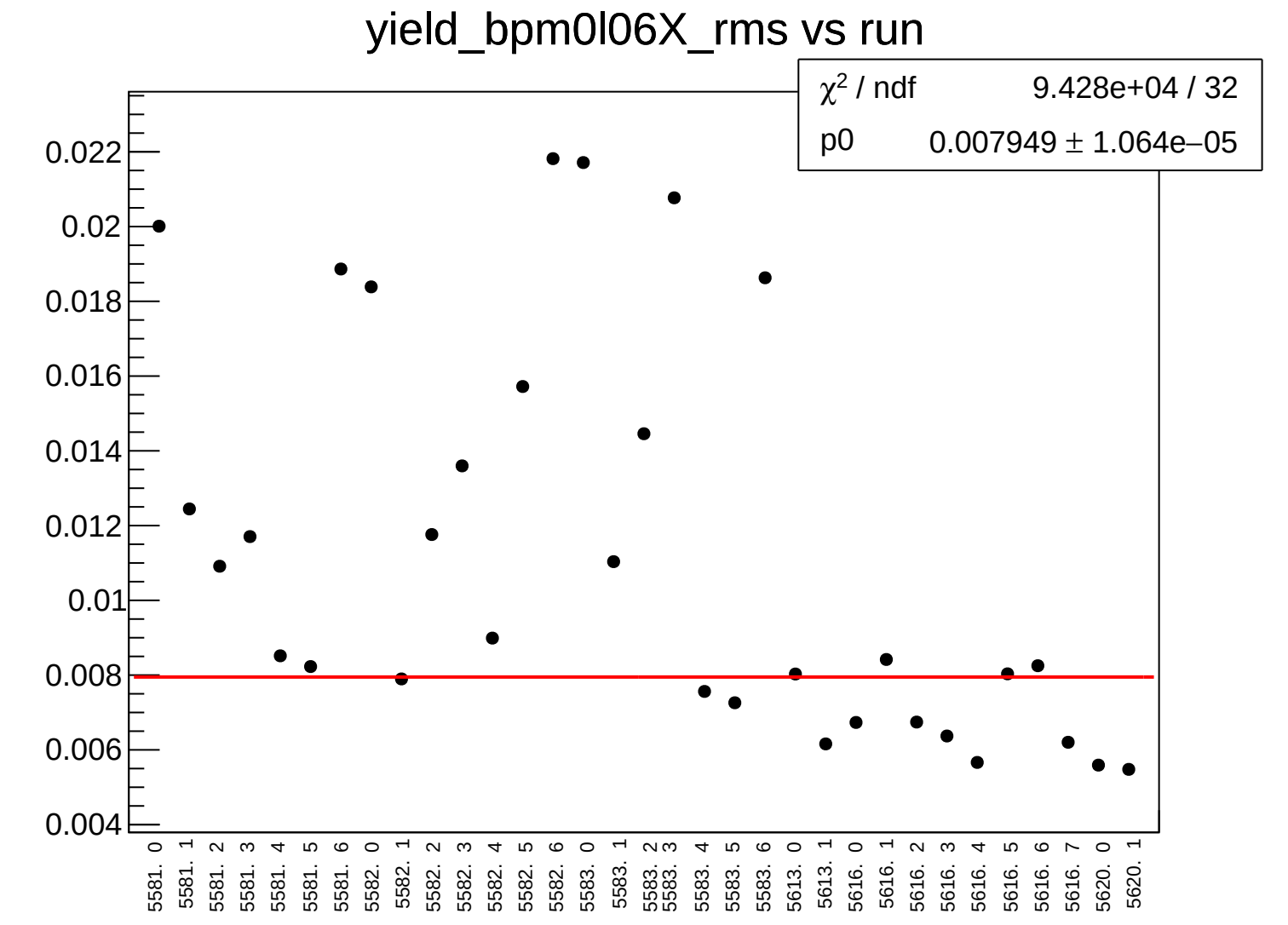

yield_bpm0l05Y_mean vs run
χ² / ndf 1.045e+08 / 32
p0 0.9583 ± 1.64e−05
1.1
1
0.9
0.8
0.7
0.6
0.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 1.431
Std Dev 0
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000

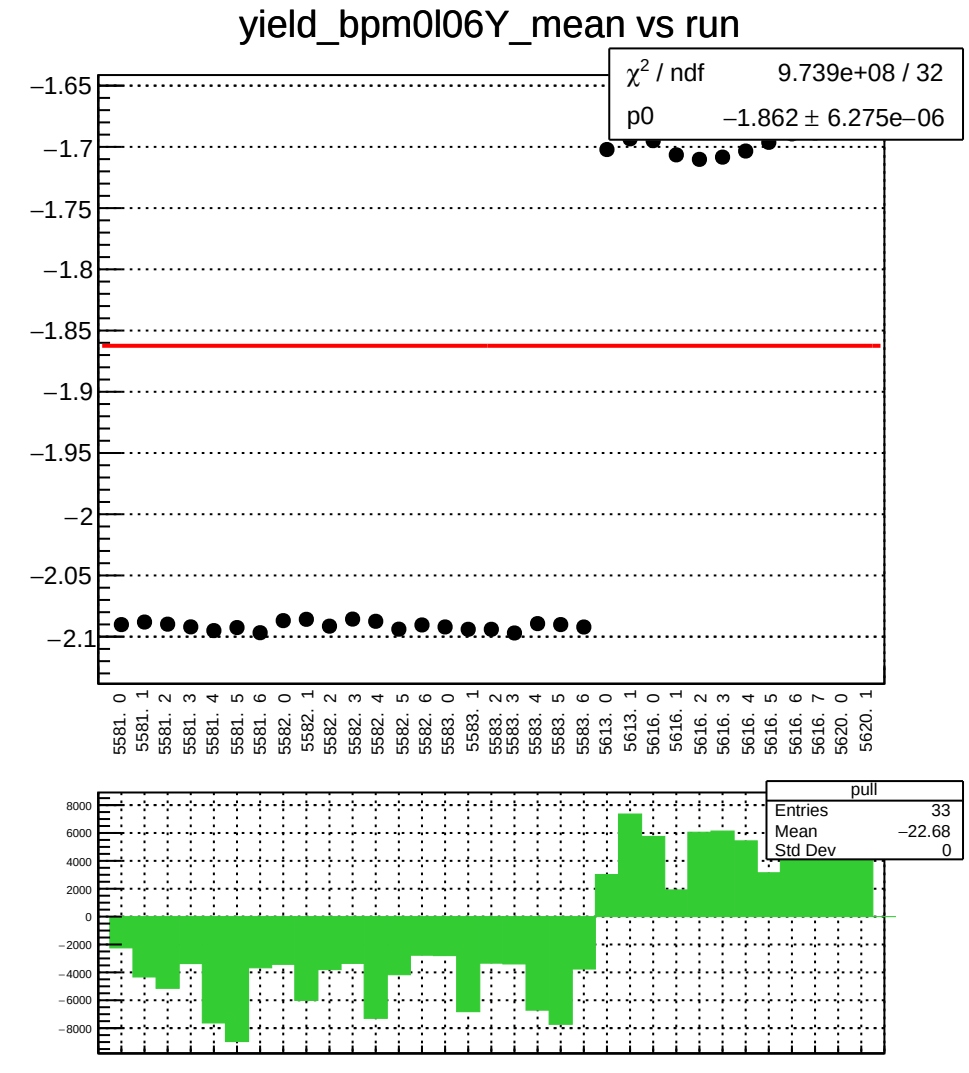

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

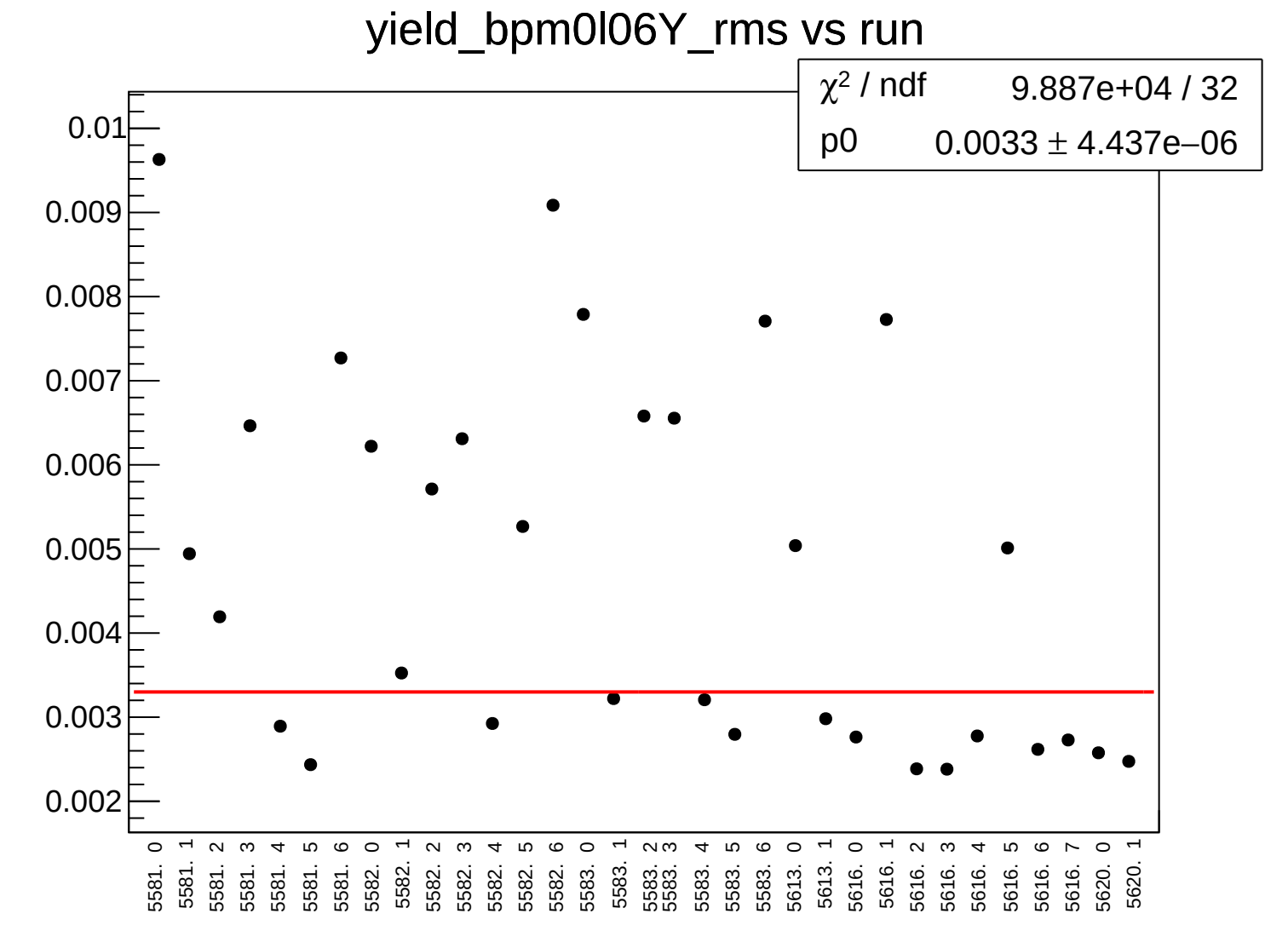

yield_bpm0l05Y_rms vs run
χ² / ndf 2.718e+05 / 32
p0 0.00715 ± 1.16e−05
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

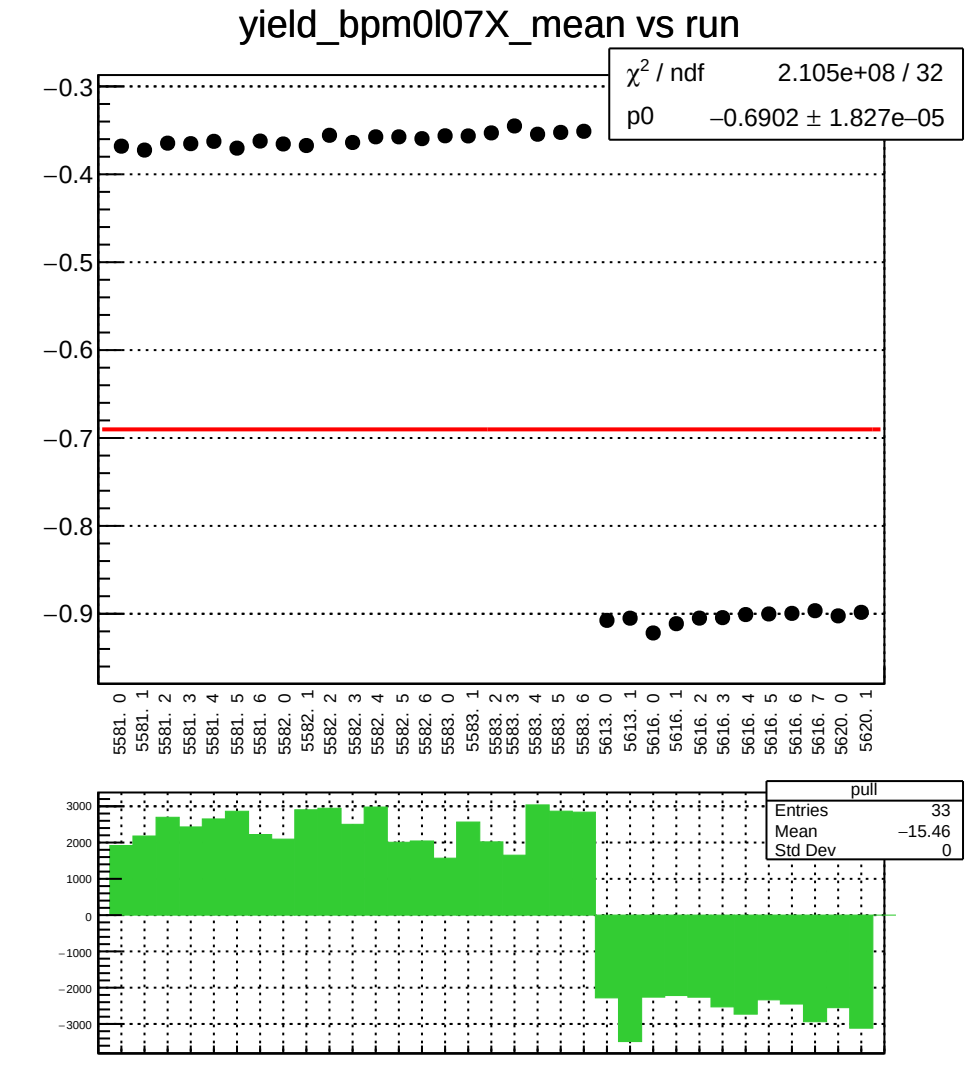

yield_bpm0l06X_mean vs run
χ² / ndf 1.288e+09 / 32
p0 1.069 ± 1.505e−05
1.8
1.6
1.4
1.2
1
0.8
0.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −10.57
Std Dev 0
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000

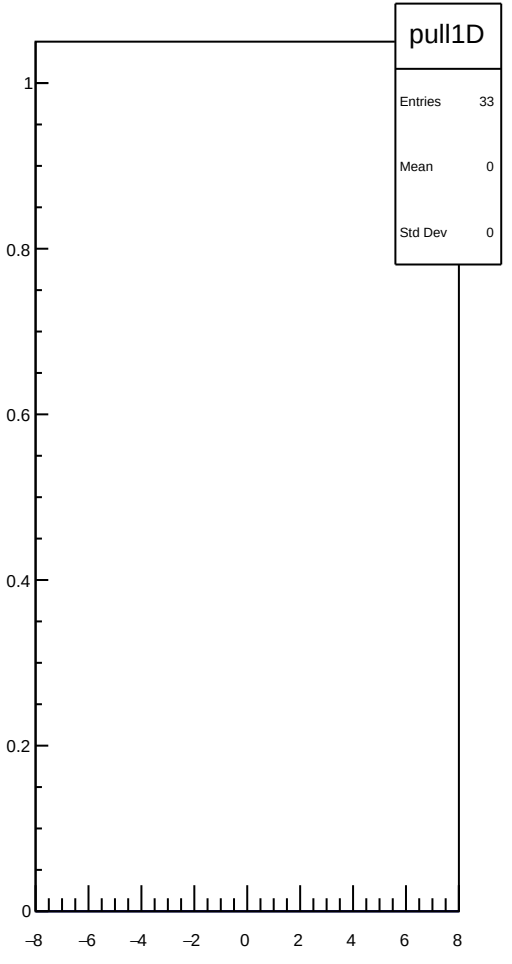

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

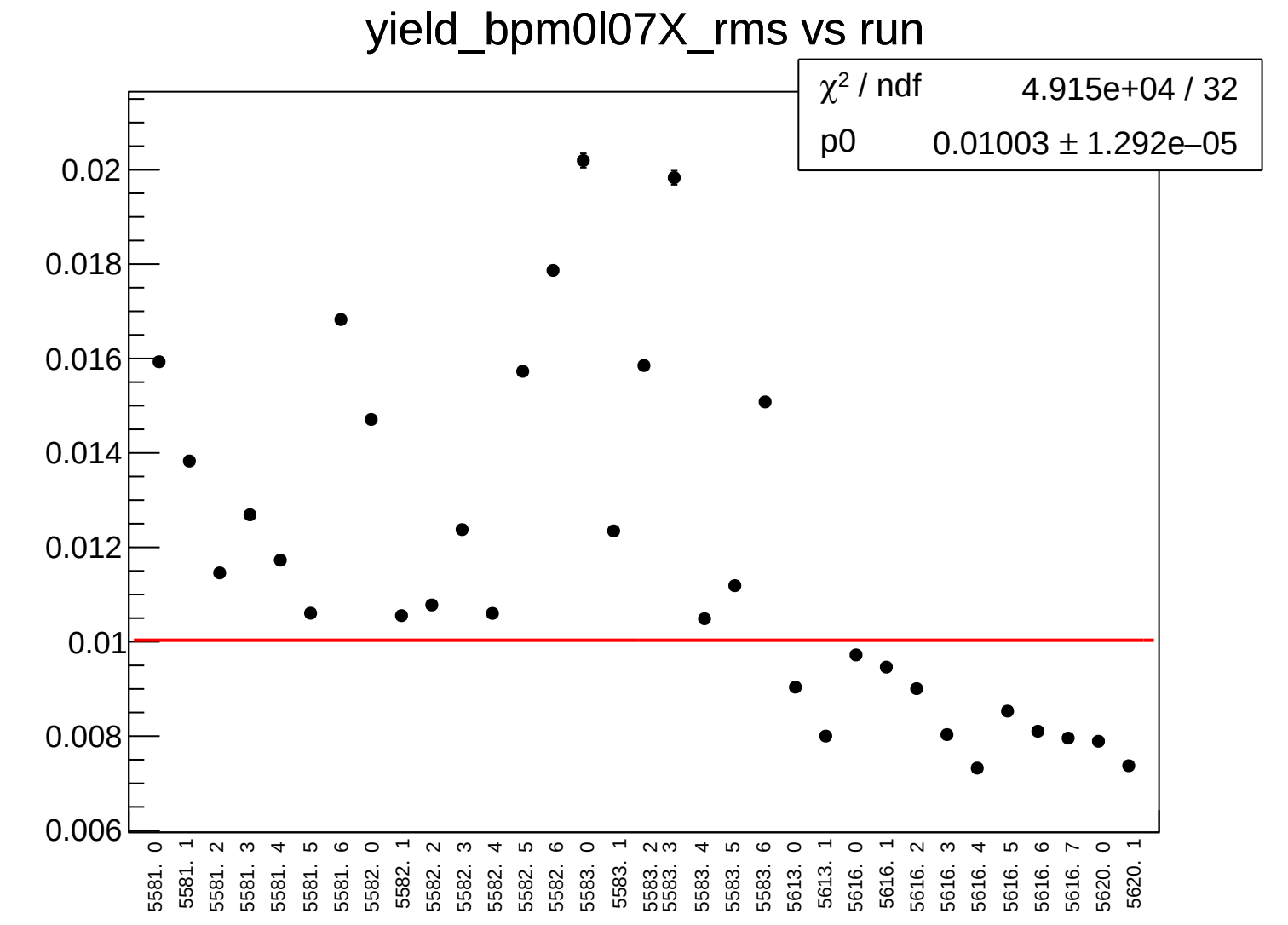

yield_bpm0l06X_rms vs run
χ² / ndf 9.428e+04 / 32
p0 0.007949 ± 1.064e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

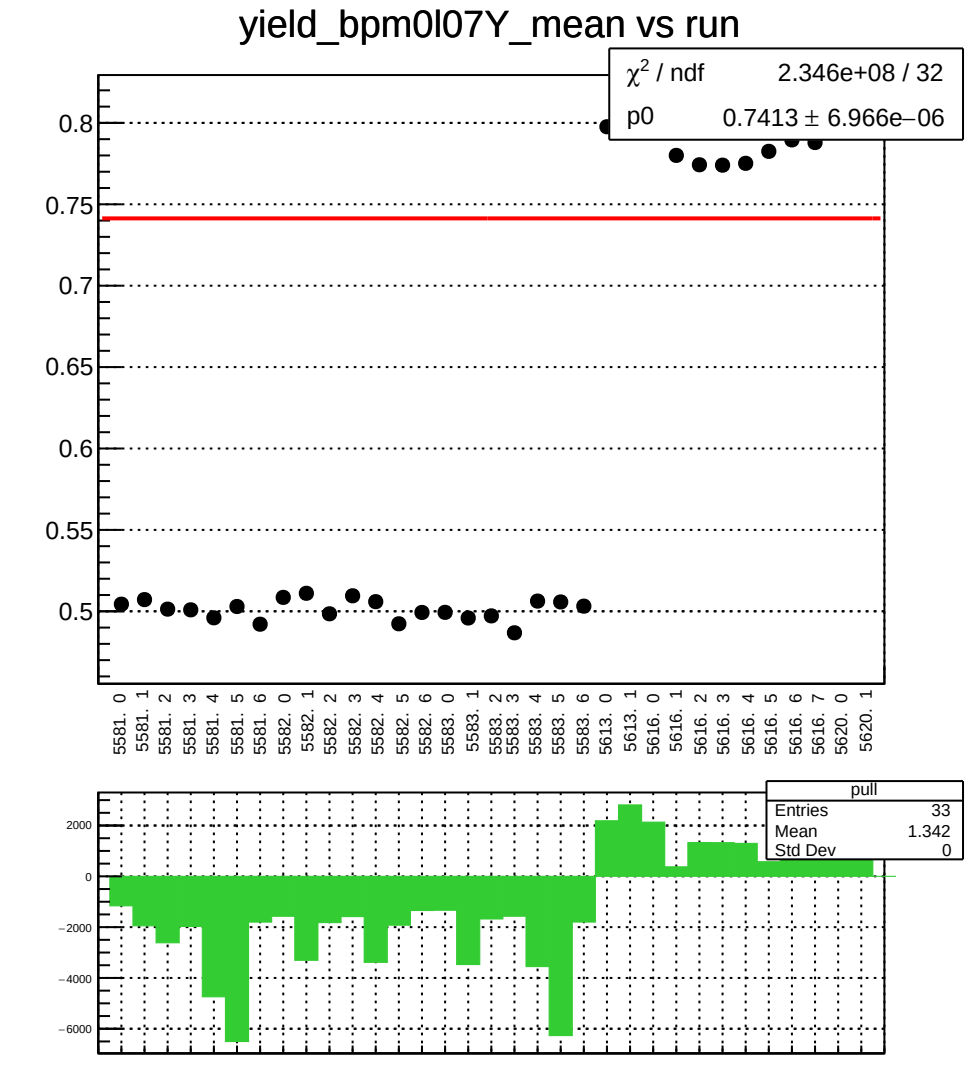

yield_bpm0l06Y_mean vs run
χ² / ndf 9.739e+08 / 32
p0 −1.862 ± 6.275e−06
−1.65
−1.7
−1.75
−1.8
−1.85
−1.9
−1.95
−2
−2.05
−2.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −22.68
Std Dev 0
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

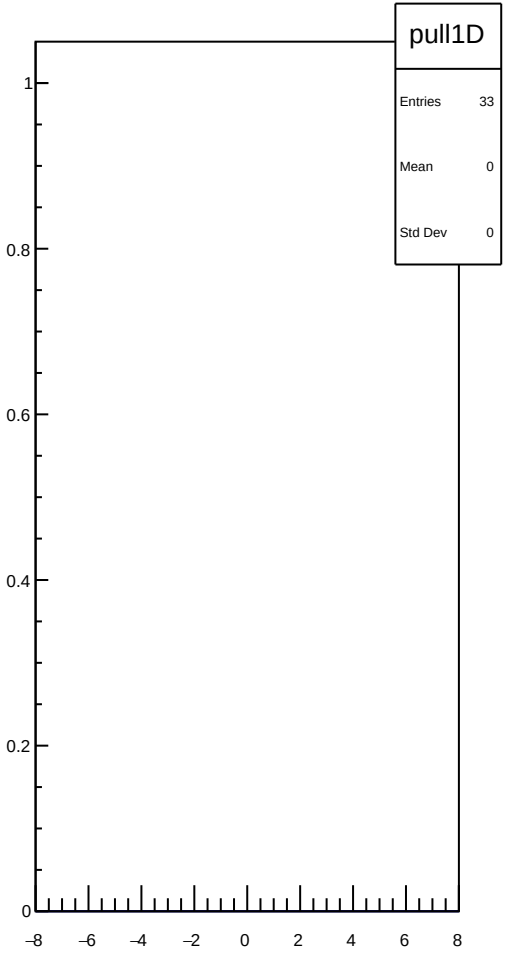

yield_bpm0l06Y_rms vs run
χ² / ndf 9.887e+04 / 32
p0 0.0033 ± 4.437e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

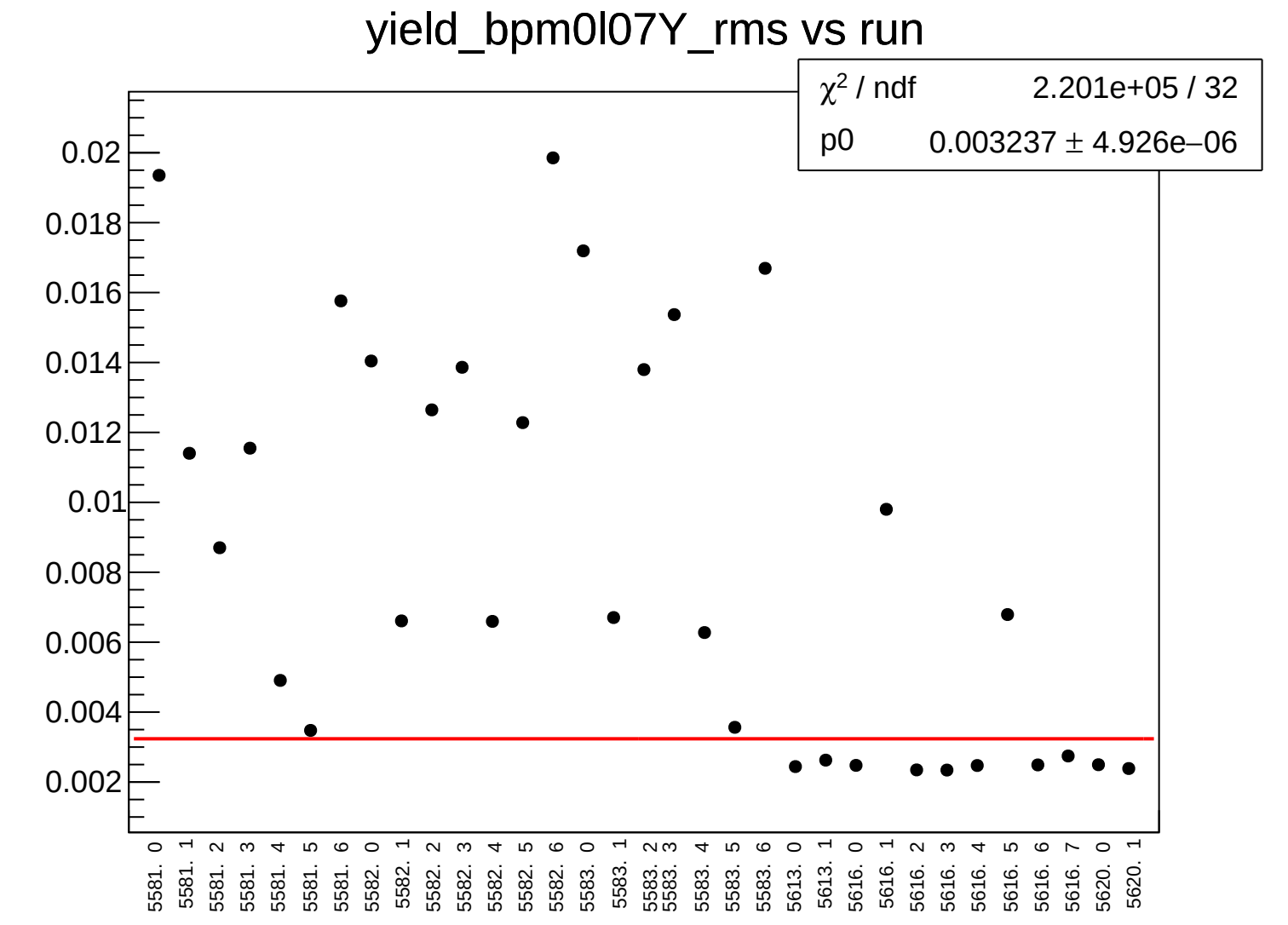

yield_bpm0l07X_mean vs run
χ² / ndf 2.105e+08 / 32
p0 −0.6902 ± 1.827e−05
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −15.46
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000

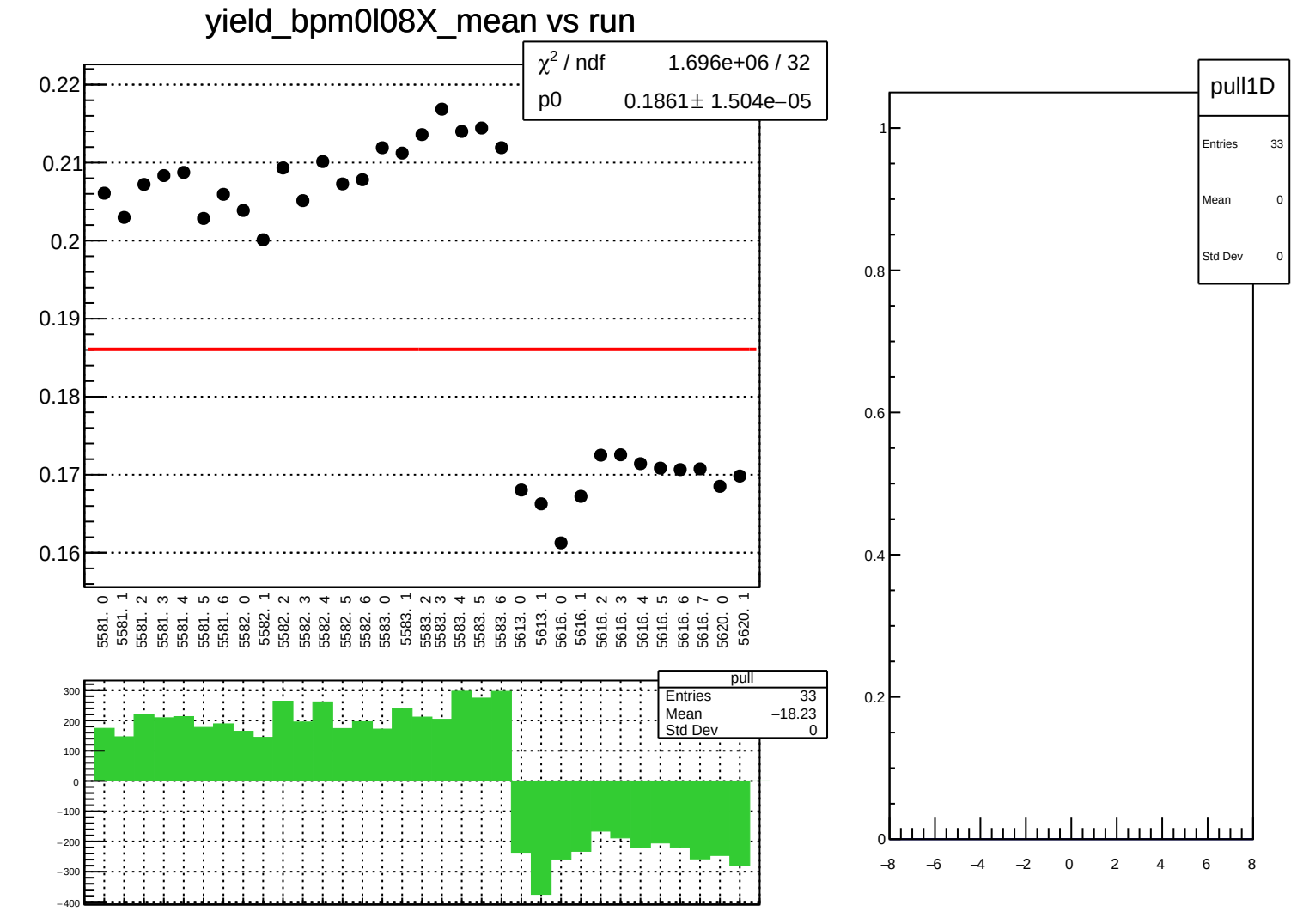

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

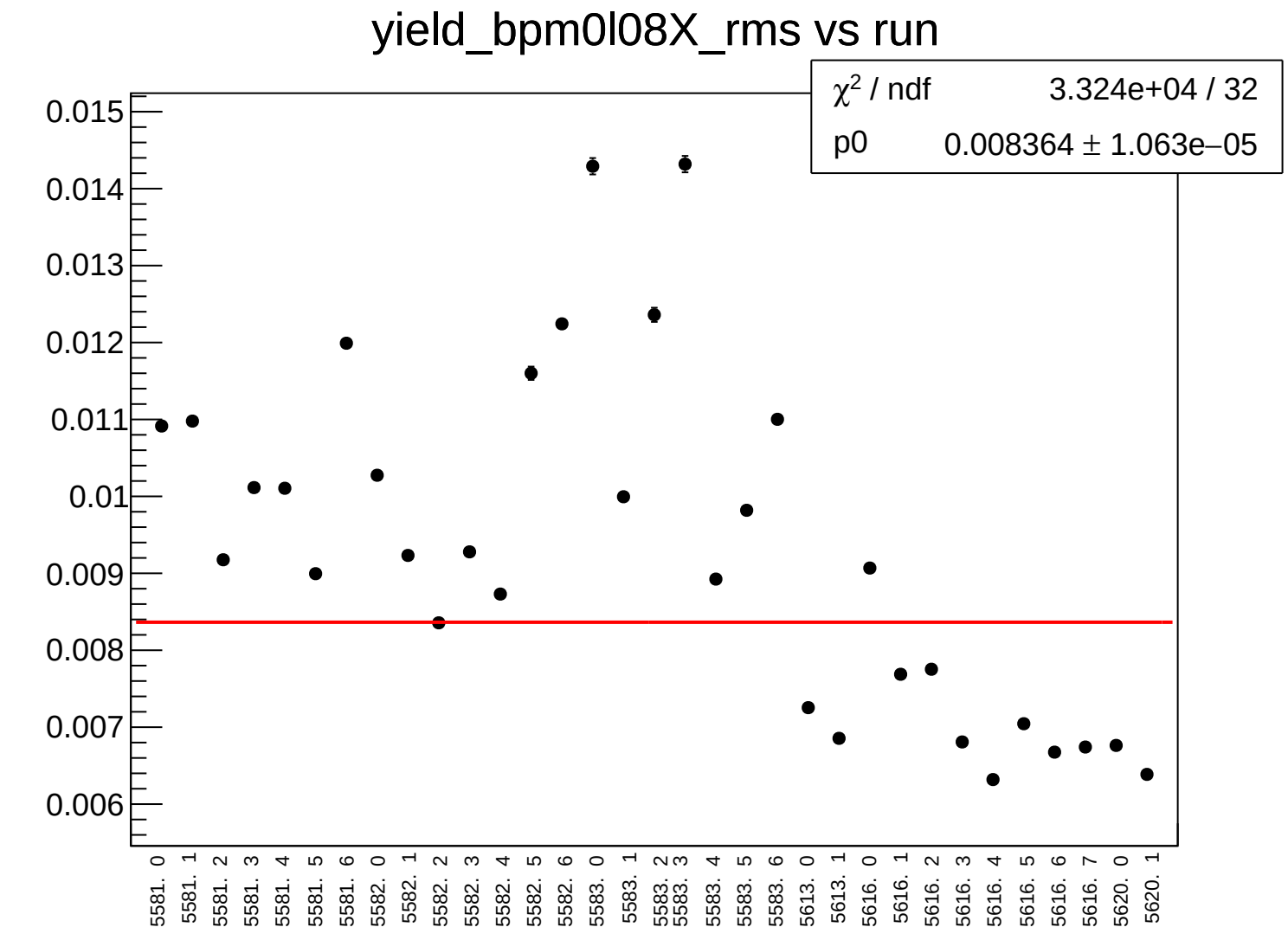

yield_bpm0l07X_rms vs run
χ² / ndf 4.915e+04 / 32
p0 0.01003 ± 1.292e−05
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

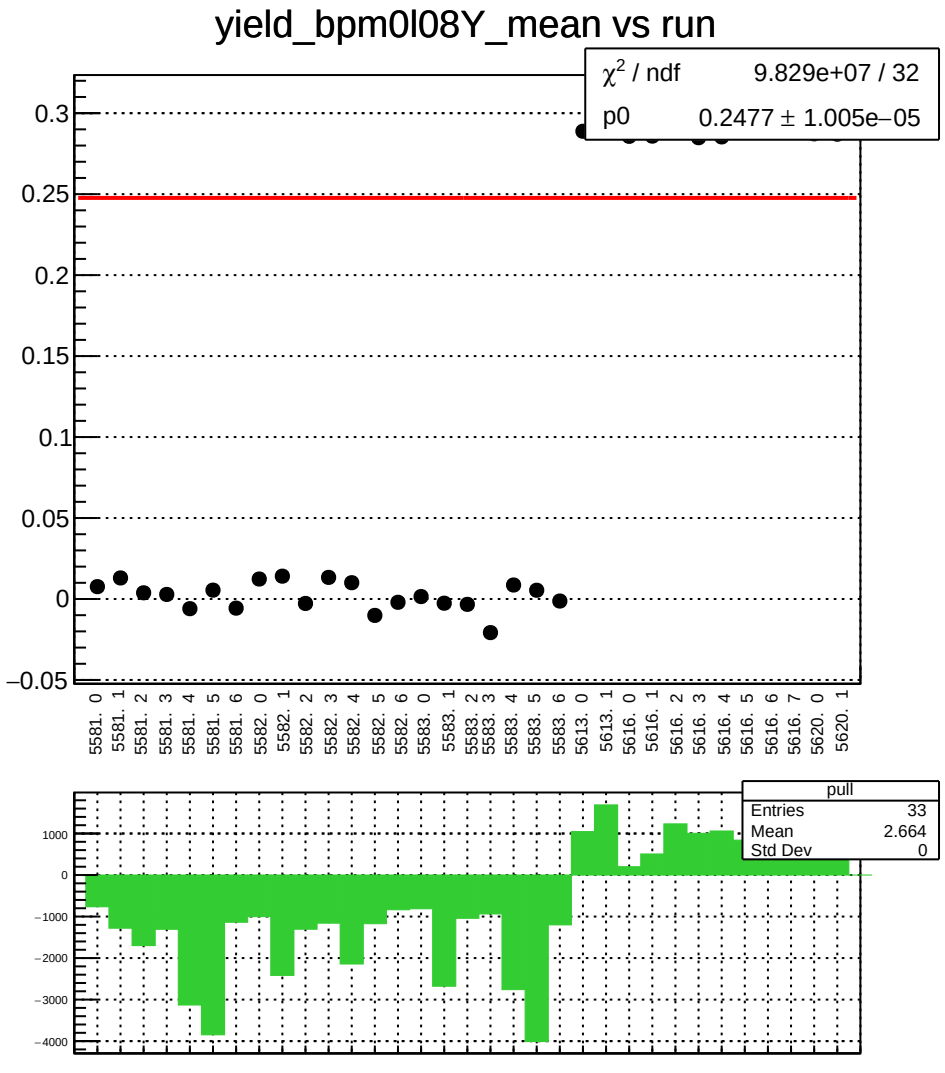

yield_bpm0l07Y_mean vs run
χ² / ndf 2.346e+08 / 32
p0 0.7413 ± 6.966e−06
0.8
0.75
0.7
0.65
0.6
0.55
0.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 1.342
Std Dev 0
2000
0
−2000
−4000
−6000

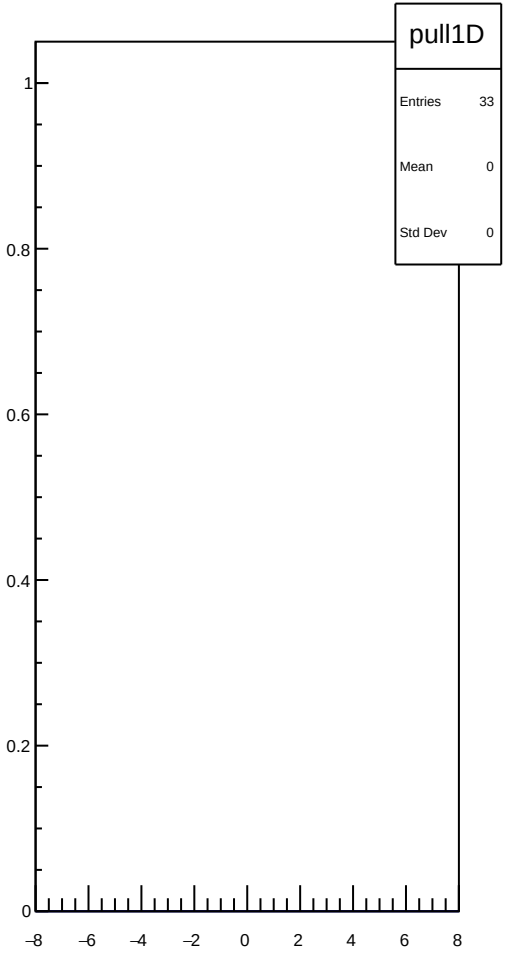

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

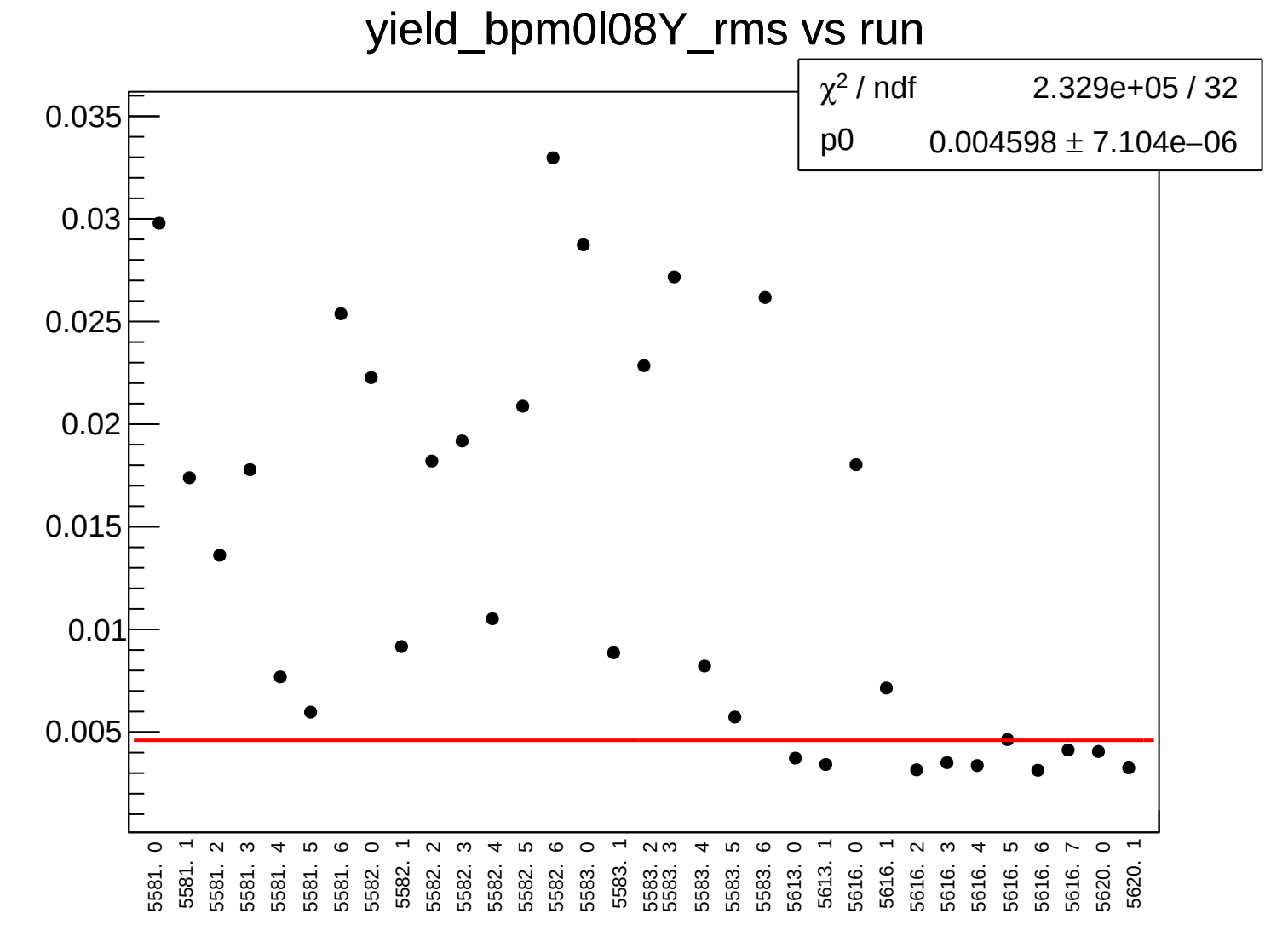

yield_bpm0l07Y_rms vs run
χ² / ndf 2.201e+05 / 32
p0 0.003237 ± 4.926e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

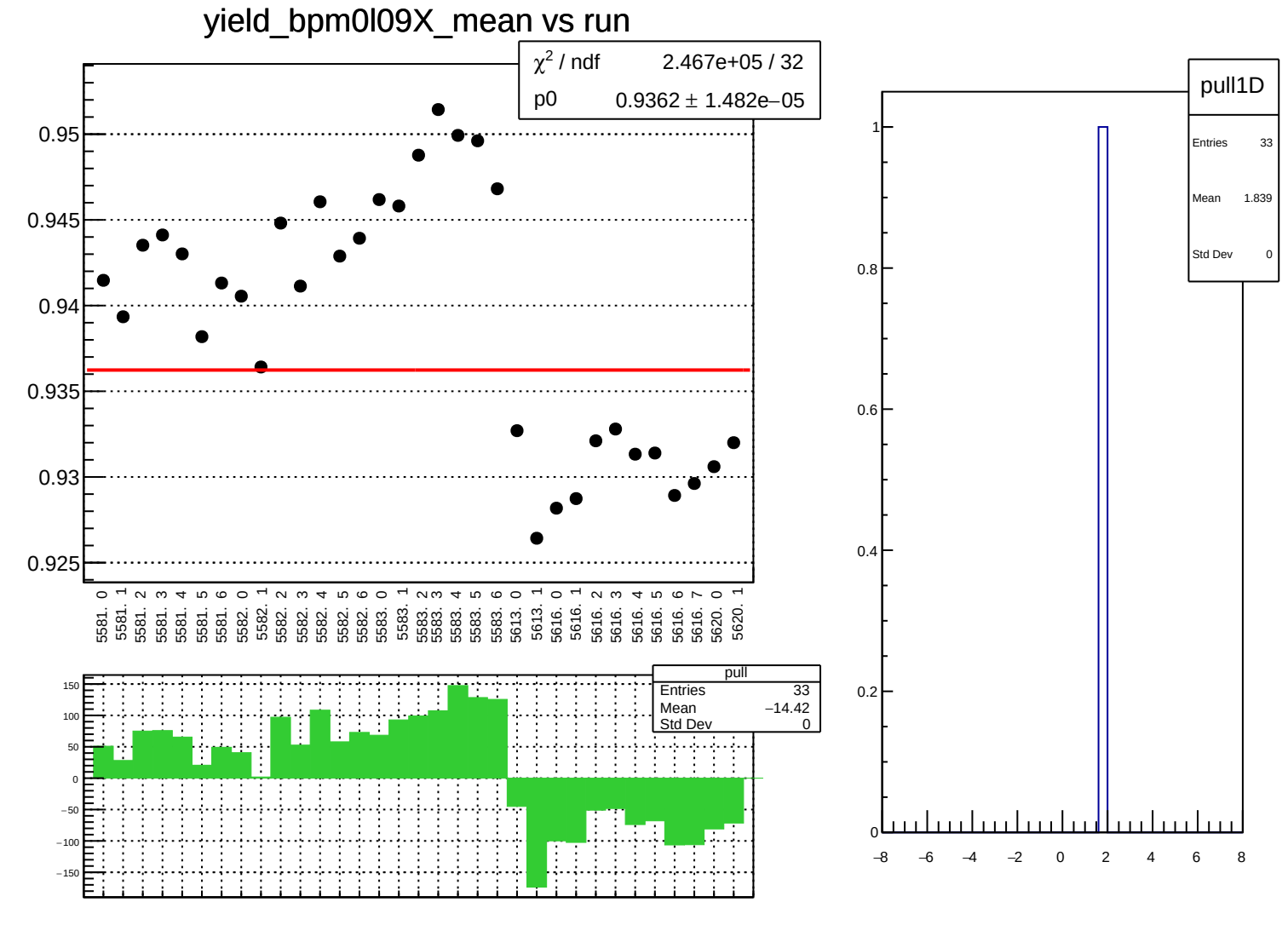

yield_bpm0l08X_mean vs run
χ² / ndf 1.696e+06 / 32
p0 0.1861 ± 1.504e−05
0.22
0.21
0.2
0.19
0.18
0.17
0.16
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −18.23
Std Dev 0
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

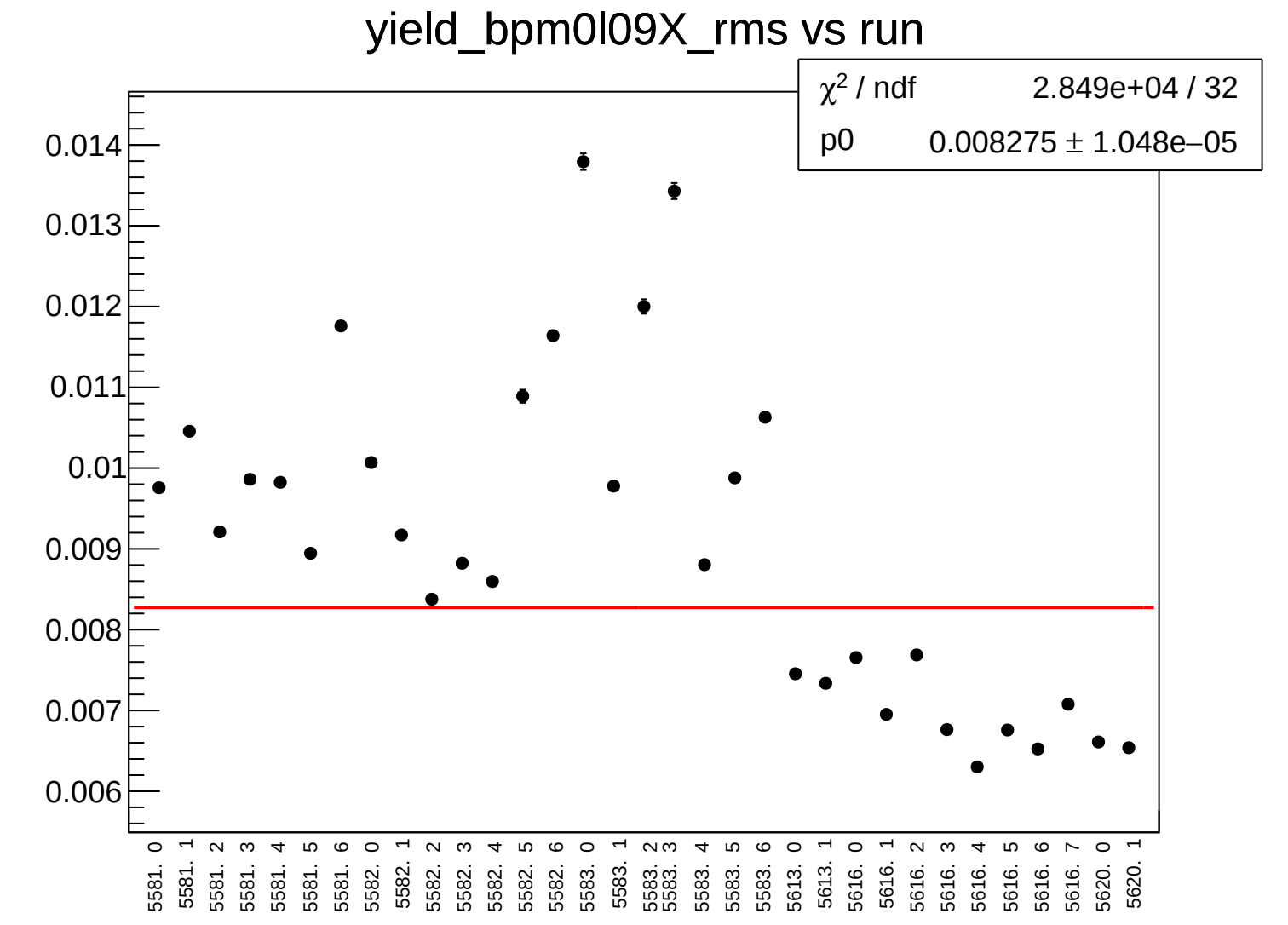

yield_bpm0l08X_rms vs run
χ² / ndf 3.324e+04 / 32
p0 0.008364 ± 1.063e−05
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

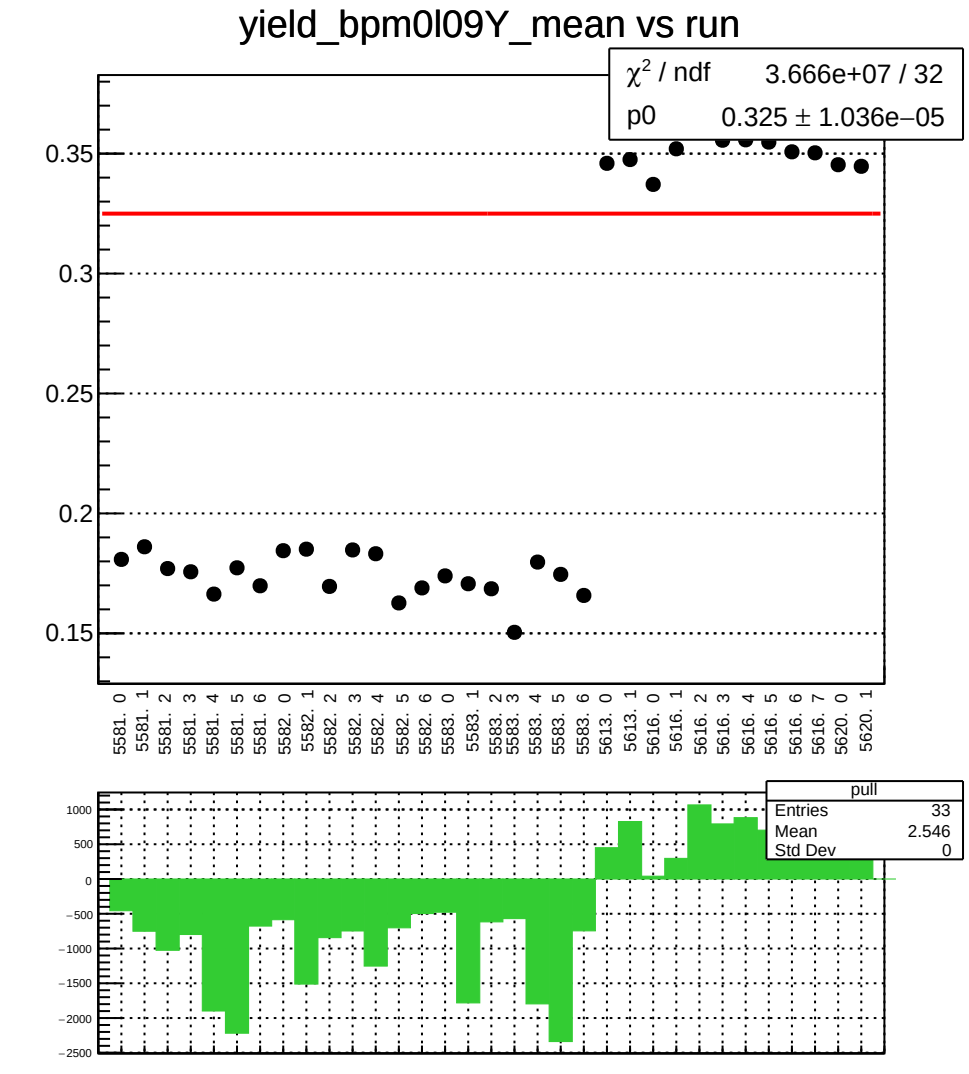

yield_bpm0l08Y_mean vs run
χ² / ndf 9.829e+07 / 32
p0 0.2477 ± 1.005e−05
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2.664
Std Dev 0
1000
0
−1000
−2000
−3000
−4000

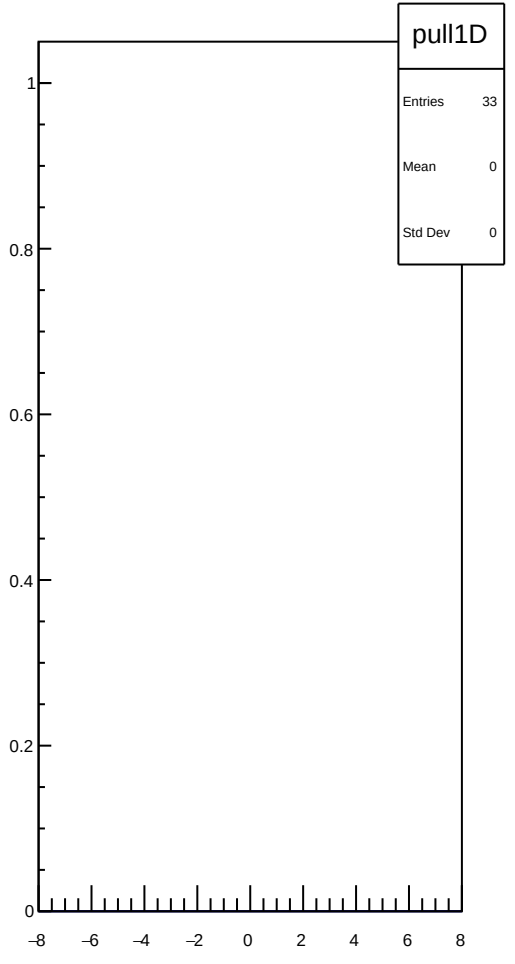

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

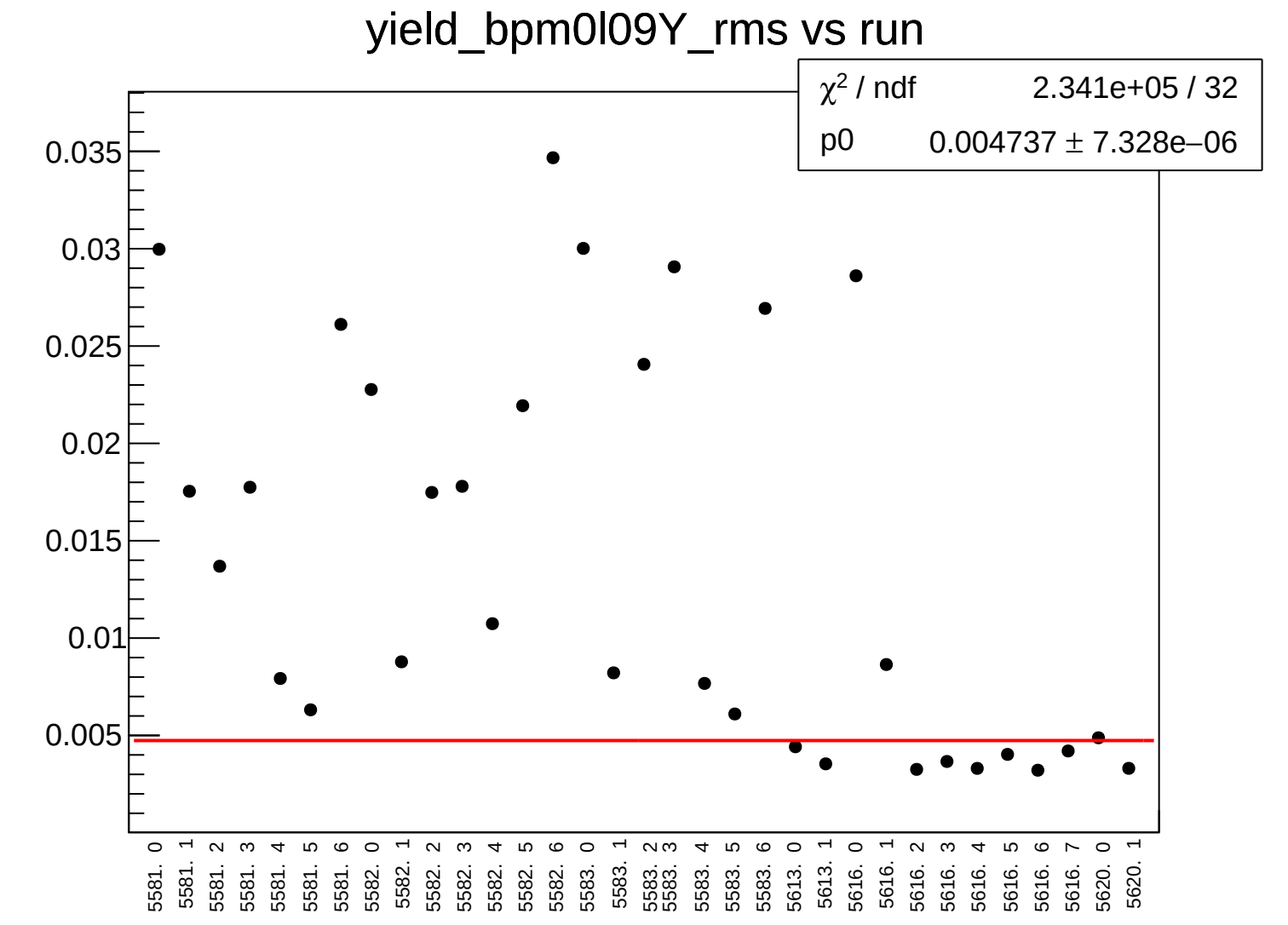

yield_bpm0l08Y_rms vs run
χ² / ndf 2.329e+05 / 32
p0 0.004598 ± 7.104e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

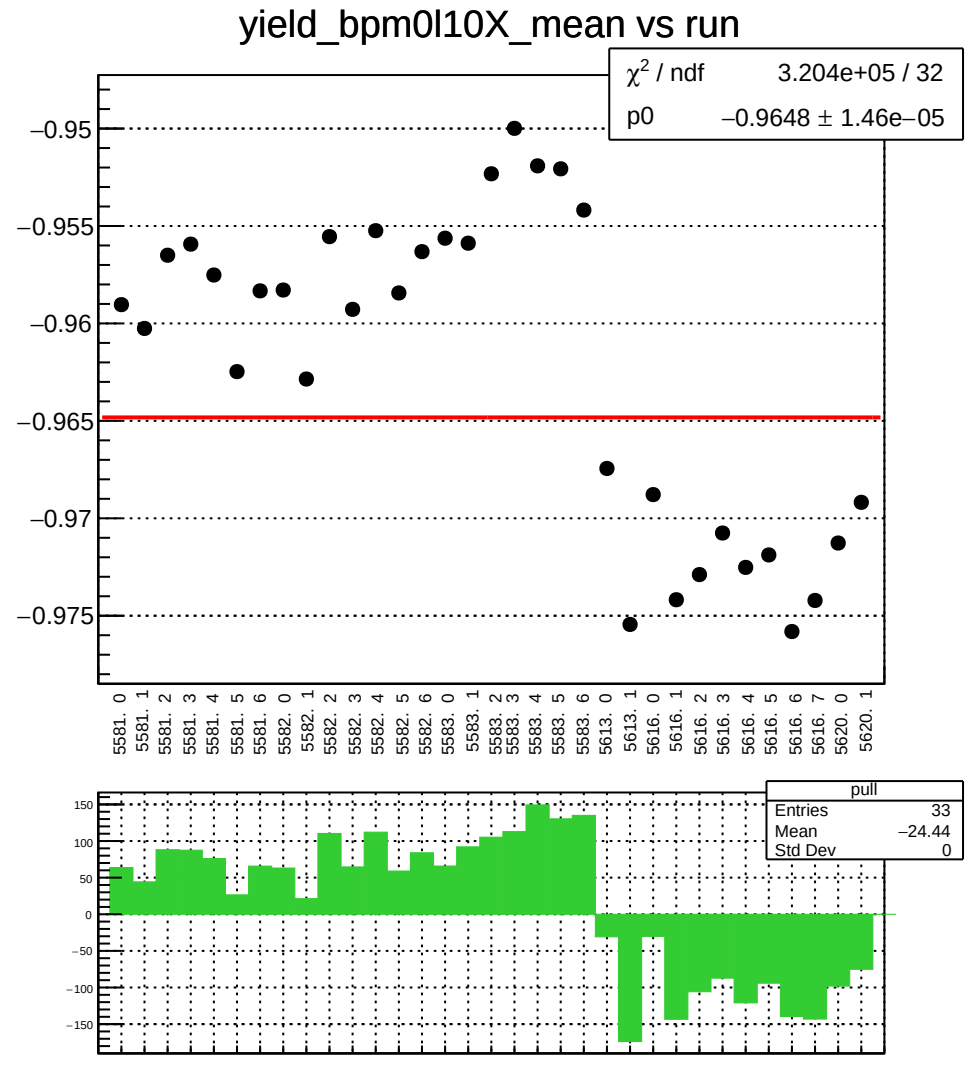

yield_bpm0l09X_mean vs run
χ² / ndf 2.467e+05 / 32
p0 0.9362 ± 1.482e−05
0.95
0.945
0.94
0.935
0.93
0.925
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −14.42
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 33
Mean 1.839
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

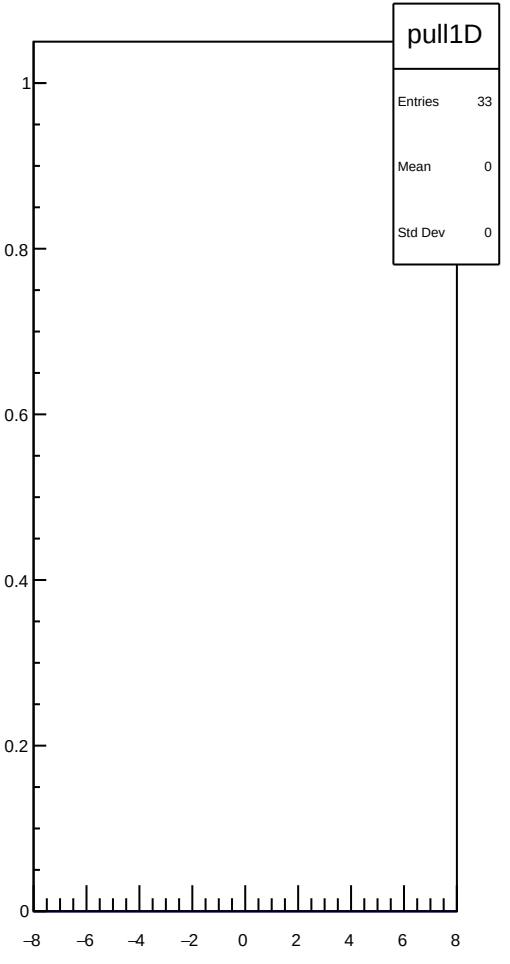

yield_bpm0l09X_rms vs run
χ² / ndf 2.849e+04 / 32
p0 0.008275 ± 1.048e−05
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

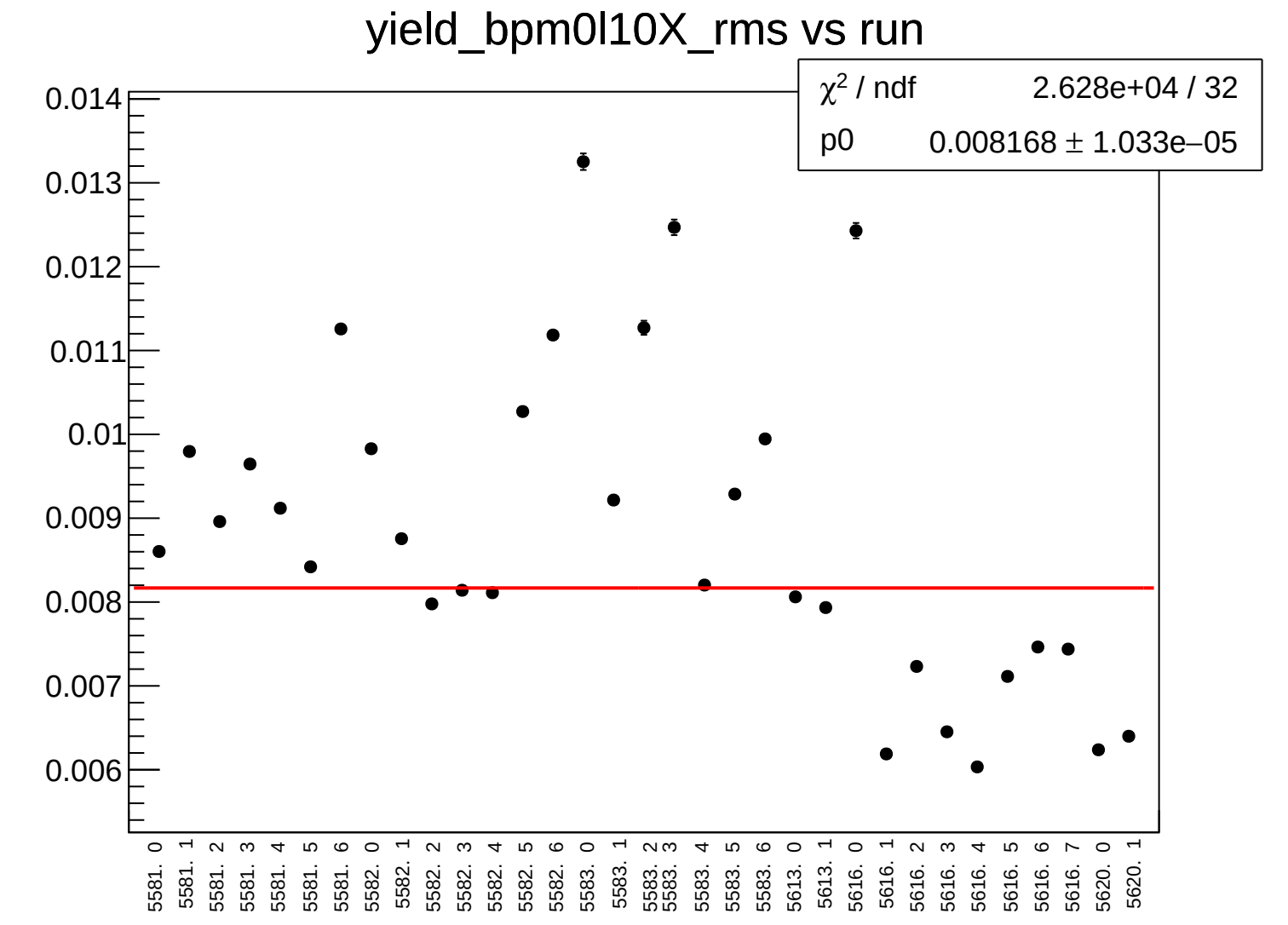

yield_bpm0l09Y_mean vs run
χ² / ndf 3.666e+07 / 32
p0 0.325 ± 1.036e−05
0.35
0.3
0.25
0.2
0.15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2.546
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

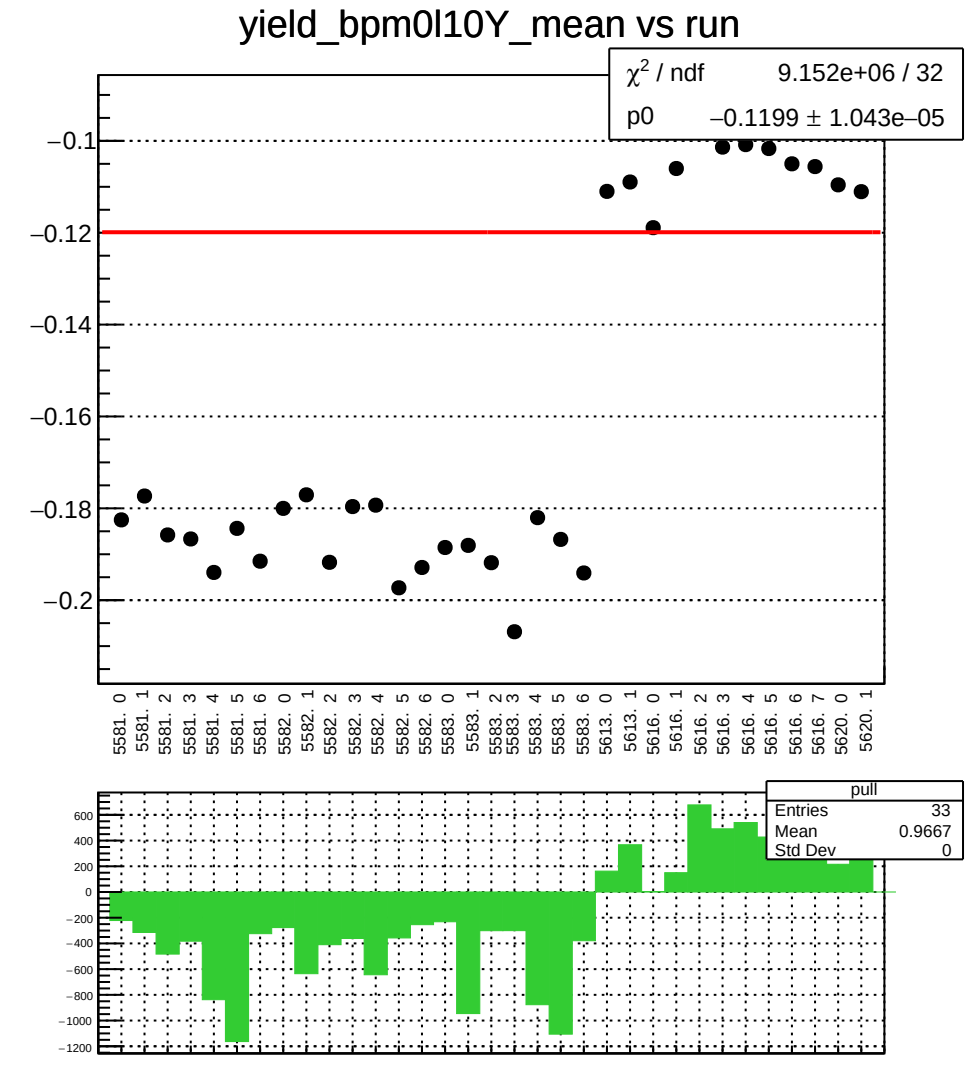

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

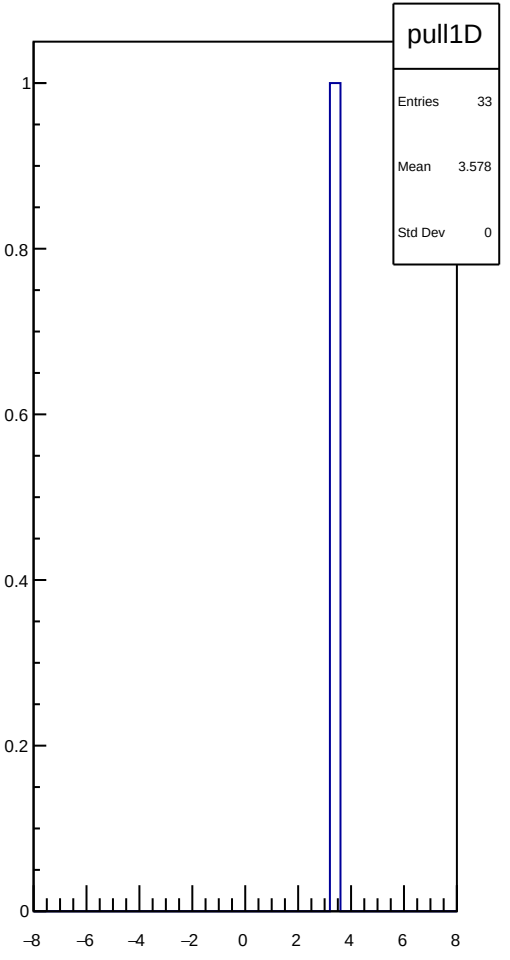

yield_bpm0l09Y_rms vs run
χ² / ndf 2.341e+05 / 32
p0 0.004737 ± 7.328e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

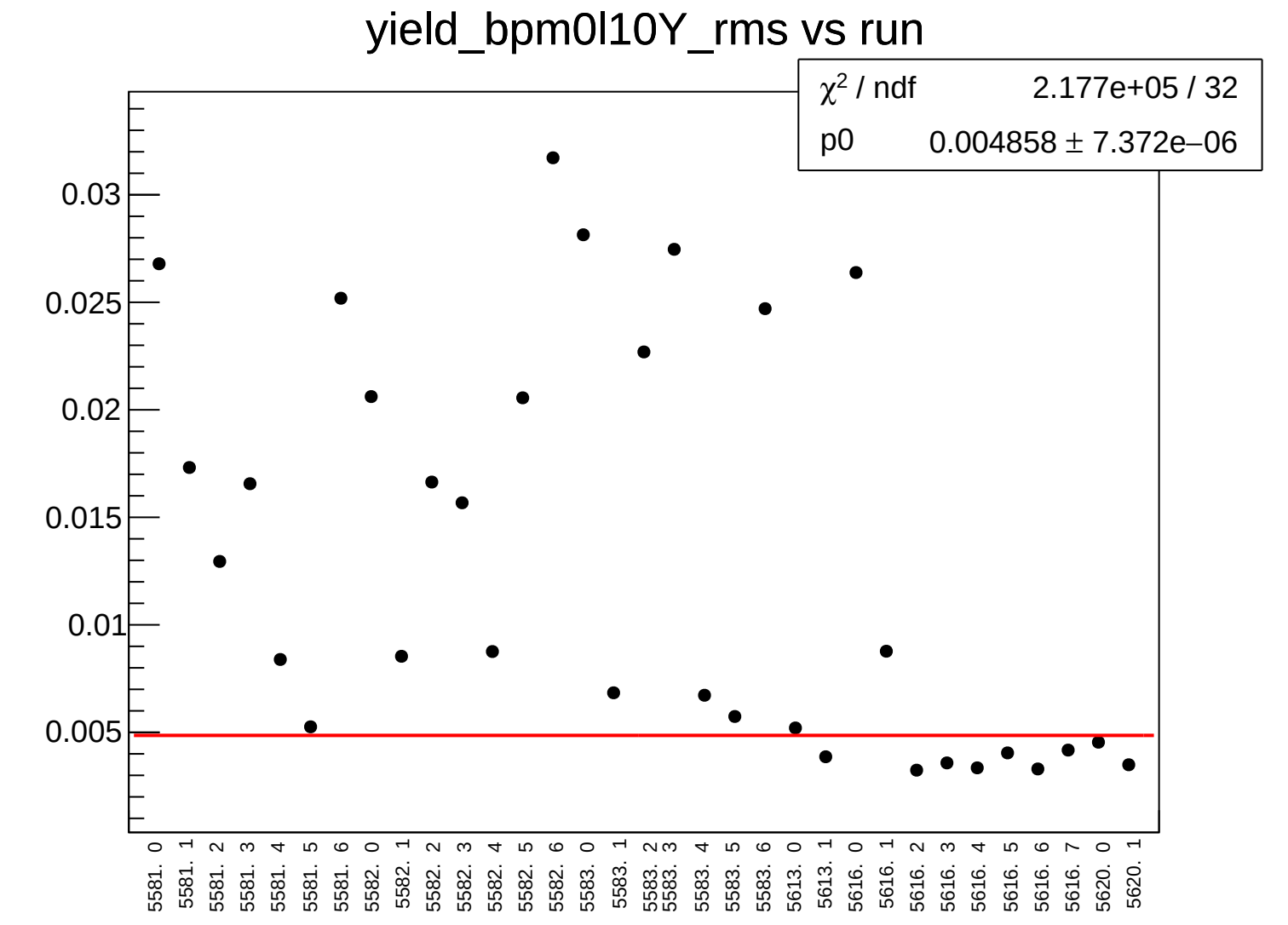

yield_bpm0l10X_mean vs run
χ² / ndf 3.204e+05 / 32
p0 −0.9648 ± 1.46e−05
−0.95
−0.955
−0.96
−0.965
−0.97
−0.975
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −24.44
Std Dev 0
150
100
50
0
−50
−100
−150

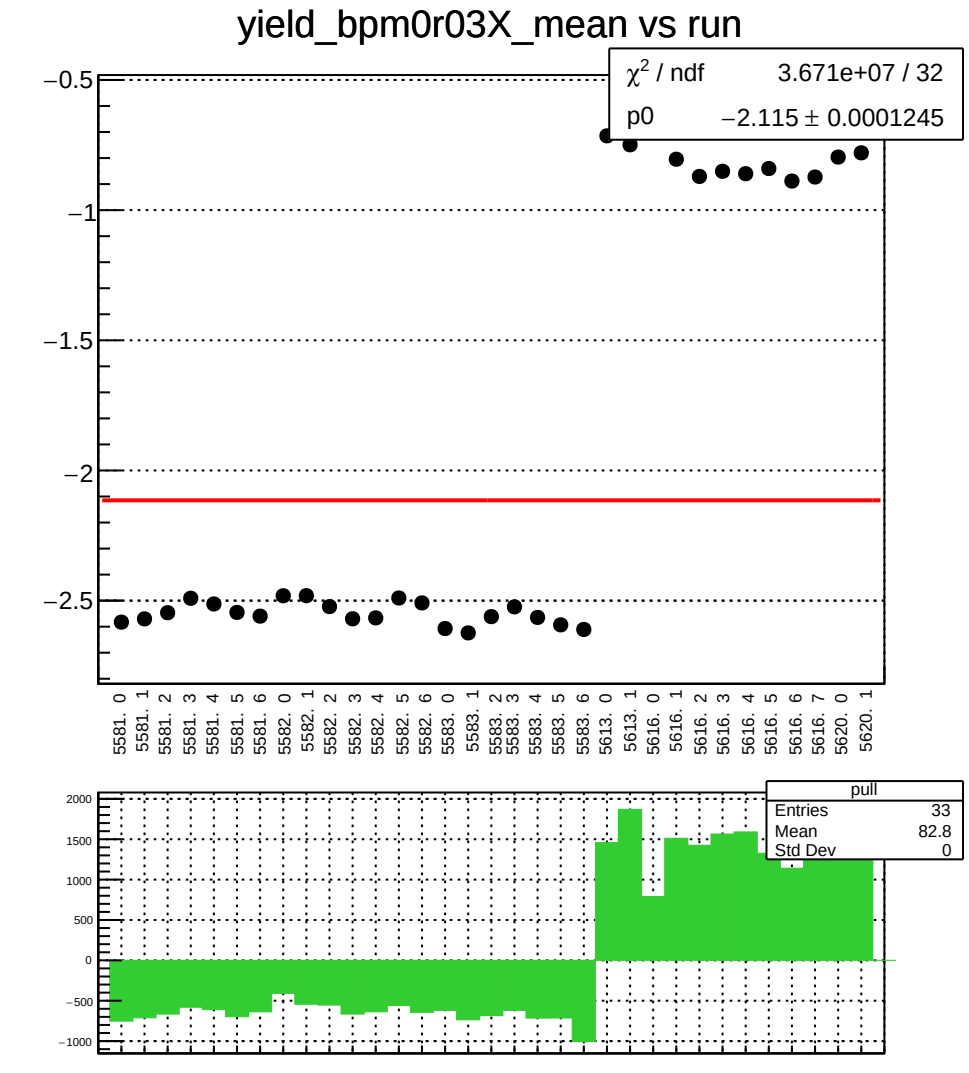

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

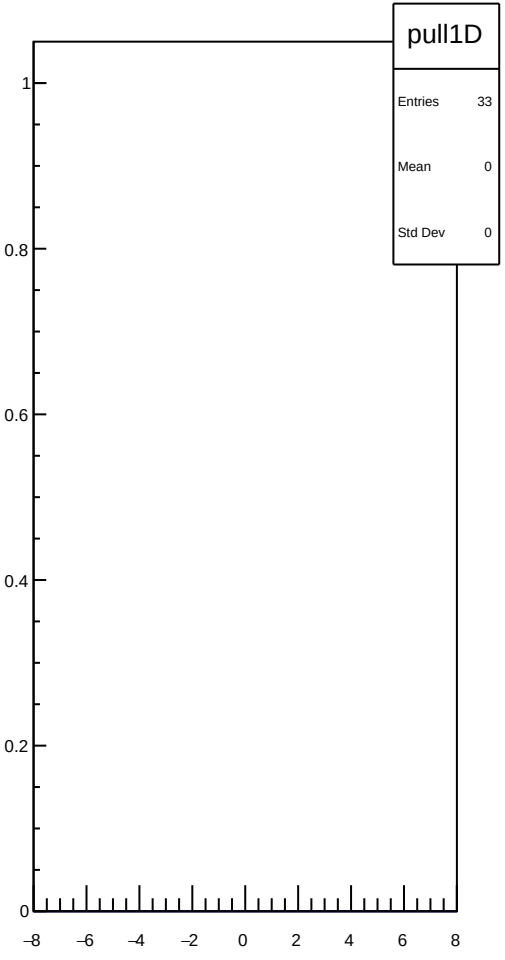

yield_bpm0l10X_rms vs run
χ² / ndf 2.628e+04 / 32
p0 0.008168 ± 1.033e−05
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

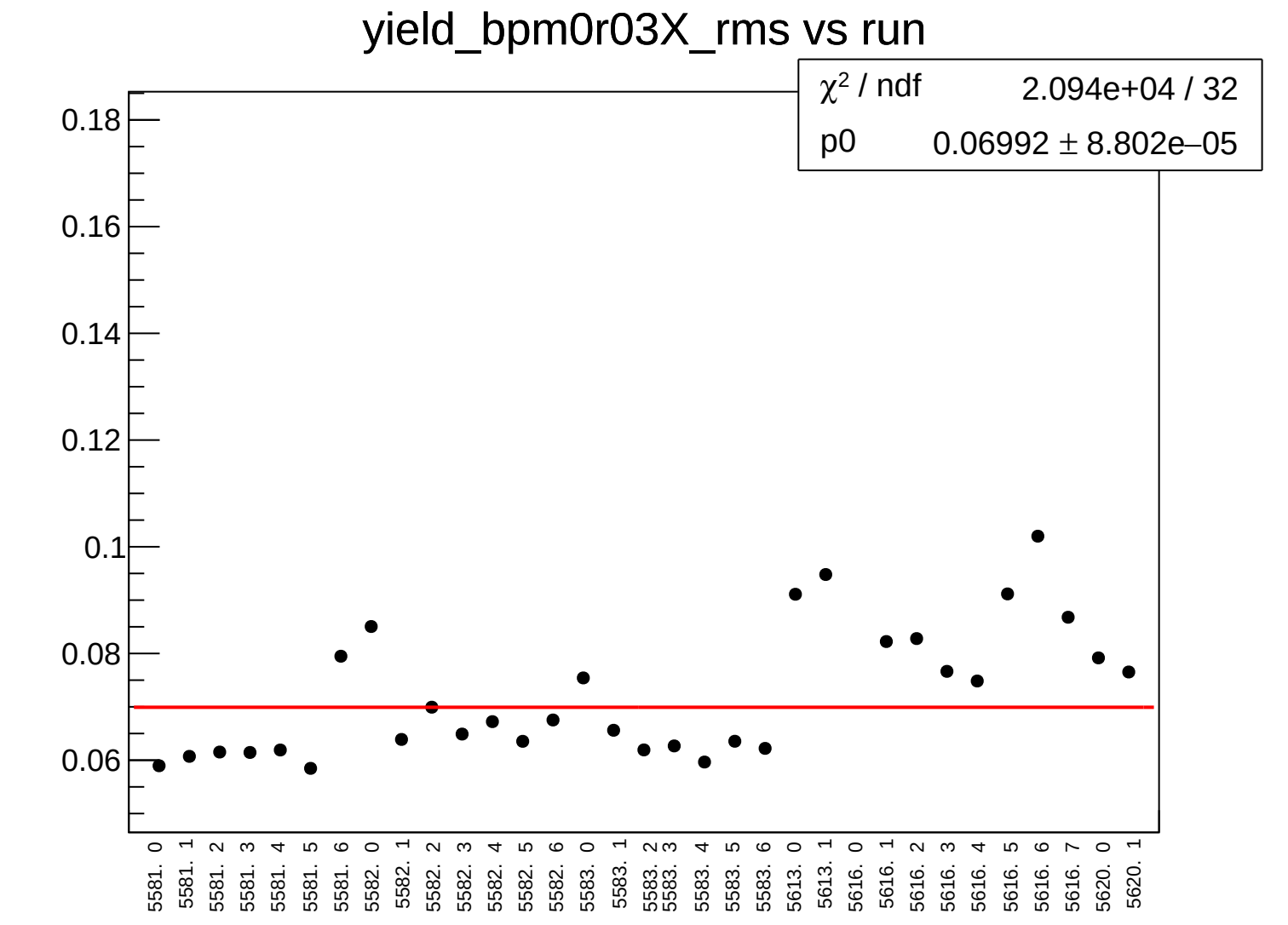

yield_bpm0l10Y_mean vs run
χ² / ndf 9.152e+06 / 32
p0 −0.1199 ± 1.043e−05
−0.1
−0.12
−0.14
−0.16
−0.18
−0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 0.9667
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

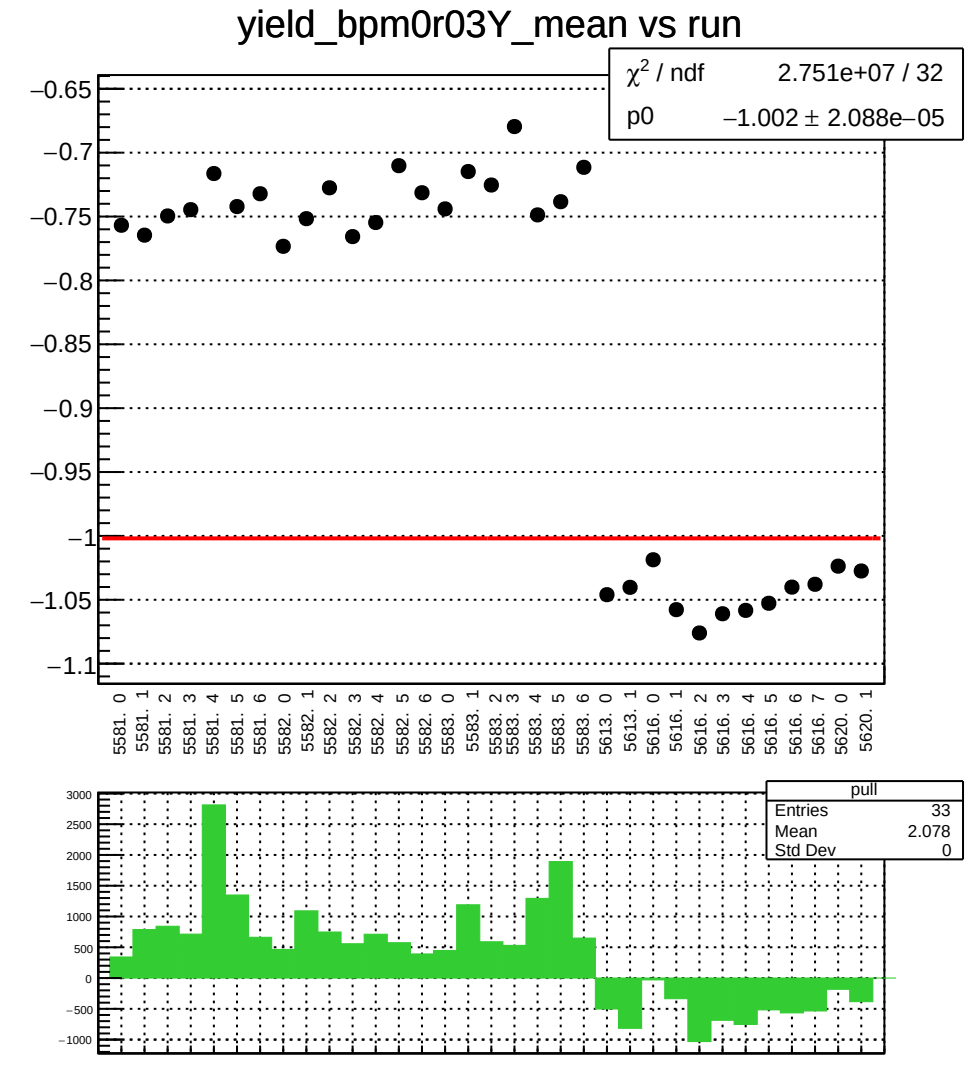

pull1D
Entries 33
Mean 3.578
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

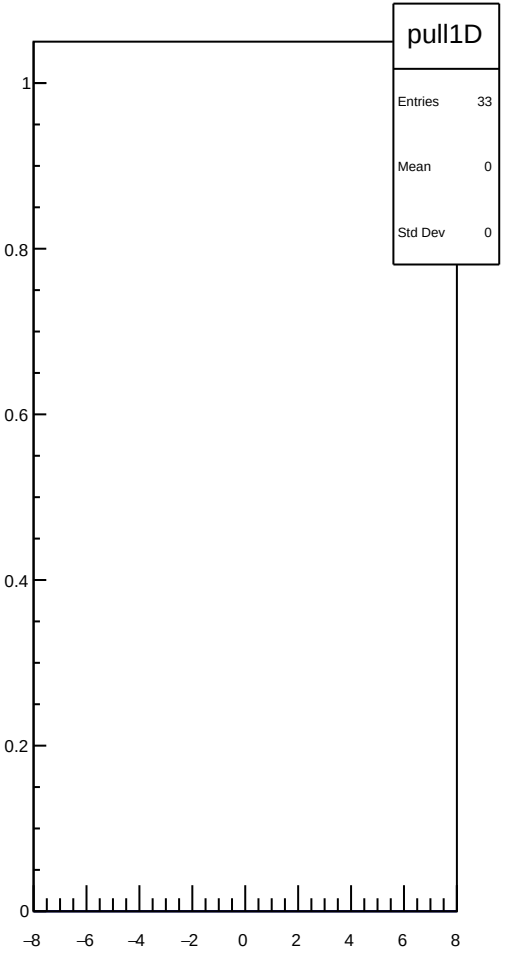

yield_bpm0l10Y_rms vs run
χ² / ndf 2.177e+05 / 32
p0 0.004858 ± 7.372e−06
0.03
0.025
0.02
0.015
0.01
0.005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

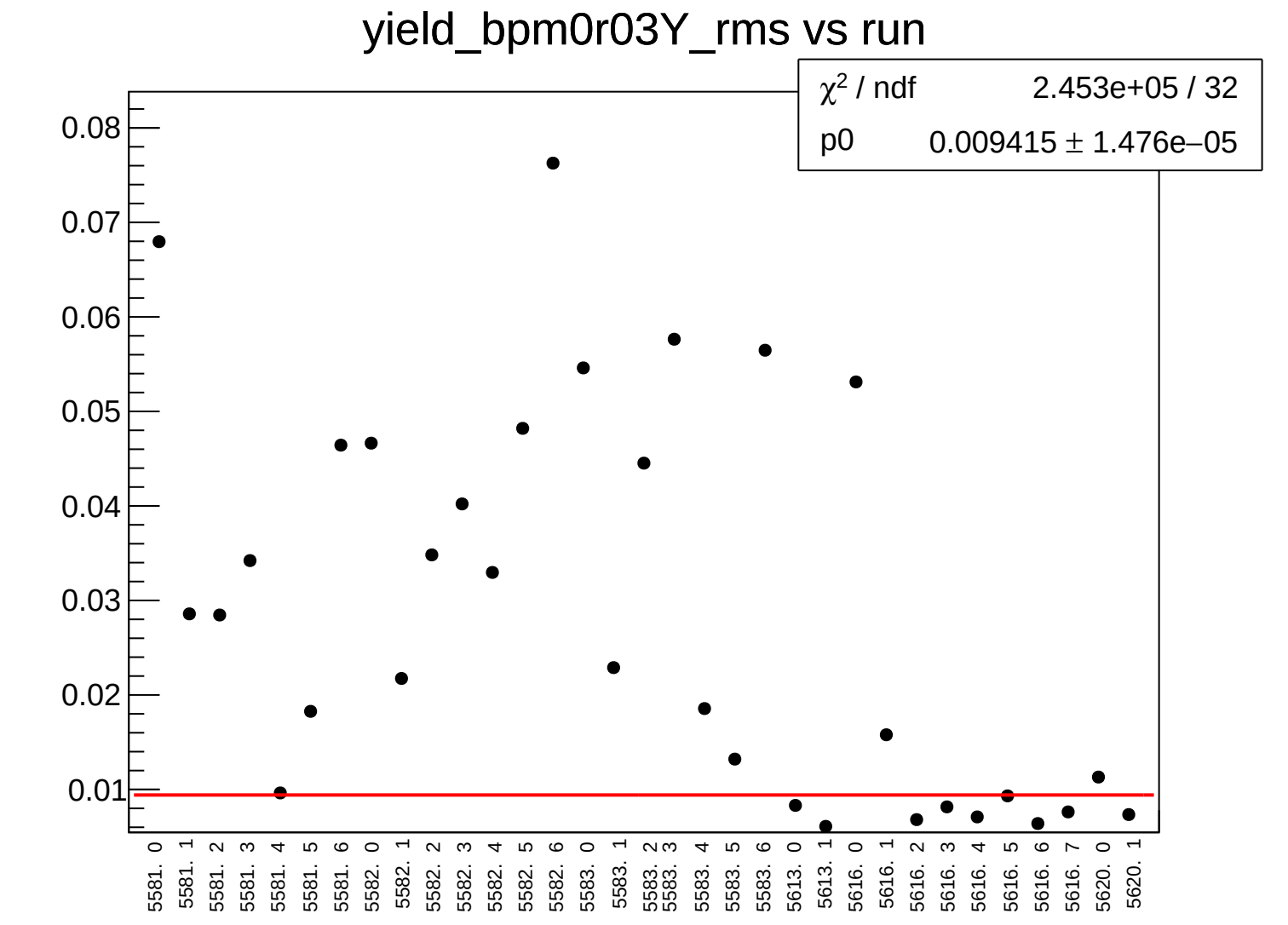

yield_bpm0r03X_mean vs run
χ² / ndf 3.671e+07 / 32
p0 −2.115 ± 0.0001245
−0.5
−1
−1.5
−2
−2.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 82.8
Std Dev 0
2000
1500
1000
500
0
−500
−1000

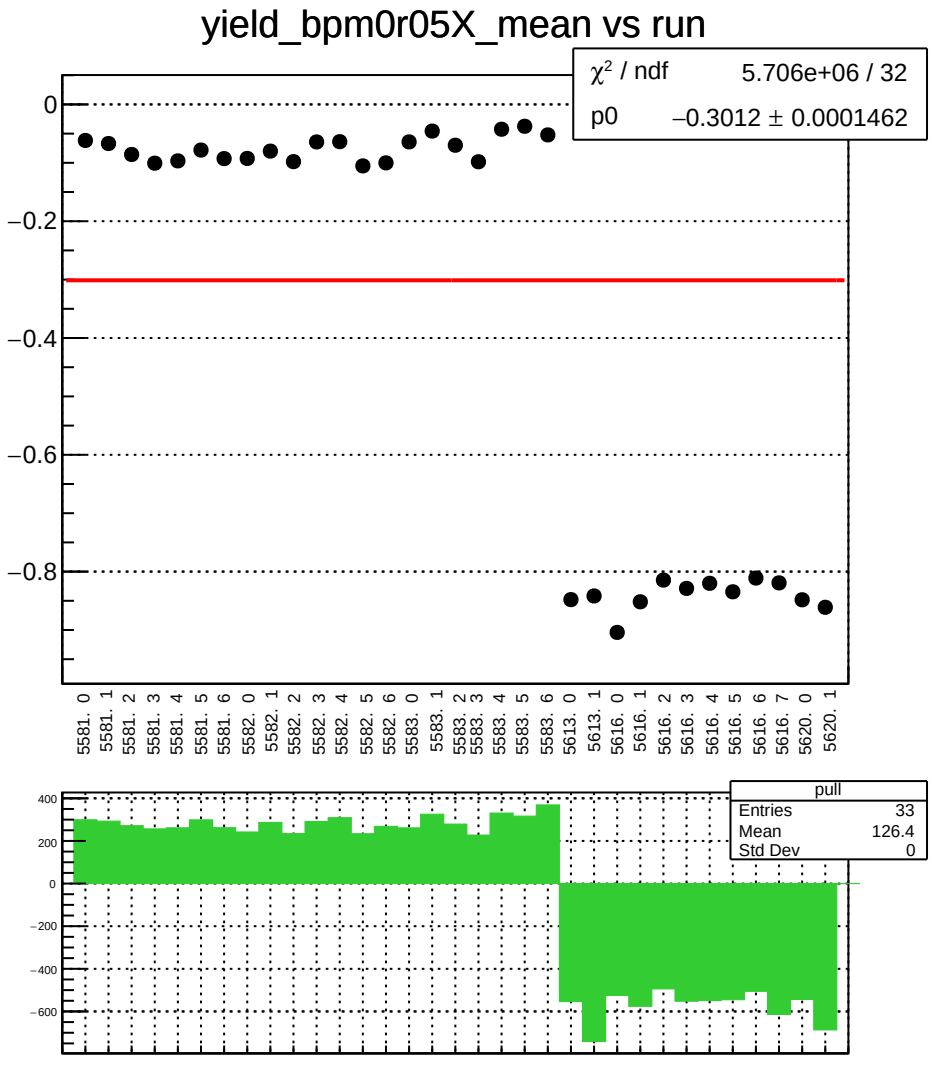

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

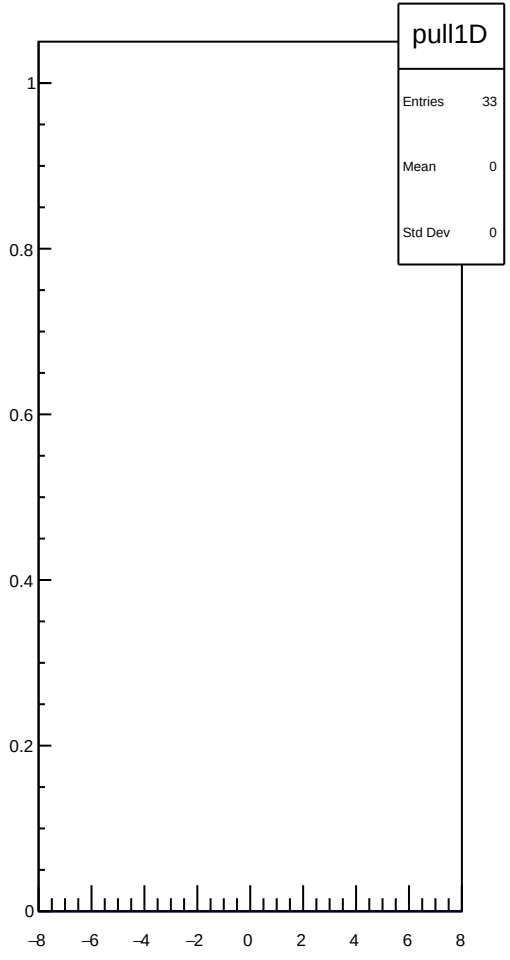

yield_bpm0r03X_rms vs run
χ² / ndf 2.094e+04 / 32
p0 0.06992 ± 8.802e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

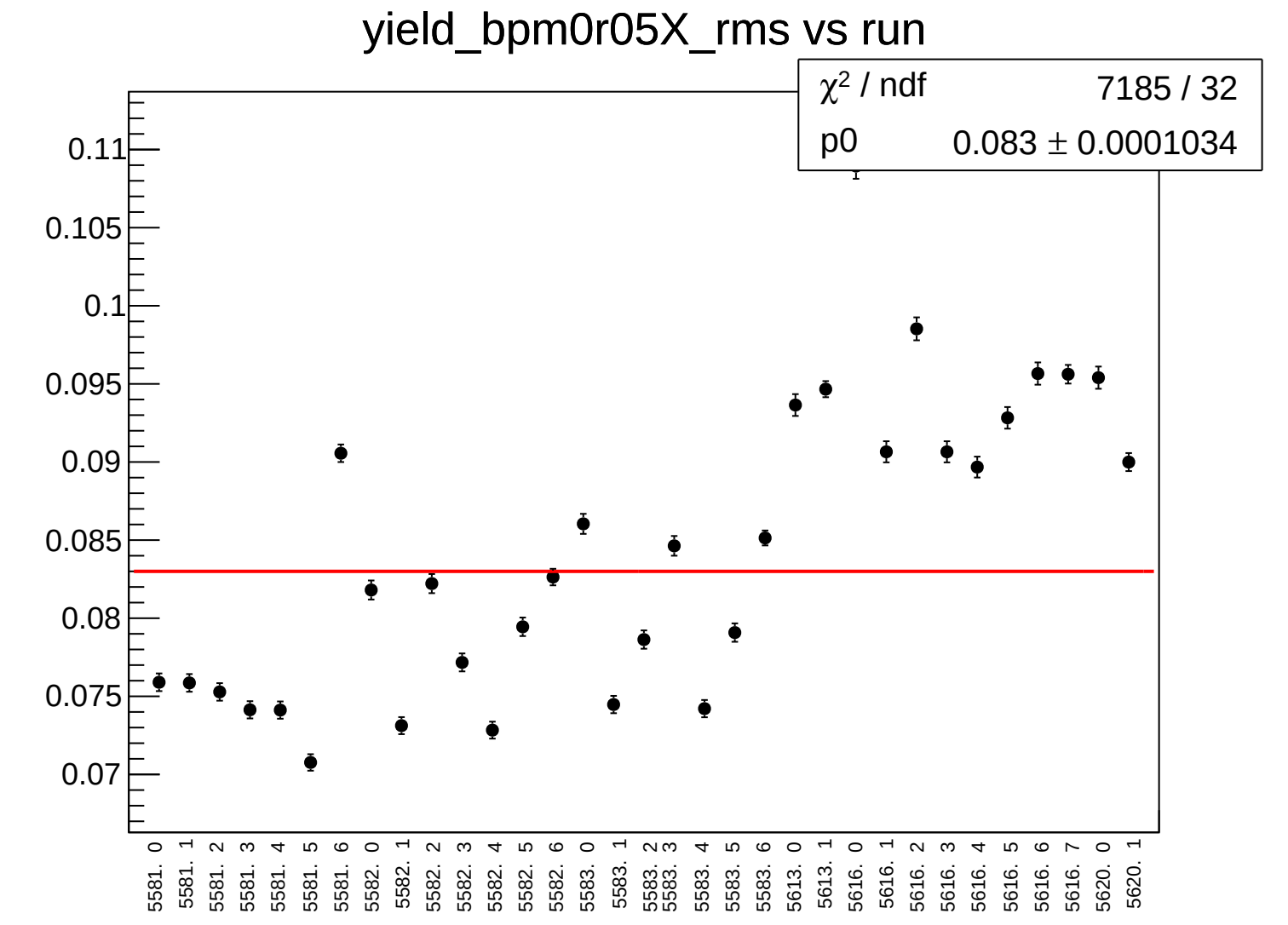

yield_bpm0r03Y_mean vs run
χ² / ndf 2.751e+07 / 32
p0 −1.002 ± 2.088e−05
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
−0.95
−1
−1.05
−1.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2.078
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500
−1000

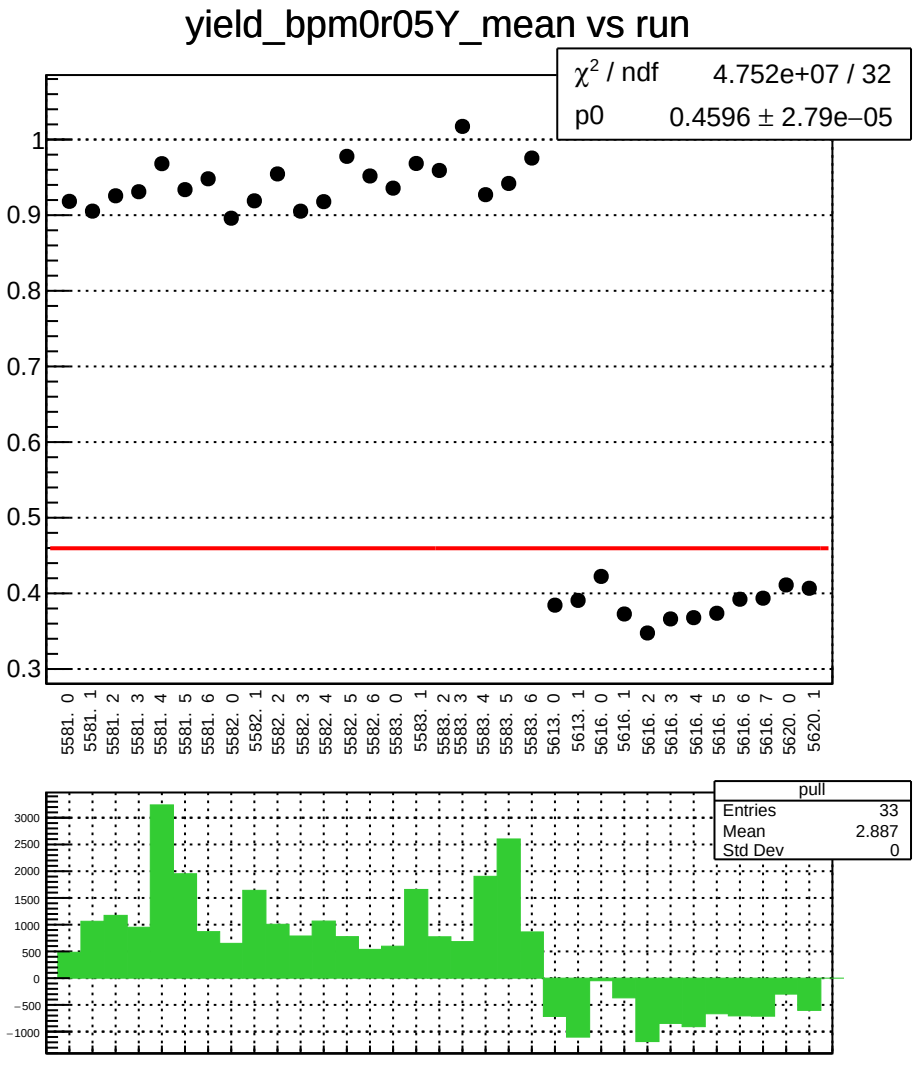

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

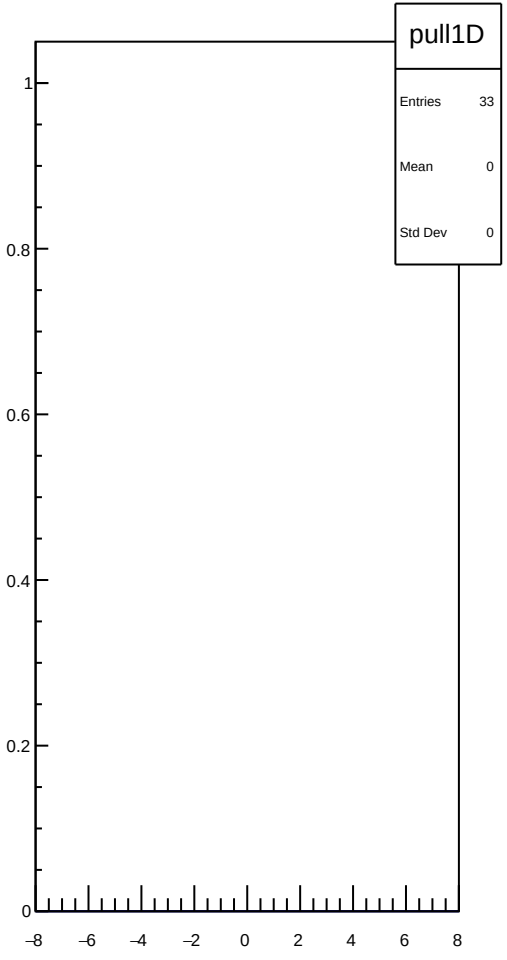

yield_bpm0r03Y_rms vs run
χ² / ndf 2.453e+05 / 32
p0 0.009415 ± 1.476e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

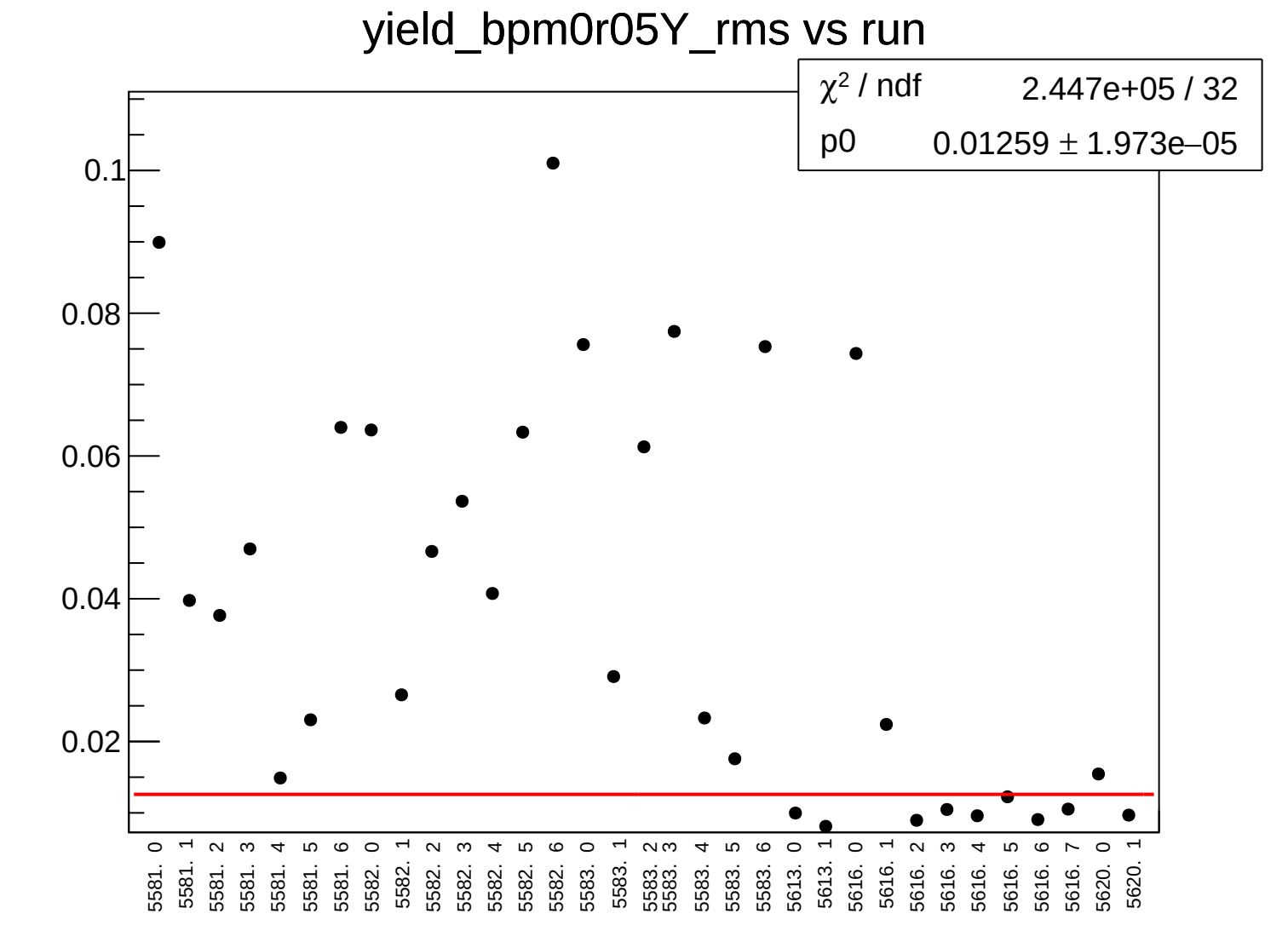

yield_bpm0r05X_mean vs run
χ² / ndf 5.706e+06 / 32
p0 −0.3012 ± 0.0001462
0
−0.2
−0.4
−0.6
−0.8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 126.4
Std Dev 0
400
200
0
−200
−400
−600

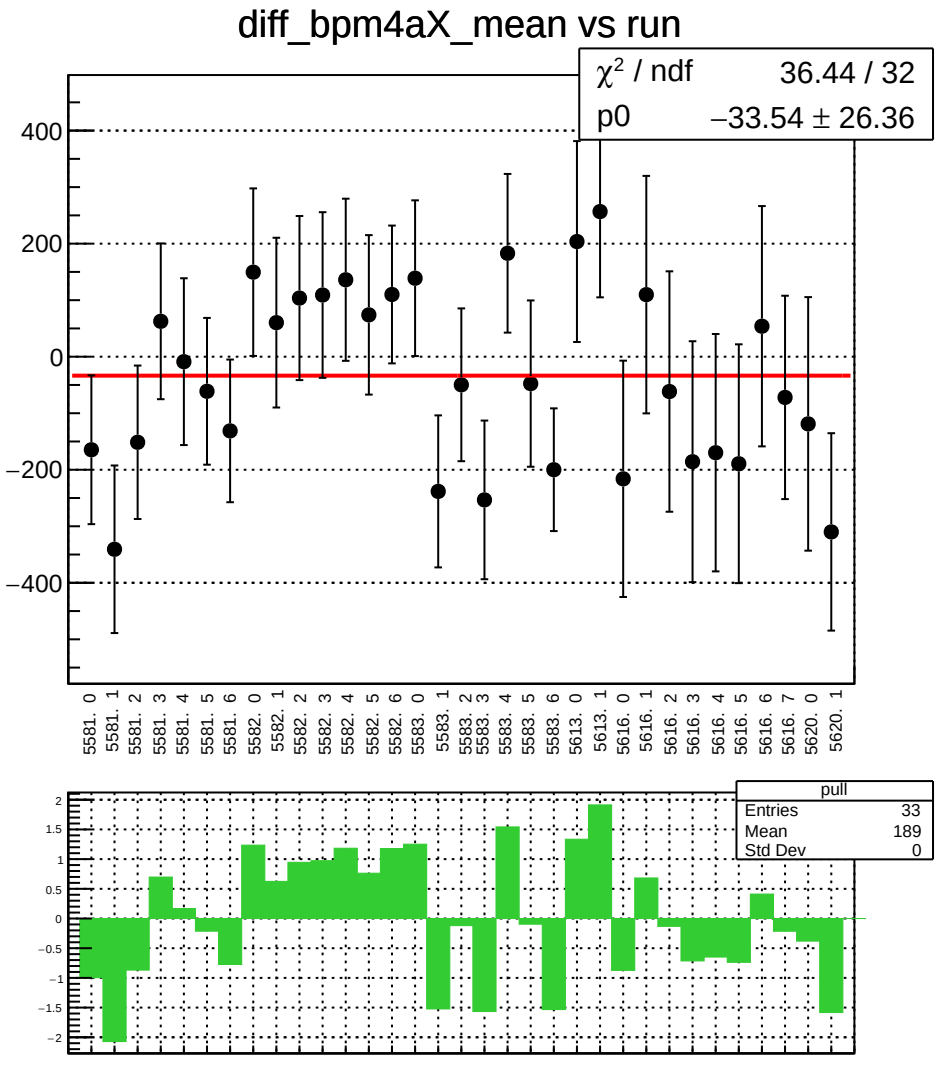

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

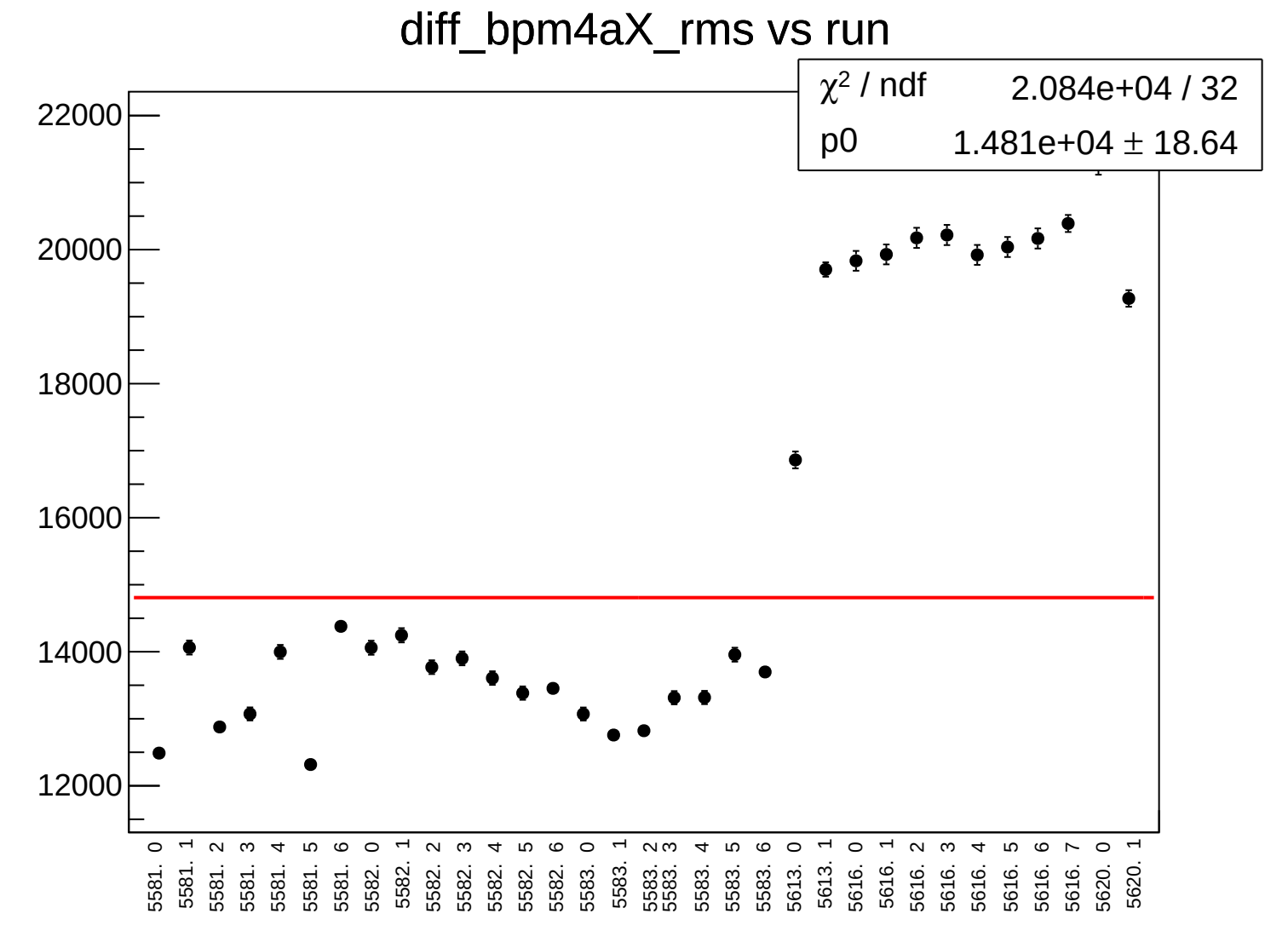

yield_bpm0r05X_rms vs run
χ² / ndf 7185 / 32
p0 0.083 ± 0.0001034
0.11
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

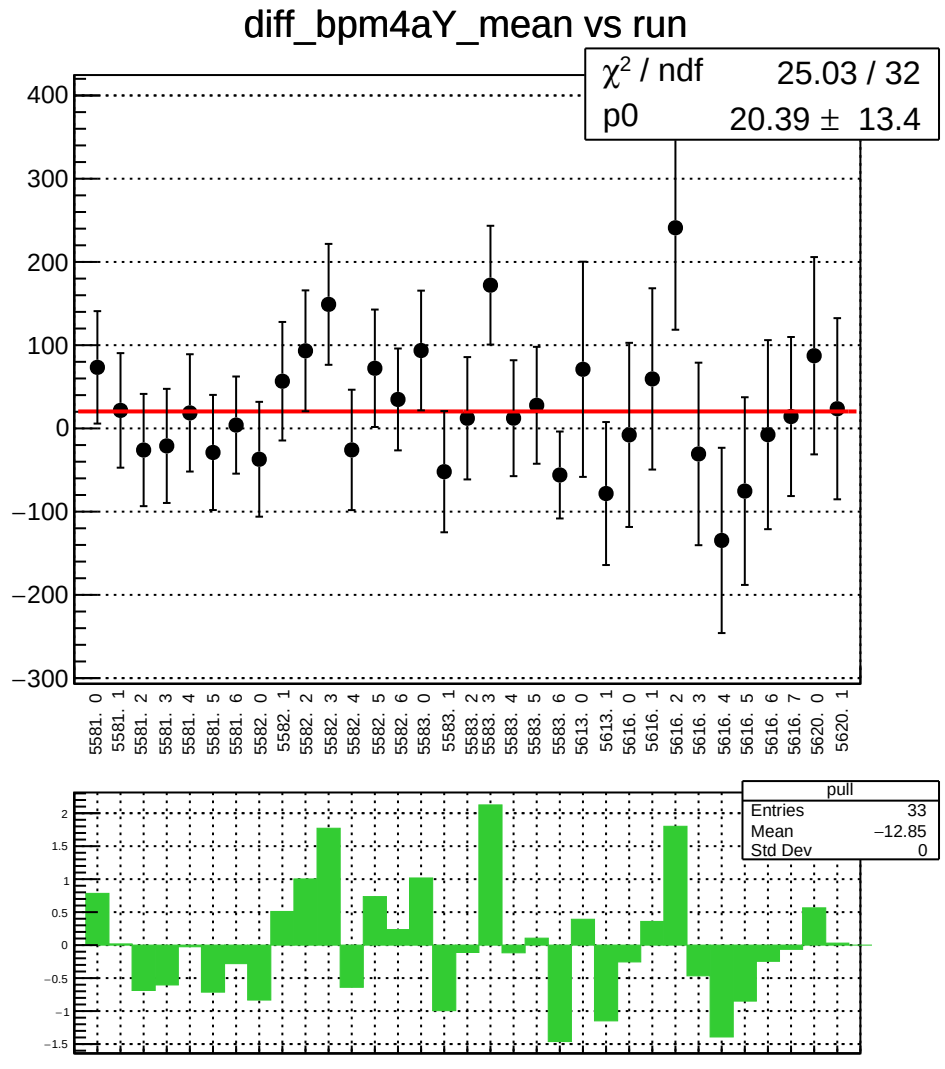

yield_bpm0r05Y_mean vs run
χ² / ndf 4.752e+07 / 32
p0 0.4596 ± 2.79e−05
pull
Entries 33
Mean 2.887
Std Dev 0

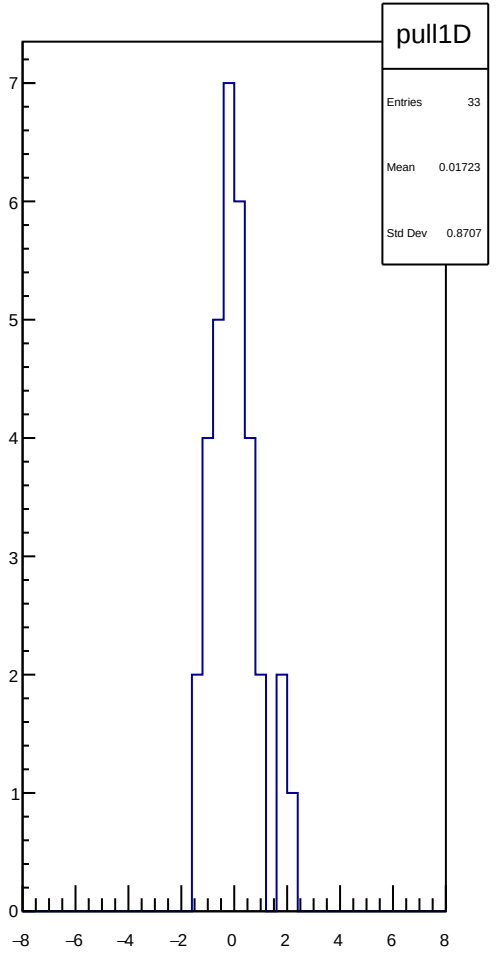

pull1D
Entries 33
Mean 0
Std Dev 0

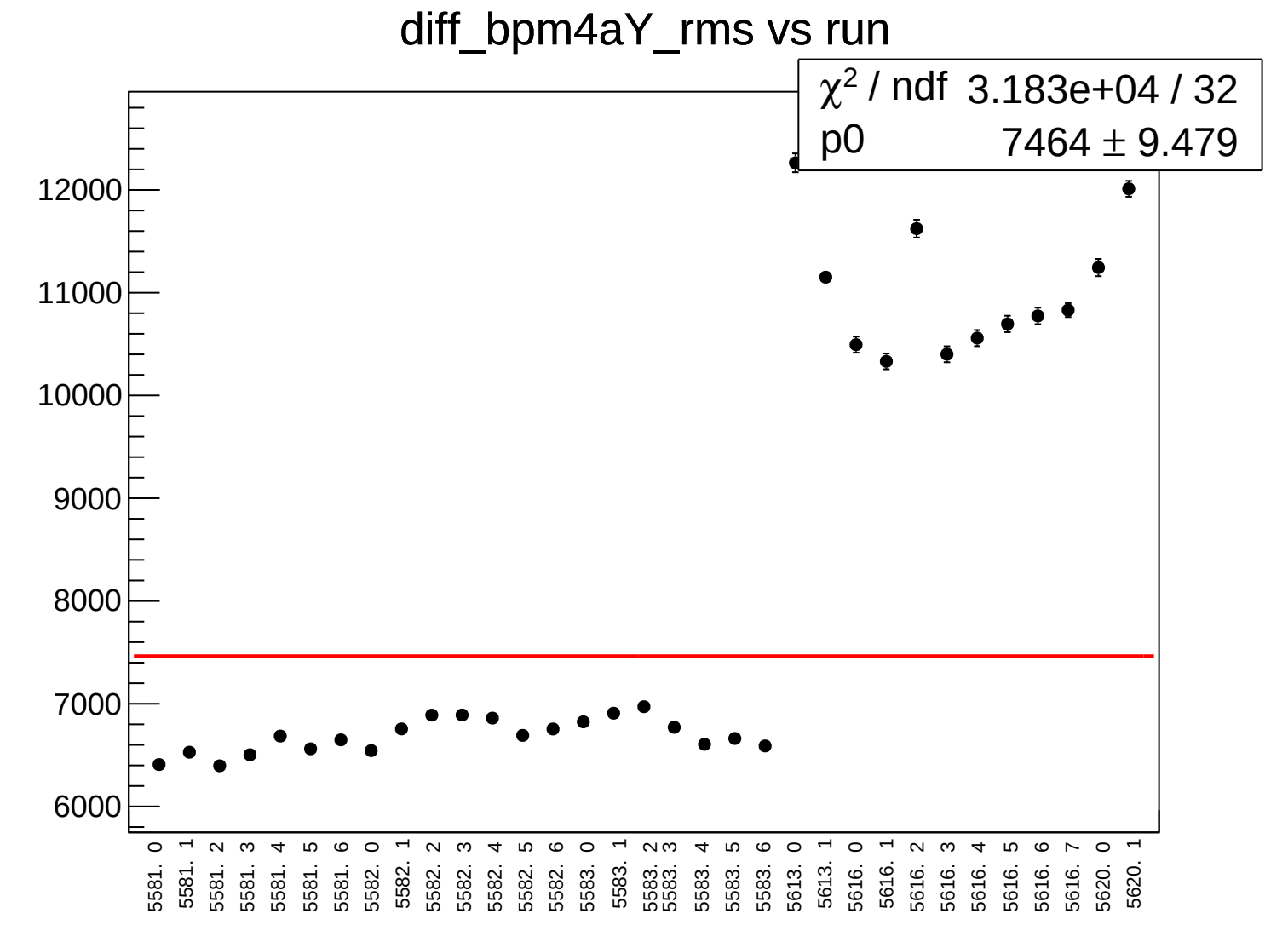

yield_bpm0r05Y_rms vs run
χ² / ndf 2.447e+05 / 32
p0 0.01259 ± 1.973e−05
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

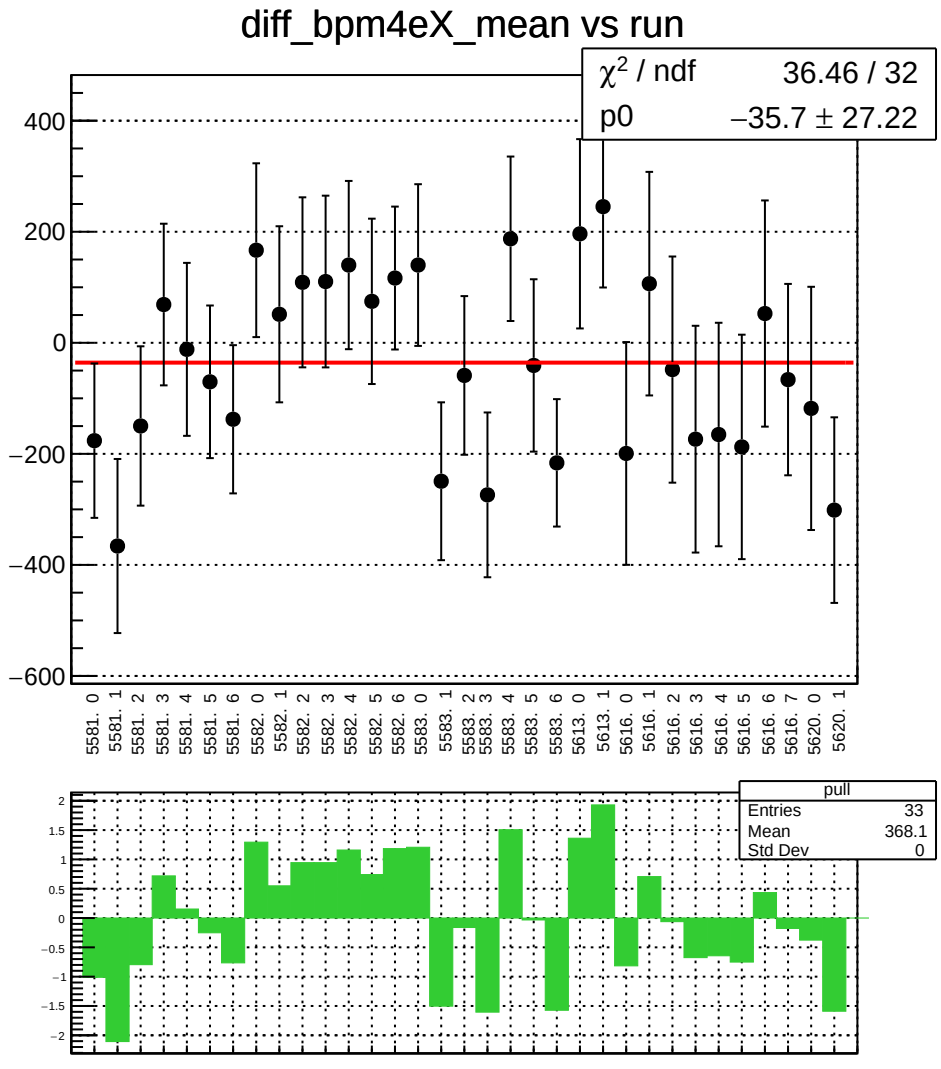

diff_bpm4aX_mean vs run
χ² / ndf 36.44 / 32
p0 −33.54 ± 26.36
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 189
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.004267
Std Dev 1.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

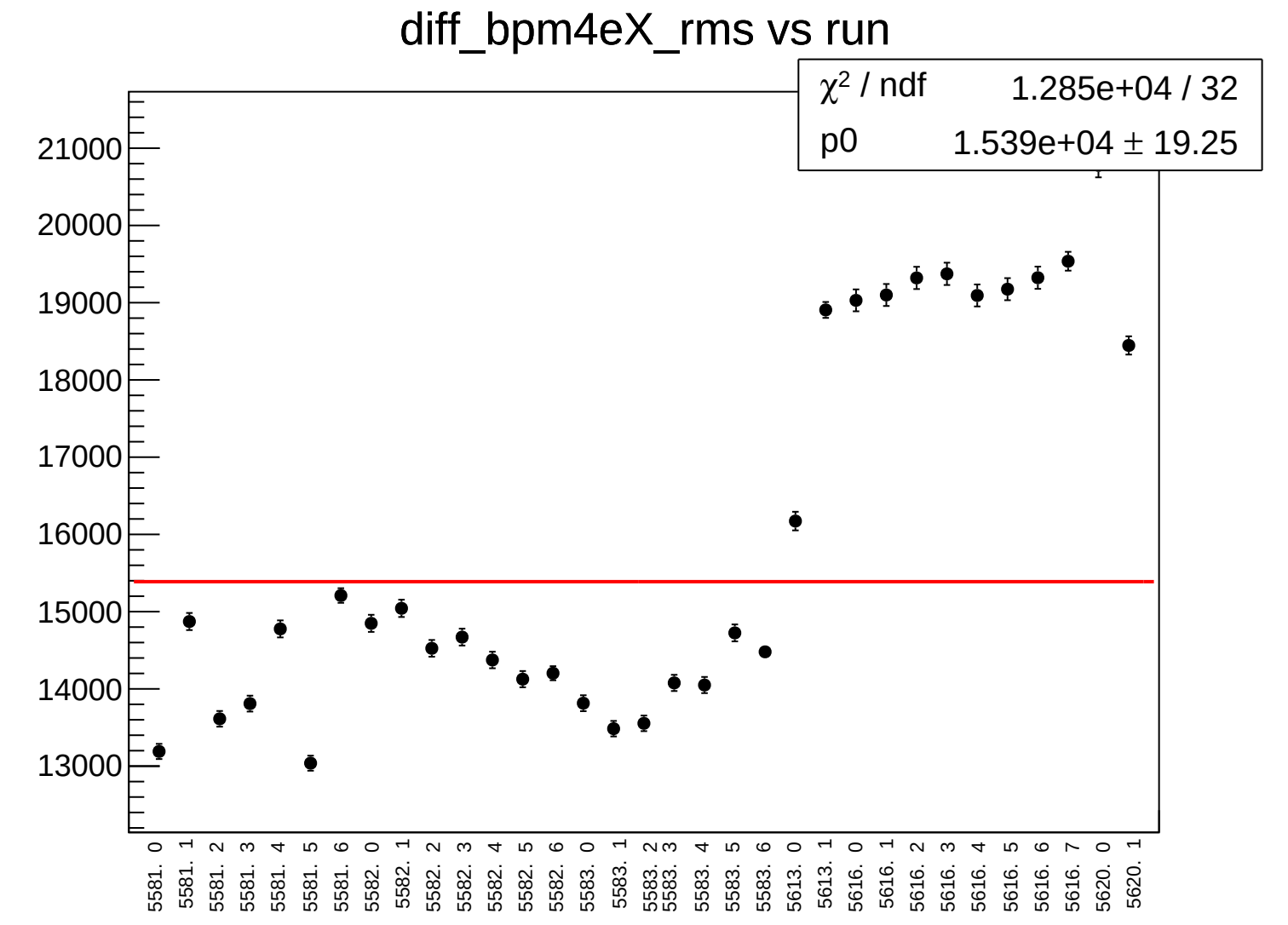

diff_bpm4aX_rms vs run
χ² / ndf 2.084e+04 / 32
p0 1.481e+04 ± 18.64
22000
20000
18000
16000
14000
12000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

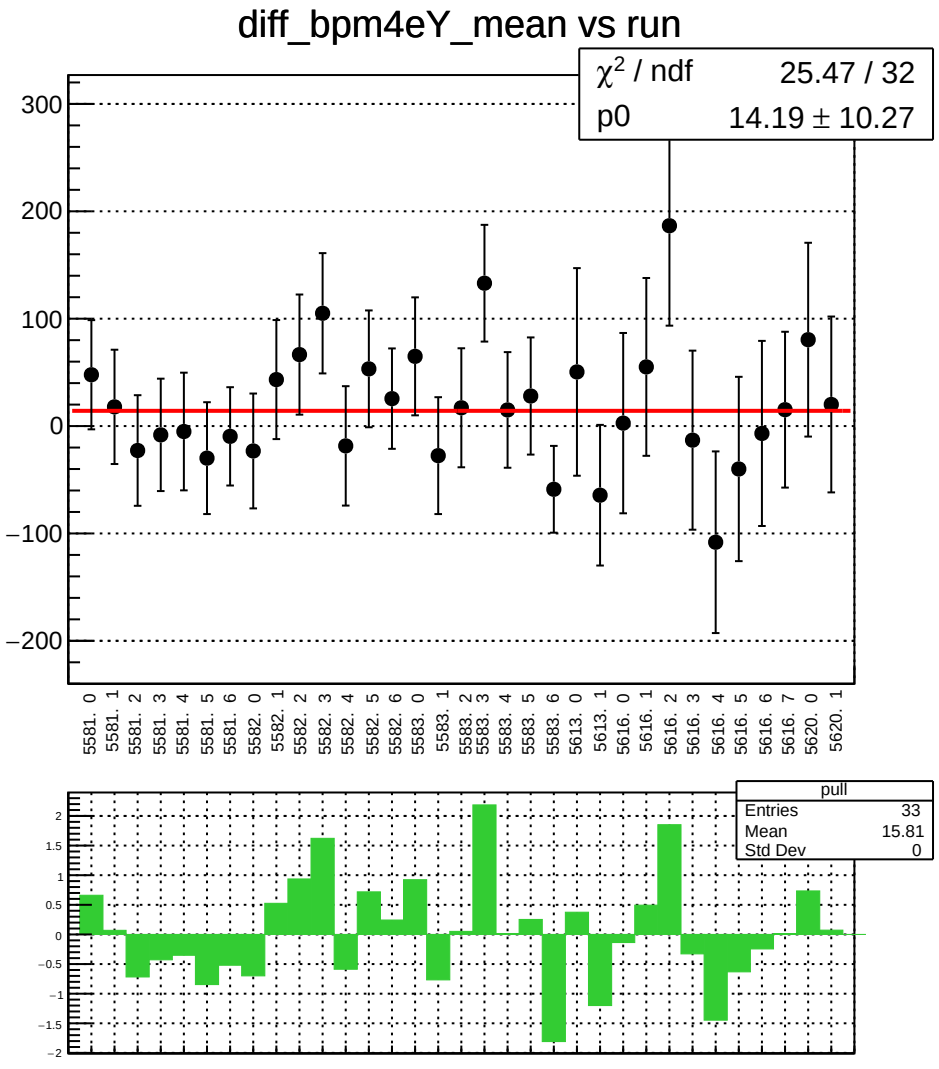

diff_bpm4aY_mean vs run
χ² / ndf 25.03 / 32
p0 20.39 ± 13.4
400
300
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −12.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

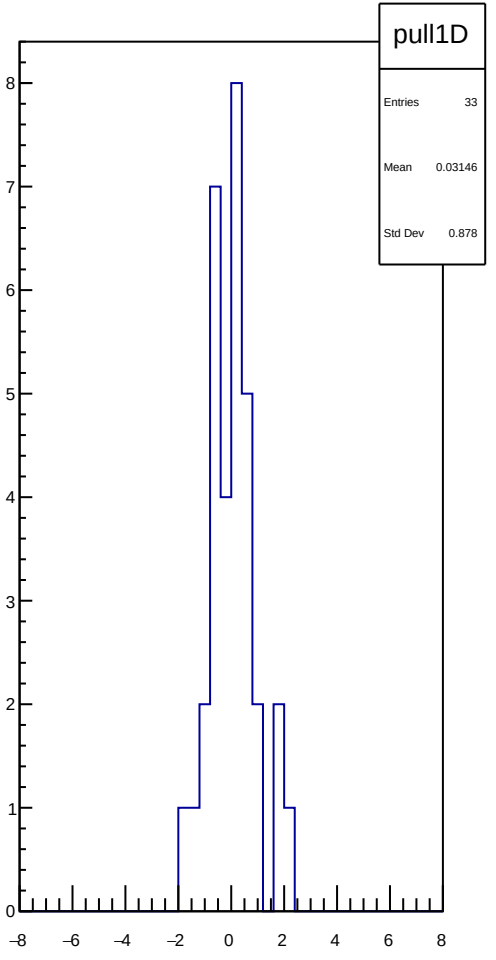

pull1D
Entries 33
Mean 0.01723
Std Dev 0.8707
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

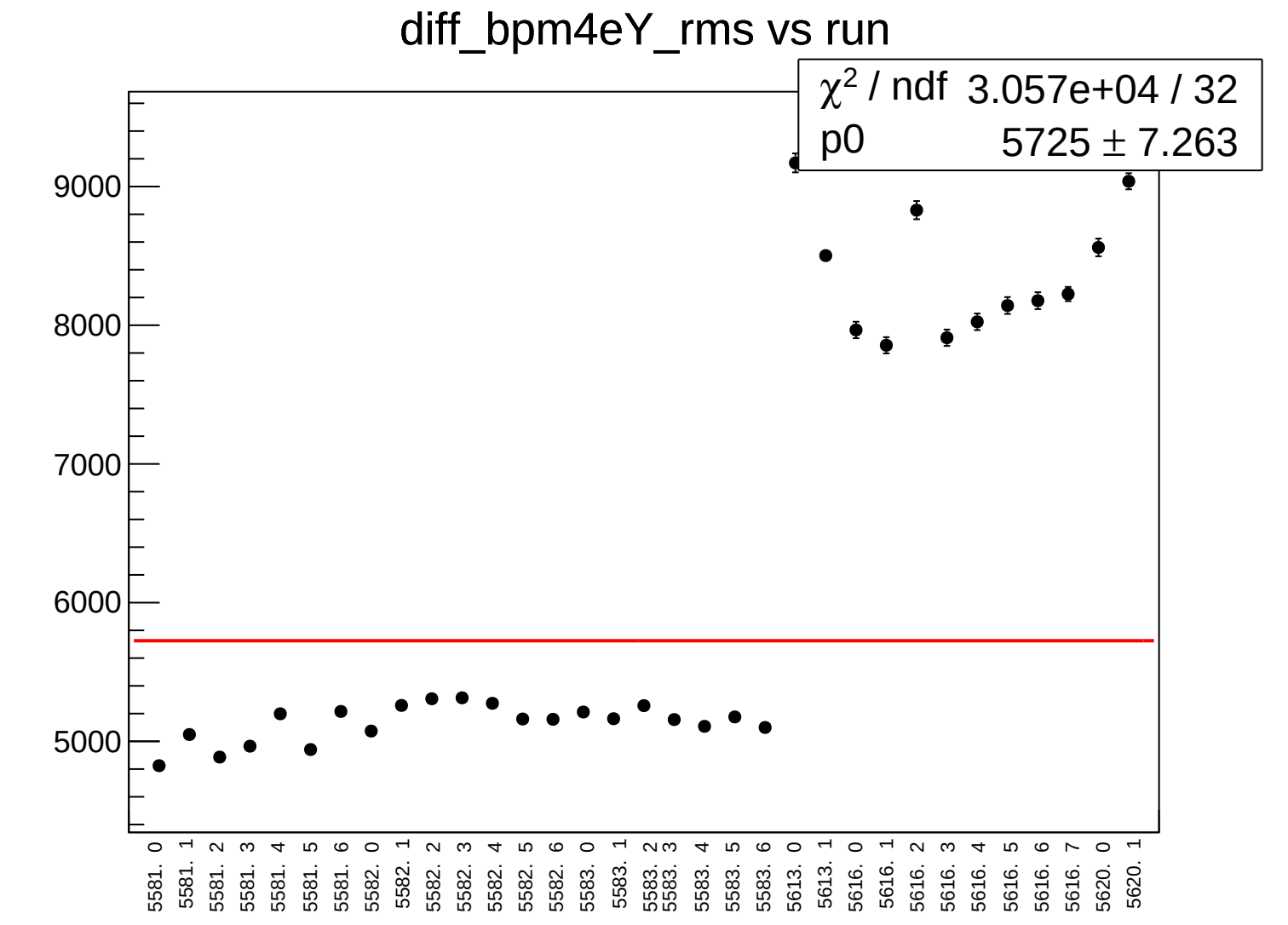

diff_bpm4aY_rms vs run
χ² / ndf 3.183e+04 / 32
p0 7464 ± 9.479
12000
11000
10000
9000
8000
7000
6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

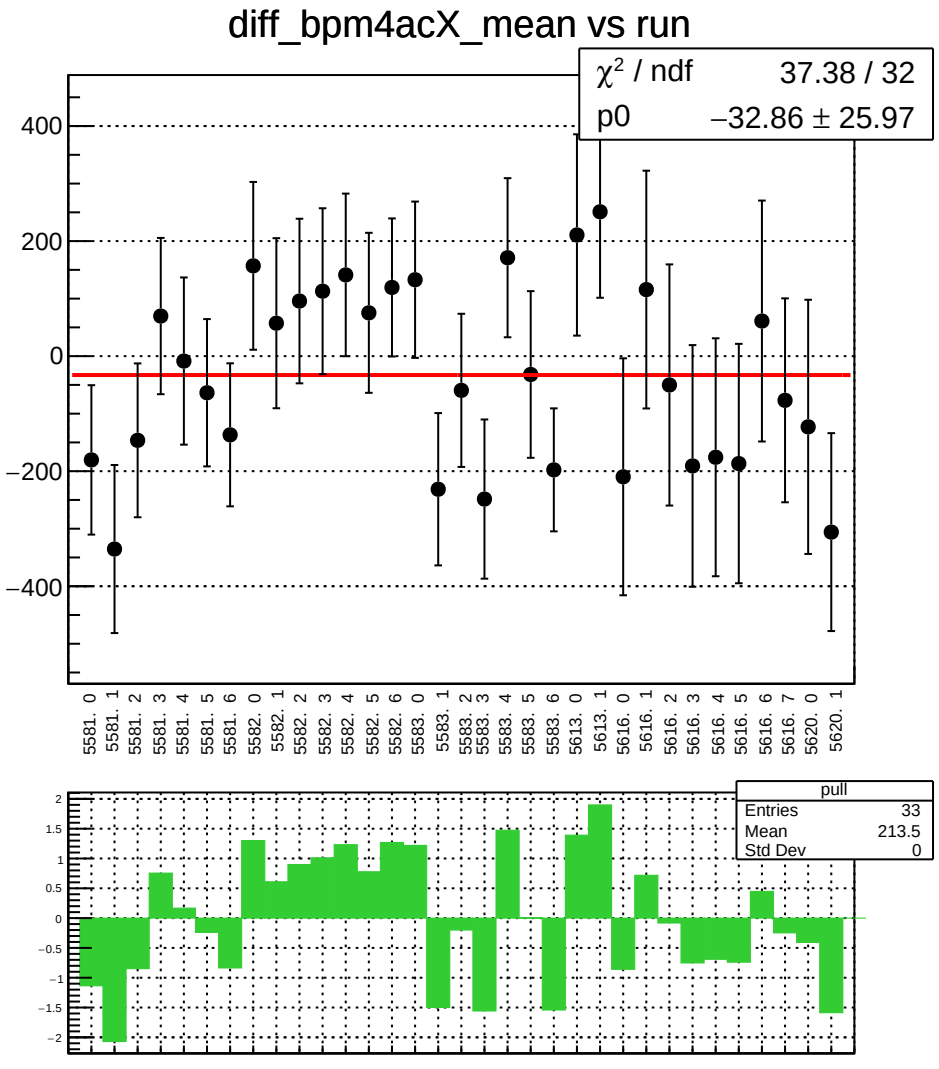

diff_bpm4eX_mean vs run
χ² / ndf 36.46 / 32
p0 −35.7 ± 27.22
400
200
0
−200
−400
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 368.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.001842
Std Dev 1.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

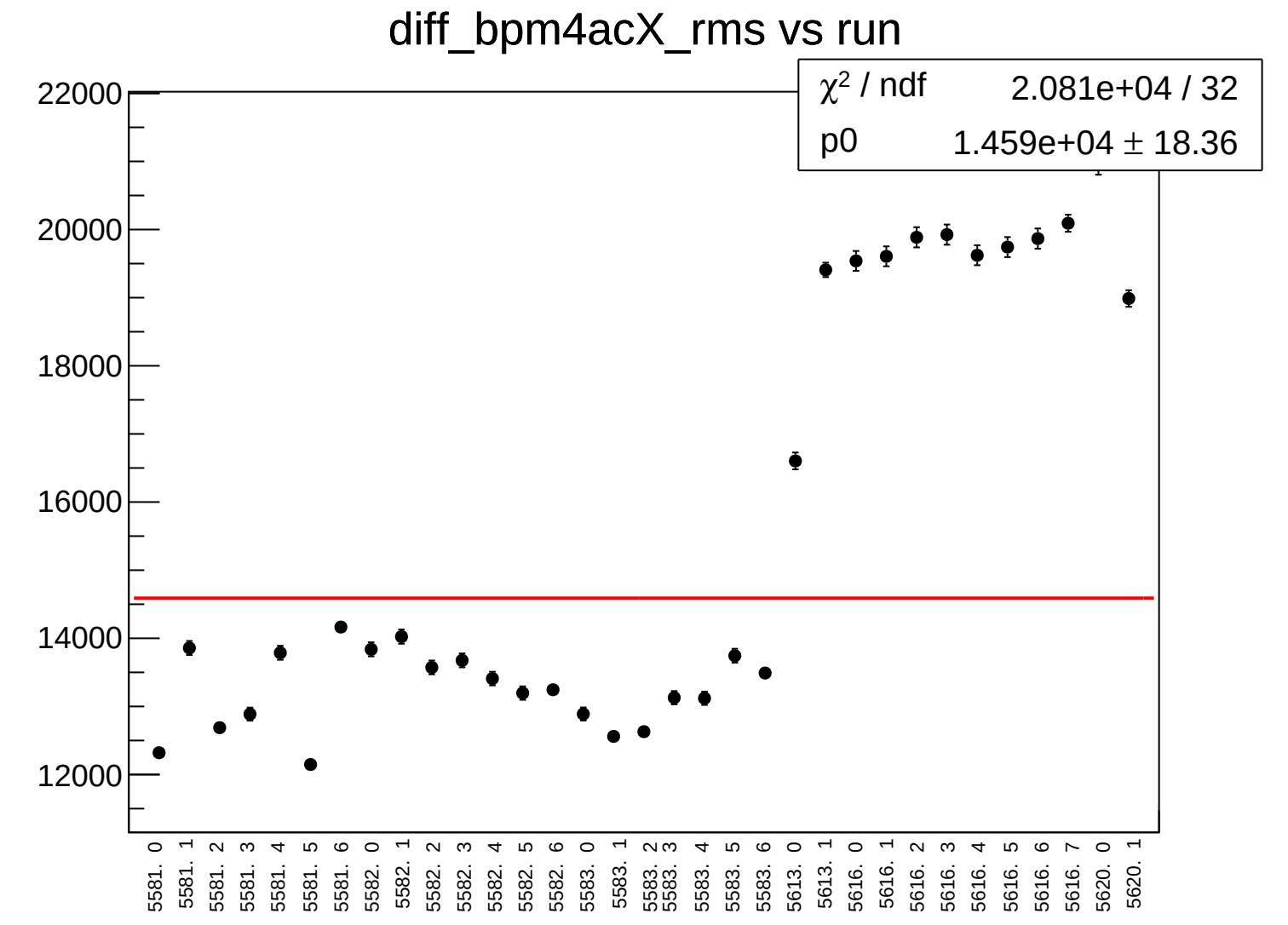

diff_bpm4eX_rms vs run
χ² / ndf 1.285e+04 / 32
p0 1.539e+04 ± 19.25
21000
20000
19000
18000
17000
16000
15000
14000
13000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

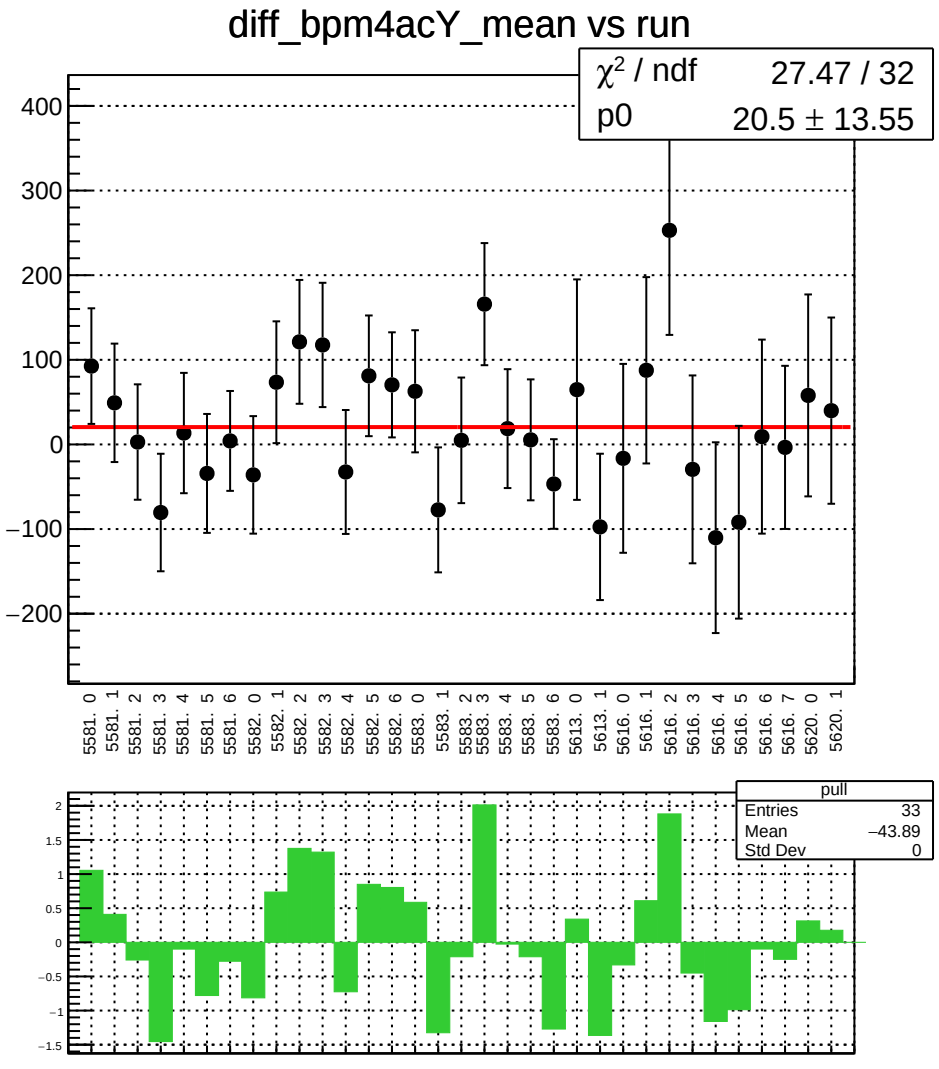

diff_bpm4eY_mean vs run
χ^2 / ndf 25.47 / 32
p0 14.19 ± 10.27
300
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 15.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

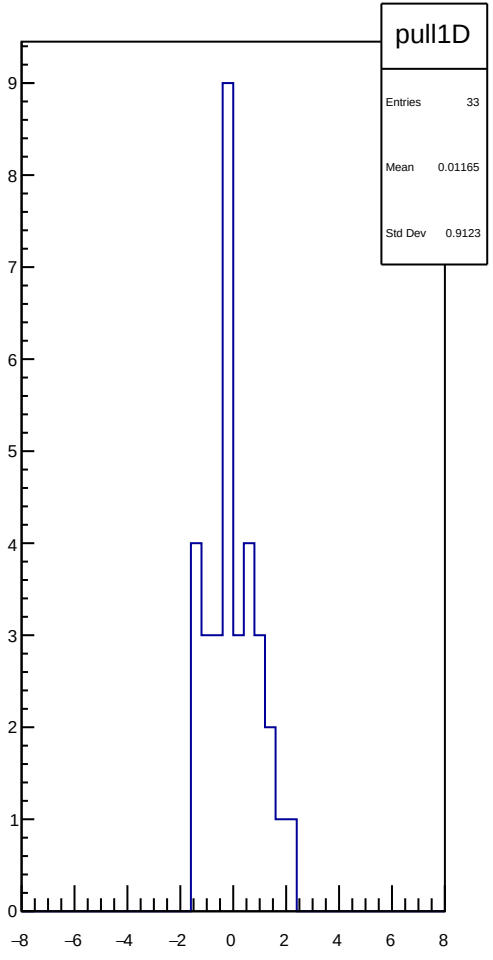

pull1D
Entries 33
Mean 0.03146
Std Dev 0.878
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

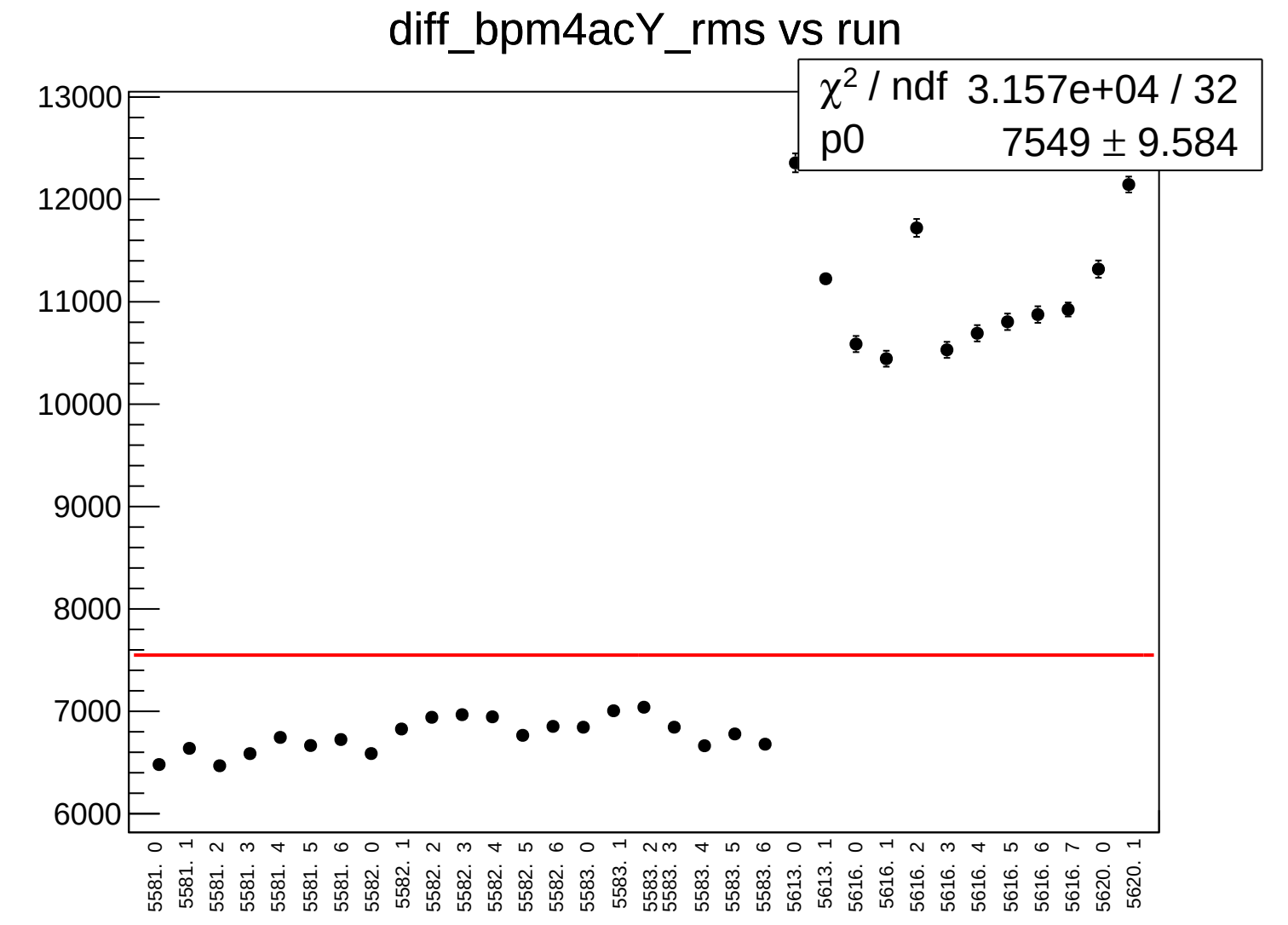

diff_bpm4eY_rms vs run
χ² / ndf 3.057e+04 / 32
p0 5725 ± 7.263
9000
8000
7000
6000
5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

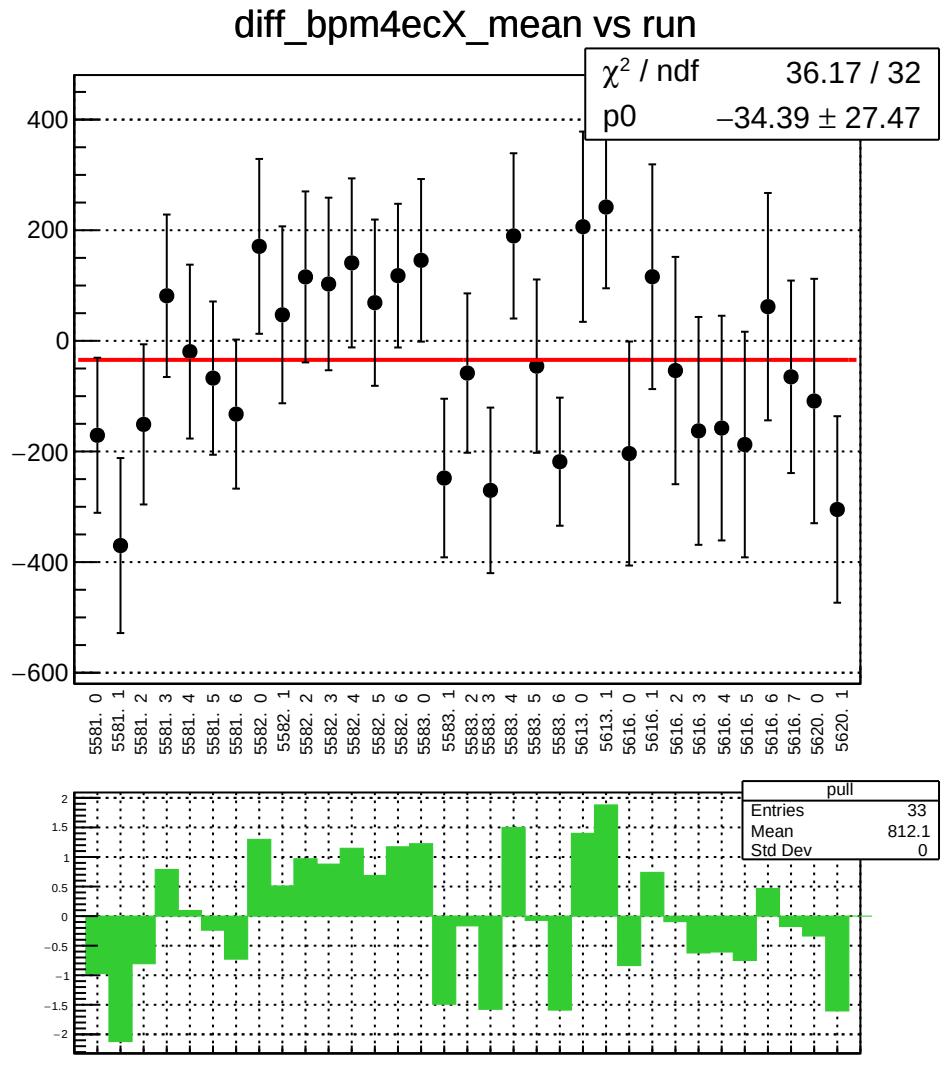

diff_bpm4acX_mean vs run
χ² / ndf 37.38 / 32
p0 −32.86 ± 25.97
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 213.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.003572
Std Dev 1.064
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

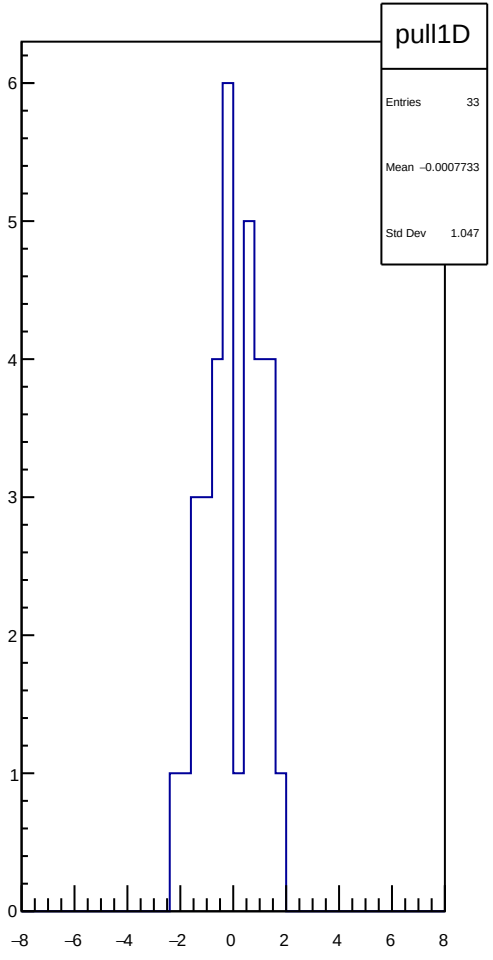

diff_bpm4acX_rms vs run
χ² / ndf 2.081e+04 / 32
p0 1.459e+04 ± 18.36
22000
20000
18000
16000
14000
12000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

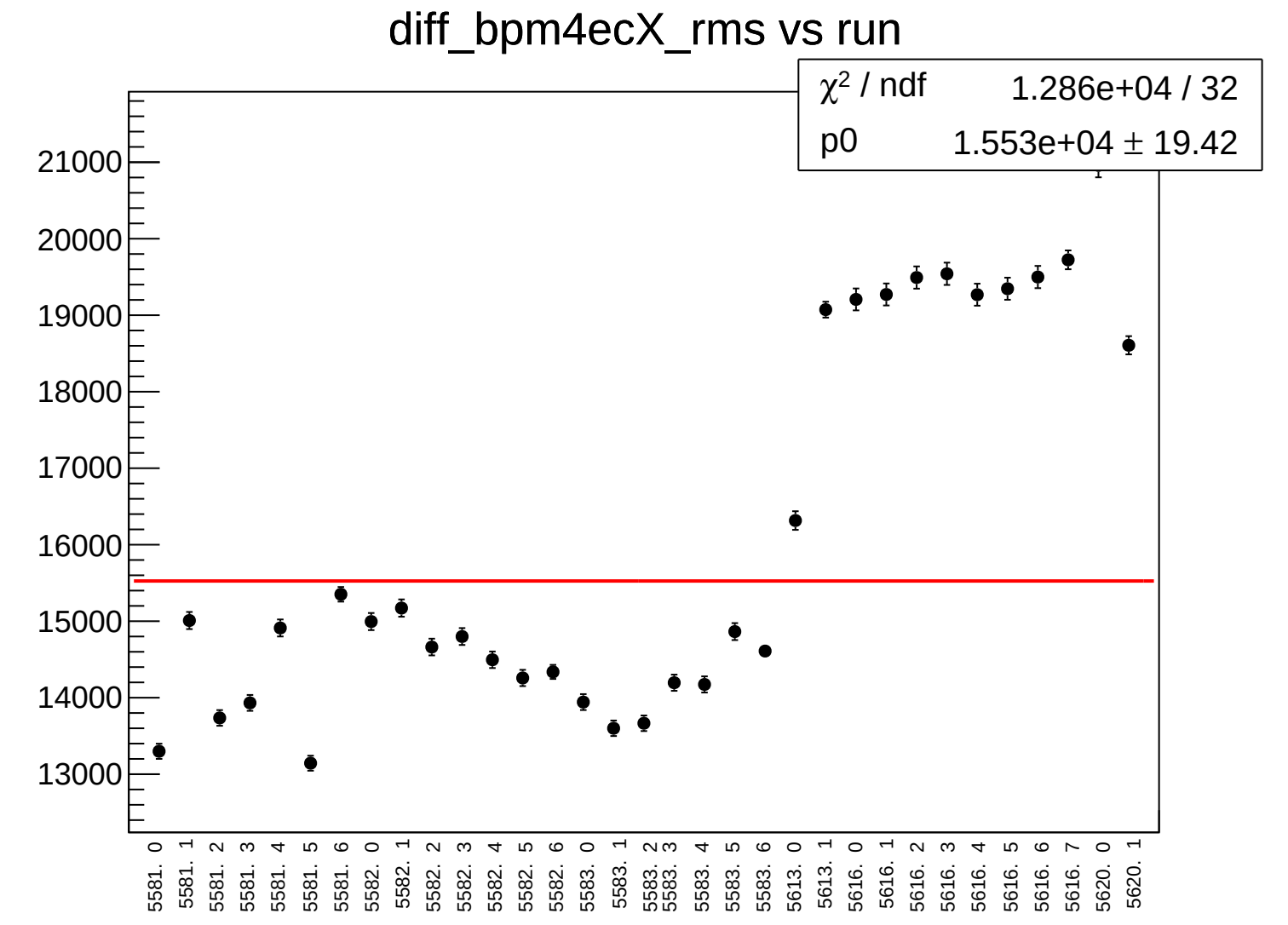

diff_bpm4acY_mean vs run
χ² / ndf 27.47 / 32
p0 20.5 ± 13.55
400
300
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −43.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

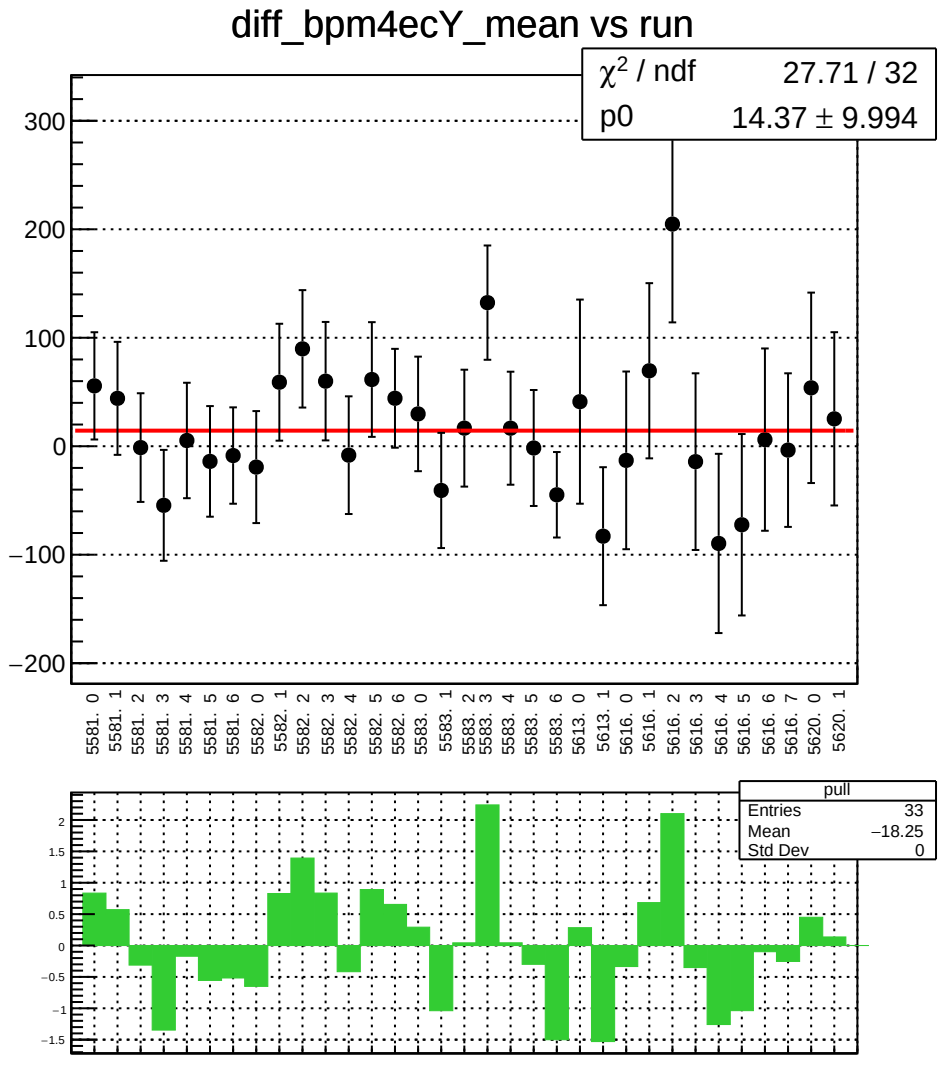

pull1D
Entries 33
Mean 0.01165
Std Dev 0.9123
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

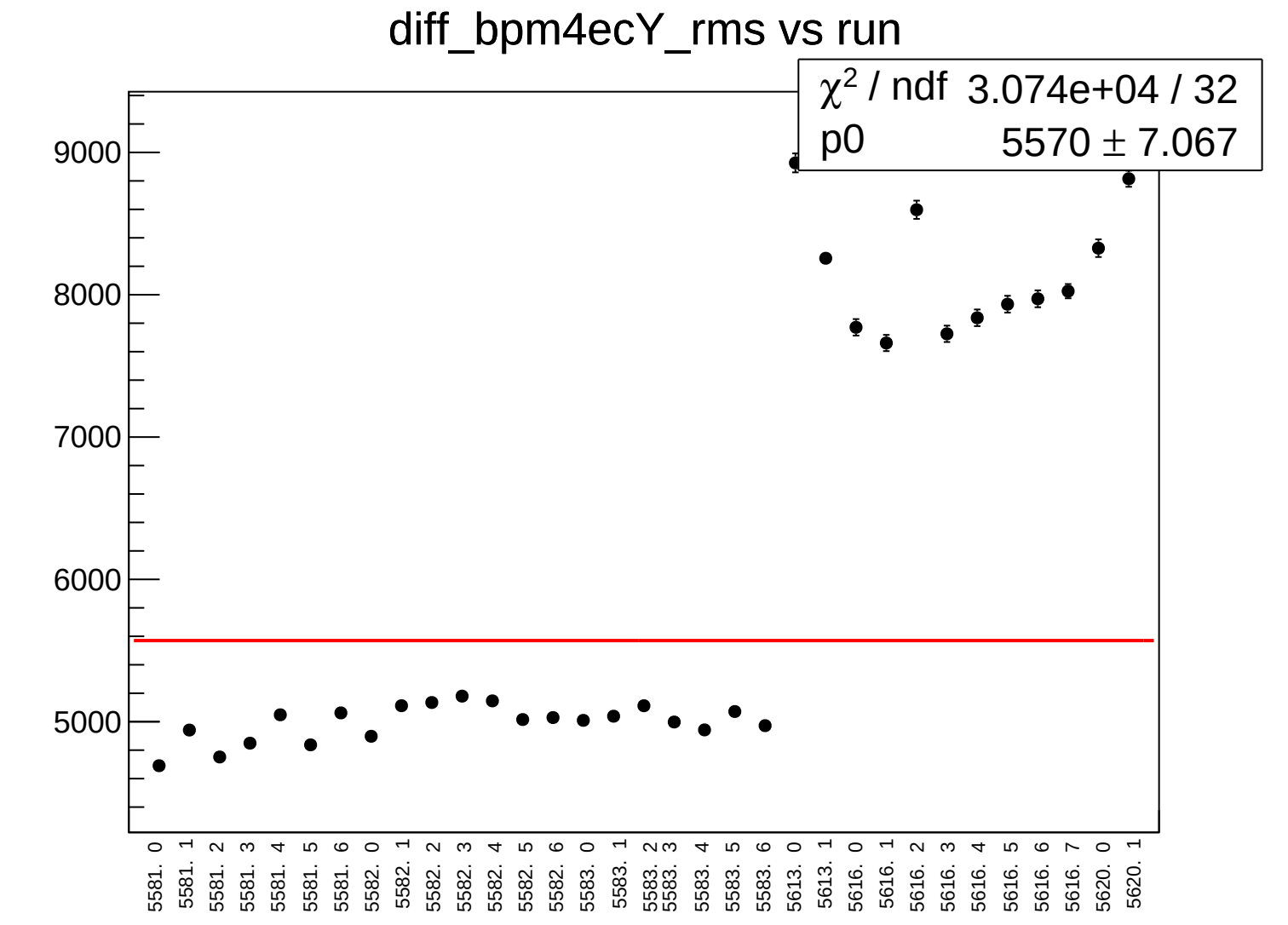

diff_bpm4acY_rms vs run
χ² / ndf 3.157e+04 / 32
p0 7549 ± 9.584
13000
12000
11000
10000
9000
8000
7000
6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

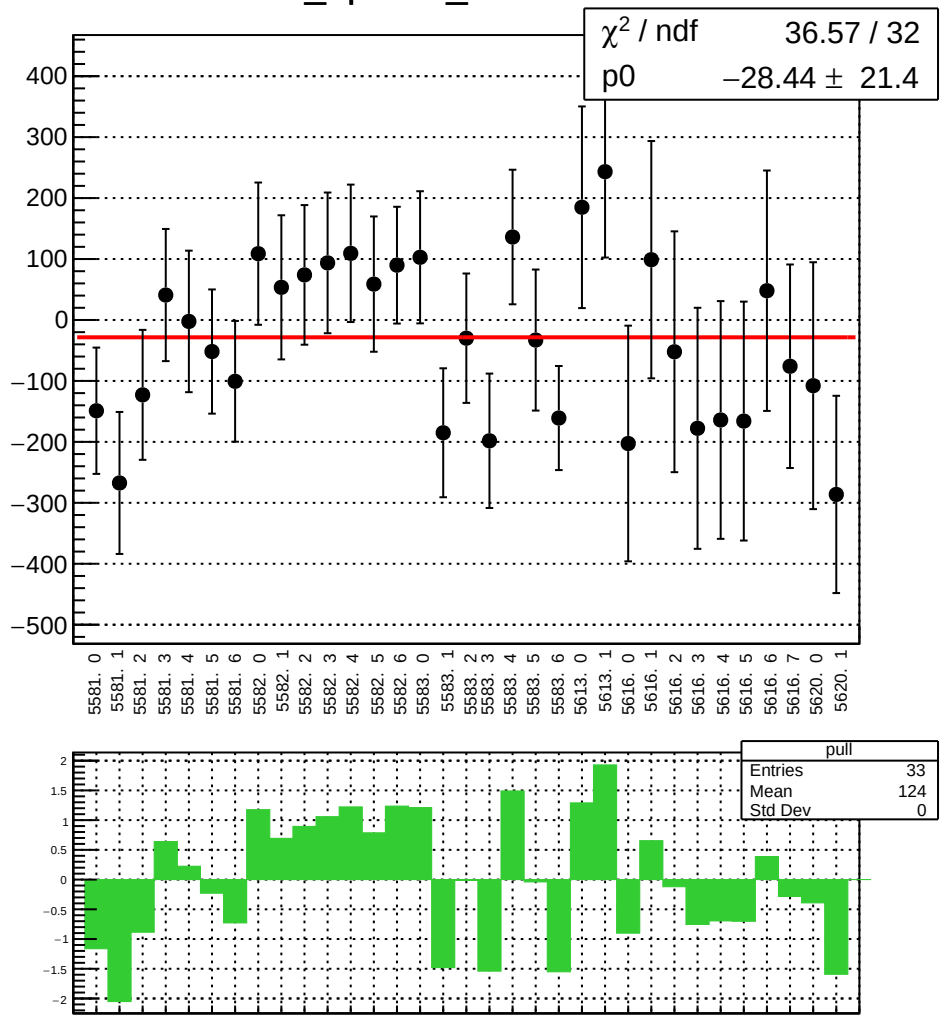

diff_bpm4ecX_mean vs run
χ² / ndf 36.17 / 32
p0 −34.39 ± 27.47
400
200
0
−200
−400
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 812.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

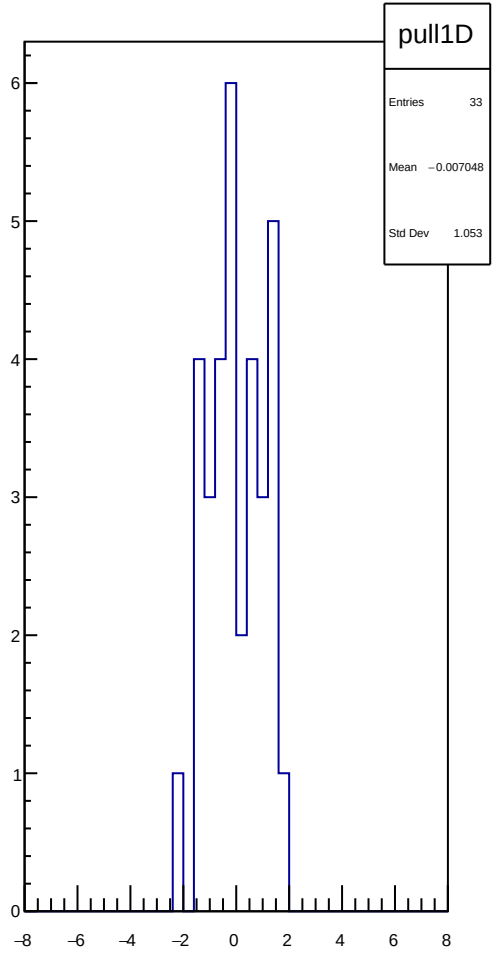

pull1D
Entries 33
Mean −0.0007733
Std Dev 1.047
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

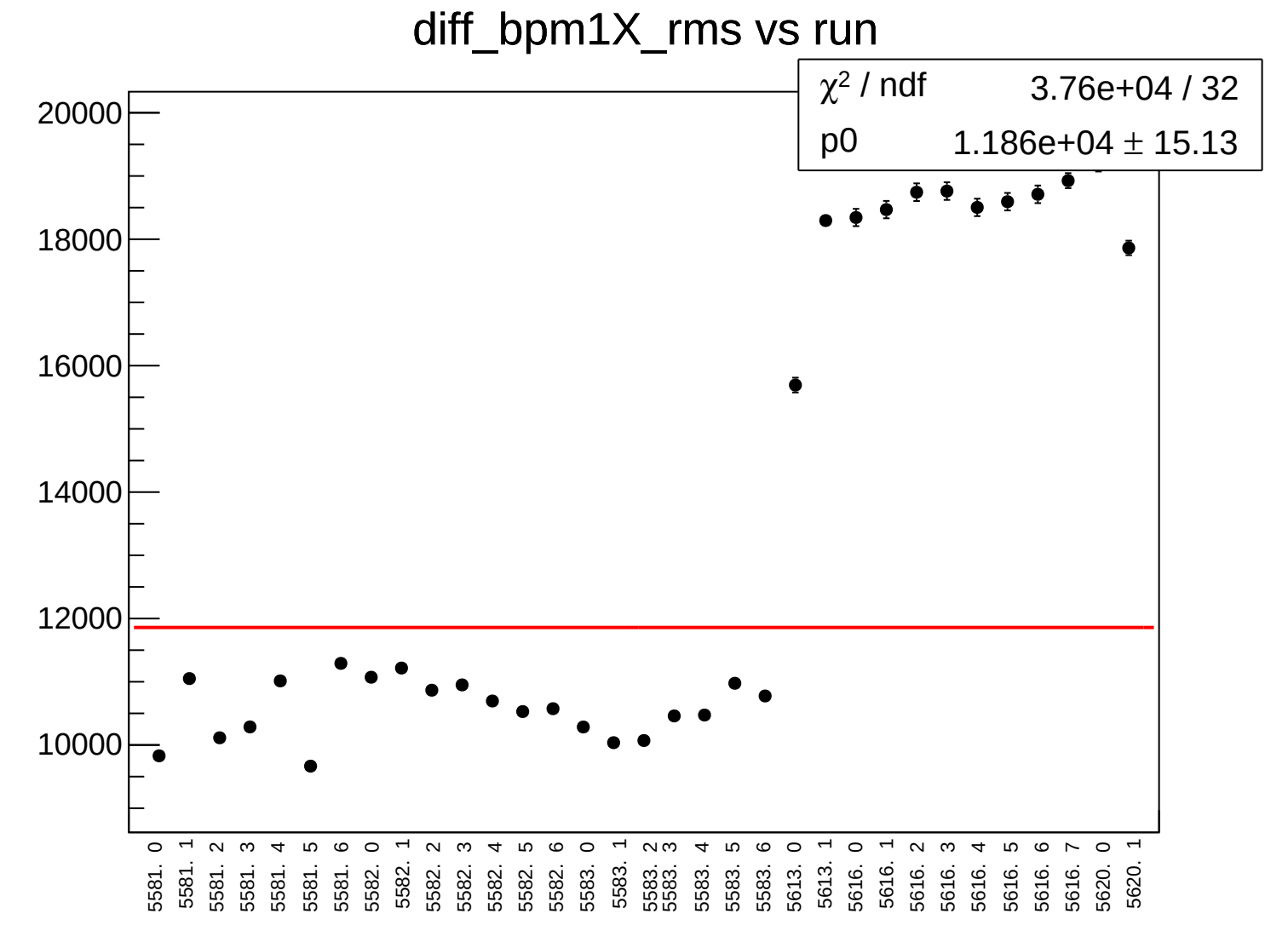

diff_bpm4ecX_rms vs run
χ² / ndf 1.286e+04 / 32
p0 1.553e+04 ± 19.42
21000
20000
19000
18000
17000
16000
15000
14000
13000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

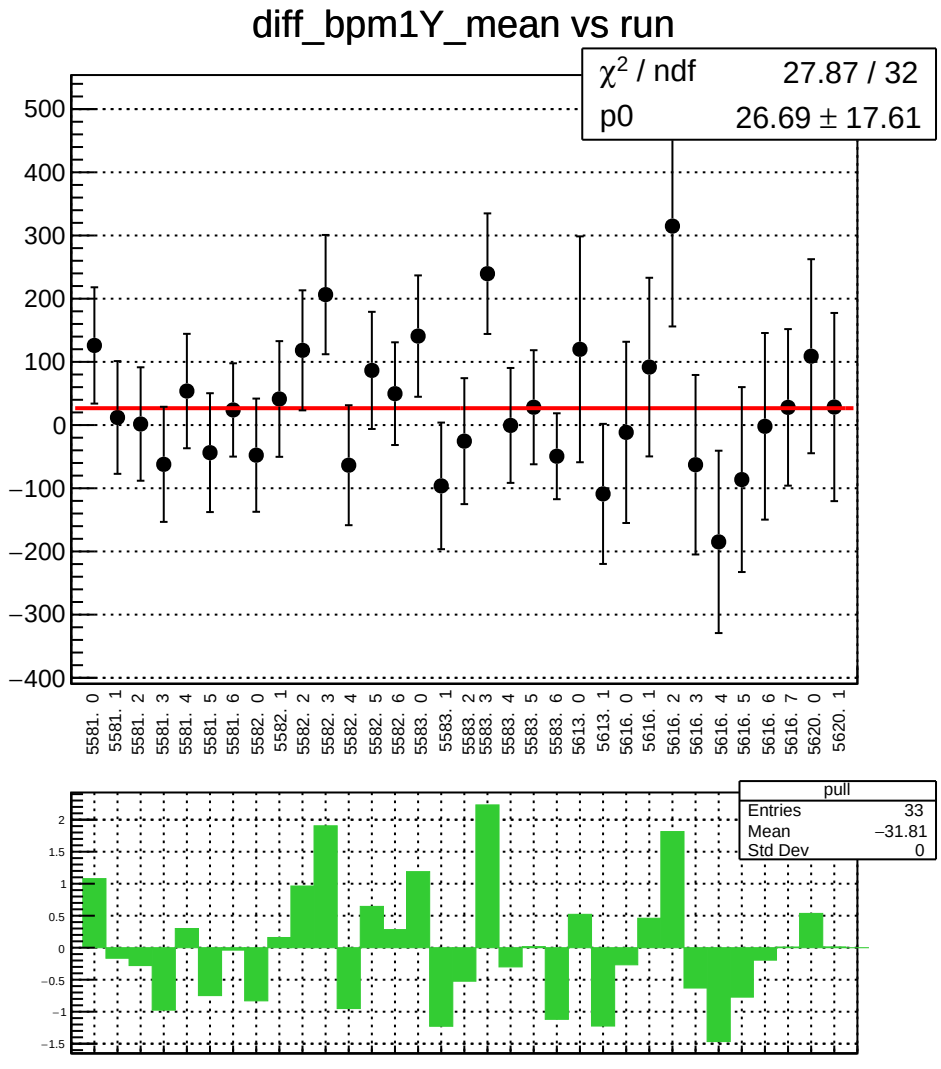

diff_bpm4ecY_mean vs run
χ² / ndf 27.71 / 32
p0 14.37 ± 9.994
300
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −18.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.01853
Std Dev 0.9161
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

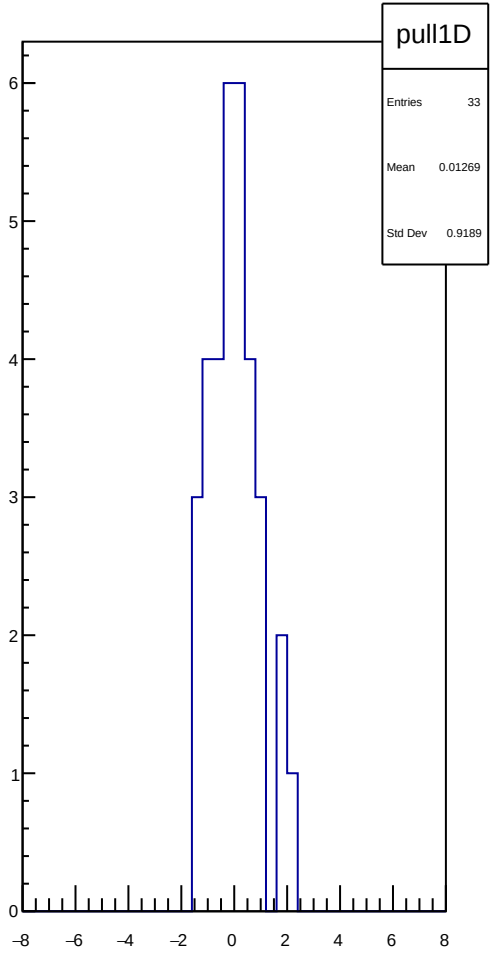

diff_bpm4ecY_rms vs run
χ² / ndf 3.074e+04 / 32
p0 5570 ± 7.067
9000
8000
7000
6000
5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

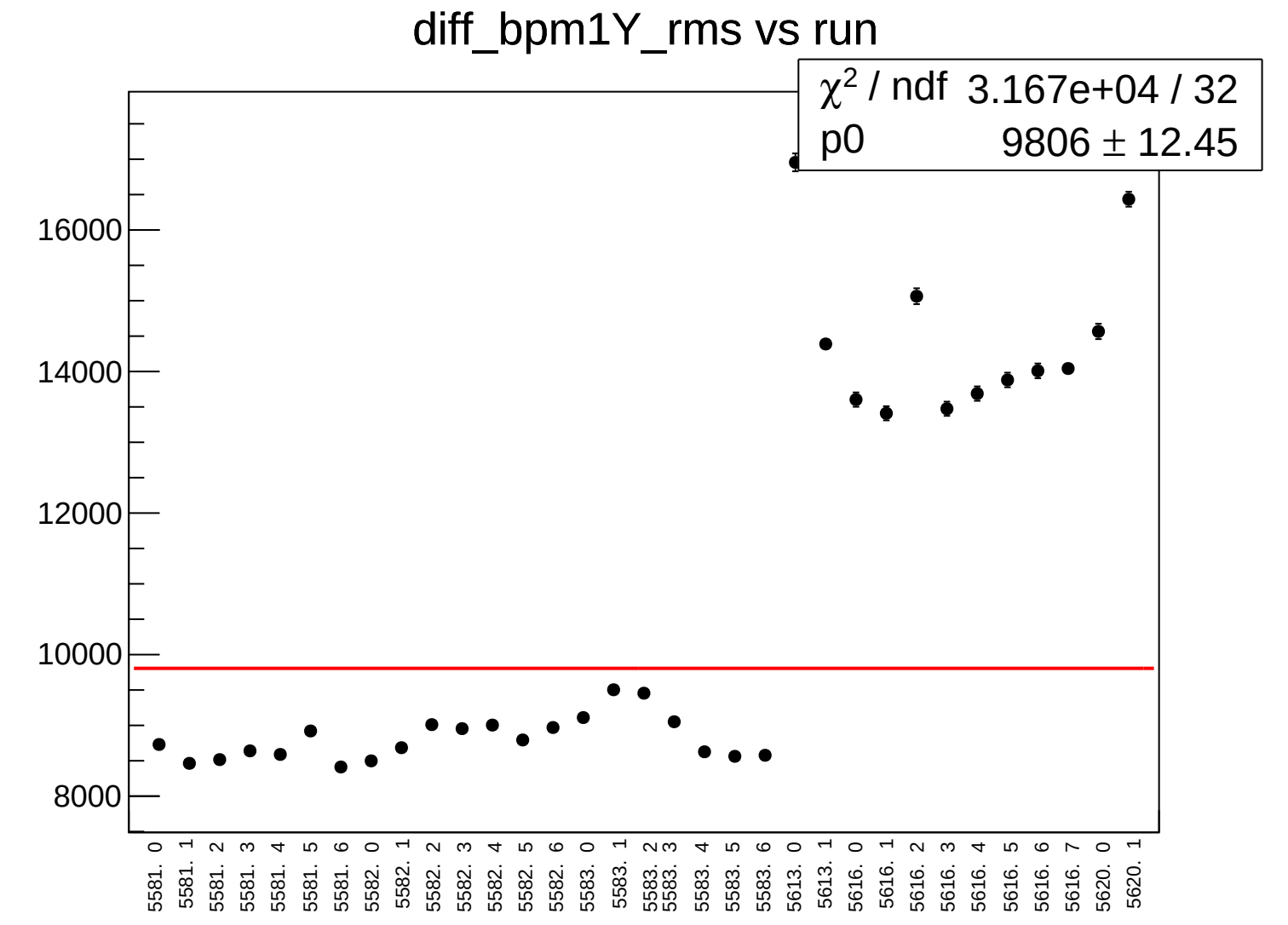

diff_bpm1X_mean vs run
χ² / ndf 36.57 / 32
p0 −28.44 ± 21.4
400
300
200
100
0
−100
−200
−300
−400
−500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 124
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

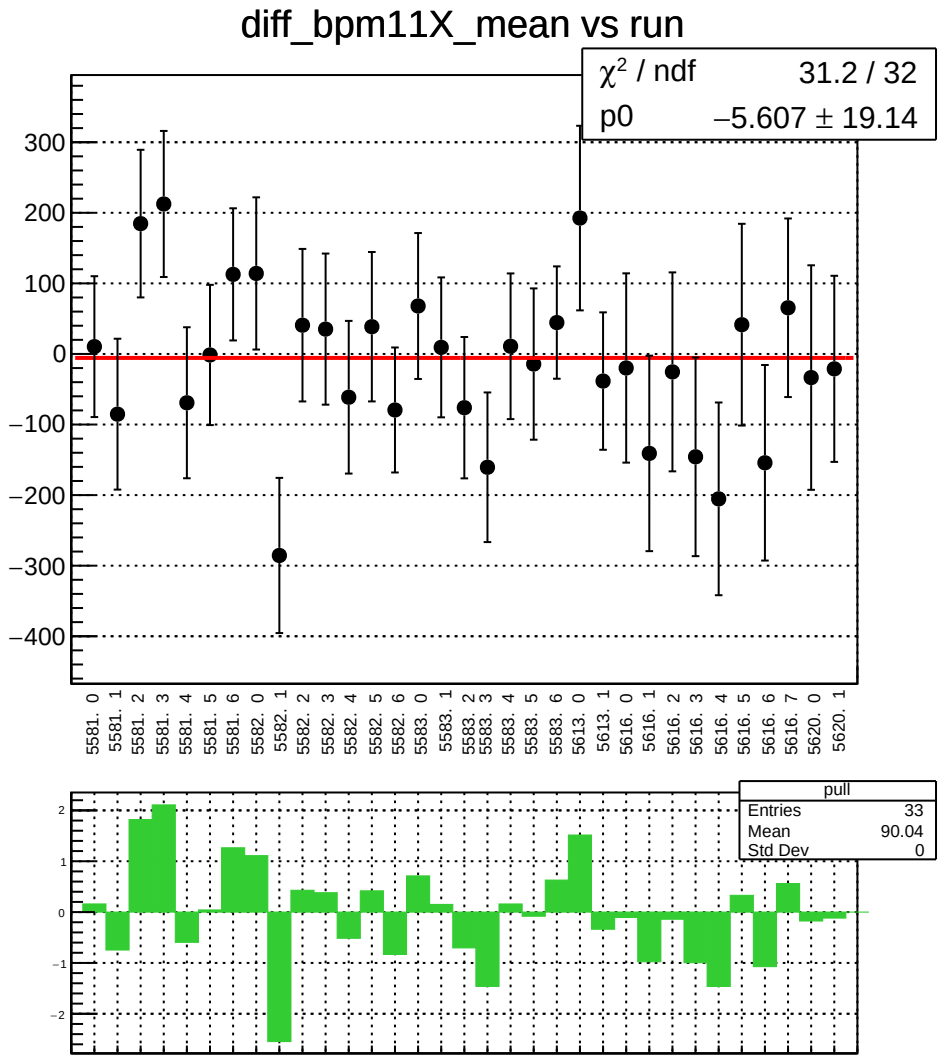

pull1D
Entries 33
Mean −0.007048
Std Dev 1.053
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

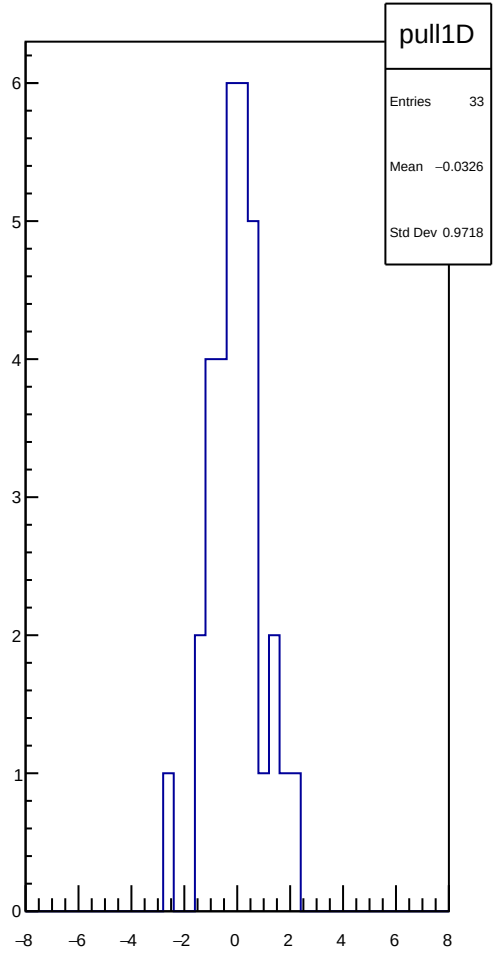

diff_bpm1X_rms vs run
χ² / ndf 3.76e+04 / 32
p0 1.186e+04 ± 15.13
20000
18000
16000
14000
12000
10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

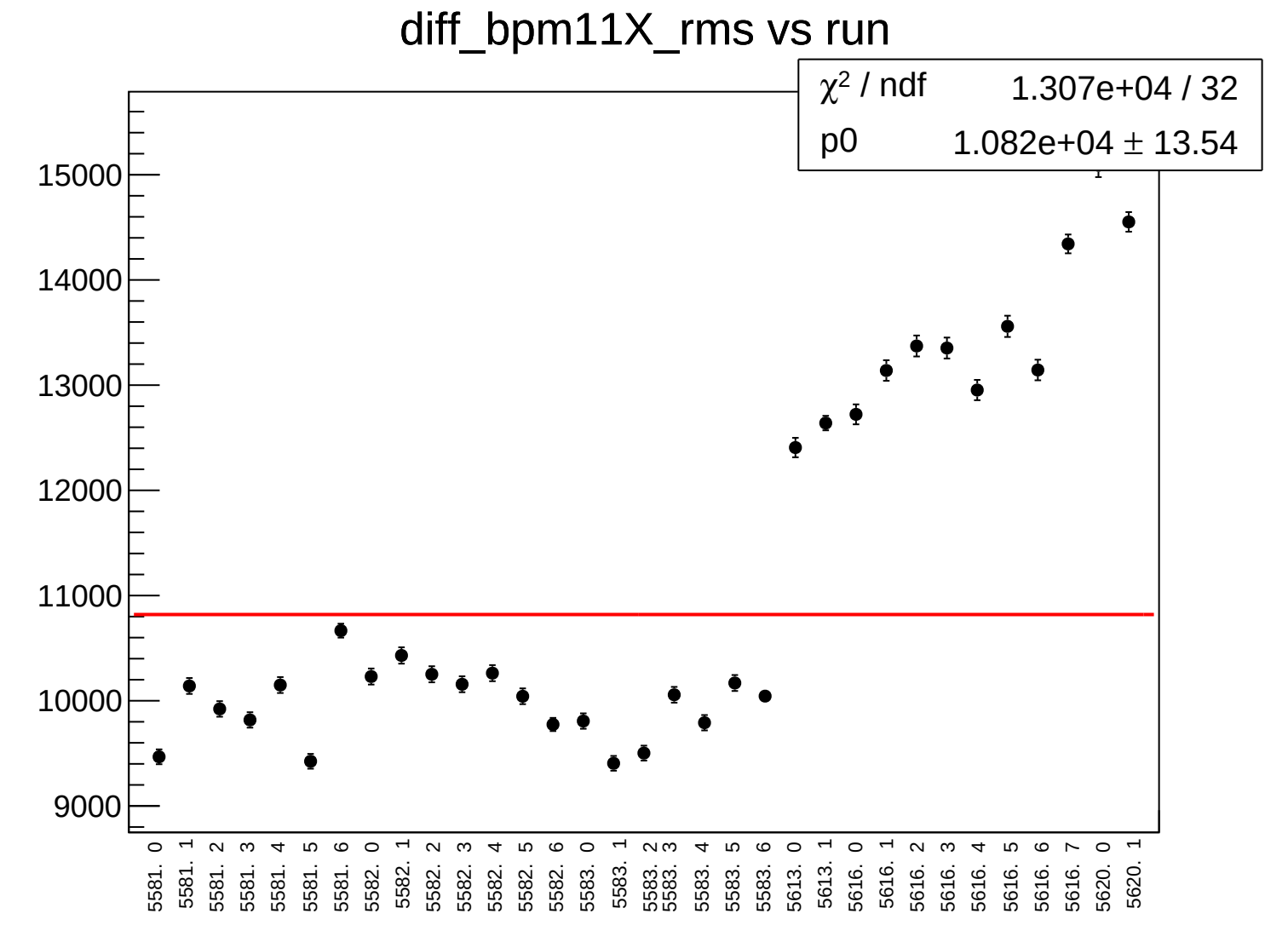

diff_bpm1Y_mean vs run
χ^2 / ndf 27.87 / 32
p0 26.69 ± 17.61
pull
Entries 33
Mean −31.81
Std Dev 0

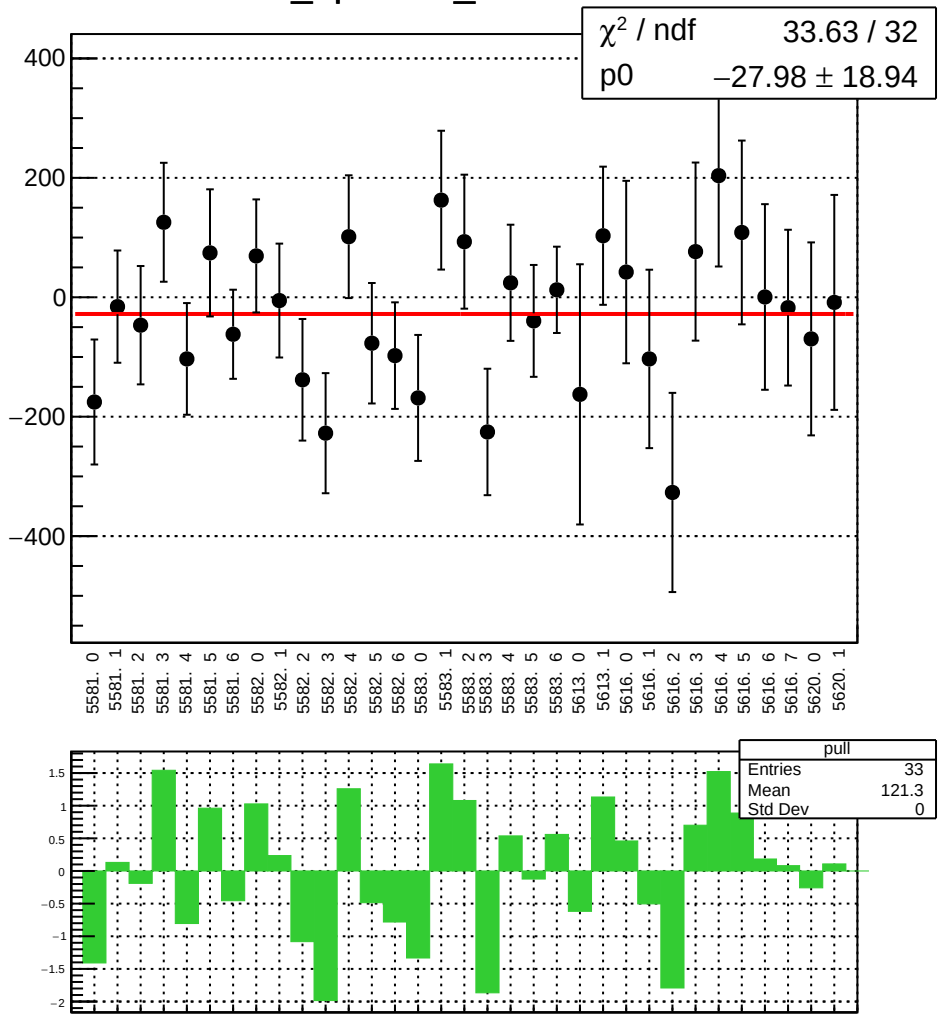

pull1D
Entries 33
Mean 0.01269
Std Dev 0.9189

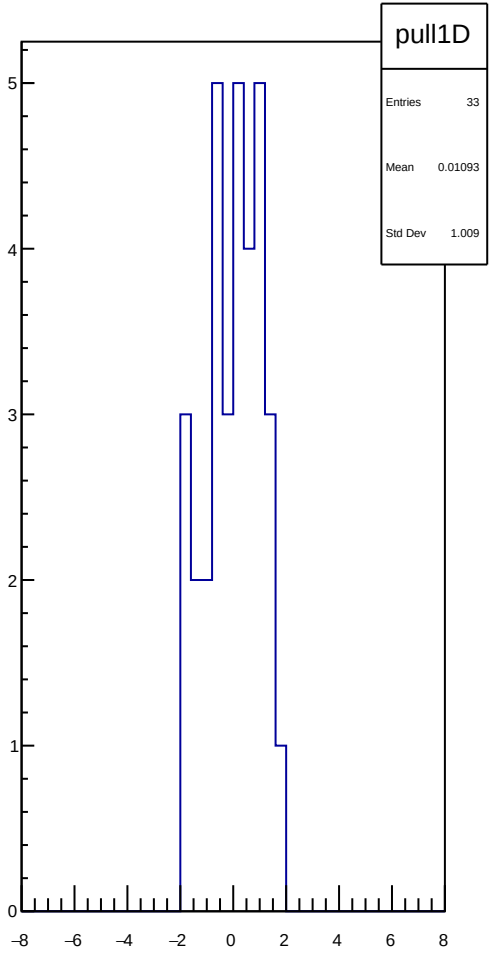

diff_bpm1Y_rms vs run
χ² / ndf 3.167e+04 / 32
p0 9806 ± 12.45
16000
14000
12000
10000
8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

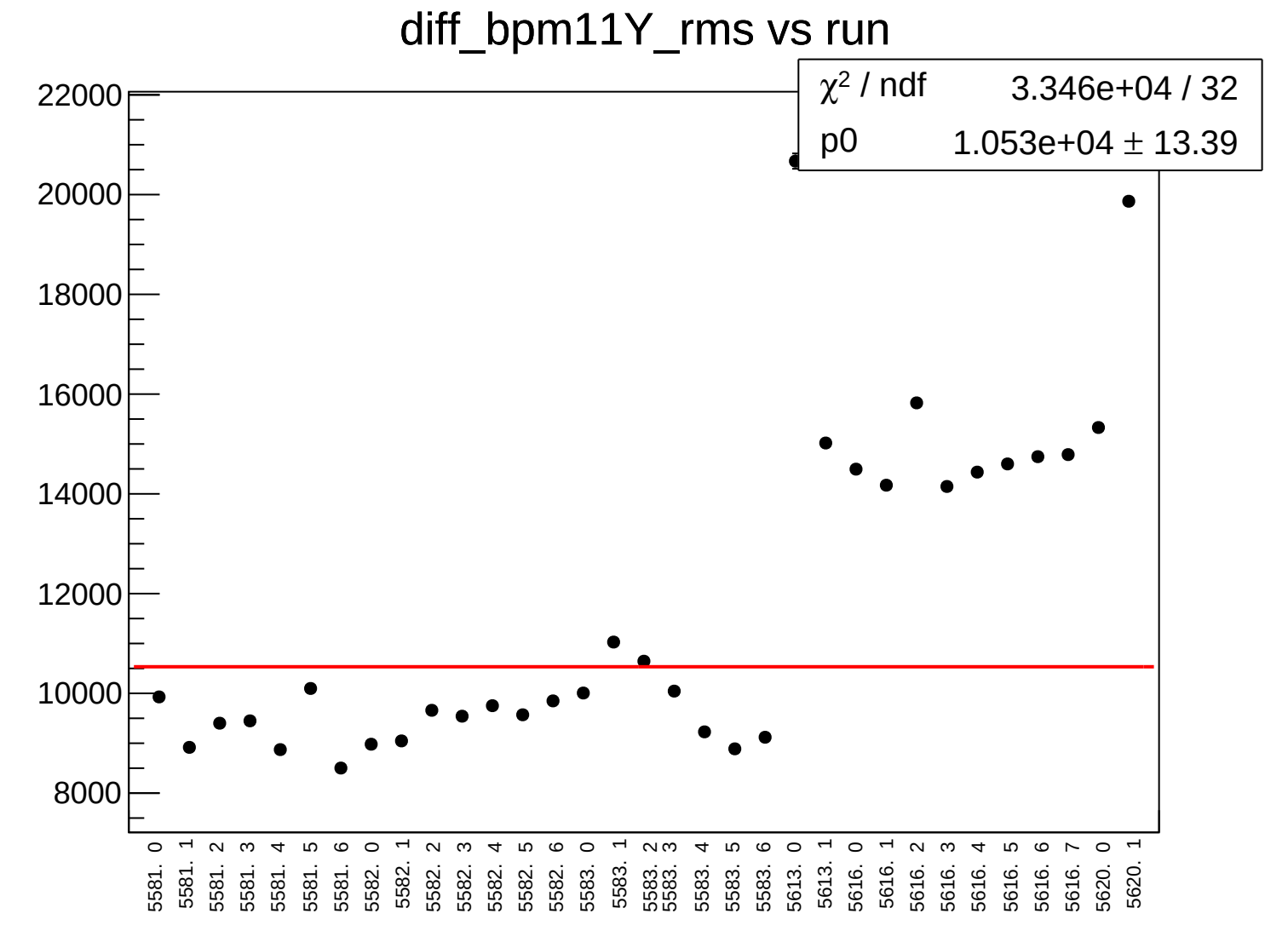

diff_bpm11X_mean vs run
χ² / ndf 31.2 / 32
p0 −5.607 ± 19.14
300
200
100
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 90.04
Std Dev 0
2
1
0
−1
−2

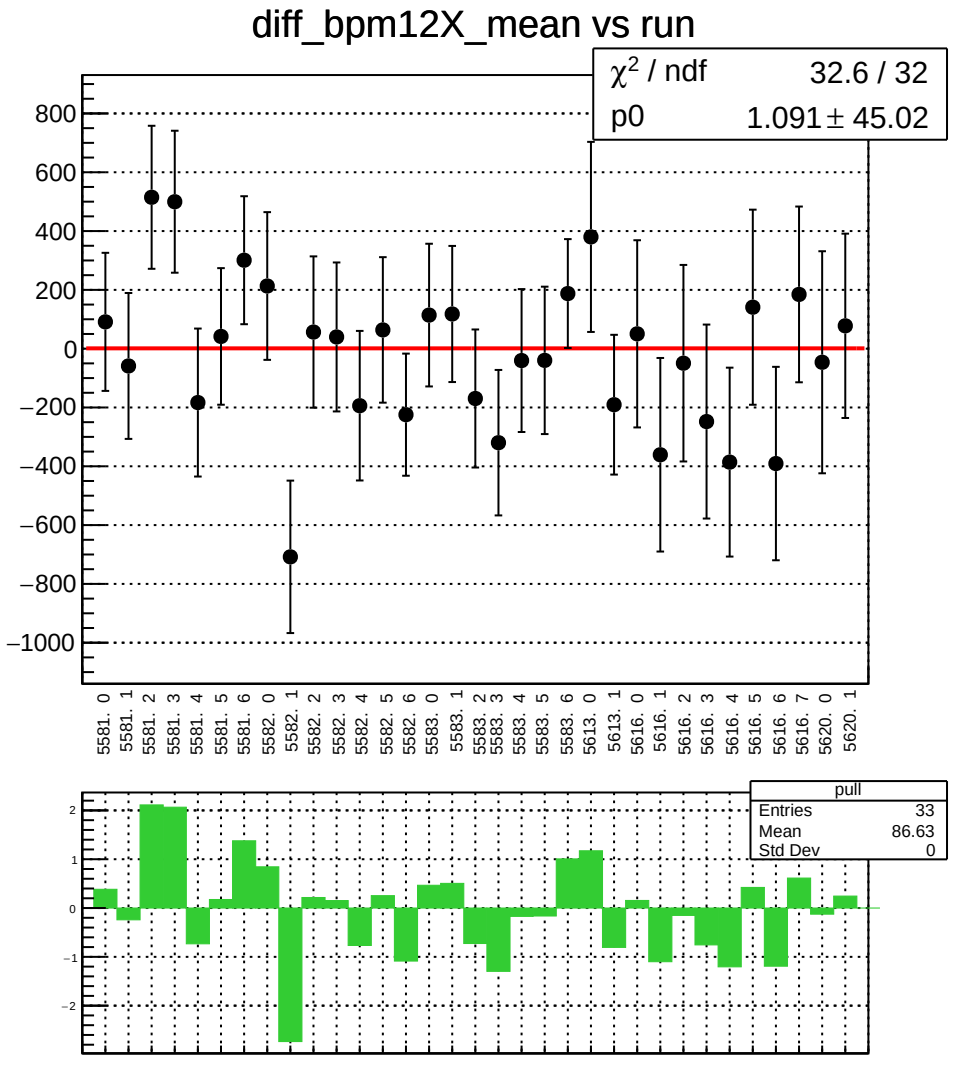

pull1D
Entries 33
Mean −0.0326
Std Dev 0.9718
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

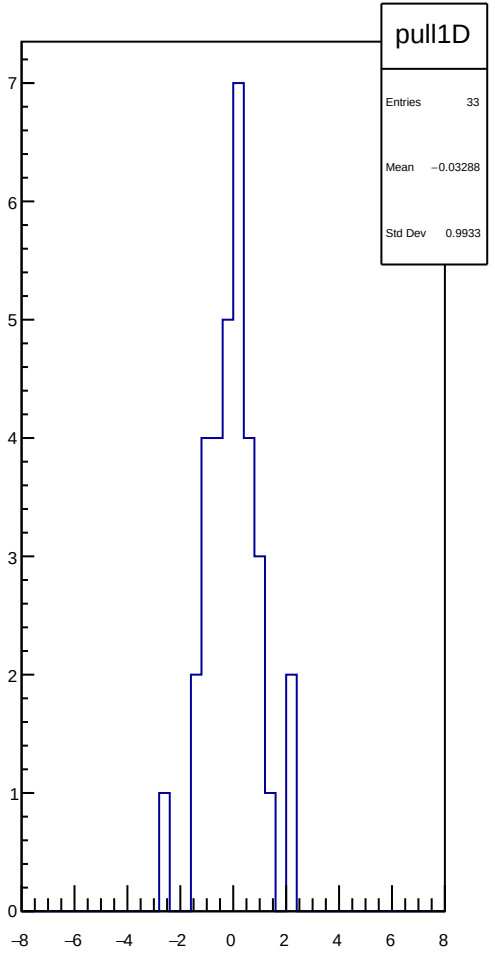

diff_bpm11X_rms vs run
χ² / ndf 1.307e+04 / 32
p0 1.082e+04 ± 13.54
15000
14000
13000
12000
11000
10000
9000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

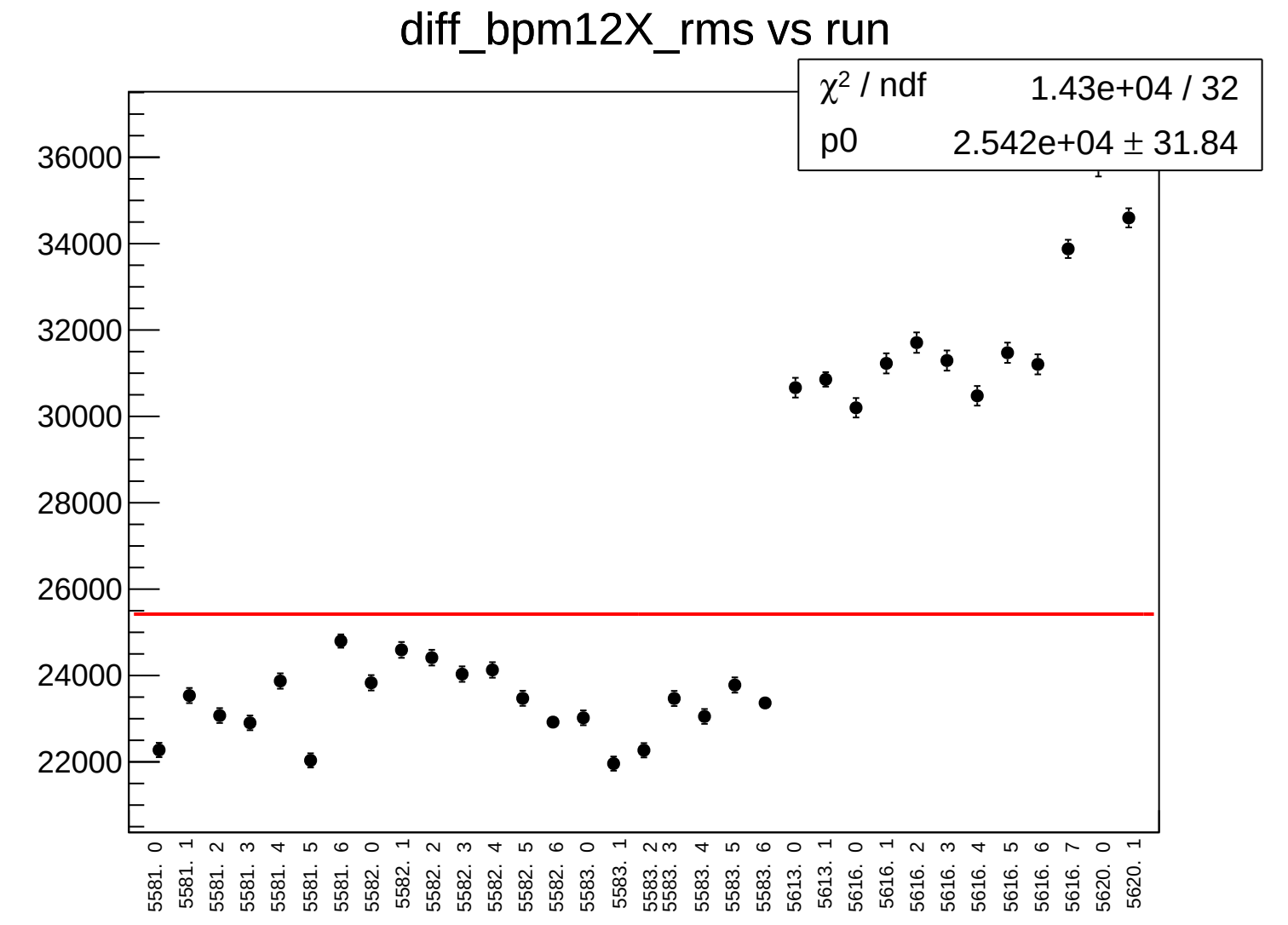

diff_bpm11Y_mean vs run
χ² / ndf 33.63 / 32
p0 −27.98 ± 18.94
400
200
0
−200
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 121.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

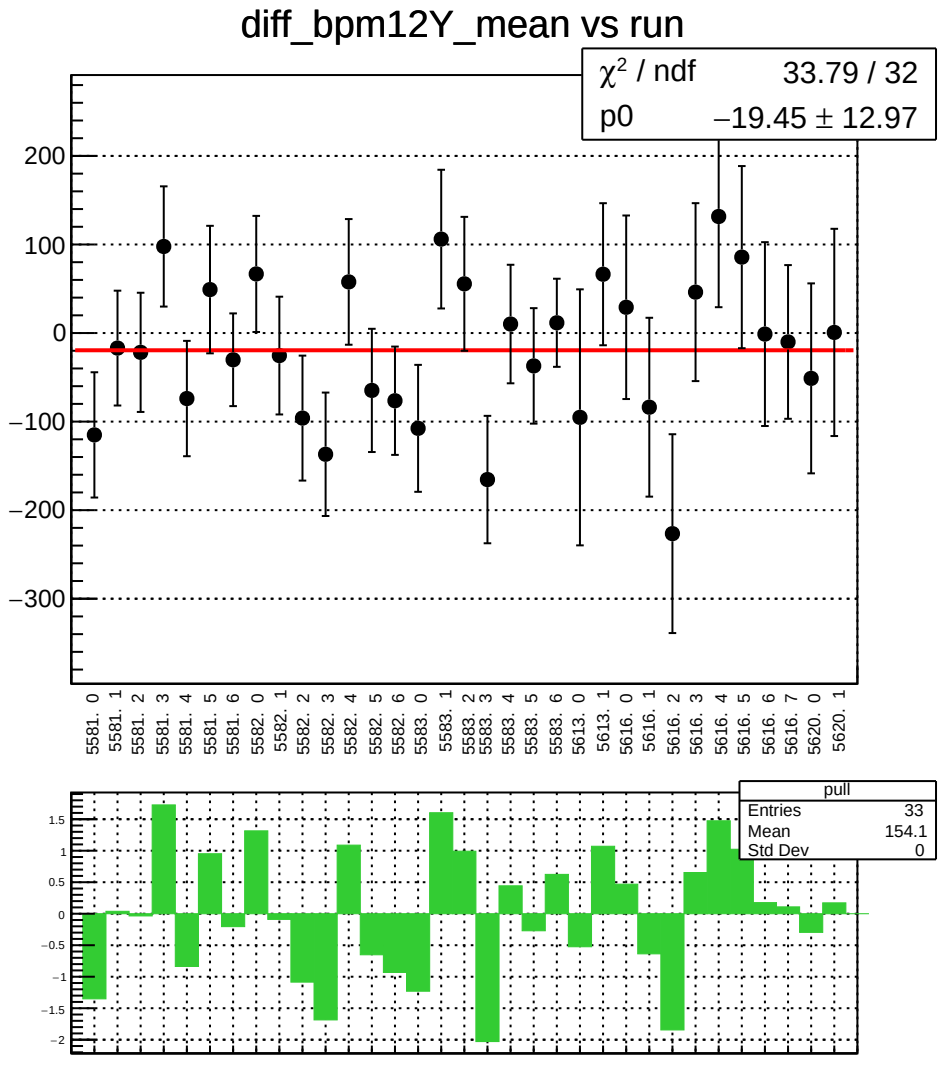

pull1D
Entries 33
Mean 0.01093
Std Dev 1.009
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

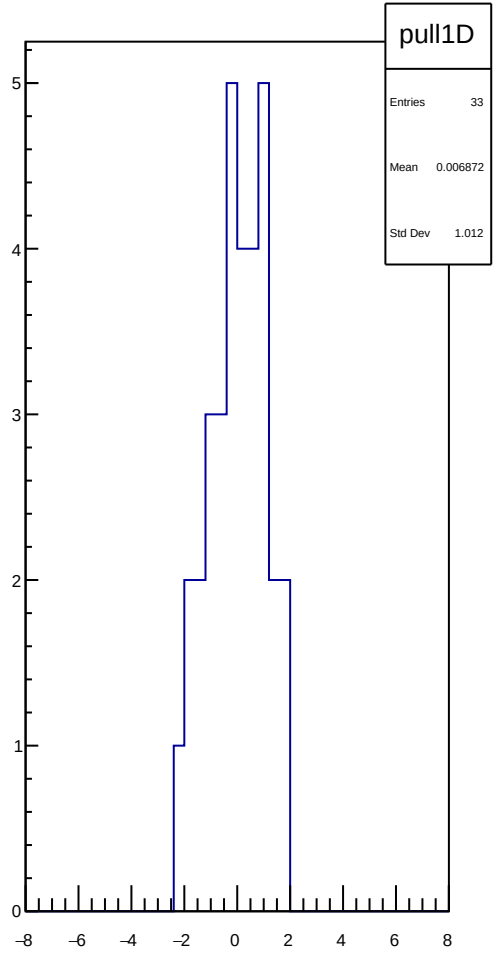

diff_bpm11Y_rms vs run
χ² / ndf 3.346e+04 / 32
p0 1.053e+04 ± 13.39
22000
20000
18000
16000
14000
12000
10000
8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

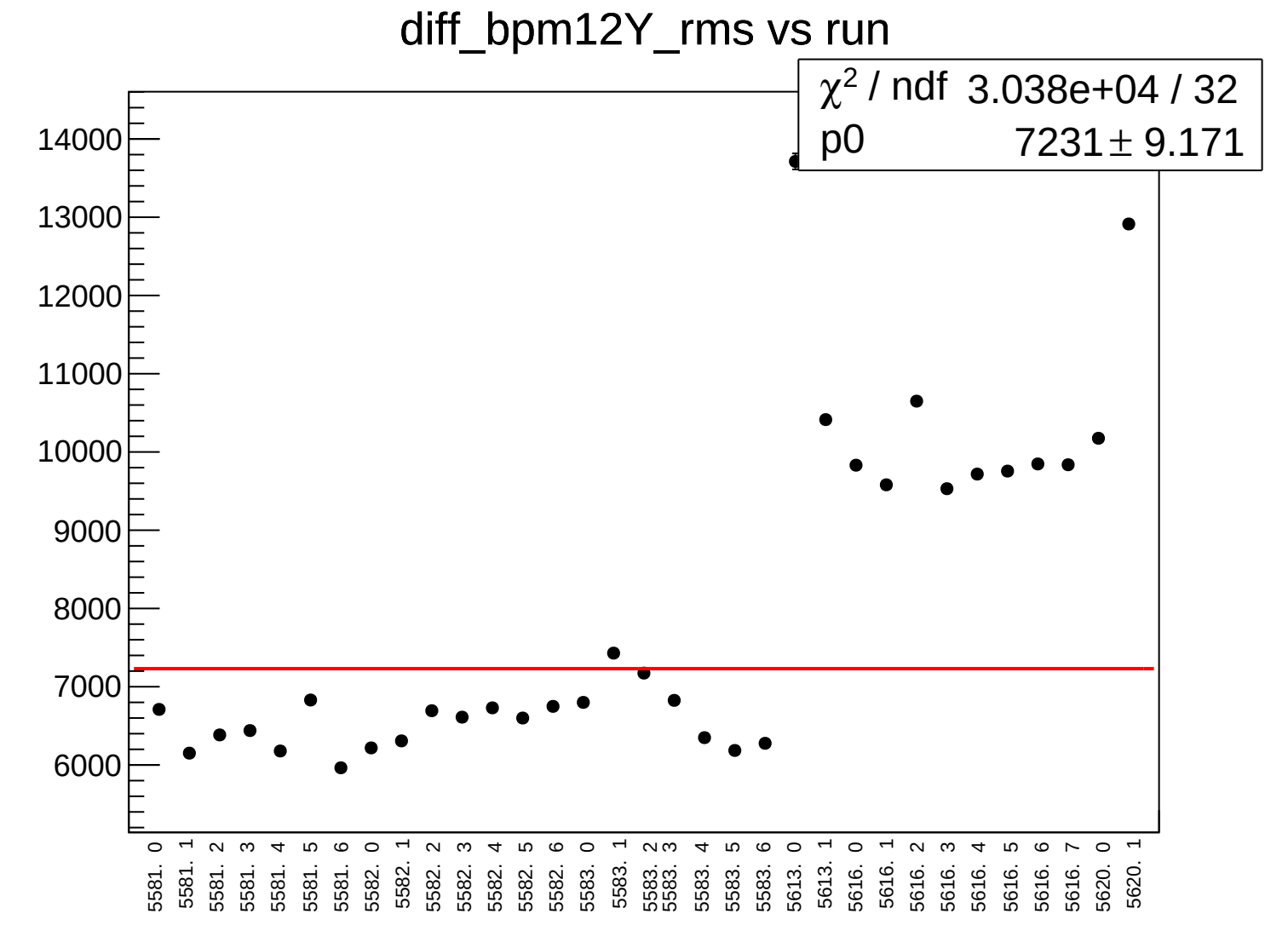

diff_bpm12X_mean vs run
χ² / ndf 32.6 / 32
p0 1.091 ± 45.02
pull
Entries 33
Mean 86.63
Std Dev 0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

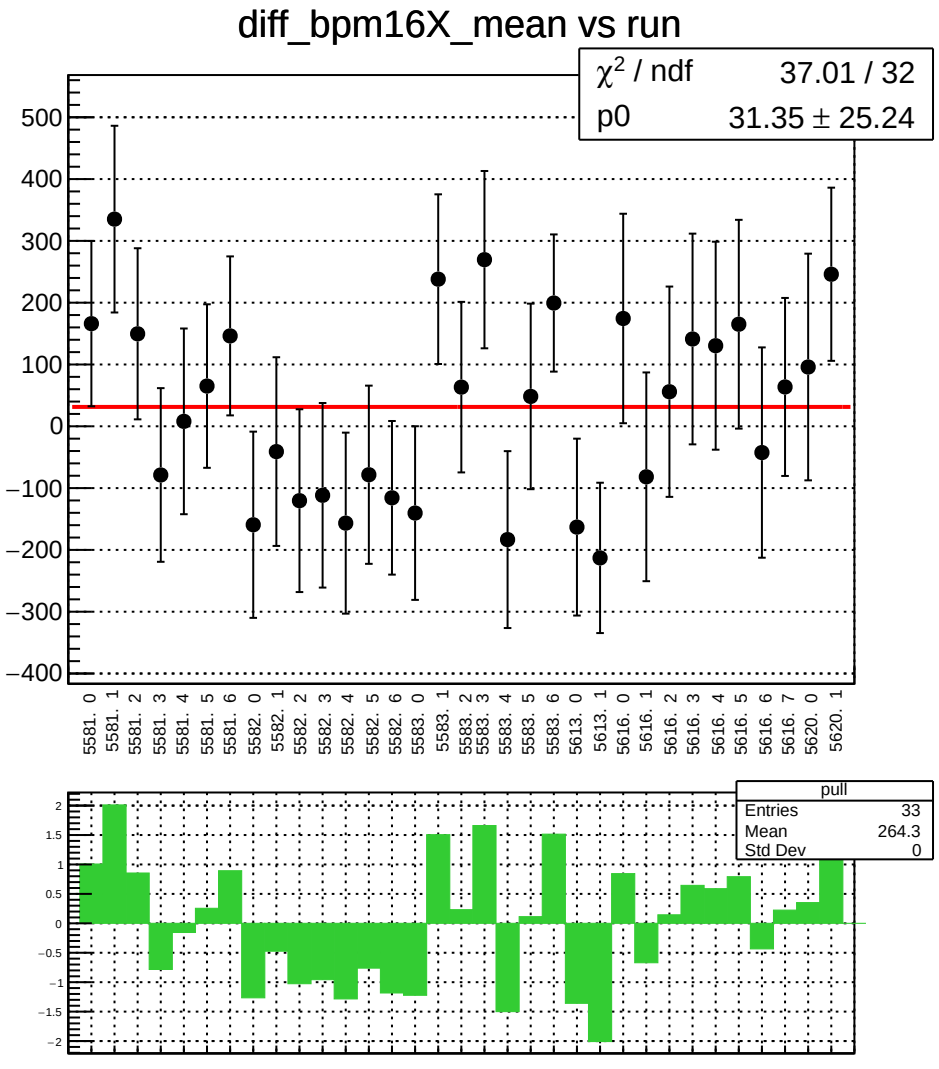

pull1D
Entries 33
Mean −0.03288
Std Dev 0.9933

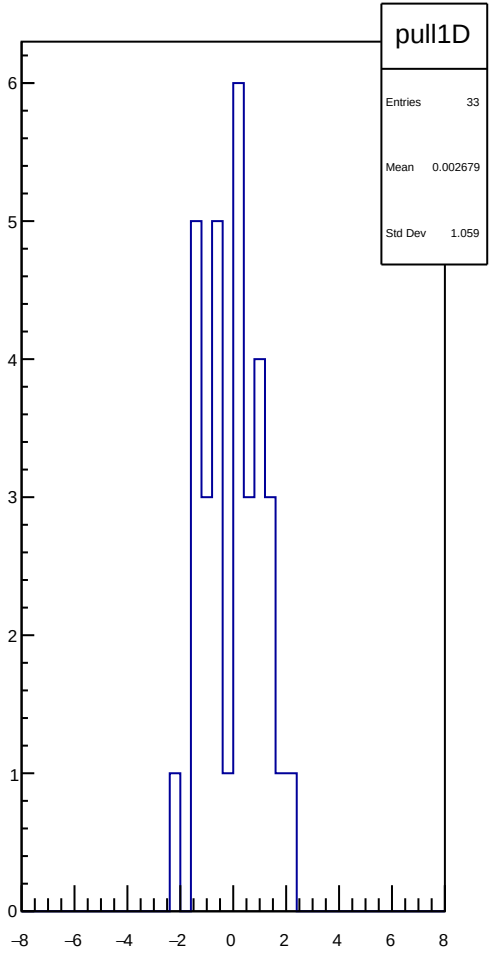

diff_bpm12X_rms vs run
χ² / ndf 1.43e+04 / 32
p0 2.542e+04 ± 31.84
36000
34000
32000
30000
28000
26000
24000
22000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

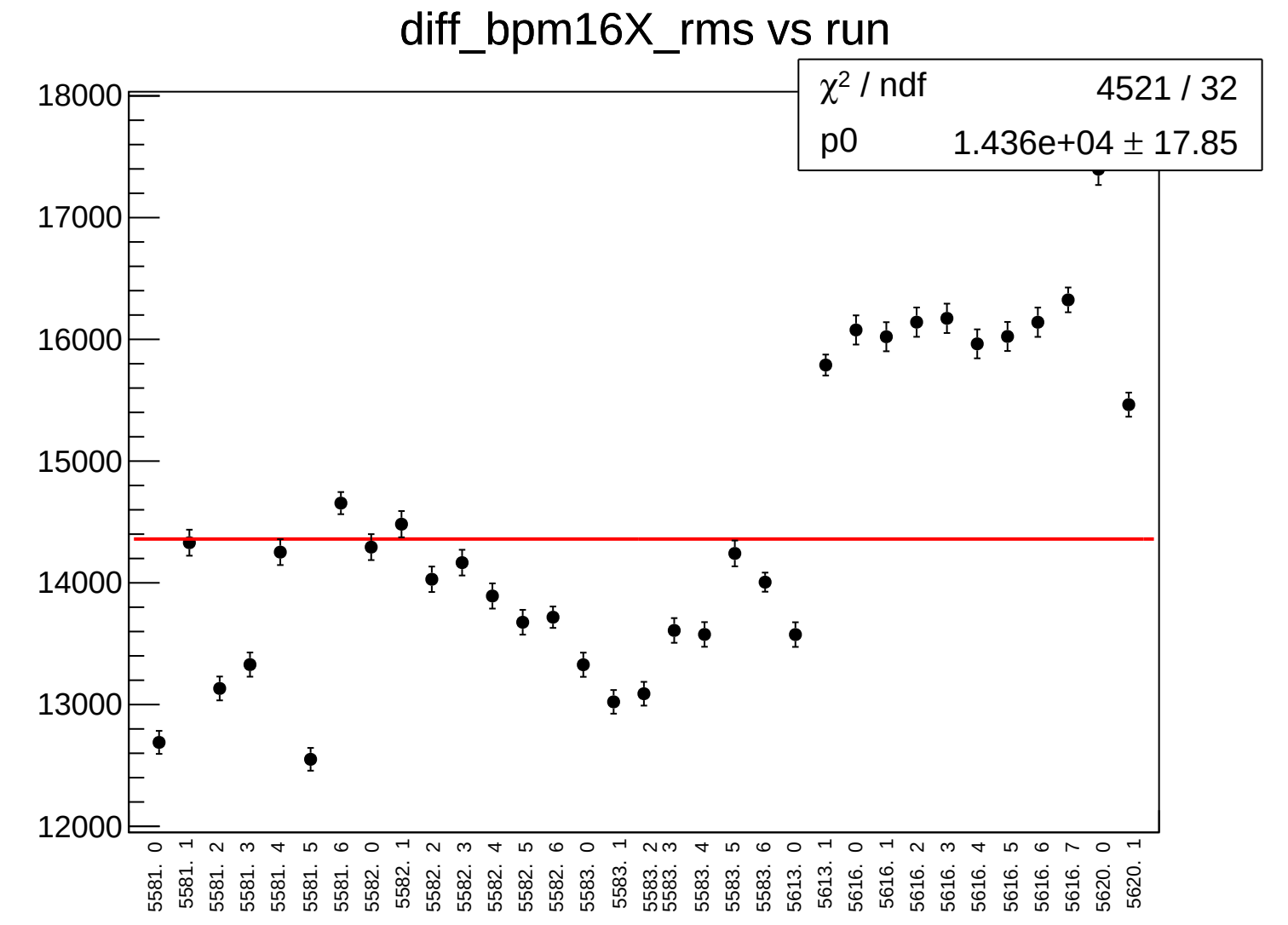

diff_bpm12Y_mean vs run
χ² / ndf 33.79 / 32
p0 −19.45 ± 12.97
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 154.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

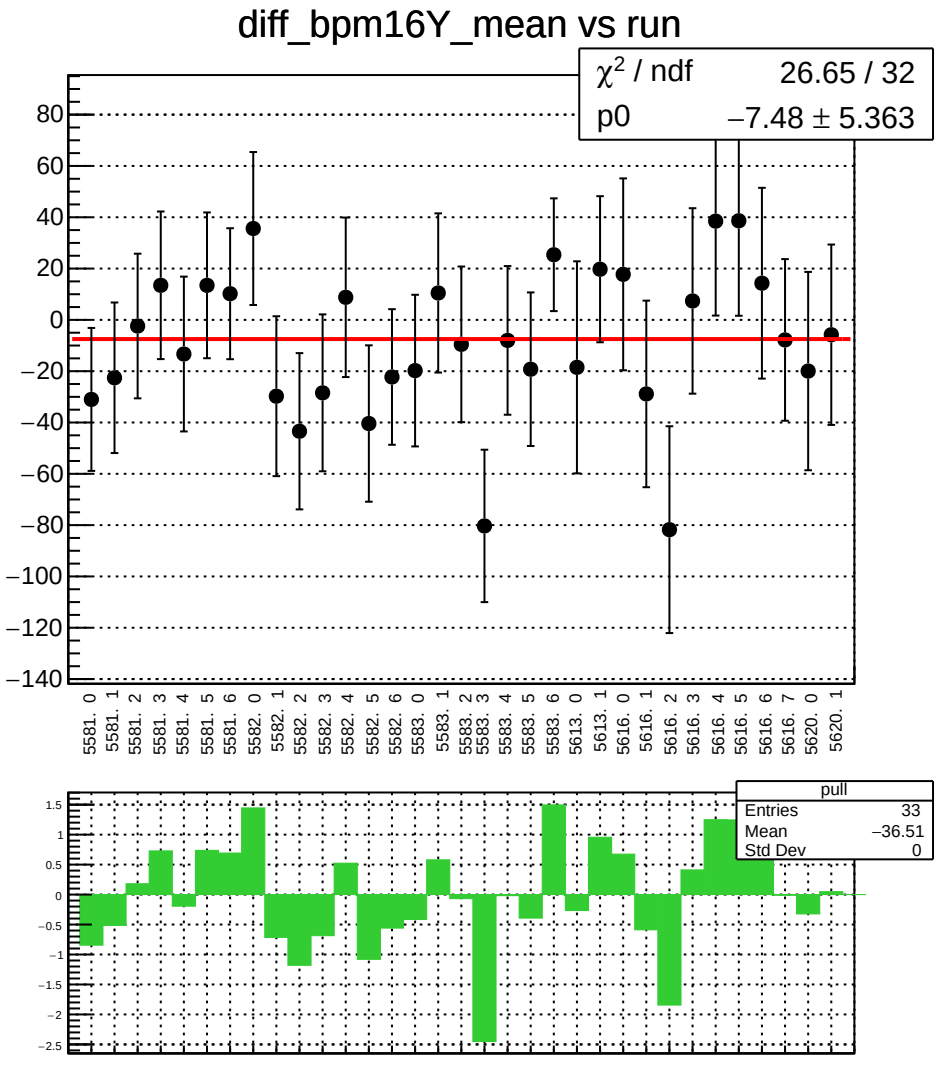

pull1D
Entries 33
Mean 0.006872
Std Dev 1.012
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

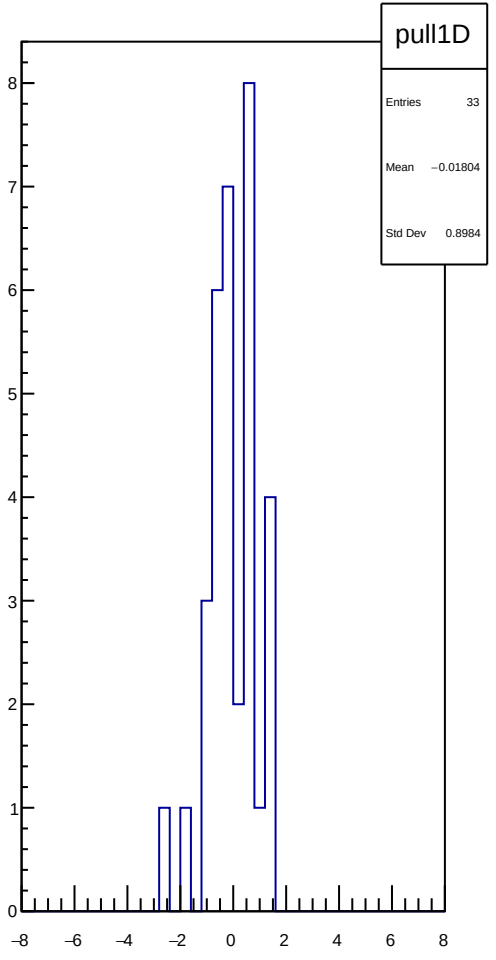

diff_bpm12Y_rms vs run
χ² / ndf 3.038e+04 / 32
p0 7231 ± 9.171
14000
13000
12000
11000
10000
9000
8000
7000
6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

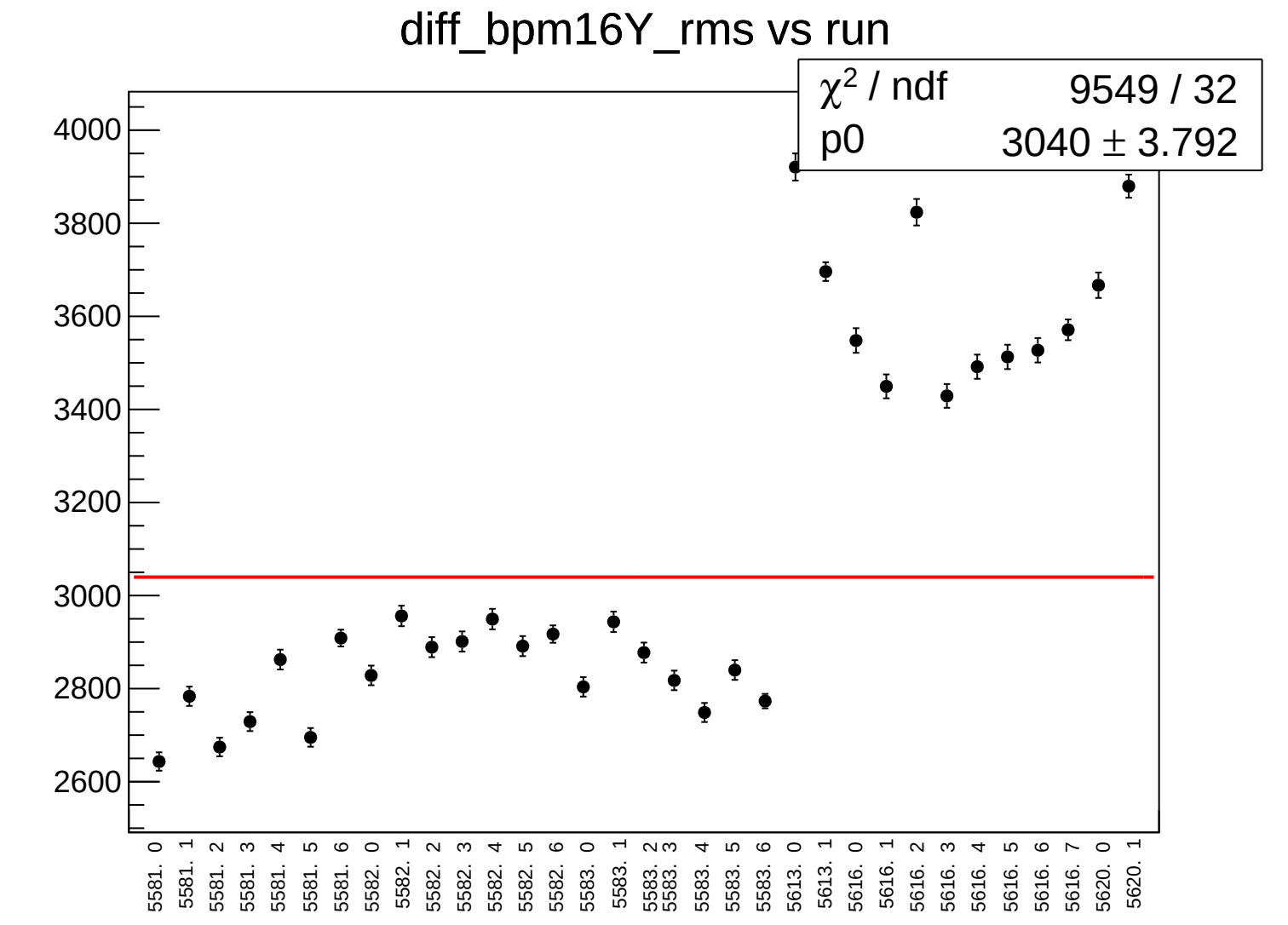

diff_bpm16X_mean vs run
χ² / ndf 37.01 / 32
p0 31.35 ± 25.24
500
400
300
200
100
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 264.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

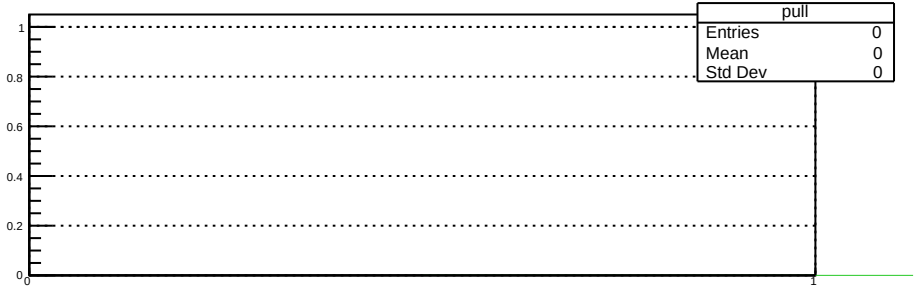

pull1D
Entries 33
Mean 0.002679
Std Dev 1.059
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

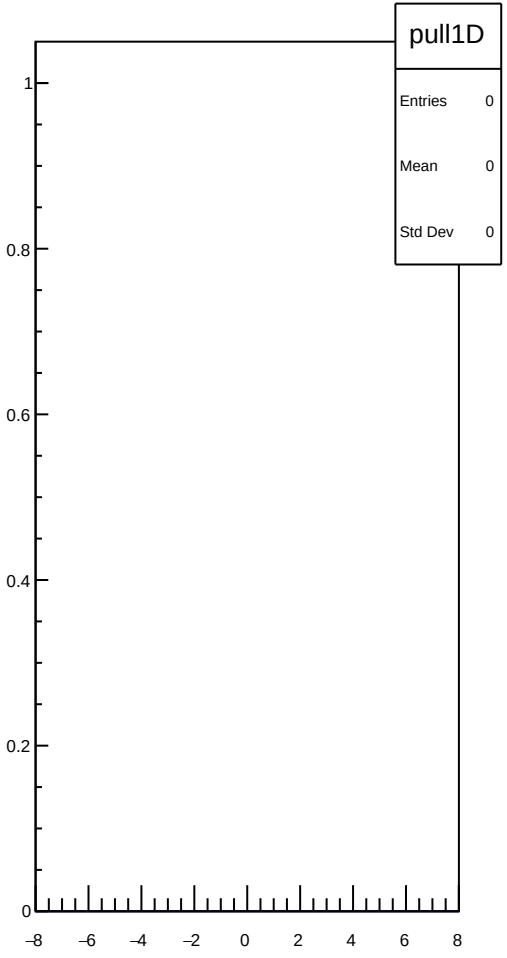

diff_bpm16X_rms vs run
χ² / ndf 4521 / 32
p0 1.436e+04 ± 17.85
18000
17000
16000
15000
14000
13000
12000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

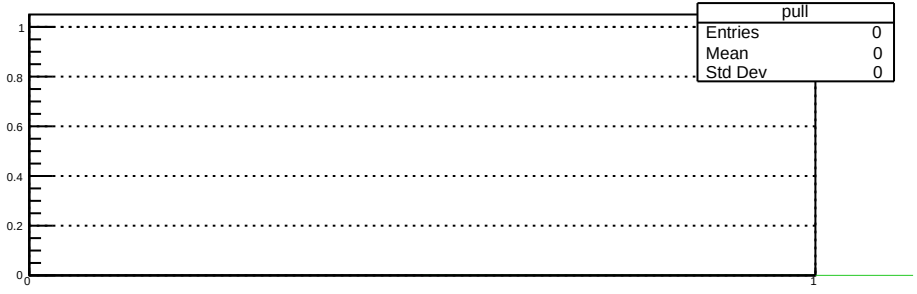

diff_bpm16Y_mean vs run
χ² / ndf 26.65 / 32
p0 −7.48 ± 5.363
pull
Entries 33
Mean −36.51
Std Dev 0

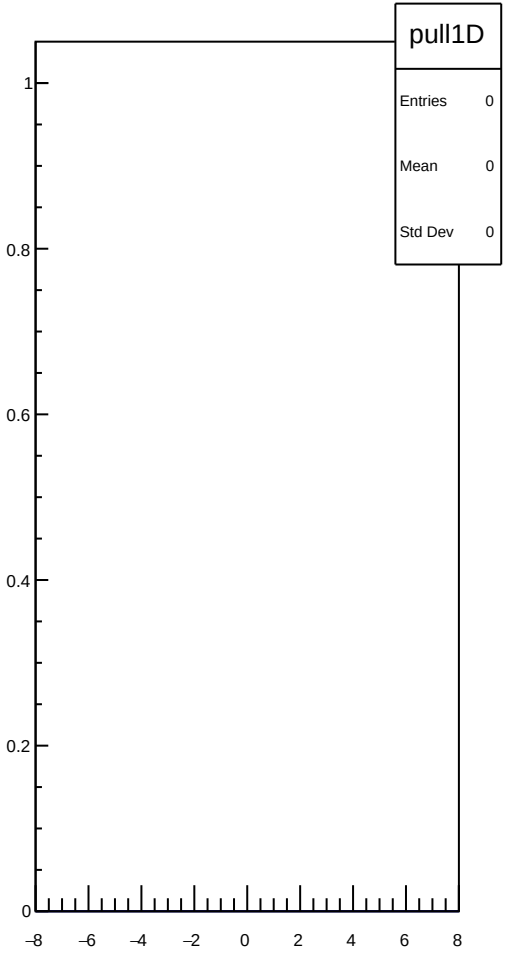

pull1D
Entries 33
Mean −0.01804
Std Dev 0.8984

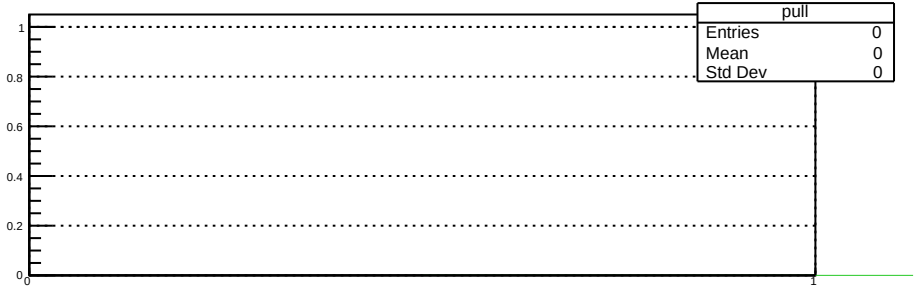

diff_bpm16Y_rms vs run
χ² / ndf 9549 / 32
p0 3040 ± 3.792
4000
3800
3600
3400
3200
3000
2800
2600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

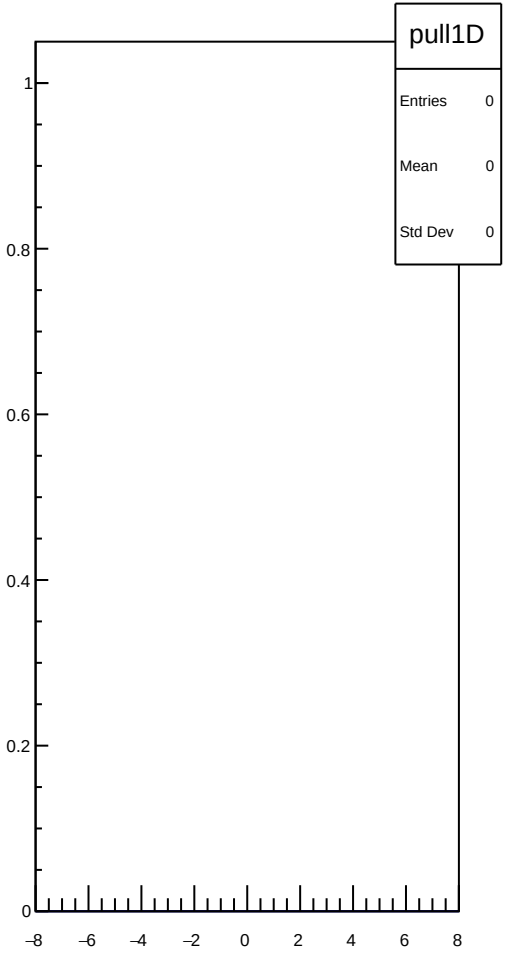

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

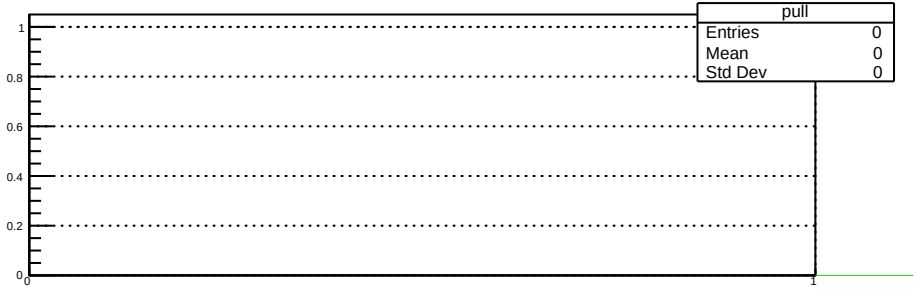

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

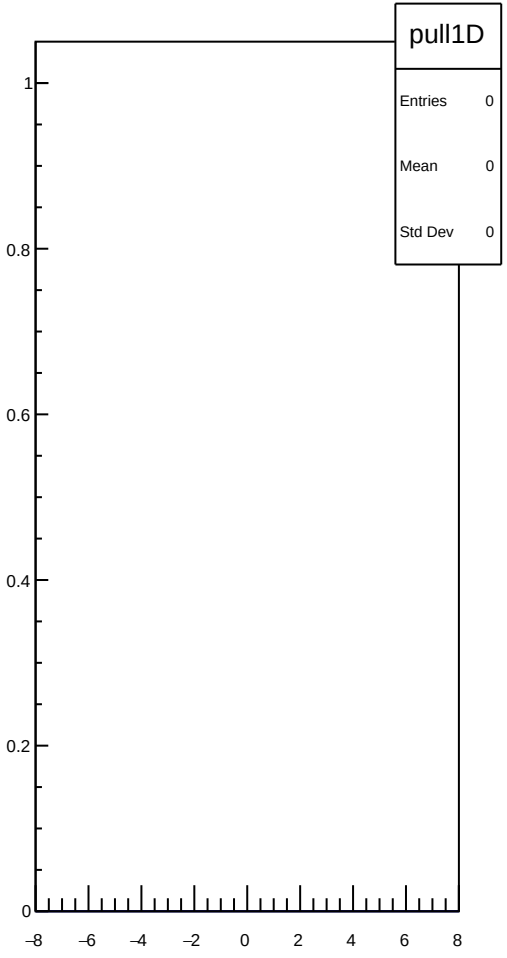

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

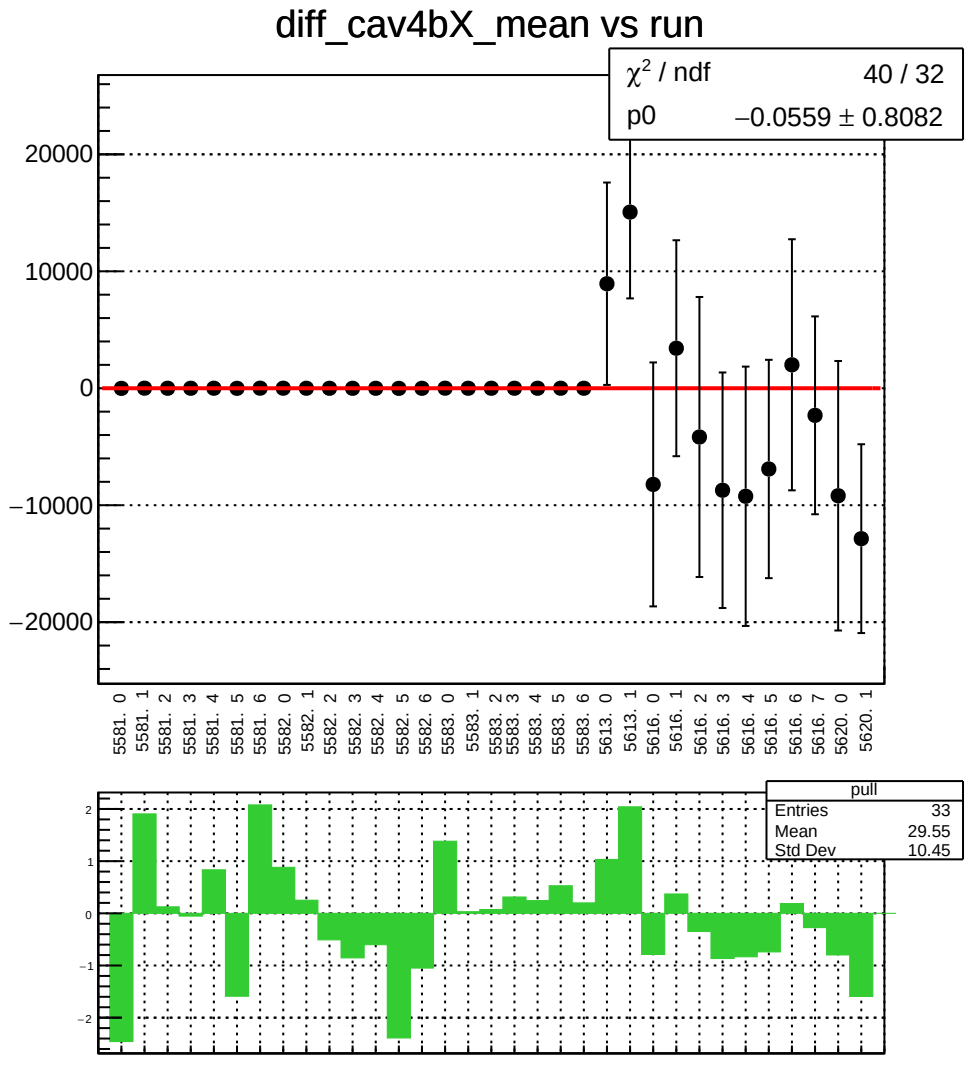

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

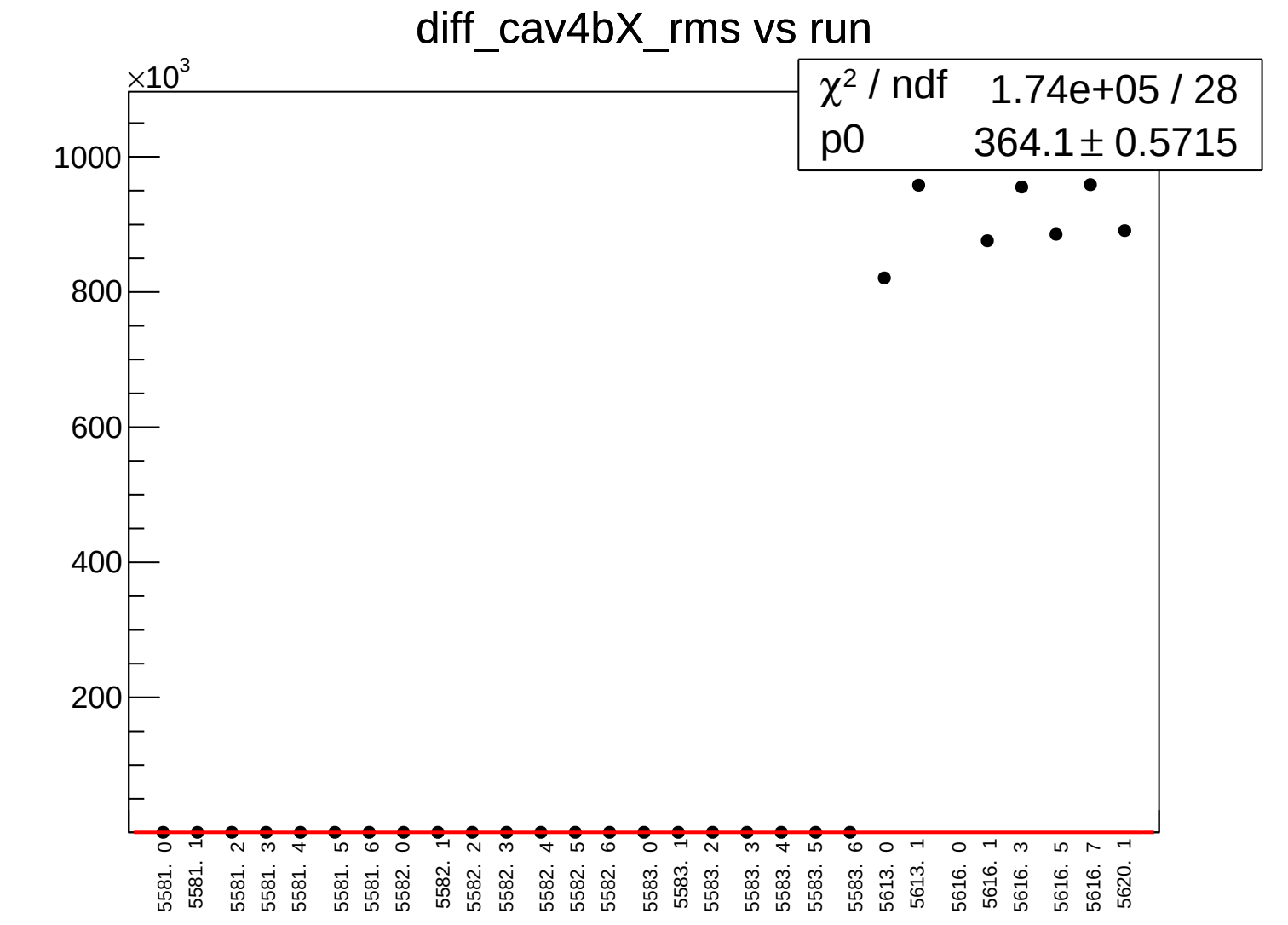

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

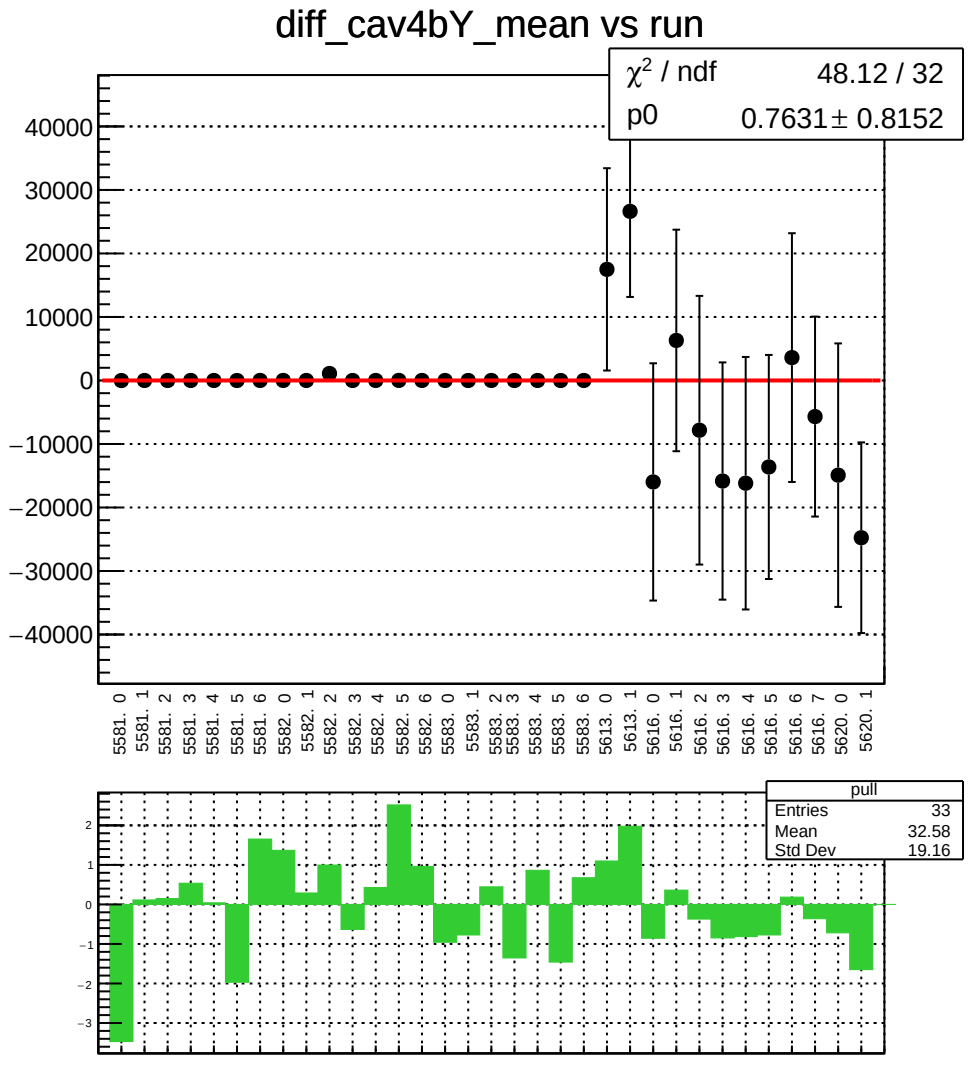

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

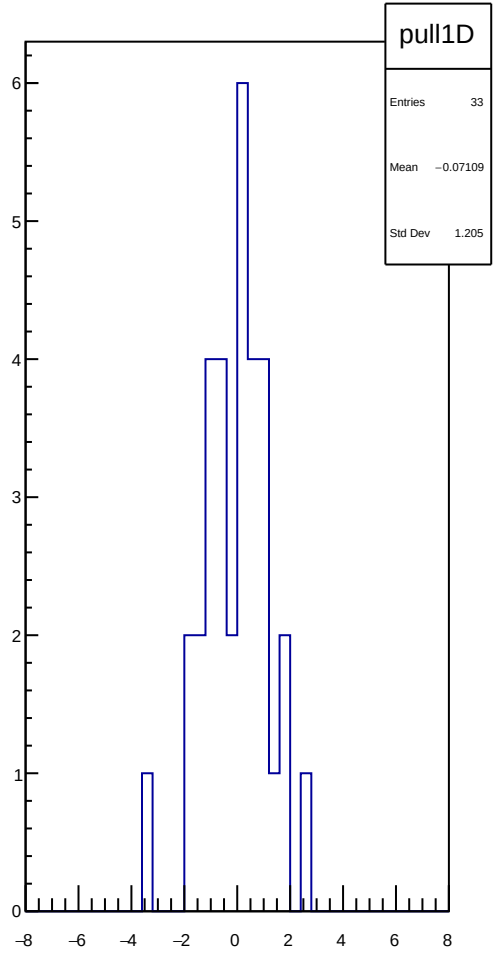

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

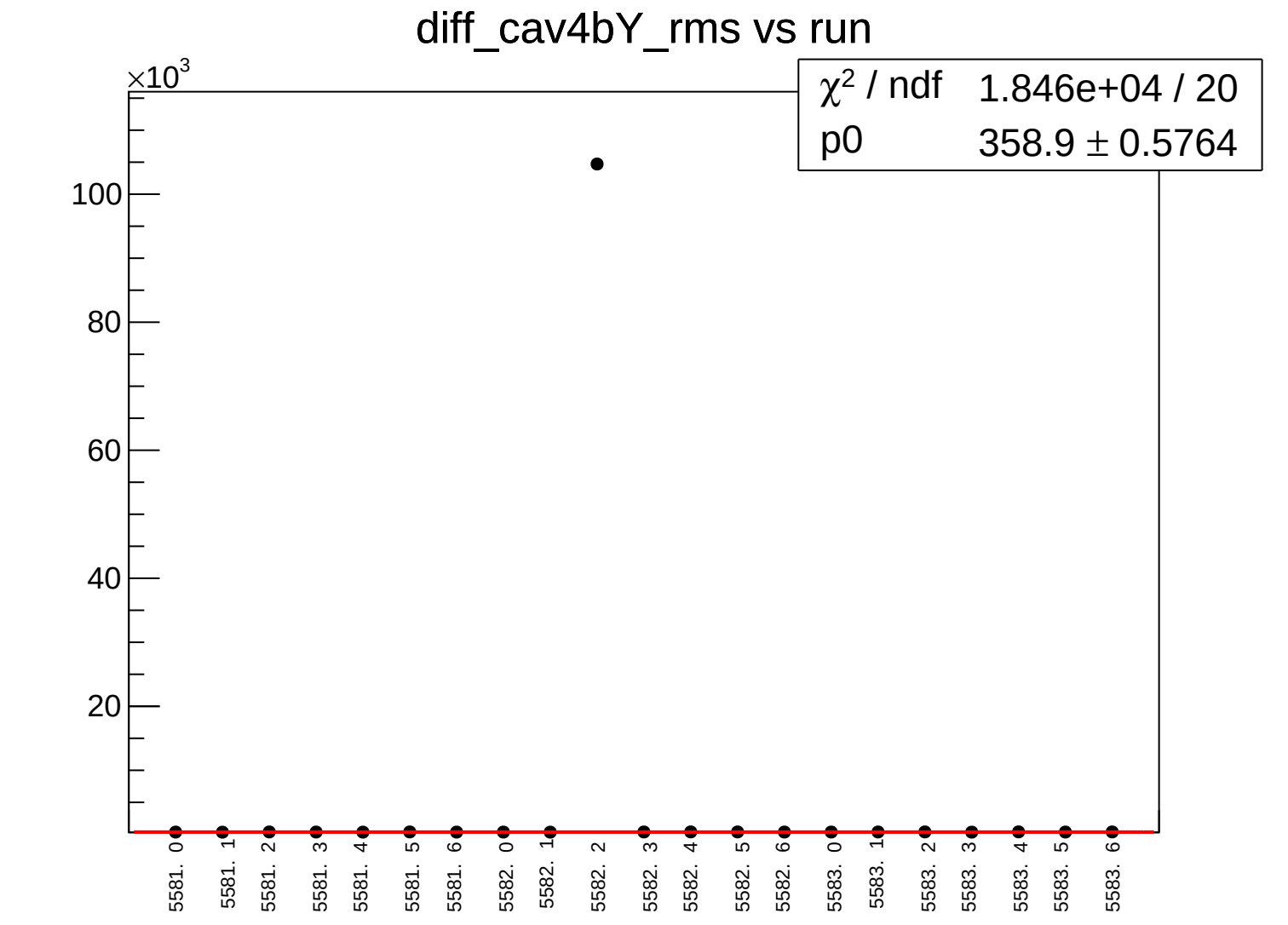

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

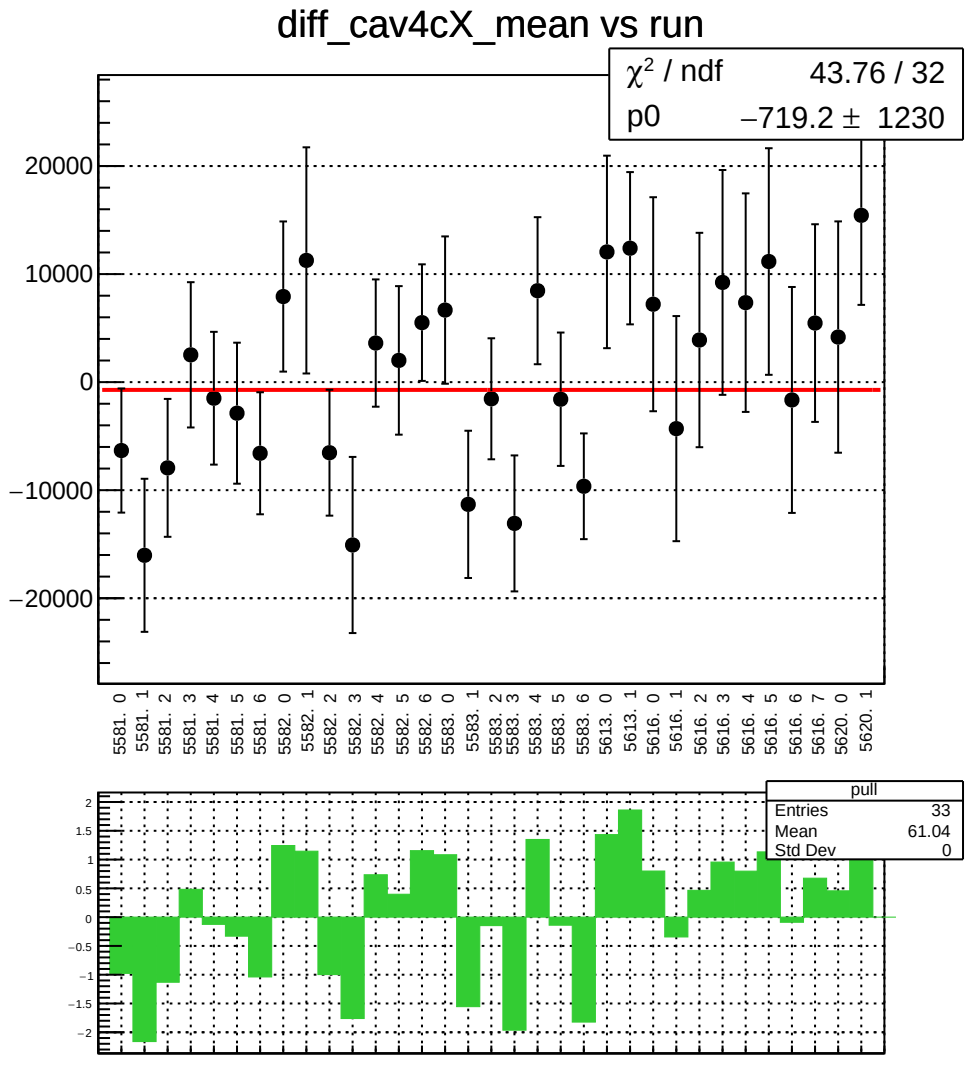

diff_cav4bX_mean vs run
χ² / ndf 40 / 32
p0 −0.0559 ± 0.8082
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.55
Std Dev 10.45
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.09892
Std Dev 1.097
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

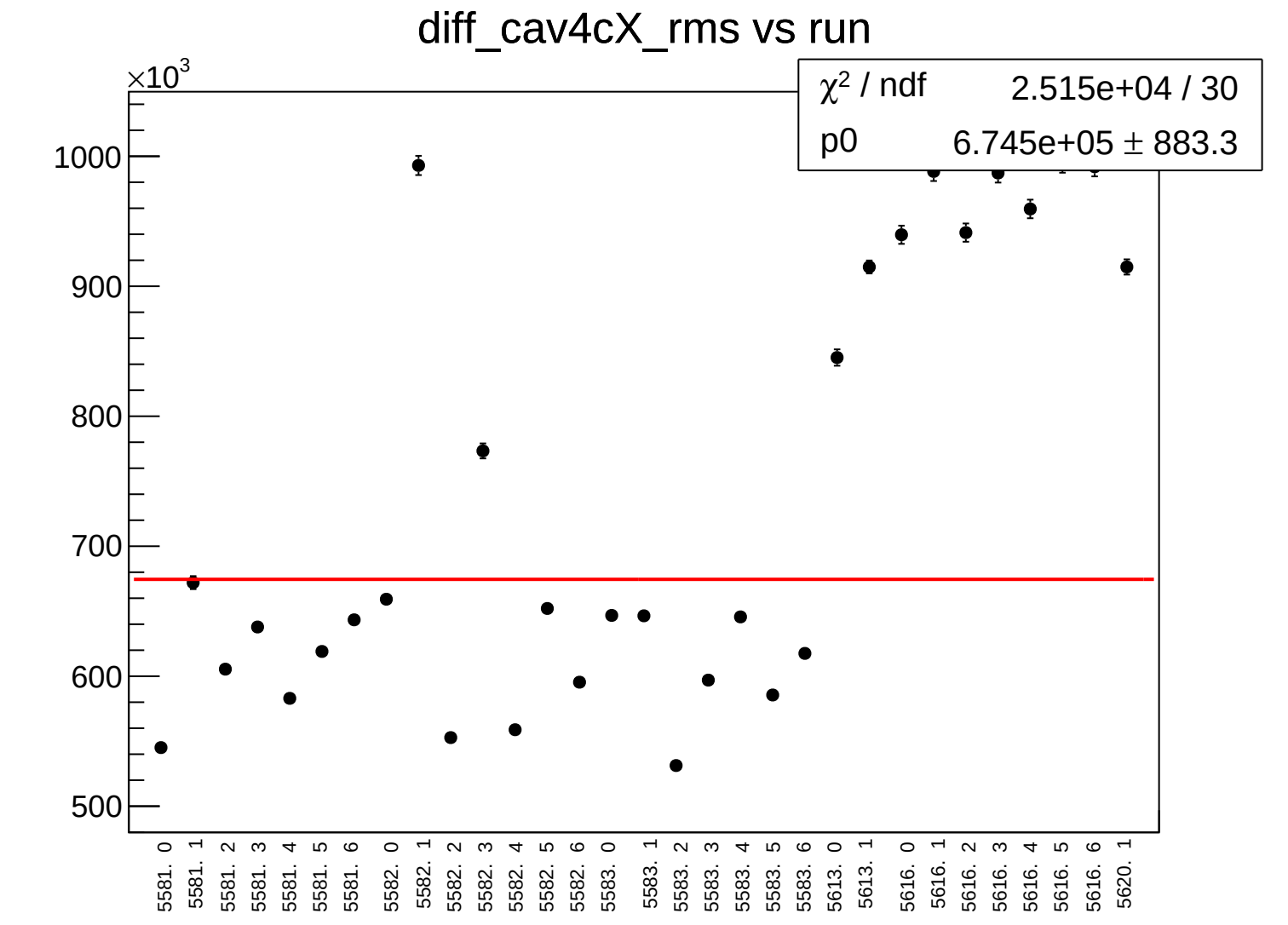

diff_cav4bX_rms vs run
×10^3
χ² / ndf 1.74e+05 / 28
p0 364.1 ± 0.5715
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 3
5616. 5
5616. 7
5620. 1

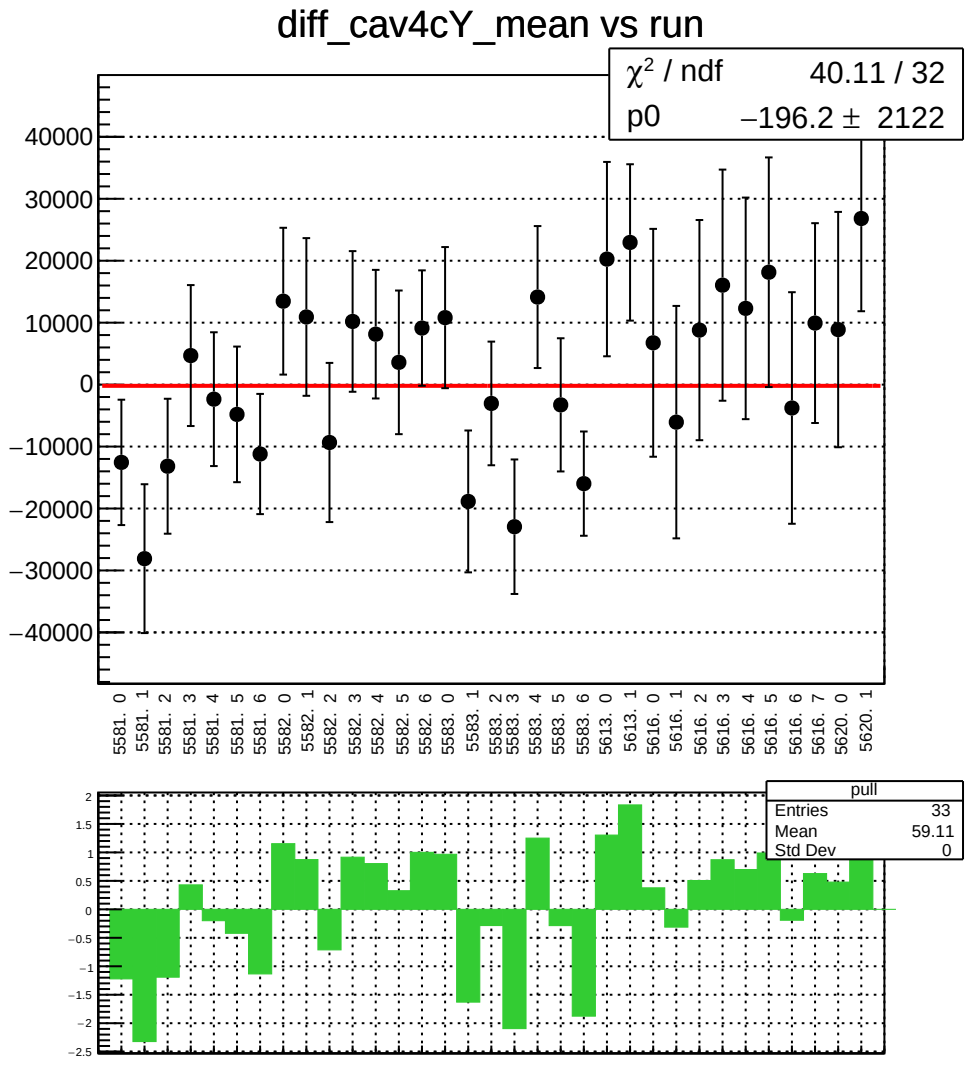

diff_cav4bY_mean vs run
χ² / ndf 48.12 / 32
p0 0.7631 ± 0.8152
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 32.58
Std Dev 19.16
2
1
0
−1
−2
−3

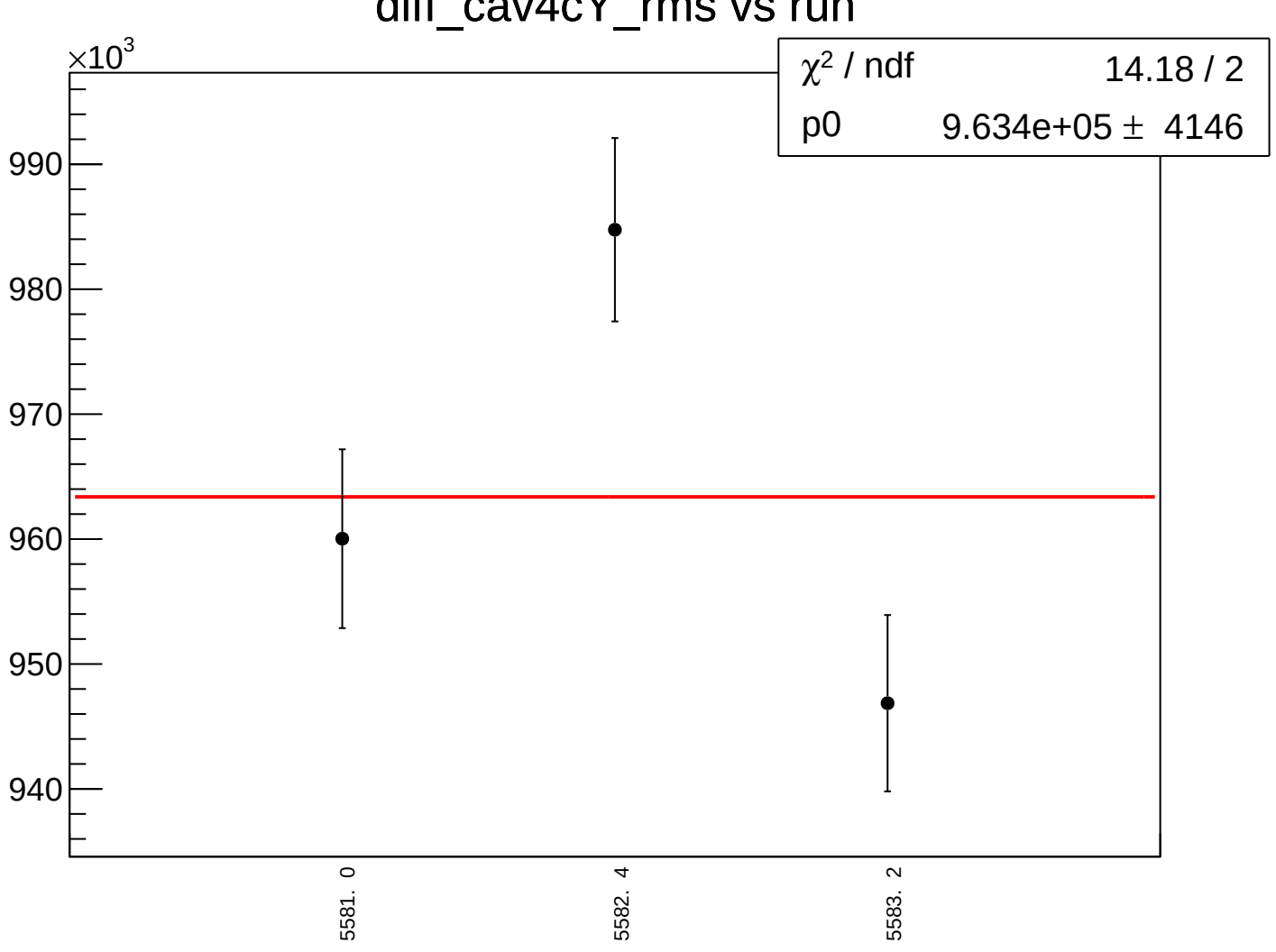

pull1D
Entries 33
Mean −0.07109
Std Dev 1.205
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

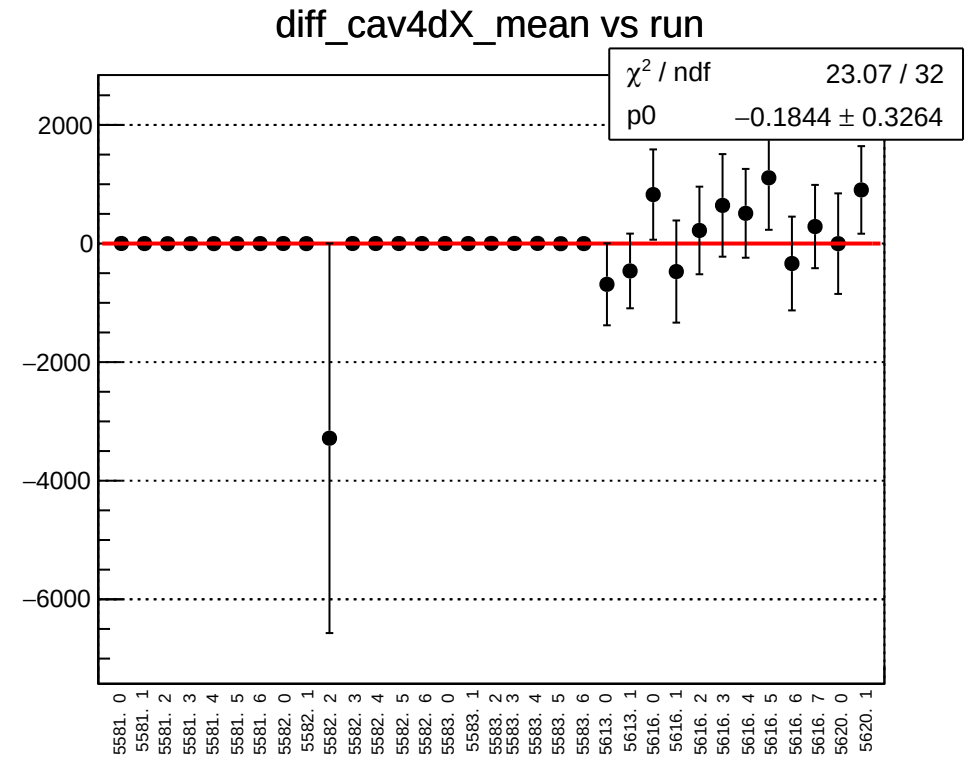

diff_cav4bY_rms vs run
×10^3
χ² / ndf 1.846e+04 / 20
p0 358.9 ± 0.5764
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6

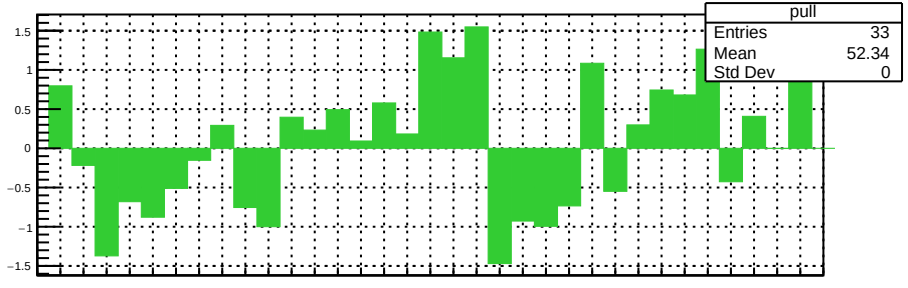

diff_cav4cX_mean vs run
χ² / ndf 43.76 / 32
p0 −719.2 ± 1230
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 61.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.1073
Std Dev 1.147
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

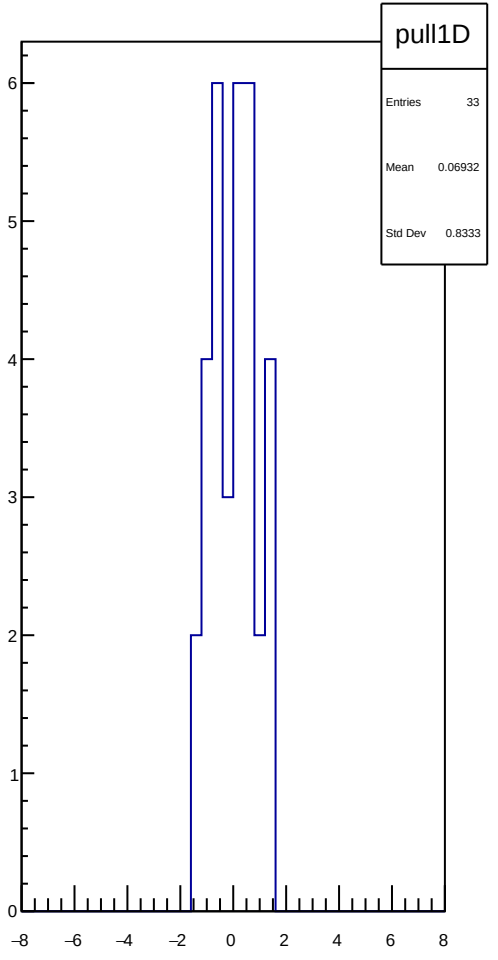

diff_cav4cX_rms vs run
×10^3
1000
900
800
700
600
500
χ² / ndf 2.515e+04 / 30
p0 6.745e+05 ± 883.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5620. 1

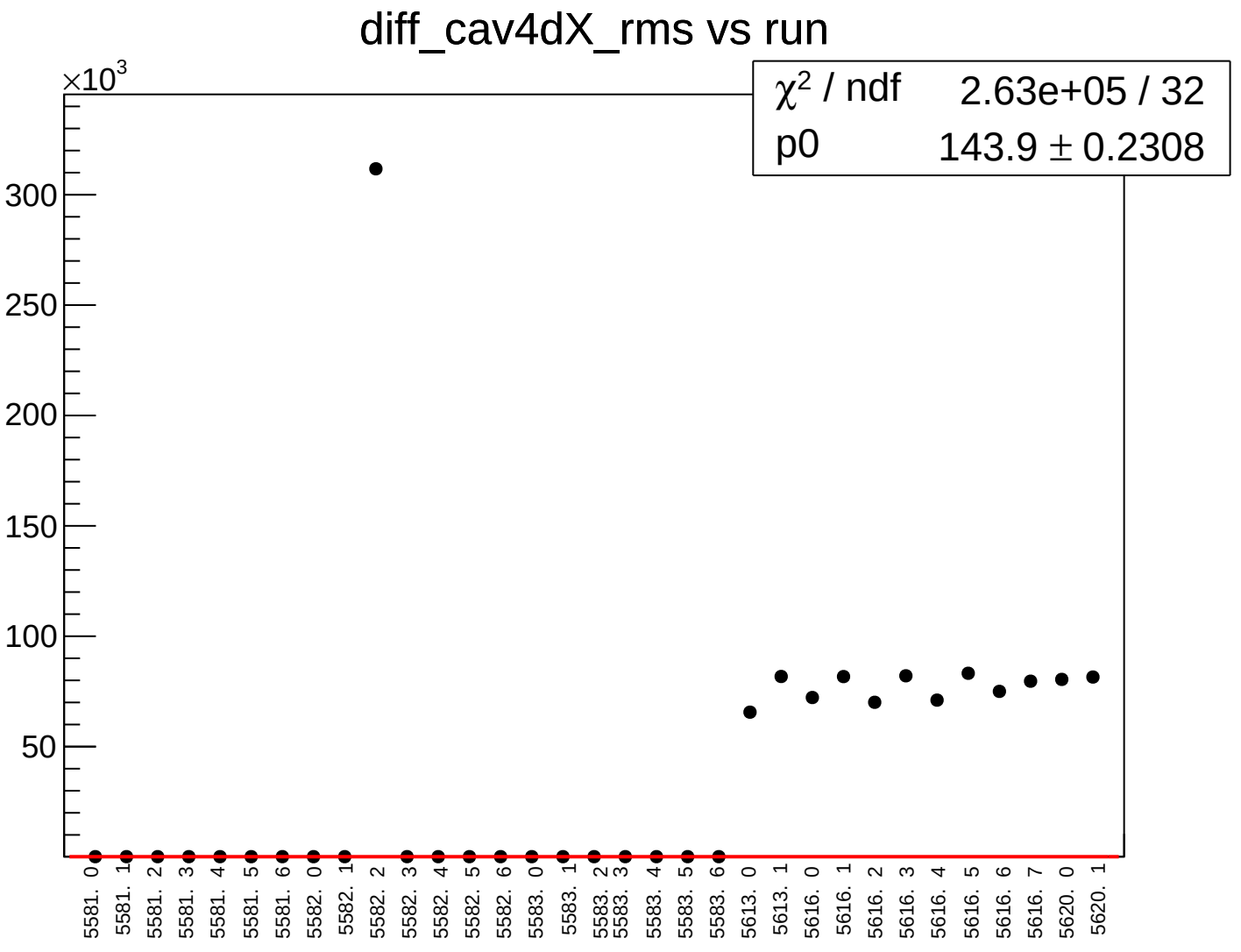

diff_cav4cY_mean vs run
χ² / ndf 40.11 / 32
p0 −196.2 ± 2122
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 59.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.1011
Std Dev 1.098
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

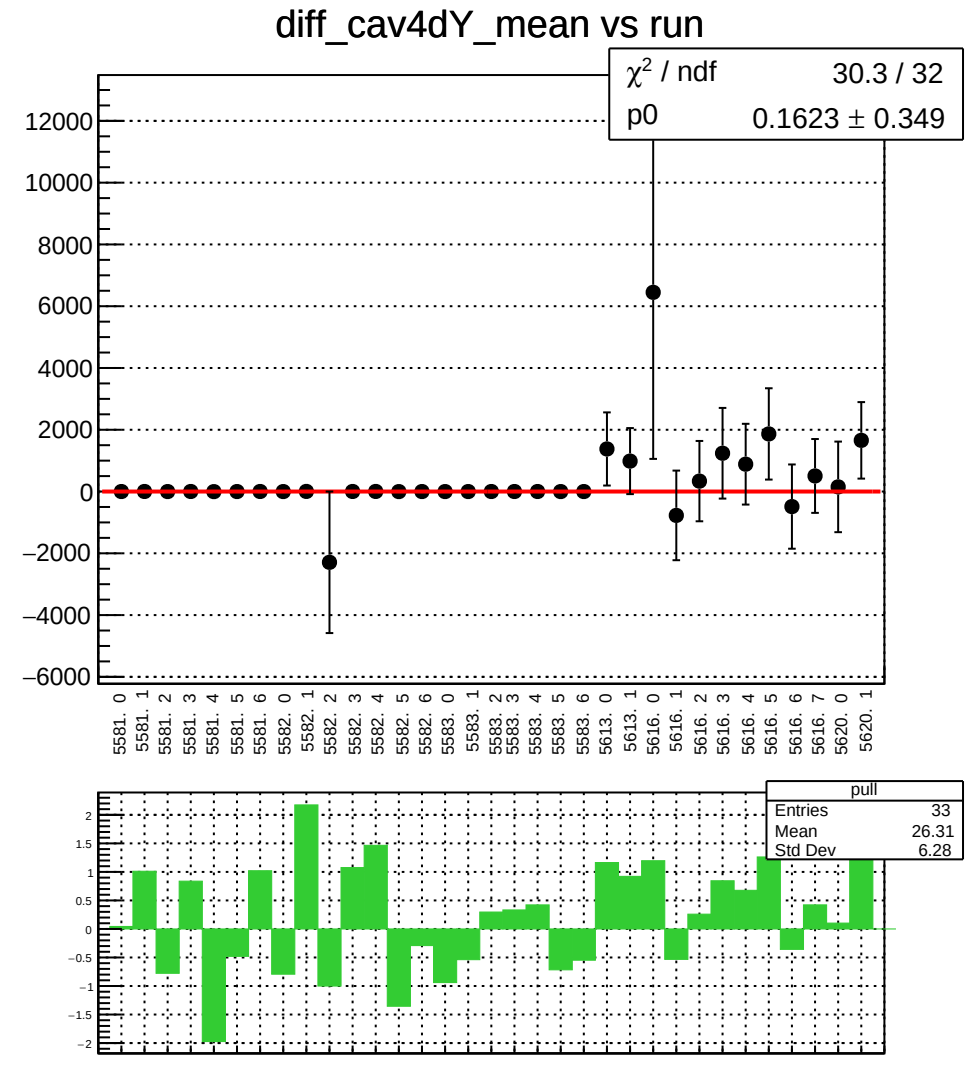

diff_cav4cY_rms vs run
×10^3
990
980
970
960
950
940
χ² / ndf 14.18 / 2
p0 9.634e+05 ± 4146
5581. 0
5582. 4
5583. 2

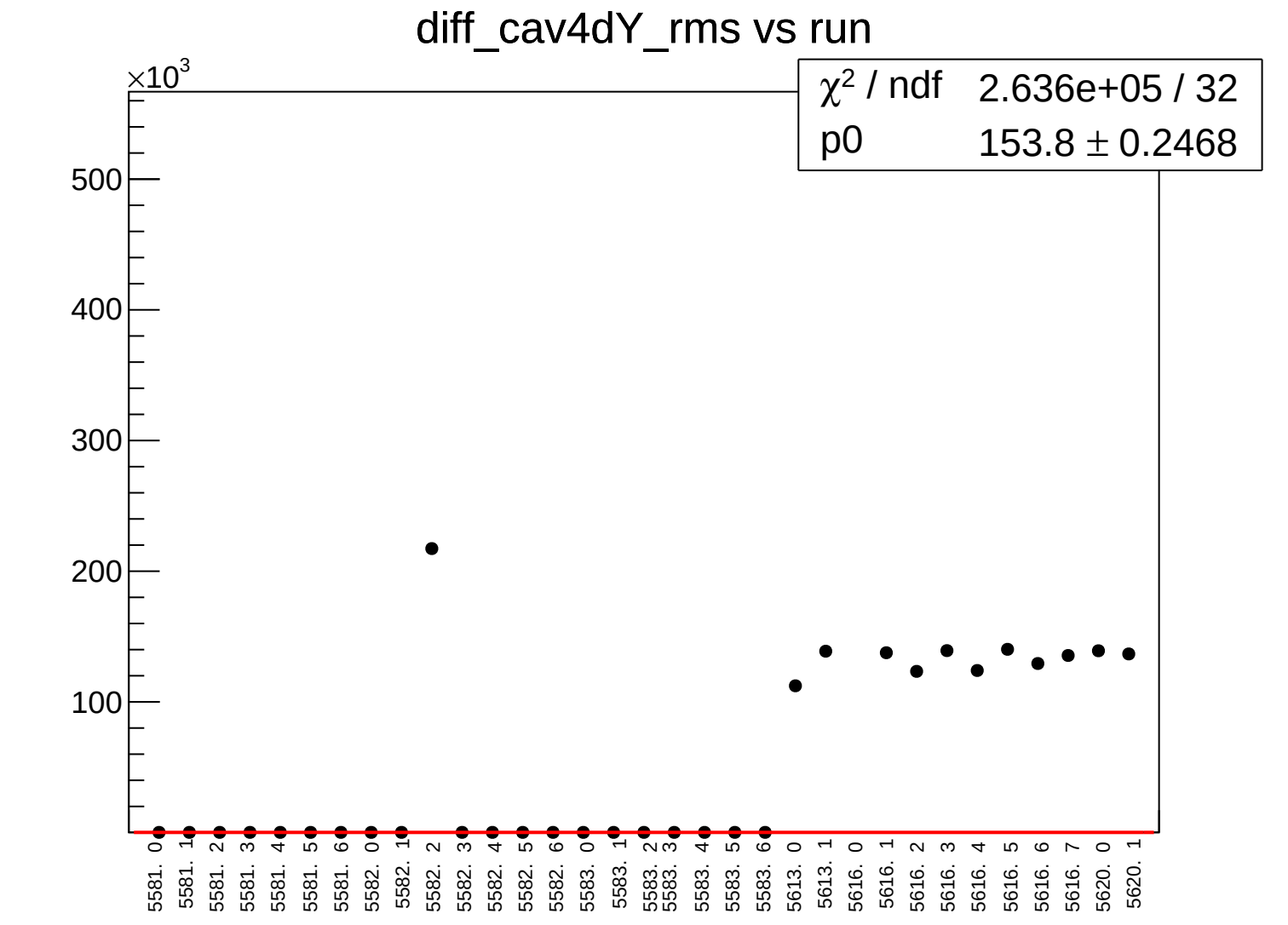

diff_cav4dX_mean vs run
χ² / ndf 23.07 / 32
p0 −0.1844 ± 0.3264
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

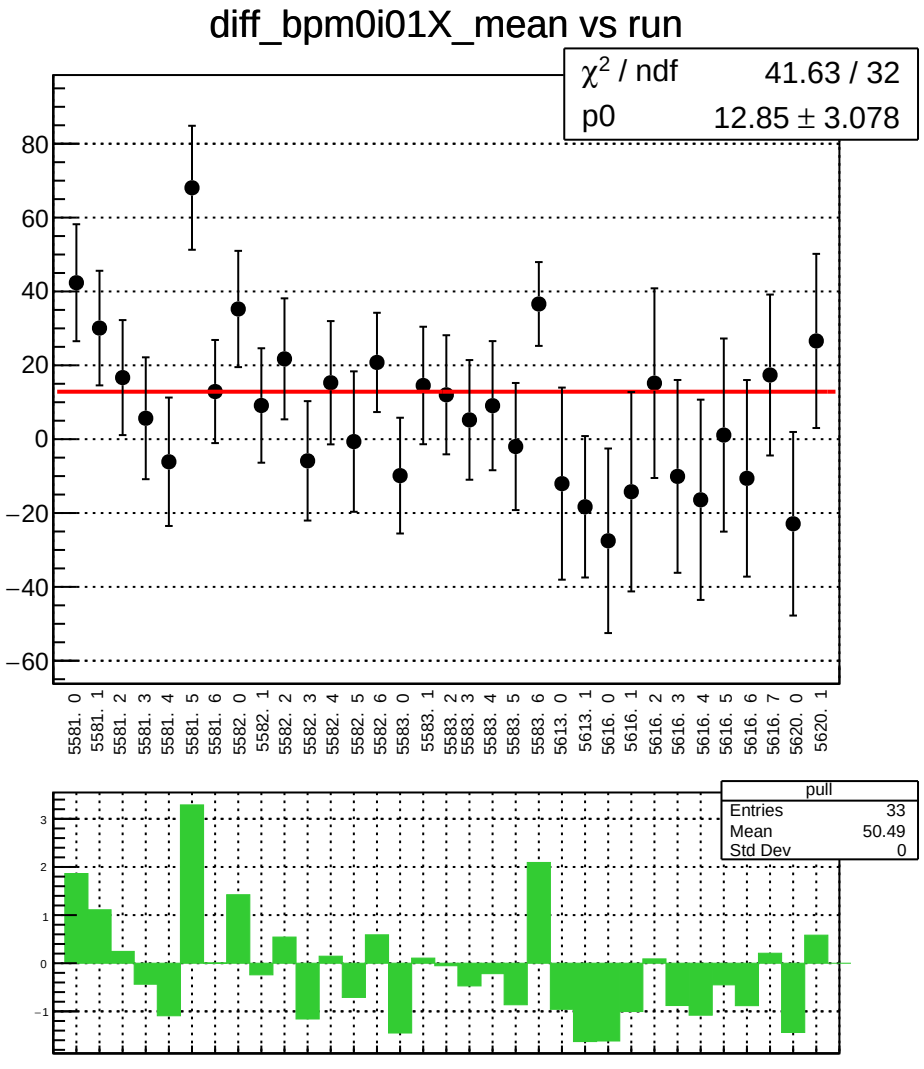

pull
Entries 33
Mean 52.34
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

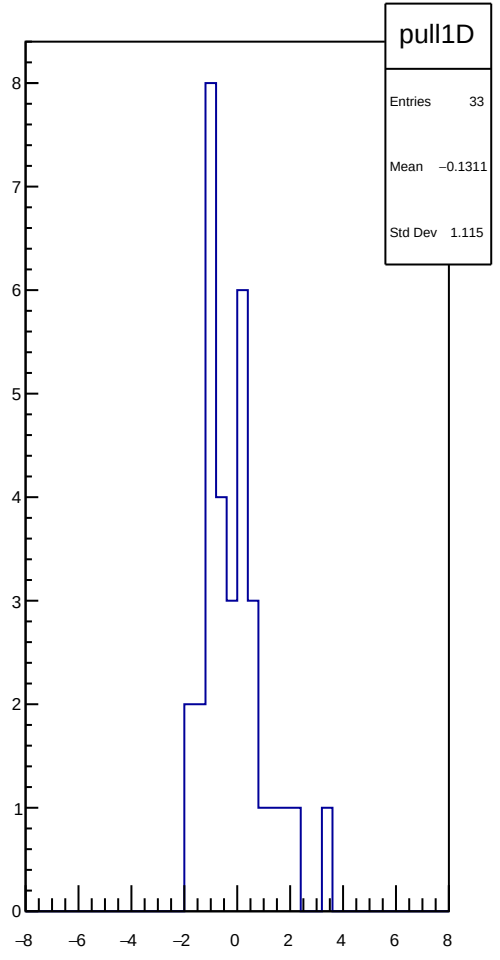

pull1D
Entries 33
Mean 0.06932
Std Dev 0.8333
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

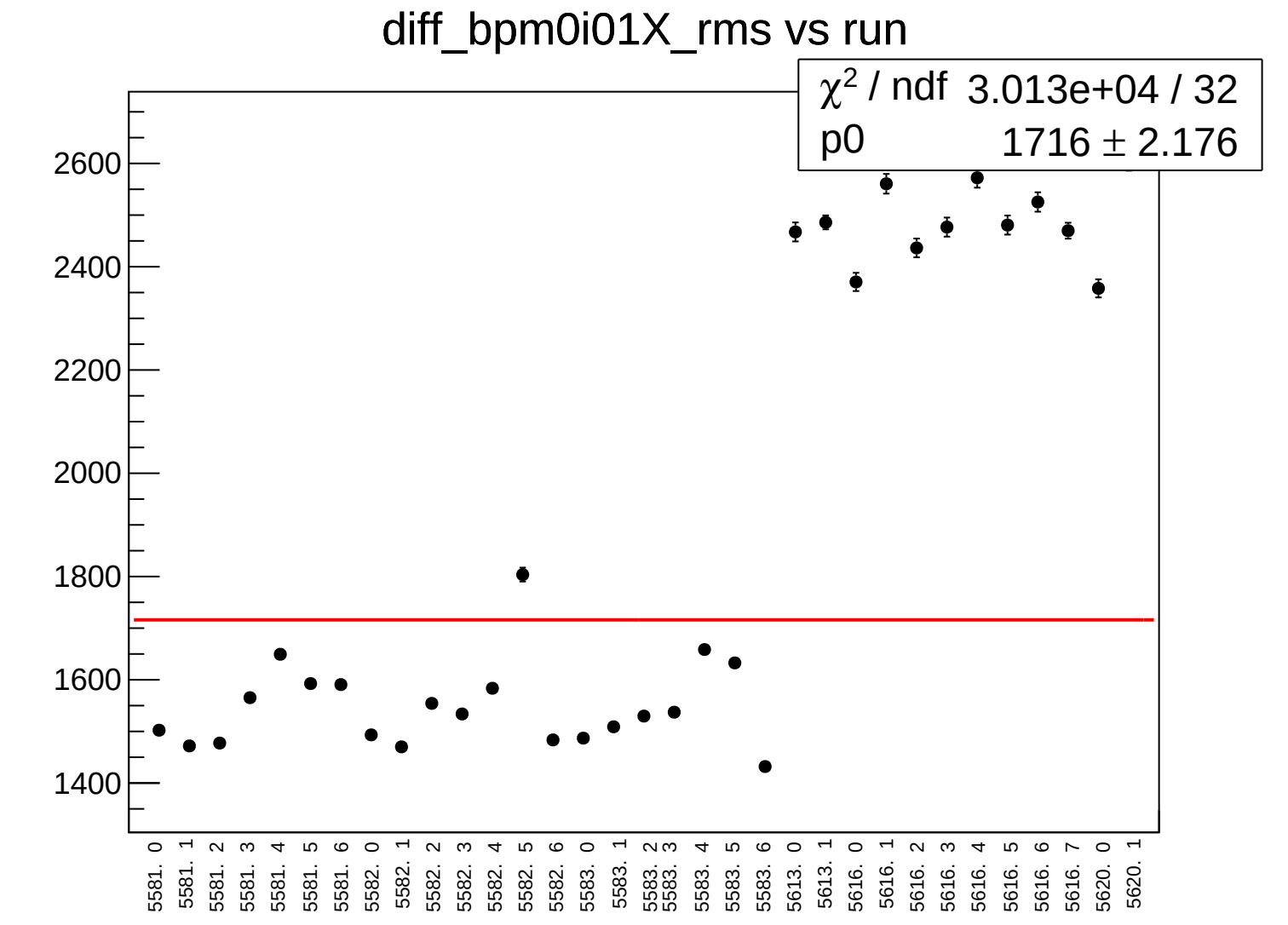

diff_cav4dX_rms vs run
×10^3
χ² / ndf 2.63e+05 / 32
p0 143.9 ± 0.2308
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

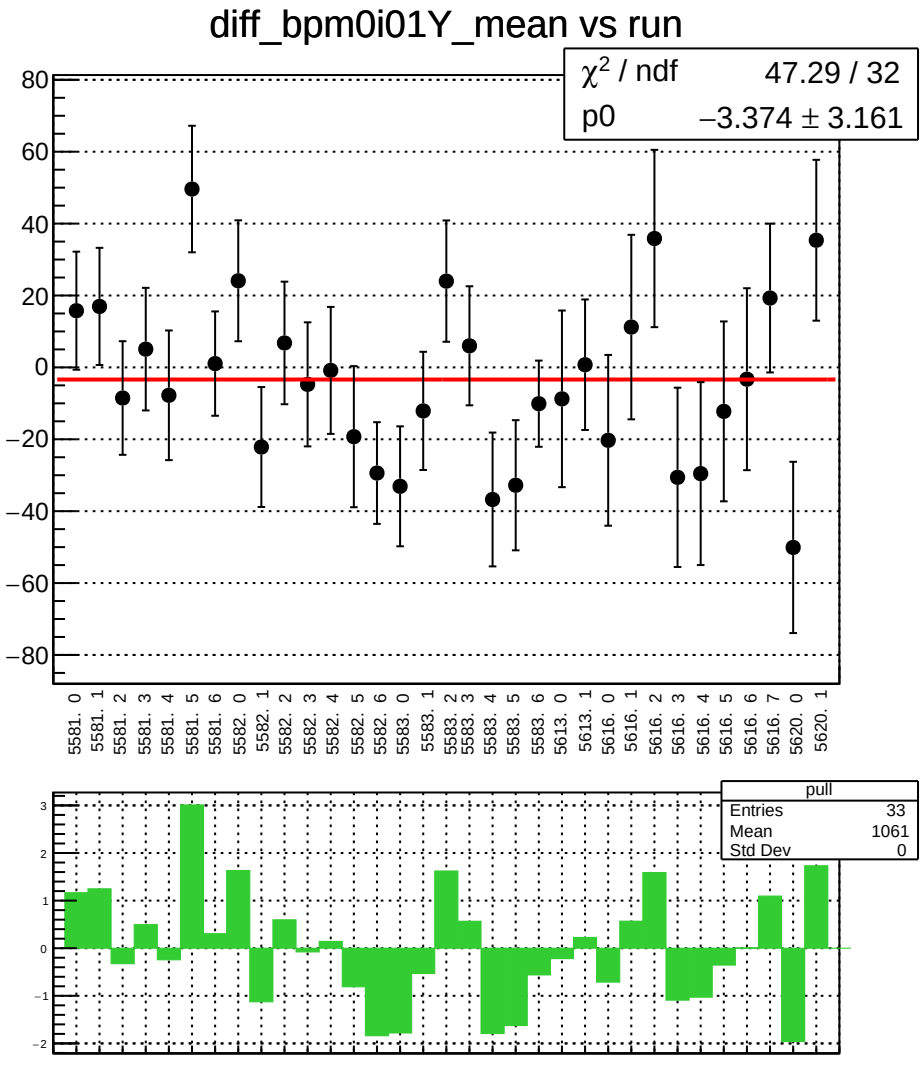

diff_cav4dY_mean vs run
χ² / ndf 30.3 / 32
p0 0.1623 ± 0.349
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.31
Std Dev 6.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.1989
Std Dev 0.9373
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

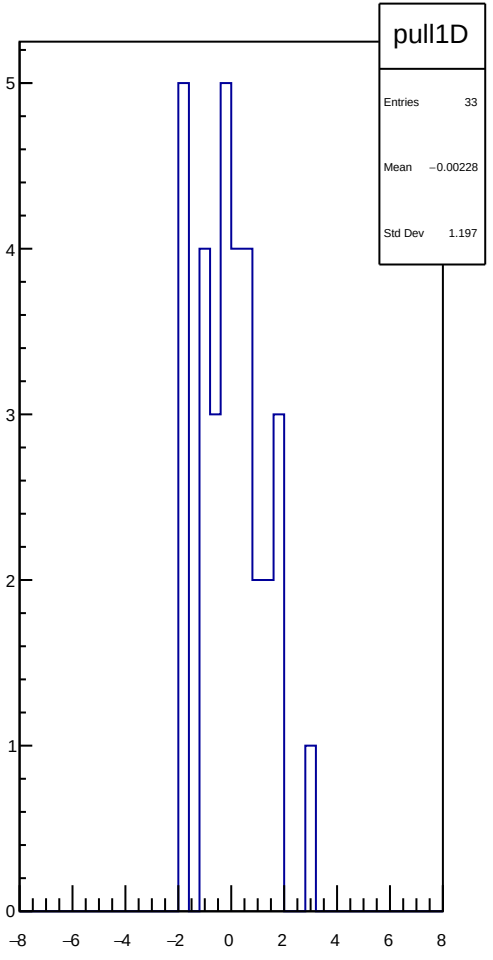

diff_cav4dY_rms vs run
×10^3
χ² / ndf 2.636e+05 / 32
p0 153.8 ± 0.2468
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

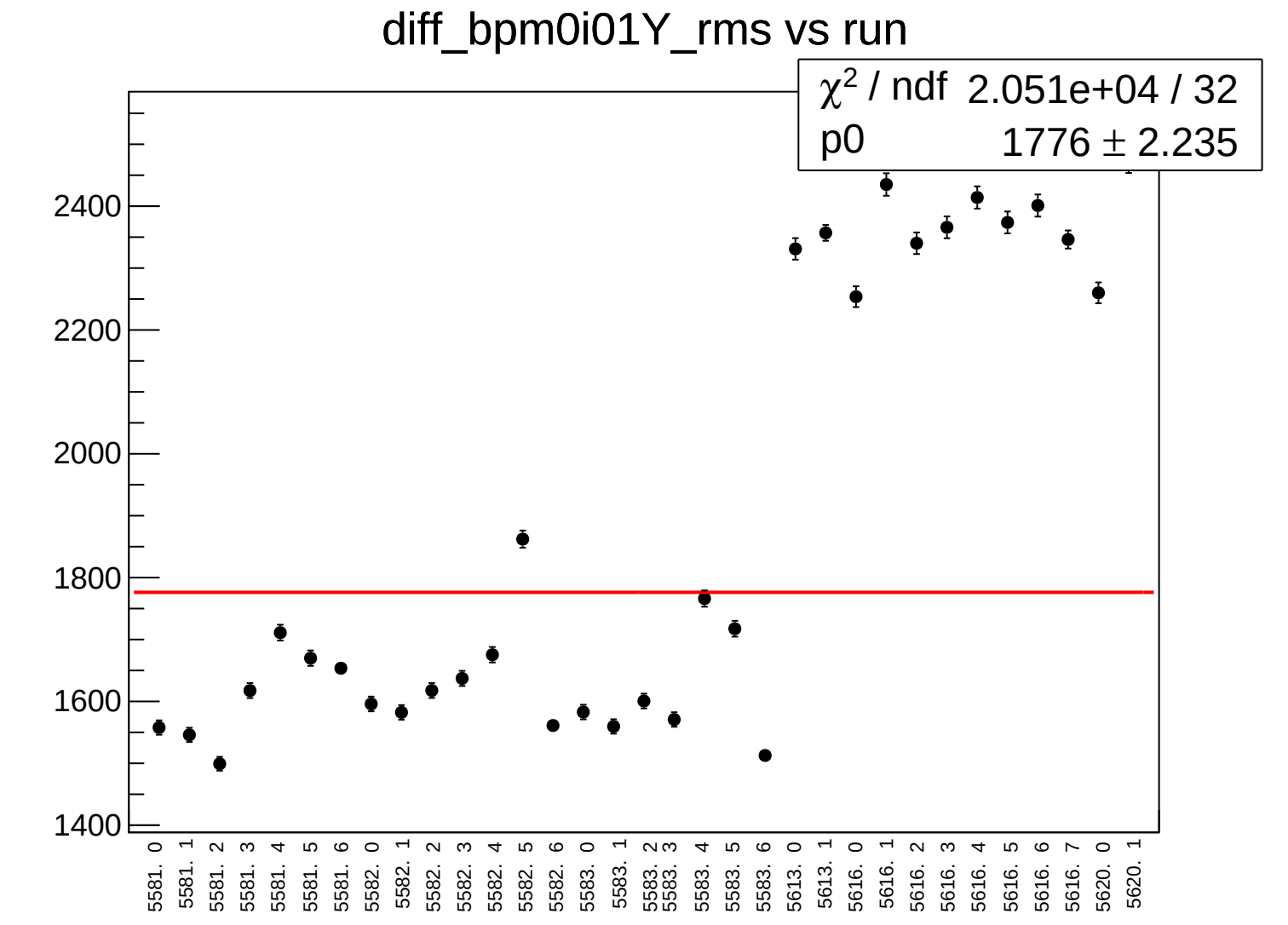

diff_bpm0i01X_mean vs run
χ² / ndf 41.63 / 32
p0 12.85 ± 3.078
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 50.49
Std Dev 0
3
2
1
0
−1

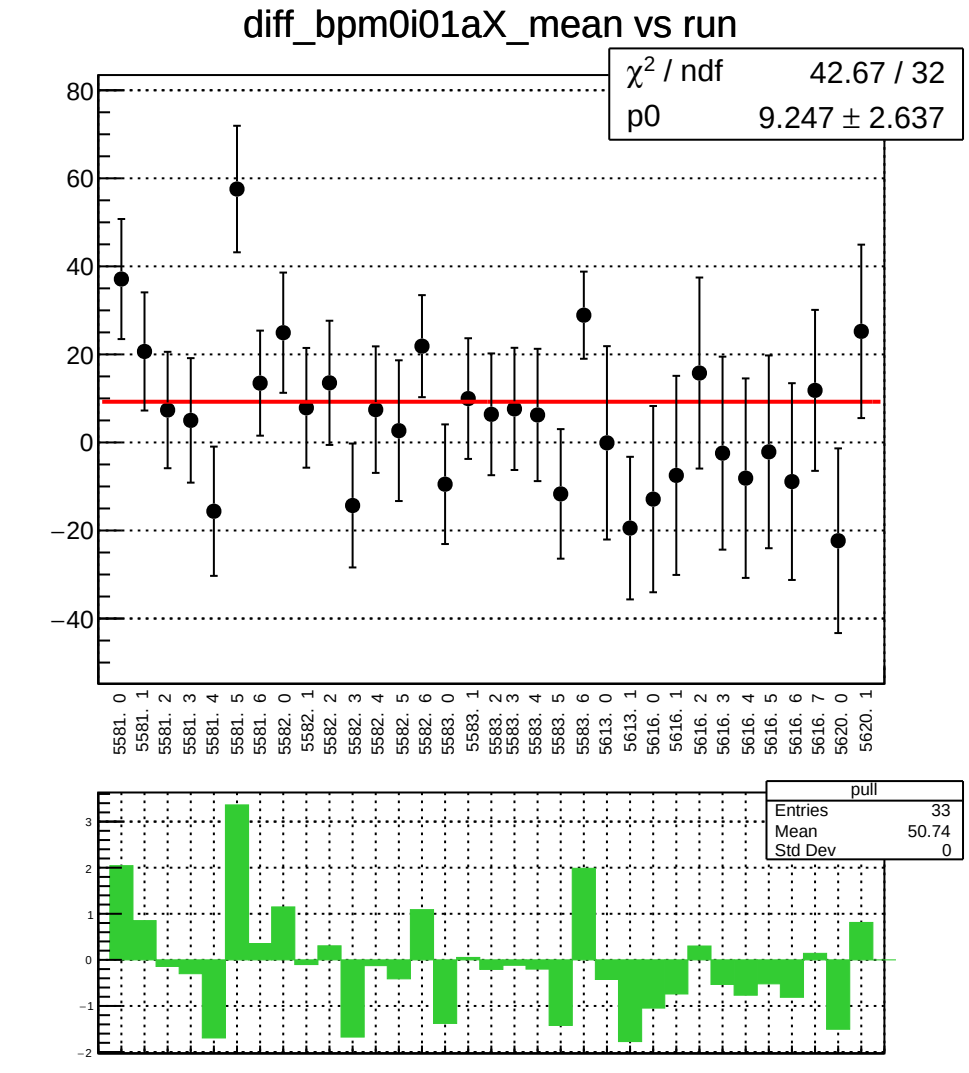

pull1D
Entries 33
Mean −0.1311
Std Dev 1.115
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

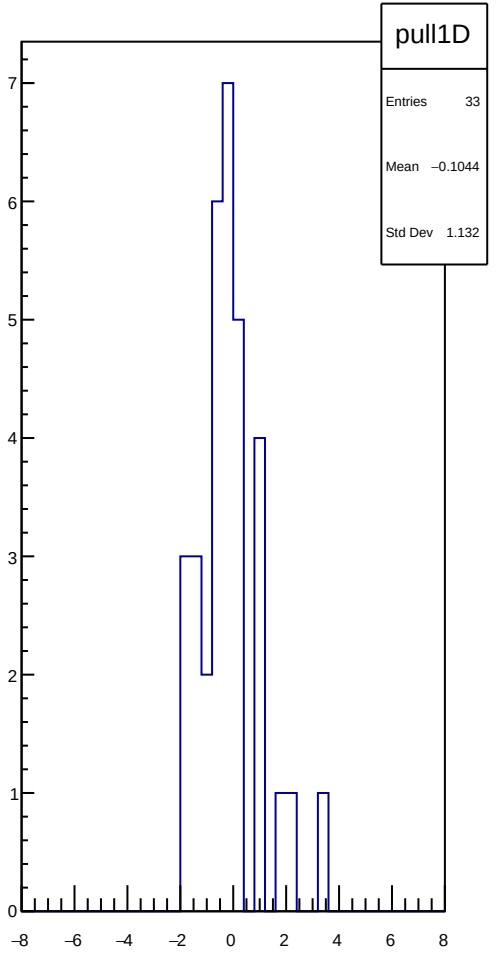

diff_bpm0i01X_rms vs run
χ² / ndf 3.013e+04 / 32
p0 1716 ± 2.176
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

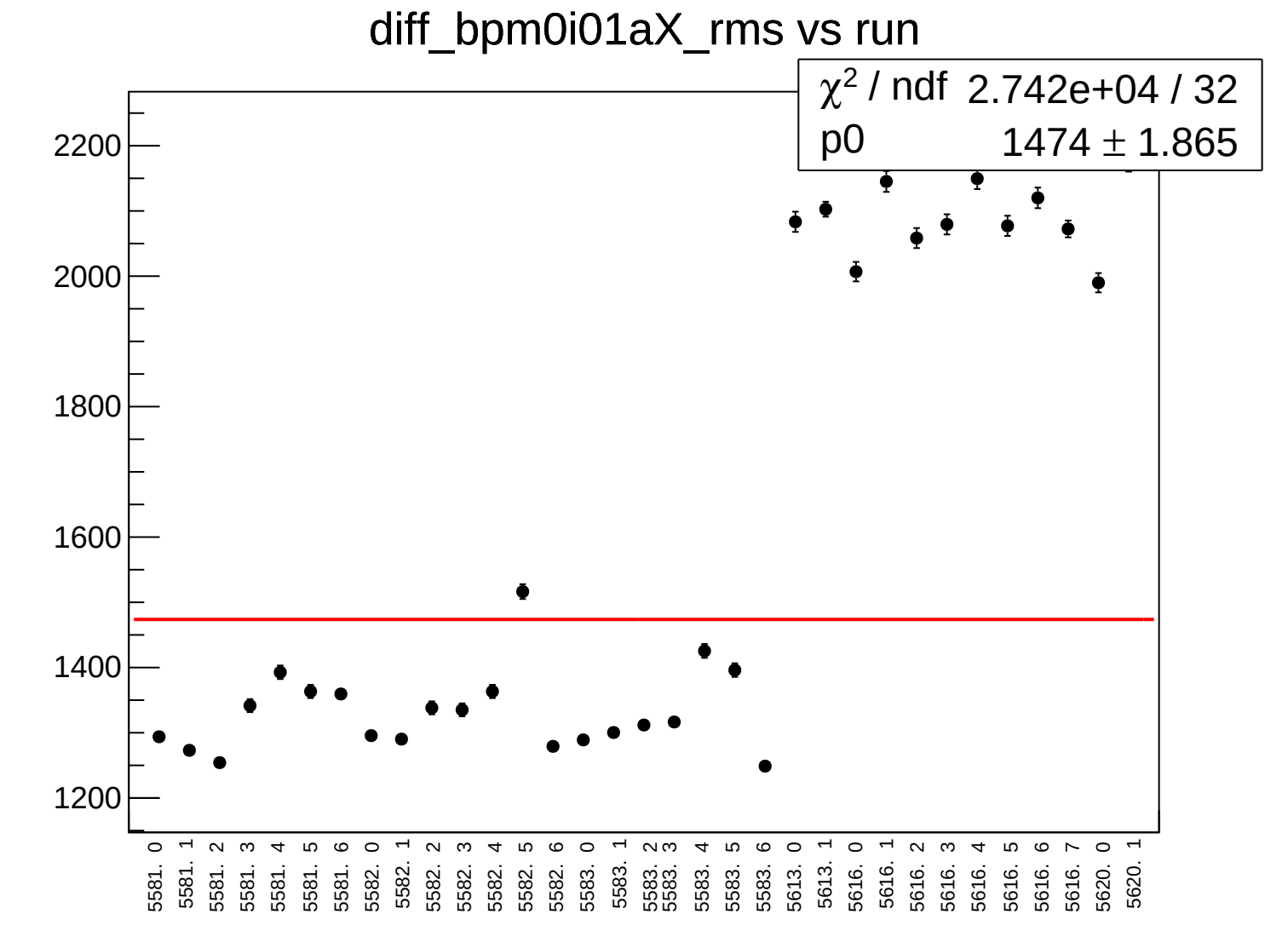

diff_bpm0i01Y_mean vs run
χ² / ndf 47.29 / 32
p0 −3.374 ± 3.161
pull
Entries 33
Mean 1061
Std Dev 0

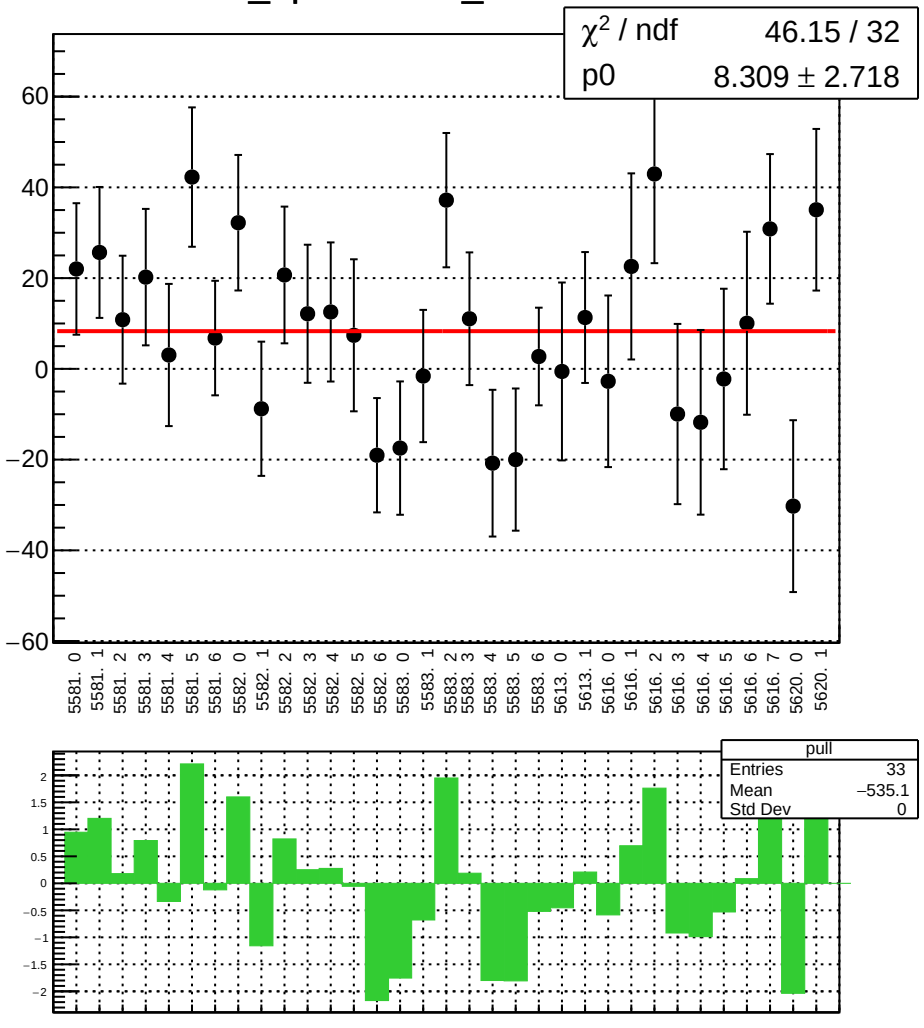

pull1D
Entries 33
Mean −0.00228
Std Dev 1.197

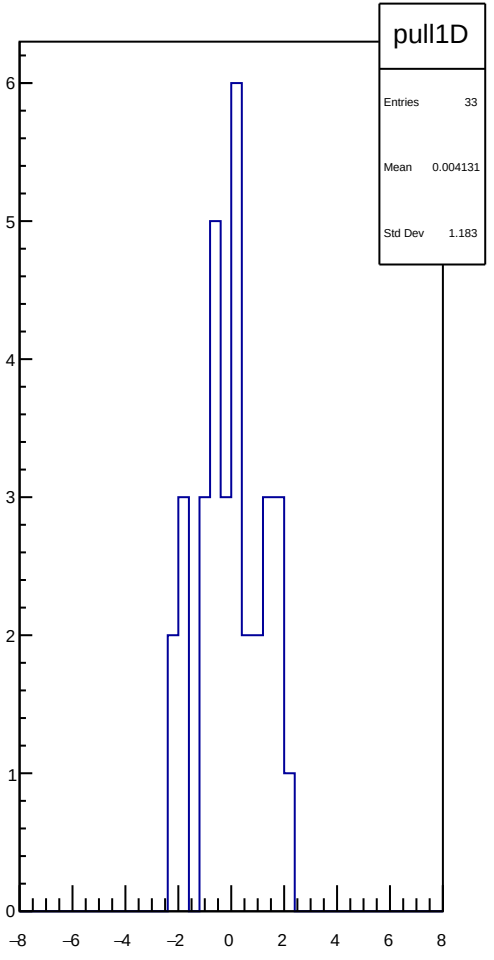

diff_bpm0i01Y_rms vs run
χ² / ndf 2.051e+04 / 32
p0 1776 ± 2.235
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

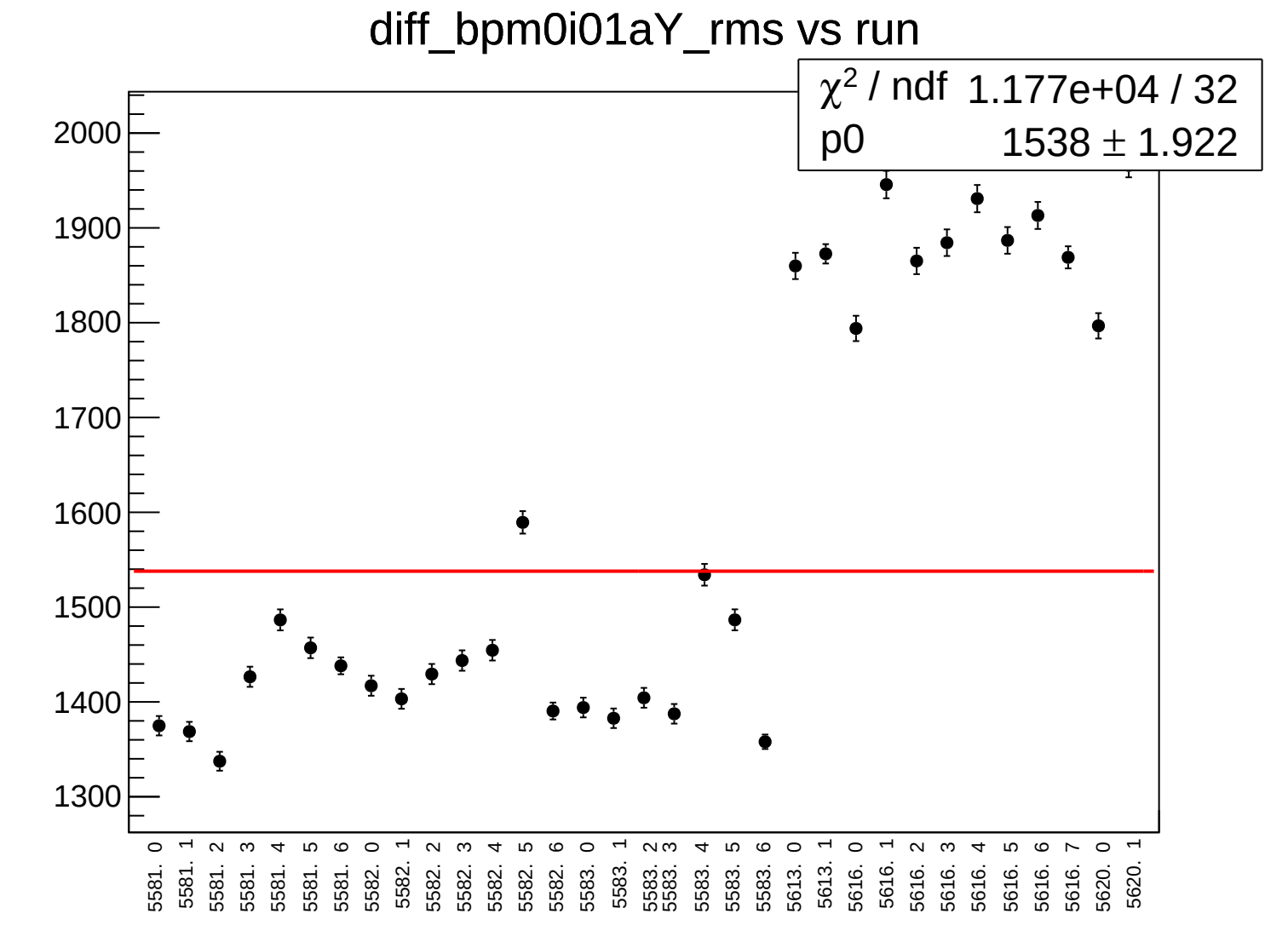

diff_bpm0i01aX_mean vs run
χ² / ndf 42.67 / 32
p0 9.247 ± 2.637
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 50.74
Std Dev 0
3
2
1
0
−1
−2

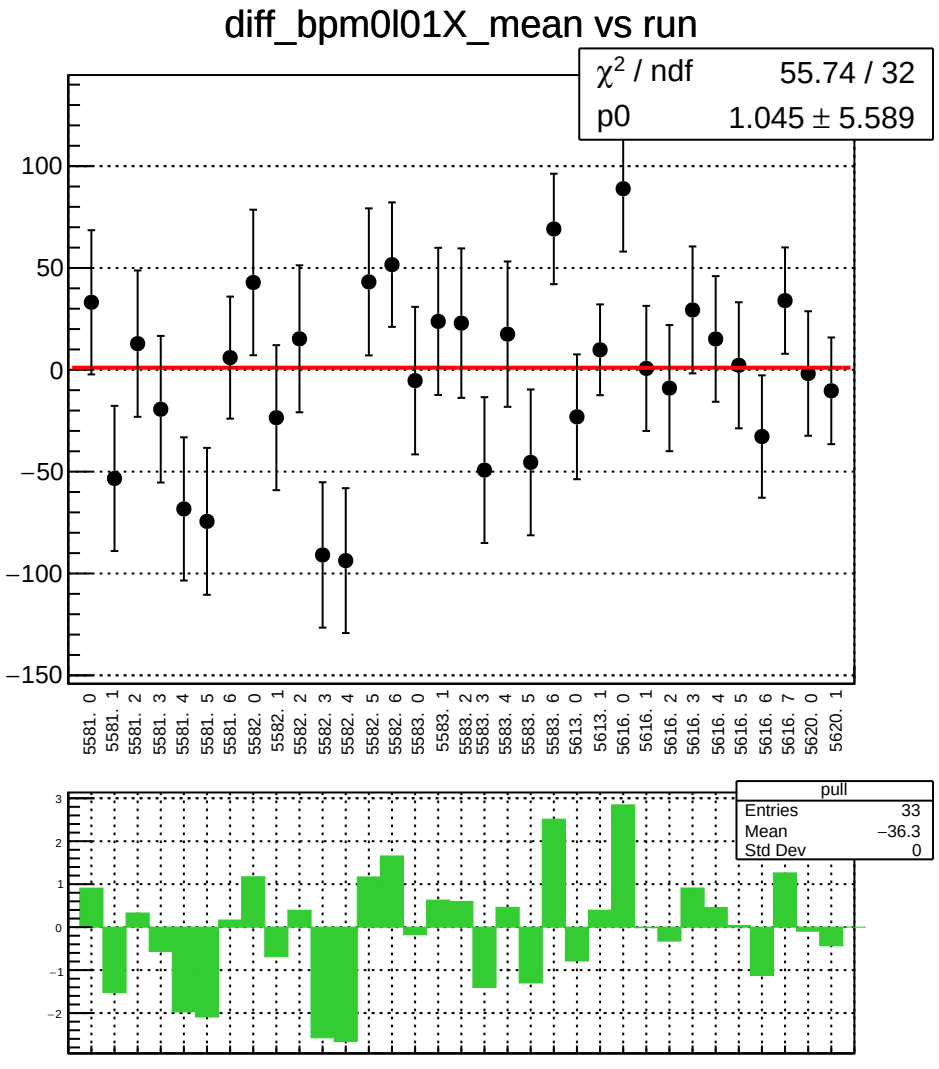

pull1D
Entries 33
Mean −0.1044
Std Dev 1.132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

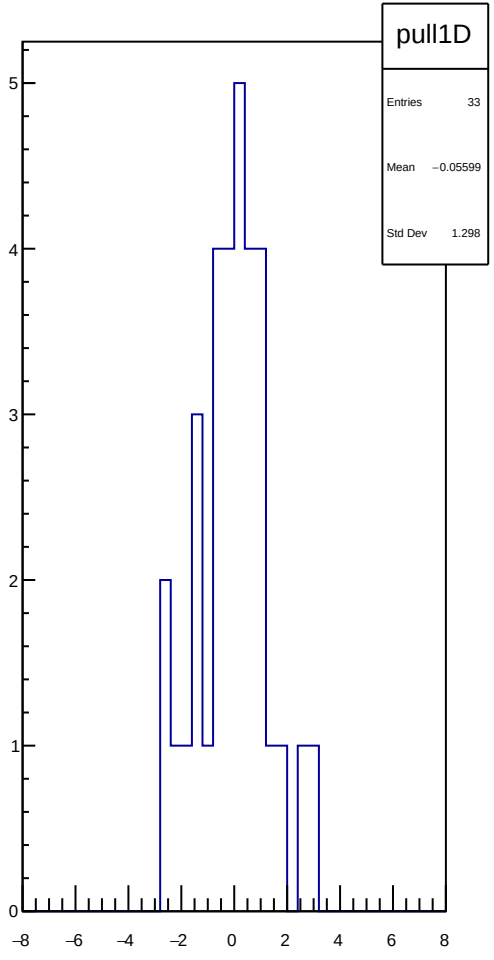

diff_bpm0i01aX_rms vs run
χ² / ndf 2.742e+04 / 32
p0 1474 ± 1.865
2200
2000
1800
1600
1400
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

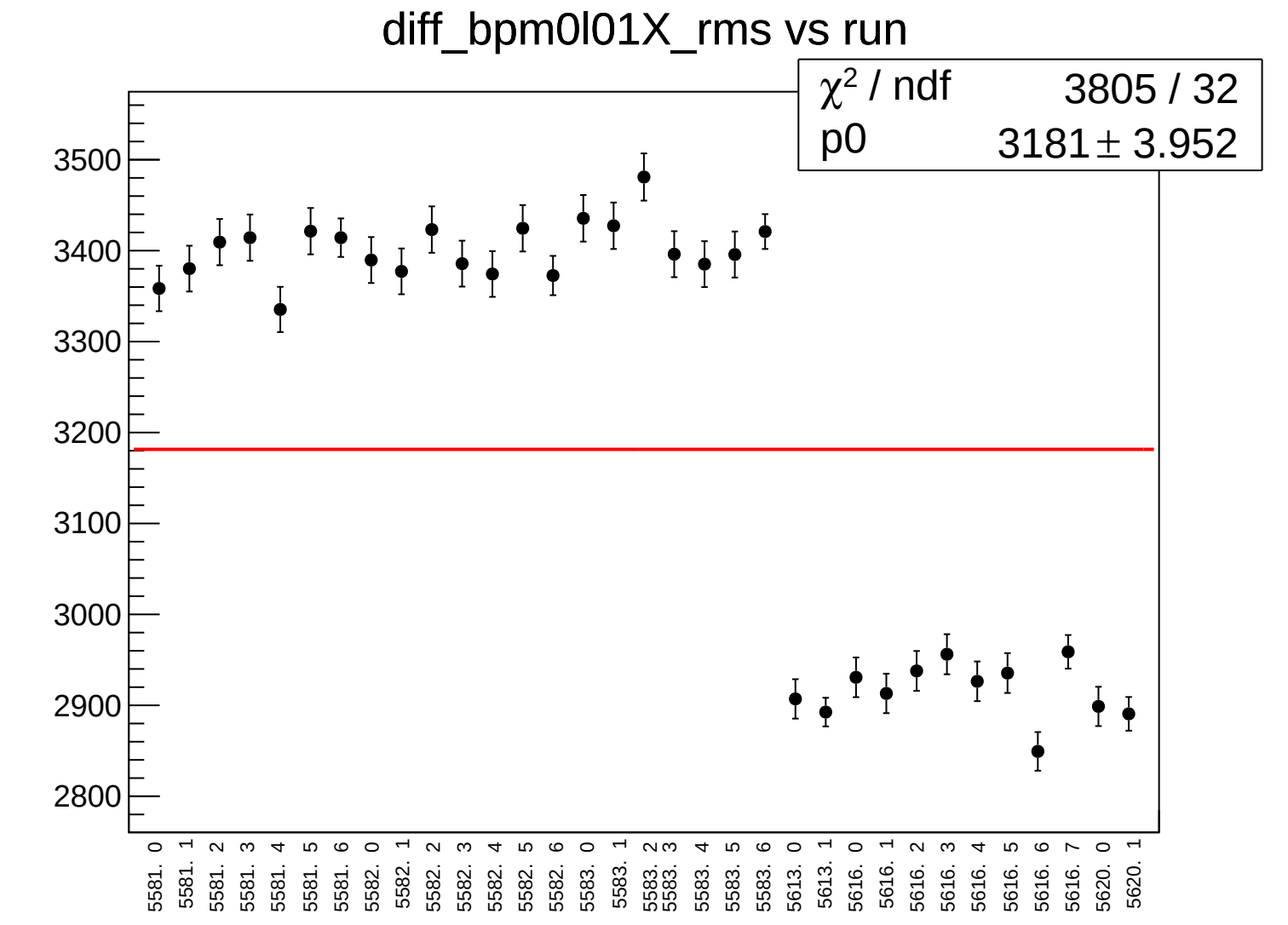

diff_bpm0i01aY_mean vs run
χ² / ndf 46.15 / 32
p0 8.309 ± 2.718
pull
Entries 33
Mean −535.1
Std Dev 0

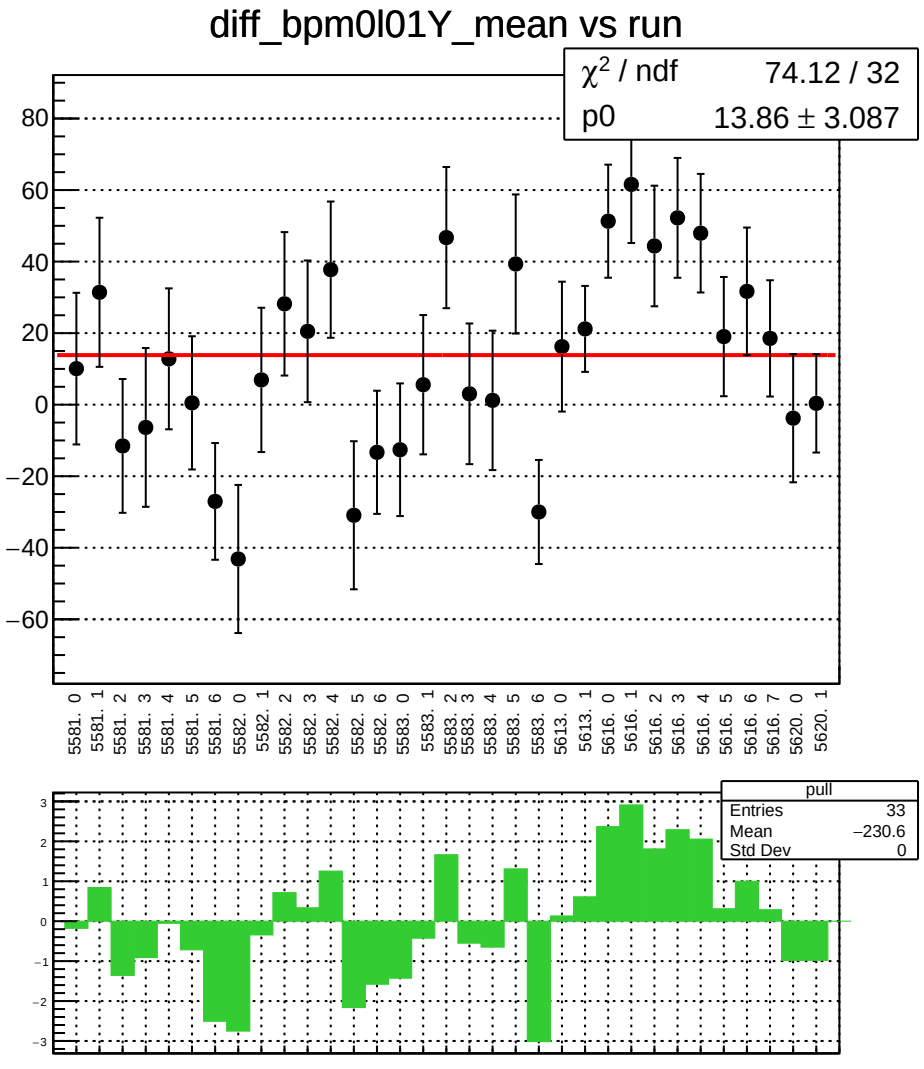

pull1D
Entries 33
Mean 0.004131
Std Dev 1.183

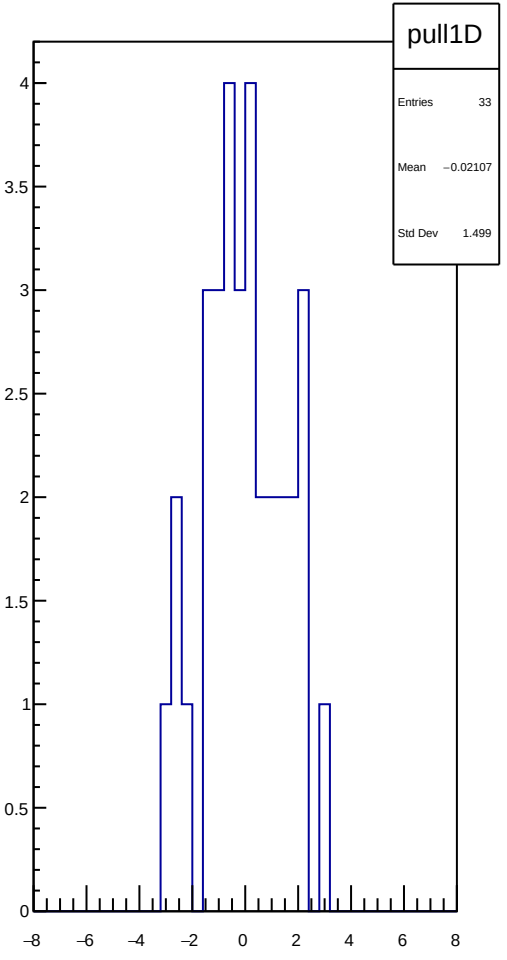

diff_bpm0i01aY_rms vs run
χ² / ndf 1.177e+04 / 32
p0 1538 ± 1.922
2000
1900
1800
1700
1600
1500
1400
1300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

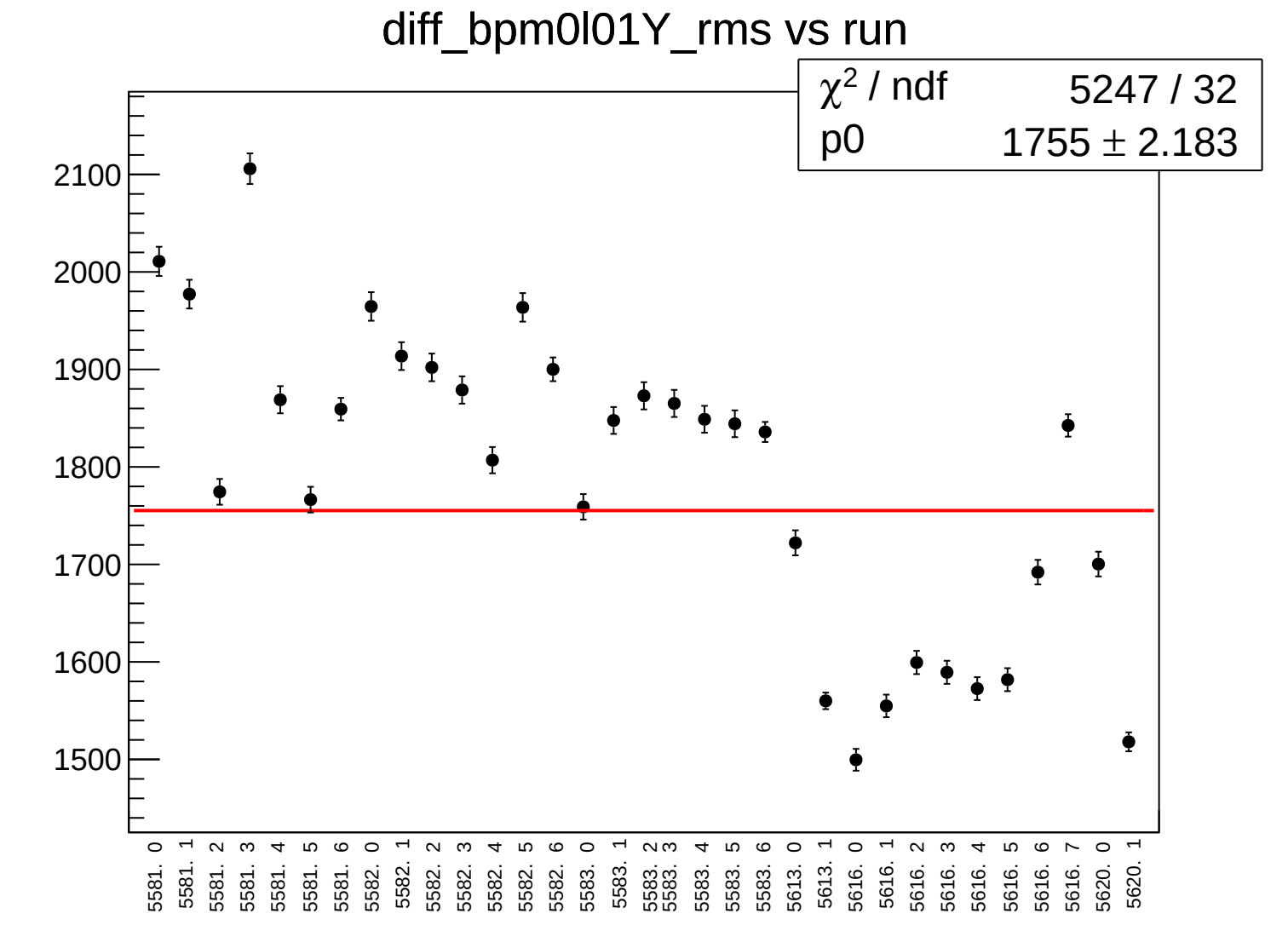

diff_bpm0l01X_mean vs run
χ^2 / ndf 55.74 / 32
p0 1.045 ± 5.589
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −36.3
Std Dev 0
3
2
1
0
−1
−2

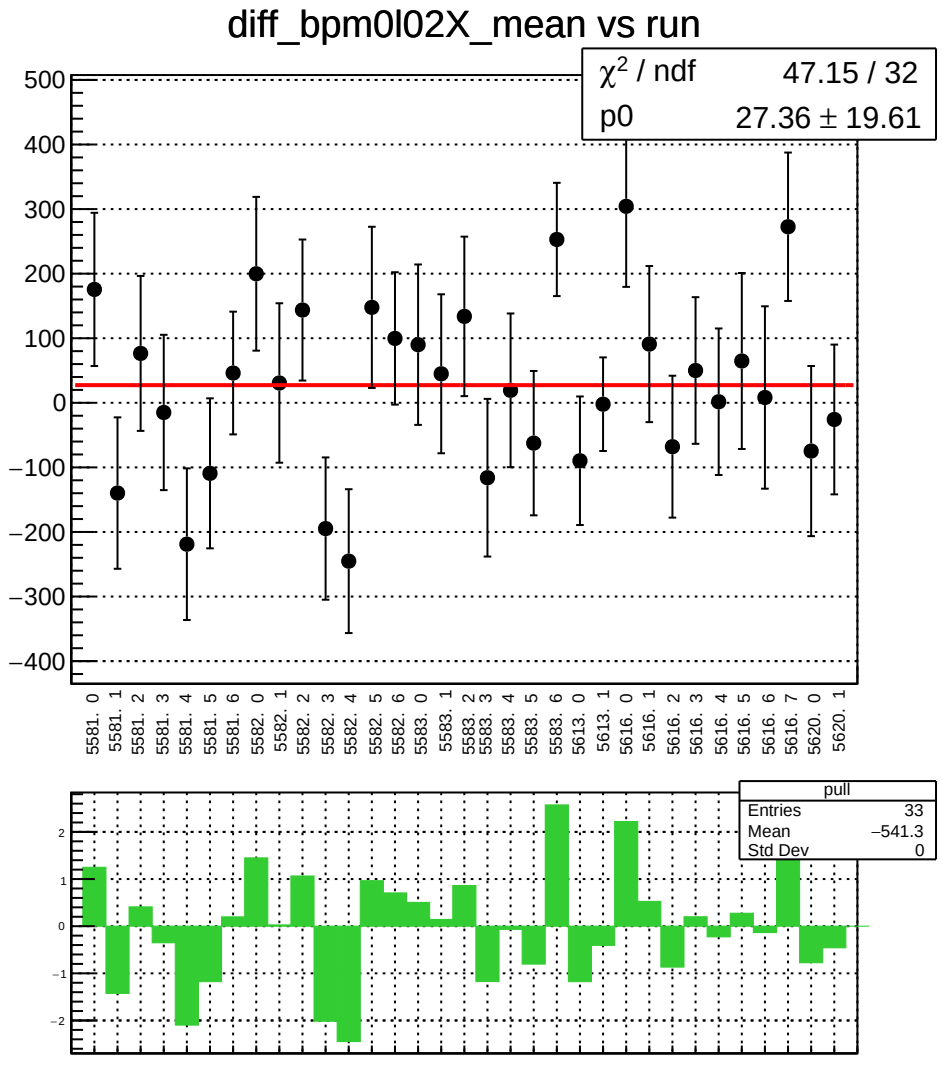

pull1D
Entries 33
Mean −0.05599
Std Dev 1.298
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

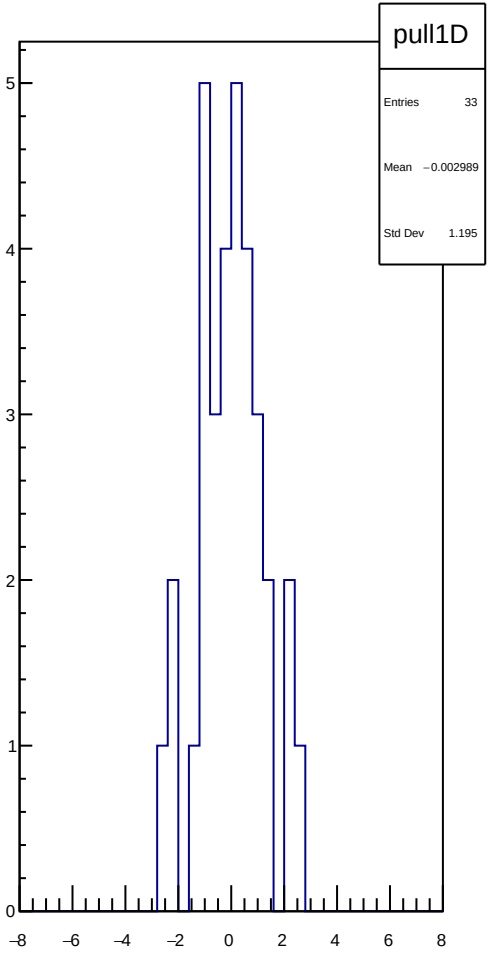

diff_bpm0l01X_rms vs run
χ² / ndf 3805 / 32
p0 3181 ± 3.952
3500
3400
3300
3200
3100
3000
2900
2800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

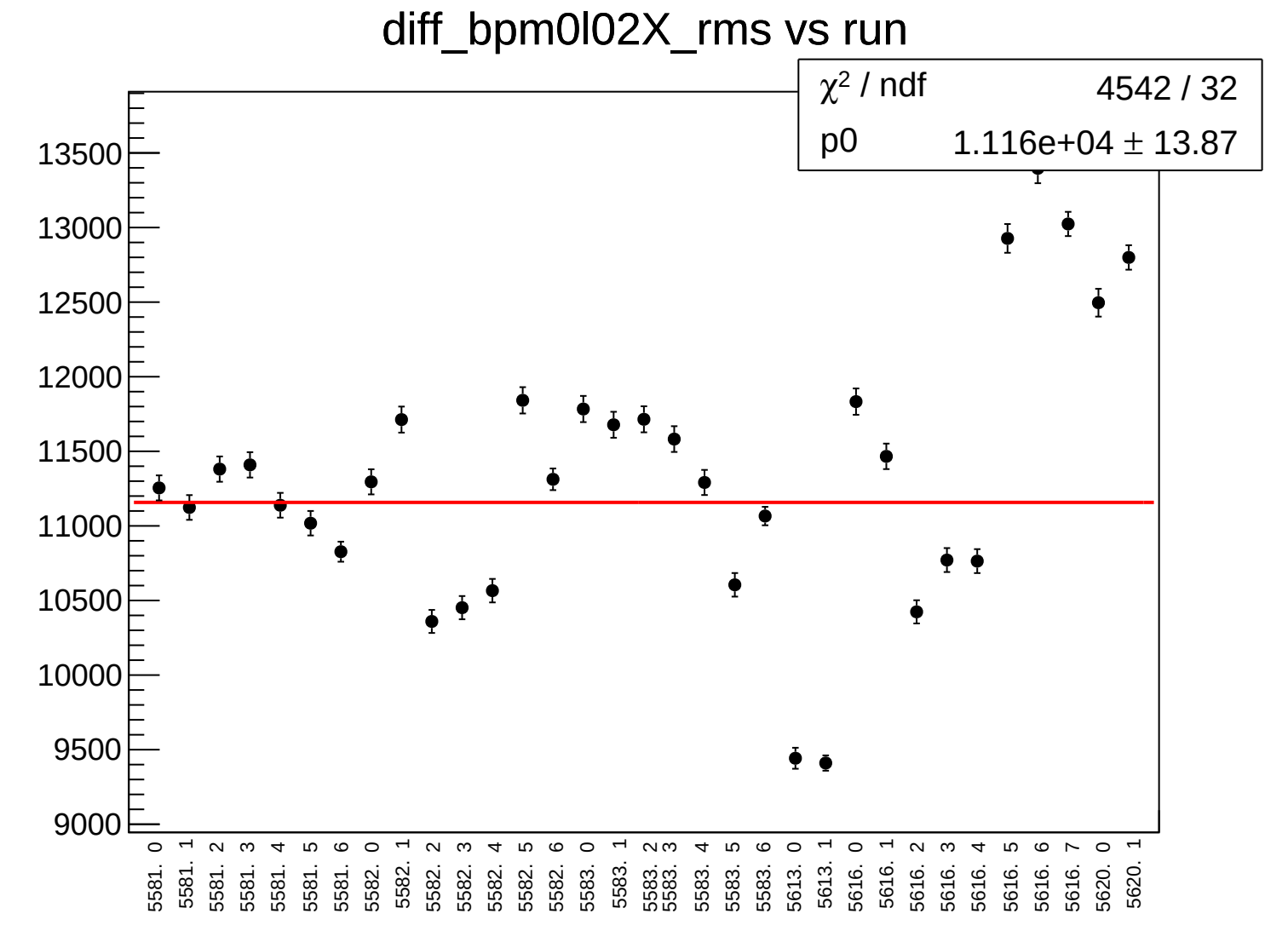

diff_bpm0l01Y_mean vs run
χ² / ndf 74.12 / 32
p0 13.86 ± 3.087
pull
Entries 33
Mean −230.6
Std Dev 0

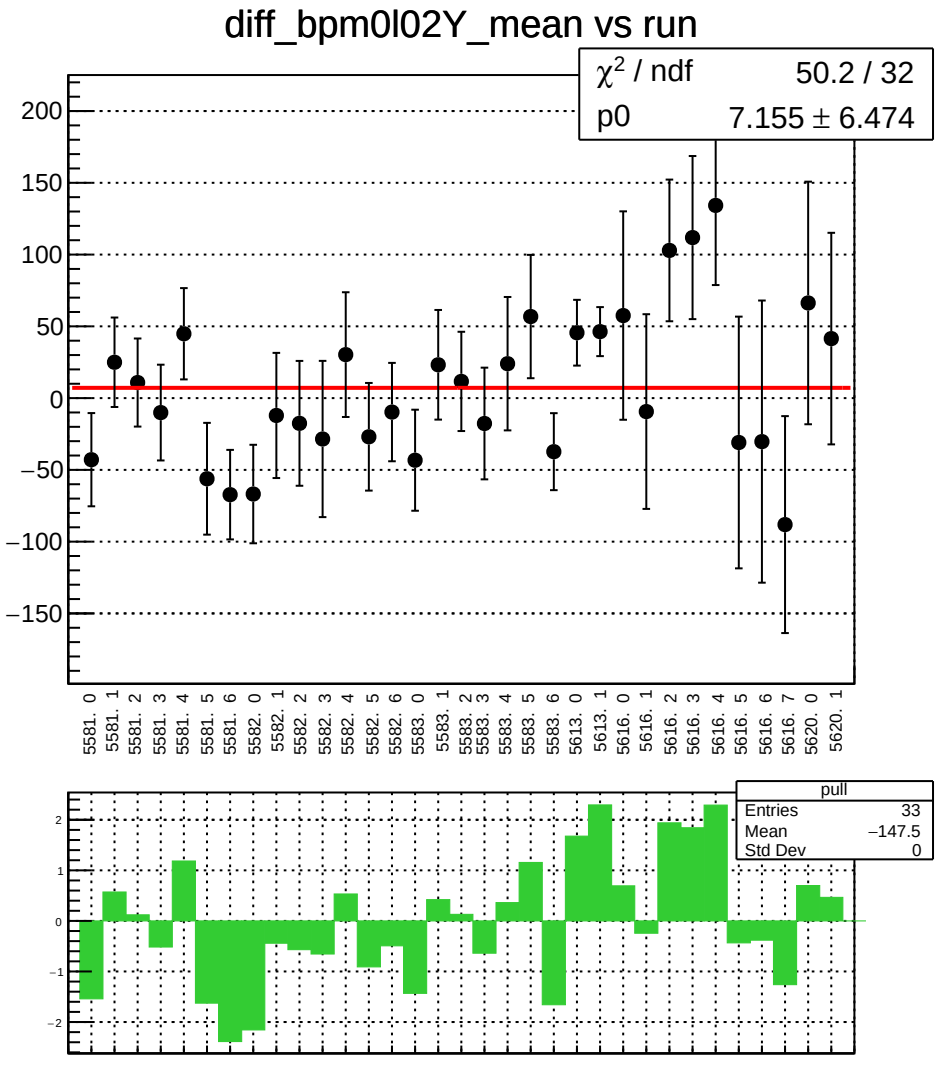

pull1D
Entries 33
Mean −0.02107
Std Dev 1.499

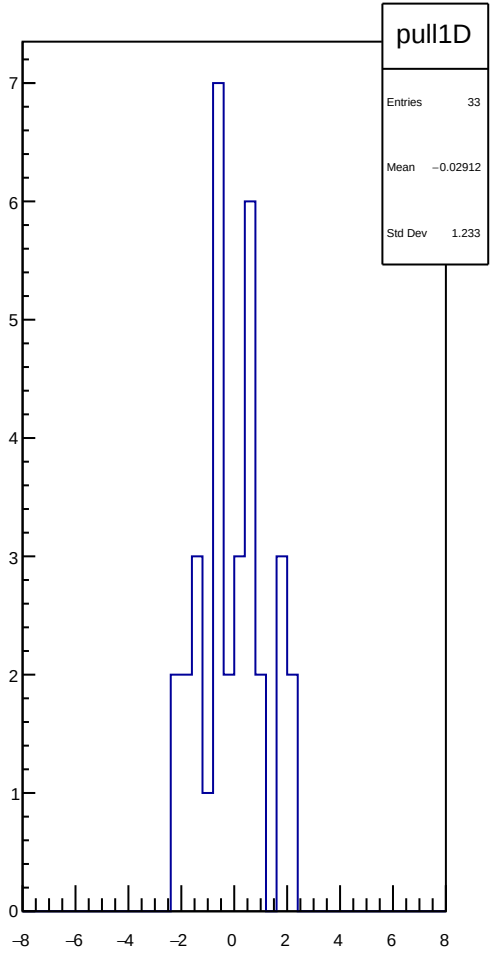

diff_bpm0l01Y_rms vs run
χ² / ndf 5247 / 32
p0 1755 ± 2.183
2100
2000
1900
1800
1700
1600
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

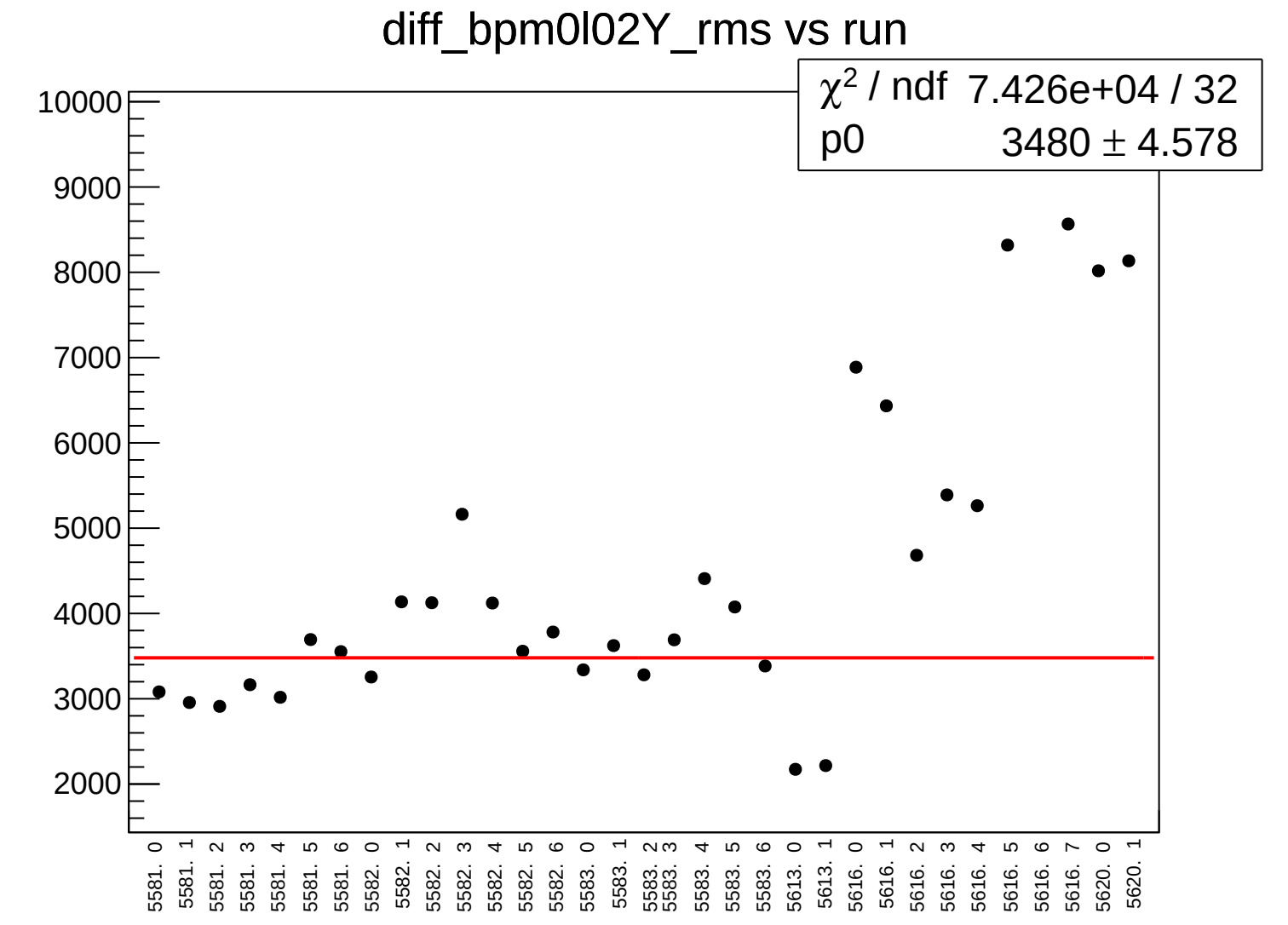

diff_bpm0l02X_mean vs run
χ² / ndf 47.15 / 32
p0 27.36 ± 19.61
pull
Entries 33
Mean −541.3
Std Dev 0

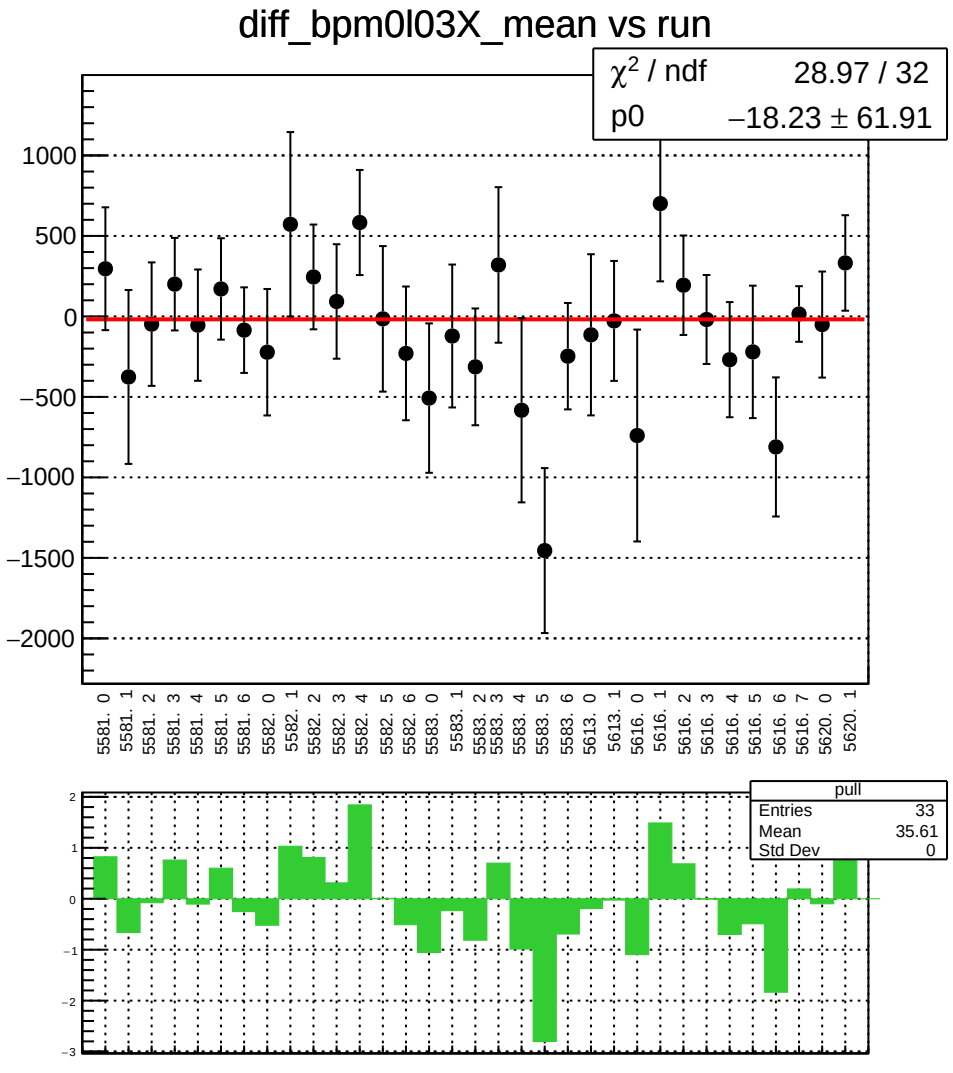

pull1D
Entries 33
Mean −0.002989
Std Dev 1.195

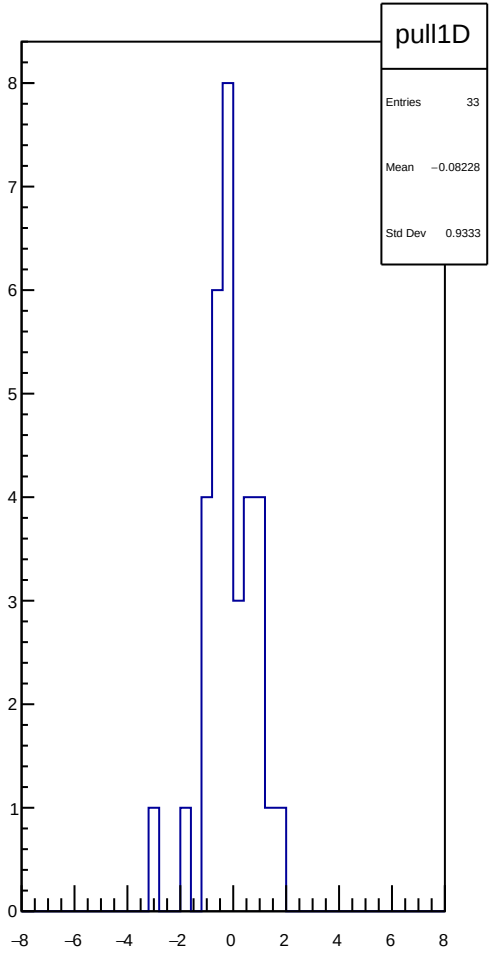

diff_bpm0l02X_rms vs run
χ² / ndf 4542 / 32
p0 1.116e+04 ± 13.87
13500
13000
12500
12000
11500
11000
10500
10000
9500
9000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

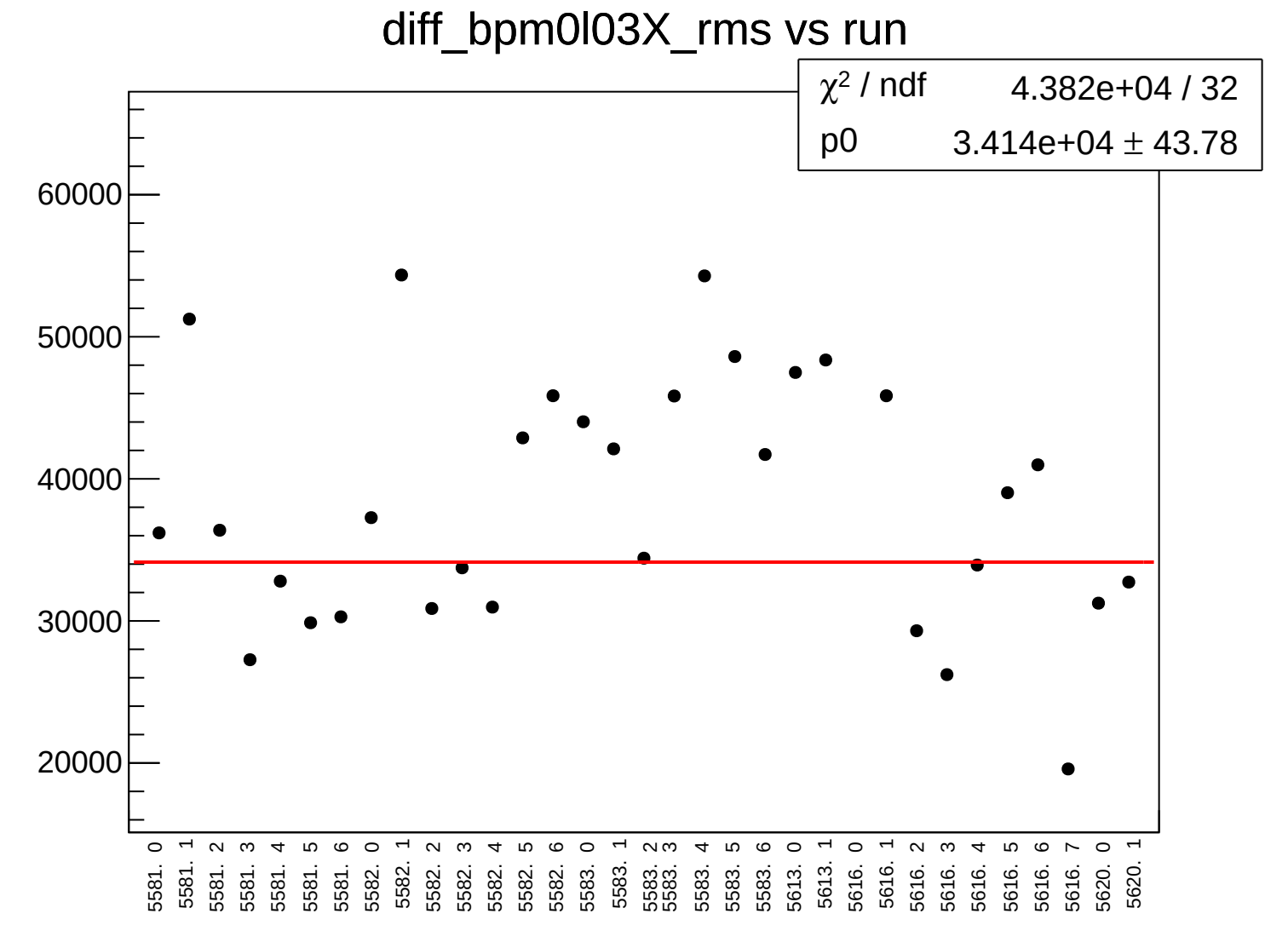

diff_bpm0l02Y_mean vs run
χ² / ndf 50.2 / 32
p0 7.155 ± 6.474
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −147.5
Std Dev 0
2
1
0
−1
−2

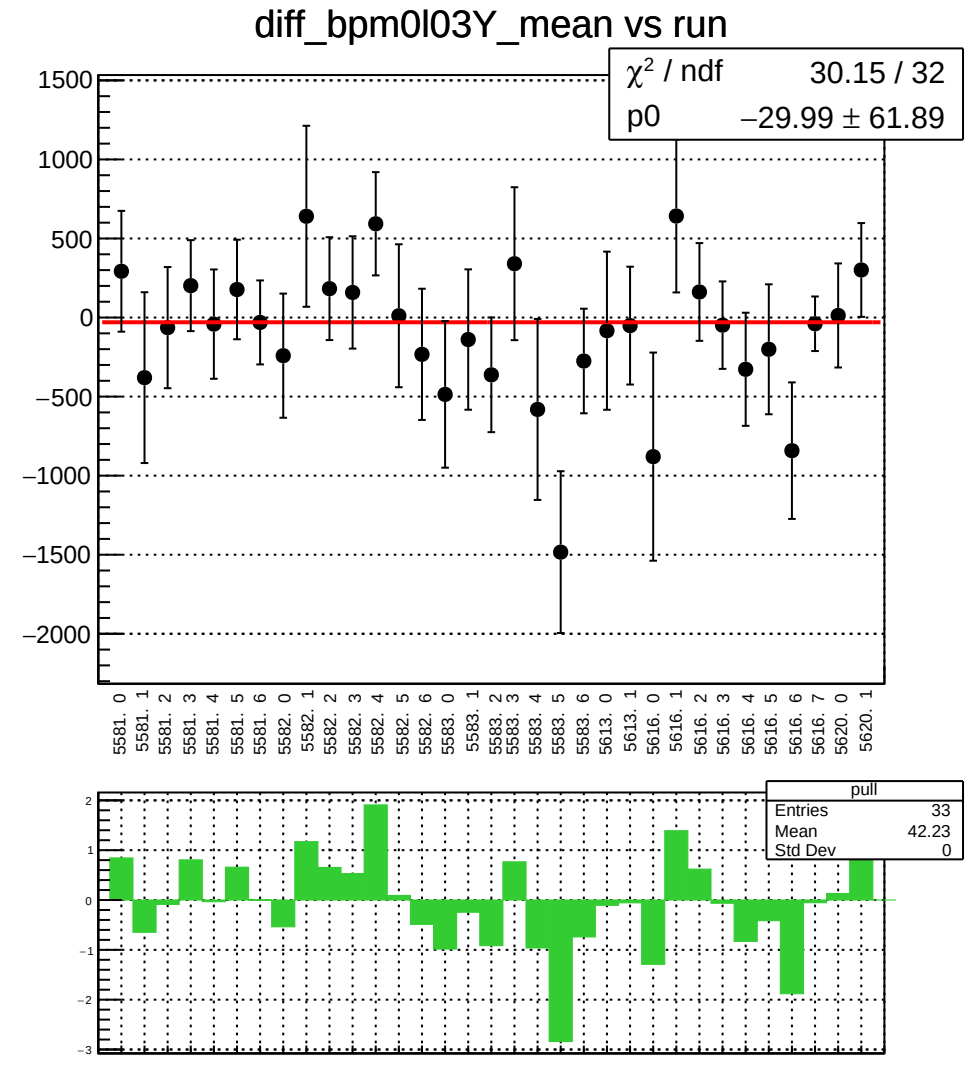

pull1D
Entries 33
Mean −0.02912
Std Dev 1.233
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

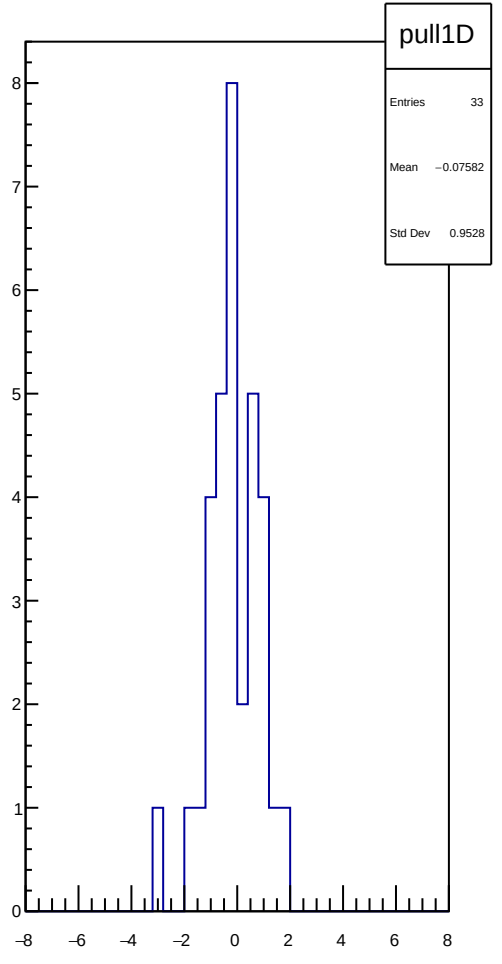

diff_bpm0l02Y_rms vs run
χ² / ndf 7.426e+04 / 32
p0 3480 ± 4.578
10000
9000
8000
7000
6000
5000
4000
3000
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

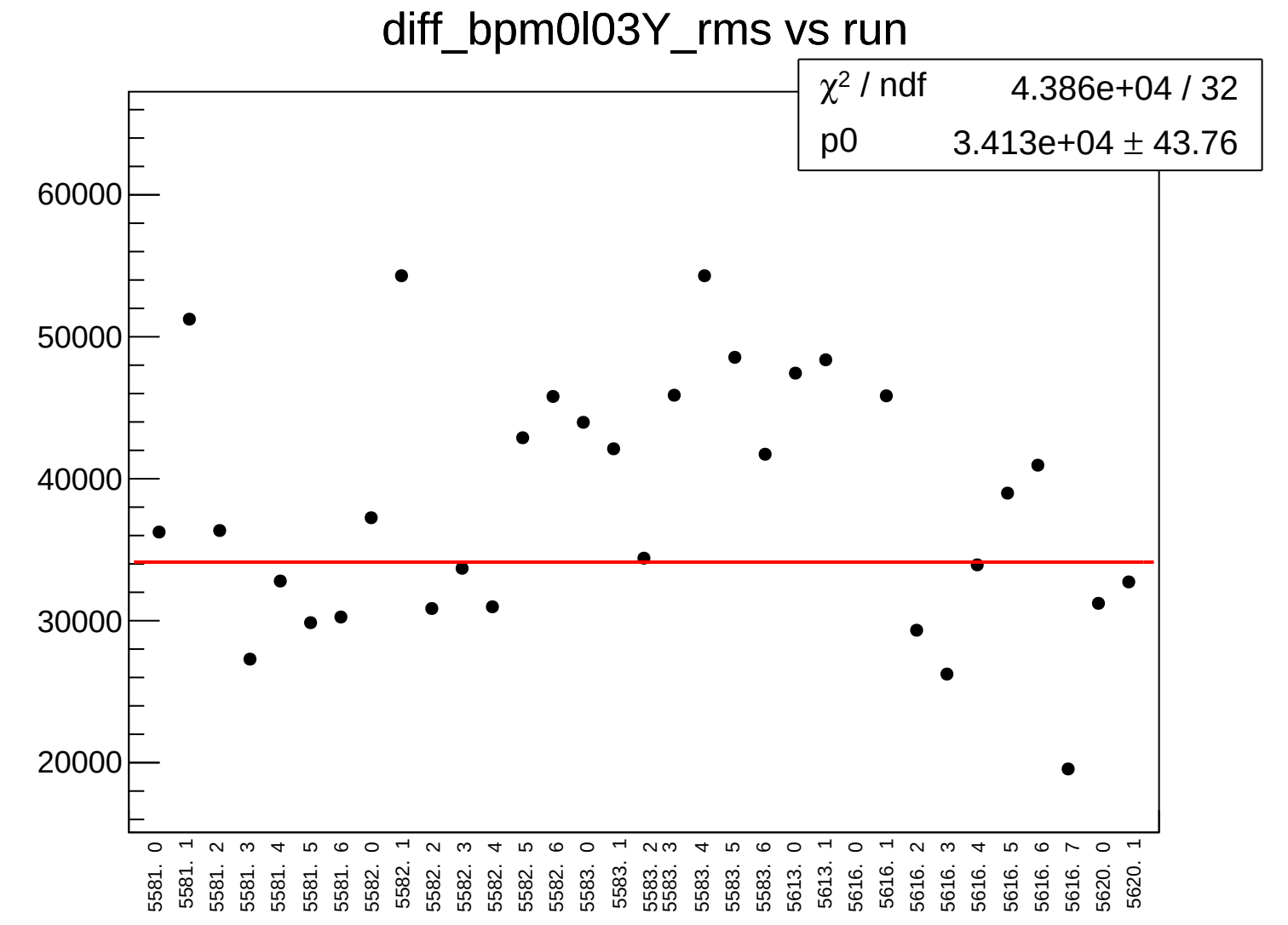

diff_bpm0l03X_mean vs run
χ² / ndf 28.97 / 32
p0 −18.23 ± 61.91
1000
500
0
−500
−1000
−1500
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.61
Std Dev 0
2
1
0
−1
−2
−3

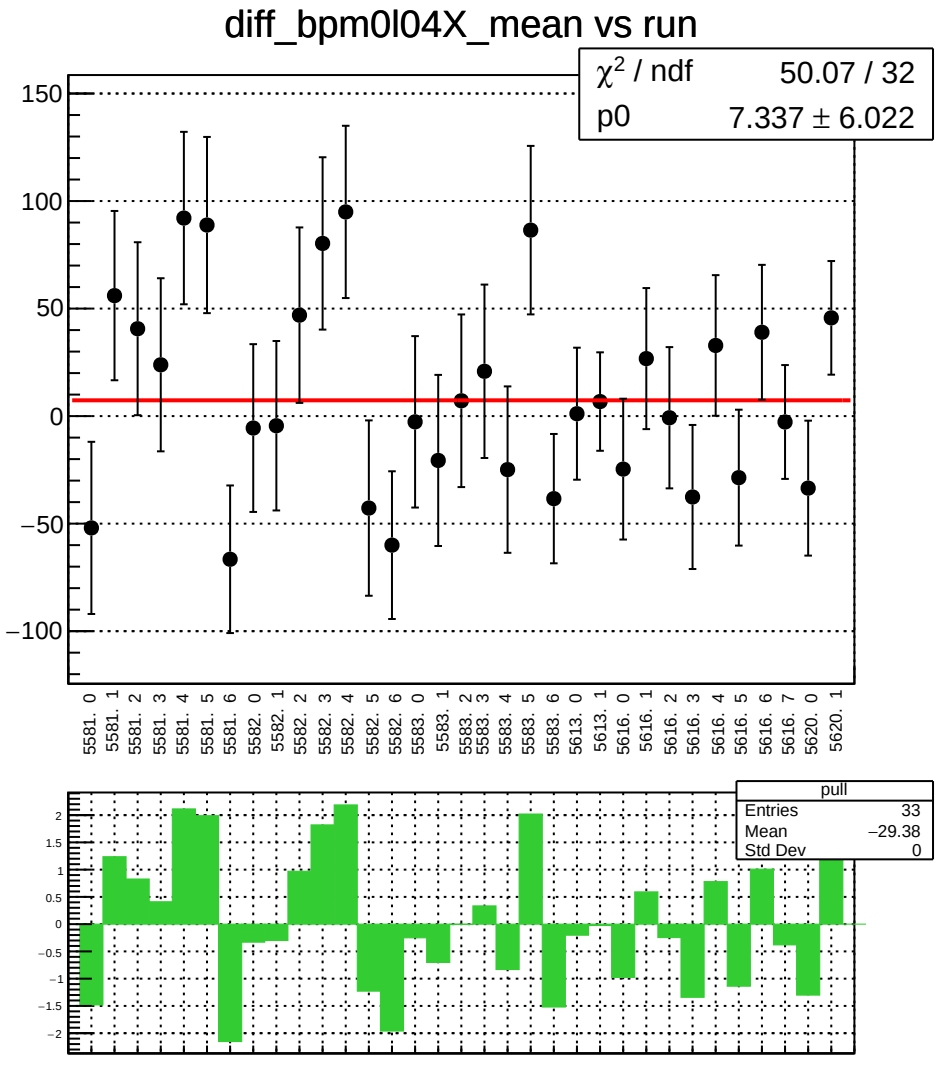

pull1D
Entries 33
Mean −0.08228
Std Dev 0.9333
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

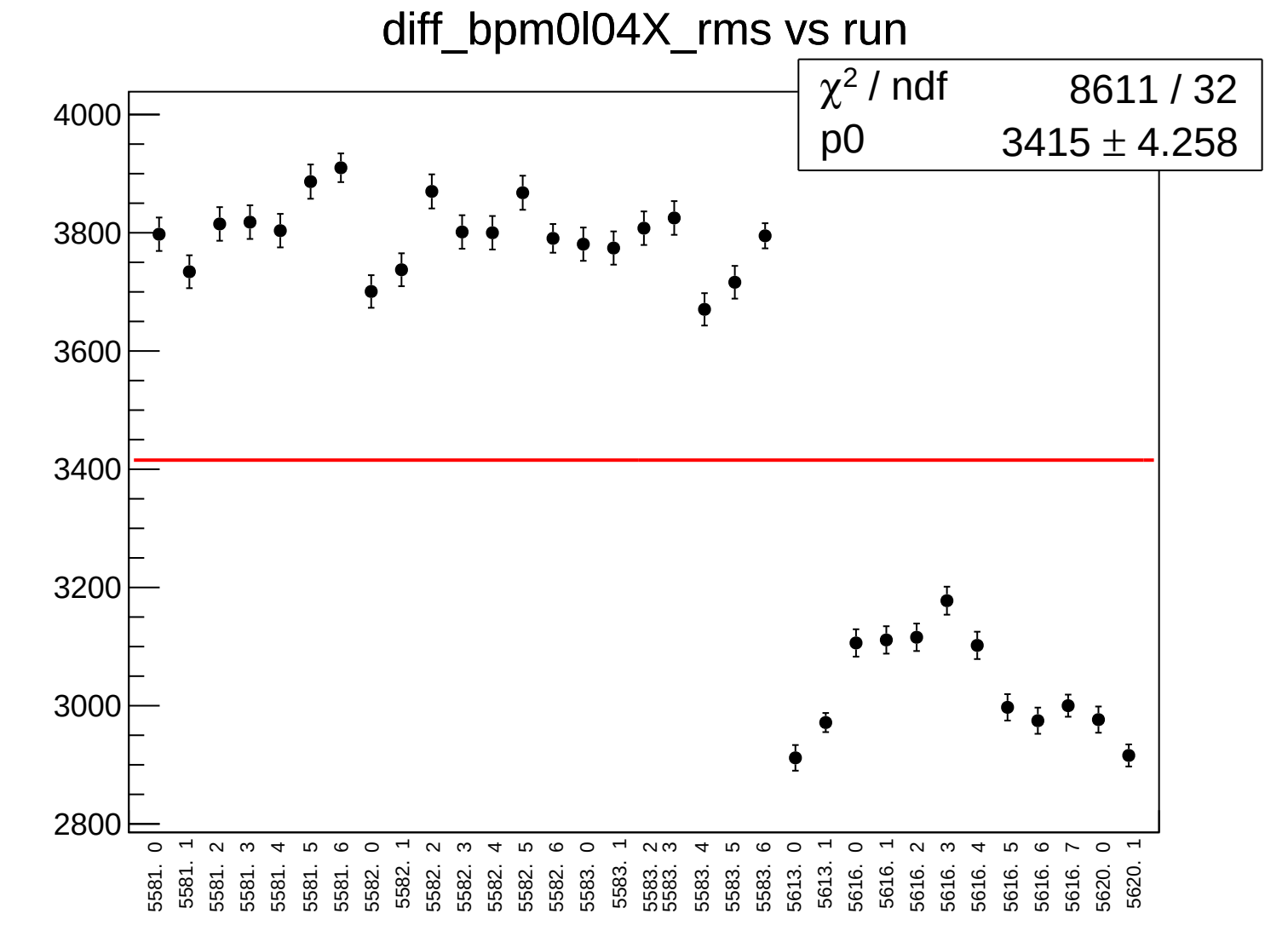

diff_bpm0l03X_rms vs run
χ² / ndf 4.382e+04 / 32
p0 3.414e+04 ± 43.78
60000
50000
40000
30000
20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

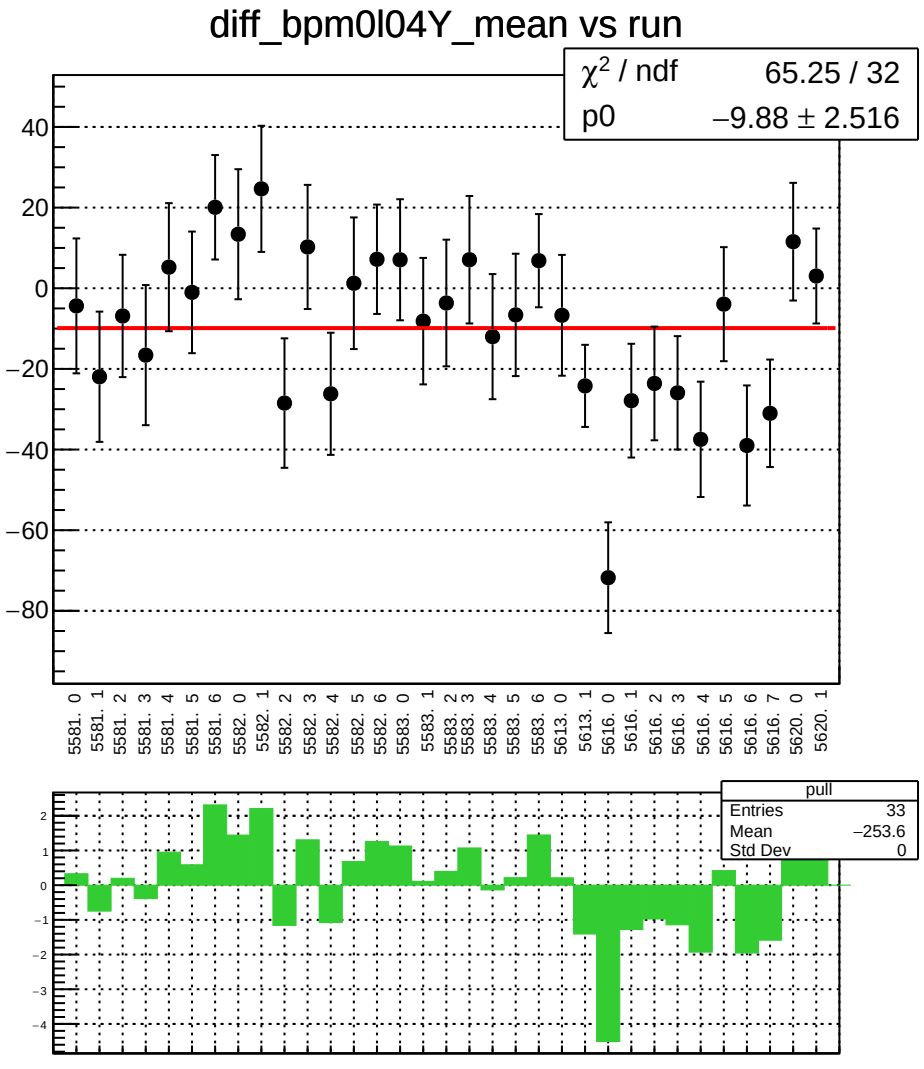

diff_bpm0l03Y_mean vs run
χ² / ndf 30.15 / 32
p0 −29.99 ± 61.89
1500
1000
500
0
−500
−1000
−1500
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 42.23
Std Dev 0
2
1
0
−1
−2
−3

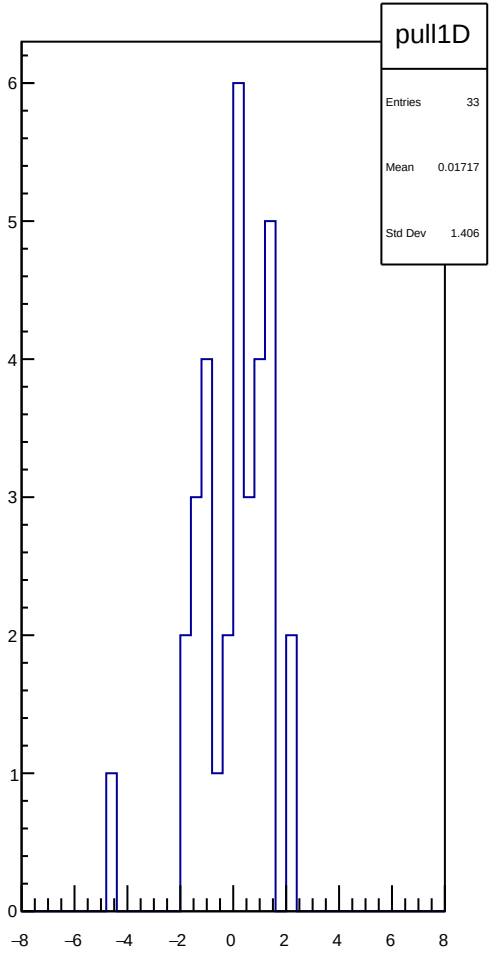

pull1D
Entries 33
Mean −0.07582
Std Dev 0.9528
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

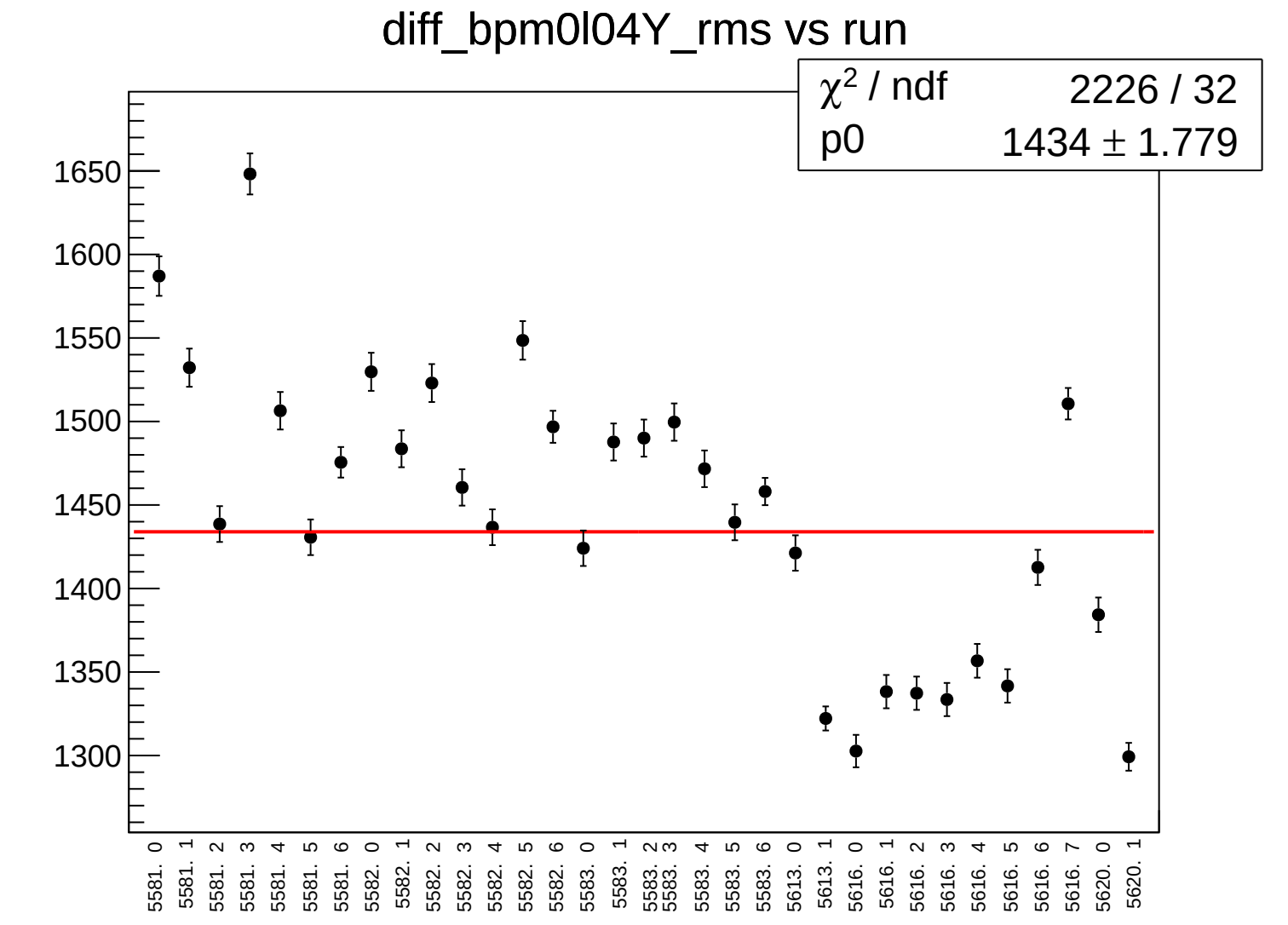

diff_bpm0l03Y_rms vs run
χ² / ndf 4.386e+04 / 32
p0 3.413e+04 ± 43.76
60000
50000
40000
30000
20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

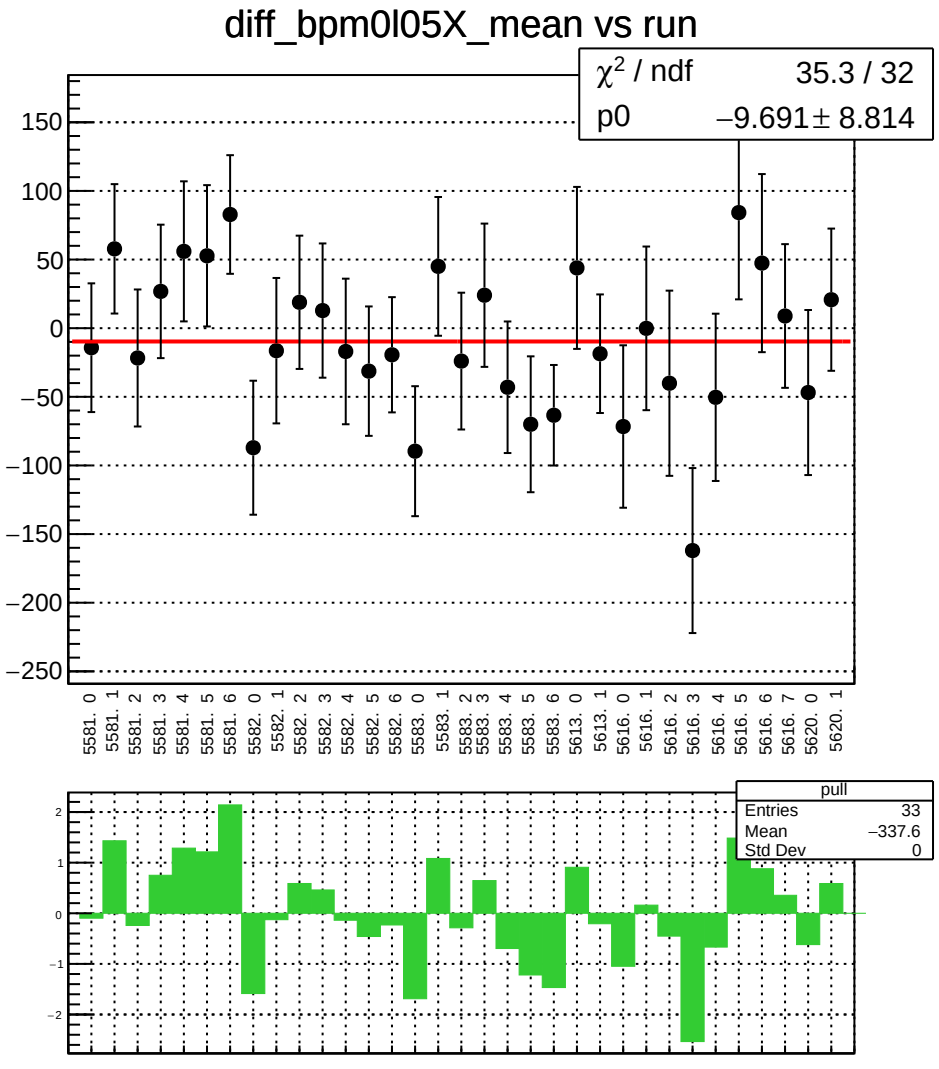

diff_bpm0l04X_mean vs run
χ² / ndf 50.07 / 32
p0 7.337 ± 6.022
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −29.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.04135
Std Dev 1.231
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

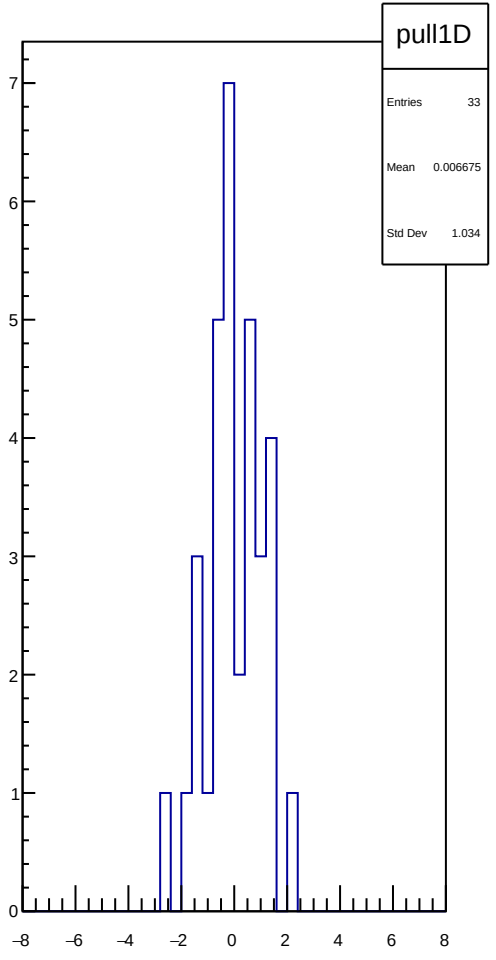

diff_bpm0l04X_rms vs run
χ² / ndf 8611 / 32
p0 3415 ± 4.258
4000
3800
3600
3400
3200
3000
2800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

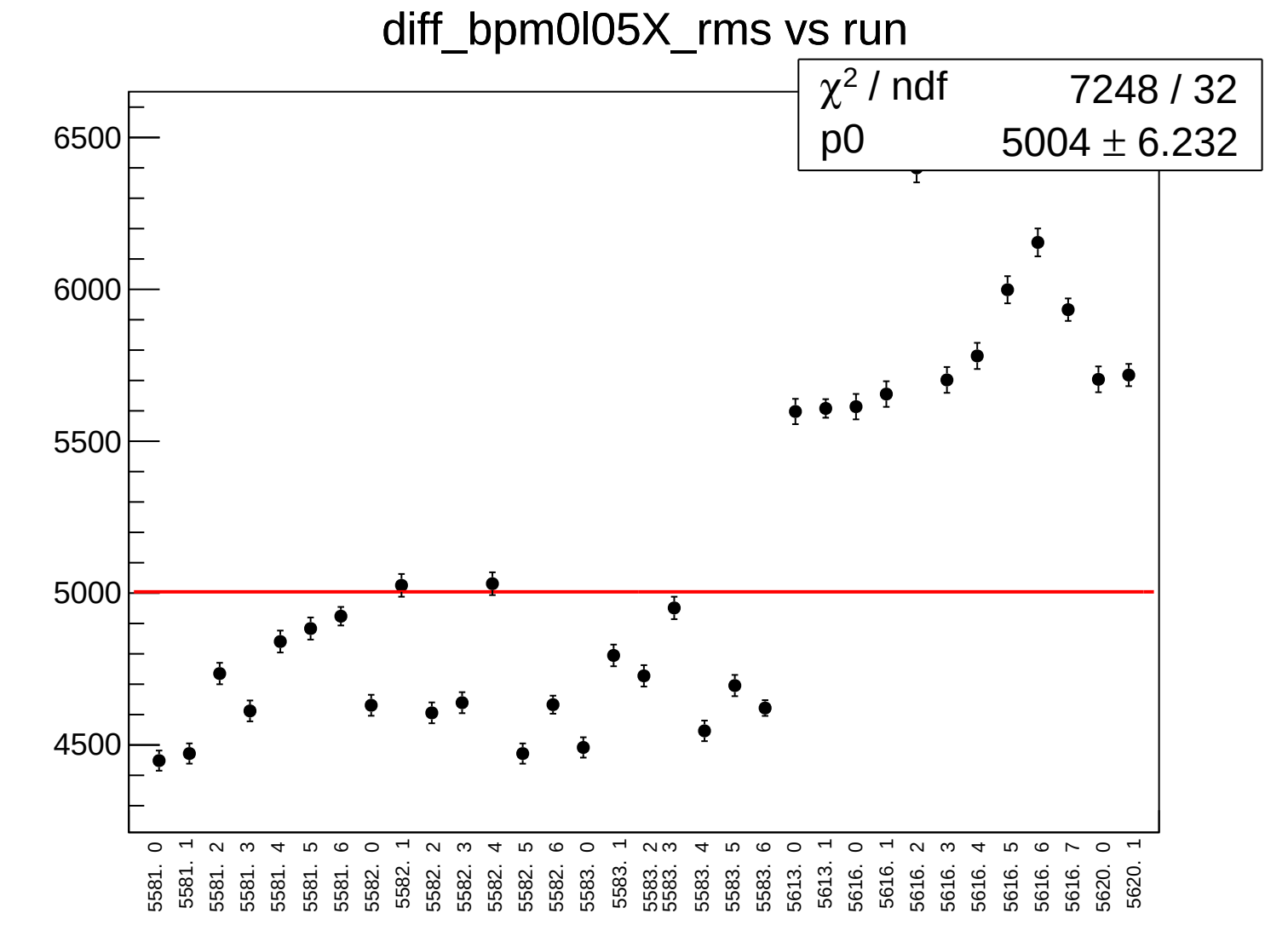

diff_bpm0l04Y_mean vs run
χ² / ndf 65.25 / 32
p0 −9.88 ± 2.516
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −253.6
Std Dev 0
2
1
0
−1
−2
−3
−4

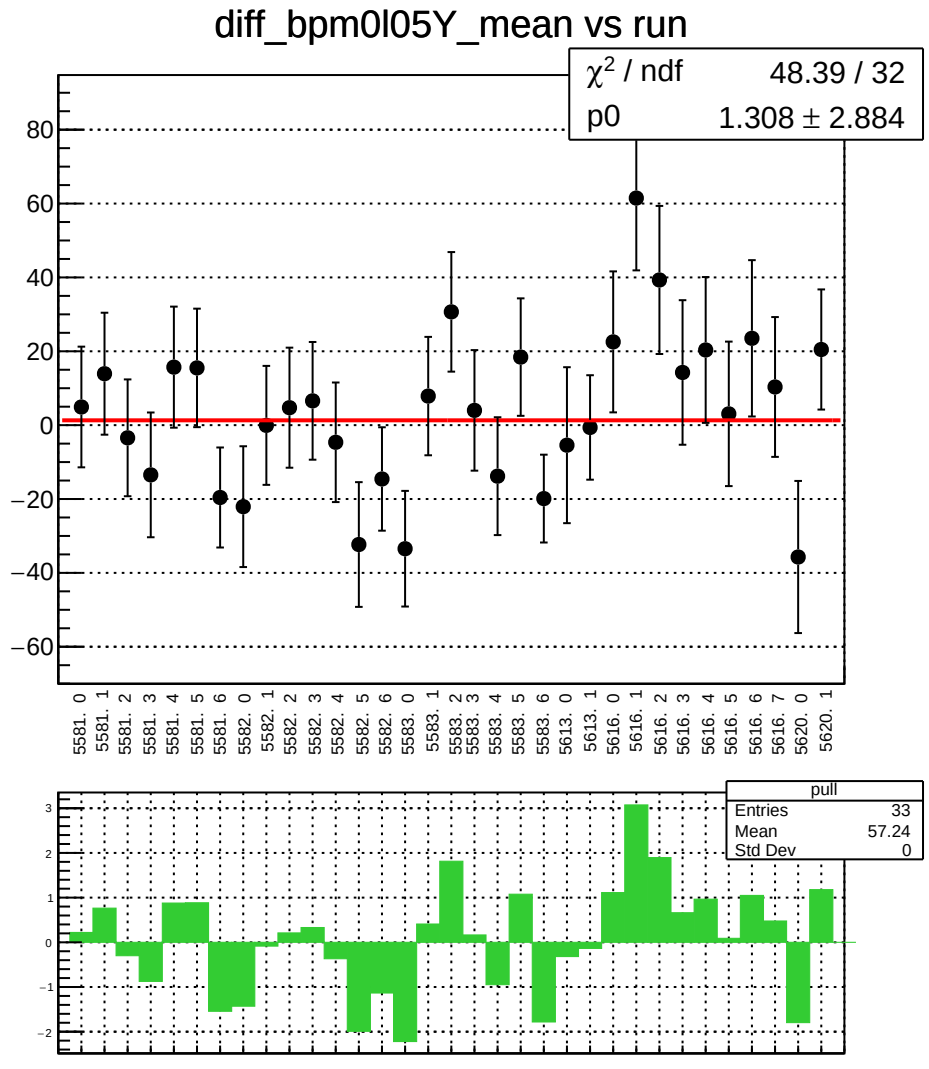

pull1D
Entries 33
Mean 0.01717
Std Dev 1.406
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

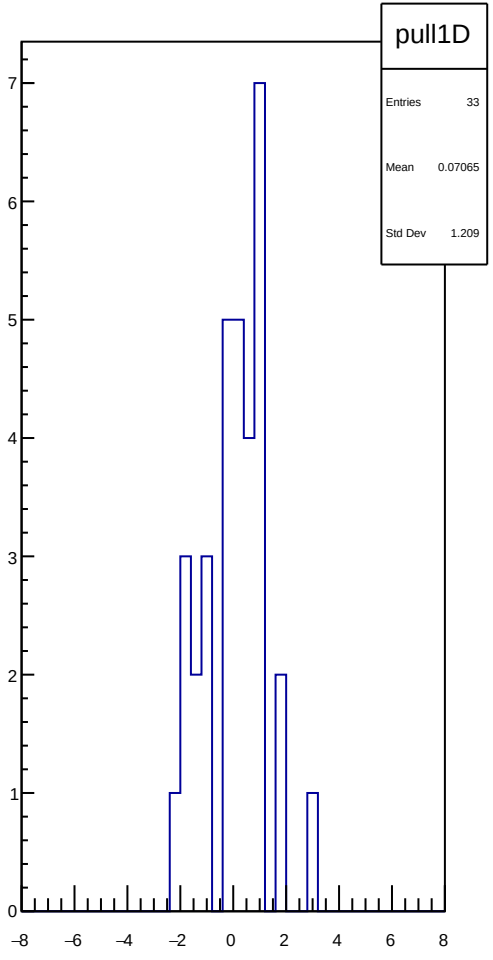

diff_bpm0l04Y_rms vs run
χ² / ndf 2226 / 32
p0 1434 ± 1.779
1650
1600
1550
1500
1450
1400
1350
1300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

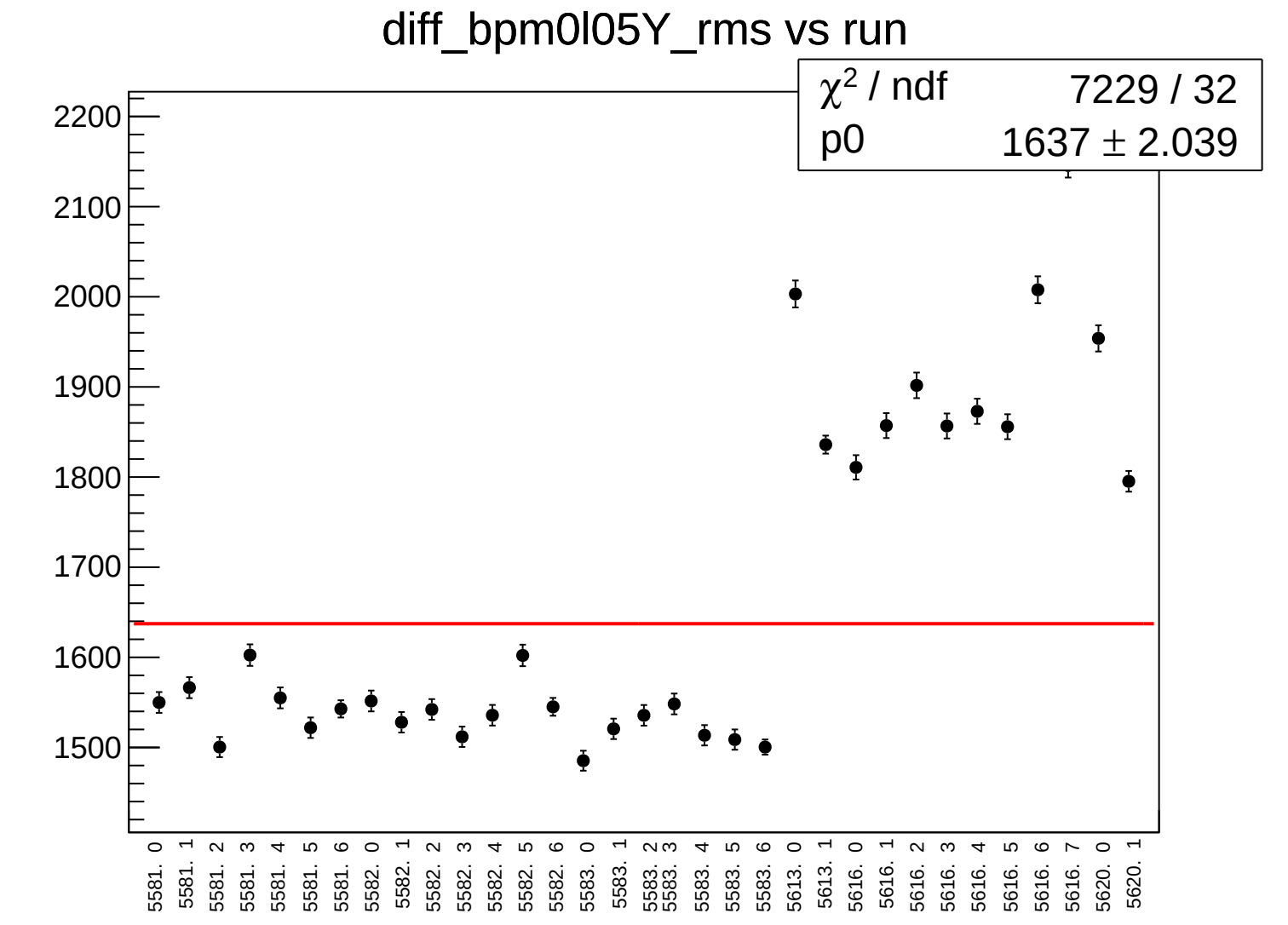

diff_bpm0l05X_mean vs run
χ² / ndf 35.3 / 32
p0 −9.691 ± 8.814
150
100
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −337.6
Std Dev 0
2
1
0
−1
−2

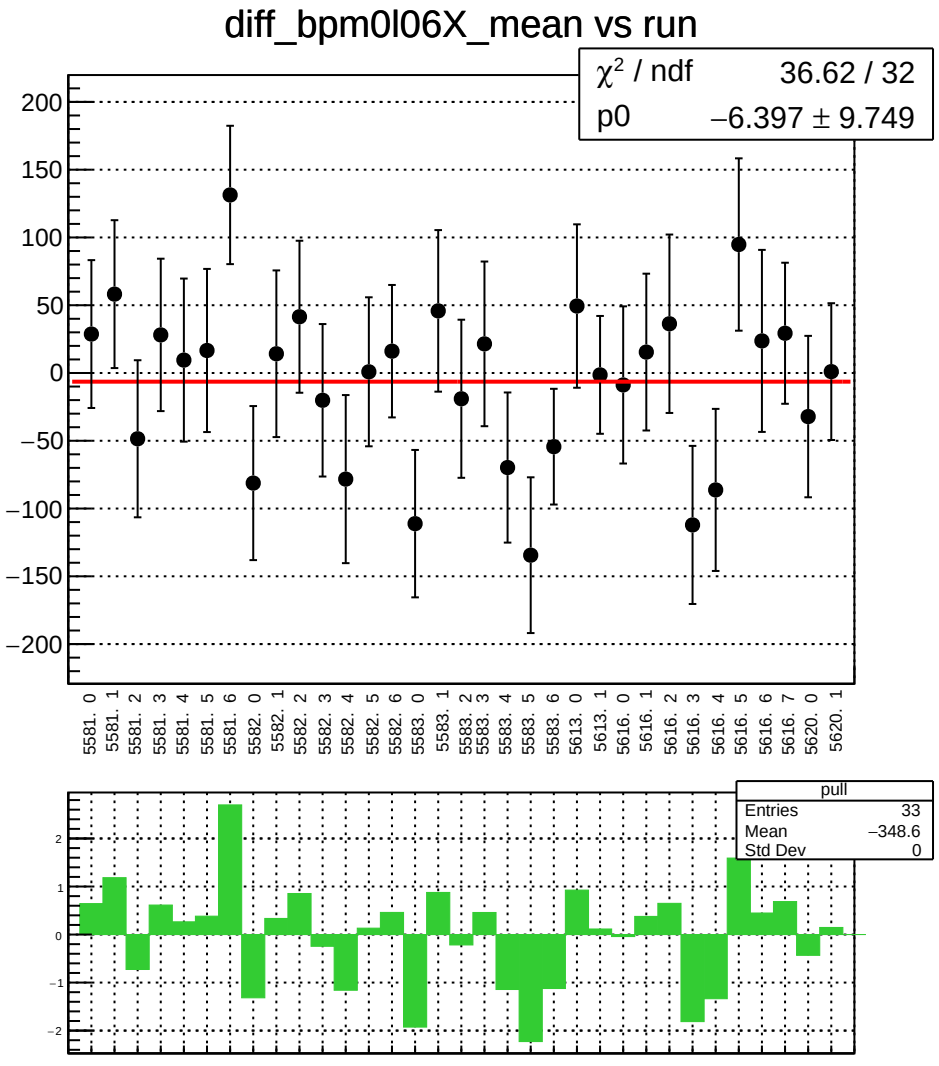

pull1D
Entries 33
Mean 0.006675
Std Dev 1.034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

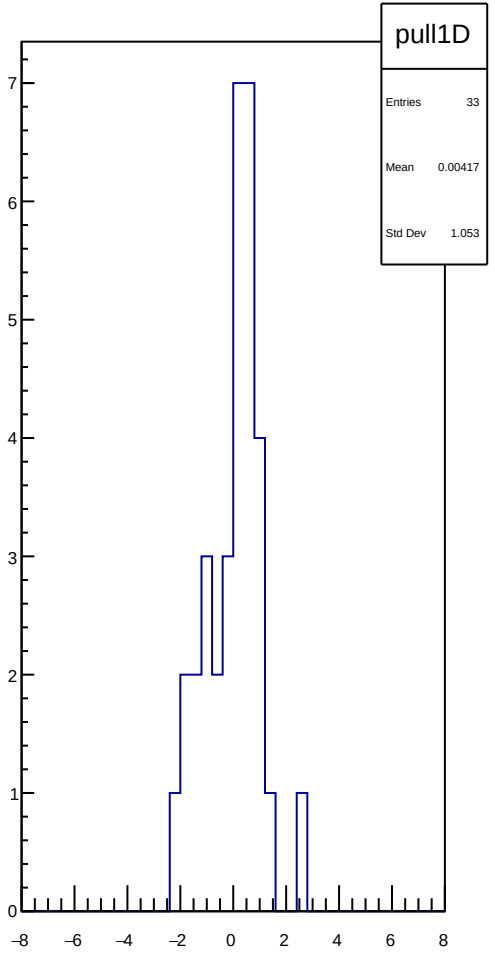

diff_bpm0l05X_rms vs run
χ² / ndf 7248 / 32
p0 5004 ± 6.232
6500
6000
5500
5000
4500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

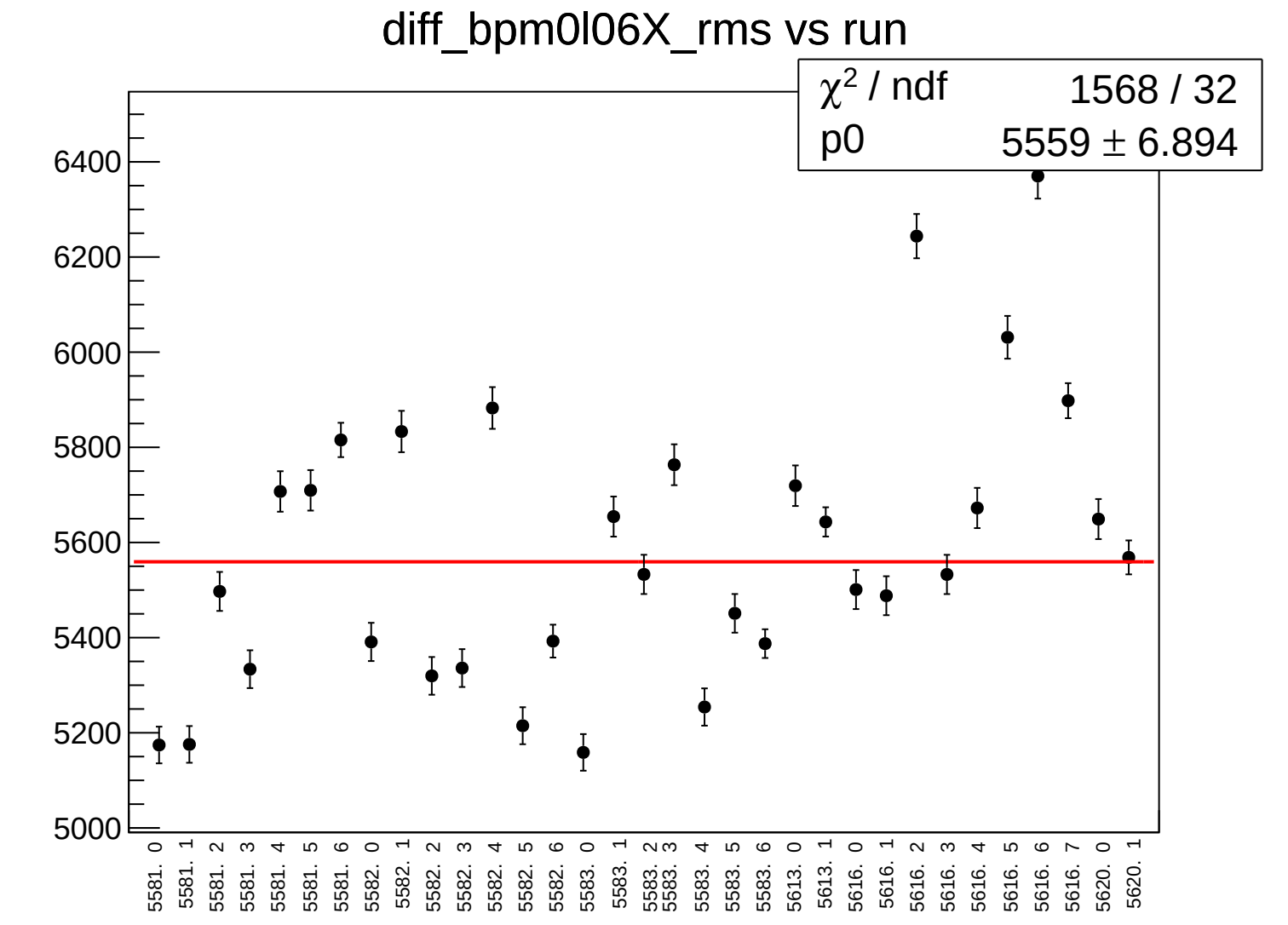

diff_bpm0l05Y_mean vs run
χ² / ndf 48.39 / 32
p0 1.308 ± 2.884
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 57.24
Std Dev 0
3
2
1
0
−1
−2

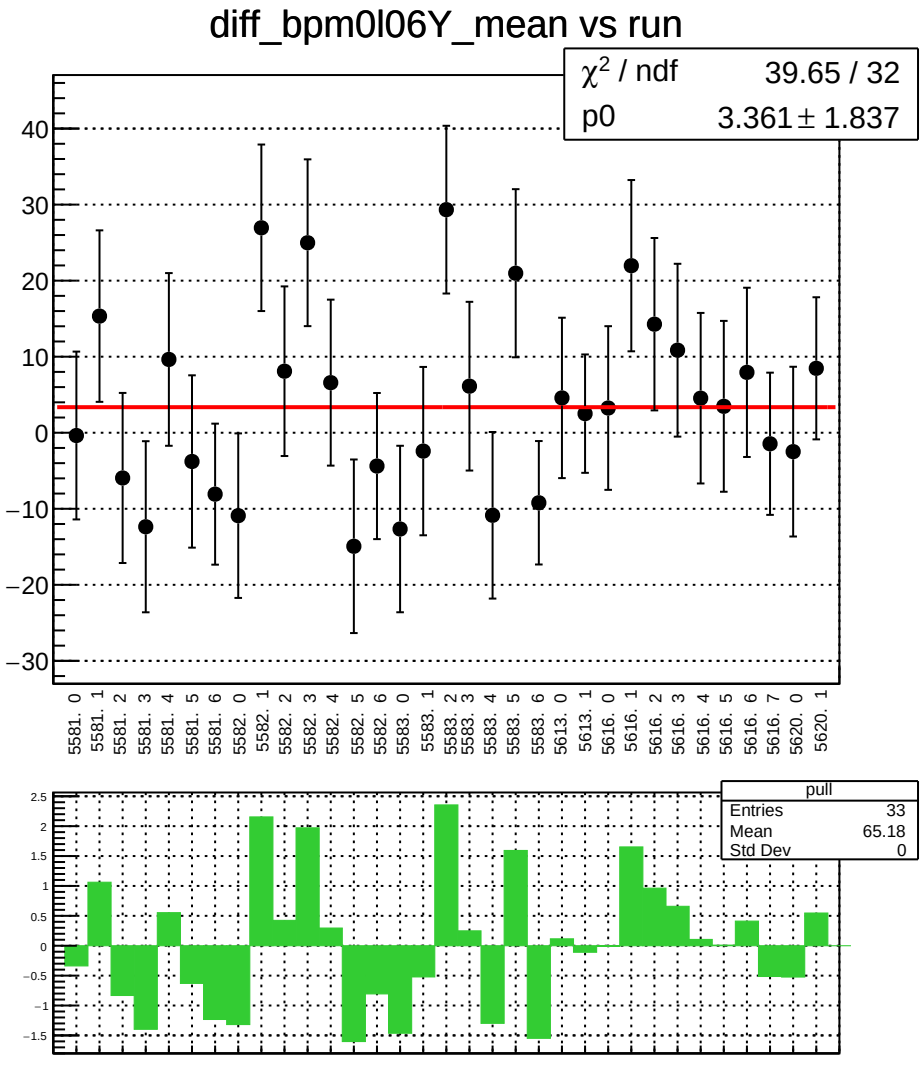

pull1D
Entries 33
Mean 0.07065
Std Dev 1.209
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

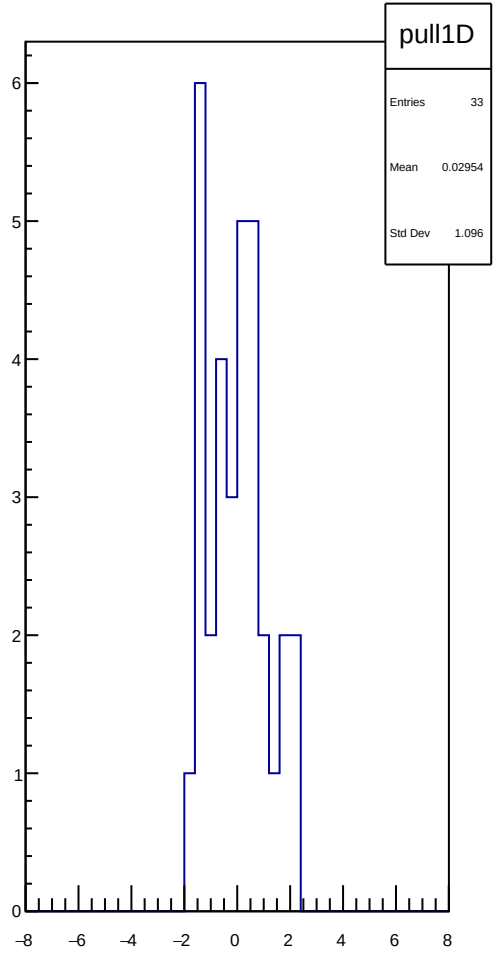

diff_bpm0l05Y_rms vs run
χ² / ndf 7229 / 32
p0 1637 ± 2.039
2200
2100
2000
1900
1800
1700
1600
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

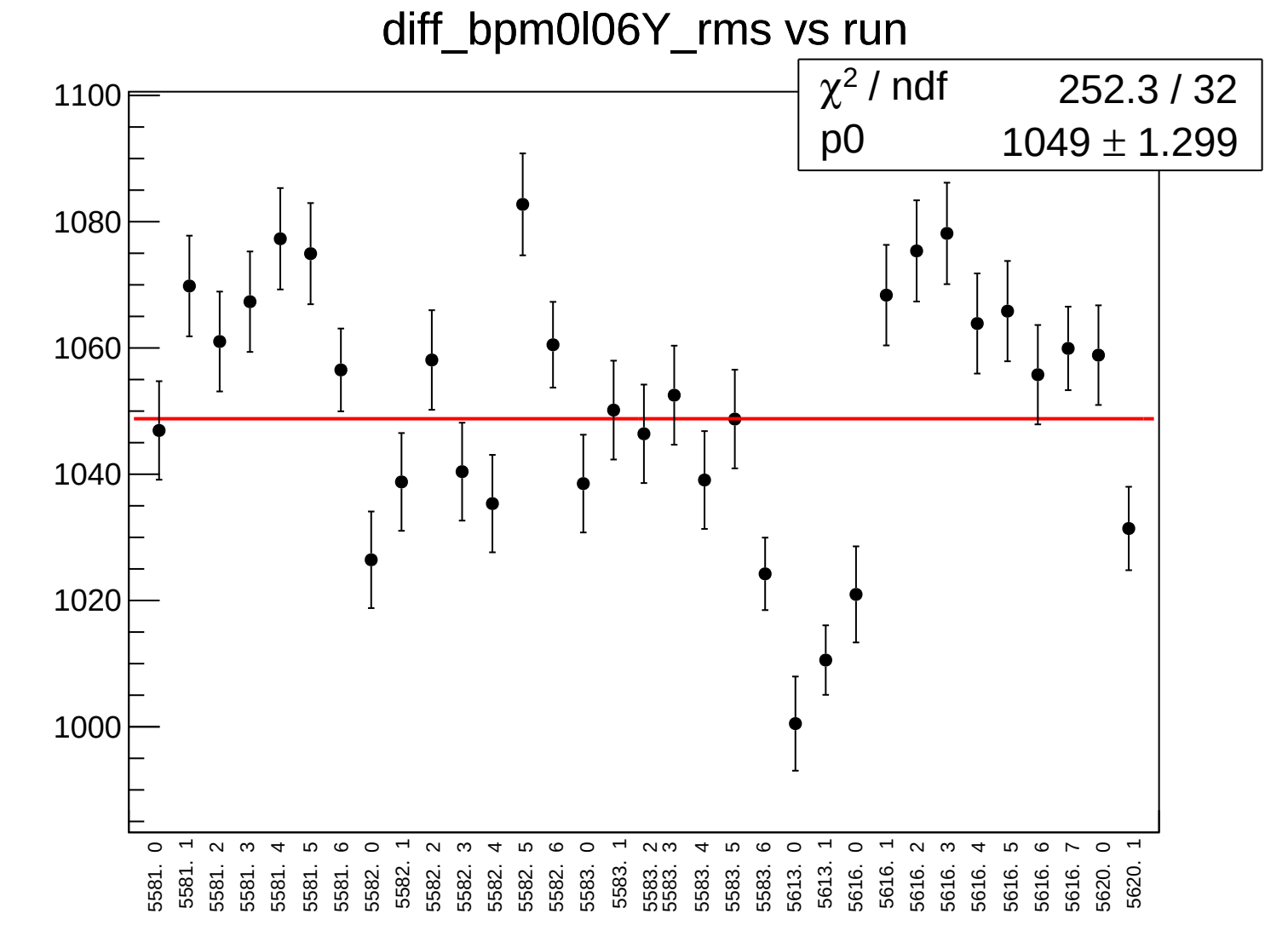

diff_bpm0l06X_mean vs run
χ² / ndf 36.62 / 32
p0 −6.397 ± 9.749
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −348.6
Std Dev 0
2
1
0
−1
−2

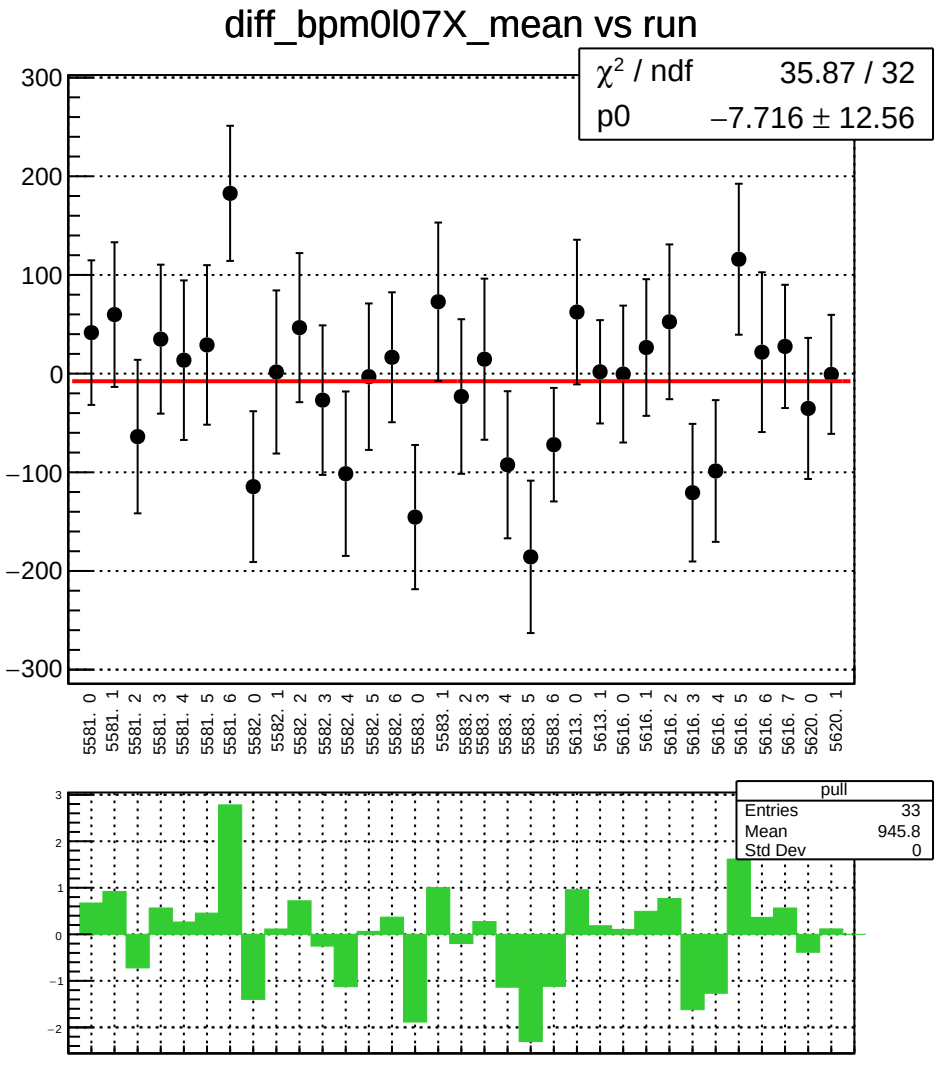

pull1D
Entries 33
Mean 0.00417
Std Dev 1.053
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

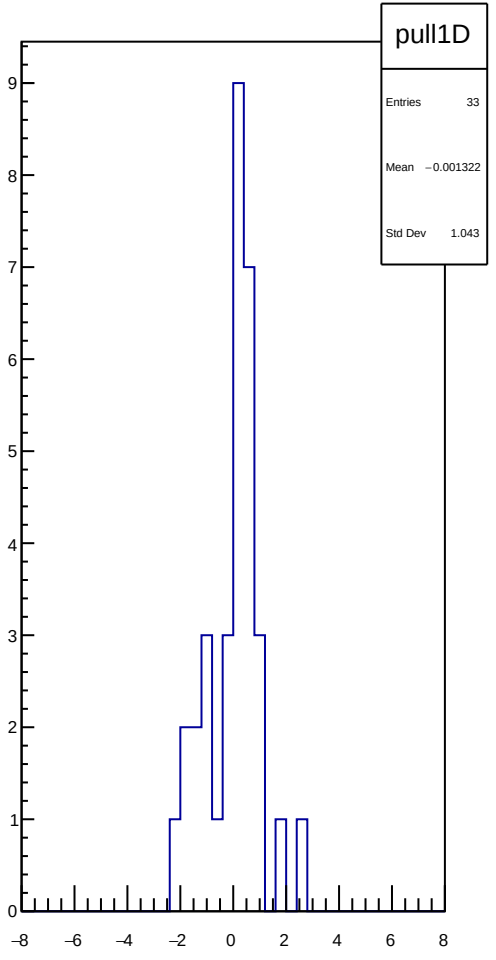

diff_bpm0l06X_rms vs run
χ² / ndf 1568 / 32
p0 5559 ± 6.894
6400
6200
6000
5800
5600
5400
5200
5000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

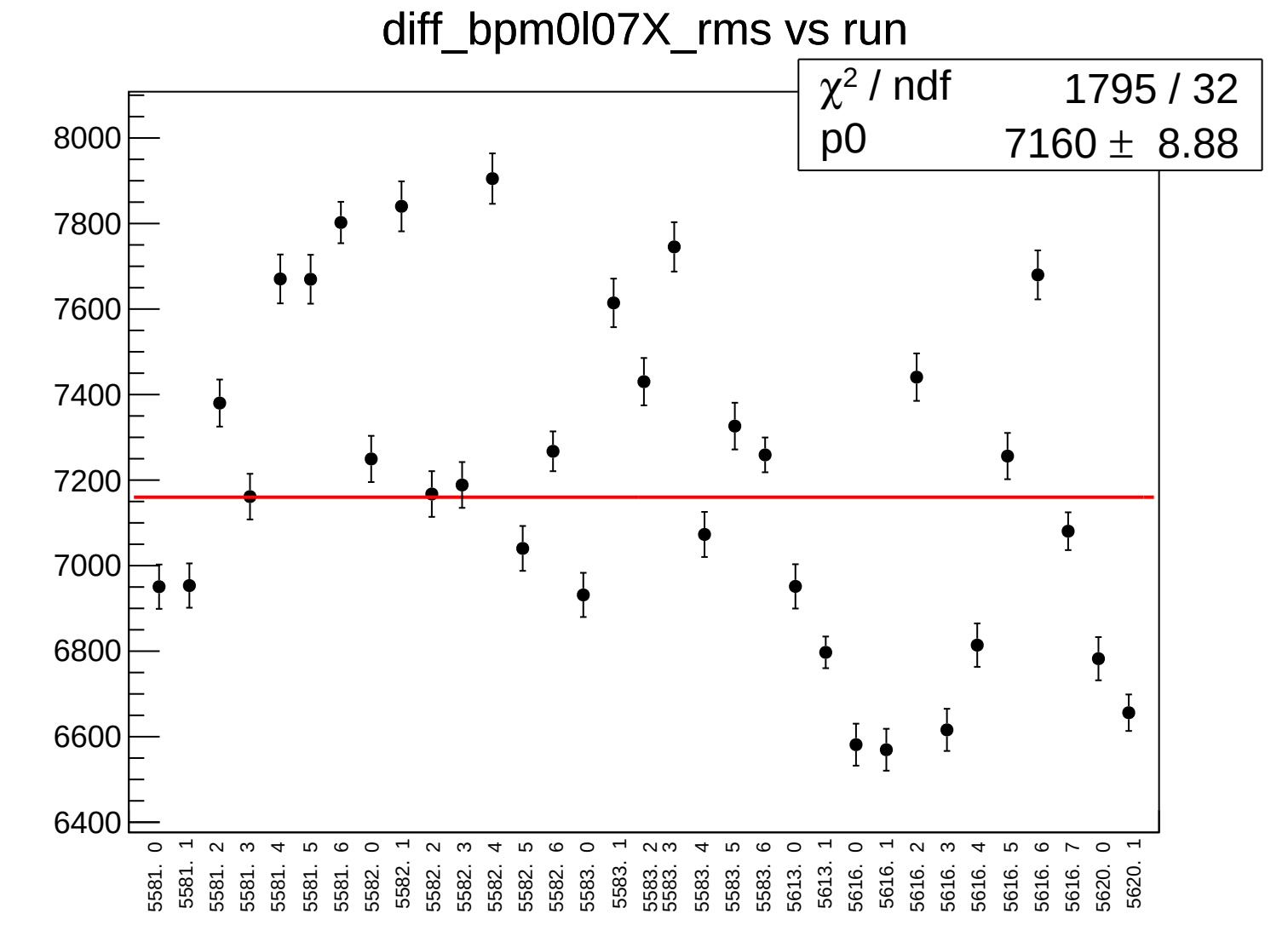

diff_bpm0l06Y_mean vs run
χ² / ndf 39.65 / 32
p0 3.361 ± 1.837
40
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 65.18
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

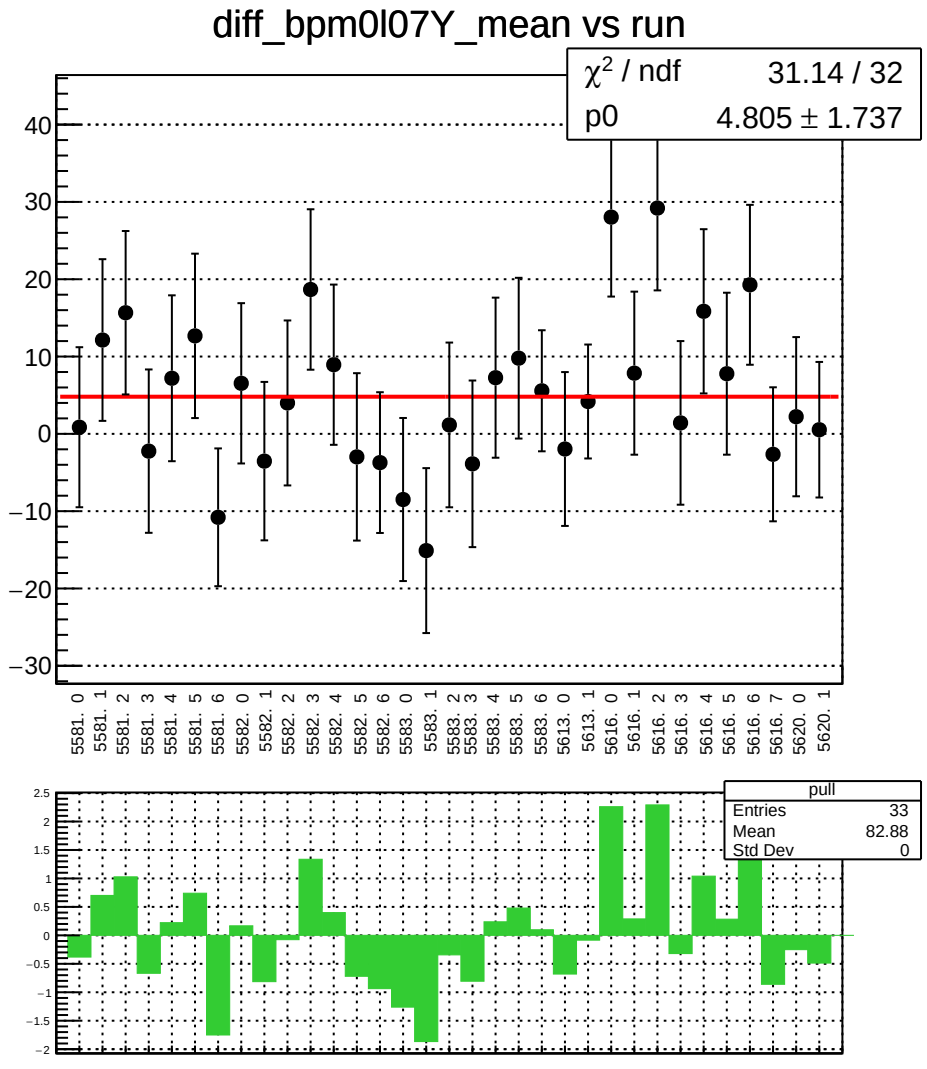

pull1D
Entries 33
Mean 0.02954
Std Dev 1.096
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

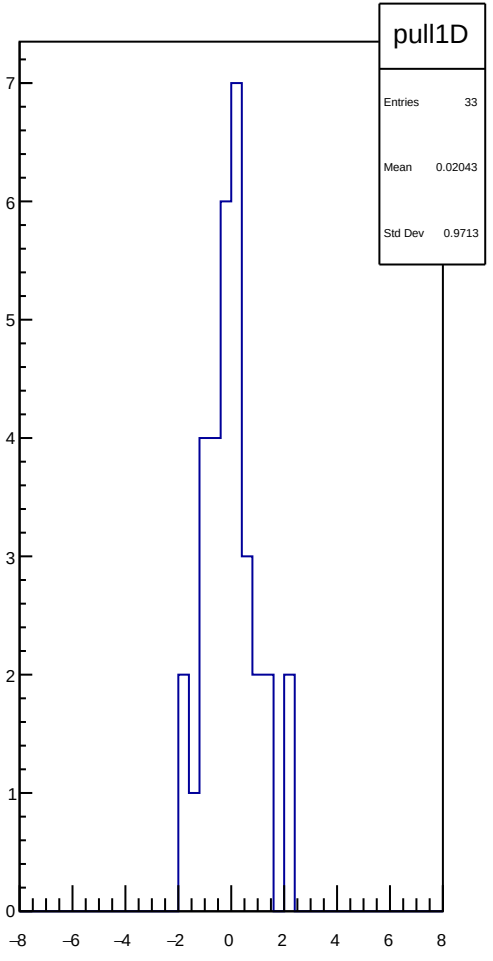

diff_bpm0l06Y_rms vs run
χ² / ndf 252.3 / 32
p0 1049 ± 1.299
1100
1080
1060
1040
1020
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

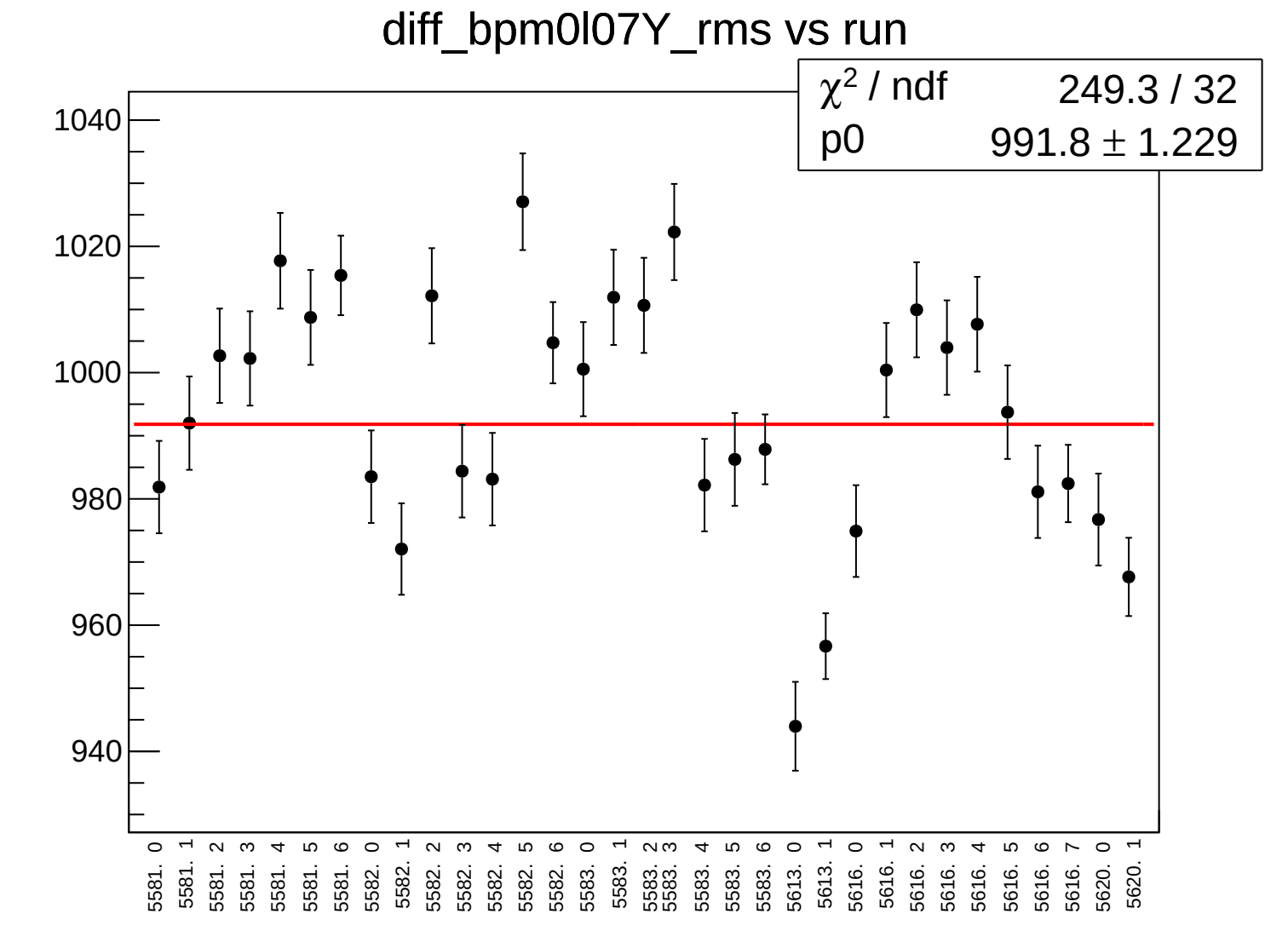

diff_bpm0l07X_mean vs run
χ² / ndf 35.87 / 32
p0 −7.716 ± 12.56
300
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 945.8
Std Dev 0
3
2
1
0
−1
−2

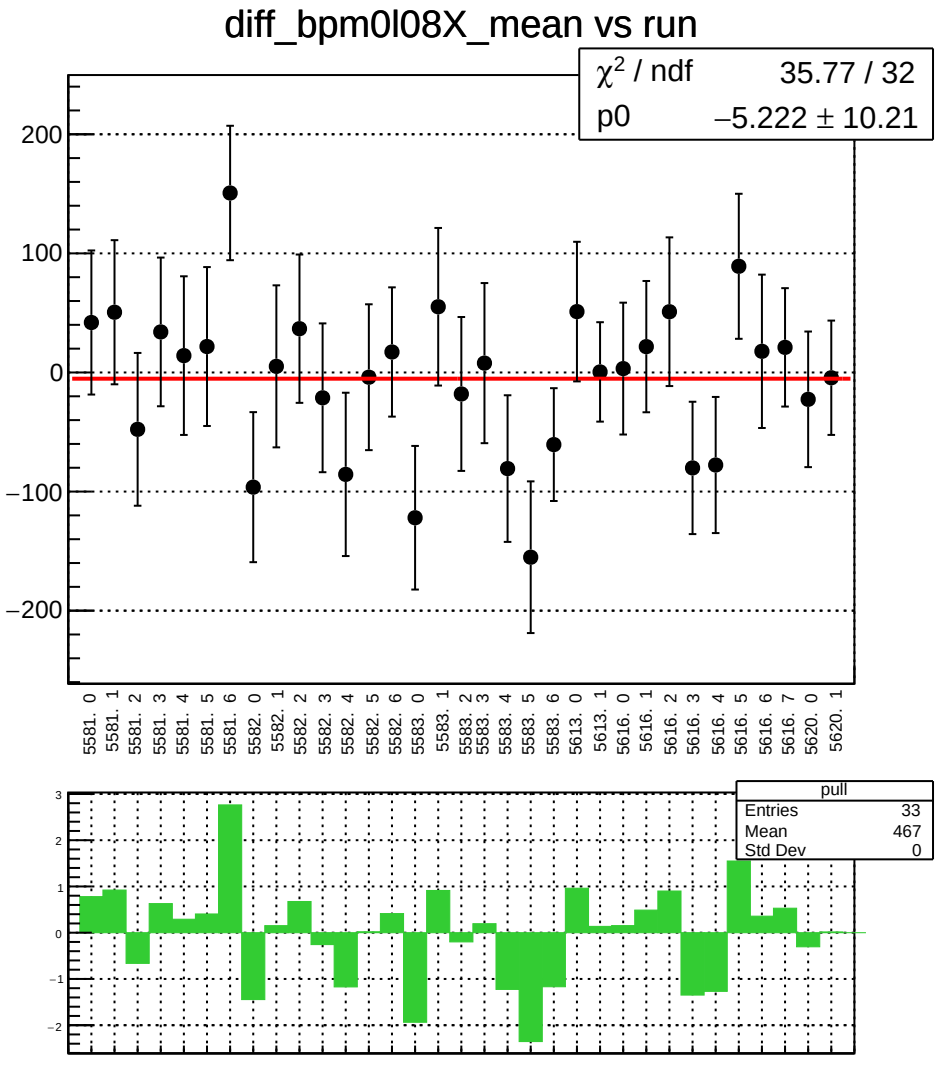

pull1D
Entries 33
Mean −0.001322
Std Dev 1.043
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

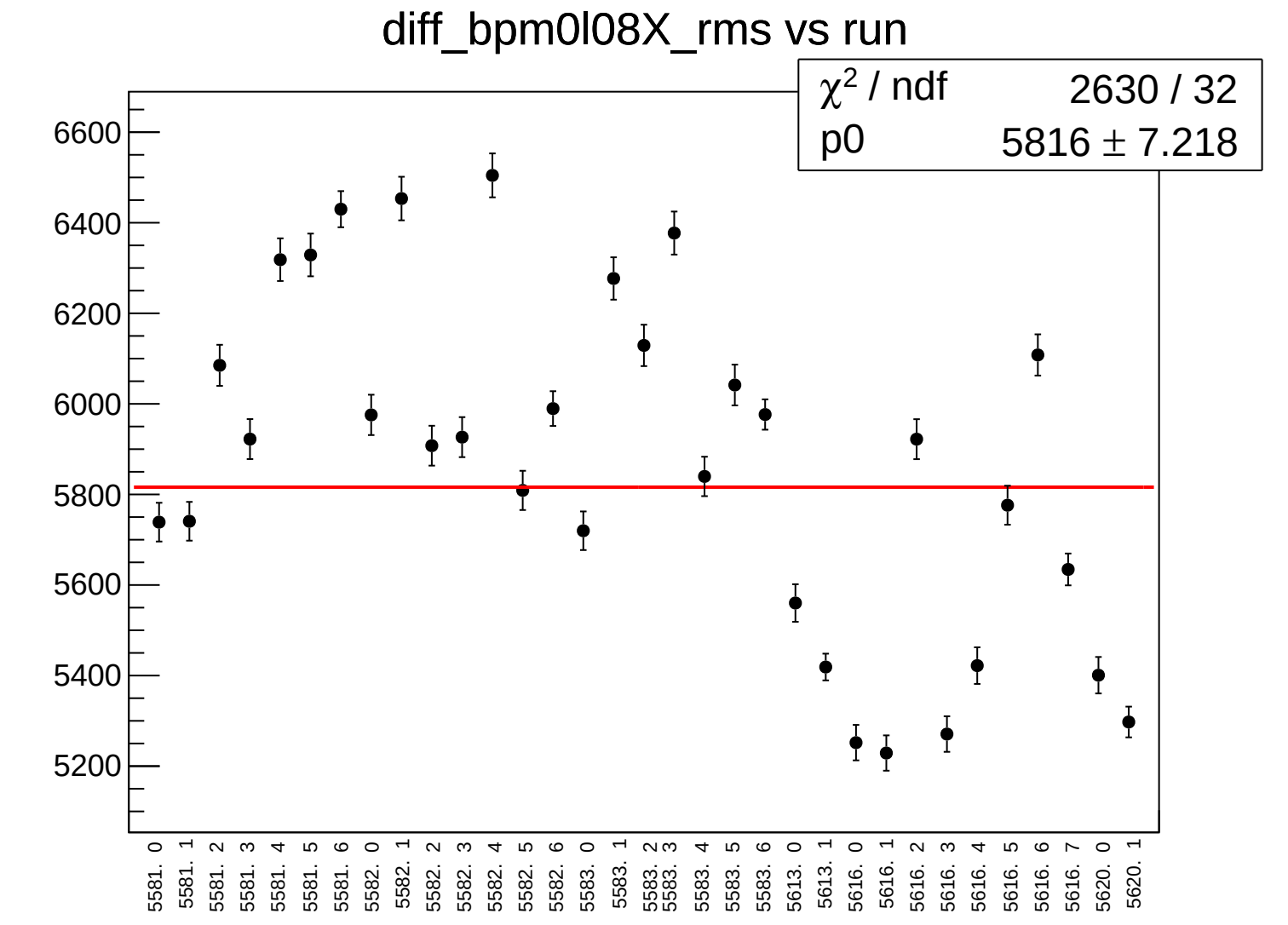

diff_bpm0l07X_rms vs run
χ² / ndf 1795 / 32
p0 7160 ± 8.88
8000
7800
7600
7400
7200
7000
6800
6600
6400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

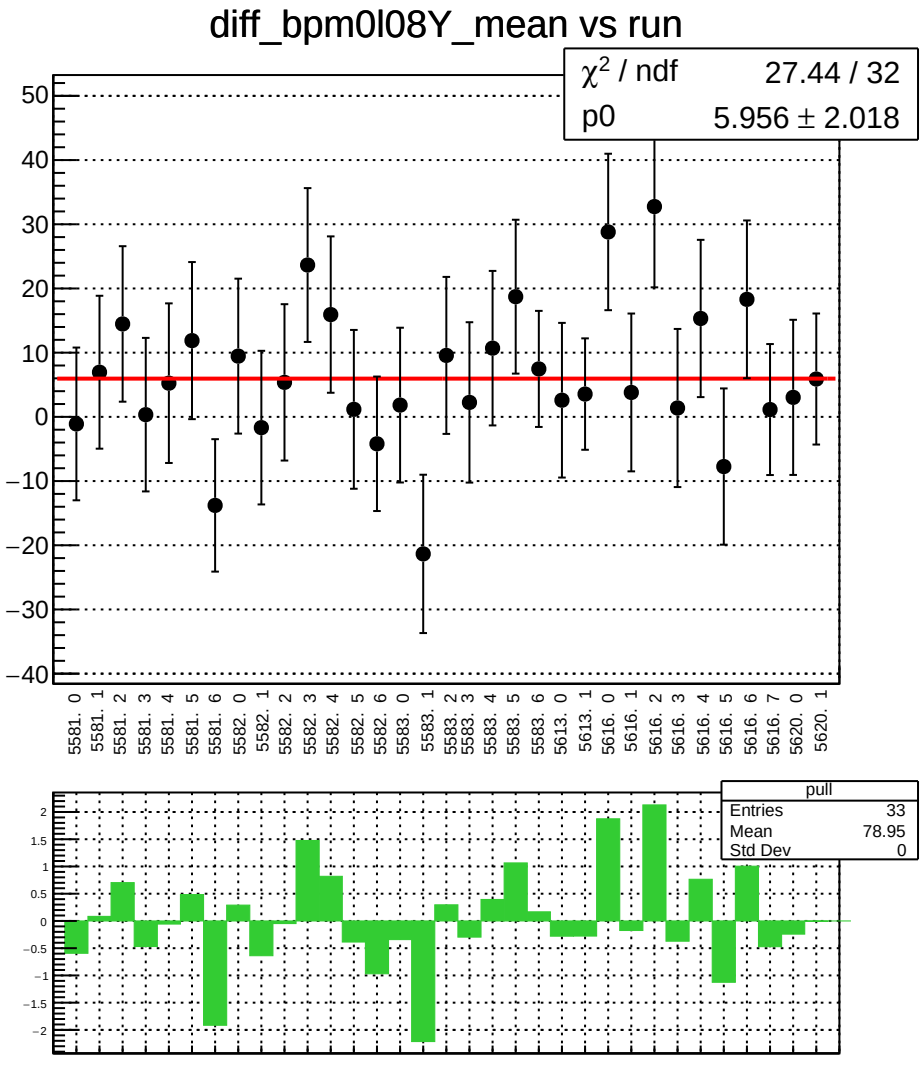

diff_bpm0l07Y_mean vs run
χ² / ndf 31.14 / 32
p0 4.805 ± 1.737
pull
Entries 33
Mean 82.88
Std Dev 0

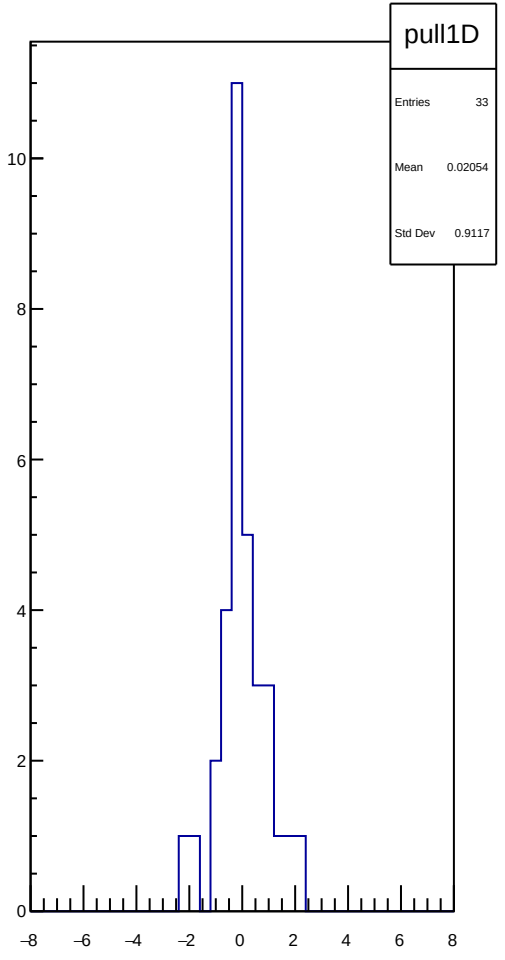

pull1D
Entries 33
Mean 0.02043
Std Dev 0.9713

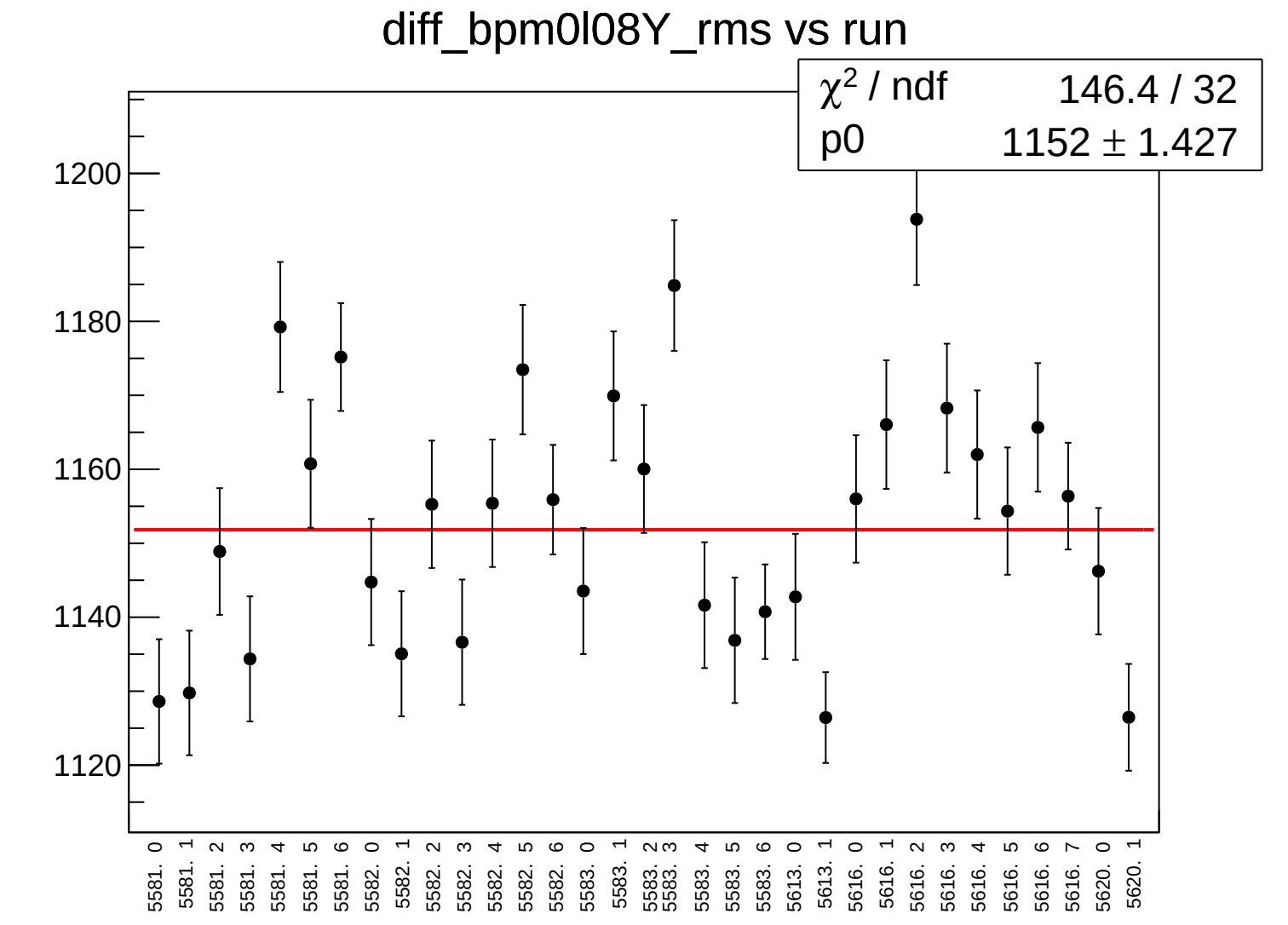

diff_bpm0l07Y_rms vs run
χ² / ndf 249.3 / 32
p0 991.8 ± 1.229
1040
1020
1000
980
960
940
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

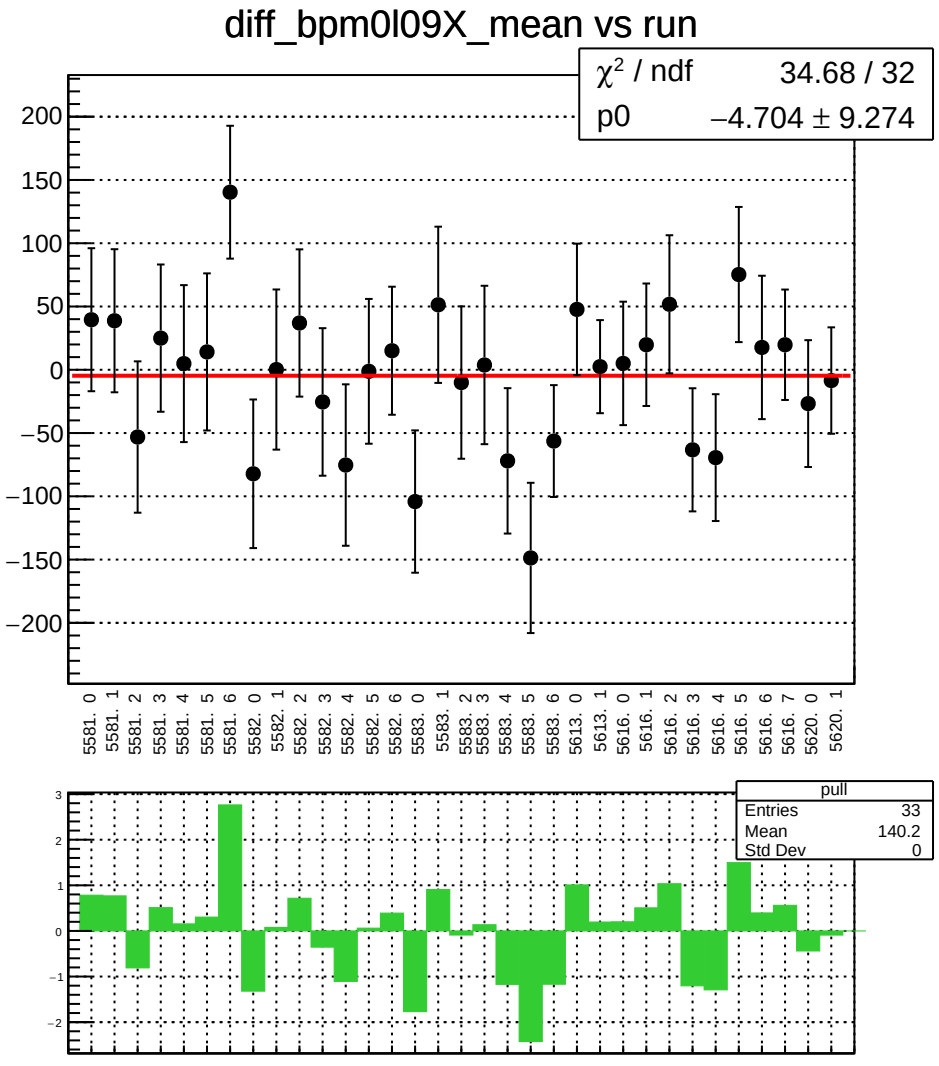

diff_bpm0l08X_mean vs run
χ² / ndf 35.77 / 32
p0 −5.222 ± 10.21
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 467
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.00276
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

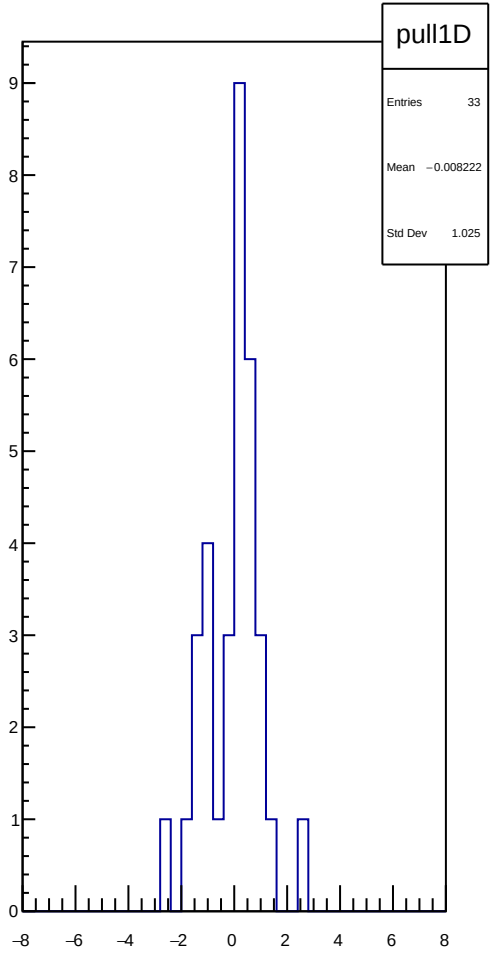

diff_bpm0l08X_rms vs run
χ² / ndf 2630 / 32
p0 5816 ± 7.218
6600
6400
6200
6000
5800
5600
5400
5200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

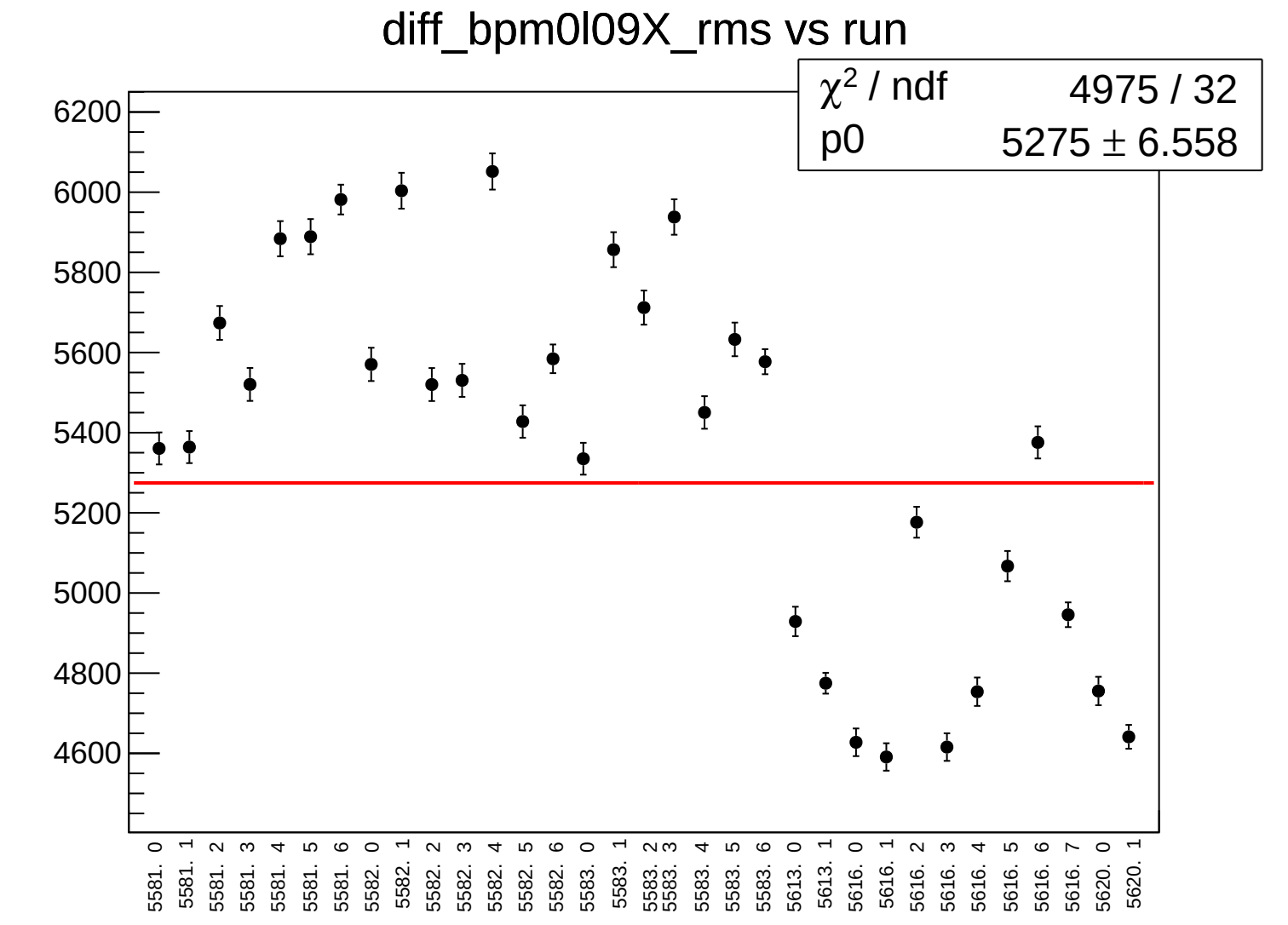

diff_bpm0l08Y_mean vs run
χ² / ndf 27.44 / 32
p0 5.956 ± 2.018
pull
Entries 33
Mean 78.95
Std Dev 0

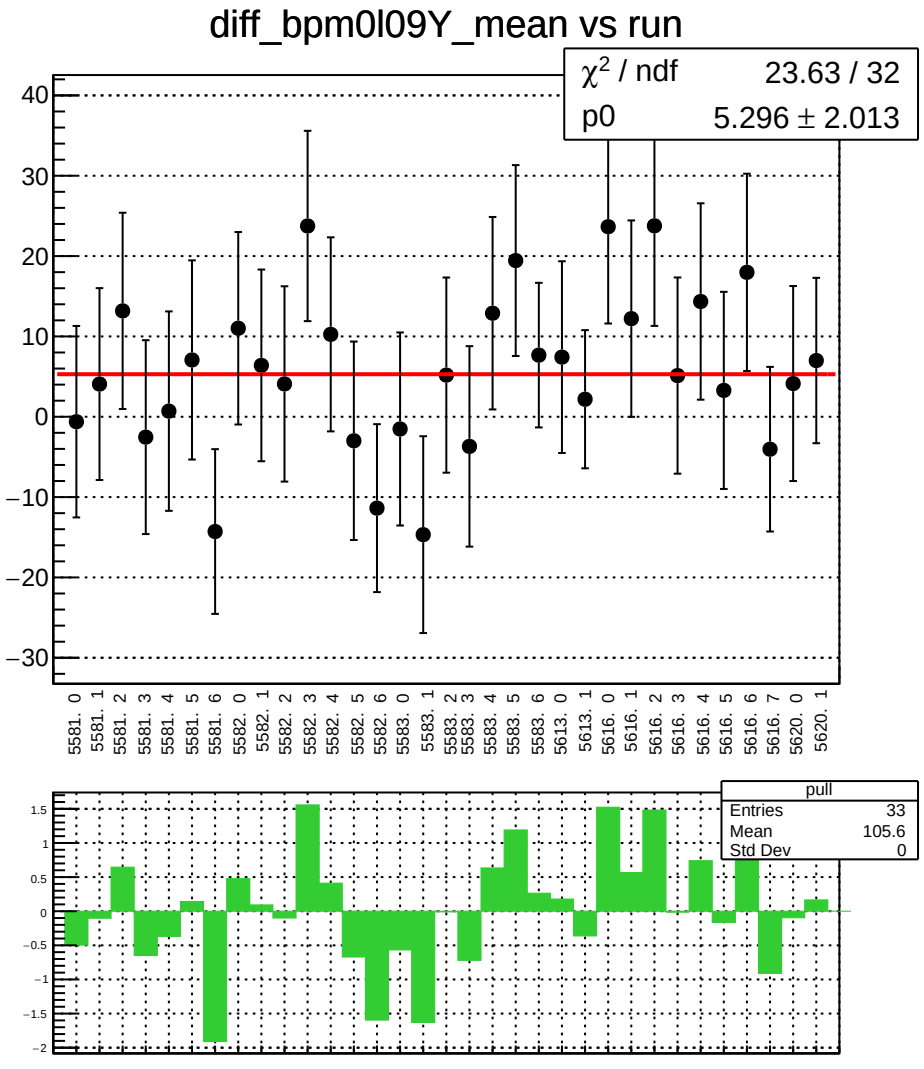

pull1D
Entries 33
Mean 0.02054
Std Dev 0.9117

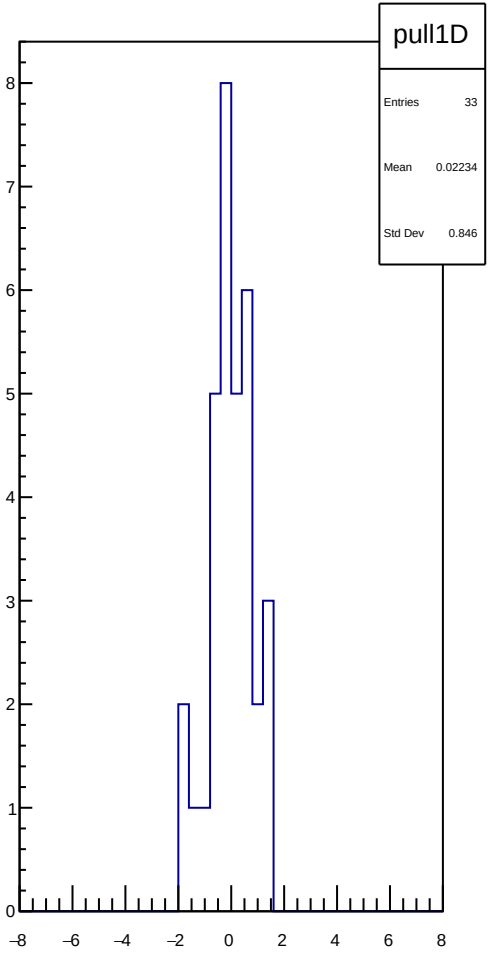

diff_bpm0l08Y_rms vs run
χ² / ndf 146.4 / 32
p0 1152 ± 1.427
1200
1180
1160
1140
1120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

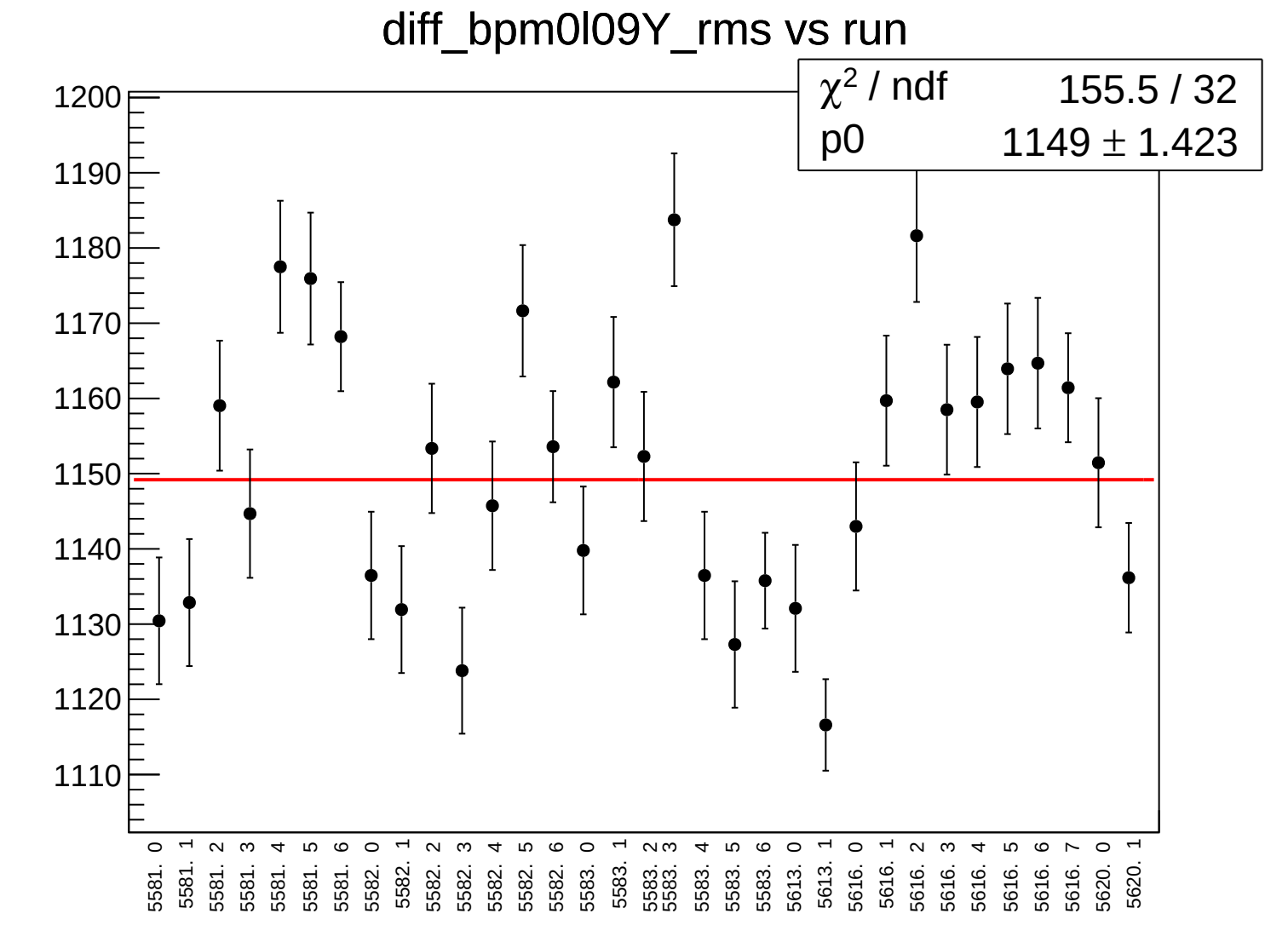

diff_bpm0l09X_mean vs run
χ² / ndf 34.68 / 32
p0 −4.704 ± 9.274
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 140.2
Std Dev 0
3
2
1
0
−1
−2

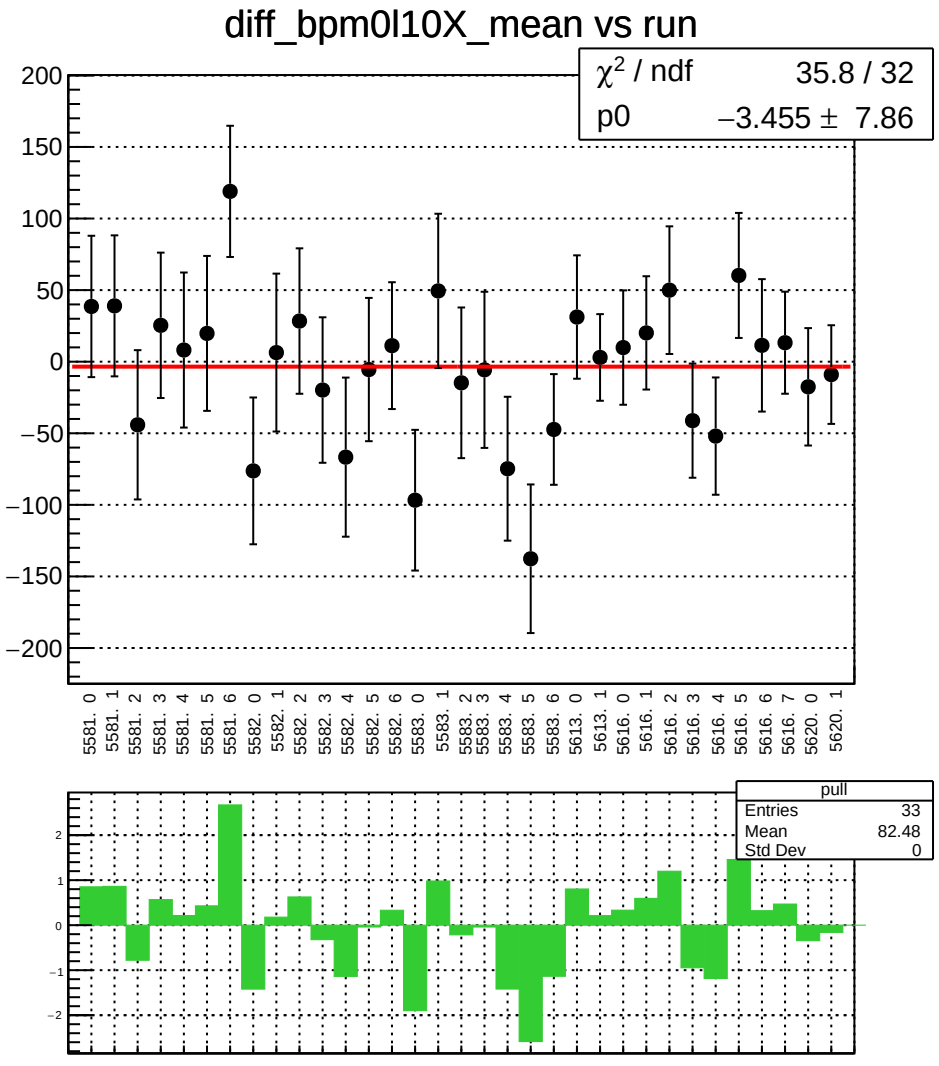

pull1D
Entries 33
Mean −0.008222
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

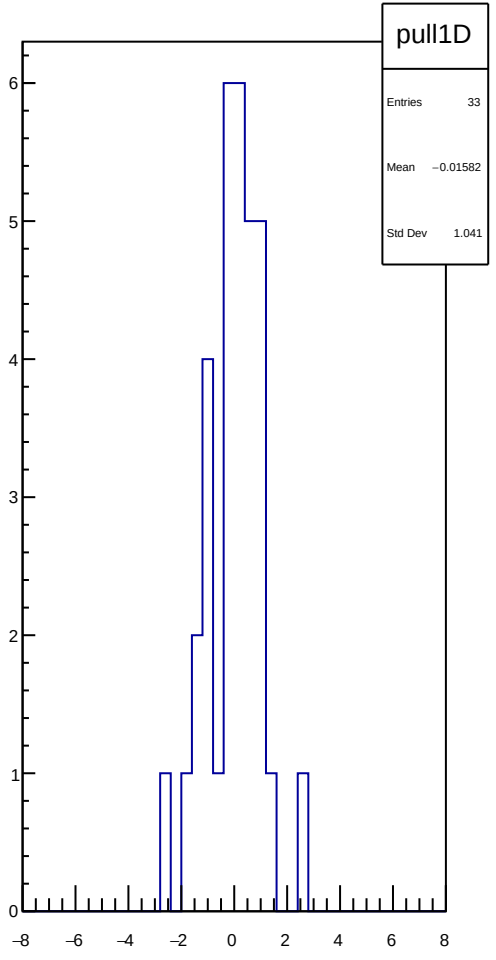

diff_bpm0l09X_rms vs run
χ² / ndf 4975 / 32
p0 5275 ± 6.558
6200
6000
5800
5600
5400
5200
5000
4800
4600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

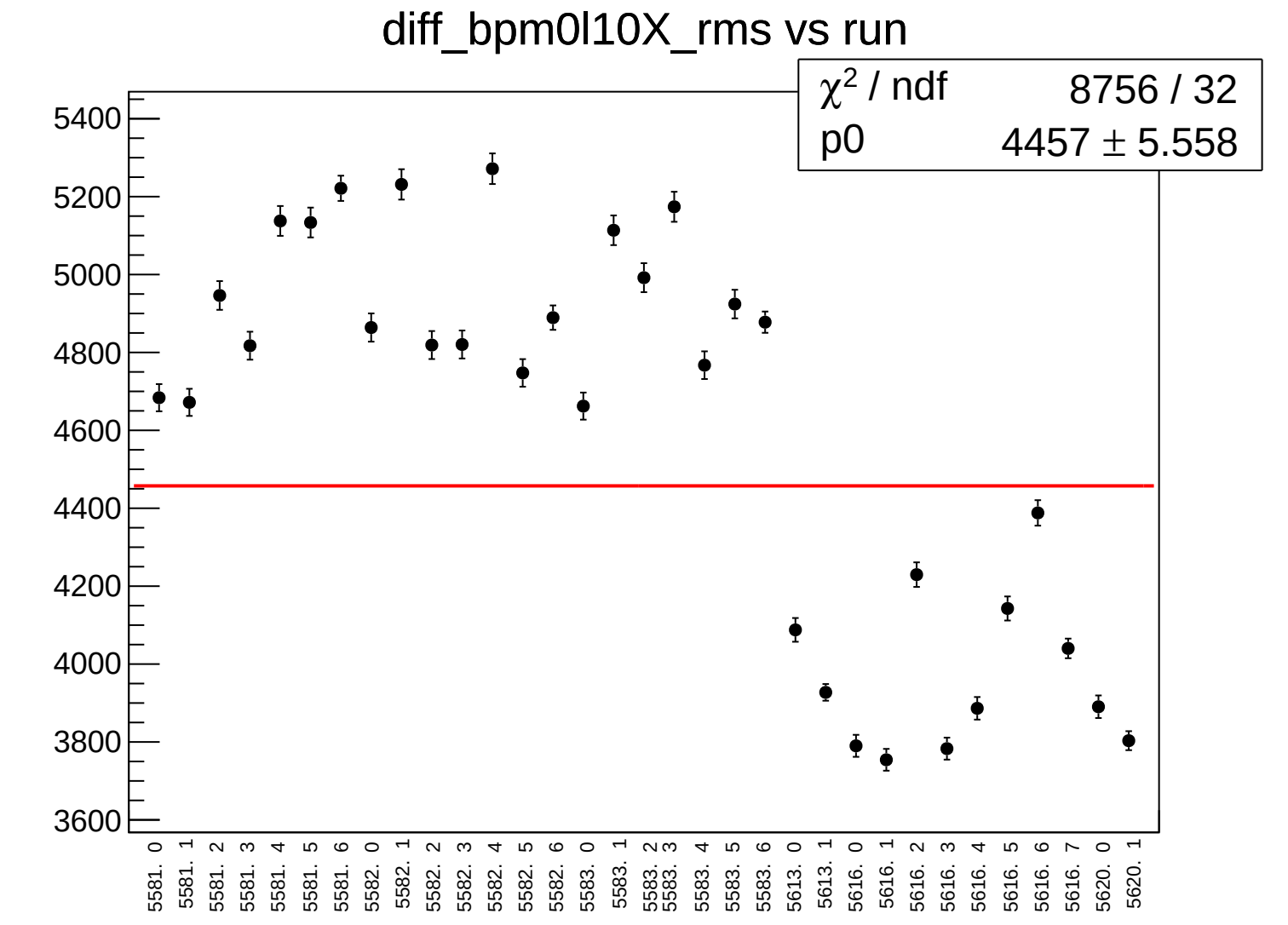

diff_bpm0l09Y_mean vs run
χ² / ndf 23.63 / 32
p0 5.296 ± 2.013
pull
Entries 33
Mean 105.6
Std Dev 0

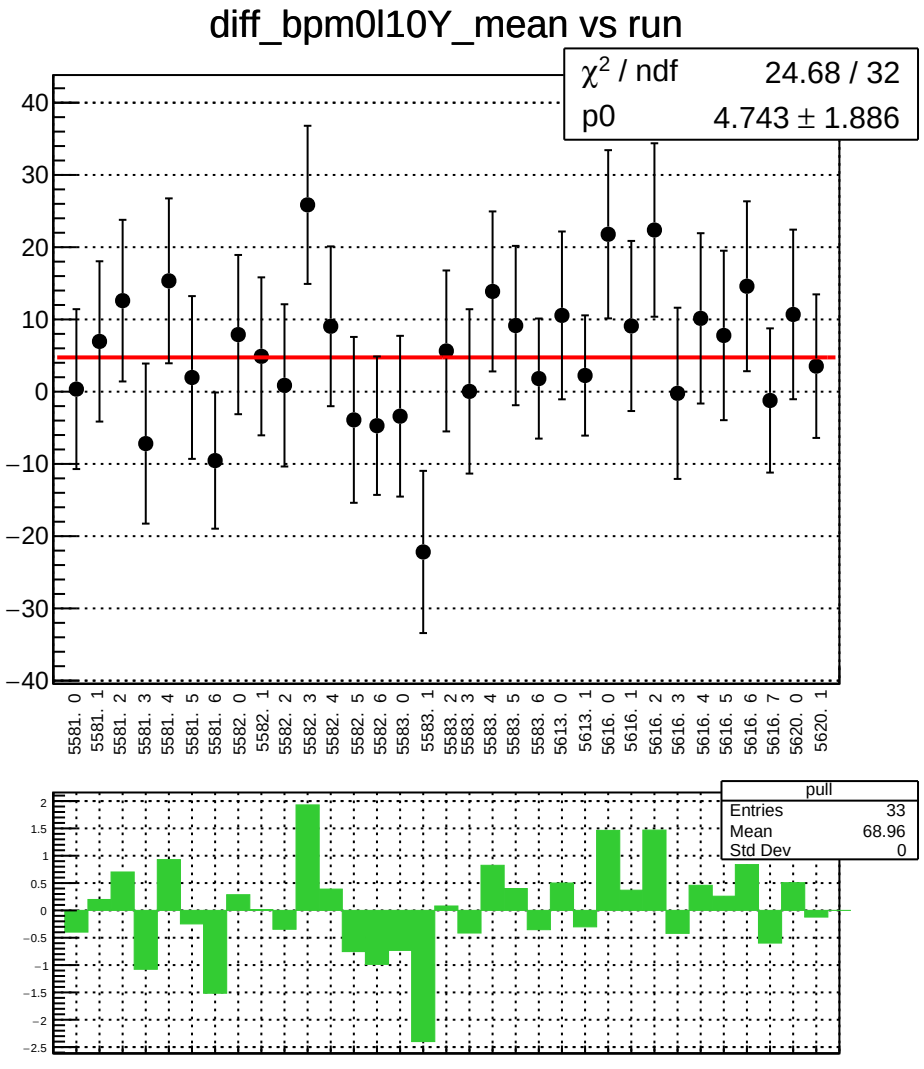

pull1D
Entries 33
Mean 0.02234
Std Dev 0.846

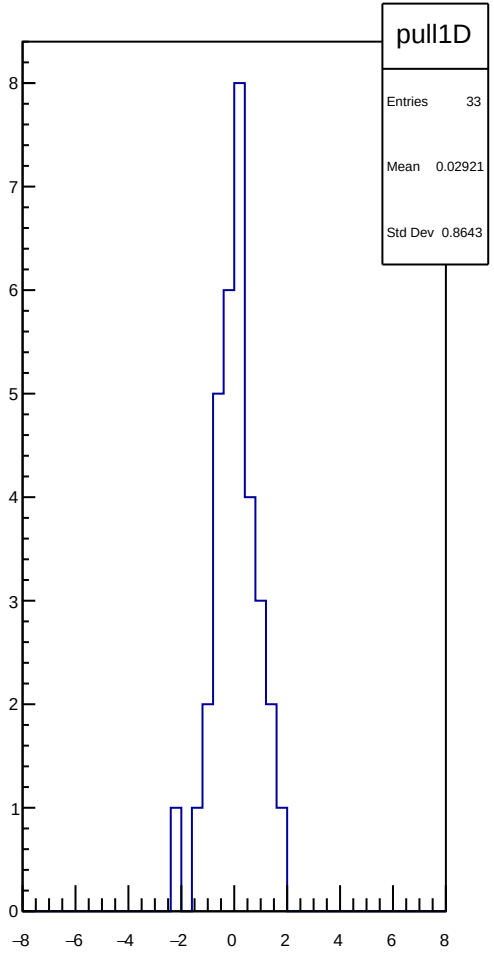

diff_bpm0l09Y_rms vs run
χ² / ndf 155.5 / 32
p0 1149 ± 1.423
1200
1190
1180
1170
1160
1150
1140
1130
1120
1110
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

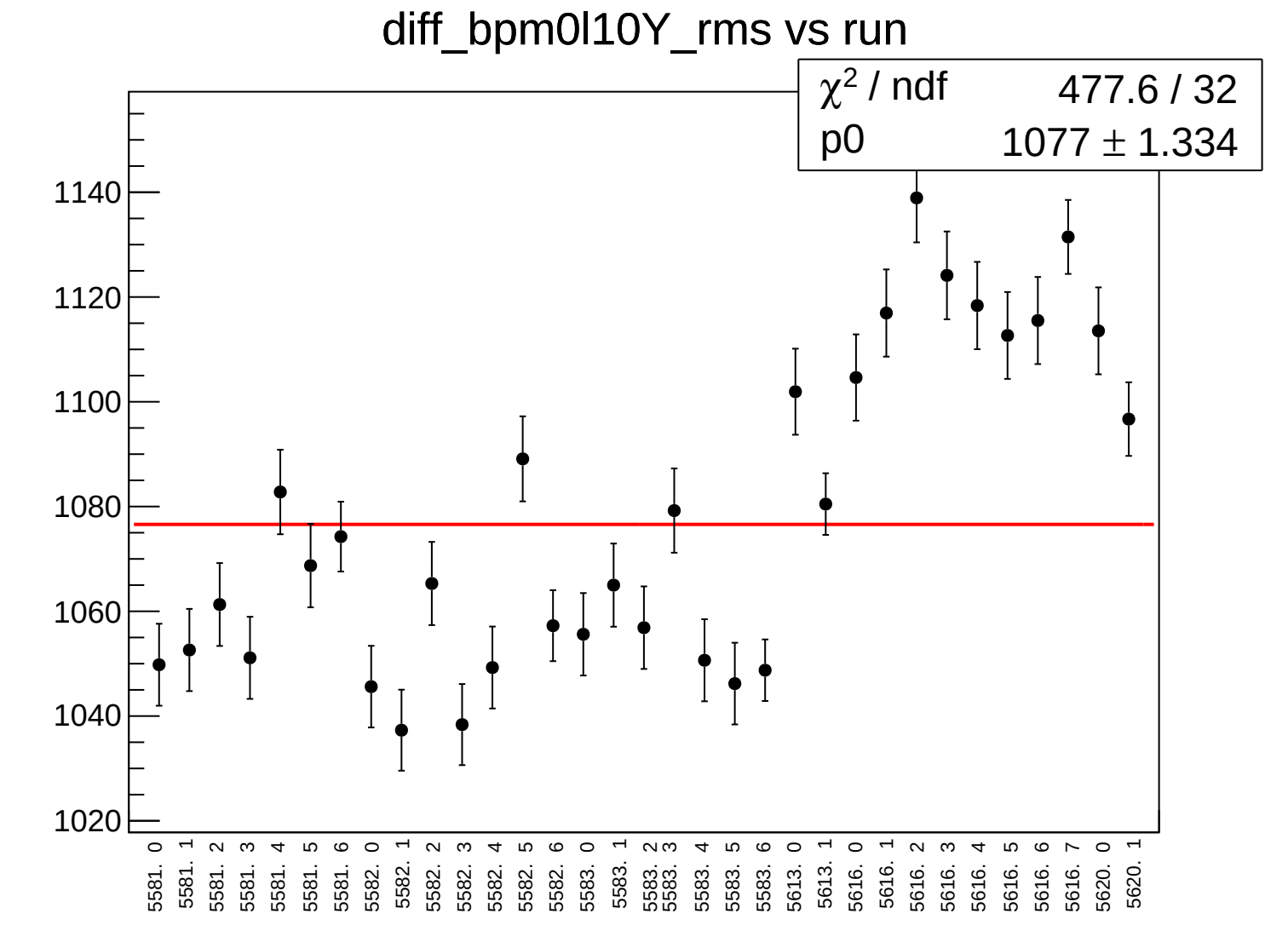

diff_bpm0l10X_mean vs run
χ² / ndf 35.8 / 32
p0 −3.455 ± 7.86
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 82.48
Std Dev 0
2
1
0
−1
−2

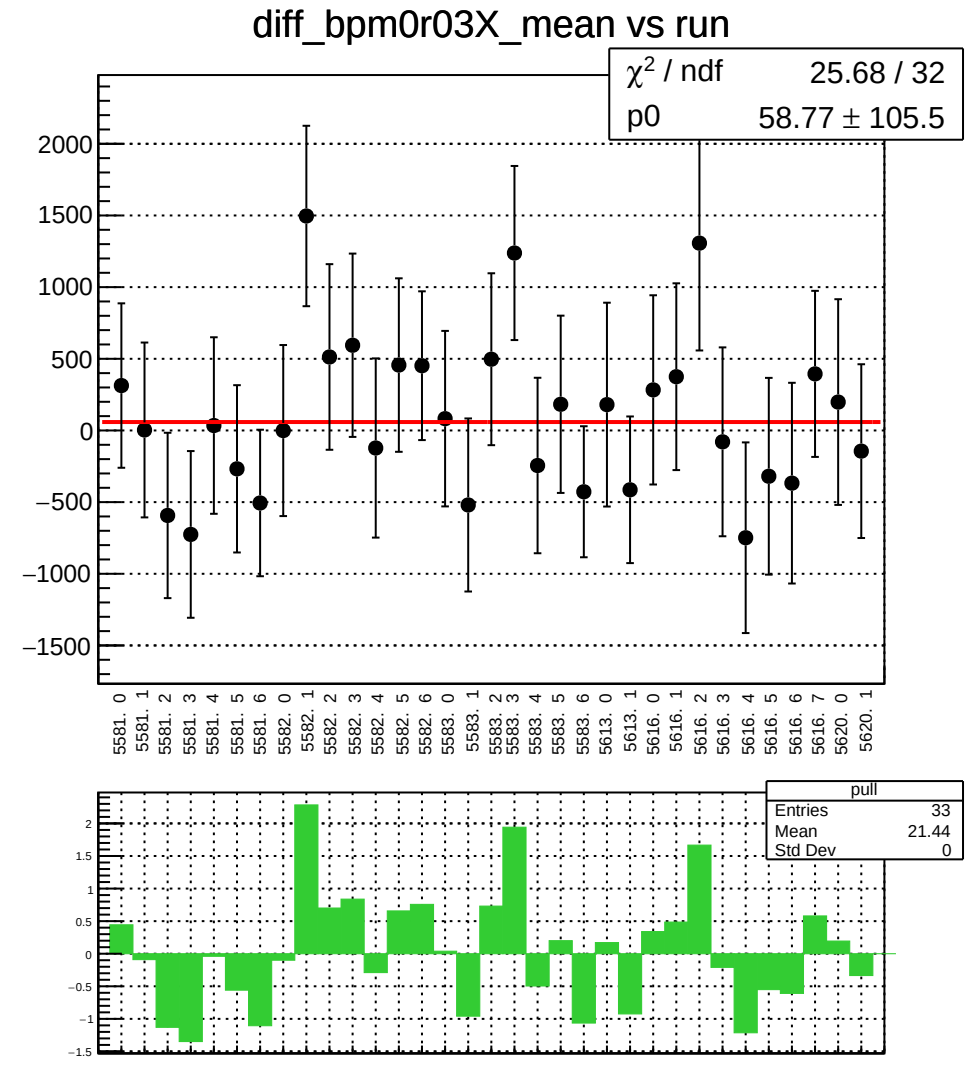

pull1D
Entries 33
Mean −0.01582
Std Dev 1.041
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

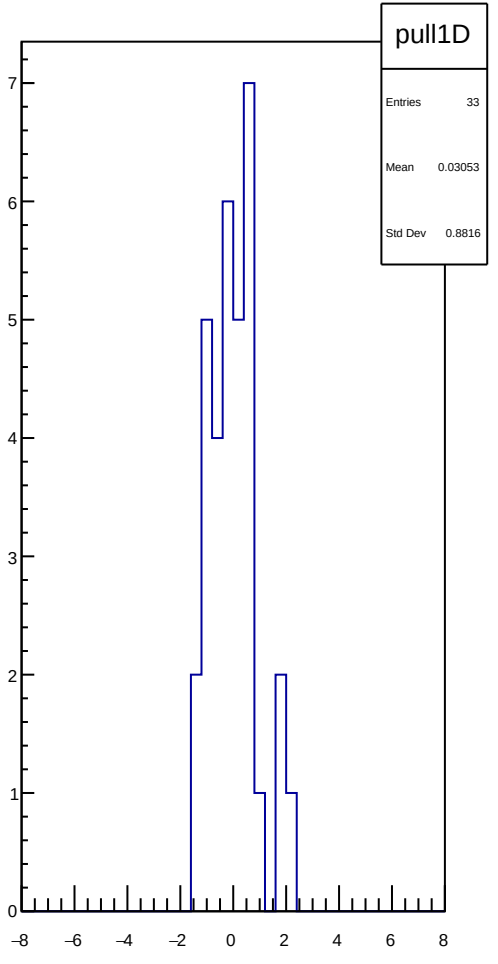

diff_bpm0l10X_rms vs run
χ² / ndf 8756 / 32
p0 4457 ± 5.558
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

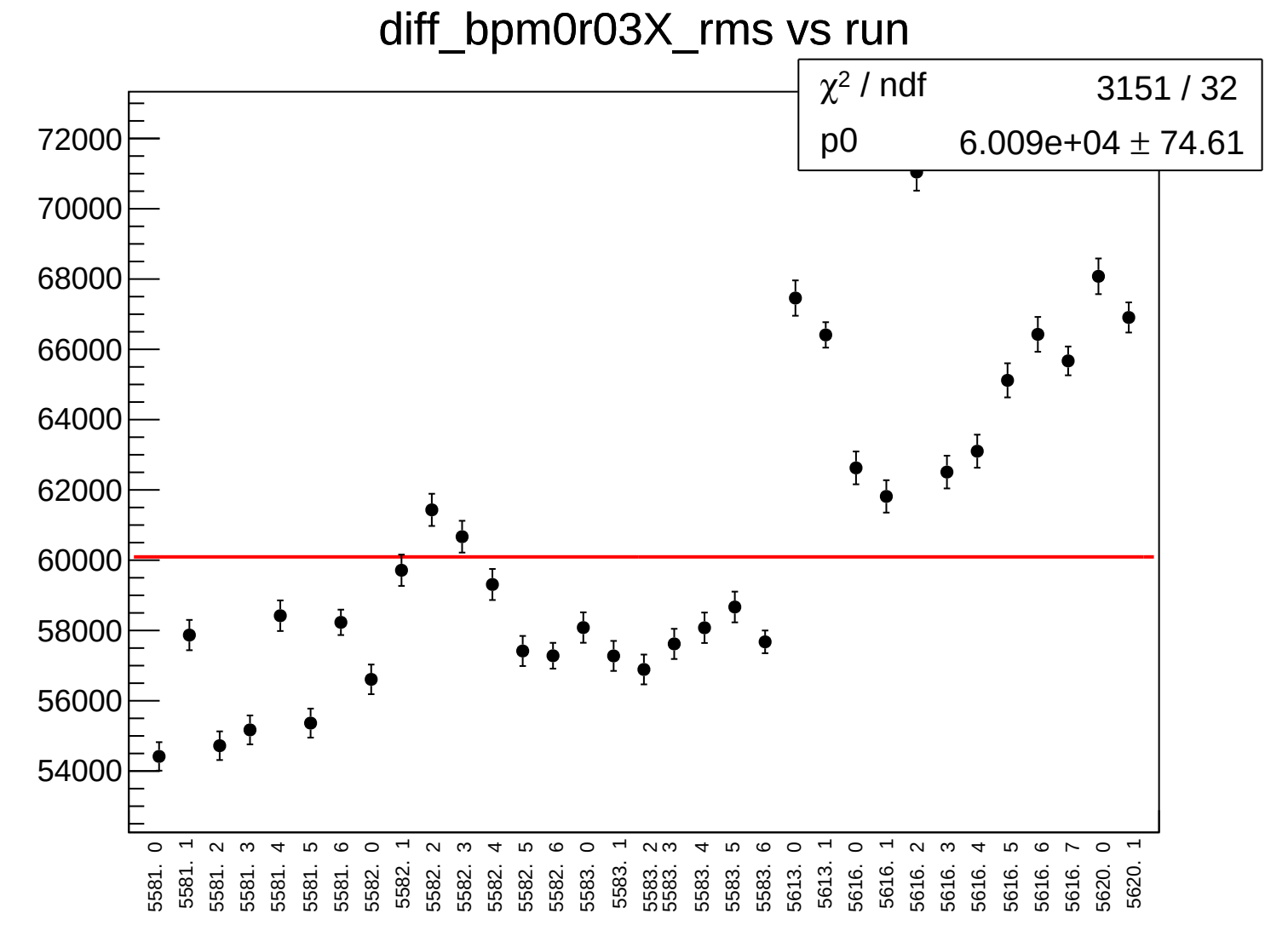

diff_bpm0l10Y_mean vs run
χ² / ndf 24.68 / 32
p0 4.743 ± 1.886
pull
Entries 33
Mean 68.96
Std Dev 0

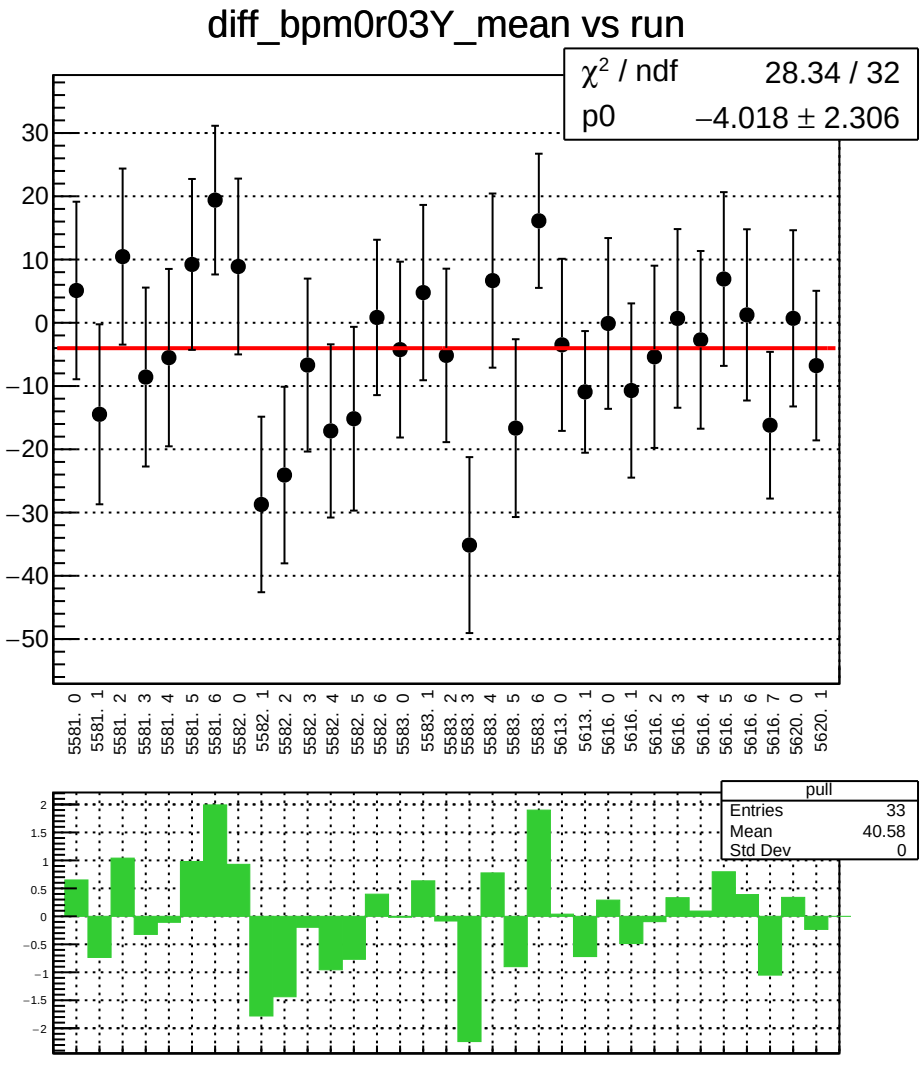

pull1D
Entries 33
Mean 0.02921
Std Dev 0.8643

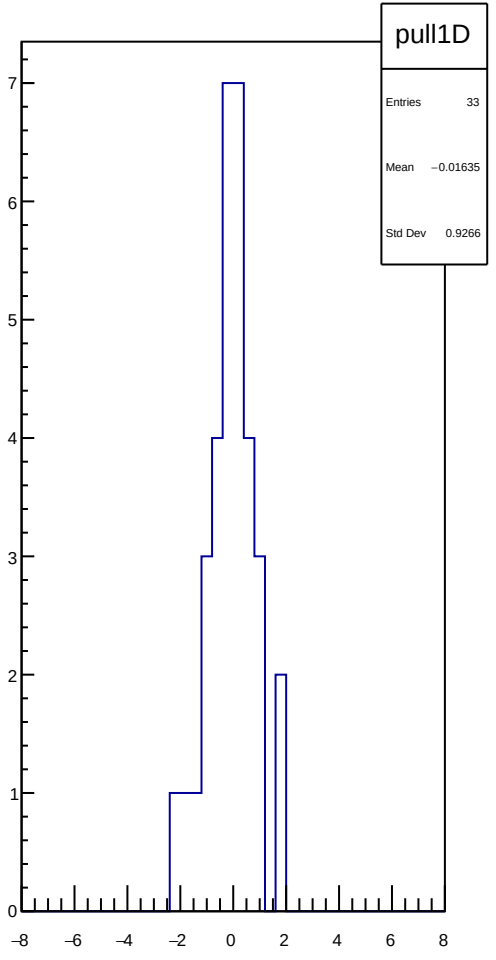

diff_bpm0l10Y_rms vs run
χ² / ndf 477.6 / 32
p0 1077 ± 1.334
1140
1120
1100
1080
1060
1040
1020
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

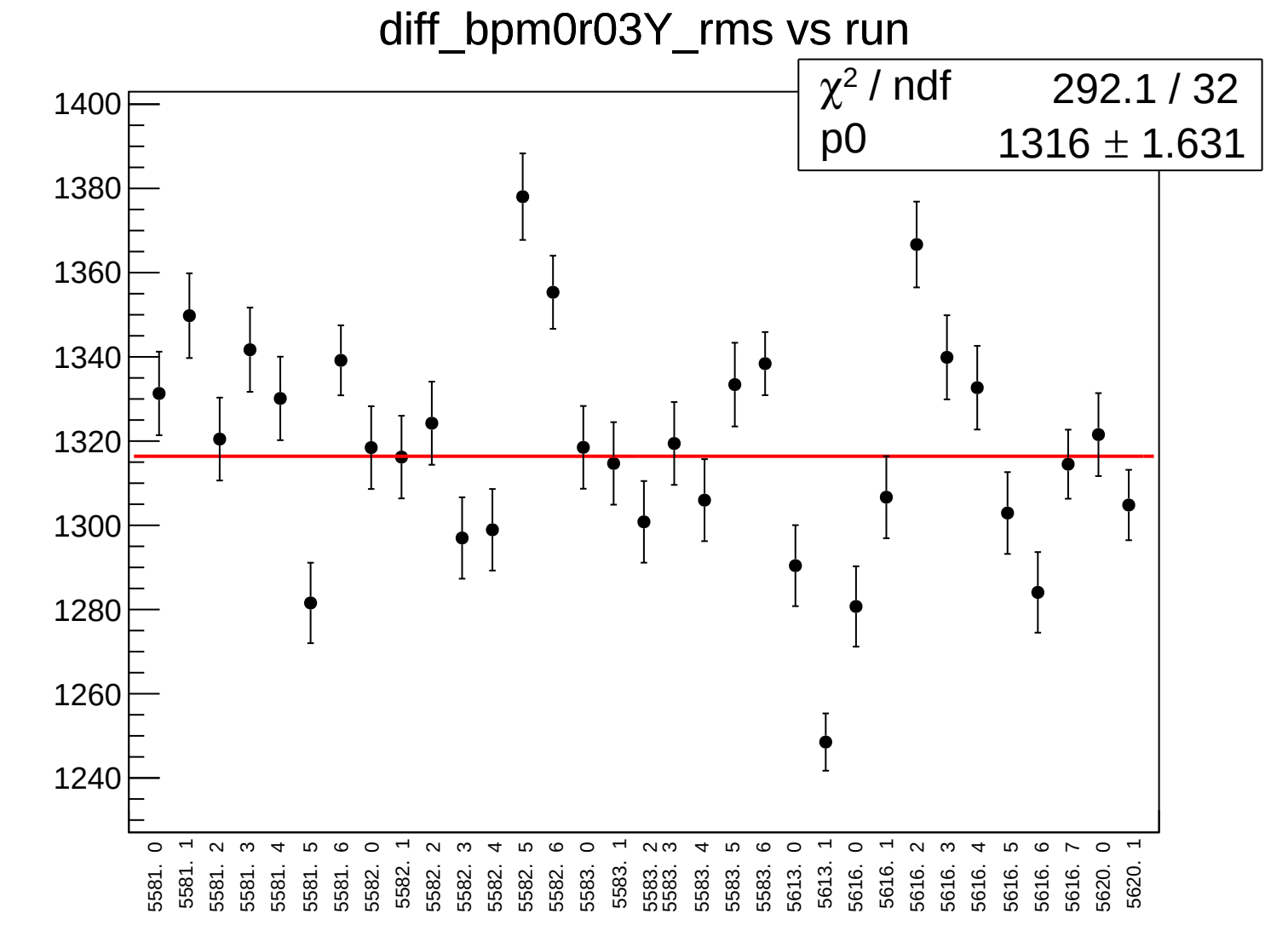

diff_bpm0r03X_mean vs run
χ² / ndf 25.68 / 32
p0 58.77 ± 105.5
2000
1500
1000
500
0
−500
−1000
−1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

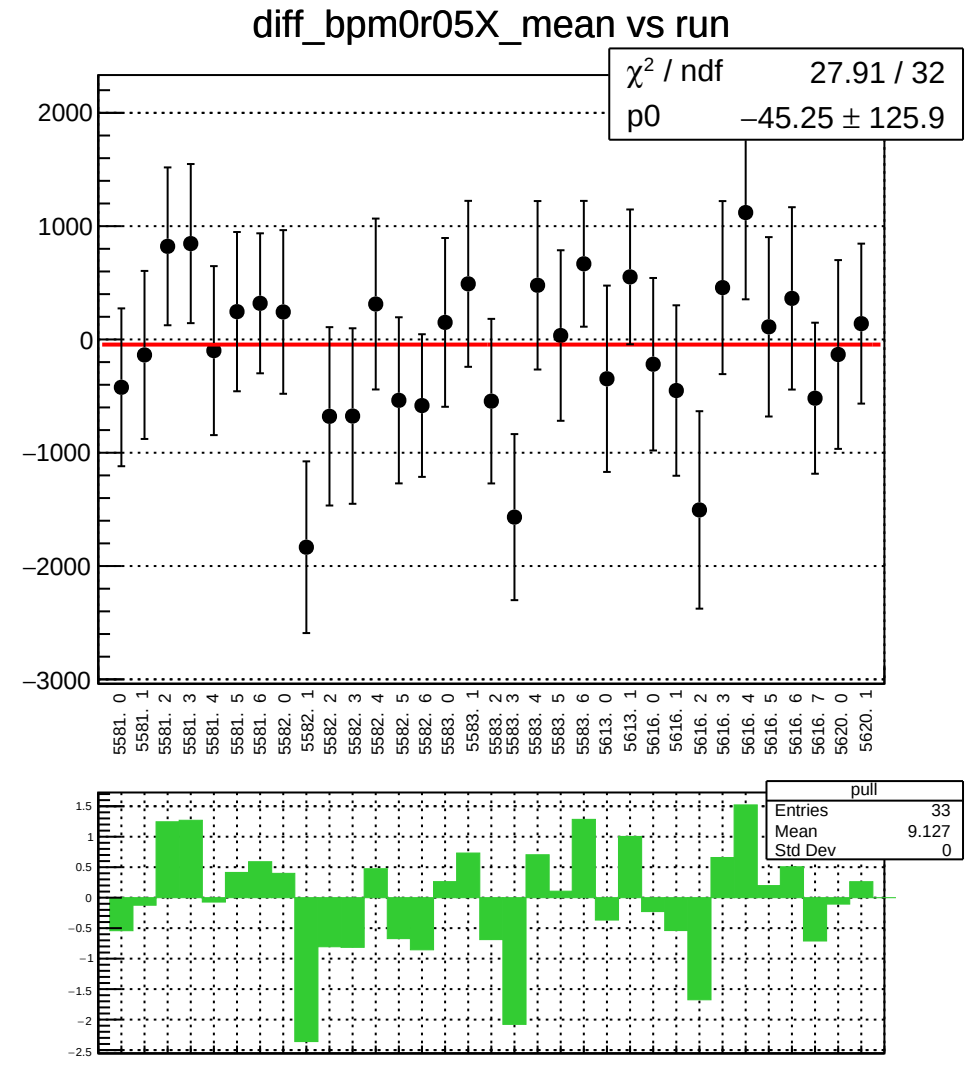

pull1D
Entries 33
Mean 0.03053
Std Dev 0.8816
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

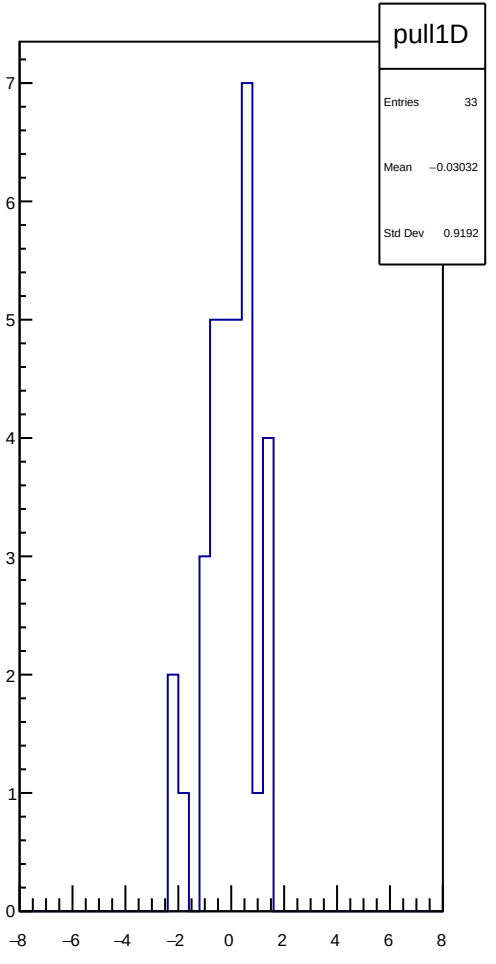

diff_bpm0r03X_rms vs run
χ² / ndf 3151 / 32
p0 6.009e+04 ± 74.61
72000
70000
68000
66000
64000
62000
60000
58000
56000
54000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

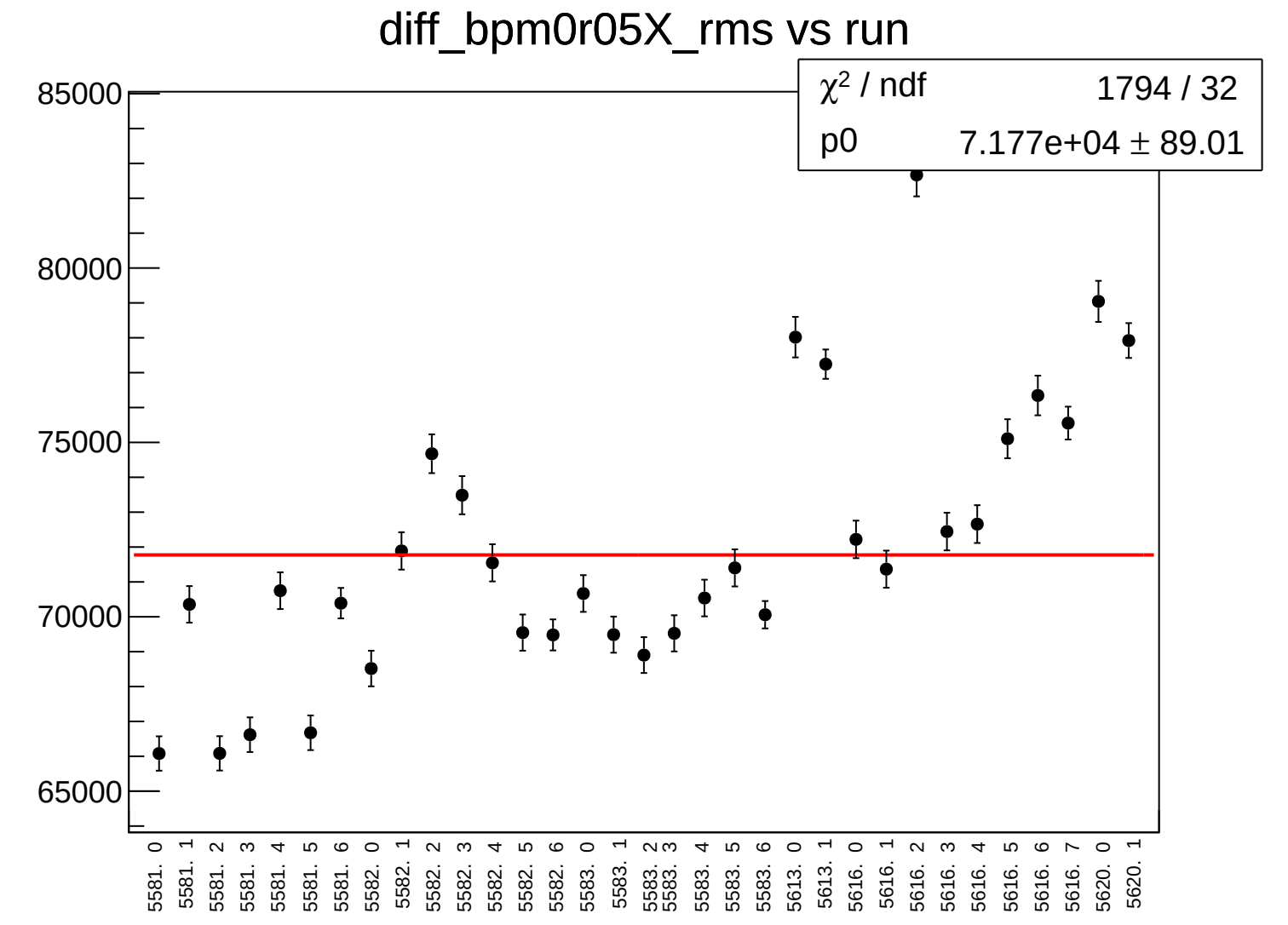

diff_bpm0r03Y_mean vs run
χ² / ndf 28.34 / 32
p0 −4.018 ± 2.306
30
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

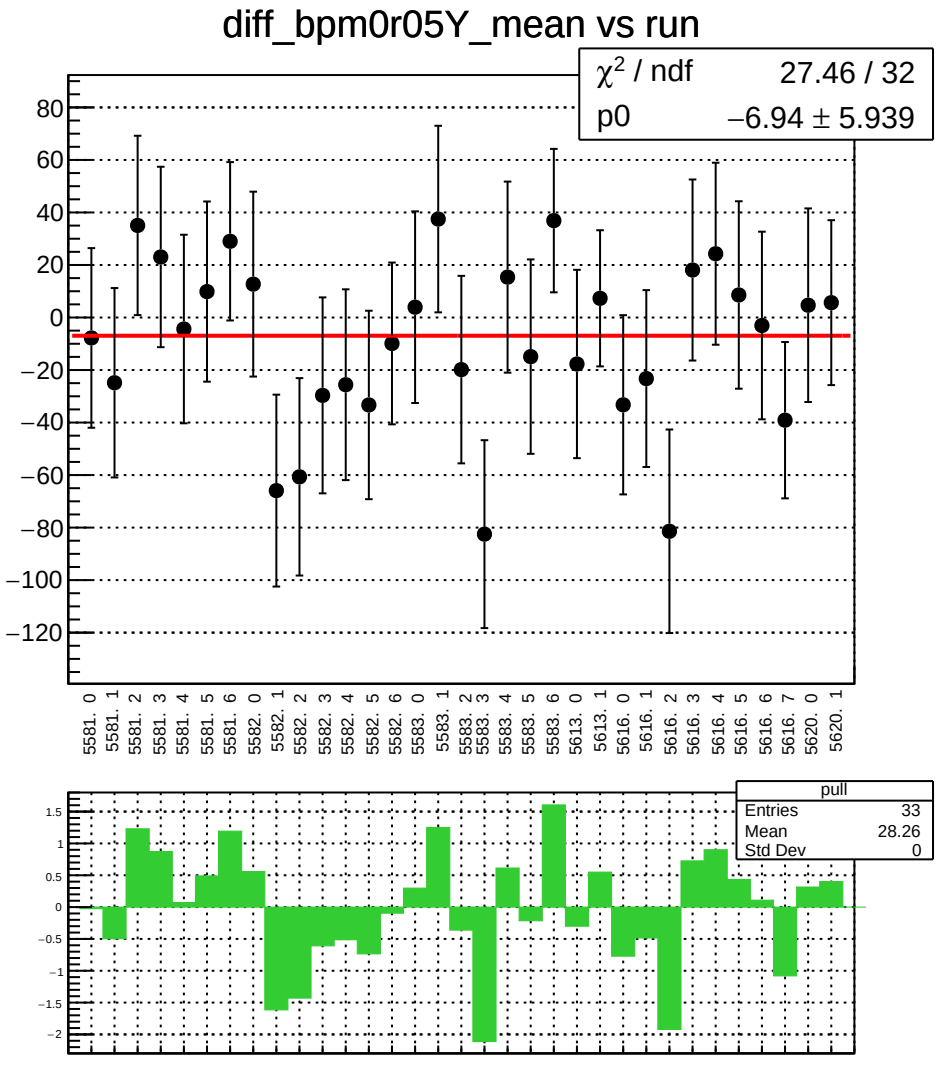

pull1D
Entries 33
Mean −0.01635
Std Dev 0.9266
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

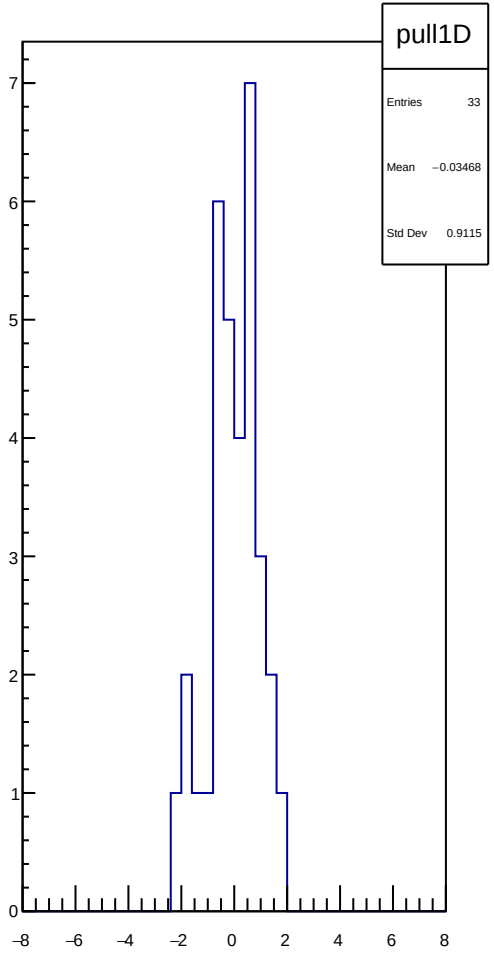

diff_bpm0r03Y_rms vs run
χ² / ndf 292.1 / 32
p0 1316 ± 1.631
1400
1380
1360
1340
1320
1300
1280
1260
1240
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

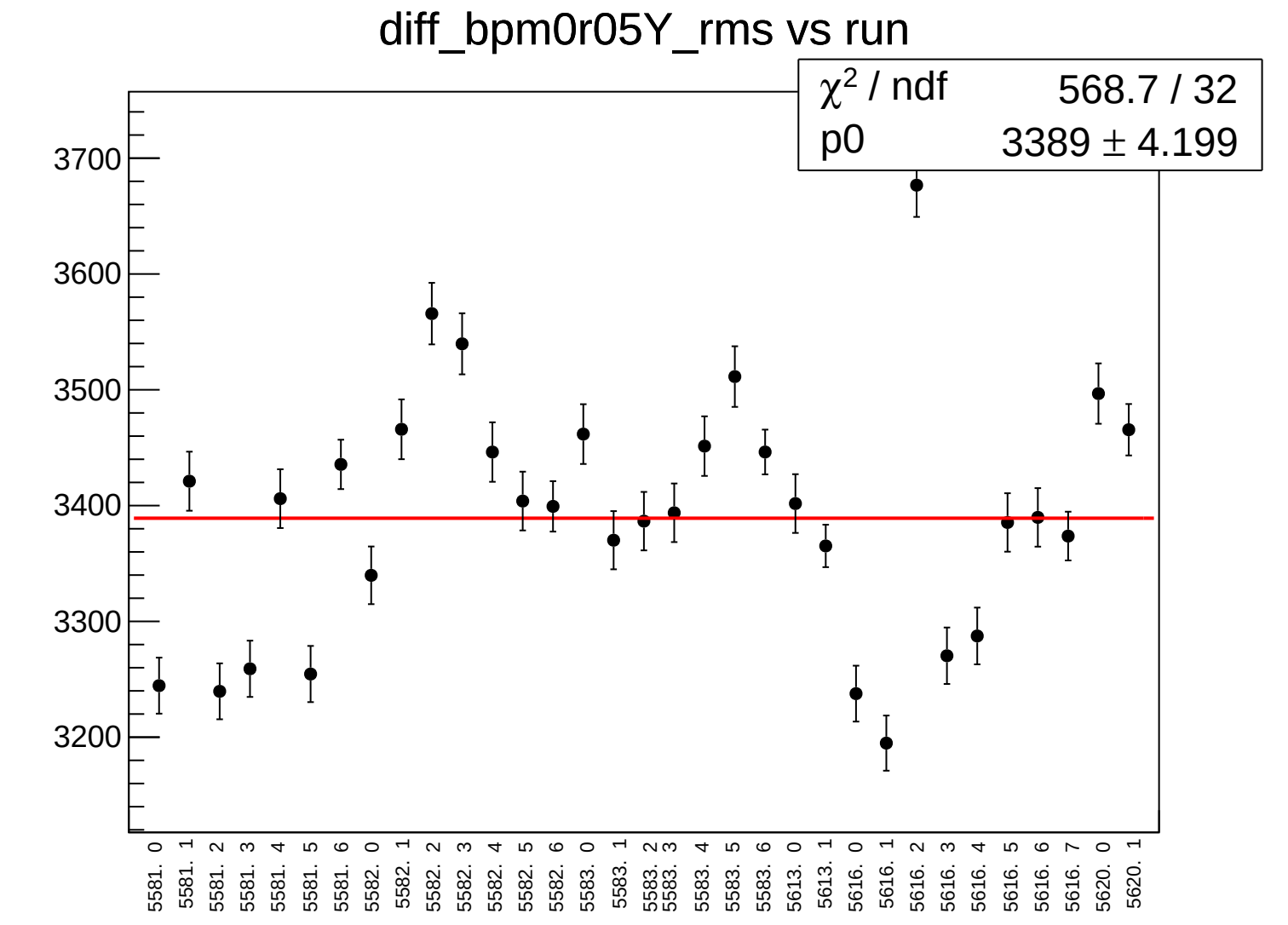

diff_bpm0r05X_mean vs run
χ² / ndf 27.91 / 32
p0 −45.25 ± 125.9
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 9.127
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

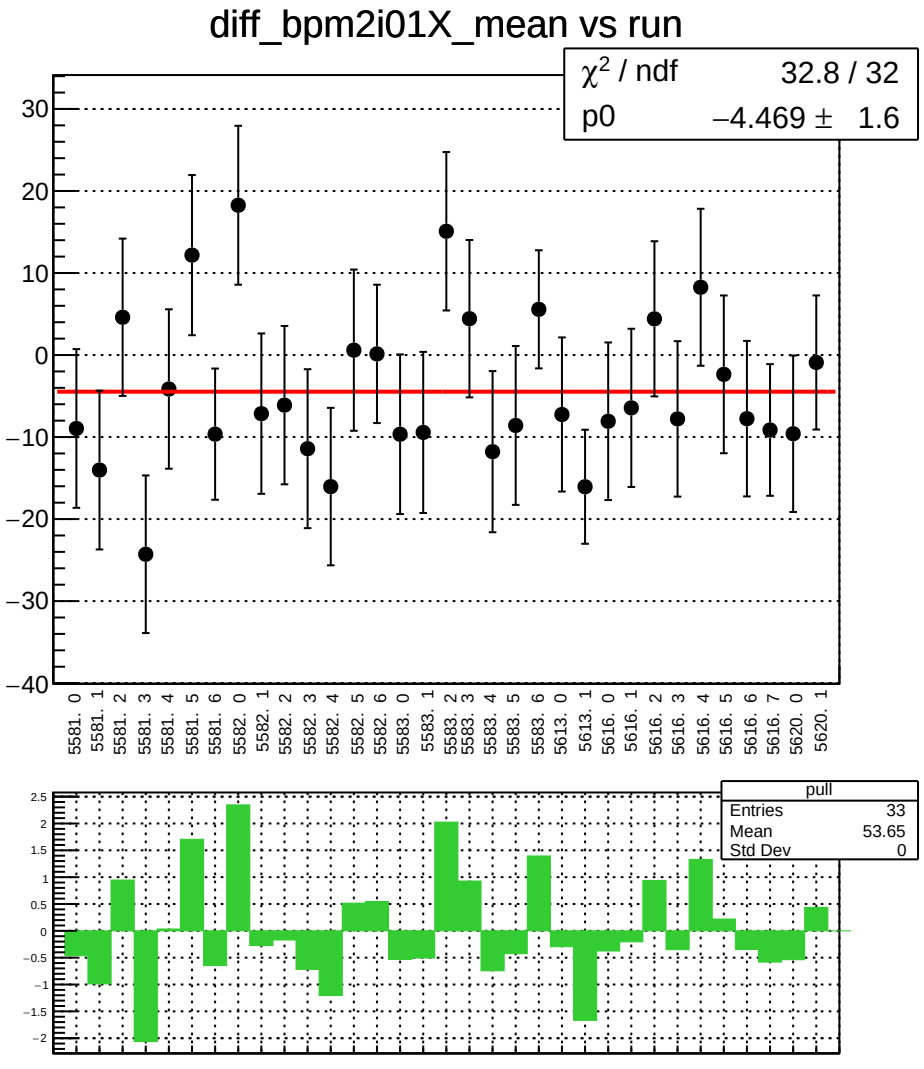

pull1D
Entries 33
Mean −0.03032
Std Dev 0.9192
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

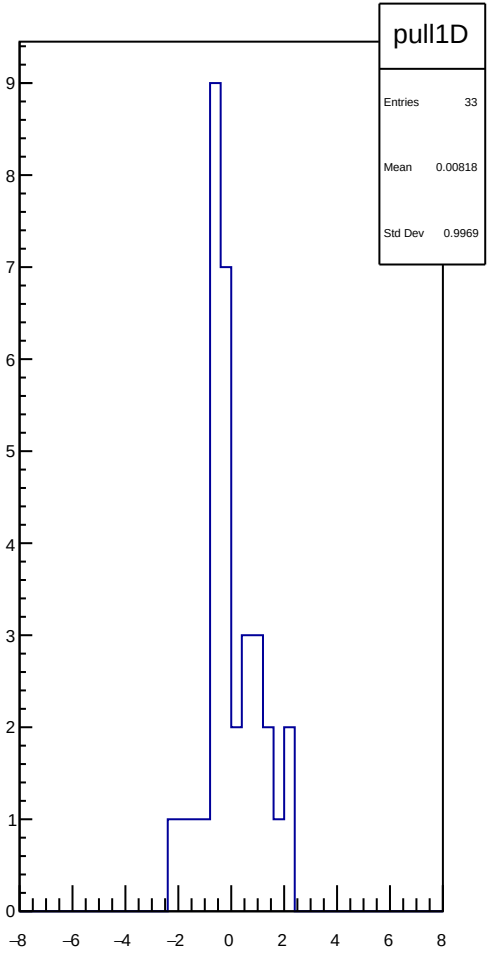

diff_bpm0r05X_rms vs run
χ² / ndf 1794 / 32
p0 7.177e+04 ± 89.01
85000
80000
75000
70000
65000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

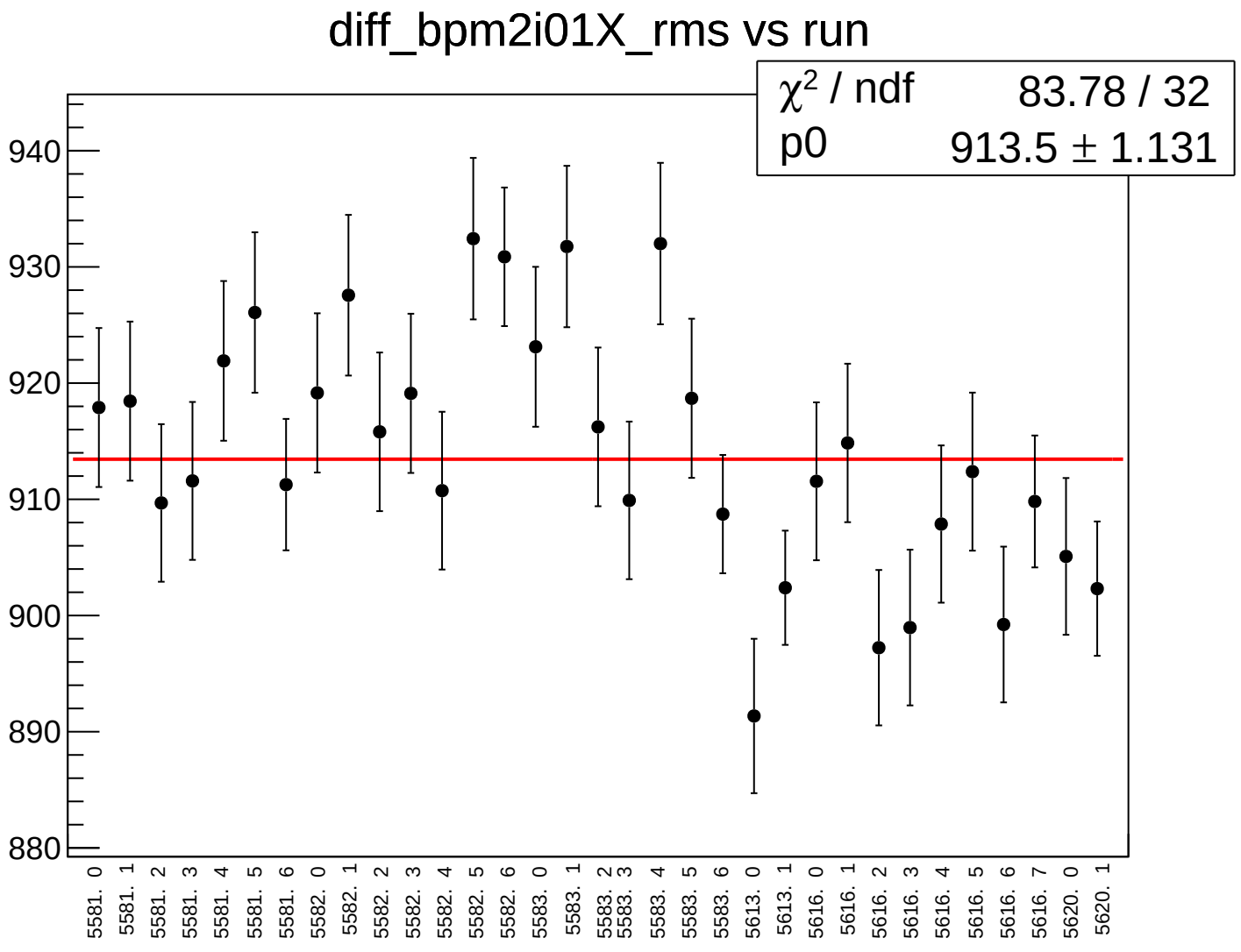

diff_bpm0r05Y_mean vs run
χ² / ndf 27.46 / 32
p0 −6.94 ± 5.939
pull
Entries 33
Mean 28.26
Std Dev 0

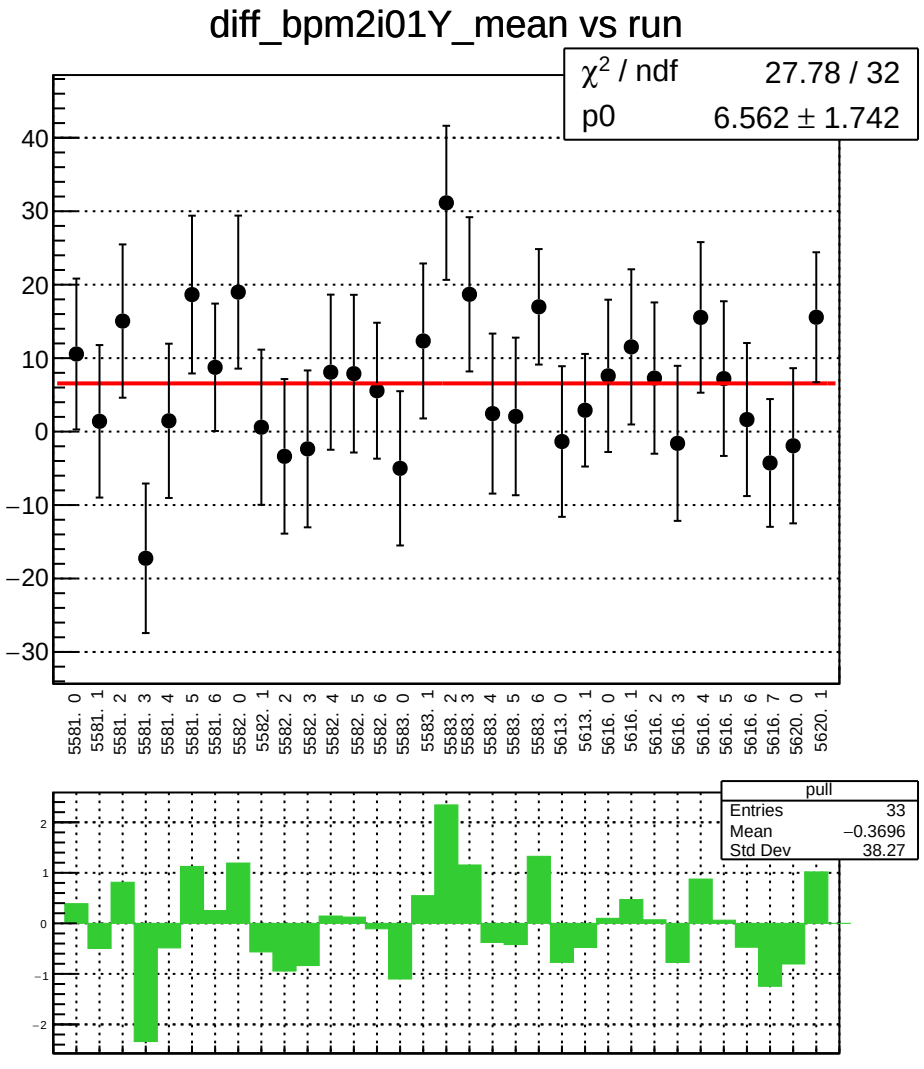

pull1D
Entries 33
Mean −0.03468
Std Dev 0.9115

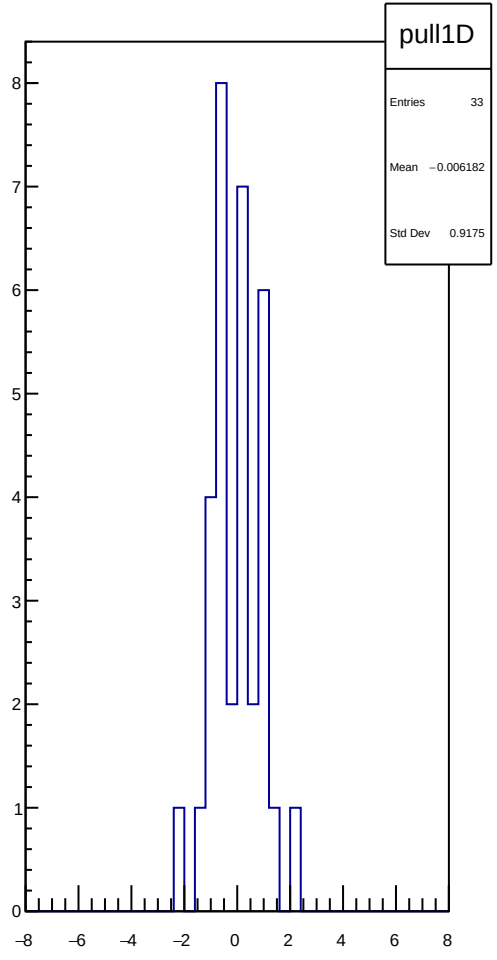

diff_bpm0r05Y_rms vs run
χ² / ndf 568.7 / 32
p0 3389 ± 4.199
3700
3600
3500
3400
3300
3200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

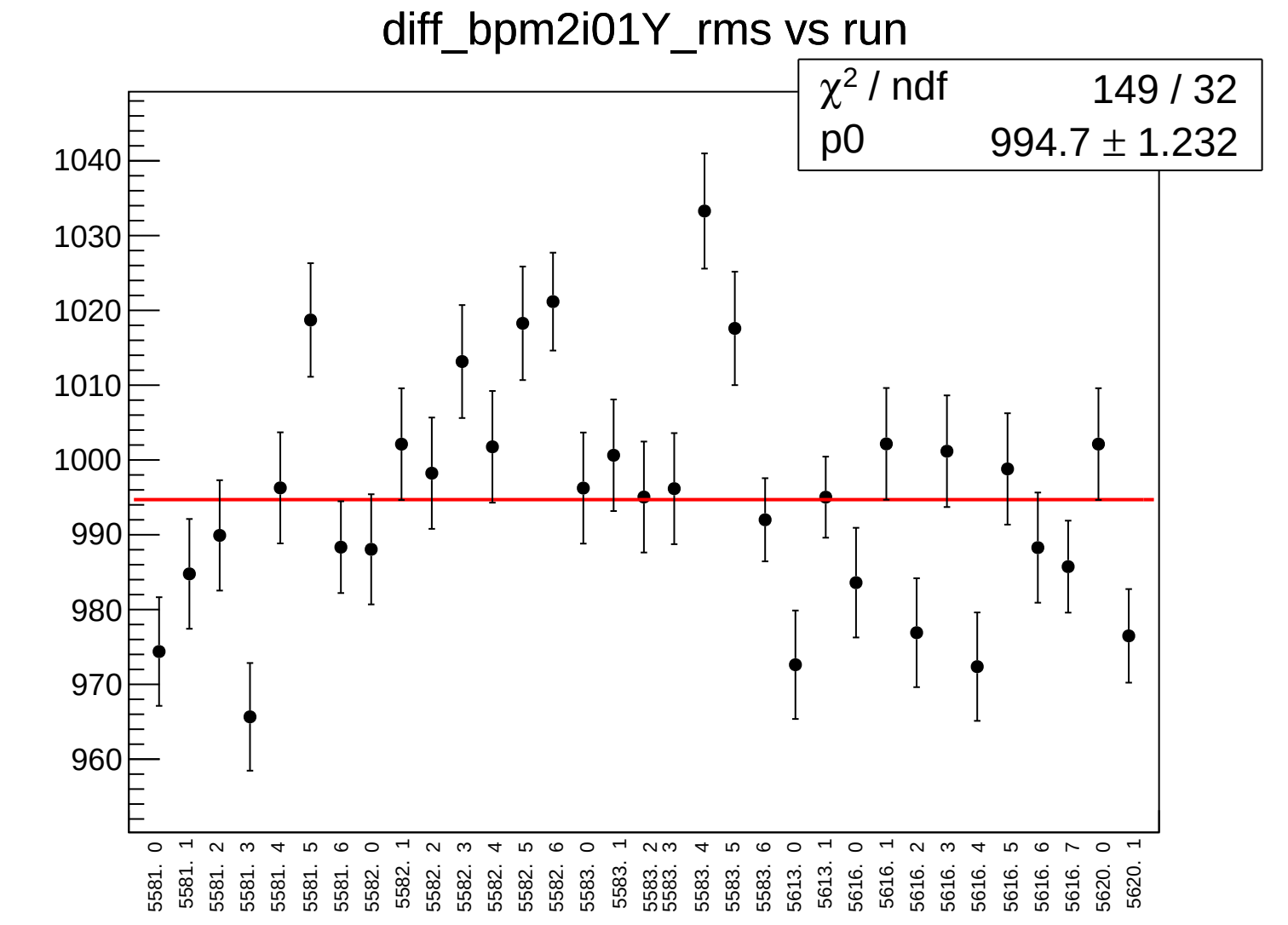

diff_bpm2i01X_mean vs run
χ² / ndf 32.8 / 32
p0 −4.469 ± 1.6
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 53.65
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

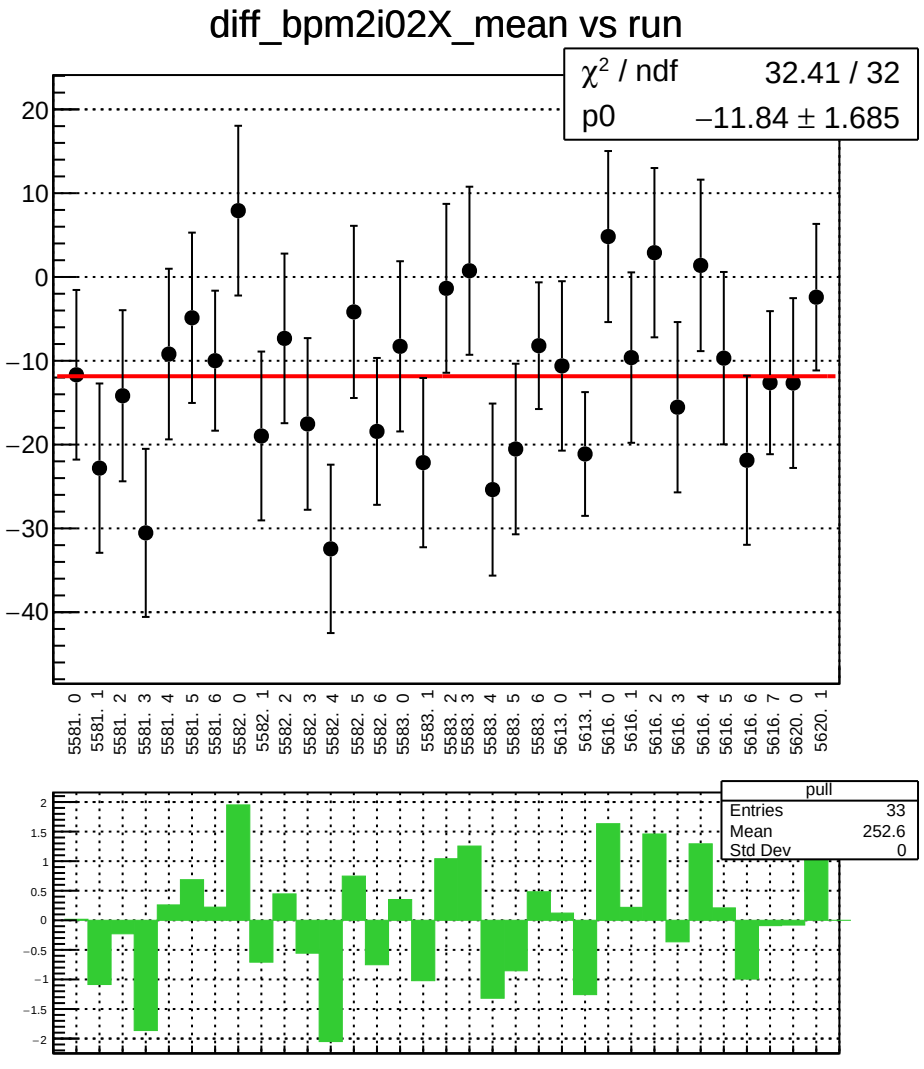

pull1D
Entries 33
Mean 0.00818
Std Dev 0.9969
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

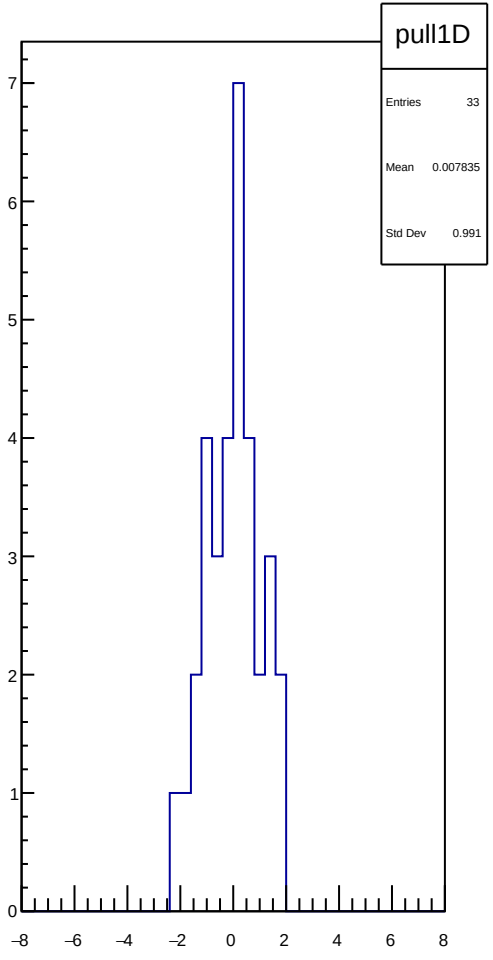

diff_bpm2i01X_rms vs run
χ² / ndf 83.78 / 32
p0 913.5 ± 1.131
940
930
920
910
900
890
880
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

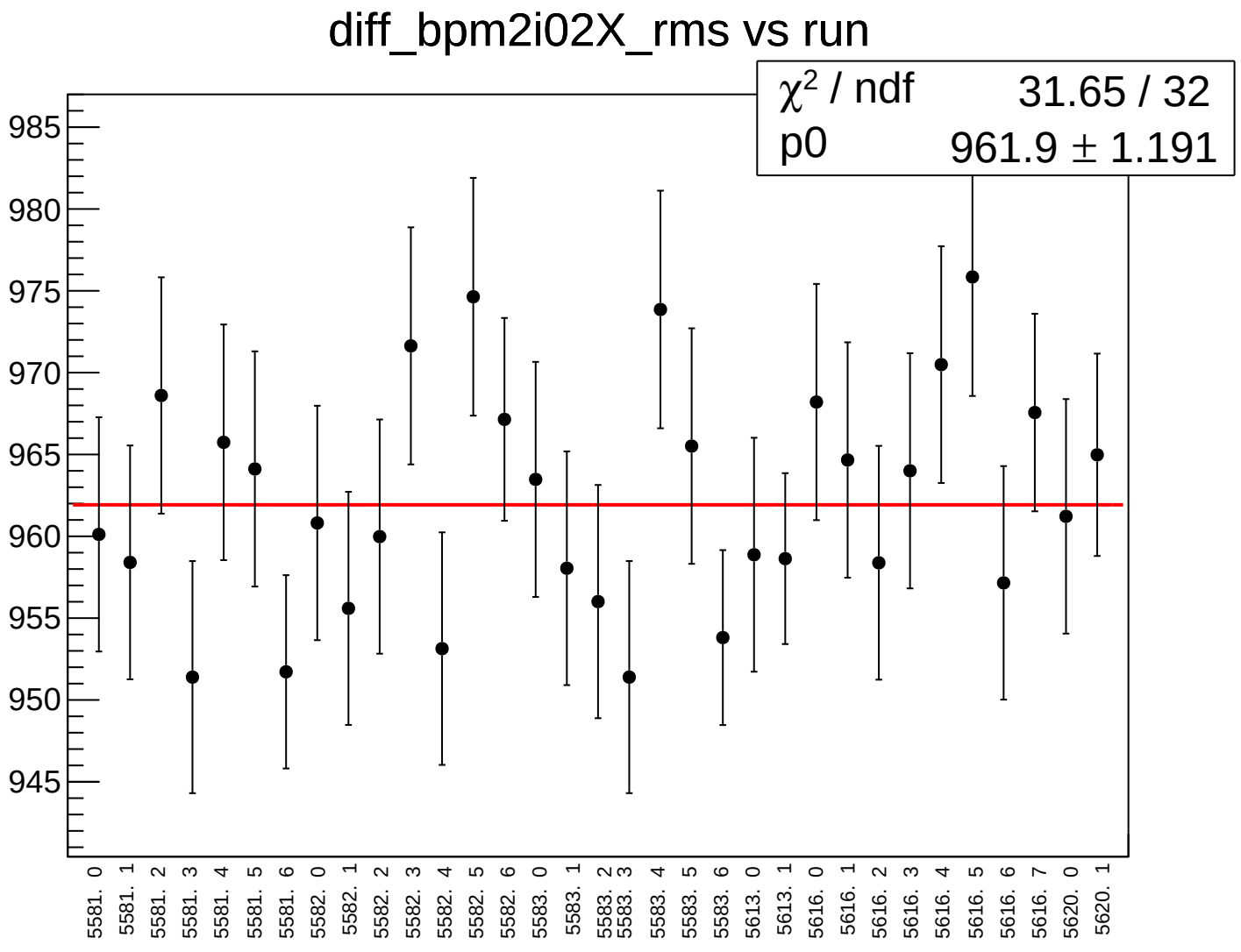

diff_bpm2i01Y_mean vs run
χ² / ndf 27.78 / 32
p0 6.562 ± 1.742
40
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.3696
Std Dev 38.27
2
1
0
−1
−2

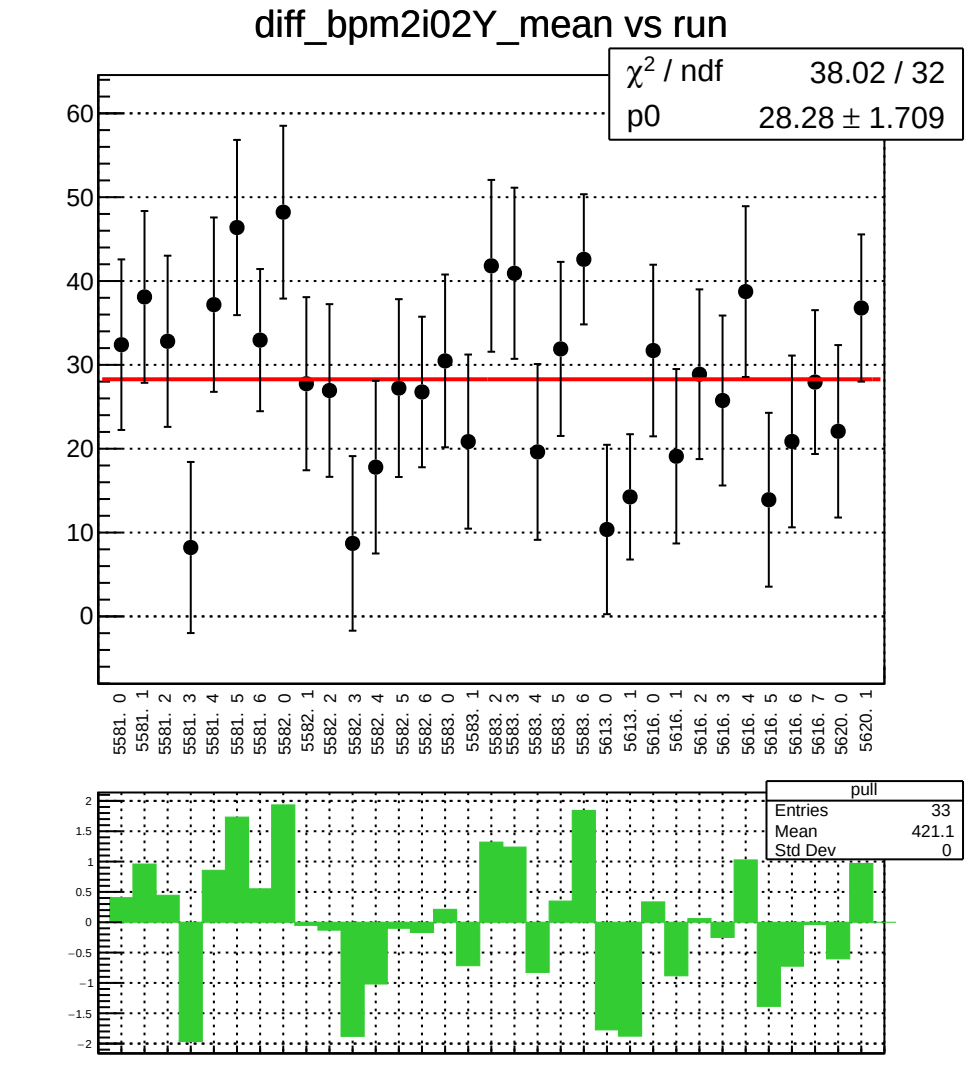

pull1D
Entries 33
Mean −0.006182
Std Dev 0.9175
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

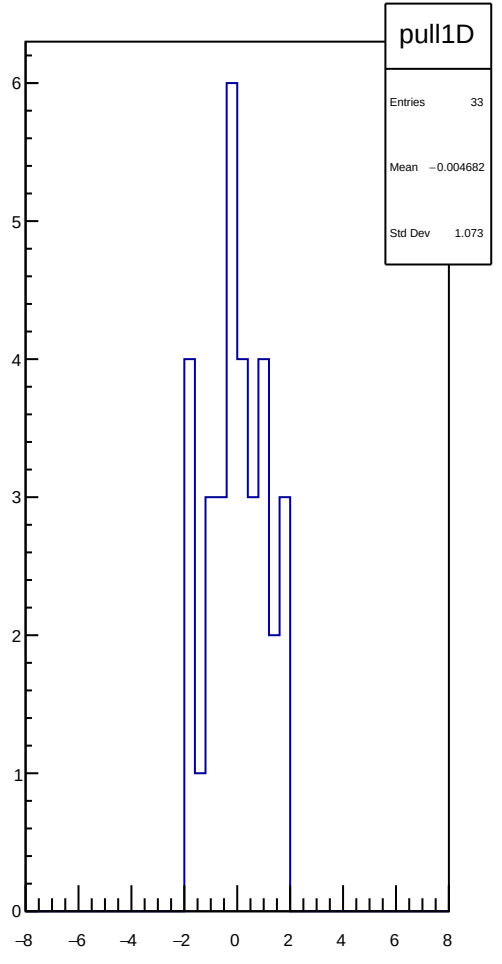

diff_bpm2i01Y_rms vs run
χ² / ndf 149 / 32
p0 994.7 ± 1.232
1040
1030
1020
1010
1000
990
980
970
960
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

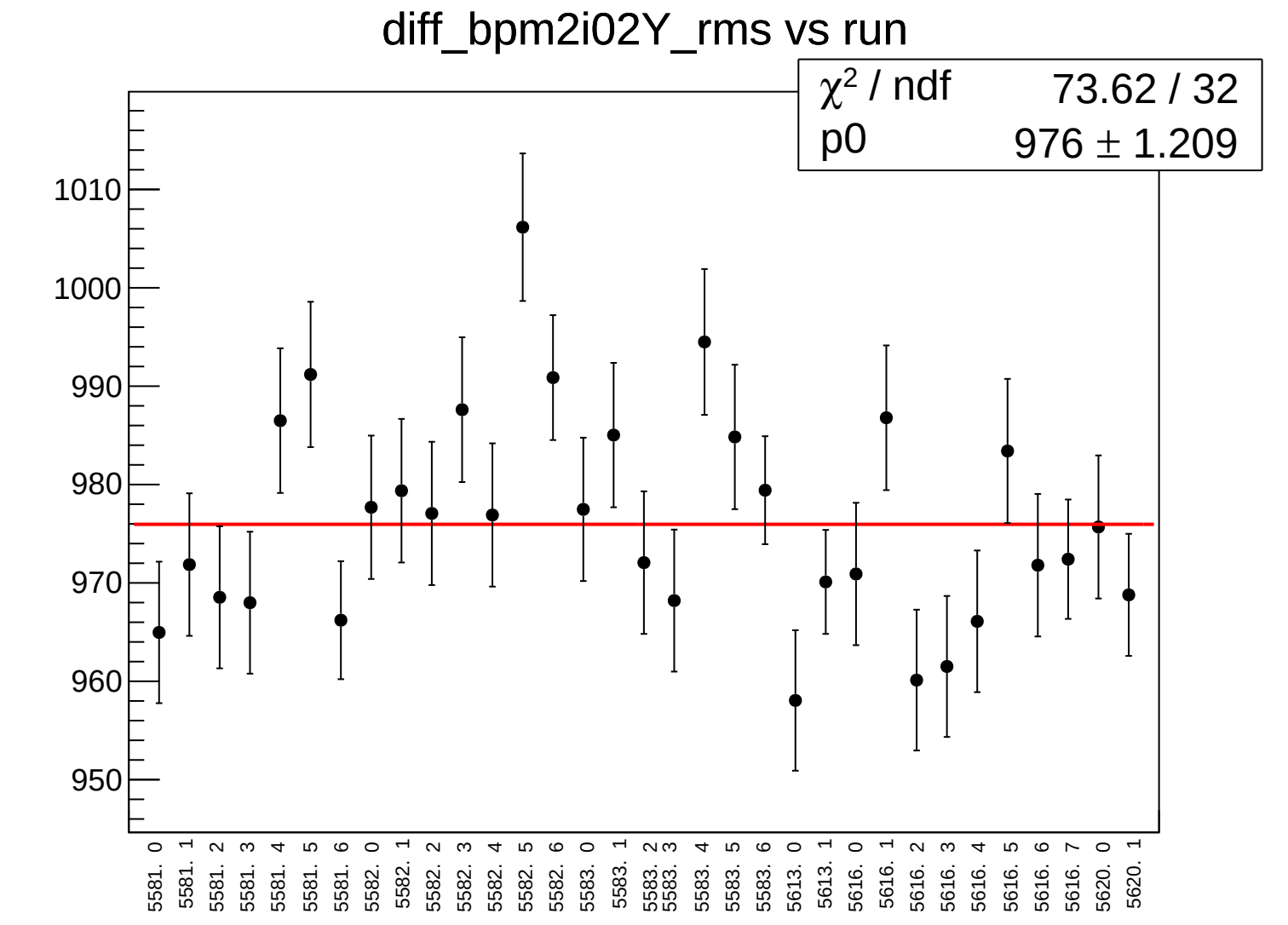

diff_bpm2i02X_mean vs run
χ² / ndf 32.41 / 32
p0 −11.84 ± 1.685
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 252.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

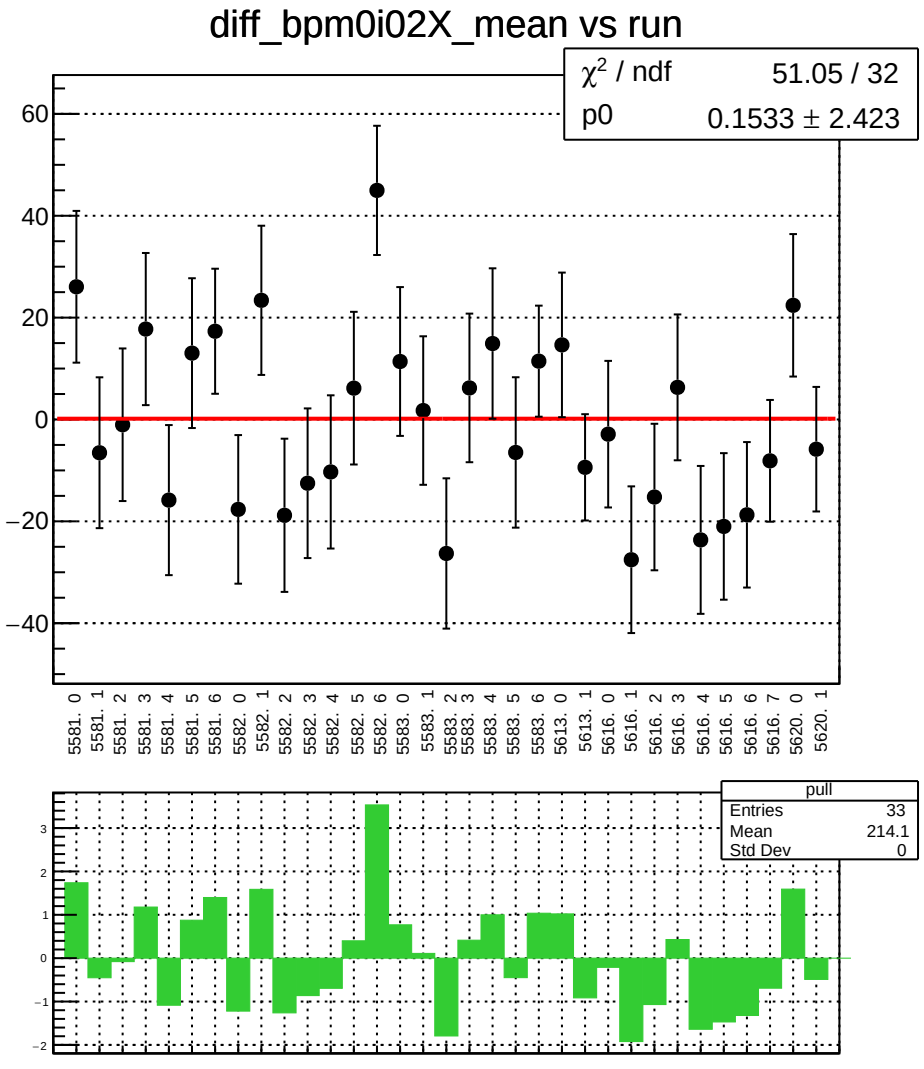

pull1D
Entries 33
Mean 0.007835
Std Dev 0.991
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

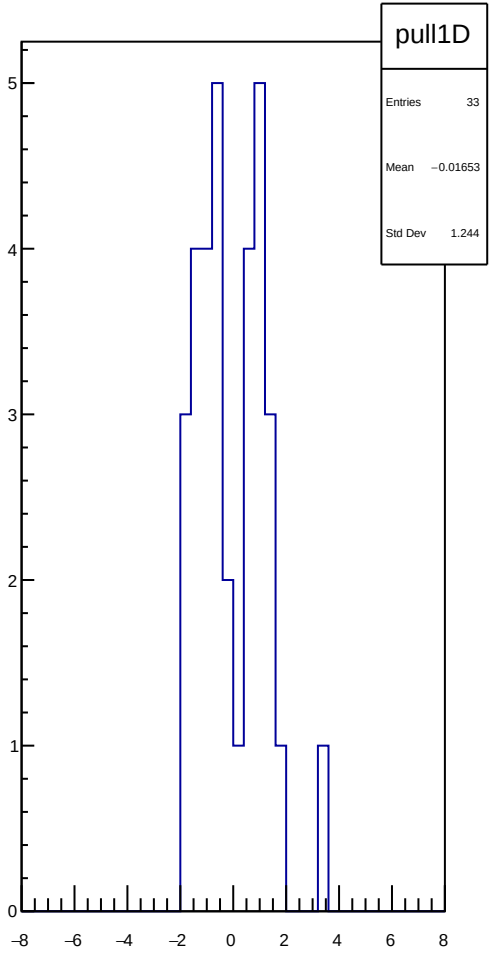

diff_bpm2i02X_rms vs run
χ² / ndf 31.65 / 32
p0 961.9 ± 1.191
985
980
975
970
965
960
955
950
945
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

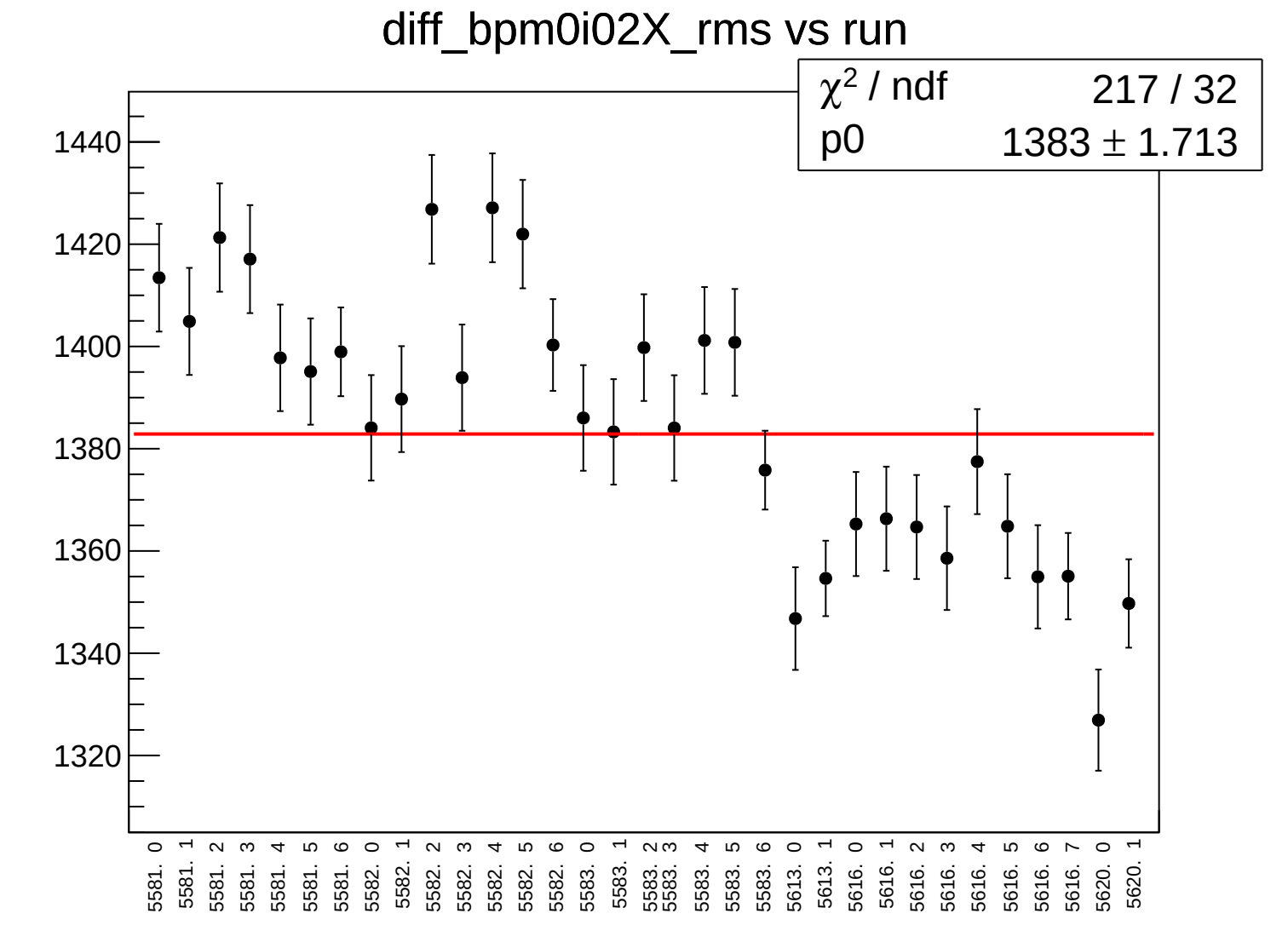

diff_bpm2i02Y_mean vs run
χ² / ndf 38.02 / 32
p0 28.28 ± 1.709
60
50
40
30
20
10
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 421.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

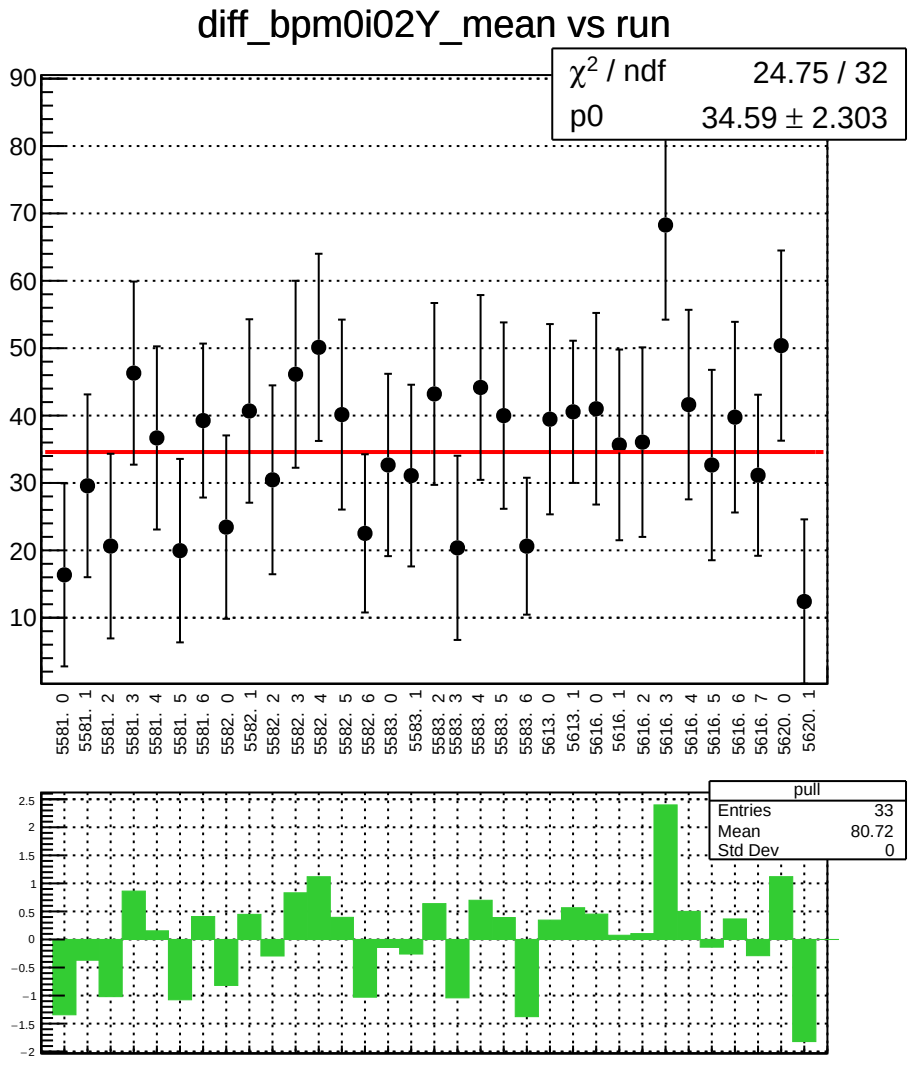

pull1D
Entries 33
Mean −0.004682
Std Dev 1.073
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

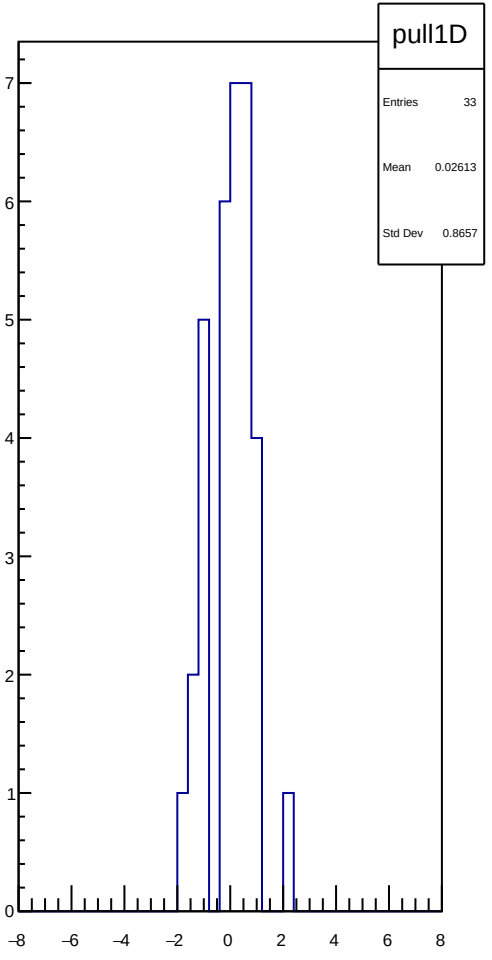

diff_bpm2i02Y_rms vs run
χ² / ndf 73.62 / 32
p0 976 ± 1.209
1010
1000
990
980
970
960
950
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

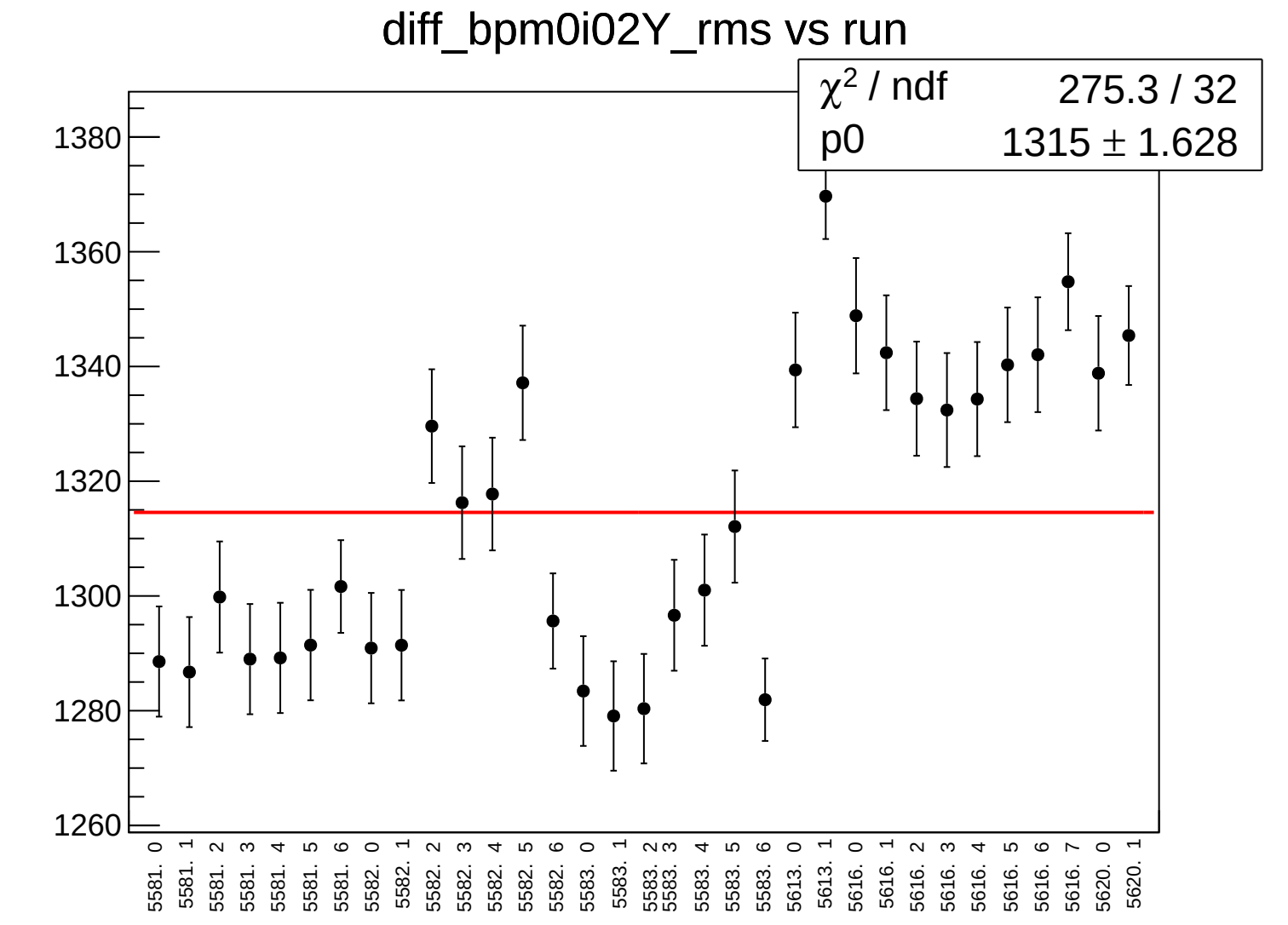

diff_bpm0i02X_mean vs run
χ² / ndf 51.05 / 32
p0 0.1533 ± 2.423
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 214.1
Std Dev 0
3
2
1
0
−1
−2

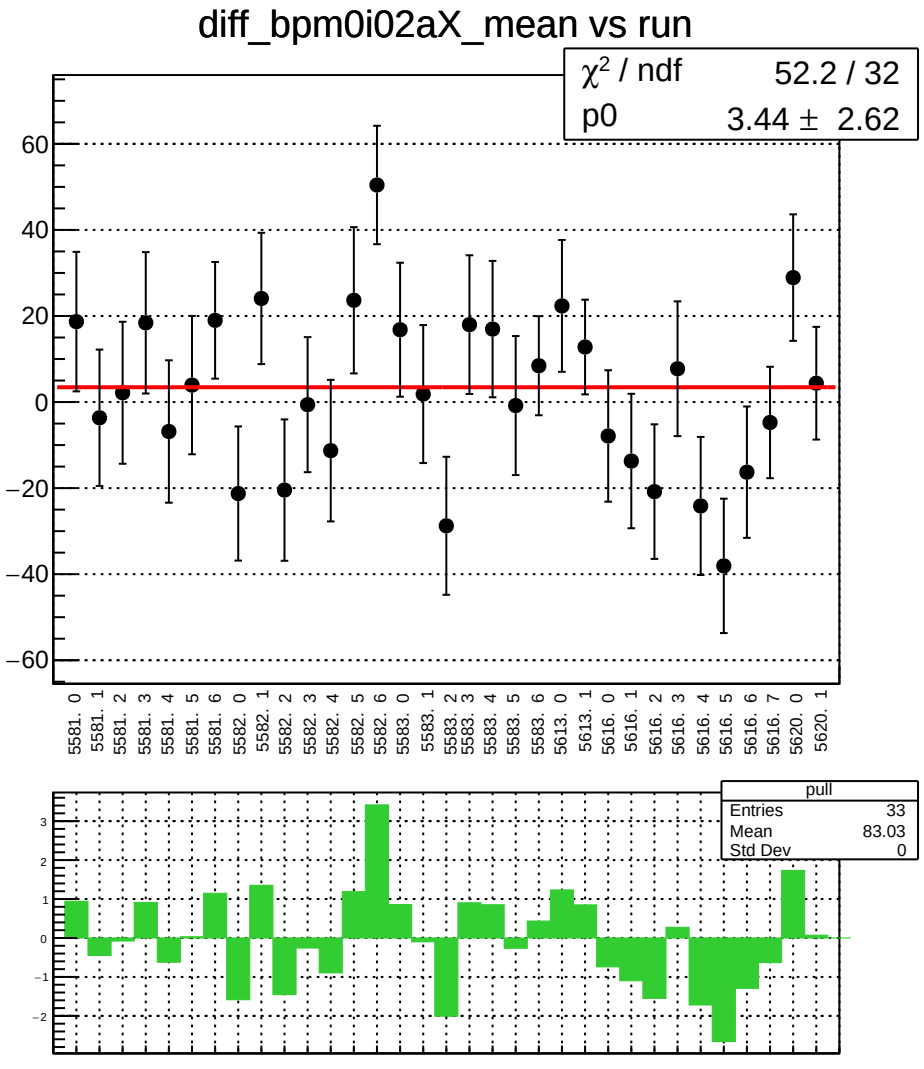

pull1D
Entries 33
Mean −0.01653
Std Dev 1.244
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

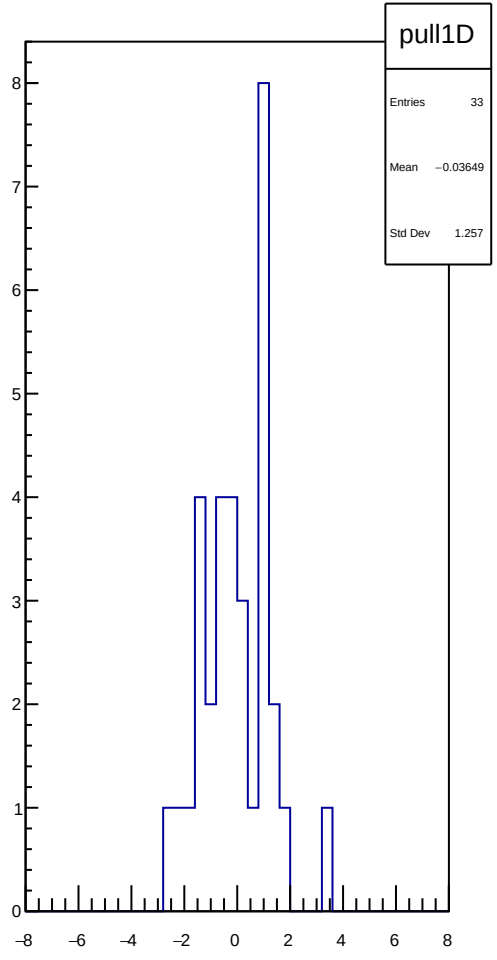

diff_bpm0i02X_rms vs run
χ² / ndf 217 / 32
p0 1383 ± 1.713
1440
1420
1400
1380
1360
1340
1320
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

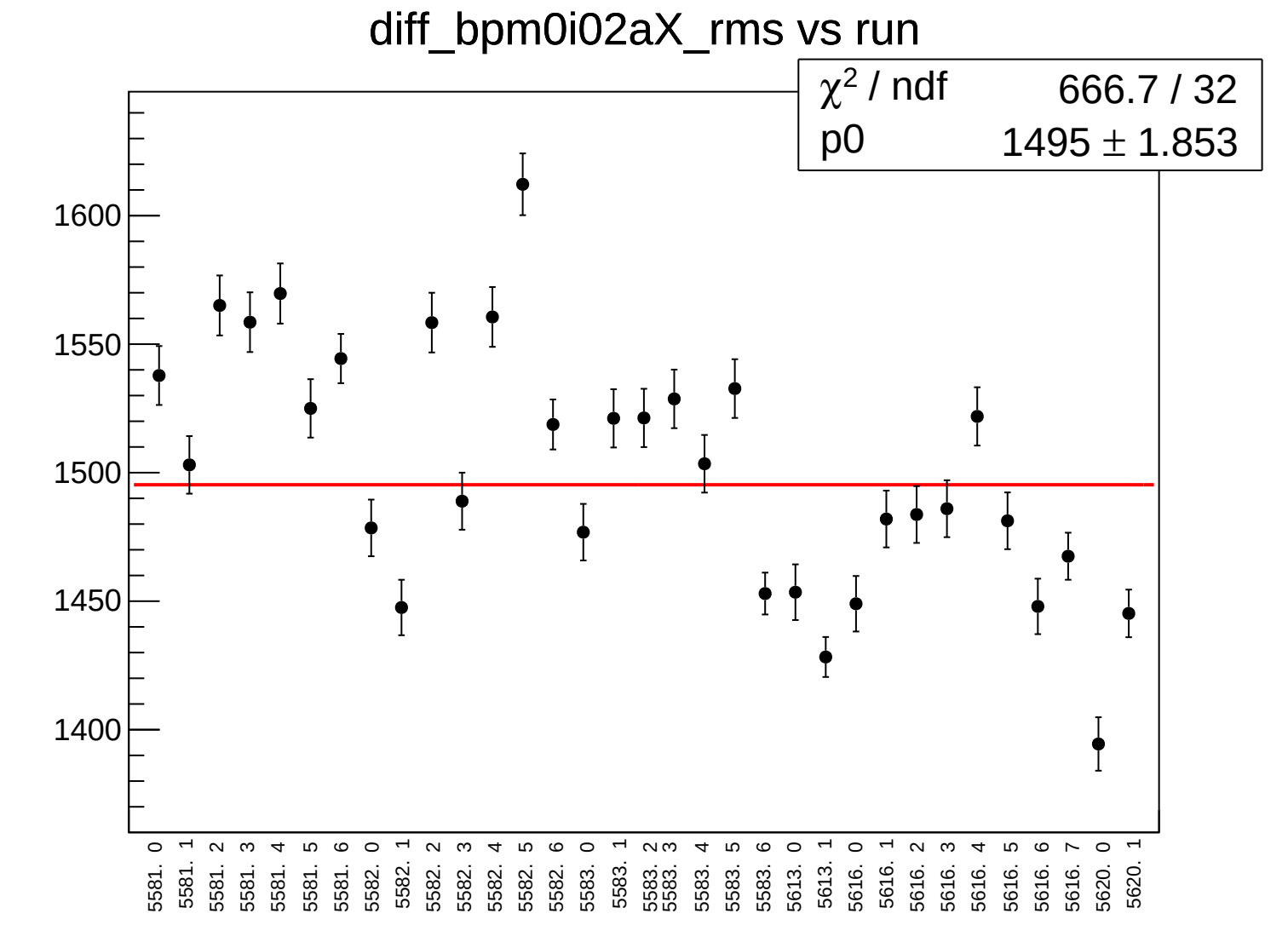

diff_bpm0i02Y_mean vs run
χ² / ndf 24.75 / 32
p0 34.59 ± 2.303
90
80
70
60
50
40
30
20
10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 80.72
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

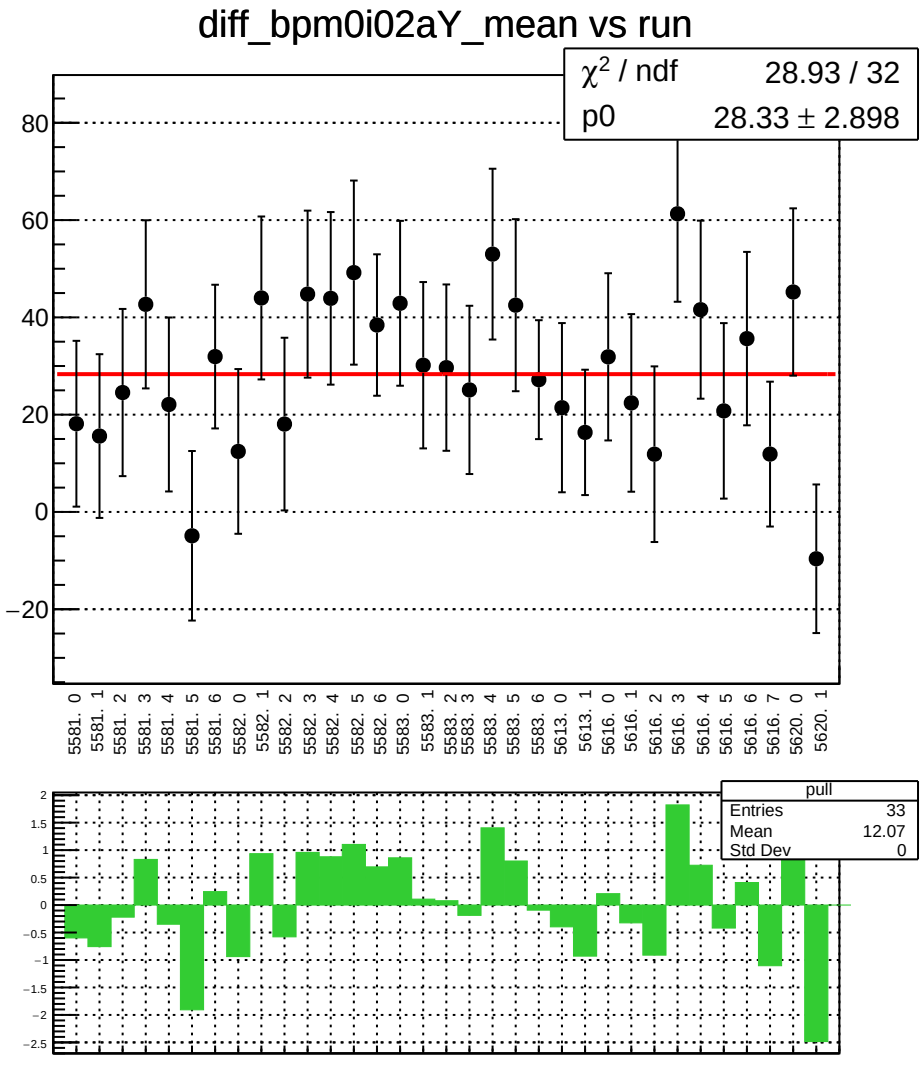

pull1D
Entries 33
Mean 0.02613
Std Dev 0.8657
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

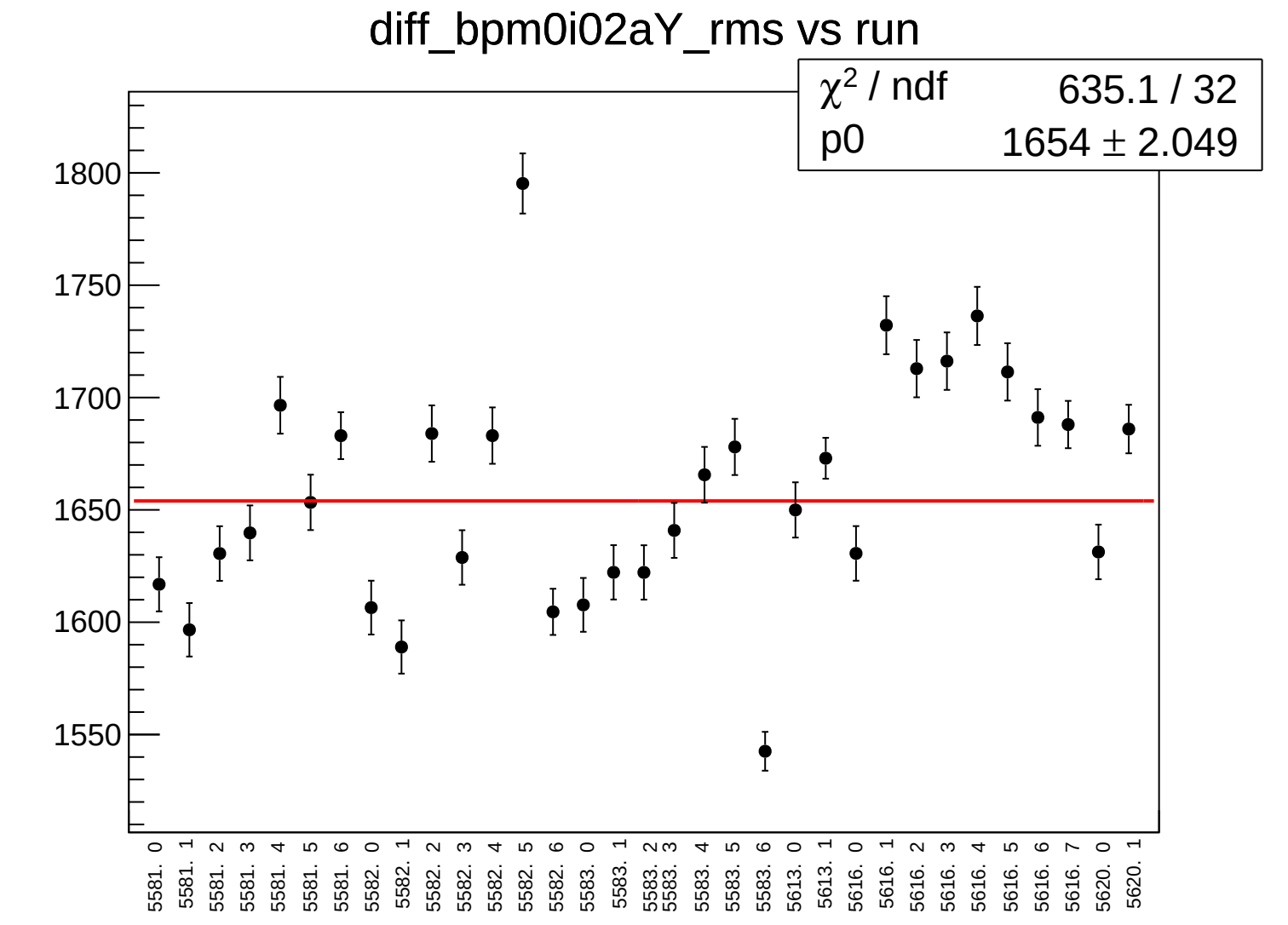

diff_bpm0i02Y_rms vs run
χ² / ndf 275.3 / 32
p0 1315 ± 1.628
1380
1360
1340
1320
1300
1280
1260
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

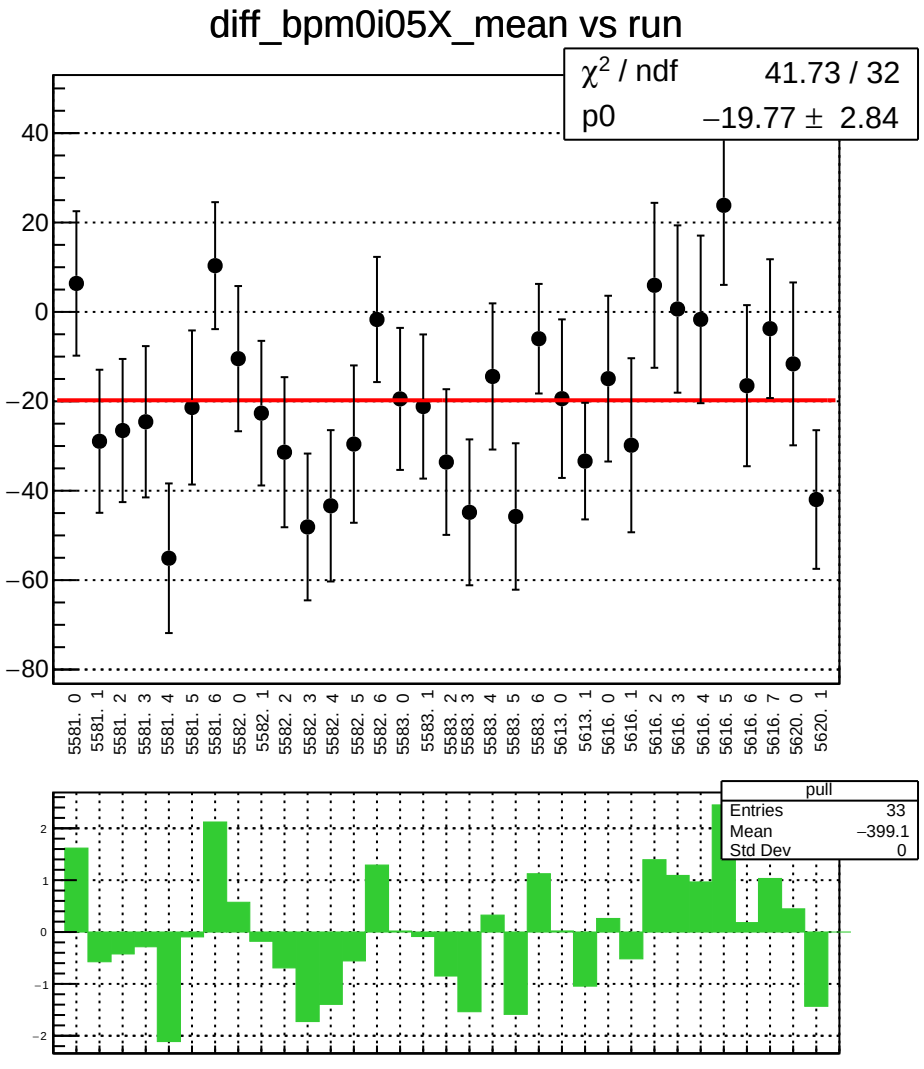

diff_bpm0i02aX_mean vs run
χ² / ndf 52.2 / 32
p0 3.44 ± 2.62
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 83.03
Std Dev 0
3
2
1
0
−1
−2

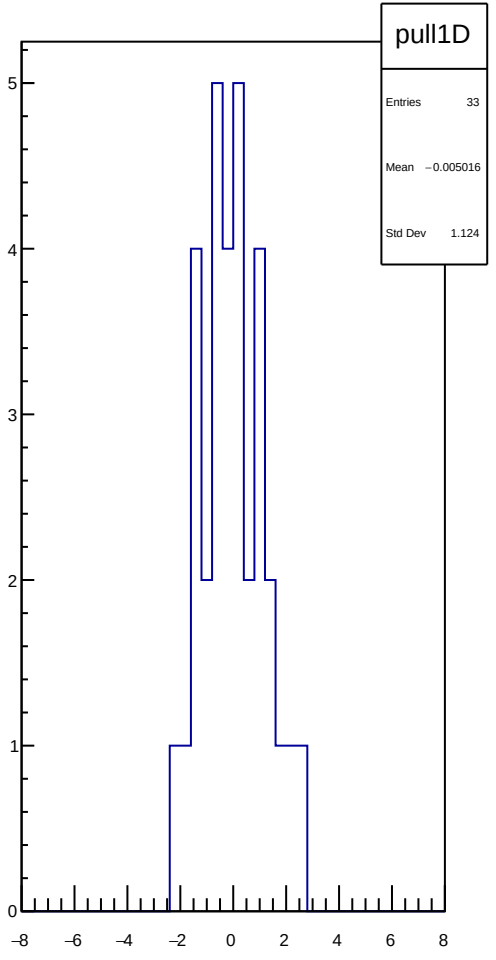

pull1D
Entries 33
Mean −0.03649
Std Dev 1.257
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

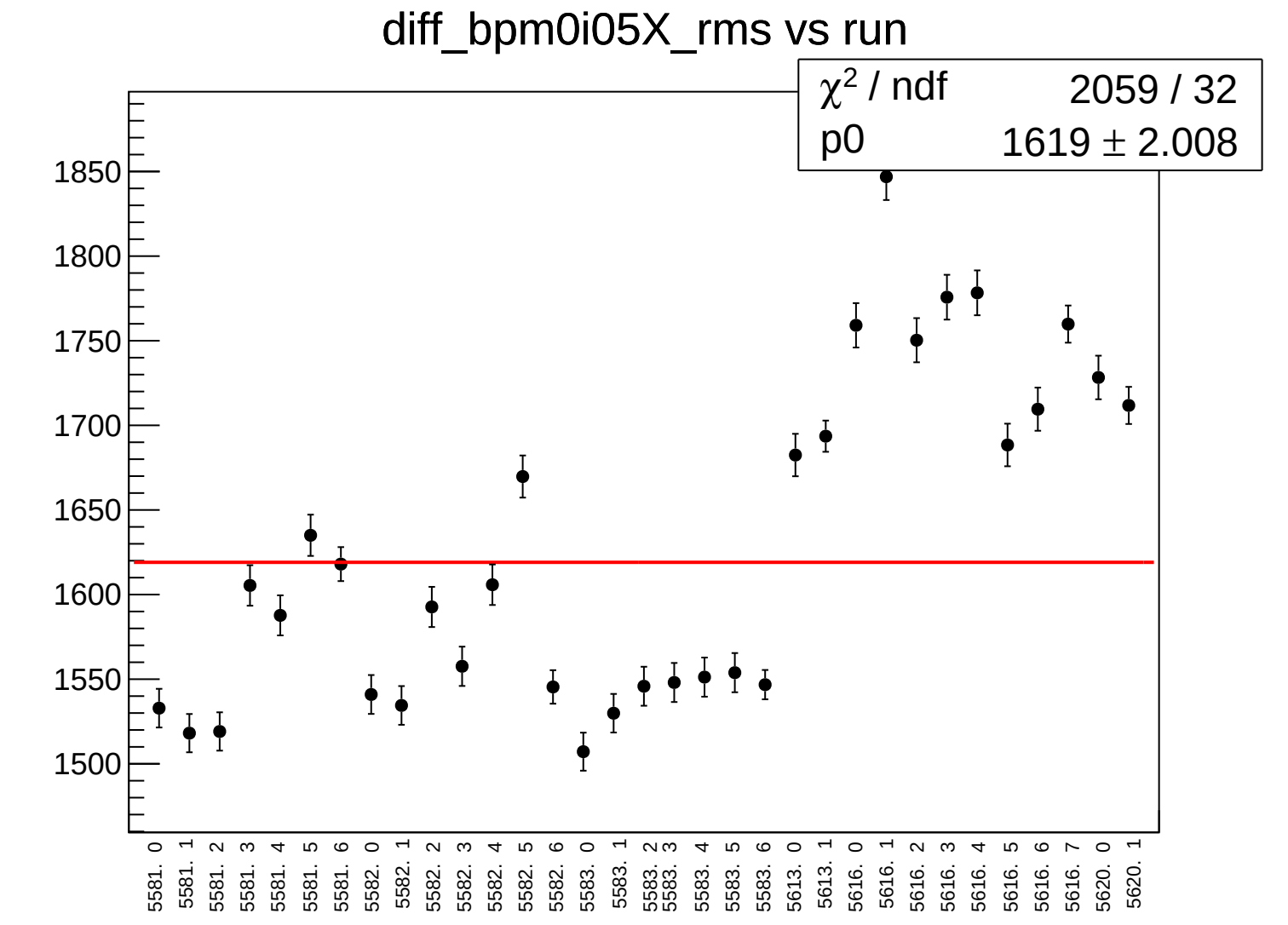

diff_bpm0i02aX_rms vs run
χ² / ndf 666.7 / 32
p0 1495 ± 1.853
1600
1550
1500
1450
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

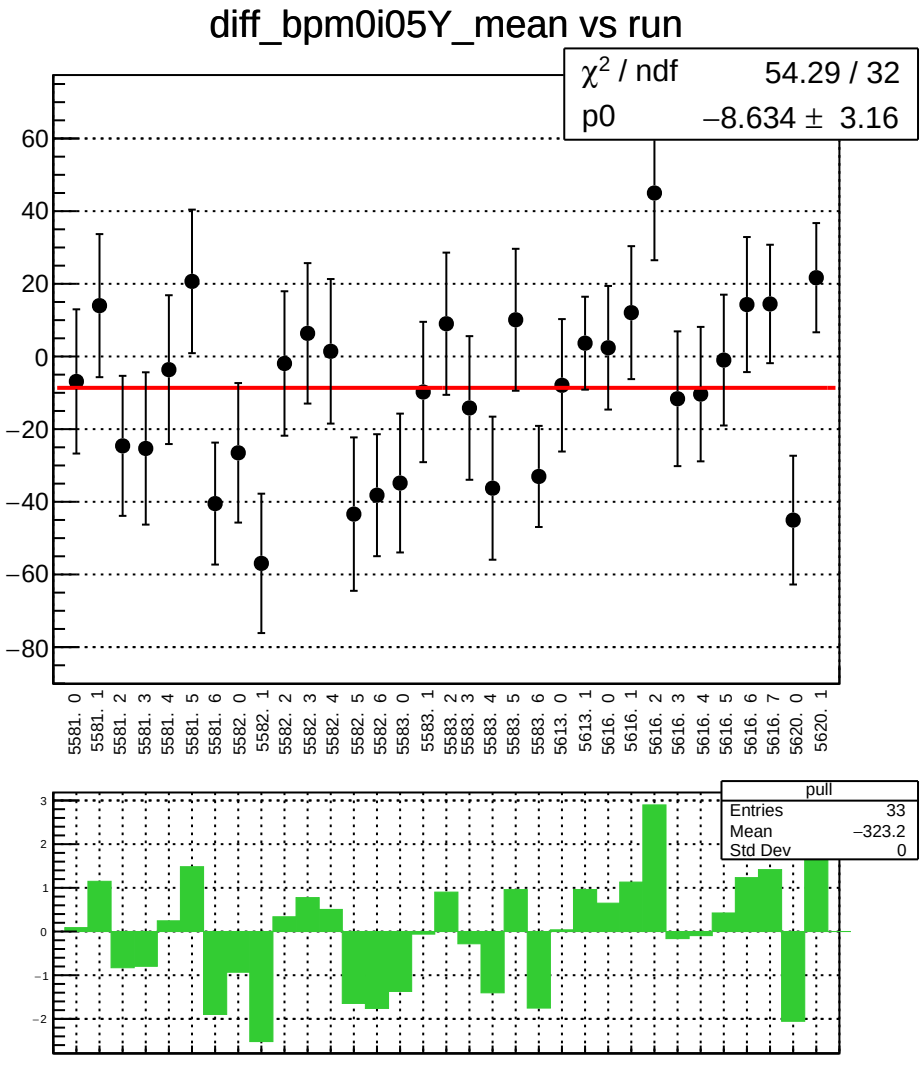

diff_bpm0i02aY_mean vs run
χ² / ndf 28.93 / 32
p0 28.33 ± 2.898
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 12.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.0257
Std Dev 0.9359
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

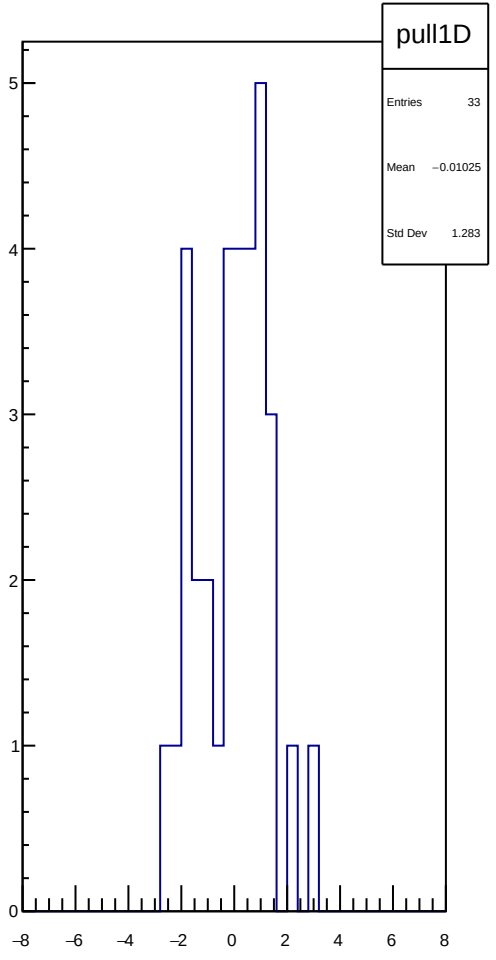

diff_bpm0i02aY_rms vs run
χ² / ndf 635.1 / 32
p0 1654 ± 2.049
1800
1750
1700
1650
1600
1550
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

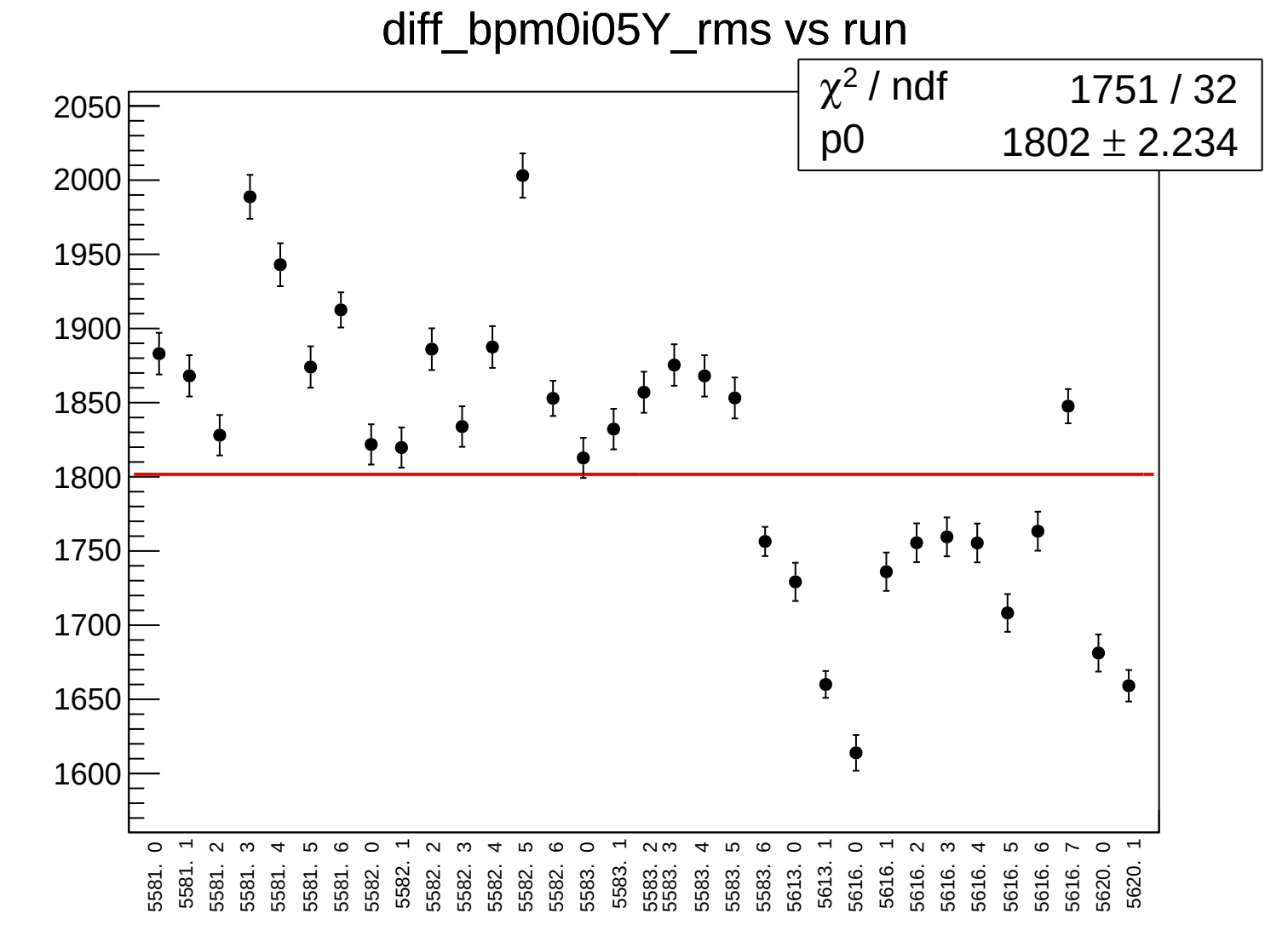

diff_bpm0i05X_mean vs run
χ² / ndf 41.73 / 32
p0 −19.77 ± 2.84
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −399.1
Std Dev 0
2
1
0
−1
−2

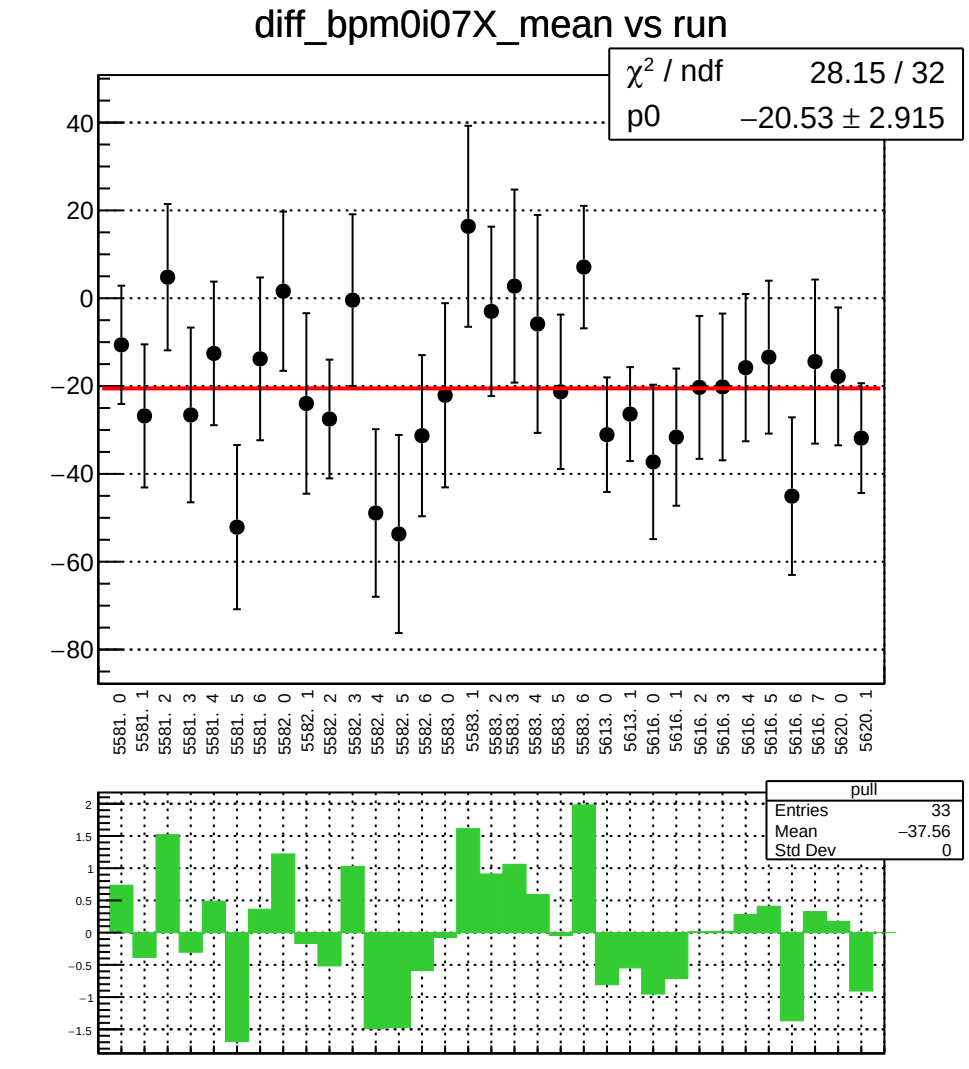

pull1D
Entries 33
Mean −0.005016
Std Dev 1.124
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

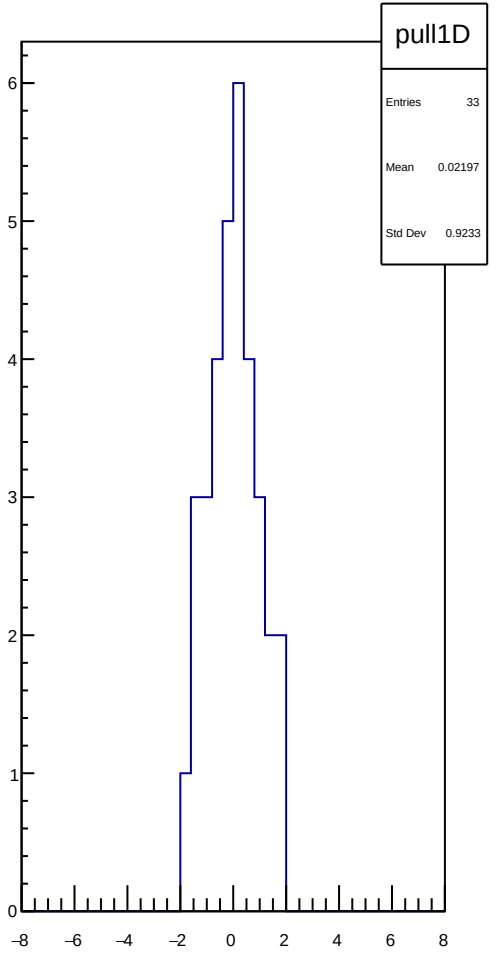

diff_bpm0i05X_rms vs run
χ² / ndf 2059 / 32
p0 1619 ± 2.008
1850
1800
1750
1700
1650
1600
1550
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

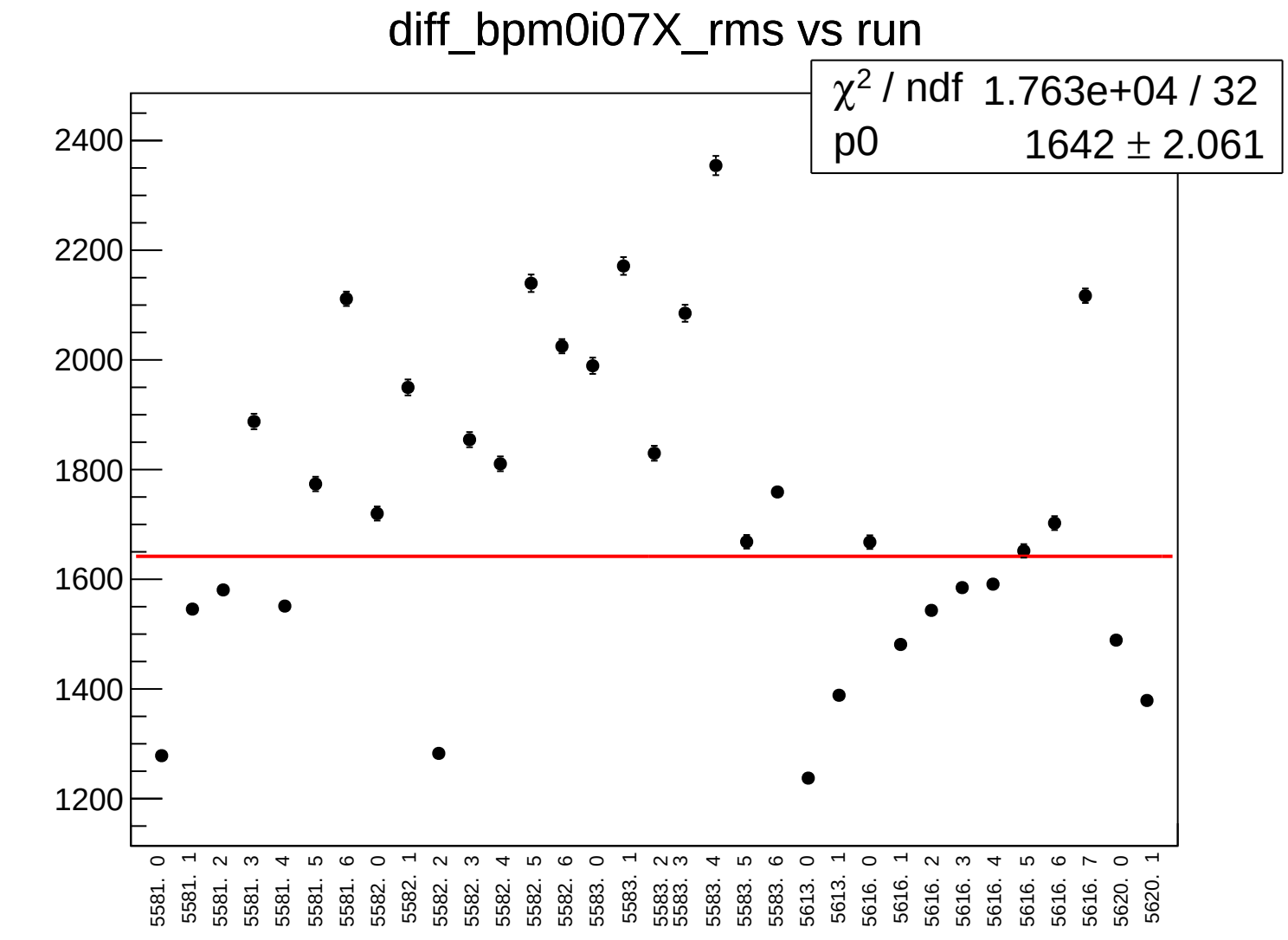

diff_bpm0i05Y_mean vs run
χ² / ndf 54.29 / 32
p0 −8.634 ± 3.16
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −323.2
Std Dev 0
3
2
1
0
−1
−2

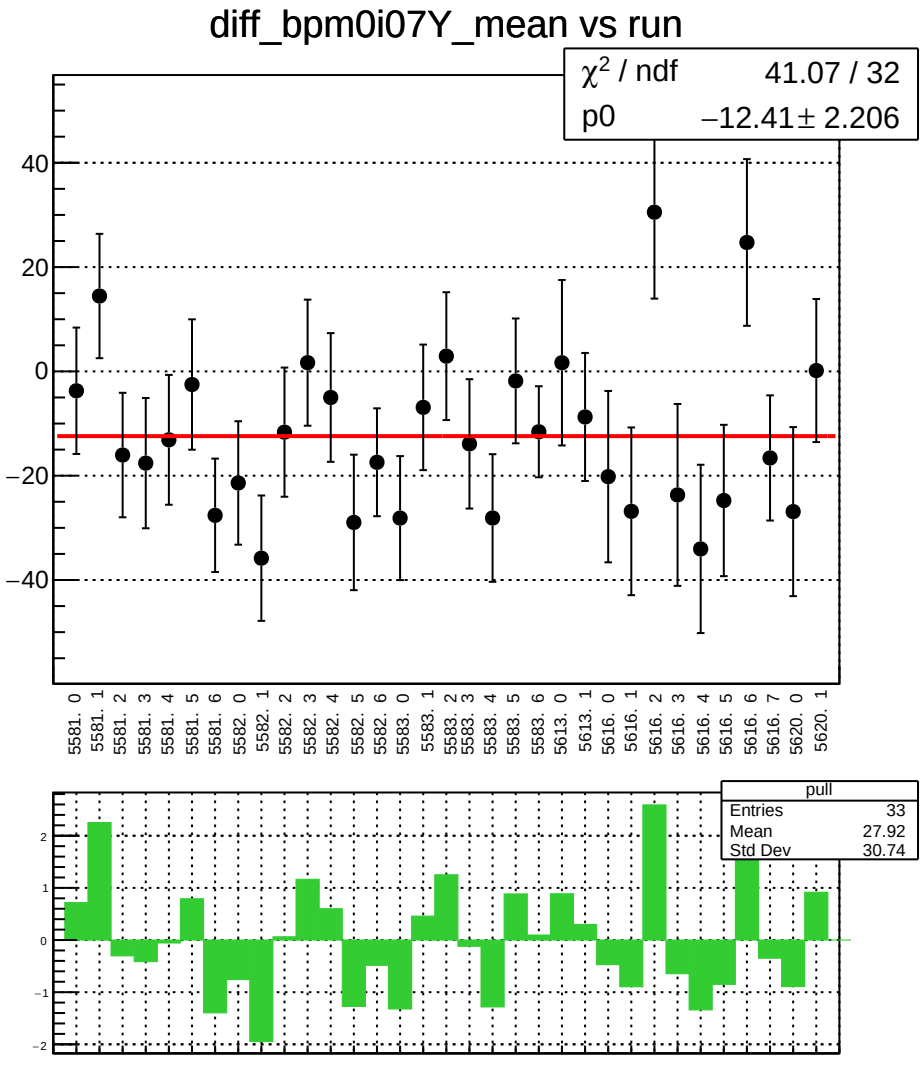

pull1D
Entries 33
Mean −0.01025
Std Dev 1.283
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

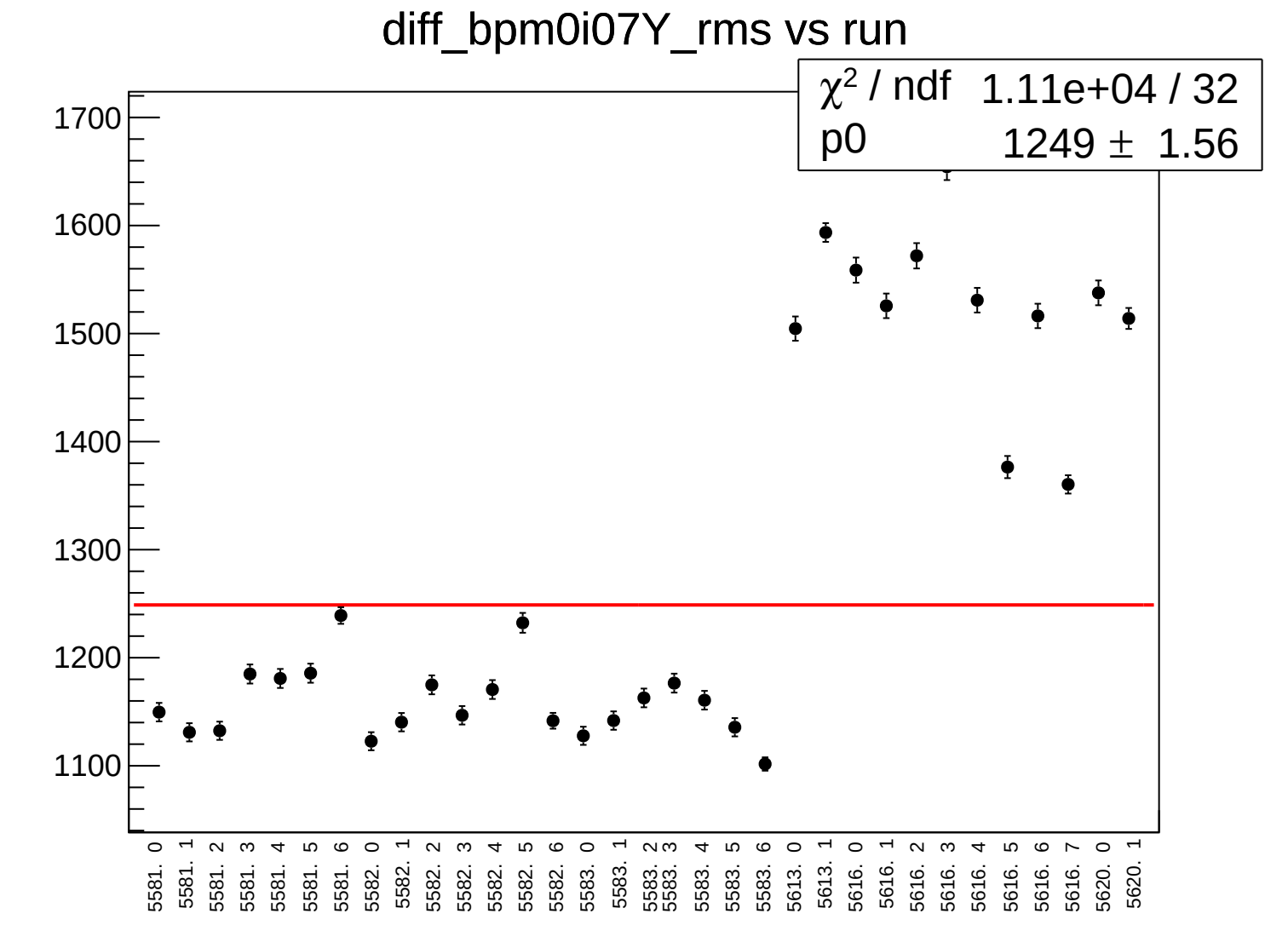

diff_bpm0i05Y_rms vs run
χ² / ndf 1751 / 32
p0 1802 ± 2.234
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

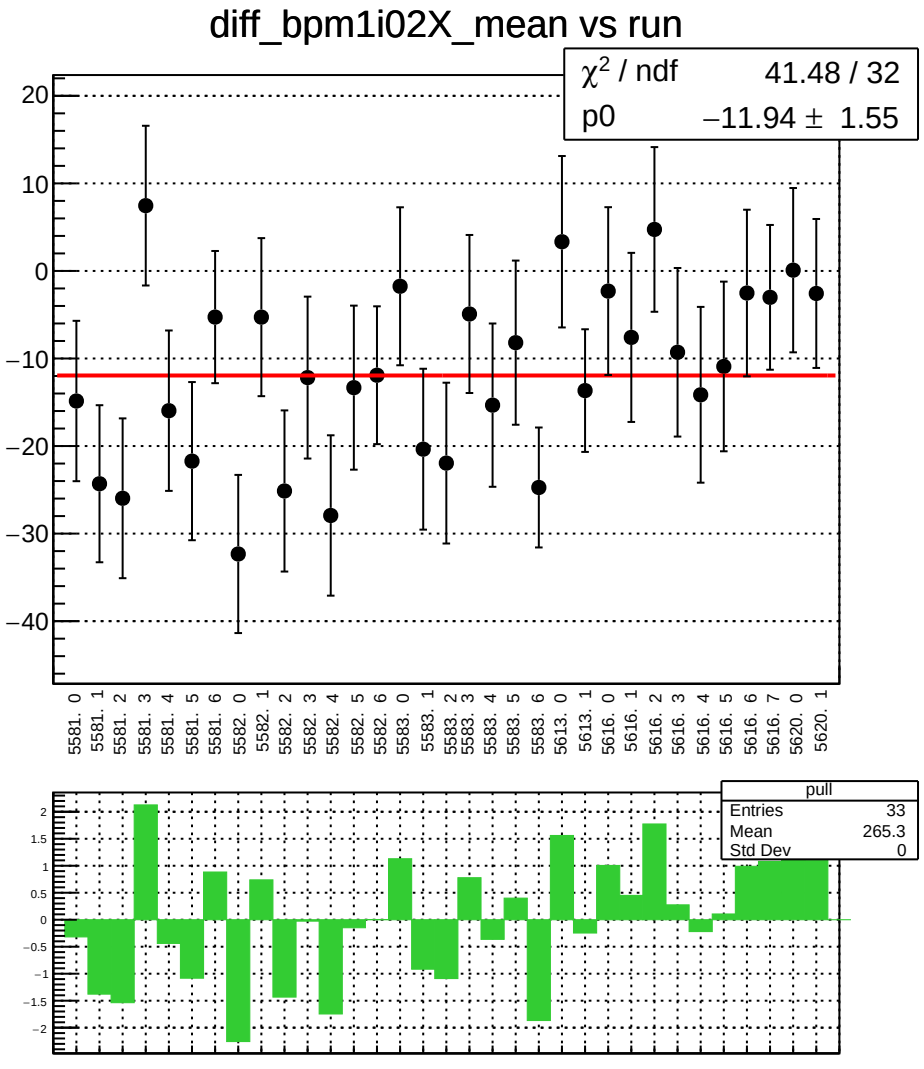

diff_bpm0i07X_mean vs run
χ² / ndf 28.15 / 32
p0 −20.53 ± 2.915
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −37.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

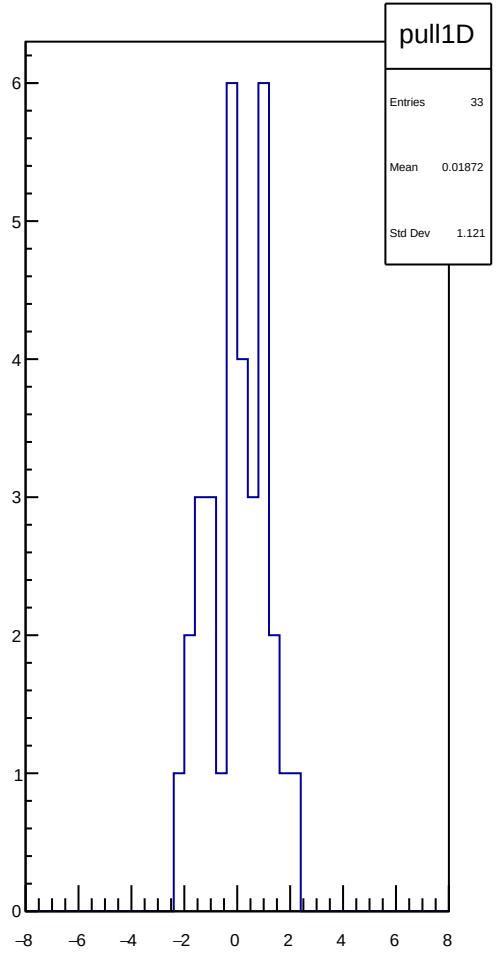

pull1D
Entries 33
Mean 0.02197
Std Dev 0.9233
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

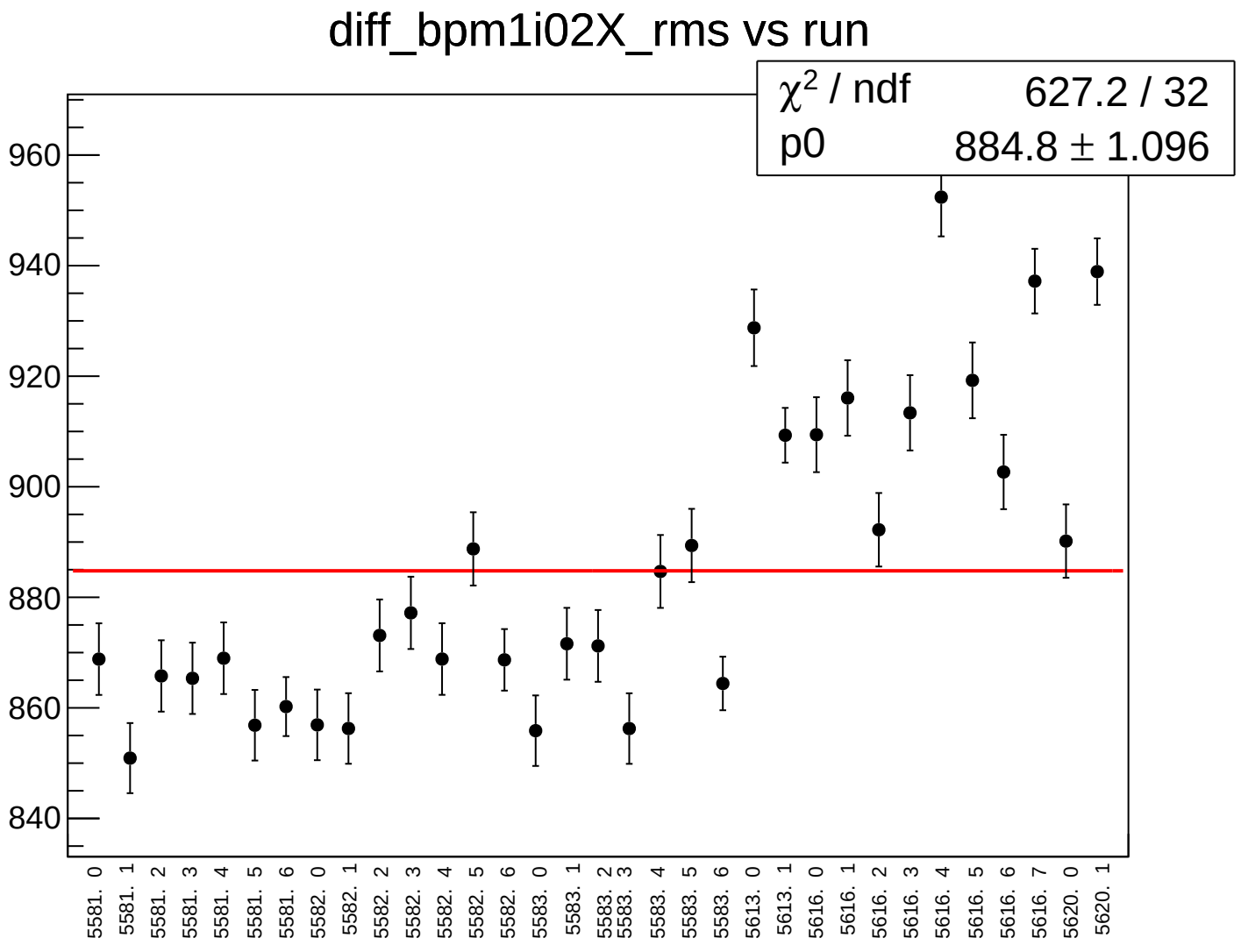

diff_bpm0i07X_rms vs run
χ² / ndf 1.763e+04 / 32
p0 1642 ± 2.061
2400
2200
2000
1800
1600
1400
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

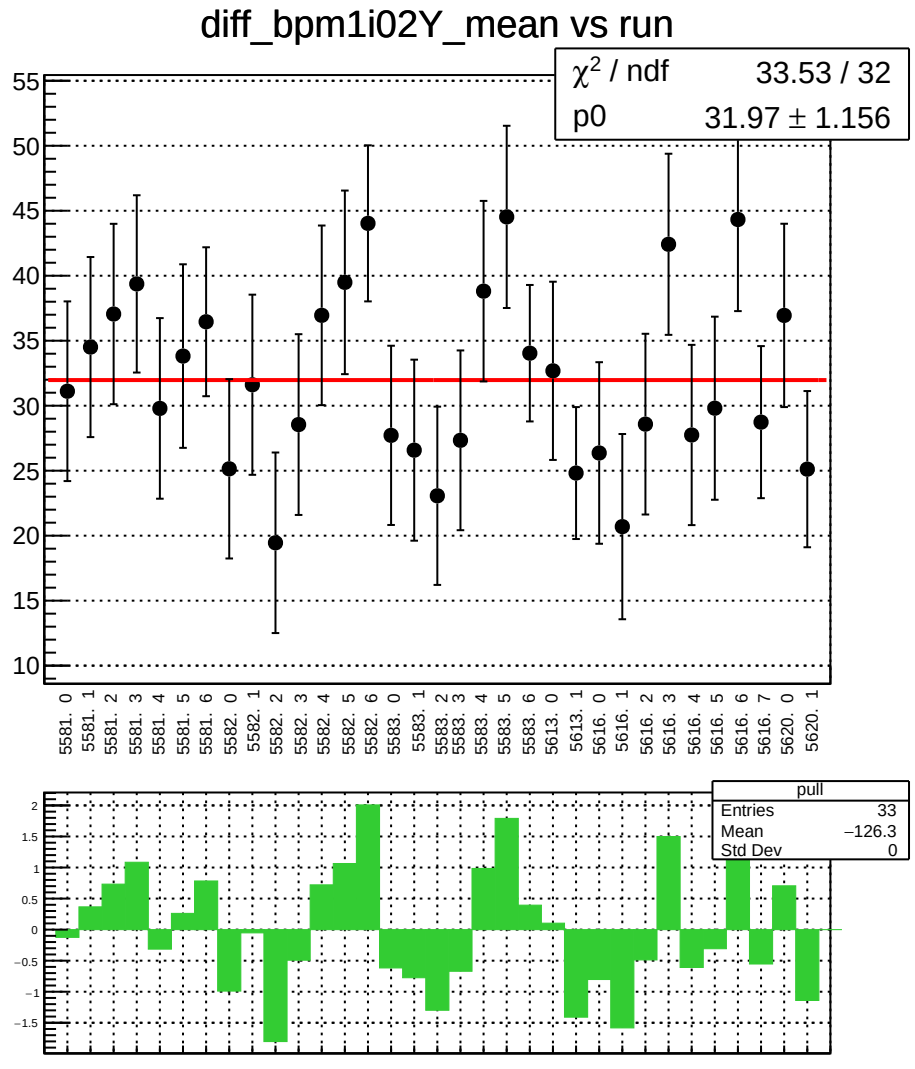

diff_bpm0i07Y_mean vs run
χ² / ndf 41.07 / 32
p0 −12.41± 2.206
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.92
Std Dev 30.74
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.0149
Std Dev 1.116
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

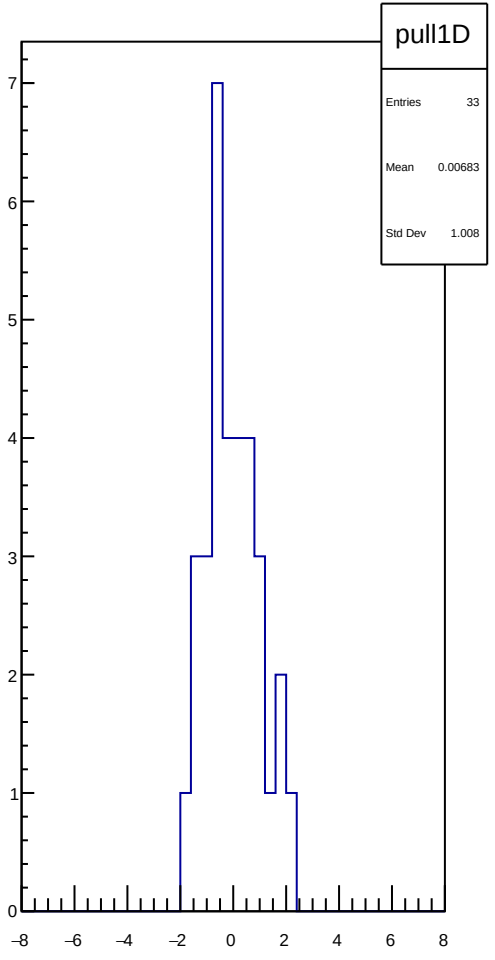

diff_bpm0i07Y_rms vs run
χ² / ndf 1.11e+04 / 32
p0 1249 ± 1.56
1700
1600
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

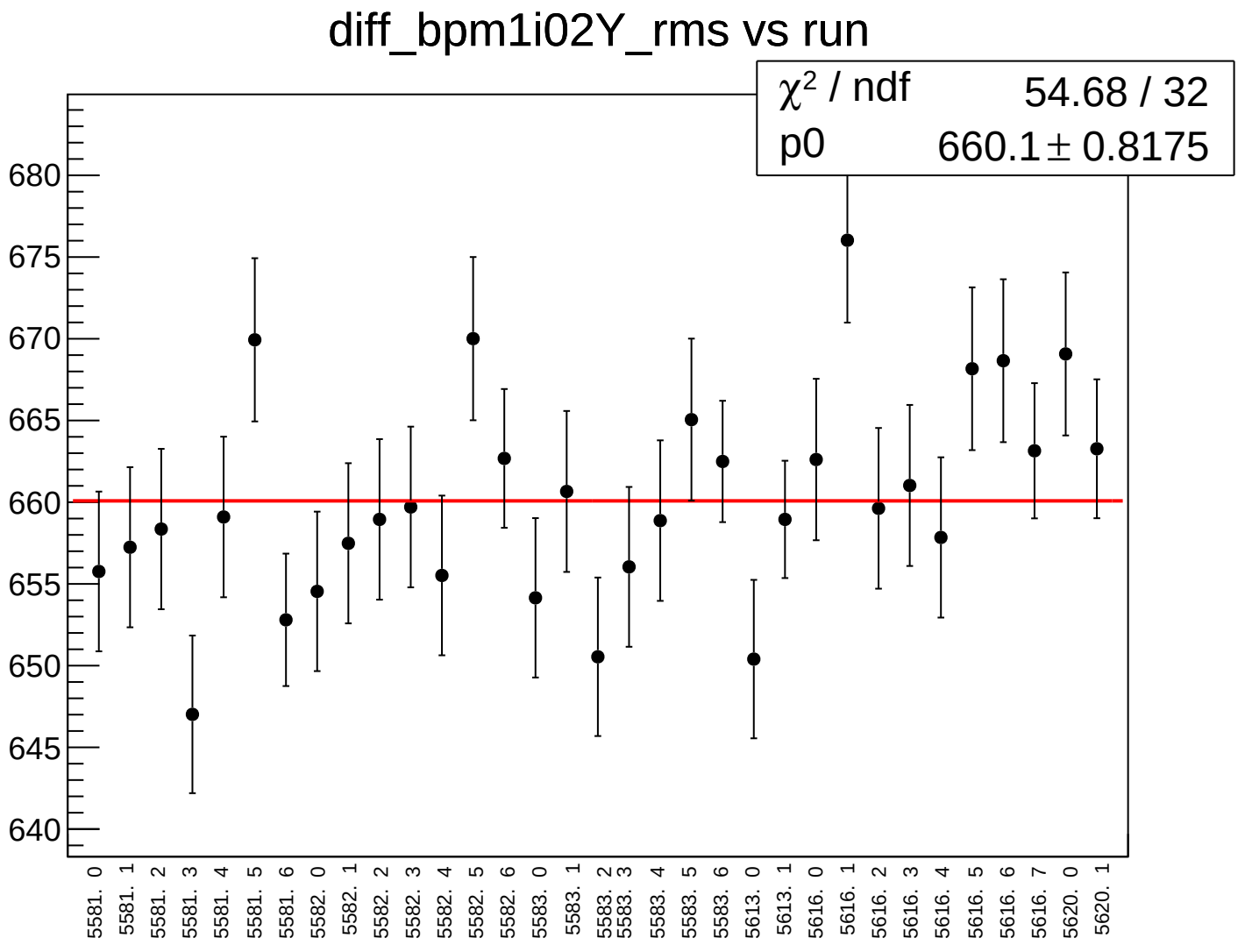

diff_bpm1i02X_mean vs run
χ² / ndf 41.48 / 32
p0 −11.94 ± 1.55
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 265.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

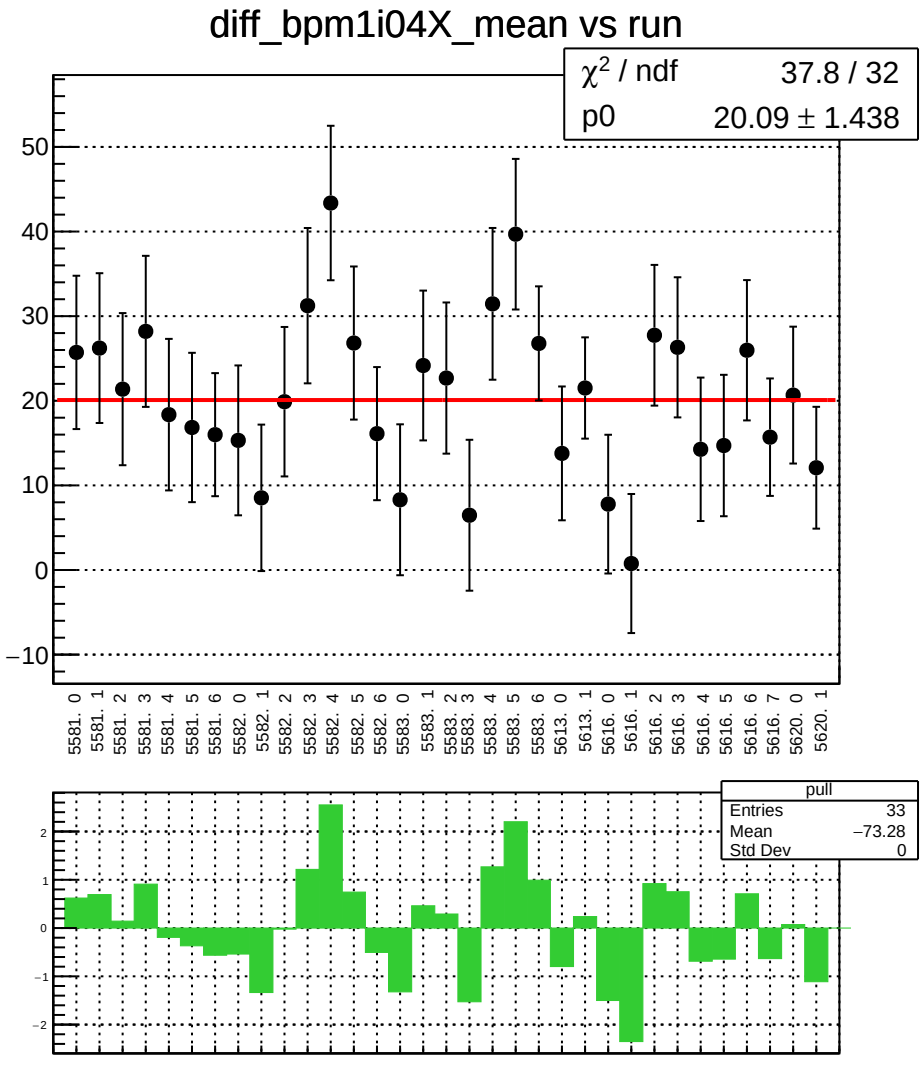

pull1D
Entries 33
Mean 0.01872
Std Dev 1.121
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

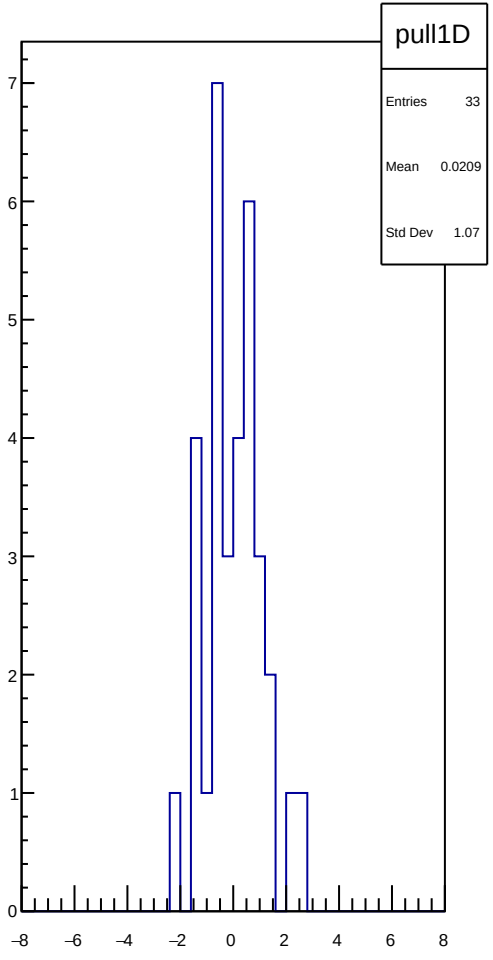

diff_bpm1i02X_rms vs run
χ² / ndf 627.2 / 32
p0 884.8 ± 1.096
960
940
920
900
880
860
840
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

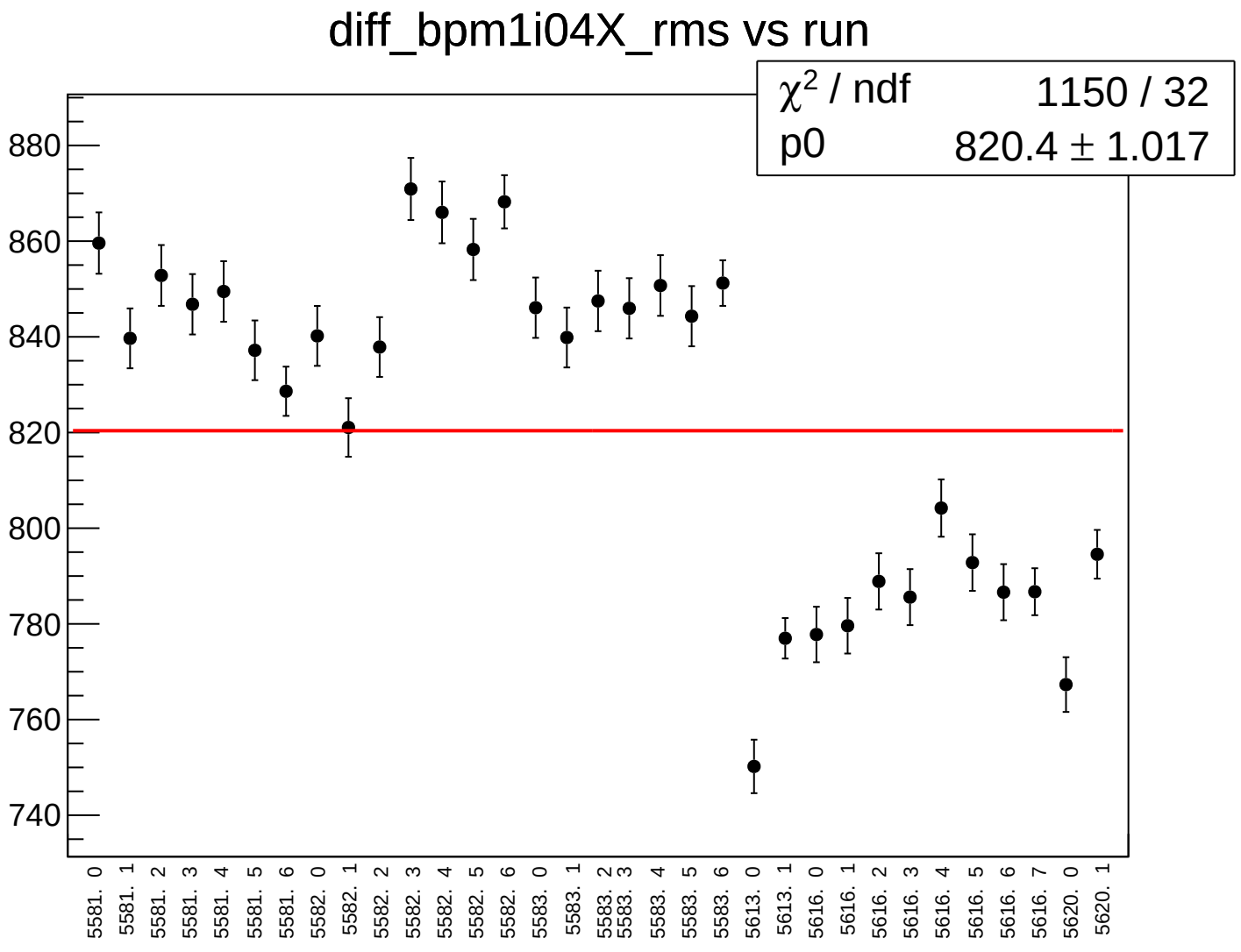

diff_bpm1i02Y_mean vs run
χ² / ndf 33.53 / 32
p0 31.97 ± 1.156
pull
Entries 33
Mean −126.3
Std Dev 0

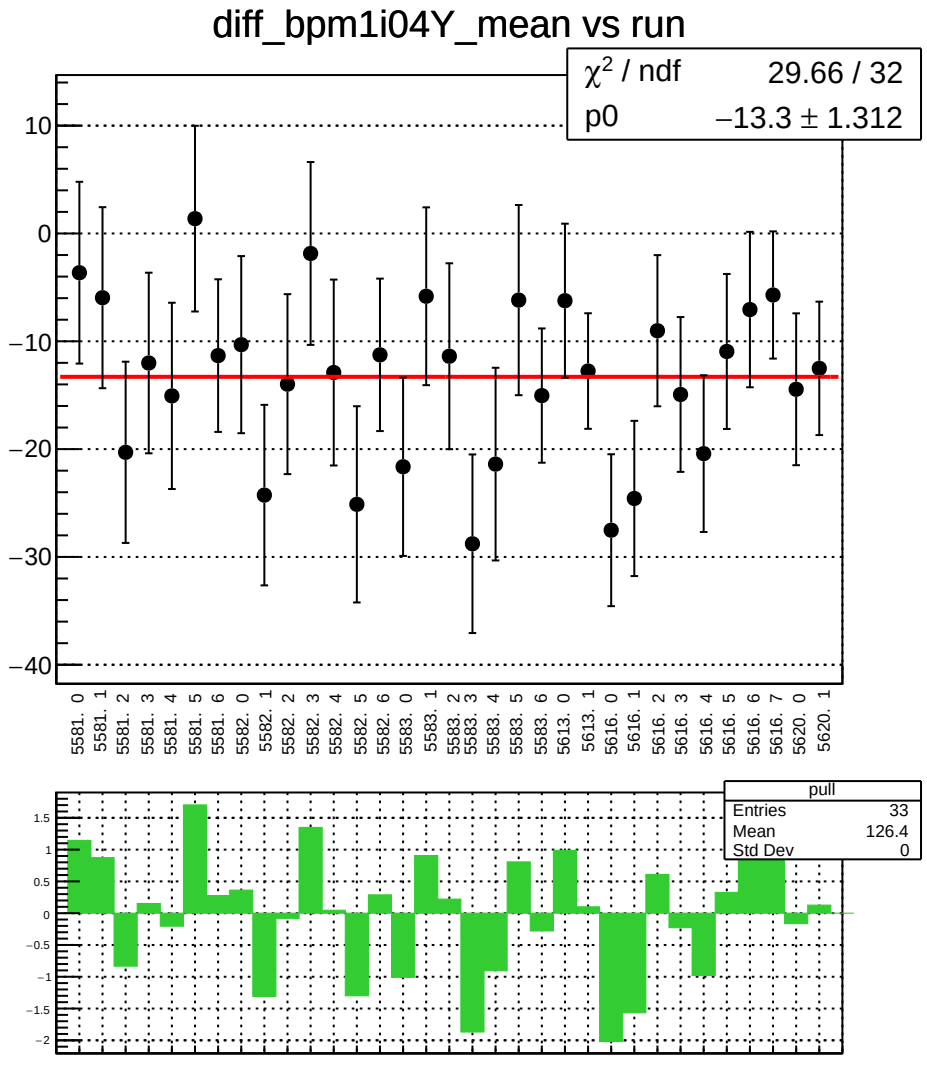

pull1D
Entries 33
Mean 0.00683
Std Dev 1.008

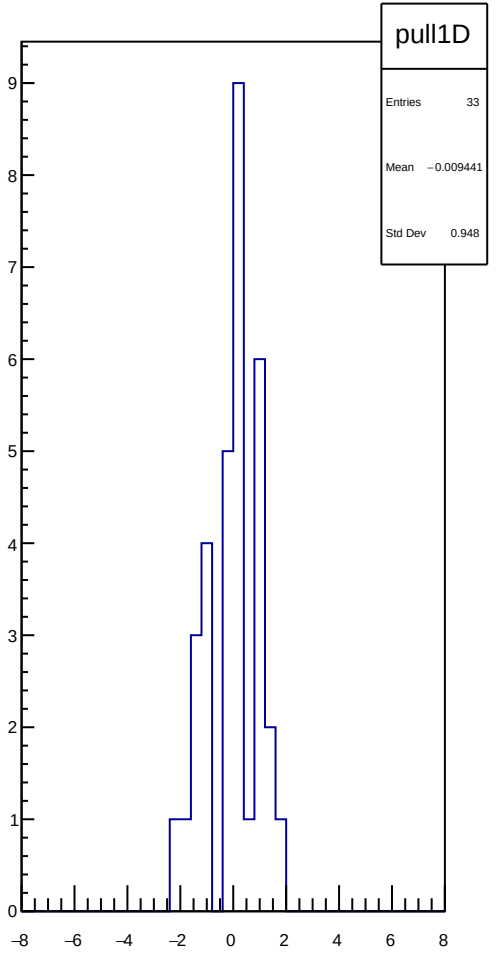

diff_bpm1i02Y_rms vs run
χ² / ndf 54.68 / 32
p0 660.1 ± 0.8175
680
675
670
665
660
655
650
645
640
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

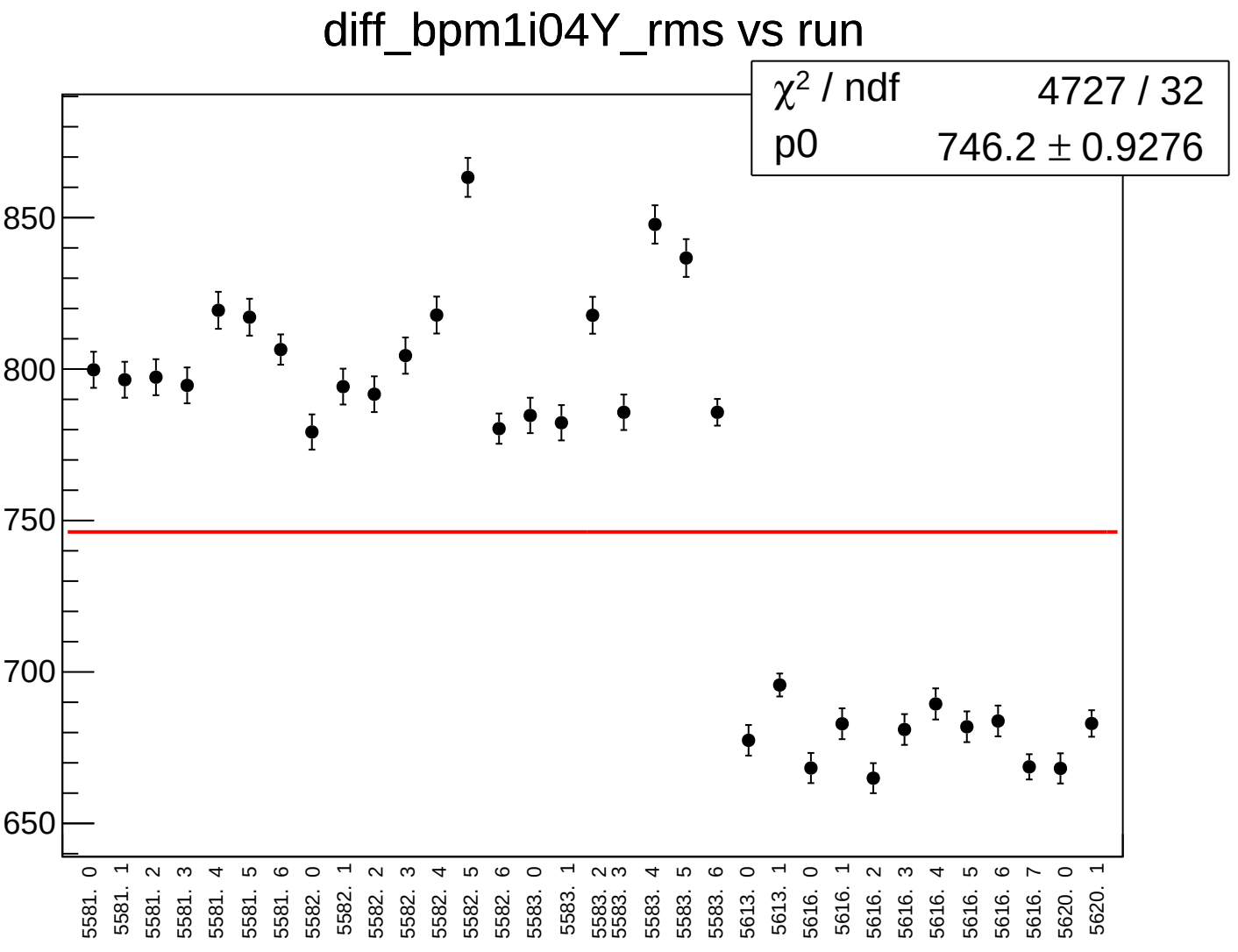

diff_bpm1i04X_mean vs run
χ² / ndf 37.8 / 32
p0 20.09 ± 1.438
50
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −73.28
Std Dev 0
2
1
0
−1
−2

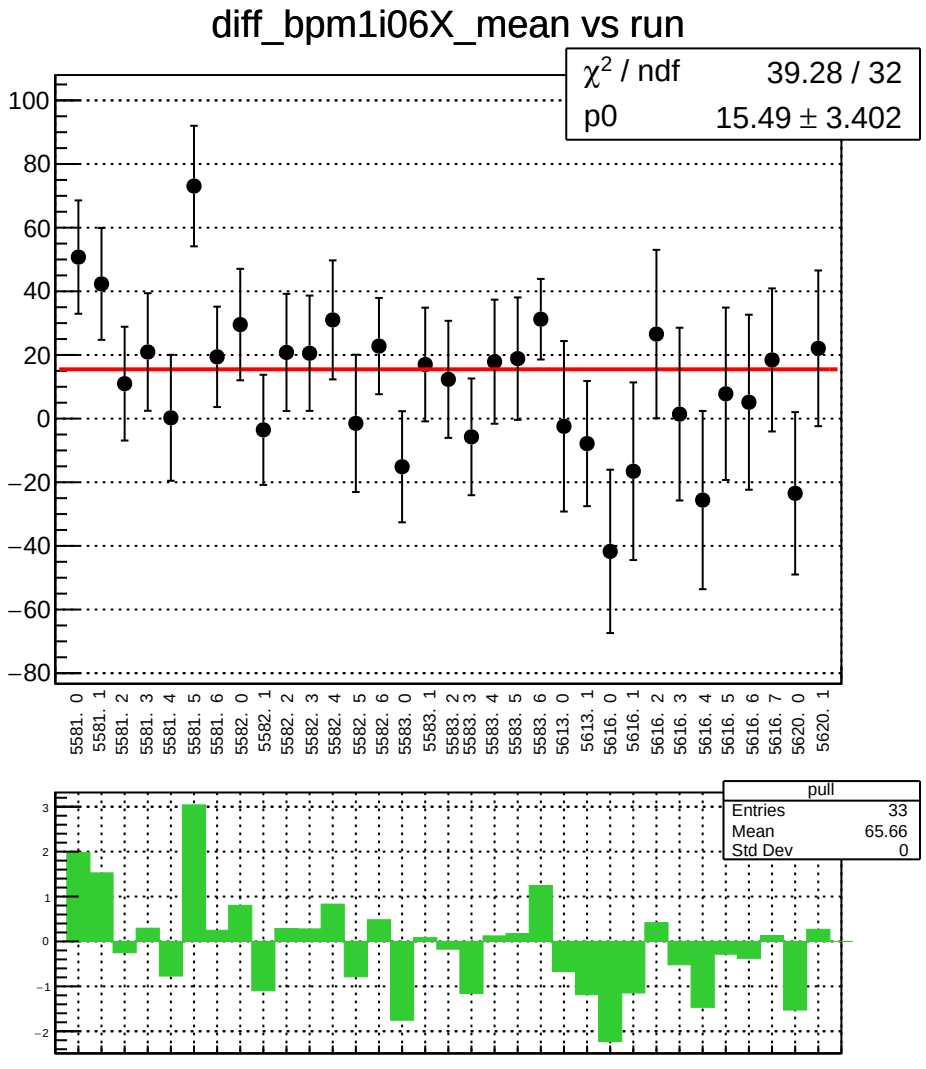

pull1D
Entries 33
Mean 0.0209
Std Dev 1.07
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

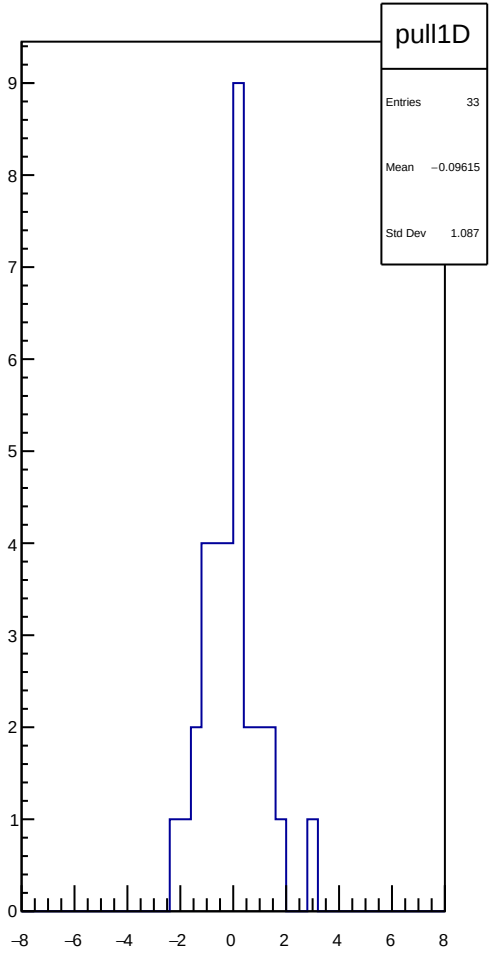

diff_bpm1i04X_rms vs run
χ² / ndf 1150 / 32
p0 820.4 ± 1.017
880
860
840
820
800
780
760
740
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

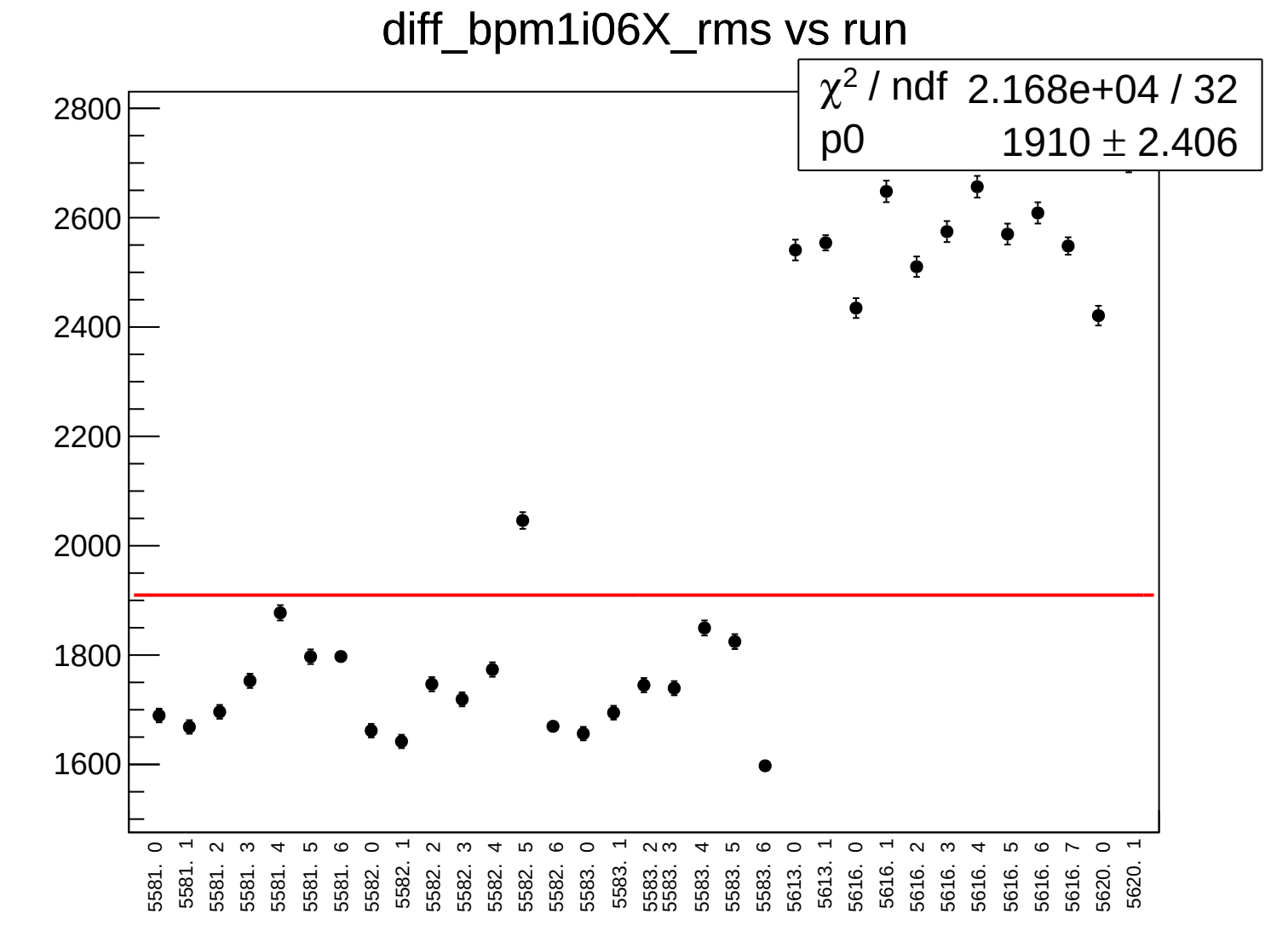

diff_bpm1i04Y_mean vs run
χ² / ndf 29.66 / 32
p0 −13.3 ± 1.312
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 126.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

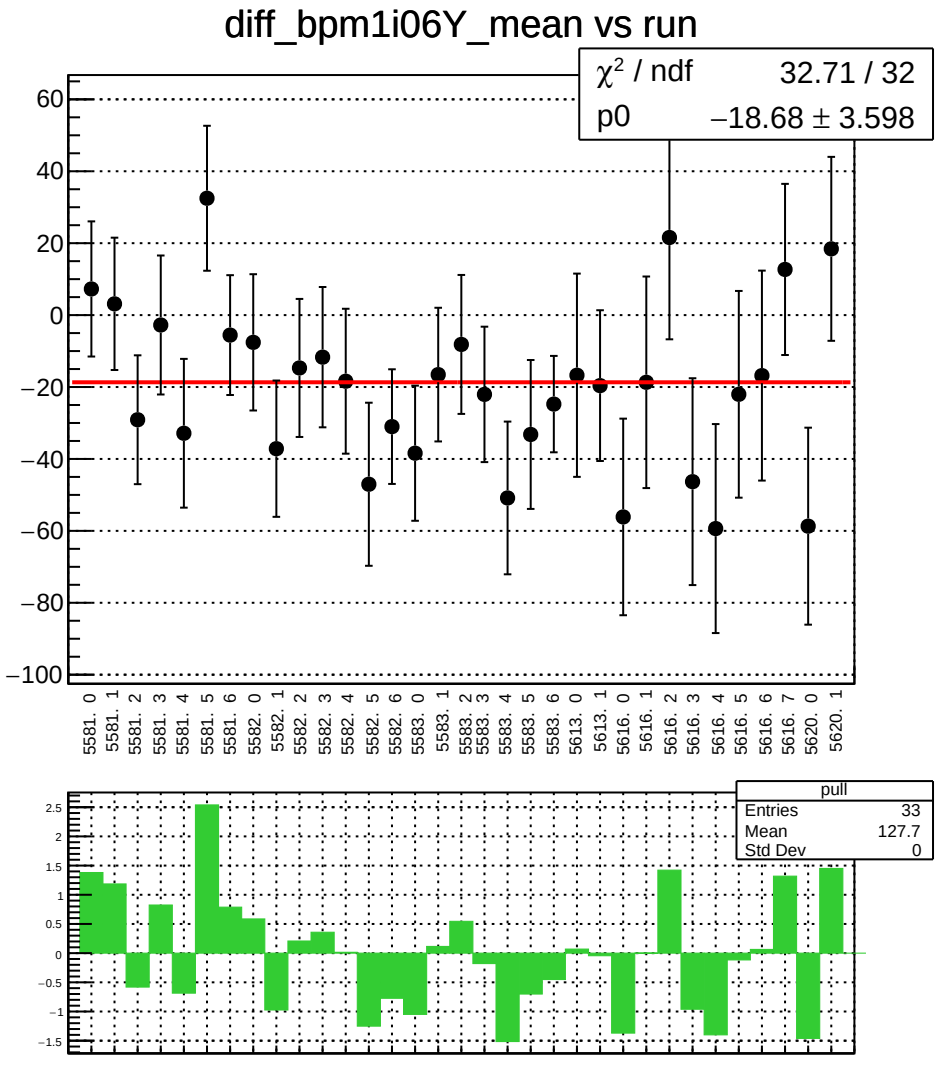

pull1D
Entries 33
Mean −0.009441
Std Dev 0.948
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

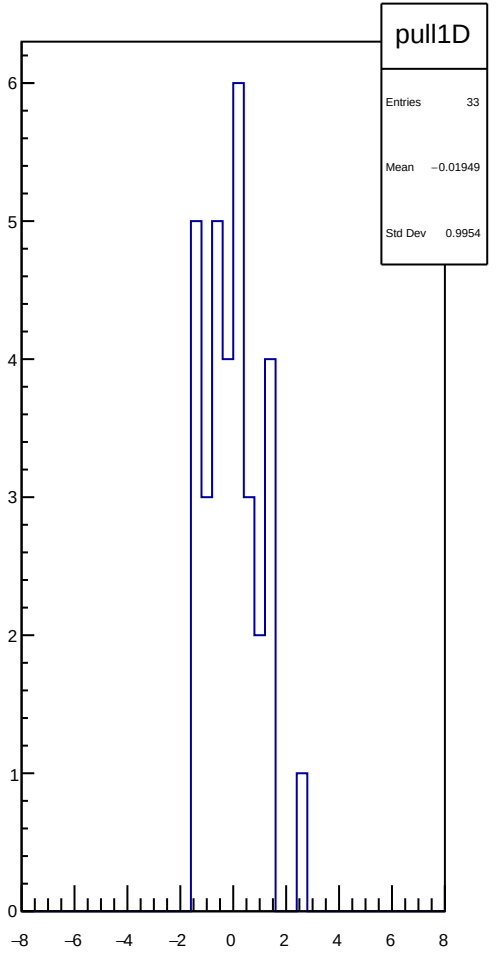

diff_bpm1i04Y_rms vs run
χ² / ndf 4727 / 32
p0 746.2 ± 0.9276
850
800
750
700
650
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

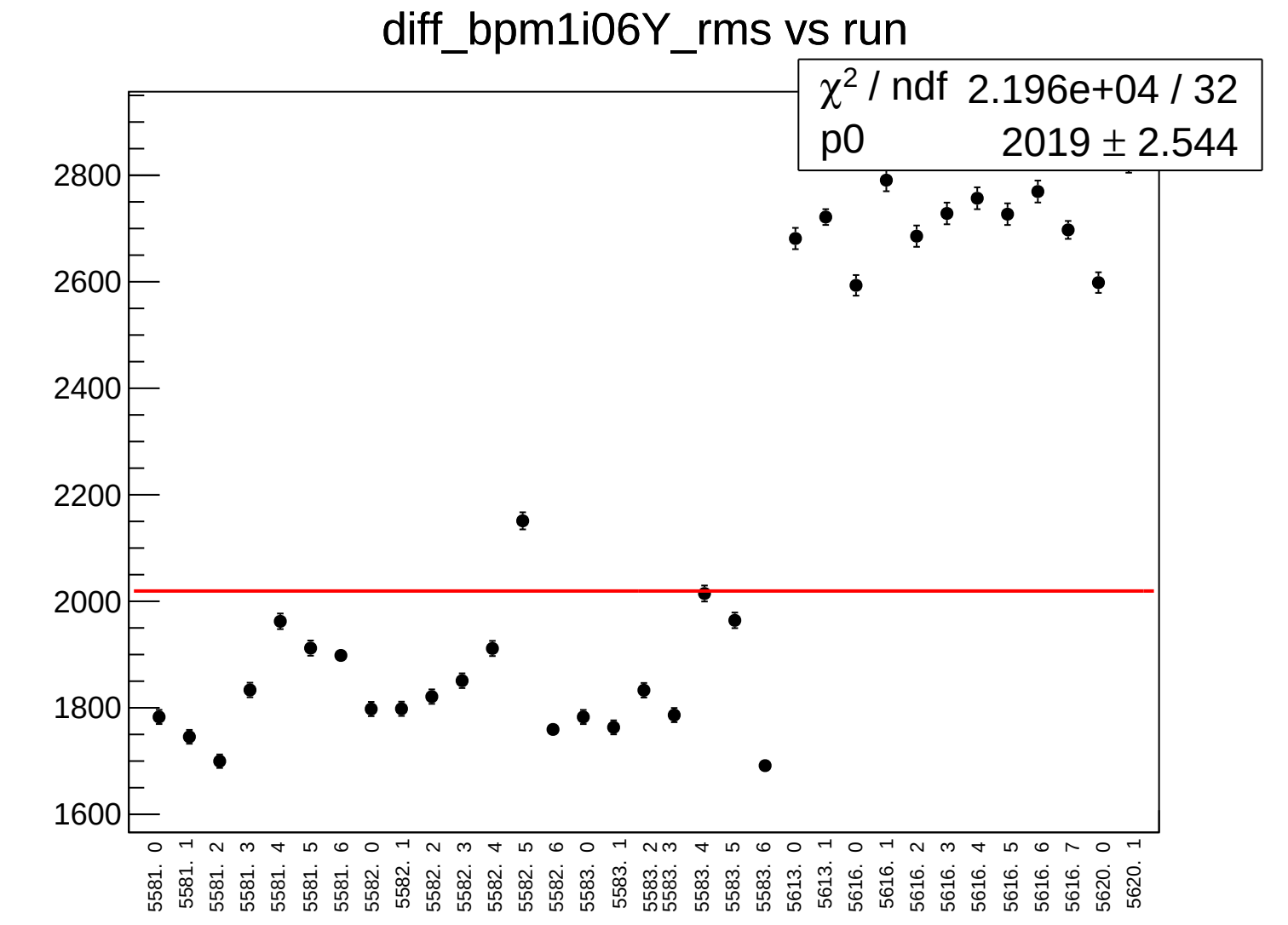

diff_bpm1i06X_mean vs run
χ² / ndf 39.28 / 32
p0 15.49 ± 3.402
pull
Entries 33
Mean 65.66
Std Dev 0

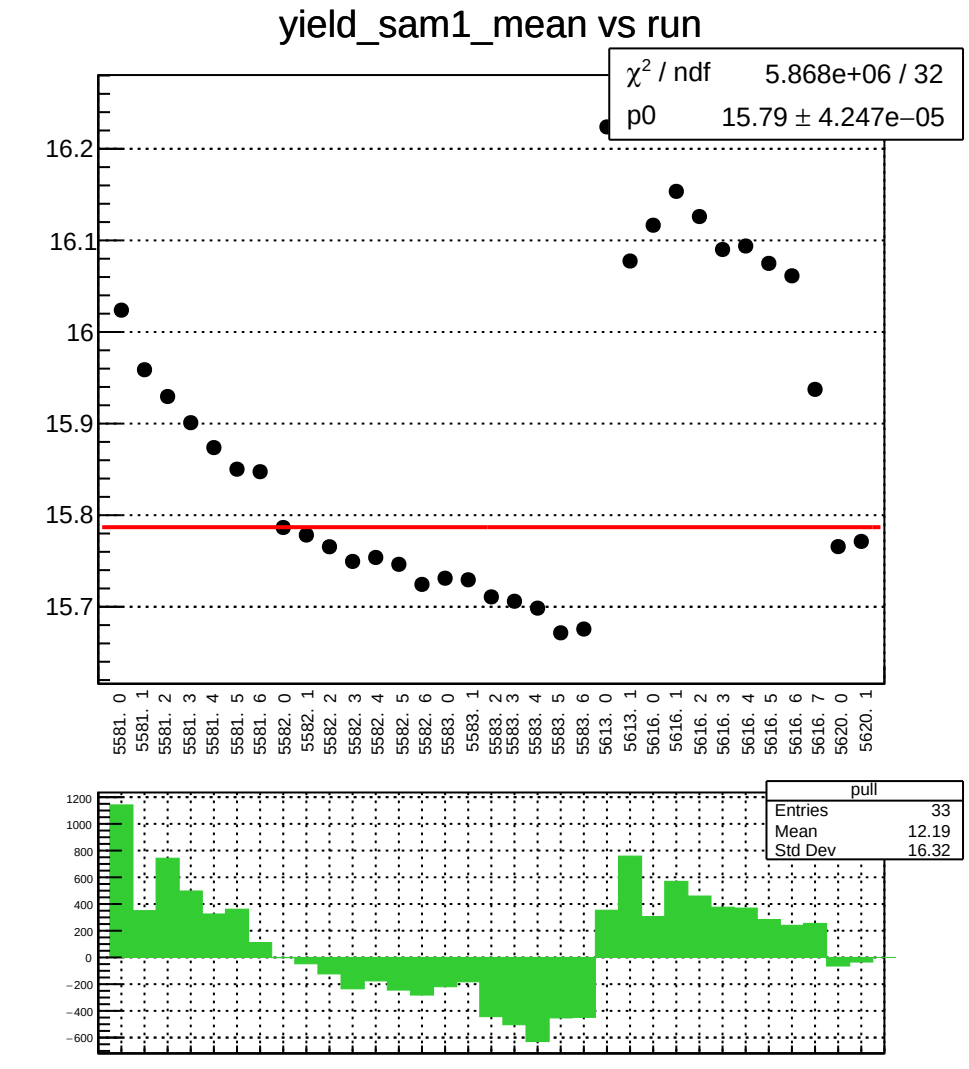

pull1D
Entries 33
Mean −0.09615
Std Dev 1.087

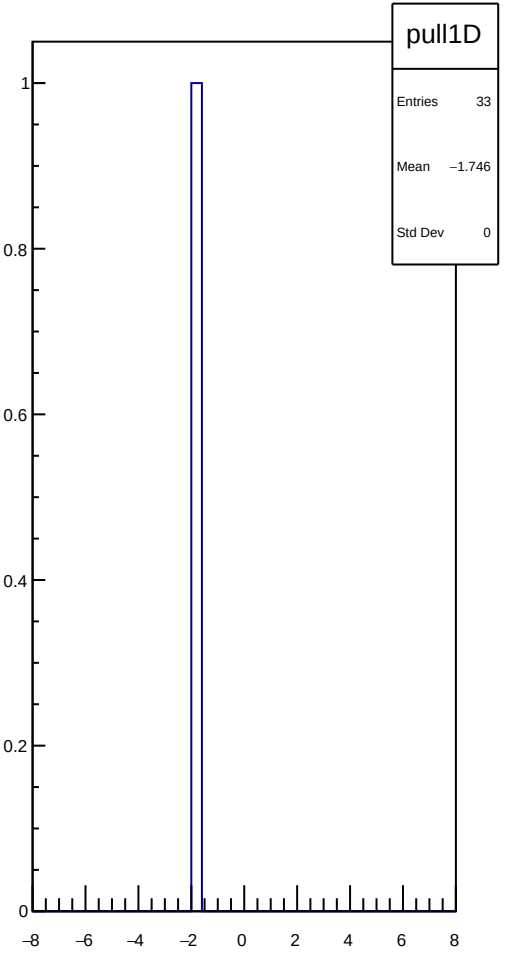

diff_bpm1i06X_rms vs run
χ² / ndf 2.168e+04 / 32
p0 1910 ± 2.406
2800
2600
2400
2200
2000
1800
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

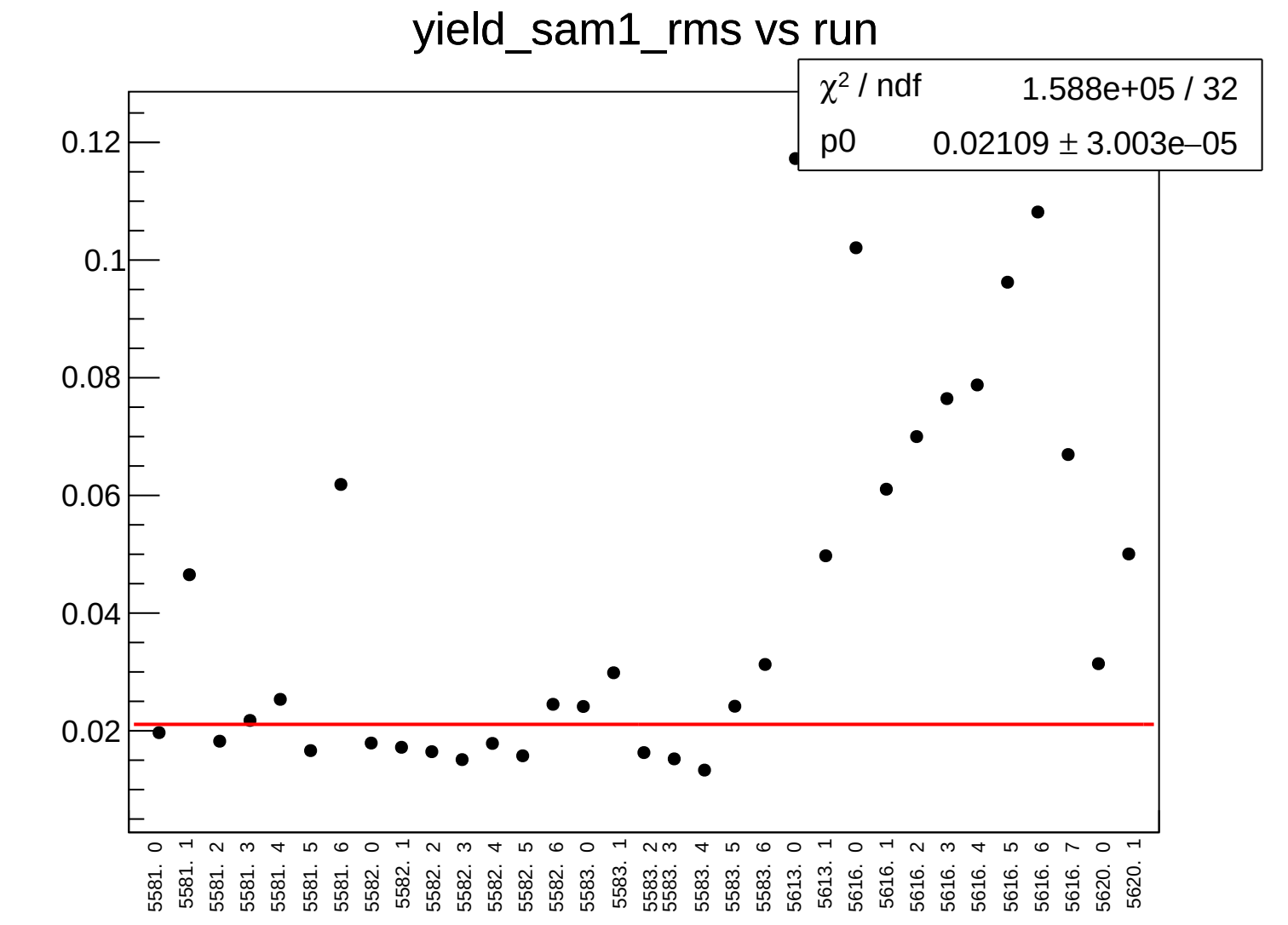

diff_bpm1i06Y_mean vs run
χ² / ndf 32.71 / 32
p0 −18.68 ± 3.598
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 127.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

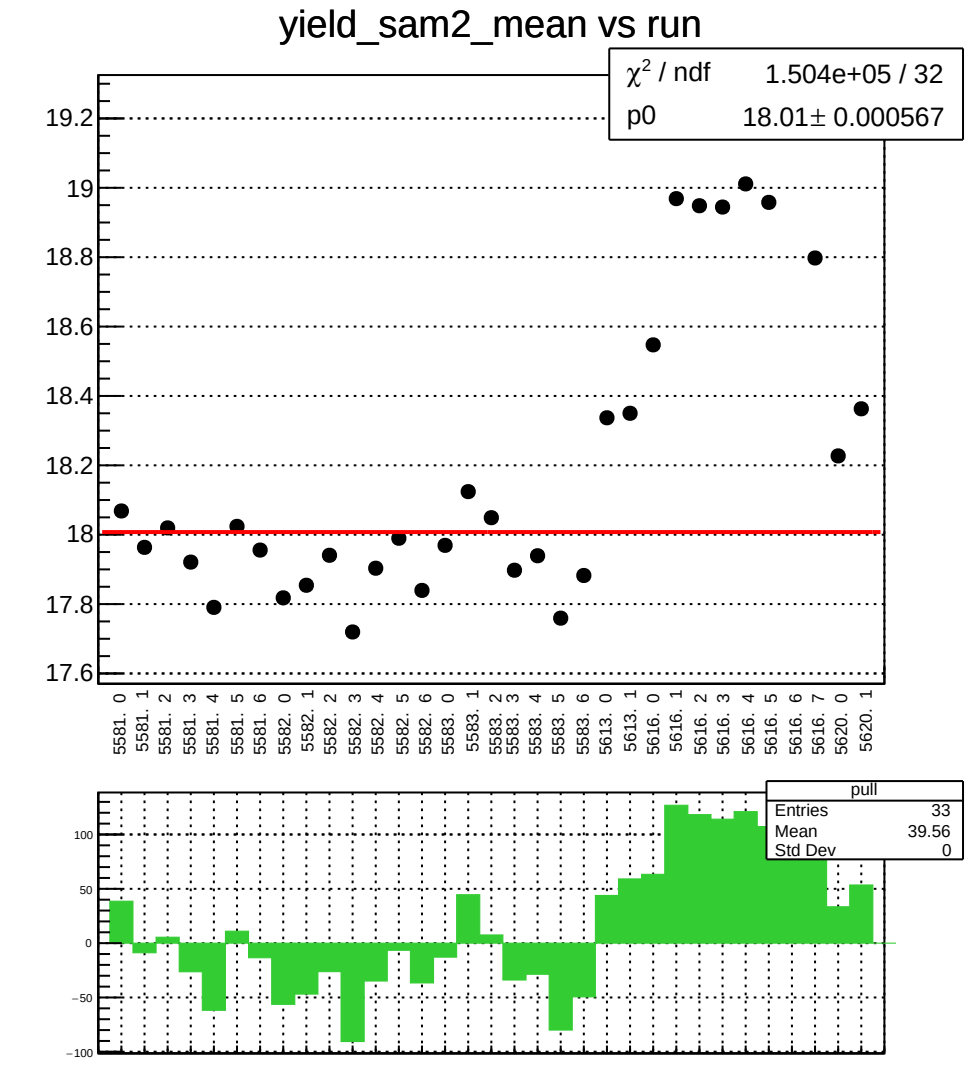

pull1D
Entries 33
Mean −0.01949
Std Dev 0.9954
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

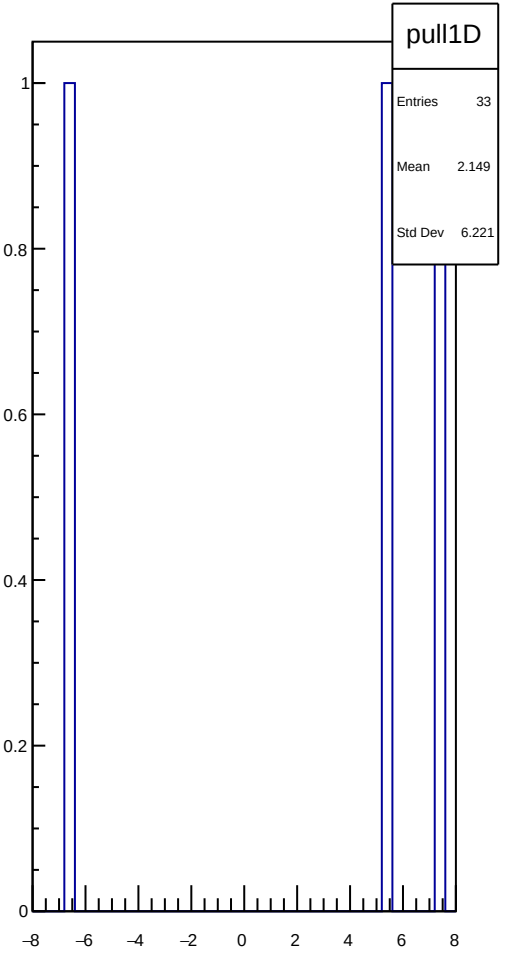

diff_bpm1i06Y_rms vs run
χ² / ndf 2.196e+04 / 32
p0 2019 ± 2.544
2800
2600
2400
2200
2000
1800
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

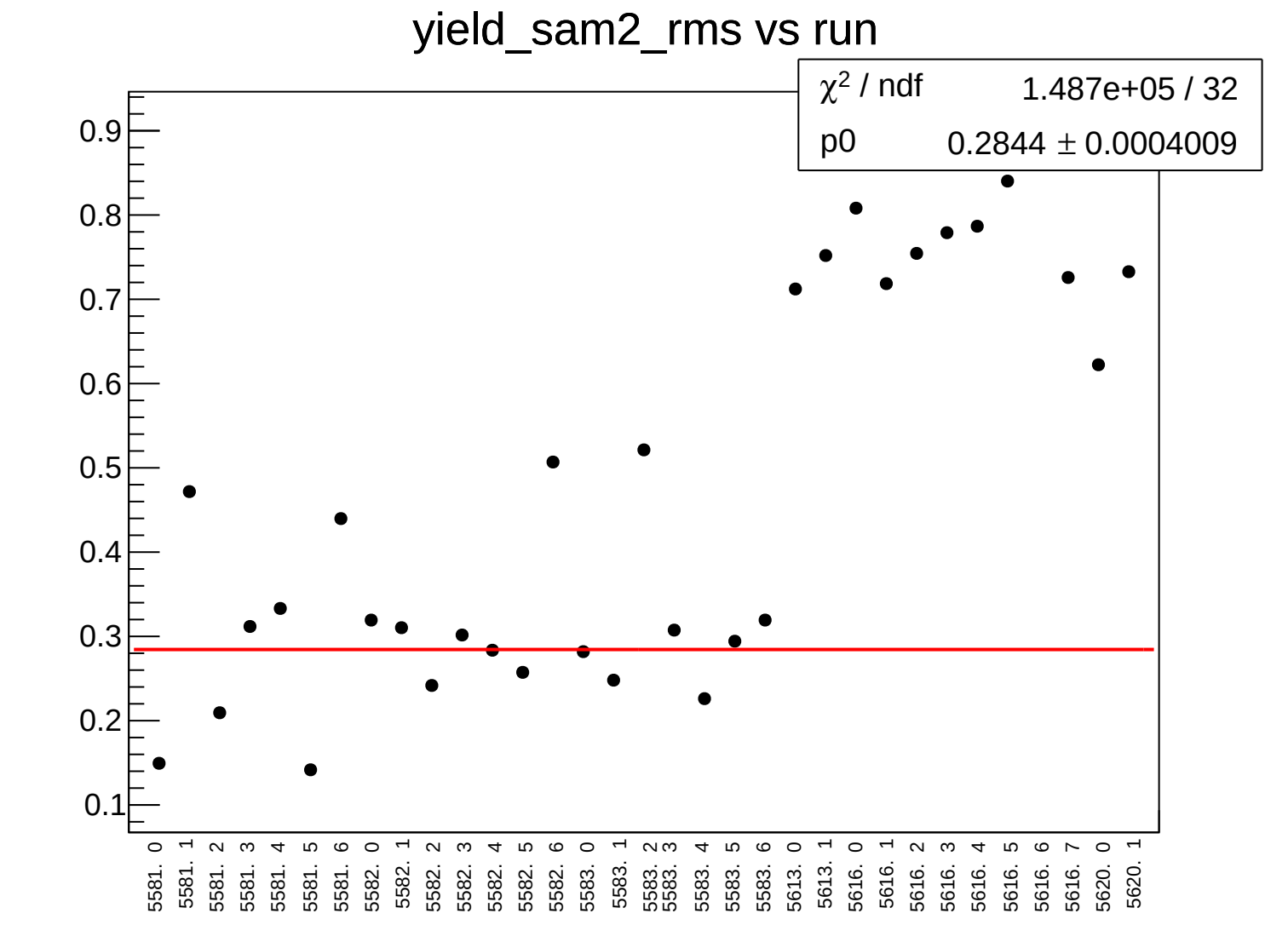

yield_sam1_mean vs run
χ² / ndf 5.868e+06 / 32
p0 15.79 ± 4.247e−05
16.2
16.1
16
15.9
15.8
15.7
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 12.19
Std Dev 16.32
1200
1000
800
600
400
200
0
−200
−400
−600

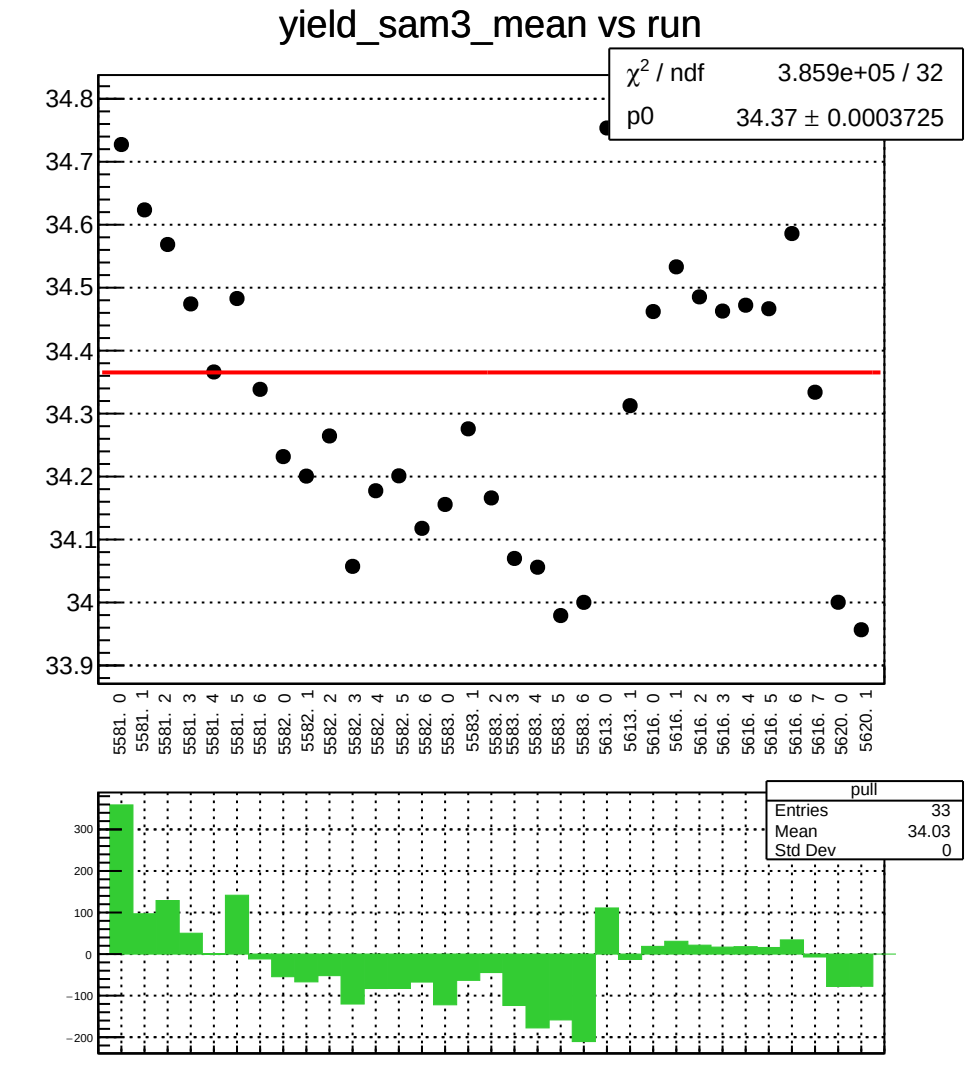

pull1D
Entries 33
Mean −1.746
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

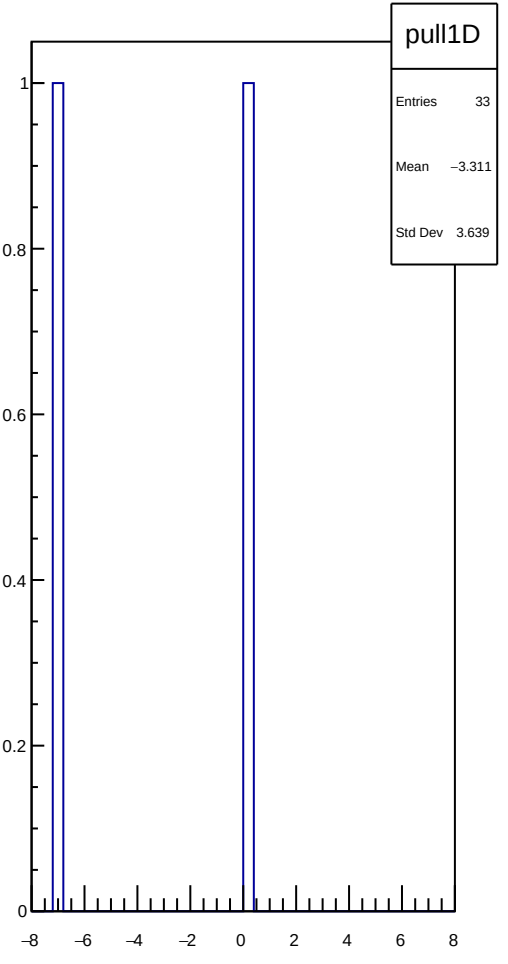

yield_sam1_rms vs run
χ² / ndf 1.588e+05 / 32
p0 0.02109 ± 3.003e−05
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

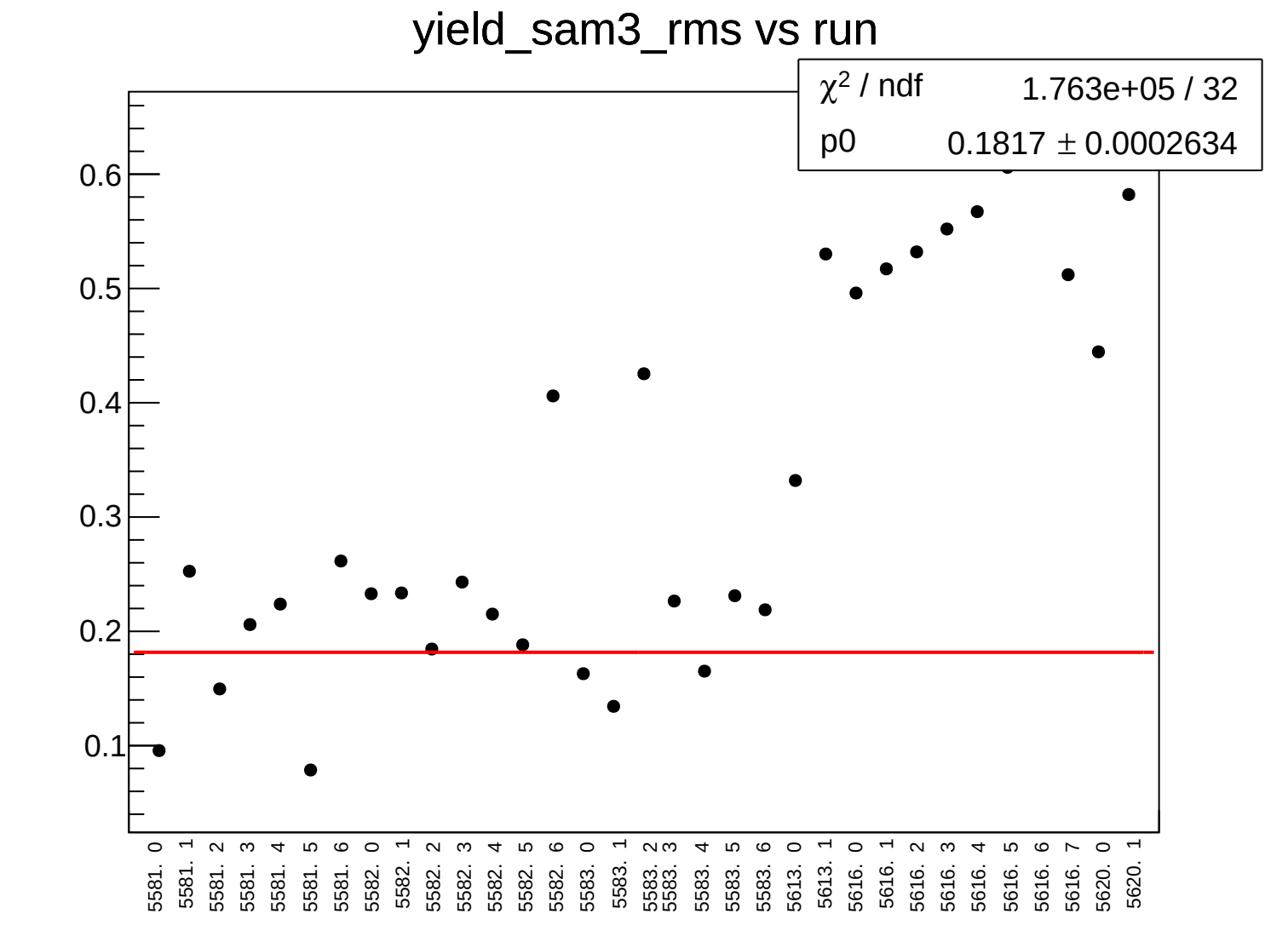

yield_sam2_mean vs run
χ² / ndf 1.504e+05 / 32
p0 18.01± 0.000567
19.2
19
18.8
18.6
18.4
18.2
18
17.8
17.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.56
Std Dev 0
100
50
0
−50
−100

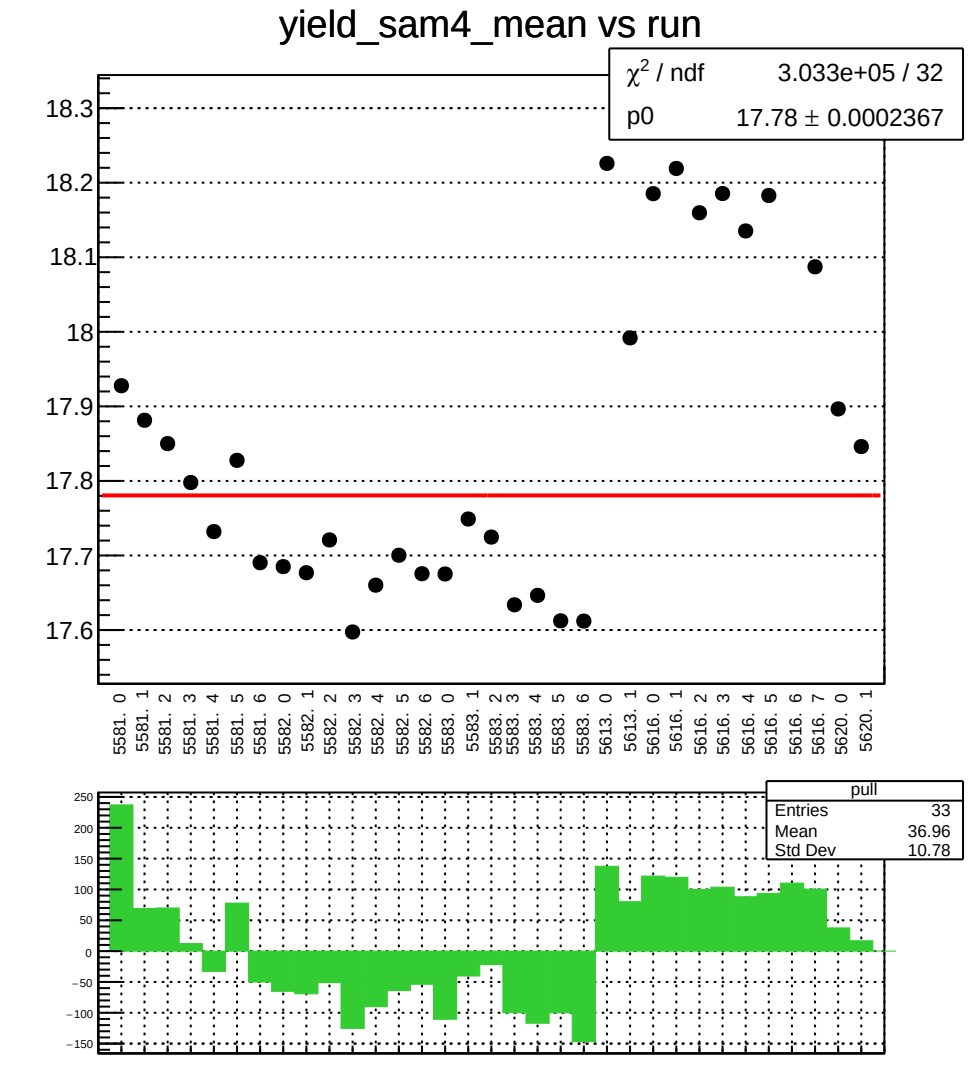

pull1D
Entries 33
Mean 2.149
Std Dev 6.221
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

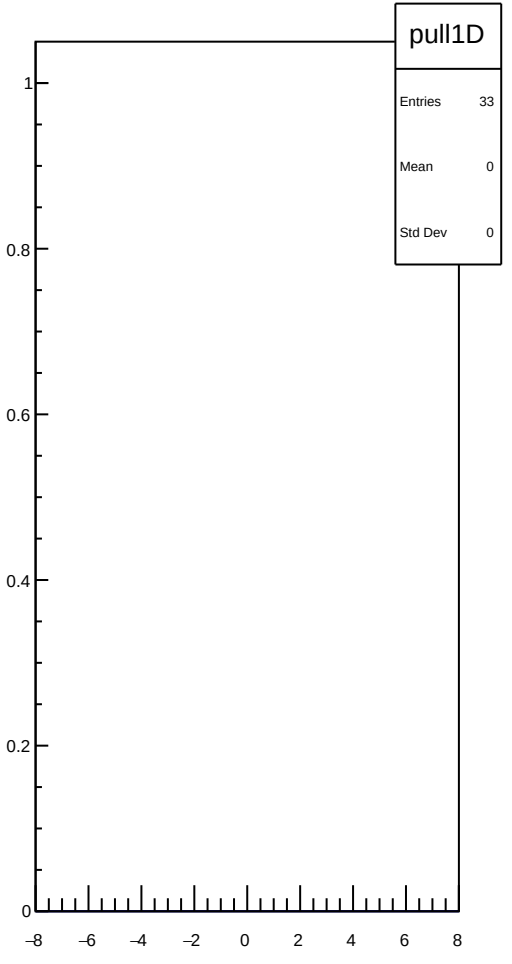

yield_sam2_rms vs run
χ² / ndf 1.487e+05 / 32
p0 0.2844 ± 0.0004009
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

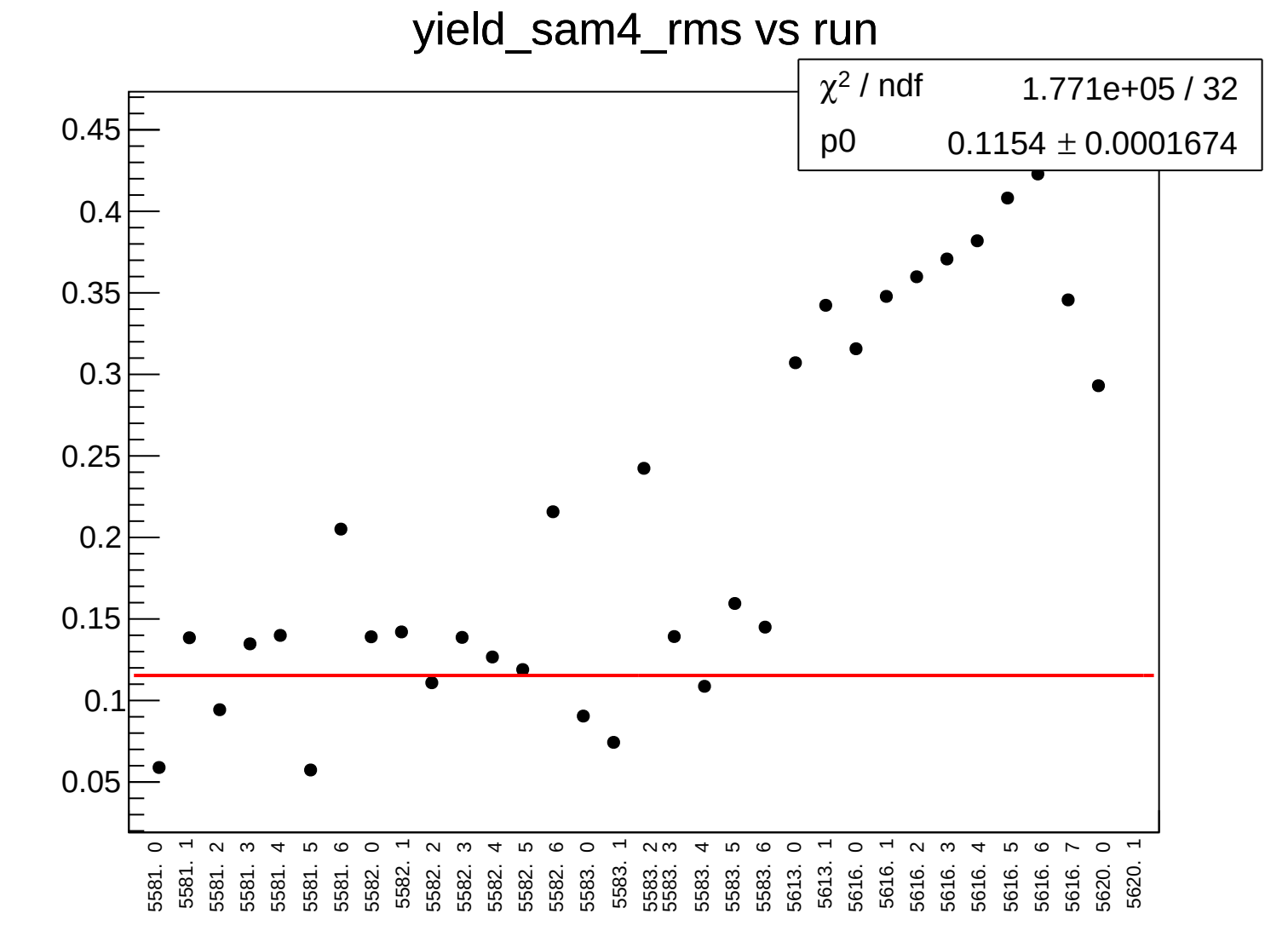

yield_sam3_mean vs run
χ² / ndf 3.859e+05 / 32
p0 34.37 ± 0.0003725
34.8
34.7
34.6
34.5
34.4
34.3
34.2
34.1
34
33.9
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.03
Std Dev 0
300
200
100
0
−100
−200

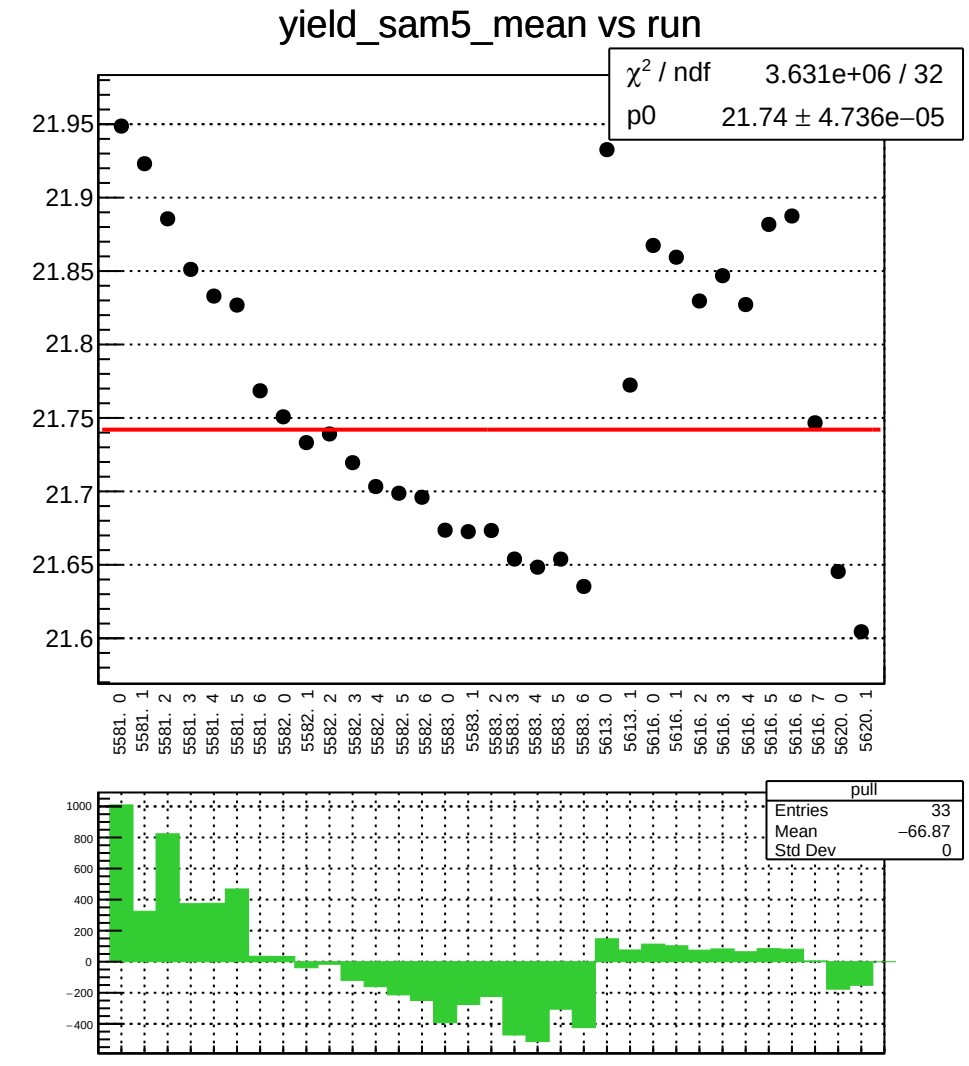

pull1D
Entries 33
Mean −3.311
Std Dev 3.639
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

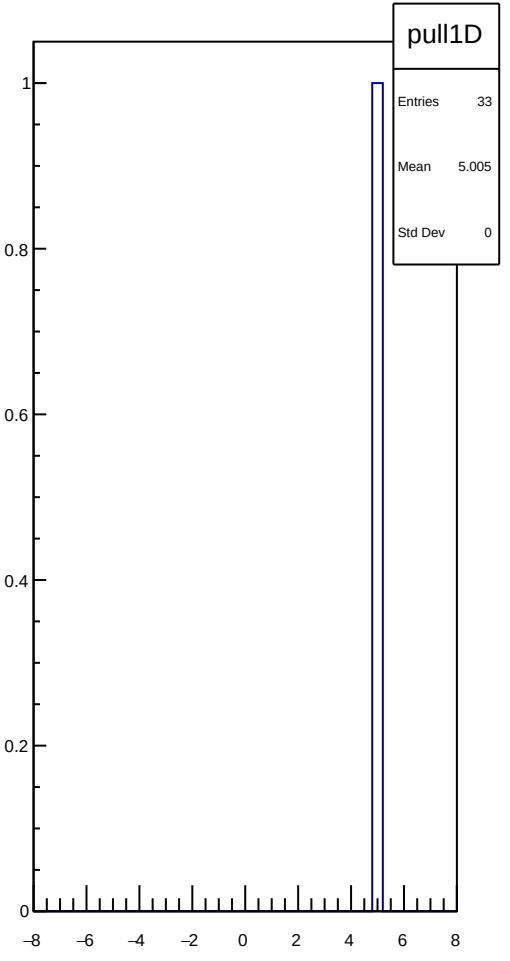

yield_sam3_rms vs run
χ² / ndf 1.763e+05 / 32
p0 0.1817 ± 0.0002634
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

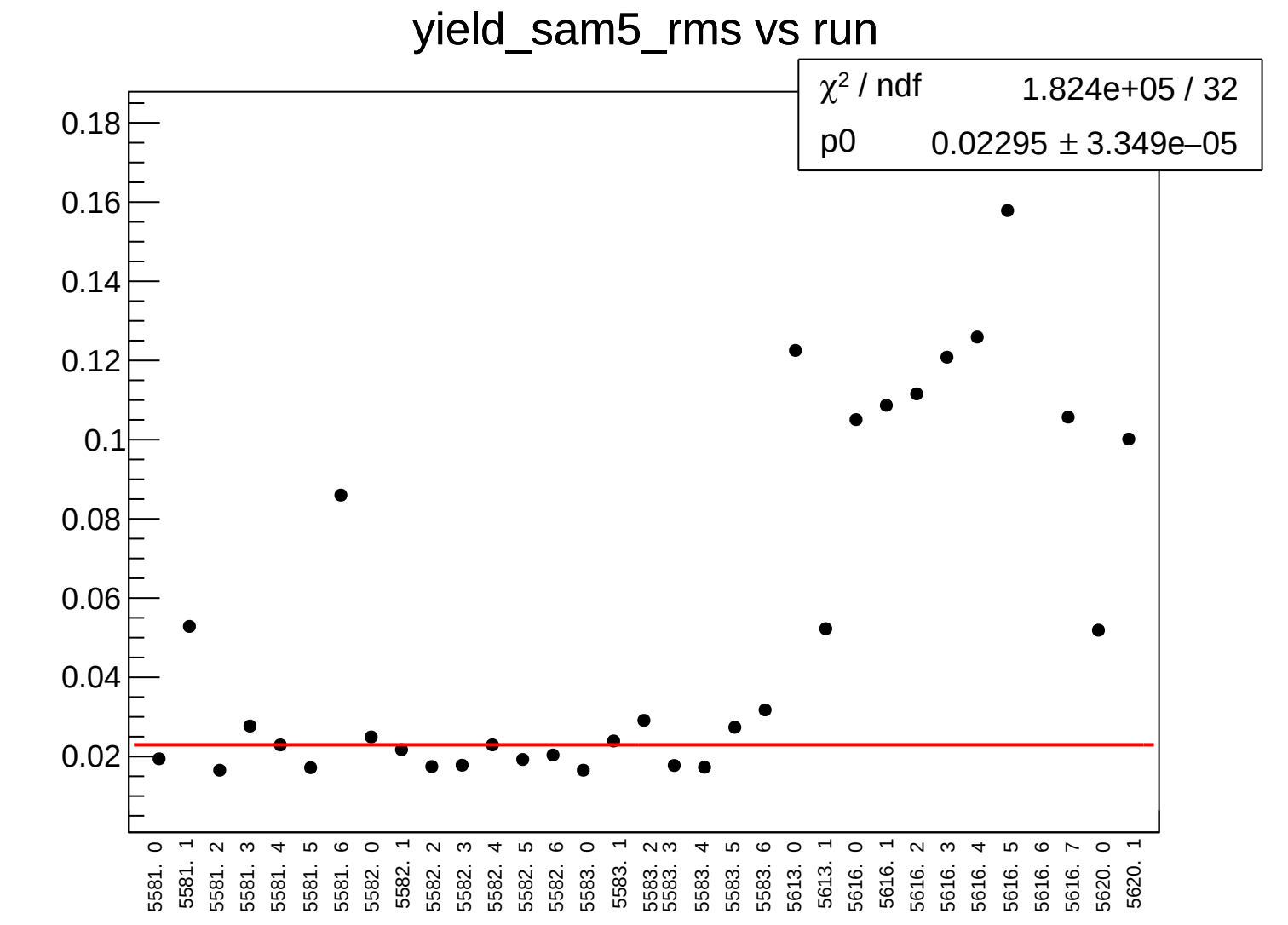

yield_sam4_mean vs run
χ² / ndf 3.033e+05 / 32
p0 17.78 ± 0.0002367
18.3
18.2
18.1
18
17.9
17.8
17.7
17.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.96
Std Dev 10.78
250
200
150
100
50
0
−50
−100
−150

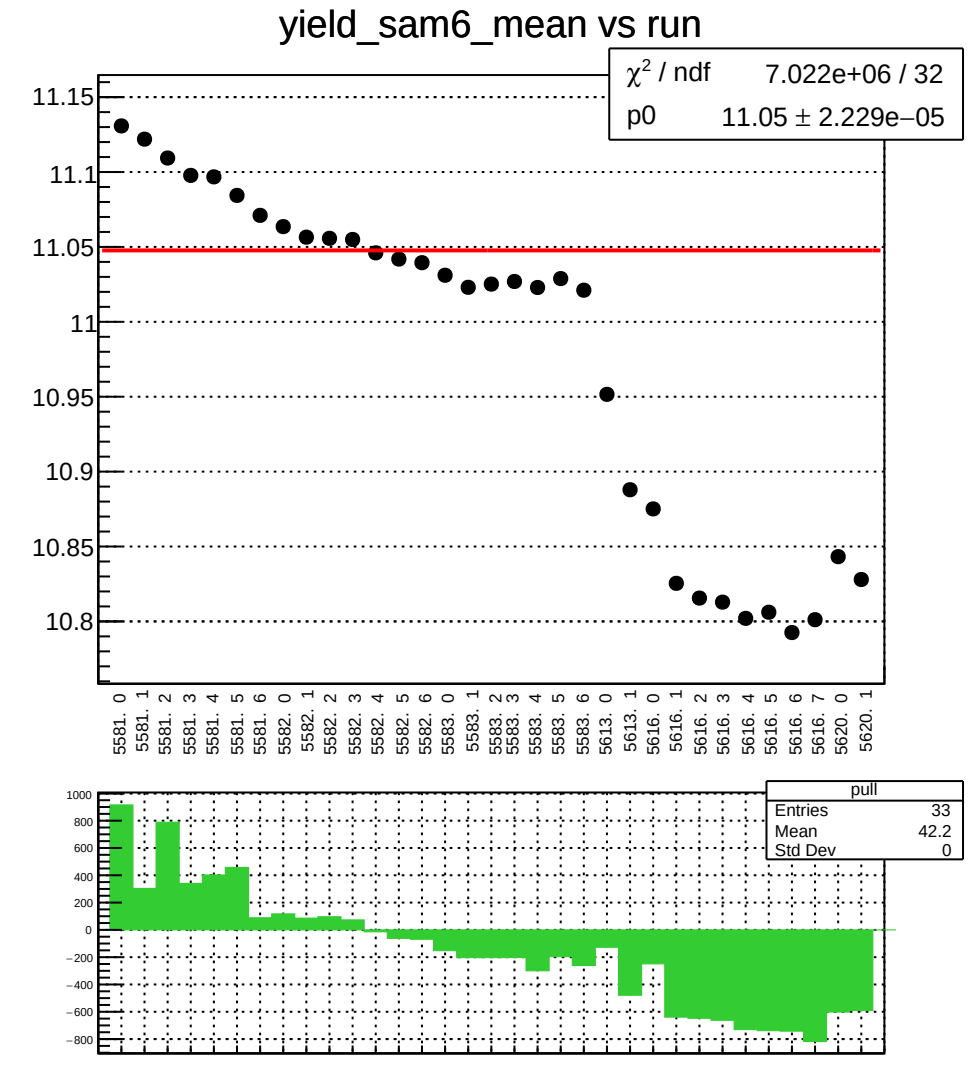

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

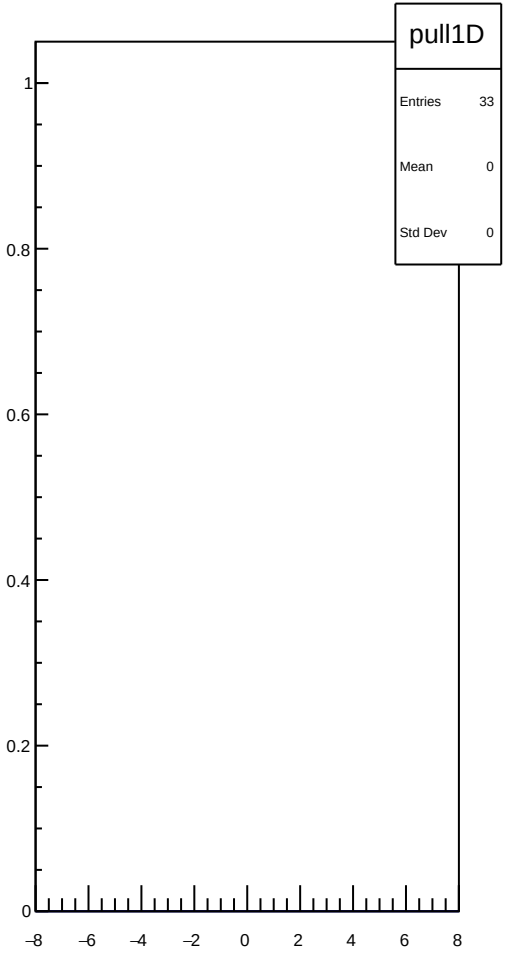

yield_sam4_rms vs run
χ² / ndf 1.771e+05 / 32
p0 0.1154 ± 0.0001674
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

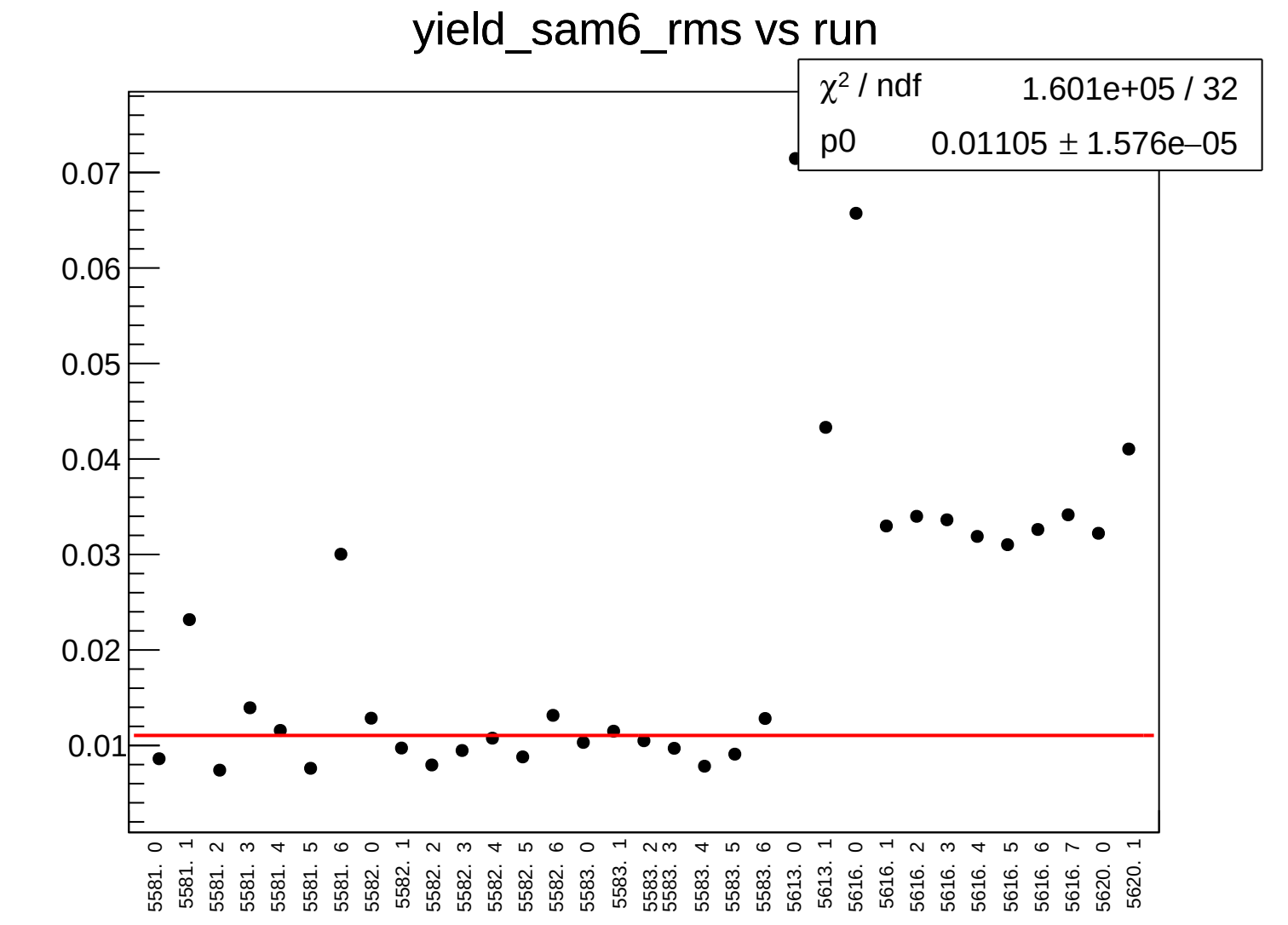

yield_sam5_mean vs run
χ² / ndf 3.631e+06 / 32
p0 21.74 ± 4.736e−05
21.95
21.9
21.85
21.8
21.75
21.7
21.65
21.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −66.87
Std Dev 0
1000
800
600
400
200
0
−200
−400

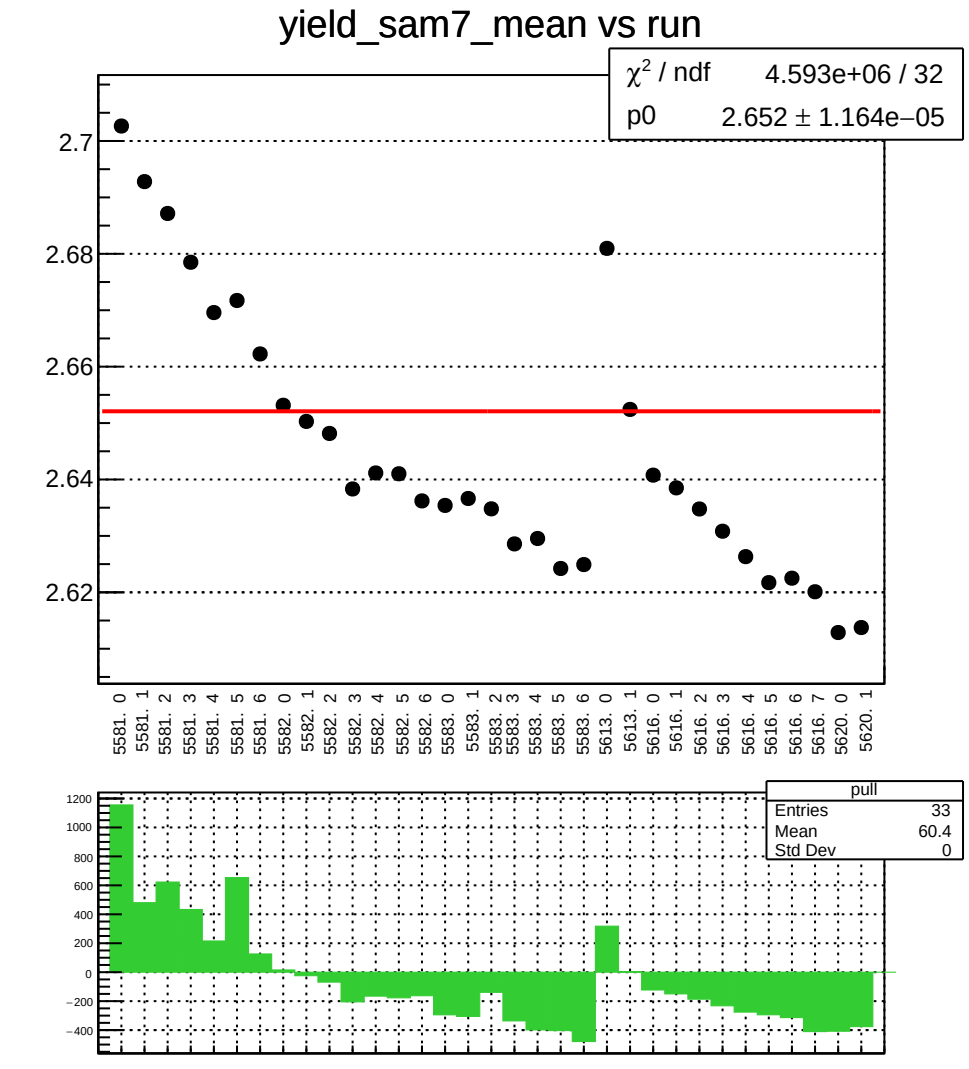

pull1D
Entries 33
Mean 5.005
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

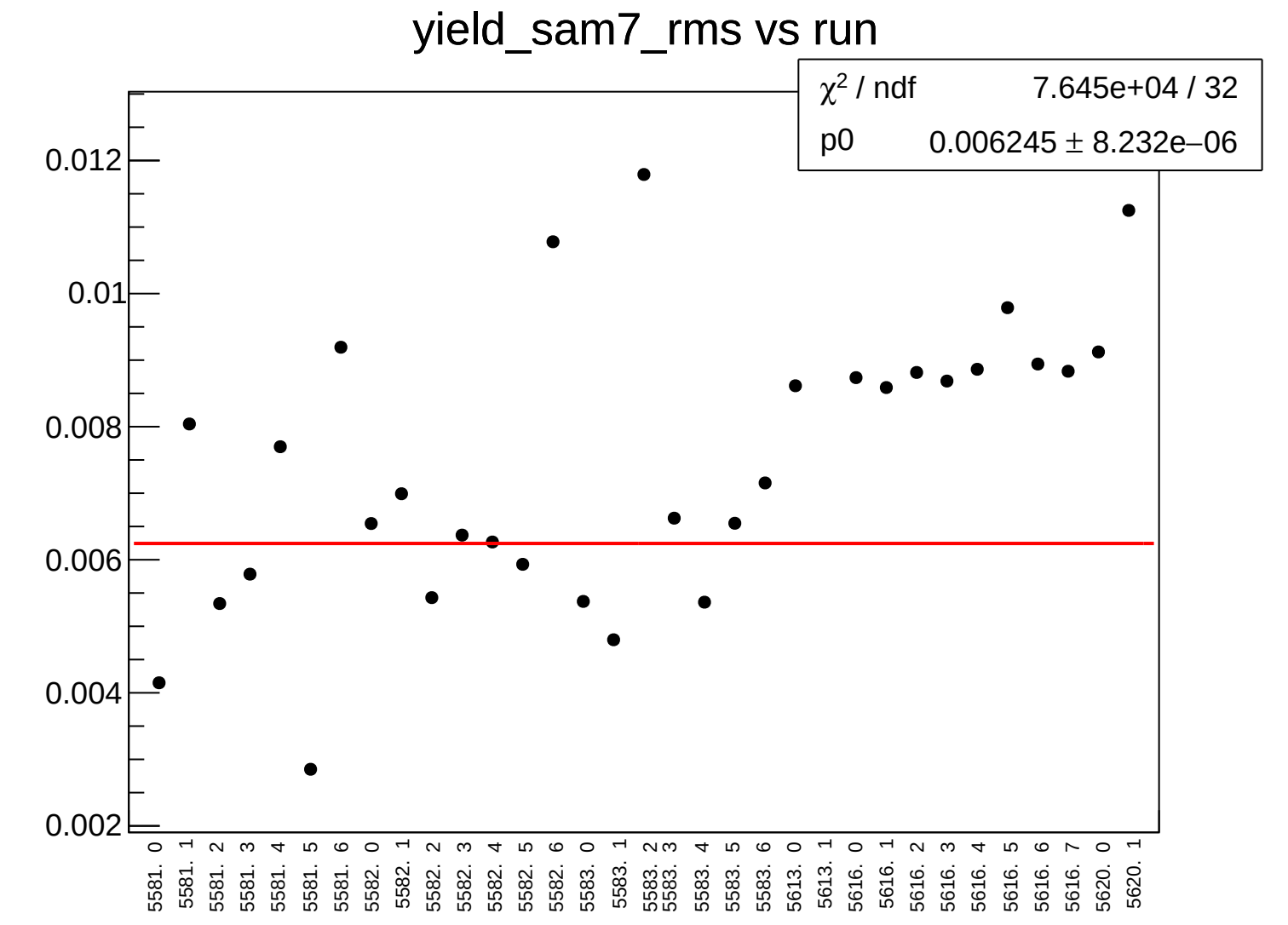

yield_sam5_rms vs run
χ² / ndf 1.824e+05 / 32
p0 0.02295 ± 3.349e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

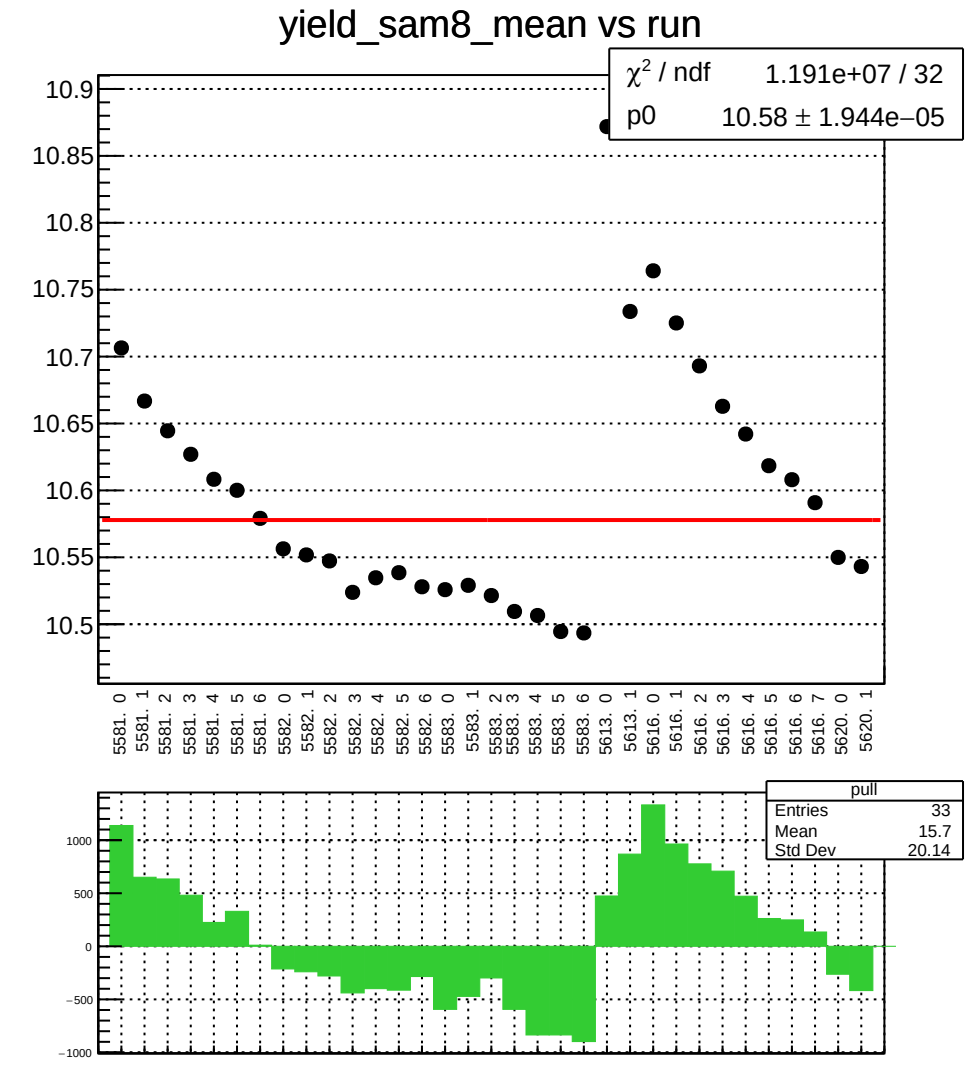

yield_sam6_mean vs run
χ² / ndf 7.022e+06 / 32
p0 11.05 ± 2.229e−05
11.15
11.1
11.05
11
10.95
10.9
10.85
10.8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 42.2
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

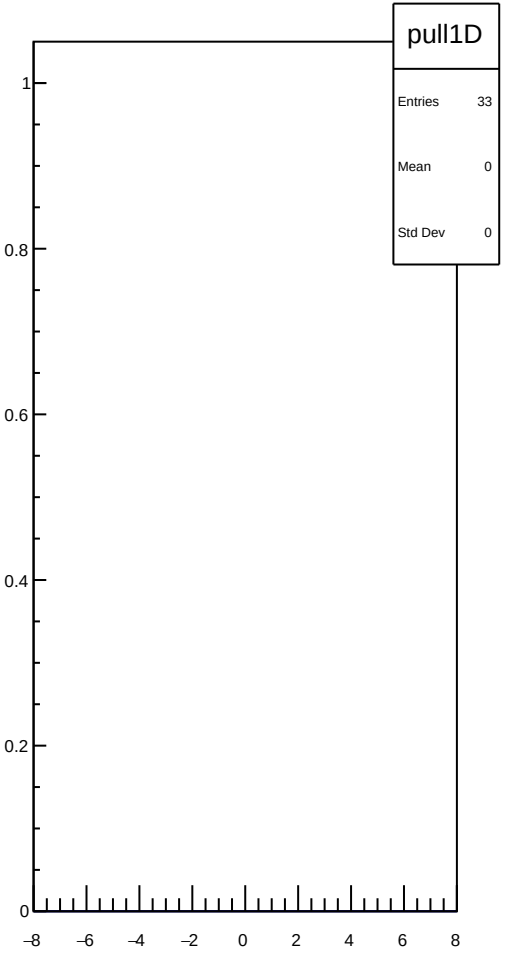

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

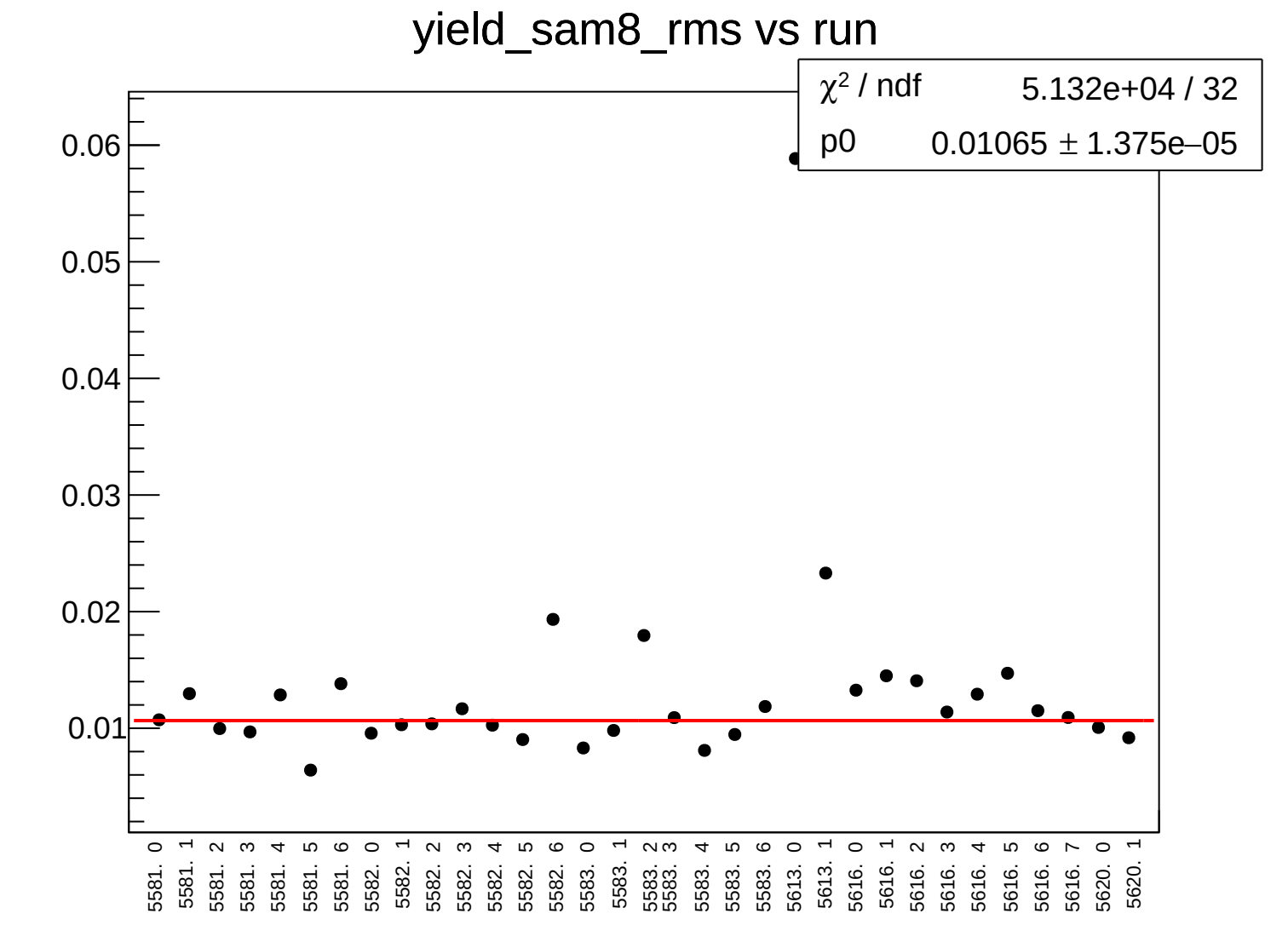

yield_sam6_rms vs run
χ² / ndf 1.601e+05 / 32
p0 0.01105 ± 1.576e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

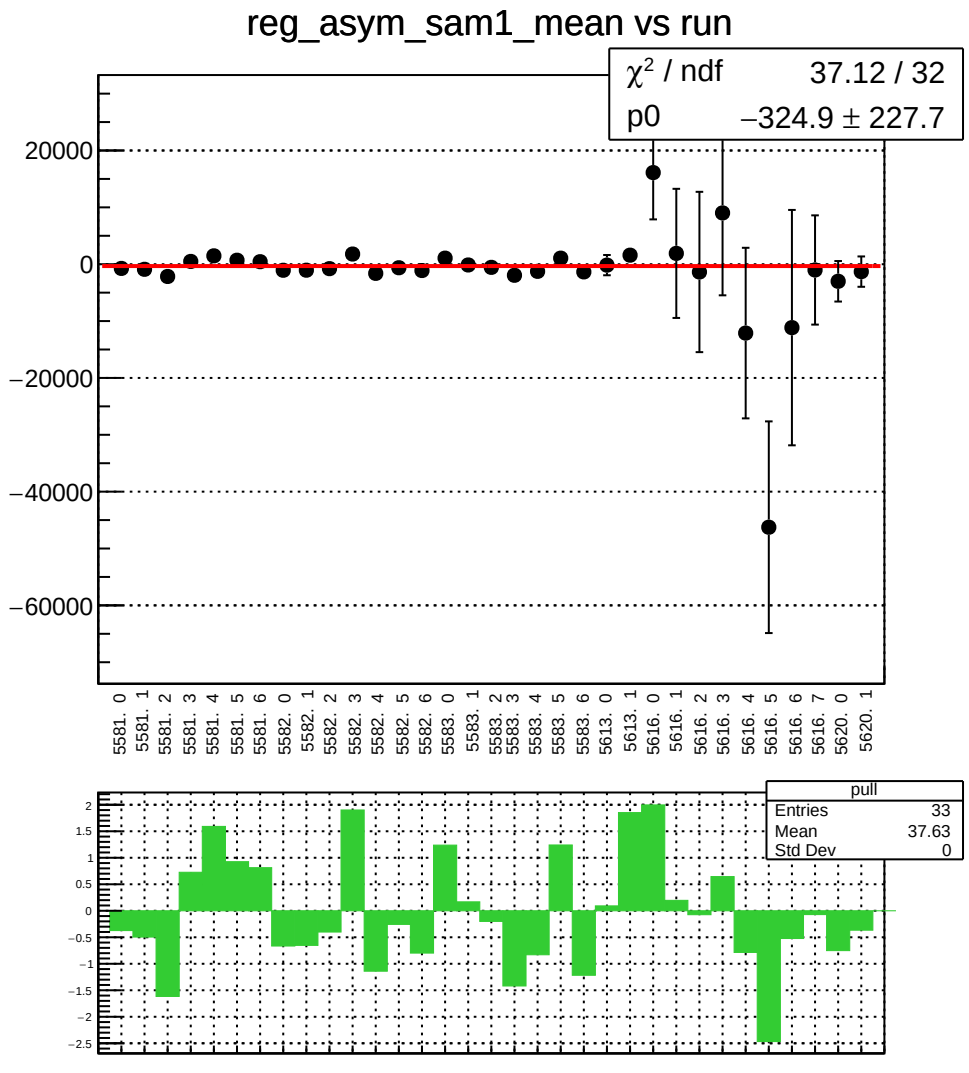

yield_sam7_mean vs run
χ² / ndf 4.593e+06 / 32
p0 2.652 ± 1.164e−05
2.7
2.68
2.66
2.64
2.62
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 60.4
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
pull1D
Entries 33
Mean 3.592
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

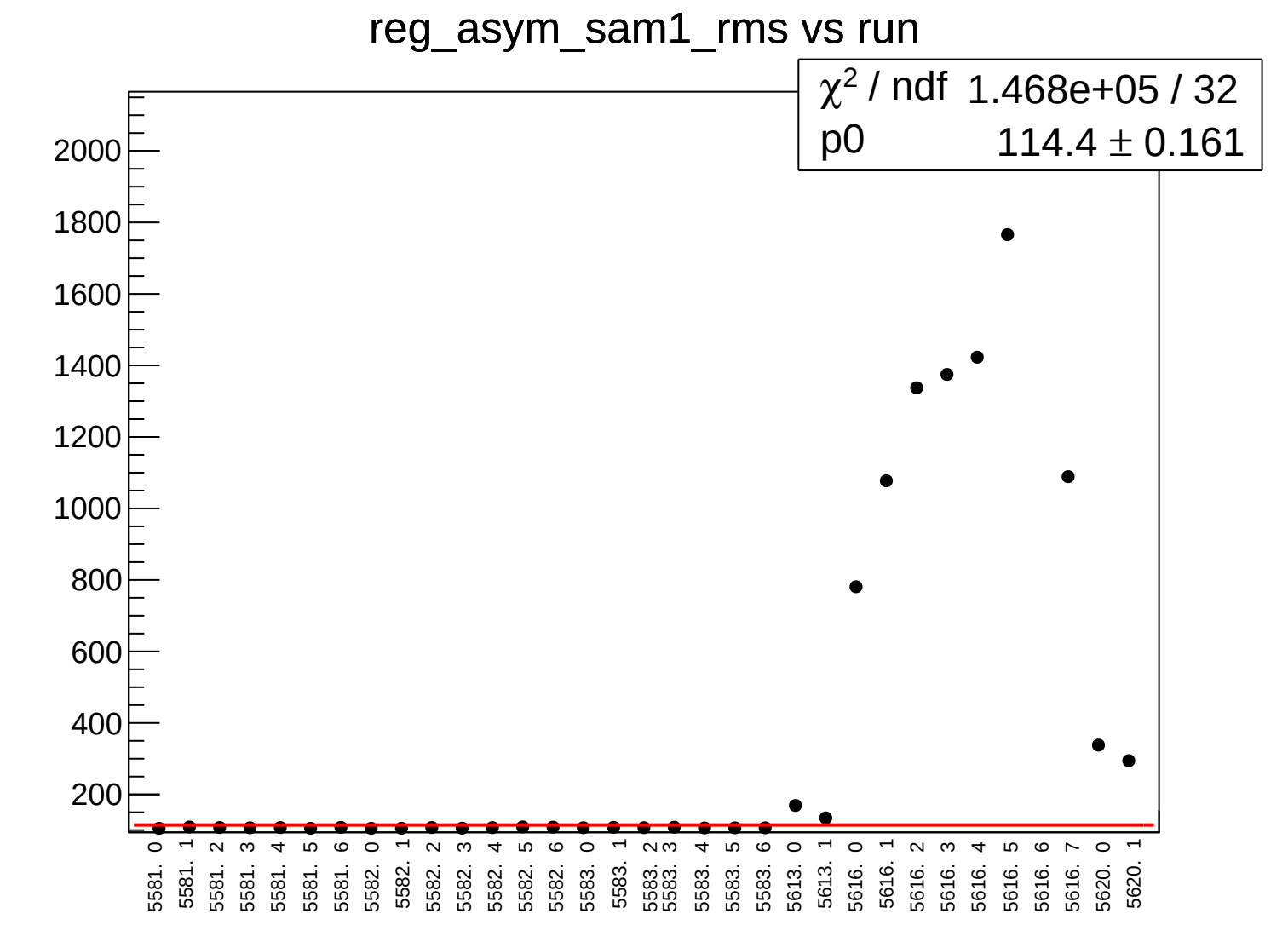

yield_sam7_rms vs run
χ² / ndf 7.645e+04 / 32
p0 0.006245 ± 8.232e−06
0.012
0.01
0.008
0.006
0.004
0.002
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

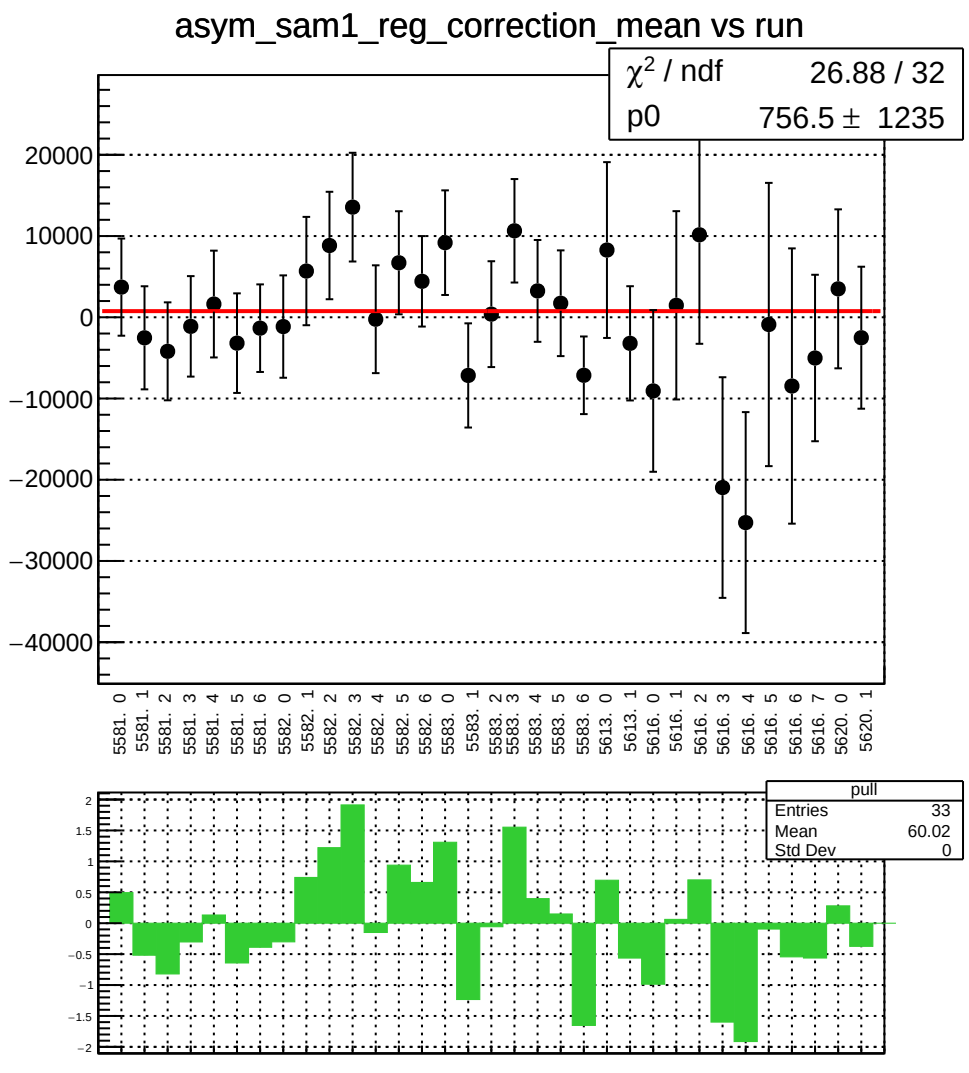

yield_sam8_mean vs run
χ² / ndf 1.191e+07 / 32
p0 10.58 ± 1.944e−05
10.9
10.85
10.8
10.75
10.7
10.65
10.6
10.55
10.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 15.7
Std Dev 20.14
1000
500
0
−500
−1000

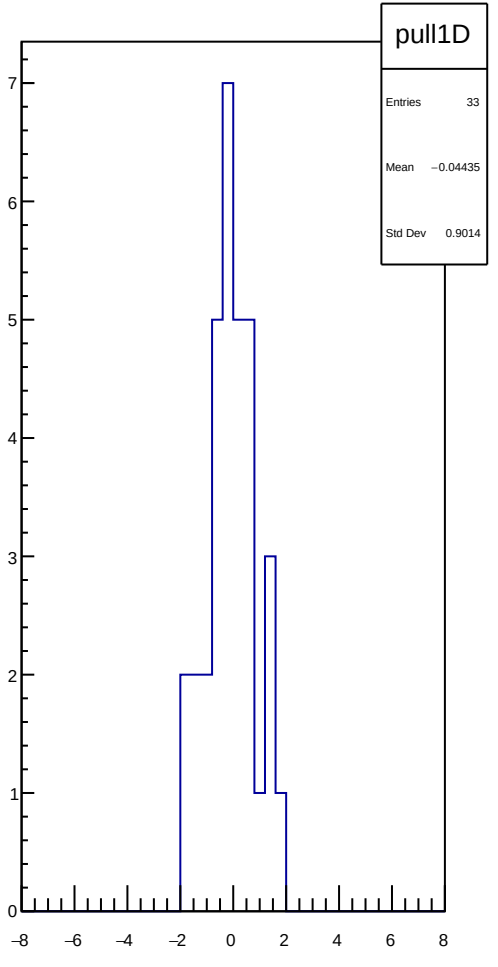

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

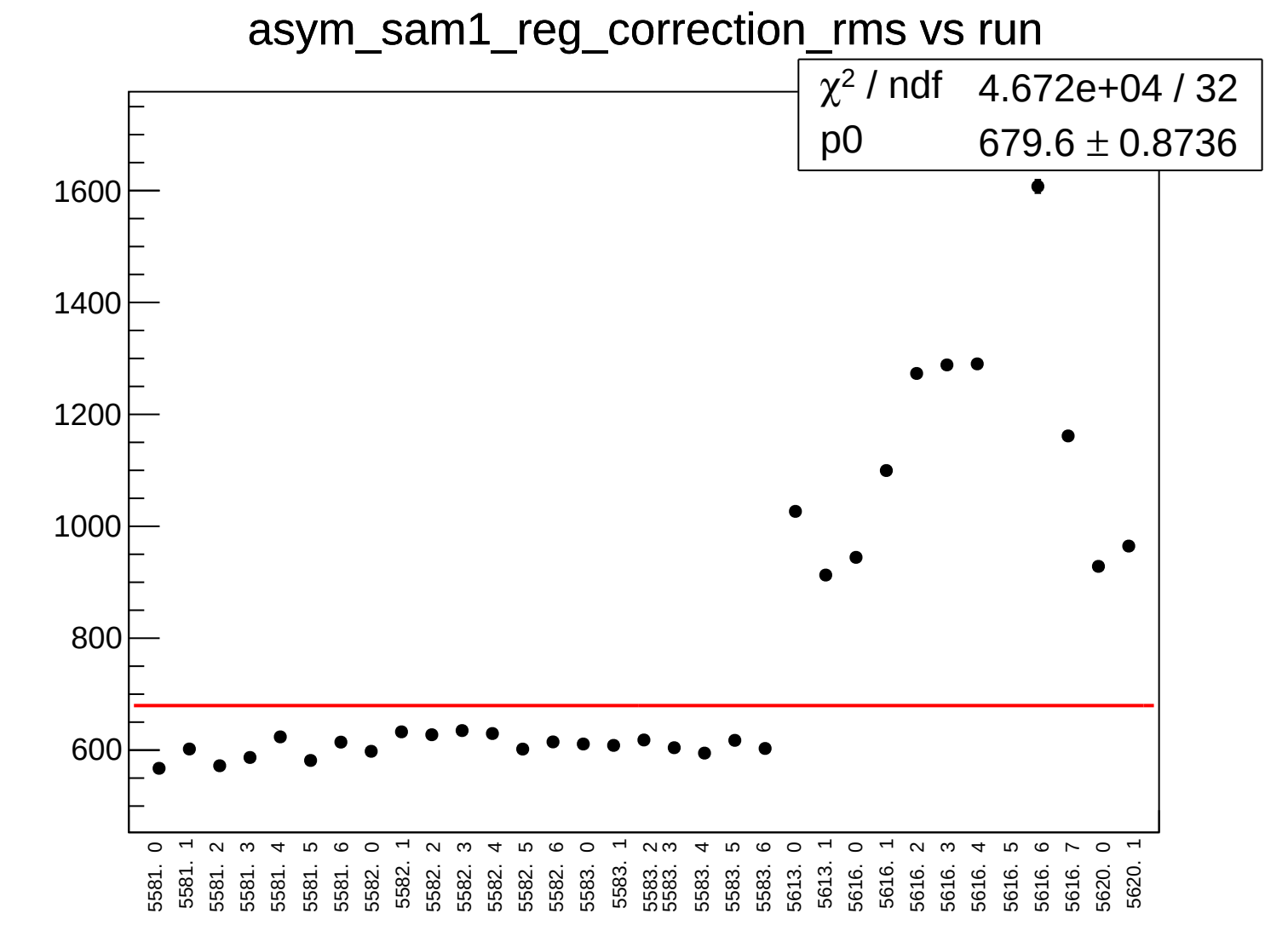

yield_sam8_rms vs run
χ² / ndf 5.132e+04 / 32
p0 0.01065 ± 1.375e−05
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

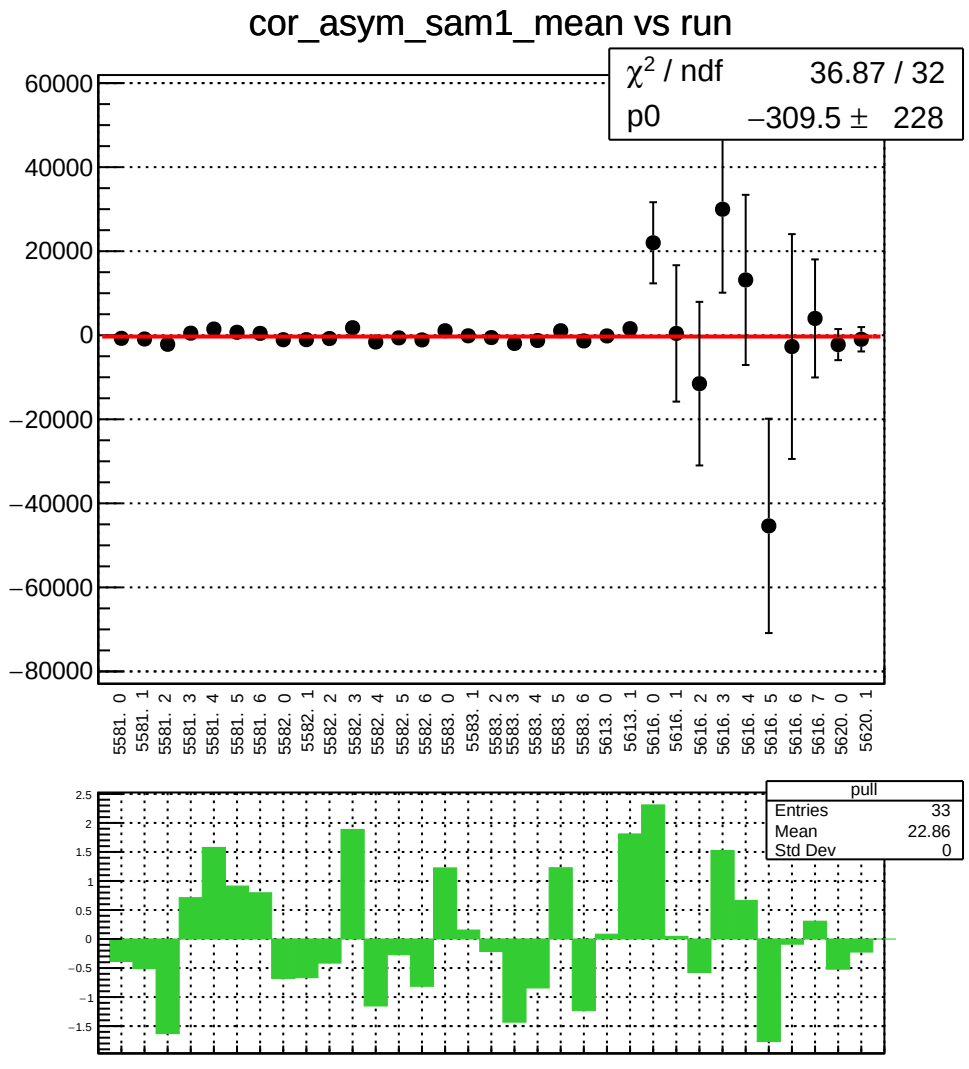

reg_asym_sam1_mean vs run
χ² / ndf 37.12 / 32
p0 −324.9 ± 227.7
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.05198
Std Dev 1.059
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

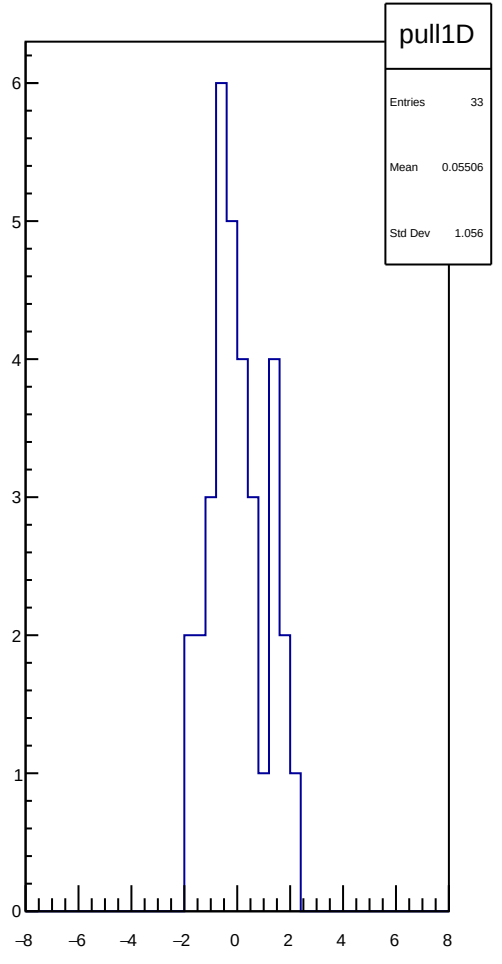

reg_asym_sam1_rms vs run
χ² / ndf 1.468e+05 / 32
p0 114.4 ± 0.161
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

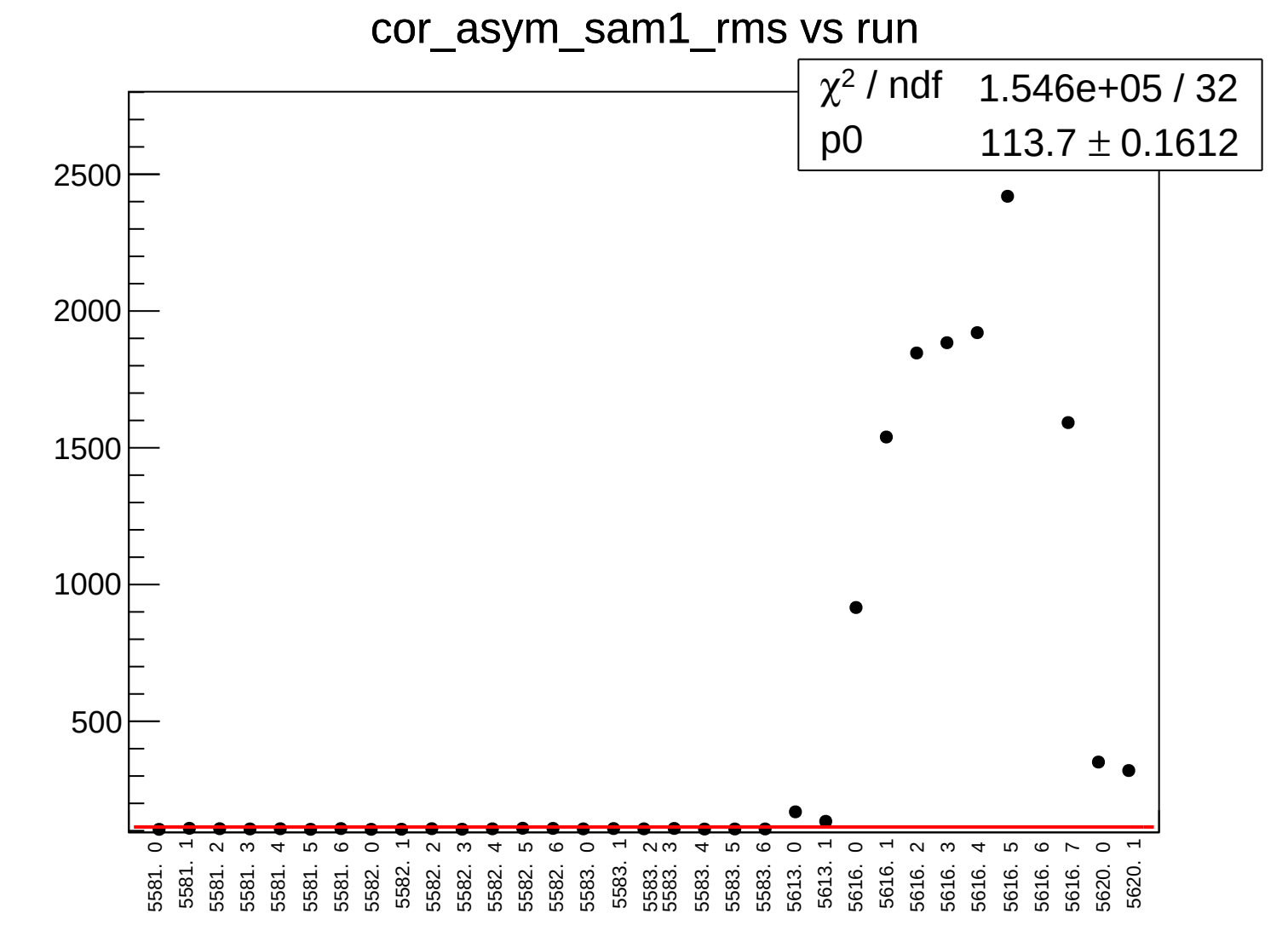

asym_sam1_reg_correction_mean vs run
χ² / ndf 26.88 / 32
p0 756.5 ± 1235
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 60.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

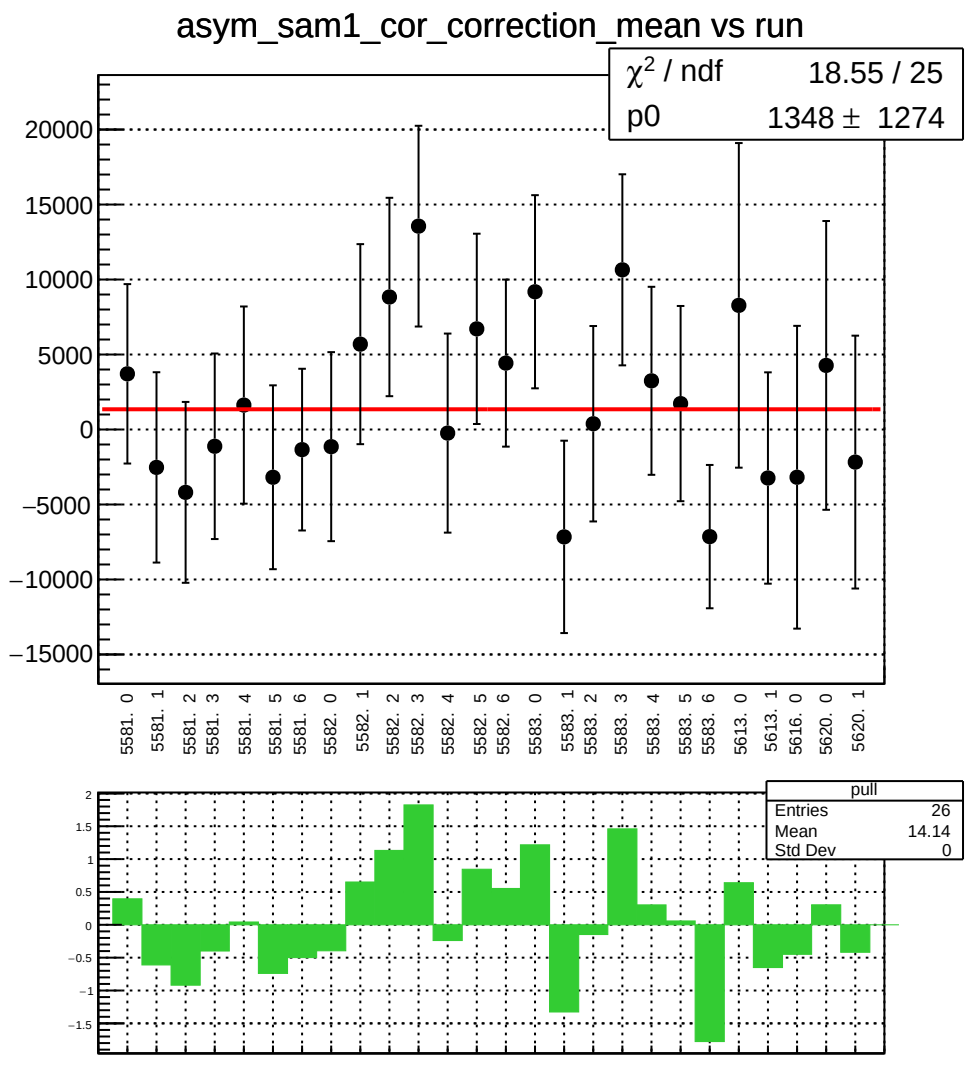

pull1D
Entries 33
Mean −0.04435
Std Dev 0.9014
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

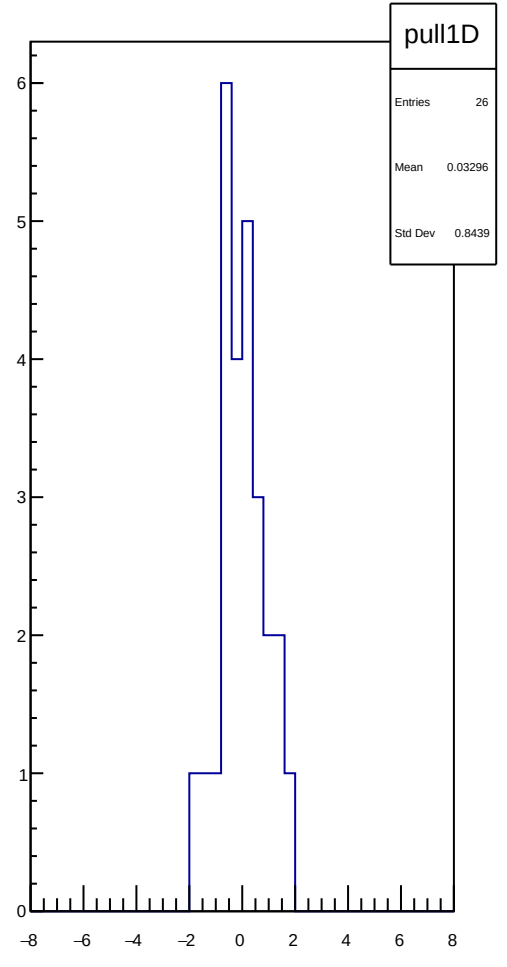

asym_sam1_reg_correction_rms vs run
χ² / ndf 4.672e+04 / 32
p0 679.6 ± 0.8736
1600
1400
1200
1000
800
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

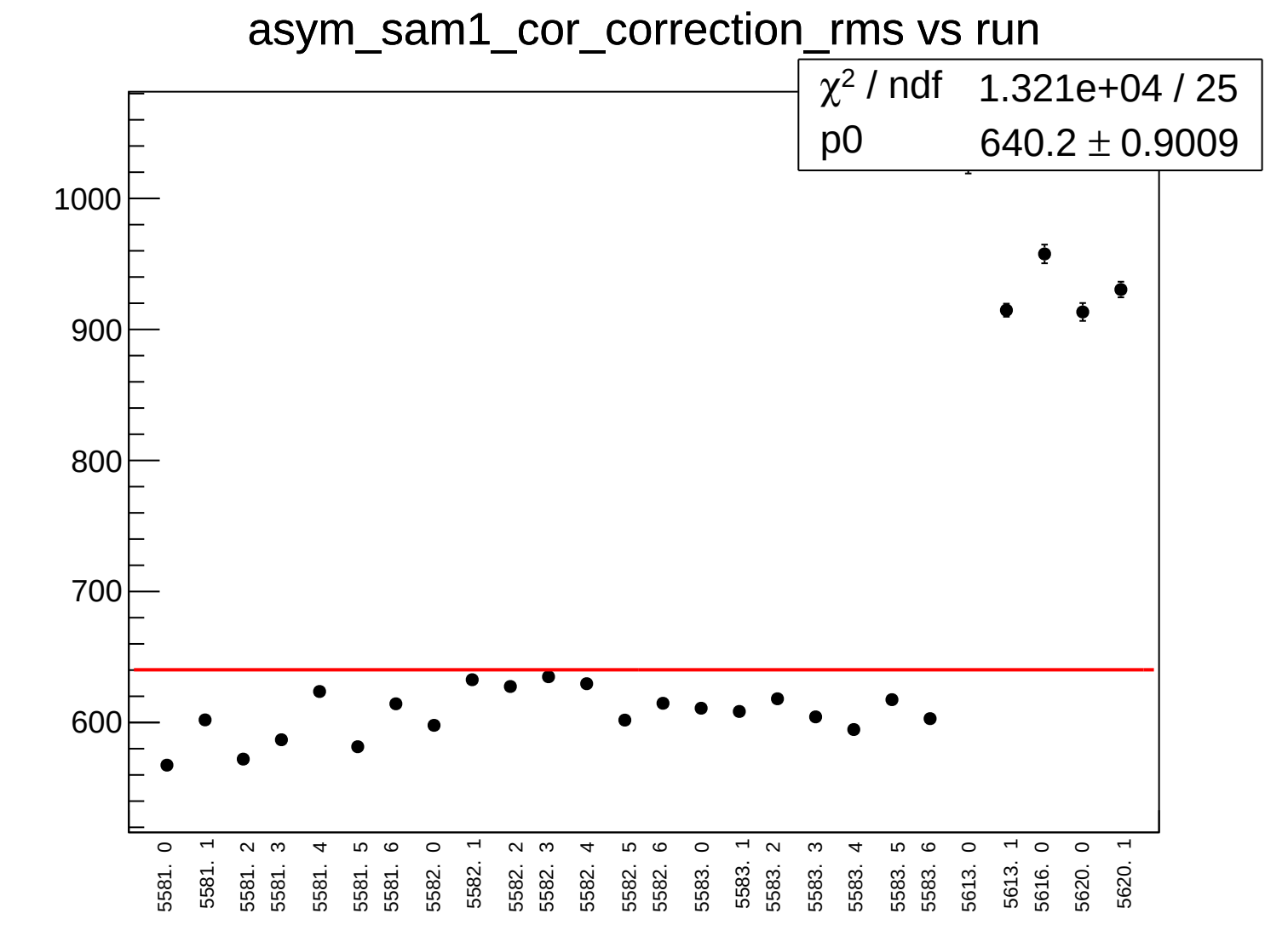

cor_asym_sam1_mean vs run
χ² / ndf 36.87 / 32
p0 −309.5 ± 228
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.86
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

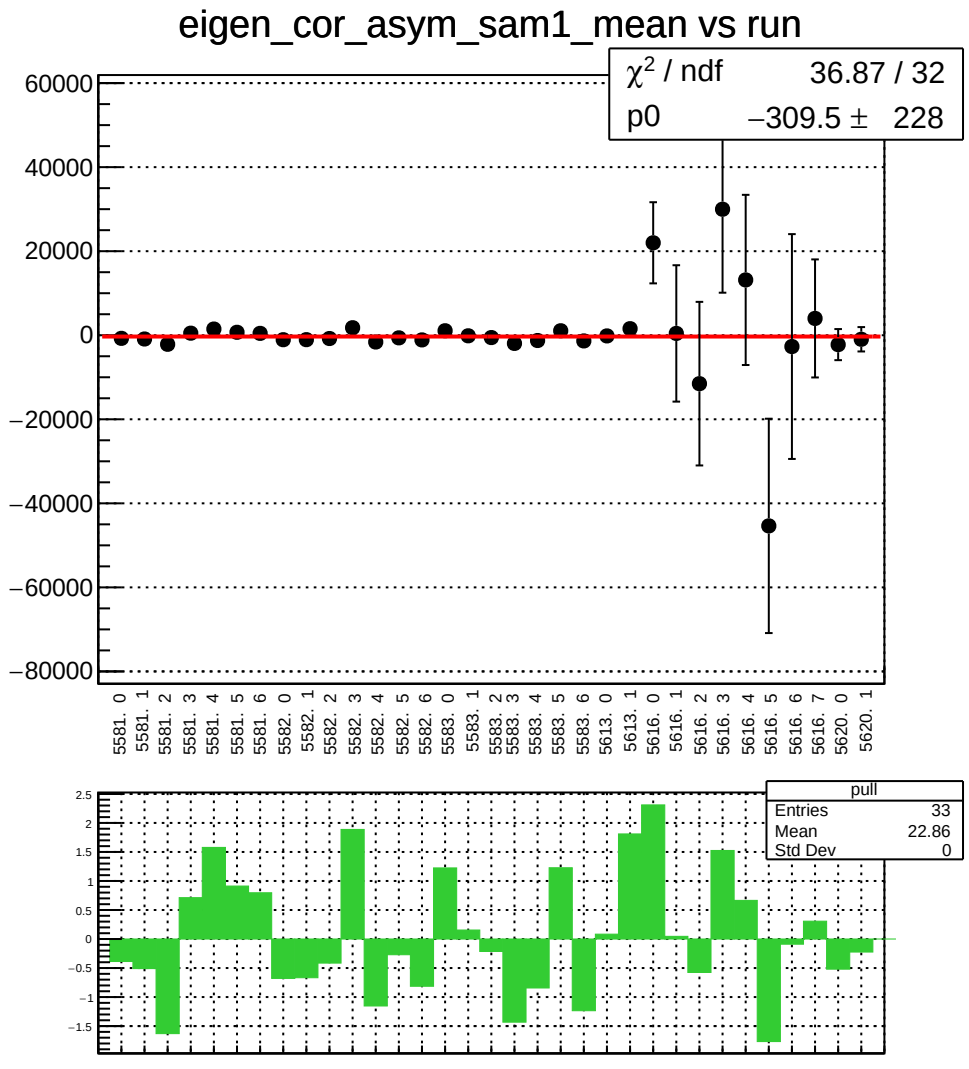

pull1D
Entries 33
Mean 0.05506
Std Dev 1.056
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

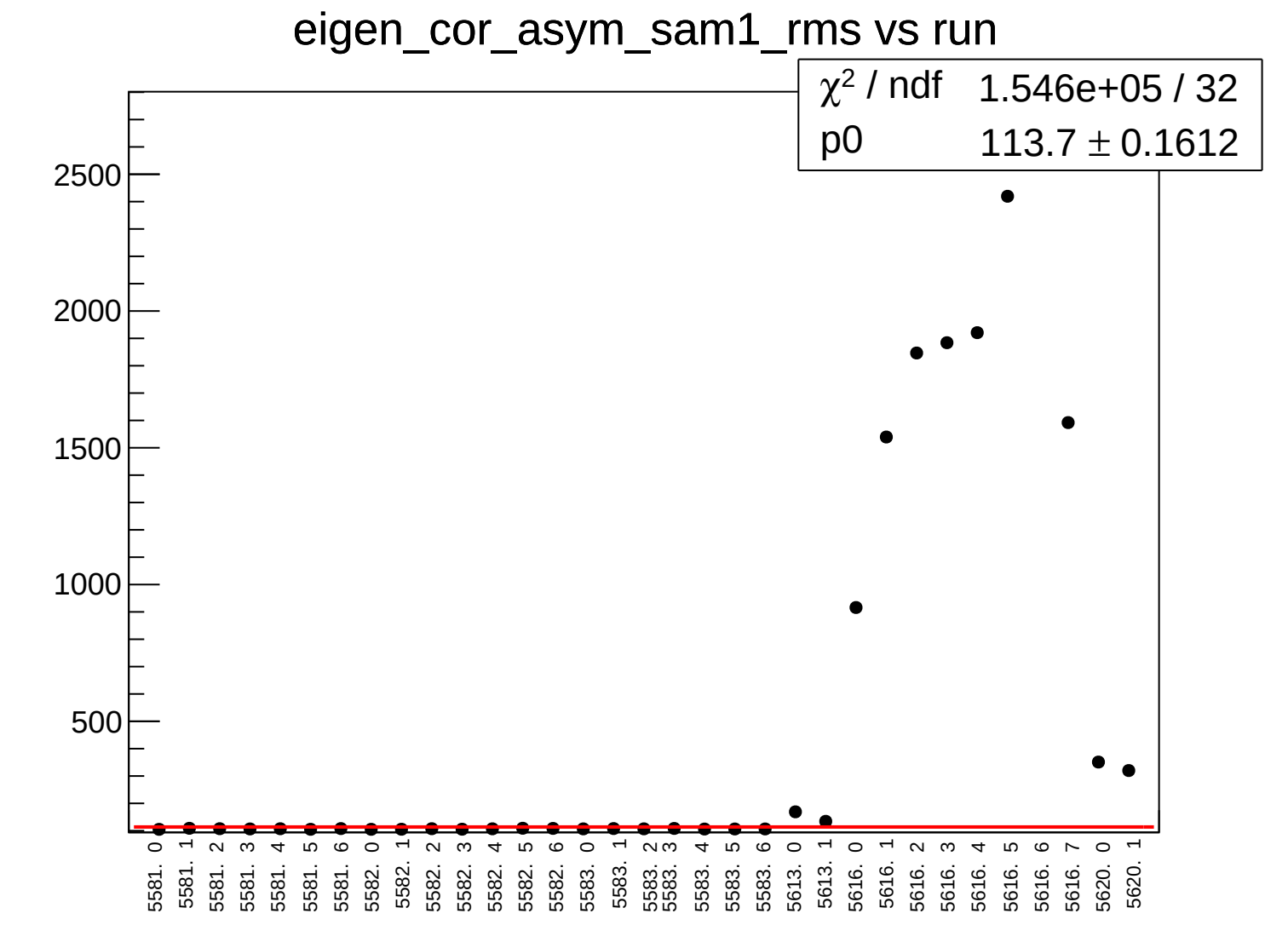

cor_asym_sam1_rms vs run
χ² / ndf 1.546e+05 / 32
p0 113.7 ± 0.1612
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

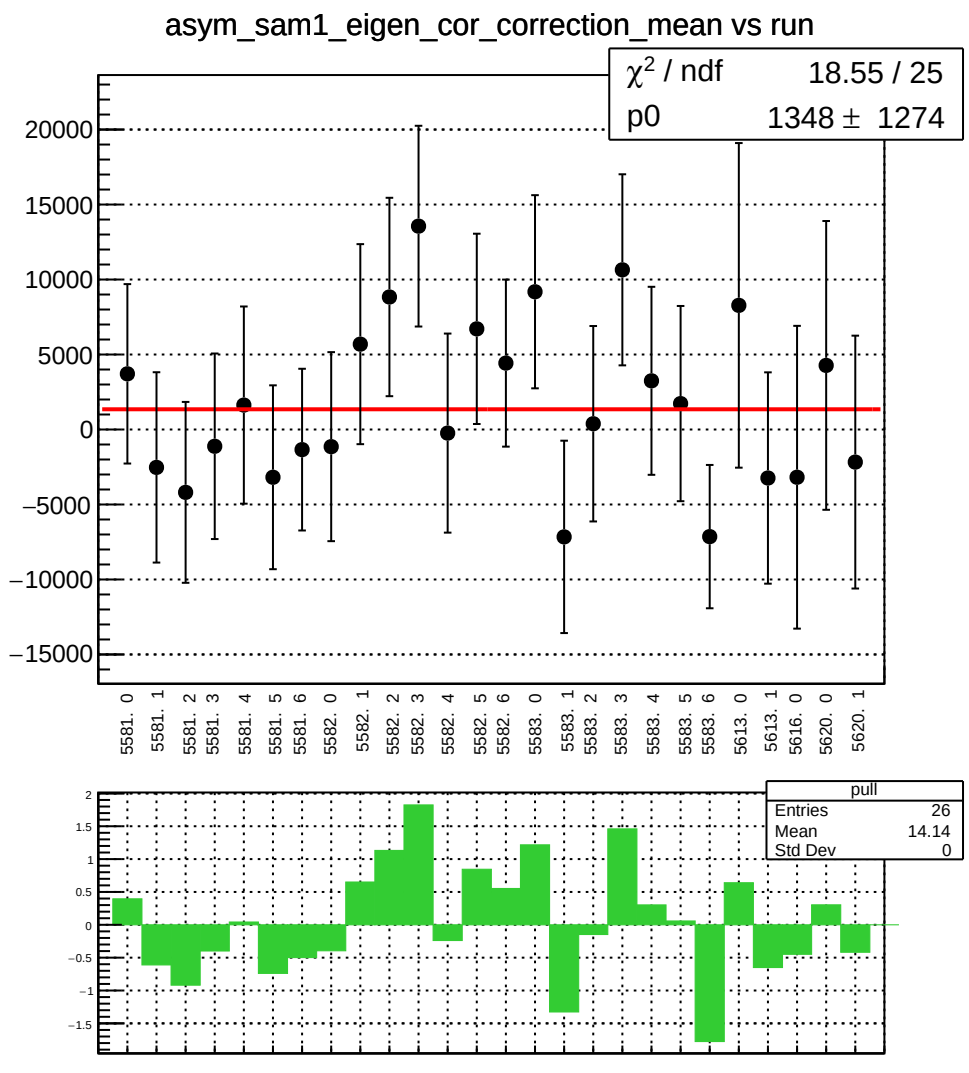

asym_sam1_cor_correction_mean vs run
χ² / ndf 18.55 / 25
p0 1348 ± 1274
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 14.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

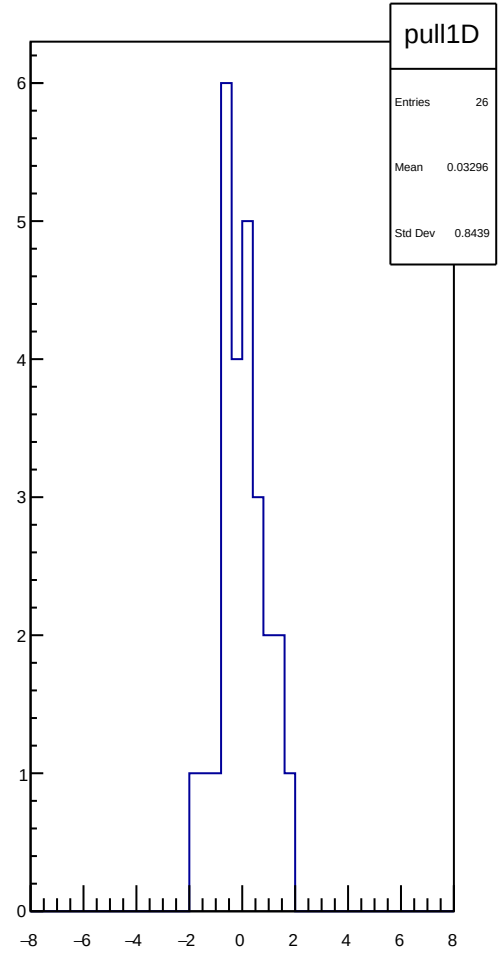

pull1D
Entries 26
Mean 0.03296
Std Dev 0.8439
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

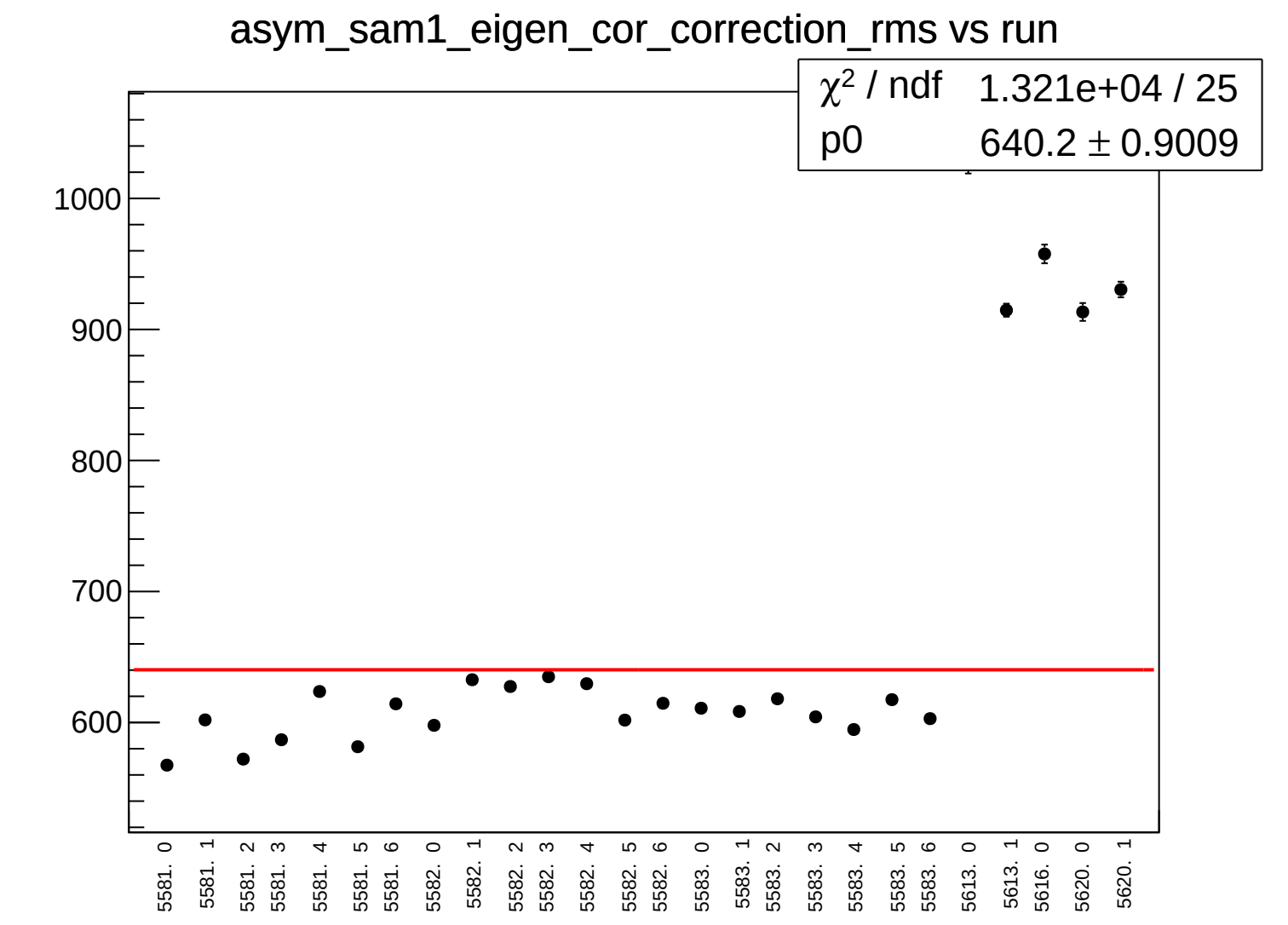

asym_sam1_cor_correction_rms vs run
χ² / ndf 1.321e+04 / 25
p0 640.2 ± 0.9009
1000
900
800
700
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

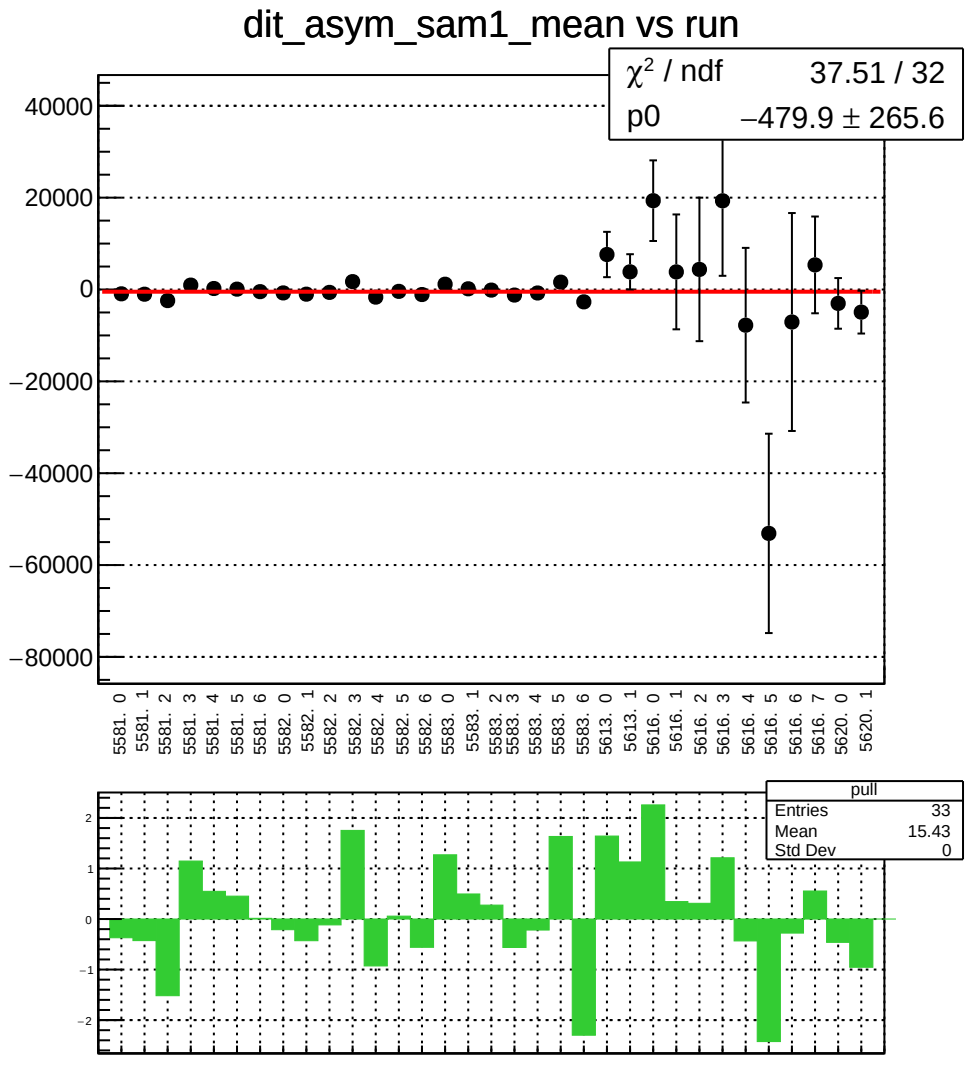

eigen_cor_asym_sam1_mean vs run
χ² / ndf 36.87 / 32
p0 −309.5 ± 228
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.86
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.05506
Std Dev 1.056
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

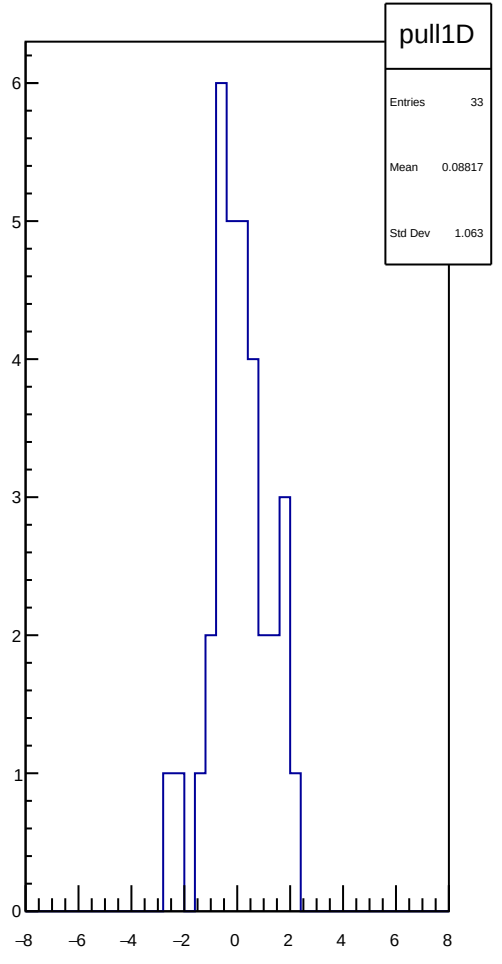

eigen_cor_asym_sam1_rms vs run
χ² / ndf 1.546e+05 / 32
p0 113.7 ± 0.1612
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

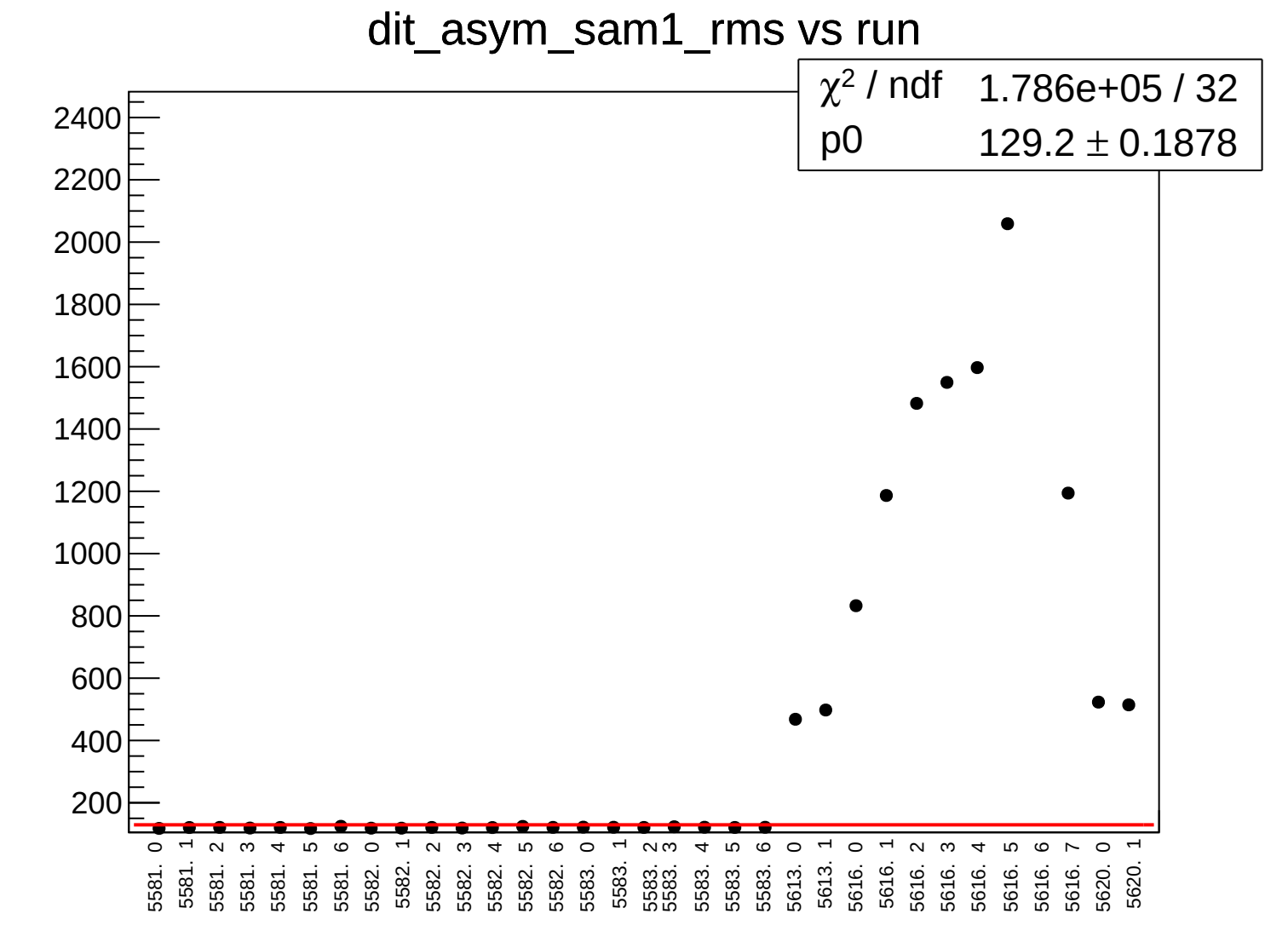

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 18.55 / 25
p0 1348 ± 1274
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 14.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

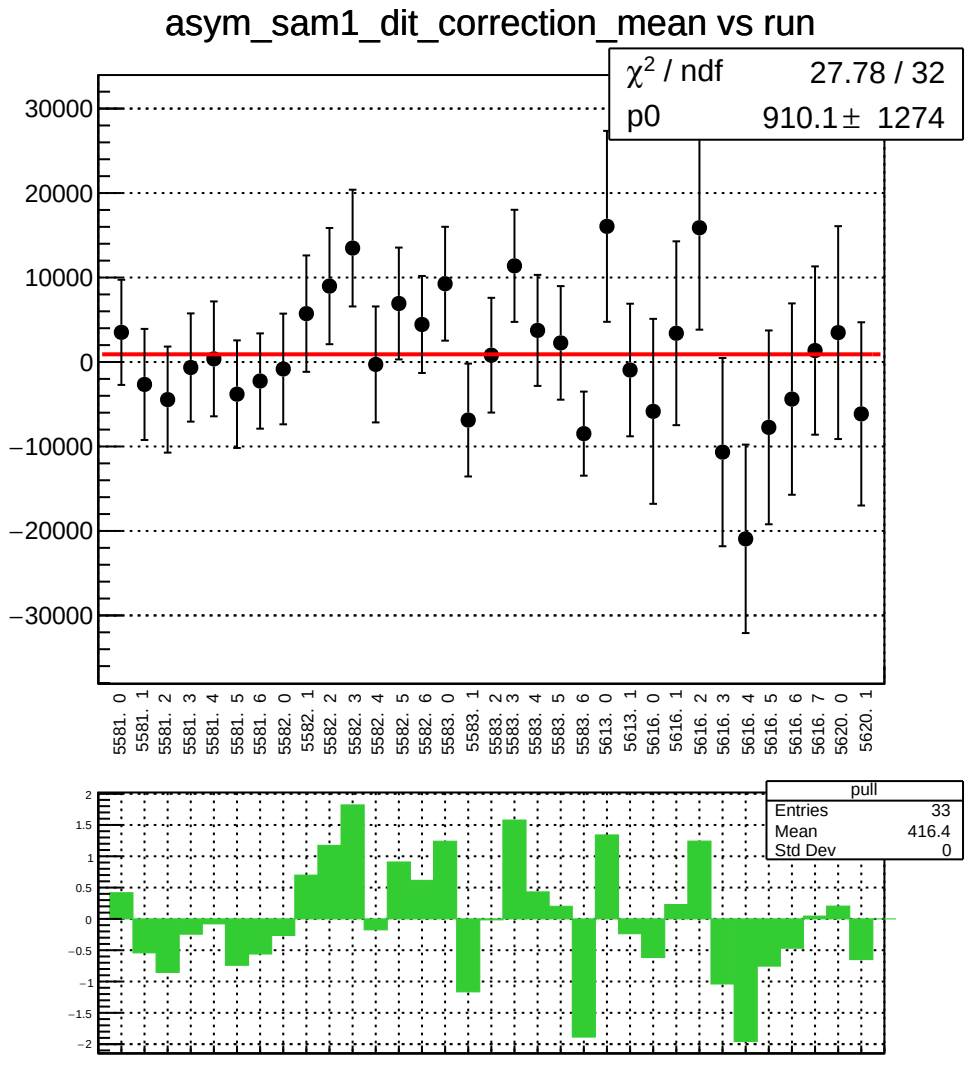

pull1D
Entries 26
Mean 0.03296
Std Dev 0.8439
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

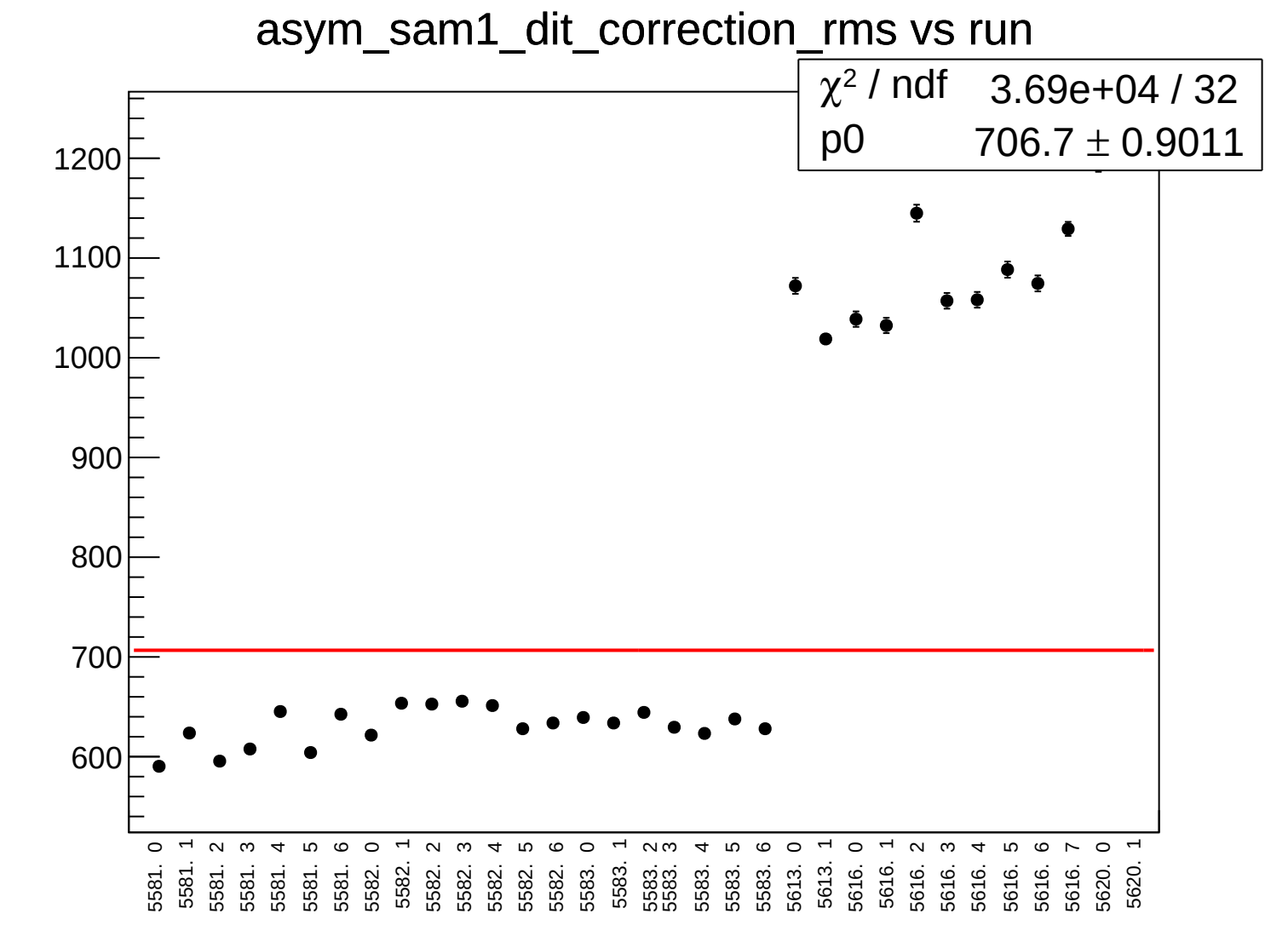

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1.321e+04 / 25
p0 640.2 ± 0.9009
1000
900
800
700
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

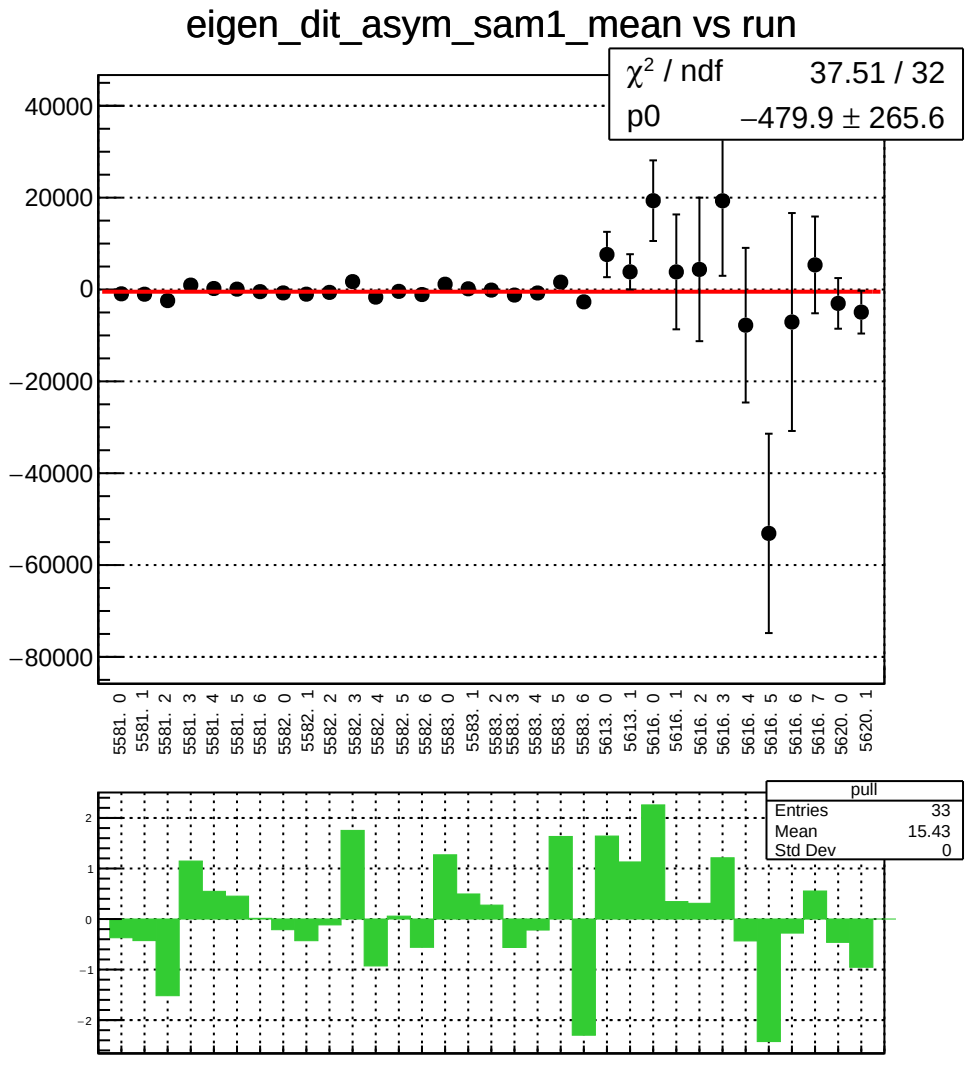

dit_asym_sam1_mean vs run
χ² / ndf 37.51 / 32
p0 −479.9 ± 265.6
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 15.43
Std Dev 0
2
1
0
−1
−2

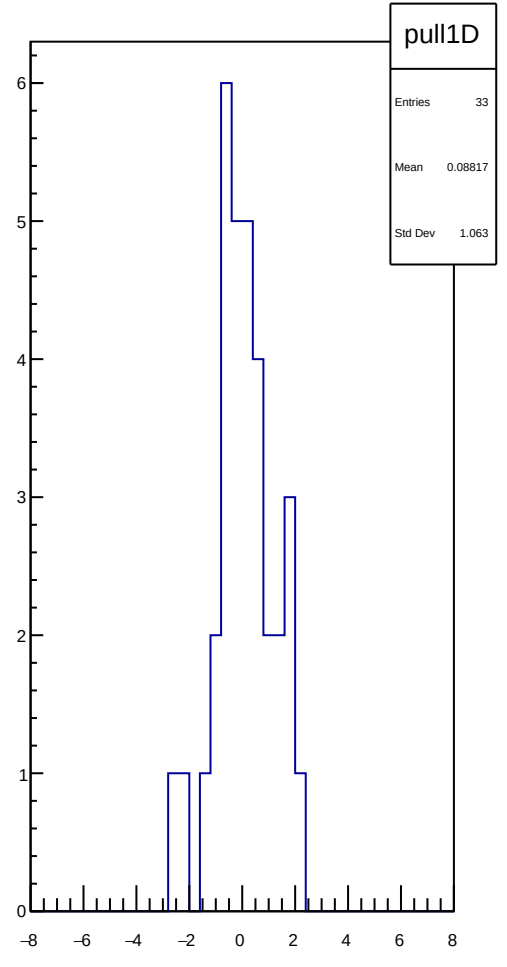

pull1D
Entries 33
Mean 0.08817
Std Dev 1.063
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

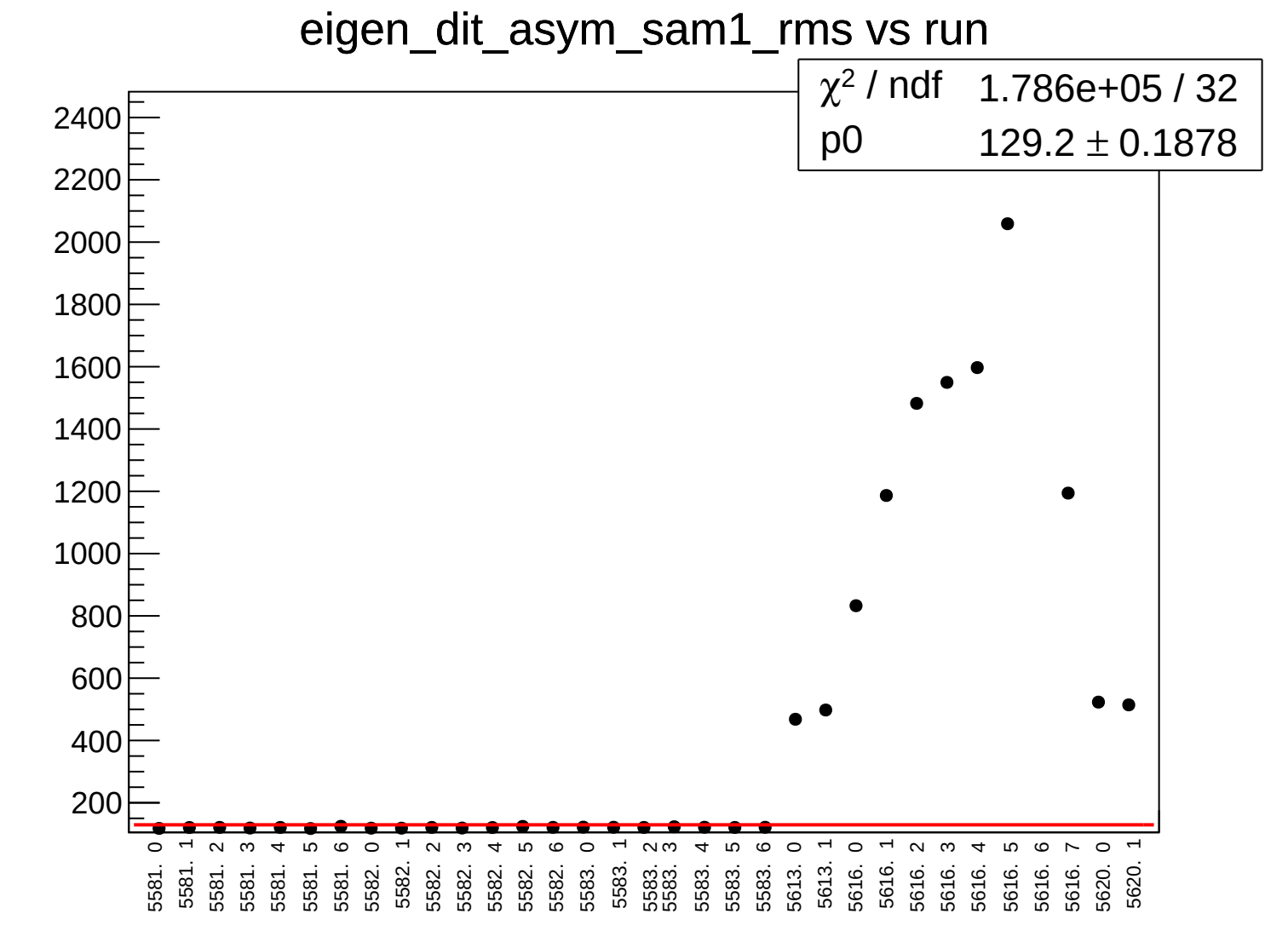

dit_asym_sam1_rms vs run
χ² / ndf 1.786e+05 / 32
p0 129.2 ± 0.1878
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

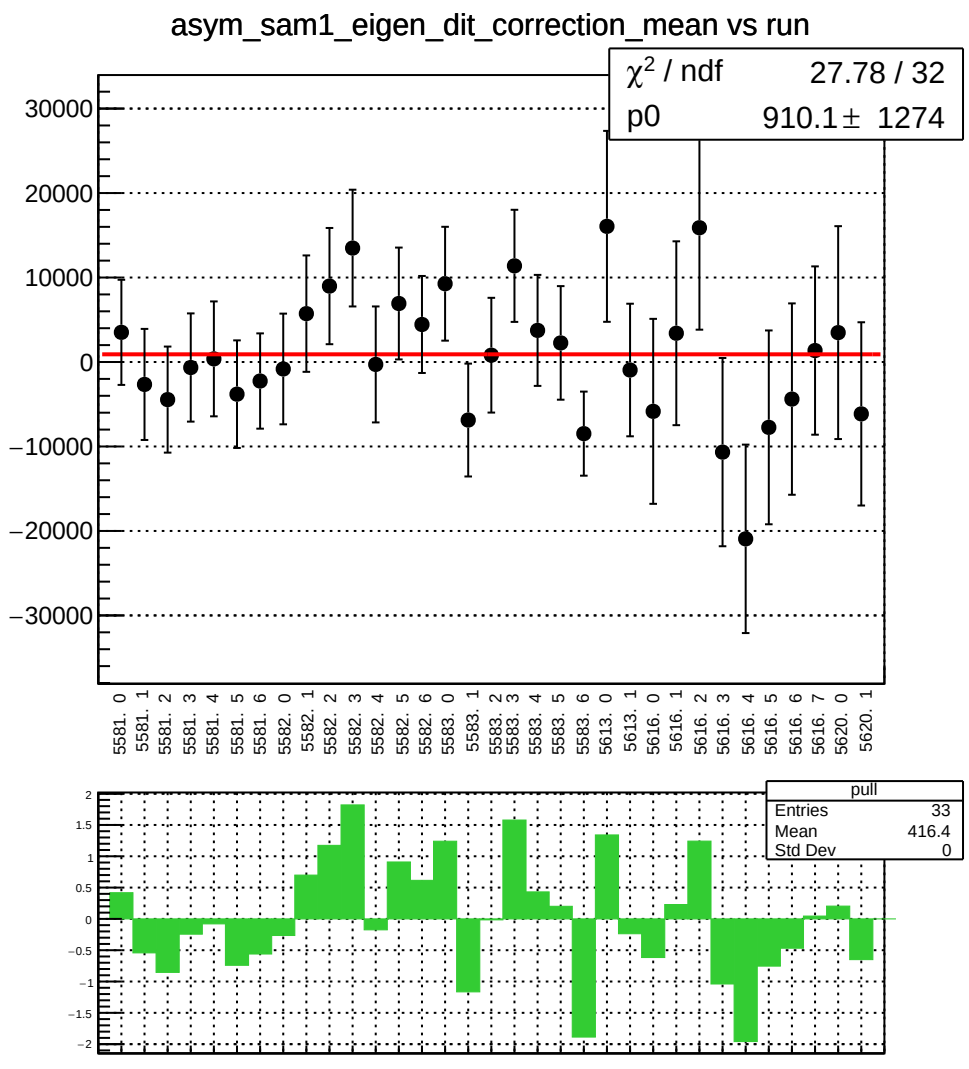

asym_sam1_dit_correction_mean vs run
χ² / ndf 27.78 / 32
p0 910.1± 1274
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 416.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.003129
Std Dev 0.9175
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

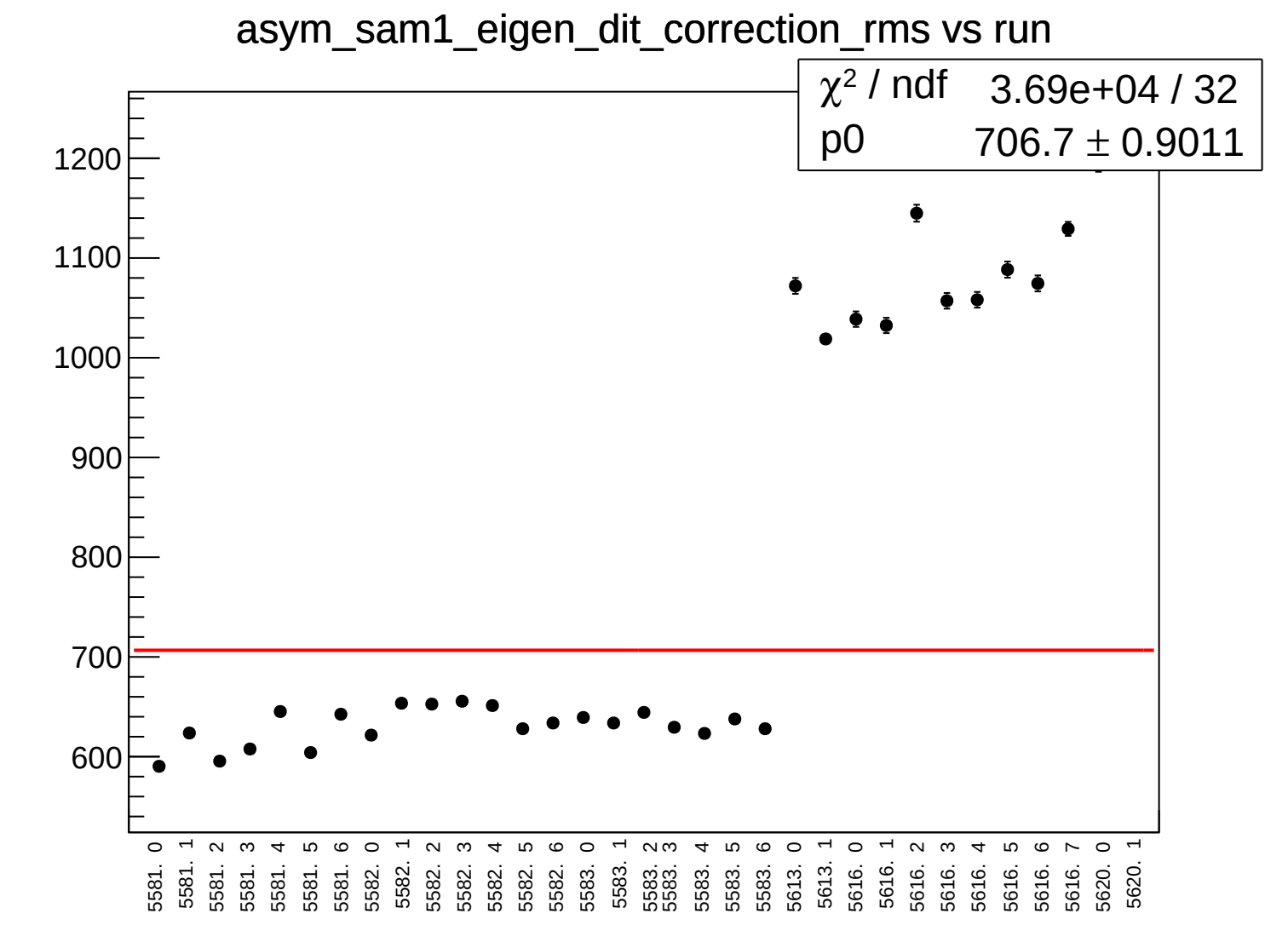

asym_sam1_dit_correction_rms vs run
χ² / ndf 3.69e+04 / 32
p0 706.7 ± 0.9011
1200
1100
1000
900
800
700
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

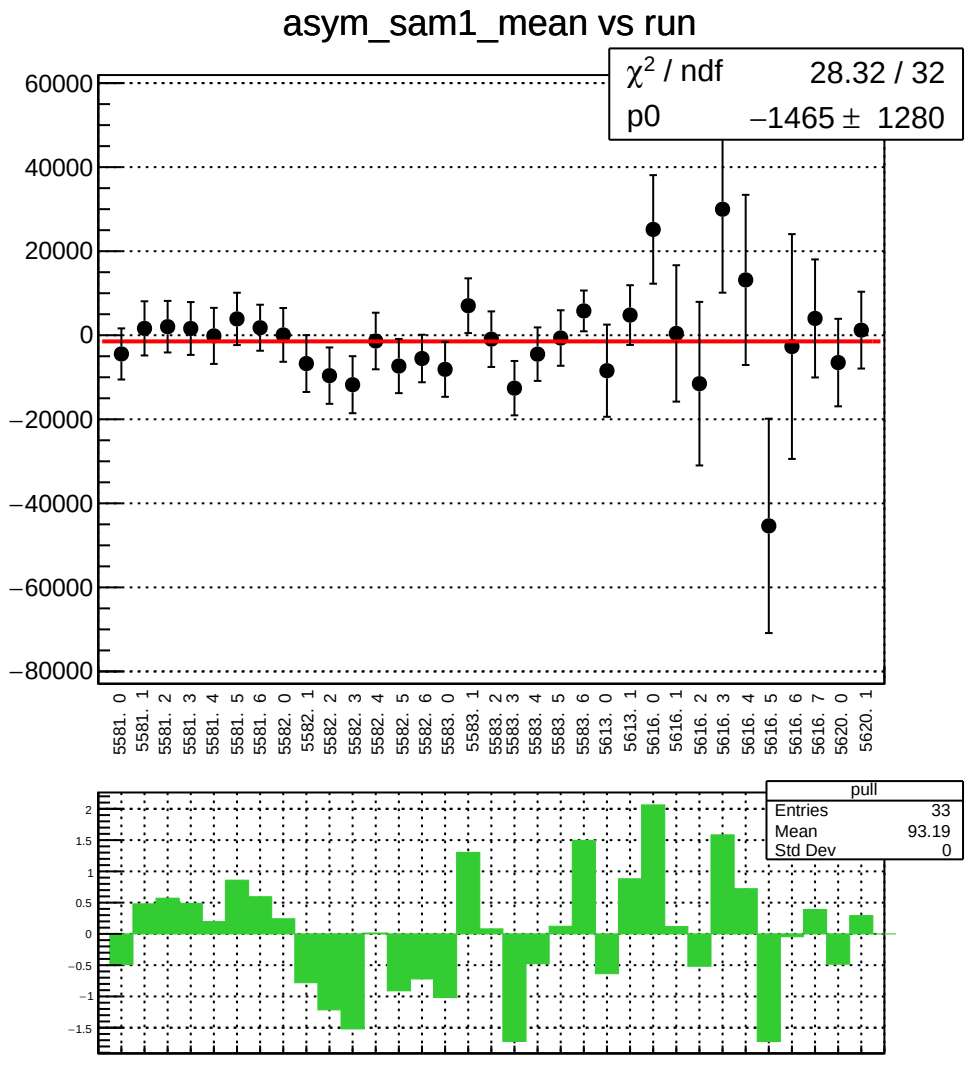

eigen_dit_asym_sam1_mean vs run
χ² / ndf 37.51 / 32
p0 −479.9 ± 265.6
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 15.43
Std Dev 0
2
1
0
−1
−2

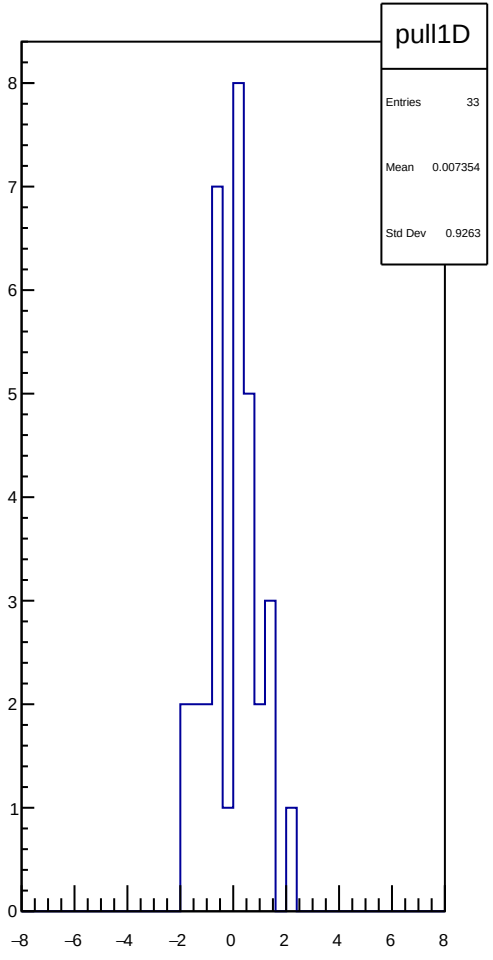

pull1D
Entries 33
Mean 0.08817
Std Dev 1.063
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

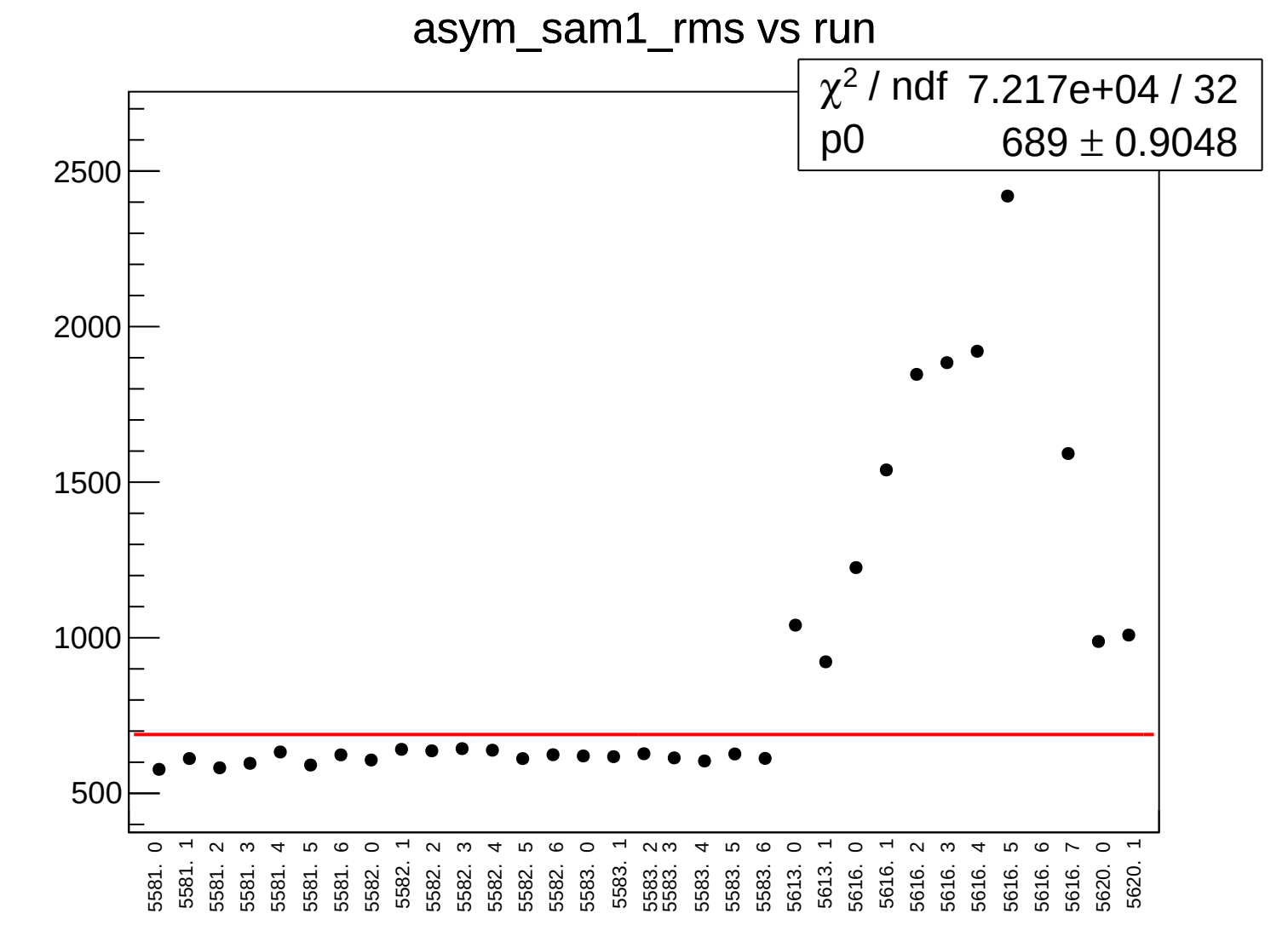

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 1.786e+05 / 32
p0 129.2 ± 0.1878
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

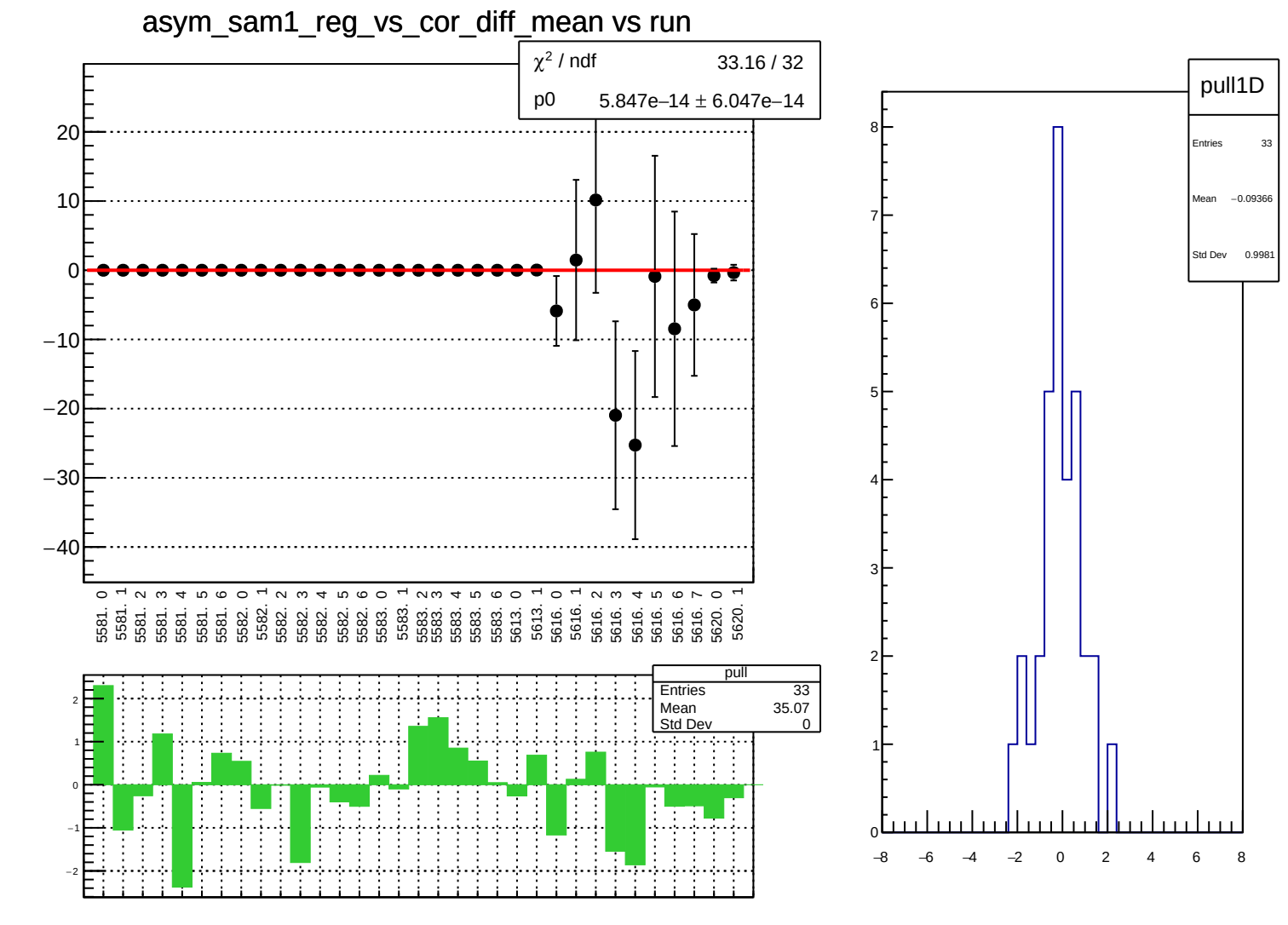

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 27.78 / 32
p0 910.1± 1274
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 416.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.003129
Std Dev 0.9175
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

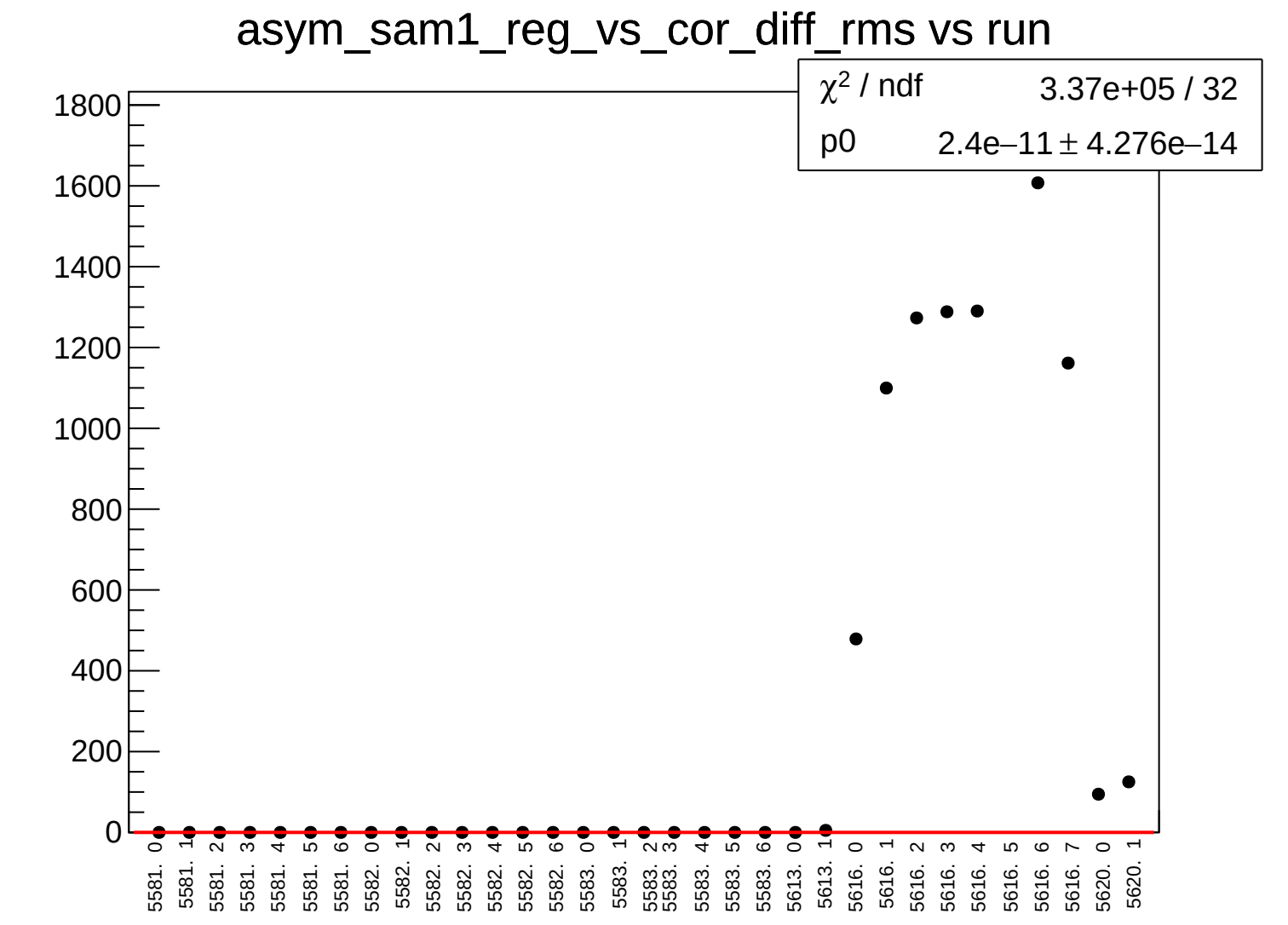

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 3.69e+04 / 32
p0 706.7 ± 0.9011
1200
1100
1000
900
800
700
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

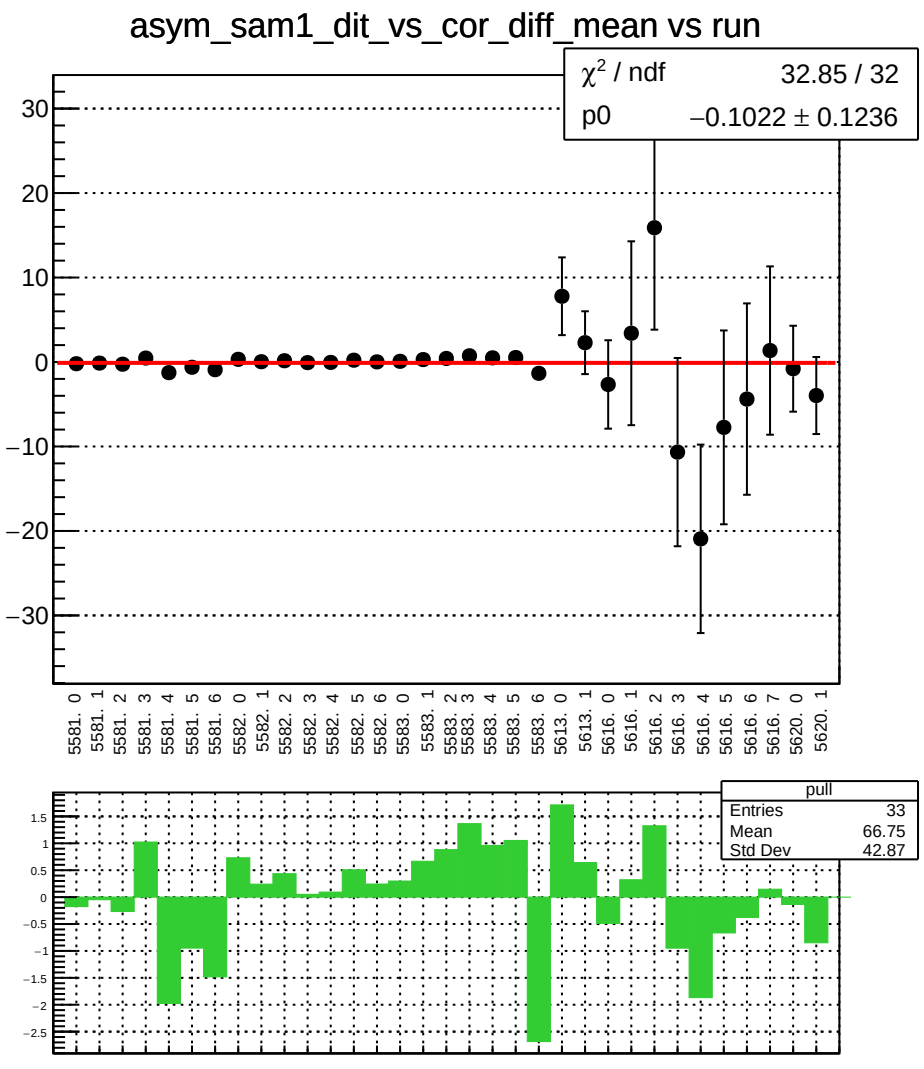

asym_sam1_mean vs run
χ² / ndf 28.32 / 32
p0 −1465 ± 1280
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 93.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

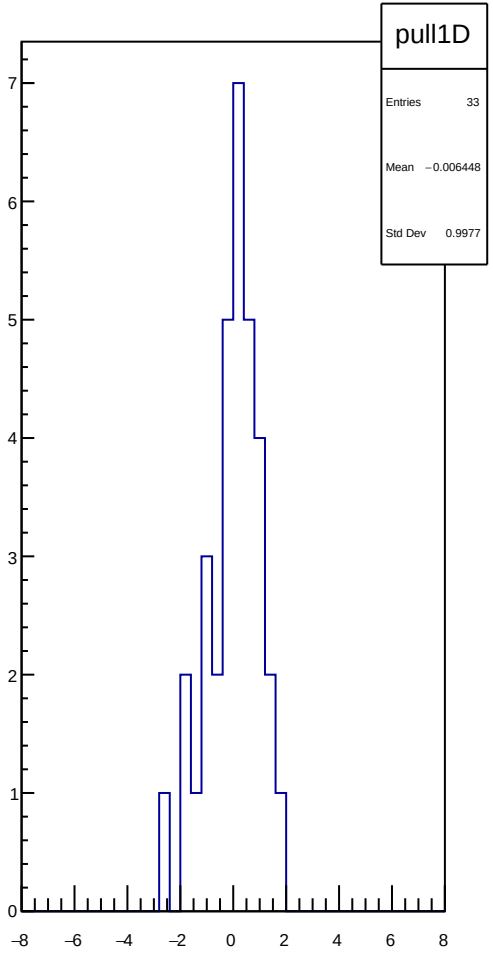

pull1D
Entries 33
Mean 0.007354
Std Dev 0.9263
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

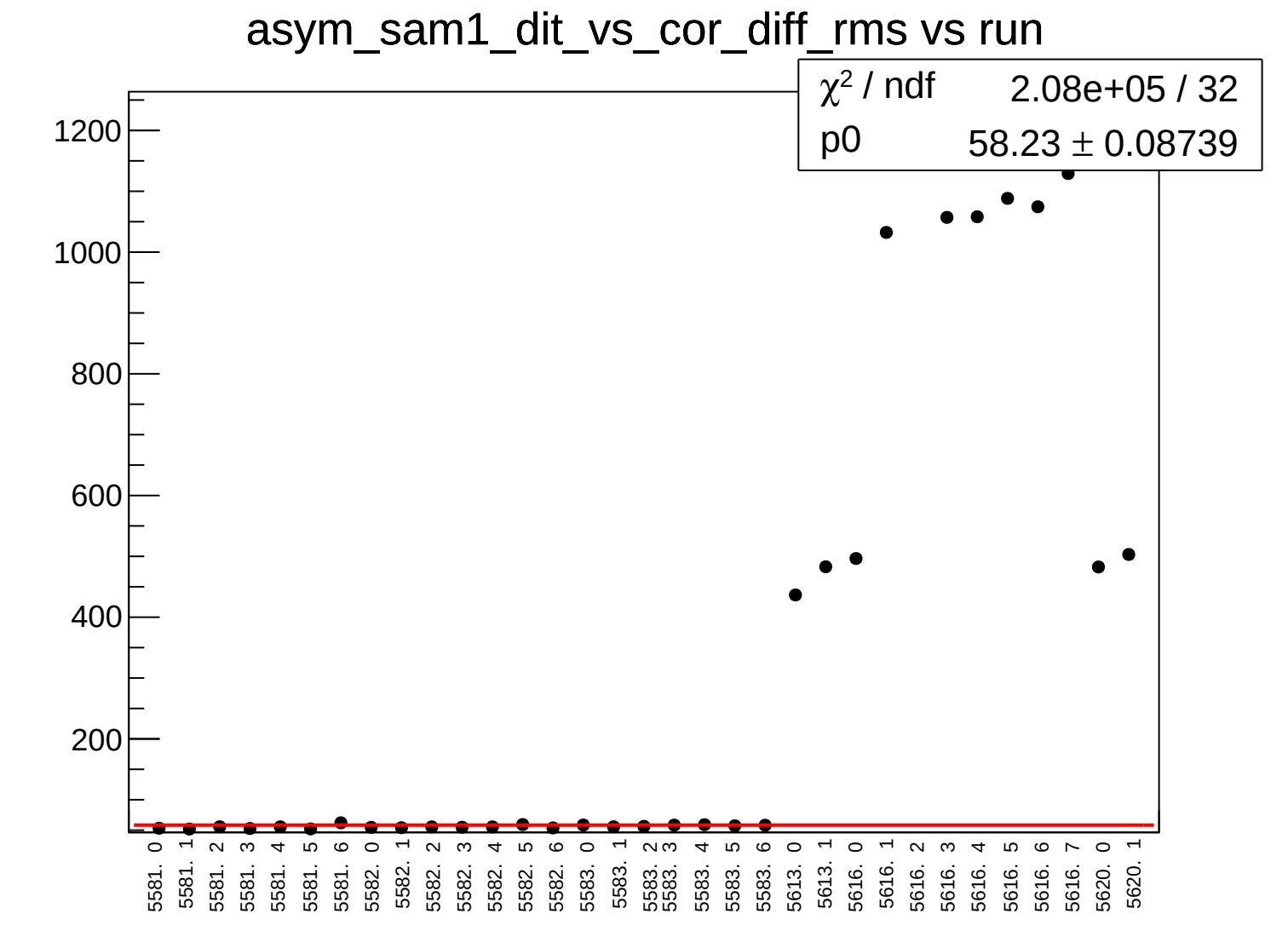

asym_sam1_rms vs run
χ² / ndf 7.217e+04 / 32
p0 689 ± 0.9048
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

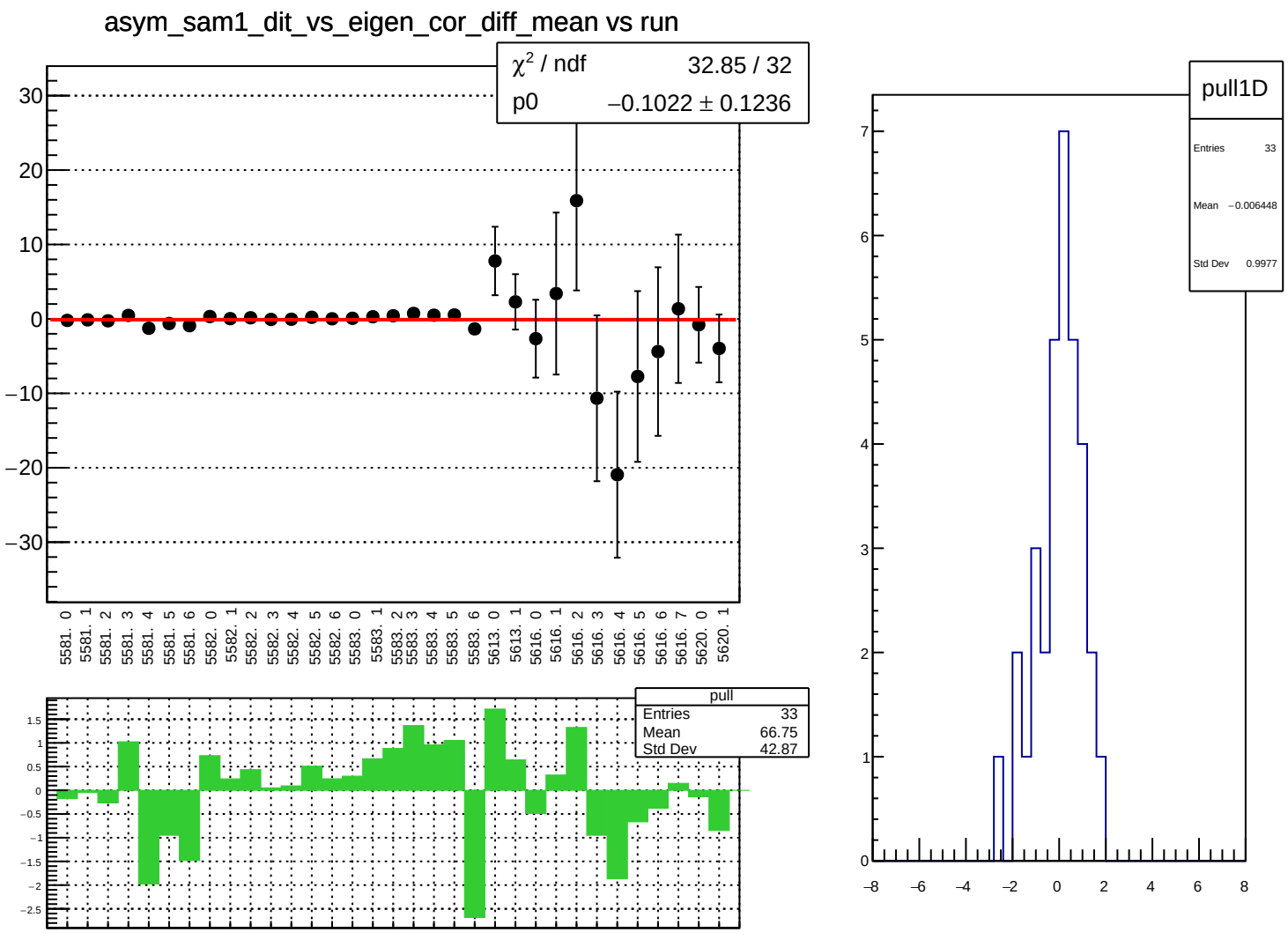

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 33.16 / 32
p0 5.847e−14 ± 6.047e−14
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.07
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.09366
Std Dev 0.9981
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

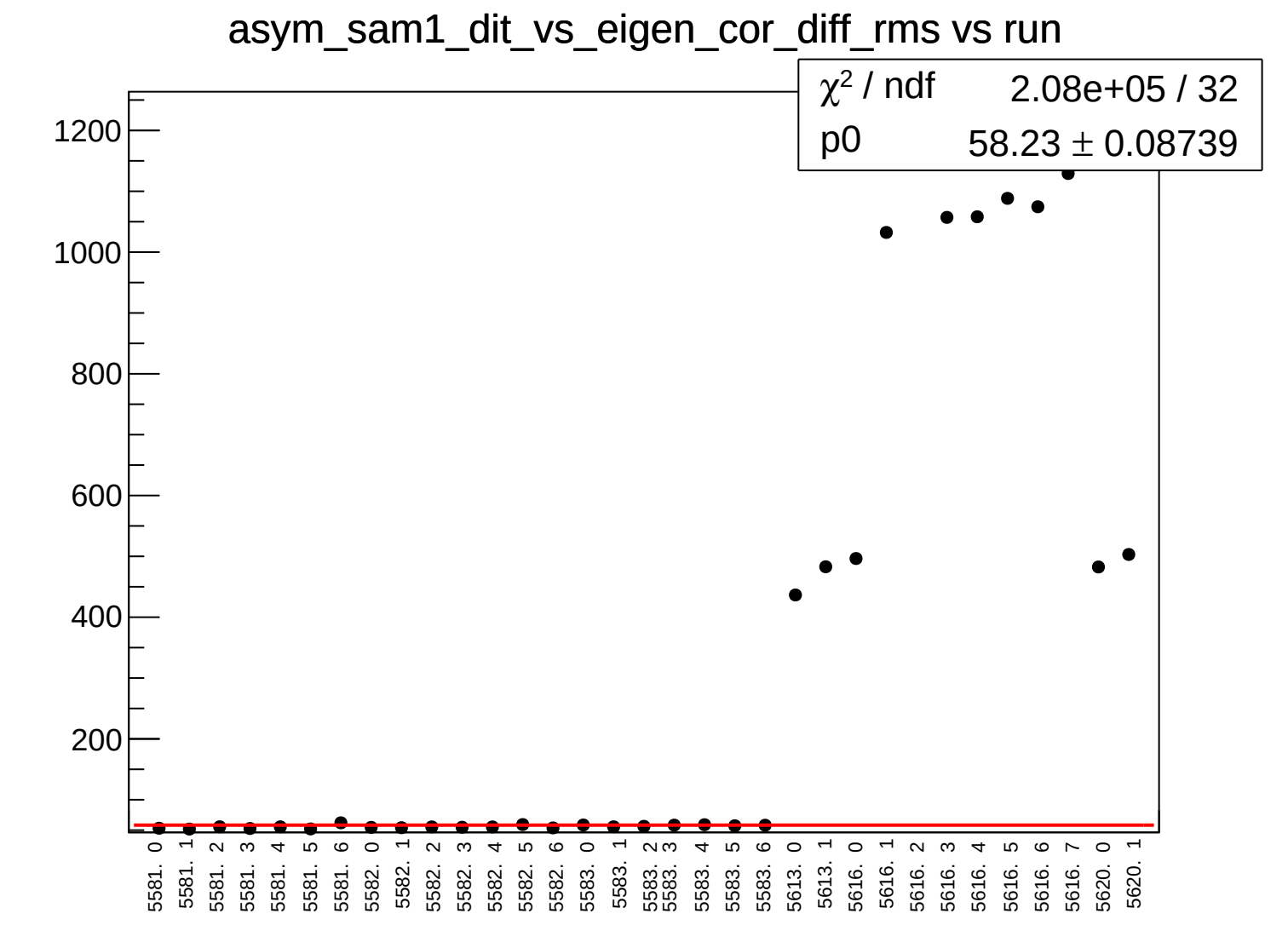

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 3.37e+05 / 32
p0 2.4e−11 ± 4.276e−14
1800
1600
1400
1200
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

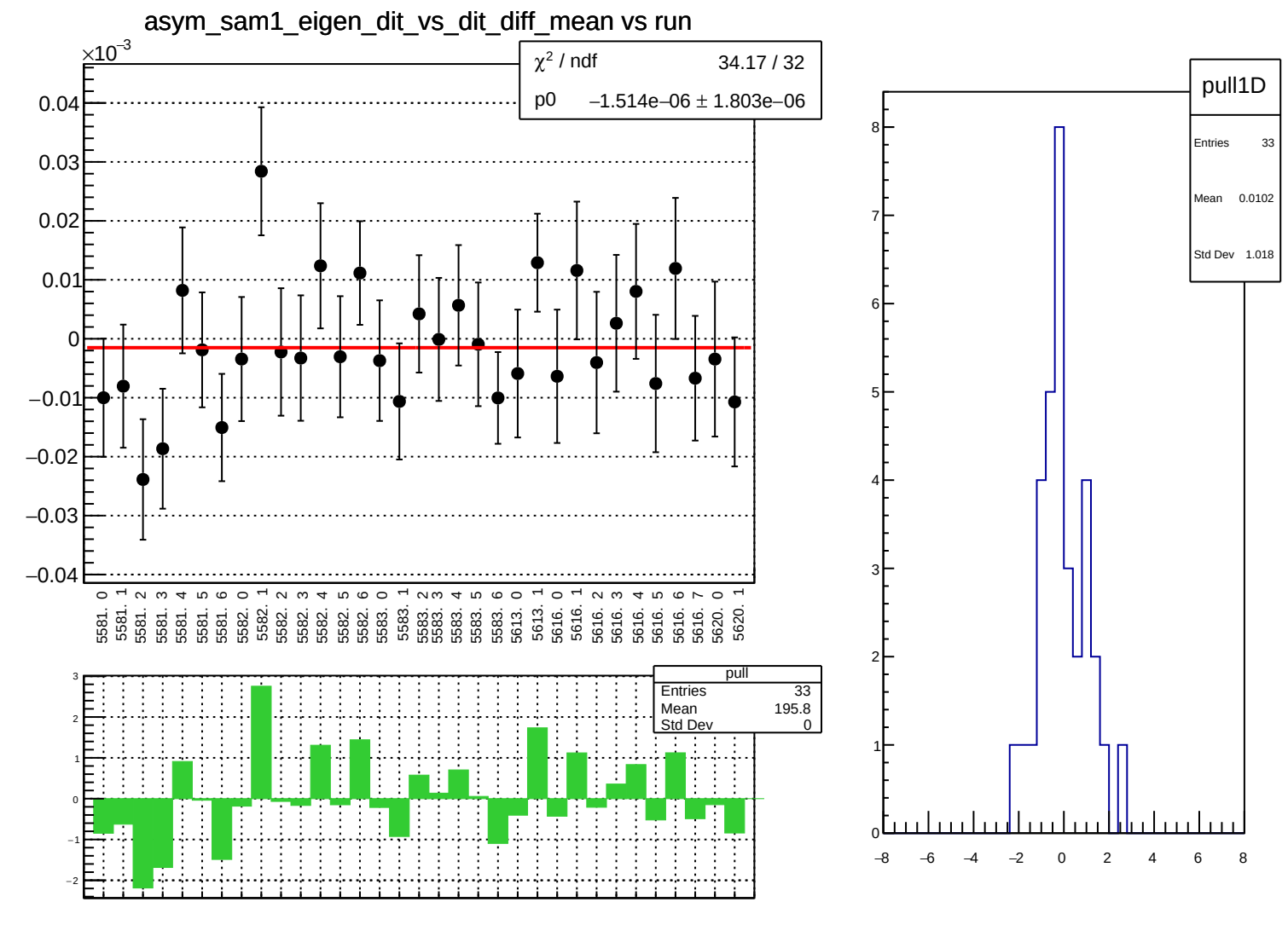

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 32.85 / 32
p0 −0.1022 ± 0.1236
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 66.75
Std Dev 42.87
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

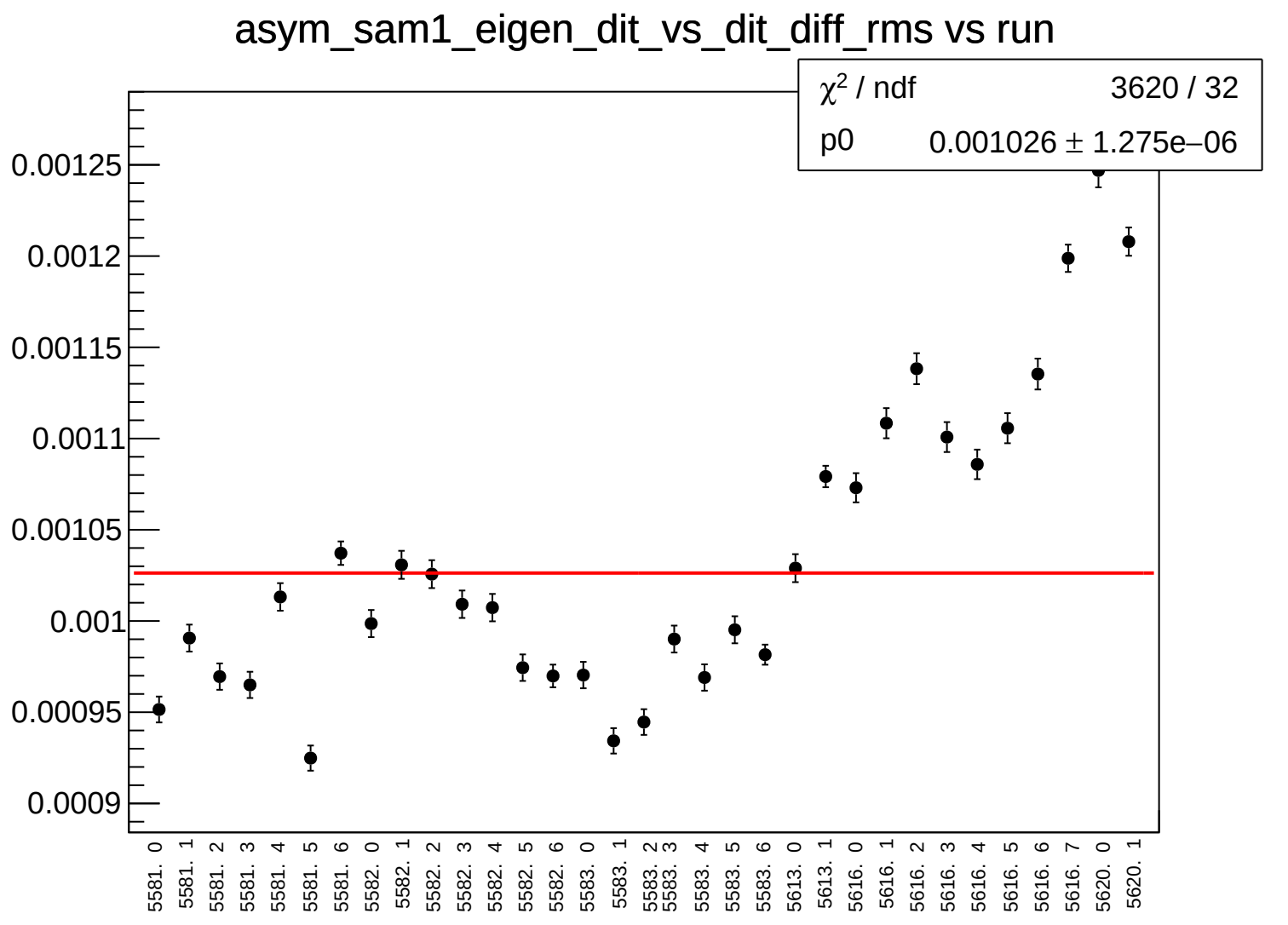

pull1D
Entries 33
Mean −0.006448
Std Dev 0.9977
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

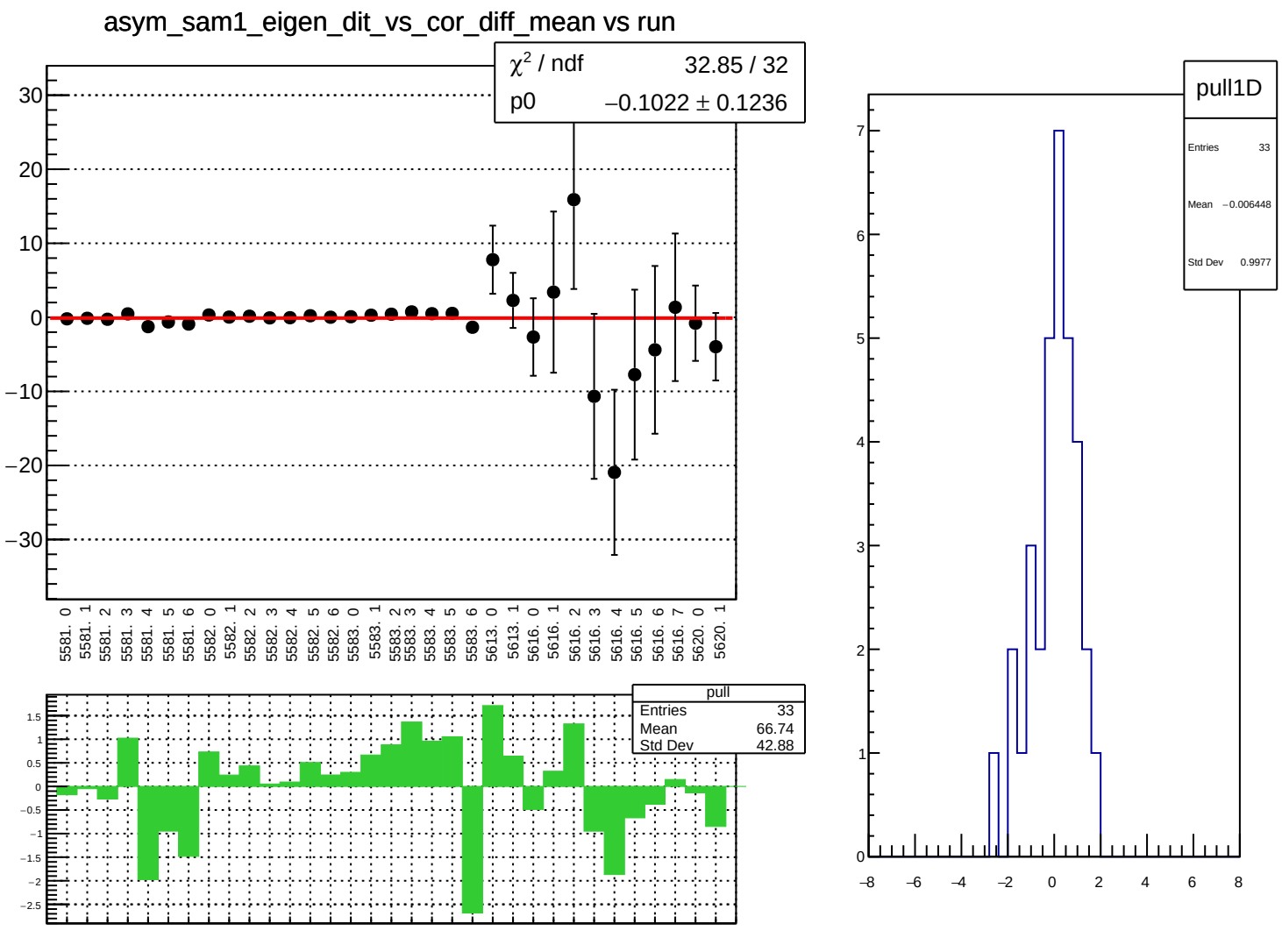

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.08e+05 / 32
p0 58.23 ± 0.08739
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

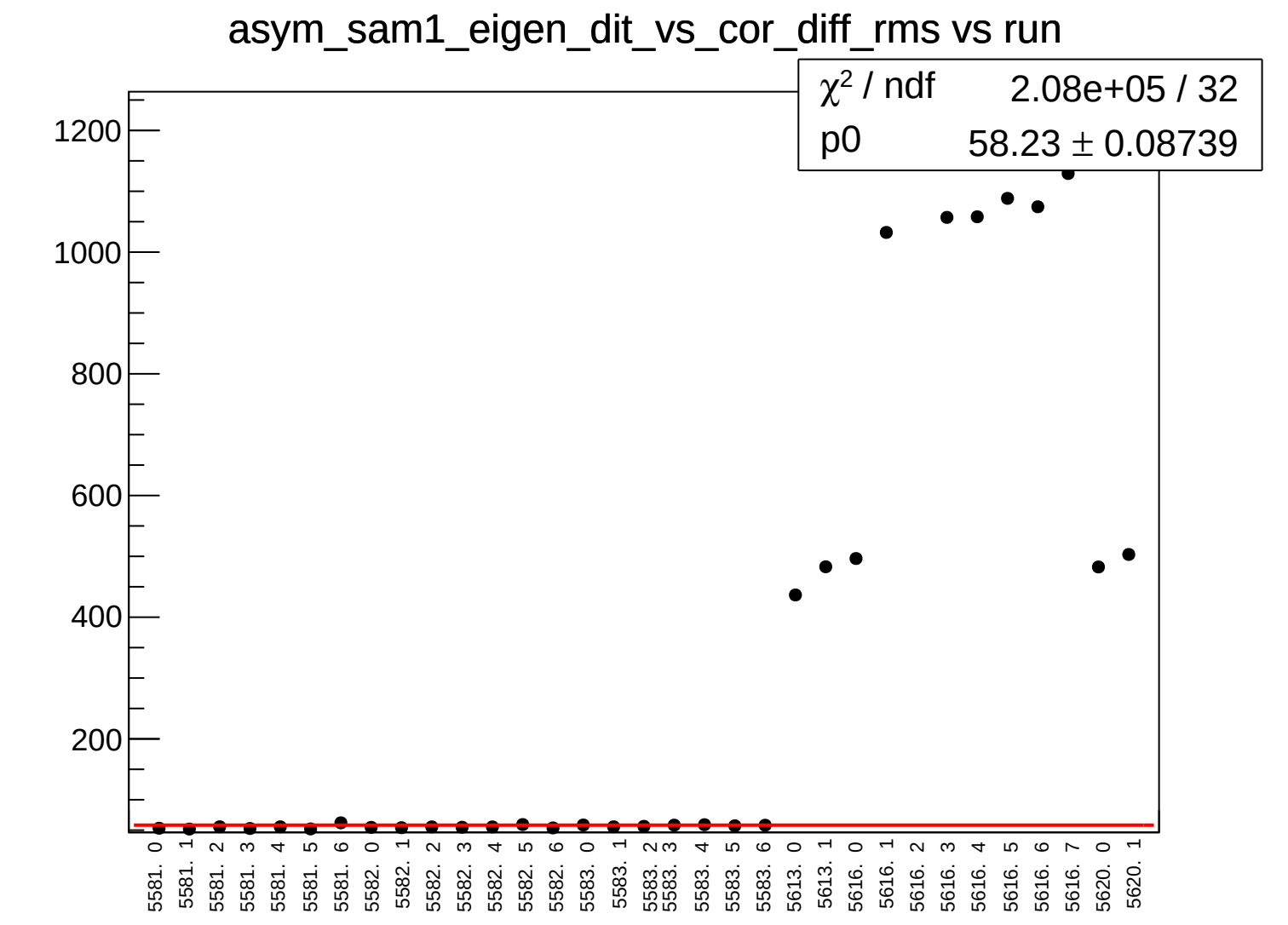

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.85 / 32
p0 −0.1022 ± 0.1236
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 66.75
Std Dev 42.87
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.006448
Std Dev 0.9977
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

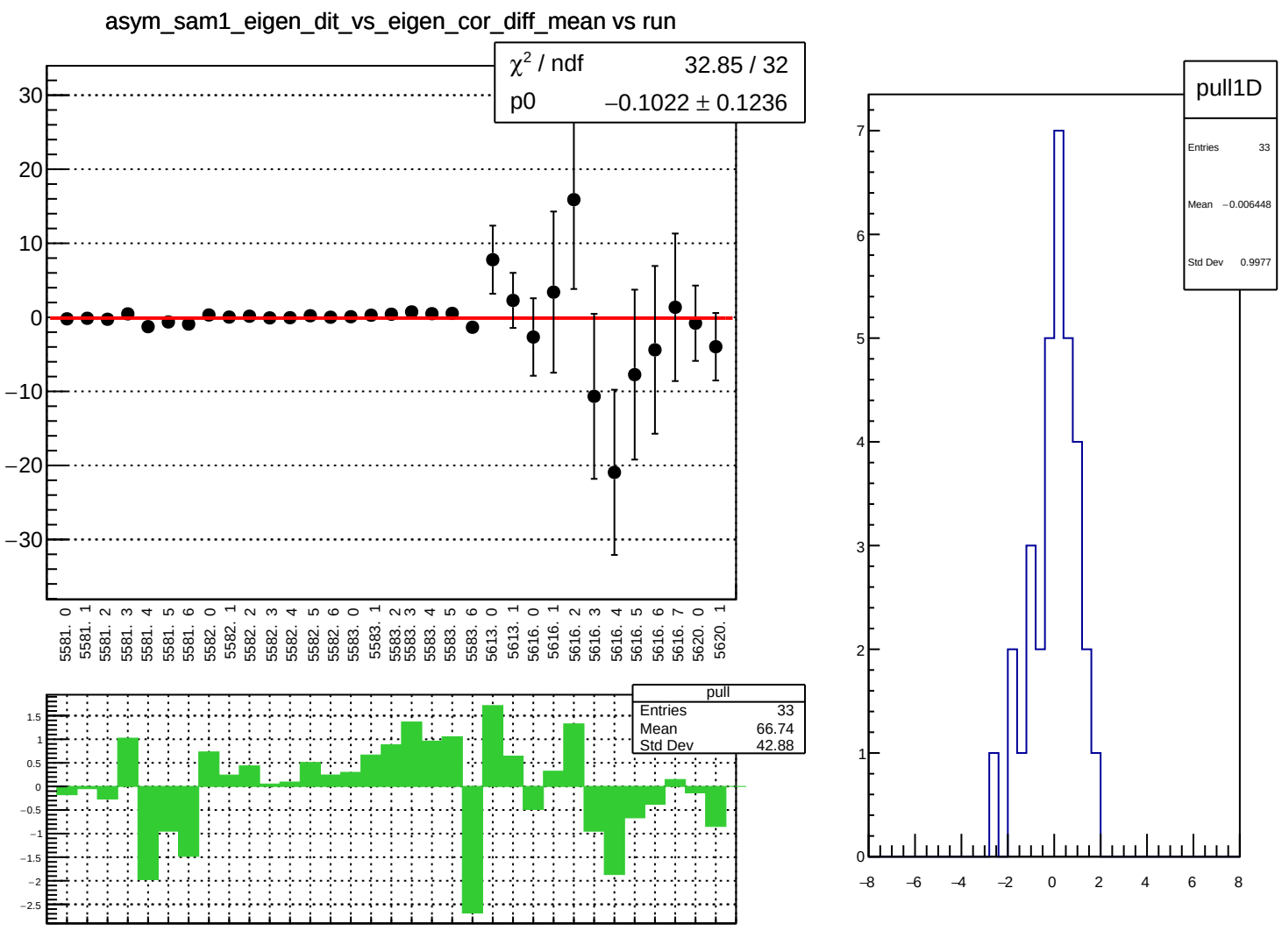

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.08e+05 / 32
p0 58.23 ± 0.08739
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

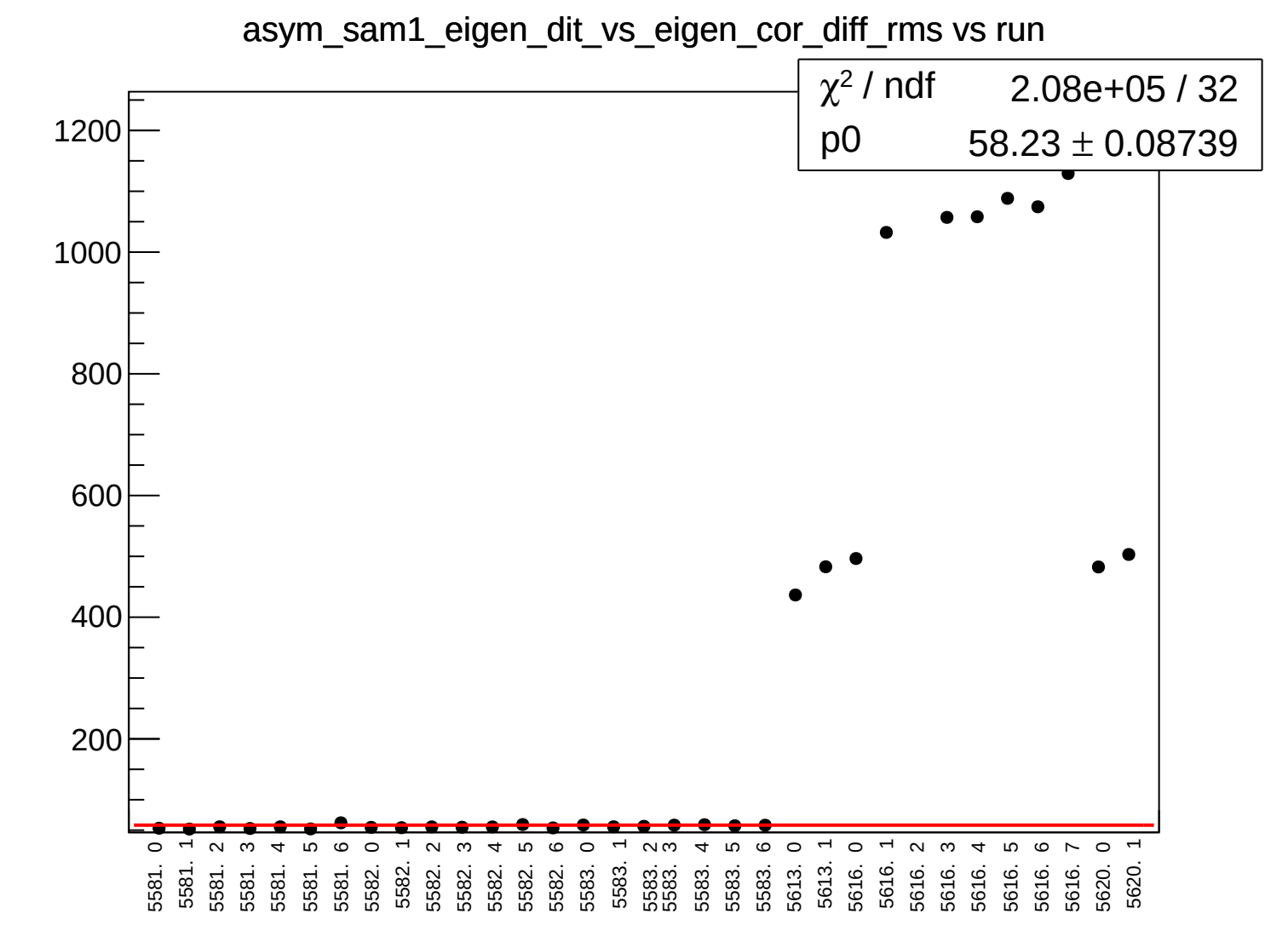

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 34.17 / 32
p0 −1.514e−06 ± 1.803e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 195.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.0102
Std Dev 1.018
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

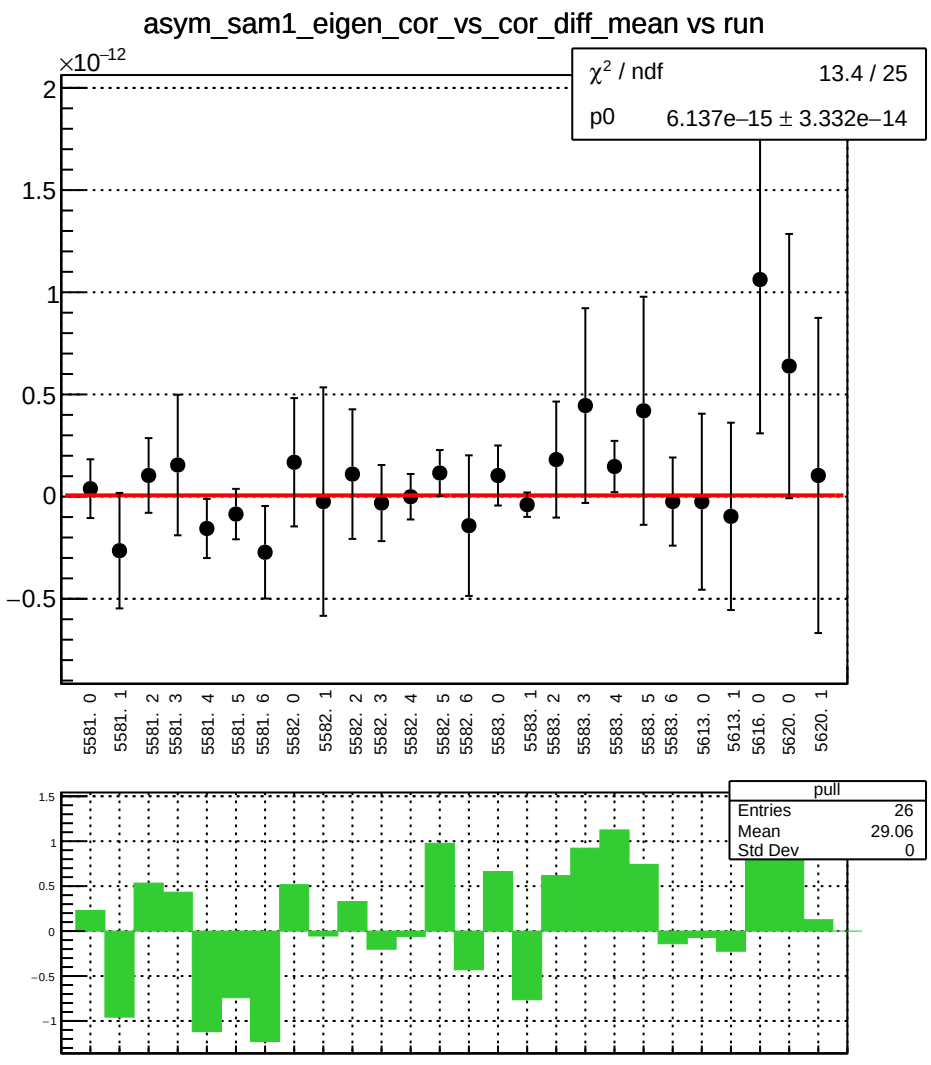

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3620 / 32
p0 0.001026 ± 1.275e−06
0.00125
0.0012
0.00115
0.0011
0.00105
0.001
0.00095
0.0009
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

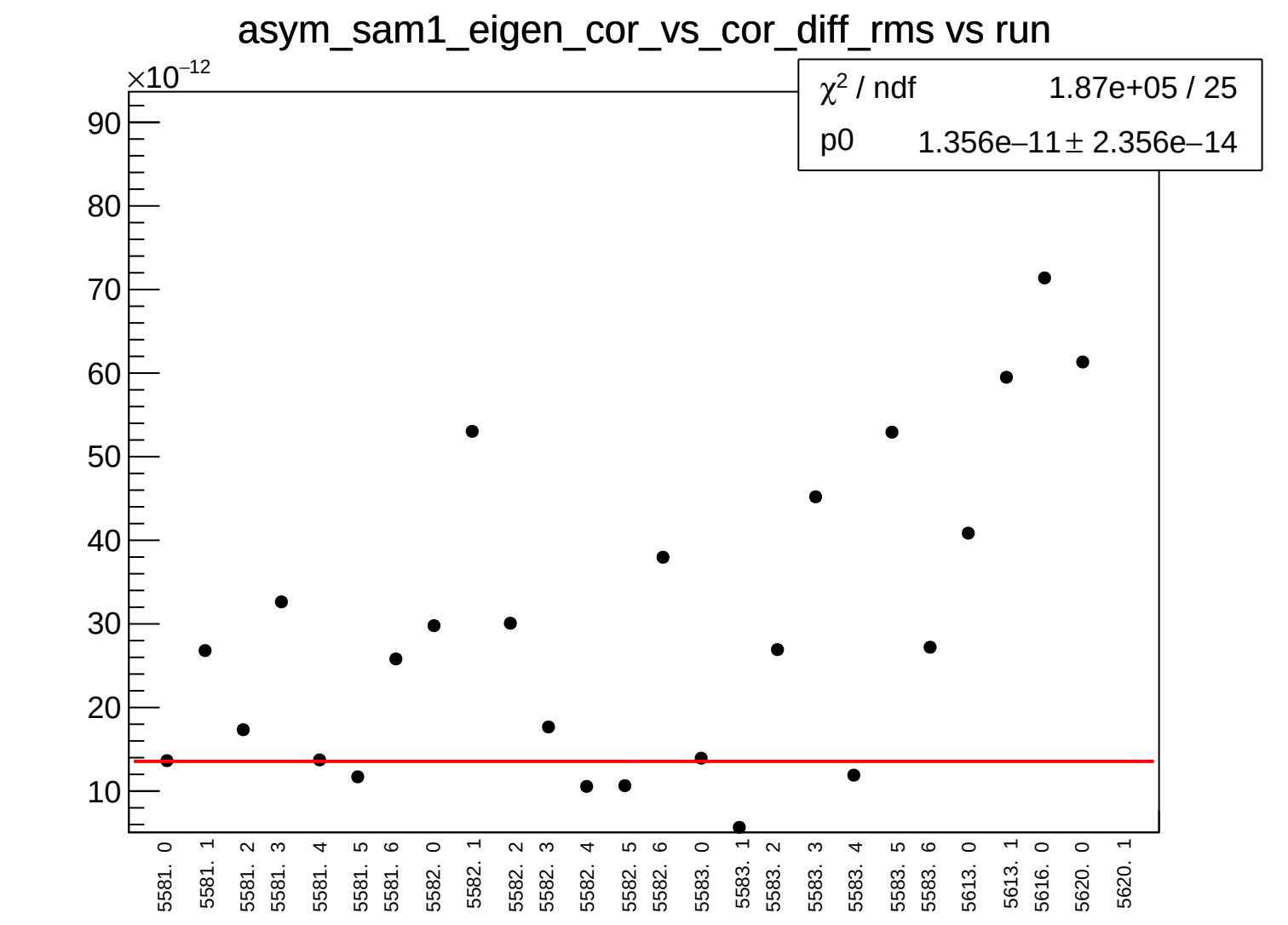

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.85 / 32
p0 −0.1022 ± 0.1236
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 66.74
Std Dev 42.88
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.006448
Std Dev 0.9977
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

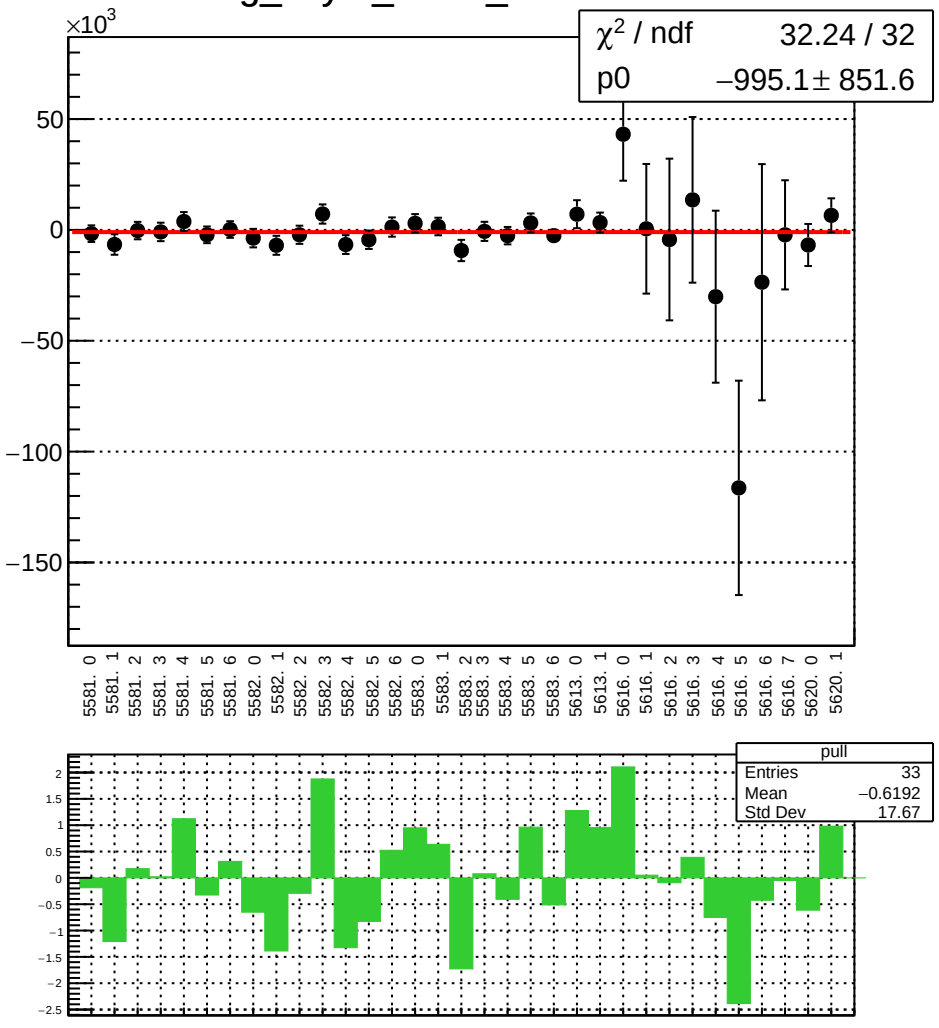

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.08e+05 / 32
p0 58.23 ± 0.08739
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

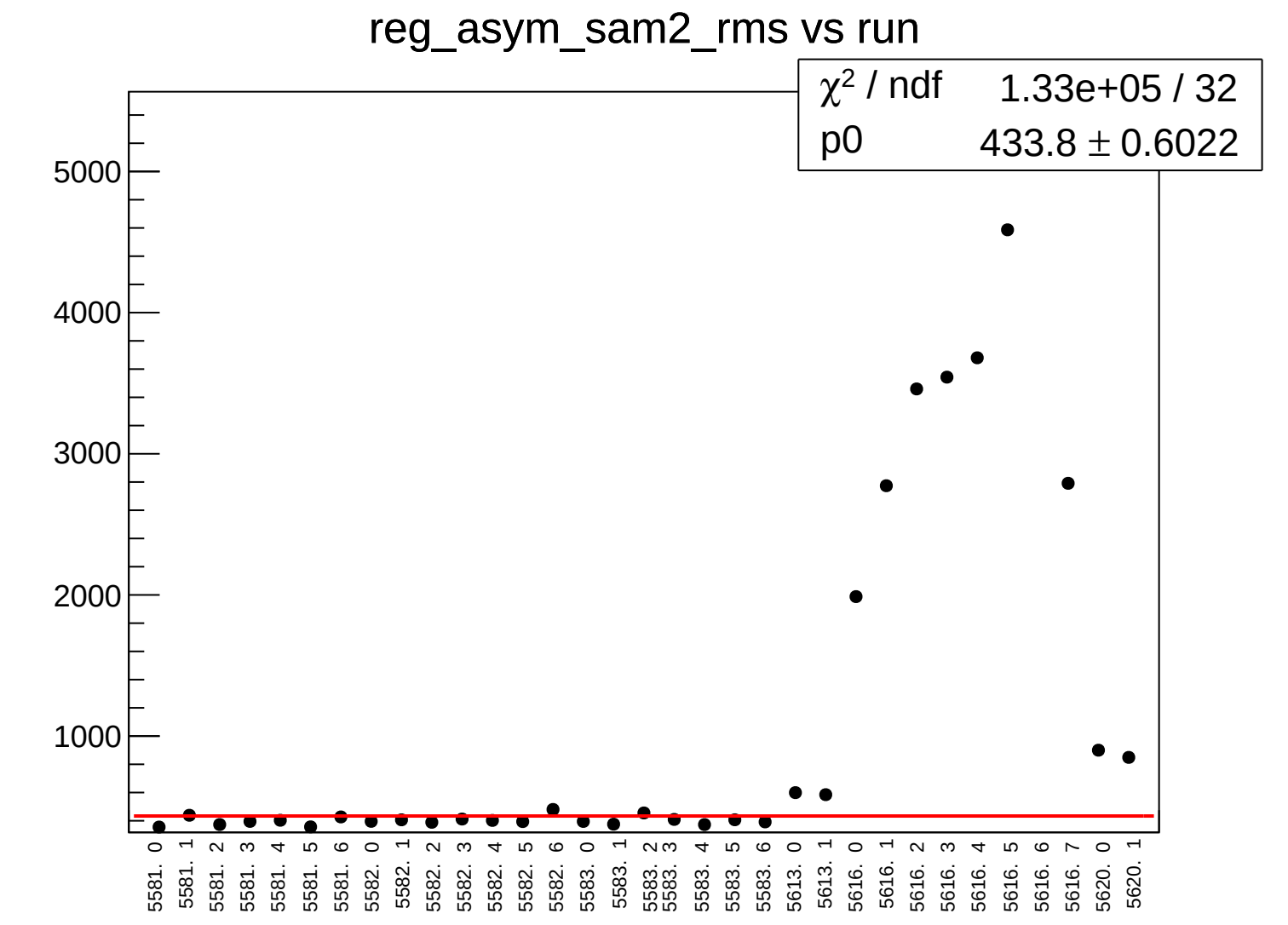

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.85 / 32
p0 −0.1022 ± 0.1236
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 66.74
Std Dev 42.88
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.006448
Std Dev 0.9977
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

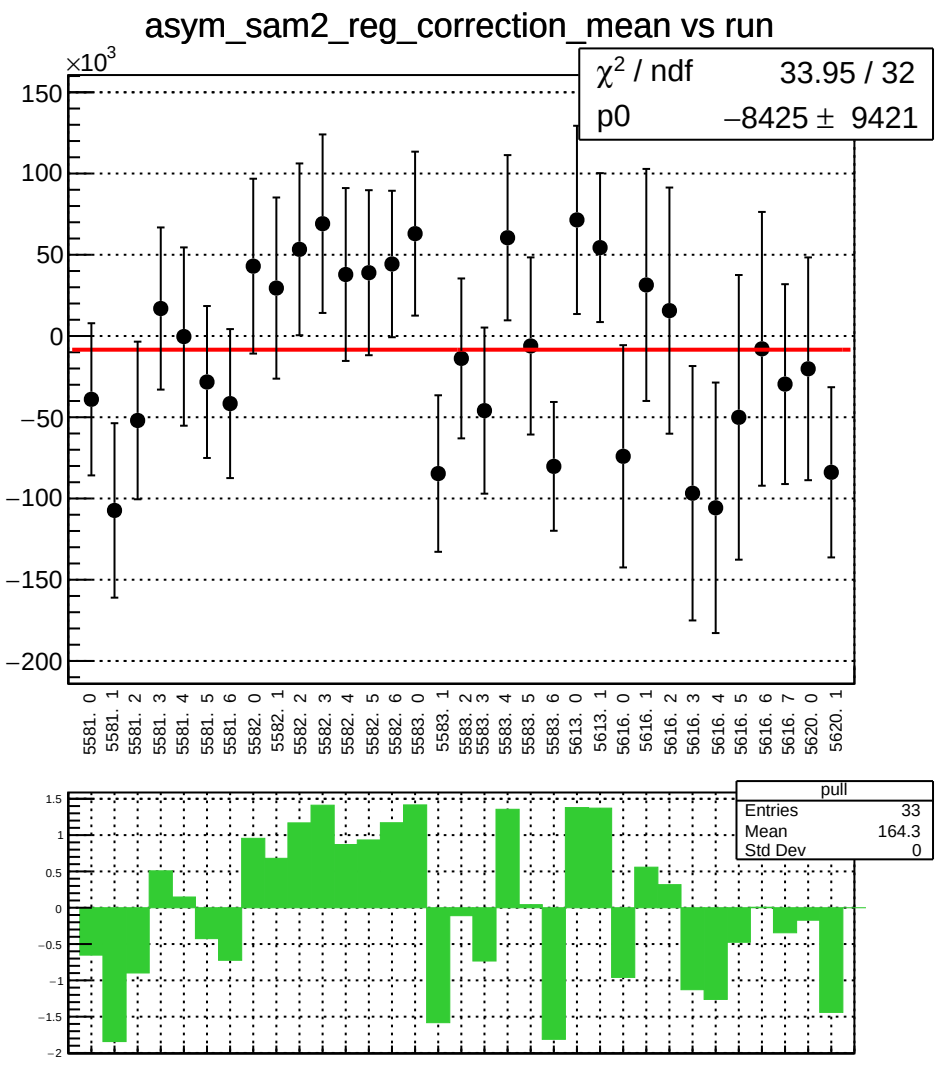

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.08e+05 / 32
p0 58.23 ± 0.08739
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

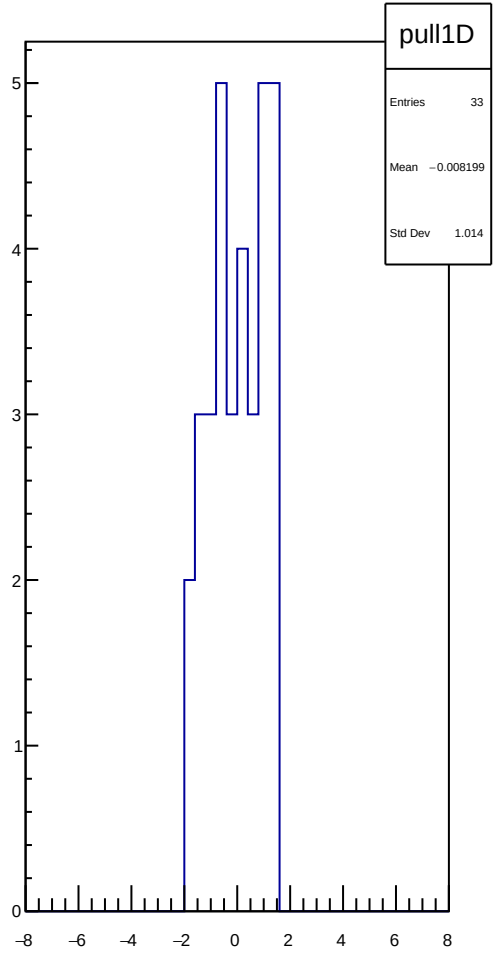

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 13.4 / 25
p0 6.137e−15 ± 3.332e−14
2
1.5
1
0.5
0
−0.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 29.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 26
Mean 0.1385
Std Dev 0.7044
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

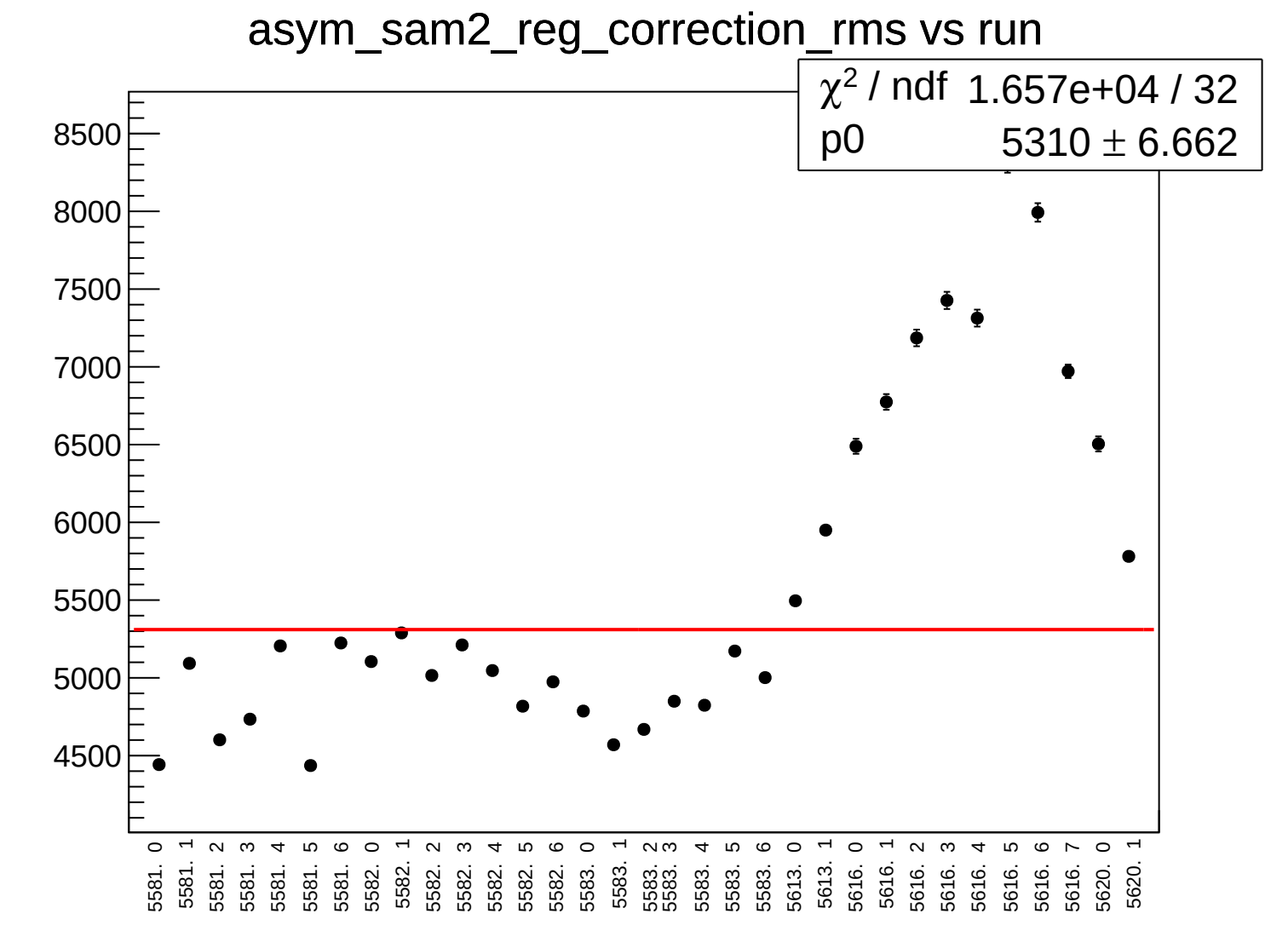

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.87e+05 / 25
p0 1.356e−11 ± 2.356e−14
90
80
70
60
50
40
30
20
10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

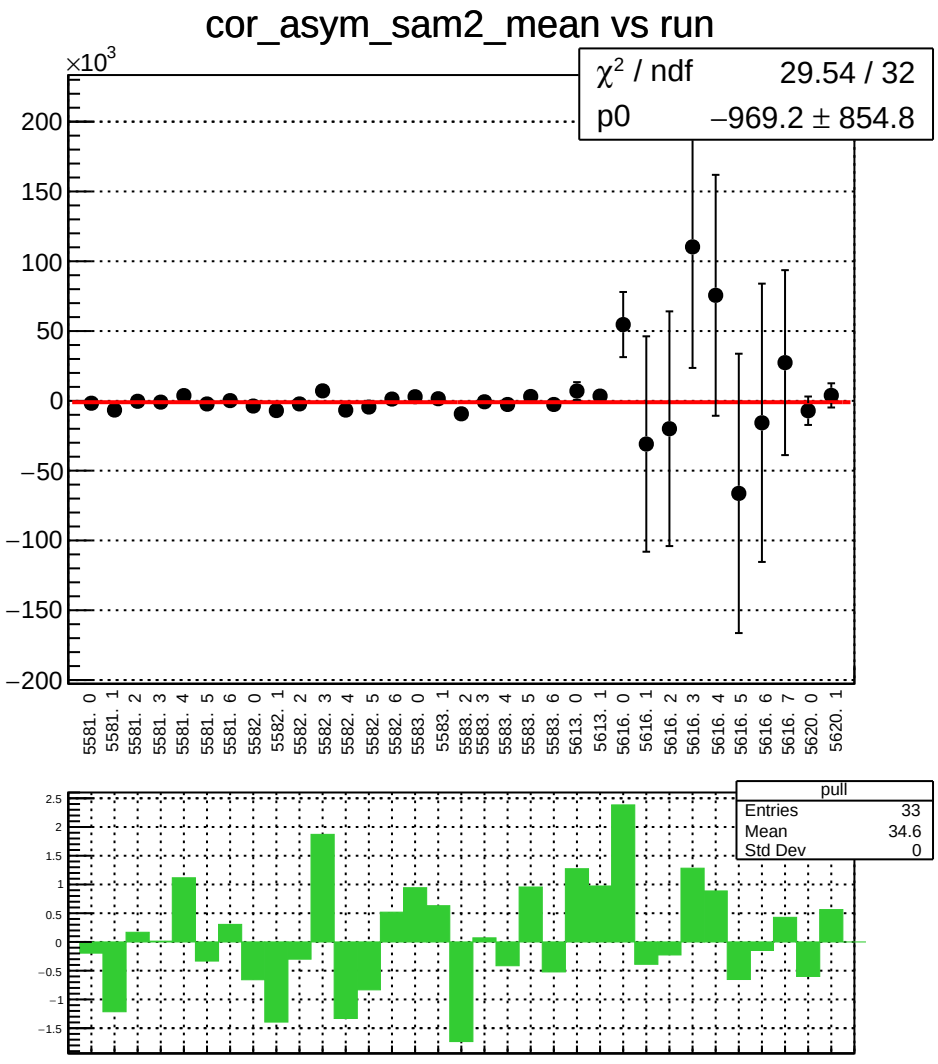

reg_asym_sam2_mean vs run
×10^3
χ^2 / ndf 32.24 / 32
p0 −995.1± 851.6
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.6192
Std Dev 17.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.02269
Std Dev 0.9881
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

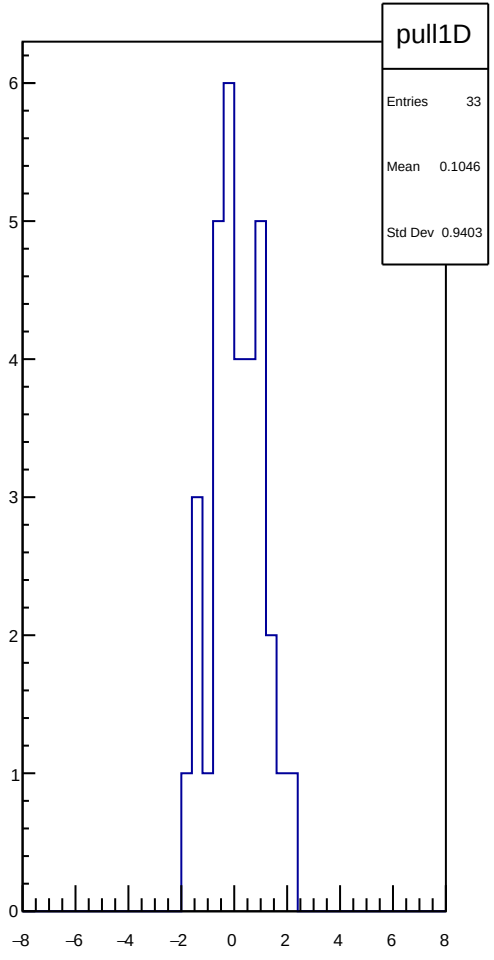

reg_asym_sam2_rms vs run
χ² / ndf 1.33e+05 / 32
p0 433.8 ± 0.6022
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

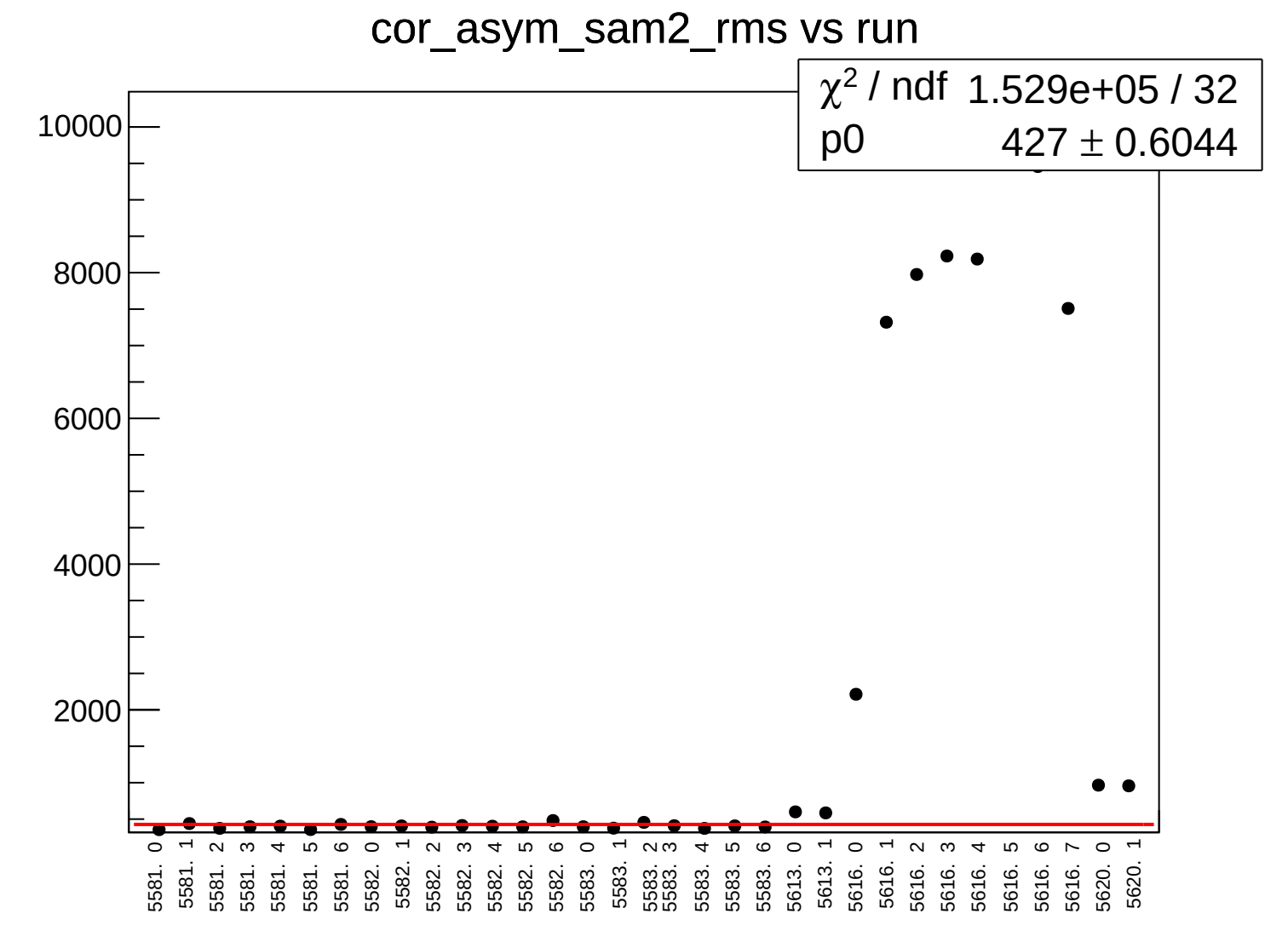

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 33.95 / 32
p0 −8425 ± 9421
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 164.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

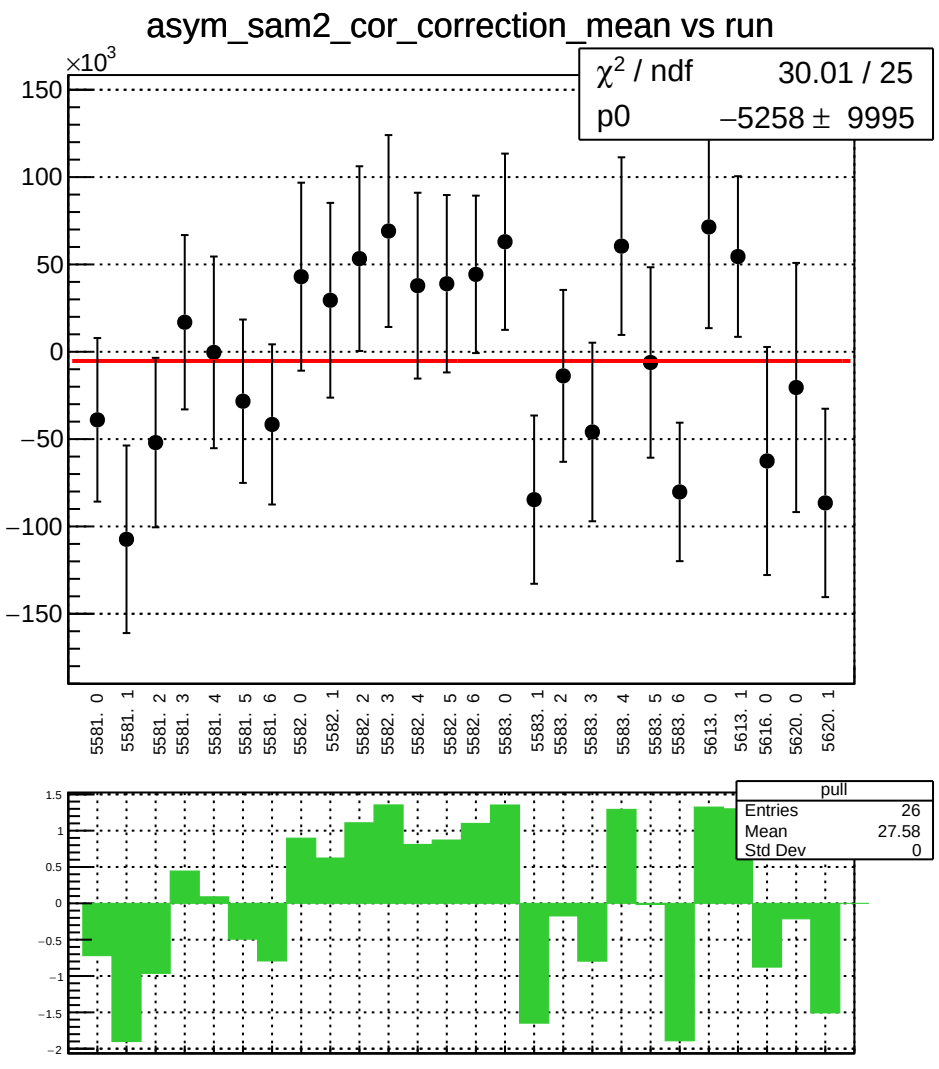

pull1D
Entries 33
Mean −0.008199
Std Dev 1.014
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

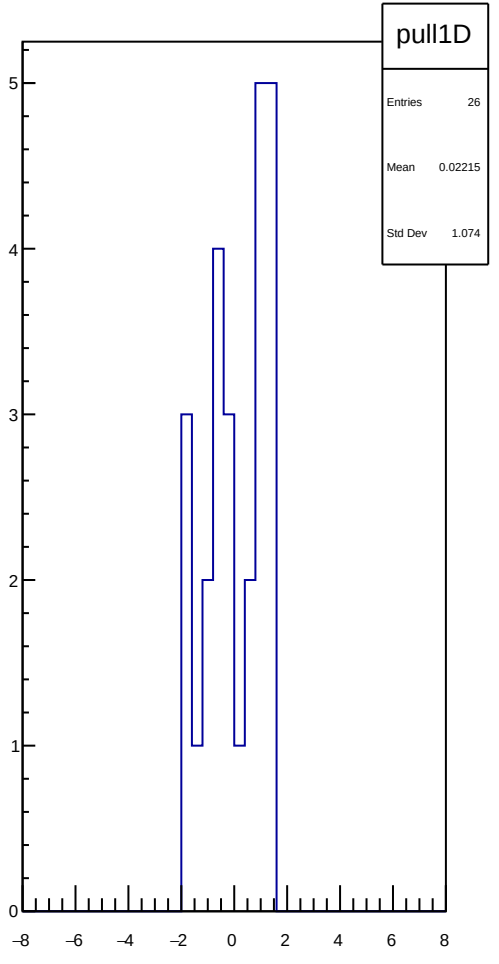

asym_sam2_reg_correction_rms vs run
χ² / ndf 1.657e+04 / 32
p0 5310 ± 6.662
8500
8000
7500
7000
6500
6000
5500
5000
4500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

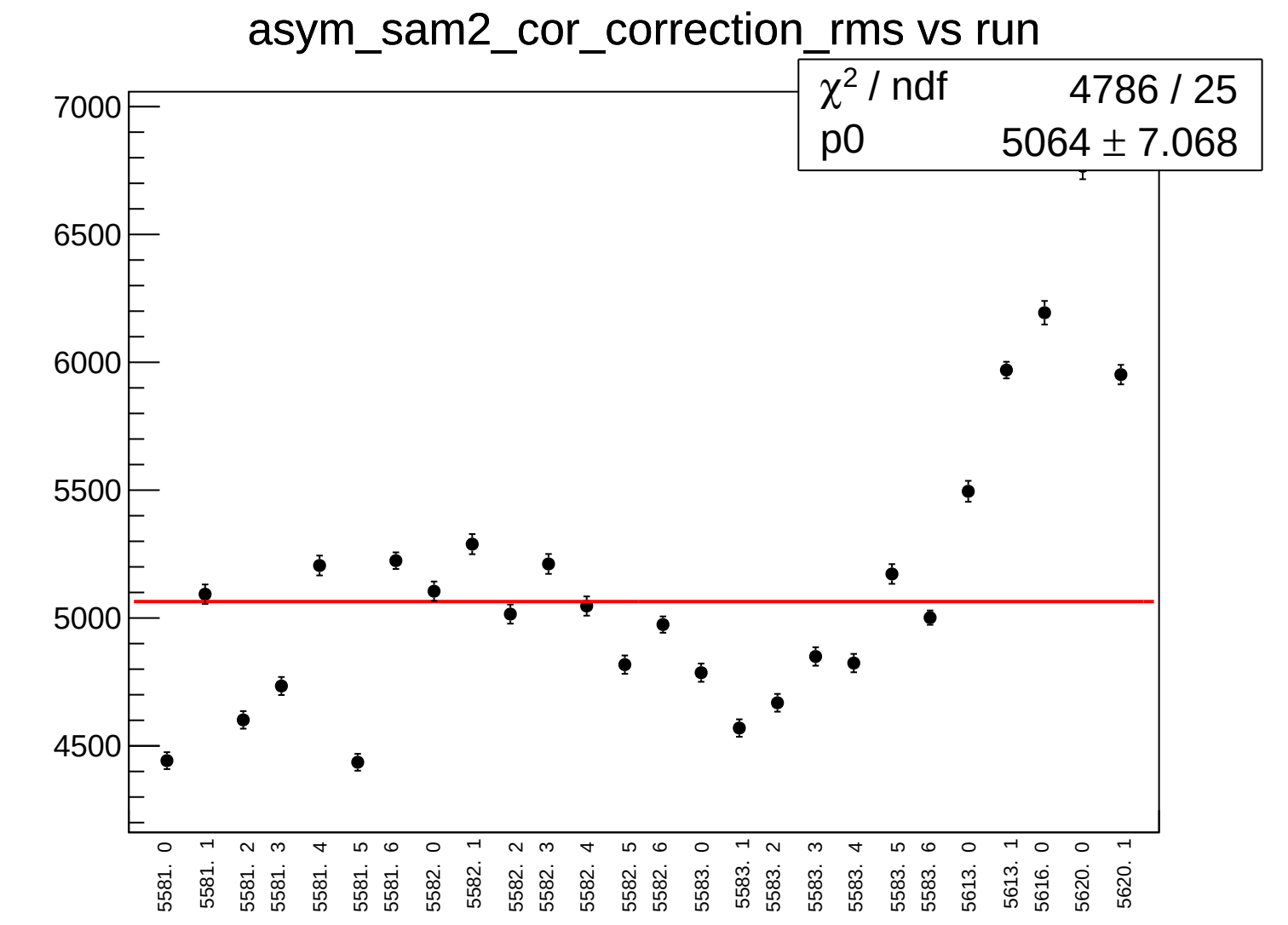

cor_asym_sam2_mean vs run
×10^3
χ² / ndf 29.54 / 32
p0 −969.2 ± 854.8
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

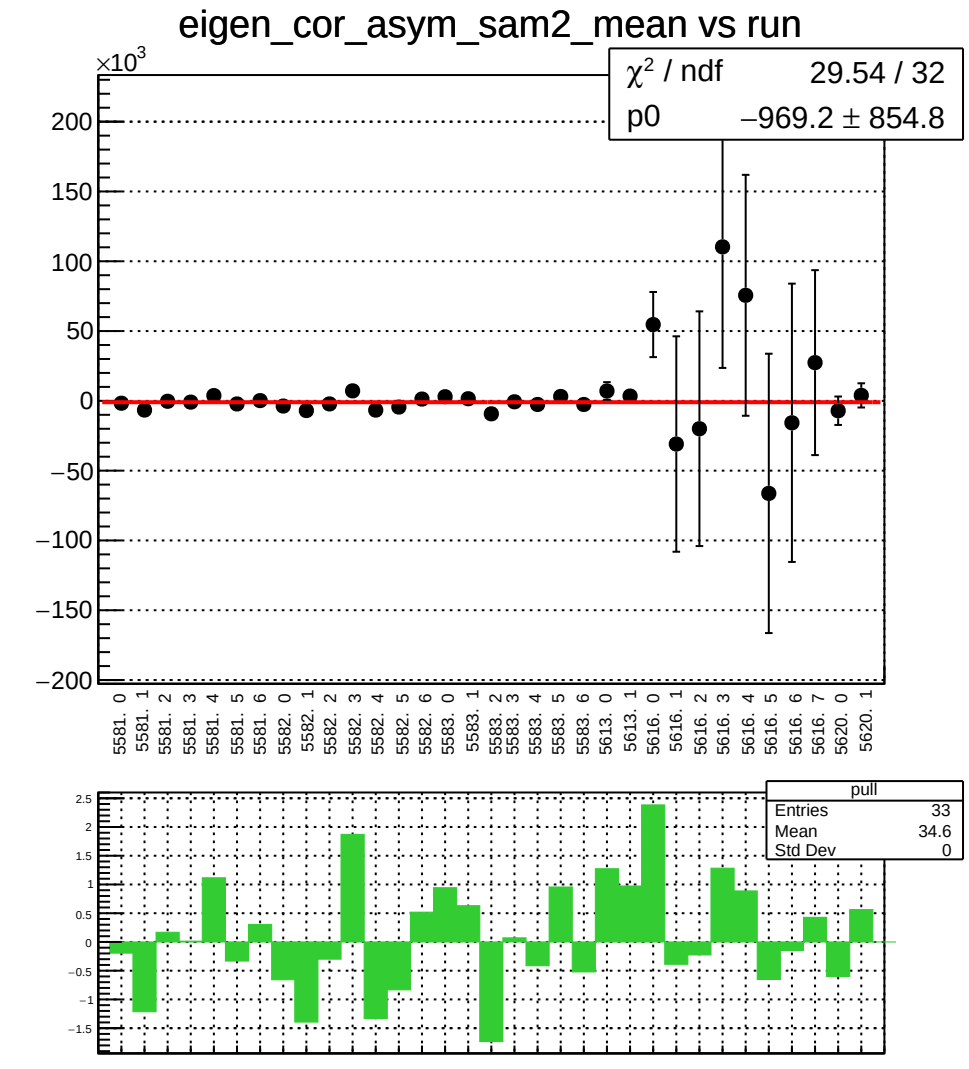

pull1D
Entries 33
Mean 0.1046
Std Dev 0.9403
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

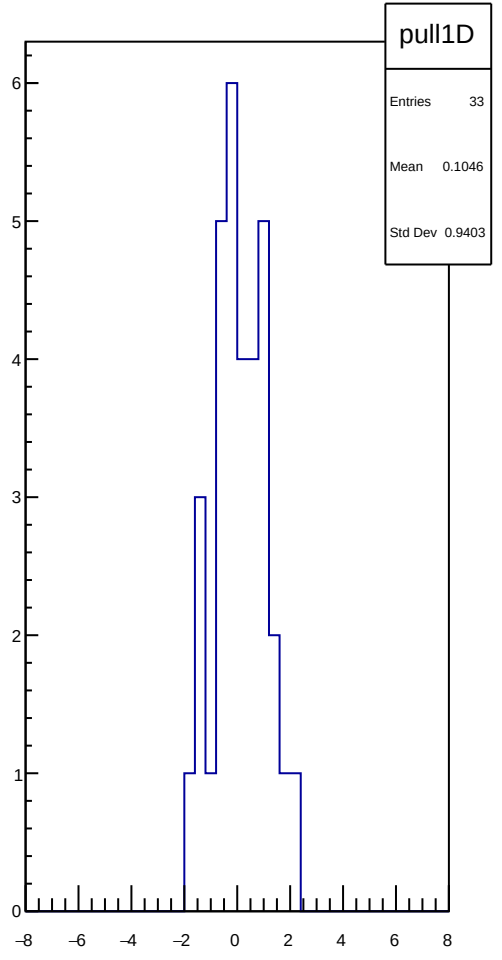

cor_asym_sam2_rms vs run
χ² / ndf 1.529e+05 / 32
p0 427 ± 0.6044
10000
8000
6000
4000
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

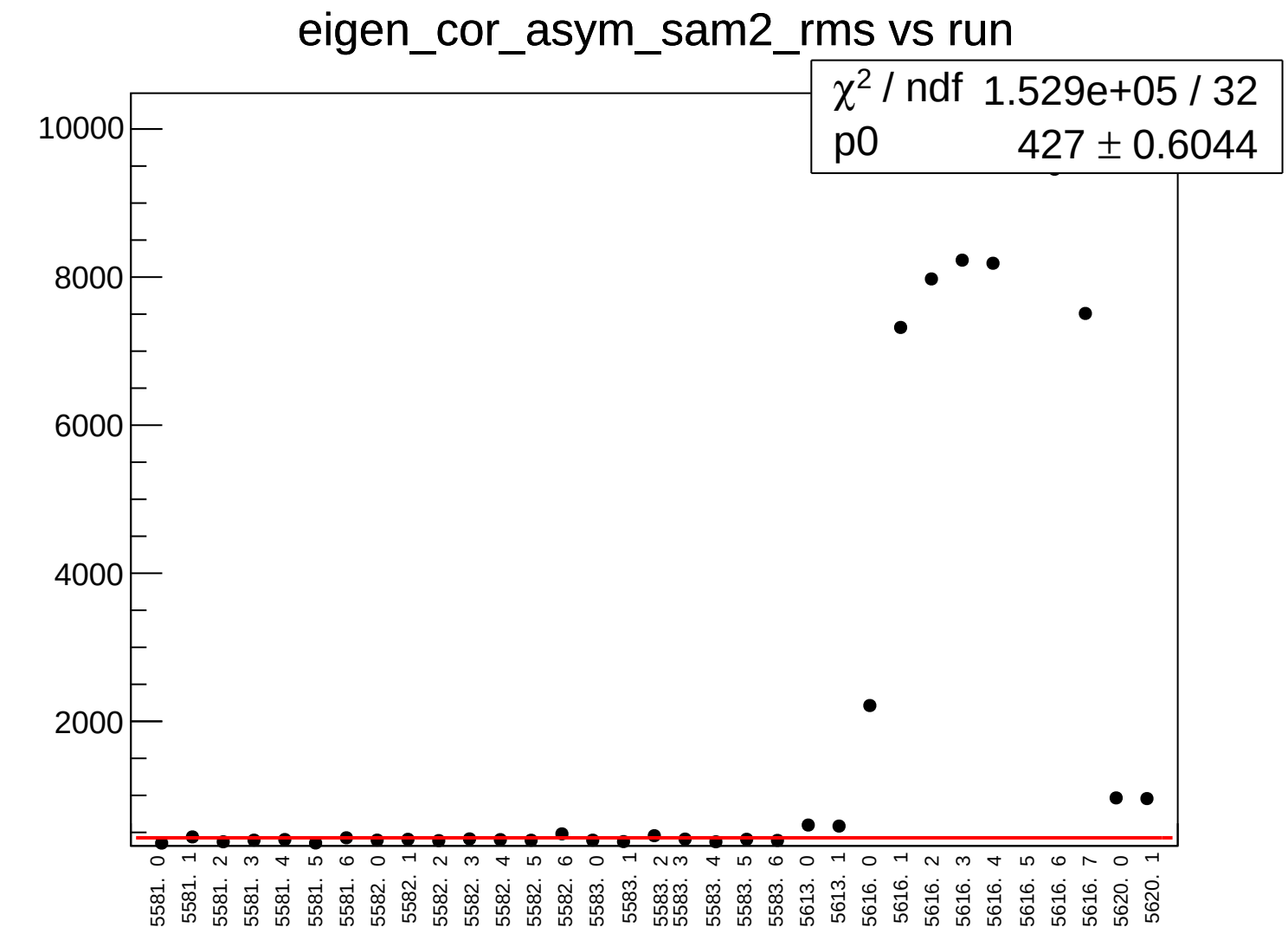

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 30.01 / 25
p0 −5258 ± 9995
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 27.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

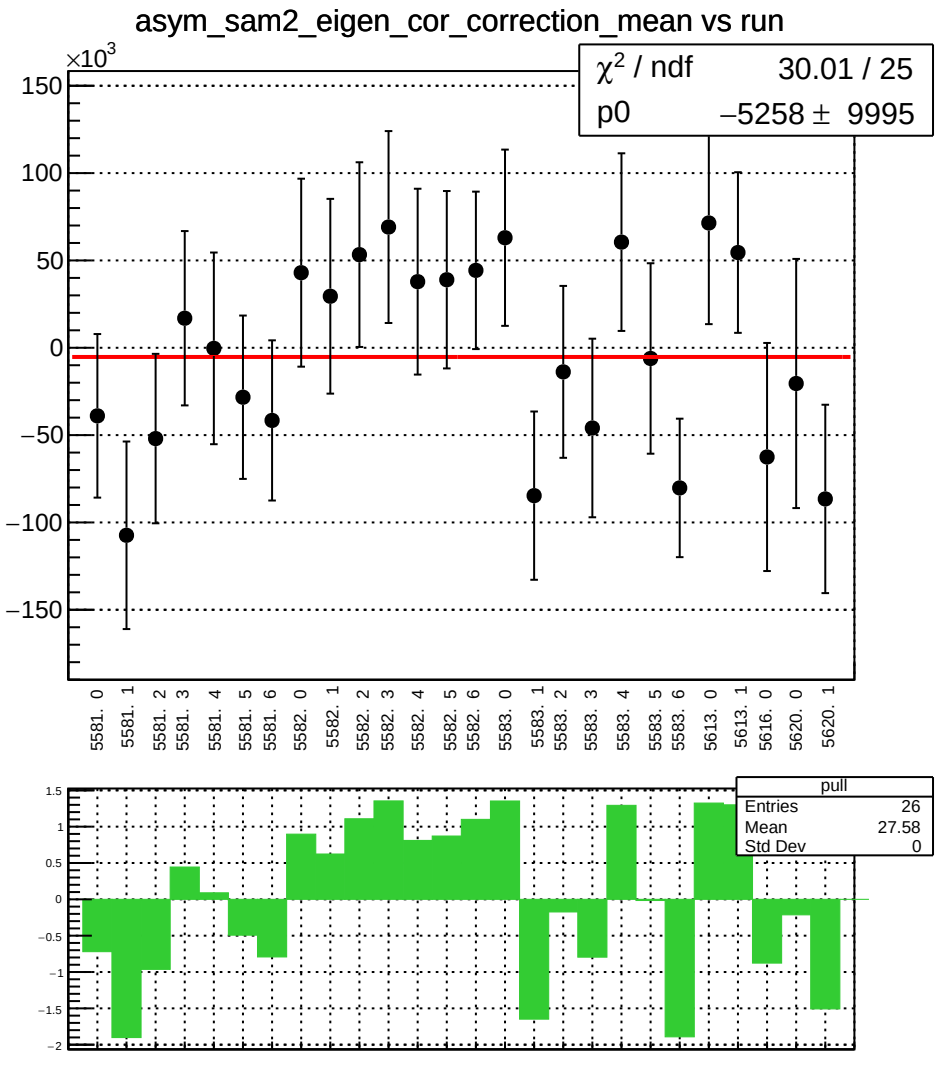

pull1D
Entries 26
Mean 0.02215
Std Dev 1.074
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

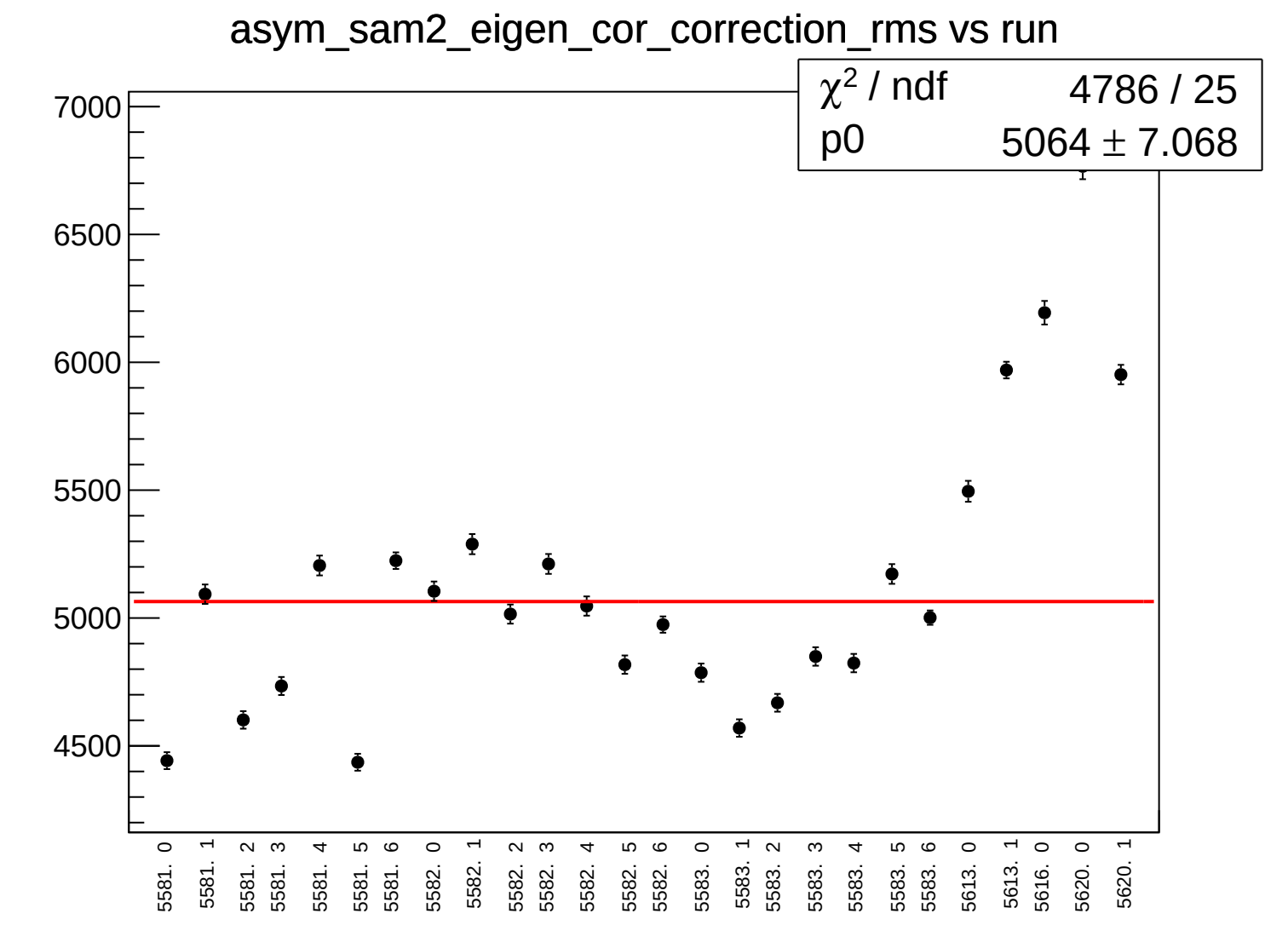

asym_sam2_cor_correction_rms vs run
χ² / ndf 4786 / 25
p0 5064 ± 7.068
7000
6500
6000
5500
5000
4500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

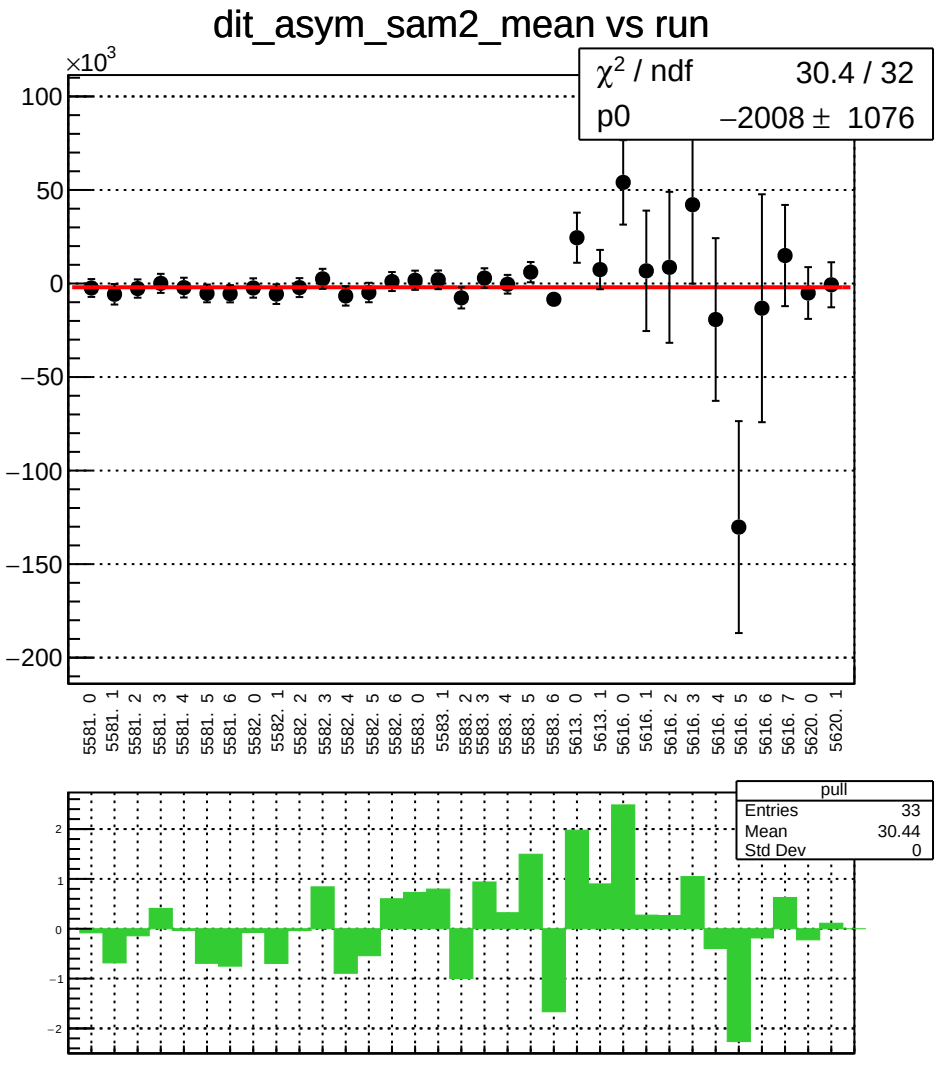

eigen_cor_asym_sam2_mean vs run
×10^3
χ² / ndf 29.54 / 32
p0 −969.2 ± 854.8
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

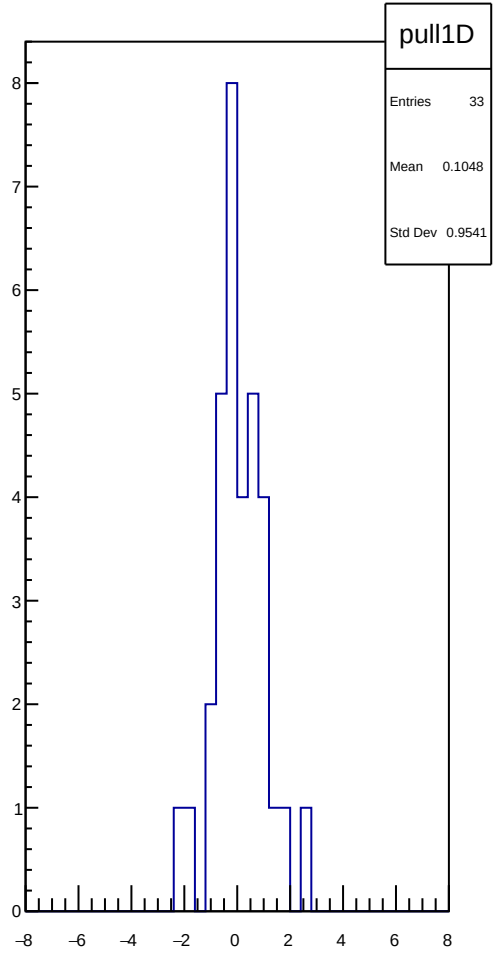

pull1D
Entries 33
Mean 0.1046
Std Dev 0.9403
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

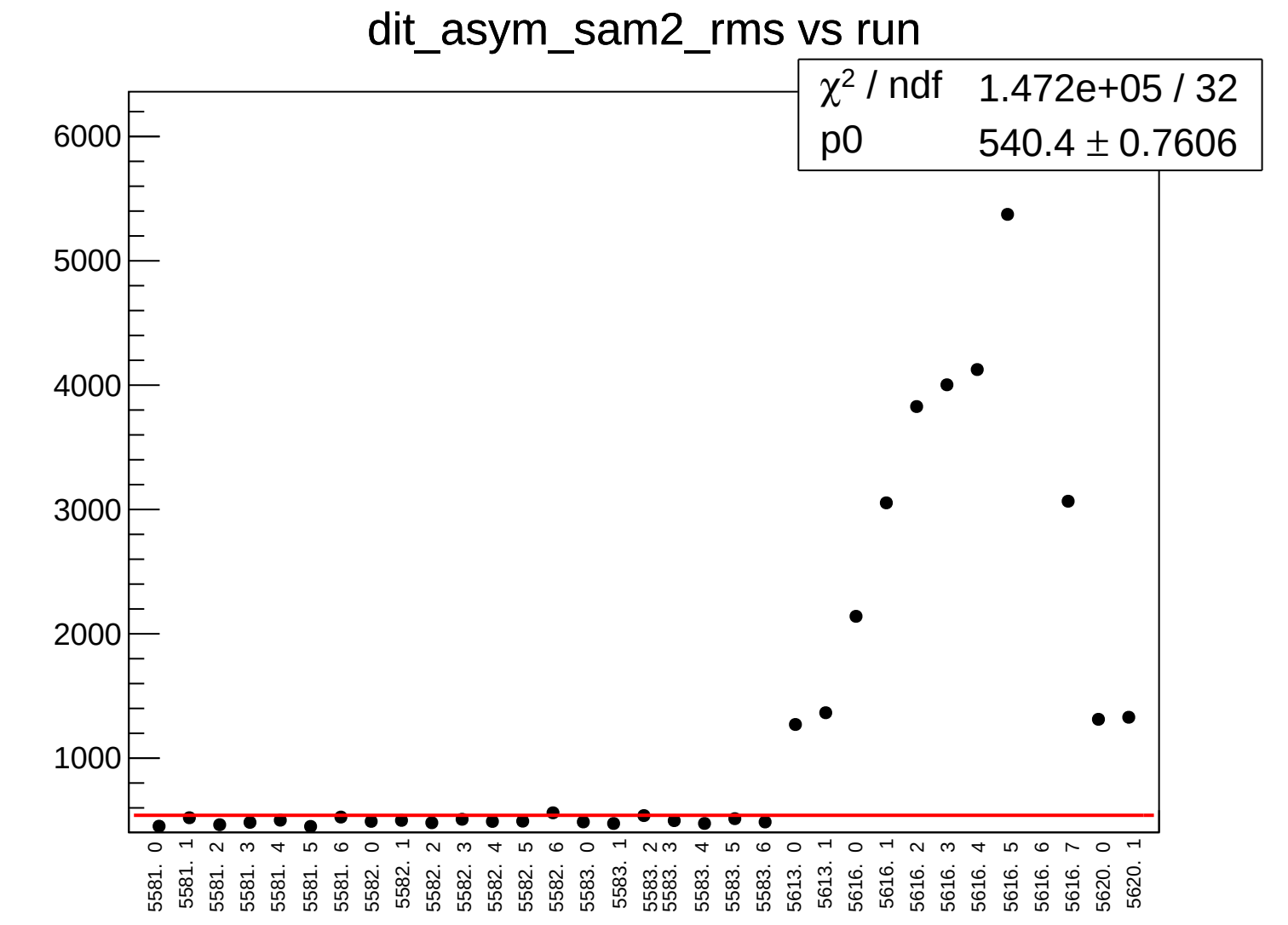

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1.529e+05 / 32
p0 427 ± 0.6044
10000
8000
6000
4000
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

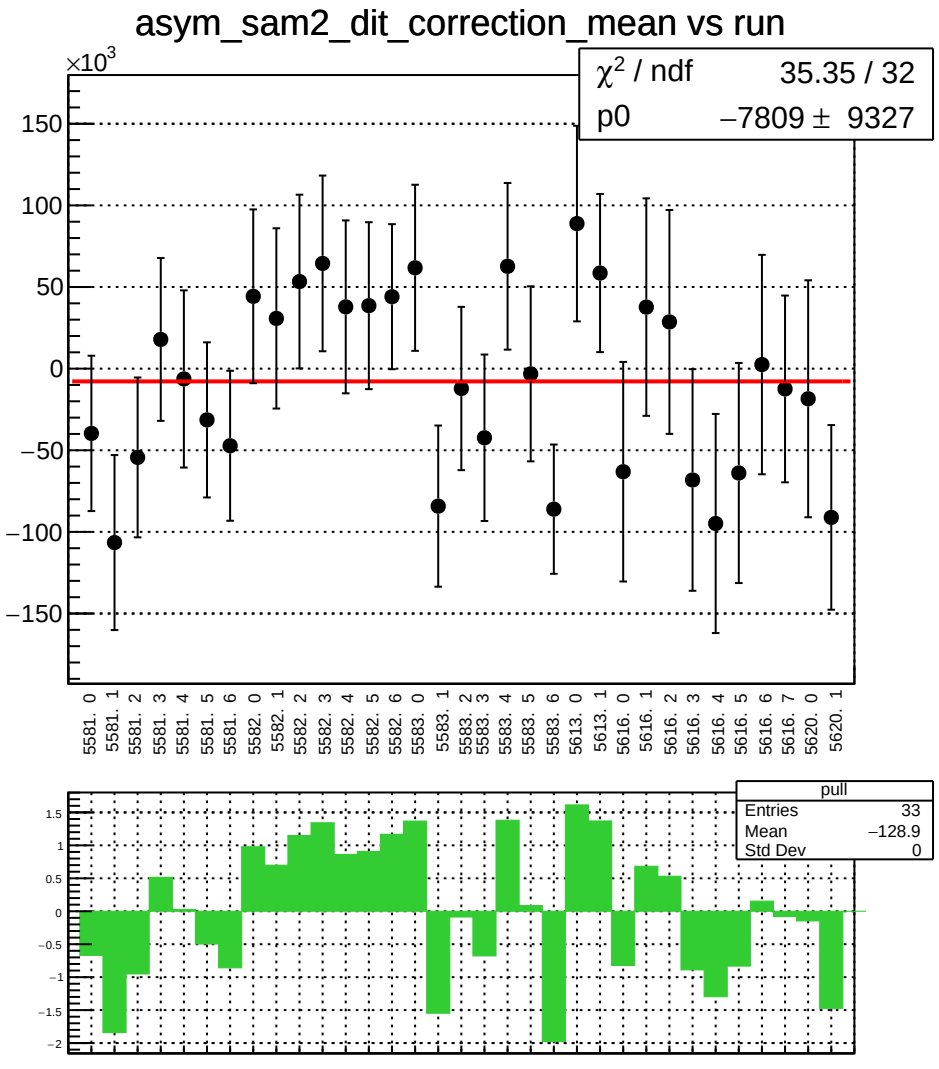

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 30.01 / 25
p0 −5258 ± 9995
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 27.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.02215
Std Dev 1.074
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

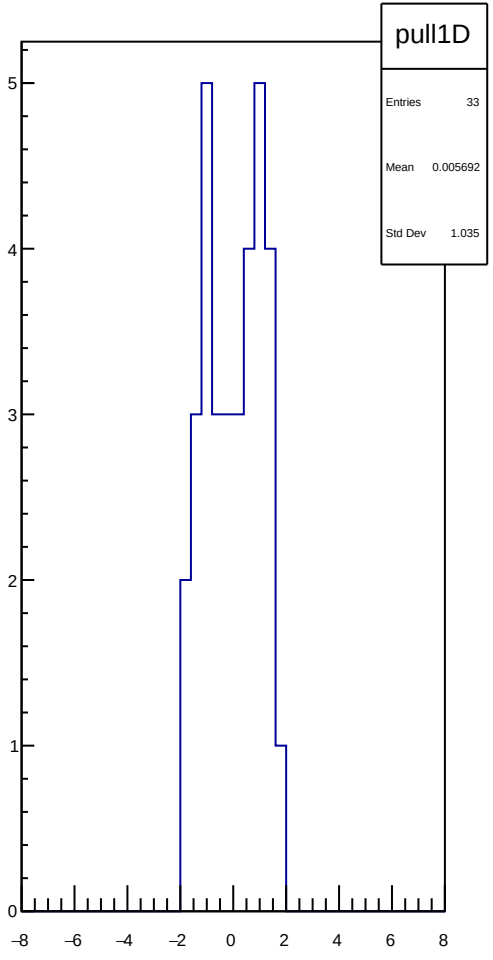

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 4786 / 25
p0 5064 ± 7.068
7000
6500
6000
5500
5000
4500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

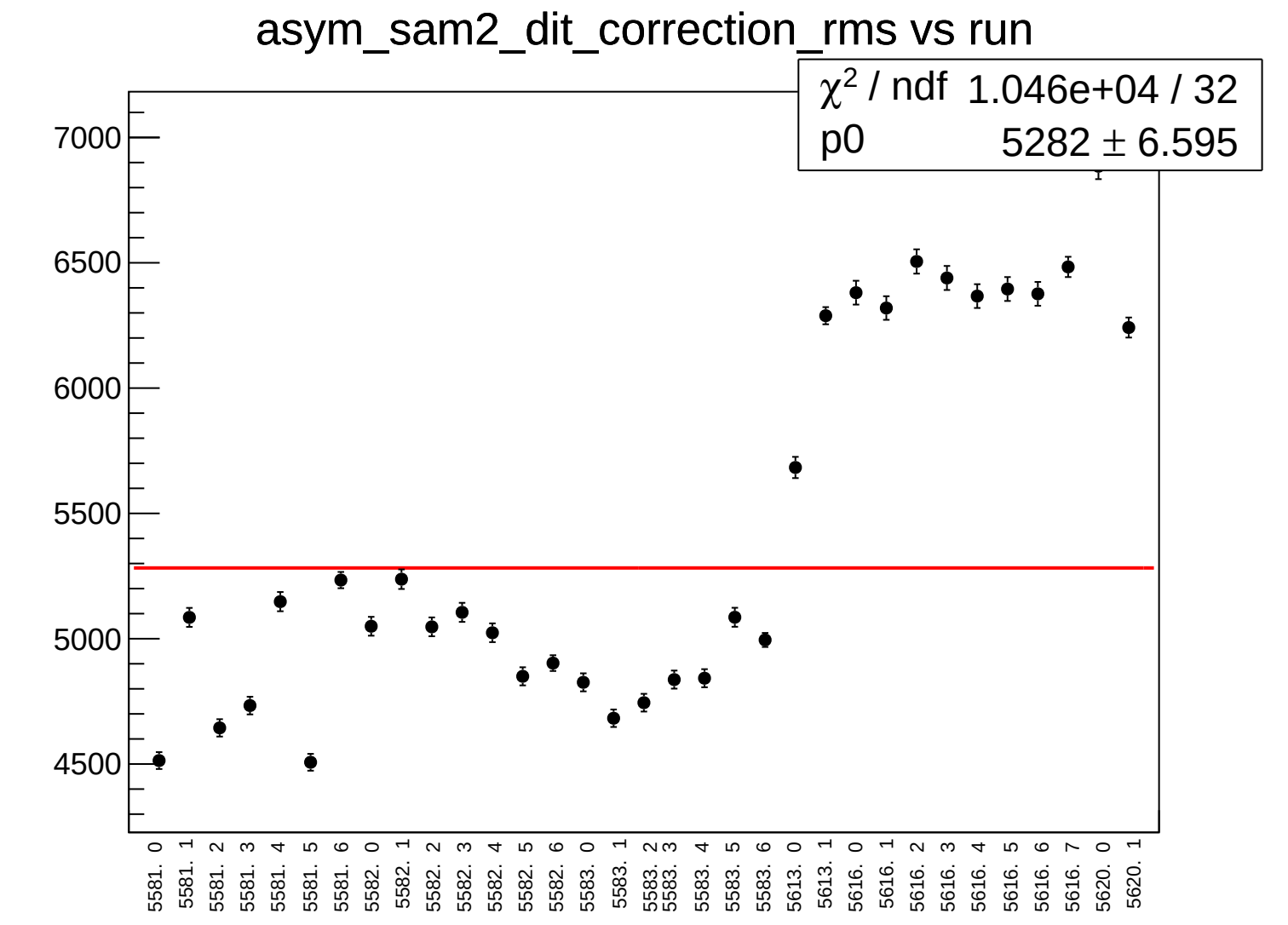

dit_asym_sam2_mean vs run
×10^3
χ^2 / ndf 30.4 / 32
p0 −2008 ± 1076
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 30.44
Std Dev 0
2
1
0
−1
−2

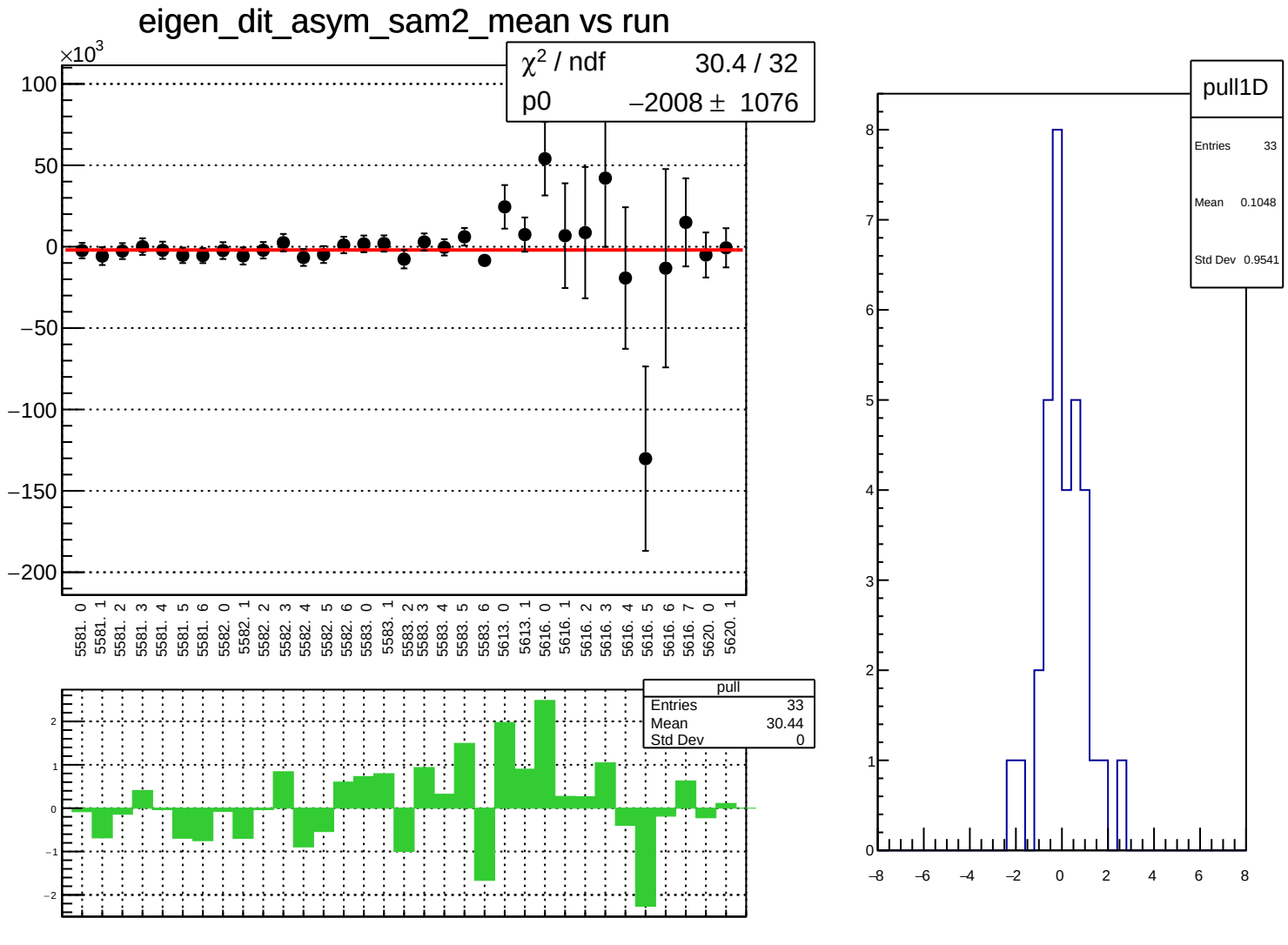

pull1D
Entries 33
Mean 0.1048
Std Dev 0.9541
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

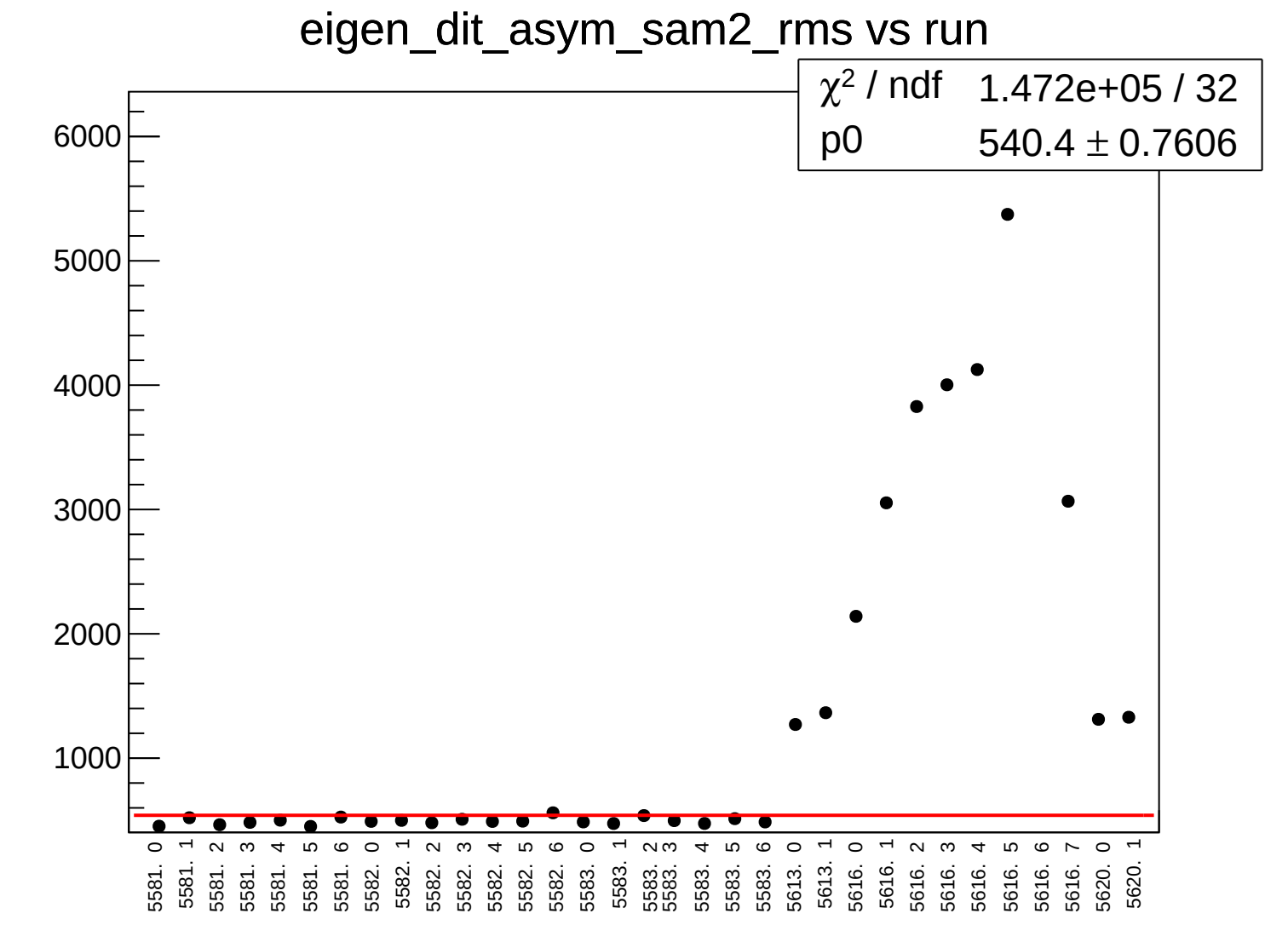

dit_asym_sam2_rms vs run
χ² / ndf 1.472e+05 / 32
p0 540.4 ± 0.7606
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

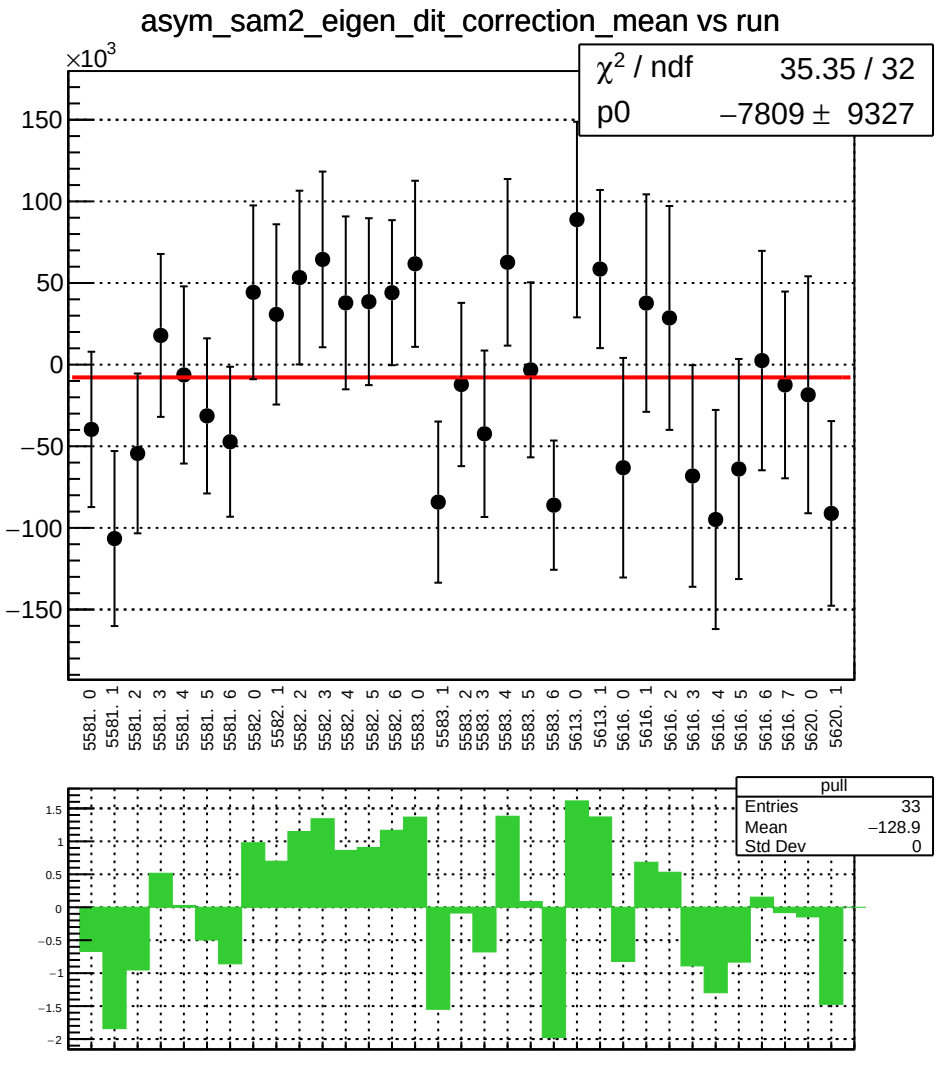

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 35.35 / 32
p0 −7809 ± 9327
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −128.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

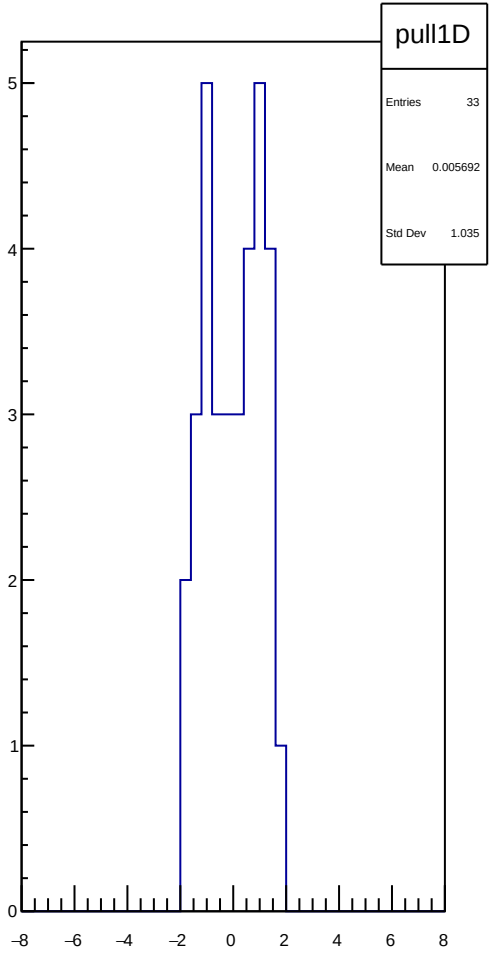

pull1D
Entries 33
Mean 0.005692
Std Dev 1.035
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

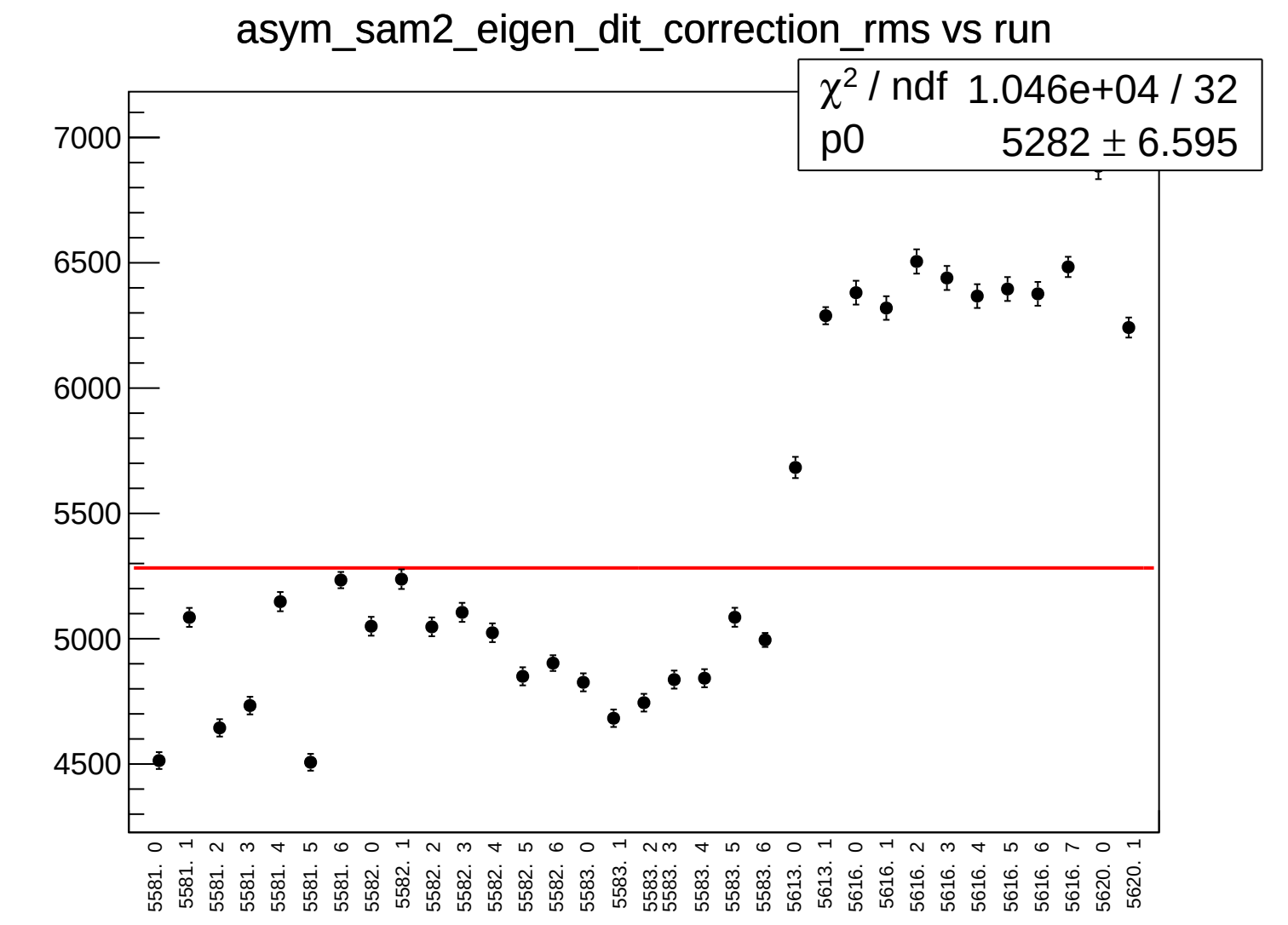

asym_sam2_dit_correction_rms vs run
χ² / ndf 1.046e+04 / 32
p0 5282 ± 6.595
7000
6500
6000
5500
5000
4500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

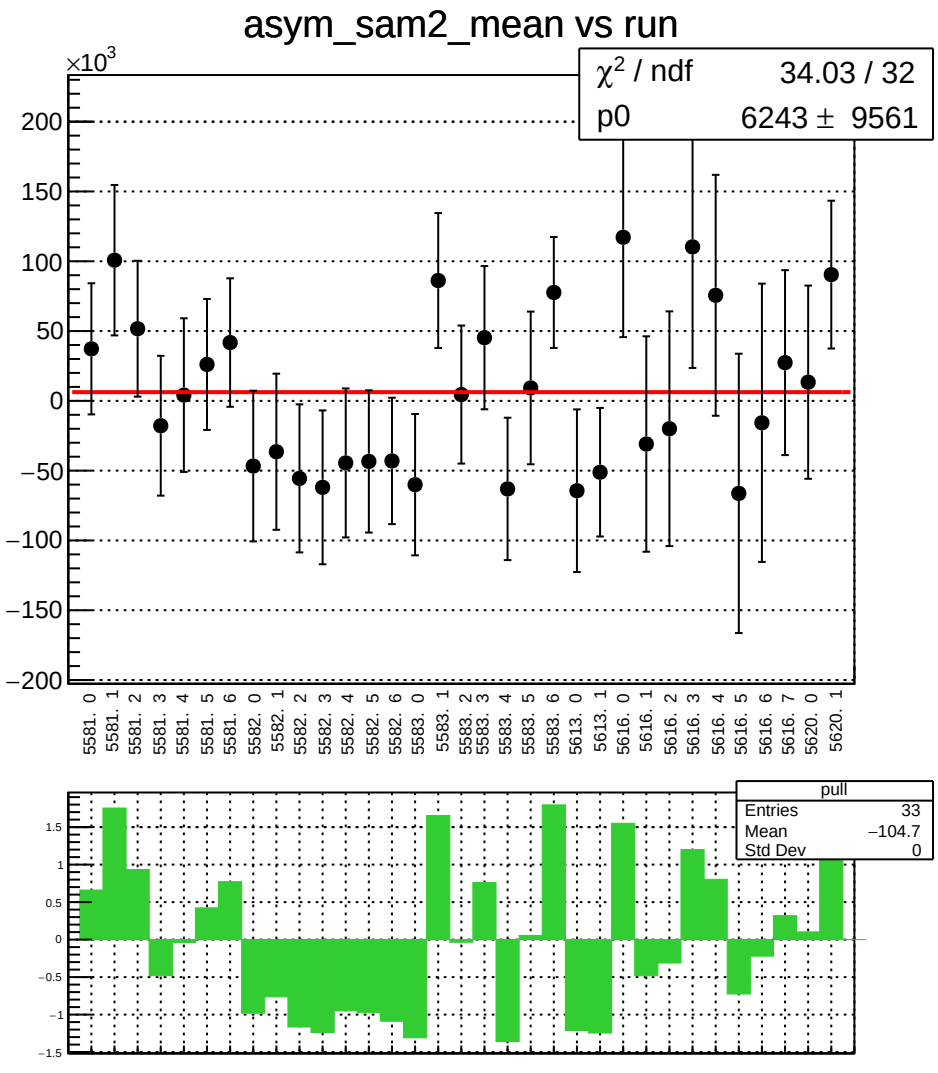

eigen_dit_asym_sam2_mean vs run
×10^3
χ^2 / ndf 30.4 / 32
p0 −2008 ± 1076
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 30.44
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.1048
Std Dev 0.9541
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

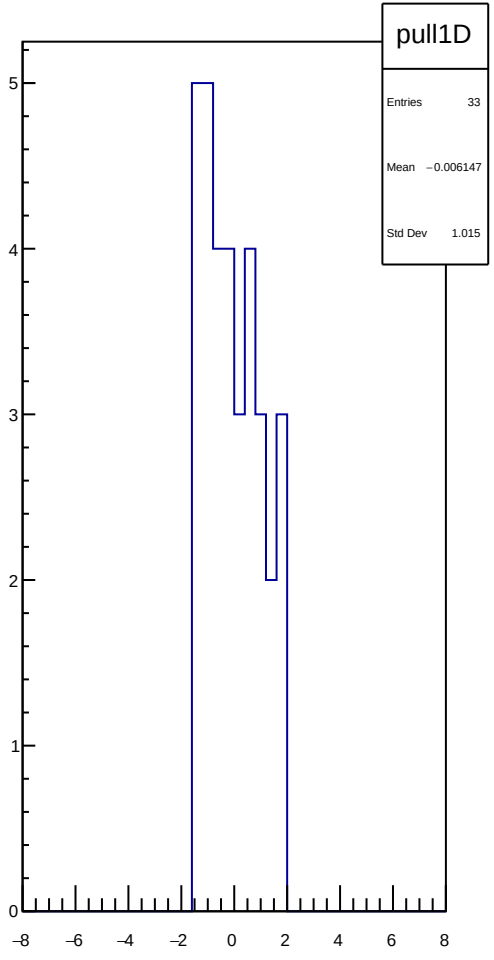

eigen_dit_asym_sam2_rms vs run
χ² / ndf 1.472e+05 / 32
p0 540.4 ± 0.7606
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

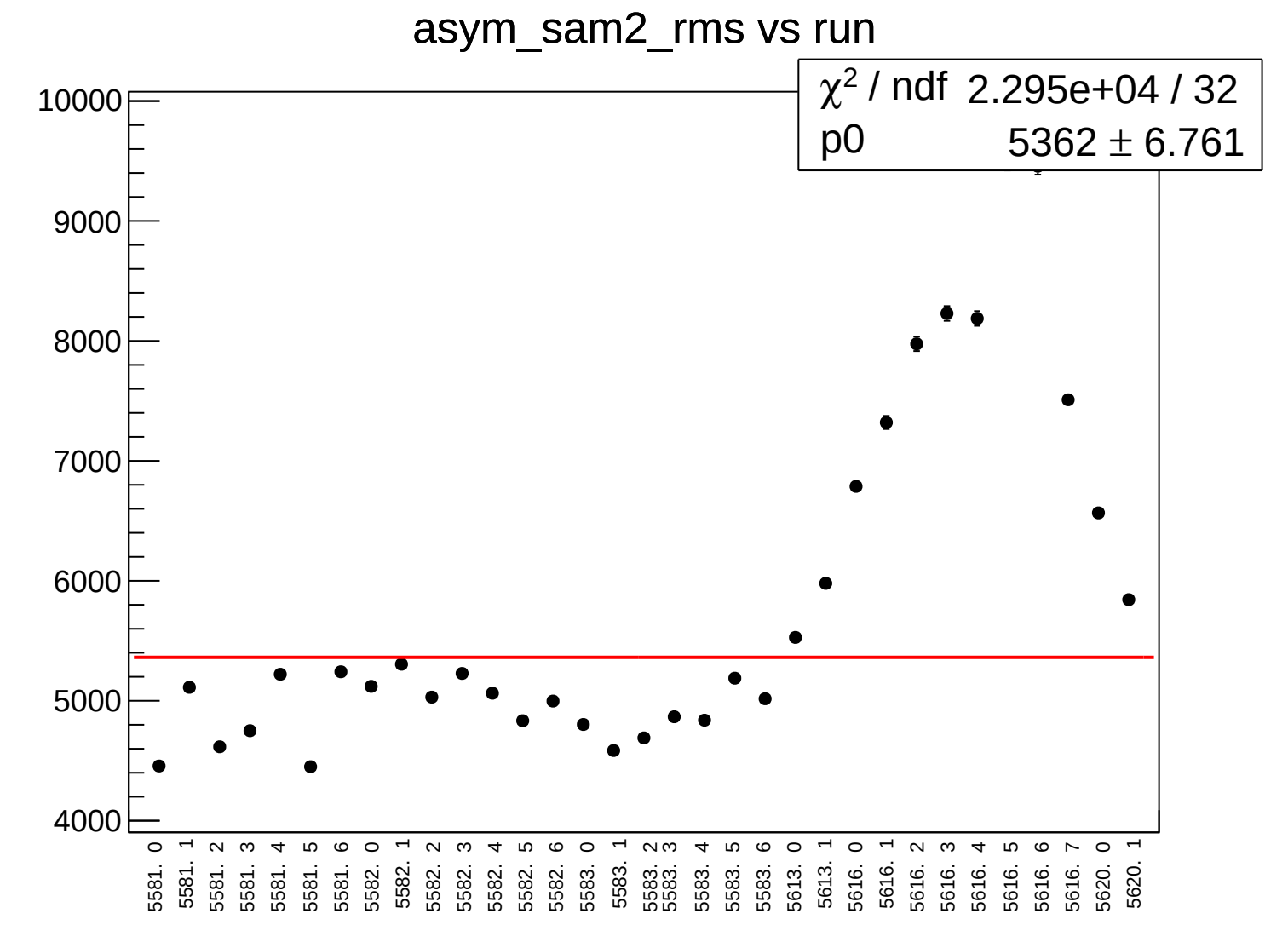

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 35.35 / 32
p0 −7809 ± 9327
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −128.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

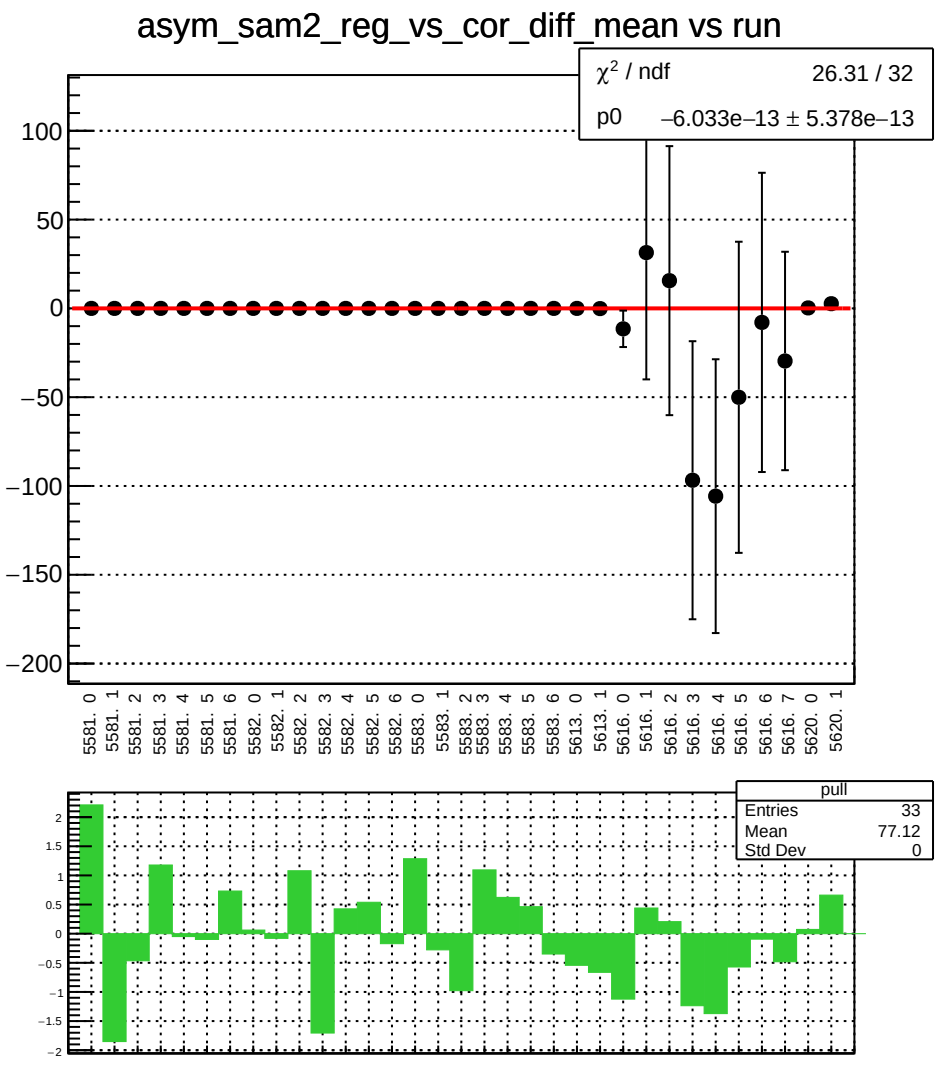

pull1D
Entries 33
Mean 0.005692
Std Dev 1.035
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

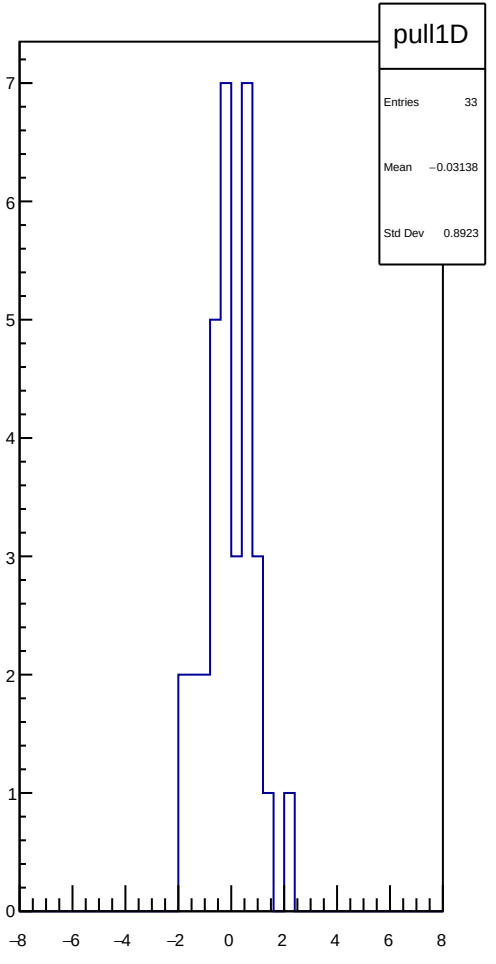

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 1.046e+04 / 32
p0 5282 ± 6.595
7000
6500
6000
5500
5000
4500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

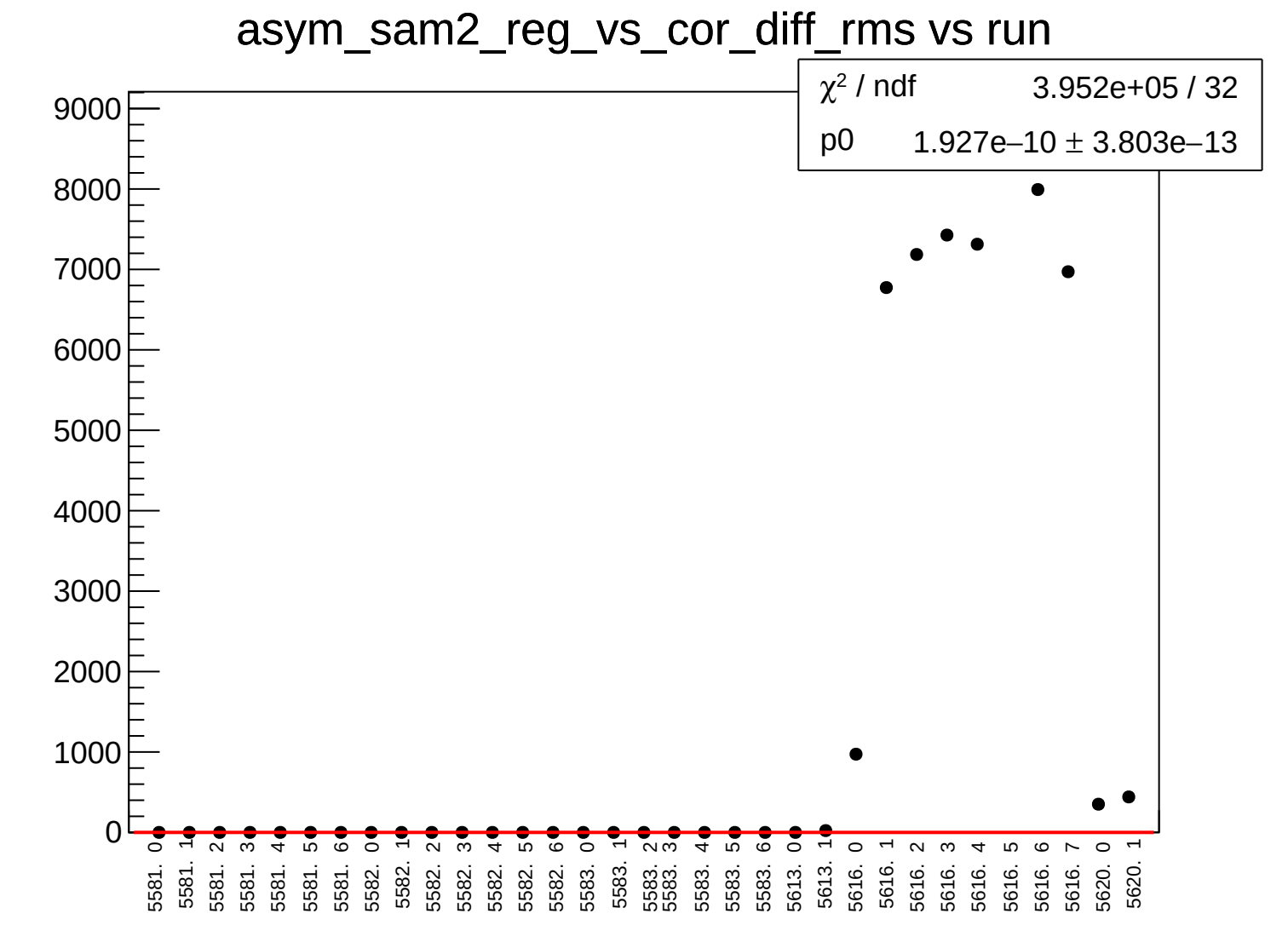

asym_sam2_mean vs run
×10^3
χ^2 / ndf 34.03 / 32
p0 6243 ± 9561
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −104.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

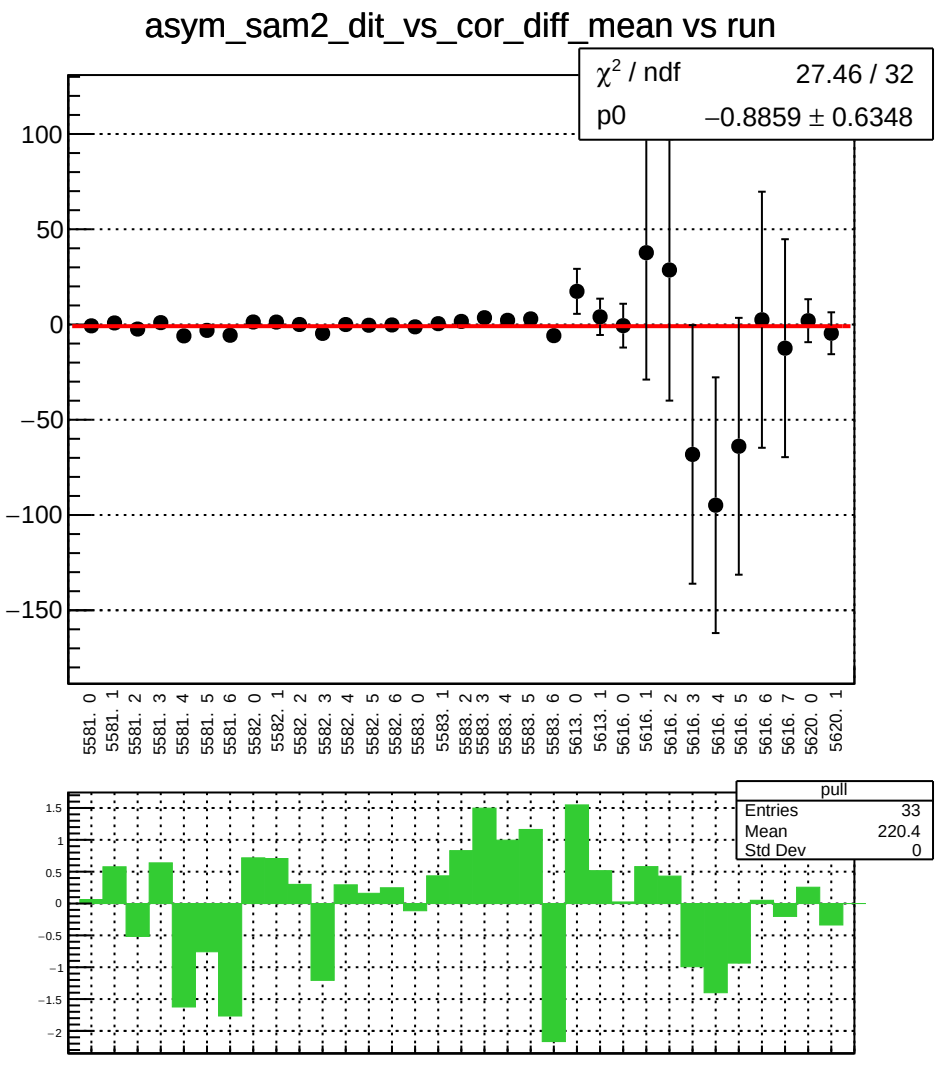

pull1D
Entries 33
Mean −0.006147
Std Dev 1.015
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

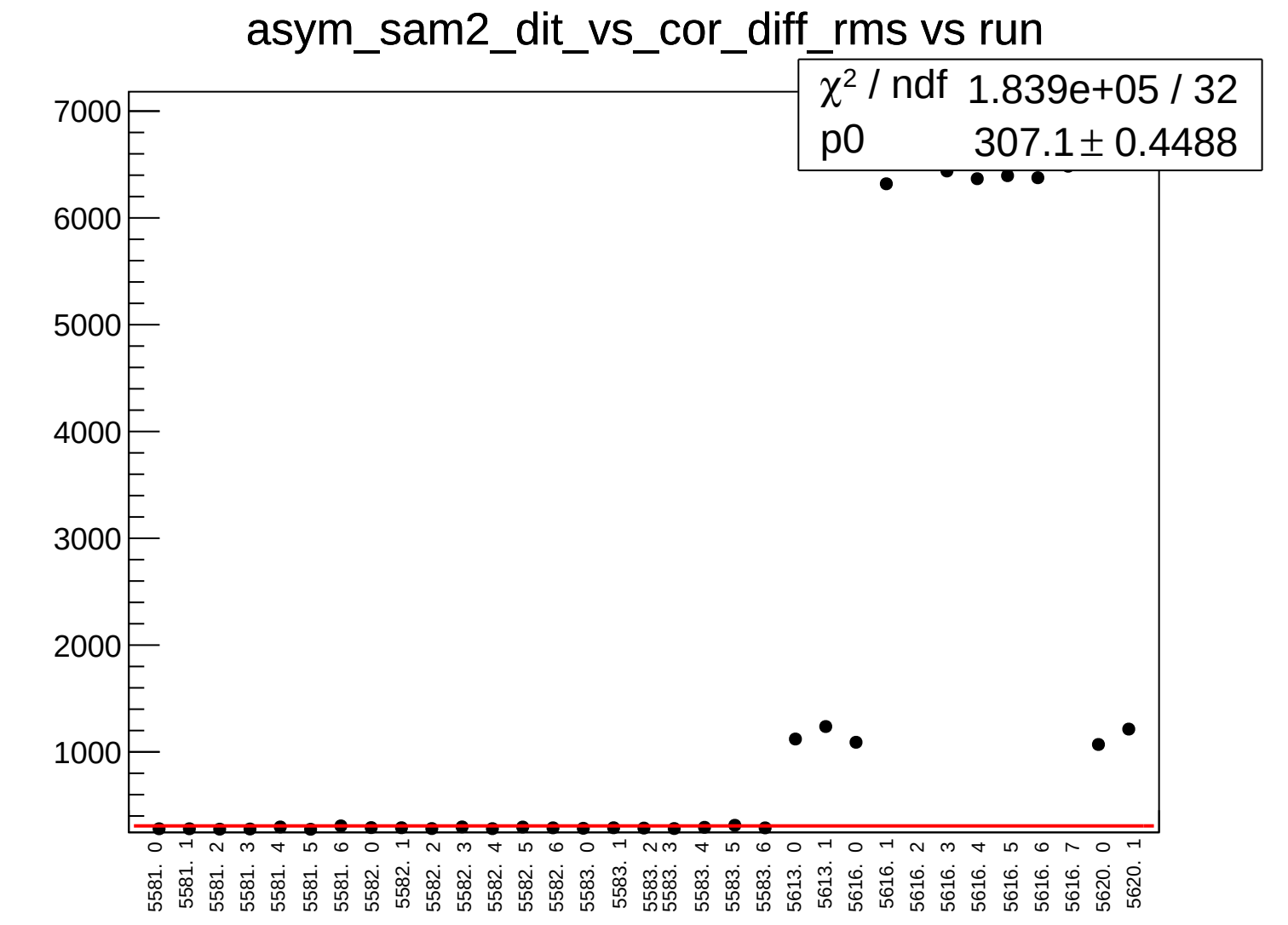

asym_sam2_rms vs run
χ² / ndf 2.295e+04 / 32
p0 5362 ± 6.761
10000
9000
8000
7000
6000
5000
4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

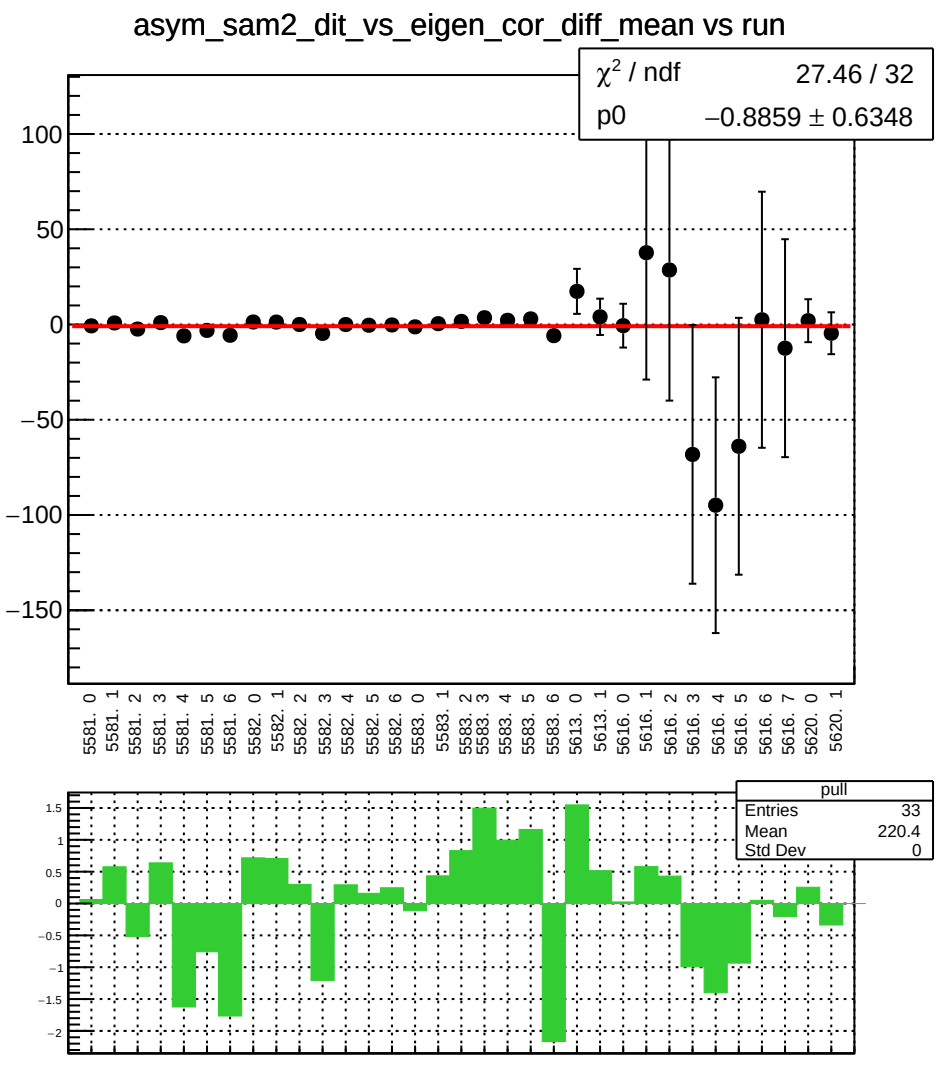

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 26.31 / 32
p0 −6.033e−13 ± 5.378e−13
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 77.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

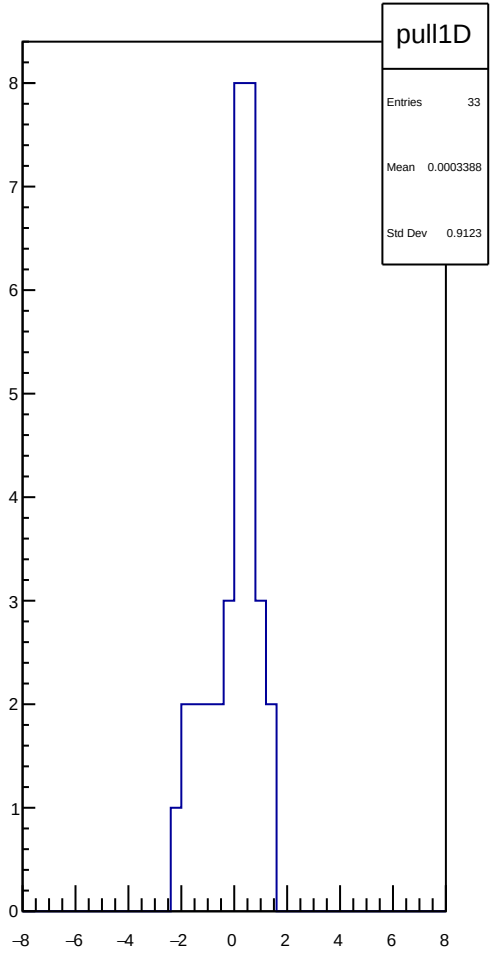

pull1D
Entries 33
Mean −0.03138
Std Dev 0.8923
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

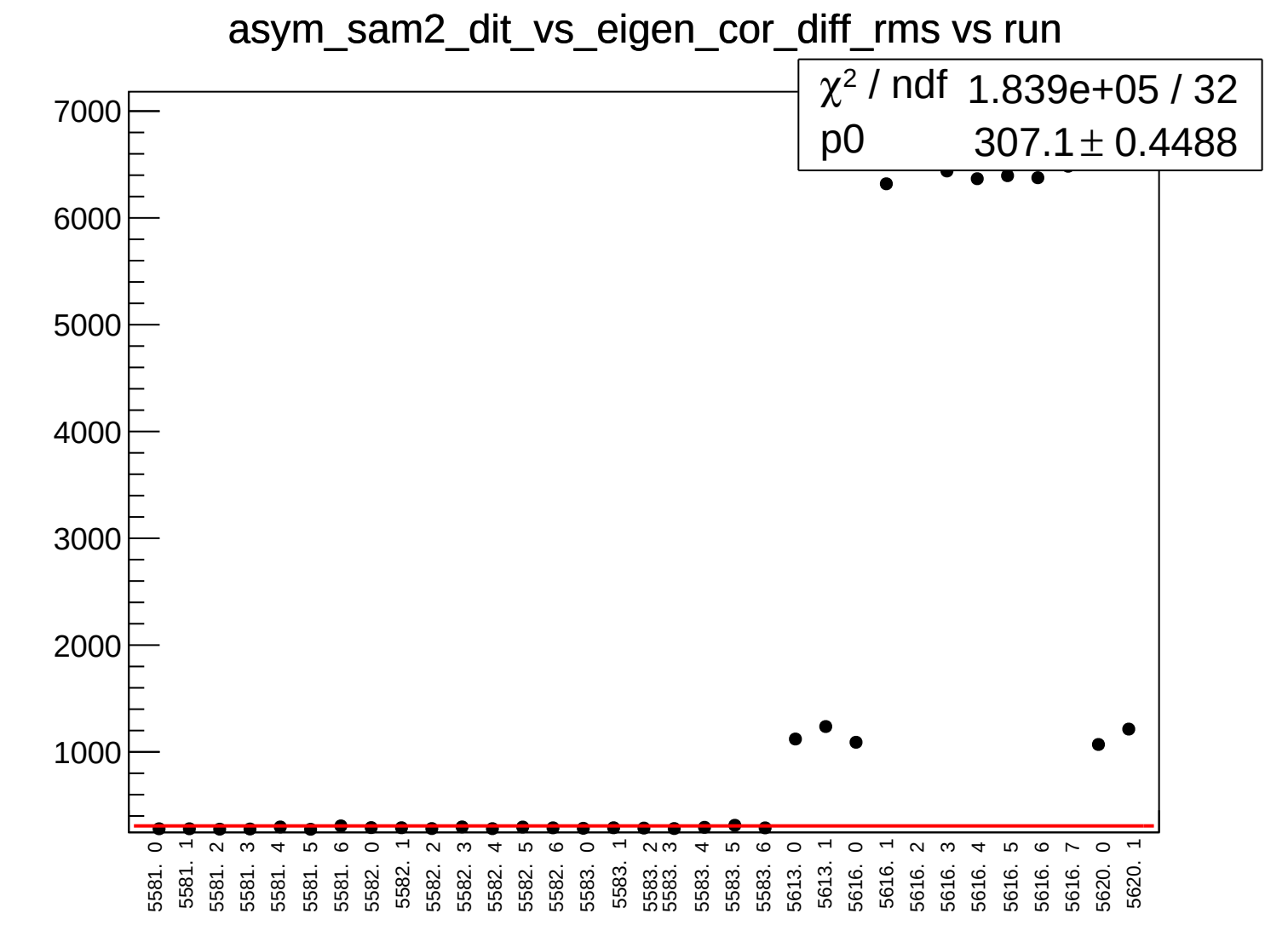

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 3.952e+05 / 32
p0 1.927e−10 ± 3.803e−13
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

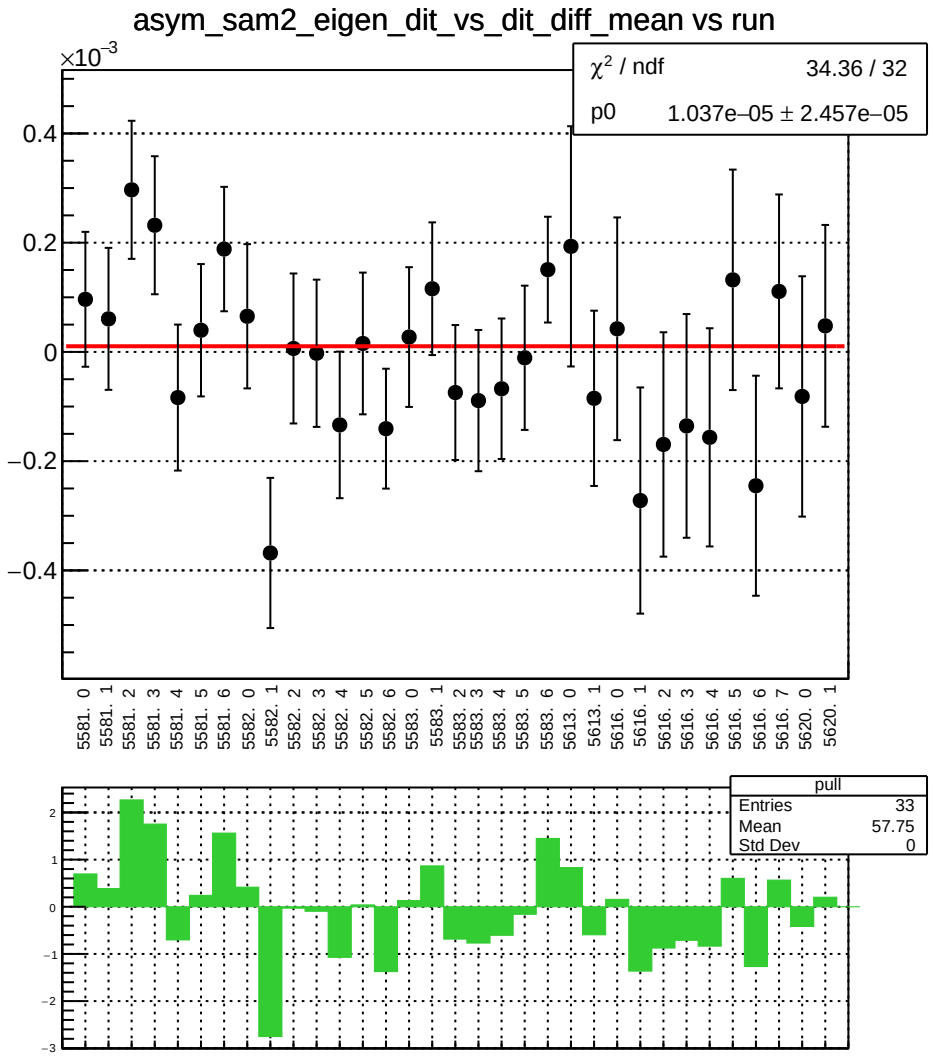

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 27.46 / 32
p0 −0.8859 ± 0.6348
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 220.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.0003388
Std Dev 0.9123
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

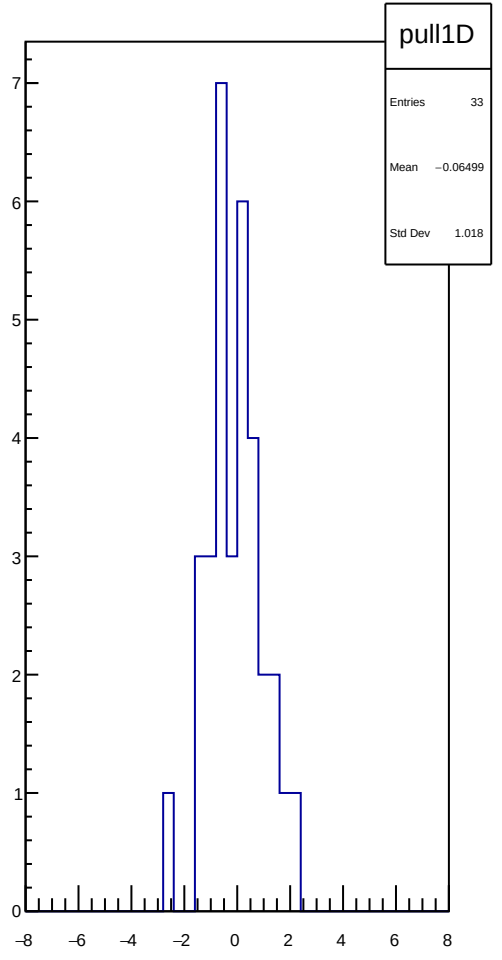

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.839e+05 / 32
p0 307.1 ± 0.4488
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

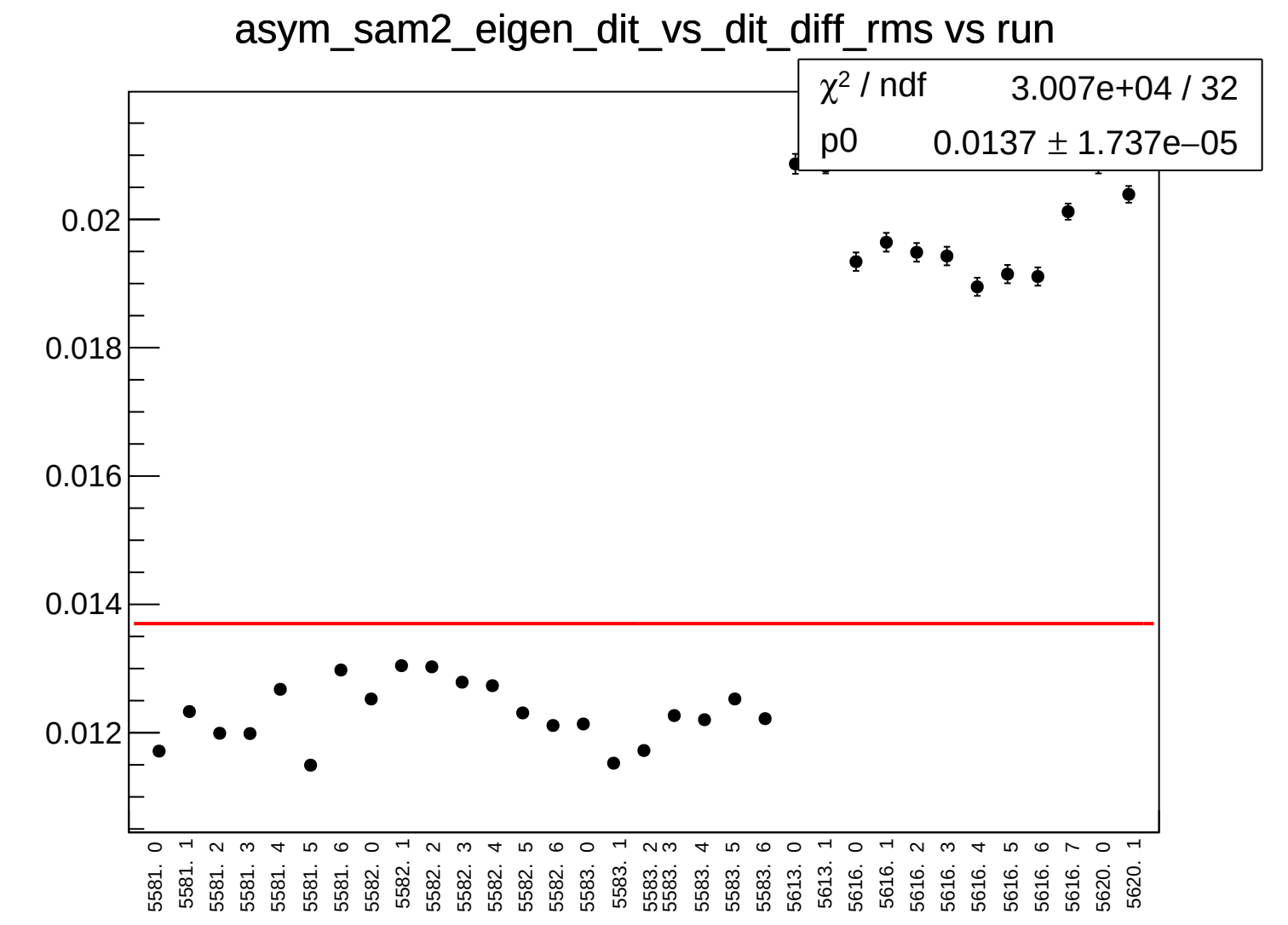

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.46 / 32
p0 −0.8859 ± 0.6348
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 220.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

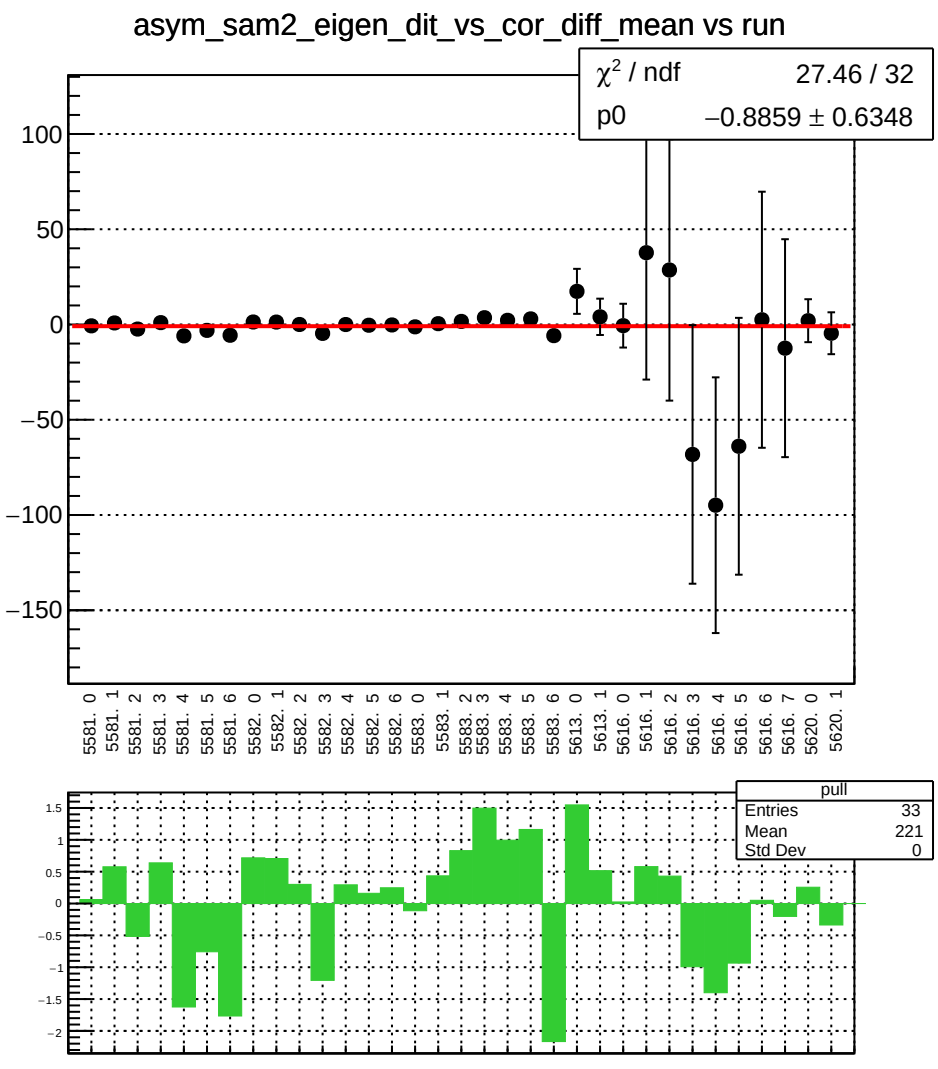

pull1D
Entries 33
Mean 0.0003388
Std Dev 0.9123
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

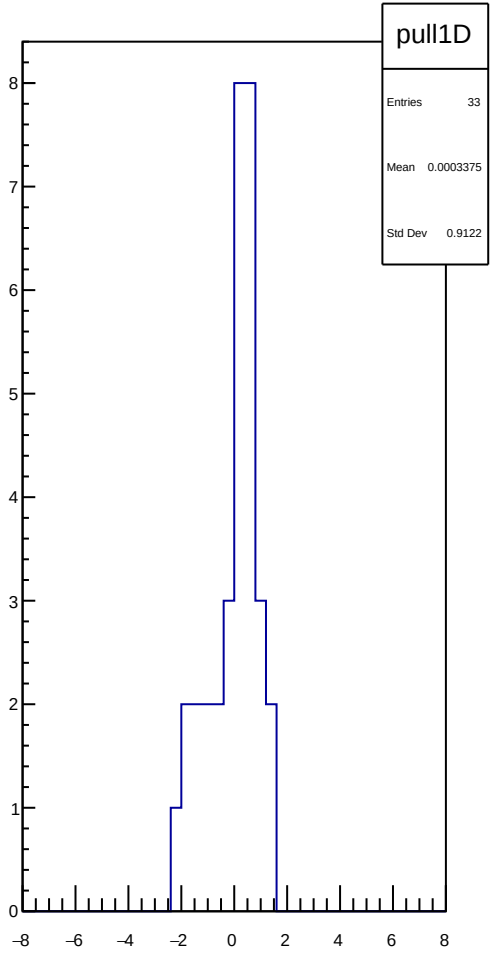

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.839e+05 / 32
p0 307.1 ± 0.4488
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

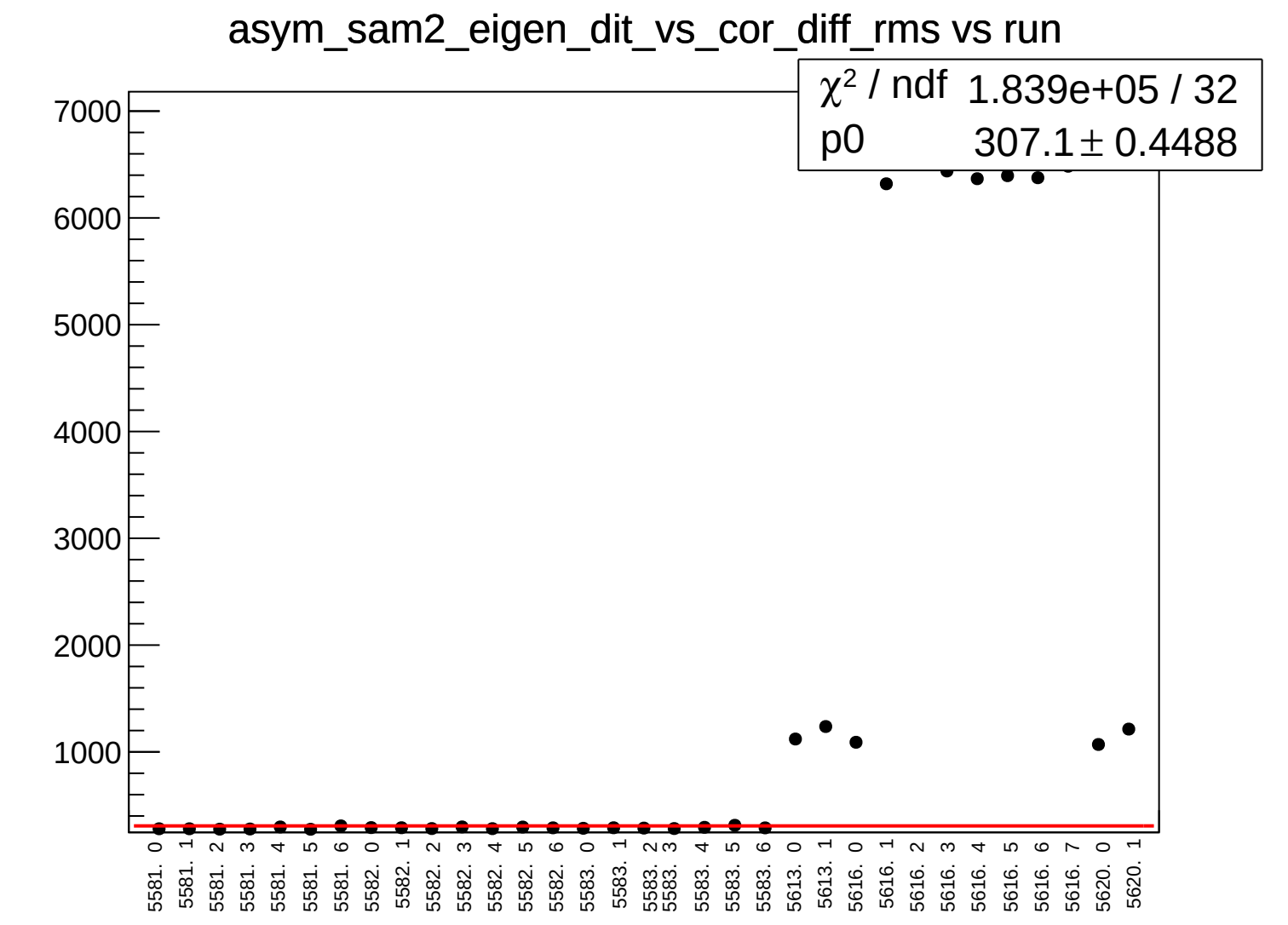

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 34.36 / 32
p0 1.037e−05 ± 2.457e−05
0.4
0.2
0
−0.2
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 57.75
Std Dev 0
2
1
0
−1
−2
−3

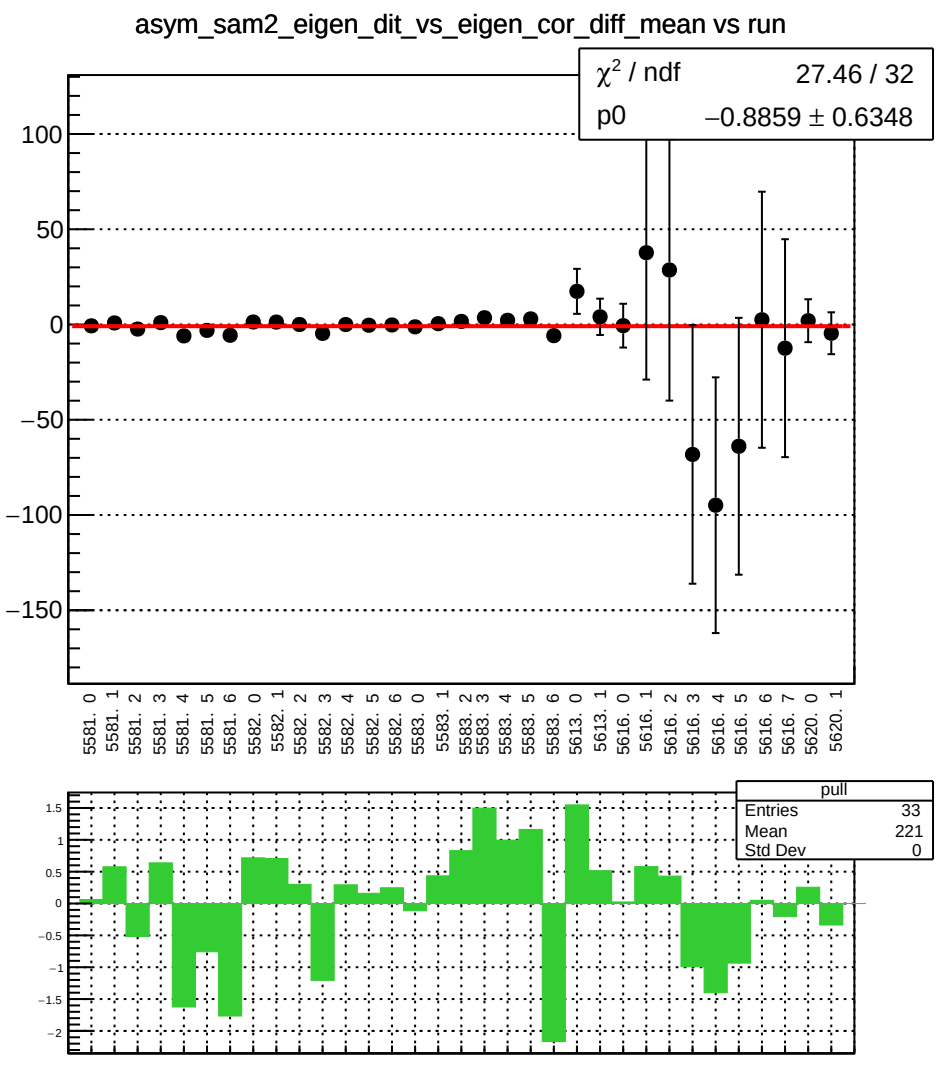

pull1D
Entries 33
Mean −0.06499
Std Dev 1.018
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

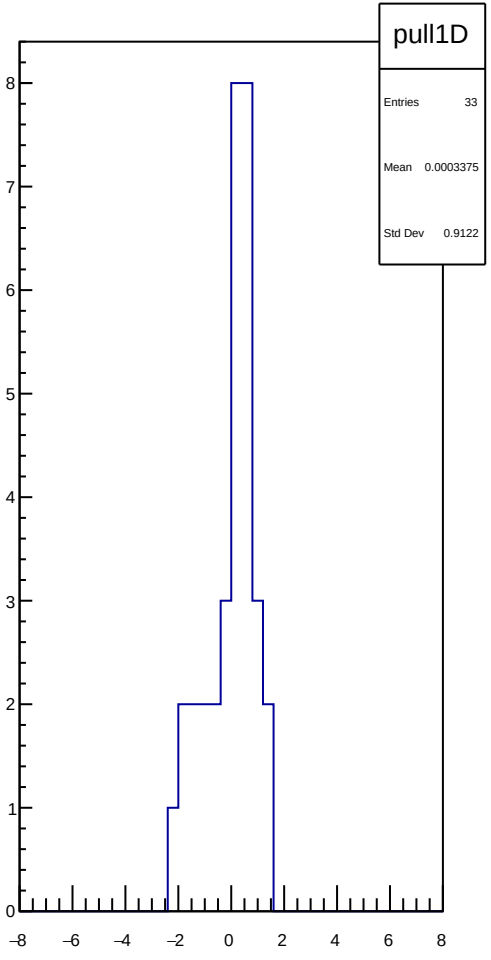

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.007e+04 / 32
p0 0.0137 ± 1.737e−05
0.02
0.018
0.016
0.014
0.012
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

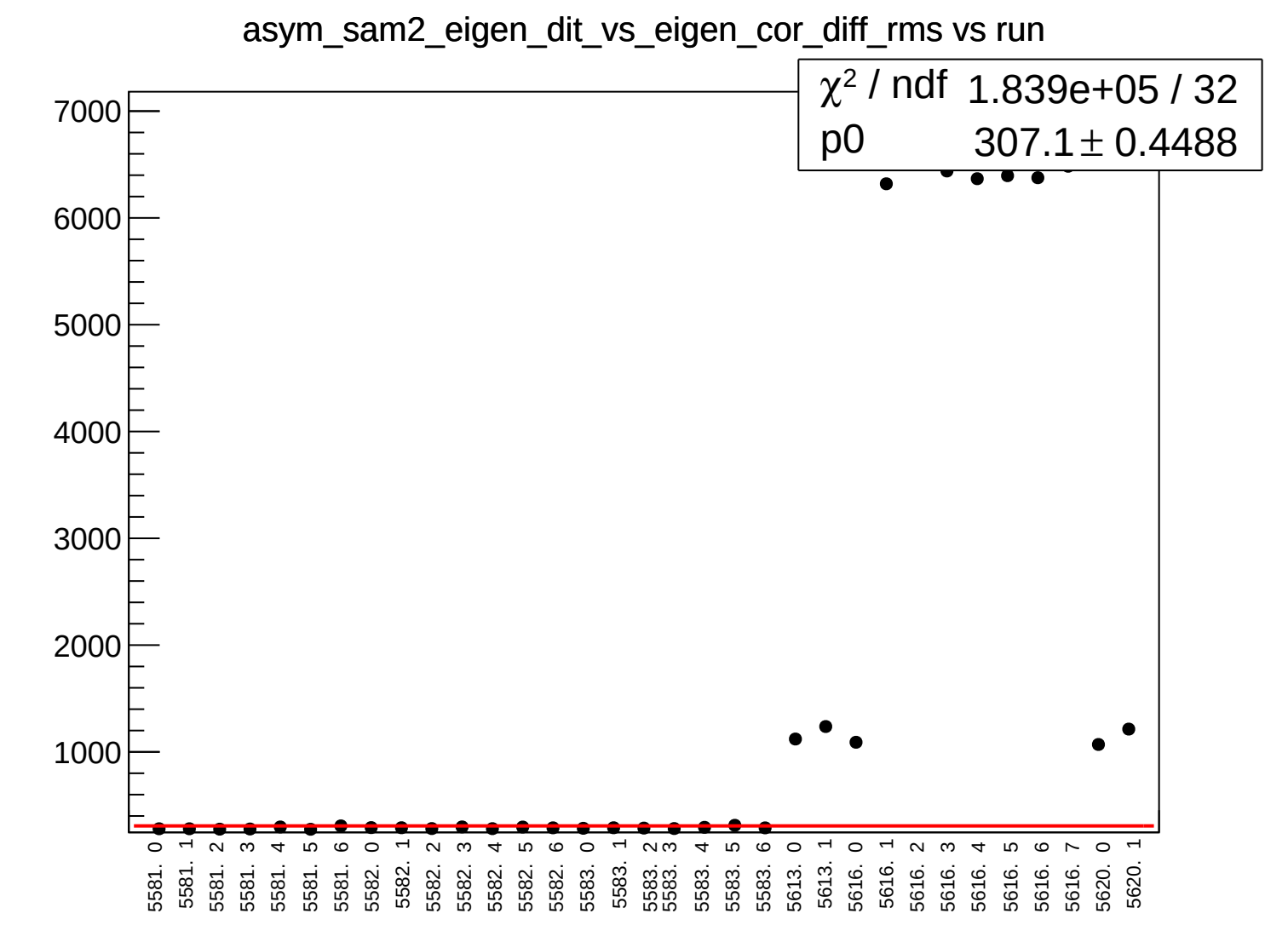

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.46 / 32
p0 −0.8859 ± 0.6348
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 221
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

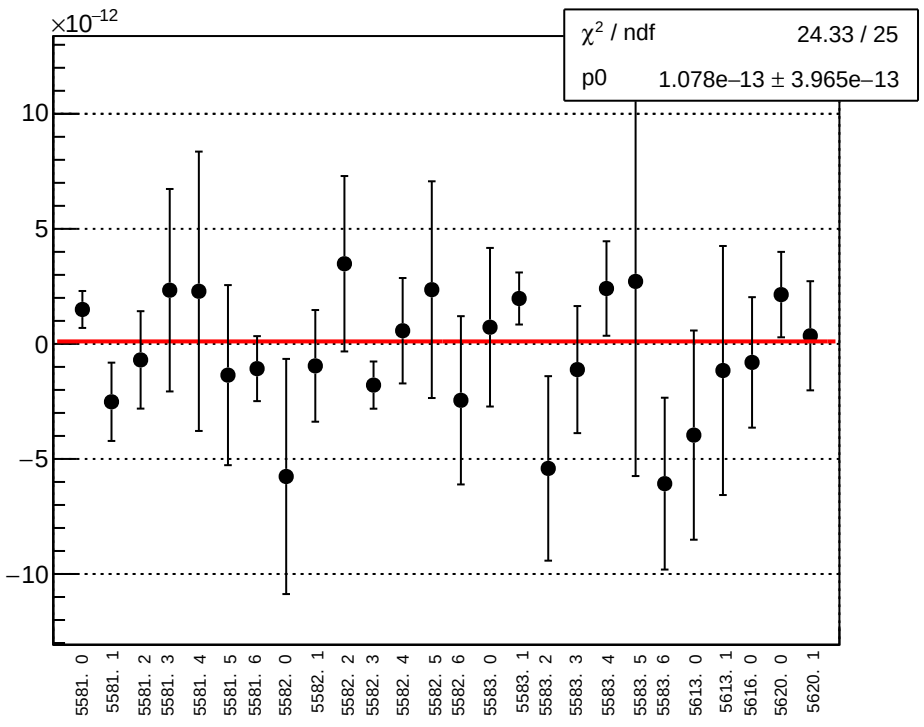

pull1D
Entries 33
Mean 0.0003375
Std Dev 0.9122
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

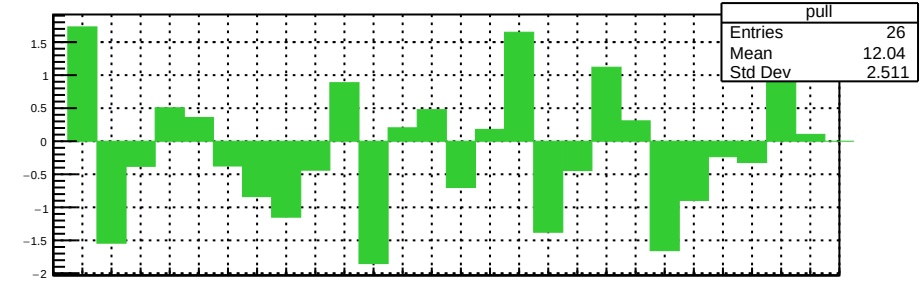

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.839e+05 / 32
p0 307.1 ± 0.4488
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

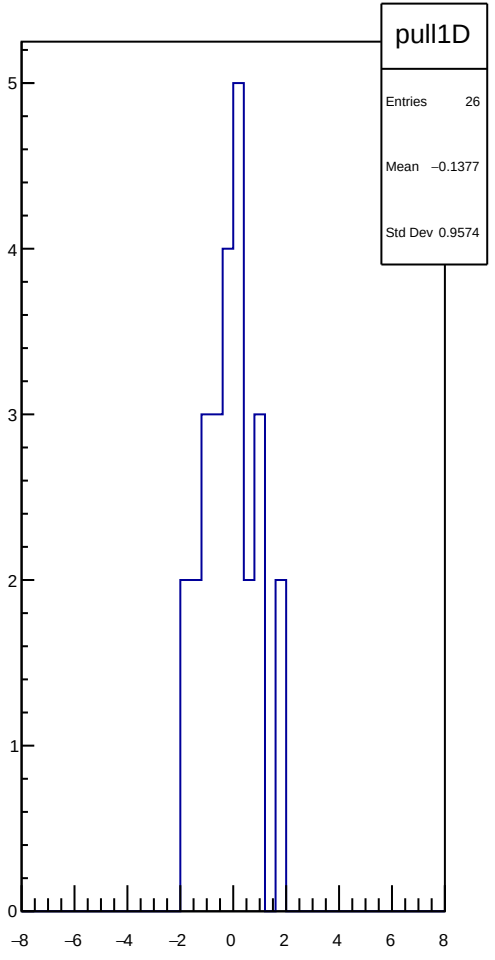

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.46 / 32
p0 −0.8859 ± 0.6348
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 221
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

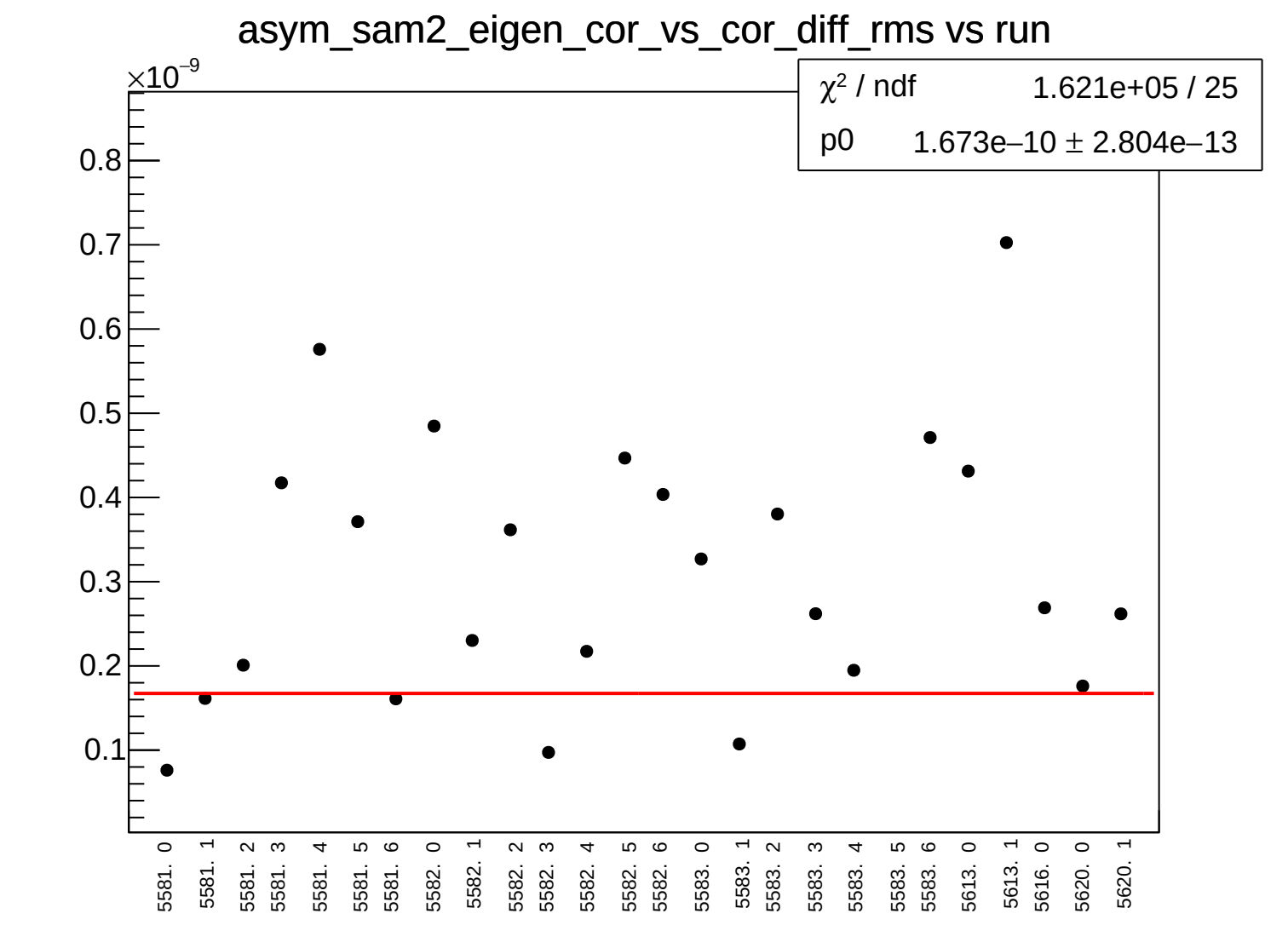

pull1D
Entries 33
Mean 0.0003375
Std Dev 0.9122
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

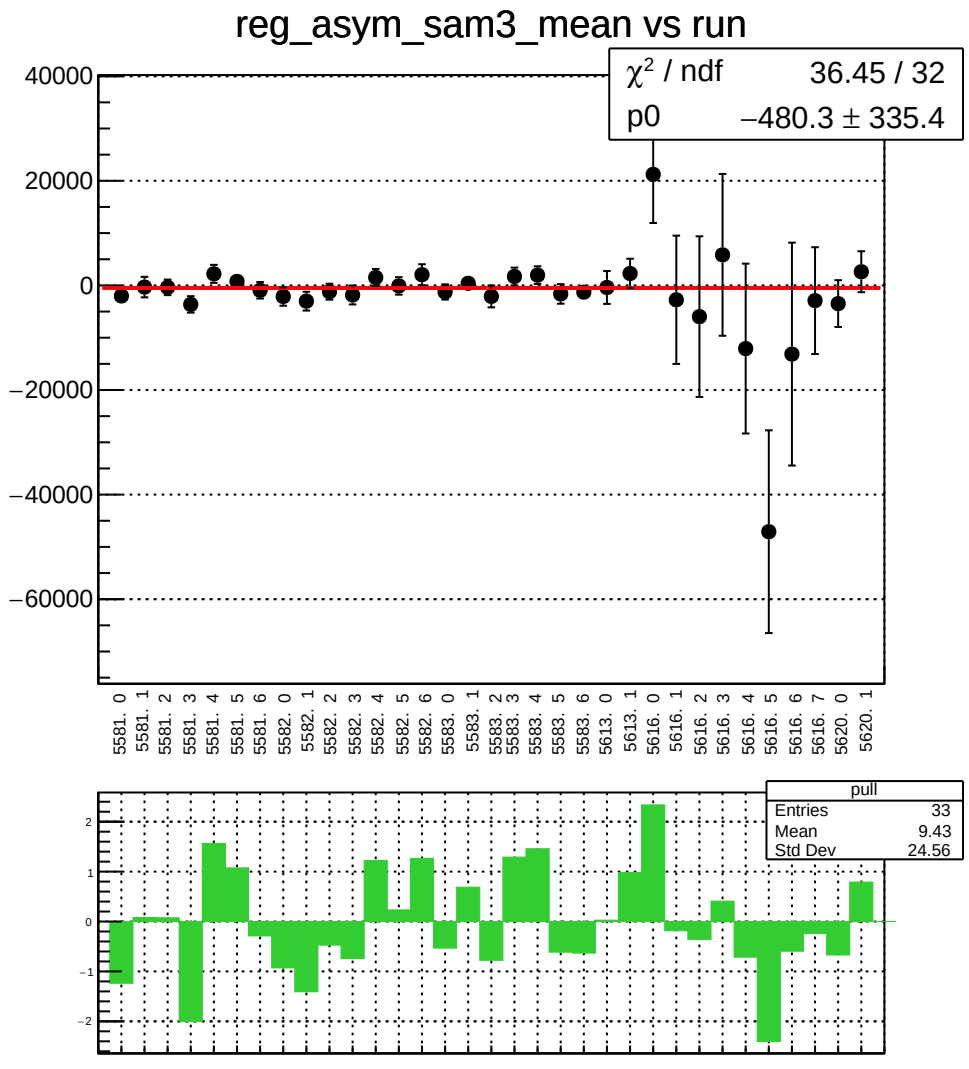

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.839e+05 / 32
p0 307.1 ± 0.4488
7000
6000
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

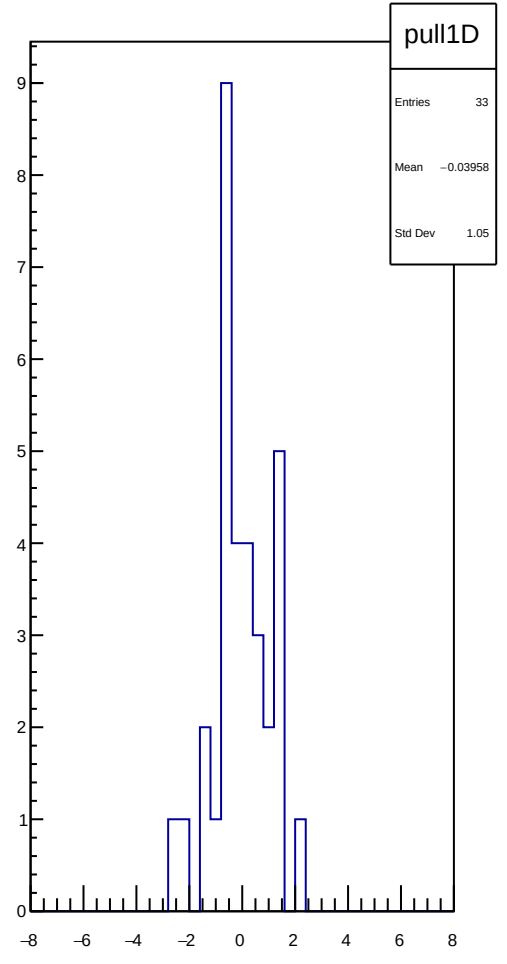

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.33 / 25
p0 1.078e−13 ± 3.965e−13
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

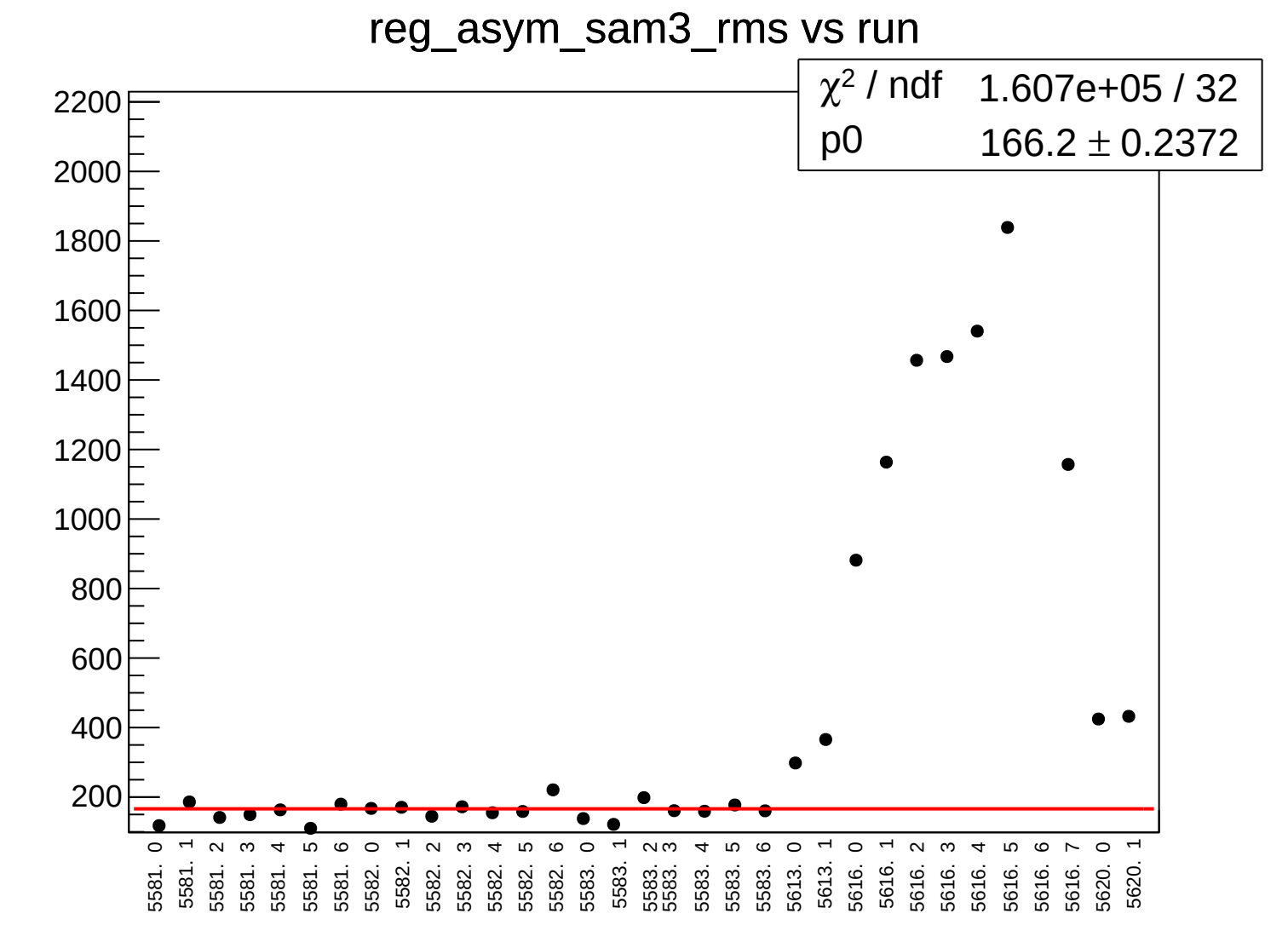

pull
Entries 26
Mean 12.04
Std Dev 2.511
1.5
1
0.5
0
−0.5
−1
−1.5
−2

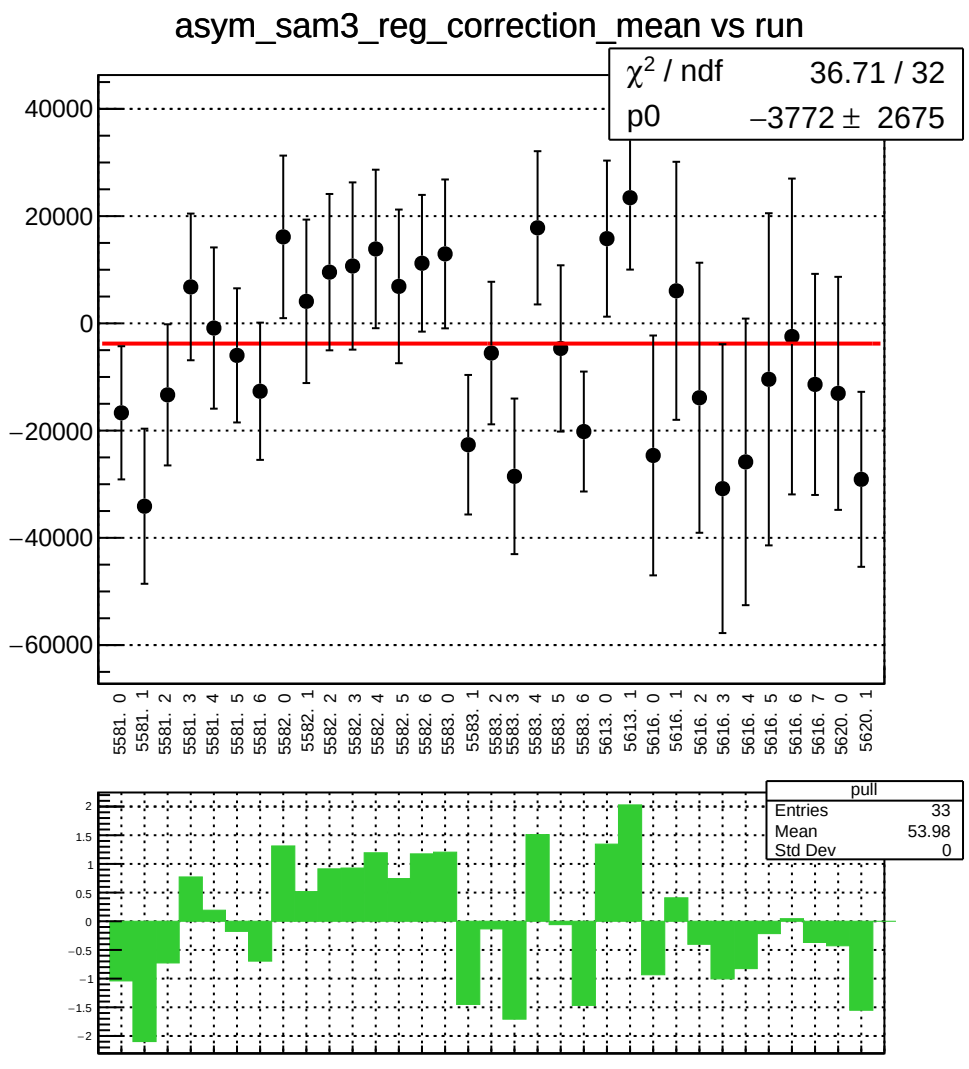

pull1D
Entries 26
Mean −0.1377
Std Dev 0.9574
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

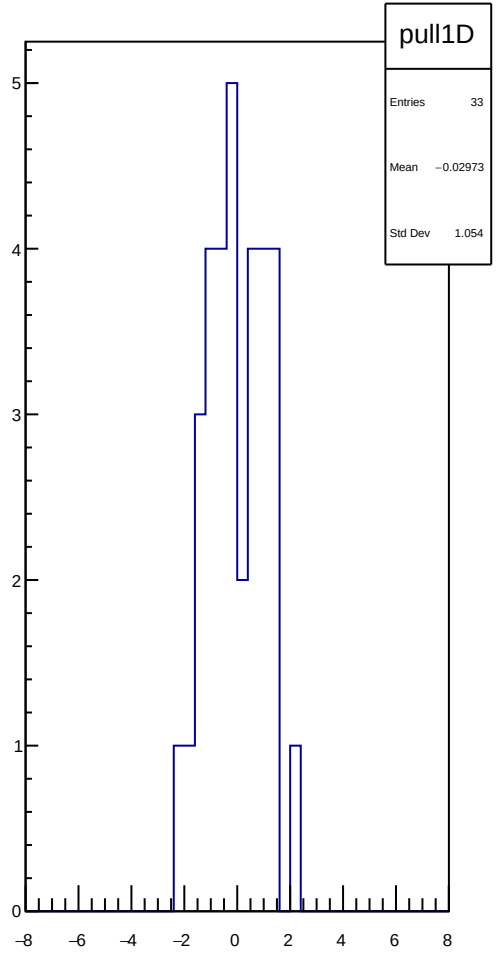

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.621e+05 / 25
p0 1.673e−10 ± 2.804e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

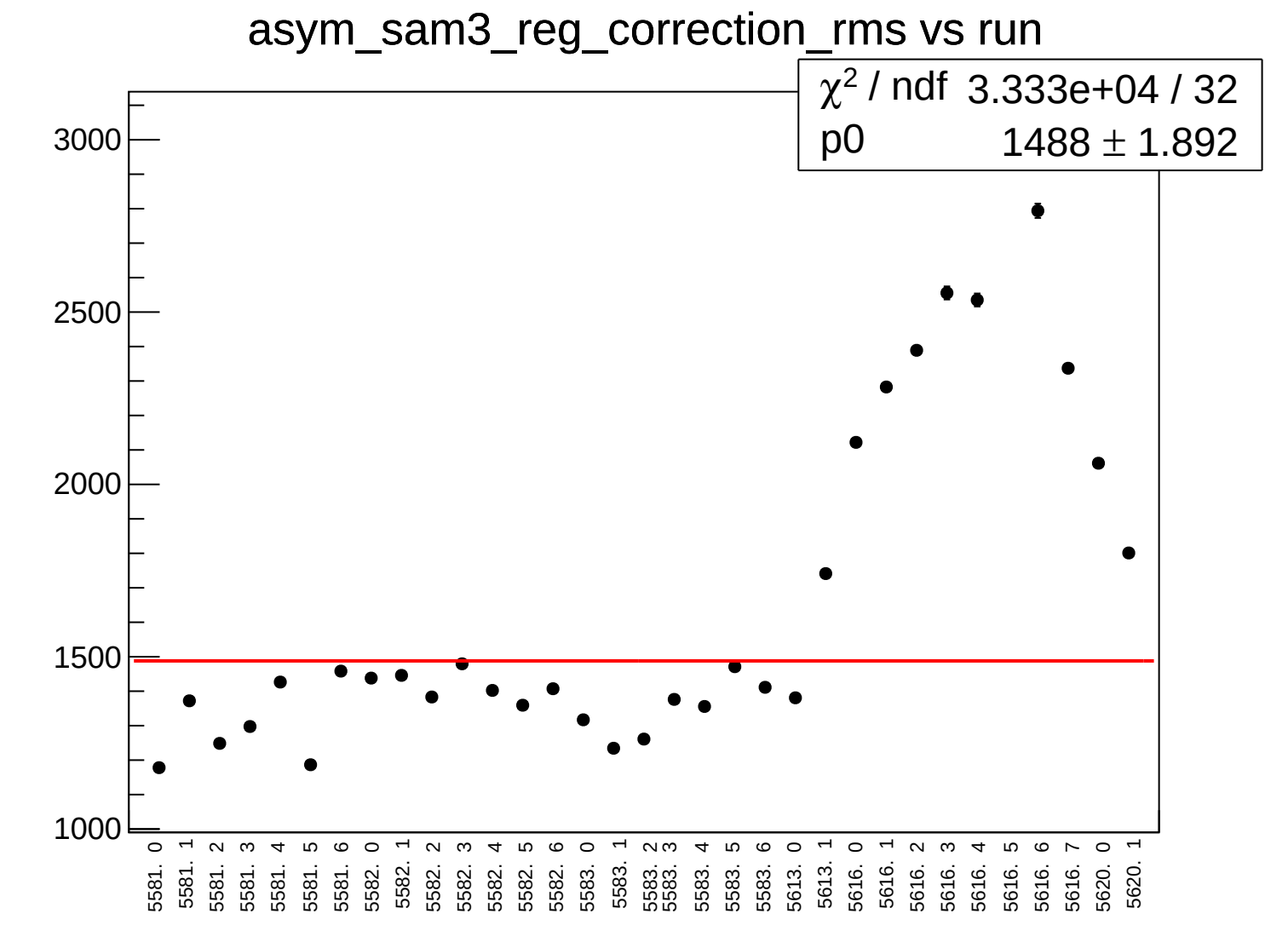

reg_asym_sam3_mean vs run
χ² / ndf 36.45 / 32
p0 −480.3 ± 335.4
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 9.43
Std Dev 24.56
2
1
0
−1
−2

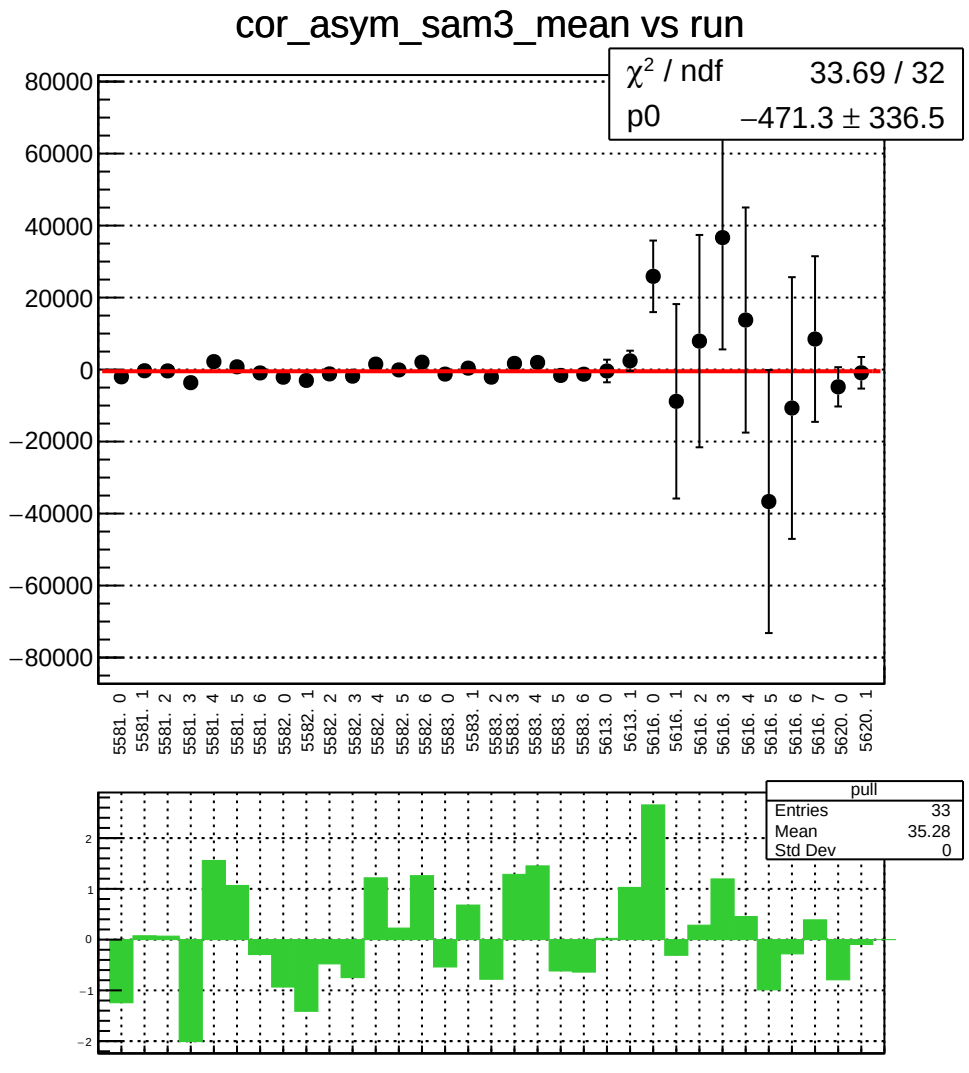

pull1D
Entries 33
Mean −0.03958
Std Dev 1.05
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

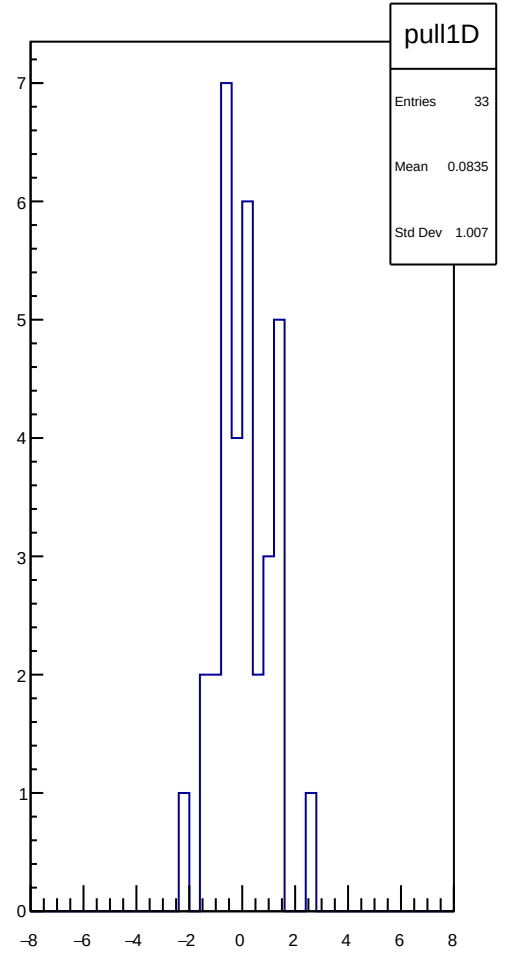

reg_asym_sam3_rms vs run
χ² / ndf 1.607e+05 / 32
p0 166.2 ± 0.2372
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

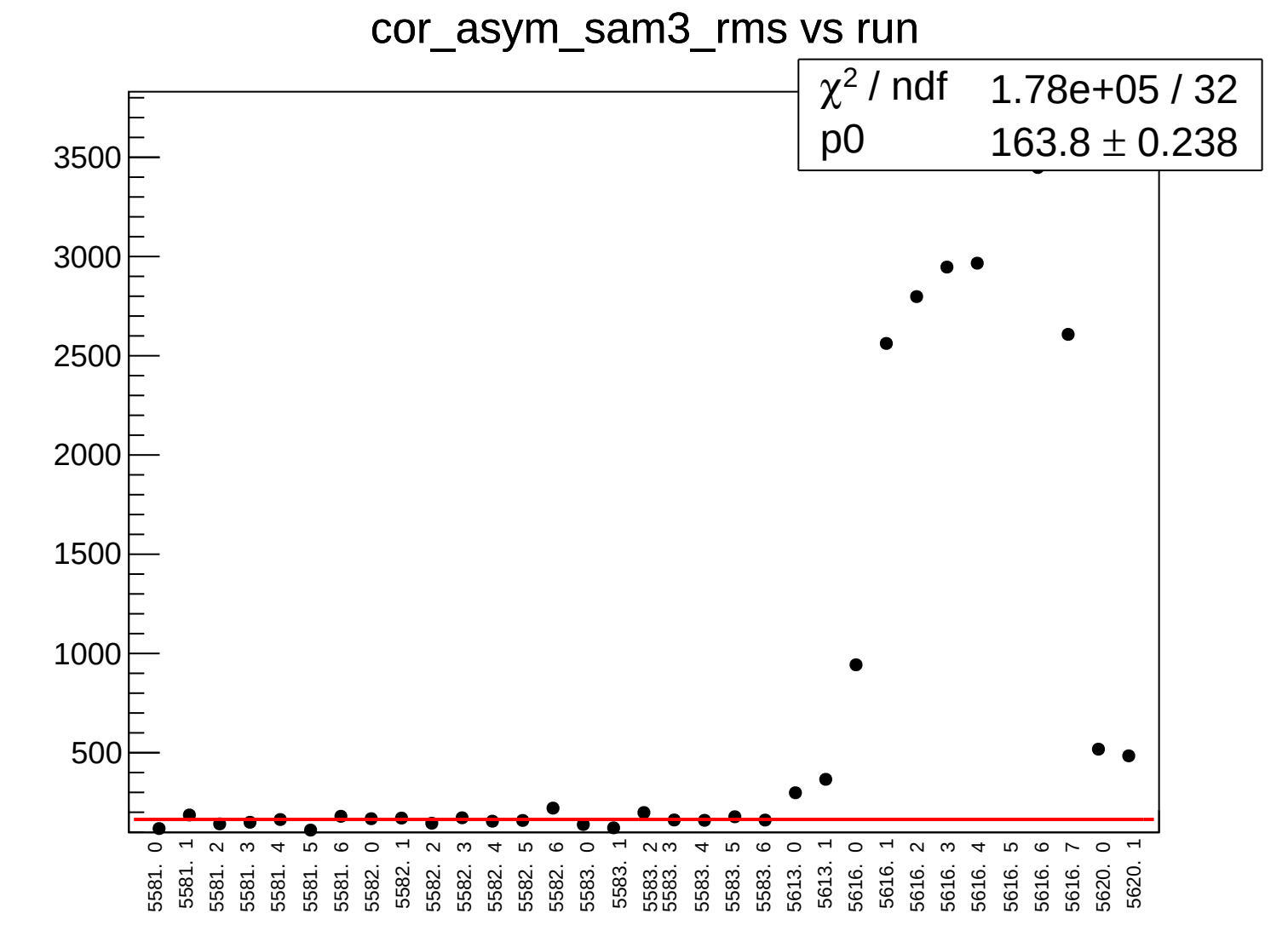

asym_sam3_reg_correction_mean vs run
χ² / ndf 36.71 / 32
p0 −3772 ± 2675
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 53.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

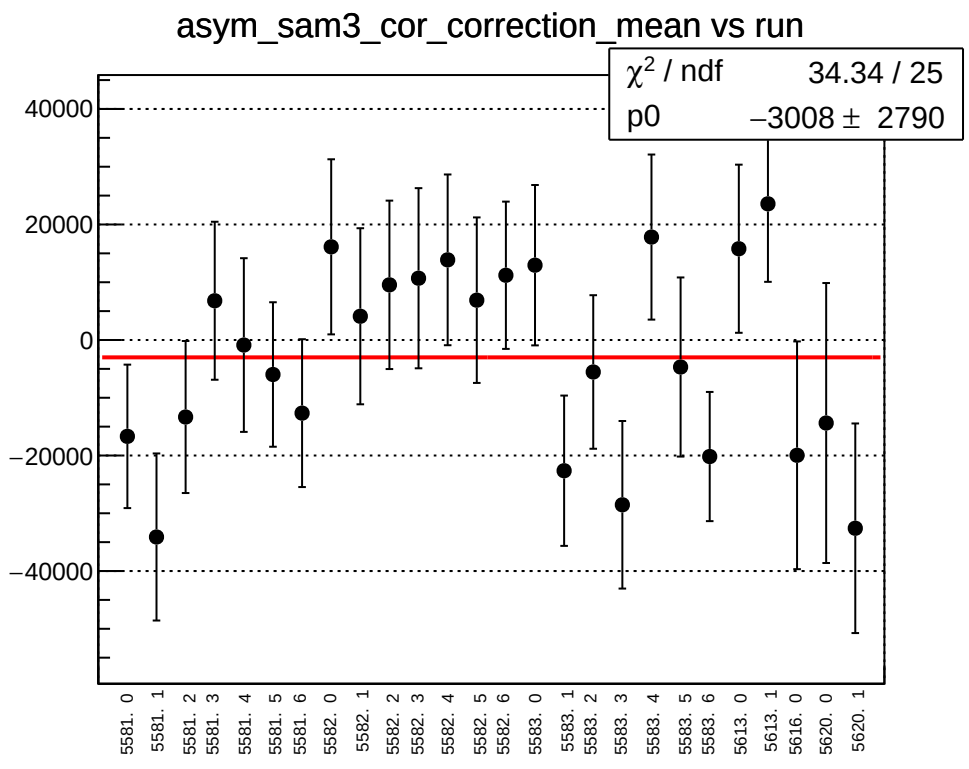

pull1D
Entries 33
Mean −0.02973
Std Dev 1.054
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

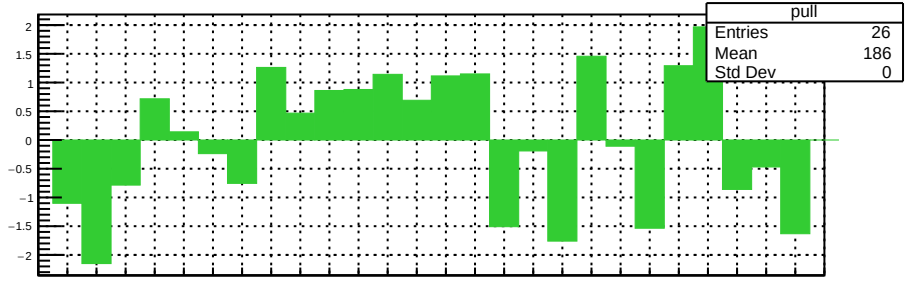

asym_sam3_reg_correction_rms vs run
χ² / ndf 3.333e+04 / 32
p0 1488 ± 1.892
3000
2500
2000
1500
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

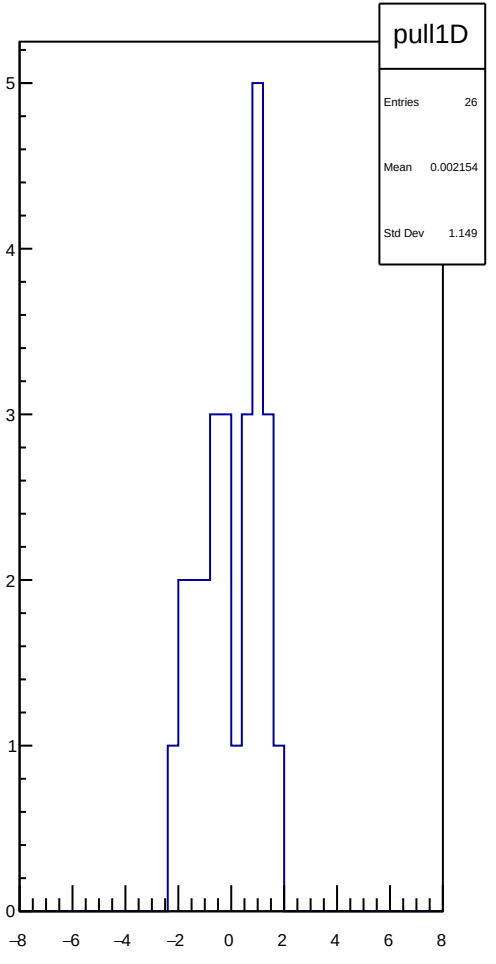

cor_asym_sam3_mean vs run
χ² / ndf 33.69 / 32
p0 −471.3 ± 336.5
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.28
Std Dev 0
2
1
0
−1
−2

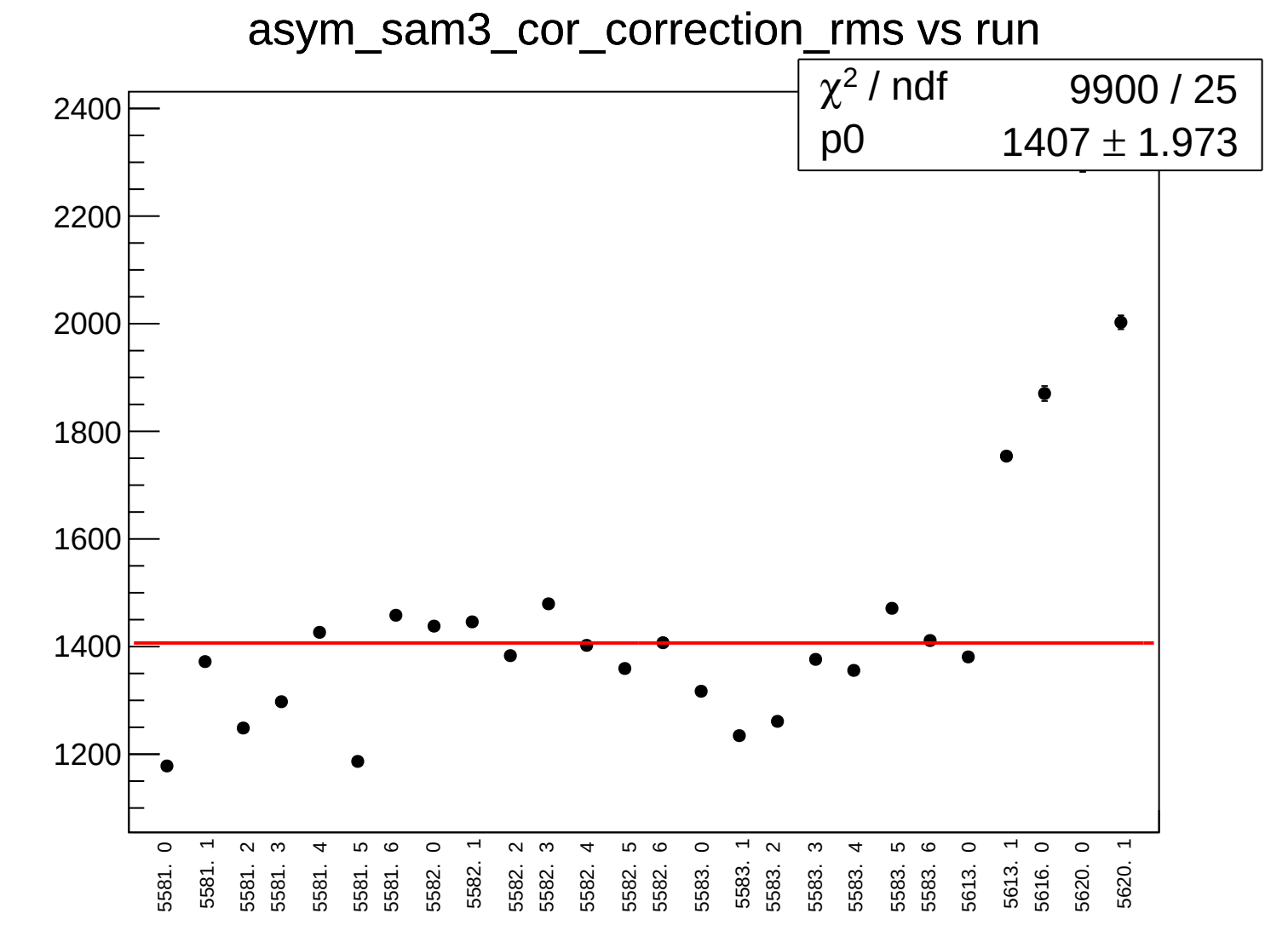

pull1D
Entries 33
Mean 0.0835
Std Dev 1.007
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

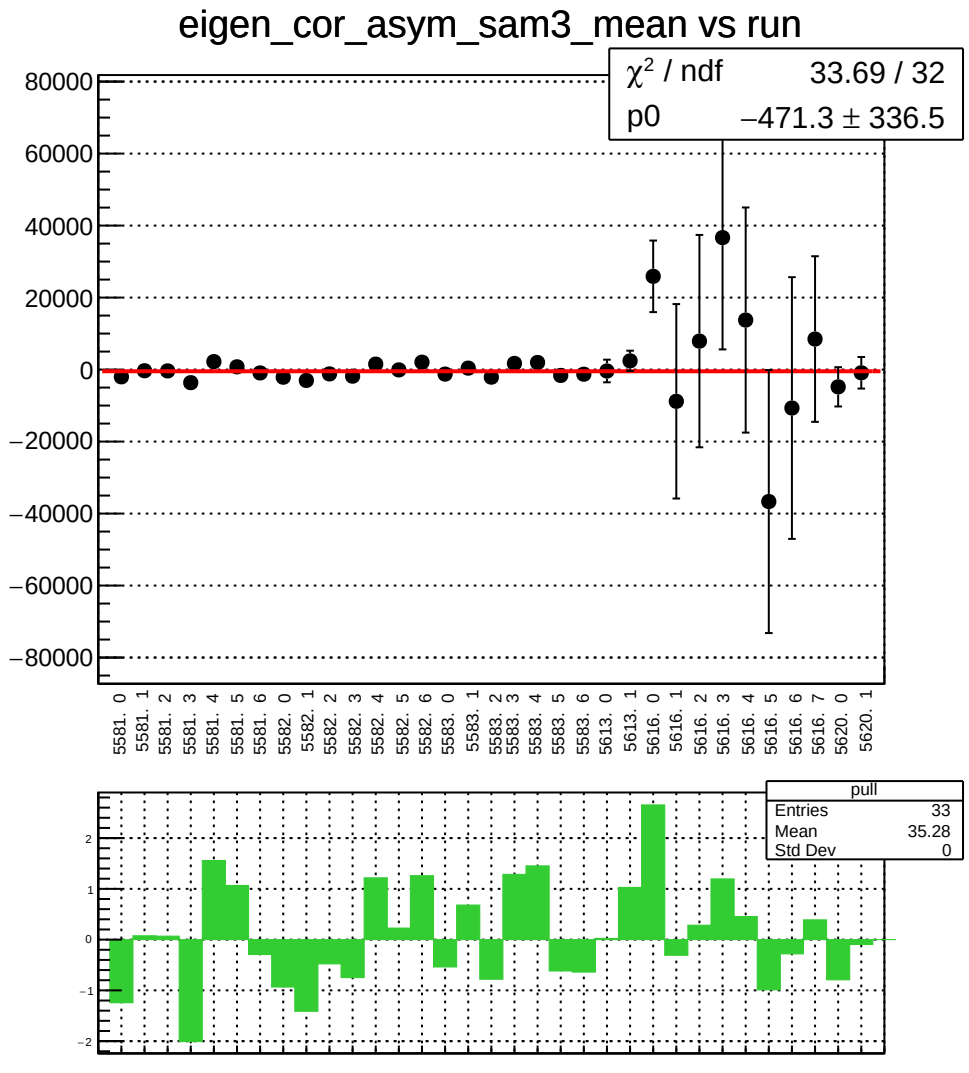

cor_asym_sam3_rms vs run
χ² / ndf 1.78e+05 / 32
p0 163.8 ± 0.238
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

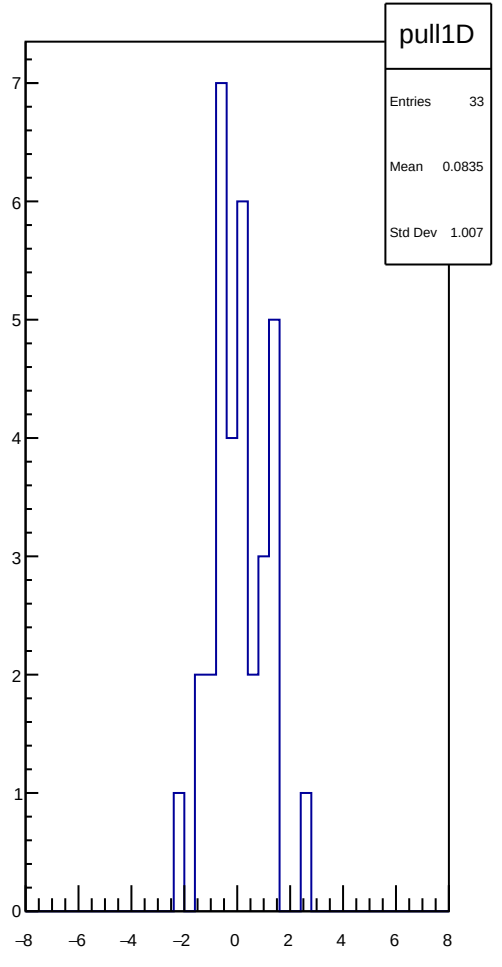

asym_sam3_cor_correction_mean vs run
χ² / ndf 34.34 / 25
p0 −3008 ± 2790
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

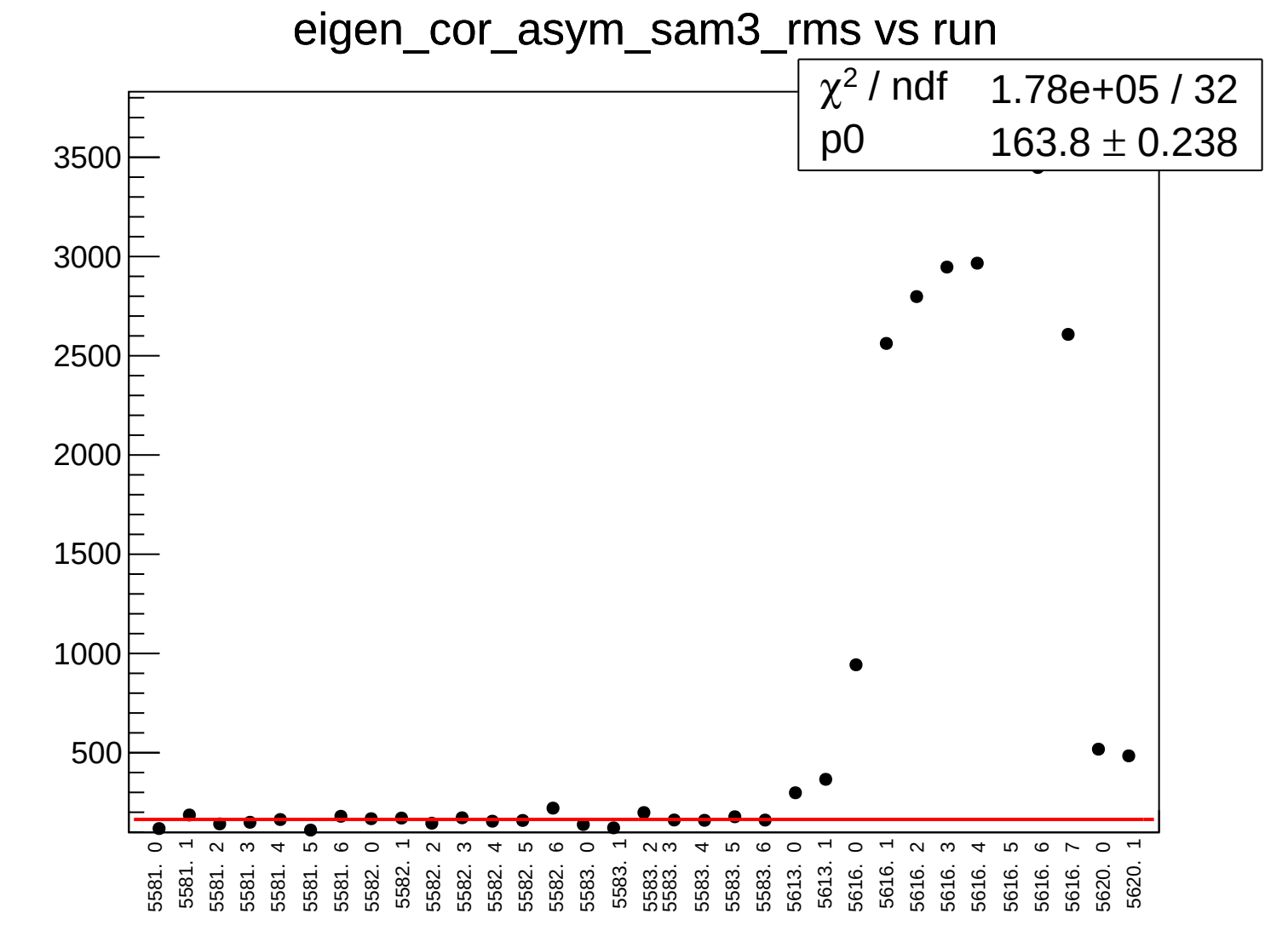

pull
Entries 26
Mean 186
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

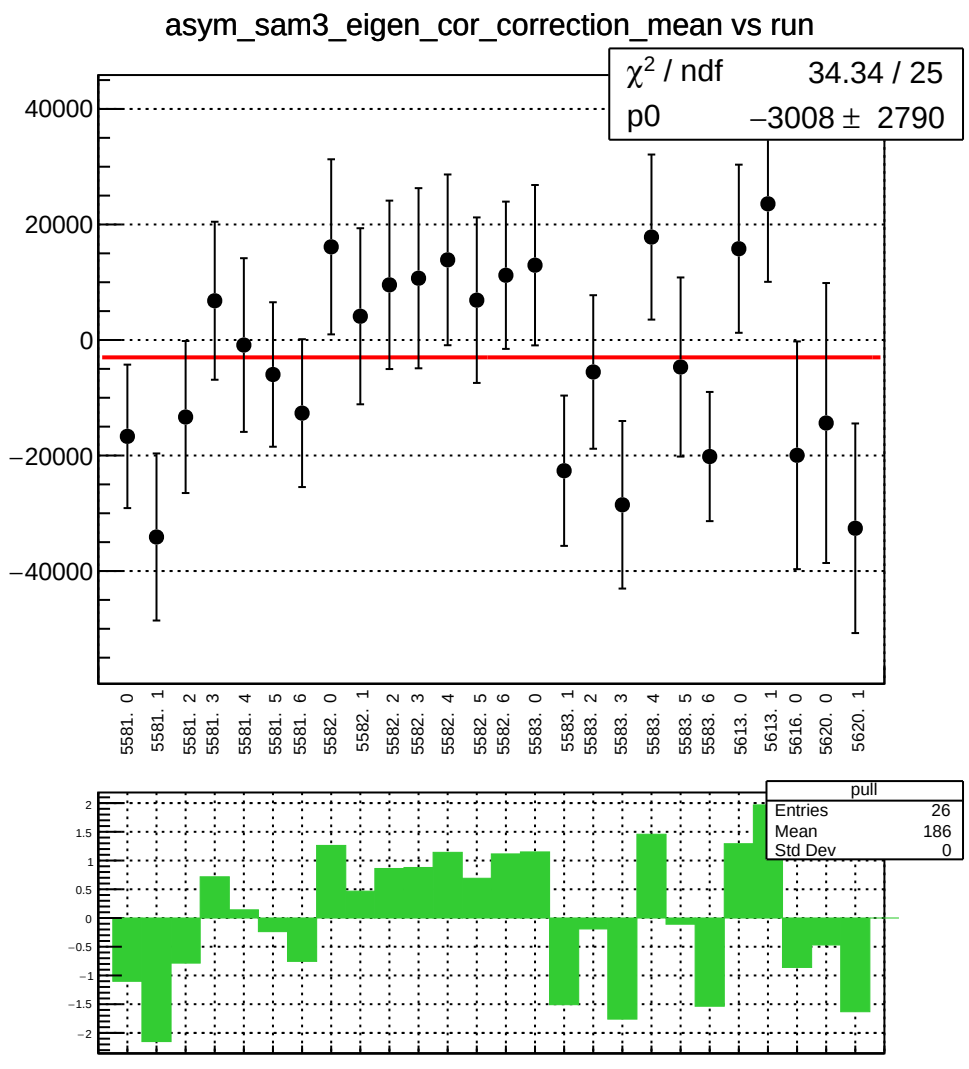

pull1D
Entries 26
Mean 0.002154
Std Dev 1.149
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

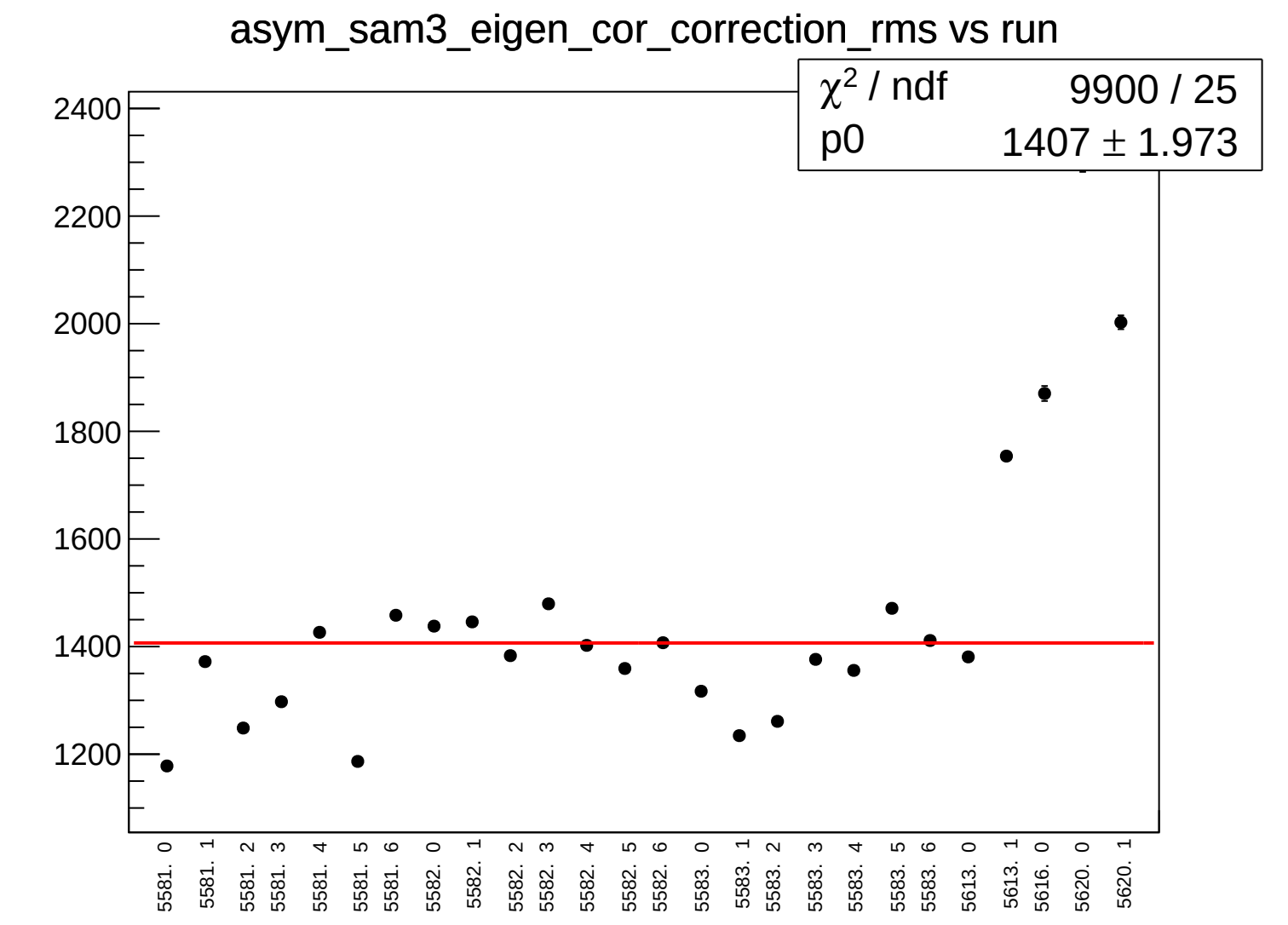

asym_sam3_cor_correction_rms vs run
χ² / ndf 9900 / 25
p0 1407 ± 1.973
2400
2200
2000
1800
1600
1400
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

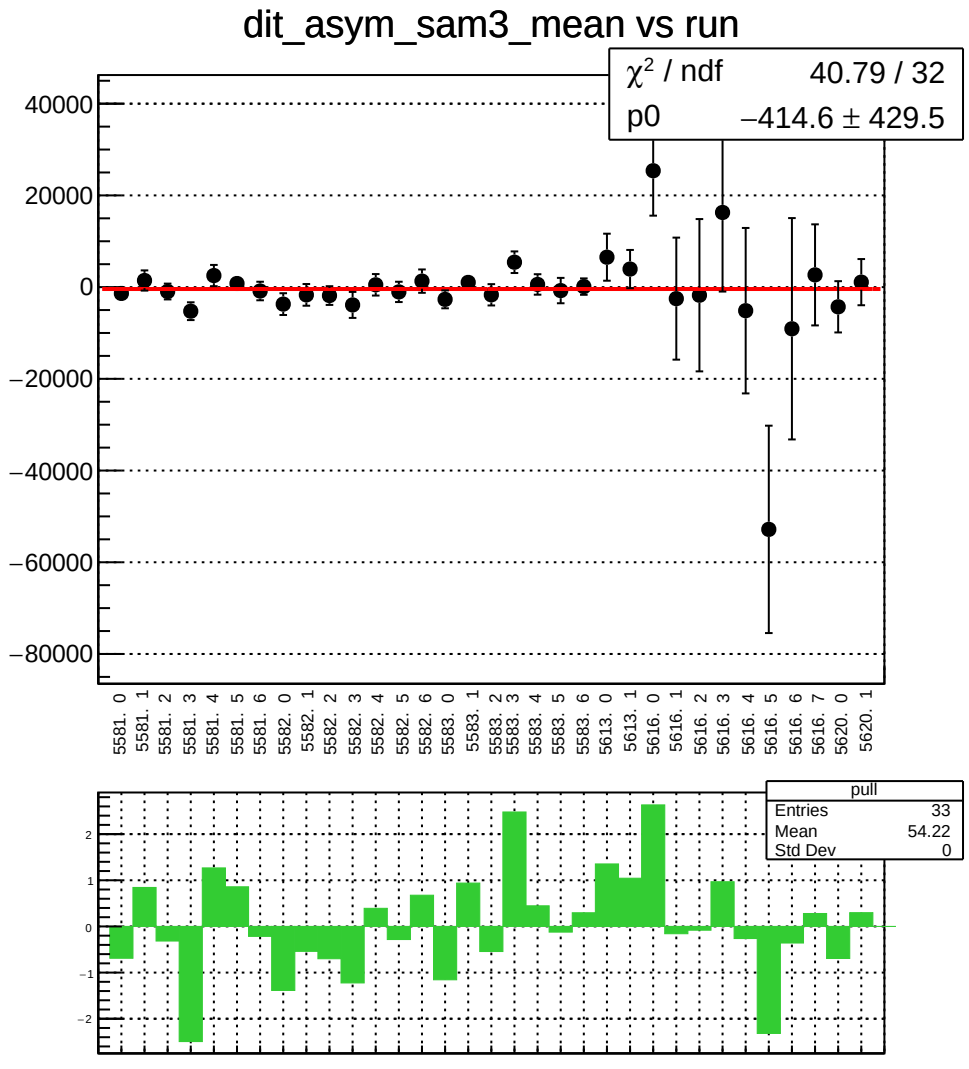

eigen_cor_asym_sam3_mean vs run
χ² / ndf 33.69 / 32
p0 −471.3 ± 336.5
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.28
Std Dev 0
2
1
0
−1
−2

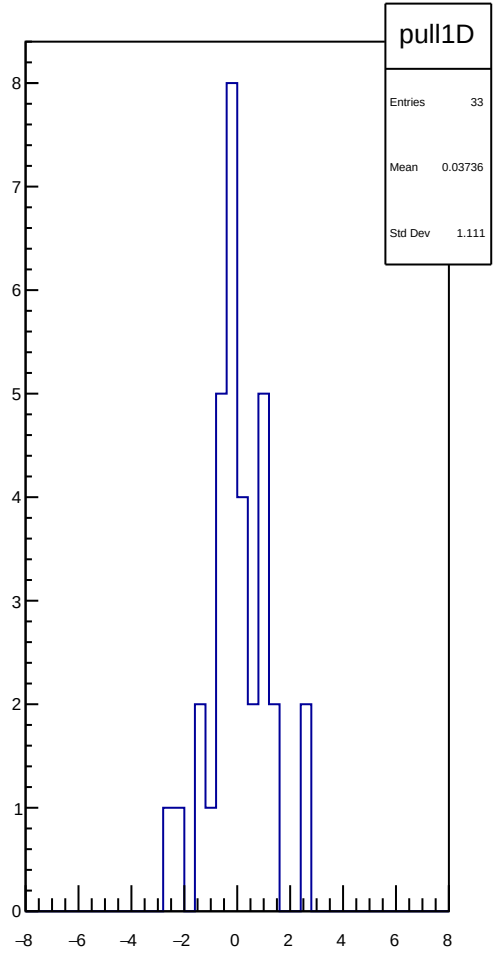

pull1D
Entries 33
Mean 0.0835
Std Dev 1.007
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

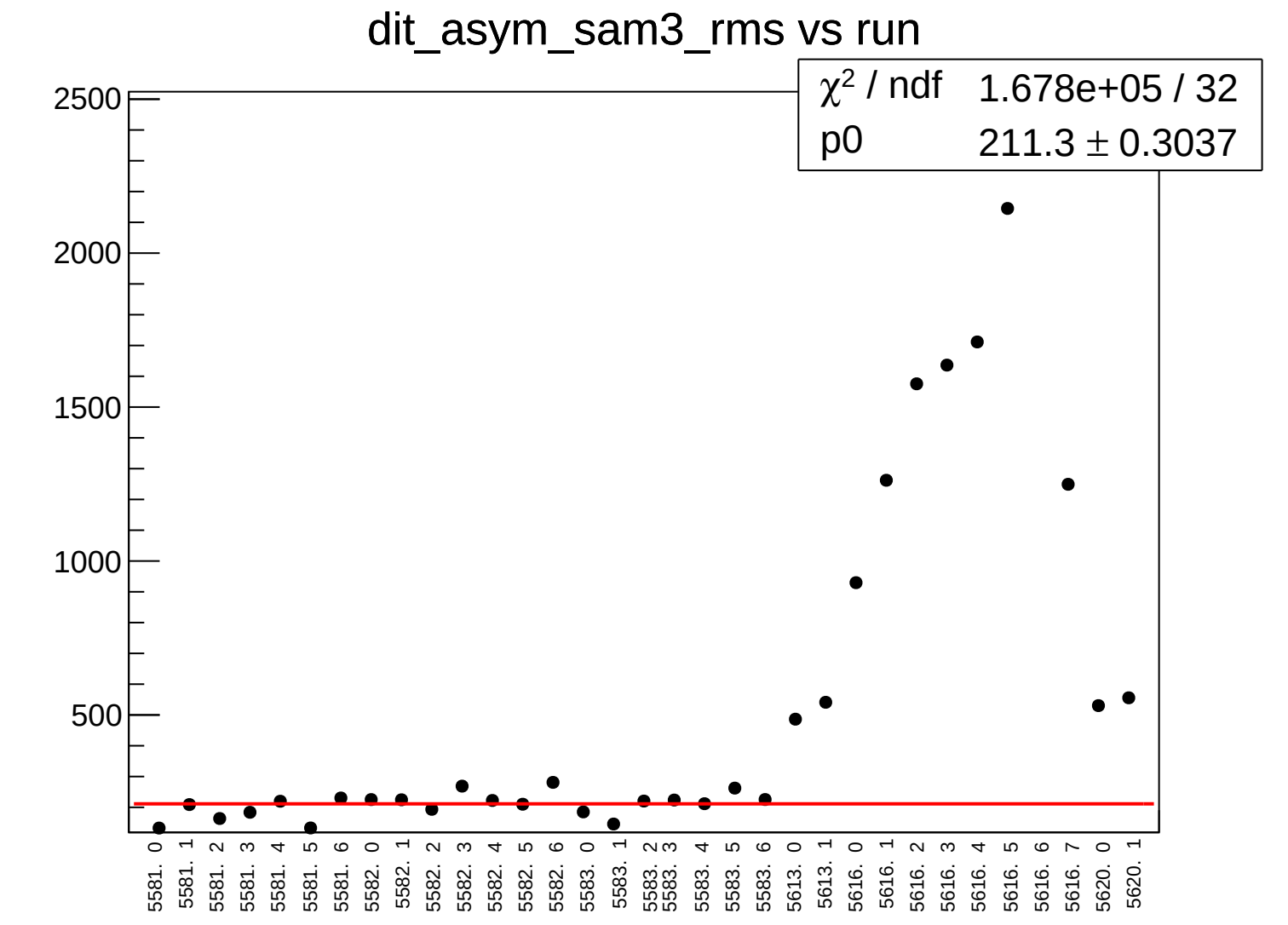

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.78e+05 / 32
p0 163.8 ± 0.238
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

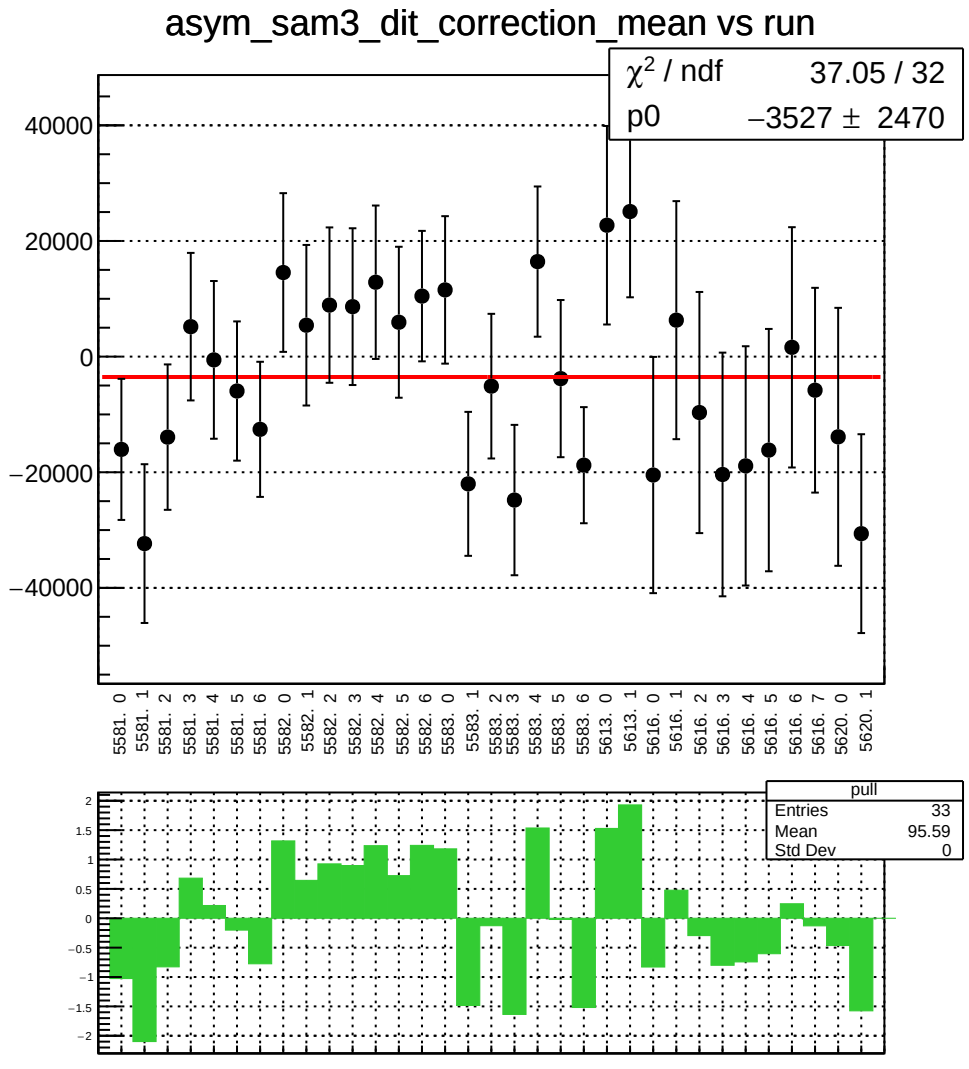

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 34.34 / 25
p0 −3008 ± 2790
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 186
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.002154
Std Dev 1.149
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

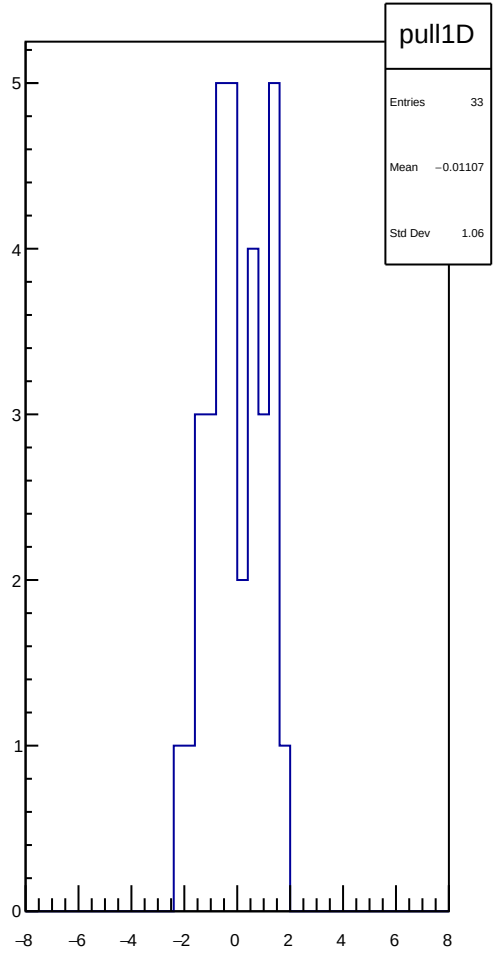

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 9900 / 25
p0 1407 ± 1.973
2400
2200
2000
1800
1600
1400
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

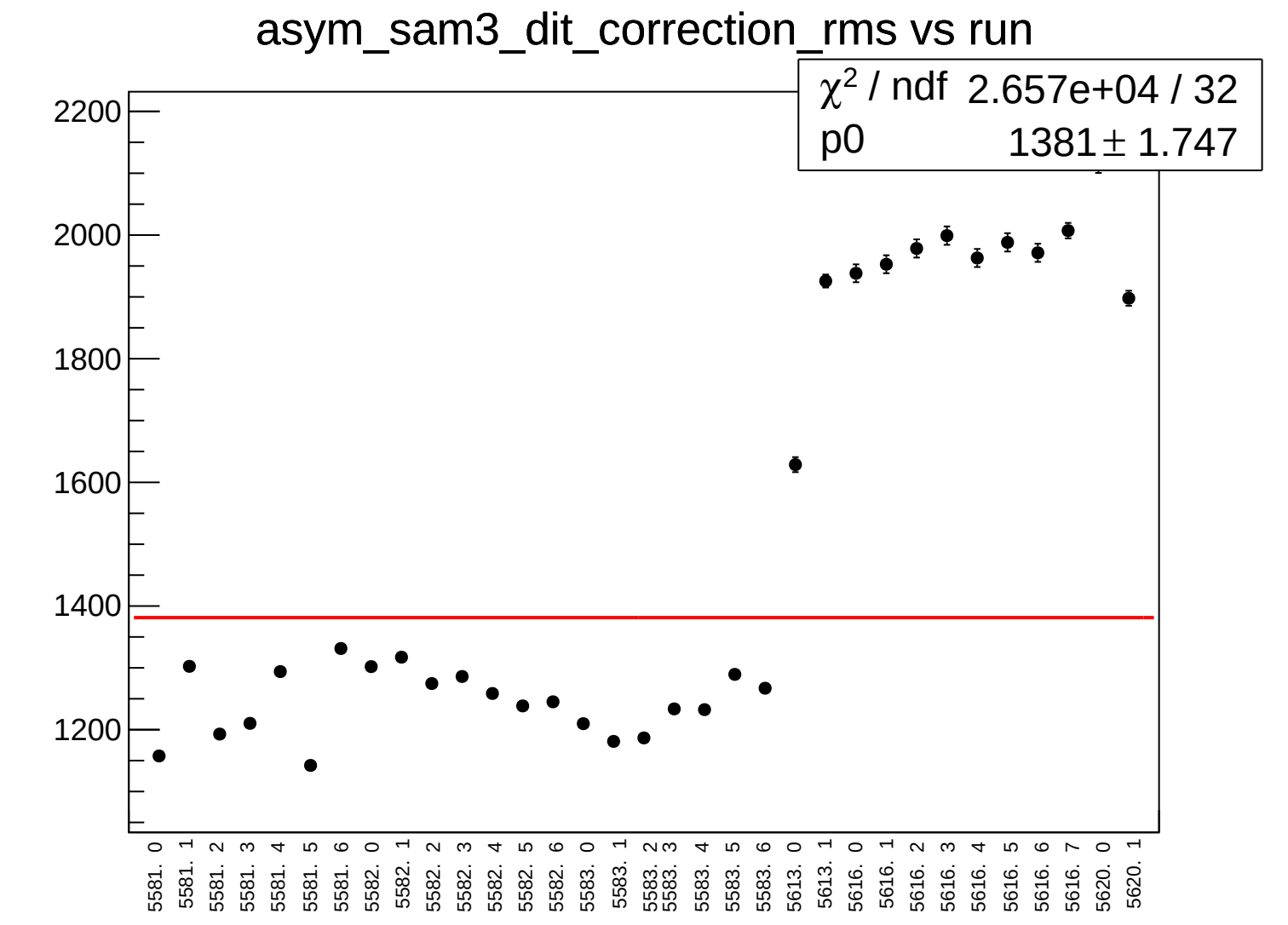

dit_asym_sam3_mean vs run
χ² / ndf 40.79 / 32
p0 −414.6 ± 429.5
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 54.22
Std Dev 0
2
1
0
−1
−2

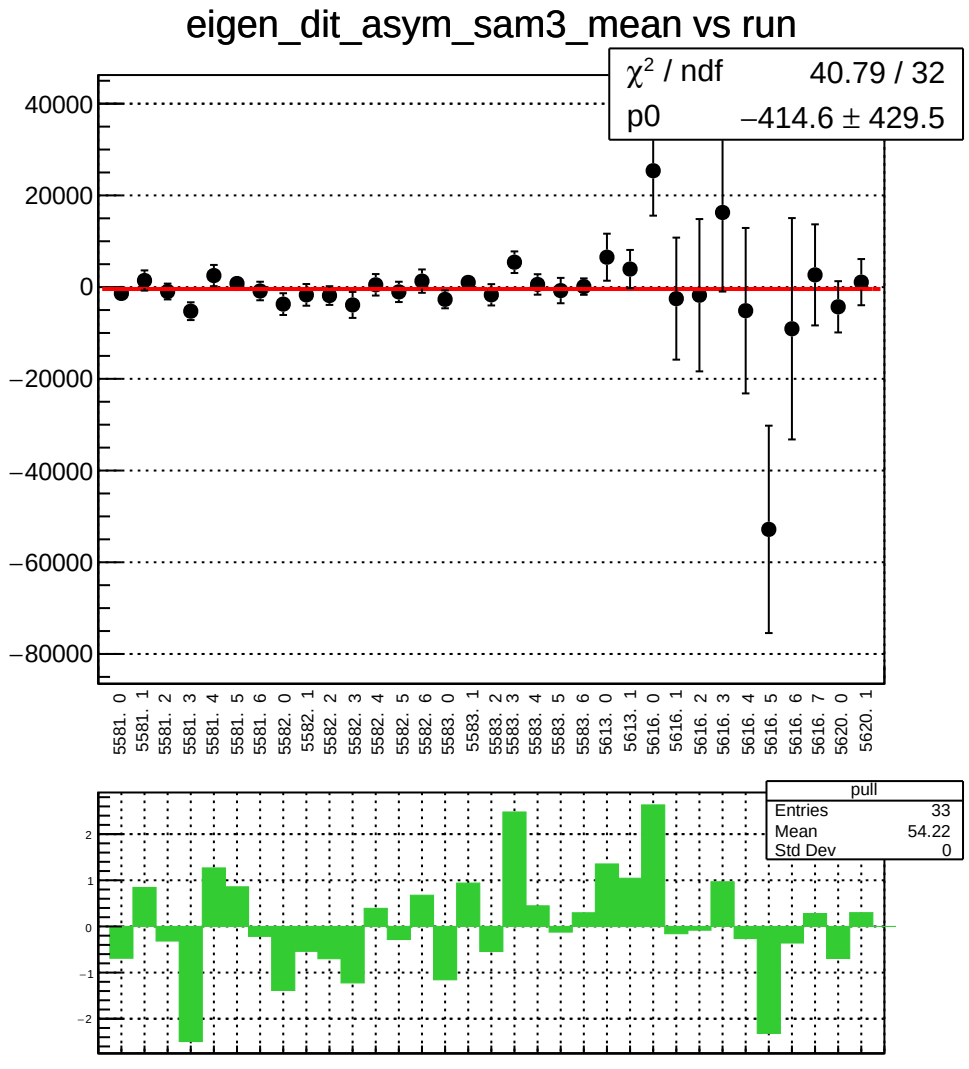

pull1D
Entries 33
Mean 0.03736
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

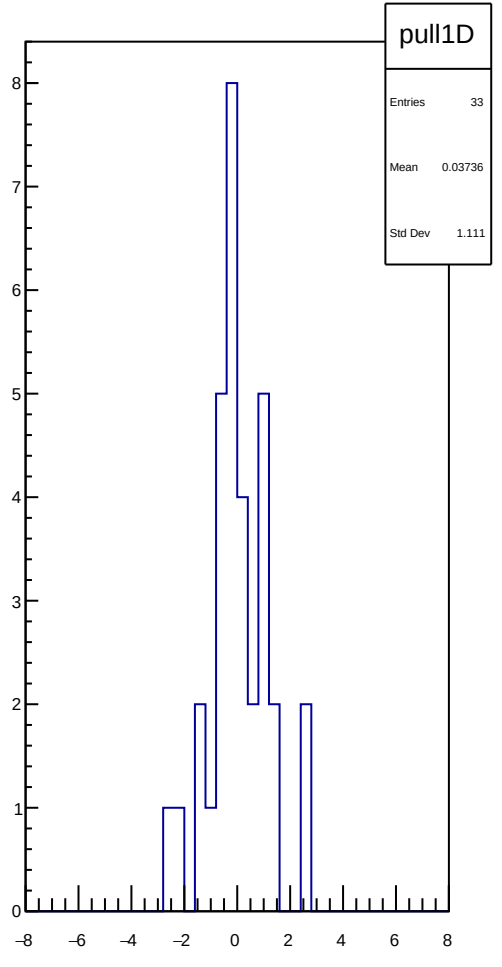

dit_asym_sam3_rms vs run
χ² / ndf 1.678e+05 / 32
p0 211.3 ± 0.3037
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

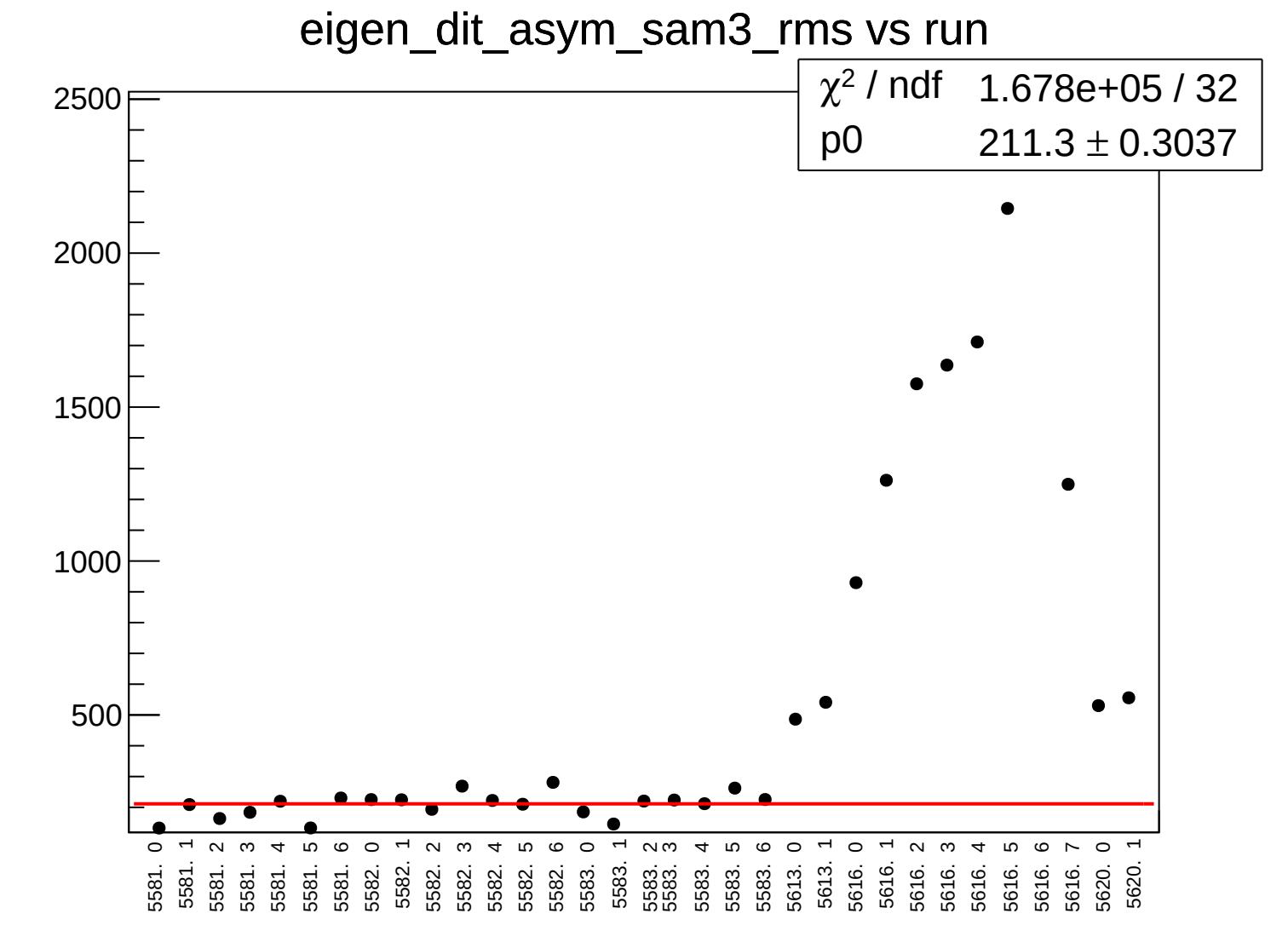

asym_sam3_dit_correction_mean vs run
χ² / ndf 37.05 / 32
p0 −3527 ± 2470
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 95.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

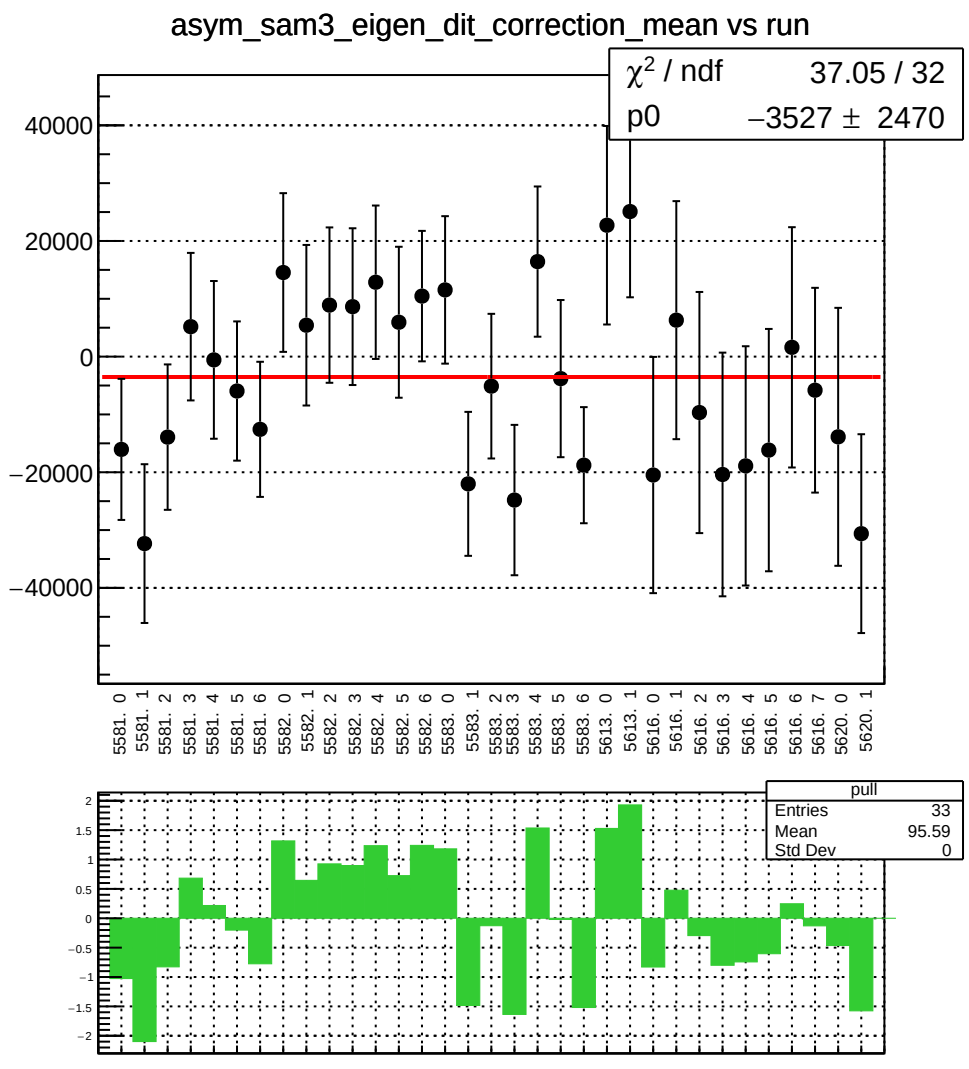

pull1D
Entries 33
Mean −0.01107
Std Dev 1.06
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

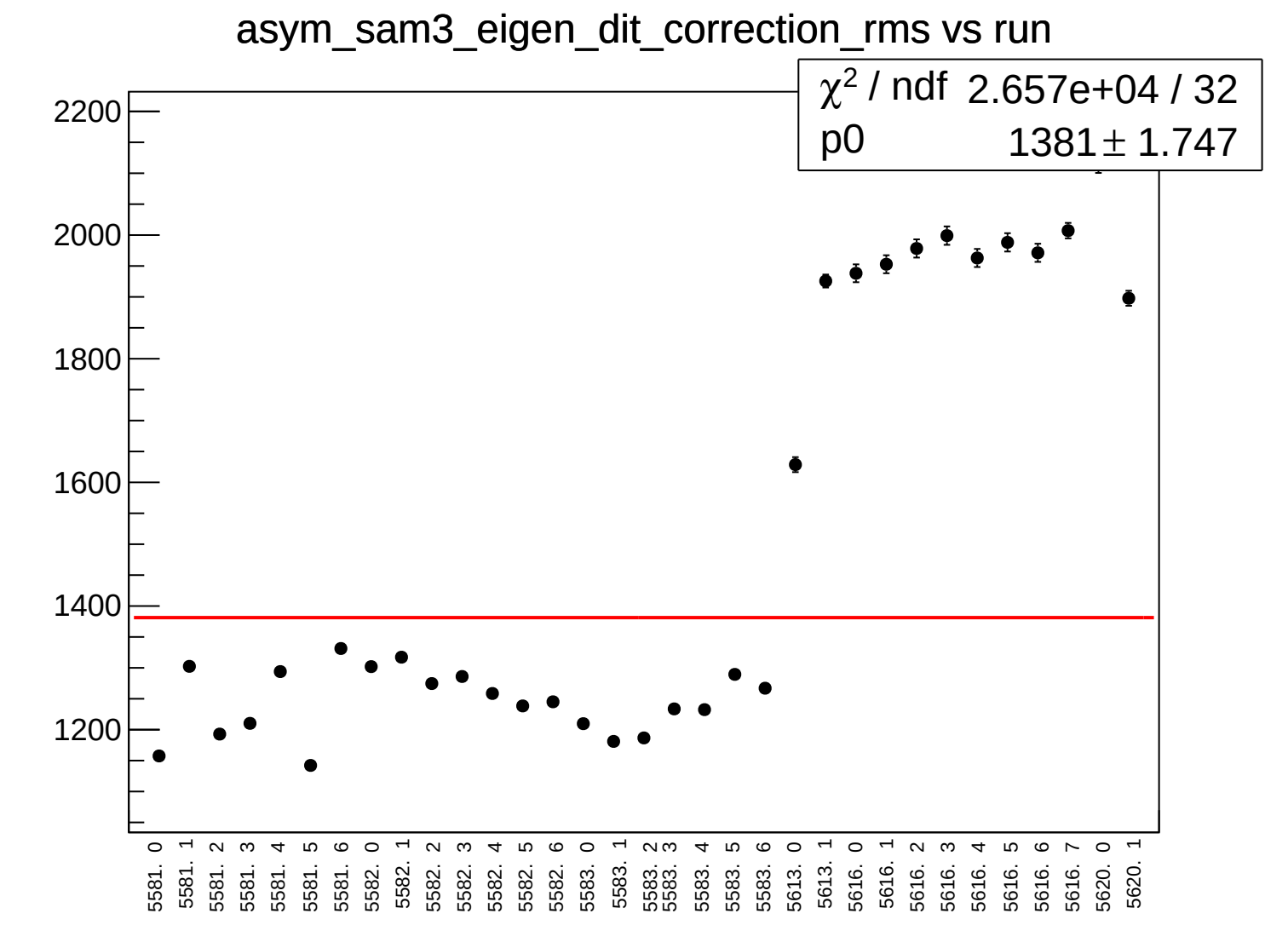

asym_sam3_dit_correction_rms vs run
χ² / ndf 2.657e+04 / 32
p0 1381 ± 1.747
2200
2000
1800
1600
1400
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

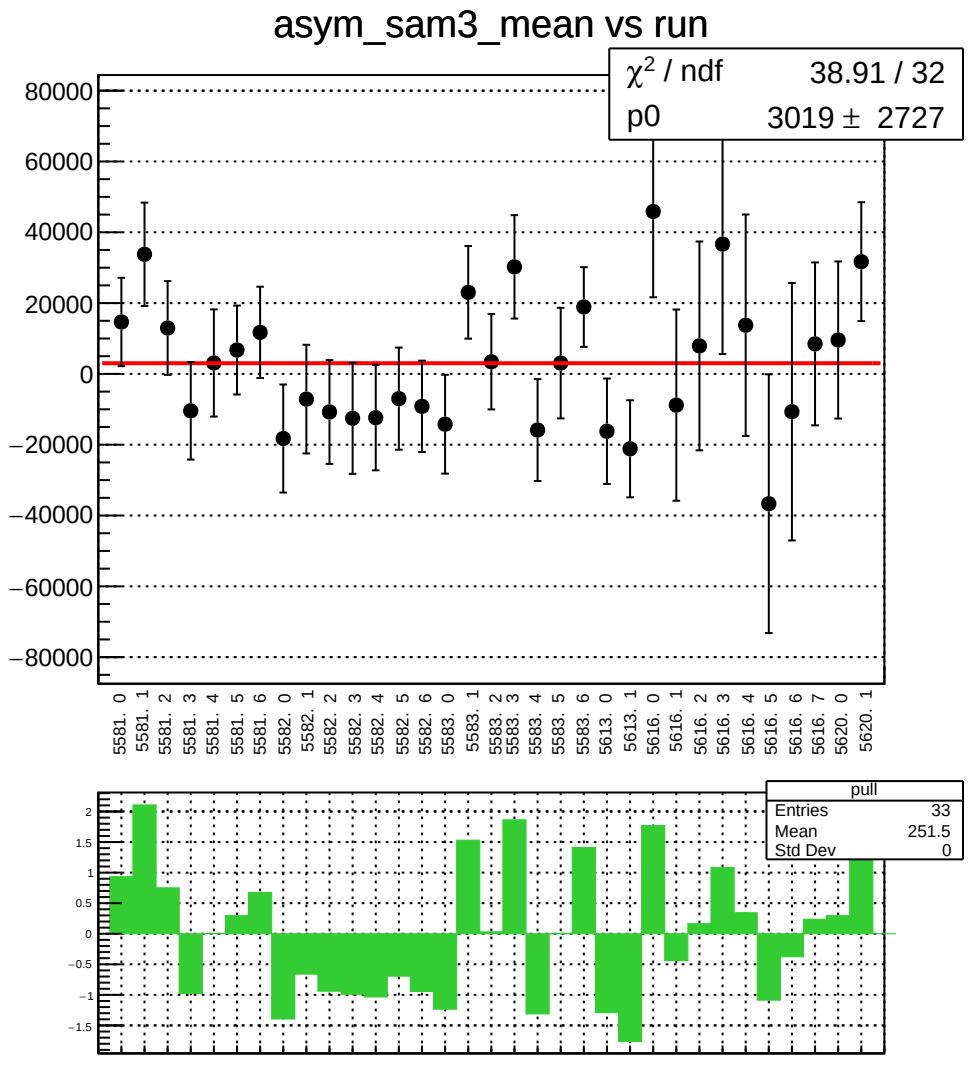

eigen_dit_asym_sam3_mean vs run
χ² / ndf 40.79 / 32
p0 −414.6 ± 429.5
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 54.22
Std Dev 0
2
1
0
−1
−2

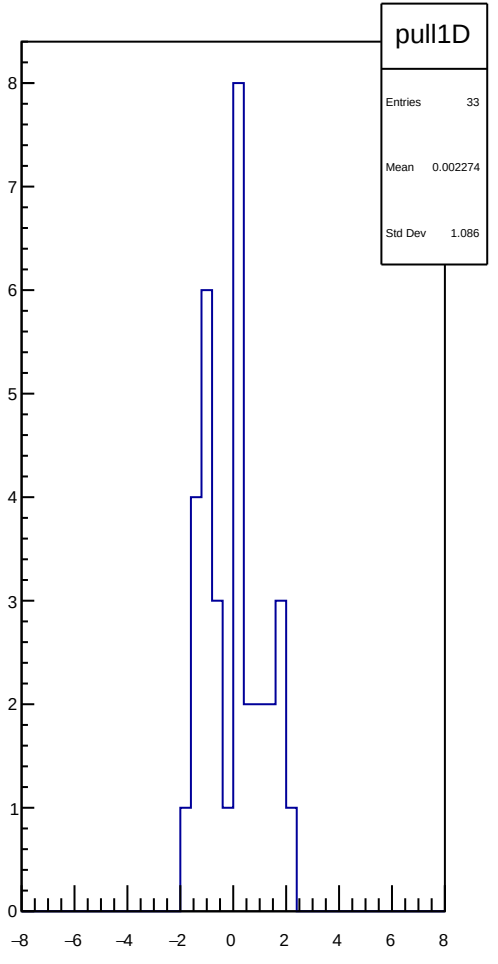

pull1D
Entries 33
Mean 0.03736
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

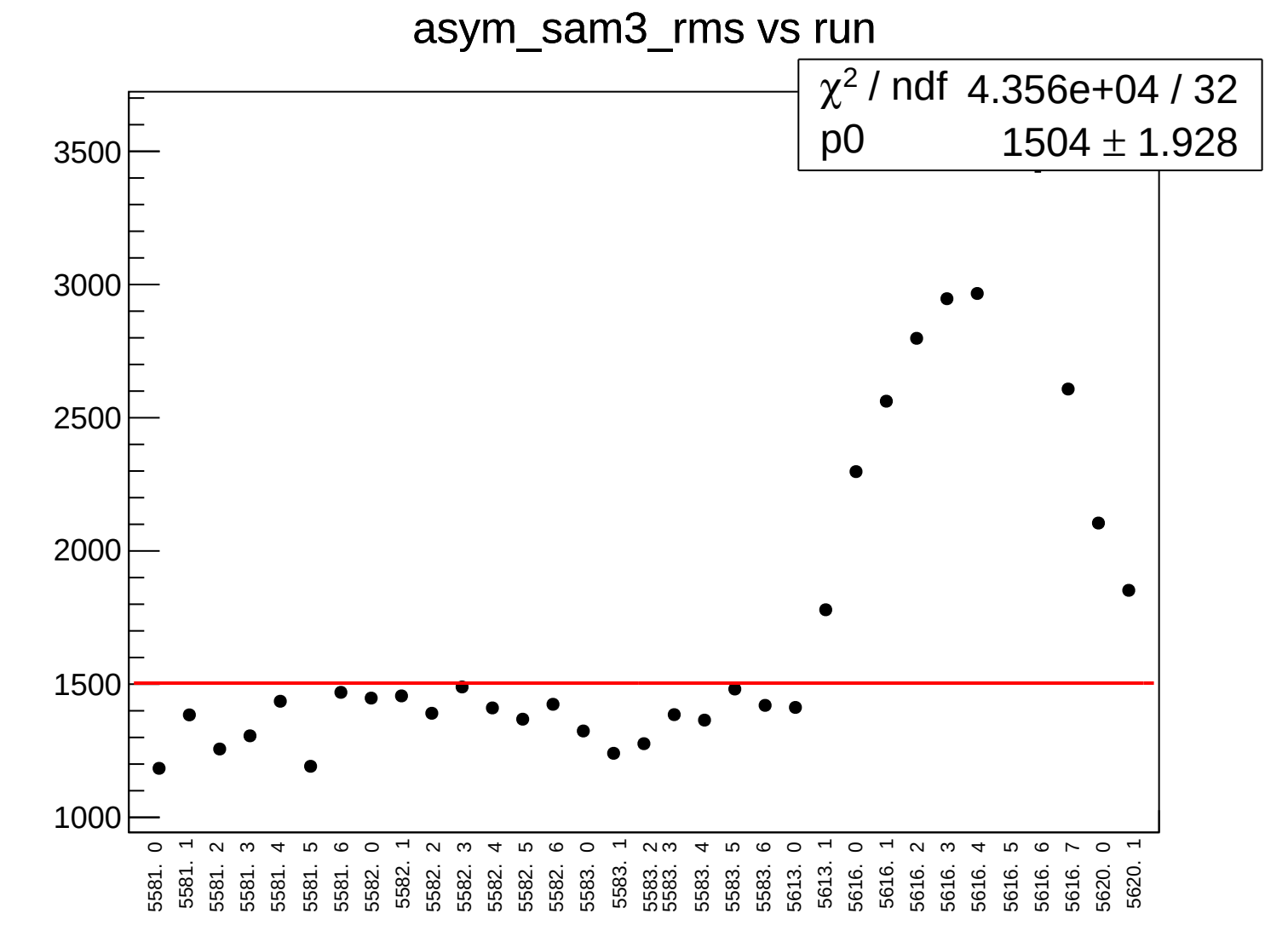

eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.678e+05 / 32
p0 211.3 ± 0.3037
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

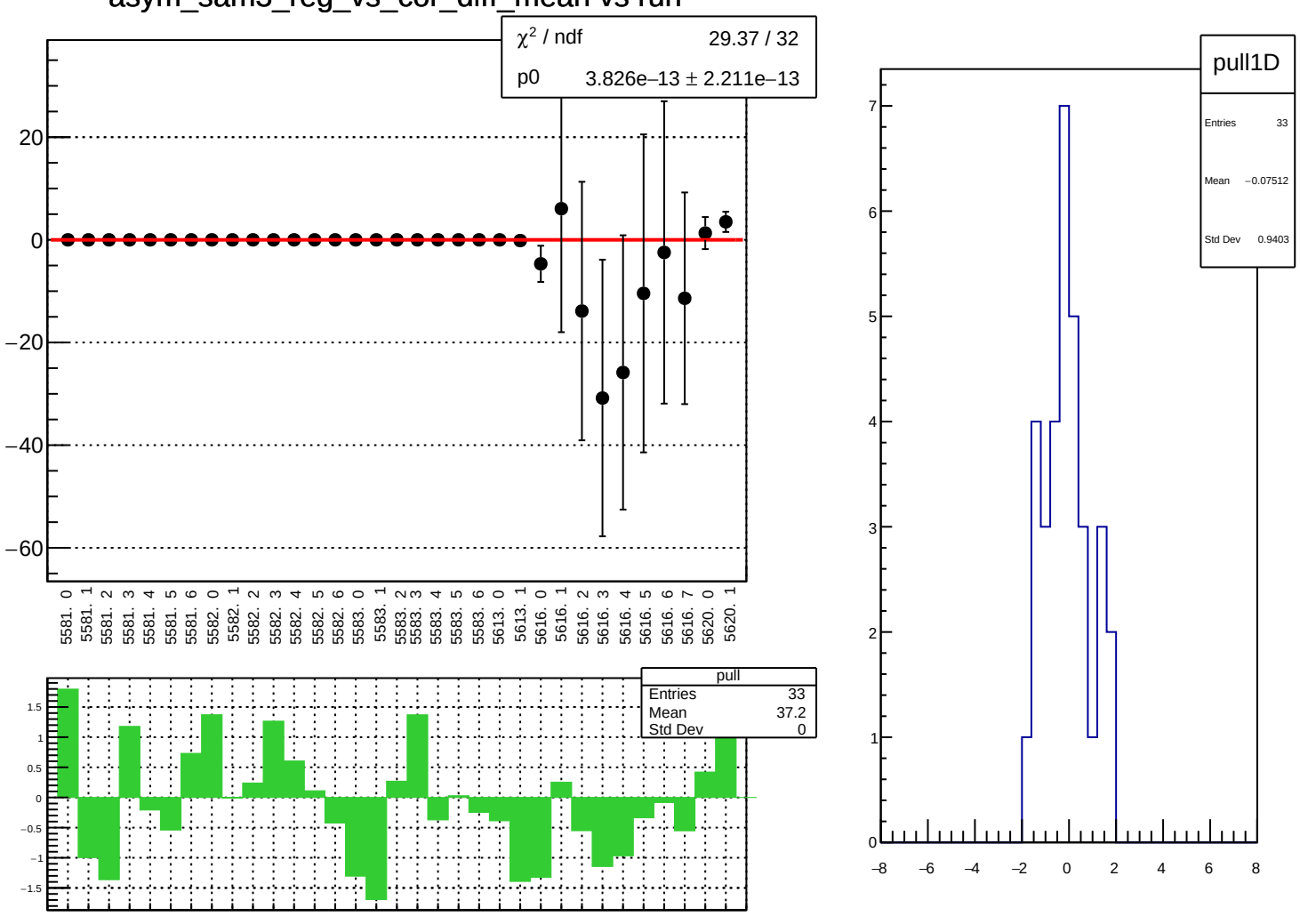

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 37.05 / 32
p0 −3527 ± 2470
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 95.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01107
Std Dev 1.06
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

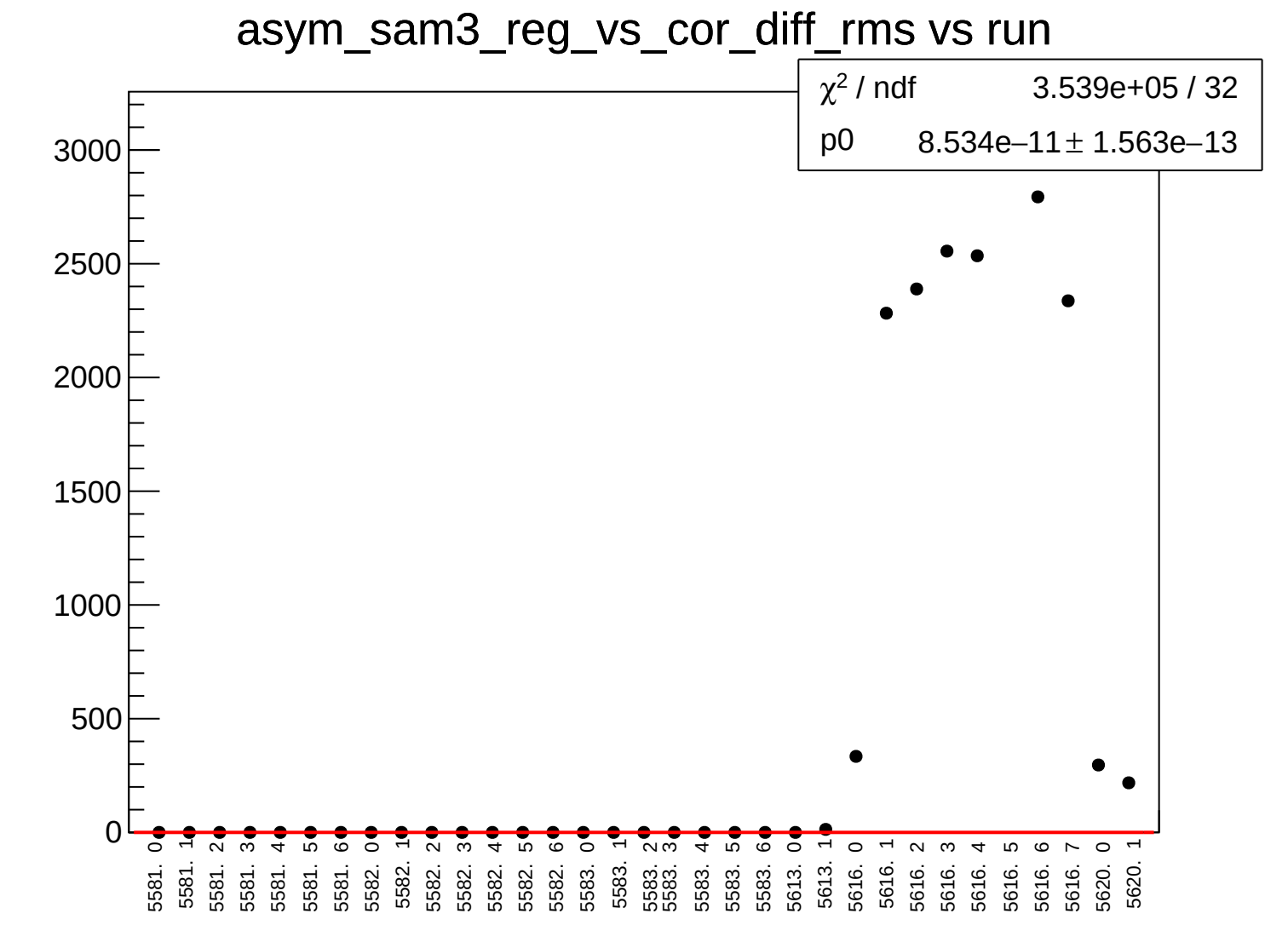

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 2.657e+04 / 32
p0 1381 ± 1.747
2200
2000
1800
1600
1400
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

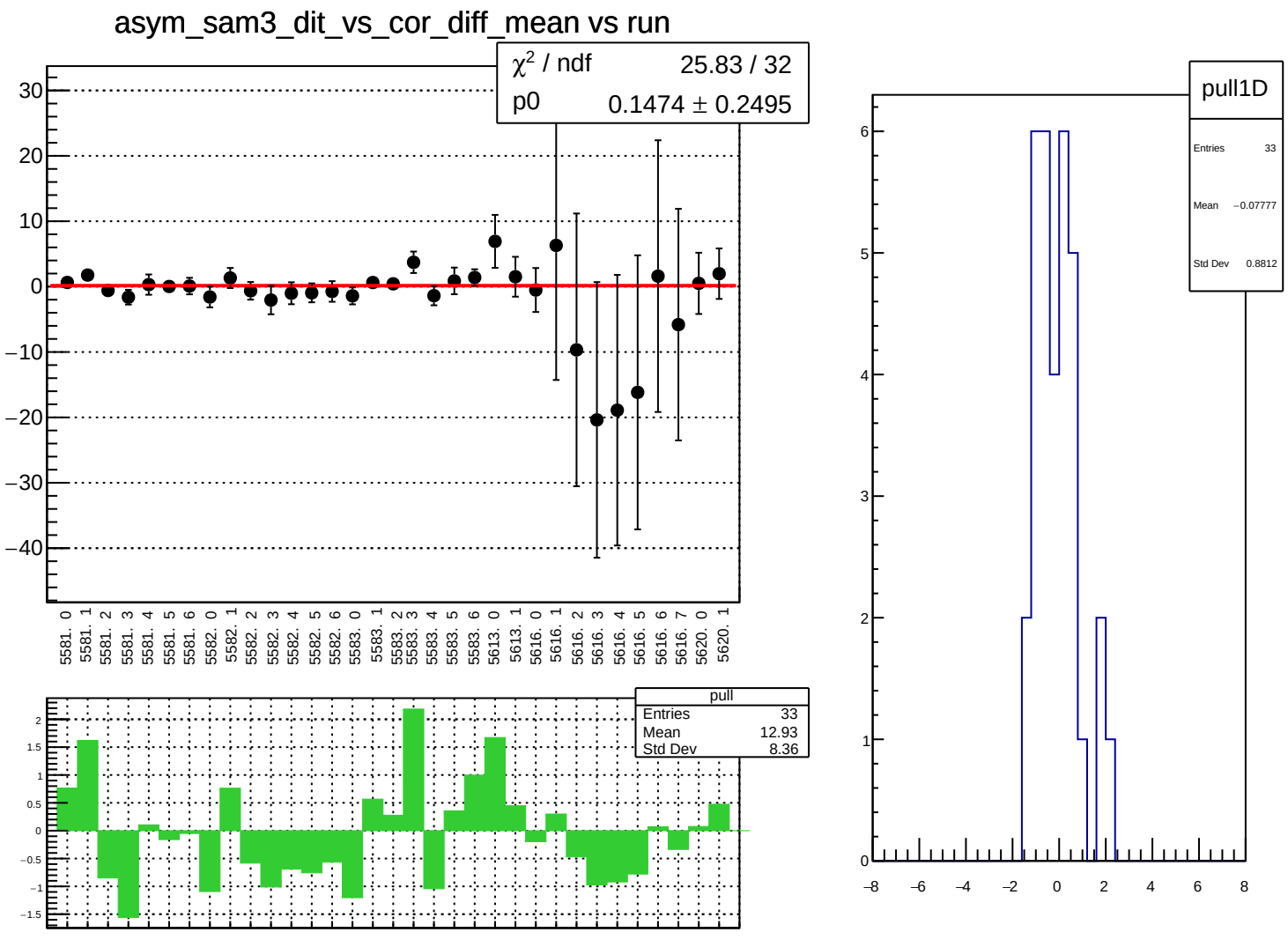

asym_sam3_mean vs run
χ² / ndf 38.91 / 32
p0 3019 ± 2727
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 251.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

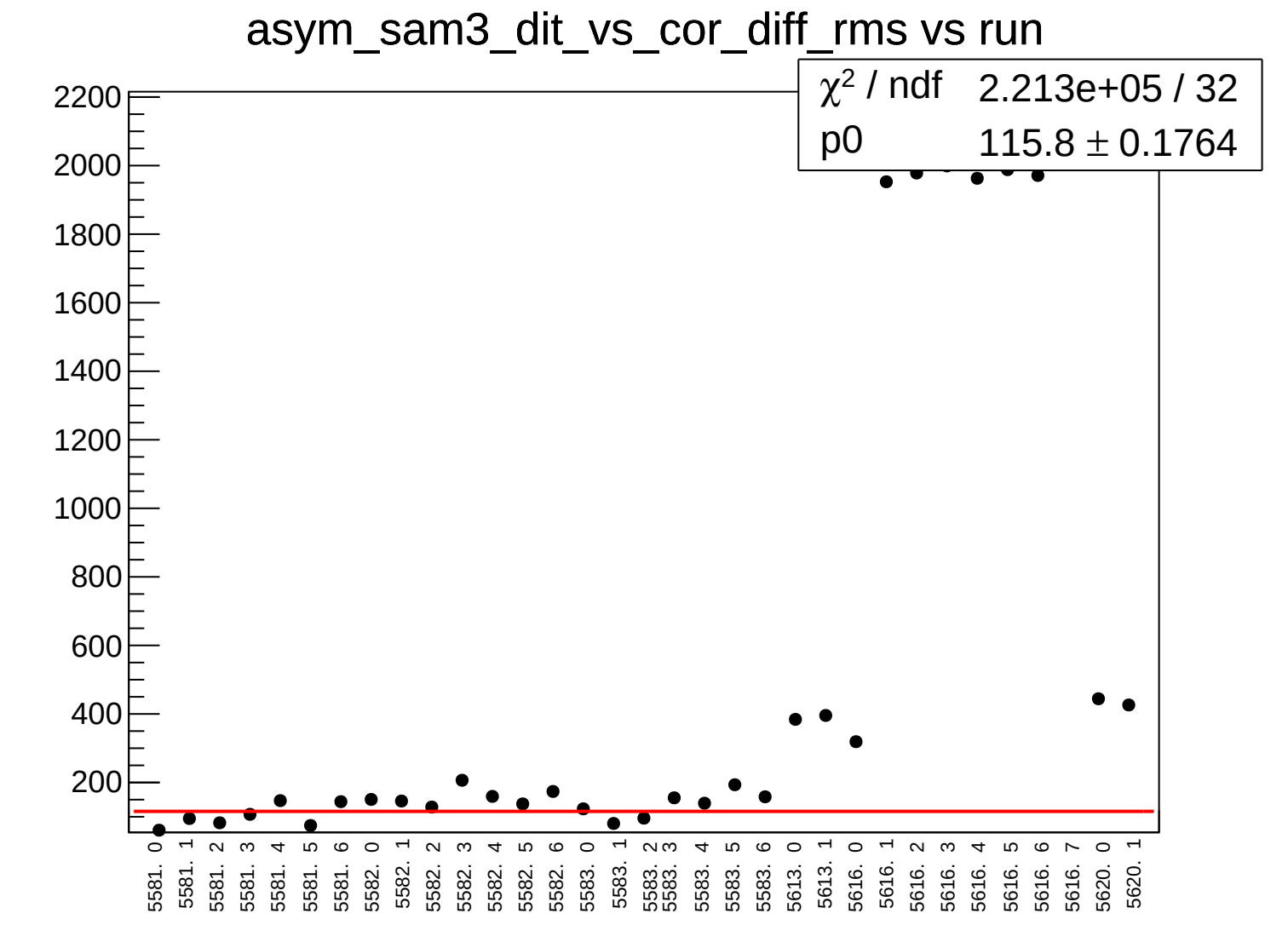

pull1D
Entries 33
Mean 0.002274
Std Dev 1.086
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

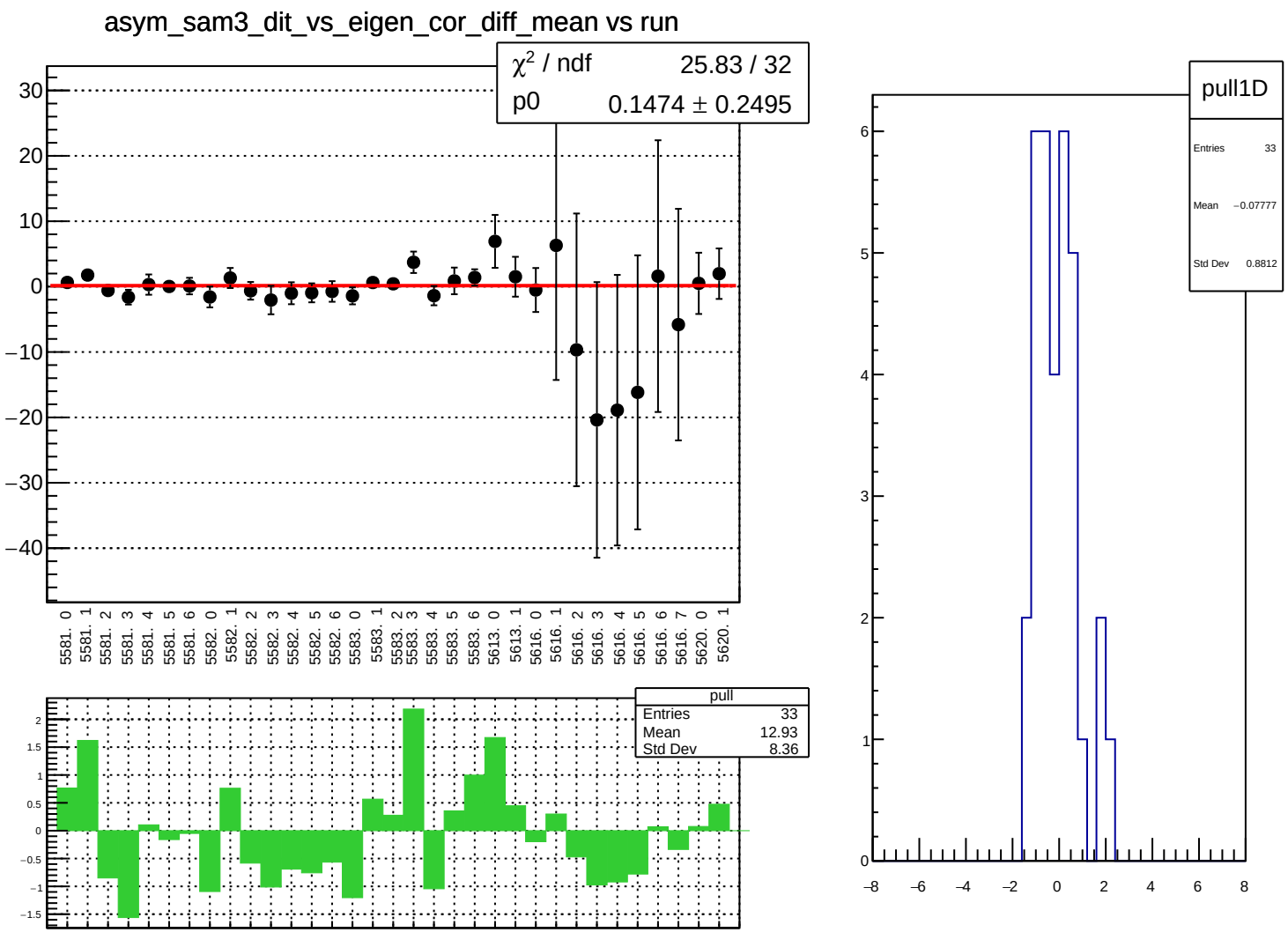

asym_sam3_rms vs run
χ² / ndf 4.356e+04 / 32
p0 1504 ± 1.928
3500
3000
2500
2000
1500
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

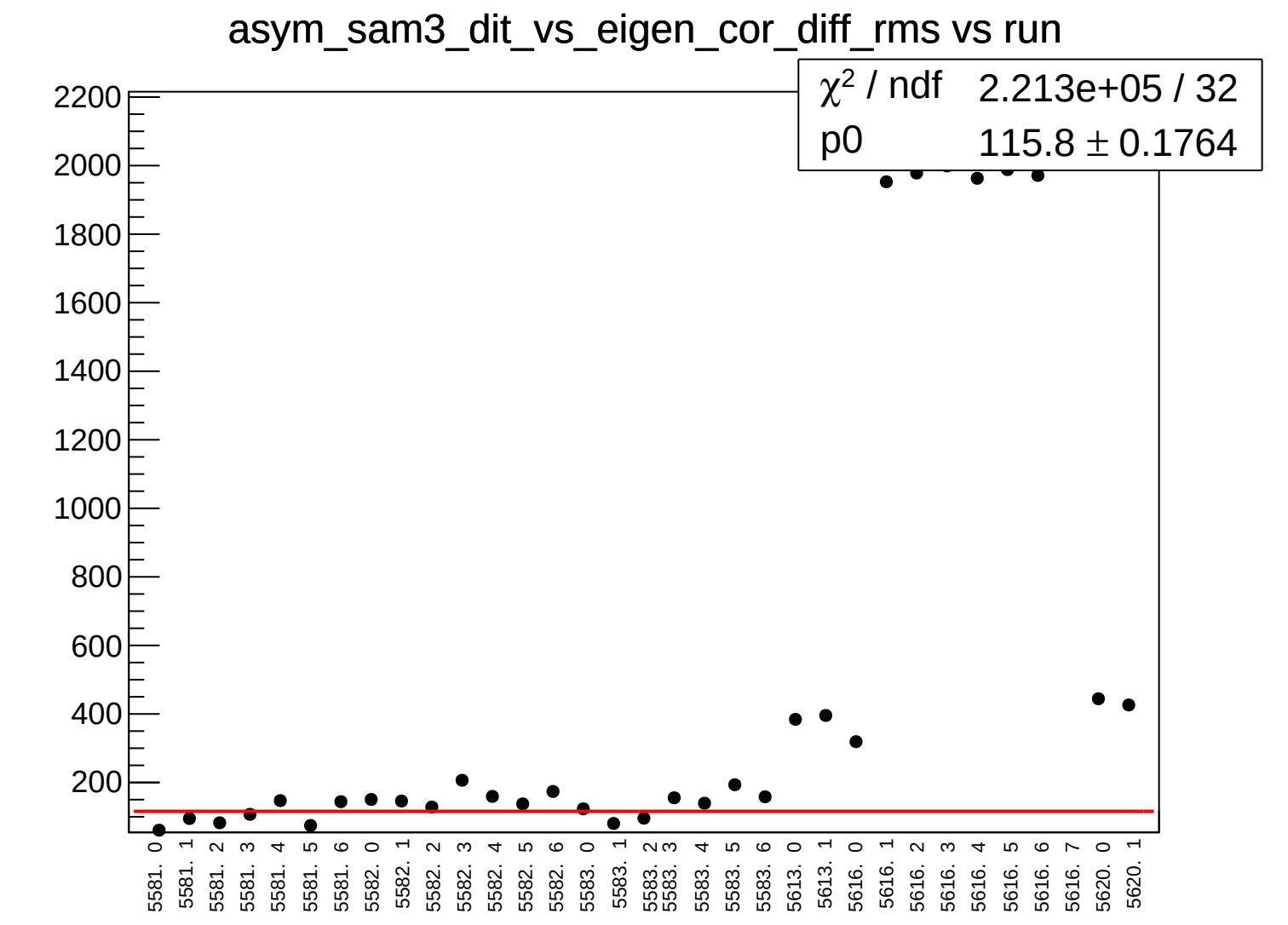

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 29.37 / 32
p0 3.826e−13 ± 2.211e−13
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.07512
Std Dev 0.9403
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

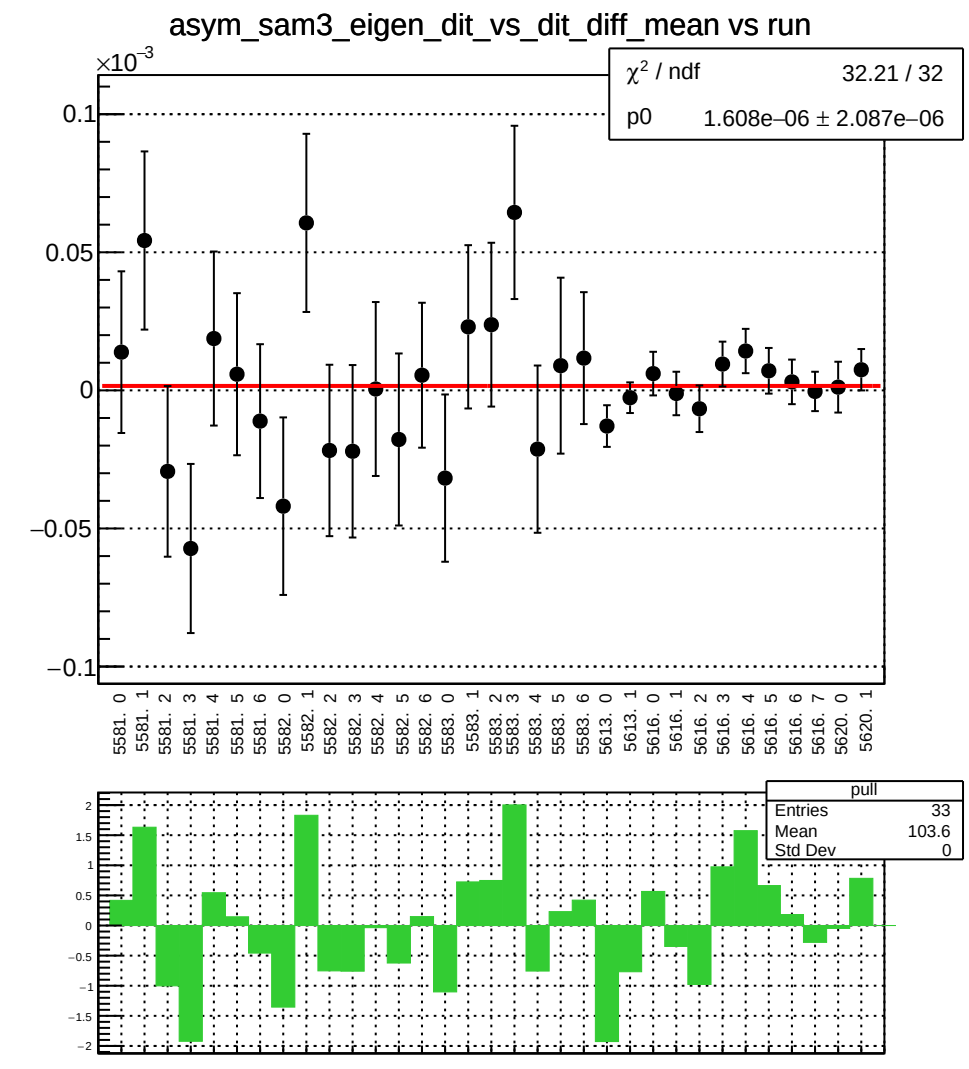

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 3.539e+05 / 32
p0 8.534e−11 ± 1.563e−13
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

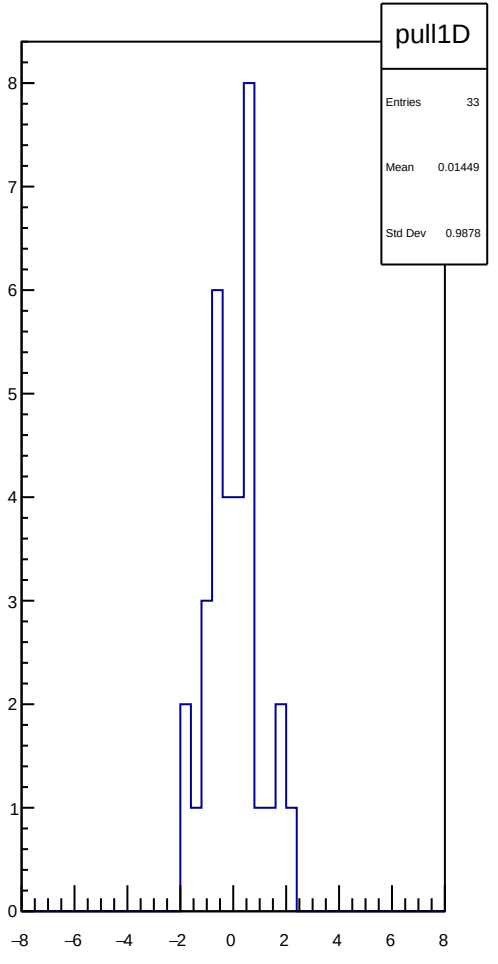

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 25.83 / 32
p0 0.1474 ± 0.2495
pull
Entries 33
Mean 12.93
Std Dev 8.36
pull1D
Entries 33
Mean −0.07777
Std Dev 0.8812

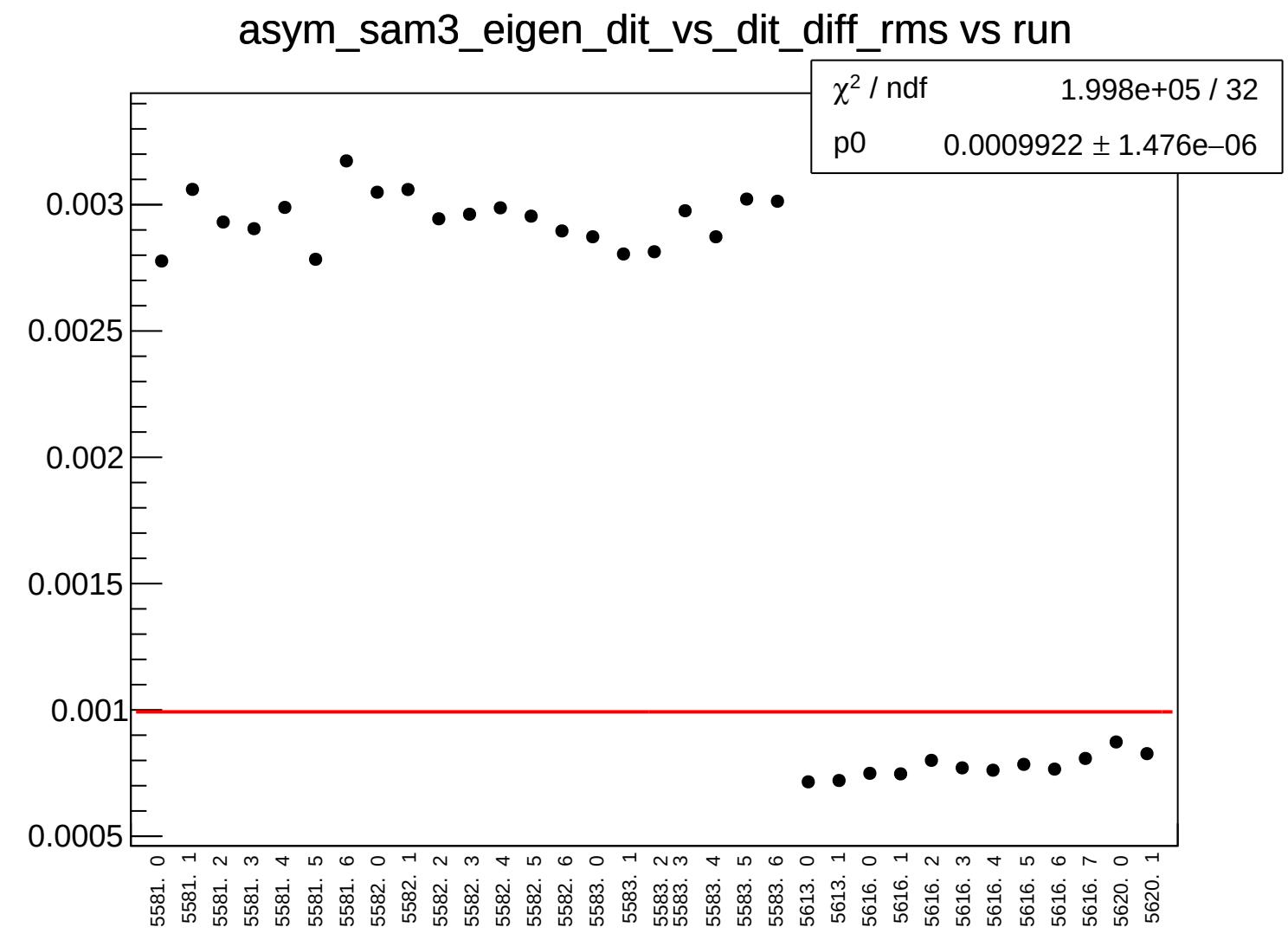

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 2.213e+05 / 32
p0 115.8 ± 0.1764
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

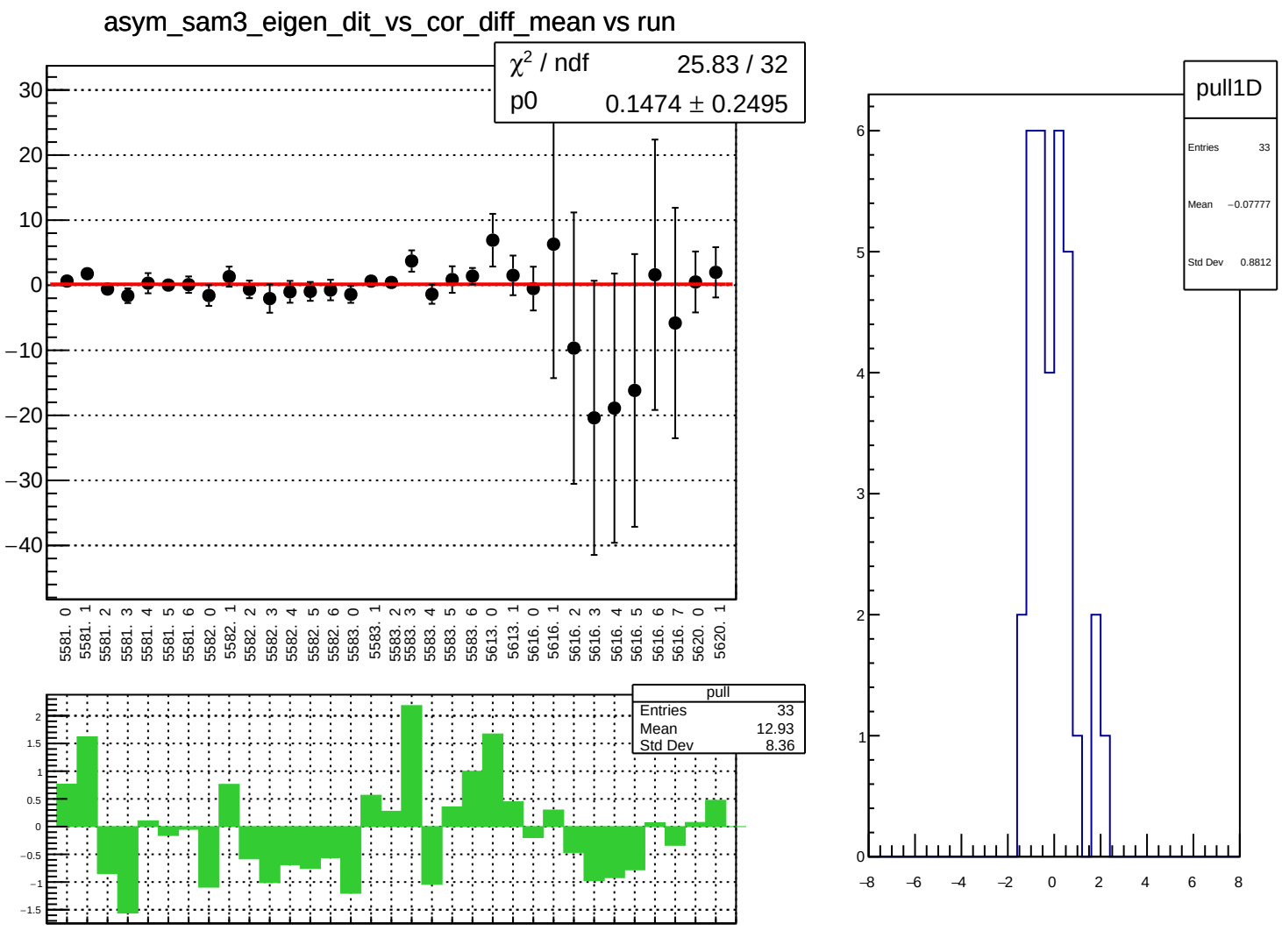

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.83 / 32
p0 0.1474 ± 0.2495
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 12.93
Std Dev 8.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.07777
Std Dev 0.8812
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

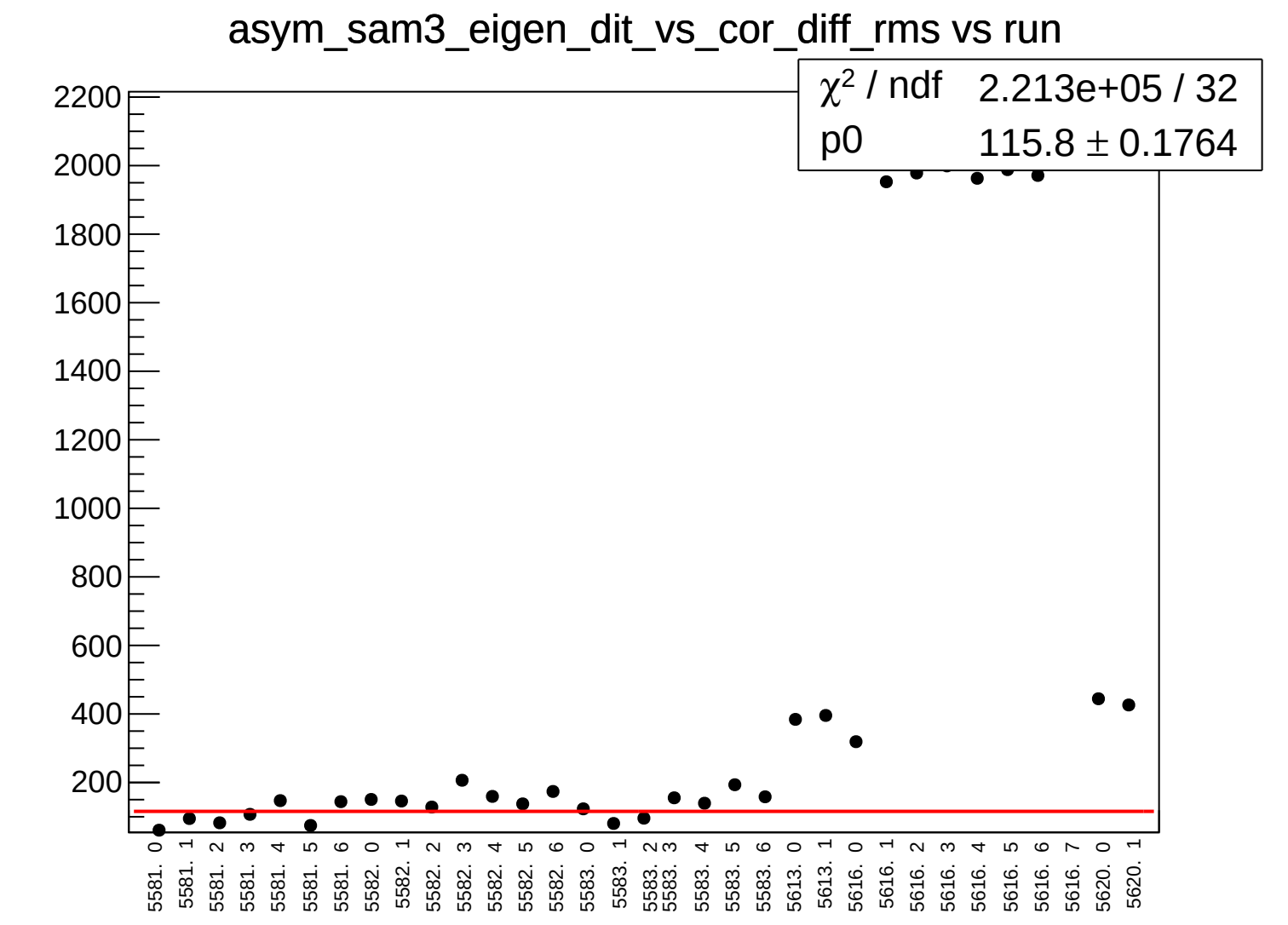

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.213e+05 / 32
p0 115.8 ± 0.1764
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

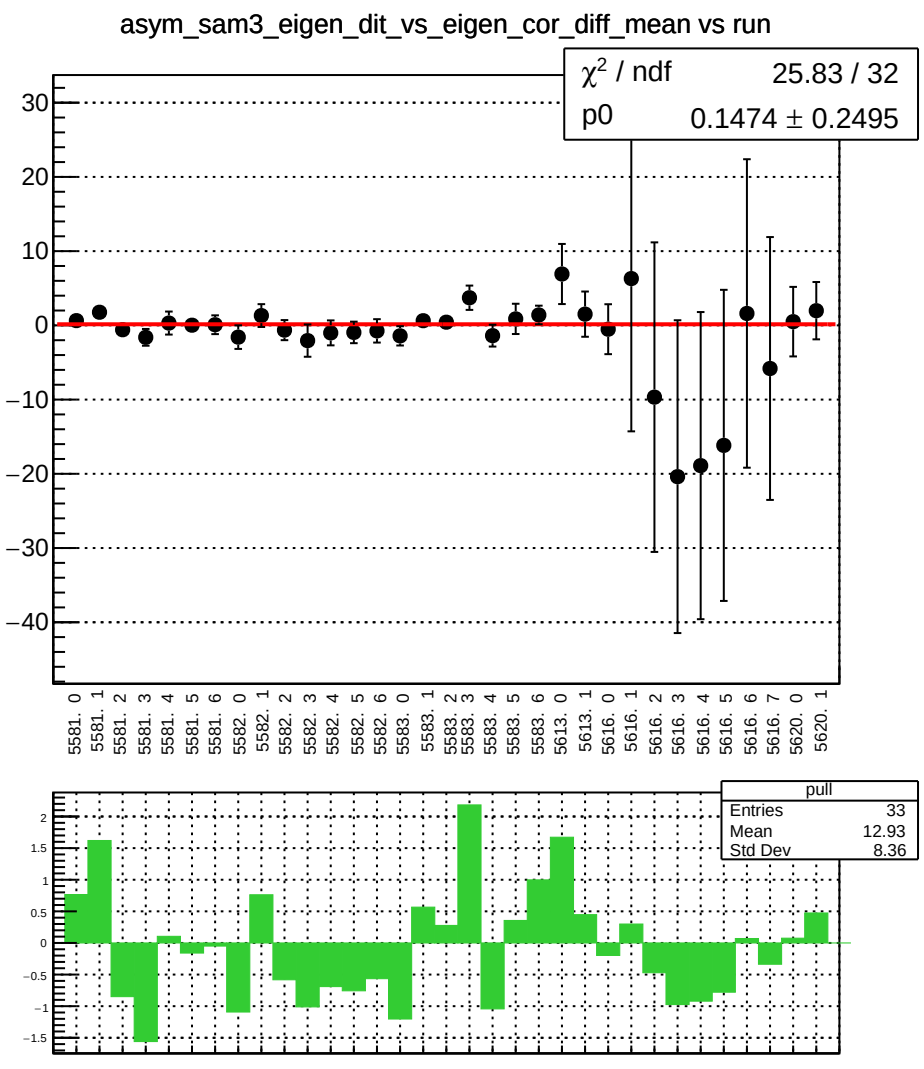

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.21 / 32
p0 1.608e−06 ± 2.087e−06
0.1
0.05
0
−0.05
−0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 103.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

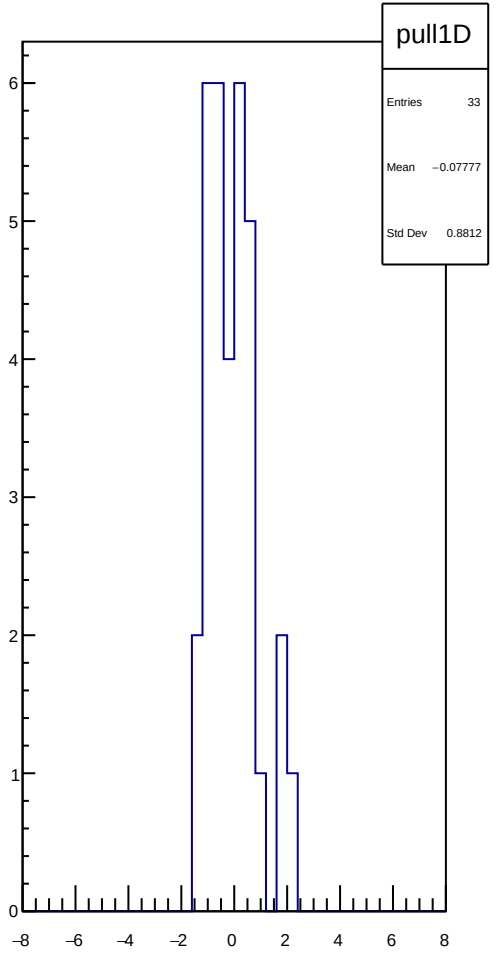

pull1D
Entries 33
Mean 0.01449
Std Dev 0.9878
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

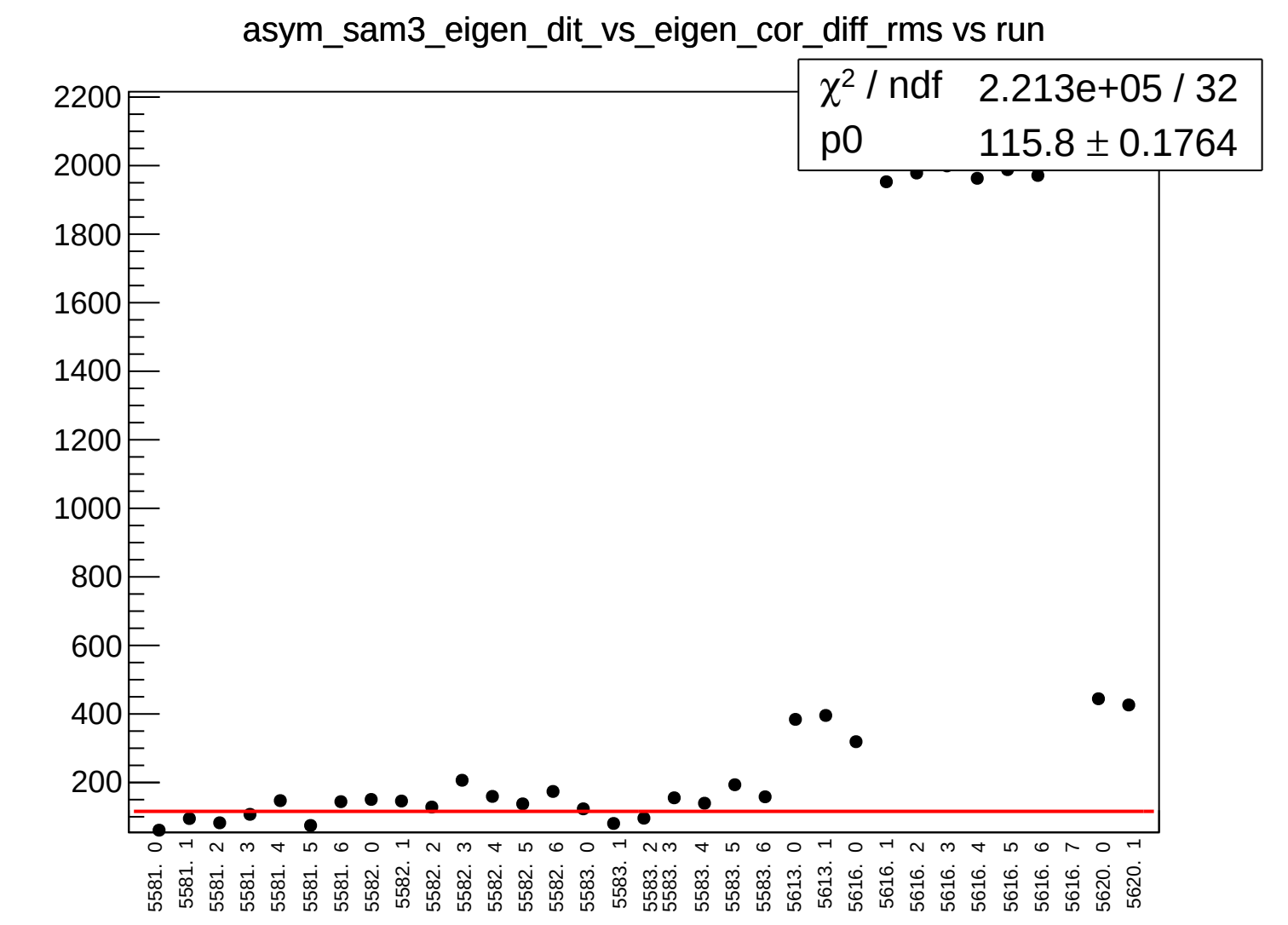

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.998e+05 / 32
p0 0.0009922 ± 1.476e−06
0.003
0.0025
0.002
0.0015
0.001
0.0005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

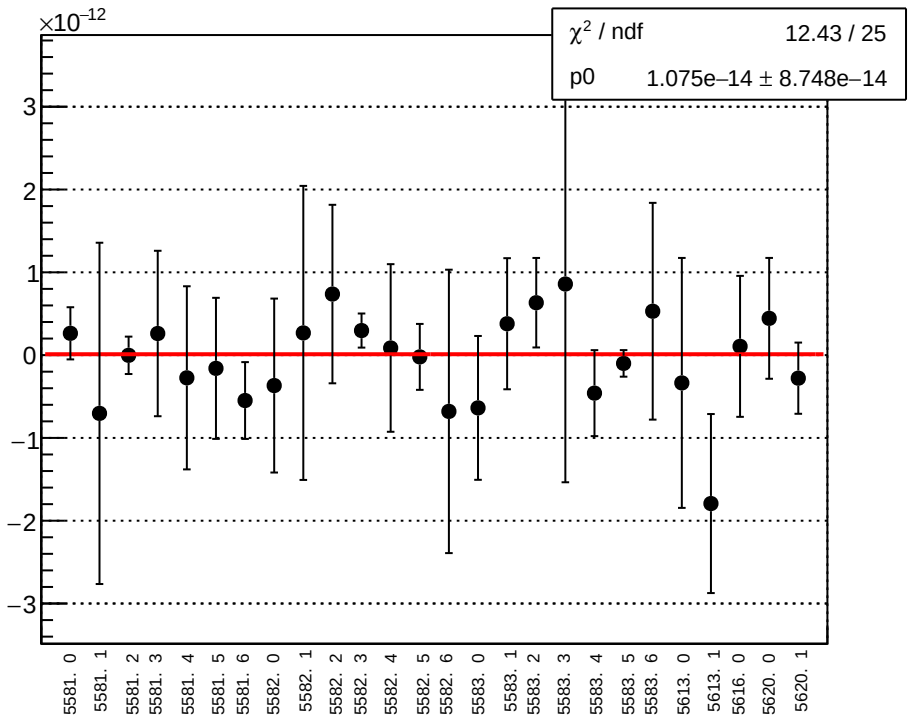

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.83 / 32
p0 0.1474 ± 0.2495
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 12.93
Std Dev 8.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.07777
Std Dev 0.8812
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

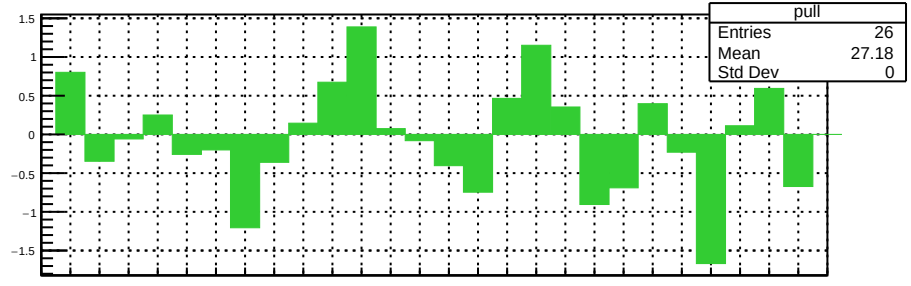

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.213e+05 / 32
p0 115.8 ± 0.1764
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

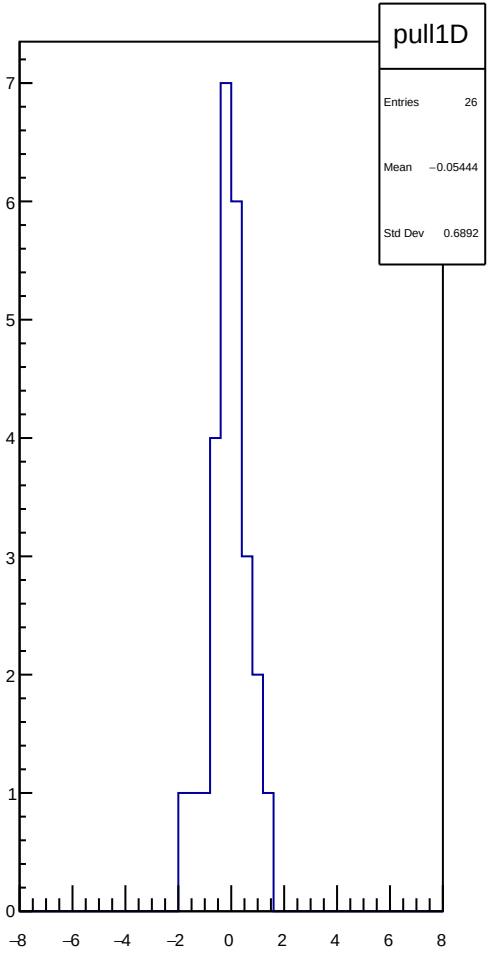

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.83 / 32
p0 0.1474 ± 0.2495
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 12.93
Std Dev 8.36
2
1.5
1
0.5
0
−0.5
−1
−1.5

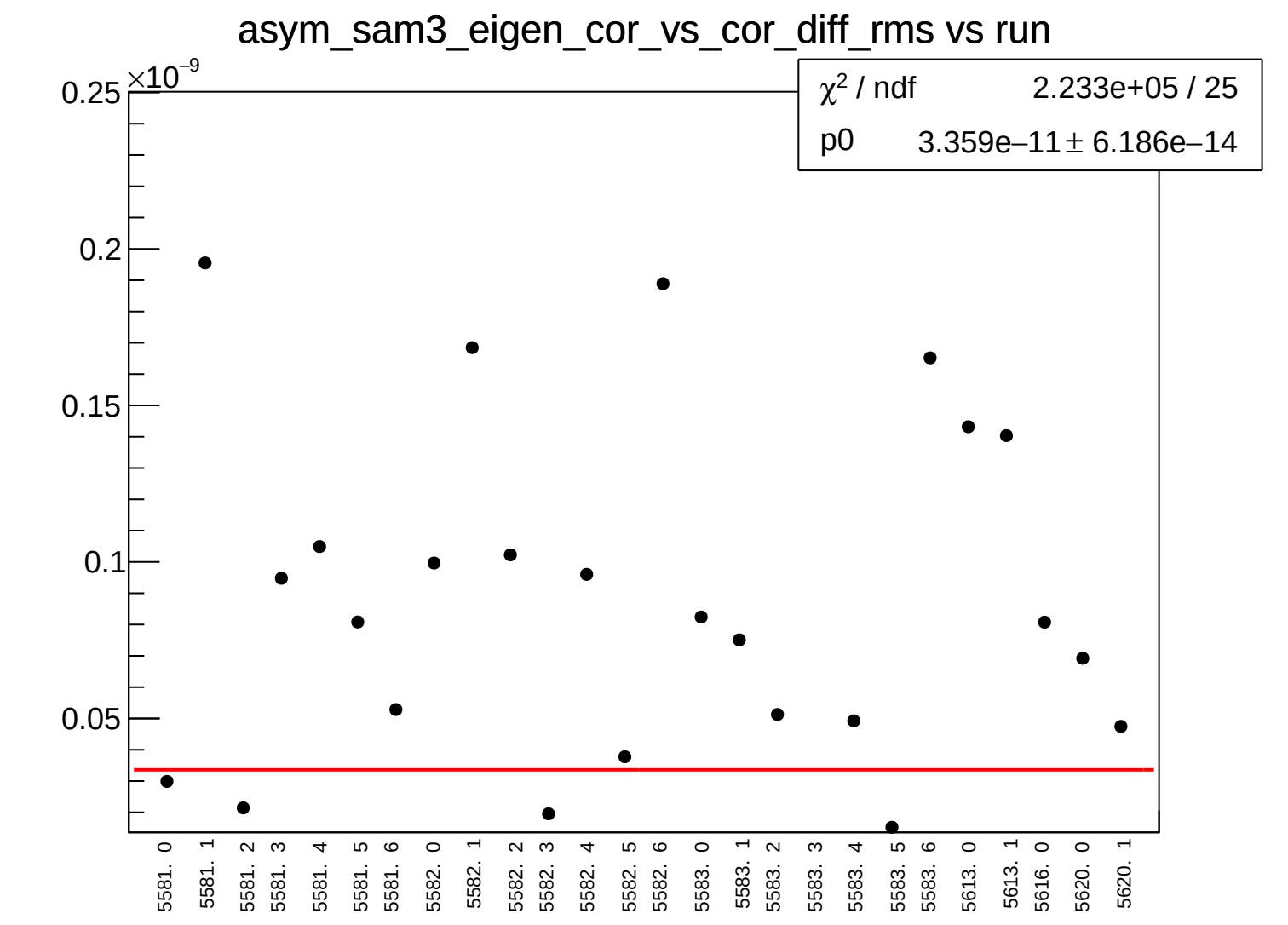

pull1D
Entries 33
Mean −0.07777
Std Dev 0.8812
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

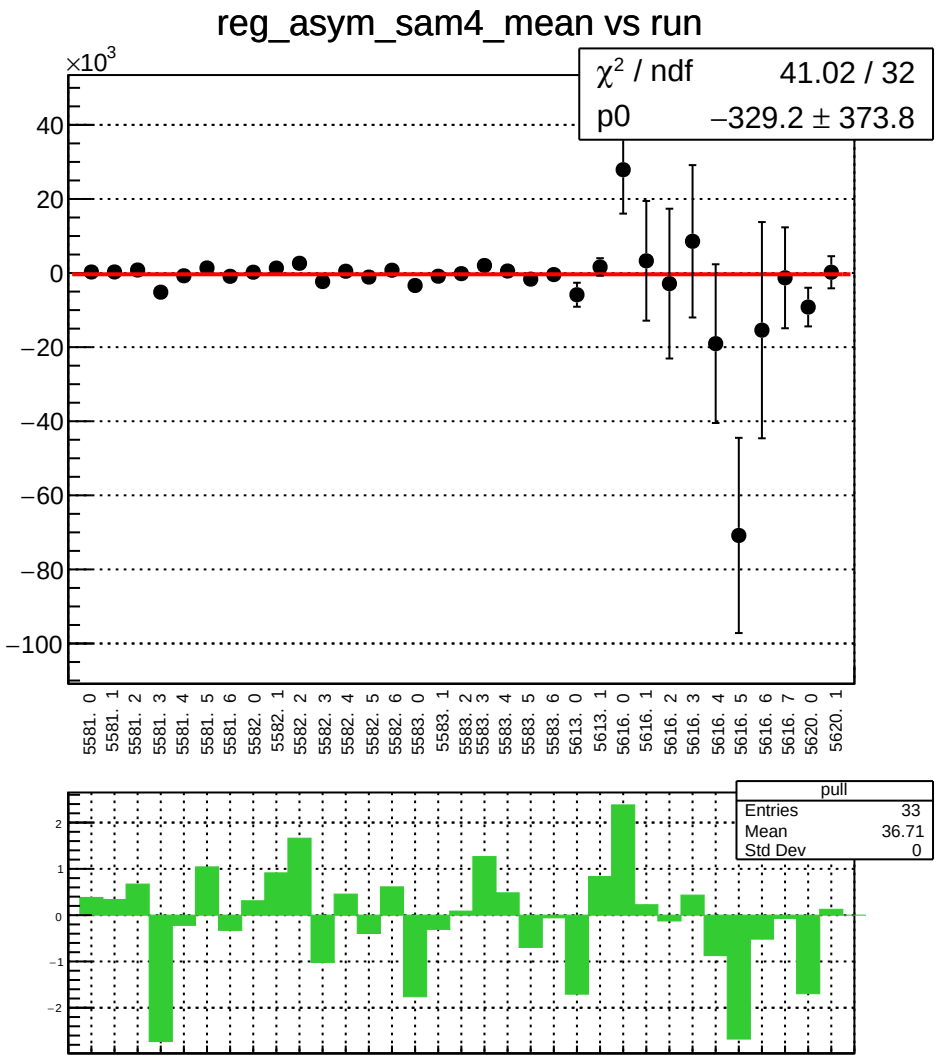

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.213e+05 / 32
p0 115.8 ± 0.1764
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

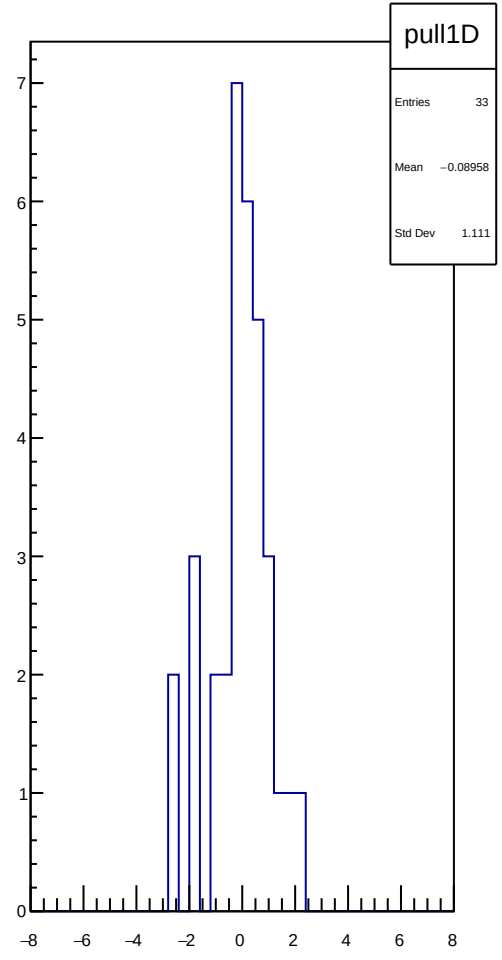

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 12.43 / 25
p0 1.075e−14 ± 8.748e−14
3
2
1
0
−1
−2
−3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

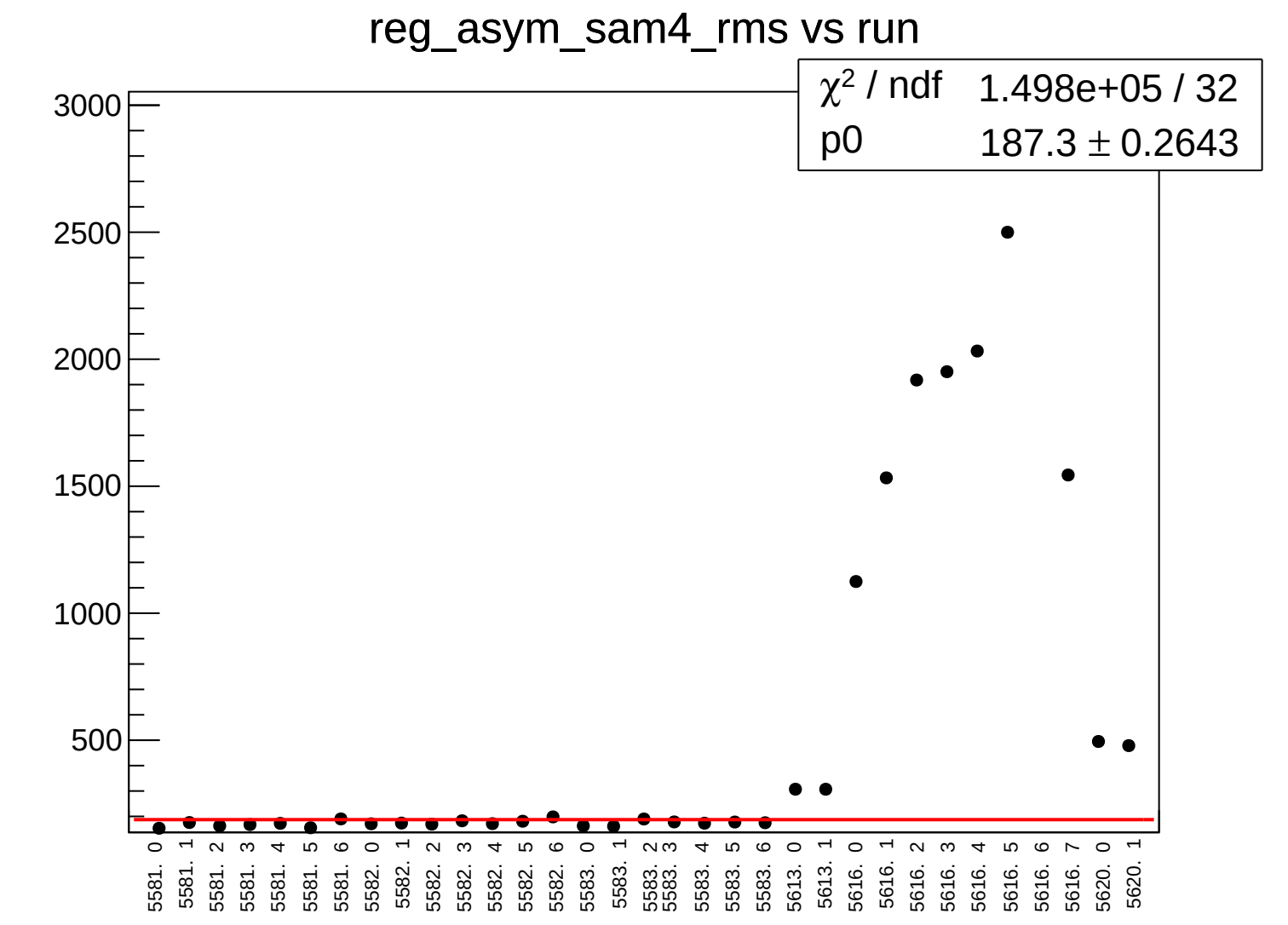

pull
Entries 26
Mean 27.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

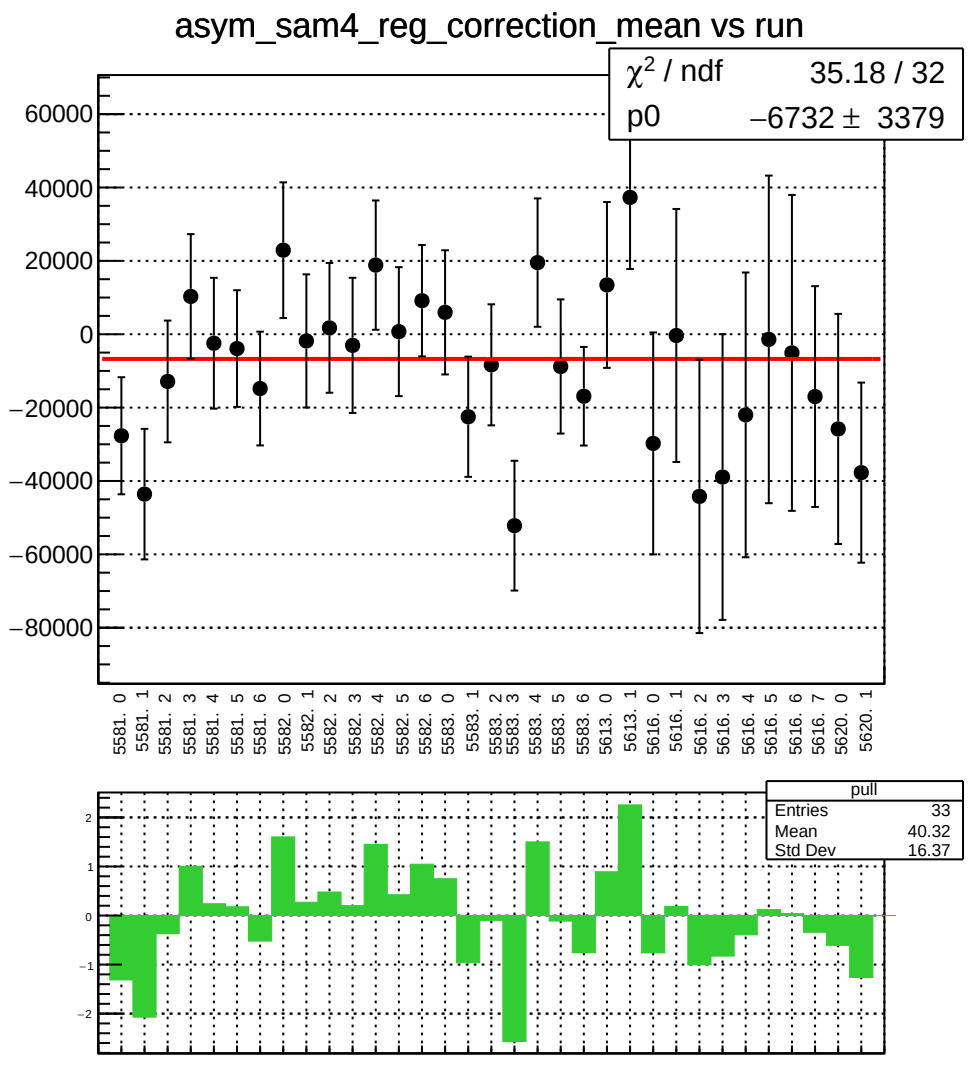

pull1D
Entries 26
Mean −0.05444
Std Dev 0.6892
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

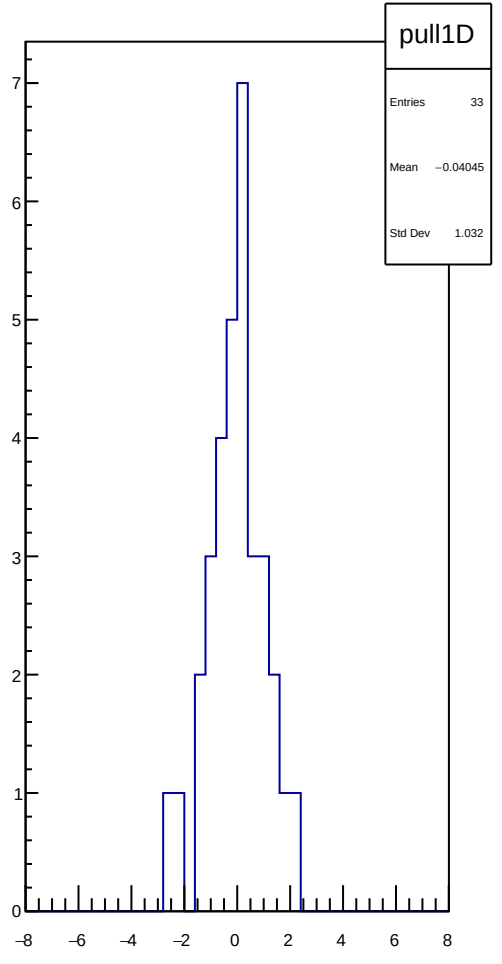

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.233e+05 / 25
p0 3.359e−11 ± 6.186e−14
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

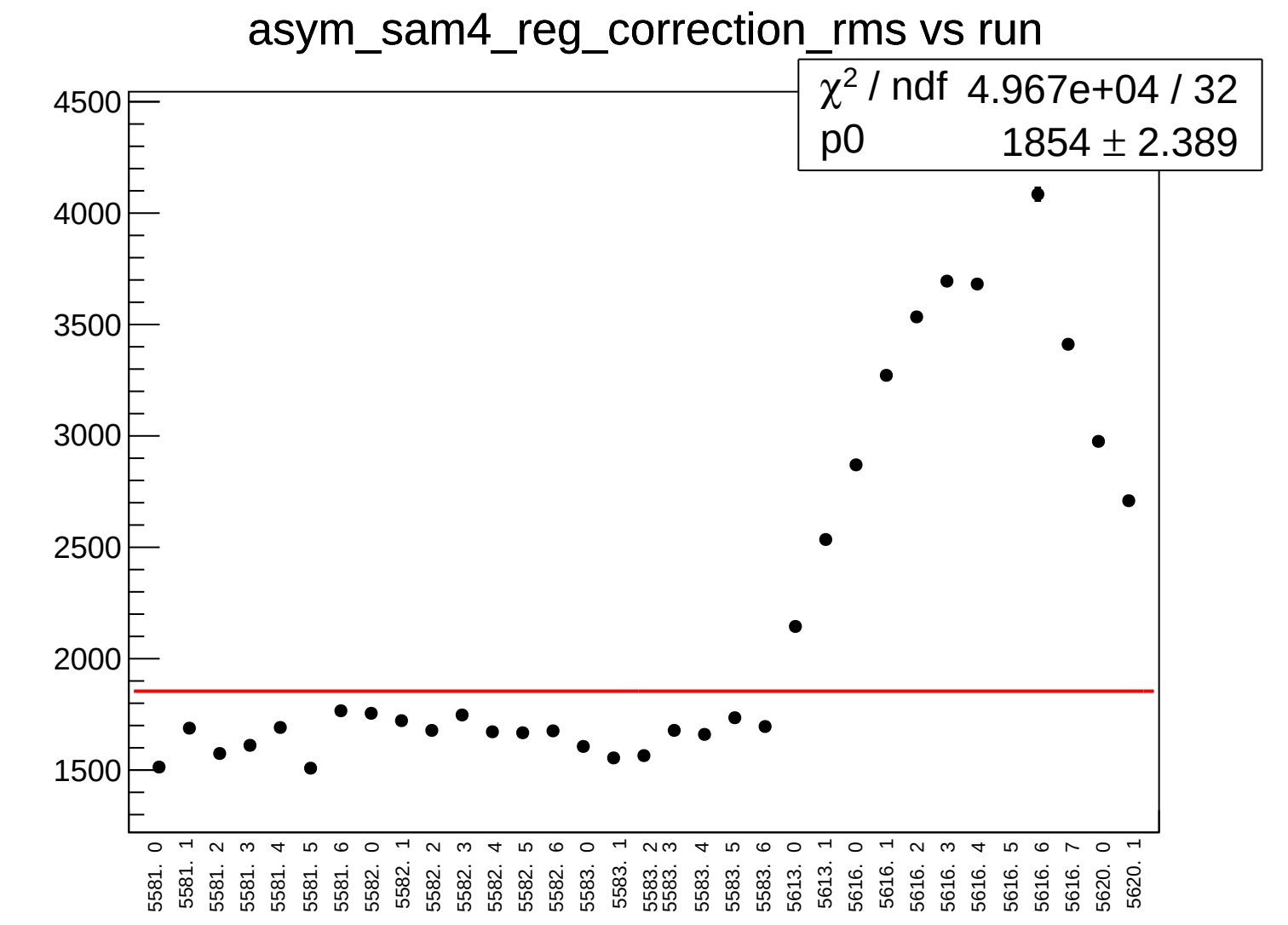

reg_asym_sam4_mean vs run
×10^3
χ² / ndf 41.02 / 32
p0 −329.2 ± 373.8
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.71
Std Dev 0
2
1
0
−1
−2

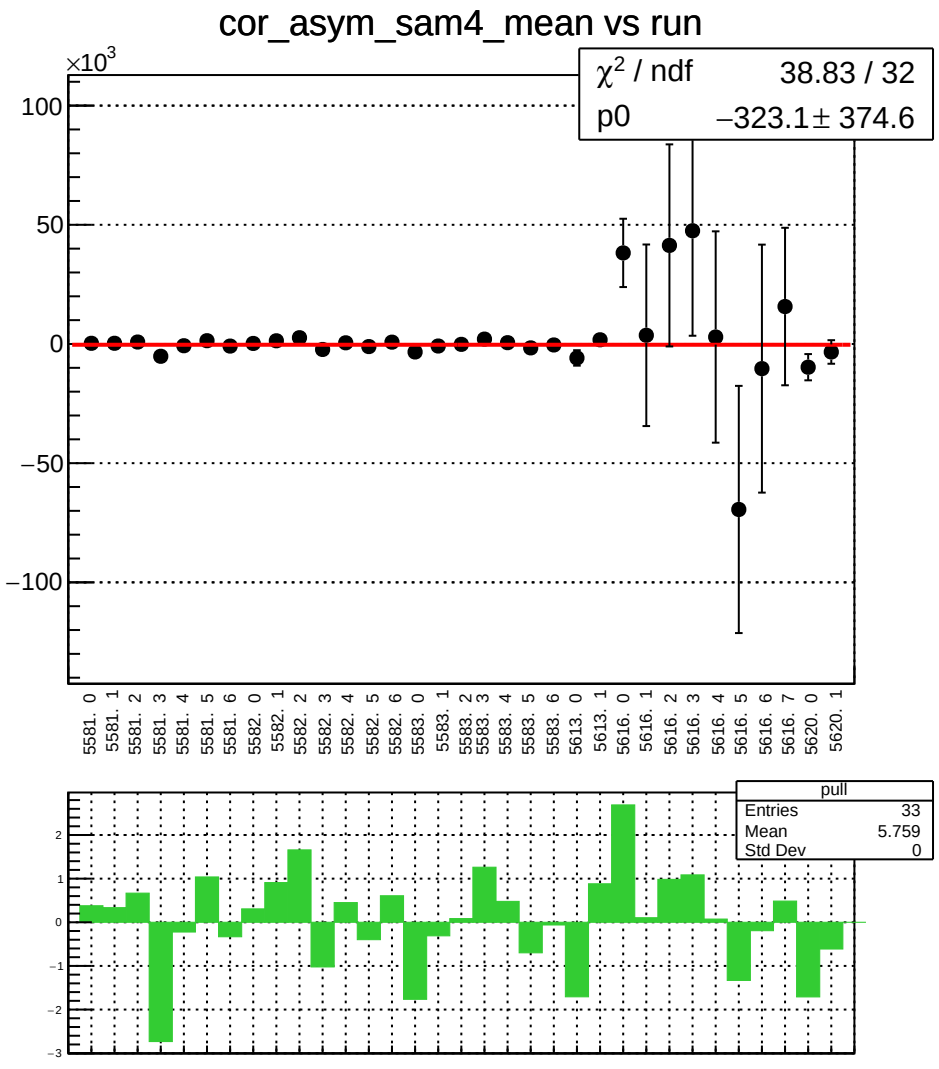

pull1D
Entries 33
Mean −0.08958
Std Dev 1.111
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

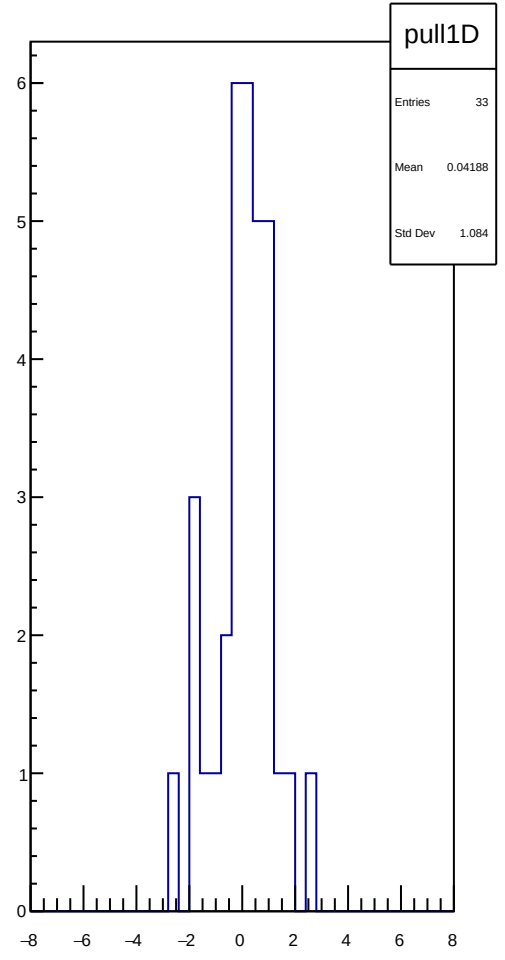

reg_asym_sam4_rms vs run
χ² / ndf 1.498e+05 / 32
p0 187.3 ± 0.2643
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

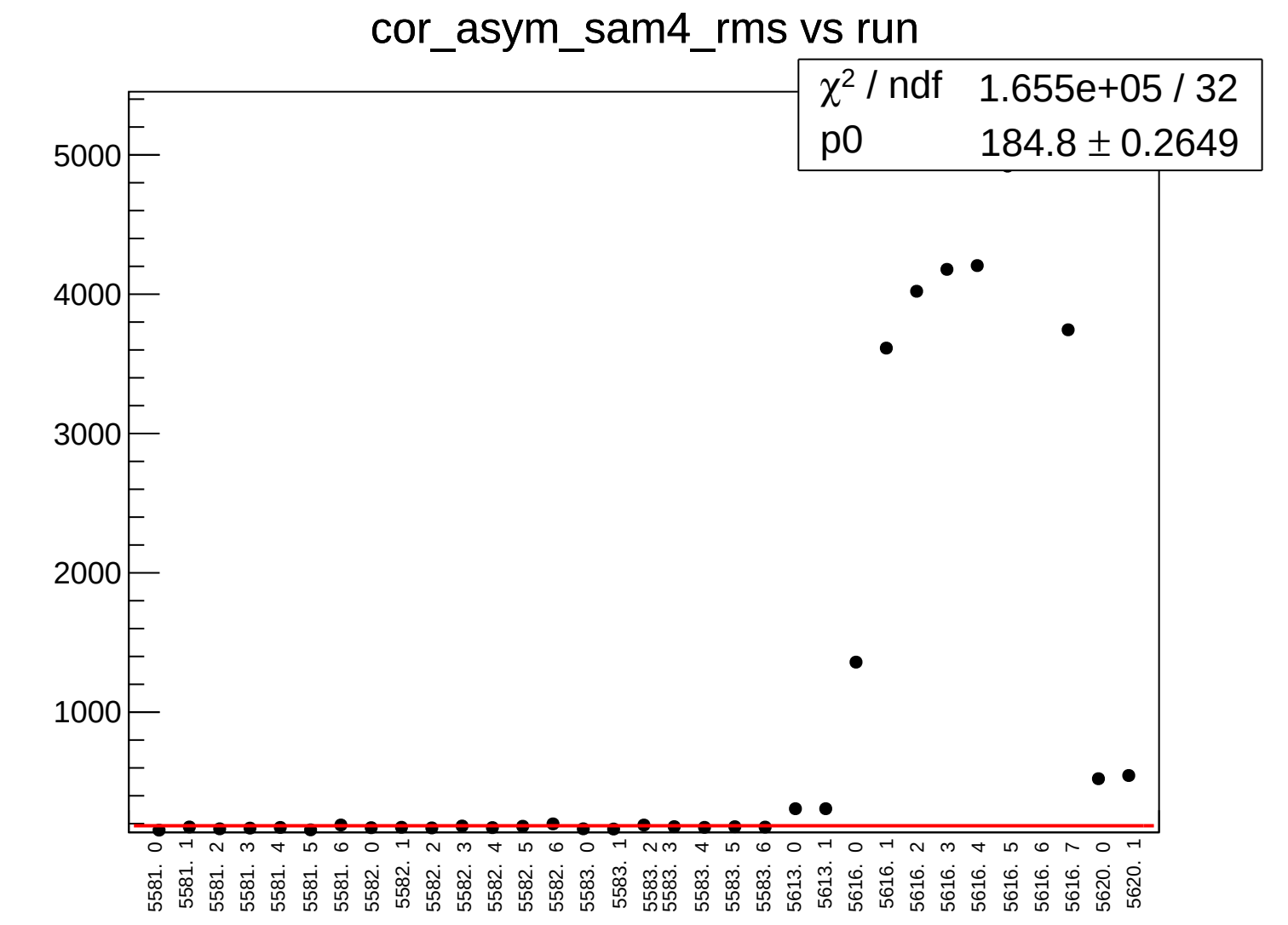

asym_sam4_reg_correction_mean vs run
χ² / ndf 35.18 / 32
p0 −6732 ± 3379
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.32
Std Dev 16.37
2
1
0
−1
−2

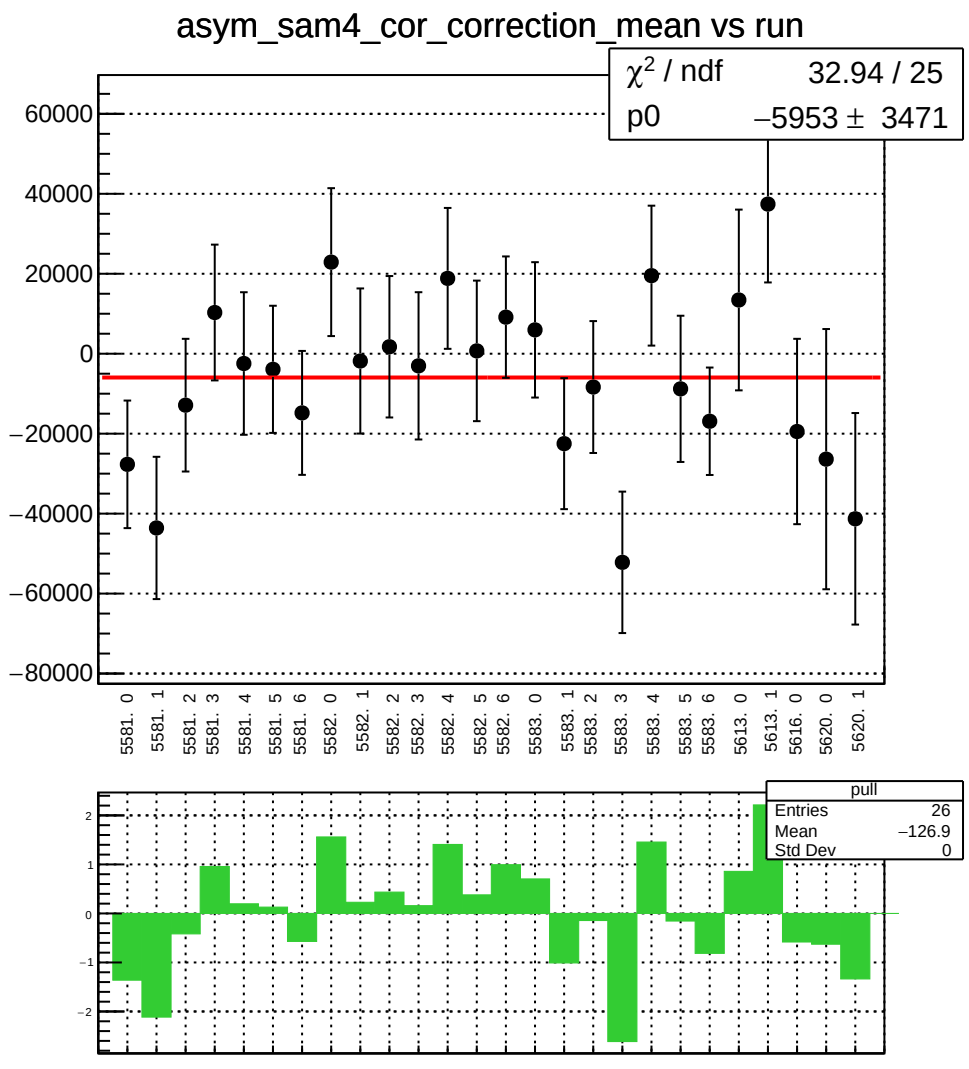

pull1D
Entries 33
Mean −0.04045
Std Dev 1.032
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

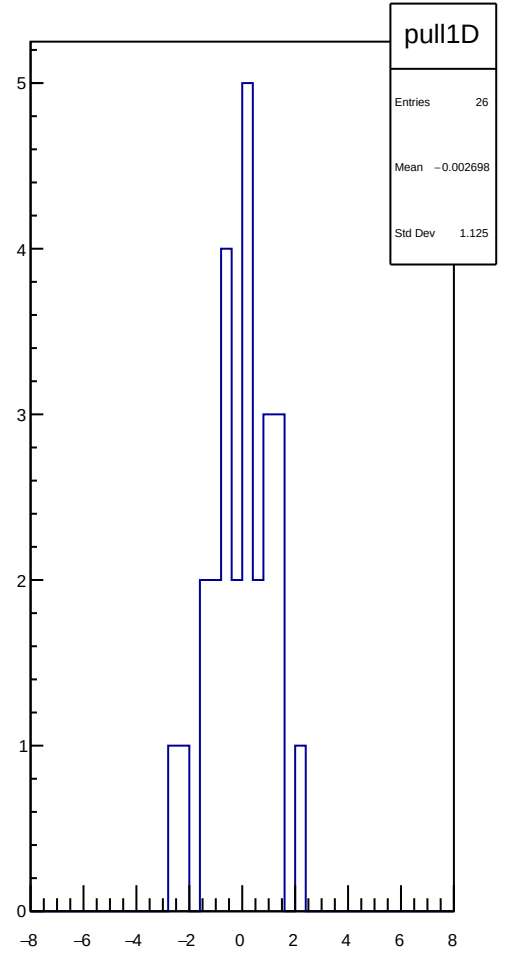

asym_sam4_reg_correction_rms vs run
χ² / ndf 4.967e+04 / 32
p0 1854 ± 2.389
4500
4000
3500
3000
2500
2000
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

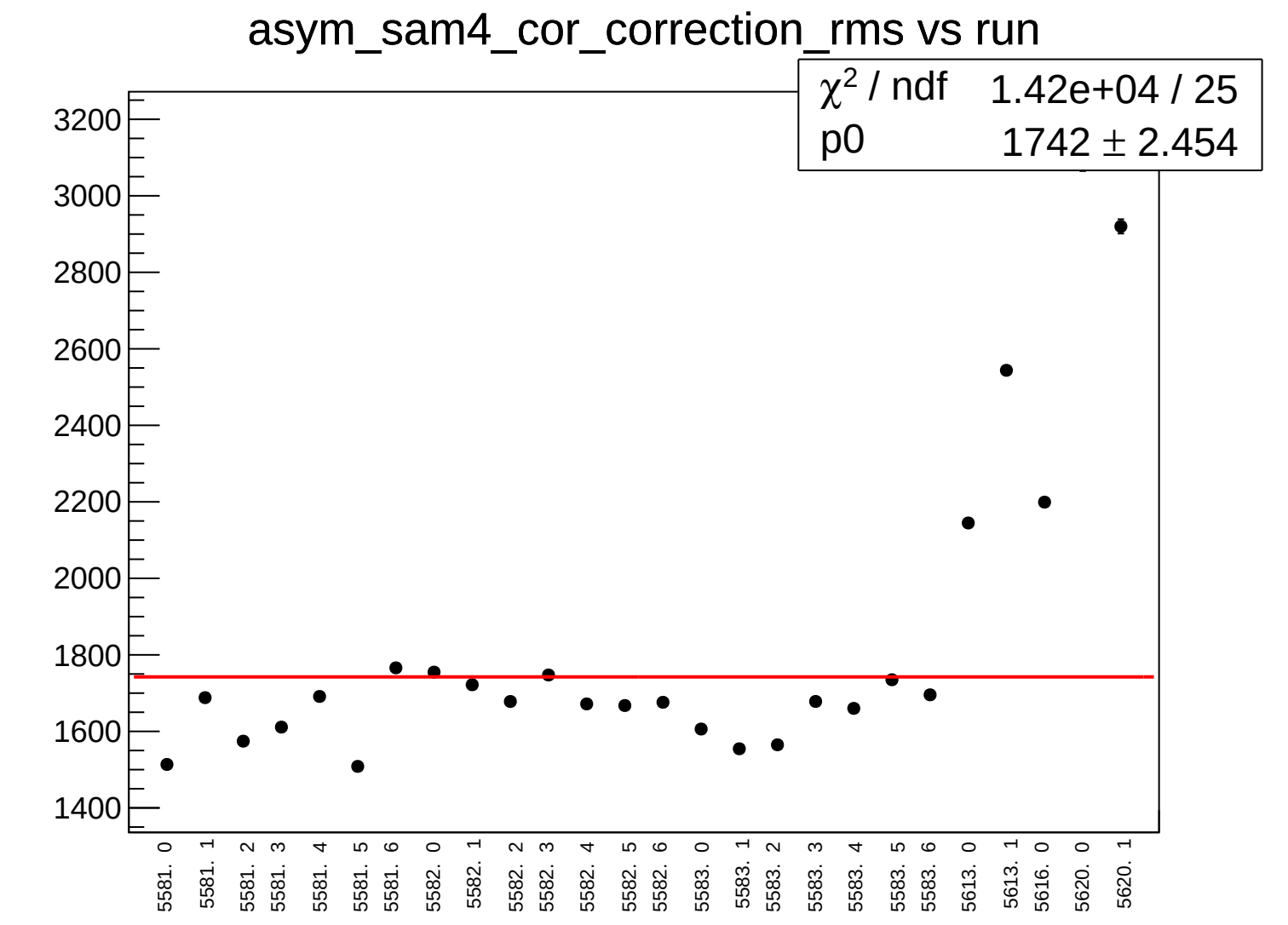

cor_asym_sam4_mean vs run
×10^3
χ^2 / ndf 38.83 / 32
p0 −323.1± 374.6
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5.759
Std Dev 0
2
1
0
−1
−2
−3

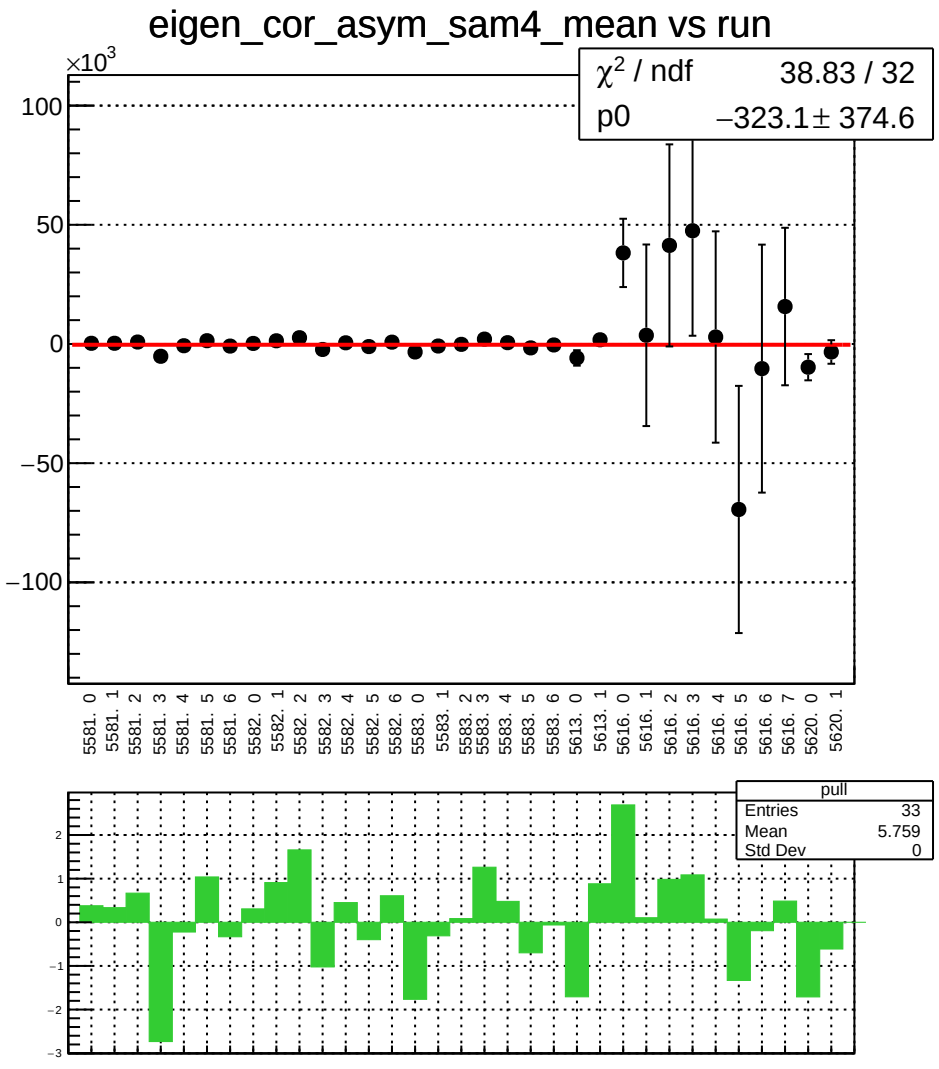

pull1D
Entries 33
Mean 0.04188
Std Dev 1.084
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

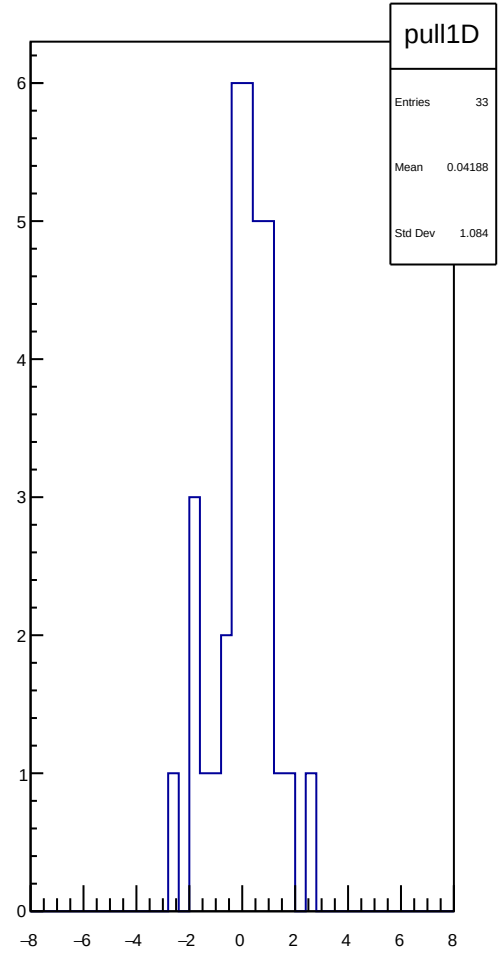

cor_asym_sam4_rms vs run
χ² / ndf 1.655e+05 / 32
p0 184.8 ± 0.2649
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

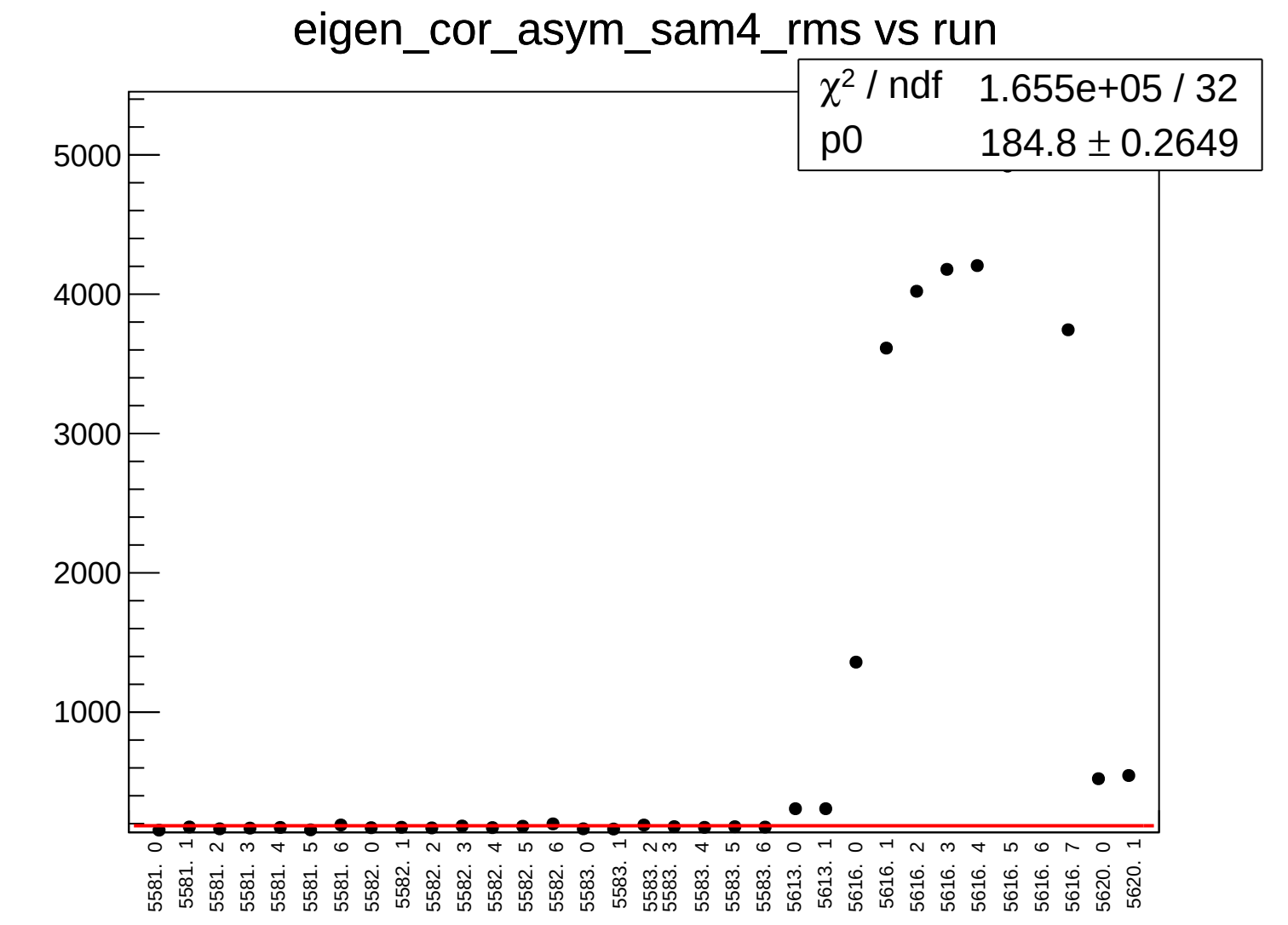

asym_sam4_cor_correction_mean vs run
χ² / ndf 32.94 / 25
p0 −5953 ± 3471
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −126.9
Std Dev 0
2
1
0
−1
−2

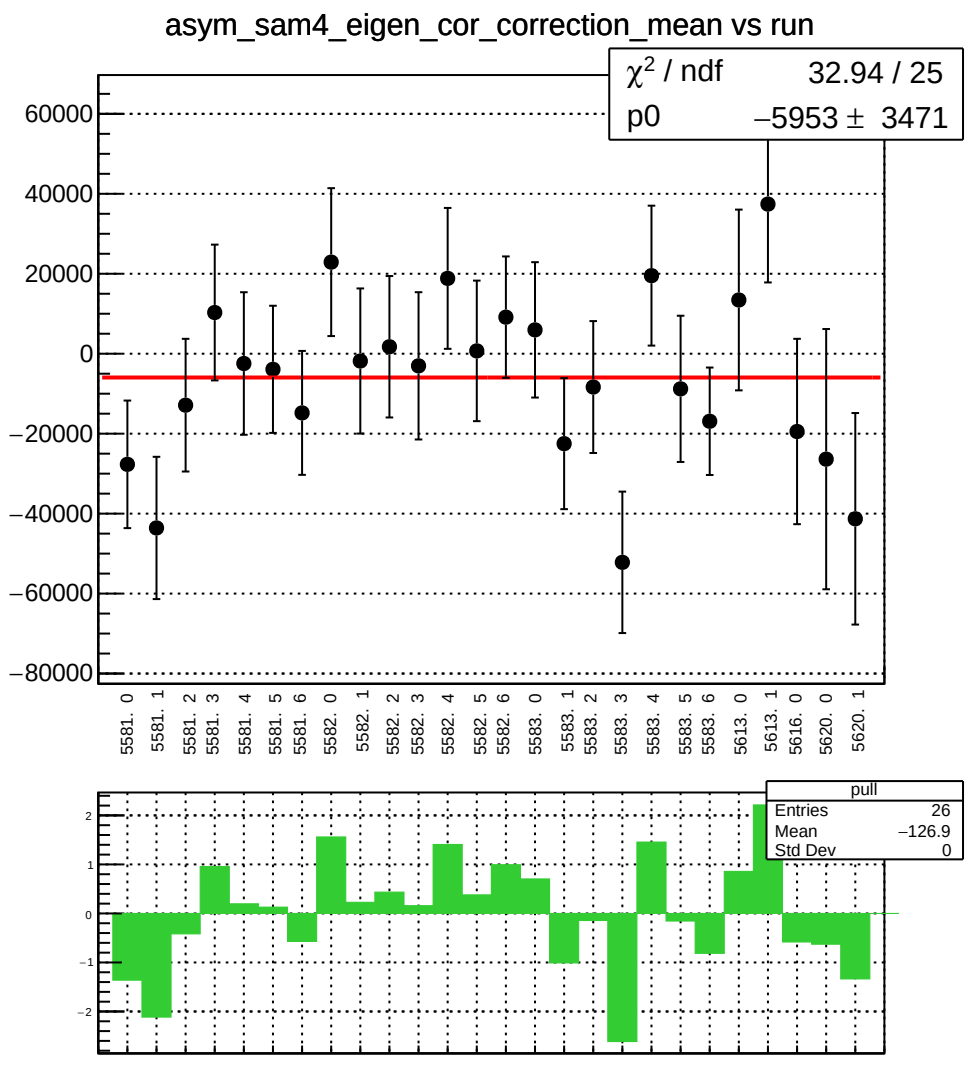

pull1D
Entries 26
Mean −0.002698
Std Dev 1.125
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

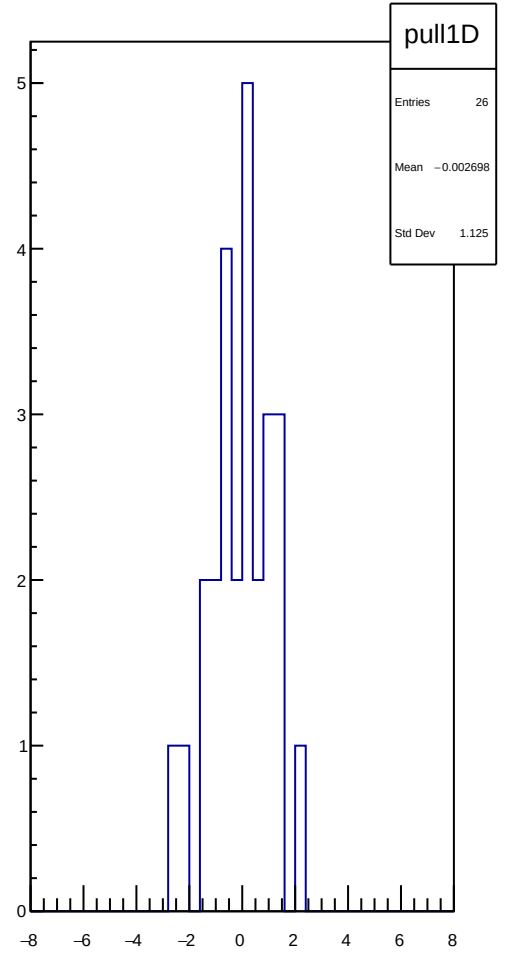

asym_sam4_cor_correction_rms vs run
χ² / ndf 1.42e+04 / 25
p0 1742 ± 2.454
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

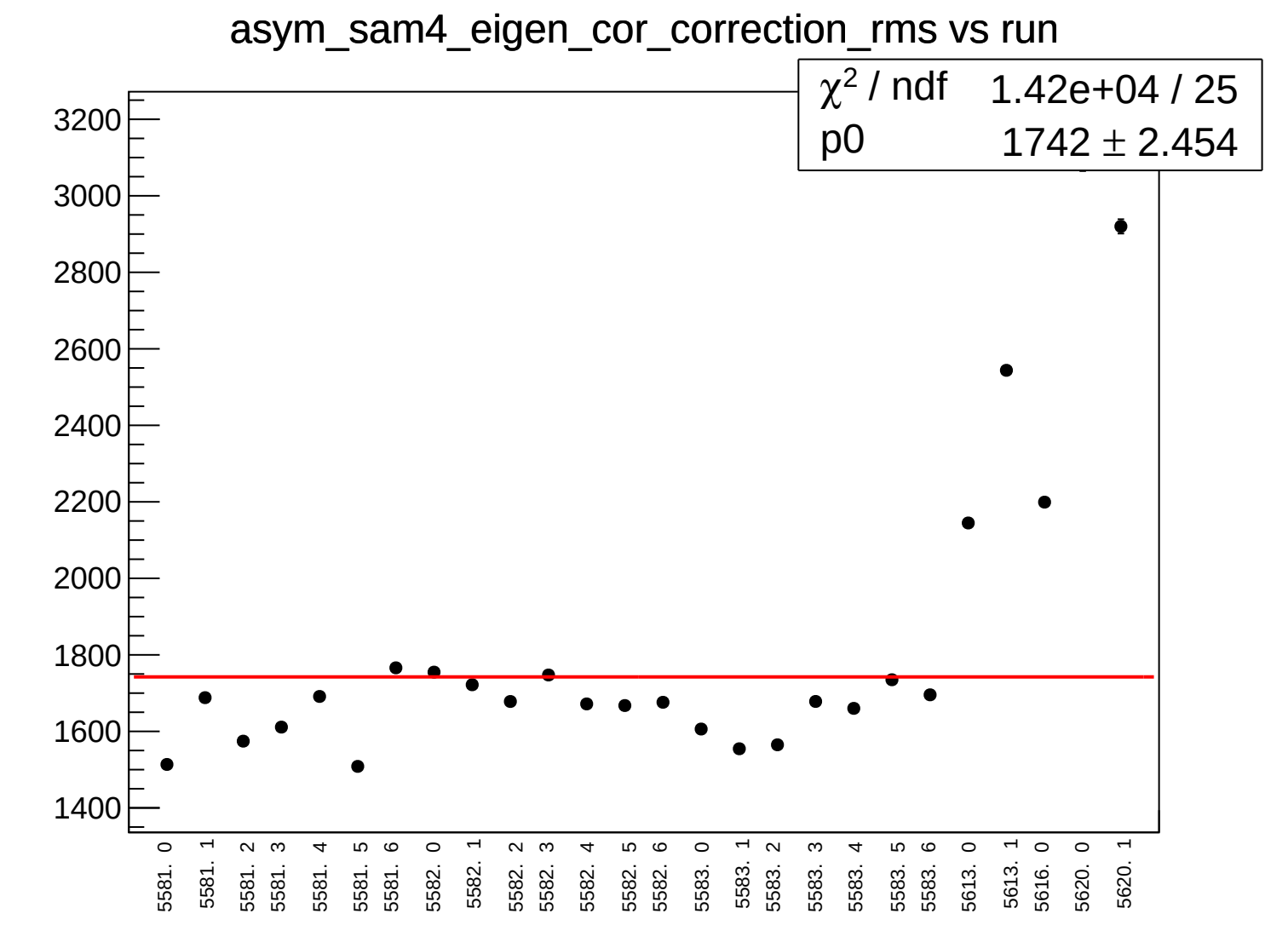

eigen_cor_asym_sam4_mean vs run
×10^3
χ^2 / ndf 38.83 / 32
p0 −323.1± 374.6
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5.759
Std Dev 0
2
1
0
−1
−2
−3

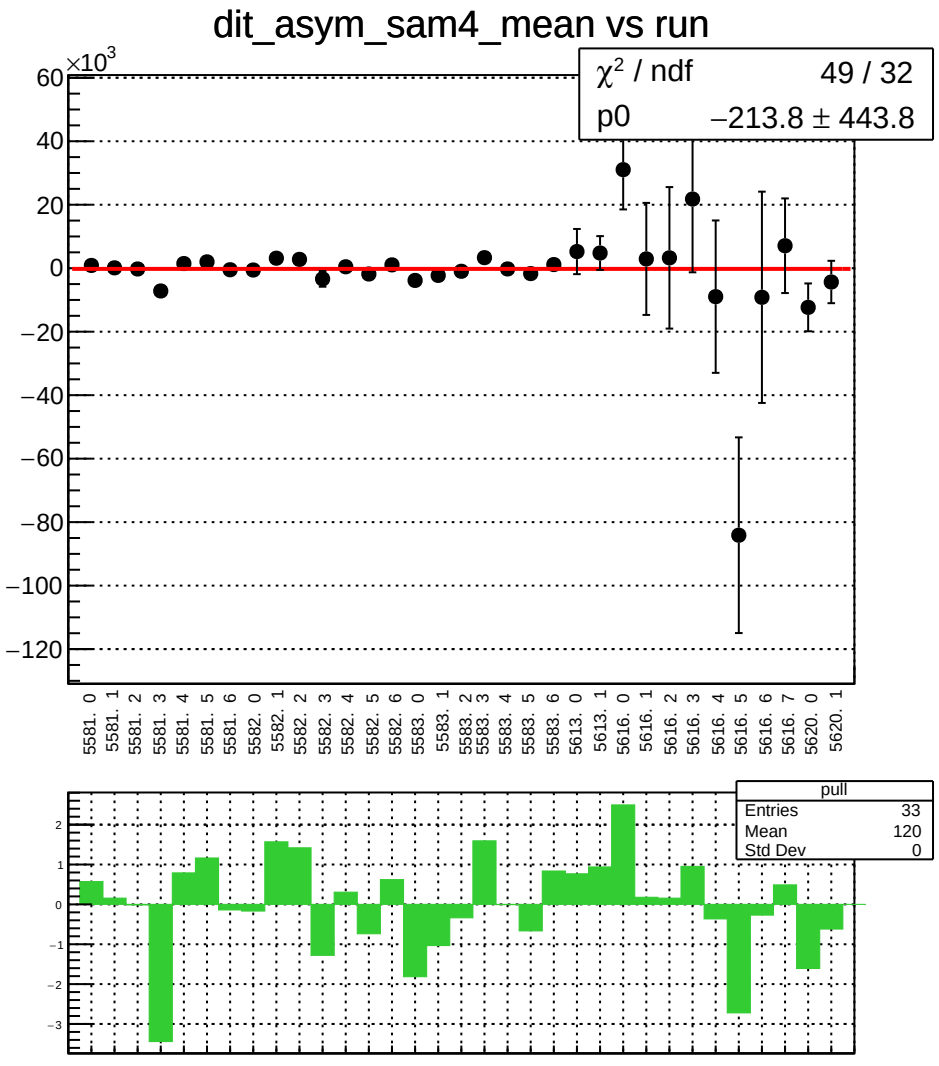

pull1D
Entries 33
Mean 0.04188
Std Dev 1.084
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

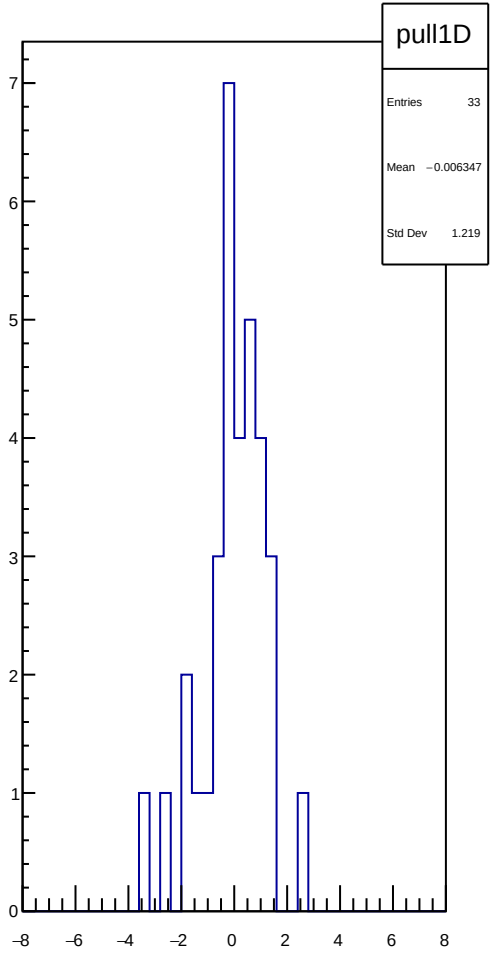

eigen_cor_asym_sam4_rms vs run
χ² / ndf 1.655e+05 / 32
p0 184.8 ± 0.2649
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

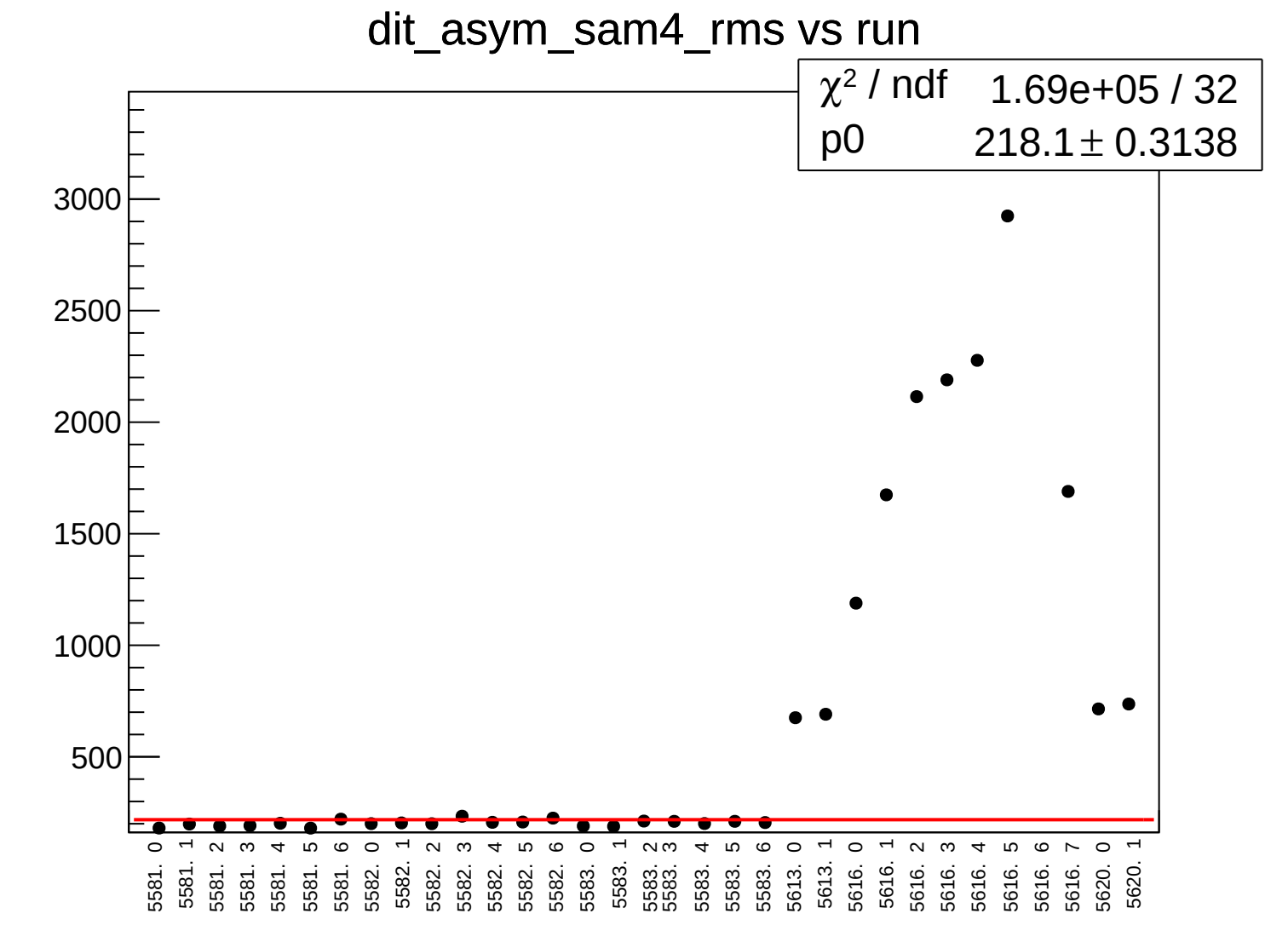

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 32.94 / 25
p0 −5953 ± 3471
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −126.9
Std Dev 0
2
1
0
−1
−2

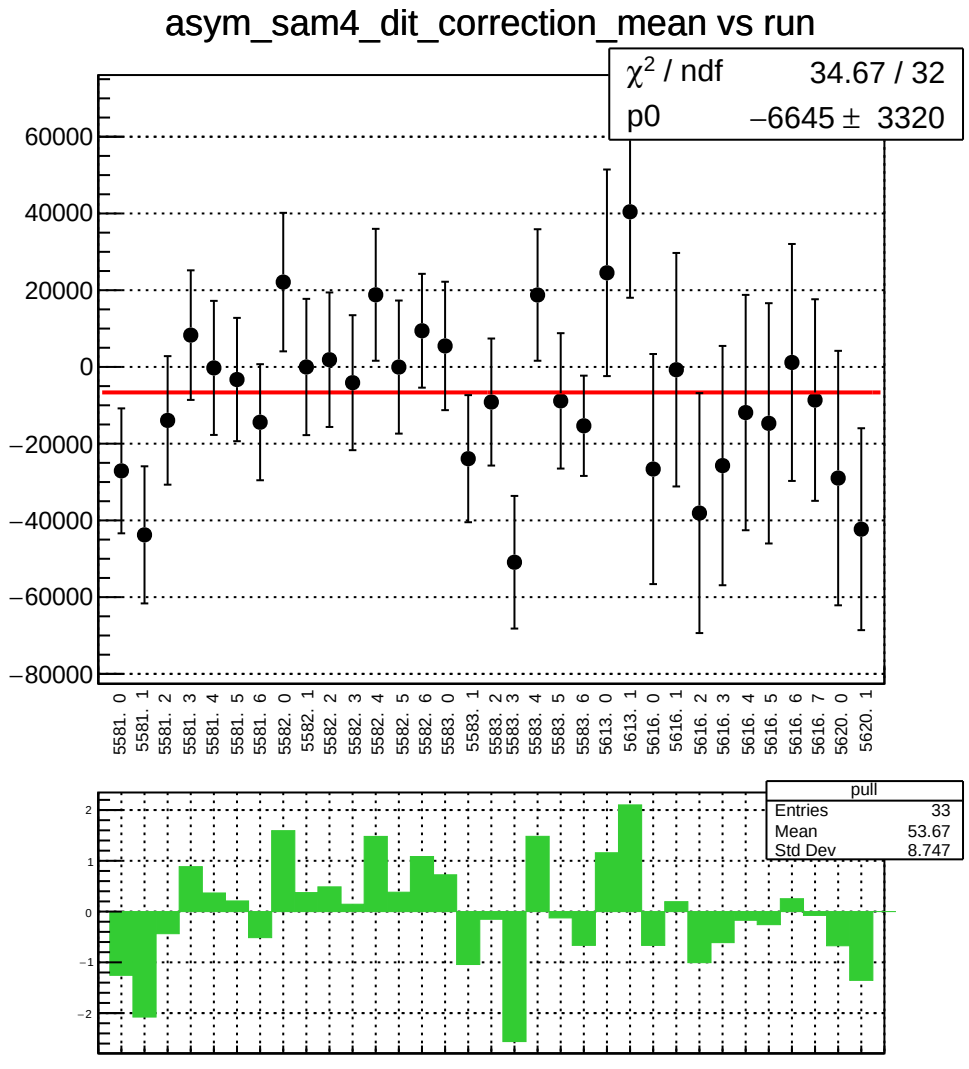

pull1D
Entries 26
Mean −0.002698
Std Dev 1.125
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

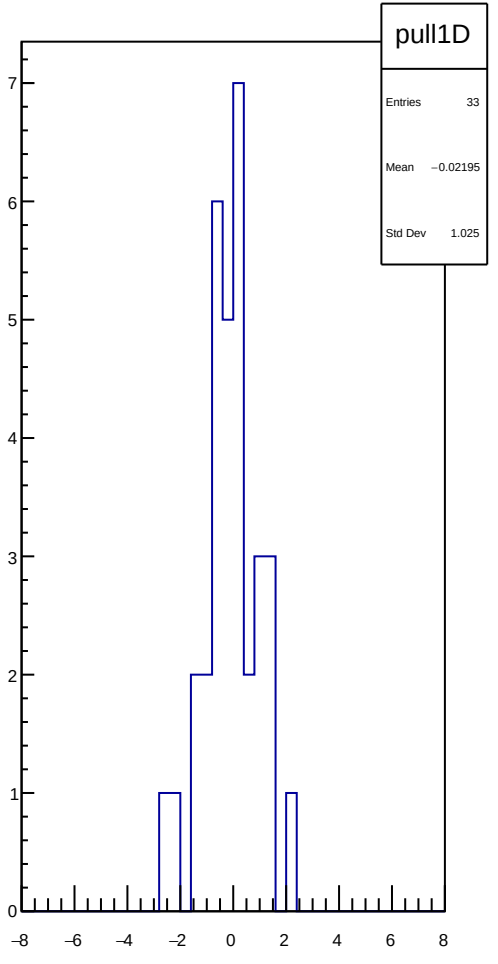

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 1.42e+04 / 25
p0 1742 ± 2.454
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

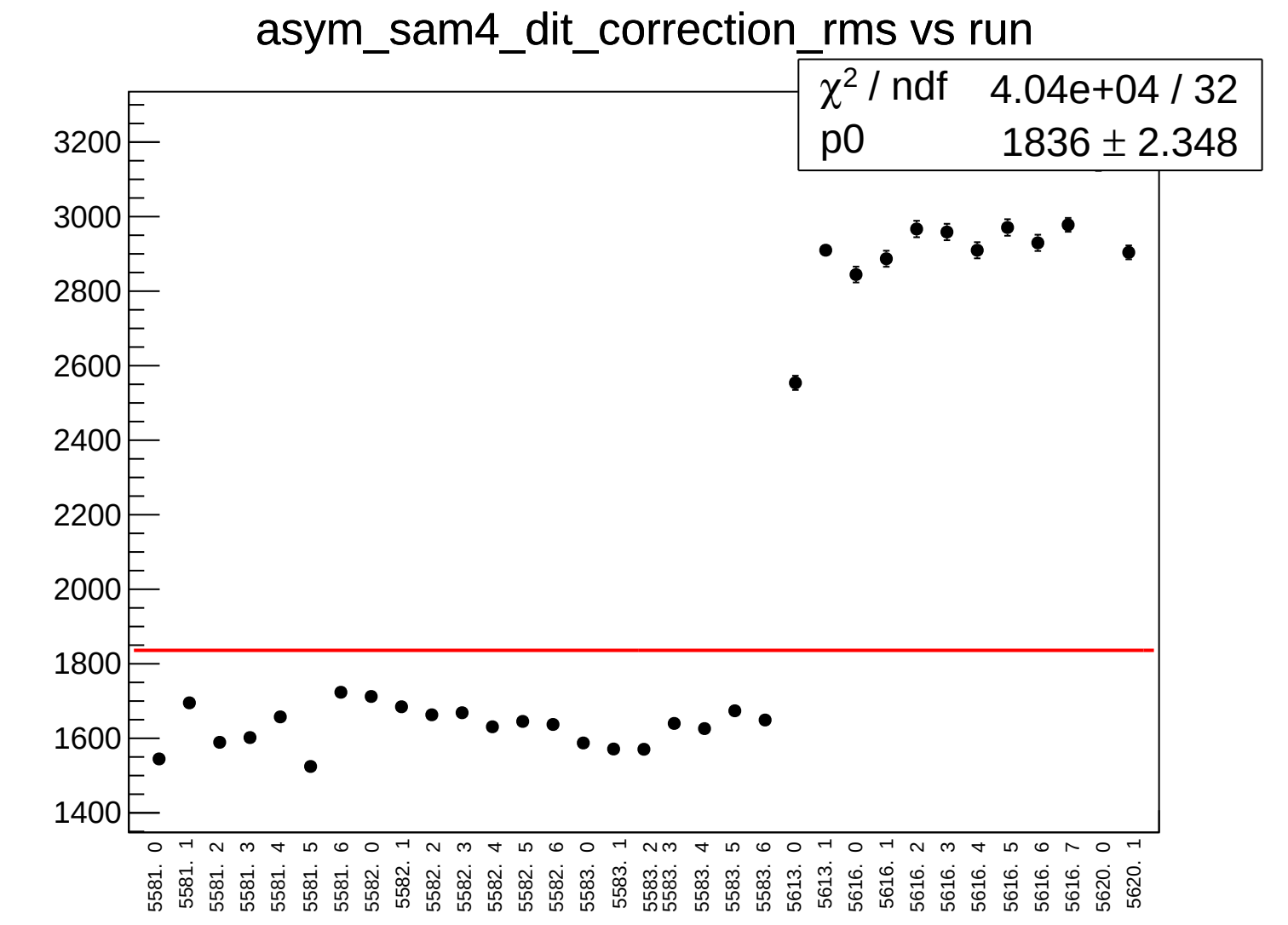

dit_asym_sam4_mean vs run
×10^3
χ² / ndf 49 / 32
p0 −213.8 ± 443.8
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 120
Std Dev 0
2
1
0
−1
−2
−3

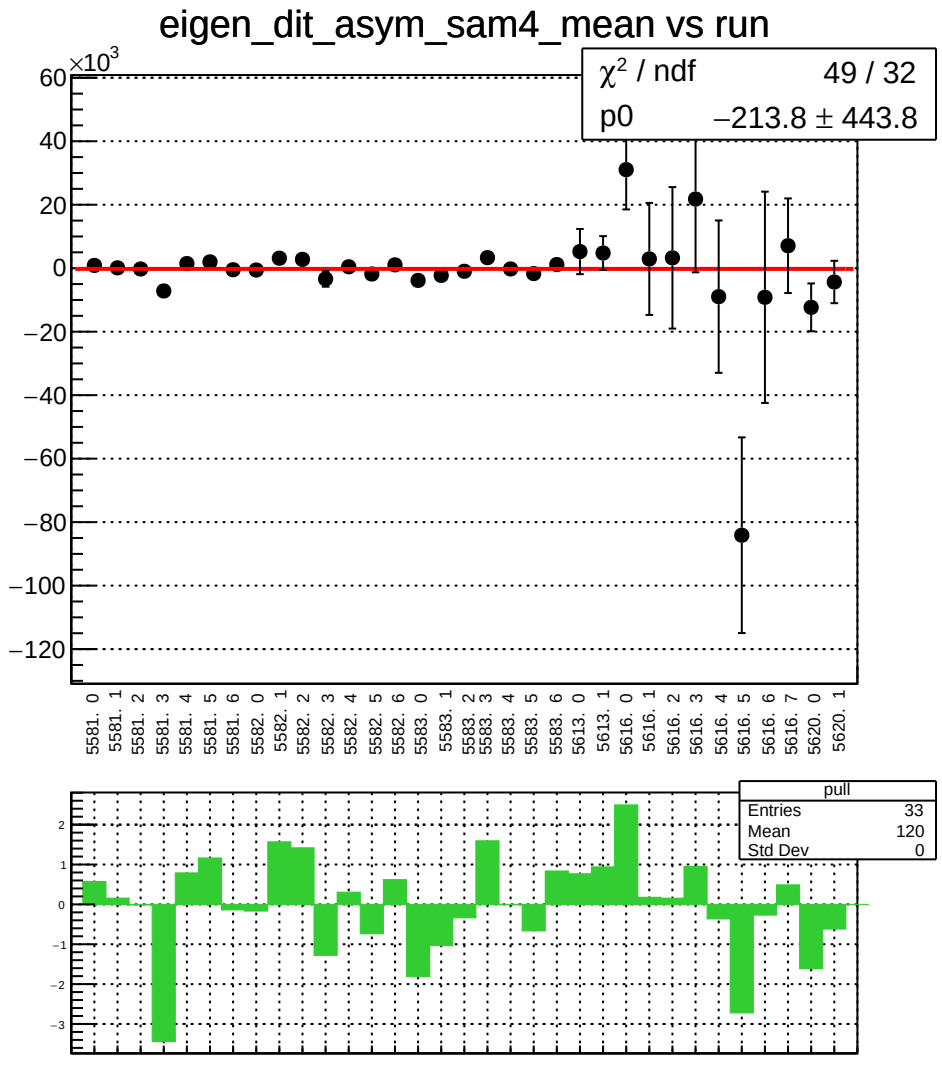

pull1D
Entries 33
Mean −0.006347
Std Dev 1.219
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

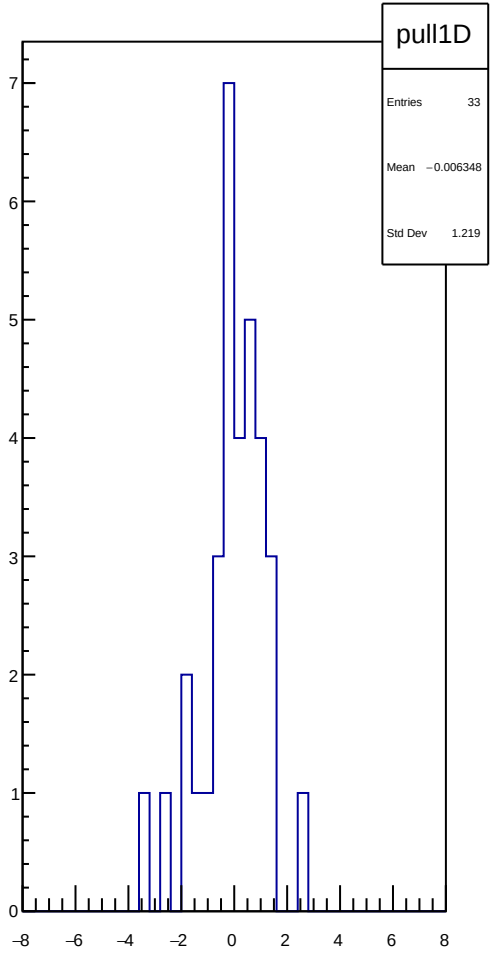

dit_asym_sam4_rms vs run
χ² / ndf 1.69e+05 / 32
p0 218.1 ± 0.3138
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

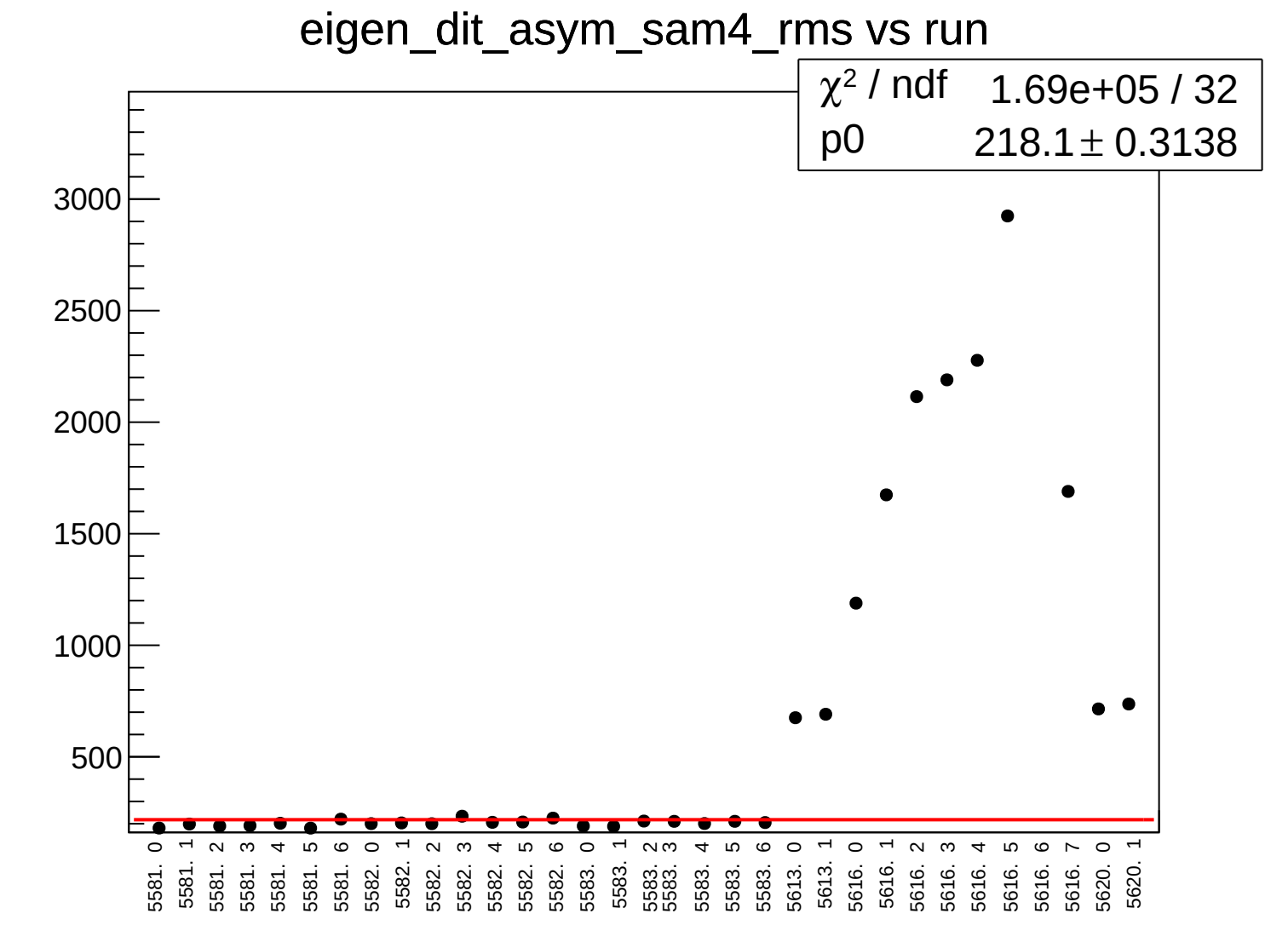

asym_sam4_dit_correction_mean vs run
χ² / ndf 34.67 / 32
p0 −6645 ± 3320
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 53.67
Std Dev 8.747
2
1
0
−1
−2

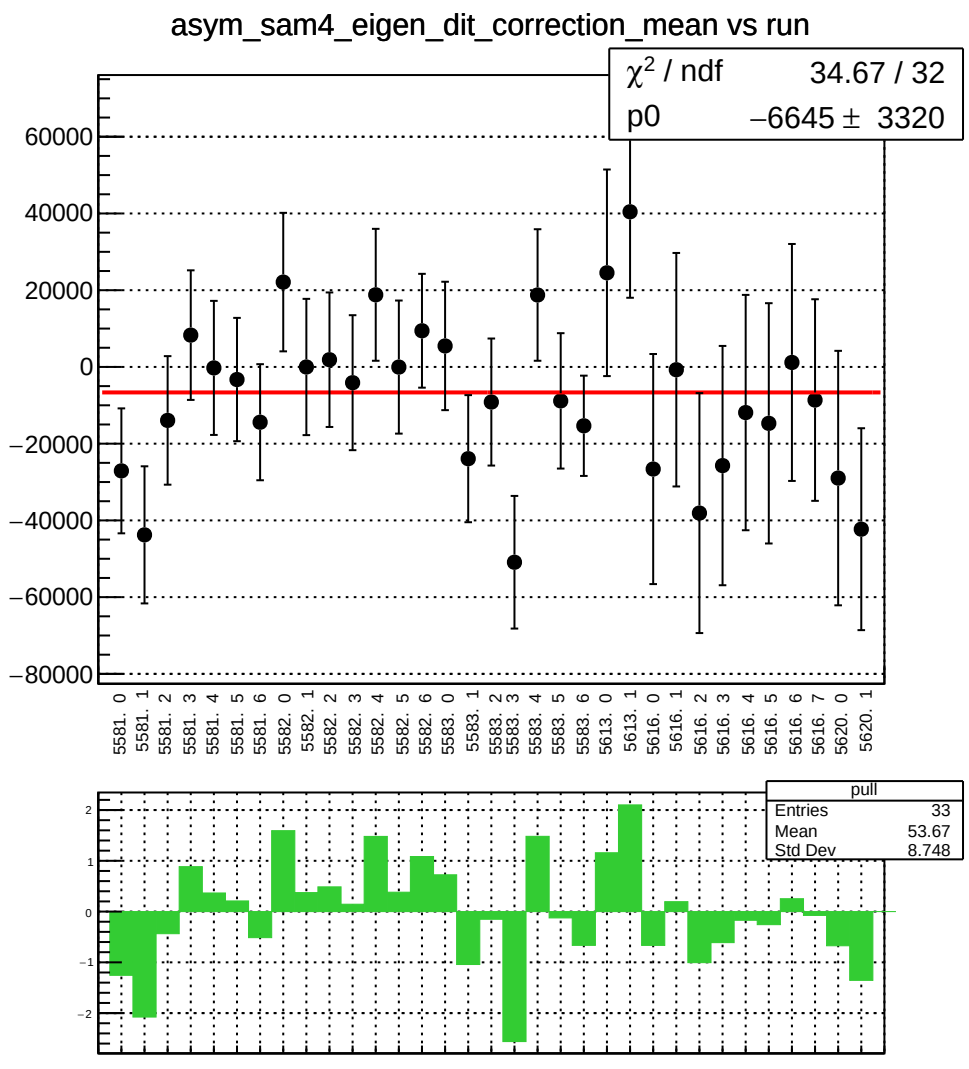

pull1D
Entries 33
Mean −0.02195
Std Dev 1.025
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

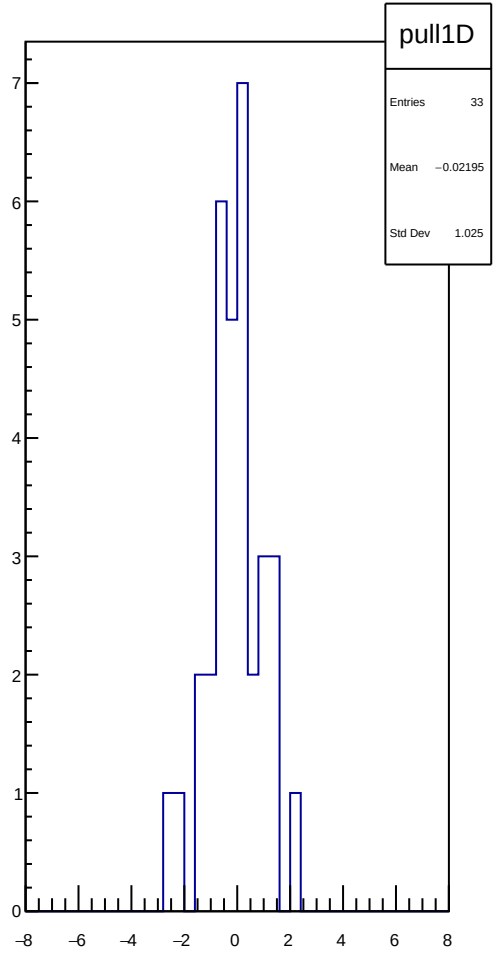

asym_sam4_dit_correction_rms vs run
χ² / ndf 4.04e+04 / 32
p0 1836 ± 2.348
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

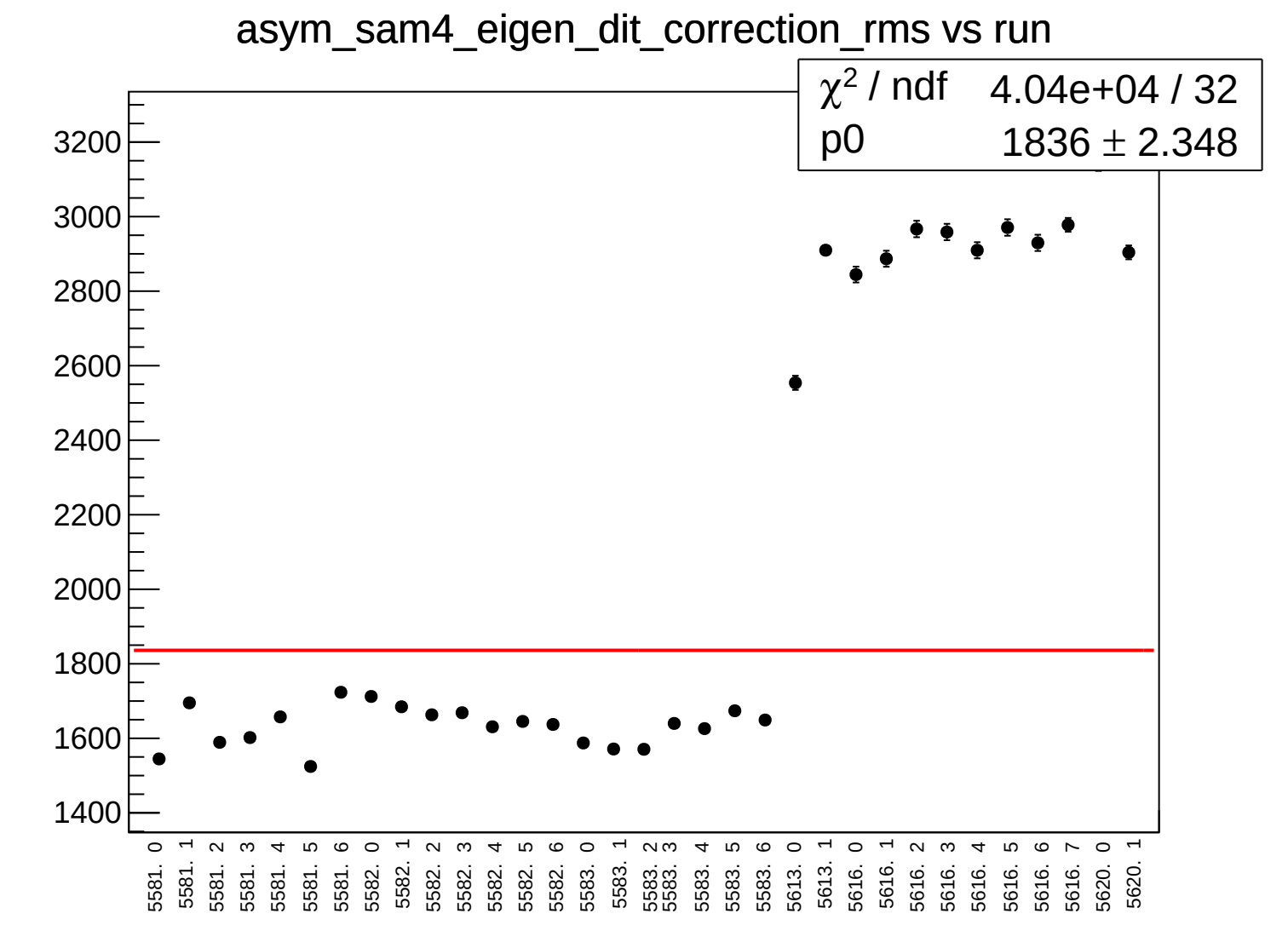

eigen_dit_asym_sam4_mean vs run
χ² / ndf 49 / 32
p0 −213.8 ± 443.8
×10³
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 120
Std Dev 0
2
1
0
−1
−2
−3

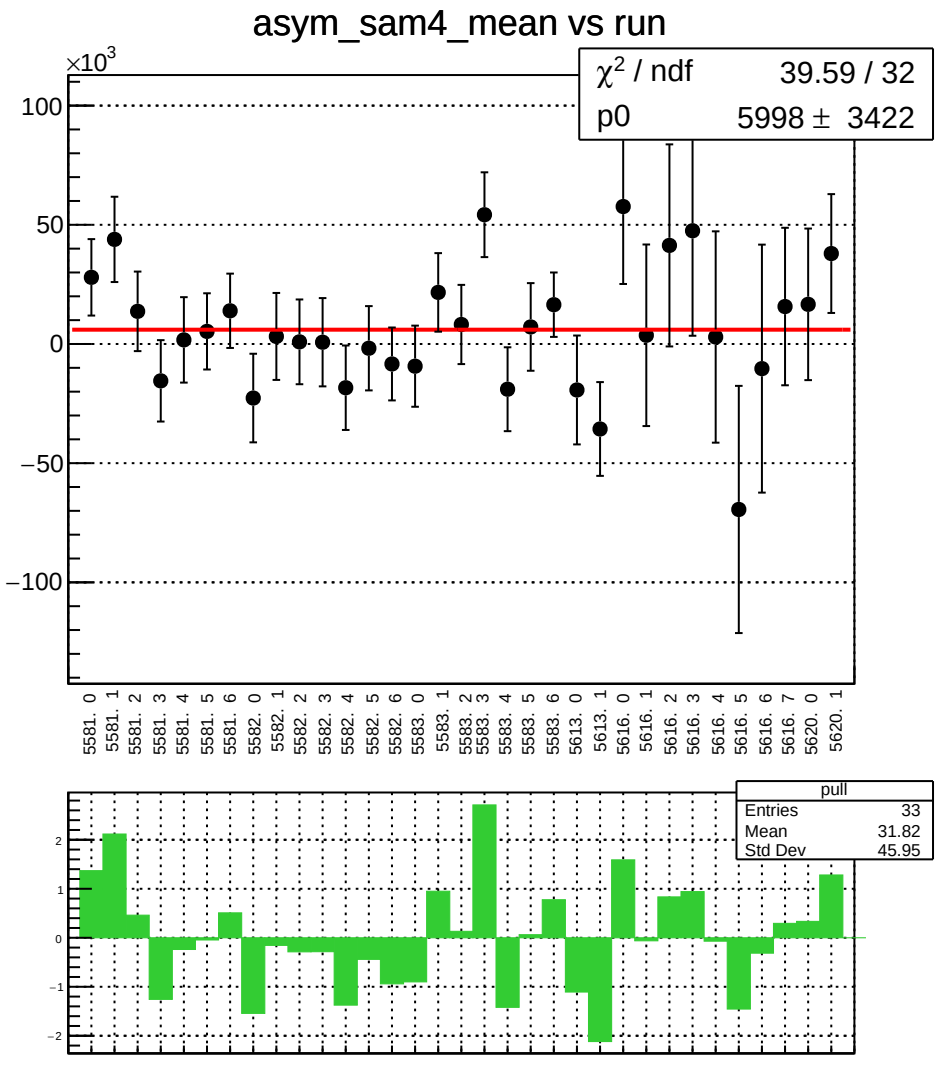

pull1D
Entries 33
Mean −0.006348
Std Dev 1.219
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

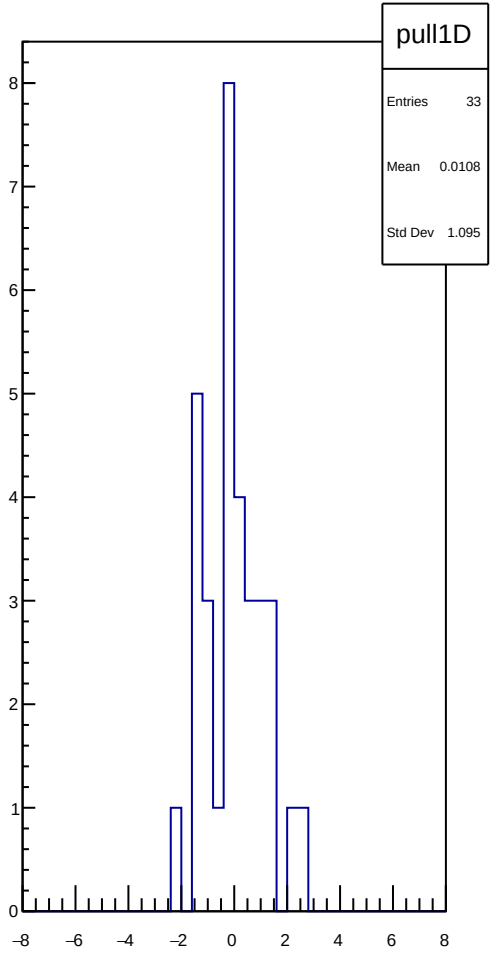

eigen_dit_asym_sam4_rms vs run
χ² / ndf 1.69e+05 / 32
p0 218.1 ± 0.3138
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

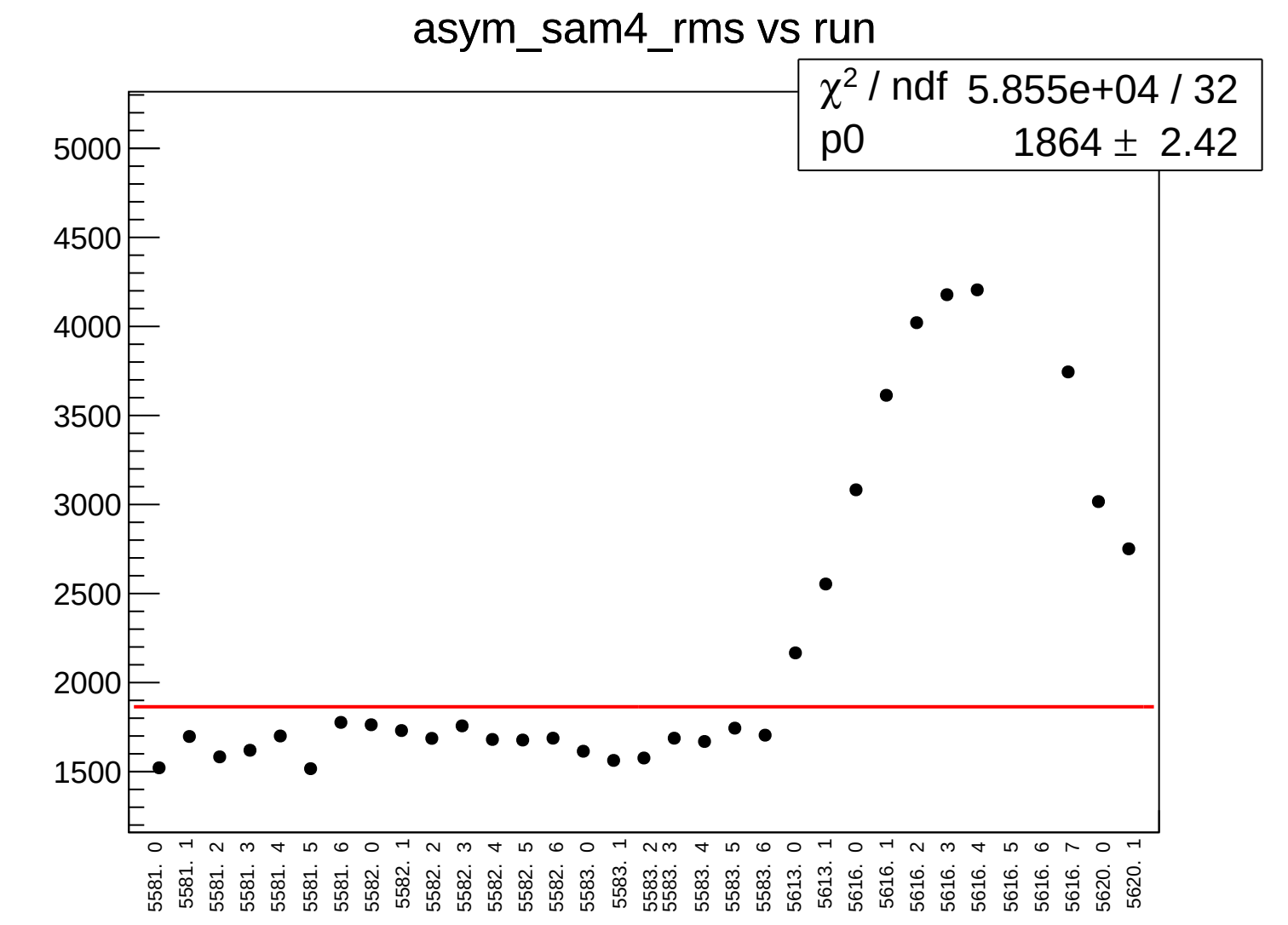

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 34.67 / 32
p0 −6645 ± 3320
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 53.67
Std Dev 8.748
2
1
0
−1
−2

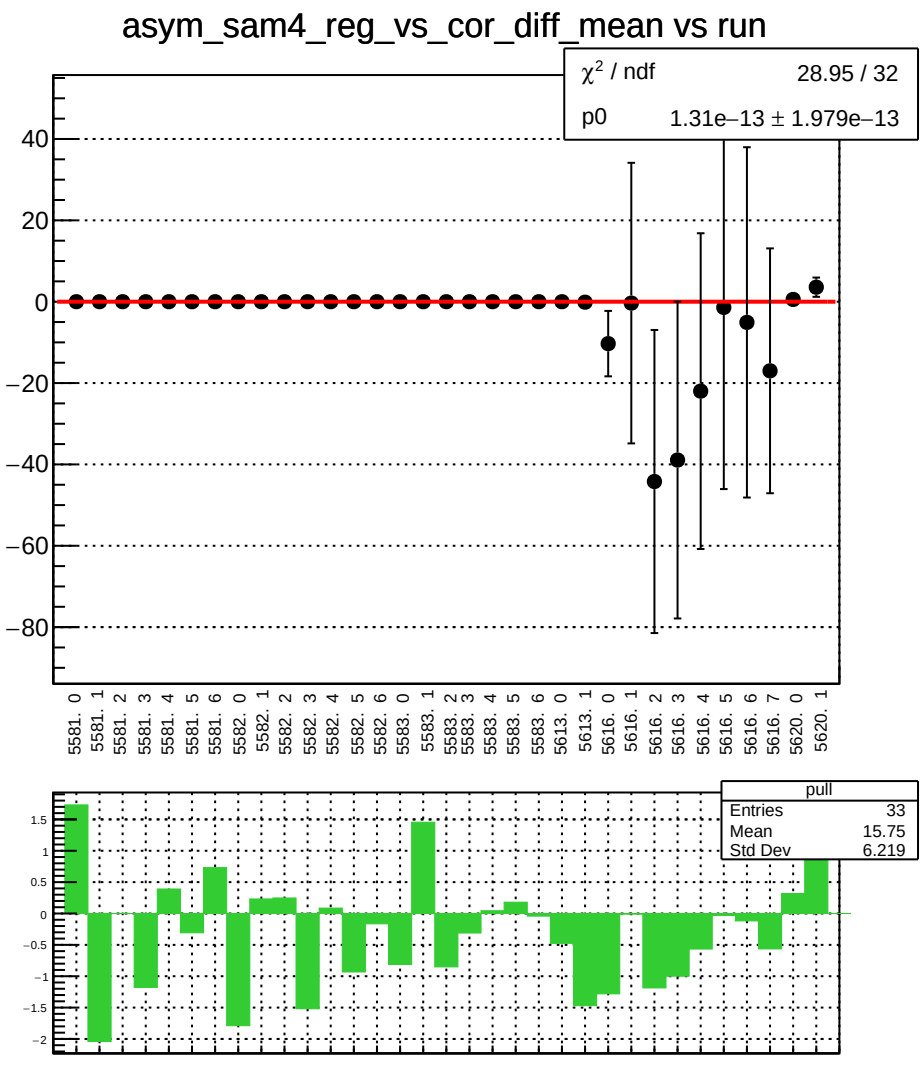

pull1D
Entries 33
Mean −0.02195
Std Dev 1.025
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

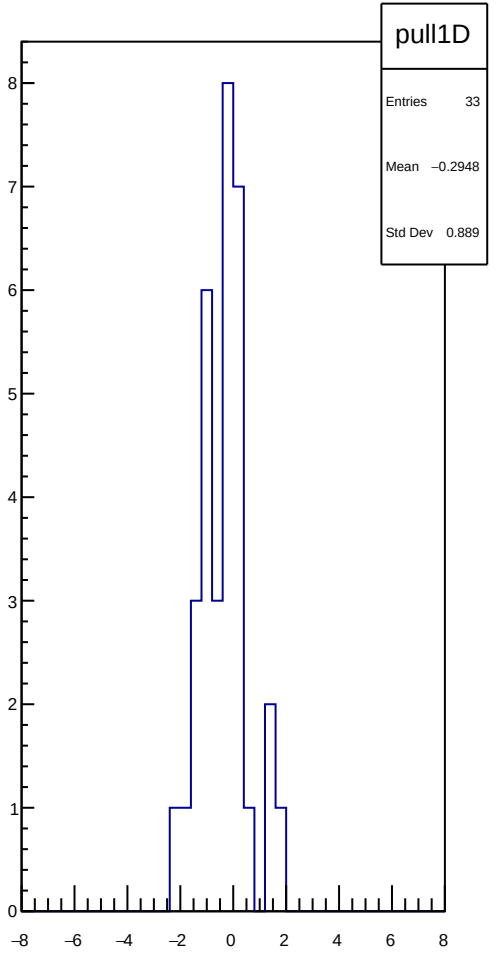

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 4.04e+04 / 32
p0 1836 ± 2.348
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

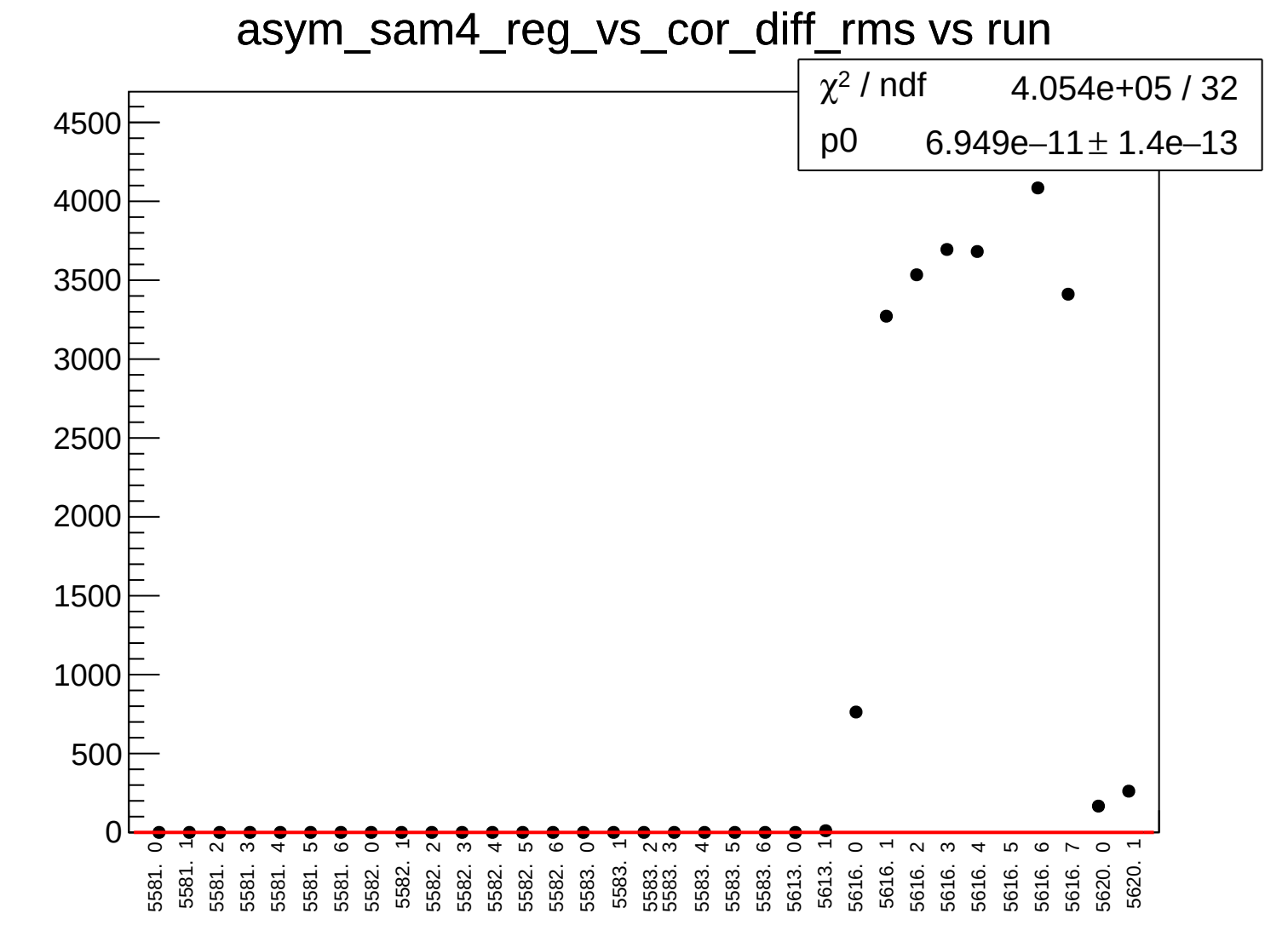

asym_sam4_mean vs run
×10^3
χ^2 / ndf 39.59 / 32
p0 5998 ± 3422
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.82
Std Dev 45.95
2
1
0
−1
−2

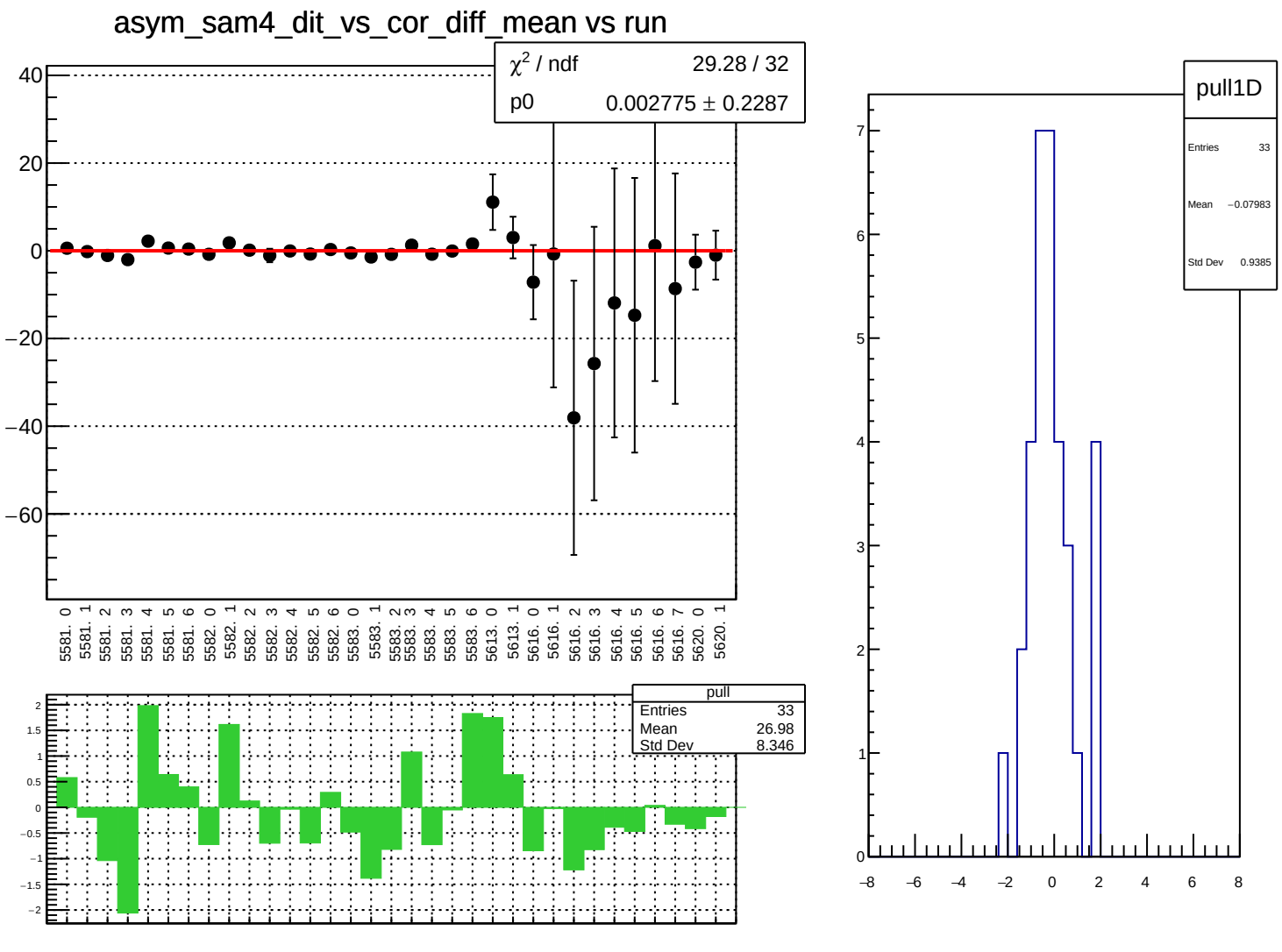

pull1D
Entries 33
Mean 0.0108
Std Dev 1.095
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

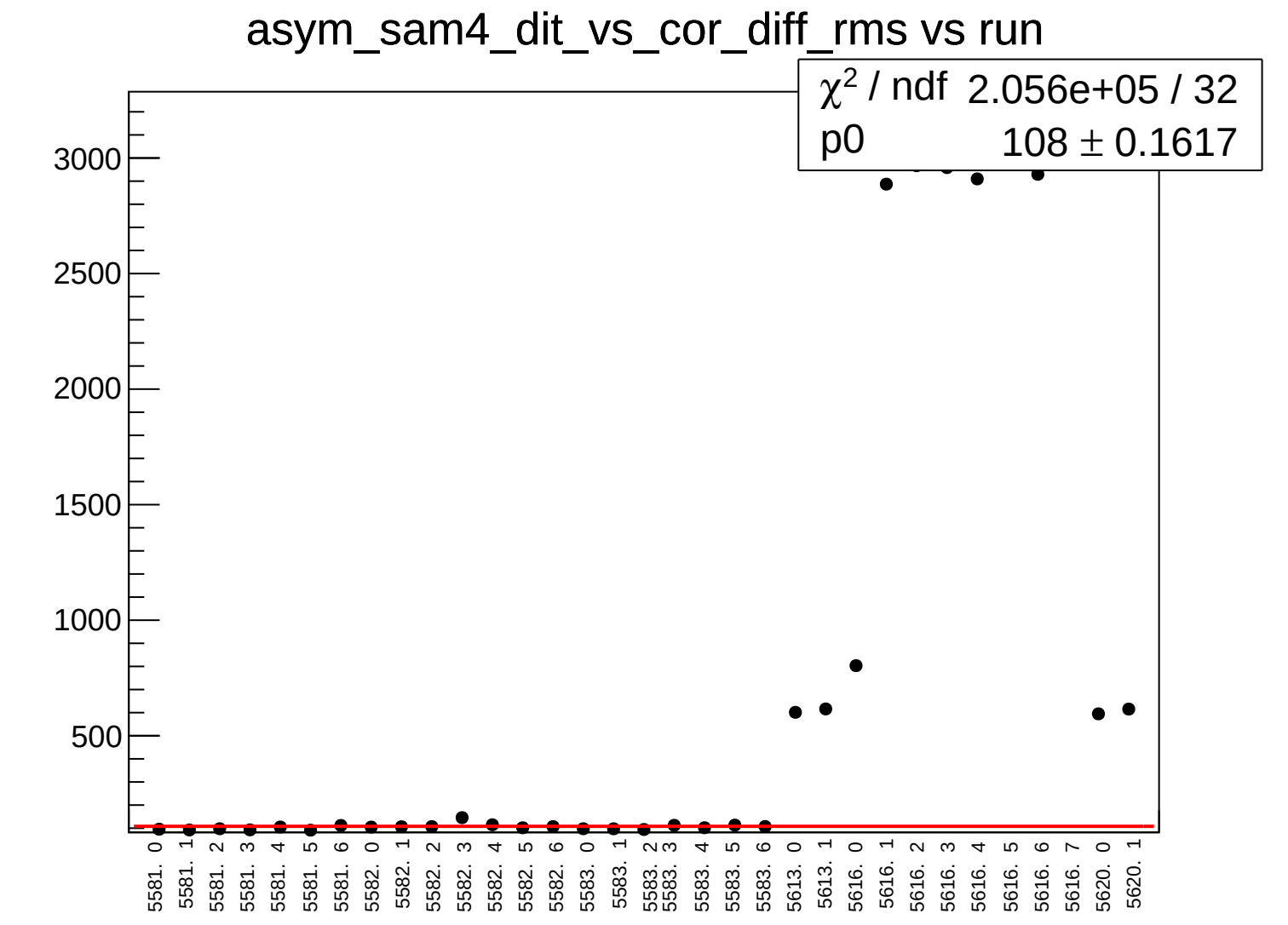

asym_sam4_rms vs run
χ² / ndf 5.855e+04 / 32
p0 1864 ± 2.42
5000
4500
4000
3500
3000
2500
2000
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

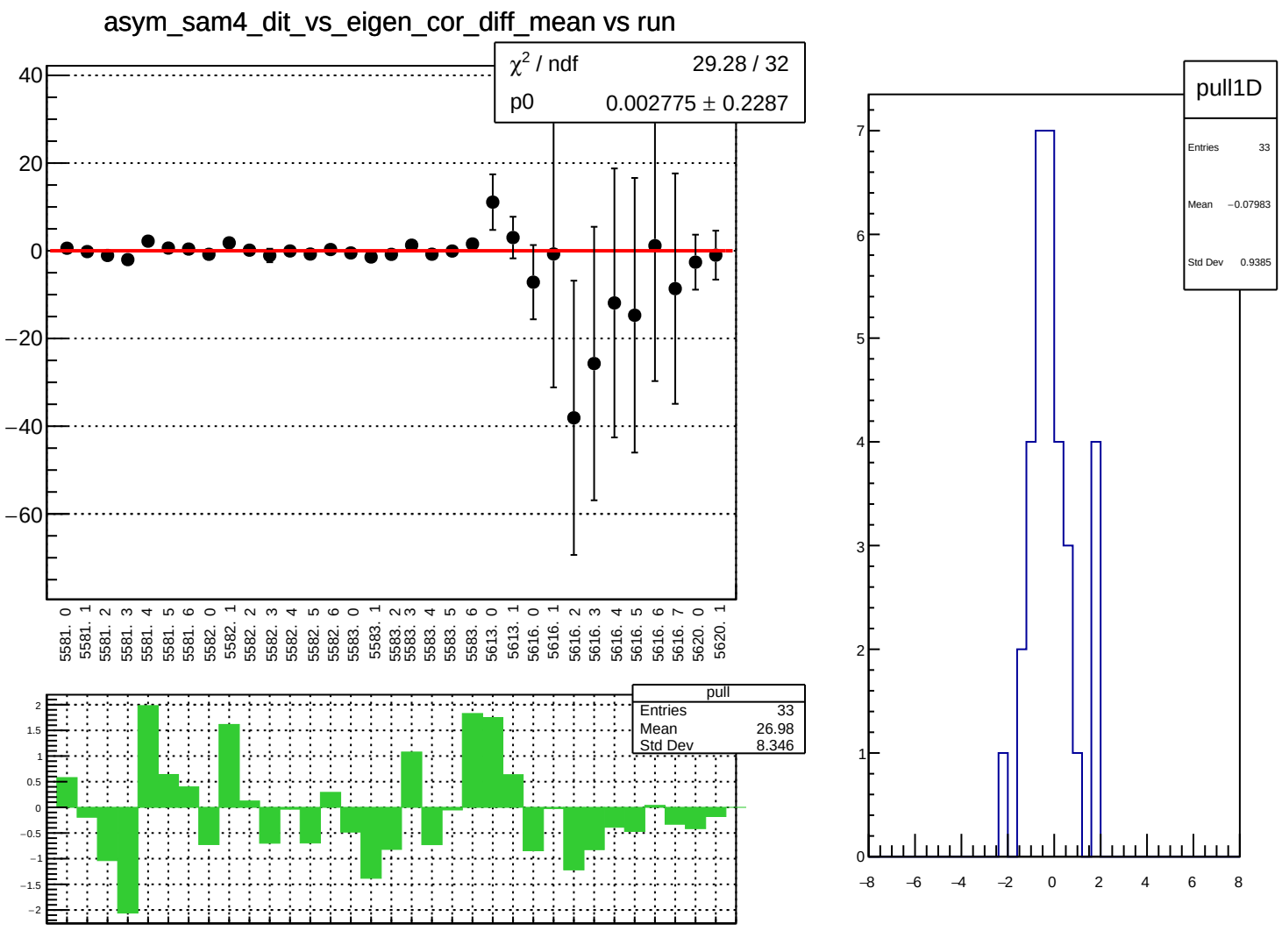

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 28.95 / 32
p0 1.31e−13 ± 1.979e−13
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 15.75
Std Dev 6.219
1.5
1
0.5
0
−0.5
−1
−1.5
−2

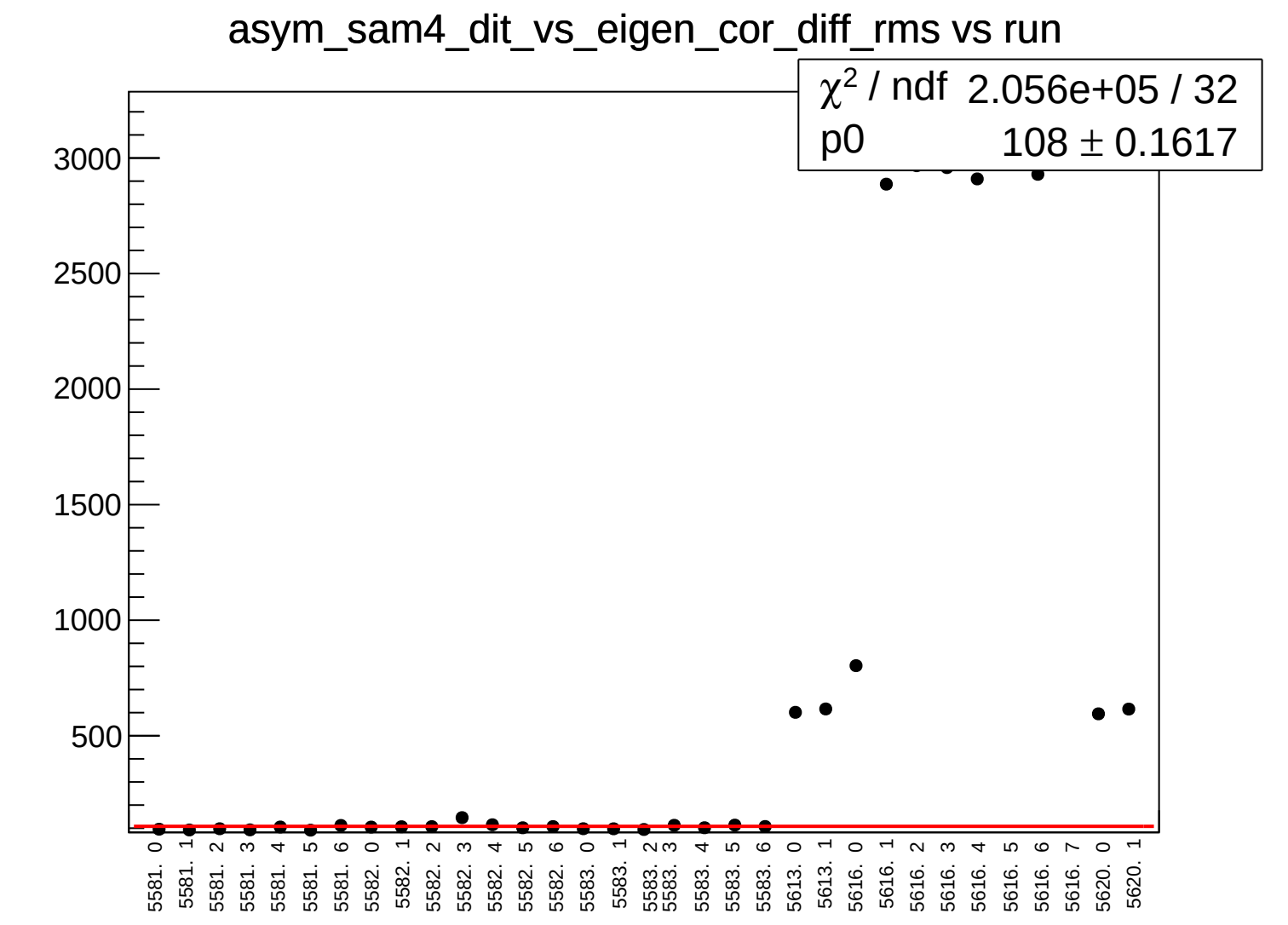

pull1D
Entries 33
Mean −0.2948
Std Dev 0.889
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

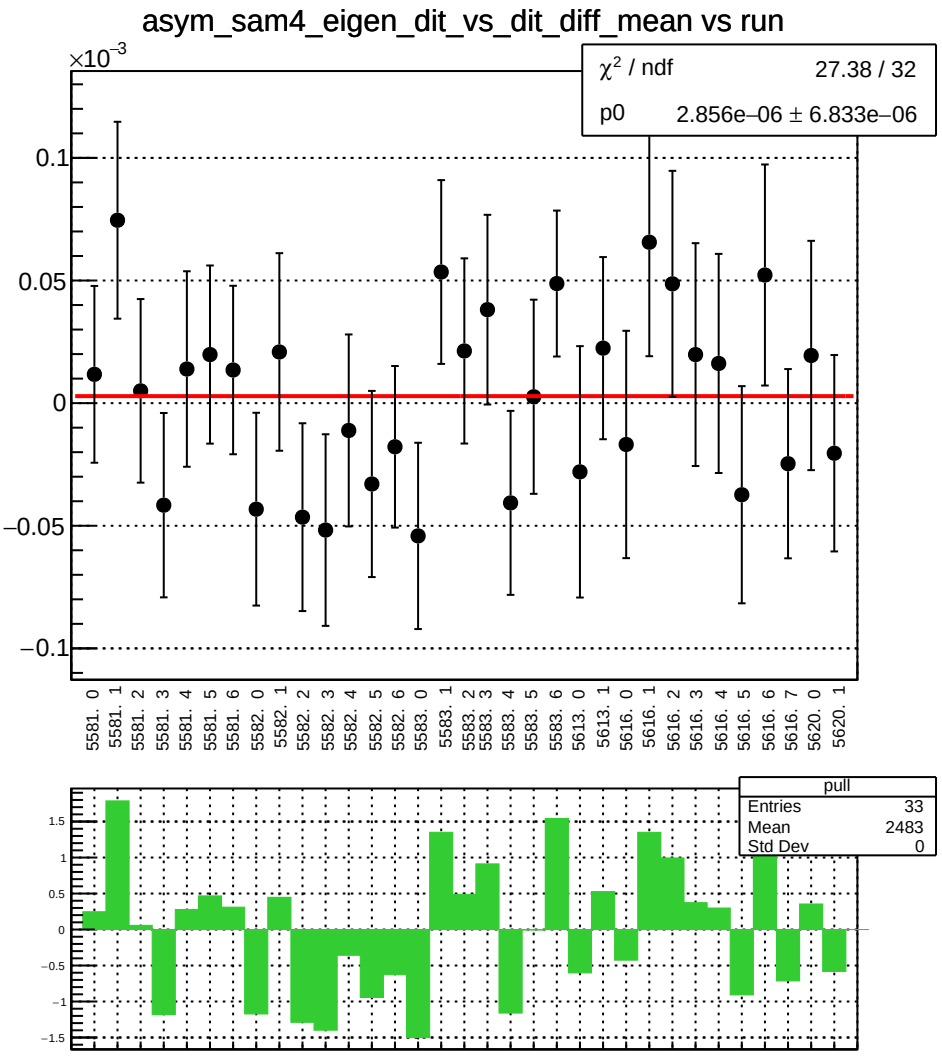

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 4.054e+05 / 32
p0 6.949e−11 ± 1.4e−13
4500
4000
3500
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

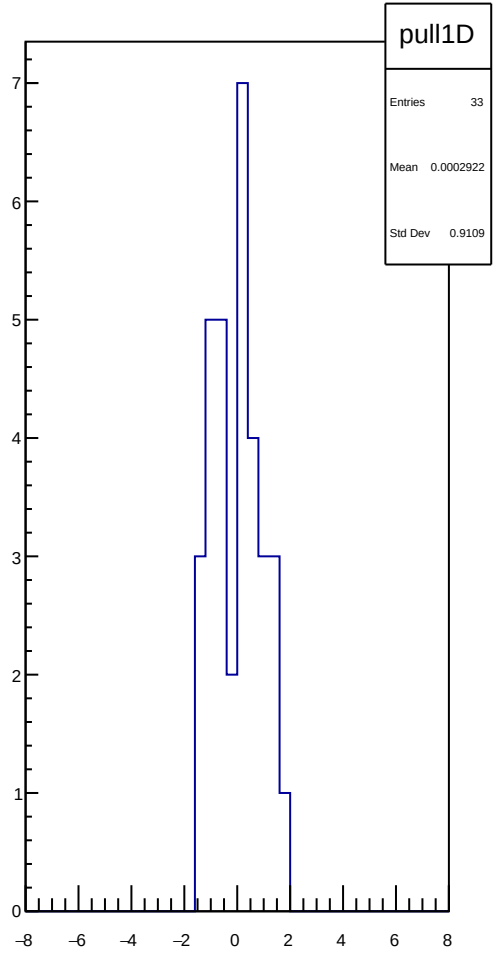

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 29.28 / 32
p0 0.002775 ± 0.2287
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.98
Std Dev 8.346
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.07983
Std Dev 0.9385
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

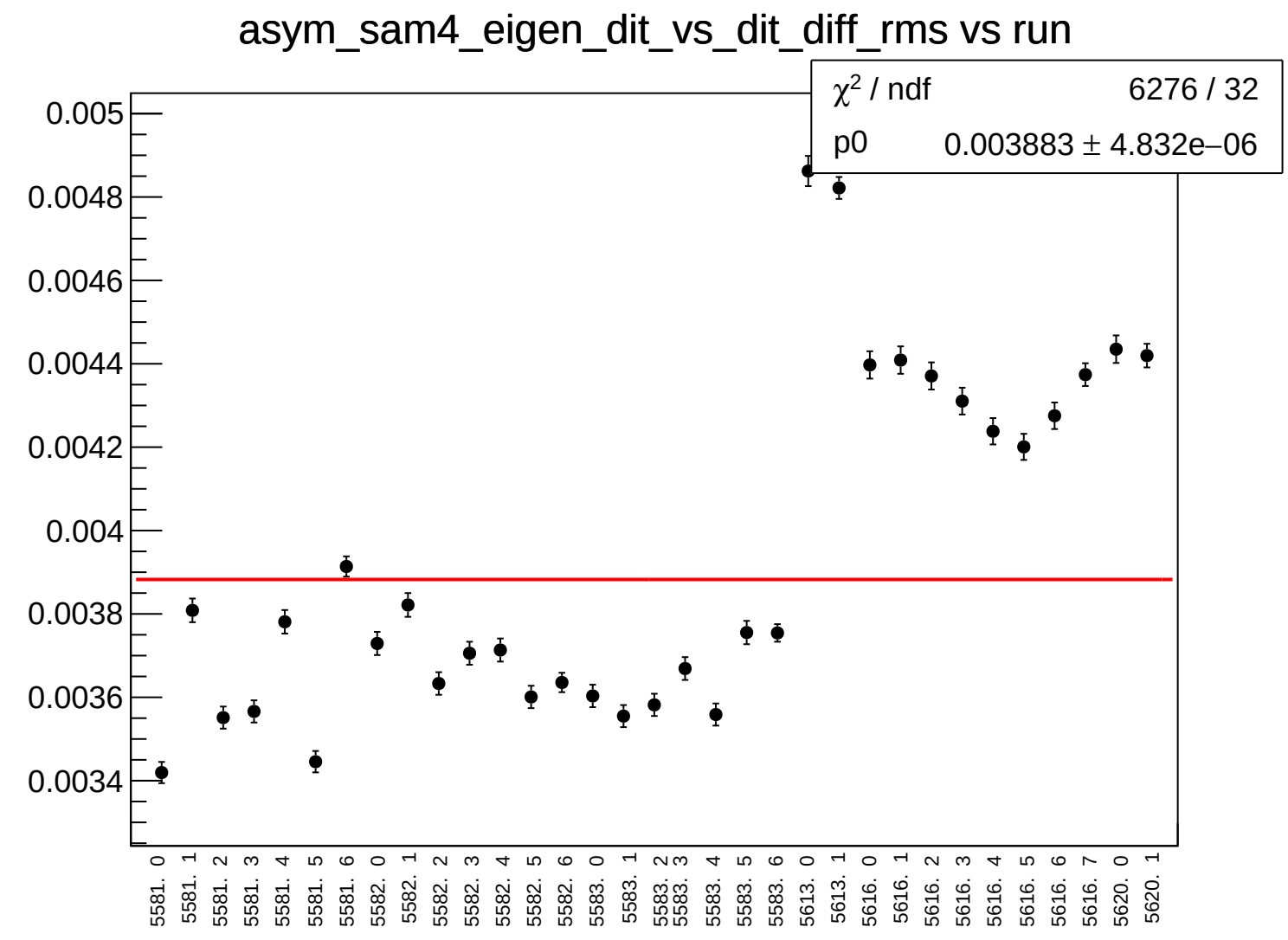

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 2.056e+05 / 32
p0 108 ± 0.1617
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

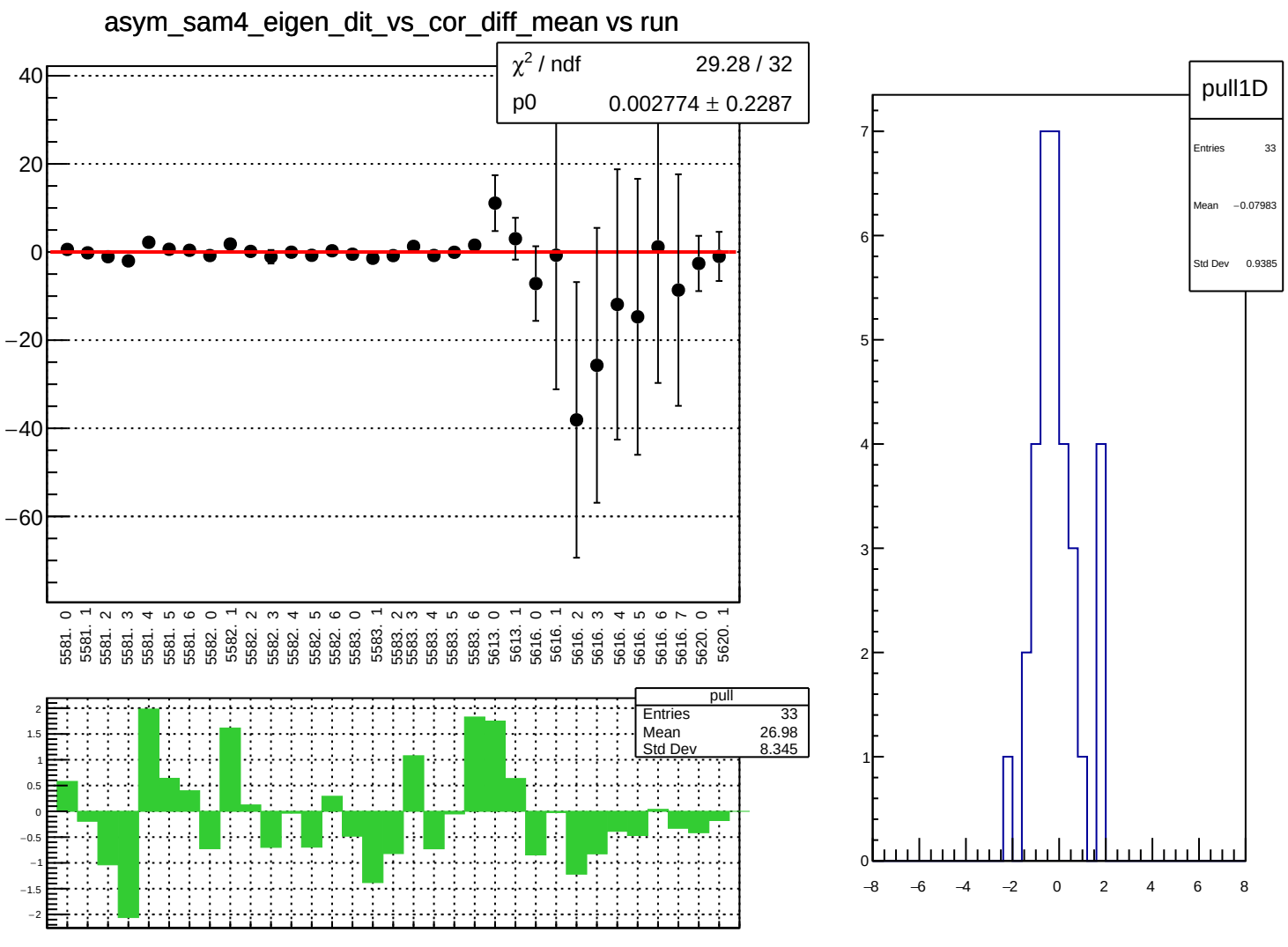

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.28 / 32
p0 0.002775 ± 0.2287
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.98
Std Dev 8.346
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.07983
Std Dev 0.9385
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

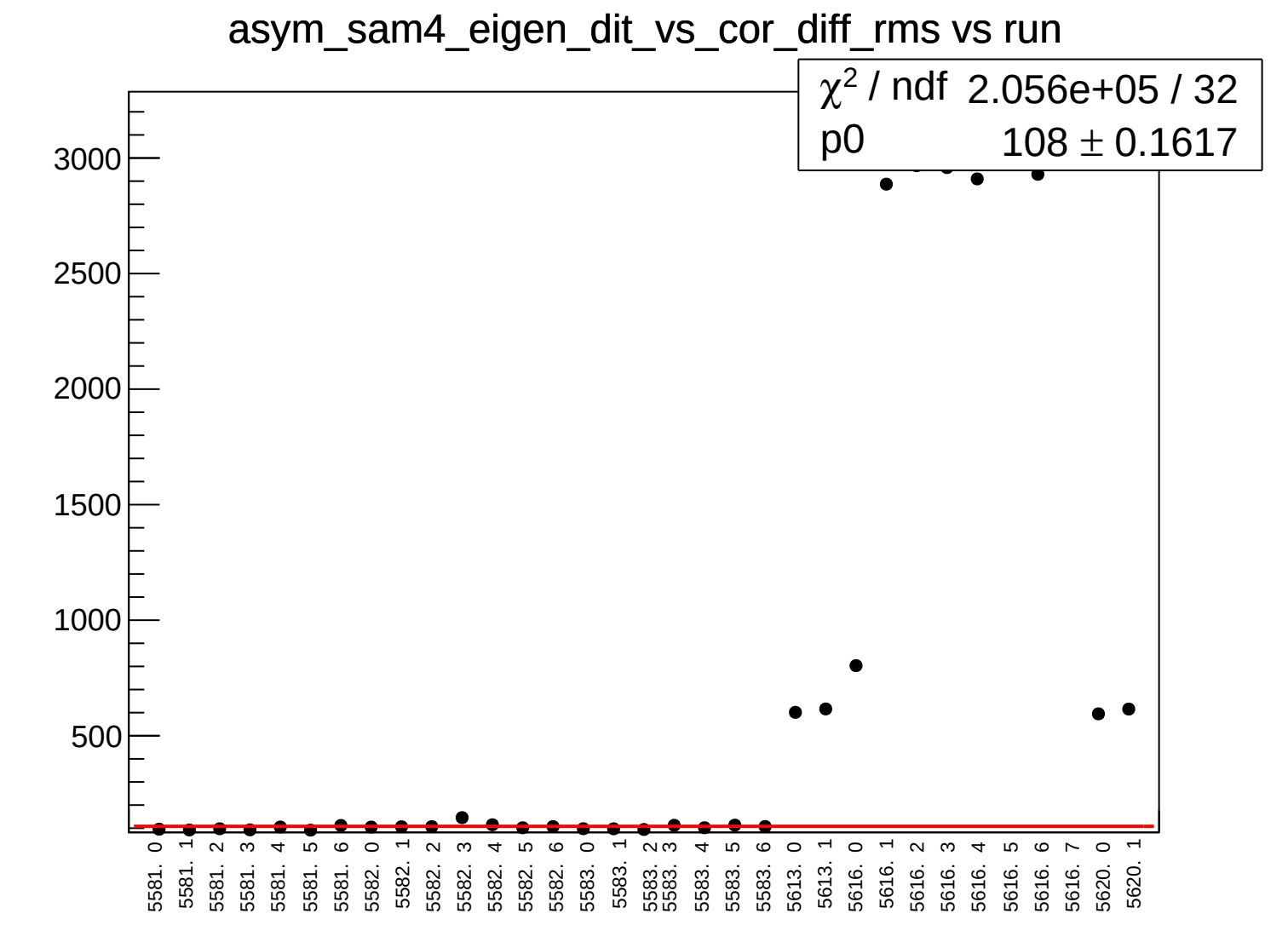

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.056e+05 / 32
p0 108 ± 0.1617
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

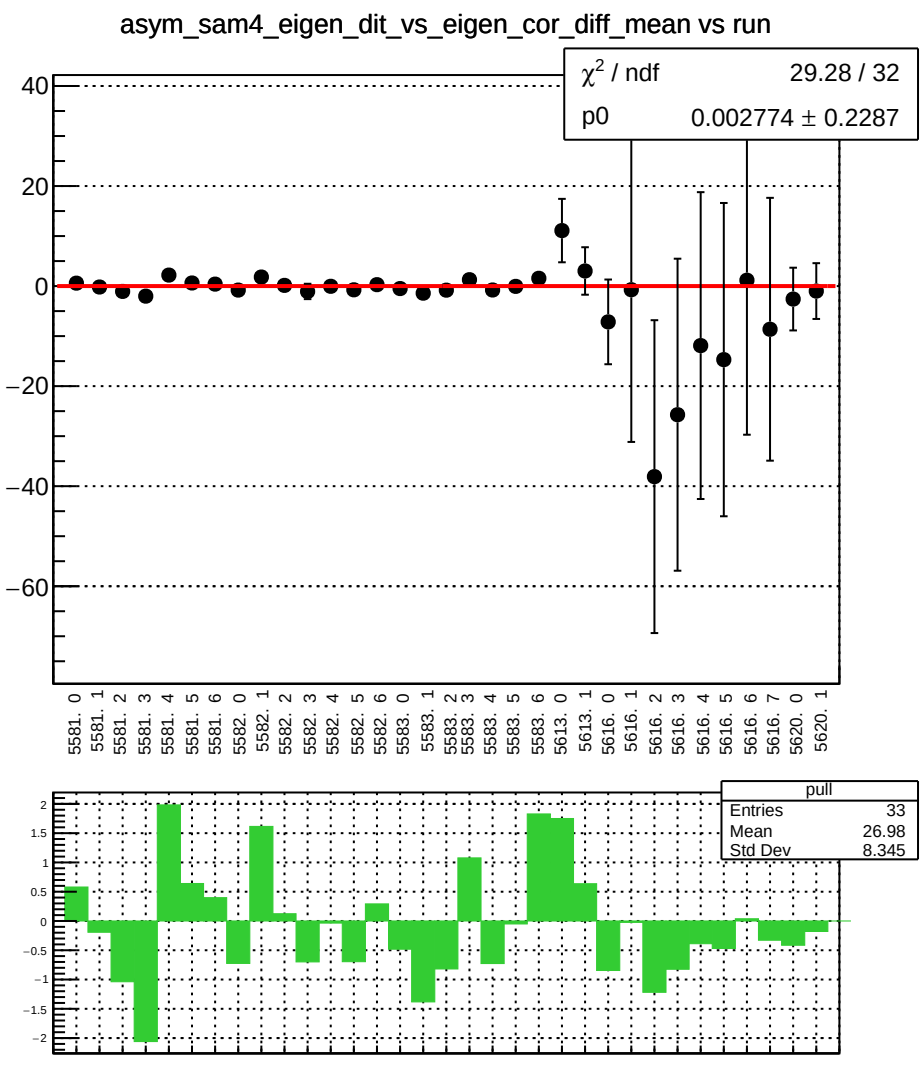

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.38 / 32
p0 2.856e−06 ± 6.833e−06
0.1
0.05
0
−0.05
−0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2483
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

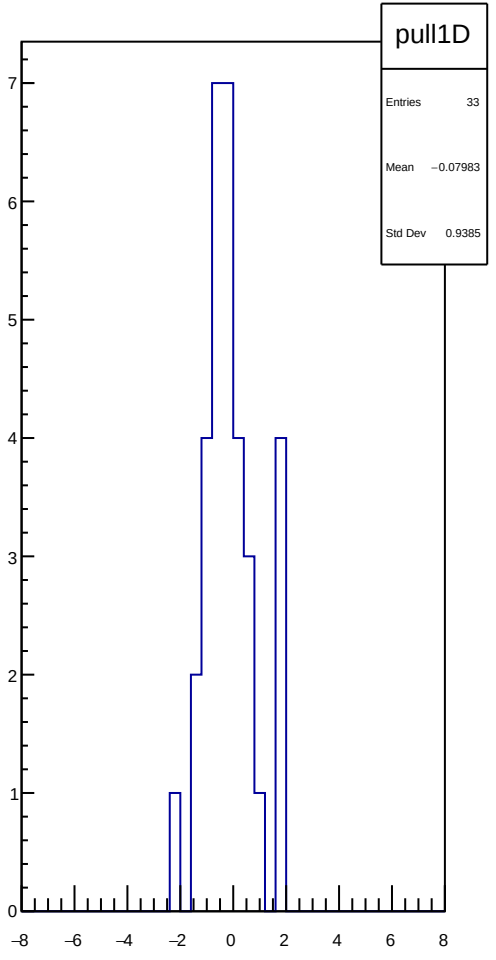

pull1D
Entries 33
Mean 0.0002922
Std Dev 0.9109
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

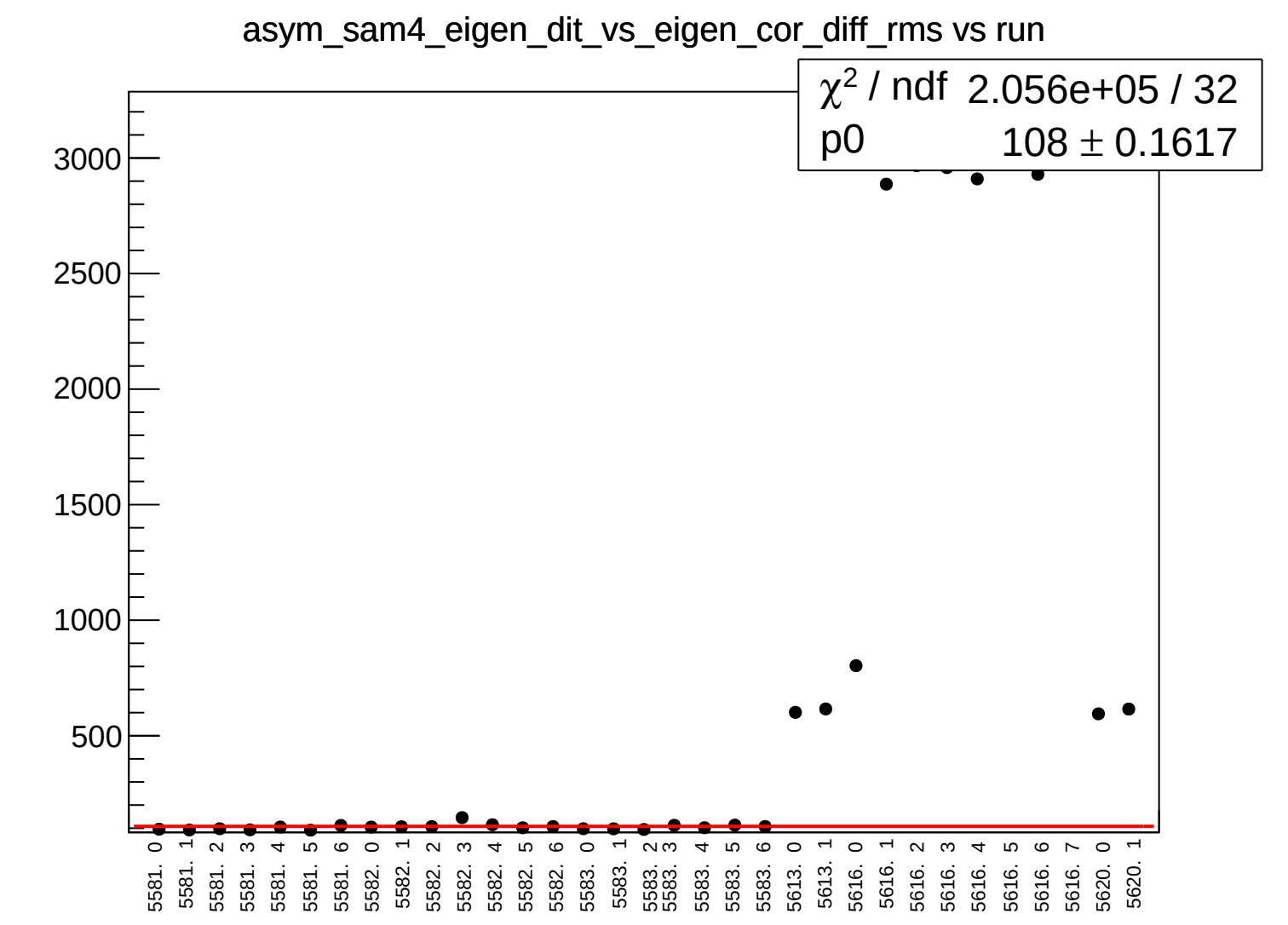

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6276 / 32
p0 0.003883 ± 4.832e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

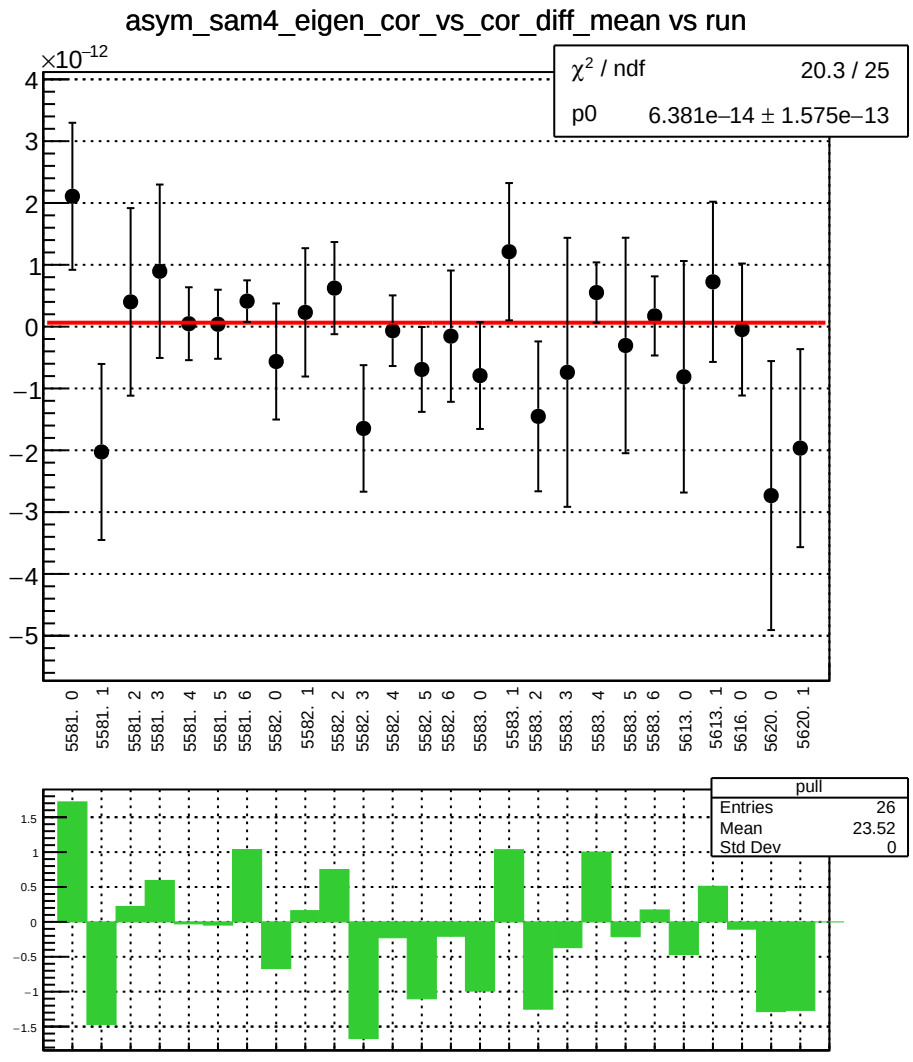

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.28 / 32
p0 0.002774 ± 0.2287
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.98
Std Dev 8.345
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.07983
Std Dev 0.9385
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

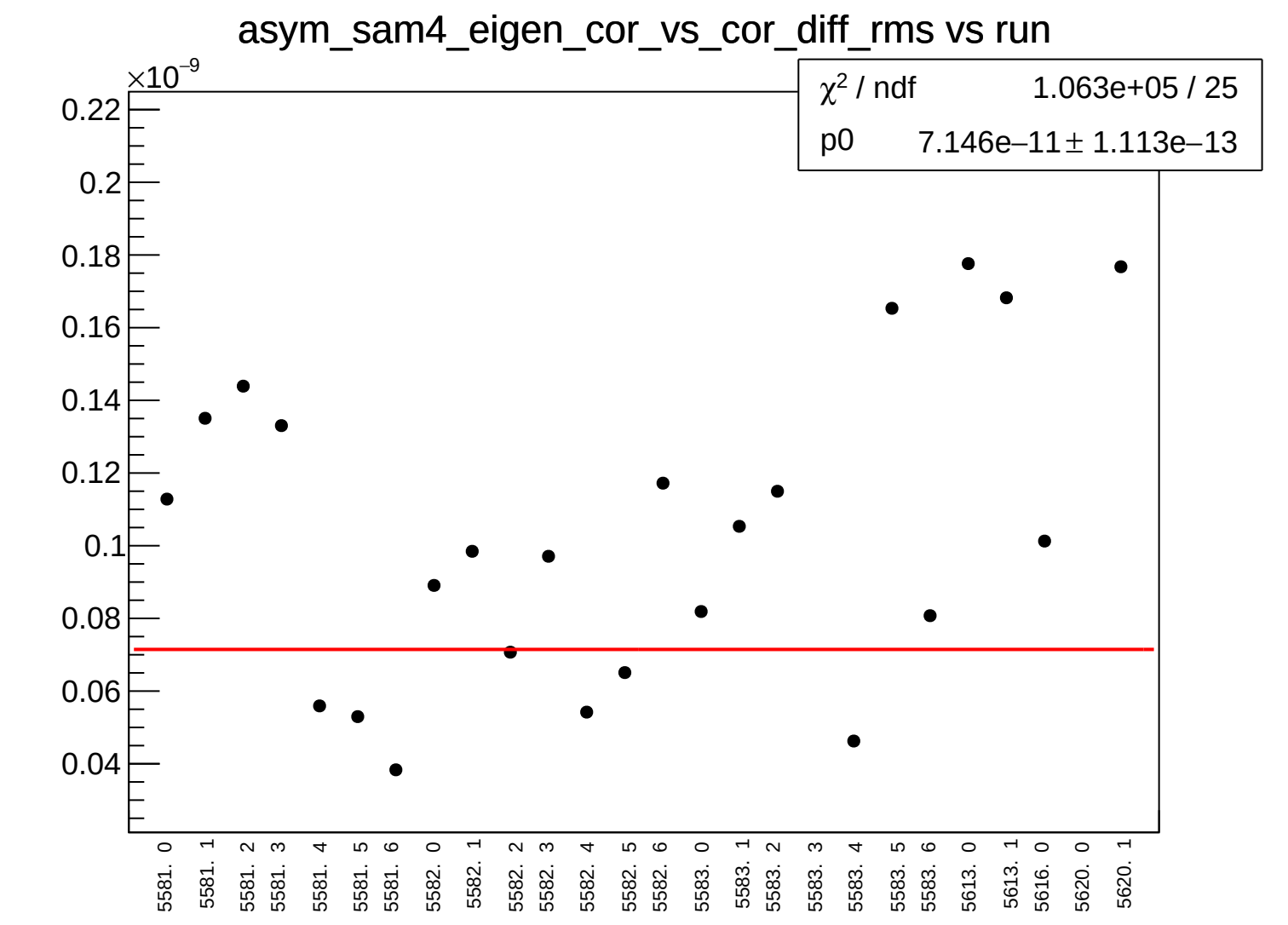

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.056e+05 / 32
p0 108 ± 0.1617
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

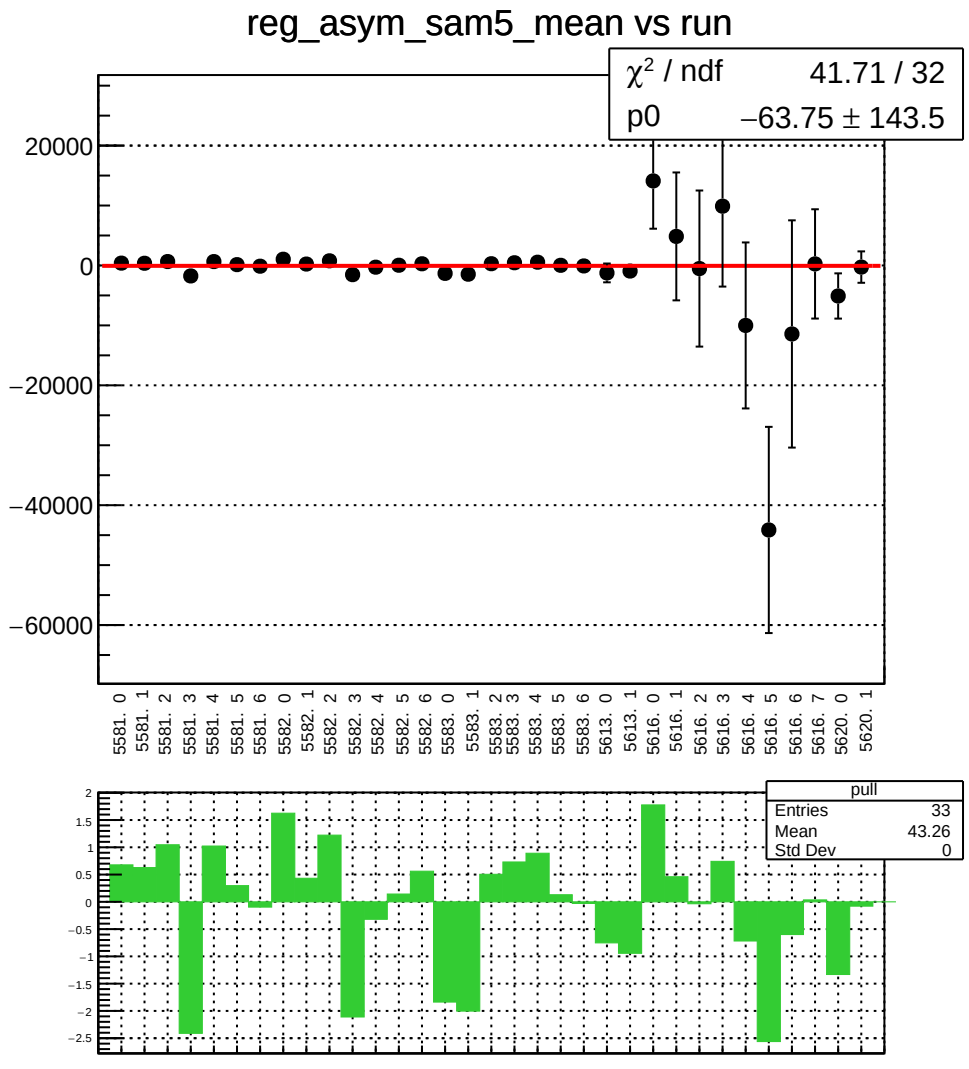

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.28 / 32
p0 0.002774 ± 0.2287
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.98
Std Dev 8.345
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

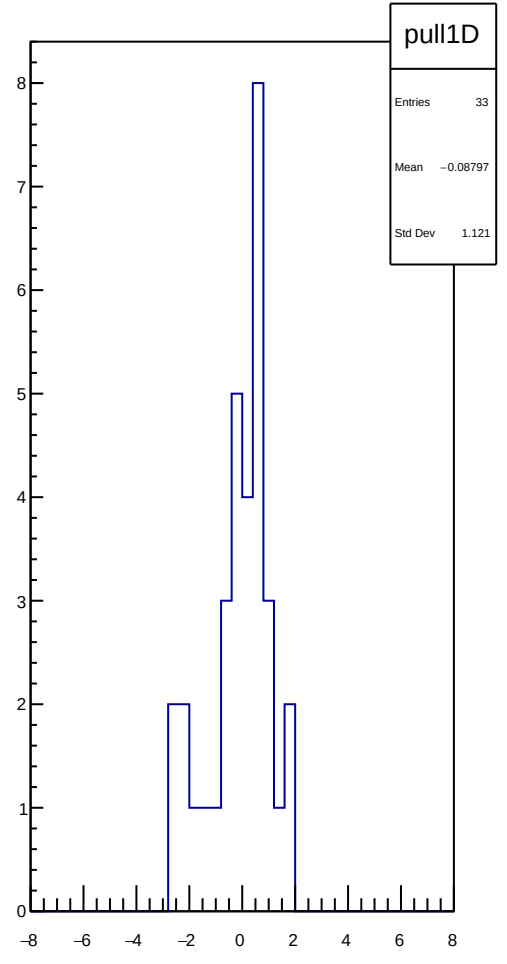

pull1D
Entries 33
Mean −0.07983
Std Dev 0.9385
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

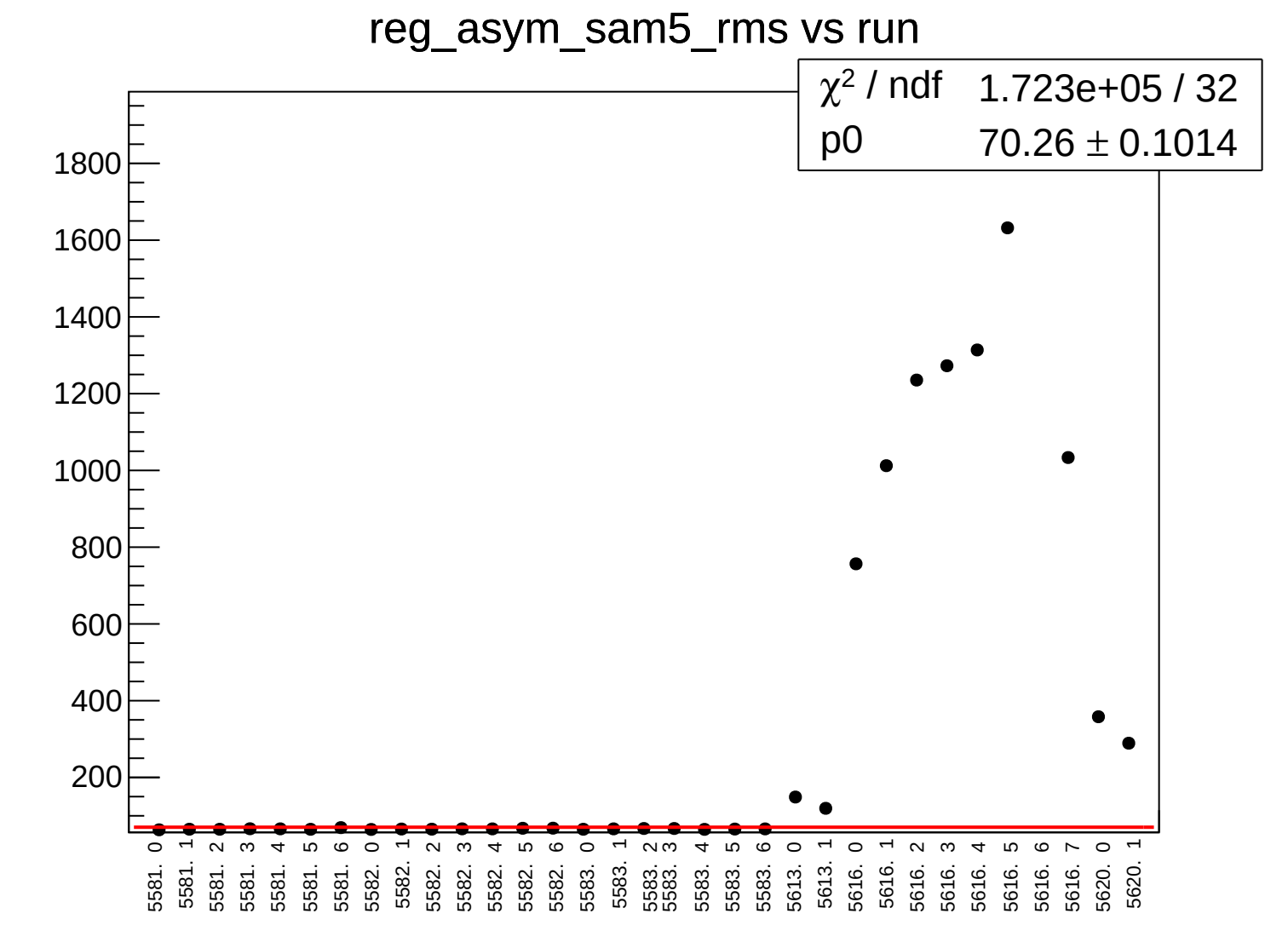

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.056e+05 / 32
p0 108 ± 0.1617
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

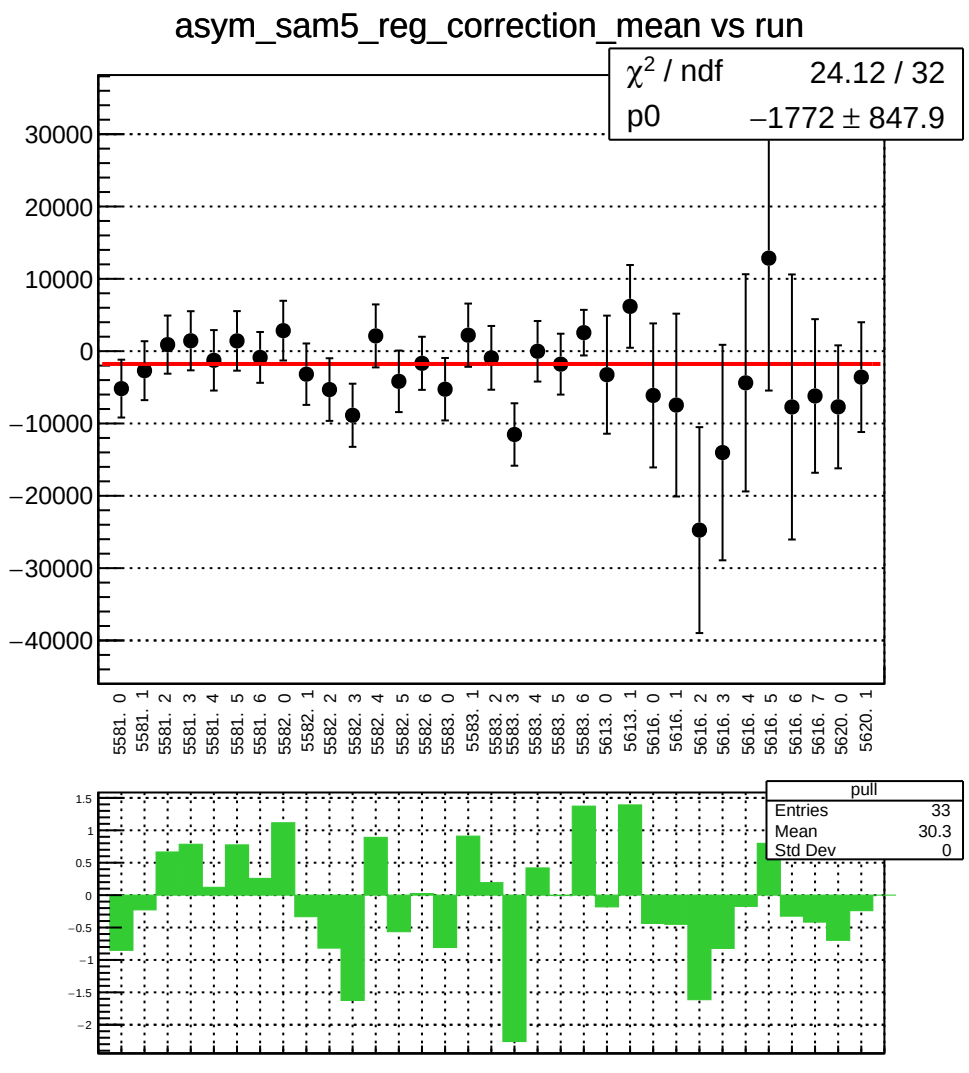

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 20.3 / 25
p0 6.381e−14 ± 1.575e−13
4
3
2
1
0
−1
−2
−3
−4
−5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 23.52
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.1601
Std Dev 0.869
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

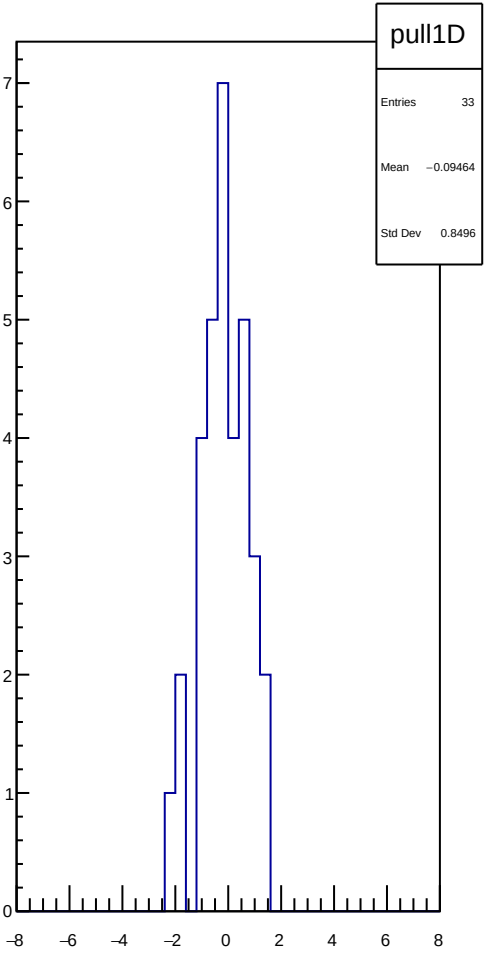

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.063e+05 / 25
p0 7.146e−11 ± 1.113e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

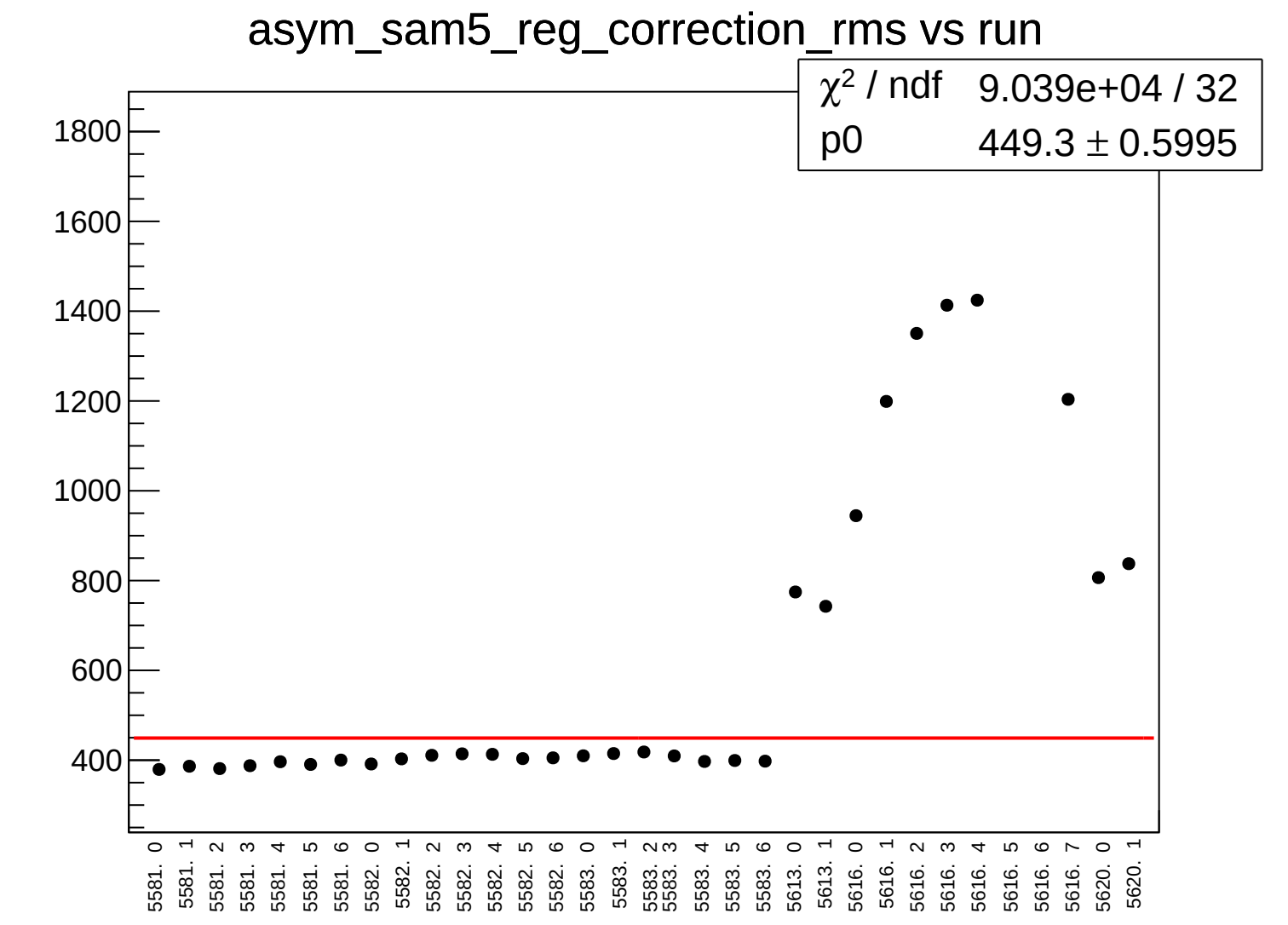

reg_asym_sam5_mean vs run
χ² / ndf 41.71 / 32
p0 −63.75 ± 143.5
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 43.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

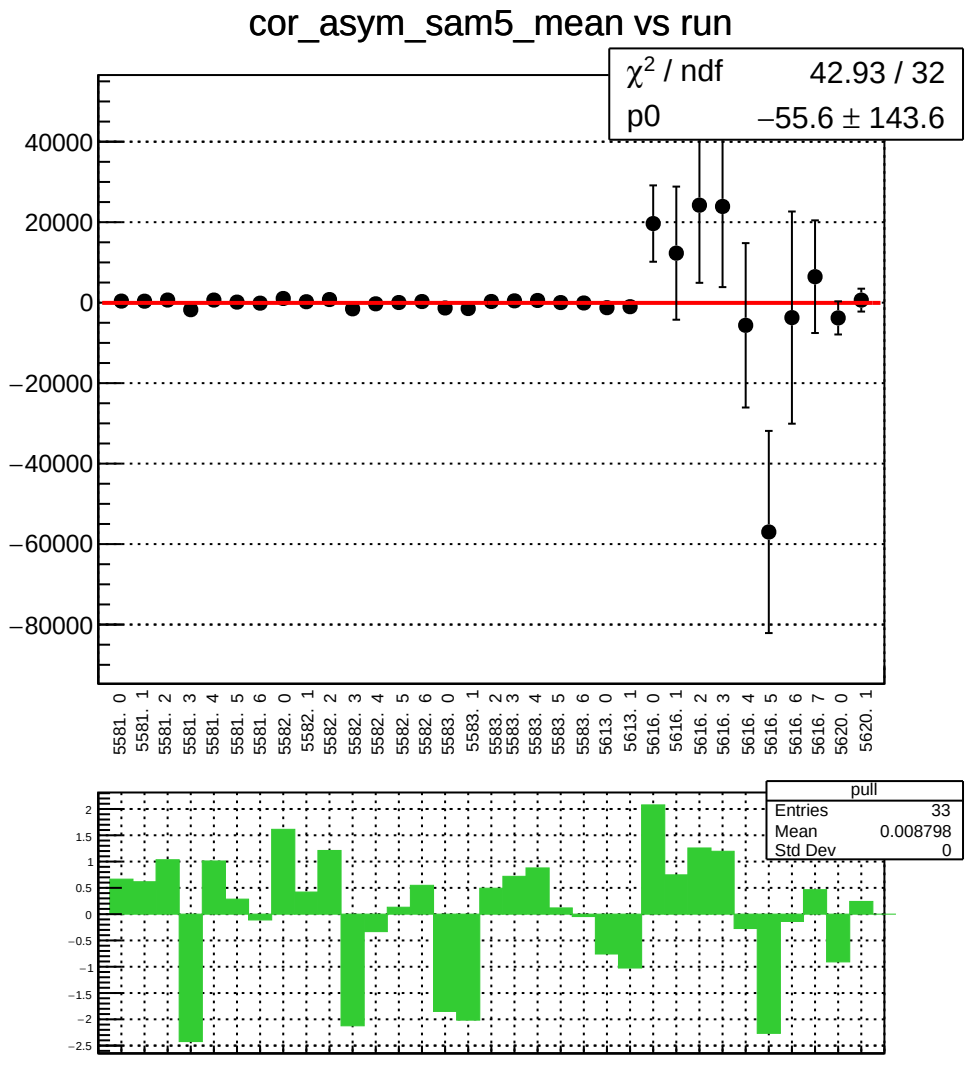

pull1D
Entries 33
Mean −0.08797
Std Dev 1.121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

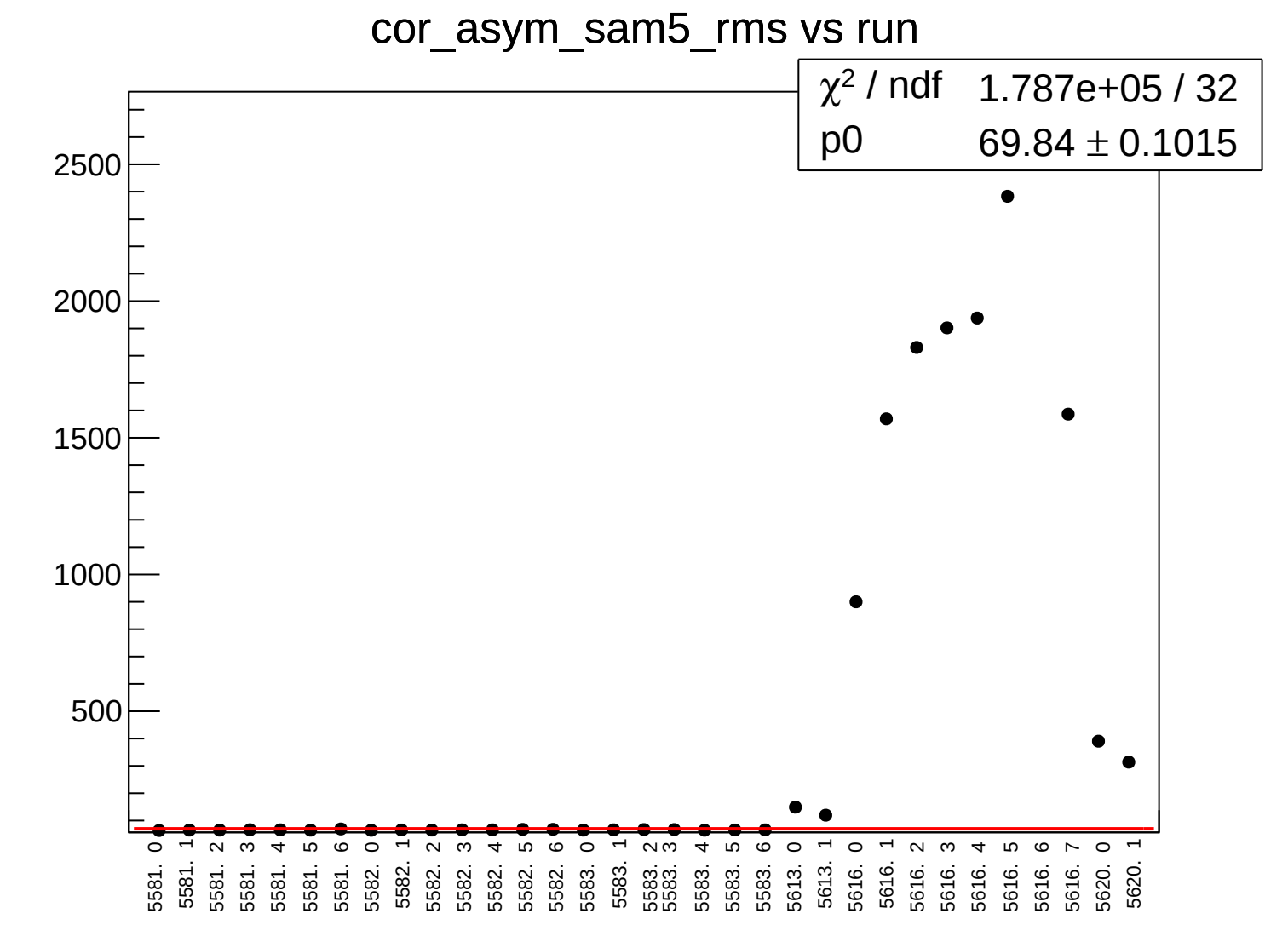

reg_asym_sam5_rms vs run
χ² / ndf 1.723e+05 / 32
p0 70.26 ± 0.1014
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

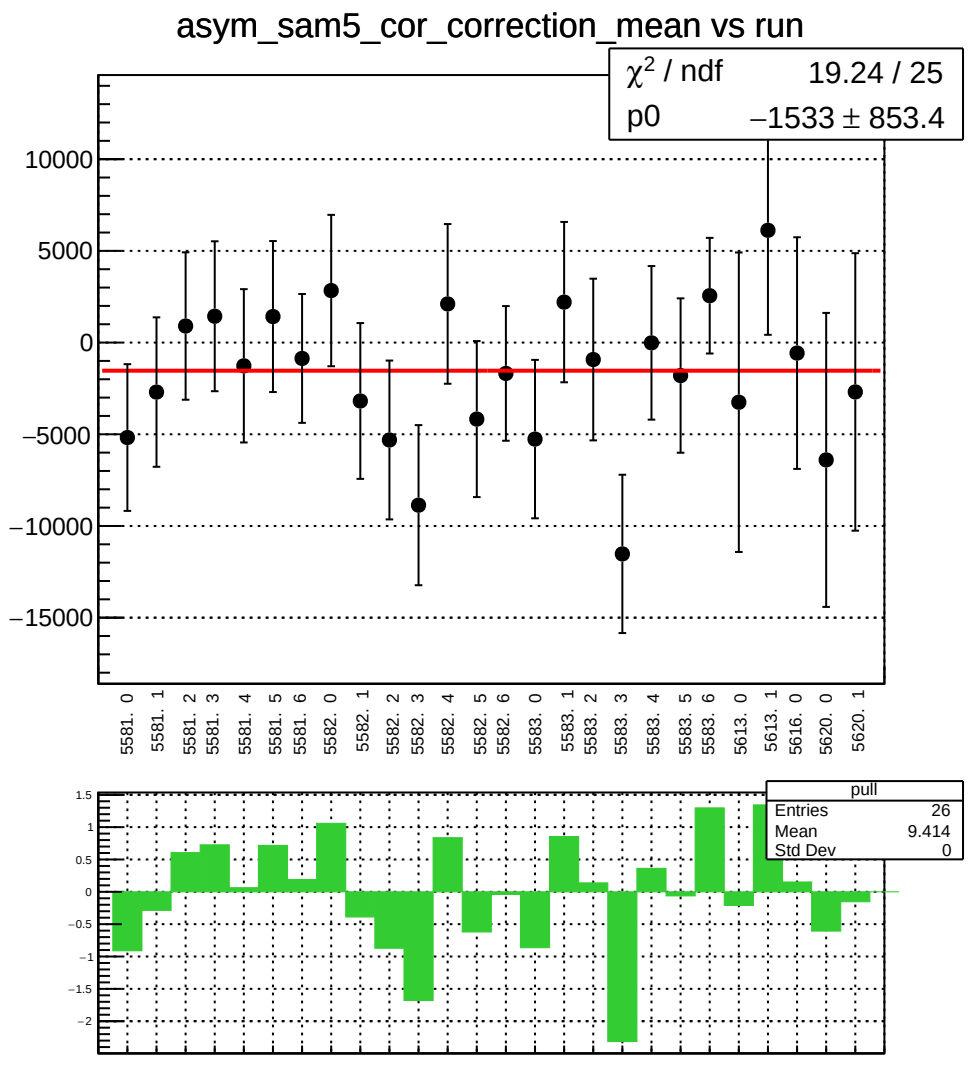

asym_sam5_reg_correction_mean vs run
χ² / ndf 24.12 / 32
p0 −1772 ± 847.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 30.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

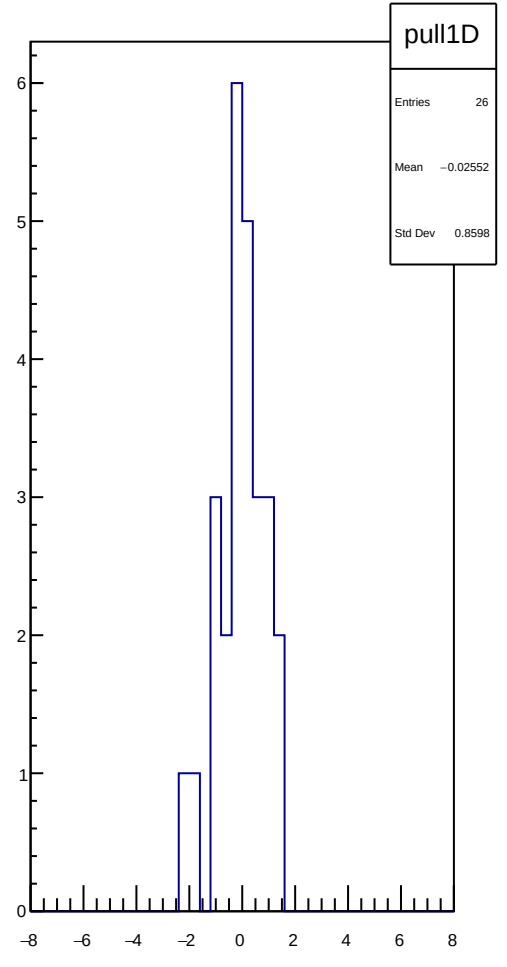

pull1D
Entries 33
Mean −0.09464
Std Dev 0.8496
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

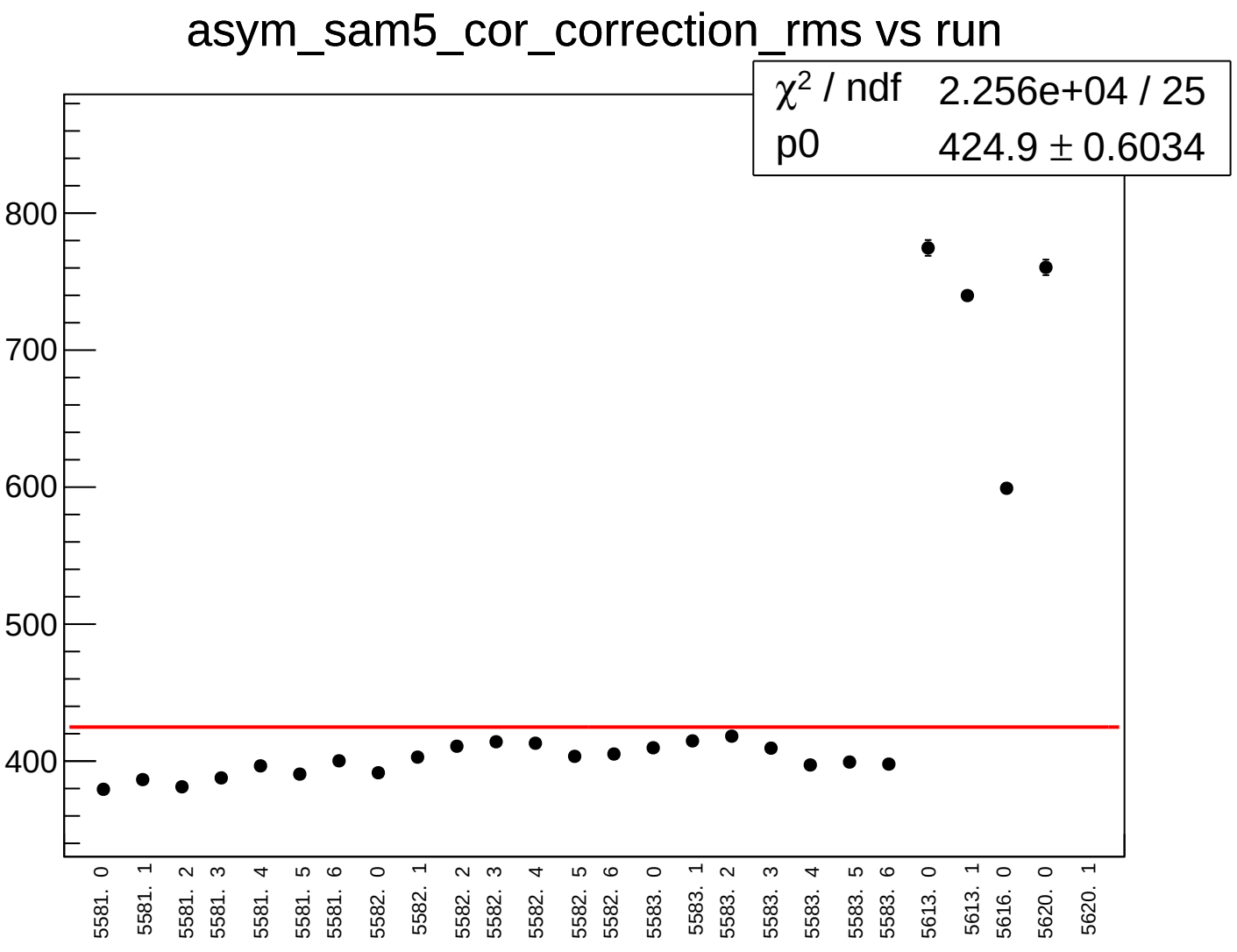

asym_sam5_reg_correction_rms vs run
χ² / ndf 9.039e+04 / 32
p0 449.3 ± 0.5995
1800
1600
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

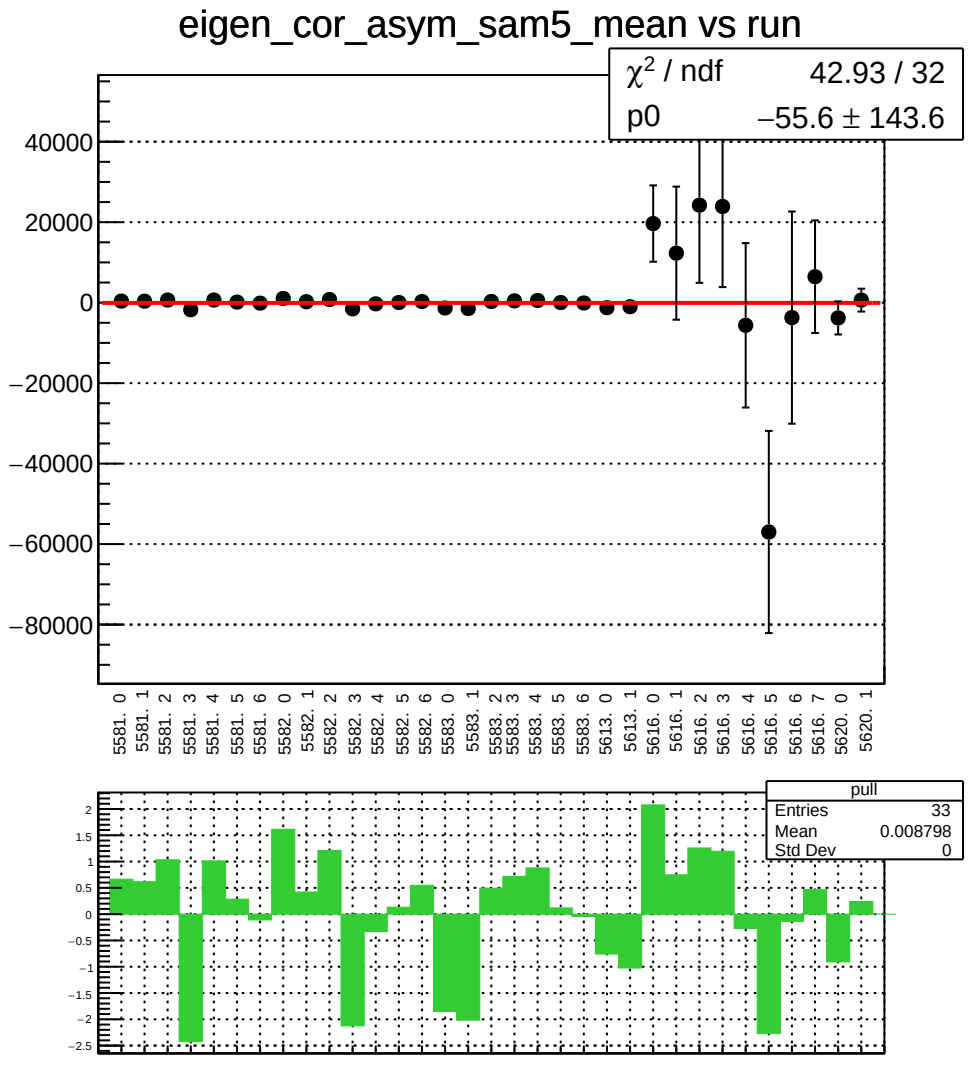

cor_asym_sam5_mean vs run
χ² / ndf 42.93 / 32
p0 −55.6 ± 143.6
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 0.008798
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.04443
Std Dev 1.14
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

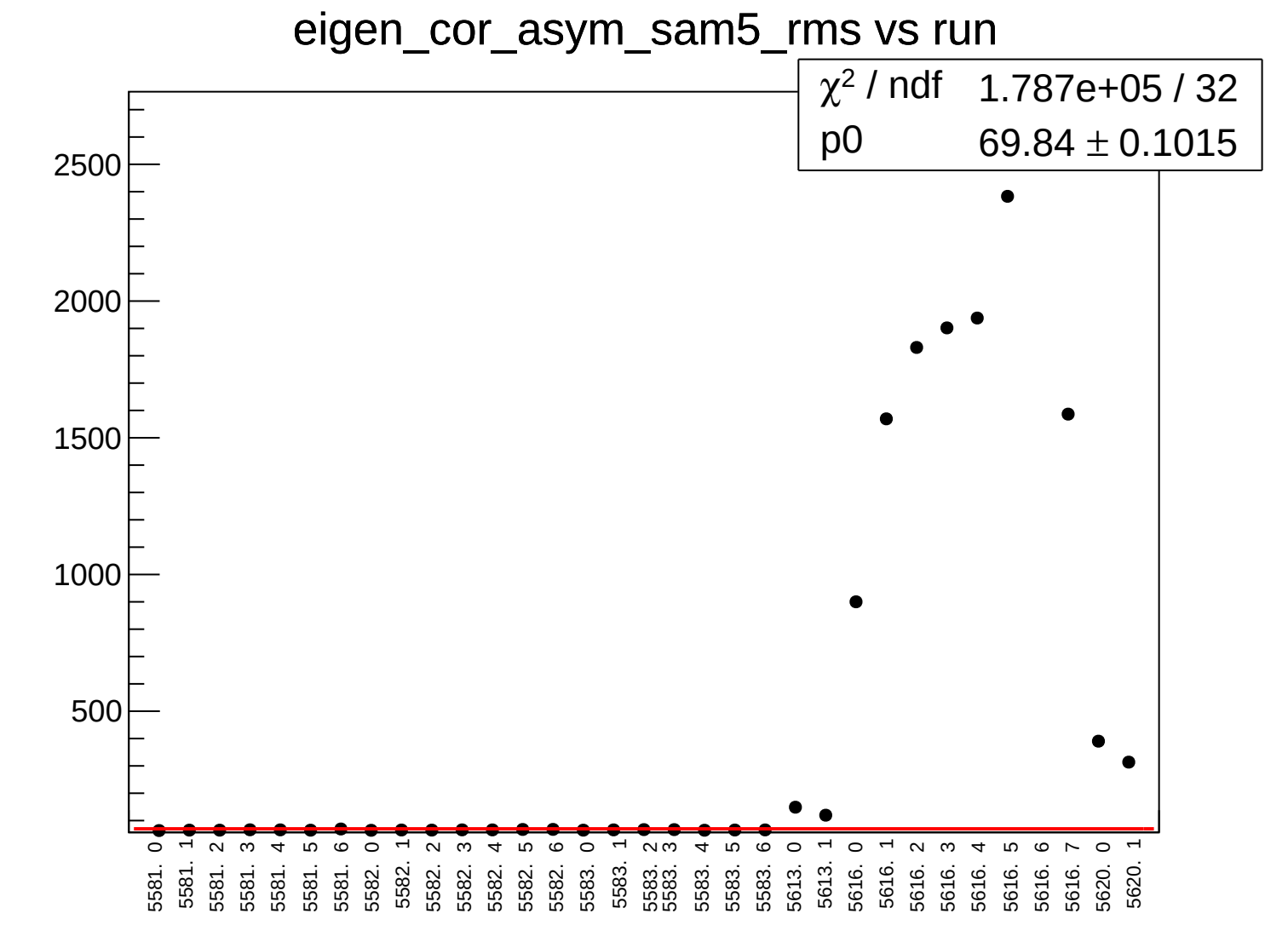

cor_asym_sam5_rms vs run
χ² / ndf 1.787e+05 / 32
p0 69.84 ± 0.1015
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

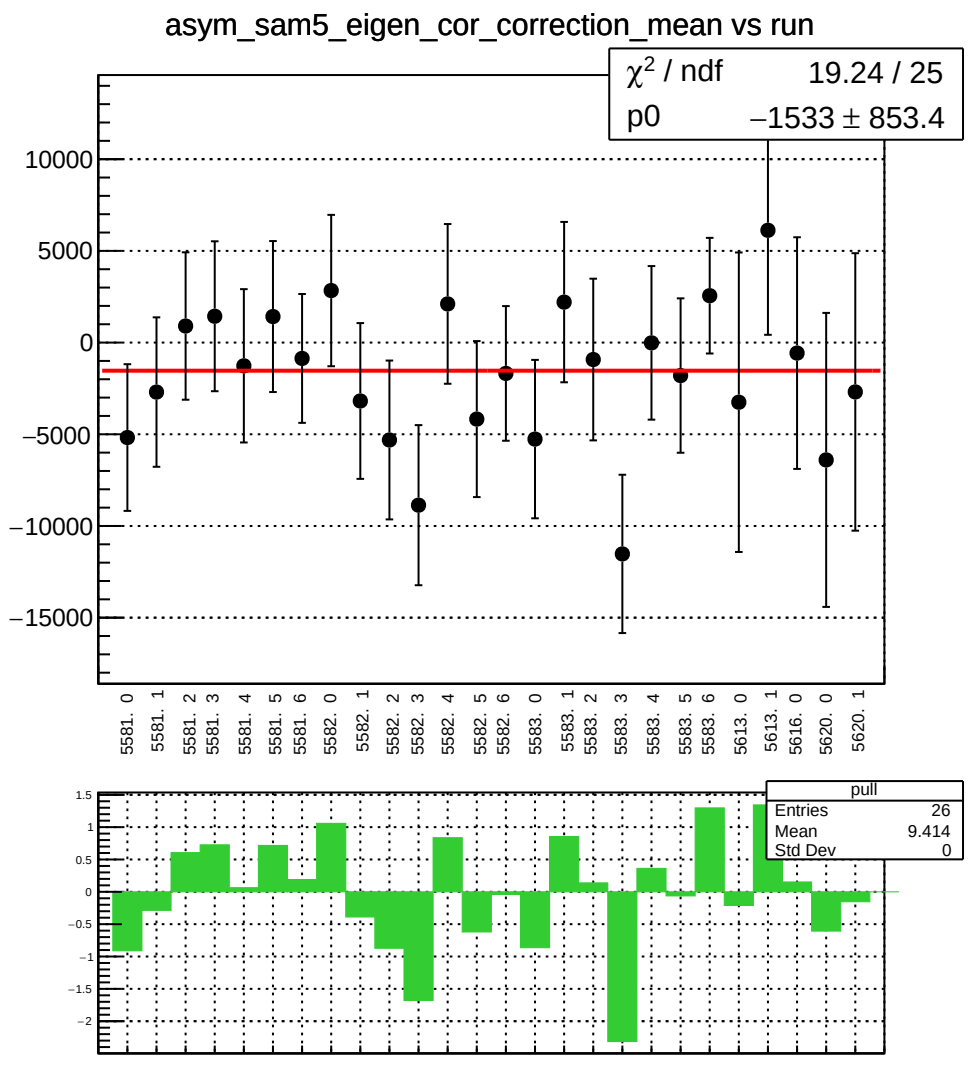

asym_sam5_cor_correction_mean vs run
χ² / ndf 19.24 / 25
p0 −1533 ± 853.4
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 9.414
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

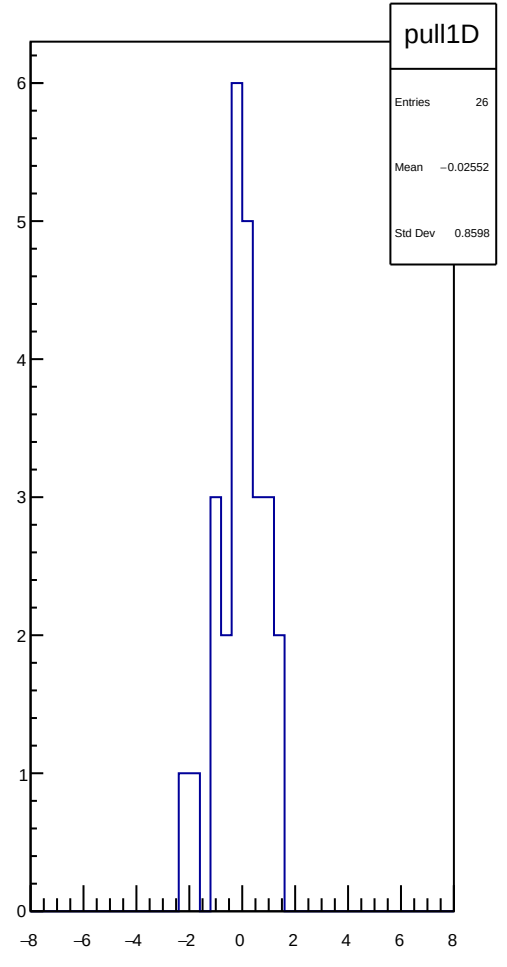

pull1D
Entries 26
Mean −0.02552
Std Dev 0.8598
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

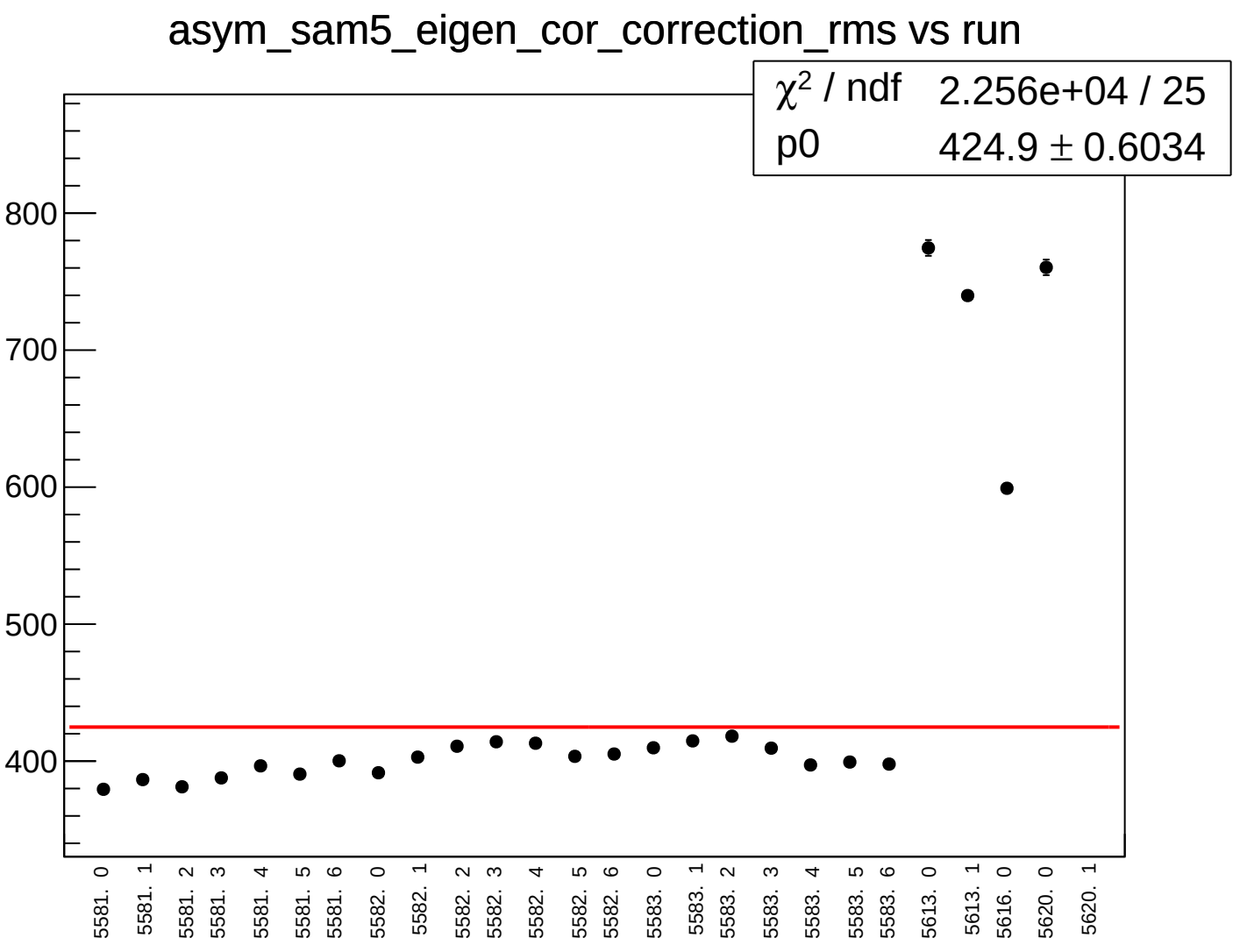

asym_sam5_cor_correction_rms vs run
χ² / ndf 2.256e+04 / 25
p0 424.9 ± 0.6034
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

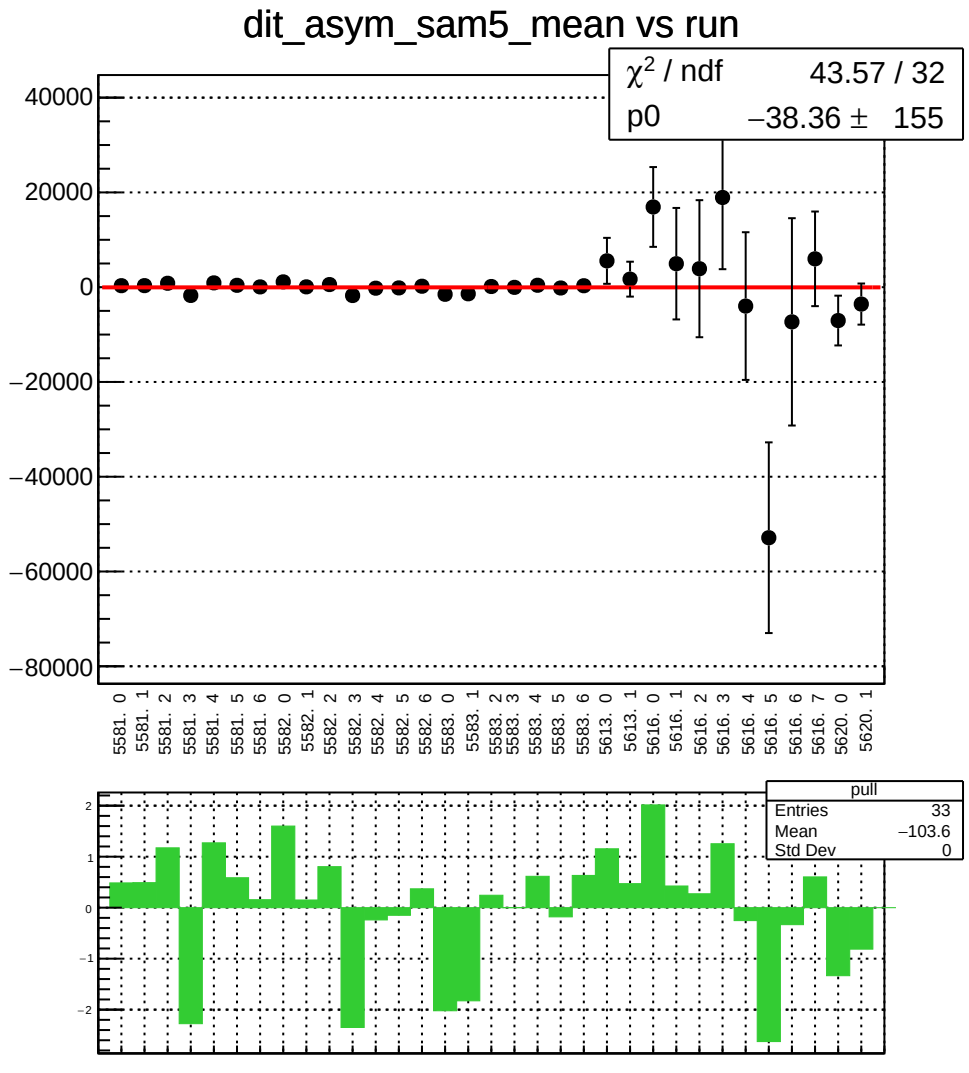

eigen_cor_asym_sam5_mean vs run
χ² / ndf 42.93 / 32
p0 −55.6 ± 143.6
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 0.008798
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.04443
Std Dev 1.14
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

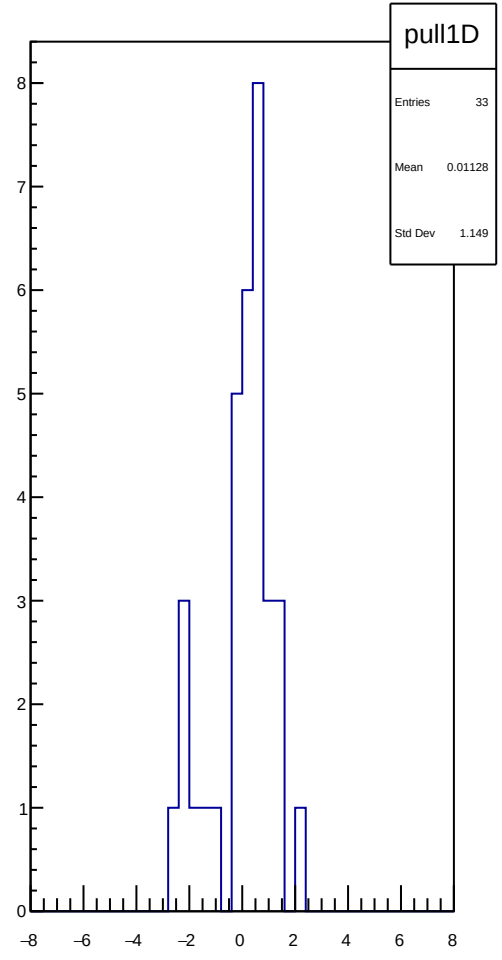

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1.787e+05 / 32
p0 69.84 ± 0.1015
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

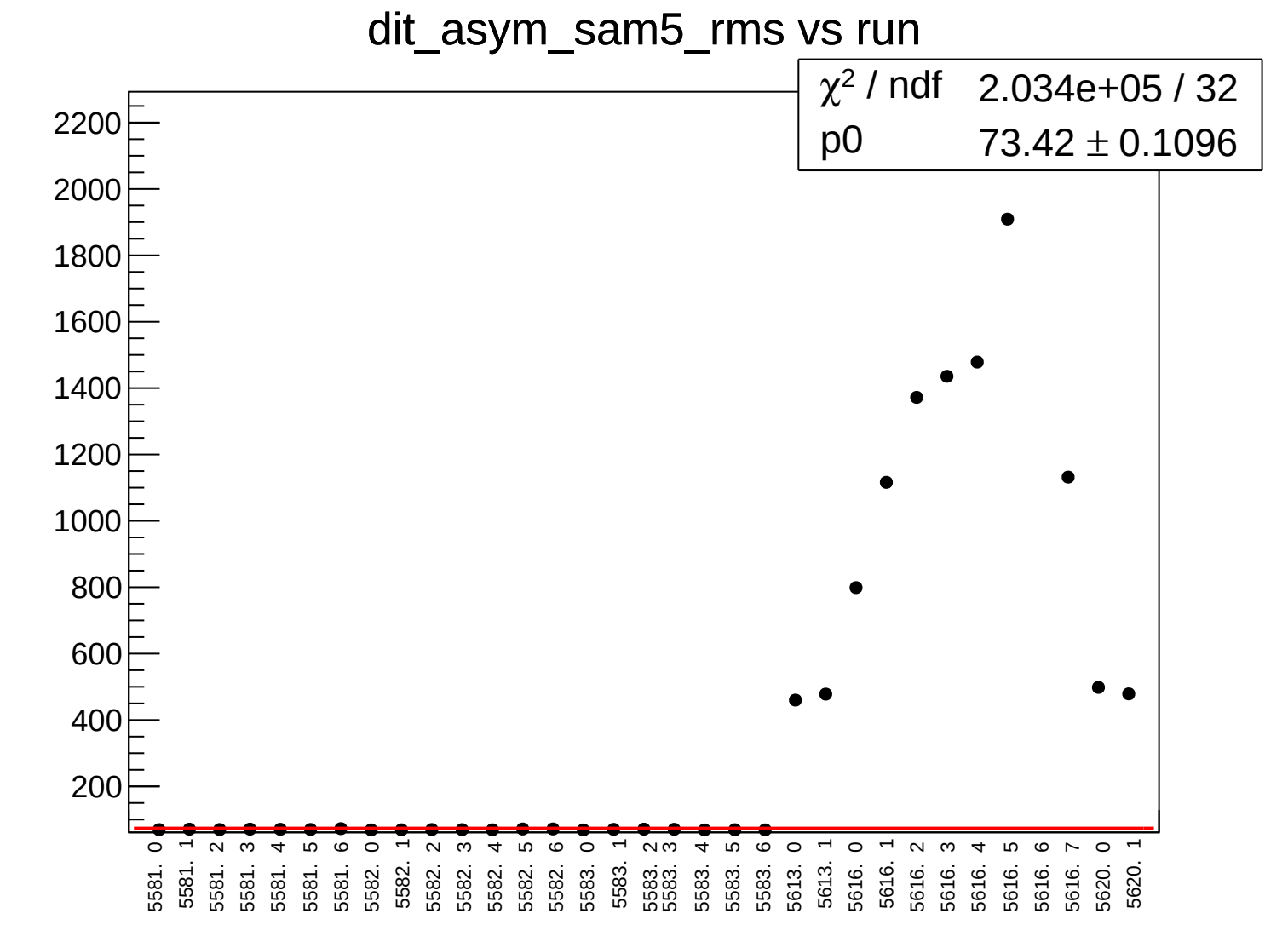

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 19.24 / 25
p0 −1533 ± 853.4
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 9.414
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

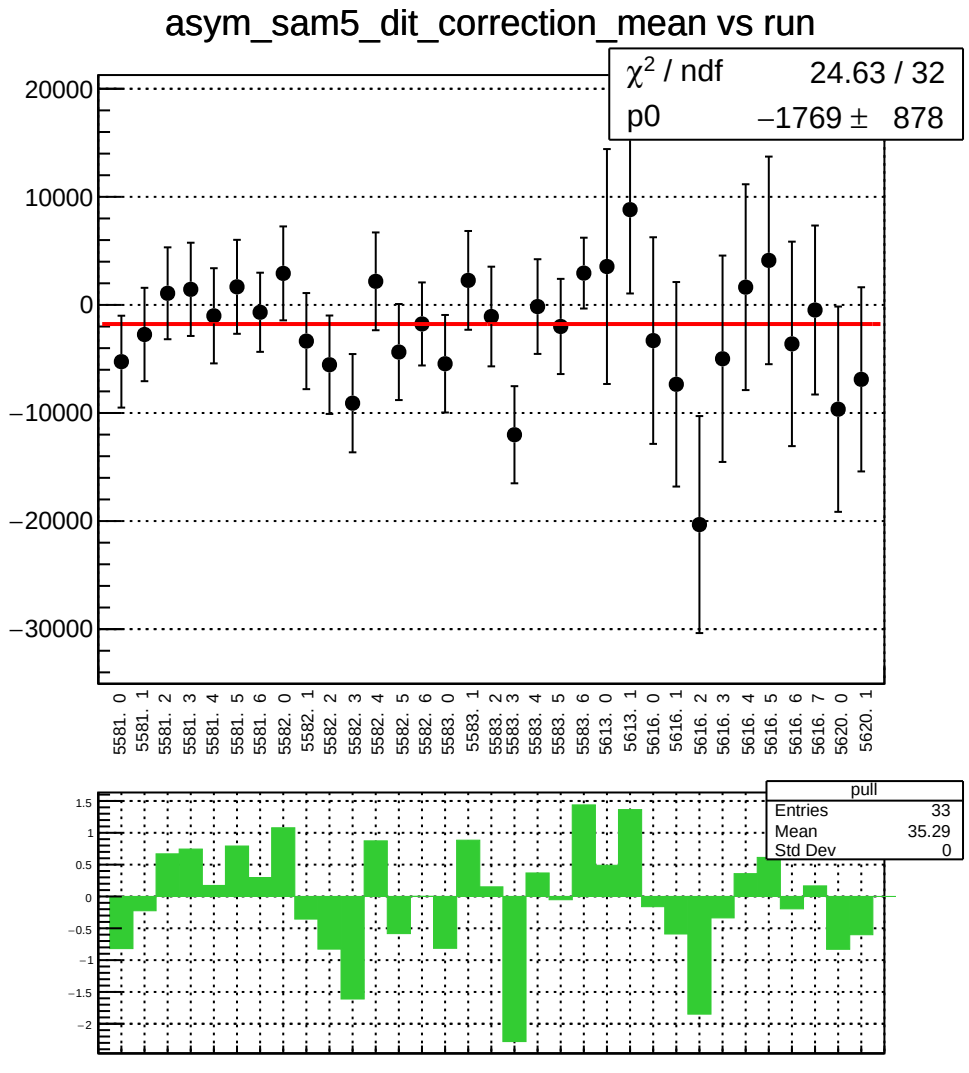

pull1D
Entries 26
Mean −0.02552
Std Dev 0.8598
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

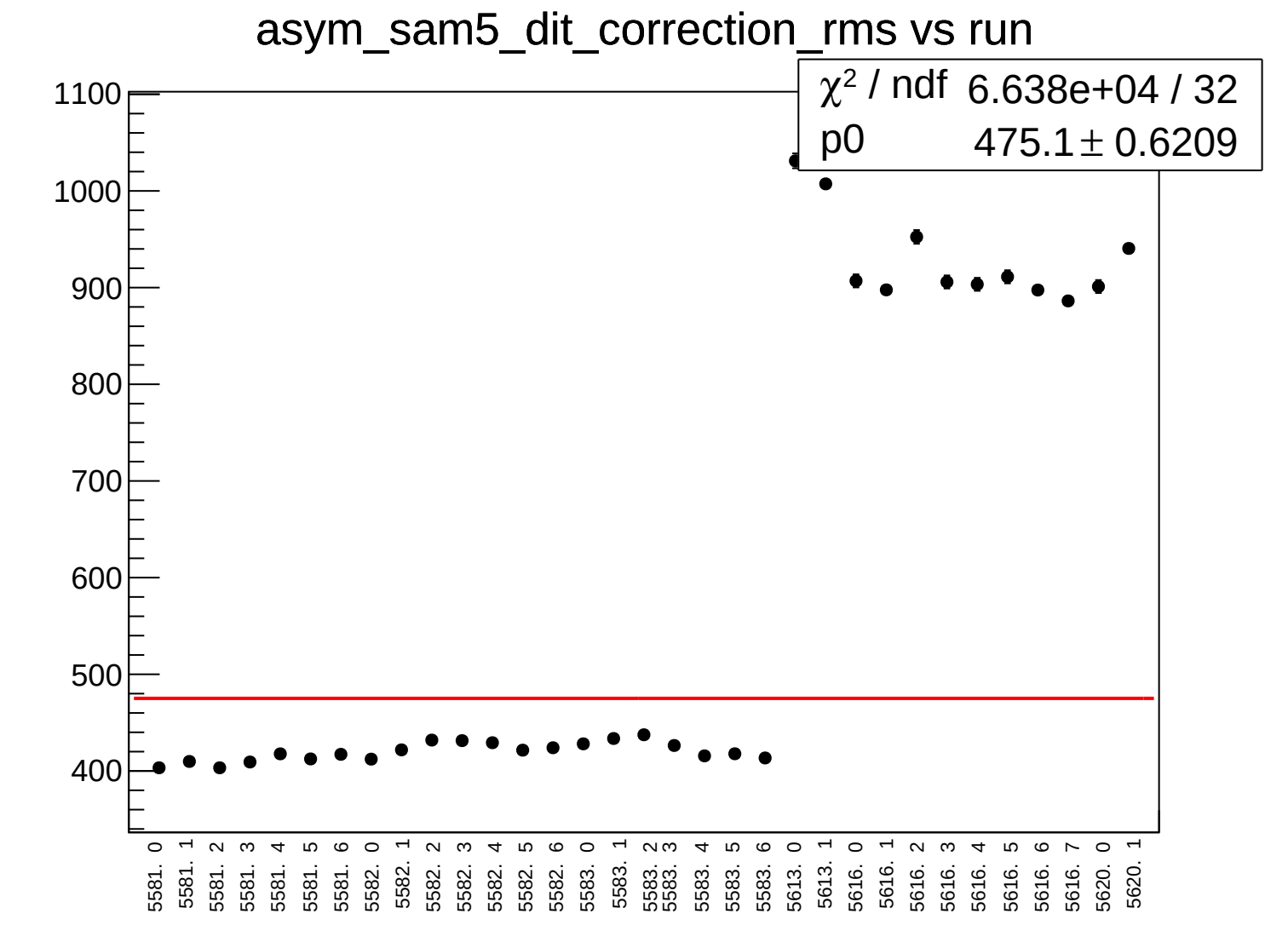

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 2.256e+04 / 25
p0 424.9 ± 0.6034
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

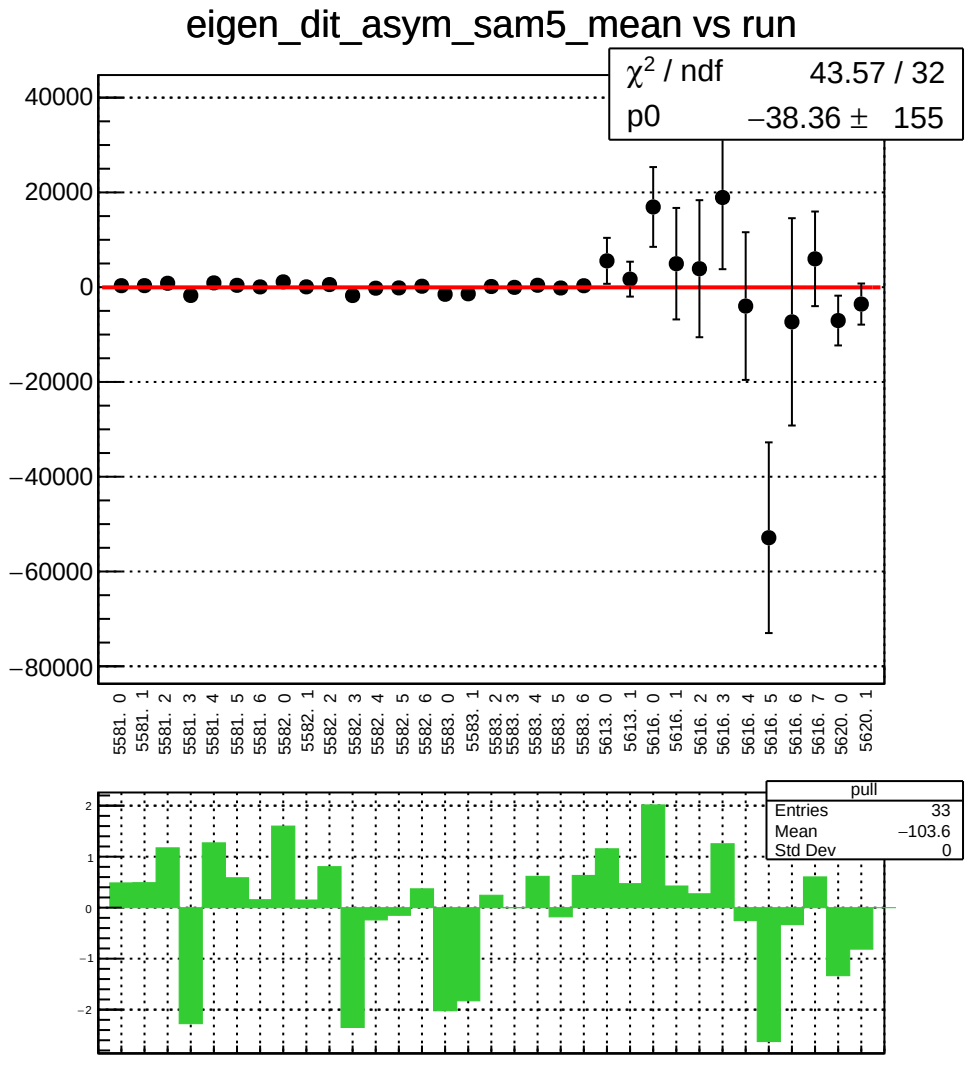

dit_asym_sam5_mean vs run
χ² / ndf 43.57 / 32
p0 −38.36 ± 155
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −103.6
Std Dev 0
2
1
0
−1
−2

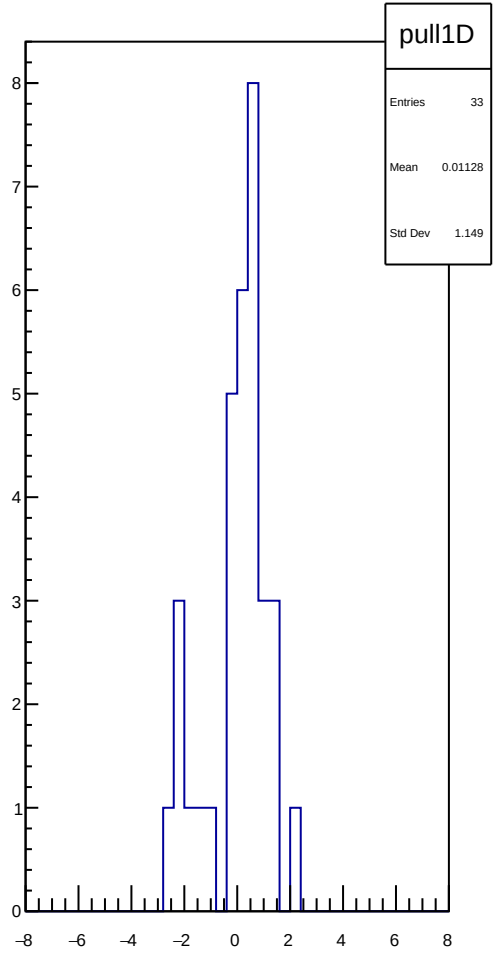

pull1D
Entries 33
Mean 0.01128
Std Dev 1.149
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

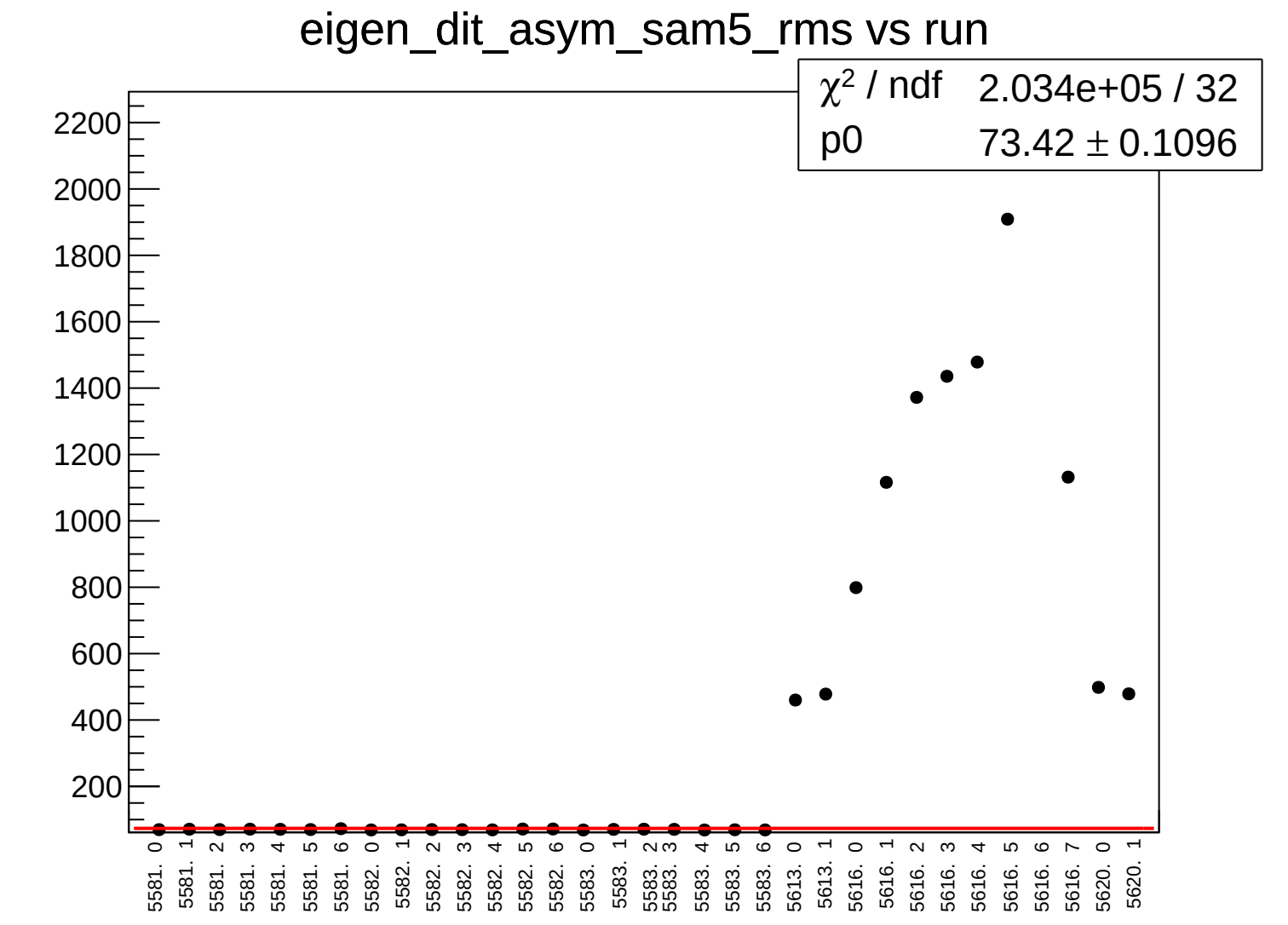

dit_asym_sam5_rms vs run
χ² / ndf 2.034e+05 / 32
p0 73.42 ± 0.1096
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

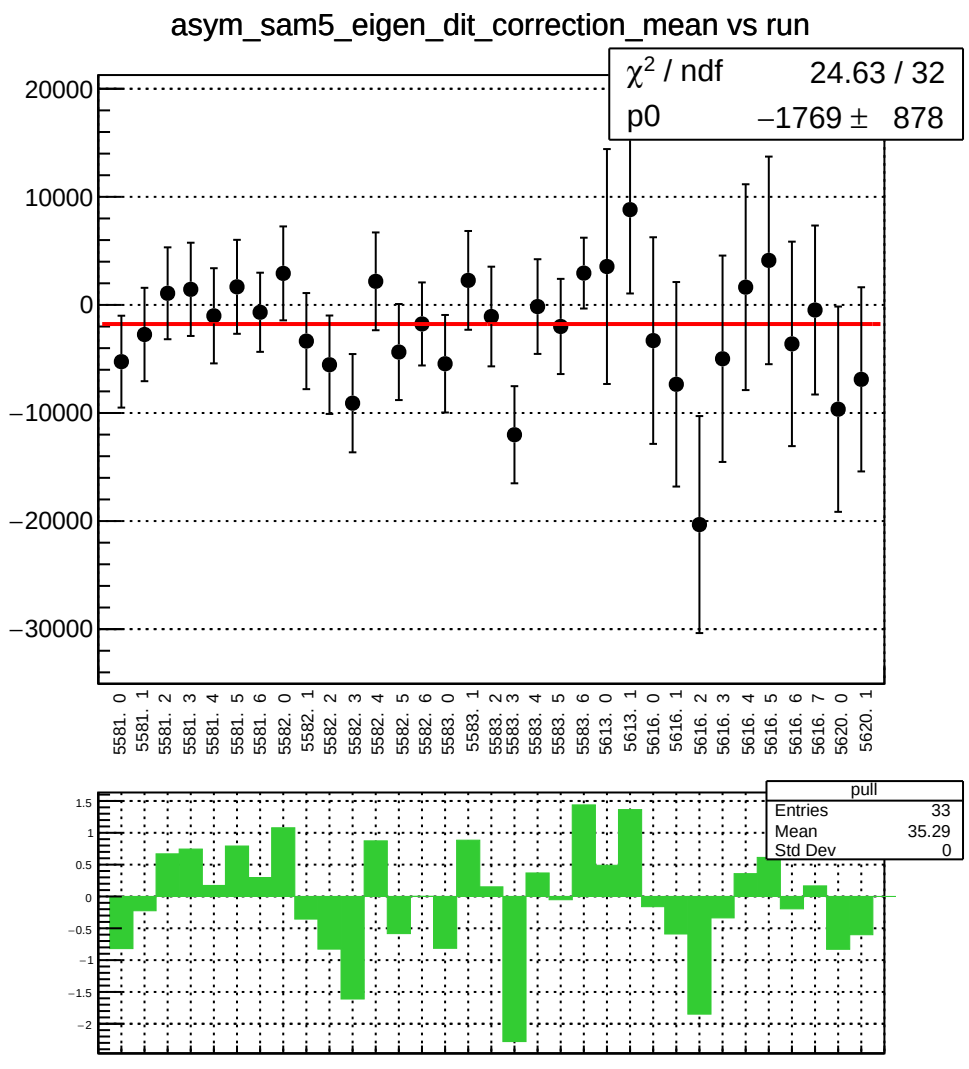

asym_sam5_dit_correction_mean vs run
χ² / ndf 24.63 / 32
p0 −1769 ± 878
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.29
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.05024
Std Dev 0.8624
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

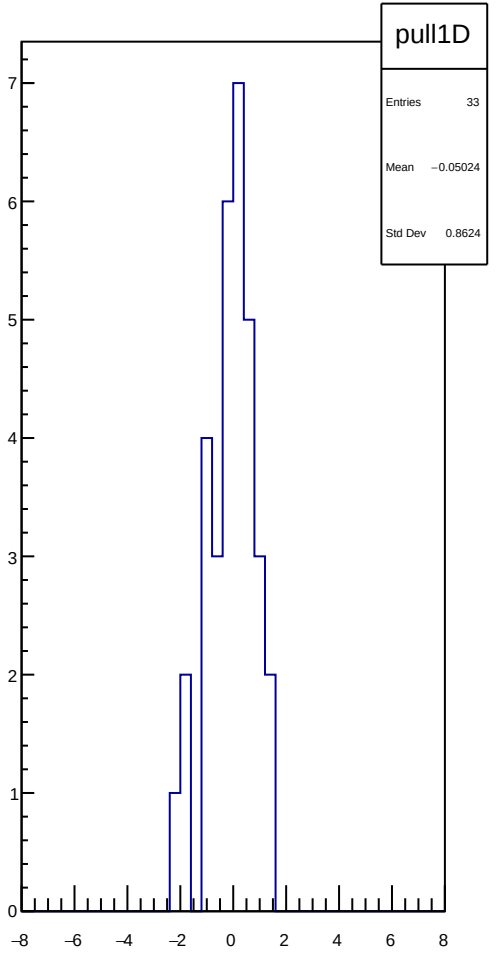

asym_sam5_dit_correction_rms vs run
χ² / ndf 6.638e+04 / 32
p0 475.1 ± 0.6209
1100
1000
900
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

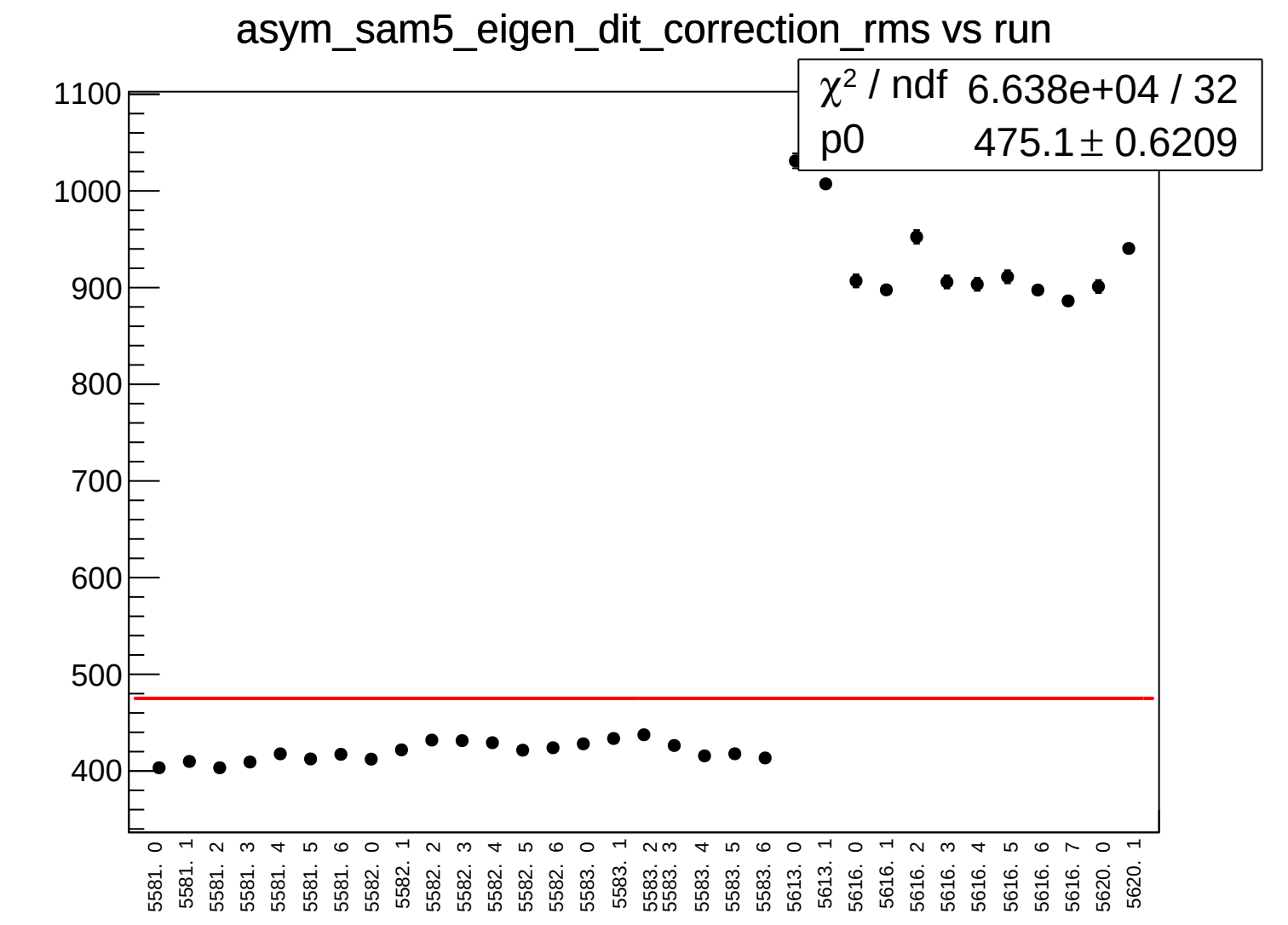

eigen_dit_asym_sam5_mean vs run
χ² / ndf 43.57 / 32
p0 −38.36 ± 155
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −103.6
Std Dev 0
2
1
0
−1
−2

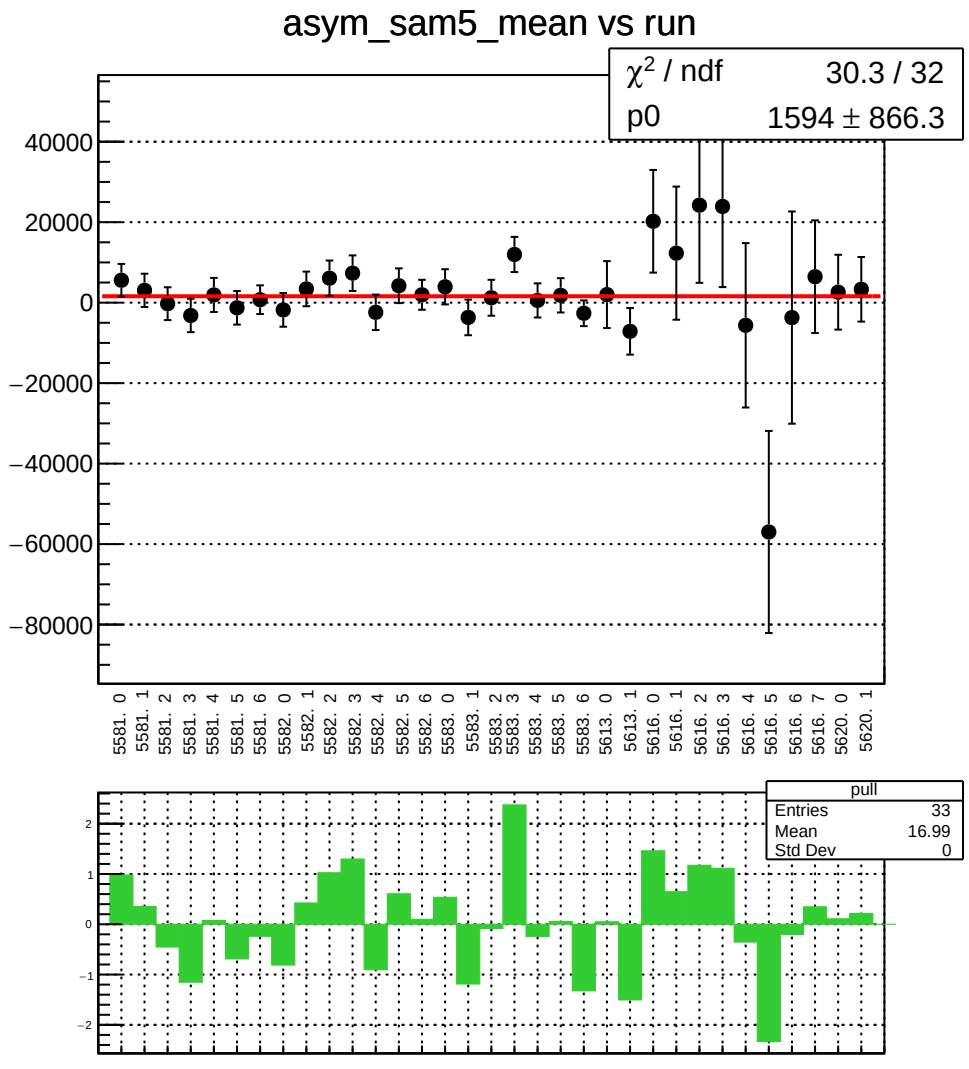

pull1D
Entries 33
Mean 0.01128
Std Dev 1.149
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

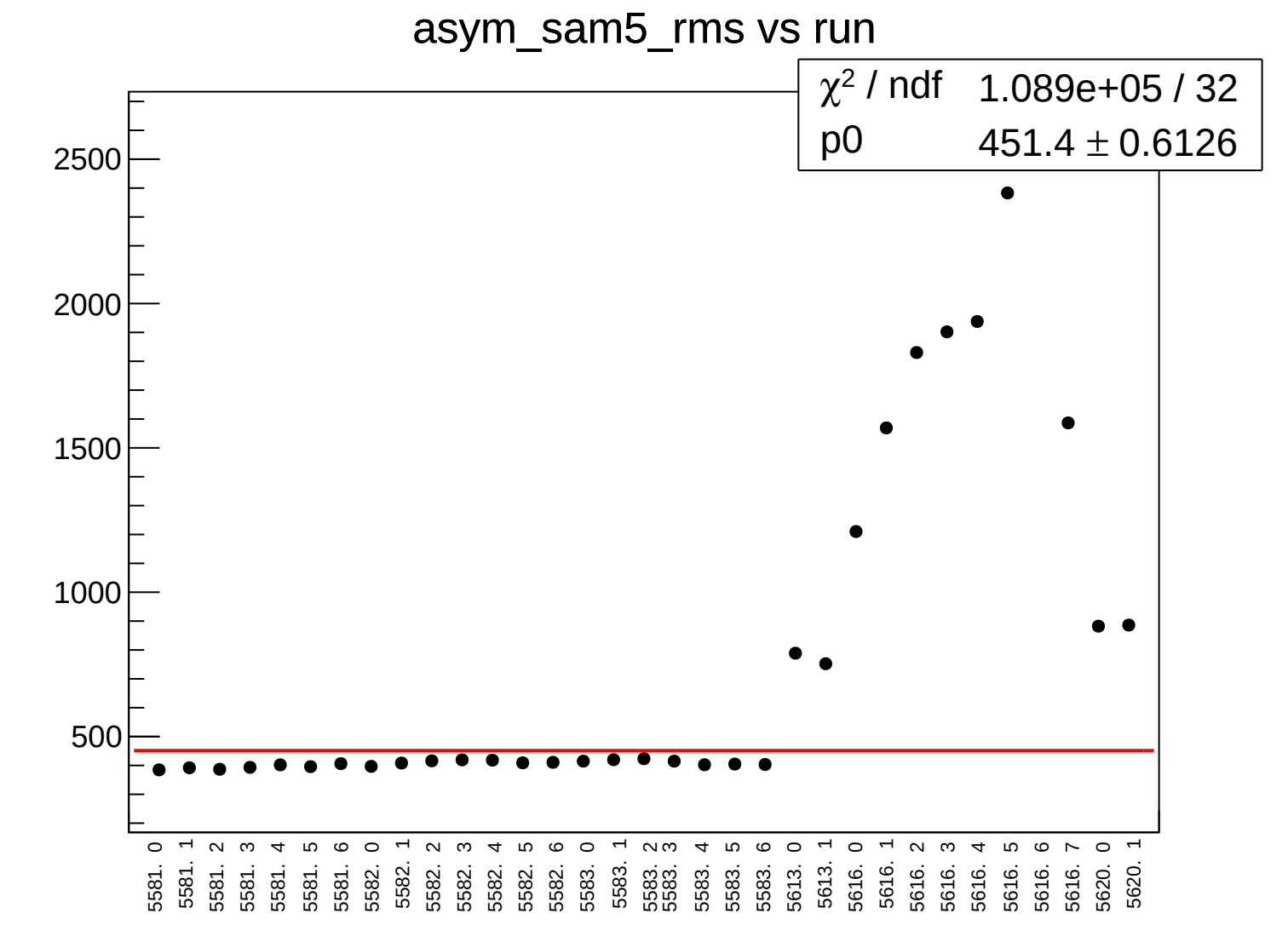

eigen_dit_asym_sam5_rms vs run
χ^2 / ndf 2.034e+05 / 32
p0 73.42 ± 0.1096
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

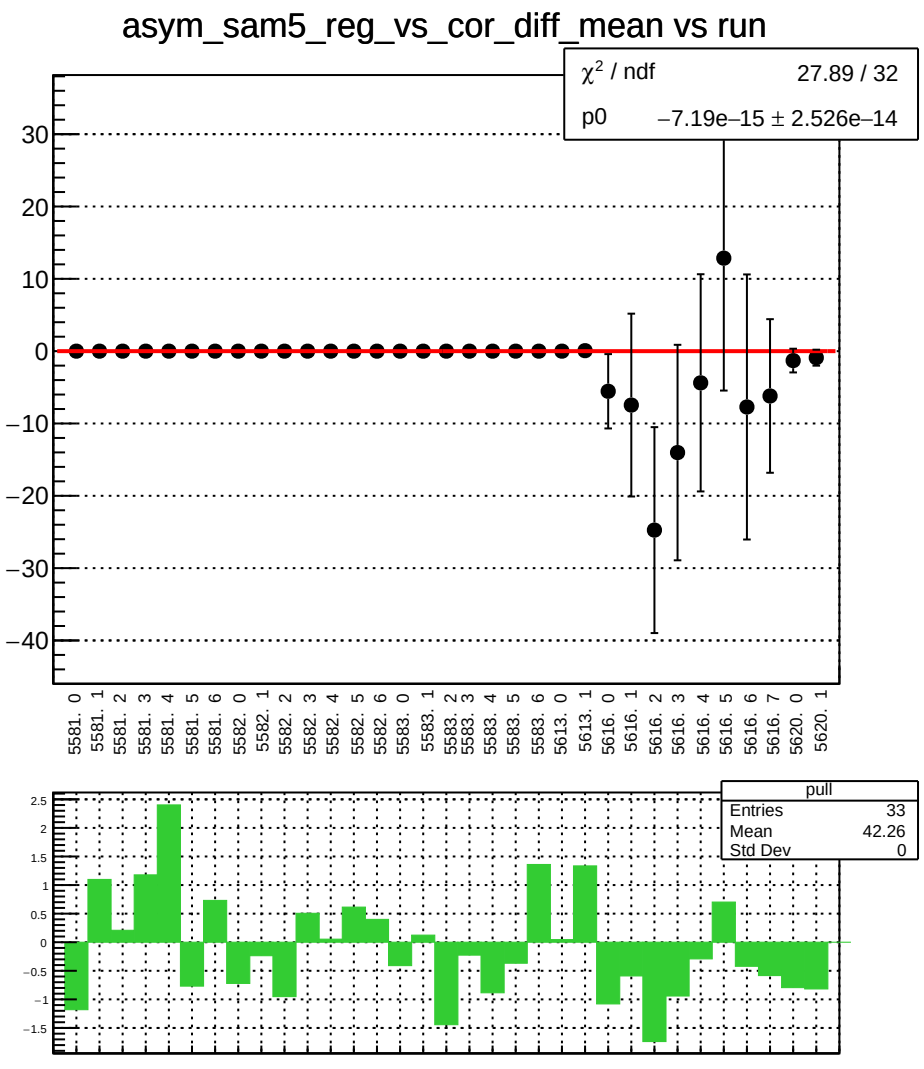

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 24.63 / 32
p0 −1769 ± 878
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.29
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

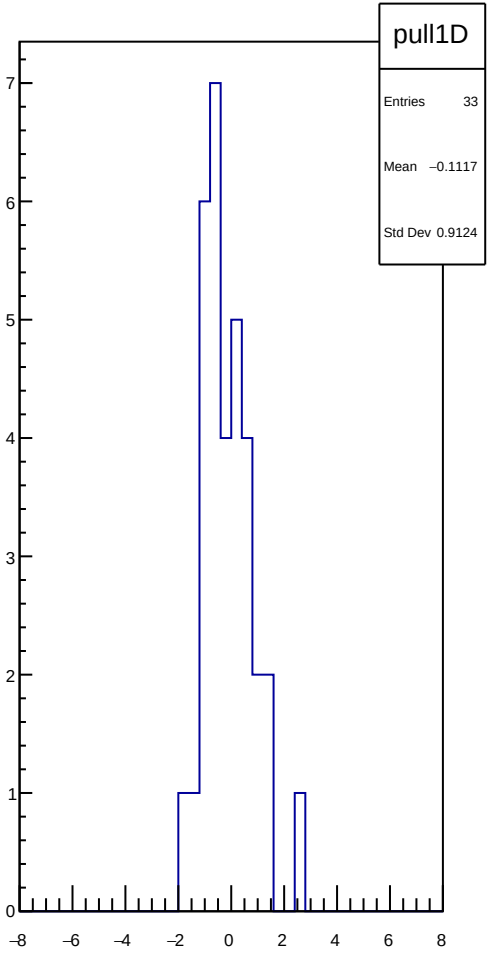

pull1D
Entries 33
Mean −0.05024
Std Dev 0.8624
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

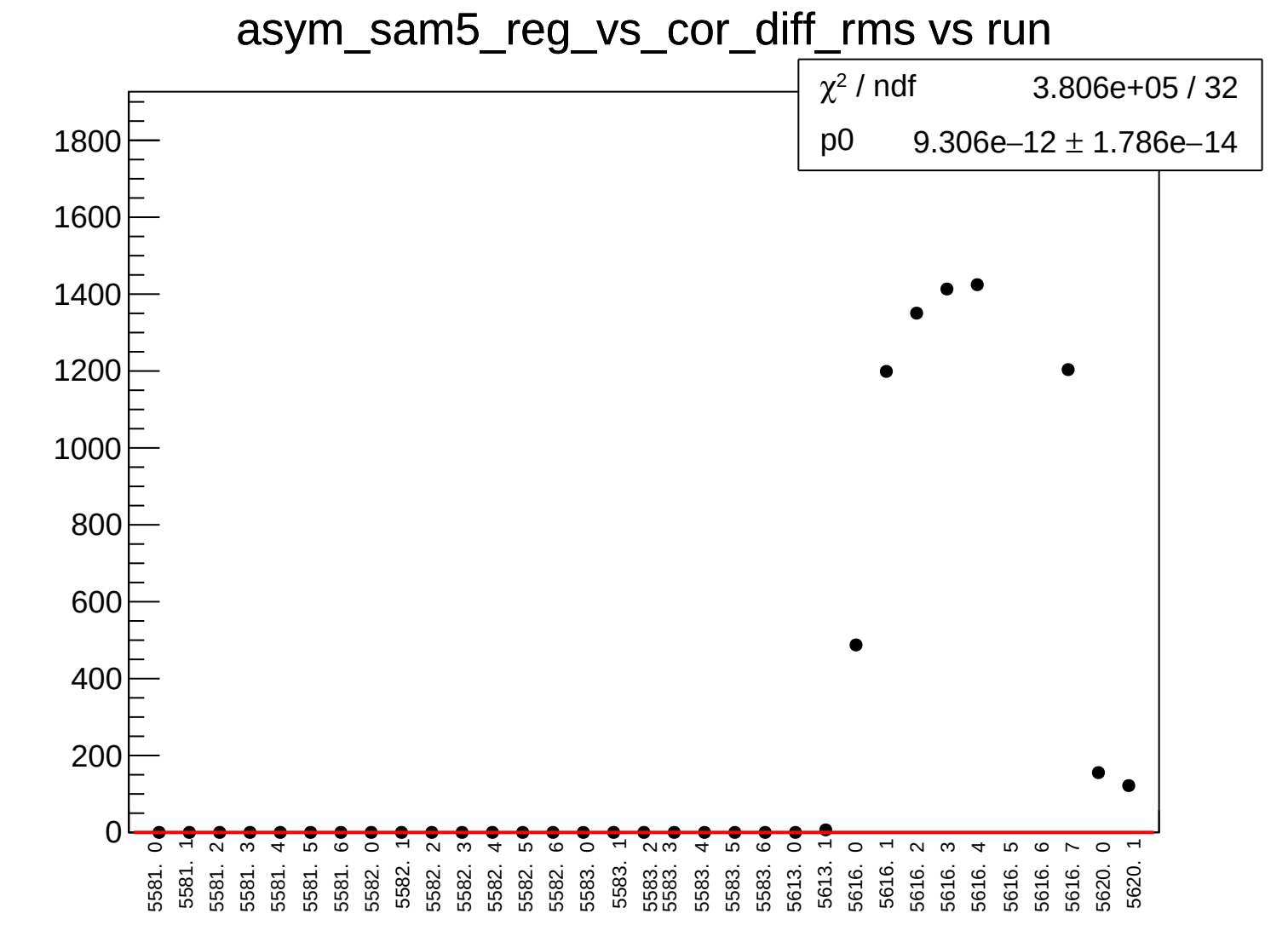

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 6.638e+04 / 32
p0 475.1 ± 0.6209
1100
1000
900
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

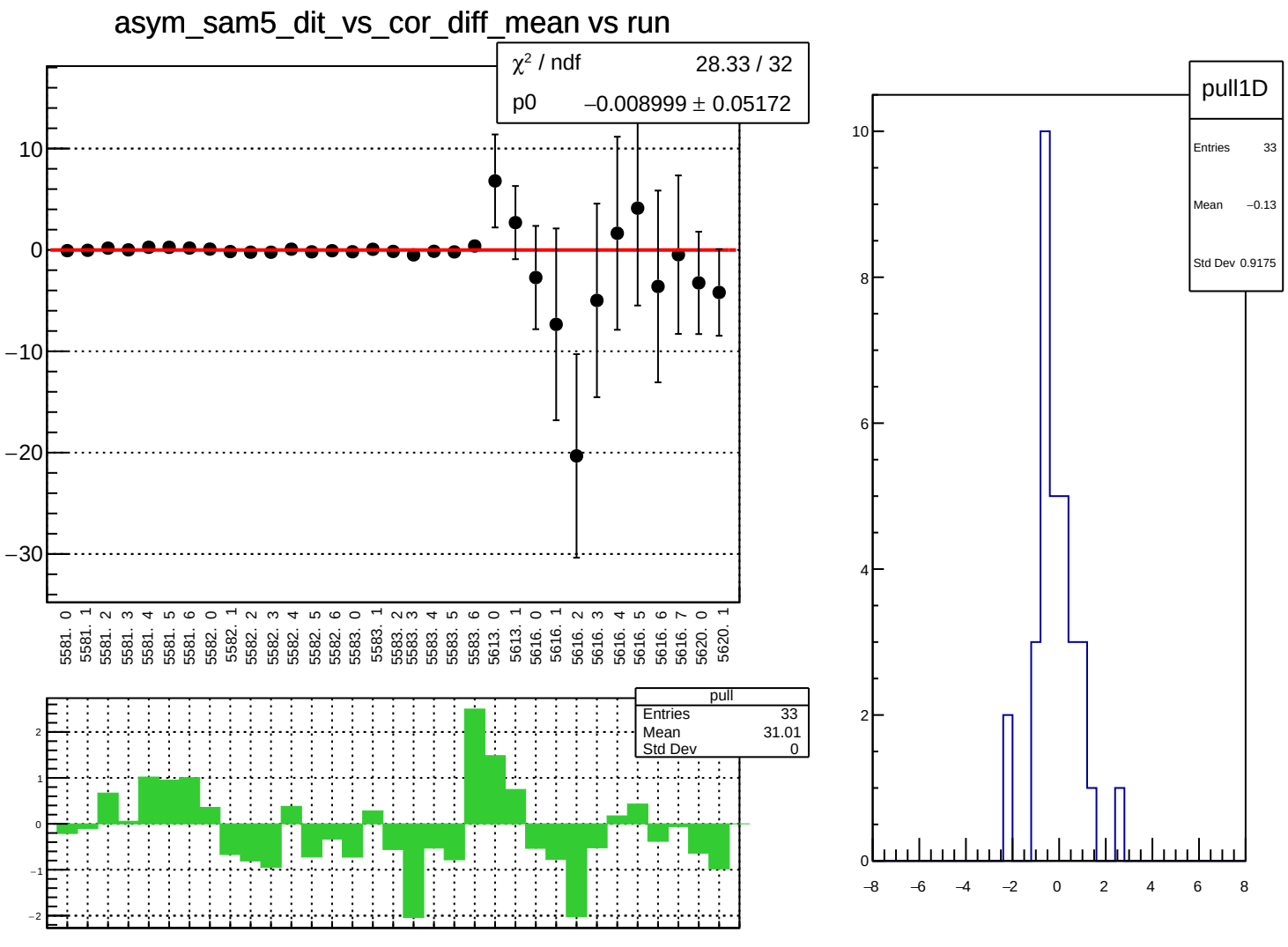

asym_sam5_mean vs run
χ² / ndf 30.3 / 32
p0 1594 ± 866.3
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.99
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.04441
Std Dev 0.9571
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

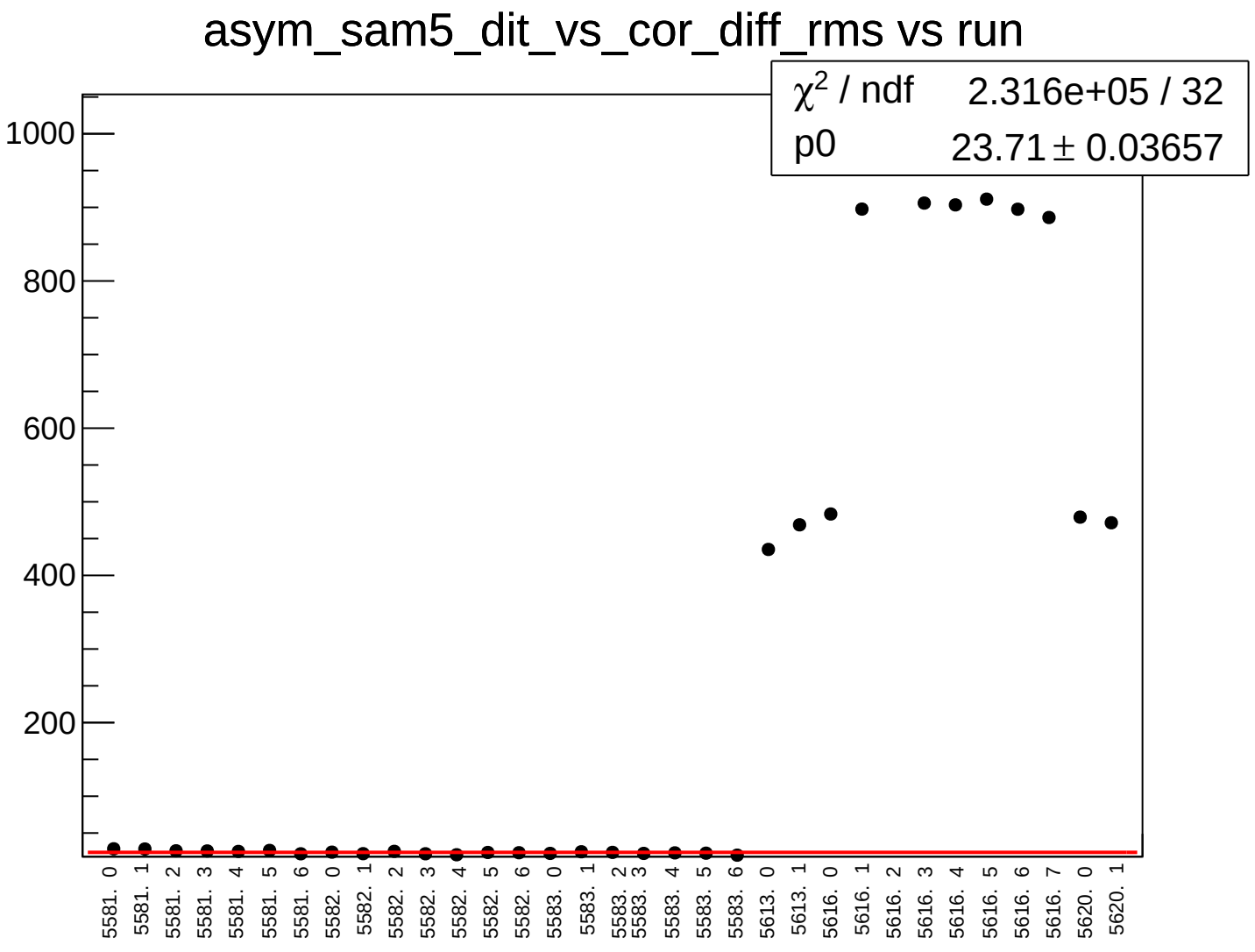

asym_sam5_rms vs run
χ² / ndf 1.089e+05 / 32
p0 451.4 ± 0.6126
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

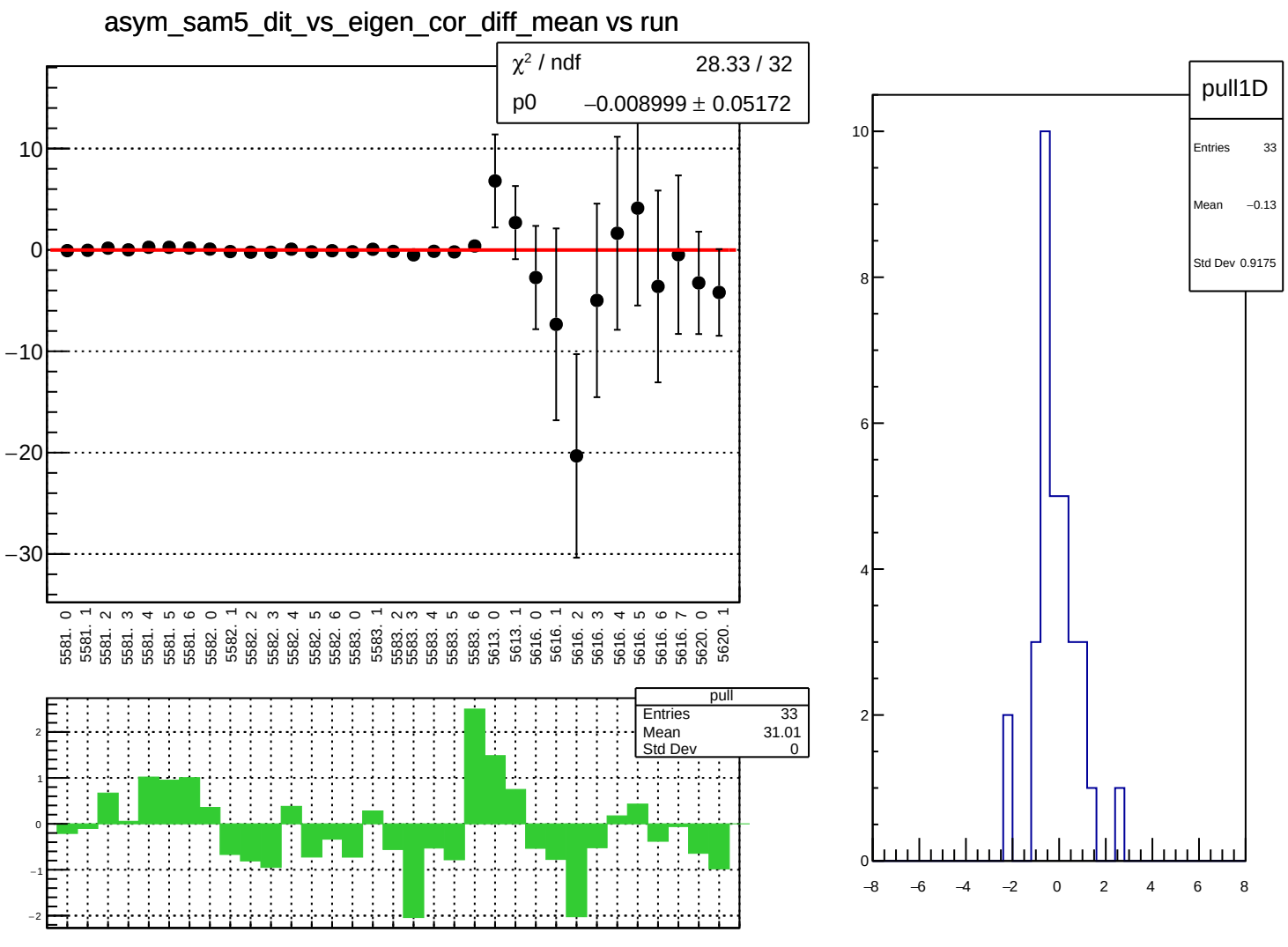

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 27.89 / 32
p0 −7.19e−15 ± 2.526e−14
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 42.26
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

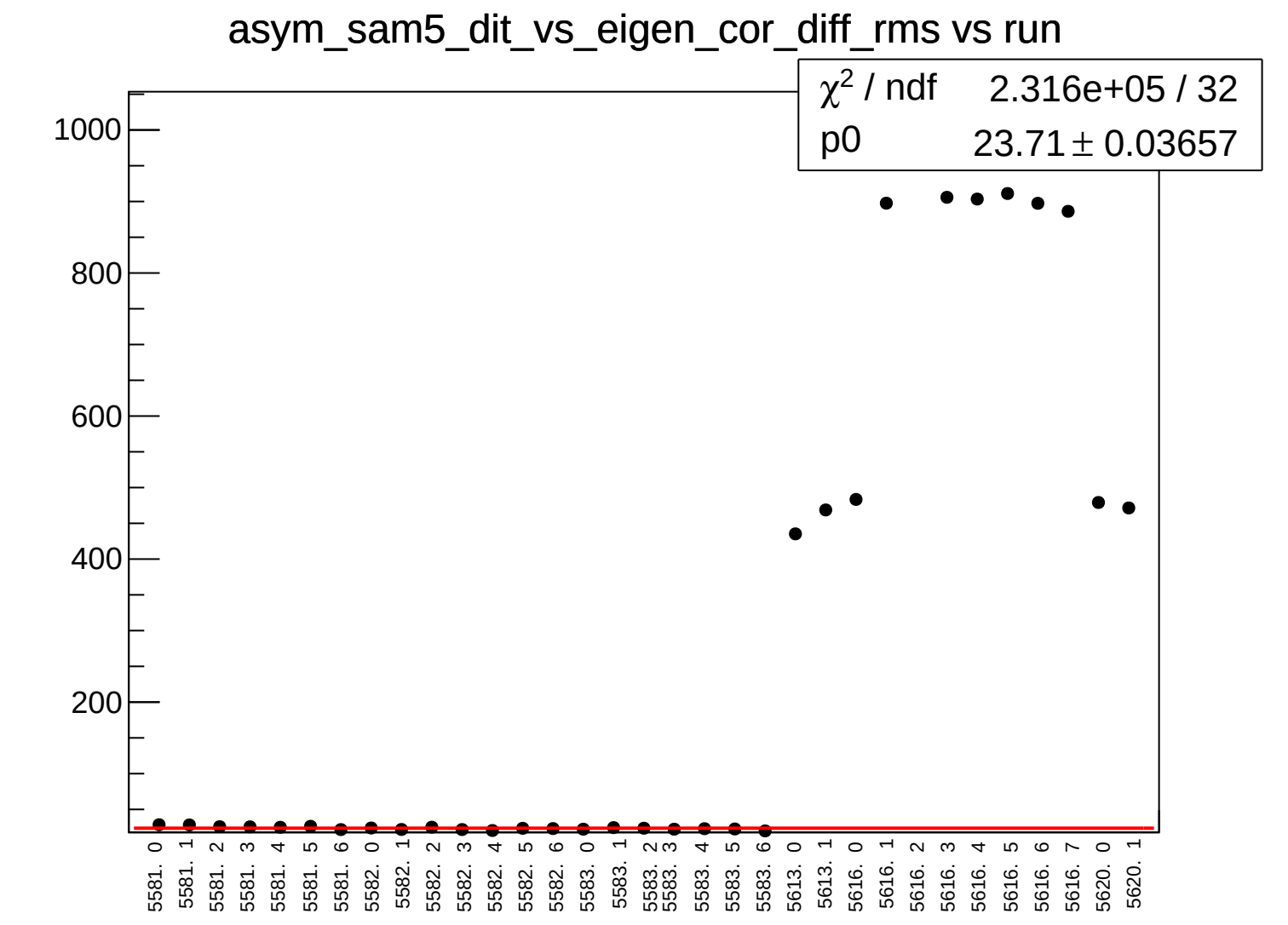

pull1D
Entries 33
Mean −0.1117
Std Dev 0.9124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

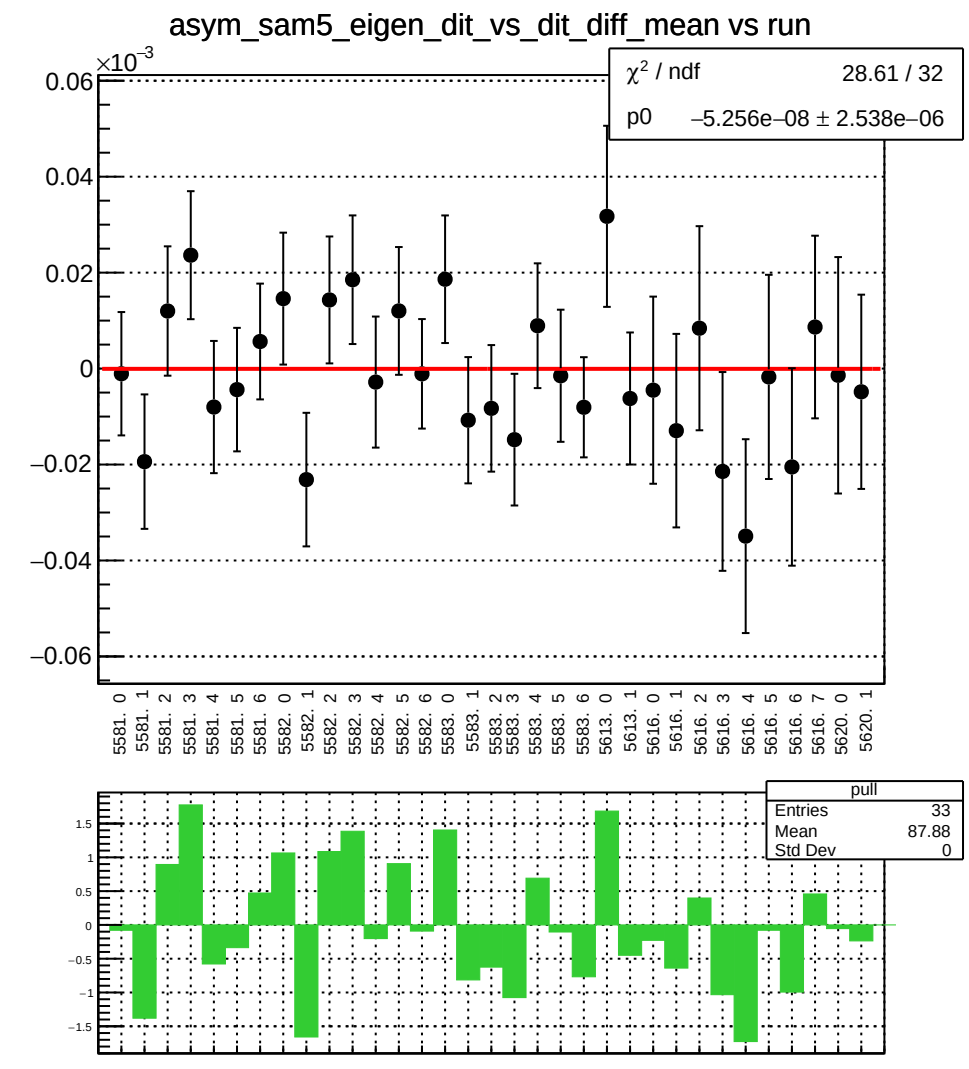

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 3.806e+05 / 32
p0 9.306e−12 ± 1.786e−14
1800
1600
1400
1200
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

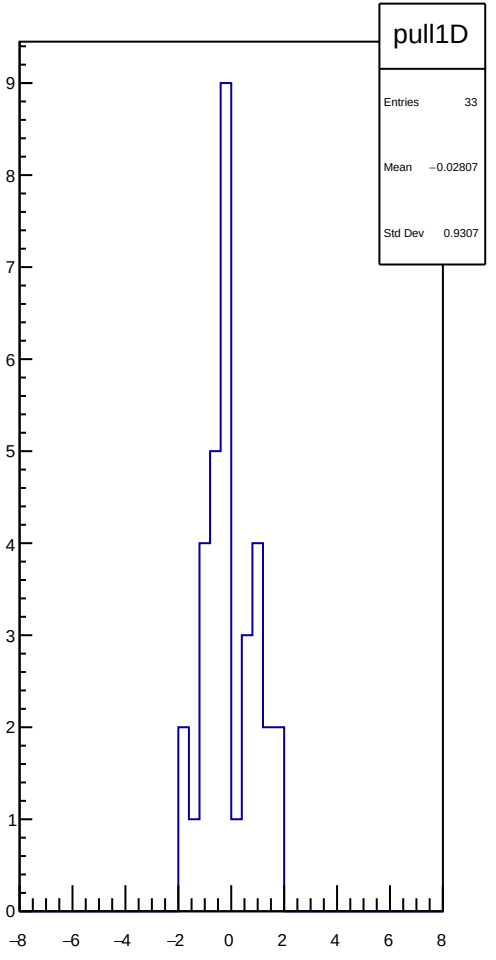

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 28.33 / 32
p0 −0.008999 ± 0.05172
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.01
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.13
Std Dev 0.9175
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

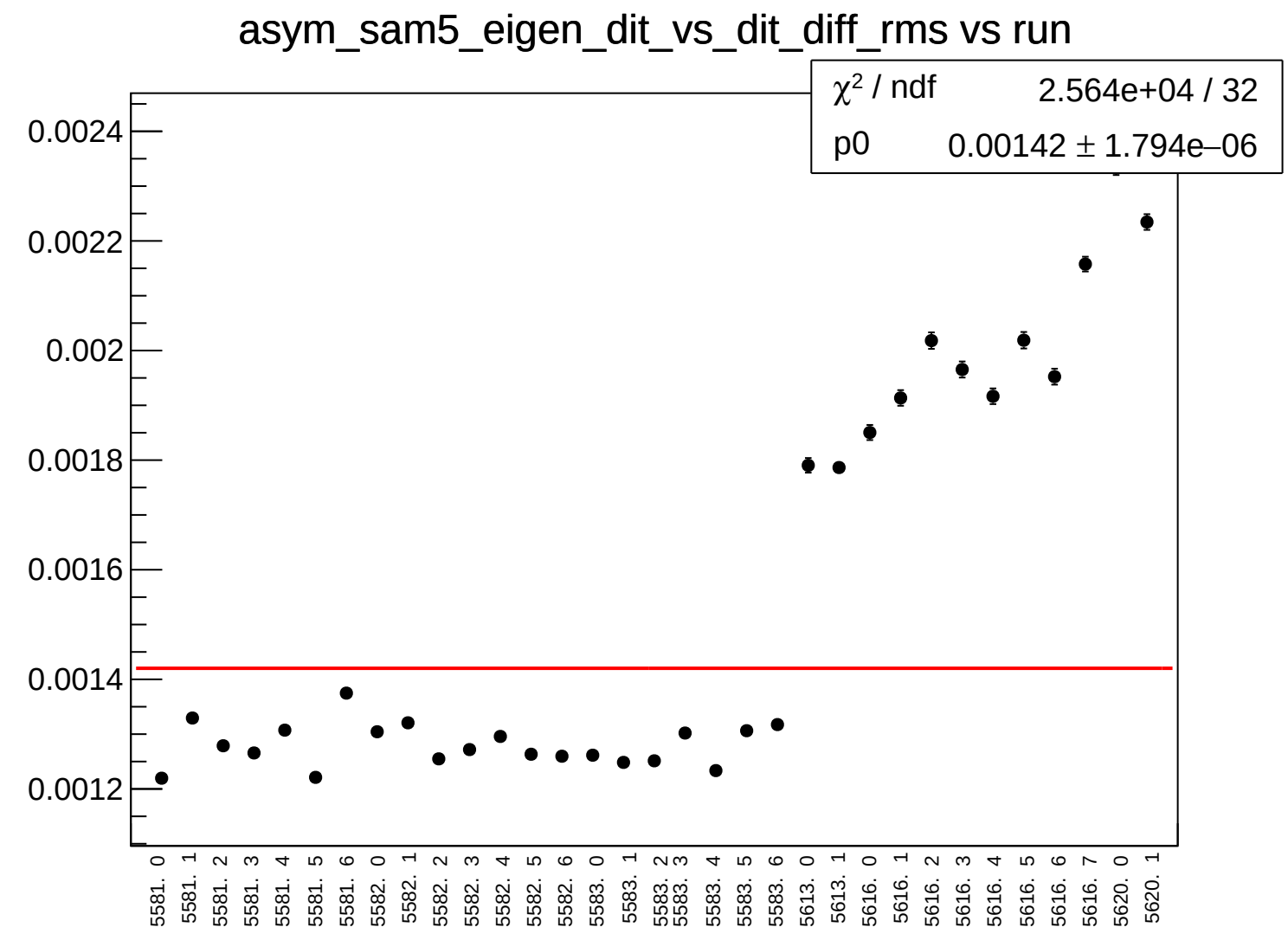

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 2.316e+05 / 32
p0 23.71 ± 0.03657
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

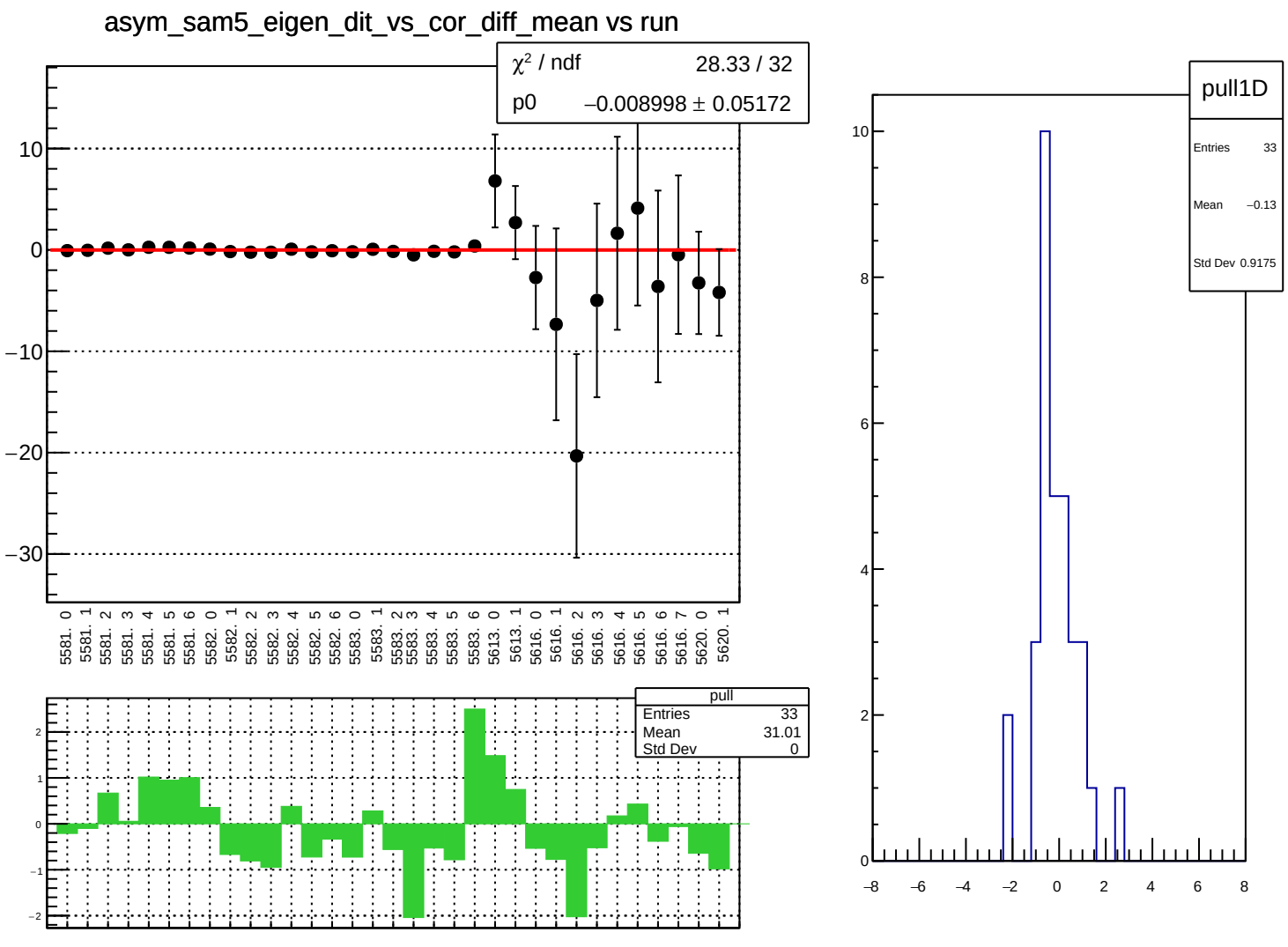

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.33 / 32
p0 −0.008999 ± 0.05172
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.01
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.13
Std Dev 0.9175
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

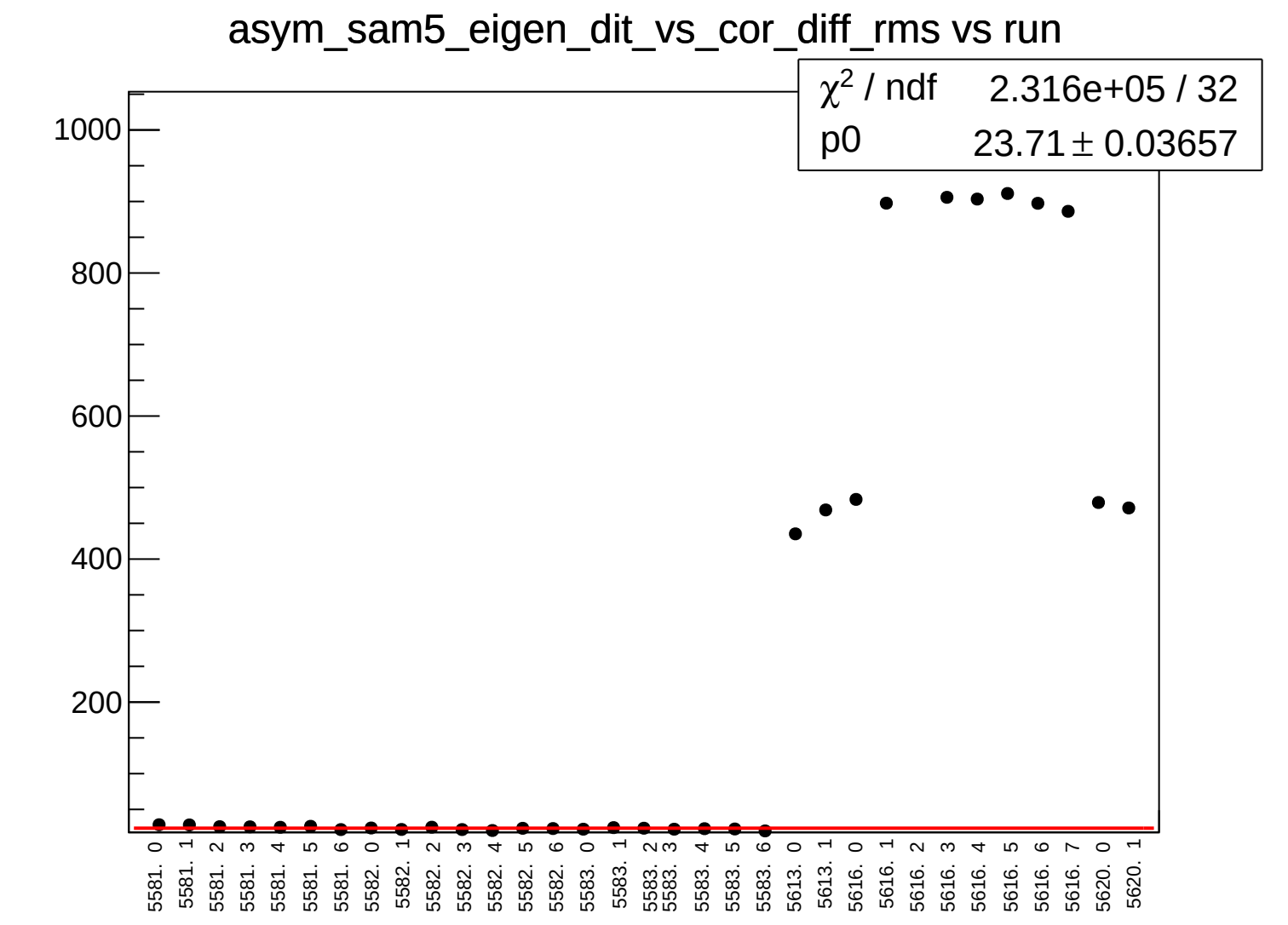

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.316e+05 / 32
p0 23.71 ± 0.03657
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

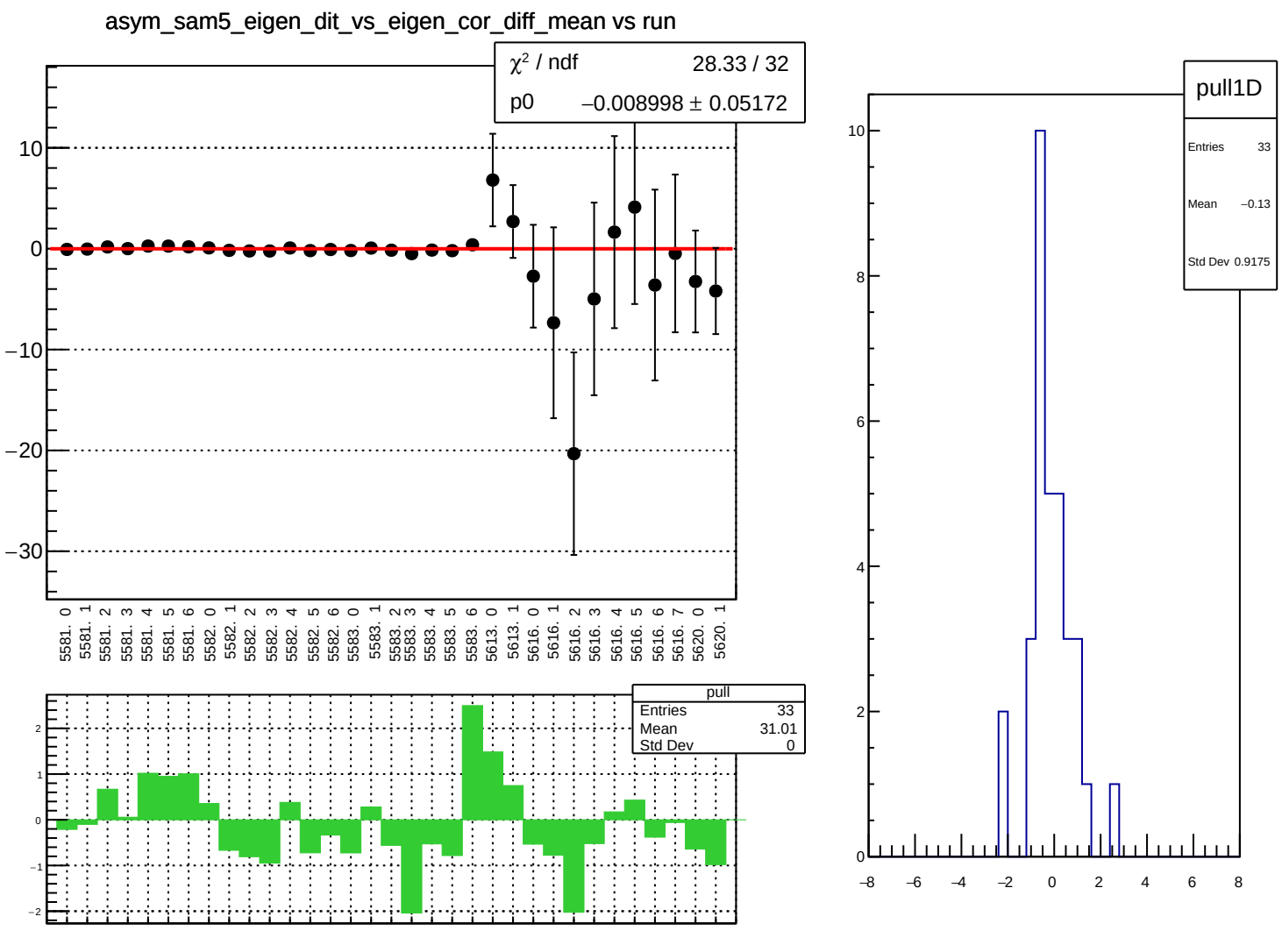

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.61 / 32
p0 −5.256e−08 ± 2.538e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 87.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

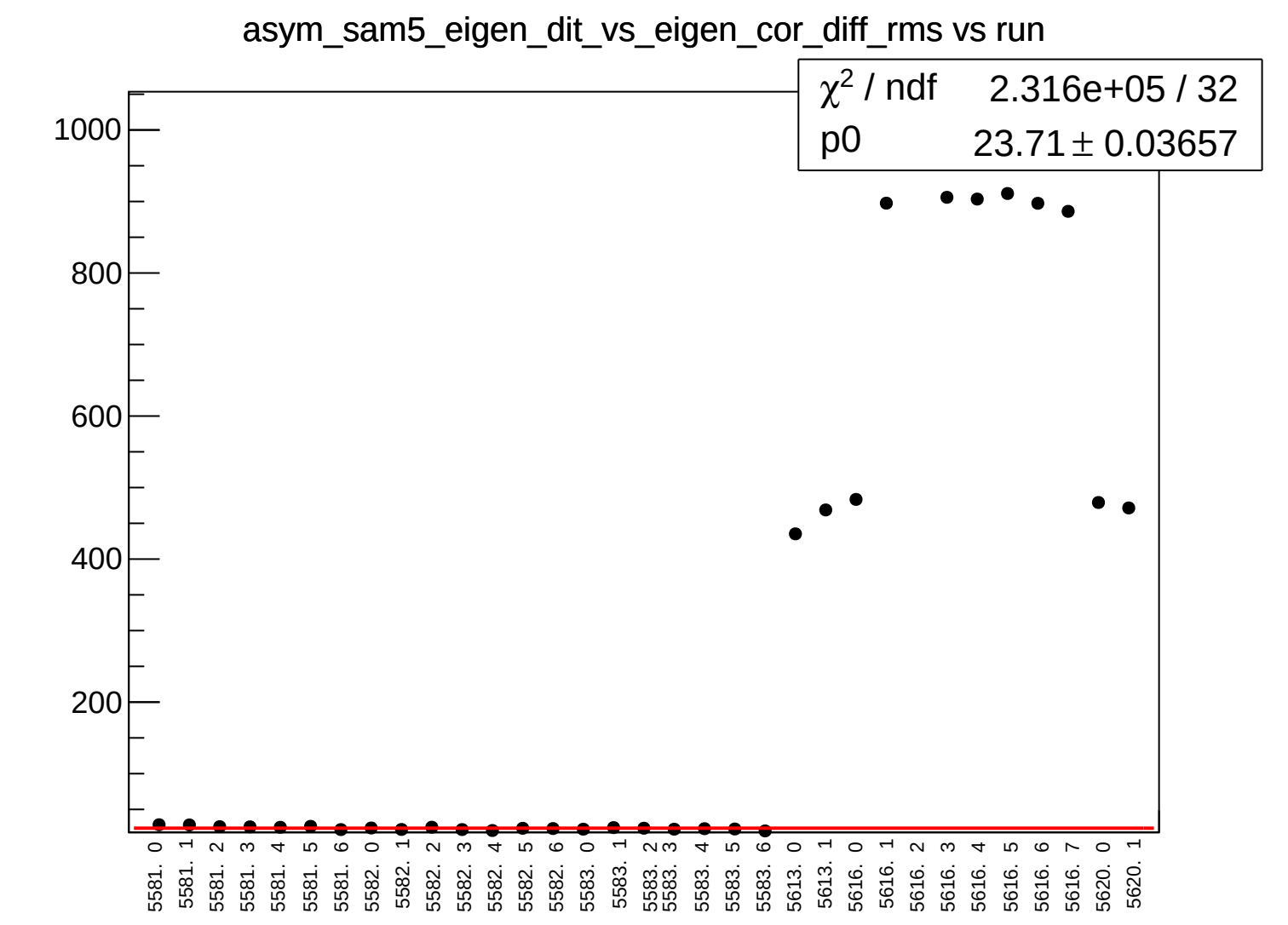

pull1D
Entries 33
Mean −0.02807
Std Dev 0.9307
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

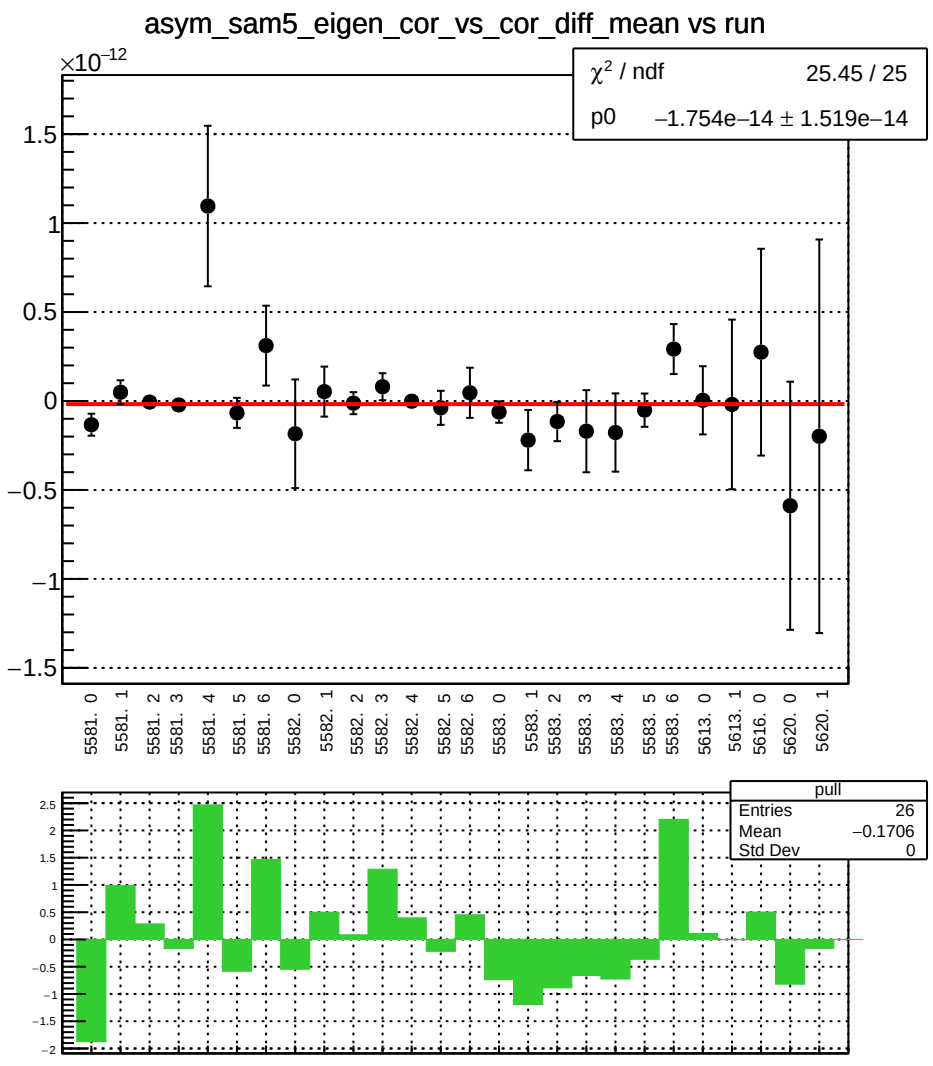

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.564e+04 / 32
p0 0.00142 ± 1.794e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

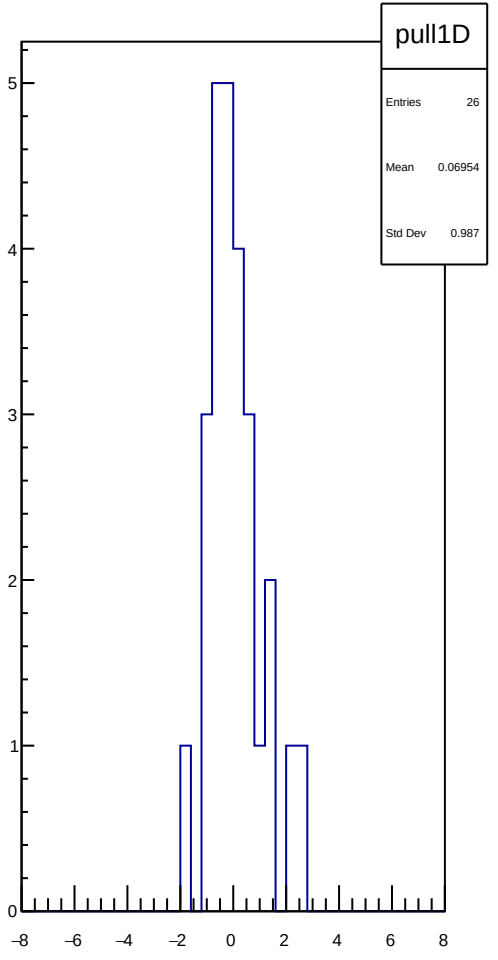

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 28.33 / 32
p0 −0.008998 ± 0.05172
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.01
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.13
Std Dev 0.9175
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

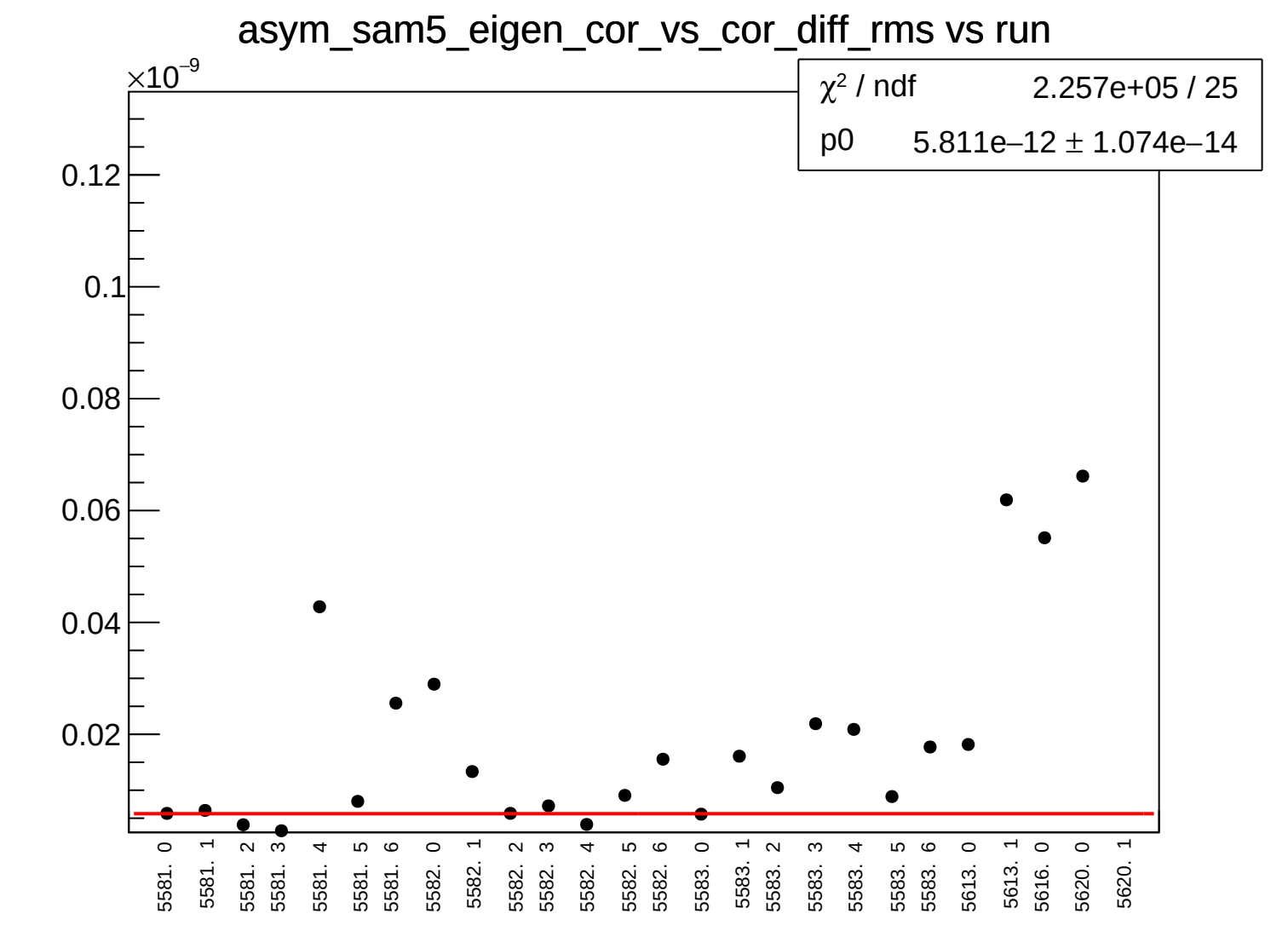

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.316e+05 / 32
p0 23.71 ± 0.03657
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

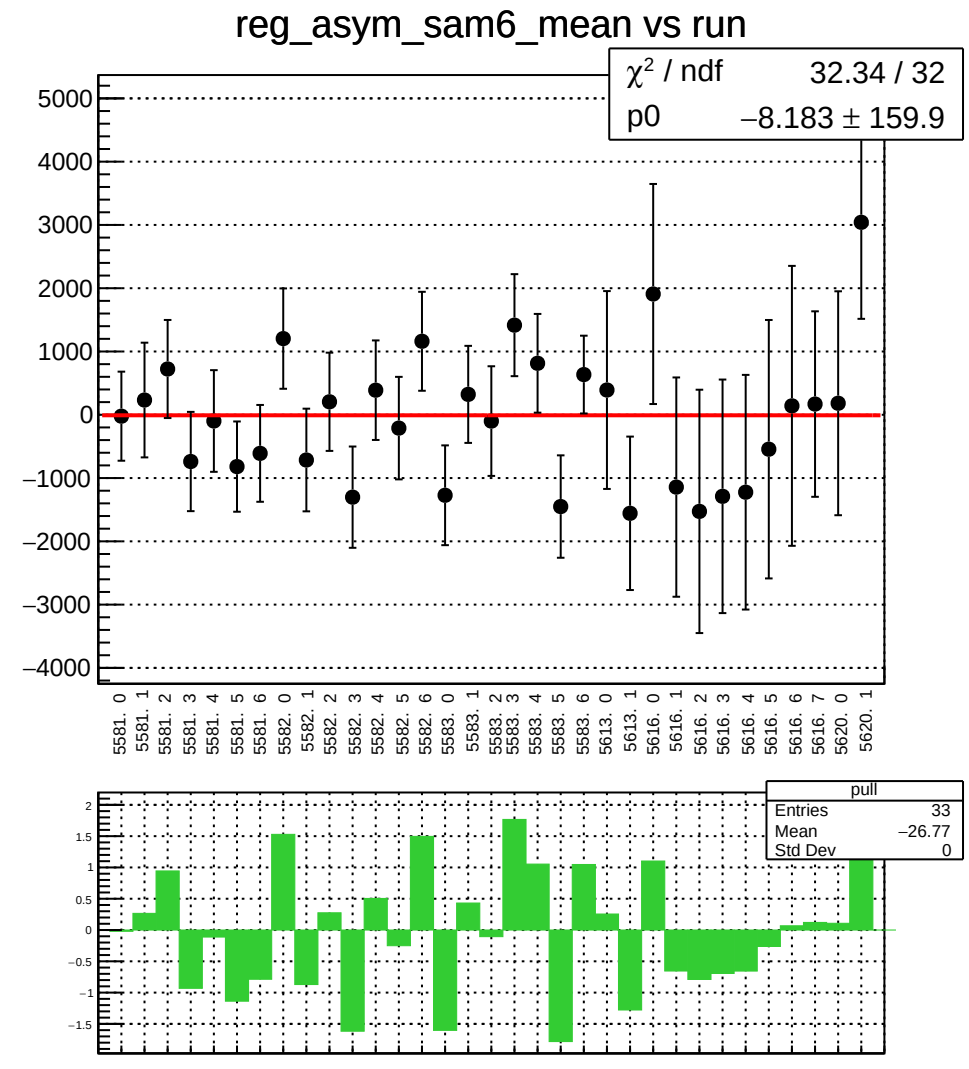

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.33 / 32
p0 −0.008998 ± 0.05172
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.01
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.13
Std Dev 0.9175
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

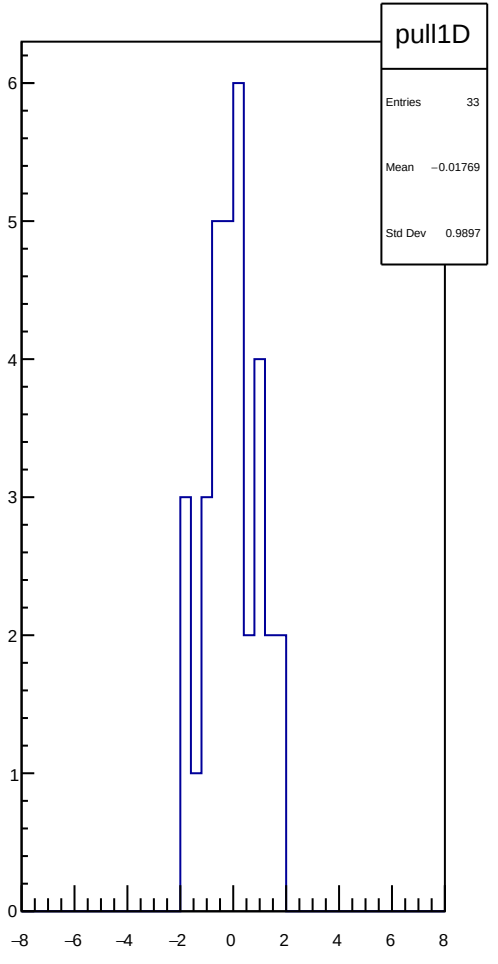

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.316e+05 / 32
p0 23.71 ± 0.03657
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

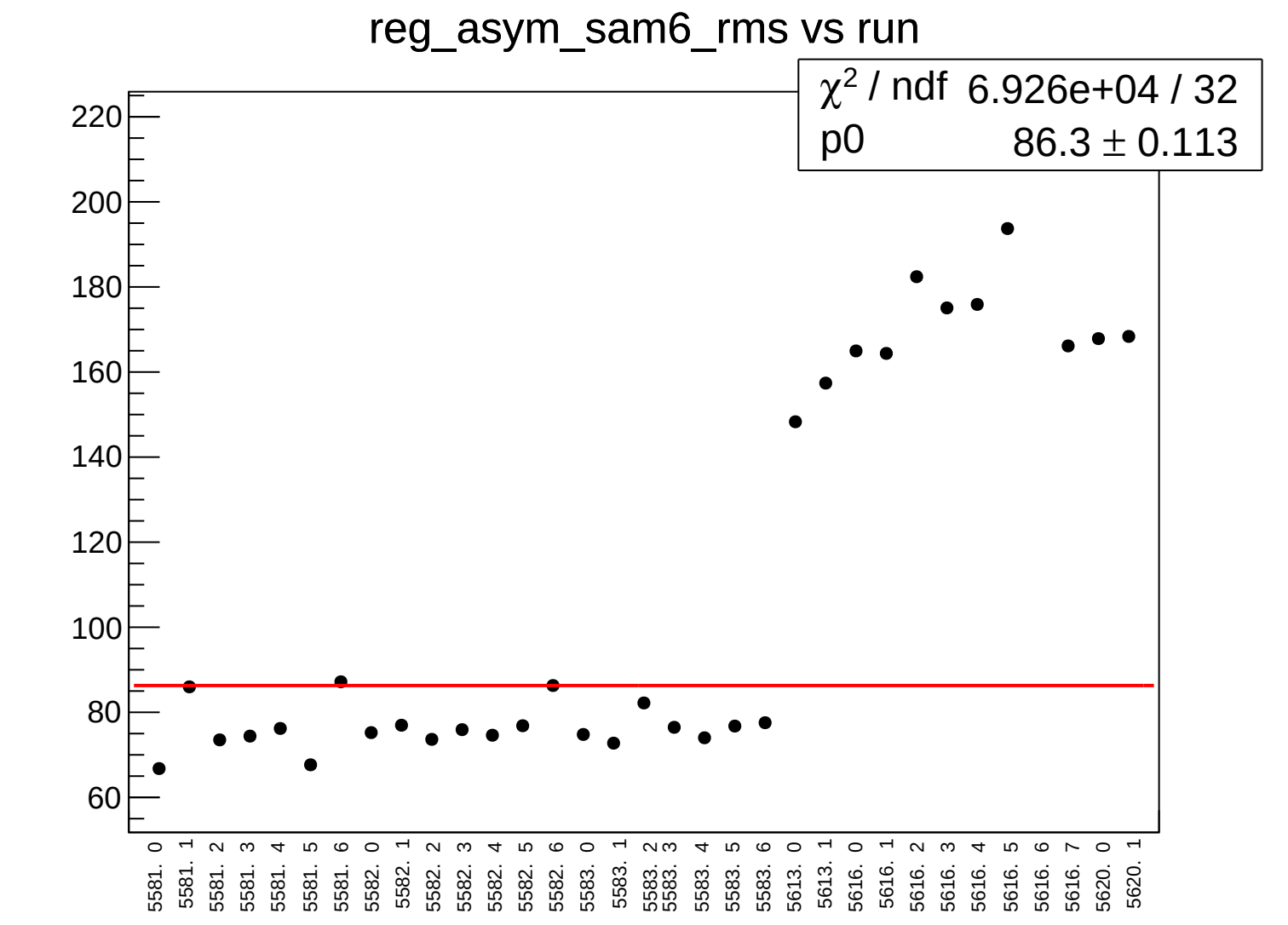

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.45 / 25
p0 −1.754e−14 ± 1.519e−14
1.5
1
0.5
0
−0.5
−1
−1.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −0.1706
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

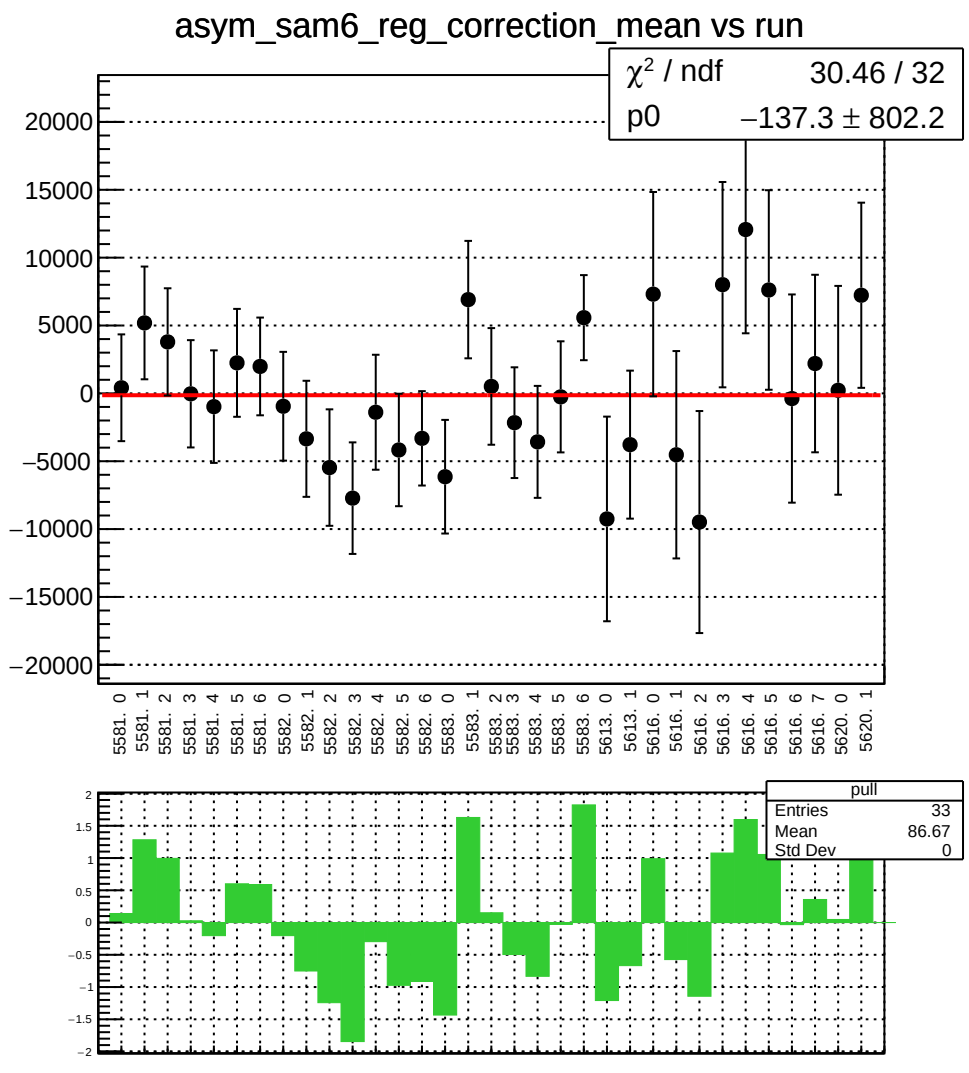

pull1D
Entries 26
Mean 0.06954
Std Dev 0.987
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

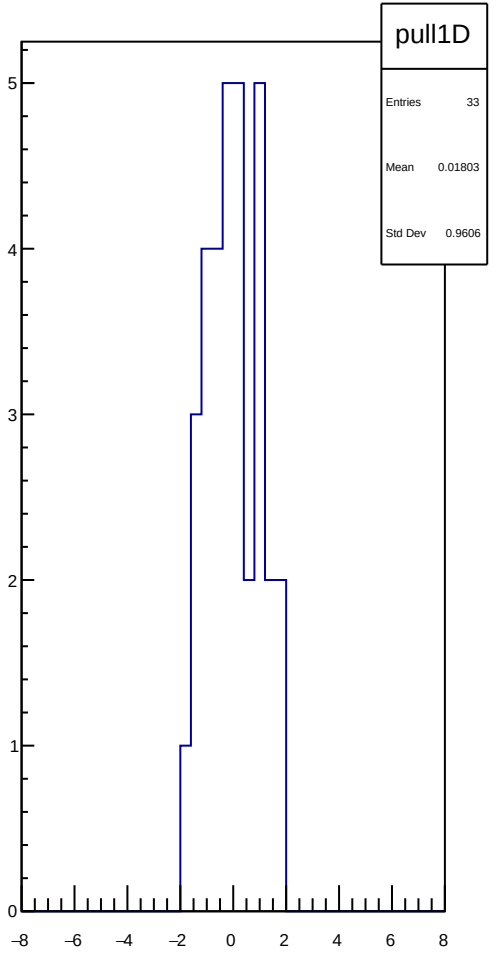

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.257e+05 / 25
p0 5.811e−12 ± 1.074e−14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

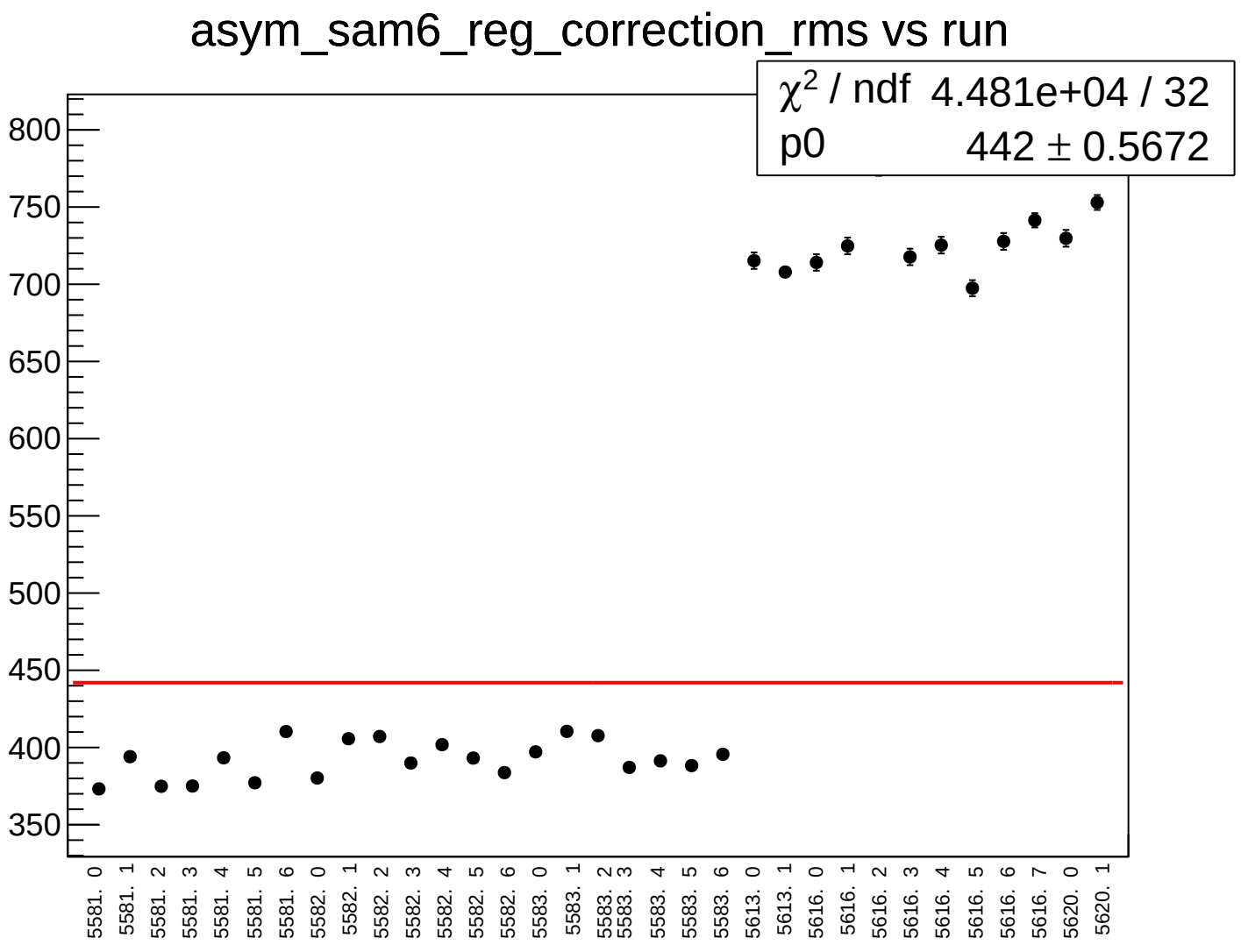

reg_asym_sam6_mean vs run
χ² / ndf 32.34 / 32
p0 −8.183 ± 159.9
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −26.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

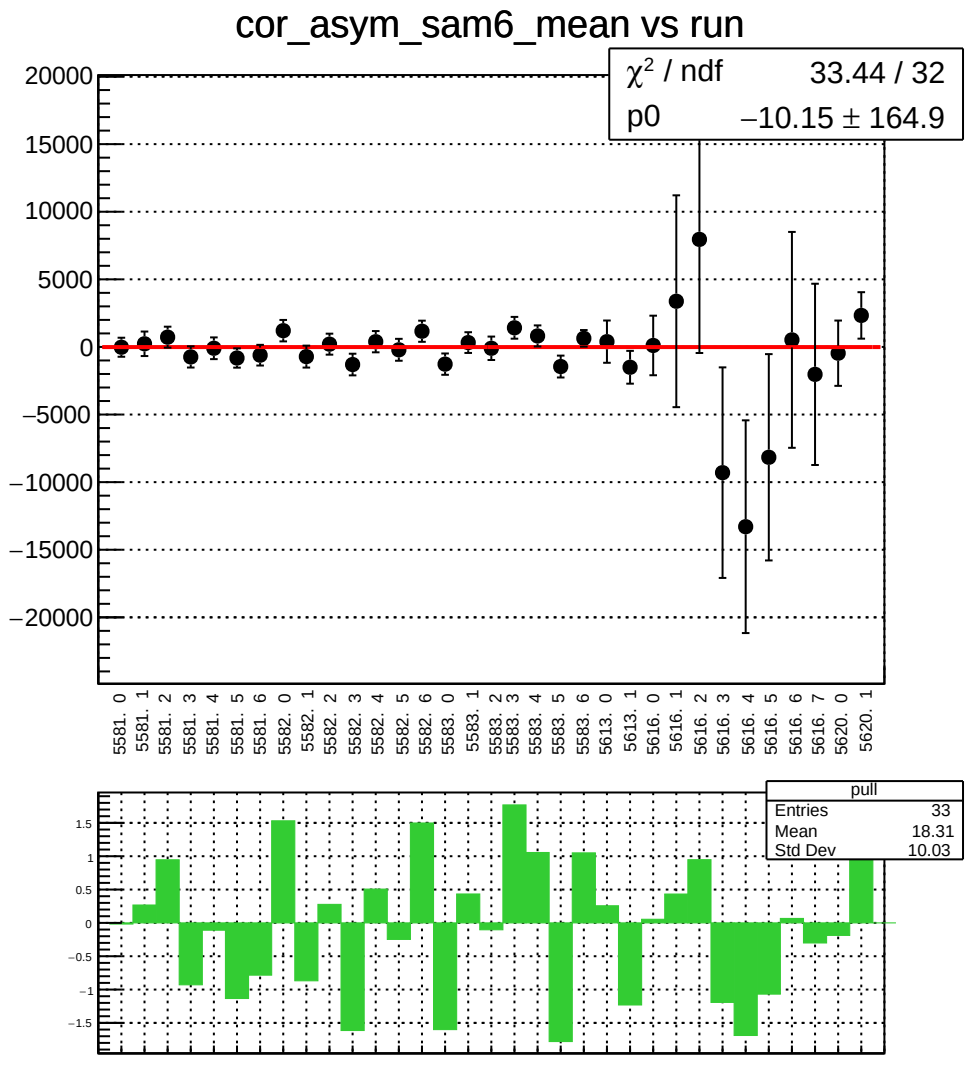

pull1D
Entries 33
Mean −0.01769
Std Dev 0.9897
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

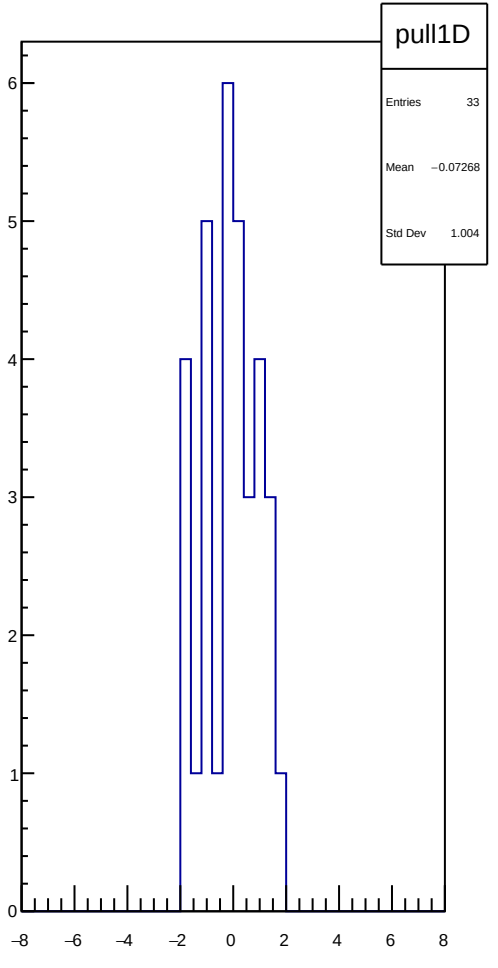

reg_asym_sam6_rms vs run
χ² / ndf 6.926e+04 / 32
p0 86.3 ± 0.113
220
200
180
160
140
120
100
80
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

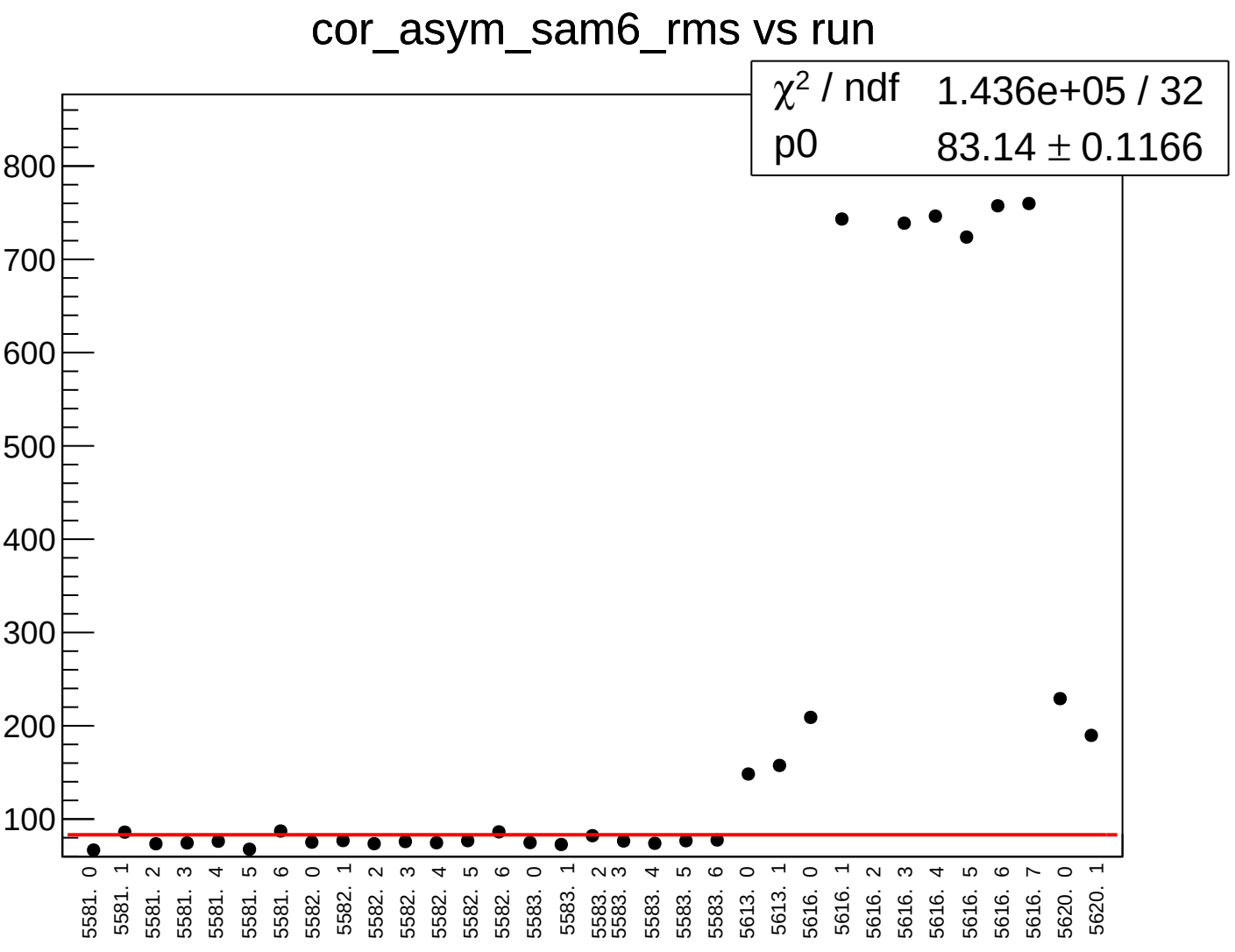

asym_sam6_reg_correction_mean vs run
χ² / ndf 30.46 / 32
p0 −137.3 ± 802.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 86.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

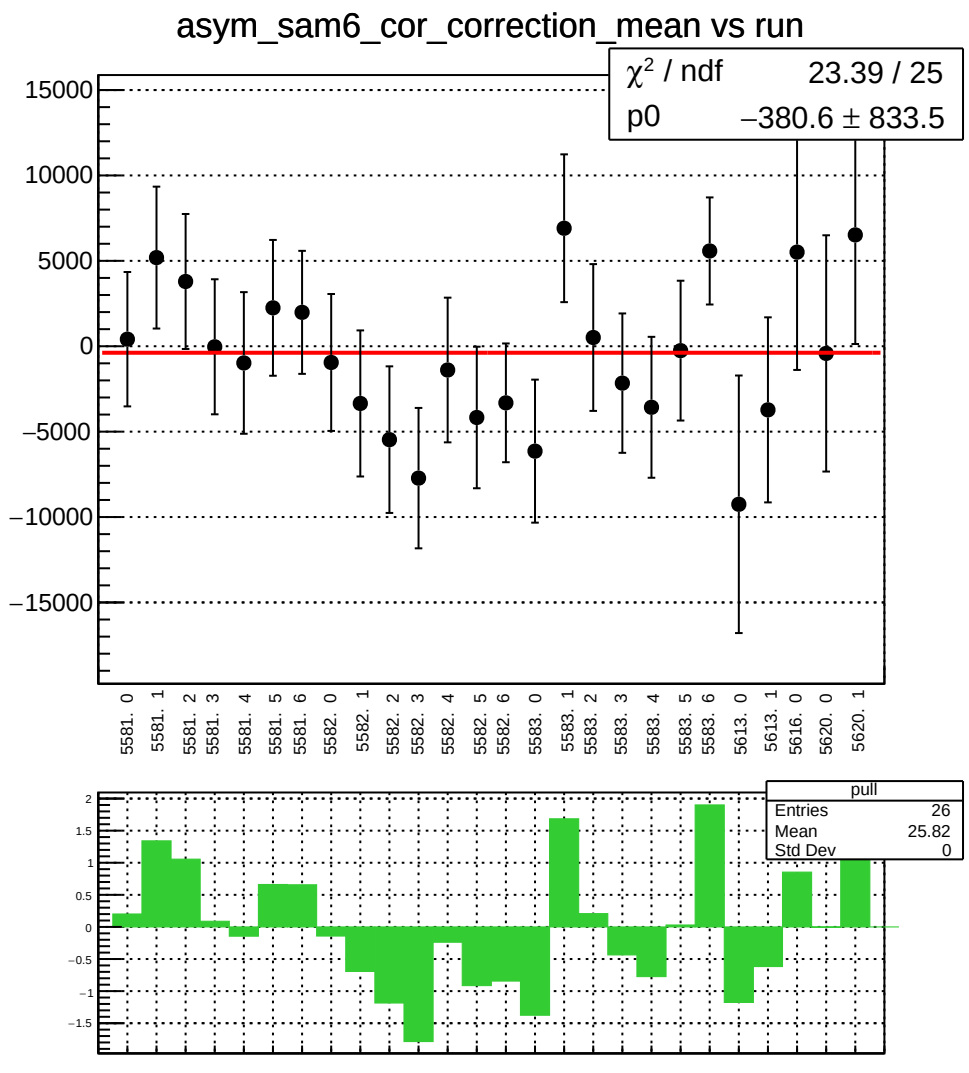

pull1D
Entries 33
Mean 0.01803
Std Dev 0.9606
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

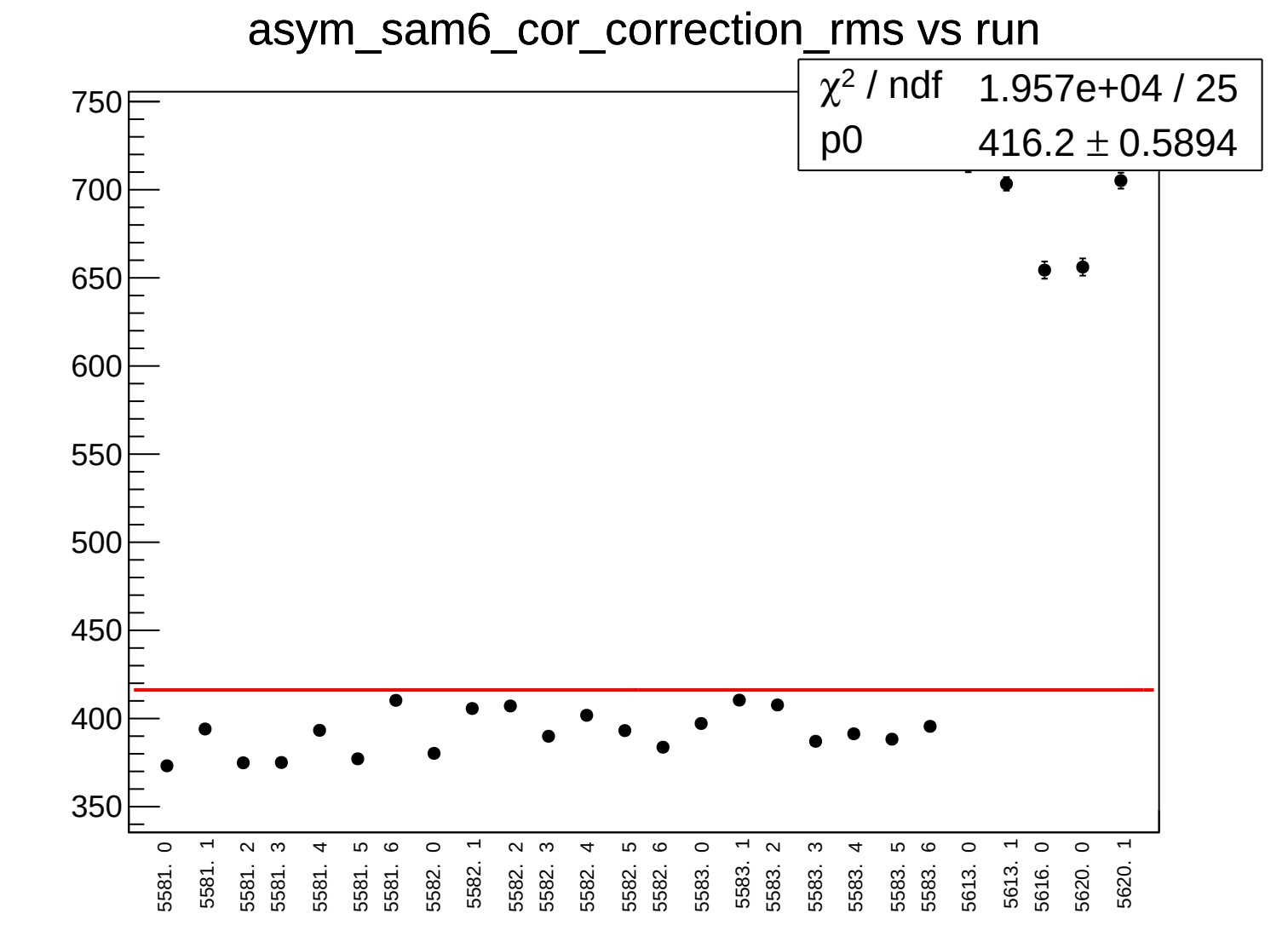

asym_sam6_reg_correction_rms vs run
χ² / ndf 4.481e+04 / 32
p0 442 ± 0.5672
800
750
700
650
600
550
500
450
400
350
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

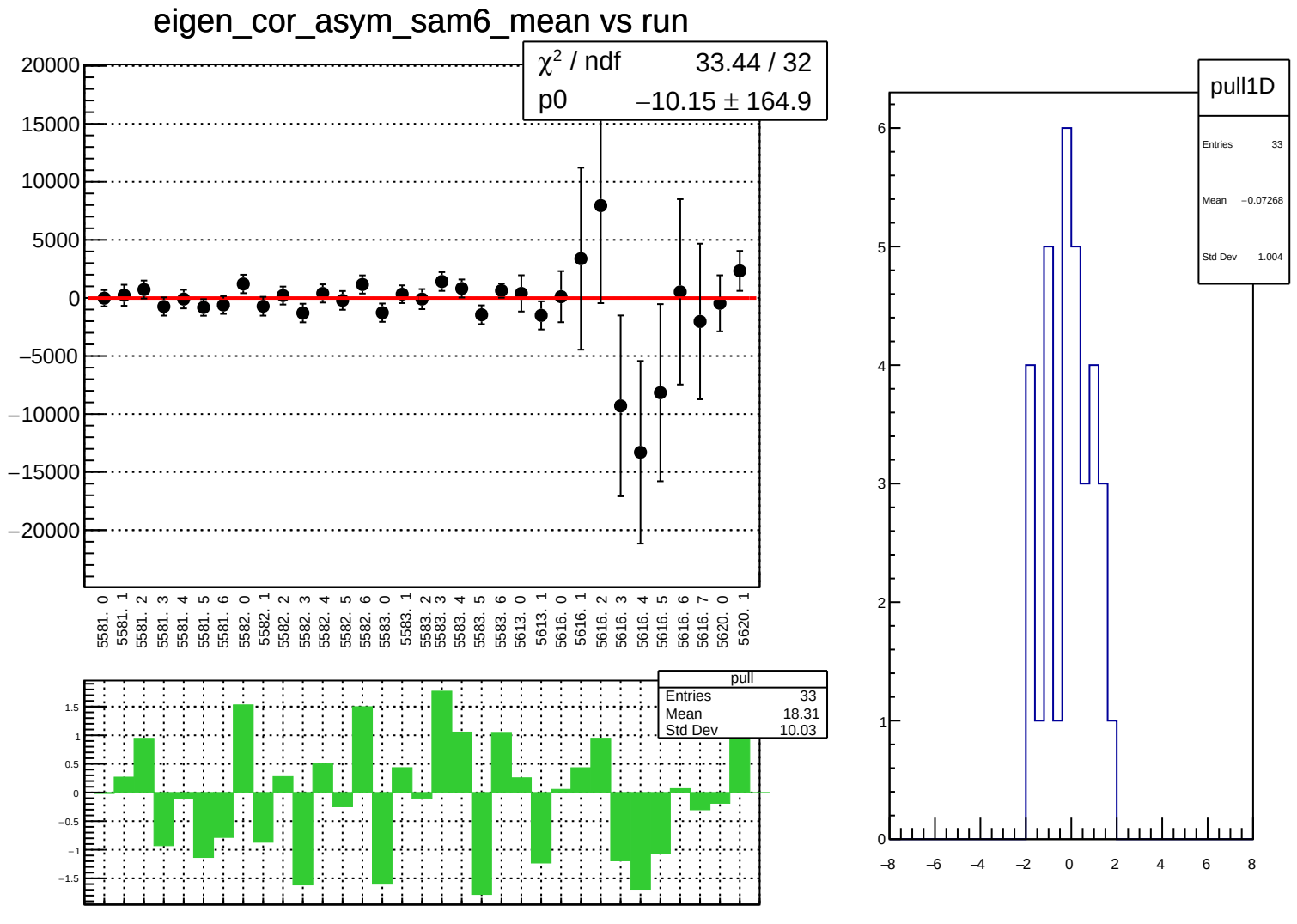

cor_asym_sam6_mean vs run
χ² / ndf 33.44 / 32
p0 −10.15 ± 164.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.31
Std Dev 10.03
1.5
1
0.5
0
−0.5
−1
−1.5

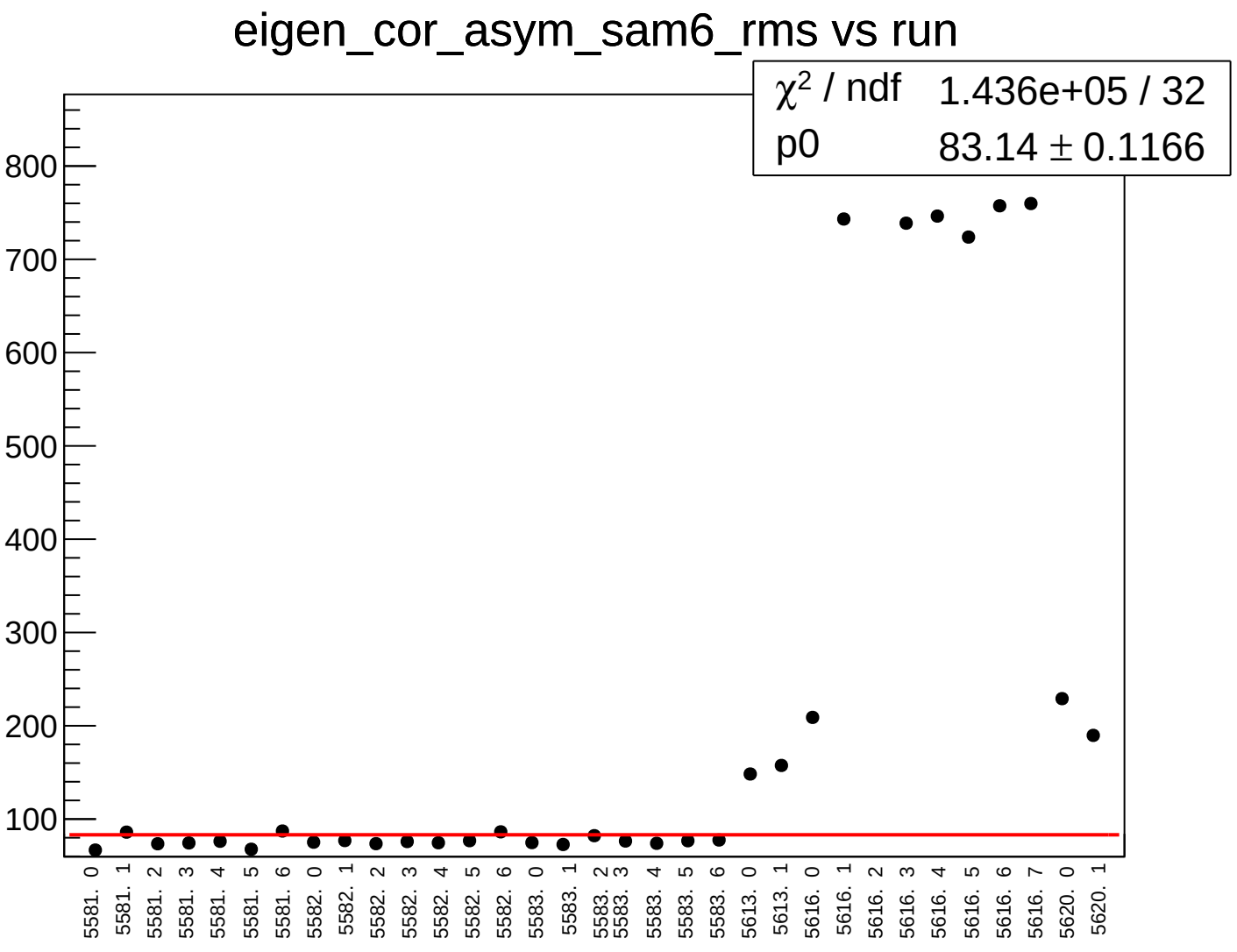

pull1D
Entries 33
Mean −0.07268
Std Dev 1.004
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

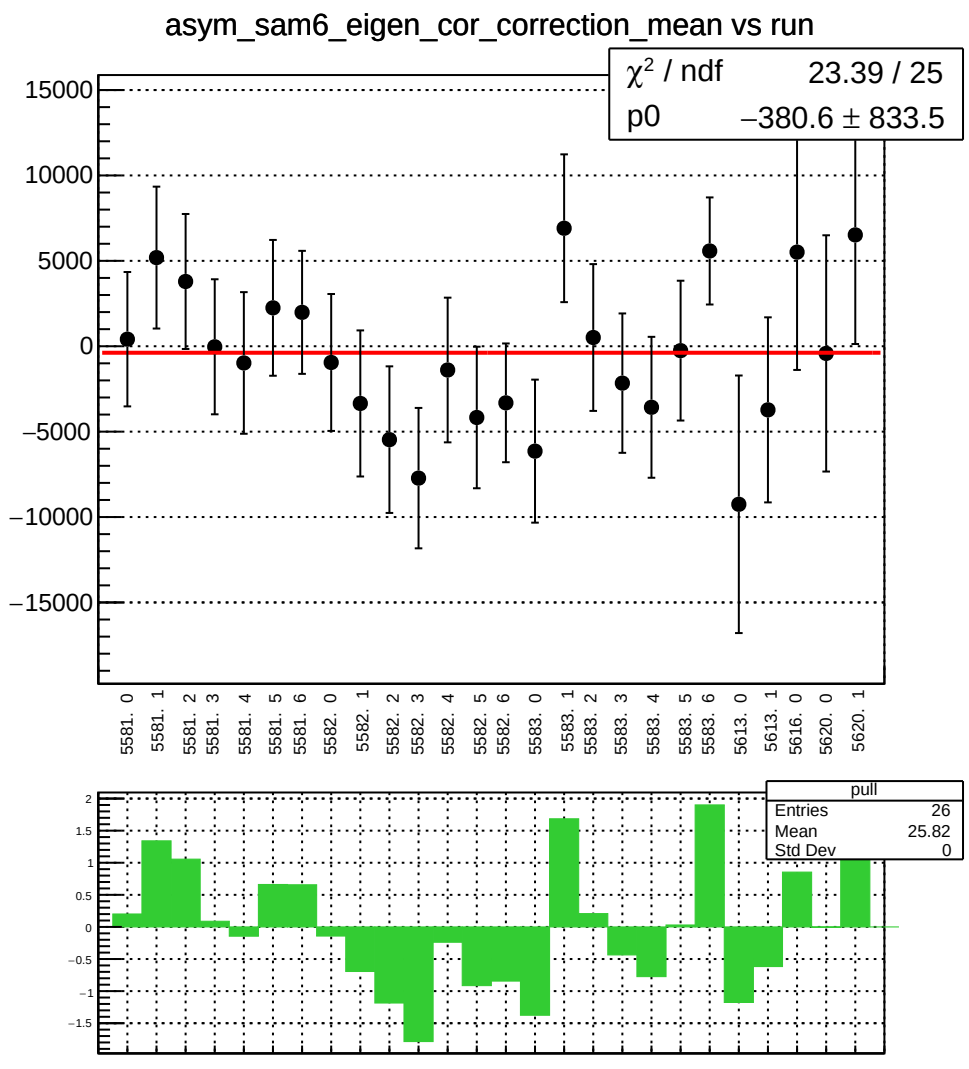

cor_asym_sam6_rms vs run
χ² / ndf 1.436e+05 / 32
p0 83.14 ± 0.1166
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

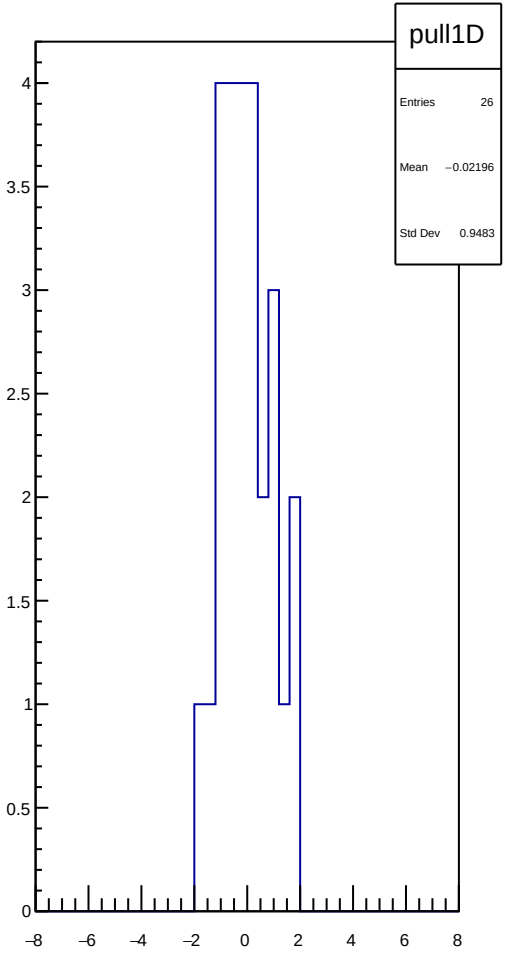

asym_sam6_cor_correction_mean vs run
χ² / ndf 23.39 / 25
p0 −380.6 ± 833.5
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 25.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.02196
Std Dev 0.9483
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

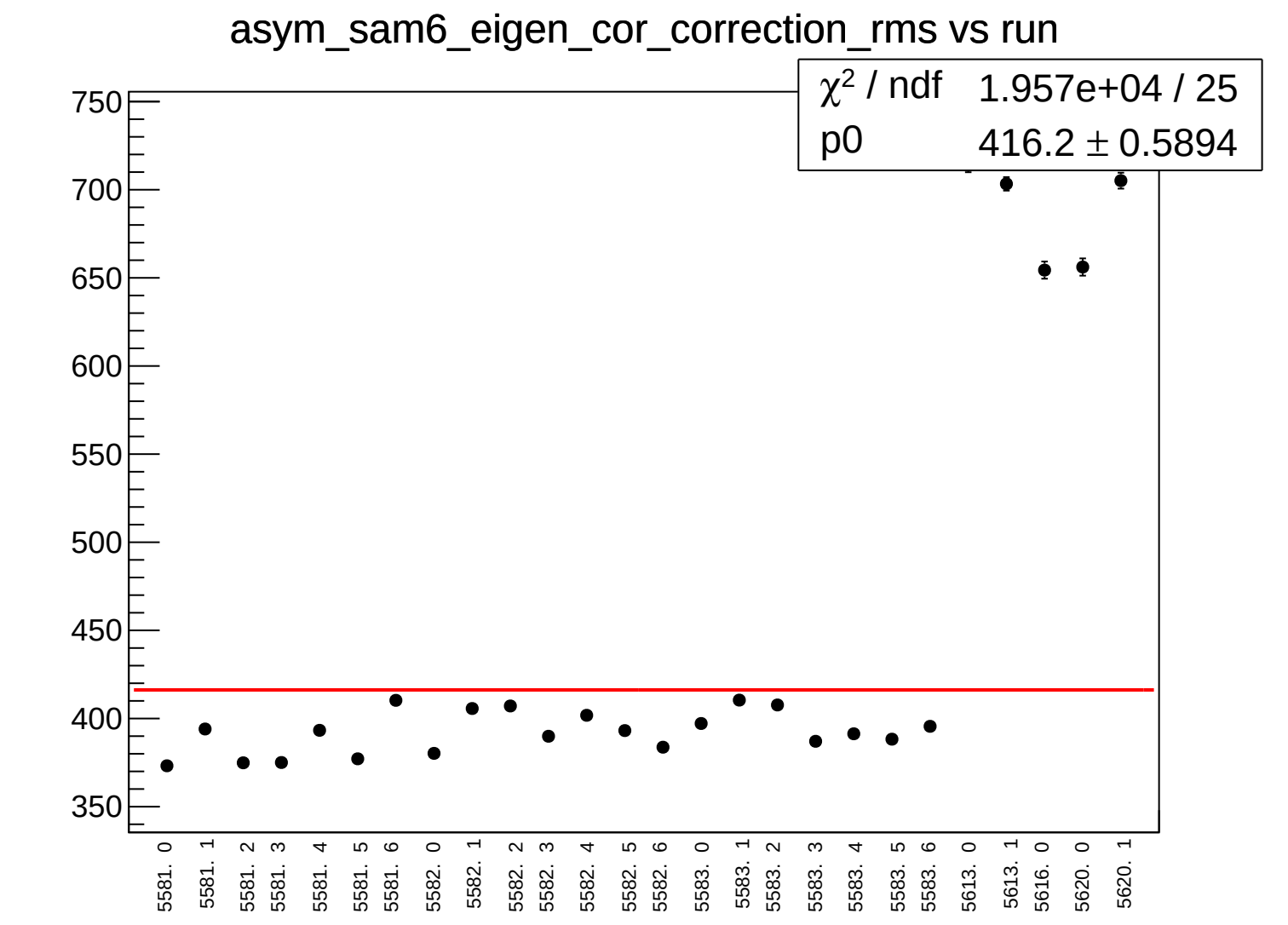

asym_sam6_cor_correction_rms vs run
χ² / ndf 1.957e+04 / 25
p0 416.2 ± 0.5894
750
700
650
600
550
500
450
400
350
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

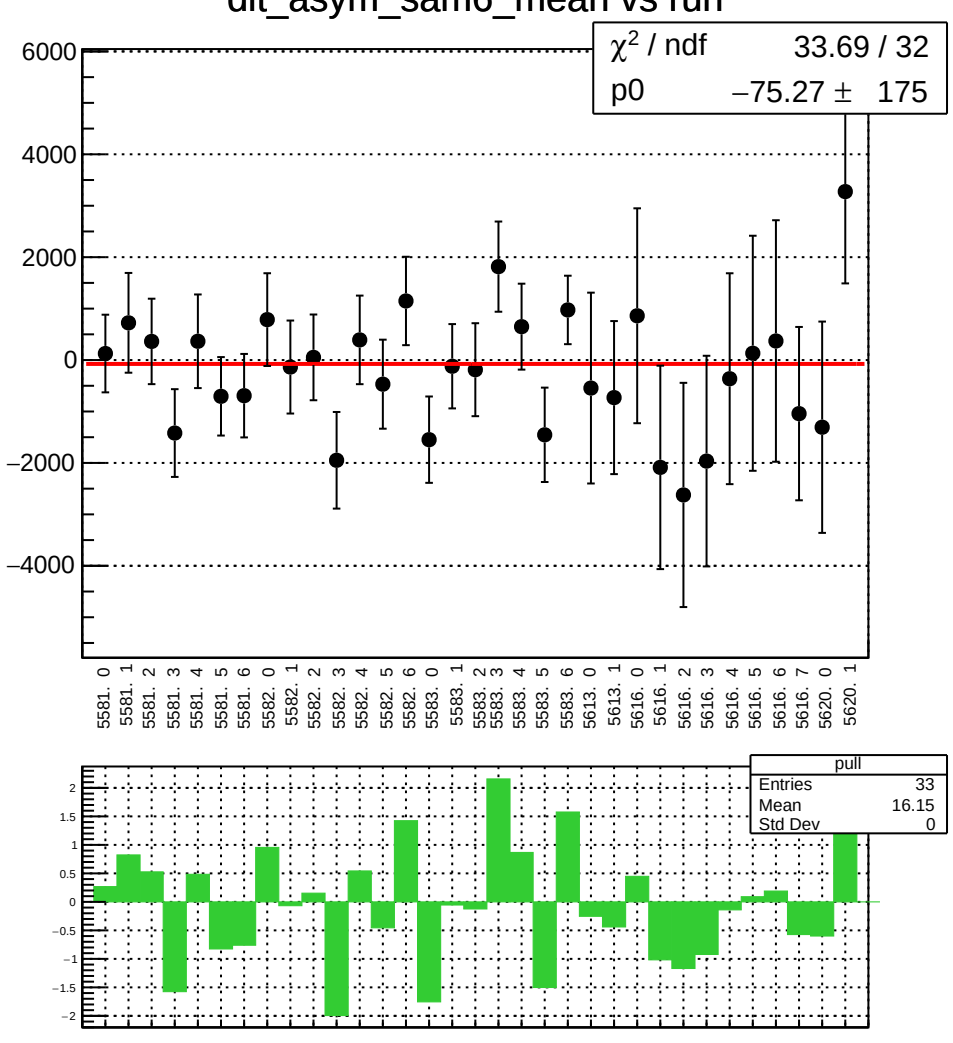

eigen_cor_asym_sam6_mean vs run
χ² / ndf 33.44 / 32
p0 −10.15 ± 164.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.31
Std Dev 10.03
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.07268
Std Dev 1.004
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

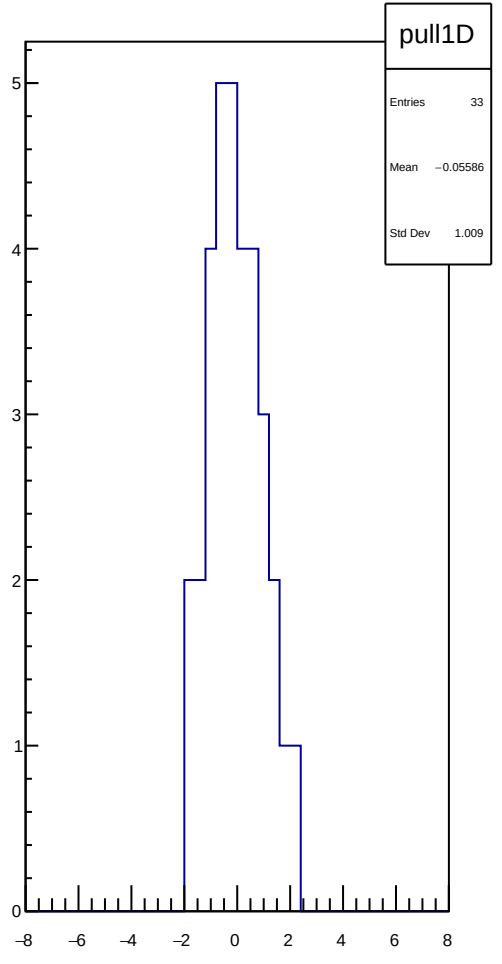

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.436e+05 / 32
p0 83.14 ± 0.1166
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

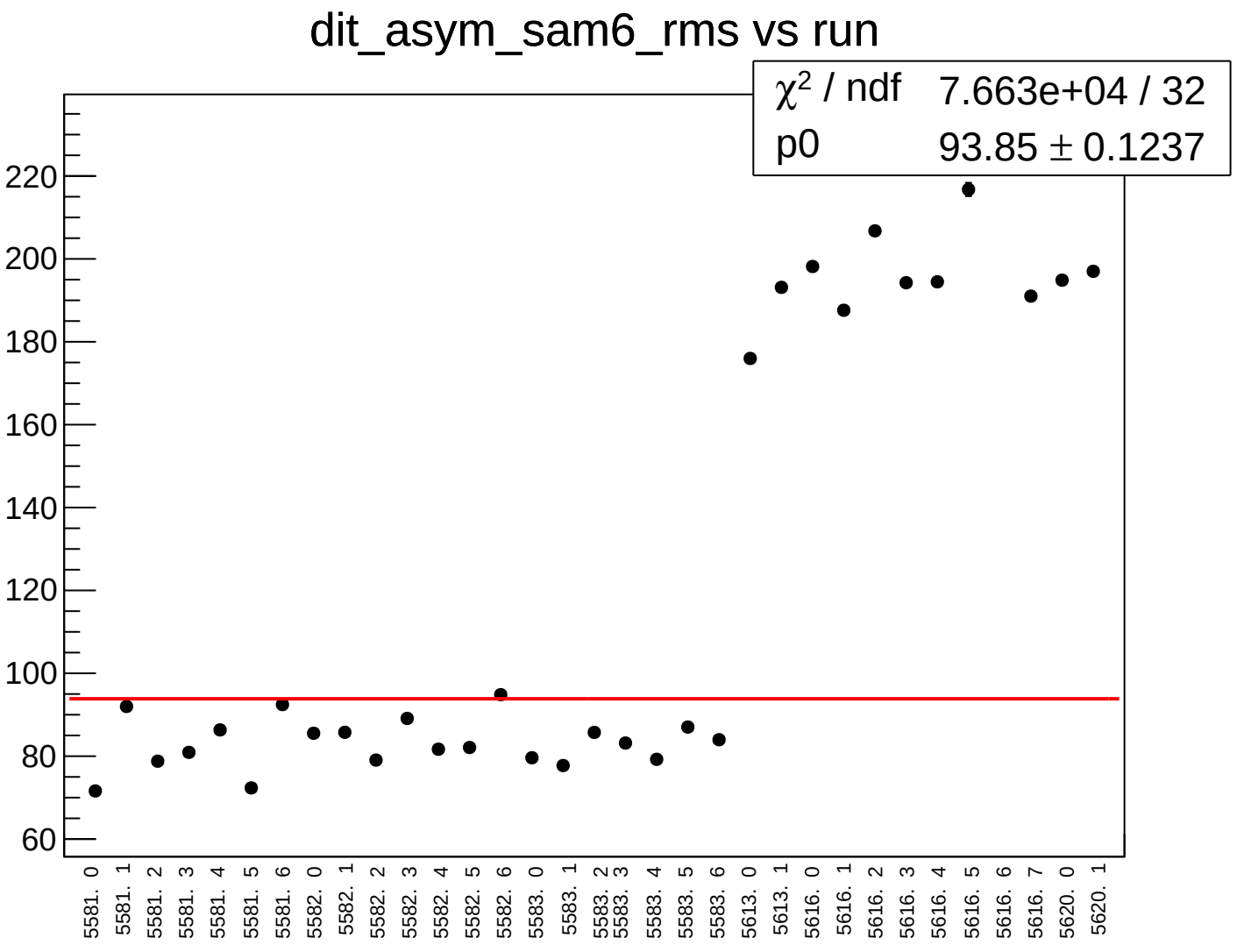

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 23.39 / 25
p0 −380.6 ± 833.5
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 25.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

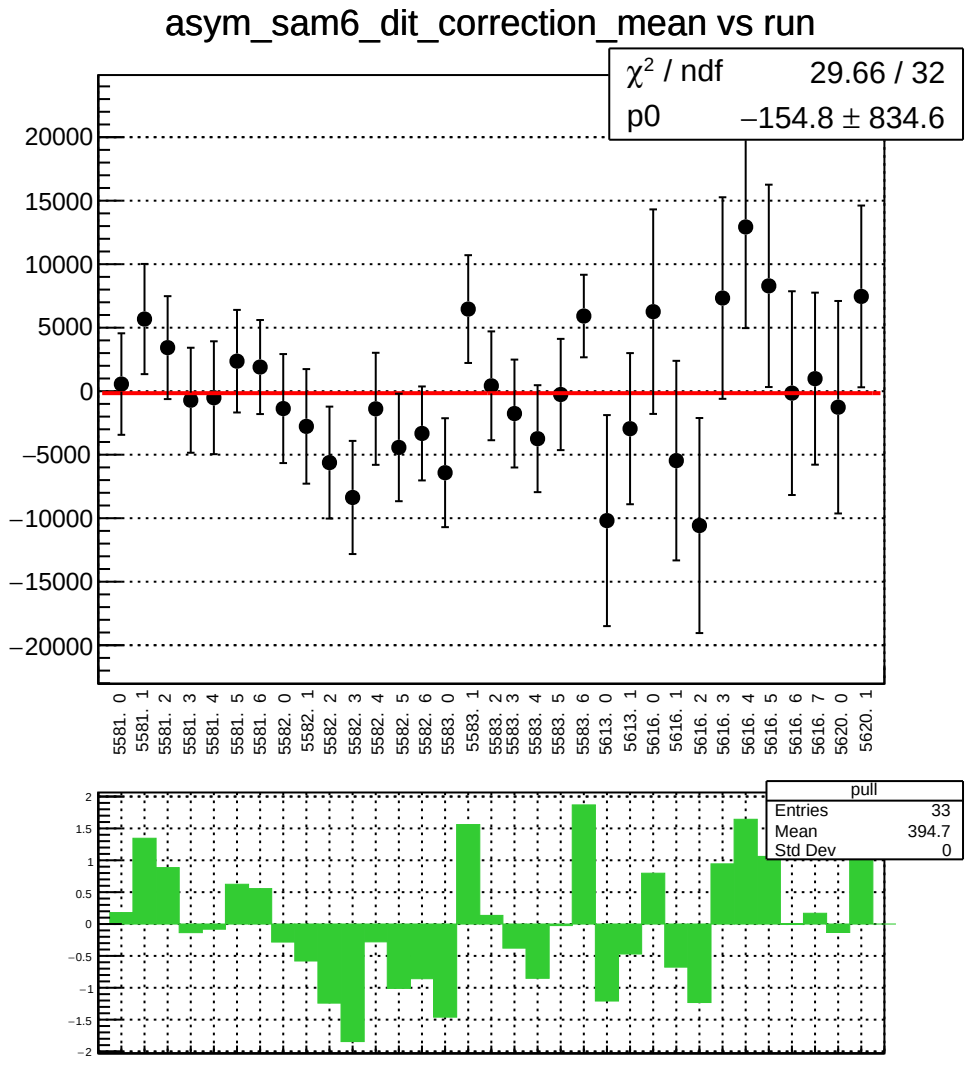

pull1D
Entries 26
Mean −0.02196
Std Dev 0.9483
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

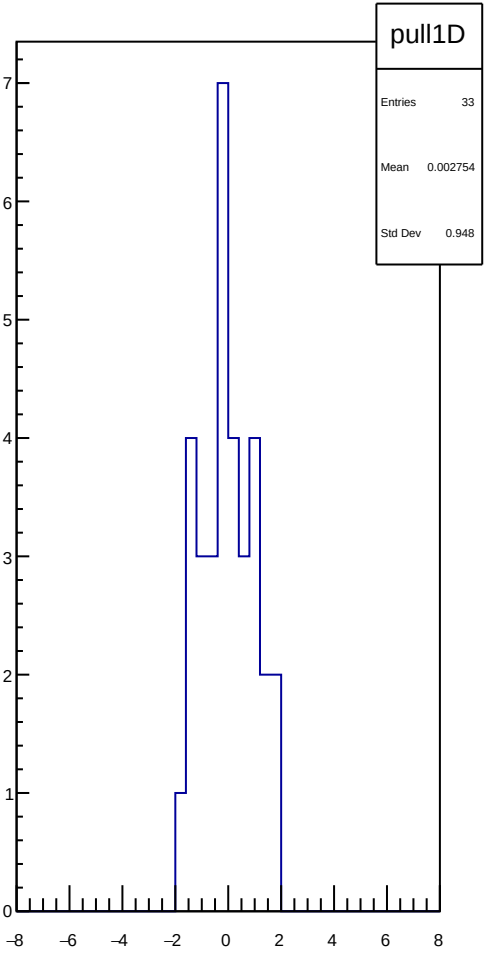

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 1.957e+04 / 25
p0 416.2 ± 0.5894
750
700
650
600
550
500
450
400
350
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

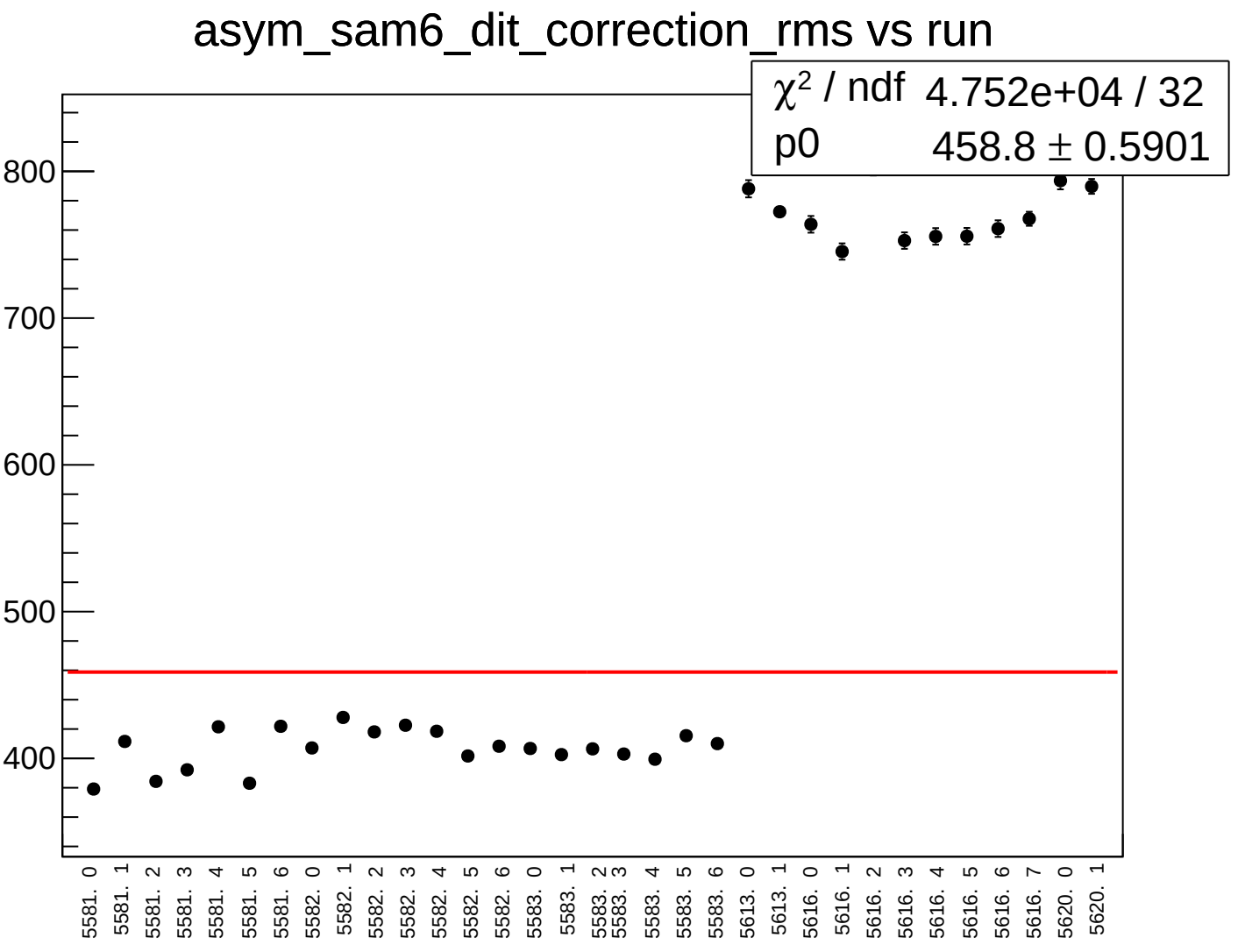

dit_asym_sam6_mean vs run
χ² / ndf 33.69 / 32
p0 −75.27 ± 175
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

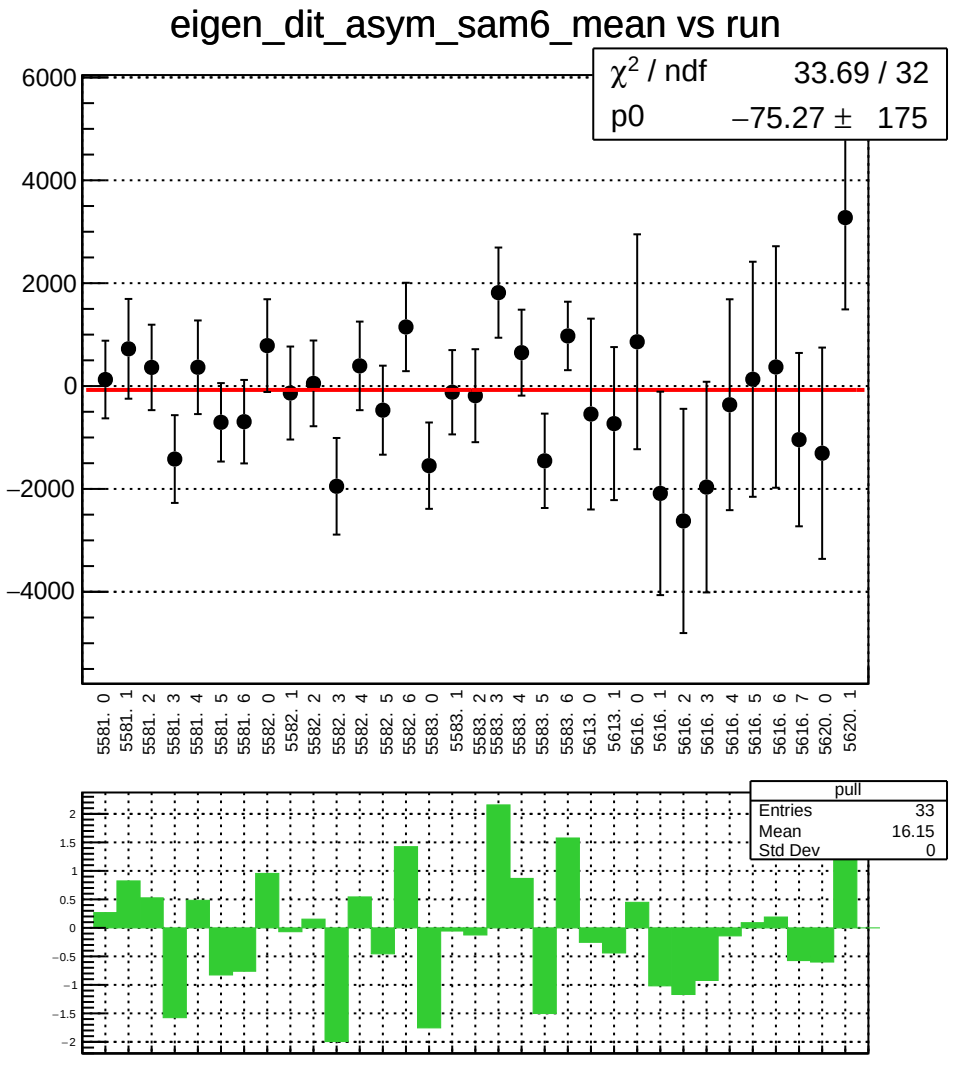

pull1D
Entries 33
Mean −0.05586
Std Dev 1.009
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

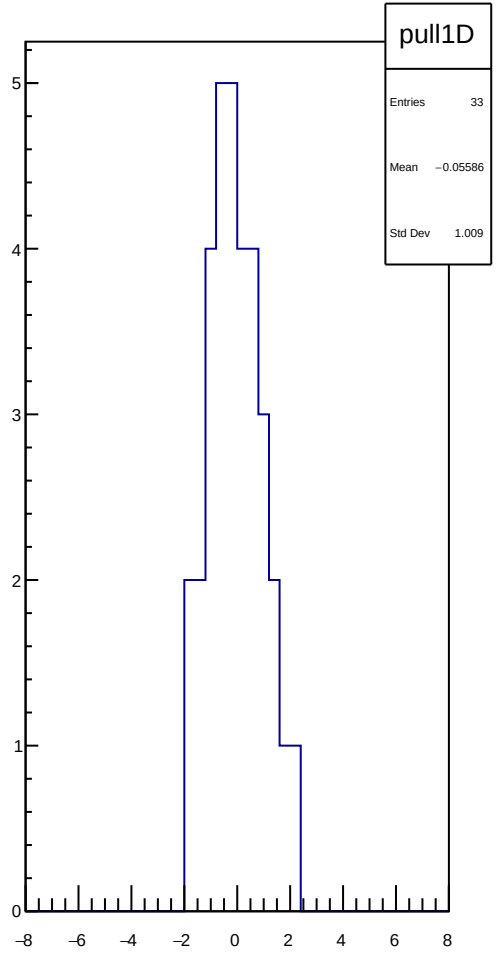

dit_asym_sam6_rms vs run
χ² / ndf 7.663e+04 / 32
p0 93.85 ± 0.1237
220
200
180
160
140
120
100
80
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

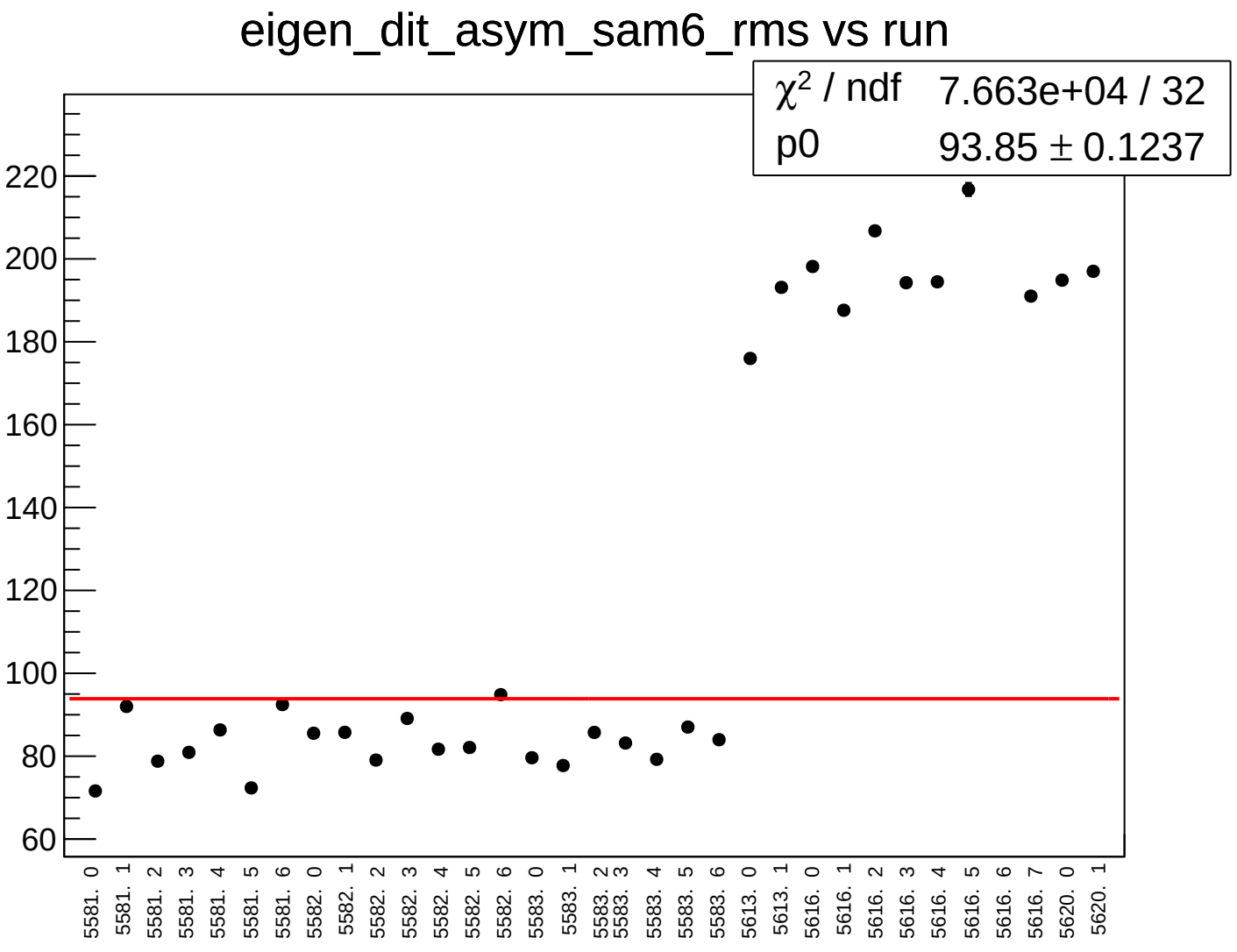

asym_sam6_dit_correction_mean vs run
χ² / ndf 29.66 / 32
p0 −154.8 ± 834.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 394.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

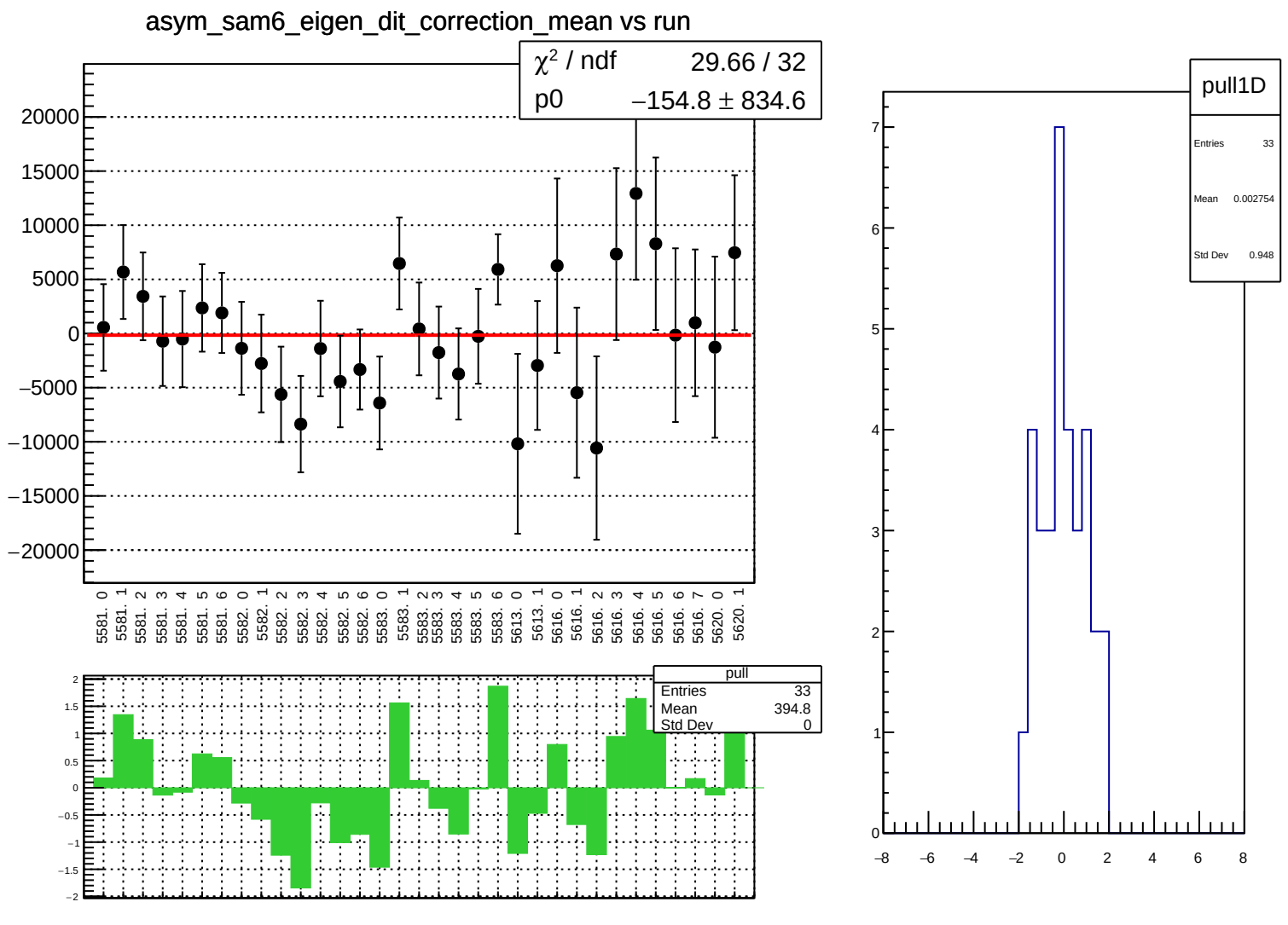

pull1D
Entries 33
Mean 0.002754
Std Dev 0.948
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

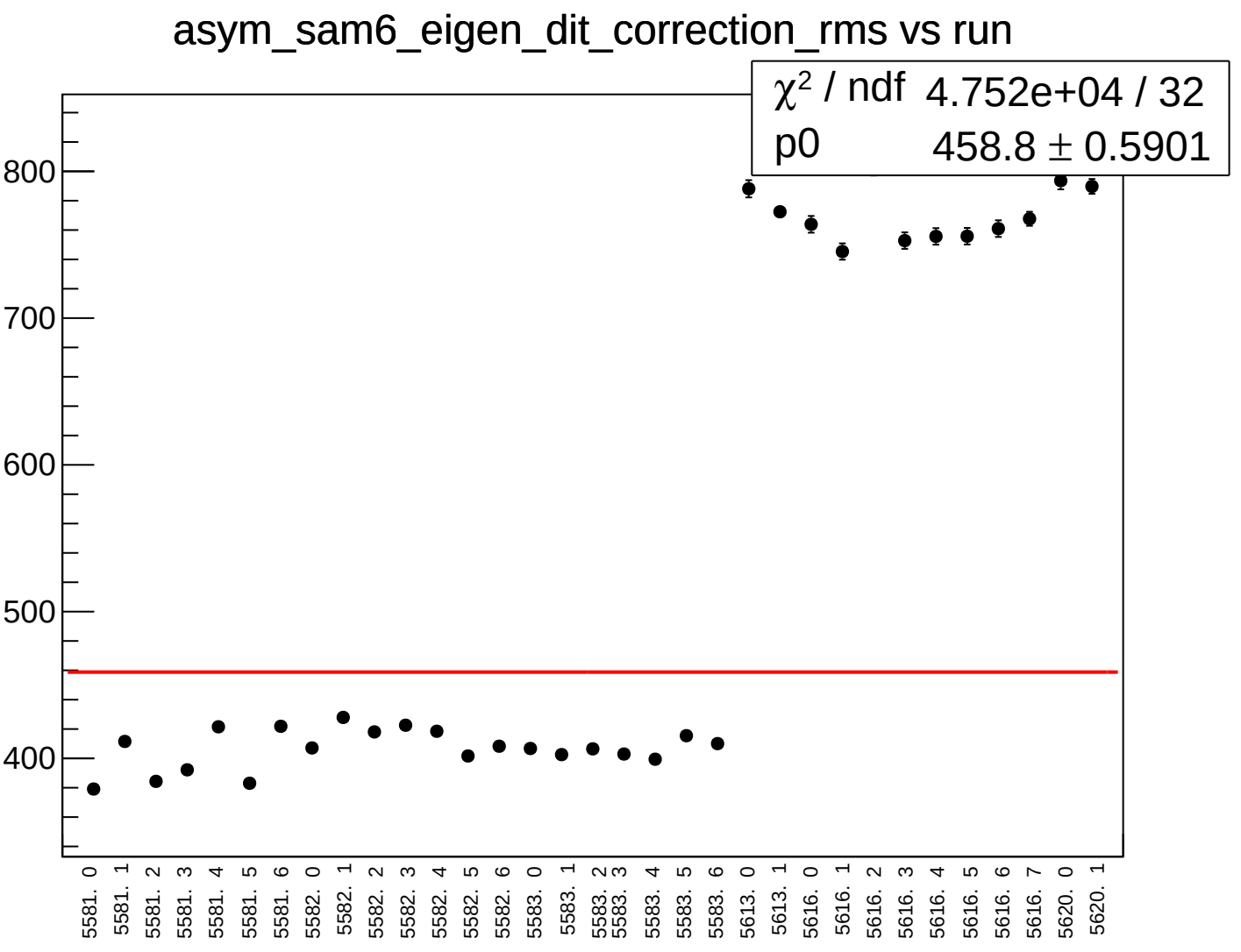

asym_sam6_dit_correction_rms vs run
χ² / ndf 4.752e+04 / 32
p0 458.8 ± 0.5901
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

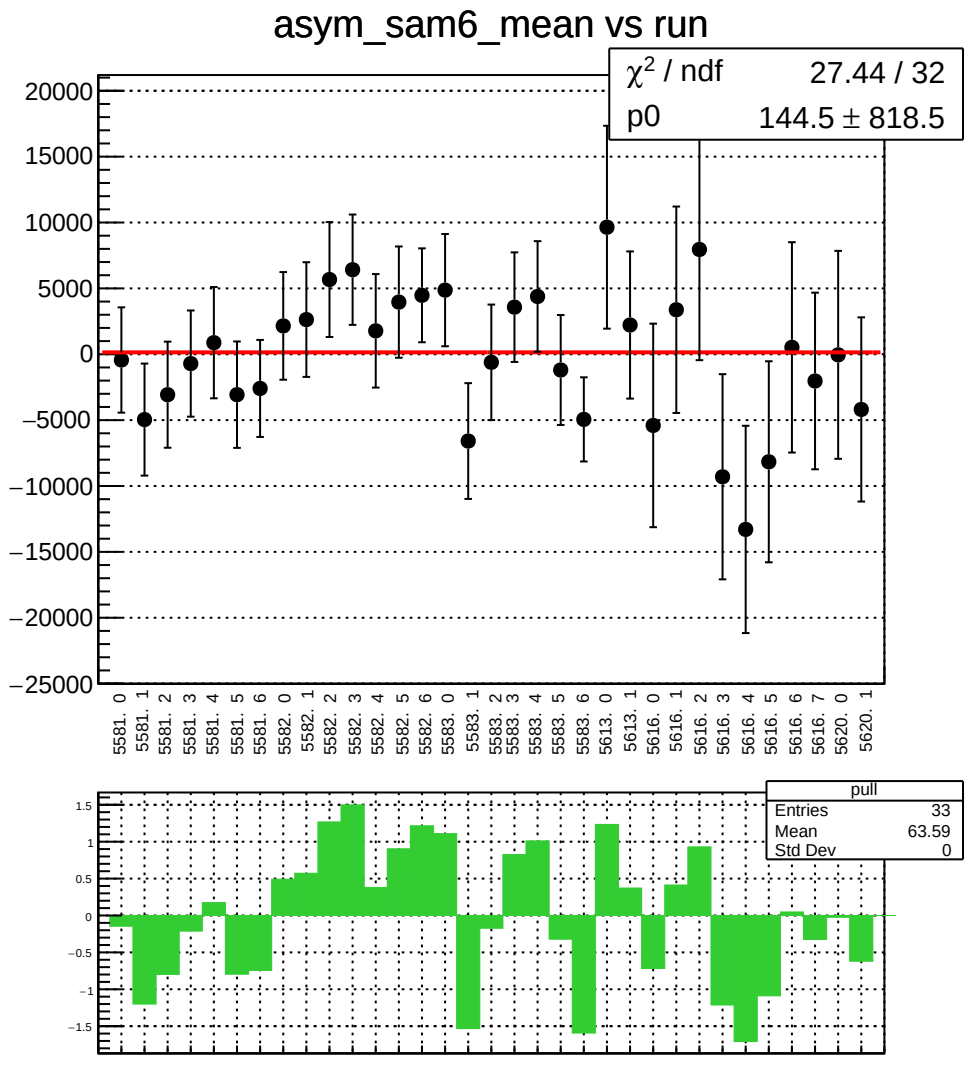

eigen_dit_asym_sam6_mean vs run
χ² / ndf 33.69 / 32
p0 −75.27 ± 175
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

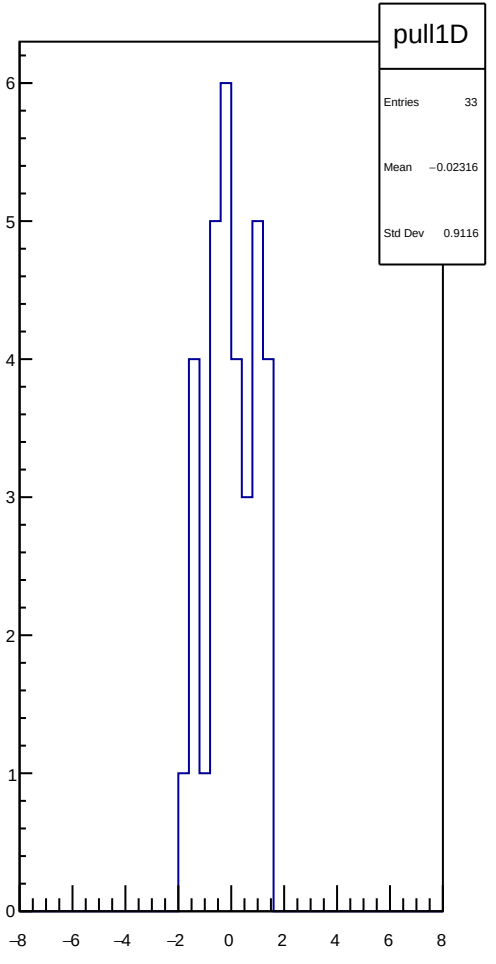

pull1D
Entries 33
Mean −0.05586
Std Dev 1.009
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

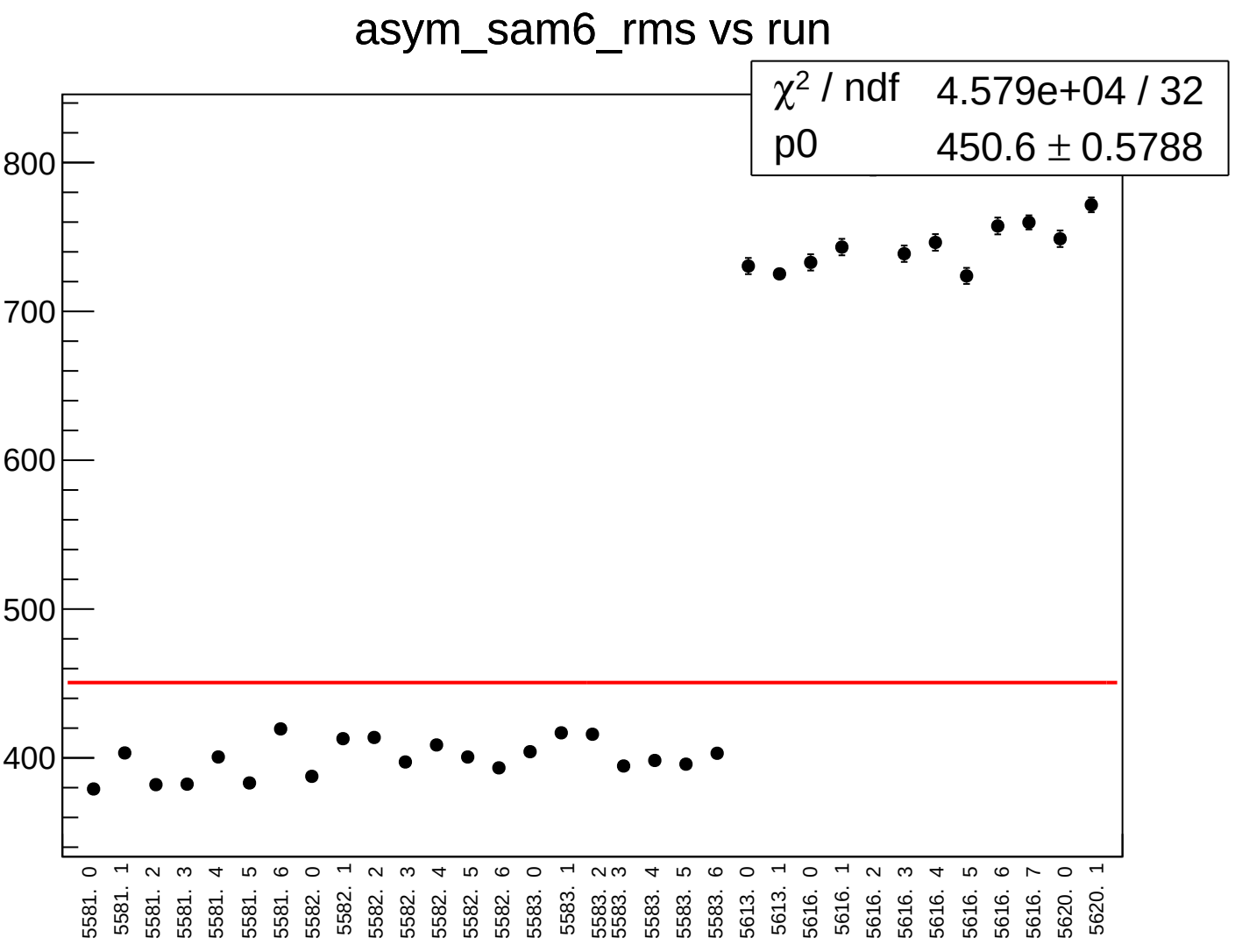

eigen_dit_asym_sam6_rms vs run
χ² / ndf 7.663e+04 / 32
p0 93.85 ± 0.1237
220
200
180
160
140
120
100
80
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

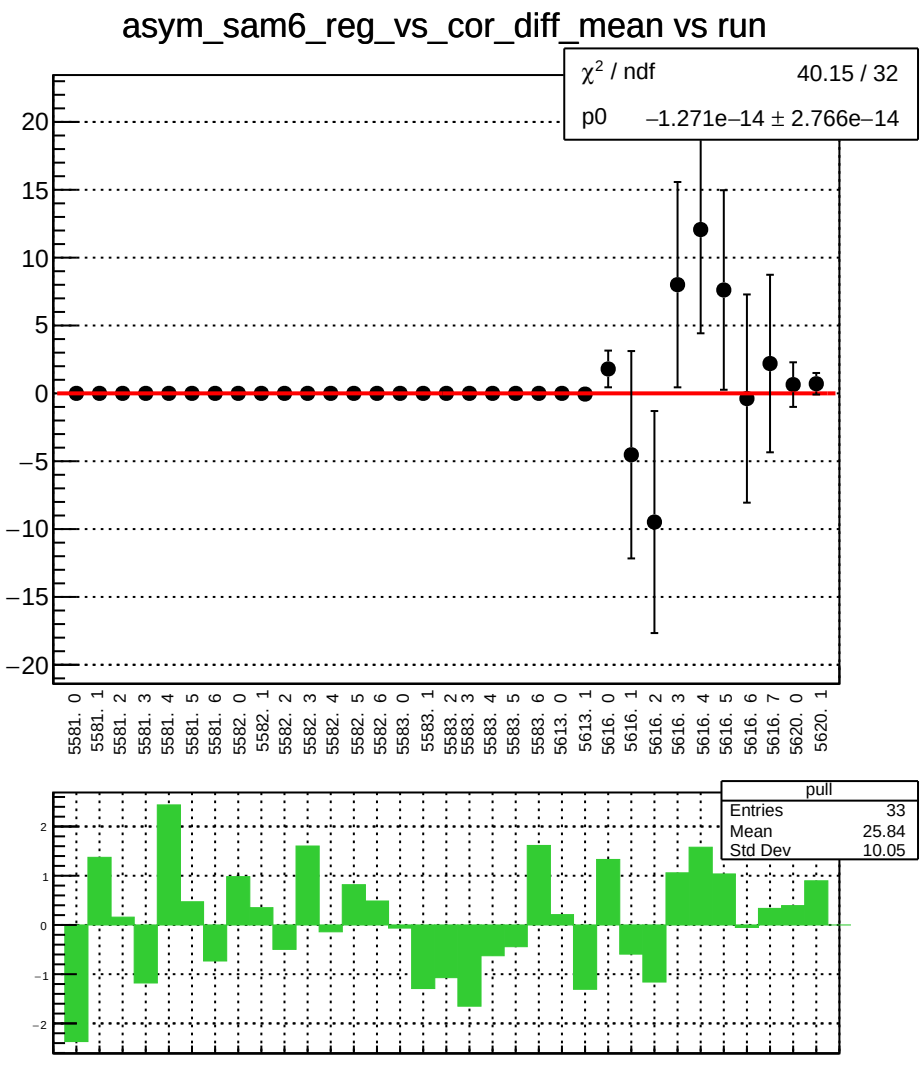

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 29.66 / 32
p0 −154.8 ± 834.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 394.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.002754
Std Dev 0.948
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

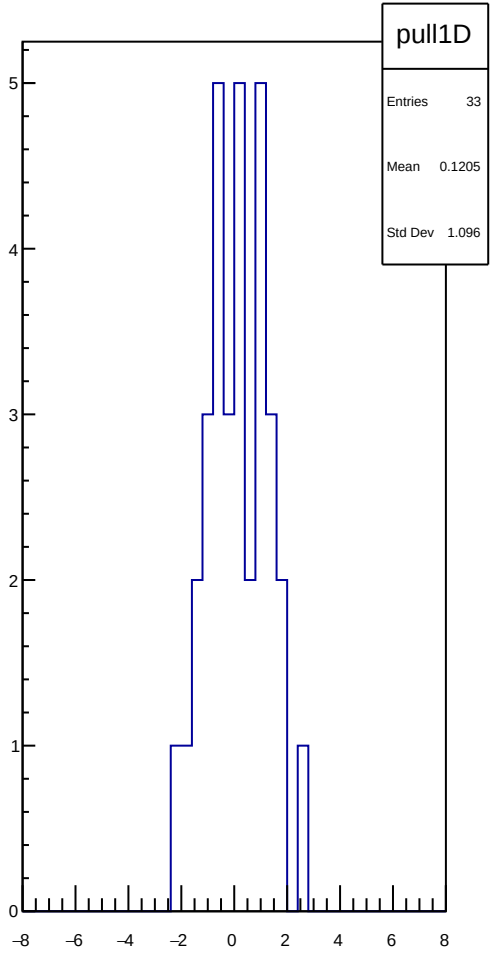

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 4.752e+04 / 32
p0 458.8 ± 0.5901
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

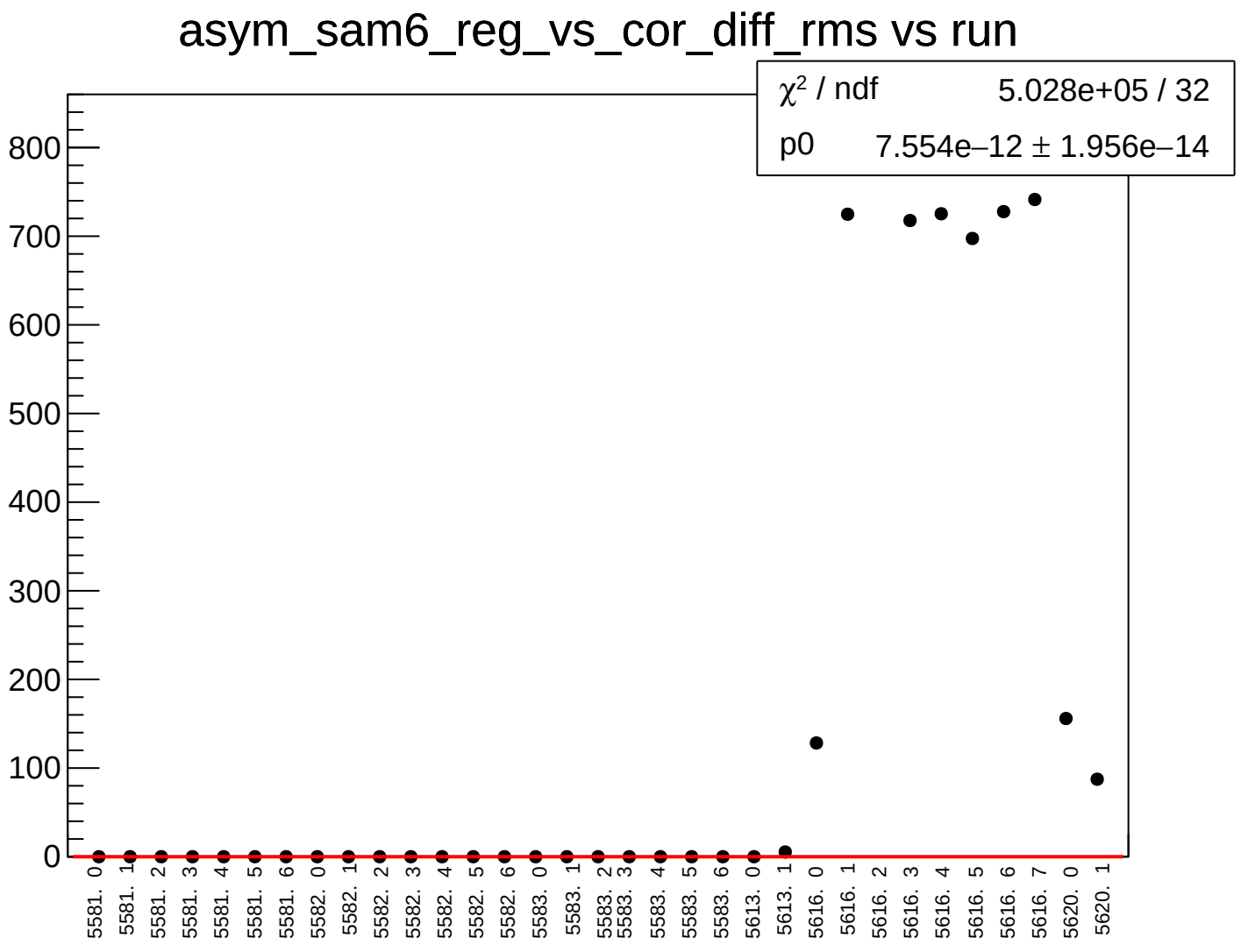

asym_sam6_mean vs run
χ² / ndf 27.44 / 32
p0 144.5 ± 818.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 63.59
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

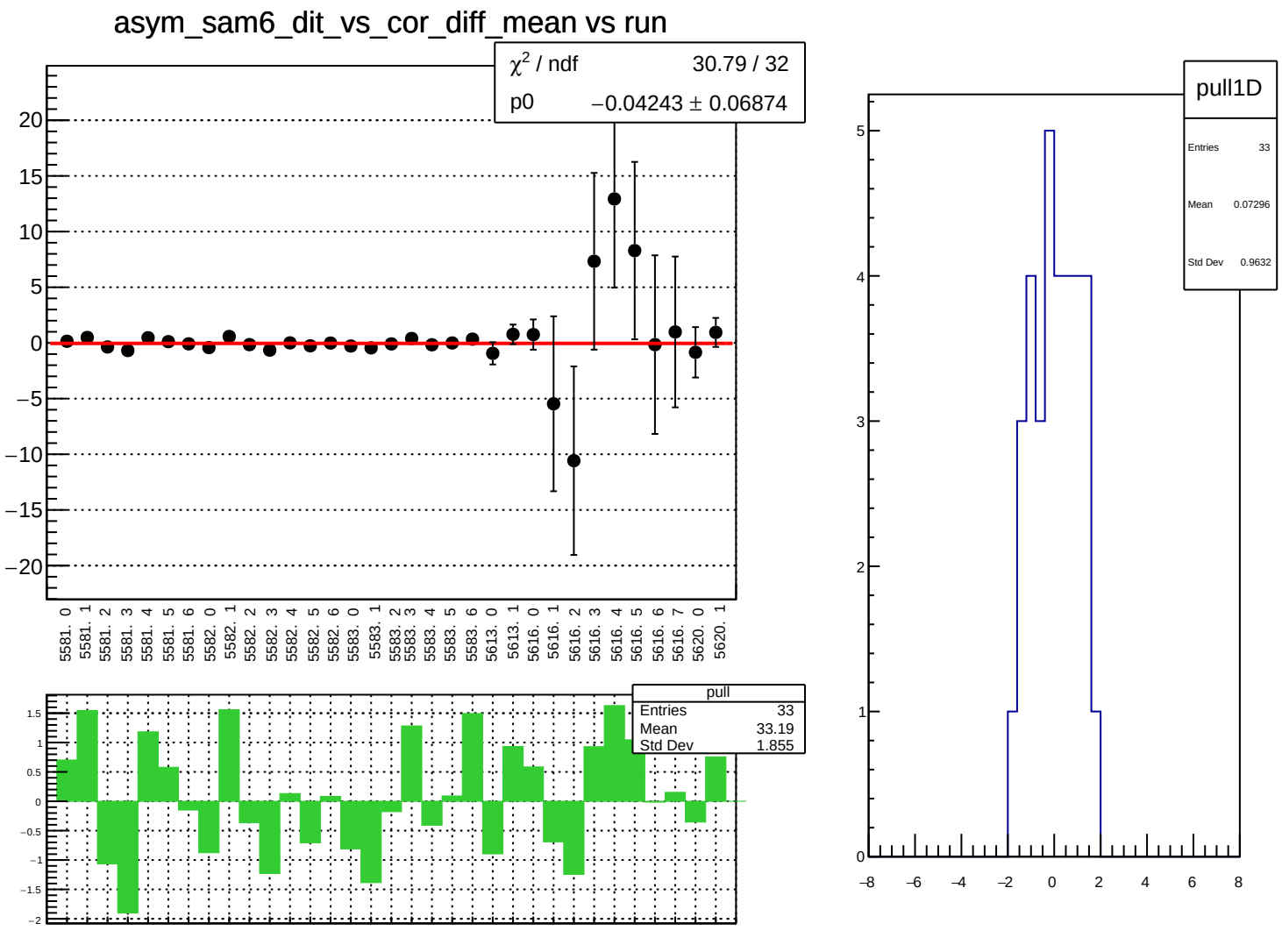

pull1D
Entries 33
Mean −0.02316
Std Dev 0.9116
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

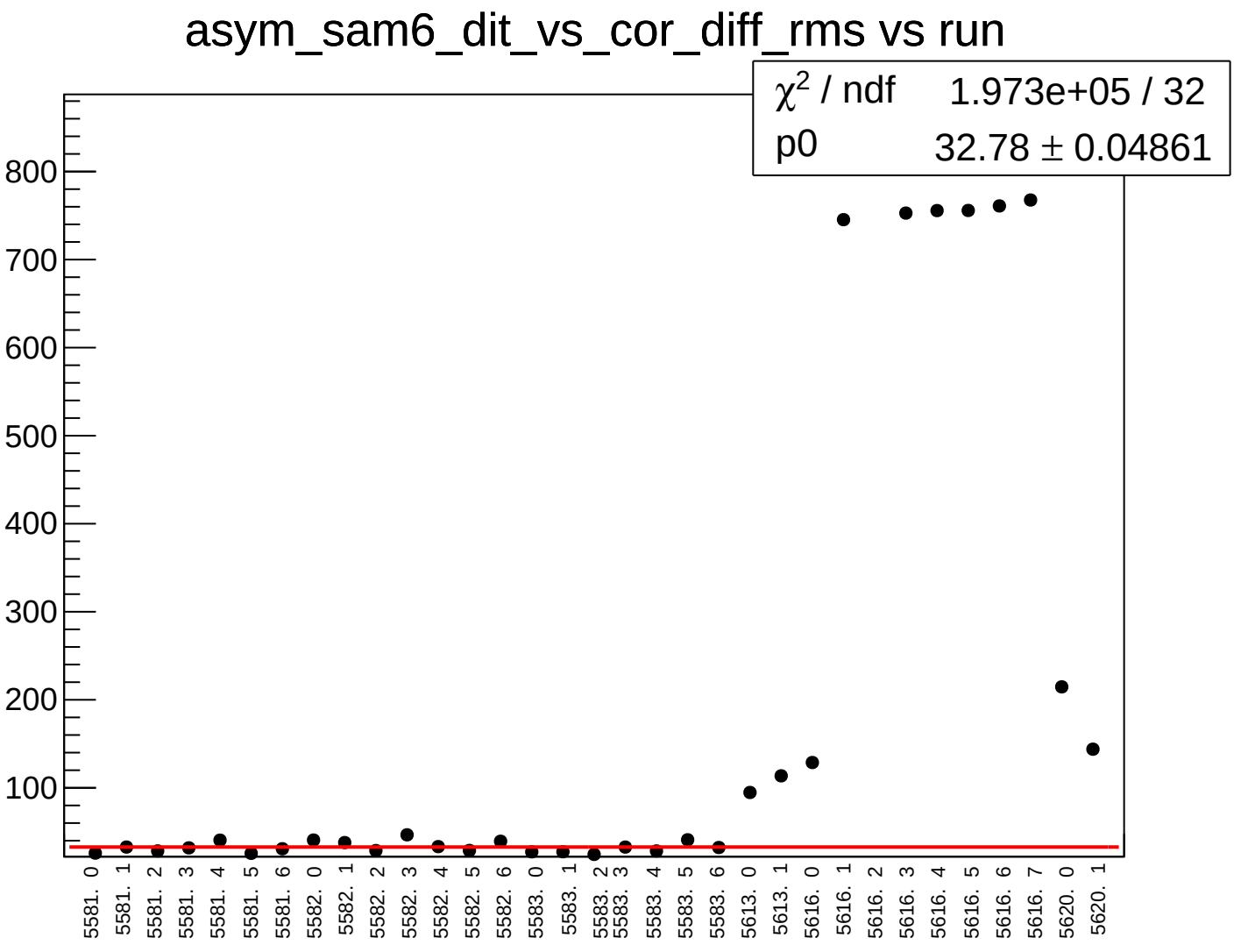

asym_sam6_rms vs run
χ² / ndf 4.579e+04 / 32
p0 450.6 ± 0.5788
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

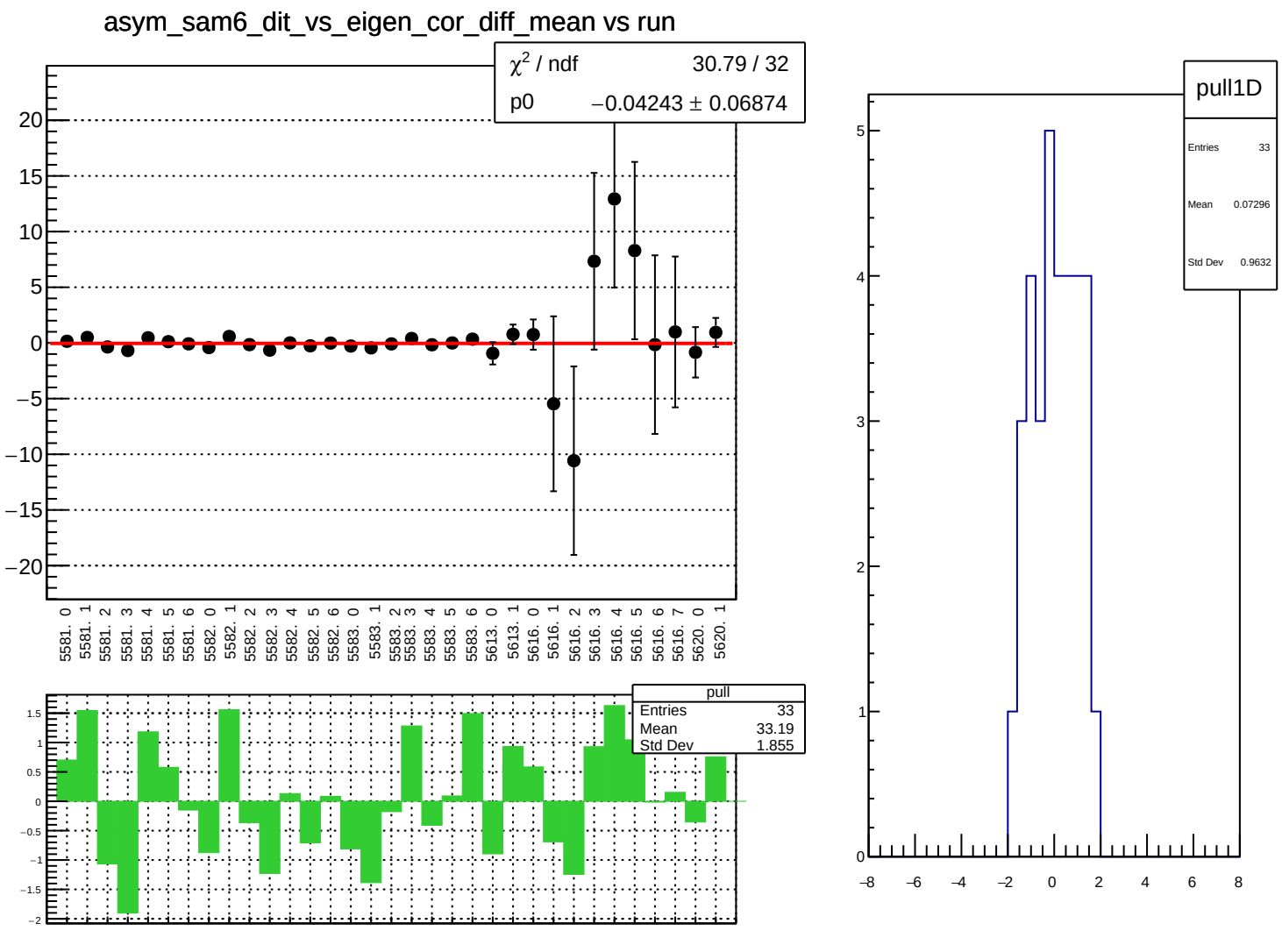

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 40.15 / 32
p0 −1.271e−14 ± 2.766e−14
20
15
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 25.84
Std Dev 10.05
2
1
0
−1
−2

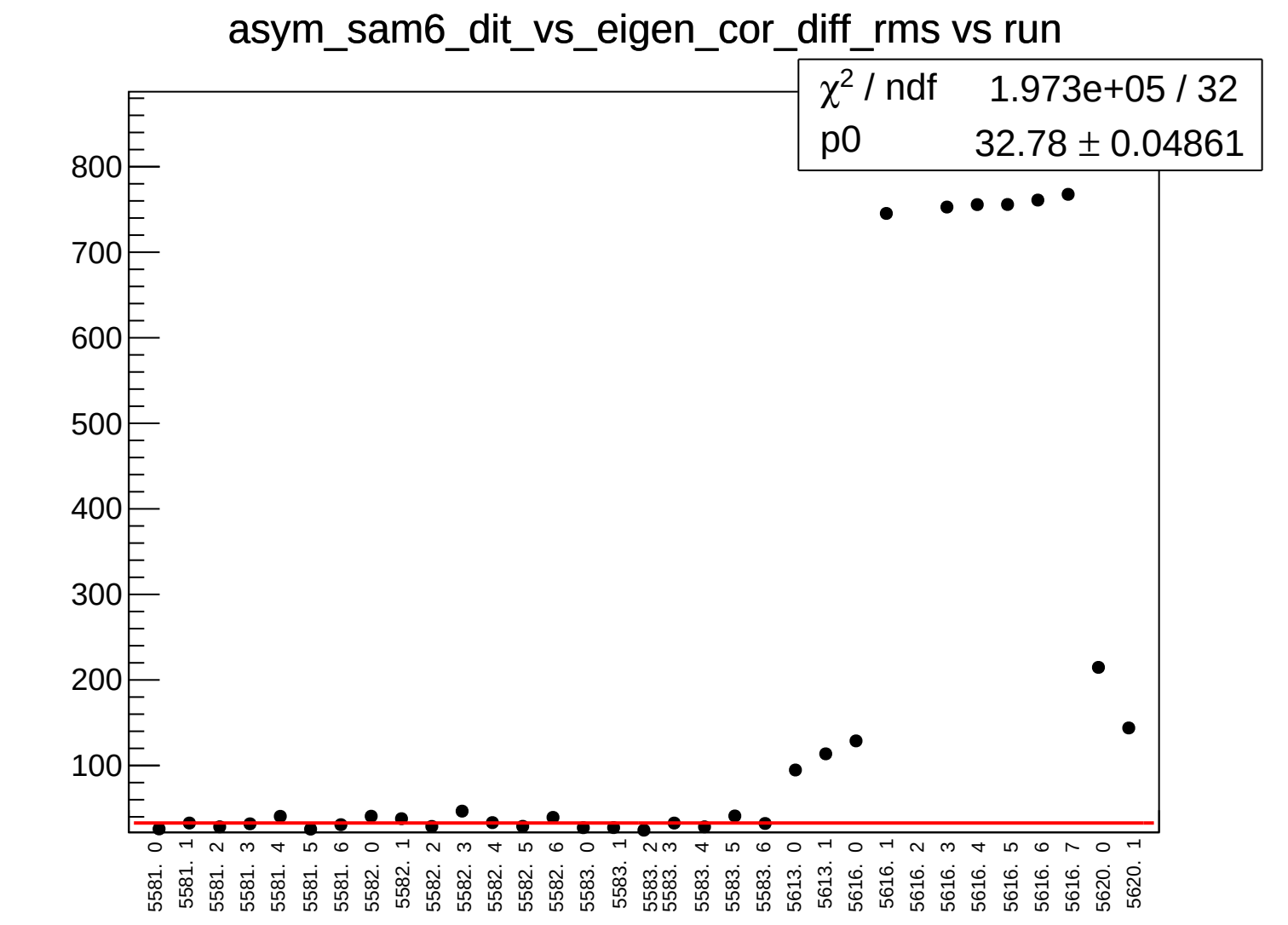

pull1D
Entries 33
Mean 0.1205
Std Dev 1.096
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

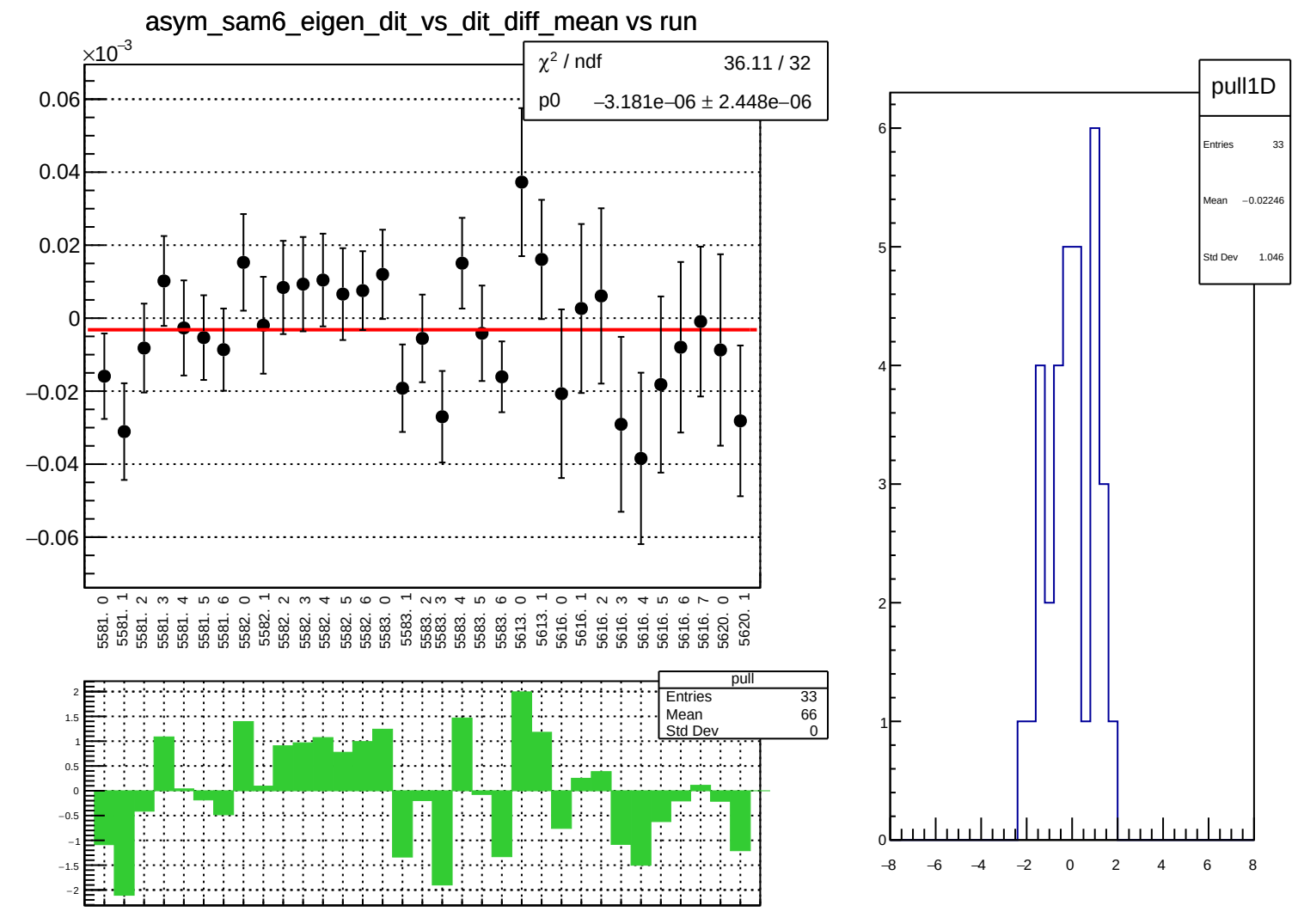

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 5.028e+05 / 32
p0 7.554e−12 ± 1.956e−14
800
700
600
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

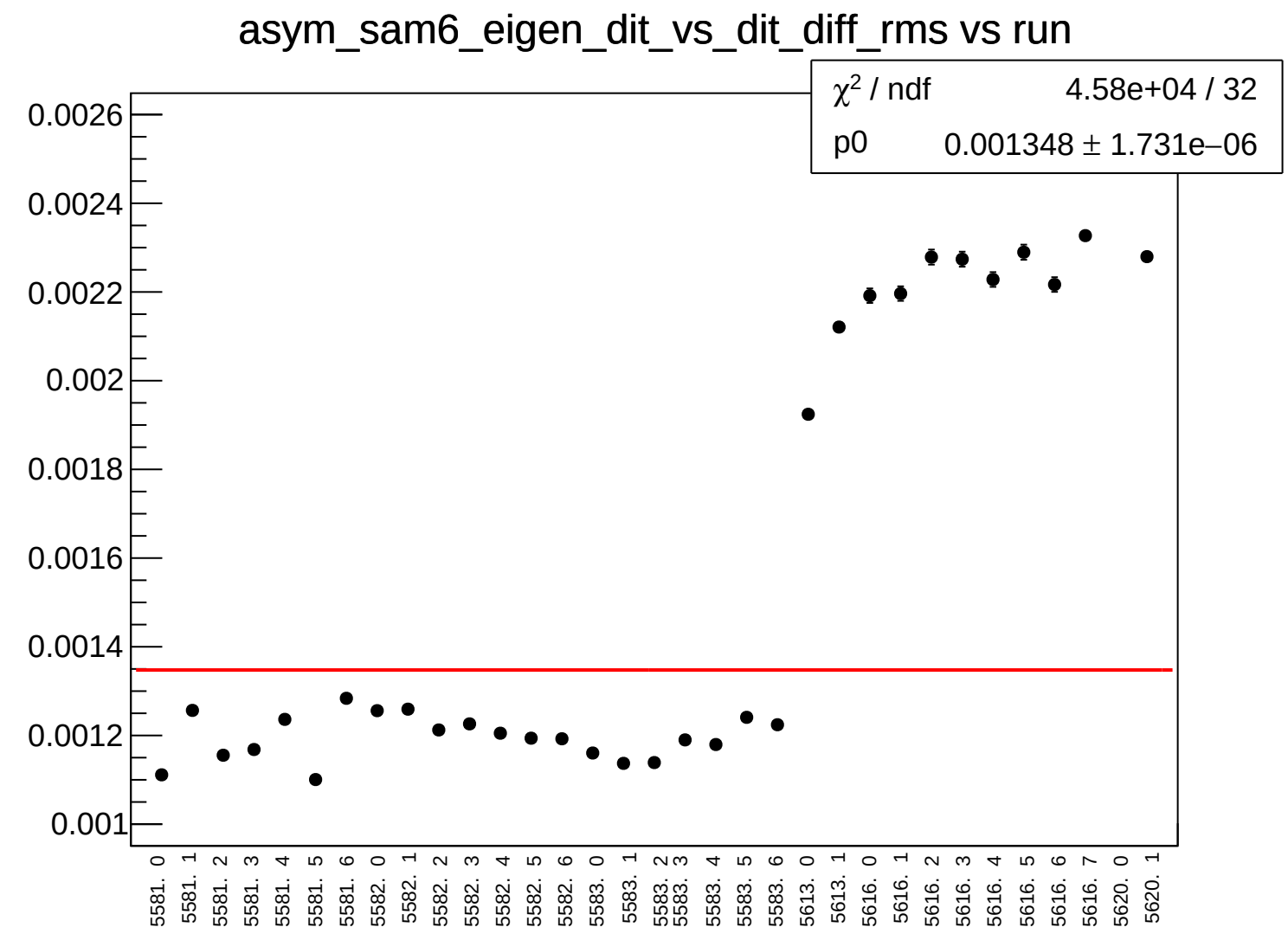

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 30.79 / 32
p0 −0.04243 ± 0.06874
pull
Entries 33
Mean 33.19
Std Dev 1.855
pull1D
Entries 33
Mean 0.07296
Std Dev 0.9632

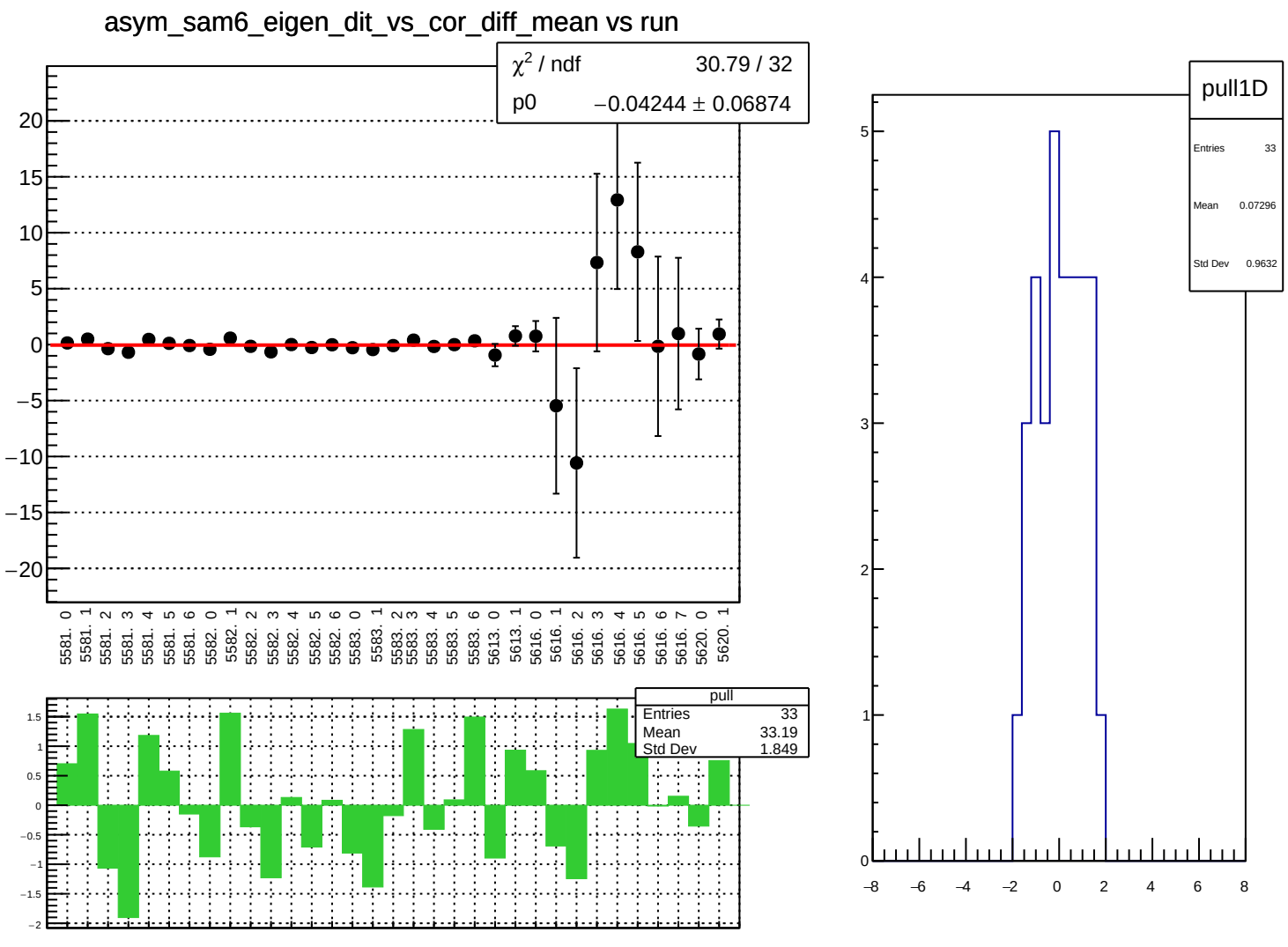

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 1.973e+05 / 32
p0 32.78 ± 0.04861
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

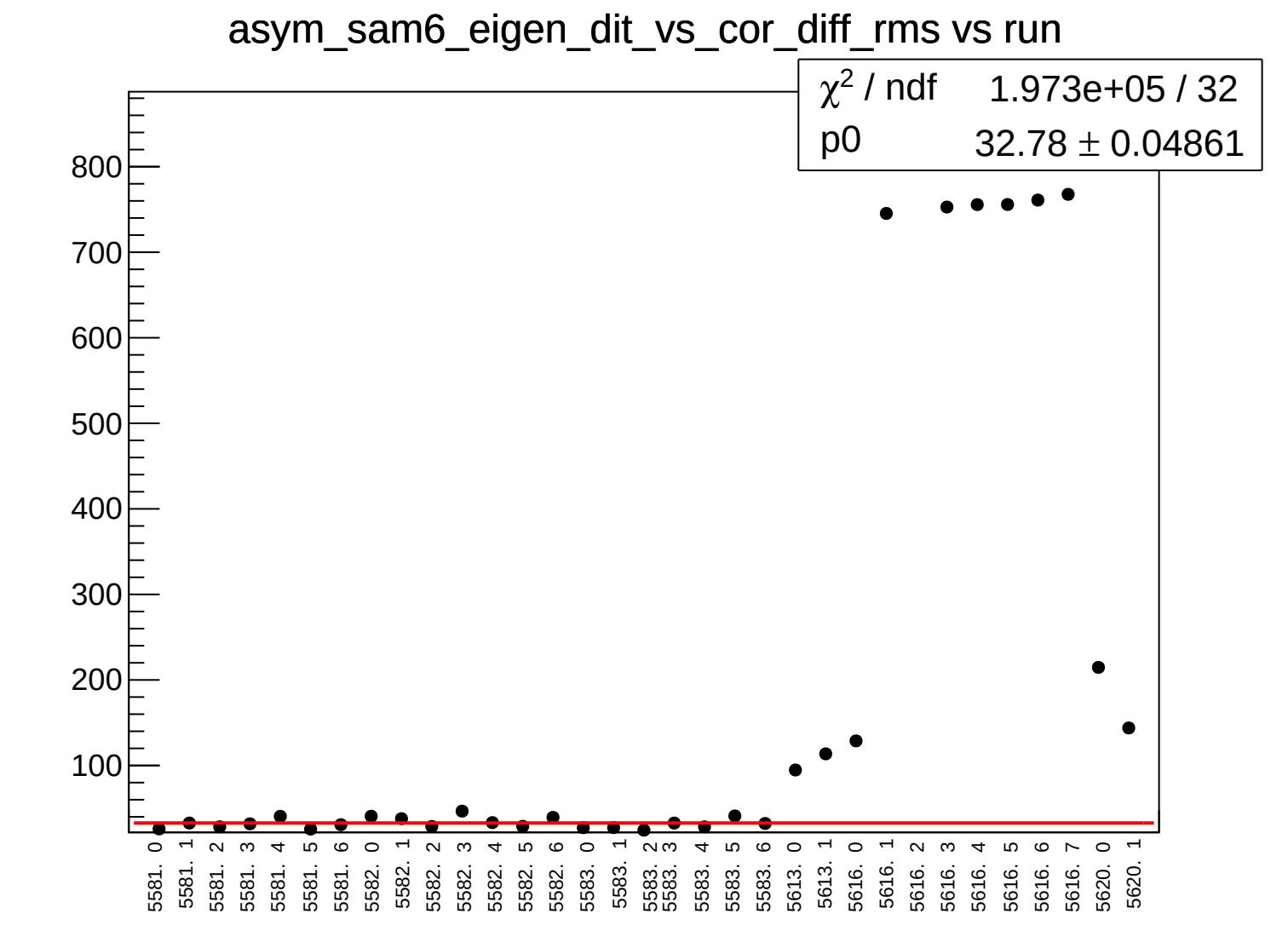

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.79 / 32
p0 −0.04243 ± 0.06874
20
15
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 33.19
Std Dev 1.855
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.07296
Std Dev 0.9632
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

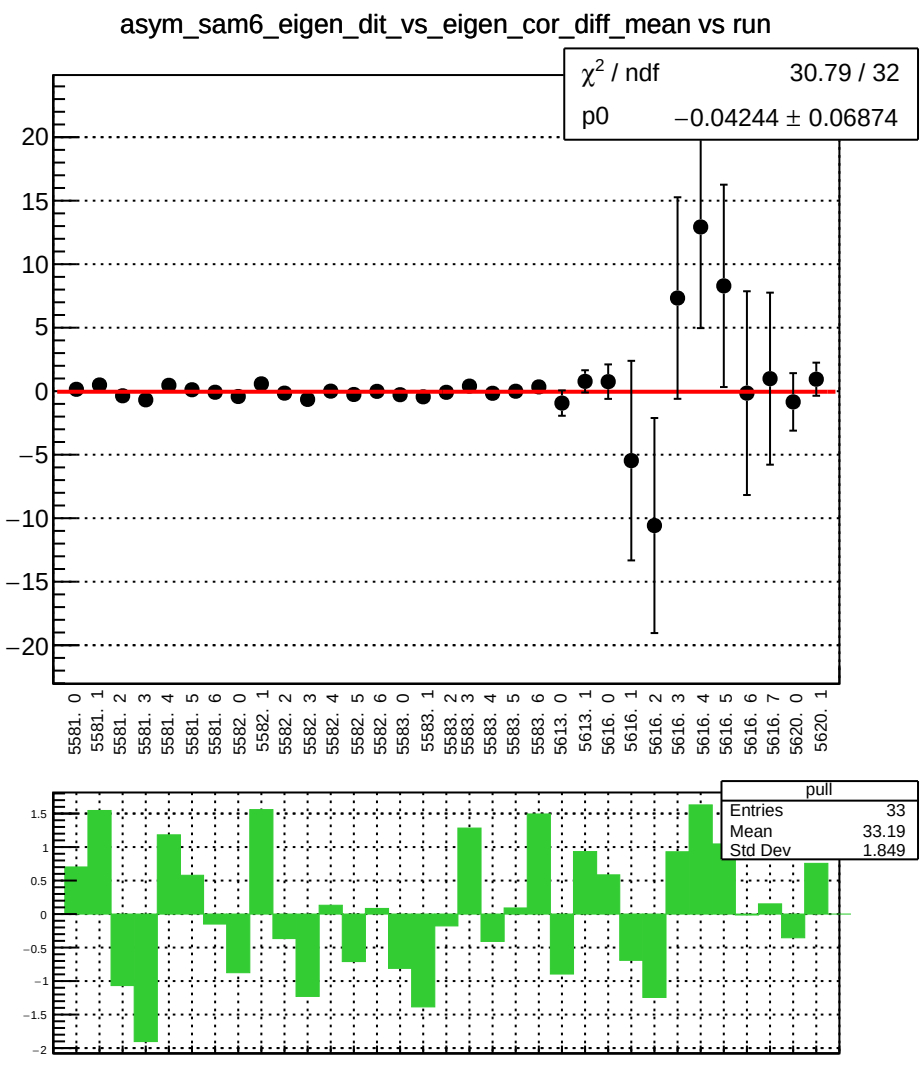

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.973e+05 / 32
p0 32.78 ± 0.04861
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

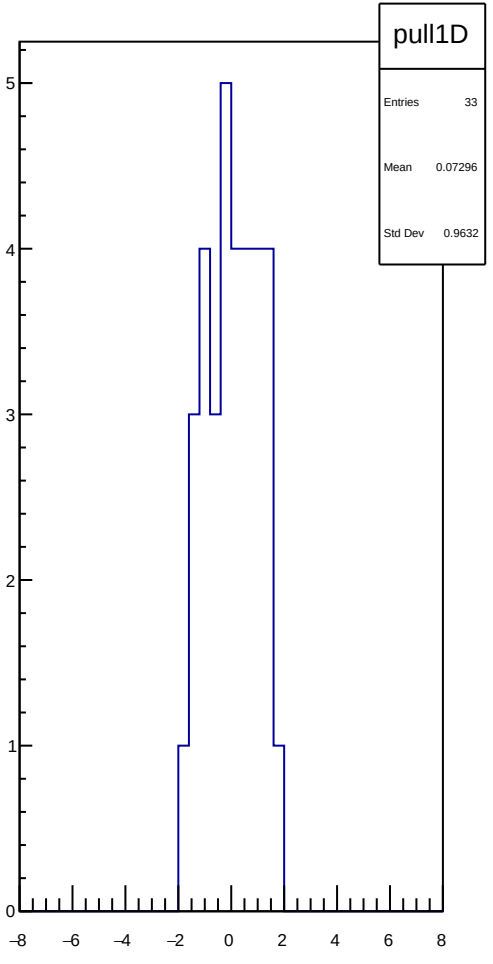

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.11 / 32
p0 −3.181e−06 ± 2.448e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02246
Std Dev 1.046
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

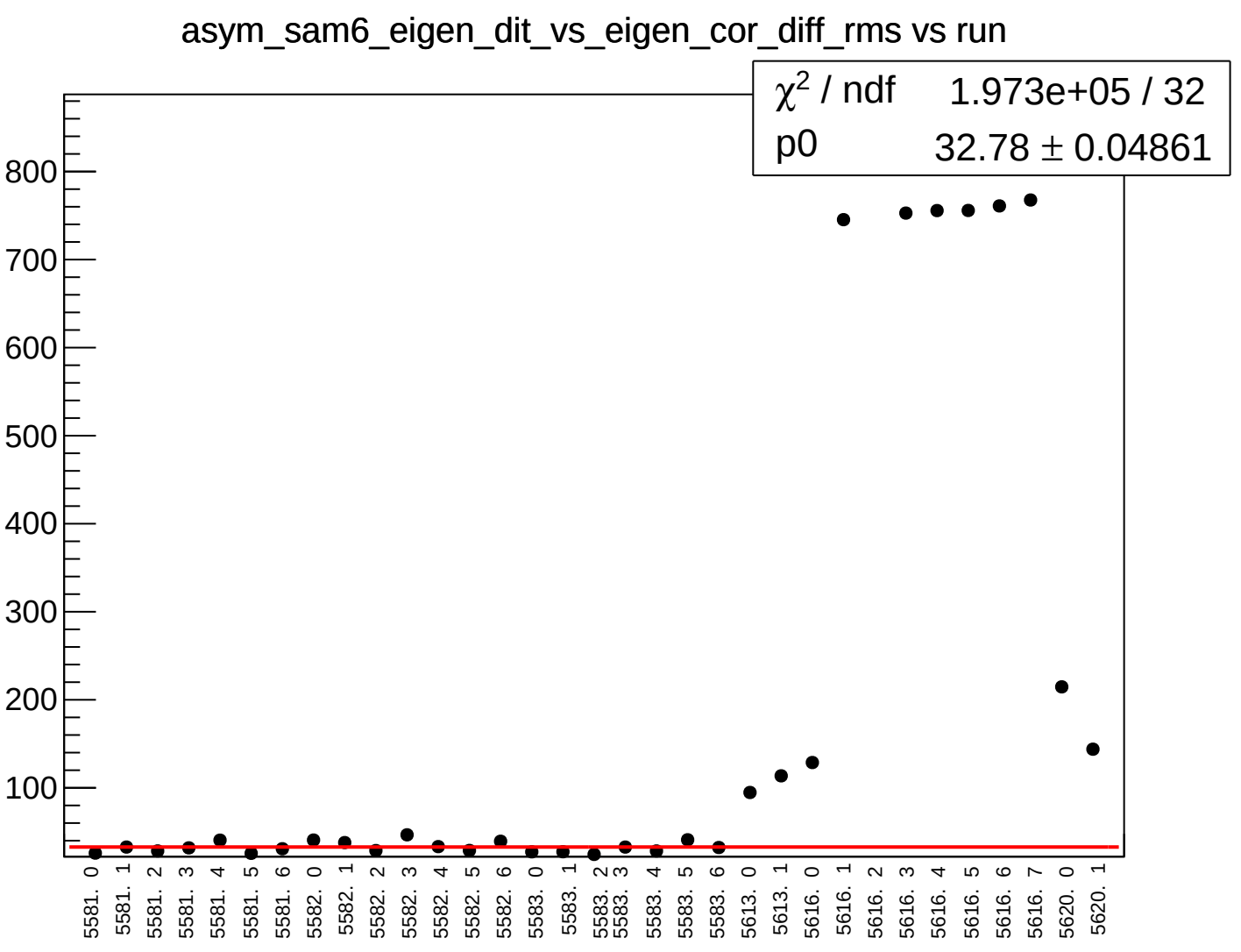

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.58e+04 / 32
p0 0.001348 ± 1.731e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

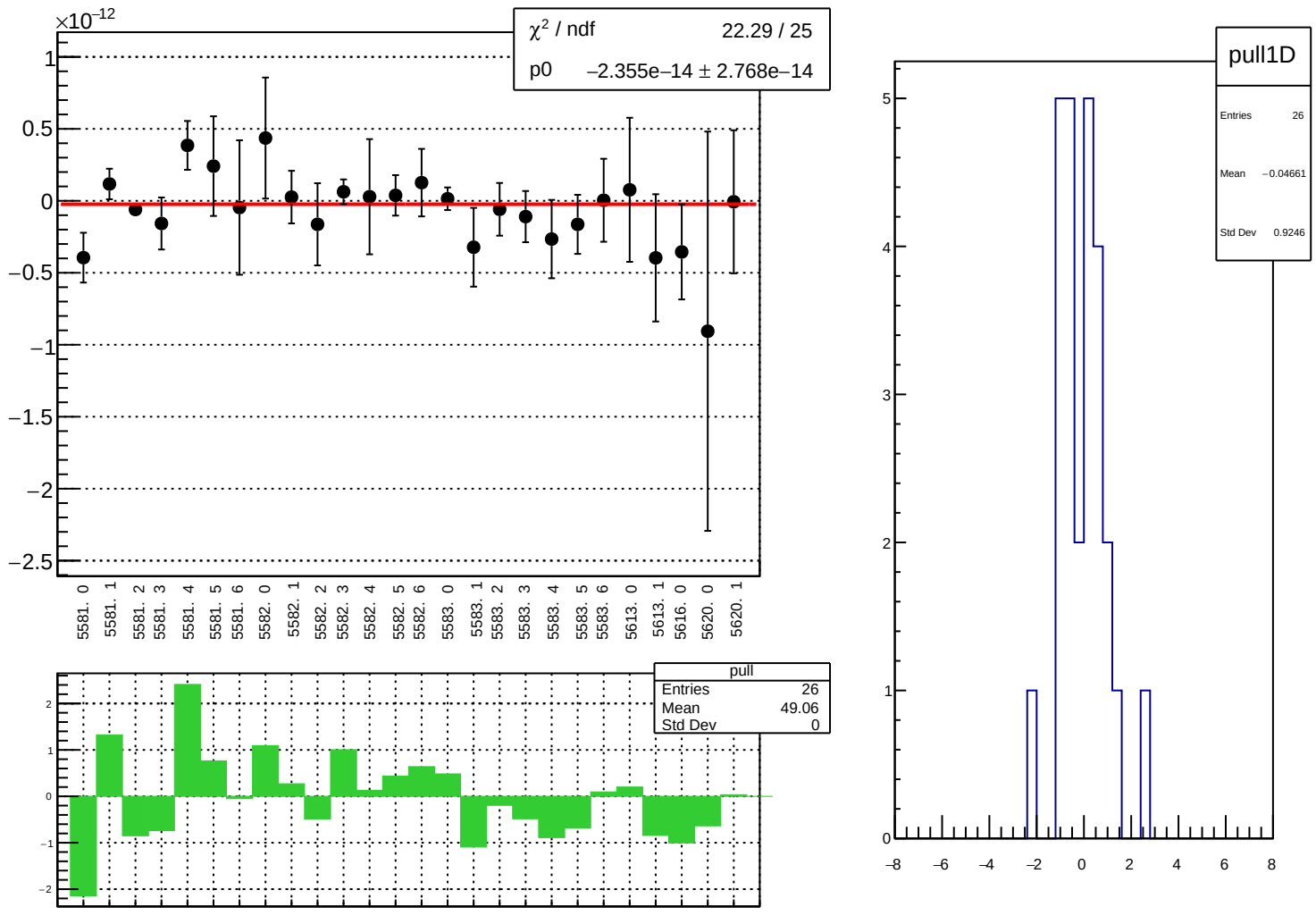

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.79 / 32
p0 −0.04244 ± 0.06874
pull
Entries 33
Mean 33.19
Std Dev 1.849
pull1D
Entries 33
Mean 0.07296
Std Dev 0.9632

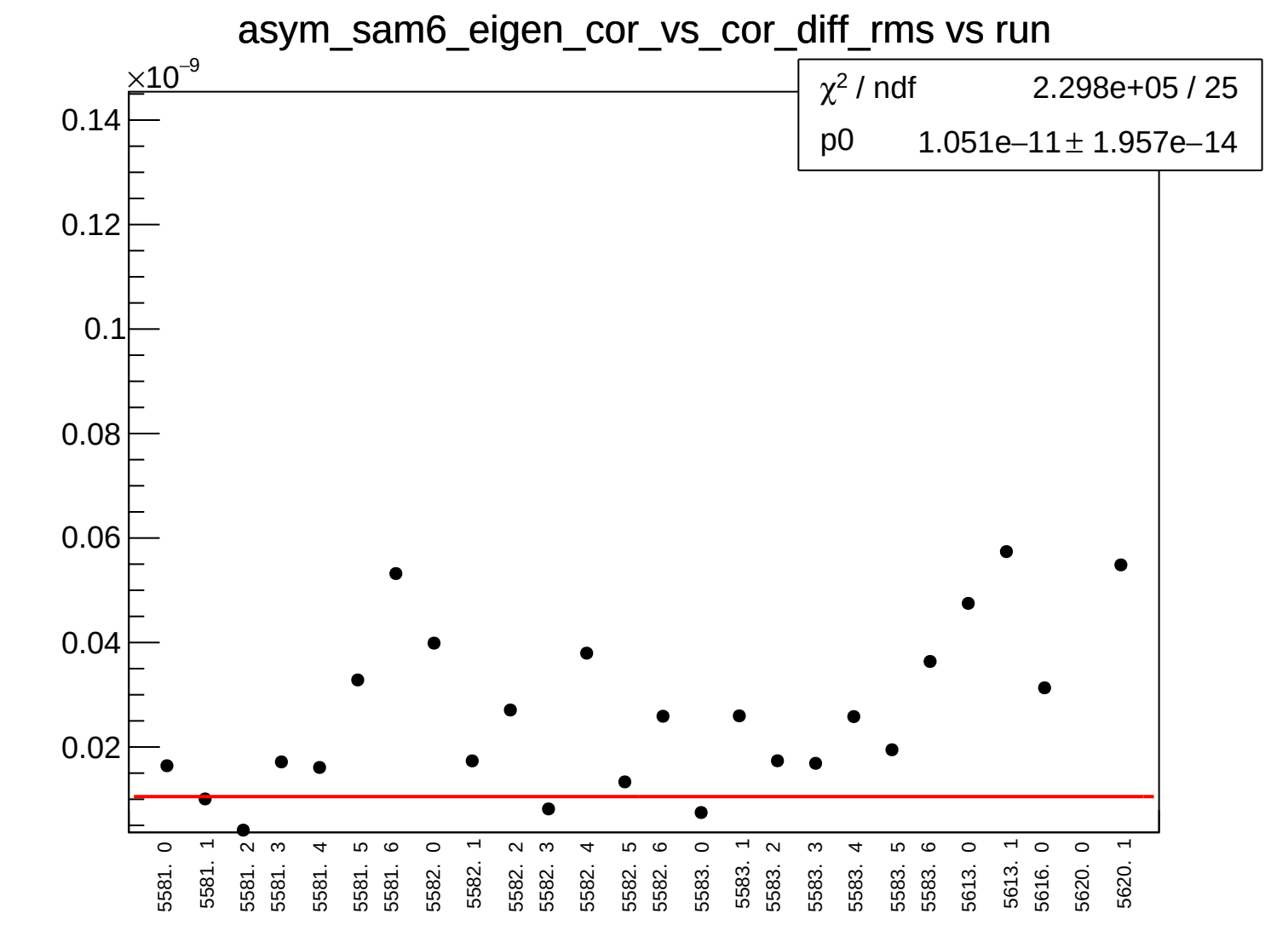

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.973e+05 / 32
p0 32.78 ± 0.04861
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

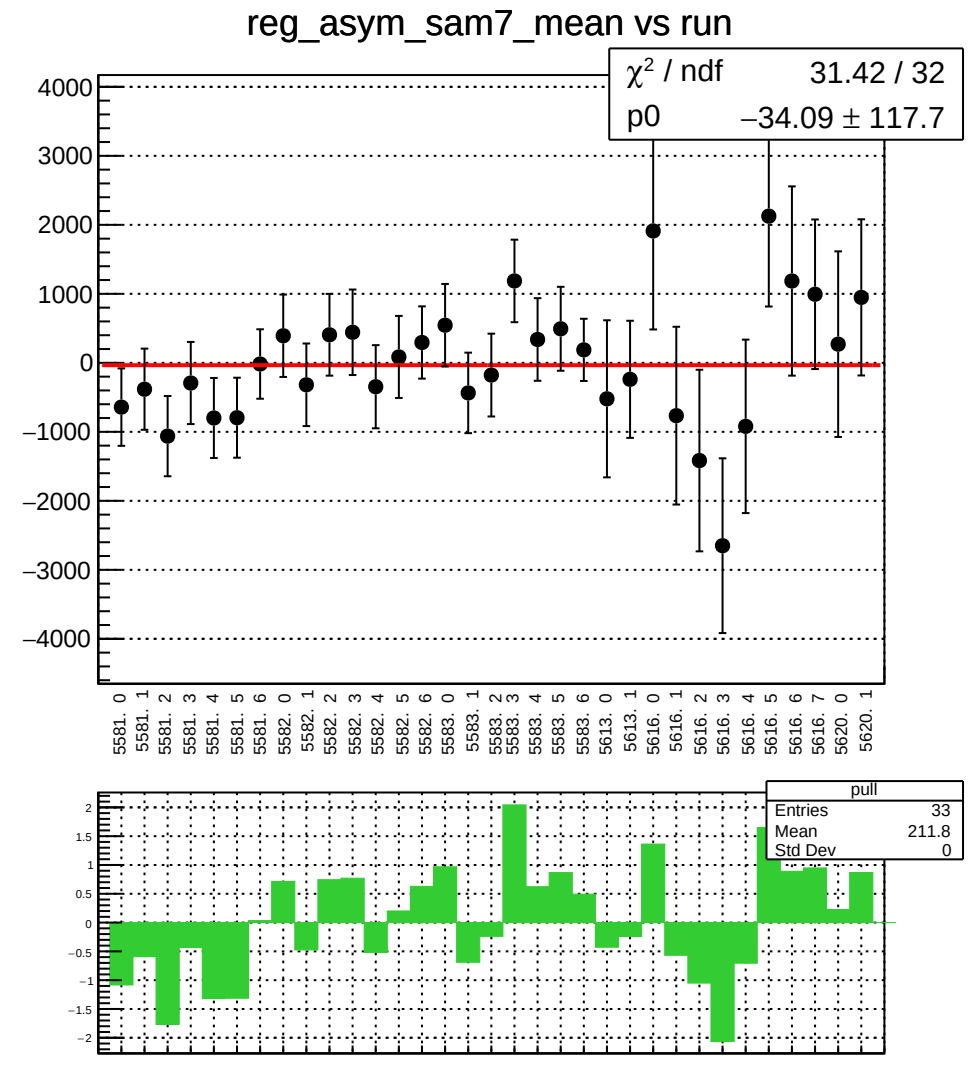

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.79 / 32
p0 −0.04244 ± 0.06874
pull
Entries 33
Mean 33.19
Std Dev 1.849

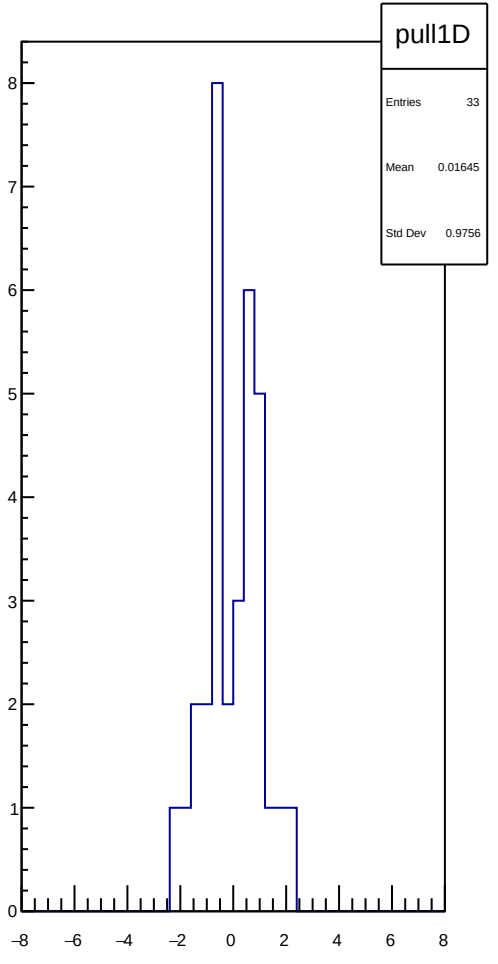

pull1D
Entries 33
Mean 0.07296
Std Dev 0.9632

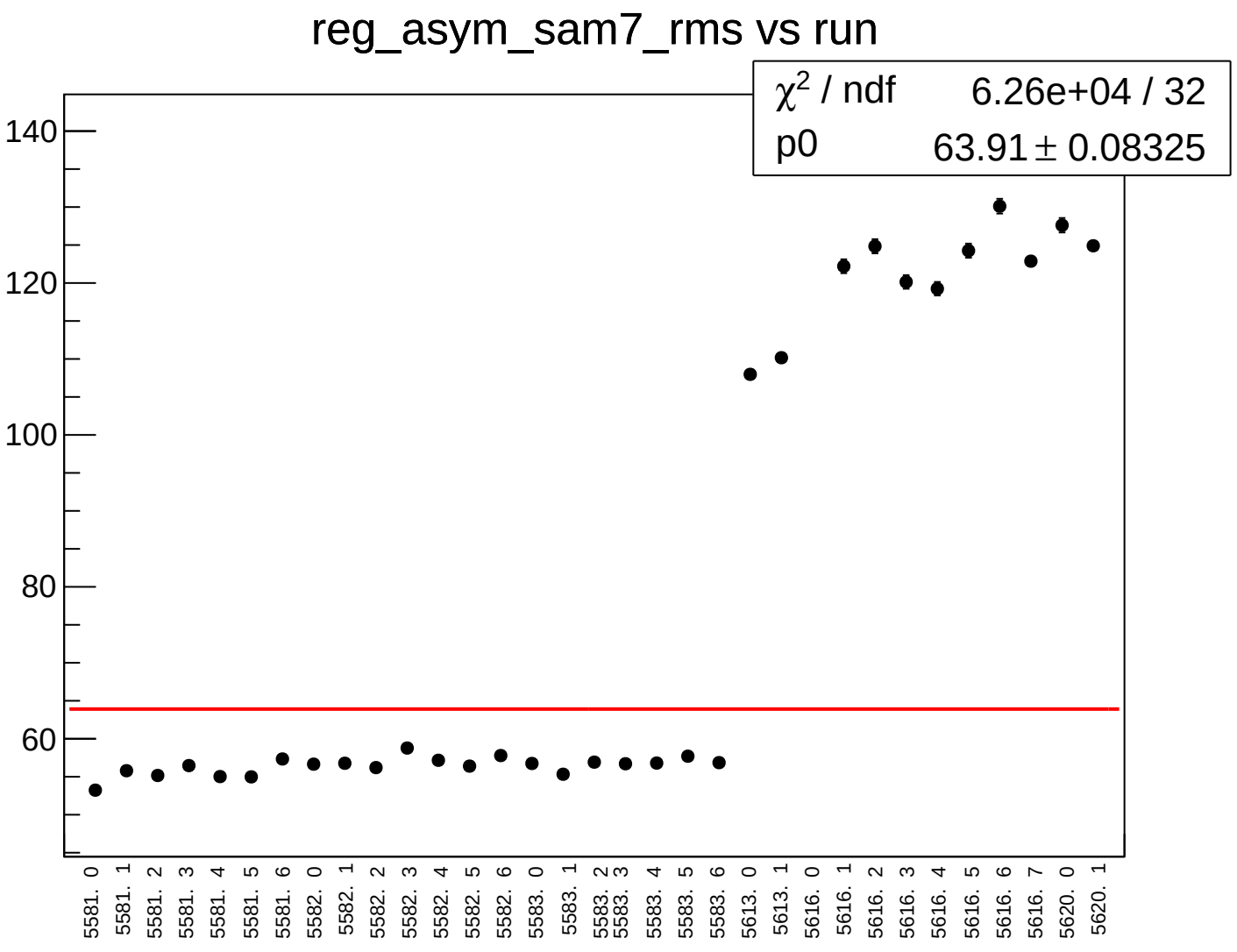

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.973e+05 / 32
p0 32.78 ± 0.04861
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

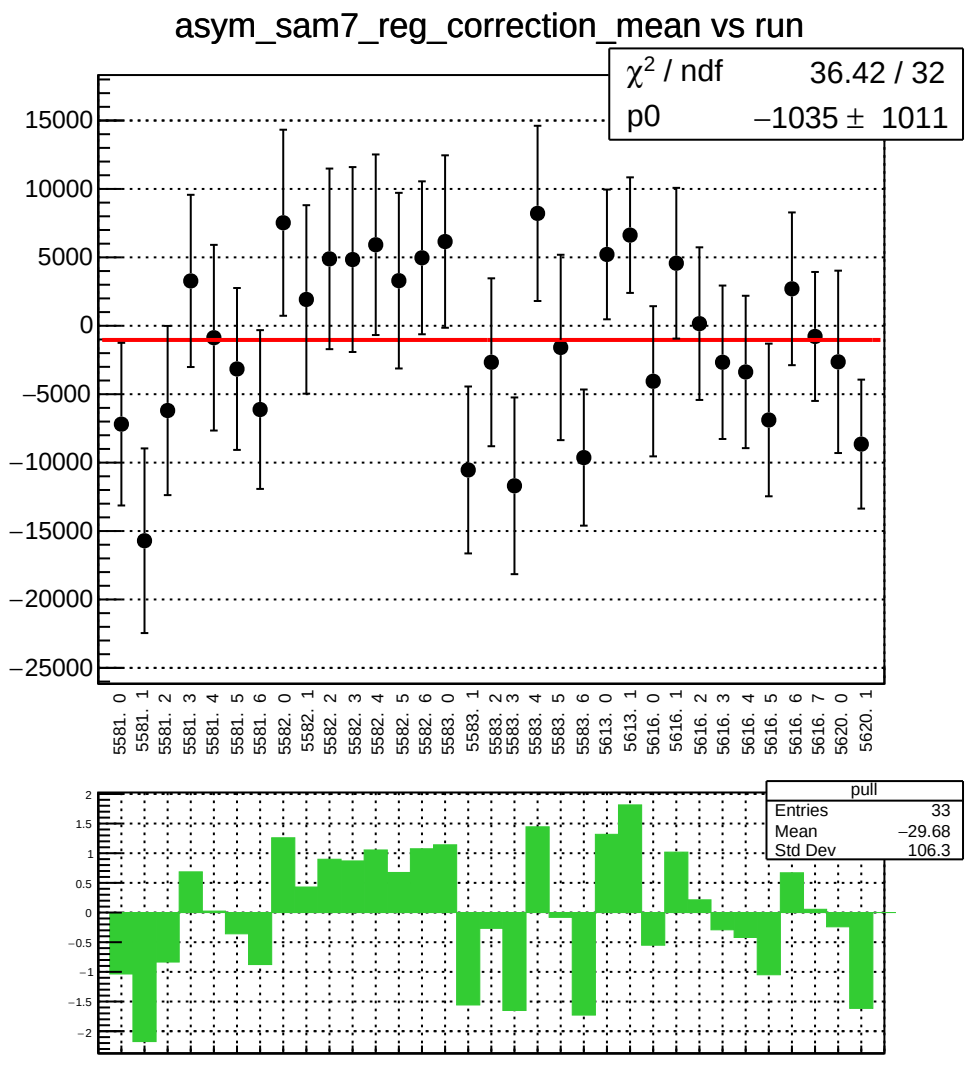

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 22.29 / 25
p0 −2.355e−14 ± 2.768e−14
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 49.06
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 26
Mean −0.04661
Std Dev 0.9246
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

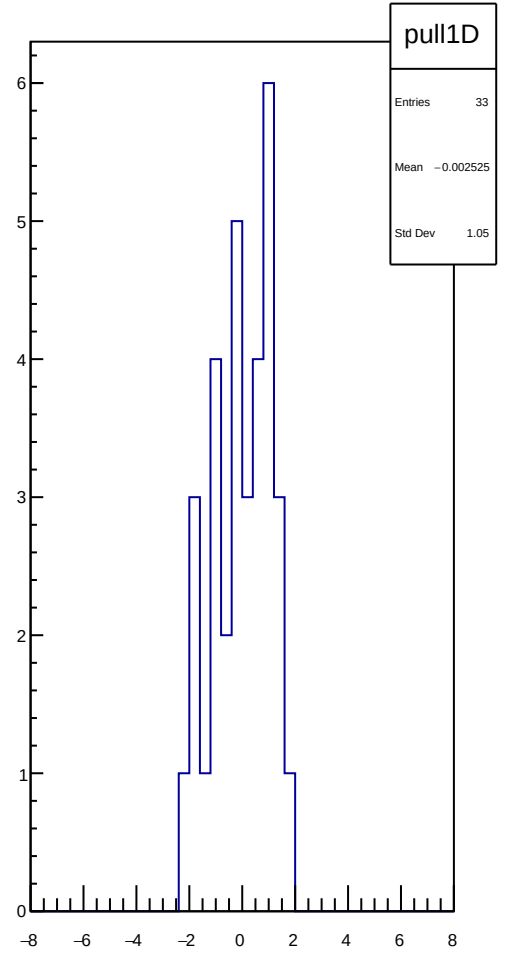

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.298e+05 / 25
p0 1.051e−11 ± 1.957e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

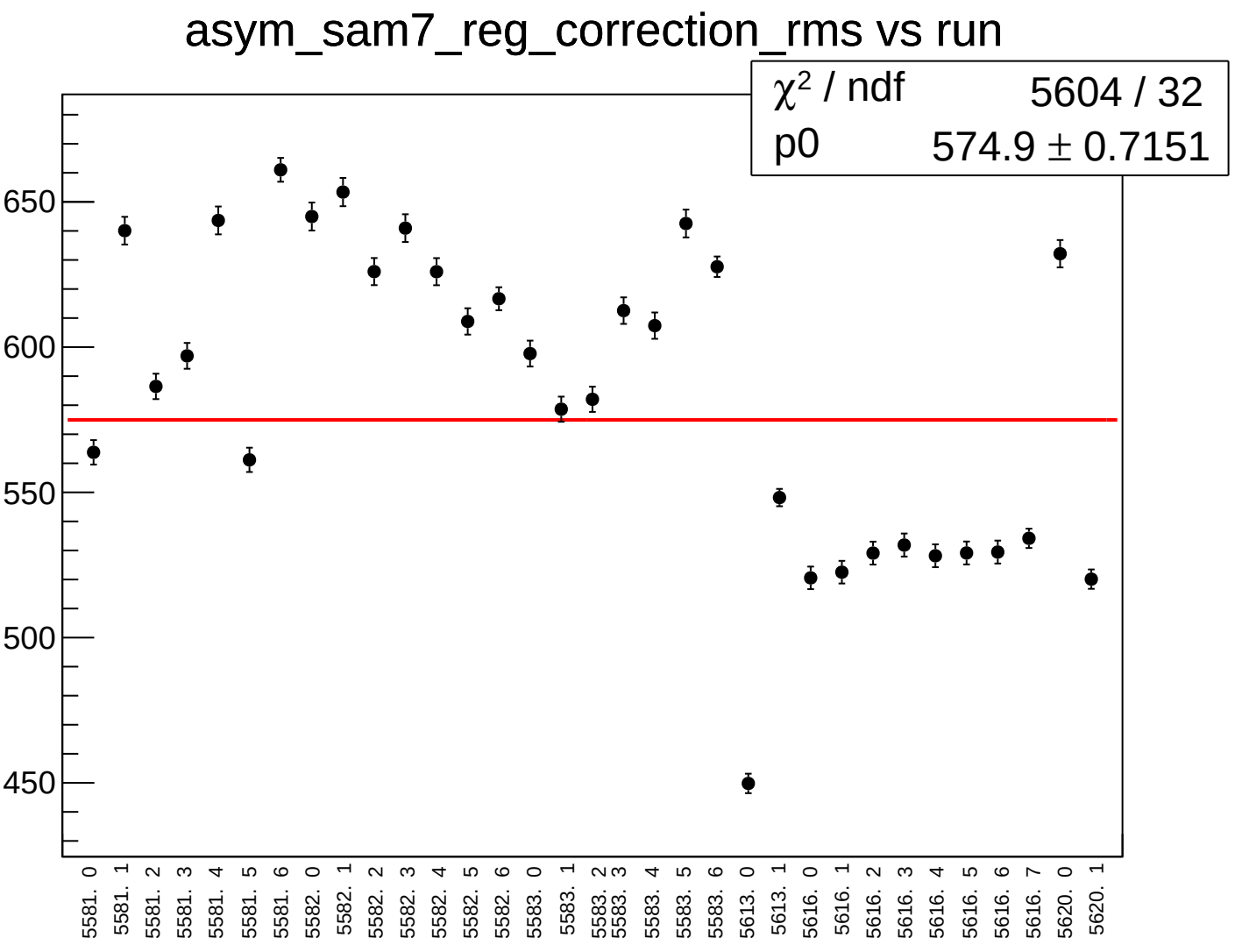

reg_asym_sam7_mean vs run
χ² / ndf 31.42 / 32
p0 −34.09 ± 117.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 211.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

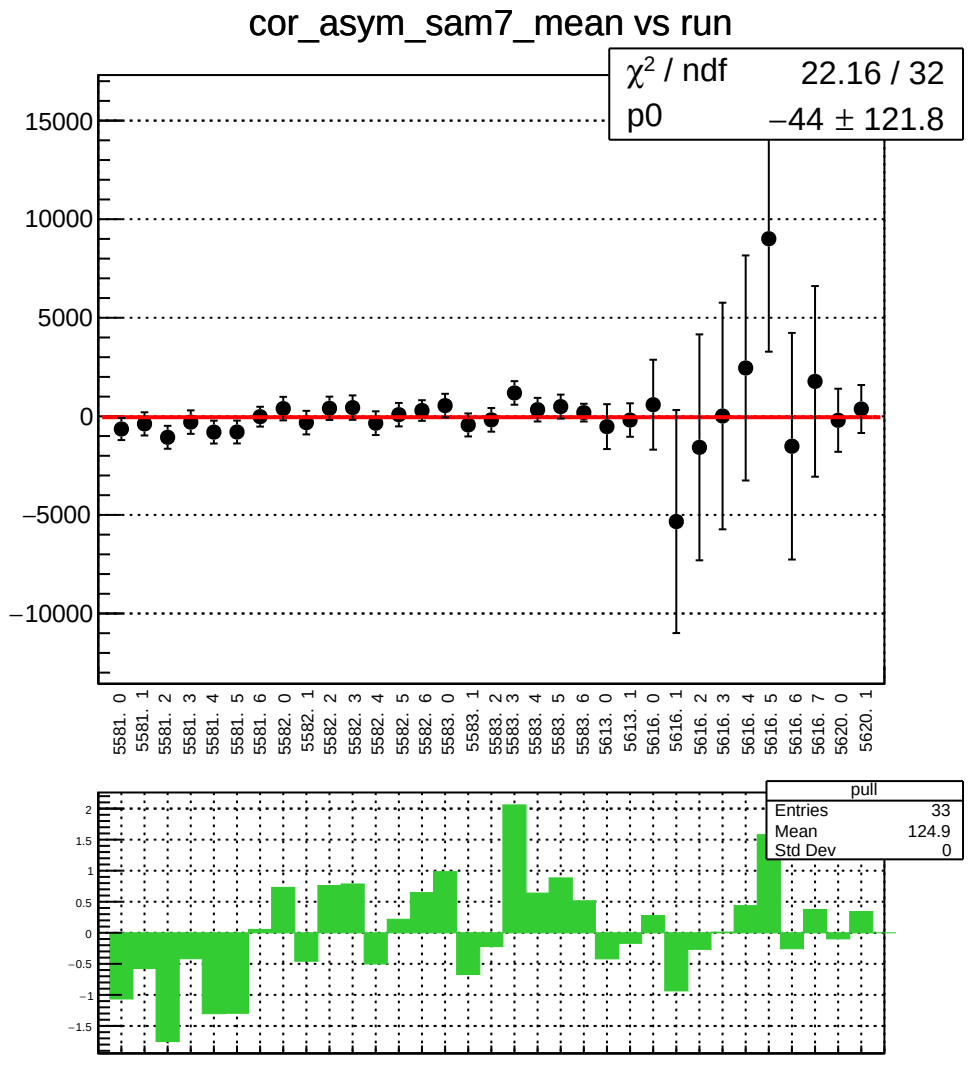

pull1D
Entries 33
Mean 0.01645
Std Dev 0.9756
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

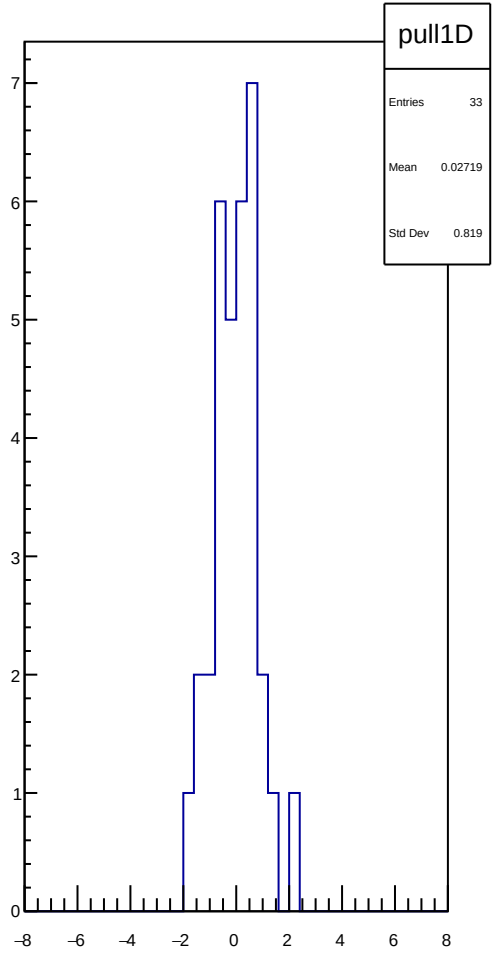

reg_asym_sam7_rms vs run
χ² / ndf 6.26e+04 / 32
p0 63.91 ± 0.08325
140
120
100
80
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

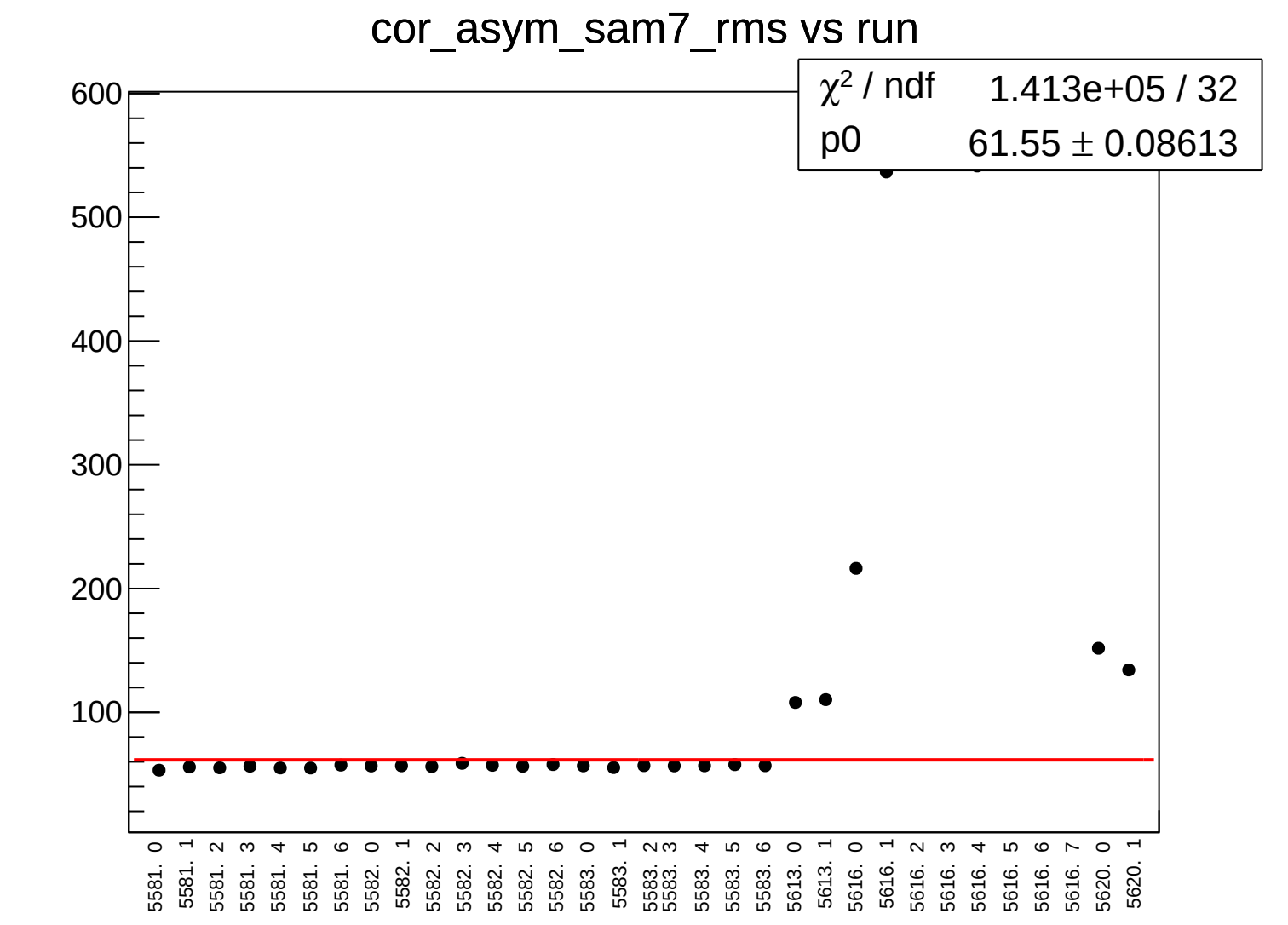

asym_sam7_reg_correction_mean vs run
χ² / ndf 36.42 / 32
p0 −1035 ± 1011
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −29.68
Std Dev 106.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

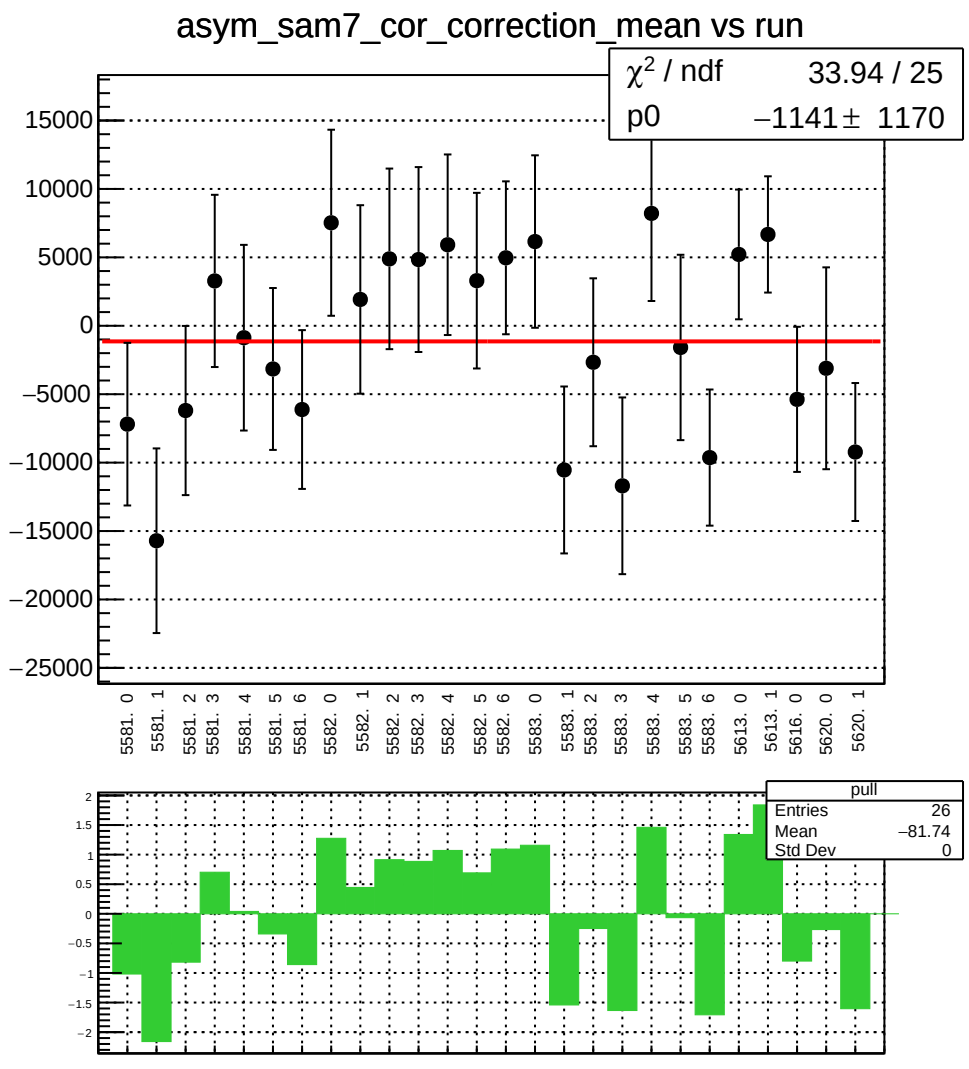

pull1D
Entries 33
Mean −0.002525
Std Dev 1.05
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

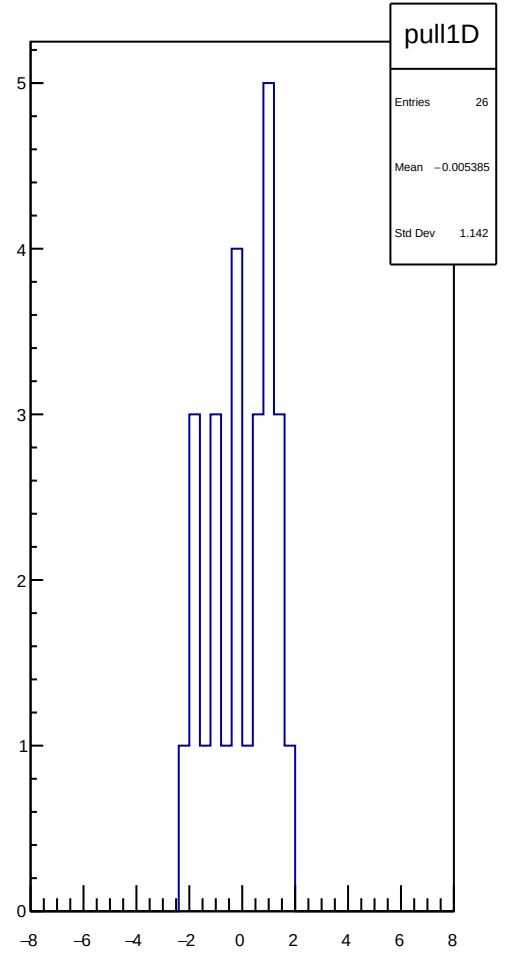

asym_sam7_reg_correction_rms vs run
χ² / ndf 5604 / 32
p0 574.9 ± 0.7151
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

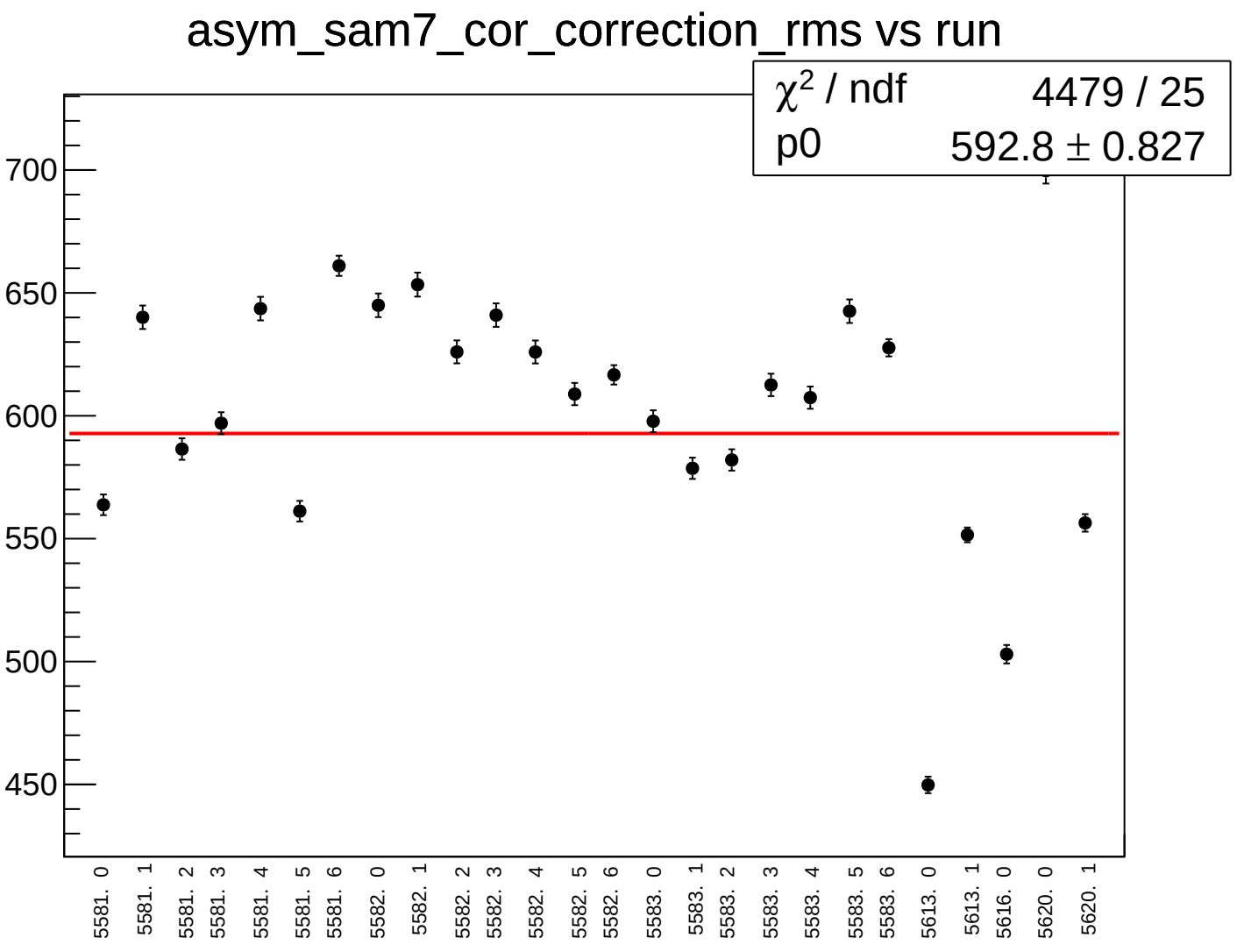

cor_asym_sam7_mean vs run
χ² / ndf 22.16 / 32
p0 −44 ± 121.8
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 124.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

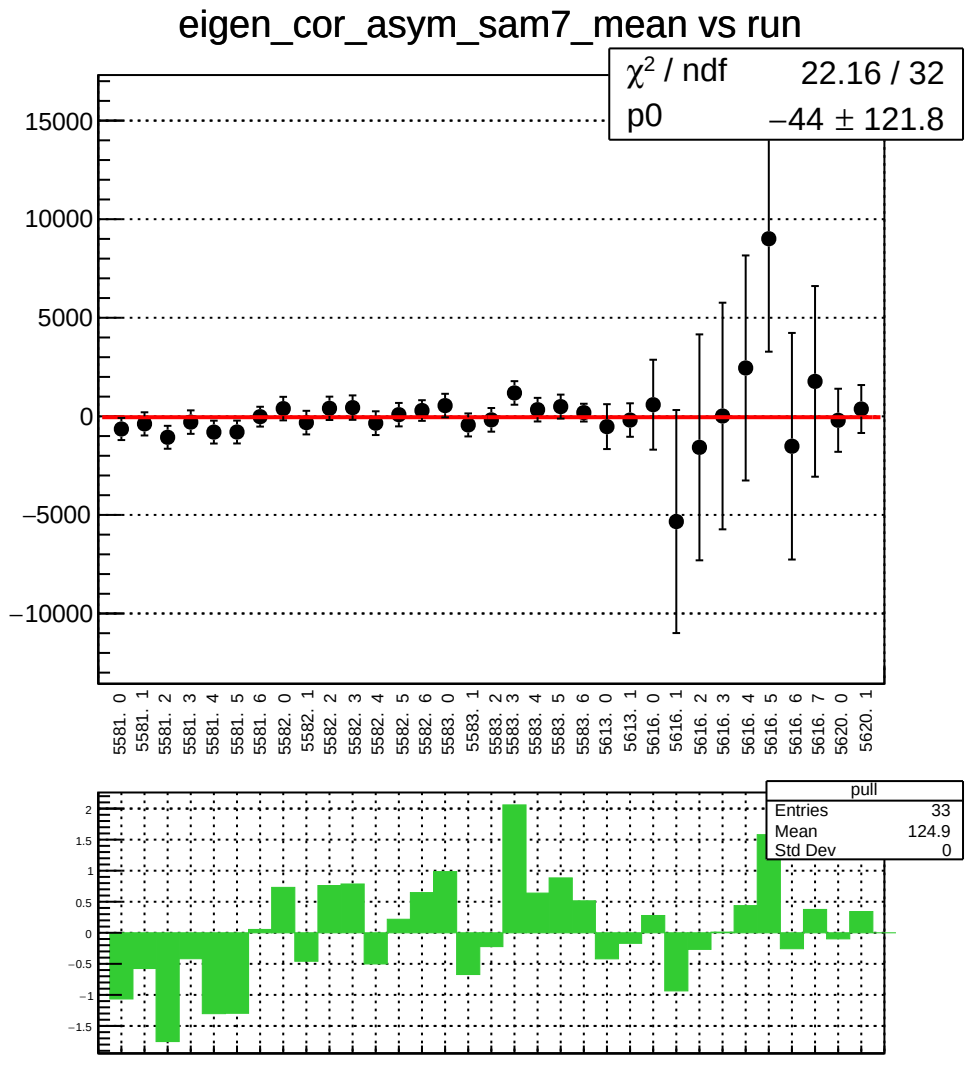

pull1D
Entries 33
Mean 0.02719
Std Dev 0.819
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

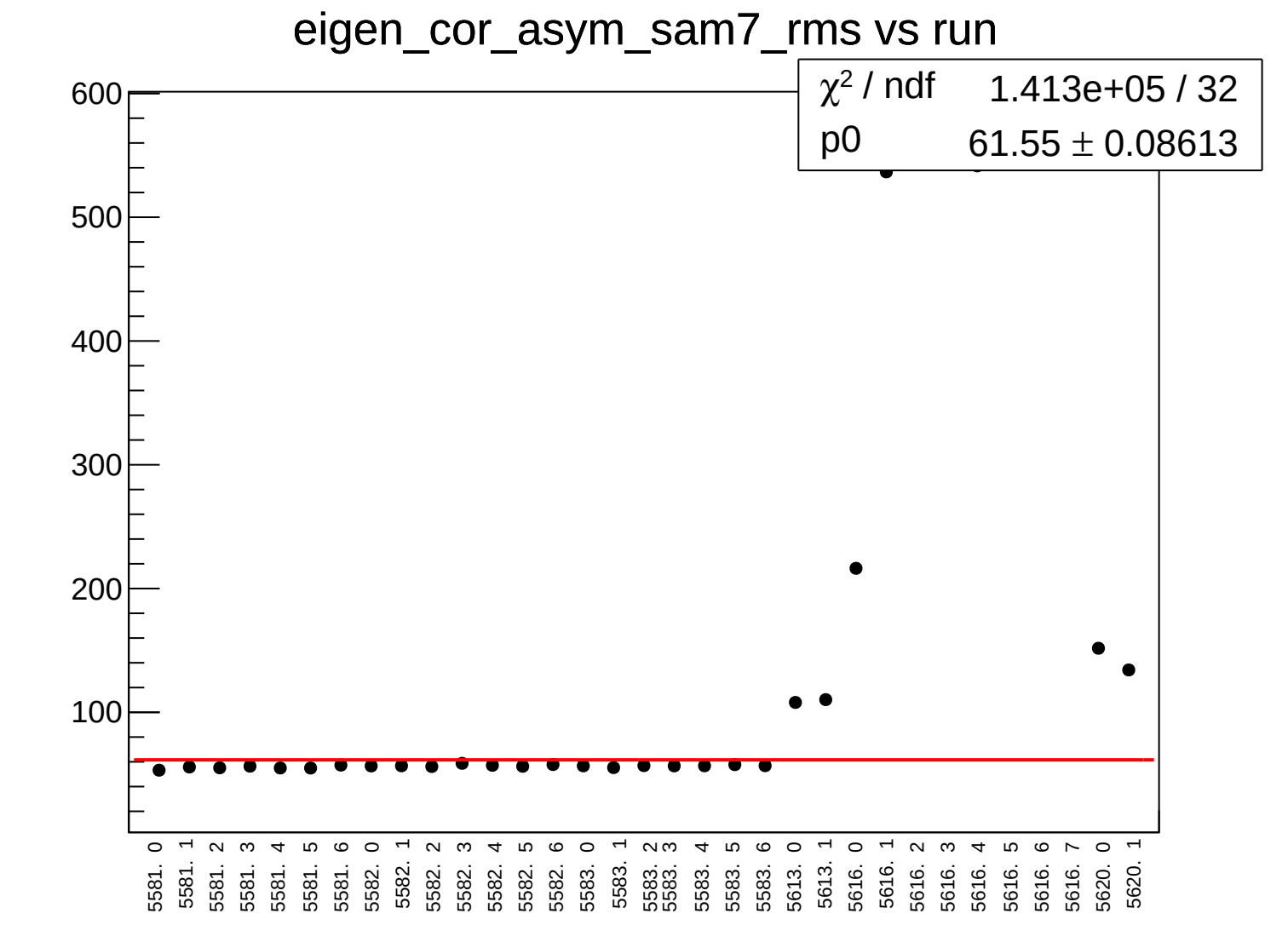

cor_asym_sam7_rms vs run
χ^2 / ndf 1.413e+05 / 32
p0 61.55 ± 0.08613
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

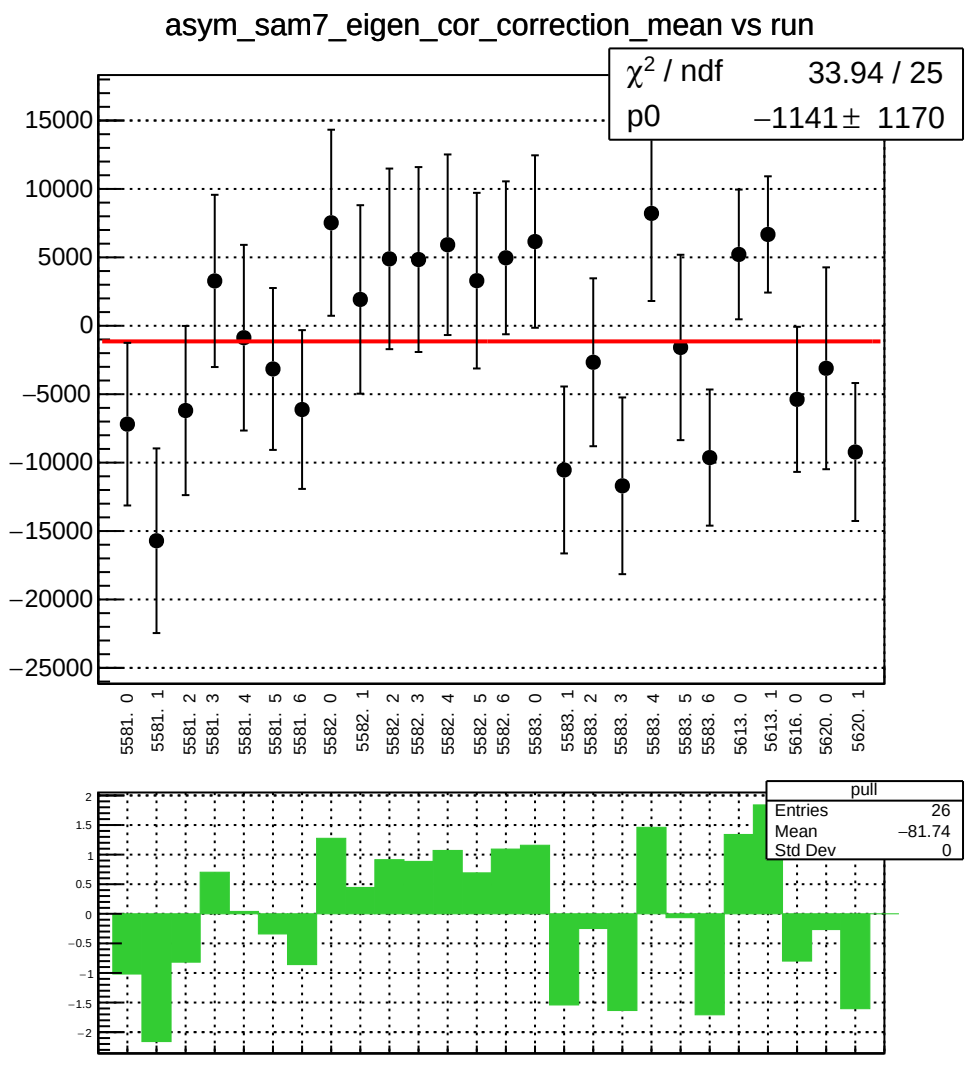

asym_sam7_cor_correction_mean vs run
χ² / ndf 33.94 / 25
p0 −1141 ± 1170
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −81.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

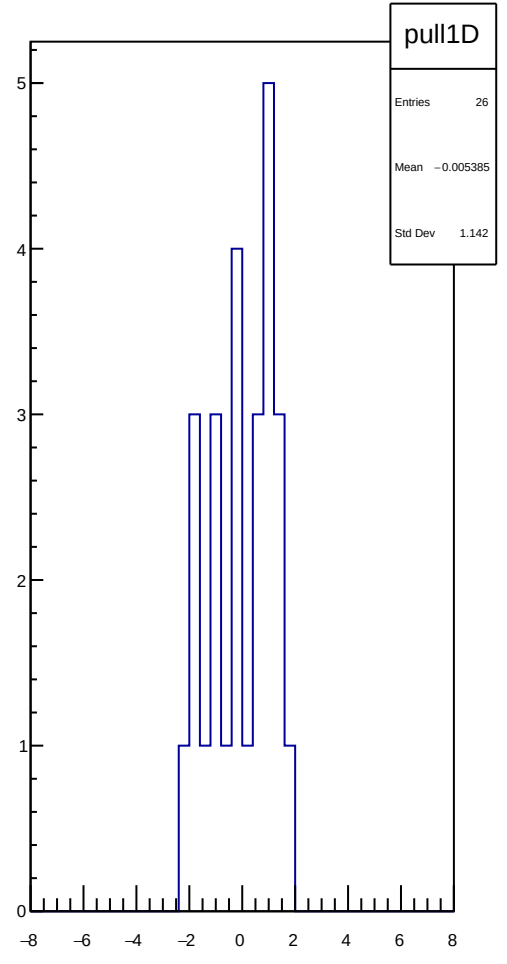

pull1D
Entries 26
Mean −0.005385
Std Dev 1.142
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

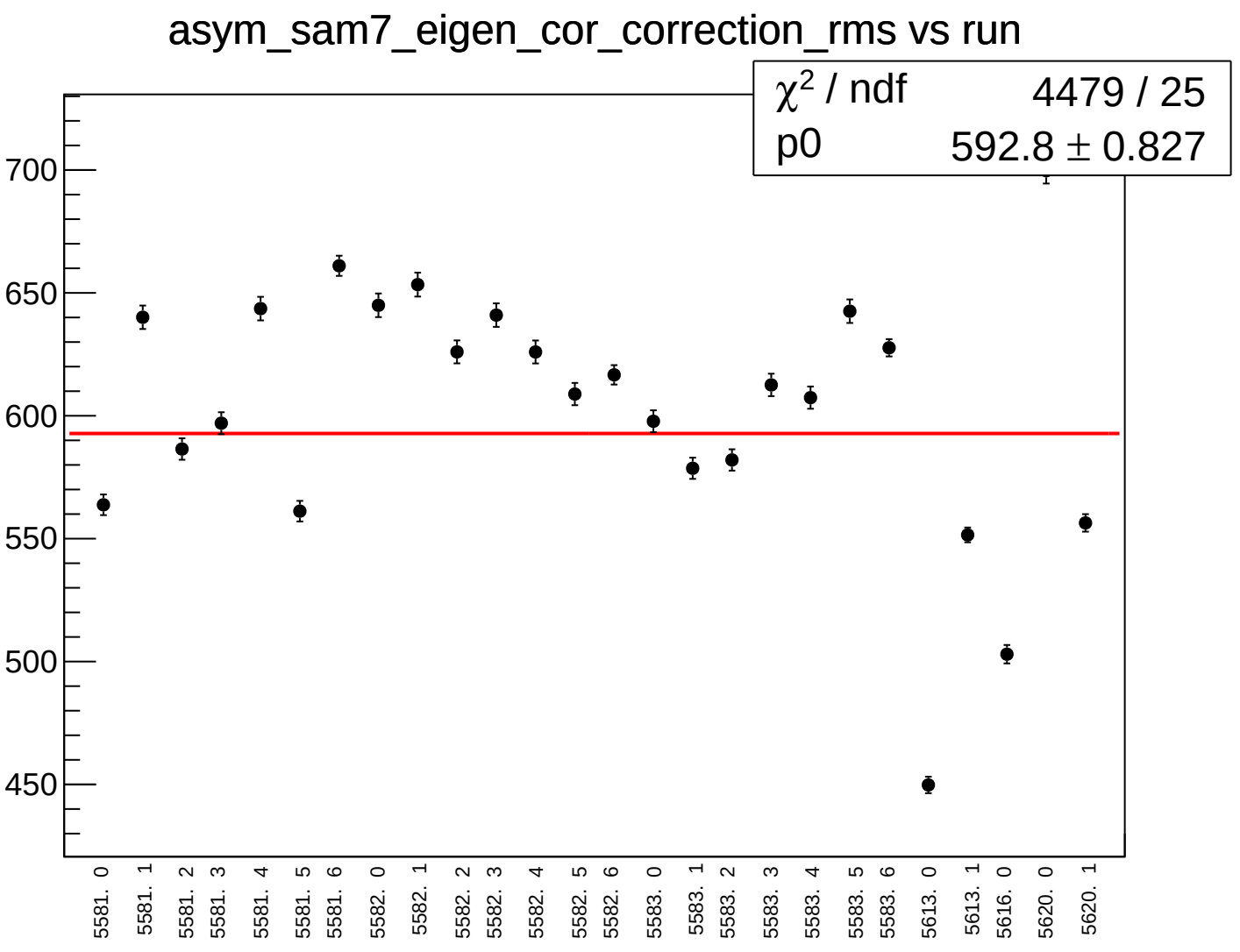

asym_sam7_cor_correction_rms vs run
χ² / ndf 4479 / 25
p0 592.8 ± 0.827
700
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

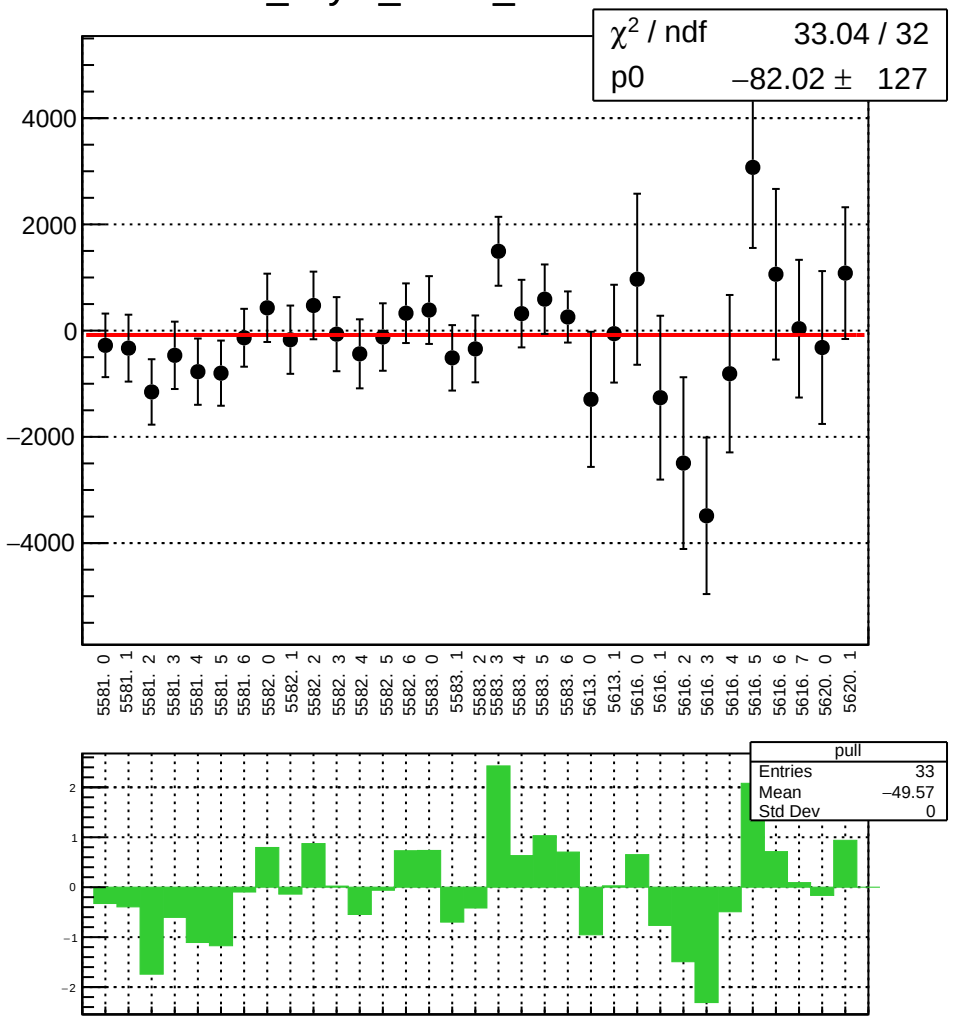

eigen_cor_asym_sam7_mean vs run
χ² / ndf 22.16 / 32
p0 −44 ± 121.8
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 124.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.02719
Std Dev 0.819
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

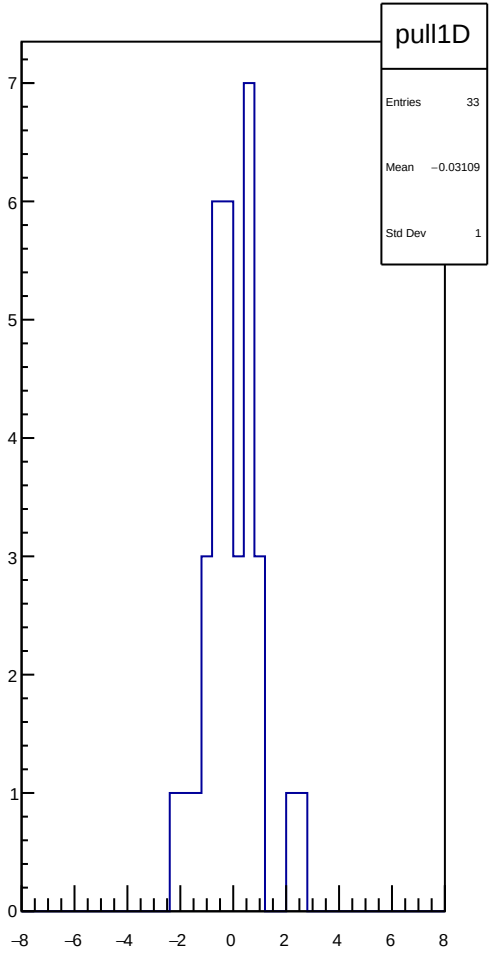

eigen_cor_asym_sam7_rms vs run
χ² / ndf 1.413e+05 / 32
p0 61.55 ± 0.08613
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

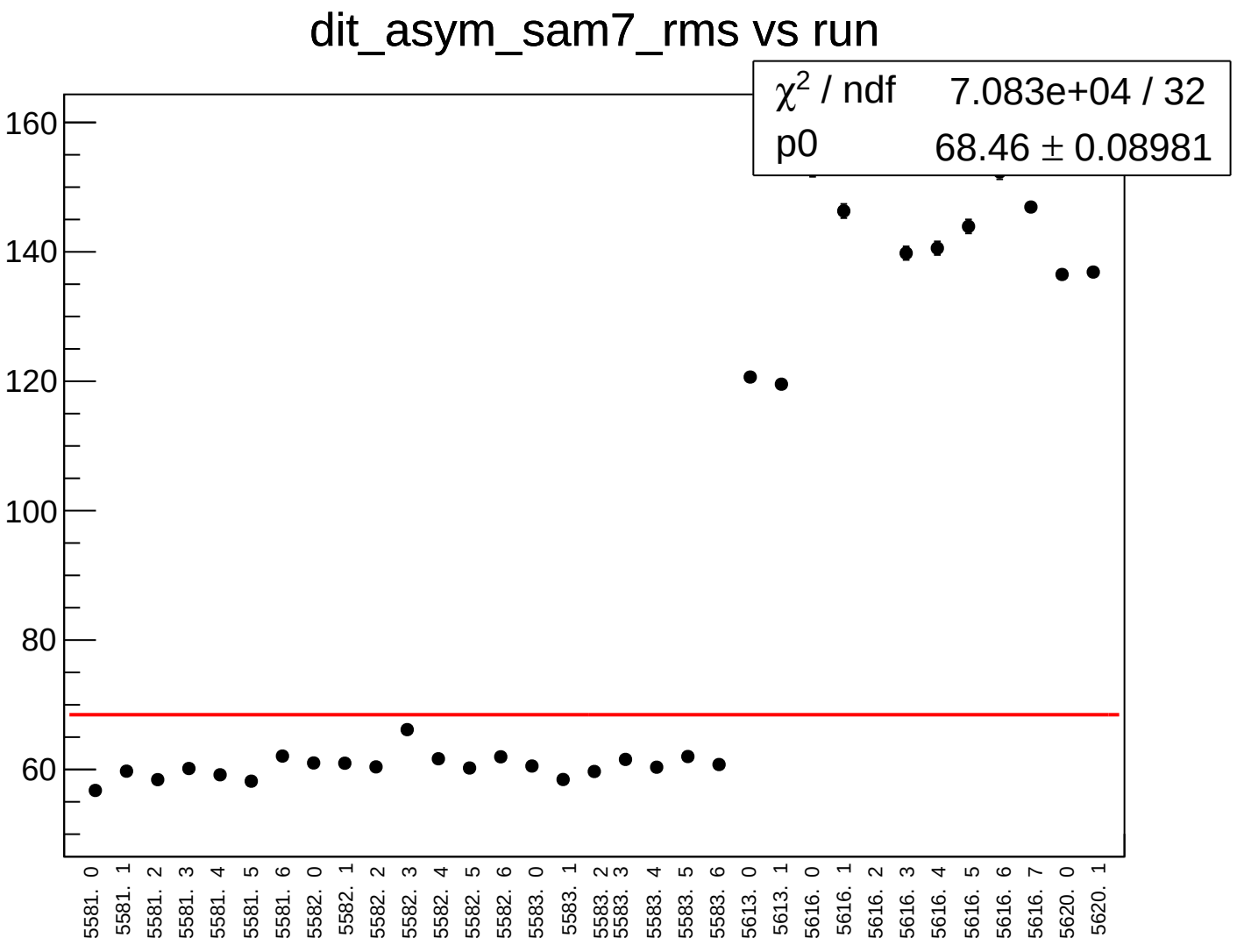

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 33.94 / 25
p0 −1141 ± 1170
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −81.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

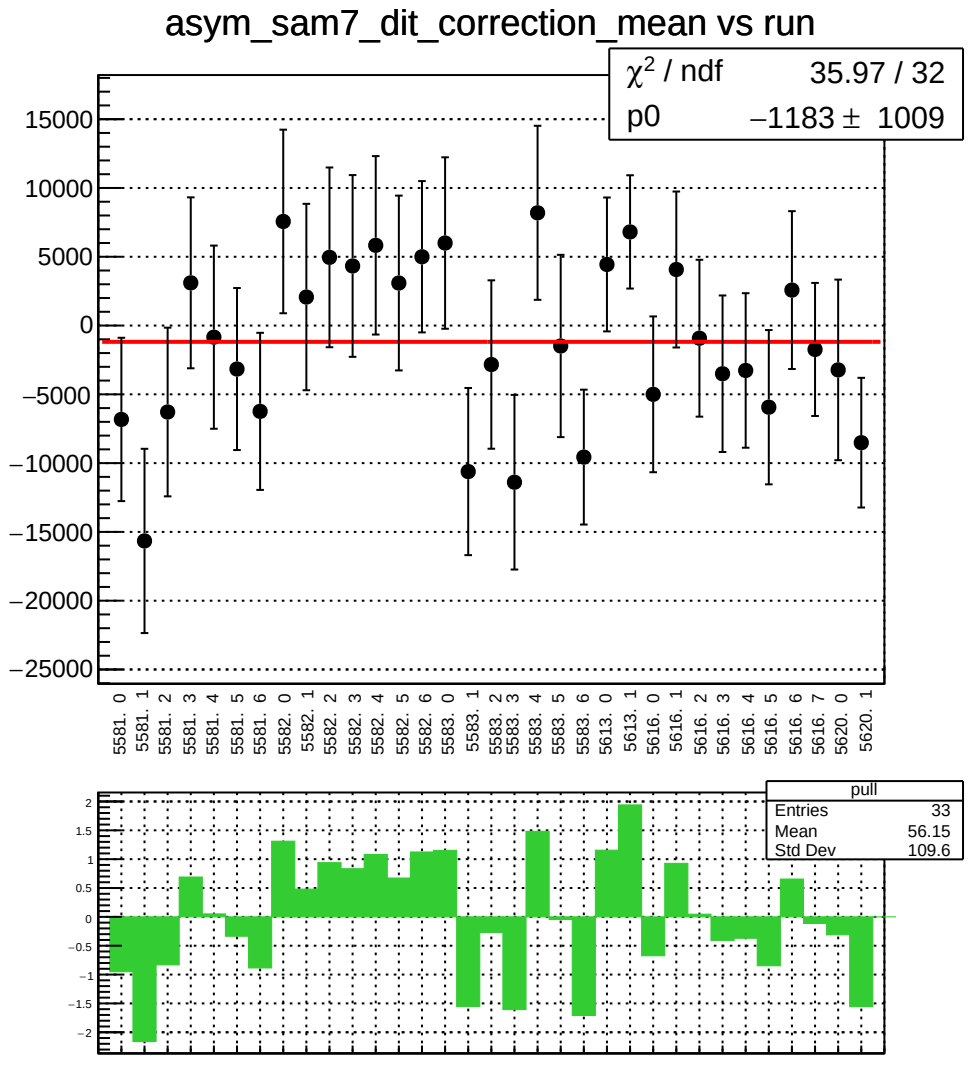

pull1D
Entries 26
Mean −0.005385
Std Dev 1.142
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

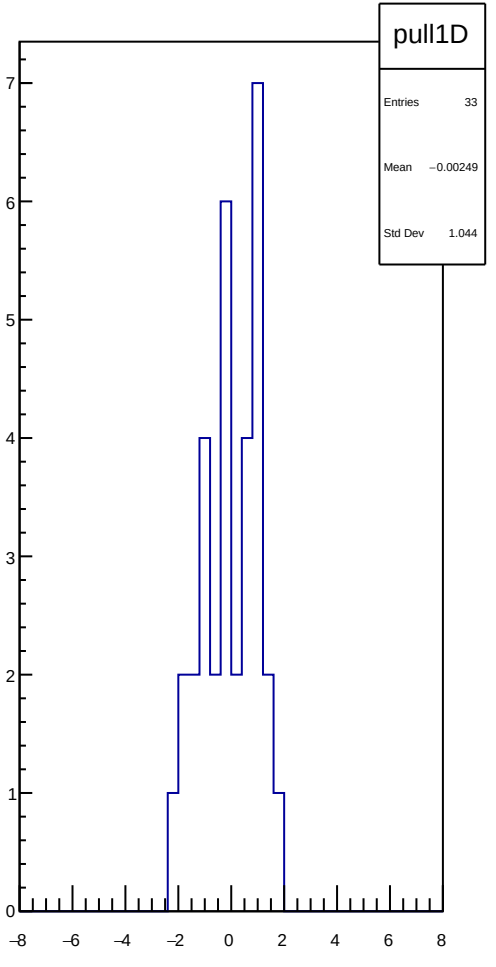

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 4479 / 25
p0 592.8 ± 0.827
700
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

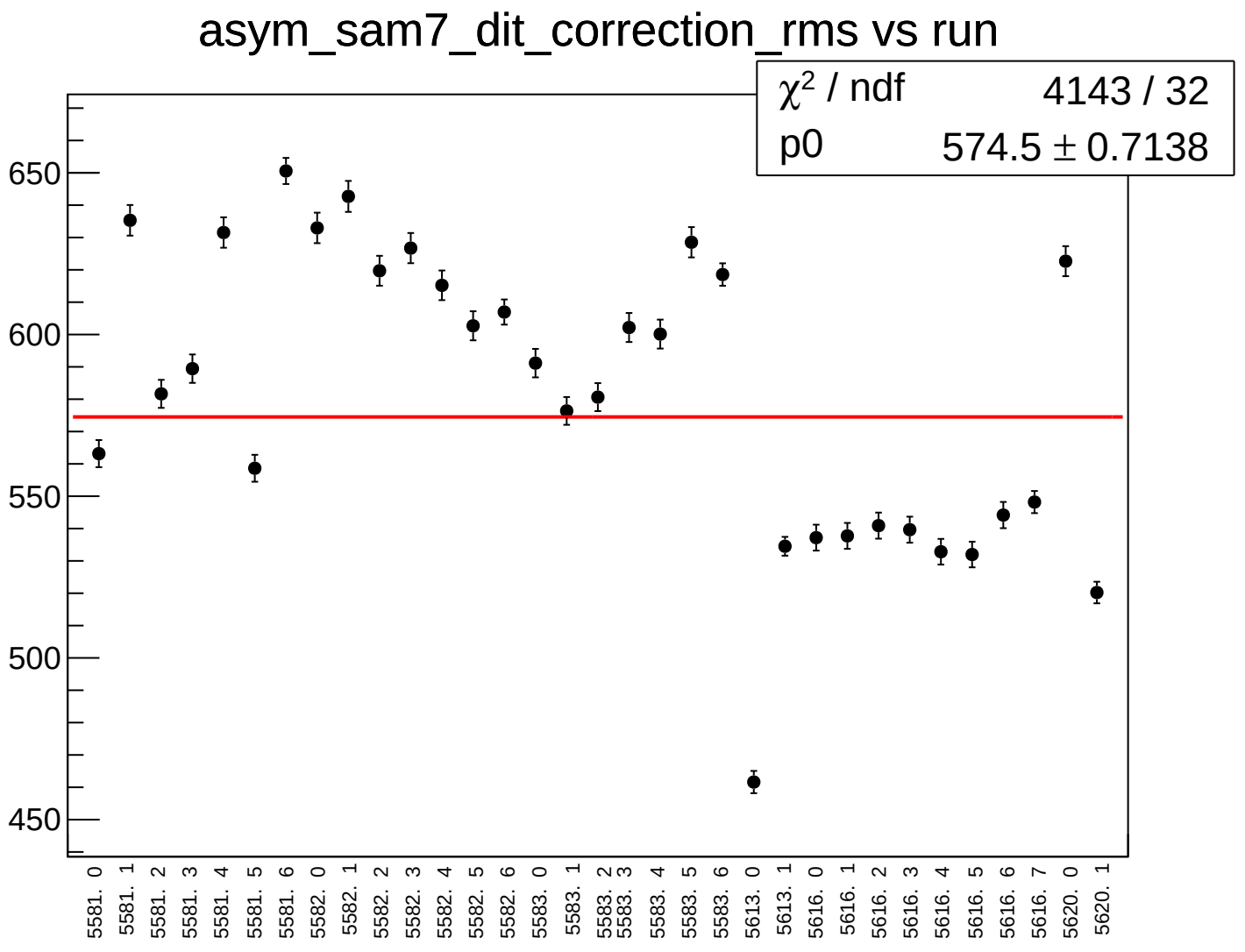

dit_asym_sam7_mean vs run
χ² / ndf 33.04 / 32
p0 −82.02 ± 127
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −49.57
Std Dev 0
2
1
0
−1
−2

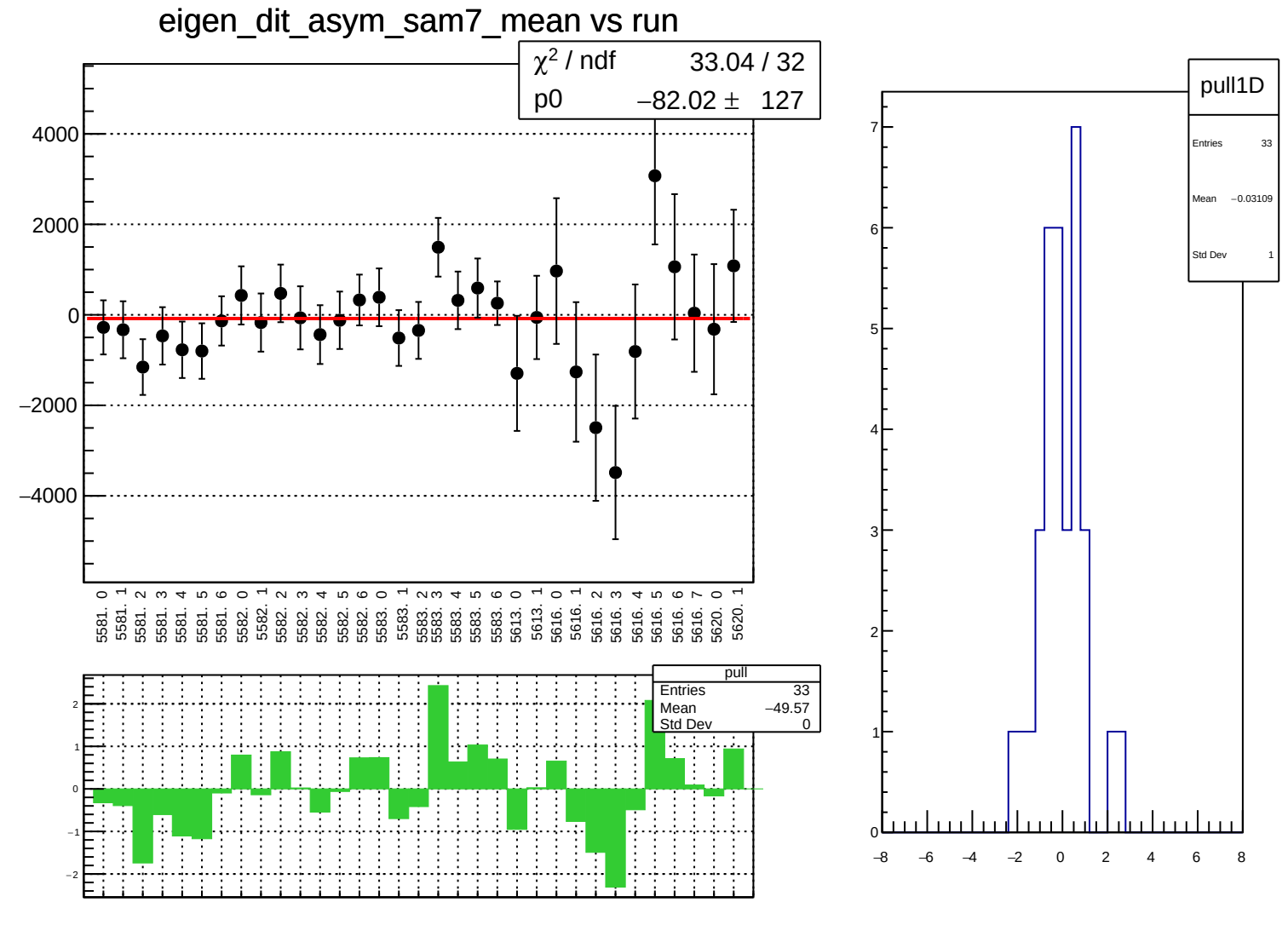

pull1D
Entries 33
Mean −0.03109
Std Dev 1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

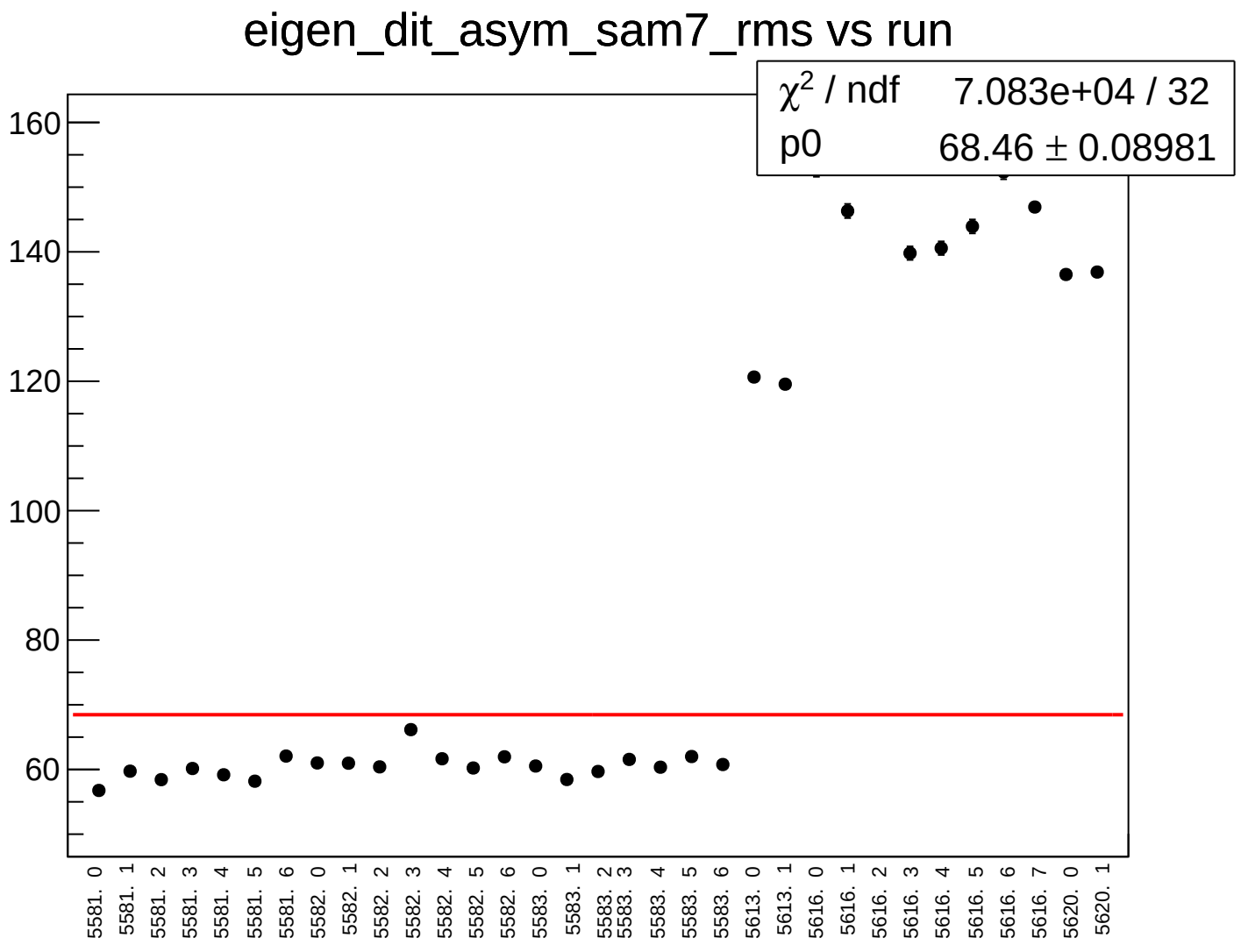

dit_asym_sam7_rms vs run
χ² / ndf 7.083e+04 / 32
p0 68.46 ± 0.08981
160
140
120
100
80
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

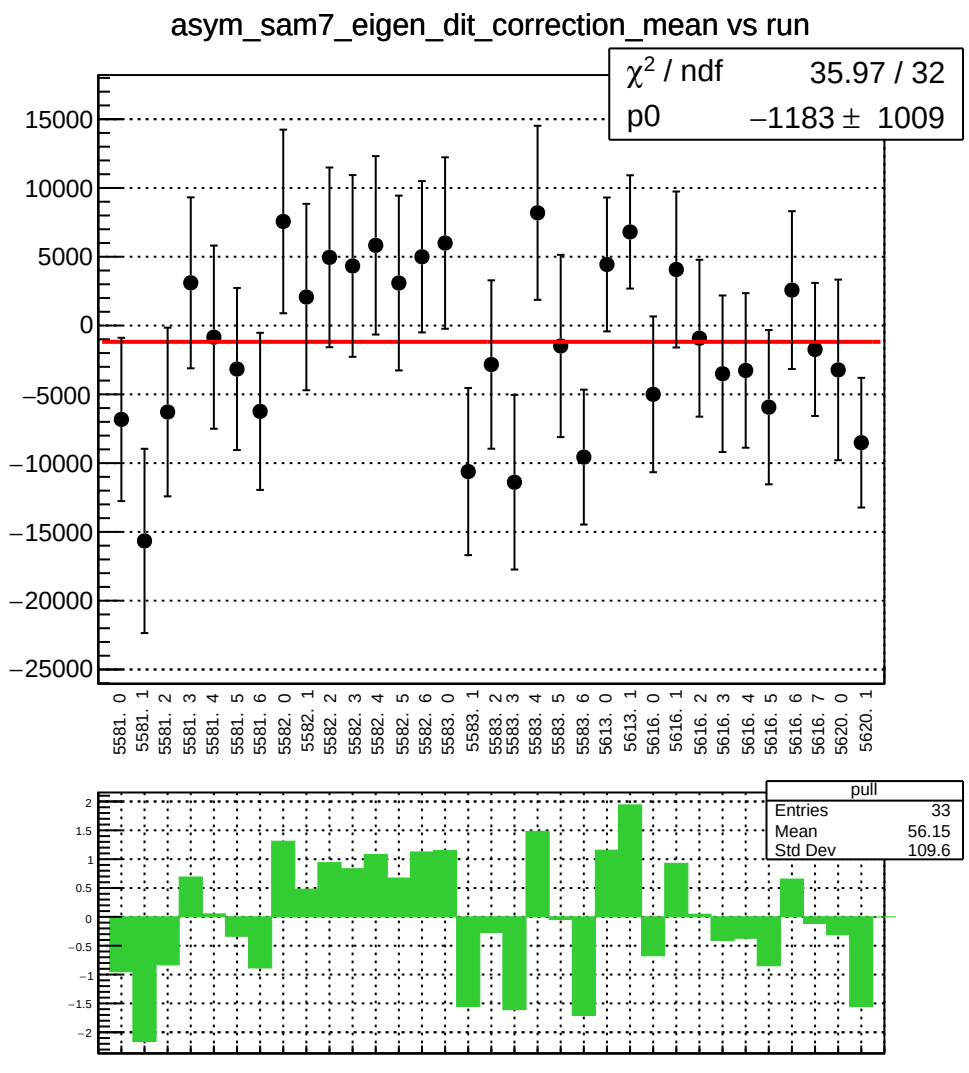

asym_sam7_dit_correction_mean vs run
χ² / ndf 35.97 / 32
p0 −1183 ± 1009
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 56.15
Std Dev 109.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

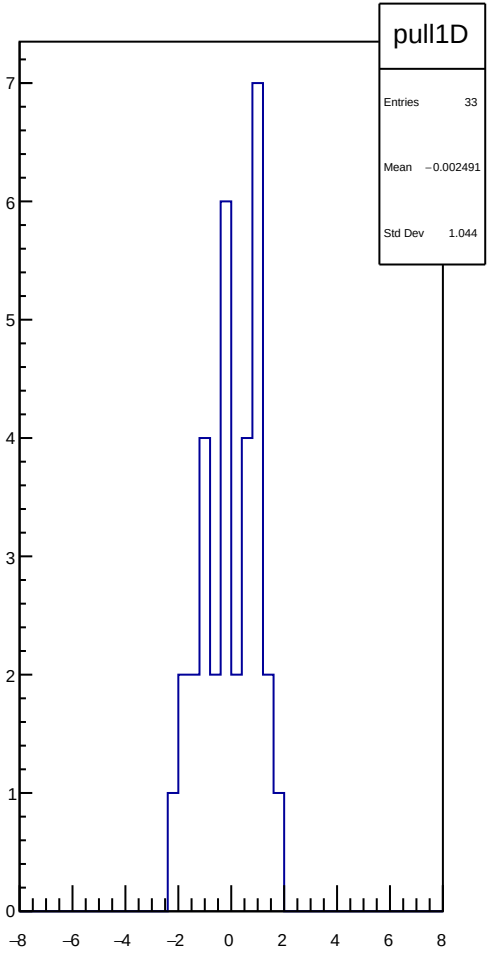

pull1D
Entries 33
Mean −0.00249
Std Dev 1.044
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

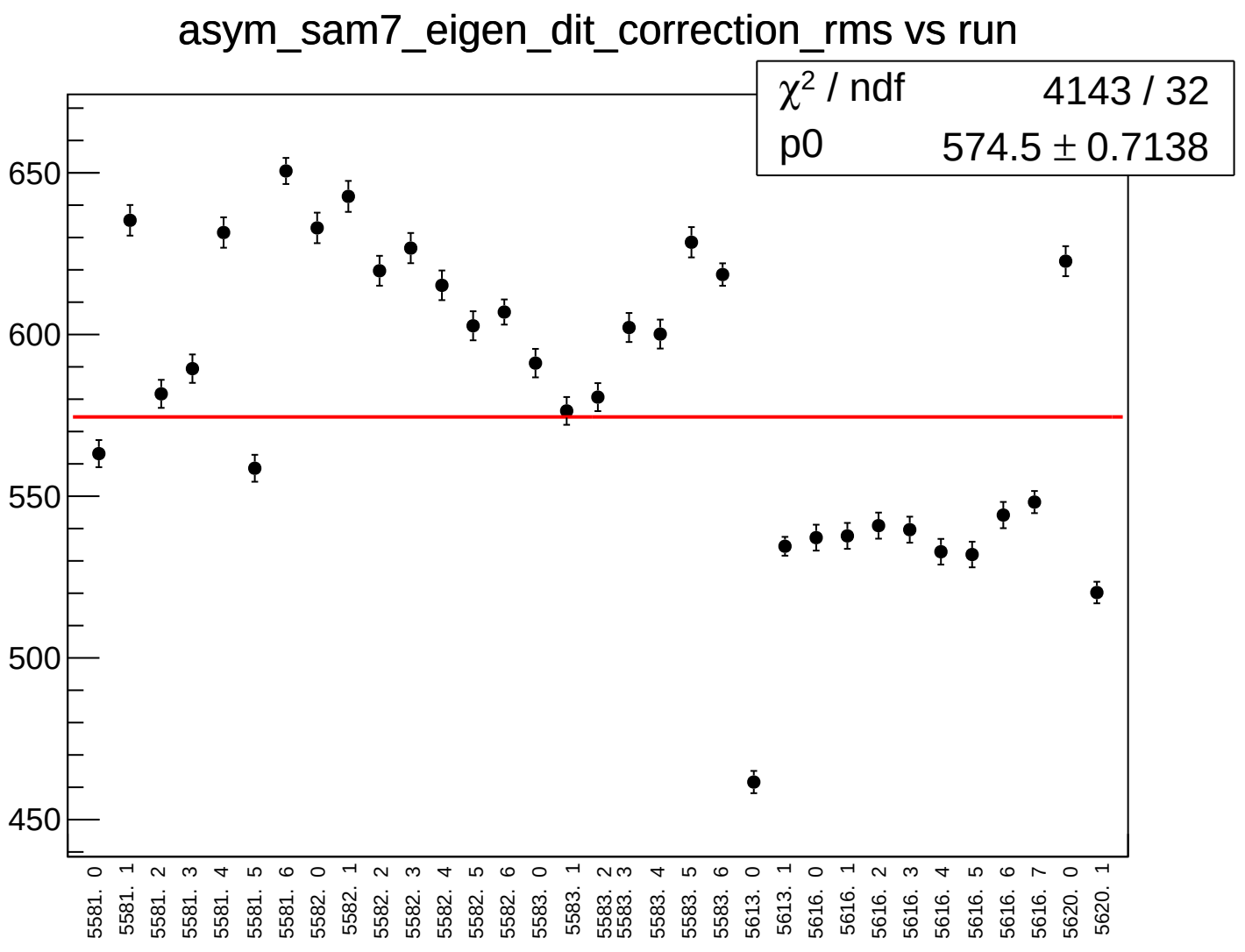

asym_sam7_dit_correction_rms vs run
χ² / ndf 4143 / 32
p0 574.5 ± 0.7138
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

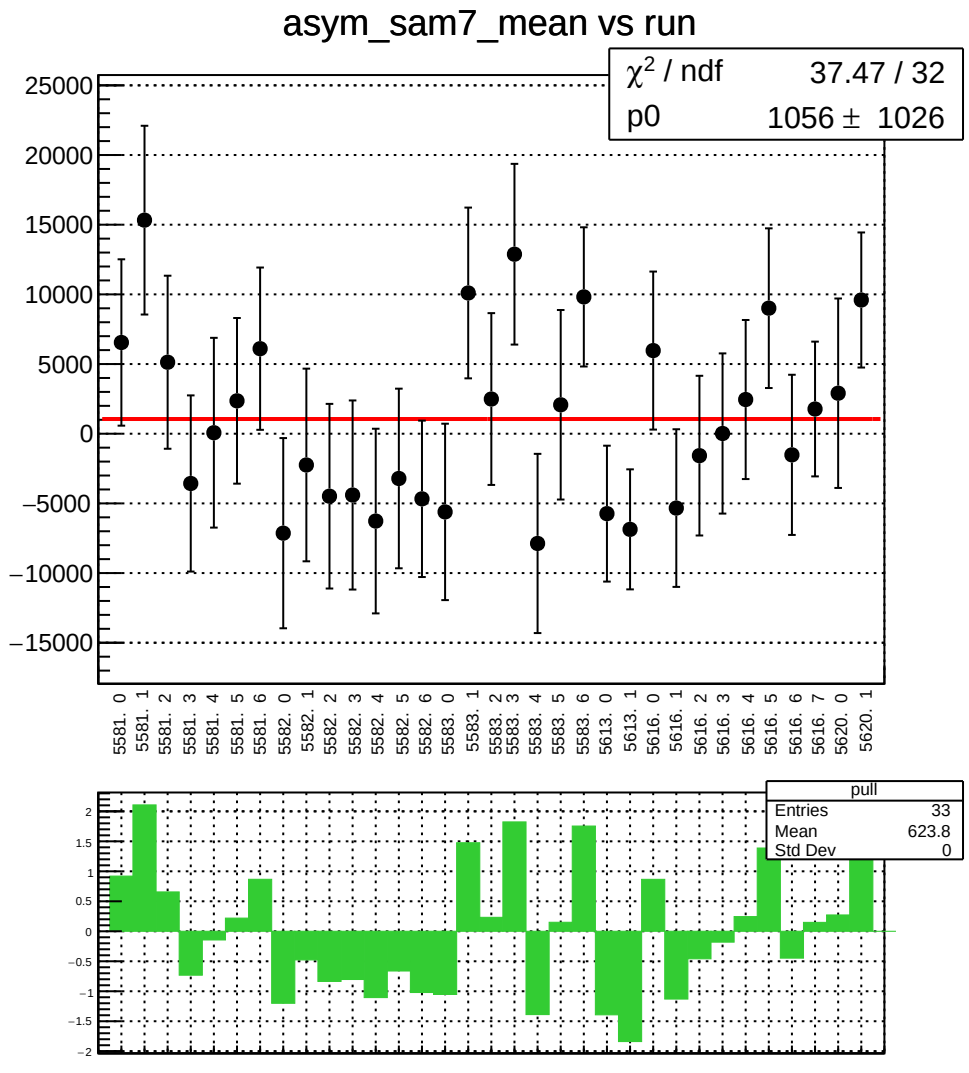

eigen_dit_asym_sam7_mean vs run
χ² / ndf 33.04 / 32
p0 −82.02 ± 127
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −49.57
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.03109
Std Dev 1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

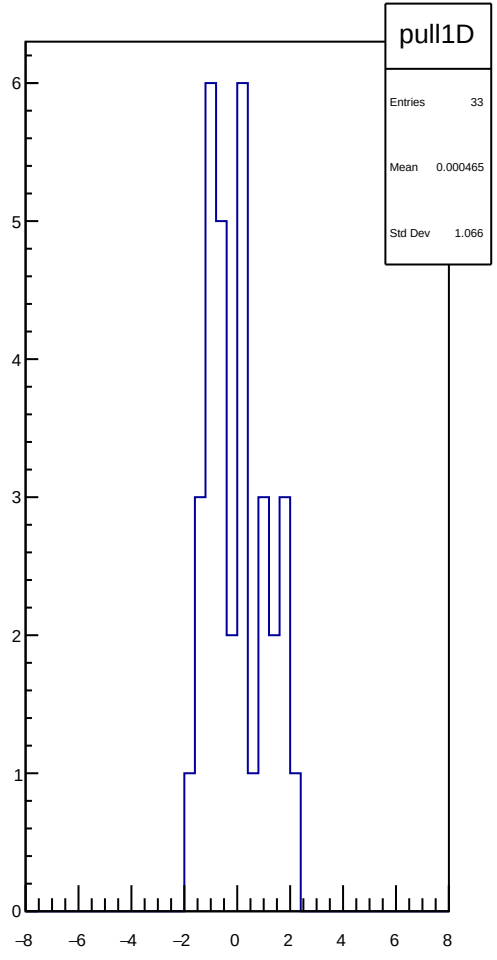

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 7.083e+04 / 32
p0 68.46 ± 0.08981
160
140
120
100
80
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

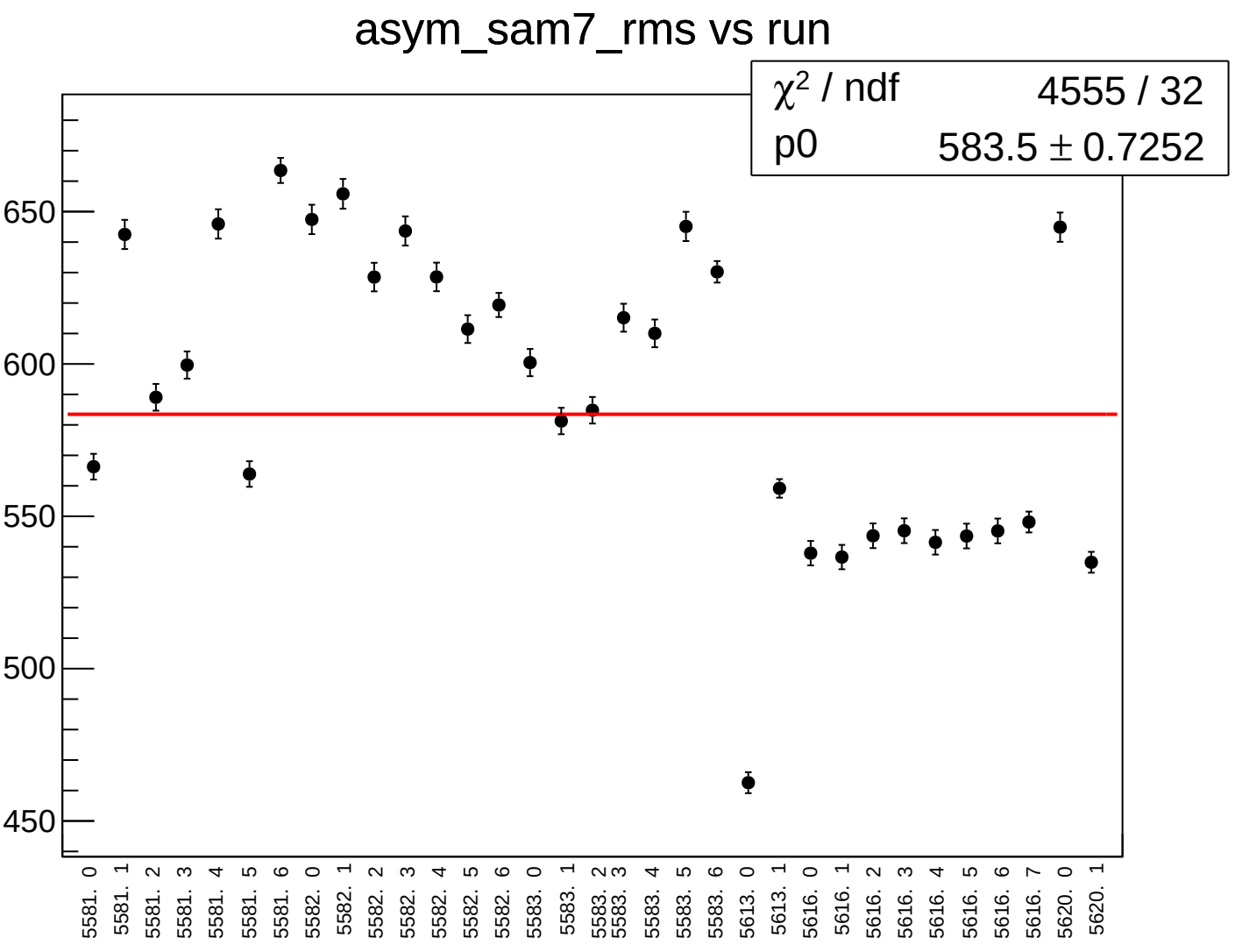

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 35.97 / 32
p0 −1183 ± 1009
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 56.15
Std Dev 109.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

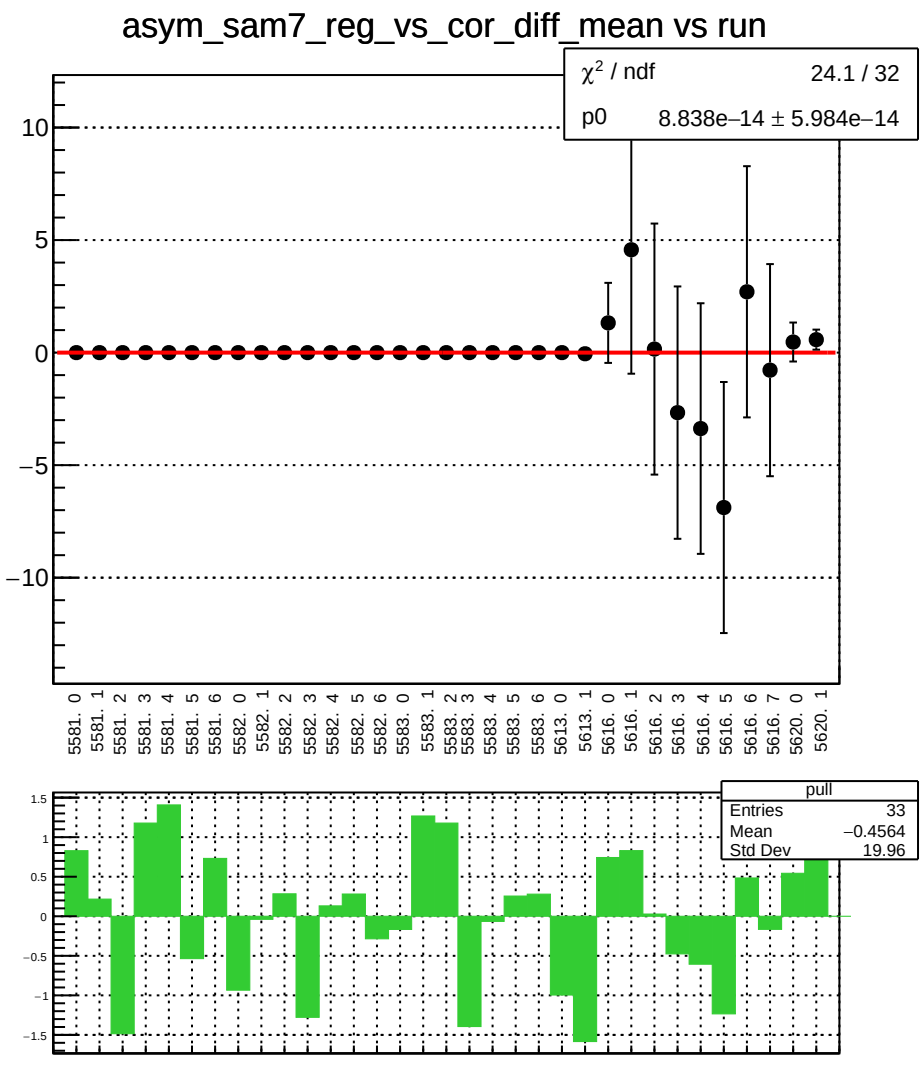

pull1D
Entries 33
Mean −0.002491
Std Dev 1.044
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

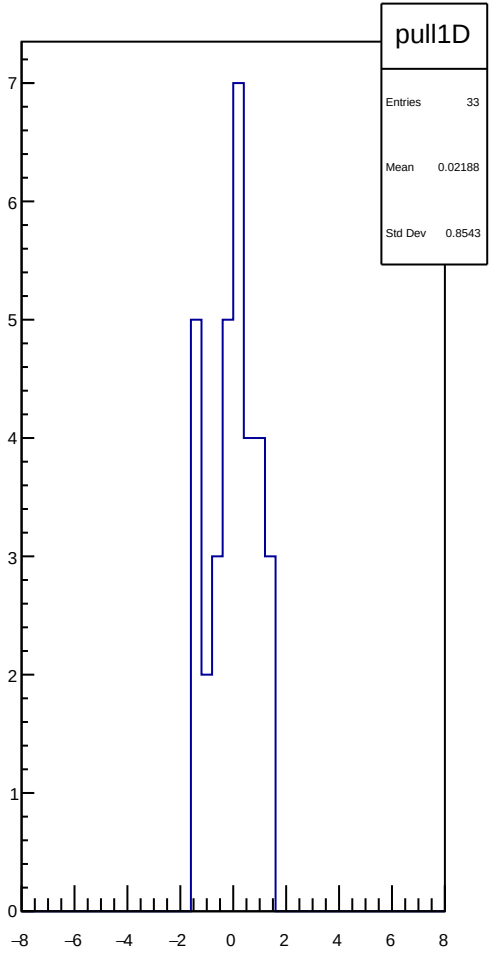

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 4143 / 32
p0 574.5 ± 0.7138
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

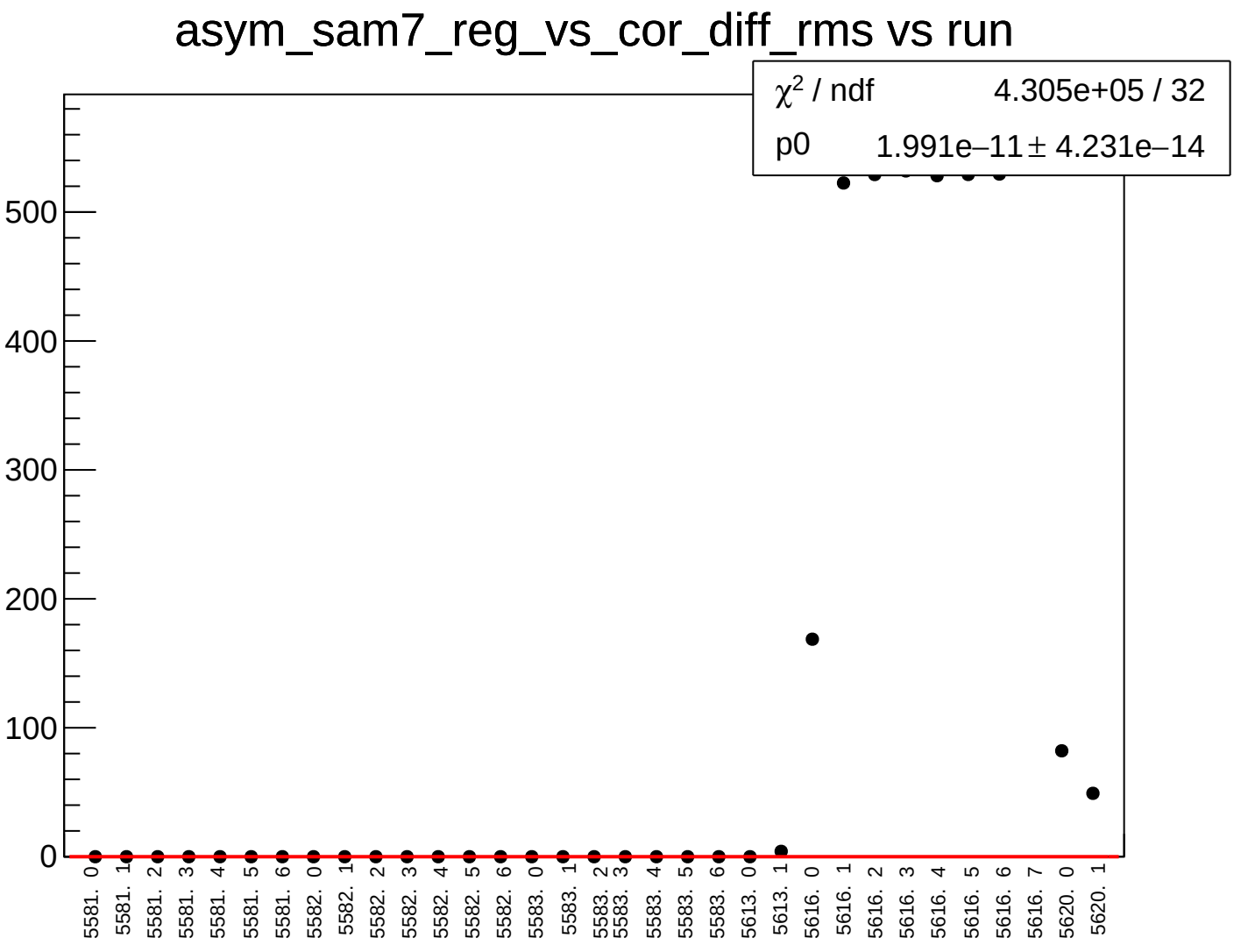

asym_sam7_mean vs run
χ² / ndf 37.47 / 32
p0 1056 ± 1026
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 623.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

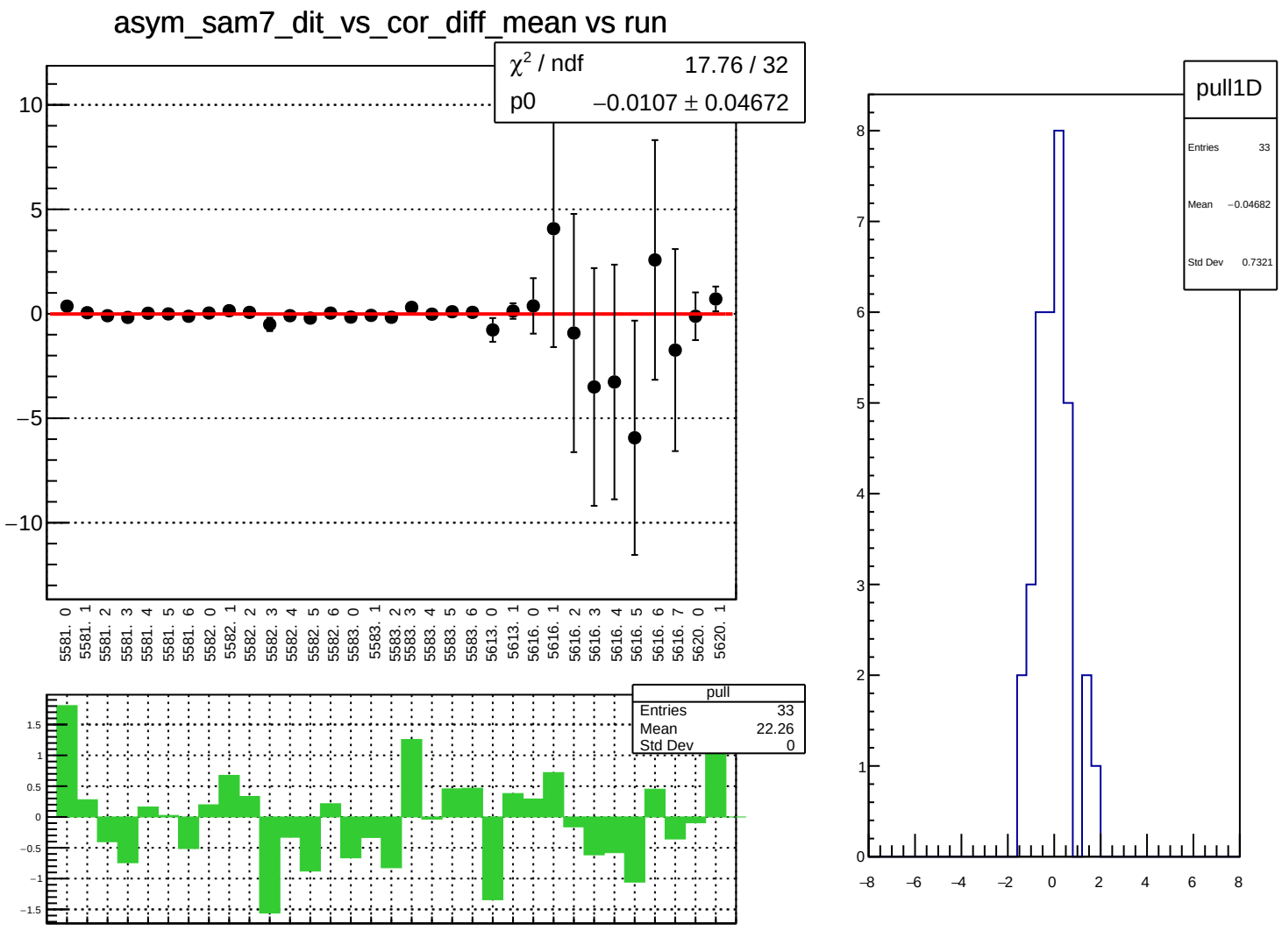

pull1D
Entries 33
Mean 0.000465
Std Dev 1.066
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

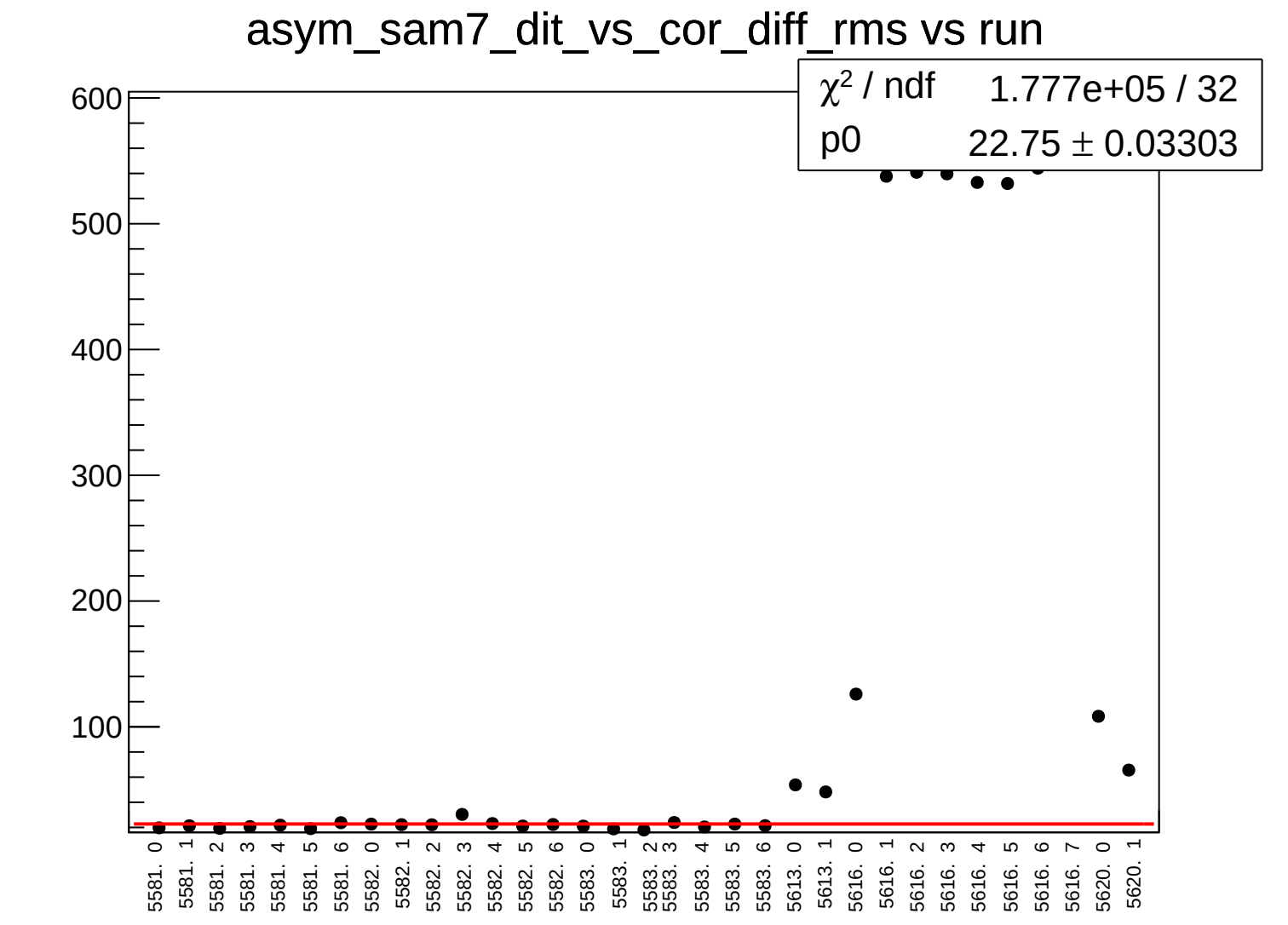

asym_sam7_rms vs run
χ² / ndf 4555 / 32
p0 583.5 ± 0.7252
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

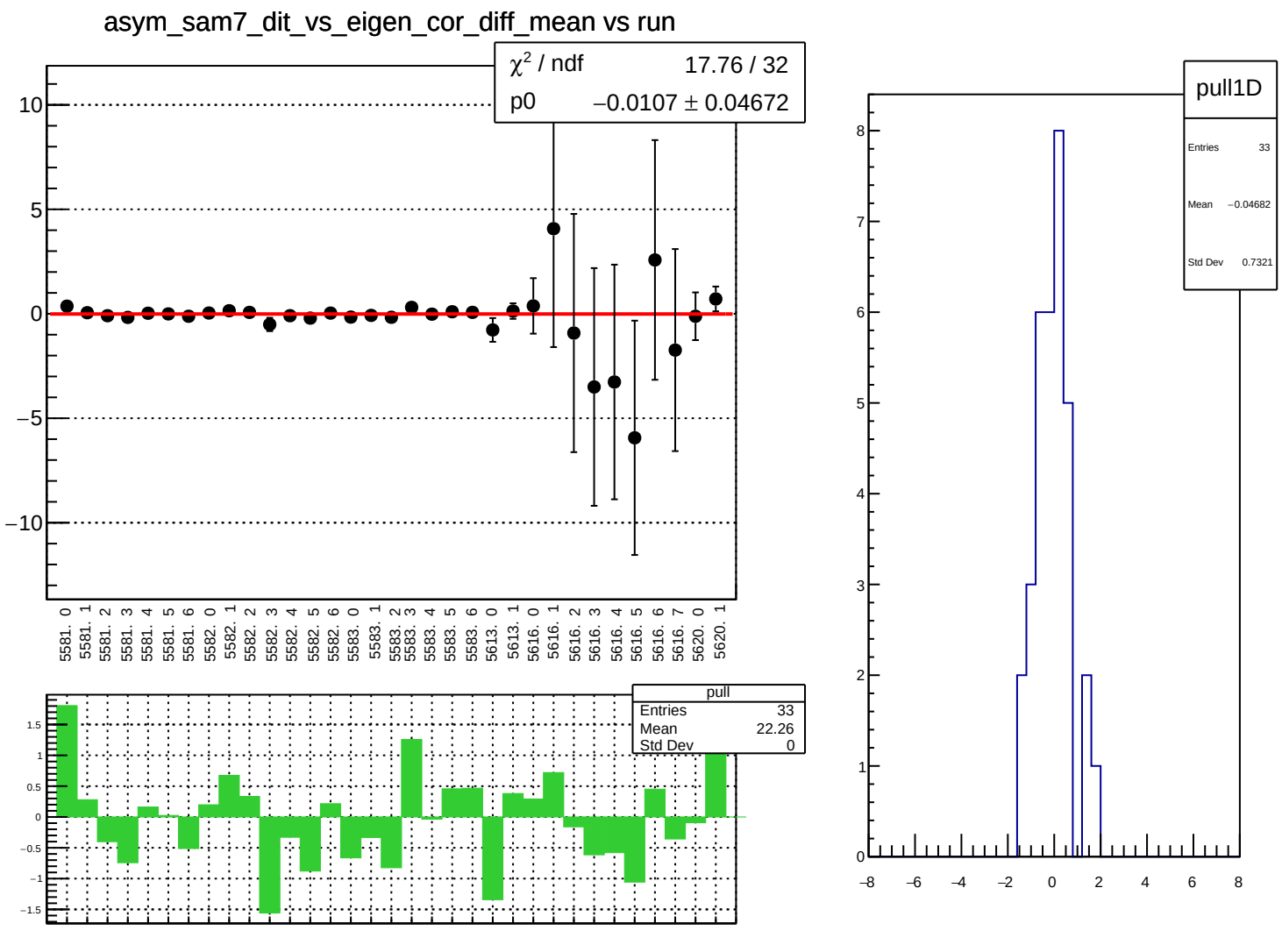

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 24.1 / 32
p0 8.838e−14 ± 5.984e−14
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.4564
Std Dev 19.96
1.5
1
0.5
0
−0.5
−1
−1.5

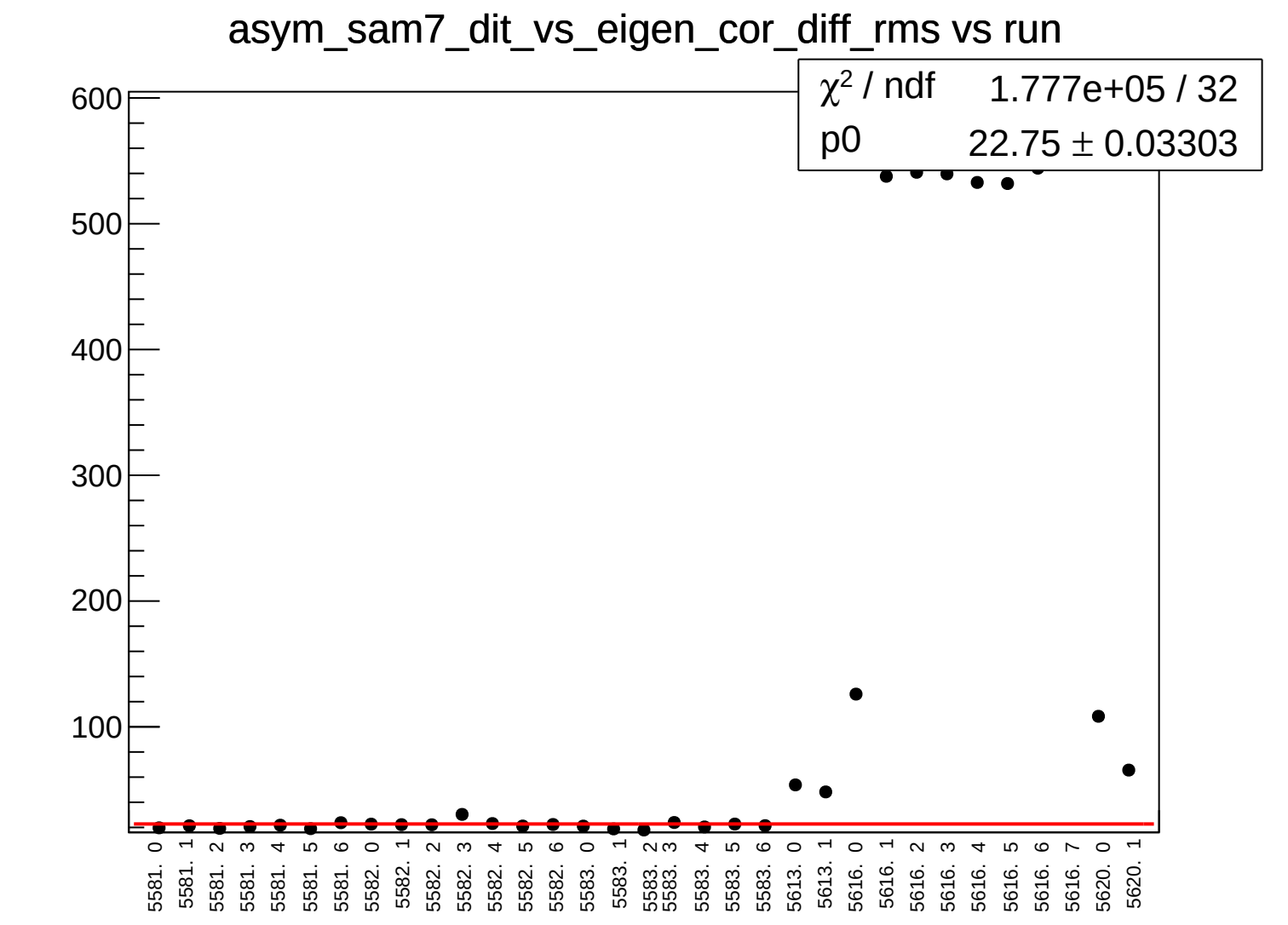

pull1D
Entries 33
Mean 0.02188
Std Dev 0.8543
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

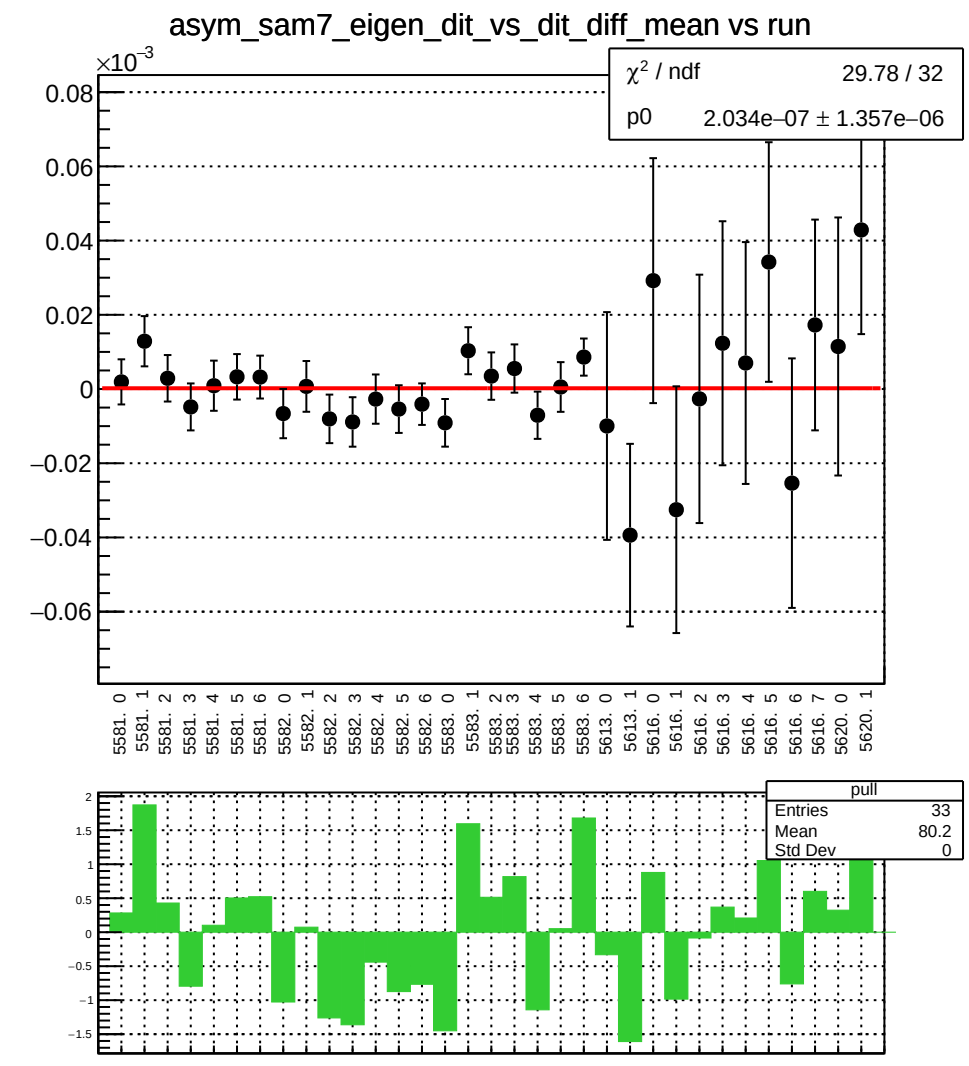

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 4.305e+05 / 32
p0 1.991e−11 ± 4.231e−14
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

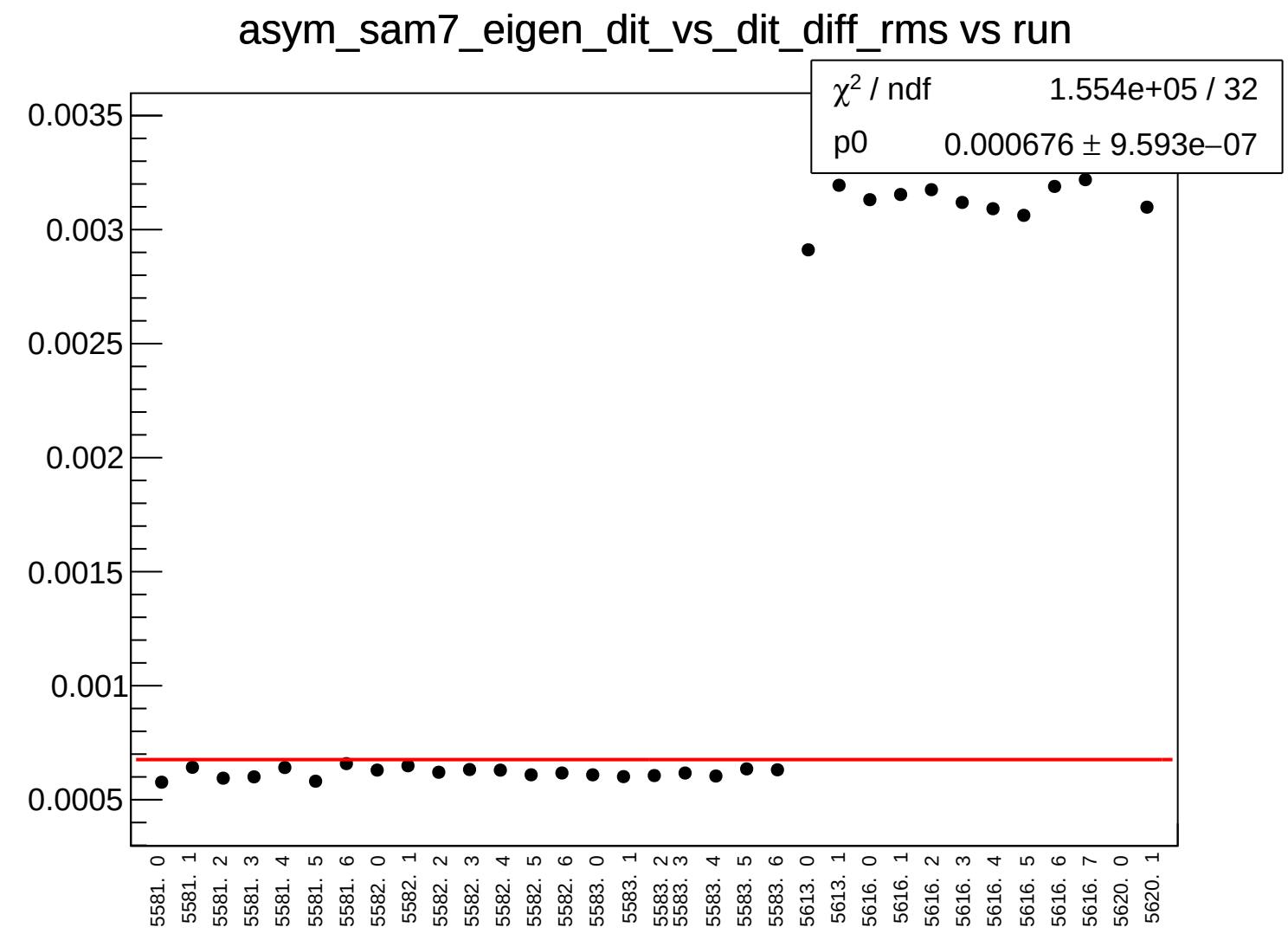

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 17.76 / 32
p0 −0.0107 ± 0.04672
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.04682
Std Dev 0.7321
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

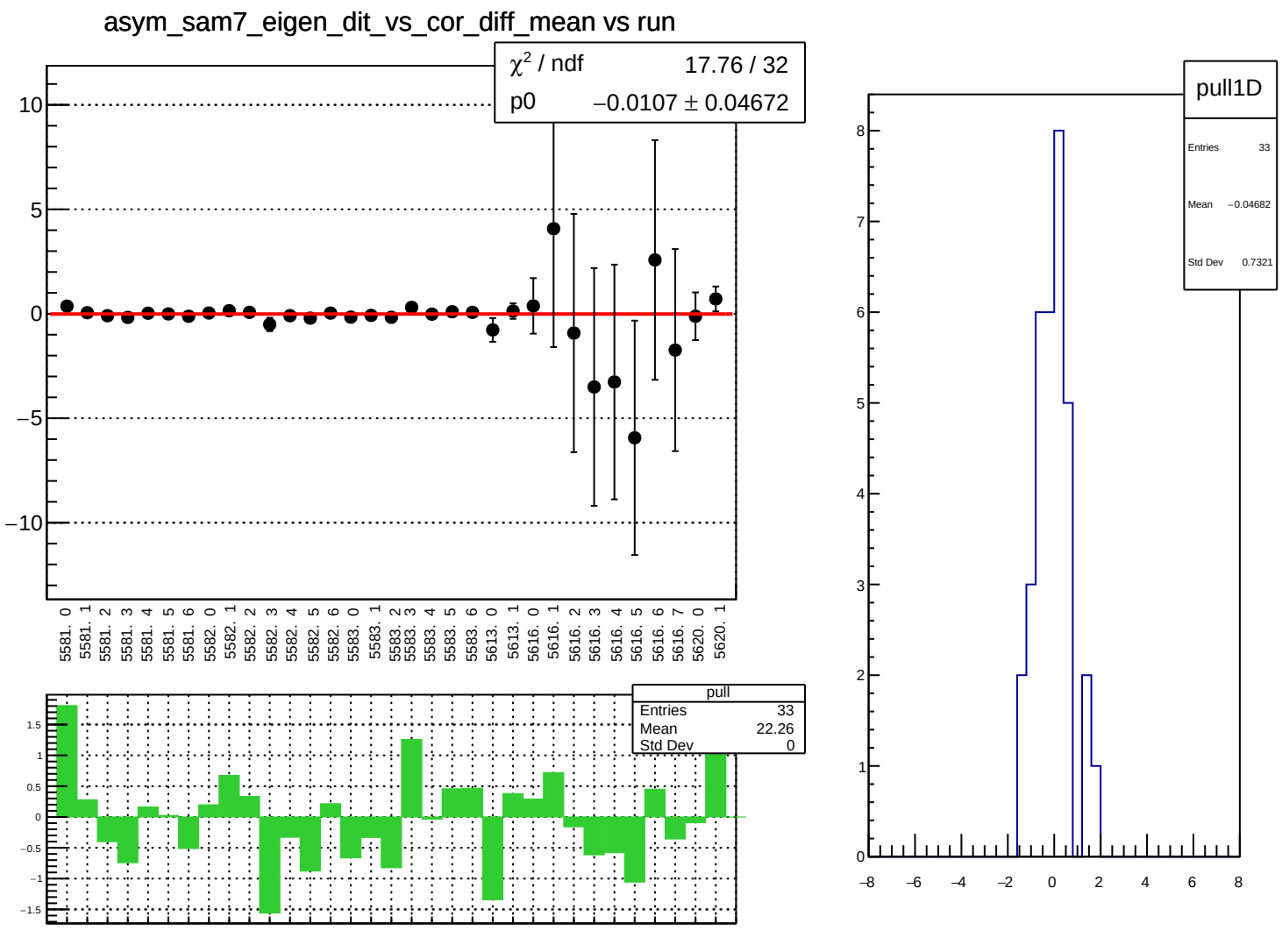

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.777e+05 / 32
p0 22.75 ± 0.03303
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

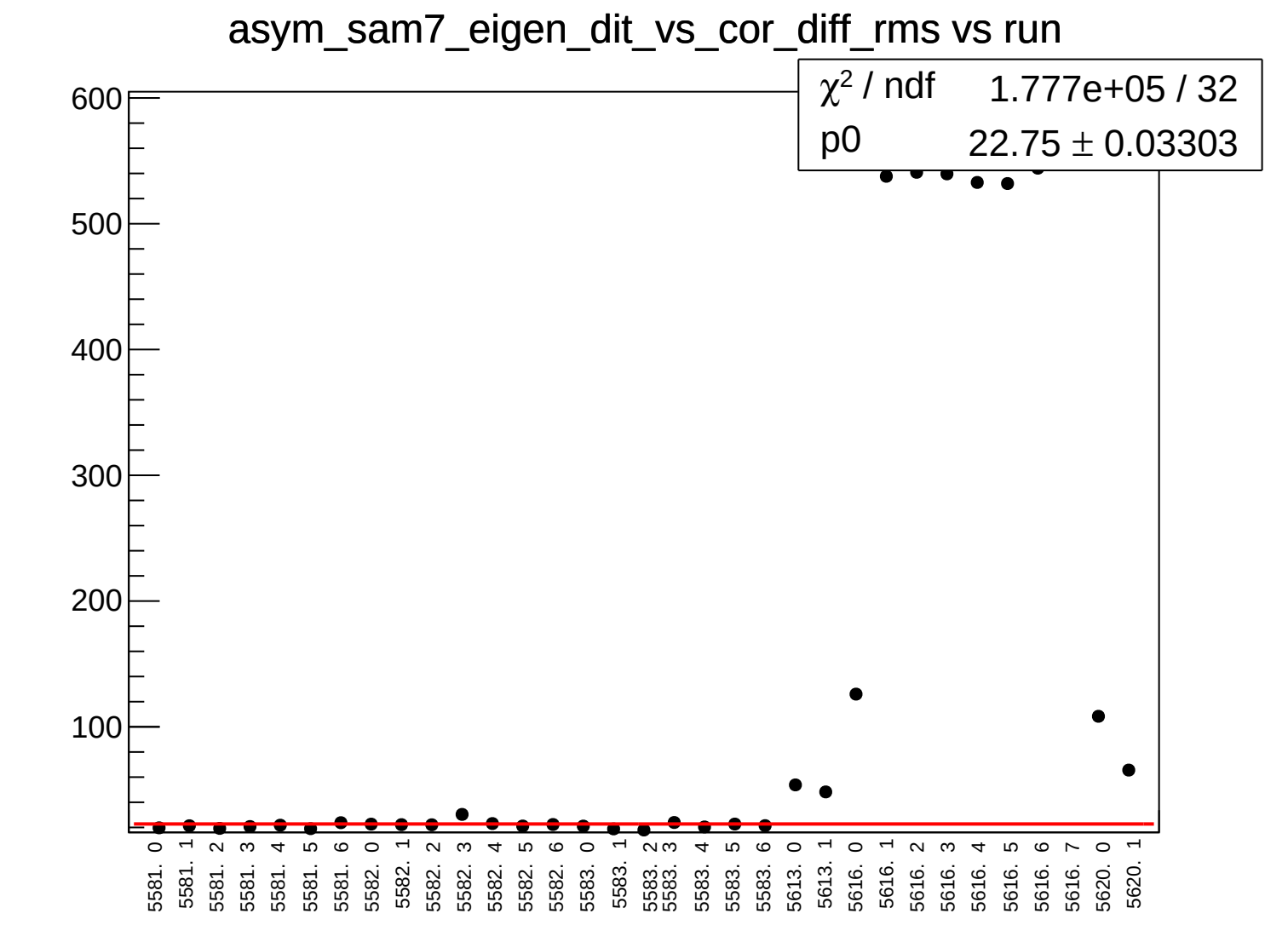

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.76 / 32
p0 −0.0107 ± 0.04672
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.04682
Std Dev 0.7321
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

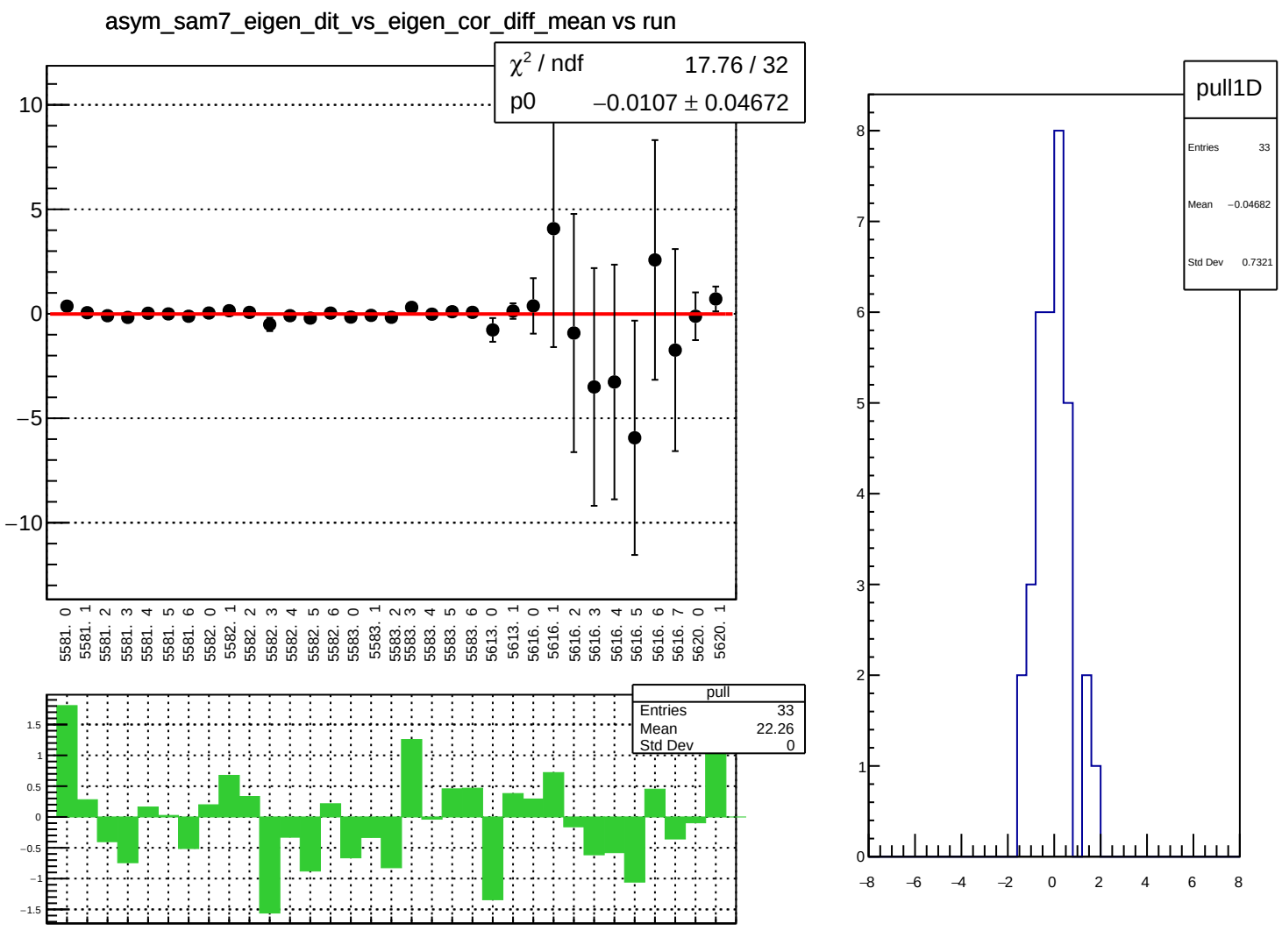

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.777e+05 / 32
p0 22.75 ± 0.03303
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

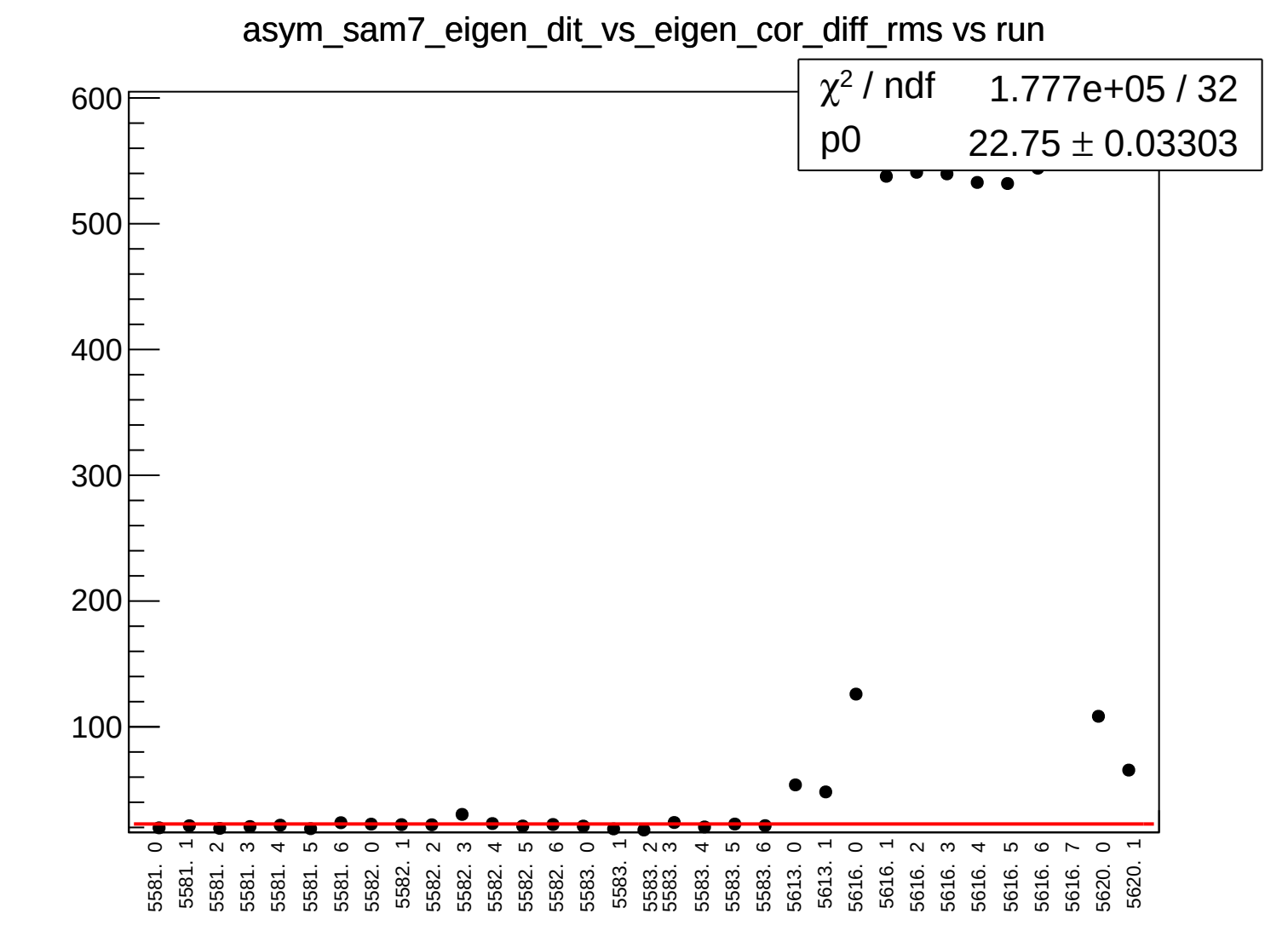

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 29.78 / 32
p0 2.034e−07 ± 1.357e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 80.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.01551
Std Dev 0.9499
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

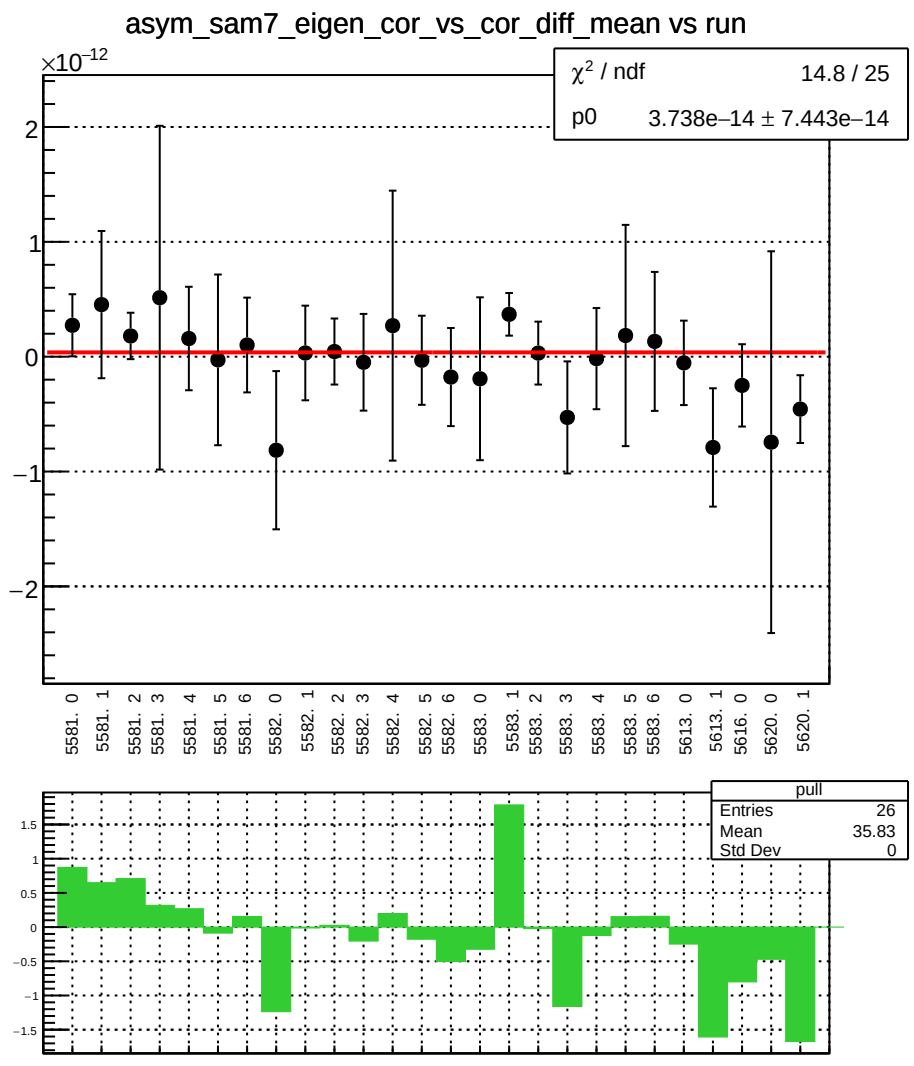

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.554e+05 / 32
p0 0.000676 ± 9.593e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

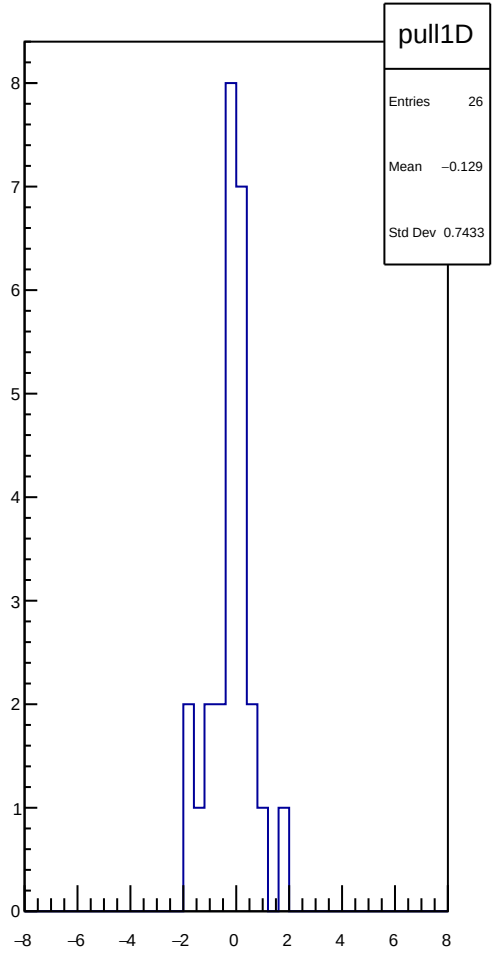

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 17.76 / 32
p0 −0.0107 ± 0.04672
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.04682
Std Dev 0.7321
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

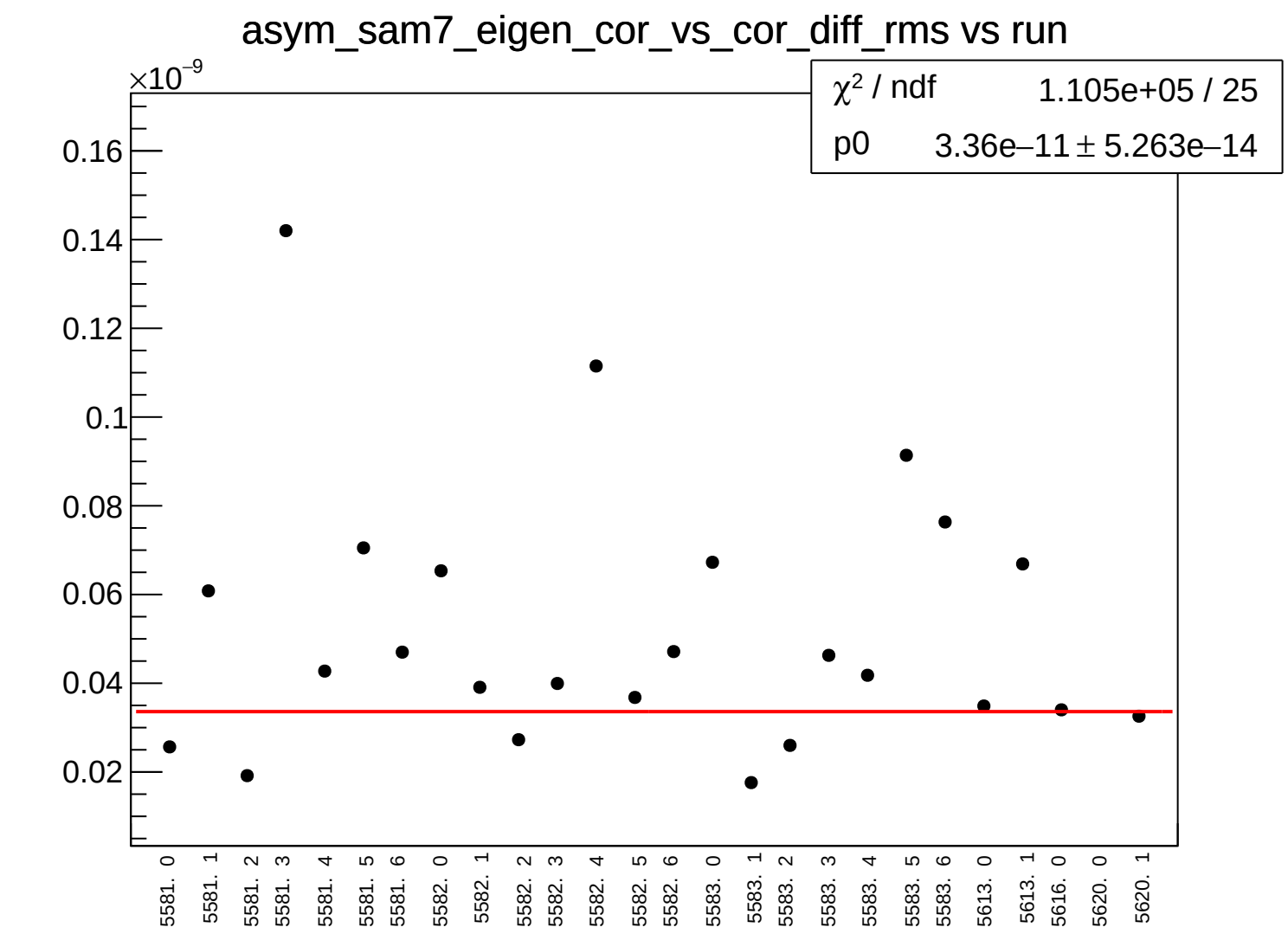

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.777e+05 / 32
p0 22.75 ± 0.03303
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

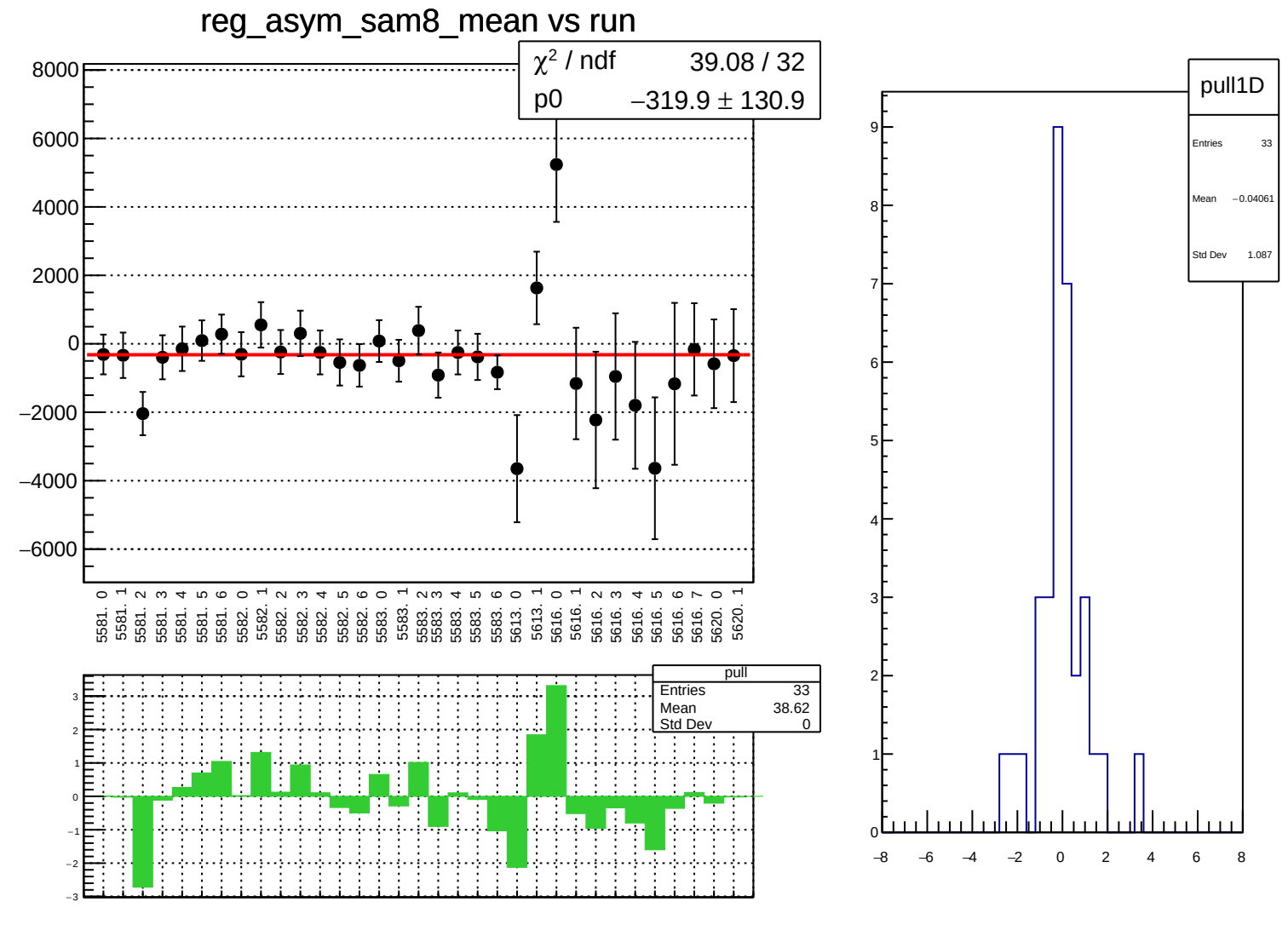

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 17.76 / 32
p0 −0.0107 ± 0.04672
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.26
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.04682
Std Dev 0.7321
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

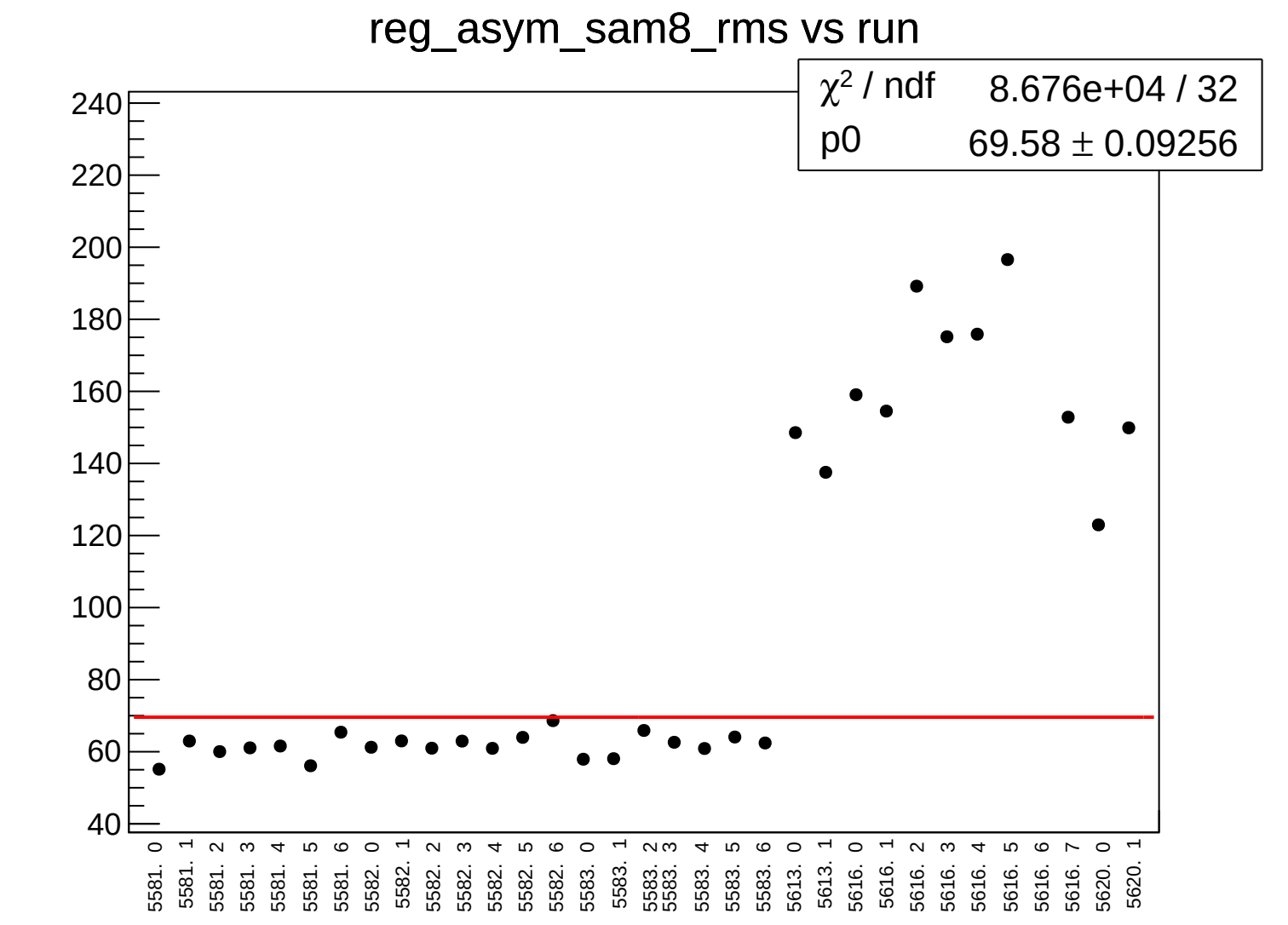

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.777e+05 / 32
p0 22.75 ± 0.03303
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

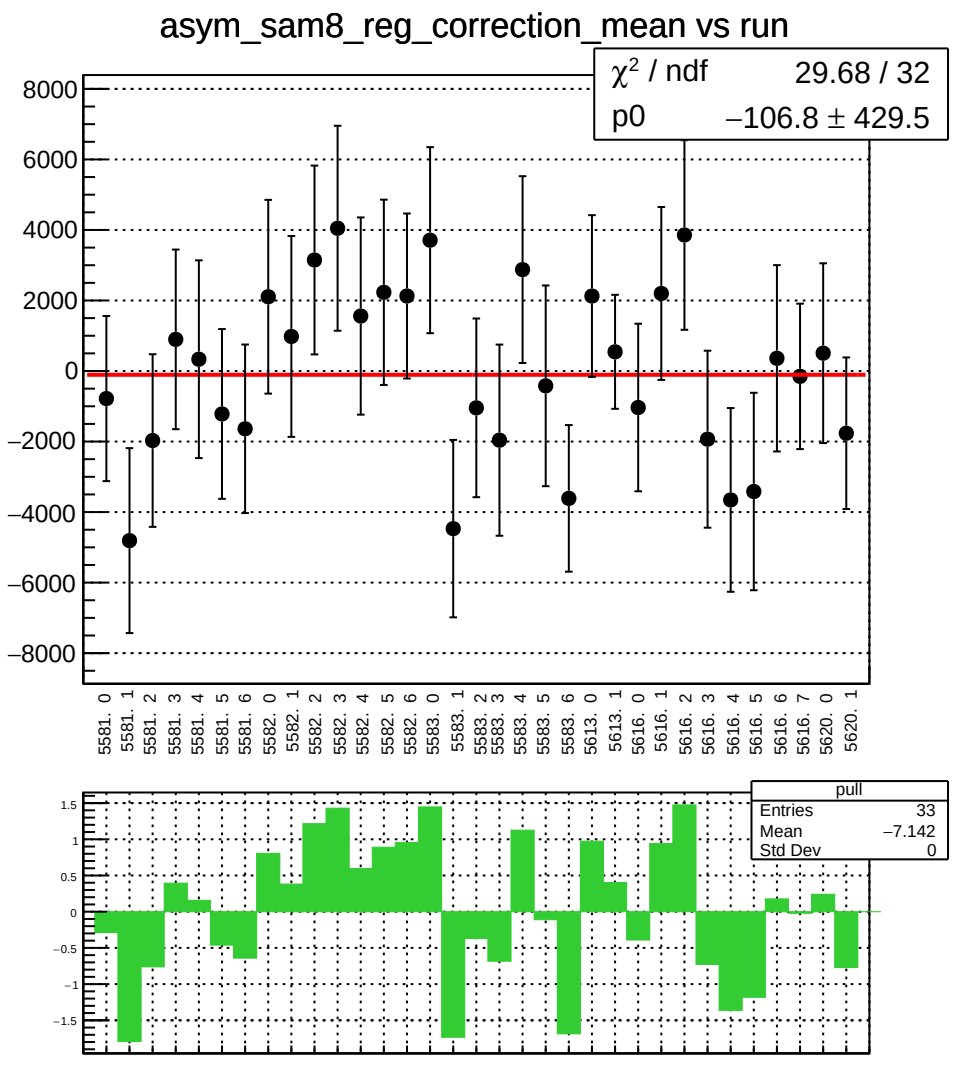

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 14.8 / 25
p0 3.738e−14 ± 7.443e−14
2
1
0
−1
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 35.83
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

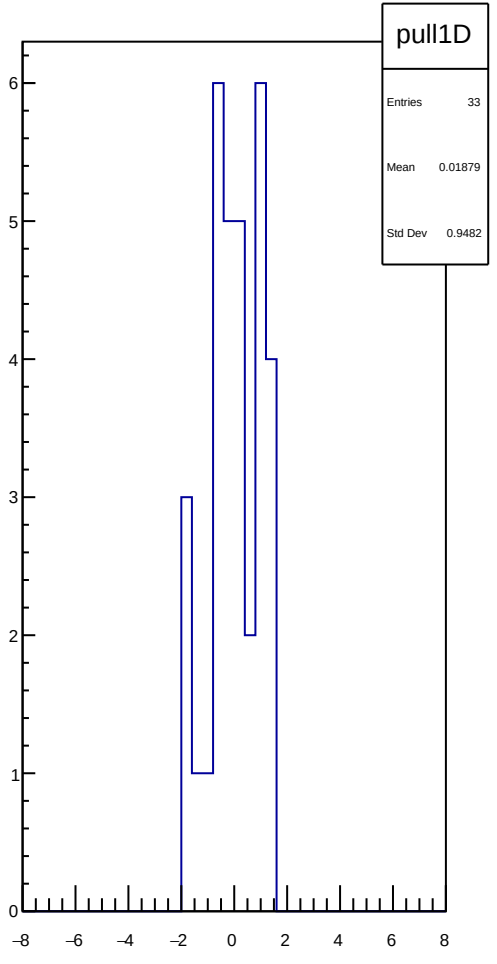

pull1D
Entries 26
Mean −0.129
Std Dev 0.7433
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

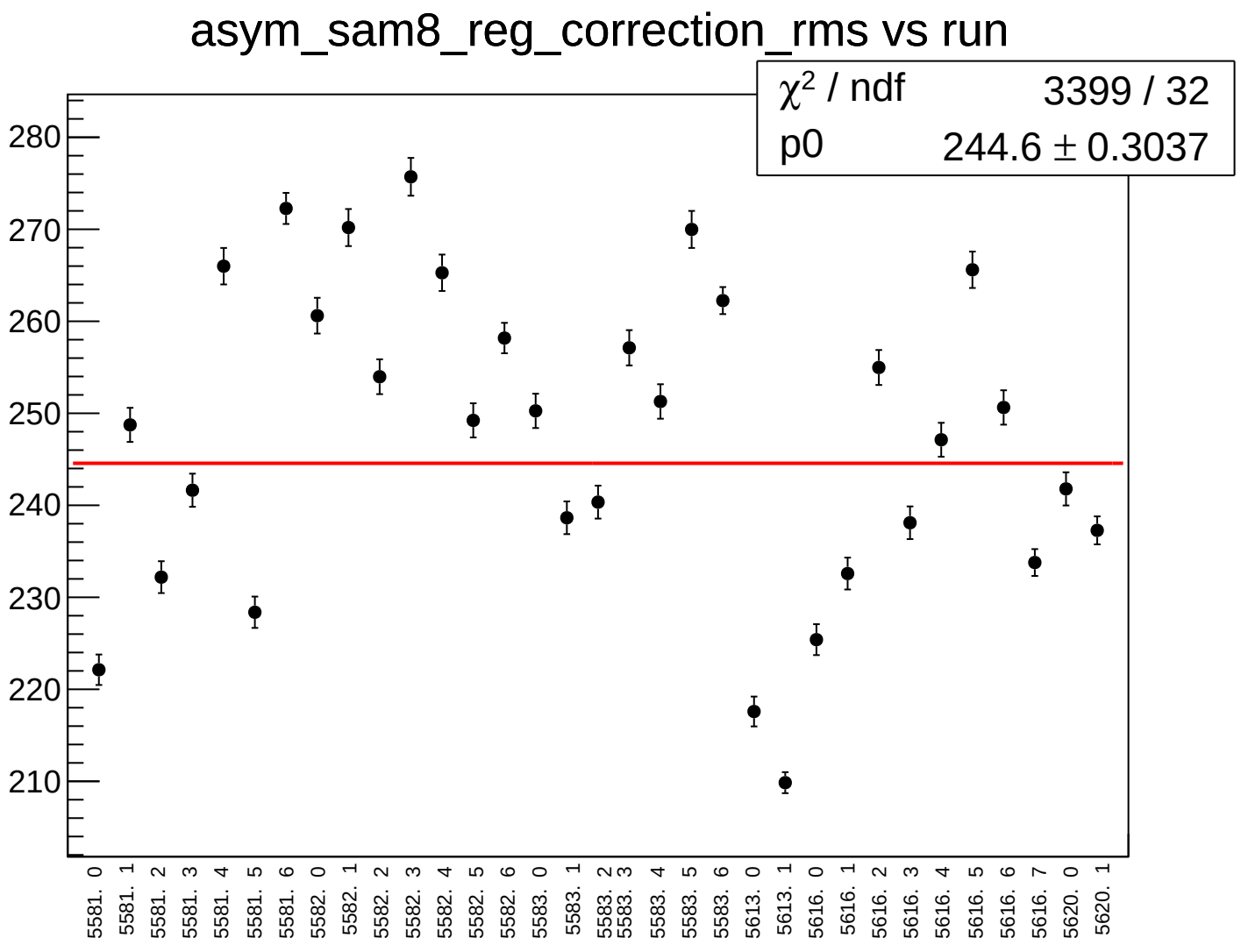

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.105e+05 / 25
p0 3.36e−11 ± 5.263e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

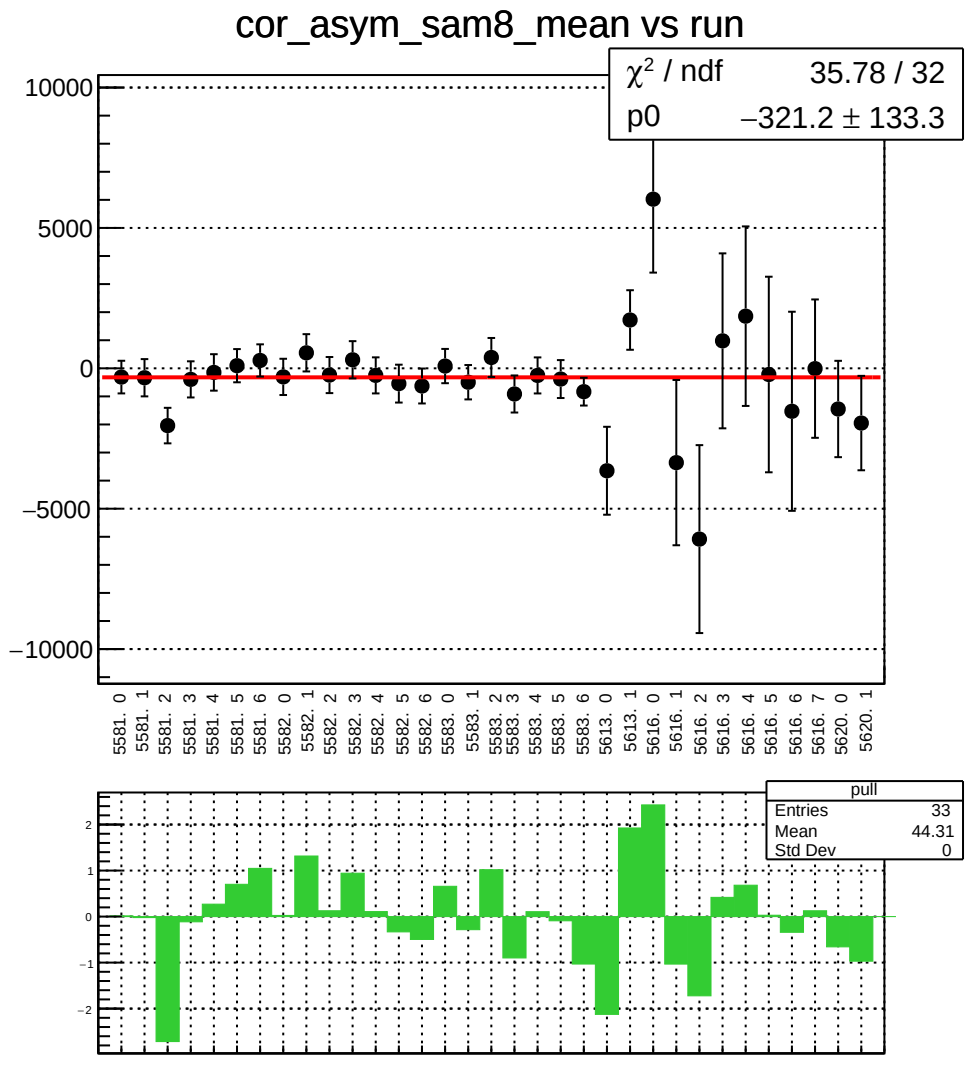

reg_asym_sam8_mean vs run
χ² / ndf 39.08 / 32
p0 −319.9 ± 130.9
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.62
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean −0.04061
Std Dev 1.087
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

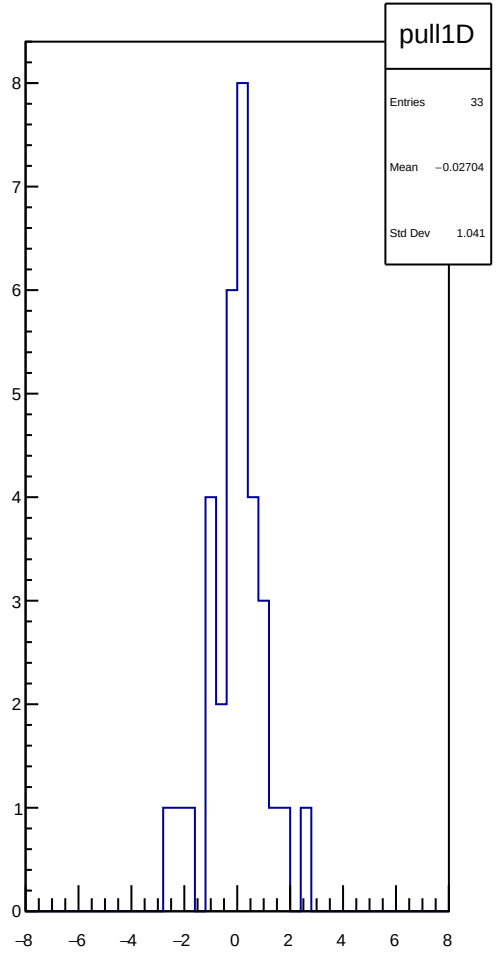

reg_asym_sam8_rms vs run
χ² / ndf 8.676e+04 / 32
p0 69.58 ± 0.09256
240
220
200
180
160
140
120
100
80
60
40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

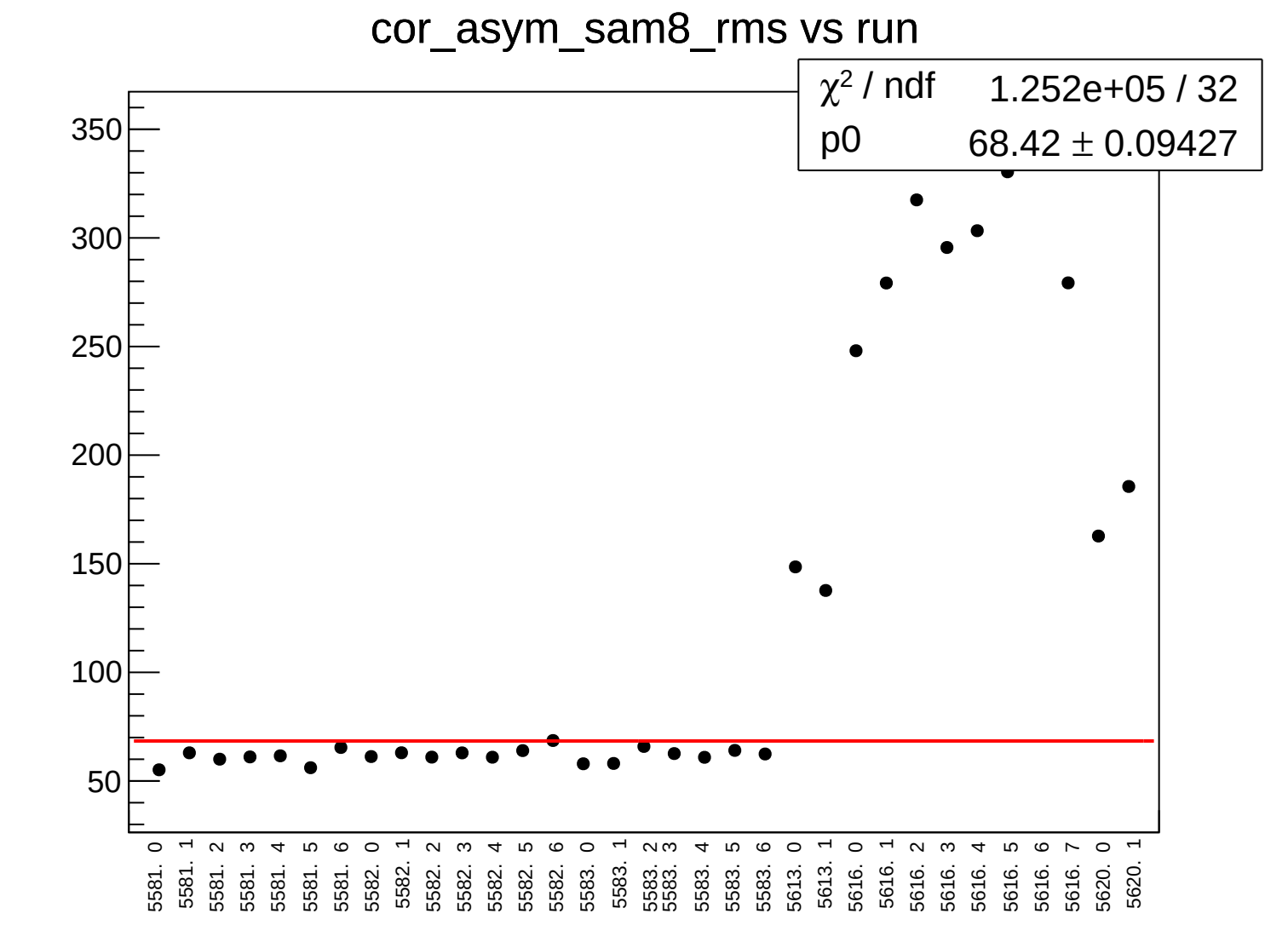

asym_sam8_reg_correction_mean vs run
χ² / ndf 29.68 / 32
p0 −106.8 ± 429.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −7.142
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

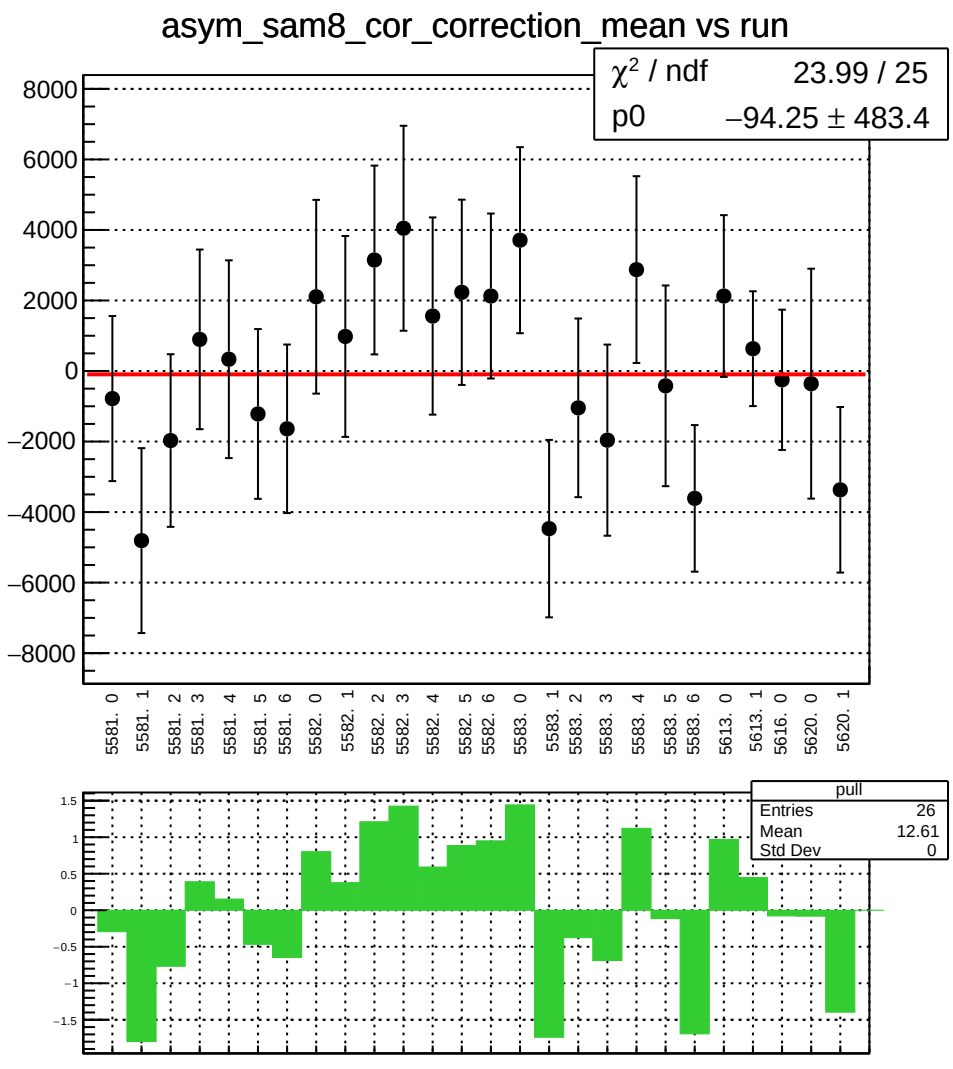

pull1D
Entries 33
Mean 0.01879
Std Dev 0.9482
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

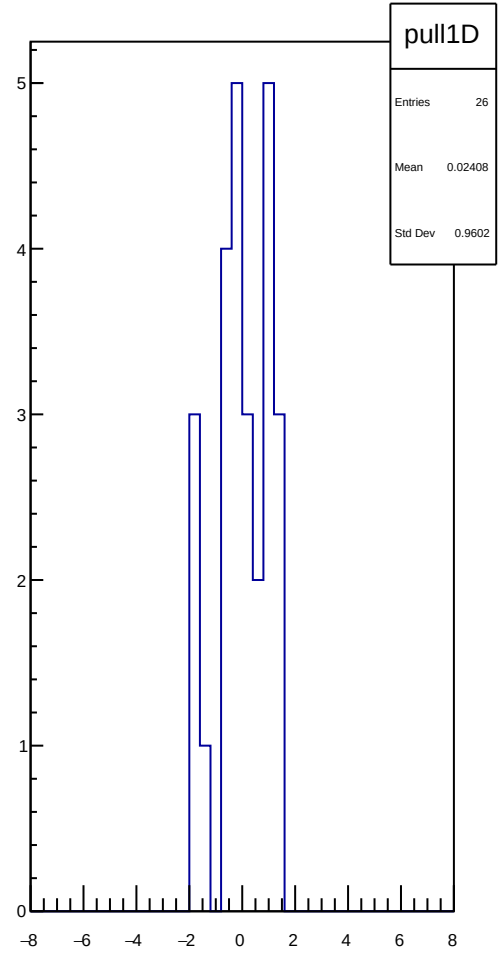

asym_sam8_reg_correction_rms vs run
χ² / ndf 3399 / 32
p0 244.6 ± 0.3037
280
270
260
250
240
230
220
210
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

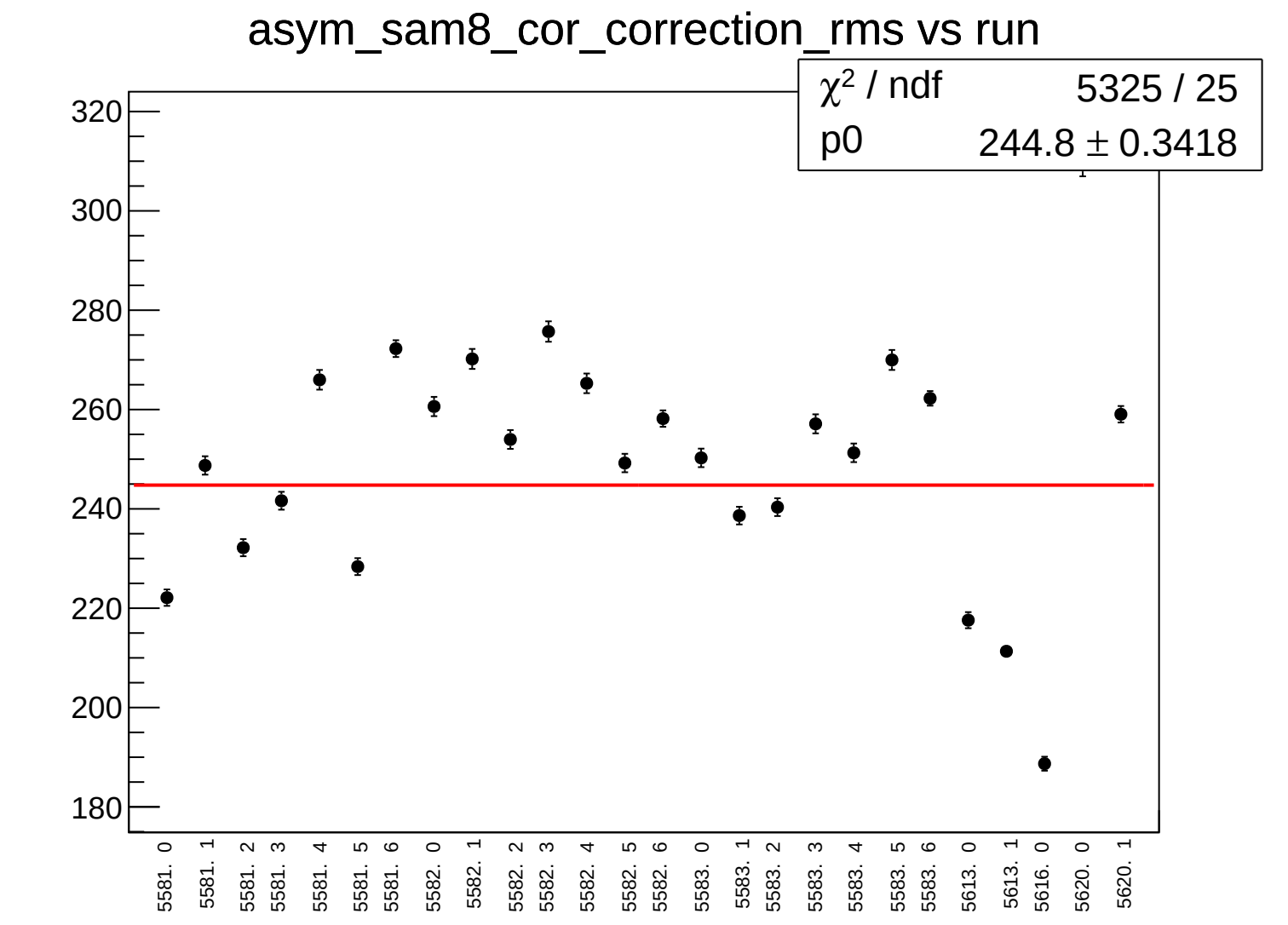

cor_asym_sam8_mean vs run
χ² / ndf 35.78 / 32
p0 −321.2 ± 133.3
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 44.31
Std Dev 0
2
1
0
−1
−2

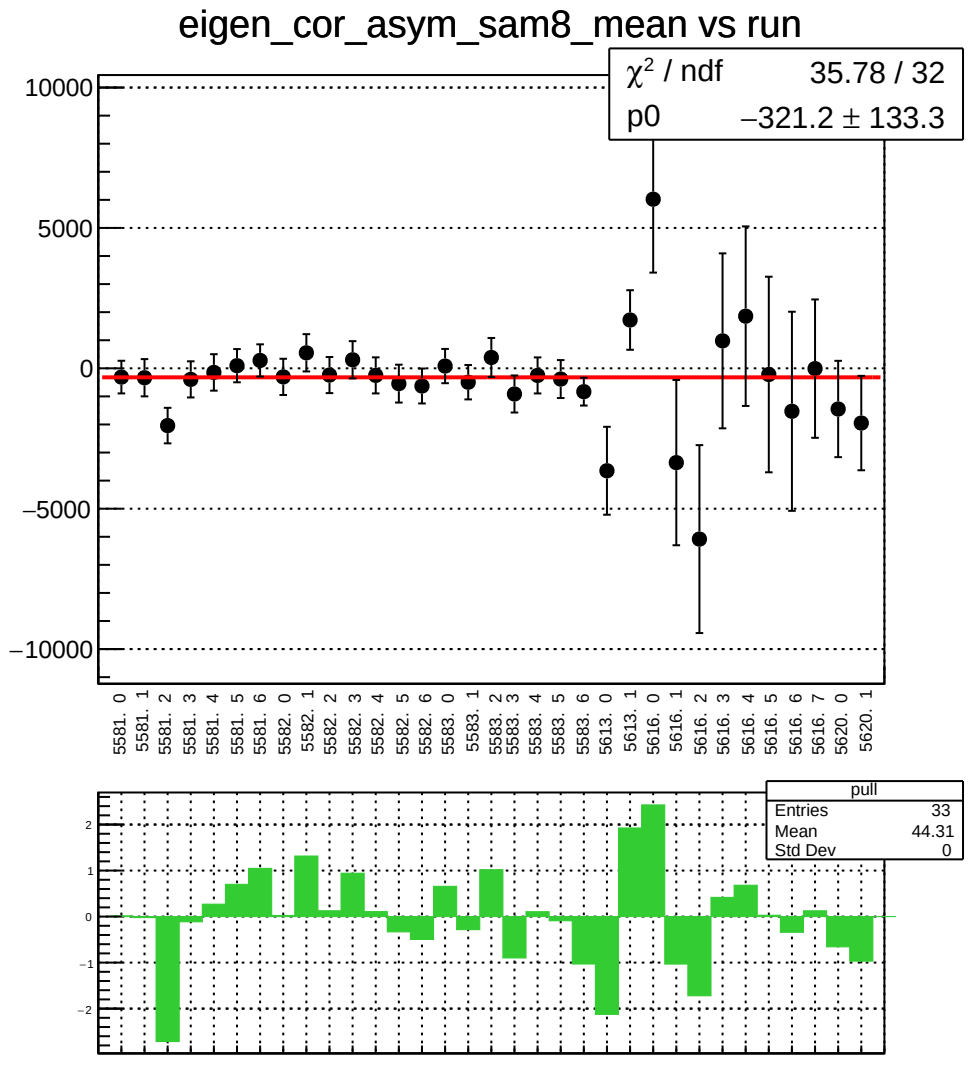

pull1D
Entries 33
Mean −0.02704
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

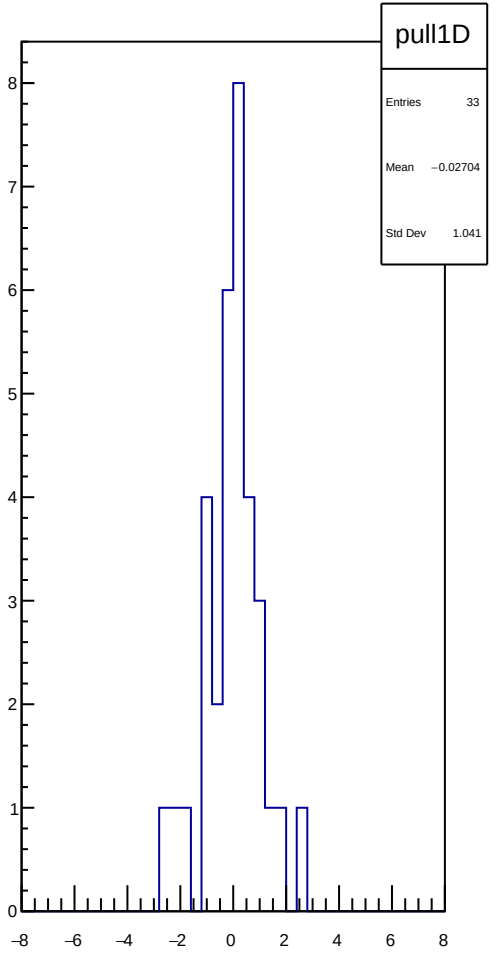

cor_asym_sam8_rms vs run
χ² / ndf 1.252e+05 / 32
p0 68.42 ± 0.09427
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

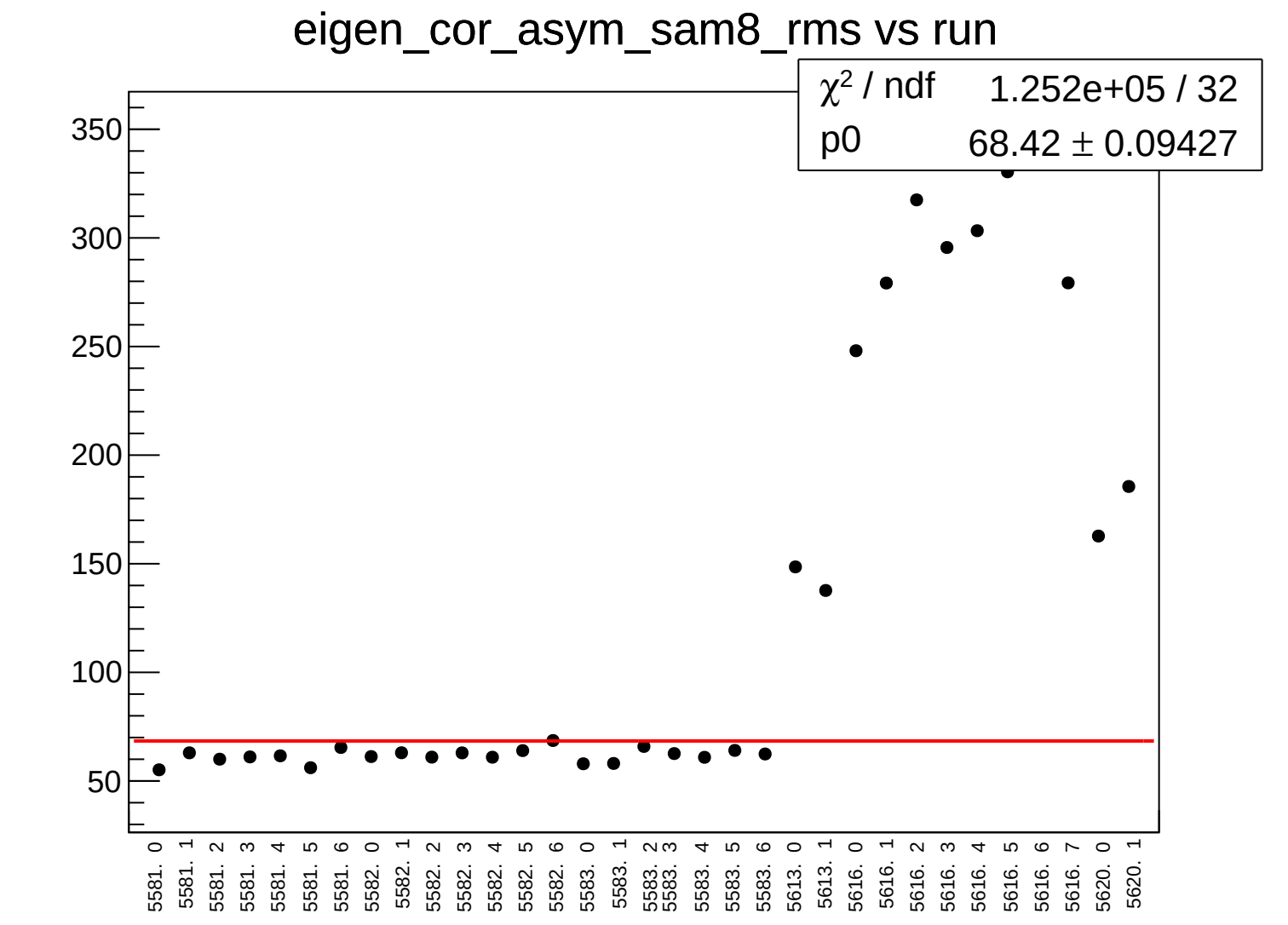

asym_sam8_cor_correction_mean vs run
χ² / ndf 23.99 / 25
p0 −94.25 ± 483.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 12.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

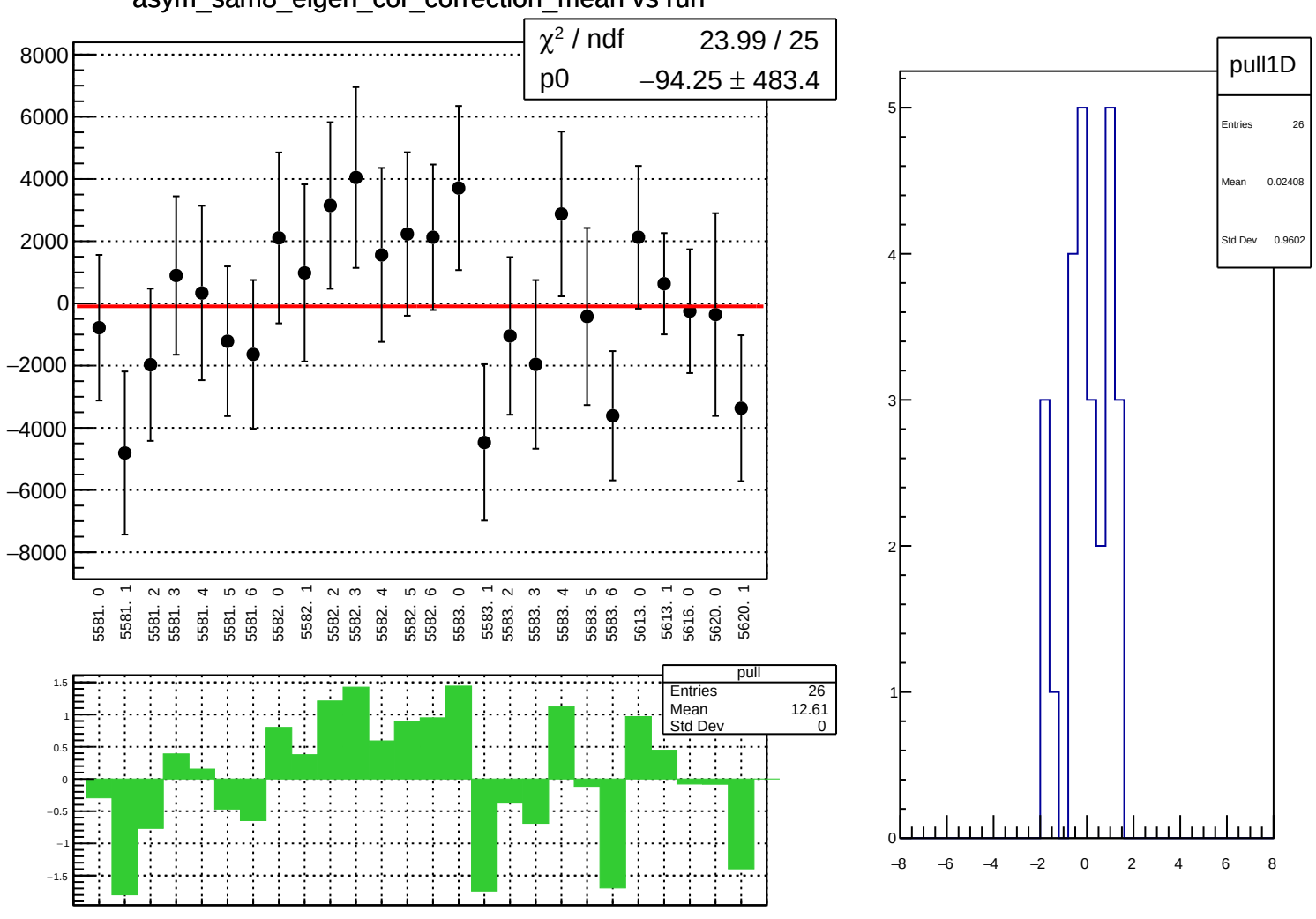

pull1D
Entries 26
Mean 0.02408
Std Dev 0.9602
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

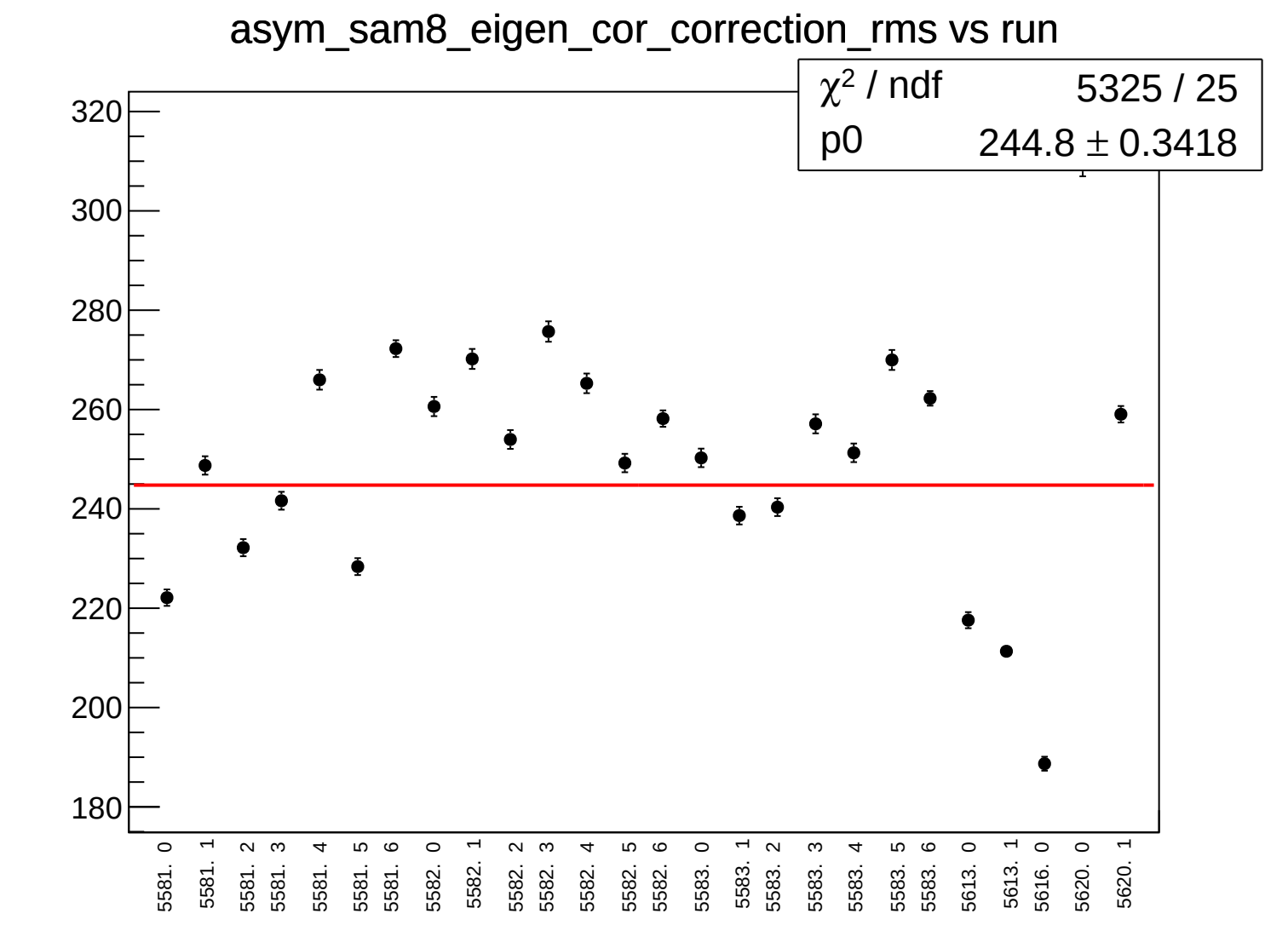

asym_sam8_cor_correction_rms vs run
χ² / ndf 5325 / 25
p0 244.8 ± 0.3418
320
300
280
260
240
220
200
180
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

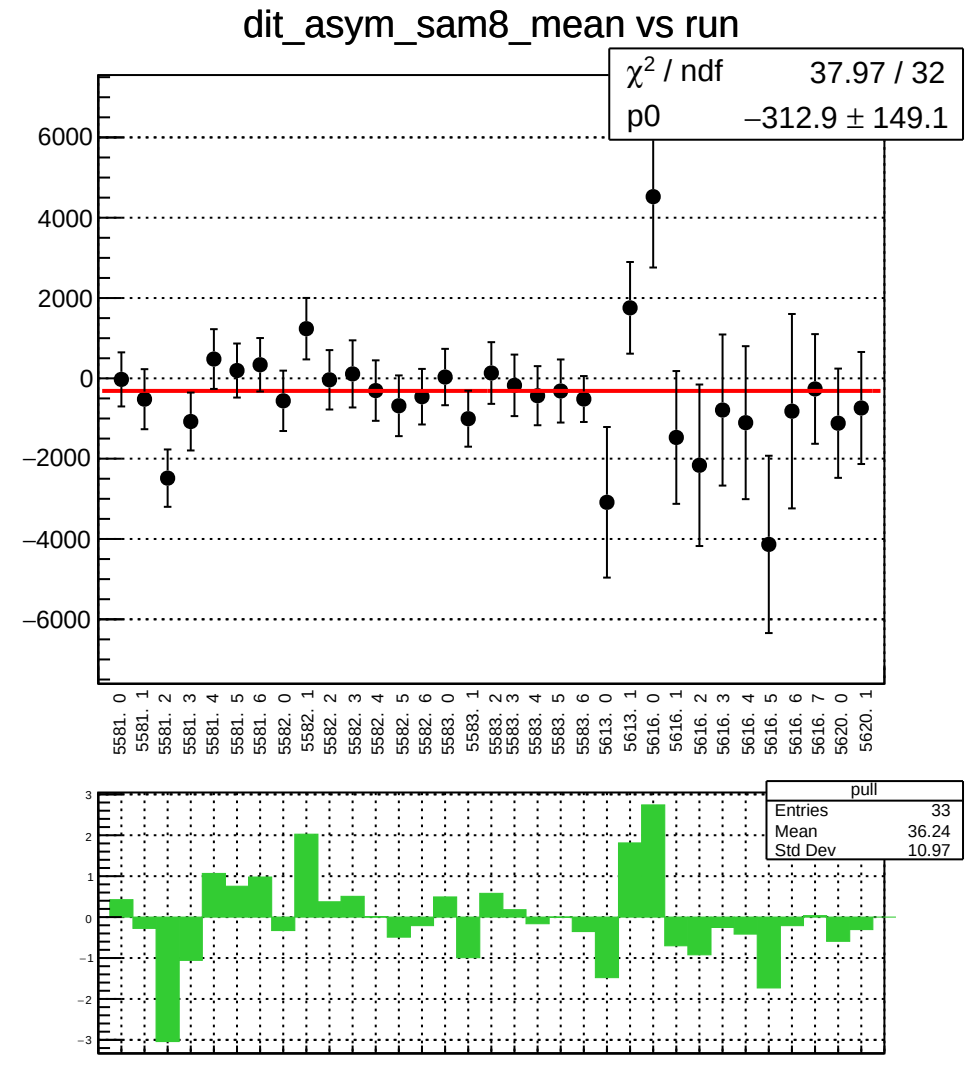

eigen_cor_asym_sam8_mean vs run
χ² / ndf 35.78 / 32
p0 −321.2 ± 133.3
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 44.31
Std Dev 0
2
1
0
−1
−2

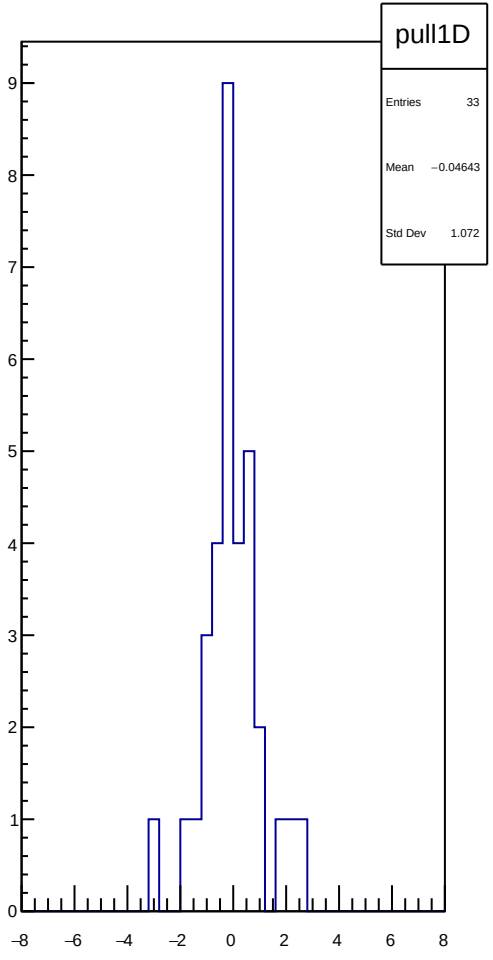

pull1D
Entries 33
Mean −0.02704
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

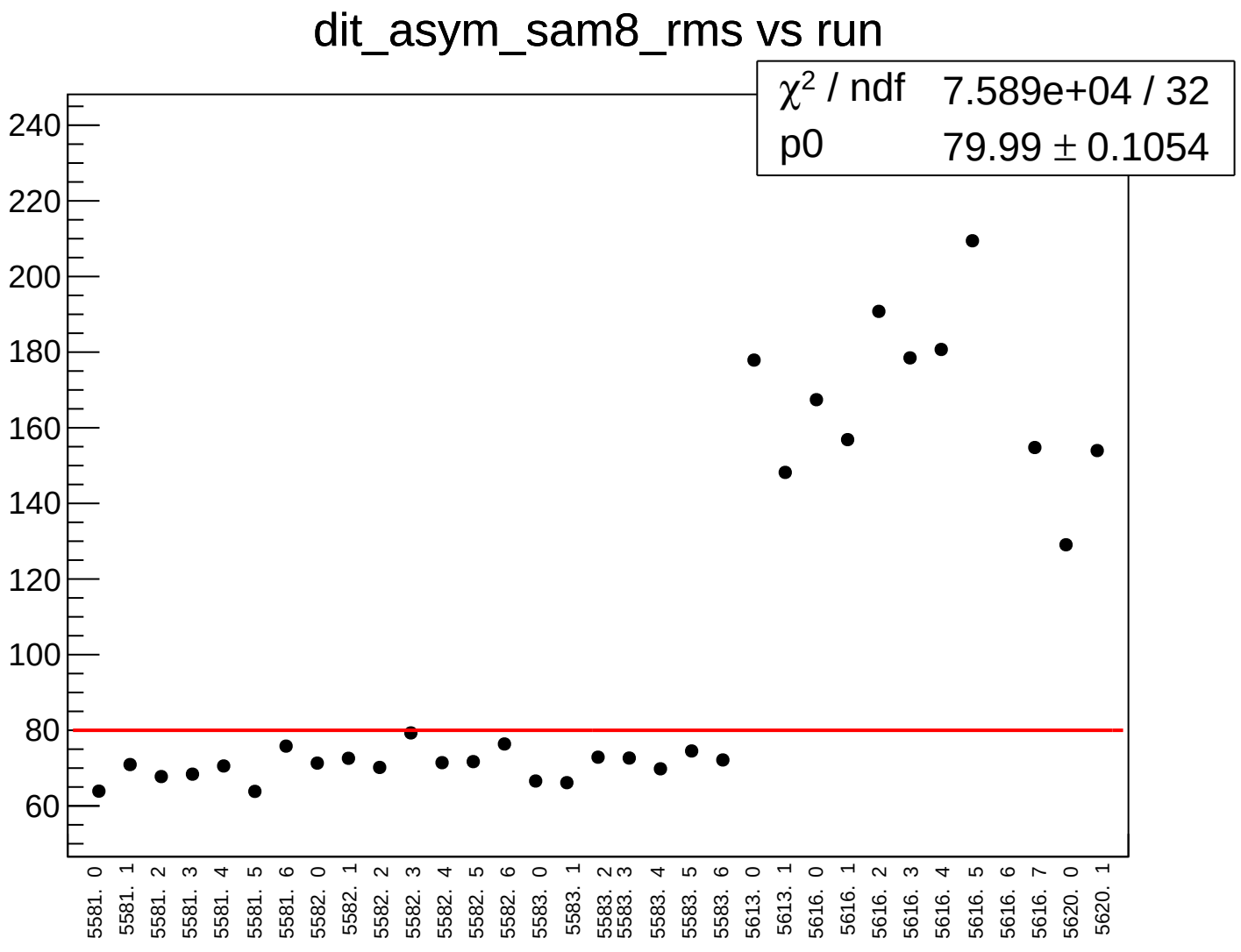

eigen_cor_asym_sam8_rms vs run
χ² / ndf 1.252e+05 / 32
p0 68.42 ± 0.09427
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

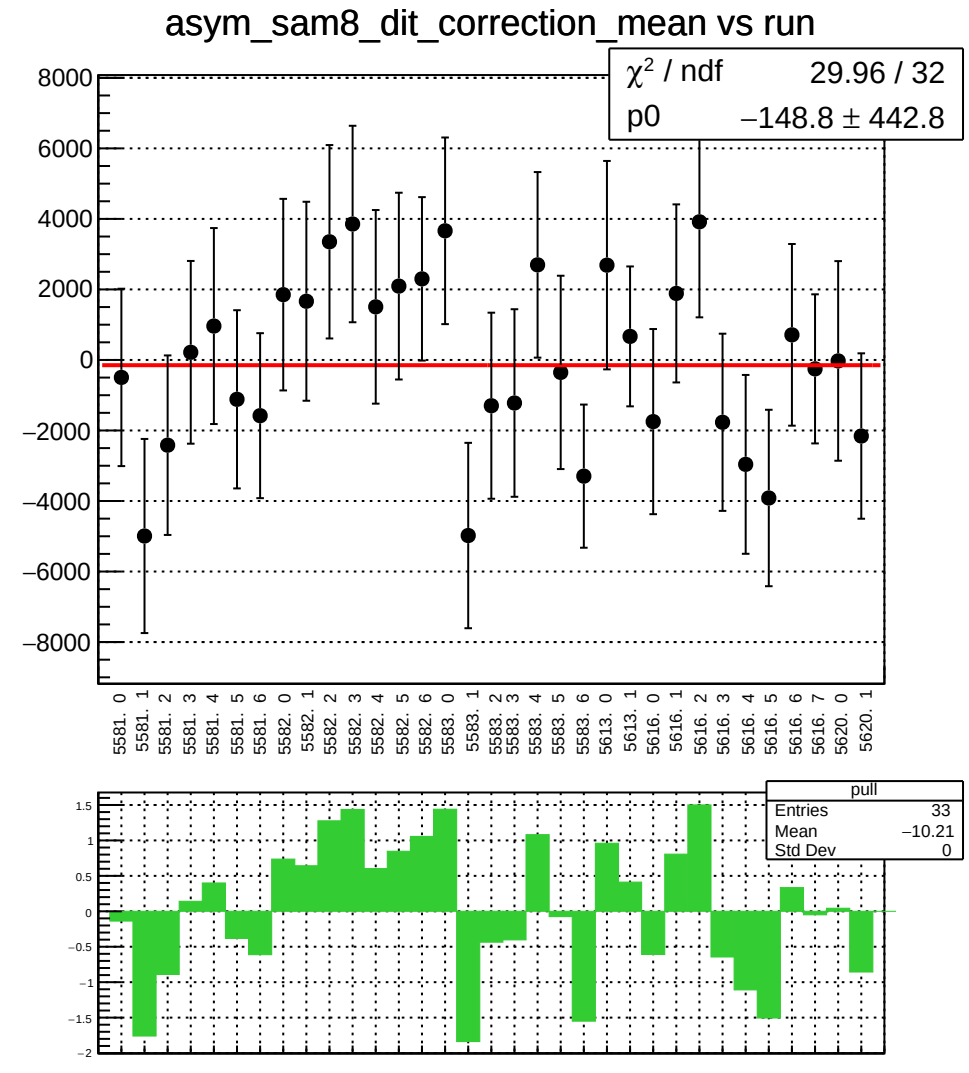

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 23.99 / 25
p0 −94.25 ± 483.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 12.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.02408
Std Dev 0.9602
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

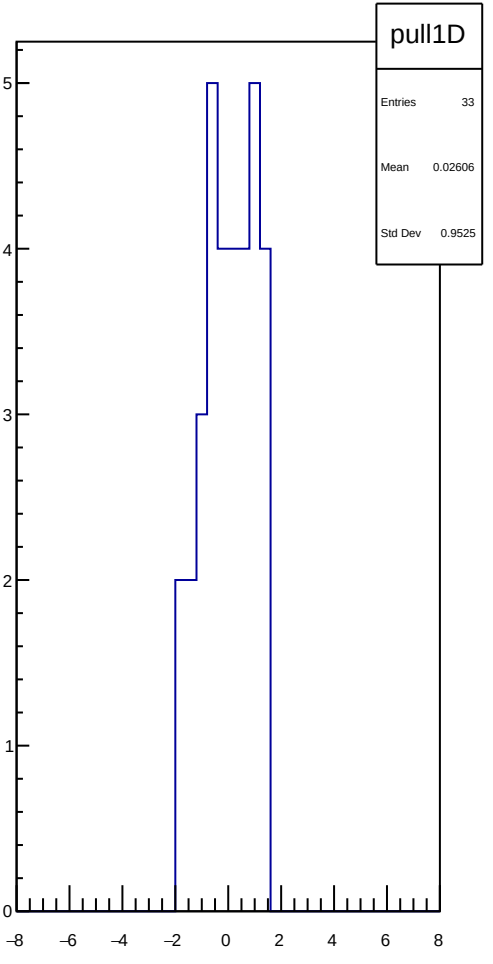

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 5325 / 25
p0 244.8 ± 0.3418
320
300
280
260
240
220
200
180
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

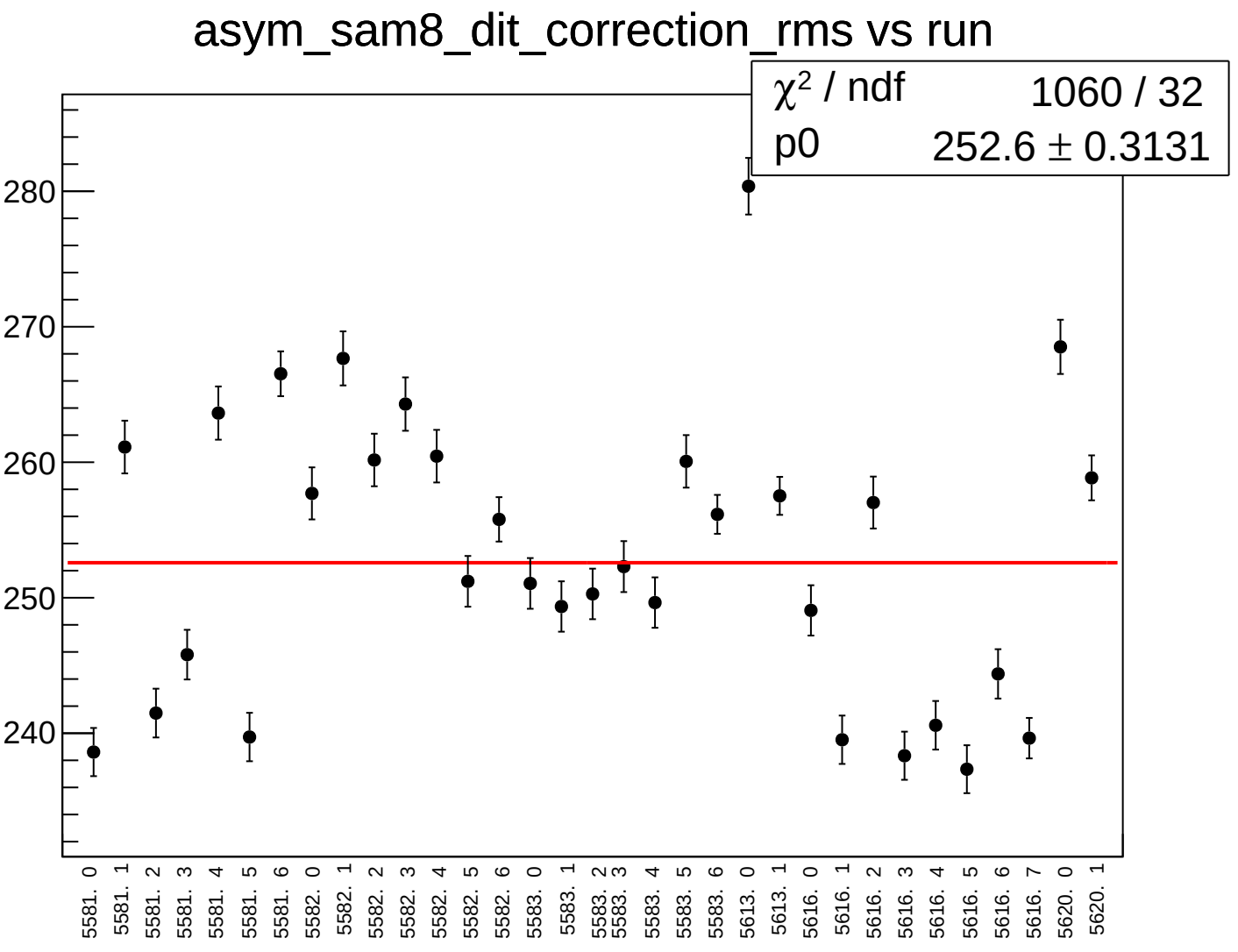

dit_asym_sam8_mean vs run
χ² / ndf 37.97 / 32
p0 −312.9 ± 149.1
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.24
Std Dev 10.97
3
2
1
0
−1
−2
−3

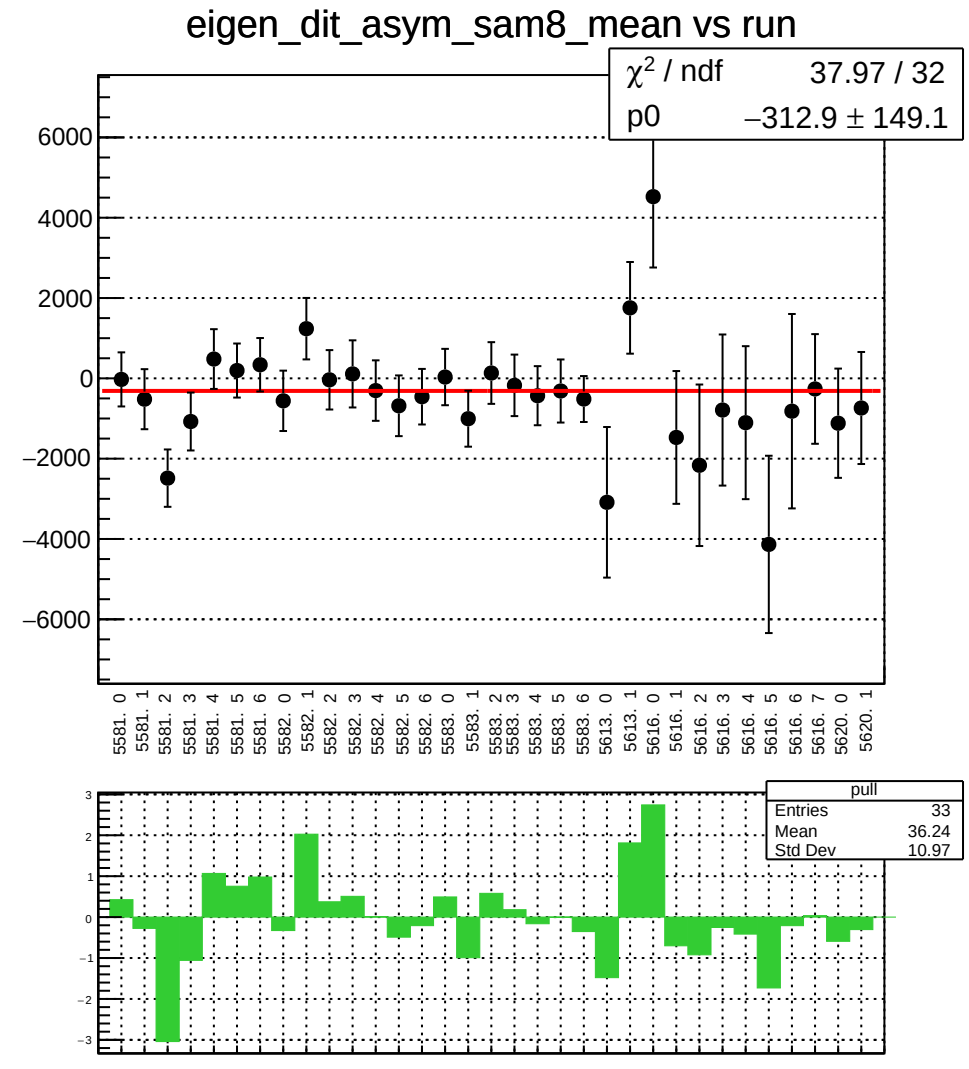

pull1D
Entries 33
Mean −0.04643
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

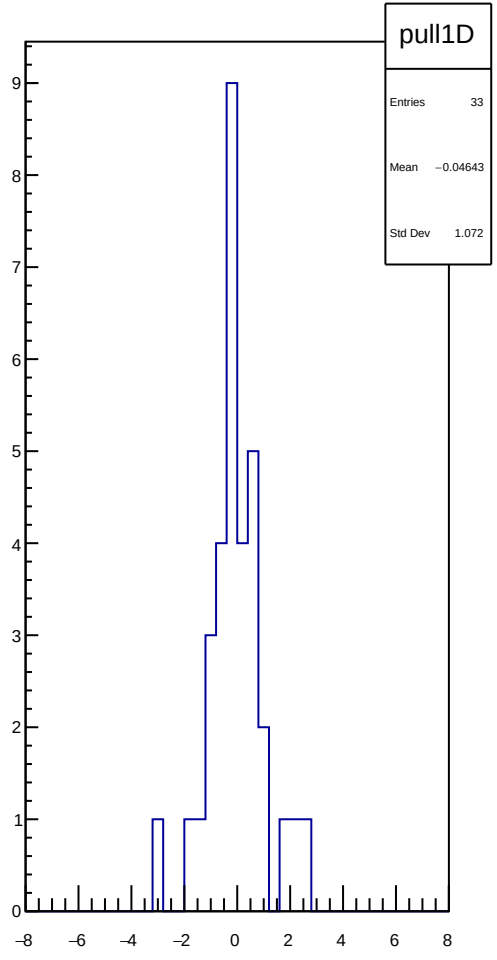

dit_asym_sam8_rms vs run
χ² / ndf 7.589e+04 / 32
p0 79.99 ± 0.1054
240
220
200
180
160
140
120
100
80
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

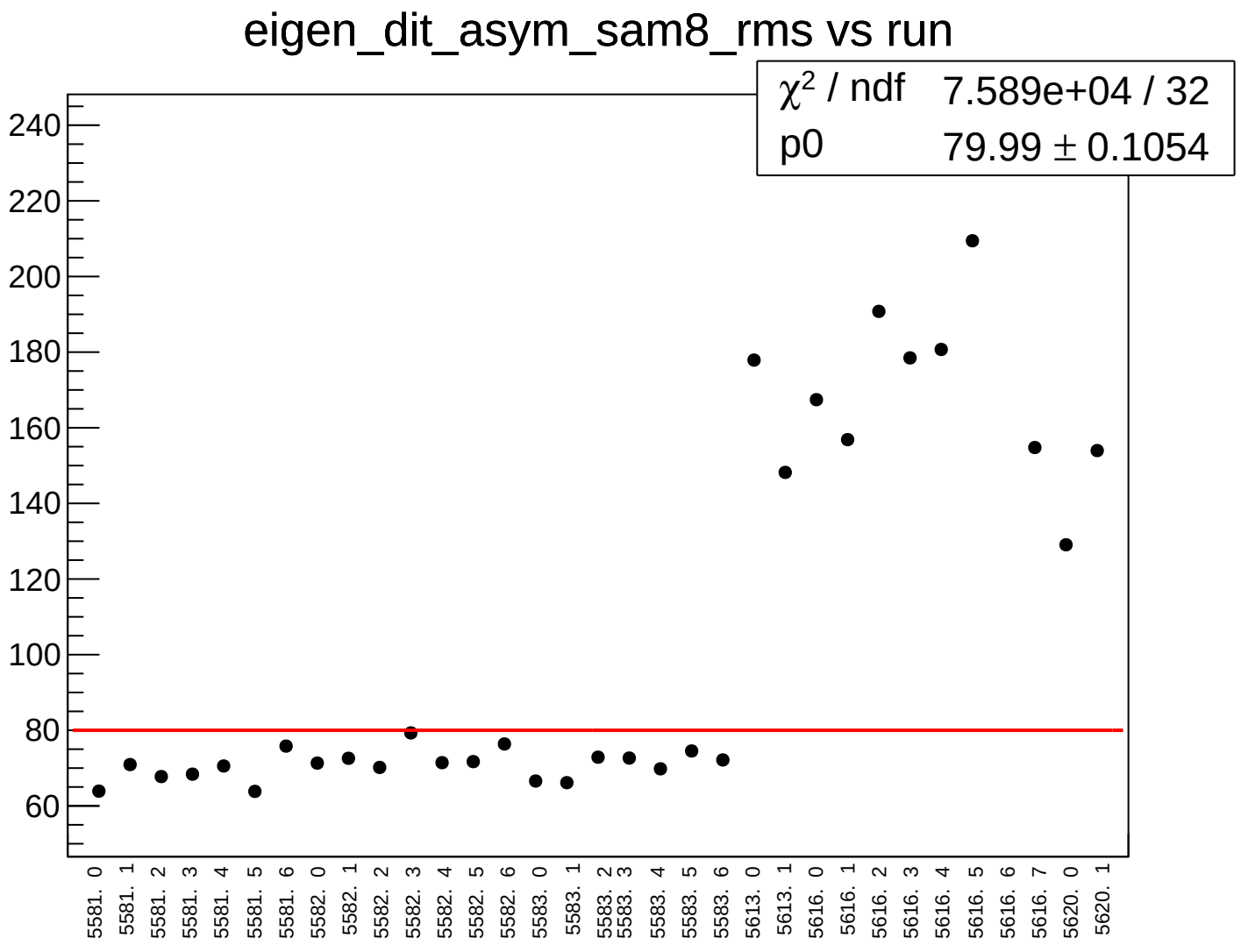

asym_sam8_dit_correction_mean vs run
χ² / ndf 29.96 / 32
p0 −148.8 ± 442.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −10.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

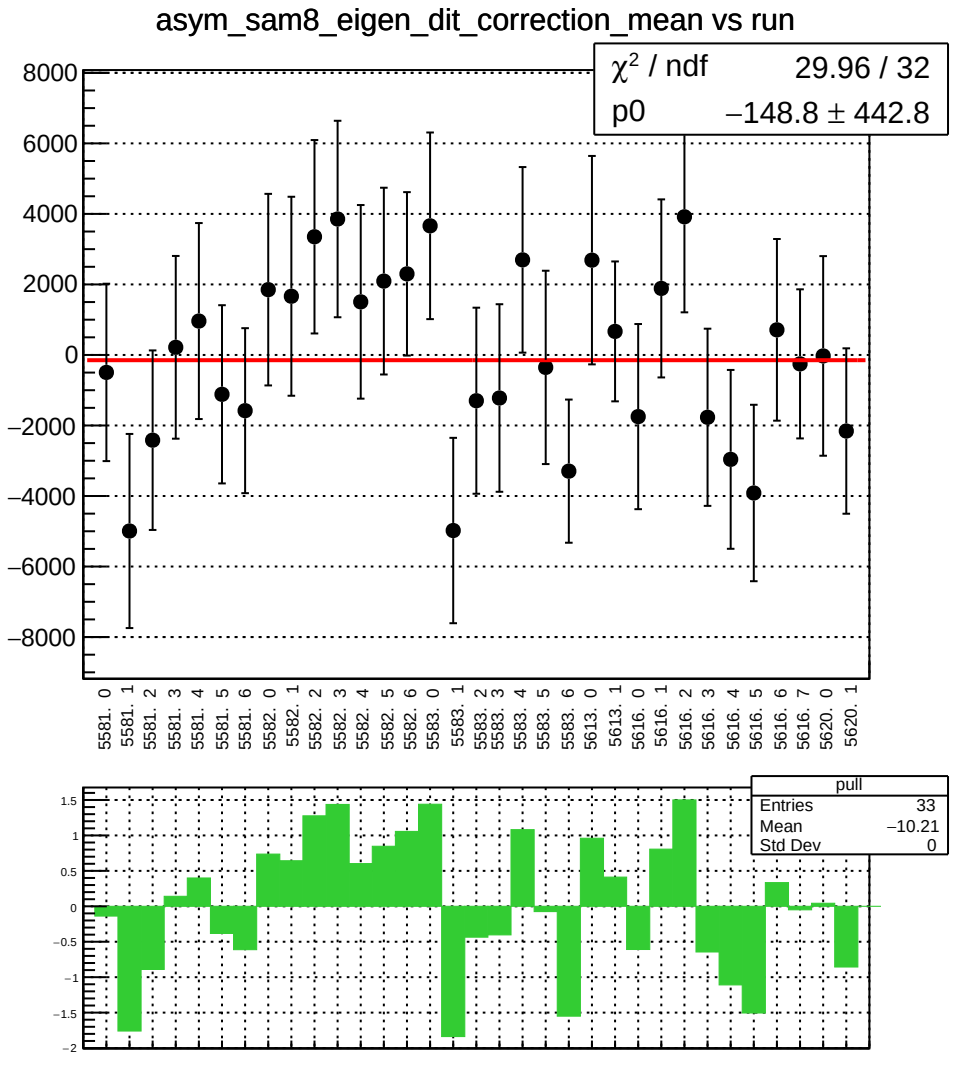

pull1D
Entries 33
Mean 0.02606
Std Dev 0.9525
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

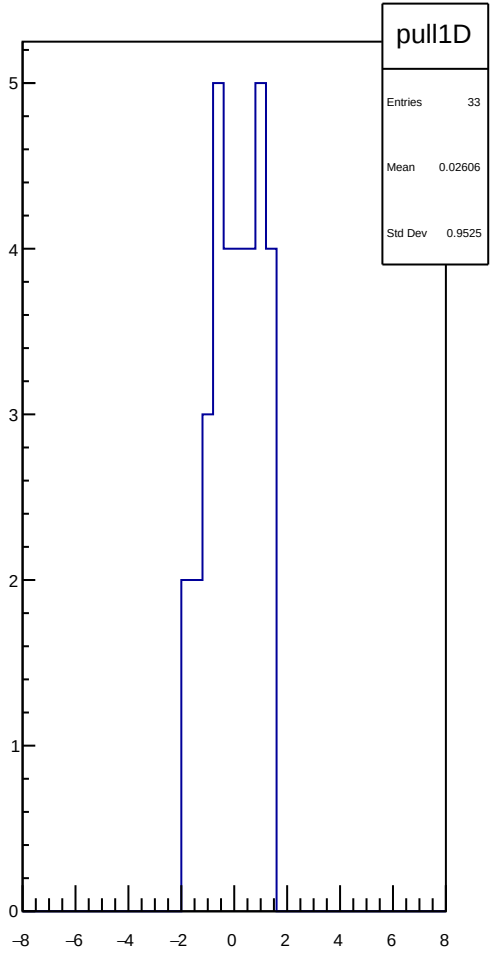

asym_sam8_dit_correction_rms vs run
χ² / ndf 1060 / 32
p0 252.6 ± 0.3131
280
270
260
250
240
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

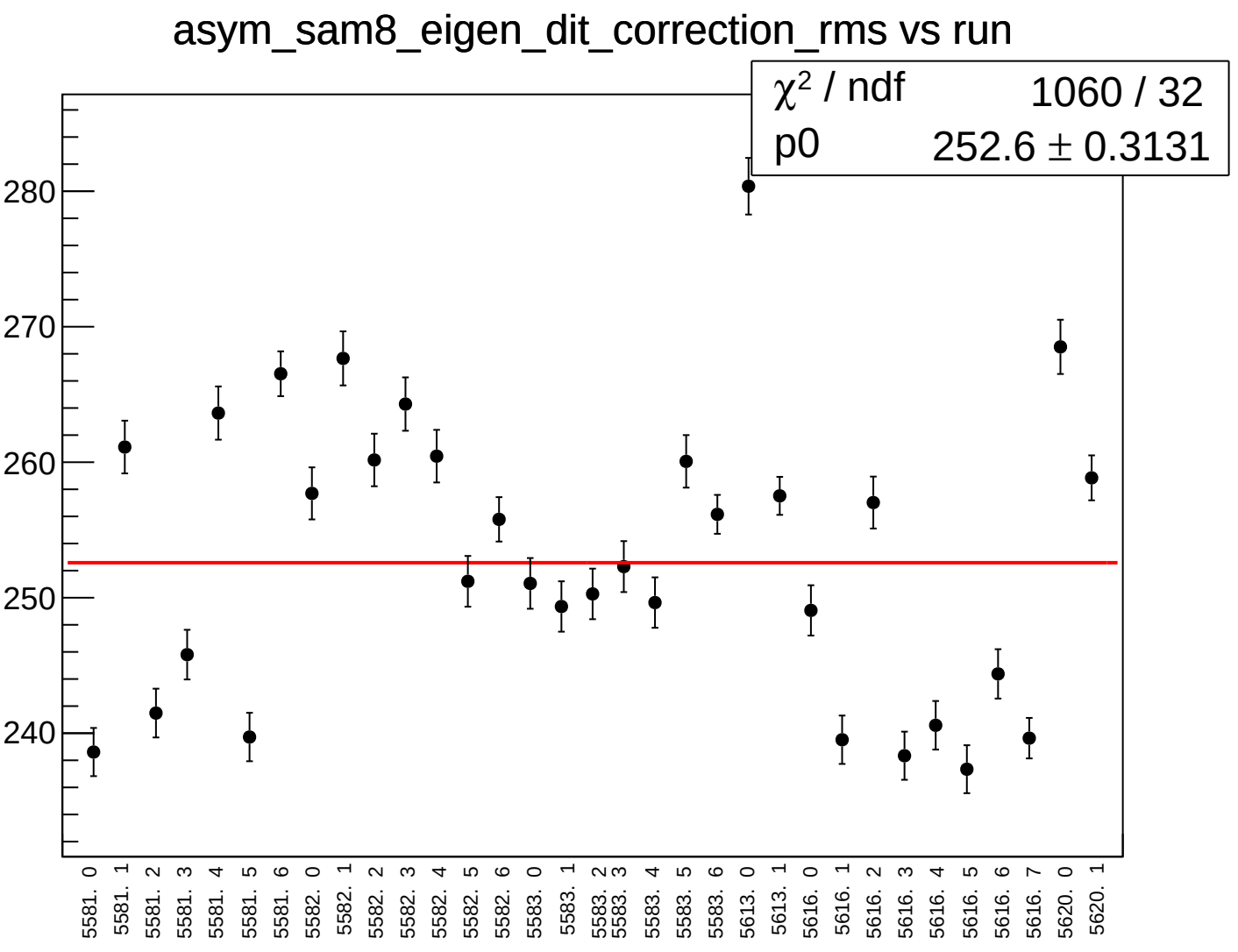

eigen_dit_asym_sam8_mean vs run
χ² / ndf 37.97 / 32
p0 −312.9 ± 149.1
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.24
Std Dev 10.97
3
2
1
0
−1
−2
−3

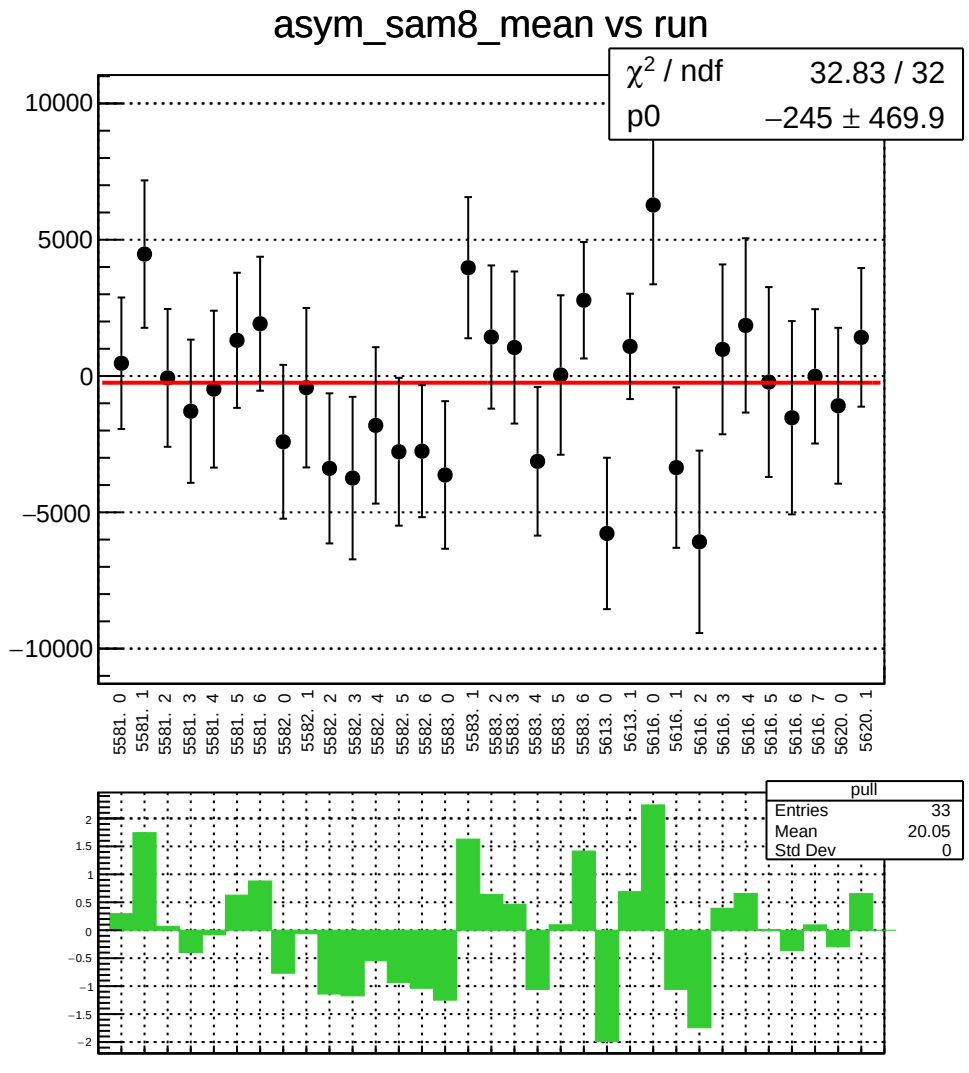

pull1D
Entries 33
Mean −0.04643
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

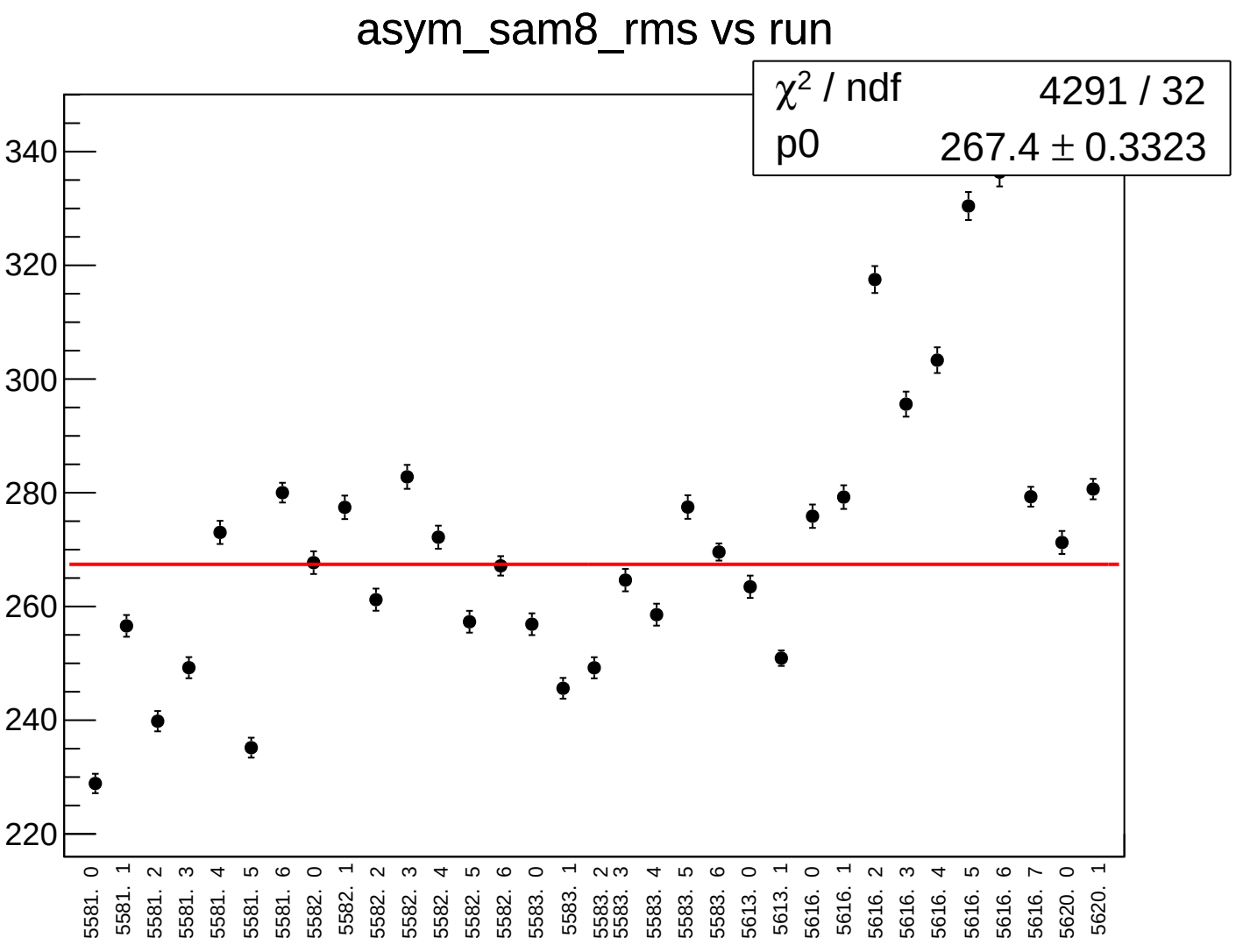

eigen_dit_asym_sam8_rms vs run
χ² / ndf 7.589e+04 / 32
p0 79.99 ± 0.1054
240
220
200
180
160
140
120
100
80
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

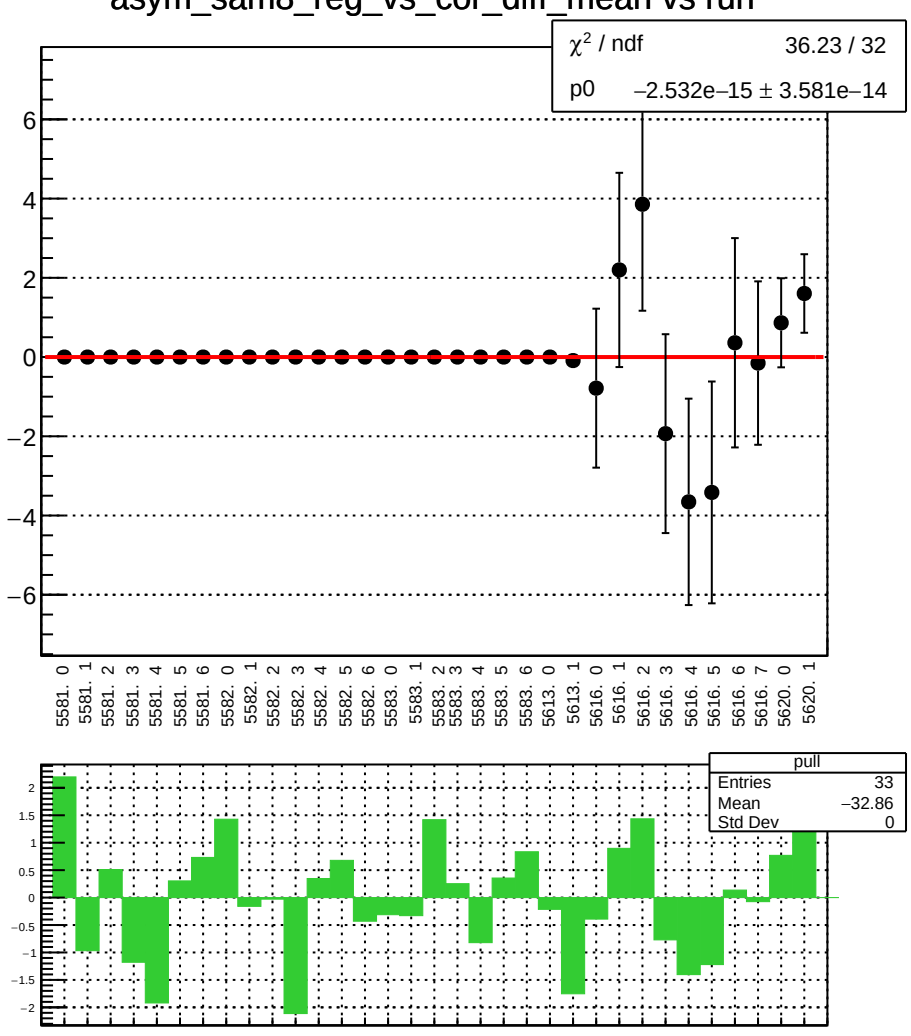

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 29.96 / 32
p0 −148.8 ± 442.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −10.21
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

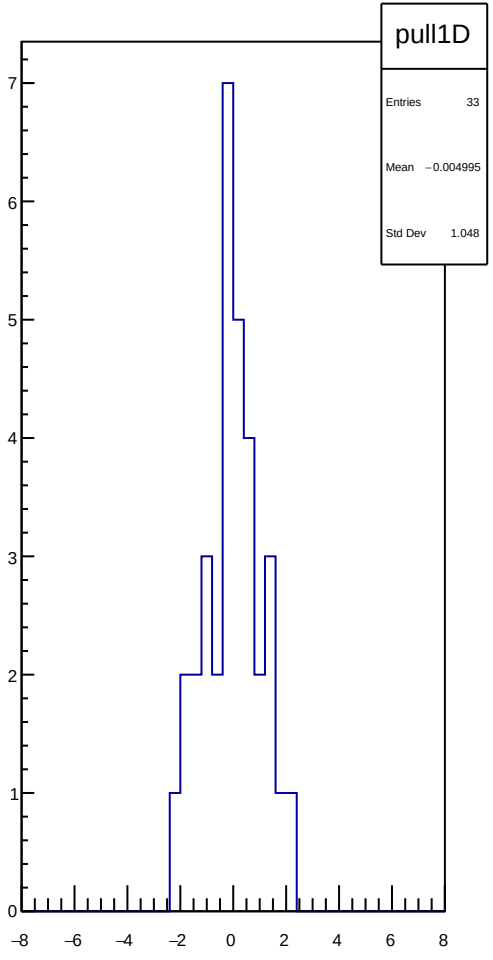

pull1D
Entries 33
Mean 0.02606
Std Dev 0.9525
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

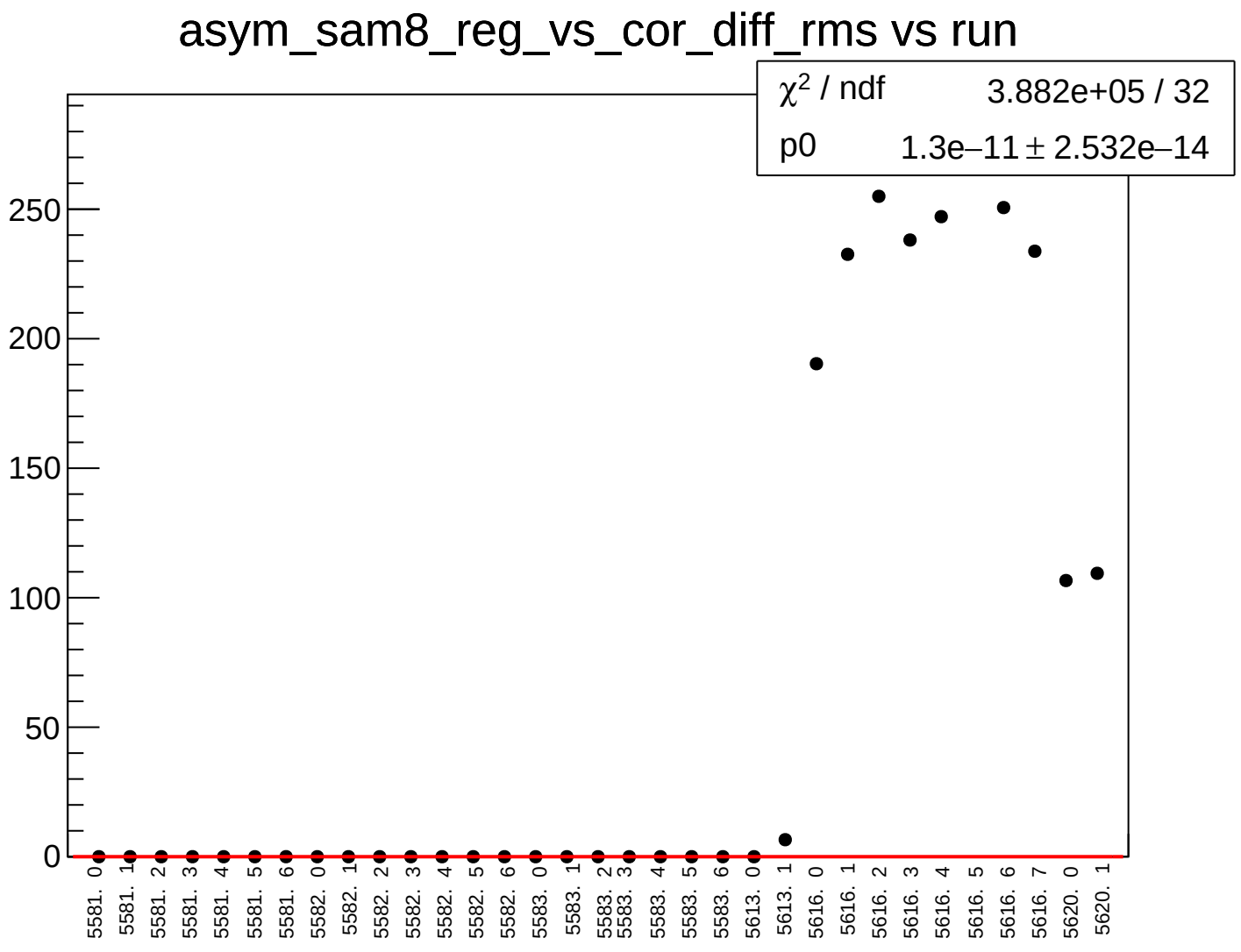

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 1060 / 32
p0 252.6 ± 0.3131
280
270
260
250
240
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

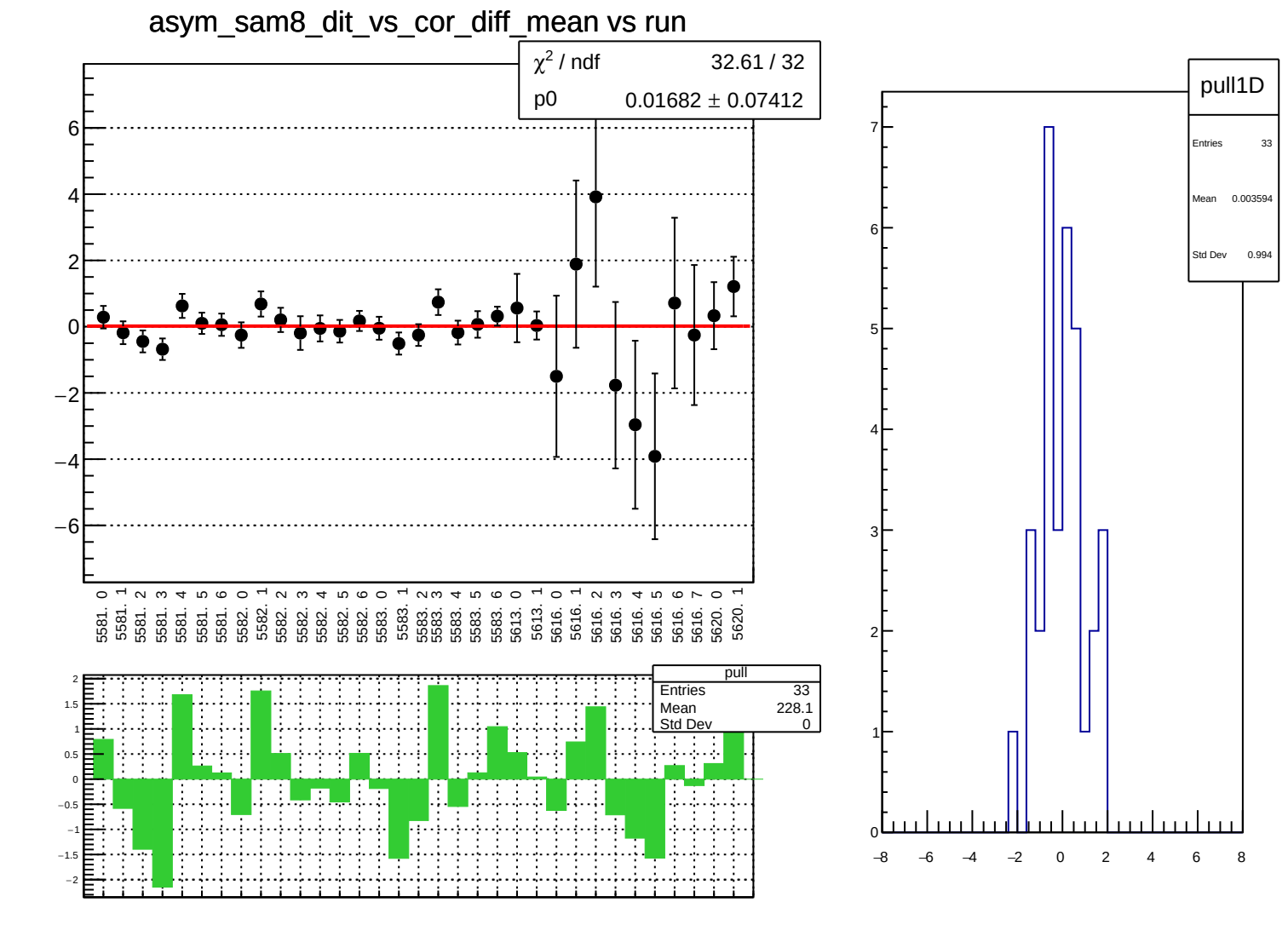

asym_sam8_mean vs run
χ² / ndf 32.83 / 32
p0 −245 ± 469.9
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.03949
Std Dev 0.9967
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

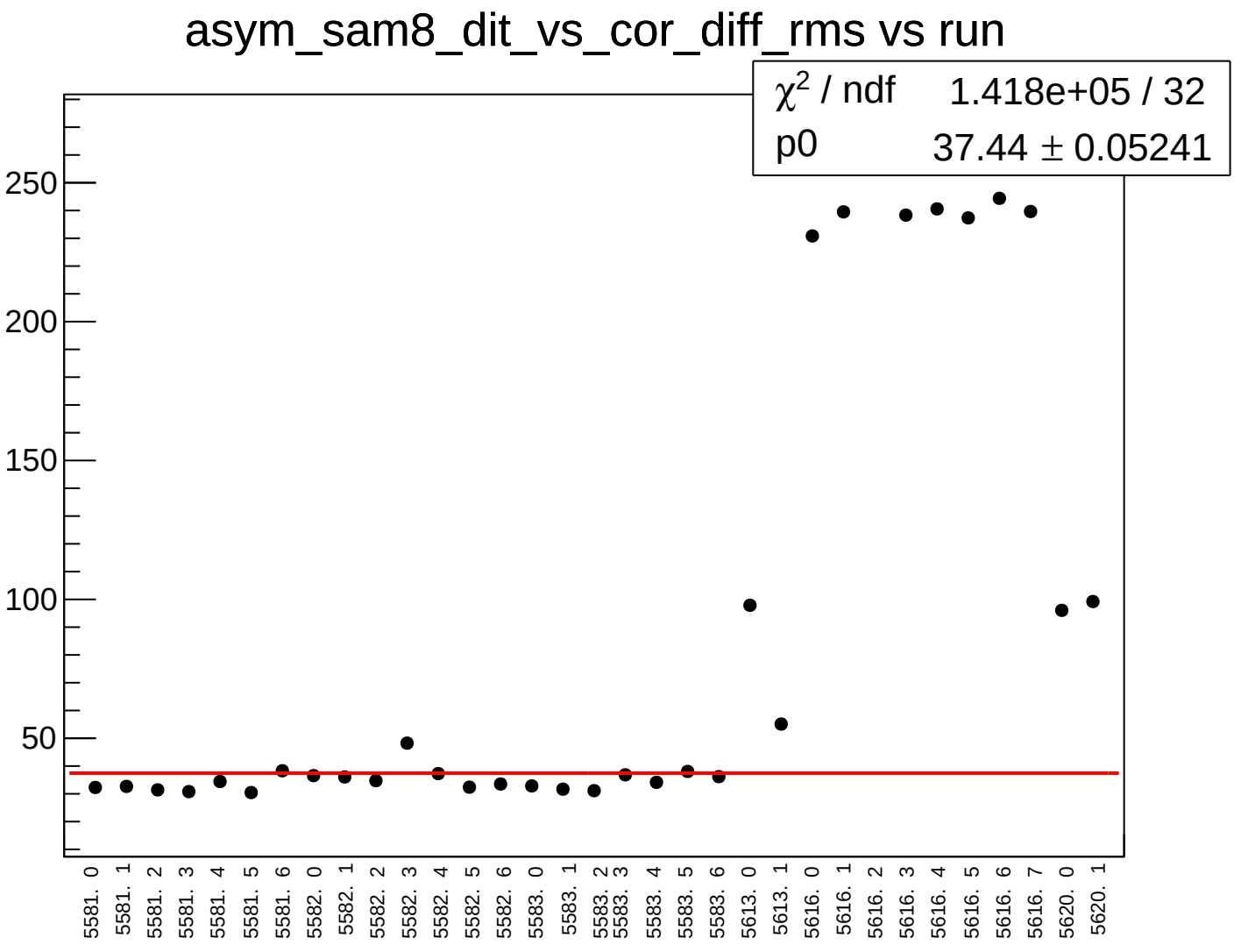

asym_sam8_rms vs run
χ² / ndf 4291 / 32
p0 267.4 ± 0.3323
340
320
300
280
260
240
220
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

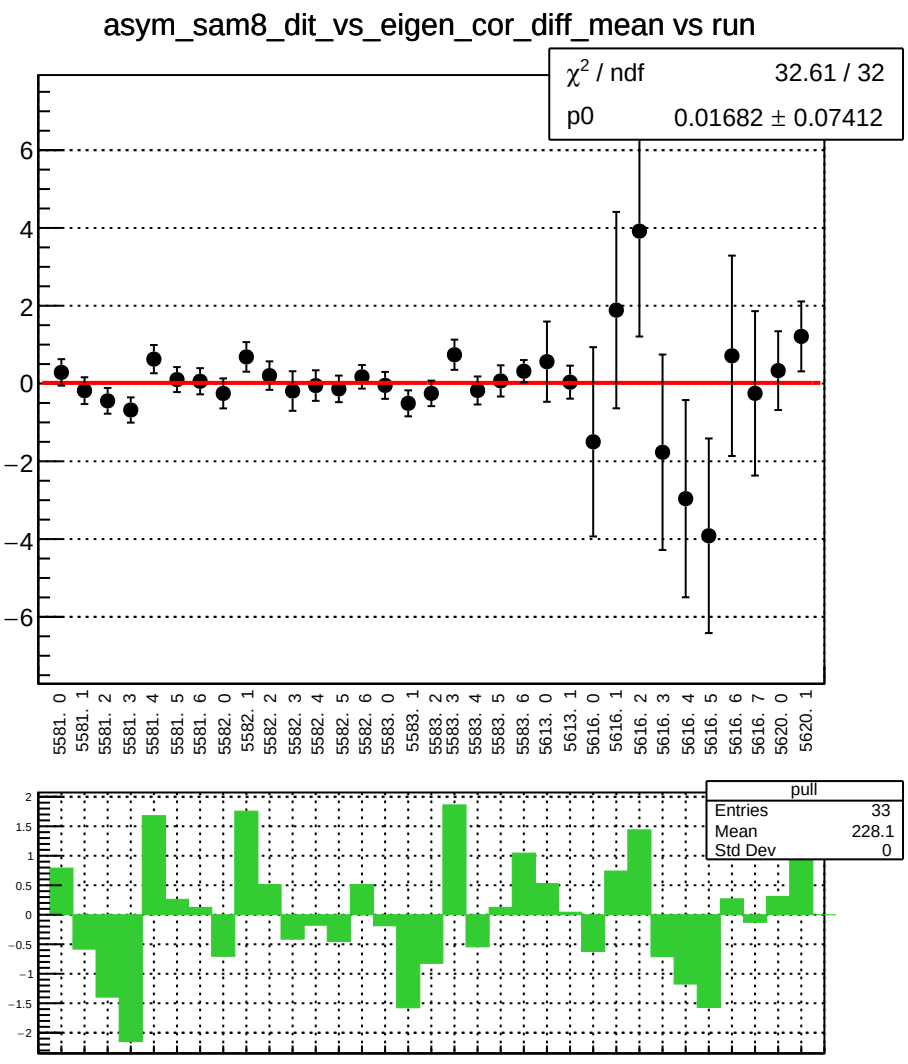

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 36.23 / 32
p0 −2.532e−15 ± 3.581e−14
6
4
2
0
−2
−4
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −32.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

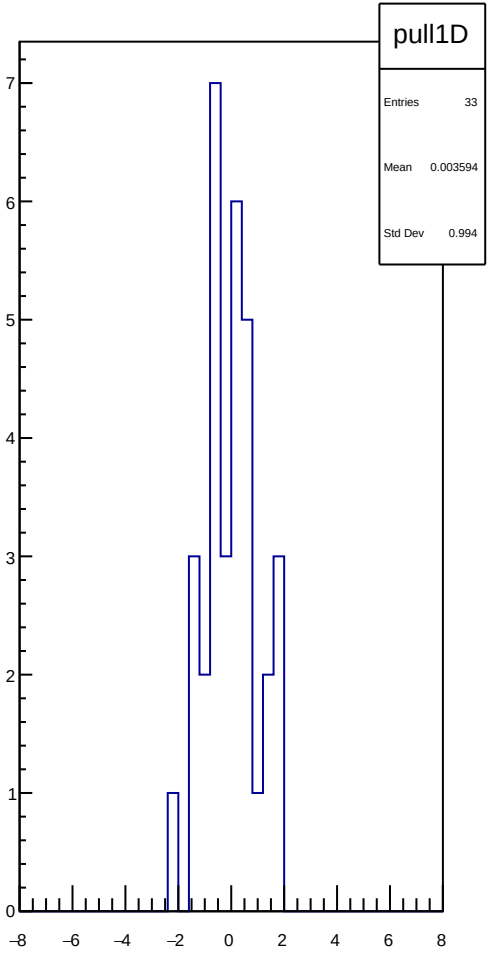

pull1D
Entries 33
Mean −0.004995
Std Dev 1.048
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

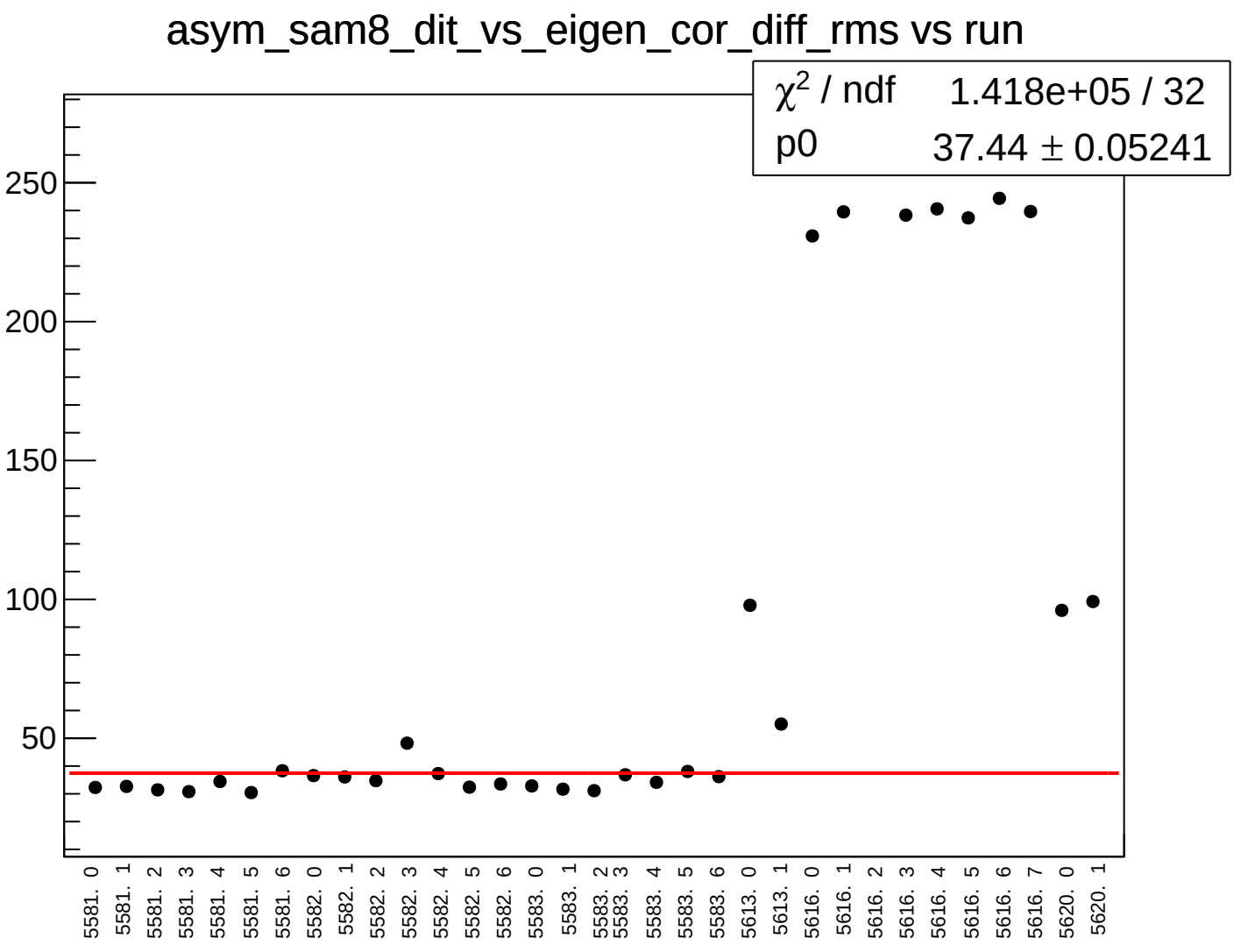

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 3.882e+05 / 32
p0 1.3e−11 ± 2.532e−14
250
200
150
100
50
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

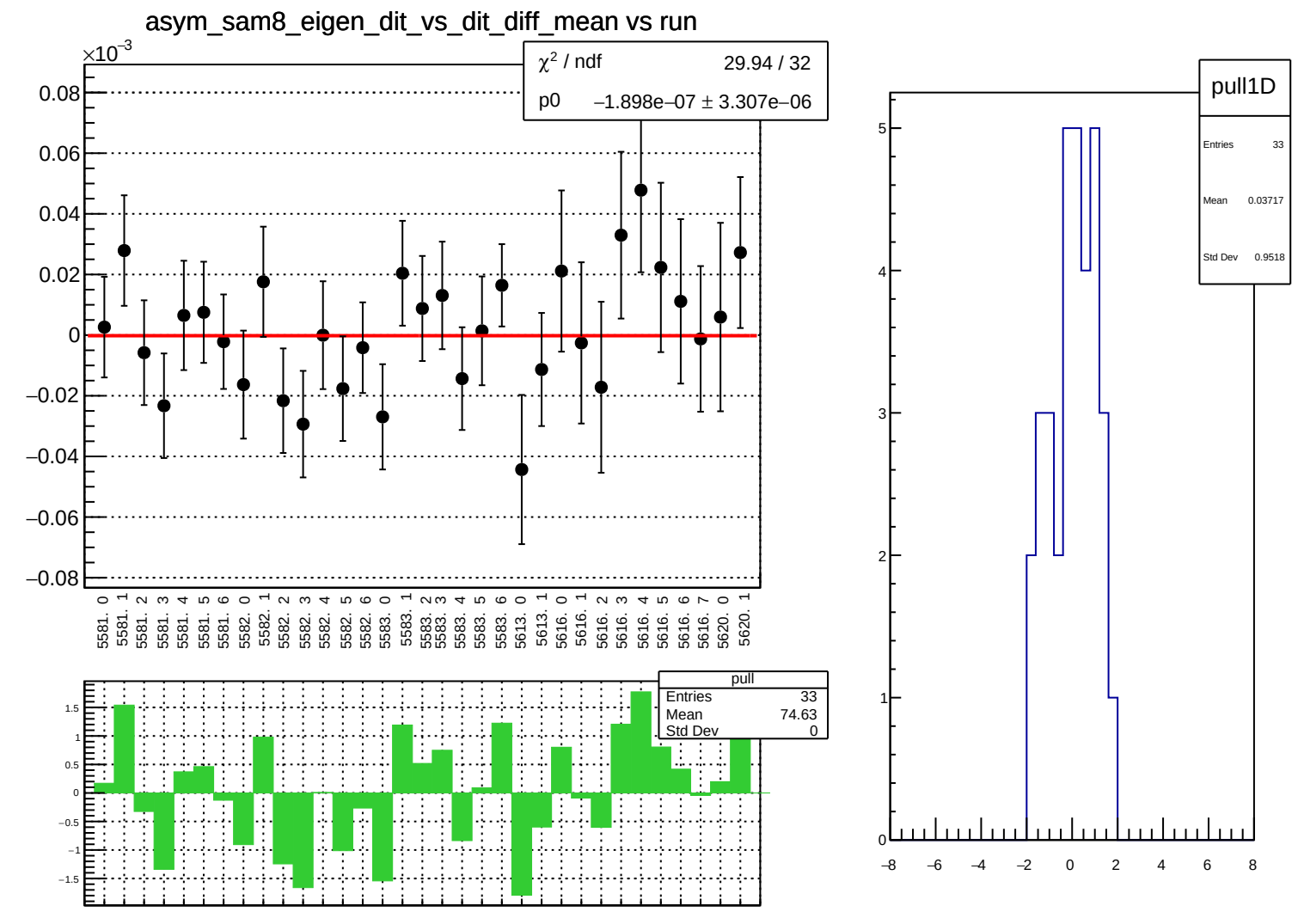

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 32.61 / 32
p0 0.01682 ± 0.07412
6
4
2
0
−2
−4
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 228.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.003594
Std Dev 0.994
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

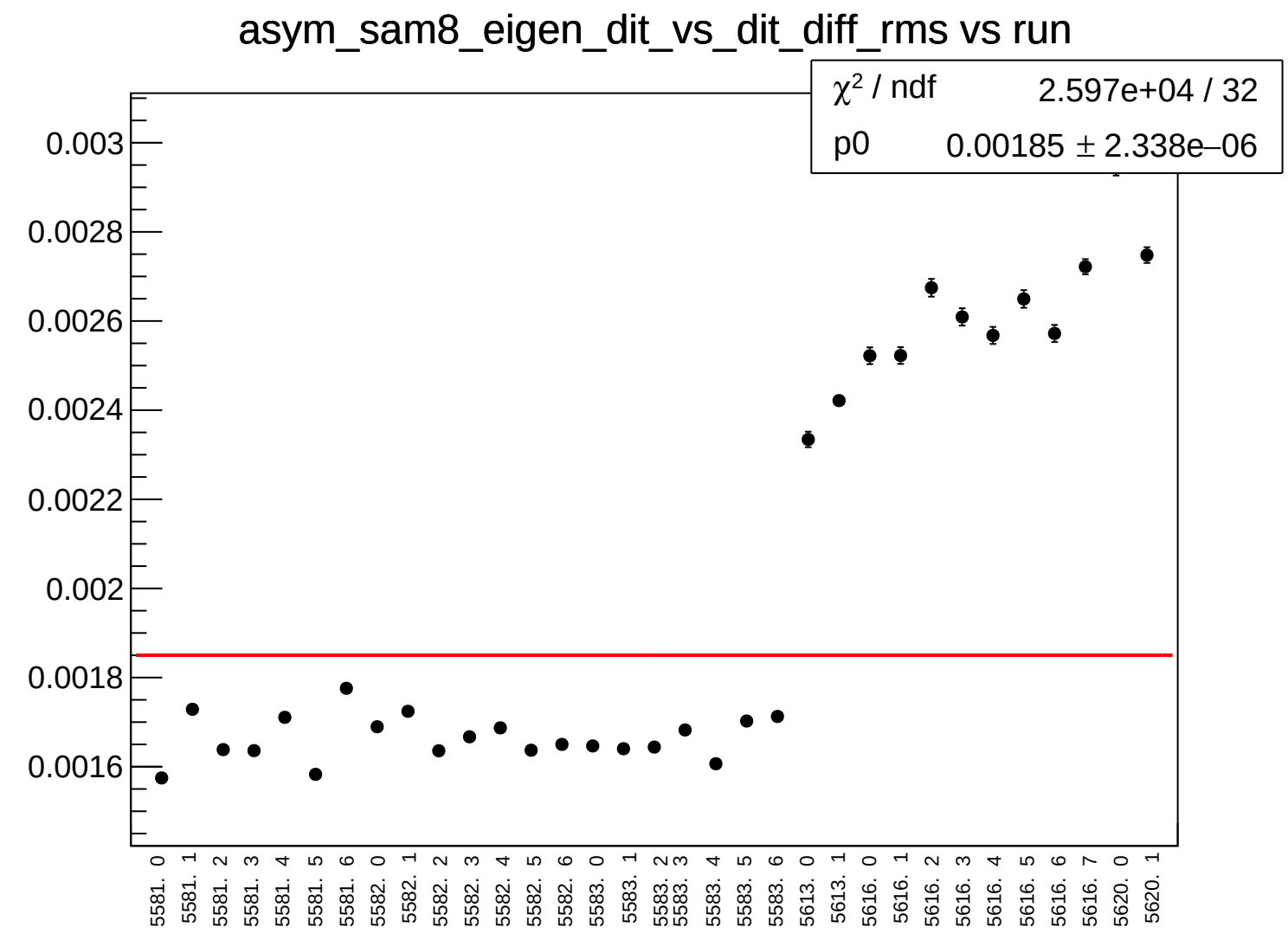

asym_sam8_dit_vs_cor_diff_rms vs run
χ2 / ndf 1.418e+05 / 32
p0 37.44 ± 0.05241
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

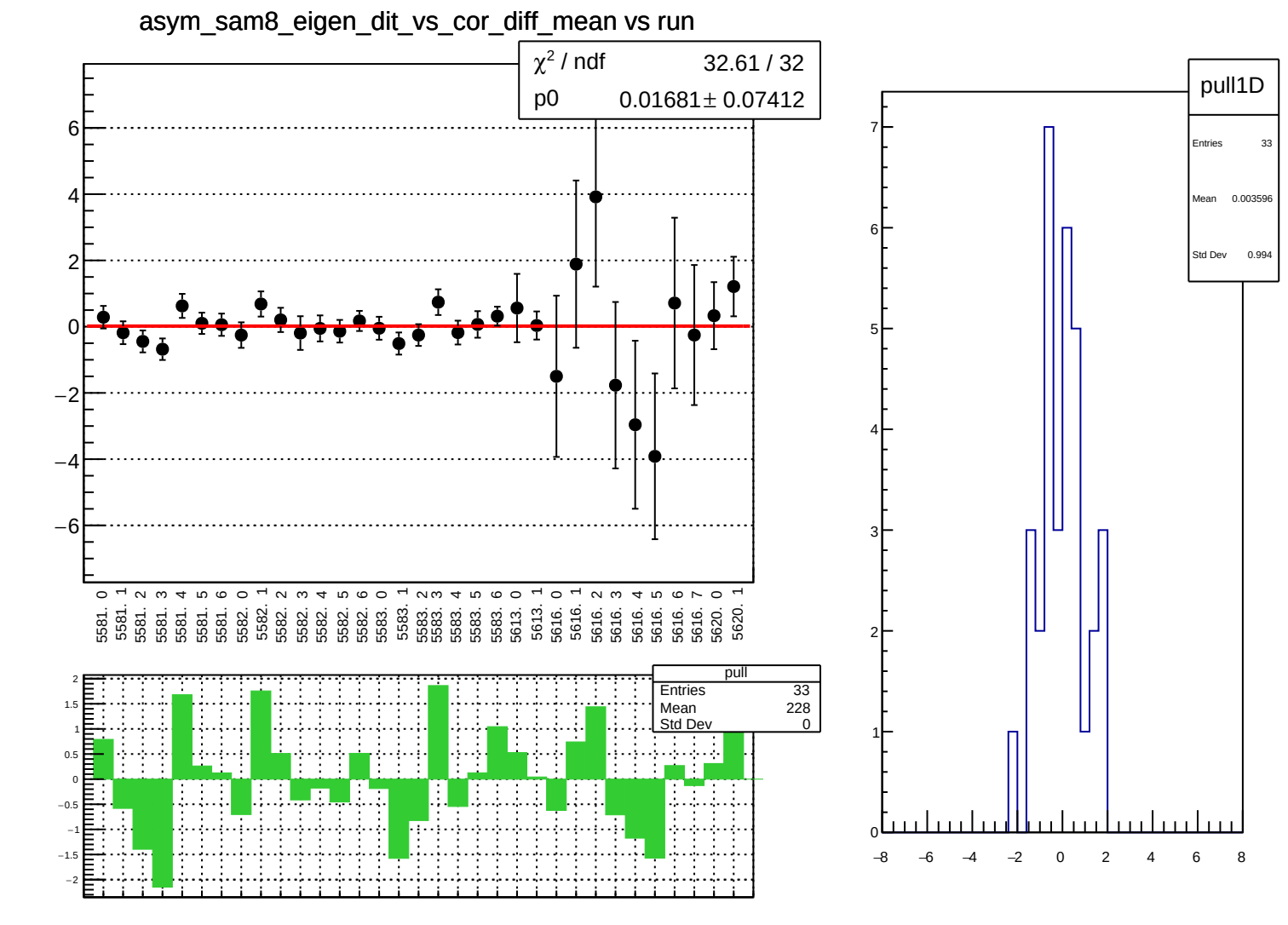

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.61 / 32
p0 0.01682 ± 0.07412
6
4
2
0
−2
−4
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 228.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

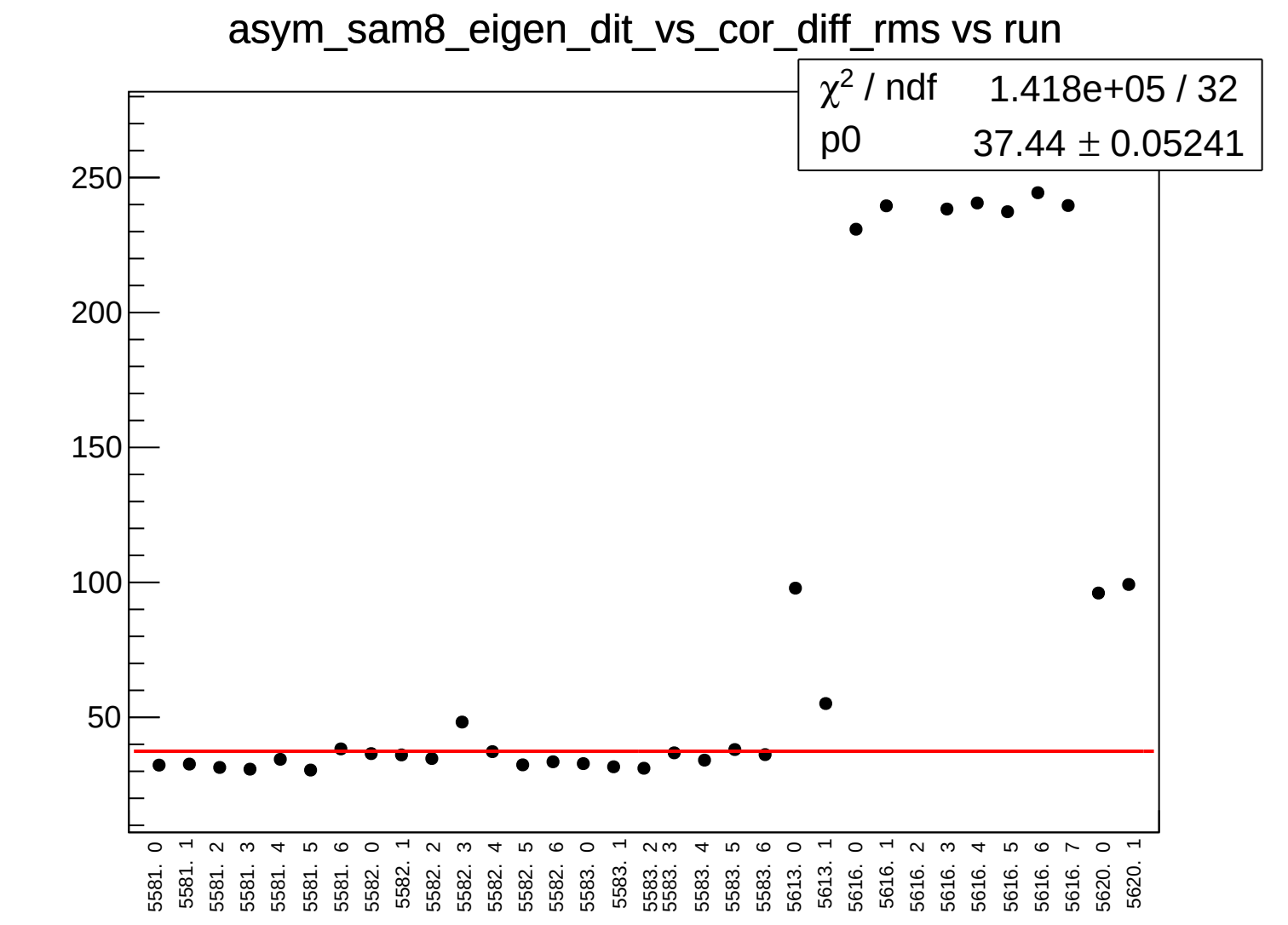

pull1D
Entries 33
Mean 0.003594
Std Dev 0.994
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

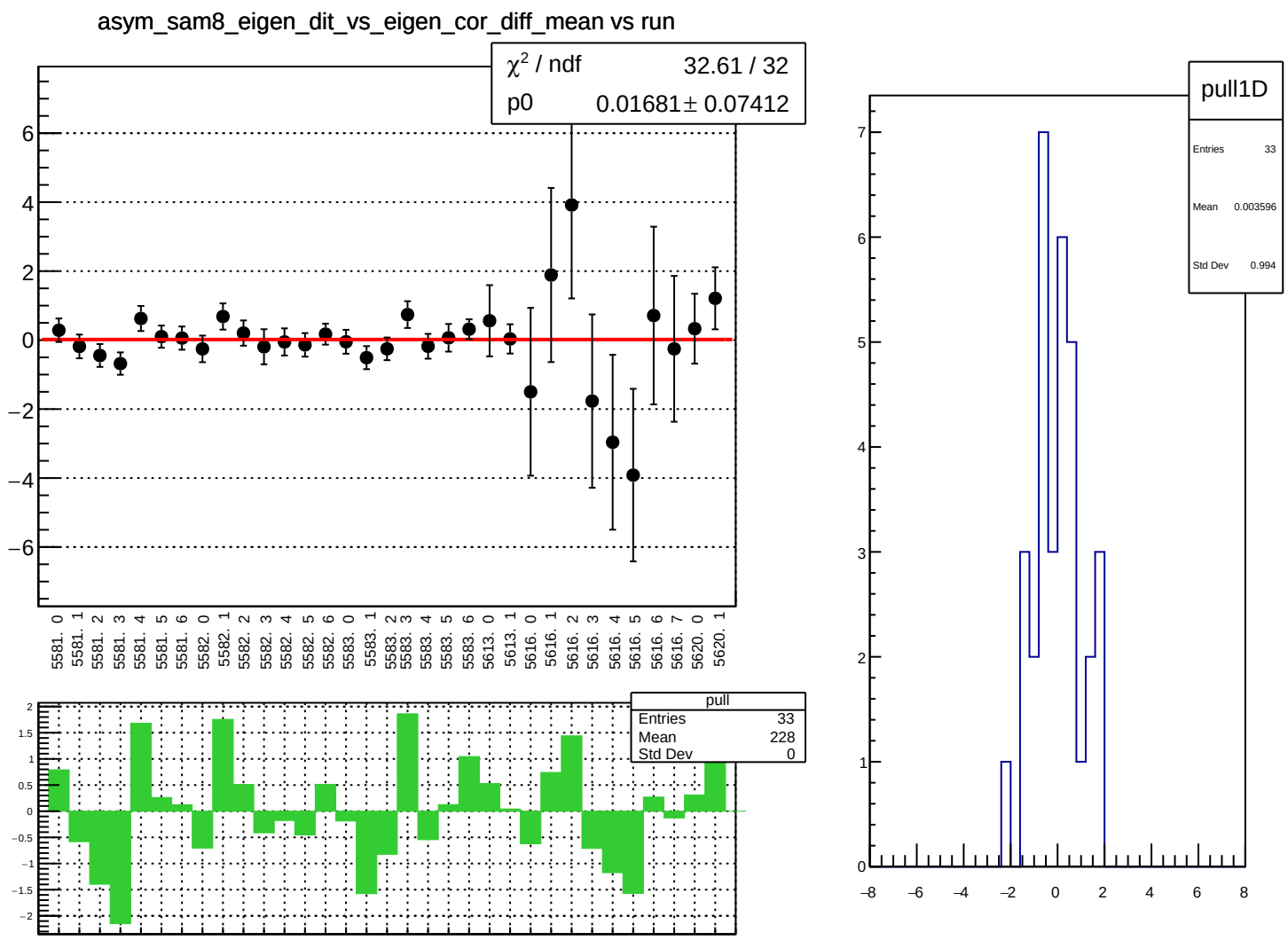

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.418e+05 / 32
p0 37.44 ± 0.05241
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

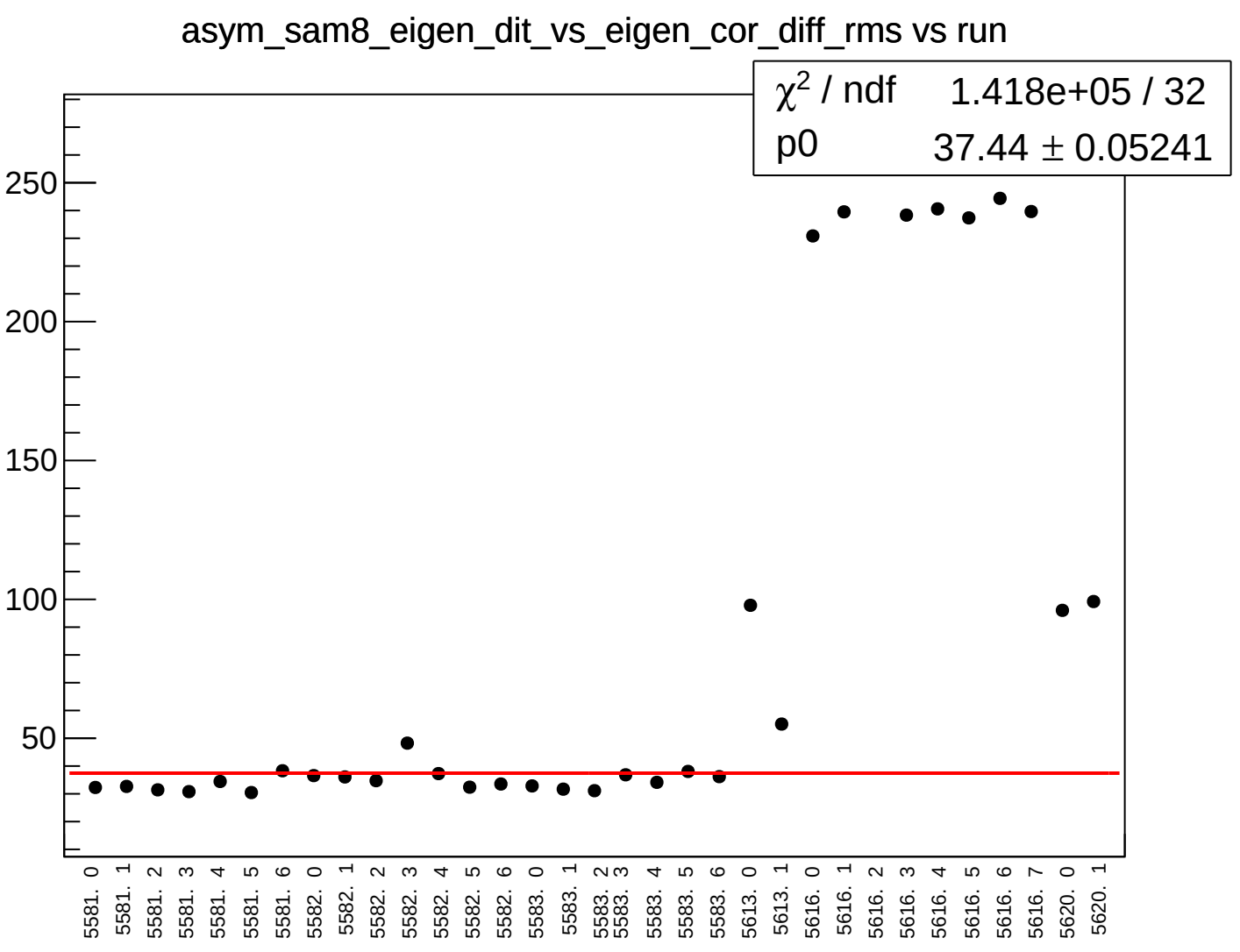

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 29.94 / 32
p0 −1.898e−07 ± 3.307e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 74.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.03717
Std Dev 0.9518
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

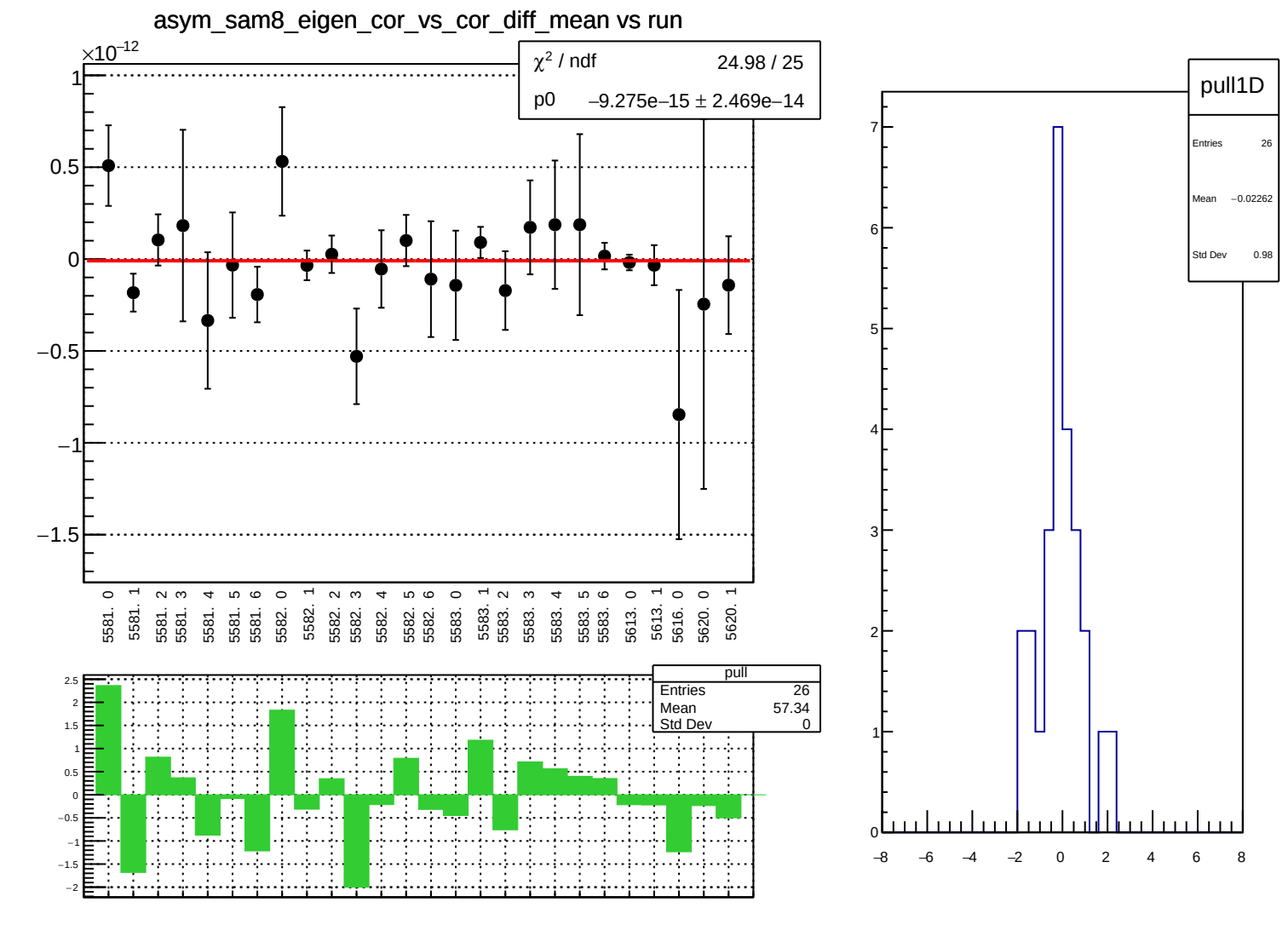

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.597e+04 / 32
p0 0.00185 ± 2.338e–06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

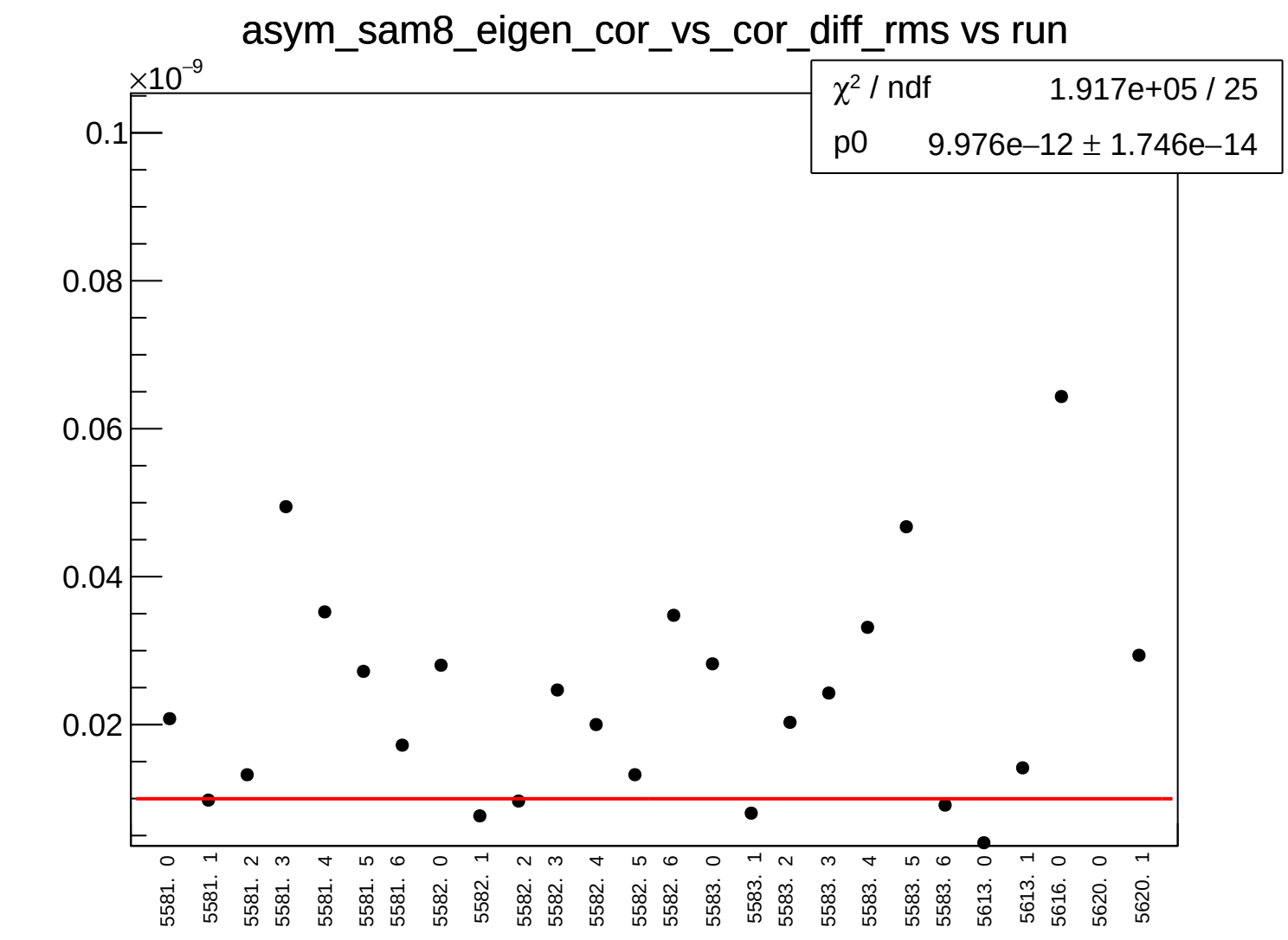

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.61 / 32
p0 0.01681 ± 0.07412
6
4
2
0
−2
−4
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 228
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.003596
Std Dev 0.994
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

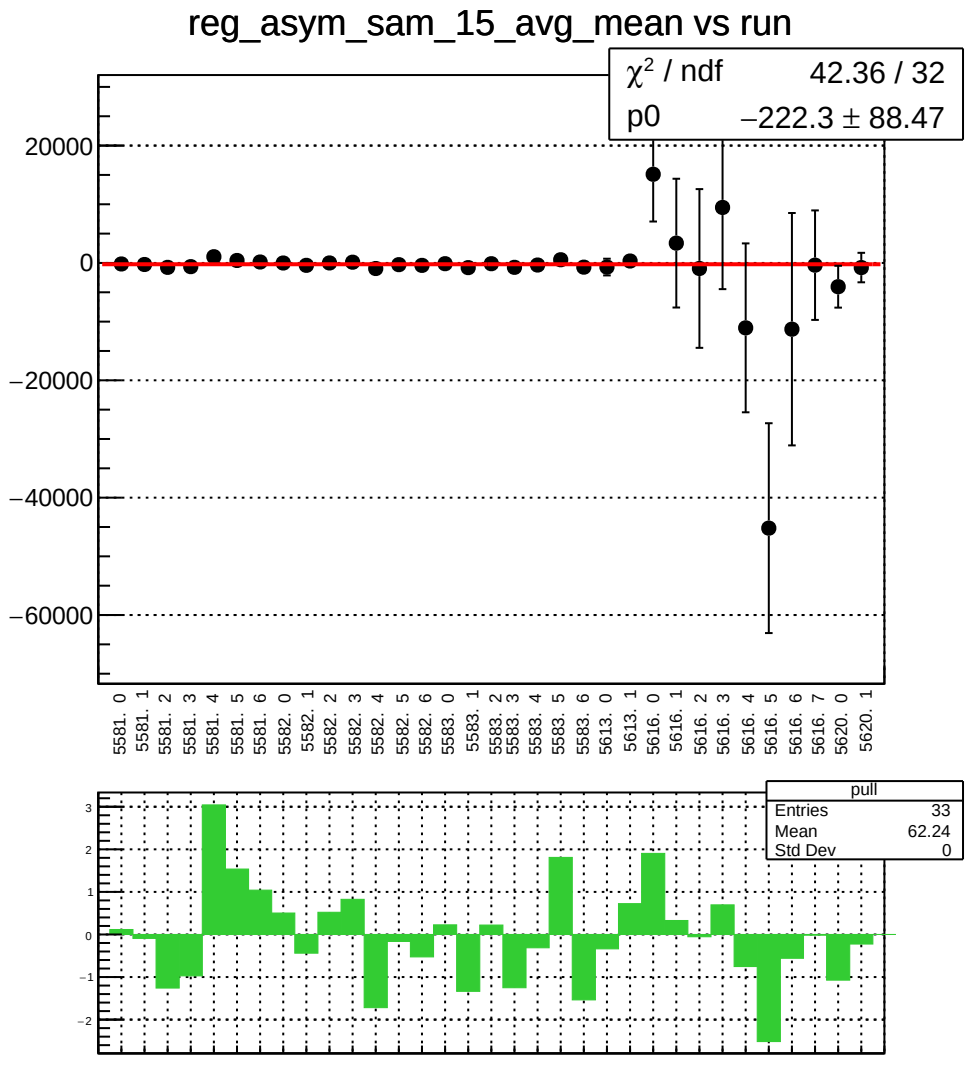

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.418e+05 / 32
p0 37.44 ± 0.05241
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

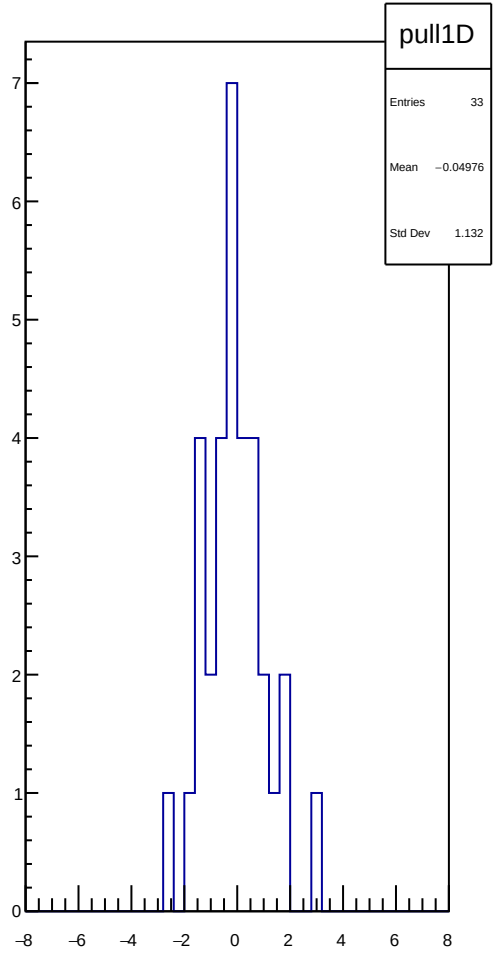

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.61 / 32
p0 0.01681 ± 0.07412
6
4
2
0
−2
−4
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 228
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.003596
Std Dev 0.994
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

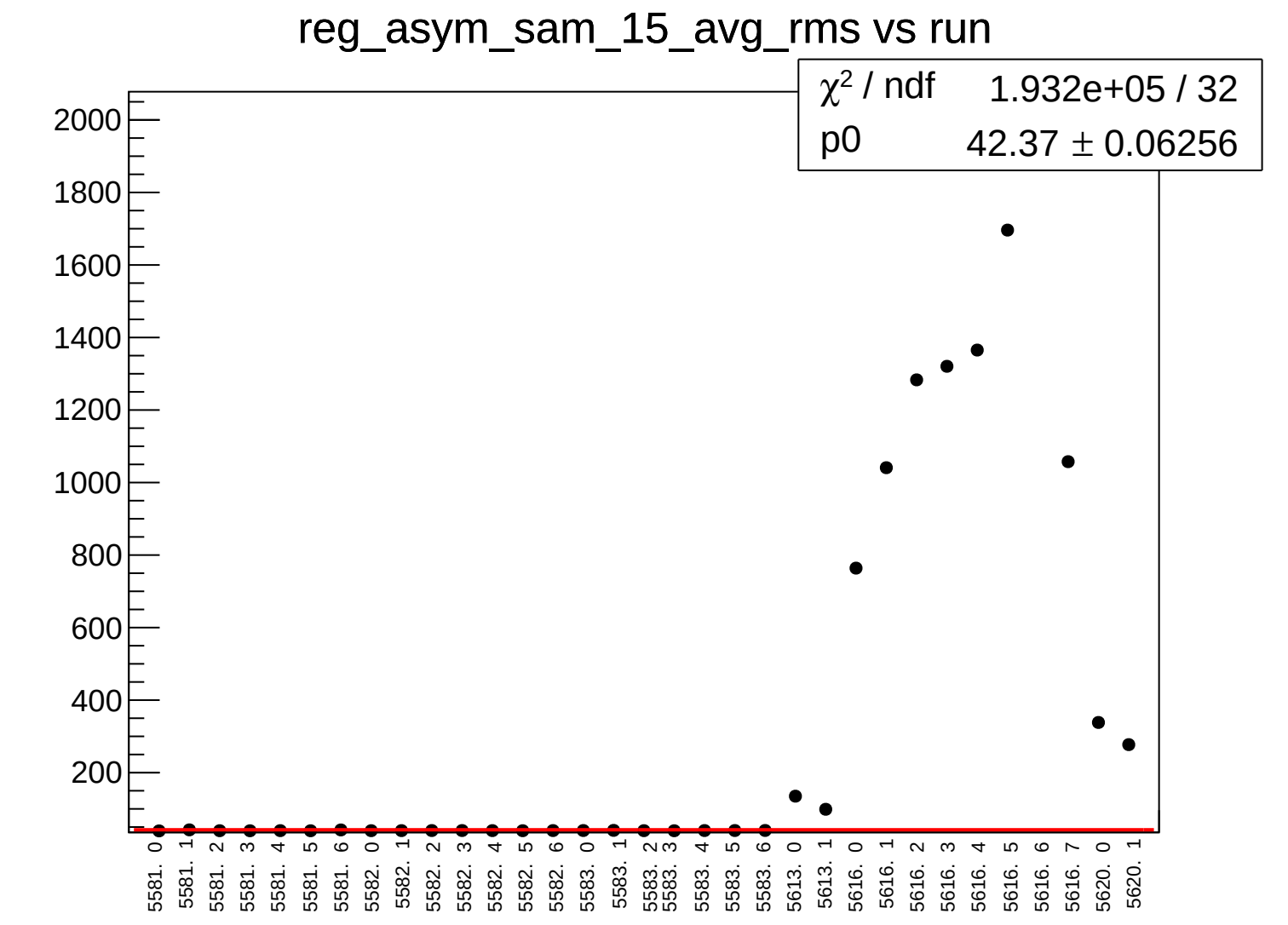

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.418e+05 / 32
p0 37.44 ± 0.05241
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

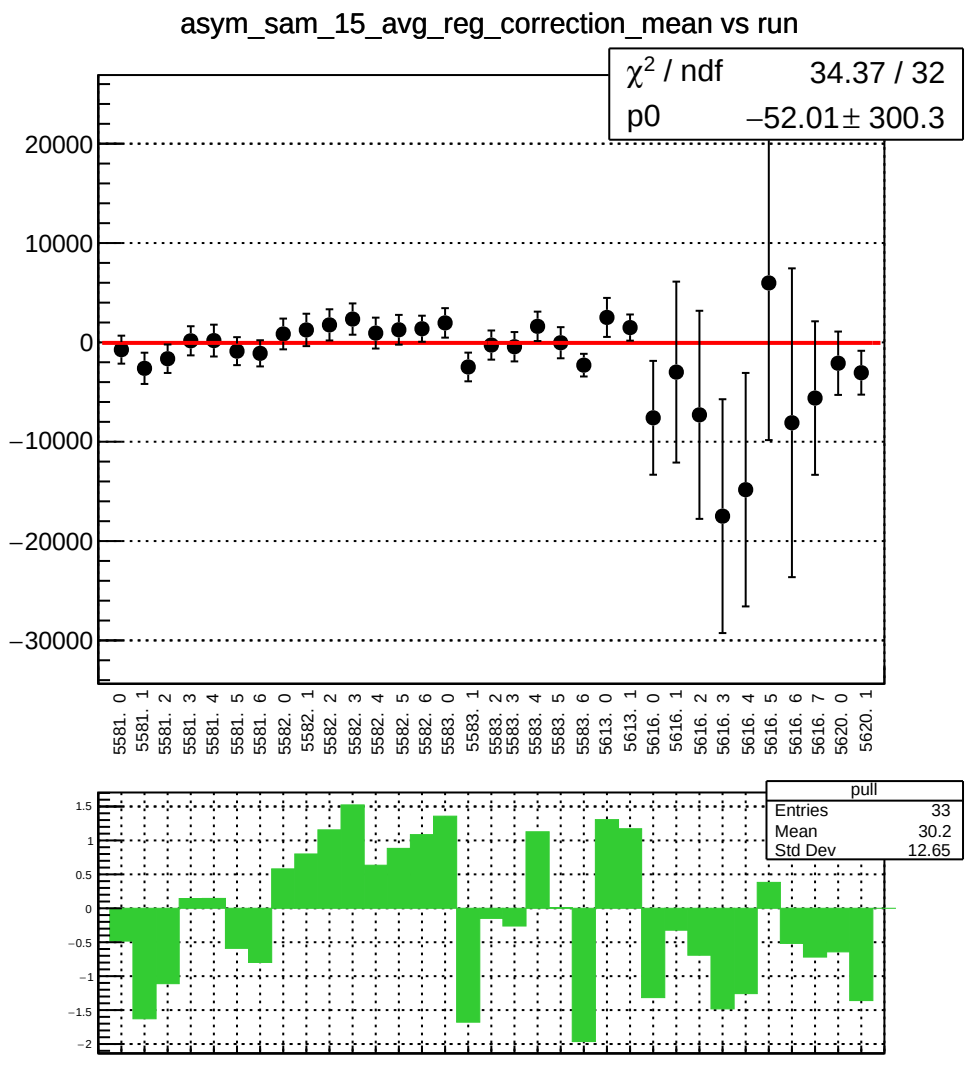

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.98 / 25
p0 −9.275e−15 ± 2.469e−14
1
0.5
0
−0.5
−1
−1.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 57.34
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.02262
Std Dev 0.98
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

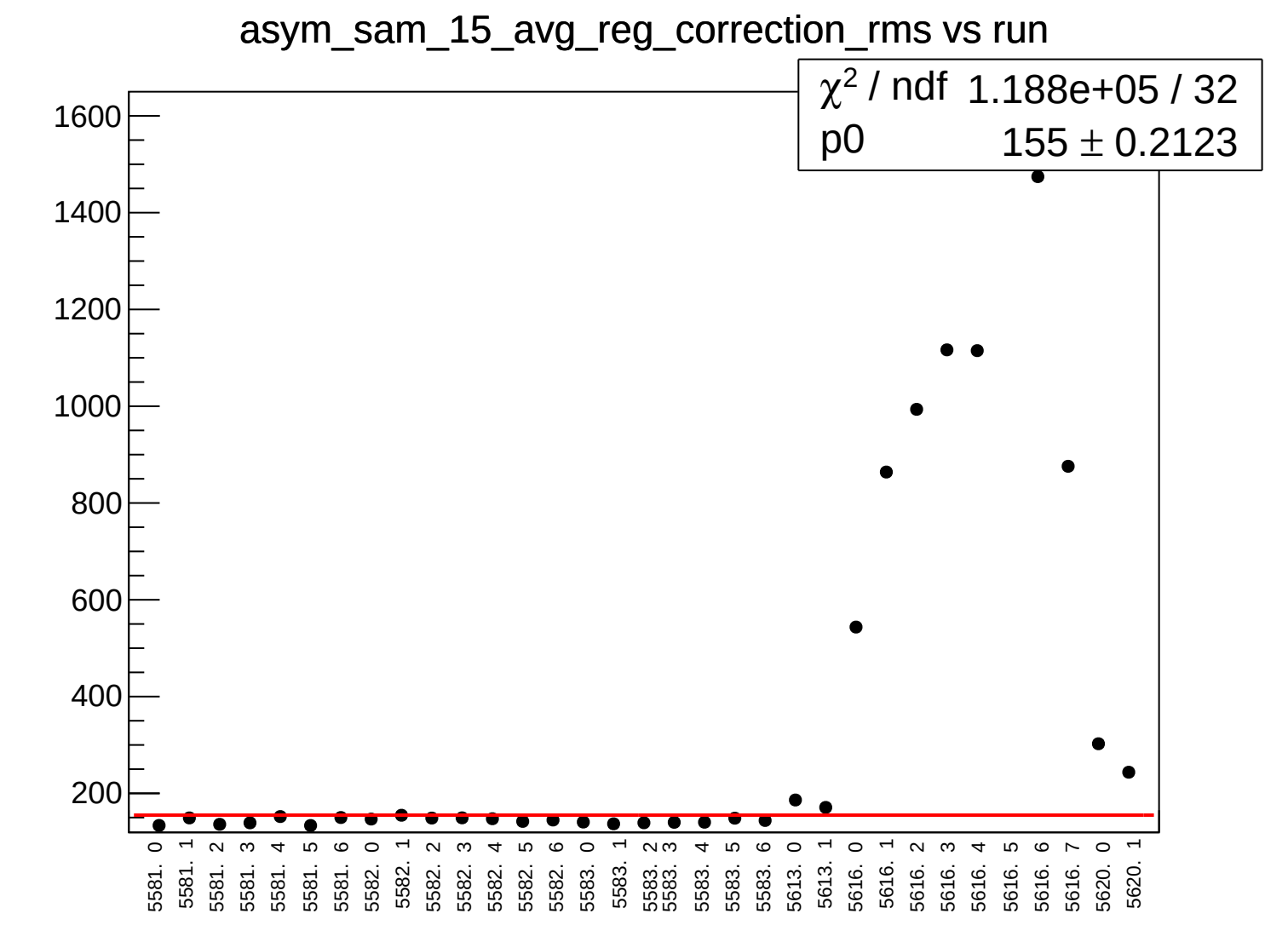

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.917e+05 / 25
p0 9.976e−12 ± 1.746e−14
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

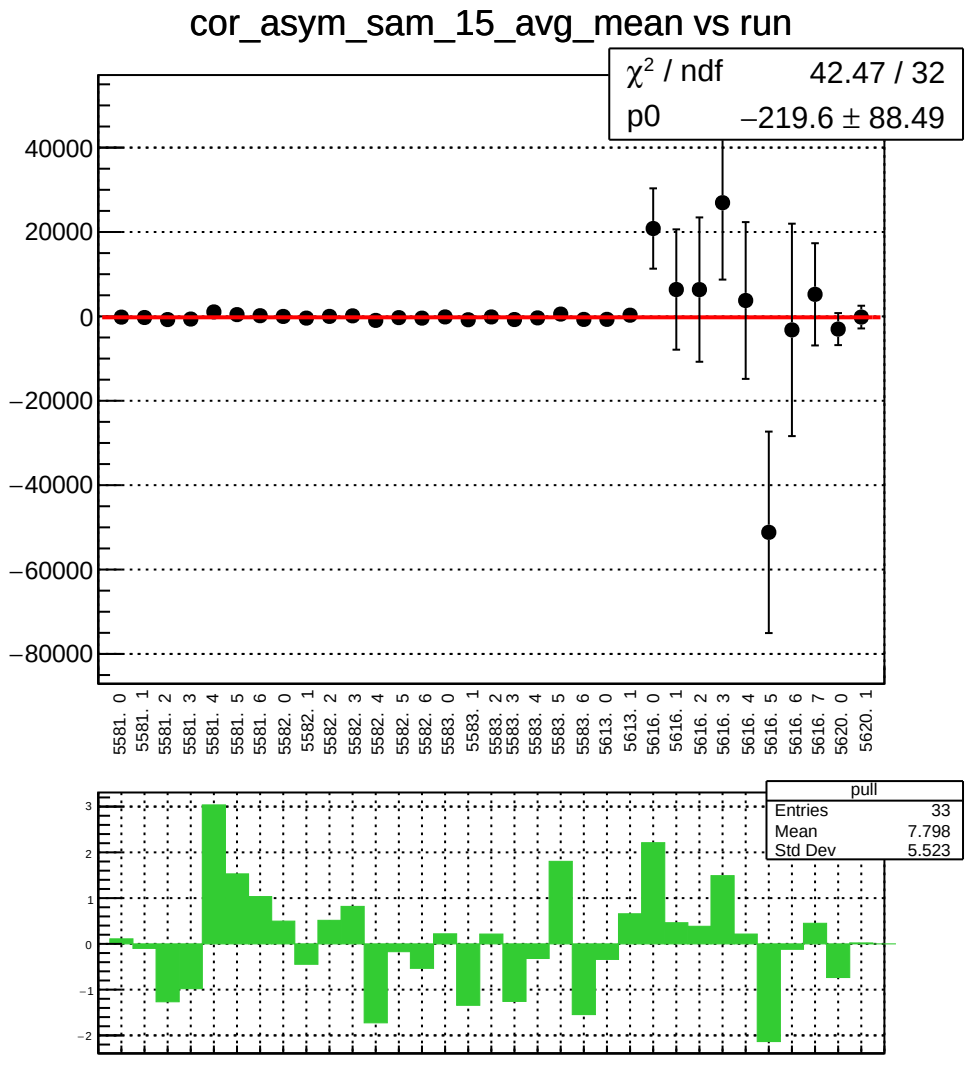

reg_asym_sam_15_avg_mean vs run
χ² / ndf 42.36 / 32
p0 −222.3 ± 88.47
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 62.24
Std Dev 0
3
2
1
0
−1
−2

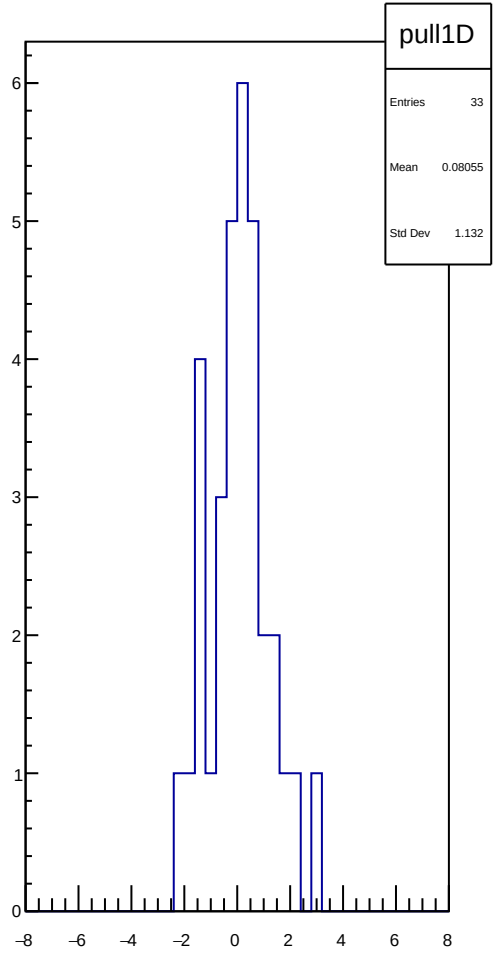

pull1D
Entries 33
Mean −0.04976
Std Dev 1.132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

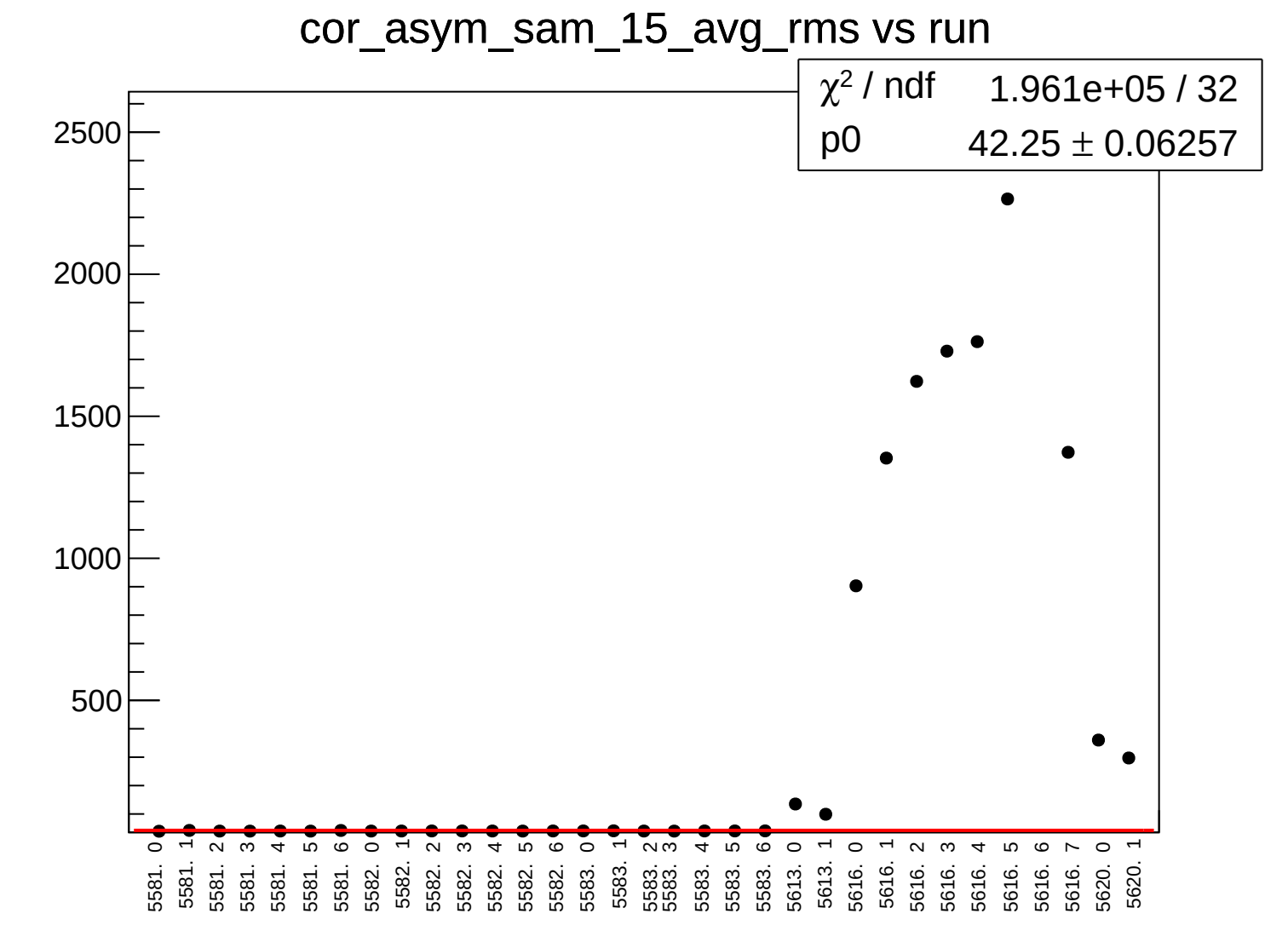

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1.932e+05 / 32
p0 42.37 ± 0.06256
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

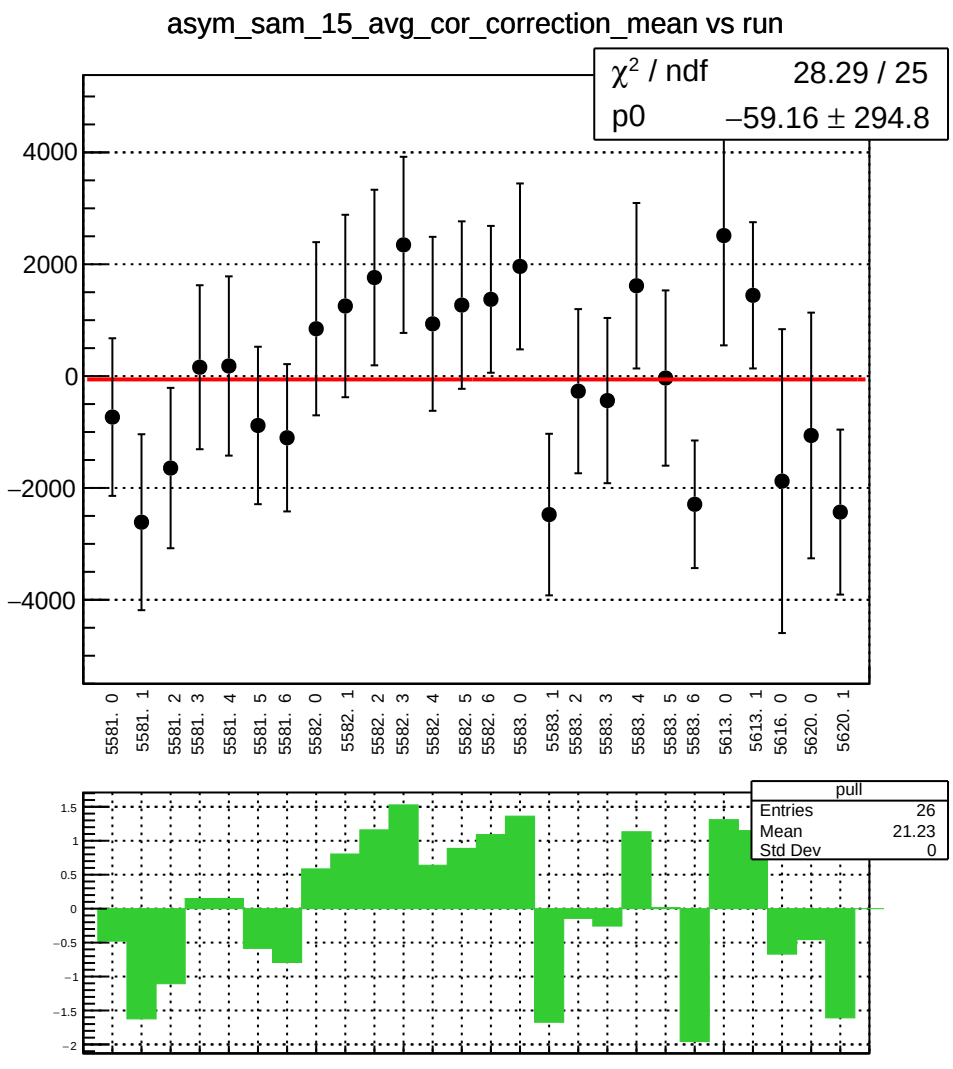

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 34.37 / 32
p0 −52.01± 300.3
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 30.2
Std Dev 12.65
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1412
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

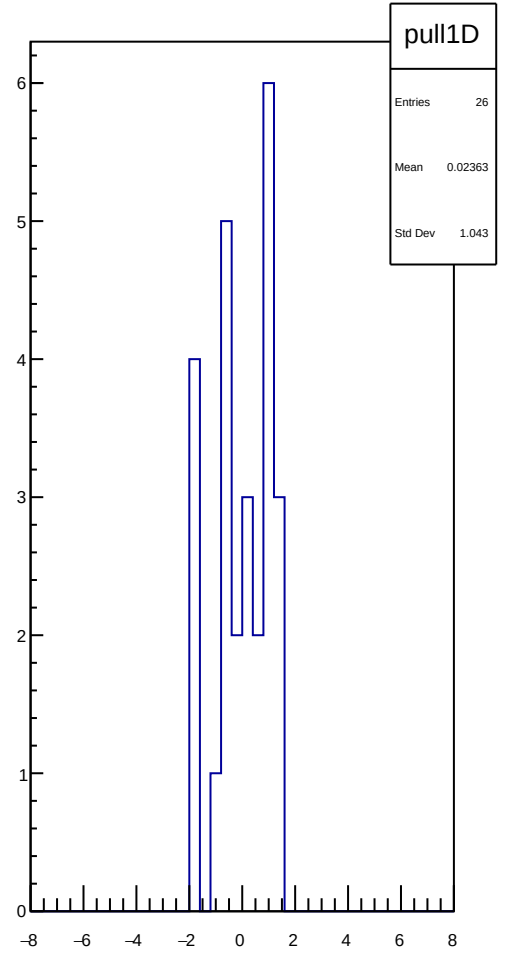

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.188e+05 / 32
p0 155 ± 0.2123
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

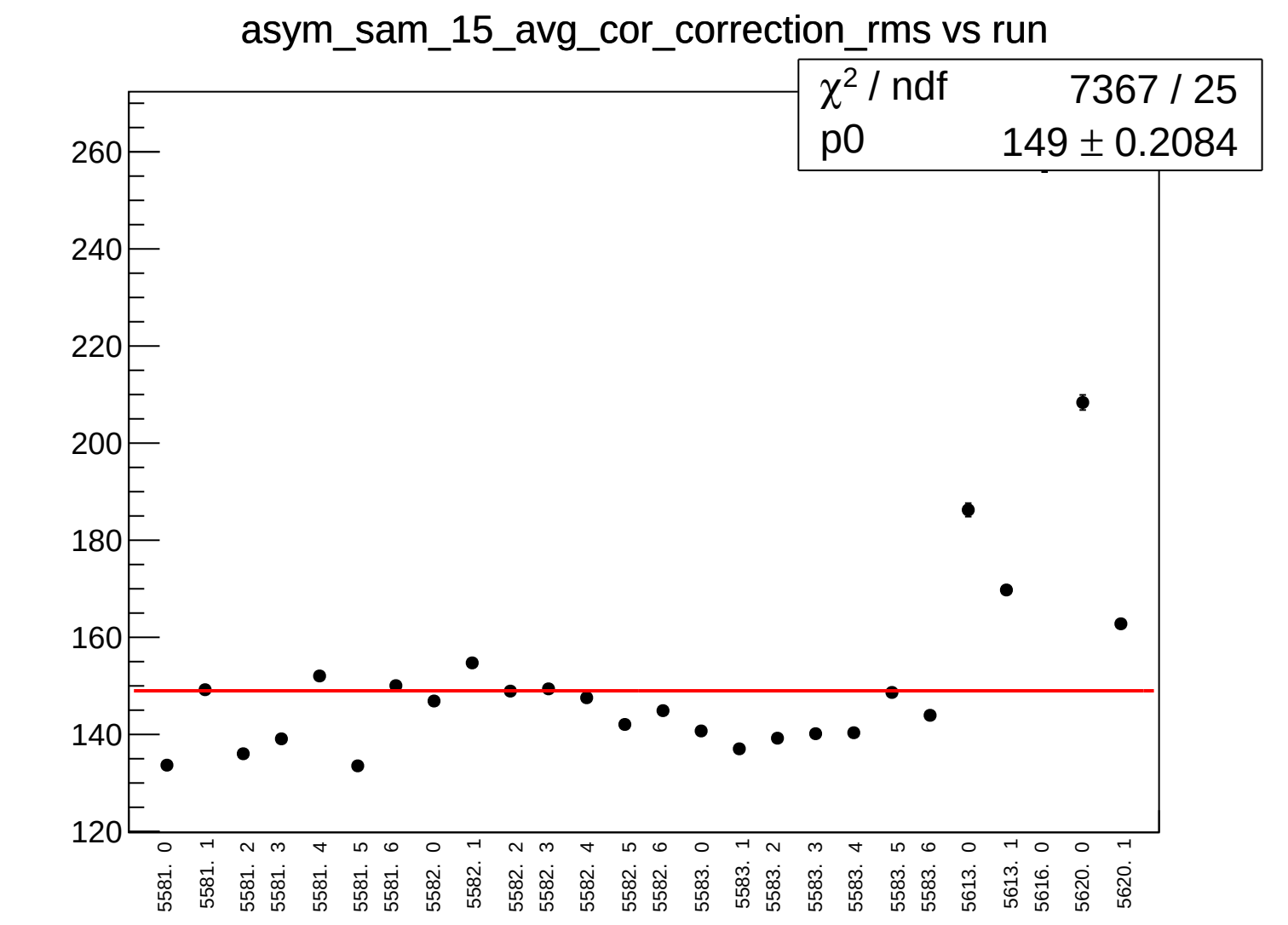

cor_asym_sam_15_avg_mean vs run
χ² / ndf 42.47 / 32
p0 −219.6 ± 88.49
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 7.798
Std Dev 5.523
3
2
1
0
−1
−2

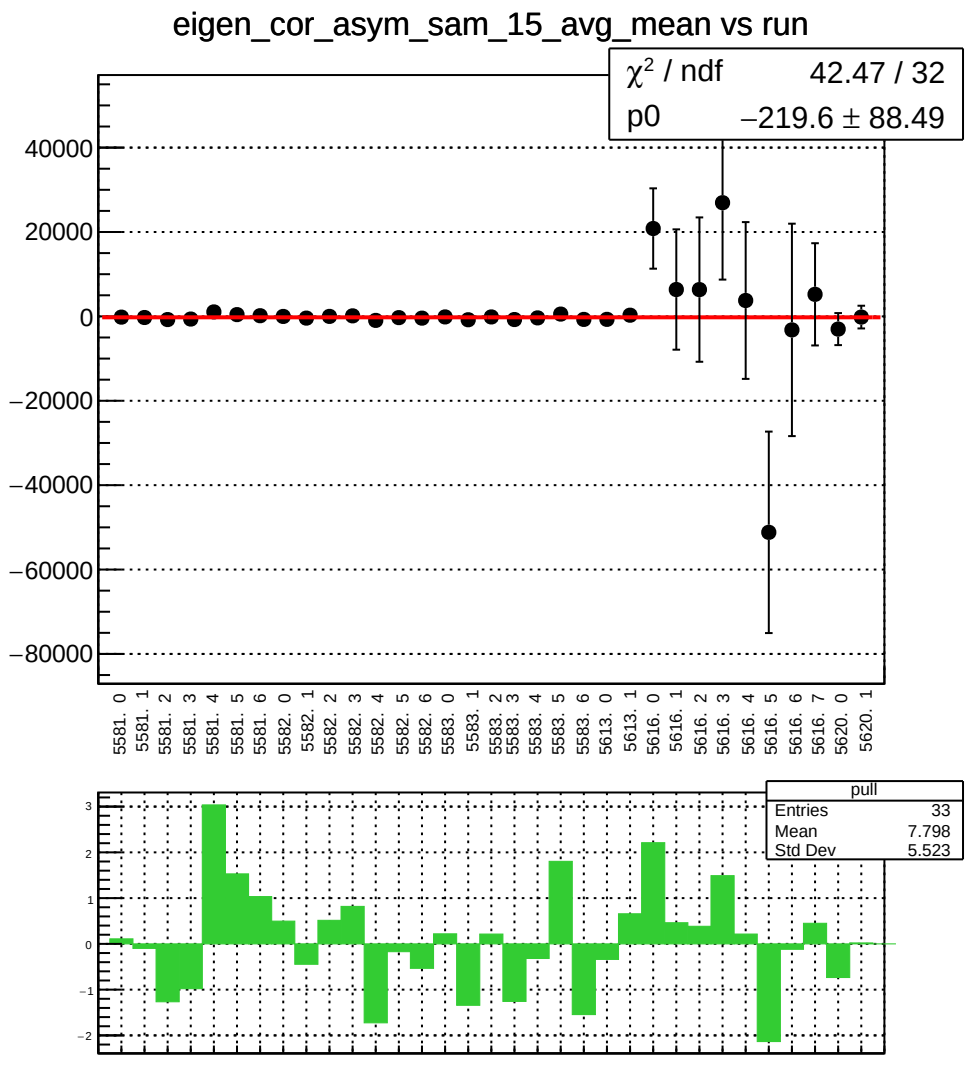

pull1D
Entries 33
Mean 0.08055
Std Dev 1.132
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

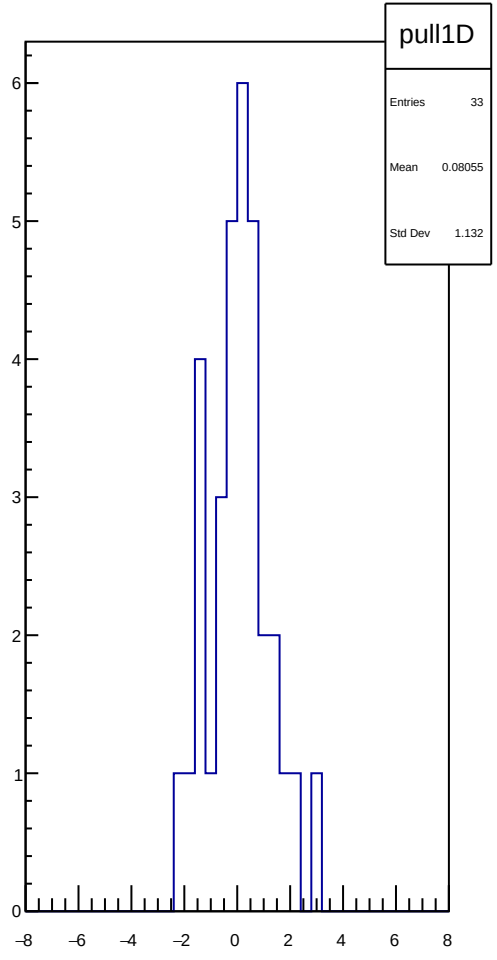

cor_asym_sam_15_avg_rms vs run
χ² / ndf 1.961e+05 / 32
p0 42.25 ± 0.06257
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

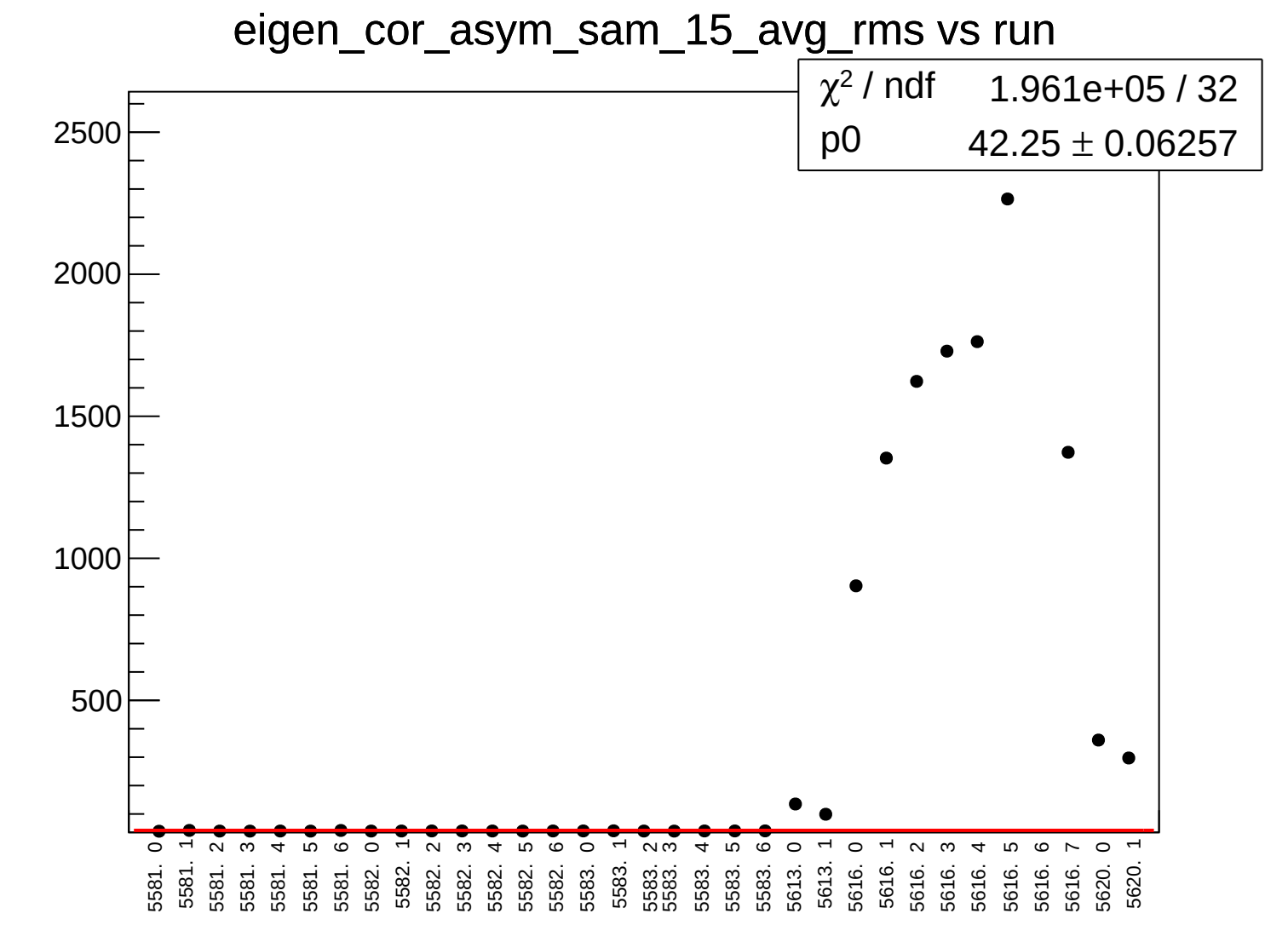

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 28.29 / 25
p0 −59.16 ± 294.8
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 21.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

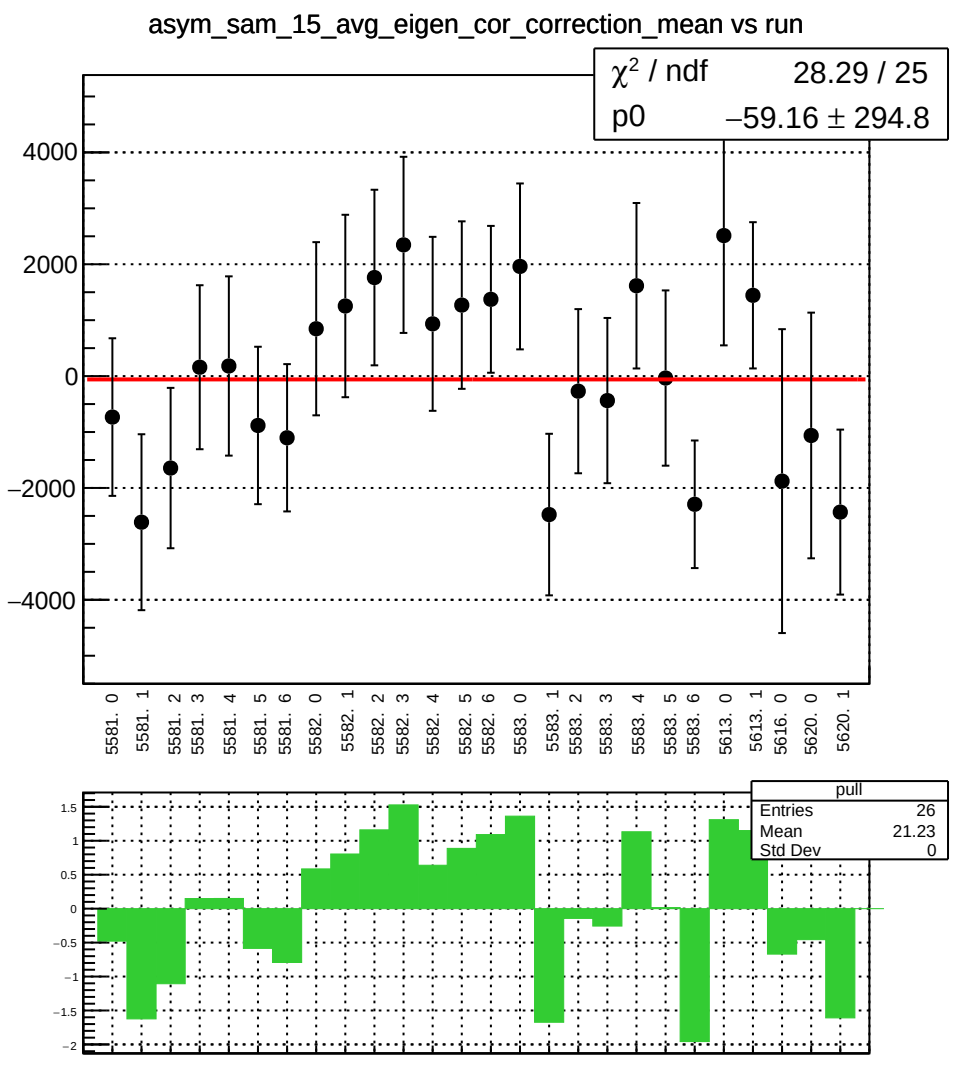

pull1D
Entries 26
Mean 0.02363
Std Dev 1.043
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

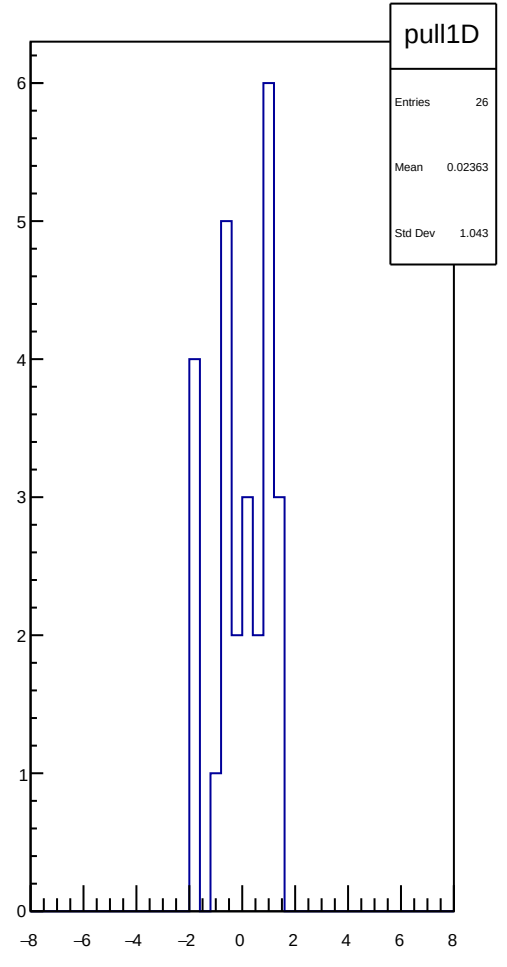

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 7367 / 25
p0 149 ± 0.2084
260
240
220
200
180
160
140
120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

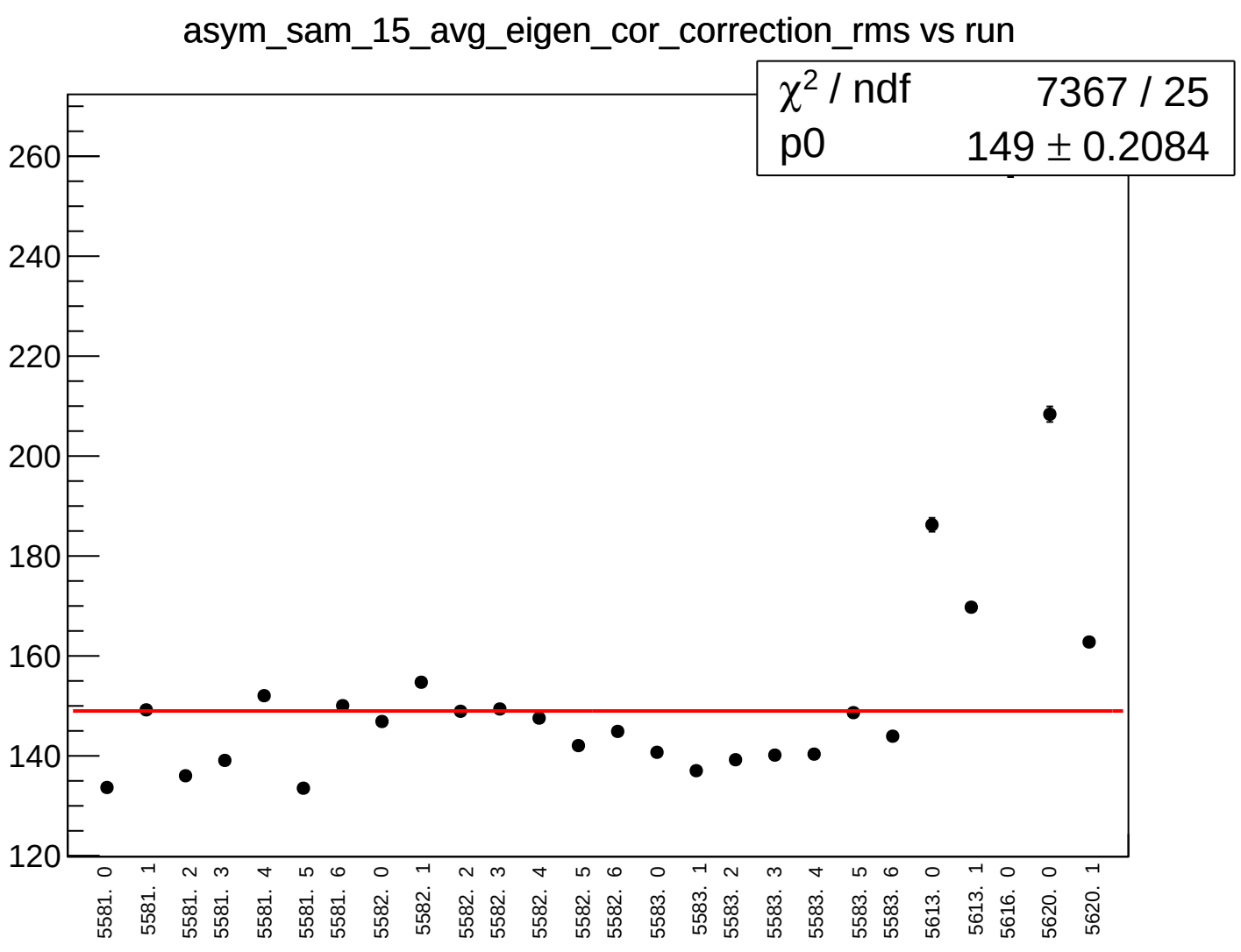

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 42.47 / 32
p0 −219.6 ± 88.49
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 7.798
Std Dev 5.523
3
2
1
0
−1
−2

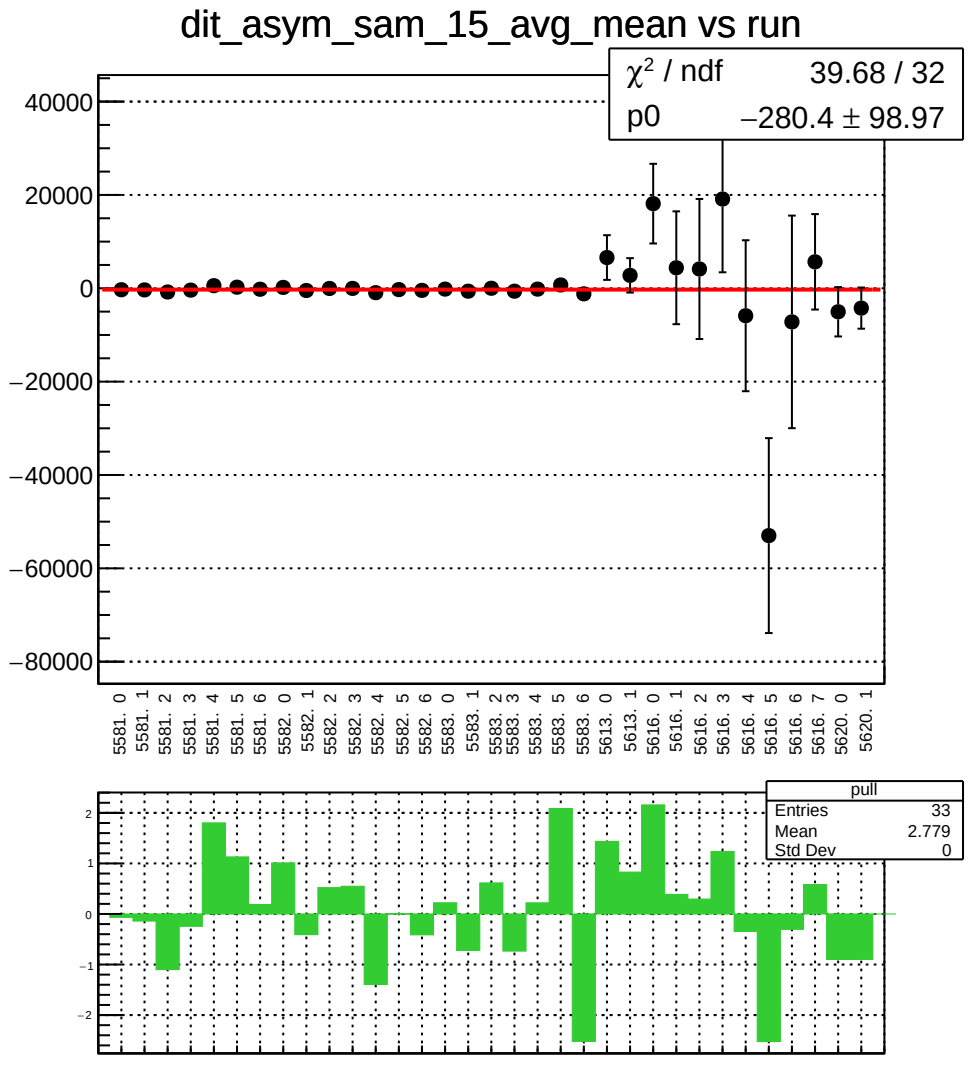

pull1D
Entries 33
Mean 0.08055
Std Dev 1.132
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

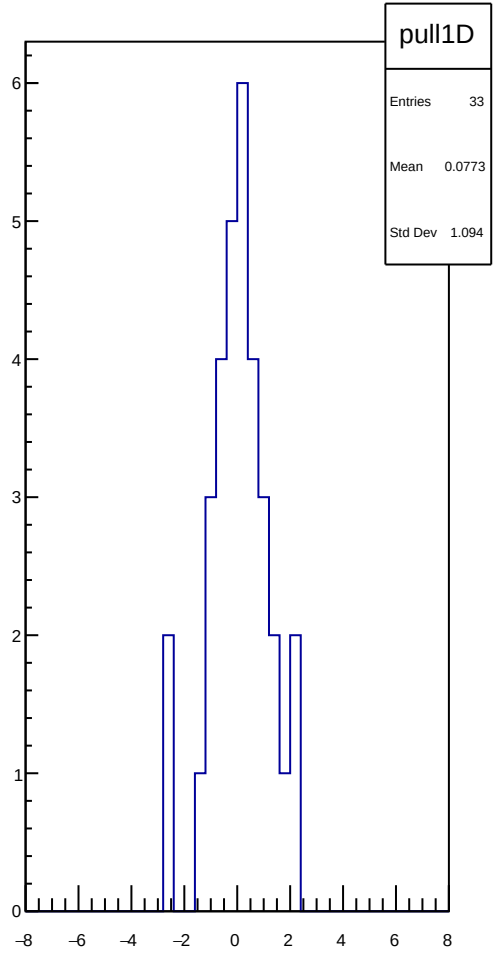

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1.961e+05 / 32
p0 42.25 ± 0.06257
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

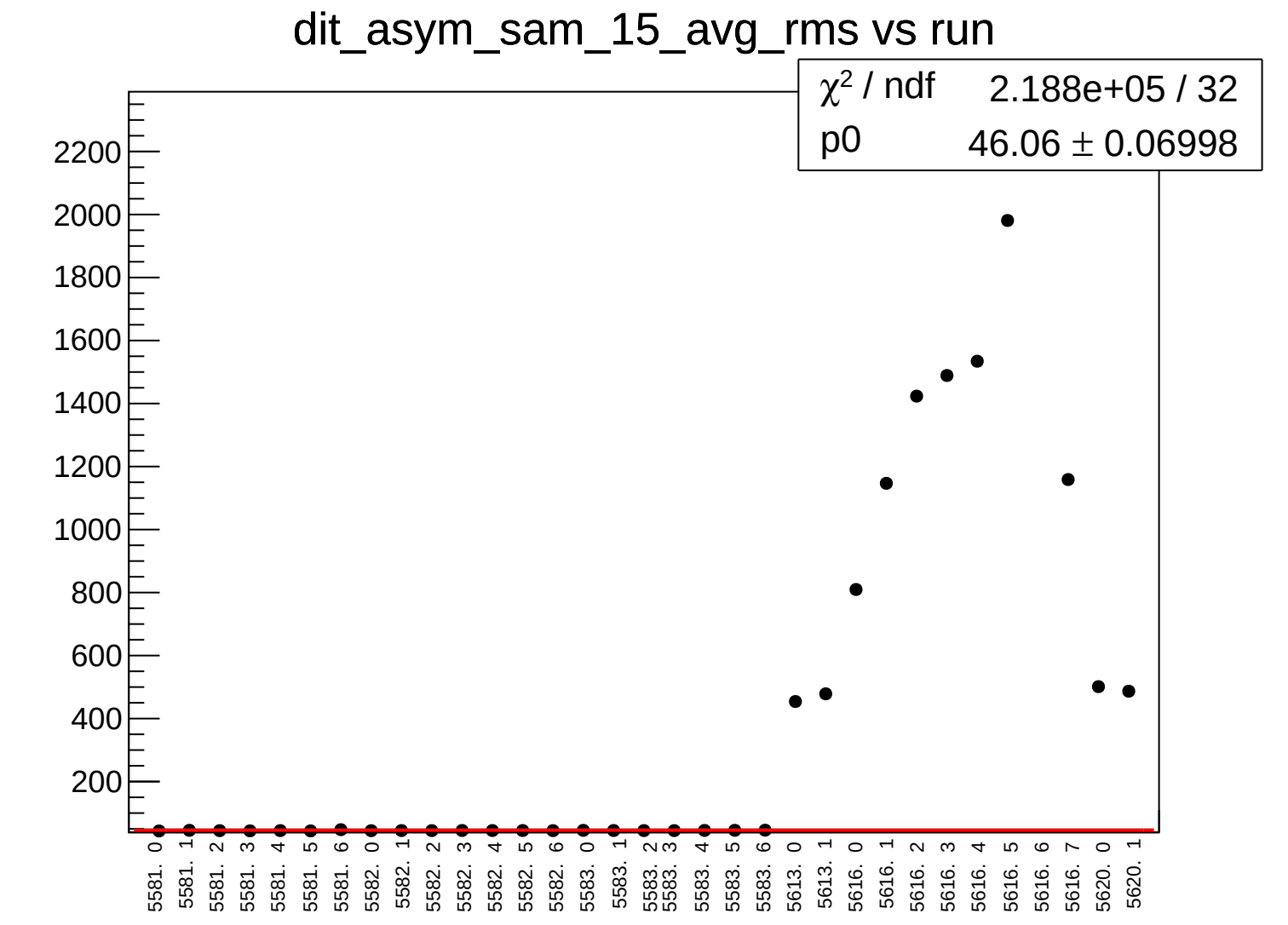

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 28.29 / 25
p0 −59.16 ± 294.8
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 21.23
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

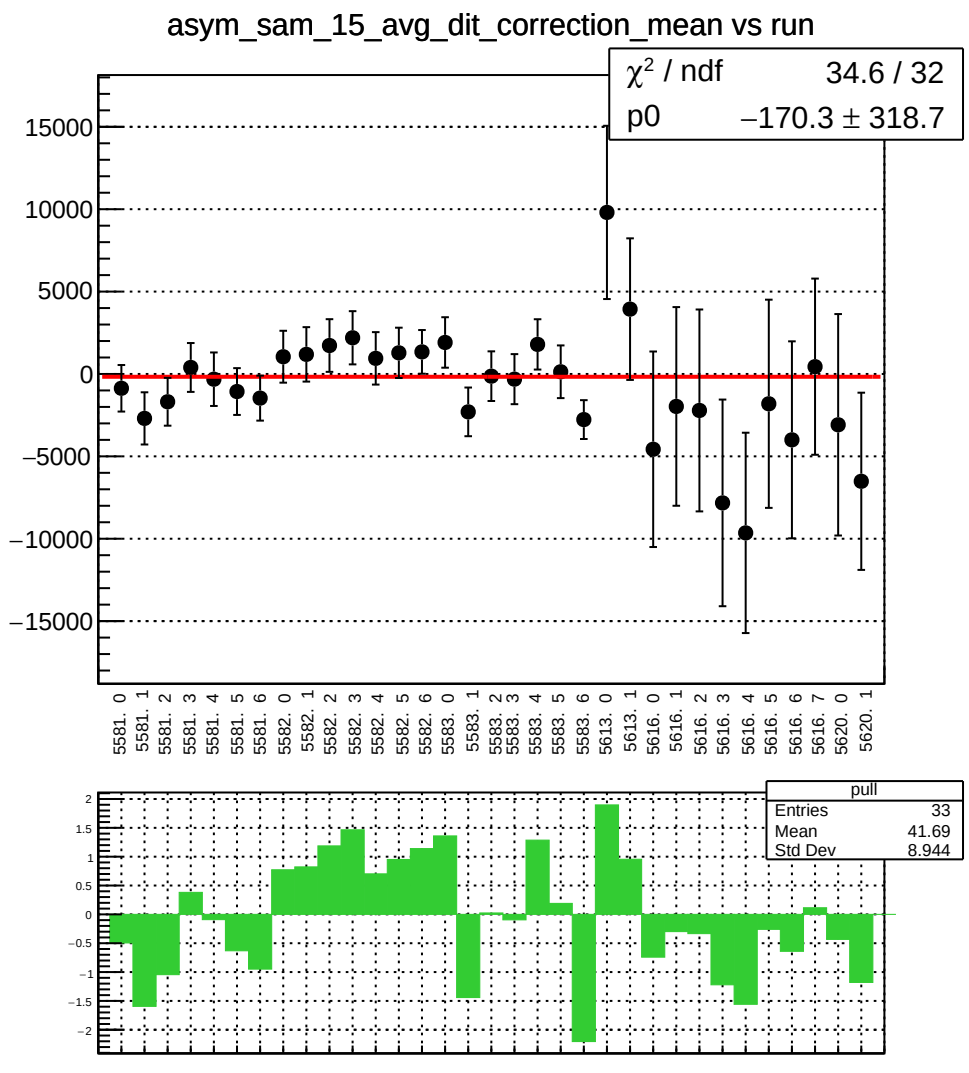

pull1D
Entries 26
Mean 0.02363
Std Dev 1.043
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

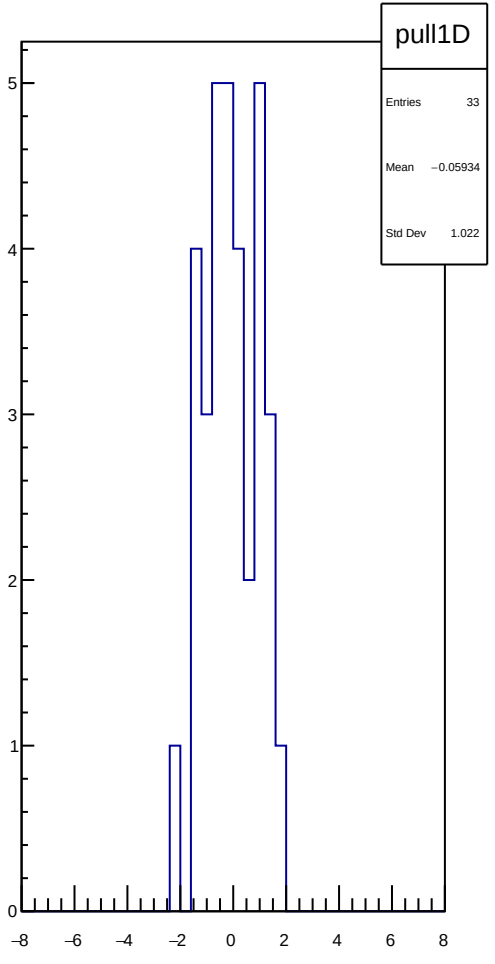

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 7367 / 25
p0 149 ± 0.2084
260
240
220
200
180
160
140
120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

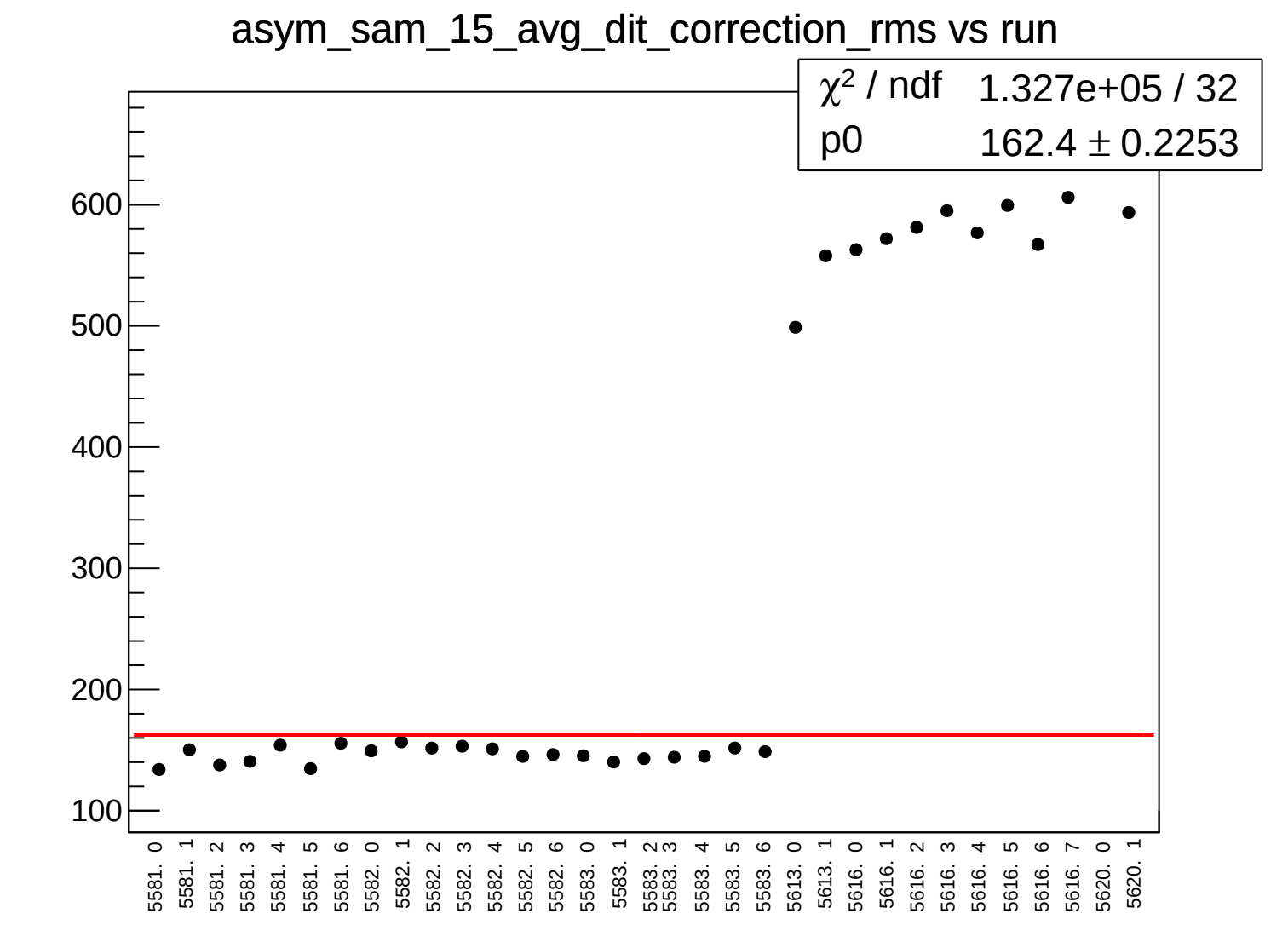

dit_asym_sam_15_avg_mean vs run
χ² / ndf 39.68 / 32
p0 −280.4 ± 98.97
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2.779
Std Dev 0
2
1
0
−1
−2

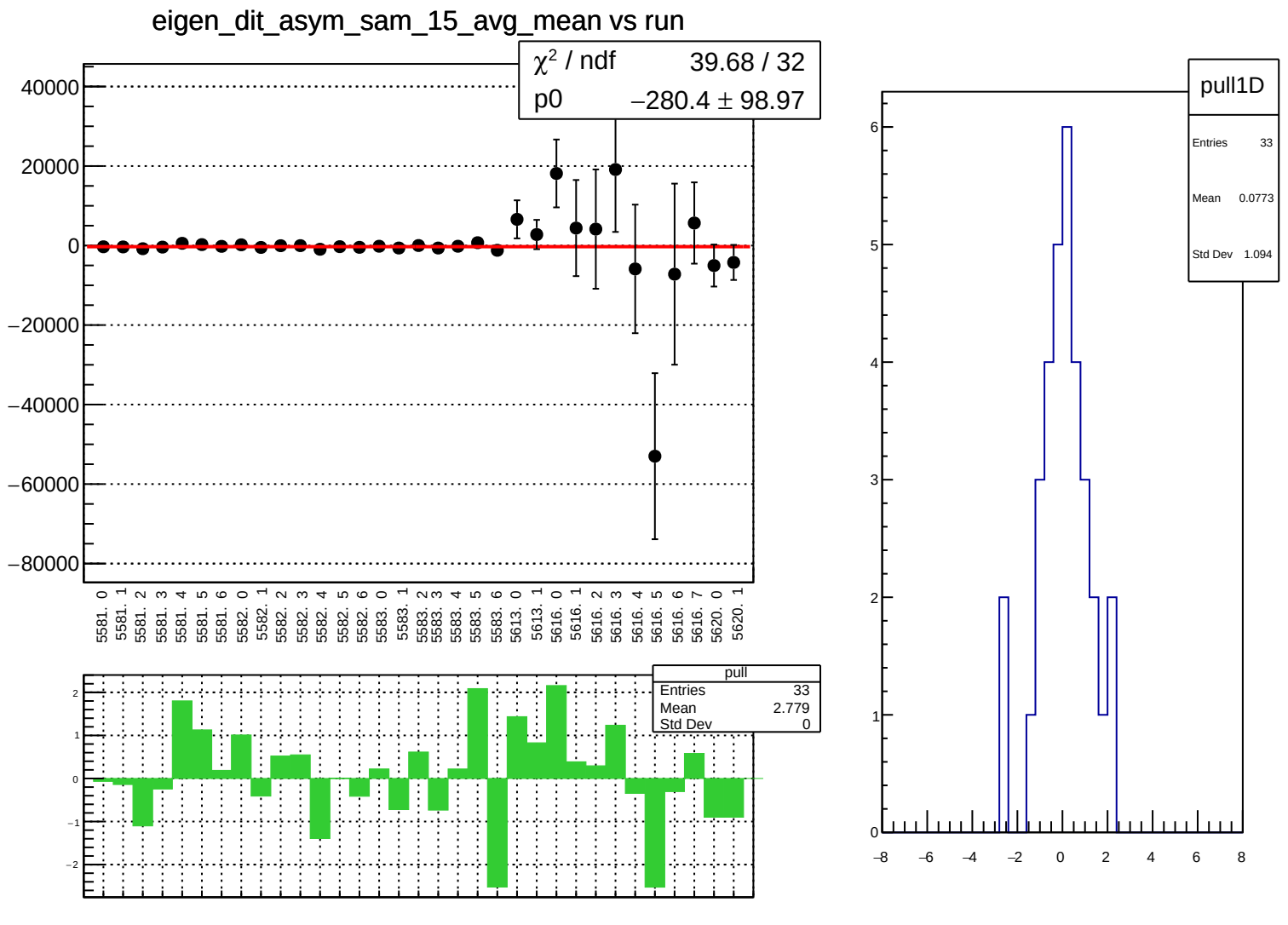

pull1D
Entries 33
Mean 0.0773
Std Dev 1.094
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

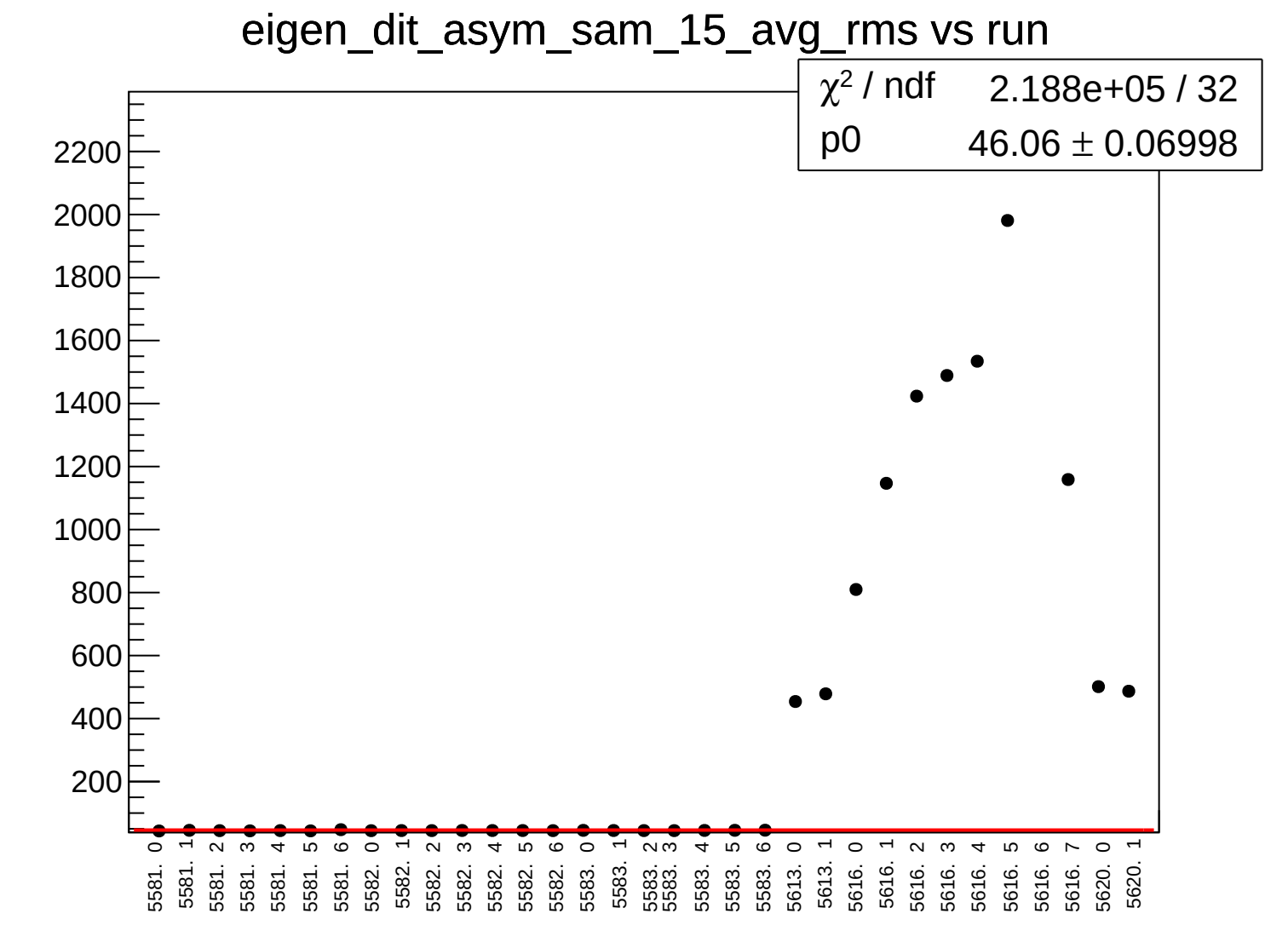

dit_asym_sam_15_avg_rms vs run
χ² / ndf 2.188e+05 / 32
p0 46.06 ± 0.06998
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

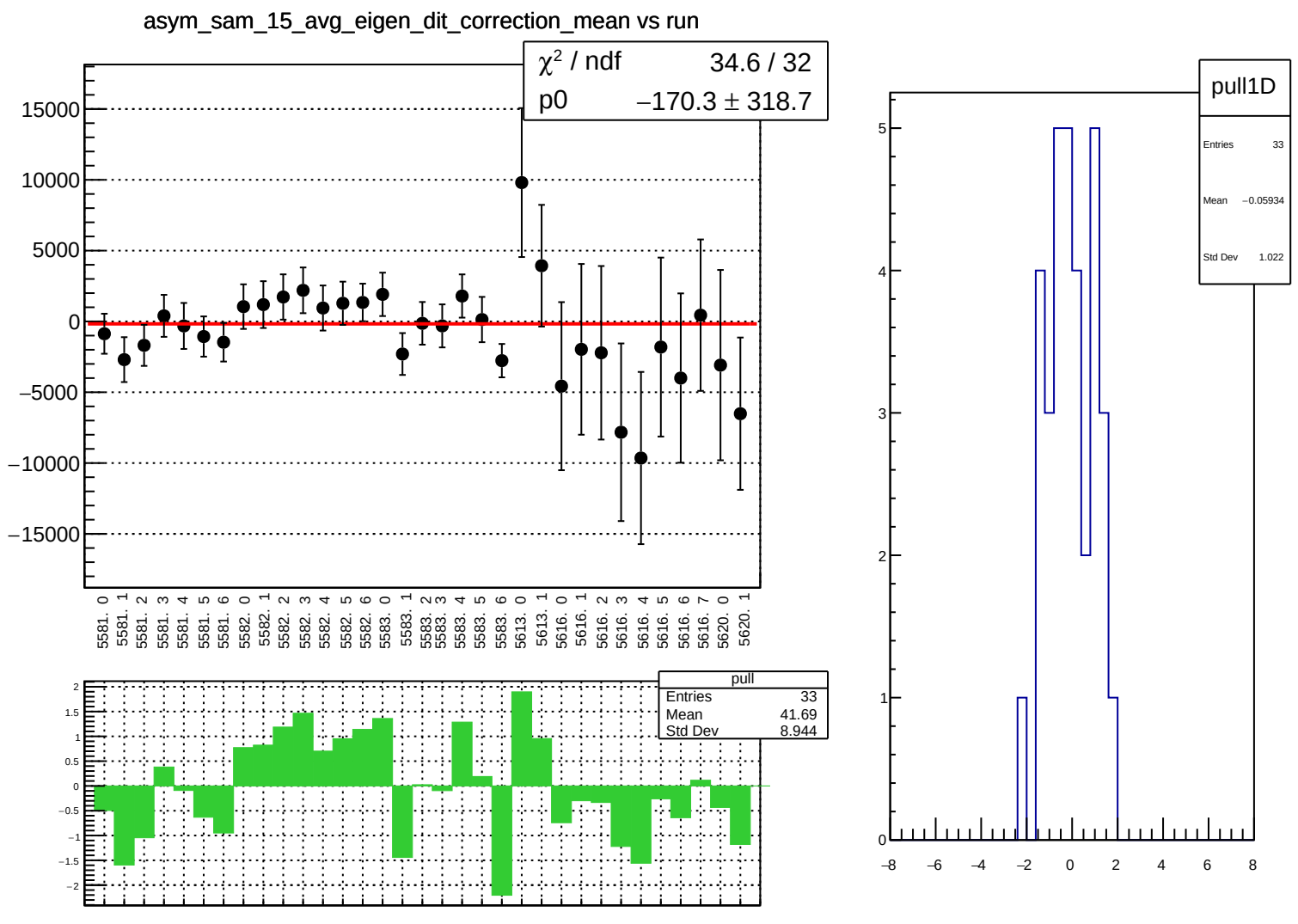

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 34.6 / 32
p0 −170.3 ± 318.7
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 41.69
Std Dev 8.944
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

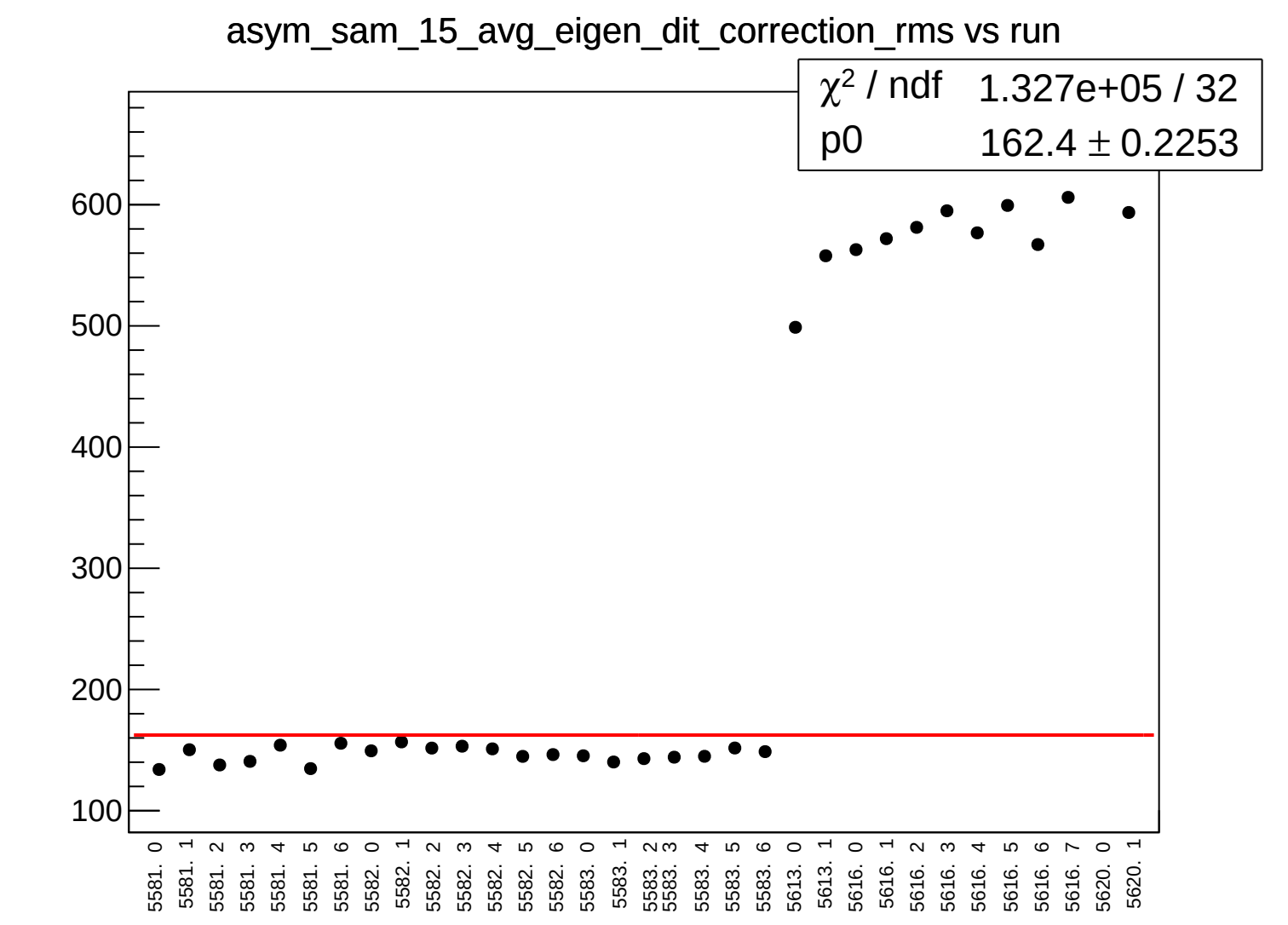

pull1D
Entries 33
Mean −0.05934
Std Dev 1.022
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

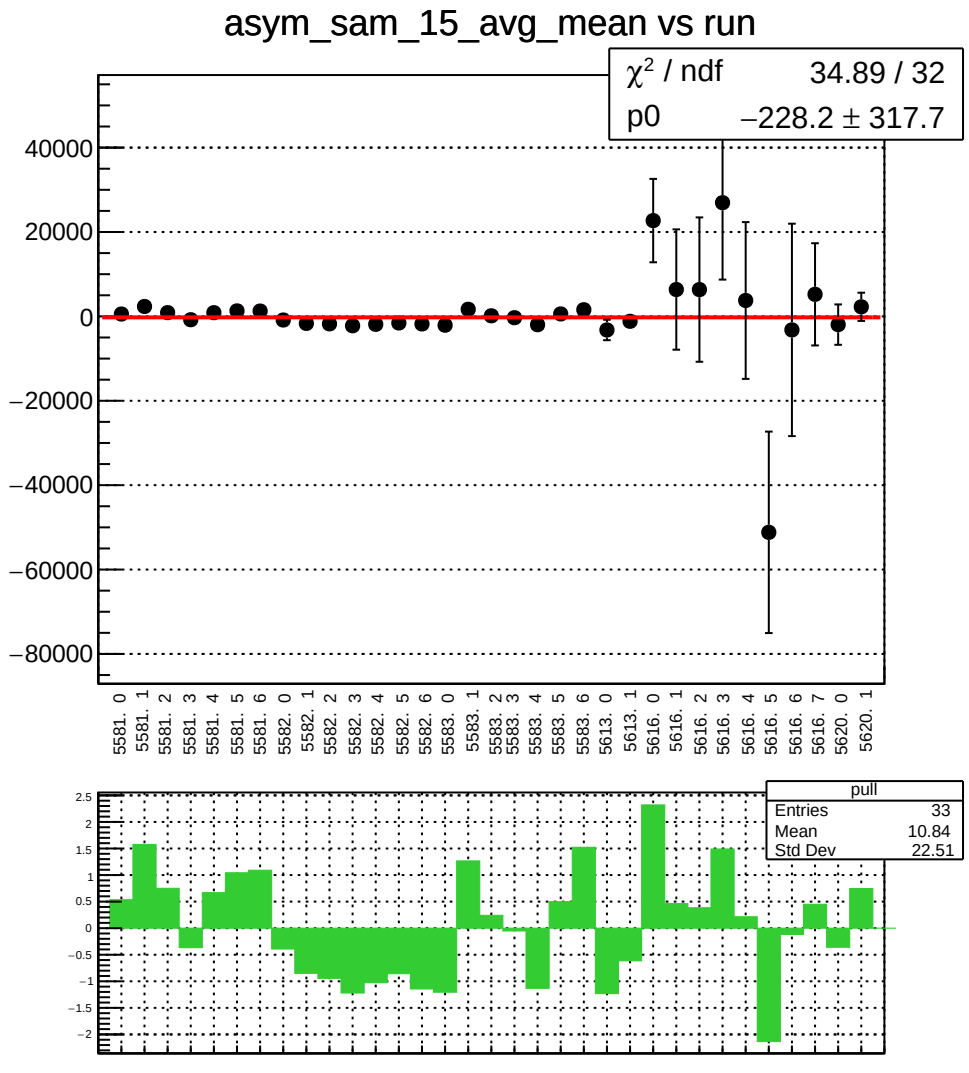

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 1.327e+05 / 32
p0 162.4 ± 0.2253
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

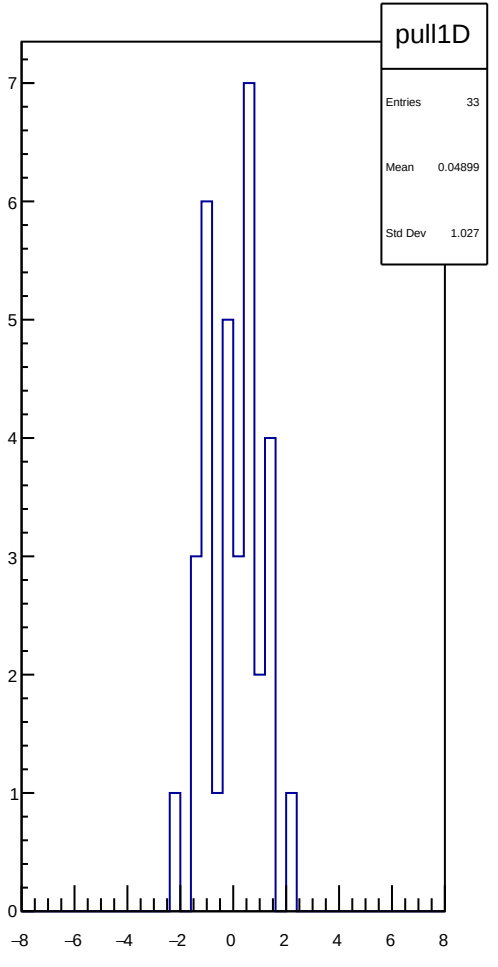

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 39.68 / 32
p0 −280.4 ± 98.97
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2.779
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.0773
Std Dev 1.094
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

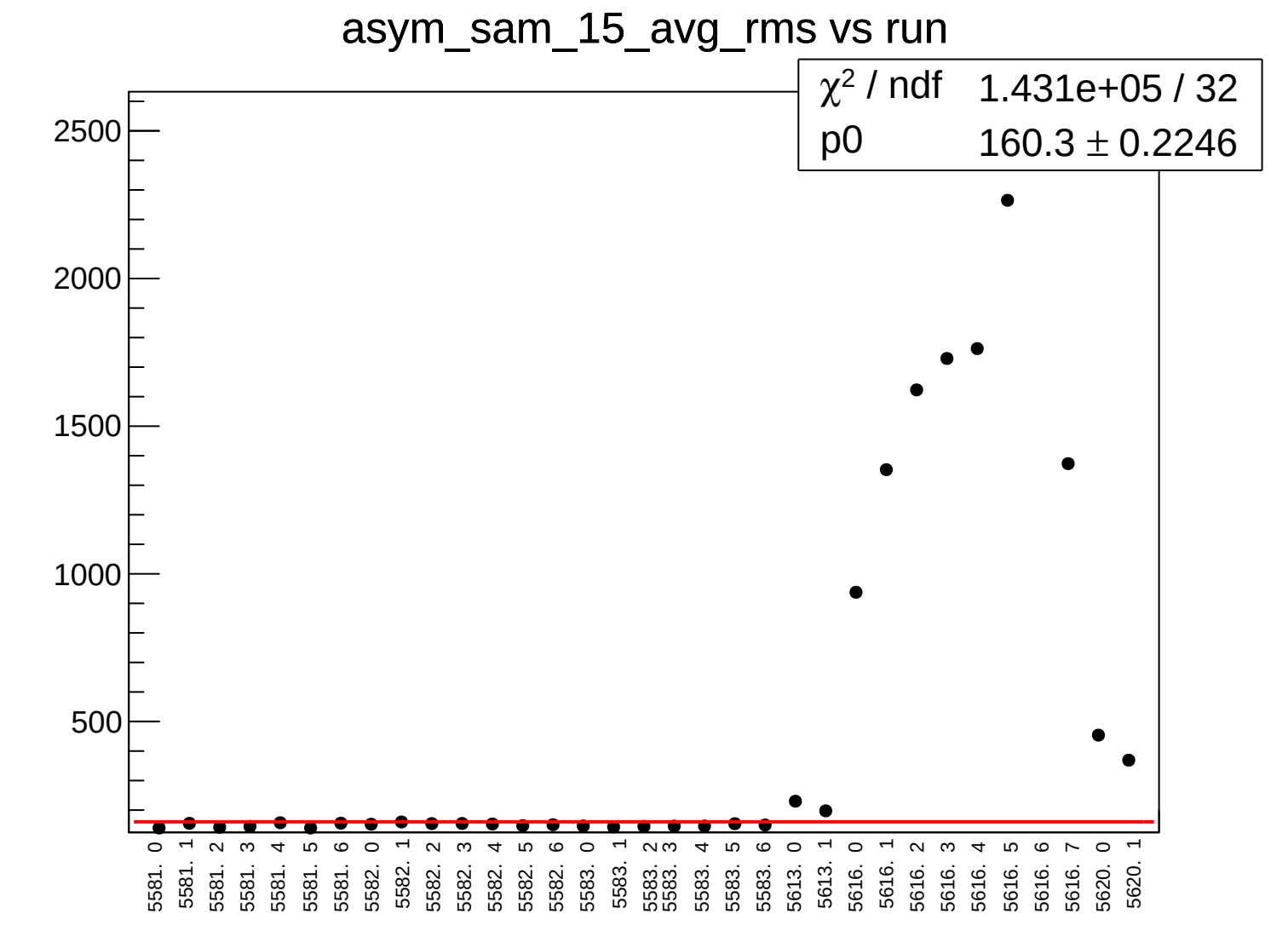

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 2.188e+05 / 32
p0 46.06 ± 0.06998
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

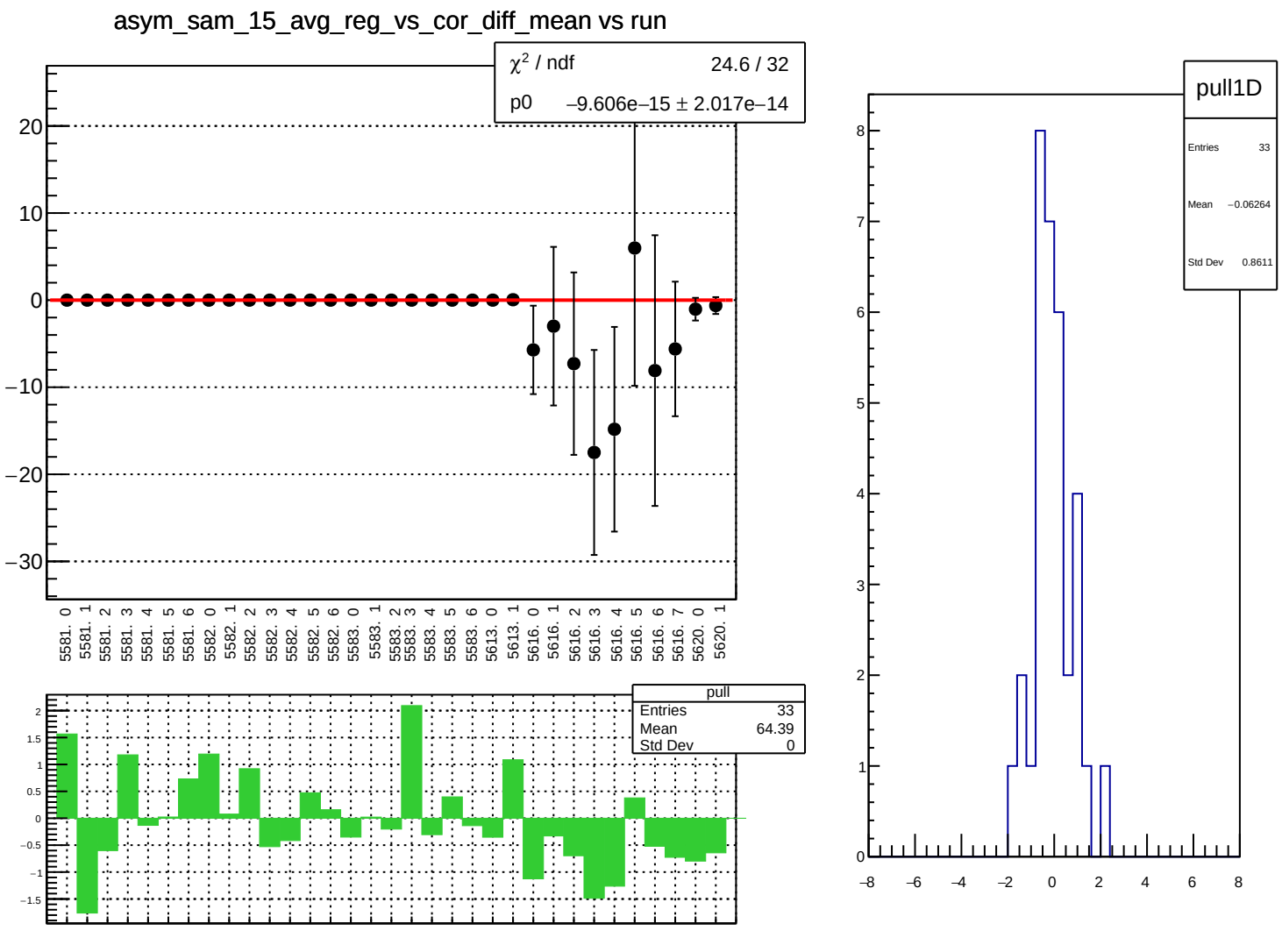

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 34.6 / 32
p0 −170.3 ± 318.7
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 41.69
Std Dev 8.944
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.05934
Std Dev 1.022
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

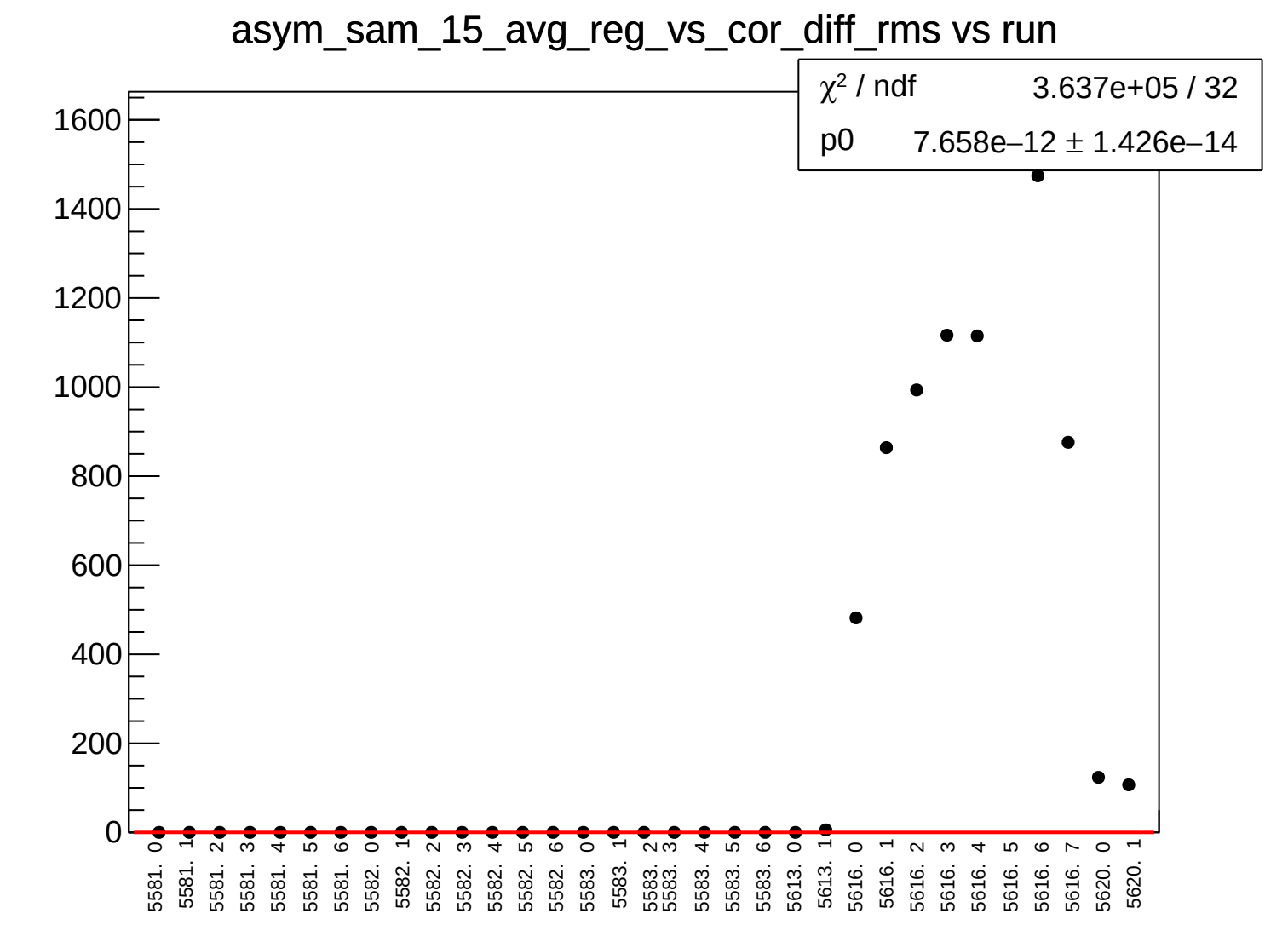

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.327e+05 / 32
p0 162.4 ± 0.2253
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

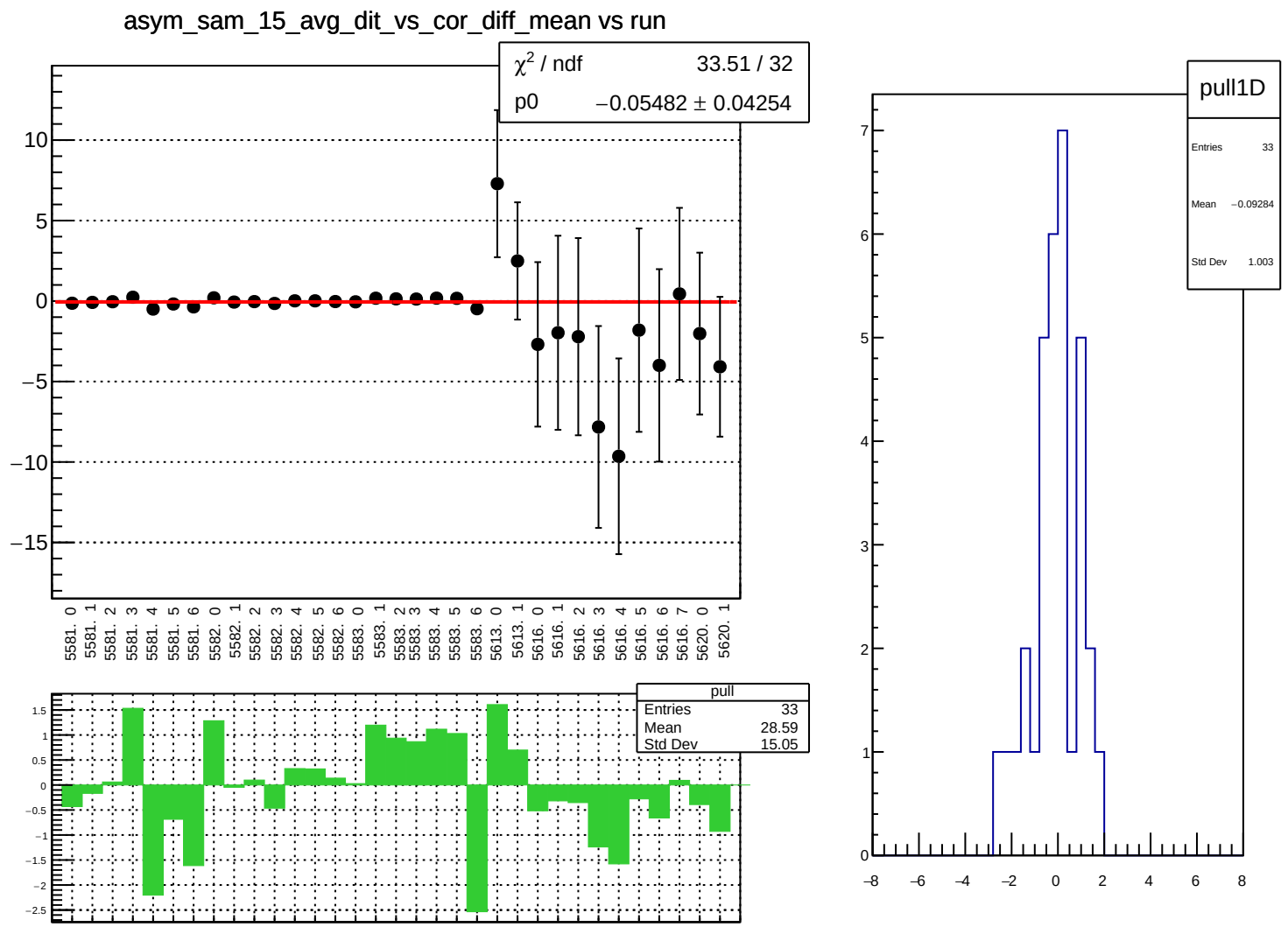

asym_sam_15_avg_mean vs run
χ² / ndf 34.89 / 32
p0 −228.2 ± 317.7
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 10.84
Std Dev 22.51
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

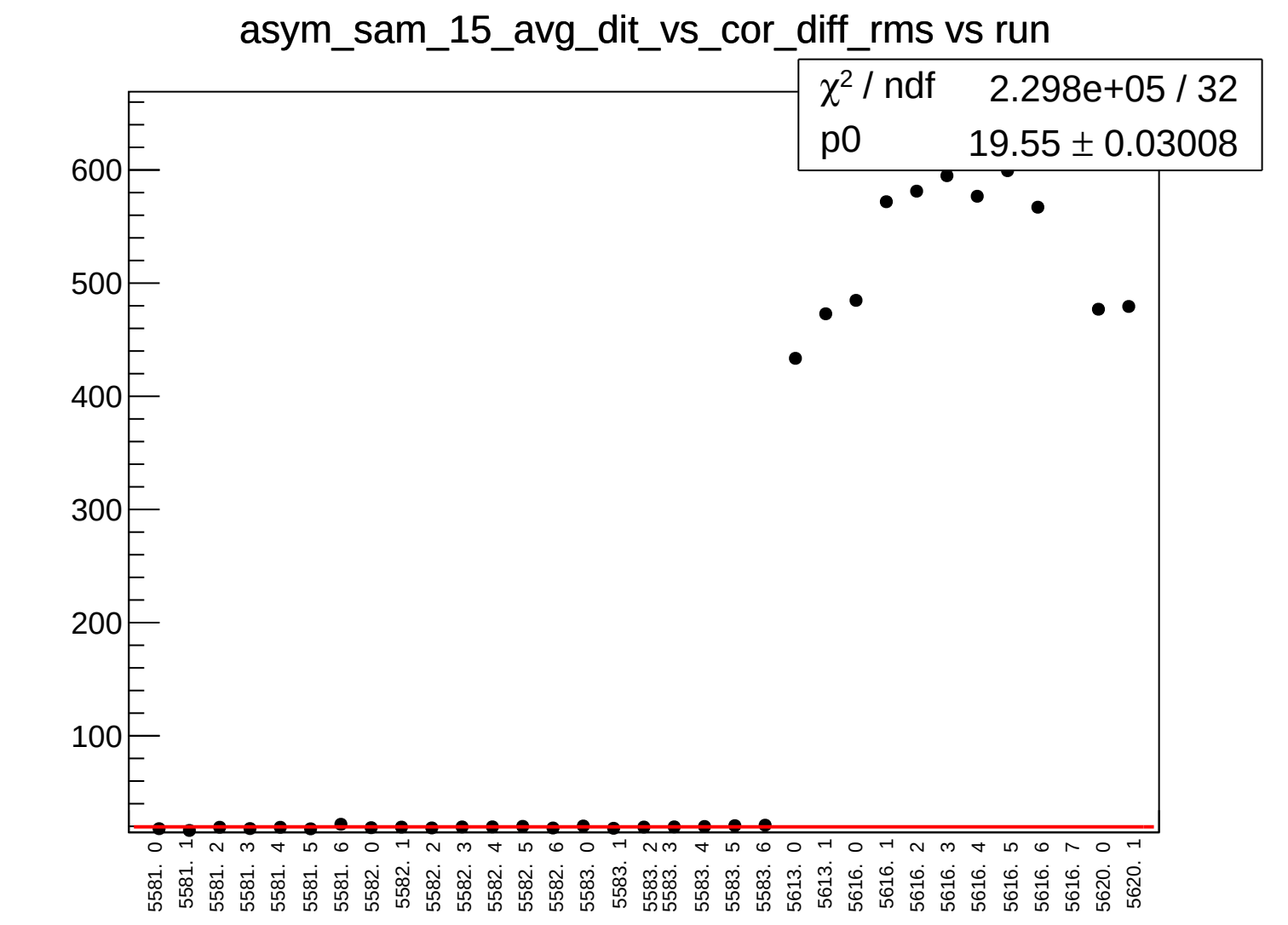

pull1D
Entries 33
Mean 0.04899
Std Dev 1.027
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

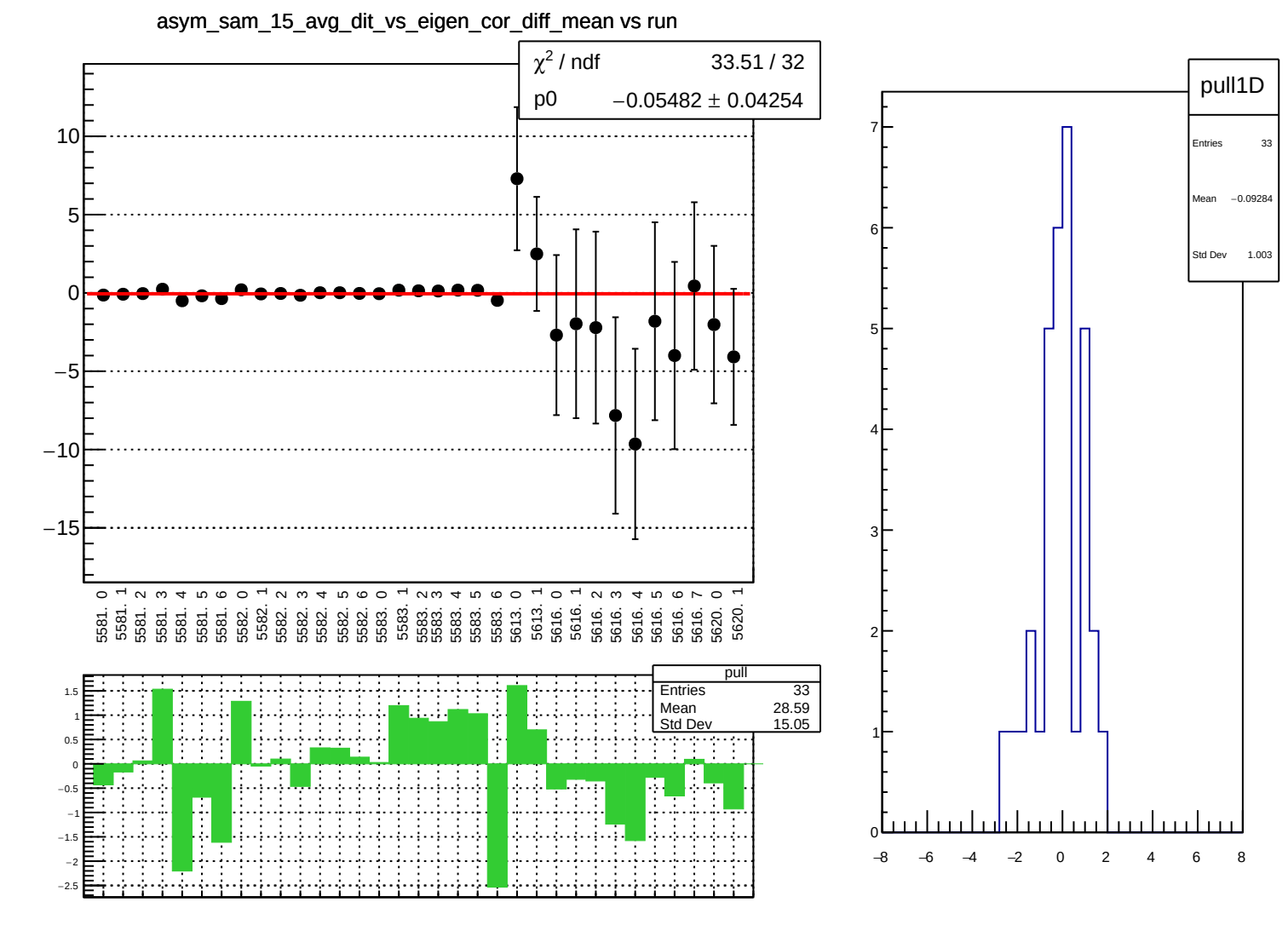

asym_sam_15_avg_rms vs run
χ² / ndf 1.431e+05 / 32
p0 160.3 ± 0.2246
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

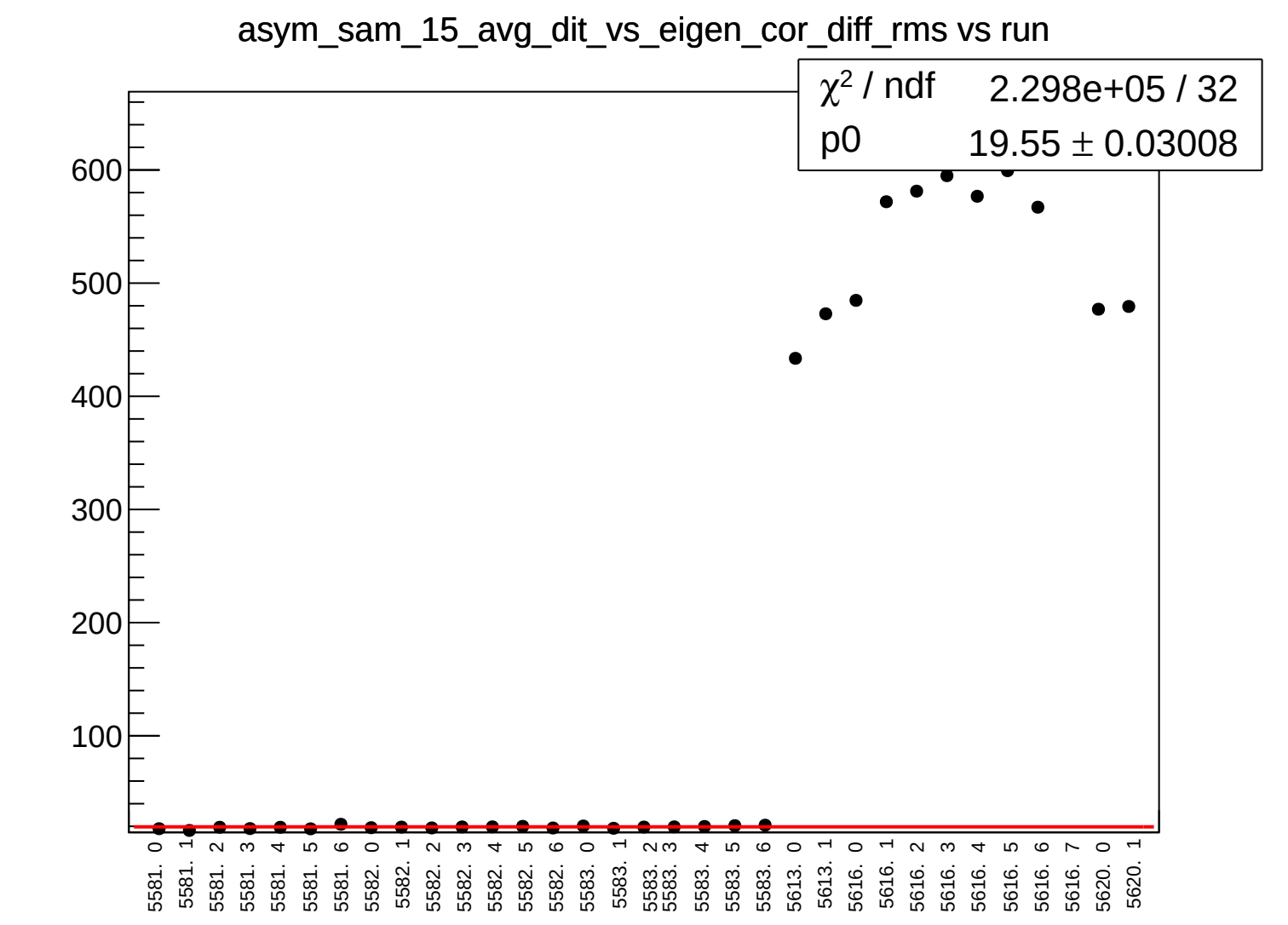

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 24.6 / 32
p0 −9.606e−15 ± 2.017e−14
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 64.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.06264
Std Dev 0.8611
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

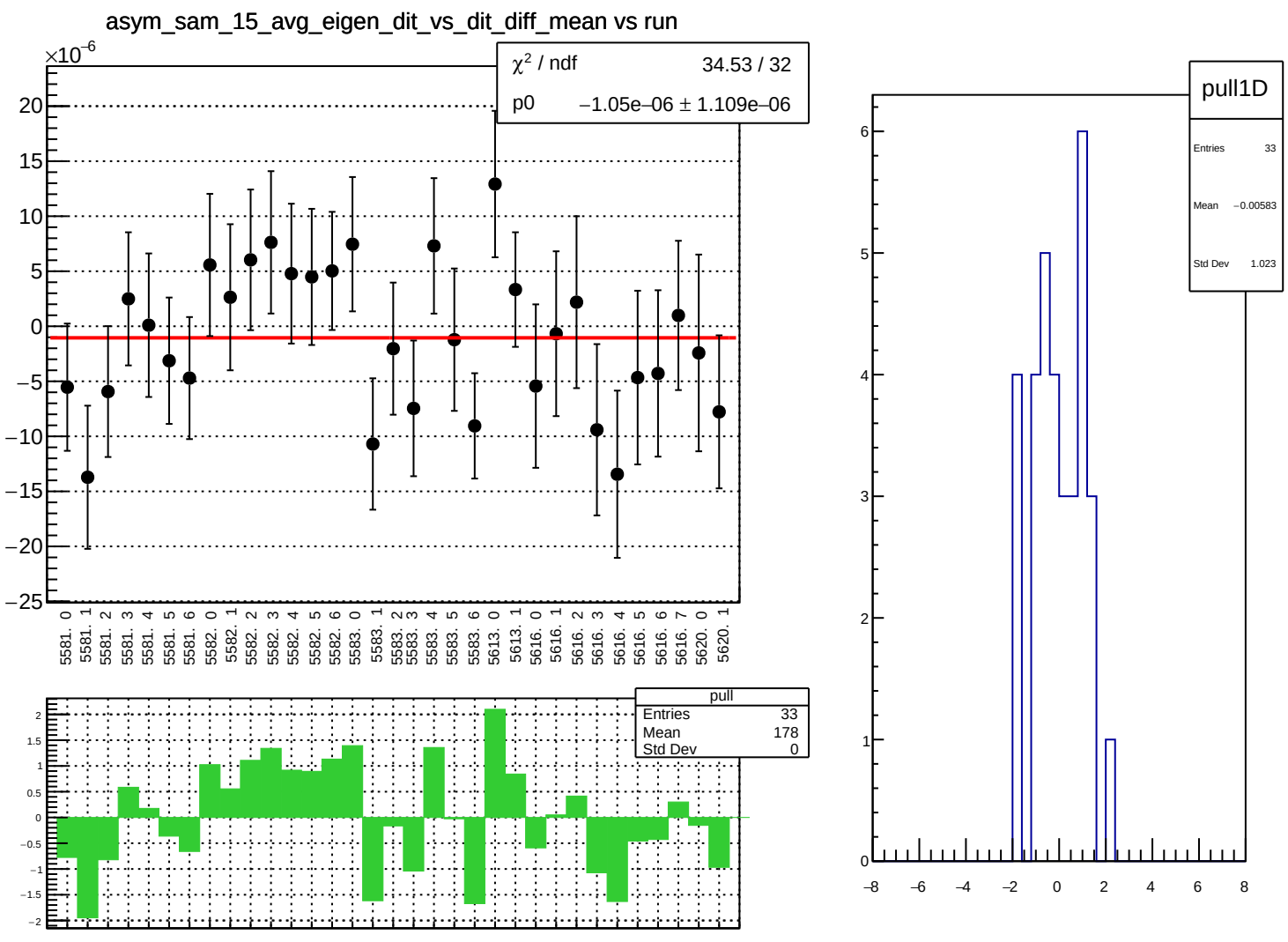

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.637e+05 / 32
p0 7.658e−12 ± 1.426e−14
1600
1400
1200
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

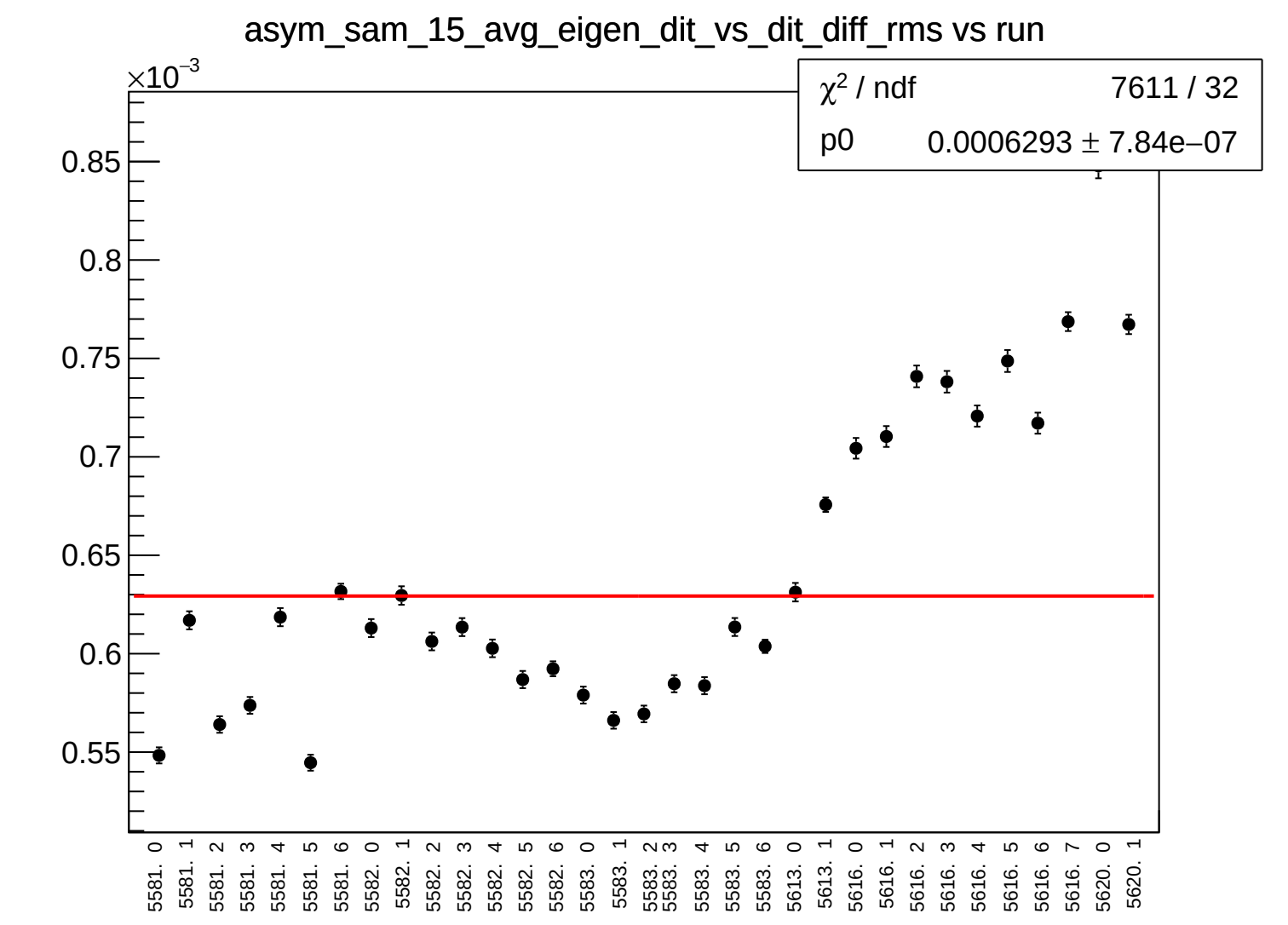

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 33.51 / 32
p0 −0.05482 ± 0.04254
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.59
Std Dev 15.05
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.09284
Std Dev 1.003
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

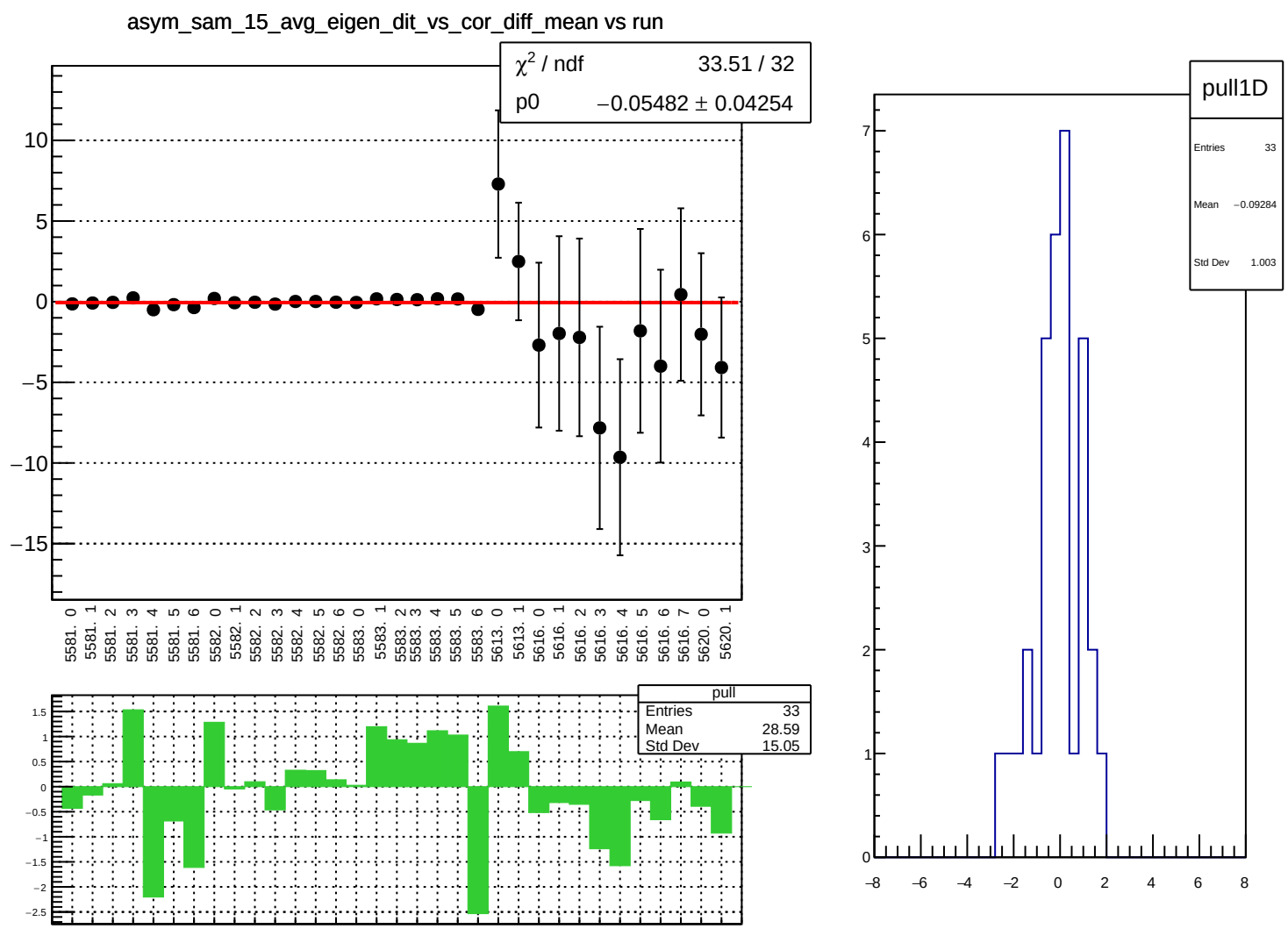

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.298e+05 / 32
p0 19.55 ± 0.03008
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

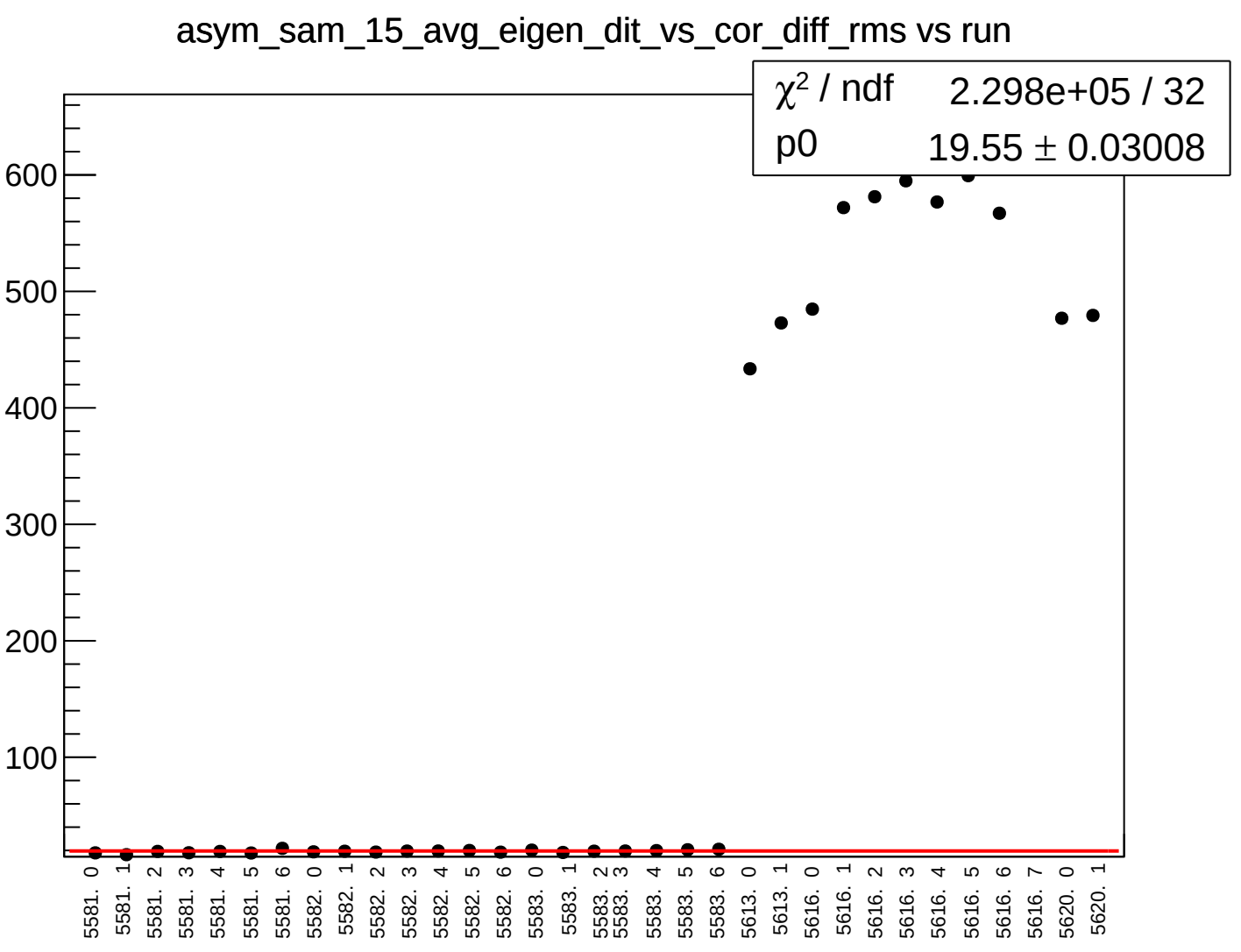

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.51 / 32
p0 −0.05482 ± 0.04254
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.59
Std Dev 15.05
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.09284
Std Dev 1.003
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

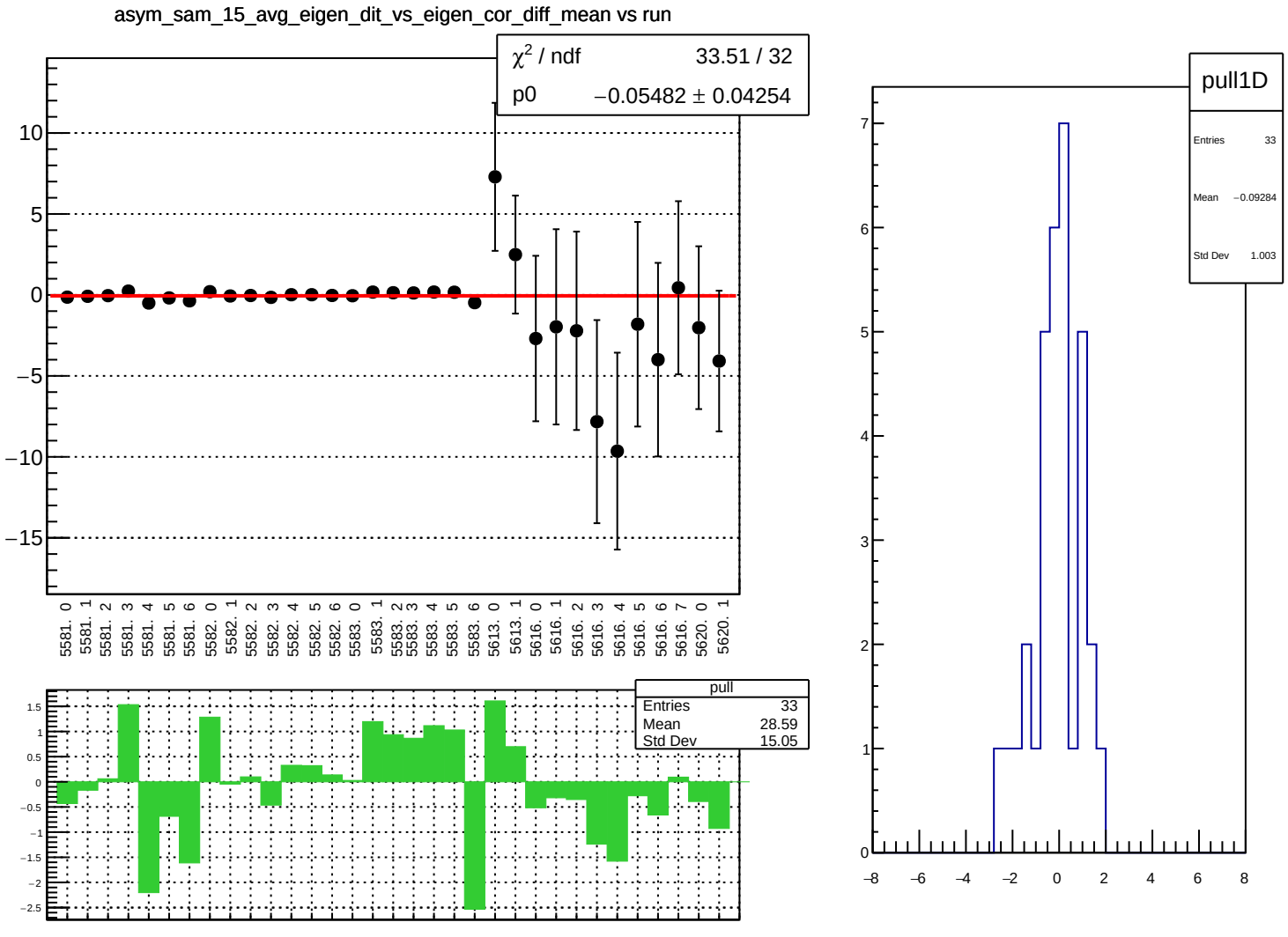

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.298e+05 / 32
p0 19.55 ± 0.03008
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

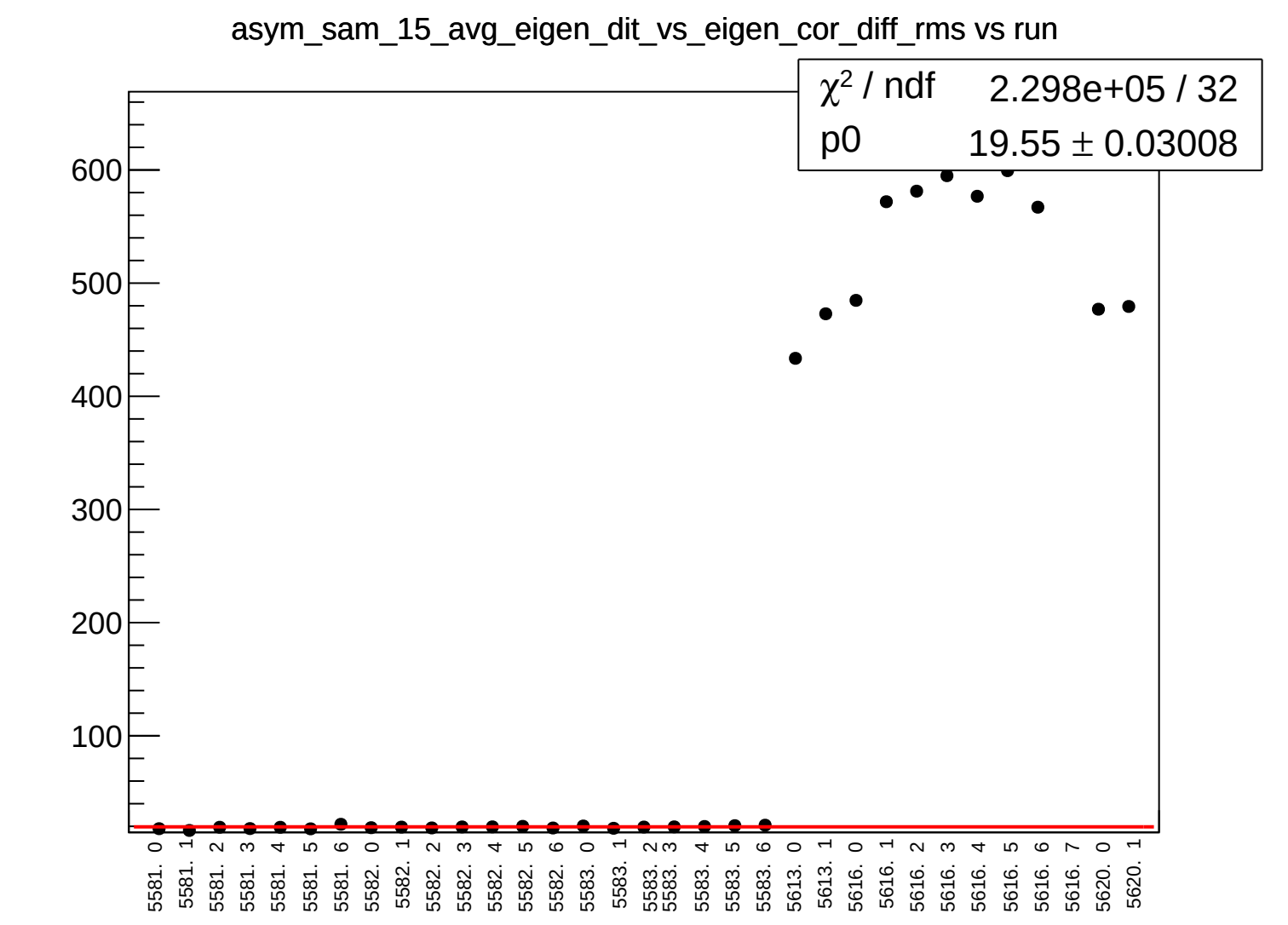

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 34.53 / 32
p0 −1.05e−06 ± 1.109e−06
20
15
10
5
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 178
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.00583
Std Dev 1.023
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

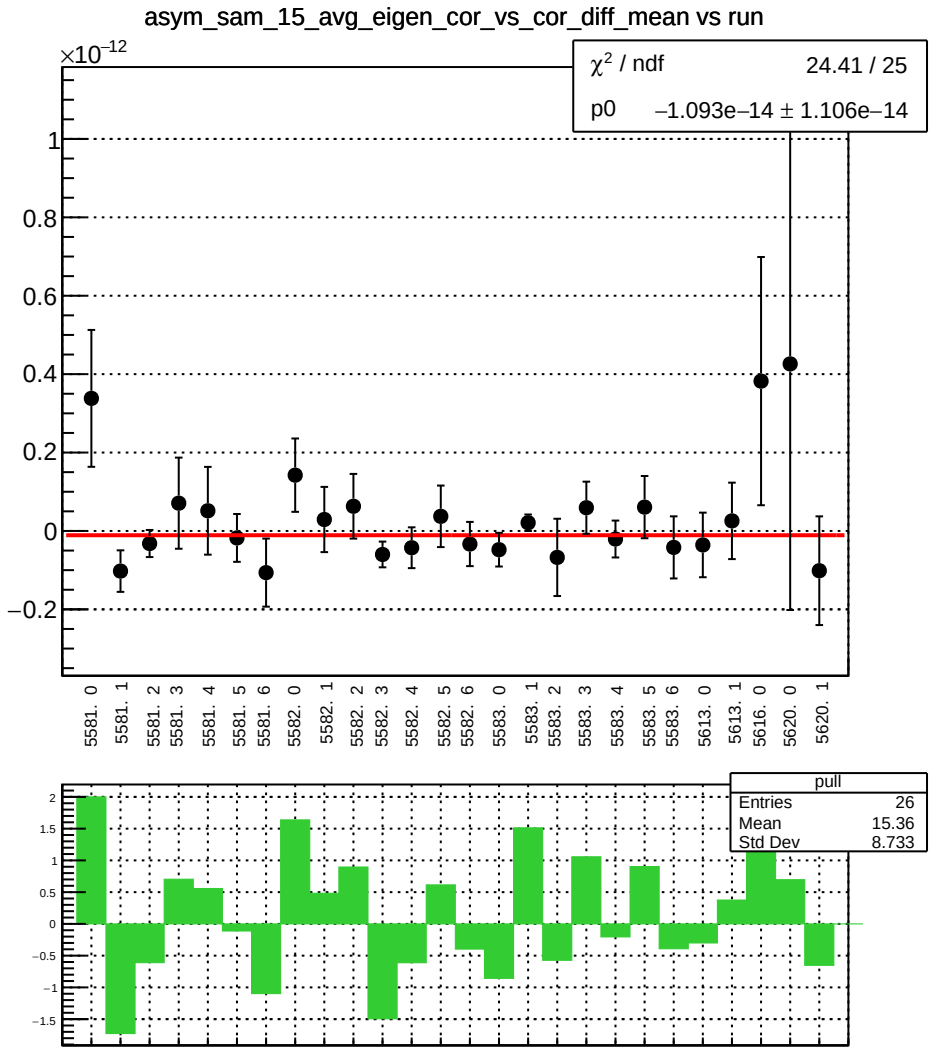

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 7611 / 32
p0 0.0006293 ± 7.84e−07
0.85
0.8
0.75
0.7
0.65
0.6
0.55
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

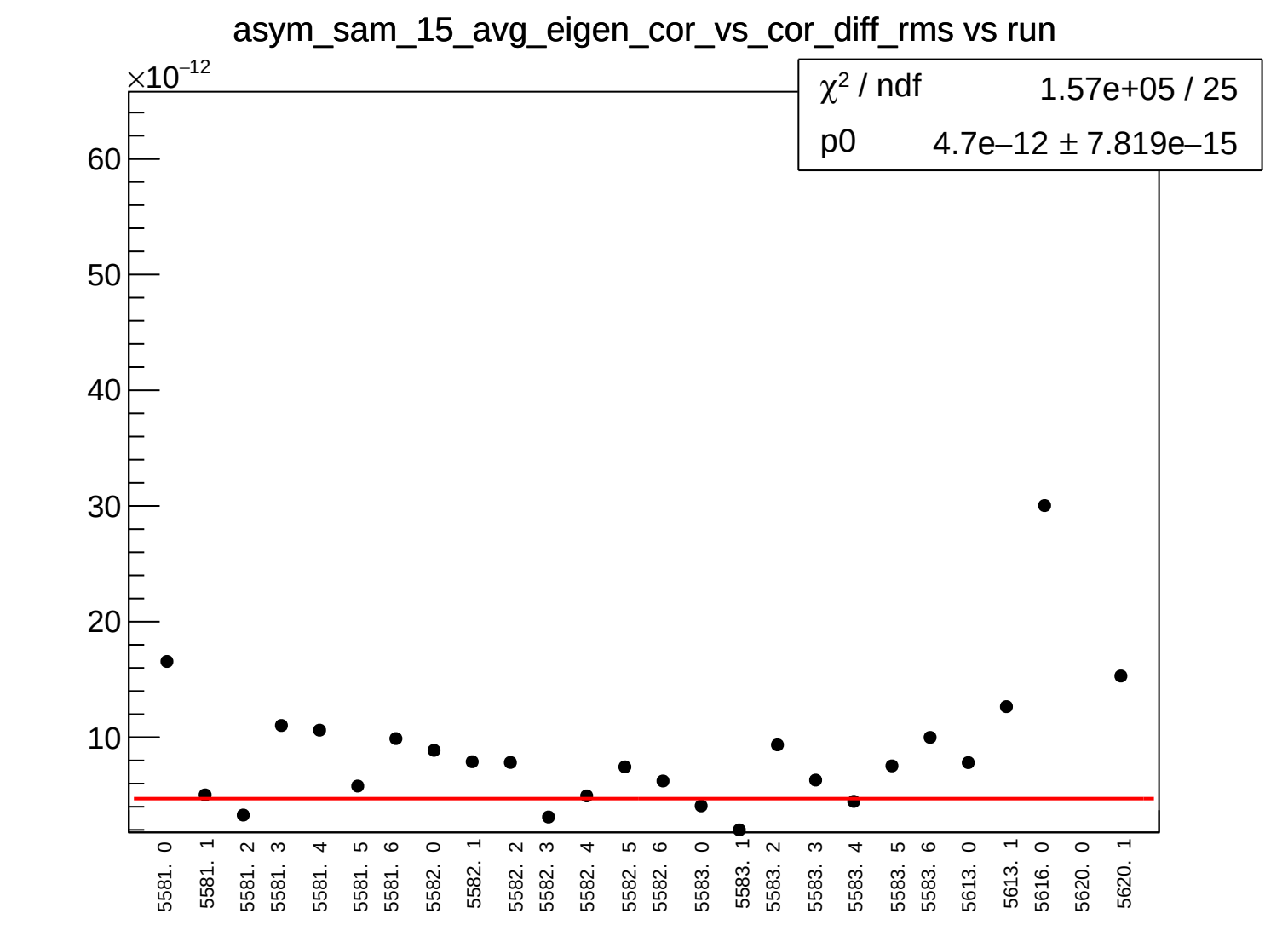

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 33.51 / 32
p0 −0.05482 ± 0.04254
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.59
Std Dev 15.05
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.09284
Std Dev 1.003
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

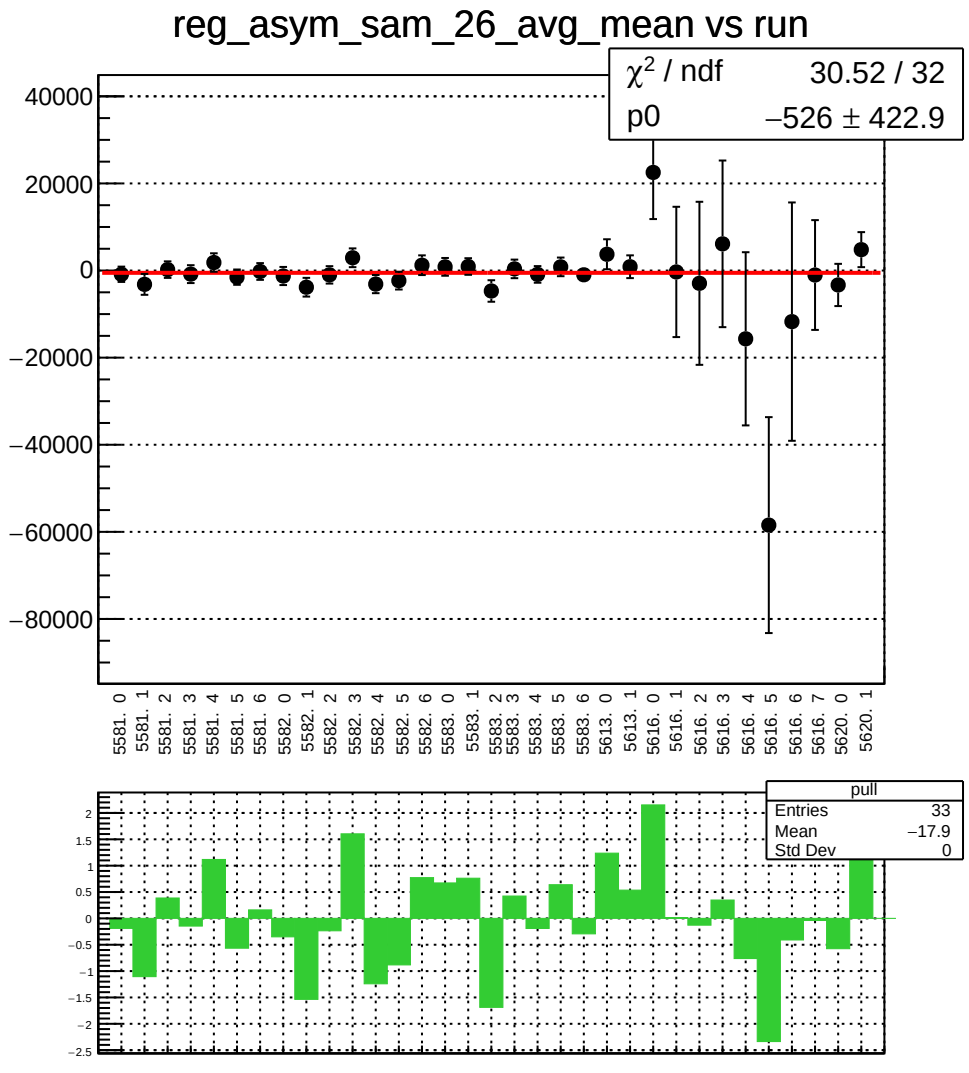

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.298e+05 / 32
p0 19.55 ± 0.03008
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

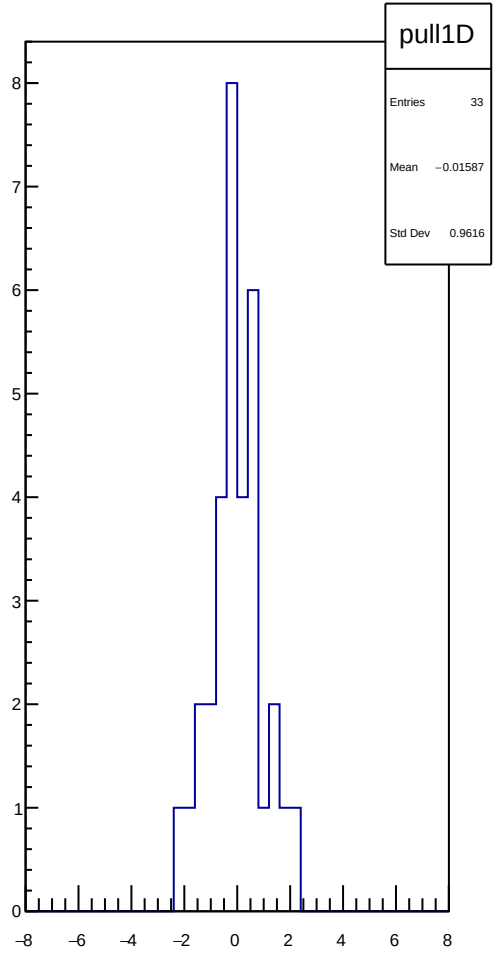

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 33.51 / 32
p0 −0.05482 ± 0.04254
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.59
Std Dev 15.05
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.09284
Std Dev 1.003
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

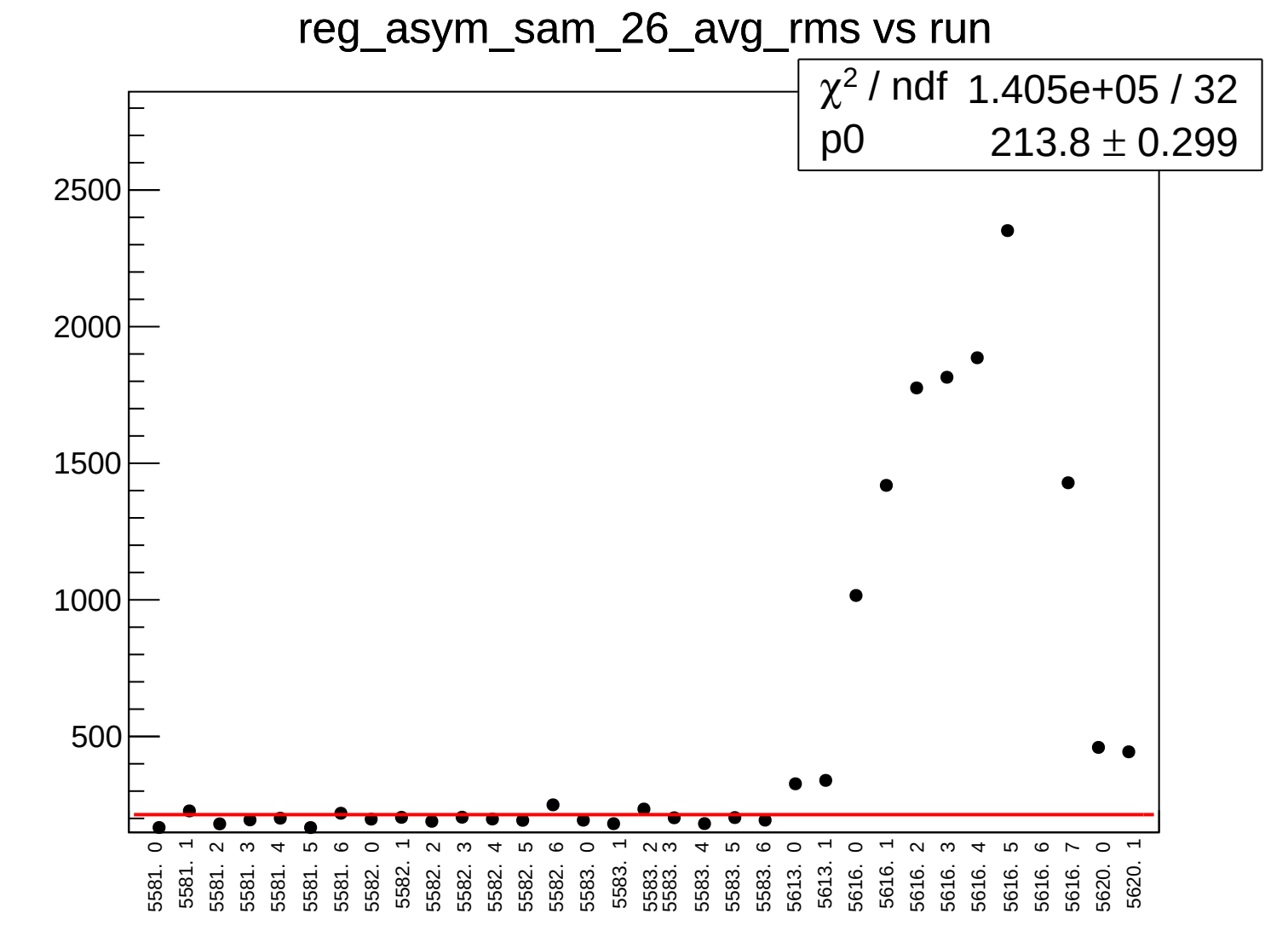

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.298e+05 / 32
p0 19.55 ± 0.03008
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

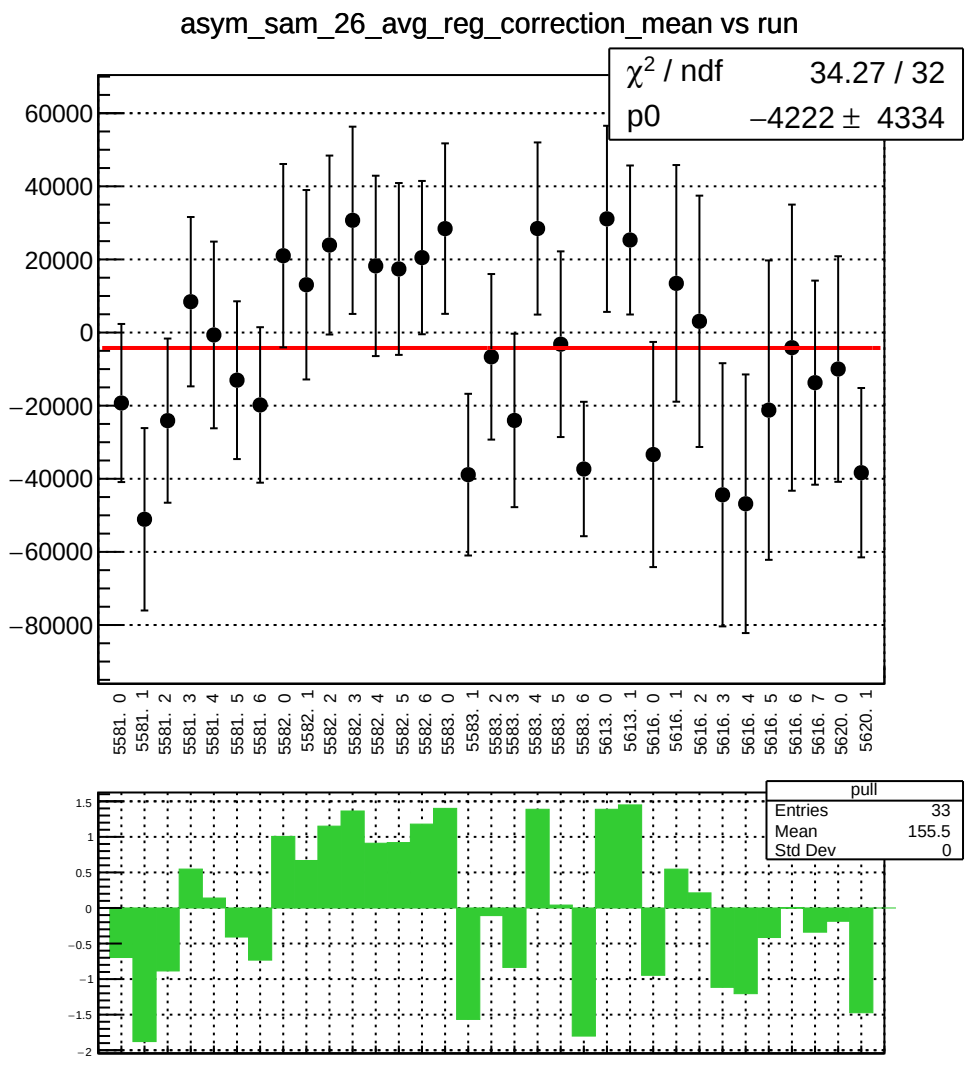

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.41 / 25
p0 −1.093e−14 ± 1.106e−14
1
0.8
0.6
0.4
0.2
0
−0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 15.36
Std Dev 8.733
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.1402
Std Dev 0.9587
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

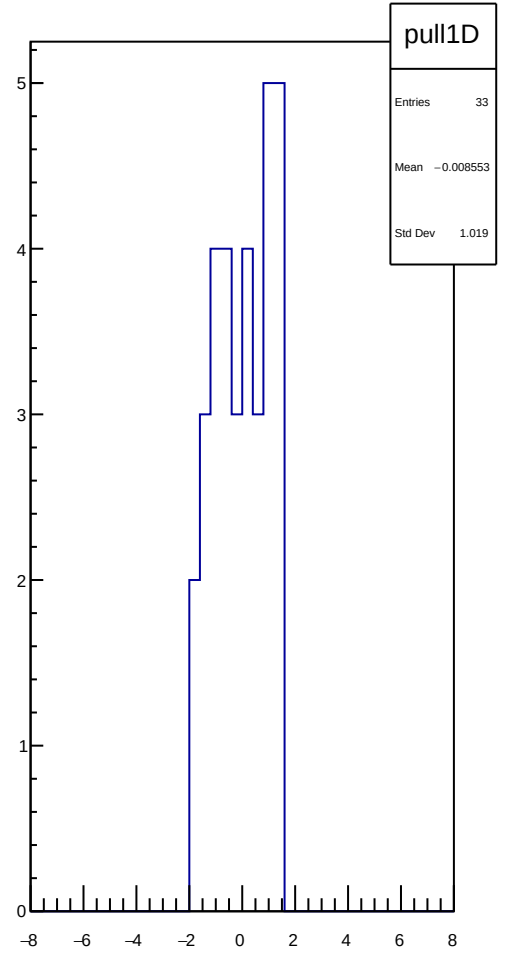

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.57e+05 / 25
p0 4.7e−12 ± 7.819e−15
60
50
40
30
20
10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

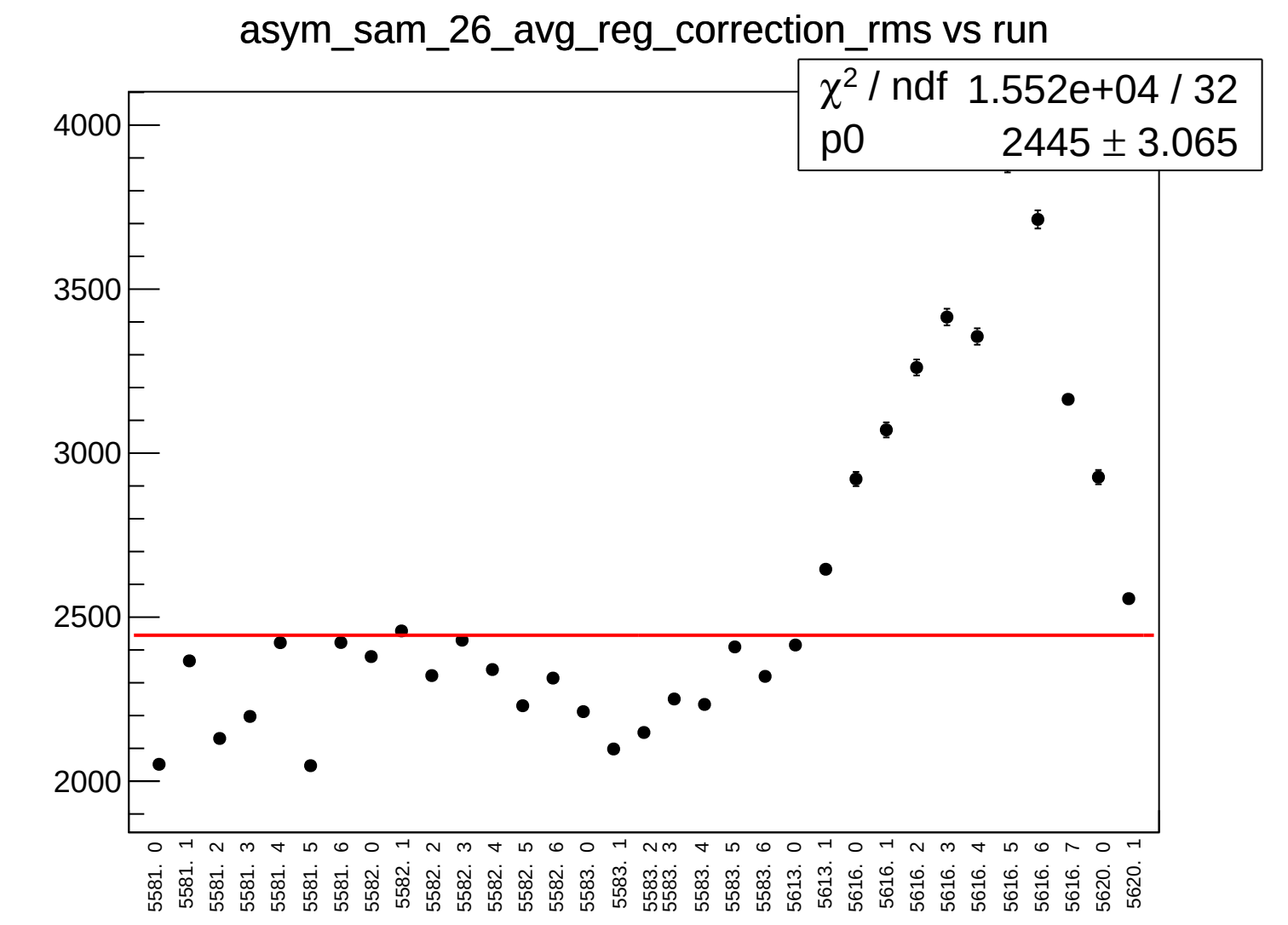

reg_asym_sam_26_avg_mean vs run
χ² / ndf 30.52 / 32
p0 −526 ± 422.9
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −17.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

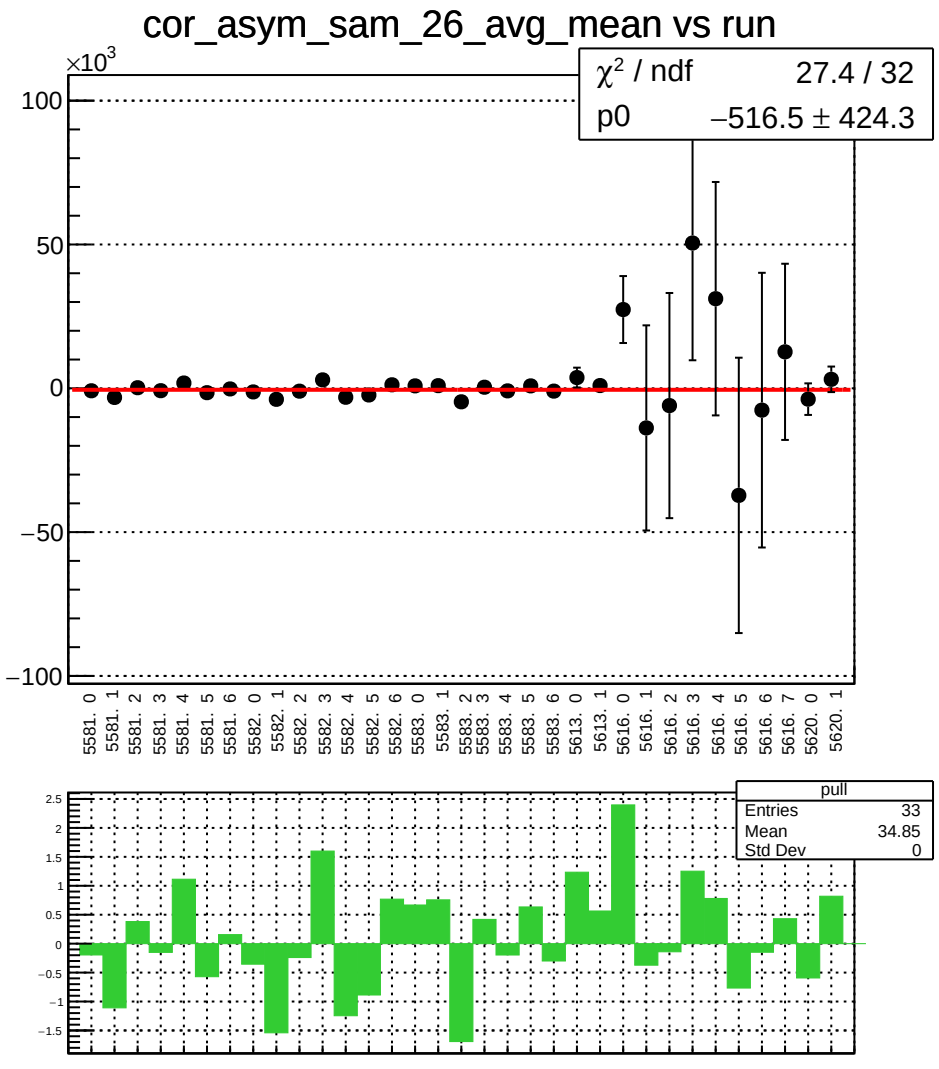

pull1D
Entries 33
Mean −0.01587
Std Dev 0.9616
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

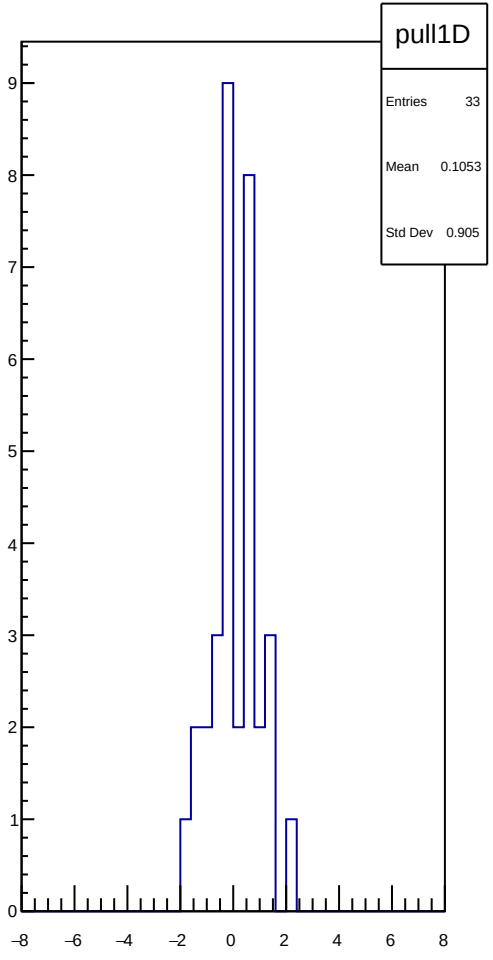

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1.405e+05 / 32
p0 213.8 ± 0.299
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

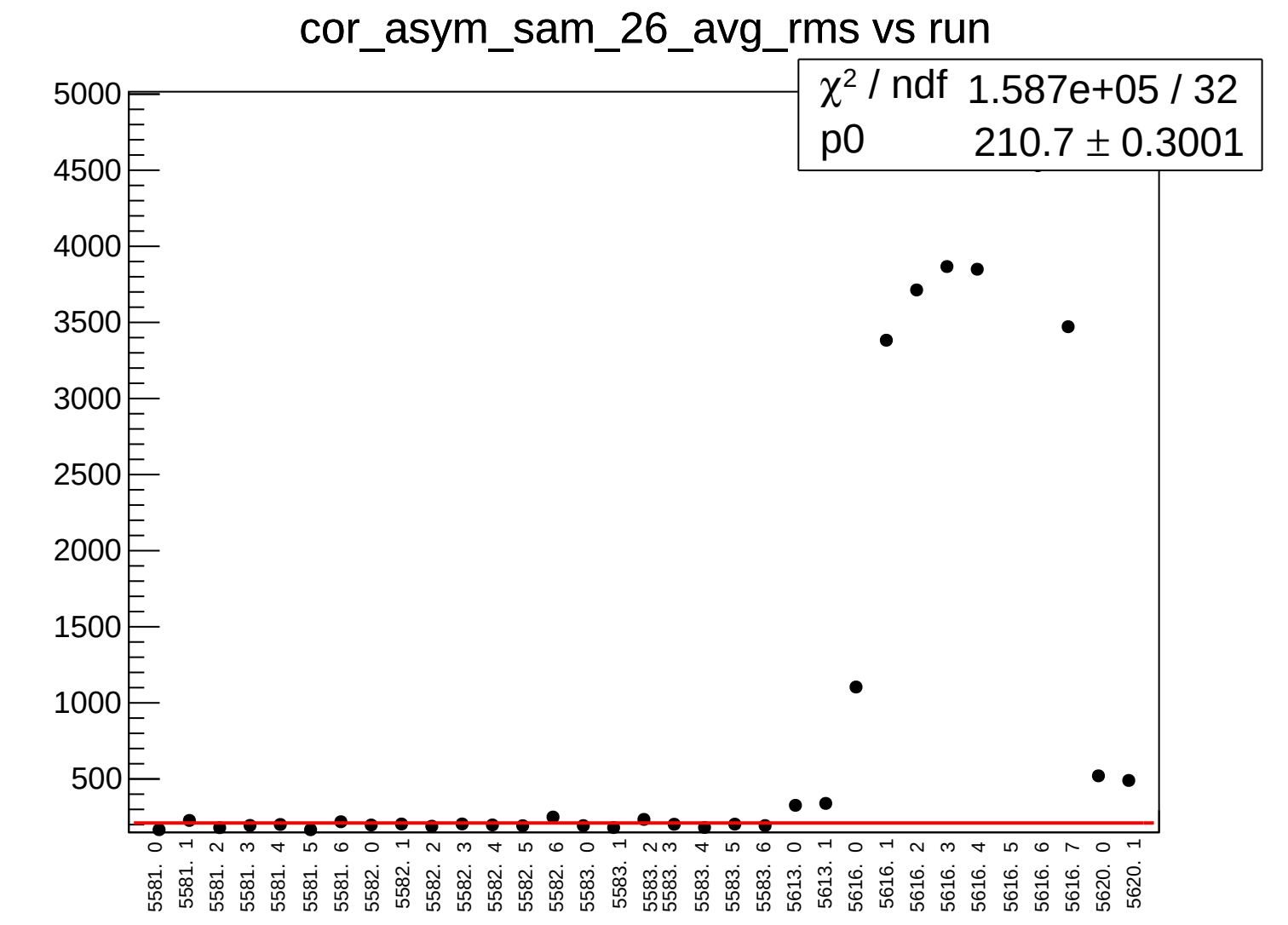

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 34.27 / 32
p0 −4222 ± 4334
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 155.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

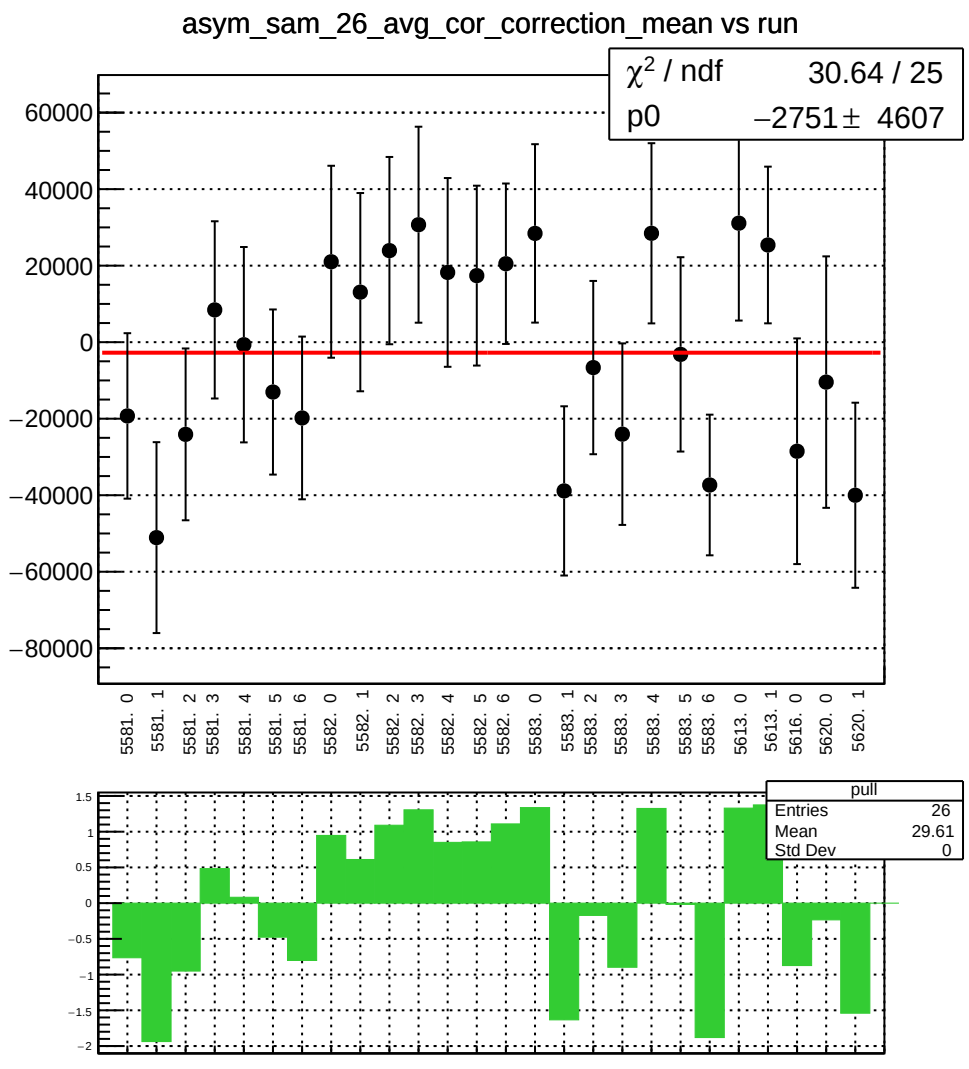

pull1D
Entries 33
Mean −0.008553
Std Dev 1.019
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

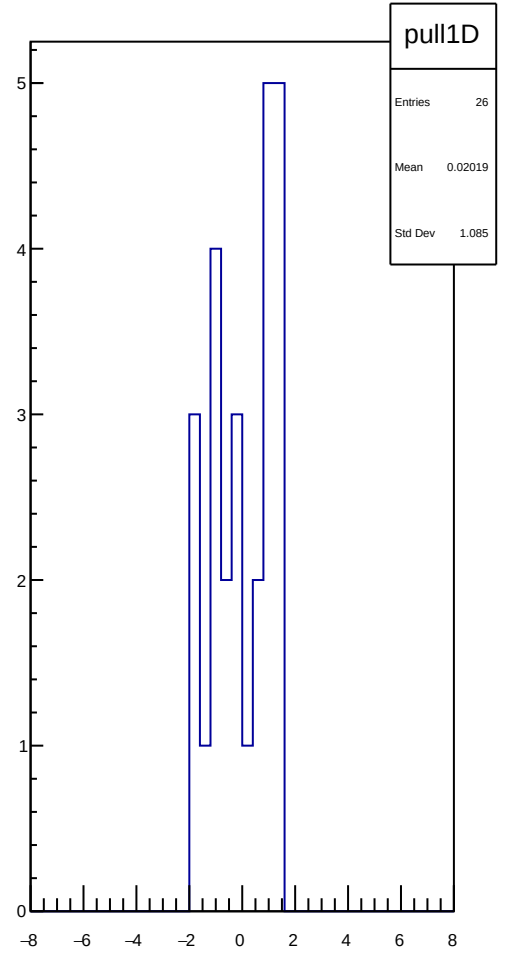

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.552e+04 / 32
p0 2445 ± 3.065
4000
3500
3000
2500
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

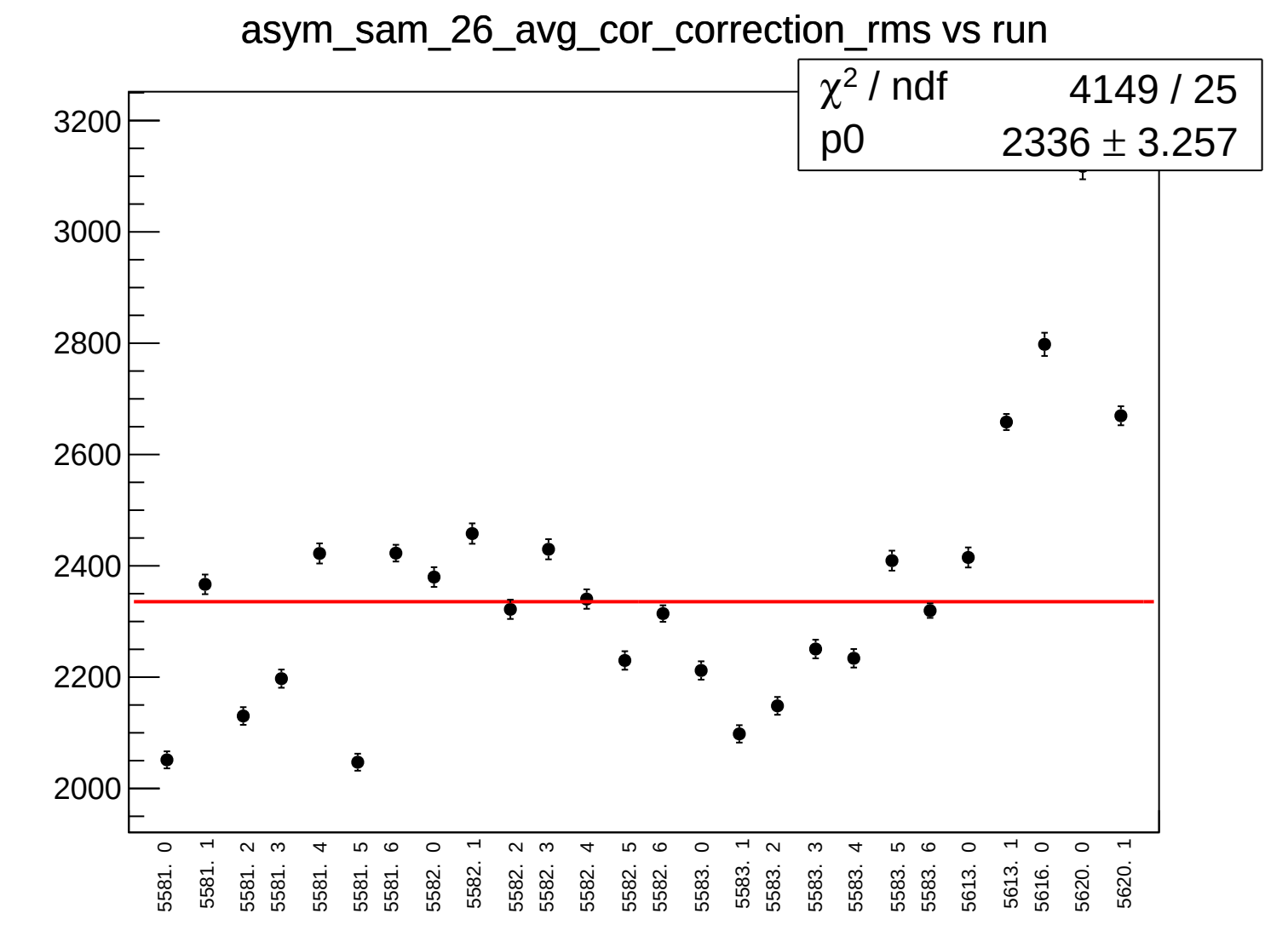

cor_asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 27.4 / 32
p0 −516.5 ± 424.3
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.85
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

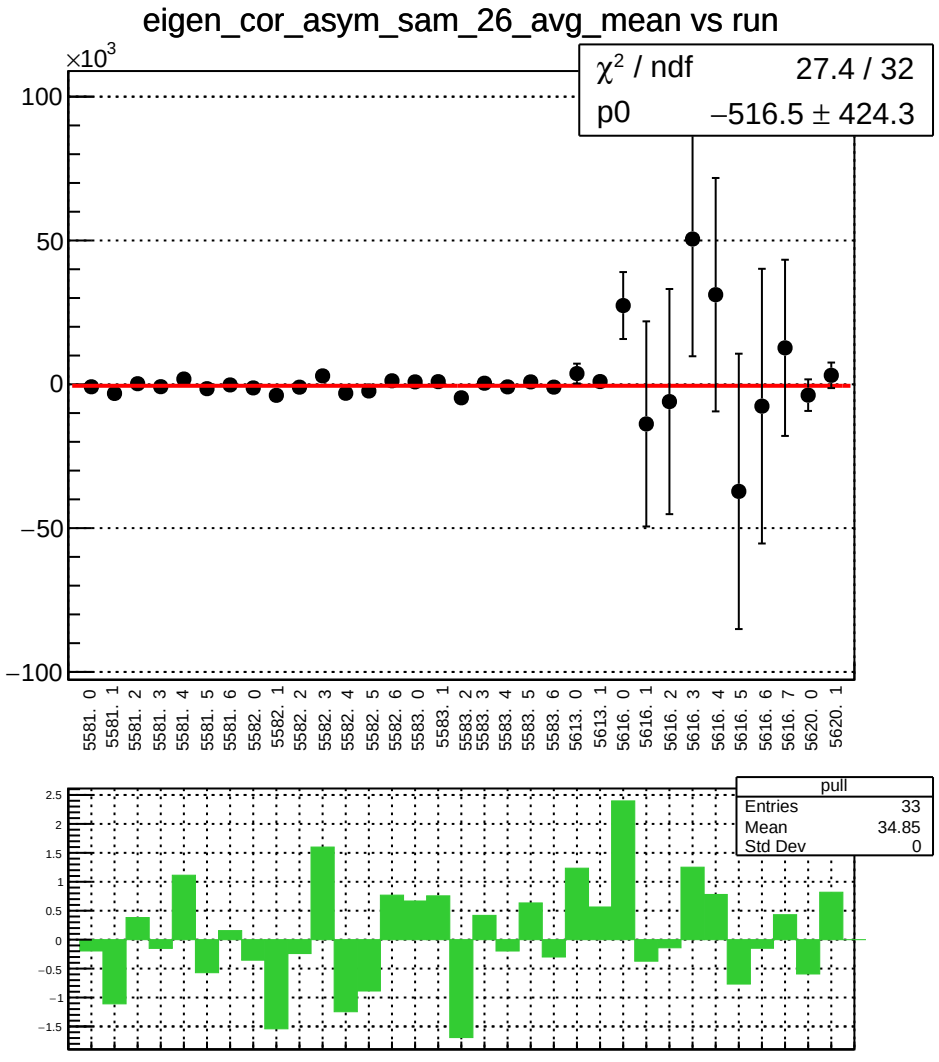

pull1D
Entries 33
Mean 0.1053
Std Dev 0.905
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

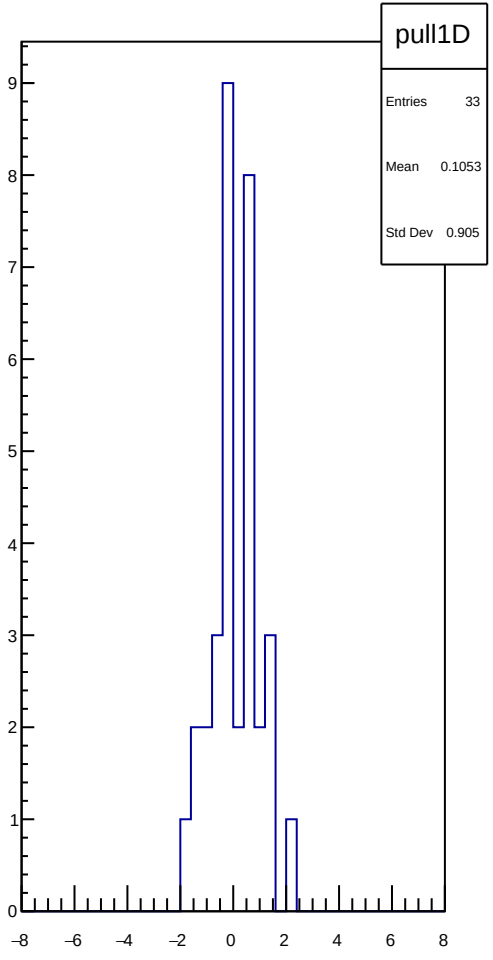

cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.587e+05 / 32
p0 210.7 ± 0.3001
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

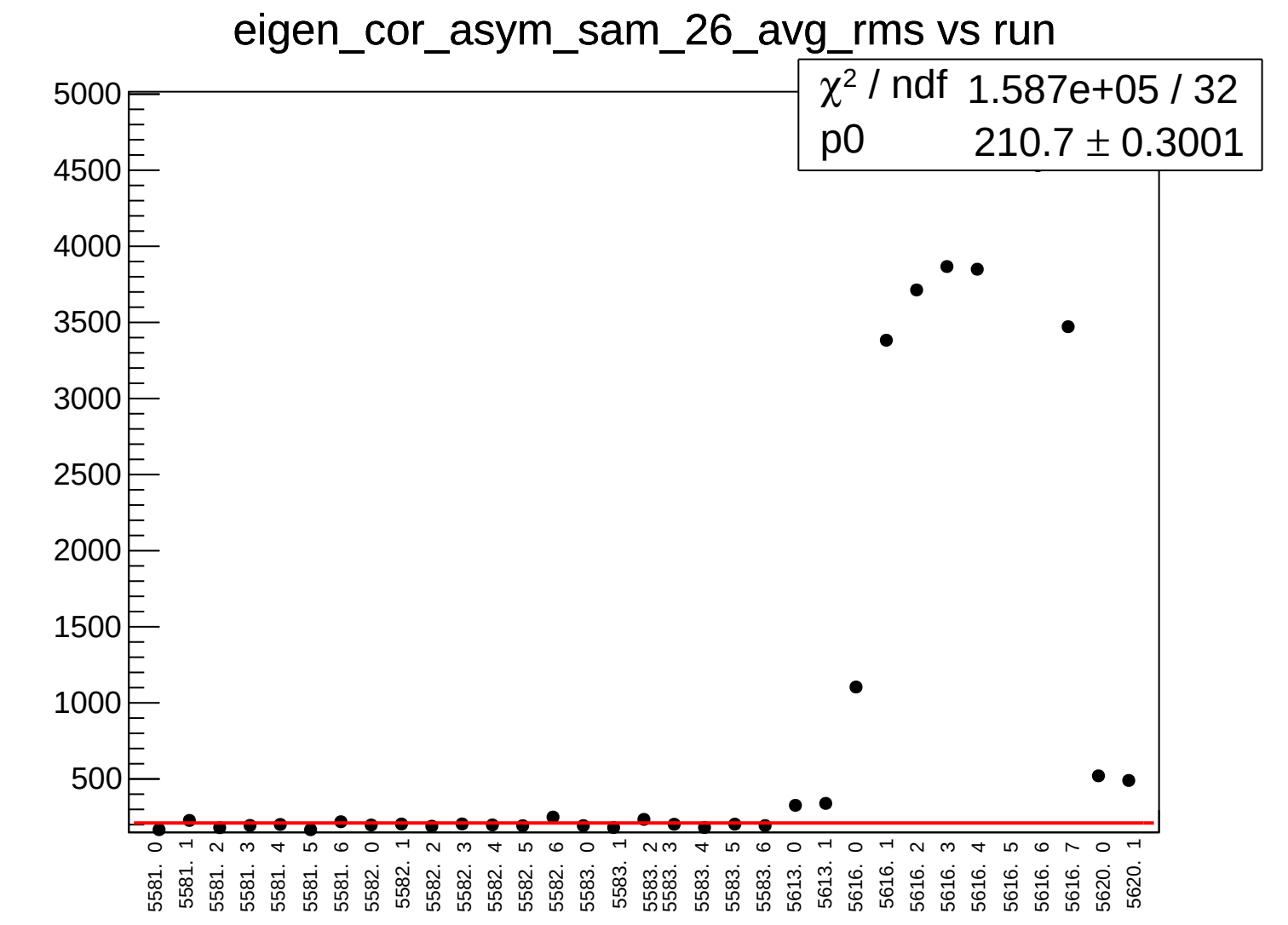

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 30.64 / 25
p0 −2751 ± 4607
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 29.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

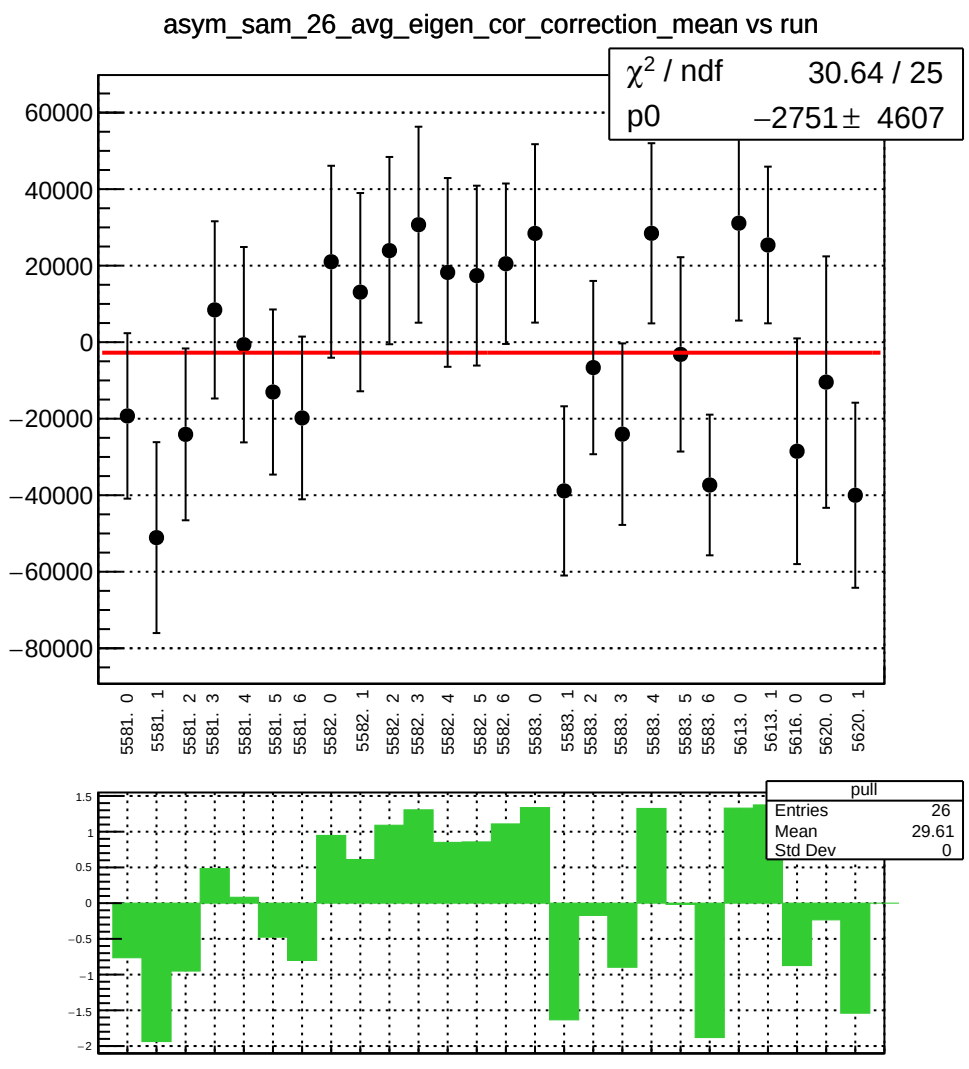

pull1D
Entries 26
Mean 0.02019
Std Dev 1.085
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

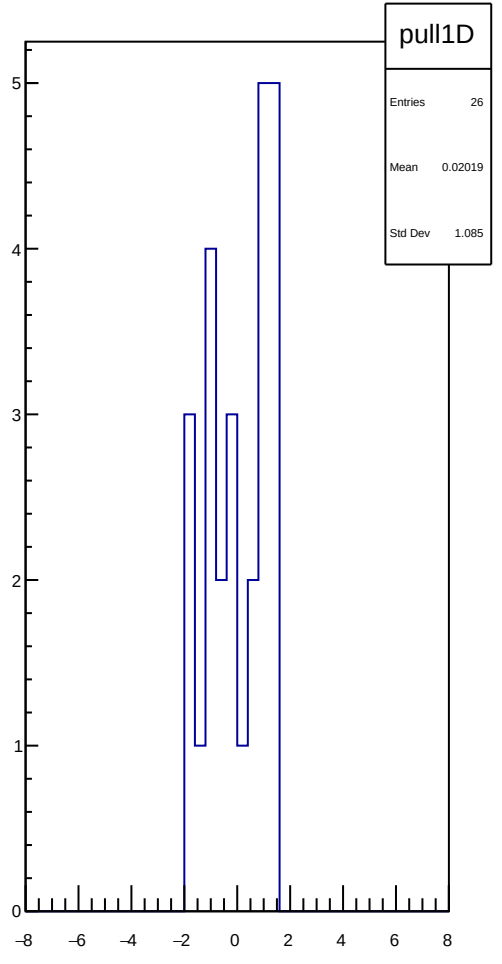

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 4149 / 25
p0 2336 ± 3.257
3200
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

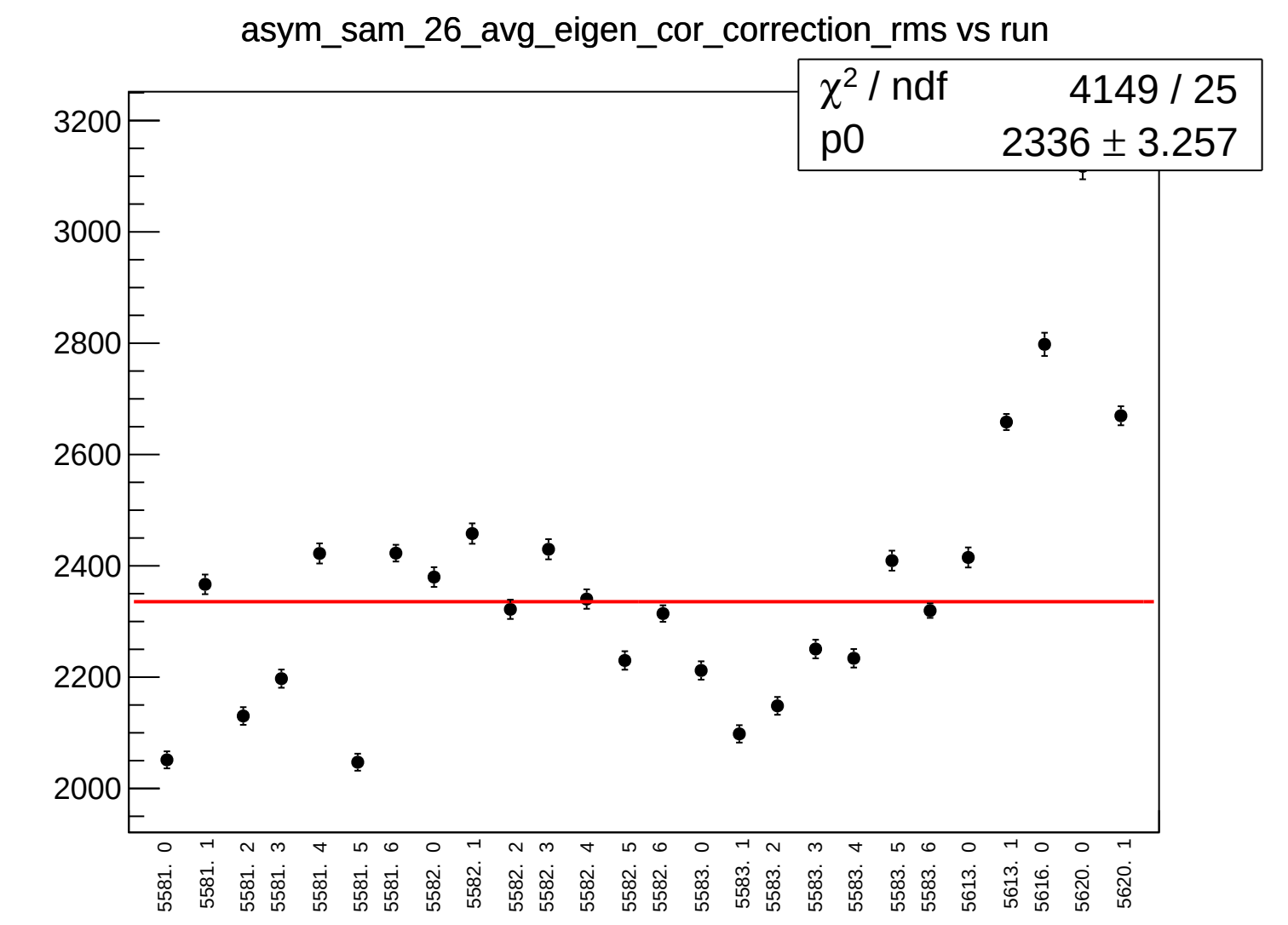

eigen_cor_asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 27.4 / 32
p0 −516.5 ± 424.3
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.85
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

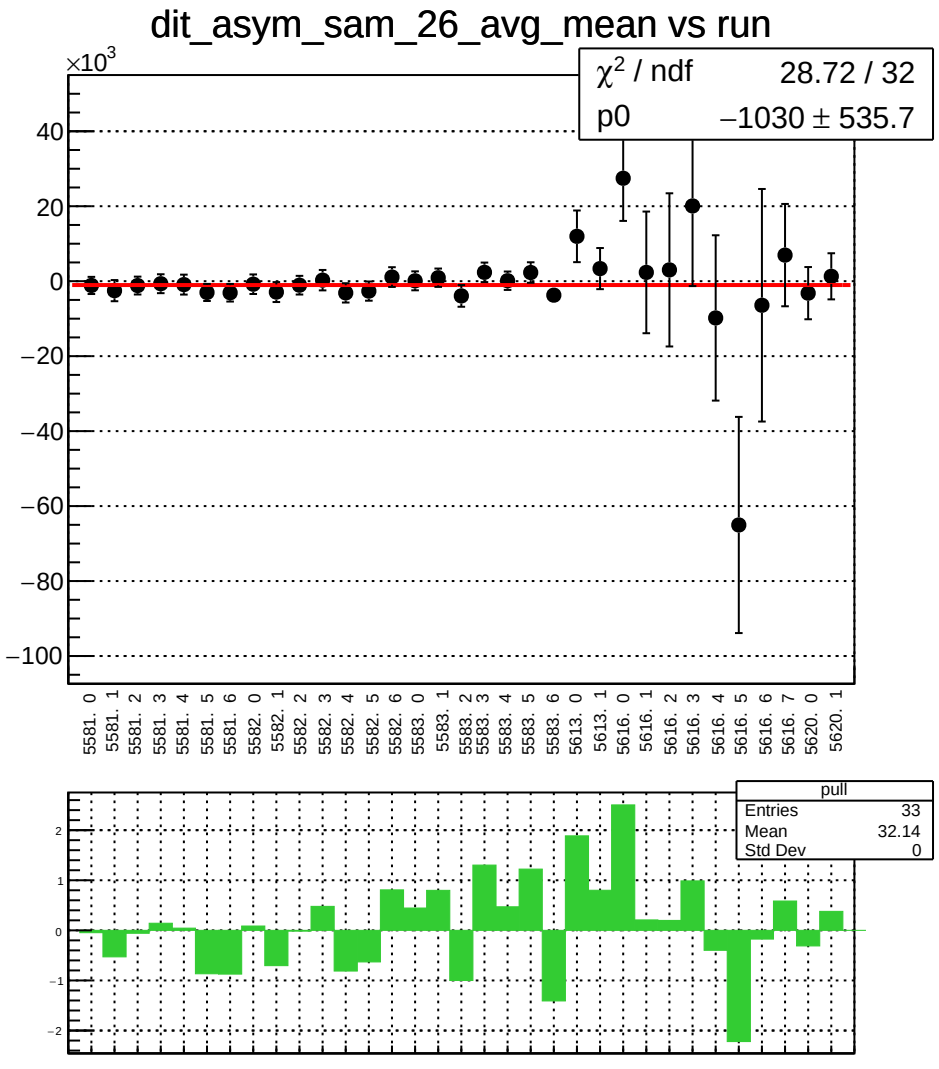

pull1D
Entries 33
Mean 0.1053
Std Dev 0.905
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

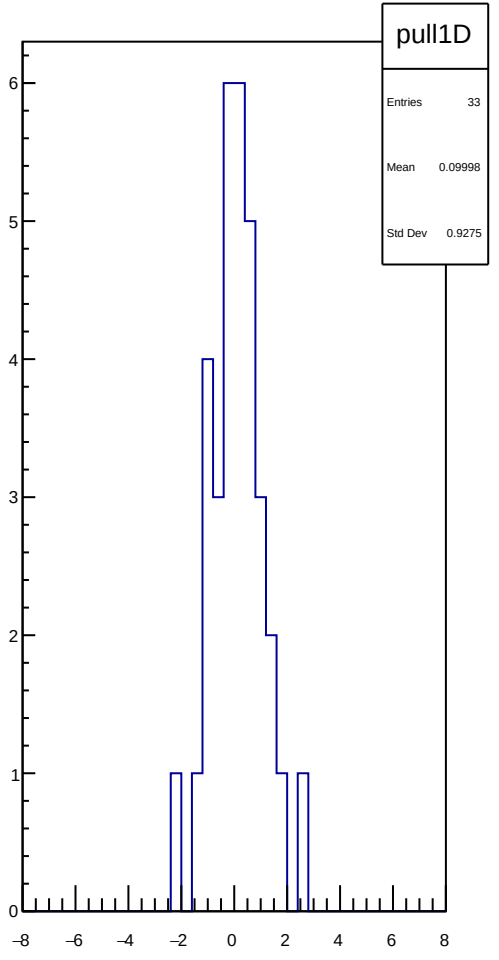

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.587e+05 / 32
p0 210.7 ± 0.3001
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

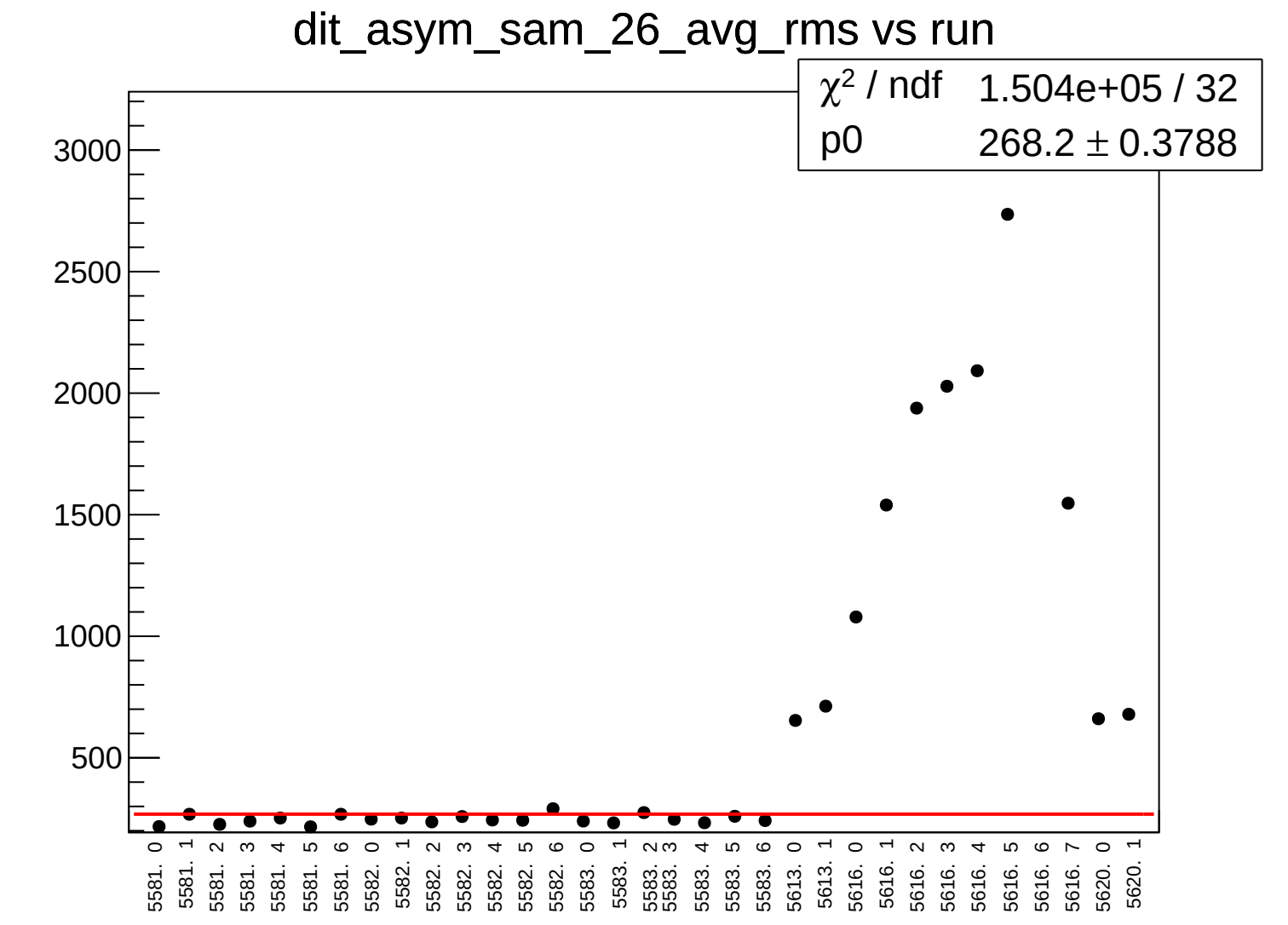

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 30.64 / 25
p0 −2751 ± 4607
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 29.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

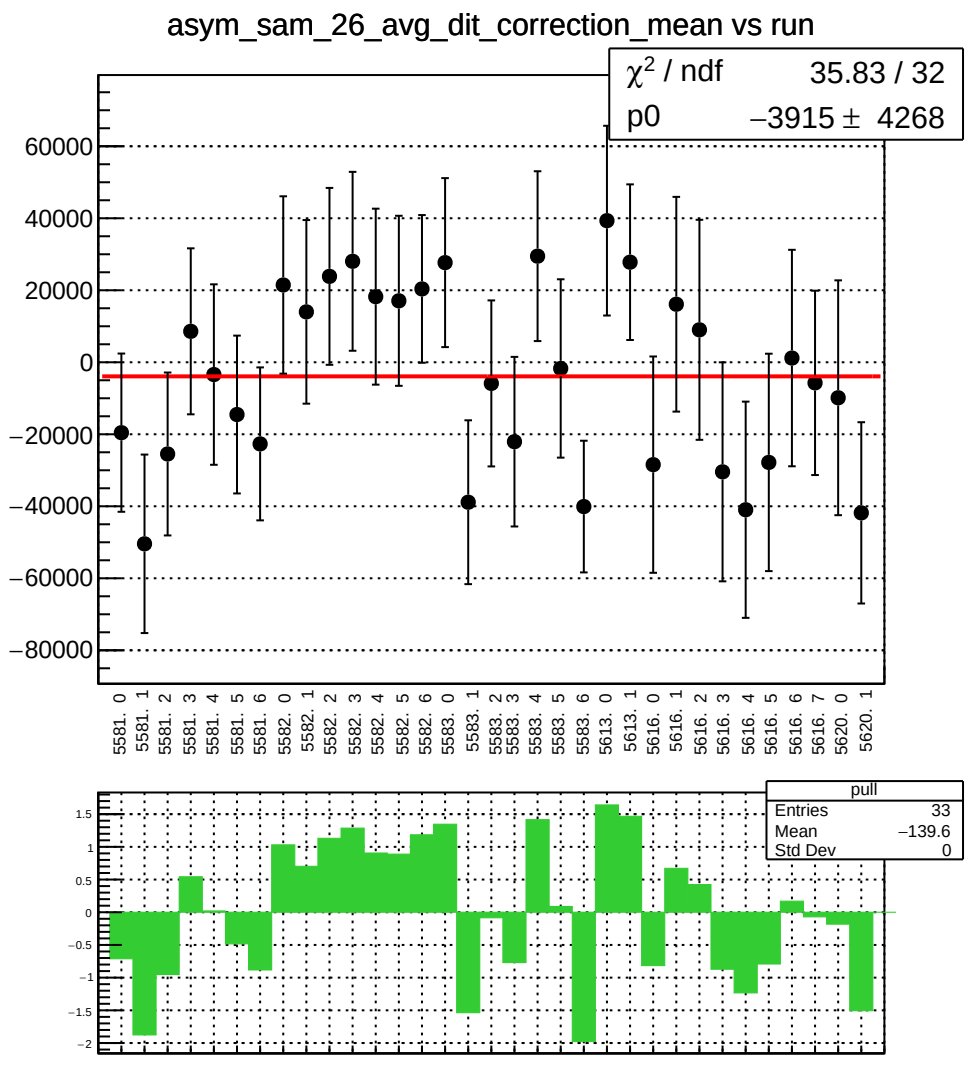

pull1D
Entries 26
Mean 0.02019
Std Dev 1.085
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

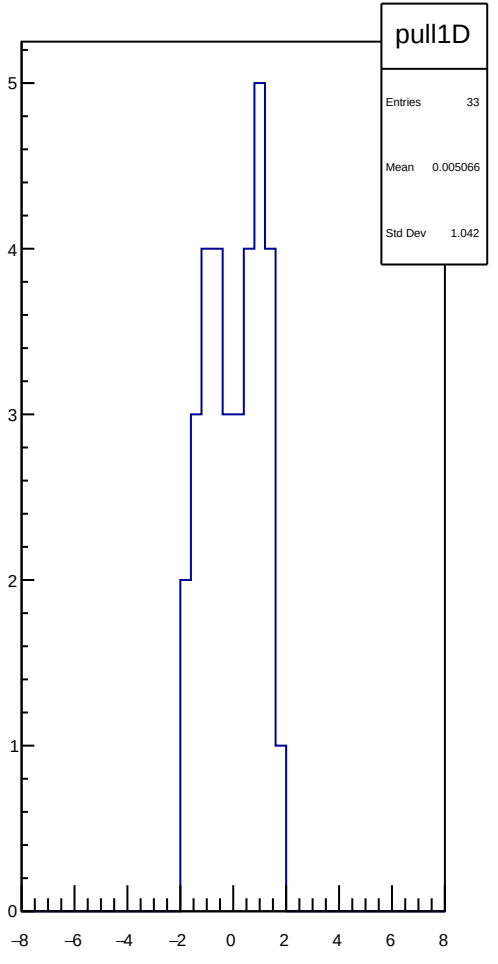

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 4149 / 25
p0 2336 ± 3.257
3200
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

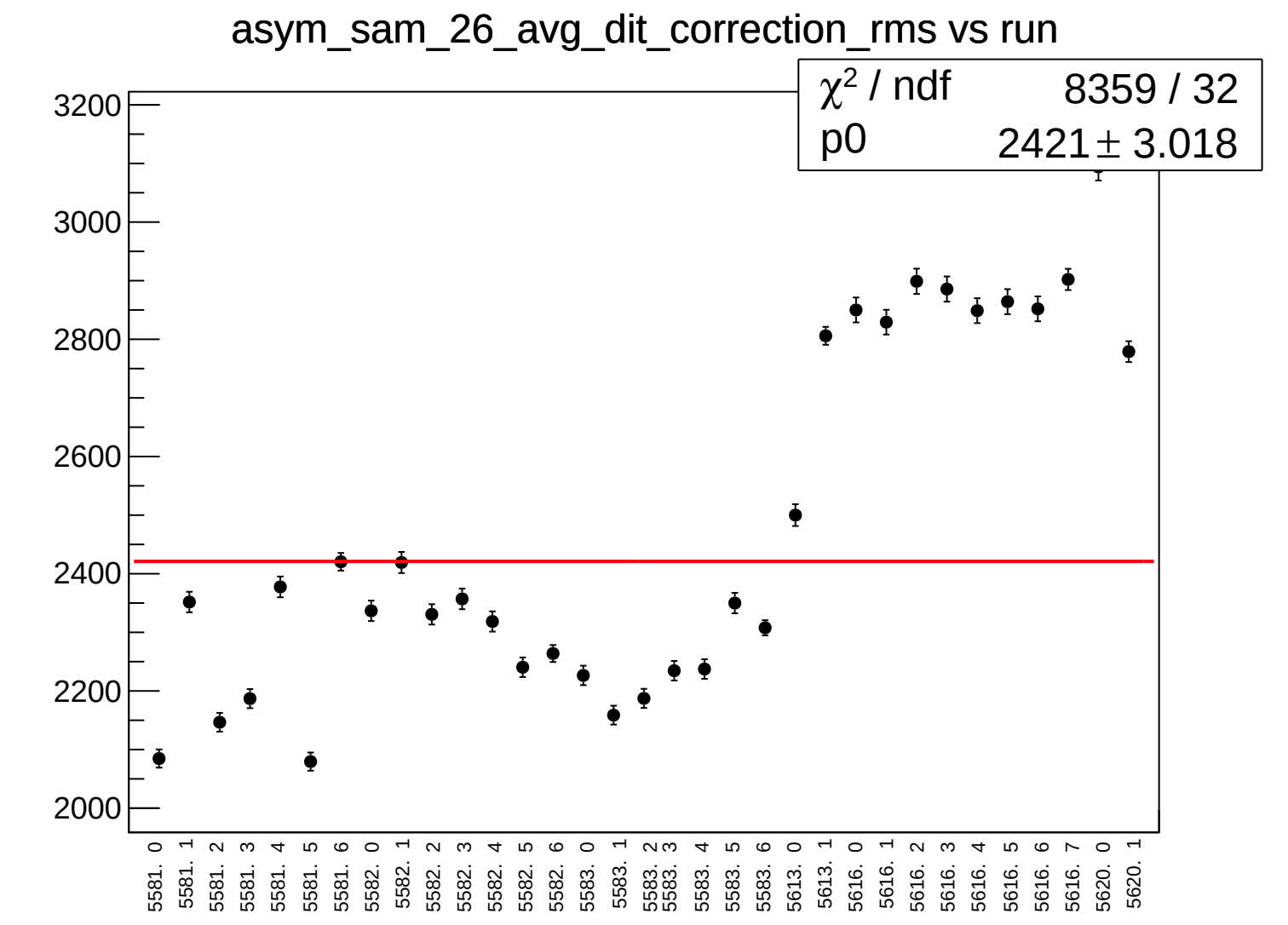

dit_asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 28.72 / 32
p0 −1030 ± 535.7
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 32.14
Std Dev 0
2
1
0
−1
−2

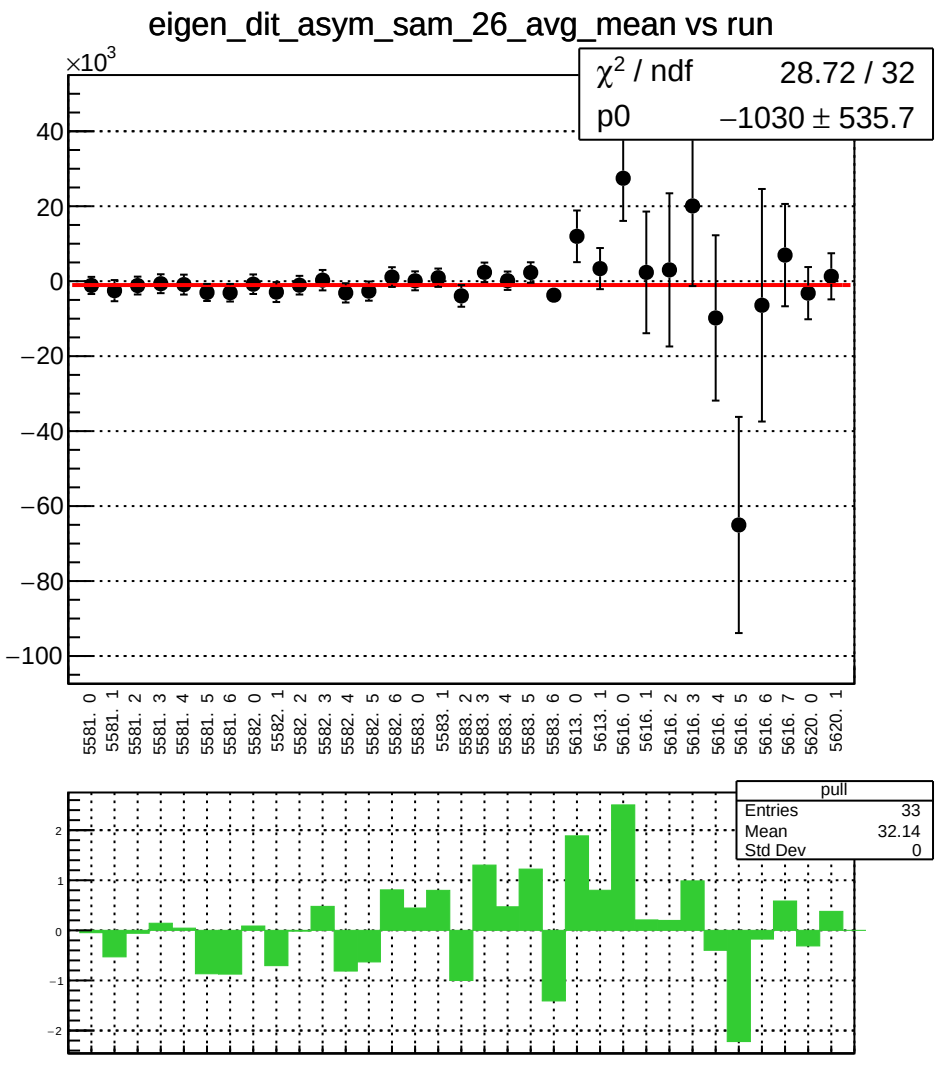

pull1D
Entries 33
Mean 0.09998
Std Dev 0.9275
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

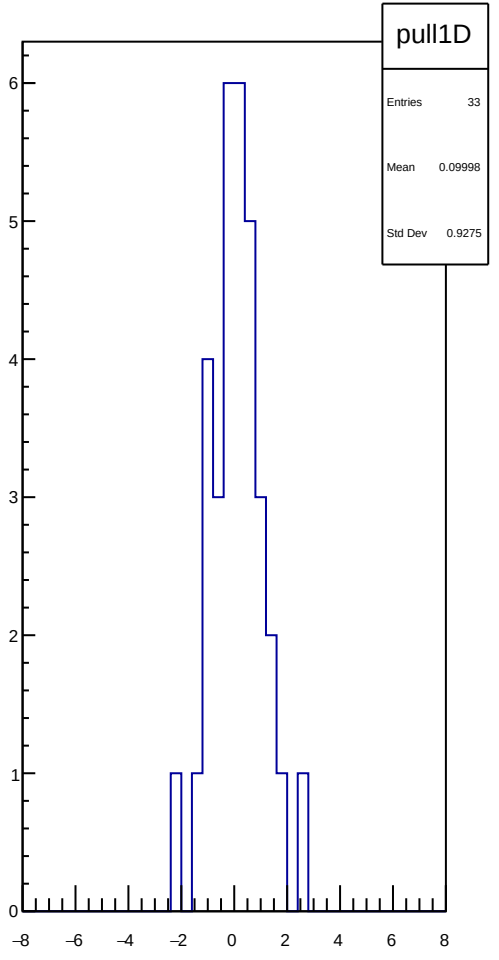

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.504e+05 / 32
p0 268.2 ± 0.3788
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

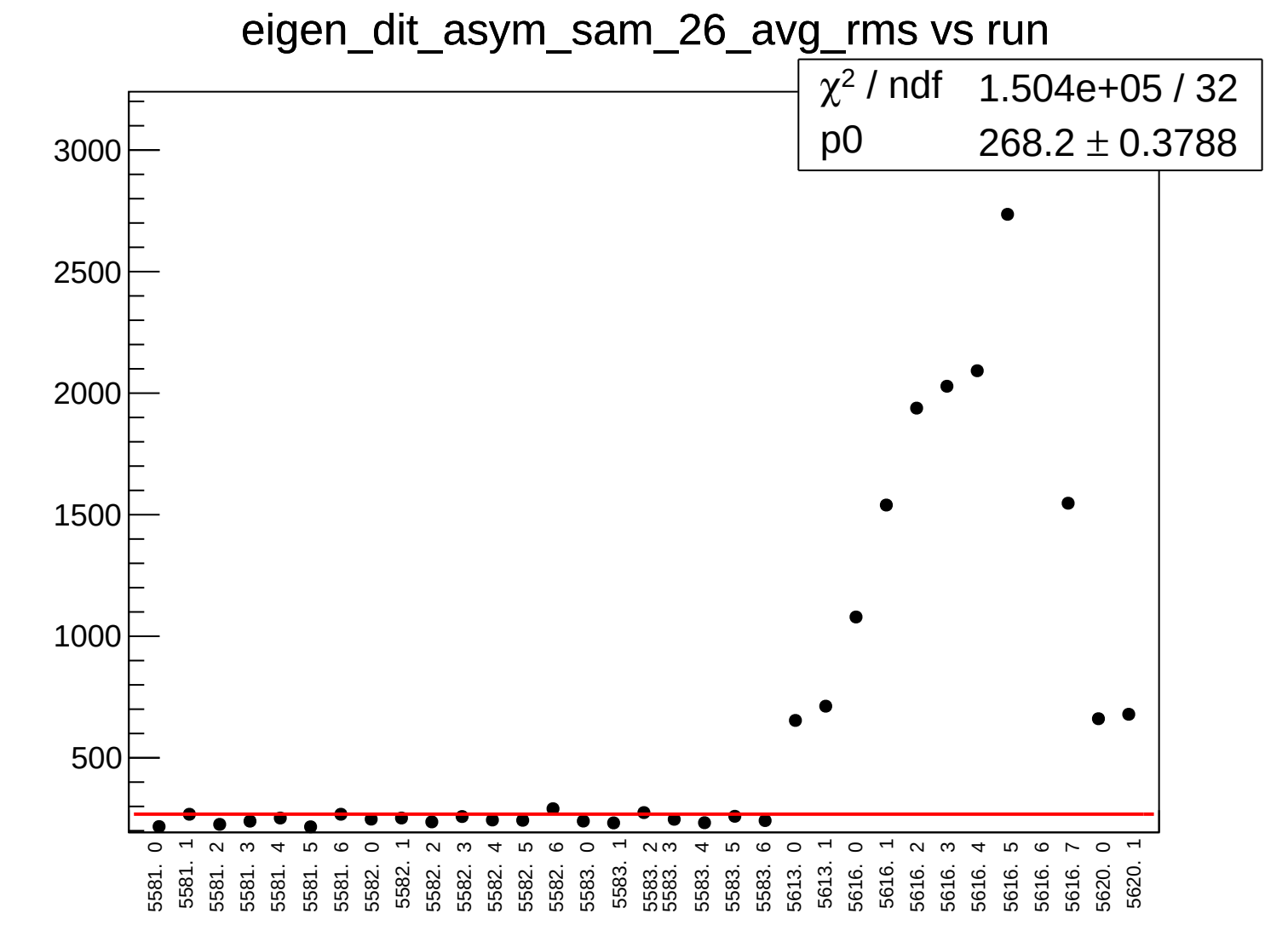

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 35.83 / 32
p0 −3915 ± 4268
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −139.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

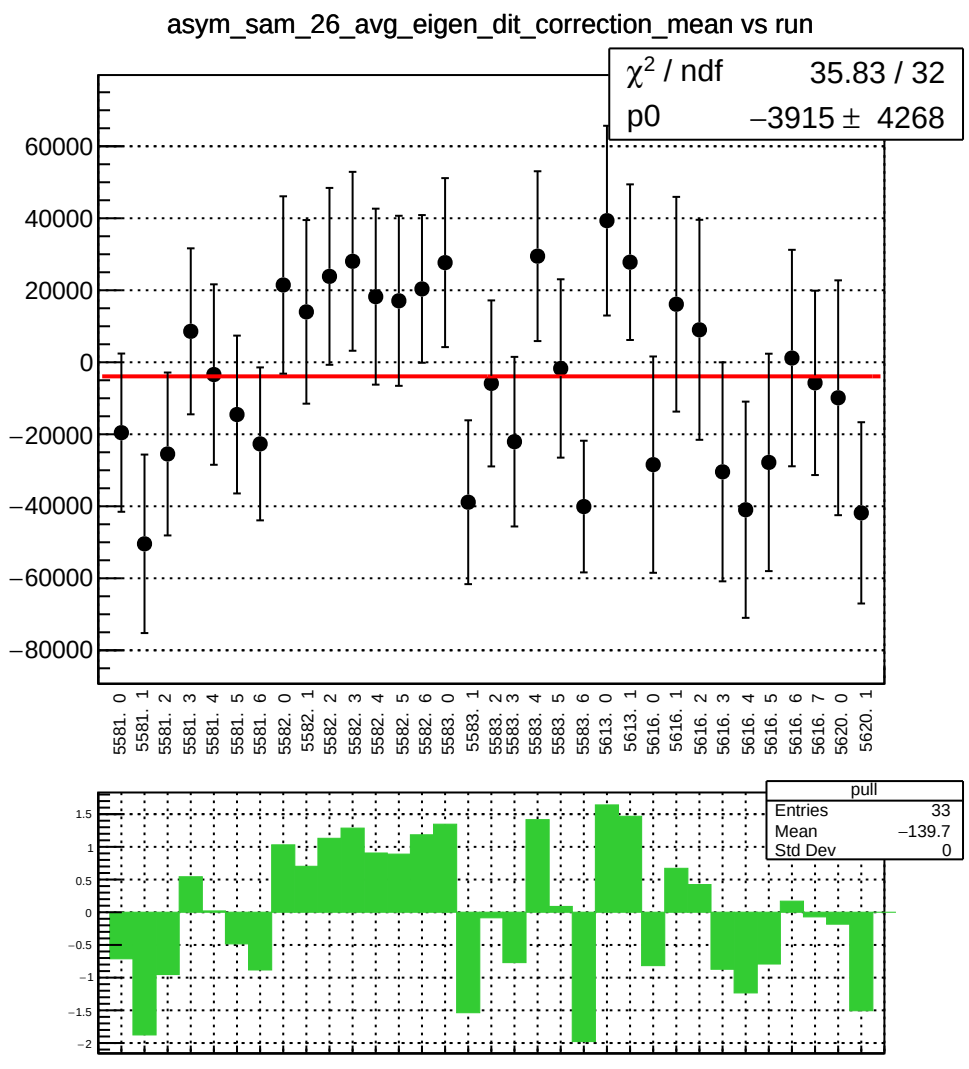

pull1D
Entries 33
Mean 0.005066
Std Dev 1.042
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

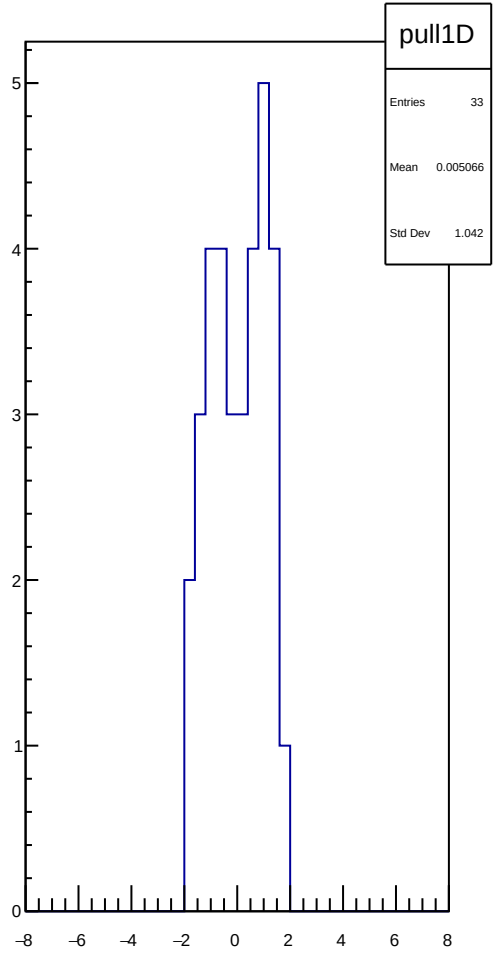

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 8359 / 32
p0 2421 ± 3.018
3200
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

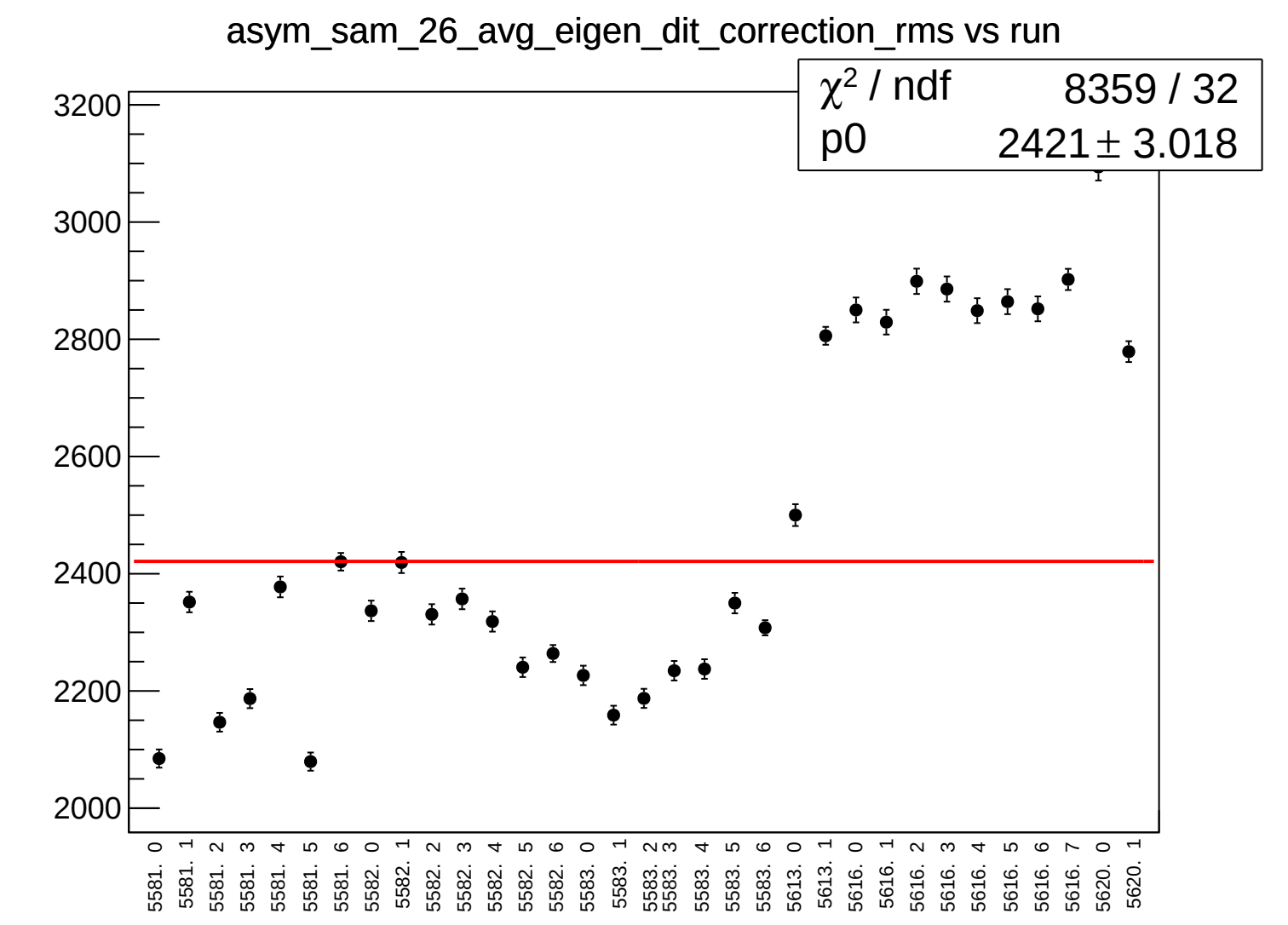

eigen_dit_asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 28.72 / 32
p0 −1030 ± 535.7
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 32.14
Std Dev 0
2
1
0
−1
−2

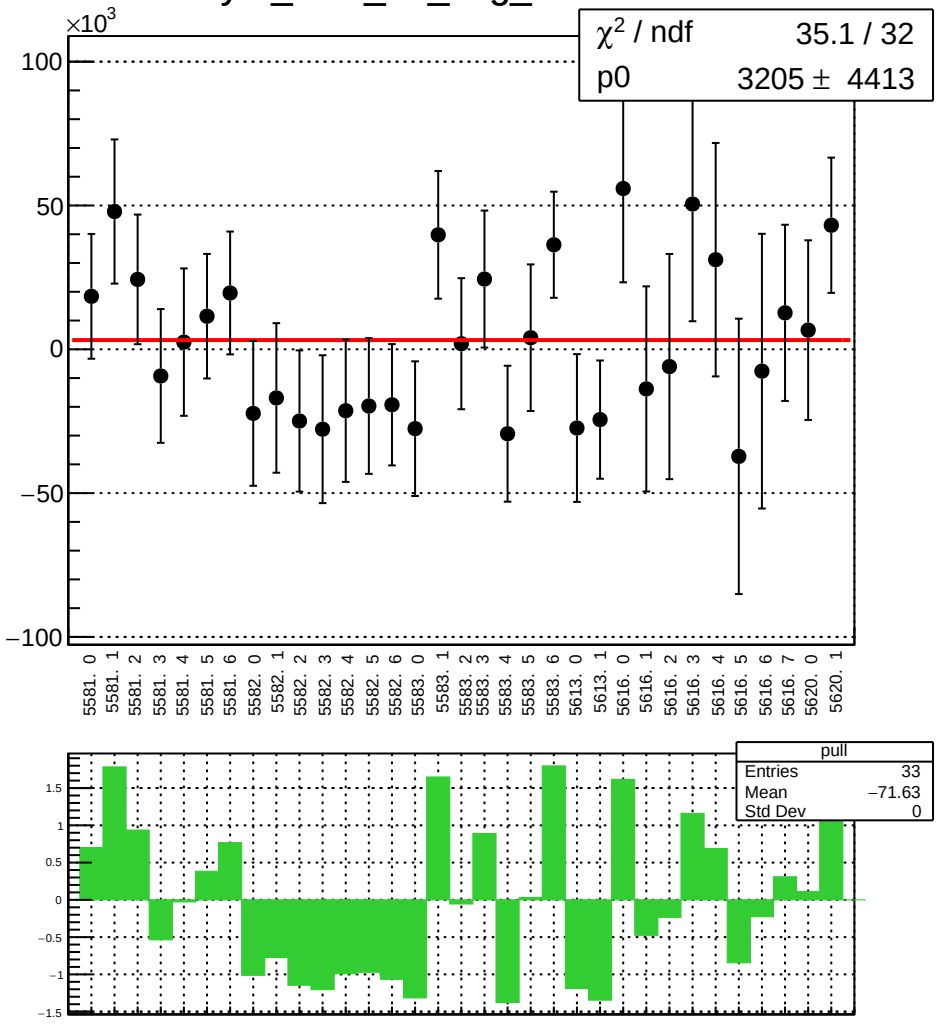

pull1D
Entries 33
Mean 0.09998
Std Dev 0.9275
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

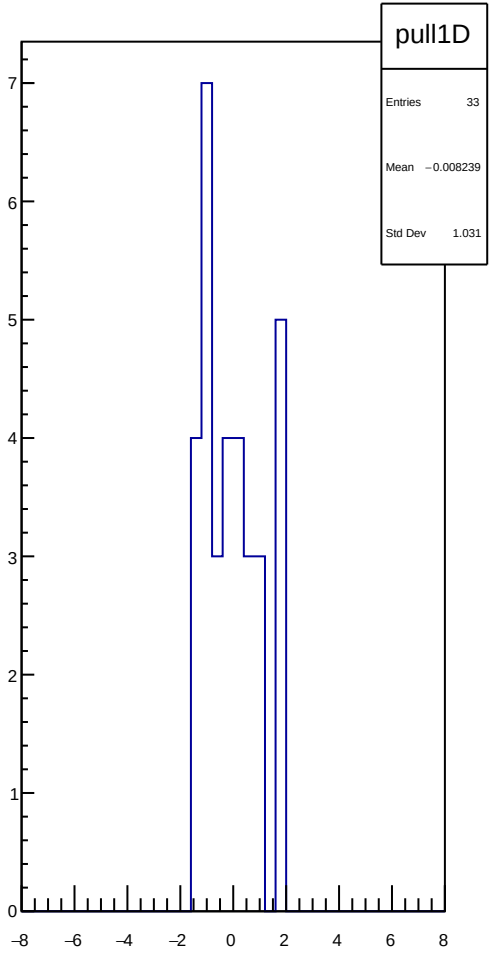

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.504e+05 / 32
p0 268.2 ± 0.3788
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

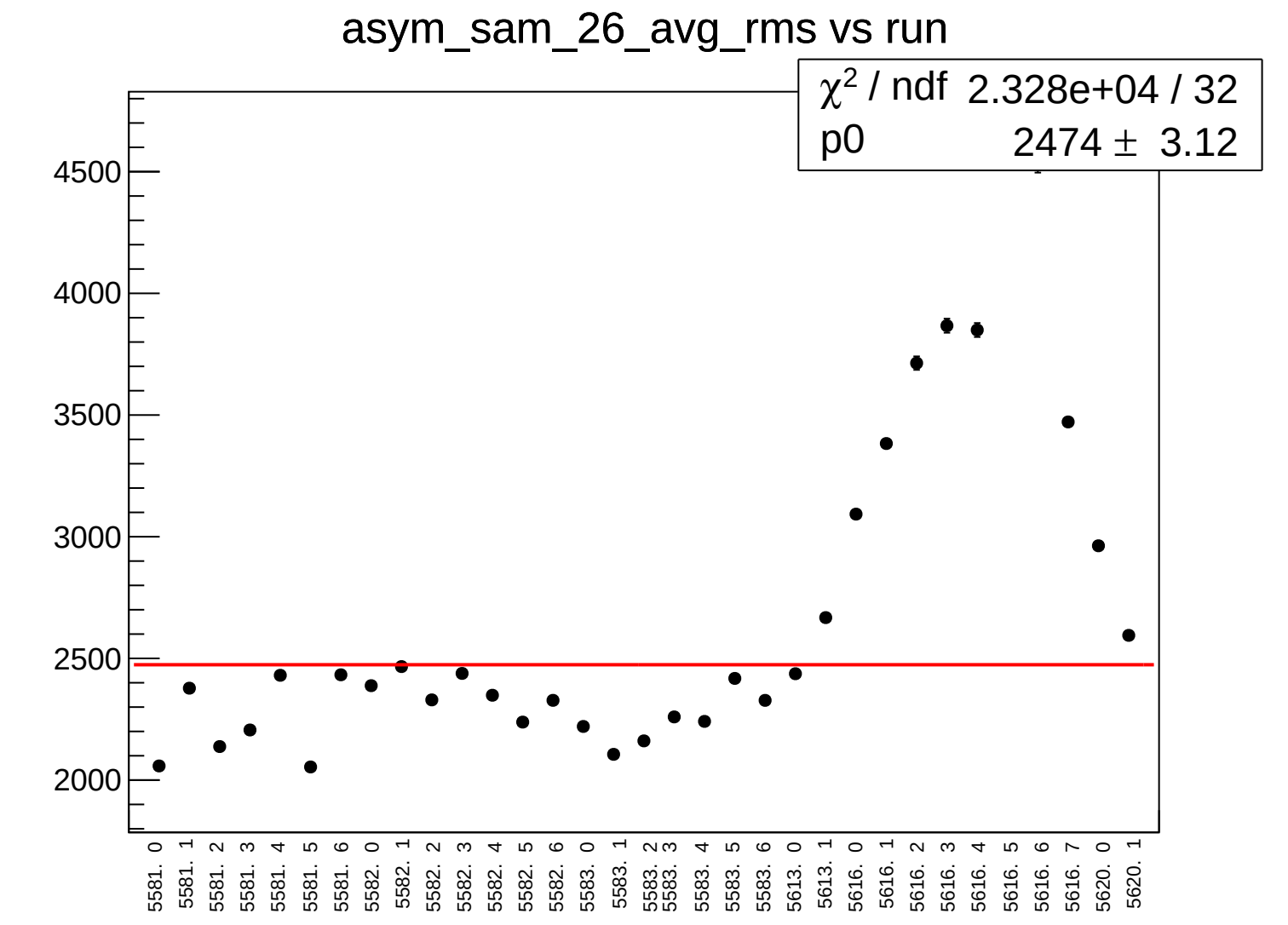

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 35.83 / 32
p0 −3915 ± 4268
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −139.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

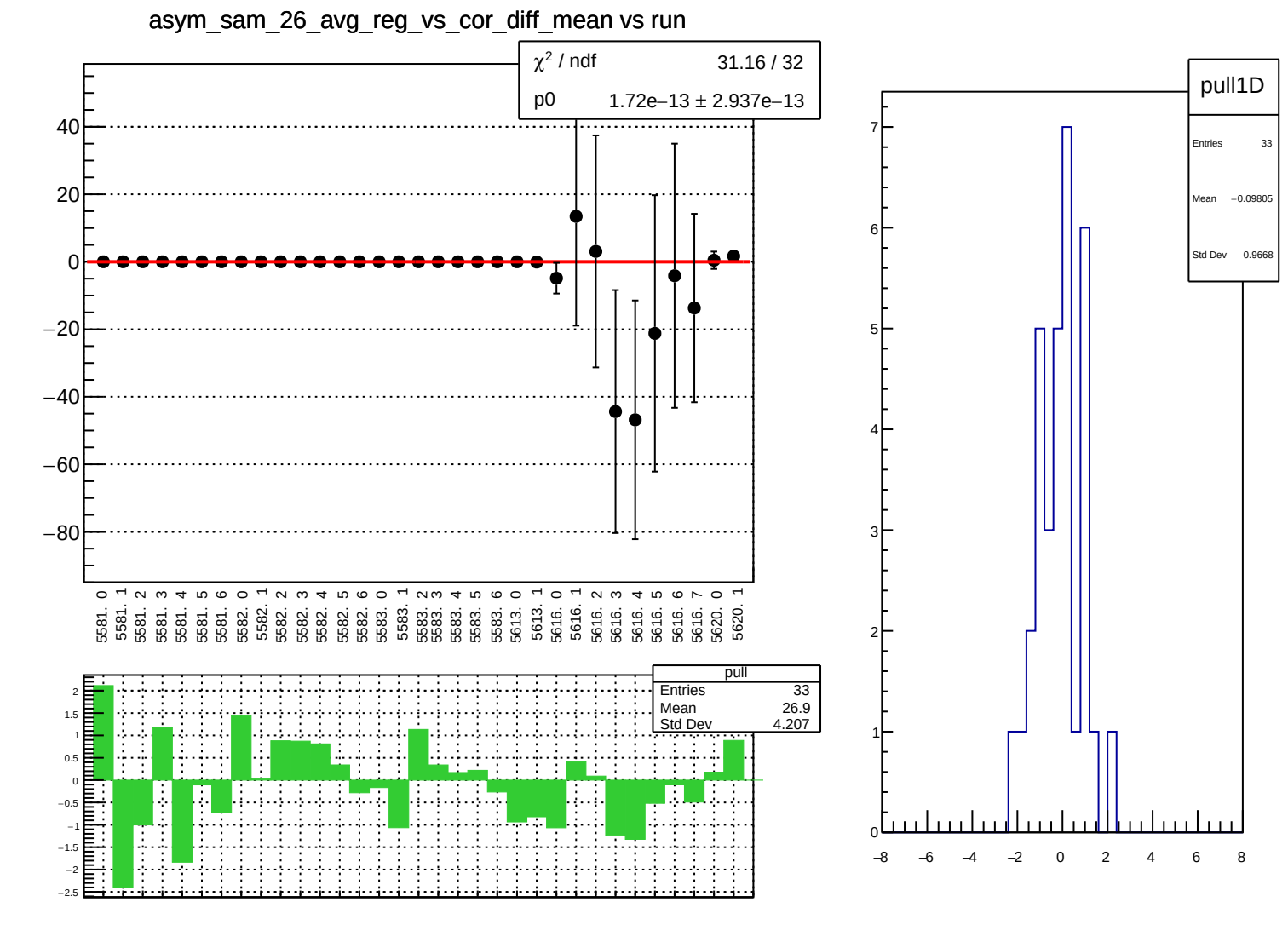

pull1D
Entries 33
Mean 0.005066
Std Dev 1.042
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

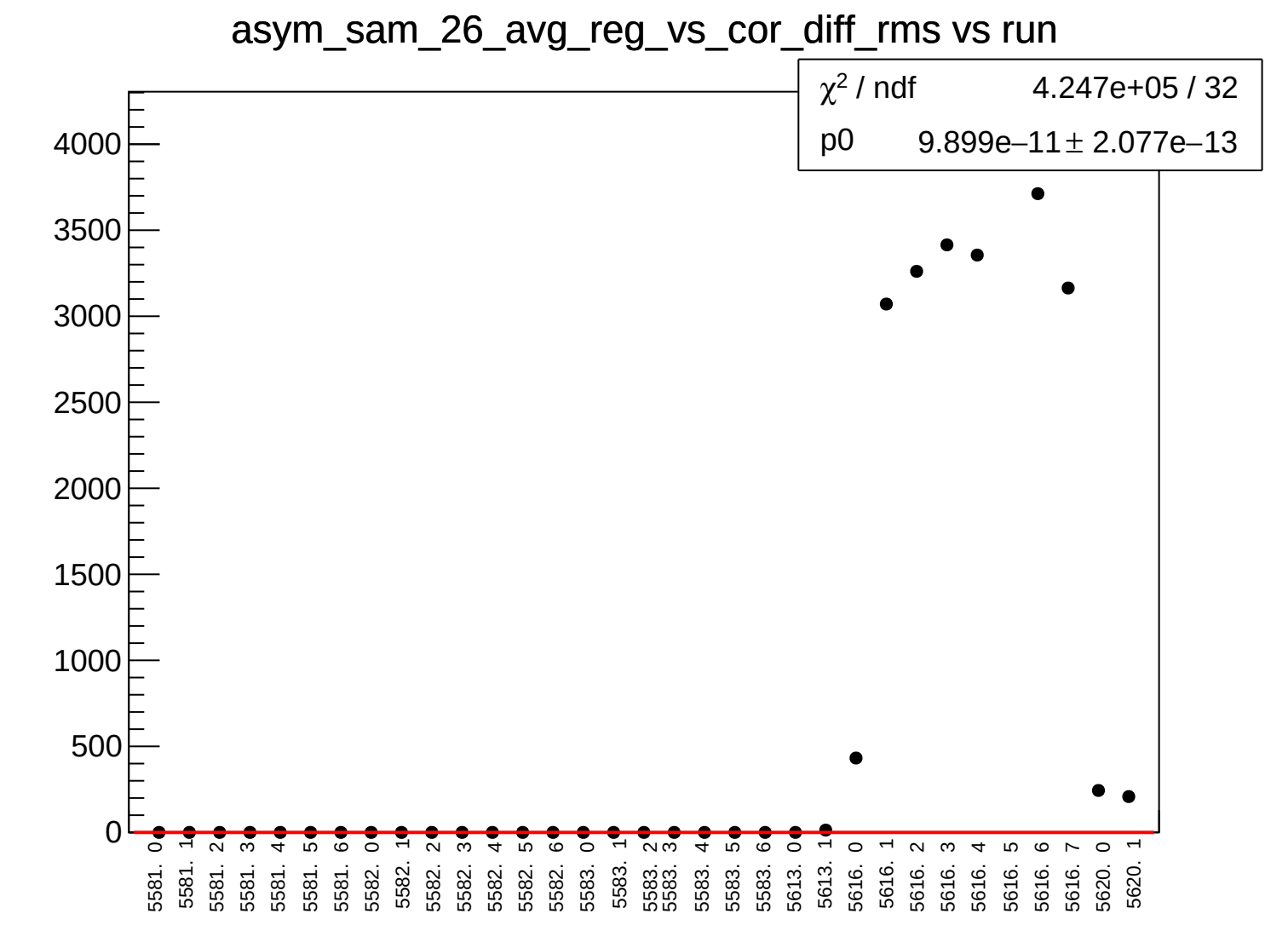

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 8359 / 32
p0 2421 ± 3.018
3200
3000
2800
2600
2400
2200
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

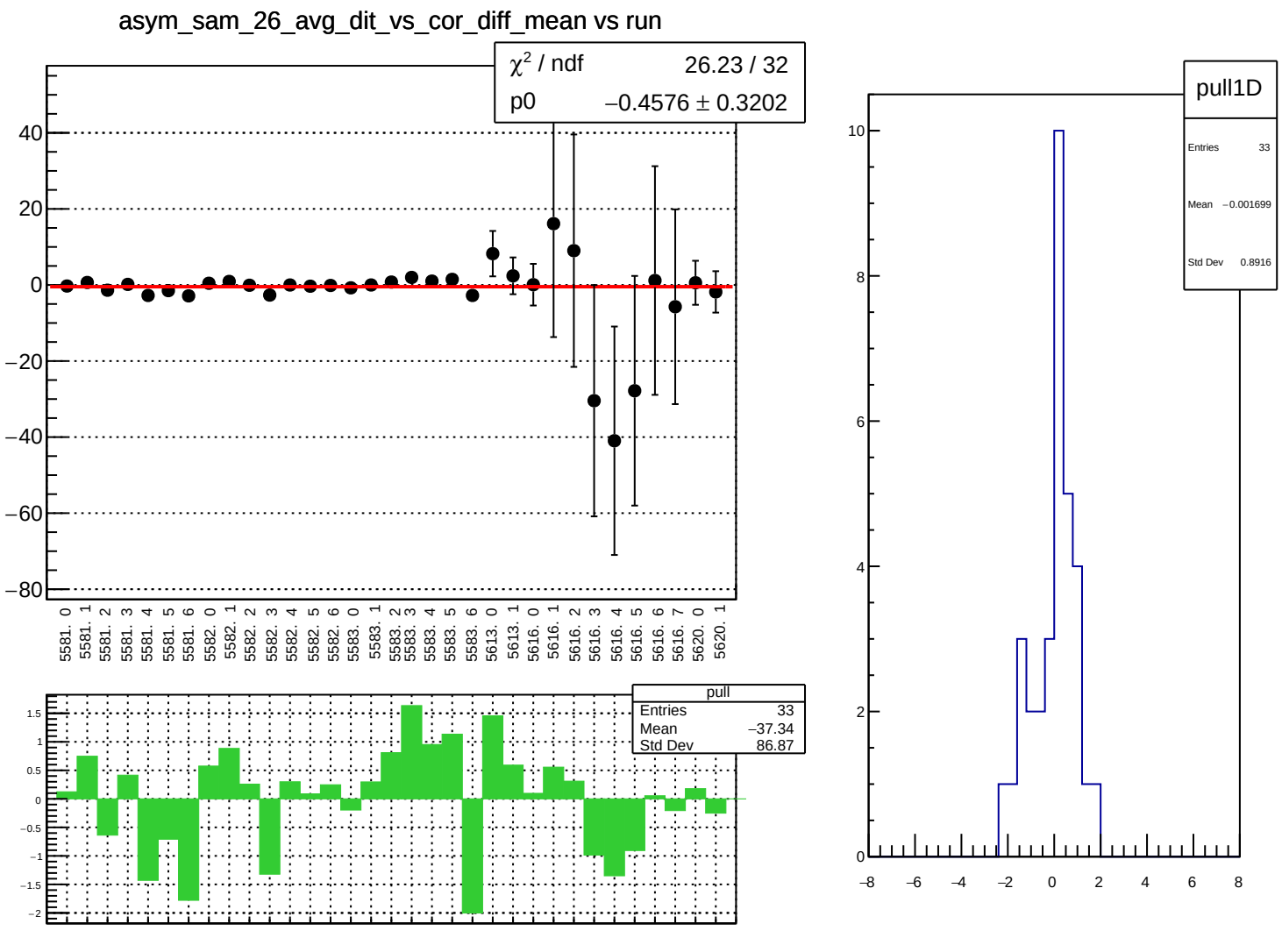

asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 35.1 / 32
p0 3205 ± 4413
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −71.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

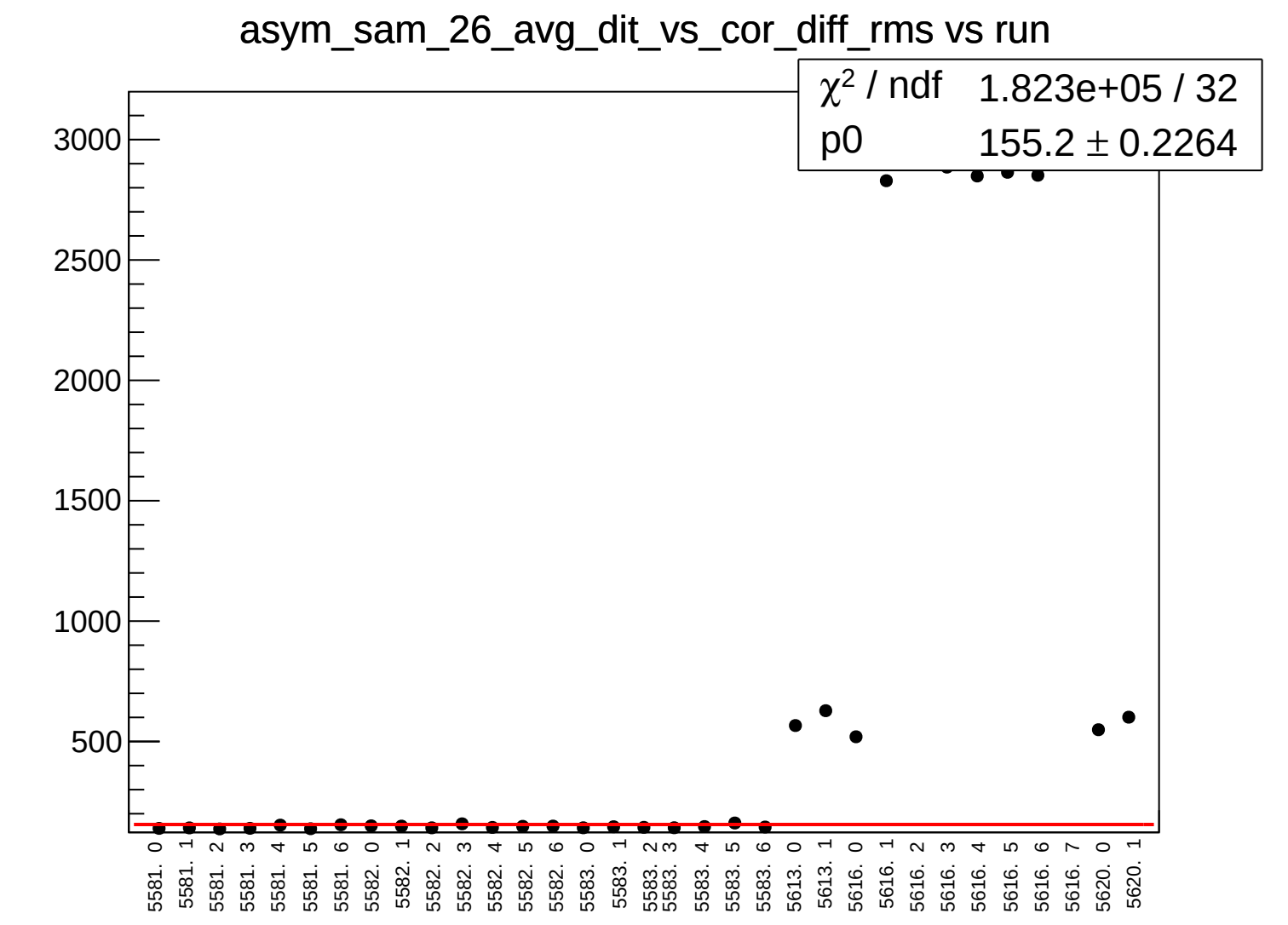

pull1D
Entries 33
Mean −0.008239
Std Dev 1.031
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

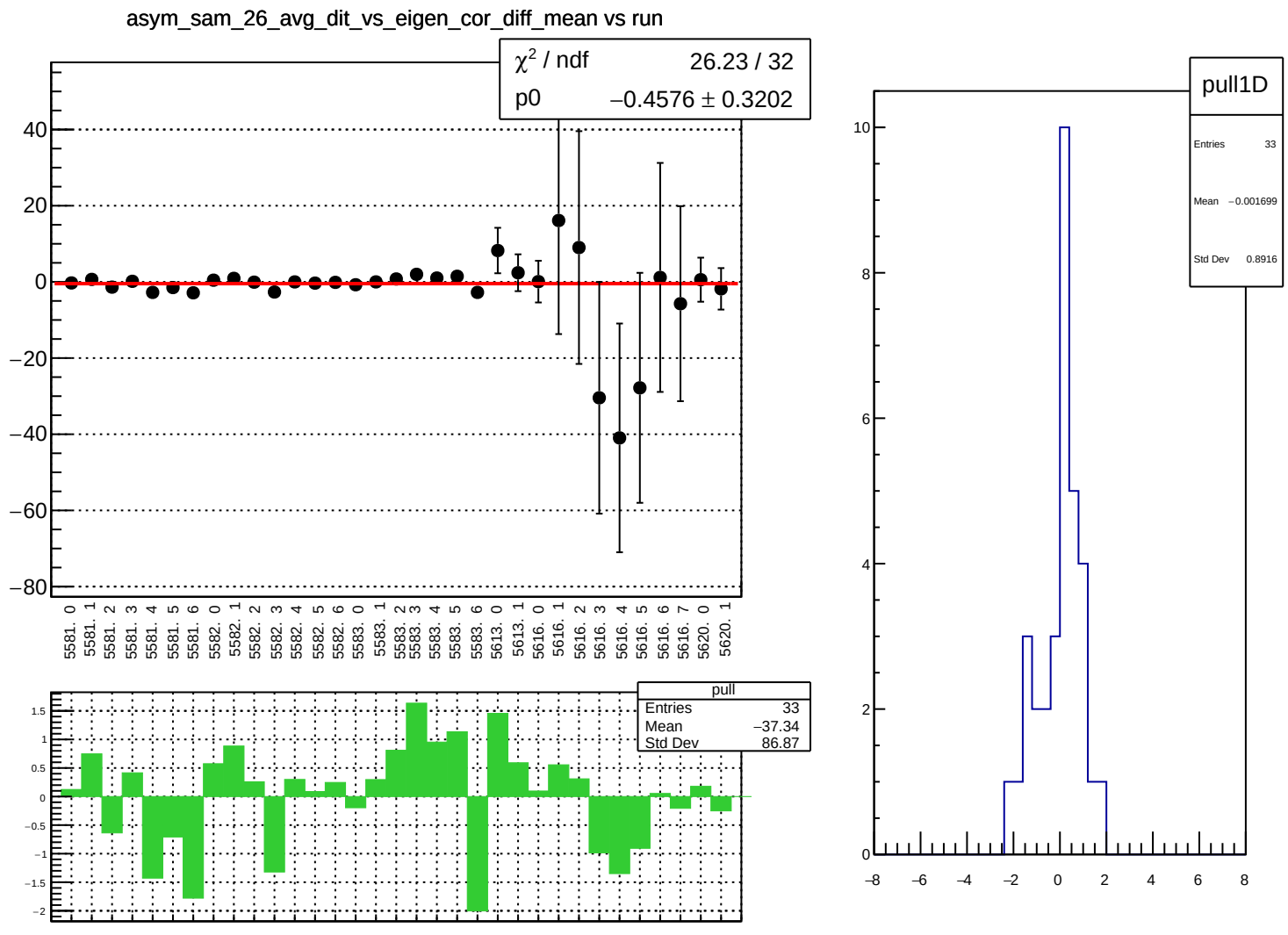

asym_sam_26_avg_rms vs run
χ² / ndf 2.328e+04 / 32
p0 2474 ± 3.12
4500
4000
3500
3000
2500
2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

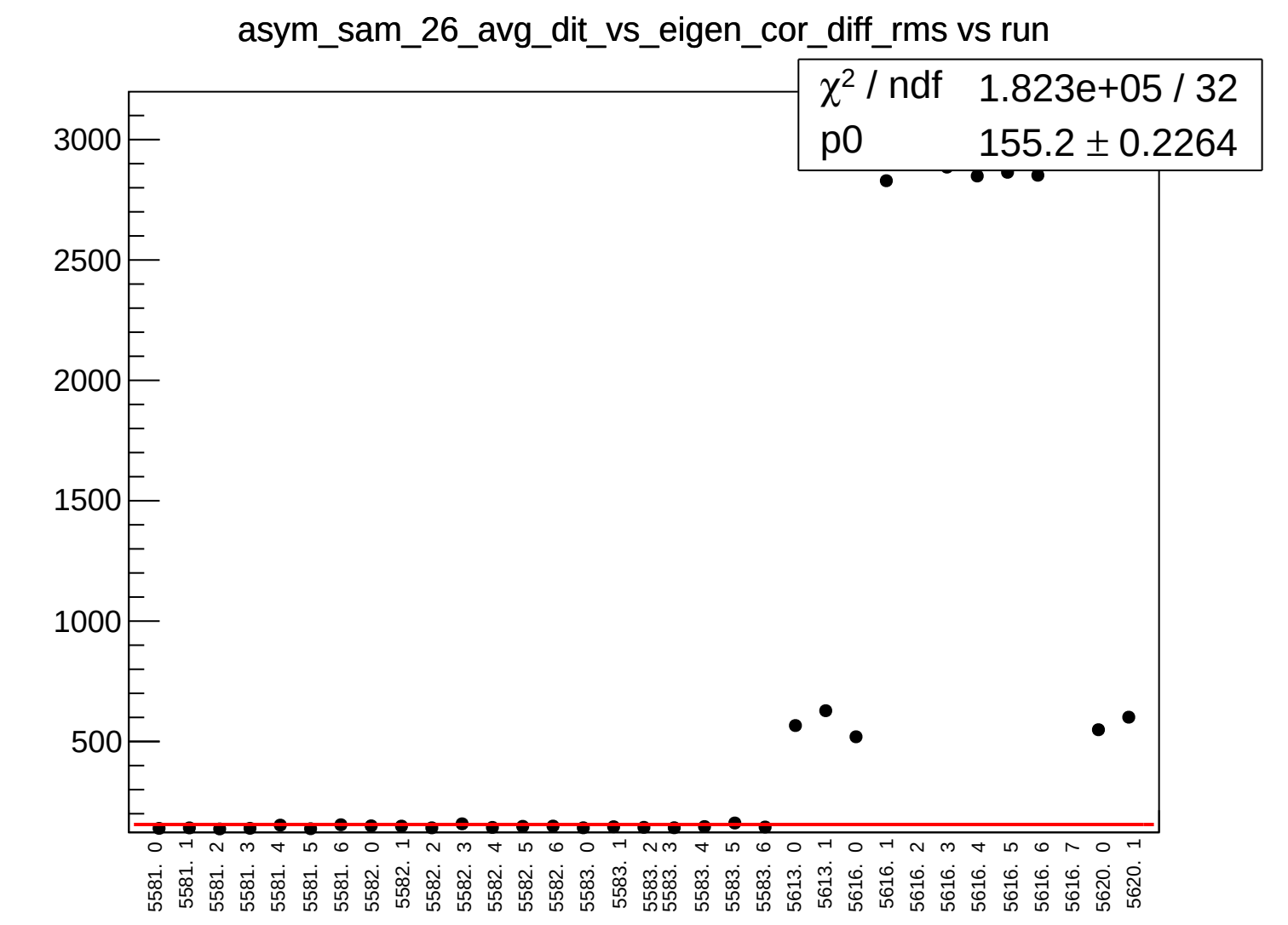

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 31.16 / 32
p0 1.72e−13 ± 2.937e−13
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.9
Std Dev 4.207
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.09805
Std Dev 0.9668
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

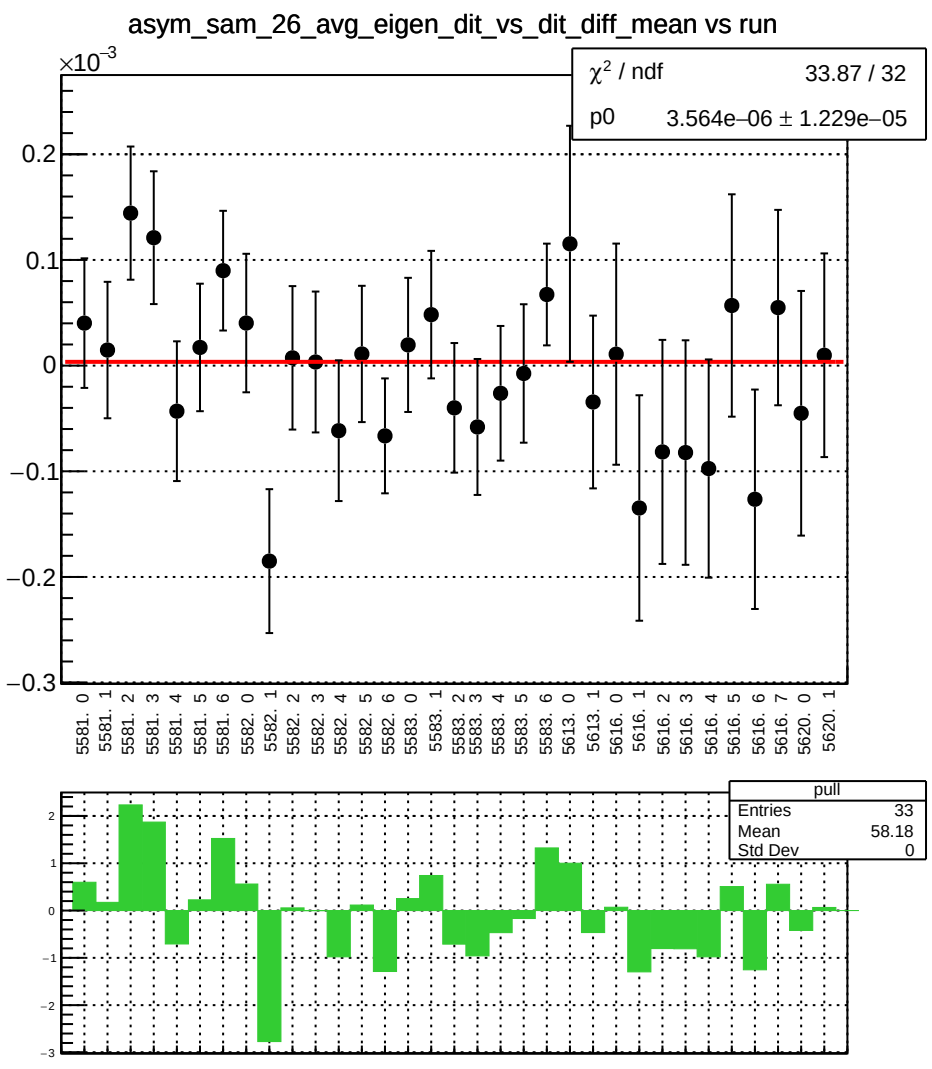

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.247e+05 / 32
p0 9.899e−11 ± 2.077e−13
4000
3500
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

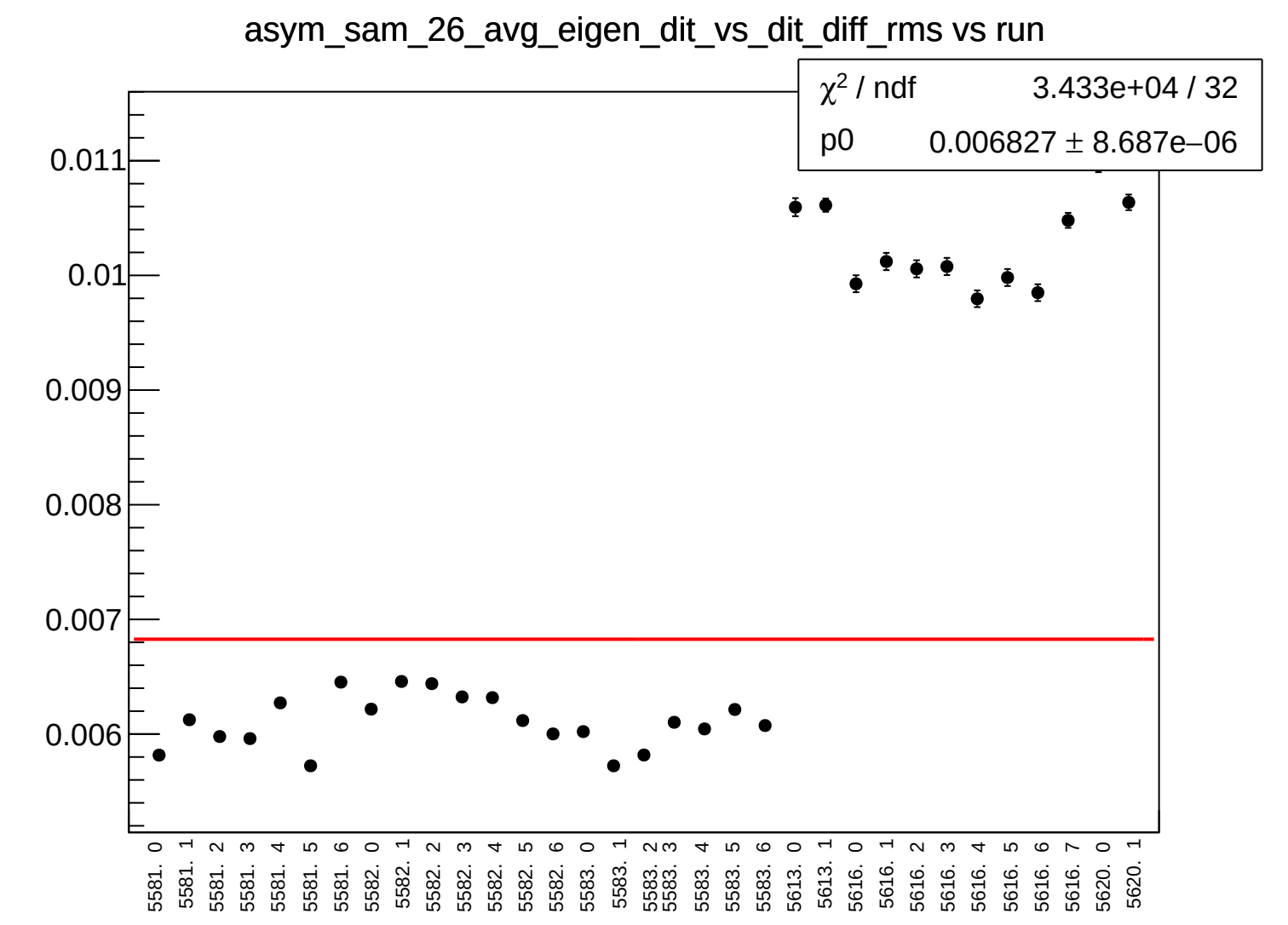

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 26.23 / 32
p0 −0.4576 ± 0.3202
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −37.34
Std Dev 86.87
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.001699
Std Dev 0.8916
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

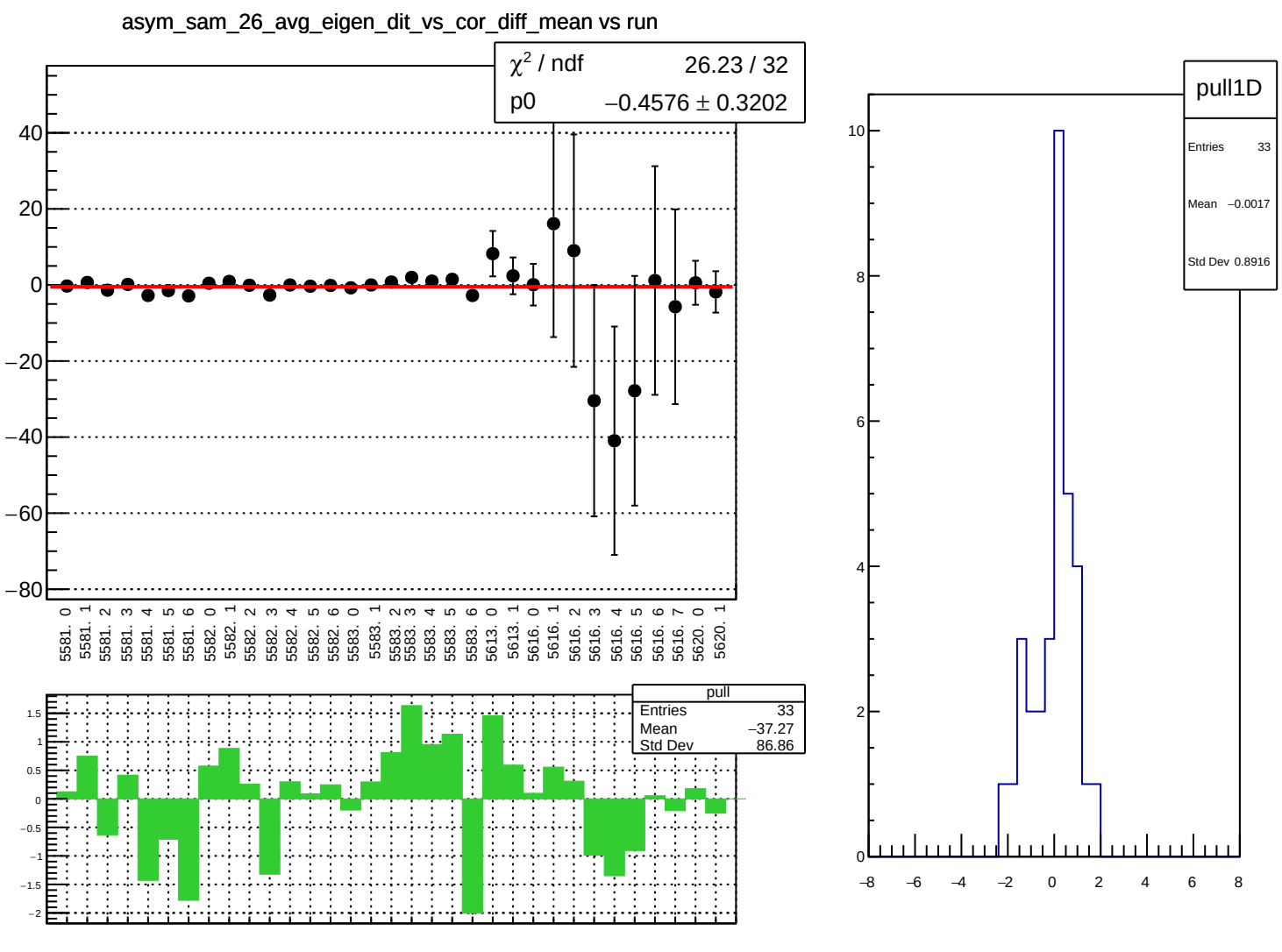

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.823e+05 / 32
p0 155.2 ± 0.2264
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

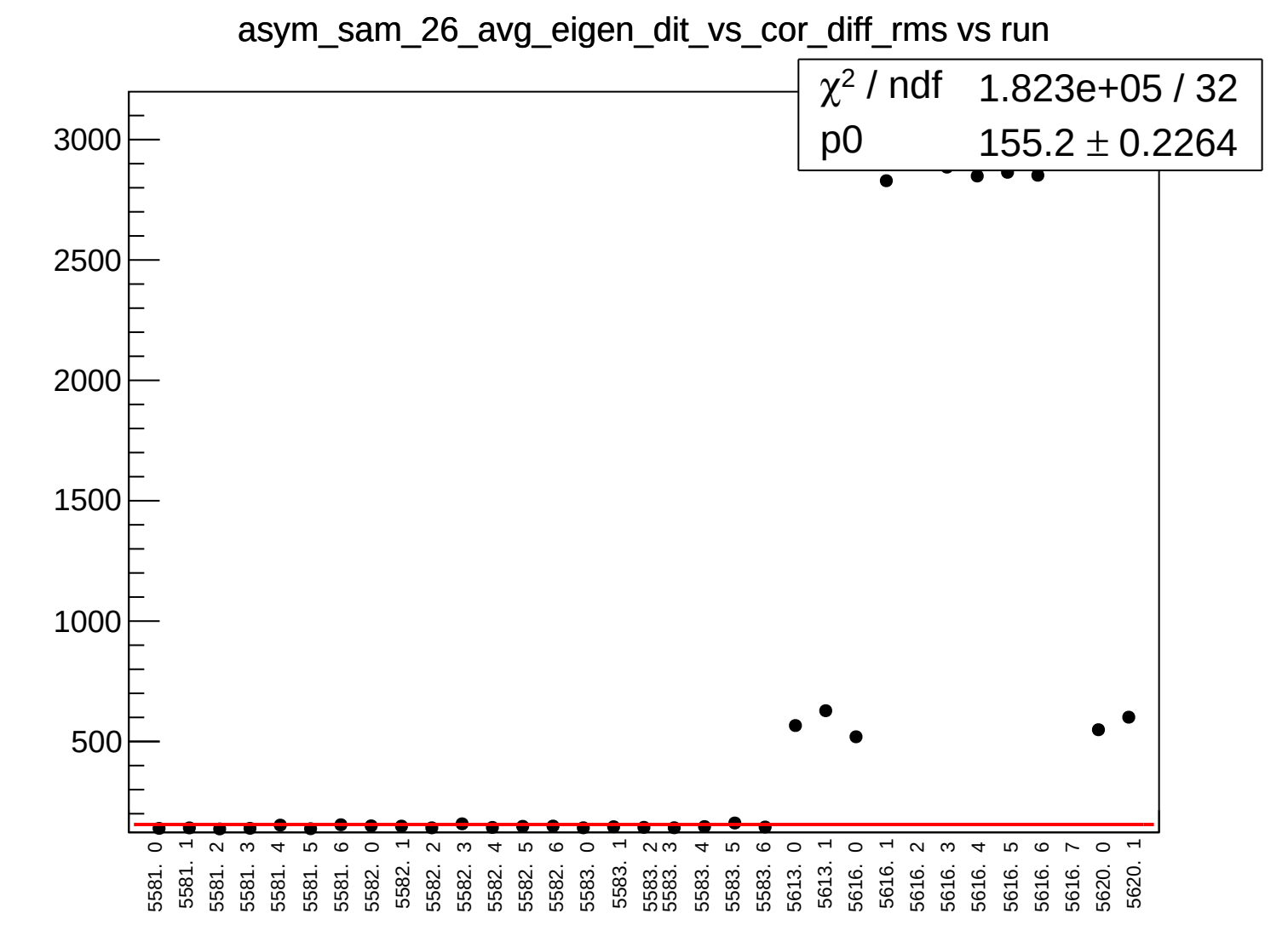

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.23 / 32
p0 −0.4576 ± 0.3202
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −37.34
Std Dev 86.87
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.001699
Std Dev 0.8916
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

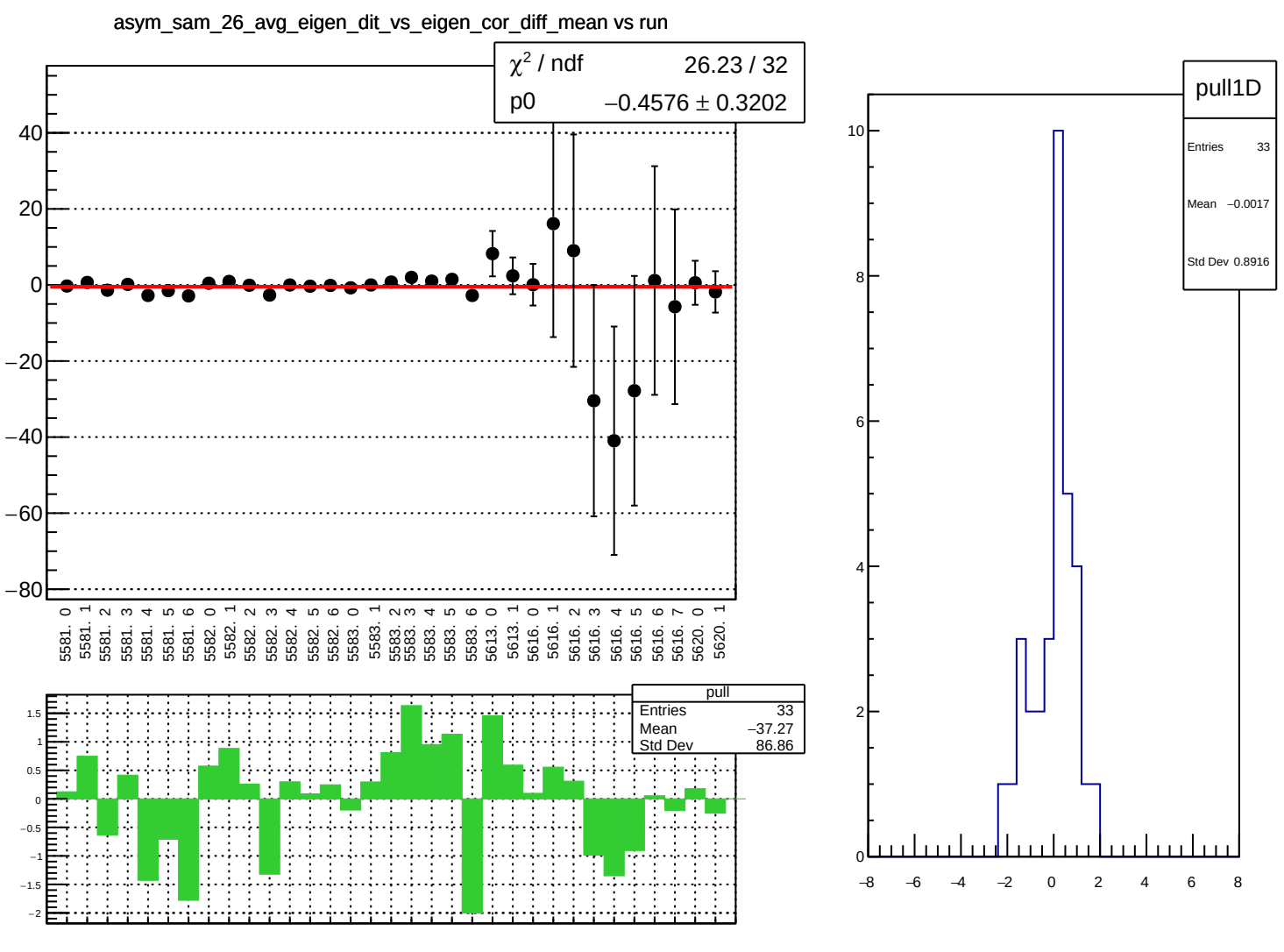

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.823e+05 / 32
p0 155.2 ± 0.2264
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

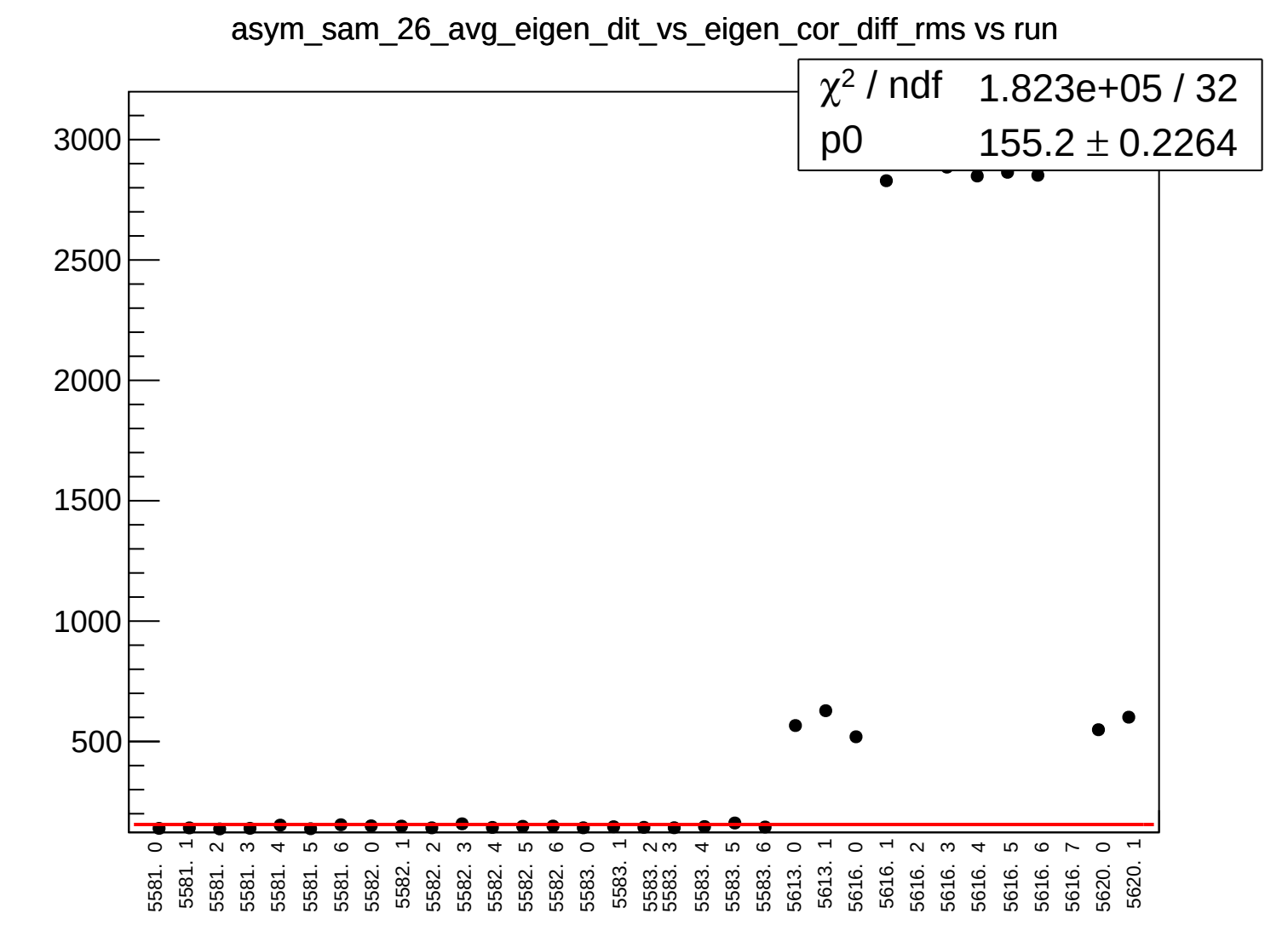

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.87 / 32
p0 3.564e−06 ± 1.229e−05
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 58.18
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean −0.0667
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

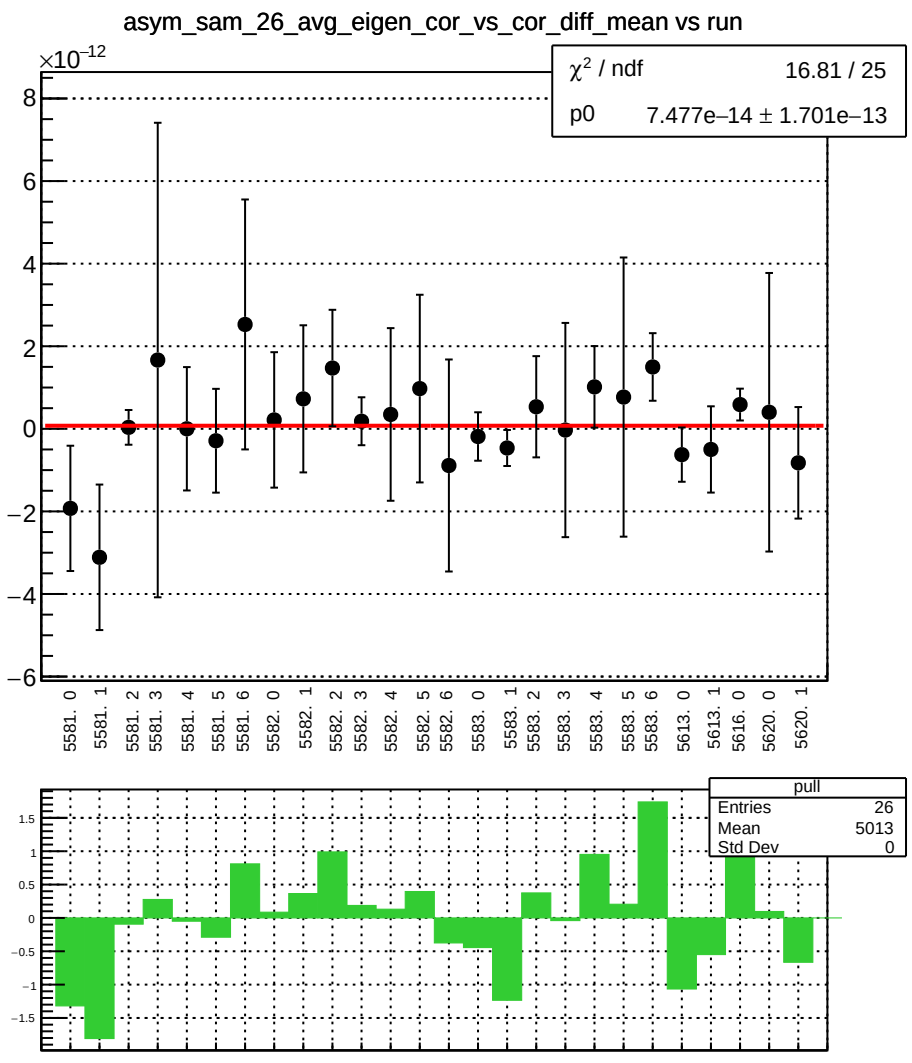

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.433e+04 / 32
p0 0.006827 ± 8.687e−06
0.011
0.01
0.009
0.008
0.007
0.006
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

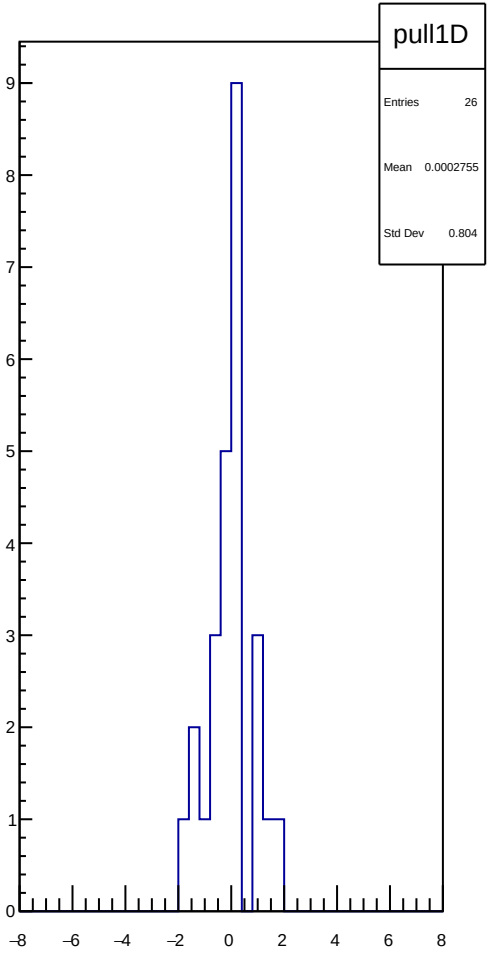

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 26.23 / 32
p0 −0.4576 ± 0.3202
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −37.27
Std Dev 86.86
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.0017
Std Dev 0.8916
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

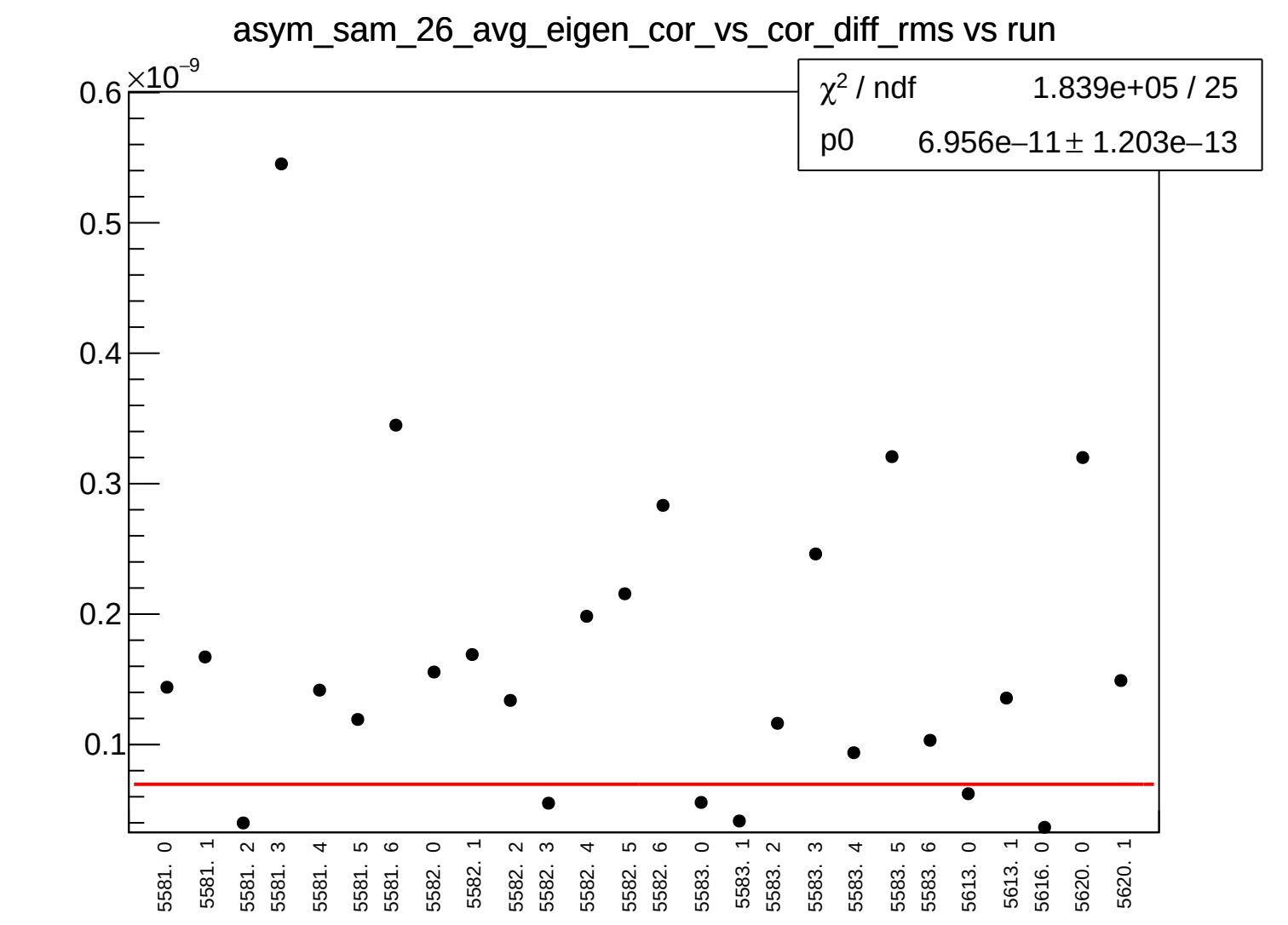

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.823e+05 / 32
p0 155.2 ± 0.2264
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

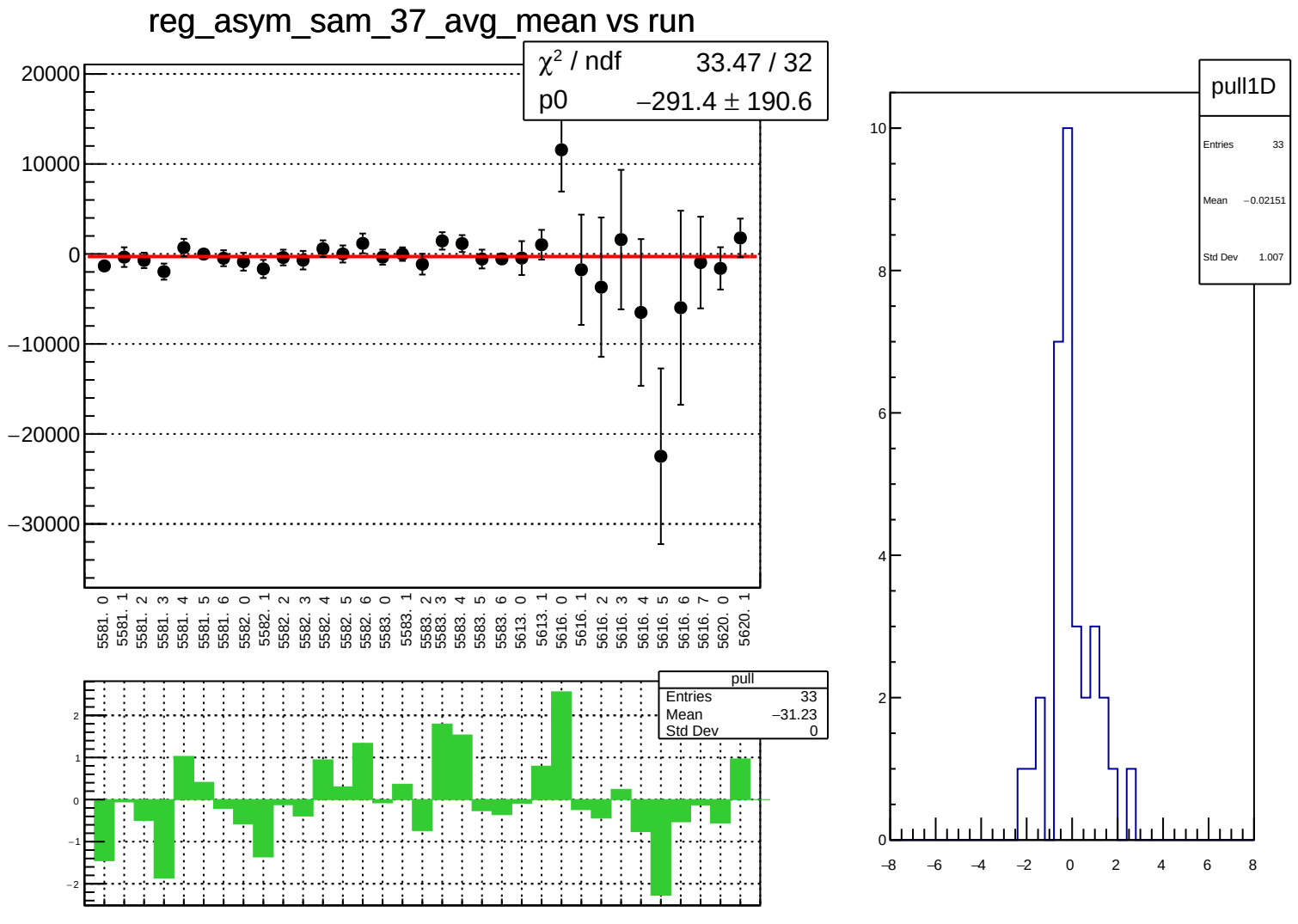

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 26.23 / 32
p0 −0.4576 ± 0.3202
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −37.27
Std Dev 86.86
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.0017
Std Dev 0.8916
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

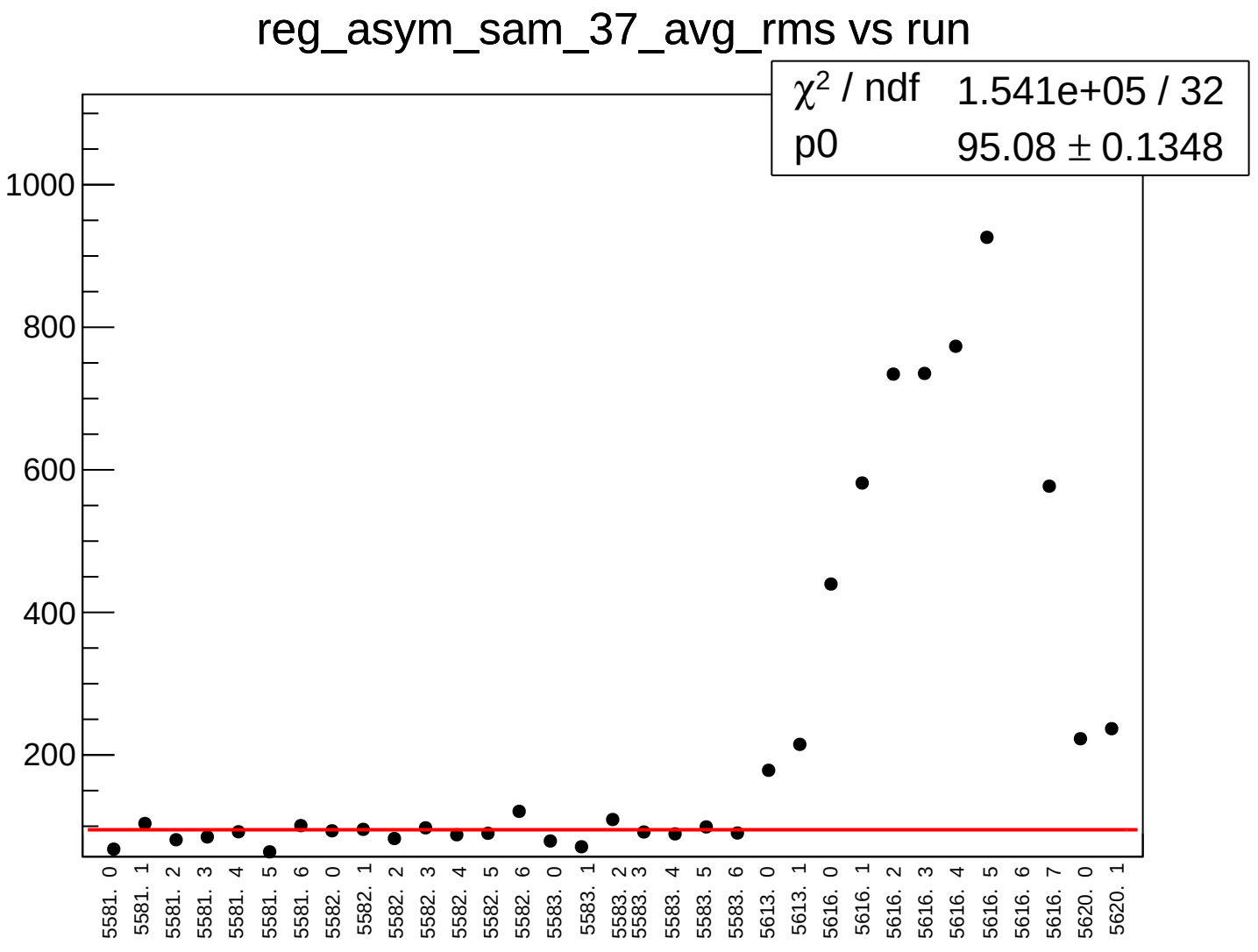

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.823e+05 / 32
p0 155.2 ± 0.2264
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

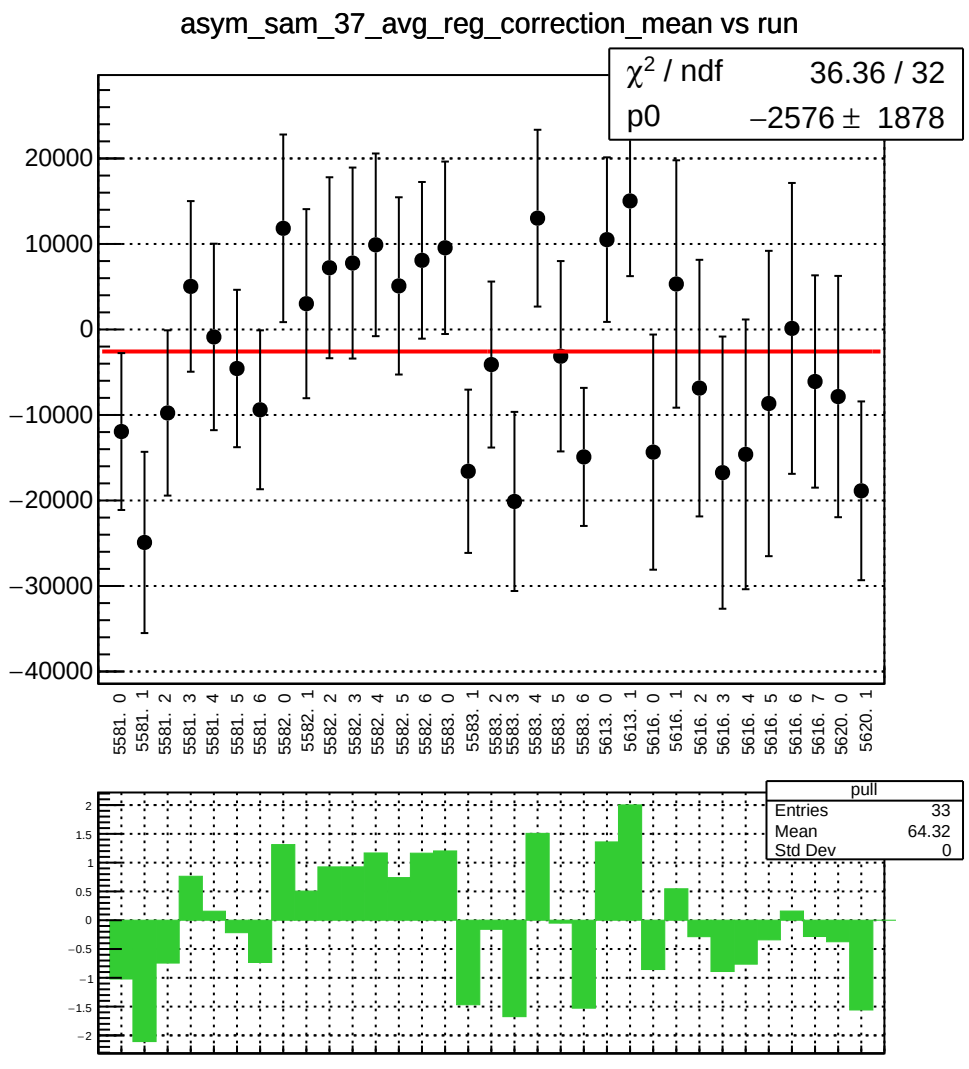

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 16.81 / 25
p0 7.477e−14 ± 1.701e−13
8
6
4
2
0
−2
−4
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 5013
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

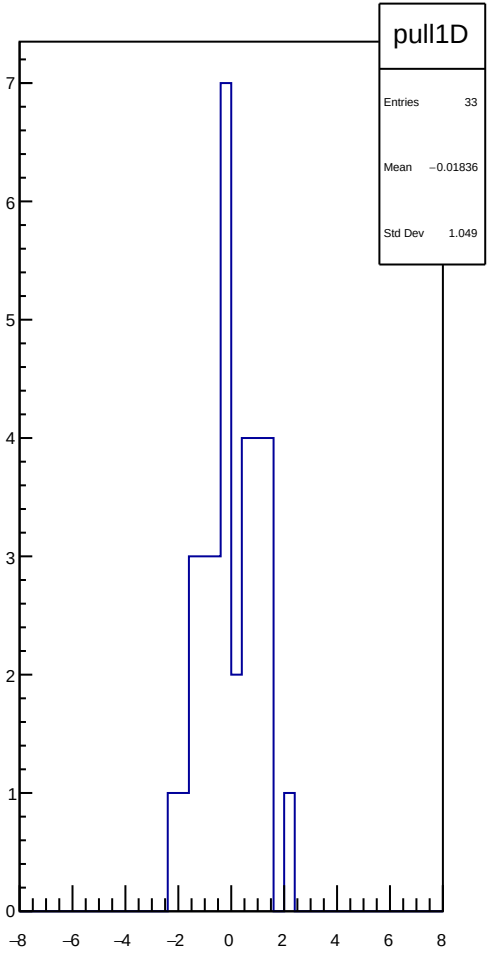

pull1D
Entries 26
Mean 0.0002755
Std Dev 0.804
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

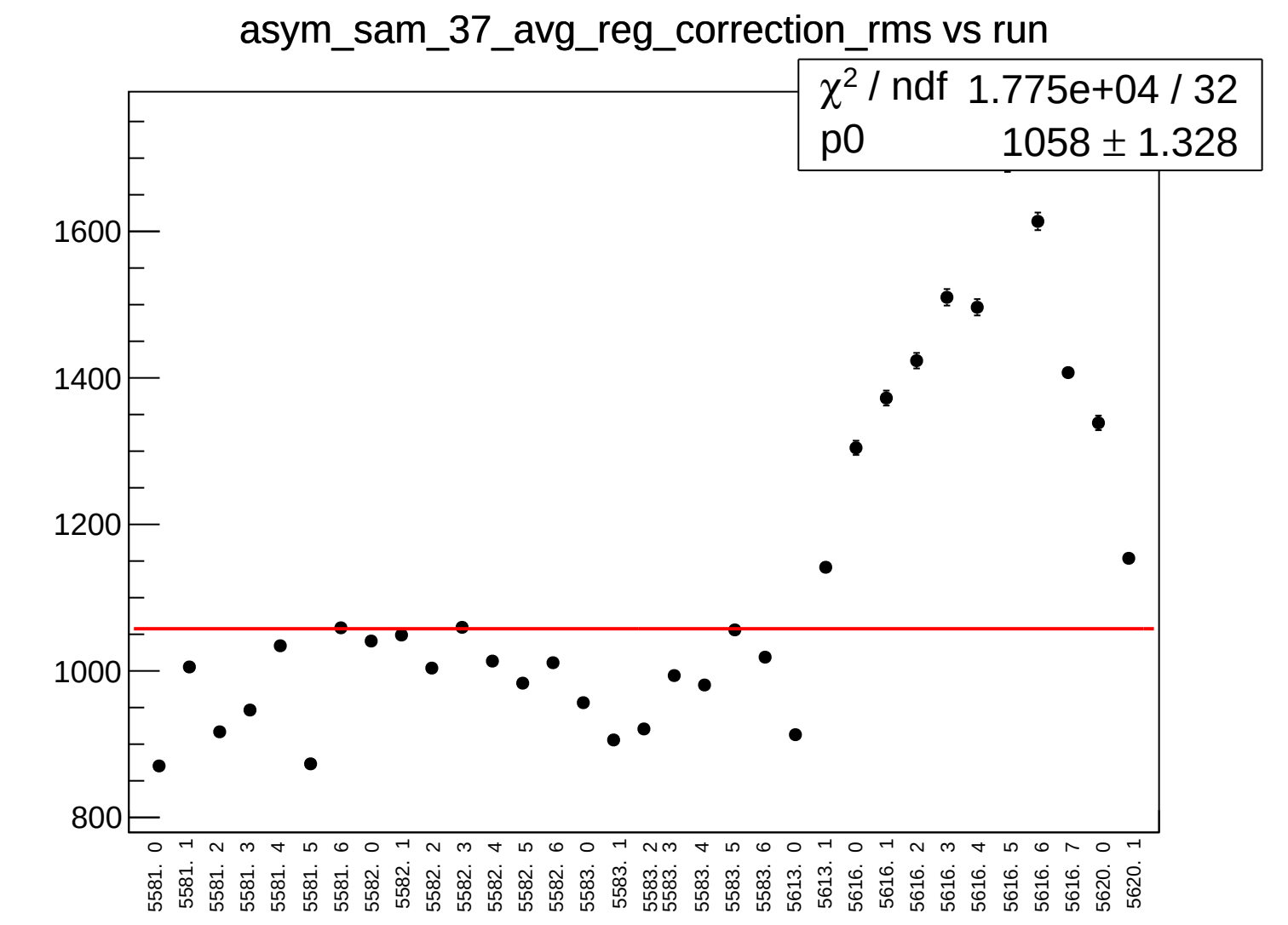

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.839e+05 / 25
p0 6.956e−11 ± 1.203e−13
0.6
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

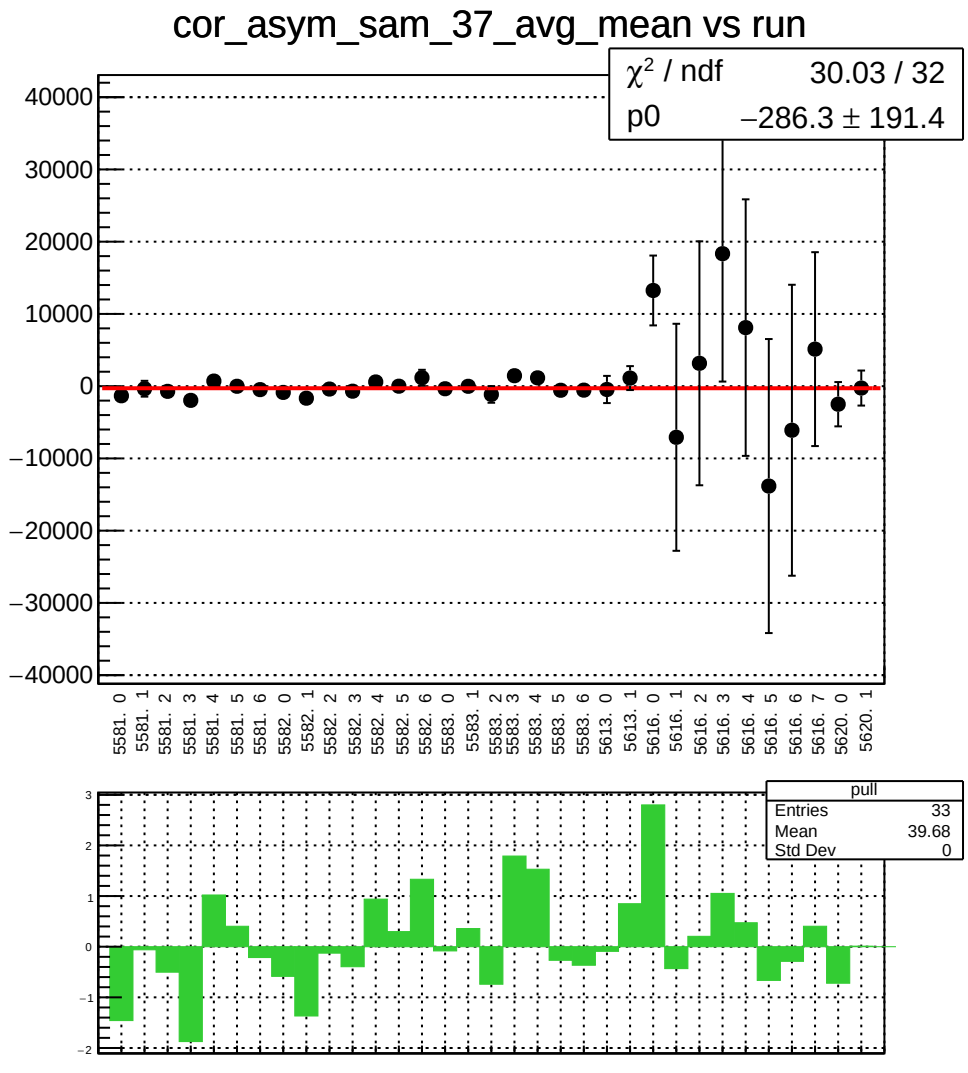

reg_asym_sam_37_avg_mean vs run
χ² / ndf 33.47 / 32
p0 −291.4 ± 190.6
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −31.23
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.02151
Std Dev 1.007
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

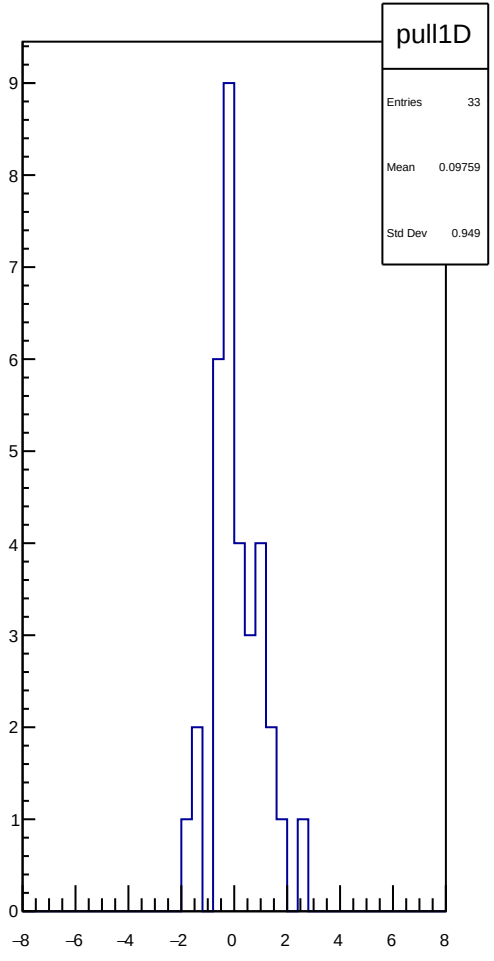

reg_asym_sam_37_avg_rms vs run
χ² / ndf 1.541e+05 / 32
p0 95.08 ± 0.1348
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

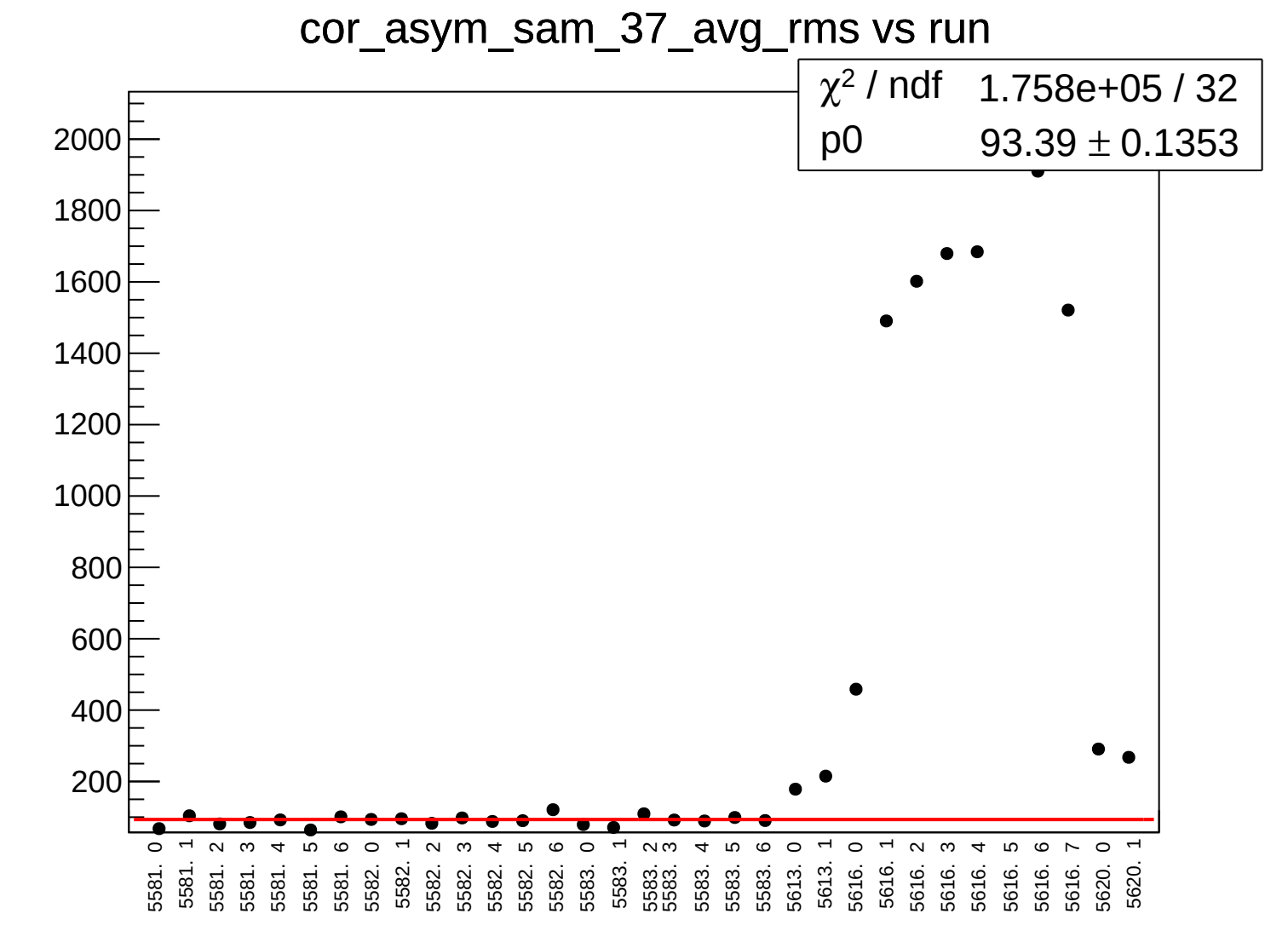

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 36.36 / 32
p0 −2576 ± 1878
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 64.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

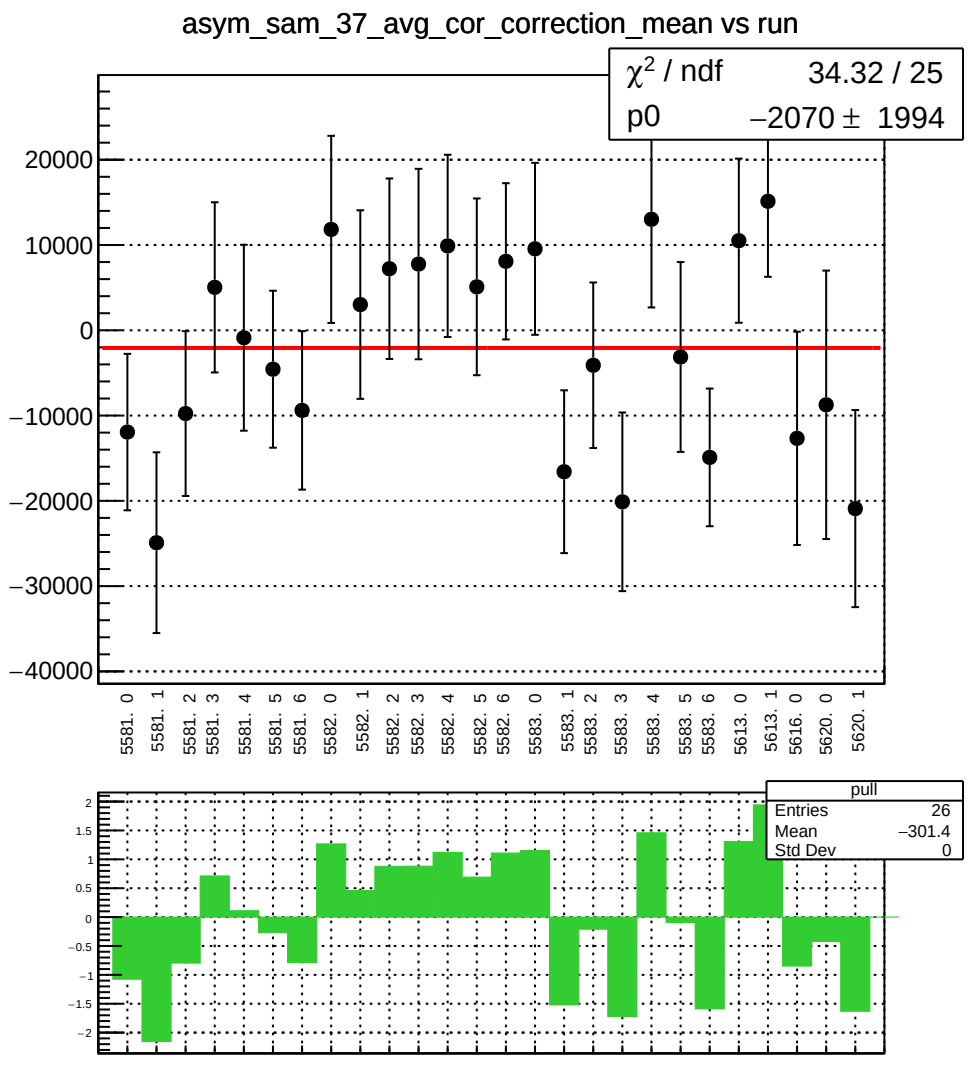

pull1D
Entries 33
Mean −0.01836
Std Dev 1.049
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

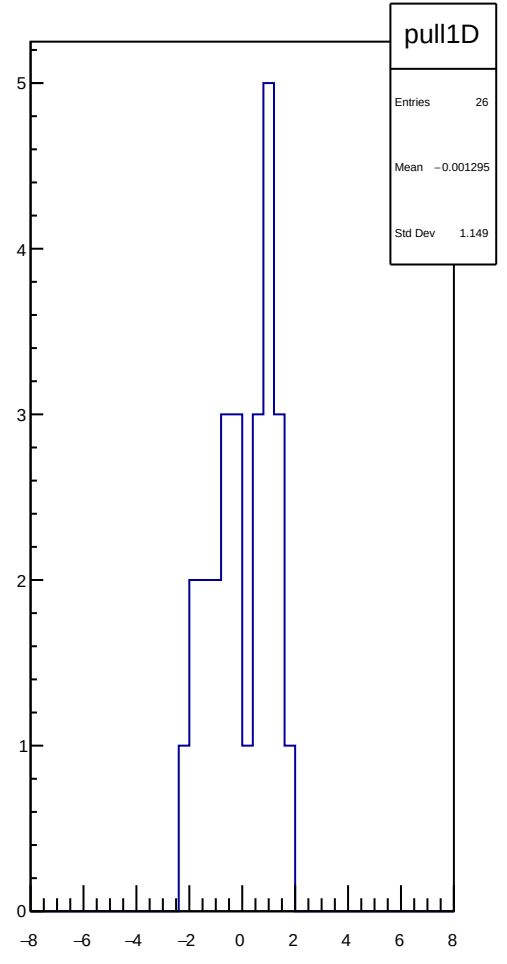

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.775e+04 / 32
p0 1058 ± 1.328
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

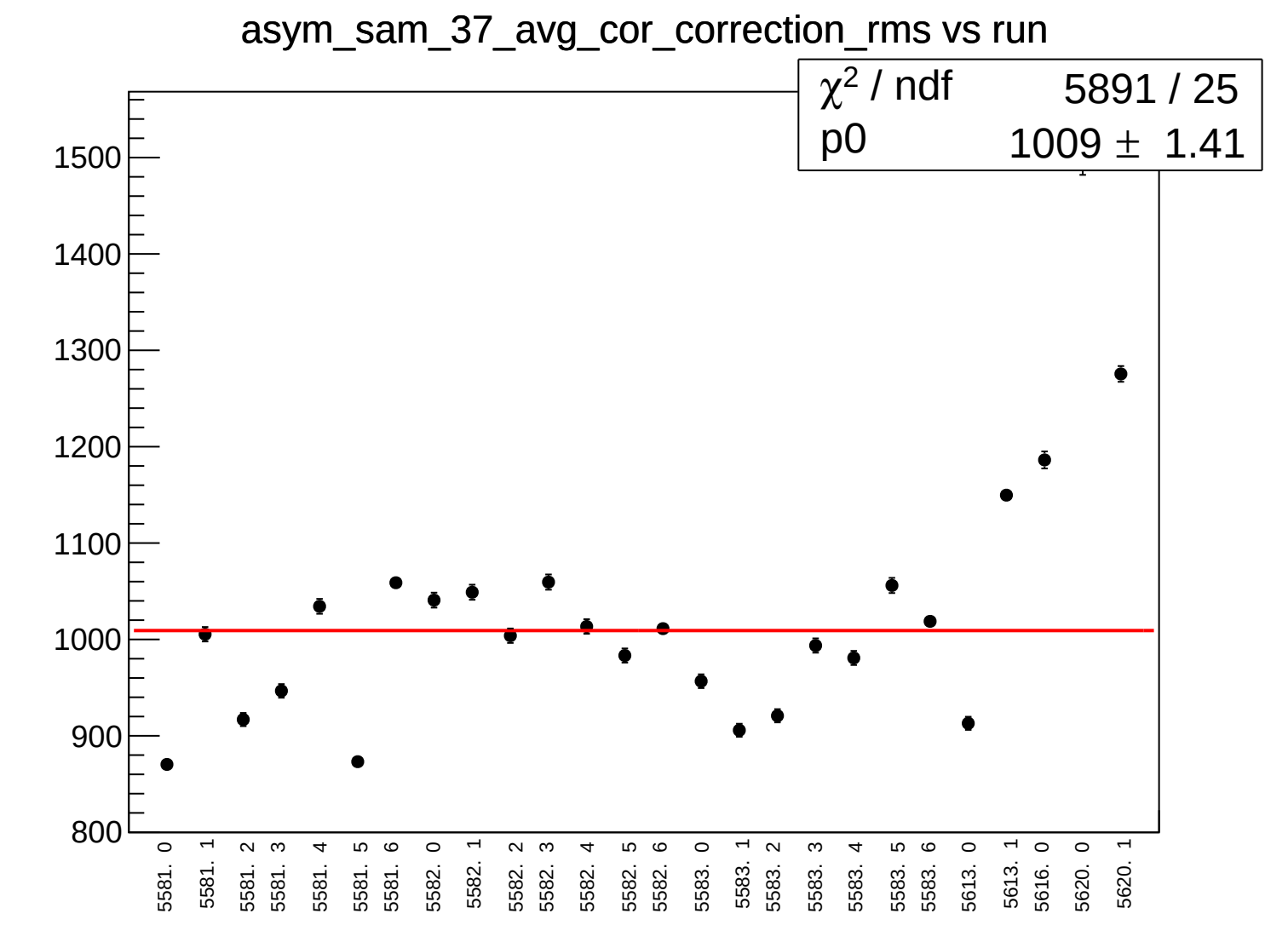

cor_asym_sam_37_avg_mean vs run
χ² / ndf 30.03 / 32
p0 −286.3 ± 191.4
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.68
Std Dev 0
3
2
1
0
−1
−2

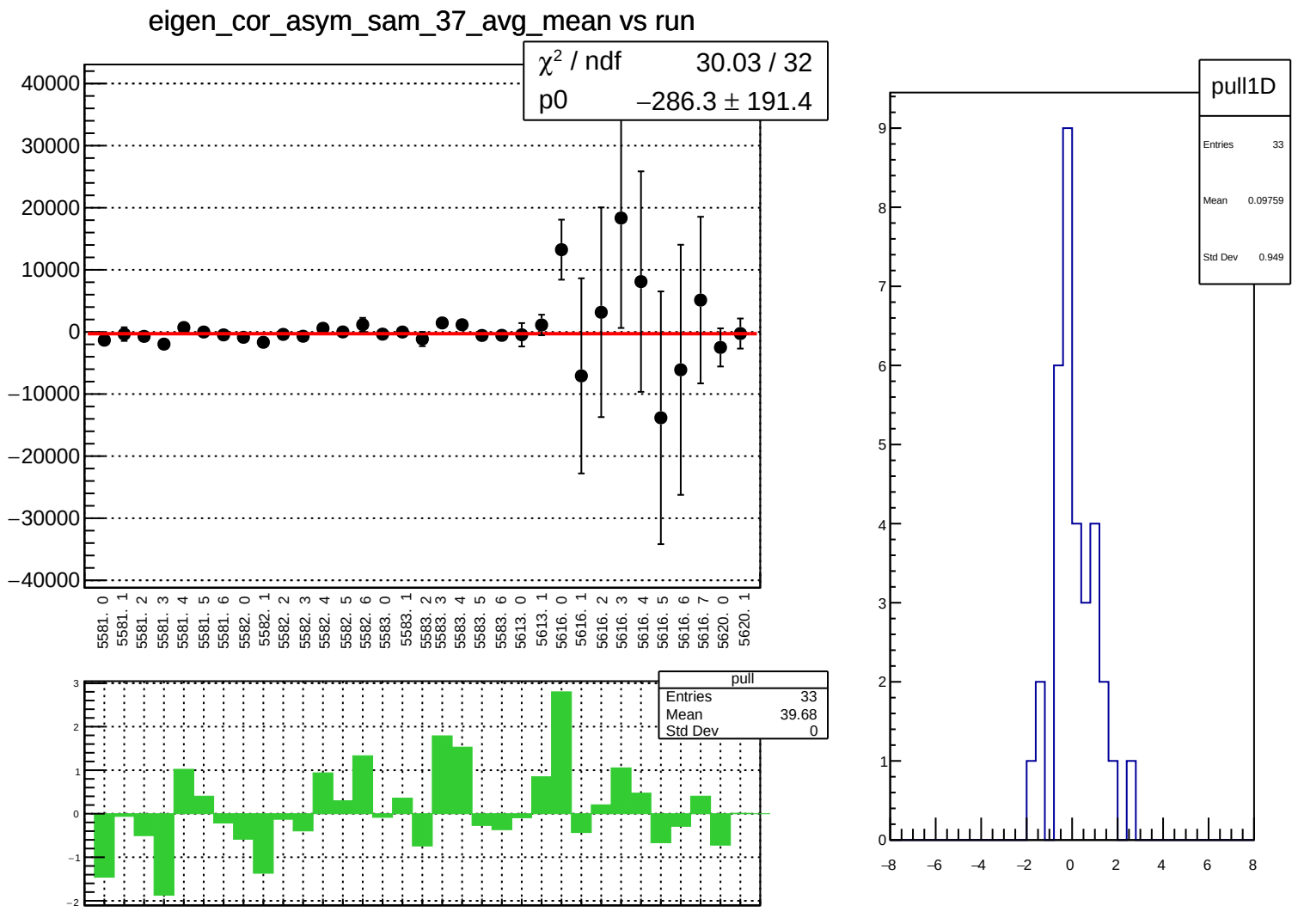

pull1D
Entries 33
Mean 0.09759
Std Dev 0.949
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

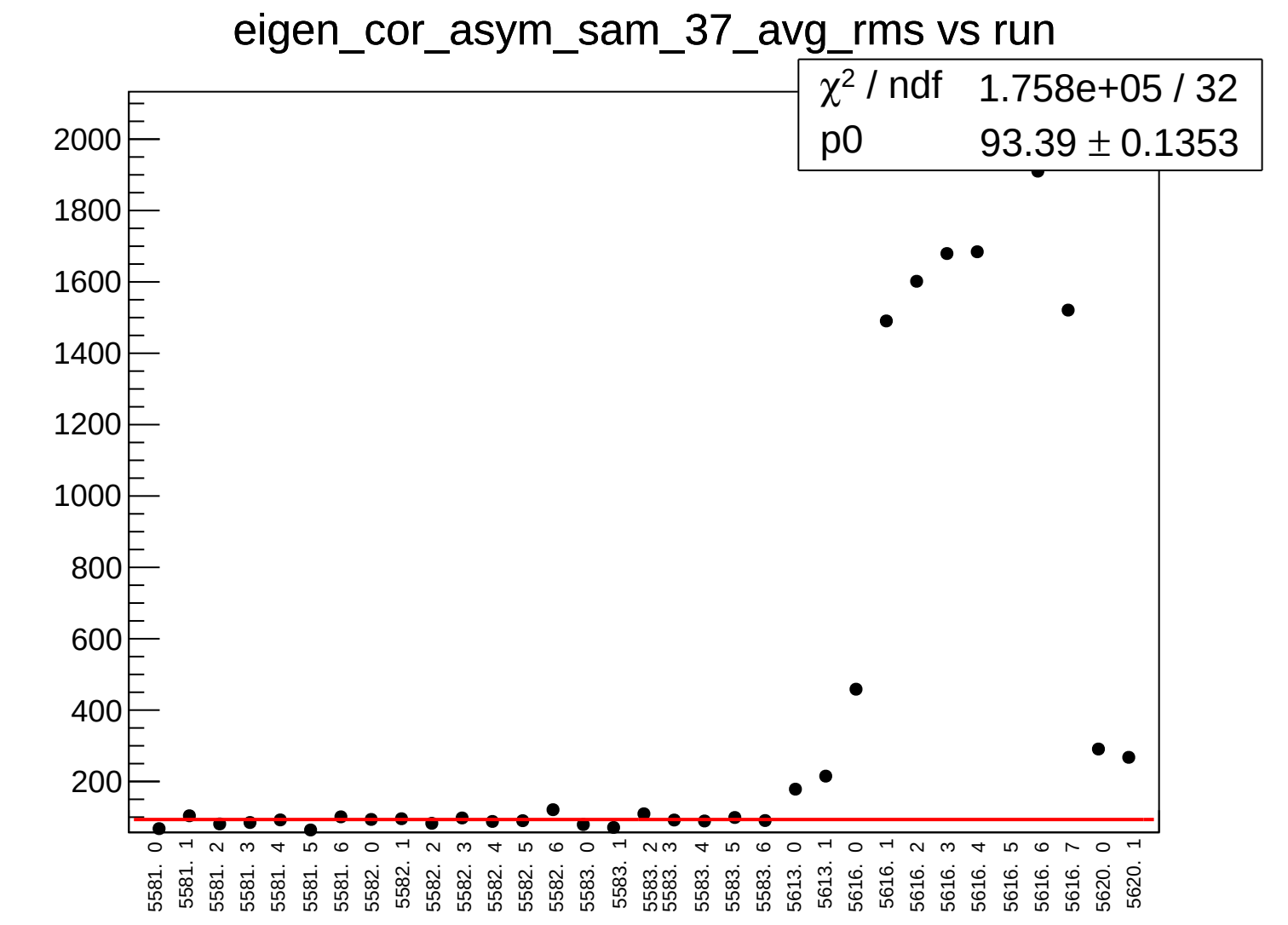

cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.758e+05 / 32
p0 93.39 ± 0.1353
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1


asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 34.32 / 25
p0 −2070 ± 1994
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −301.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

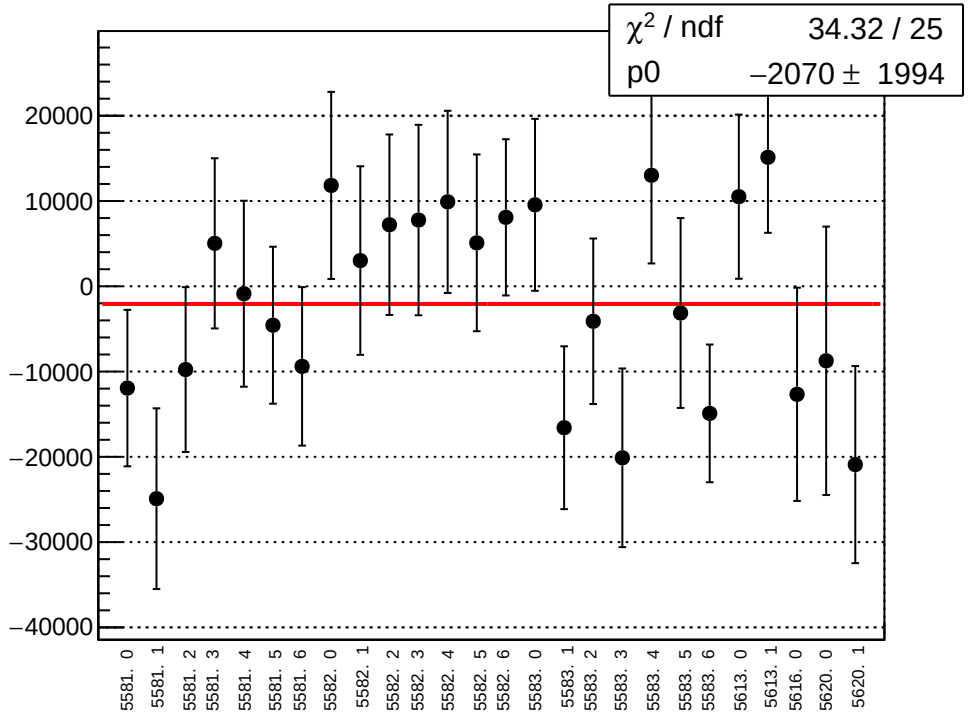

pull1D
Entries 26
Mean −0.001295
Std Dev 1.149
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

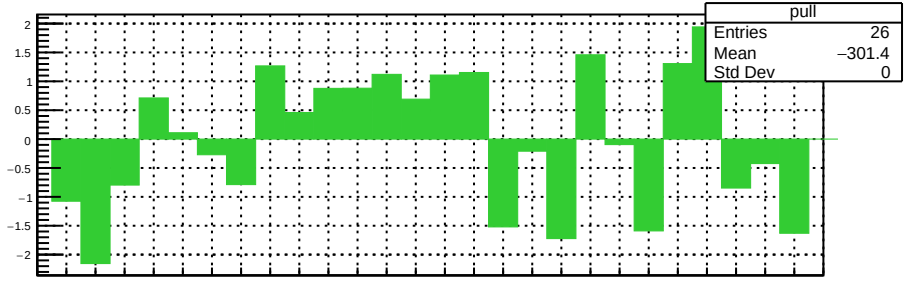

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 5891 / 25
p0 1009 ± 1.41
1500
1400
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

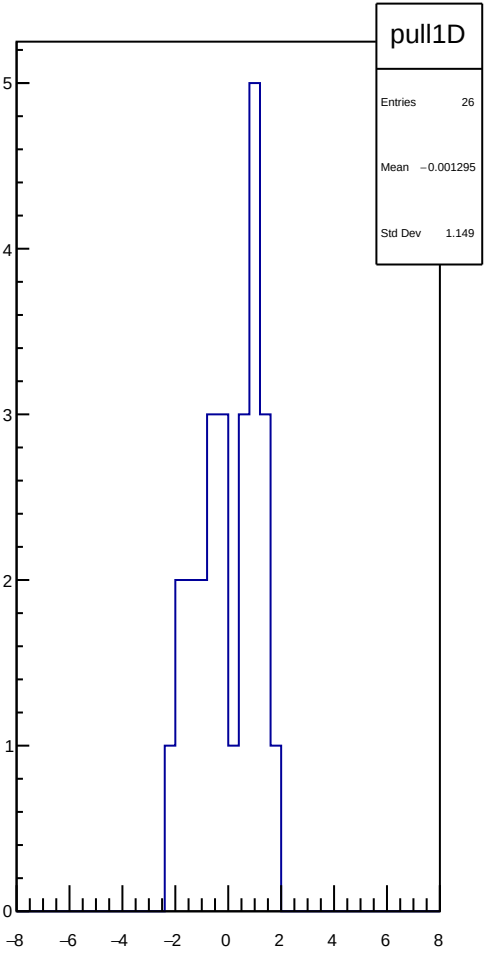

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 30.03 / 32
p0 −286.3 ± 191.4
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.68
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.09759
Std Dev 0.949
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

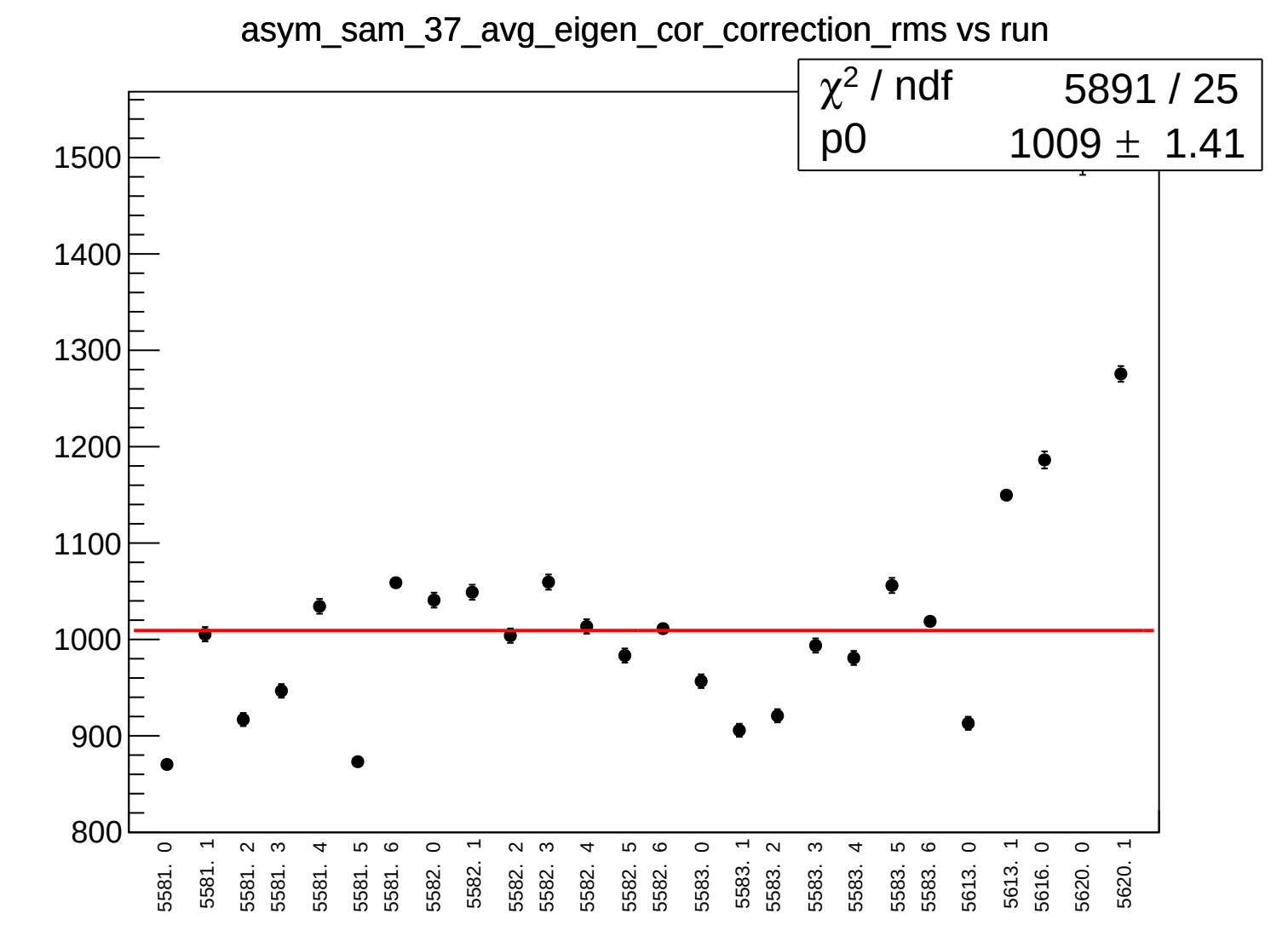

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.758e+05 / 32
p0 93.39 ± 0.1353
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

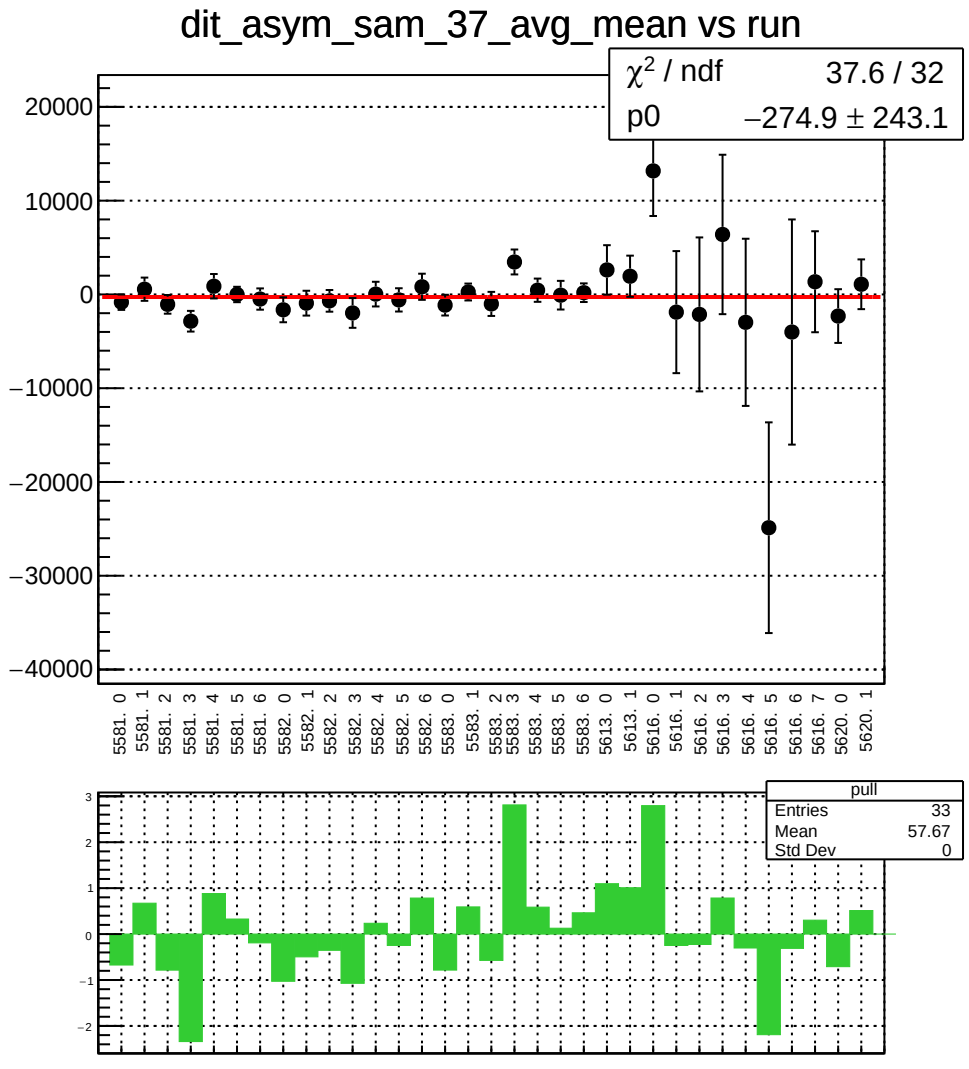
asym_sam_37_avg_eigen_cor_correction_mean vs run

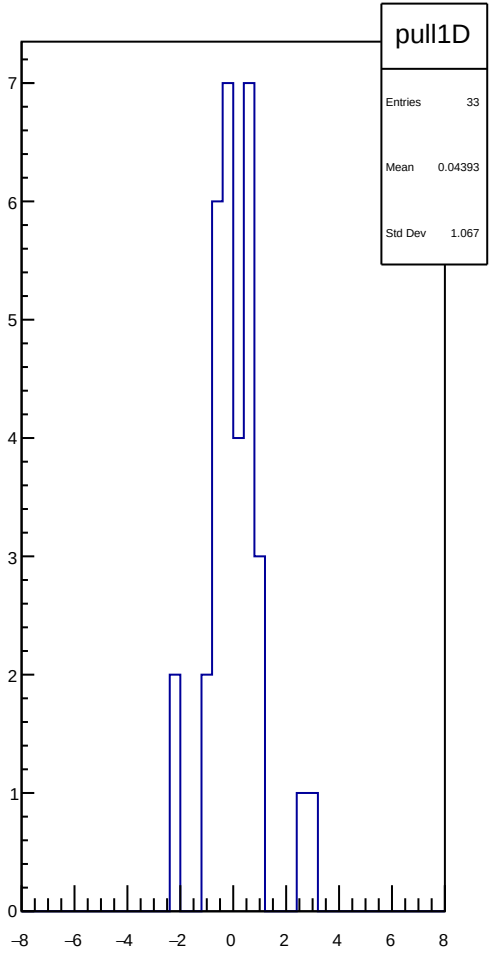


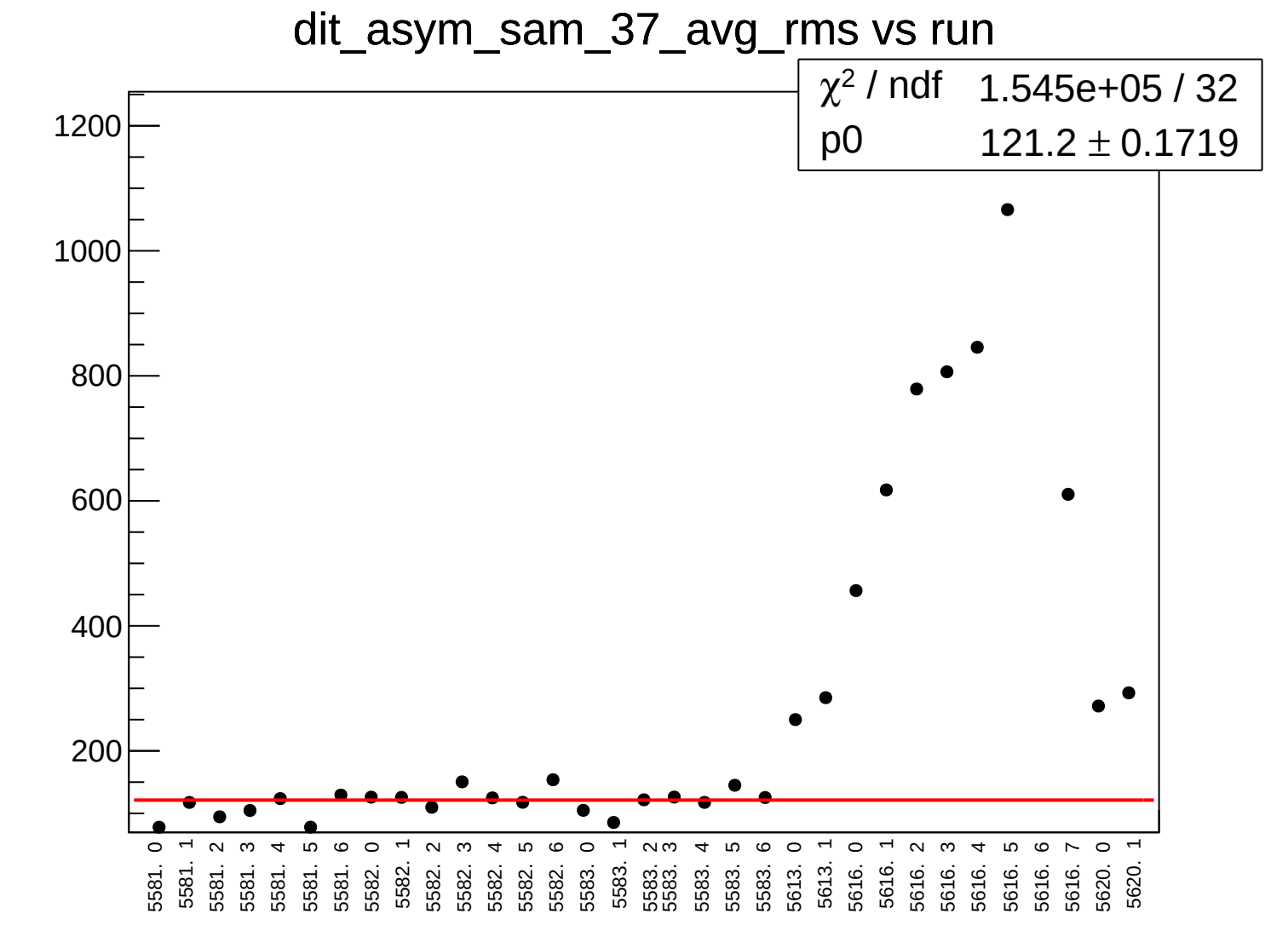


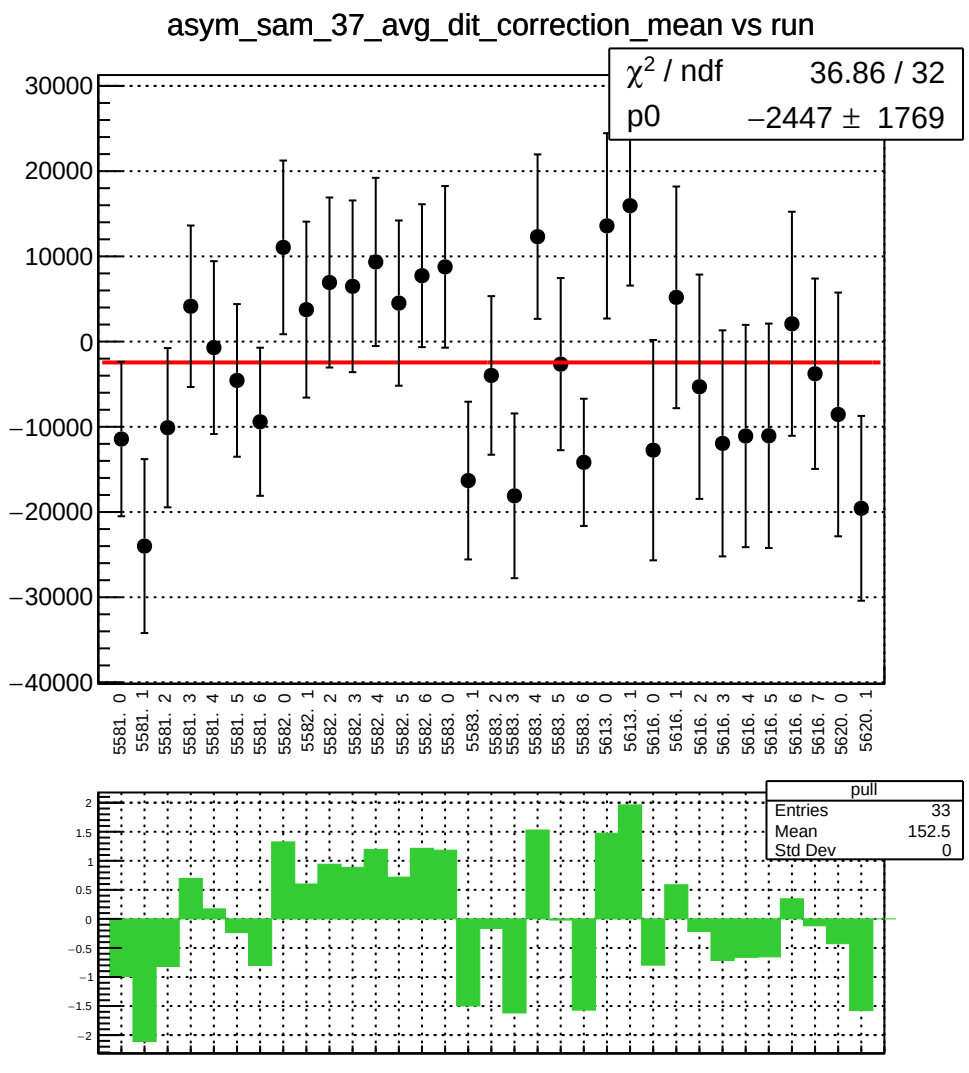


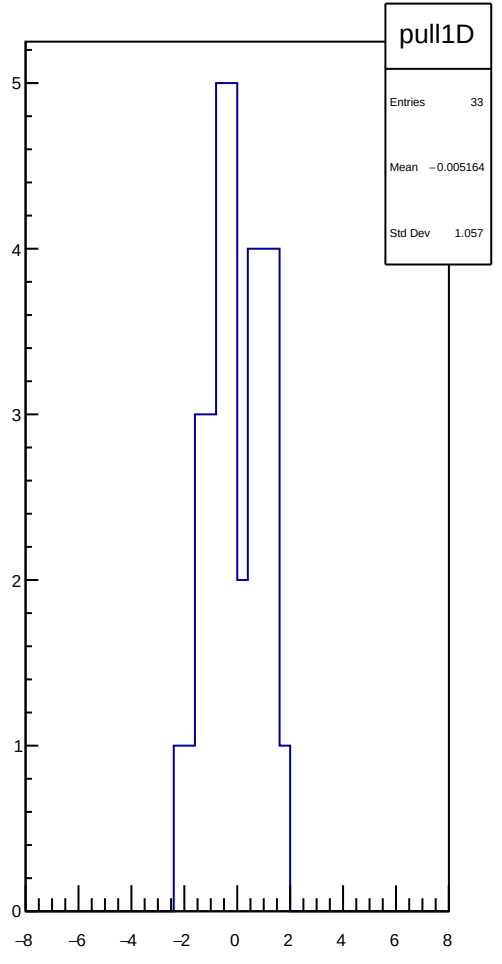

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 5891 / 25
p0 1009 ± 1.41
1500
1400
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

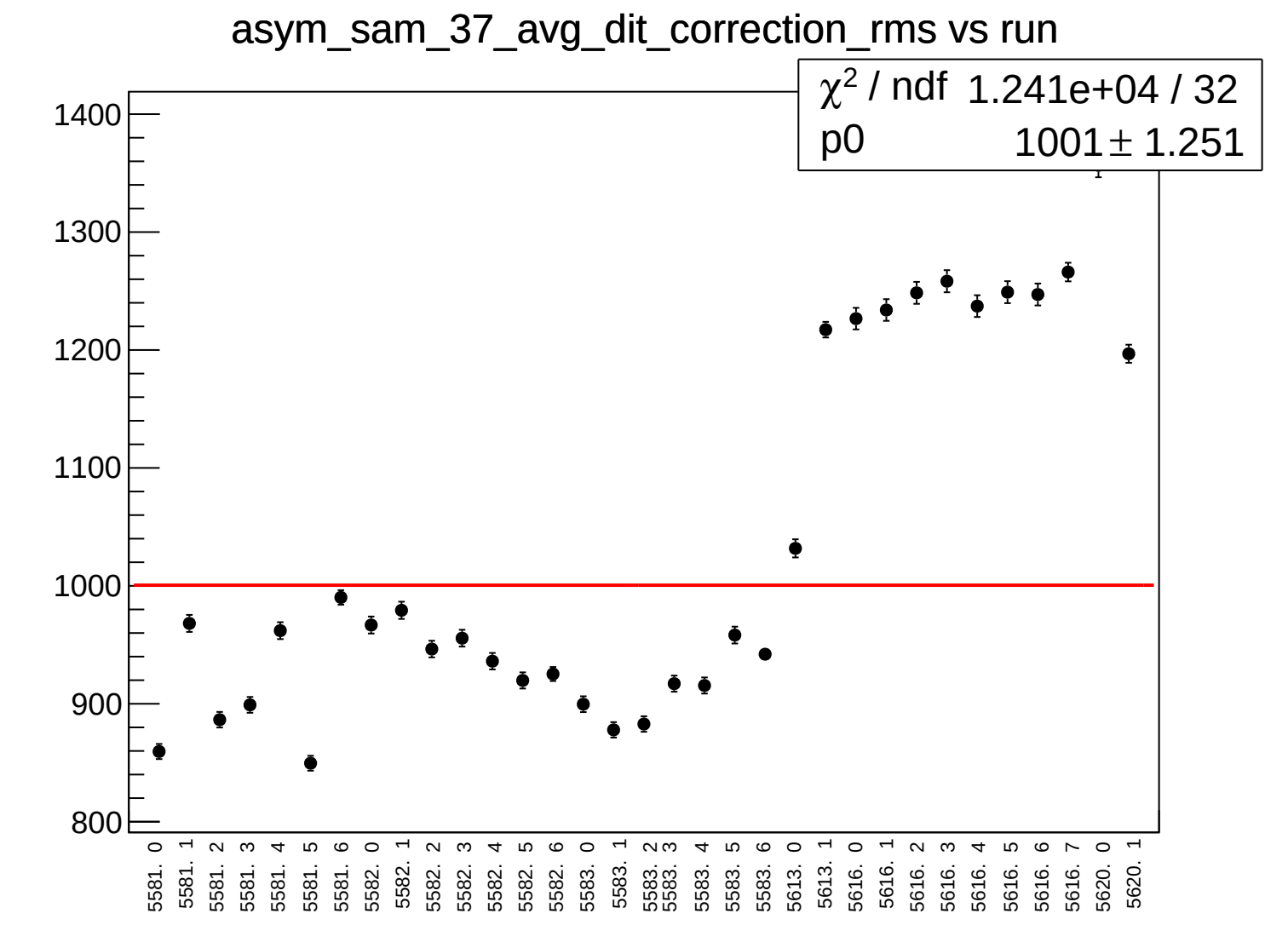

dit_asym_sam_37_avg_mean vs run
χ² / ndf 37.6 / 32
p0 −274.9 ± 243.1
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 57.67
Std Dev 0
3
2
1
0
−1
−2

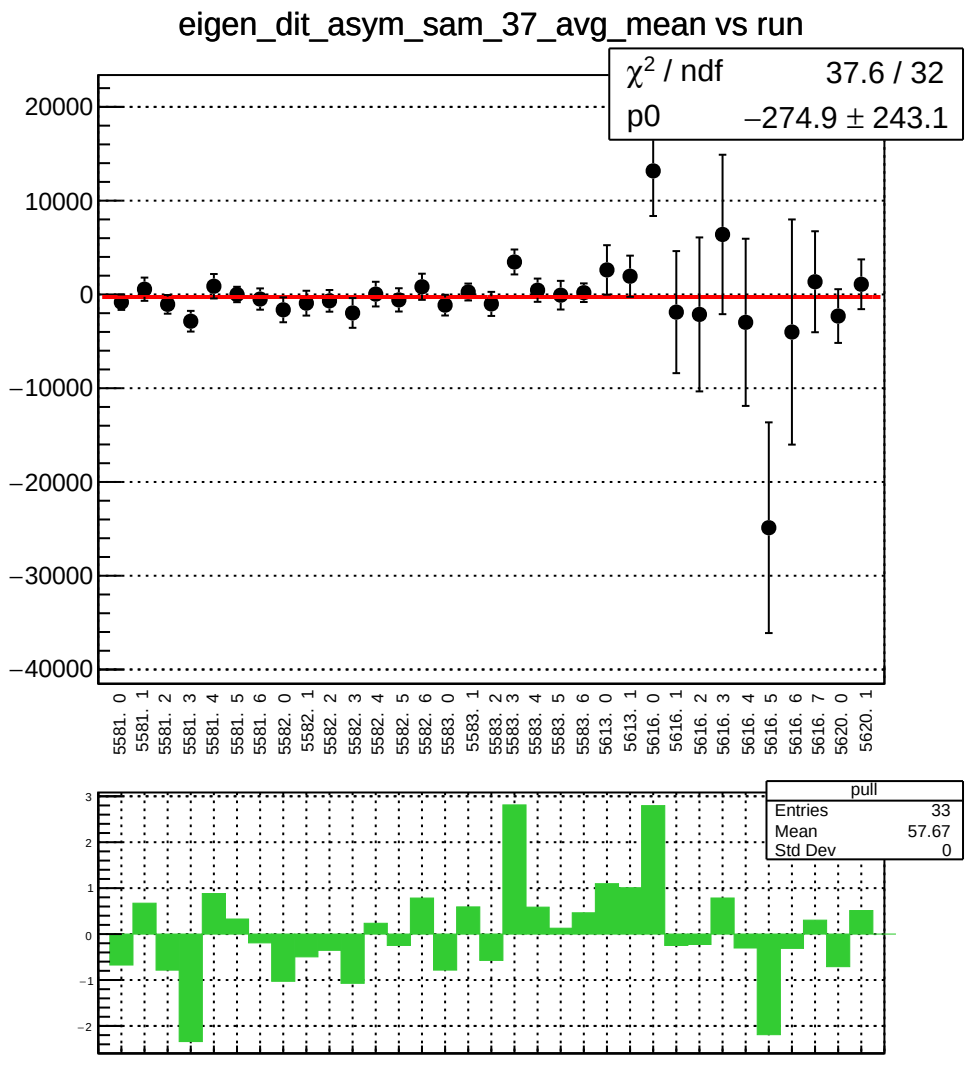

pull1D
Entries 33
Mean 0.04393
Std Dev 1.067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

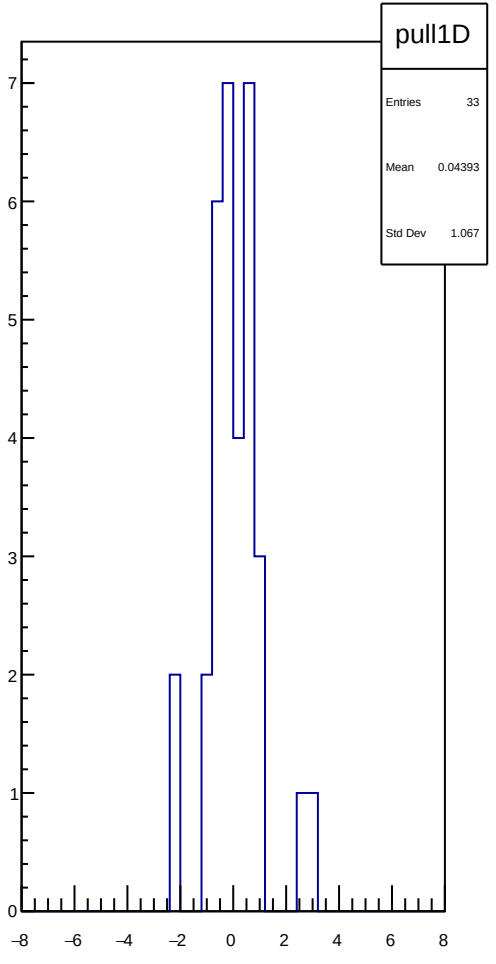

dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.545e+05 / 32
p0 121.2 ± 0.1719
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

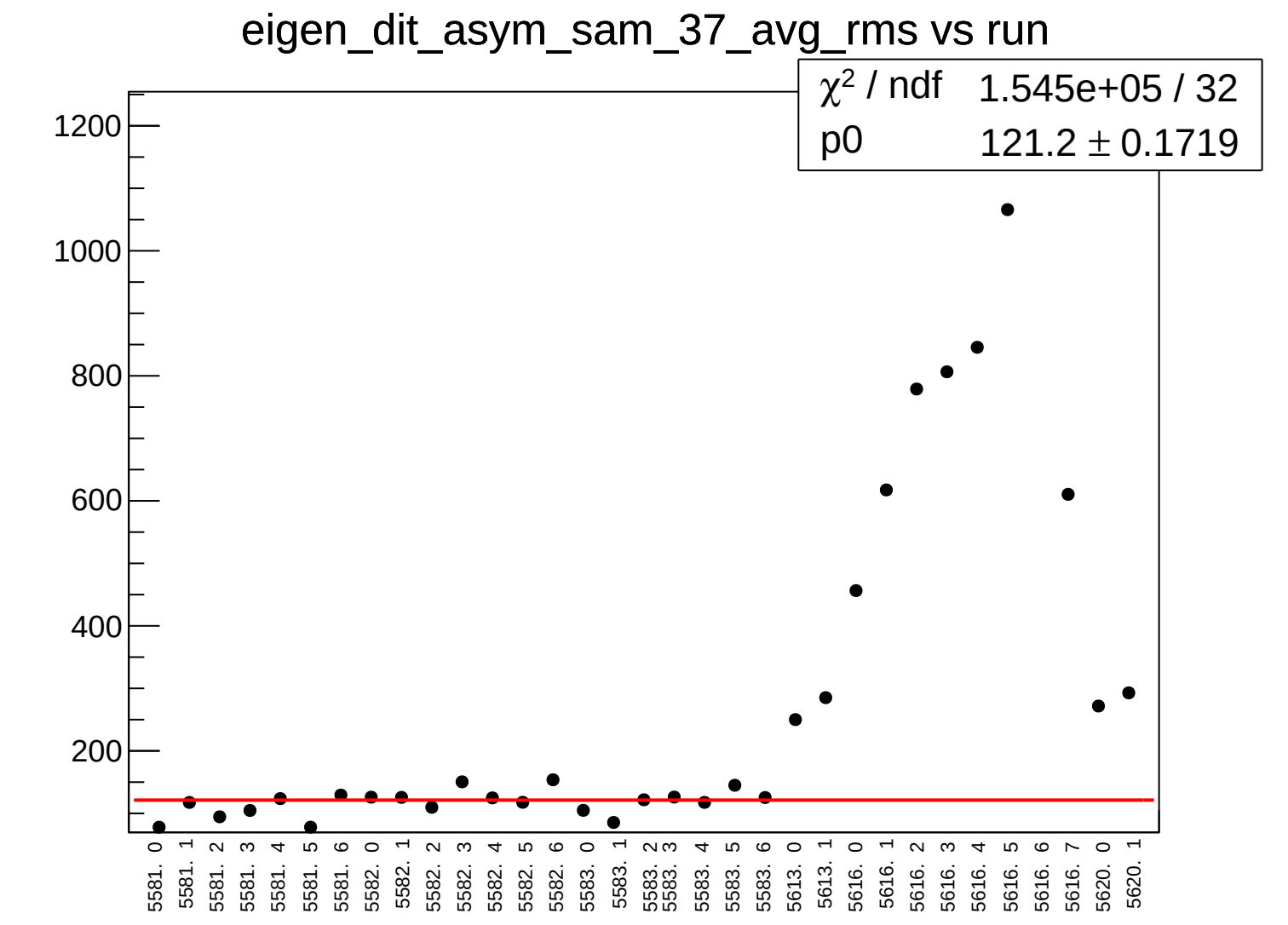

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 36.86 / 32
p0 −2447 ± 1769
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 152.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

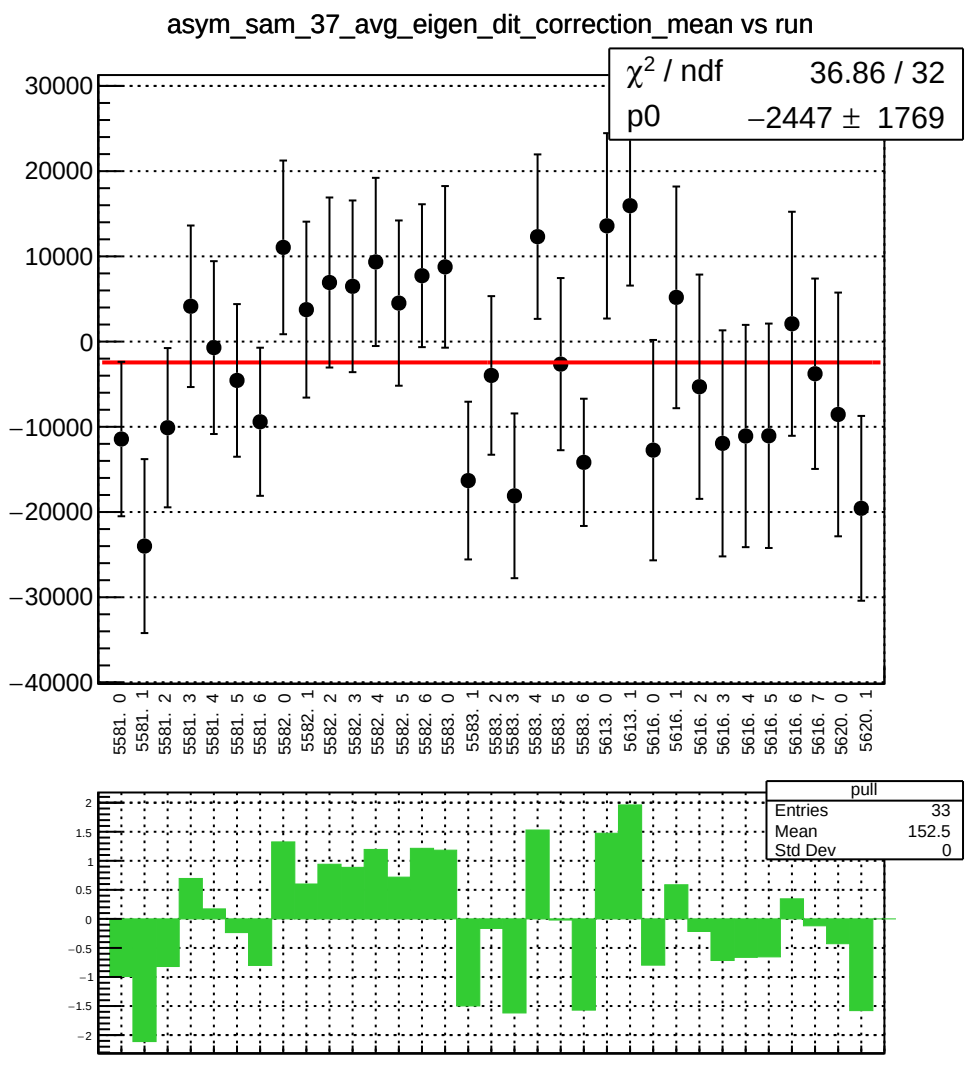

pull1D
Entries 33
Mean −0.005164
Std Dev 1.057
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

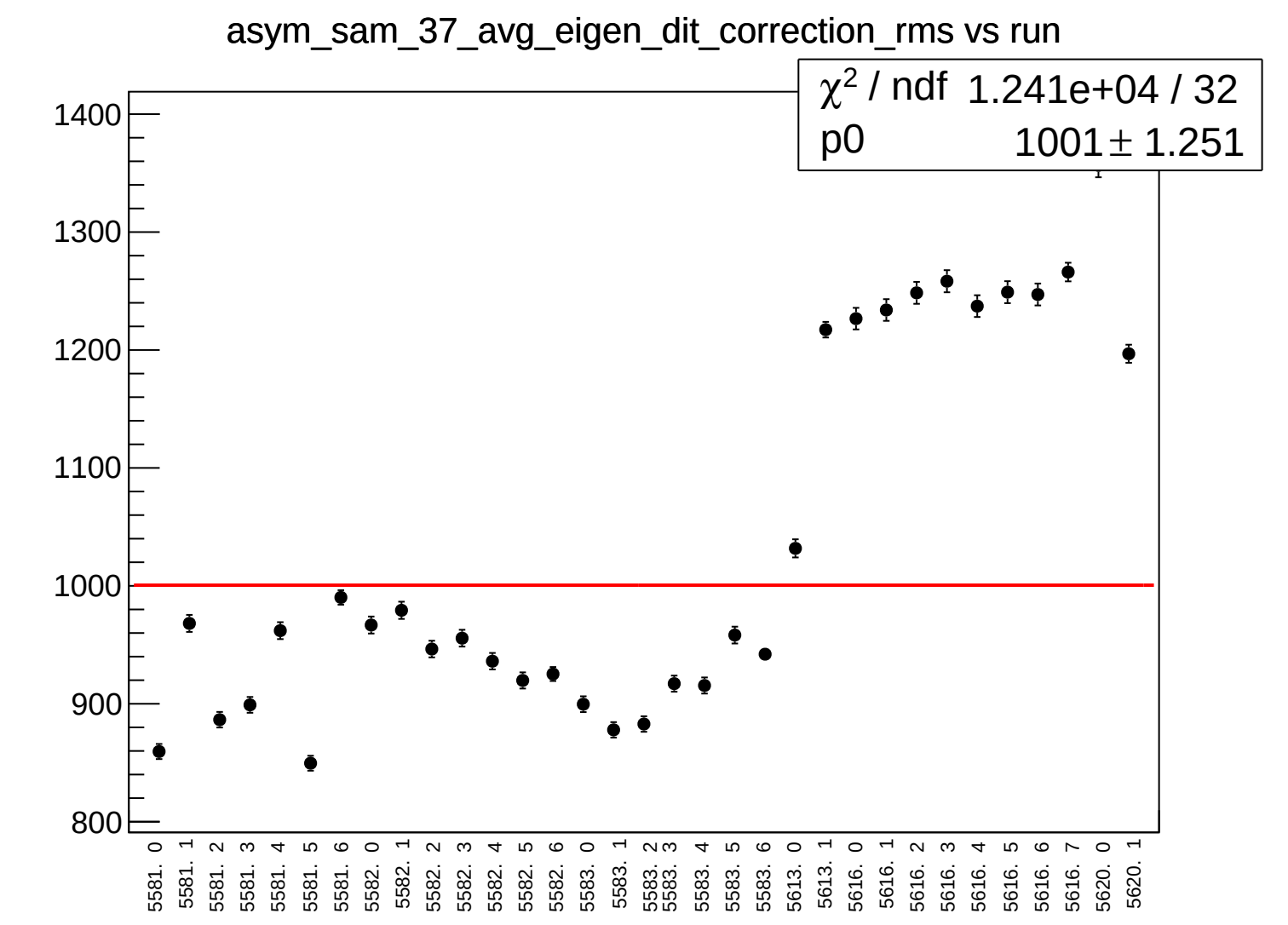

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1.241e+04 / 32
p0 1001 ± 1.251
1400
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

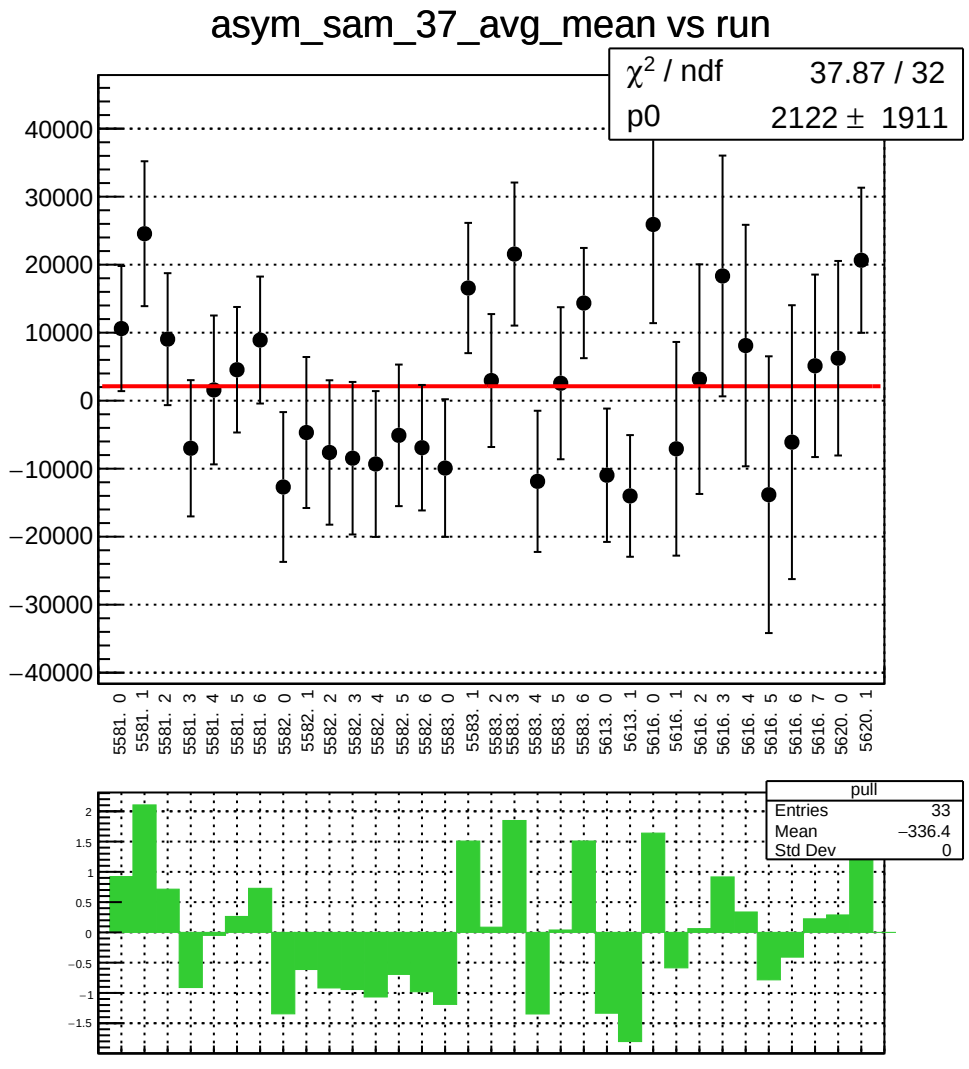

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 37.6 / 32
p0 −274.9 ± 243.1
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 57.67
Std Dev 0
3
2
1
0
−1
−2

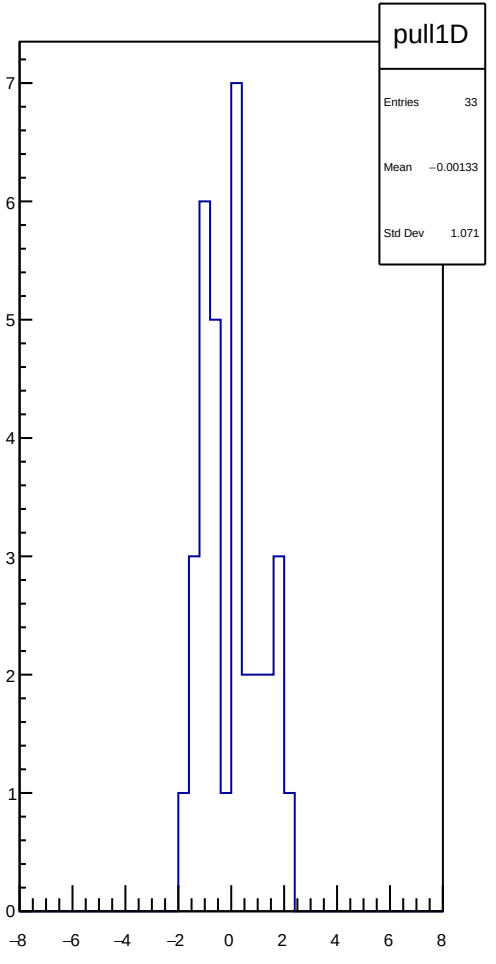

pull1D
Entries 33
Mean 0.04393
Std Dev 1.067
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

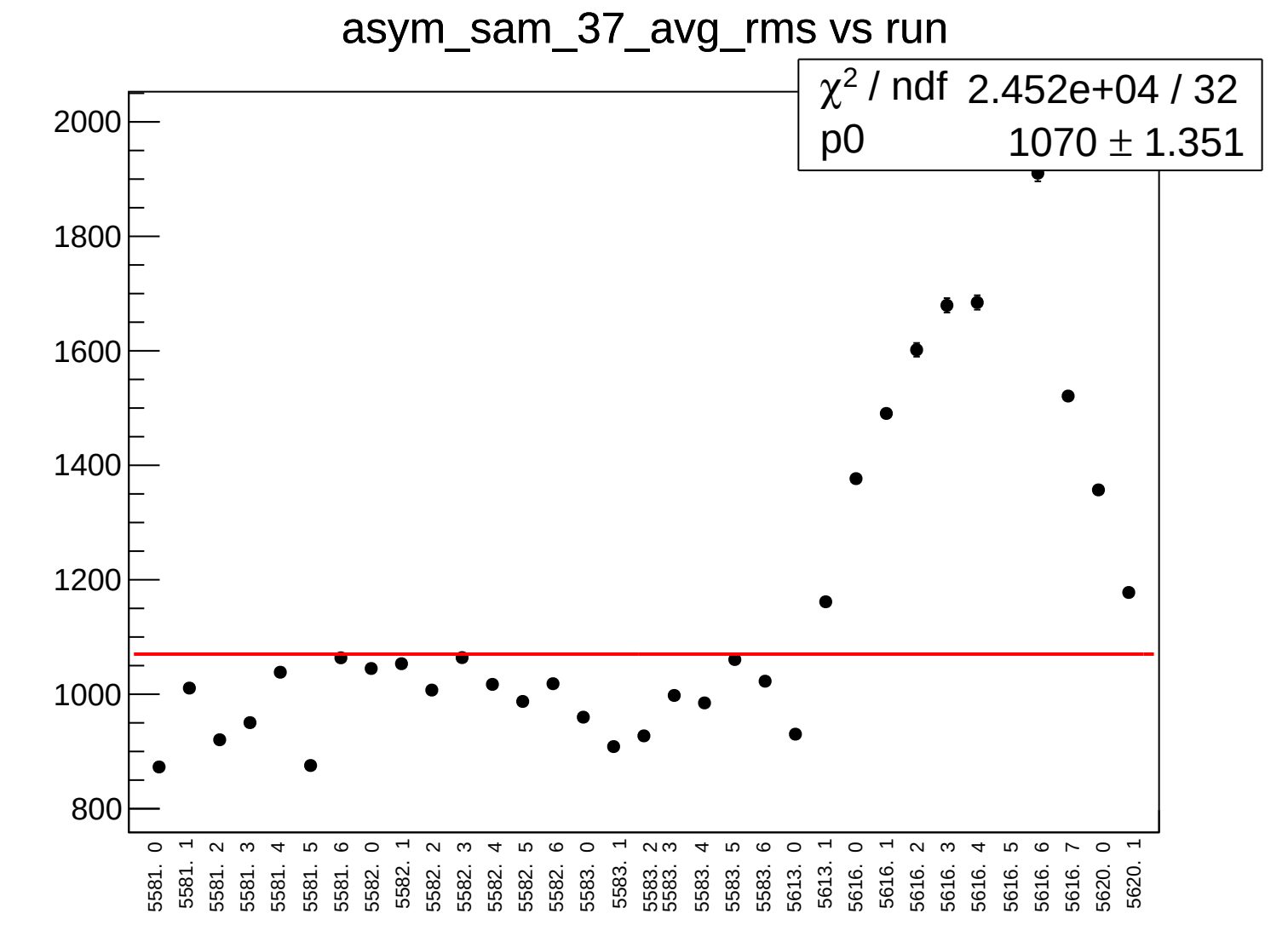

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.545e+05 / 32
p0 121.2 ± 0.1719
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

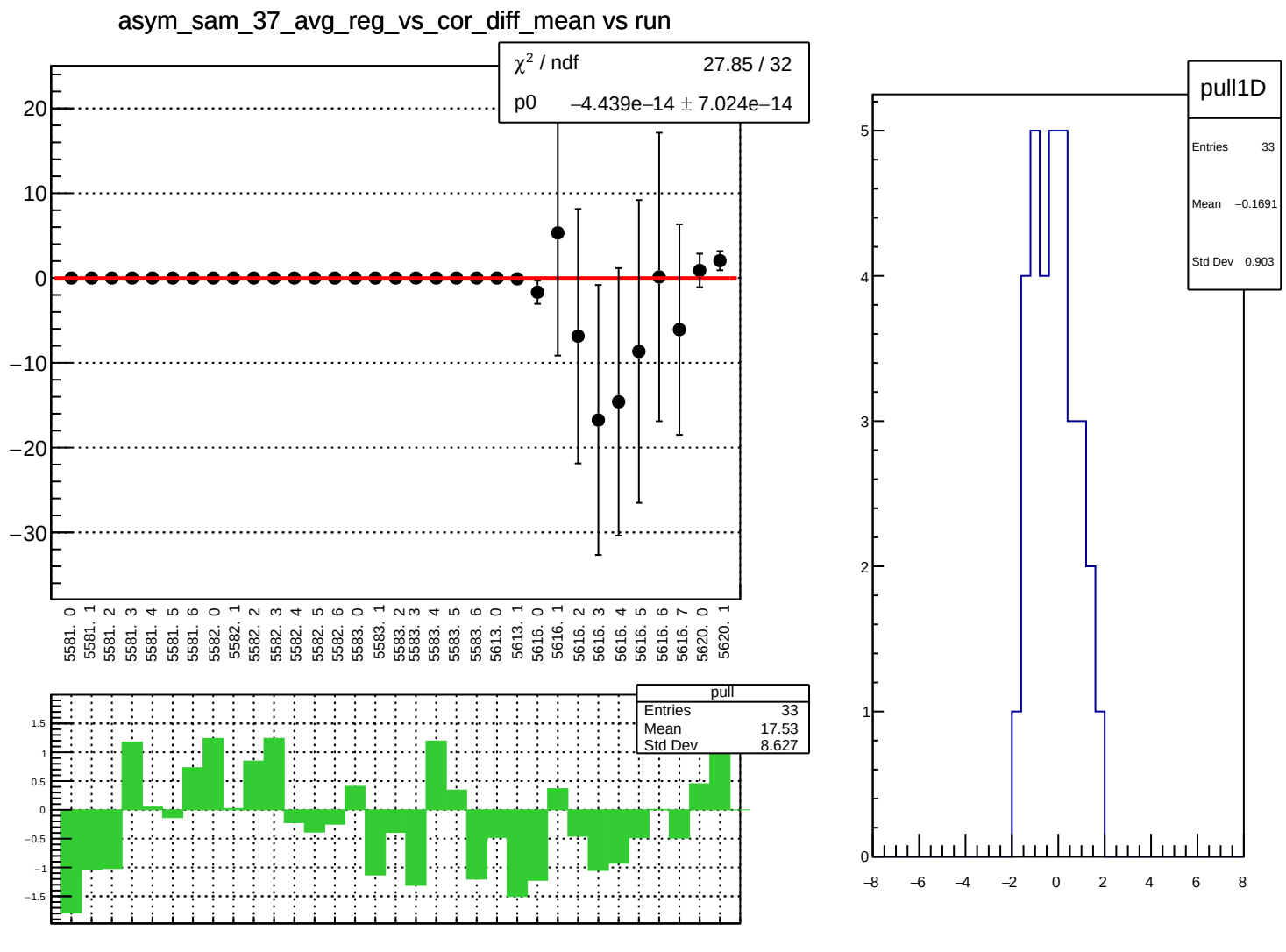

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 36.86 / 32
p0 −2447 ± 1769
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 152.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.005164
Std Dev 1.057
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

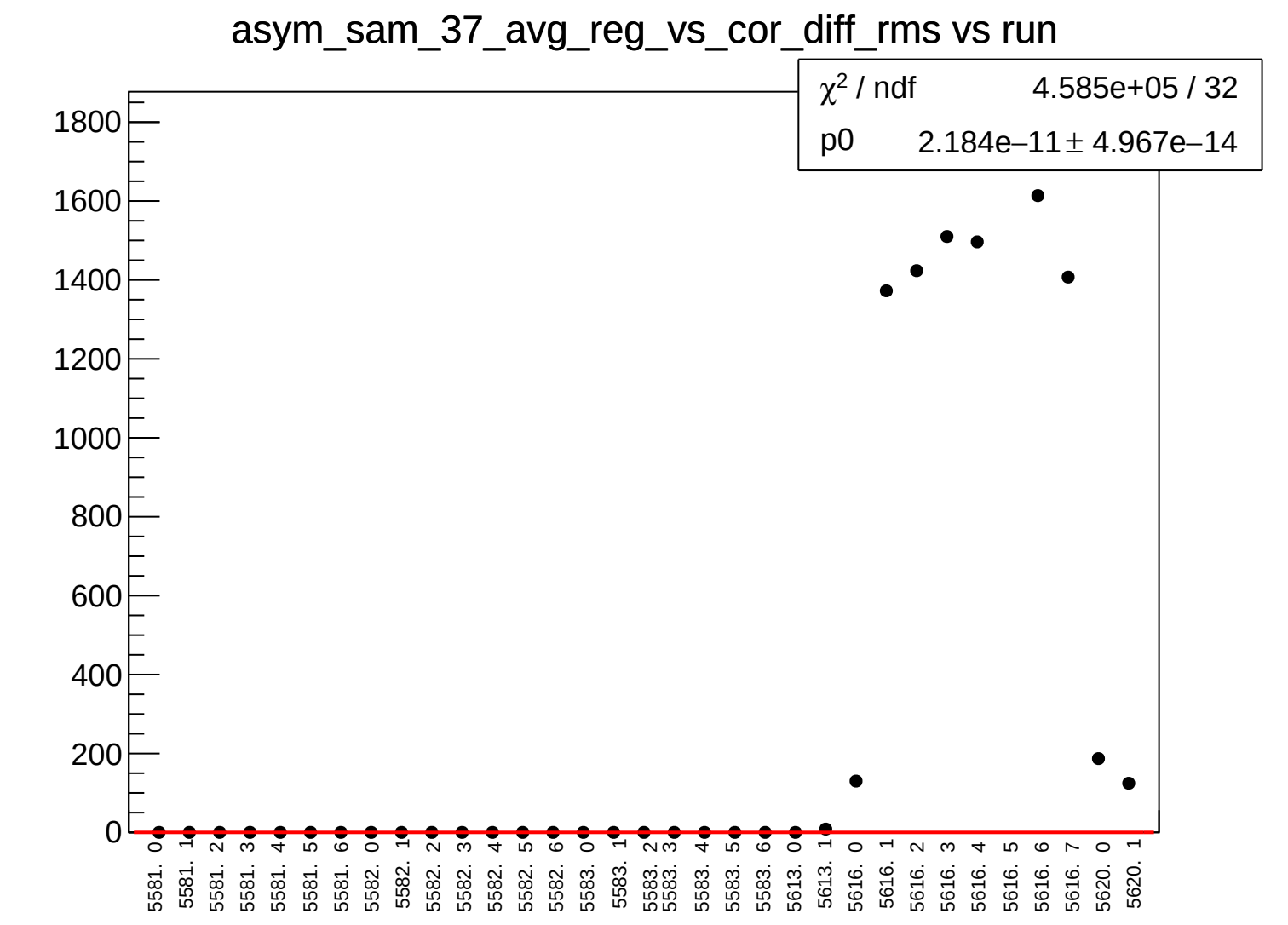

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.241e+04 / 32
p0 1001 ± 1.251
1400
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

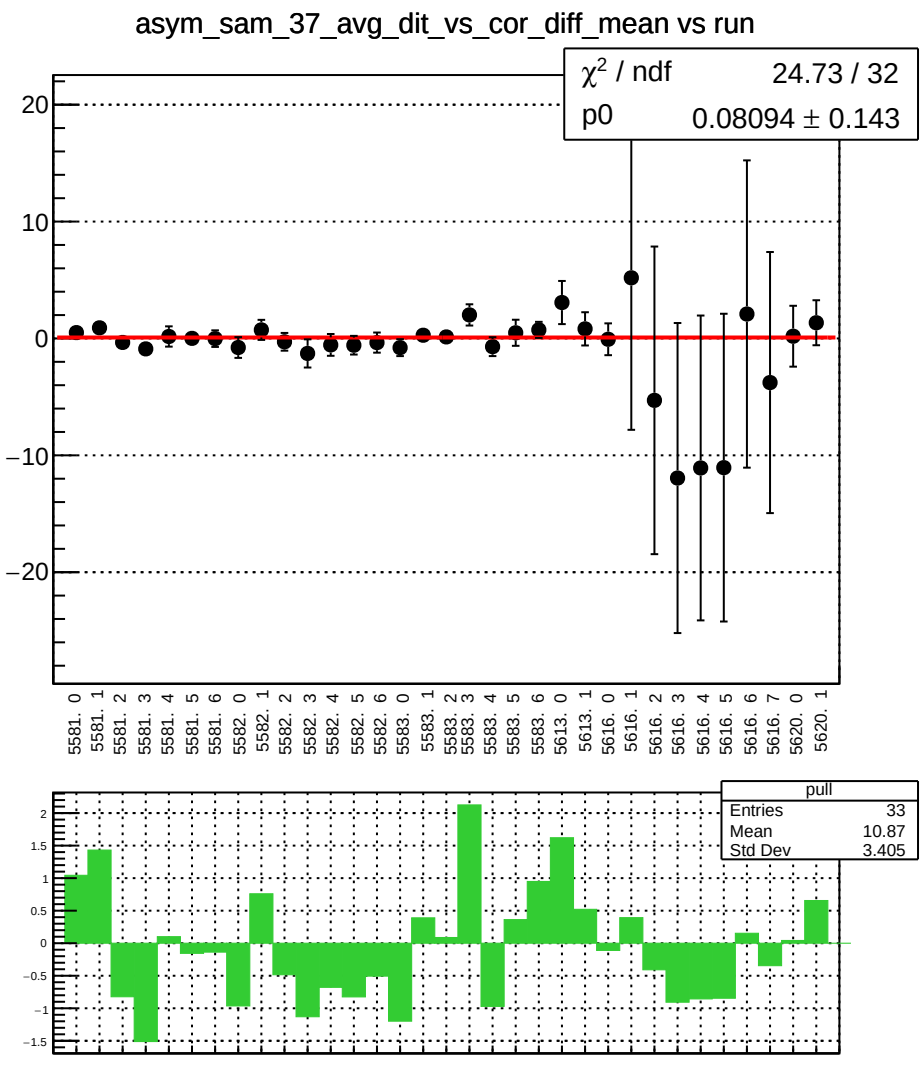

asym_sam_37_avg_mean vs run
χ² / ndf 37.87 / 32
p0 2122 ± 1911
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −336.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

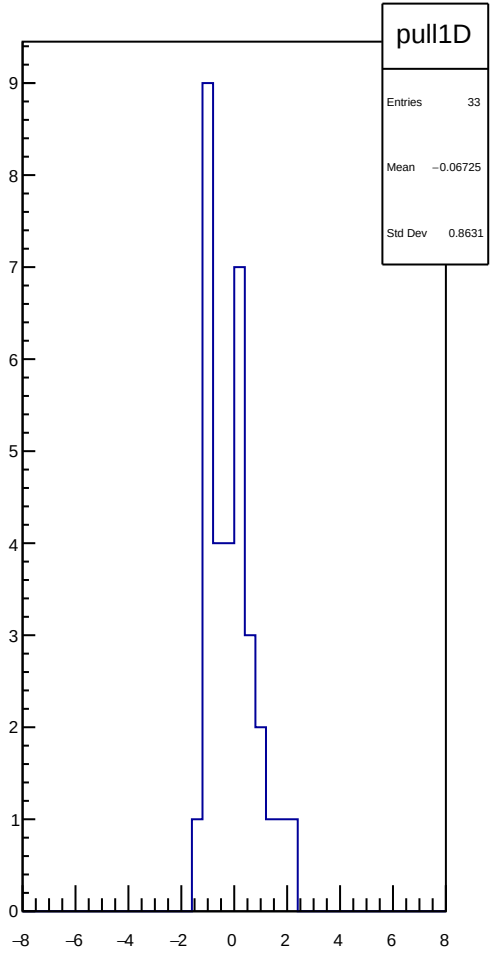

pull1D
Entries 33
Mean −0.00133
Std Dev 1.071
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

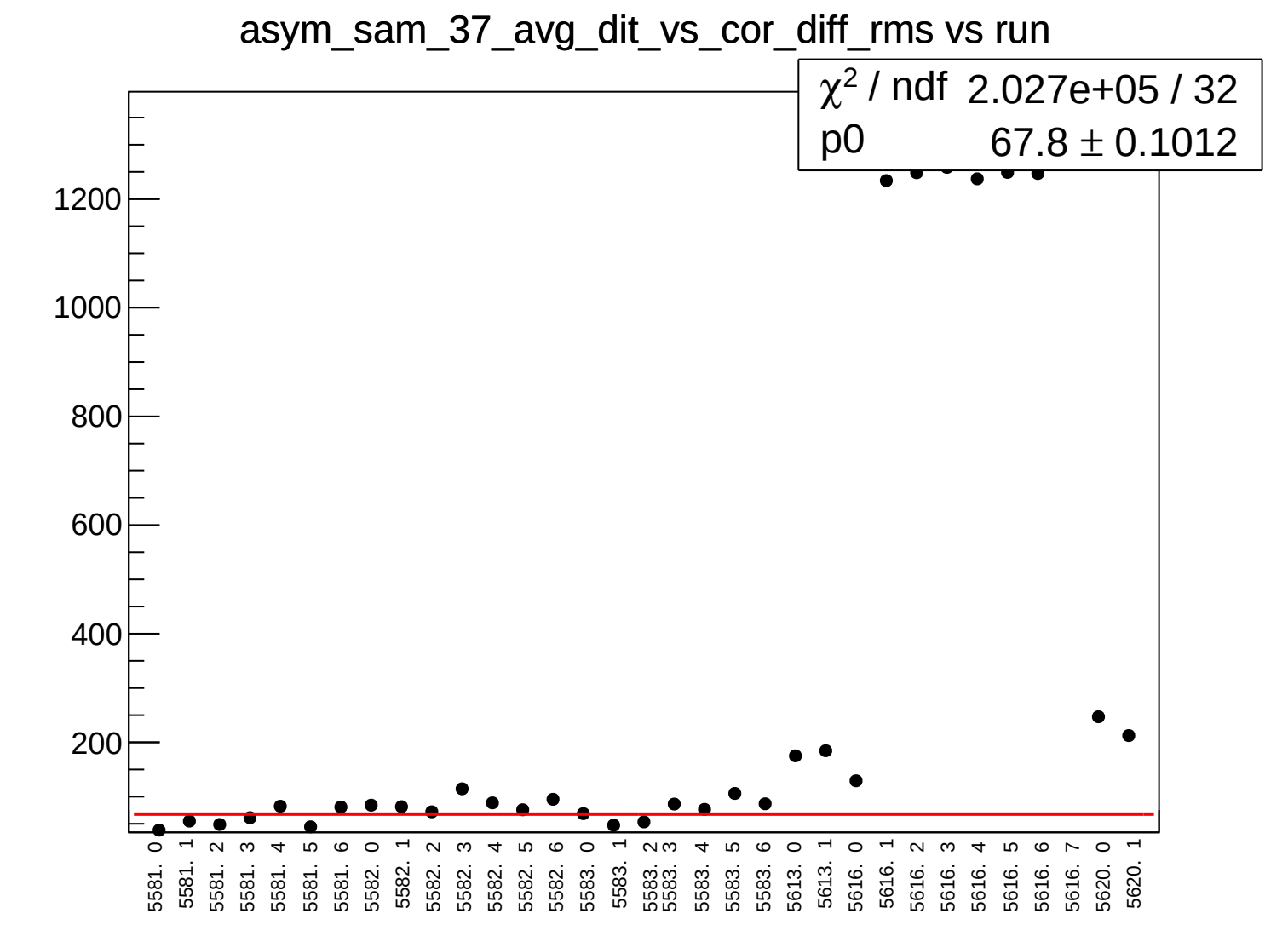

asym_sam_37_avg_rms vs run
χ² / ndf 2.452e+04 / 32
p0 1070 ± 1.351
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

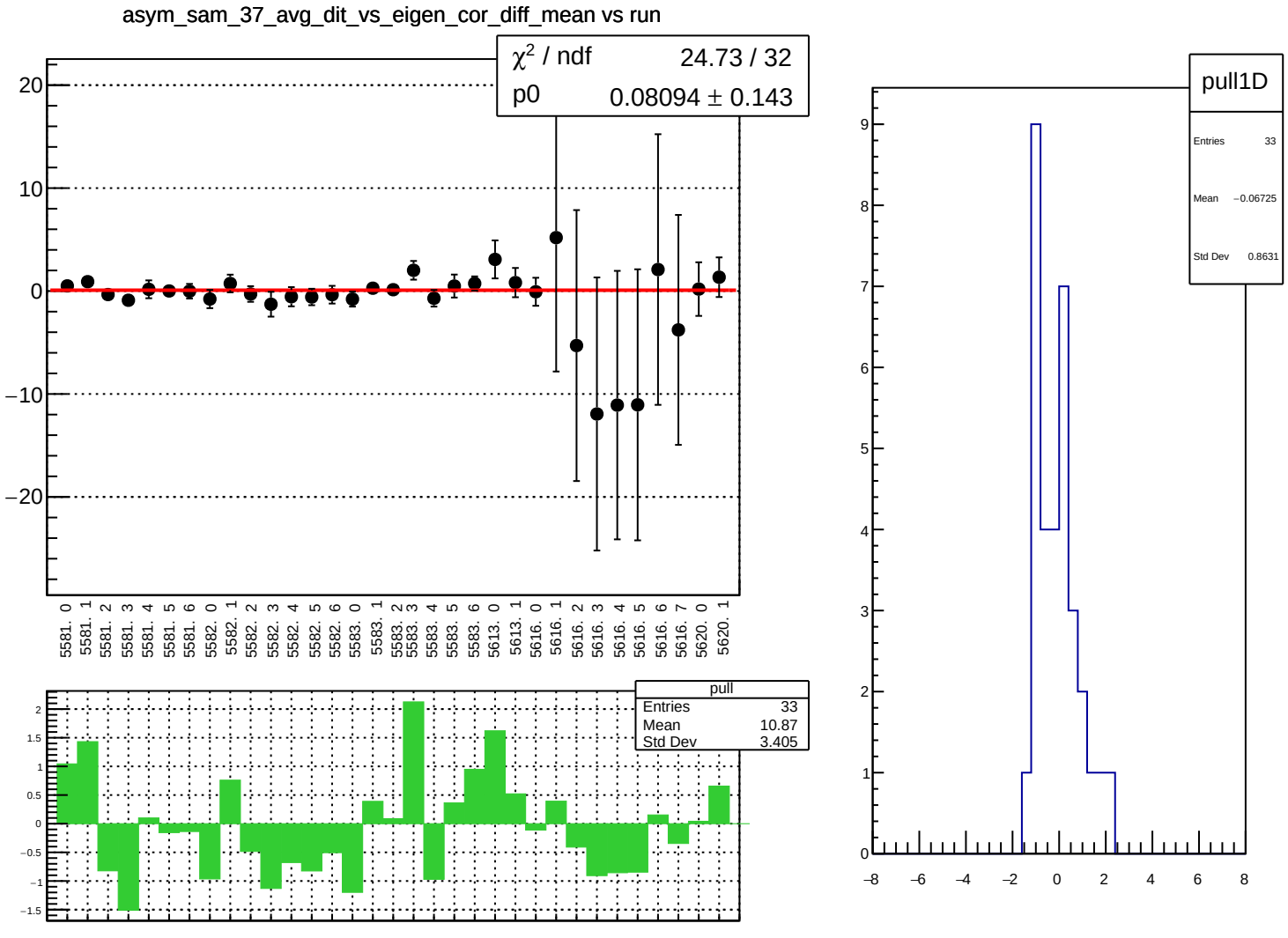

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 27.85 / 32
p0 −4.439e−14 ± 7.024e−14
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.53
Std Dev 8.627
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1691
Std Dev 0.903
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

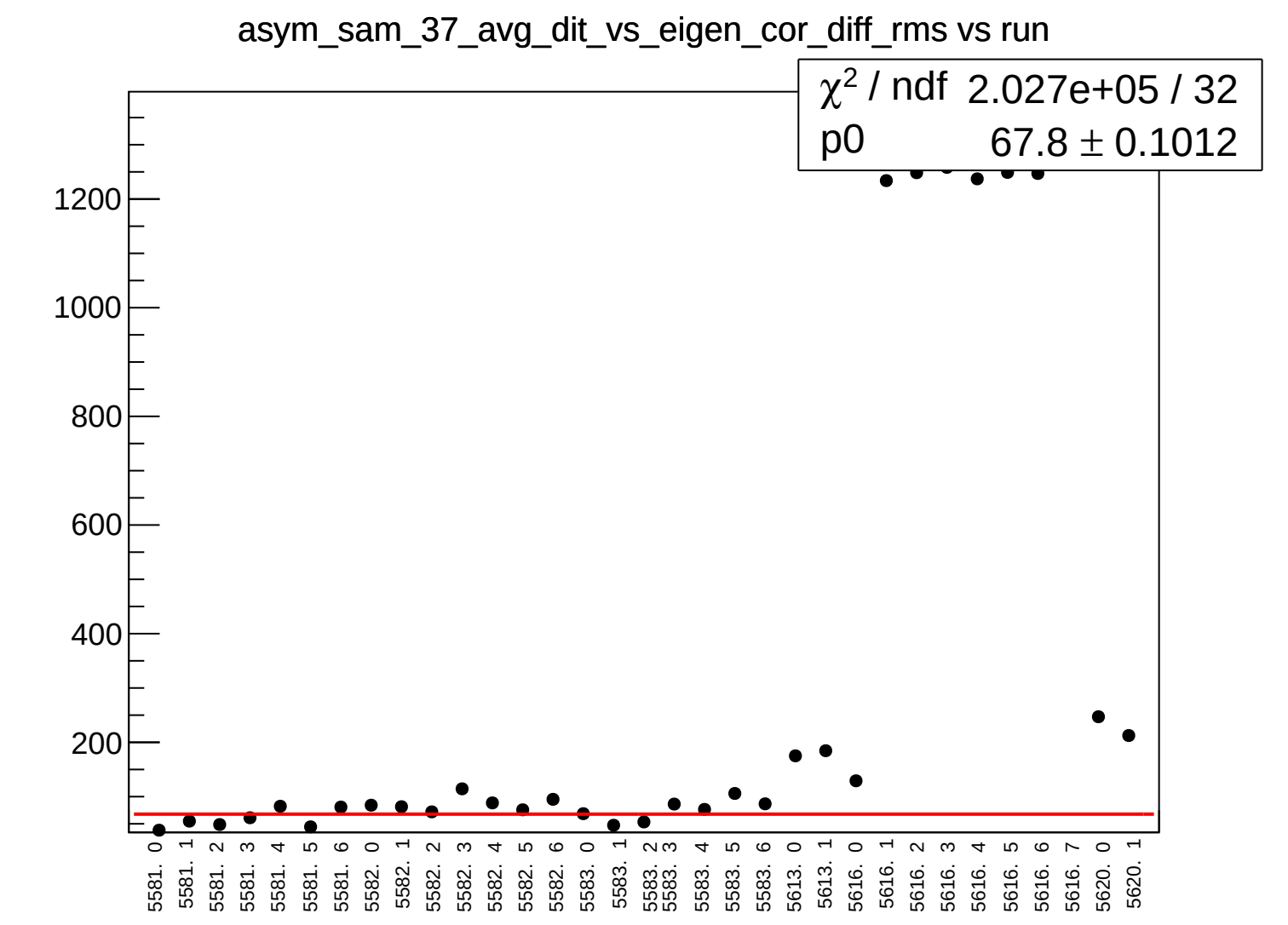

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.585e+05 / 32
p0 2.184e−11 ± 4.967e−14
1800
1600
1400
1200
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

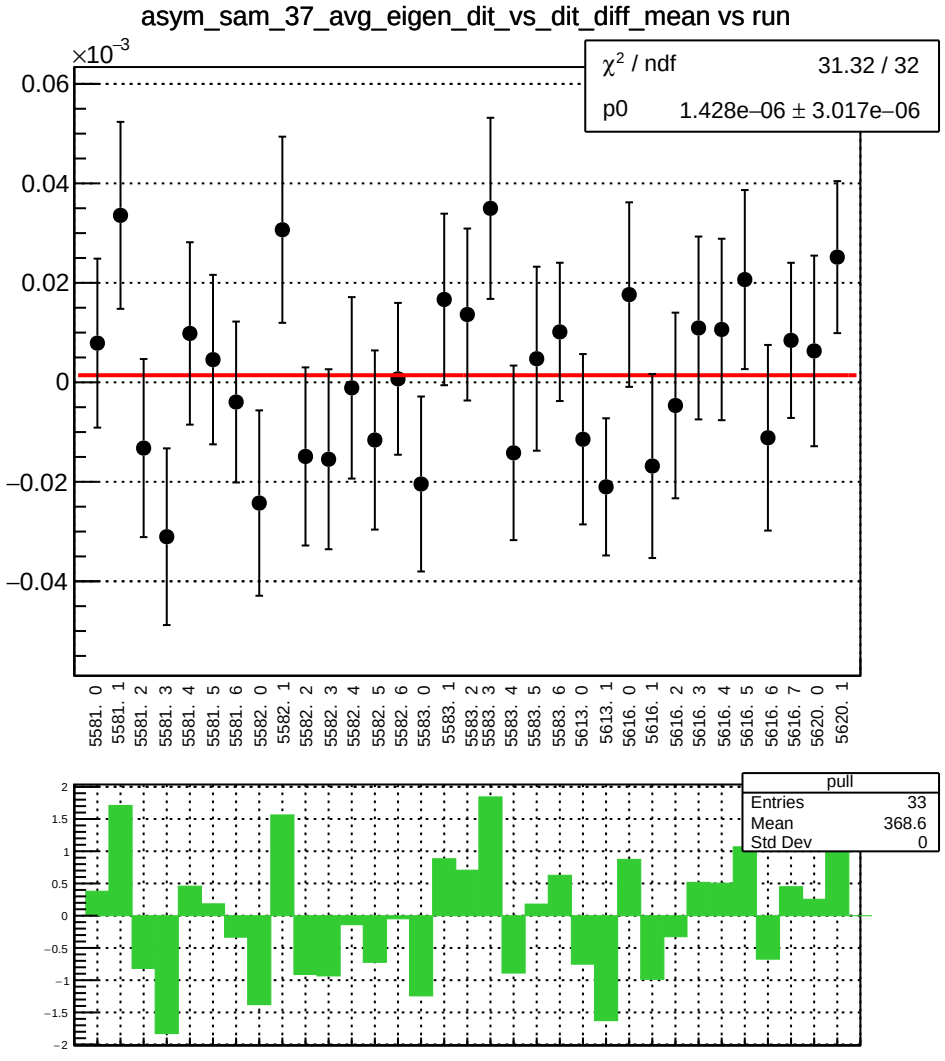

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 24.73 / 32
p0 0.08094 ± 0.143
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 10.87
Std Dev 3.405
2
1.5
1
0.5
0
−0.5
−1
−1.5

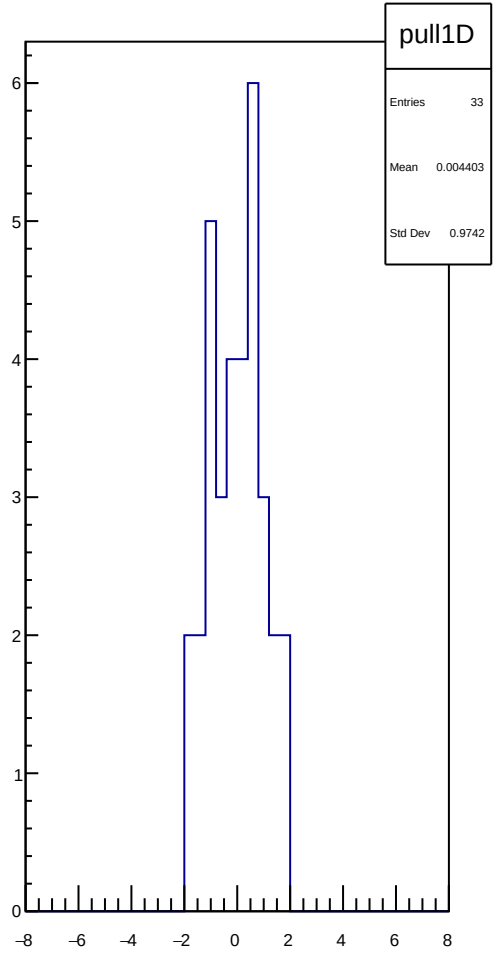

pull1D
Entries 33
Mean −0.06725
Std Dev 0.8631
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

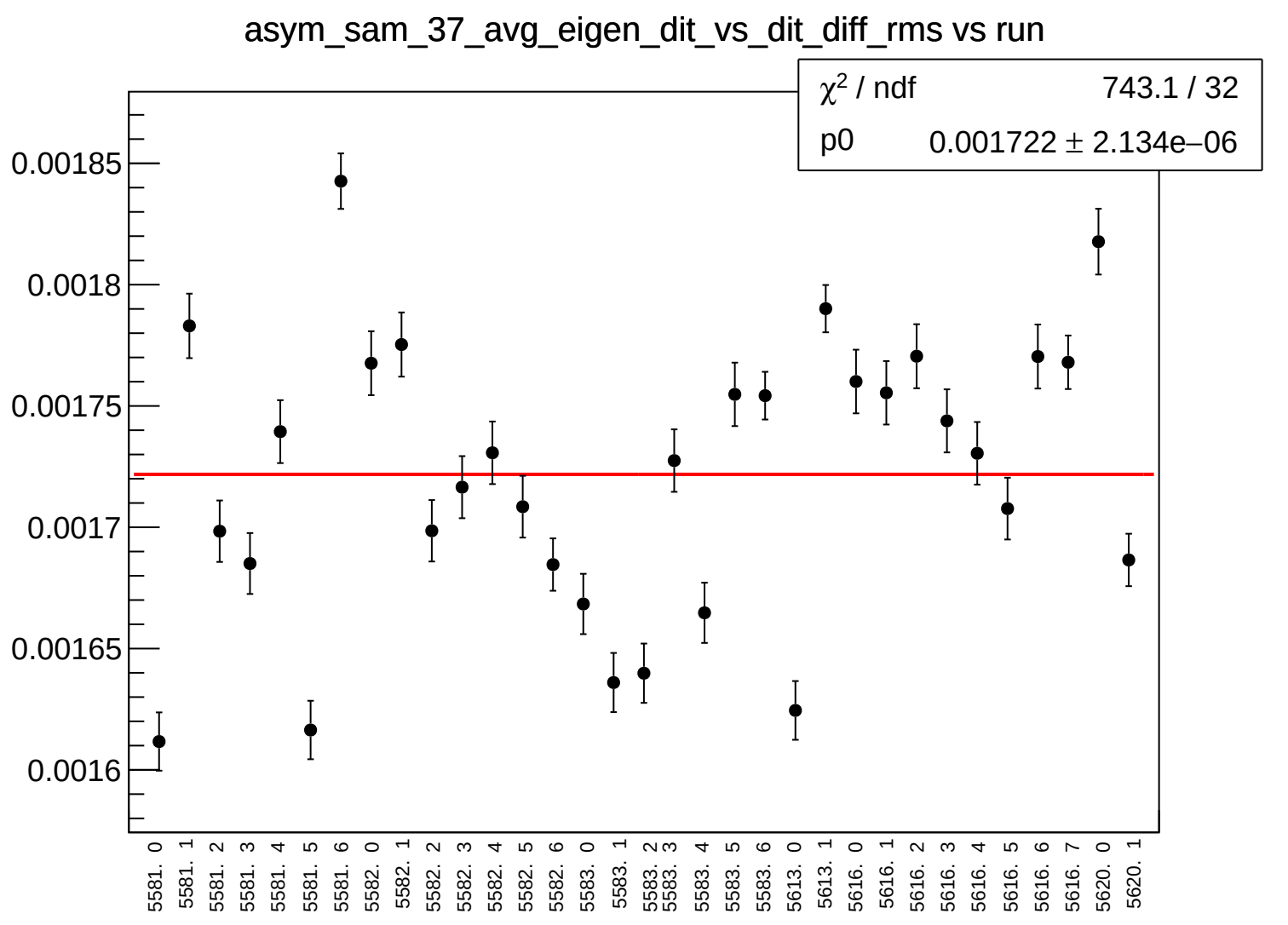

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.027e+05 / 32
p0 67.8 ± 0.1012
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

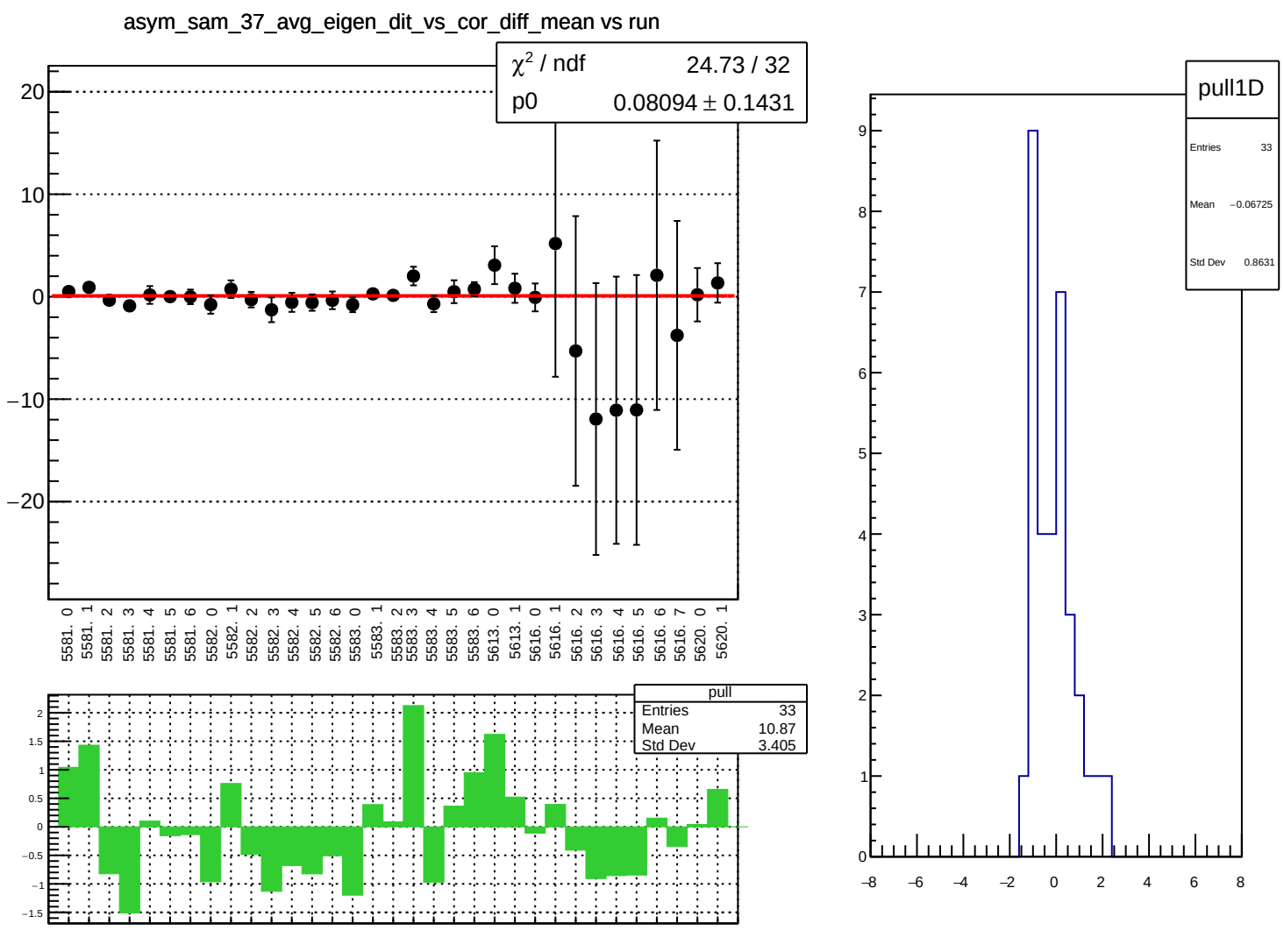

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.73 / 32
p0 0.08094 ± 0.143
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 10.87
Std Dev 3.405
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.06725
Std Dev 0.8631
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

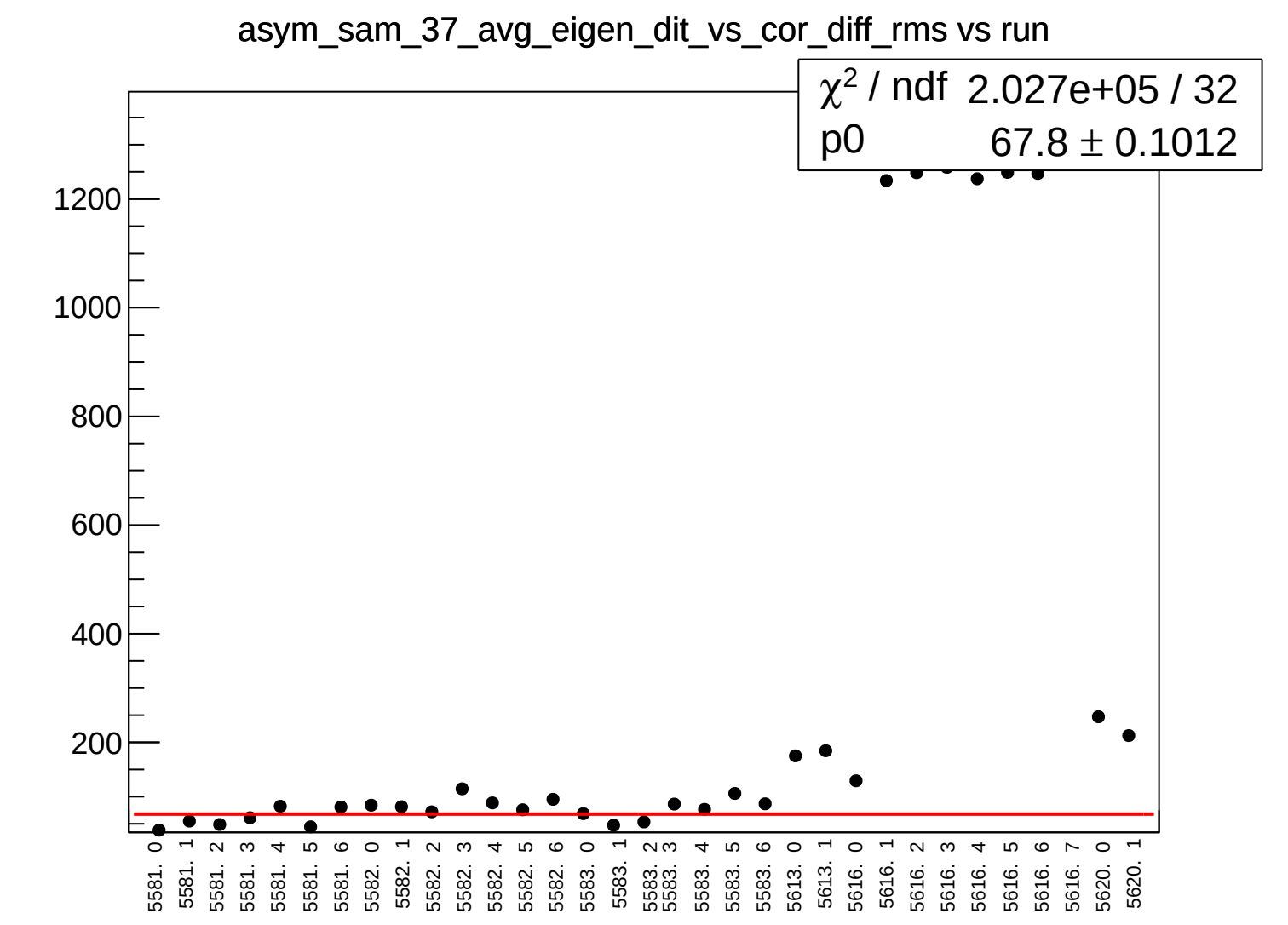

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.027e+05 / 32
p0 67.8 ± 0.1012
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

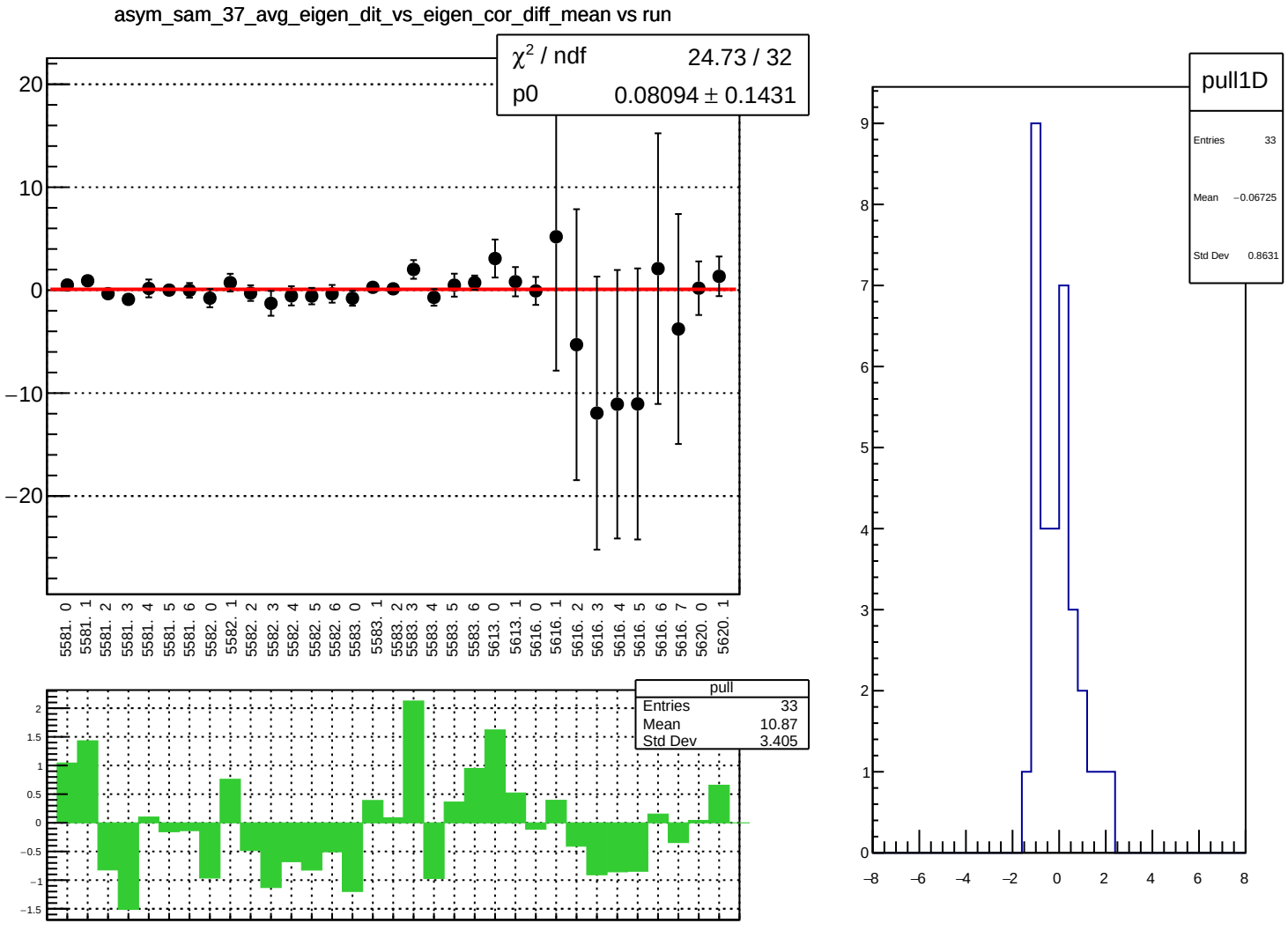

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 31.32 / 32
p0 1.428e−06 ± 3.017e−06
0.06
0.04
0.02
0
−0.02
−0.04
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 368.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

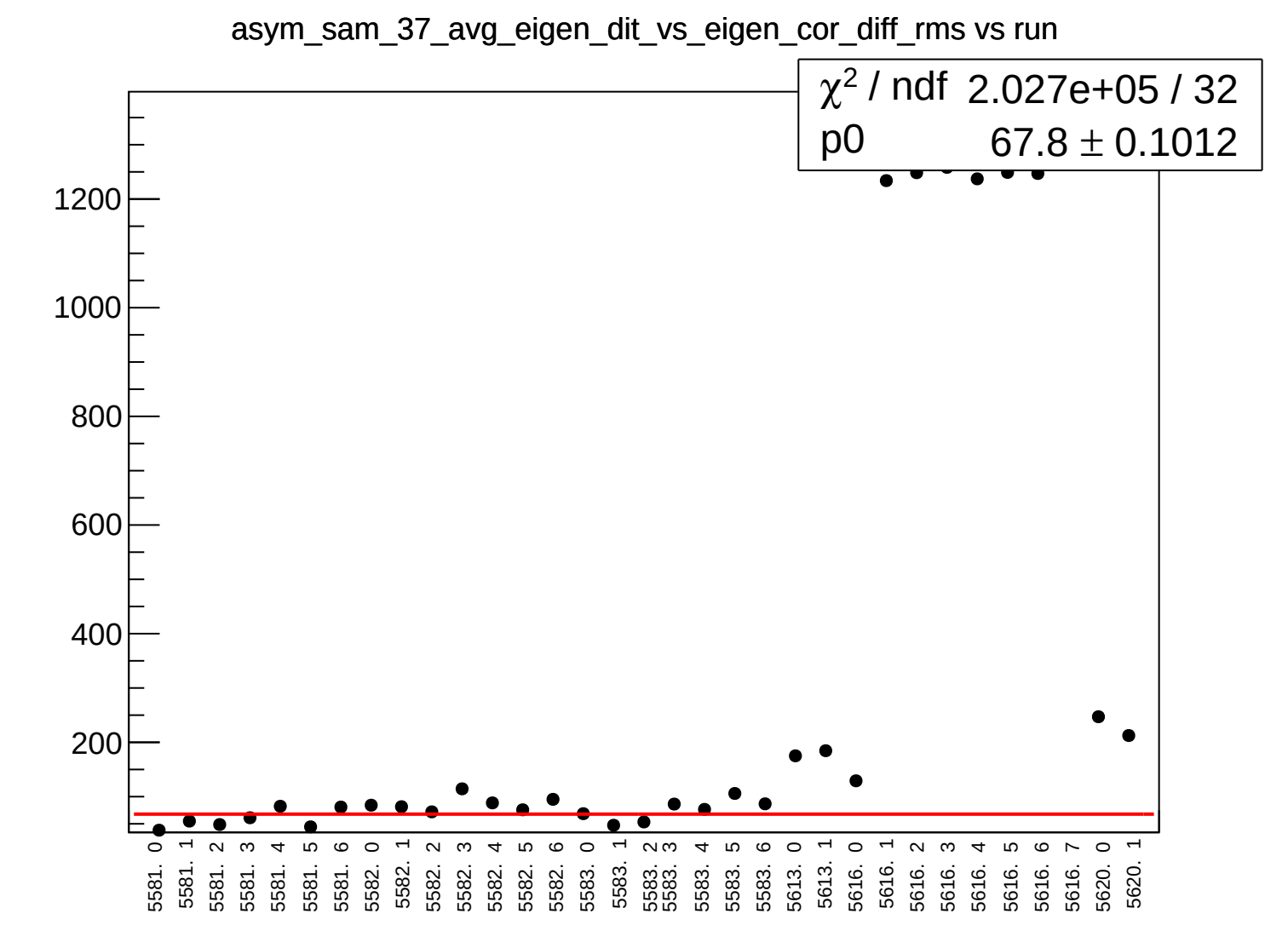

pull1D
Entries 33
Mean 0.004403
Std Dev 0.9742
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

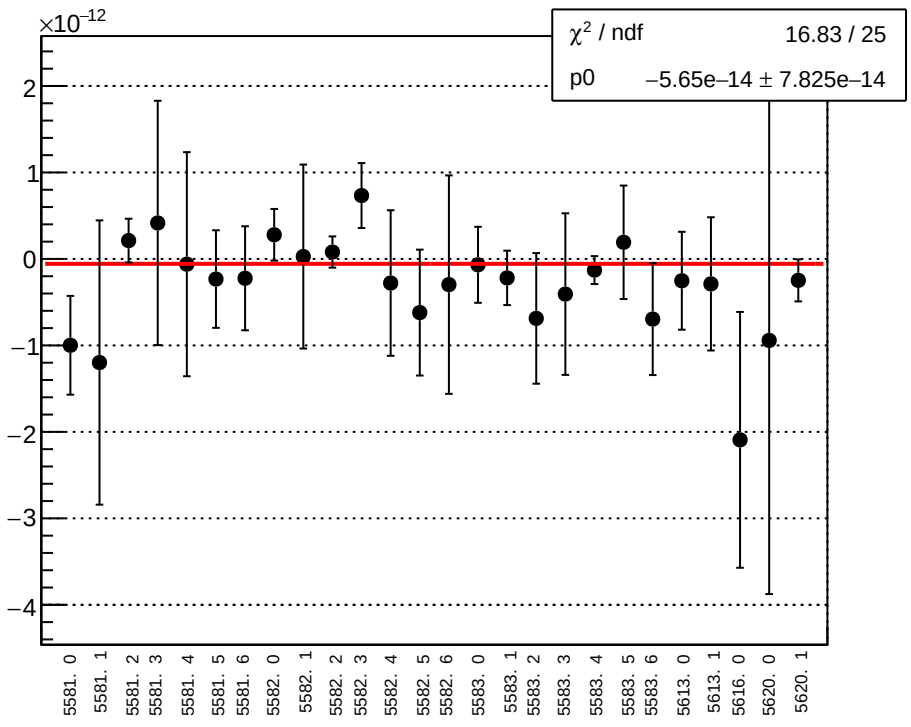

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 743.1 / 32
p0 0.001722 ± 2.134e−06
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

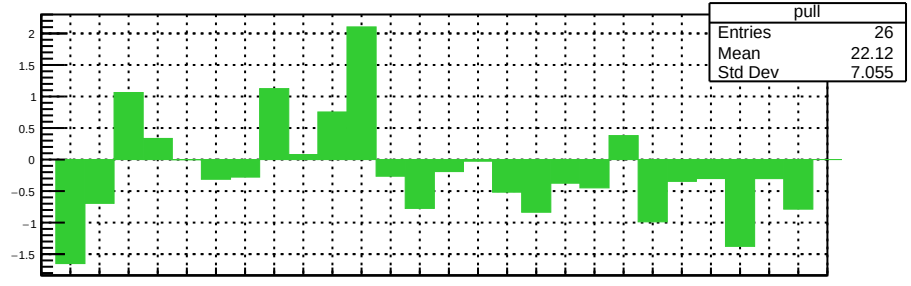

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 24.73 / 32
p0 0.08094 ± 0.1431
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 10.87
Std Dev 3.405
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.06725
Std Dev 0.8631
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

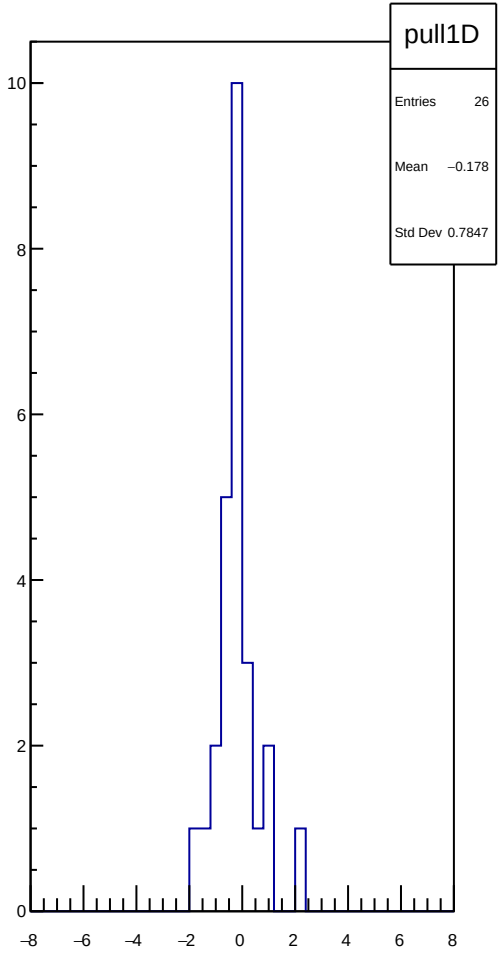

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.027e+05 / 32
p0 67.8 ± 0.1012
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

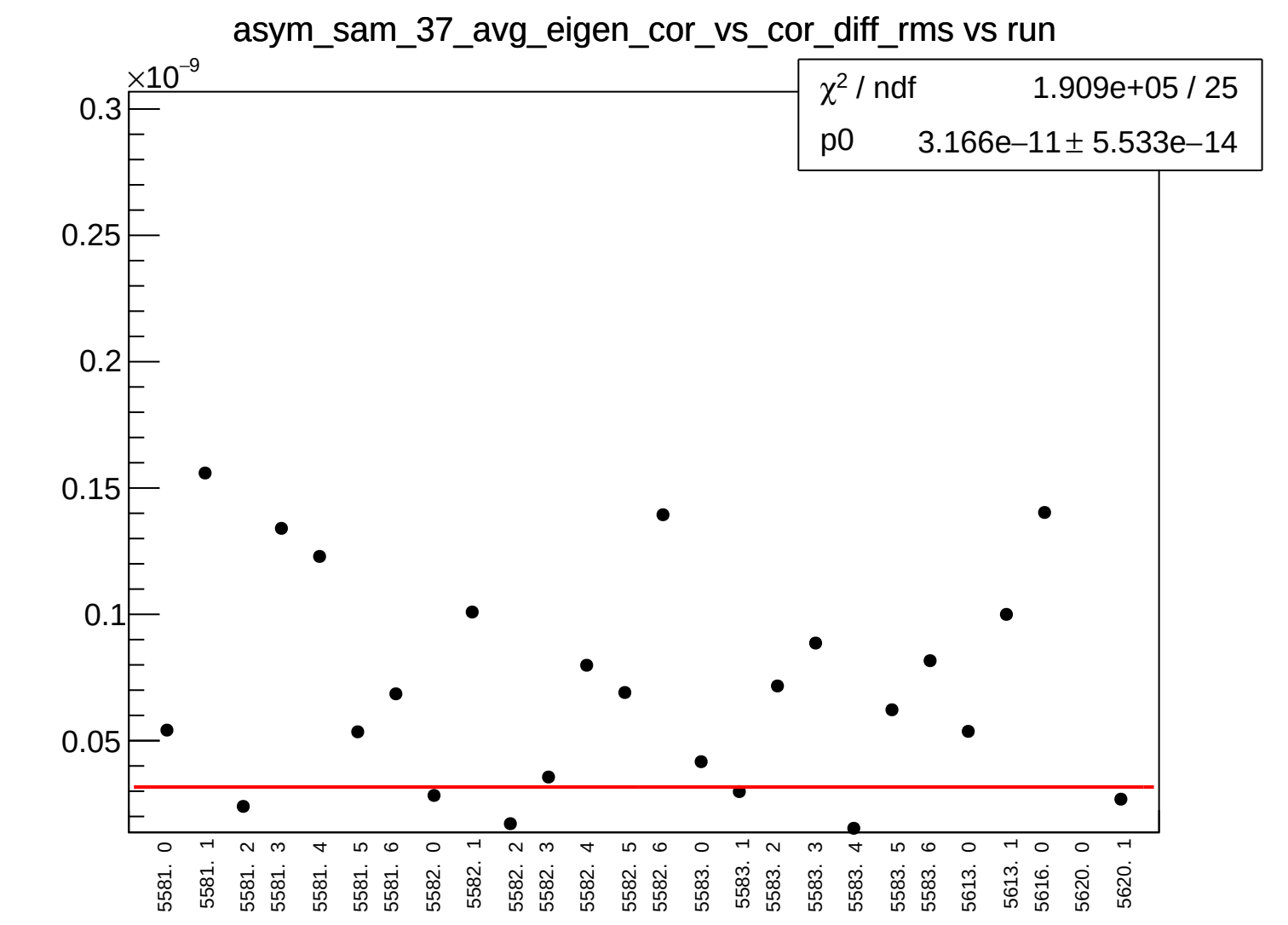

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 24.73 / 32
p0 0.08094 ± 0.1431
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 10.87
Std Dev 3.405
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.06725
Std Dev 0.8631
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

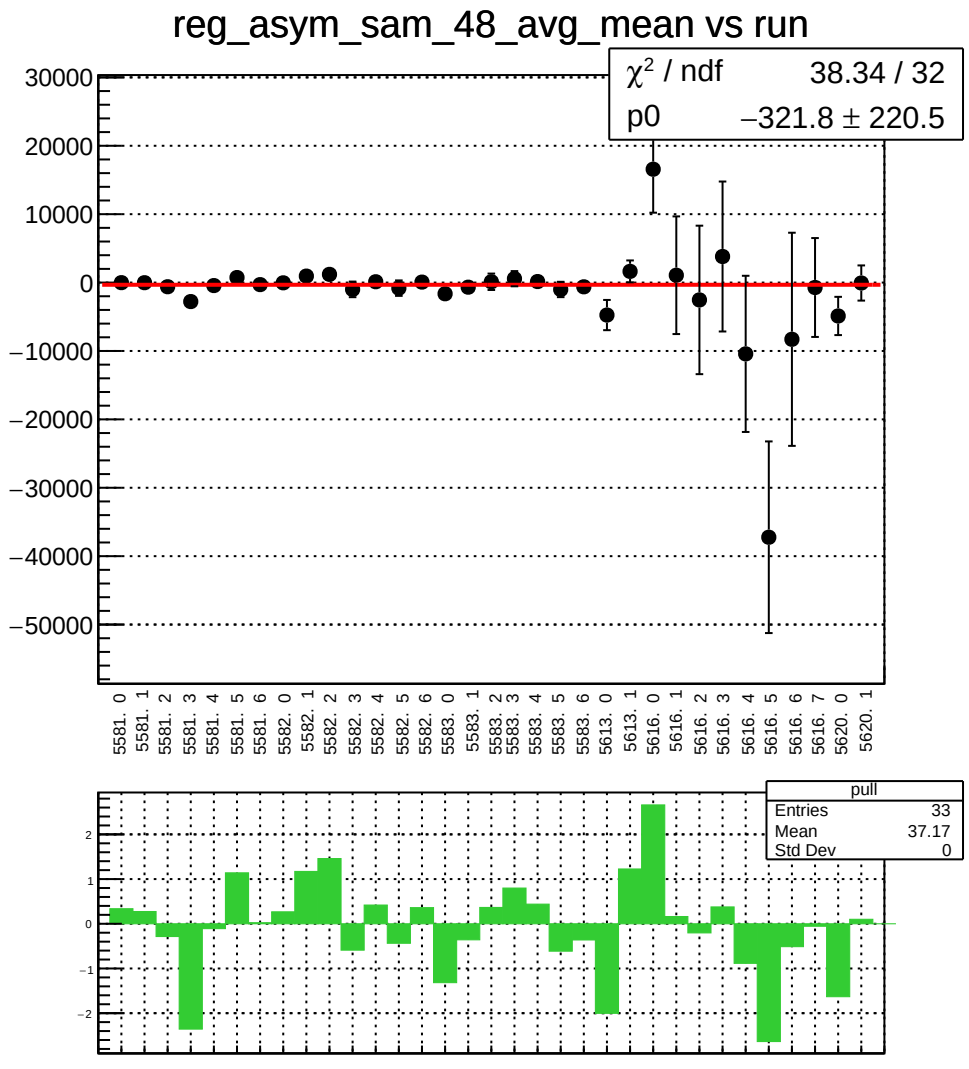

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.027e+05 / 32
p0 67.8 ± 0.1012
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

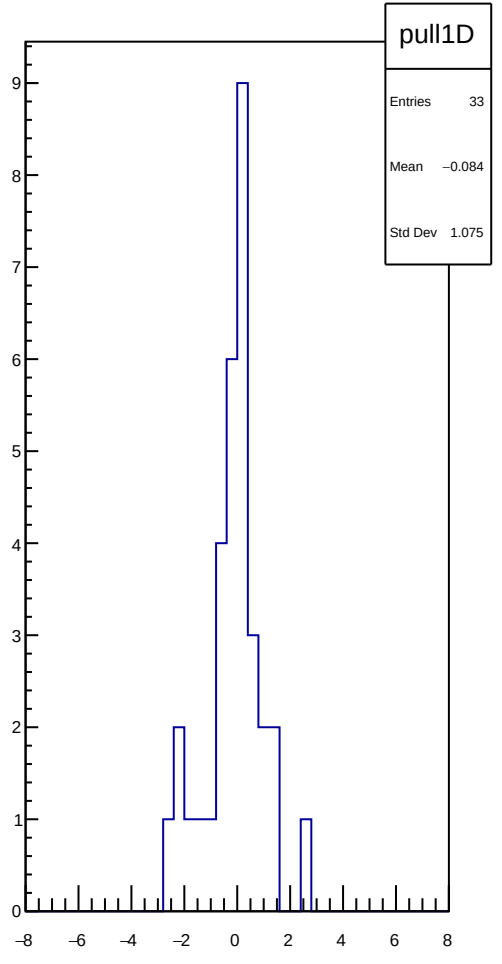

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 16.83 / 25
p0 −5.65e−14 ± 7.825e−14
2
1
0
−1
−2
−3
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

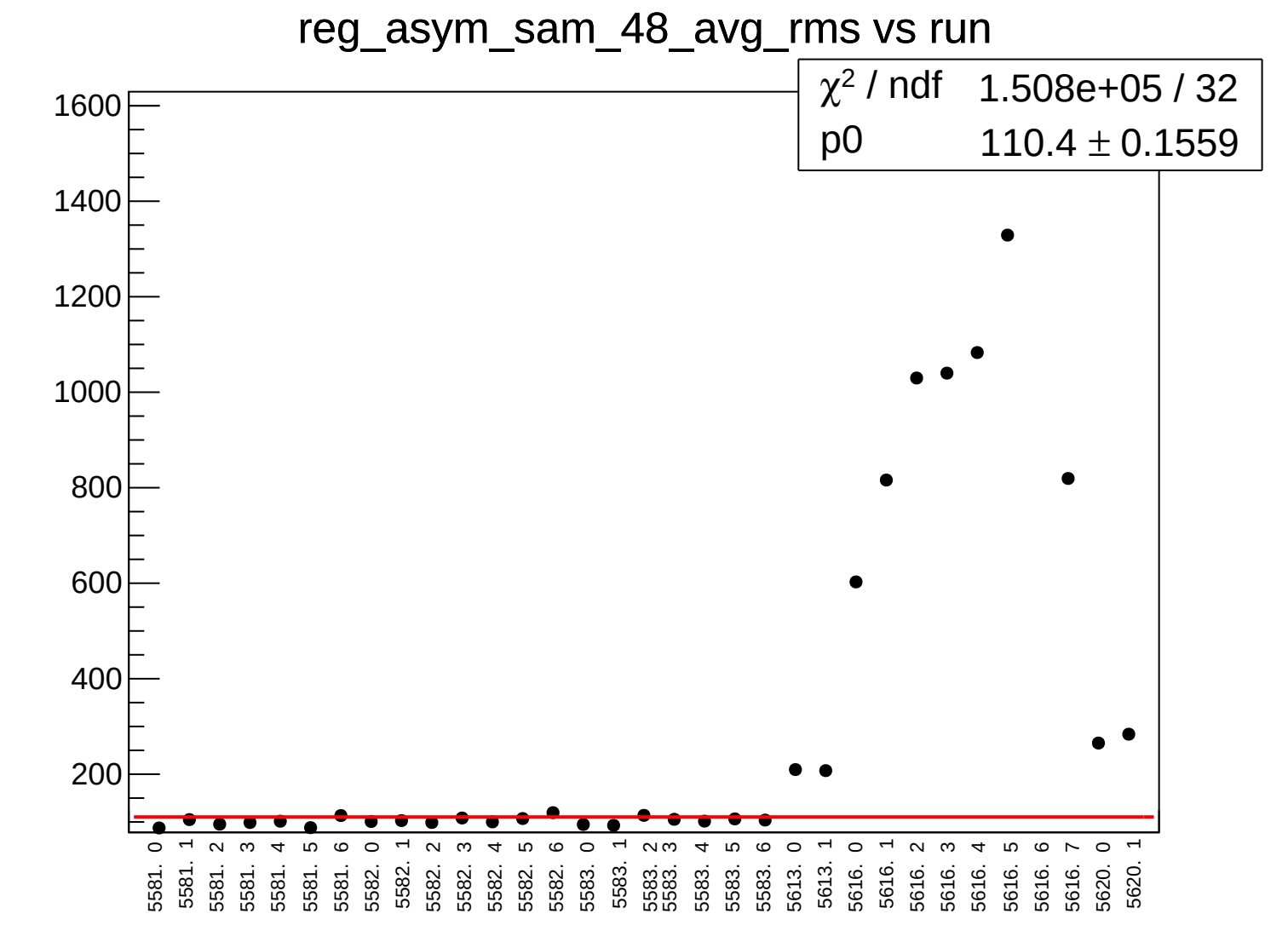

pull
Entries 26
Mean 22.12
Std Dev 7.055
2
1.5
1
0.5
0
−0.5
−1
−1.5

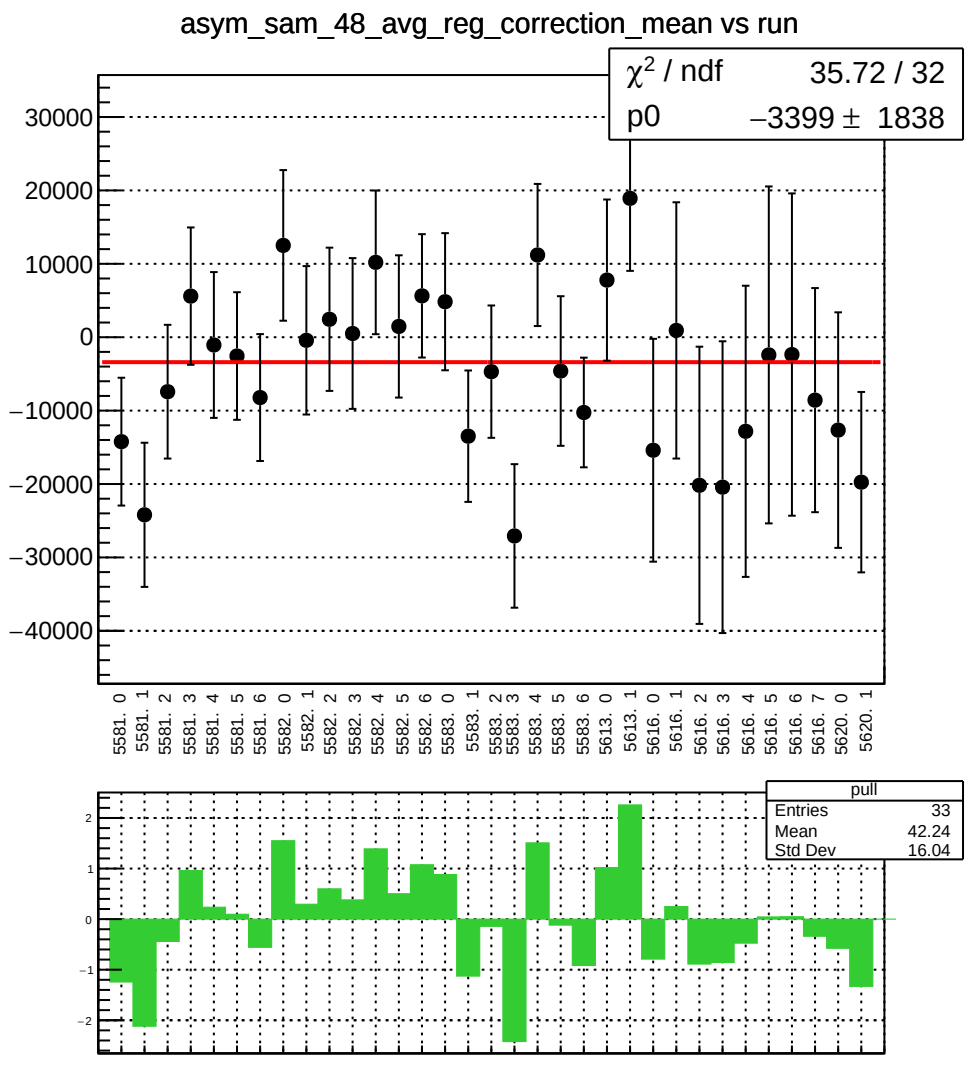

pull1D
Entries 26
Mean −0.178
Std Dev 0.7847
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

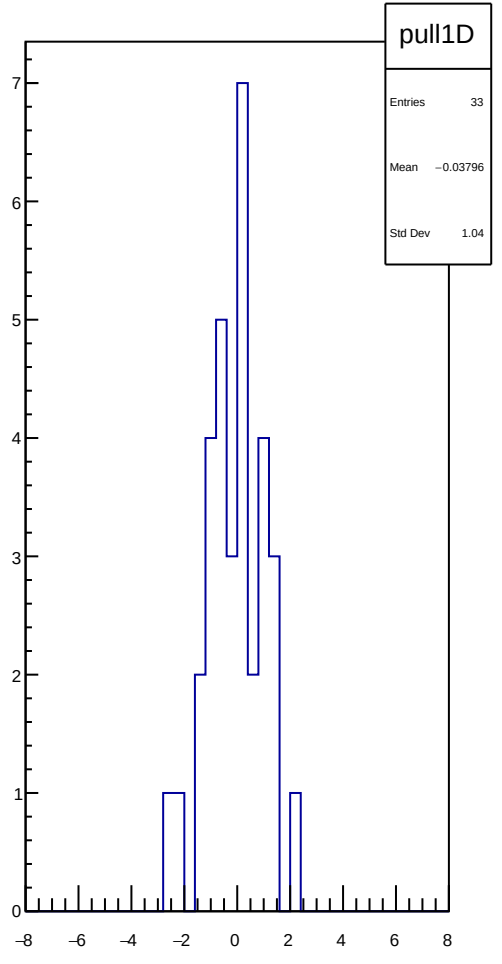

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.909e+05 / 25
p0 3.166e−11 ± 5.533e−14
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

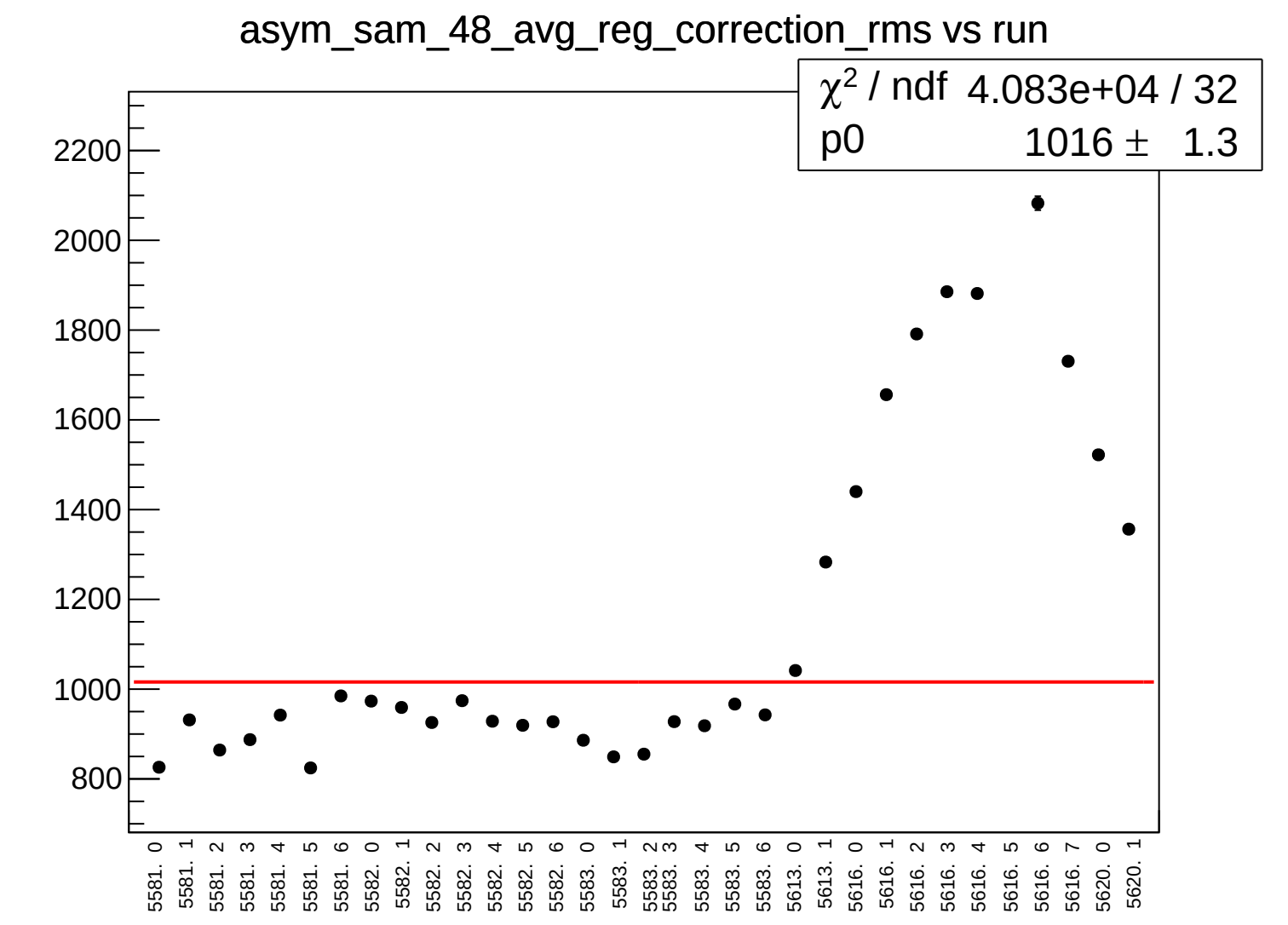

reg_asym_sam_48_avg_mean vs run
χ² / ndf 38.34 / 32
p0 −321.8 ± 220.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.17
Std Dev 0
2
1
0
−1
−2

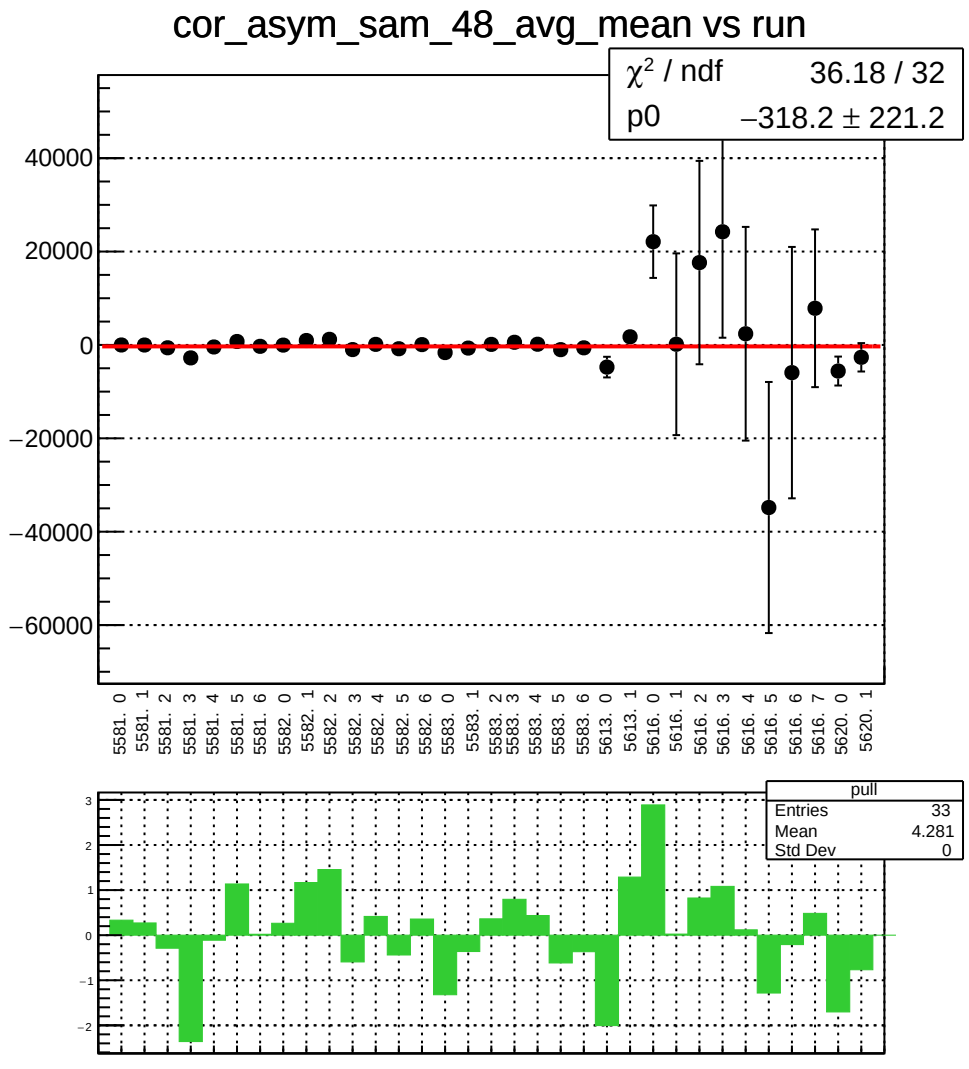

pull1D
Entries 33
Mean −0.084
Std Dev 1.075
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

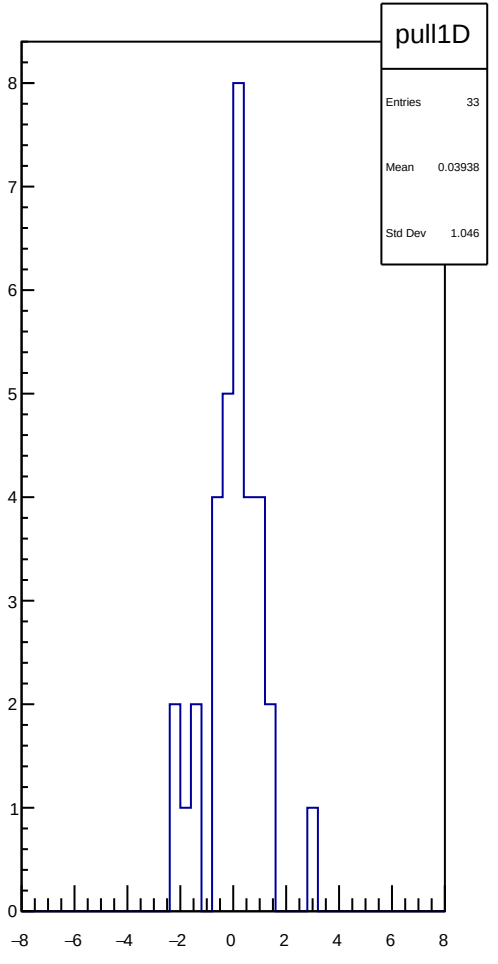

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.508e+05 / 32
p0 110.4 ± 0.1559
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

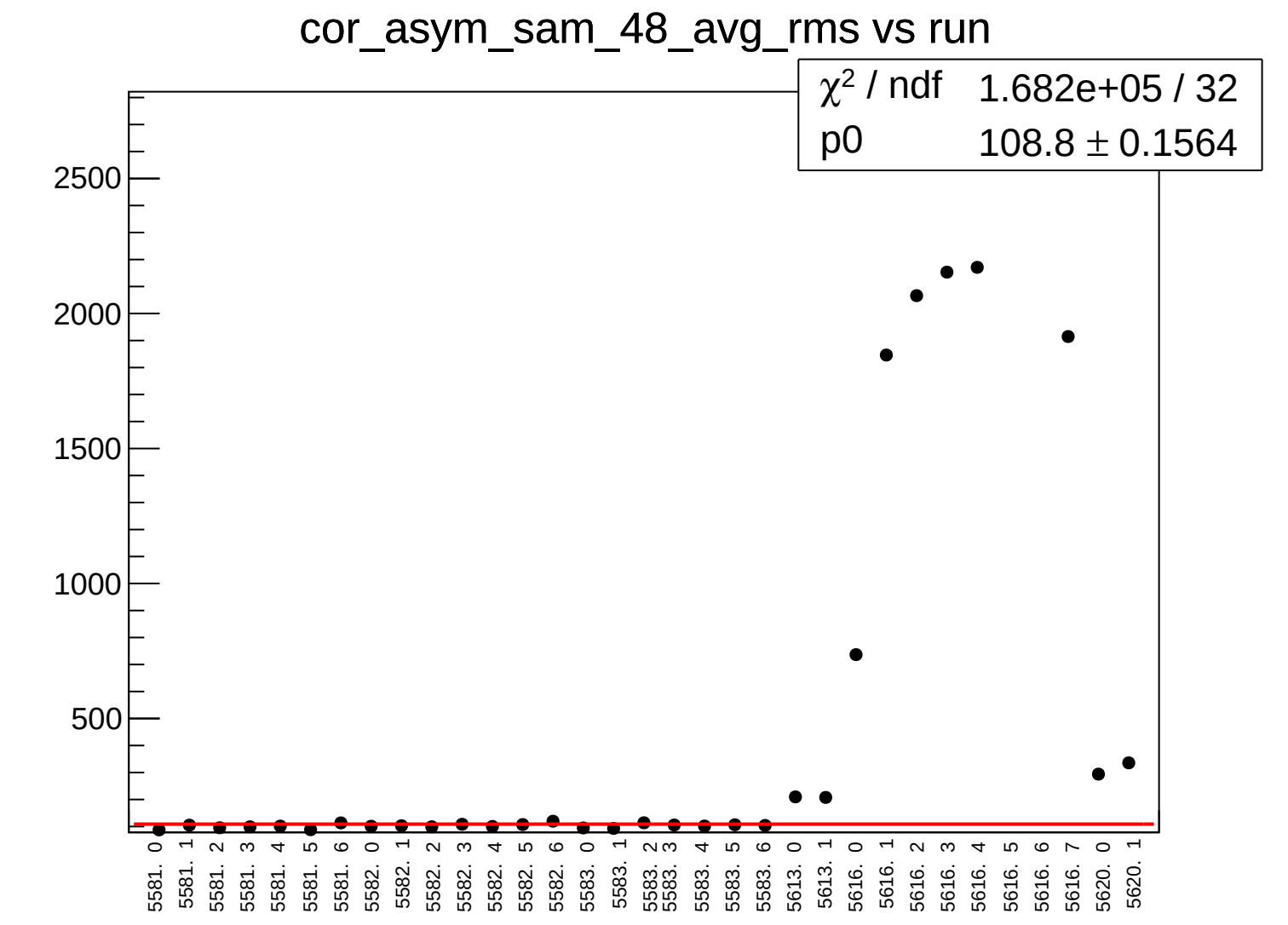

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 35.72 / 32
p0 −3399 ± 1838
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 42.24
Std Dev 16.04
2
1
0
−1
−2

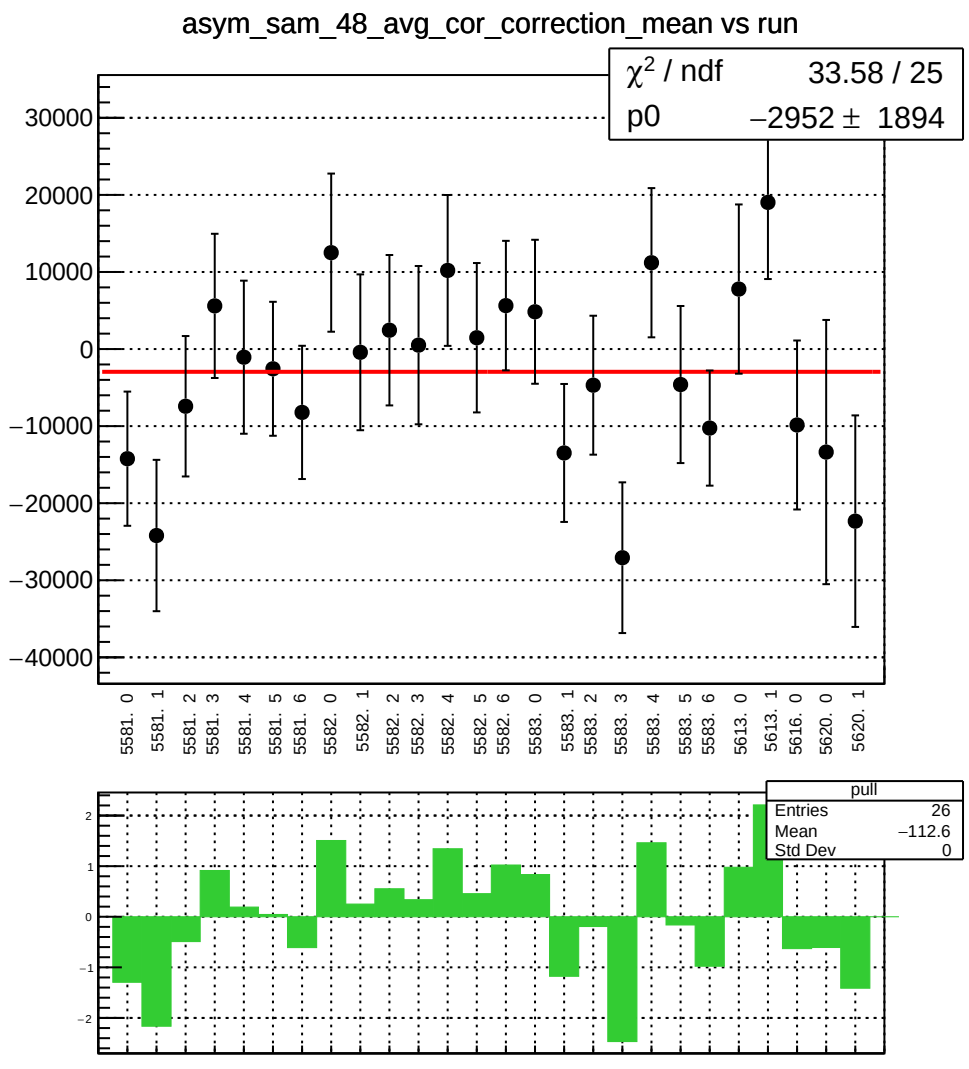

pull1D
Entries 33
Mean −0.03796
Std Dev 1.04
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

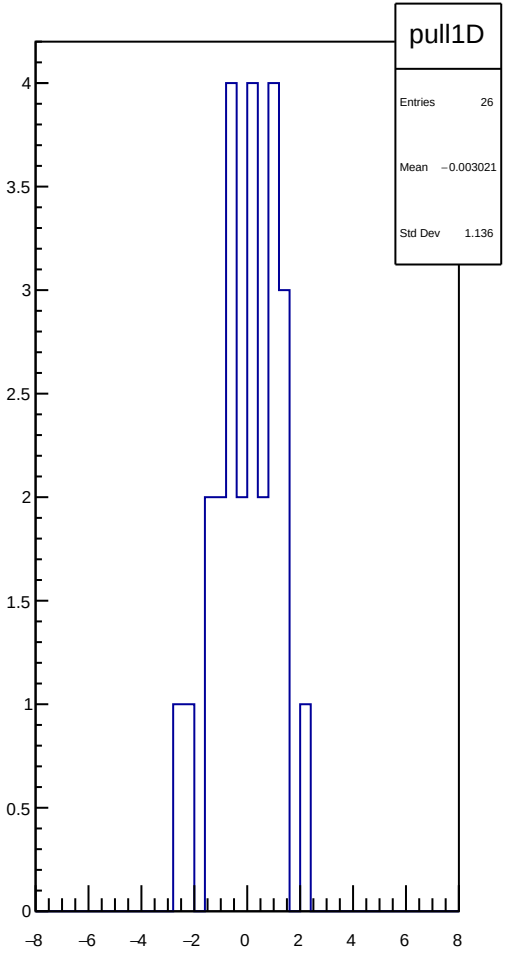

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 4.083e+04 / 32
p0 1016 ± 1.3
2200
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

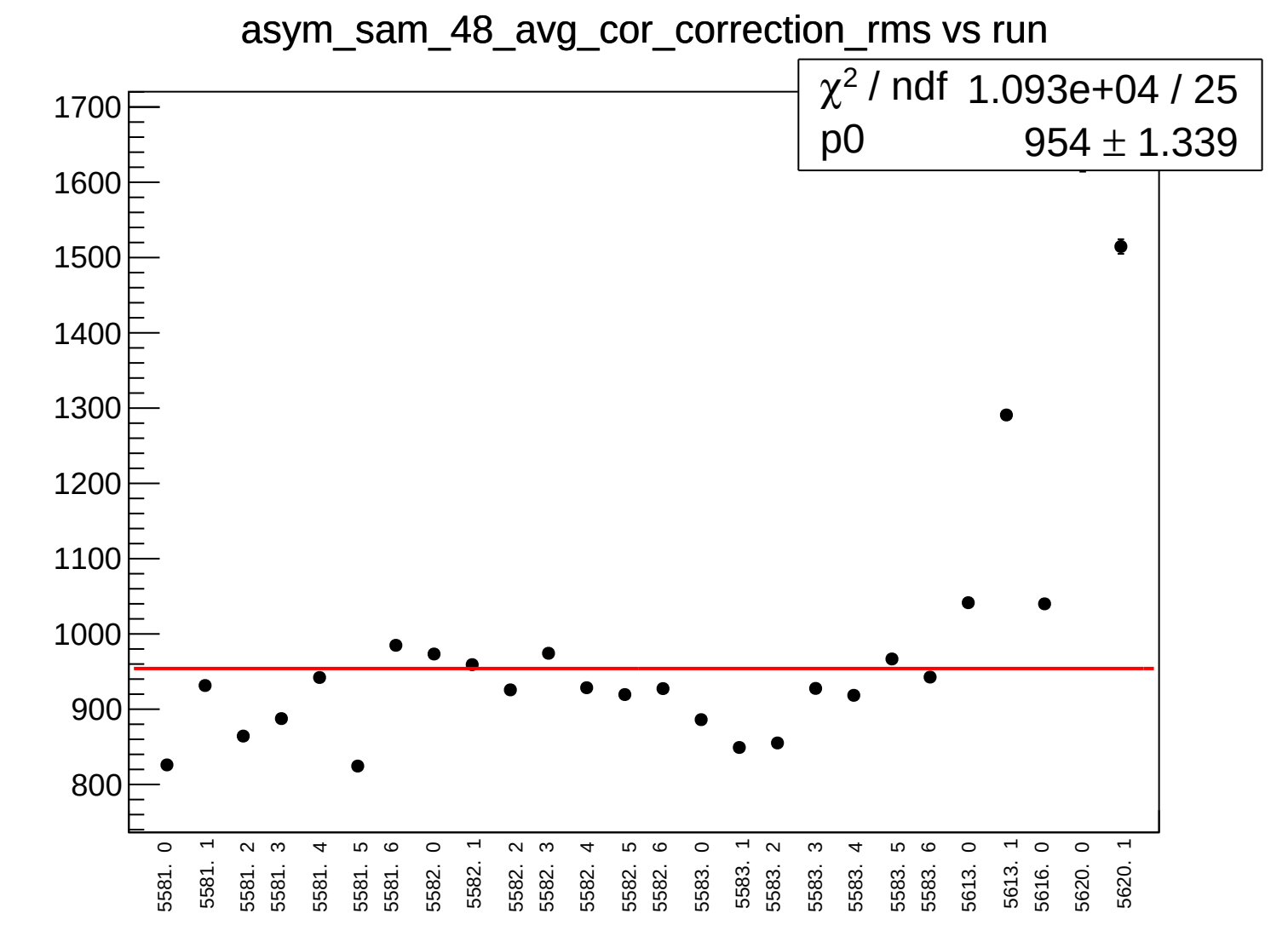

cor_asym_sam_48_avg_mean vs run
χ² / ndf 36.18 / 32
p0 −318.2 ± 221.2
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 4.281
Std Dev 0
3
2
1
0
−1
−2

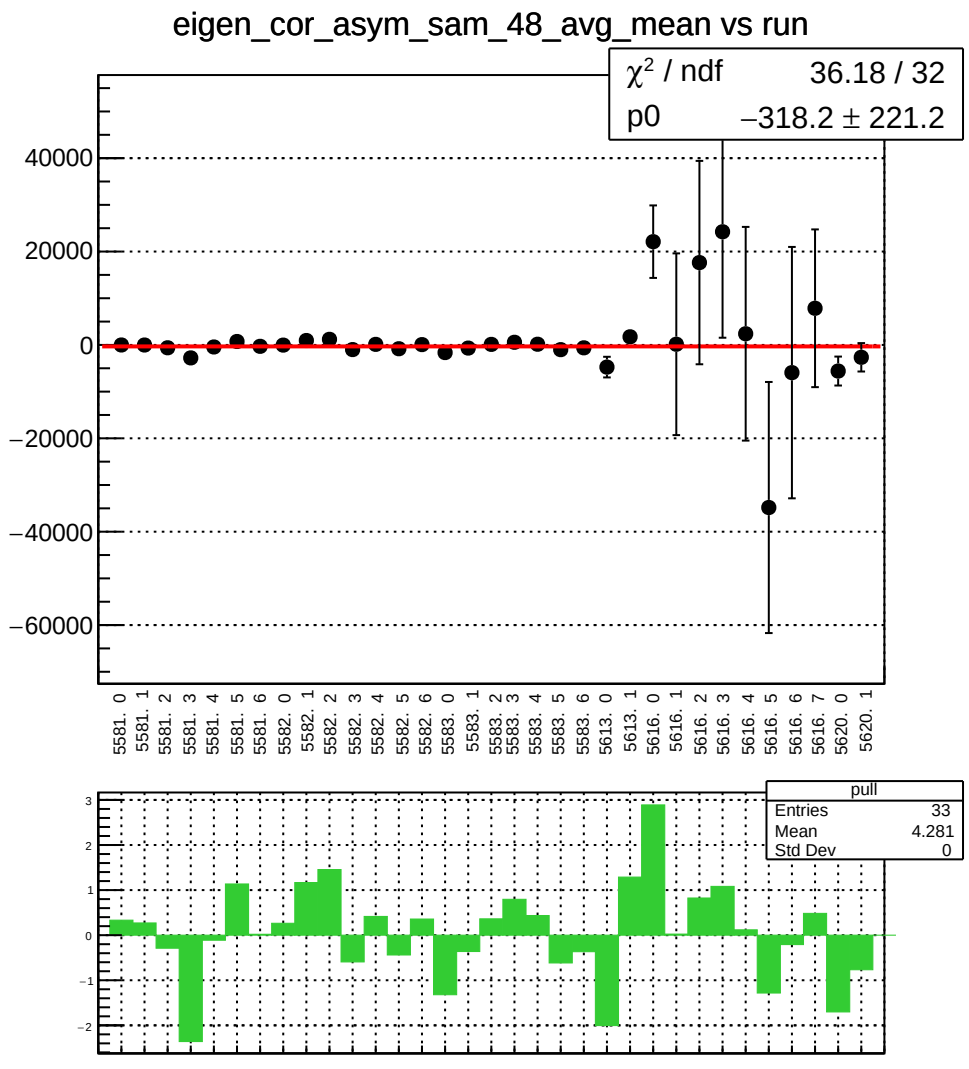

pull1D
Entries 33
Mean 0.03938
Std Dev 1.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

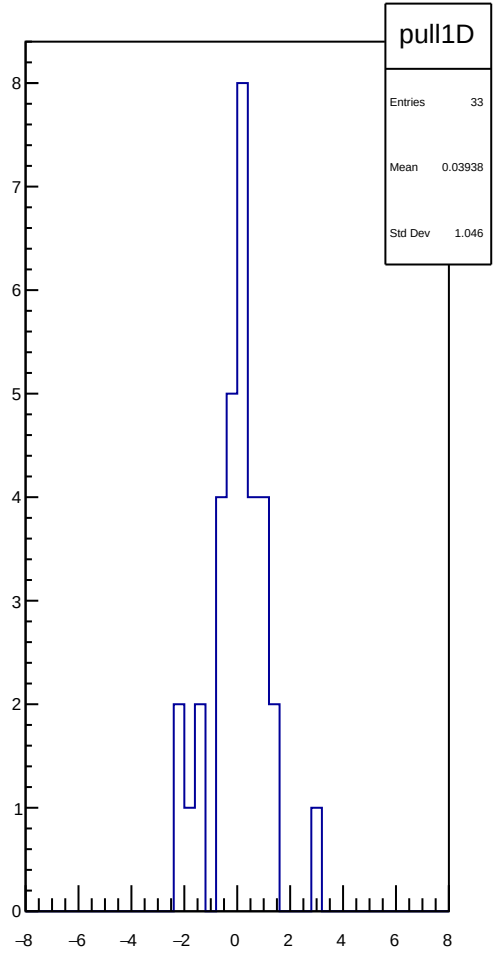

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.682e+05 / 32
p0 108.8 ± 0.1564
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

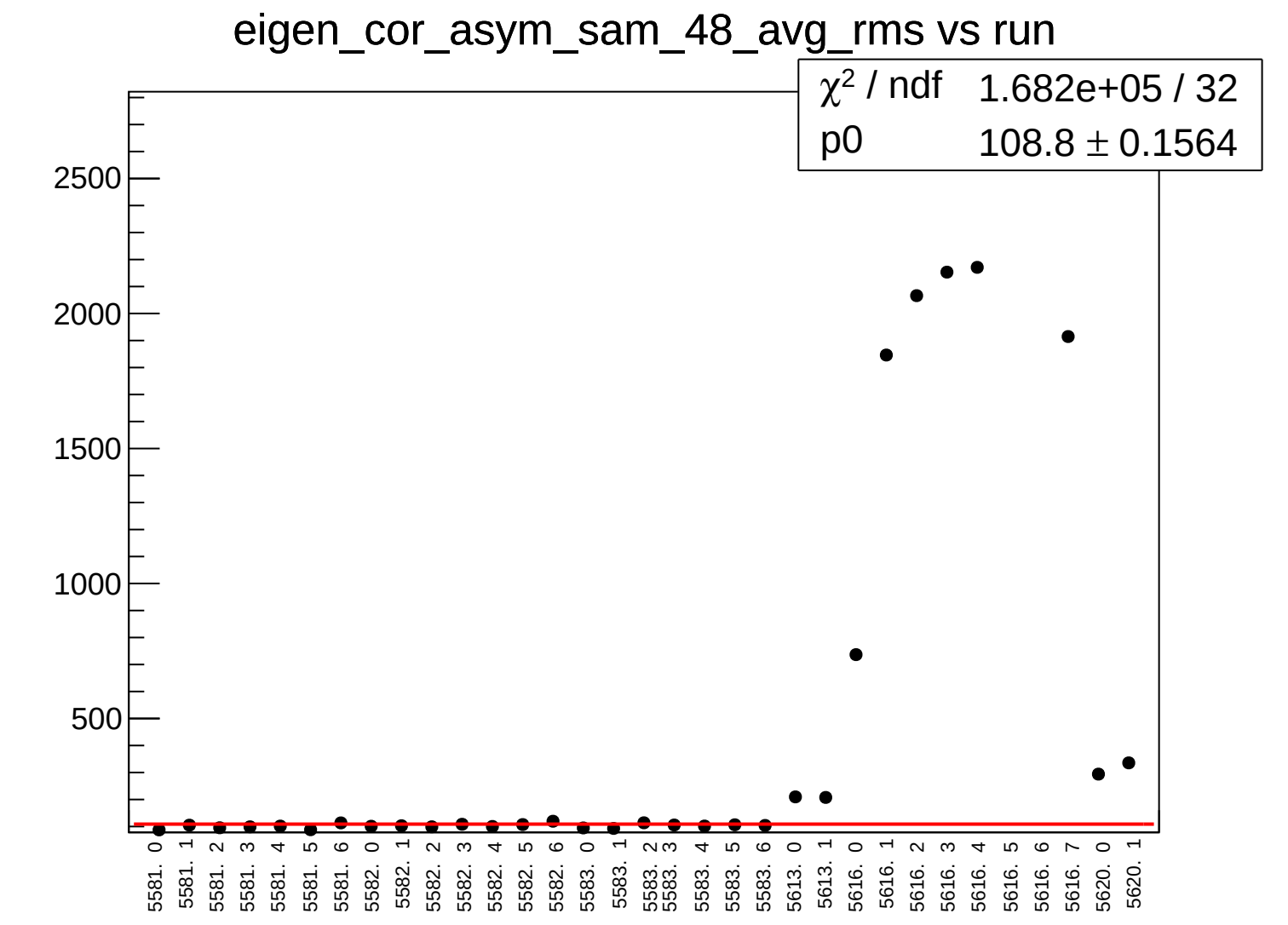

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 33.58 / 25
p0 −2952 ± 1894
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −112.6
Std Dev 0
2
1
0
−1
−2

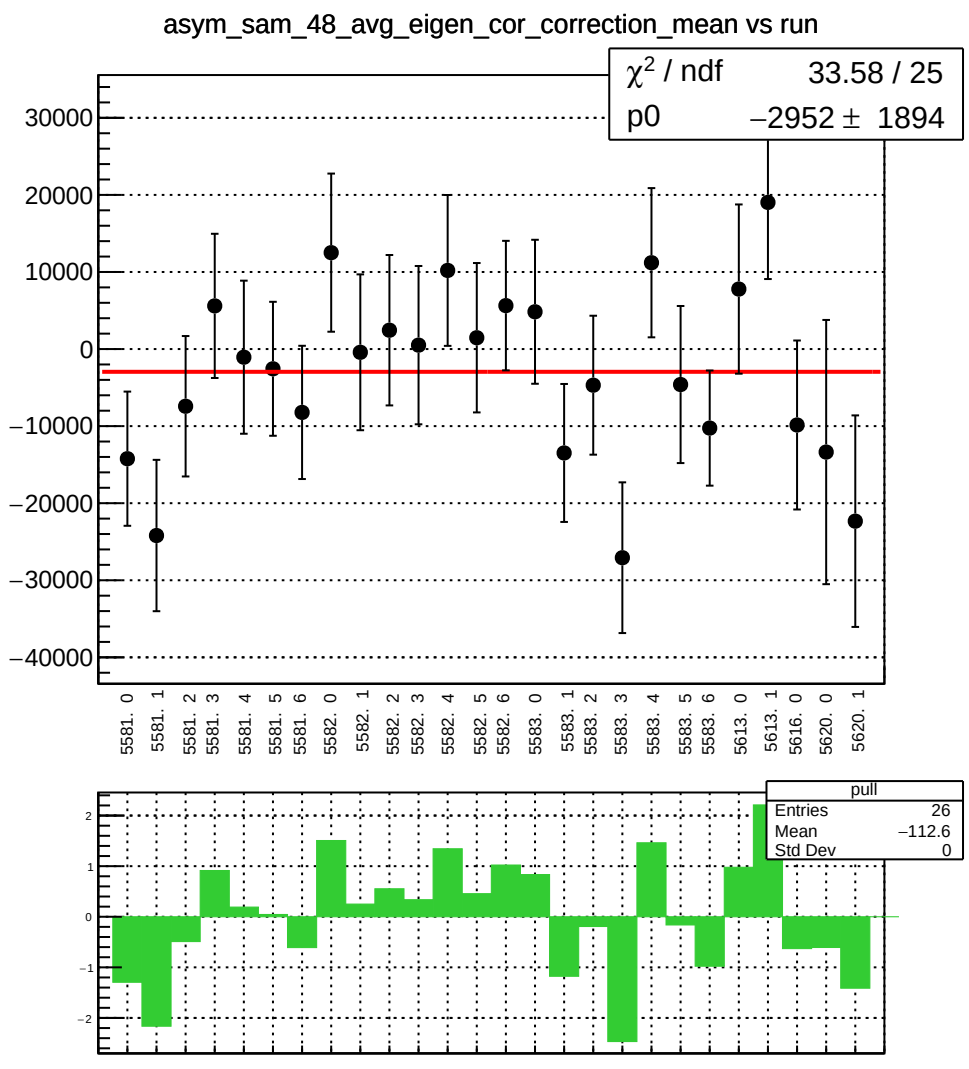

pull1D
Entries 26
Mean −0.003021
Std Dev 1.136
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

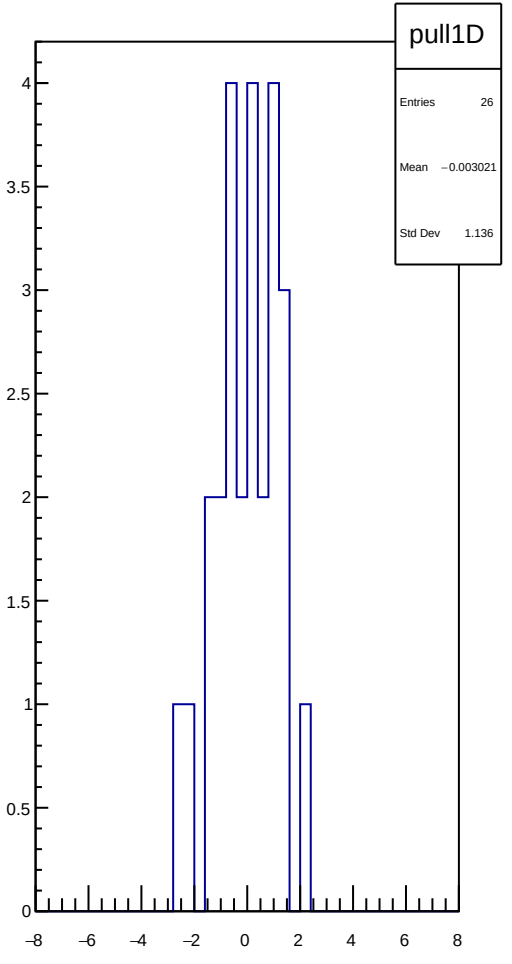

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1.093e+04 / 25
p0 954 ± 1.339
1700
1600
1500
1400
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

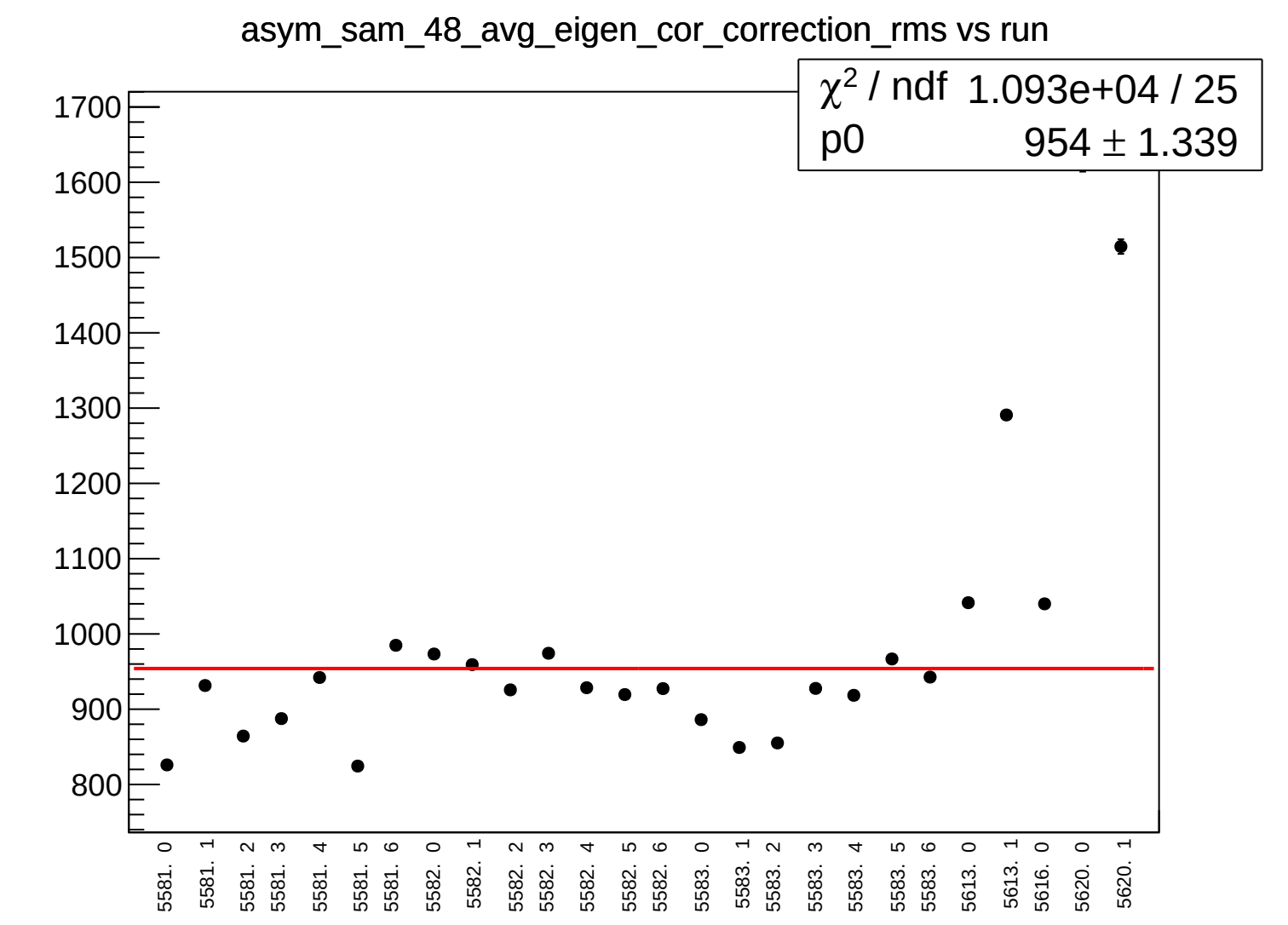

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 36.18 / 32
p0 −318.2 ± 221.2
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 4.281
Std Dev 0
3
2
1
0
−1
−2

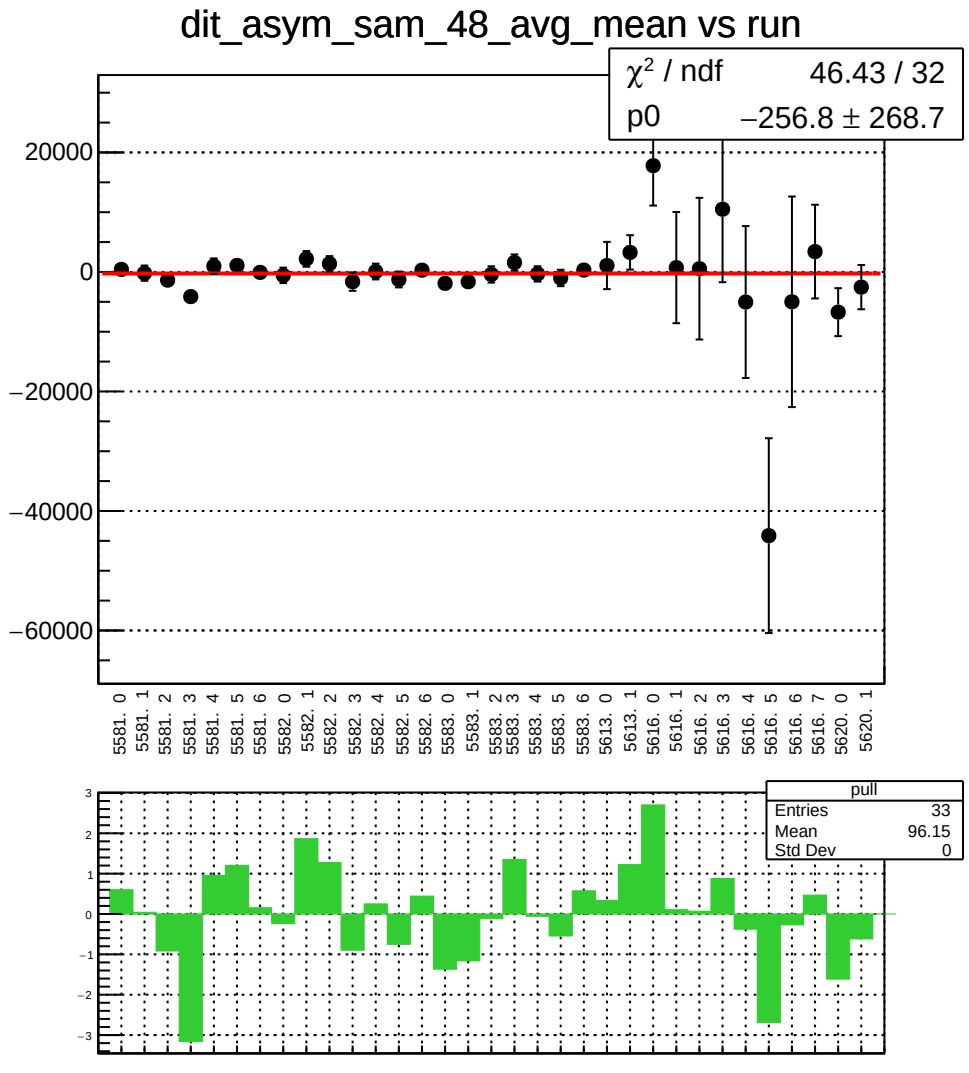

pull1D
Entries 33
Mean 0.03938
Std Dev 1.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

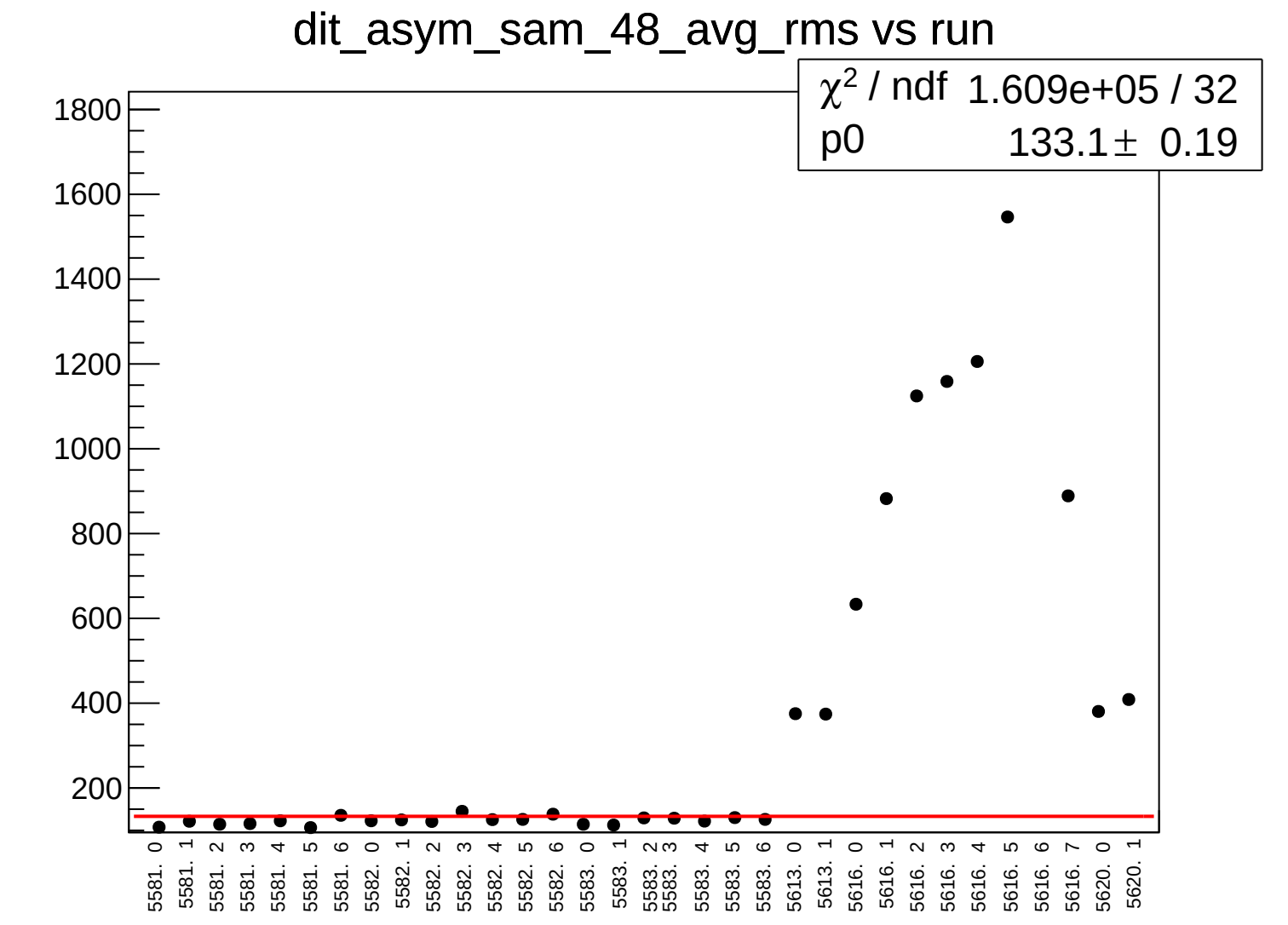

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.682e+05 / 32
p0 108.8 ± 0.1564
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

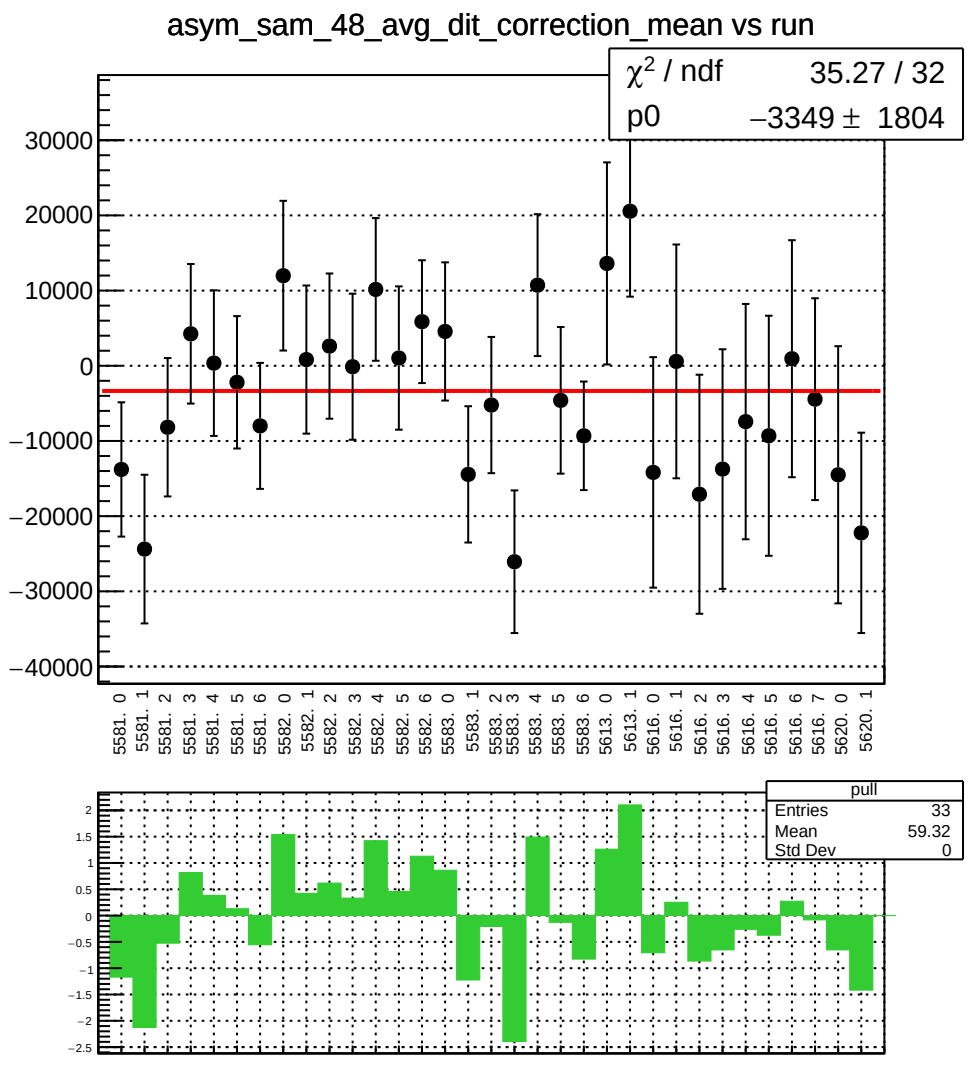

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 33.58 / 25
p0 −2952 ± 1894
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −112.6
Std Dev 0
2
1
0
−1
−2

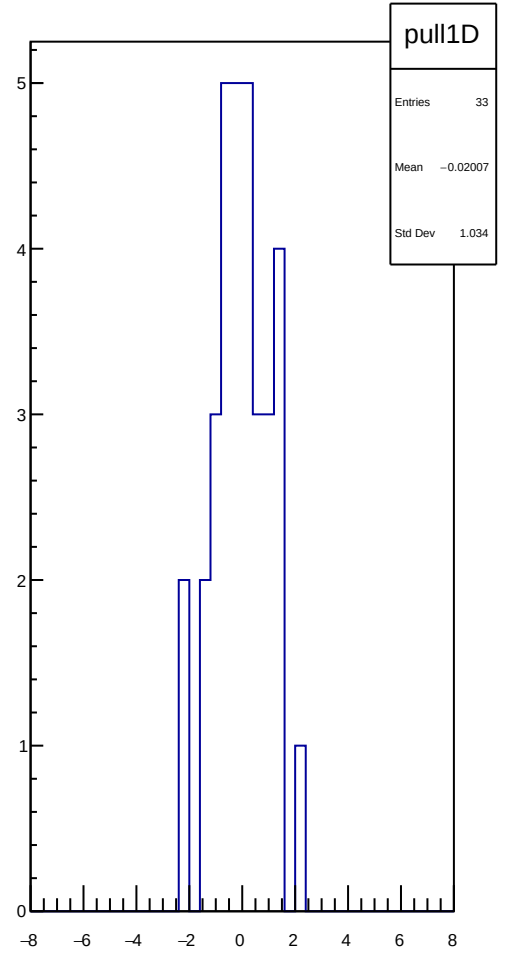

pull1D
Entries 26
Mean −0.003021
Std Dev 1.136
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

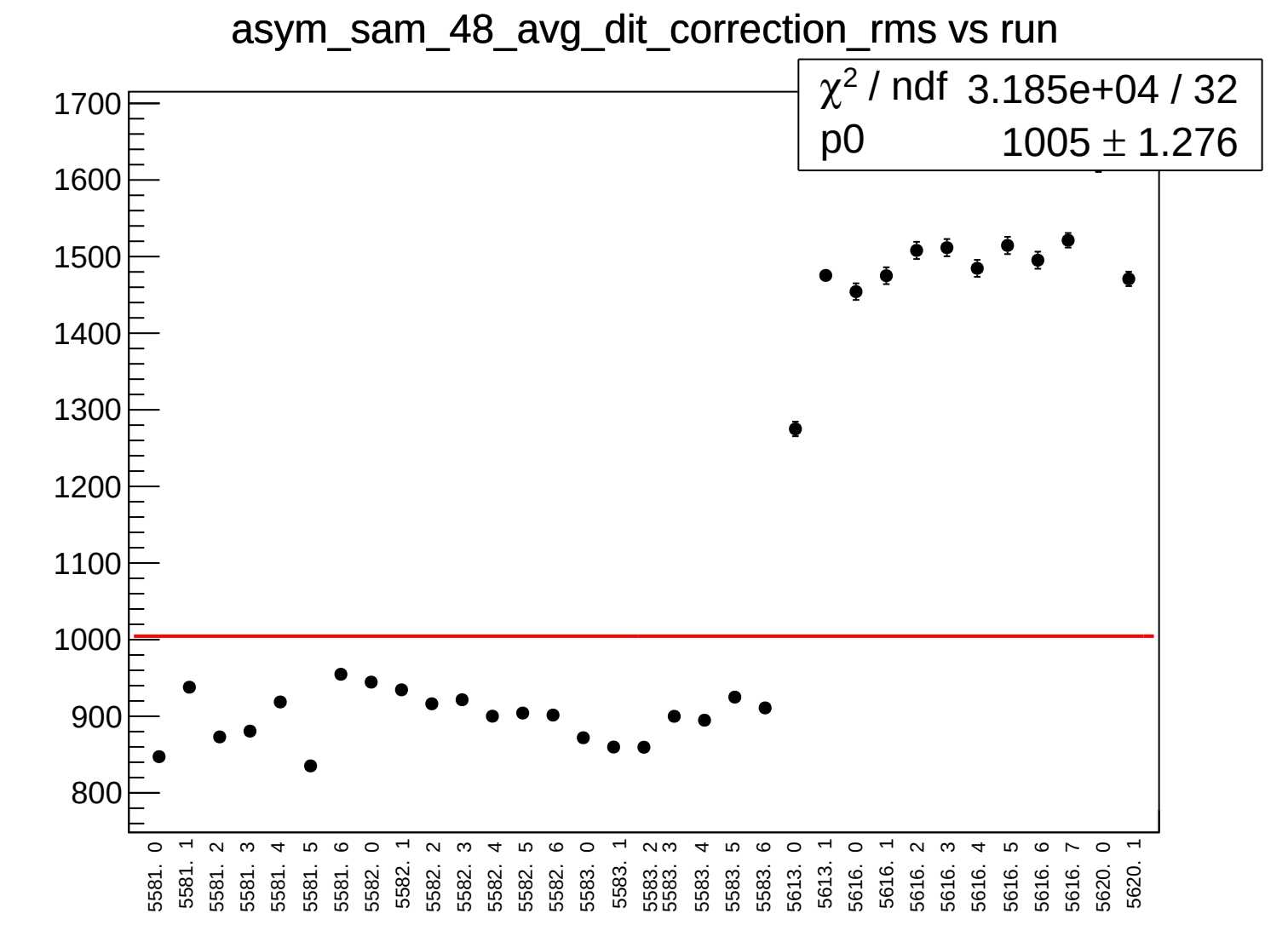

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.093e+04 / 25
p0 954 ± 1.339
1700
1600
1500
1400
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

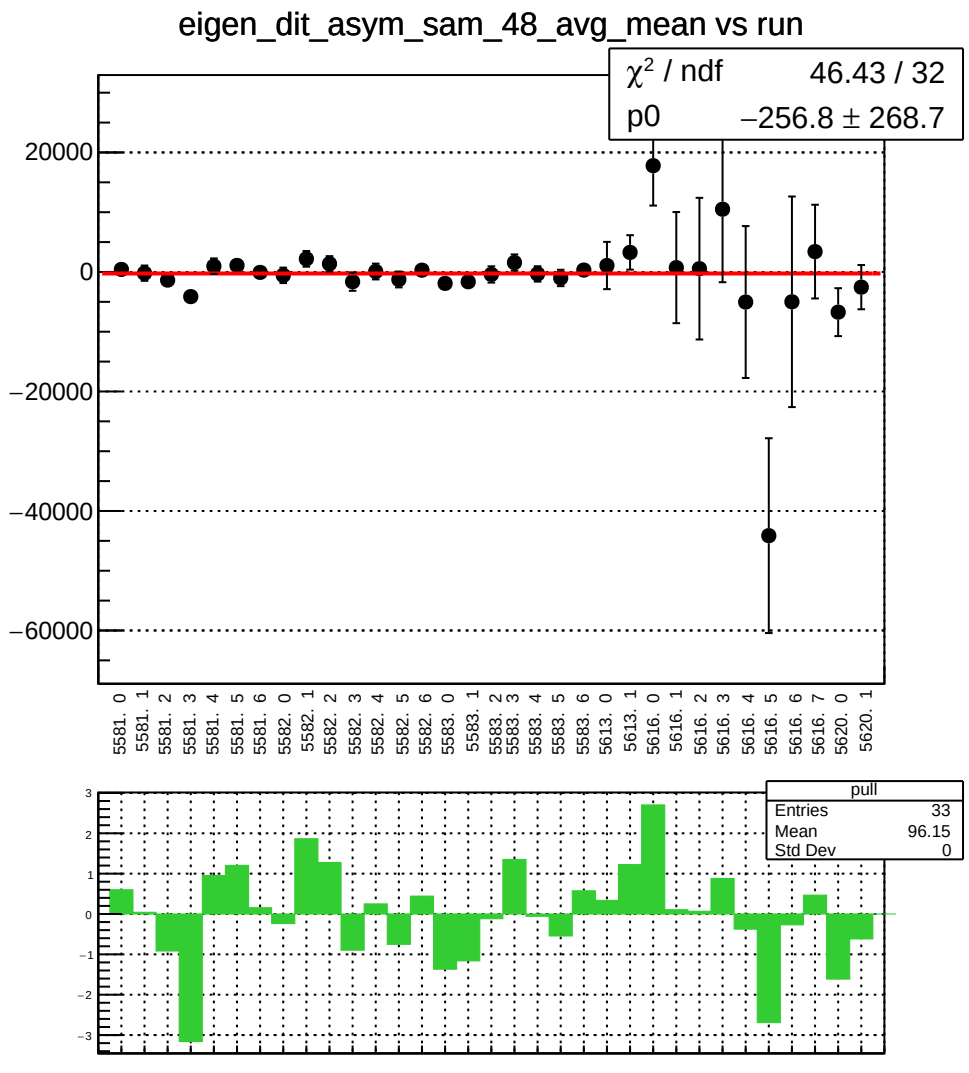

dit_asym_sam_48_avg_mean vs run
χ² / ndf 46.43 / 32
p0 −256.8 ± 268.7
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 96.15
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean −0.00833
Std Dev 1.186
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

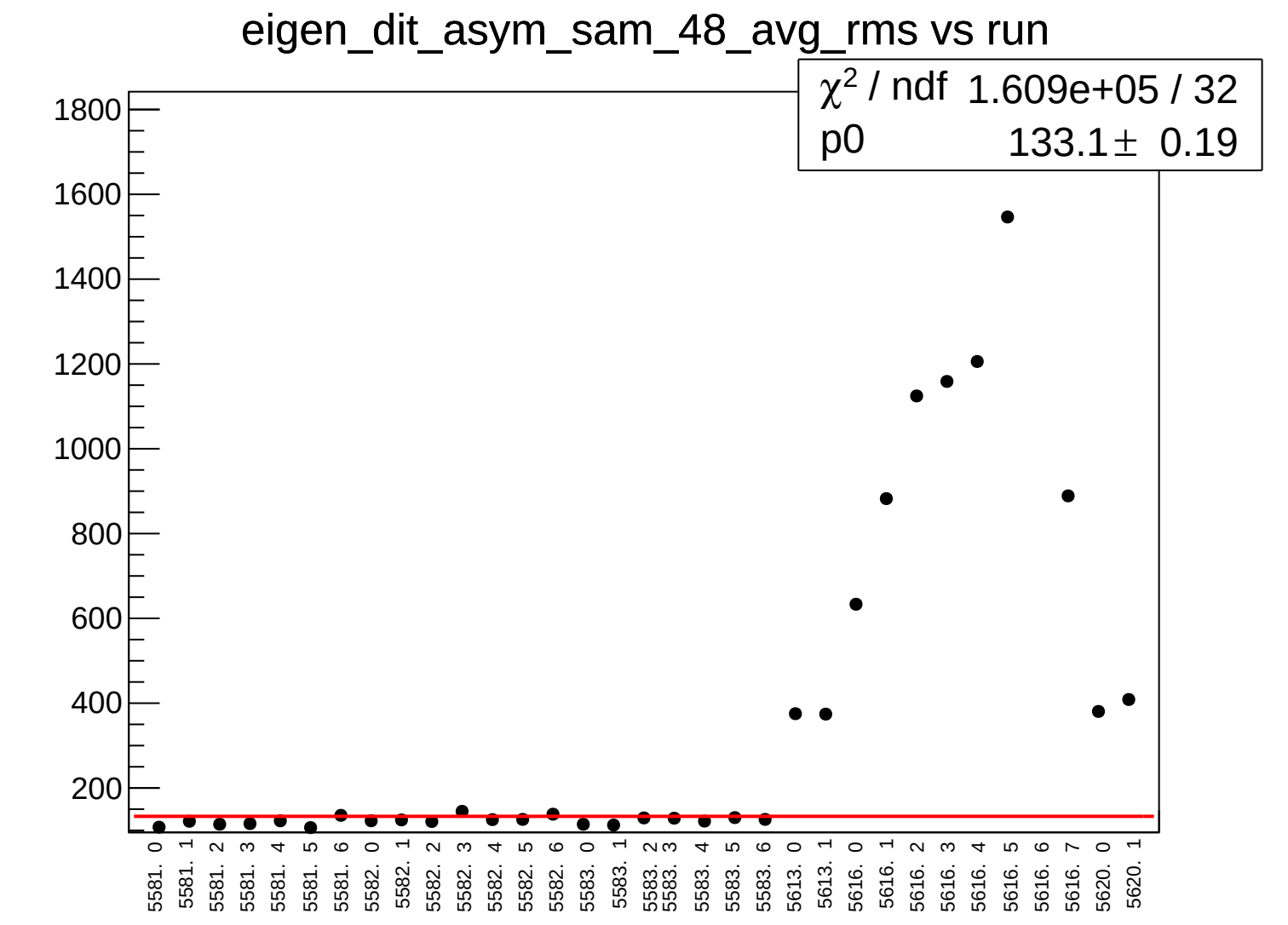

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.609e+05 / 32
p0 133.1 ± 0.19
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

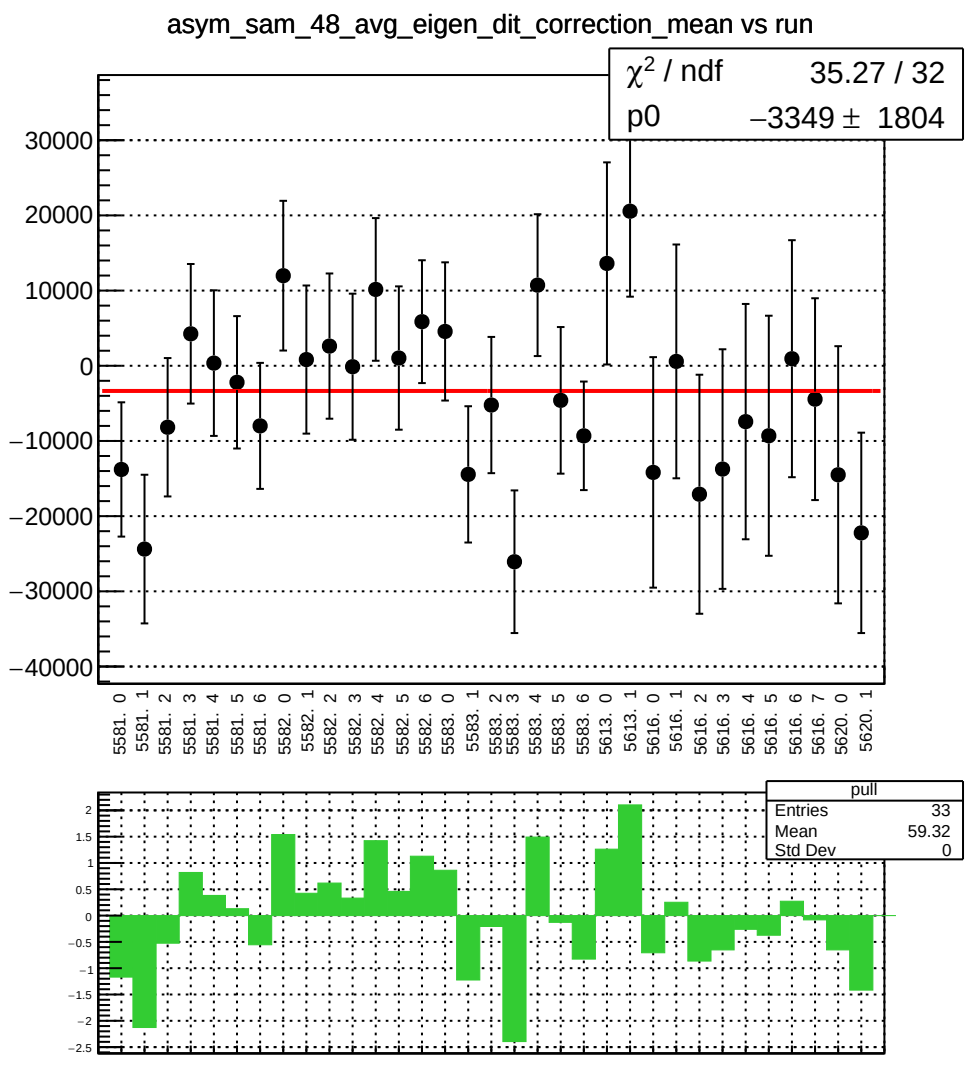

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 35.27 / 32
p0 −3349 ± 1804
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 59.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

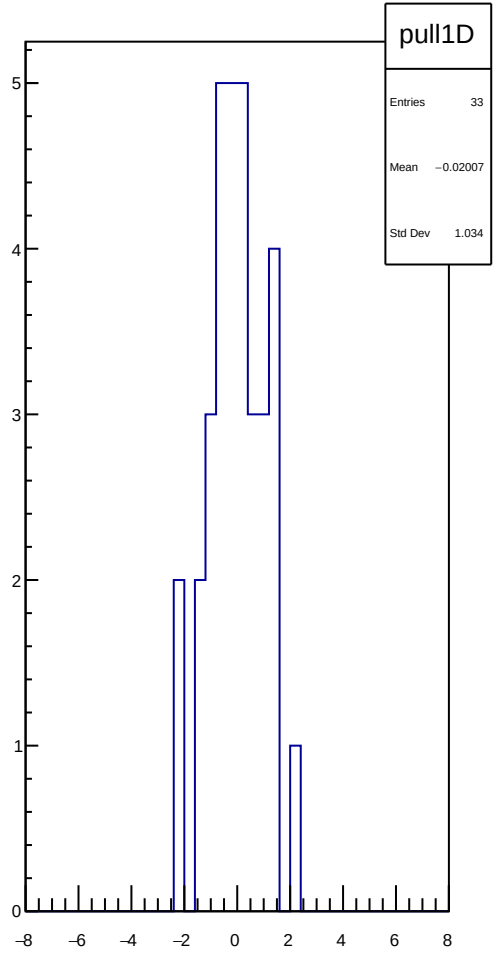

pull1D
Entries 33
Mean −0.02007
Std Dev 1.034
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

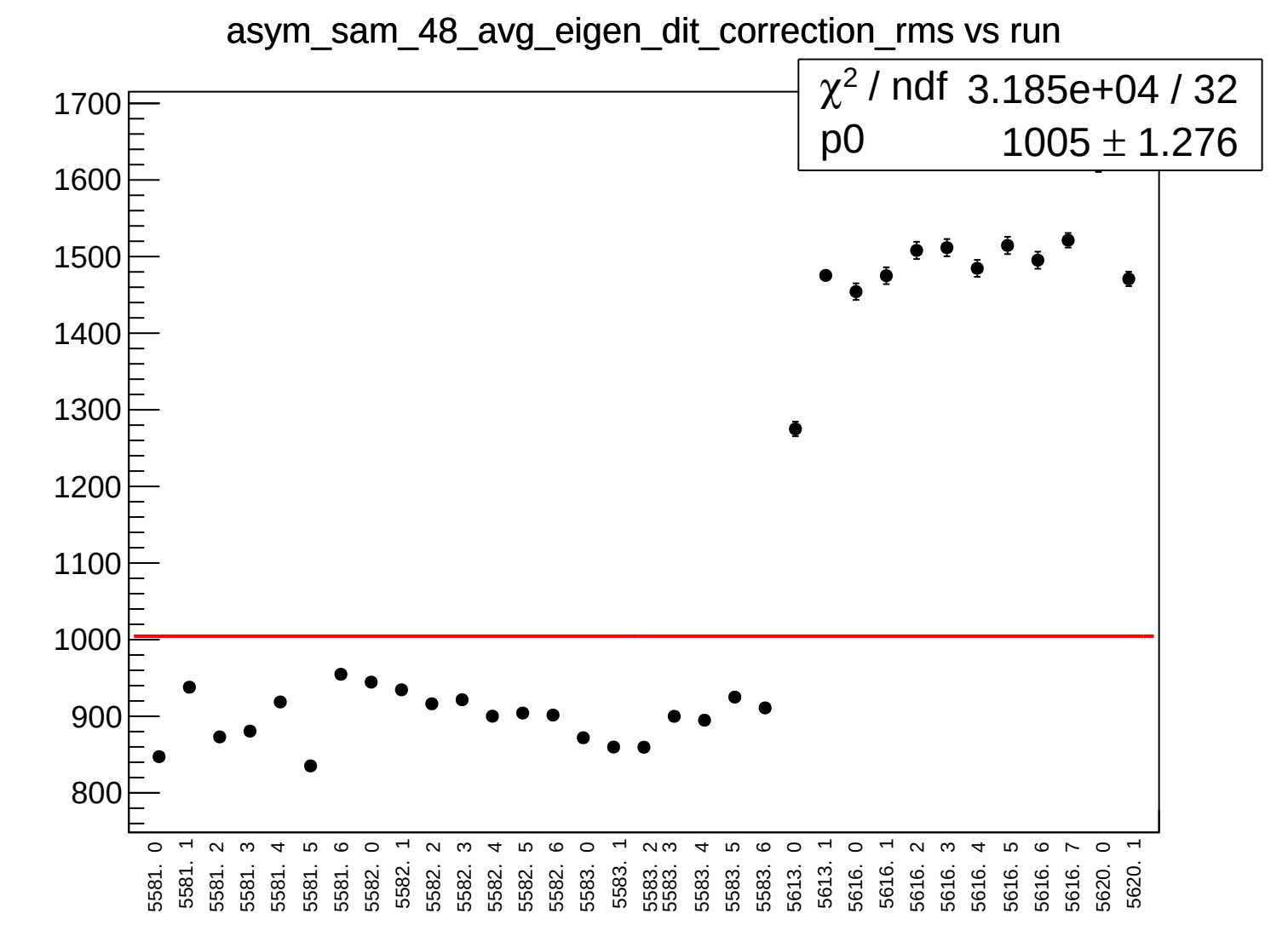

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 3.185e+04 / 32
p0 1005 ± 1.276
1700
1600
1500
1400
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

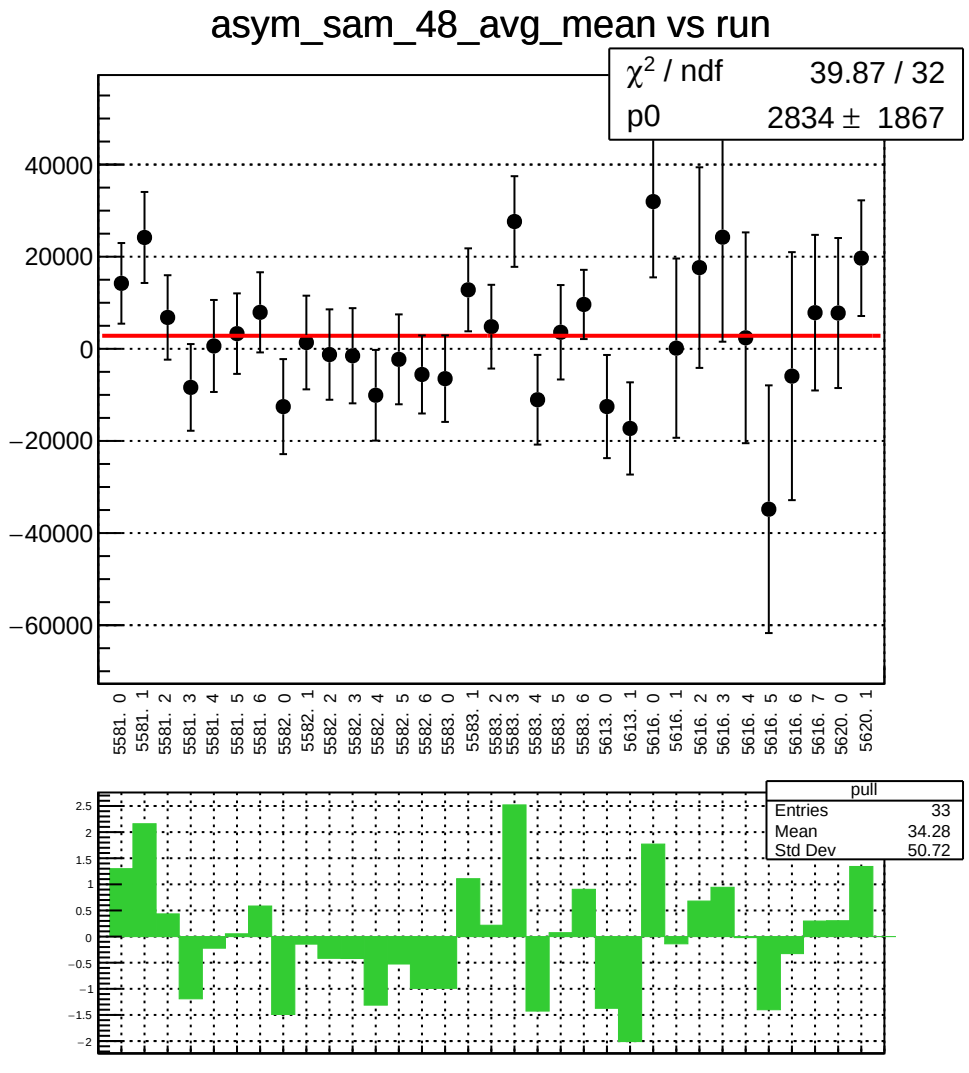

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 46.43 / 32
p0 −256.8 ± 268.7
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 96.15
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean −0.00833
Std Dev 1.186
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

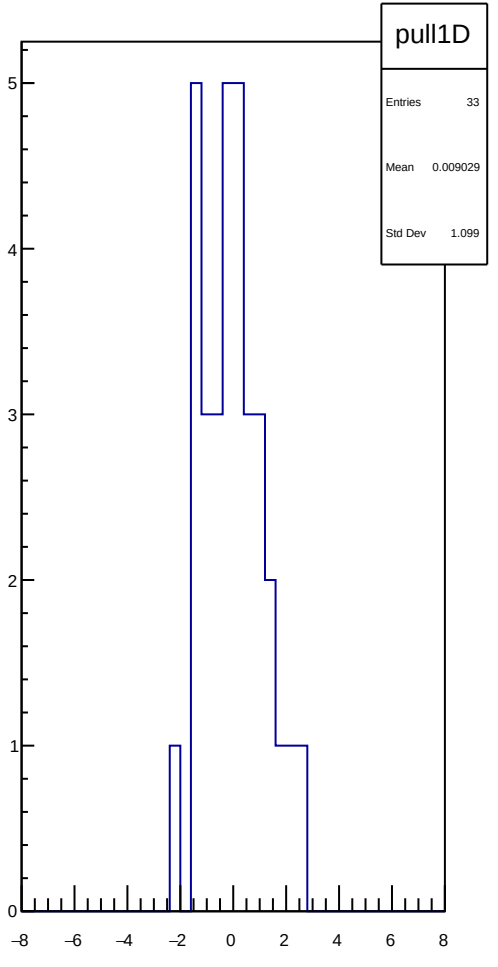

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.609e+05 / 32
p0 133.1 ± 0.19
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

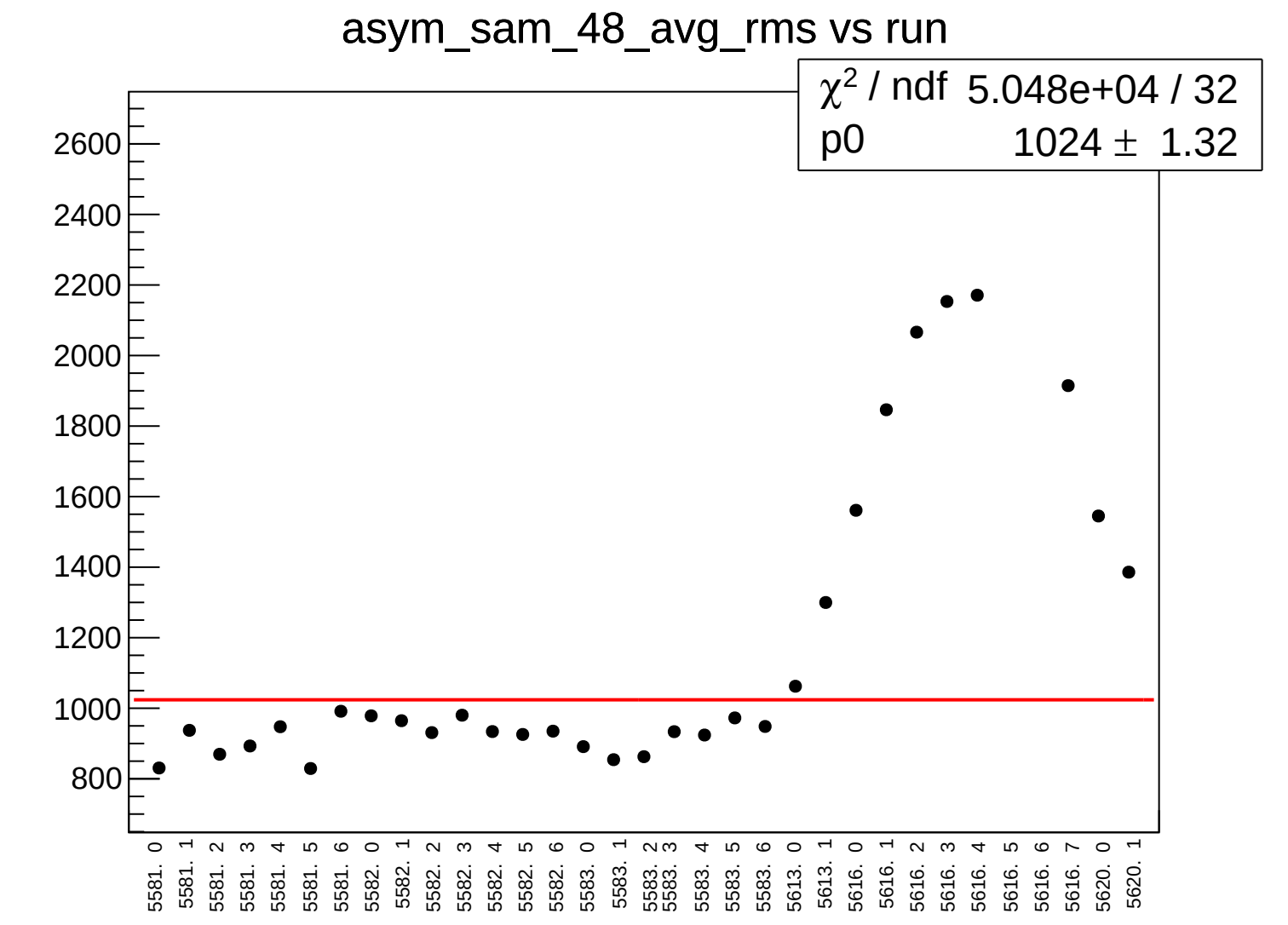

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 35.27 / 32
p0 −3349 ± 1804
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 59.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

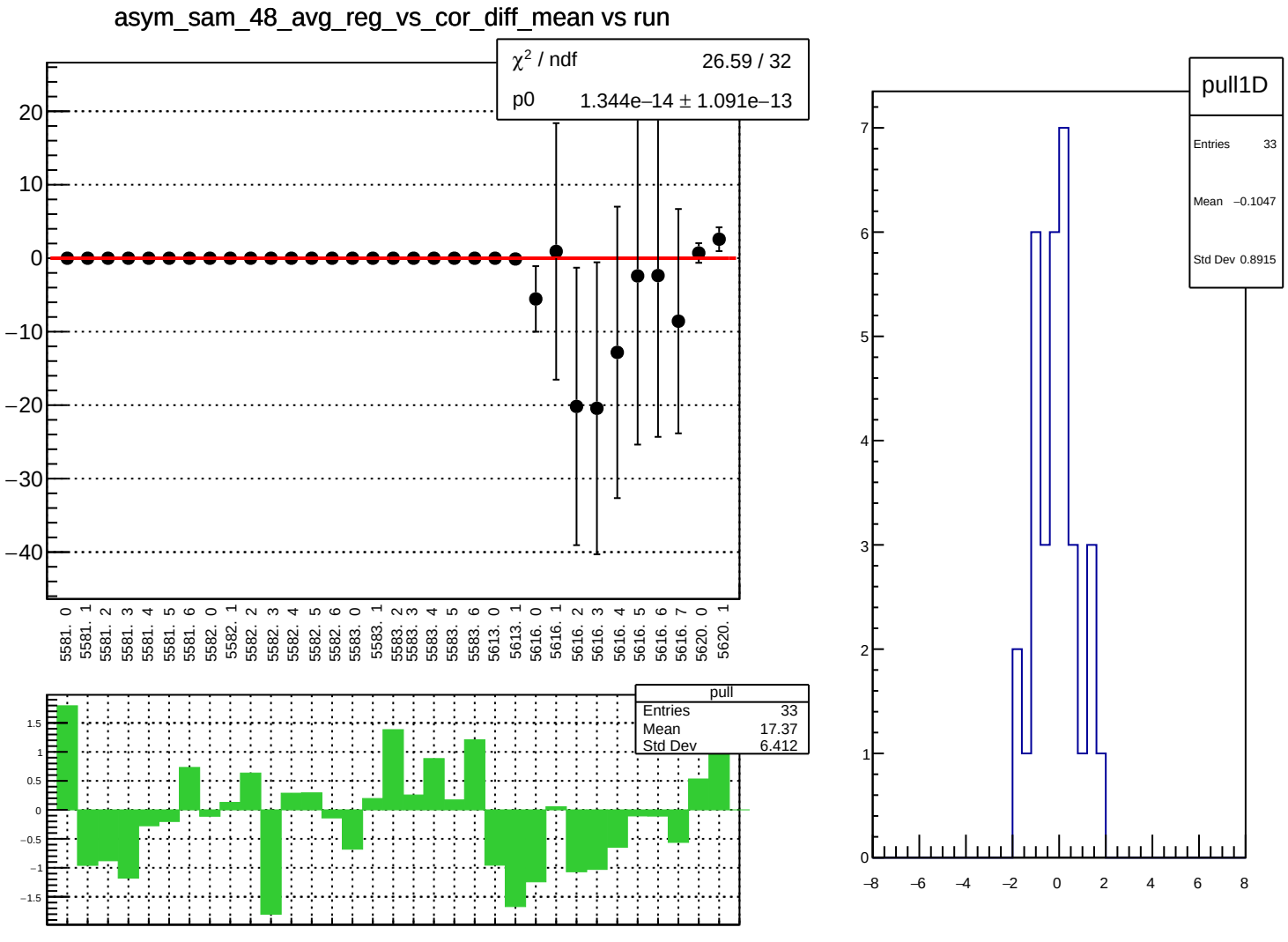

pull1D
Entries 33
Mean −0.02007
Std Dev 1.034
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

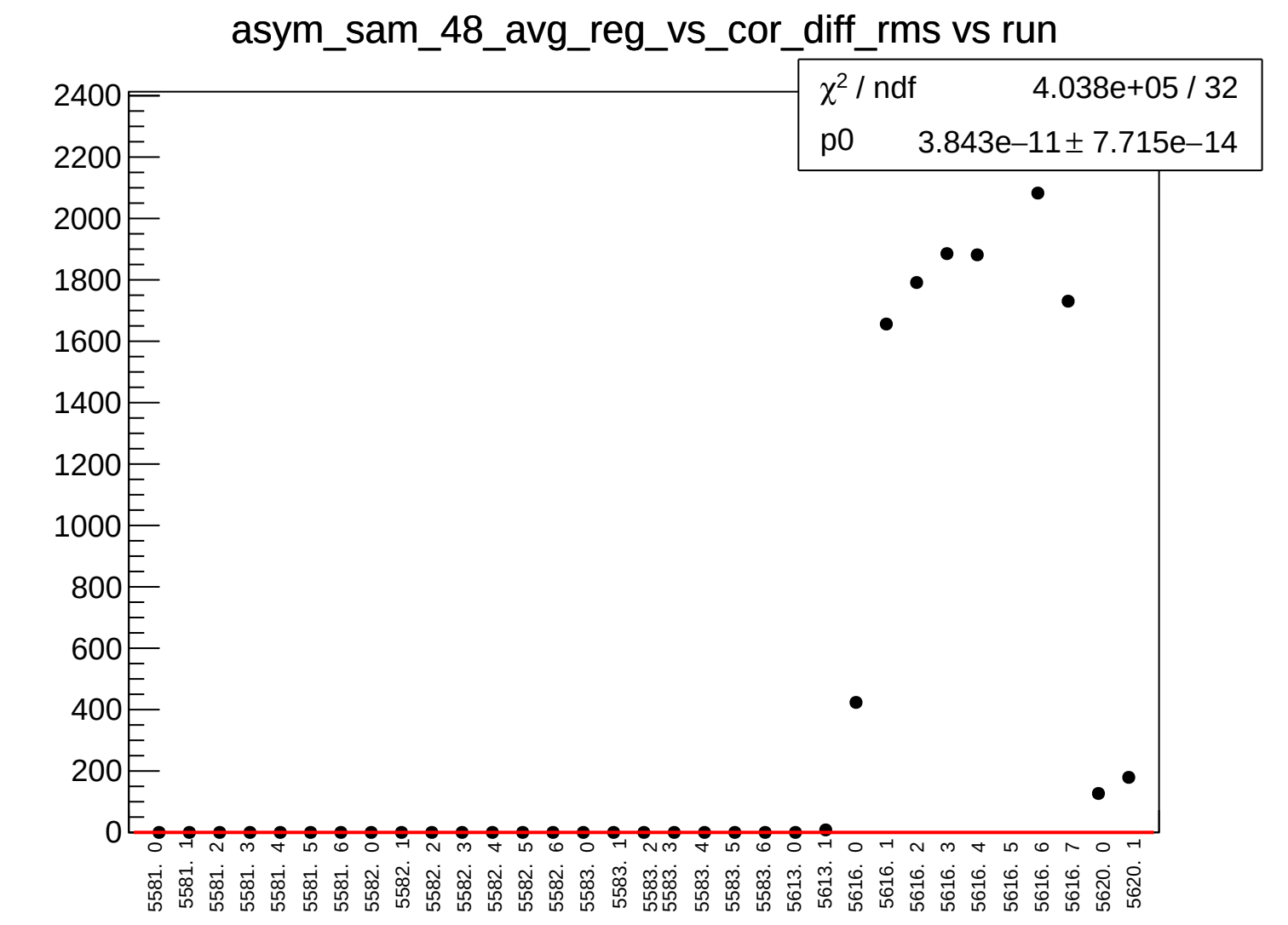

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.185e+04 / 32
p0 1005 ± 1.276
1700
1600
1500
1400
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

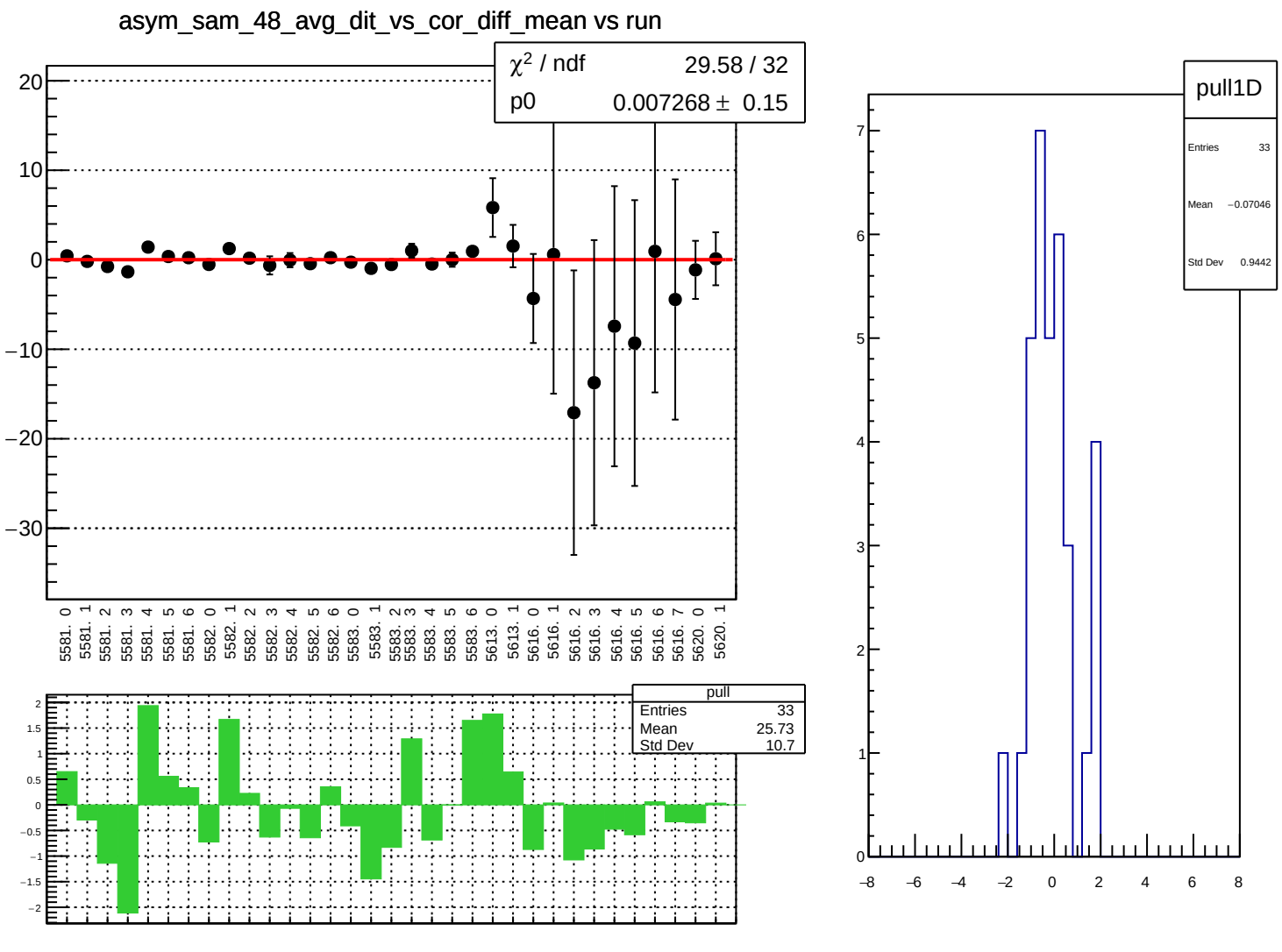

asym_sam_48_avg_mean vs run
χ² / ndf 39.87 / 32
p0 2834 ± 1867
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.28
Std Dev 50.72
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

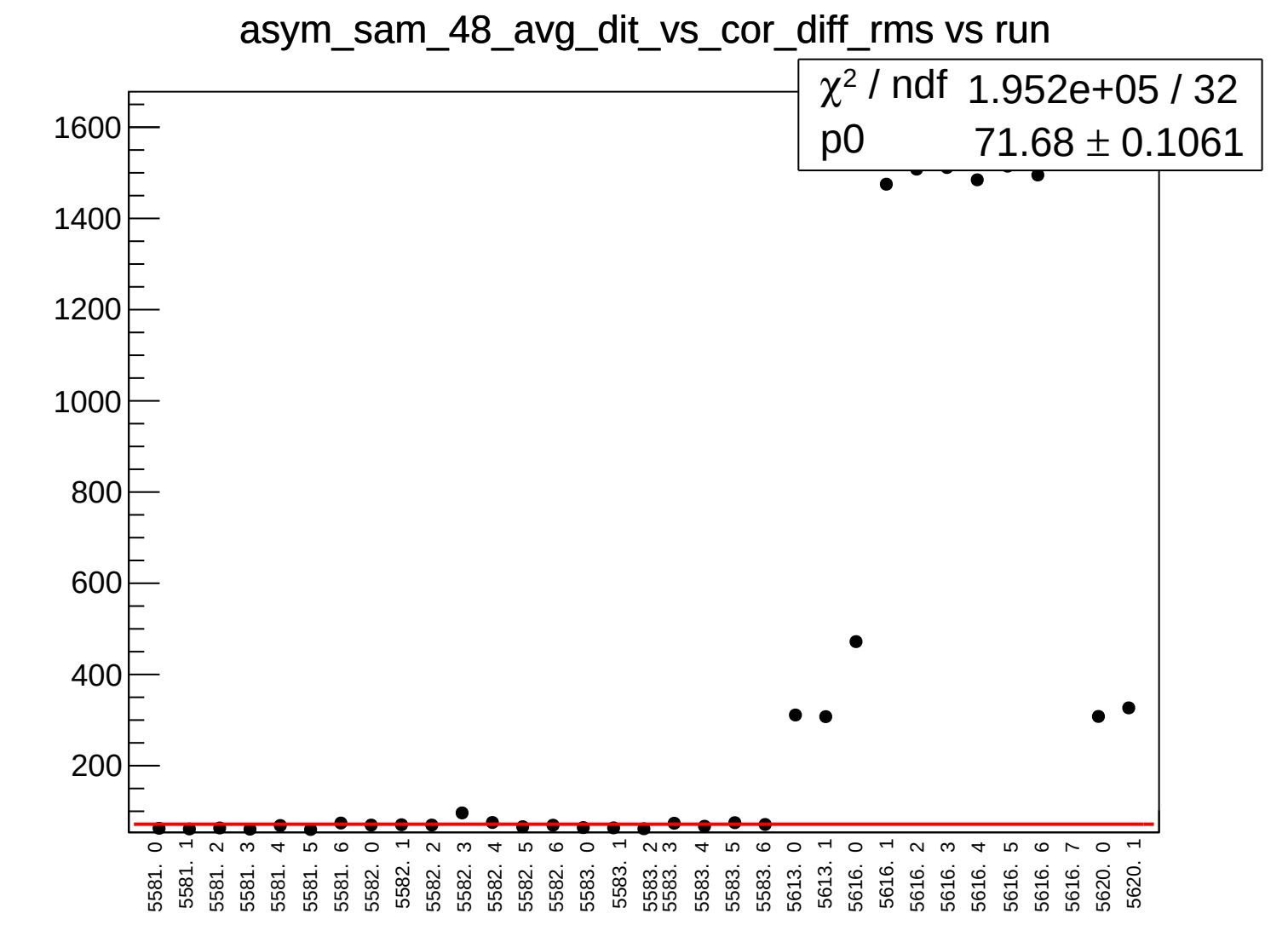

pull1D
Entries 33
Mean 0.009029
Std Dev 1.099
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

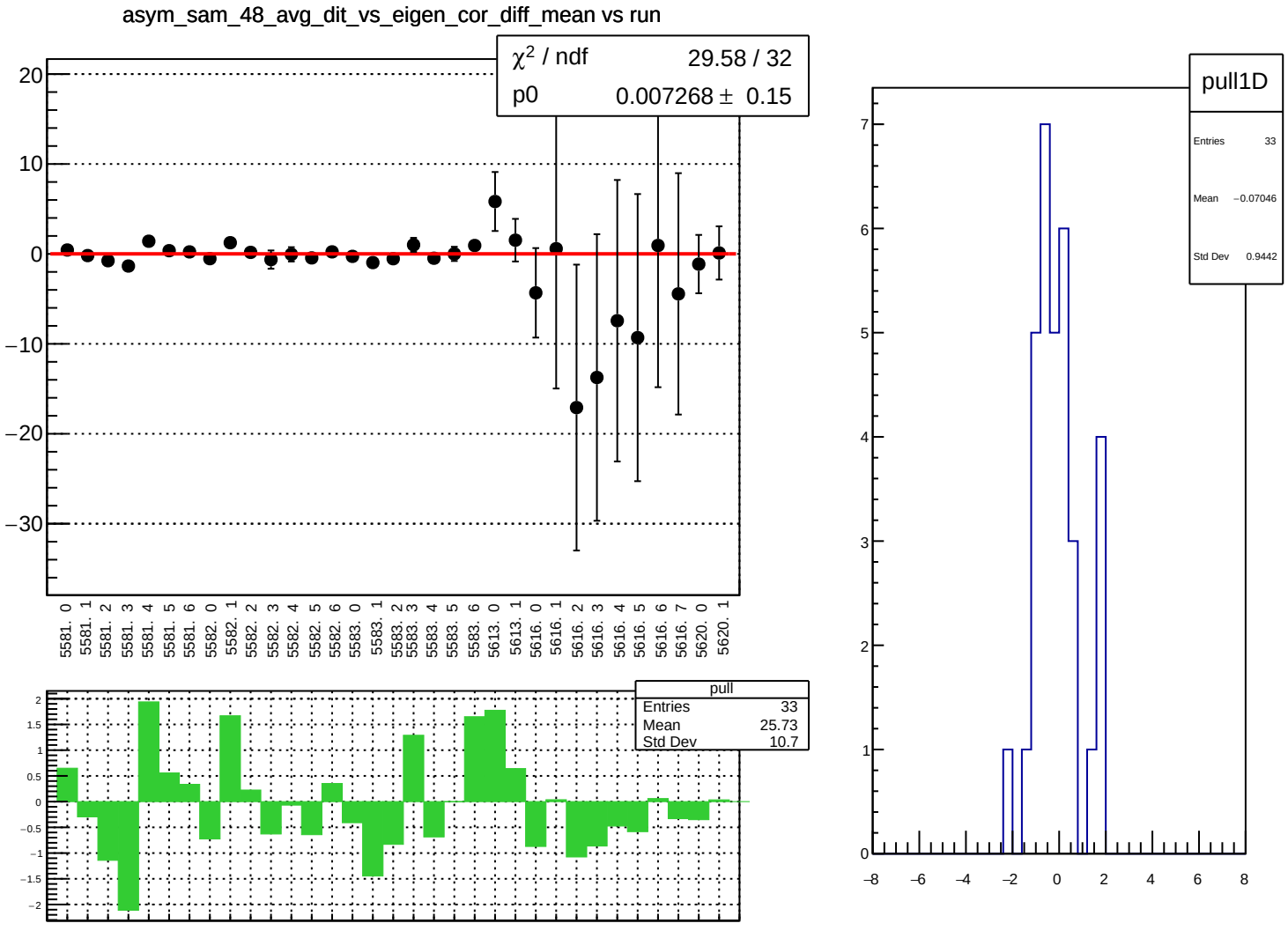

asym_sam_48_avg_rms vs run
χ² / ndf 5.048e+04 / 32
p0 1024 ± 1.32
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

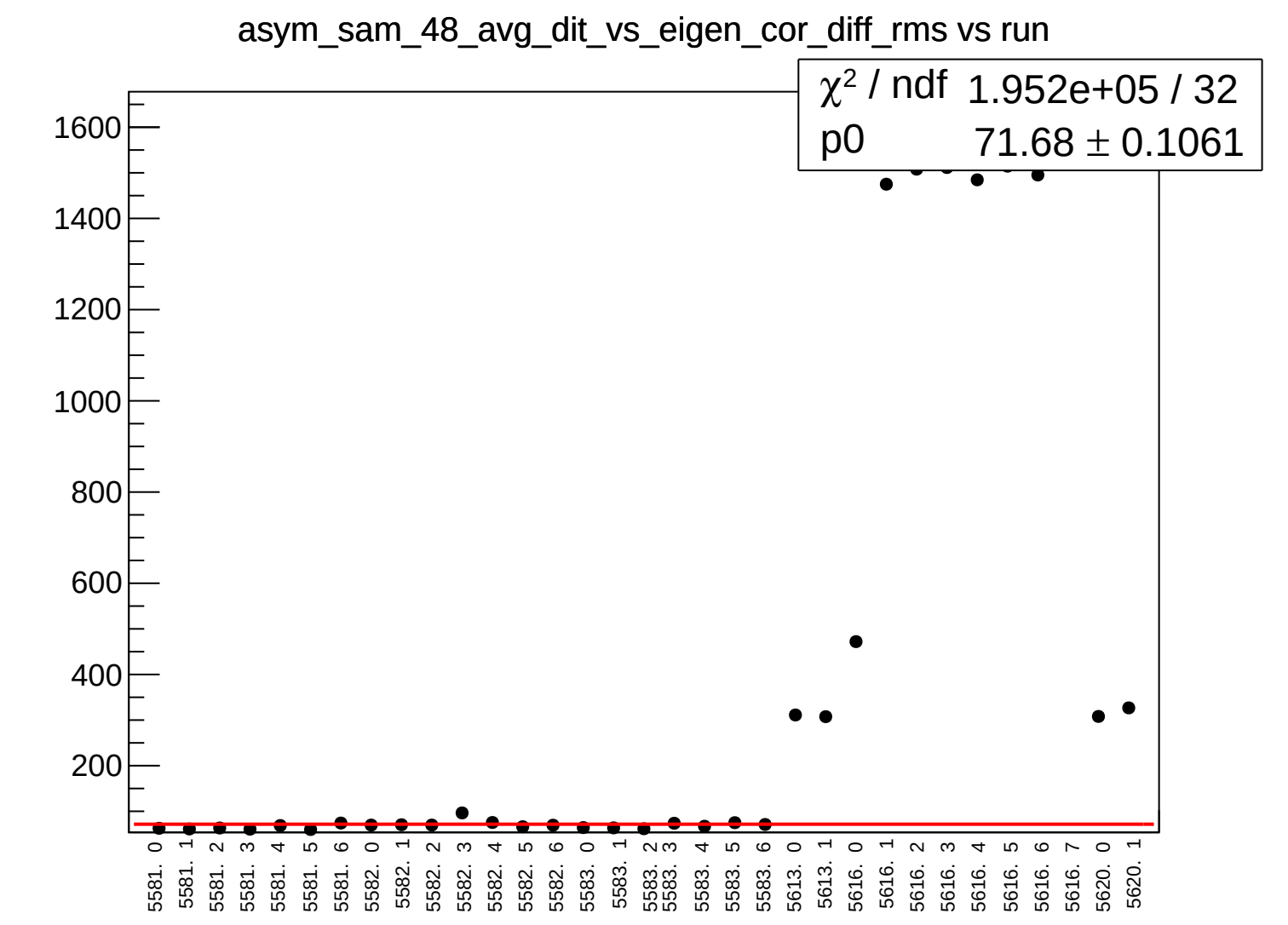

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 26.59 / 32
p0 1.344e−14 ± 1.091e−13
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.37
Std Dev 6.412
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1047
Std Dev 0.8915
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

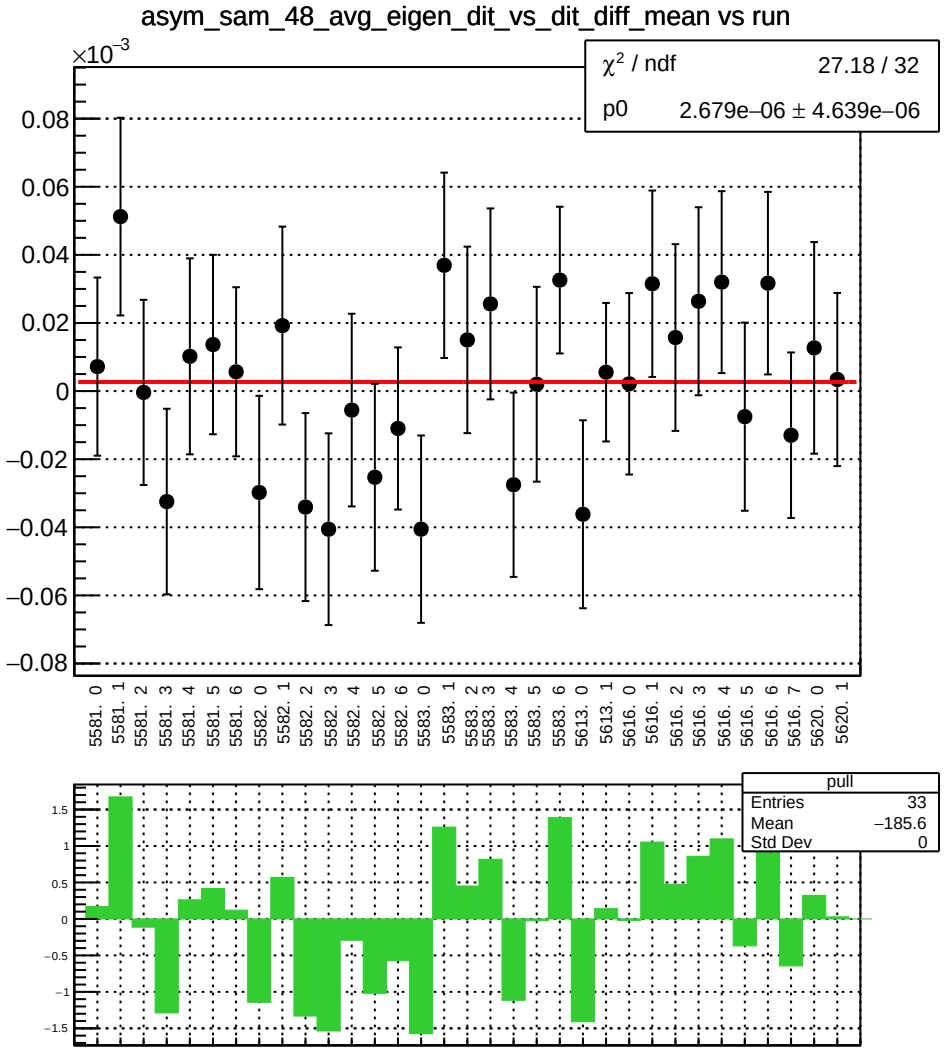

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.038e+05 / 32
p0 3.843e−11 ± 7.715e−14
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

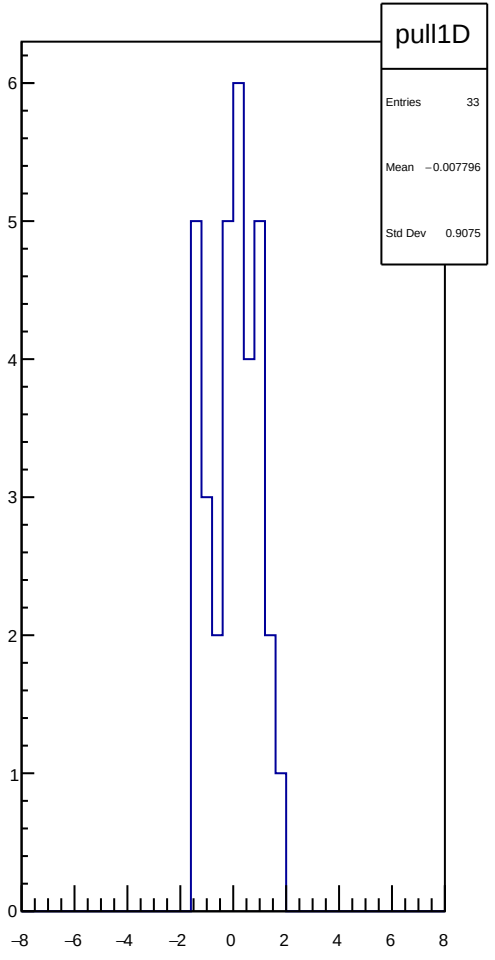

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 29.58 / 32
p0 0.007268 ± 0.15
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 25.73
Std Dev 10.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.07046
Std Dev 0.9442
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

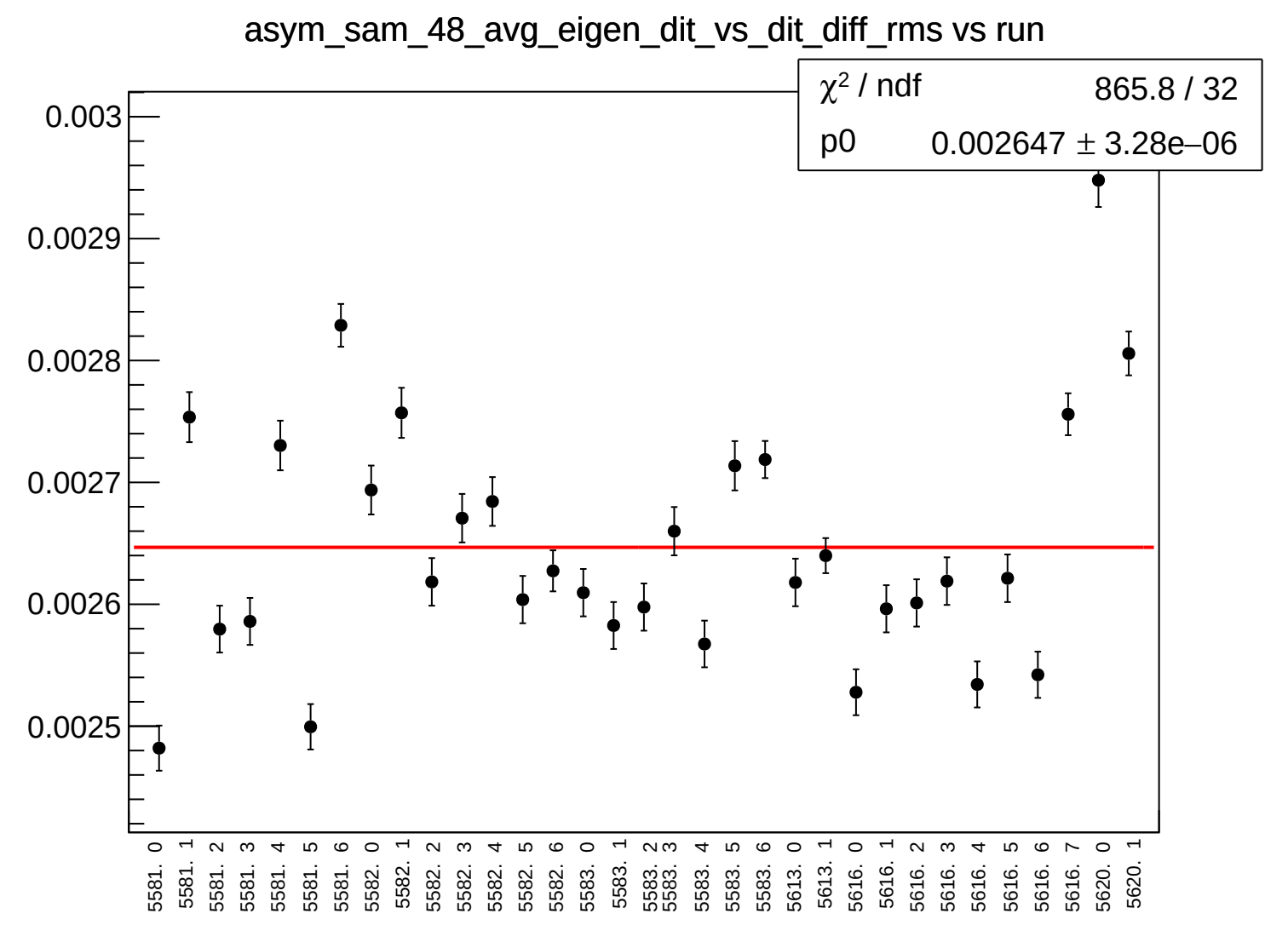

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.952e+05 / 32
p0 71.68 ± 0.1061
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

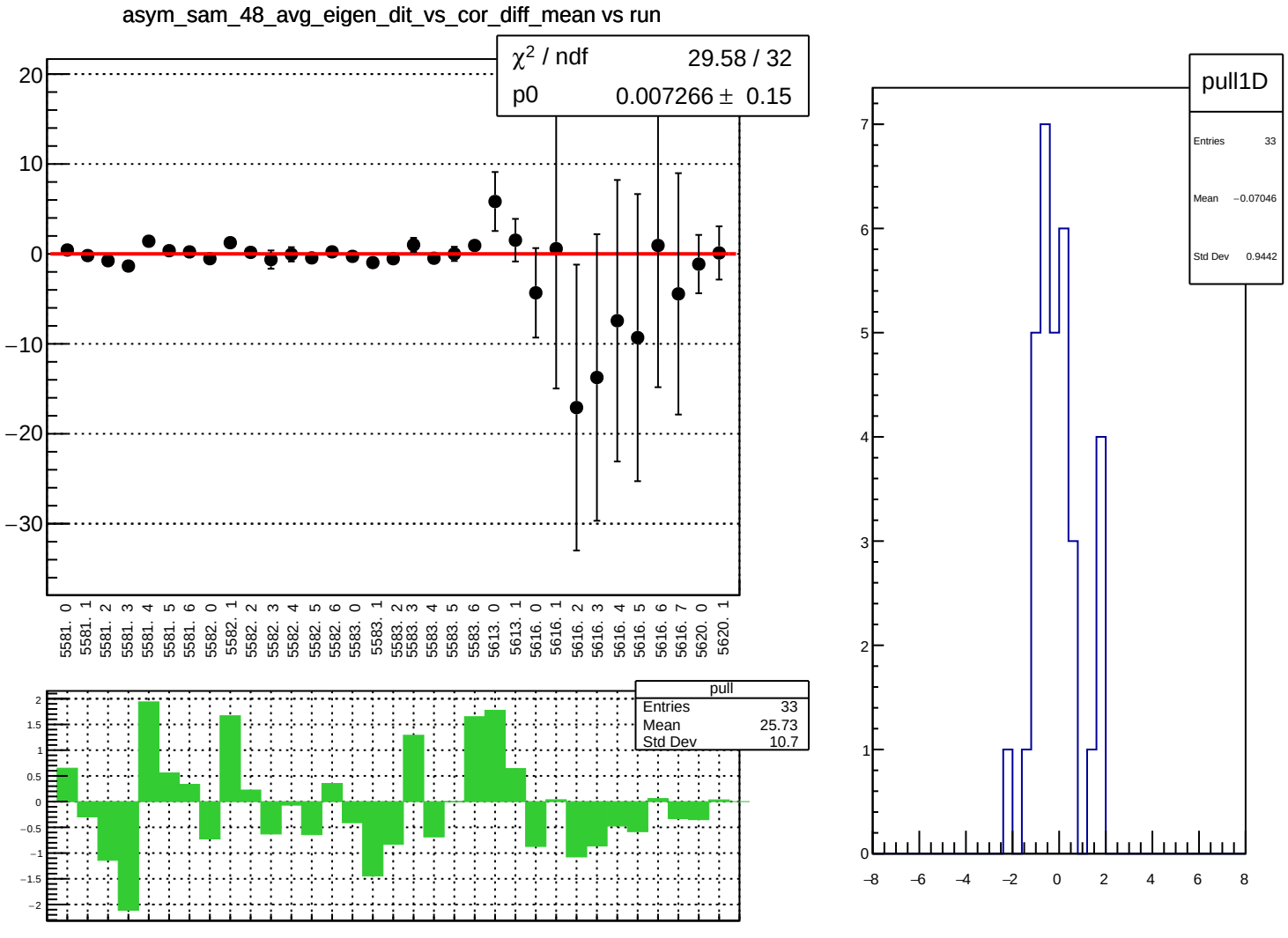

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.58 / 32
p0 0.007268 ± 0.15
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 25.73
Std Dev 10.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.07046
Std Dev 0.9442
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

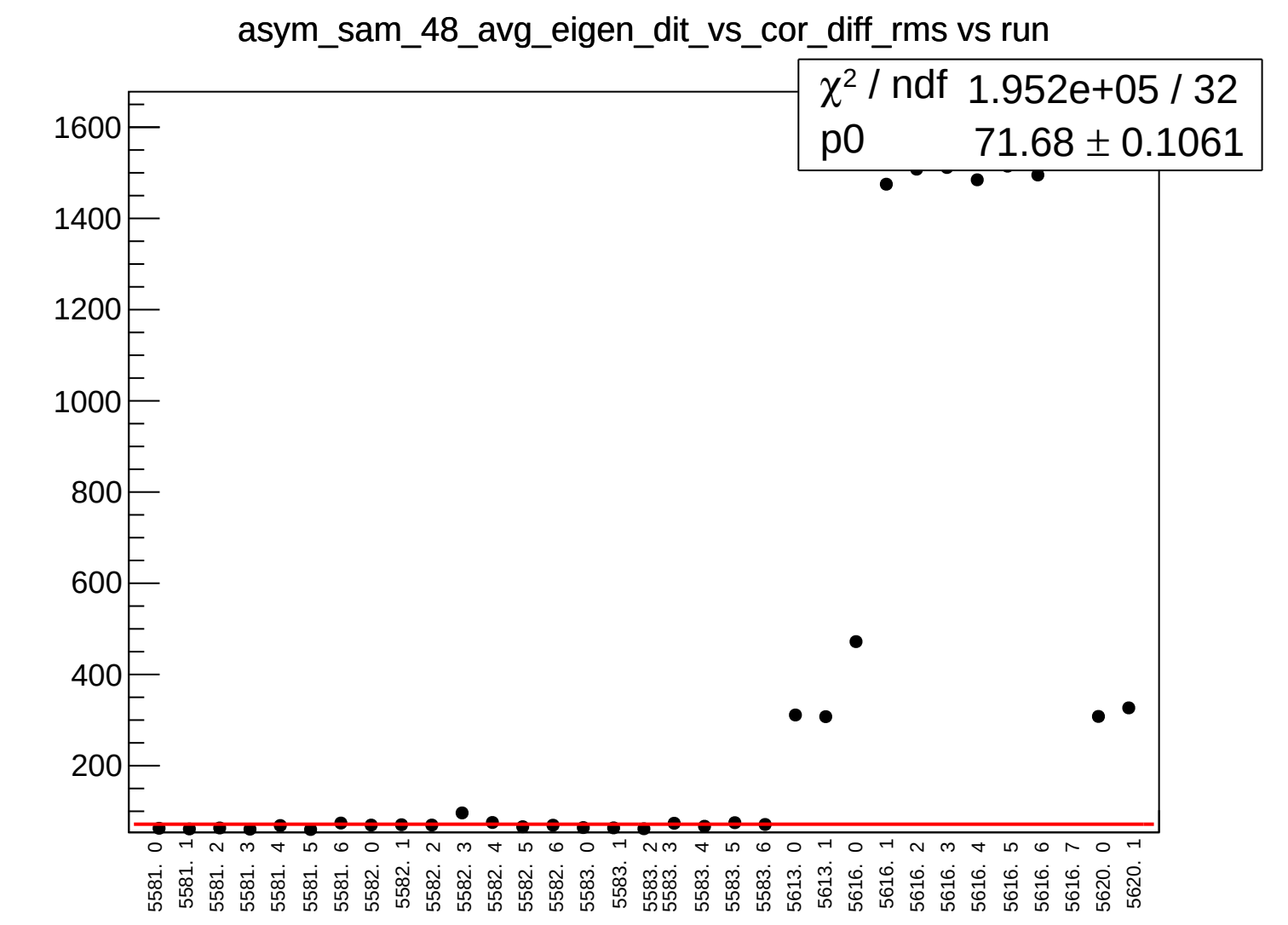

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.952e+05 / 32
p0 71.68 ± 0.1061
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

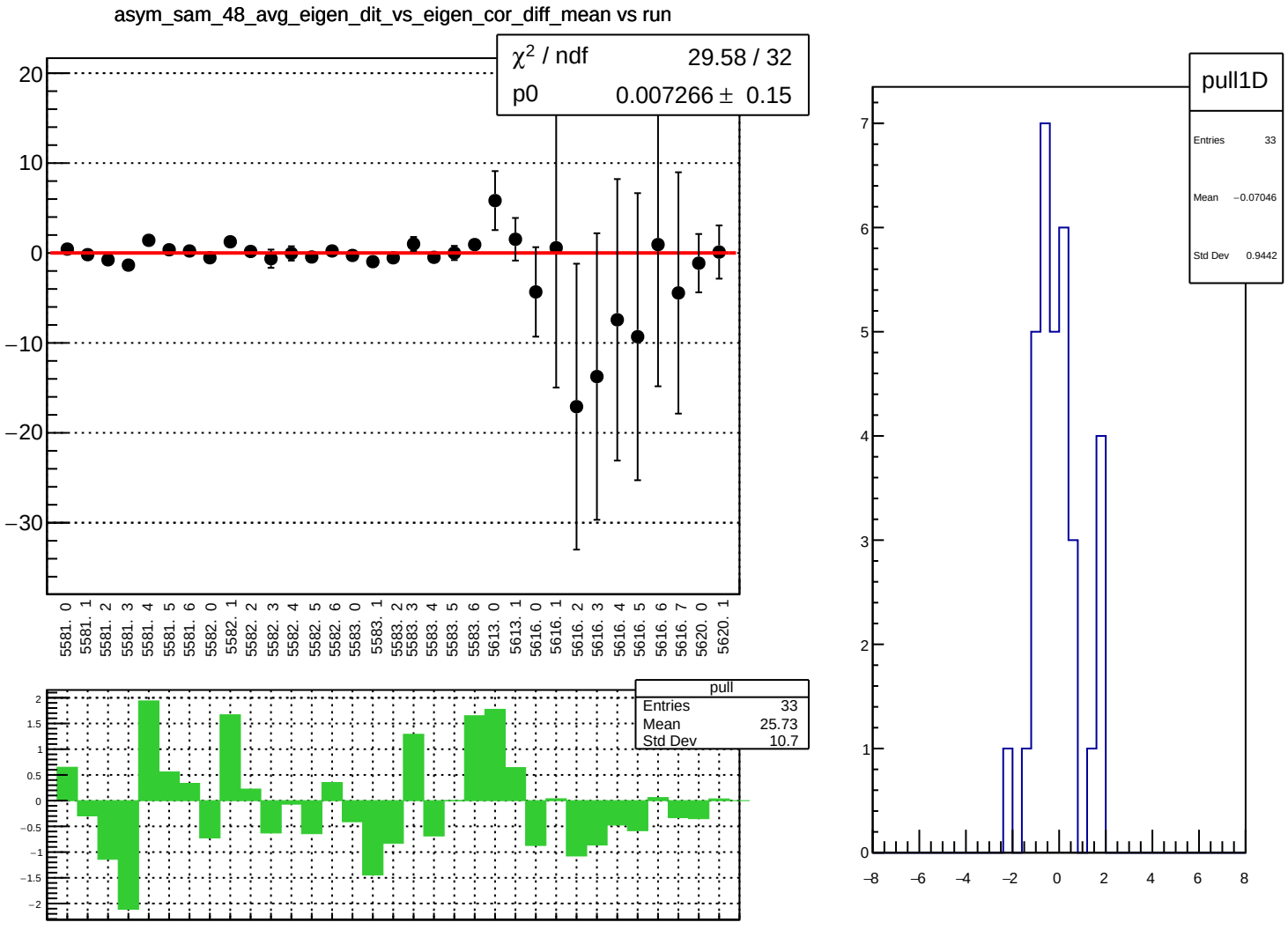

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 27.18 / 32
p0 2.679e−06 ± 4.639e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −185.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

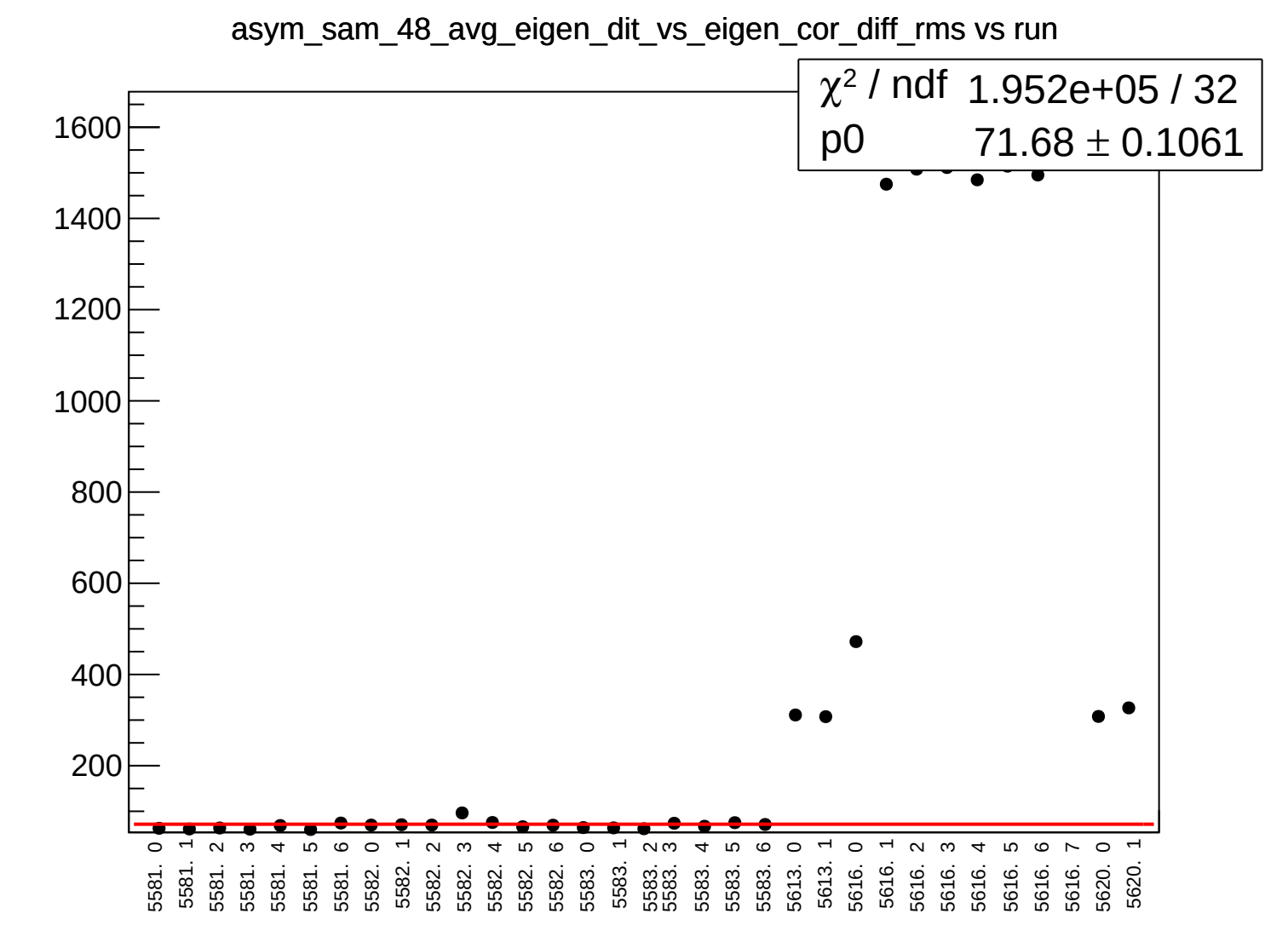

pull1D
Entries 33
Mean −0.007796
Std Dev 0.9075
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

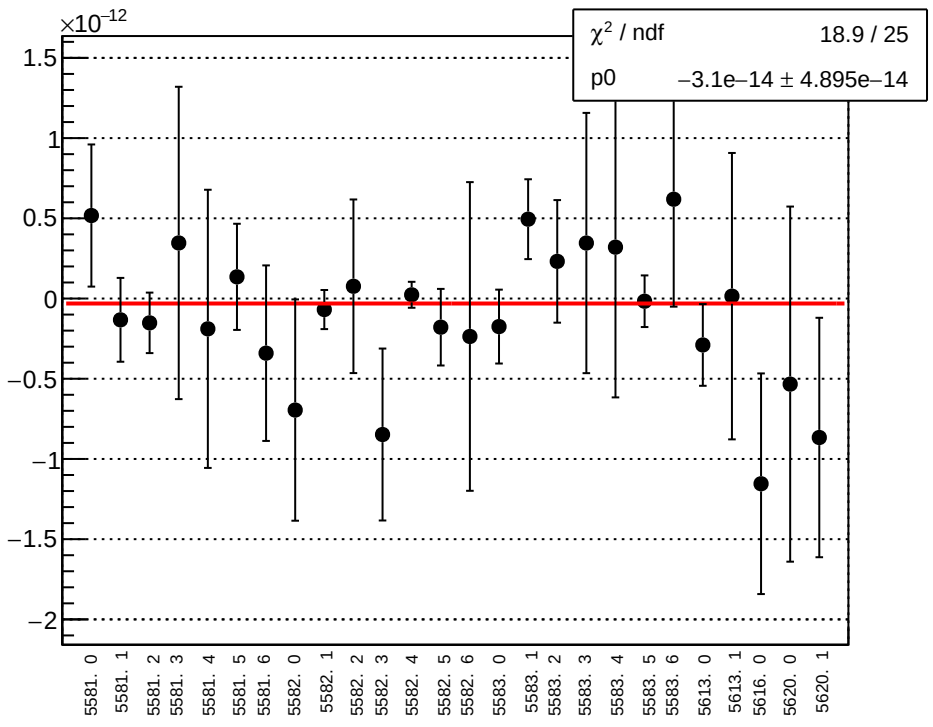

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 865.8 / 32
p0 0.002647 ± 3.28e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

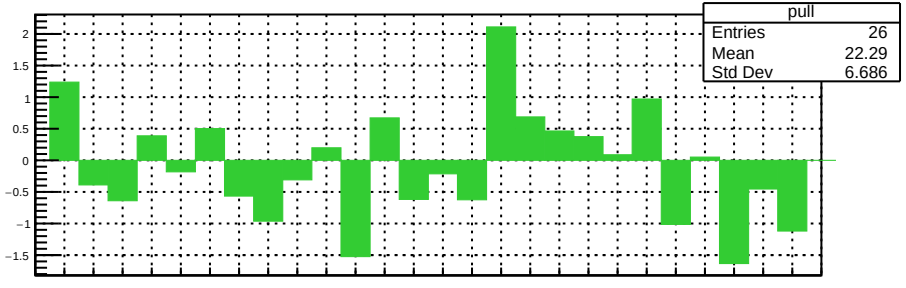

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.58 / 32
p0 0.007266 ± 0.15
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 25.73
Std Dev 10.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.07046
Std Dev 0.9442
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

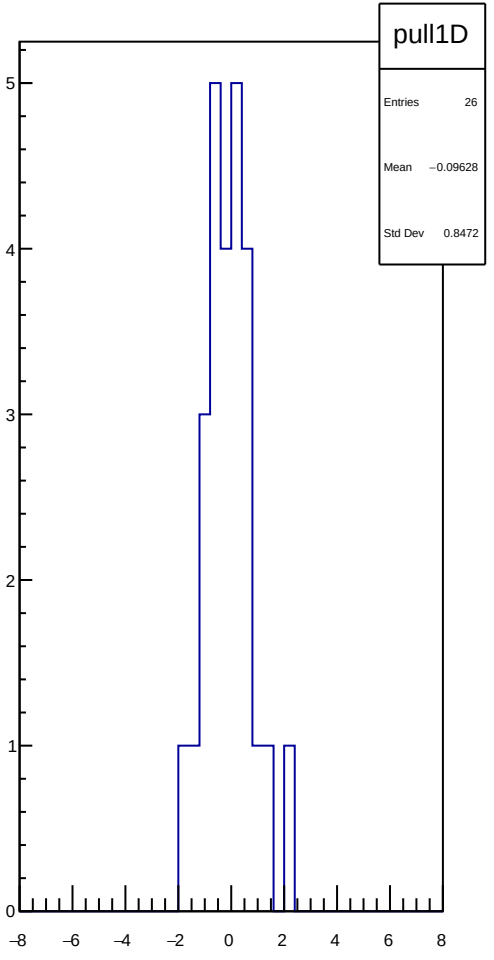

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.952e+05 / 32
p0 71.68 ± 0.1061
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

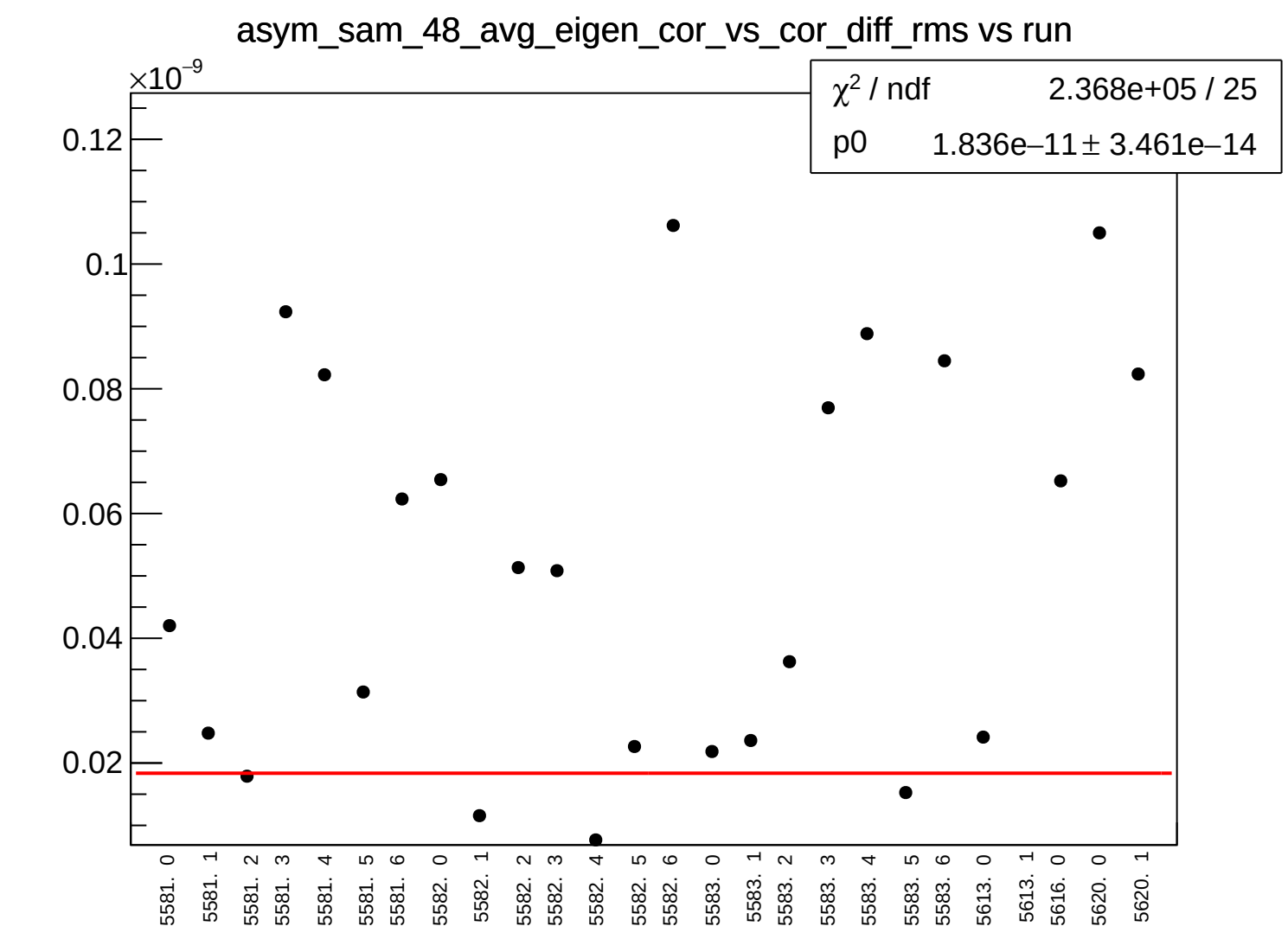

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.58 / 32
p0 0.007266 ± 0.15
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 25.73
Std Dev 10.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.07046
Std Dev 0.9442
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

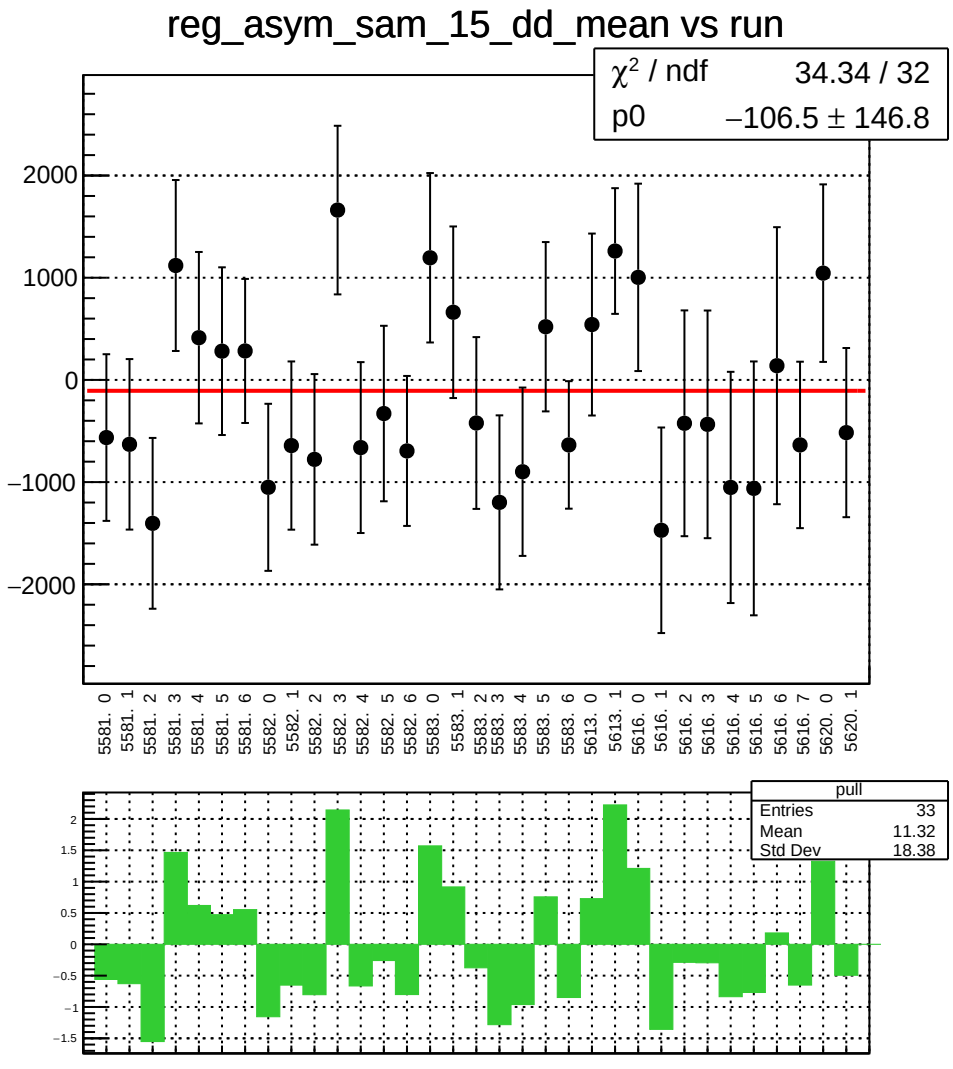

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.952e+05 / 32
p0 71.68 ± 0.1061
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

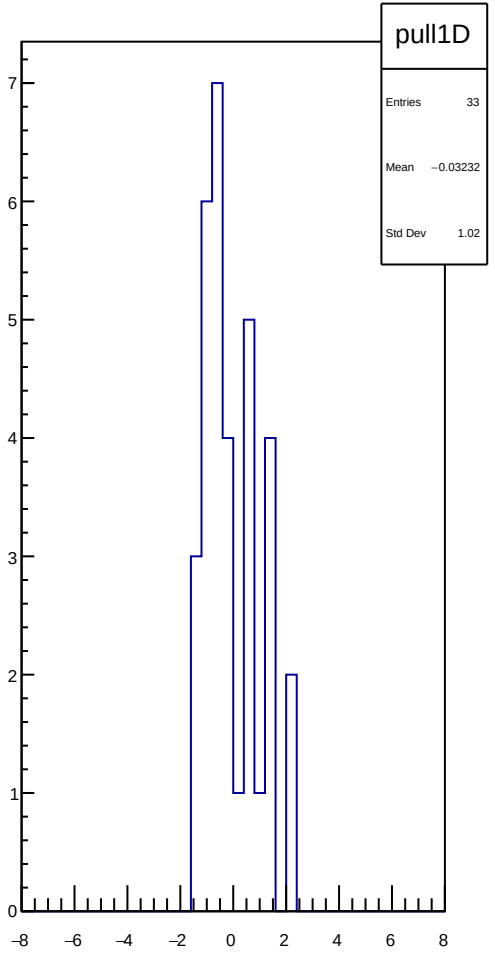

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 18.9 / 25
p0 −3.1e−14 ± 4.895e−14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

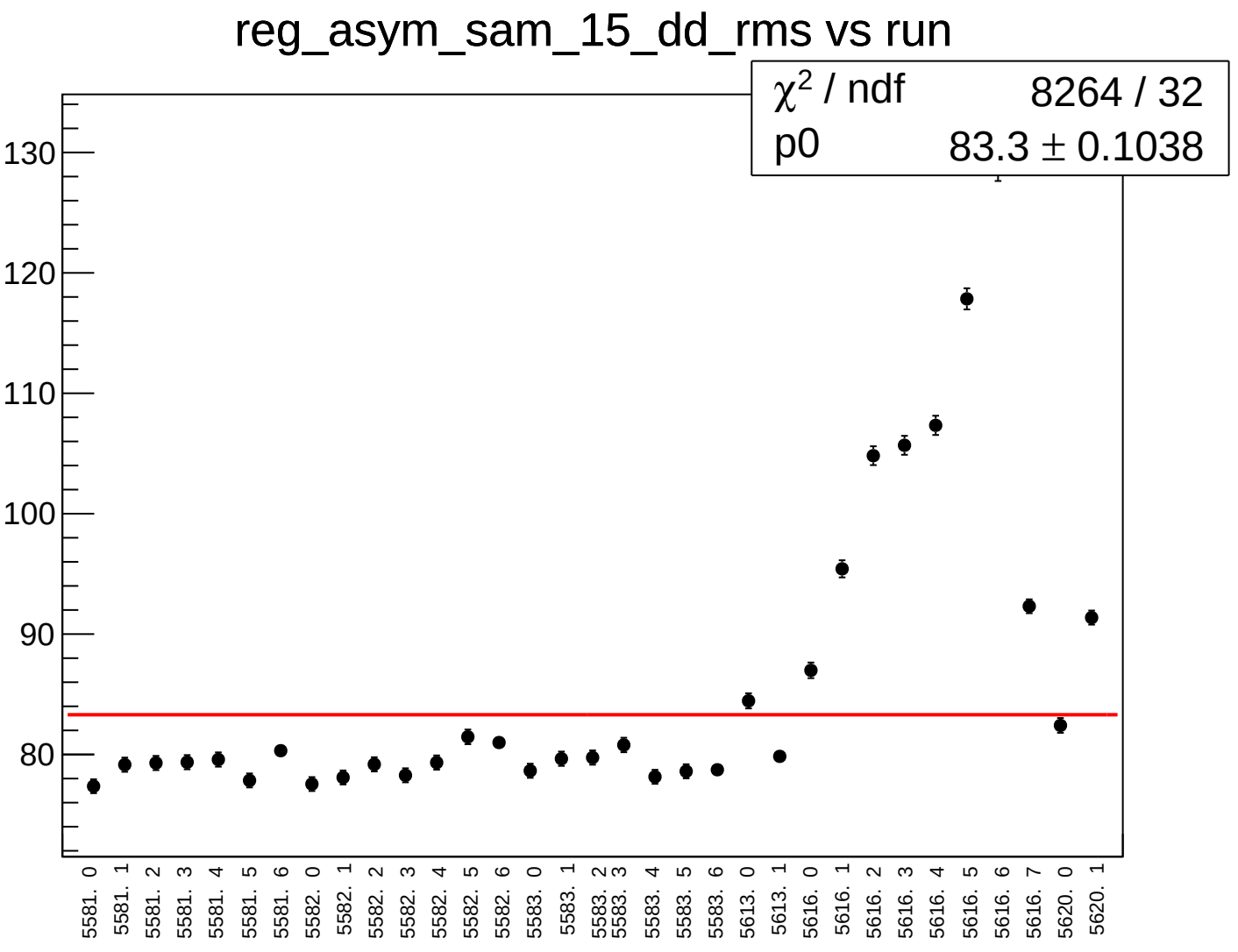

pull
Entries 26
Mean 22.29
Std Dev 6.686
2
1.5
1
0.5
0
−0.5
−1
−1.5

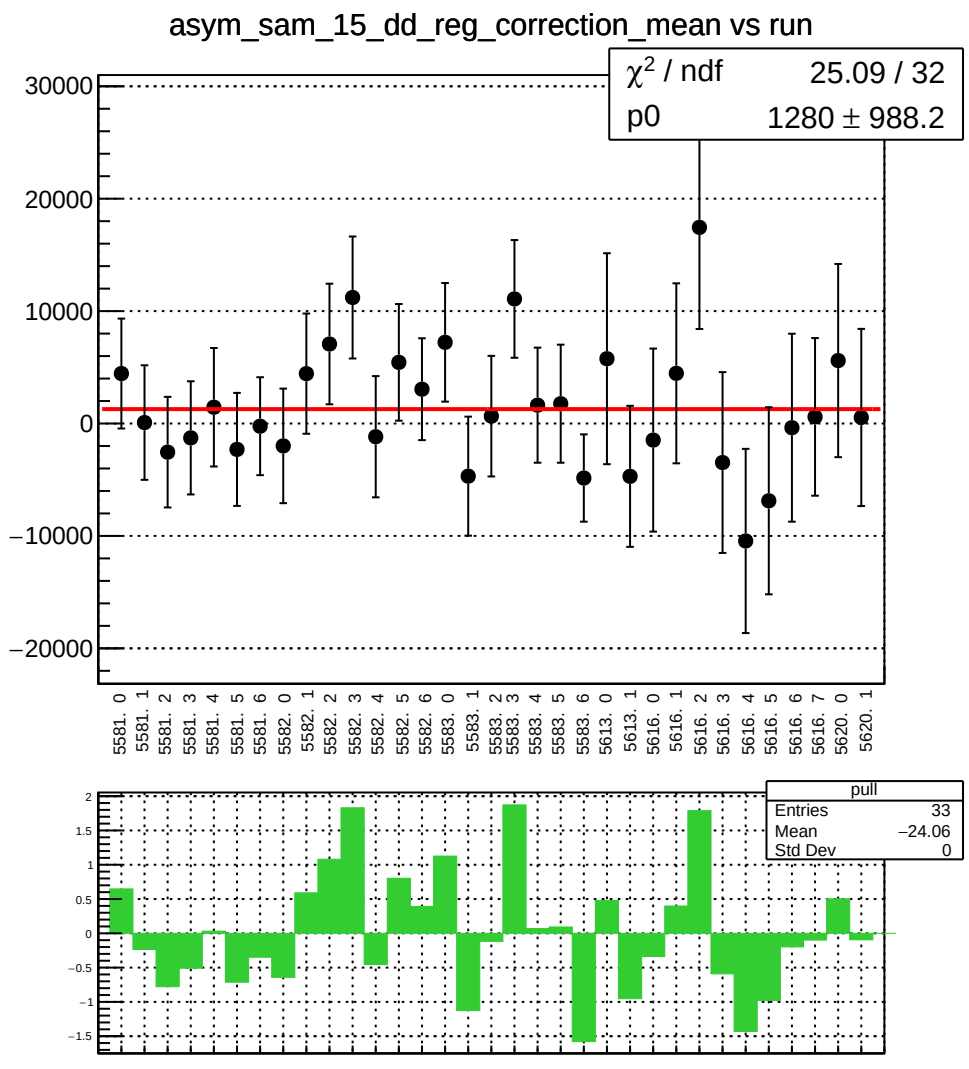

pull1D
Entries 26
Mean −0.09628
Std Dev 0.8472
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

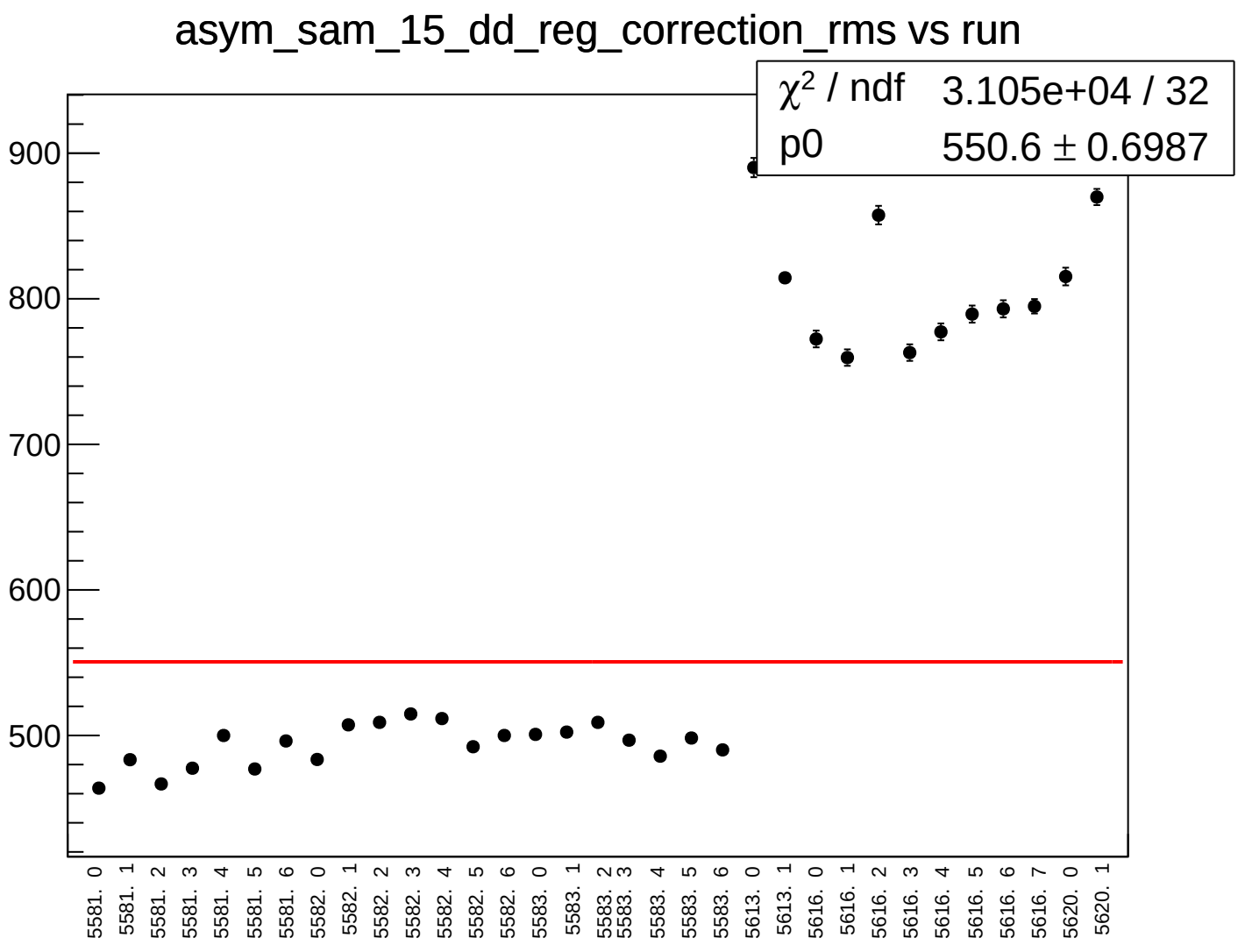

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.368e+05 / 25
p0 1.836e−11 ± 3.461e−14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

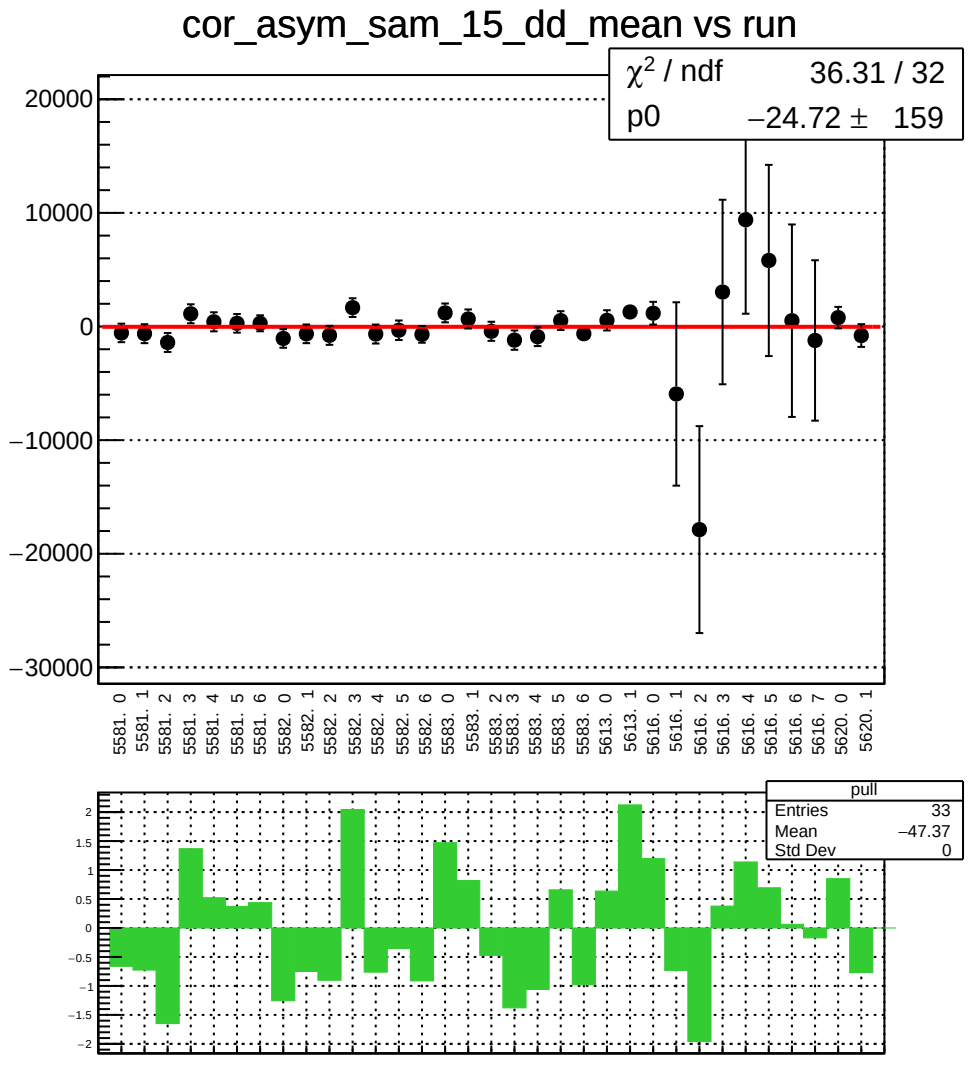

reg_asym_sam_15_dd_mean vs run
χ² / ndf 34.34 / 32
p0 −106.5 ± 146.8
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 11.32
Std Dev 18.38
2
1.5
1
0.5
0
−0.5
−1
−1.5

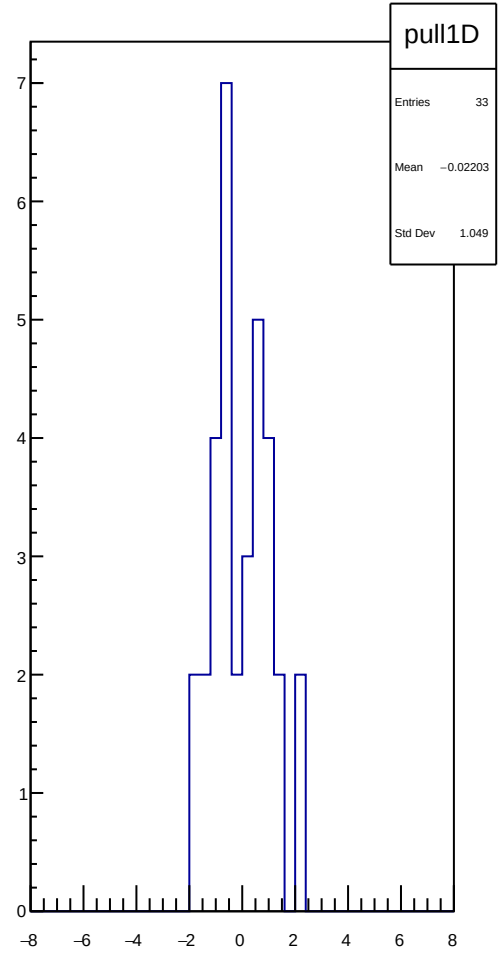

pull1D
Entries 33
Mean −0.03232
Std Dev 1.02
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

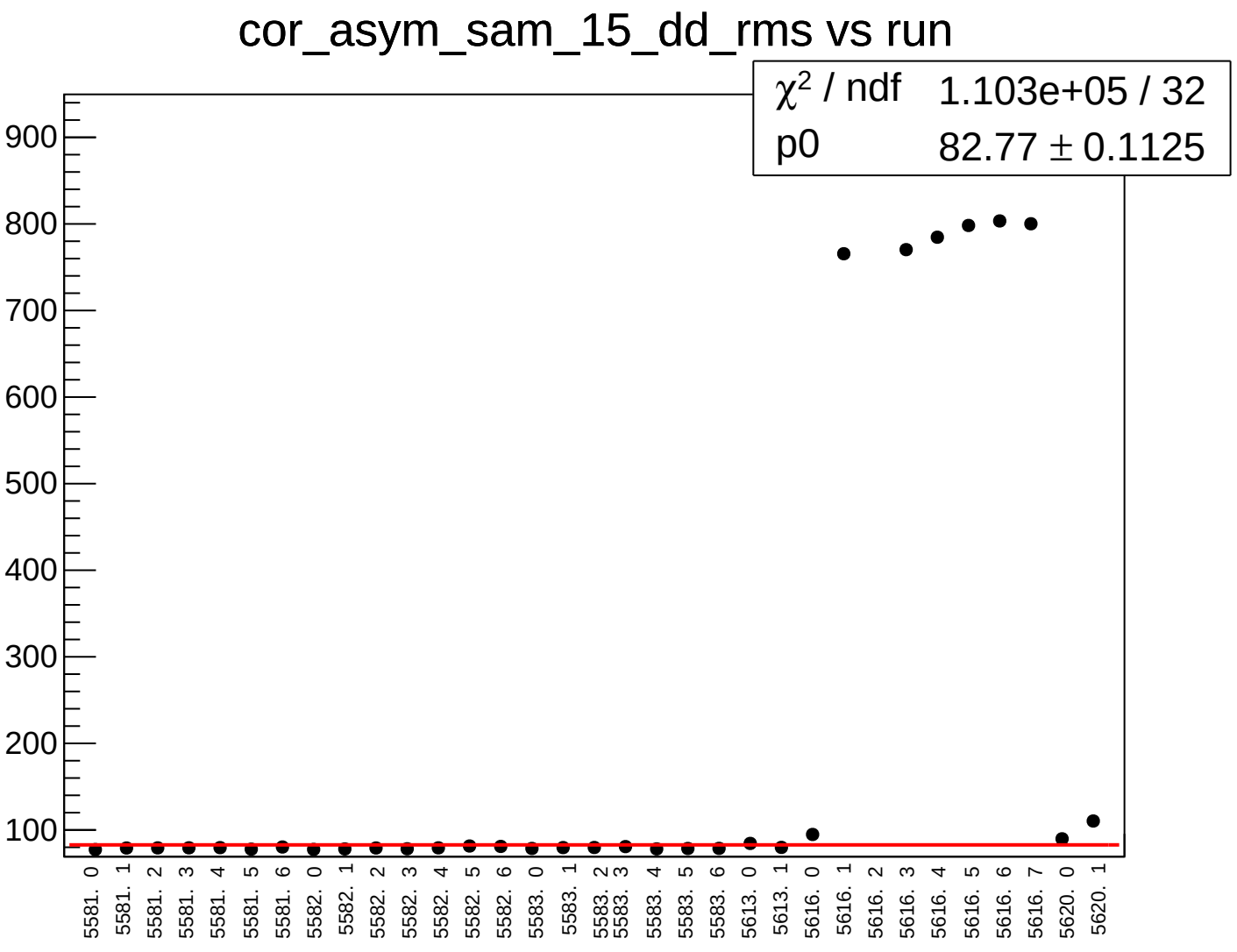

reg_asym_sam_15_dd_rms vs run
χ² / ndf 8264 / 32
p0 83.3 ± 0.1038
130
120
110
100
90
80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

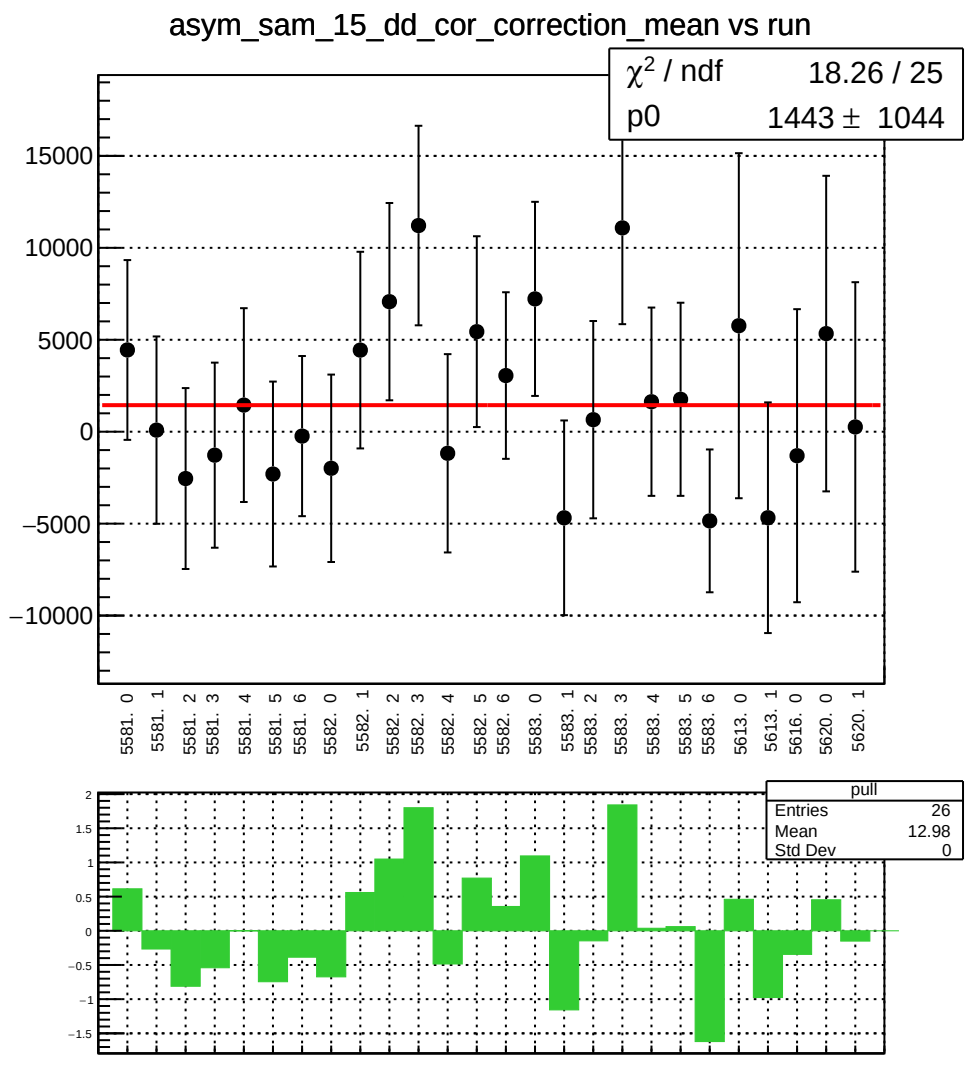

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 25.09 / 32
p0 1280 ± 988.2
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −24.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.0156
Std Dev 0.8717
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

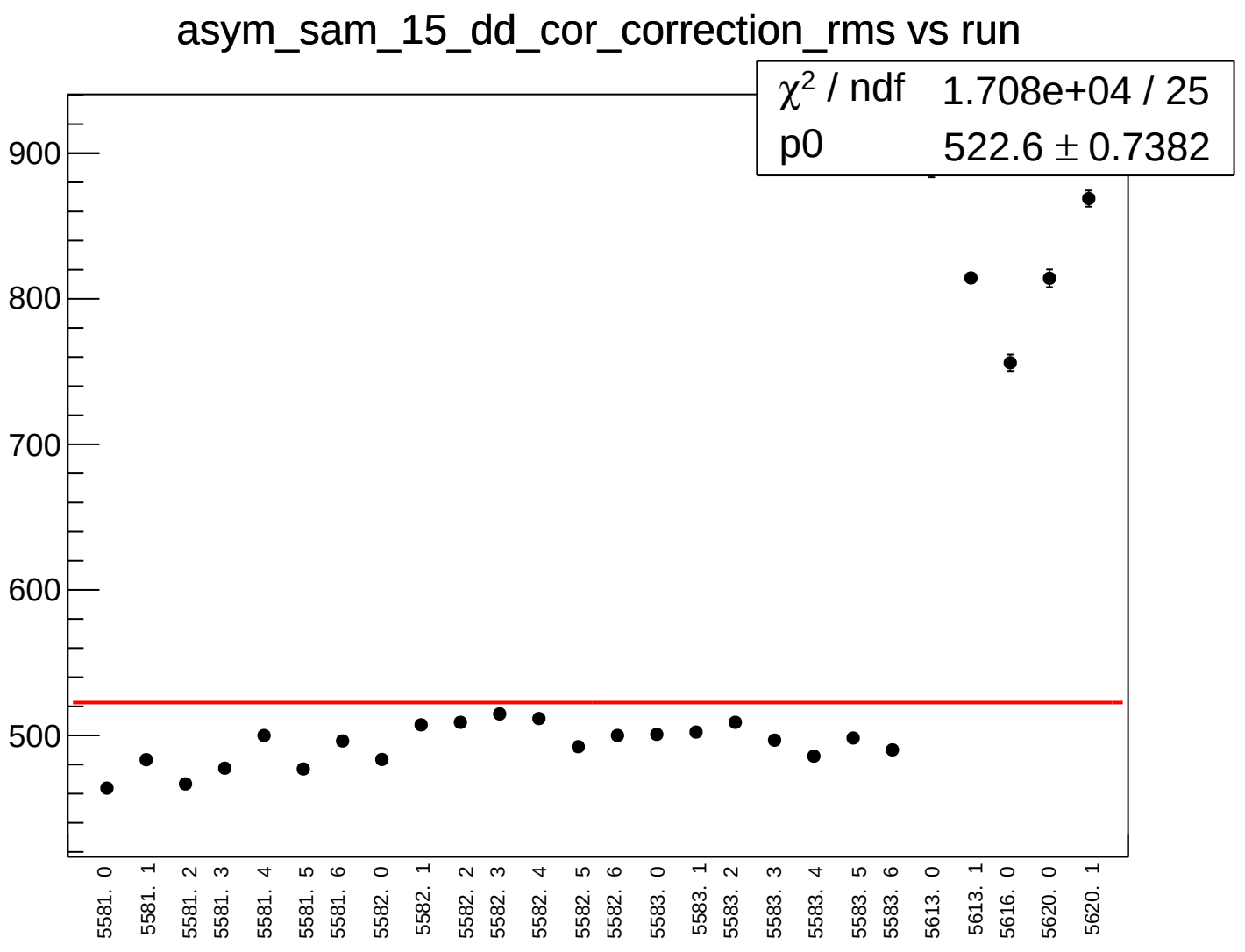

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 3.105e+04 / 32
p0 550.6 ± 0.6987
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

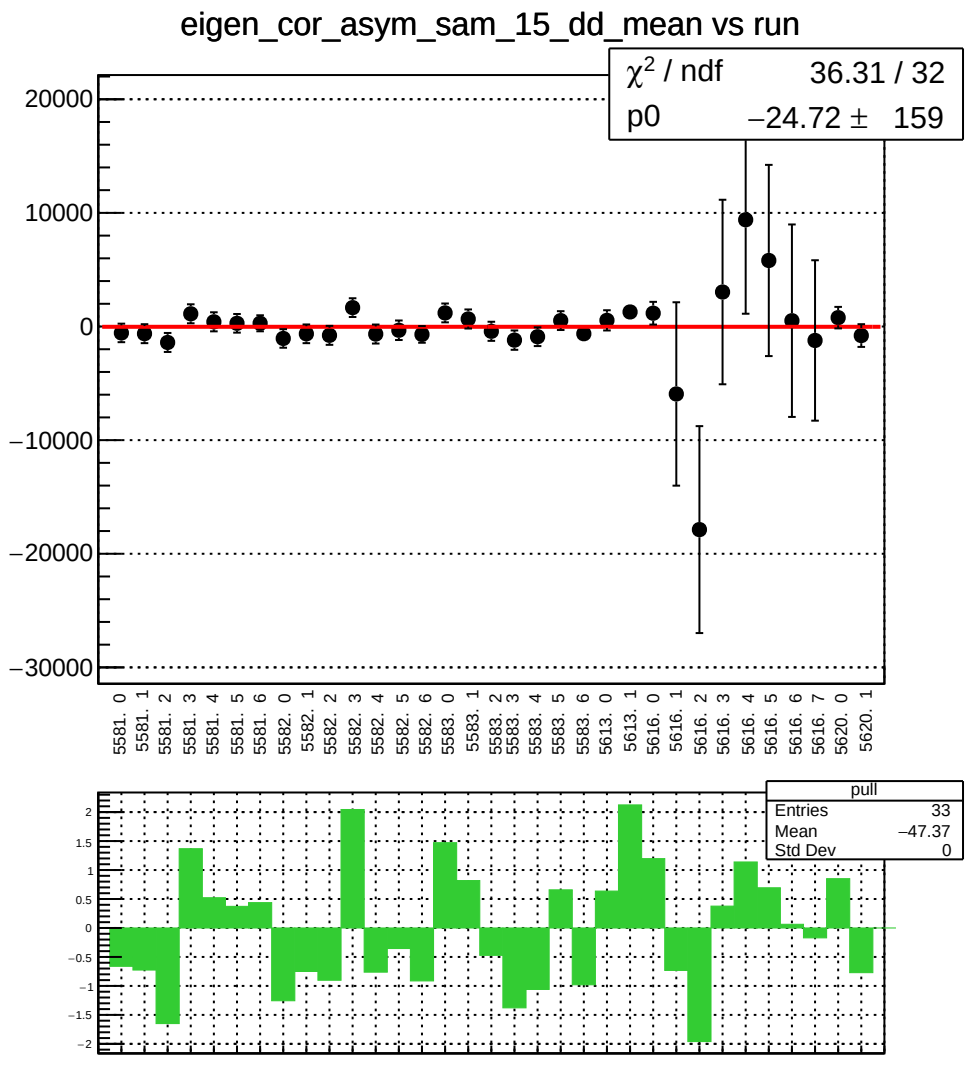

cor_asym_sam_15_dd_mean vs run
χ² / ndf 36.31 / 32
p0 −24.72 ± 159
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −47.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

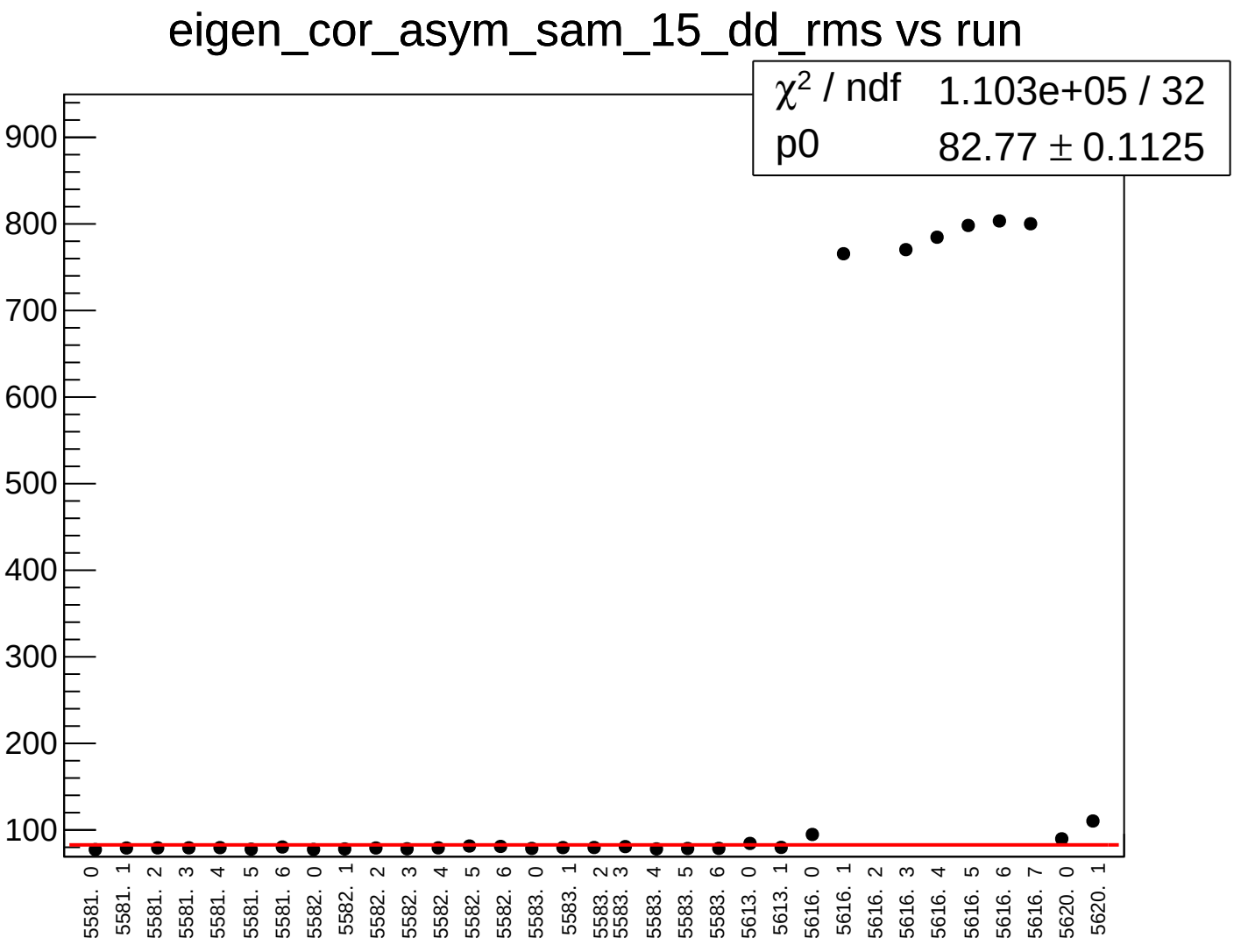

pull1D
Entries 33
Mean −0.02203
Std Dev 1.049
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

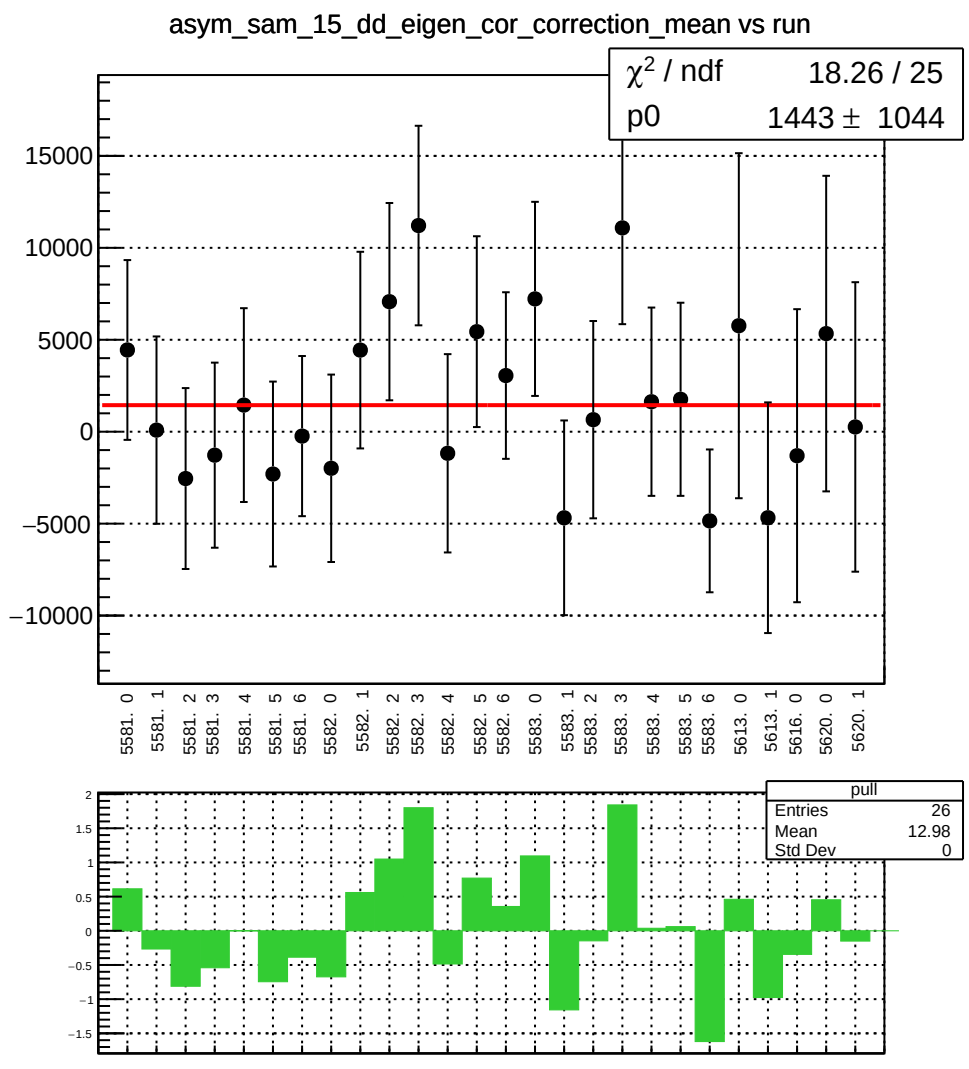

cor_asym_sam_15_dd_rms vs run
χ² / ndf 1.103e+05 / 32
p0 82.77 ± 0.1125
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

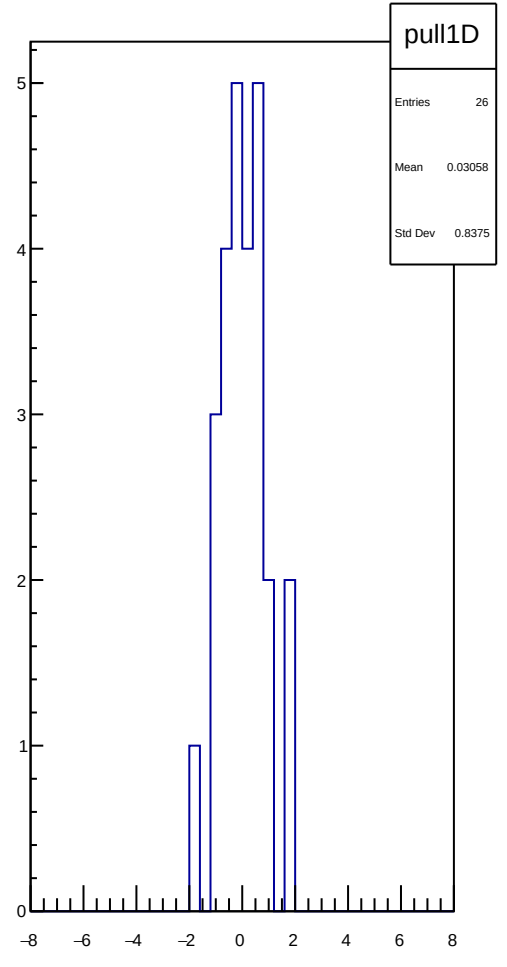

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 18.26 / 25
p0 1443 ± 1044
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 12.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.03058
Std Dev 0.8375
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

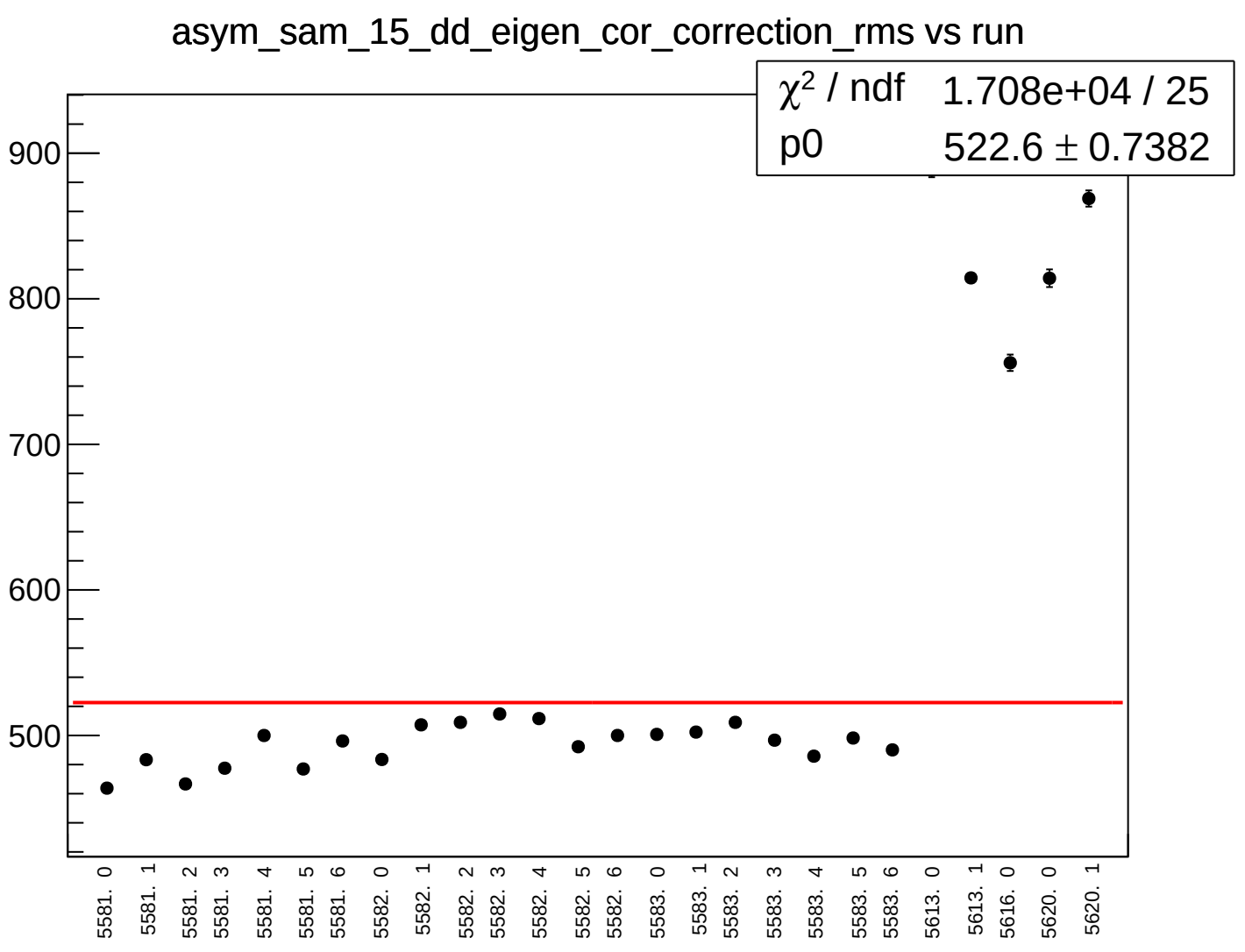

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 1.708e+04 / 25
p0 522.6 ± 0.7382
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

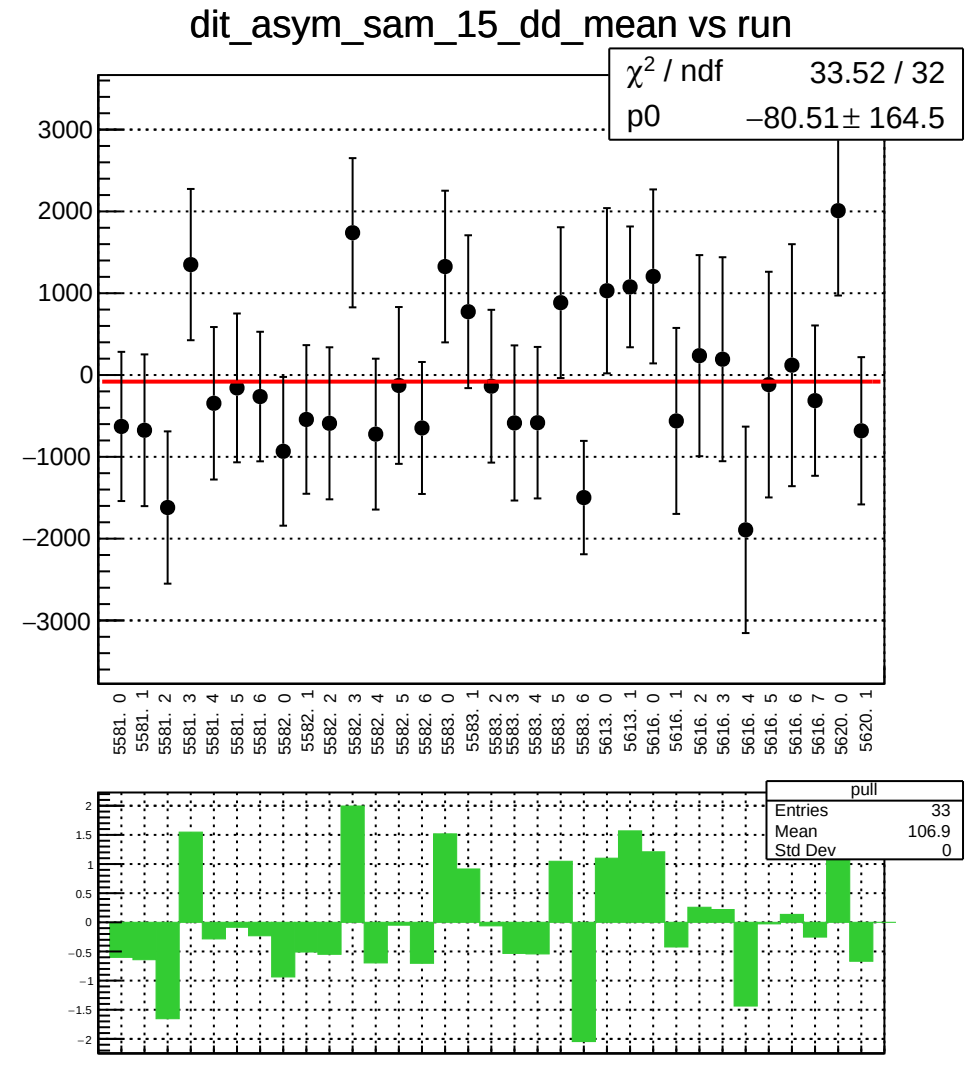

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 36.31 / 32
p0 −24.72 ± 159
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −47.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02203
Std Dev 1.049
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

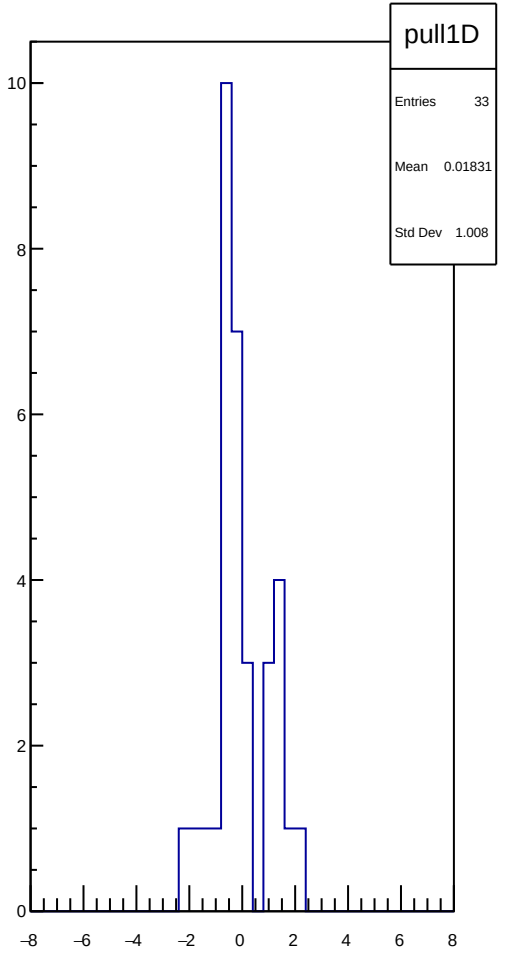

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 1.103e+05 / 32
p0 82.77 ± 0.1125
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

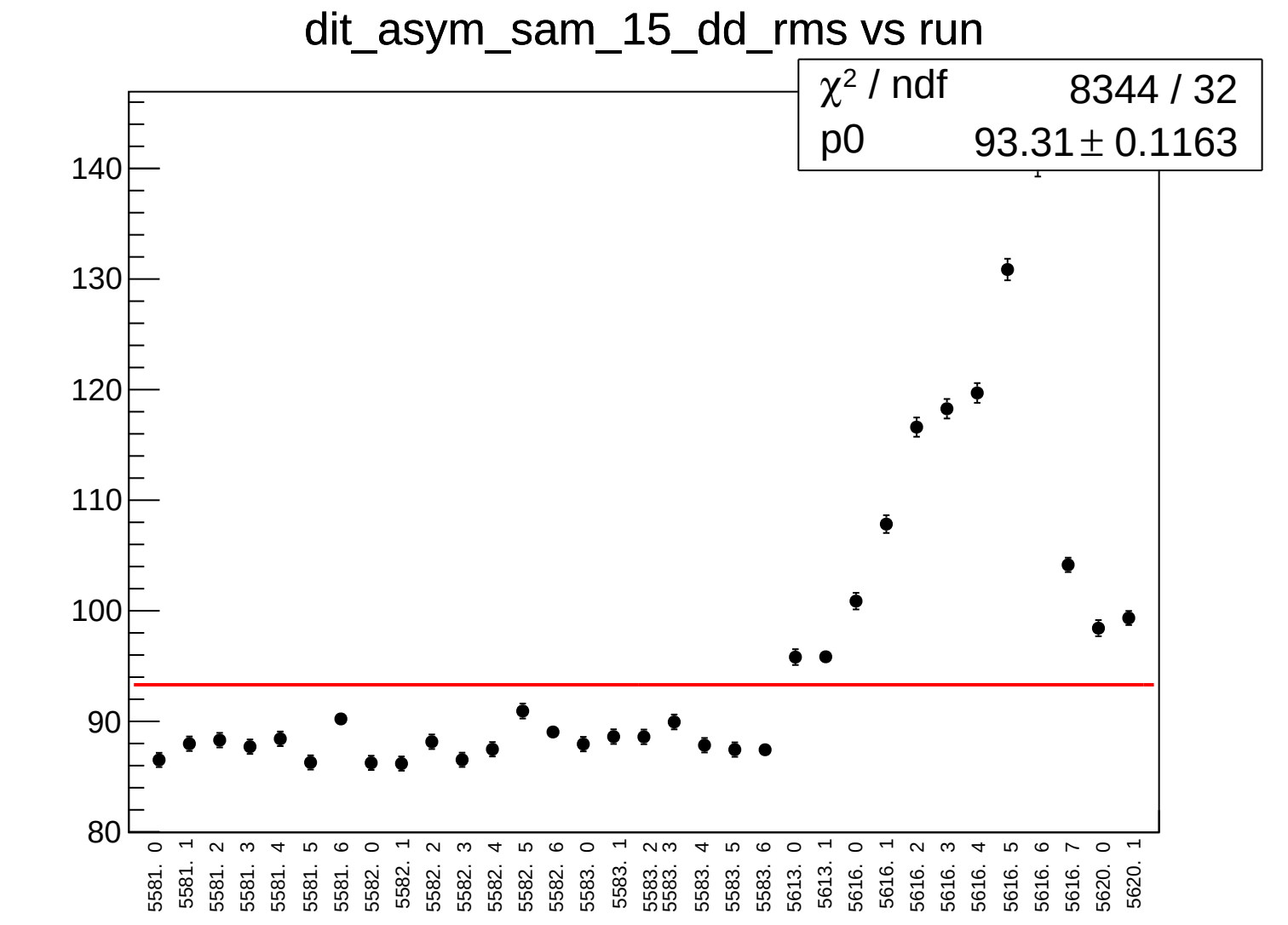

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 18.26 / 25
p0 1443 ± 1044
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 12.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

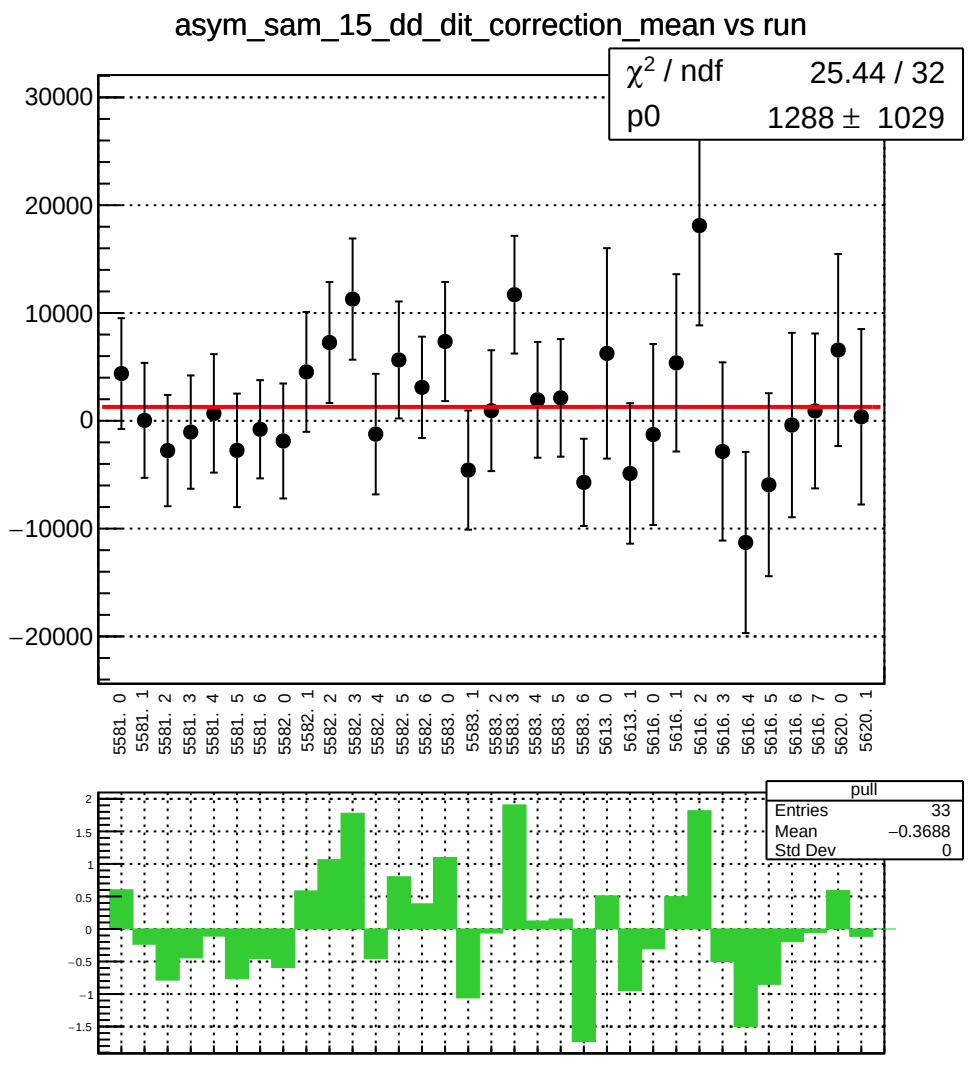

pull1D
Entries 26
Mean 0.03058
Std Dev 0.8375
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

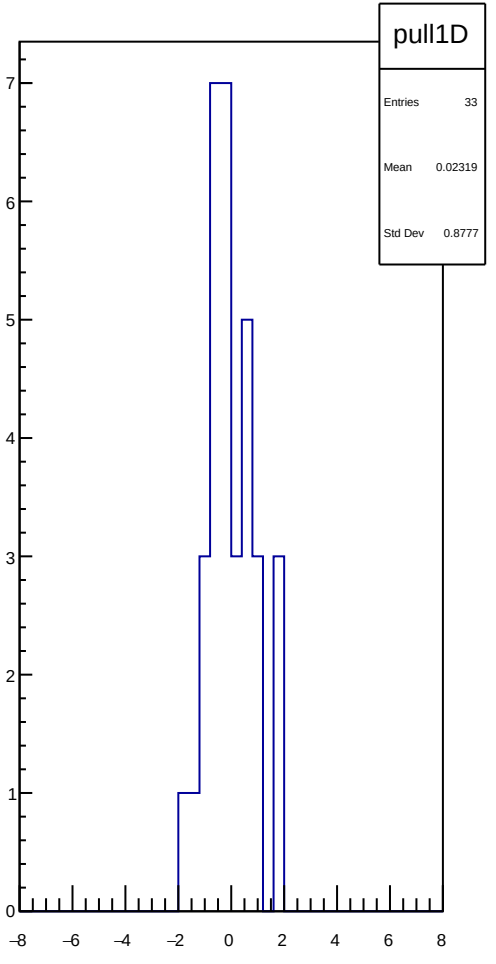

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.708e+04 / 25
p0 522.6 ± 0.7382
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

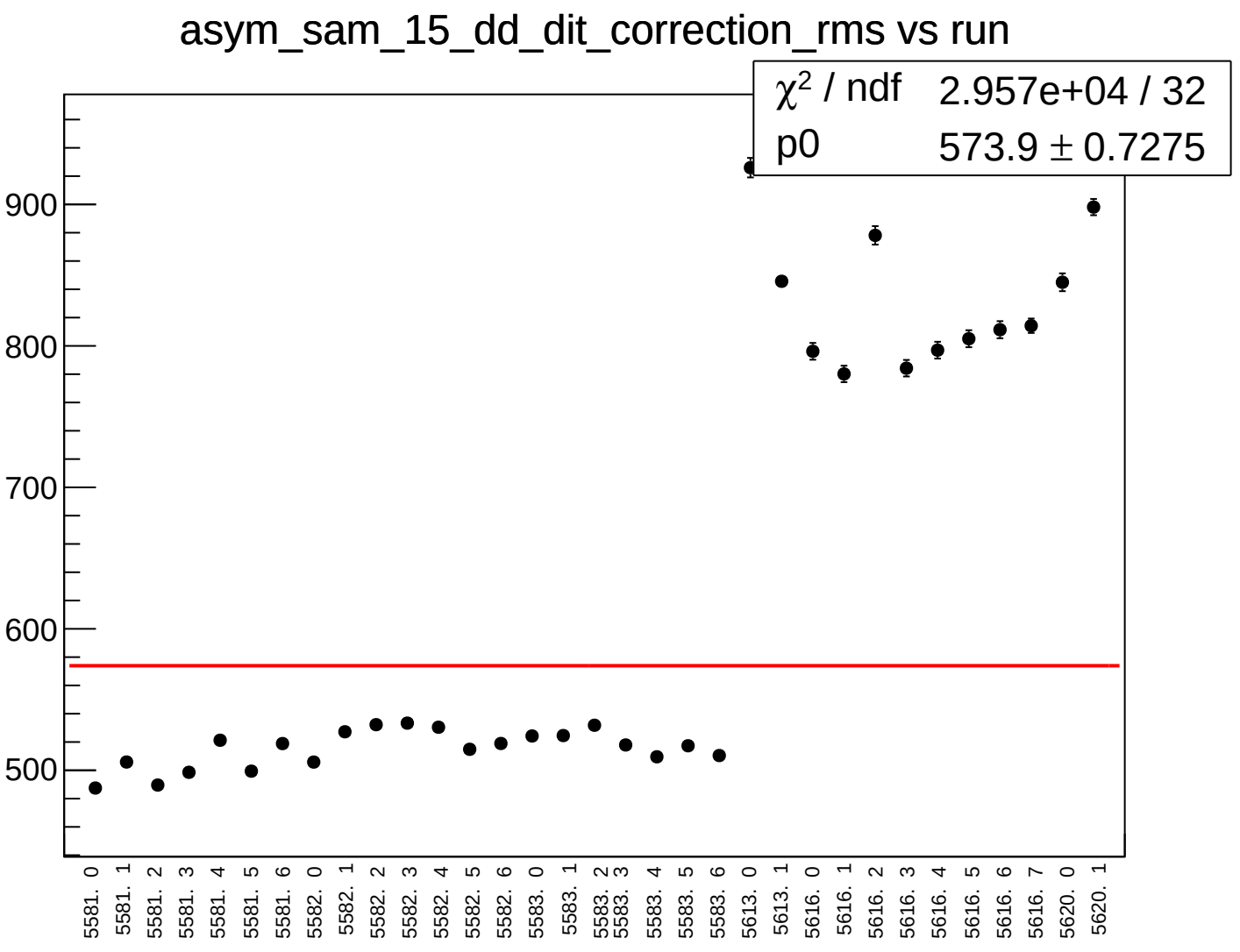

dit_asym_sam_15_dd_mean vs run
χ² / ndf 33.52 / 32
p0 −80.51 ± 164.5
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 106.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

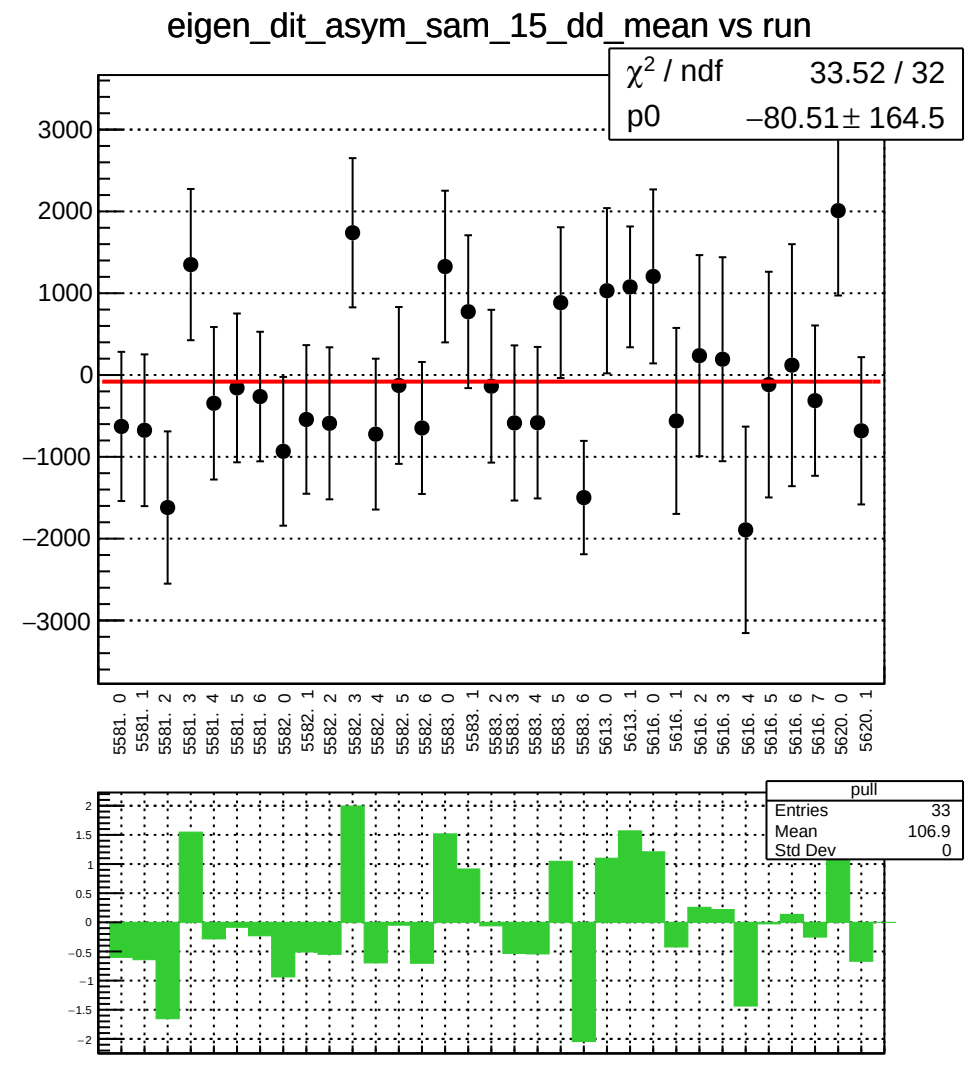

pull1D
Entries 33
Mean 0.01831
Std Dev 1.008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

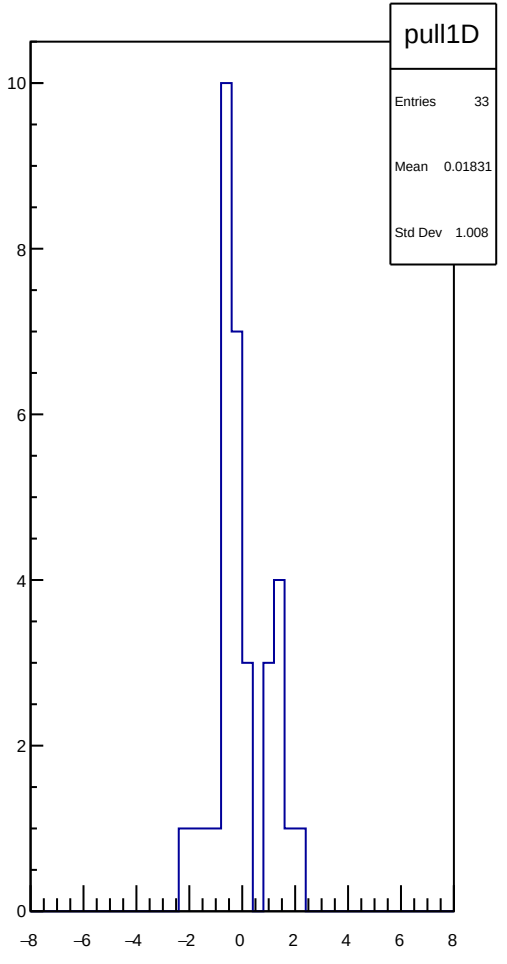

dit_asym_sam_15_dd_rms vs run
χ² / ndf 8344 / 32
p0 93.31 ± 0.1163
140
130
120
110
100
90
80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

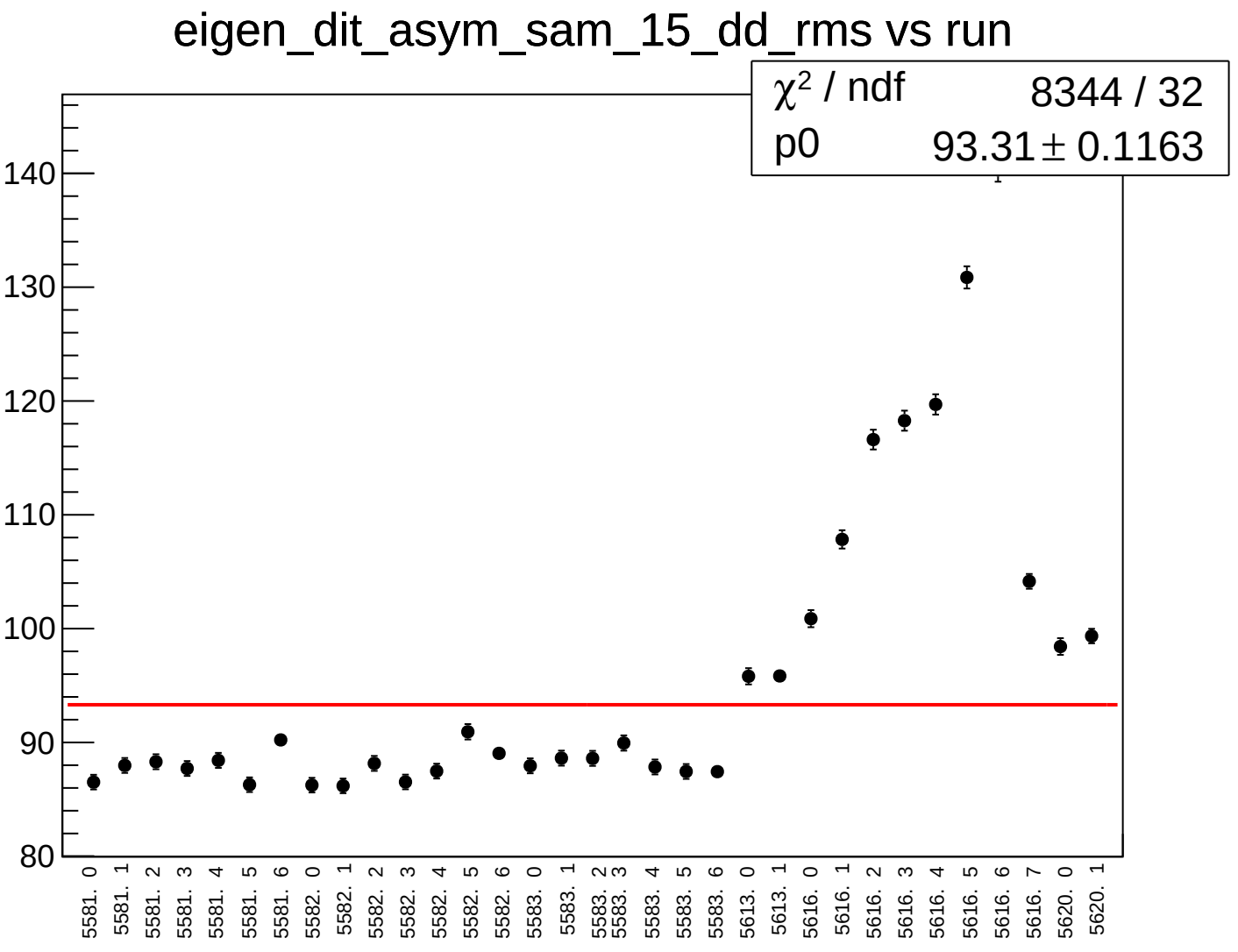

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 25.44 / 32
p0 1288 ± 1029
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.3688
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

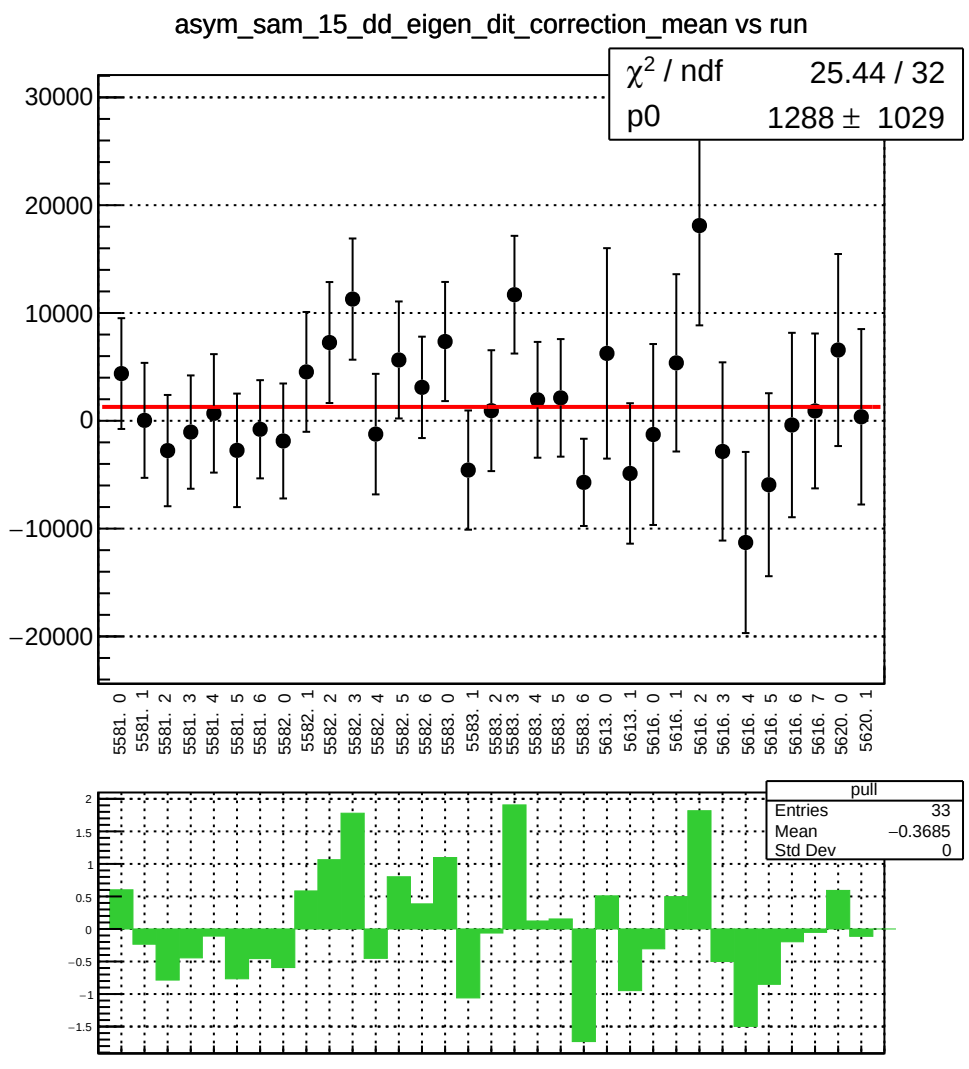

pull1D
Entries 33
Mean 0.02319
Std Dev 0.8777
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

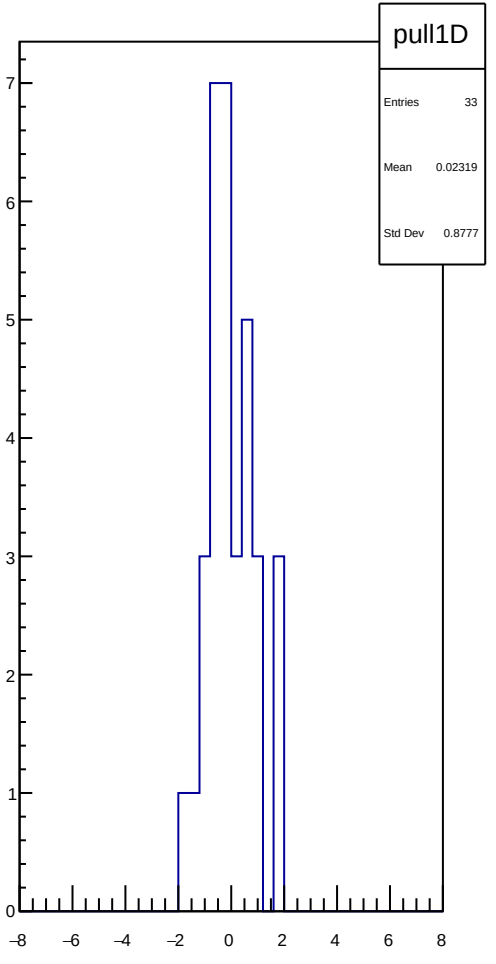

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2.957e+04 / 32
p0 573.9 ± 0.7275
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

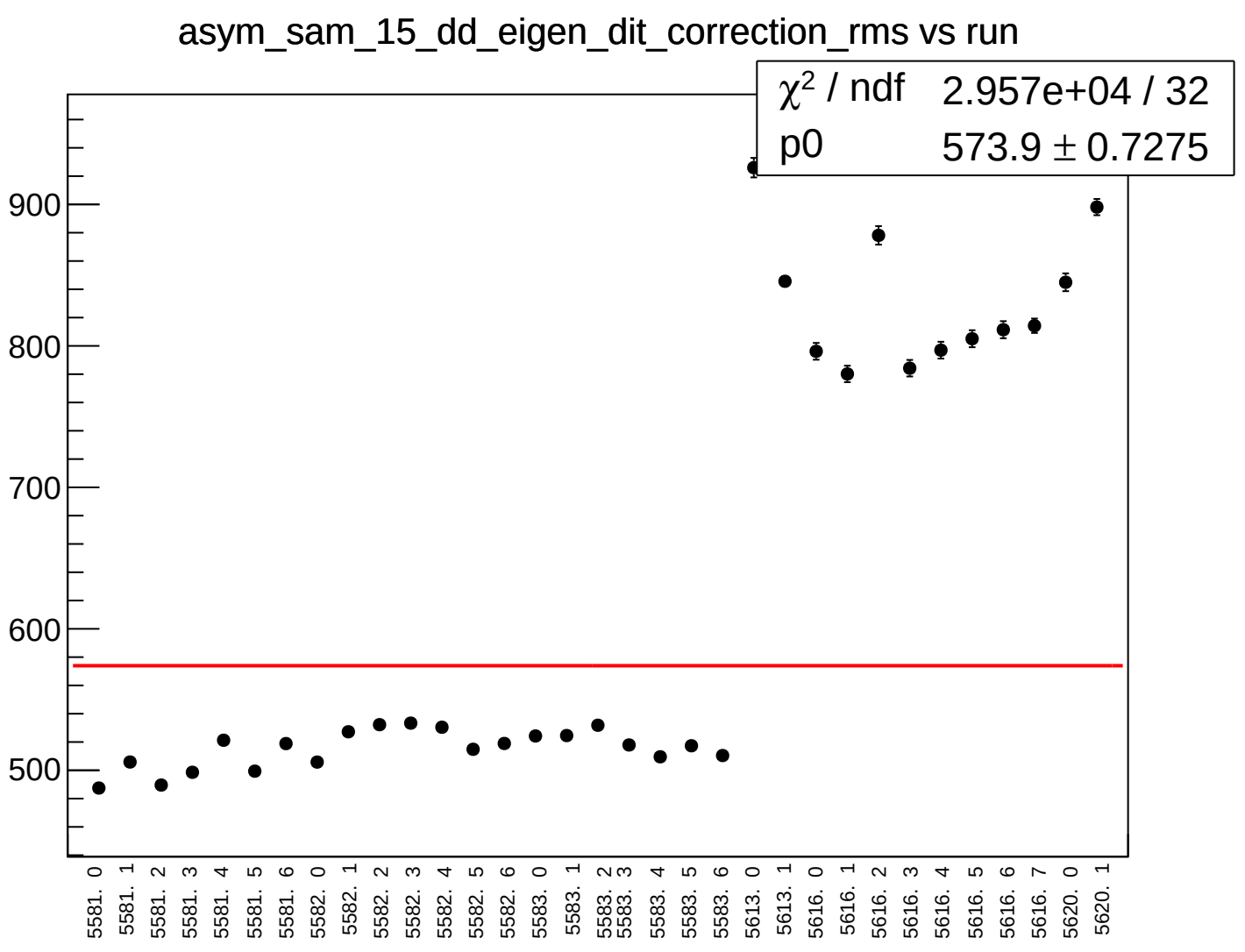

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 33.52 / 32
p0 −80.51 ± 164.5
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 106.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

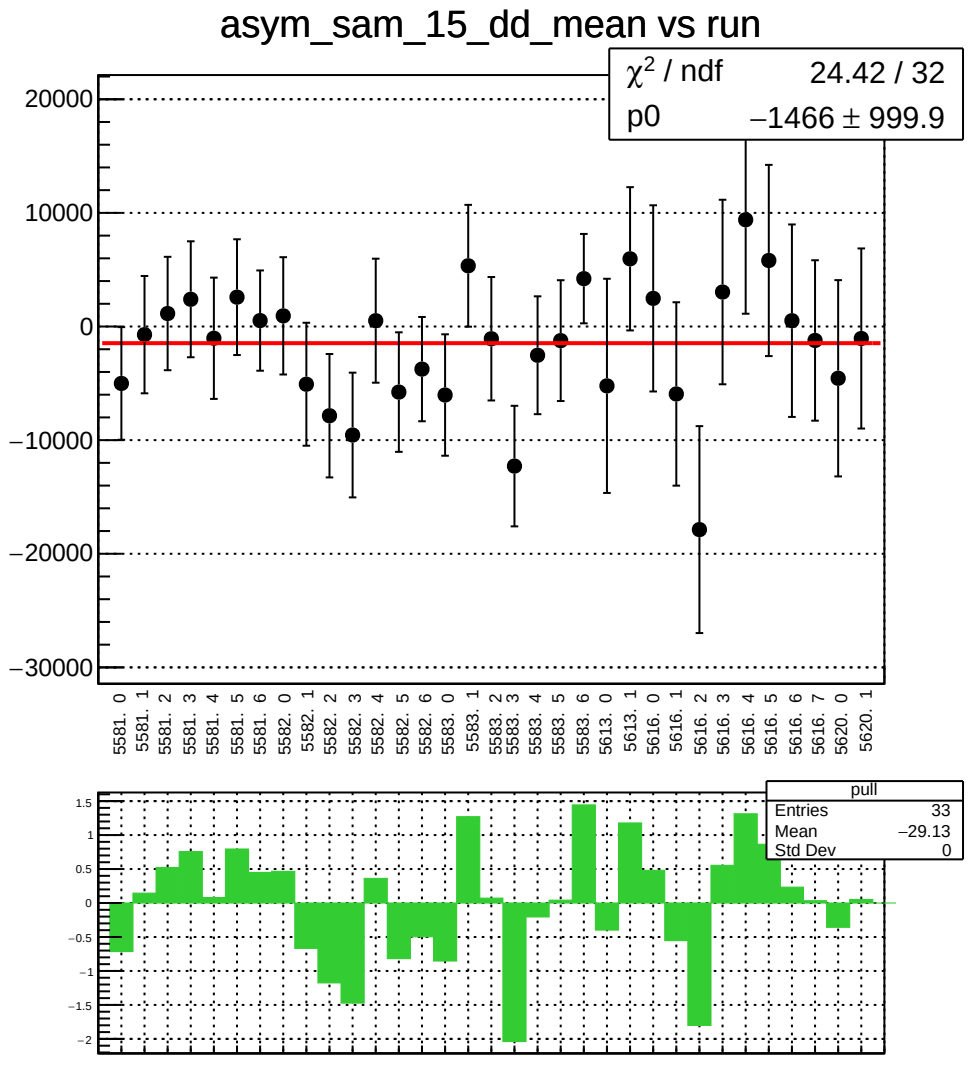

pull1D
Entries 33
Mean 0.01831
Std Dev 1.008
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

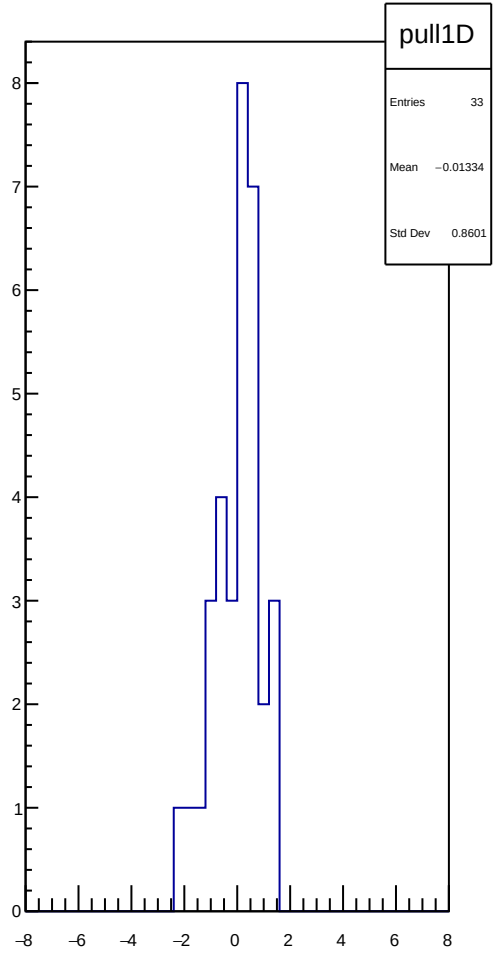

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 8344 / 32
p0 93.31 ± 0.1163
140
130
120
110
100
90
80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

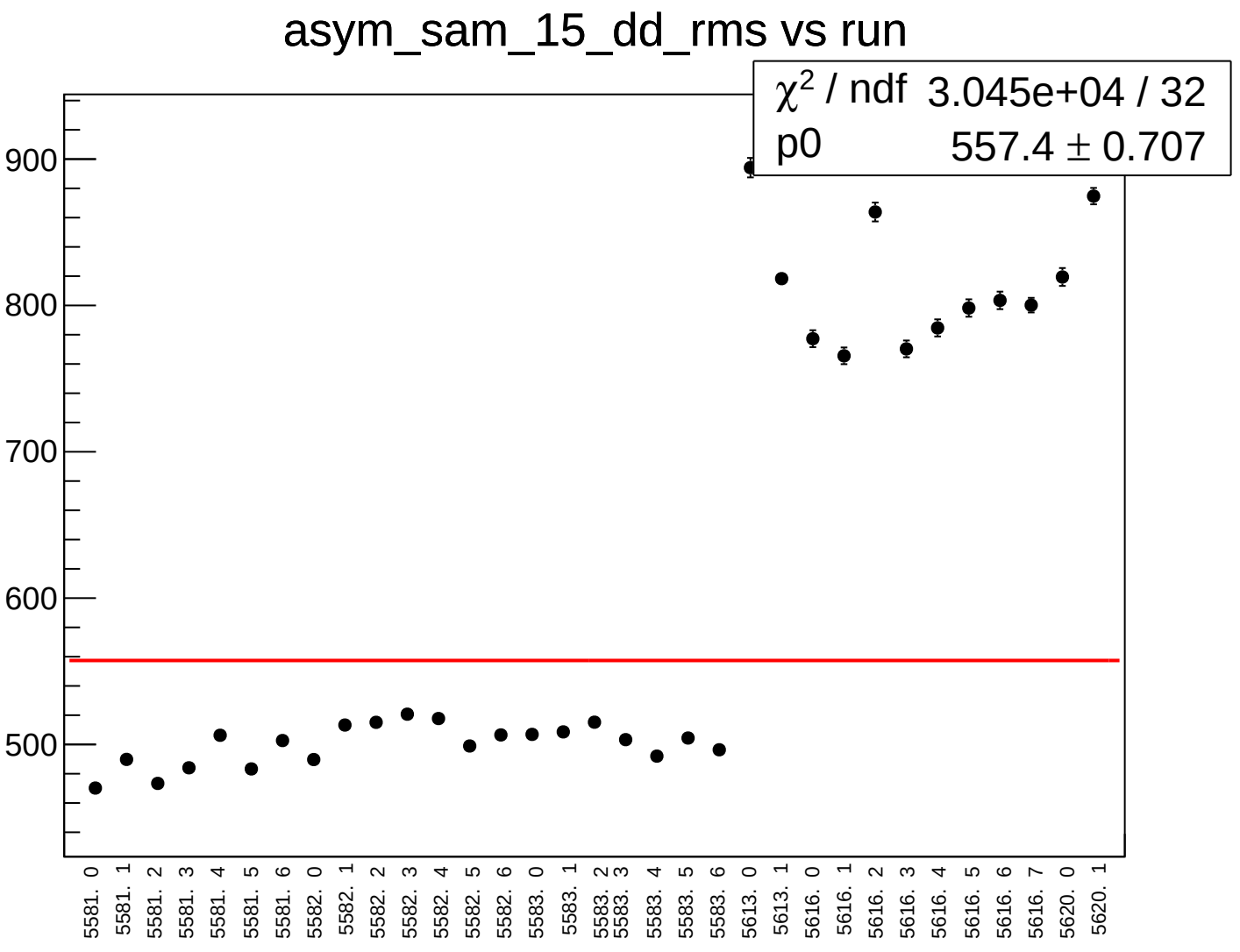

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 25.44 / 32
p0 1288 ± 1029
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.3685
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

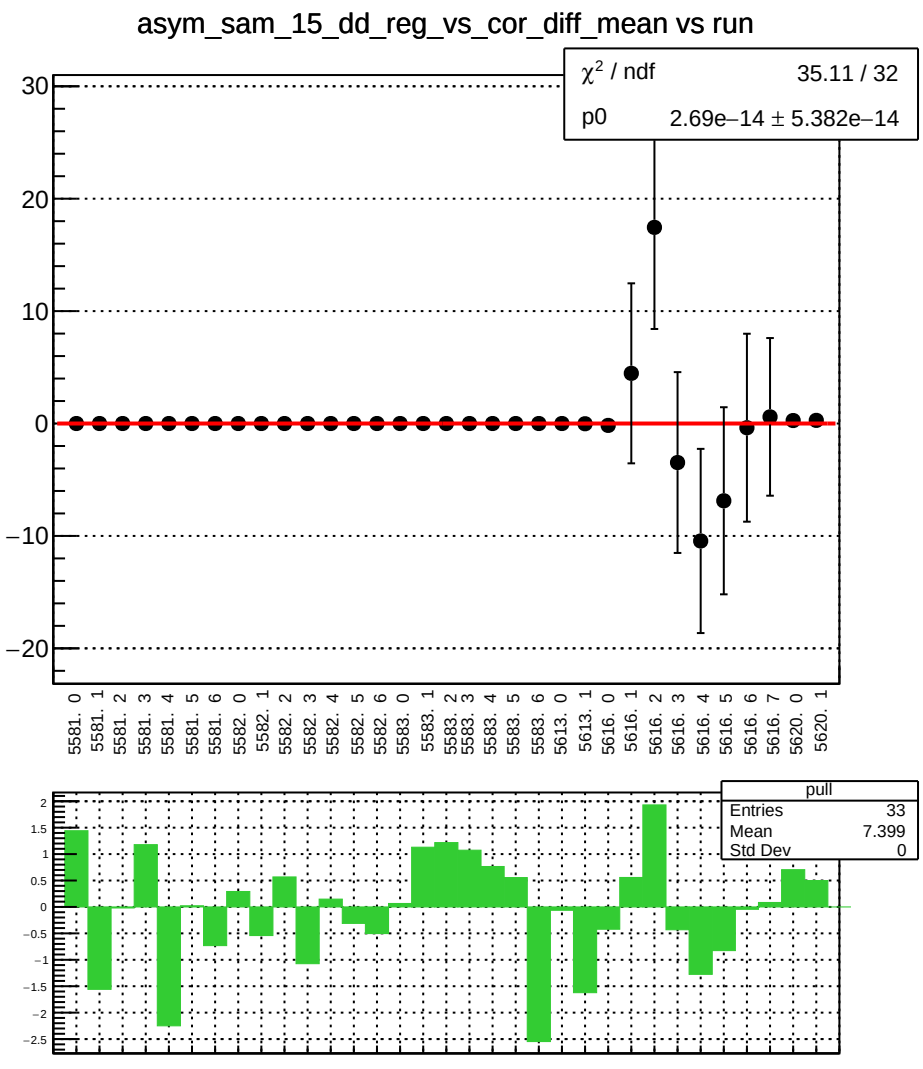

pull1D
Entries 33
Mean 0.02319
Std Dev 0.8777
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

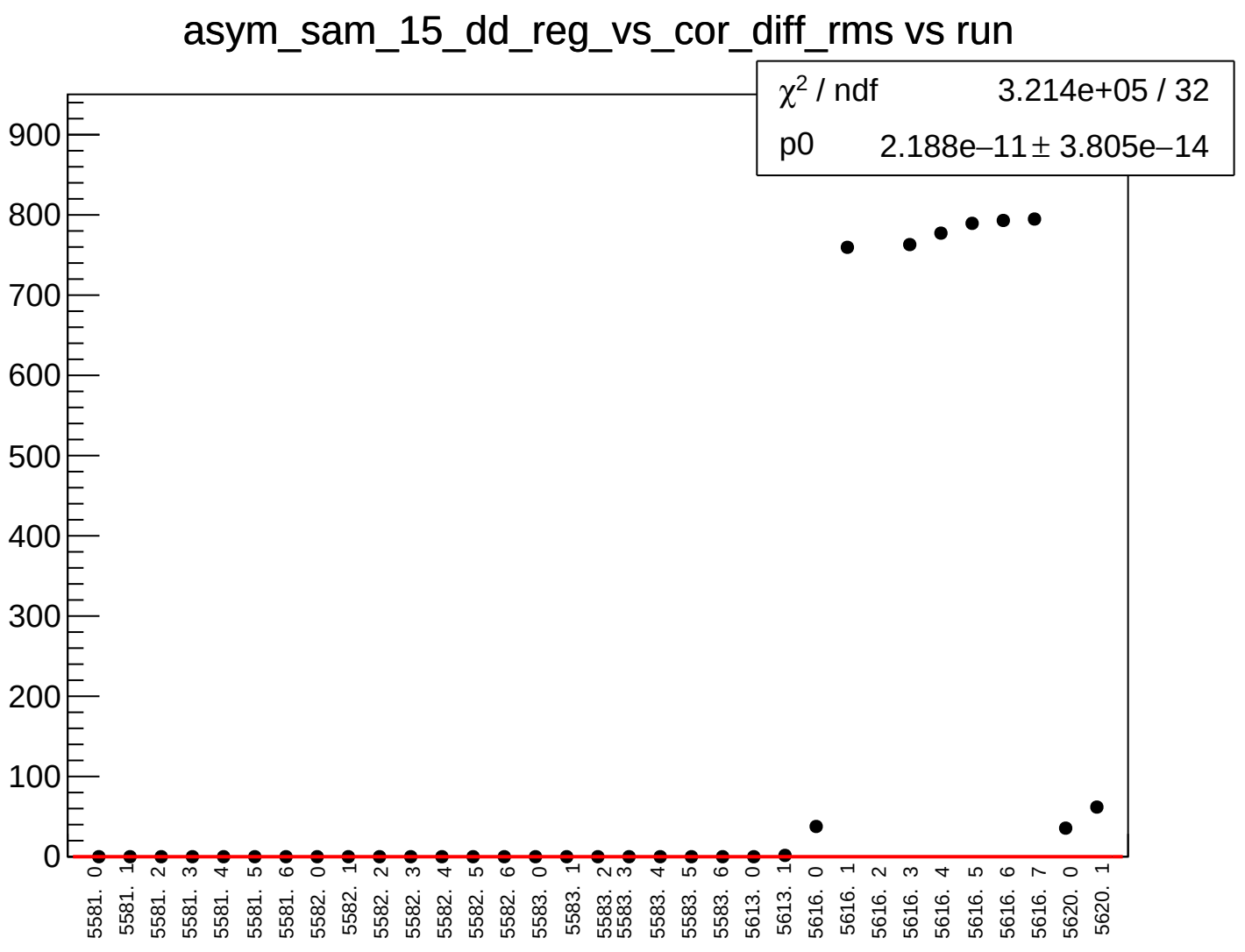

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.957e+04 / 32
p0 573.9 ± 0.7275
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

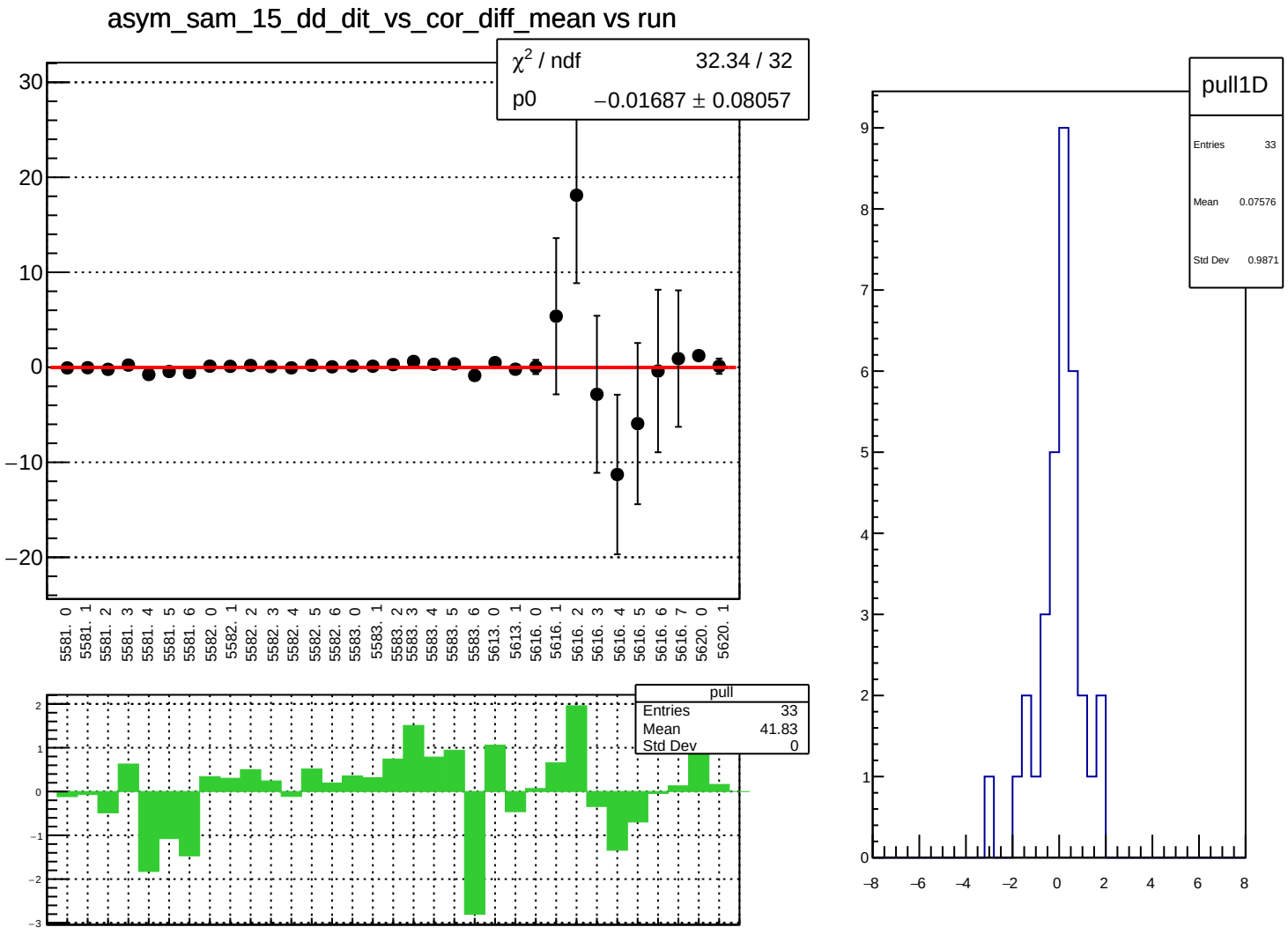

asym_sam_15_dd_mean vs run
χ² / ndf 24.42 / 32
p0 −1466 ± 999.9
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −29.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

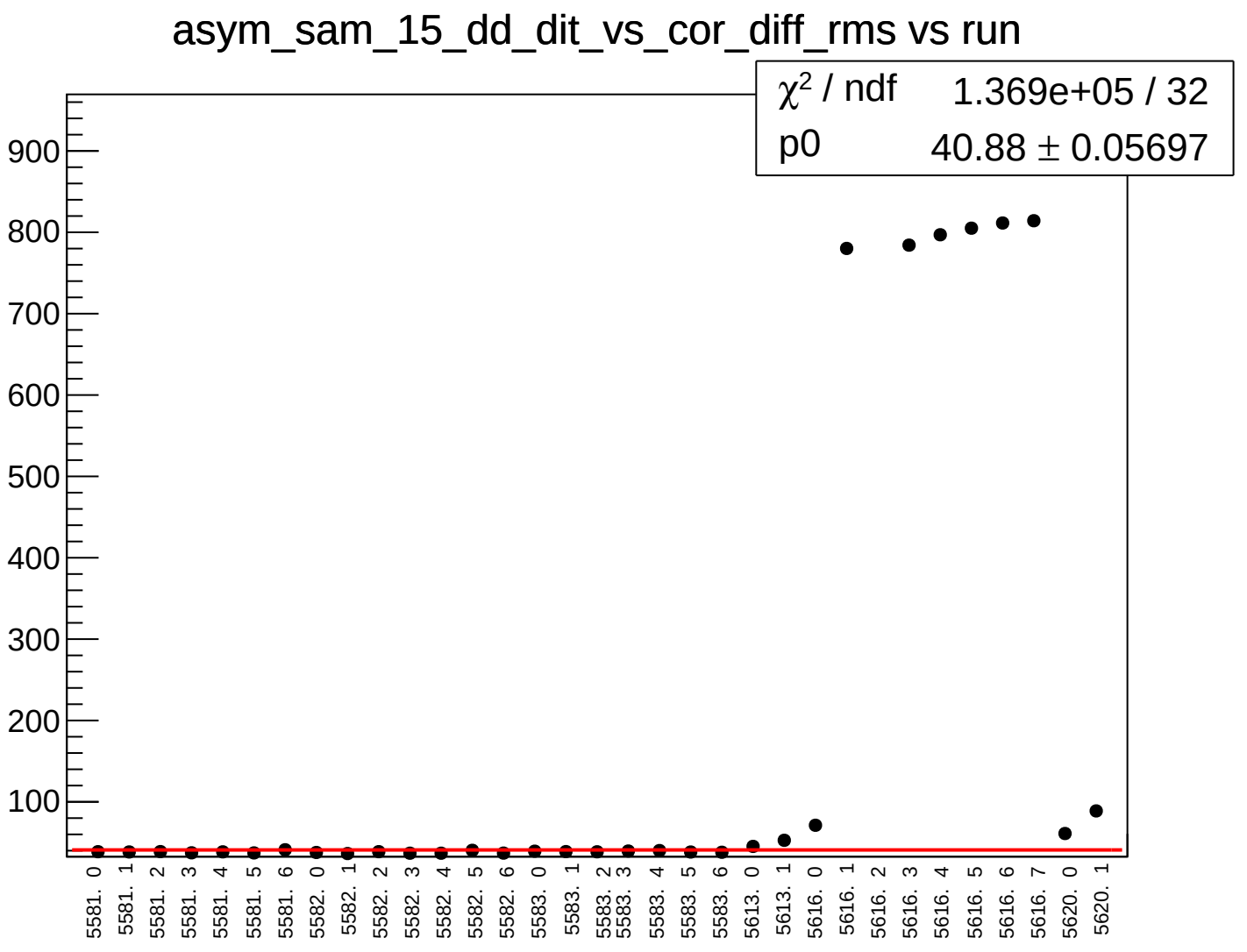

pull1D
Entries 33
Mean −0.01334
Std Dev 0.8601
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

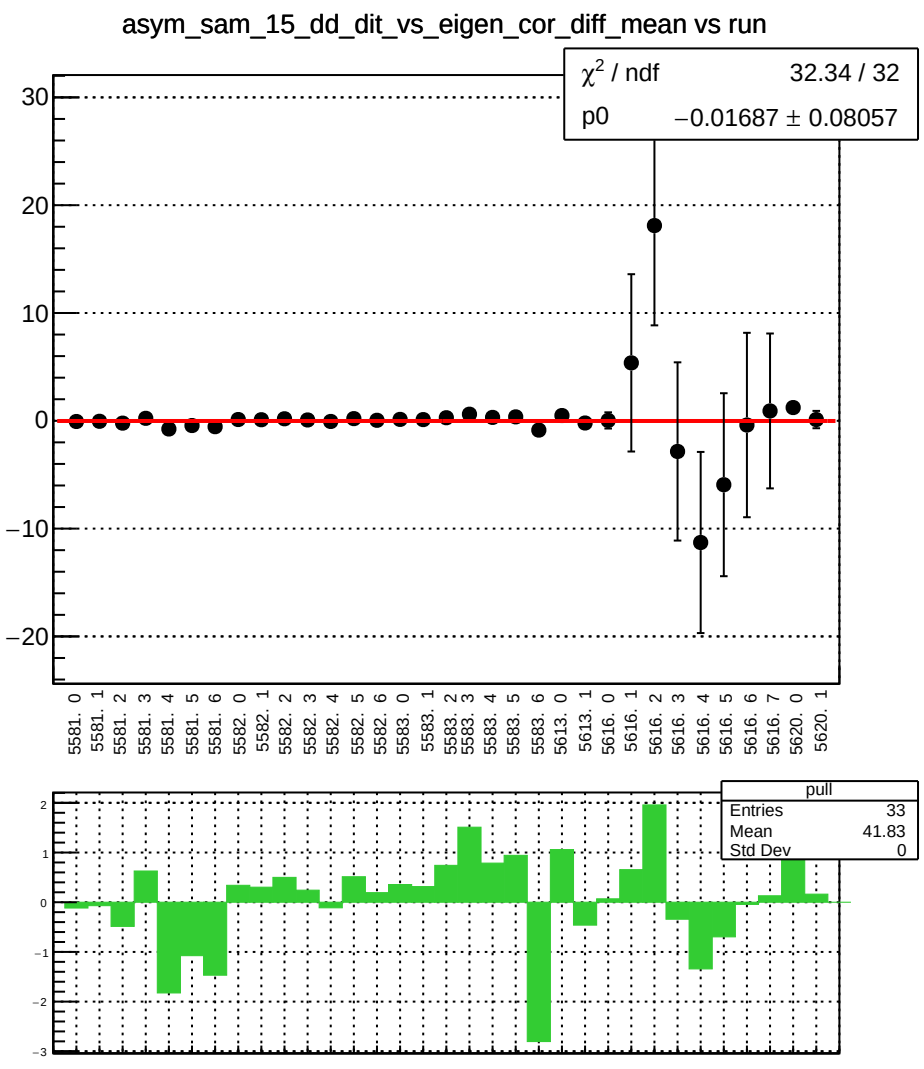

asym_sam_15_dd_rms vs run
χ^2 / ndf 3.045e+04 / 32
p0 557.4 ± 0.707
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

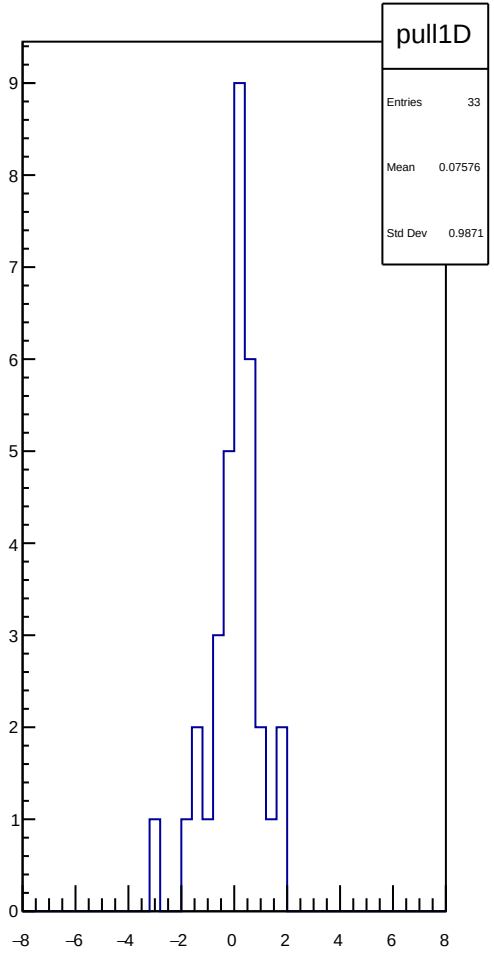

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 35.11 / 32
p0 2.69e−14 ± 5.382e−14
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 7.399
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.06021
Std Dev 1.03
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

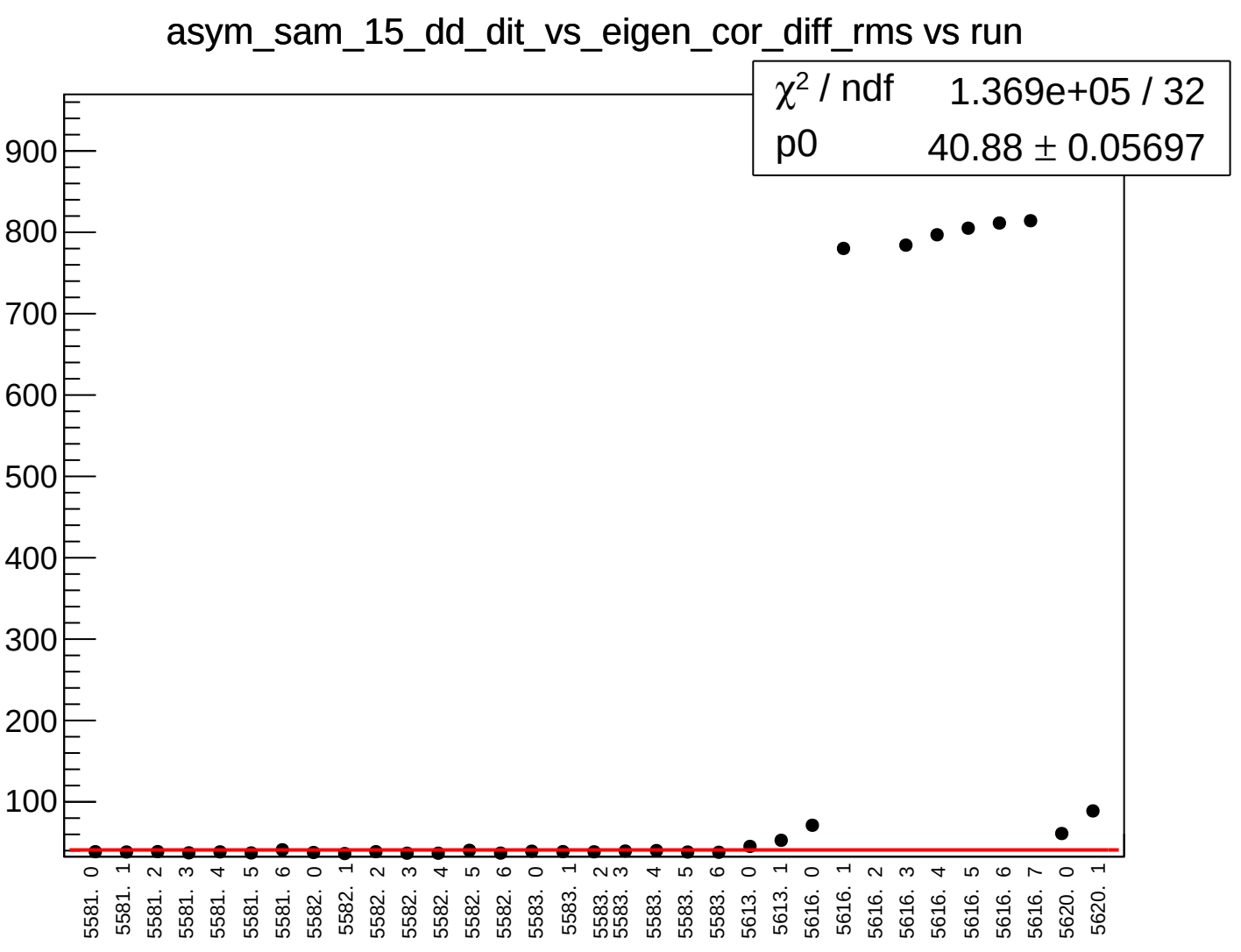

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.214e+05 / 32
p0 2.188e−11 ± 3.805e−14
900
800
700
600
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

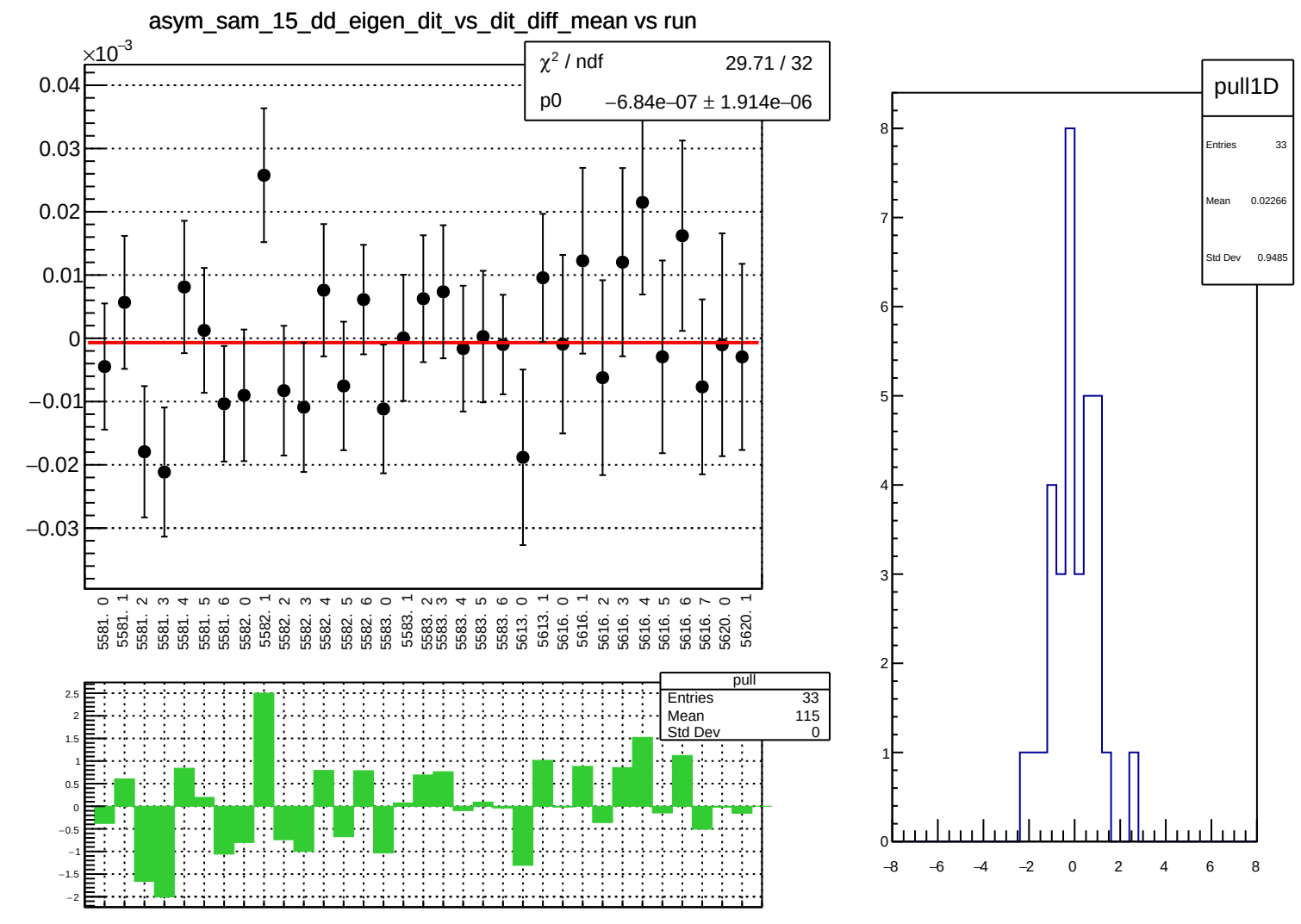

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 32.34 / 32
p0 −0.01687 ± 0.08057
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 41.83
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.07576
Std Dev 0.9871
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

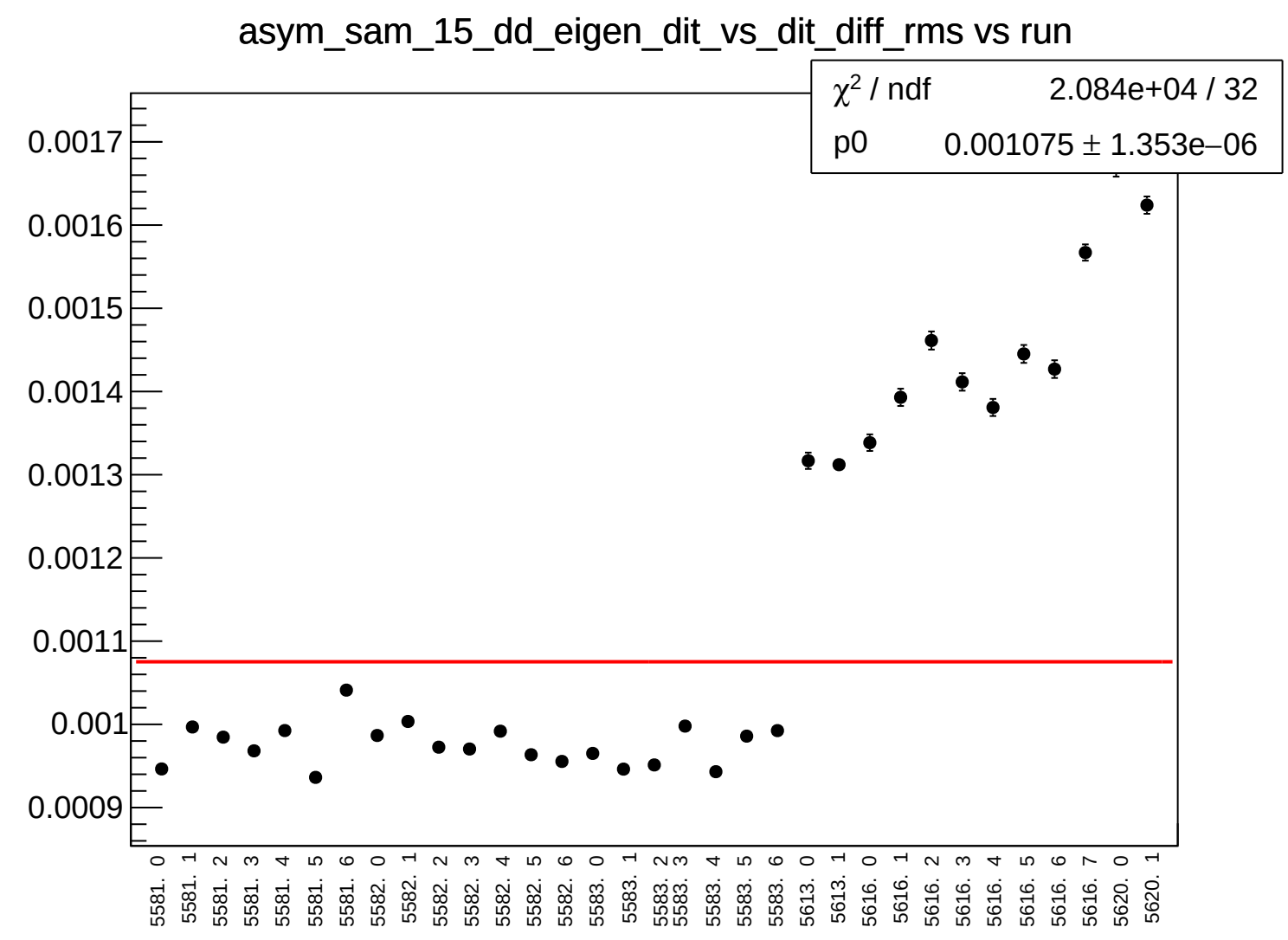

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.369e+05 / 32
p0 40.88 ± 0.05697
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

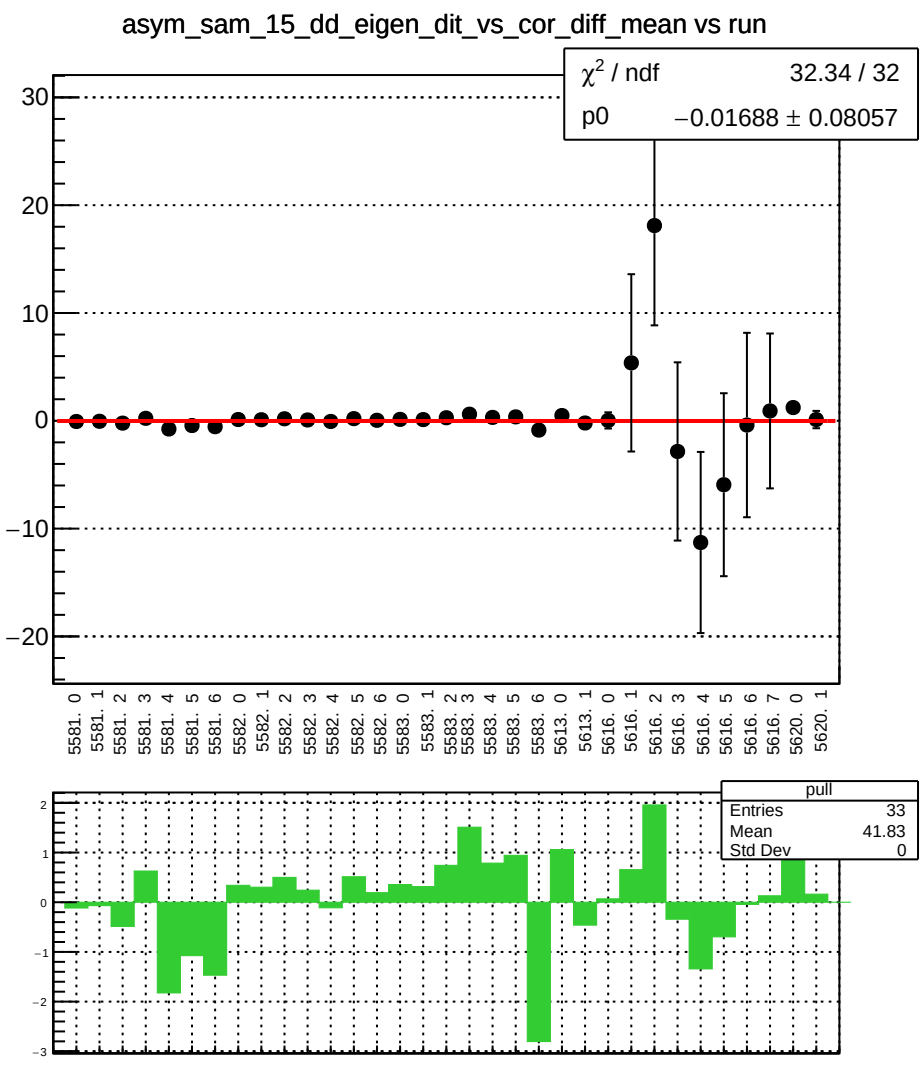

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.34 / 32
p0 −0.01687 ± 0.08057
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 41.83
Std Dev 0
2
1
0
−1
−2
−3

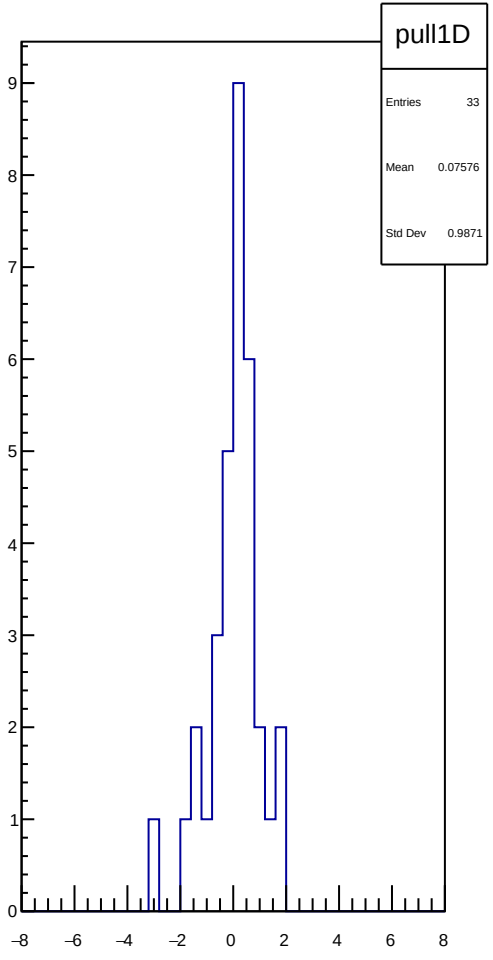

pull1D
Entries 33
Mean 0.07576
Std Dev 0.9871
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

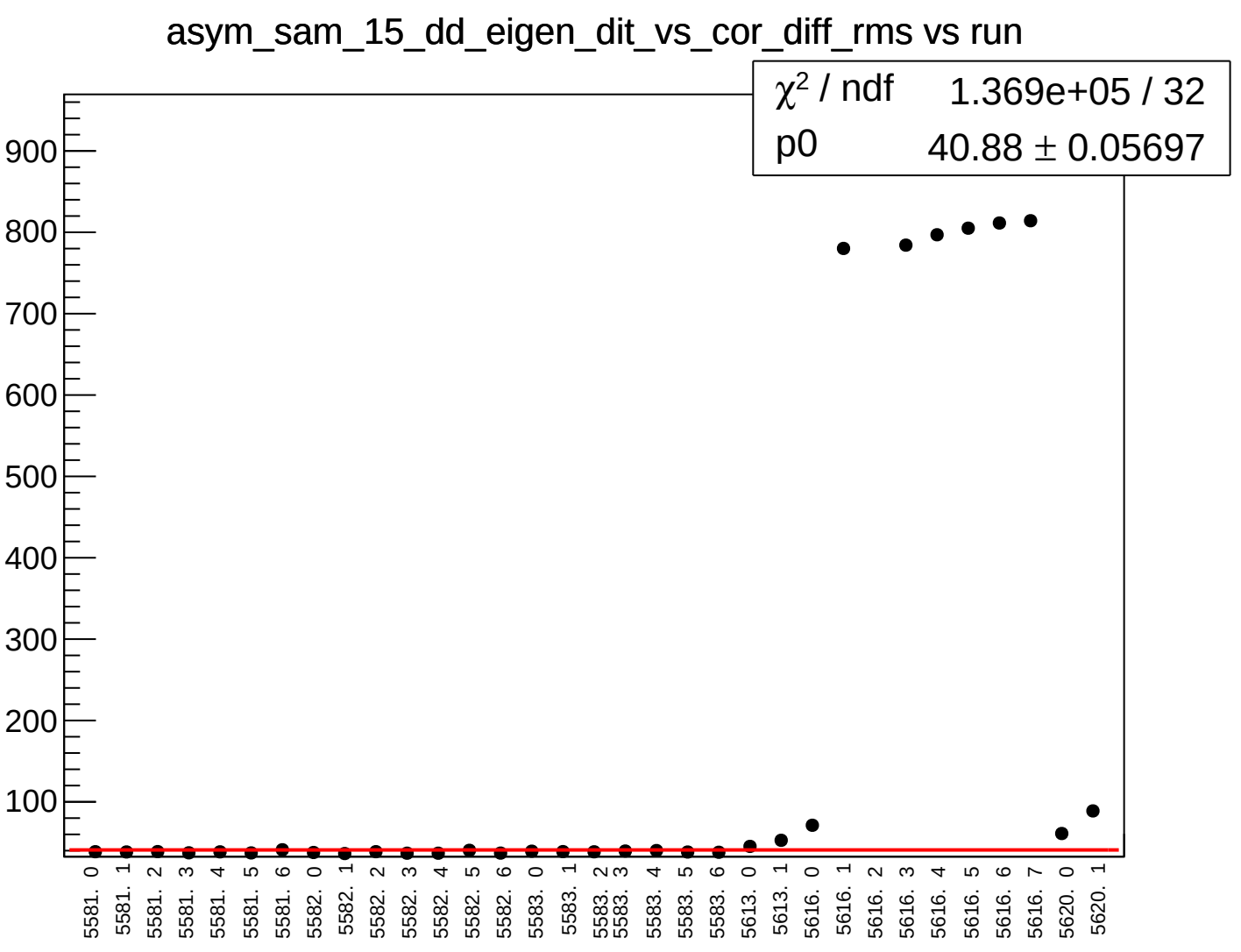

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.369e+05 / 32
p0 40.88 ± 0.05697
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

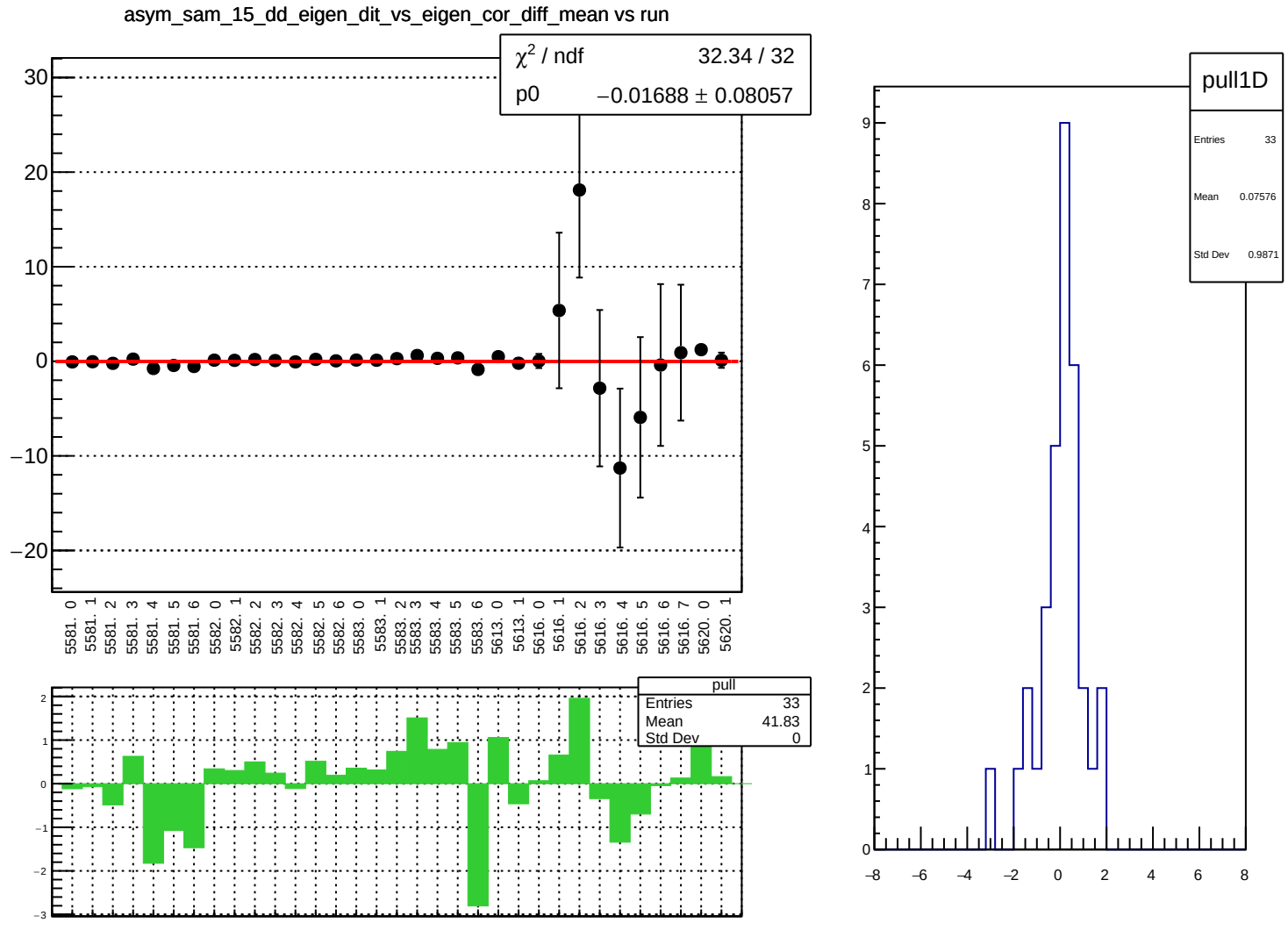

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 29.71 / 32
p0 −6.84e−07 ± 1.914e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 115
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.02266
Std Dev 0.9485
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

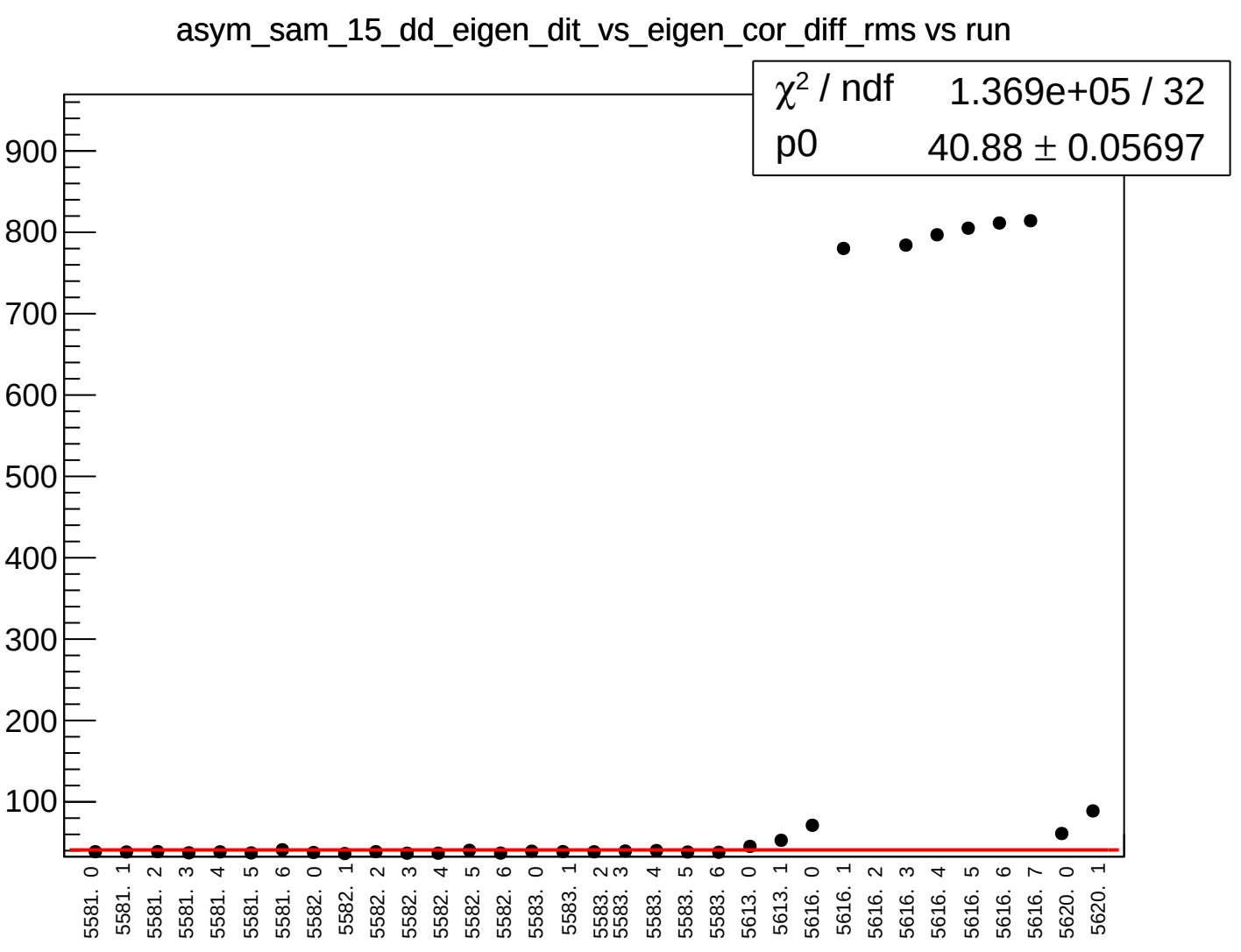

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.084e+04 / 32
p0 0.001075 ± 1.353e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

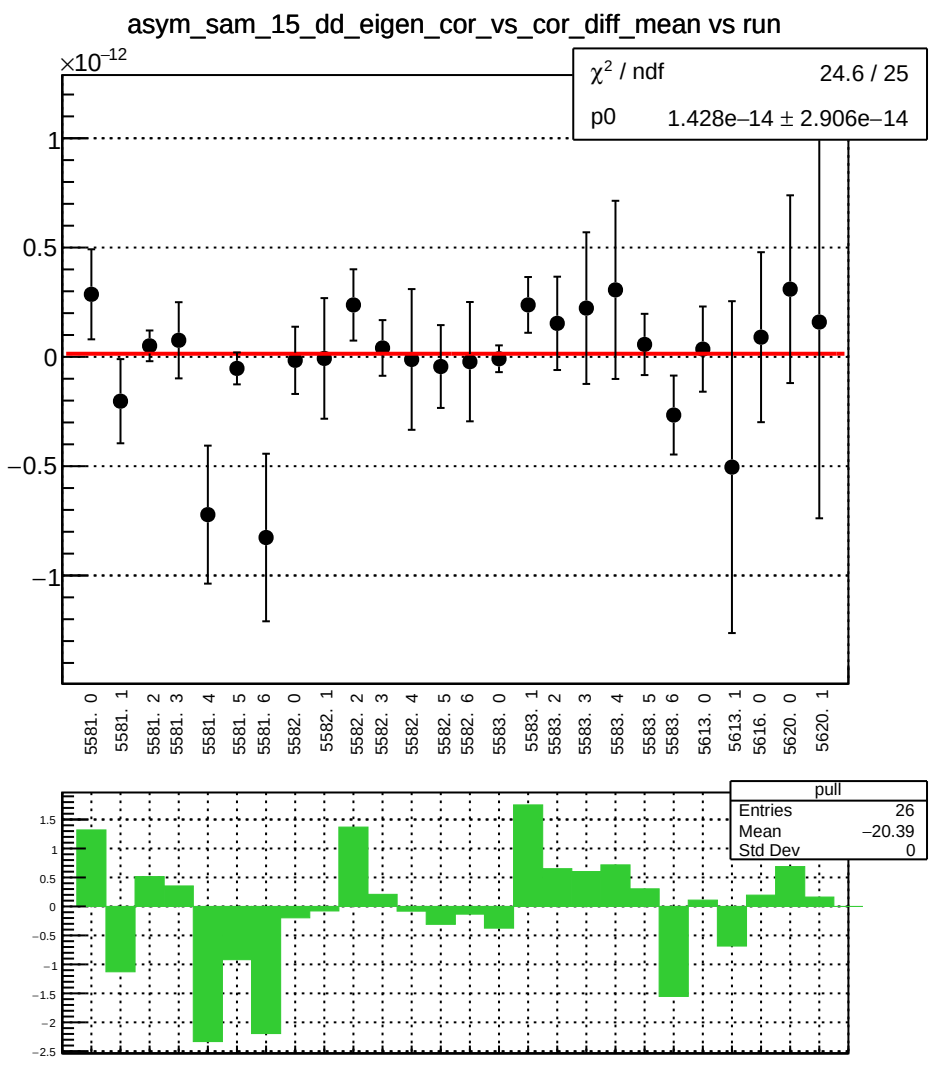

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 32.34 / 32
p0 −0.01688 ± 0.08057
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 41.83
Std Dev 0
2
1
0
−1
−2
−3

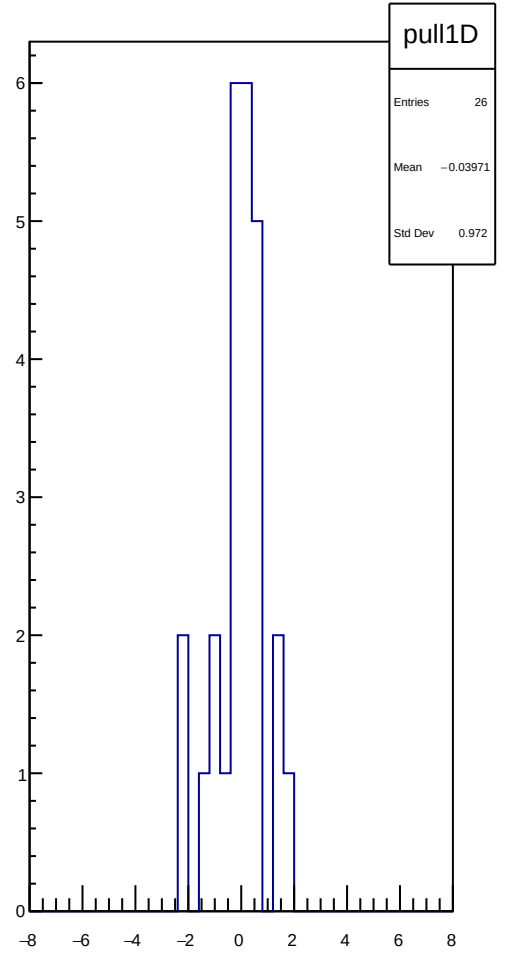

pull1D
Entries 33
Mean 0.07576
Std Dev 0.9871
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

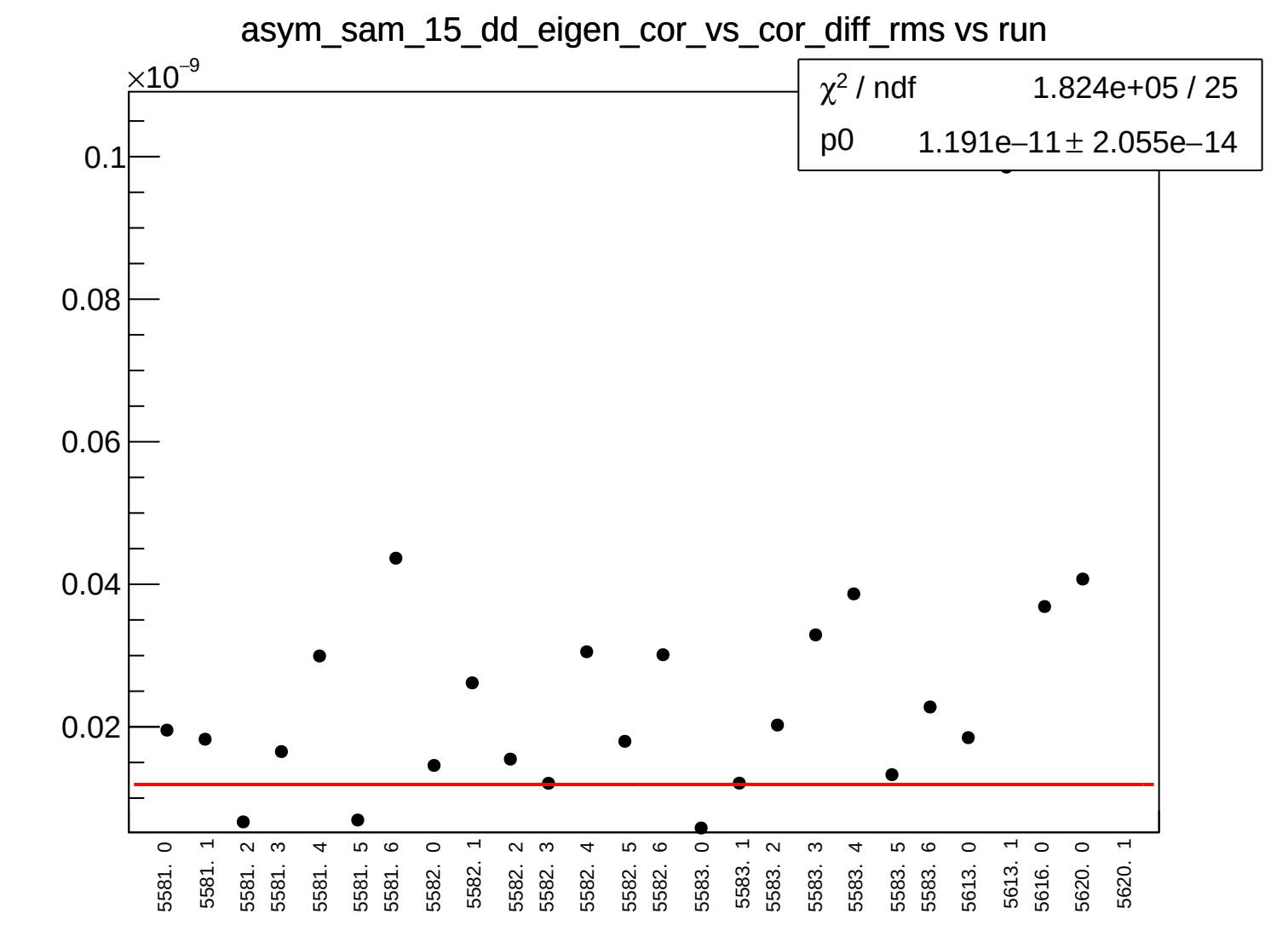

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.369e+05 / 32
p0 40.88 ± 0.05697
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

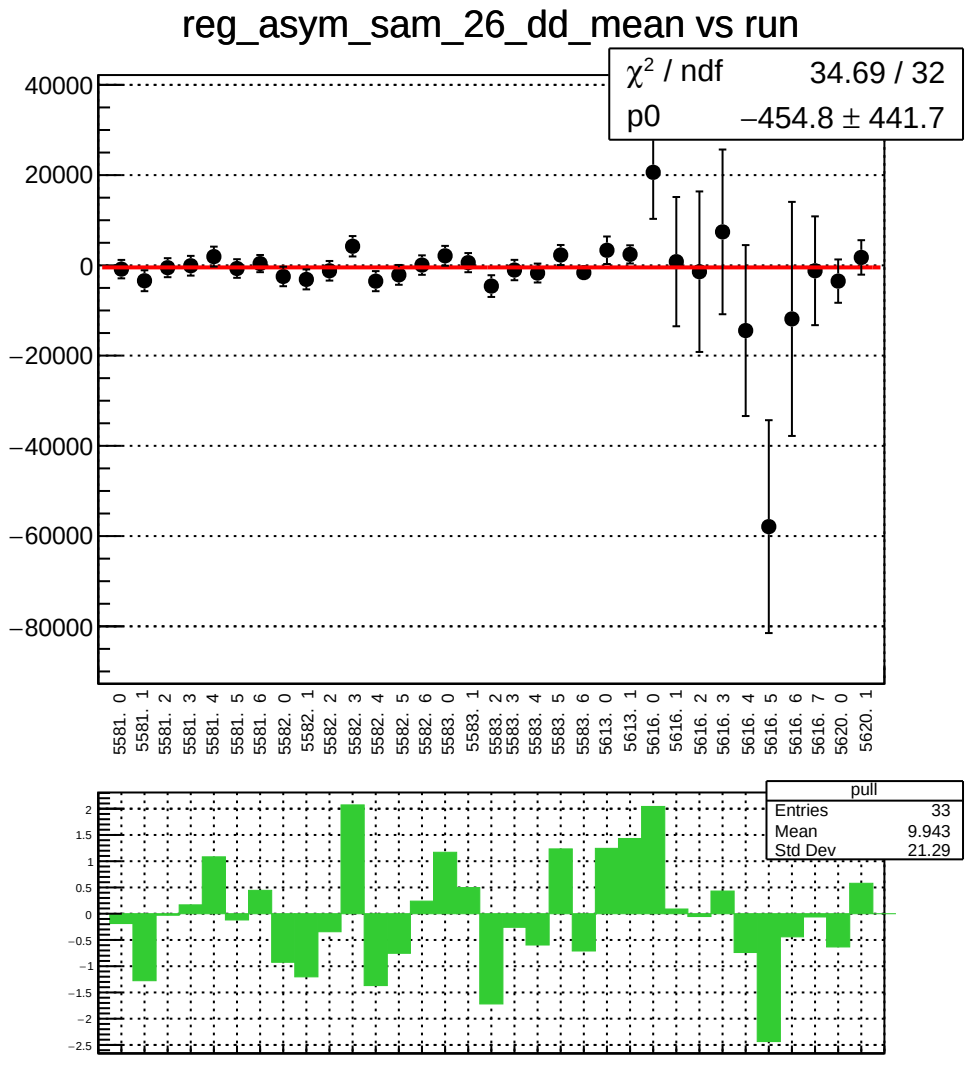

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 32.34 / 32
p0 −0.01688 ± 0.08057
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 41.83
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.07576
Std Dev 0.9871
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

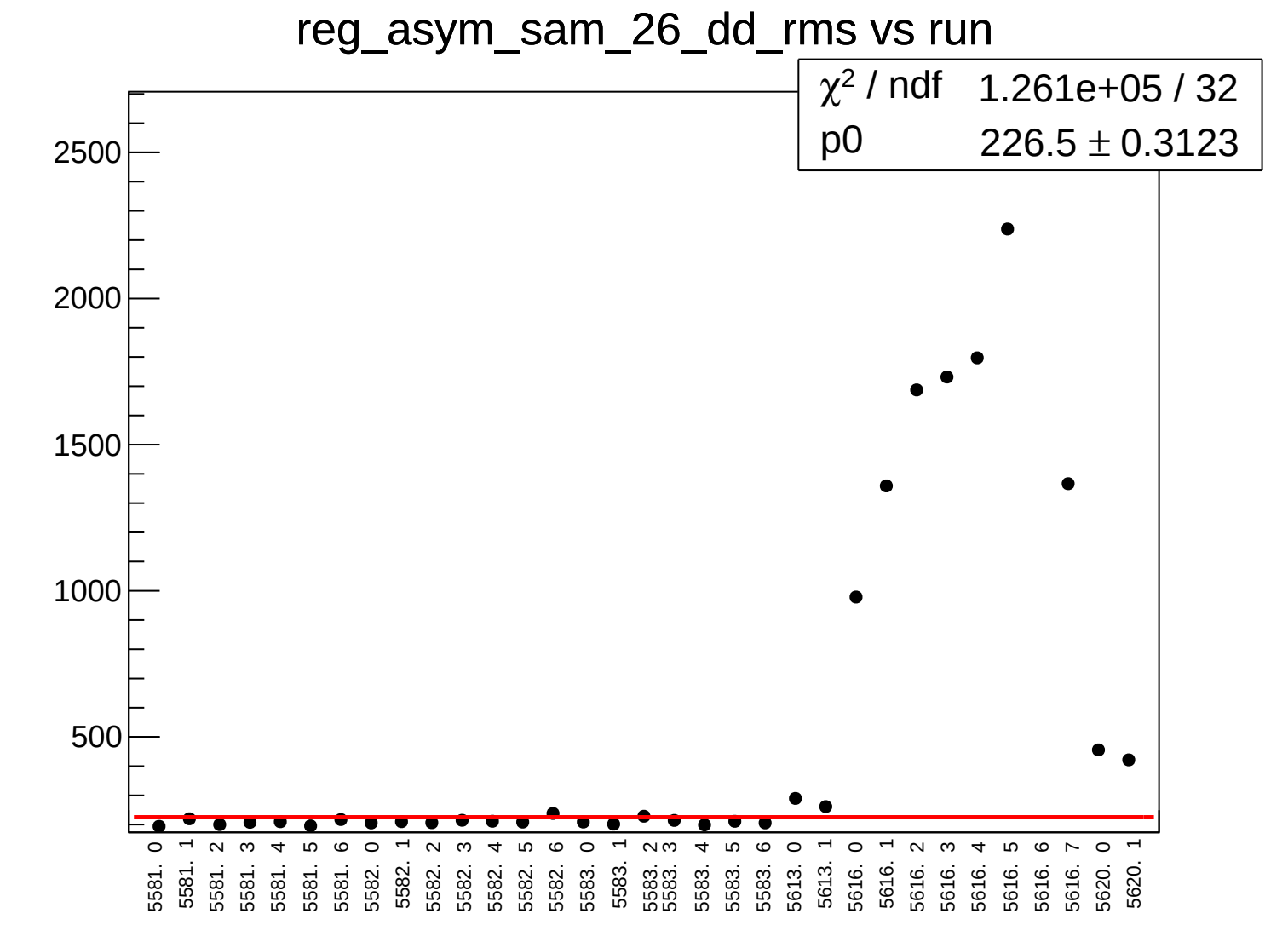

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.369e+05 / 32
p0 40.88 ± 0.05697
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

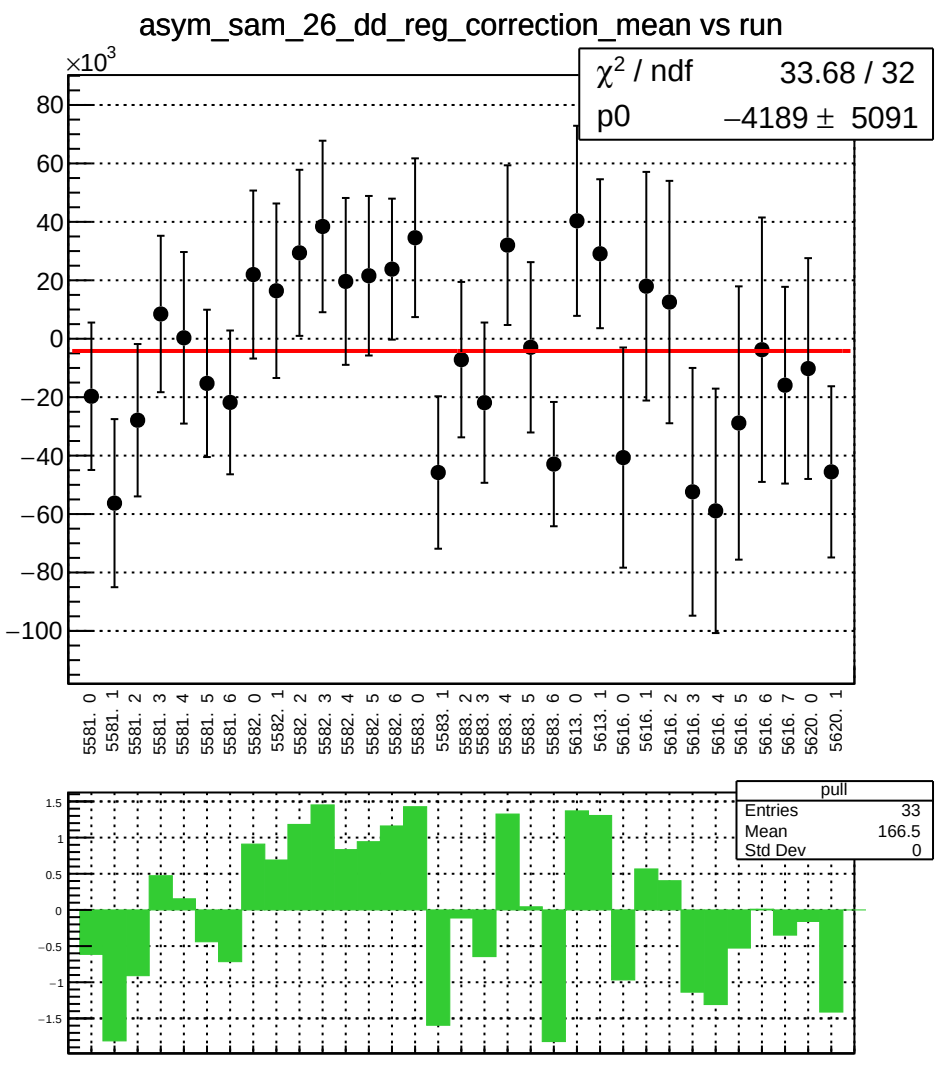

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 24.6 / 25
p0 1.428e−14 ± 2.906e−14
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −20.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

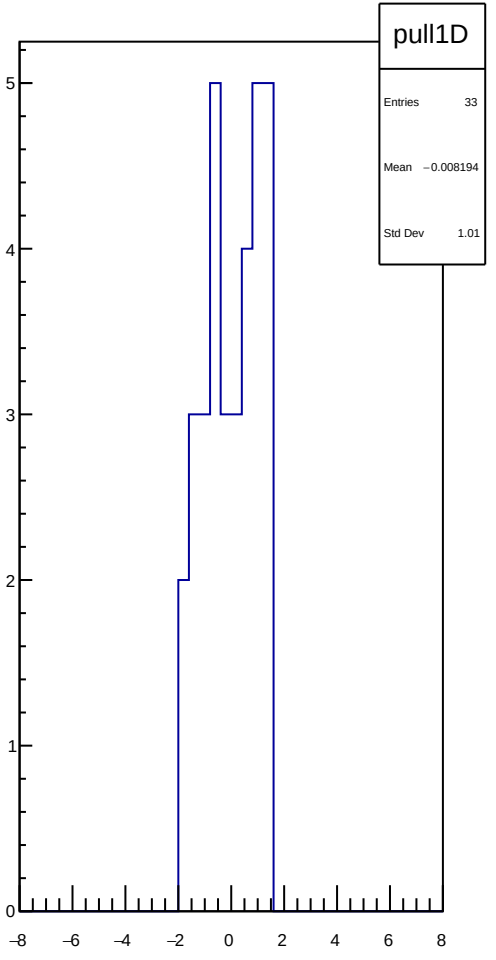

pull1D
Entries 26
Mean −0.03971
Std Dev 0.972
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

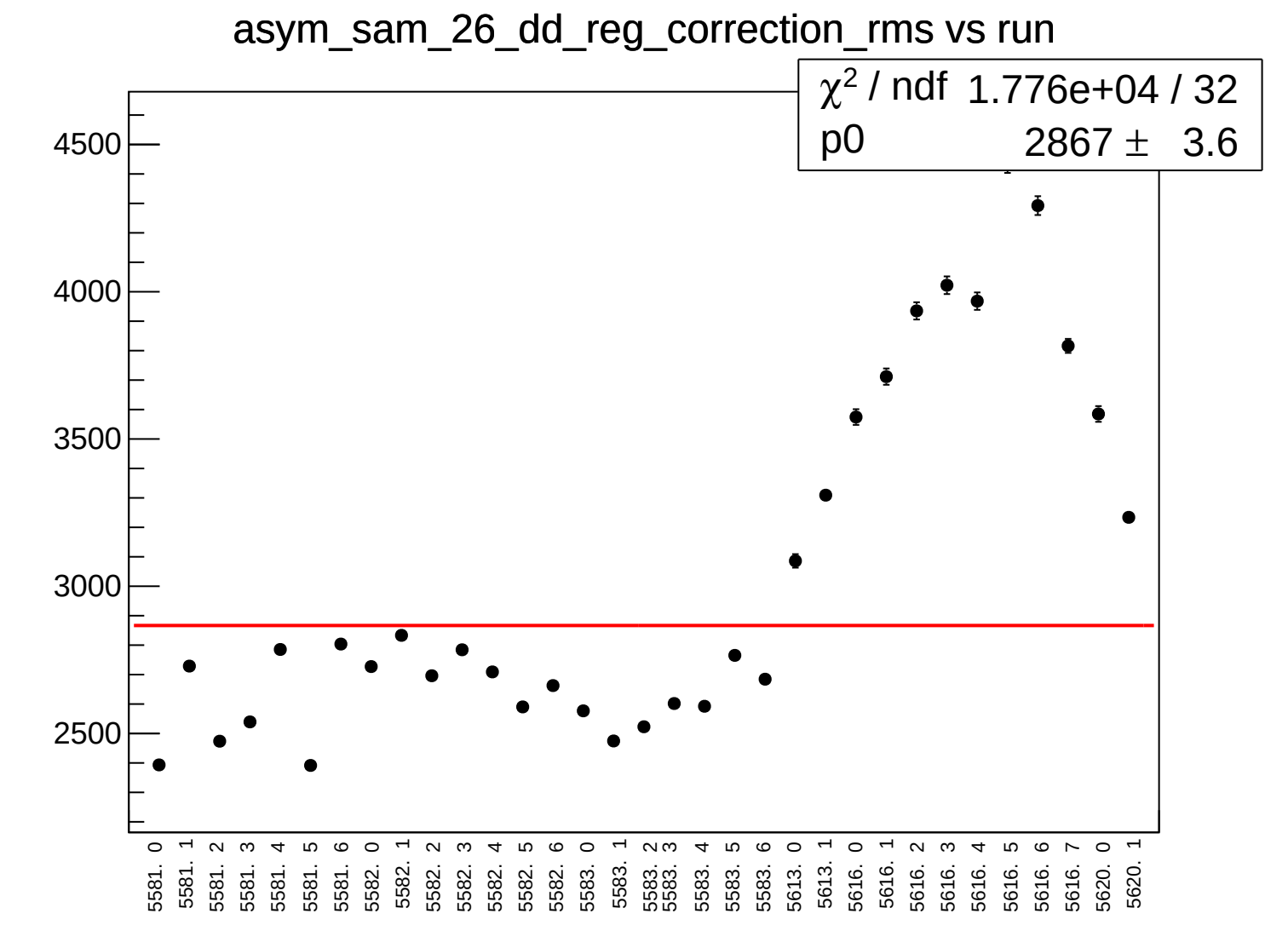

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.824e+05 / 25
p0 1.191e−11 ± 2.055e−14
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

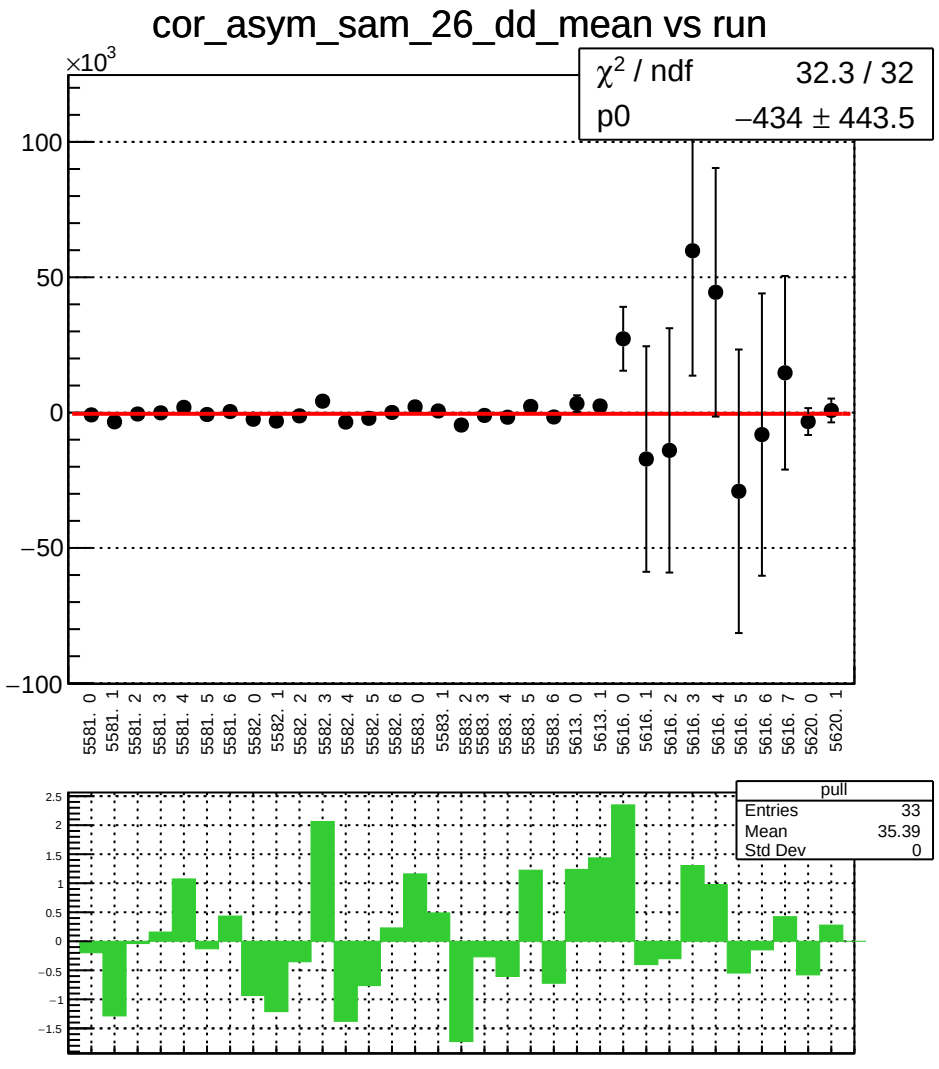

reg_asym_sam_26_dd_mean vs run
χ² / ndf 34.69 / 32
p0 −454.8 ± 441.7
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 9.943
Std Dev 21.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.03393
Std Dev 1.025
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

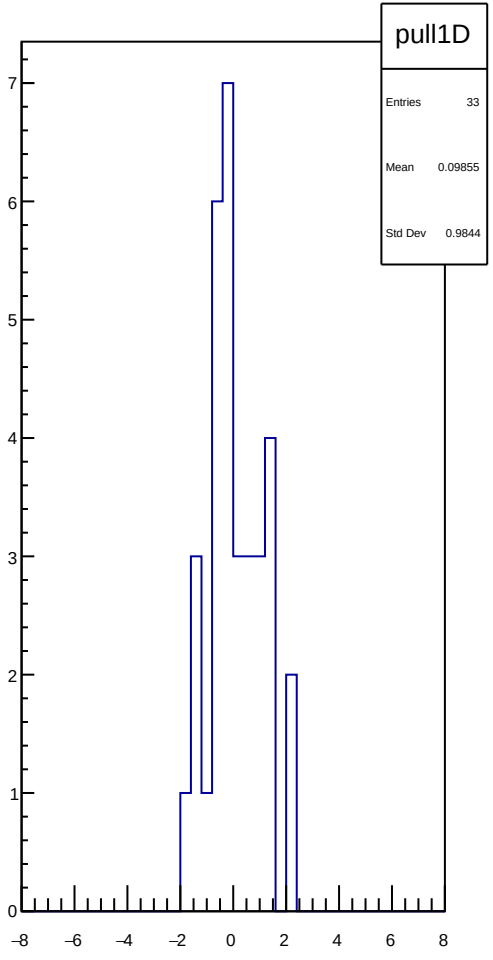

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1.261e+05 / 32
p0 226.5 ± 0.3123
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

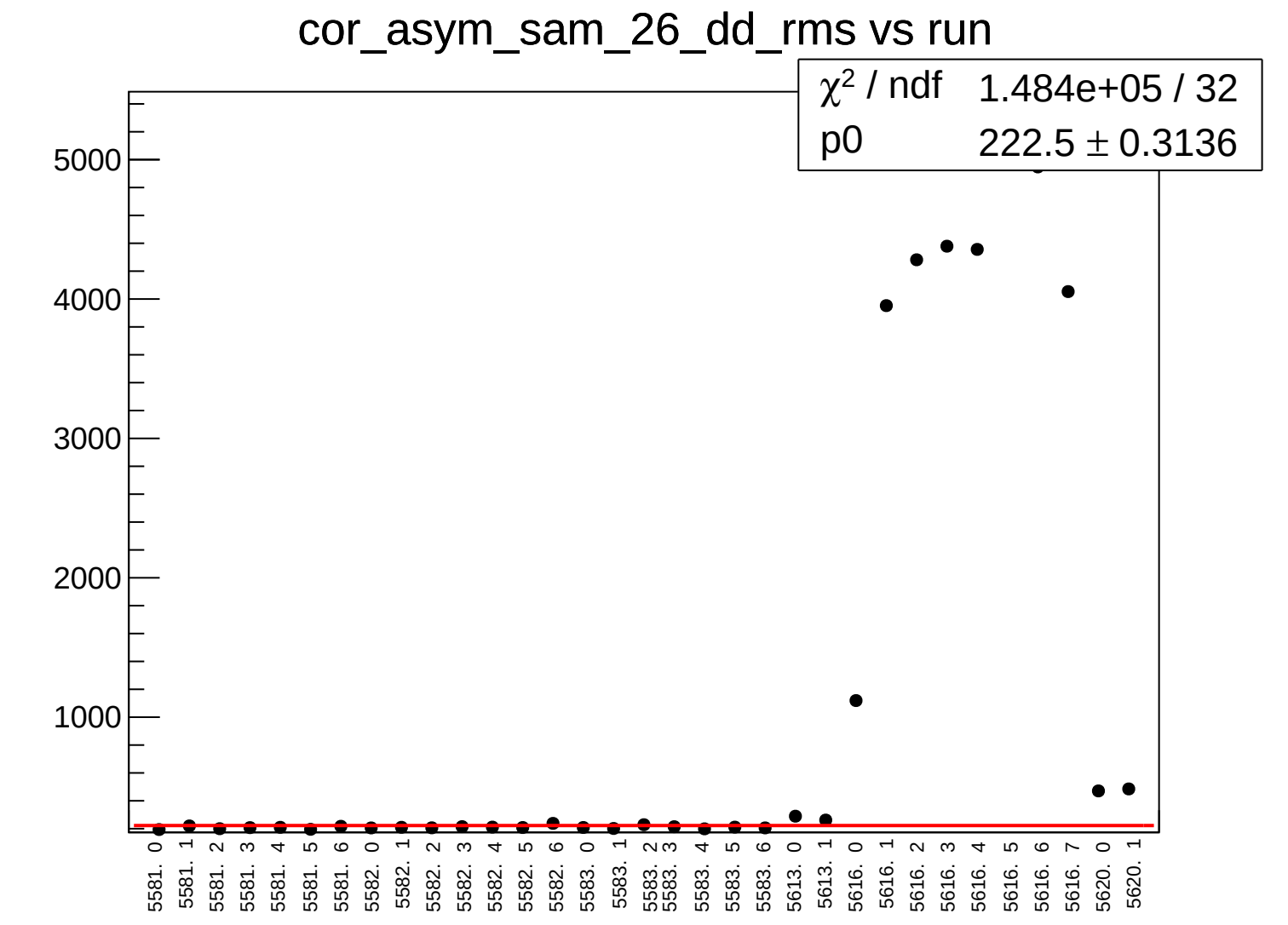

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 33.68 / 32
p0 −4189 ± 5091
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 166.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

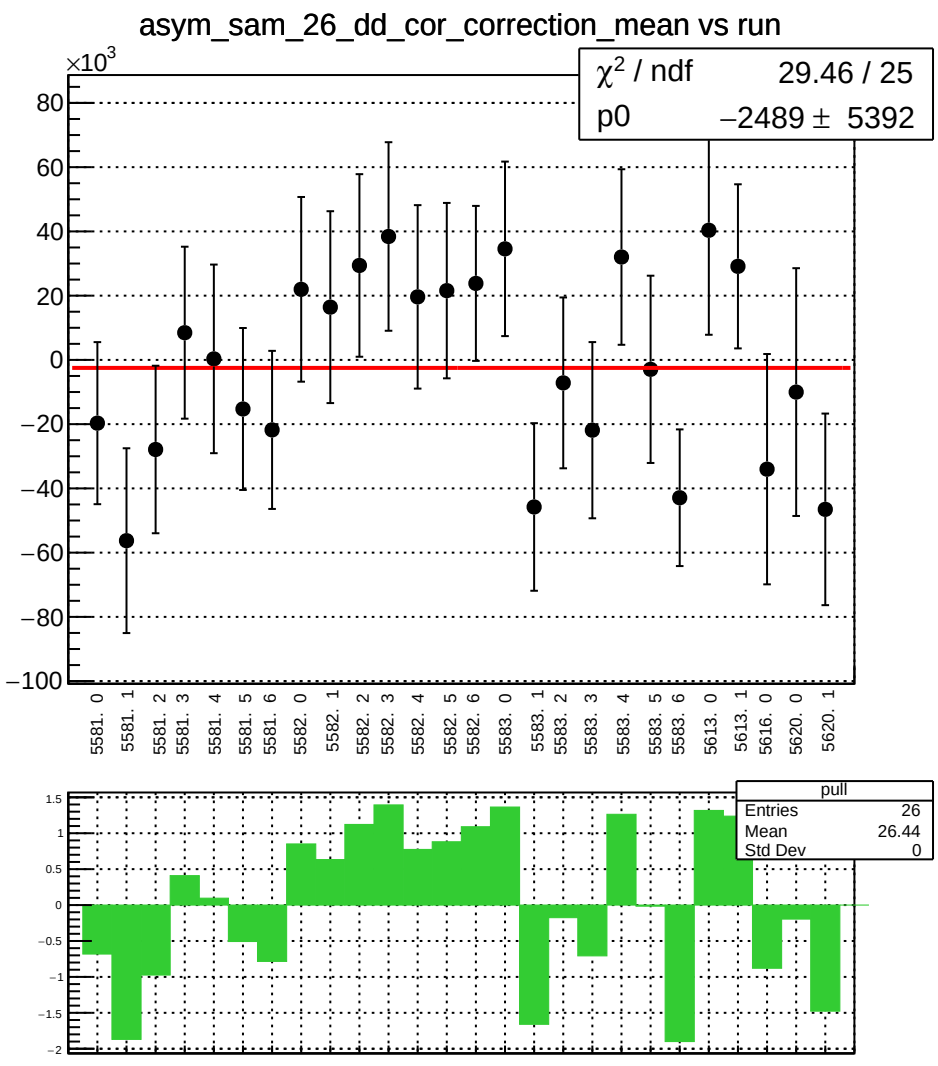

pull1D
Entries 33
Mean −0.008194
Std Dev 1.01
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

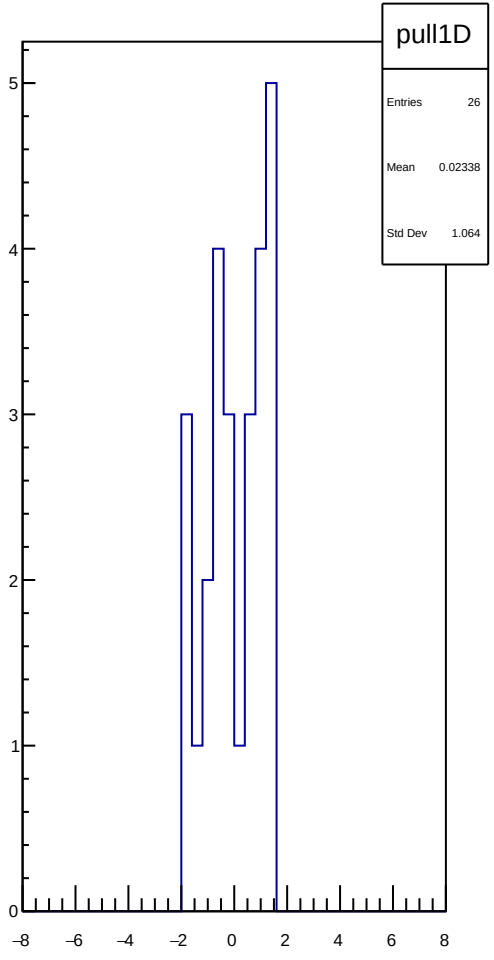

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 1.776e+04 / 32
p0 2867 ± 3.6
4500
4000
3500
3000
2500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

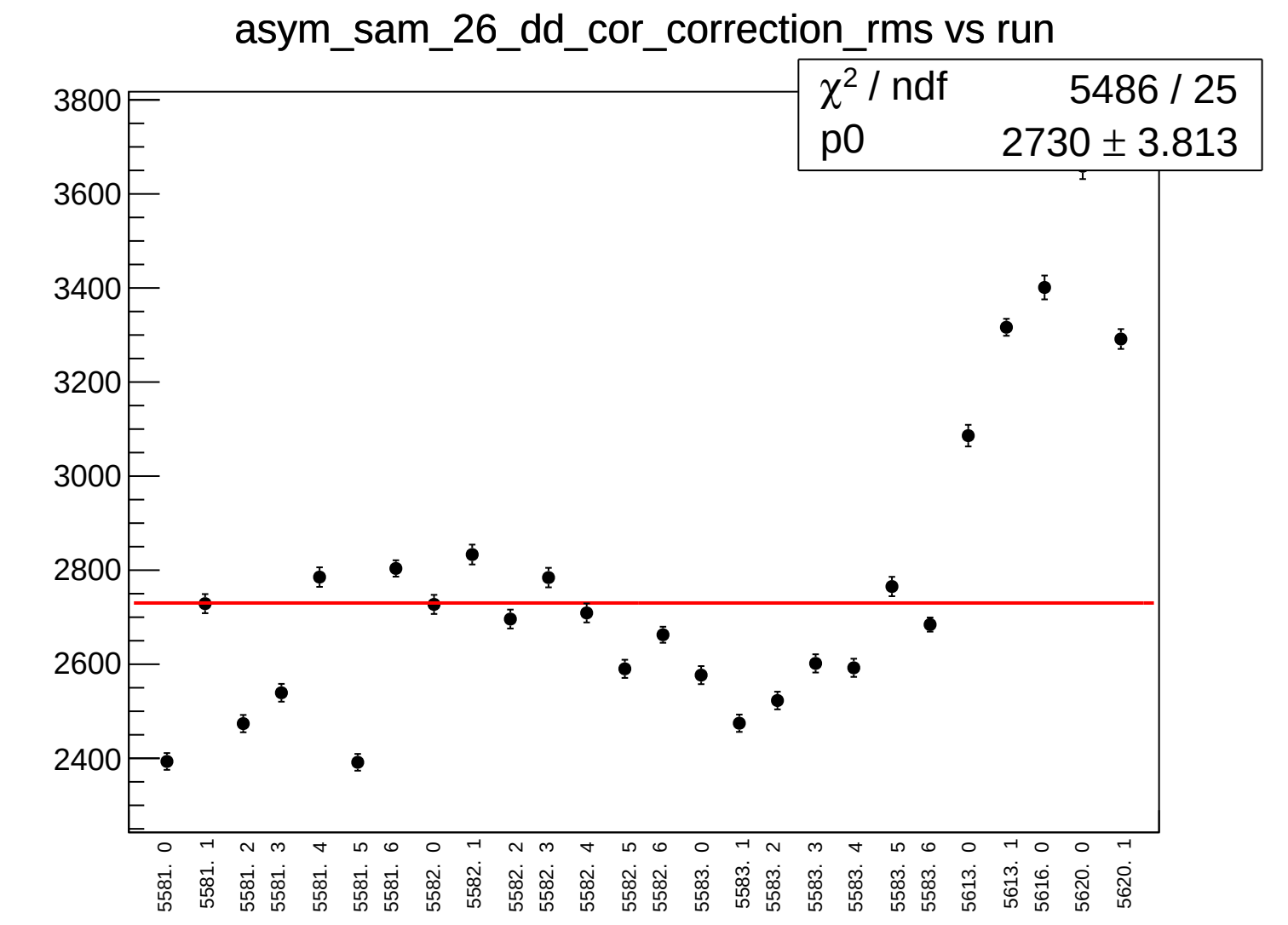

cor_asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 32.3 / 32
p0 −434 ± 443.5
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.39
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

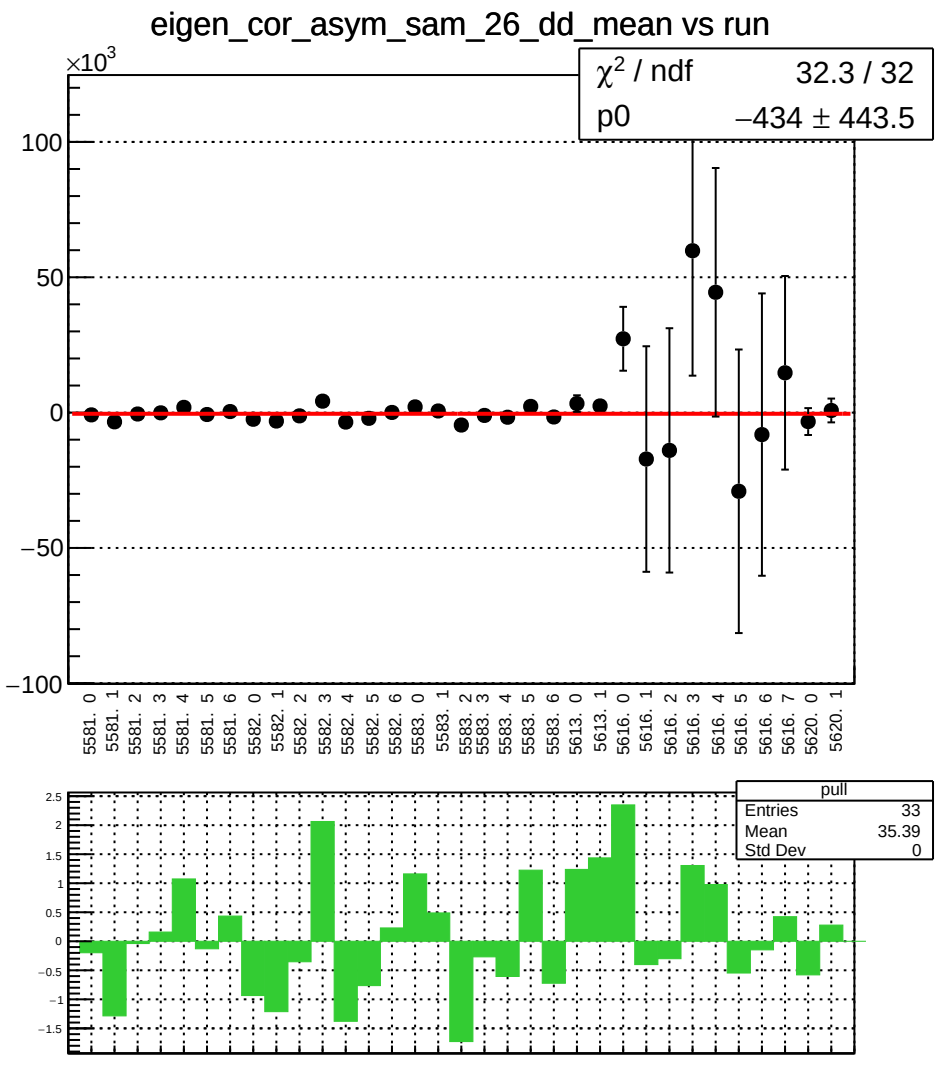

pull1D
Entries 33
Mean 0.09855
Std Dev 0.9844
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

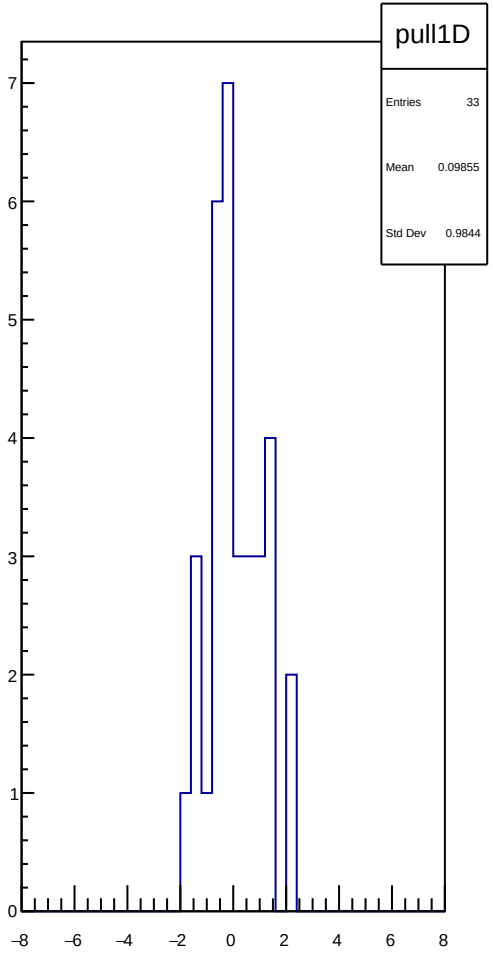

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1.484e+05 / 32
p0 222.5 ± 0.3136
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

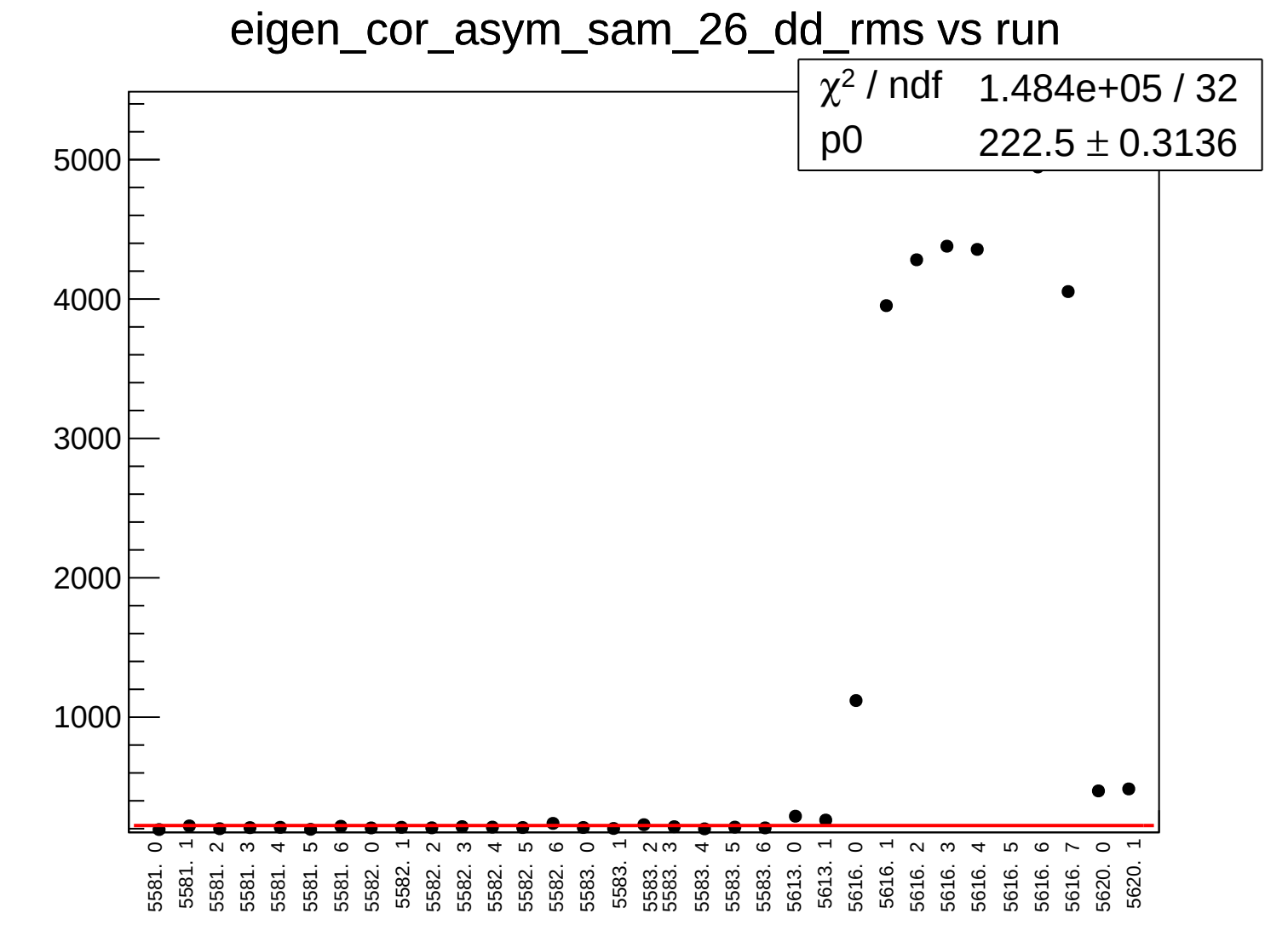

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 29.46 / 25
p0 −2489 ± 5392
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 26.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

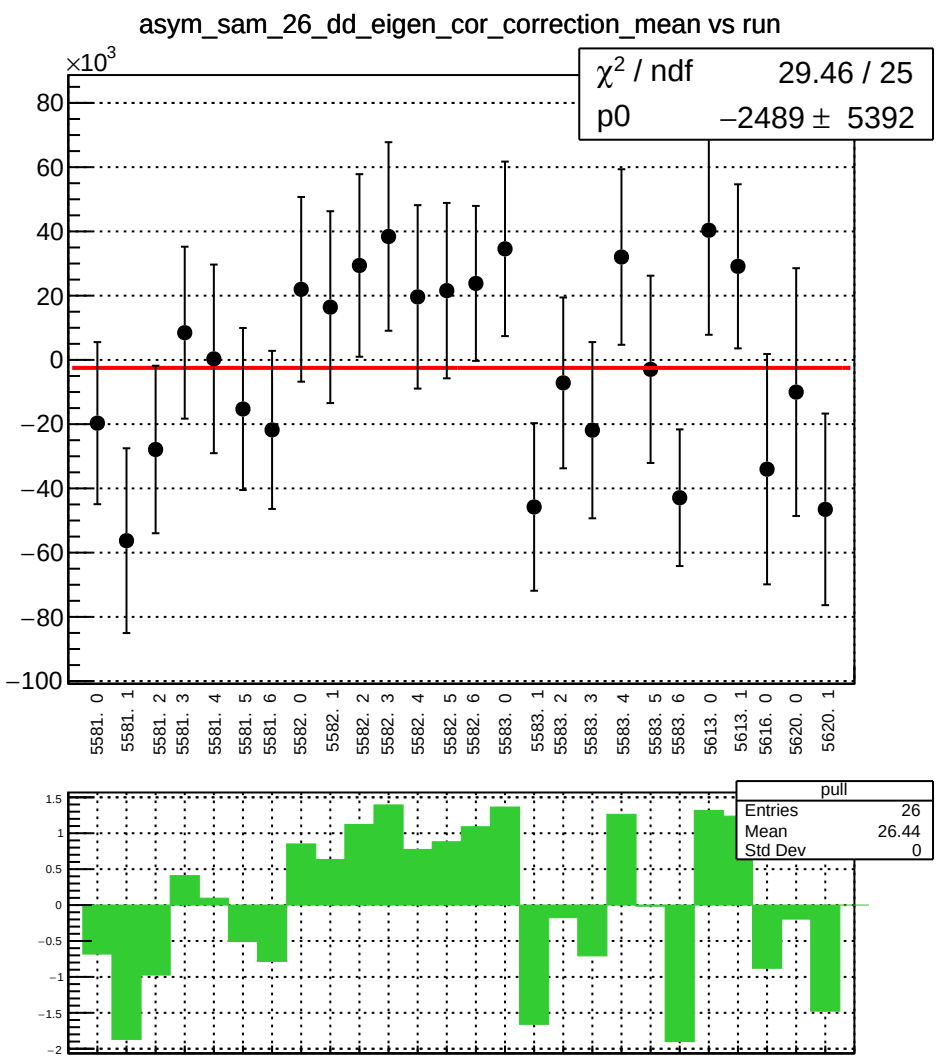

pull1D
Entries 26
Mean 0.02338
Std Dev 1.064
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

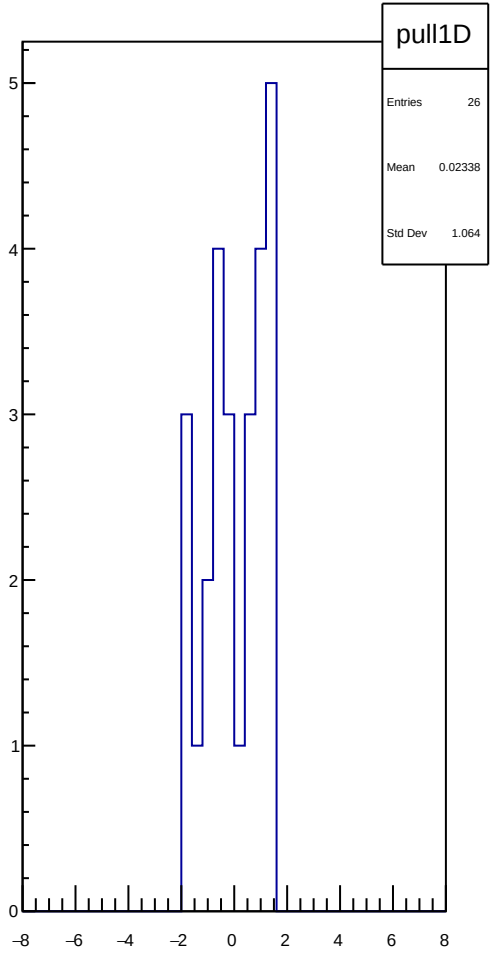

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 5486 / 25
p0 2730 ± 3.813
3800
3600
3400
3200
3000
2800
2600
2400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

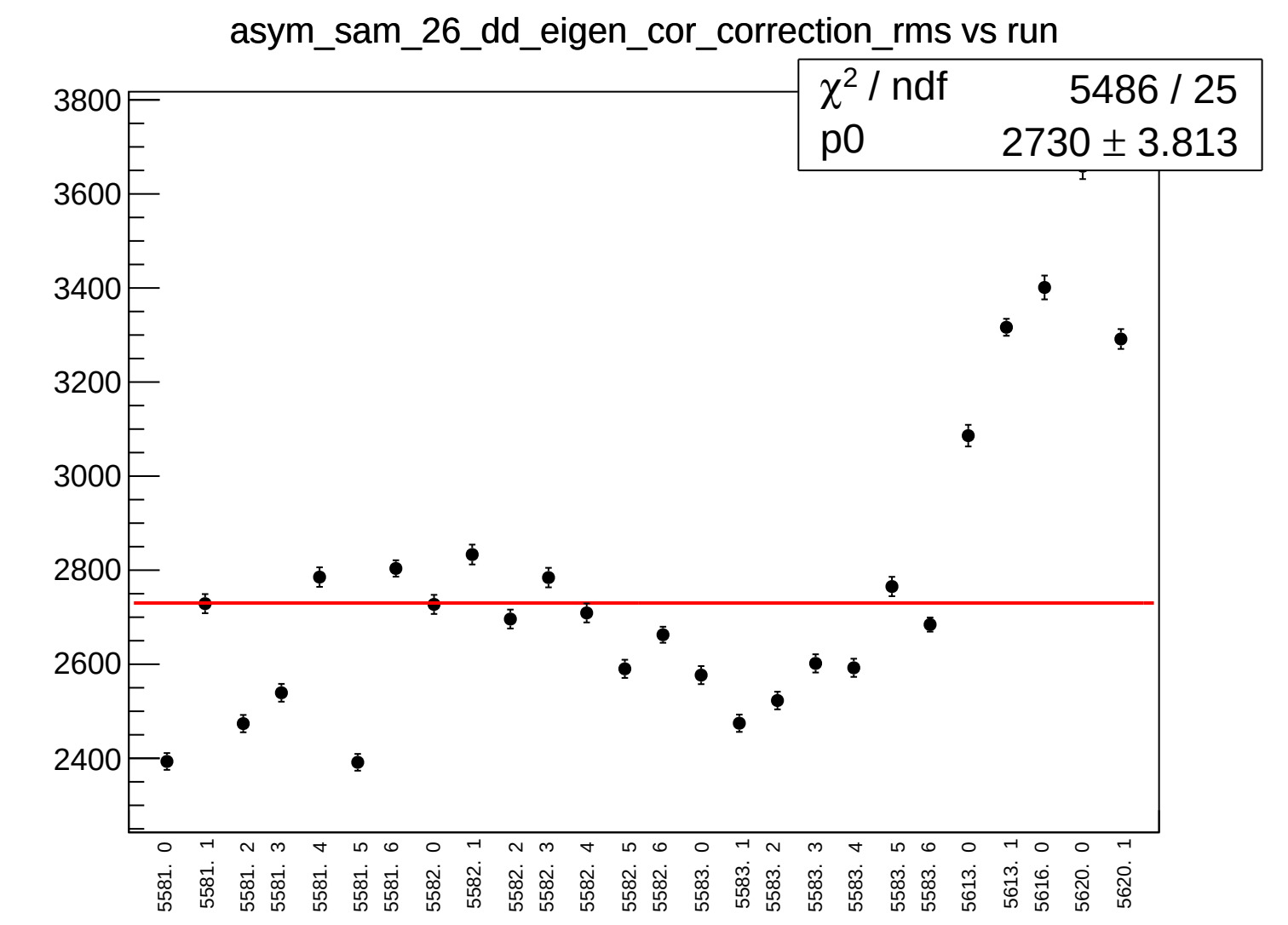

eigen_cor_asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 32.3 / 32
p0 −434 ± 443.5
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.39
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

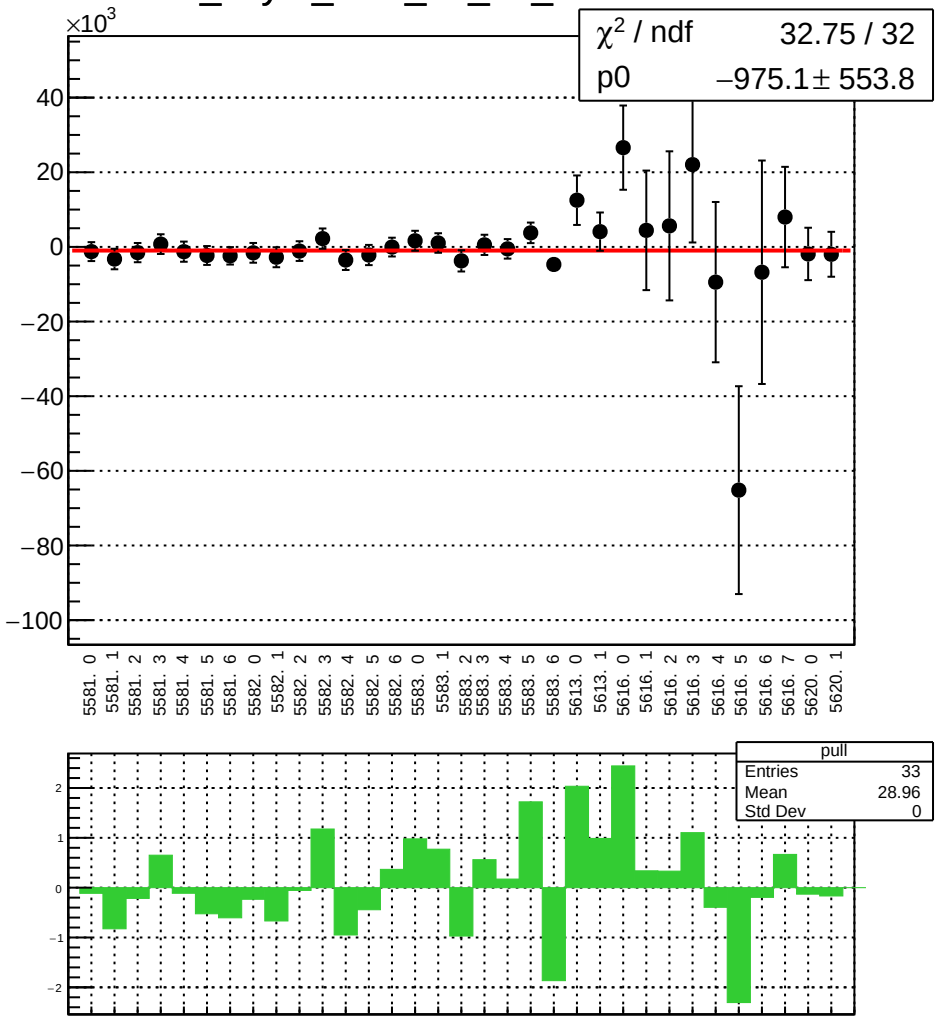

pull1D
Entries 33
Mean 0.09855
Std Dev 0.9844
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

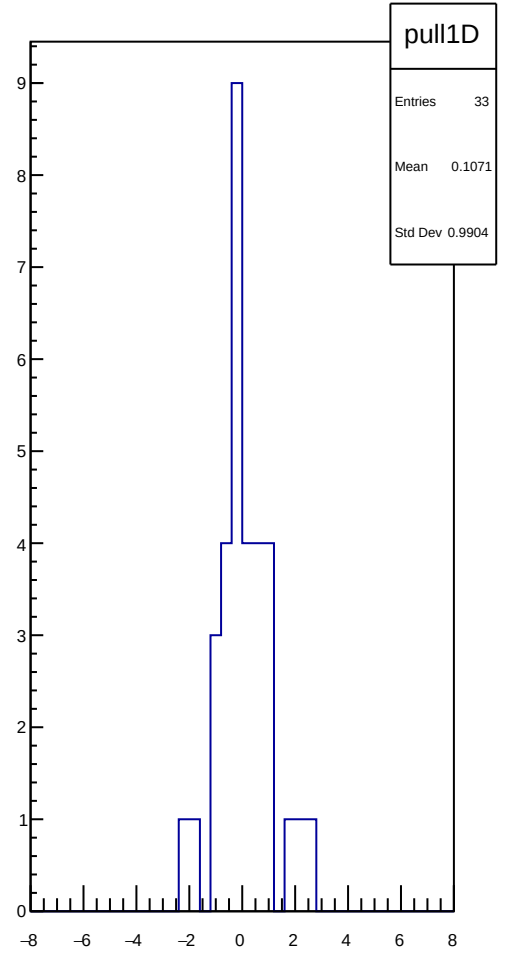

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1.484e+05 / 32
p0 222.5 ± 0.3136
5000
4000
3000
2000
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

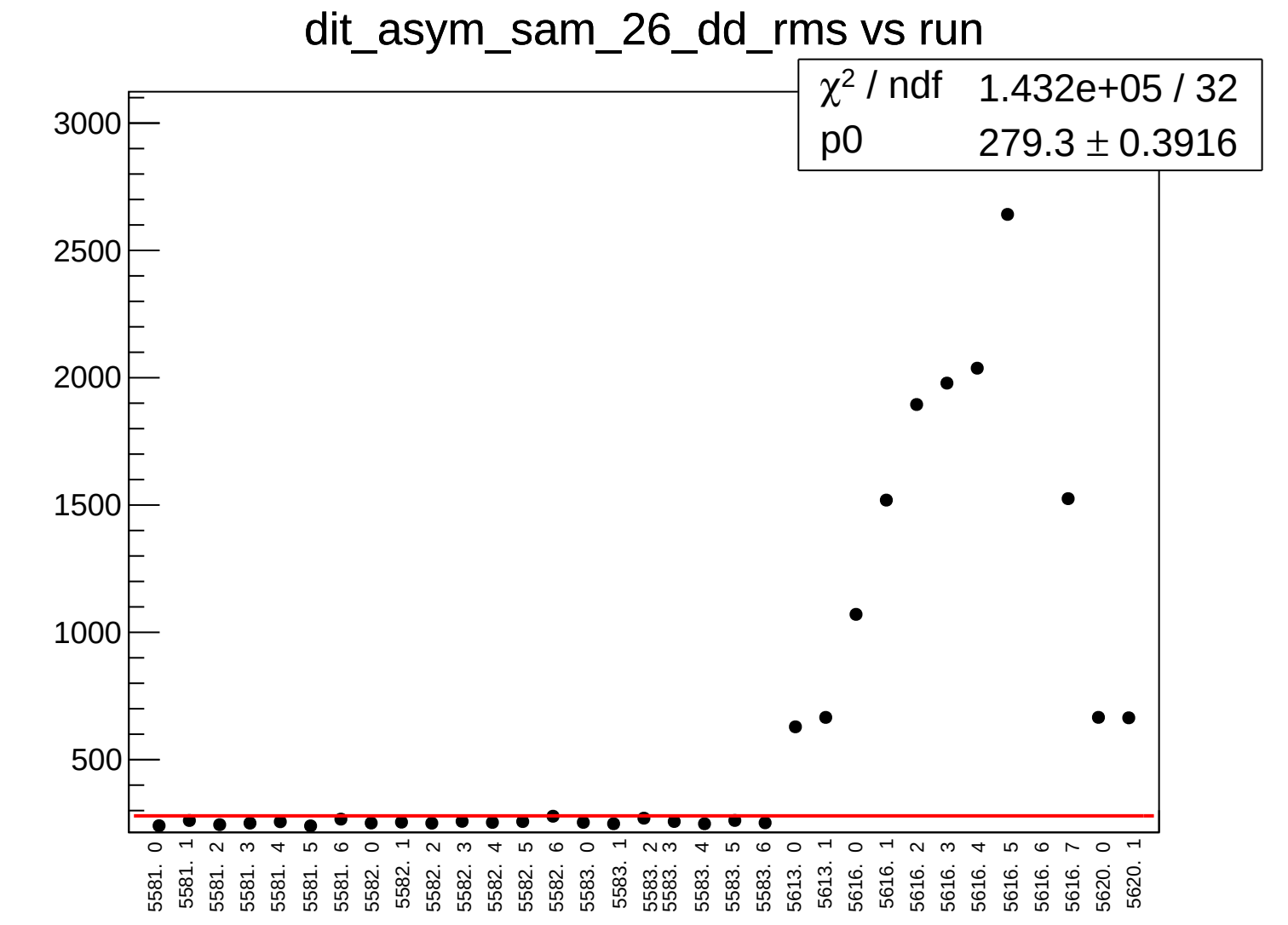

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 29.46 / 25
p0 −2489 ± 5392
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 26.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

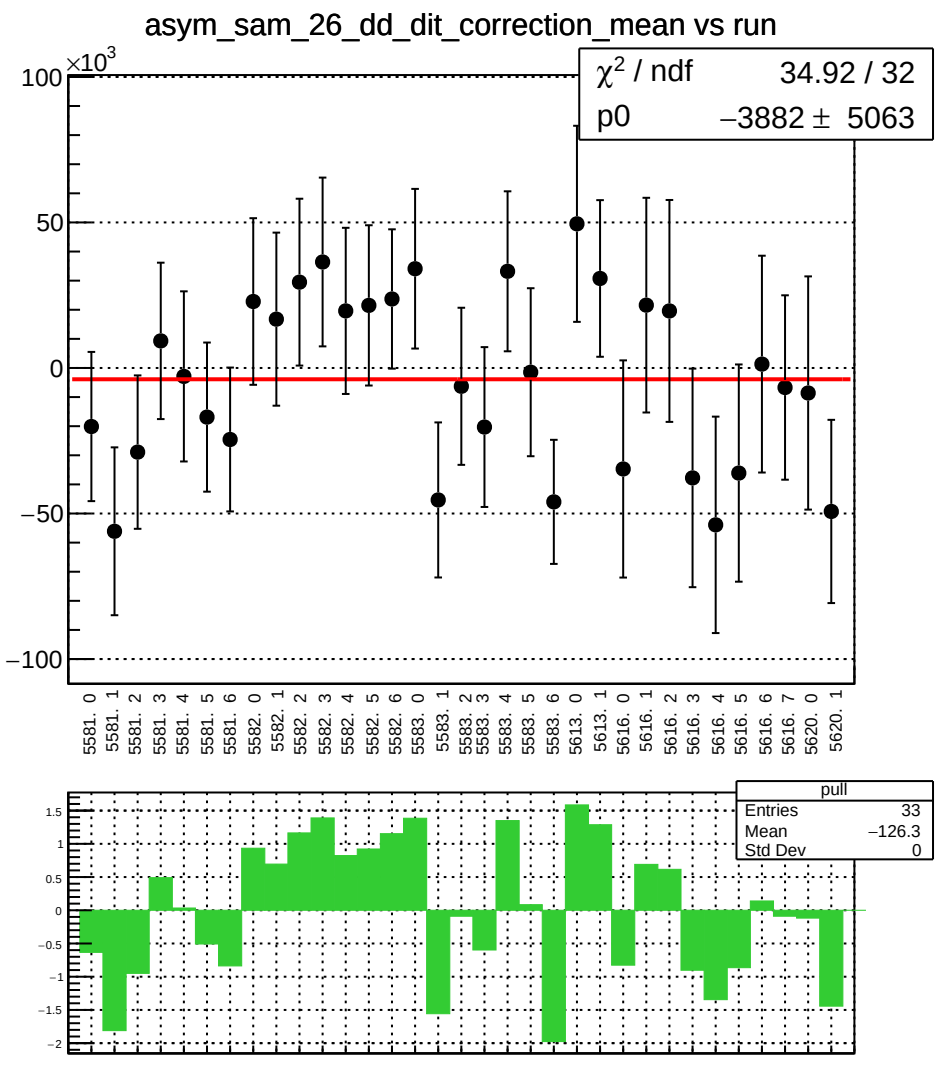

pull1D
Entries 26
Mean 0.02338
Std Dev 1.064
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

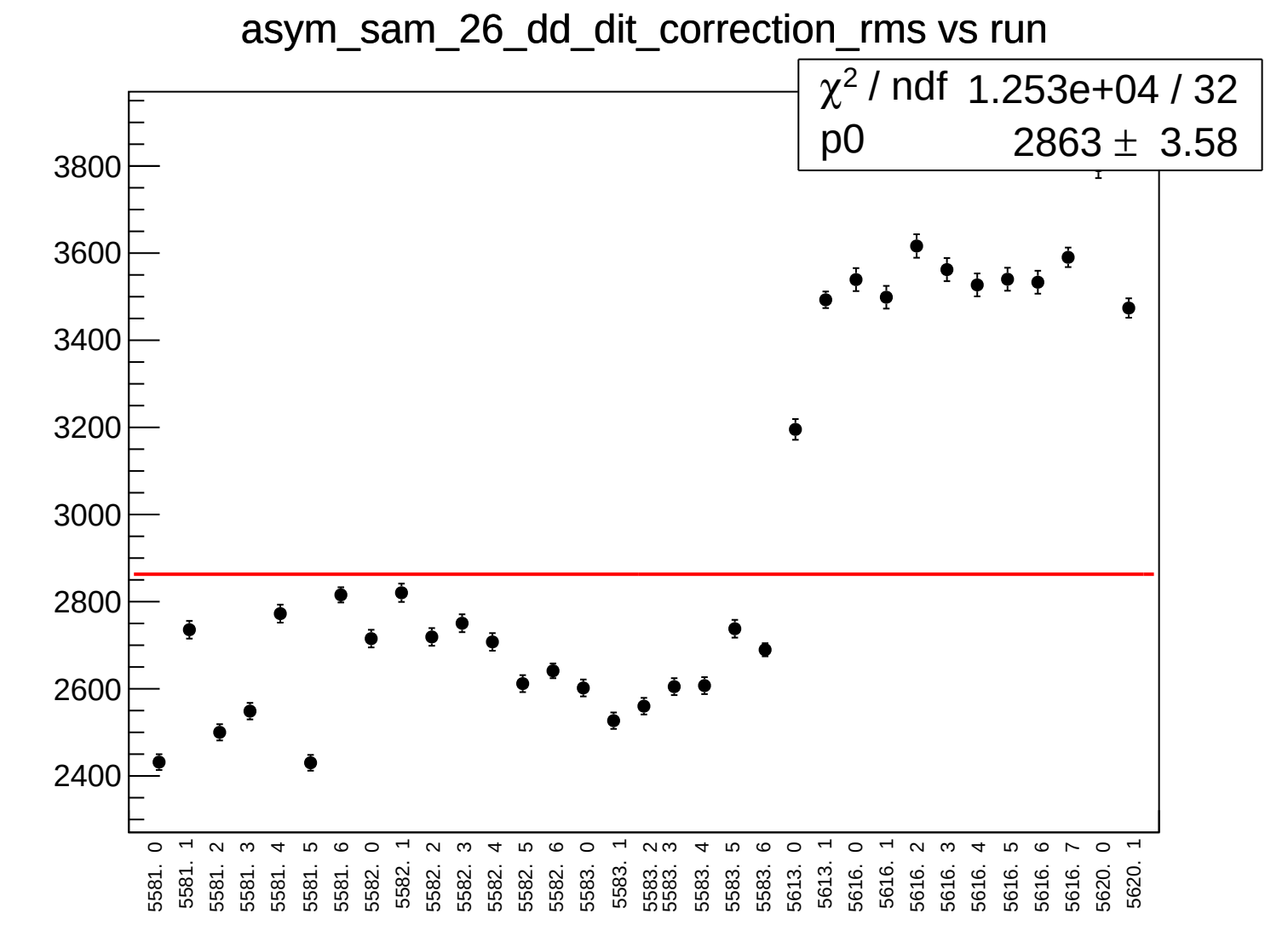

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5486 / 25
p0 2730 ± 3.813
3800
3600
3400
3200
3000
2800
2600
2400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

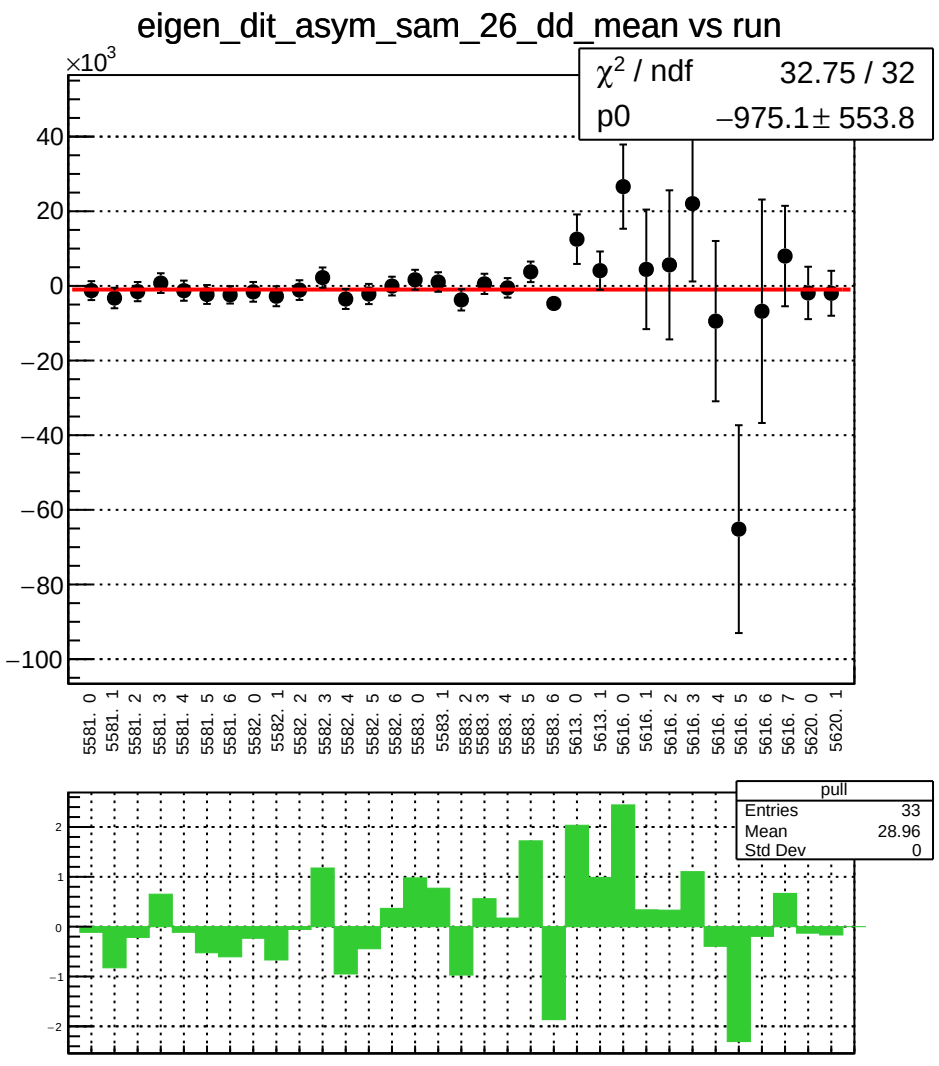

dit_asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 32.75 / 32
p0 −975.1± 553.8
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.96
Std Dev 0
2
1
0
−1
−2

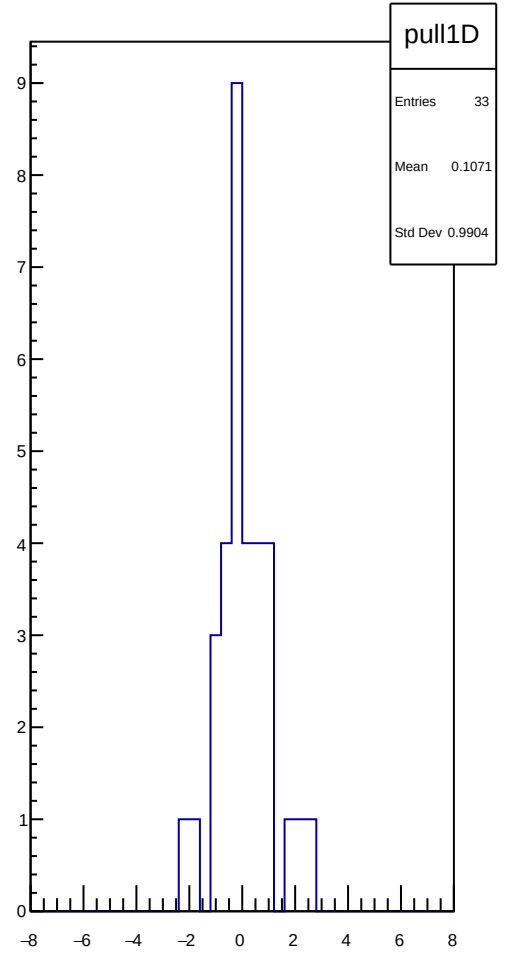

pull1D
Entries 33
Mean 0.1071
Std Dev 0.9904
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

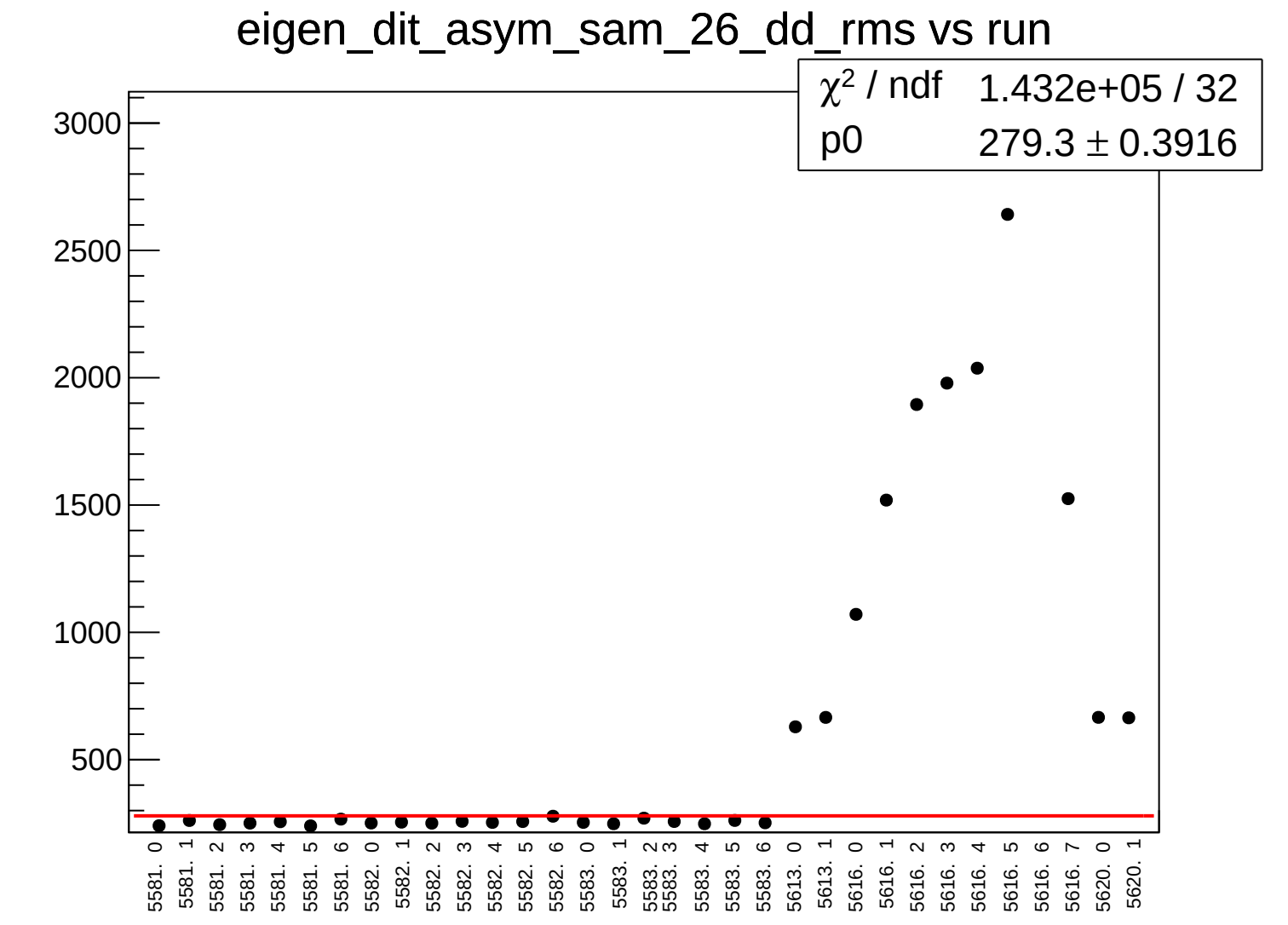

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1.432e+05 / 32
p0 279.3 ± 0.3916
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

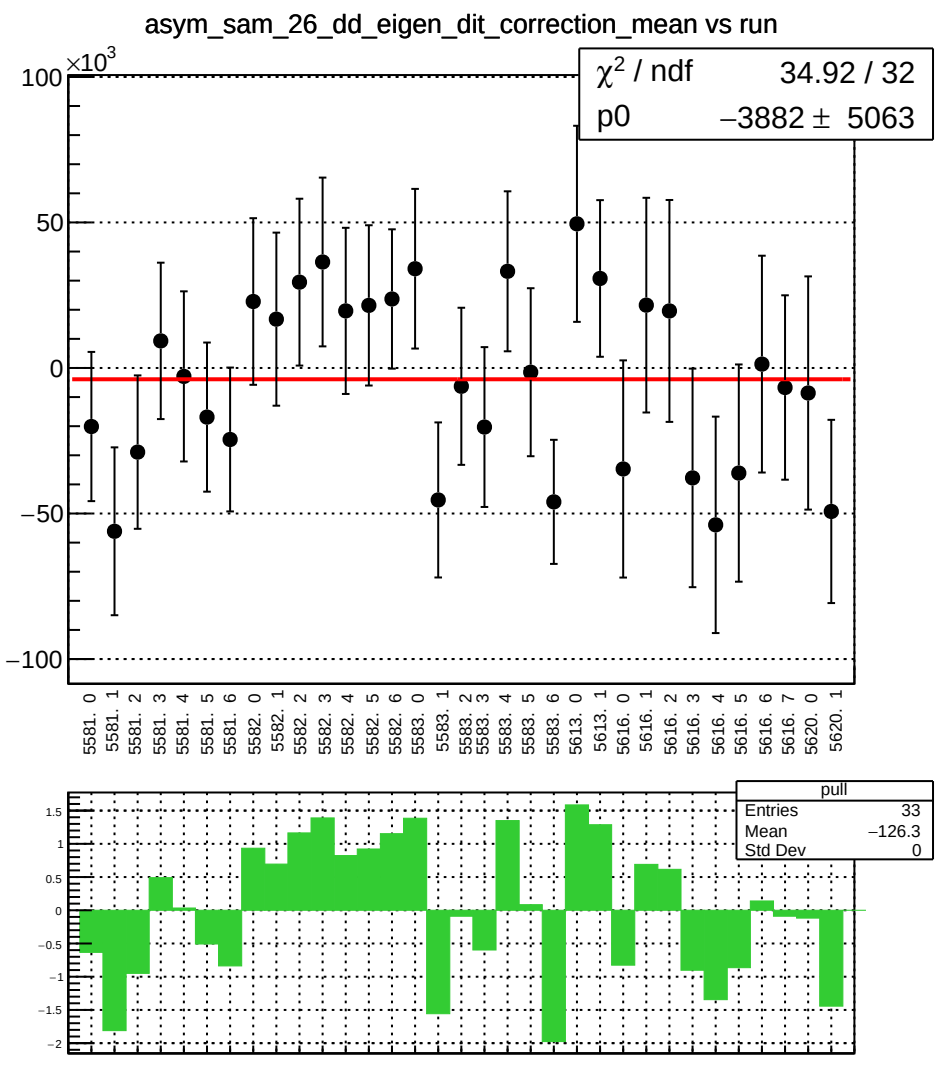

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 34.92 / 32
p0 −3882 ± 5063
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −126.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.005994
Std Dev 1.029
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

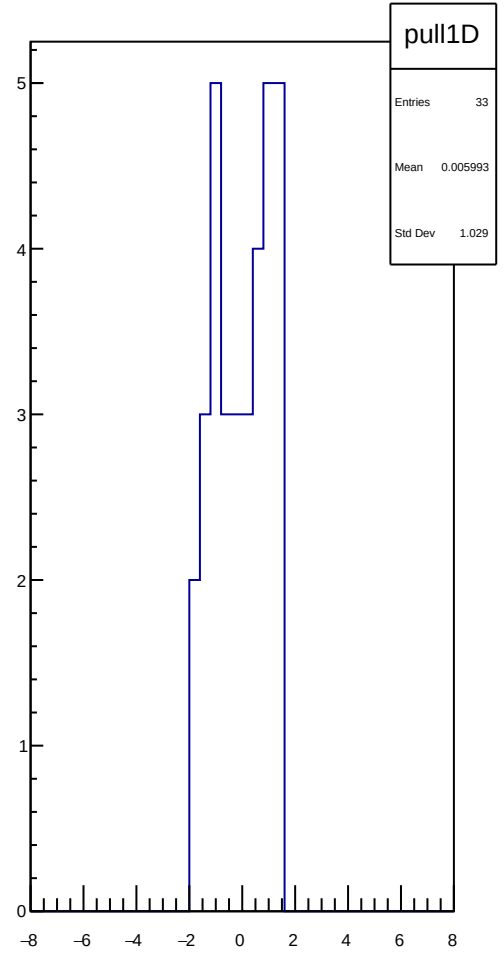

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 1.253e+04 / 32
p0 2863 ± 3.58
3800
3600
3400
3200
3000
2800
2600
2400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

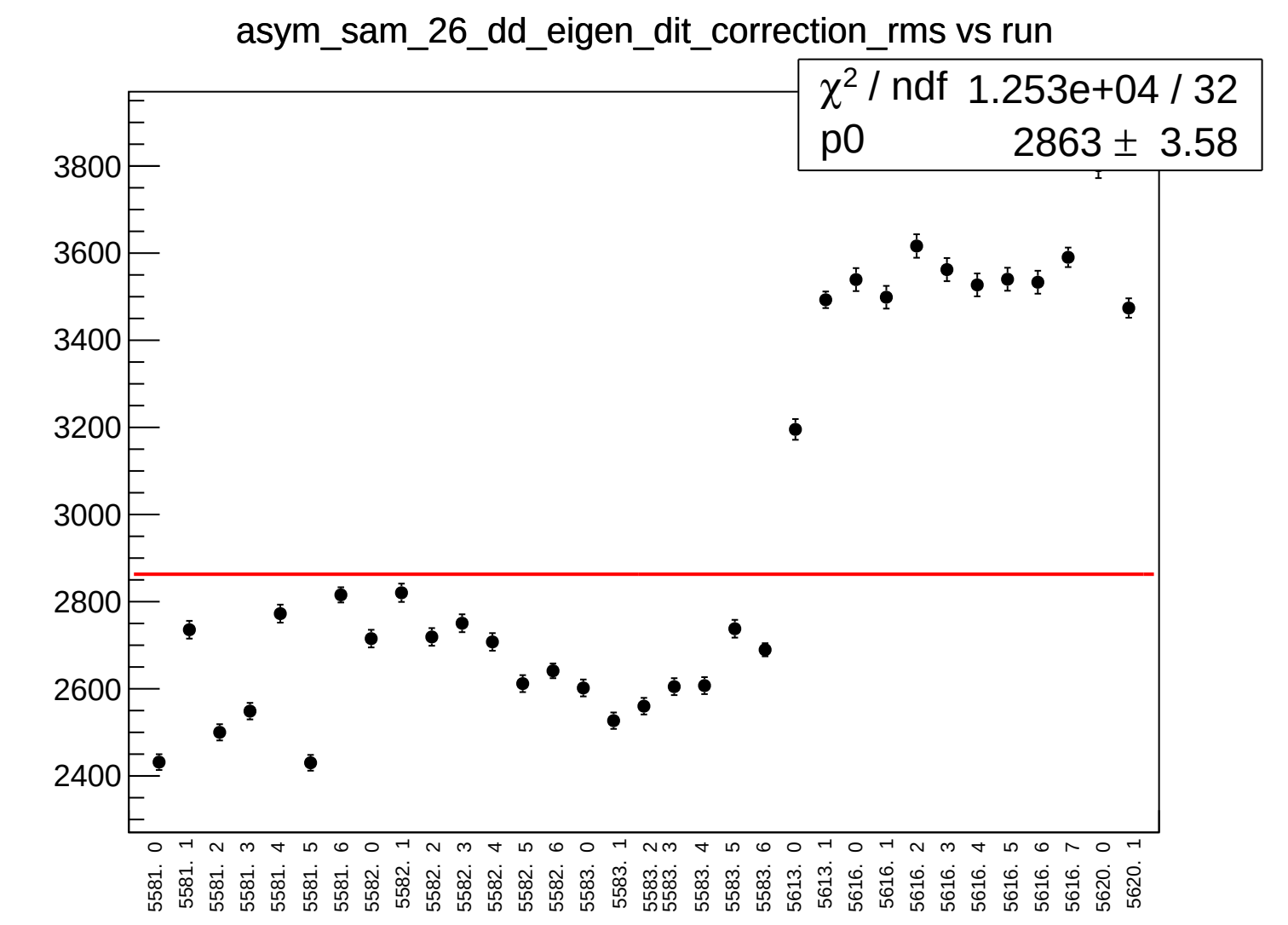

eigen_dit_asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 32.75 / 32
p0 −975.1 ± 553.8
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.96
Std Dev 0
2
1
0
−1
−2

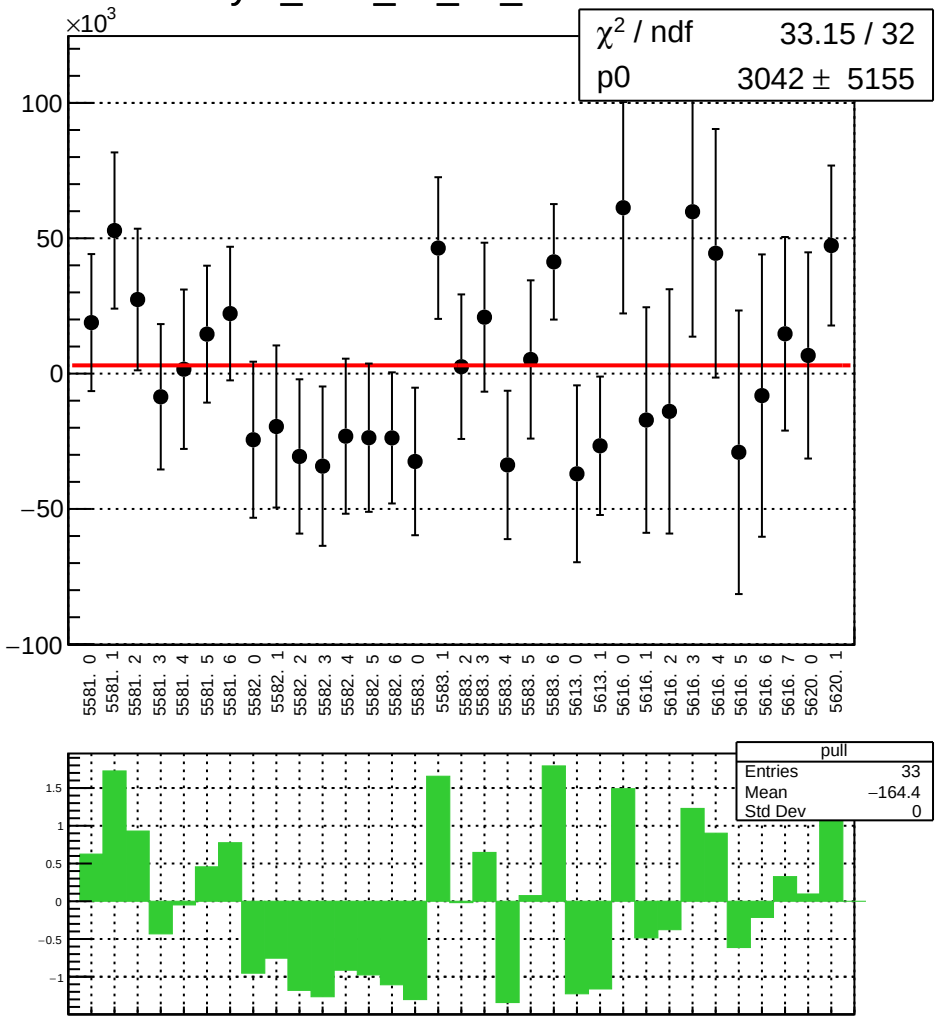

pull1D
Entries 33
Mean 0.1071
Std Dev 0.9904
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

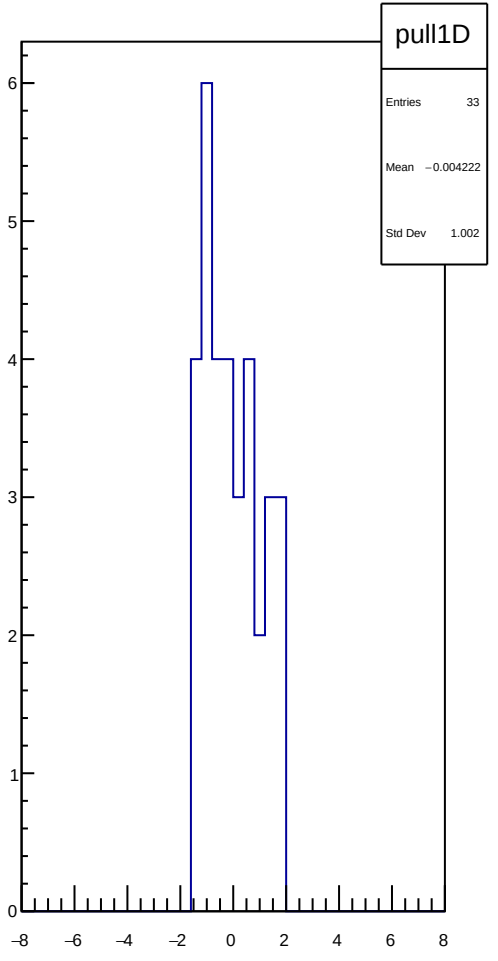

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1.432e+05 / 32
p0 279.3 ± 0.3916
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

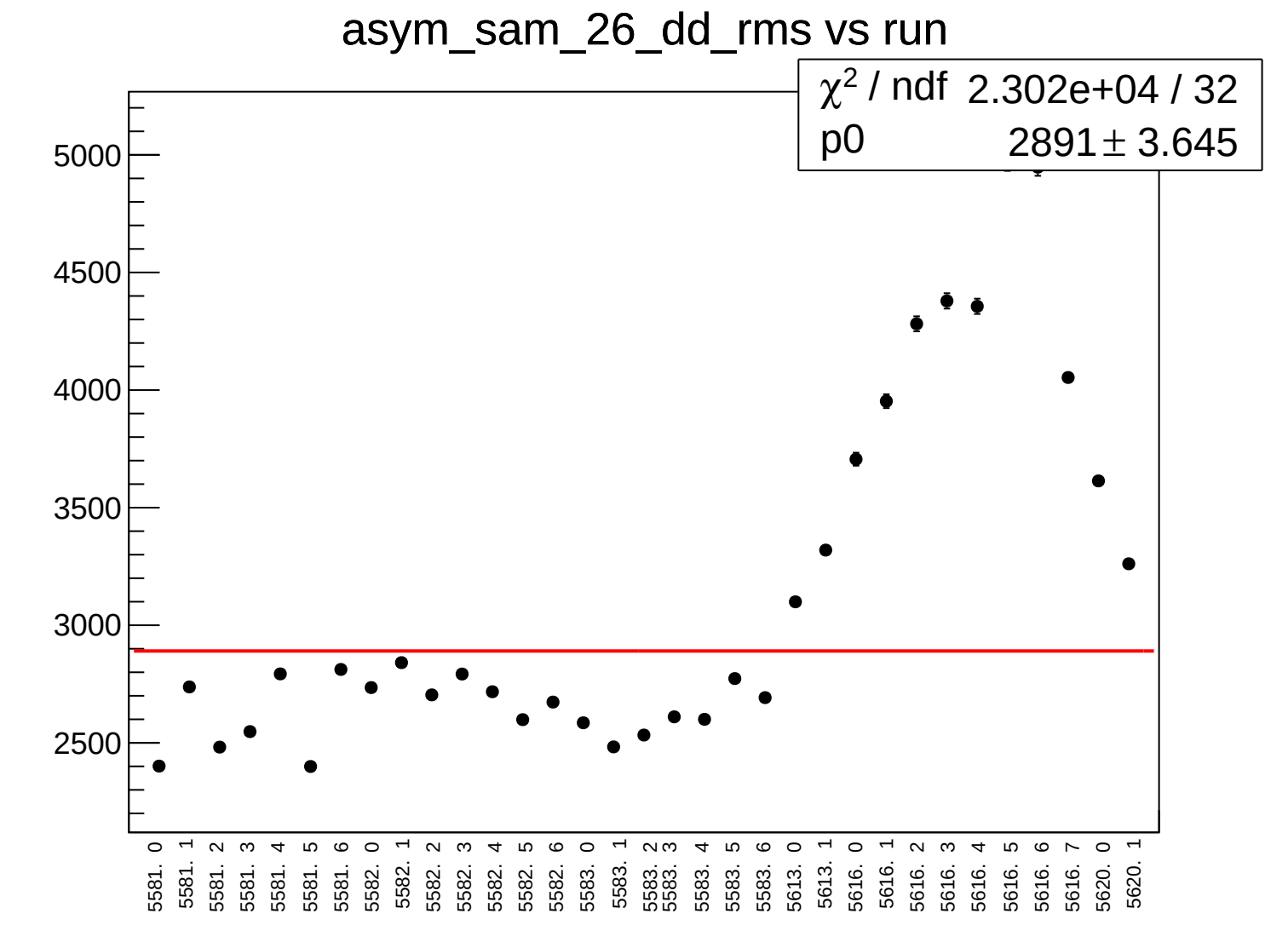

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 34.92 / 32
p0 −3882 ± 5063
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −126.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

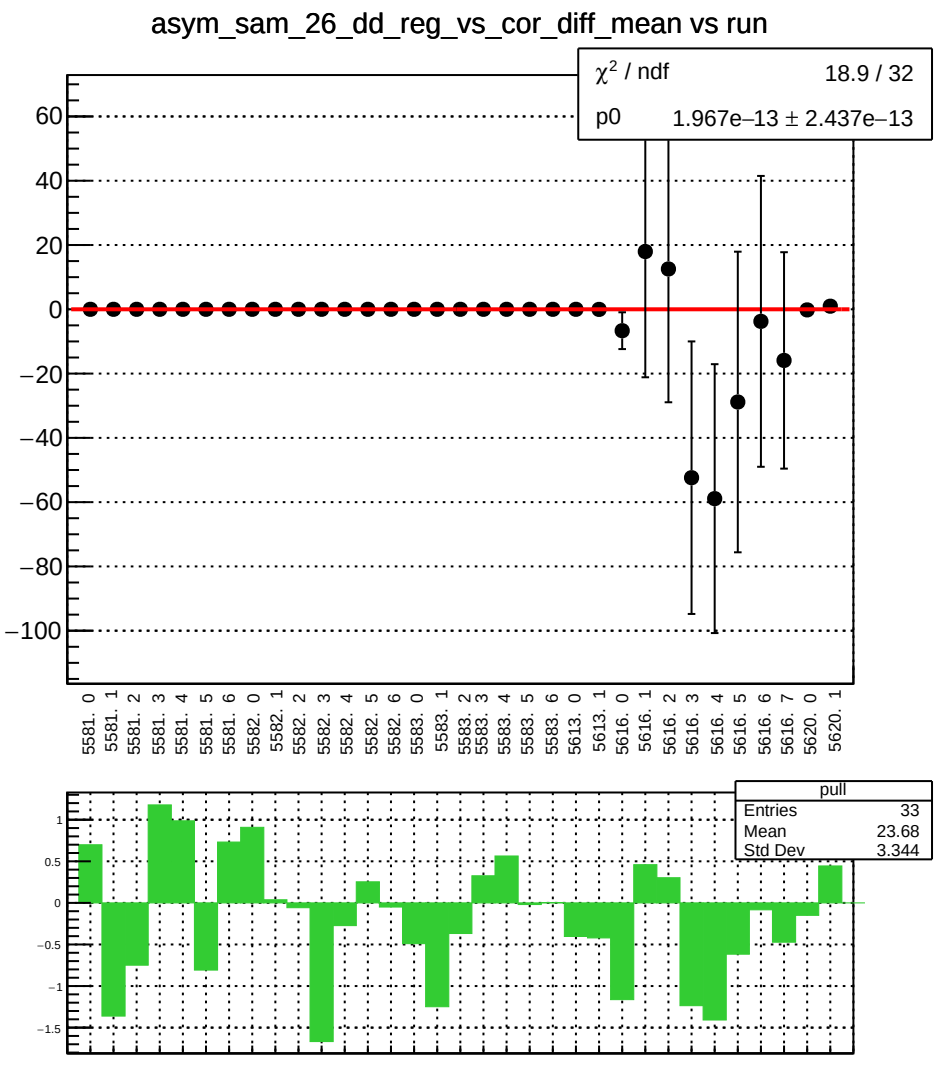

pull1D
Entries 33
Mean 0.005993
Std Dev 1.029
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

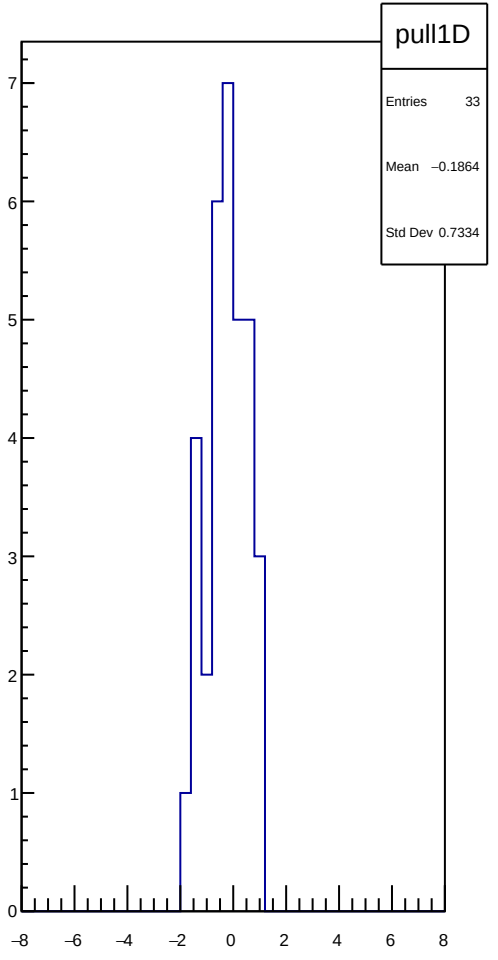

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.253e+04 / 32
p0 2863 ± 3.58
3800
3600
3400
3200
3000
2800
2600
2400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

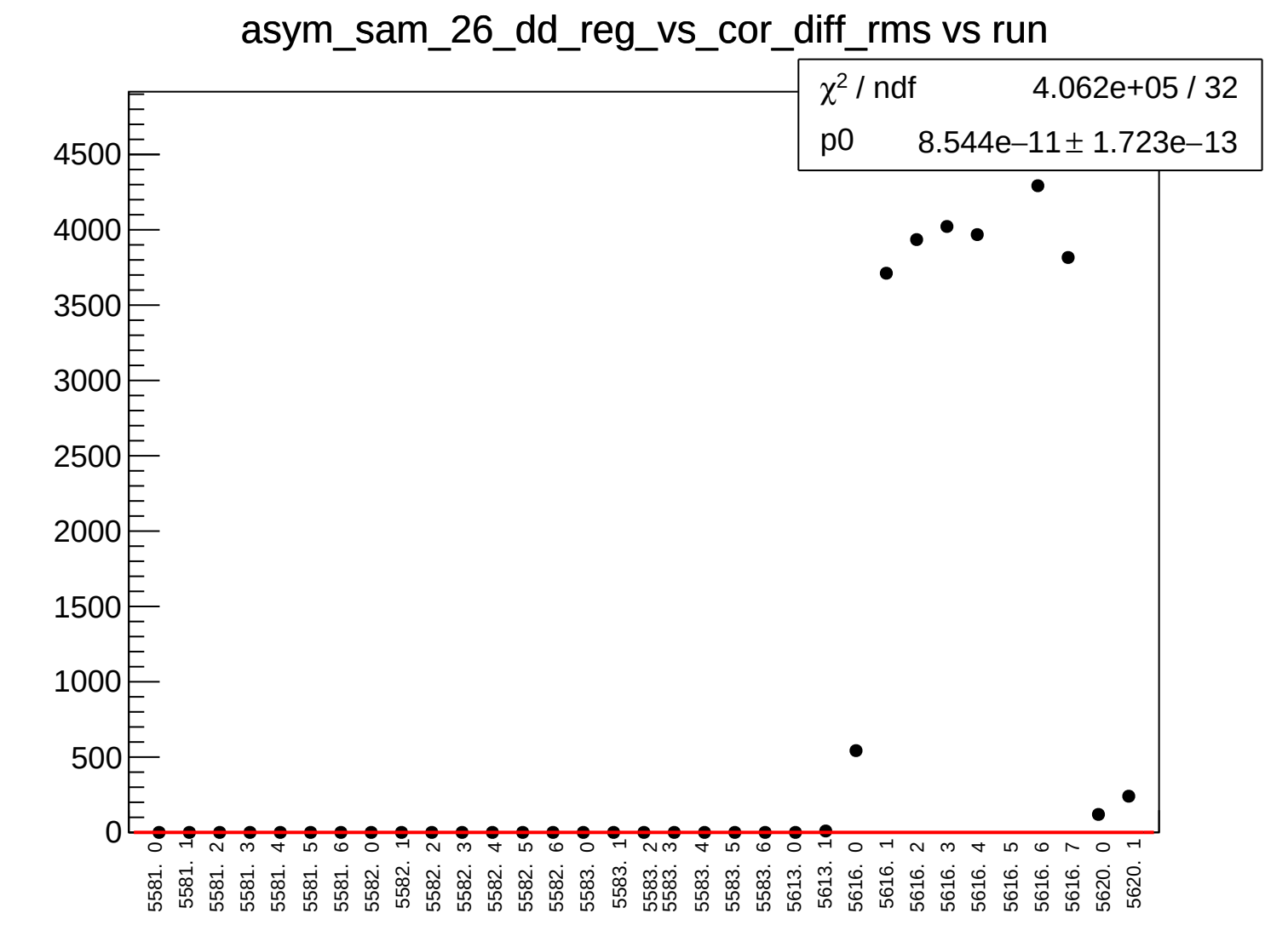

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 33.15 / 32
p0 3042 ± 5155
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −164.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

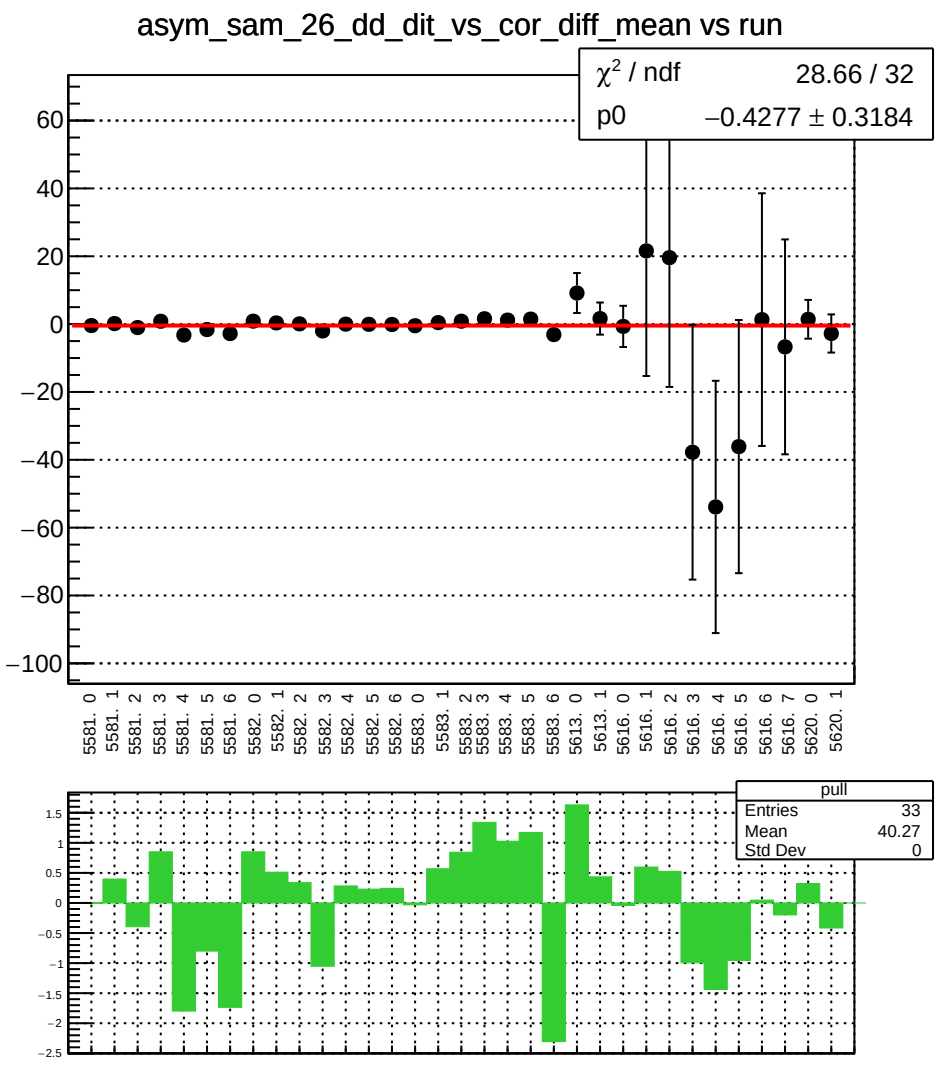

pull1D
Entries 33
Mean −0.004222
Std Dev 1.002
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

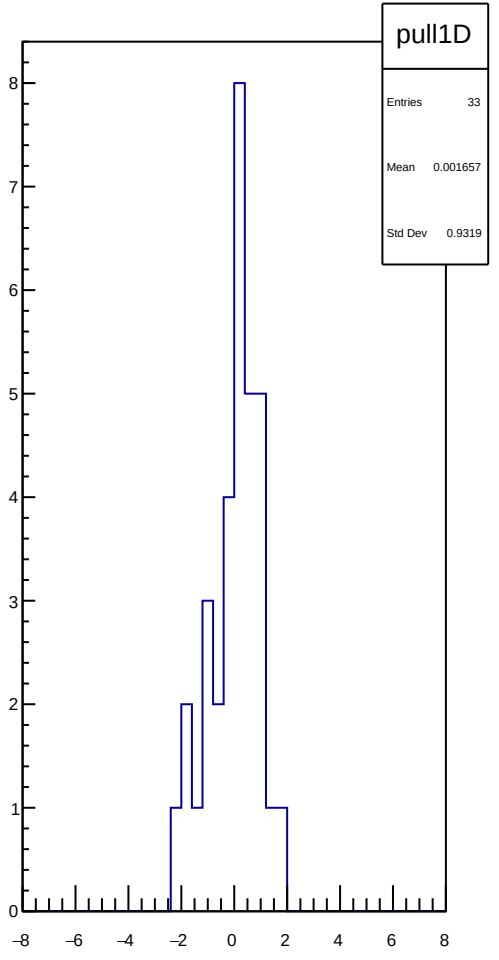

asym_sam_26_dd_rms vs run
χ² / ndf 2.302e+04 / 32
p0 2891 ± 3.645
5000
4500
4000
3500
3000
2500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

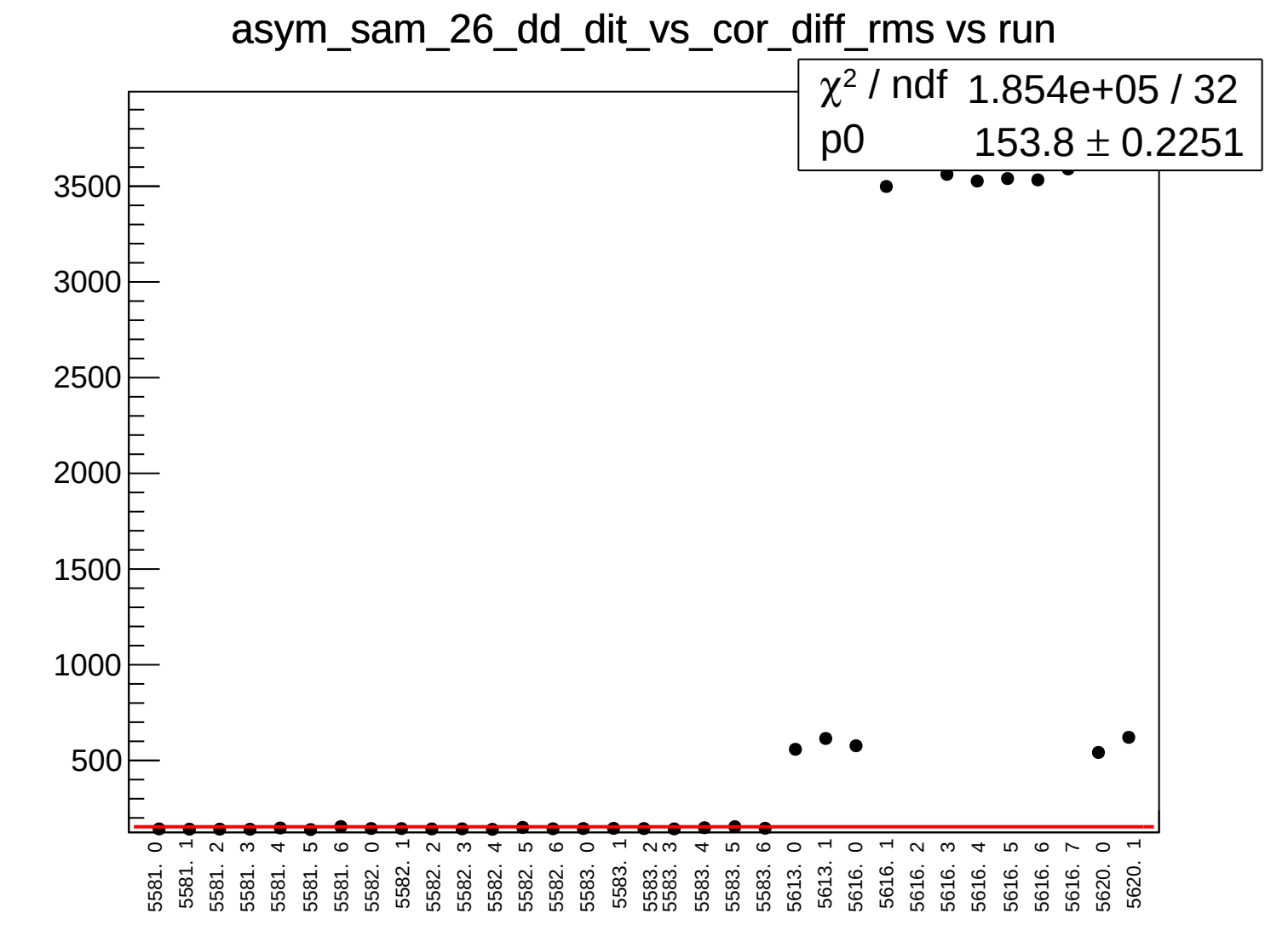

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 18.9 / 32
p0 1.967e−13 ± 2.437e−13
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.68
Std Dev 3.344
1
0.5
0
−0.5
−1
−1.5

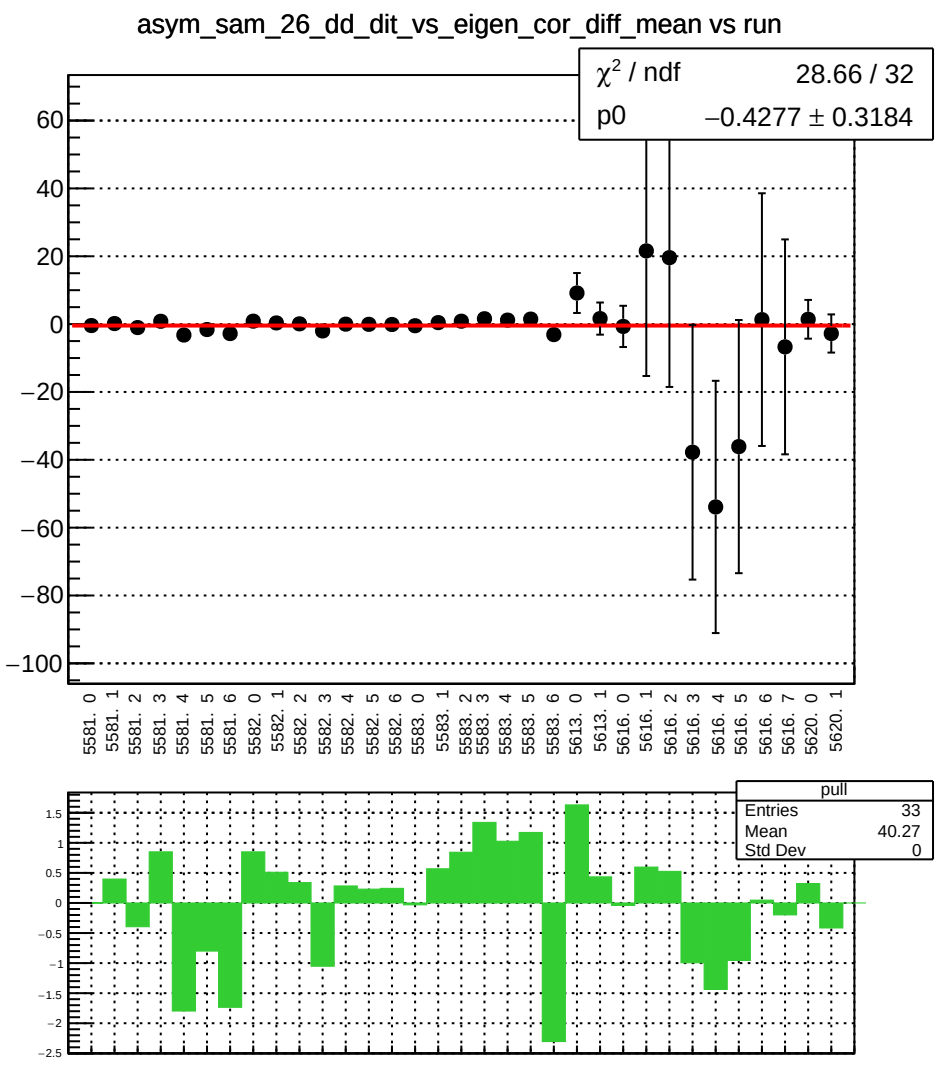

pull1D
Entries 33
Mean −0.1864
Std Dev 0.7334
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

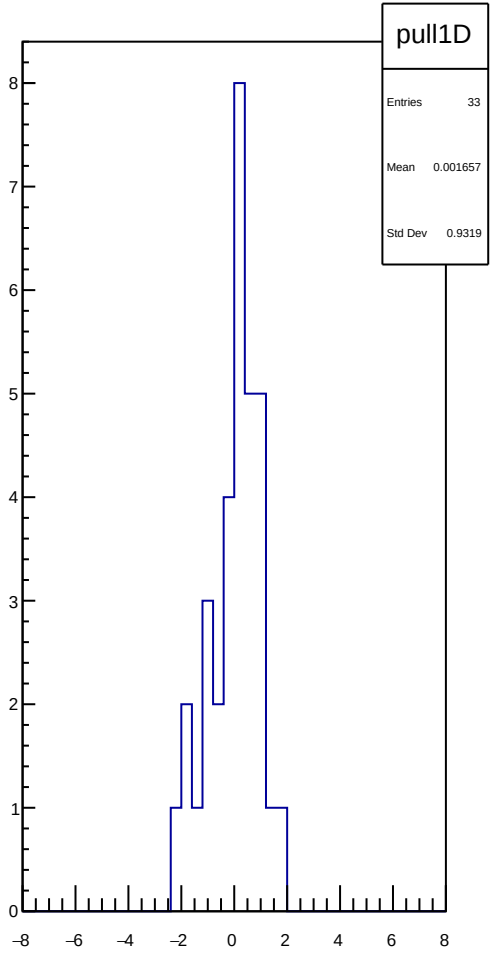

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.062e+05 / 32
p0 8.544e−11 ± 1.723e−13
4500
4000
3500
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

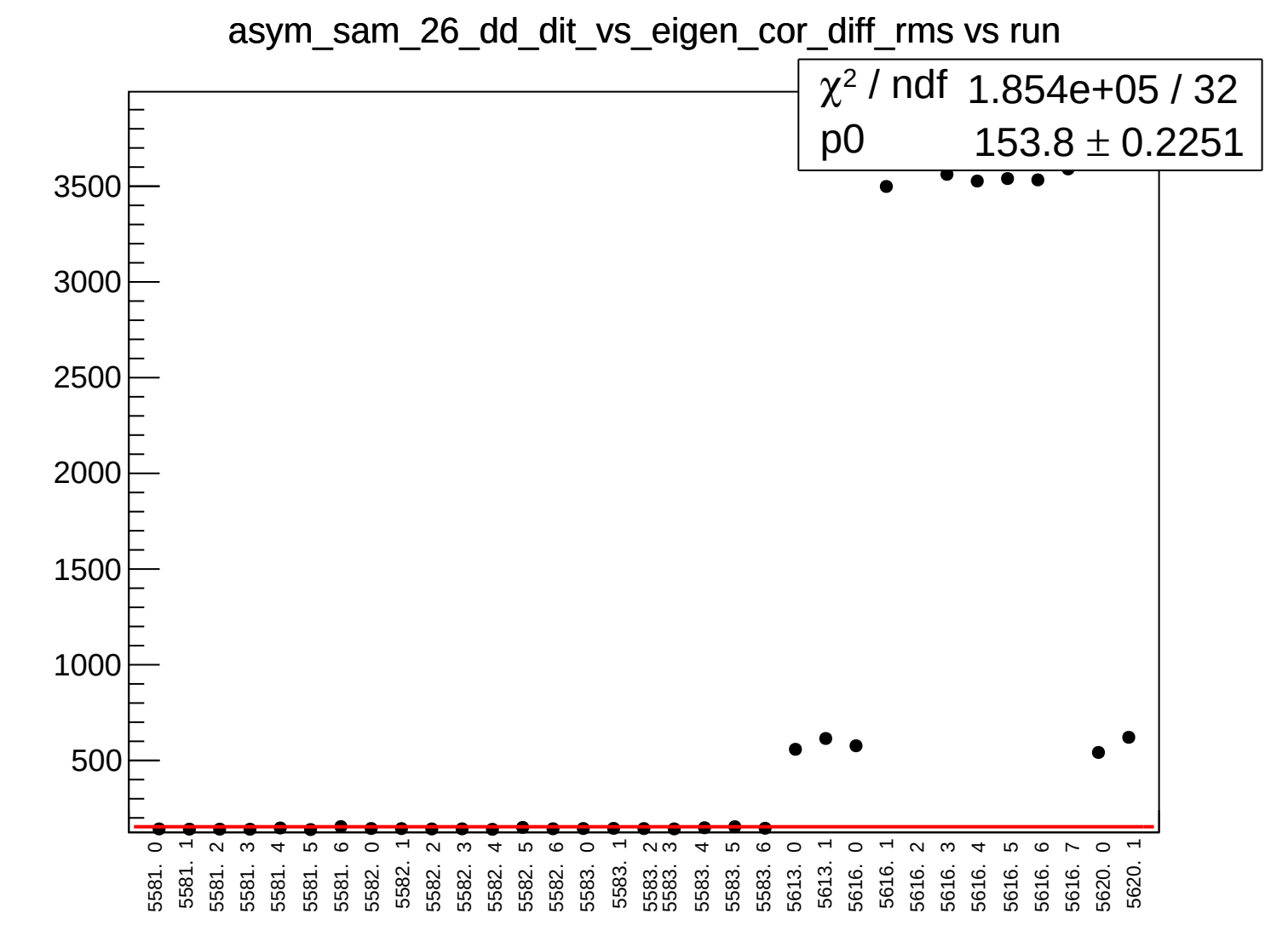

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 28.66 / 32
p0 −0.4277 ± 0.3184
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.27
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

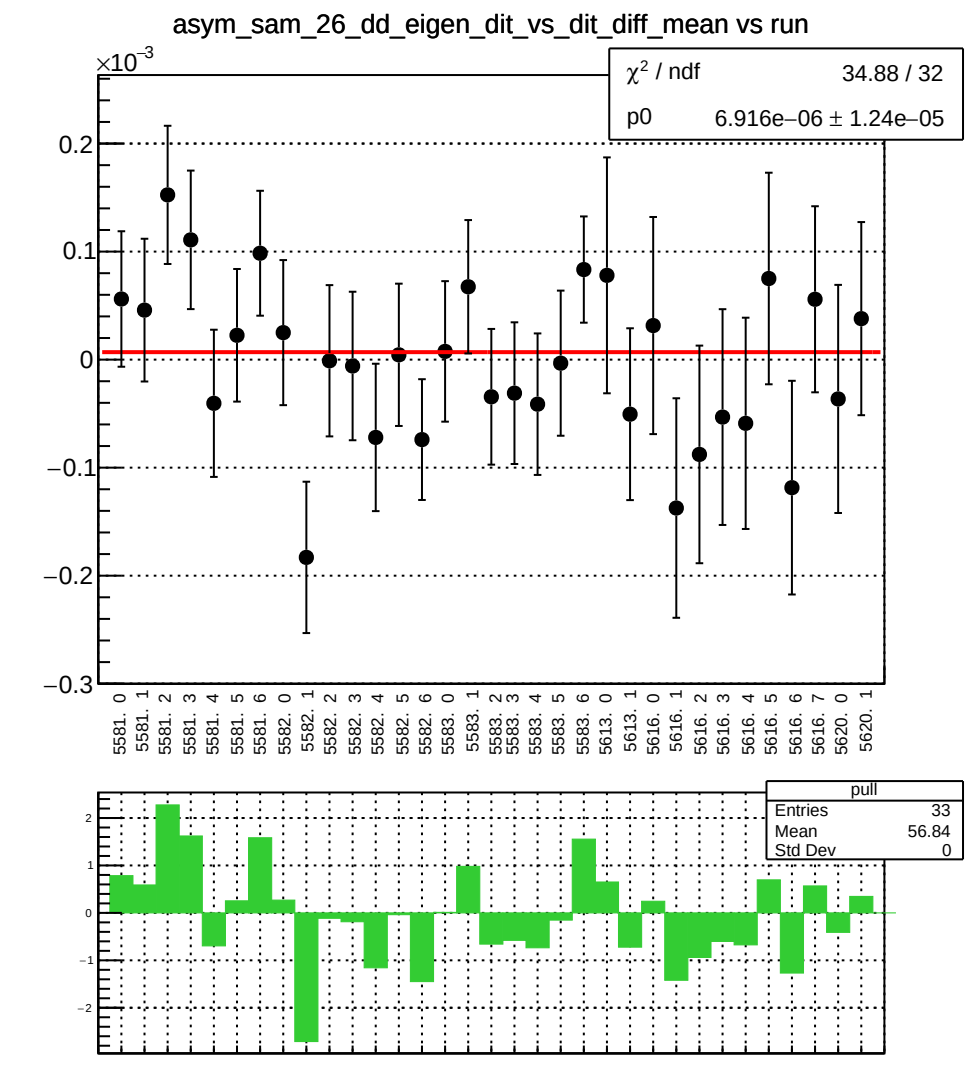

pull1D
Entries 33
Mean 0.001657
Std Dev 0.9319
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

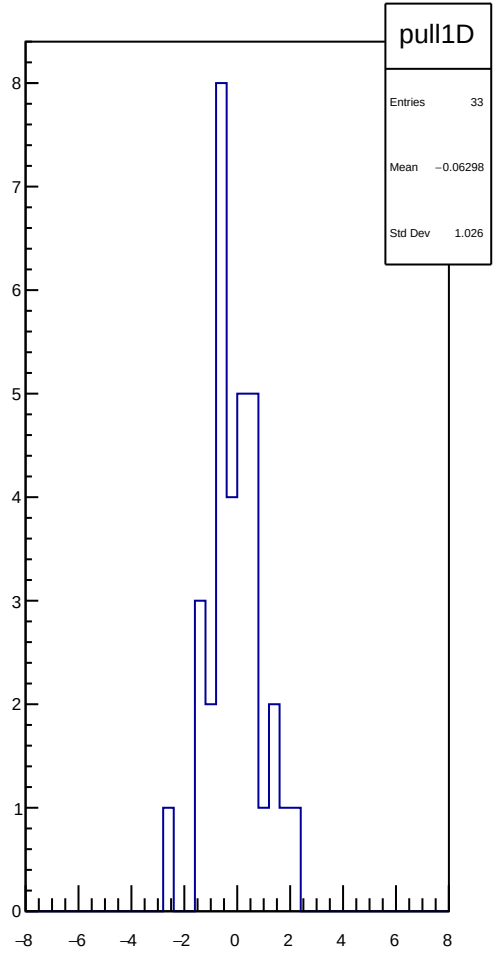

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.854e+05 / 32
p0 153.8 ± 0.2251
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

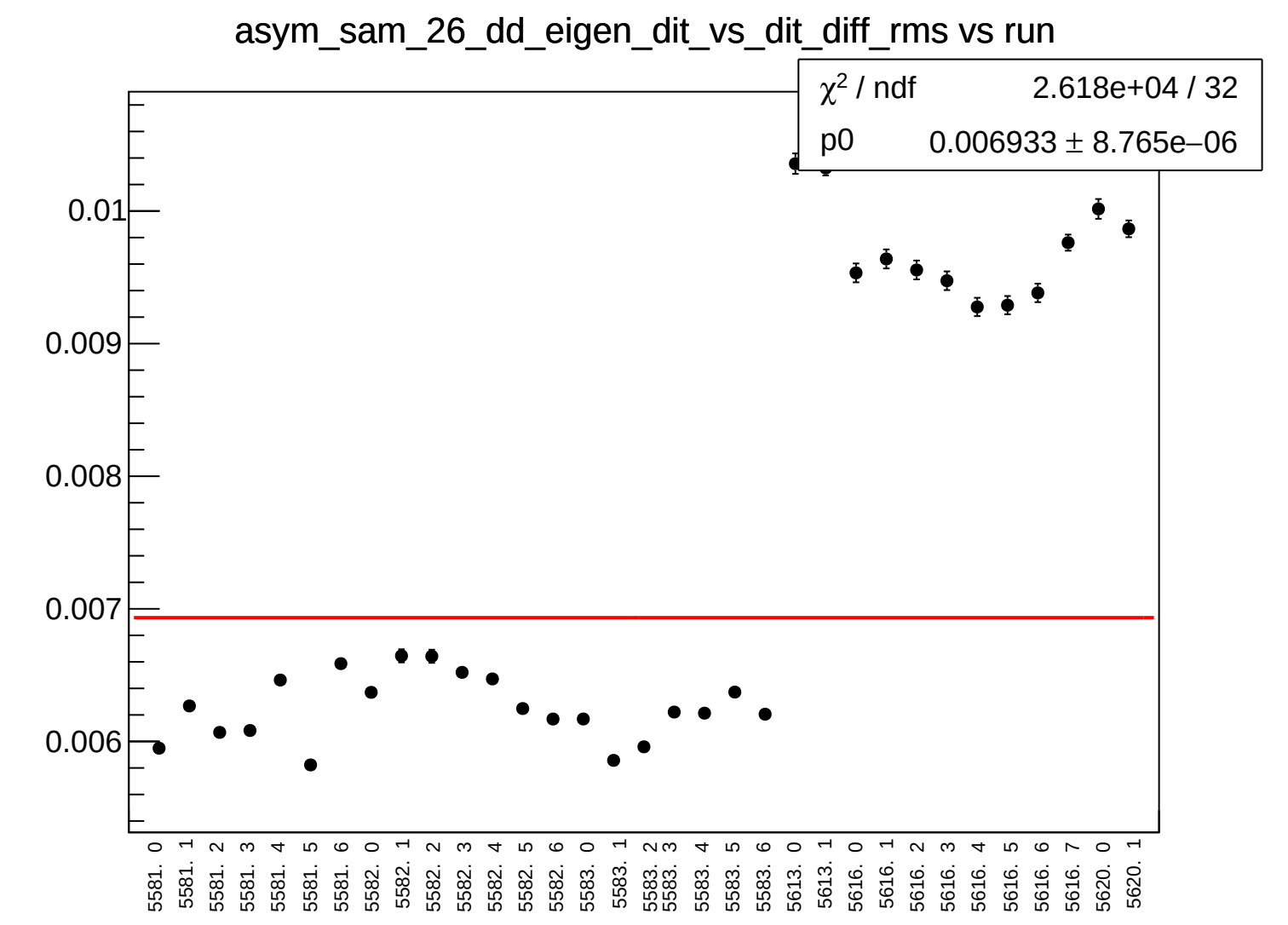

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.66 / 32
p0 −0.4277 ± 0.3184
pull
Entries 33
Mean 40.27
Std Dev 0

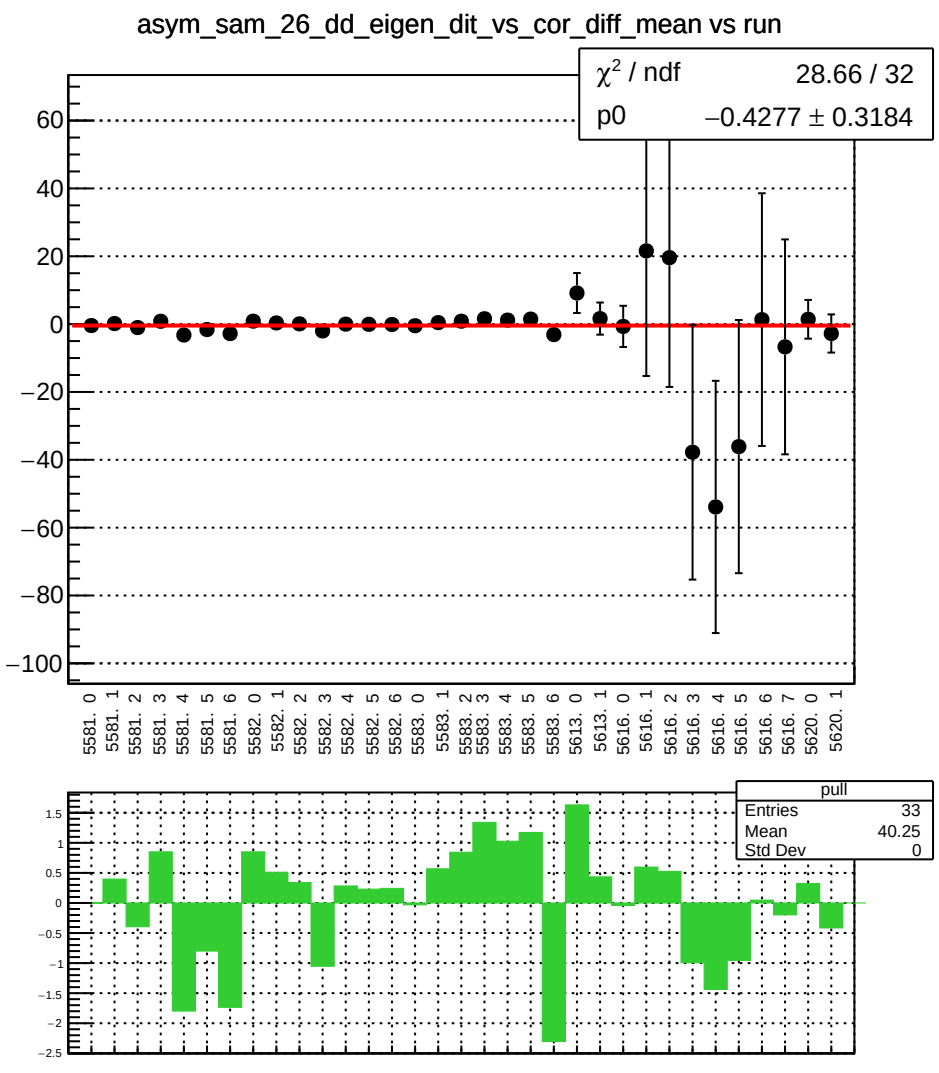

pull1D
Entries 33
Mean 0.001657
Std Dev 0.9319

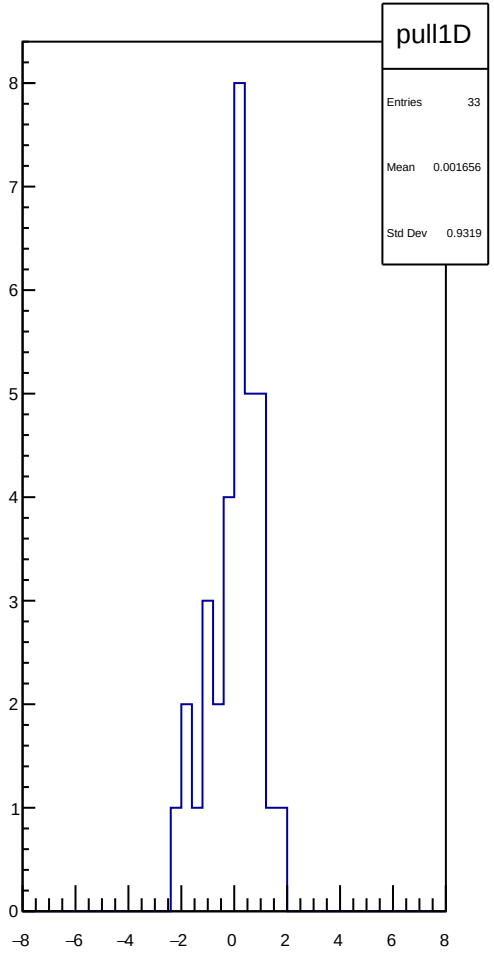

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.854e+05 / 32
p0 153.8 ± 0.2251
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

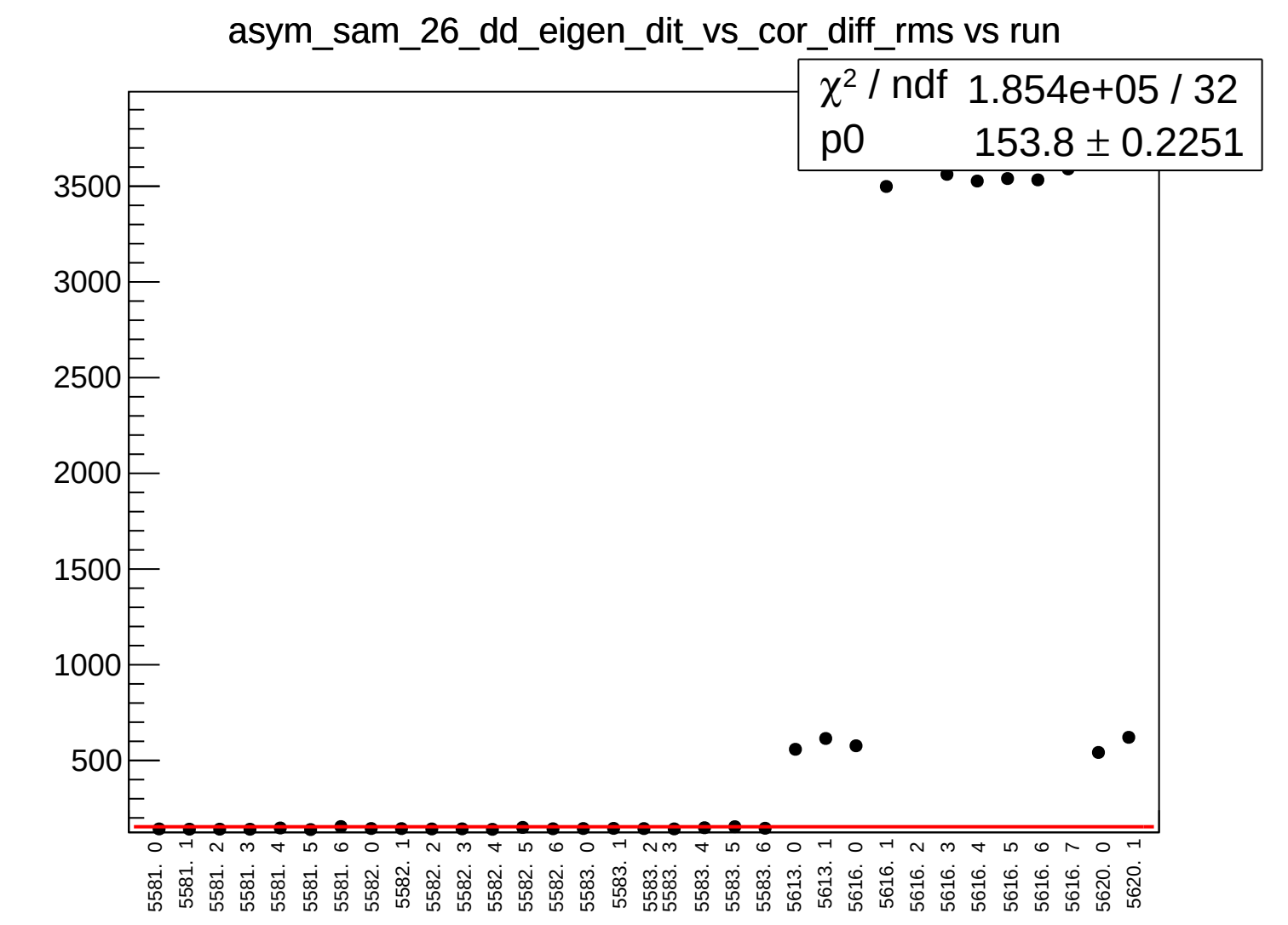

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 34.88 / 32
p0 6.916e−06 ± 1.24e−05
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 56.84
Std Dev 0
2
1
0
−1
−2

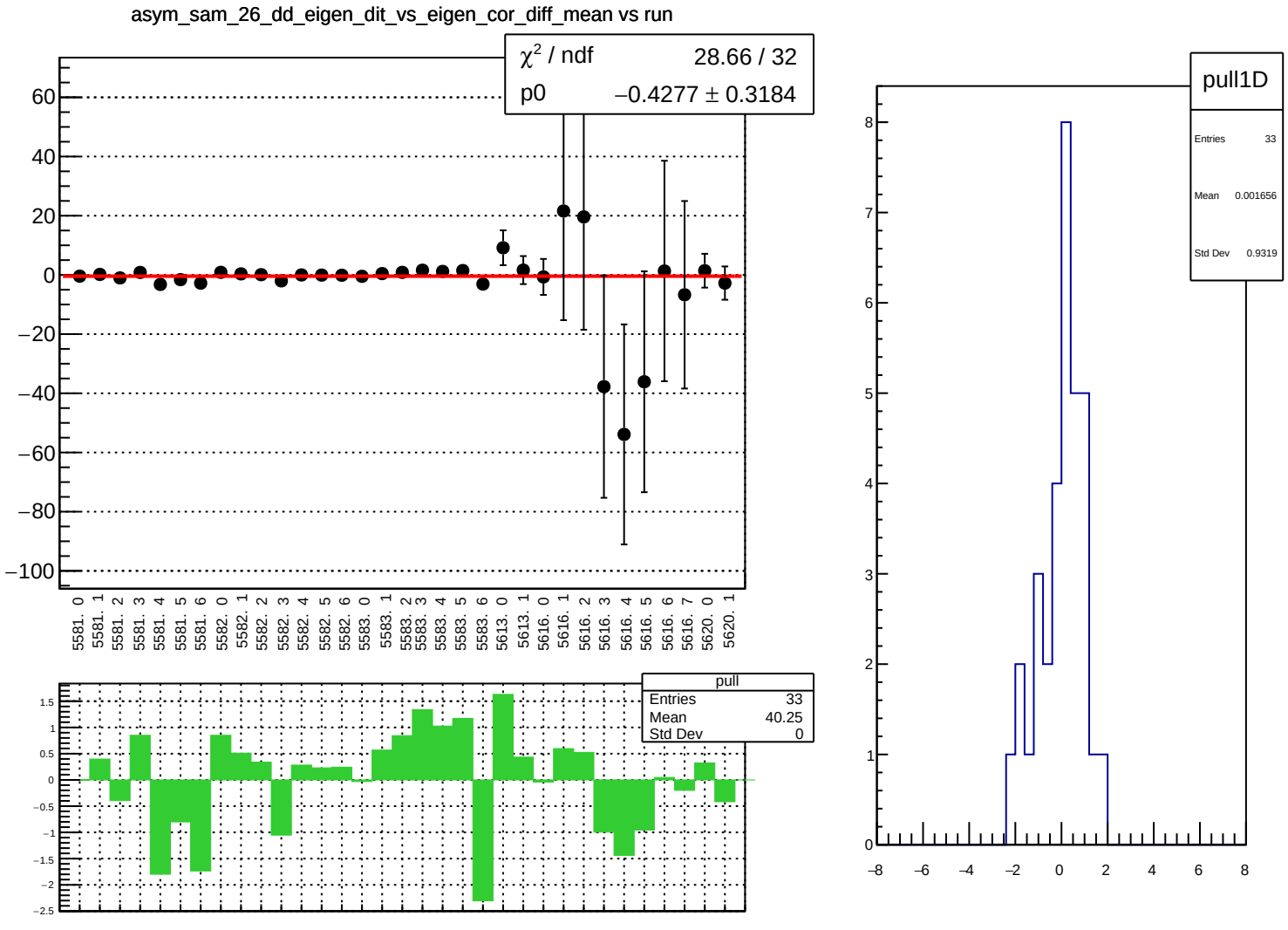

pull1D
Entries 33
Mean −0.06298
Std Dev 1.026
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

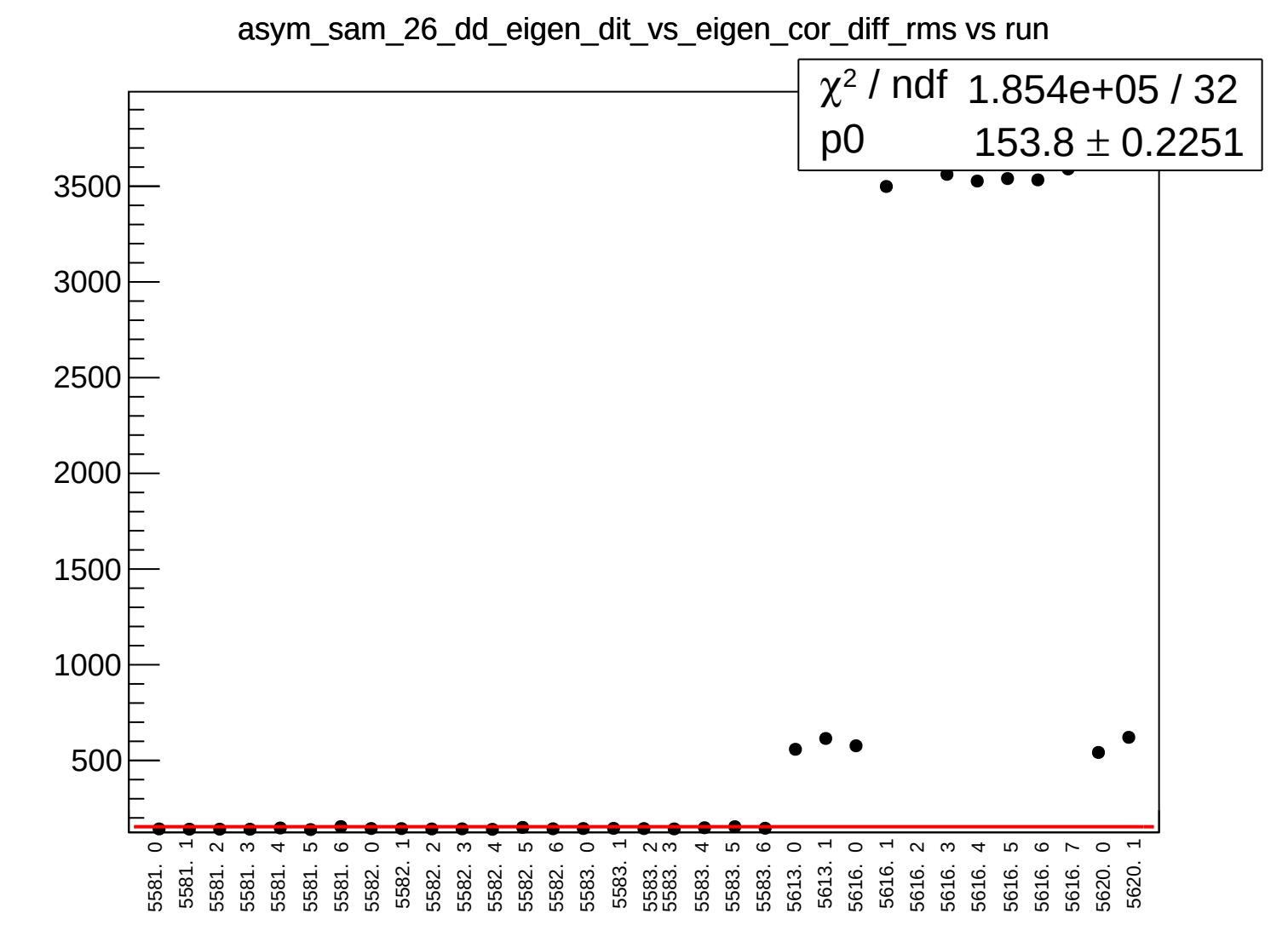

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.618e+04 / 32
p0 0.006933 ± 8.765e−06
0.01
0.009
0.008
0.007
0.006
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

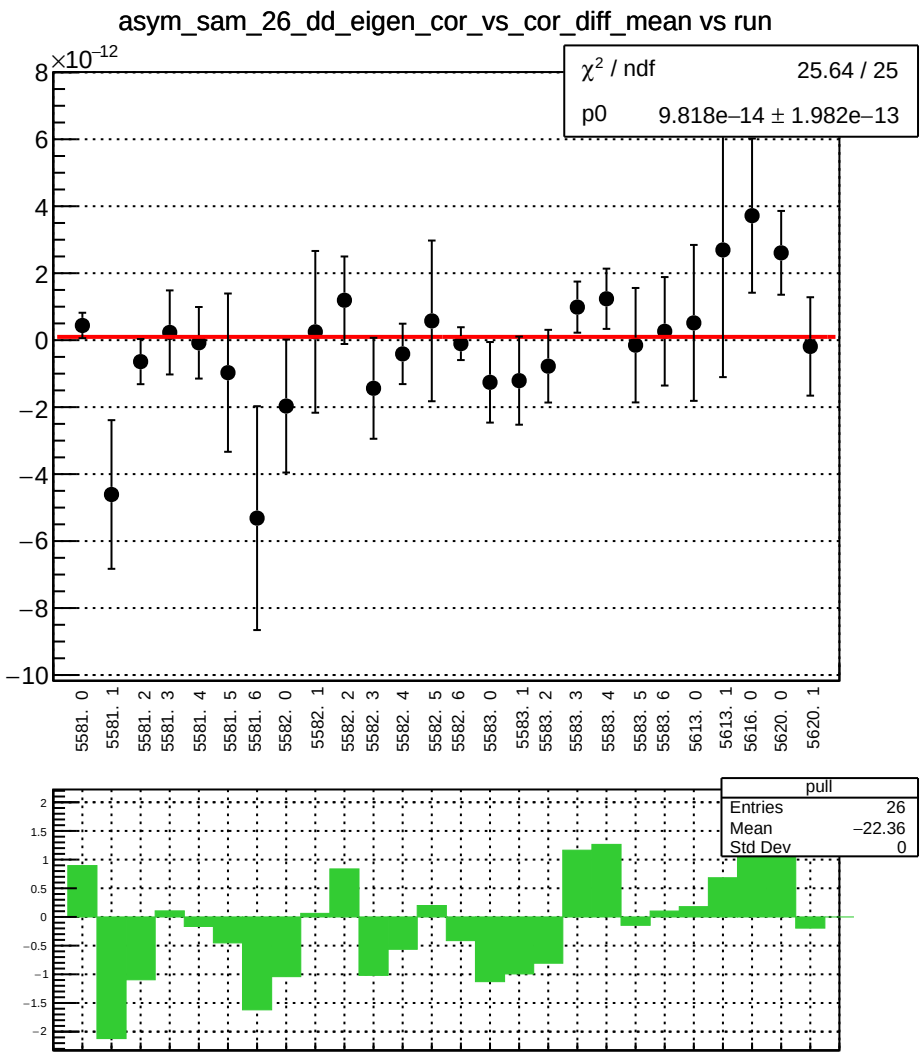

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 28.66 / 32
p0 −0.4277 ± 0.3184
pull
Entries 33
Mean 40.25
Std Dev 0

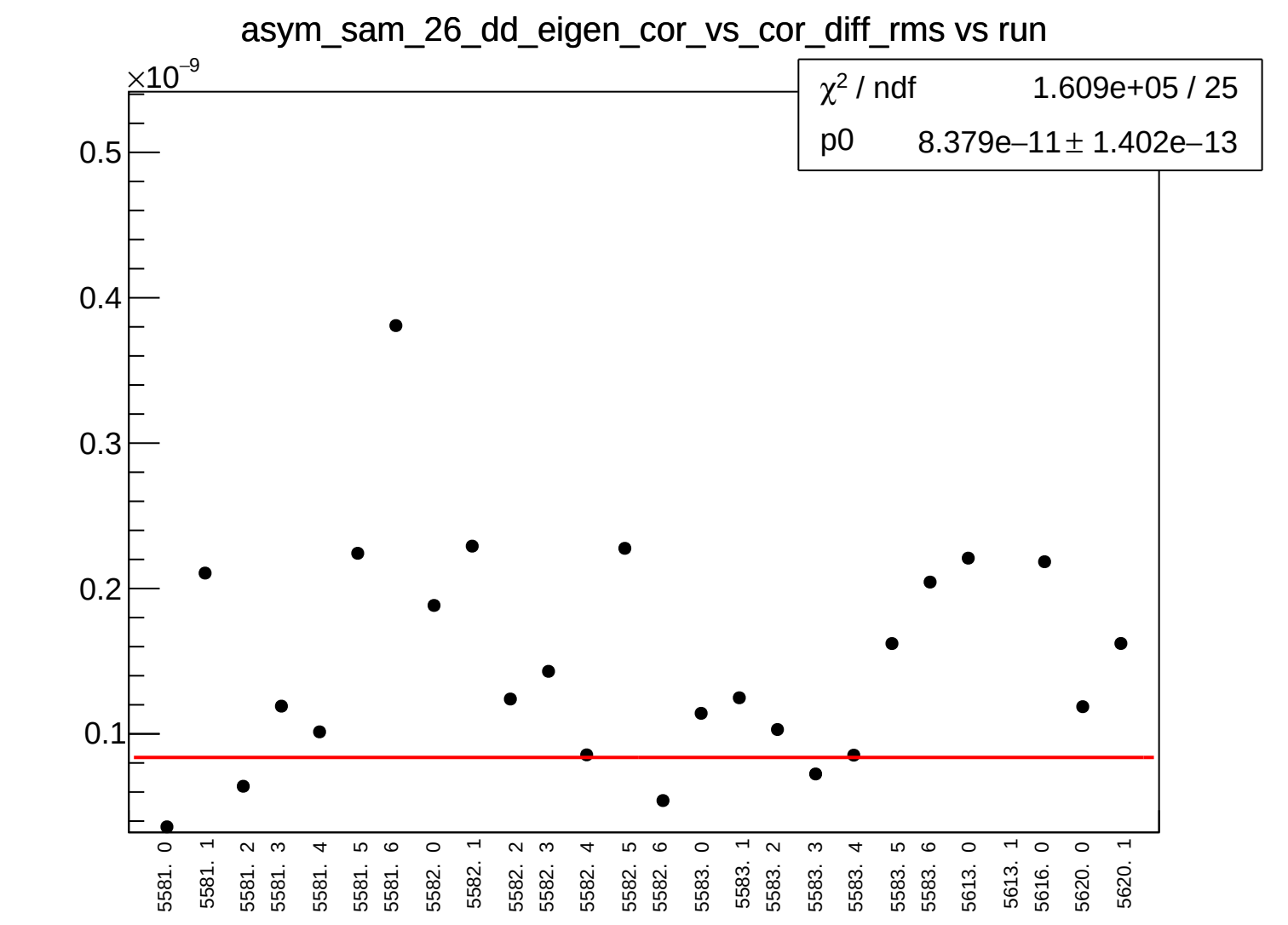

pull1D
Entries 33
Mean 0.001656
Std Dev 0.9319

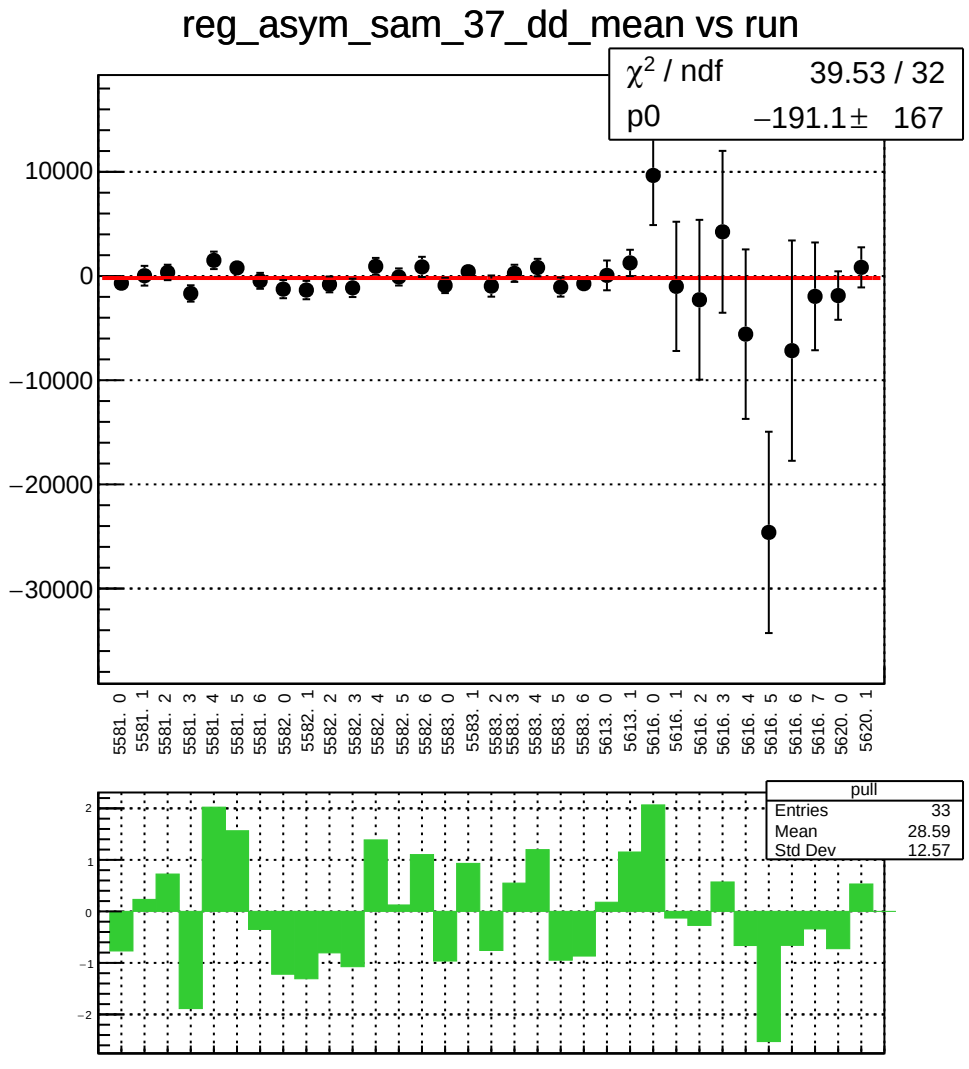

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.854e+05 / 32
p0 153.8 ± 0.2251
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

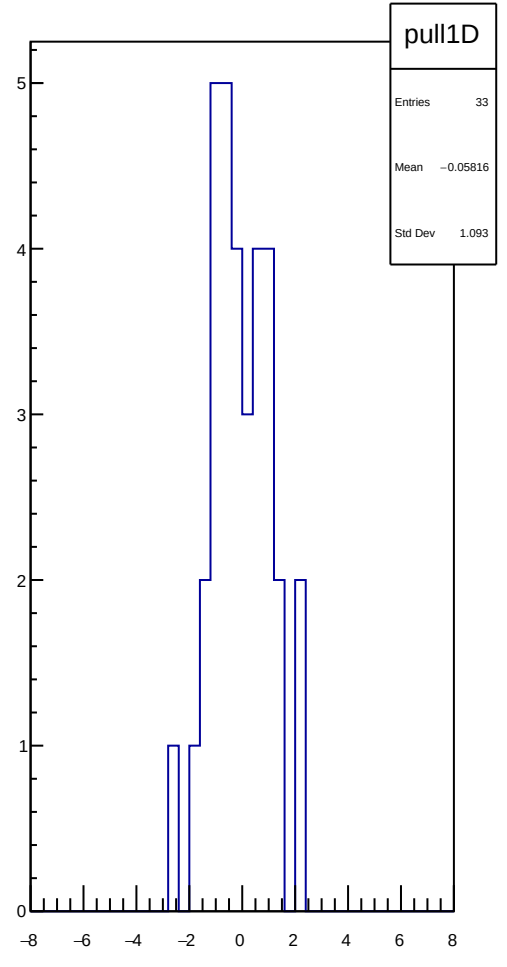

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.66 / 32
p0 −0.4277 ± 0.3184
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.001656
Std Dev 0.9319
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

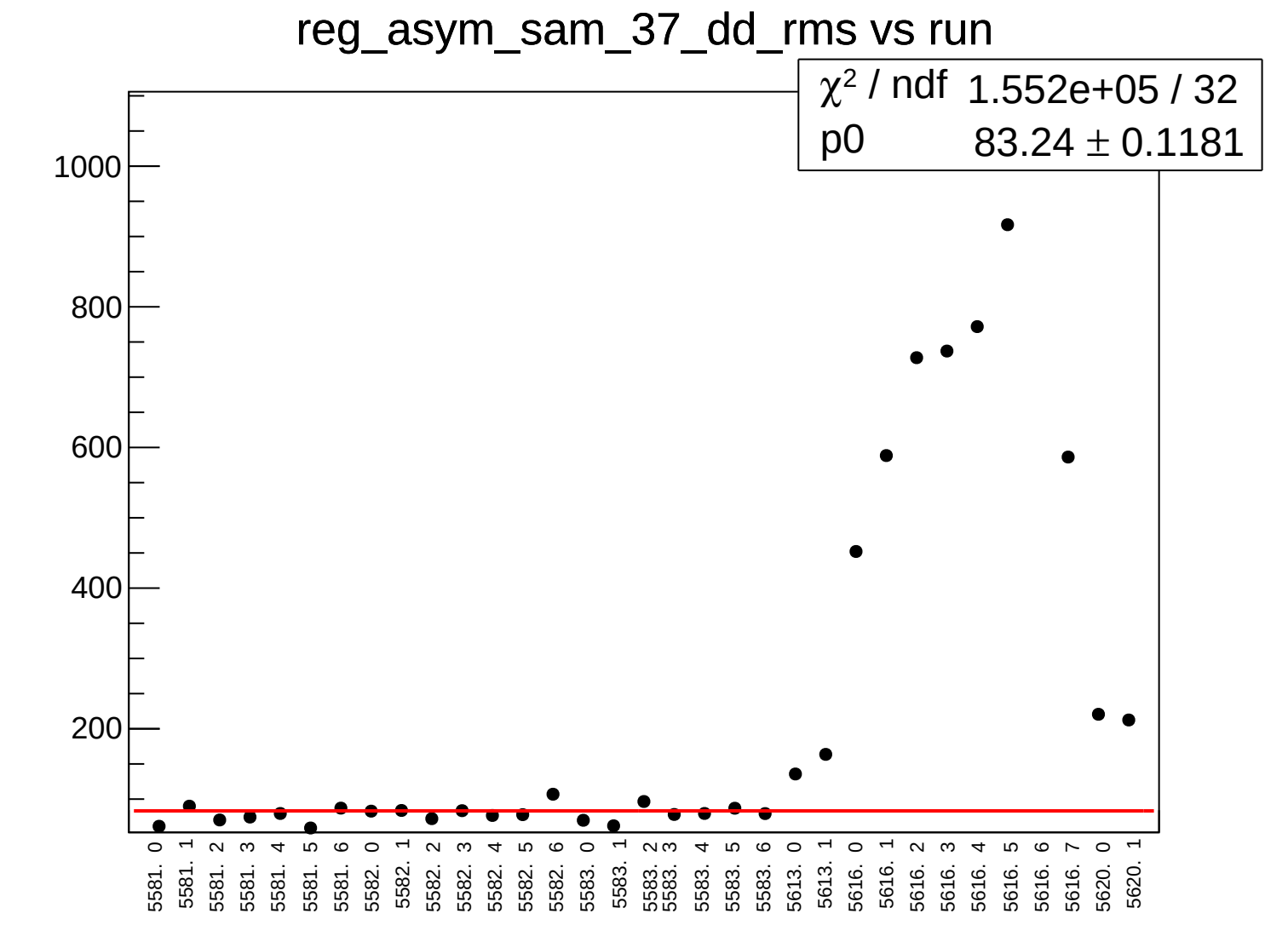

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.854e+05 / 32
p0 153.8 ± 0.2251
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

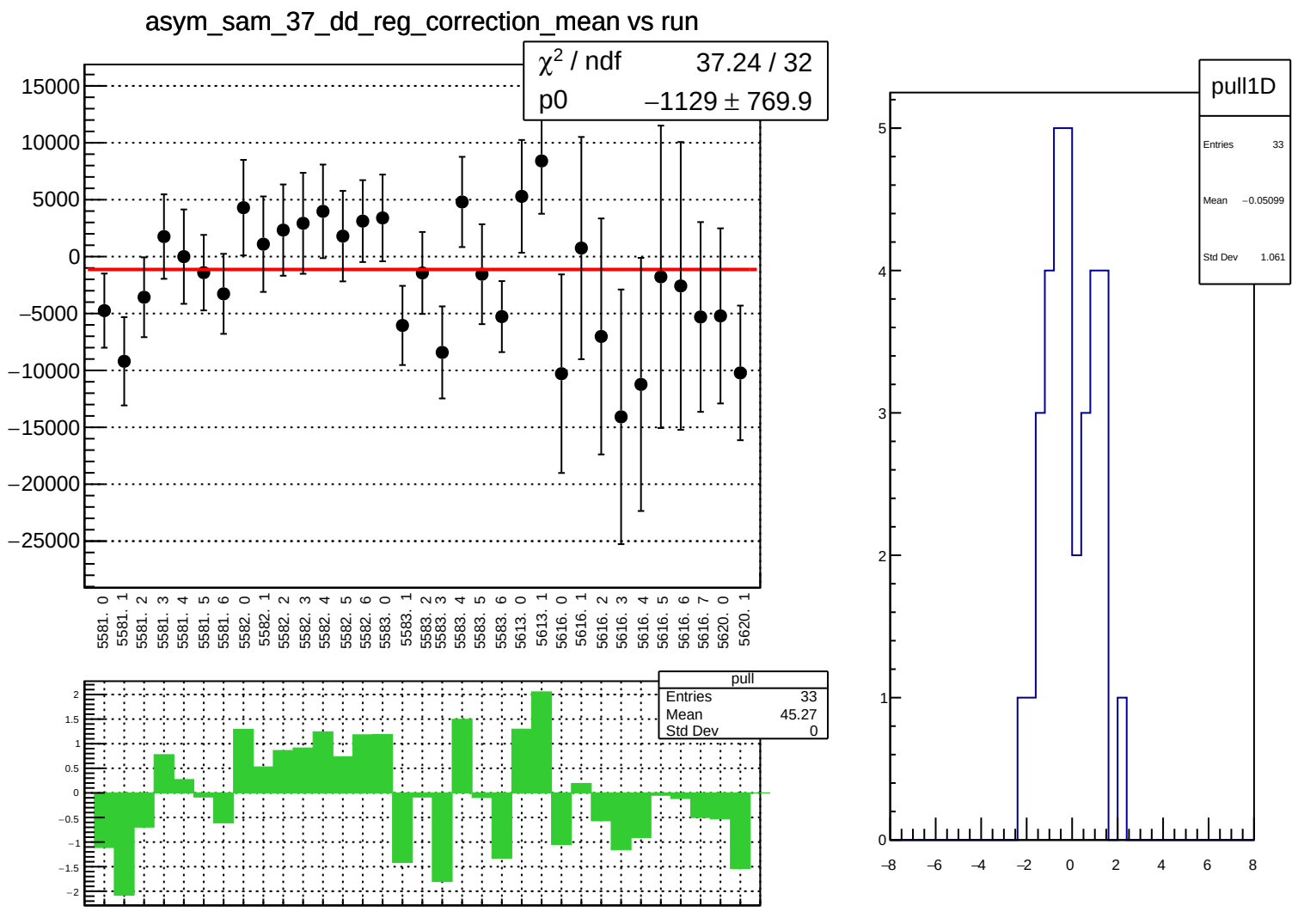

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 25.64 / 25
p0 9.818e−14 ± 1.982e−13
8
6
4
2
0
−2
−4
−6
−8
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −22.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.1031
Std Dev 0.9878
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

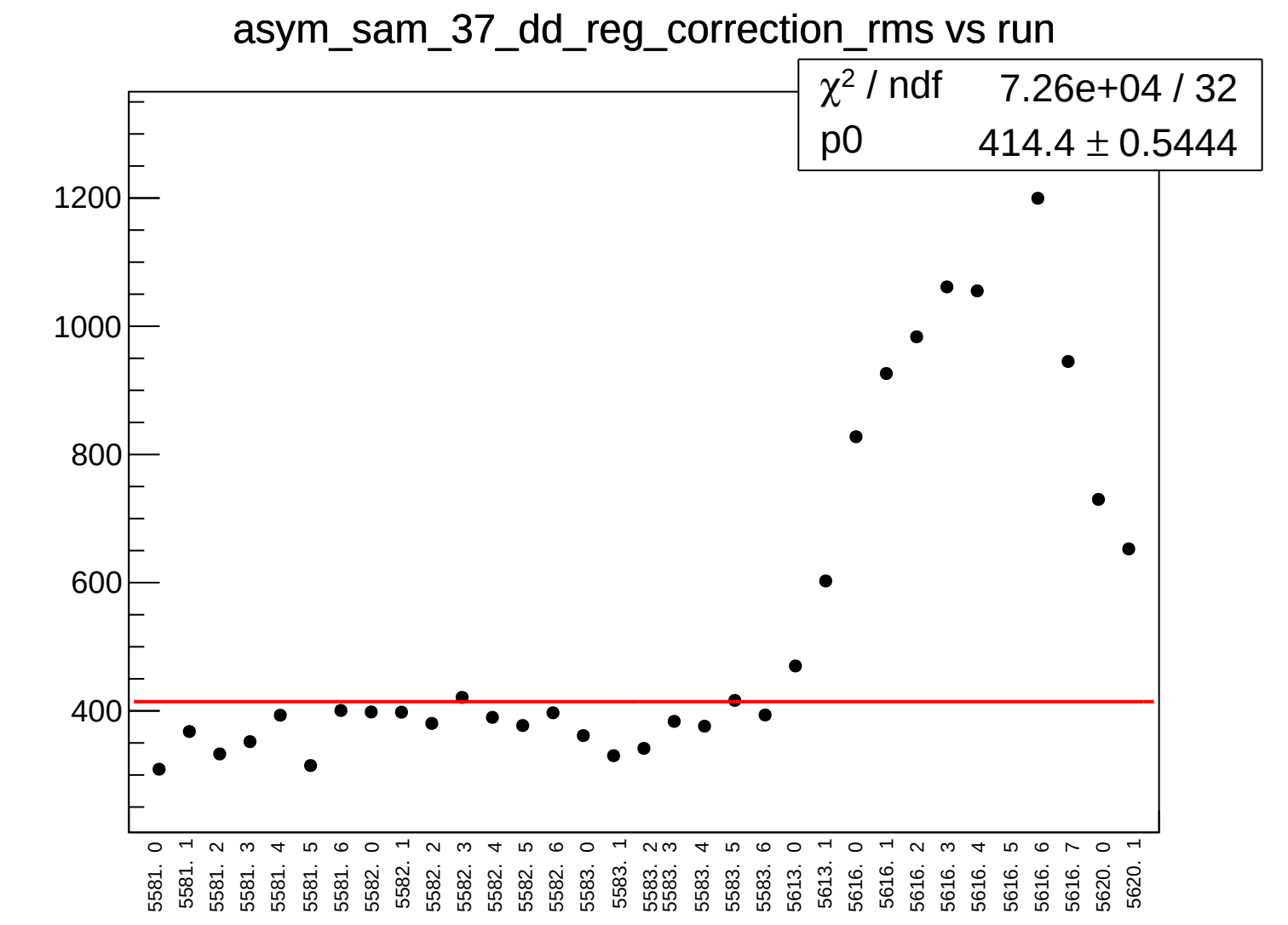

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.609e+05 / 25
p0 8.379e−11 ± 1.402e−13
0.5
0.4
0.3
0.2
0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

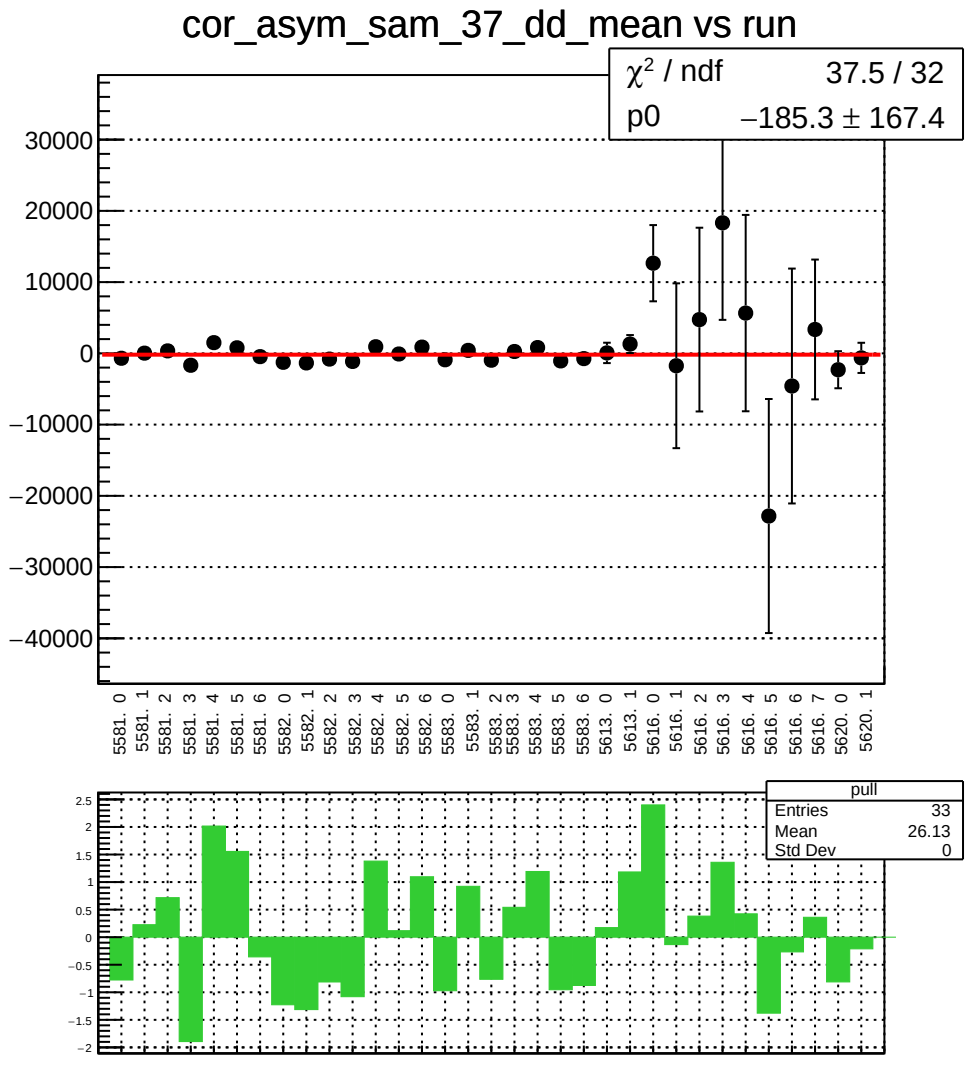

reg_asym_sam_37_dd_mean vs run
χ² / ndf 39.53 / 32
p0 −191.1± 167
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.59
Std Dev 12.57
2
1
0
−1
−2

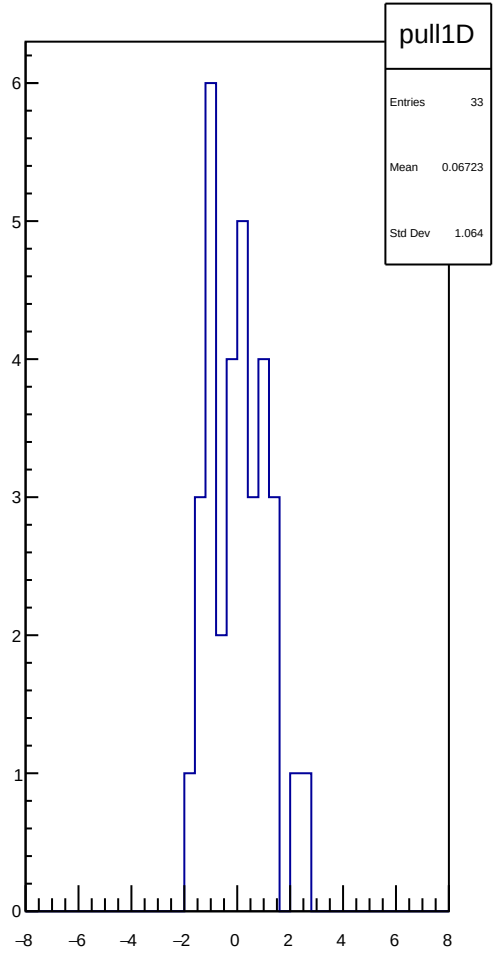

pull1D
Entries 33
Mean −0.05816
Std Dev 1.093
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

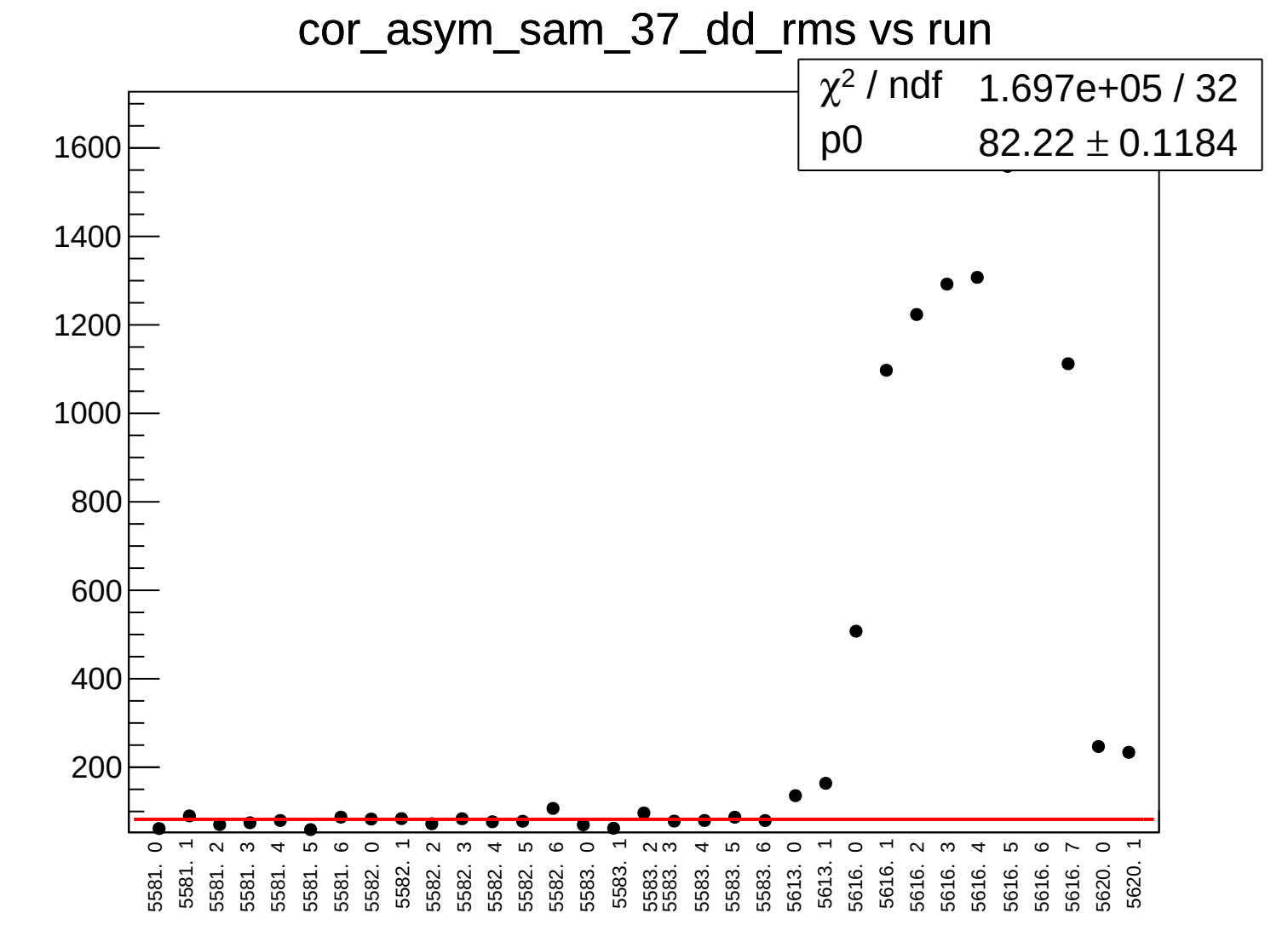

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.552e+05 / 32
p0 83.24 ± 0.1181
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

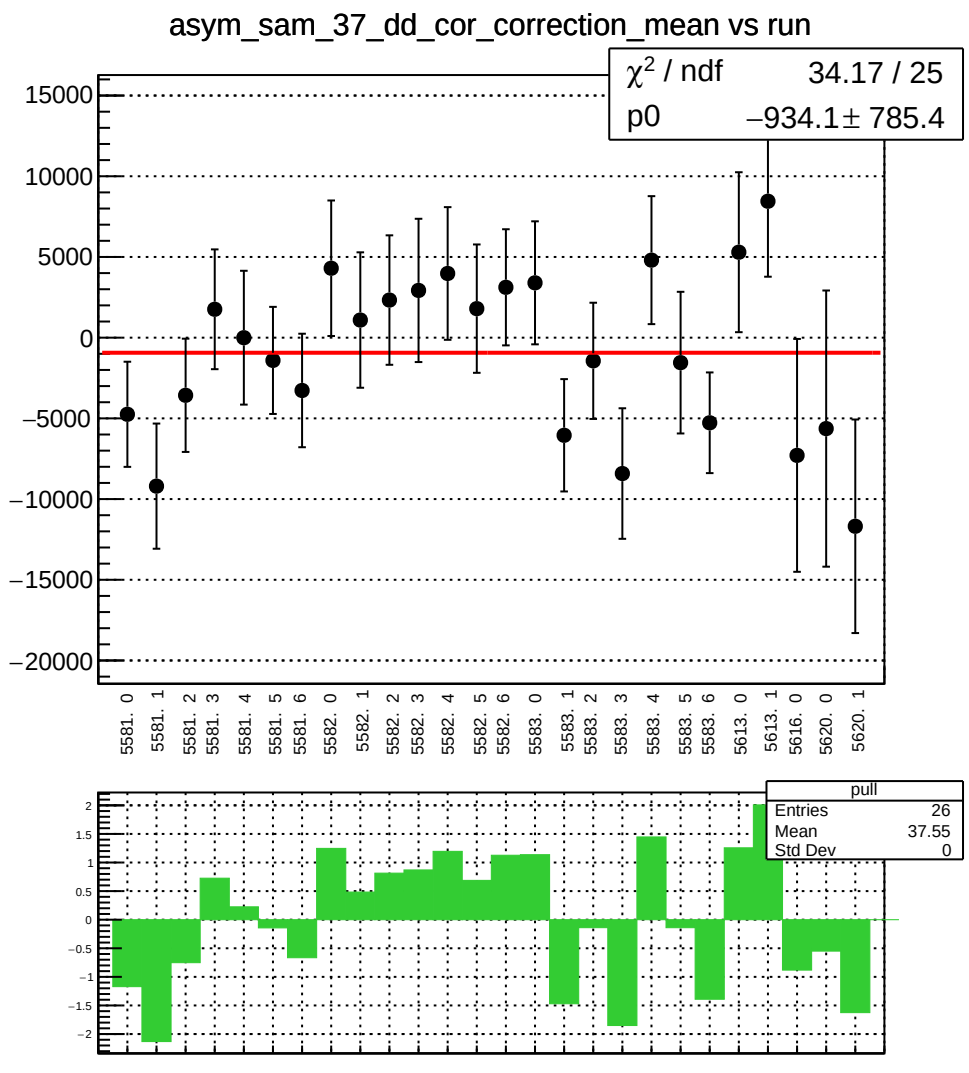

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 37.24 / 32
p0 −1129 ± 769.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 45.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.05099
Std Dev 1.061
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

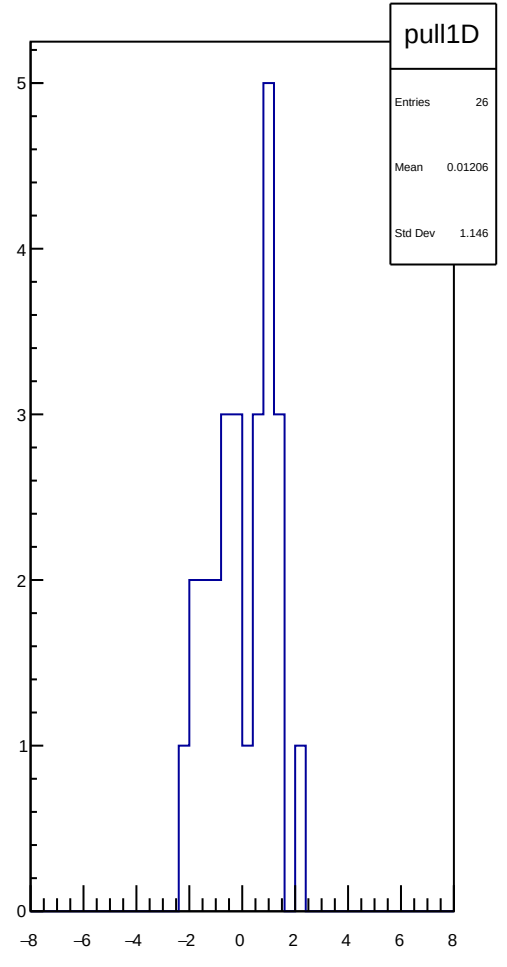

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 7.26e+04 / 32
p0 414.4 ± 0.5444
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

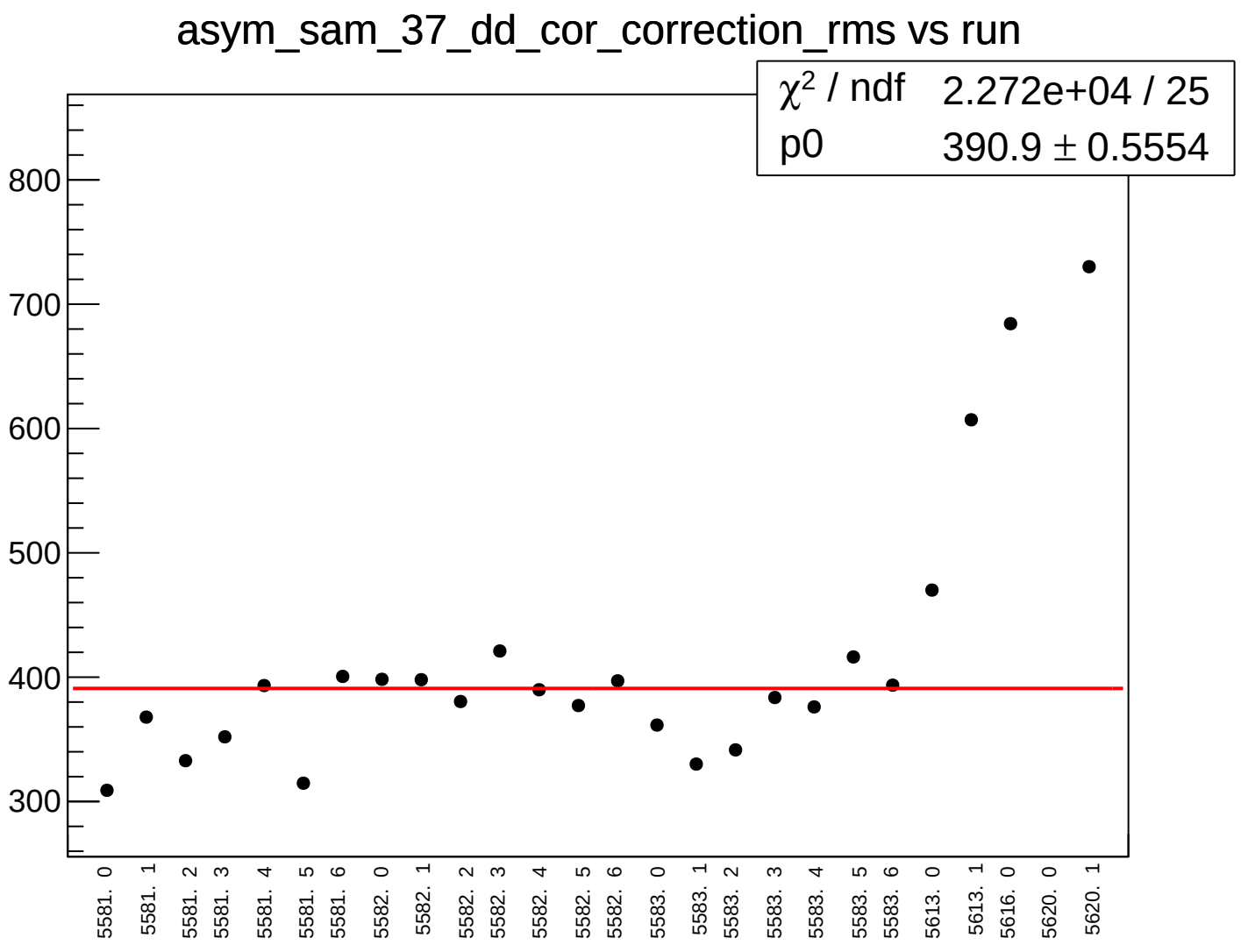

cor_asym_sam_37_dd_mean vs run
χ² / ndf 37.5 / 32
p0 −185.3 ± 167.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.13
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

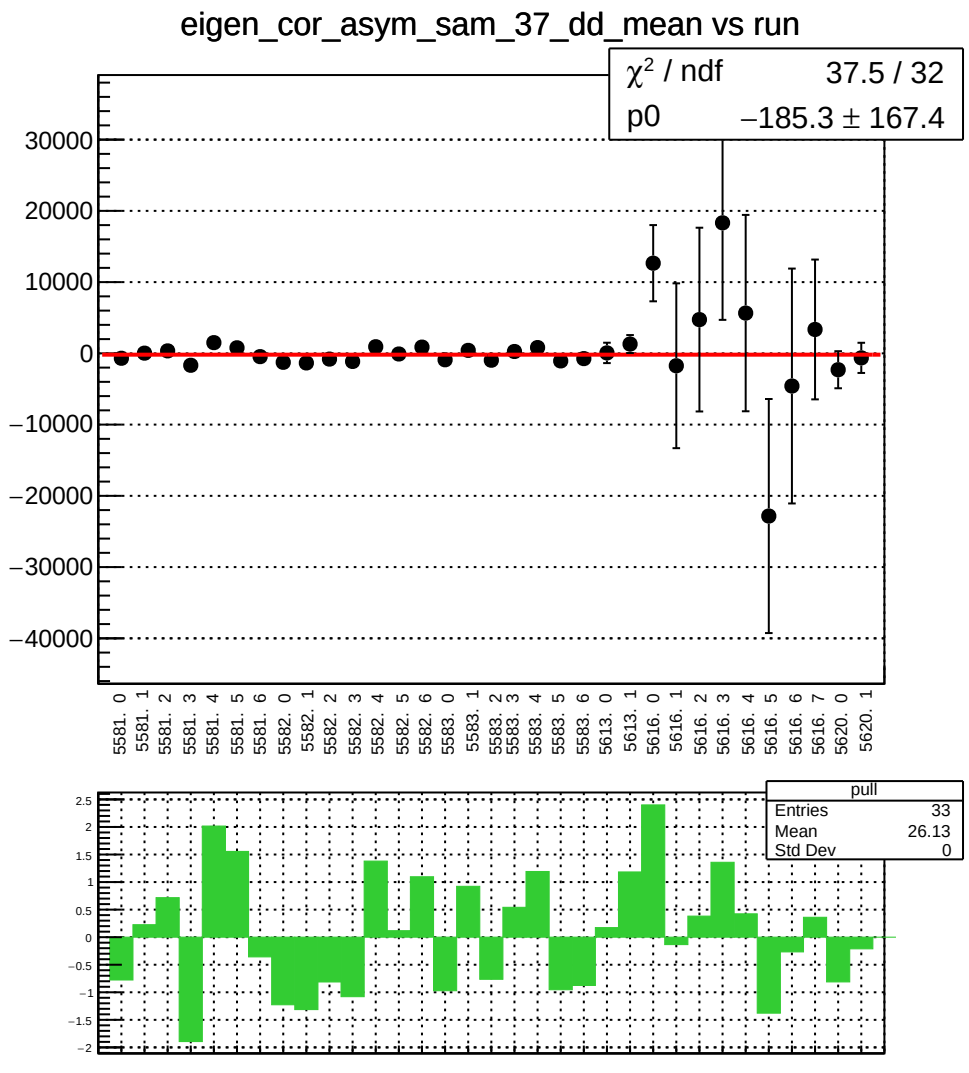

pull1D
Entries 33
Mean 0.06723
Std Dev 1.064
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

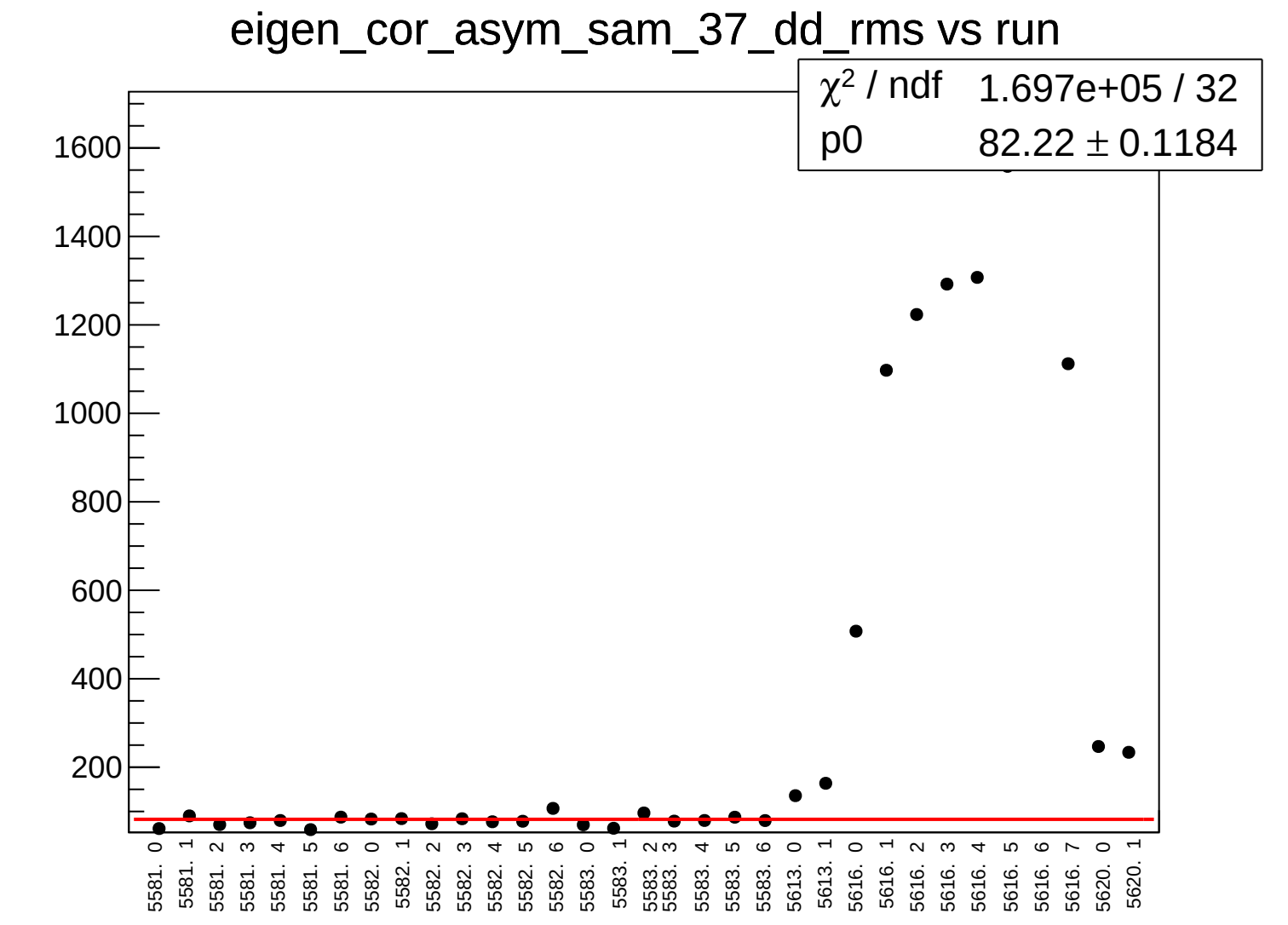

cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.697e+05 / 32
p0 82.22 ± 0.1184
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

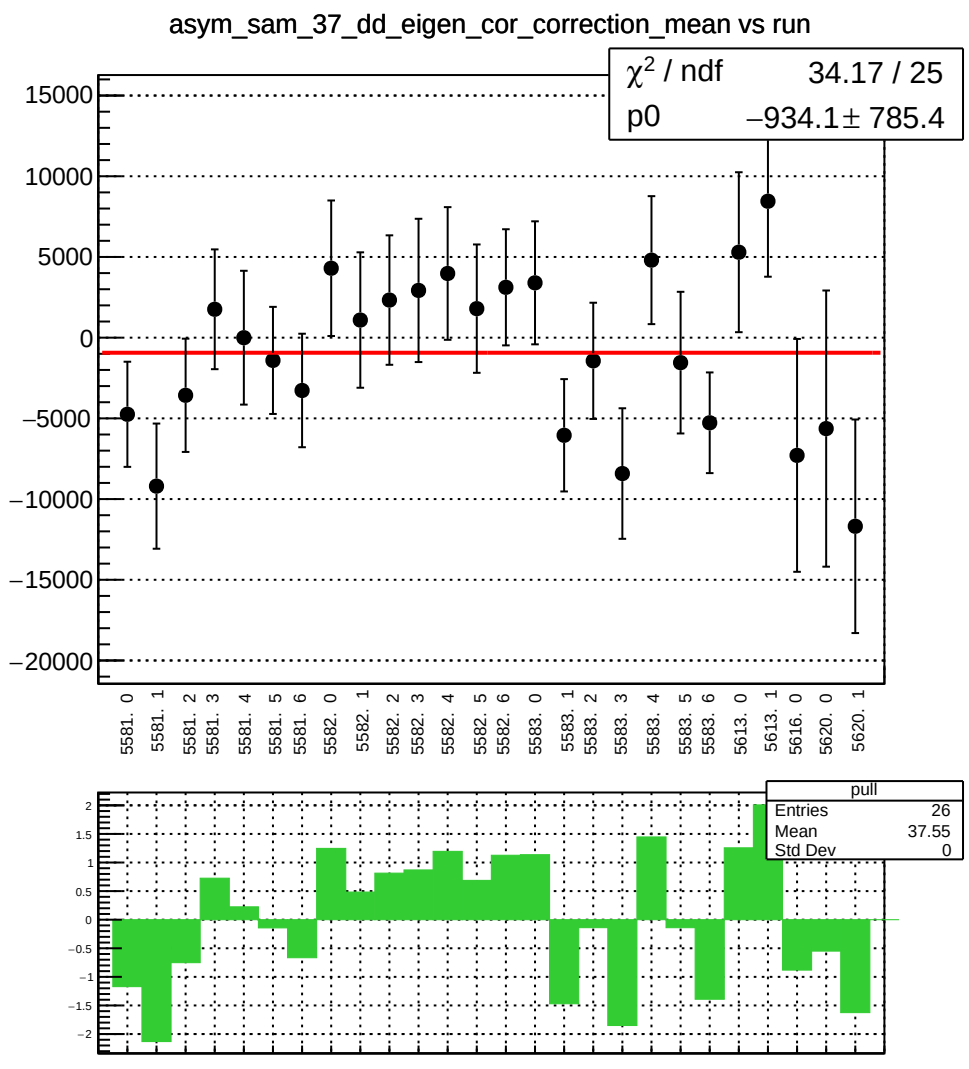

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 34.17 / 25
p0 −934.1± 785.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 37.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

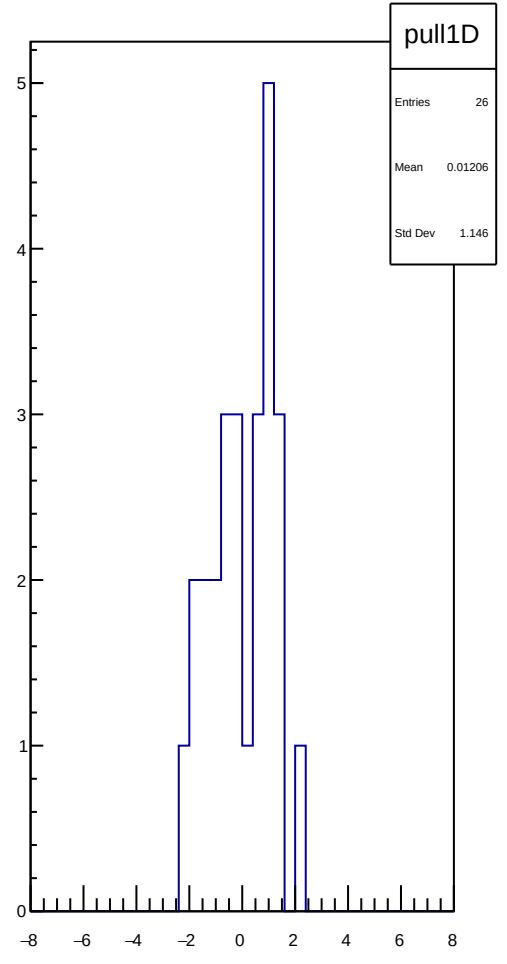

pull1D
Entries 26
Mean 0.01206
Std Dev 1.146
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

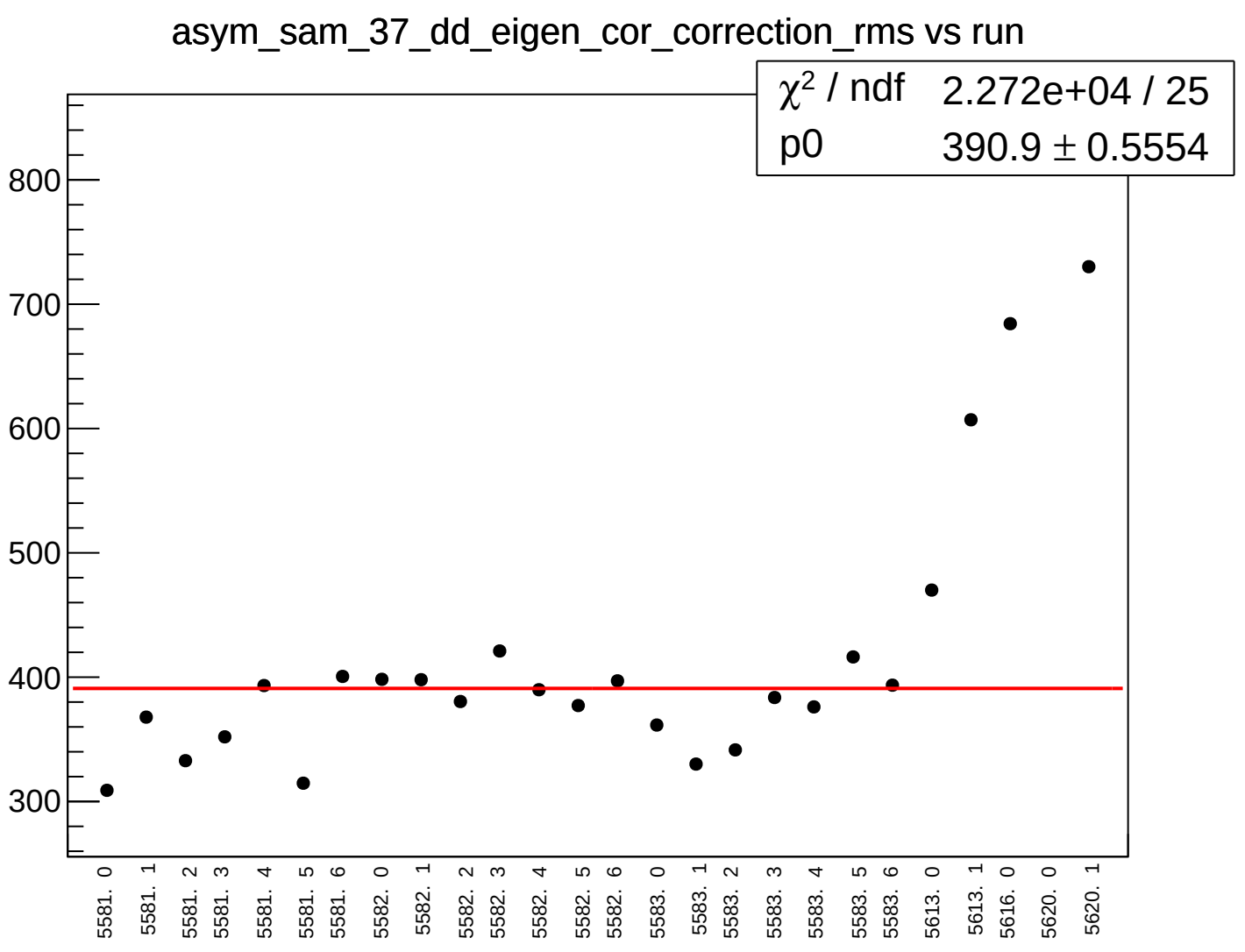

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 2.272e+04 / 25
p0 390.9 ± 0.5554
800
700
600
500
400
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

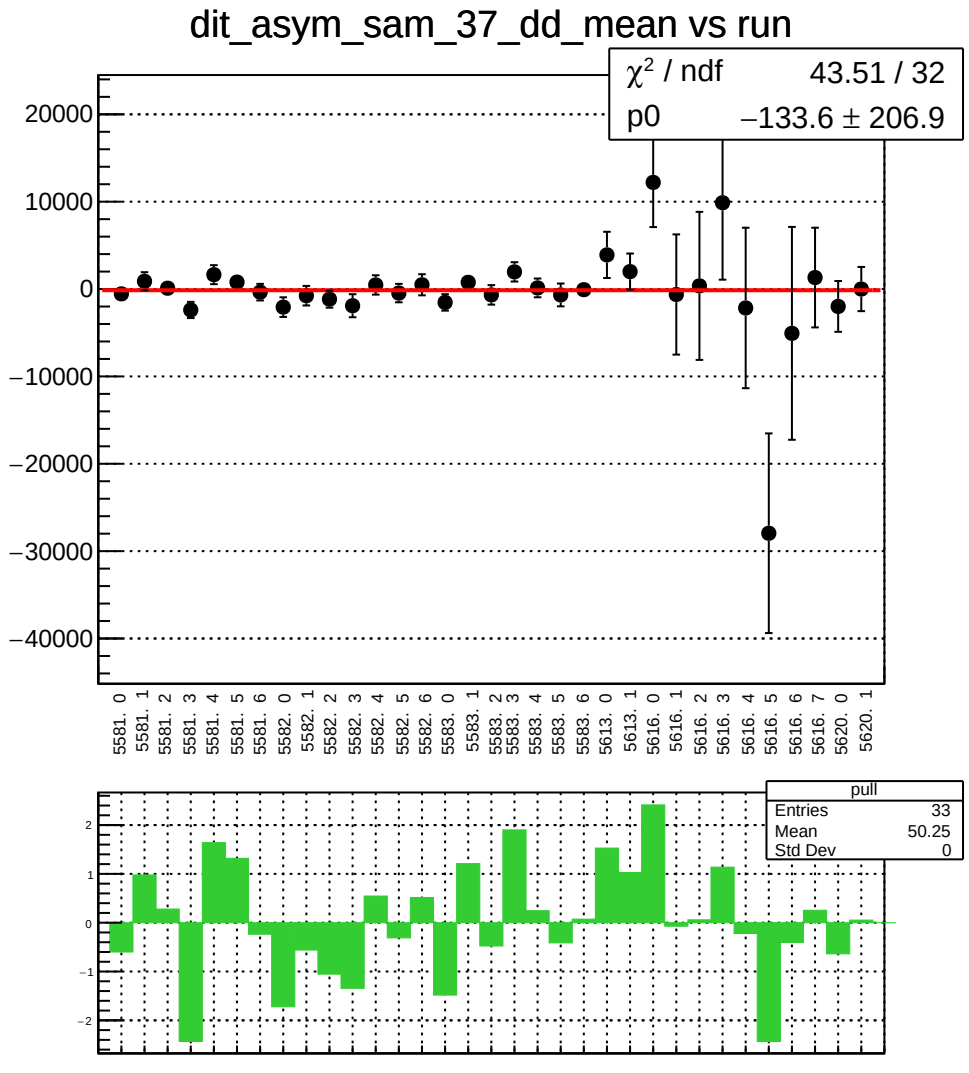

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 37.5 / 32
p0 −185.3 ± 167.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.13
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.06723
Std Dev 1.064
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

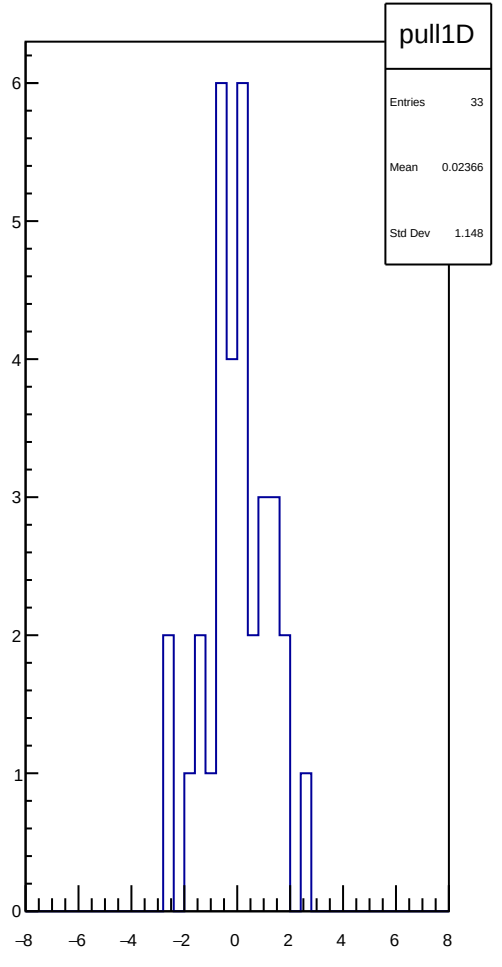

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.697e+05 / 32
p0 82.22 ± 0.1184
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

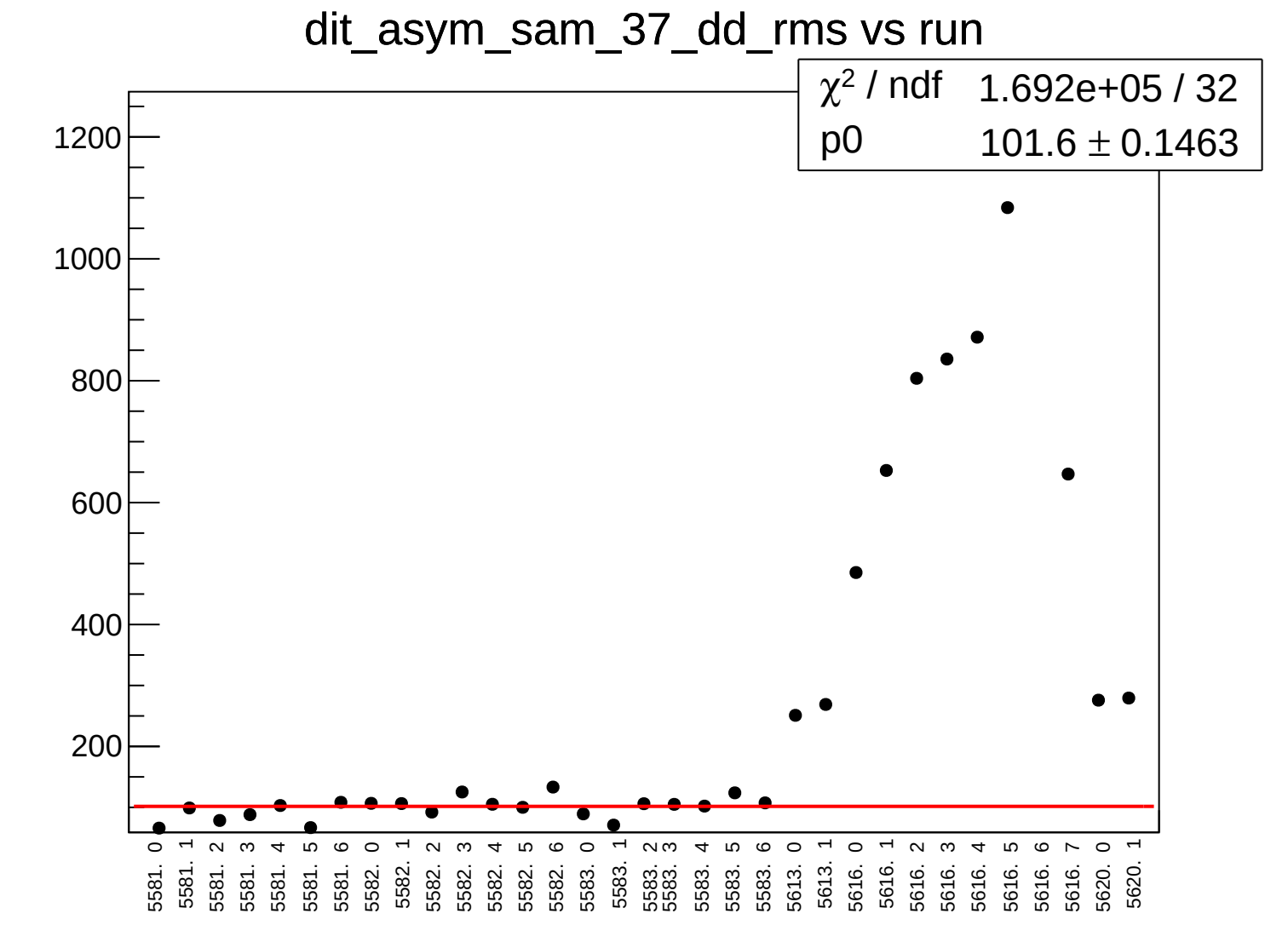

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 34.17 / 25
p0 −934.1± 785.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 37.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

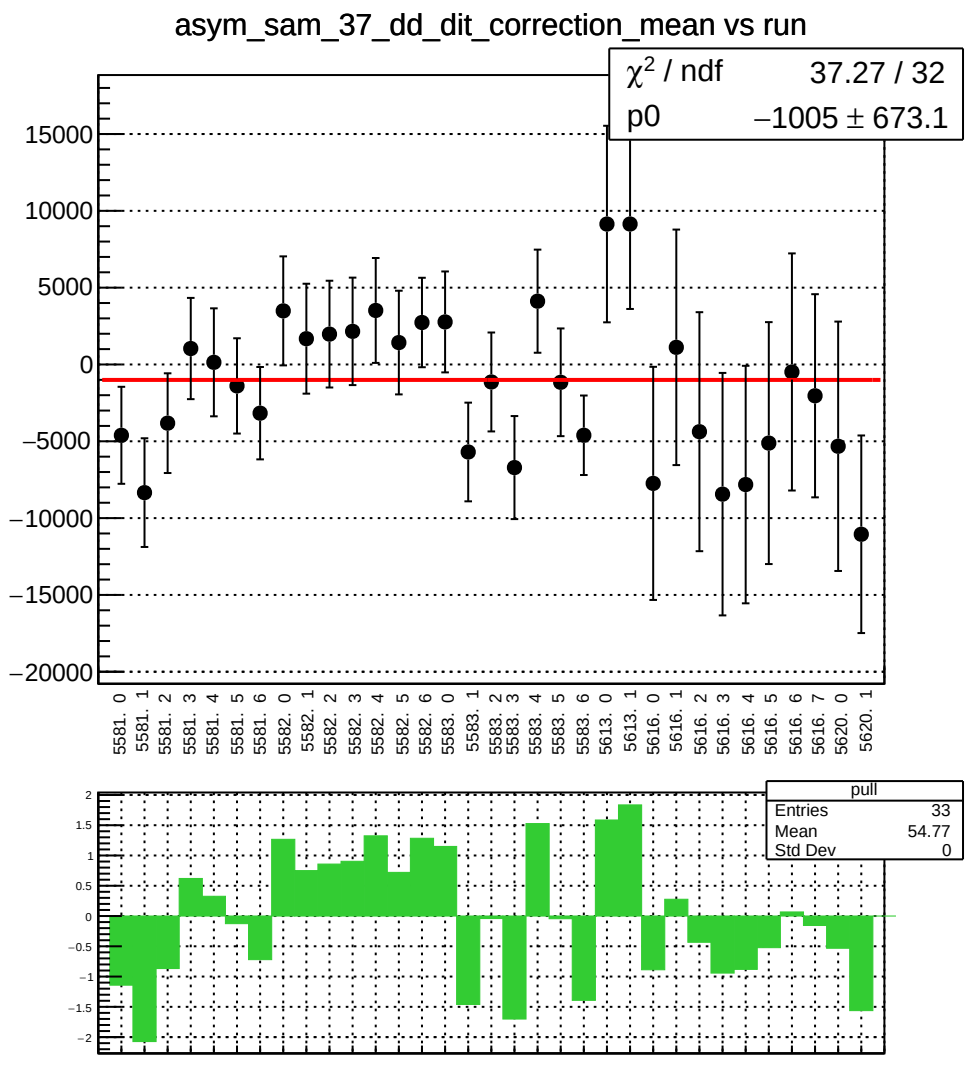

pull1D
Entries 26
Mean 0.01206
Std Dev 1.146
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

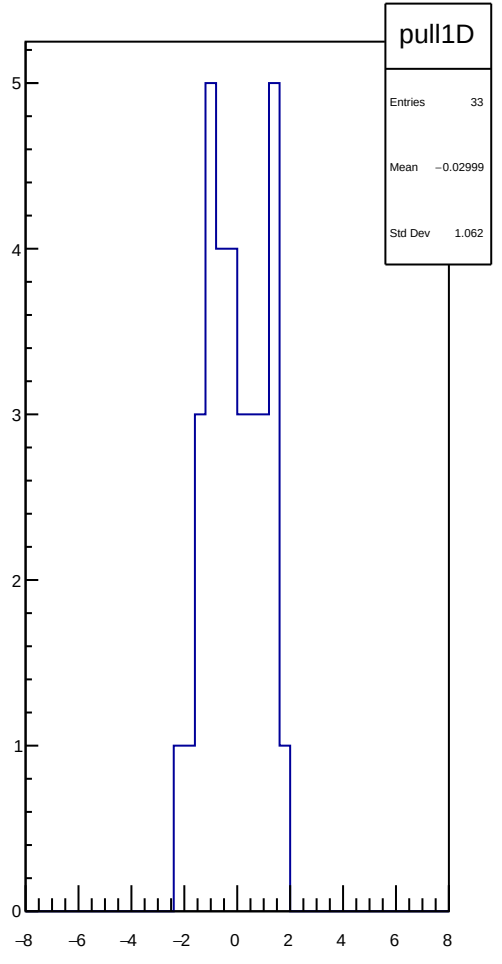

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.272e+04 / 25
p0 390.9 ± 0.5554
800
700
600
500
400
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

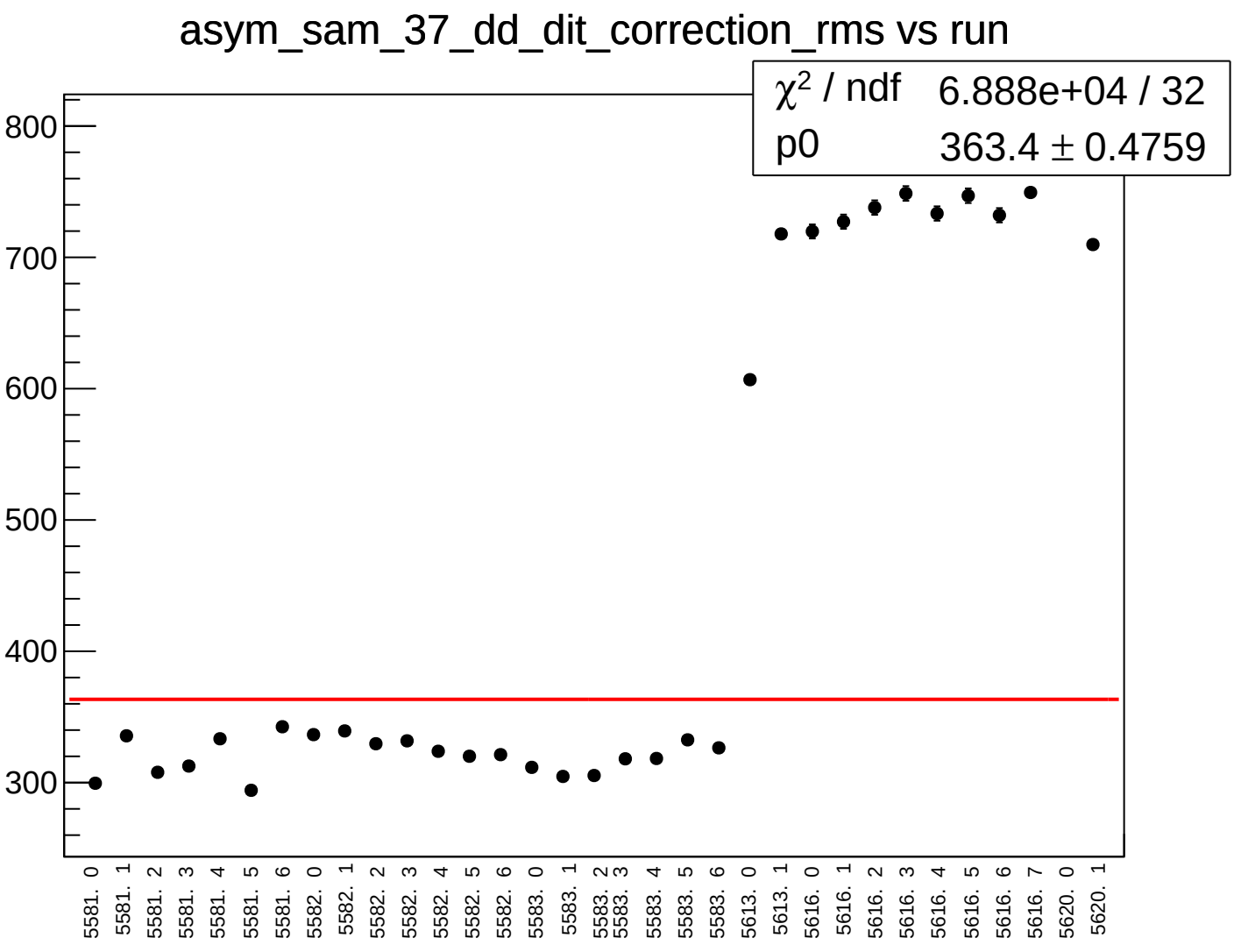

dit_asym_sam_37_dd_mean vs run
χ² / ndf 43.51 / 32
p0 −133.6 ± 206.9
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 50.25
Std Dev 0
2
1
0
−1
−2

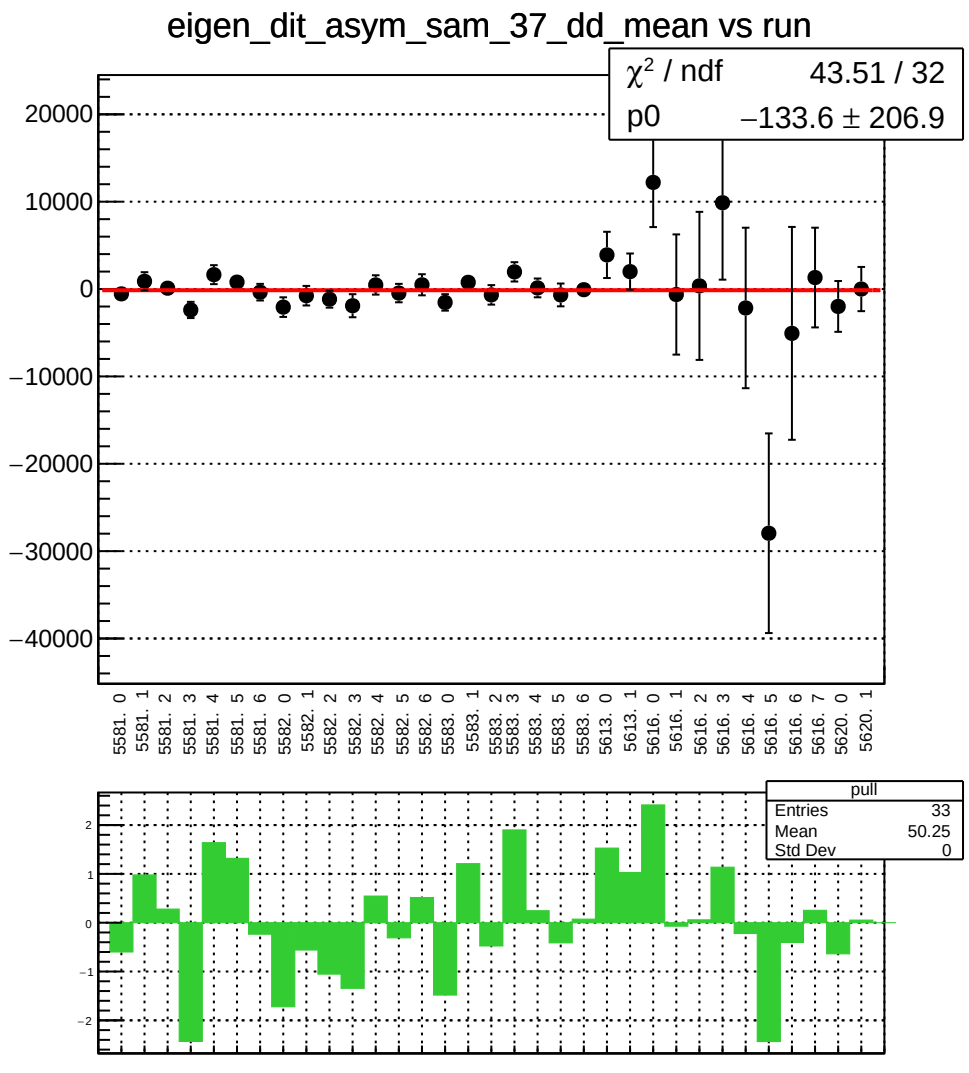

pull1D
Entries 33
Mean 0.02366
Std Dev 1.148
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

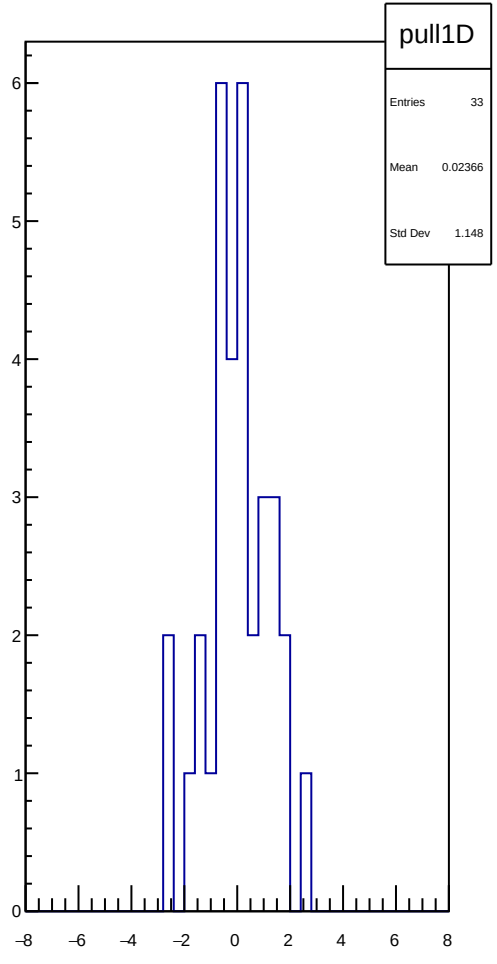

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.692e+05 / 32
p0 101.6 ± 0.1463
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

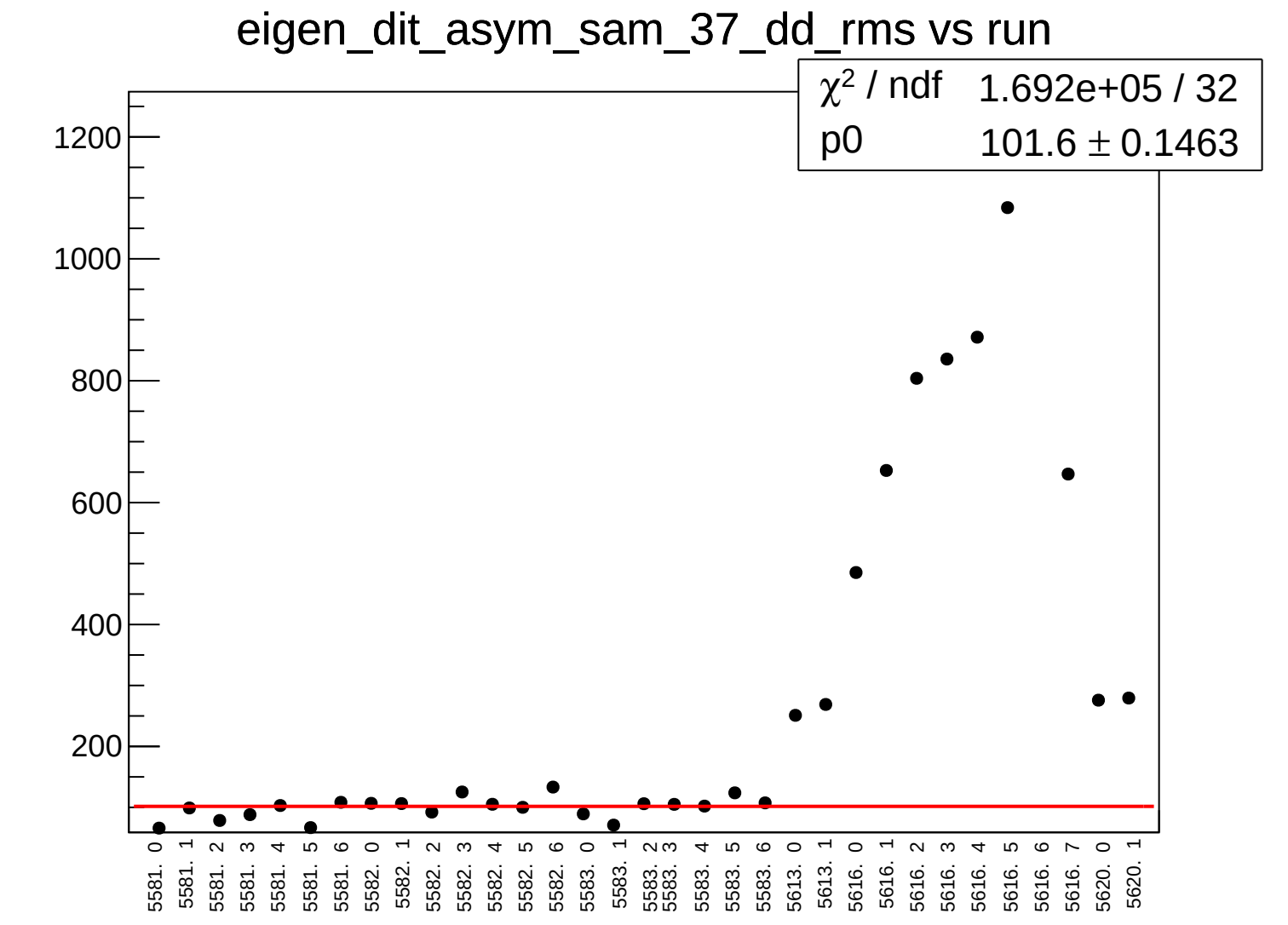

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 37.27 / 32
p0 −1005 ± 673.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 54.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

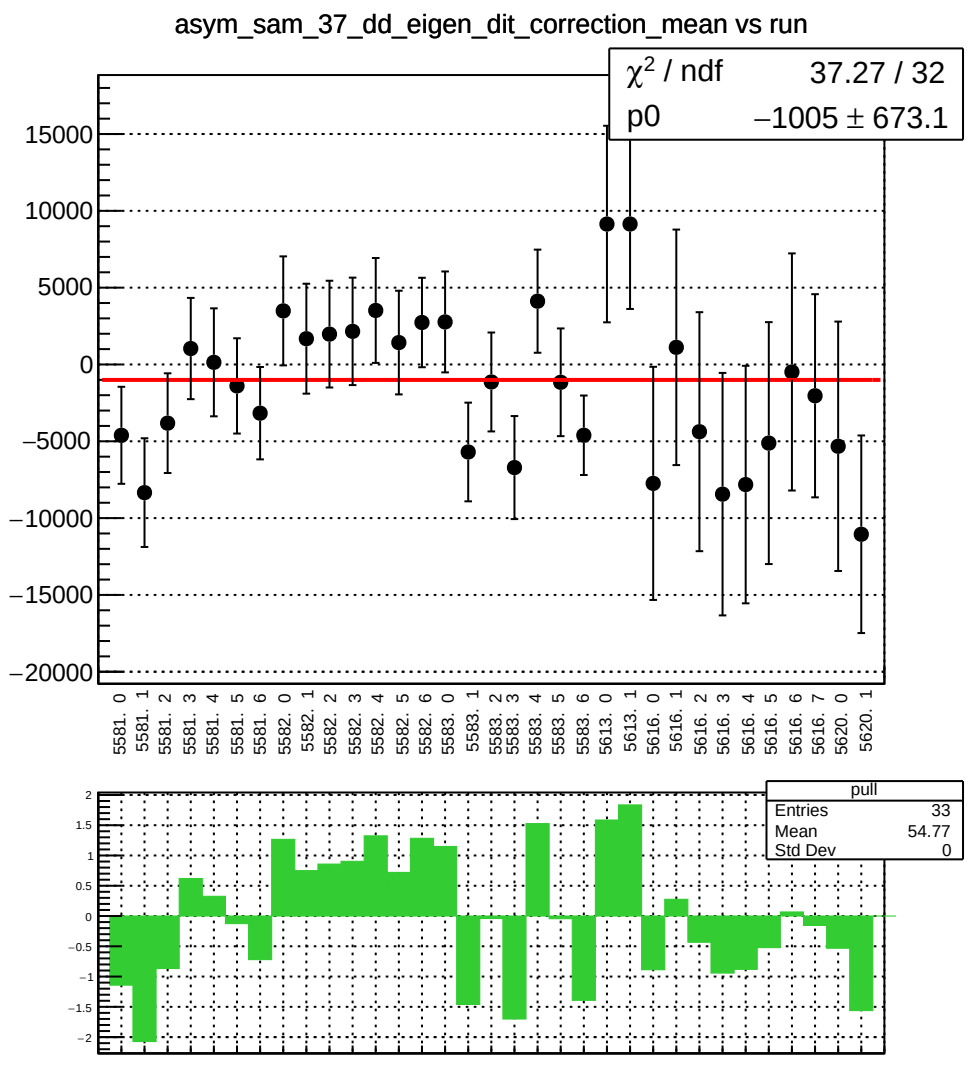

pull1D
Entries 33
Mean −0.02999
Std Dev 1.062
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

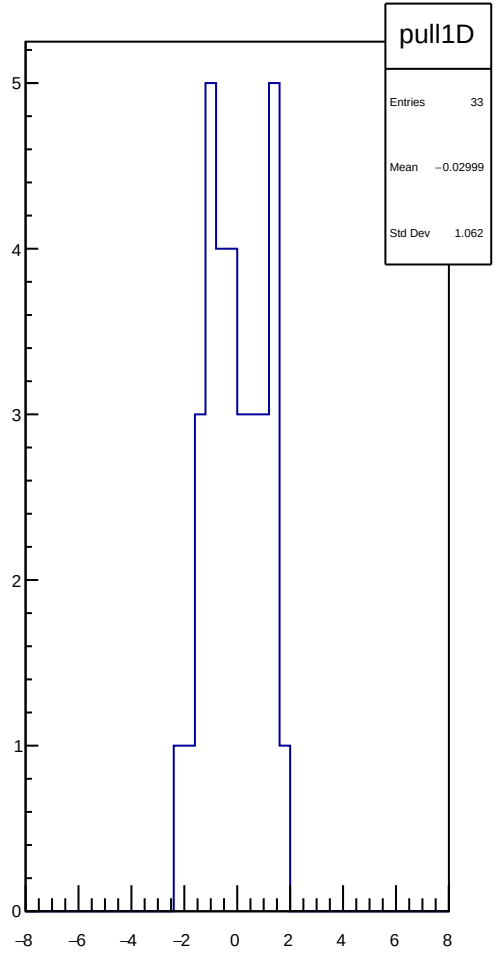

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 6.888e+04 / 32
p0 363.4 ± 0.4759
800
700
600
500
400
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

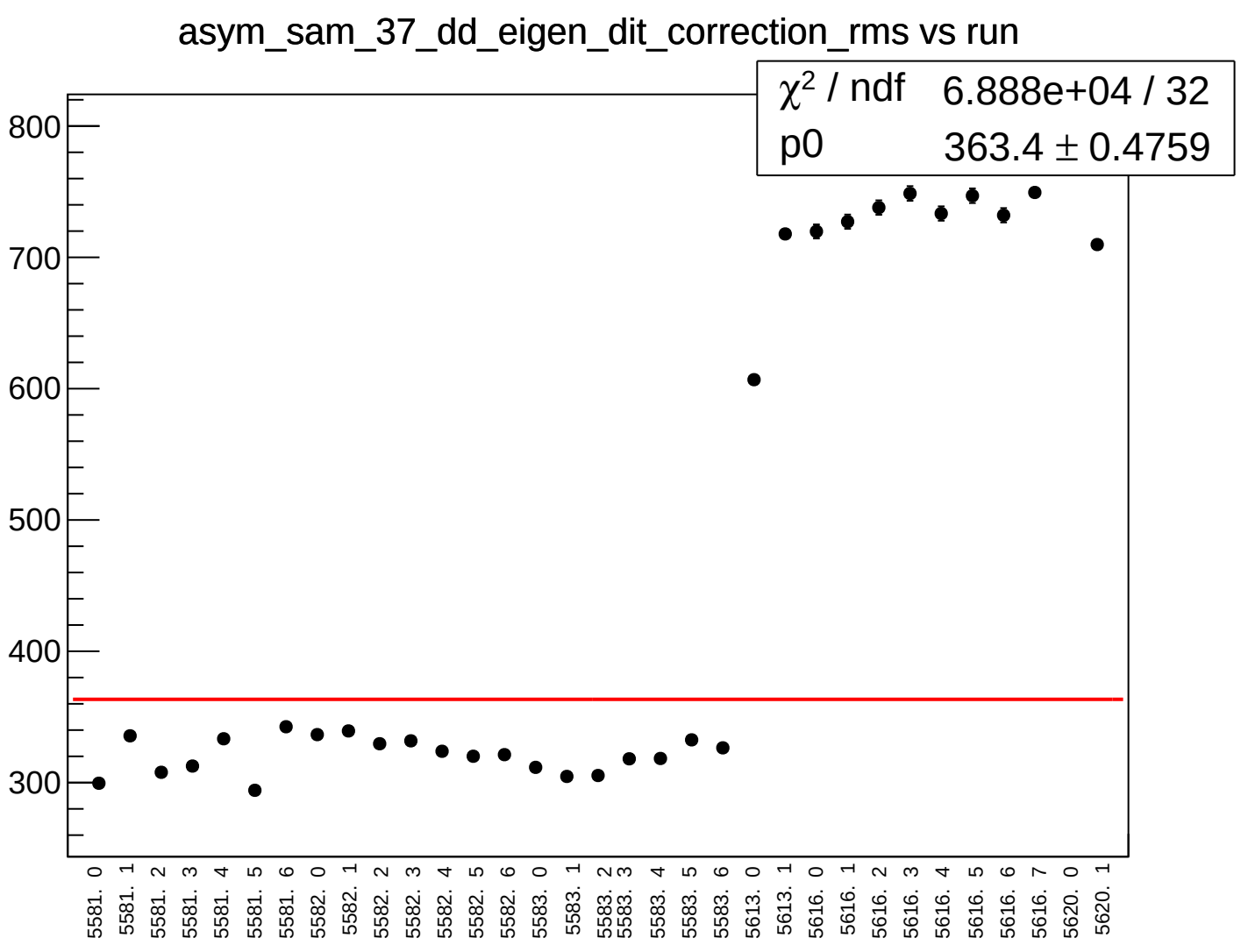

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 43.51 / 32
p0 −133.6 ± 206.9
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 50.25
Std Dev 0
2
1
0
−1
−2

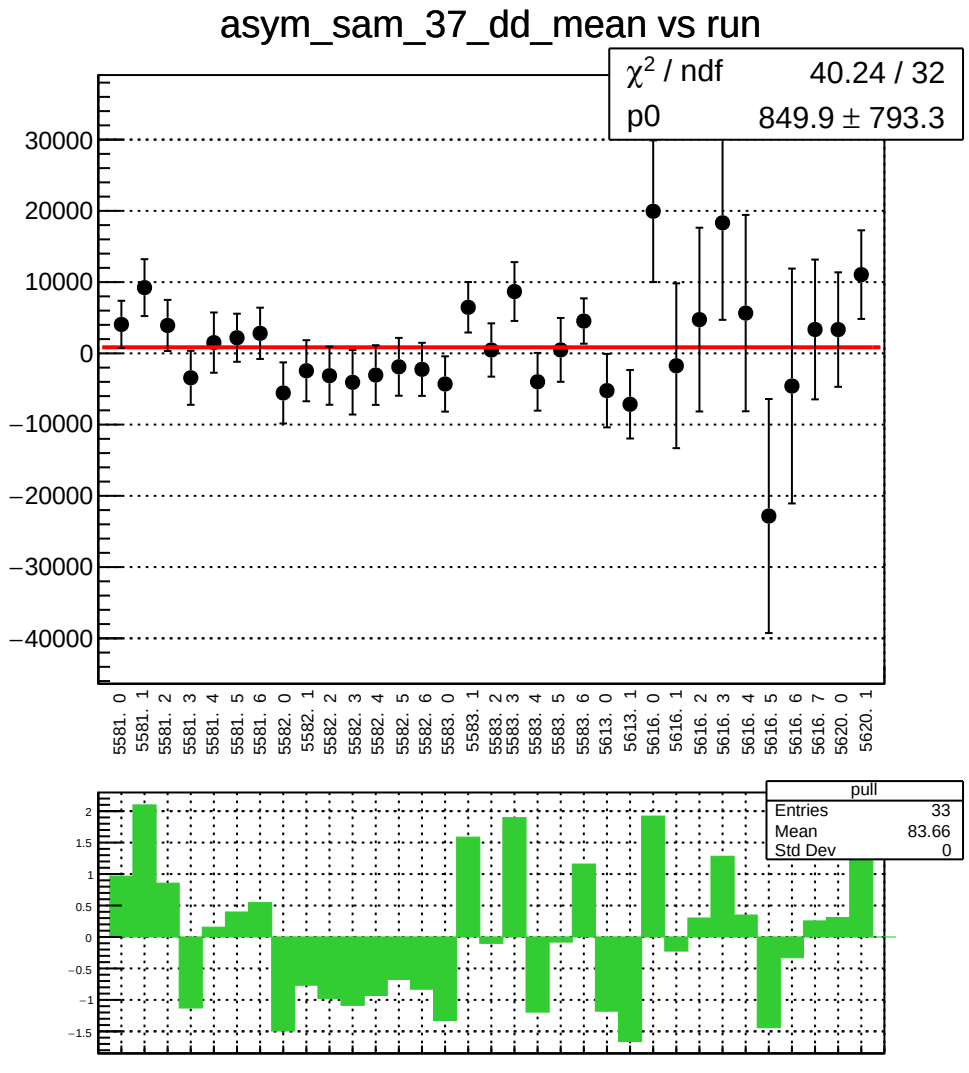

pull1D
Entries 33
Mean 0.02366
Std Dev 1.148
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

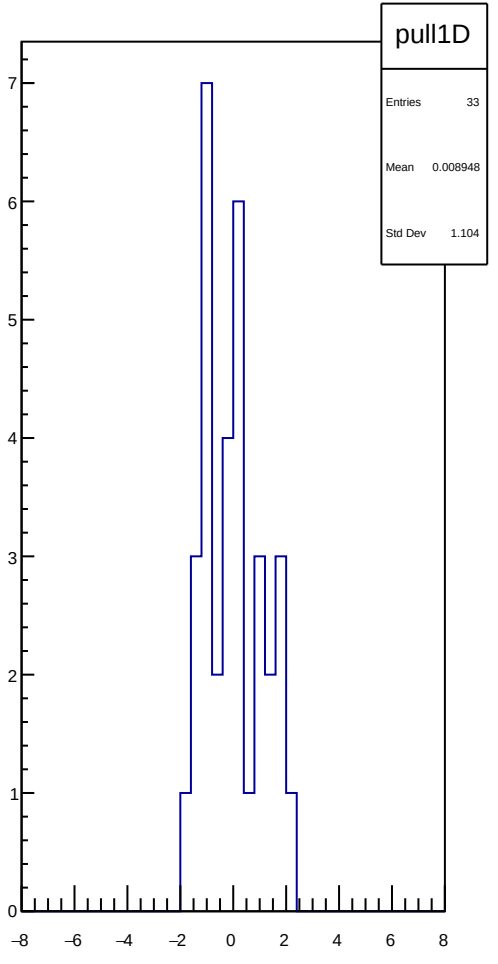

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.692e+05 / 32
p0 101.6 ± 0.1463
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

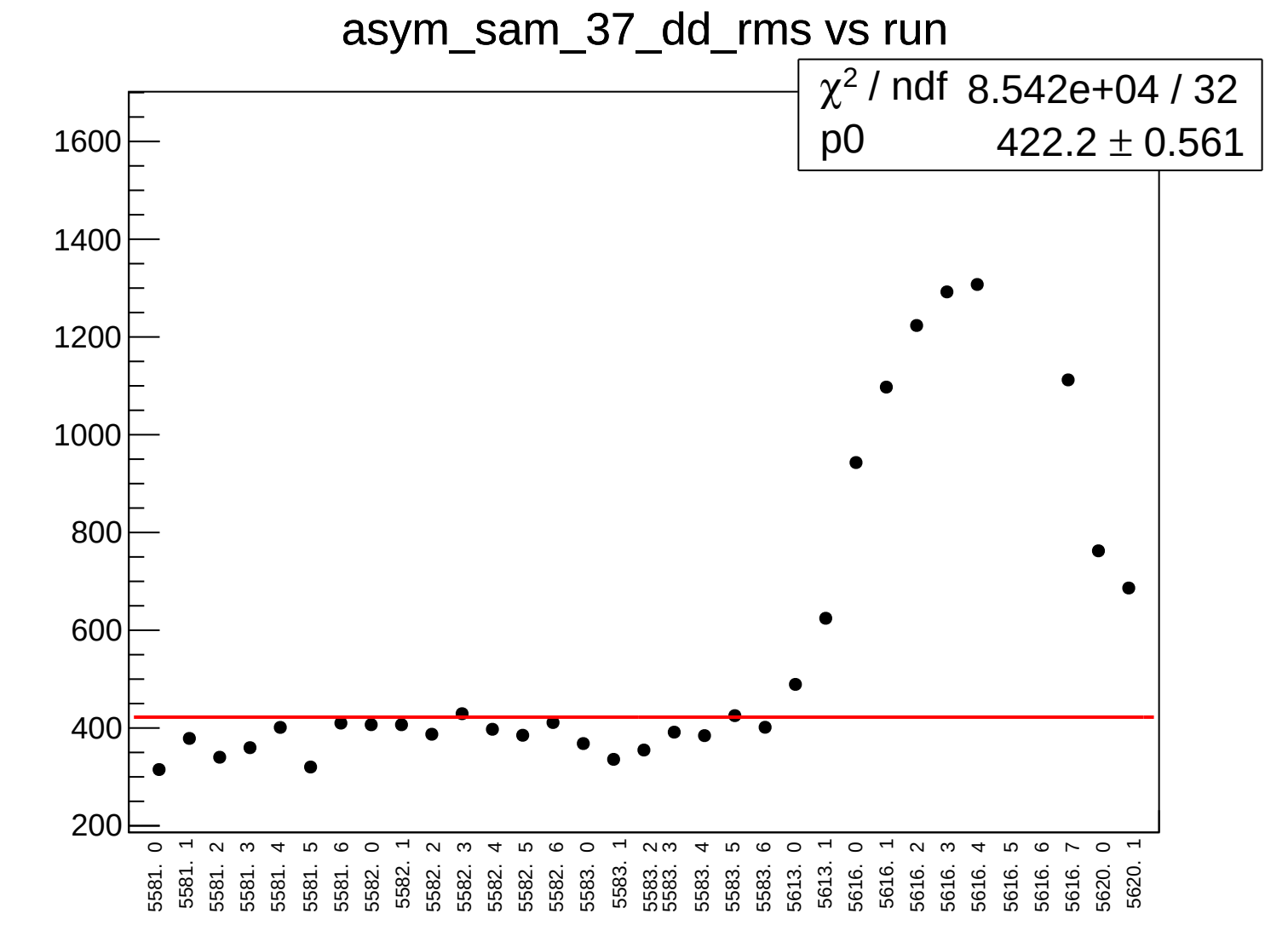

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 37.27 / 32
p0 −1005 ± 673.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 54.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

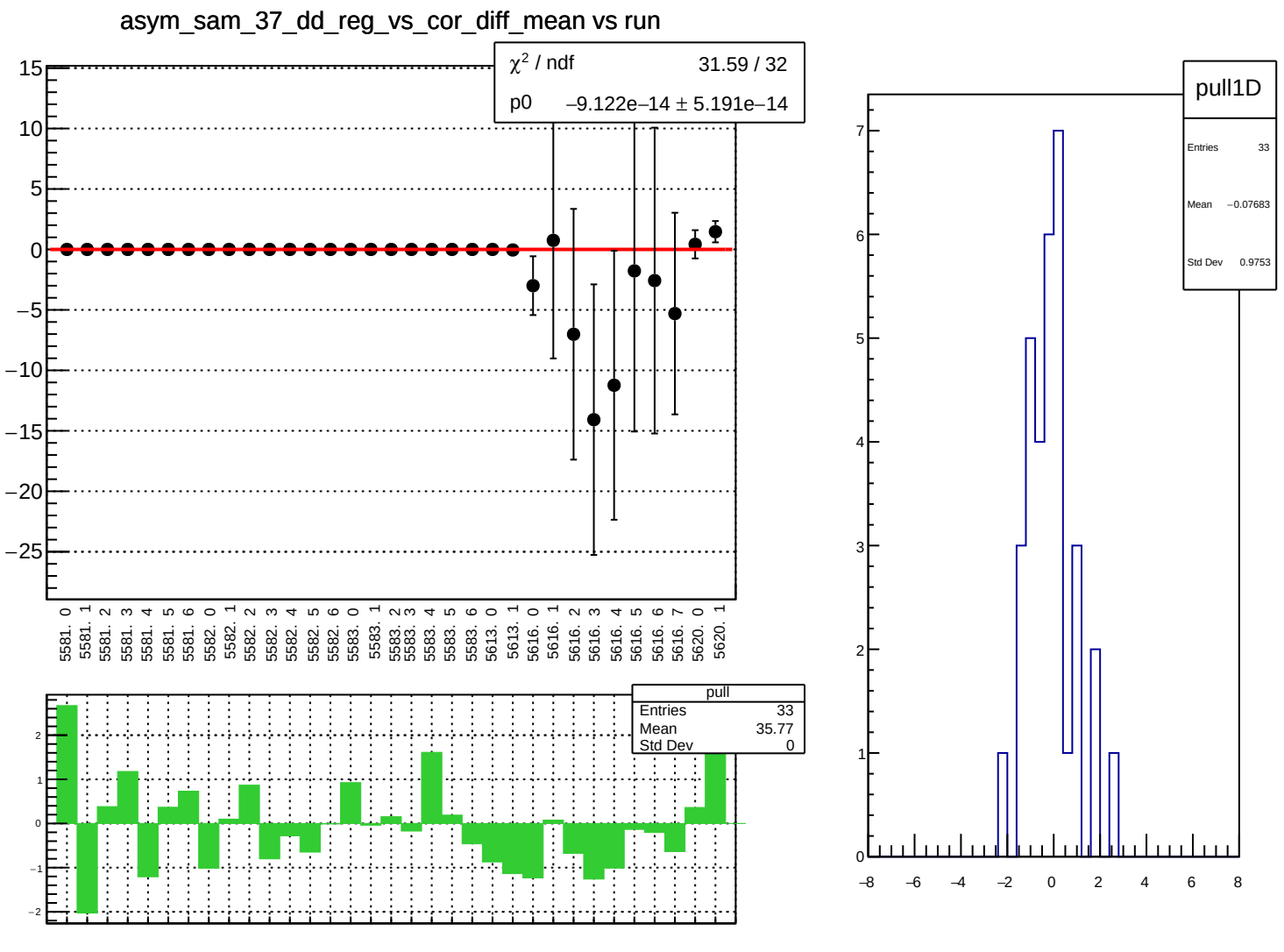

pull1D
Entries 33
Mean −0.02999
Std Dev 1.062
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

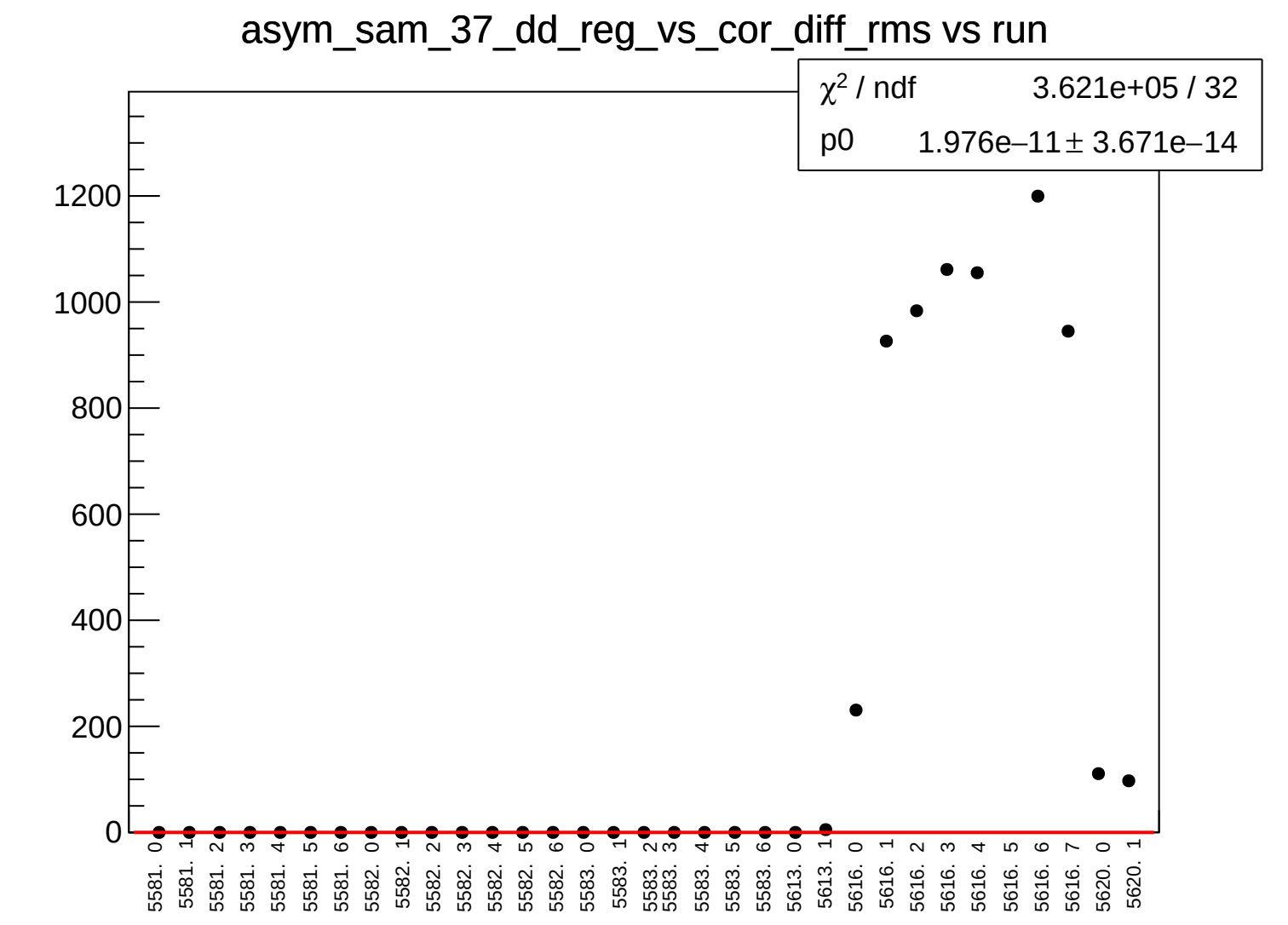

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.888e+04 / 32
p0 363.4 ± 0.4759
800
700
600
500
400
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

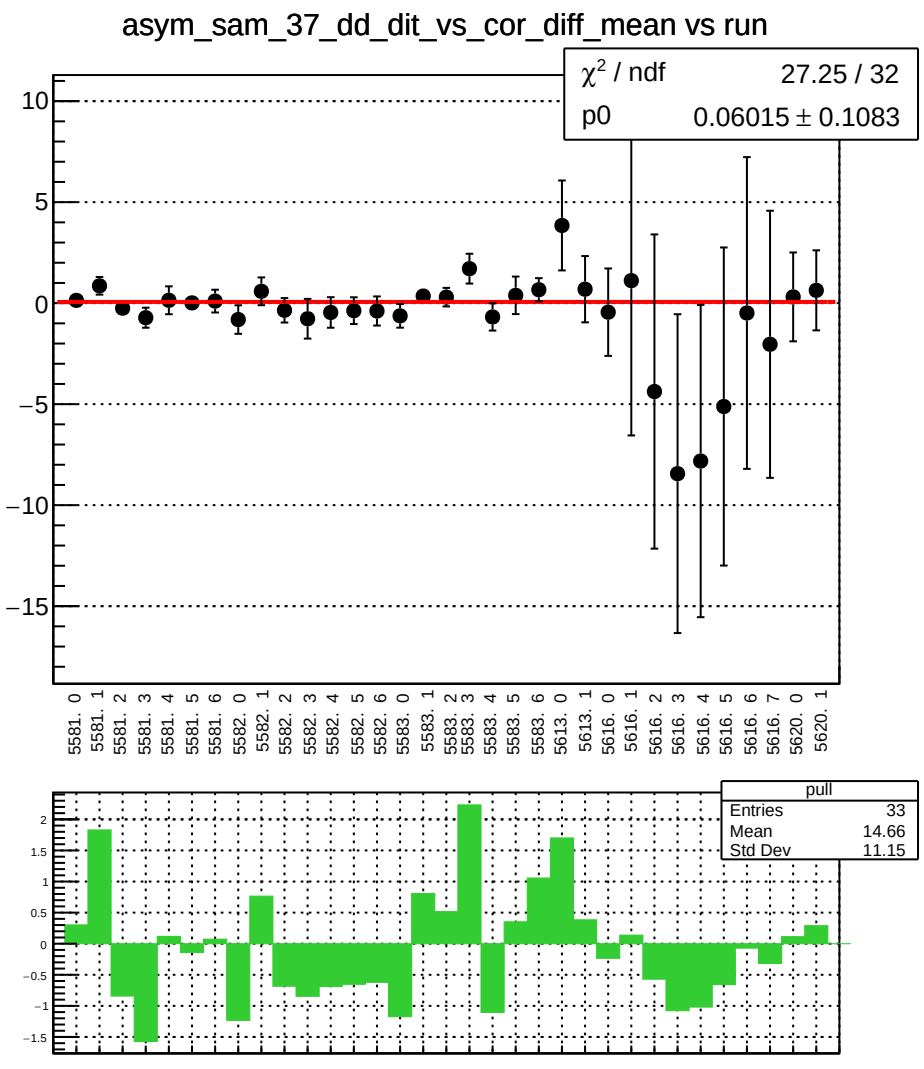

asym_sam_37_dd_mean vs run
χ² / ndf 40.24 / 32
p0 849.9 ± 793.3
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 83.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

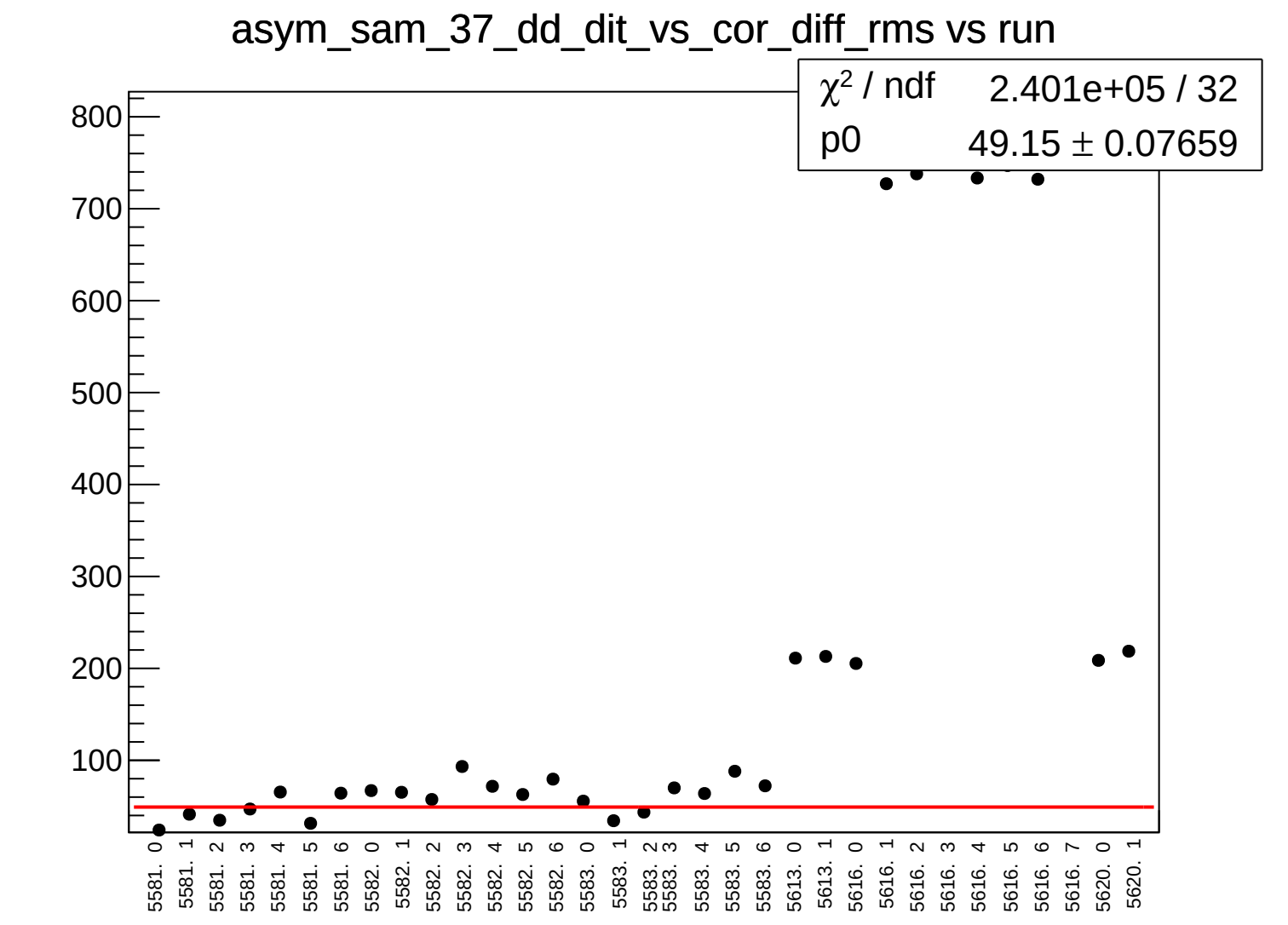

pull1D
Entries 33
Mean 0.008948
Std Dev 1.104
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

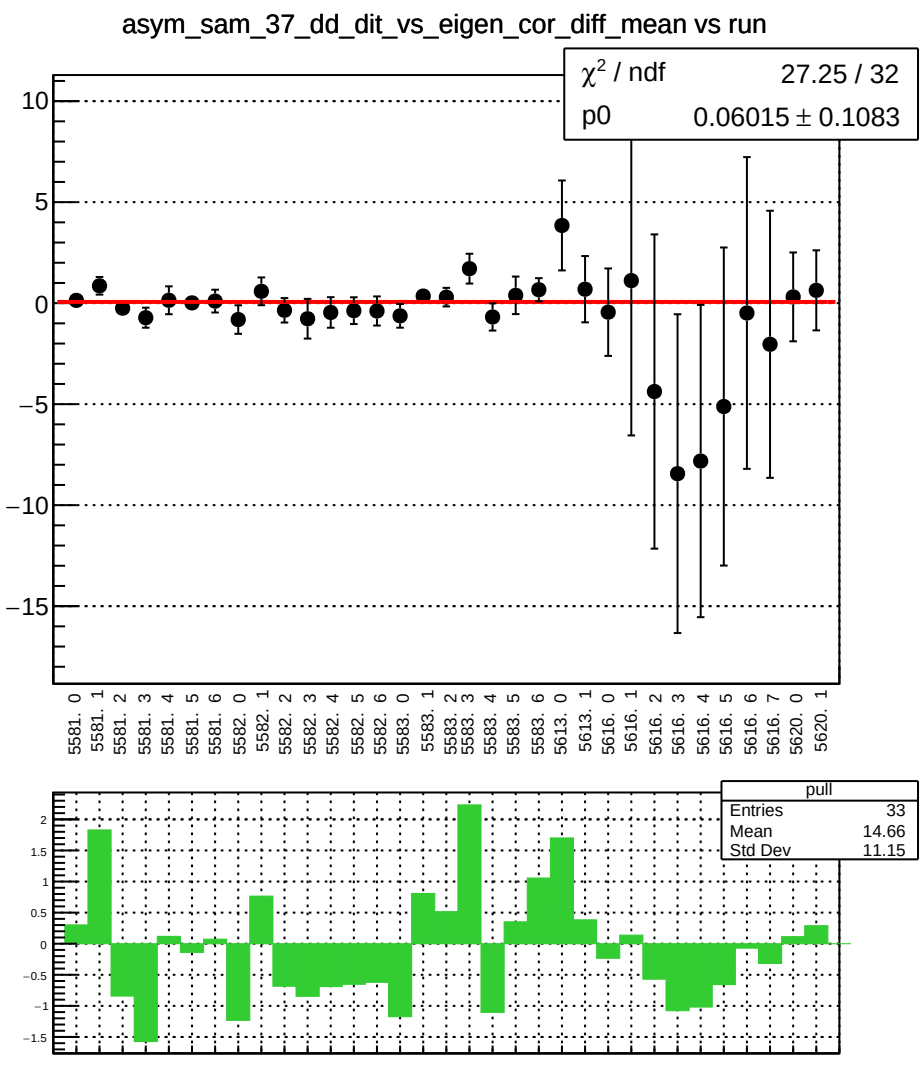

asym_sam_37_dd_rms vs run
χ² / ndf 8.542e+04 / 32
p0 422.2 ± 0.561
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

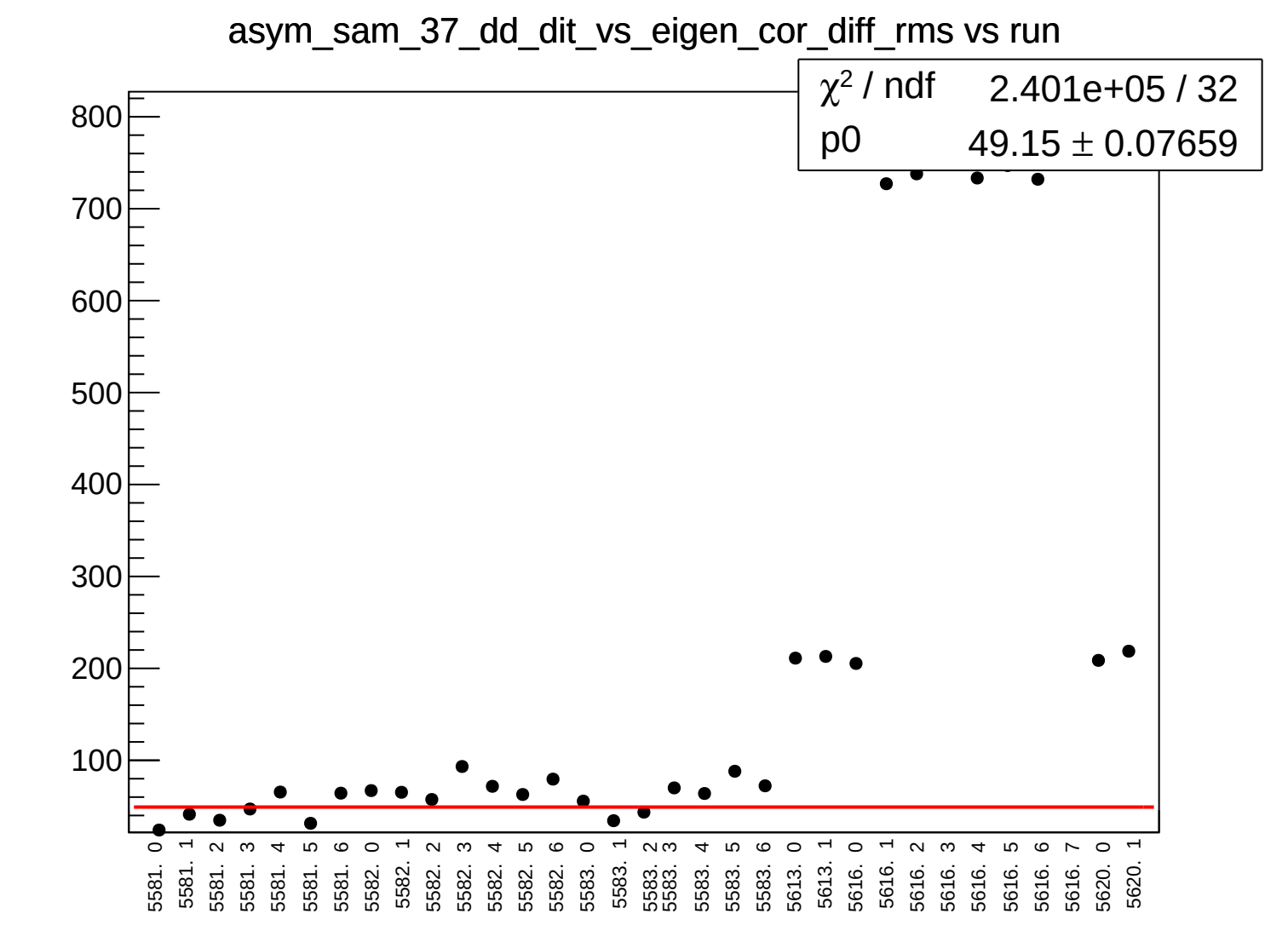

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 31.59 / 32
p0 −9.122e−14 ± 5.191e−14
15
10
5
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.77
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.07683
Std Dev 0.9753
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

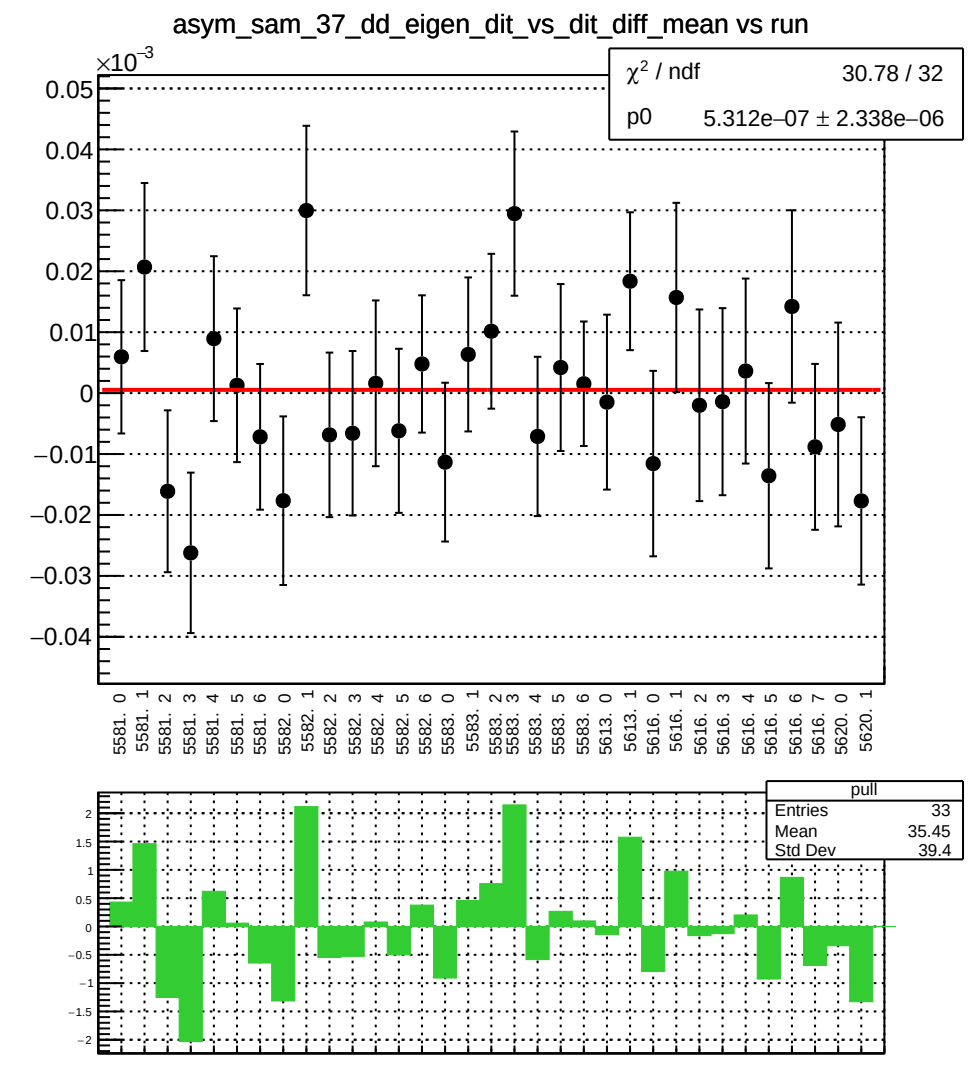

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.621e+05 / 32
p0 1.976e−11 ± 3.671e−14
0
200
400
600
800
1000
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

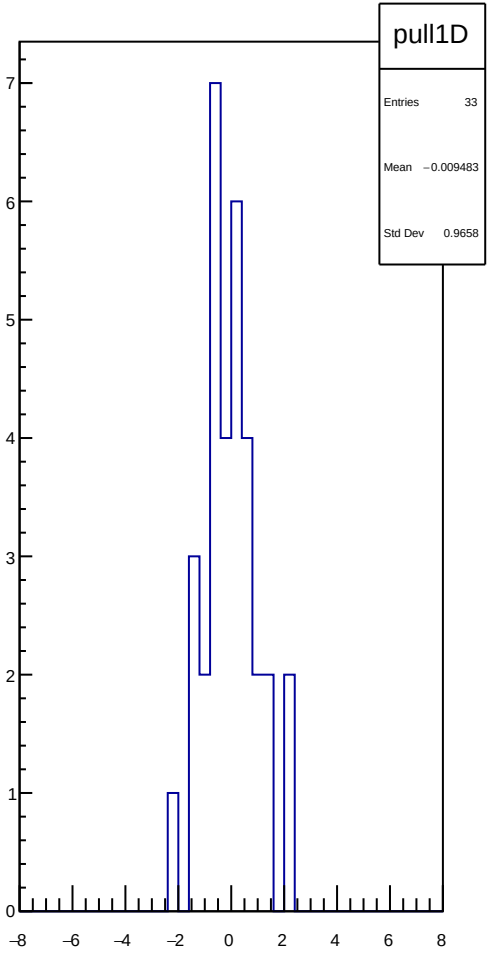

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 27.25 / 32
p0 0.06015 ± 0.1083
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 14.66
Std Dev 11.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.0857
Std Dev 0.9047
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

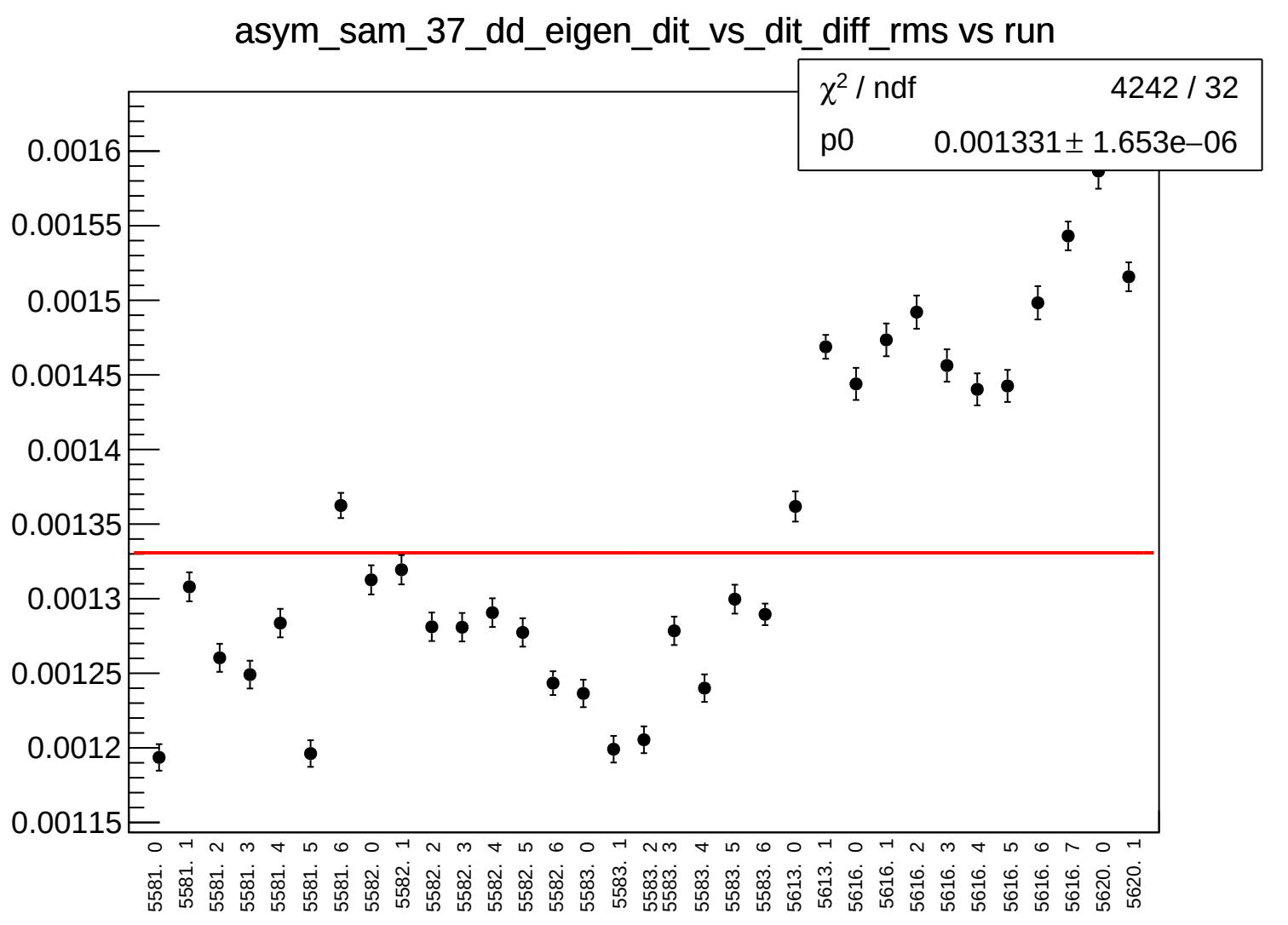

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.401e+05 / 32
p0 49.15 ± 0.07659
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

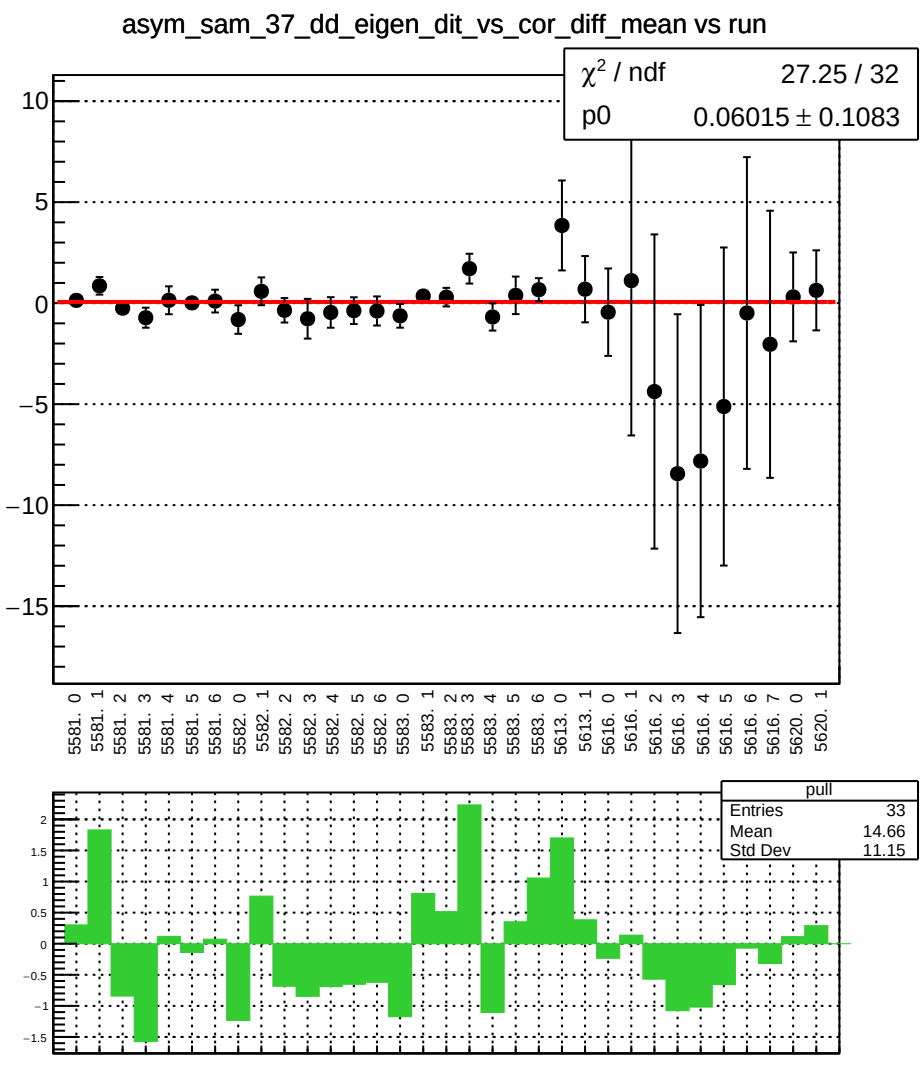

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.25 / 32
p0 0.06015 ± 0.1083
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 14.66
Std Dev 11.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.0857
Std Dev 0.9047
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

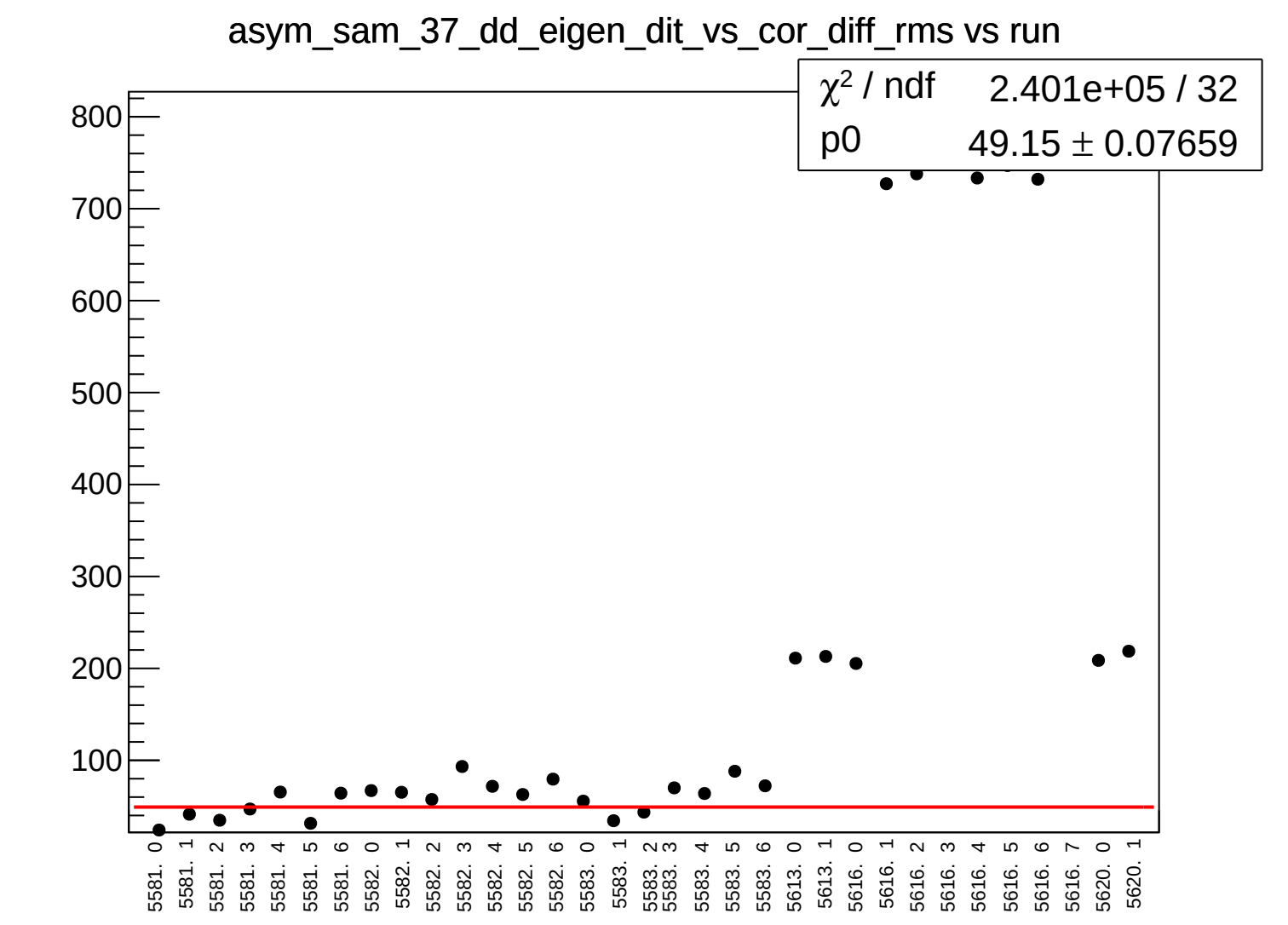

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.401e+05 / 32
p0 49.15 ± 0.07659
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

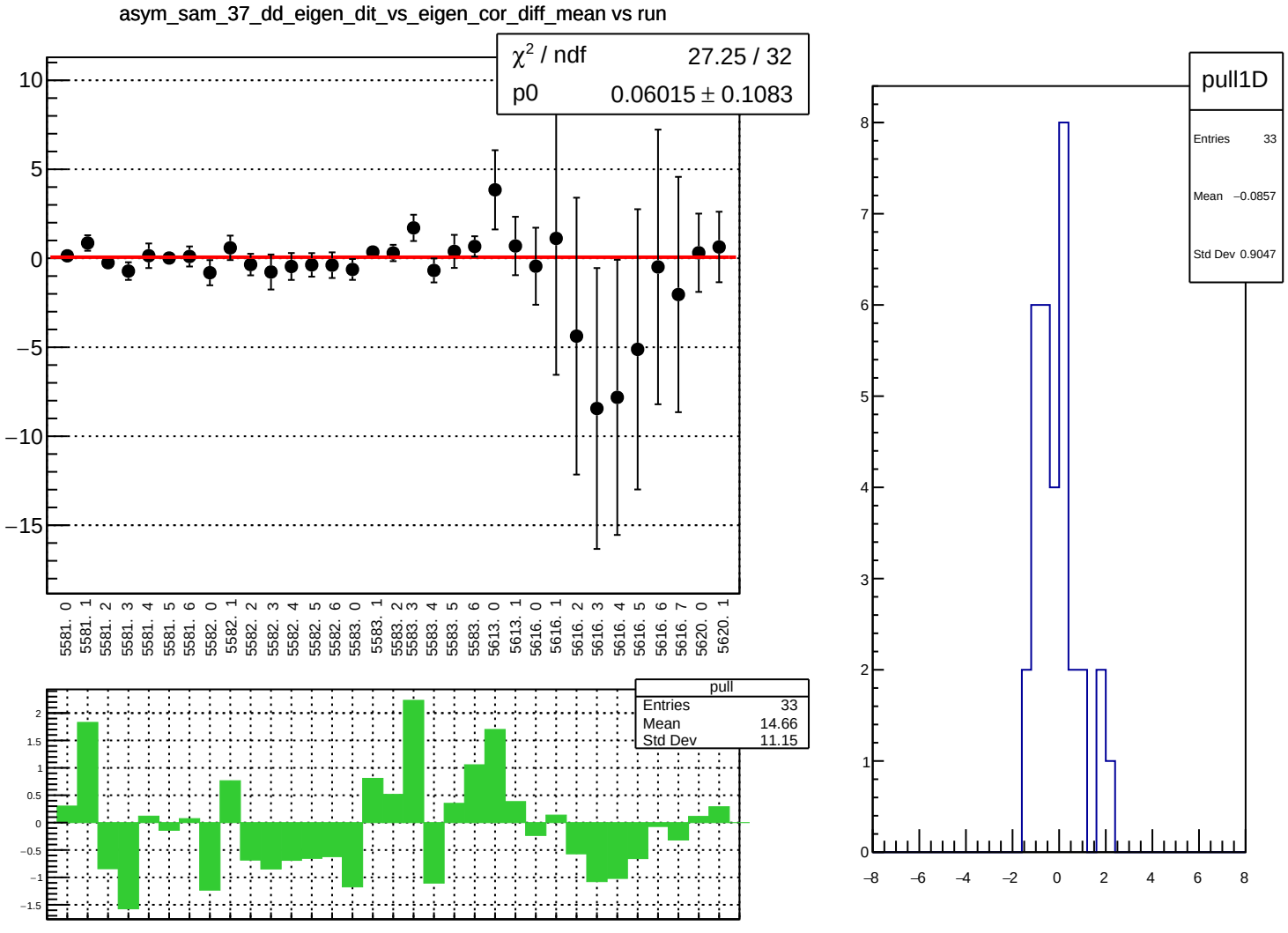

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.78 / 32
p0 5.312e−07 ± 2.338e−06
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.45
Std Dev 39.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

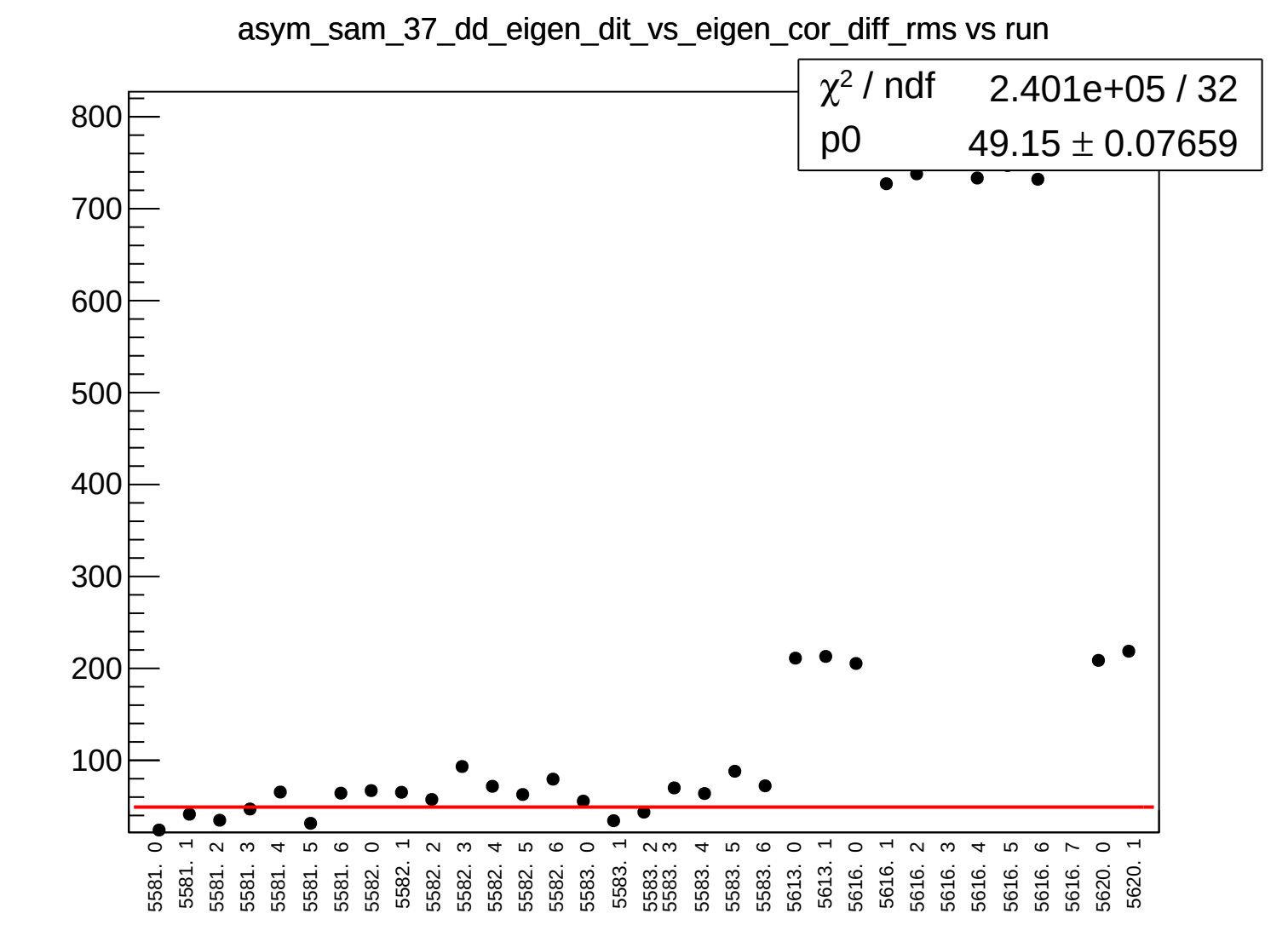

pull1D
Entries 33
Mean −0.009483
Std Dev 0.9658
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

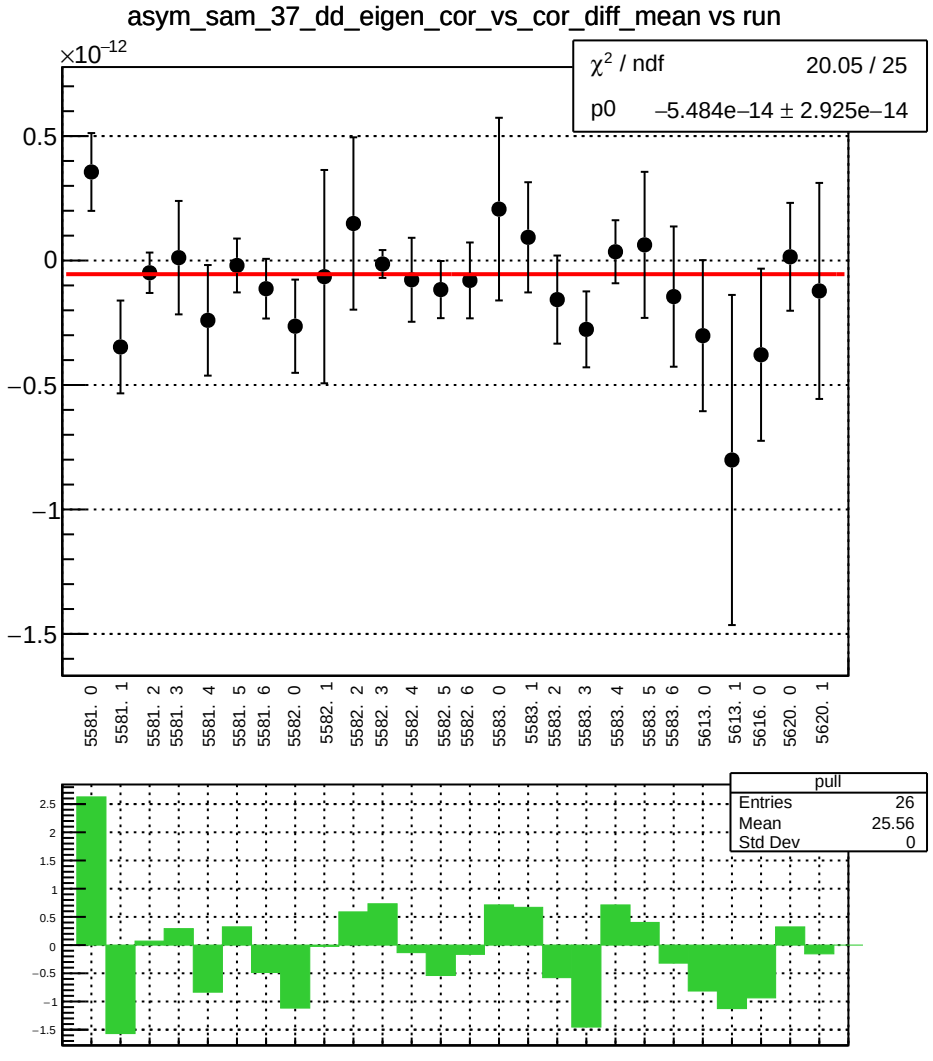

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4242 / 32
p0 0.001331 ± 1.653e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

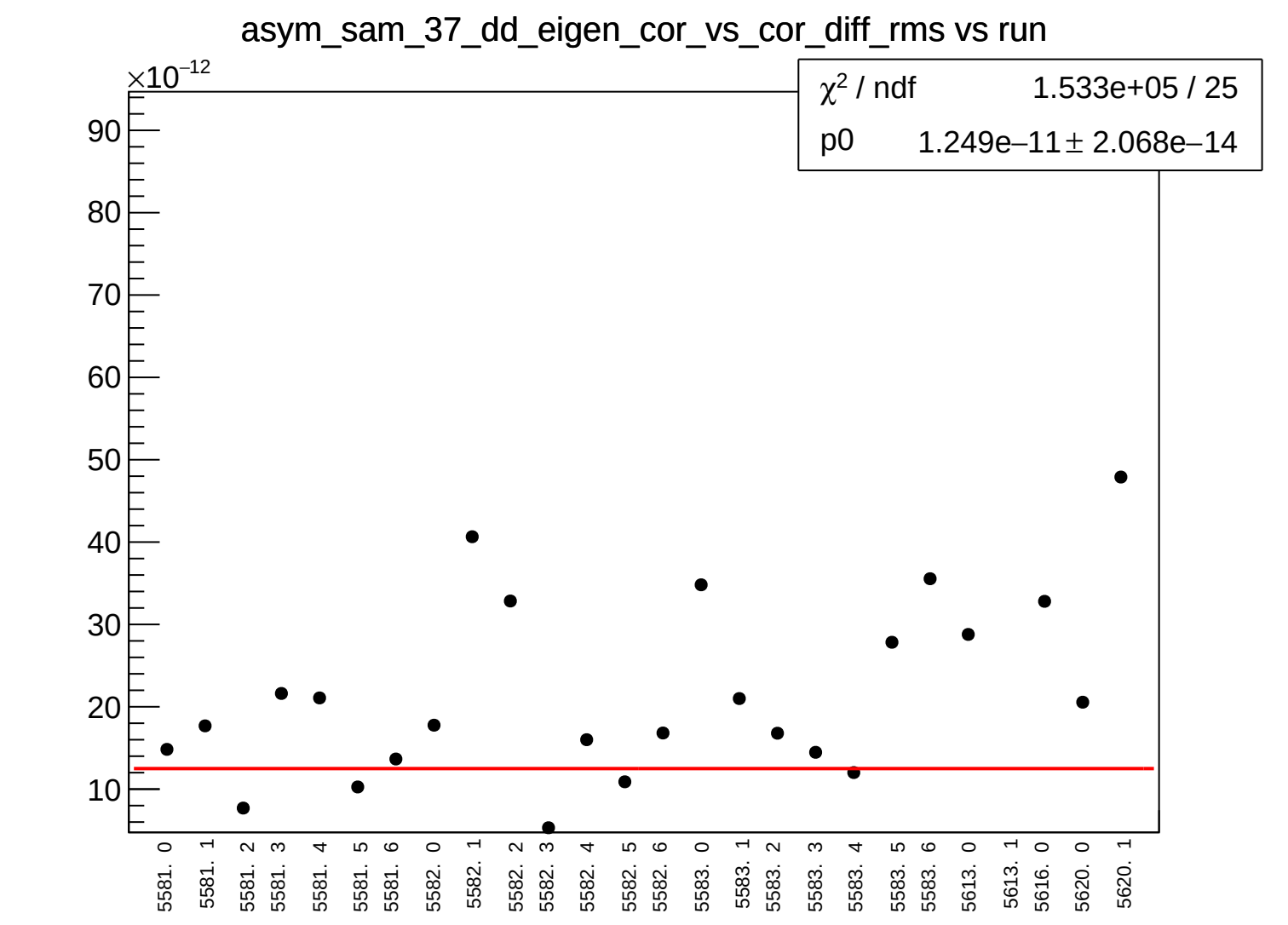

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.25 / 32
p0 0.06015 ± 0.1083
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 14.66
Std Dev 11.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.0857
Std Dev 0.9047
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

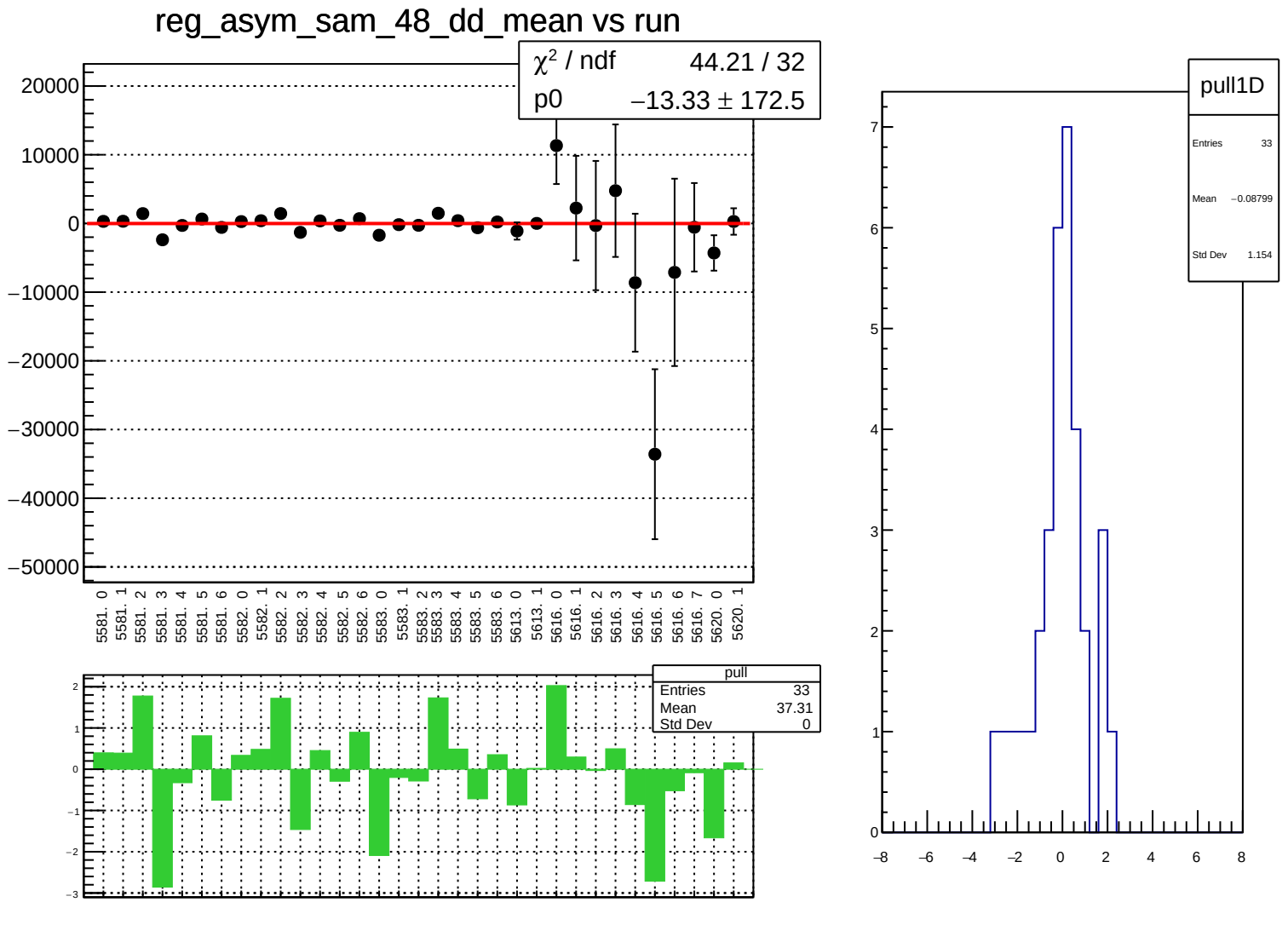

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.401e+05 / 32
p0 49.15 ± 0.07659
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

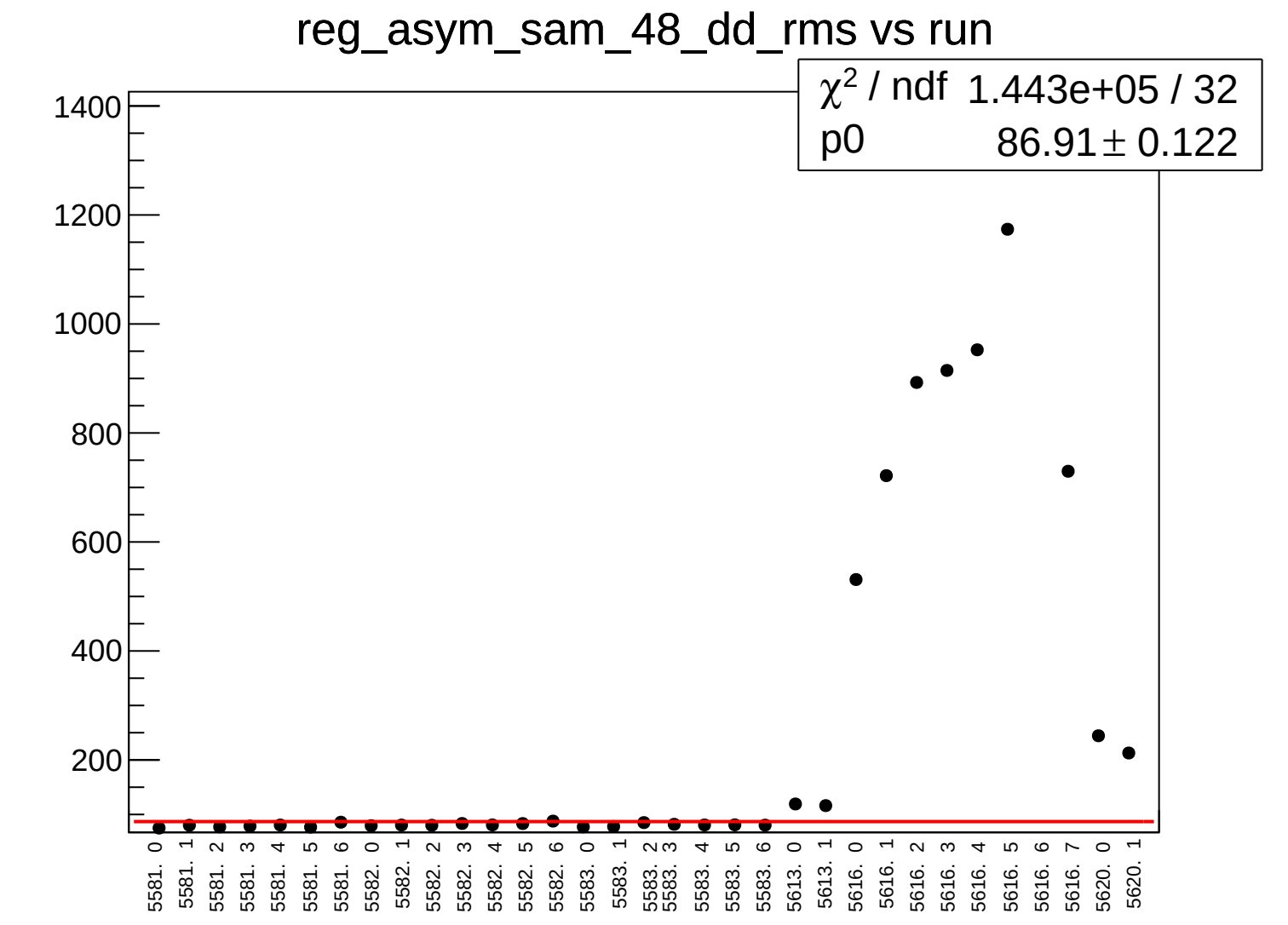

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.25 / 32
p0 0.06015 ± 0.1083
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 14.66
Std Dev 11.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.0857
Std Dev 0.9047
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

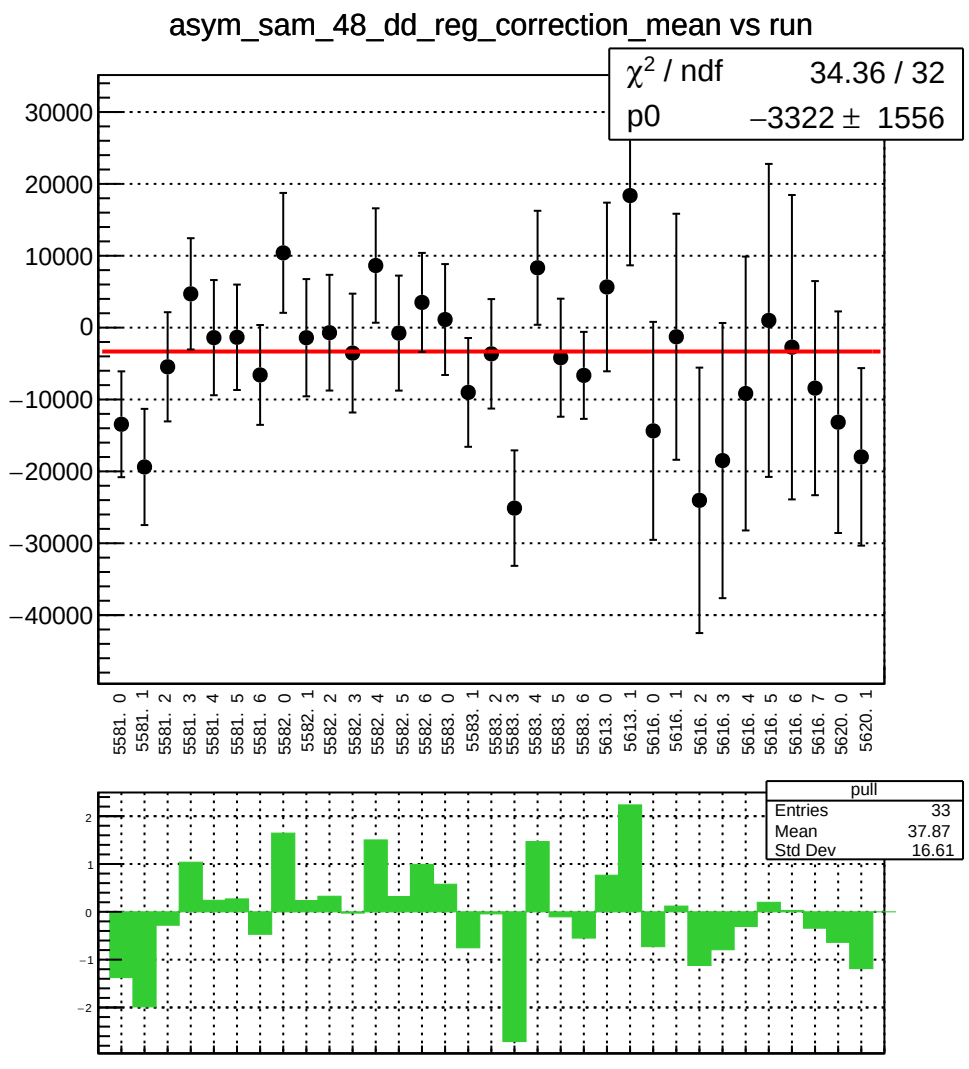

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.401e+05 / 32
p0 49.15 ± 0.07659
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

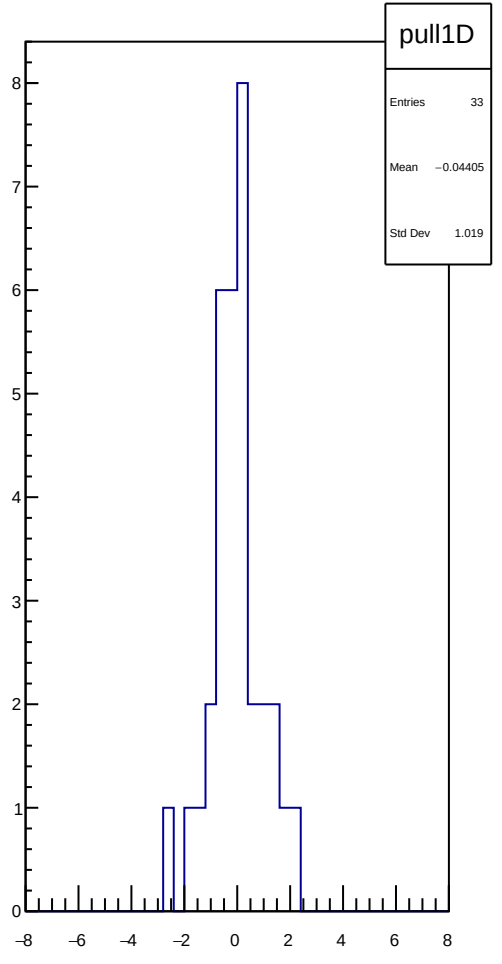

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 20.05 / 25
p0 −5.484e−14 ± 2.925e−14
0.5
0
−0.5
−1
−1.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 25.56
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.1075
Std Dev 0.8717
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

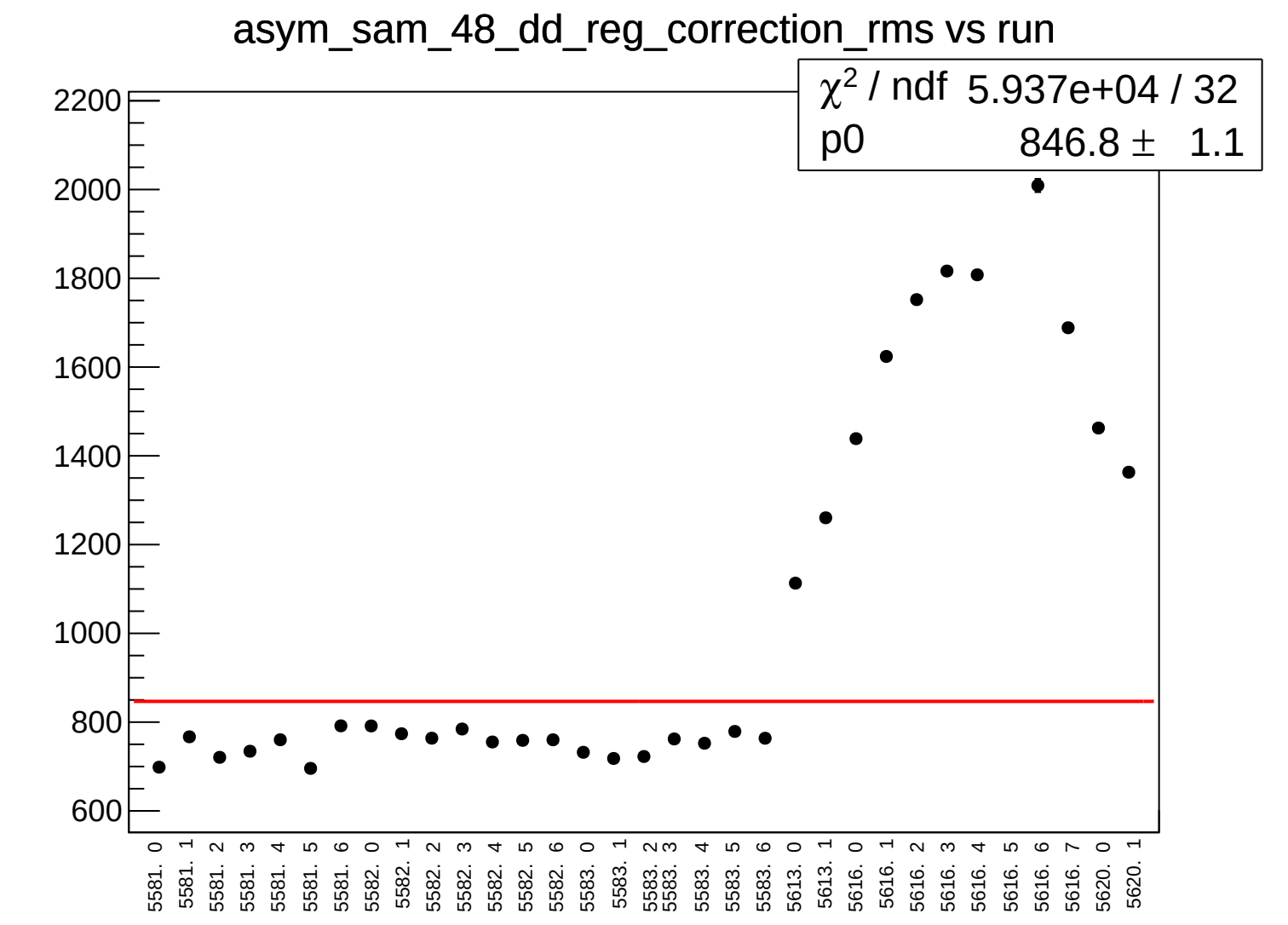

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.533e+05 / 25
p0 1.249e−11 ± 2.068e−14
90
80
70
60
50
40
30
20
10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

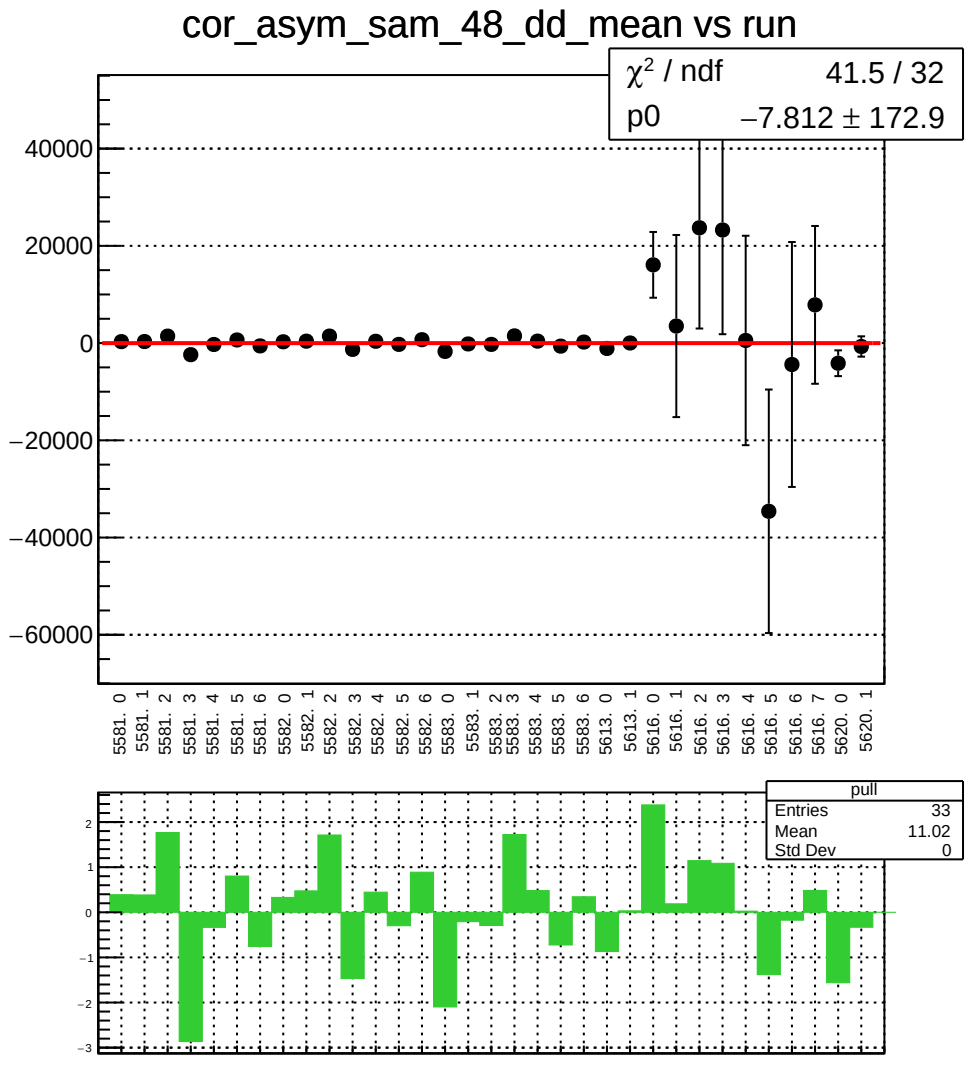

reg_asym_sam_48_dd_mean vs run
χ² / ndf 44.21 / 32
p0 −13.33 ± 172.5
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.31
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean −0.08799
Std Dev 1.154
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

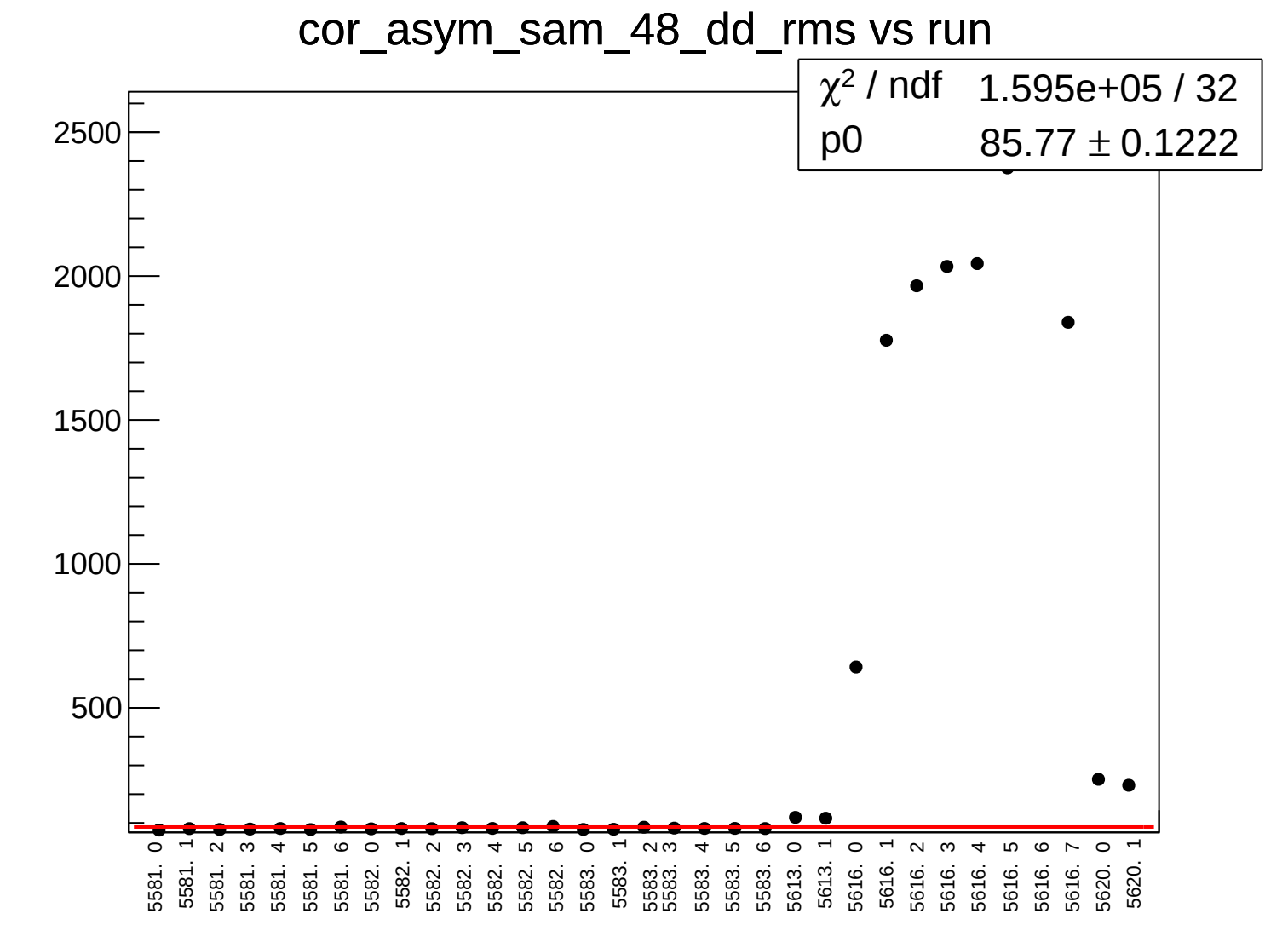

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.443e+05 / 32
p0 86.91 ± 0.122
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

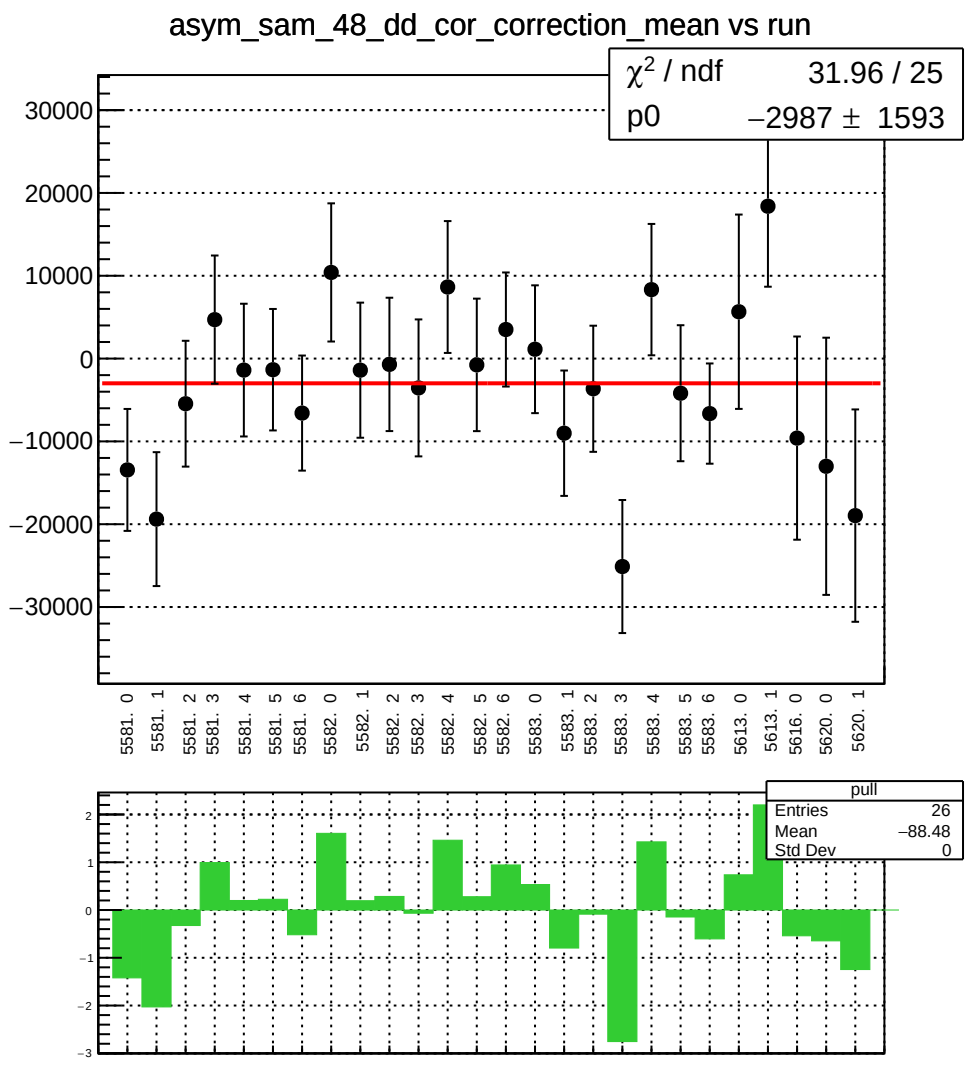

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 34.36 / 32
p0 −3322 ± 1556
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.87
Std Dev 16.61
2
1
0
−1
−2

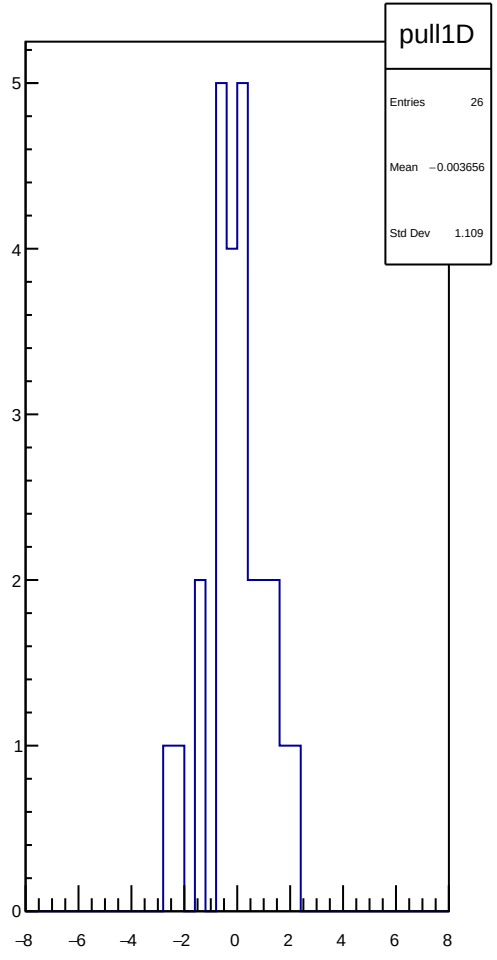

pull1D
Entries 33
Mean −0.04405
Std Dev 1.019
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

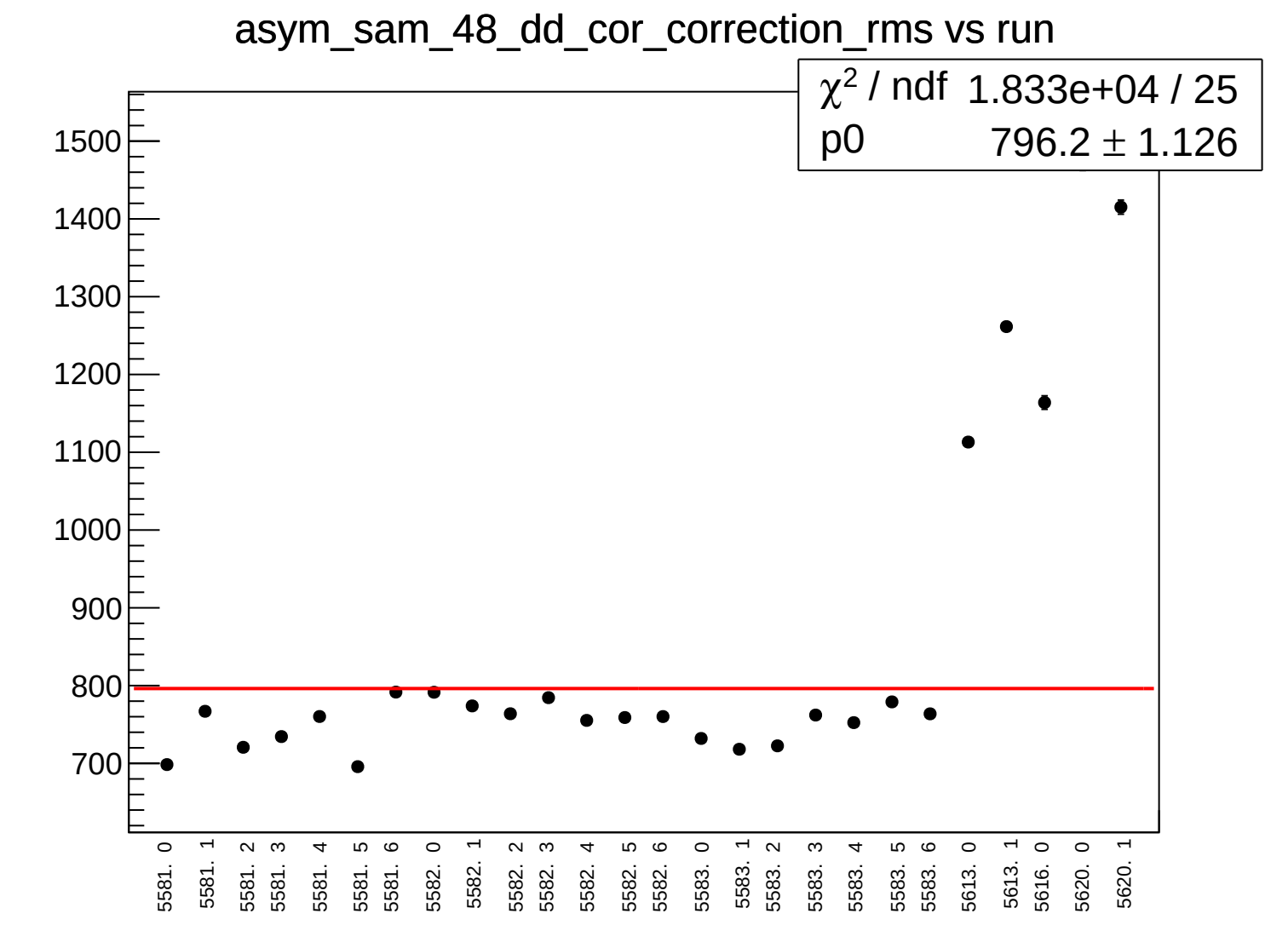

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 5.937e+04 / 32
p0 846.8 ± 1.1
2200
2000
1800
1600
1400
1200
1000
800
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

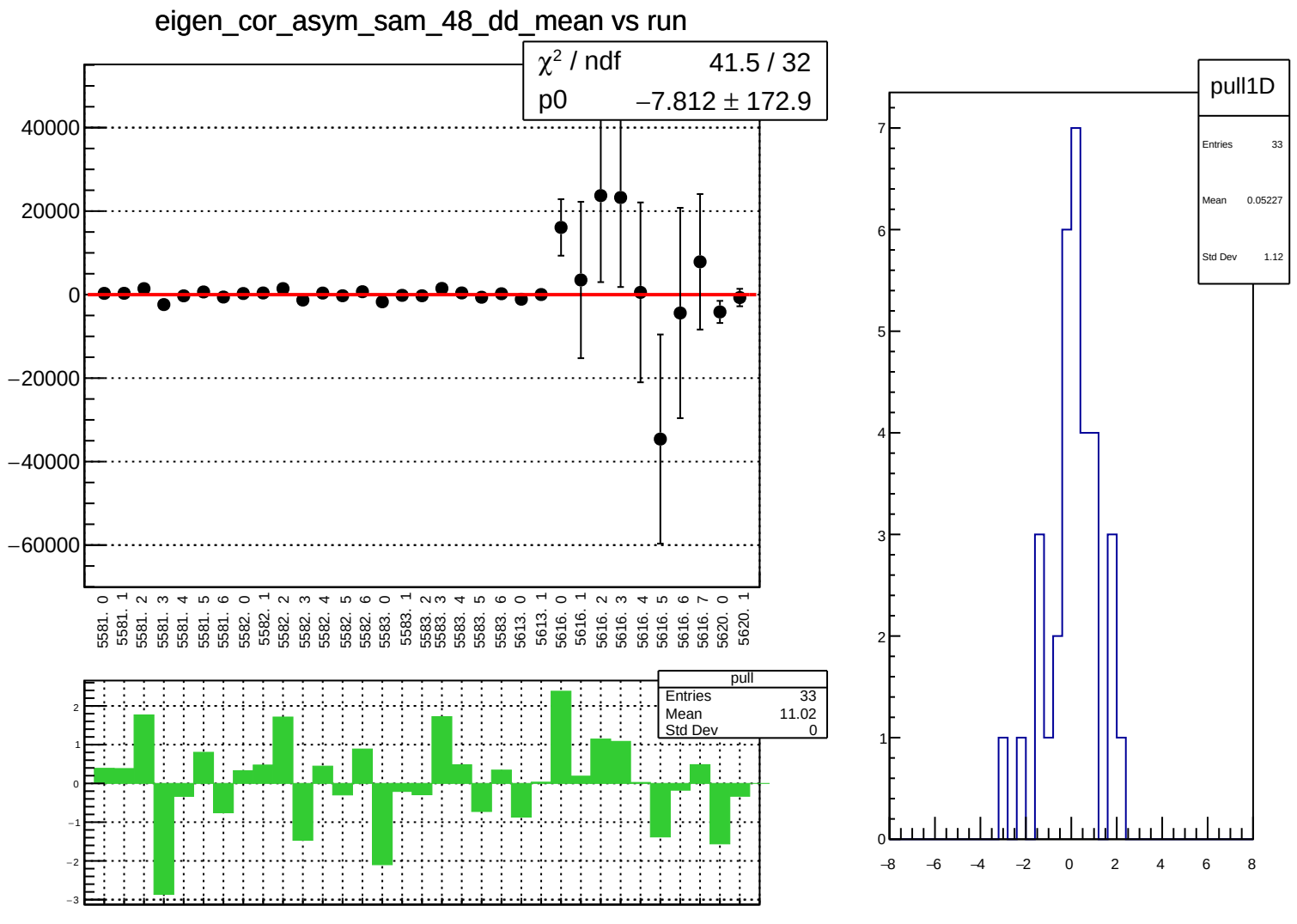

cor_asym_sam_48_dd_mean vs run
χ² / ndf 41.5 / 32
p0 −7.812 ± 172.9
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 11.02
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.05227
Std Dev 1.12
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

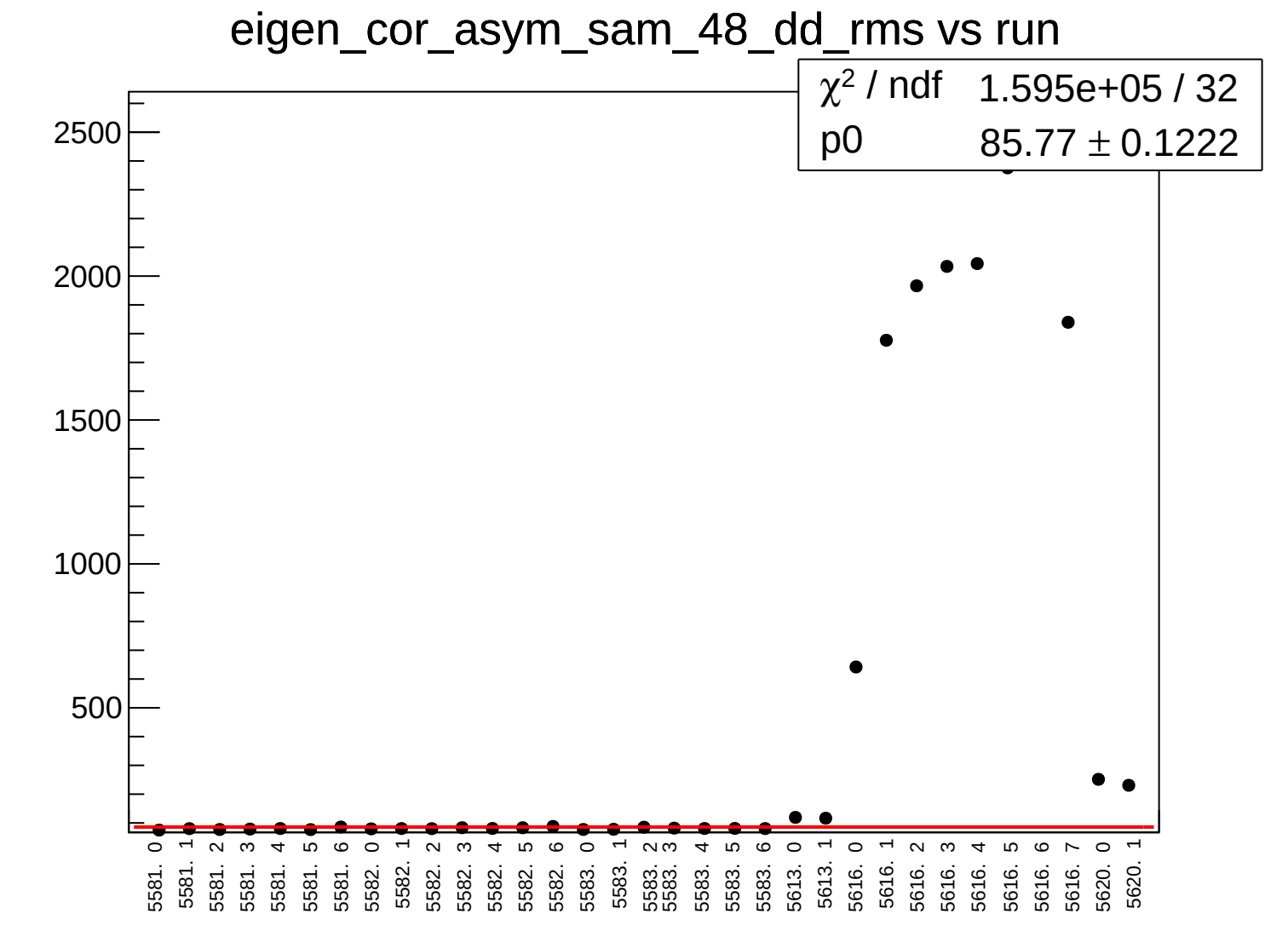

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.595e+05 / 32
p0 85.77 ± 0.1222
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

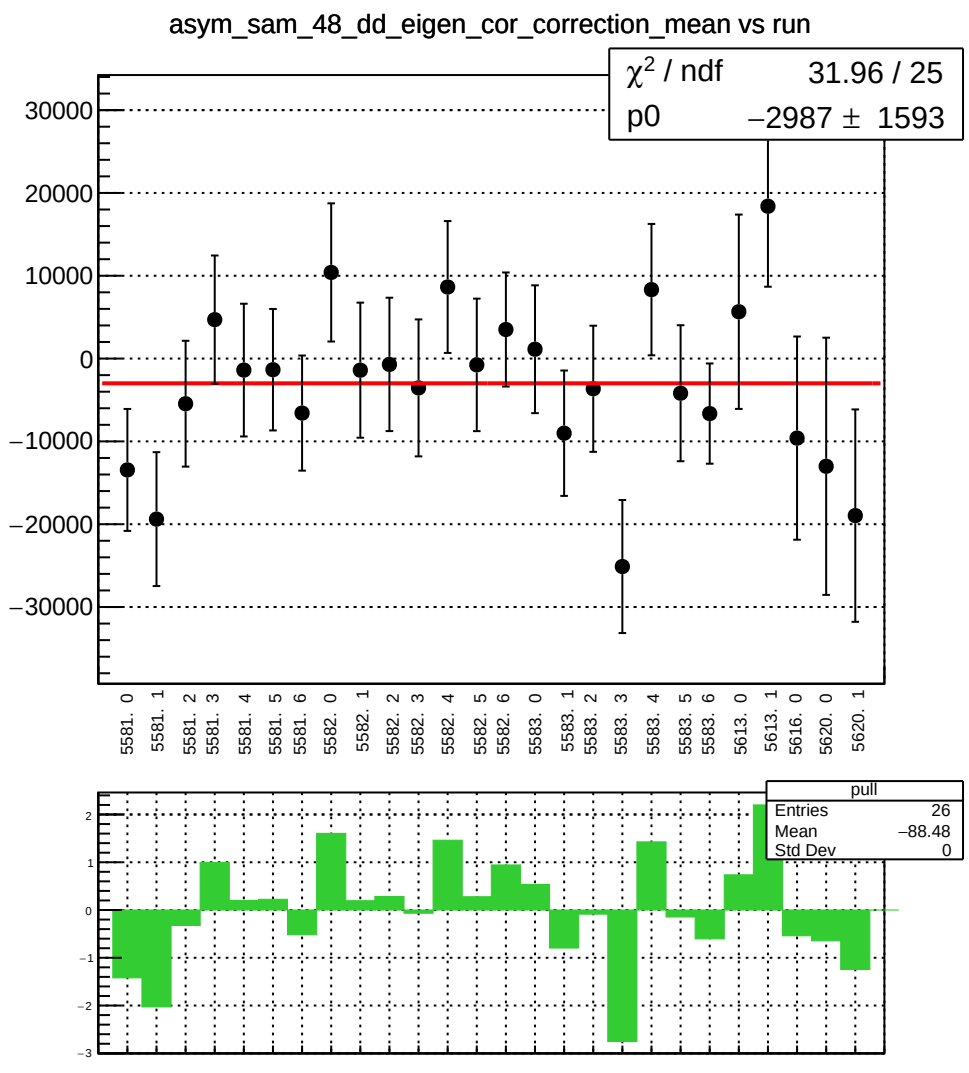

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 31.96 / 25
p0 −2987 ± 1593
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −88.48
Std Dev 0
2
1
0
−1
−2
−3

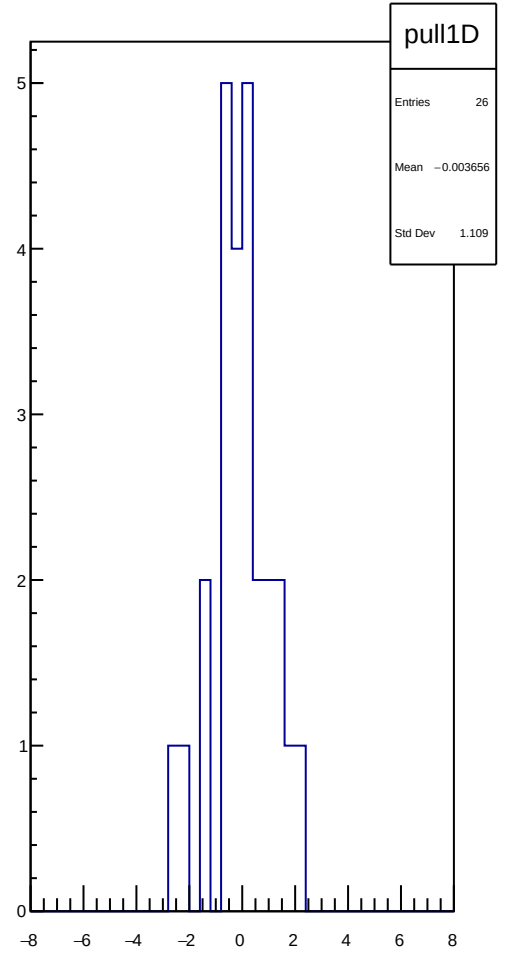

pull1D
Entries 26
Mean −0.003656
Std Dev 1.109
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

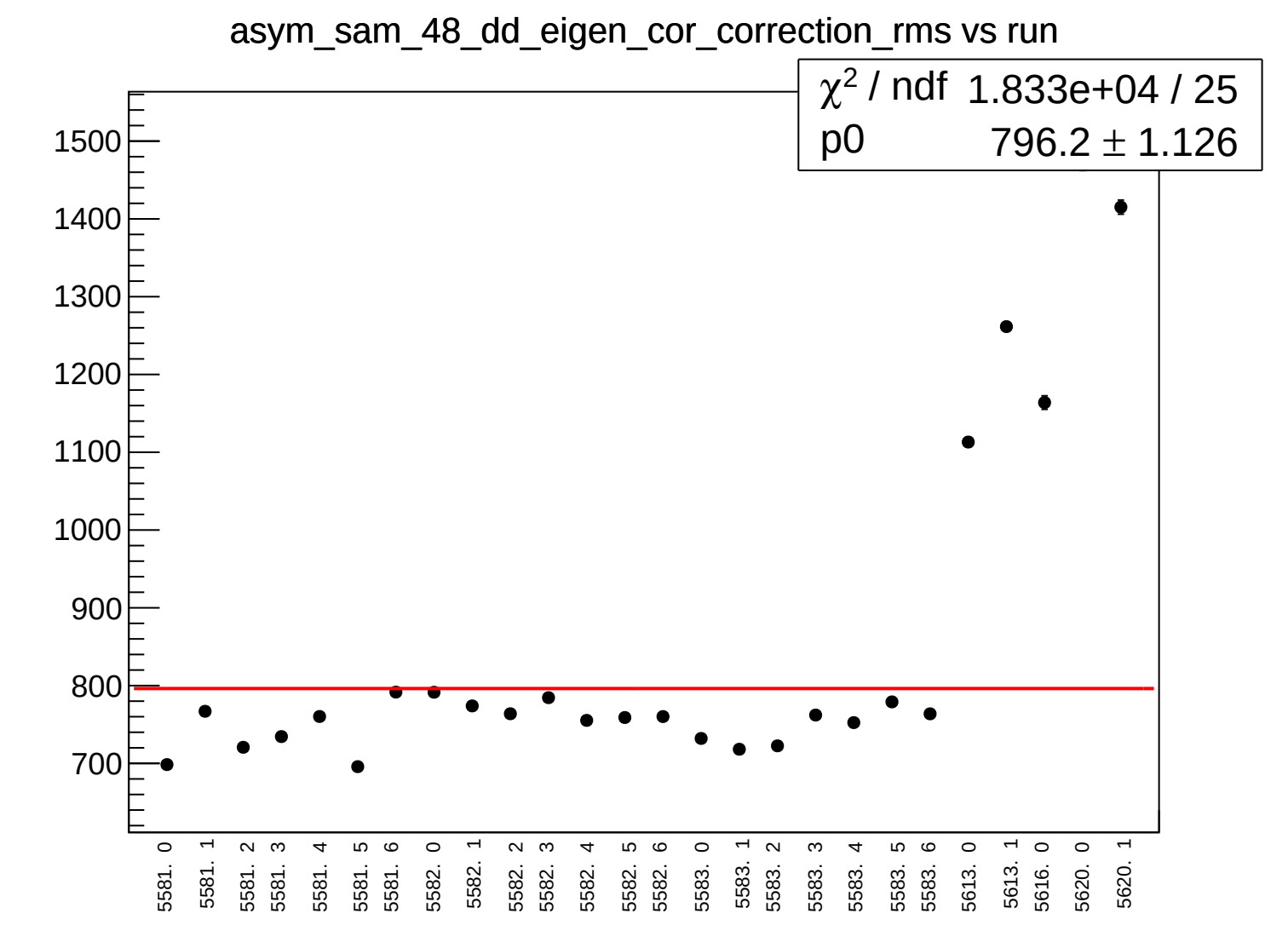

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1.833e+04 / 25
p0 796.2 ± 1.126
1500
1400
1300
1200
1100
1000
900
800
700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

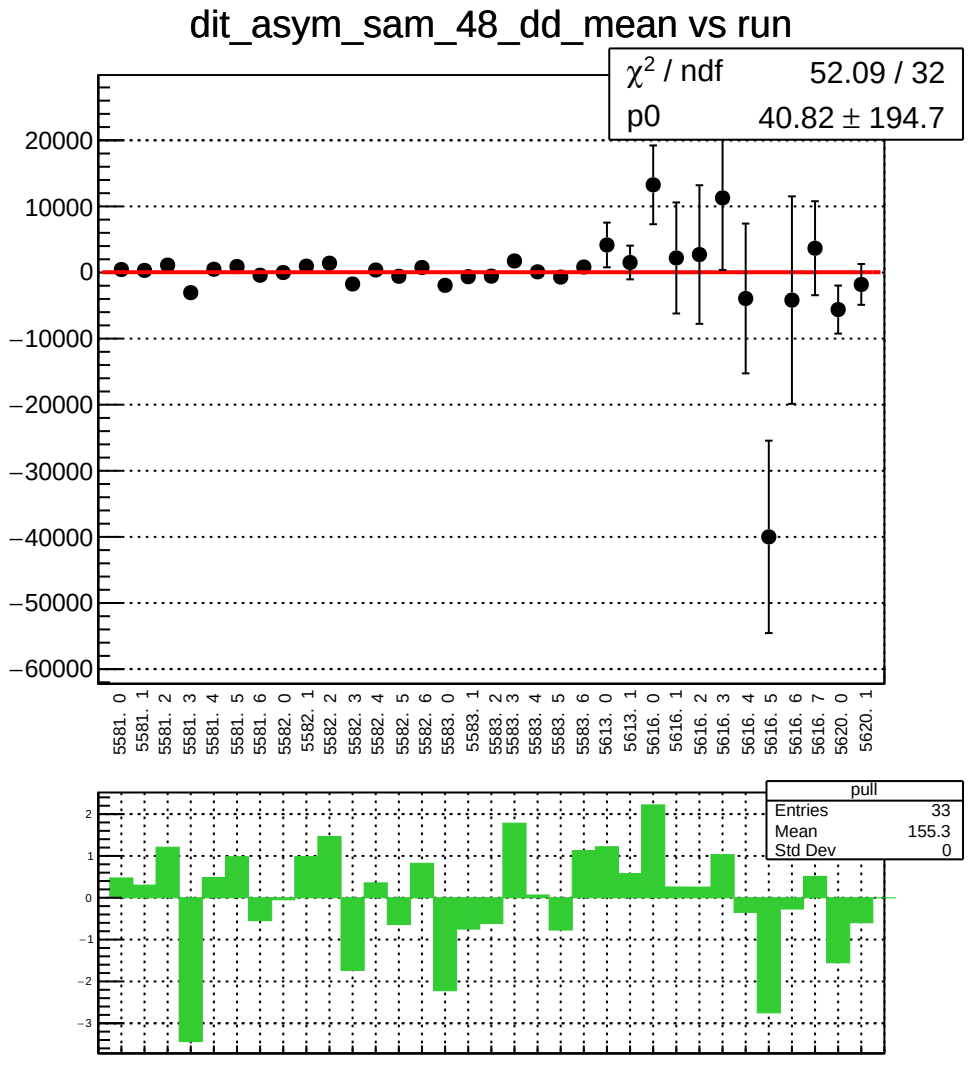

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 41.5 / 32
p0 −7.812 ± 172.9
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 11.02
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.05227
Std Dev 1.12
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

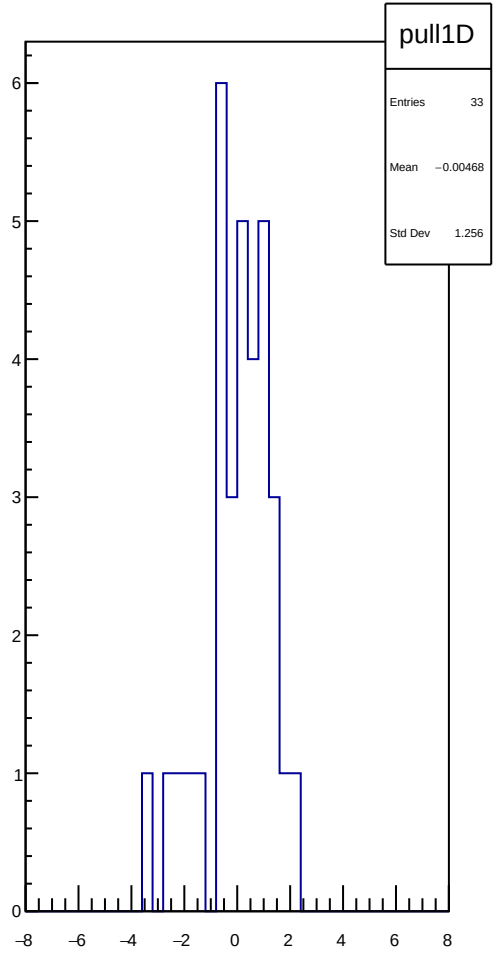

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.595e+05 / 32
p0 85.77 ± 0.1222
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

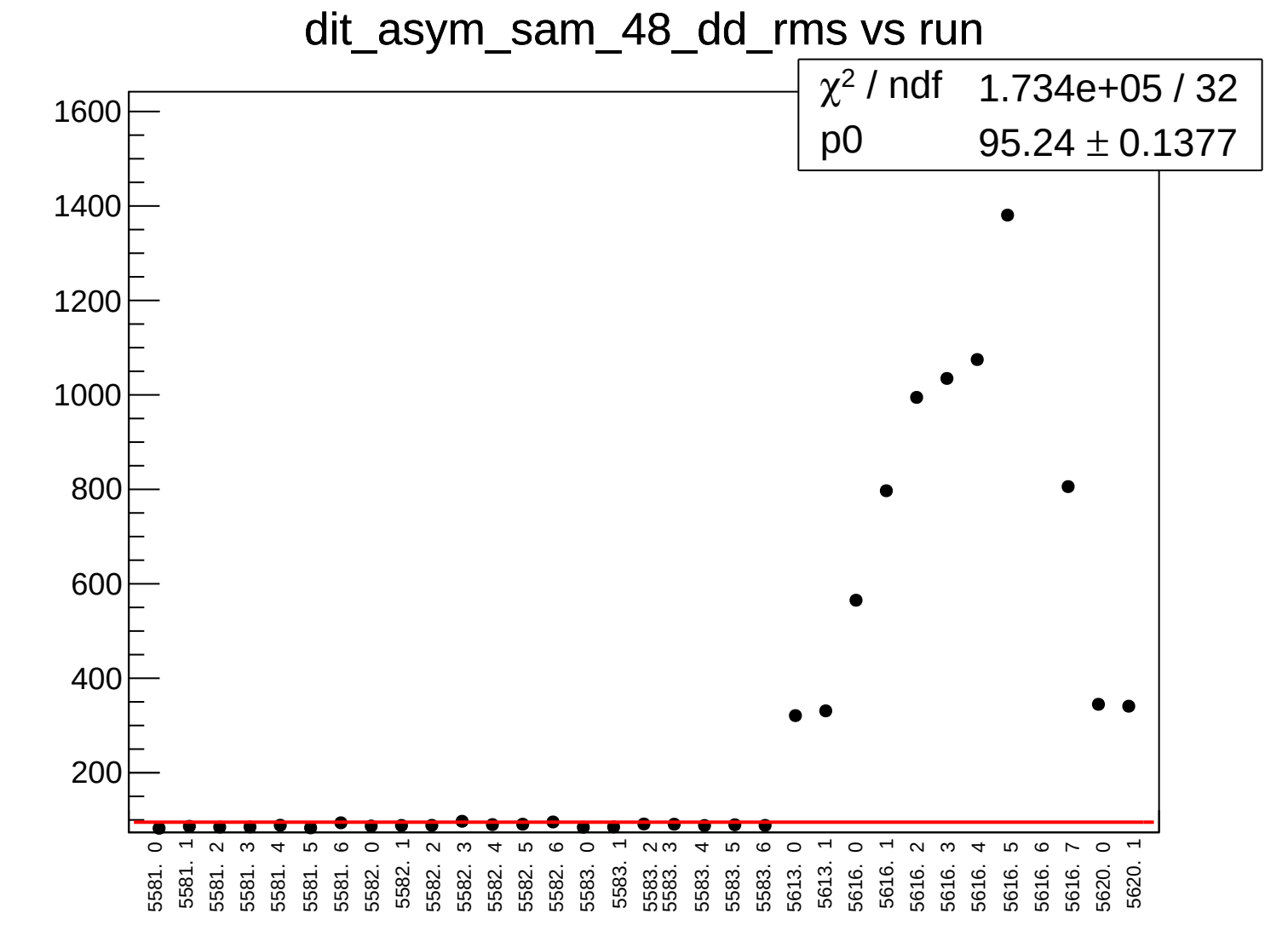

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 31.96 / 25
p0 −2987 ± 1593
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −88.48
Std Dev 0
2
1
0
−1
−2
−3

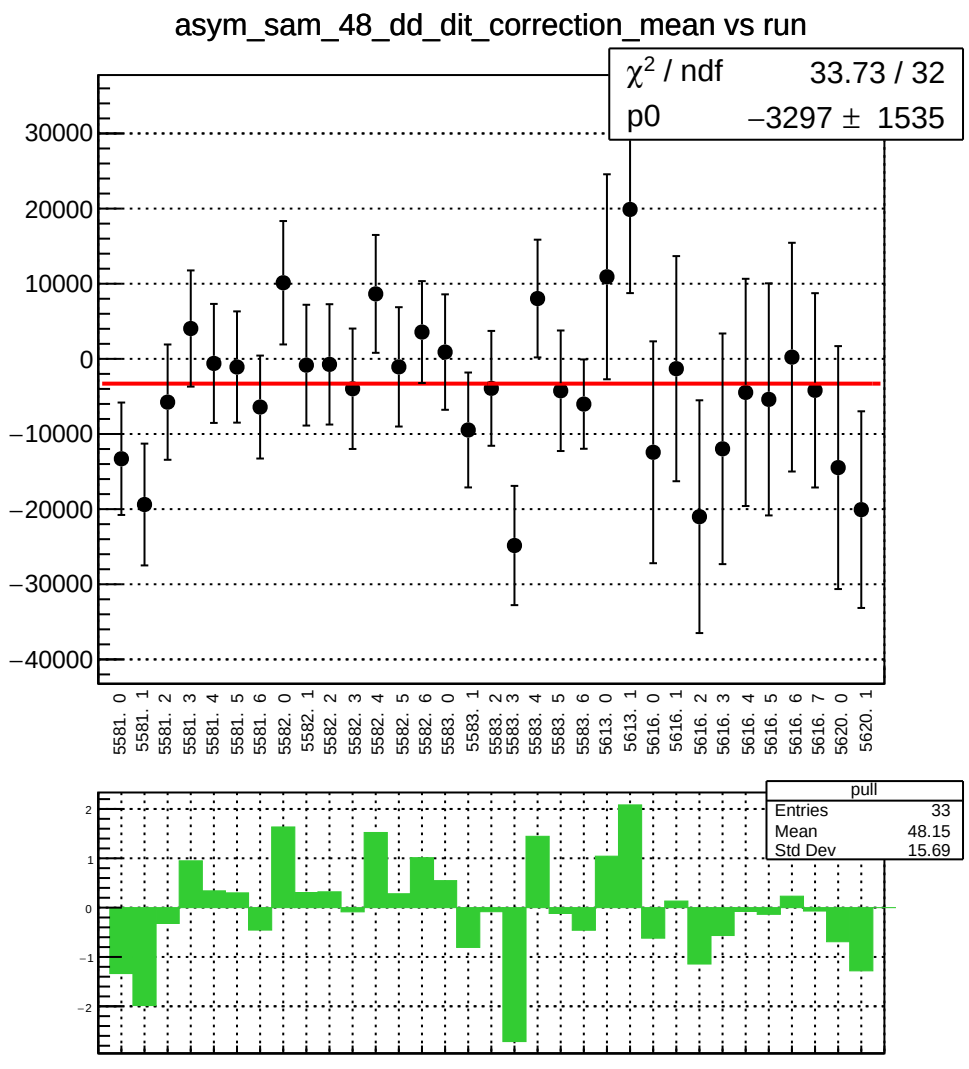

pull1D
Entries 26
Mean −0.003656
Std Dev 1.109
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

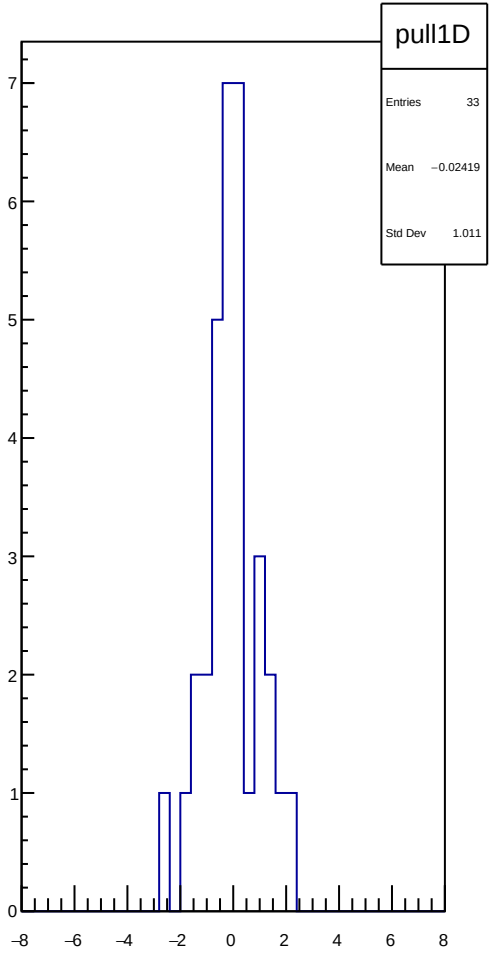

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.833e+04 / 25
p0 796.2 ± 1.126
1500
1400
1300
1200
1100
1000
900
800
700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

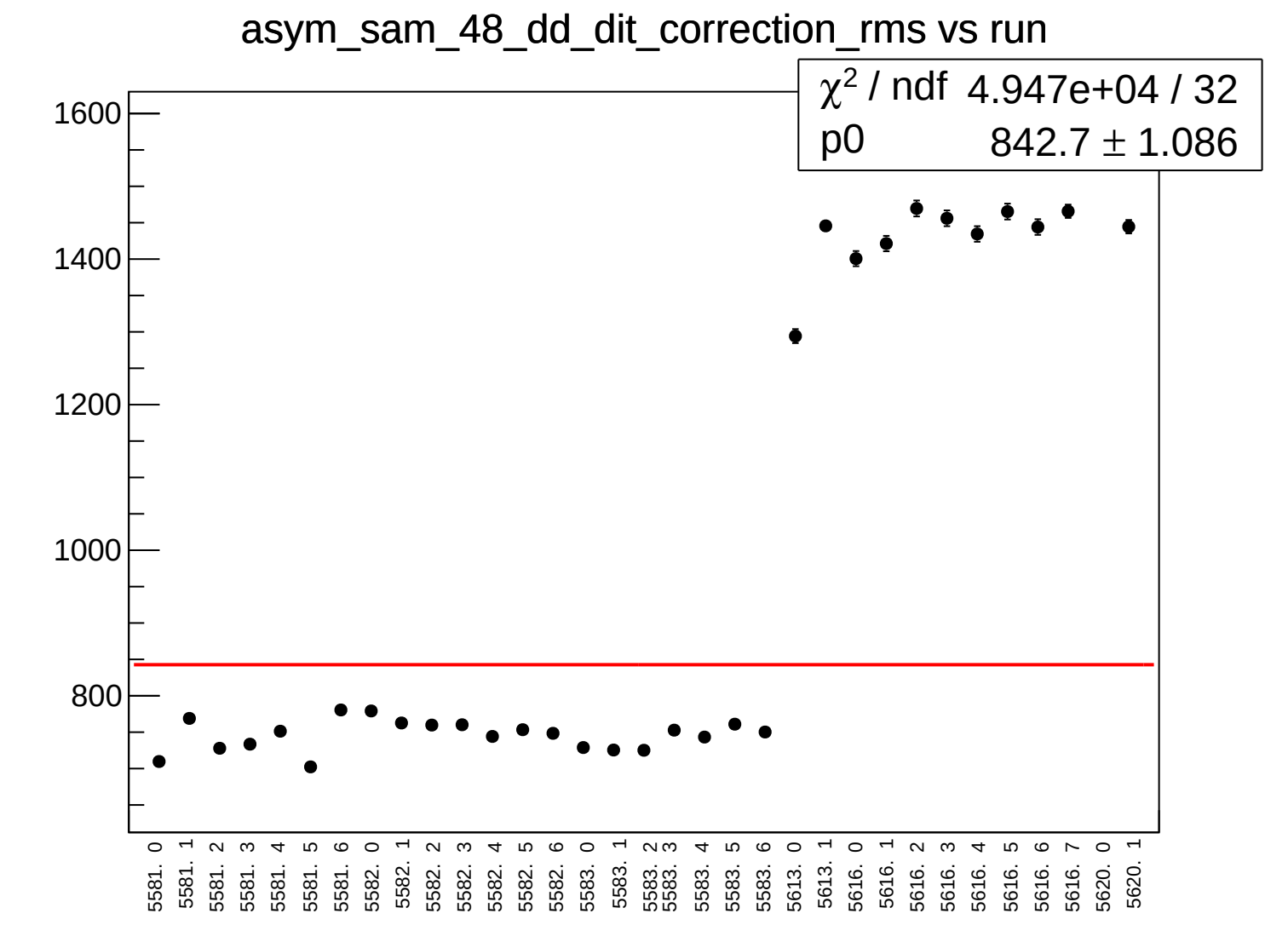

dit_asym_sam_48_dd_mean vs run
χ² / ndf 52.09 / 32
p0 40.82 ± 194.7
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 155.3
Std Dev 0
2
1
0
−1
−2
−3

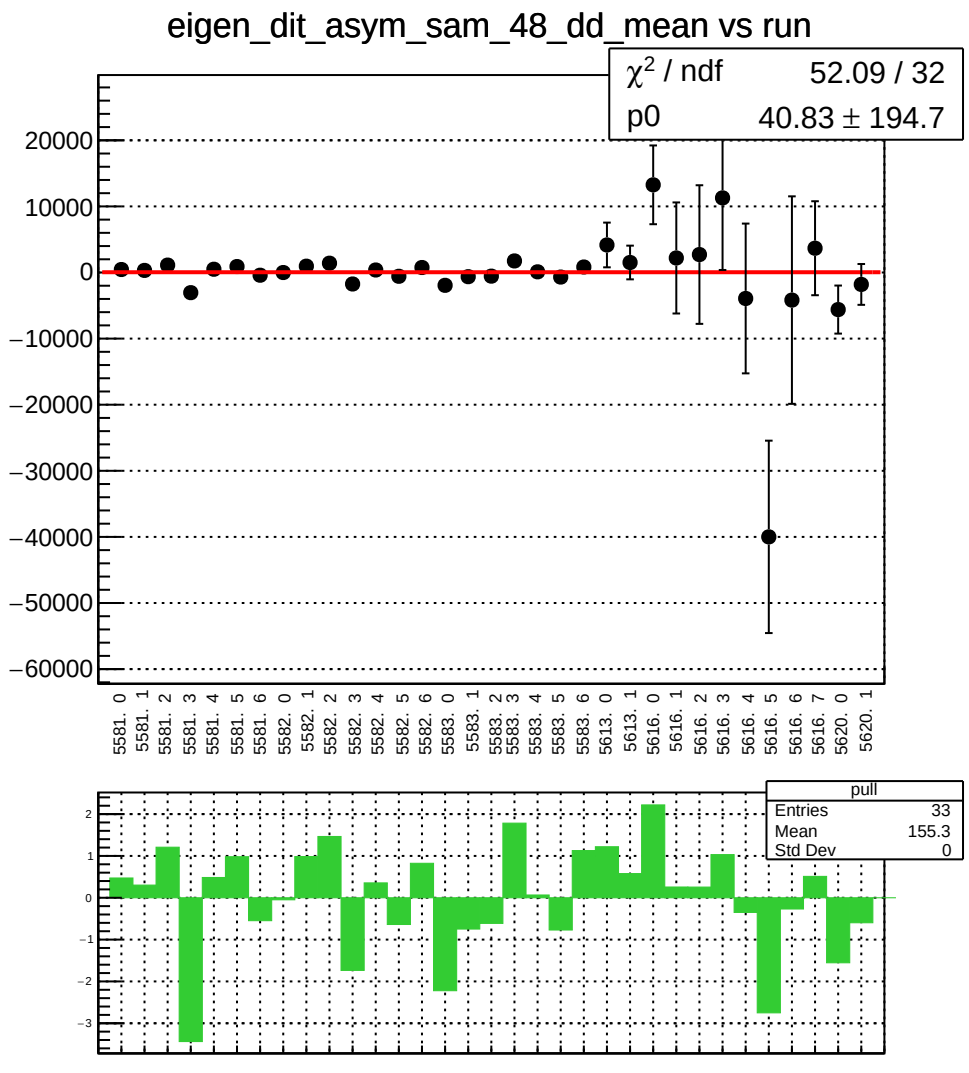

pull1D
Entries 33
Mean −0.00468
Std Dev 1.256
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

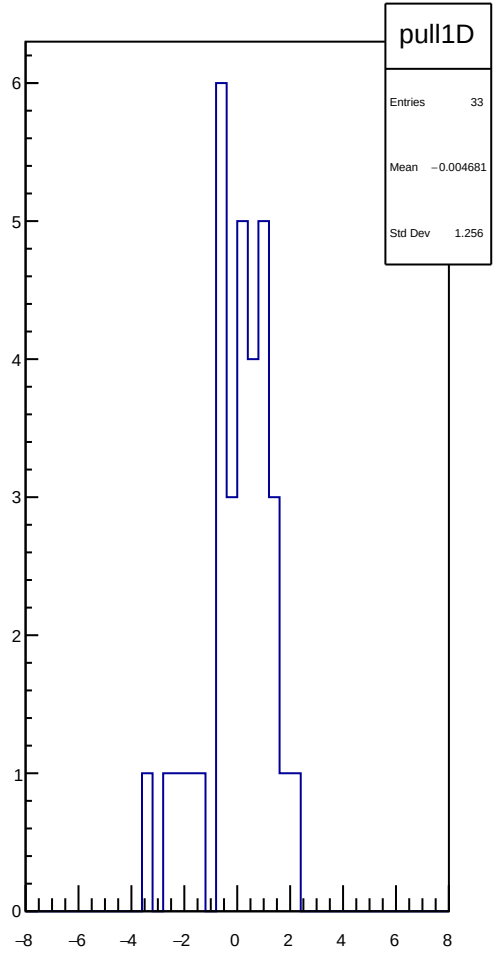

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.734e+05 / 32
p0 95.24 ± 0.1377
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

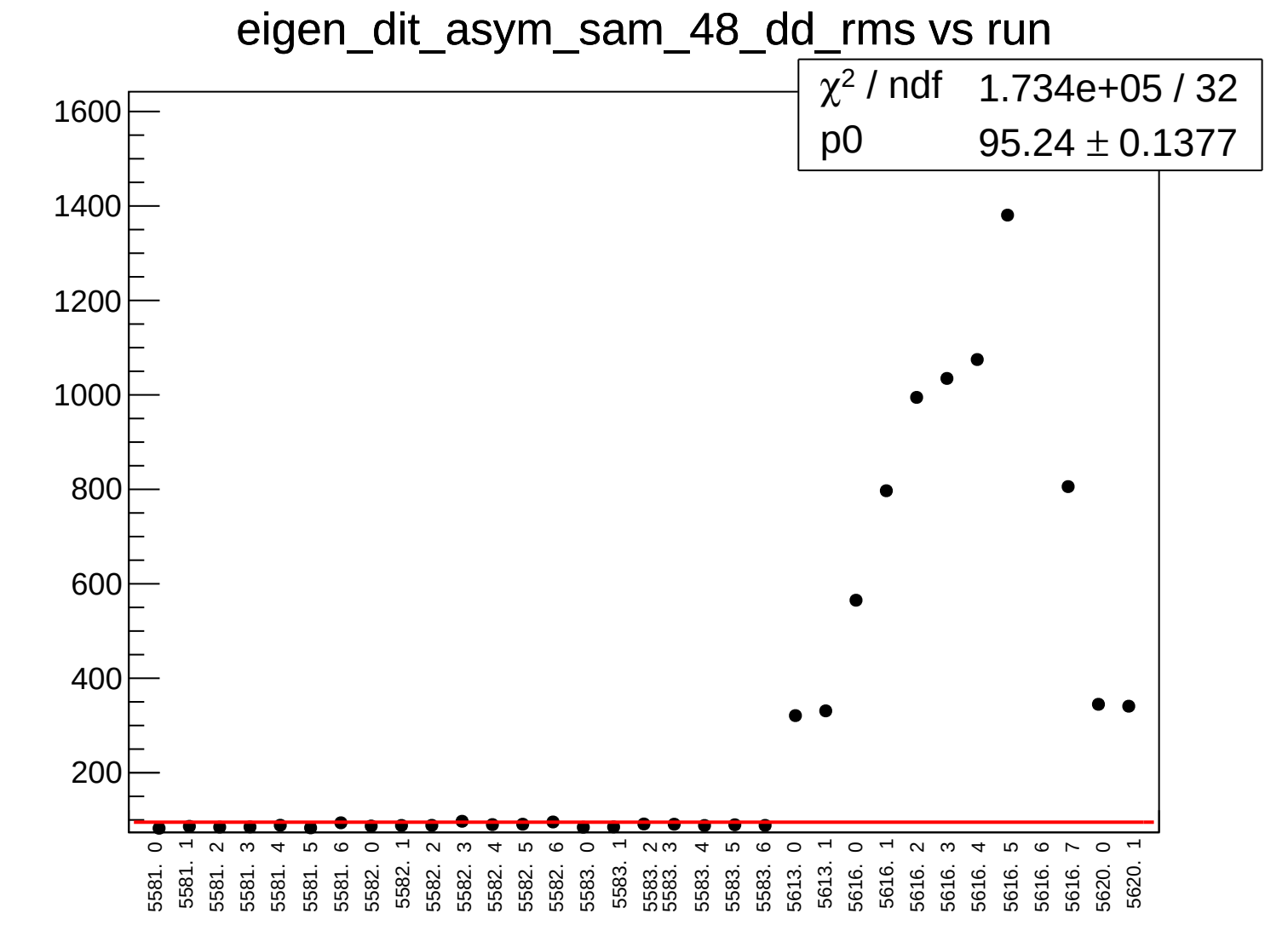

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 33.73 / 32
p0 −3297 ± 1535
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 48.15
Std Dev 15.69
2
1
0
−1
−2

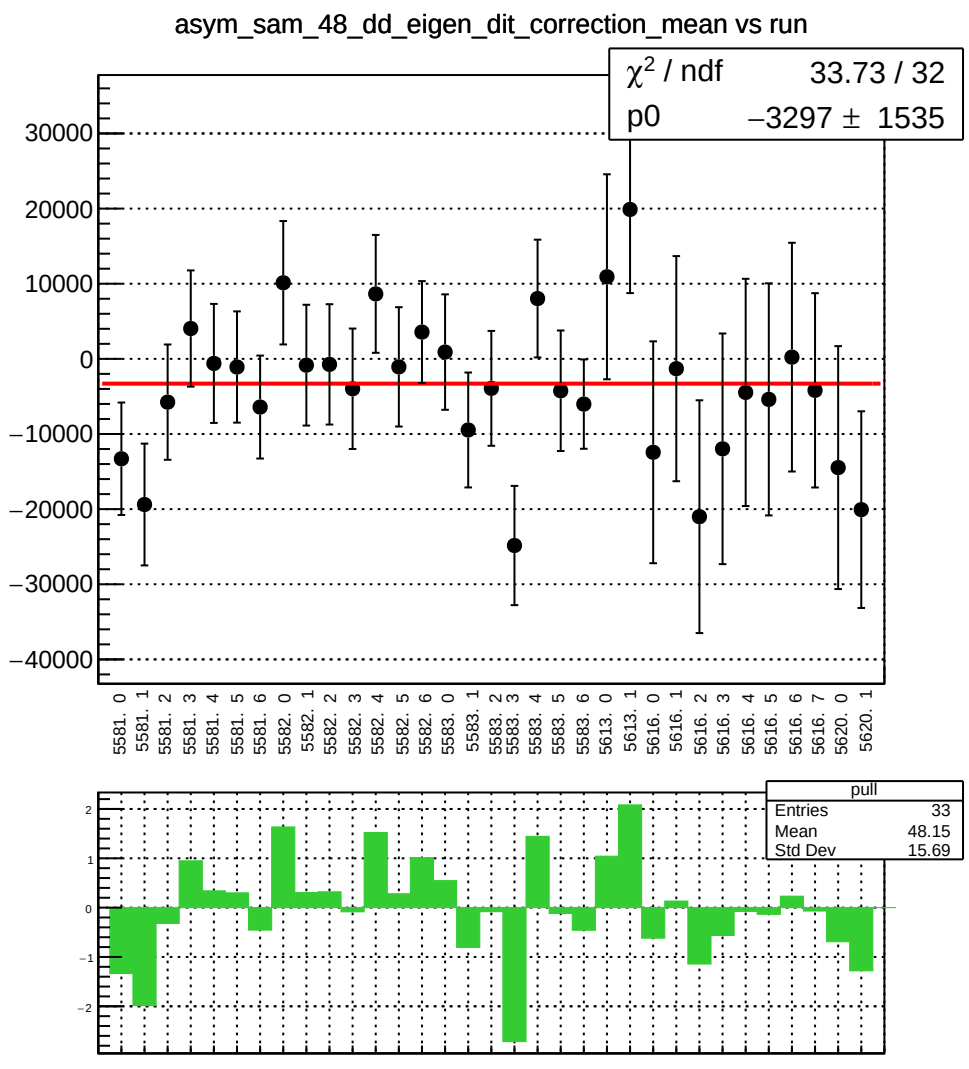

pull1D
Entries 33
Mean −0.02419
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

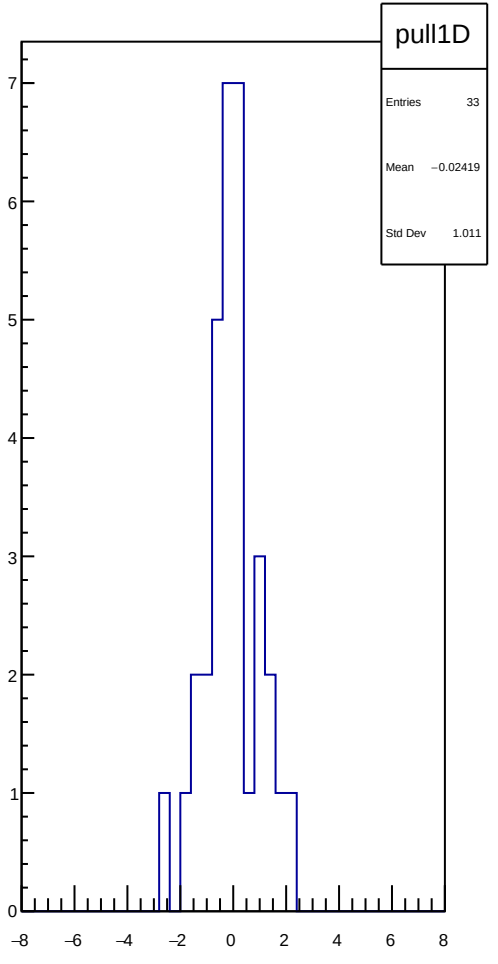

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 4.947e+04 / 32
p0 842.7 ± 1.086
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

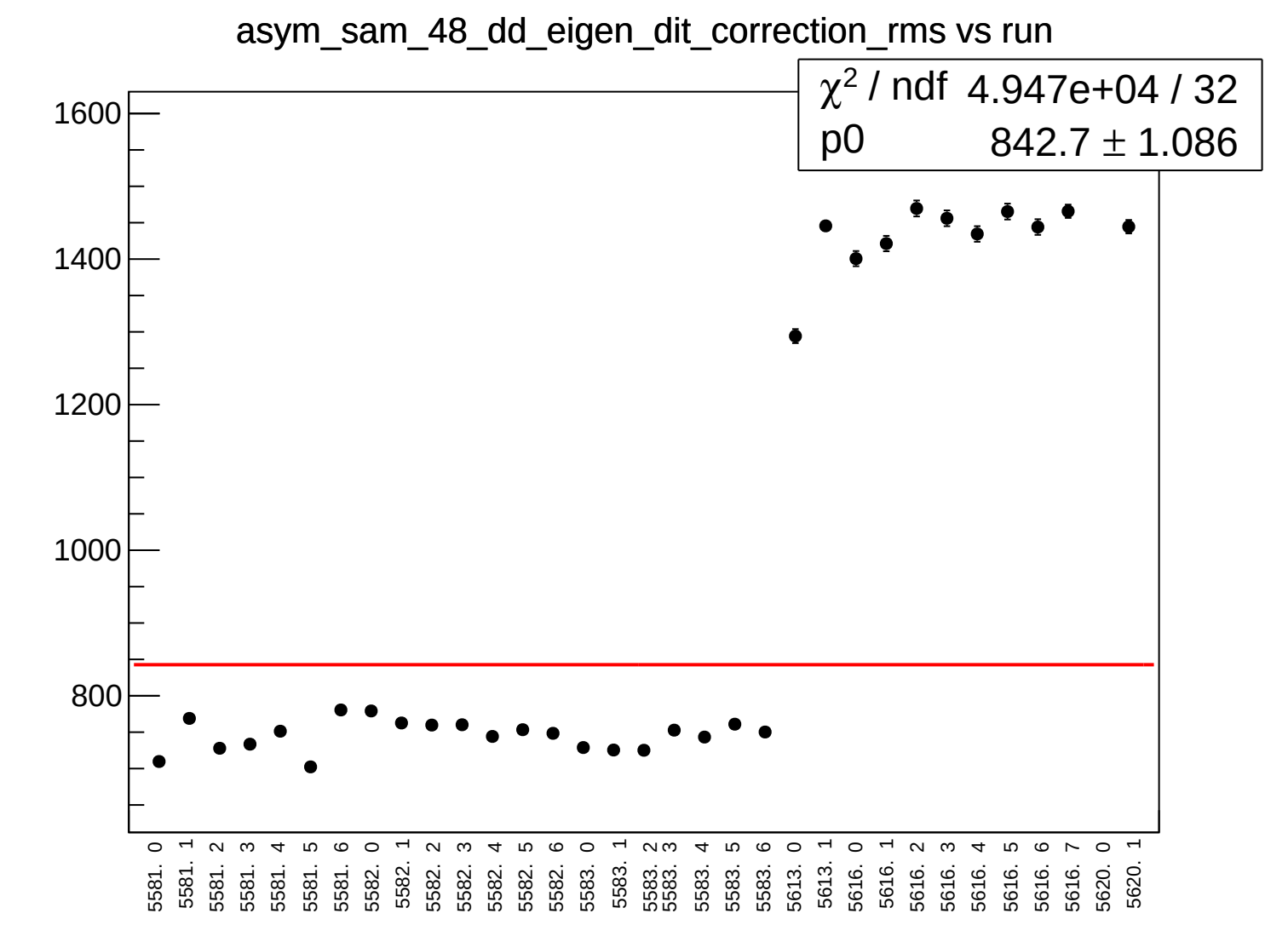

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 52.09 / 32
p0 40.83 ± 194.7
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 155.3
Std Dev 0
2
1
0
−1
−2
−3

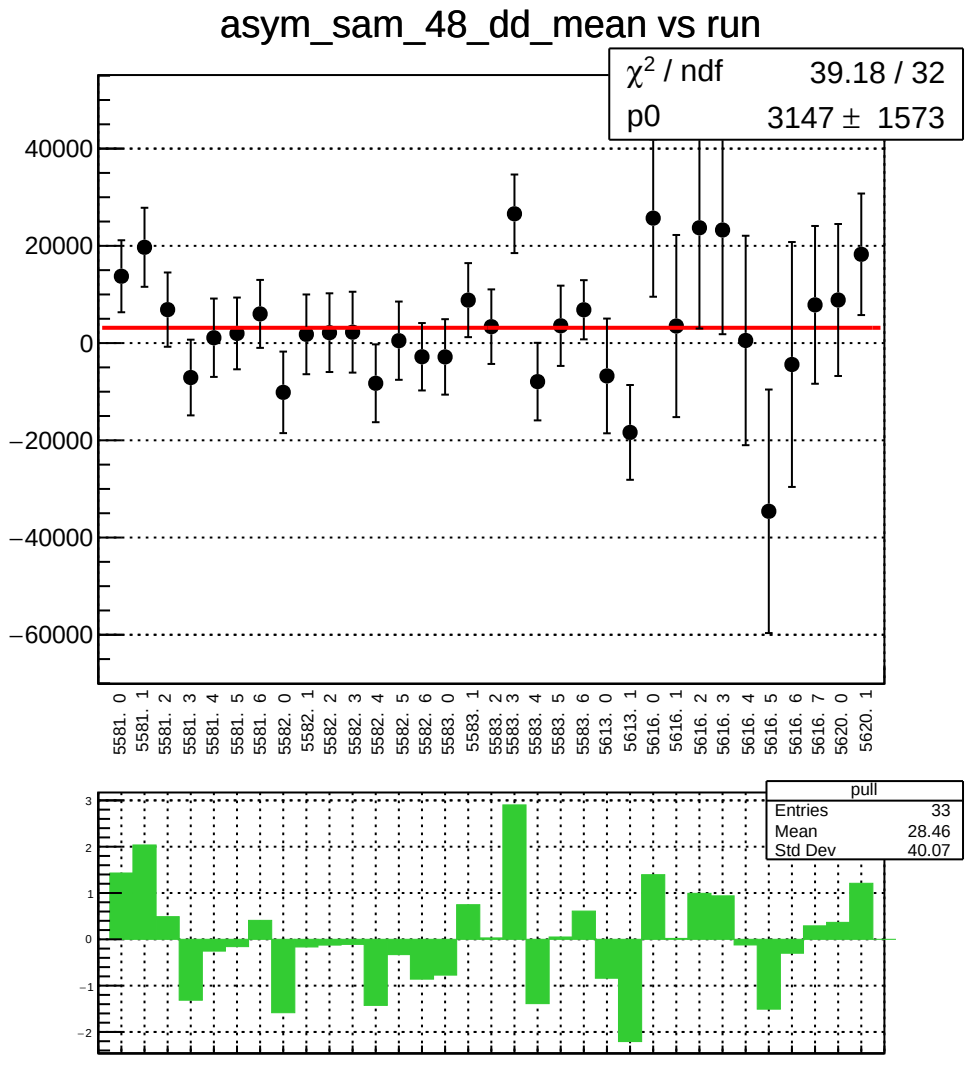

pull1D
Entries 33
Mean −0.004681
Std Dev 1.256
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

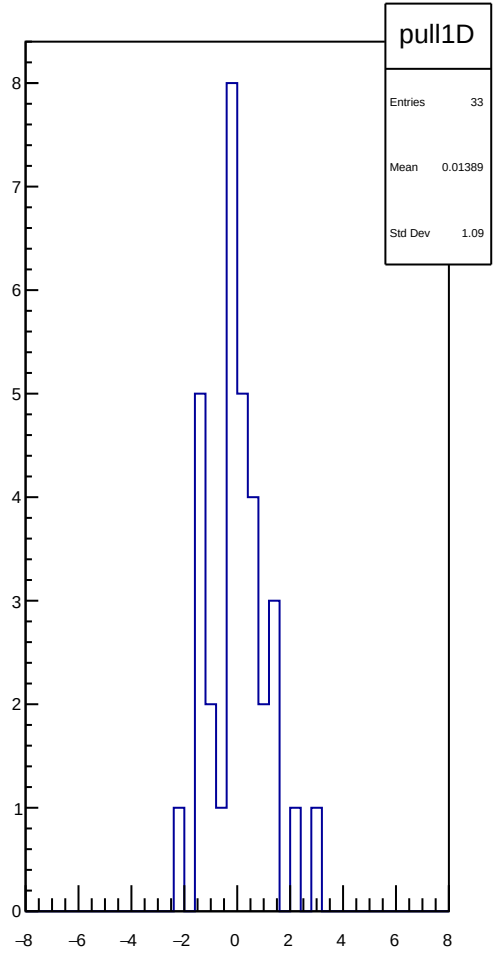

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.734e+05 / 32
p0 95.24 ± 0.1377
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

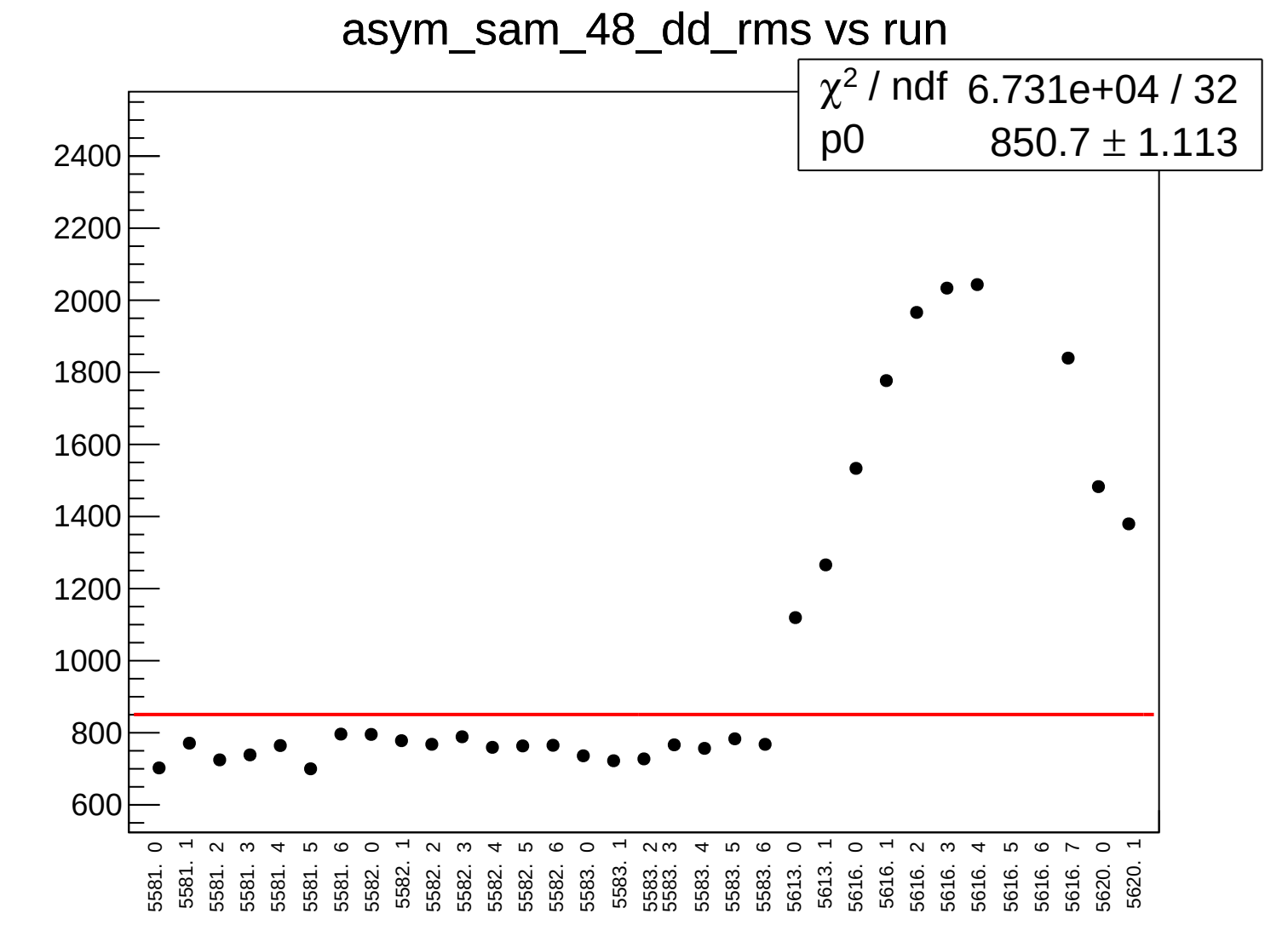

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 33.73 / 32
p0 −3297 ± 1535
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 48.15
Std Dev 15.69
2
1
0
−1
−2

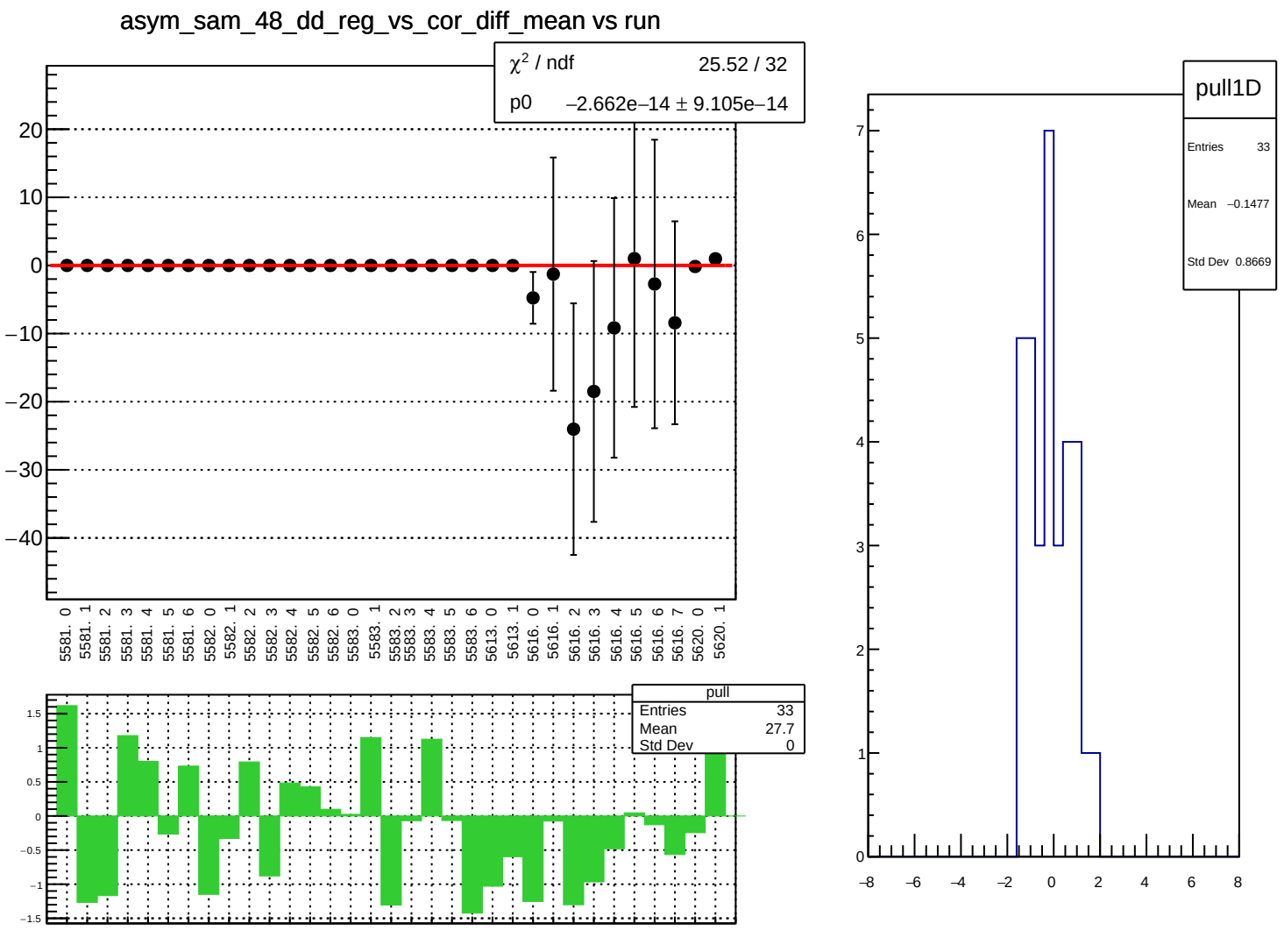

pull1D
Entries 33
Mean −0.02419
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

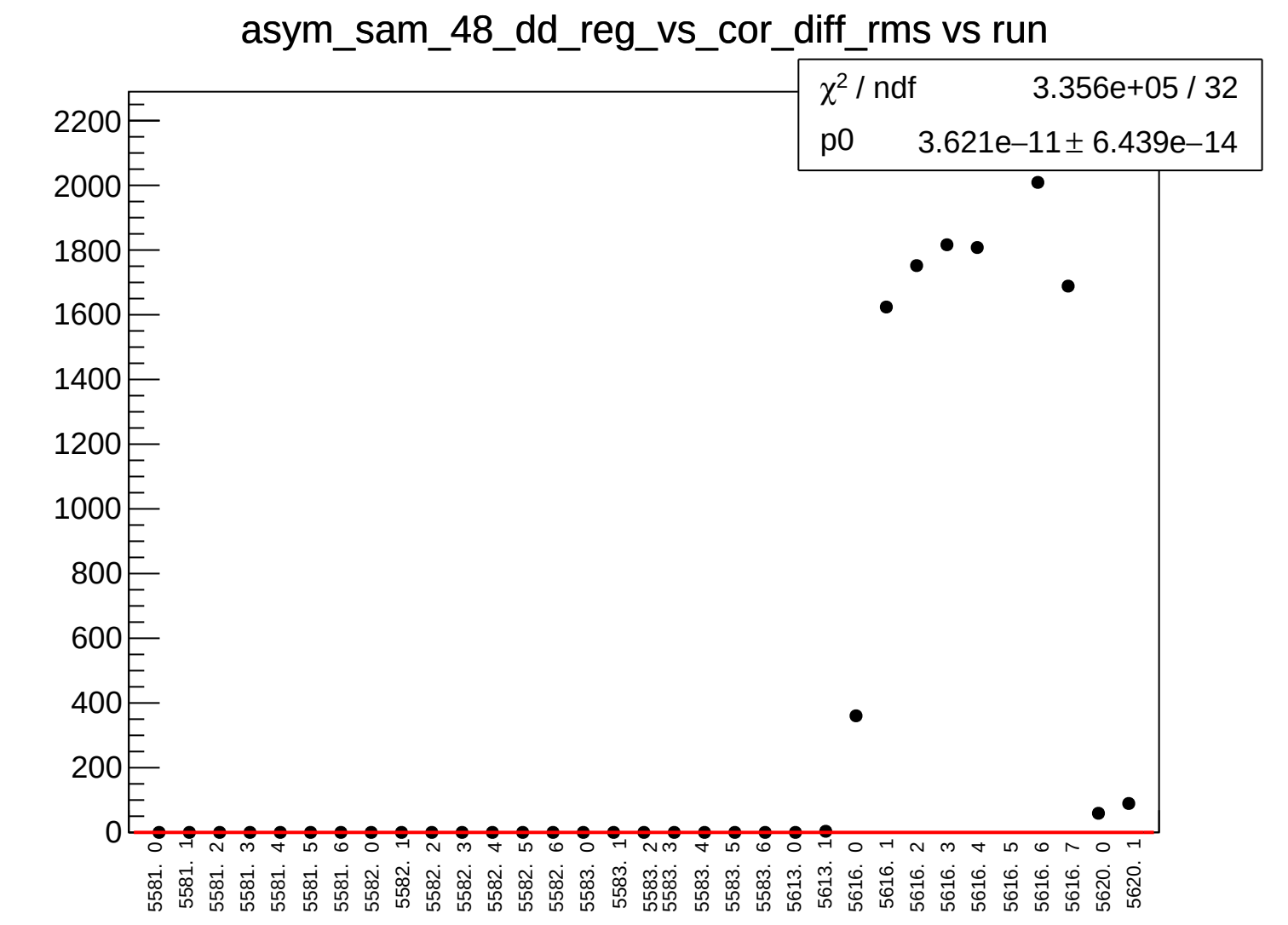

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.947e+04 / 32
p0 842.7 ± 1.086
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

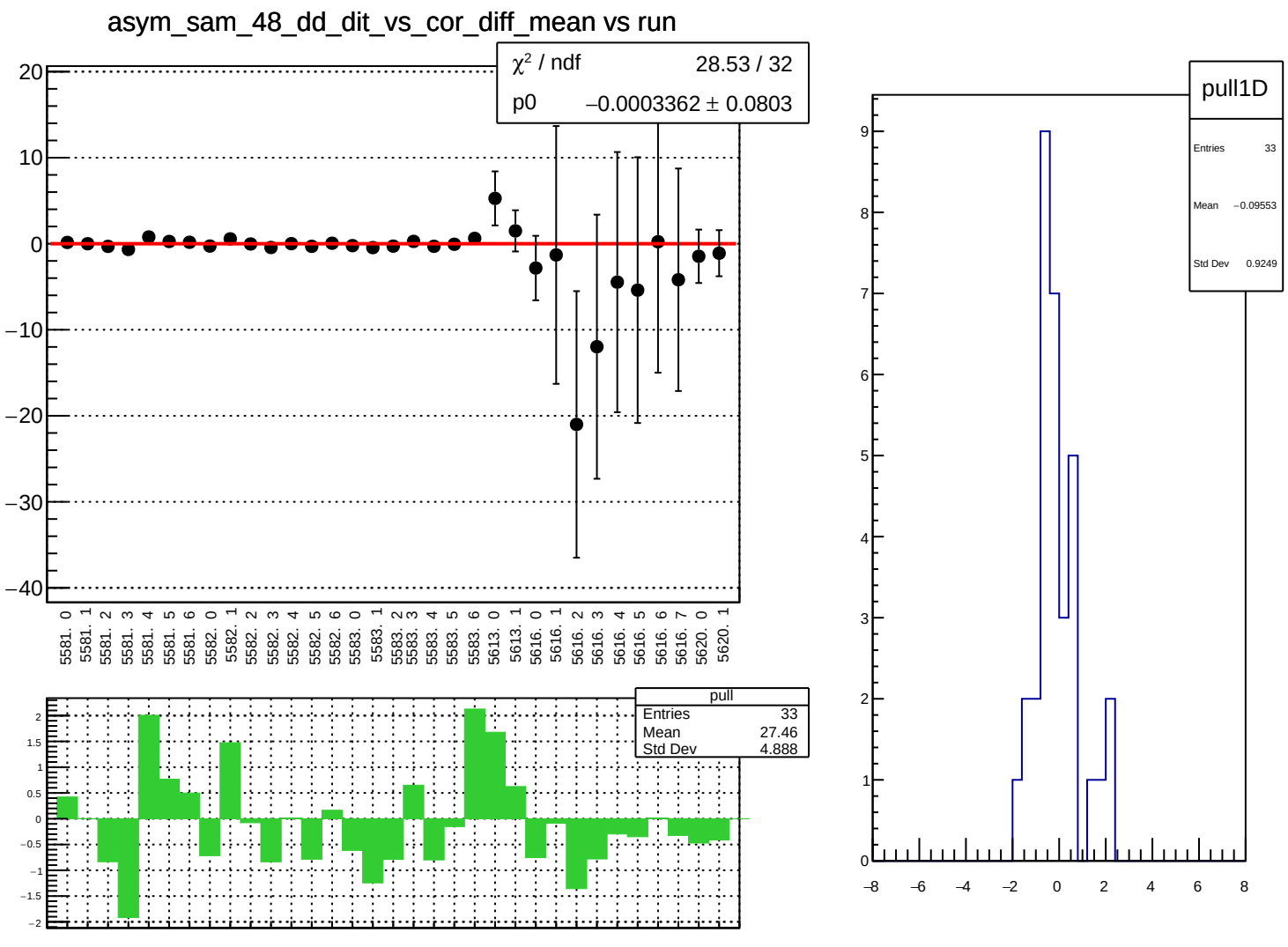

asym_sam_48_dd_mean vs run
χ² / ndf 39.18 / 32
p0 3147 ± 1573
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.46
Std Dev 40.07
3
2
1
0
−1
−2

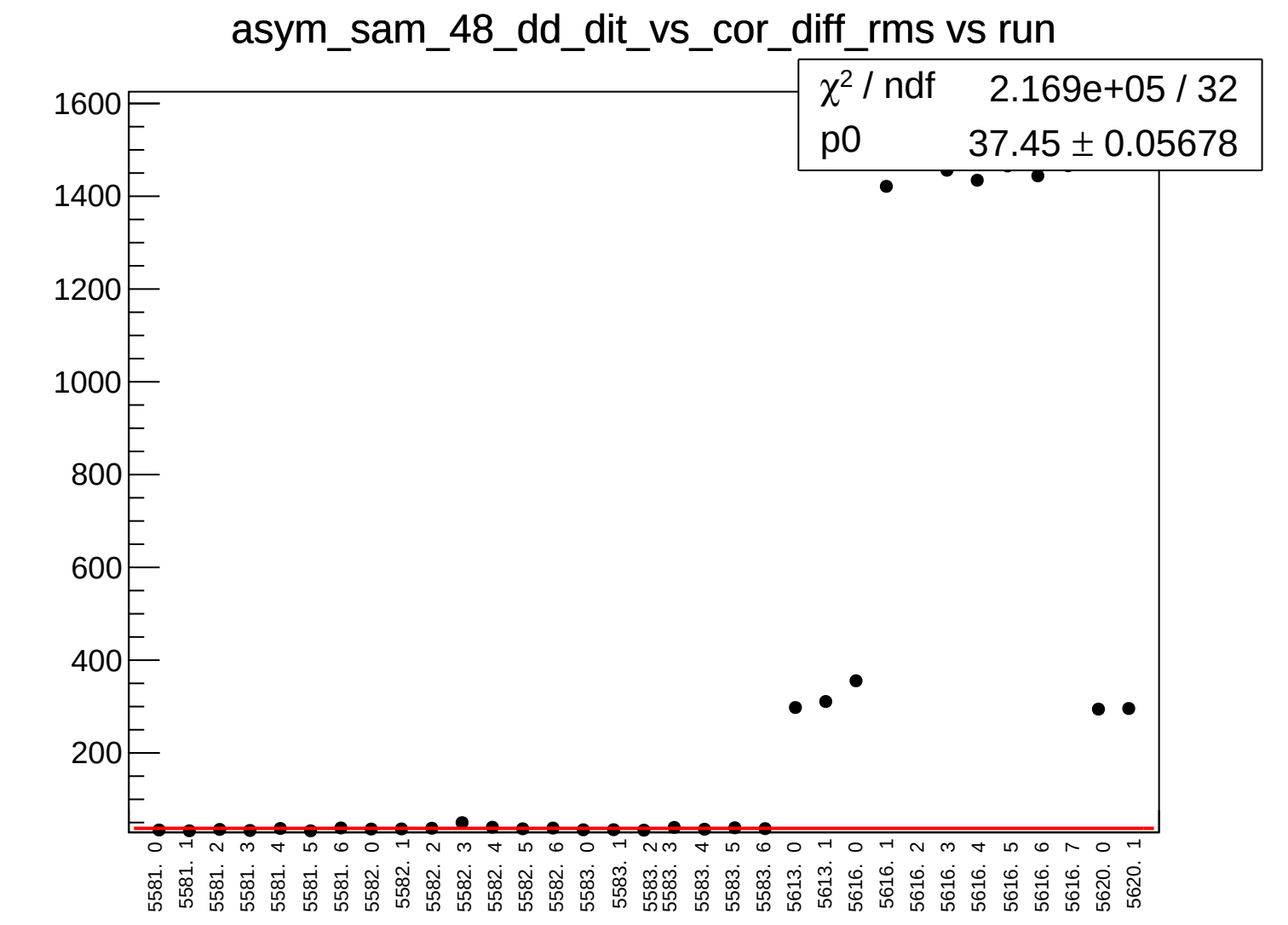

pull1D
Entries 33
Mean 0.01389
Std Dev 1.09
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

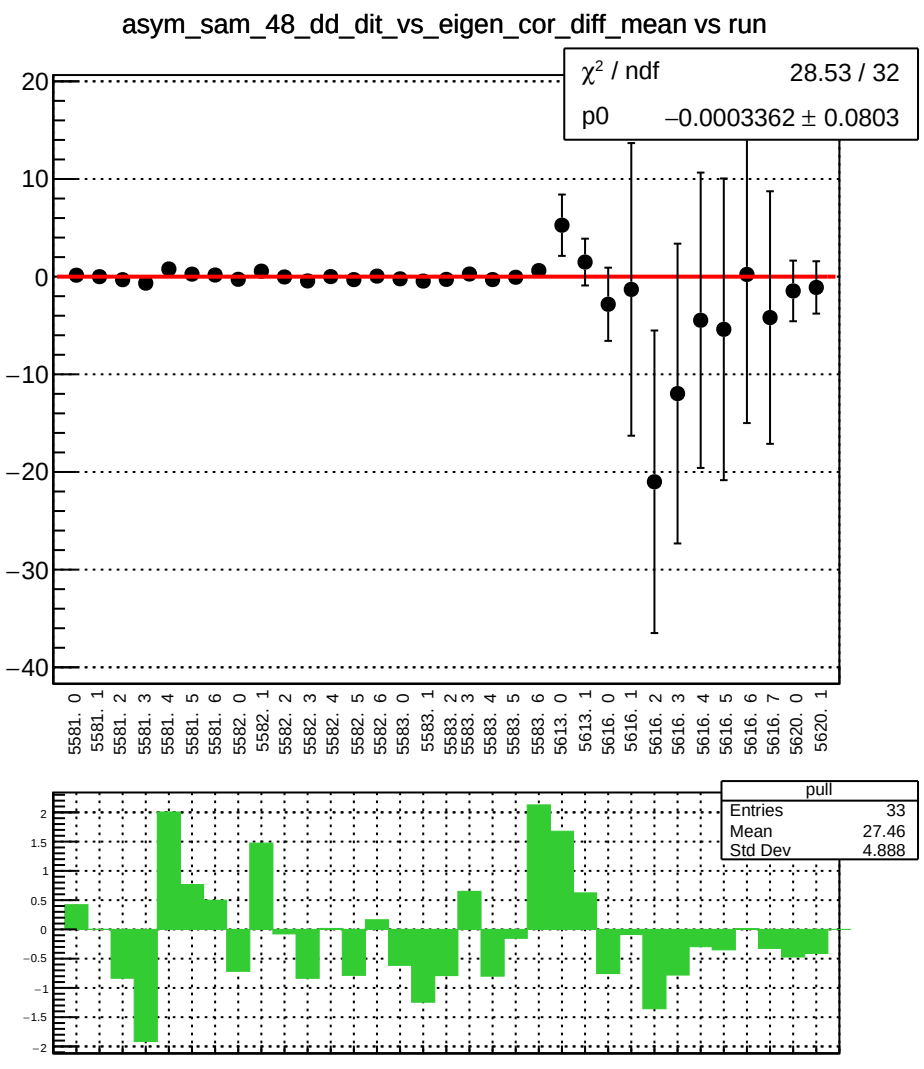

asym_sam_48_dd_rms vs run
χ² / ndf 6.731e+04 / 32
p0 850.7 ± 1.113
2400
2200
2000
1800
1600
1400
1200
1000
800
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

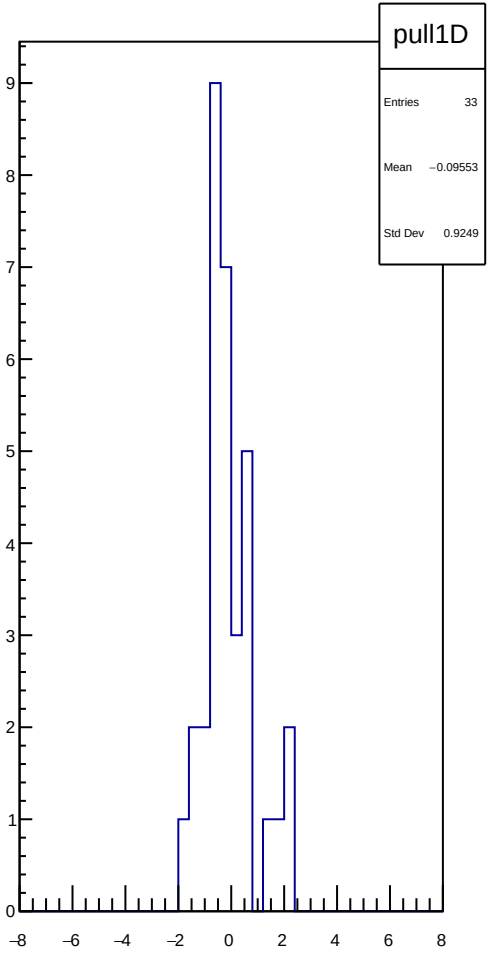

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 25.52 / 32
p0 −2.662e−14 ± 9.105e−14
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1477
Std Dev 0.8669
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

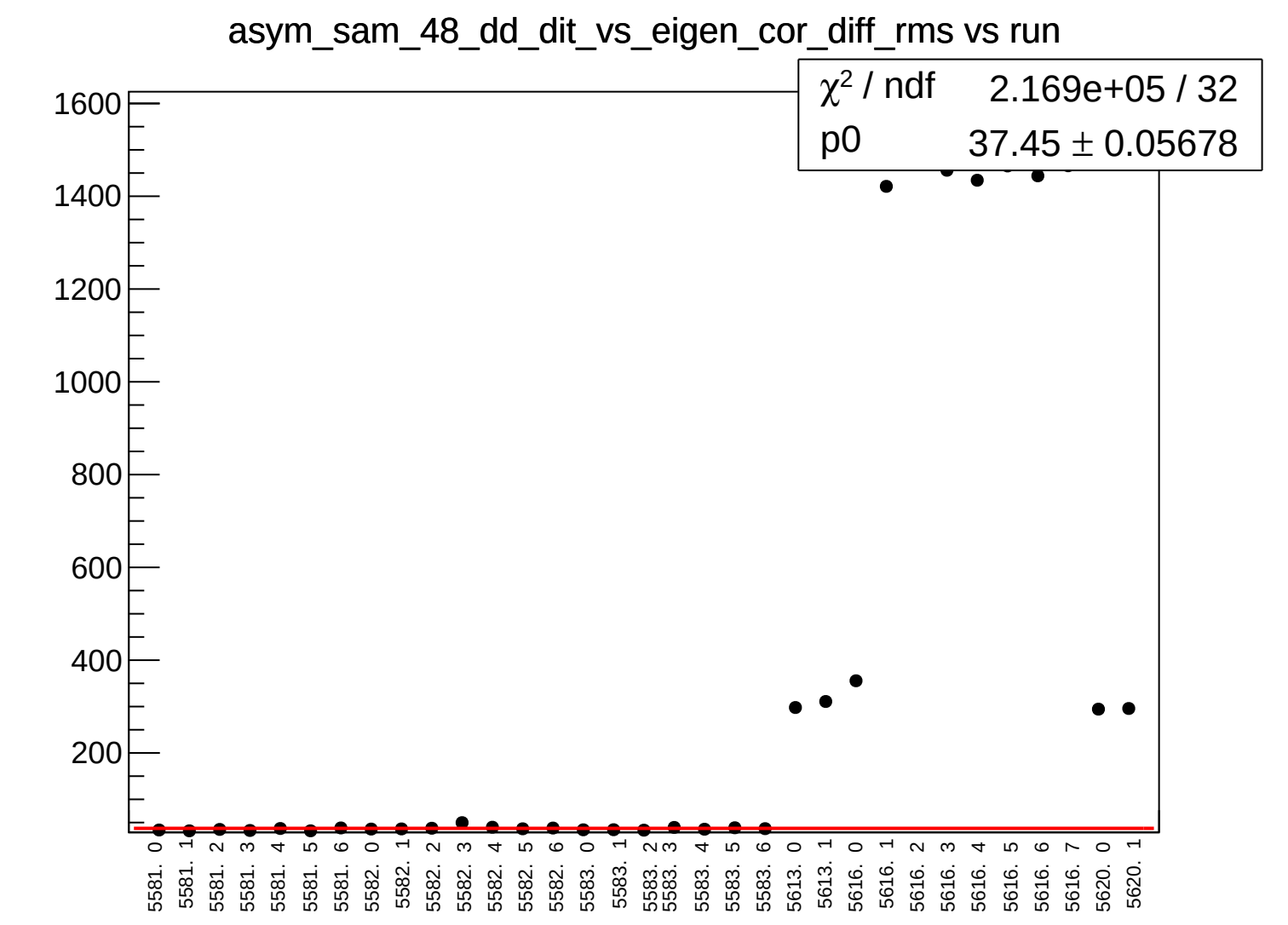

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.356e+05 / 32
p0 3.621e−11 ± 6.439e−14
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

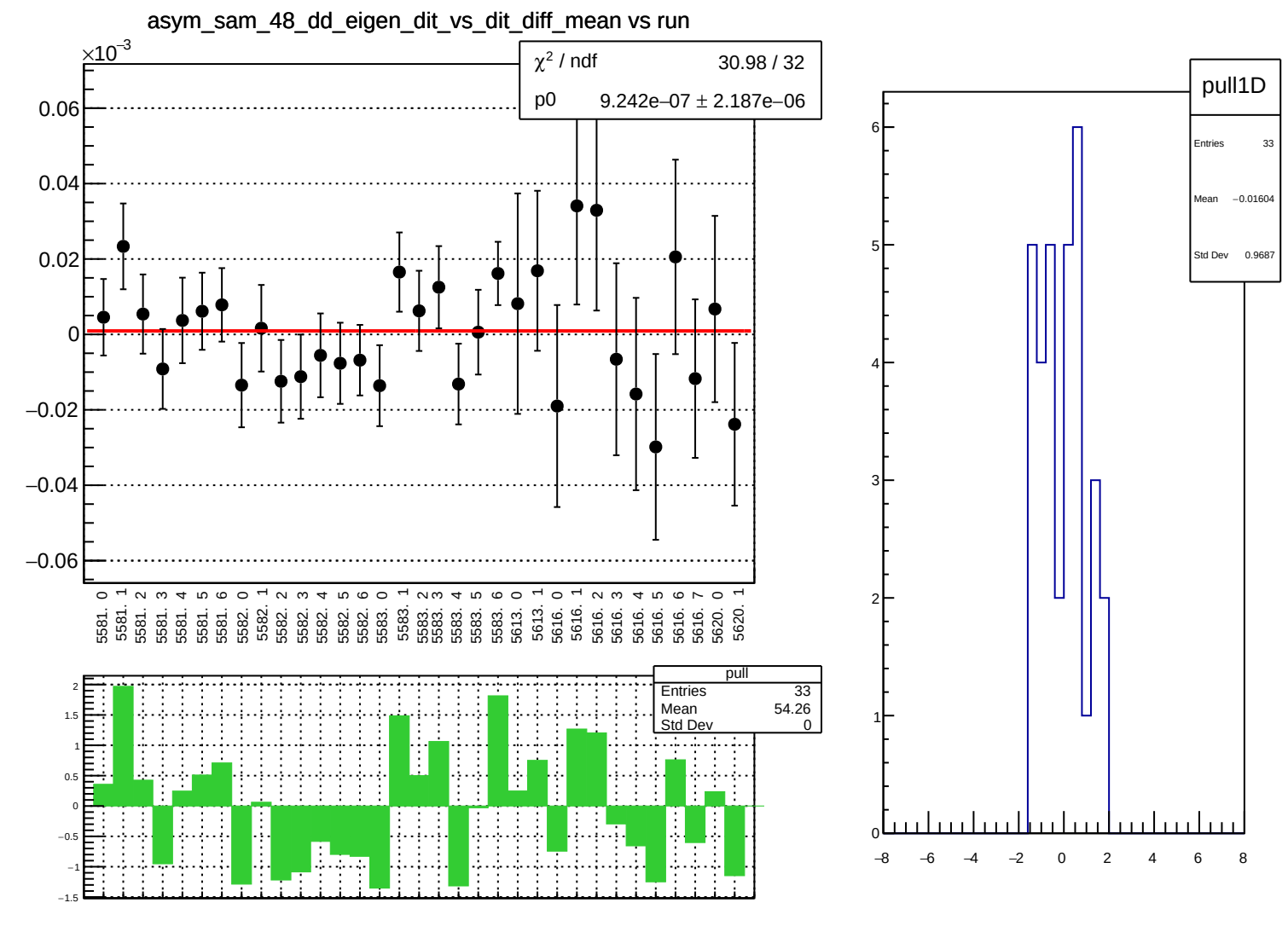

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 28.53 / 32
p0 −0.0003362 ± 0.0803
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.46
Std Dev 4.888
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.09553
Std Dev 0.9249
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

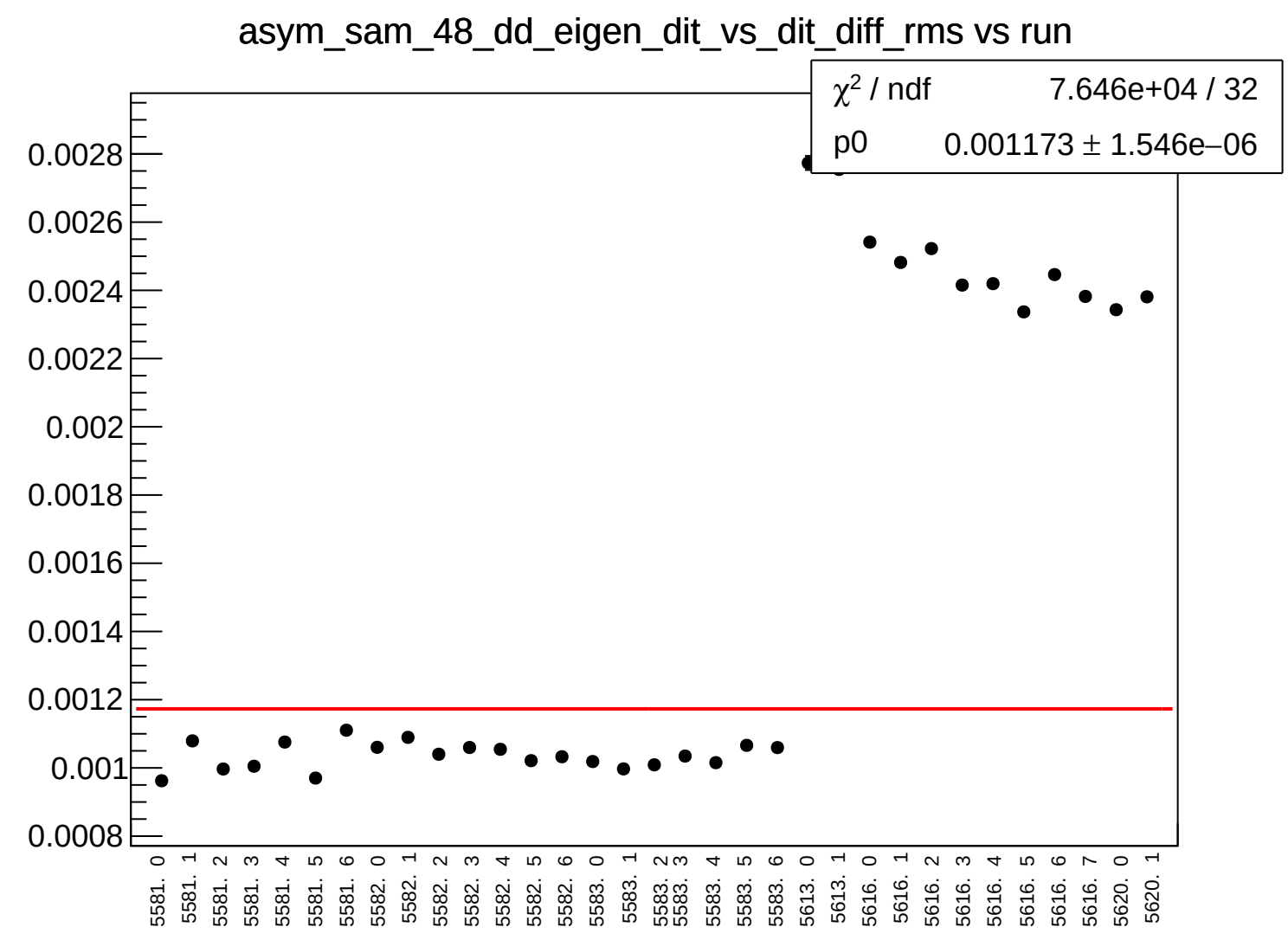

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.169e+05 / 32
p0 37.45 ± 0.05678
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

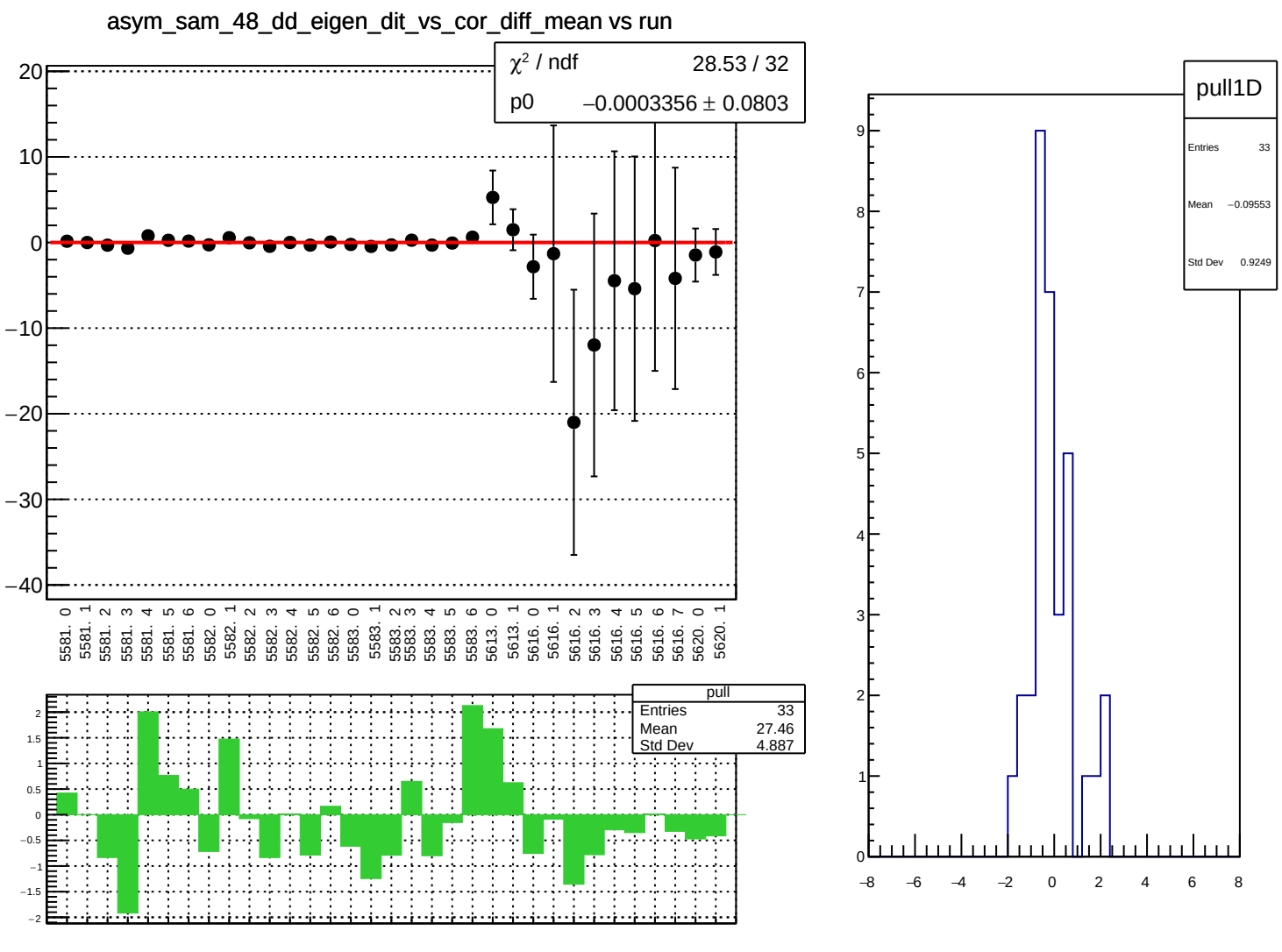

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.53 / 32
p0 −0.0003362 ± 0.0803
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.46
Std Dev 4.888
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

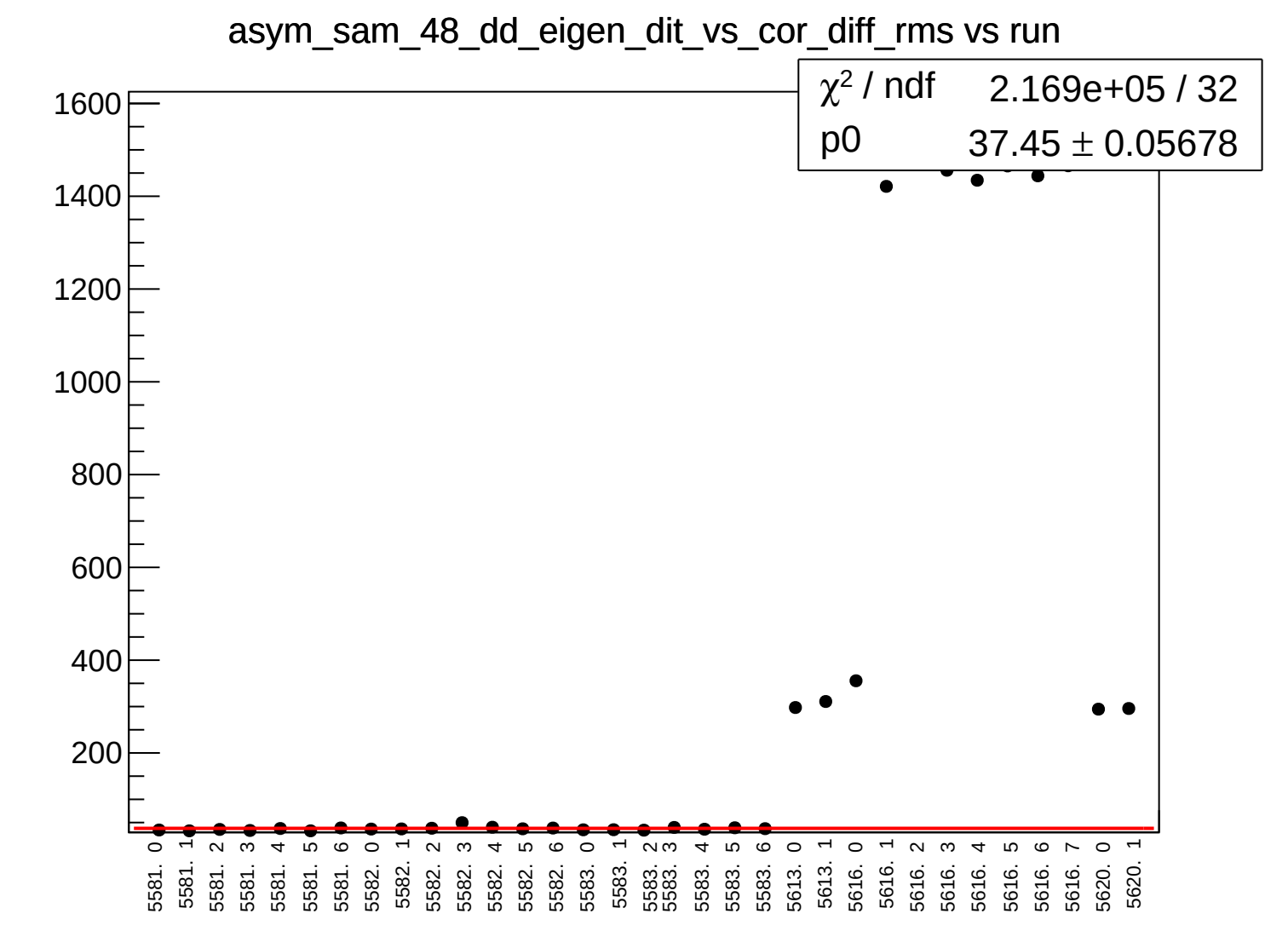

pull1D
Entries 33
Mean −0.09553
Std Dev 0.9249
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

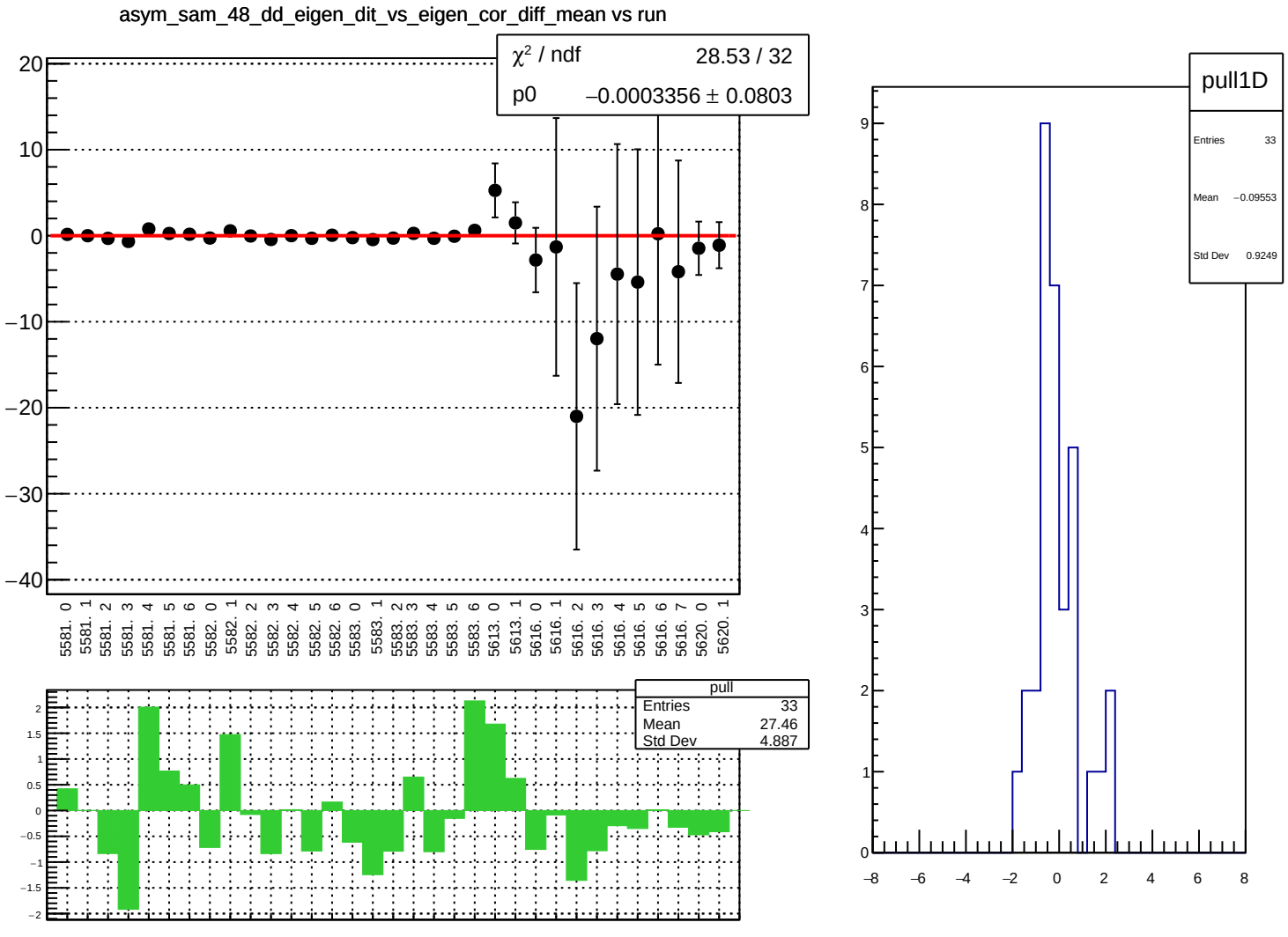

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.169e+05 / 32
p0 37.45 ± 0.05678
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

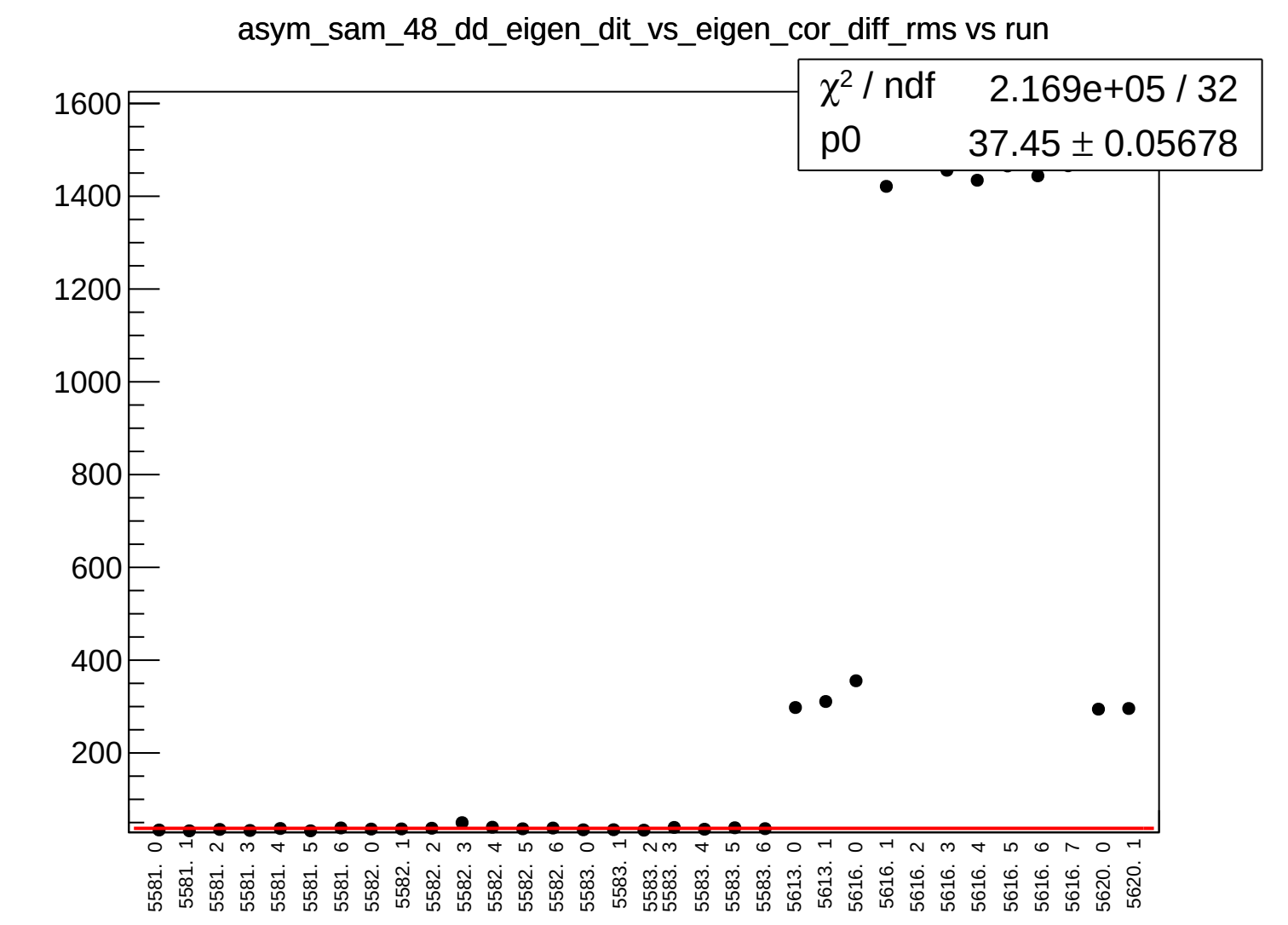

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.98 / 32
p0 9.242e−07 ± 2.187e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 54.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.01604
Std Dev 0.9687
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

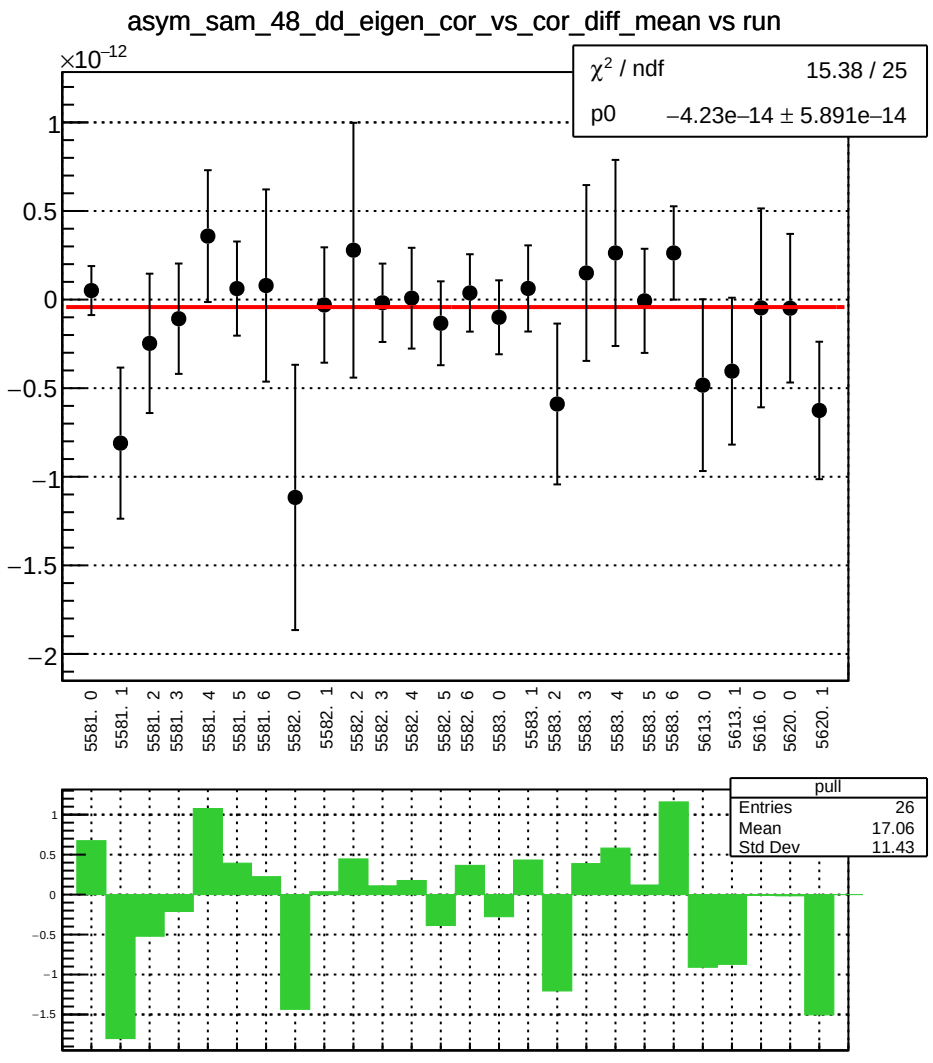

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.646e+04 / 32
p0 0.001173 ± 1.546e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

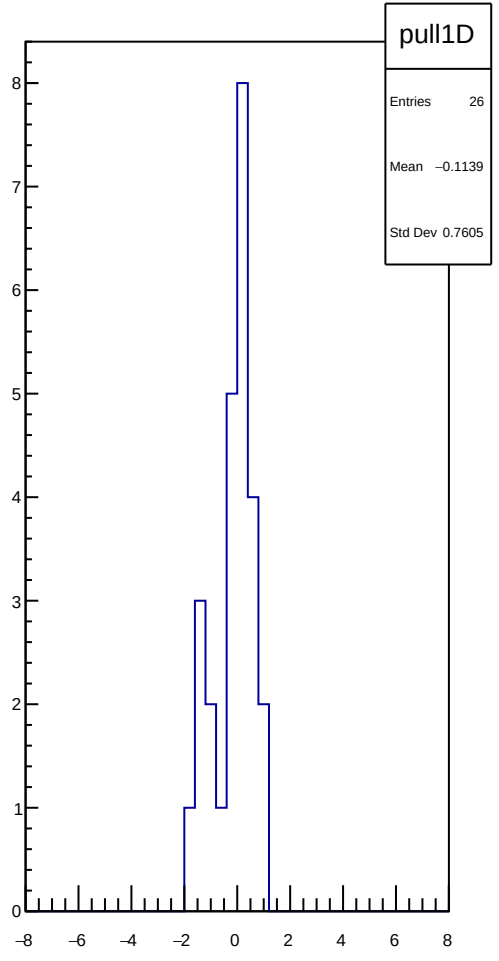

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 28.53 / 32
p0 −0.0003356 ± 0.0803
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.46
Std Dev 4.887
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.09553
Std Dev 0.9249
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

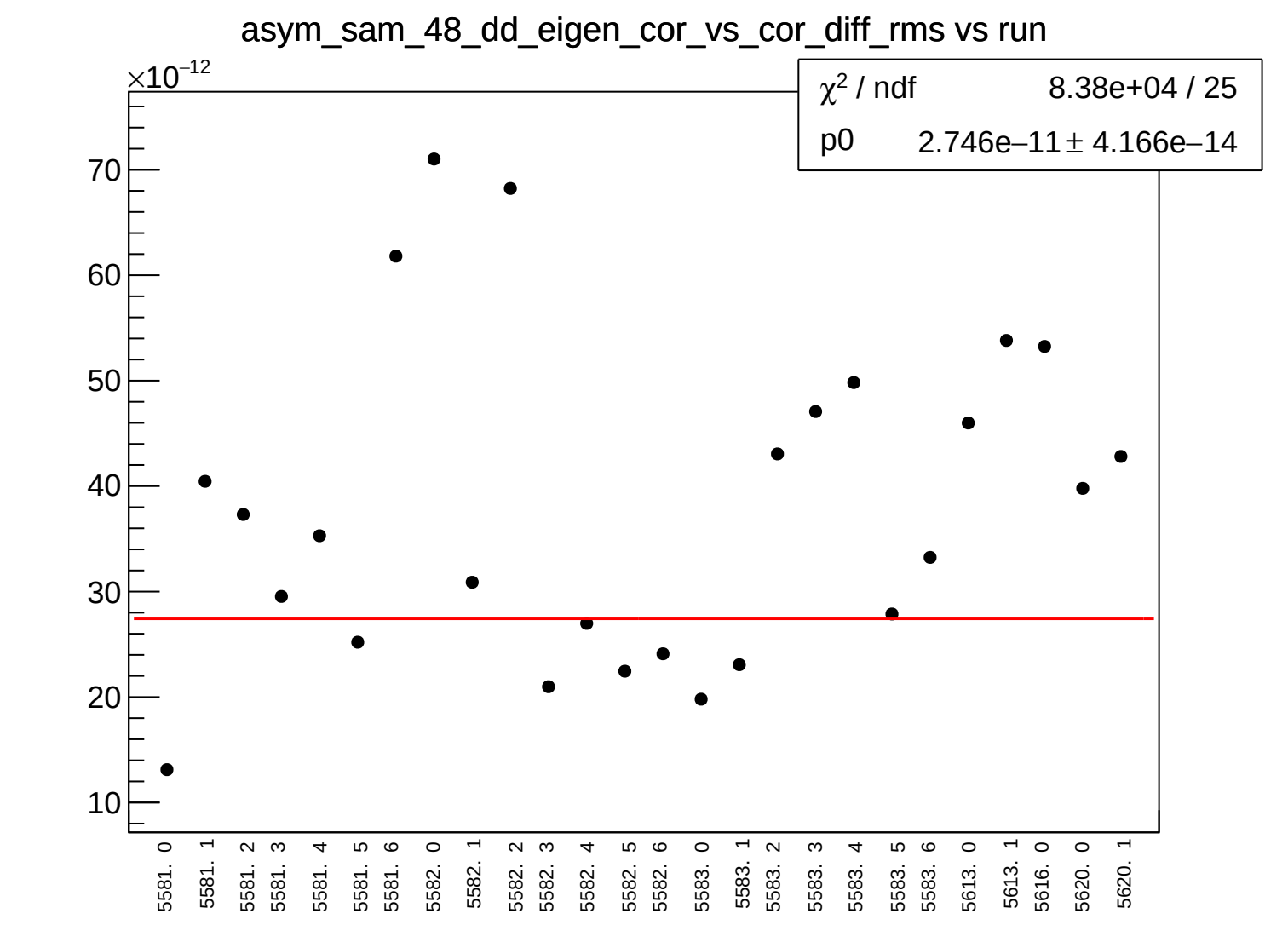

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.169e+05 / 32
p0 37.45 ± 0.05678
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

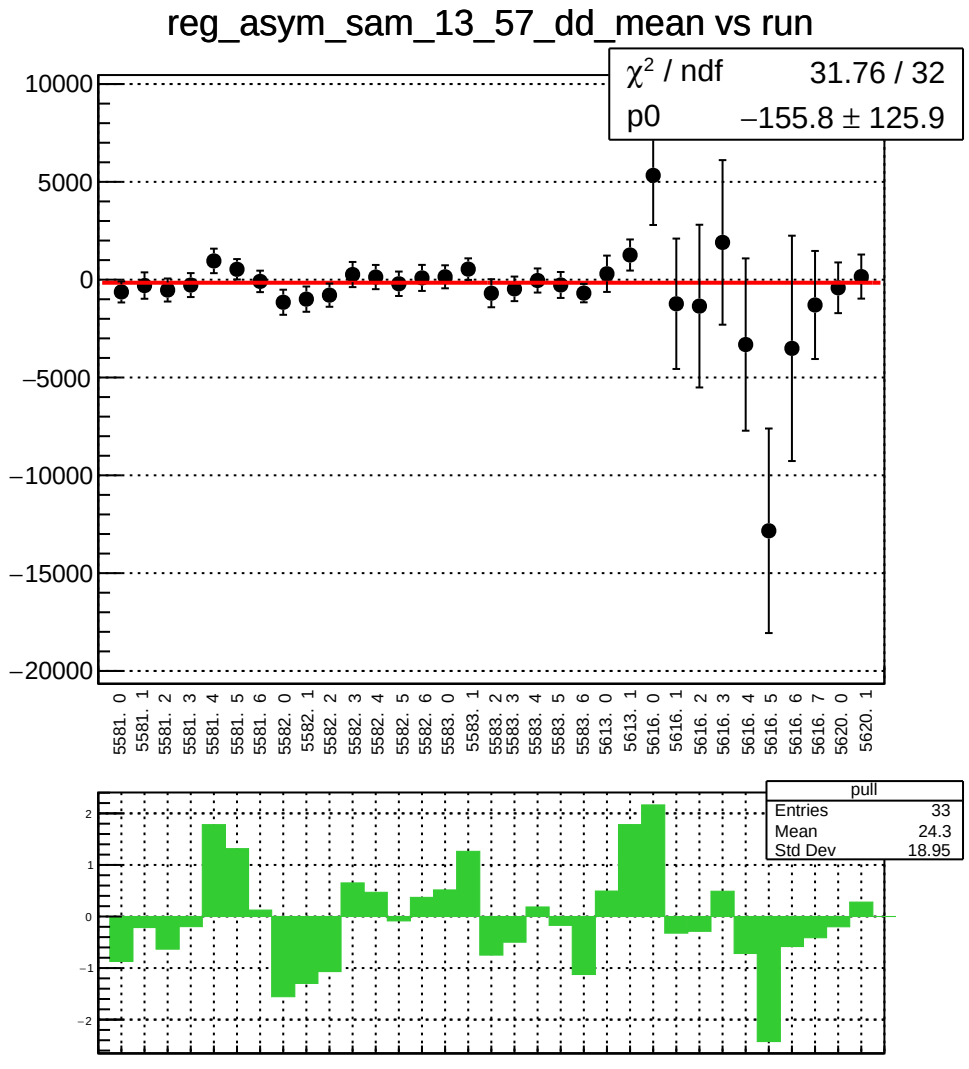

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 28.53 / 32
p0 −0.0003356 ± 0.0803
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.46
Std Dev 4.887
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.09553
Std Dev 0.9249
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

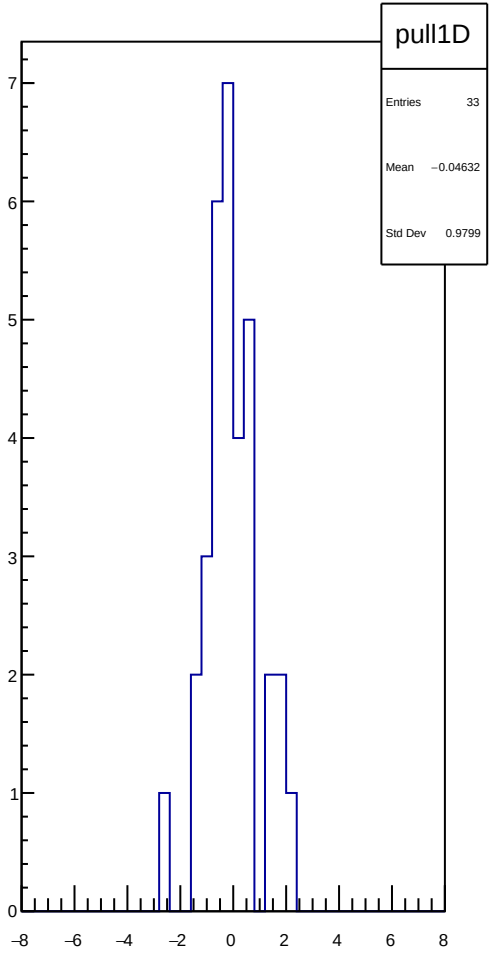

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.169e+05 / 32
p0 37.45 ± 0.05678
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

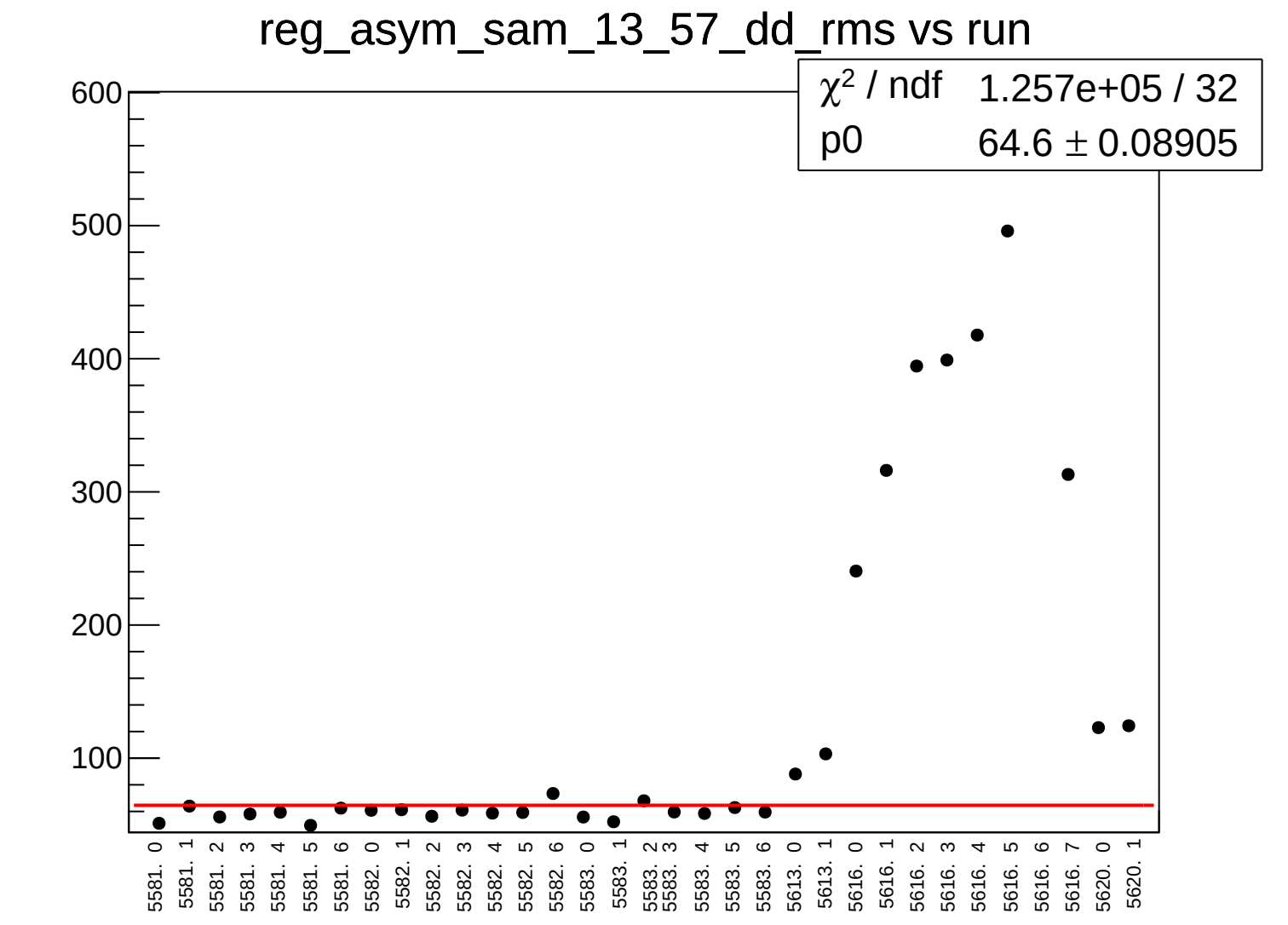

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 15.38 / 25
p0 −4.23e−14 ± 5.891e−14
1
0.5
0
−0.5
−1
−1.5
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 17.06
Std Dev 11.43
1
0.5
0
−0.5
−1
−1.5

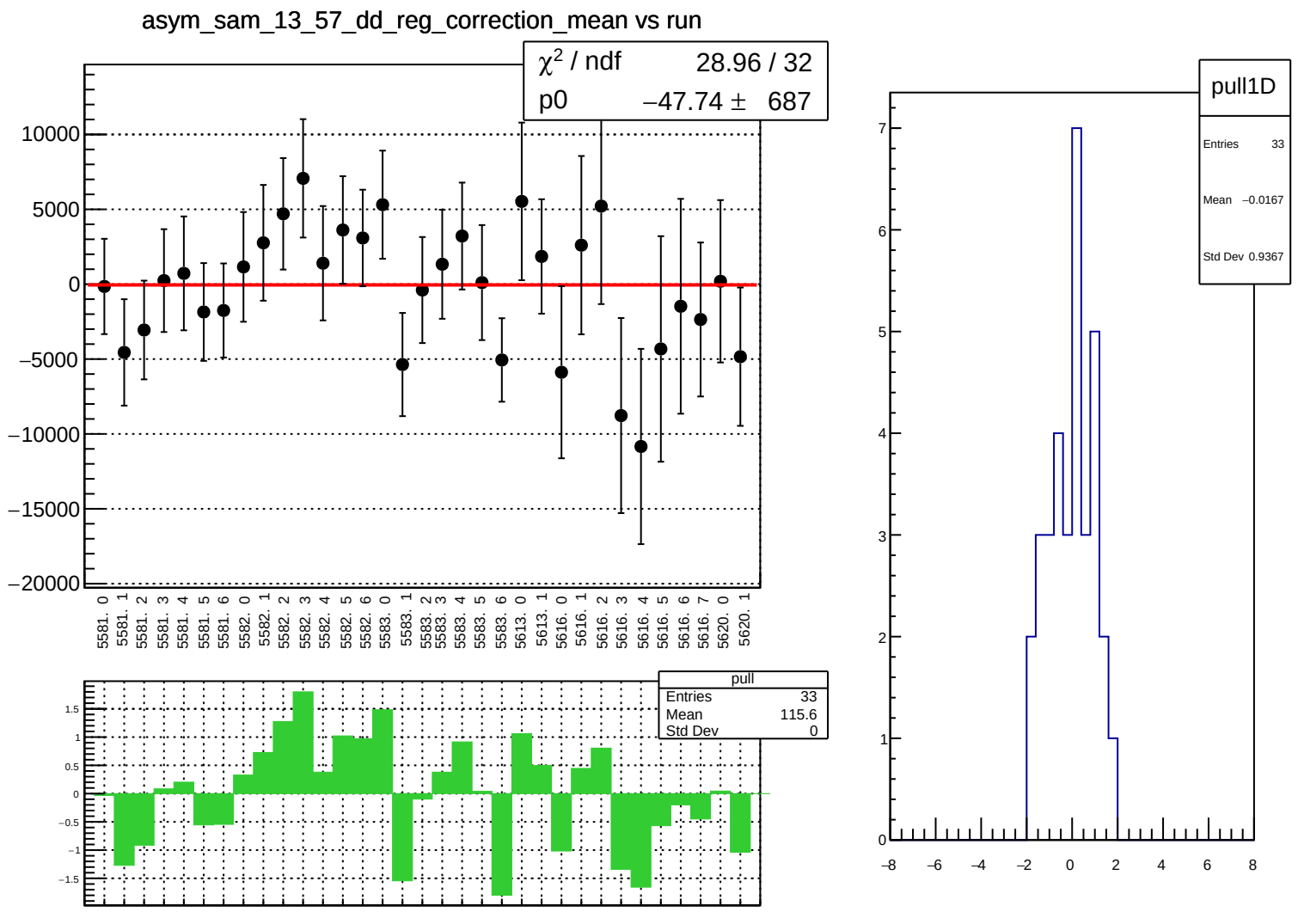

pull1D
Entries 26
Mean −0.1139
Std Dev 0.7605
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

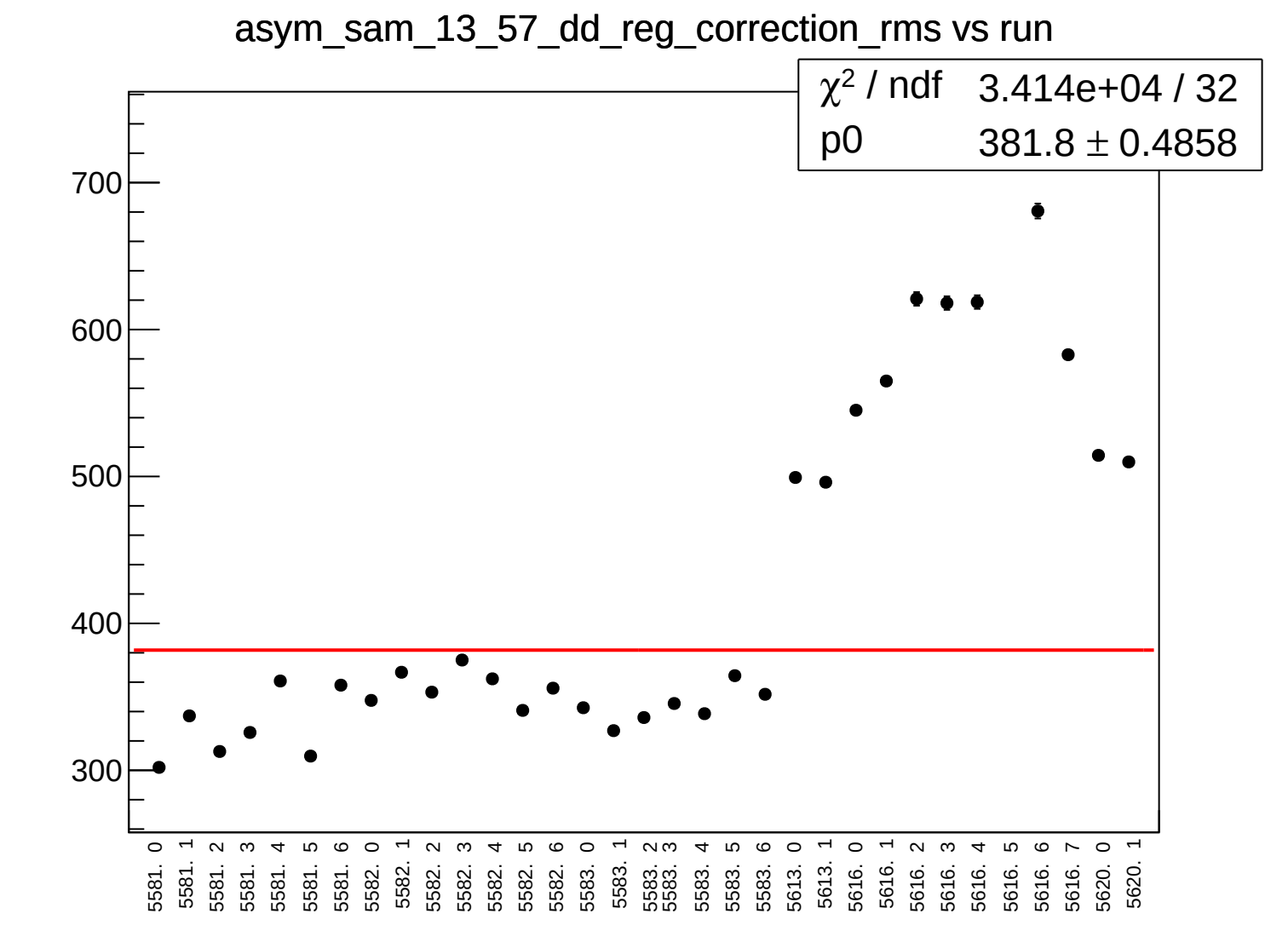

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 8.38e+04 / 25
p0 2.746e−11 ± 4.166e−14
70
60
50
40
30
20
10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

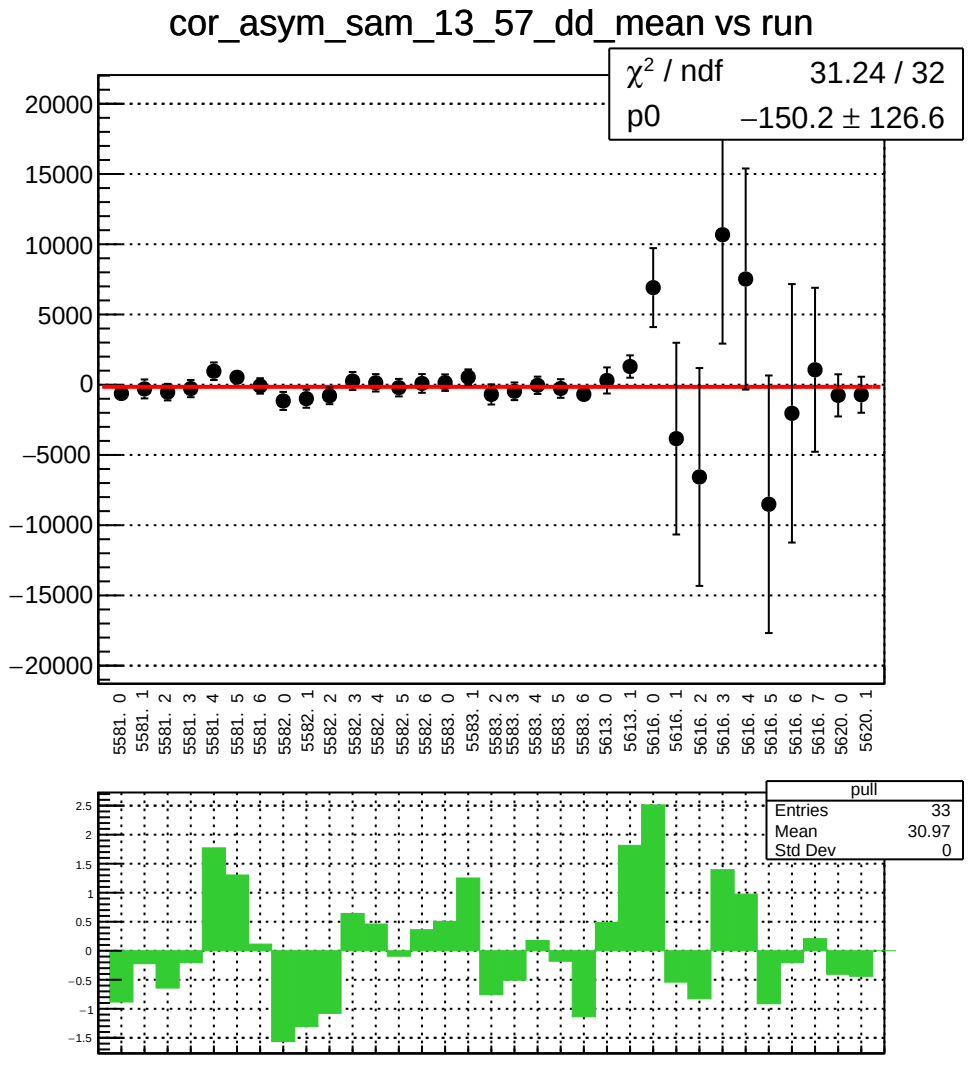

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 31.76 / 32
p0 −155.8 ± 125.9
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.3
Std Dev 18.95
2
1
0
−1
−2

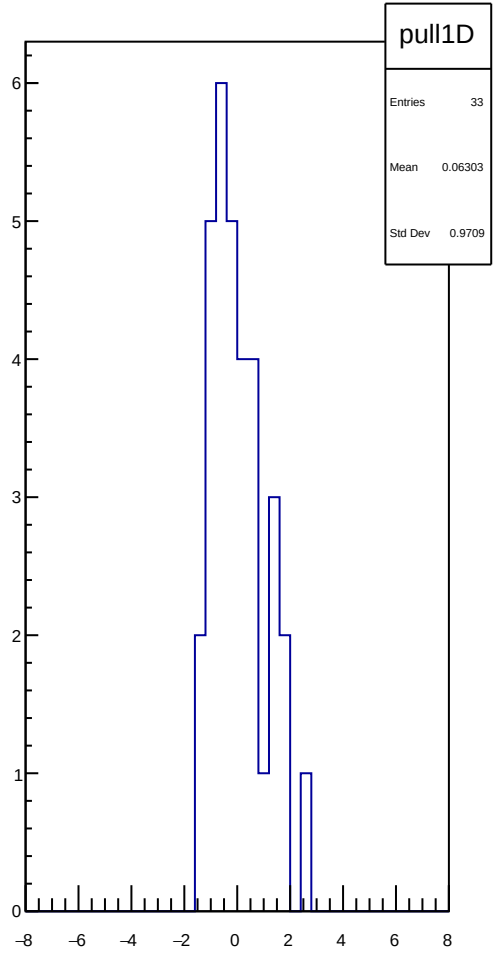

pull1D
Entries 33
Mean −0.04632
Std Dev 0.9799
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

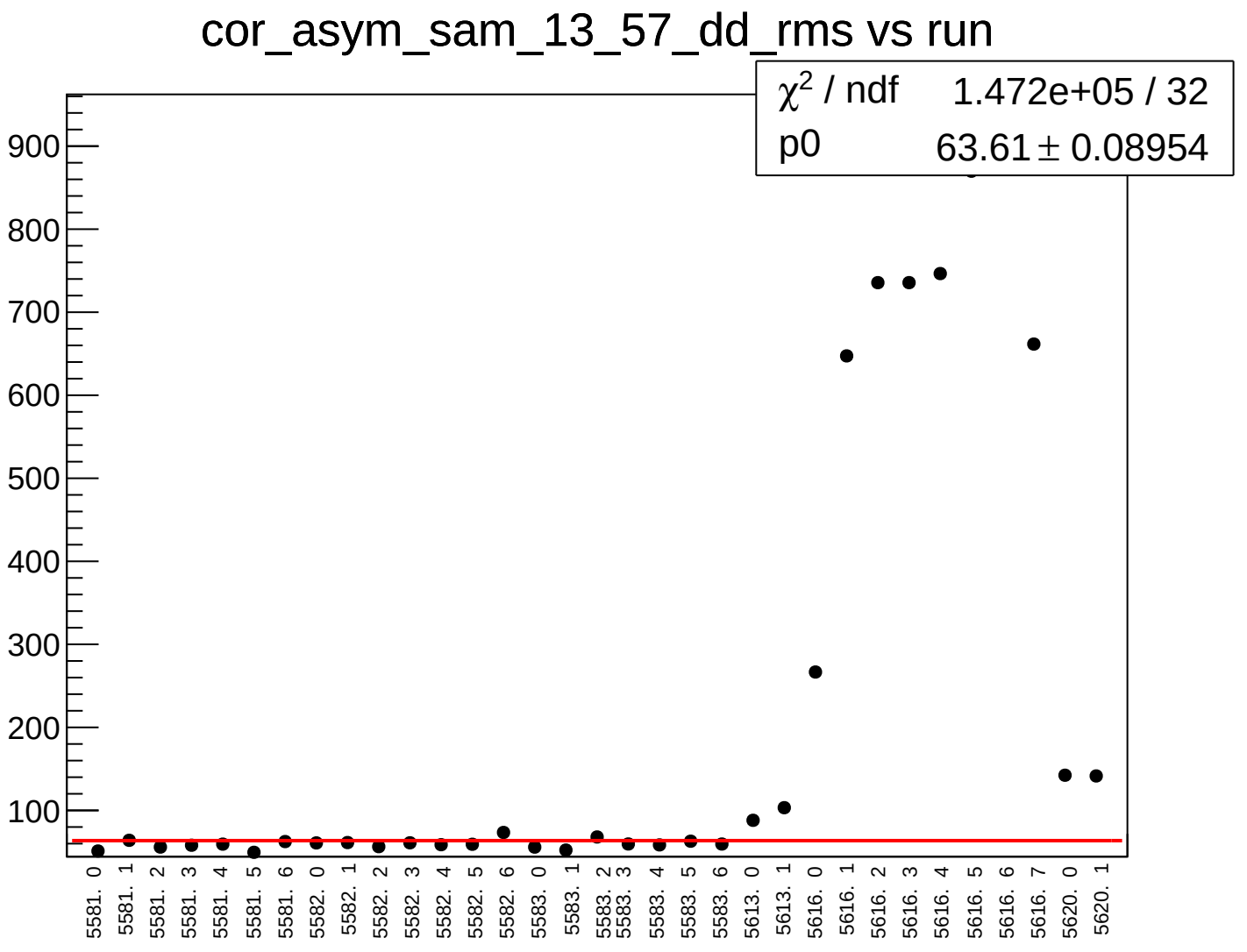

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.257e+05 / 32
p0 64.6 ± 0.08905
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

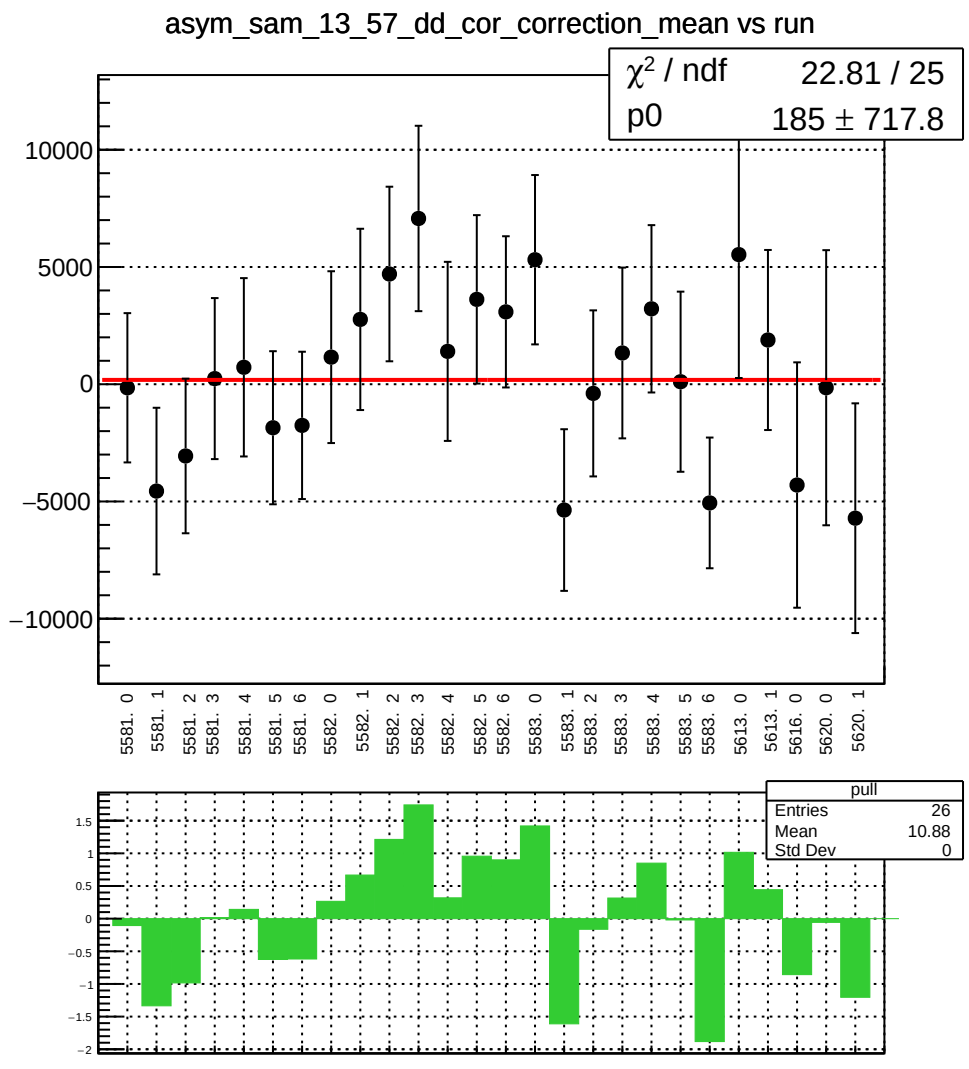

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 28.96 / 32
p0 −47.74 ± 687
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 115.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.0167
Std Dev 0.9367
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

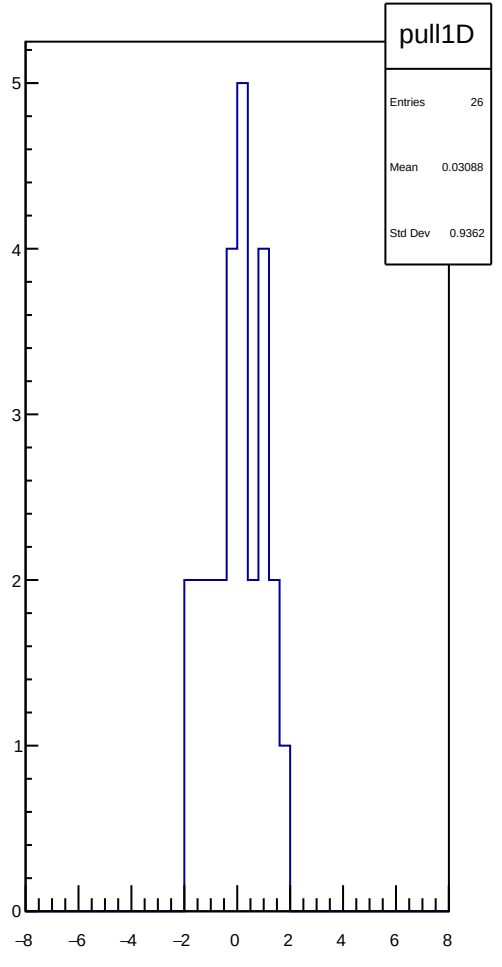

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 3.414e+04 / 32
p0 381.8 ± 0.4858
700
600
500
400
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

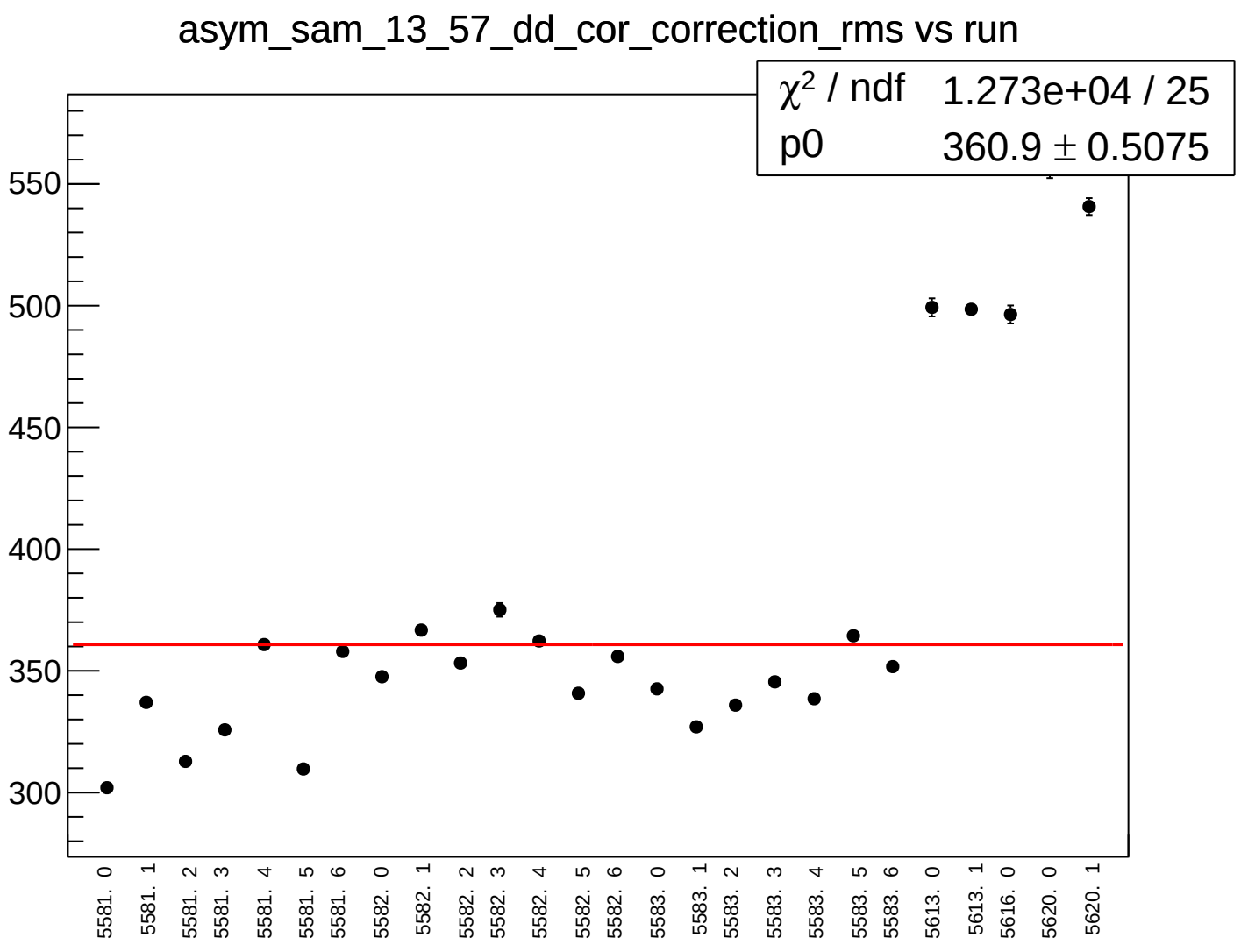

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 31.24 / 32
p0 −150.2 ± 126.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 30.97
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

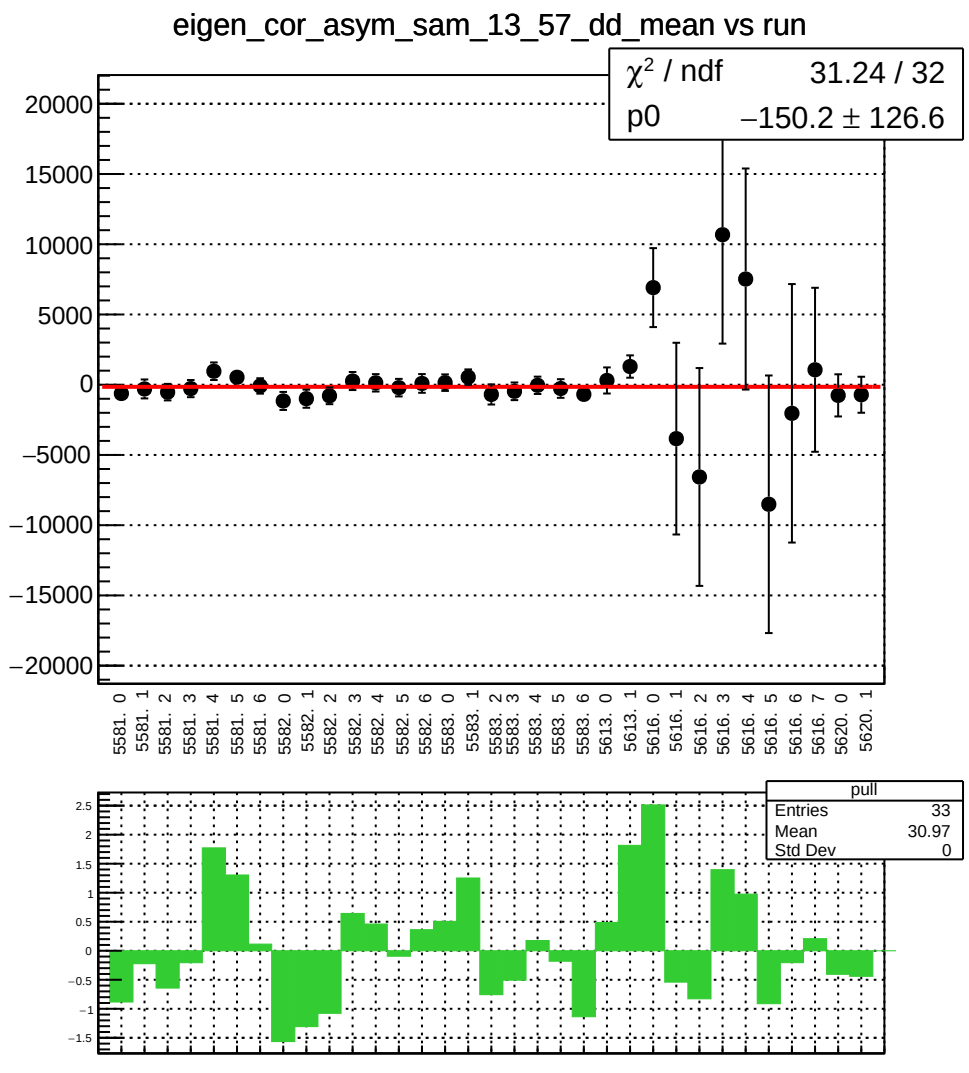

pull1D
Entries 33
Mean 0.06303
Std Dev 0.9709
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

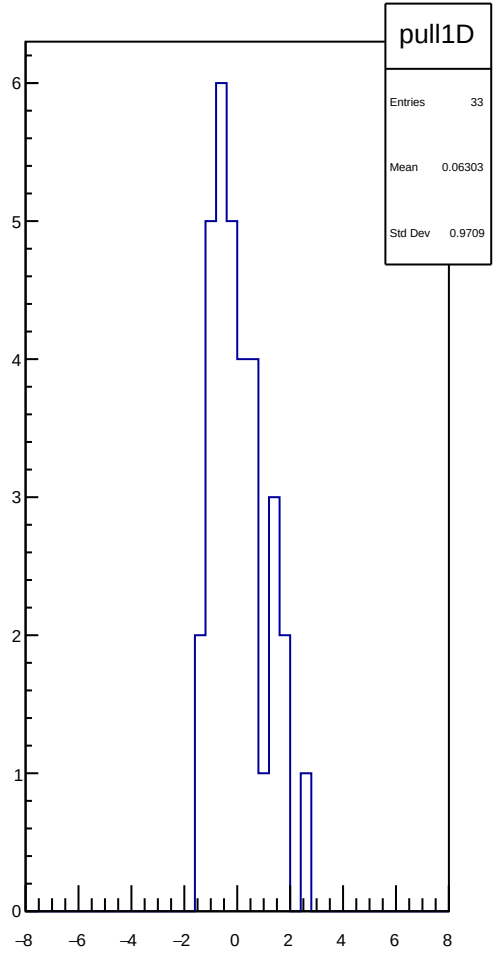

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.472e+05 / 32
p0 63.61 ± 0.08954
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

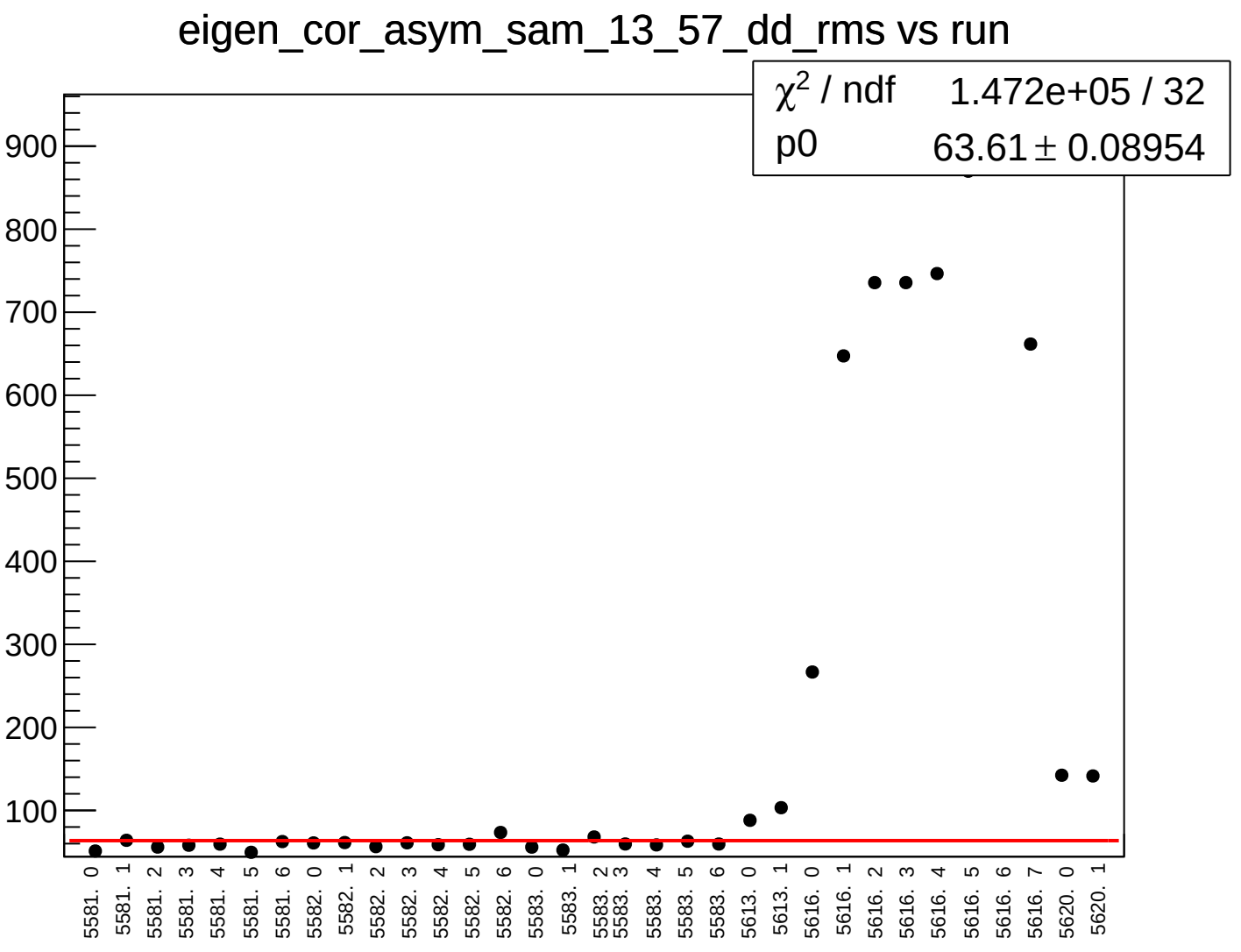

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 22.81 / 25
p0 185 ± 717.8
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 10.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

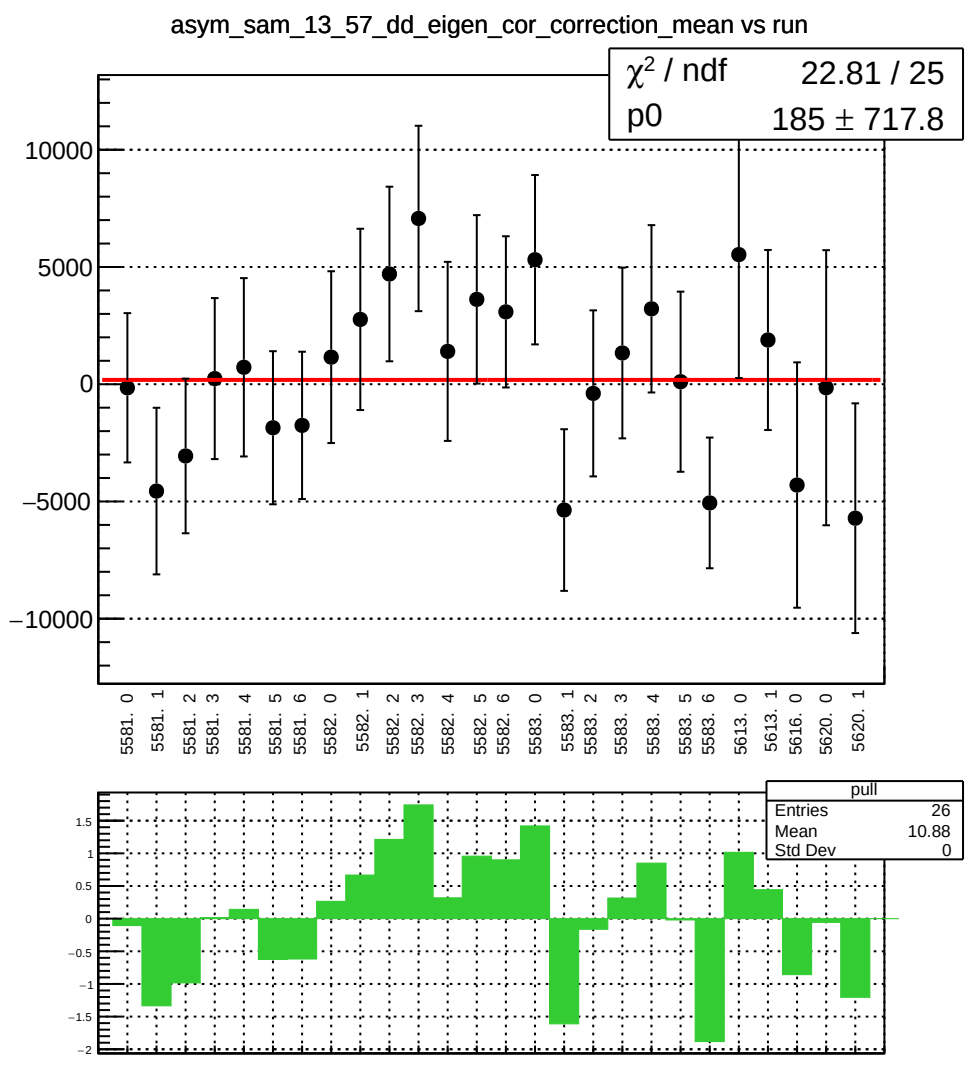

pull1D
Entries 26
Mean 0.03088
Std Dev 0.9362
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

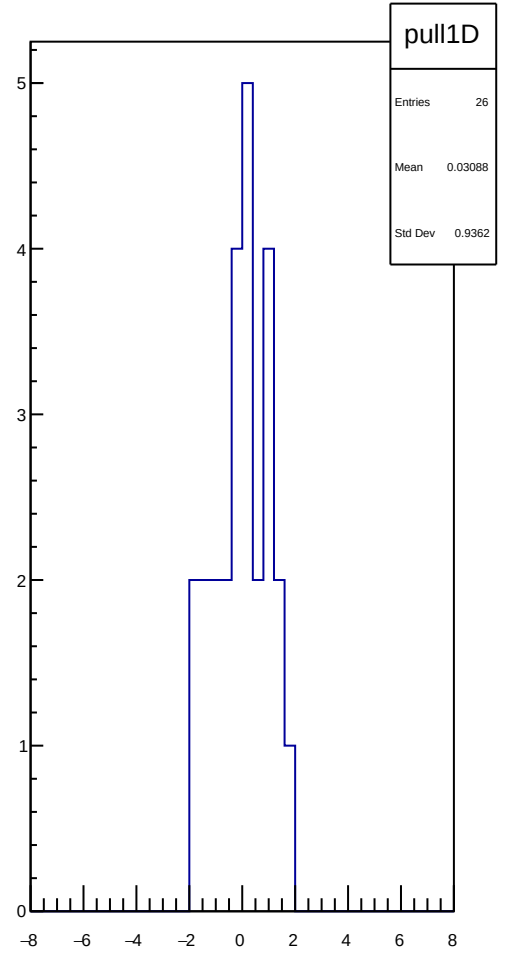

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 1.273e+04 / 25
p0 360.9 ± 0.5075
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

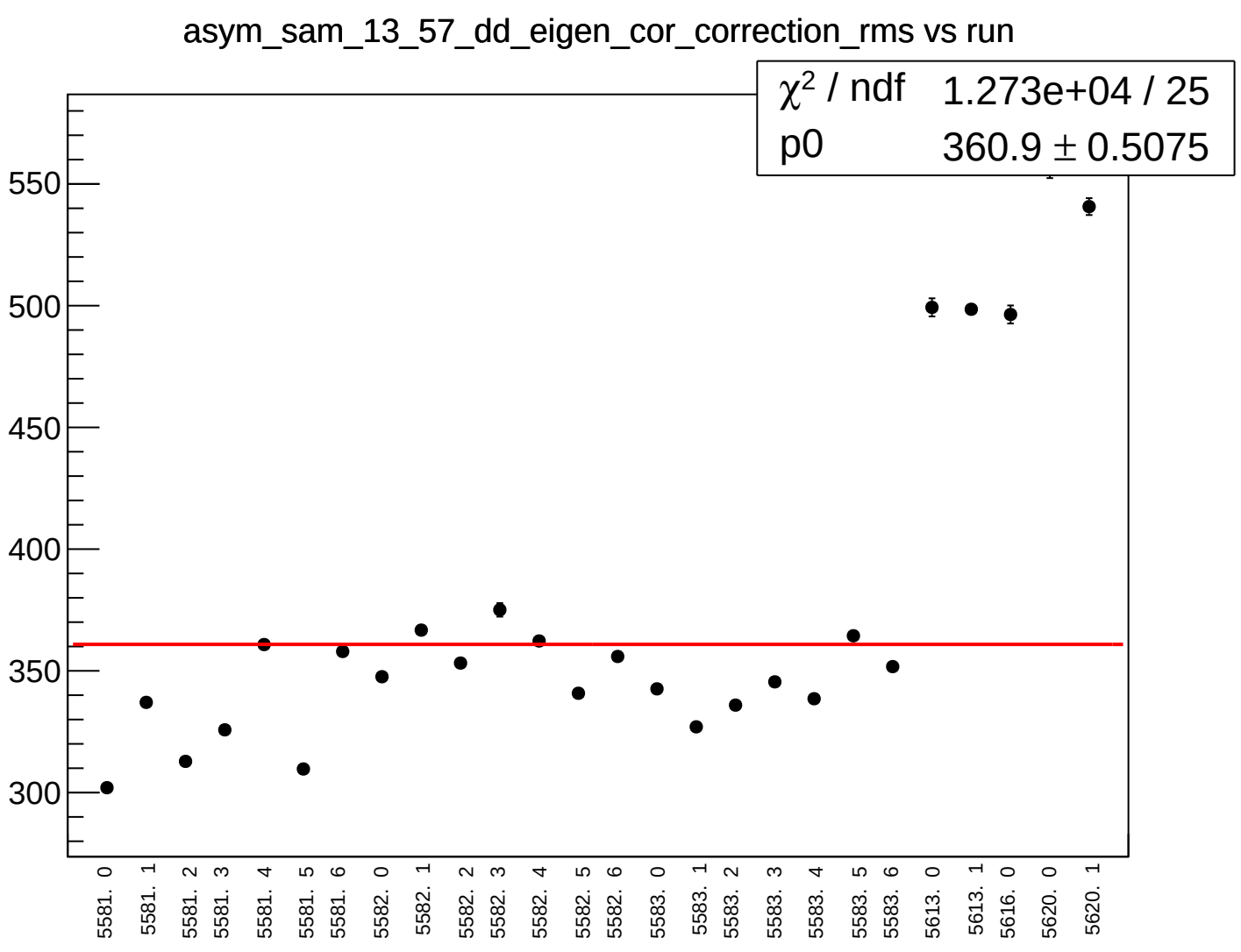

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 31.24 / 32
p0 −150.2 ± 126.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 30.97
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

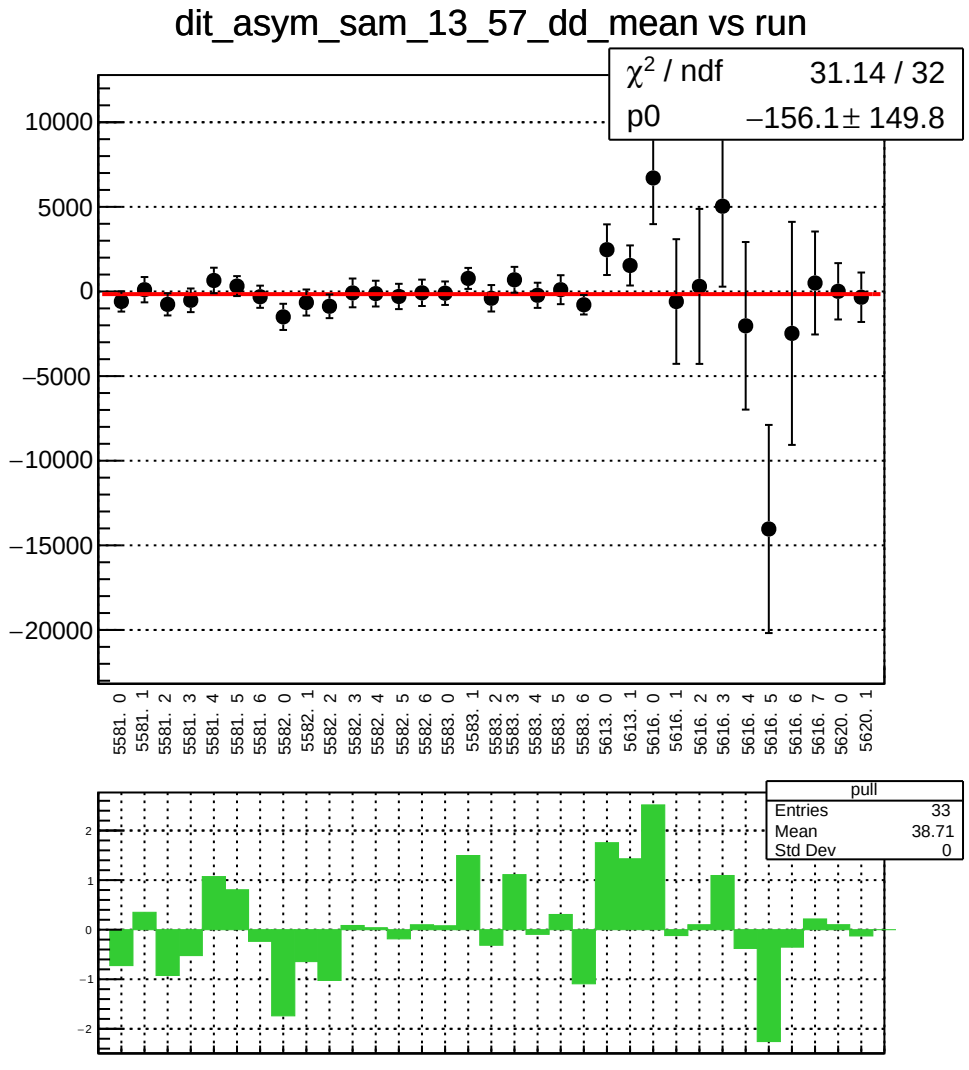

pull1D
Entries 33
Mean 0.06303
Std Dev 0.9709
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

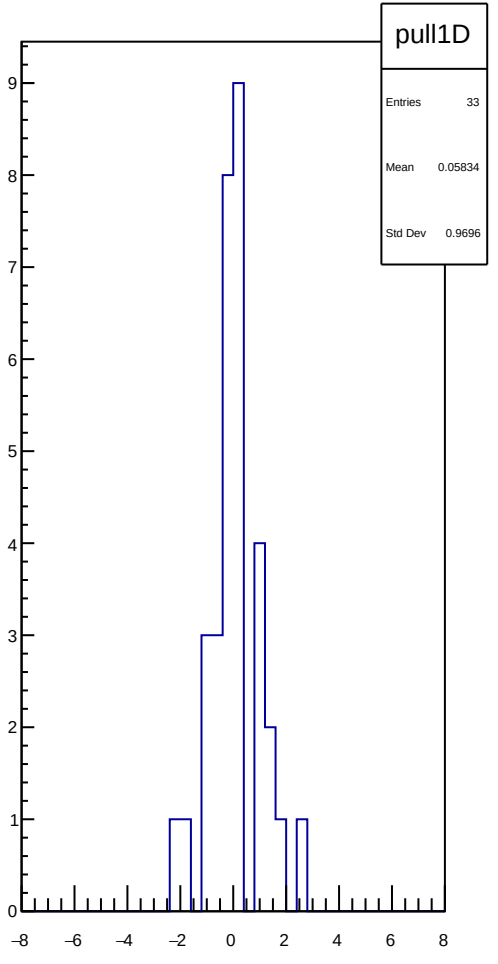

eigen_cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 1.472e+05 / 32
p0 63.61 ± 0.08954
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

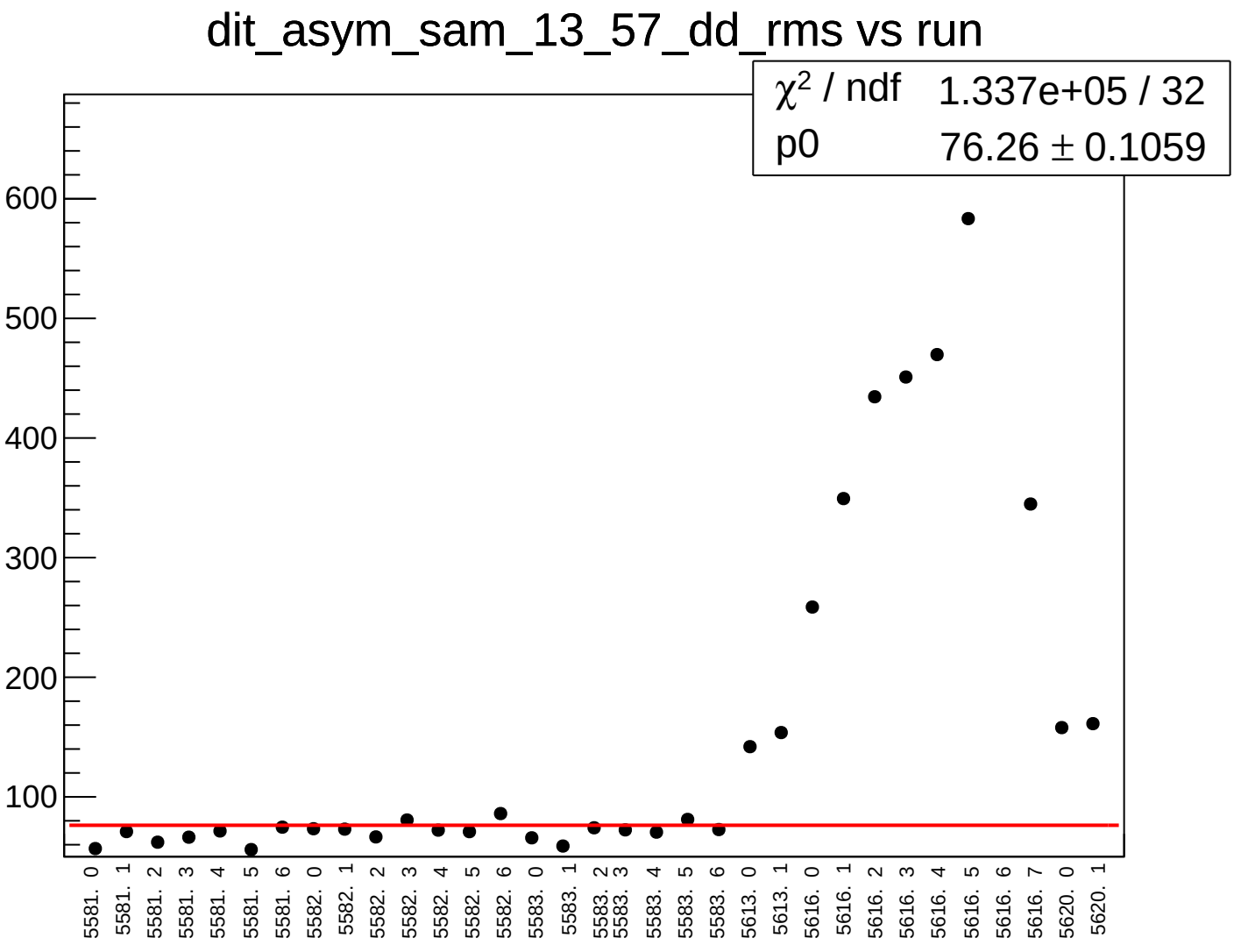

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 22.81 / 25
p0 185 ± 717.8
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 10.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

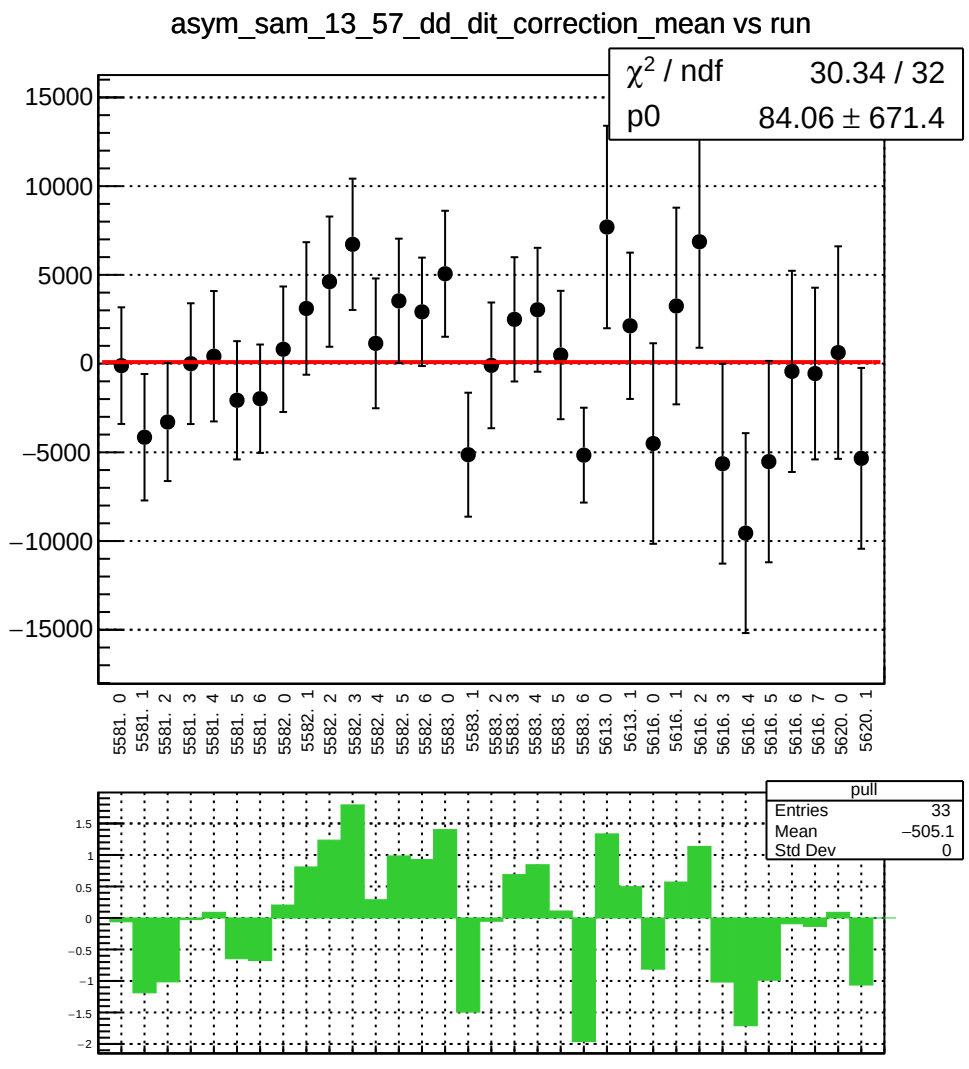

pull1D
Entries 26
Mean 0.03088
Std Dev 0.9362
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

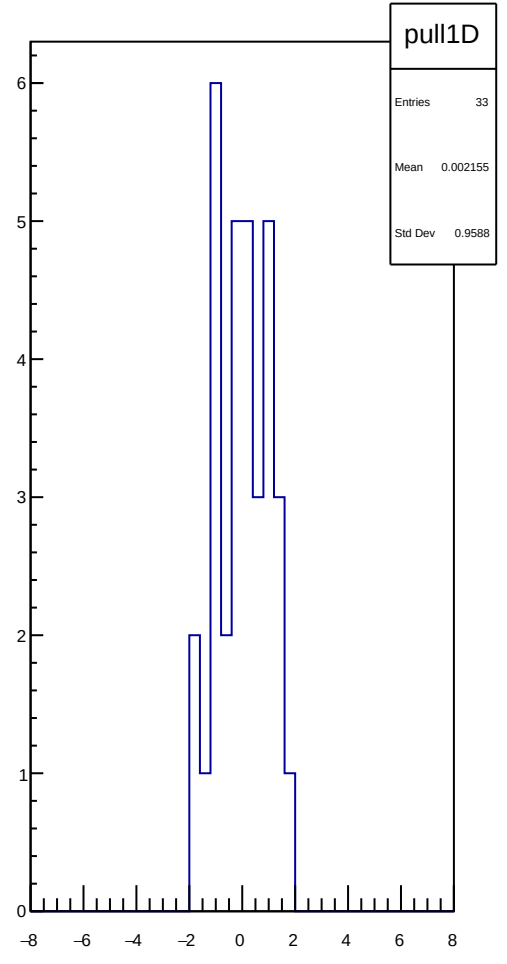

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.273e+04 / 25
p0 360.9 ± 0.5075
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

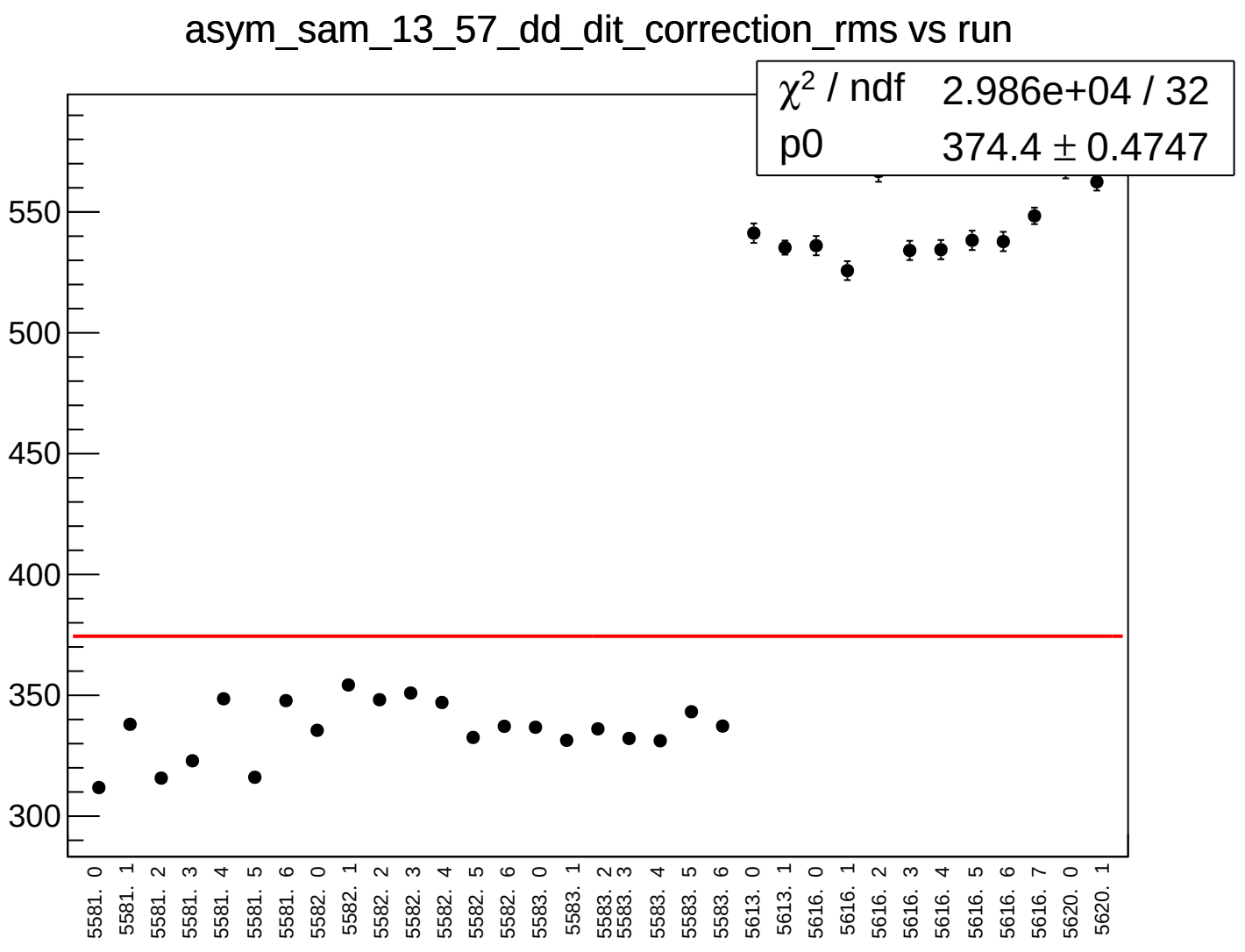

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 31.14 / 32
p0 −156.1± 149.8
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.71
Std Dev 0
2
1
0
−1
−2

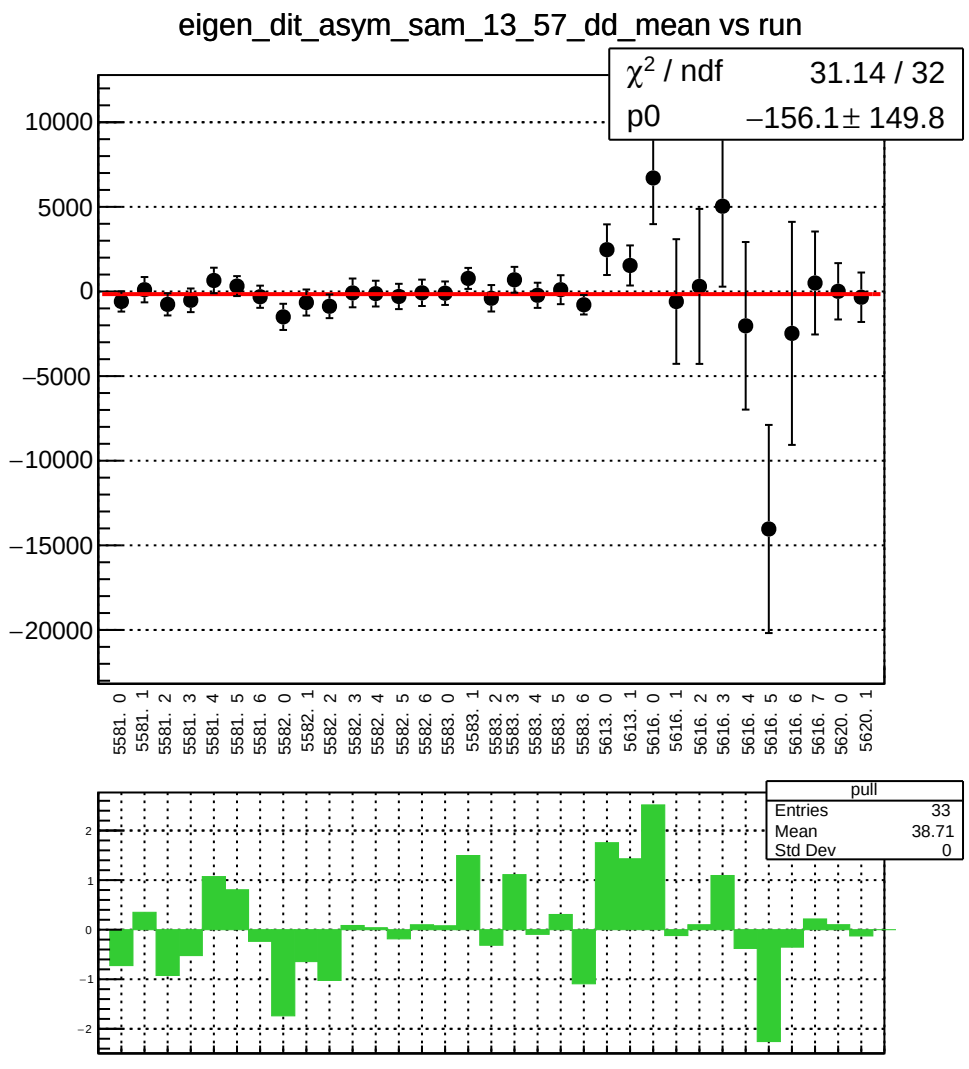

pull1D
Entries 33
Mean 0.05834
Std Dev 0.9696
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

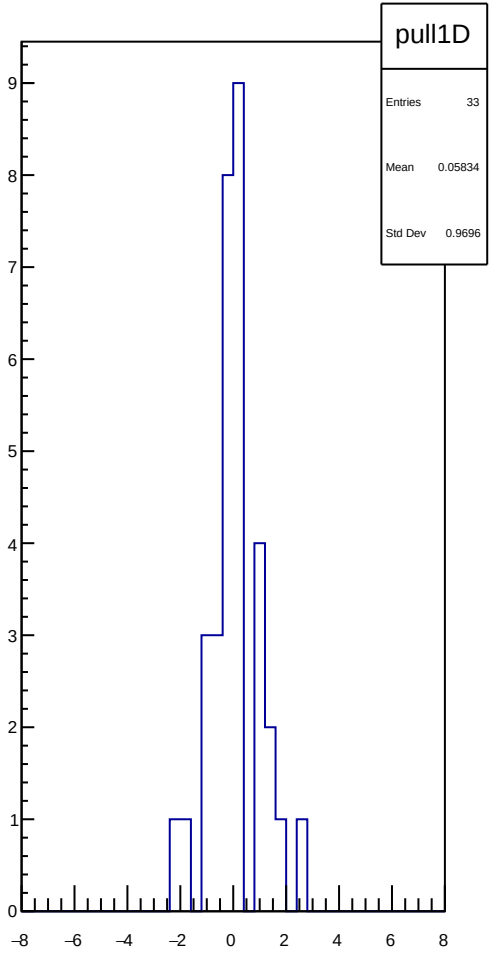

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.337e+05 / 32
p0 76.26 ± 0.1059
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

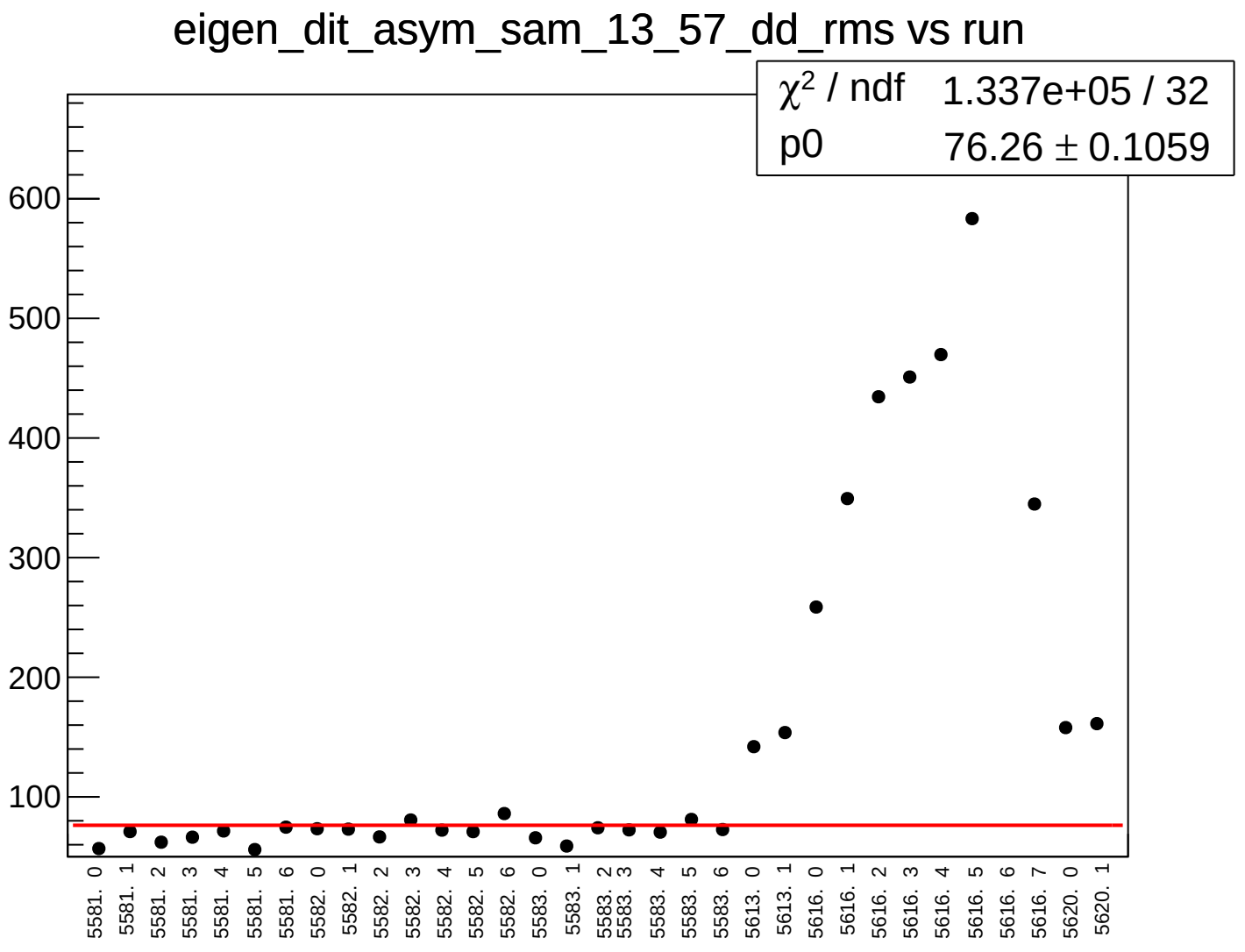

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 30.34 / 32
p0 84.06 ± 671.4
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −505.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

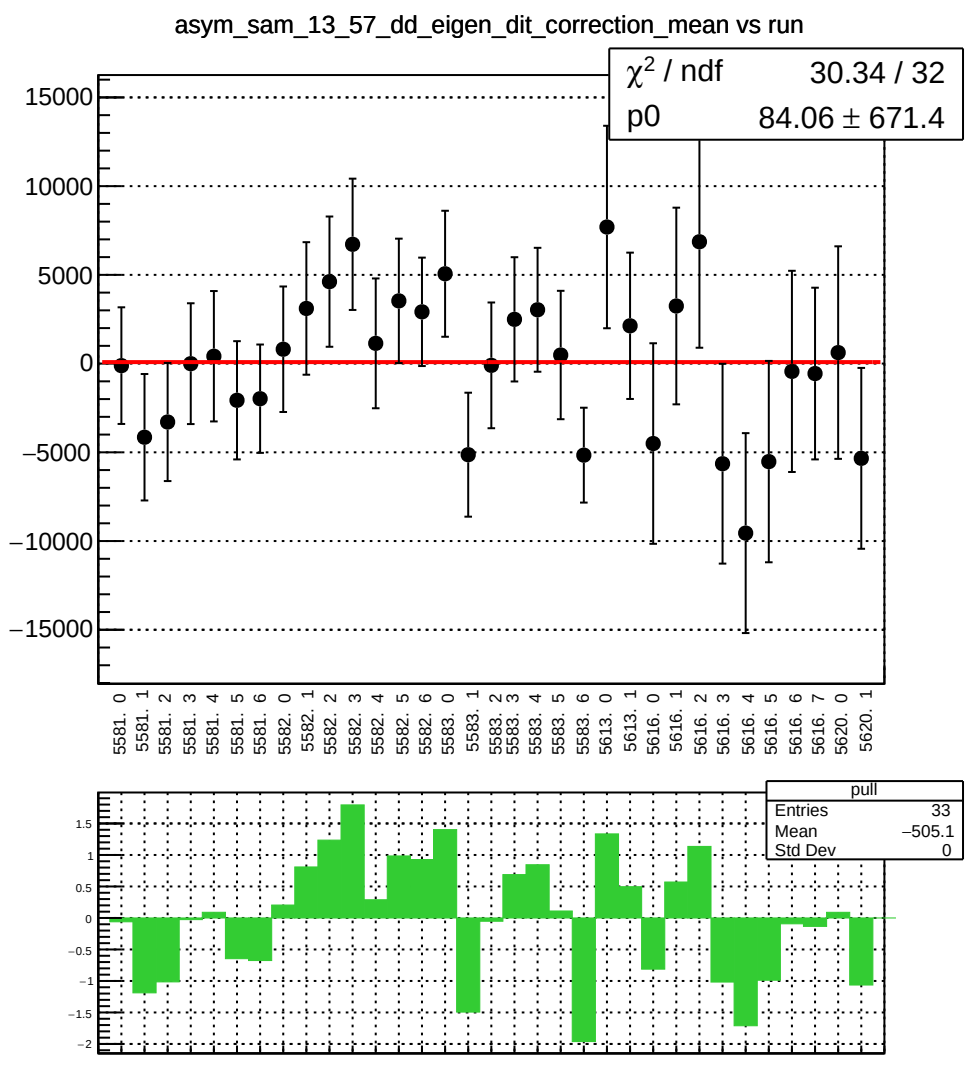

pull1D
Entries 33
Mean 0.002155
Std Dev 0.9588
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

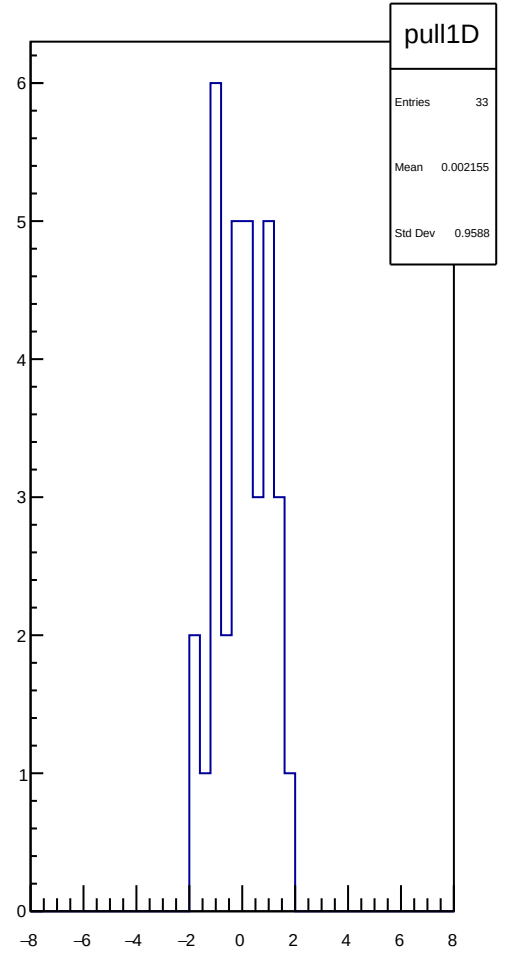

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 2.986e+04 / 32
p0 374.4 ± 0.4747
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

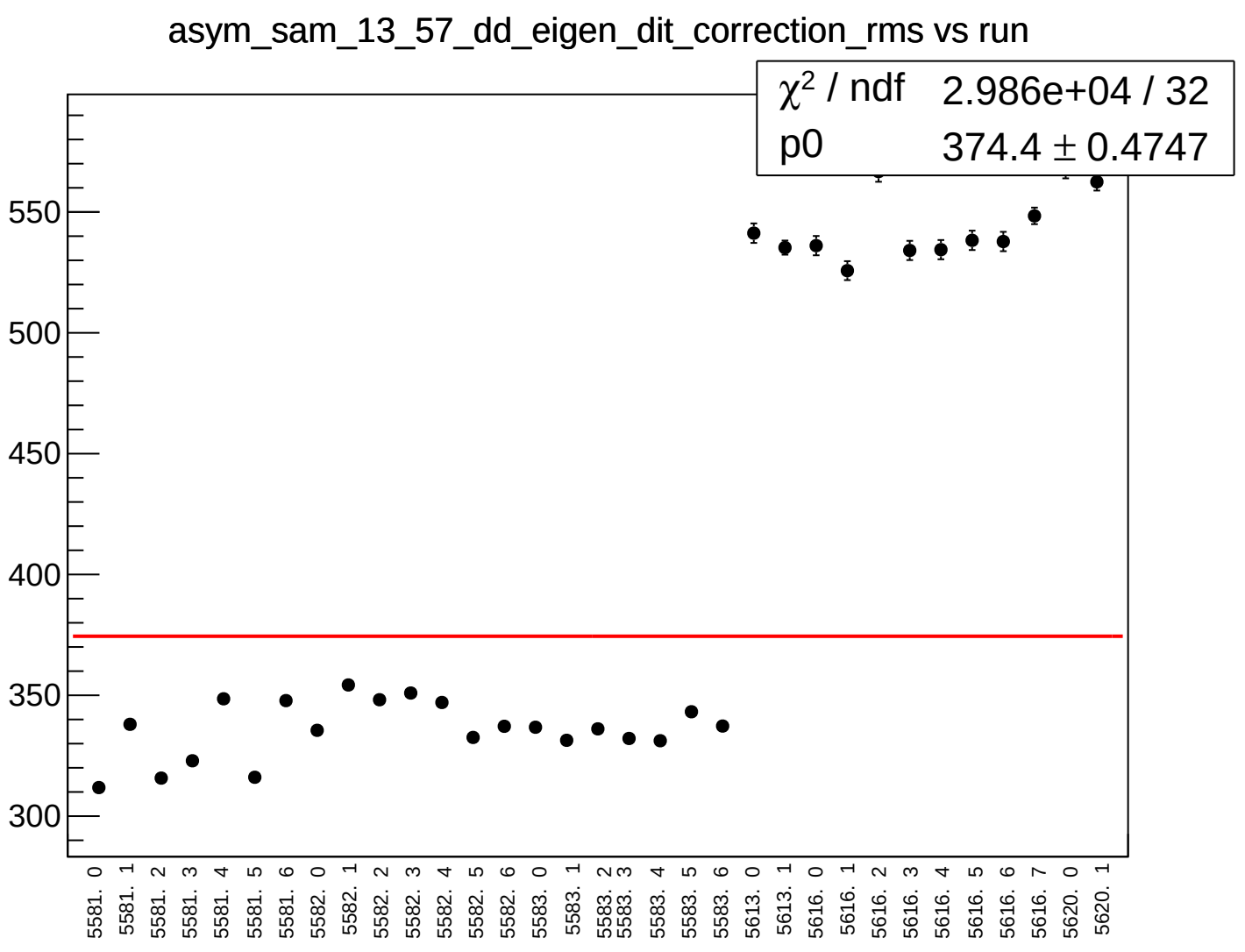

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 31.14 / 32
p0 −156.1± 149.8
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.71
Std Dev 0
2
1
0
−1
−2

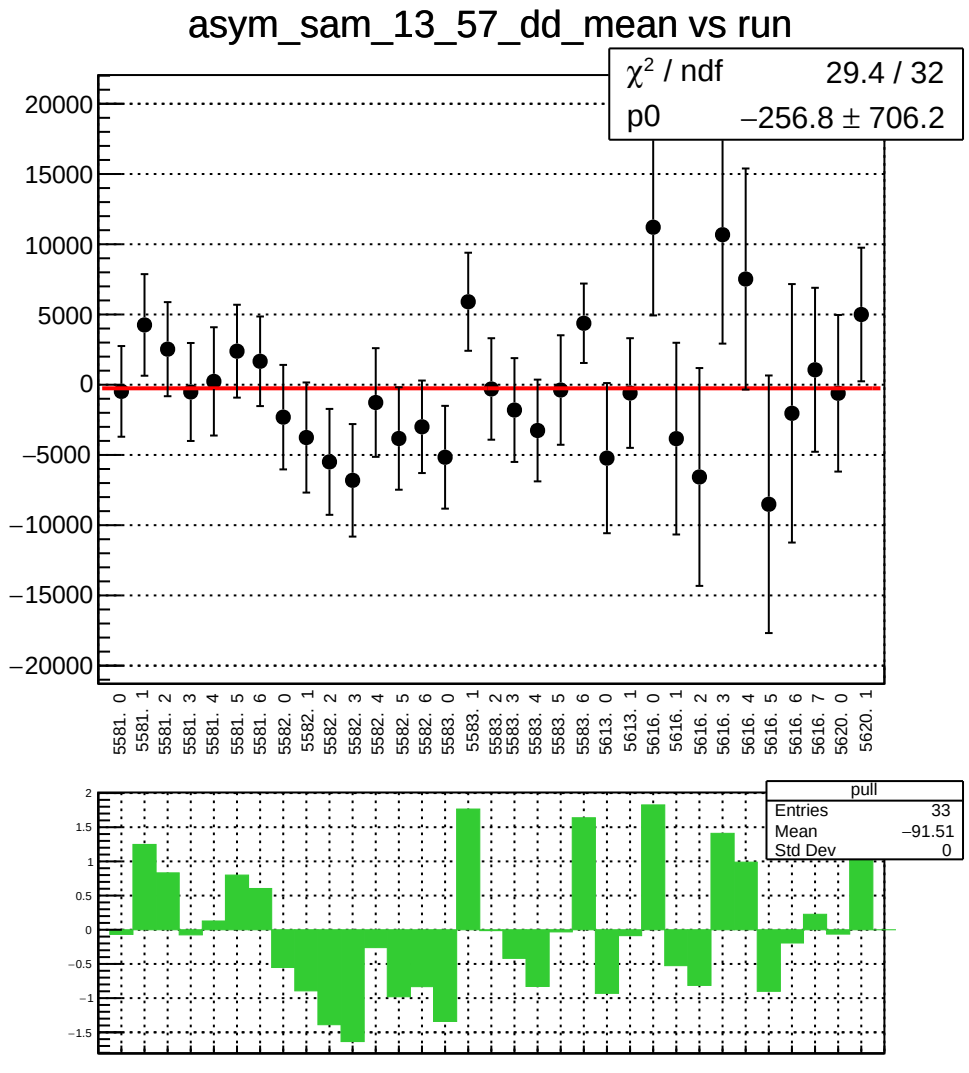

pull1D
Entries 33
Mean 0.05834
Std Dev 0.9696
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

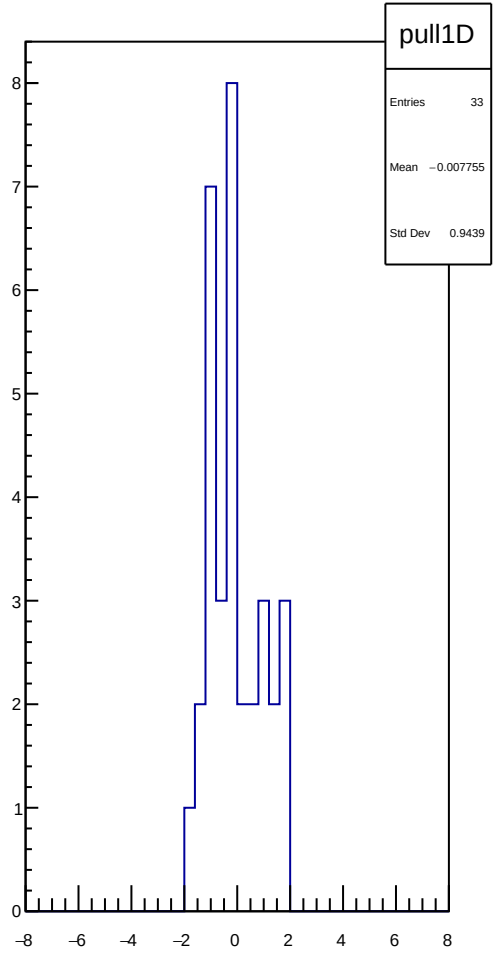

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.337e+05 / 32
p0 76.26 ± 0.1059
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

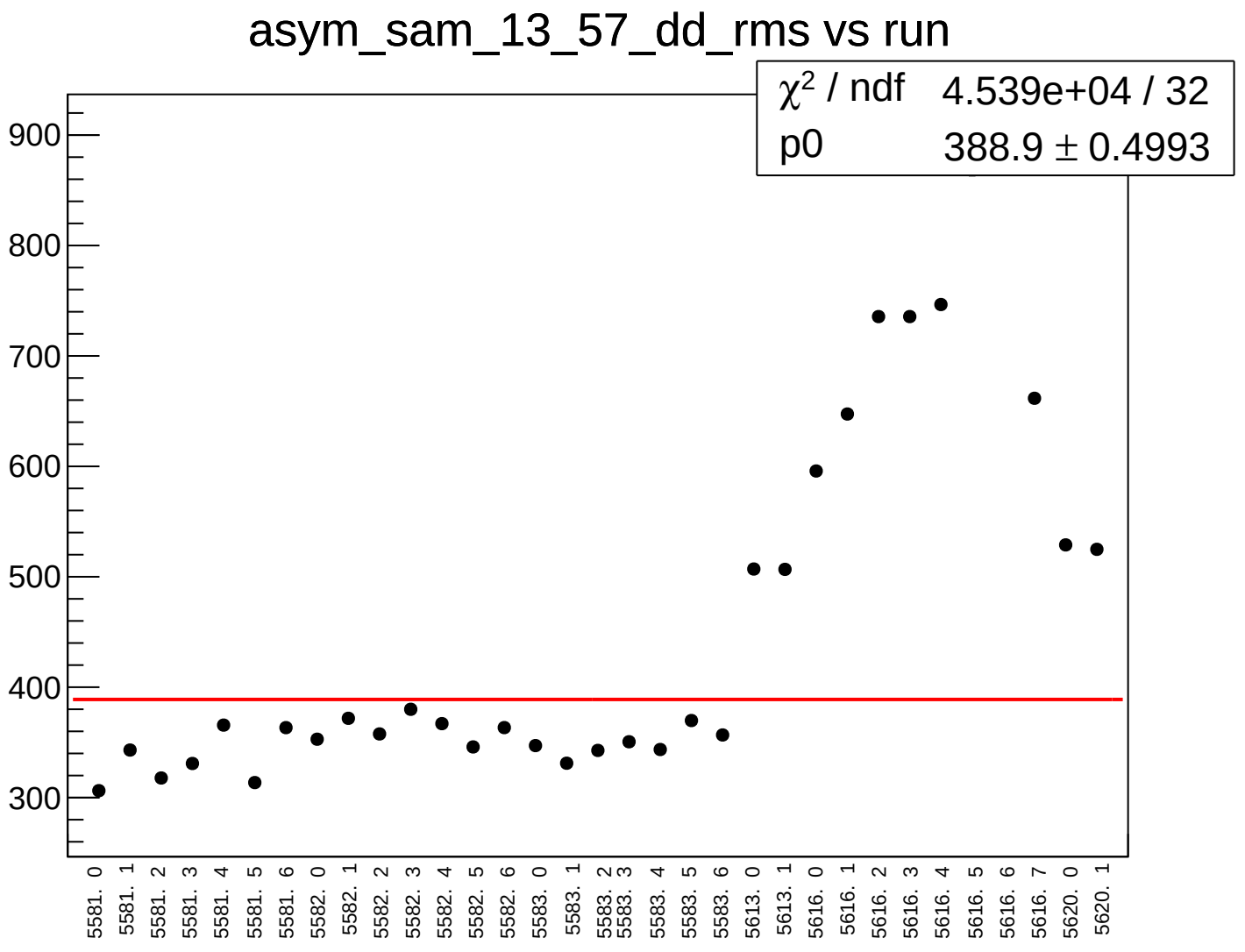

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 30.34 / 32
p0 84.06 ± 671.4
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −505.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

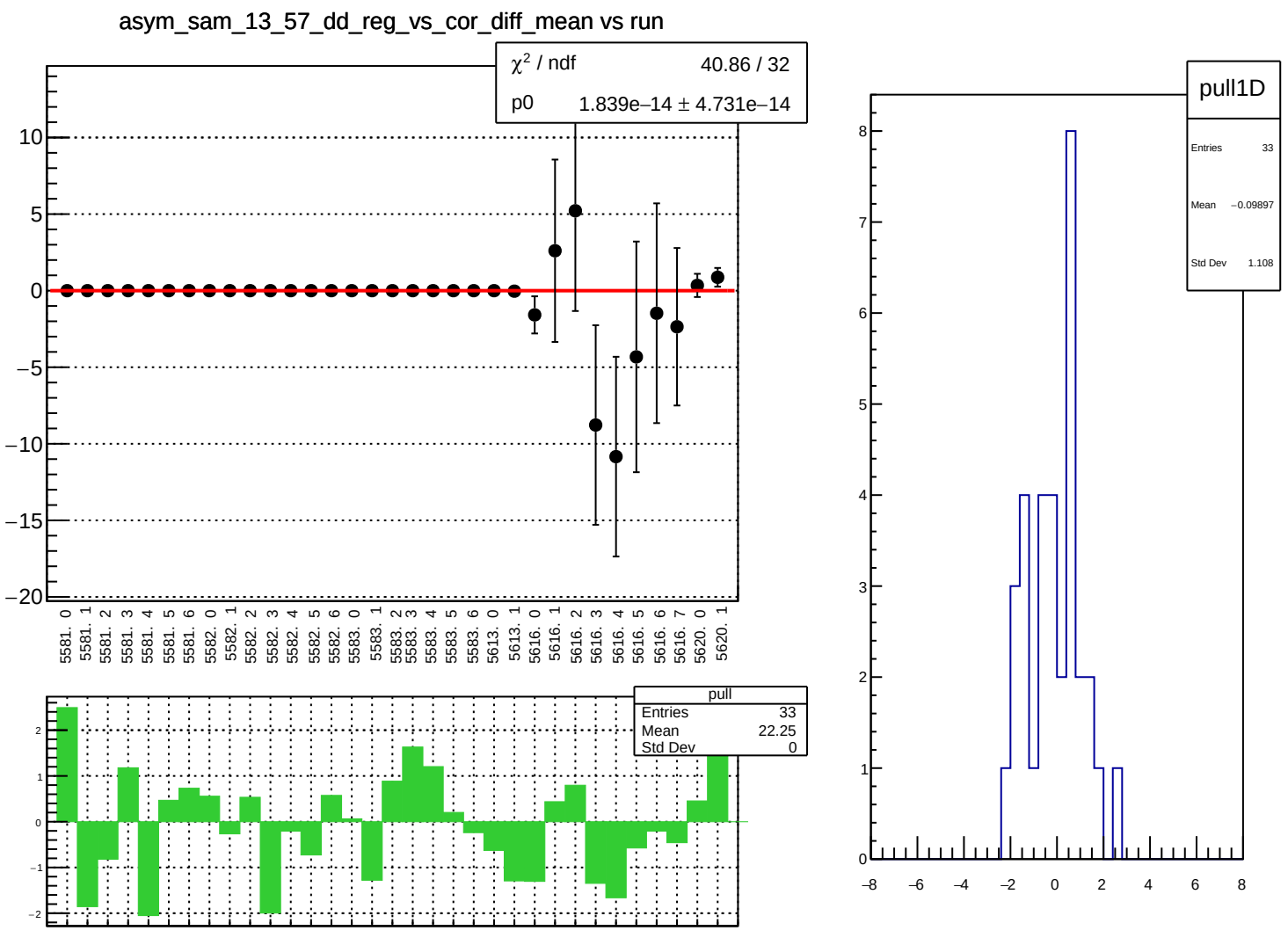

pull1D
Entries 33
Mean 0.002155
Std Dev 0.9588
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

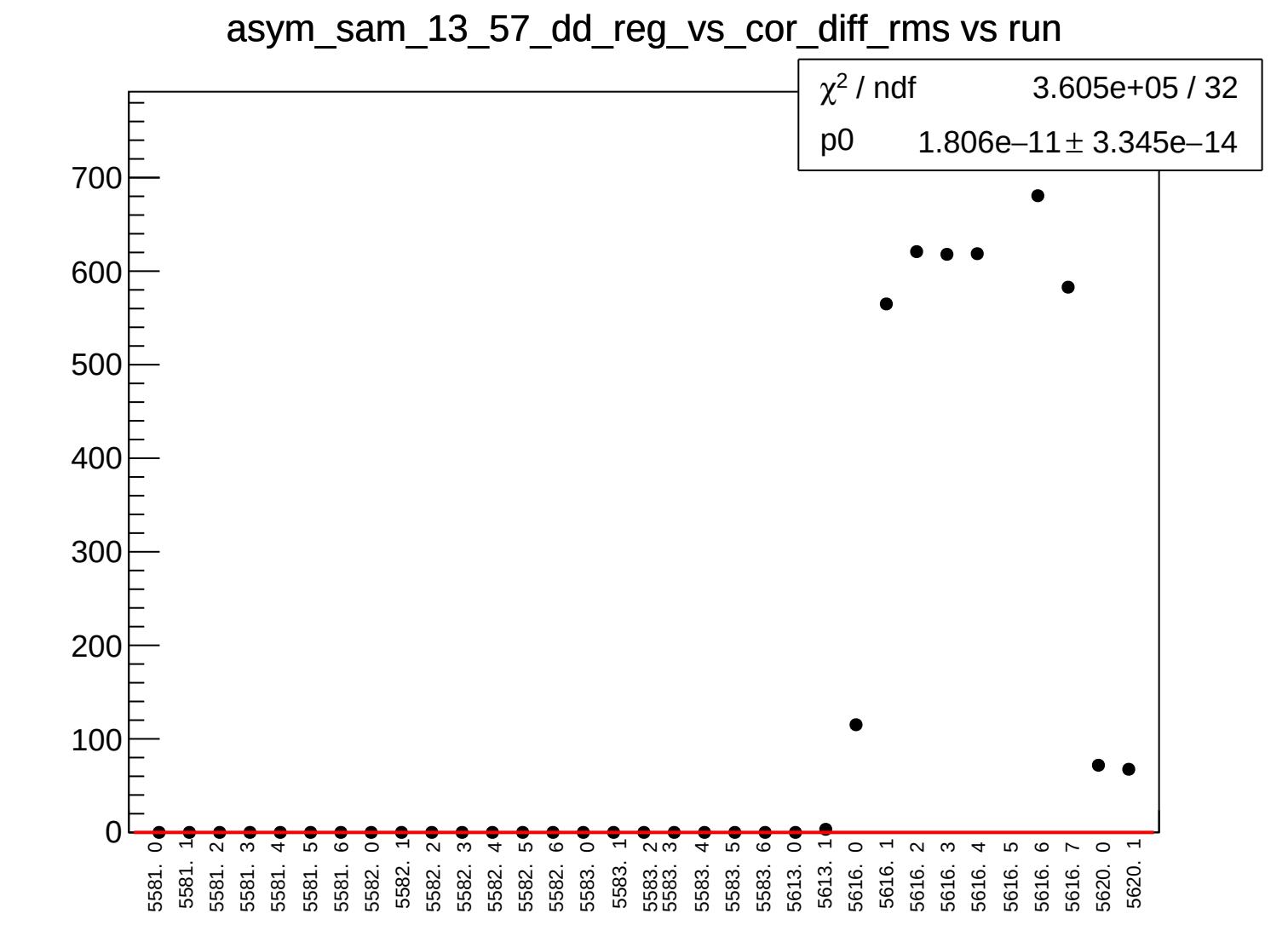

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.986e+04 / 32
p0 374.4 ± 0.4747
550
500
450
400
350
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

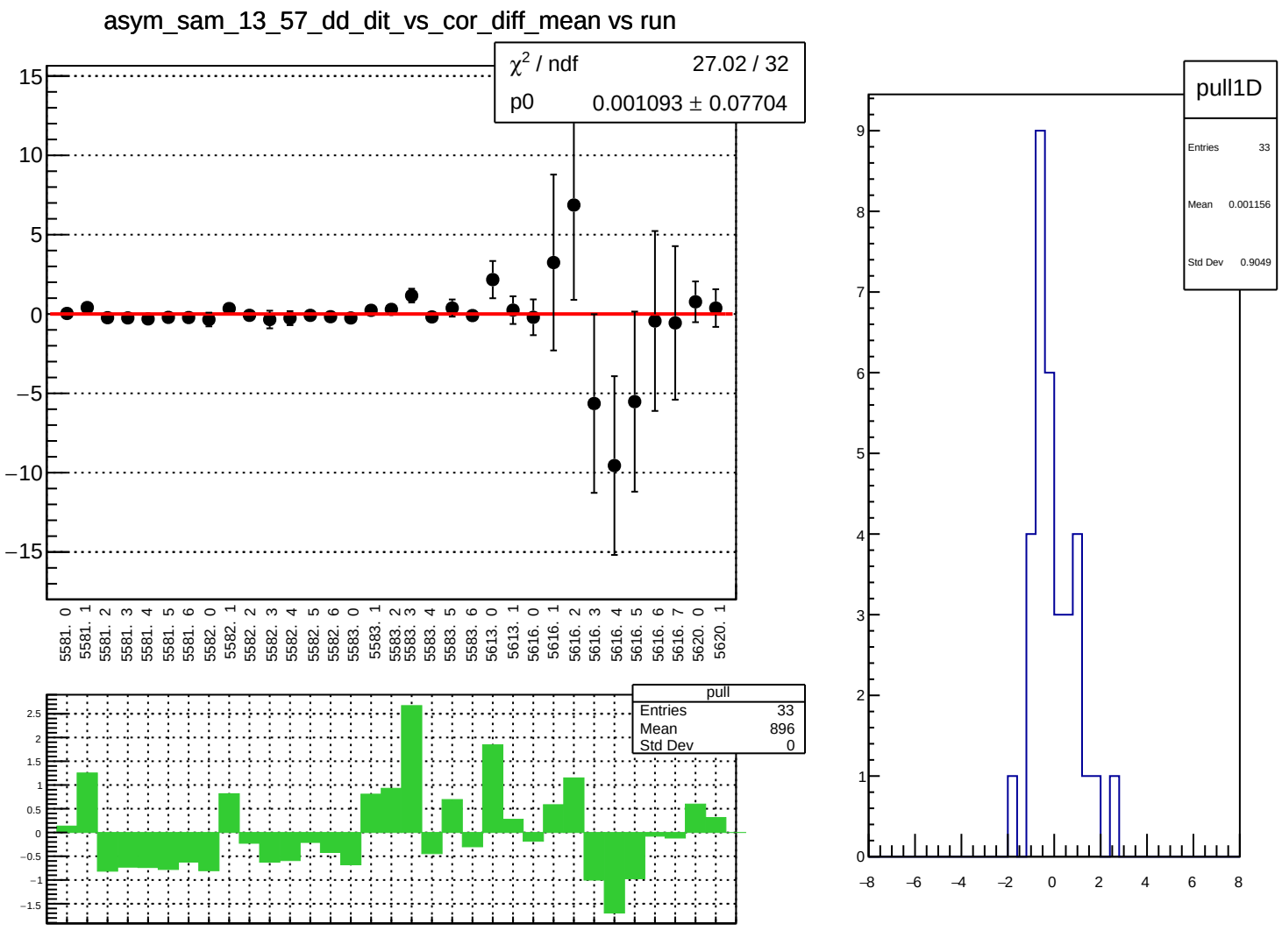

asym_sam_13_57_dd_mean vs run
χ² / ndf 29.4 / 32
p0 −256.8 ± 706.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −91.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

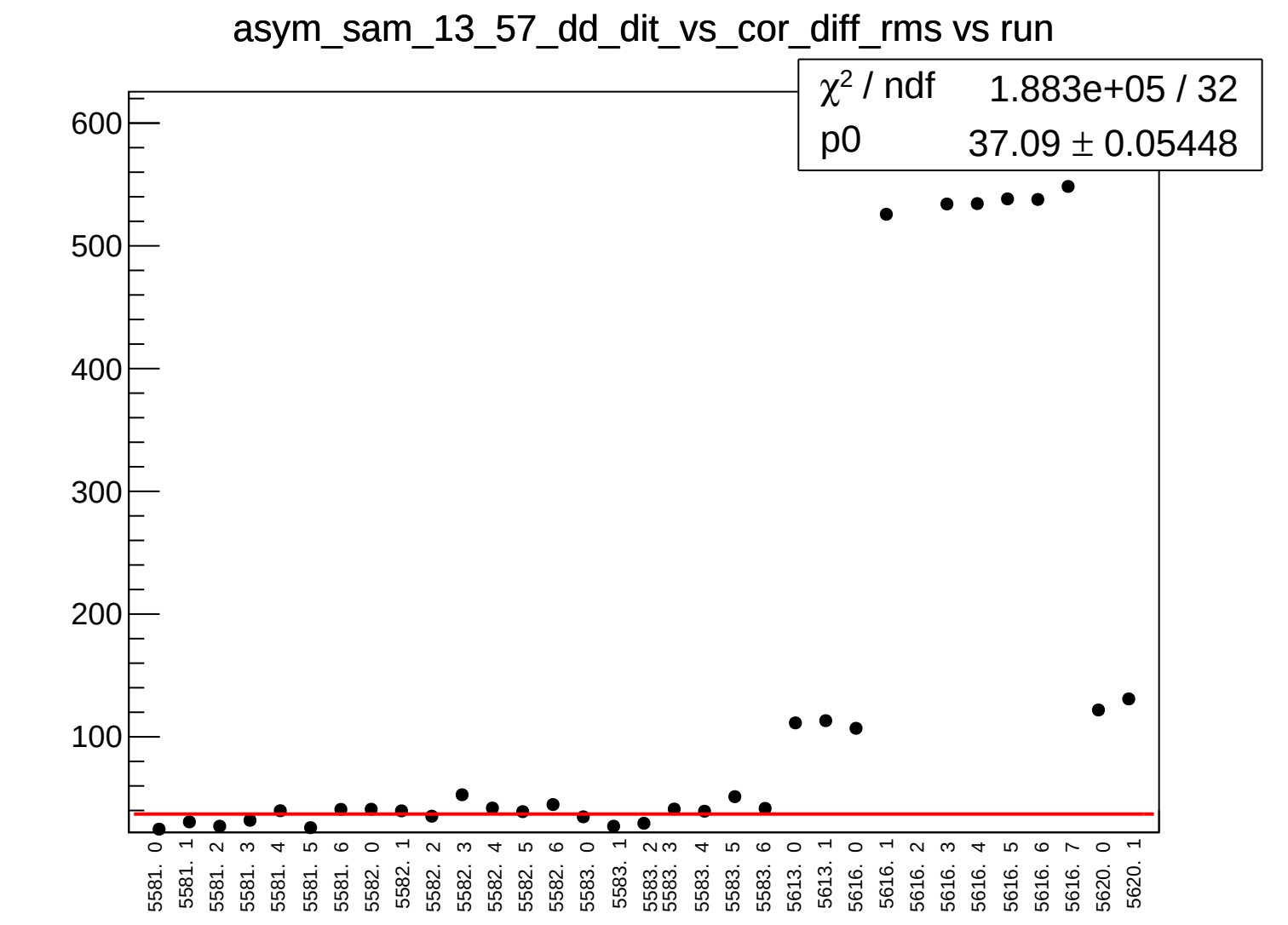

pull1D
Entries 33
Mean −0.007755
Std Dev 0.9439
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

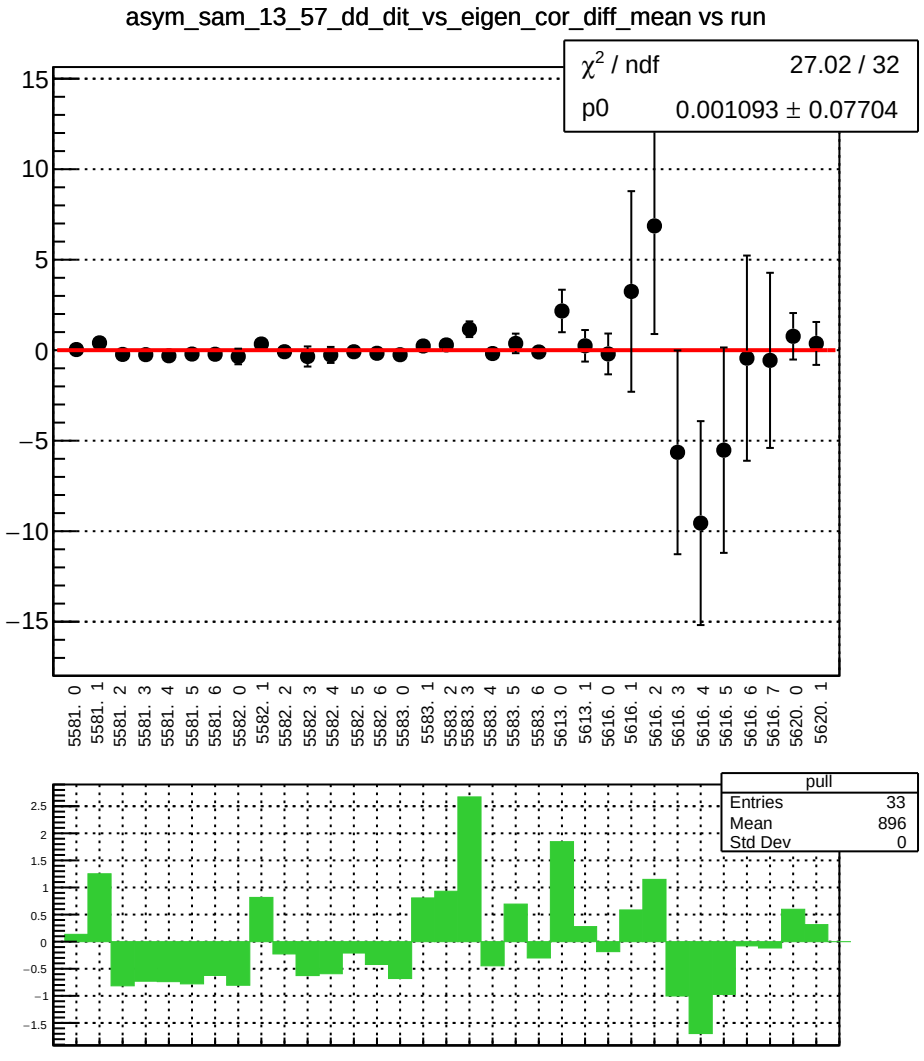

asym_sam_13_57_dd_rms vs run
χ² / ndf 4.539e+04 / 32
p0 388.9 ± 0.4993
900
800
700
600
500
400
300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

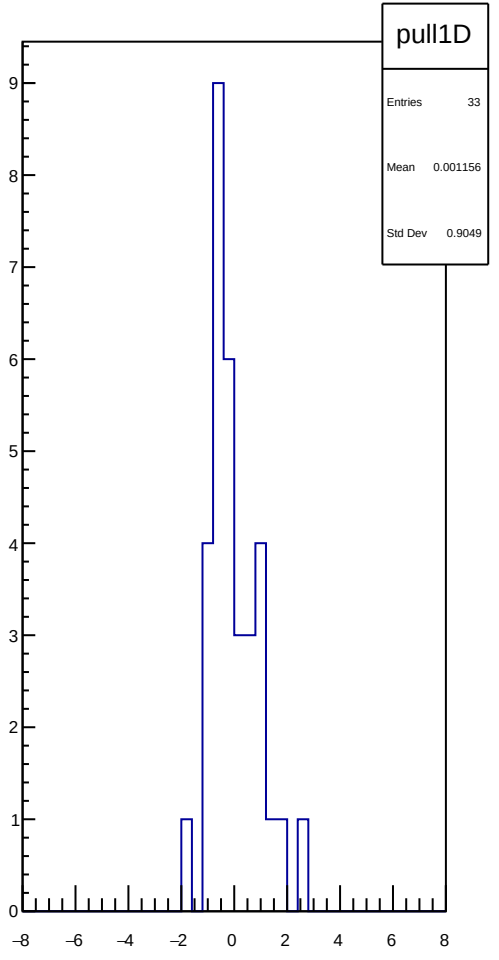

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 40.86 / 32
p0 1.839e−14 ± 4.731e−14
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.25
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.09897
Std Dev 1.108
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

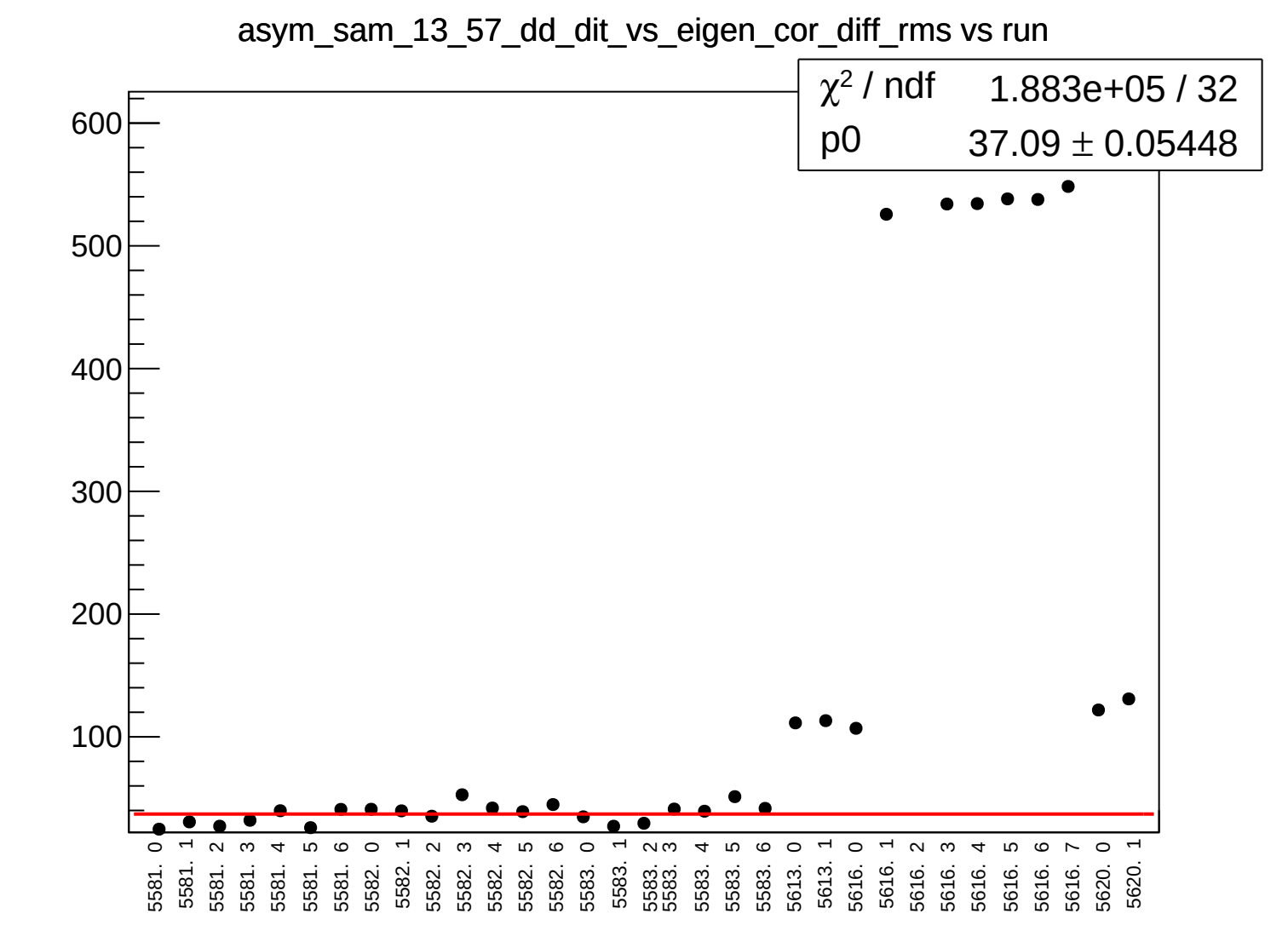

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.605e+05 / 32
p0 1.806e−11 ± 3.345e−14
700
600
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

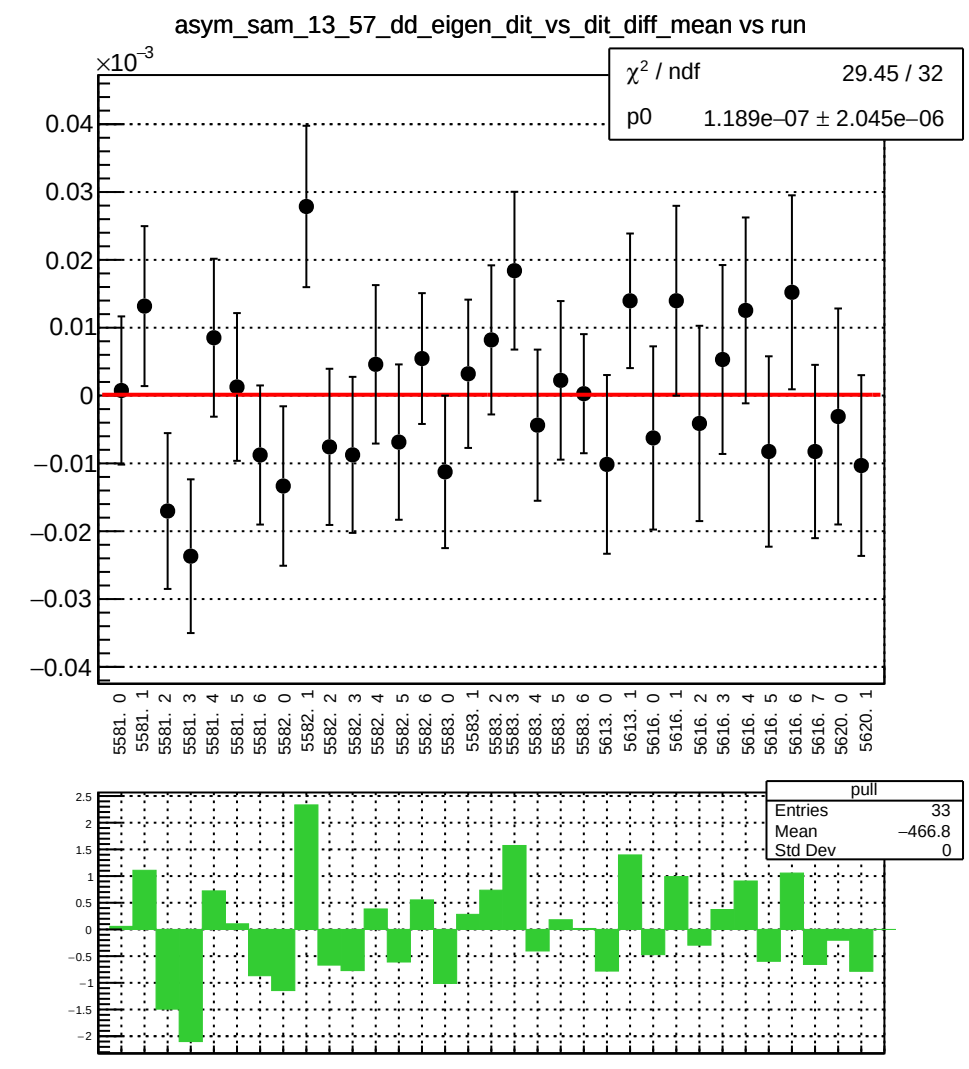

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 27.02 / 32
p0 0.001093 ± 0.07704
15
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 896
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.001156
Std Dev 0.9049
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

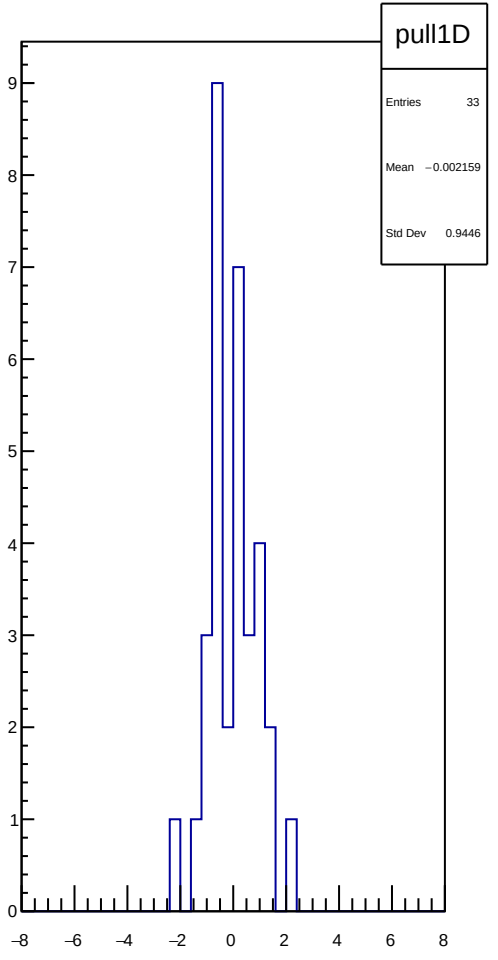

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.883e+05 / 32
p0 37.09 ± 0.05448
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

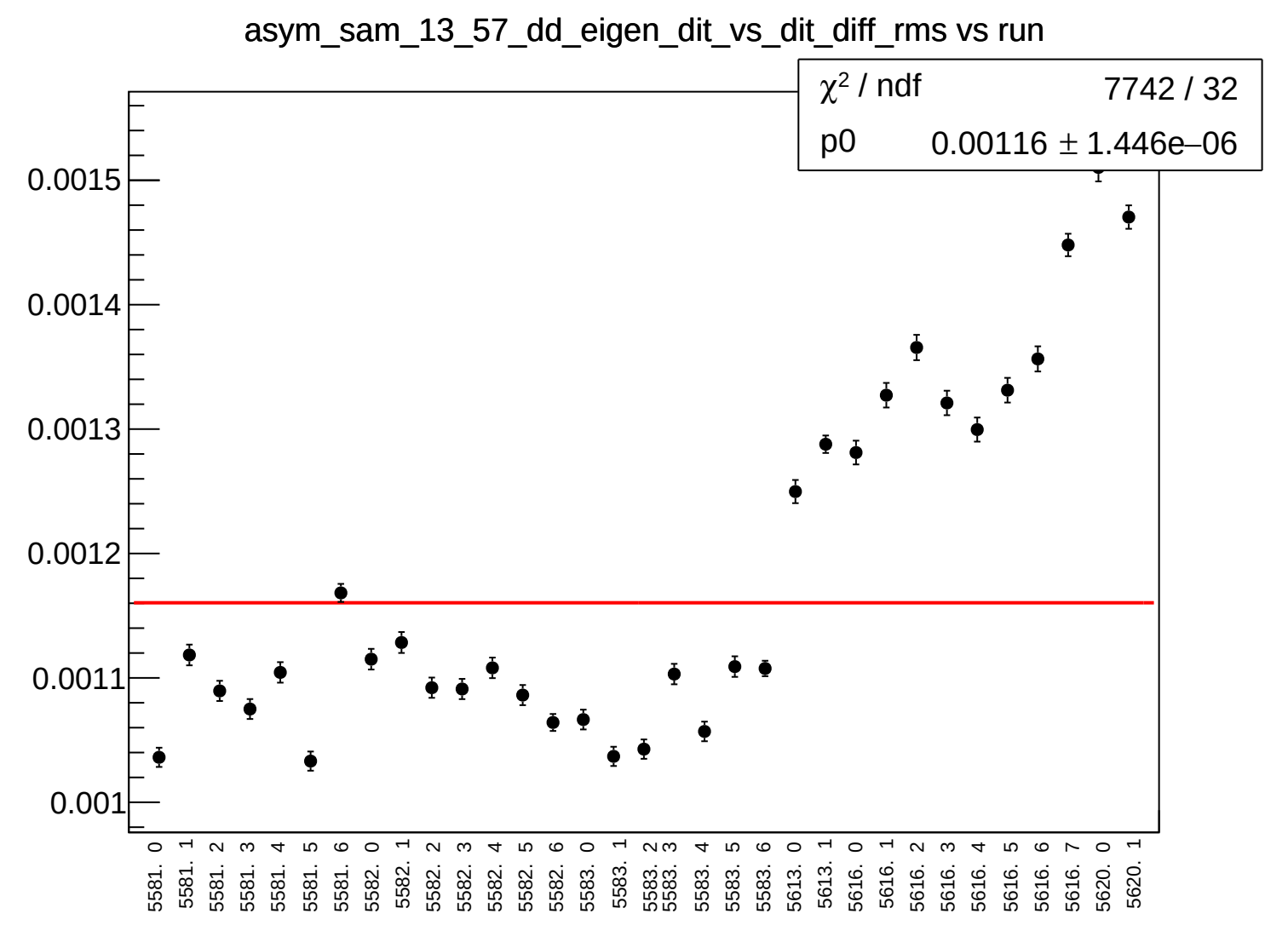

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.02 / 32
p0 0.001093 ± 0.07704
15
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 896
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

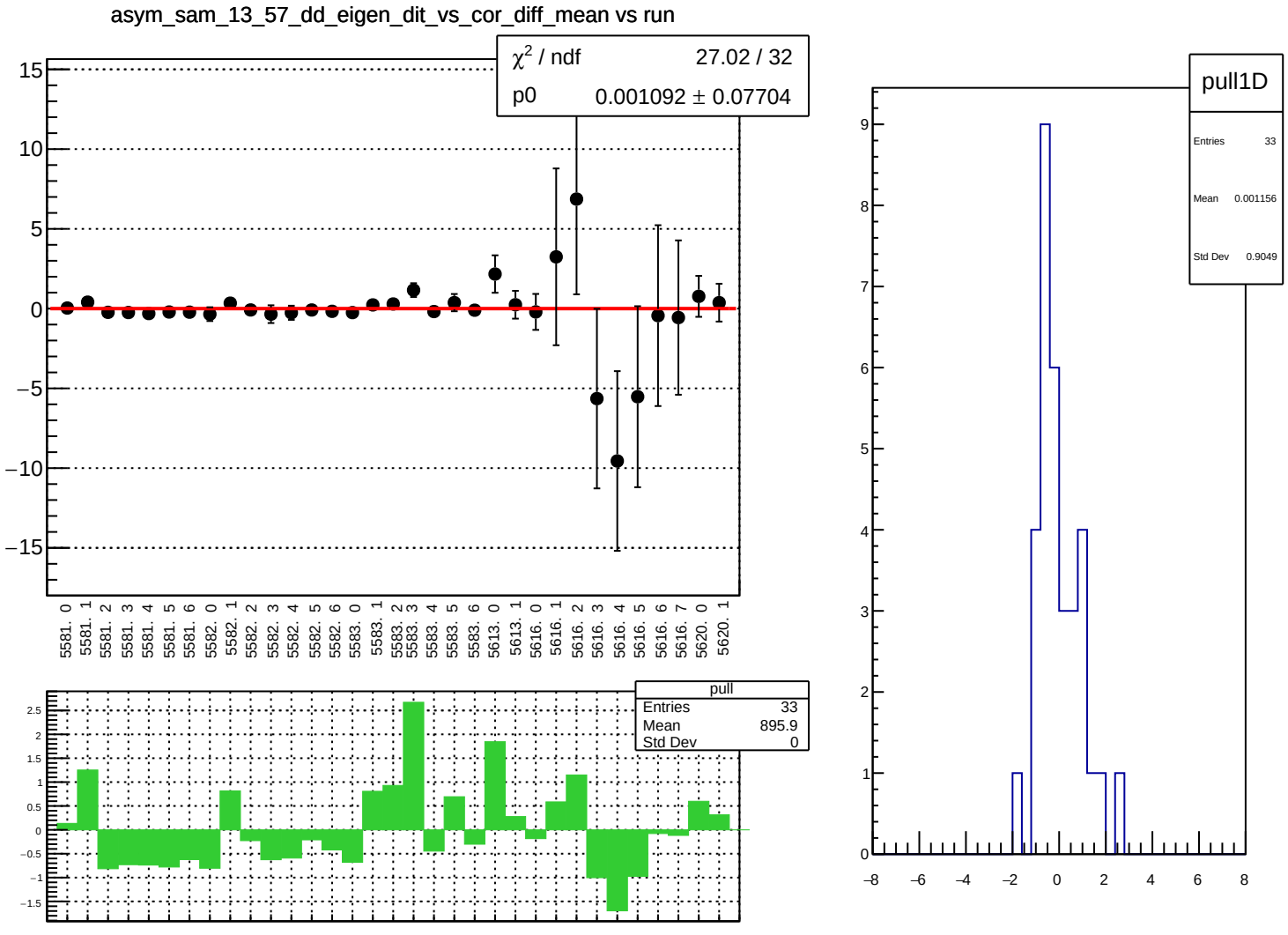

pull1D
Entries 33
Mean 0.001156
Std Dev 0.9049
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

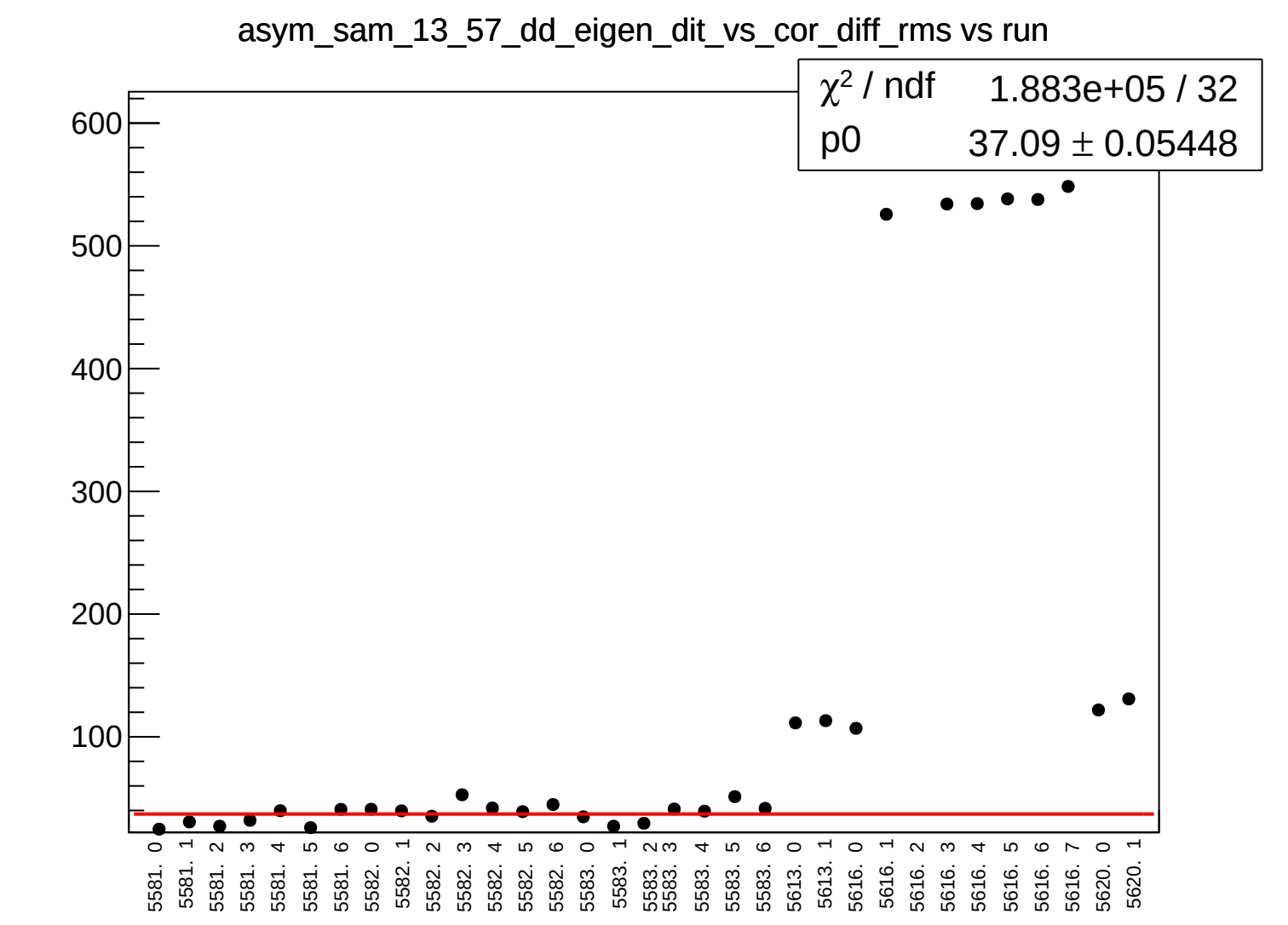

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.883e+05 / 32
p0 37.09 ± 0.05448
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

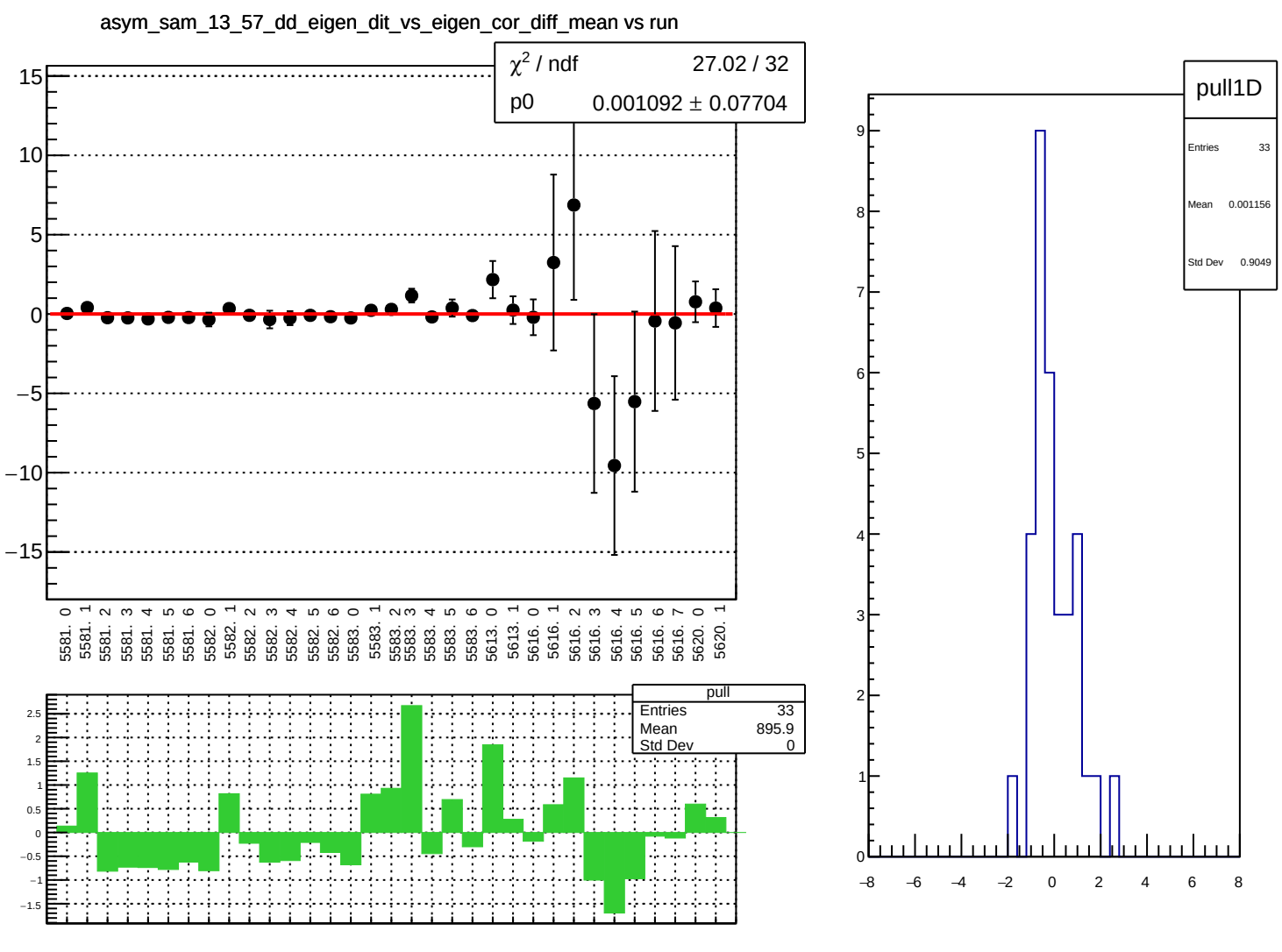

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 29.45 / 32
p0 1.189e−07 ± 2.045e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −466.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

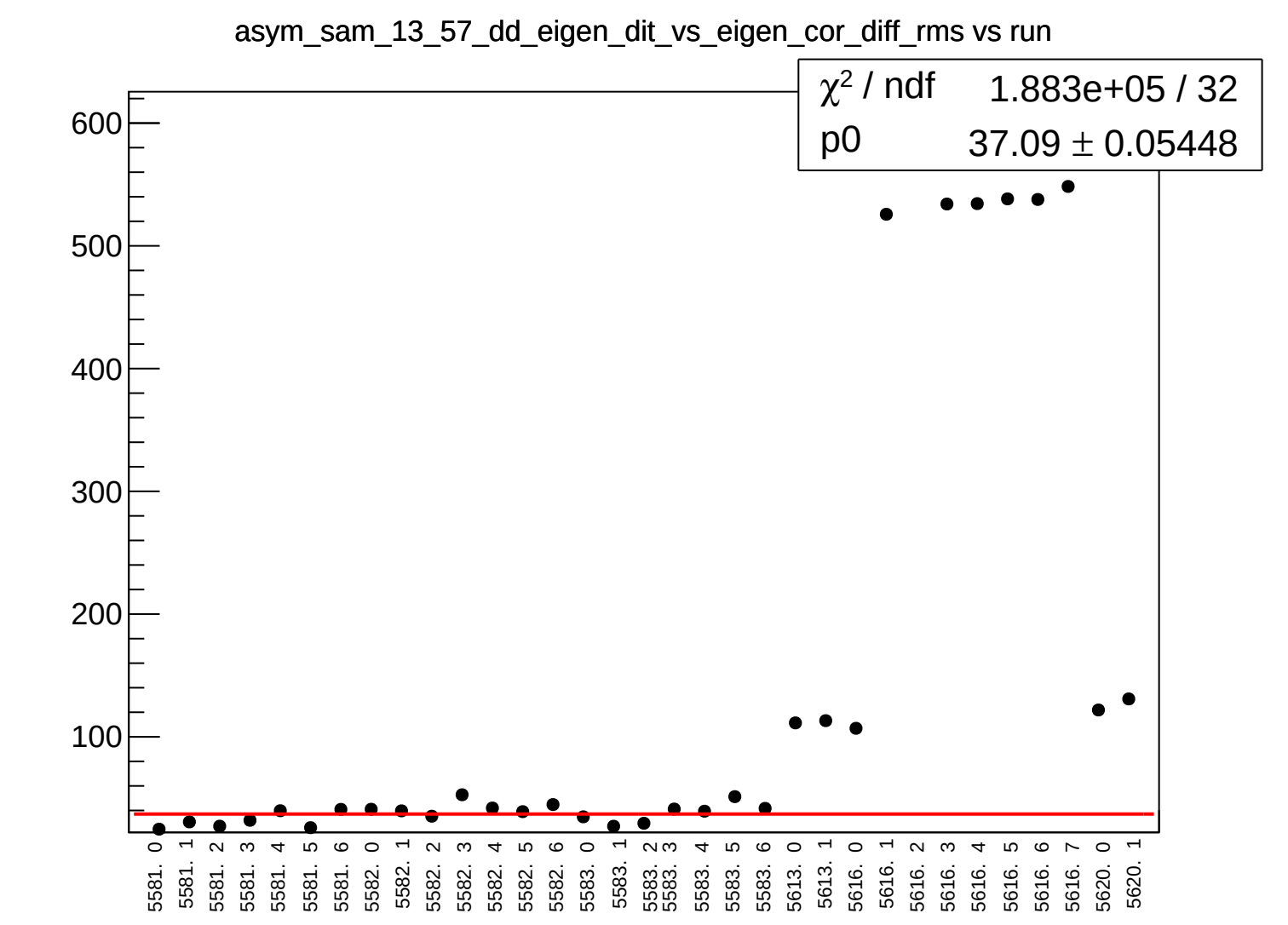

pull1D
Entries 33
Mean −0.002159
Std Dev 0.9446
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

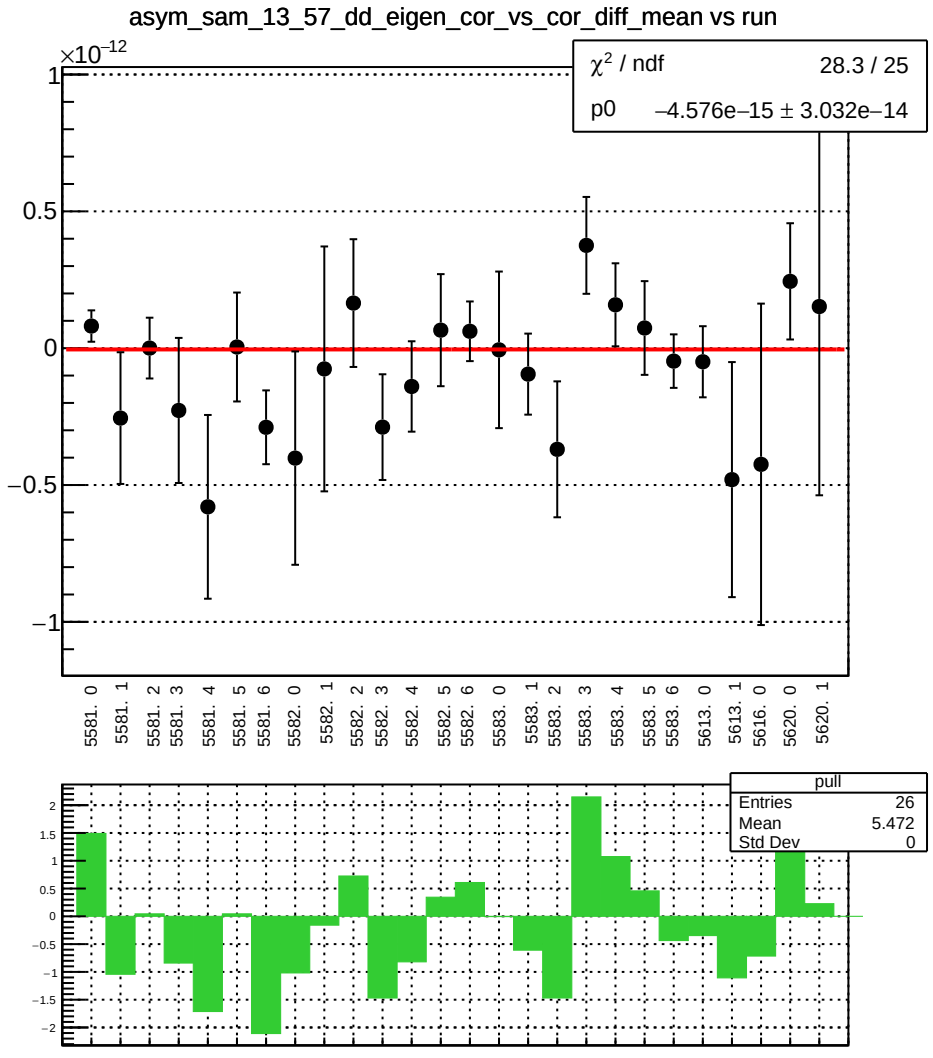

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7742 / 32
p0 0.00116 ± 1.446e−06
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

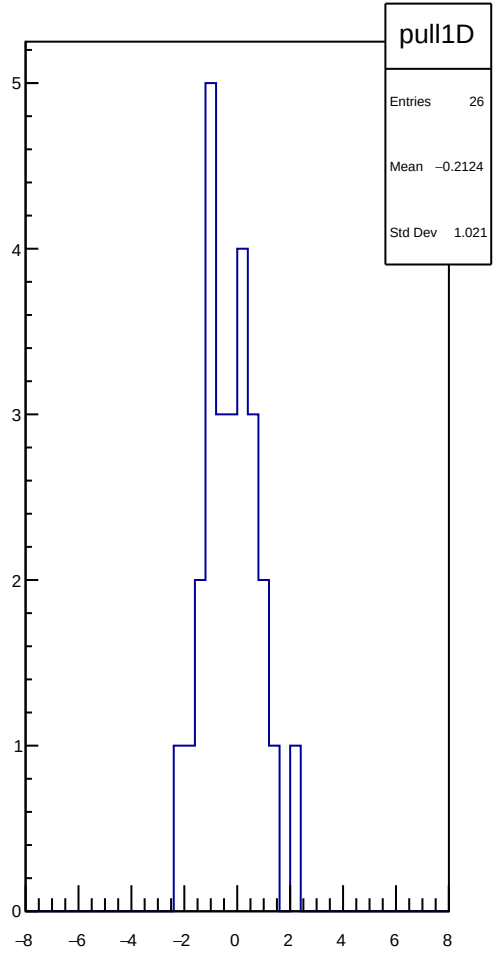

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.02 / 32
p0 0.001092 ± 0.07704
15
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 895.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.001156
Std Dev 0.9049
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

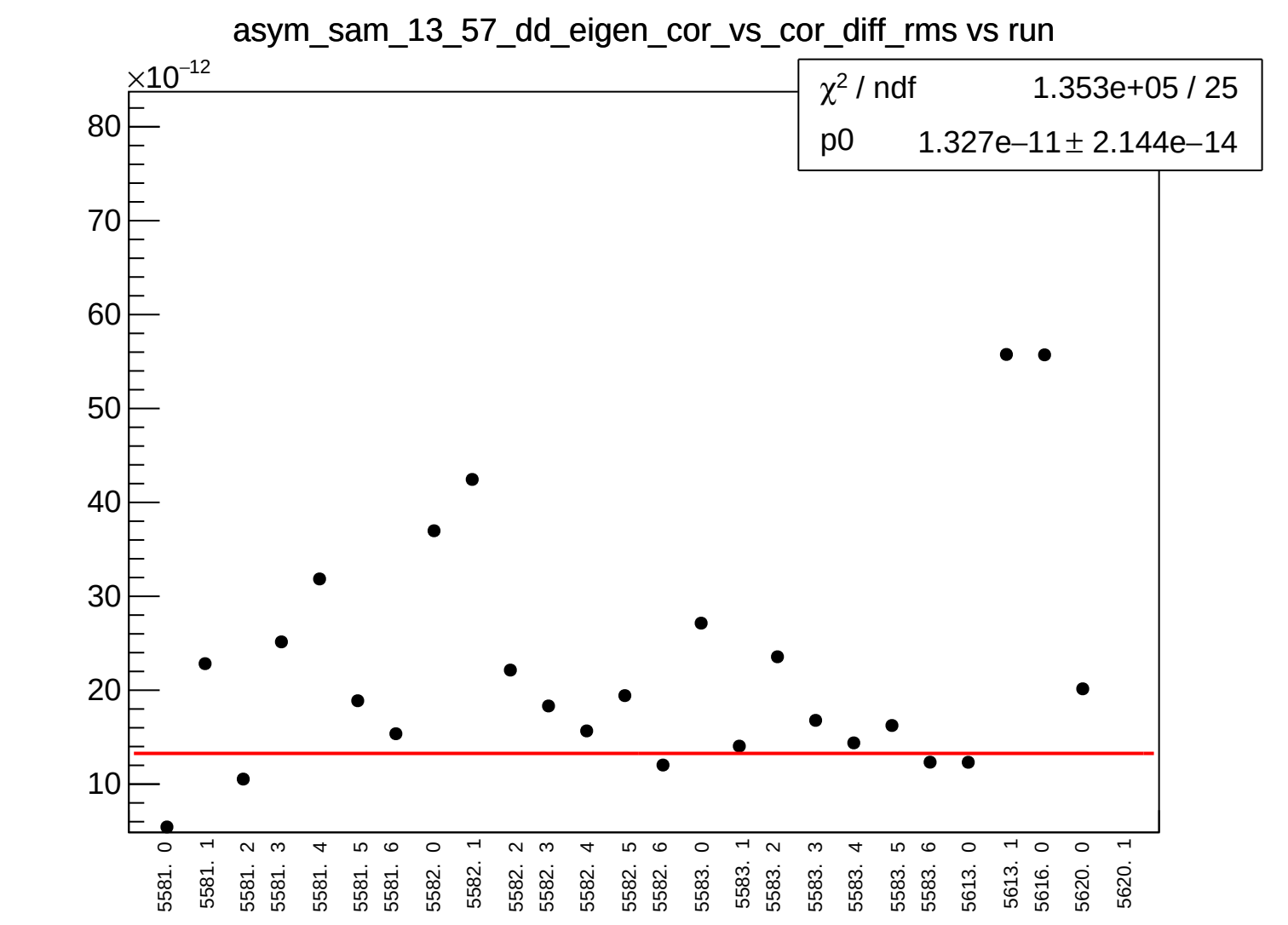

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.883e+05 / 32
p0 37.09 ± 0.05448
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

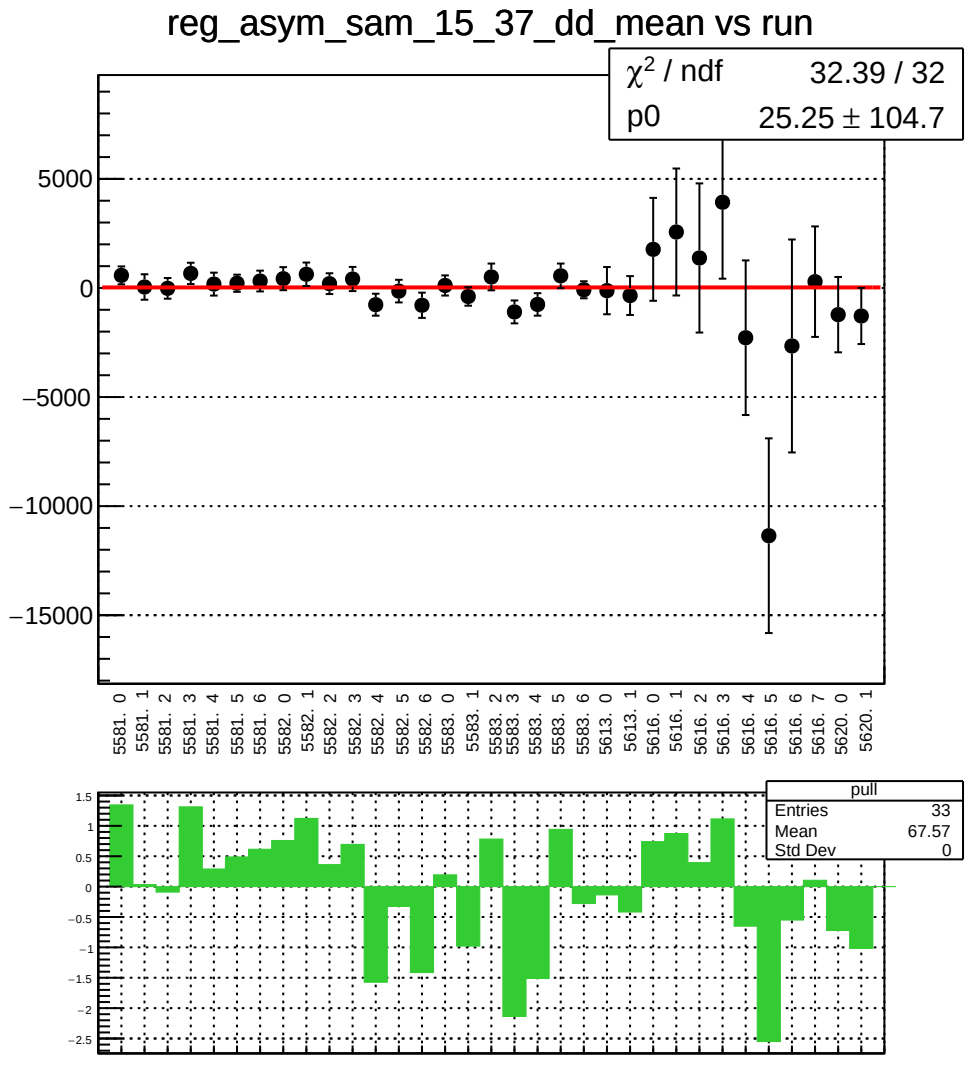

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.02 / 32
p0 0.001092 ± 0.07704
15
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 895.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.001156
Std Dev 0.9049
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

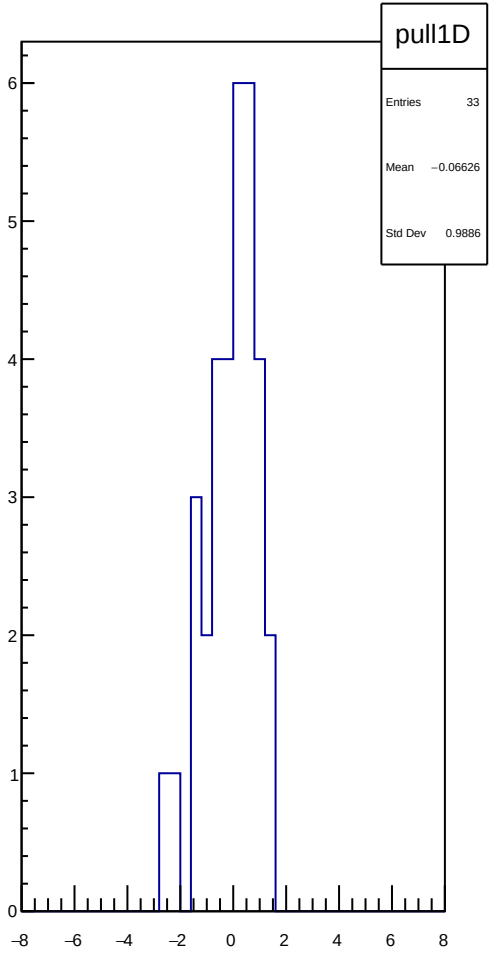

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.883e+05 / 32
p0 37.09 ± 0.05448
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

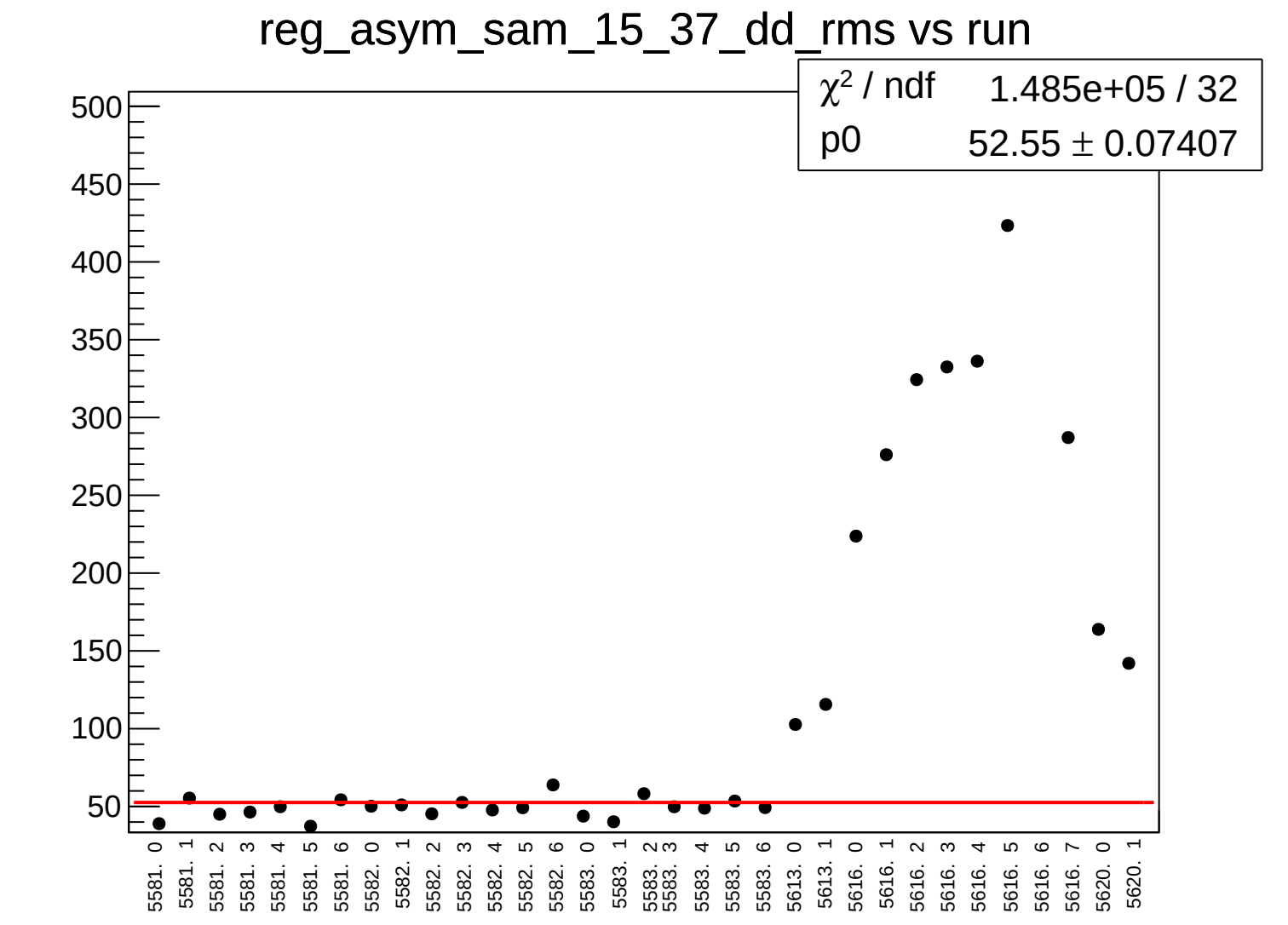

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 28.3 / 25
p0 −4.576e−15 ± 3.032e−14
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 5.472
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

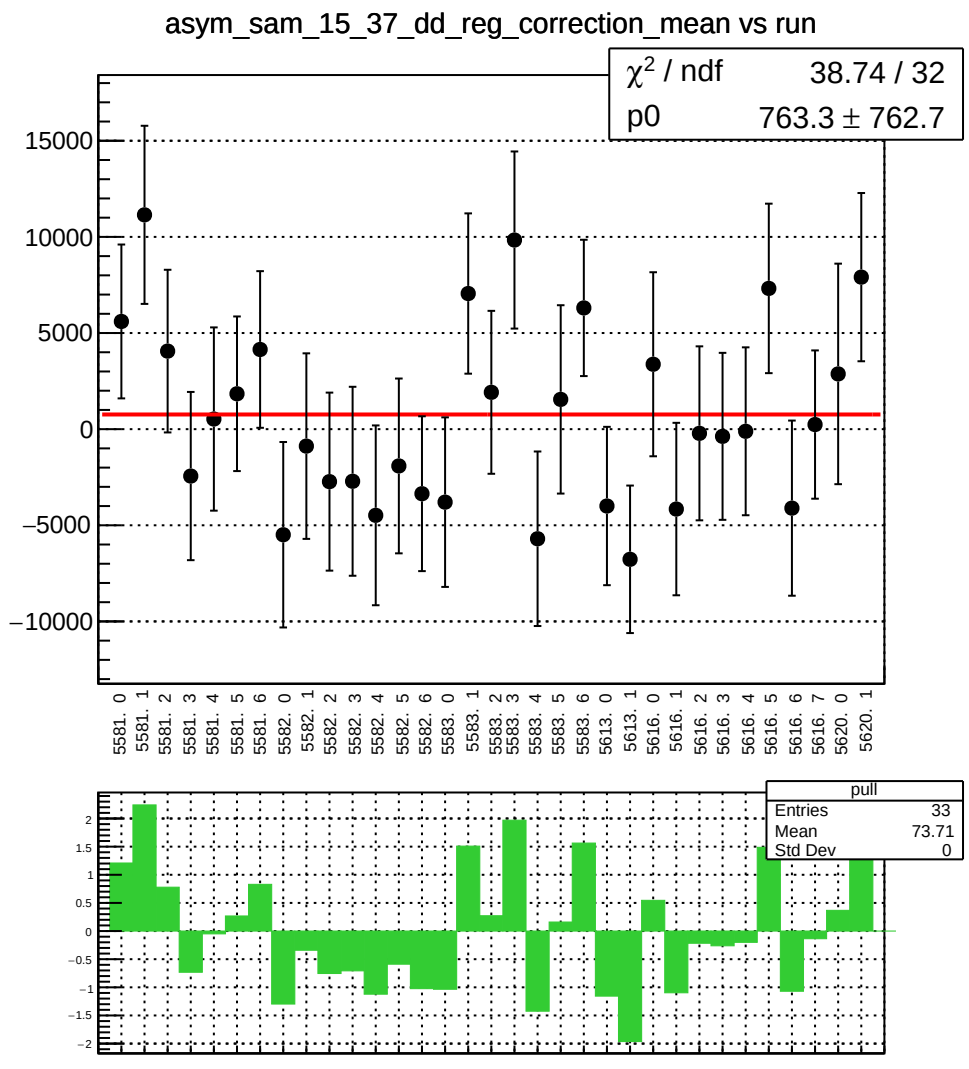

pull1D
Entries 26
Mean −0.2124
Std Dev 1.021
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

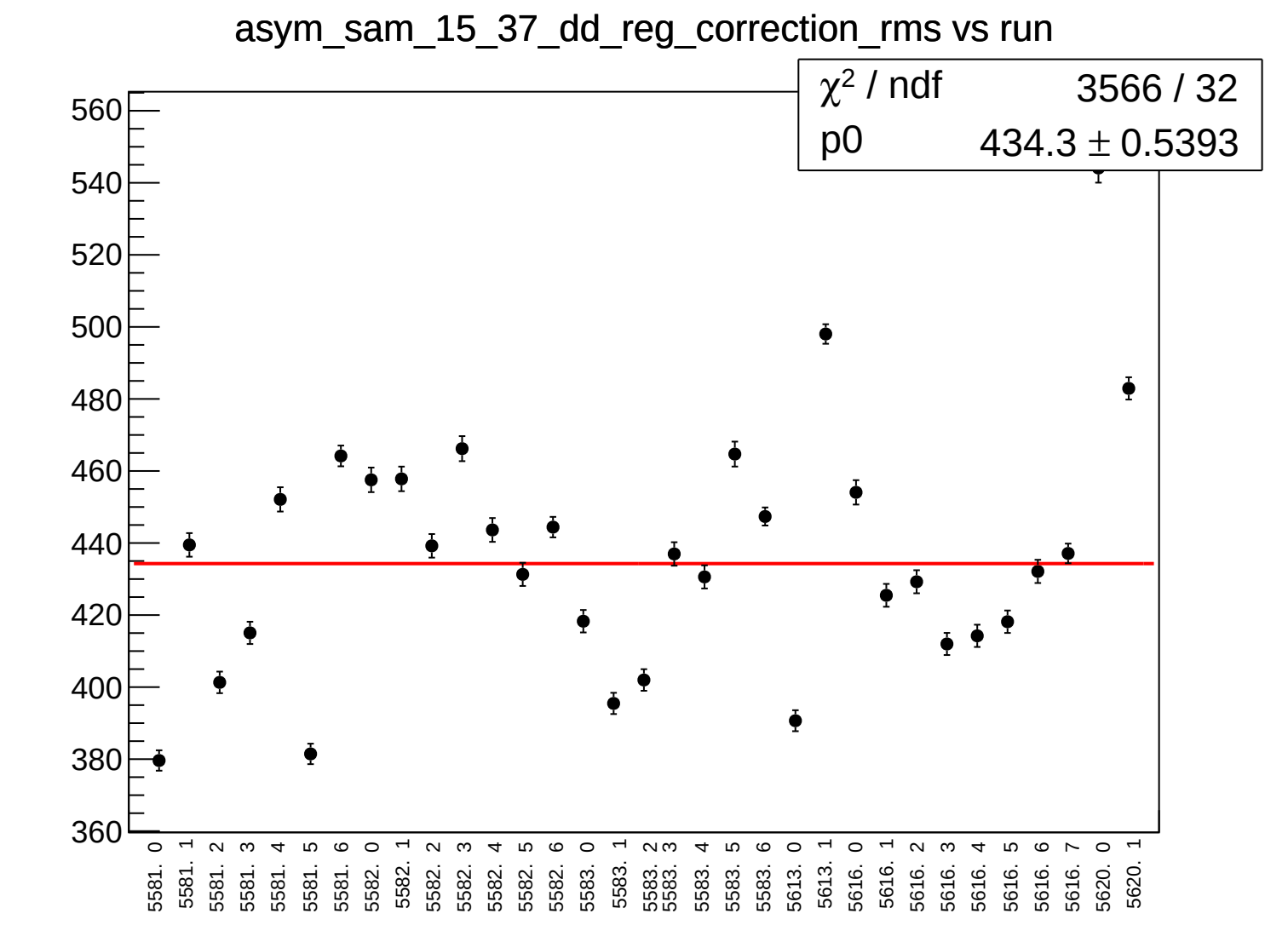

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 1.353e+05 / 25
p0 1.327e−11 ± 2.144e−14
80
70
60
50
40
30
20
10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

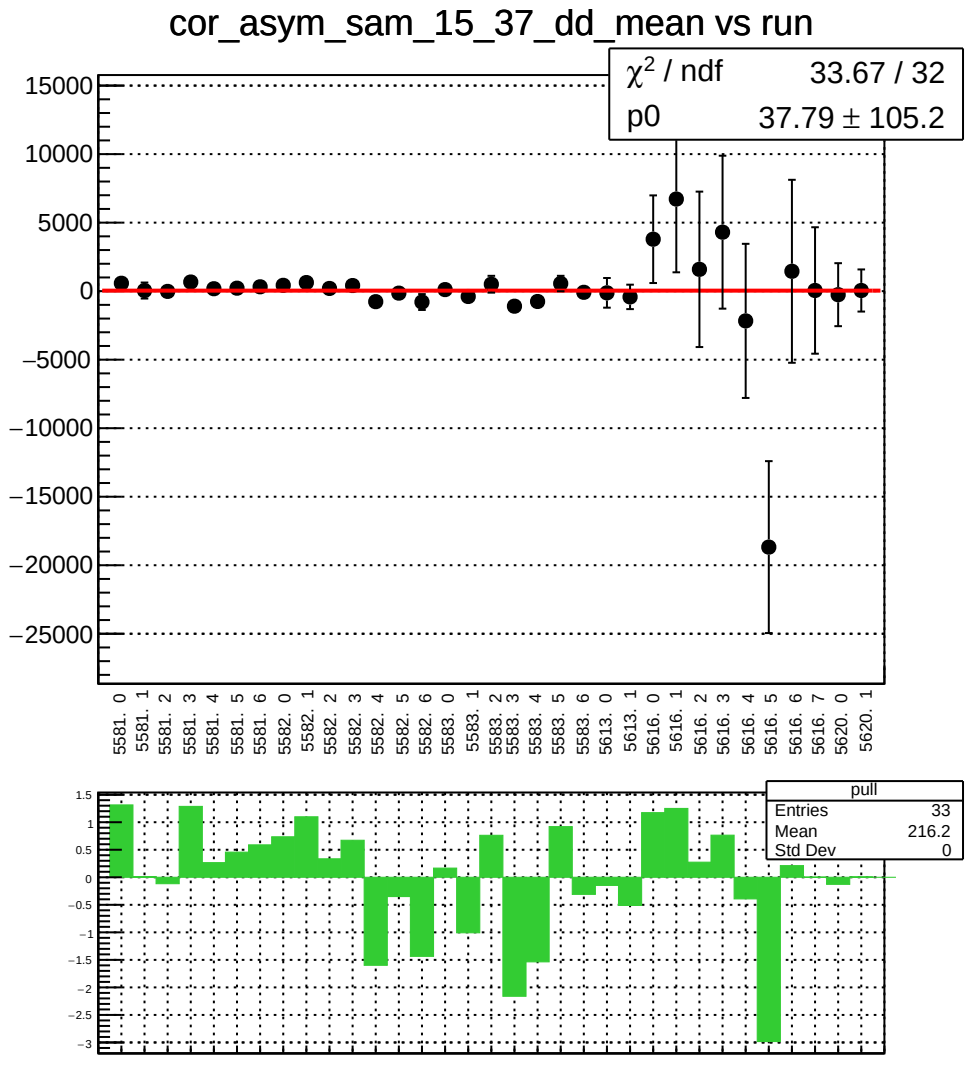

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 32.39 / 32
p0 25.25 ± 104.7
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 67.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

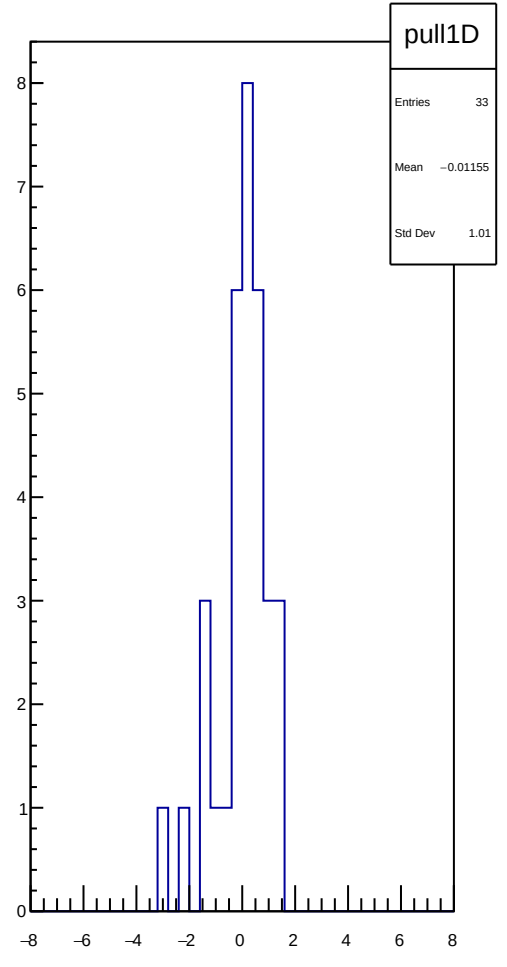

pull1D
Entries 33
Mean −0.06626
Std Dev 0.9886
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

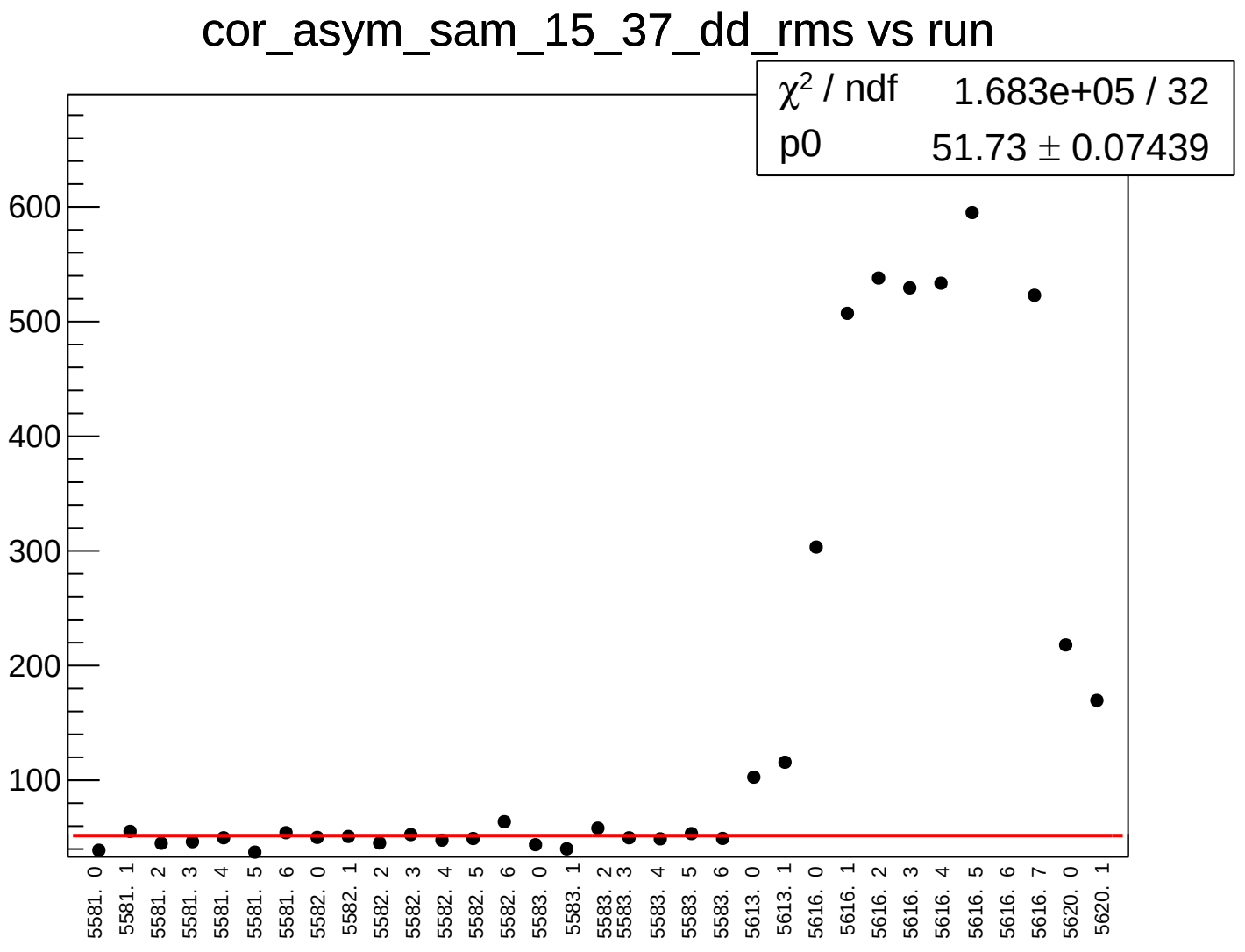

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.485e+05 / 32
p0 52.55 ± 0.07407
500
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

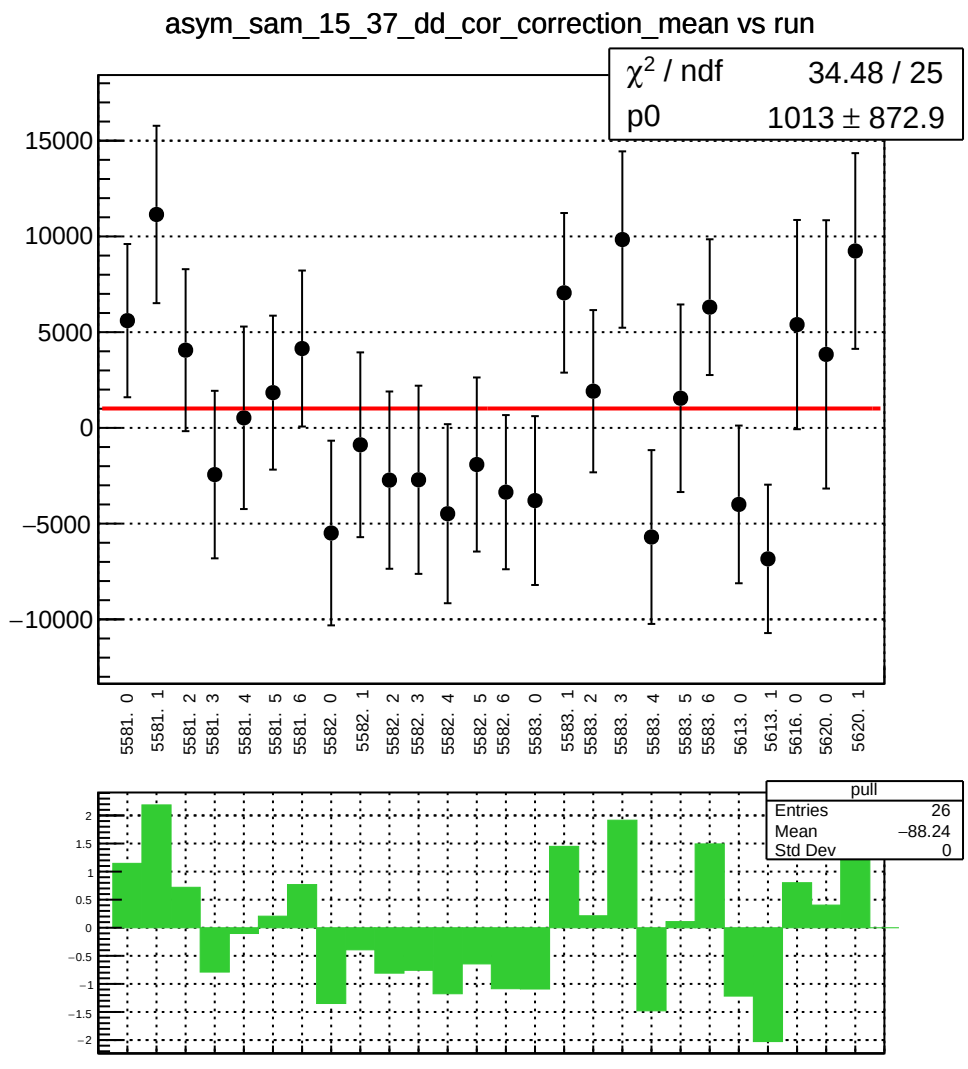

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 38.74 / 32
p0 763.3 ± 762.7
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 73.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01019
Std Dev 1.083
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

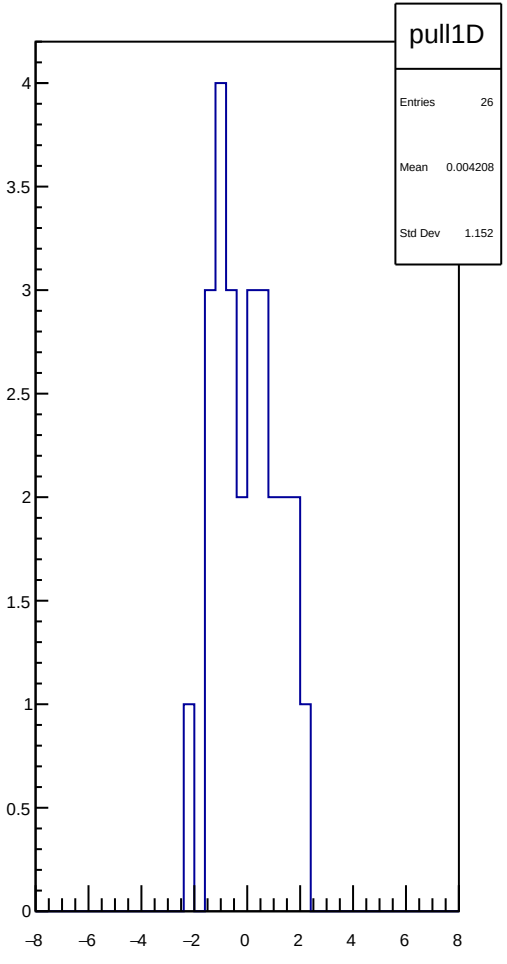

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 3566 / 32
p0 434.3 ± 0.5393
560
540
520
500
480
460
440
420
400
380
360
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

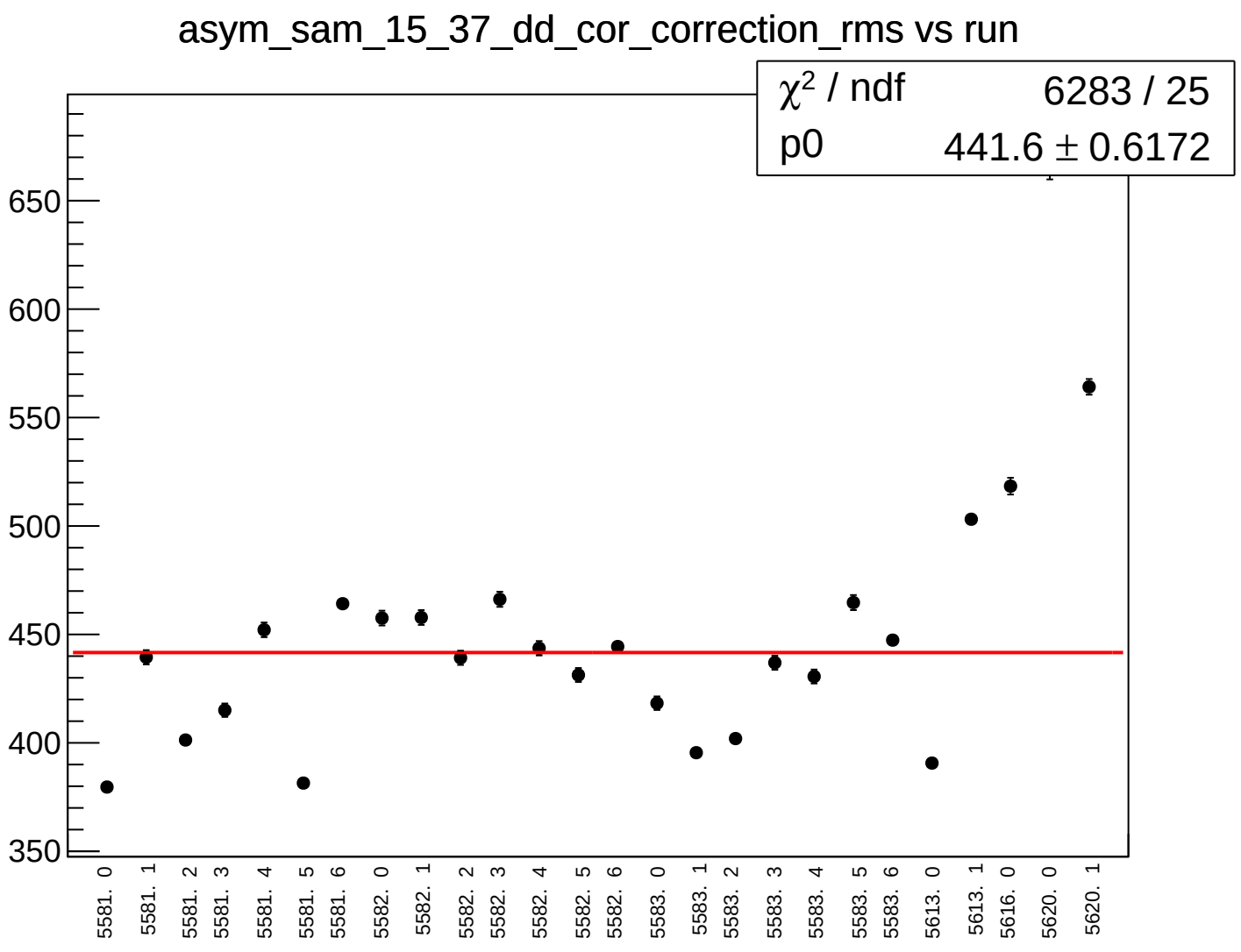

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 33.67 / 32
p0 37.79 ± 105.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 216.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

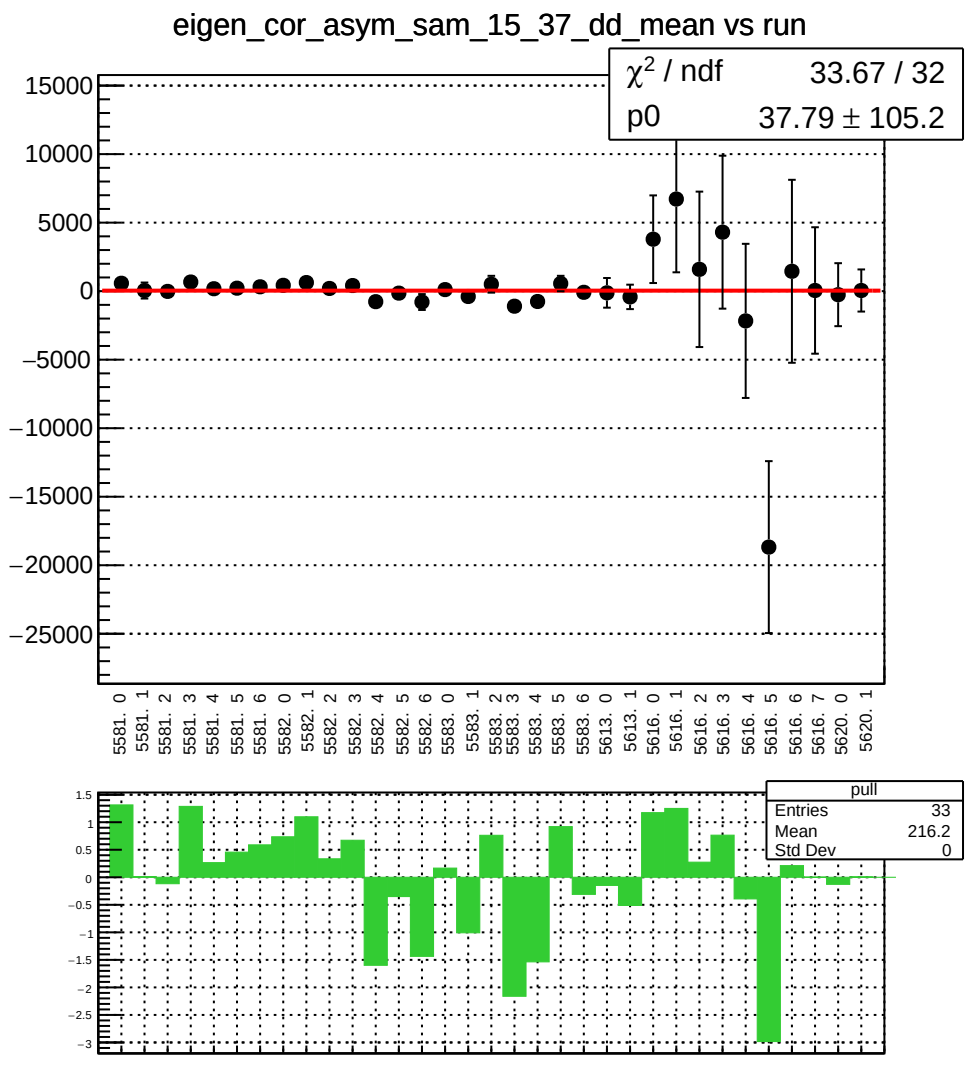

pull1D
Entries 33
Mean −0.01155
Std Dev 1.01
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

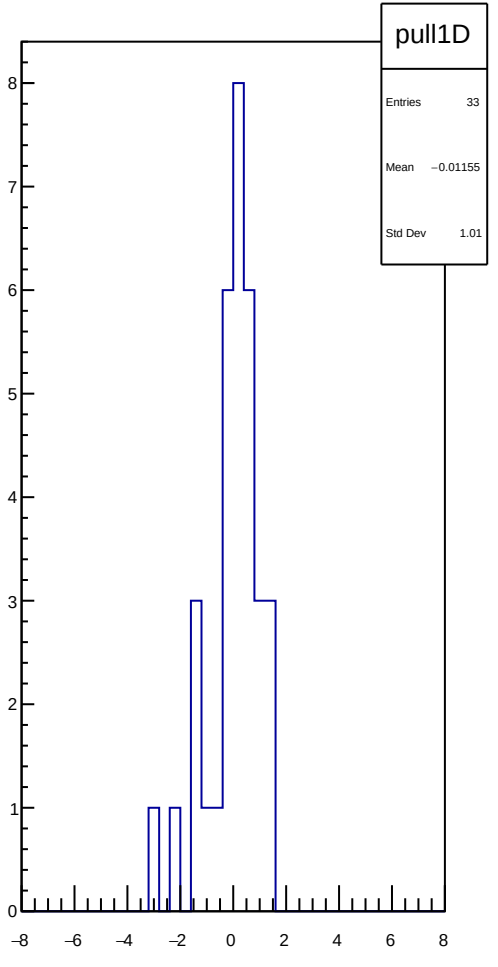

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.683e+05 / 32
p0 51.73 ± 0.07439
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

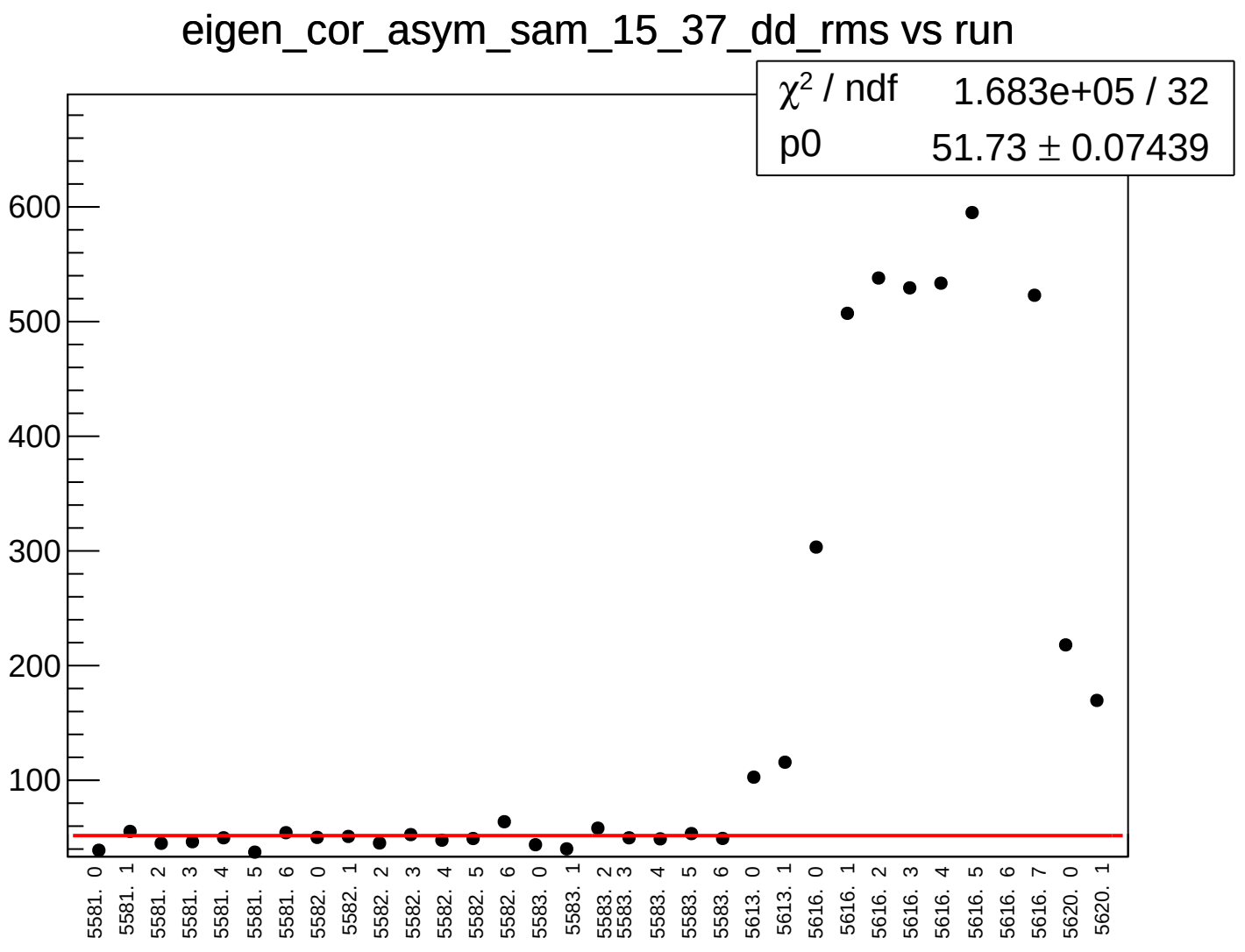

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 34.48 / 25
p0 1013 ± 872.9
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −88.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

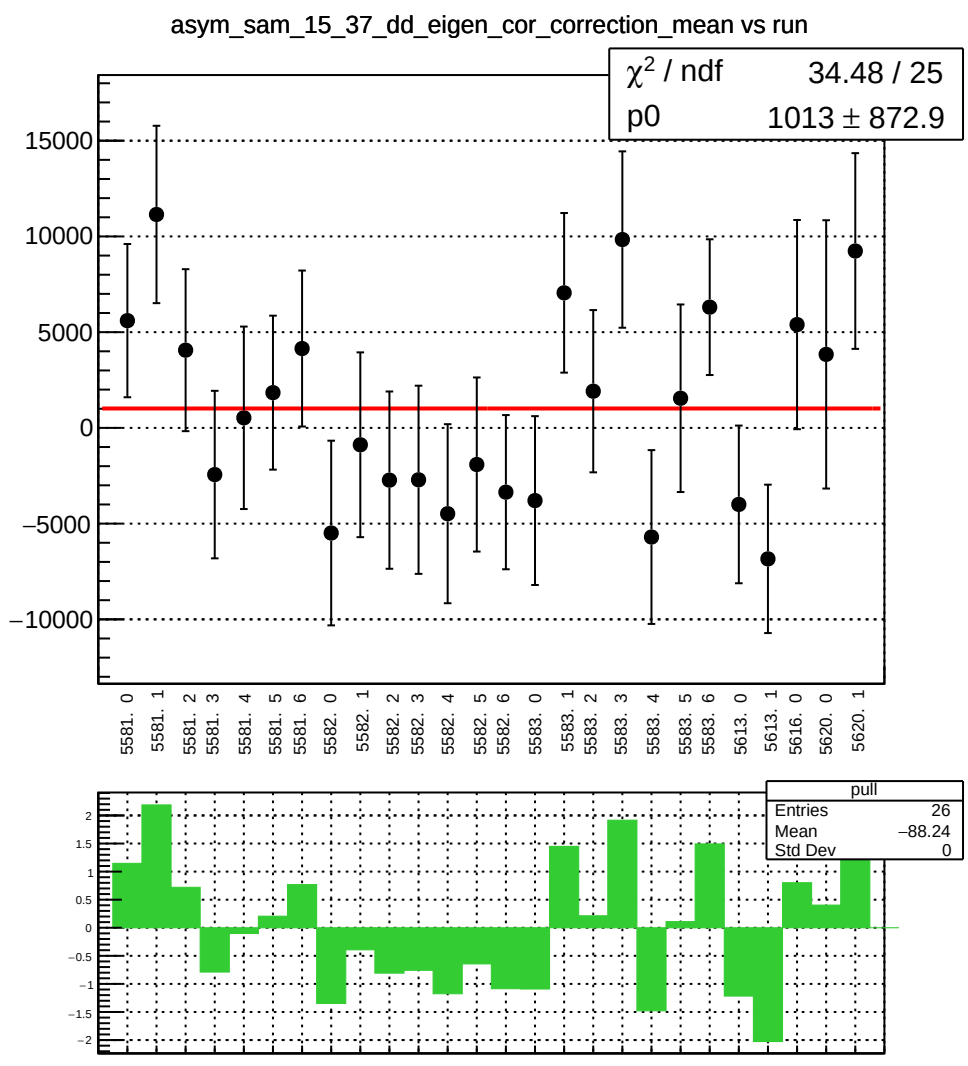

pull1D
Entries 26
Mean 0.004208
Std Dev 1.152
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

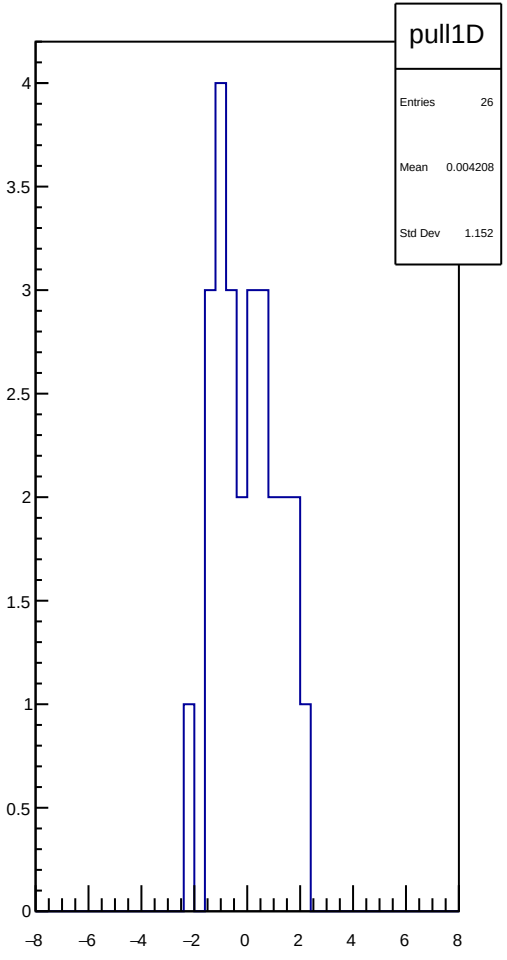

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 6283 / 25
p0 441.6 ± 0.6172
650
600
550
500
450
400
350
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

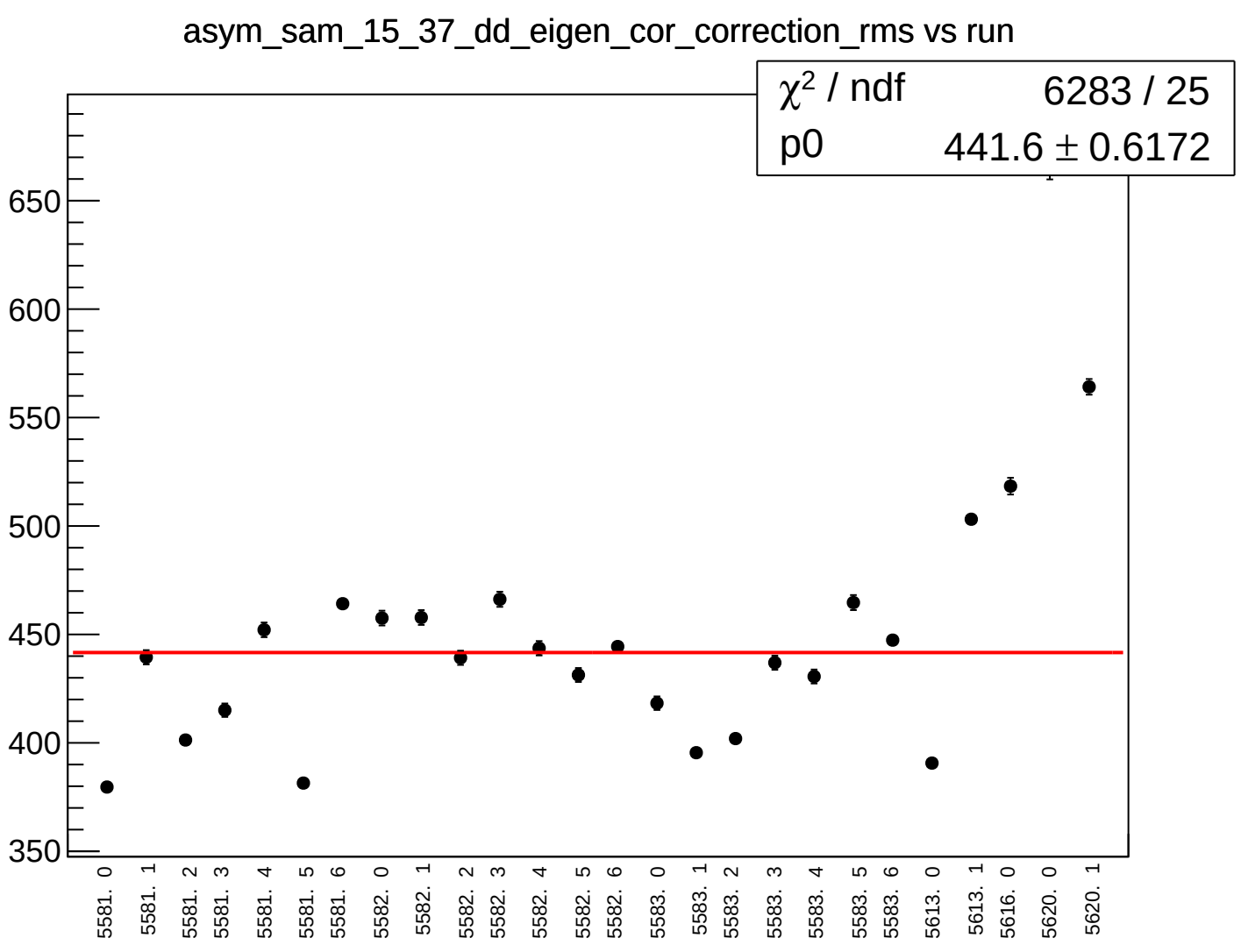

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 33.67 / 32
p0 37.79 ± 105.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 216.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

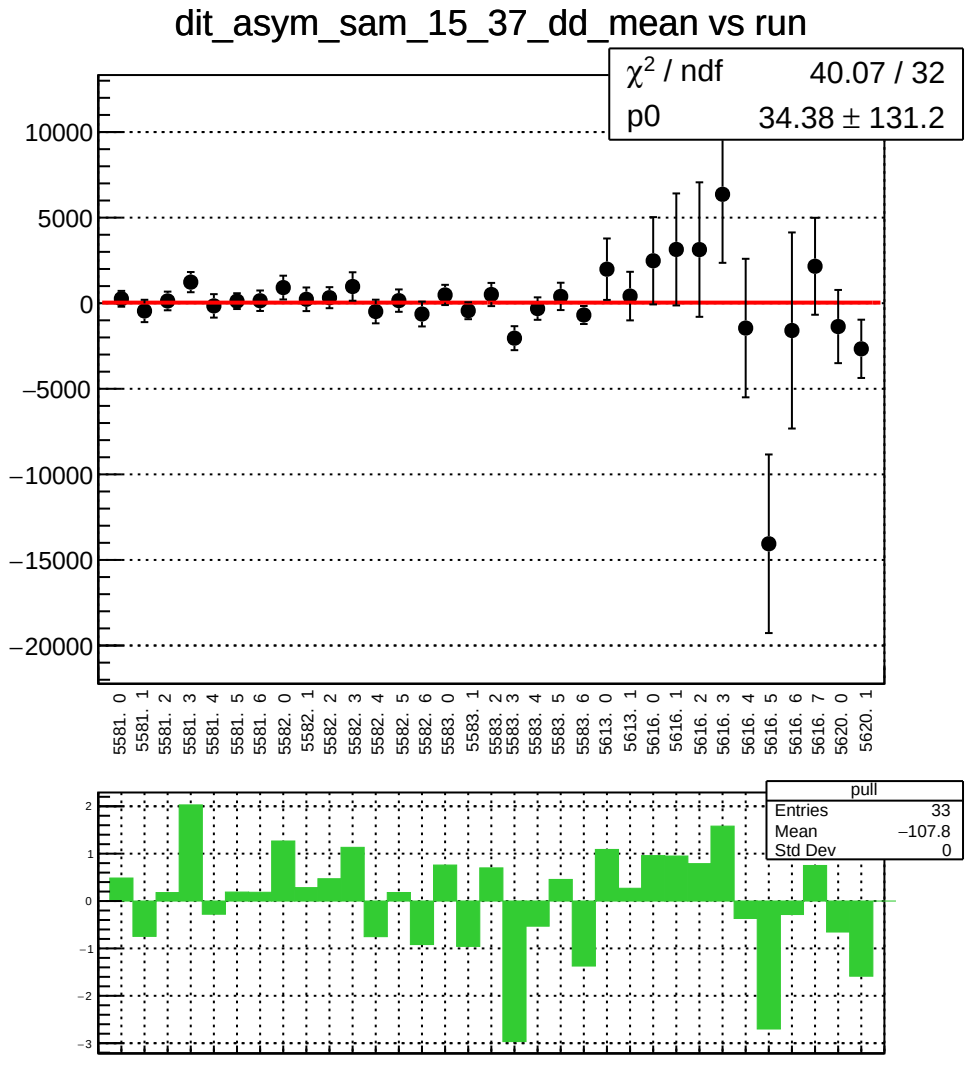

pull1D
Entries 33
Mean −0.01155
Std Dev 1.01
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

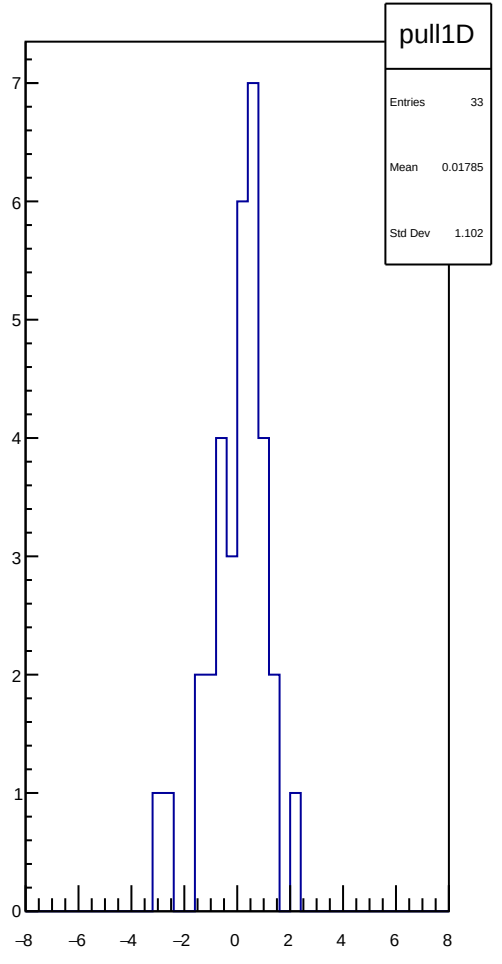

eigen_cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.683e+05 / 32
p0 51.73 ± 0.07439
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

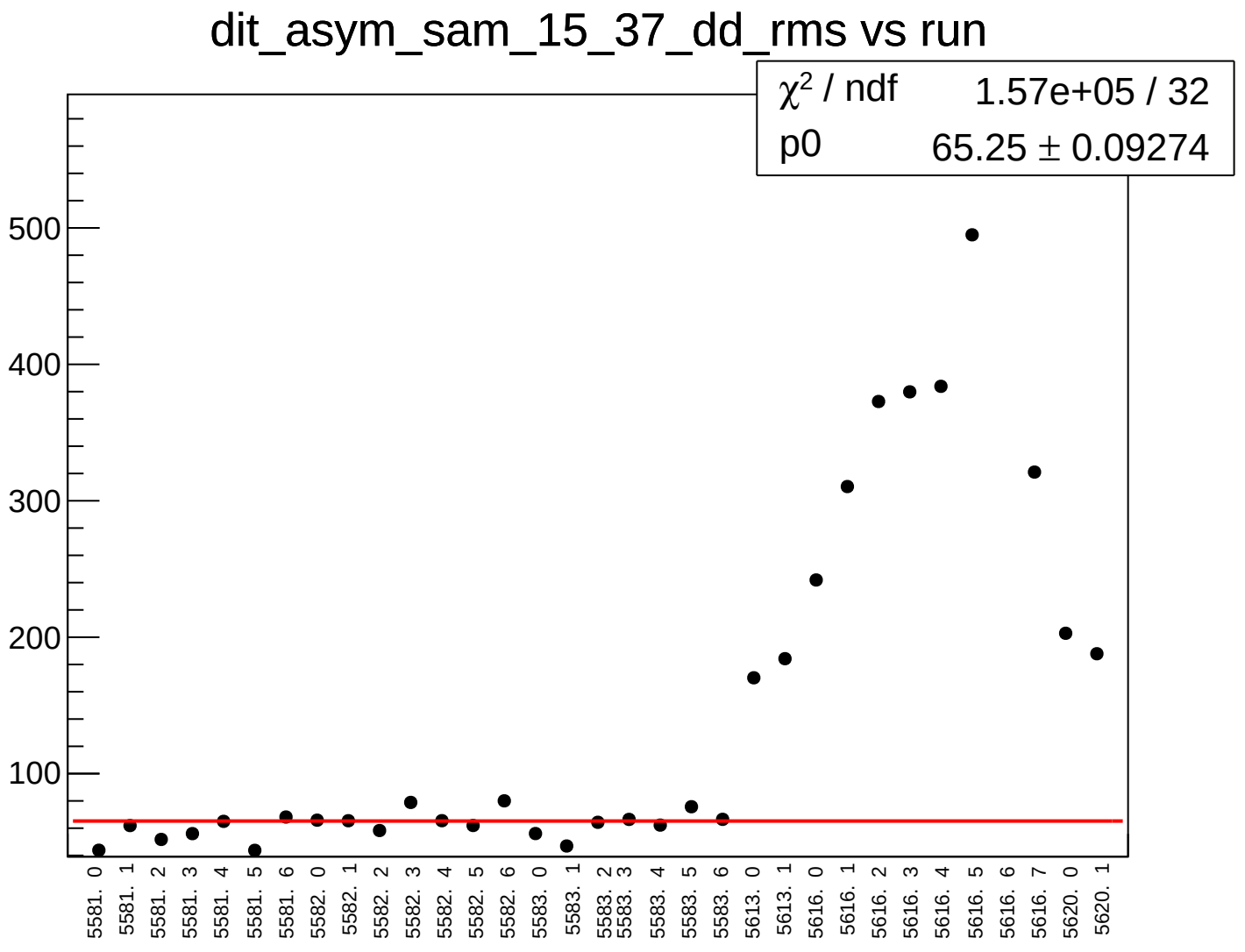

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 34.48 / 25
p0 1013 ± 872.9
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −88.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

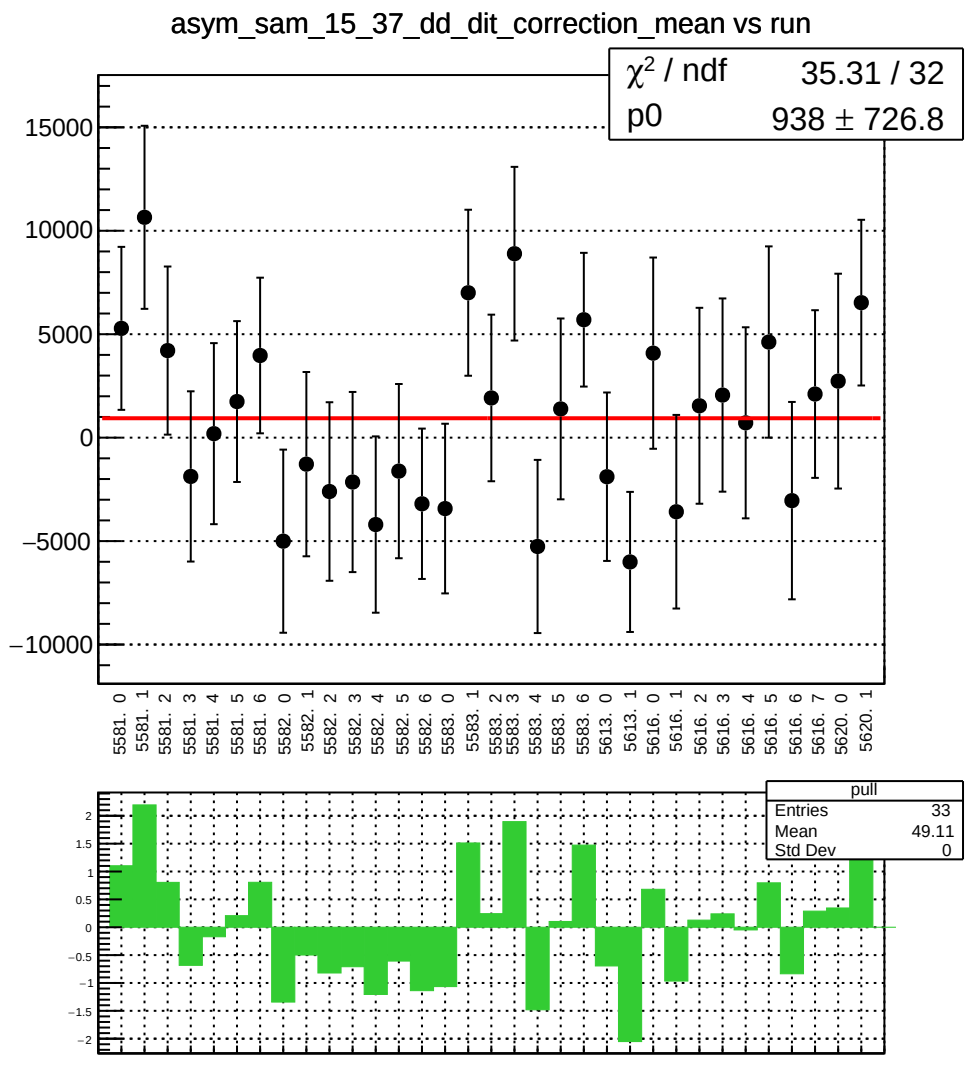

pull1D
Entries 26
Mean 0.004208
Std Dev 1.152
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

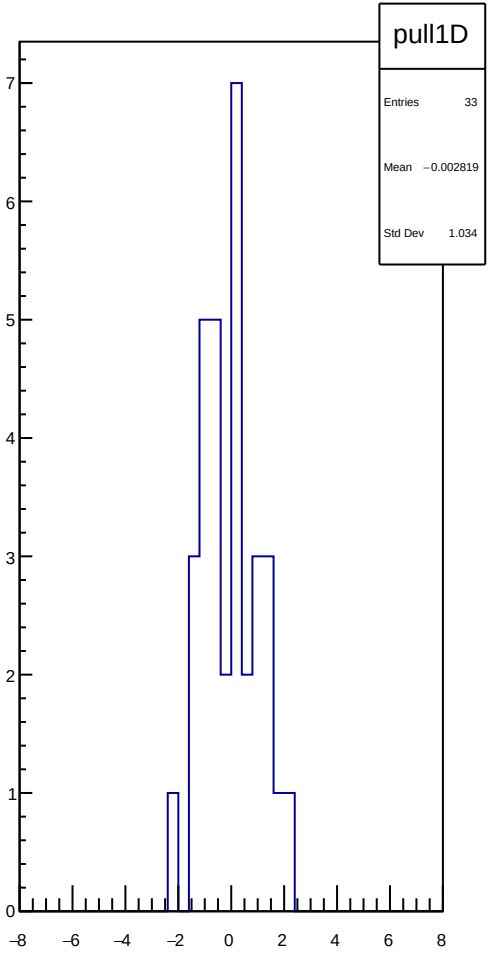

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 6283 / 25
p0 441.6 ± 0.6172
650
600
550
500
450
400
350
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

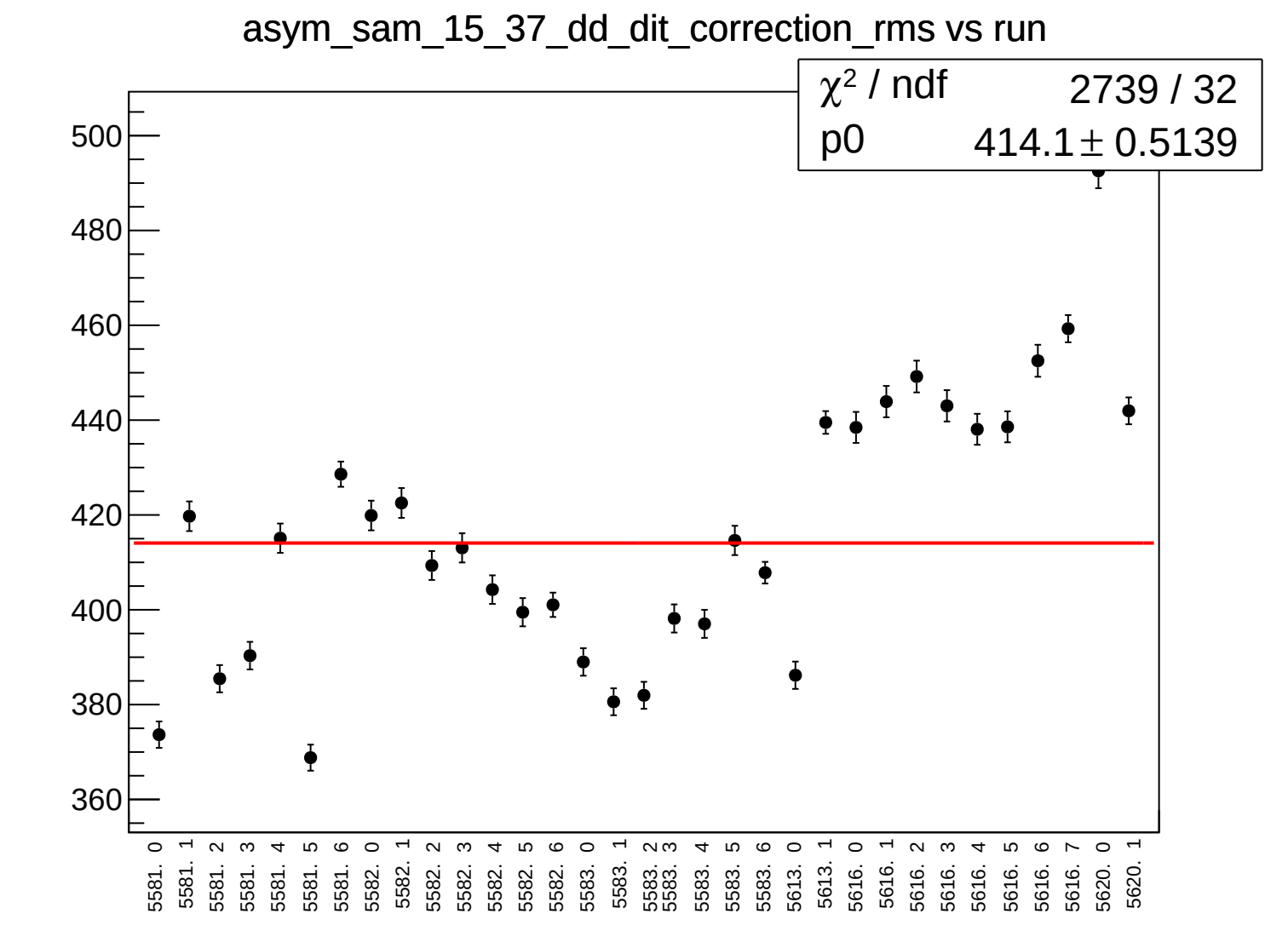

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 40.07 / 32
p0 34.38 ± 131.2
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −107.8
Std Dev 0
2
1
0
−1
−2
−3

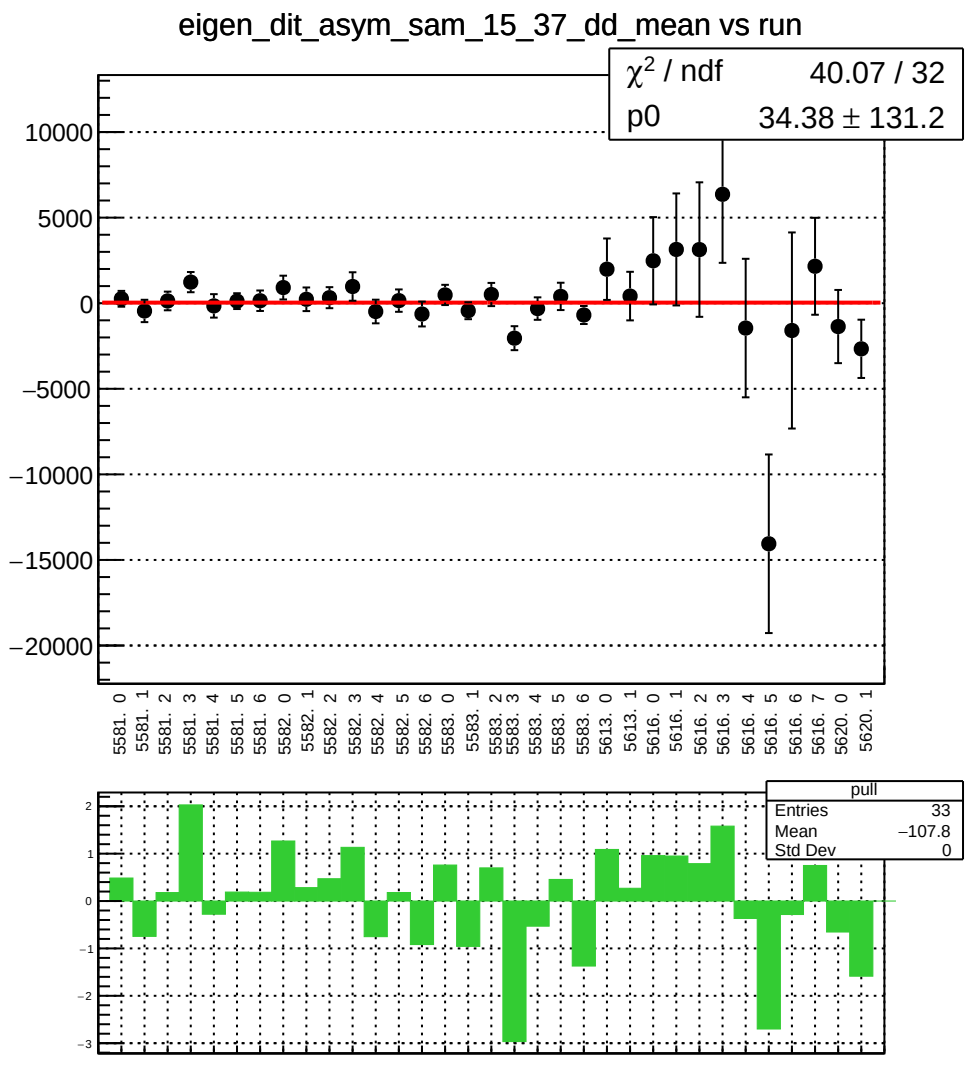

pull1D
Entries 33
Mean 0.01785
Std Dev 1.102
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

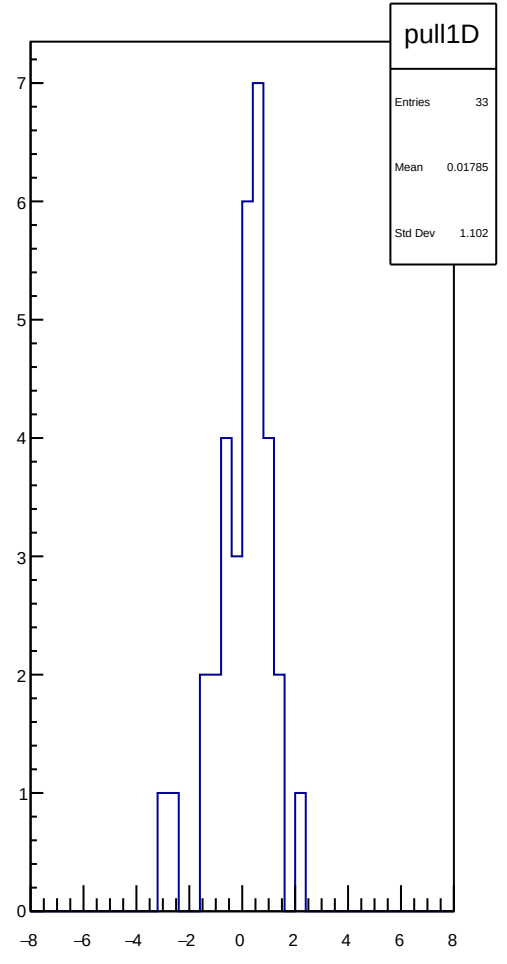

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.57e+05 / 32
p0 65.25 ± 0.09274
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

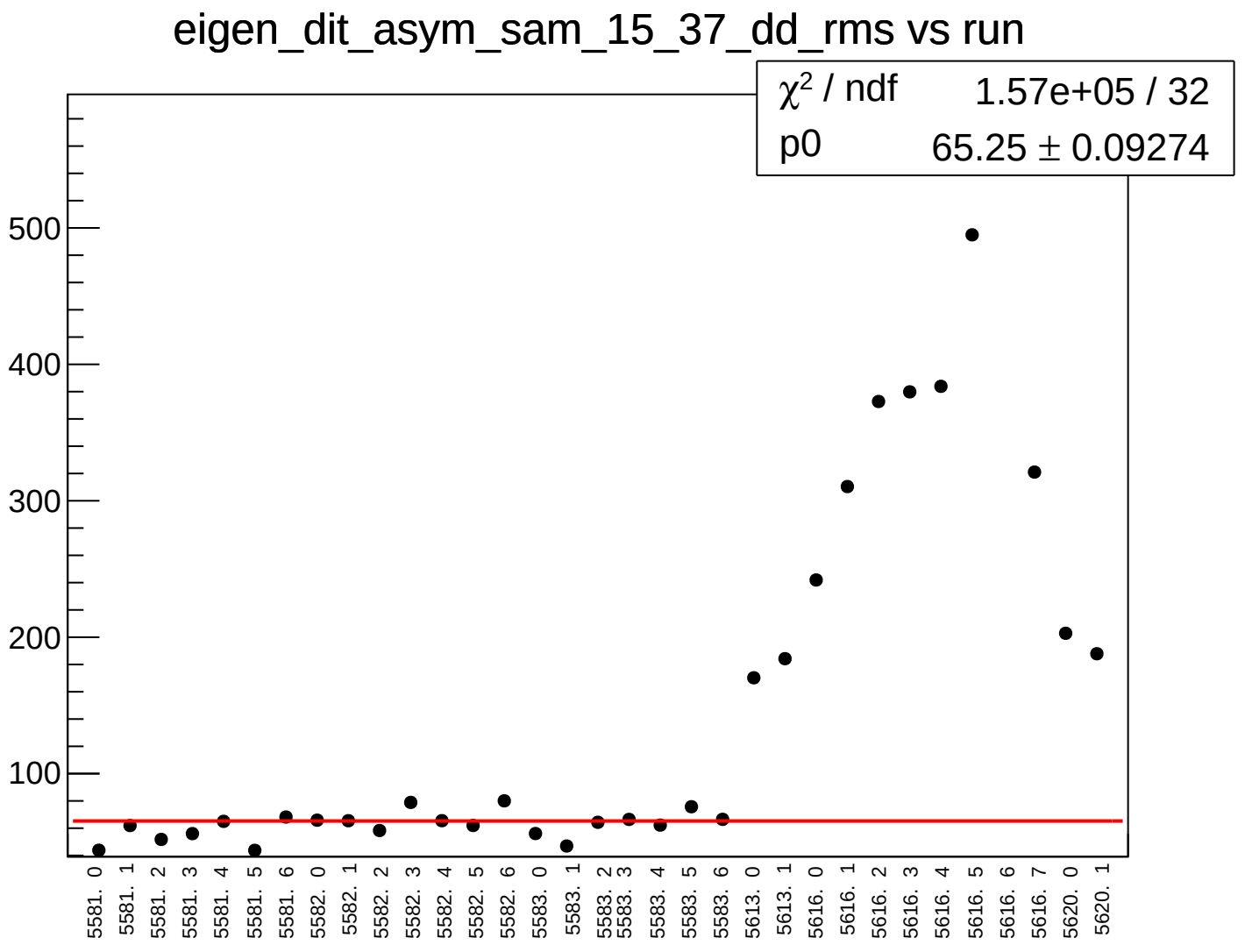

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 35.31 / 32
p0 938 ± 726.8
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

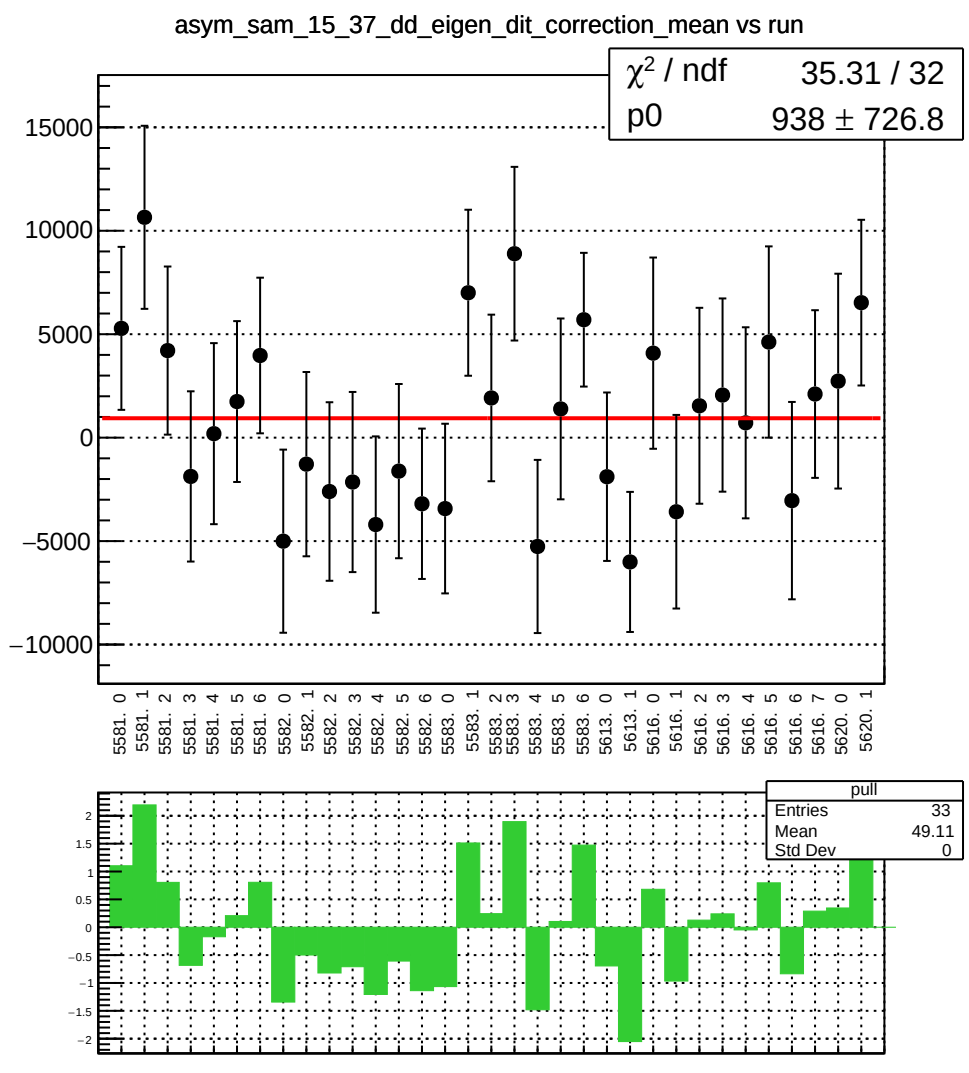

pull1D
Entries 33
Mean −0.002819
Std Dev 1.034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

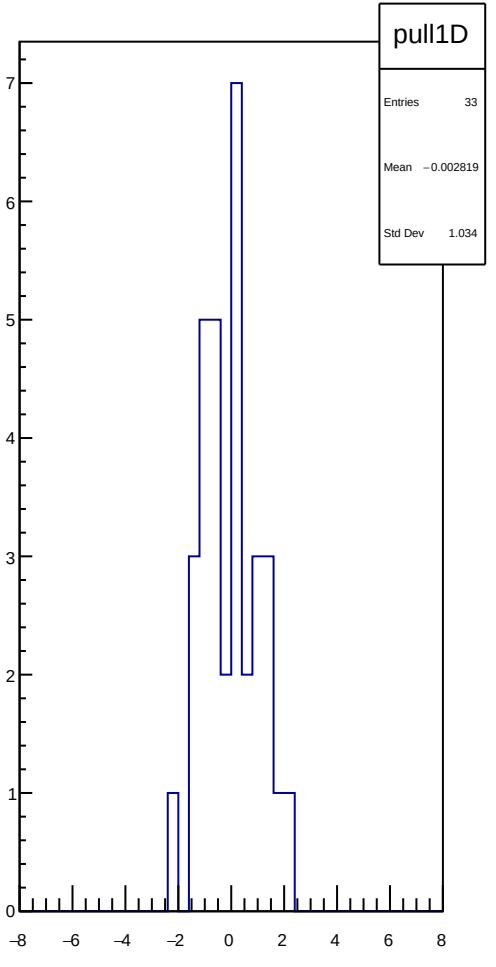

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 2739 / 32
p0 414.1 ± 0.5139
500
480
460
440
420
400
380
360
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

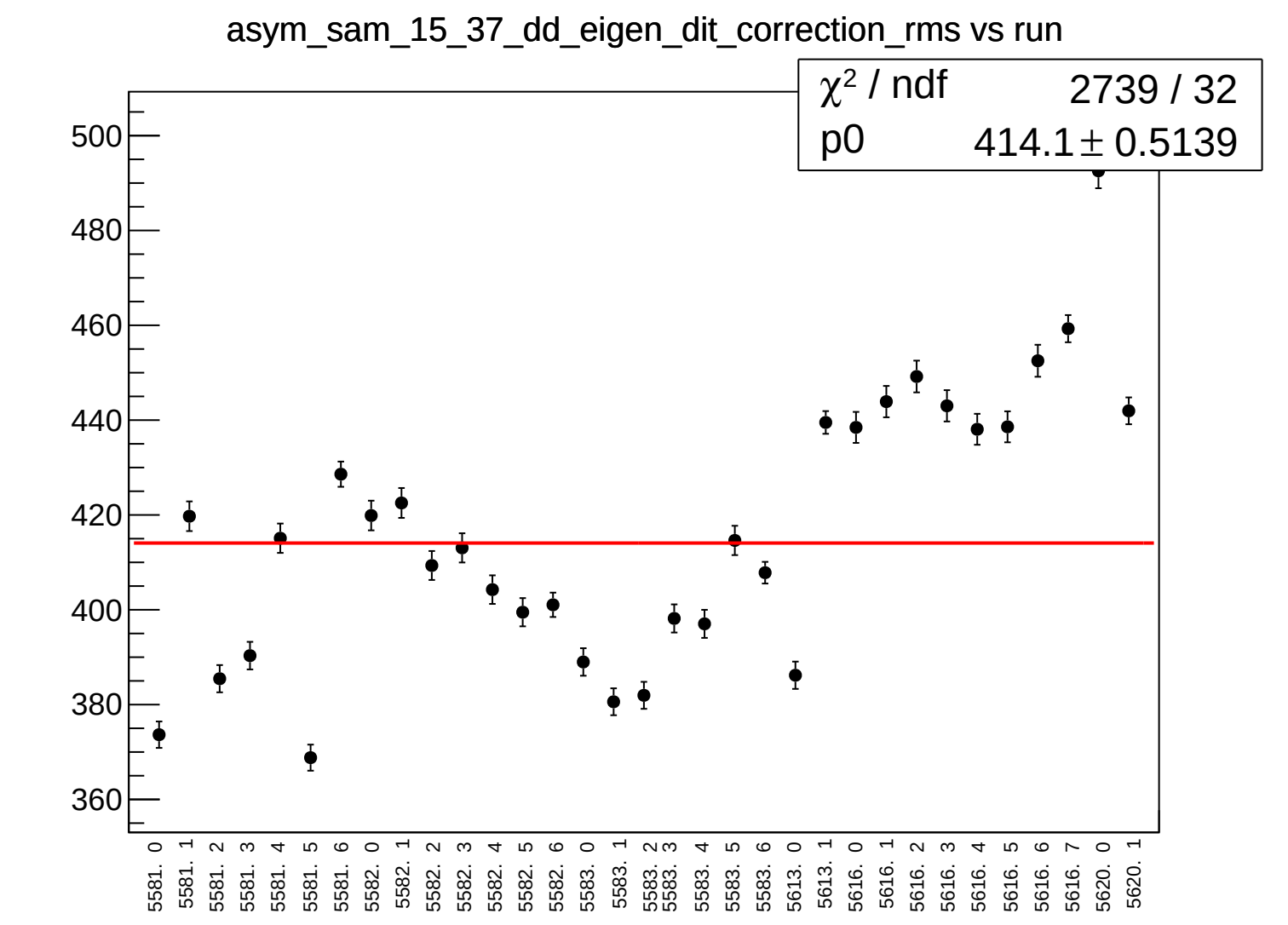

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 40.07 / 32
p0 34.38 ± 131.2
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −107.8
Std Dev 0
2
1
0
−1
−2
−3

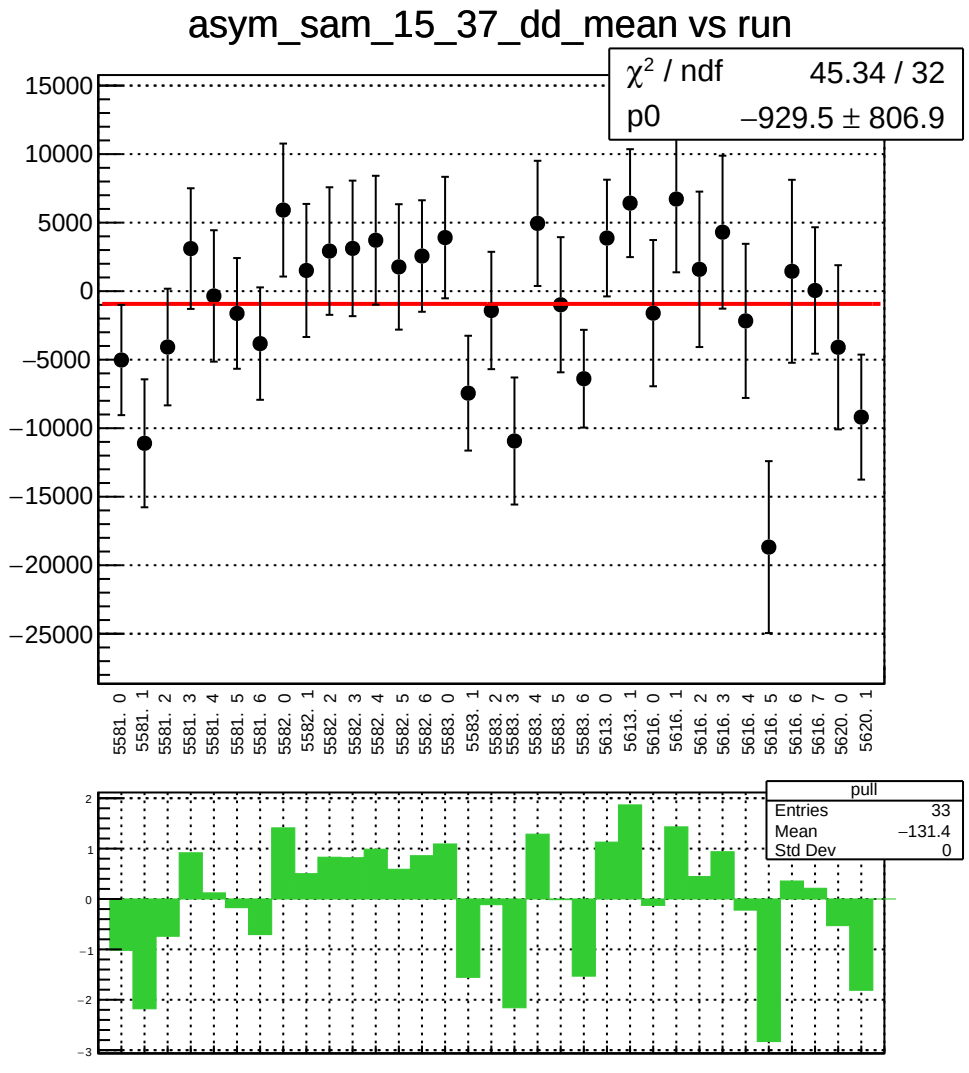

pull1D
Entries 33
Mean 0.01785
Std Dev 1.102
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

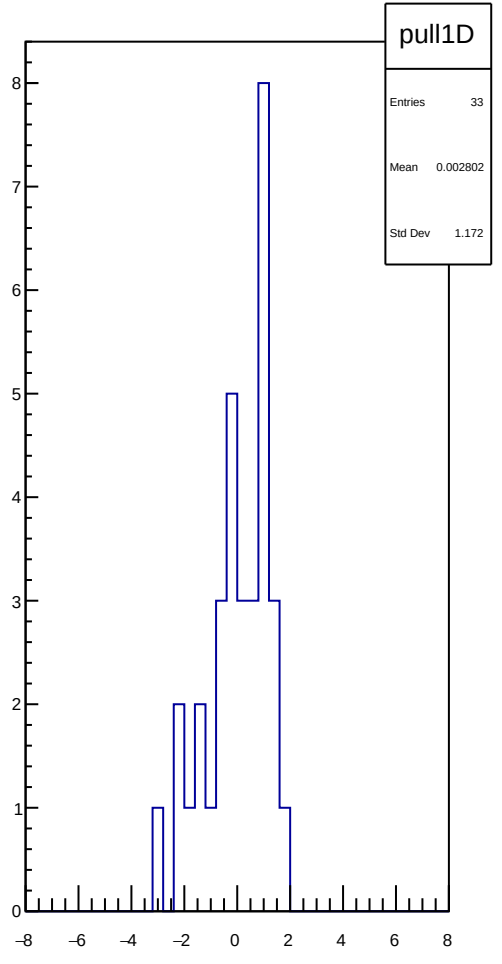

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.57e+05 / 32
p0 65.25 ± 0.09274
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

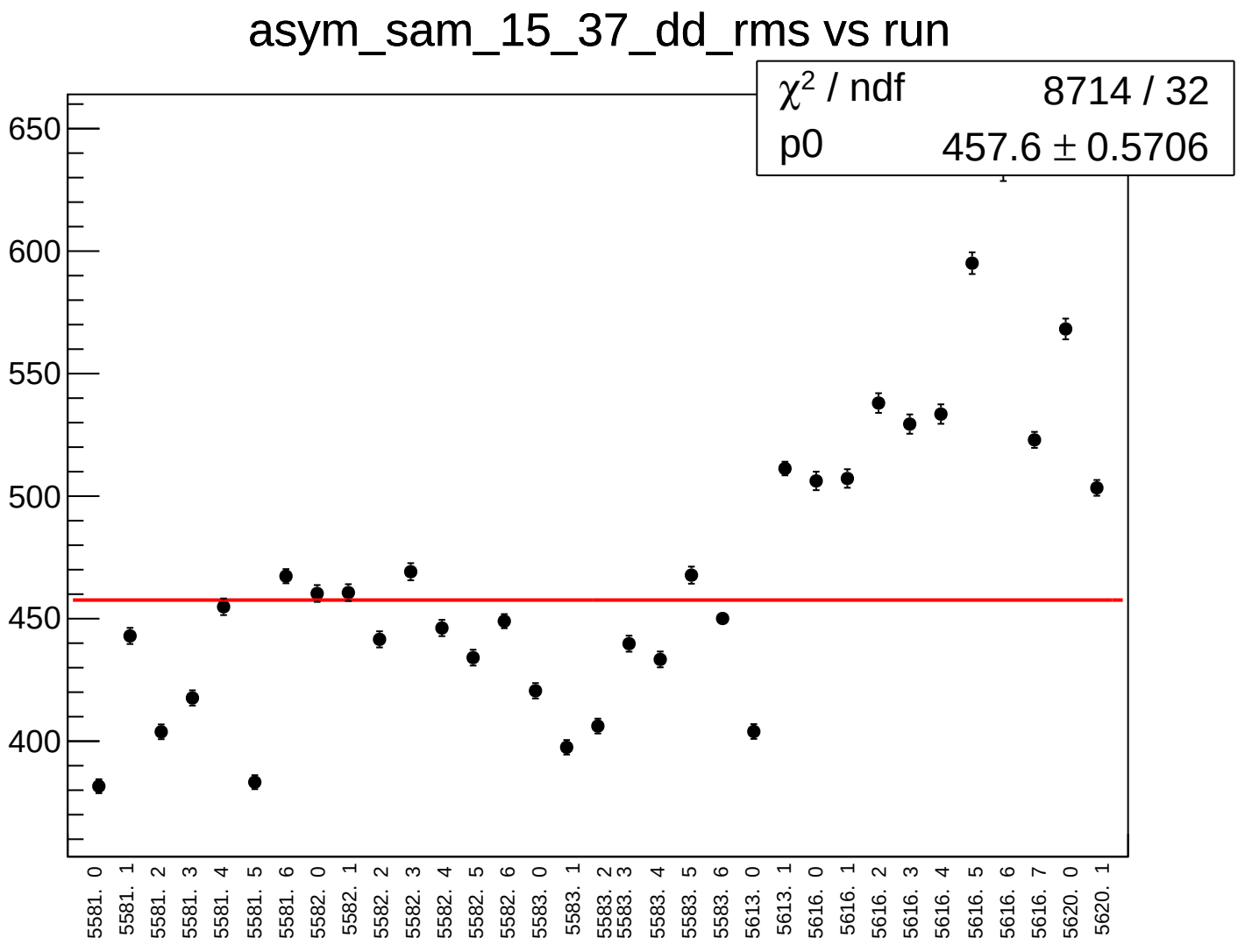

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 35.31 / 32
p0 938 ± 726.8
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

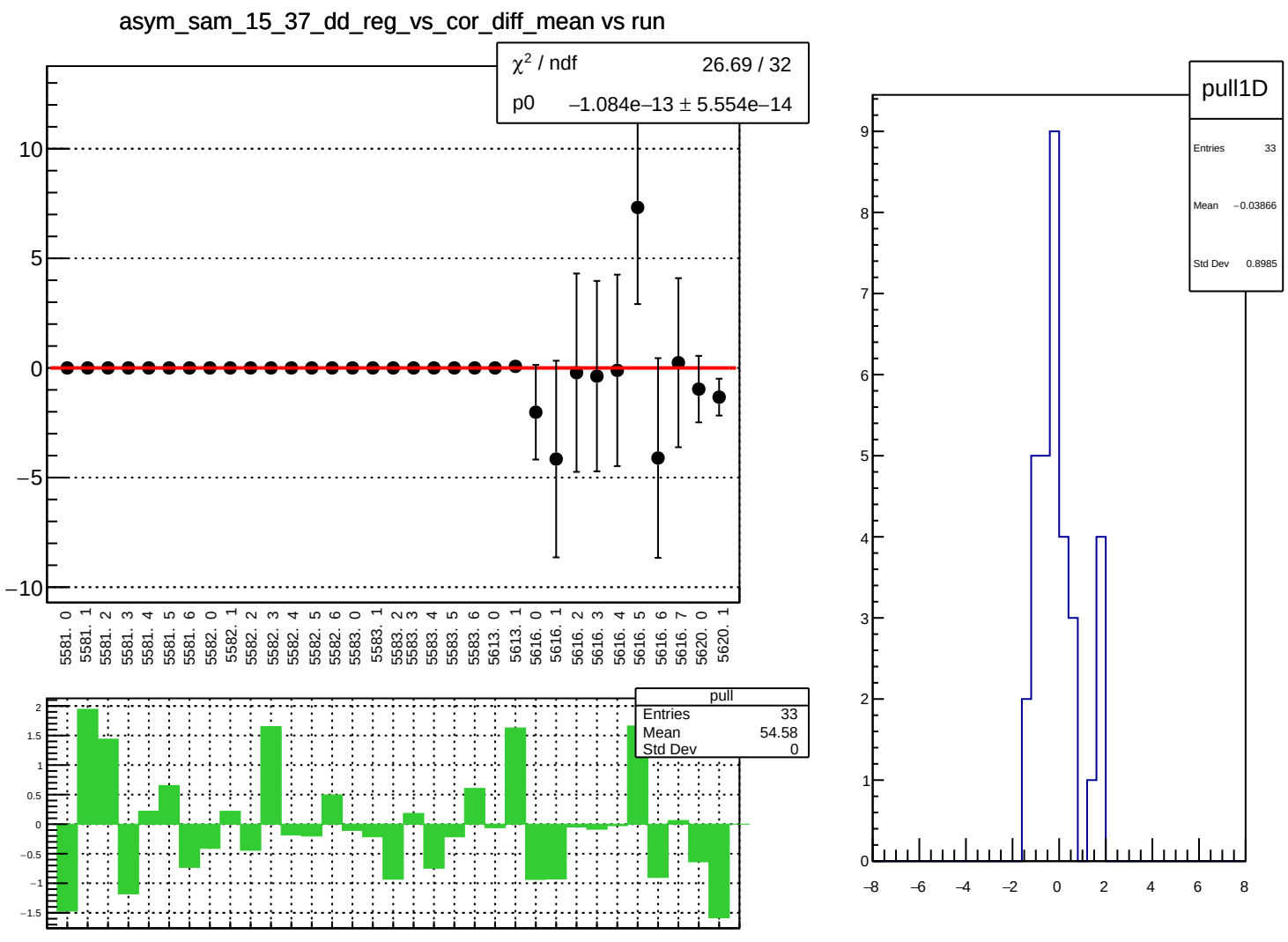

pull1D
Entries 33
Mean −0.002819
Std Dev 1.034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

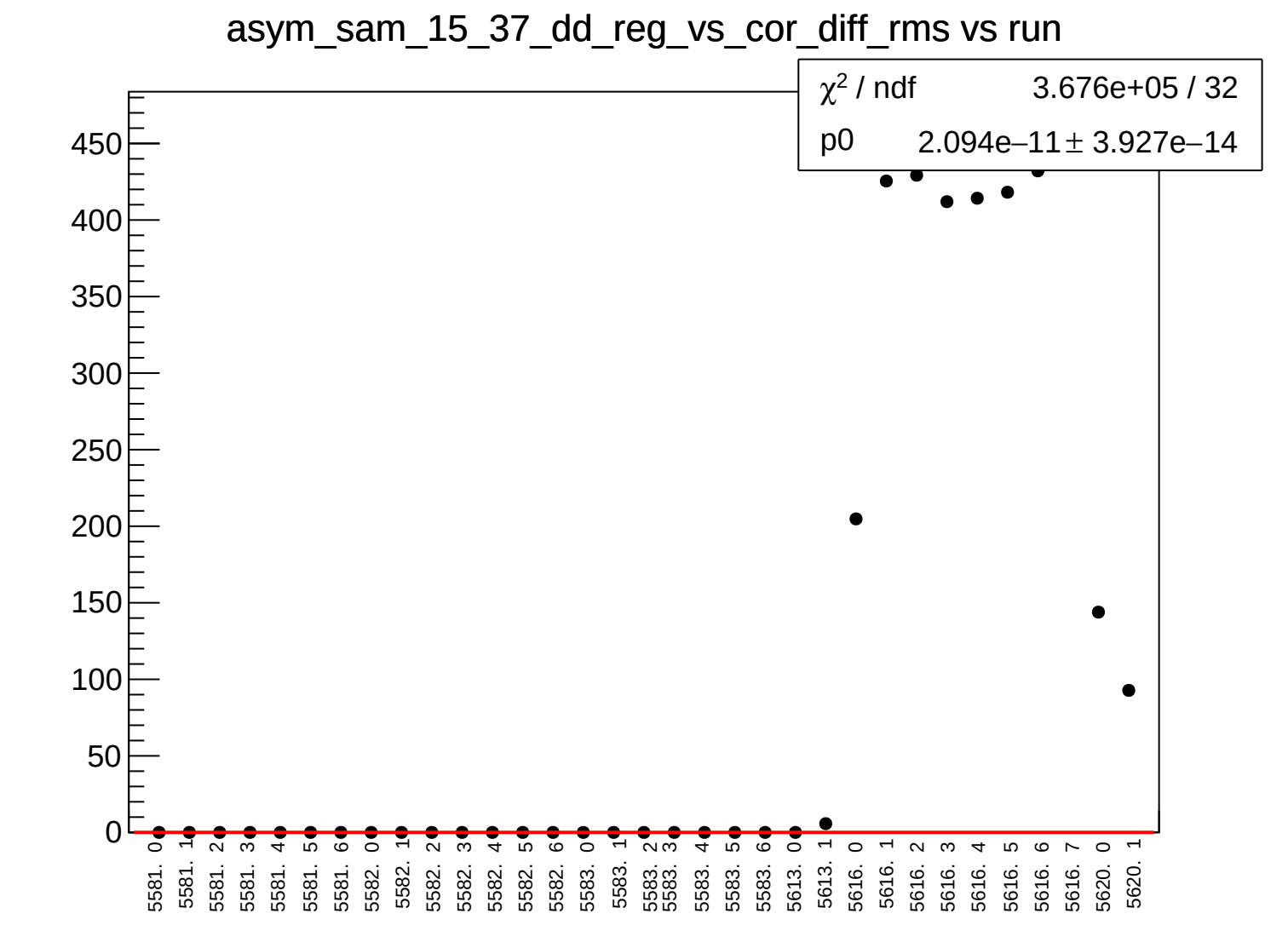

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2739 / 32
p0 414.1 ± 0.5139
500
480
460
440
420
400
380
360
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

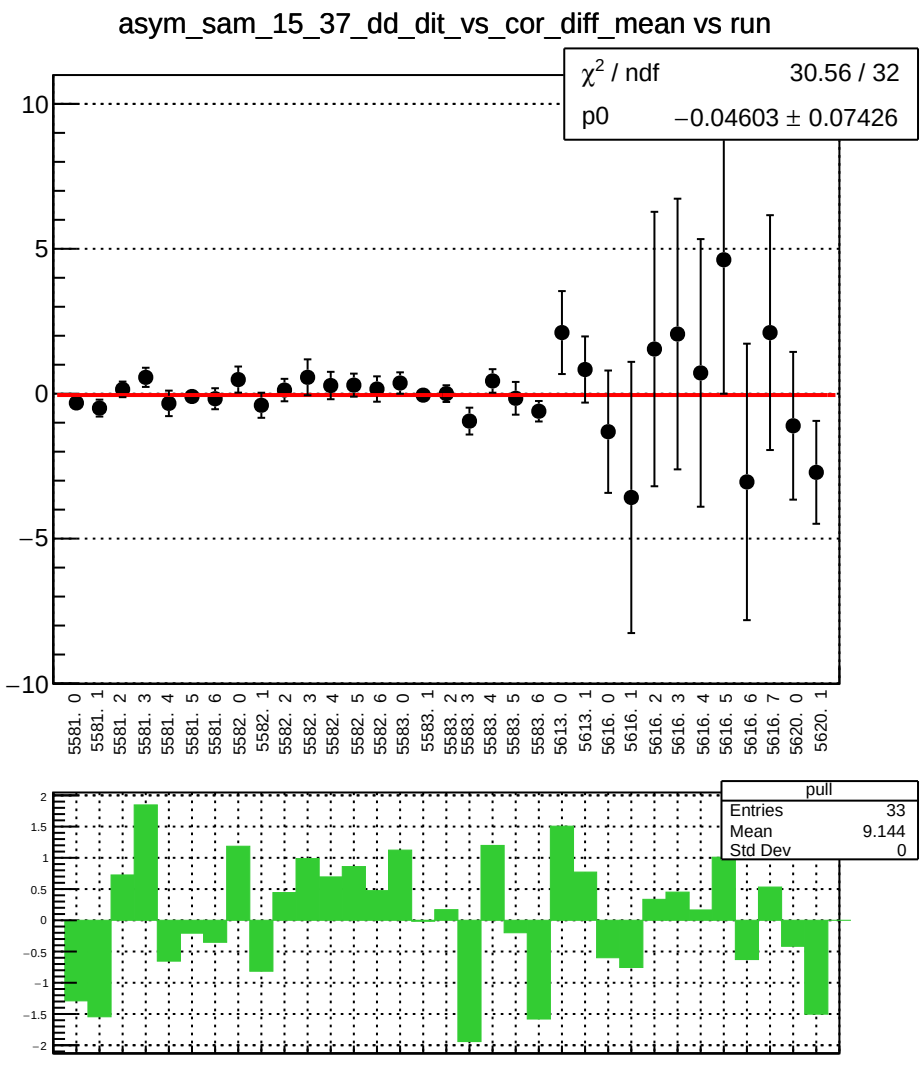

asym_sam_15_37_dd_mean vs run
χ² / ndf 45.34 / 32
p0 −929.5 ± 806.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −131.4
Std Dev 0
2
1
0
−1
−2
−3

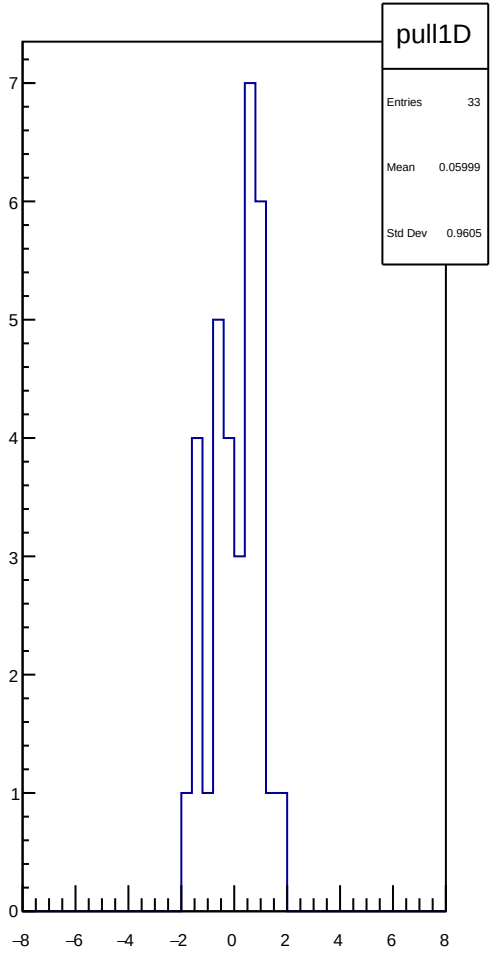

pull1D
Entries 33
Mean 0.002802
Std Dev 1.172
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

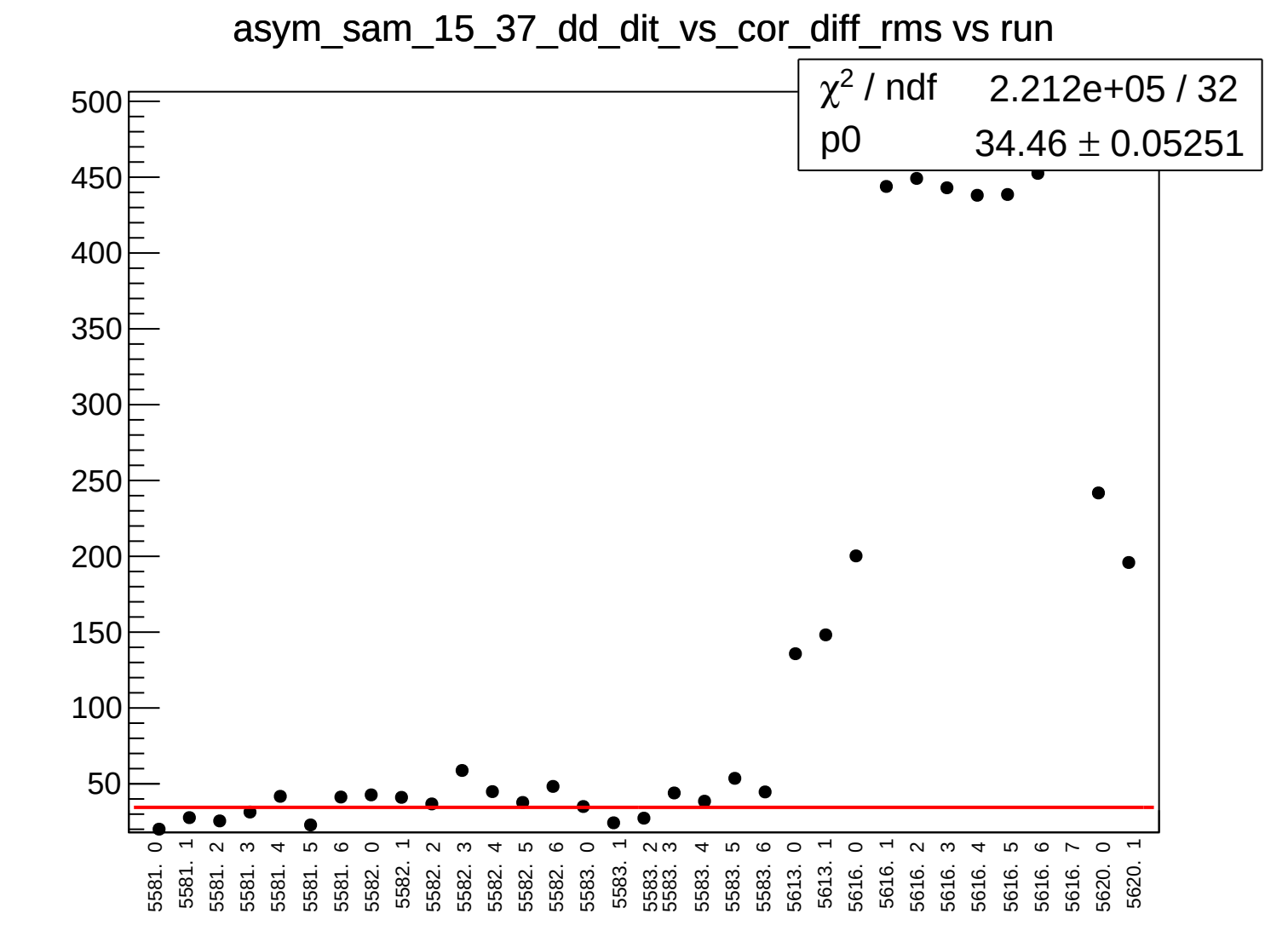

asym_sam_15_37_dd_rms vs run
χ² / ndf 8714 / 32
p0 457.6 ± 0.5706
650
600
550
500
450
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

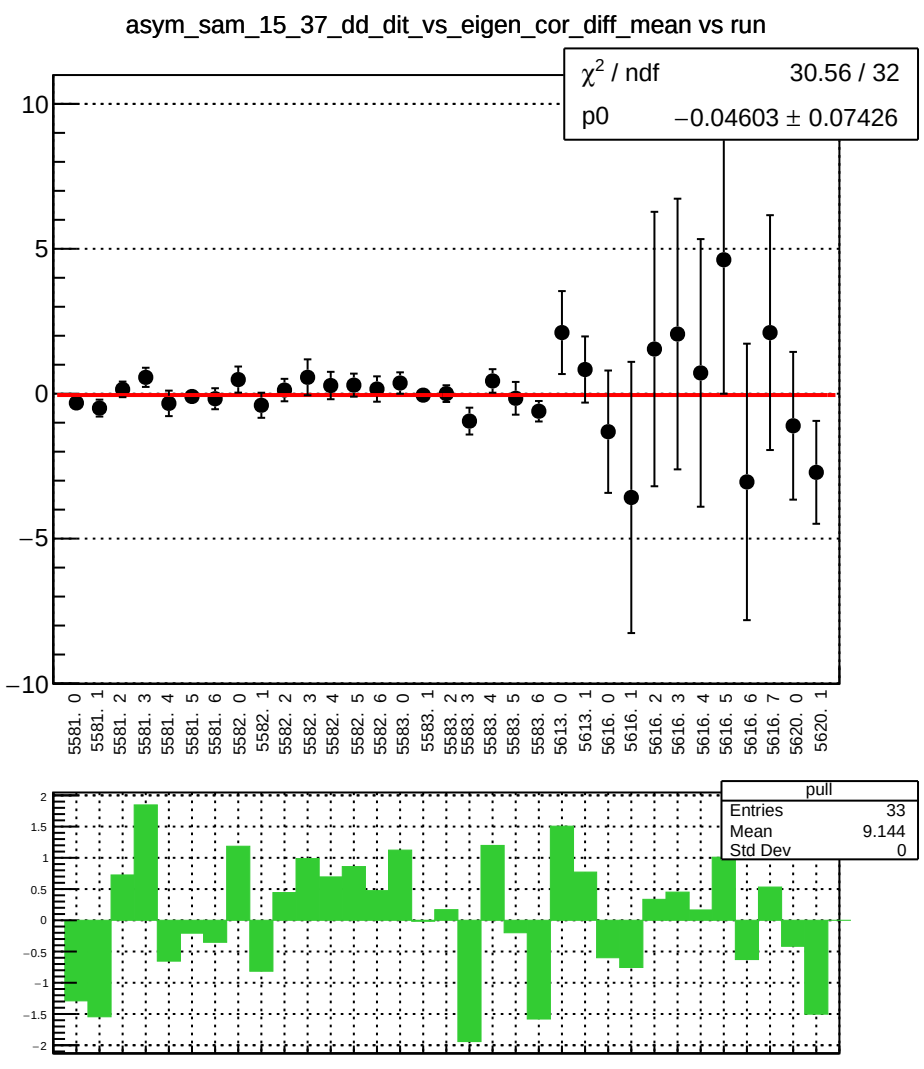

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 26.69 / 32
p0 −1.084e−13 ± 5.554e−14
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 54.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.03866
Std Dev 0.8985
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

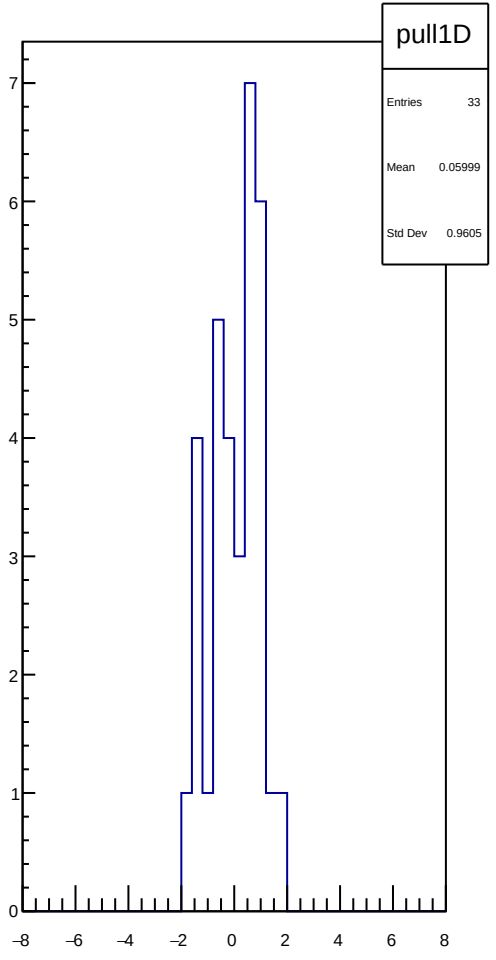

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.676e+05 / 32
p0 2.094e−11 ± 3.927e−14
450
400
350
300
250
200
150
100
50
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

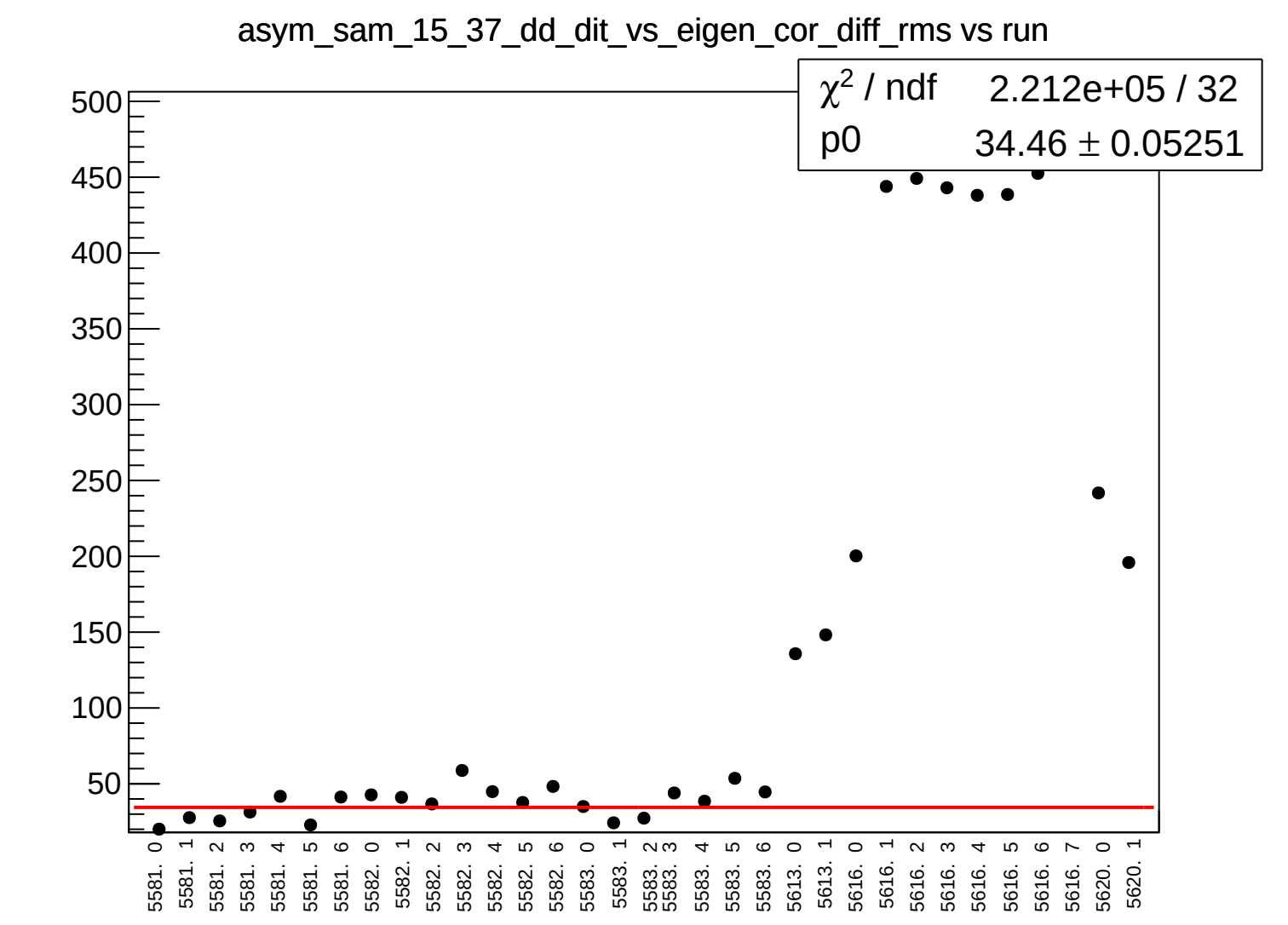

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 30.56 / 32
p0 −0.04603 ± 0.07426
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 9.144
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

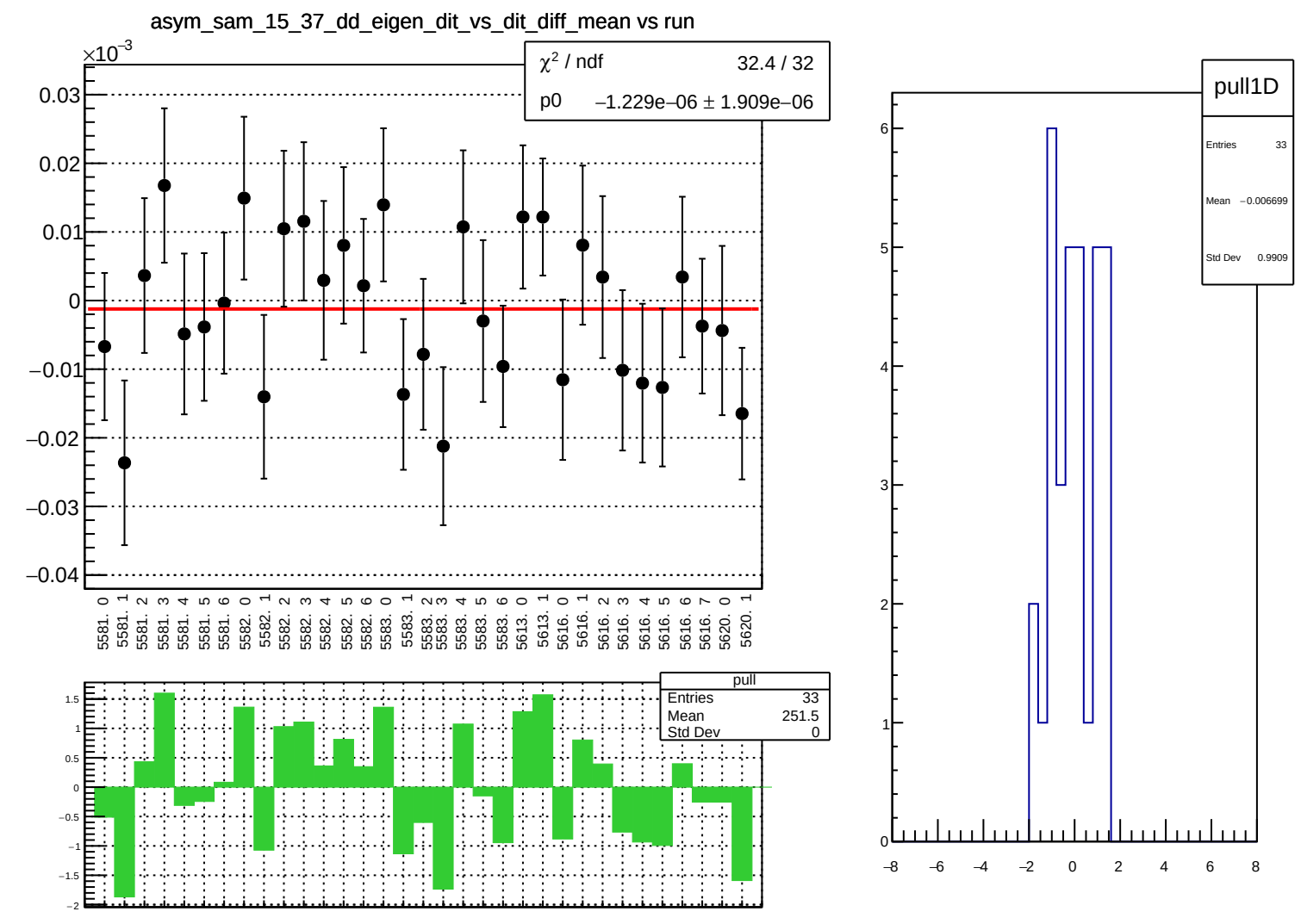

pull1D
Entries 33
Mean 0.05999
Std Dev 0.9605
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

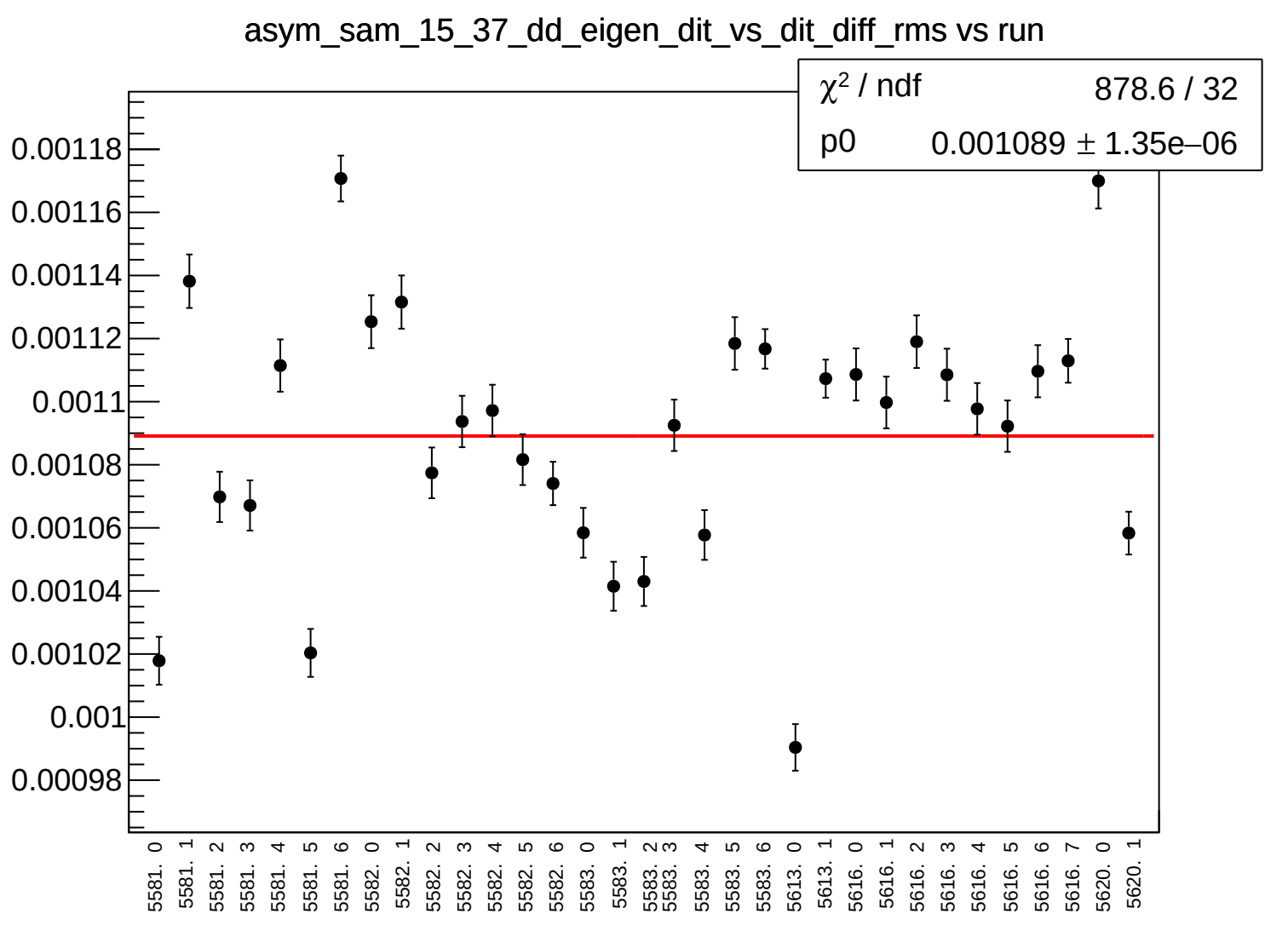

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.212e+05 / 32
p0 34.46 ± 0.05251
500
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

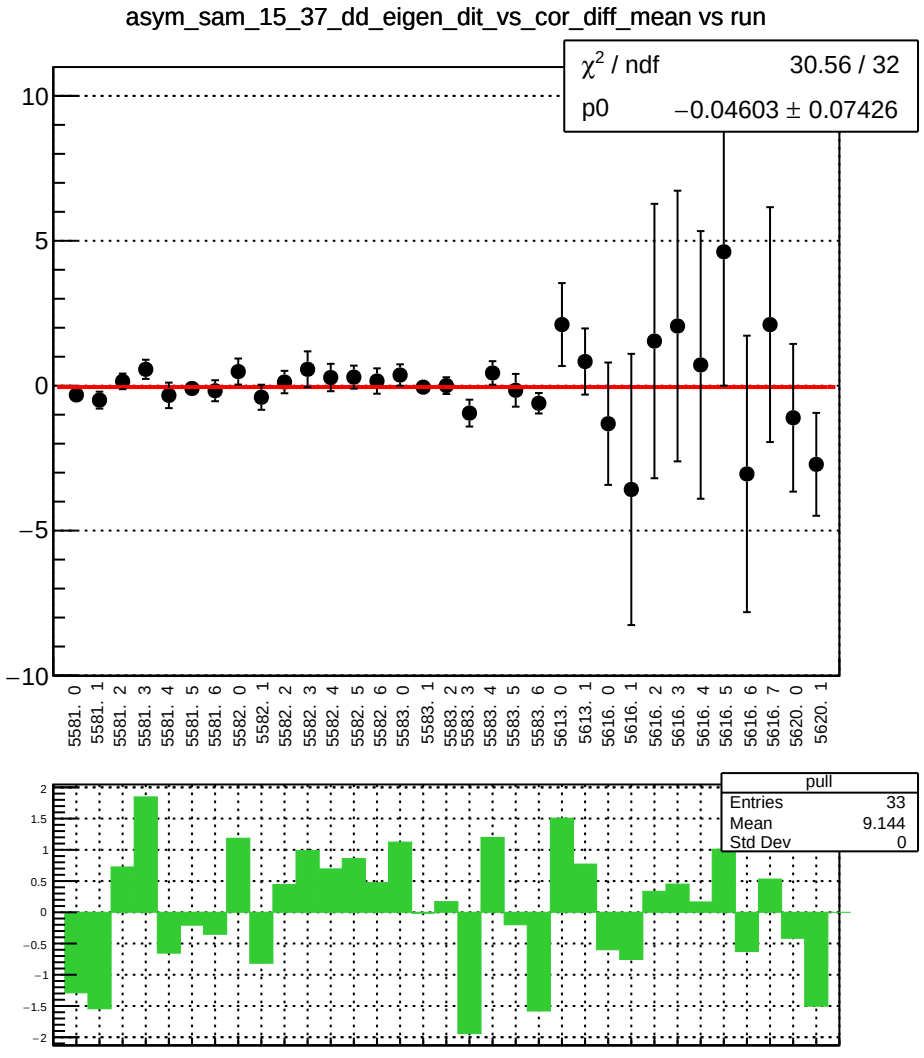

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.56 / 32
p0 −0.04603 ± 0.07426
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 9.144
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

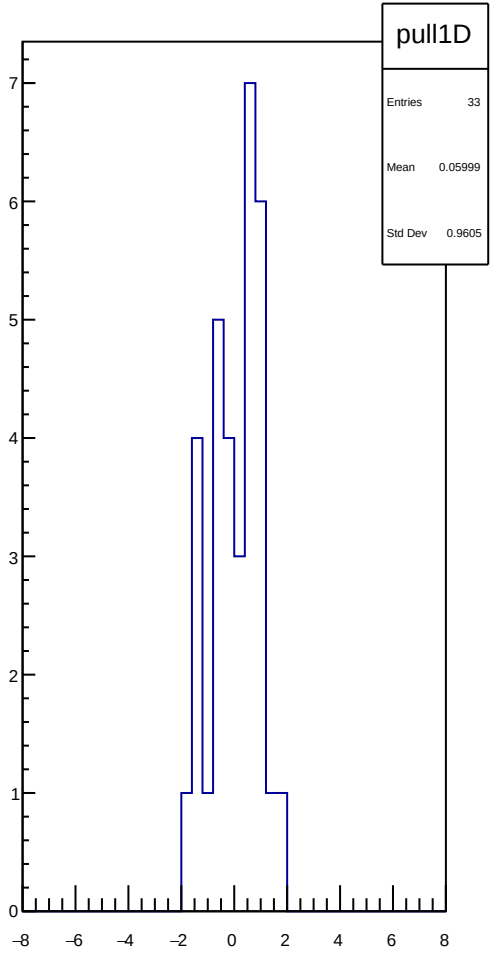

pull1D
Entries 33
Mean 0.05999
Std Dev 0.9605
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

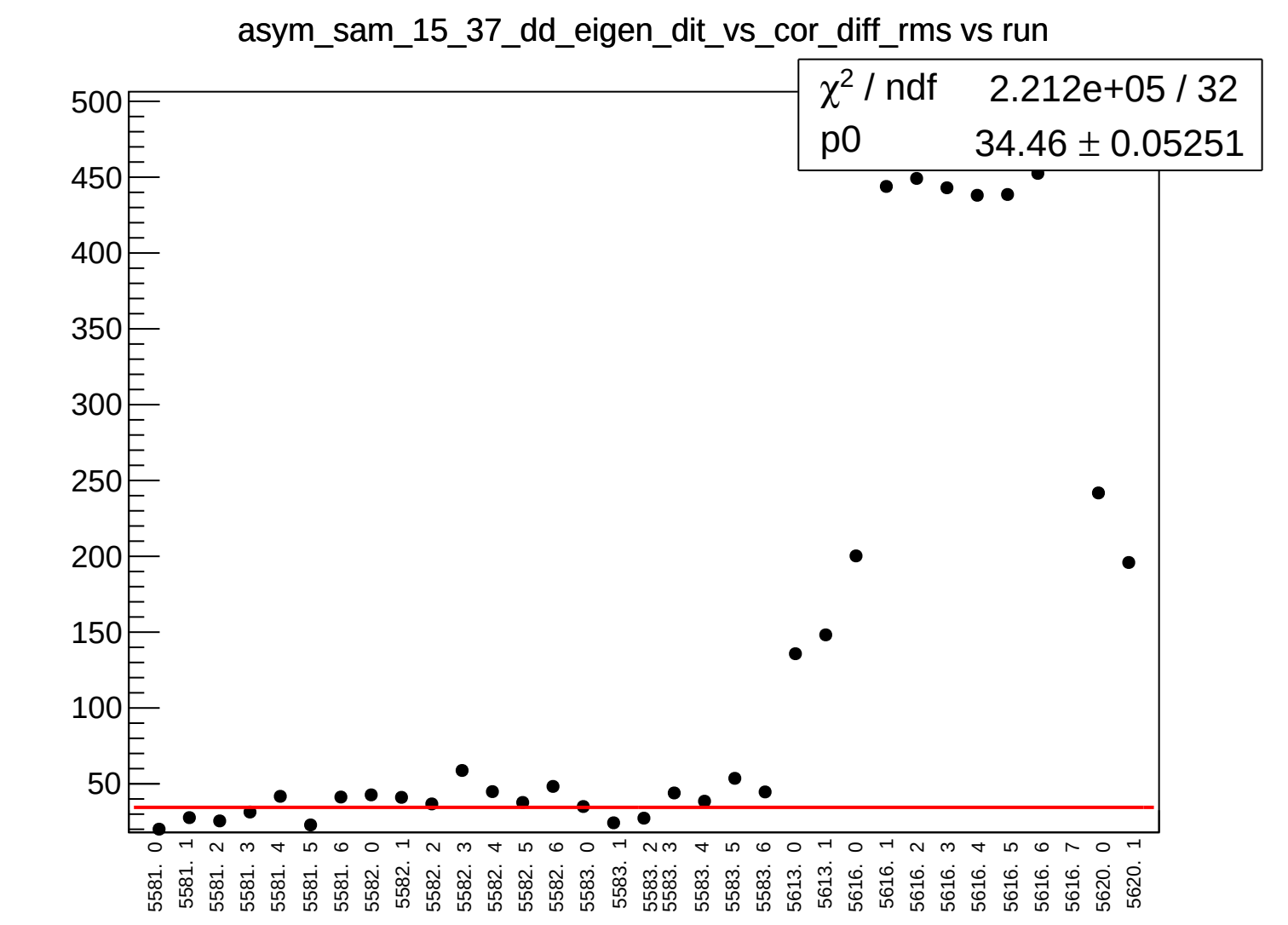

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.212e+05 / 32
p0 34.46 ± 0.05251
500
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

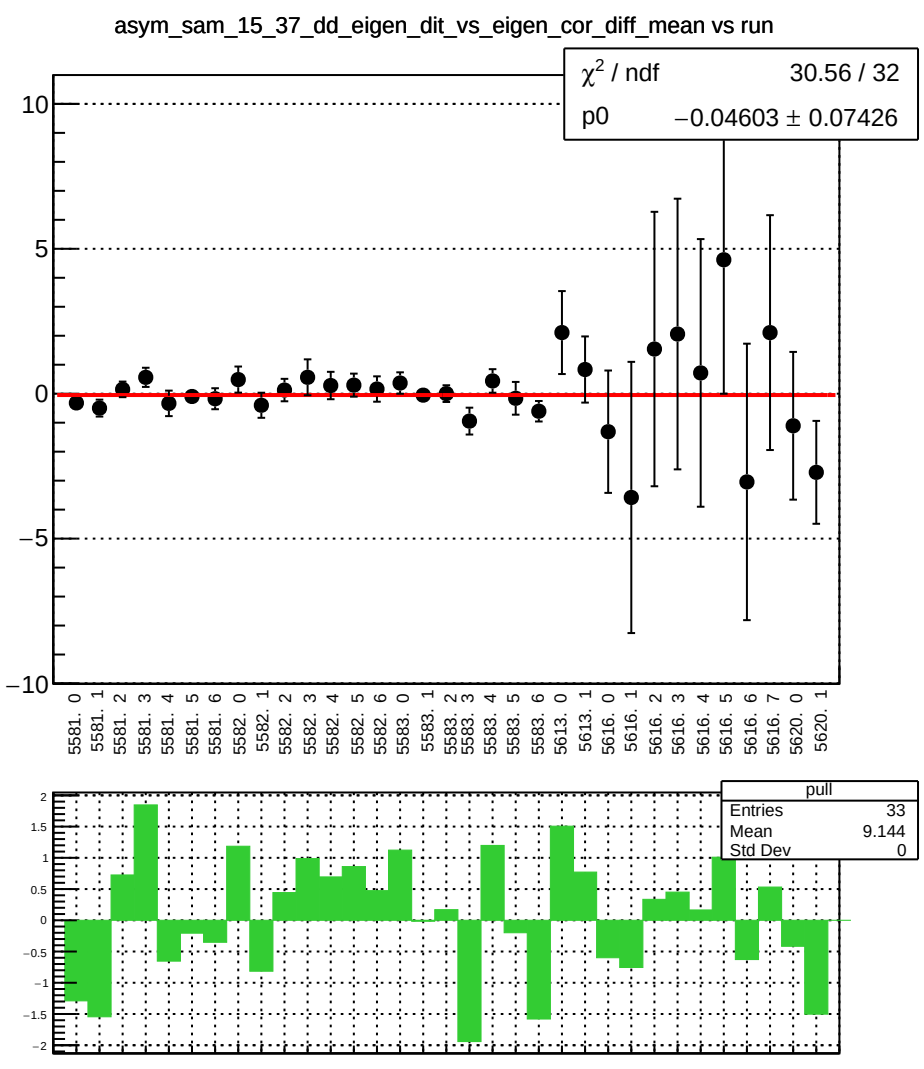

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.4 / 32
p0 −1.229e−06 ± 1.909e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 251.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.006699
Std Dev 0.9909
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

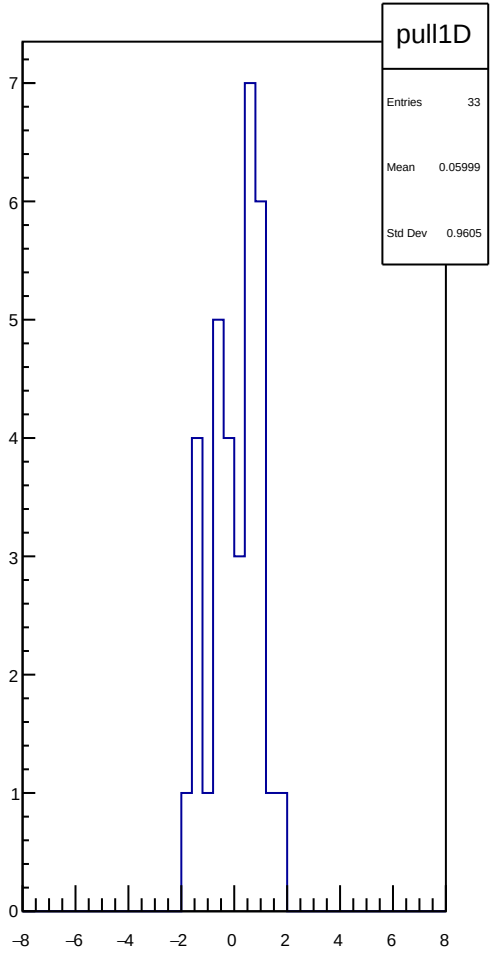

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 878.6 / 32
p0 0.001089 ± 1.35e−06
0.00118
0.00116
0.00114
0.00112
0.0011
0.00108
0.00106
0.00104
0.00102
0.001
0.00098
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

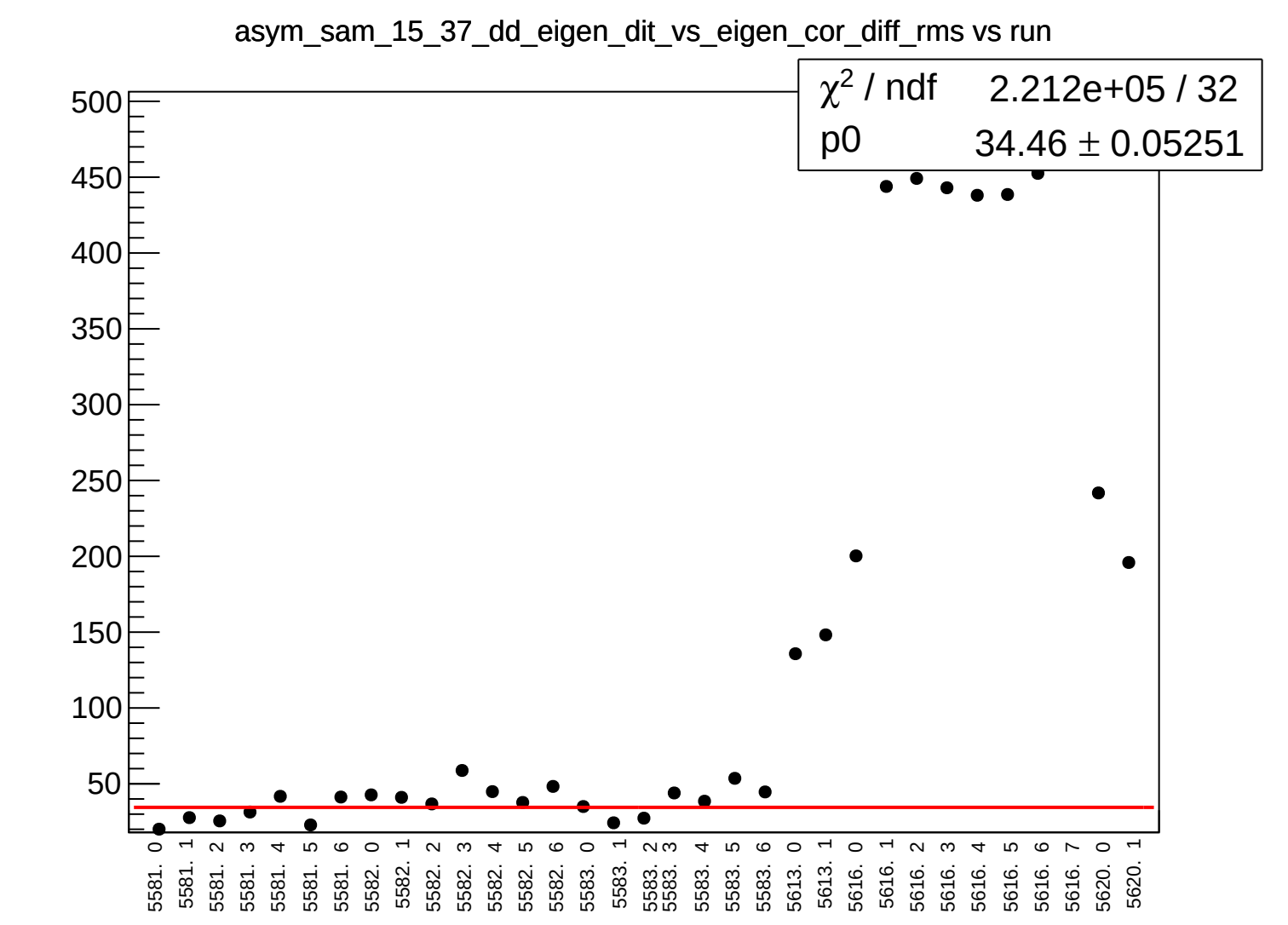

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.56 / 32
p0 −0.04603 ± 0.07426
pull
Entries 33
Mean 9.144
Std Dev 0

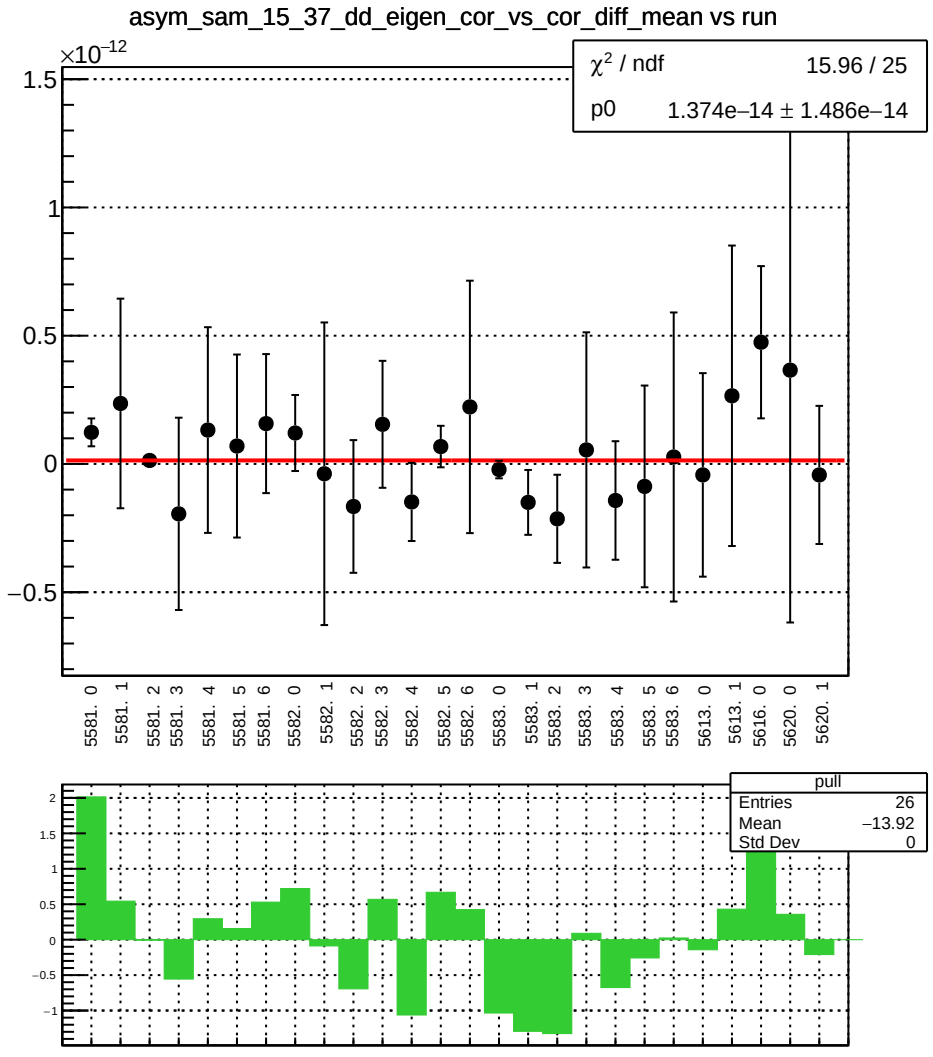

pull1D
Entries 33
Mean 0.05999
Std Dev 0.9605

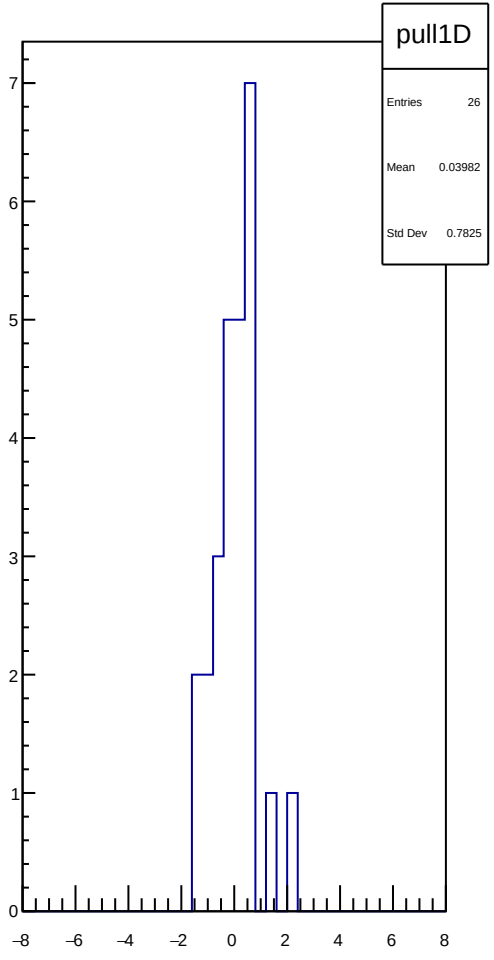

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.212e+05 / 32
p0 34.46 ± 0.05251
500
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

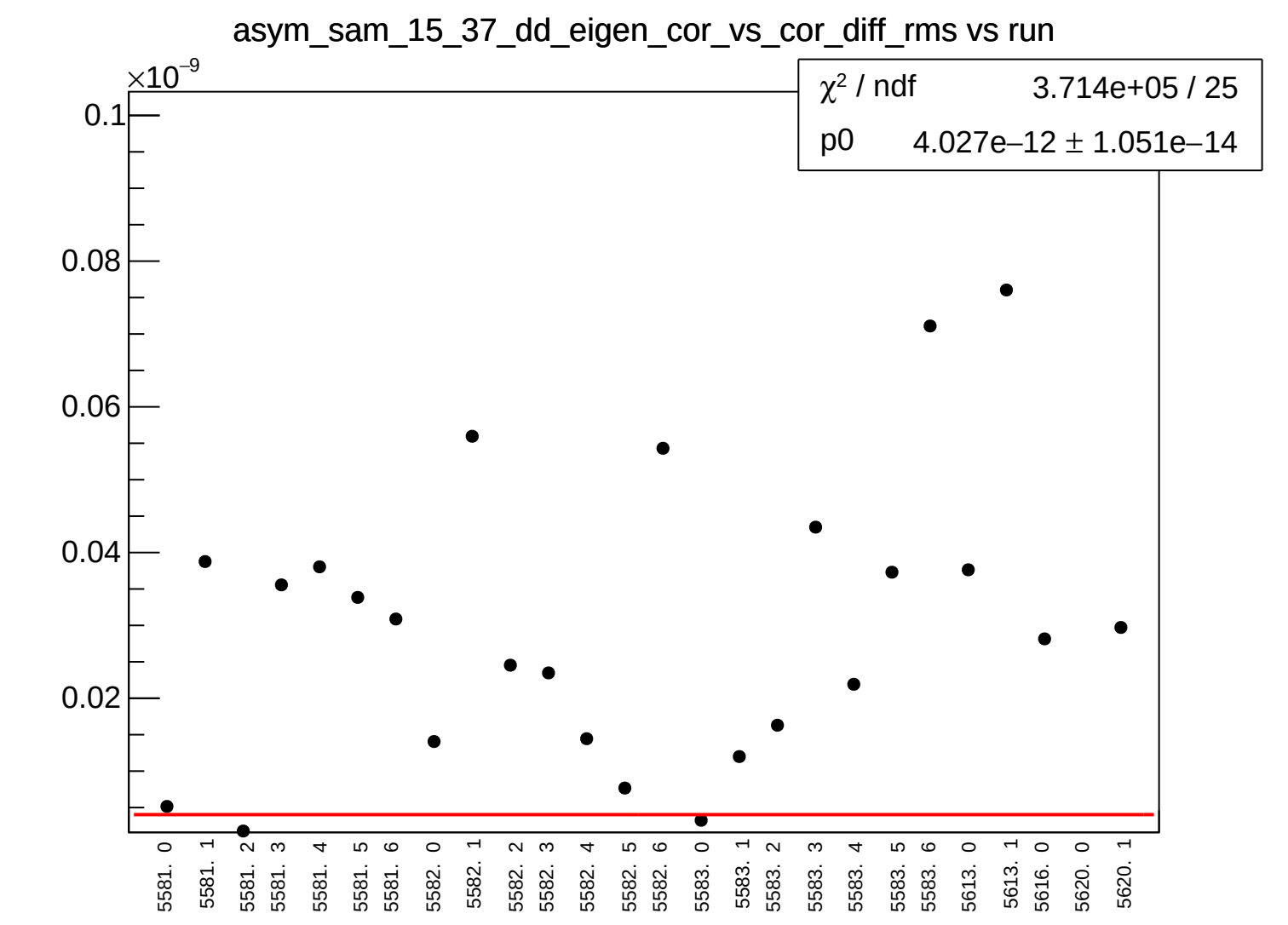

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.56 / 32
p0 −0.04603 ± 0.07426
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 9.144
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

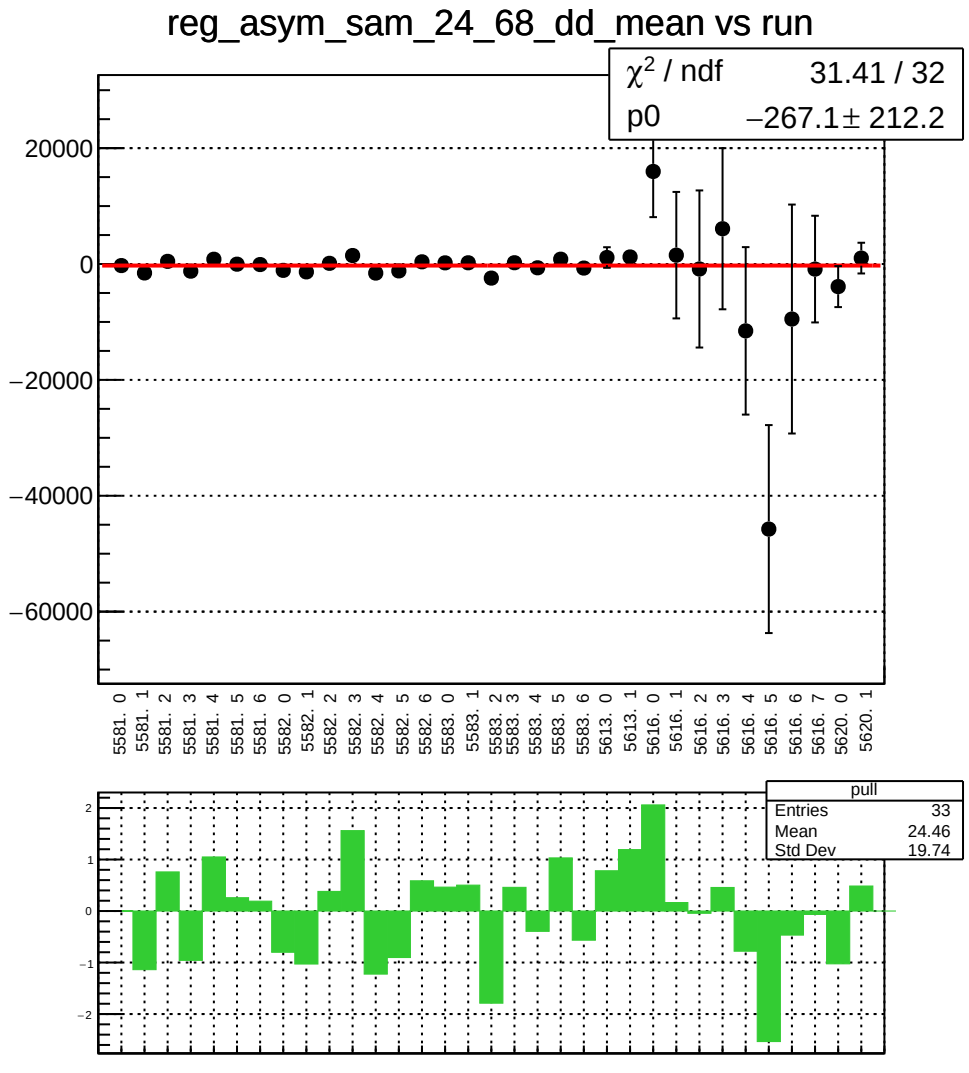

pull1D
Entries 33
Mean 0.05999
Std Dev 0.9605
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

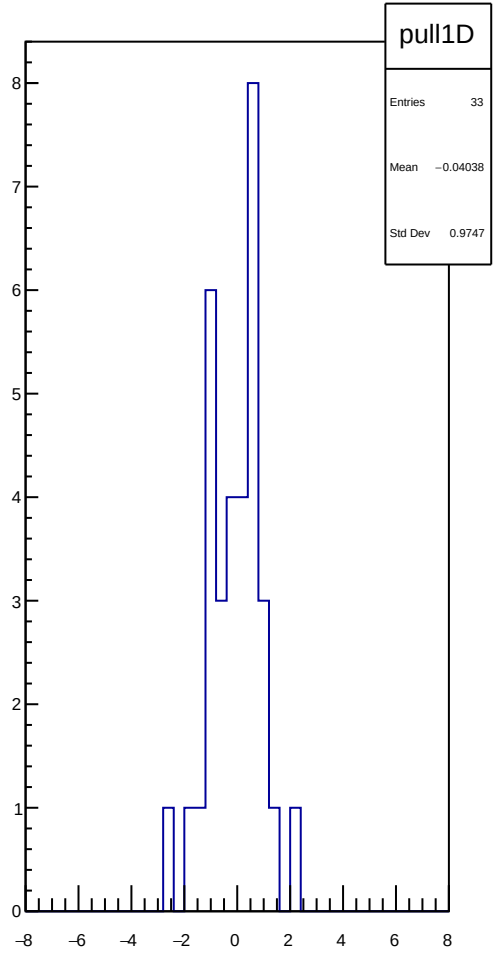

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.212e+05 / 32
p0 34.46 ± 0.05251
500
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

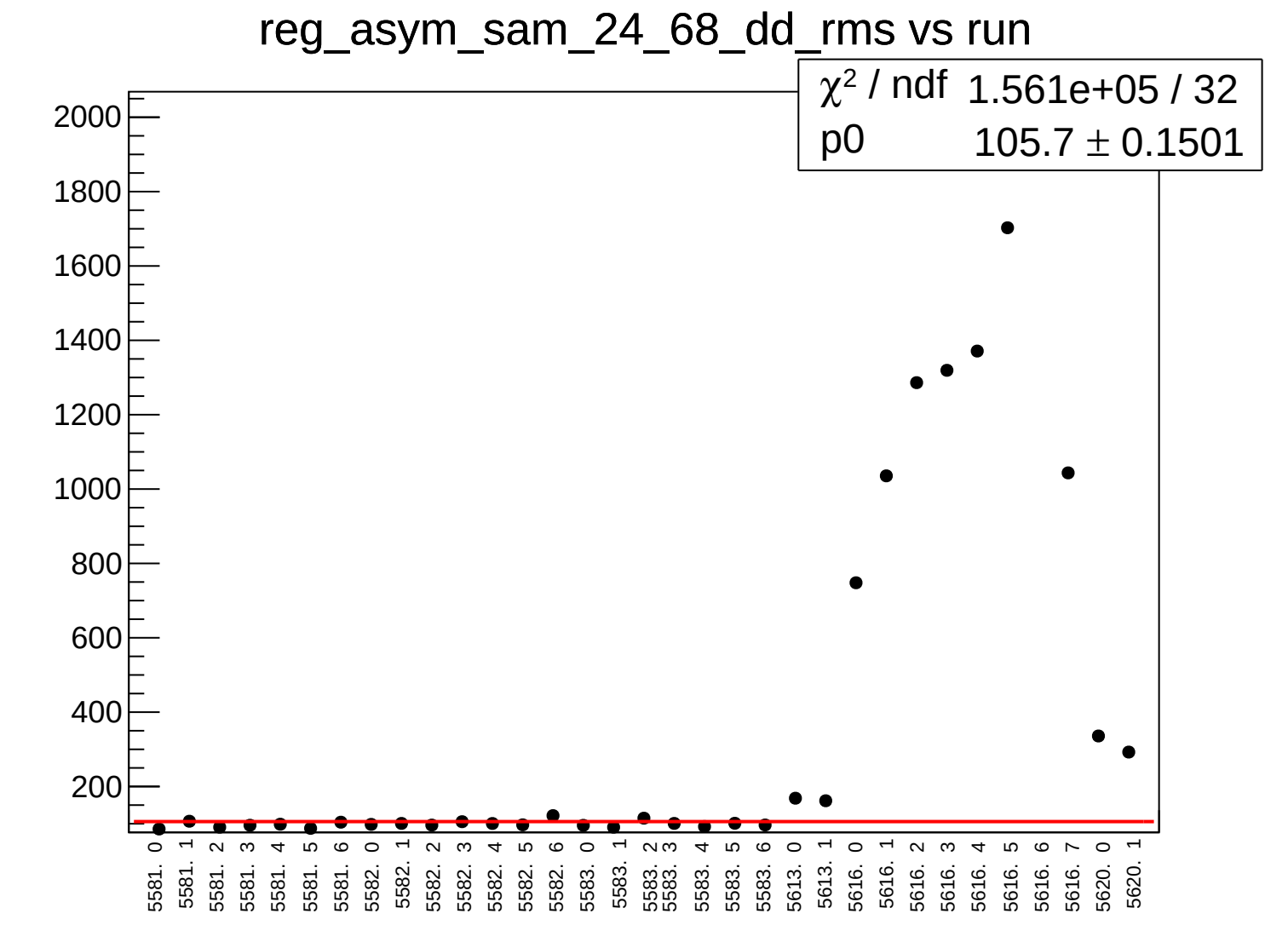

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 15.96 / 25
p0 1.374e−14 ± 1.486e−14
1.5
1
0.5
0
−0.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −13.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

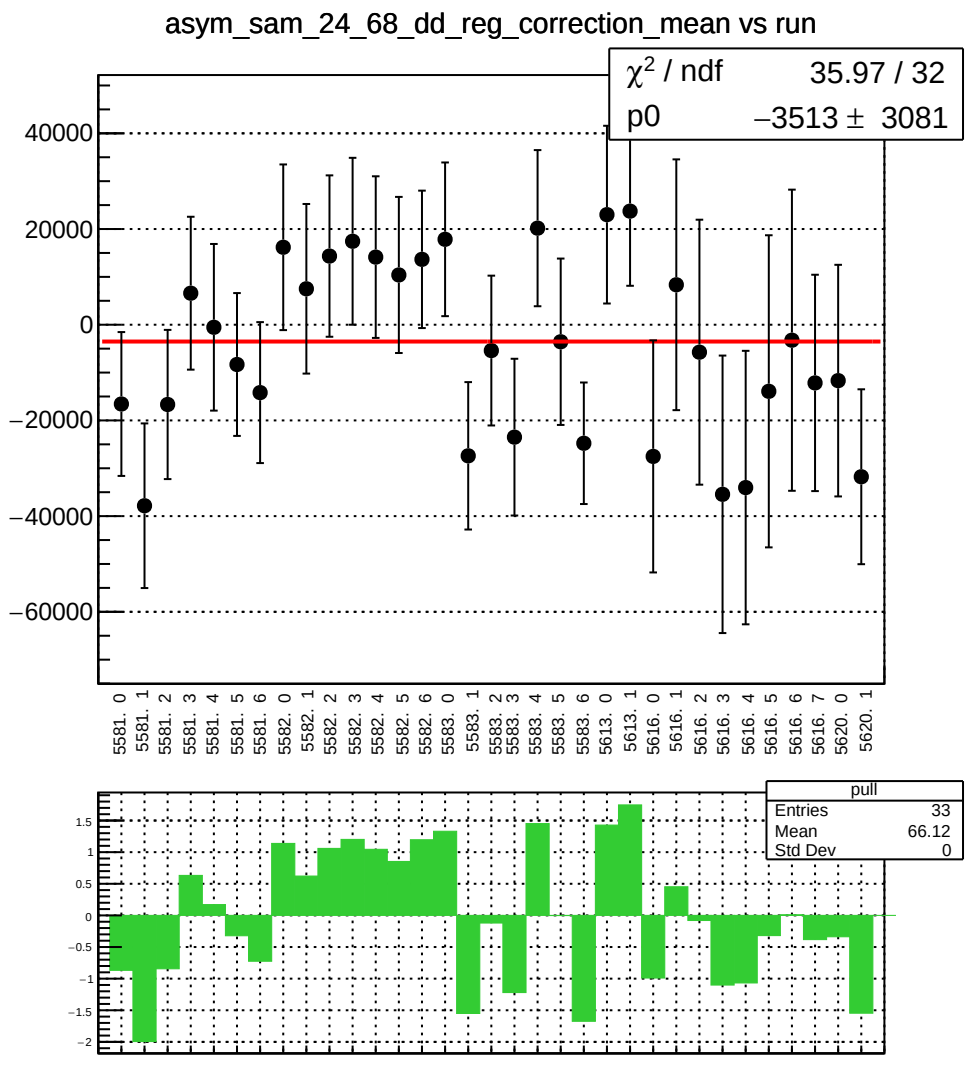

pull1D
Entries 26
Mean 0.03982
Std Dev 0.7825
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

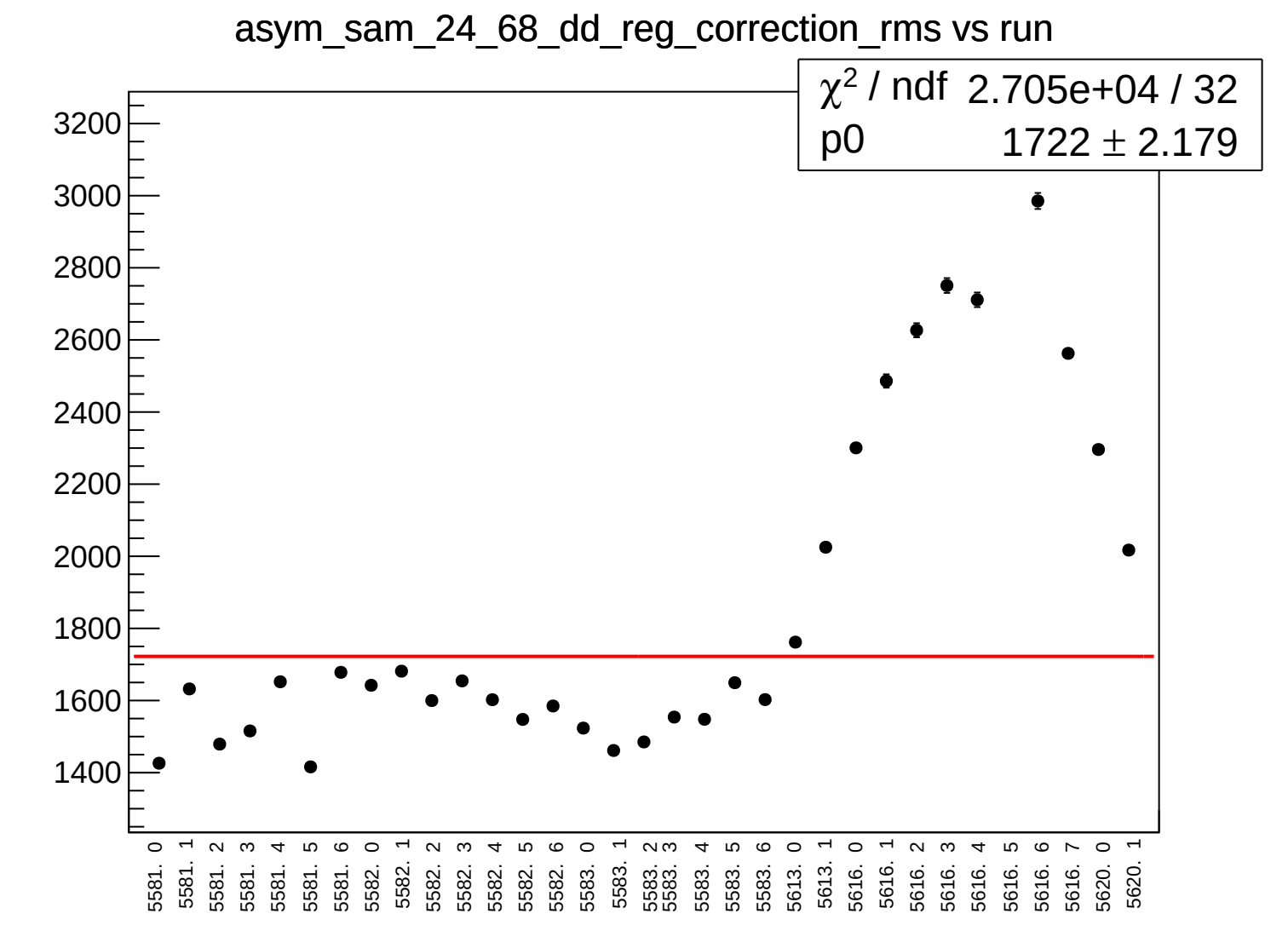

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.714e+05 / 25
p0 4.027e−12 ± 1.051e−14
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

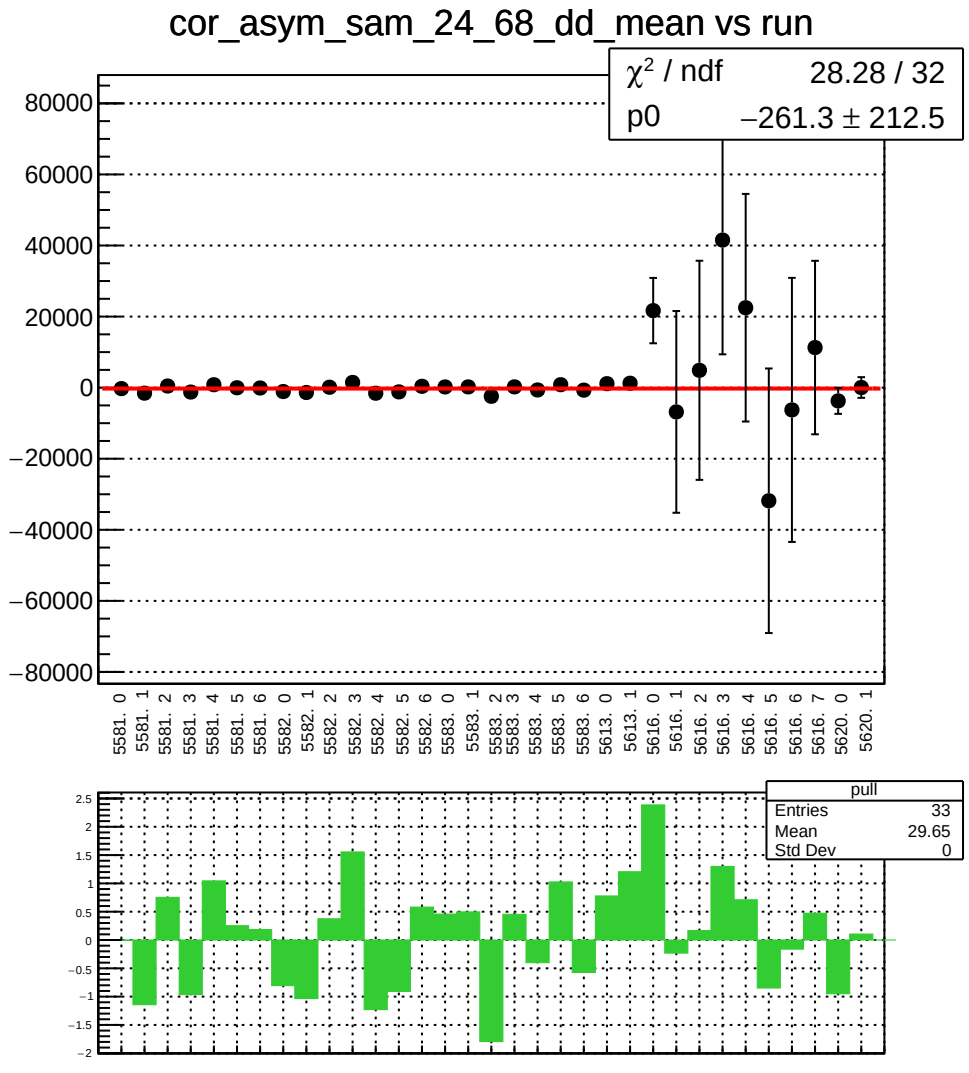

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 31.41 / 32
p0 −267.1± 212.2
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.46
Std Dev 19.74
2
1
0
−1
−2

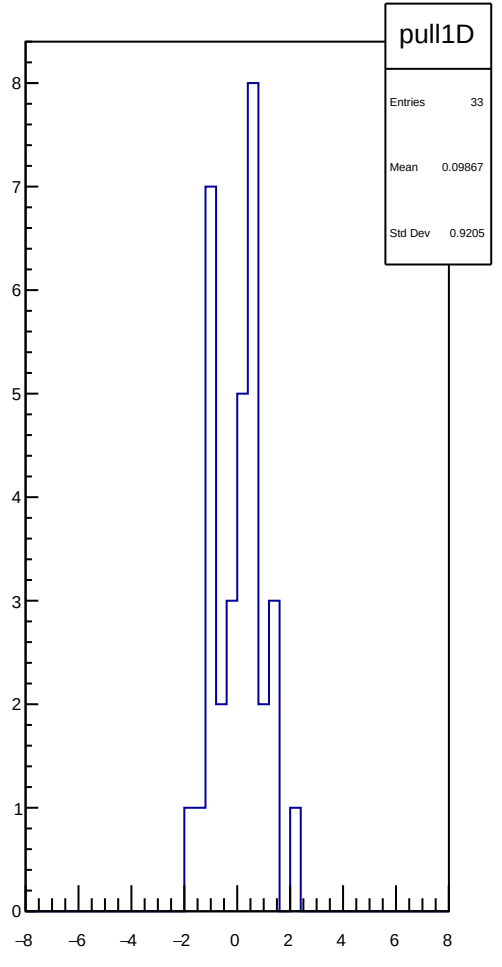

pull1D
Entries 33
Mean −0.04038
Std Dev 0.9747
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

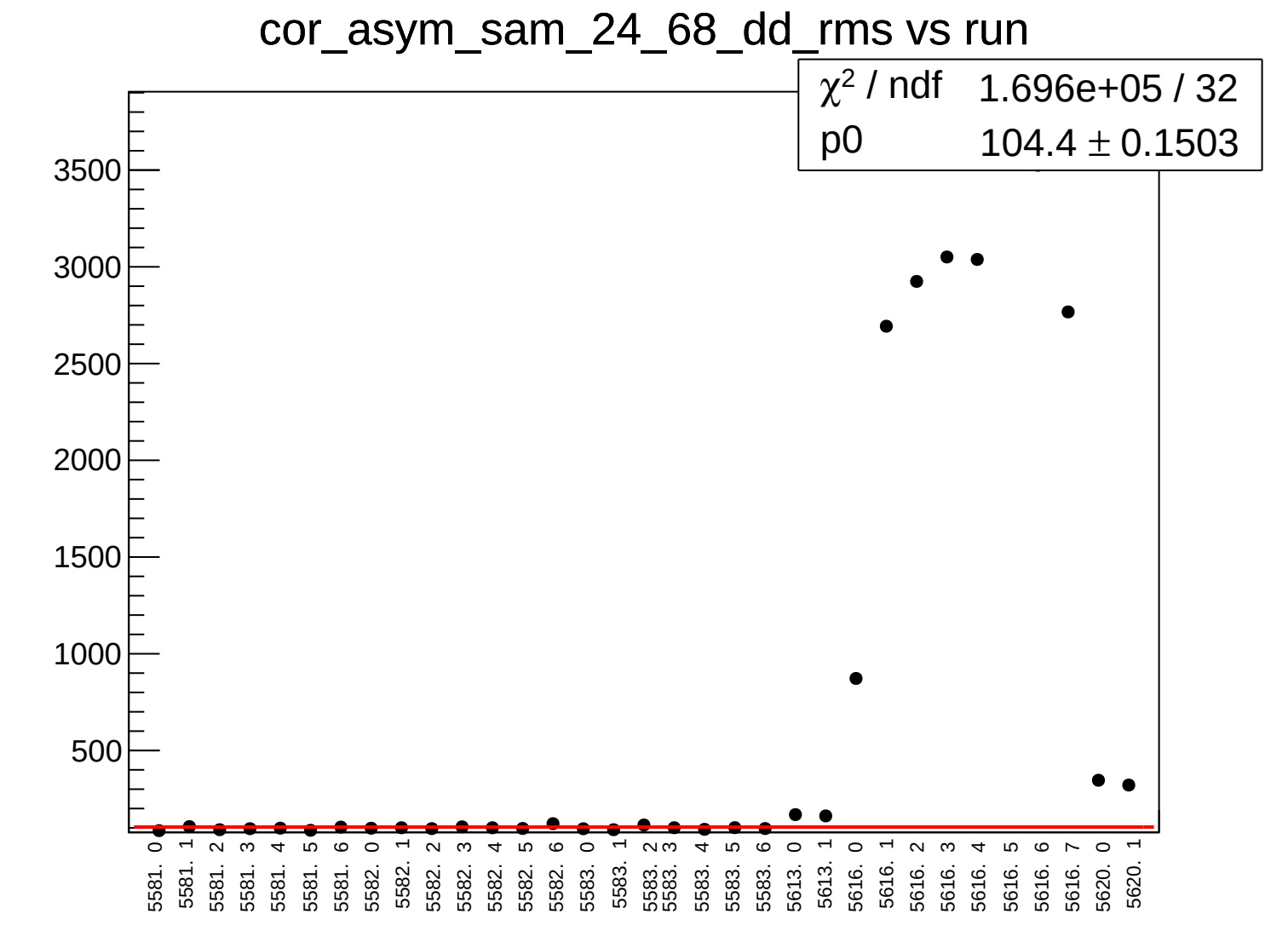

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.561e+05 / 32
p0 105.7 ± 0.1501
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

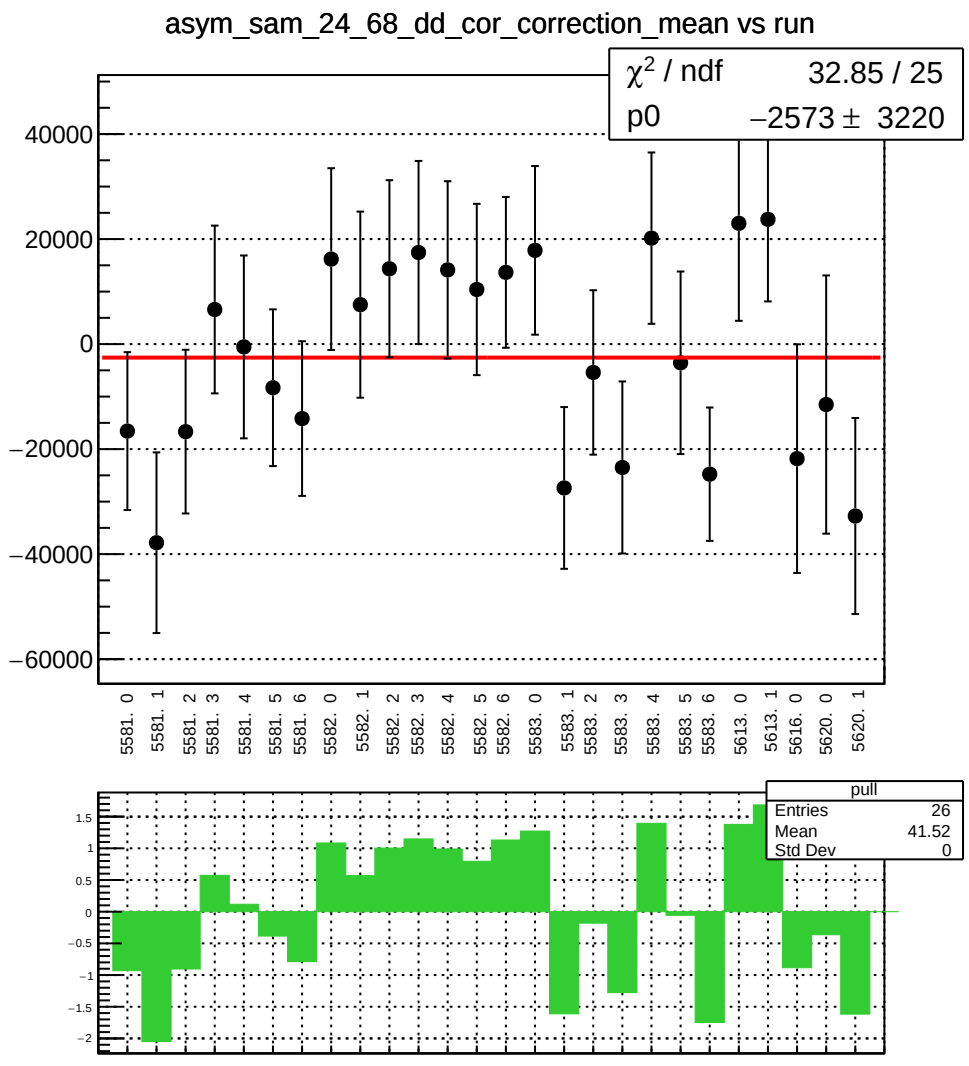

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 35.97 / 32
p0 −3513 ± 3081
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 66.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02449
Std Dev 1.044
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

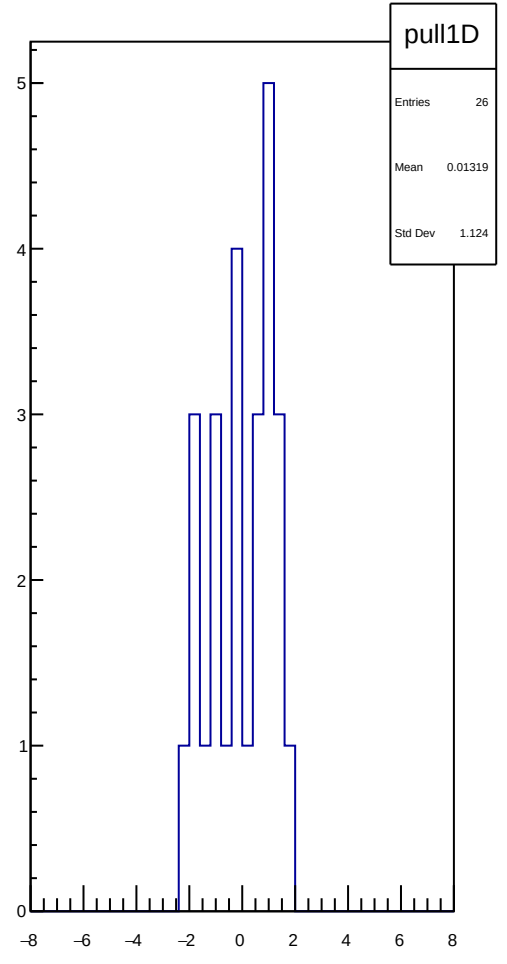

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 2.705e+04 / 32
p0 1722 ± 2.179
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

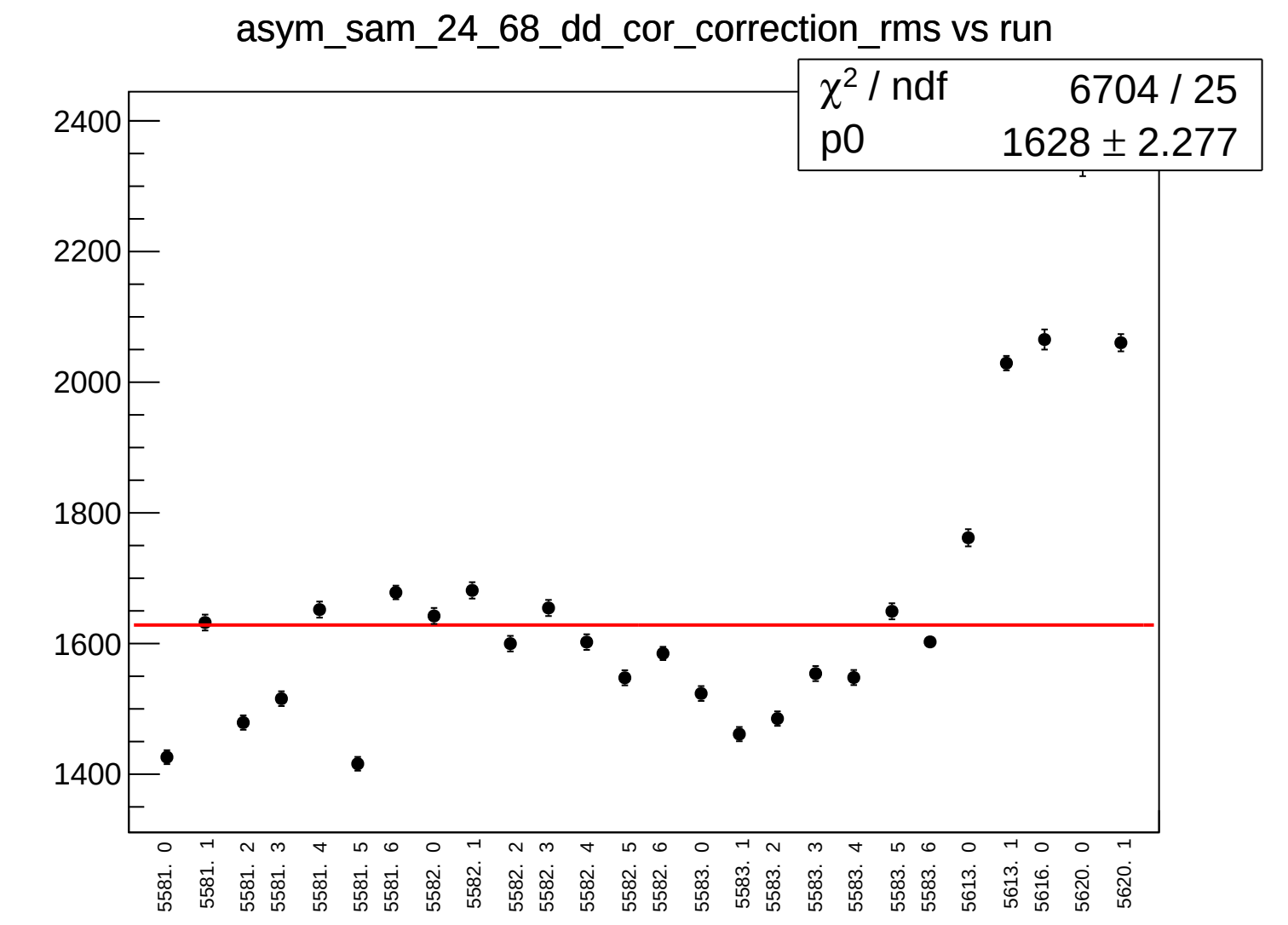

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 28.28 / 32
p0 −261.3 ± 212.5
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.65
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

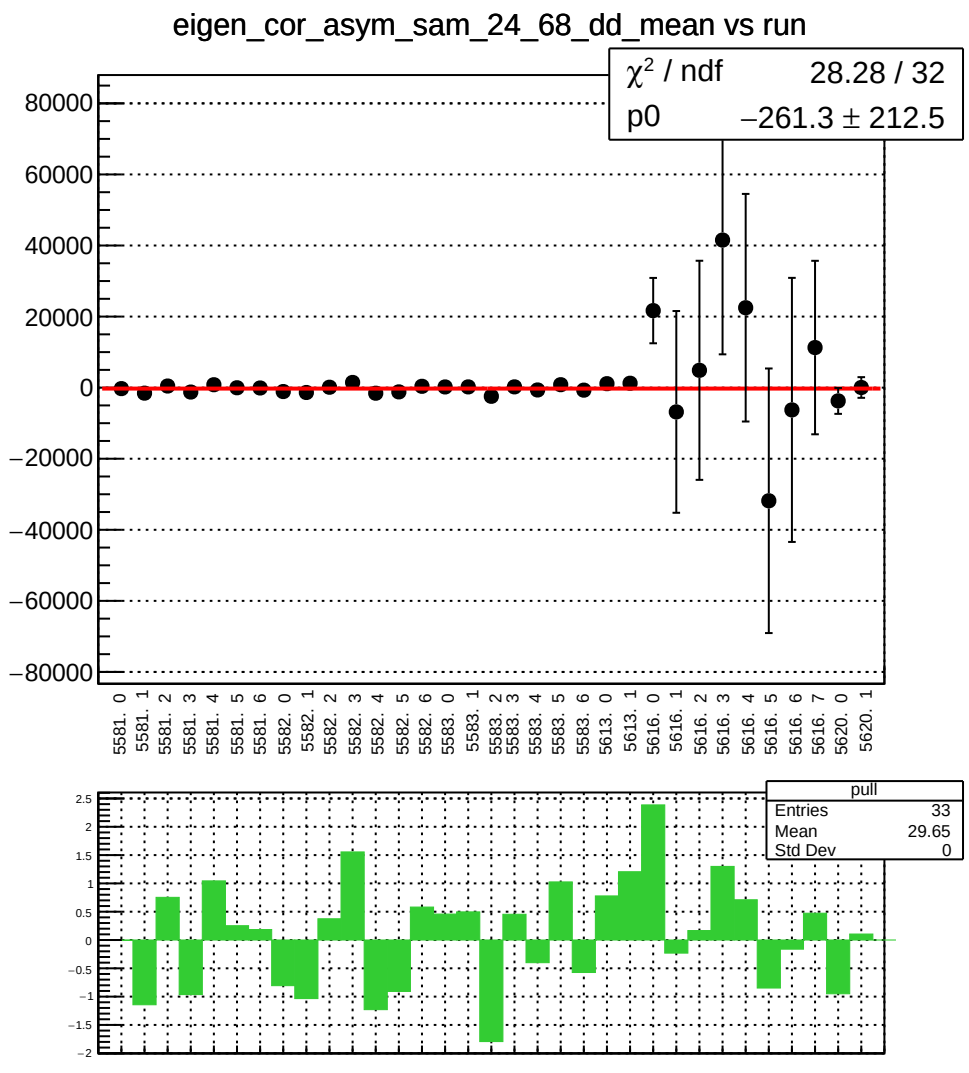

pull1D
Entries 33
Mean 0.09867
Std Dev 0.9205
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

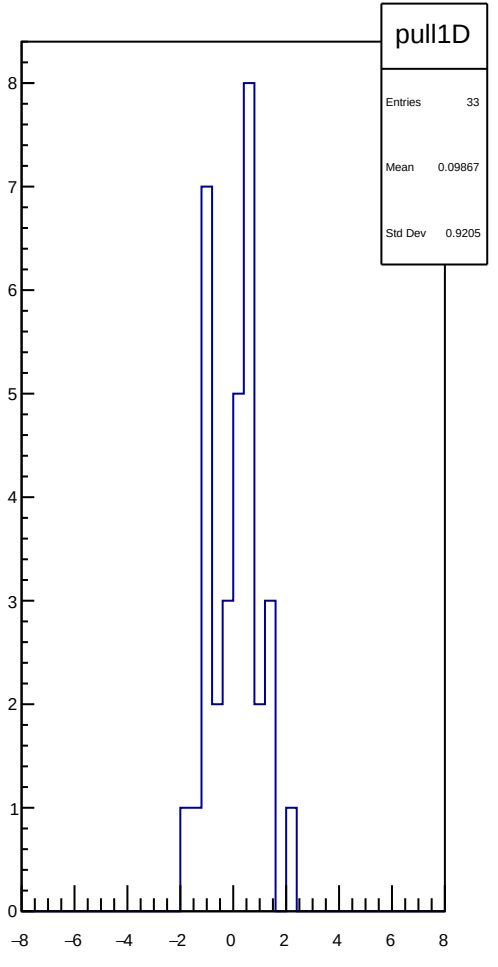

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.696e+05 / 32
p0 104.4 ± 0.1503
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

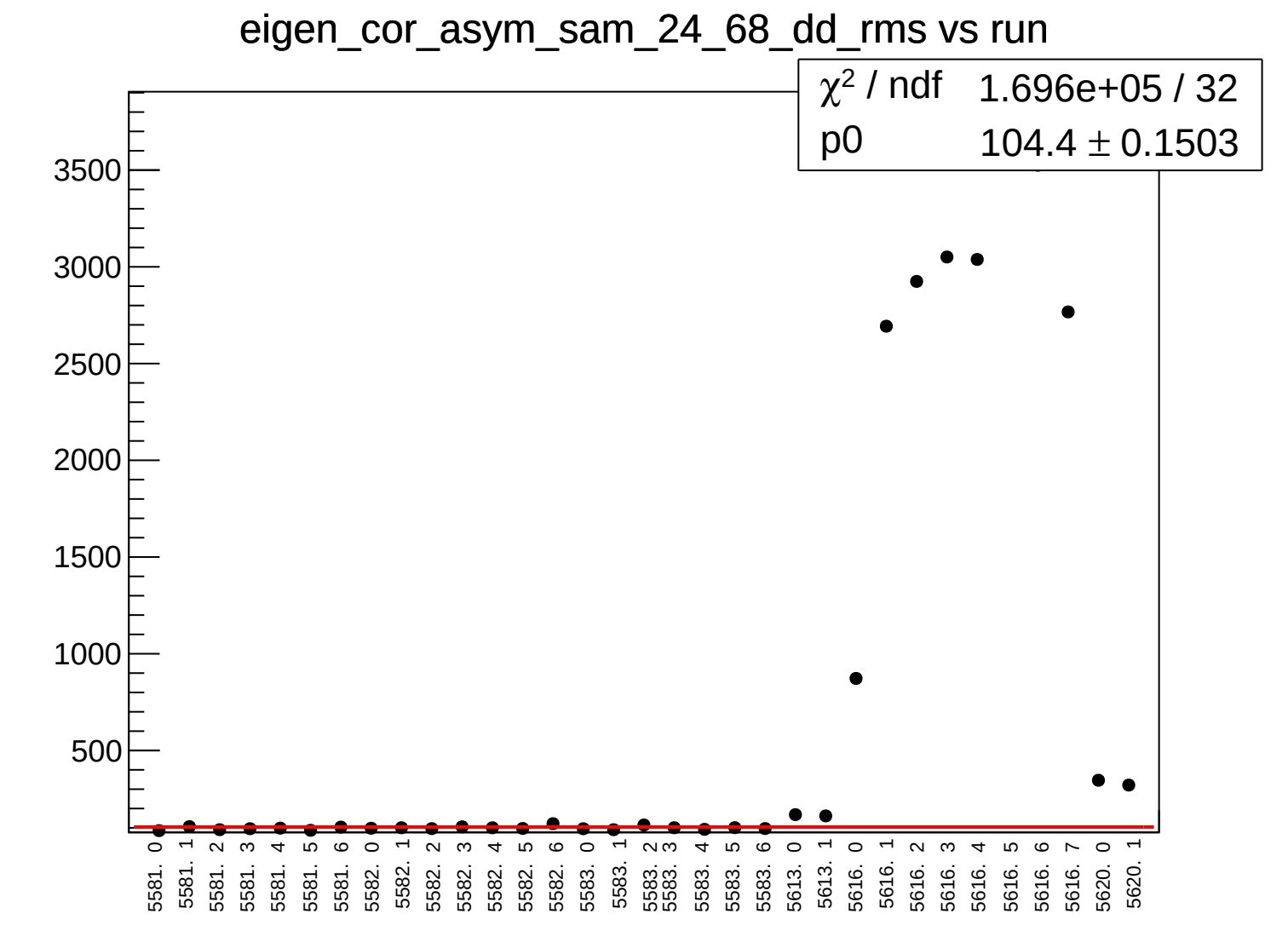

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 32.85 / 25
p0 −2573 ± 3220
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 41.52
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

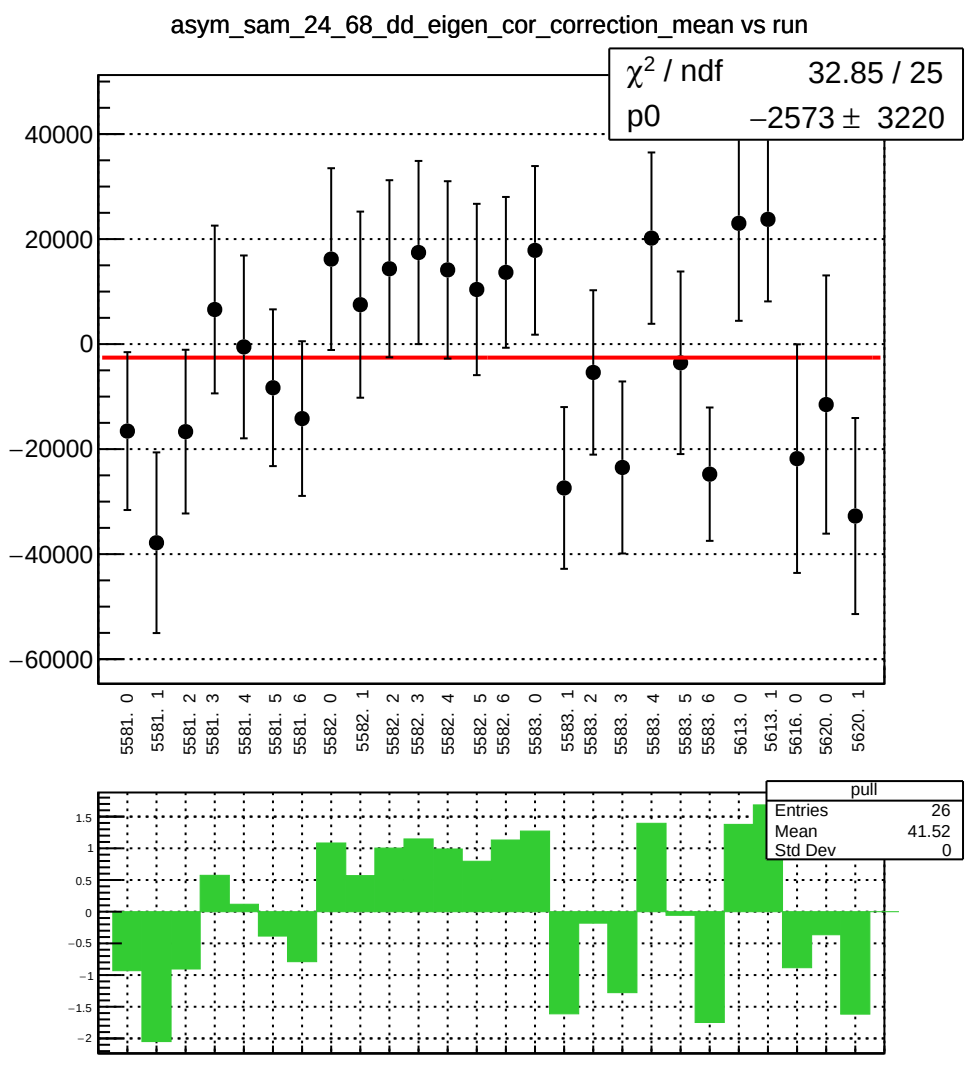

pull1D
Entries 26
Mean 0.01319
Std Dev 1.124
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

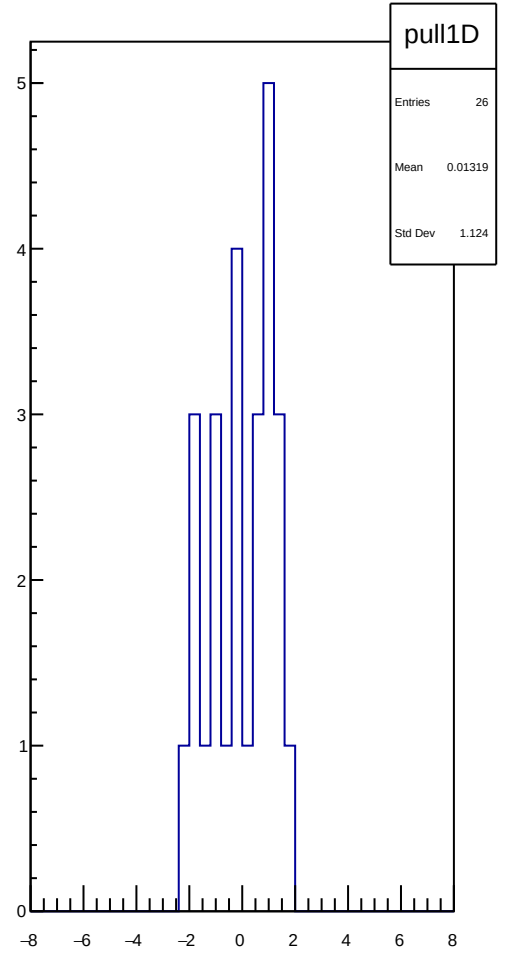

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 6704 / 25
p0 1628 ± 2.277
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

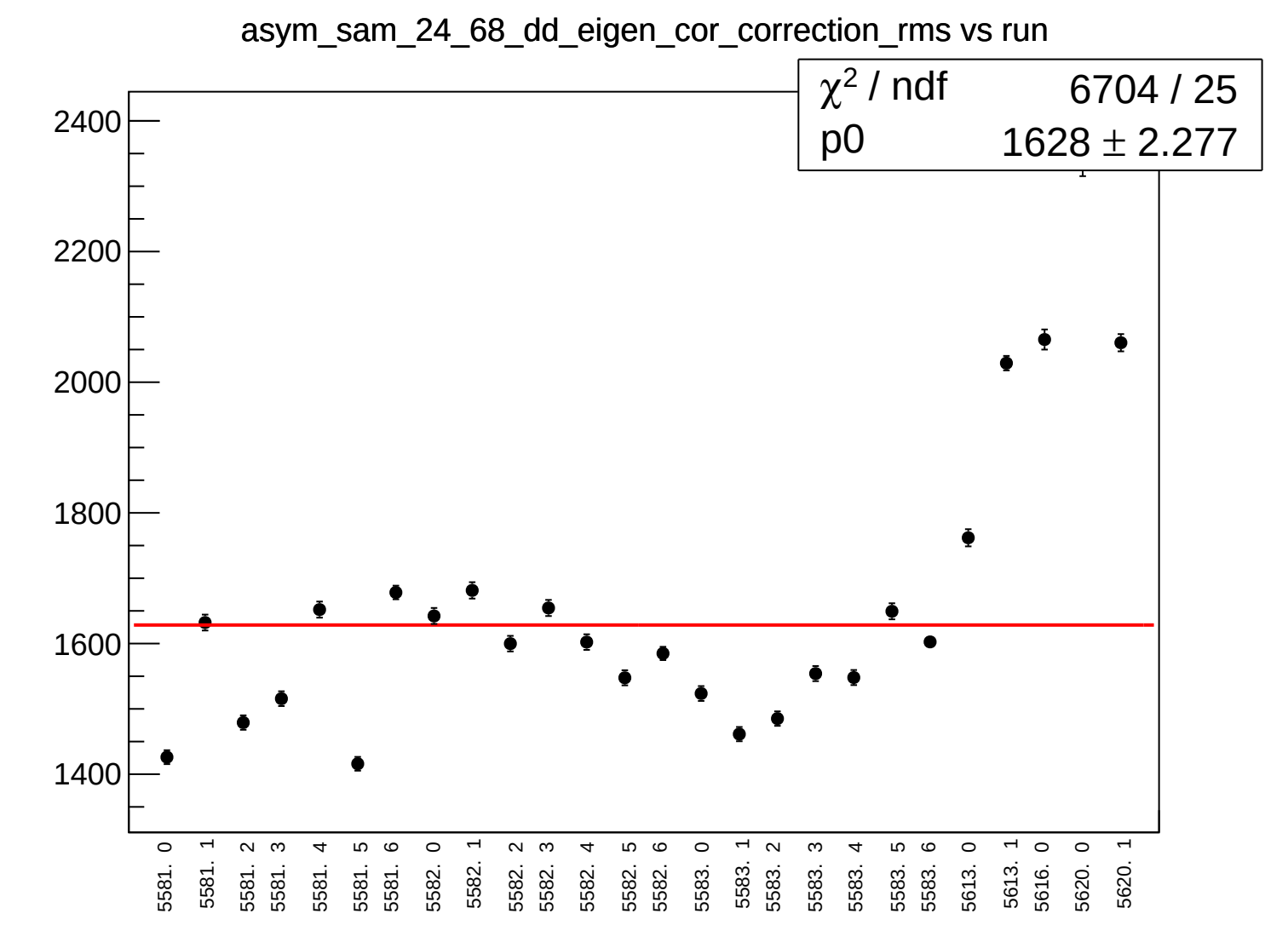

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 28.28 / 32
p0 −261.3 ± 212.5
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.65
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

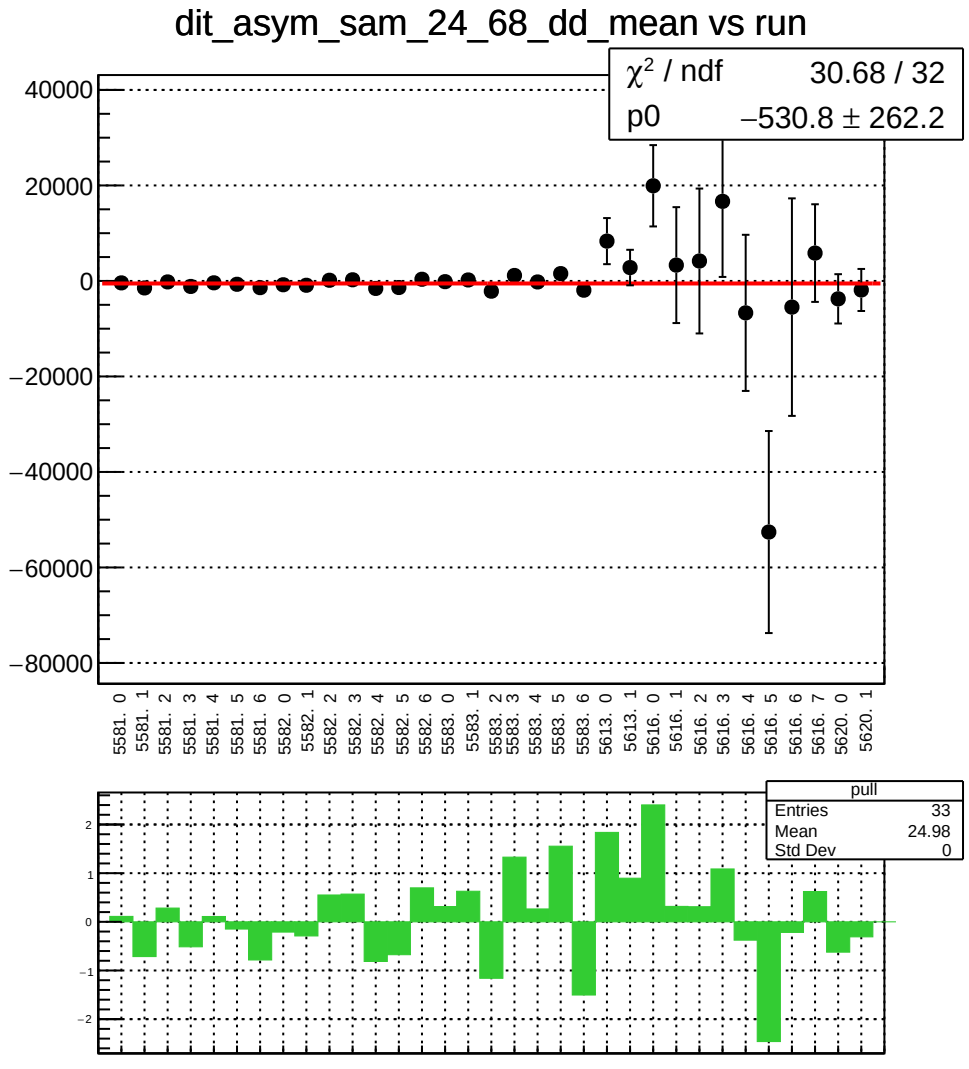

pull1D
Entries 33
Mean 0.09867
Std Dev 0.9205
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

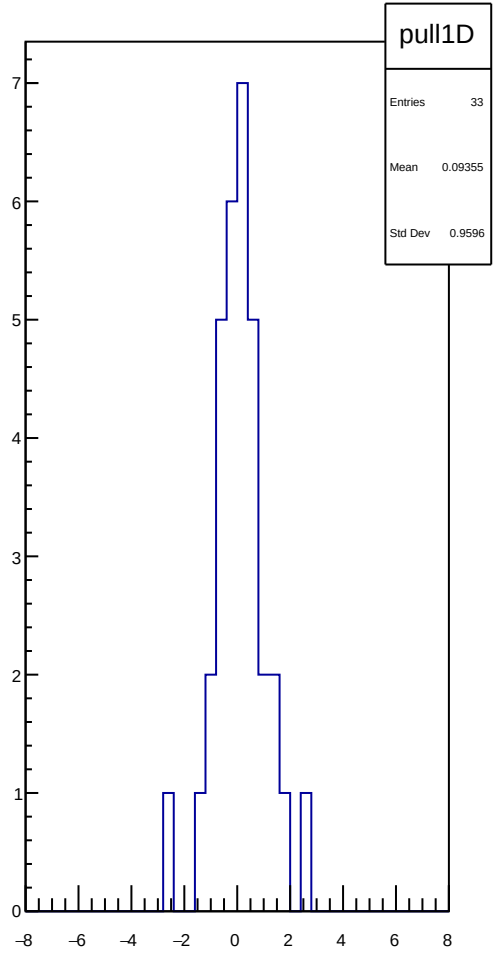

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.696e+05 / 32
p0 104.4 ± 0.1503
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

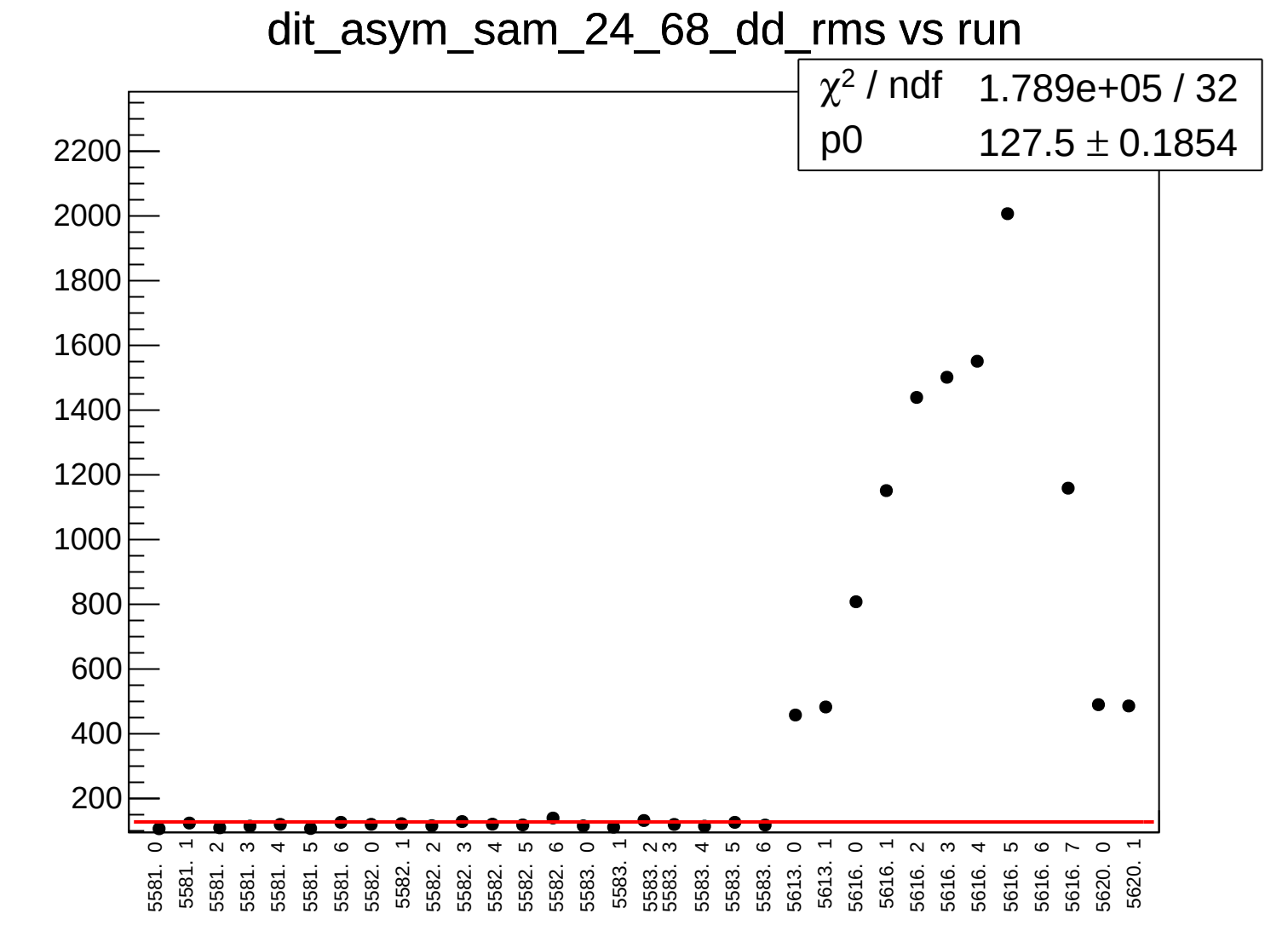

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 32.85 / 25
p0 −2573 ± 3220
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 41.52
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

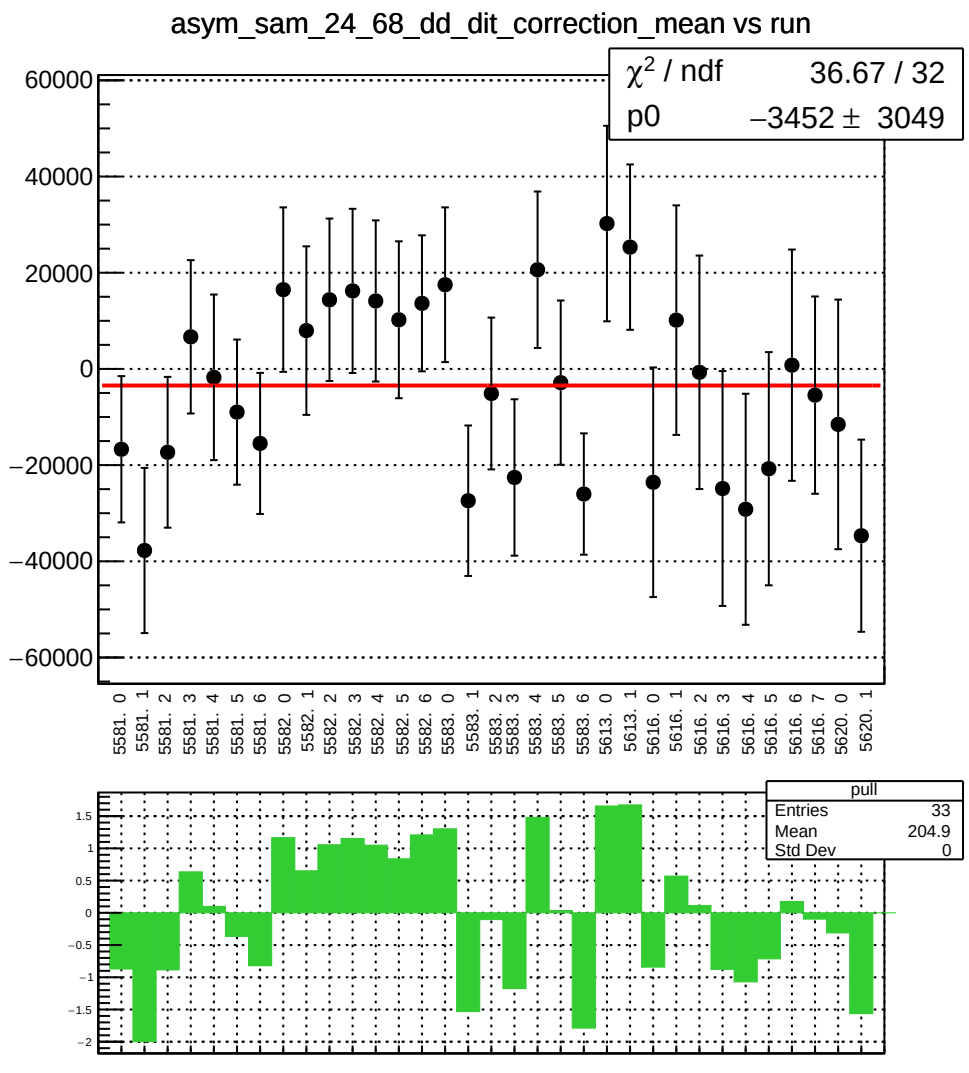

pull1D
Entries 26
Mean 0.01319
Std Dev 1.124
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

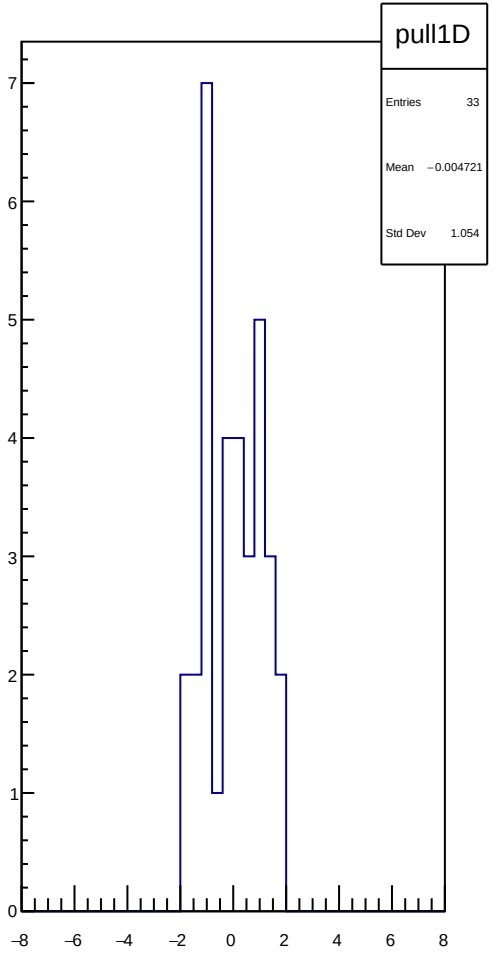

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 6704 / 25
p0 1628 ± 2.277
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

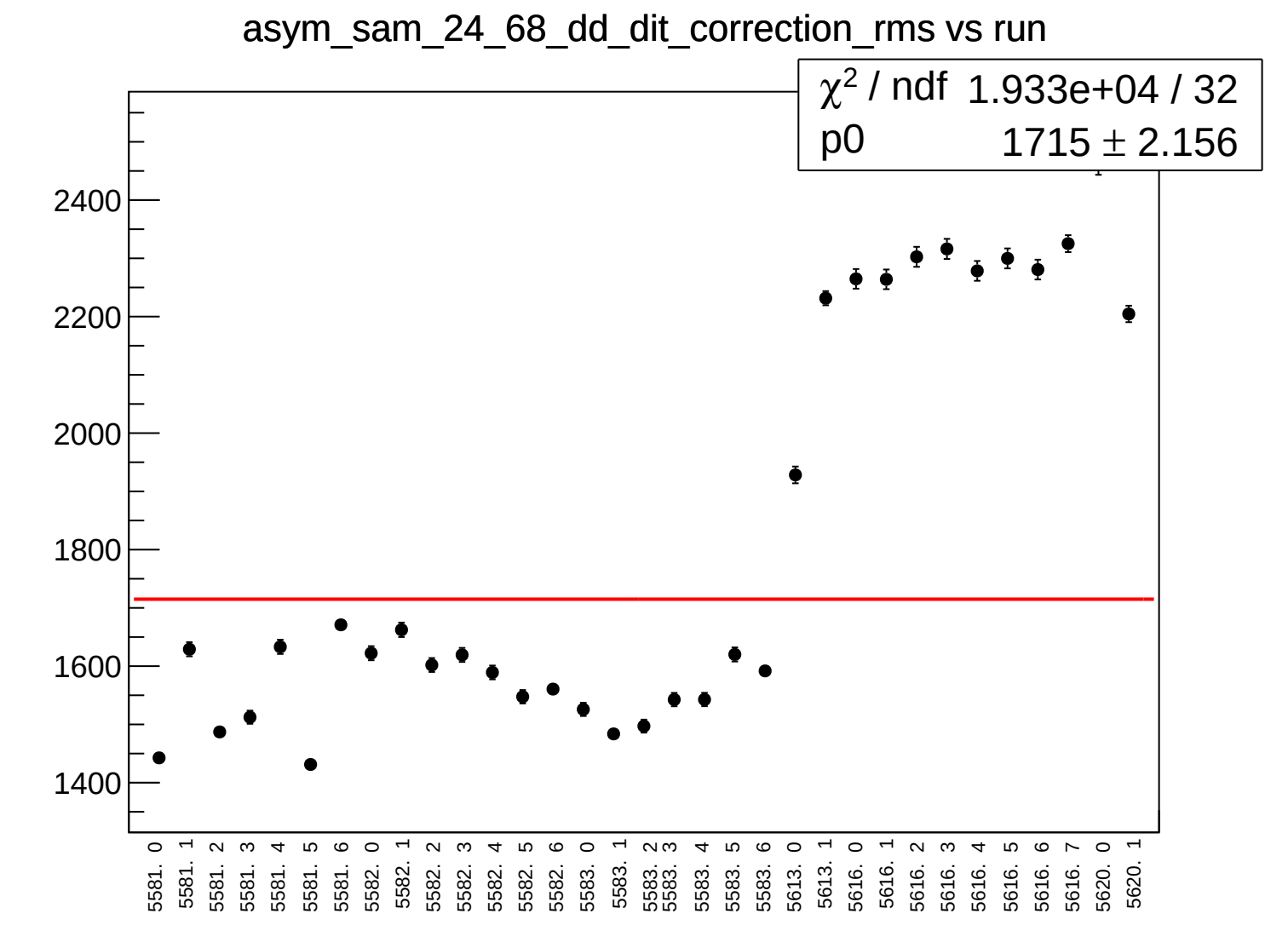

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 30.68 / 32
p0 −530.8 ± 262.2
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.98
Std Dev 0
2
1
0
−1
−2

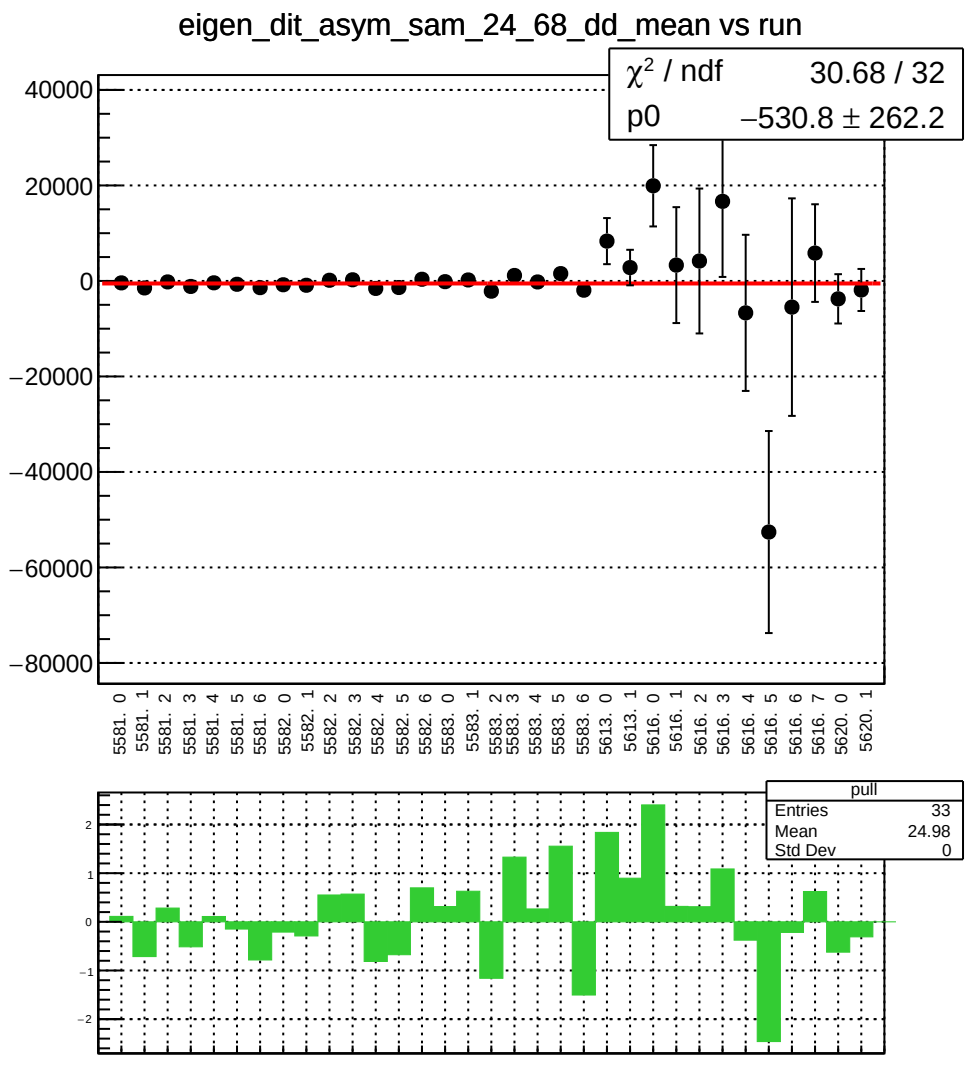

pull1D
Entries 33
Mean 0.09355
Std Dev 0.9596
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

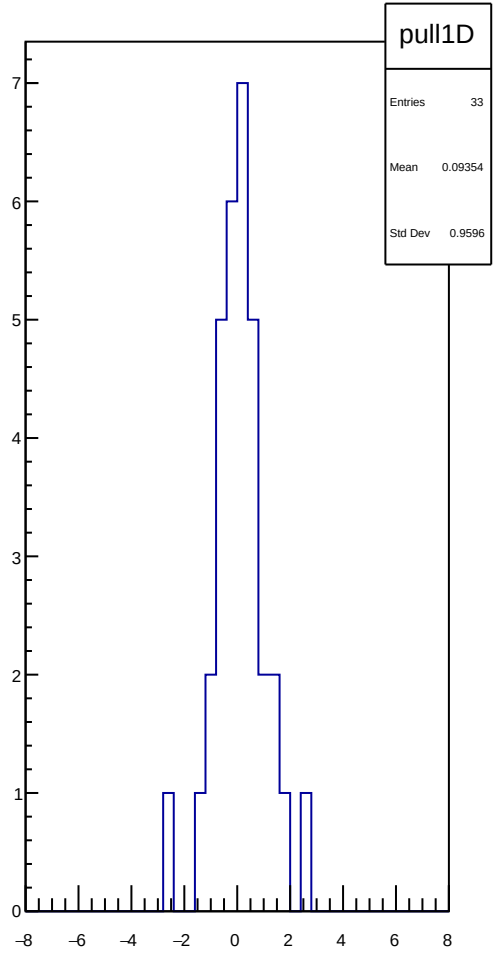

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.789e+05 / 32
p0 127.5 ± 0.1854
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

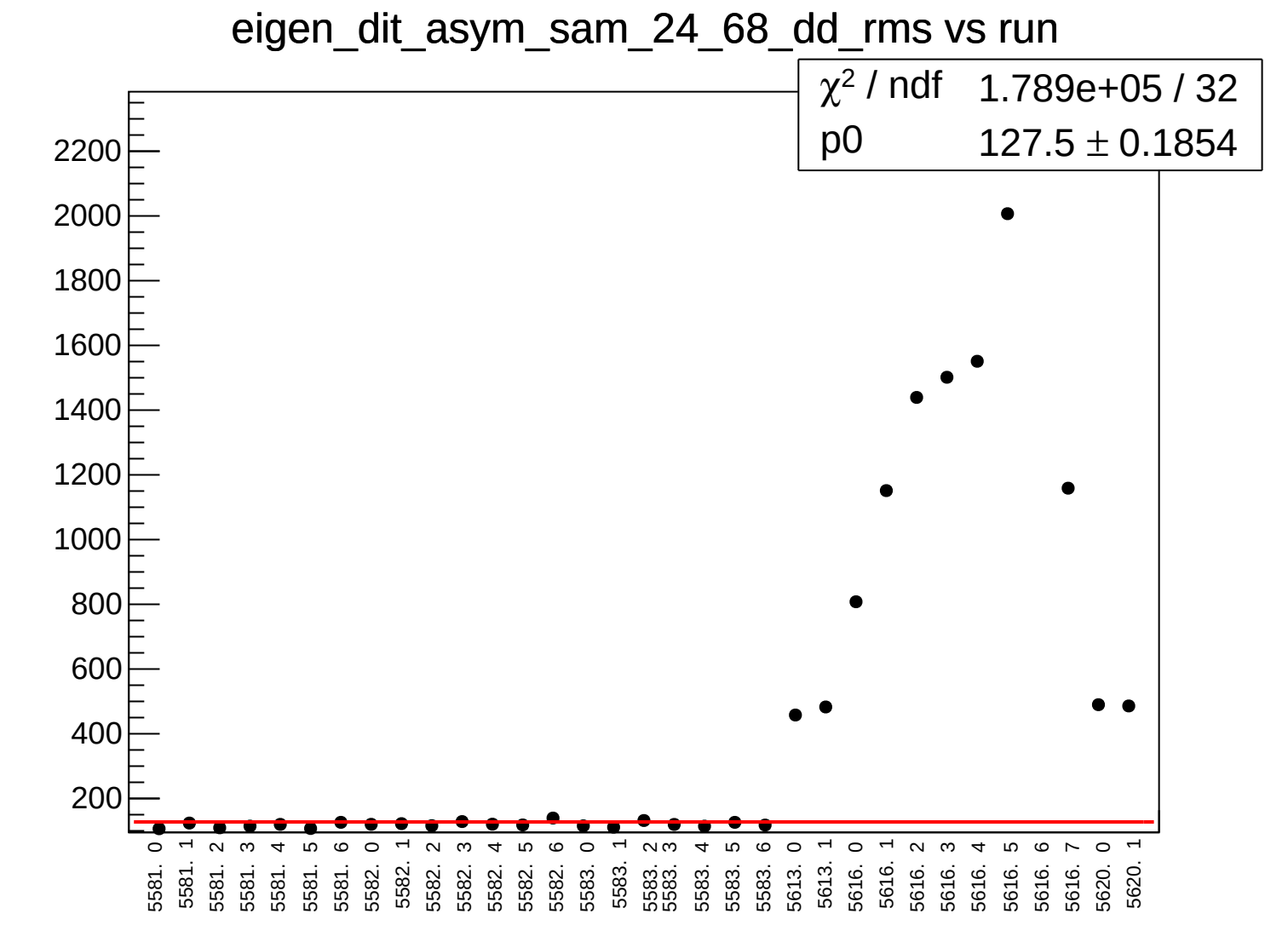

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 36.67 / 32
p0 −3452 ± 3049
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 204.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

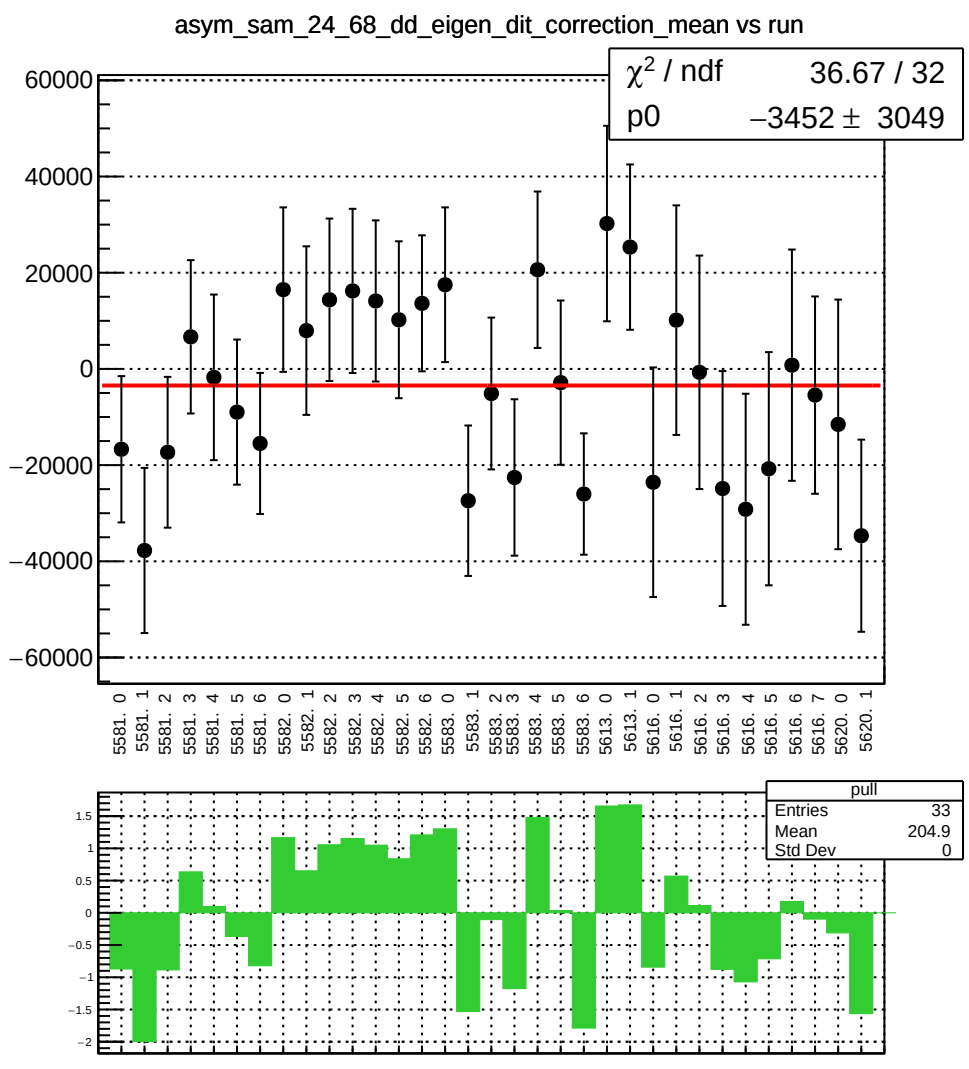

pull1D
Entries 33
Mean −0.004721
Std Dev 1.054
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

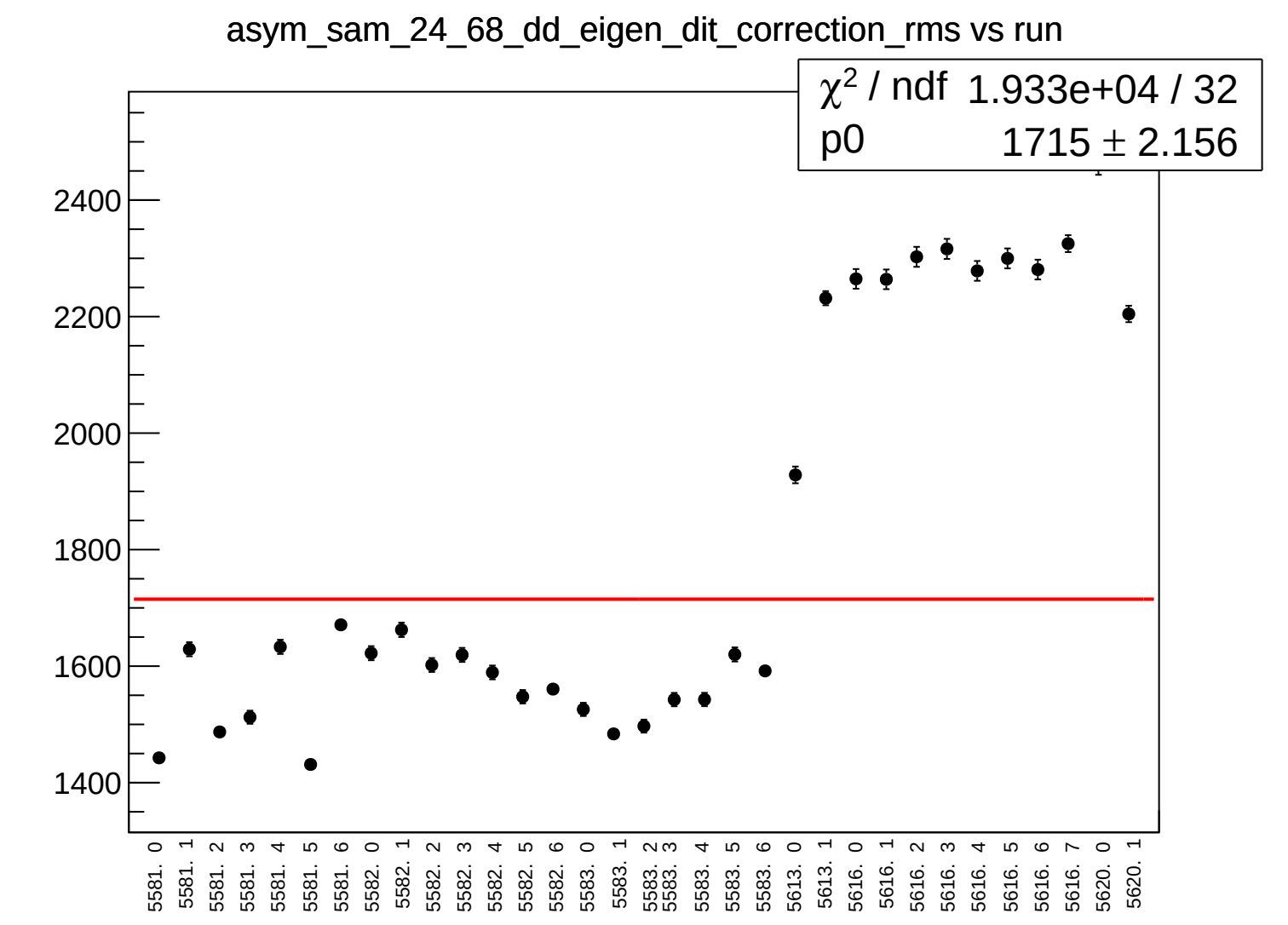

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1.933e+04 / 32
p0 1715 ± 2.156
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

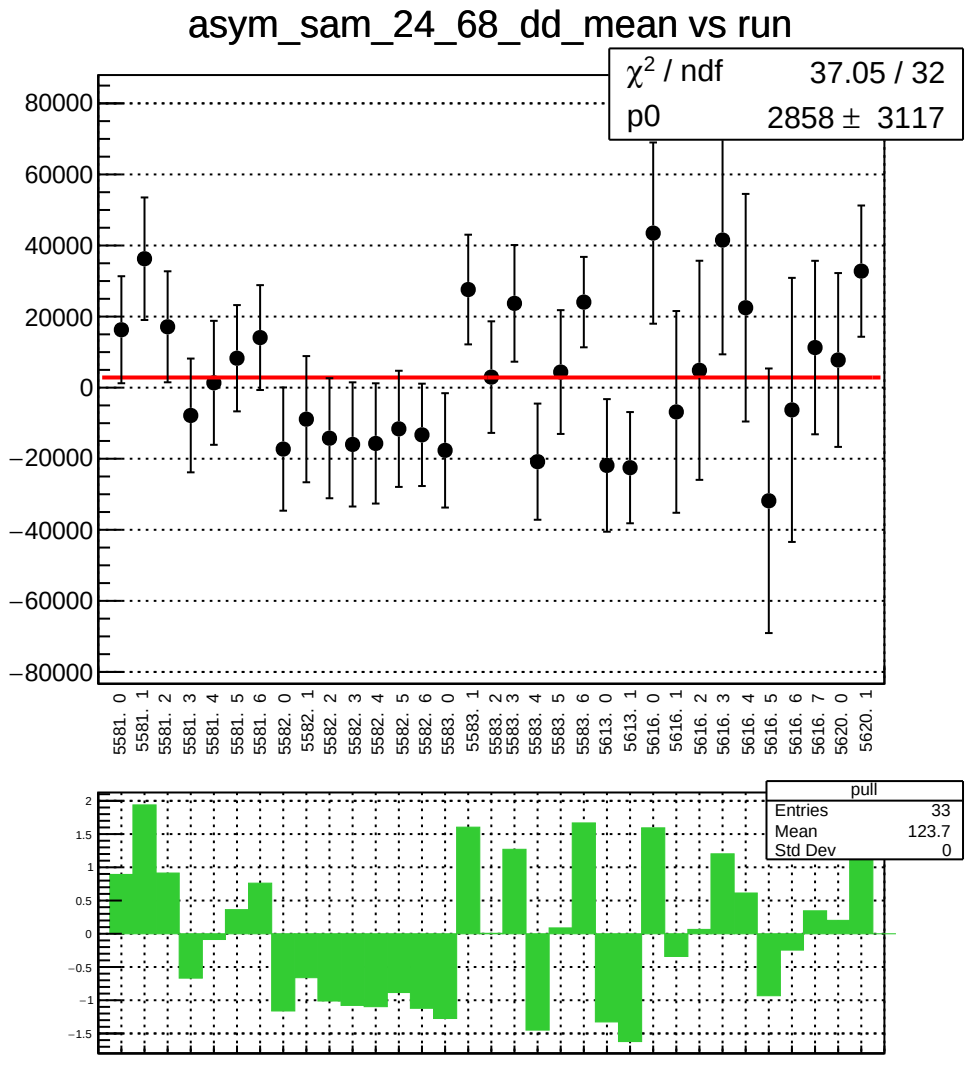

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 30.68 / 32
p0 −530.8 ± 262.2
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.98
Std Dev 0
2
1
0
−1
−2

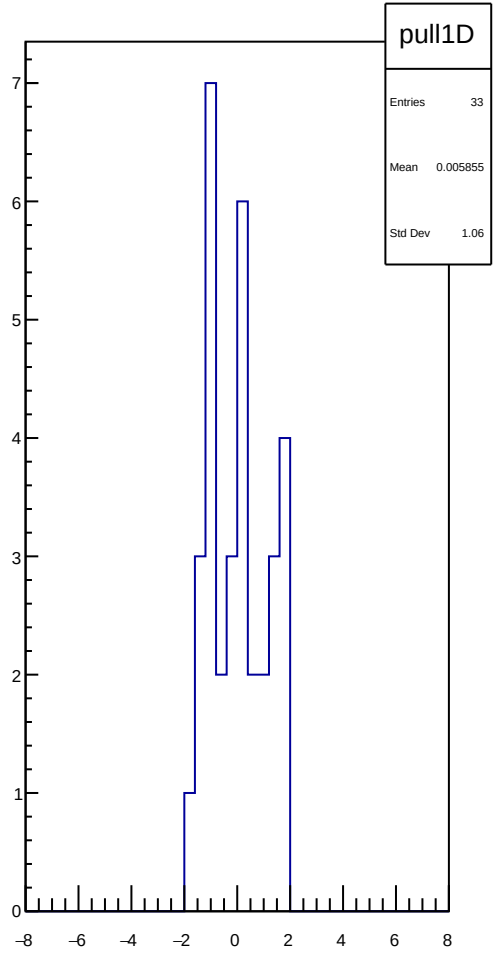

pull1D
Entries 33
Mean 0.09354
Std Dev 0.9596
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

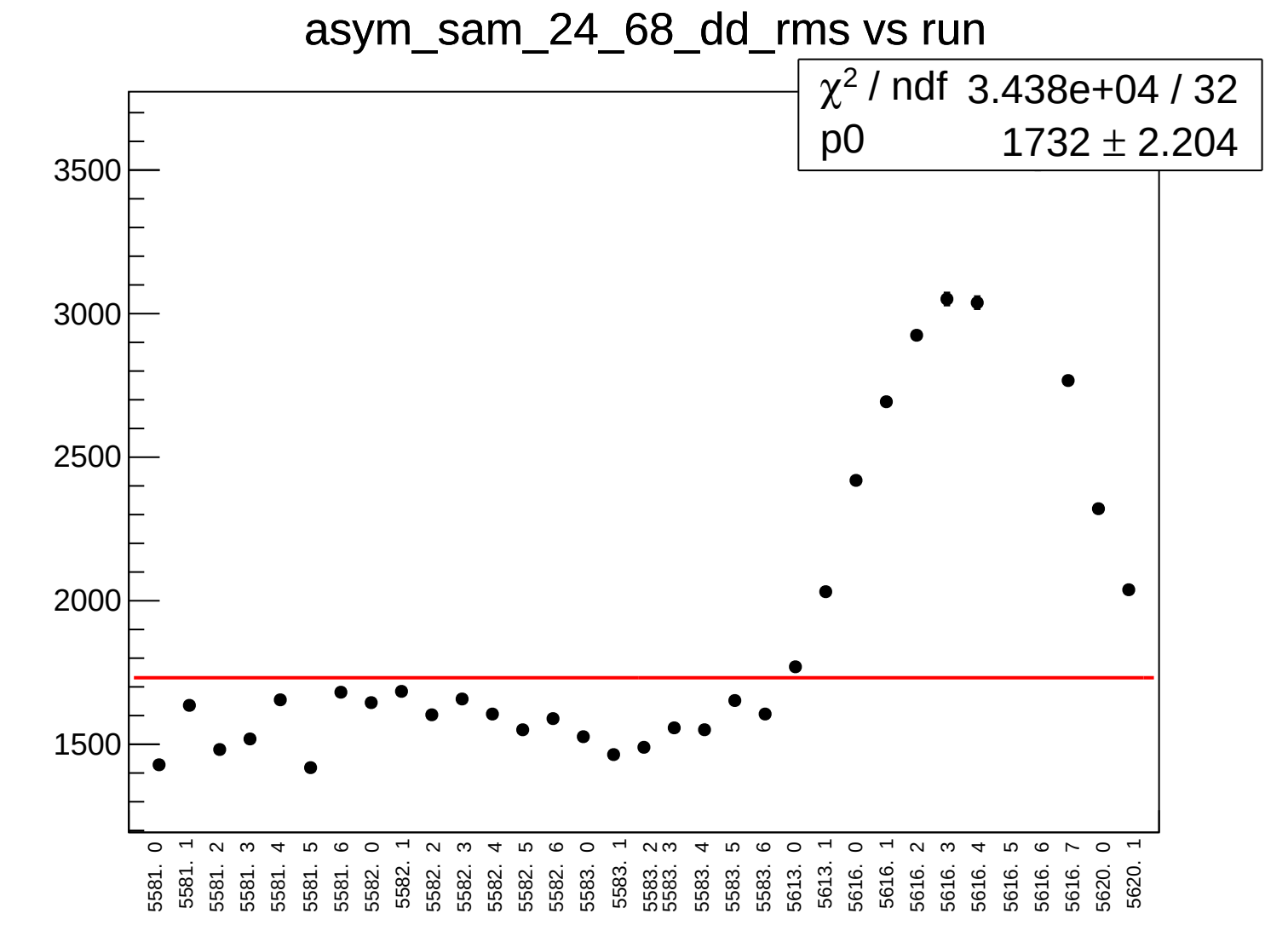

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.789e+05 / 32
p0 127.5 ± 0.1854
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

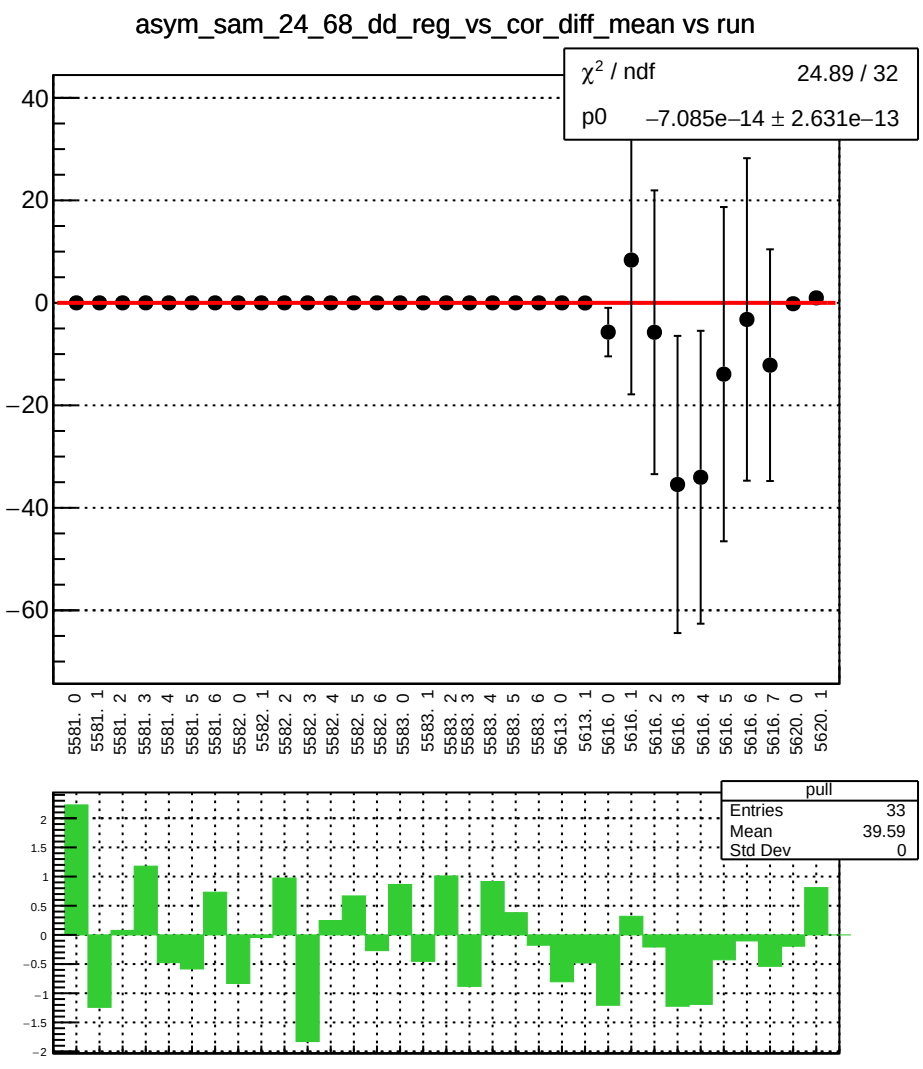

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 36.67 / 32
p0 −3452 ± 3049
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 204.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.004721
Std Dev 1.054
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

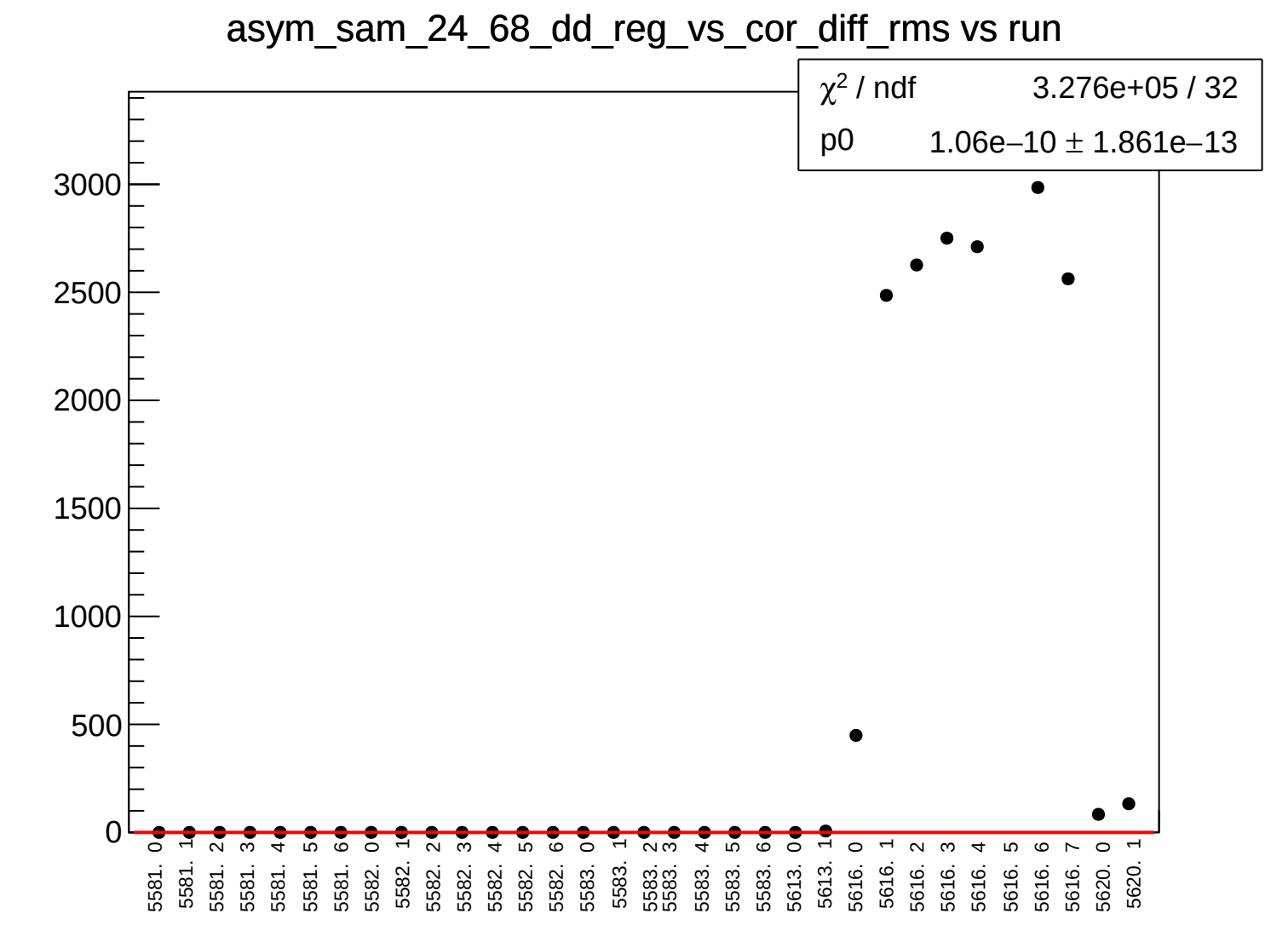

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.933e+04 / 32
p0 1715 ± 2.156
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

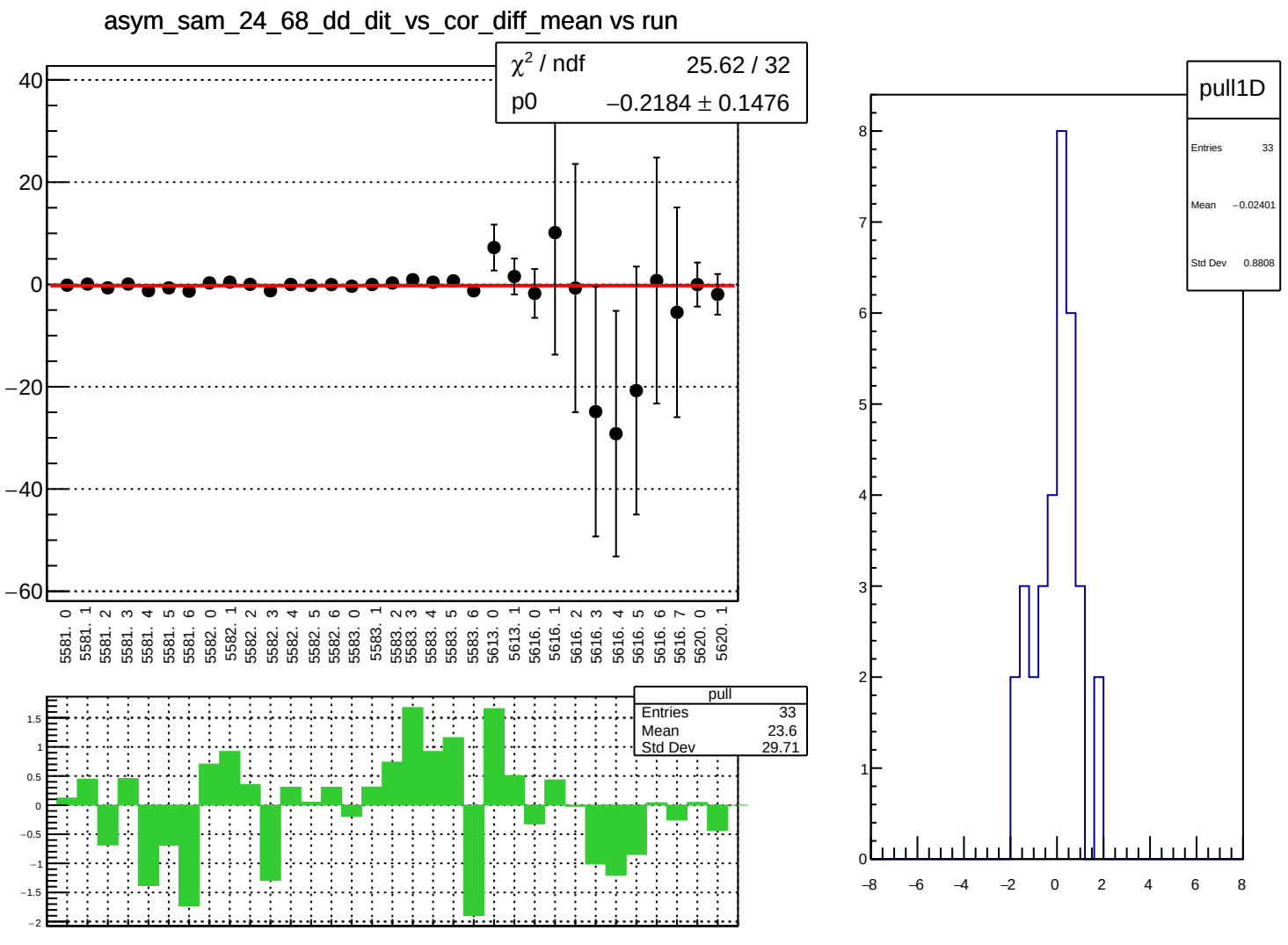

asym_sam_24_68_dd_mean vs run
χ² / ndf 37.05 / 32
p0 2858 ± 3117
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 123.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

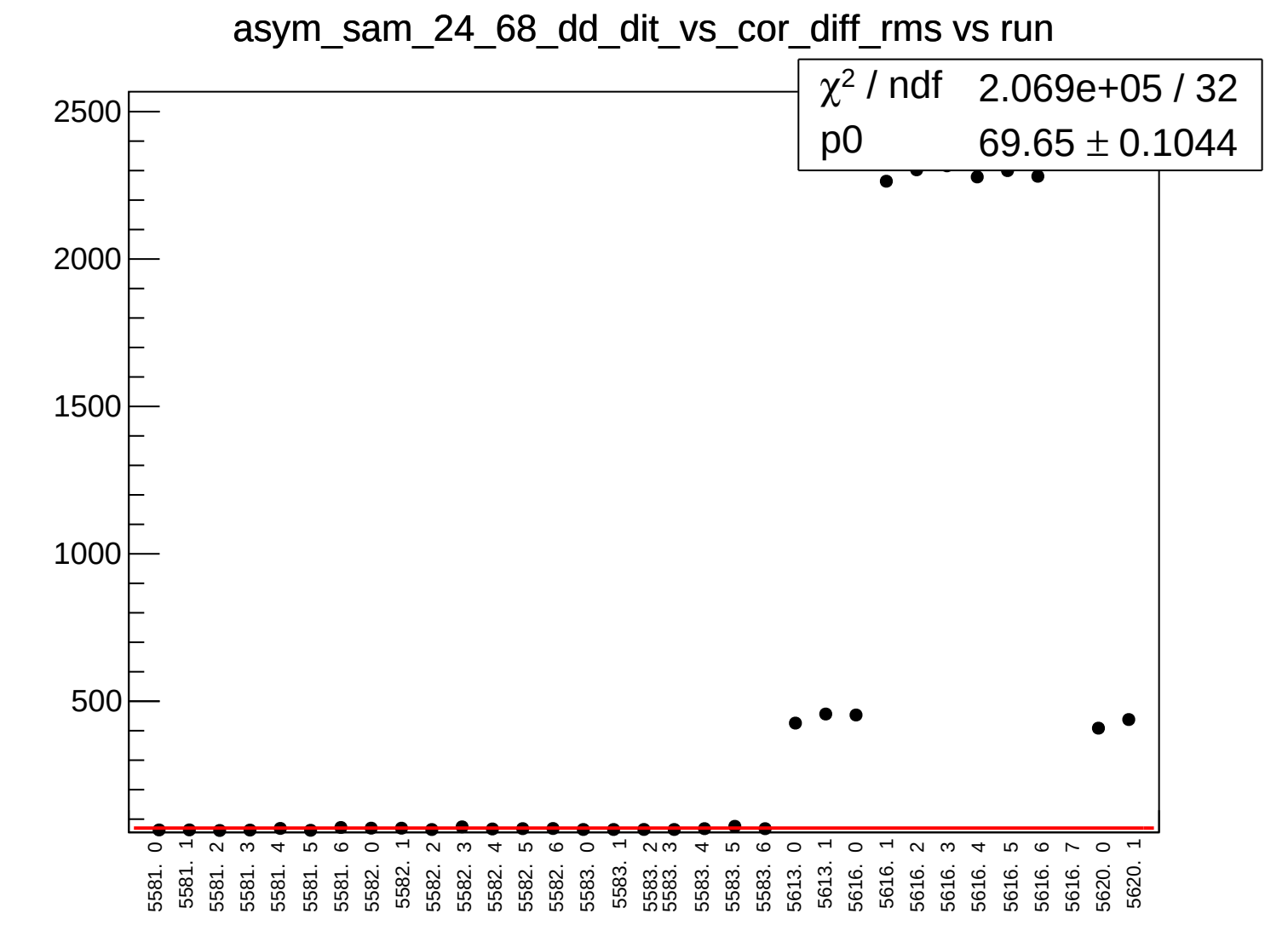

pull1D
Entries 33
Mean 0.005855
Std Dev 1.06
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_rms vs run
χ² / ndf 3.438e+04 / 32
p0 1732 ± 2.204
3500
3000
2500
2000
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

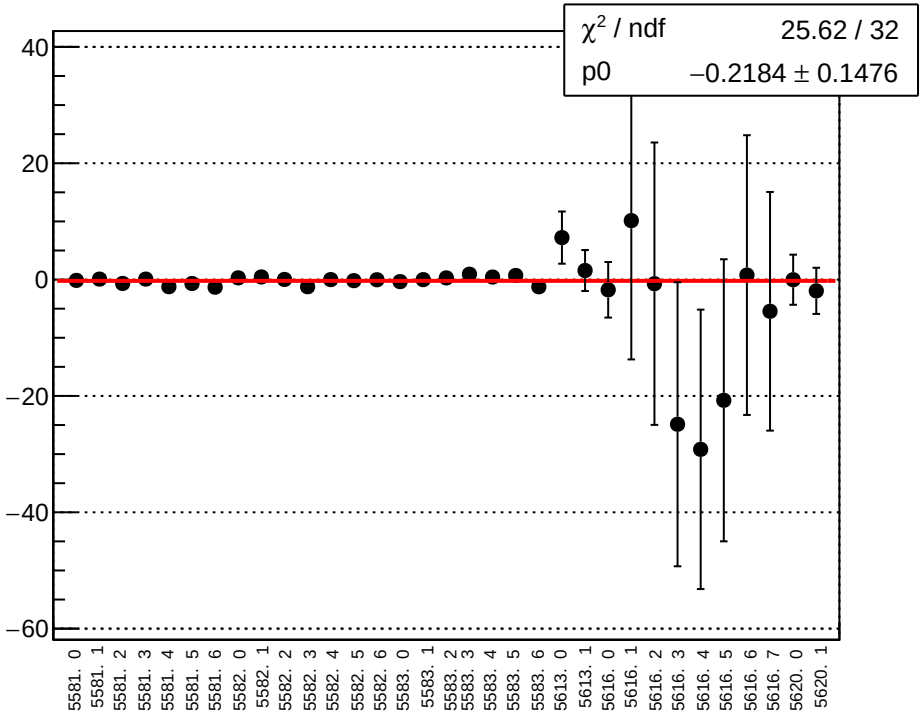

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 24.89 / 32
p0 −7.085e−14 ± 2.631e−13
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.08333
Std Dev 0.8645
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

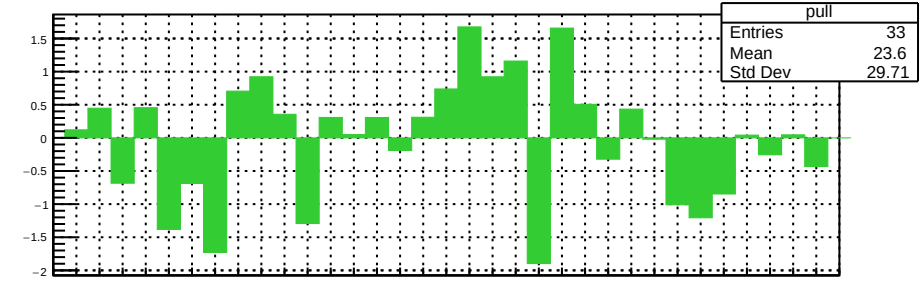

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.276e+05 / 32
p0 1.06e−10 ± 1.861e−13
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

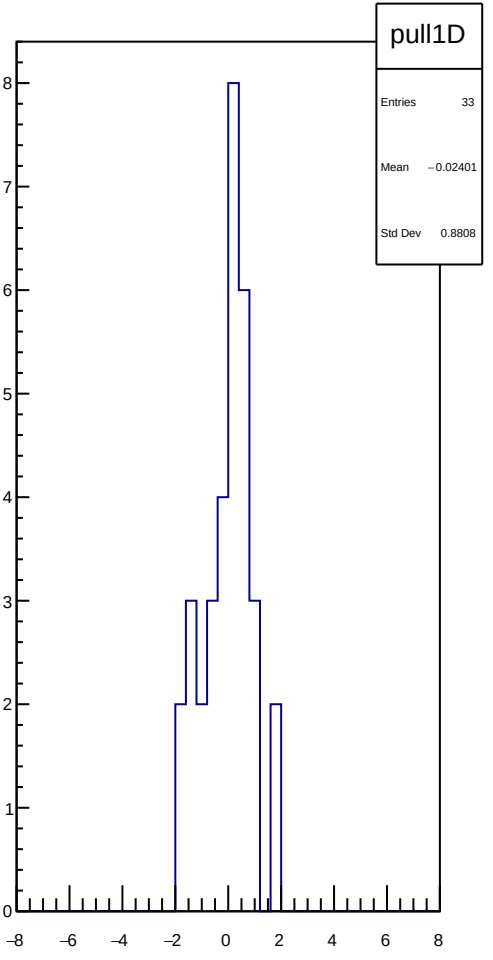

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 25.62 / 32
p0 −0.2184 ± 0.1476
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.6
Std Dev 29.71
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02401
Std Dev 0.8808
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

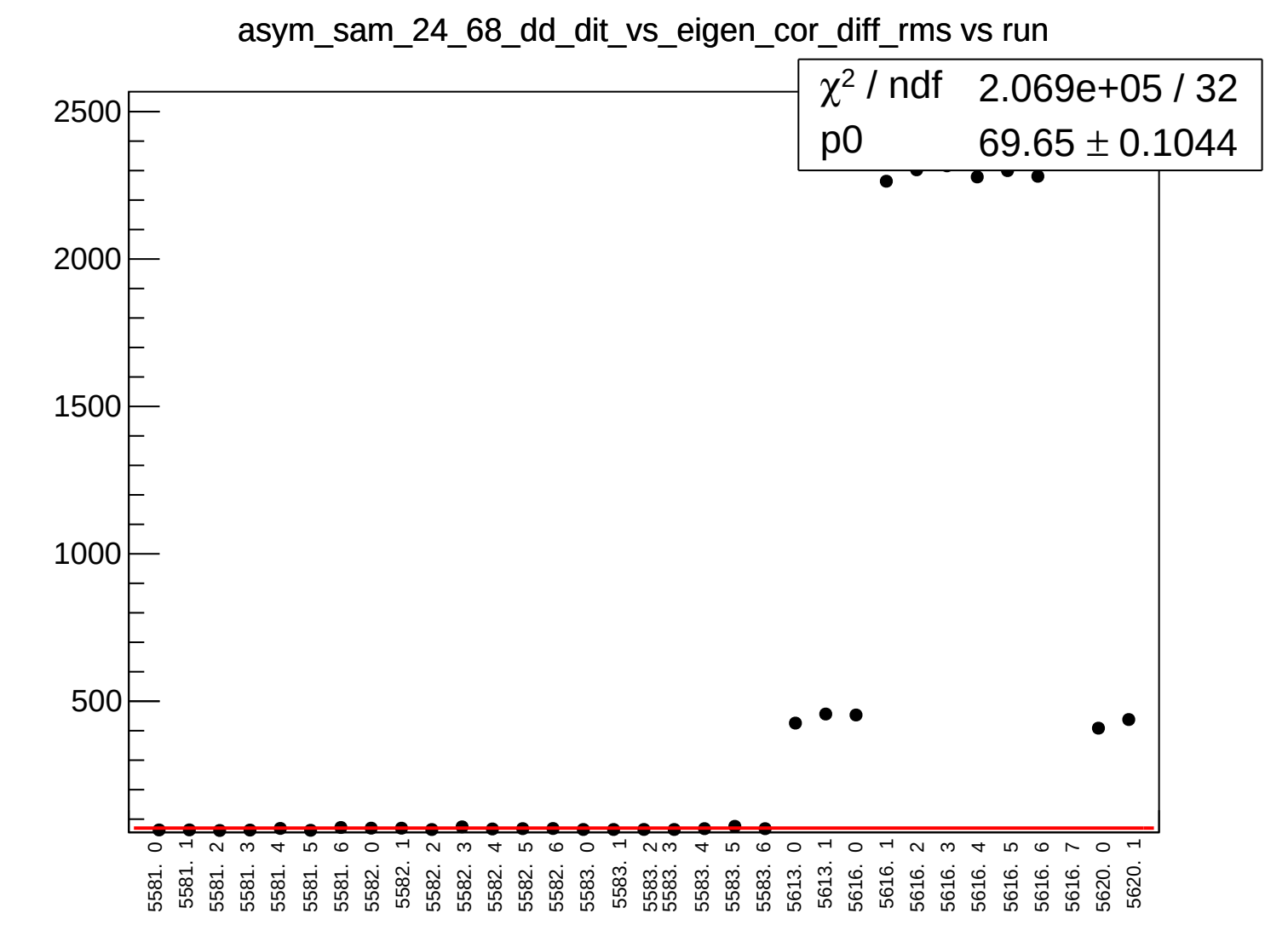

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.069e+05 / 32
p0 69.65 ± 0.1044
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

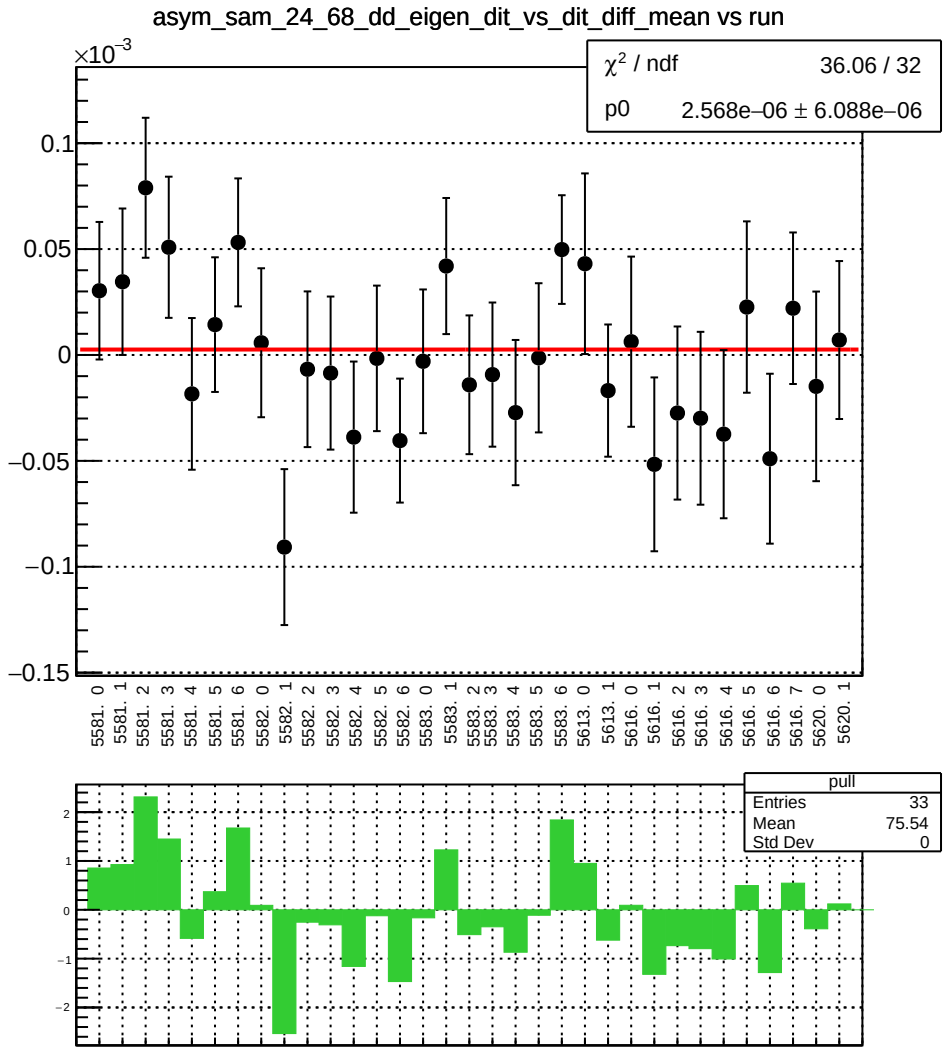
asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run

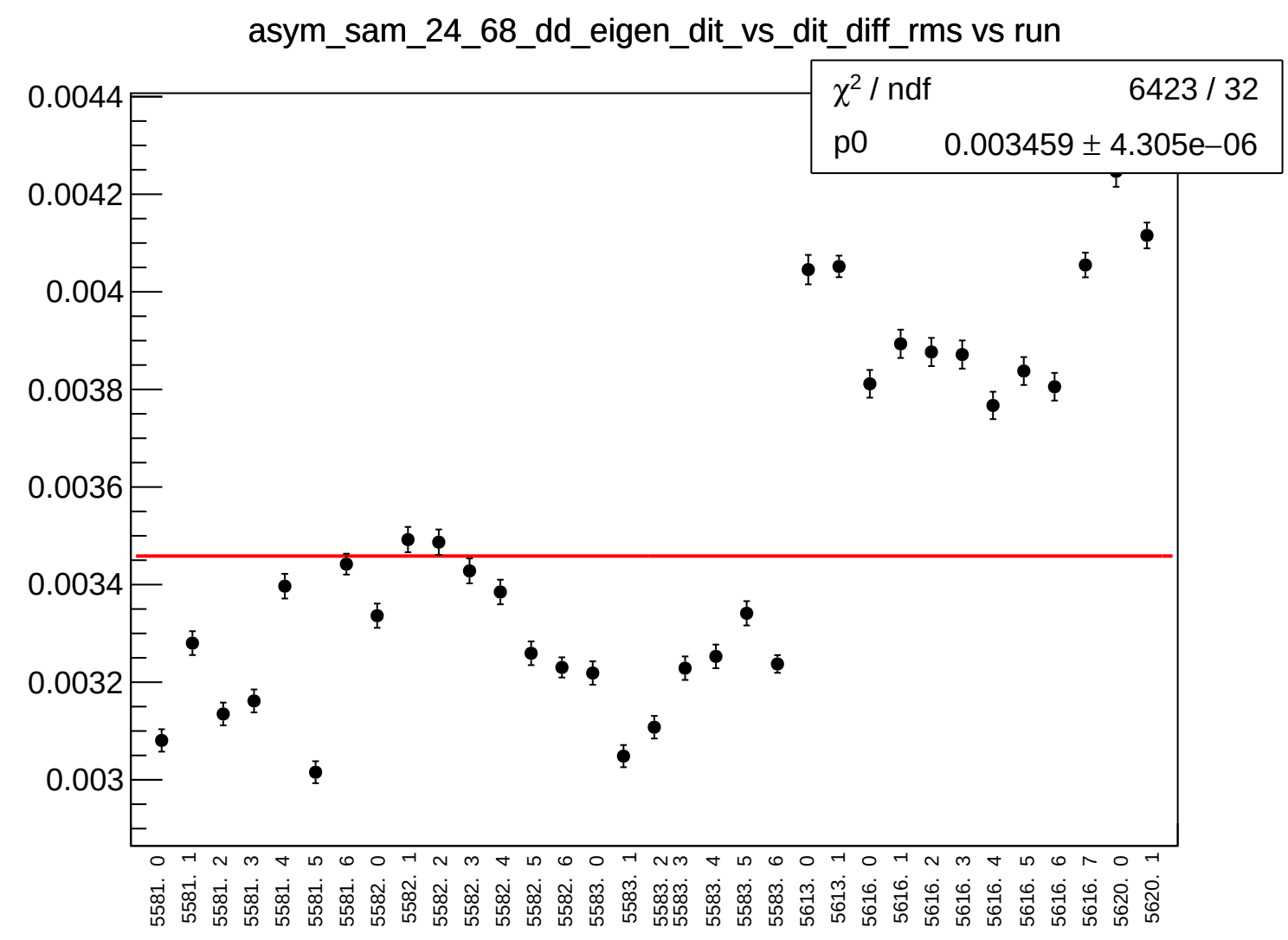


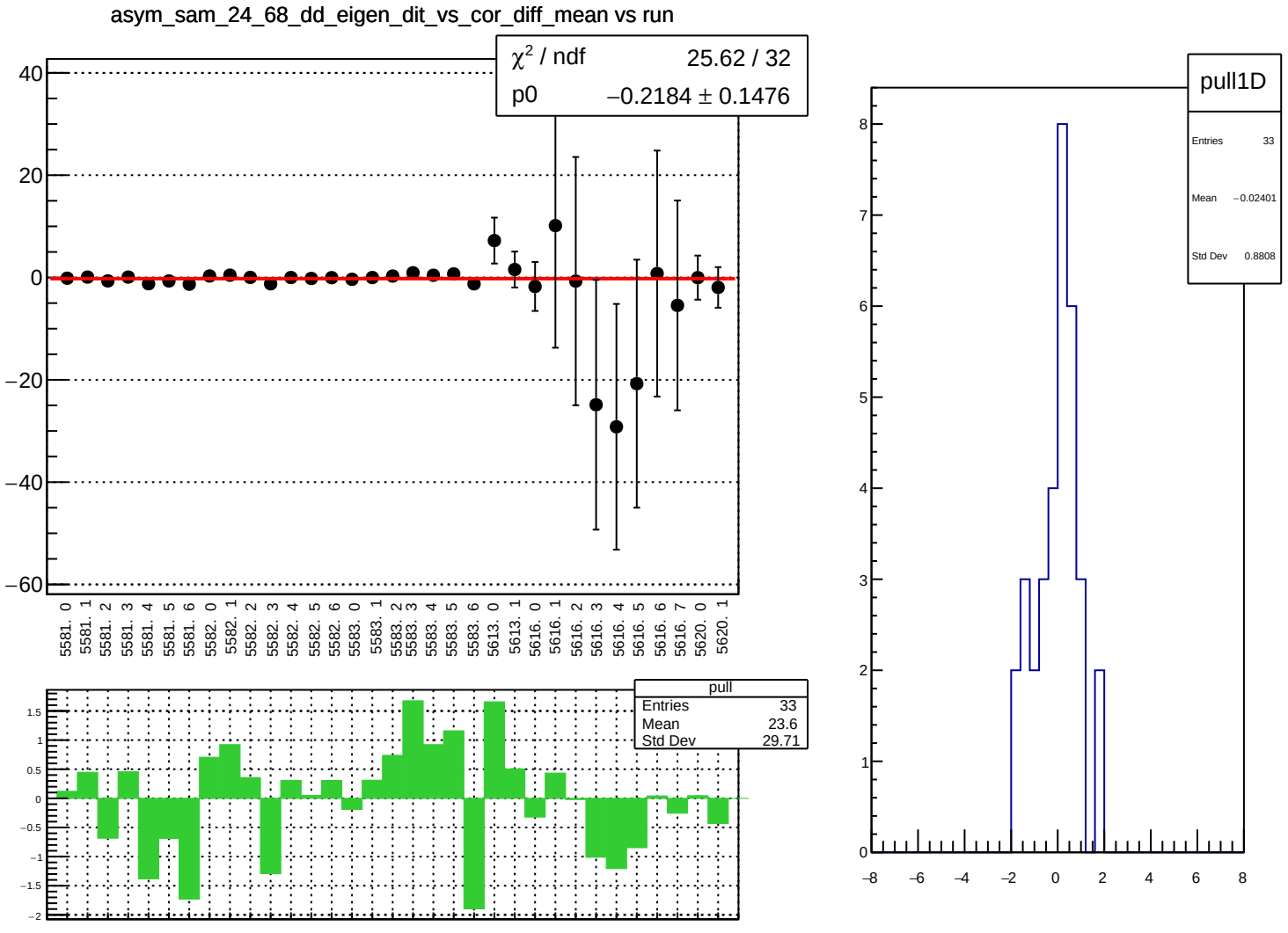


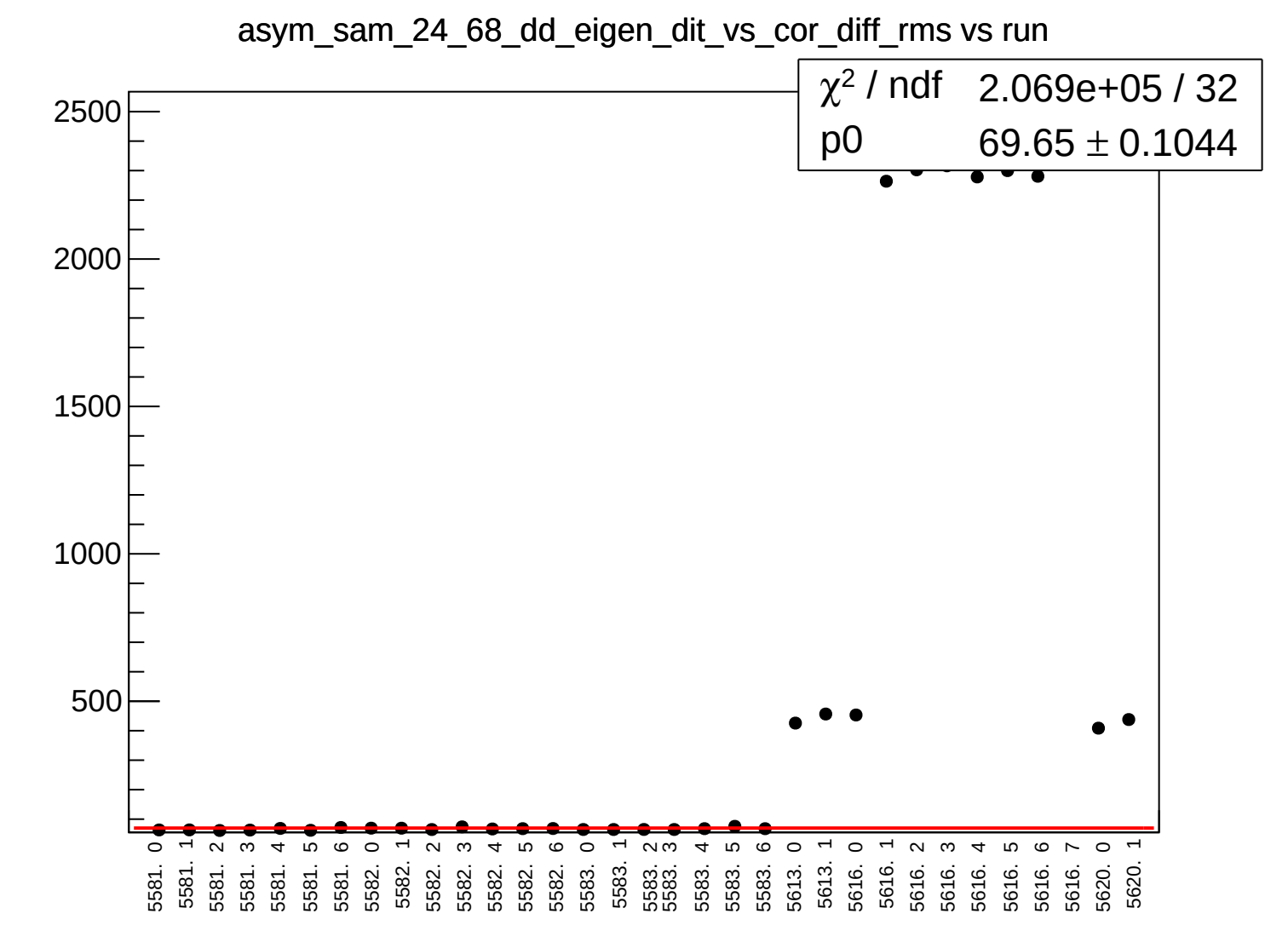


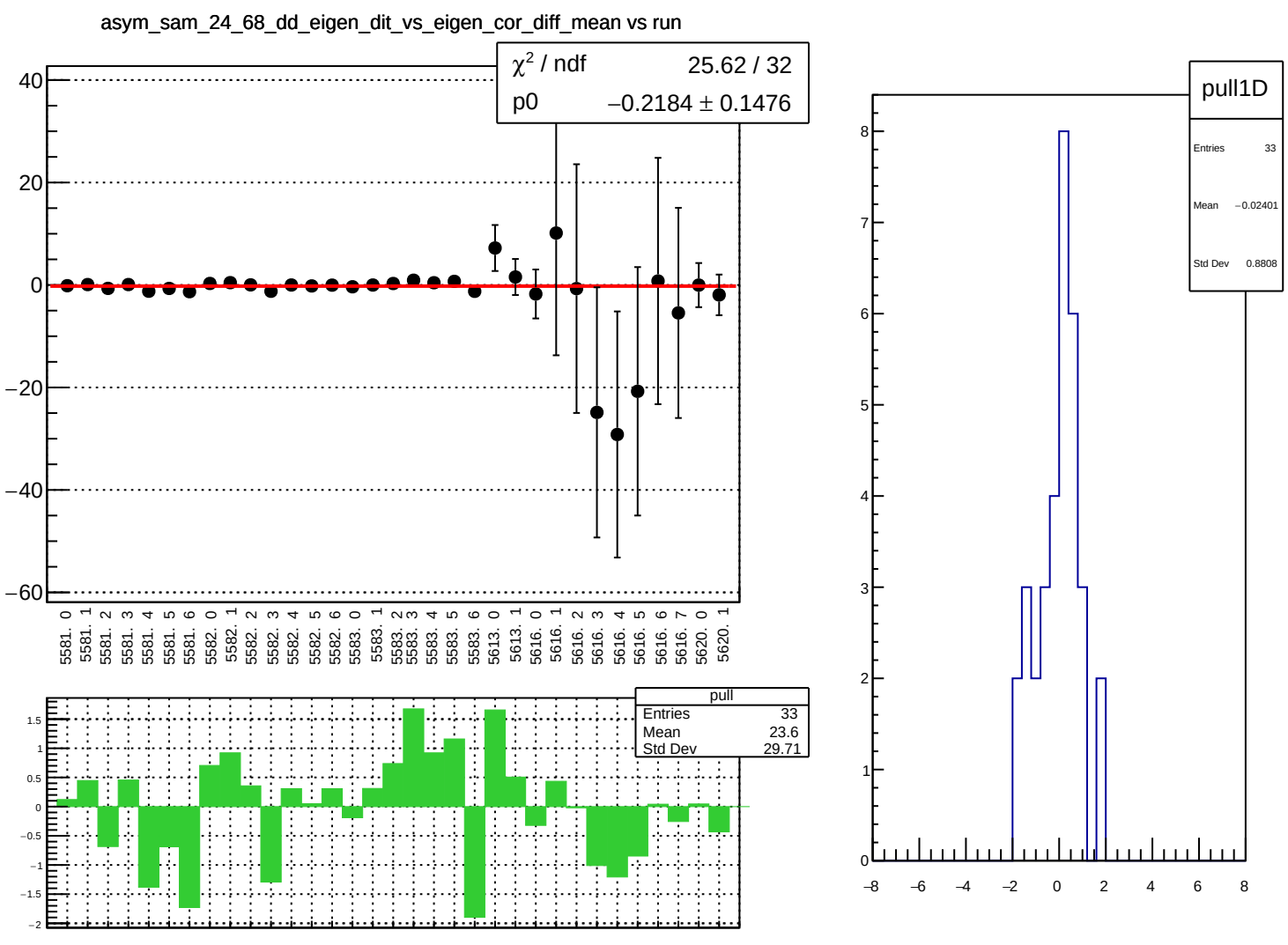

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.069e+05 / 32
p0 69.65 ± 0.1044
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

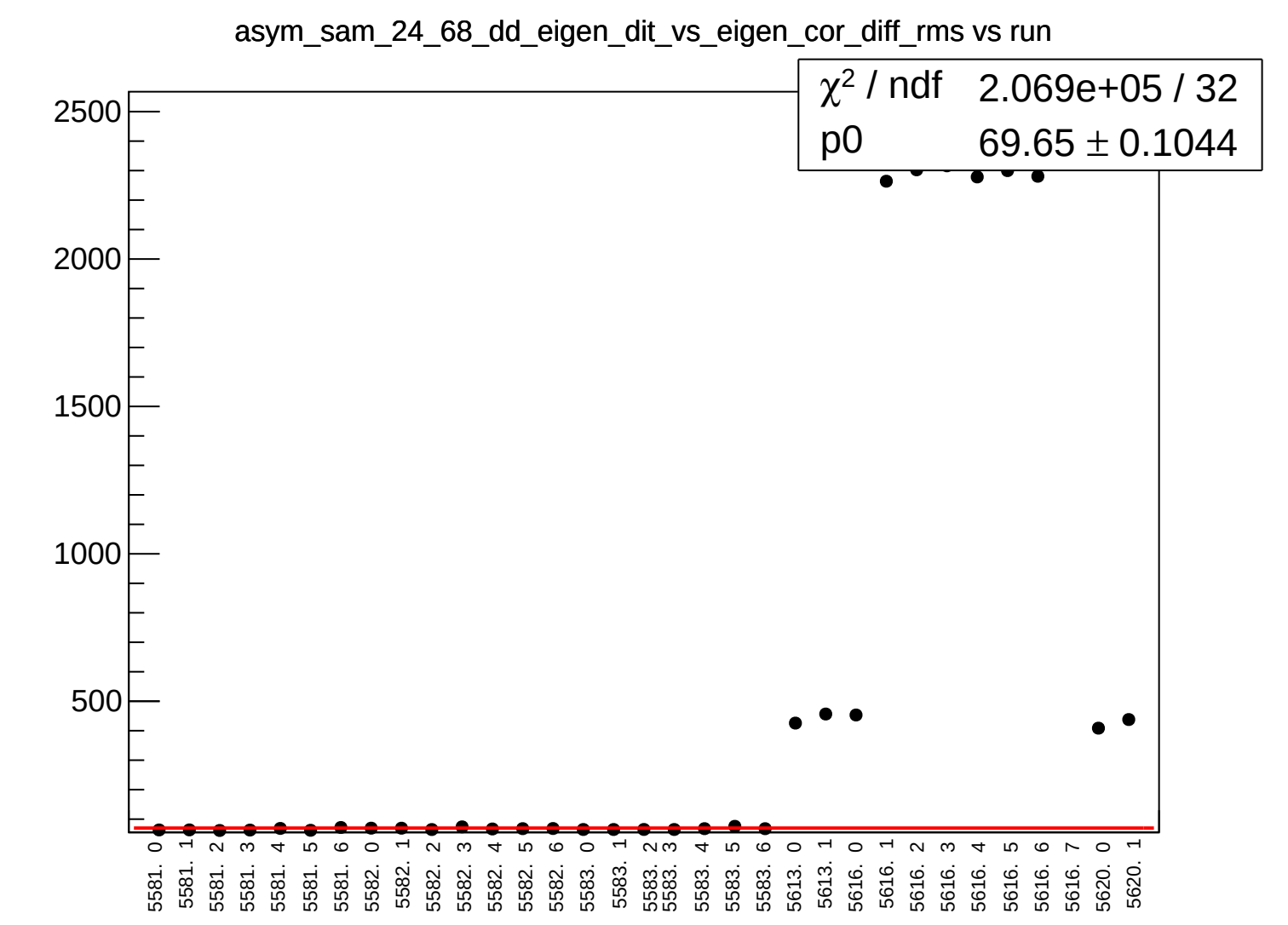

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 36.06 / 32
p0 2.568e−06 ± 6.088e−06
0.1
0.05
0
−0.05
−0.1
−0.15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 75.54
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.04943
Std Dev 1.044
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

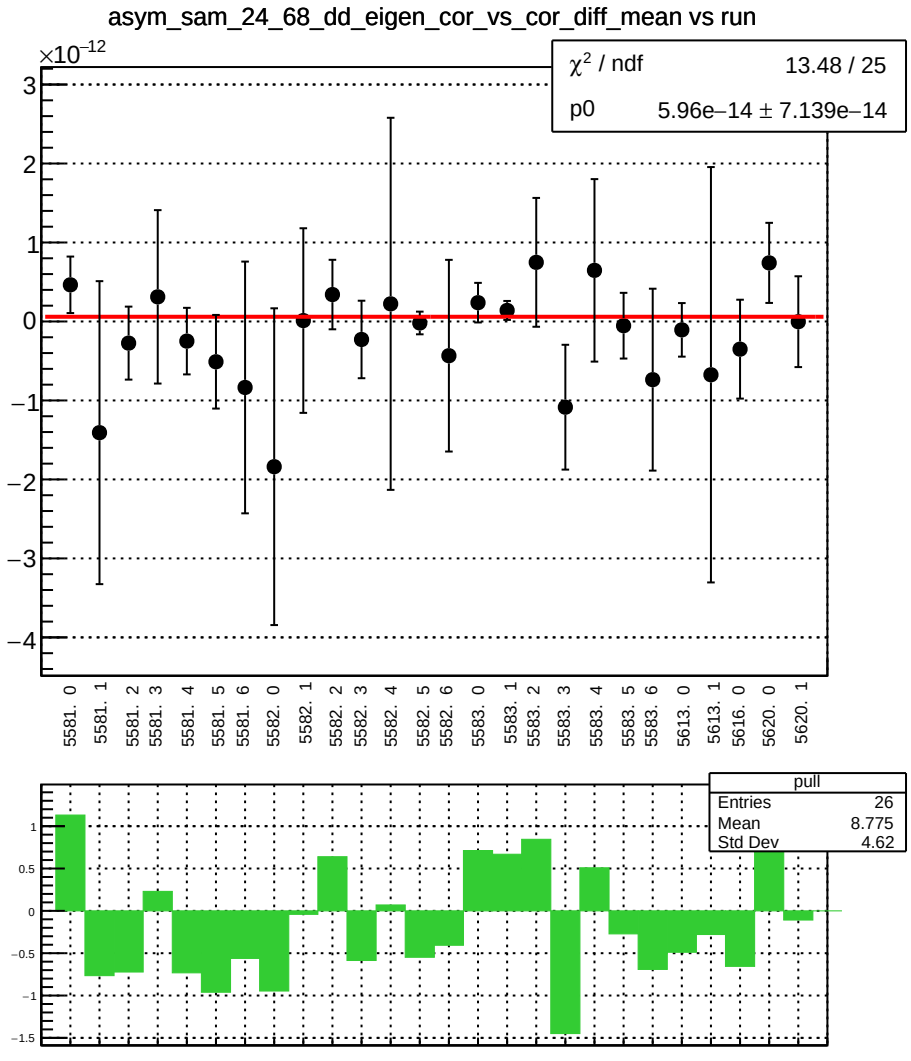

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6423 / 32
p0 0.003459 ± 4.305e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

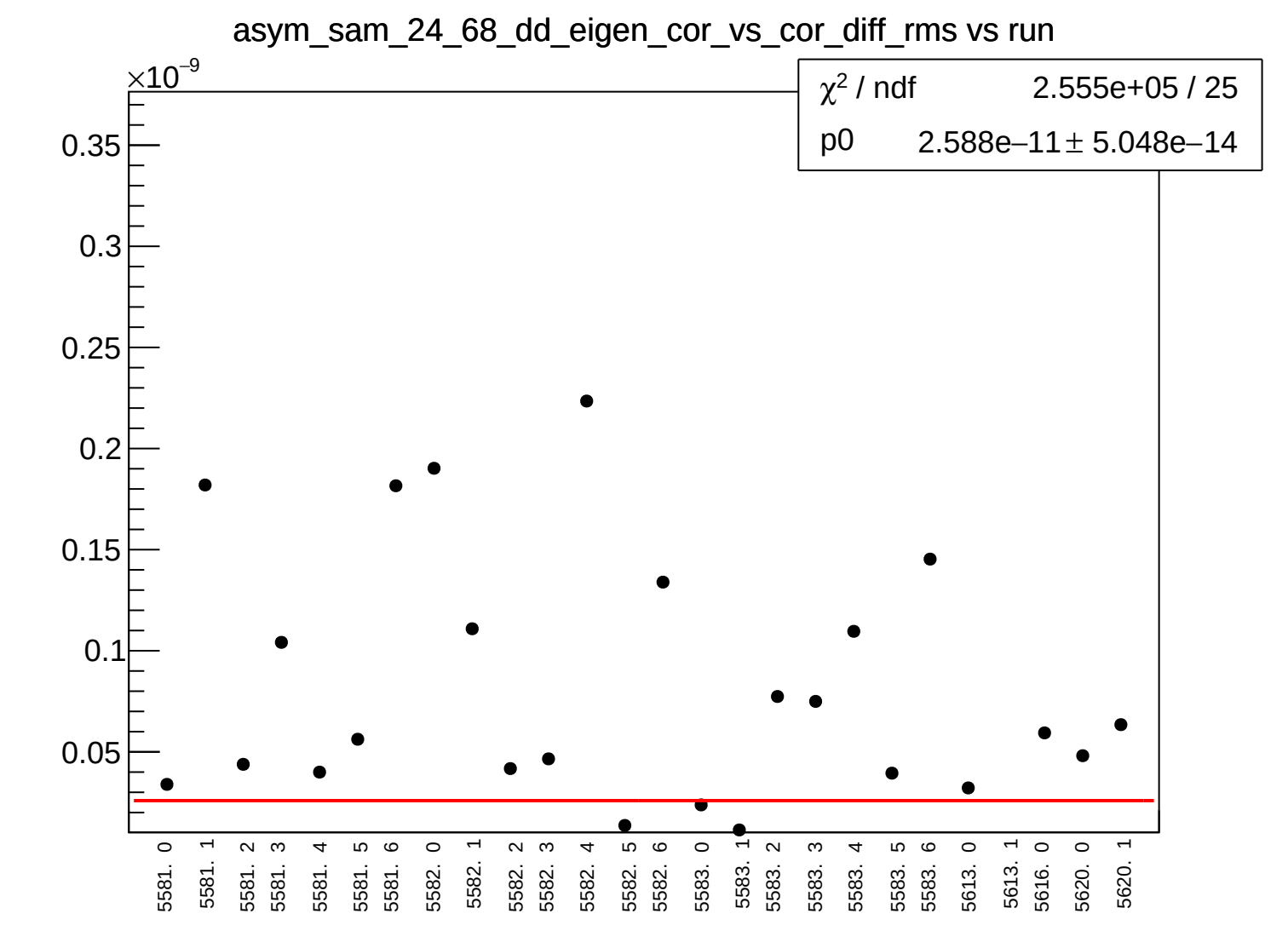

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 25.62 / 32
p0 −0.2184 ± 0.1476
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.6
Std Dev 29.71
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02401
Std Dev 0.8808
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

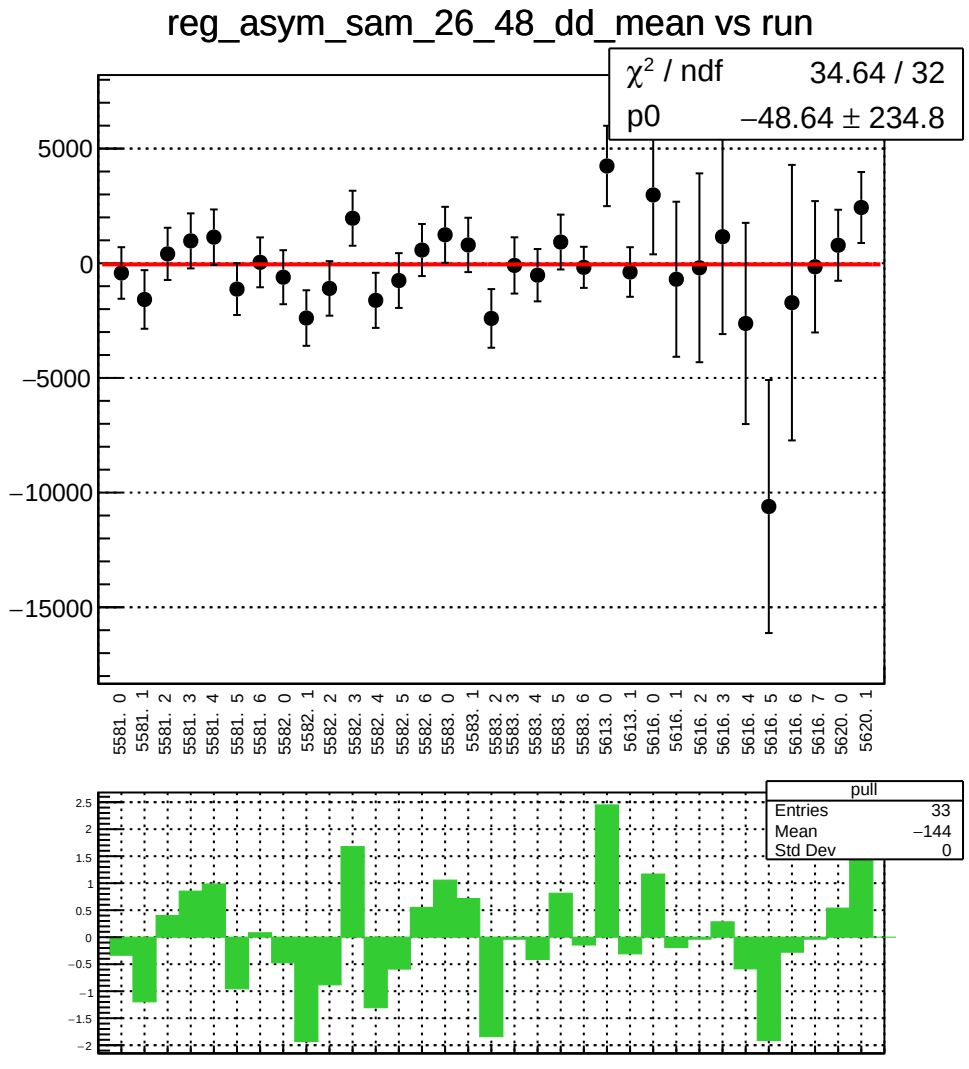

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.069e+05 / 32
p0 69.65 ± 0.1044
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

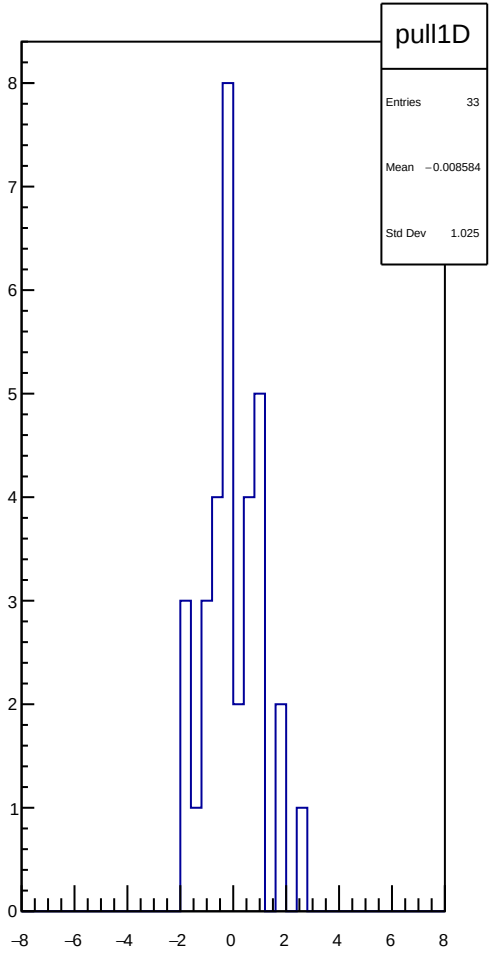

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 25.62 / 32
p0 −0.2184 ± 0.1476
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.6
Std Dev 29.71
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02401
Std Dev 0.8808
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

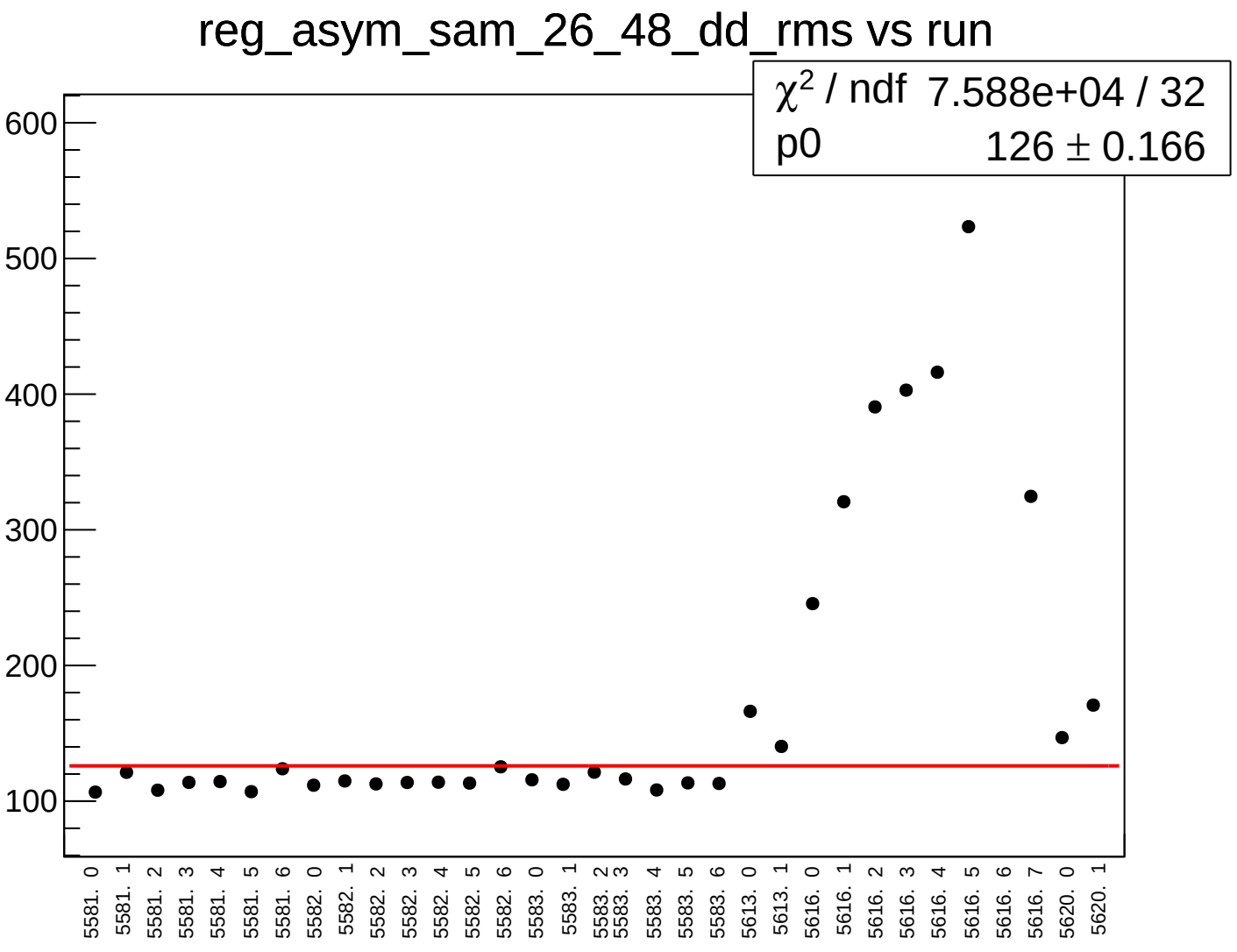

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.069e+05 / 32
p0 69.65 ± 0.1044
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

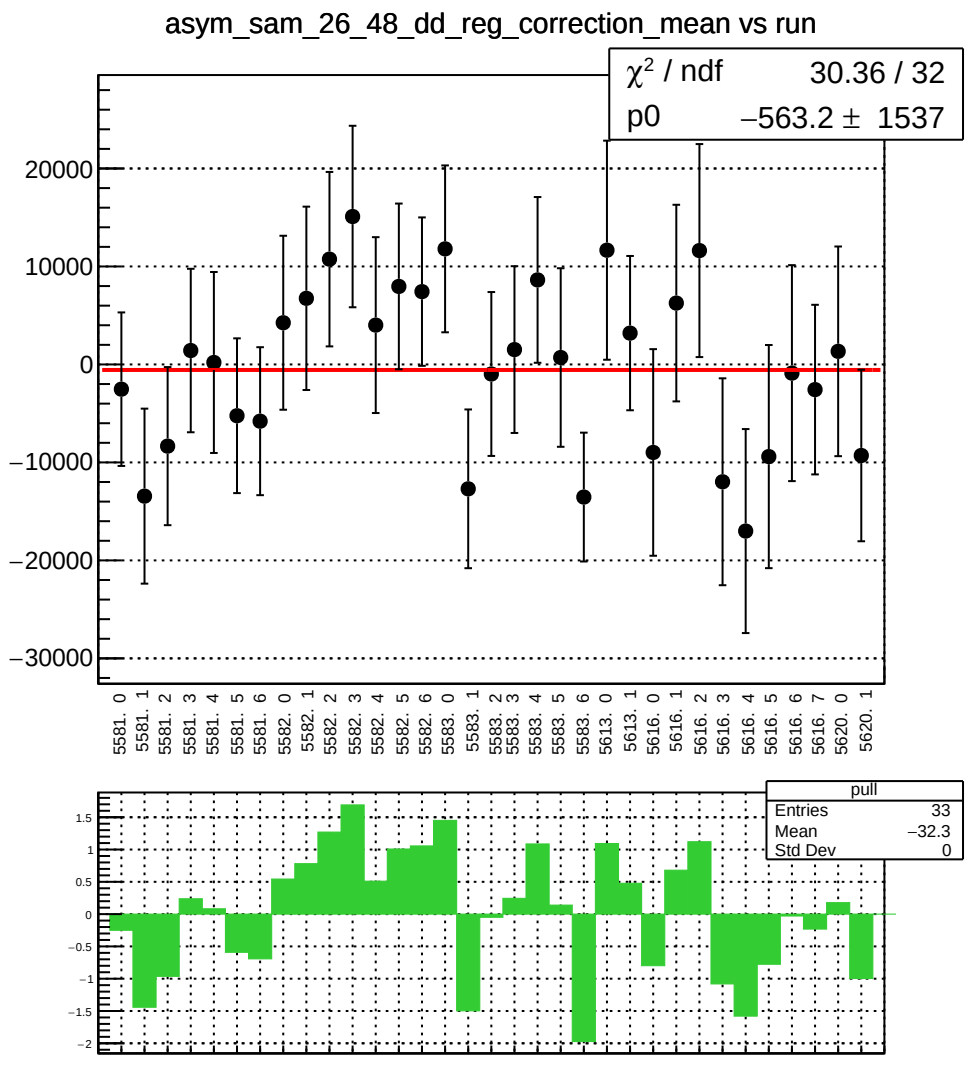

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 13.48 / 25
p0 5.96e−14 ± 7.139e−14
3
2
1
0
−1
−2
−3
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 8.775
Std Dev 4.62
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.1563
Std Dev 0.7029
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

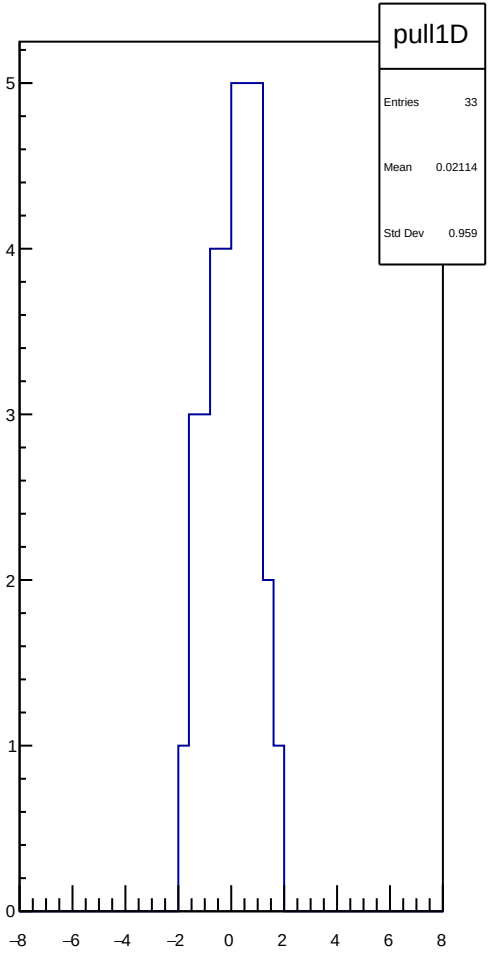

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.555e+05 / 25
p0 2.588e−11 ± 5.048e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

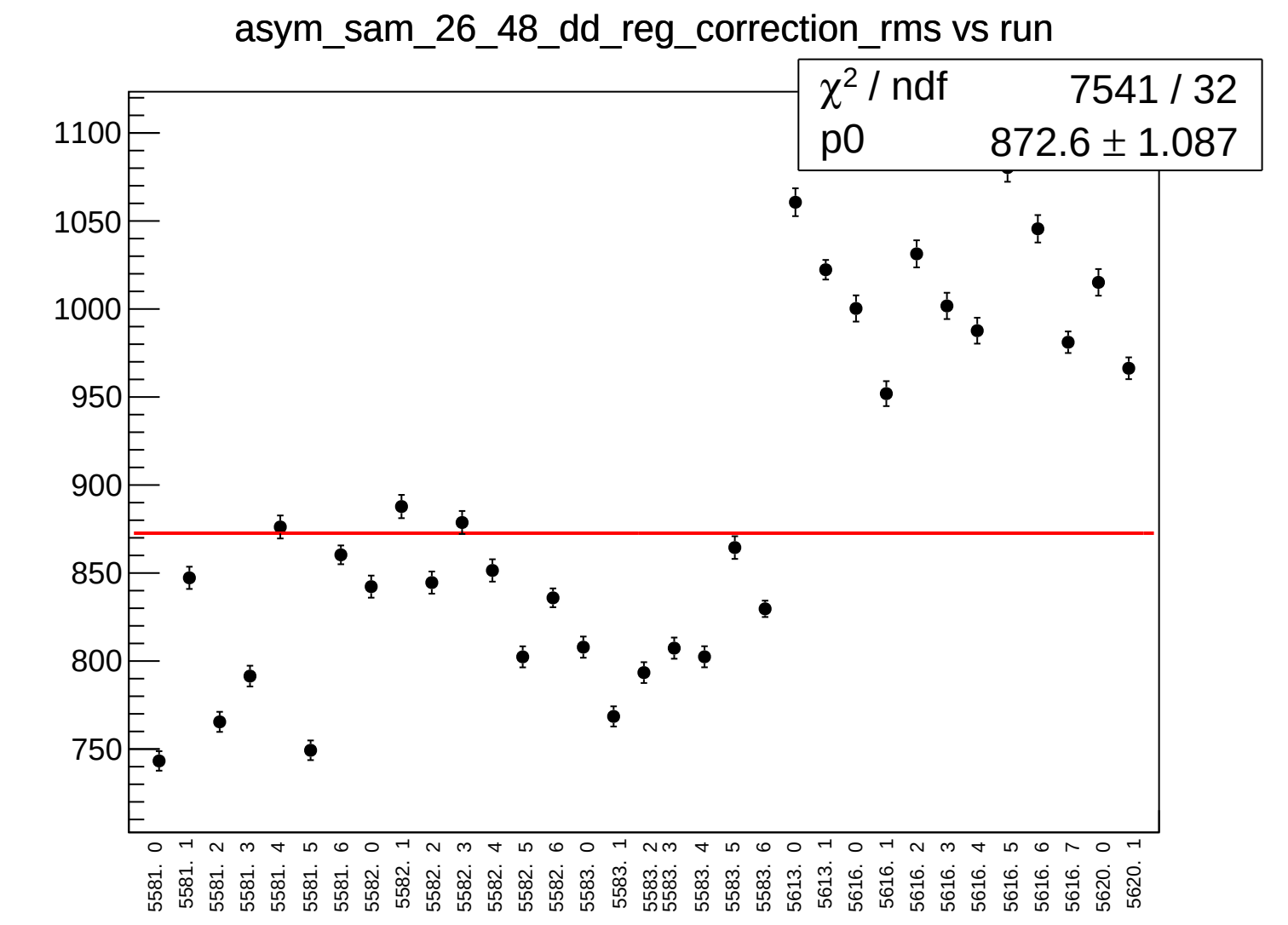

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 34.64 / 32
p0 −48.64 ± 234.8
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −144
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

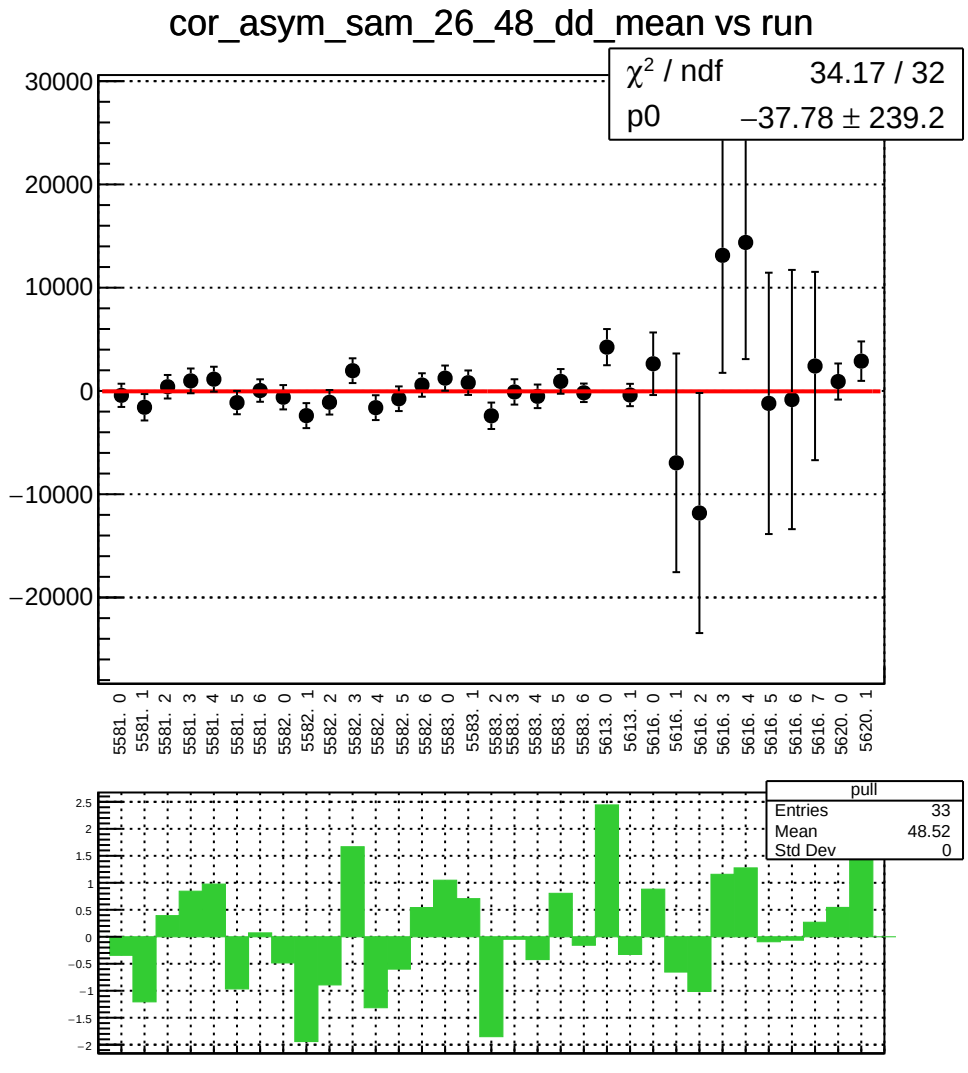

pull1D
Entries 33
Mean −0.008584
Std Dev 1.025
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

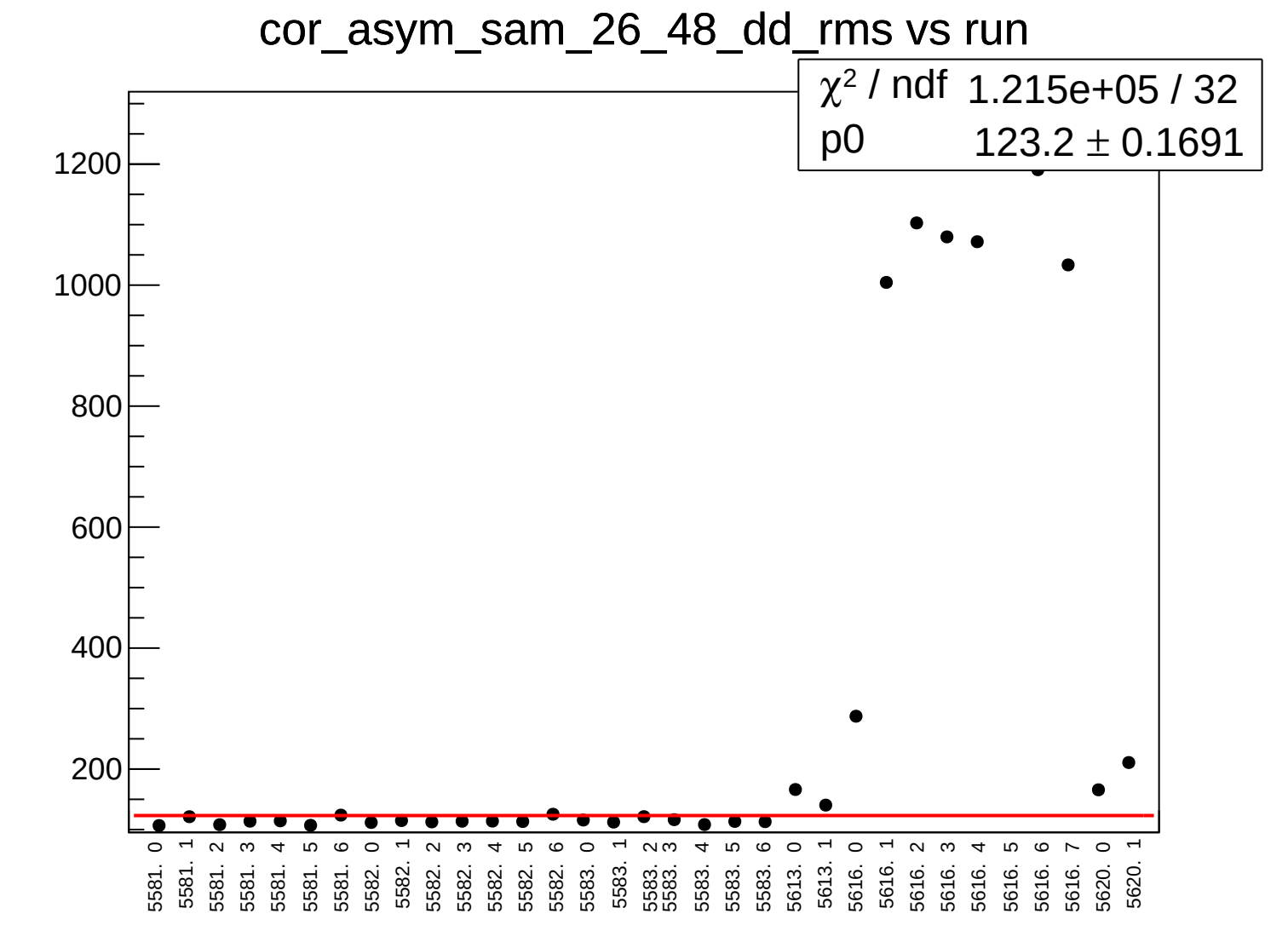

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 7.588e+04 / 32
p0 126 ± 0.166
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1


asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 30.36 / 32
p0 −563.2 ± 1537
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −32.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

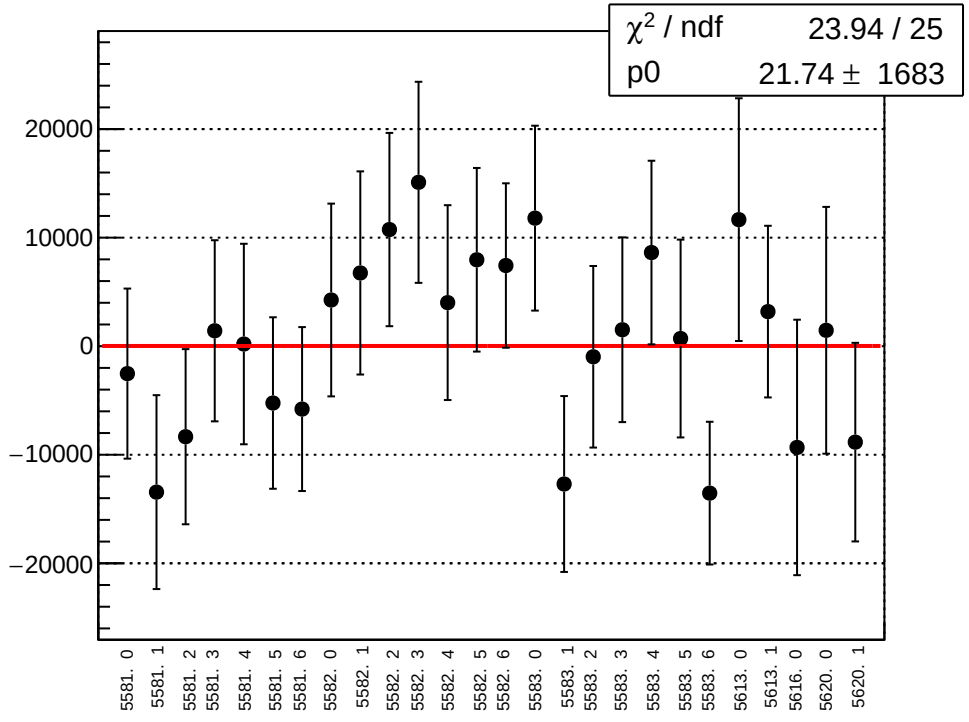

pull1D
Entries 33
Mean 0.02114
Std Dev 0.959
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

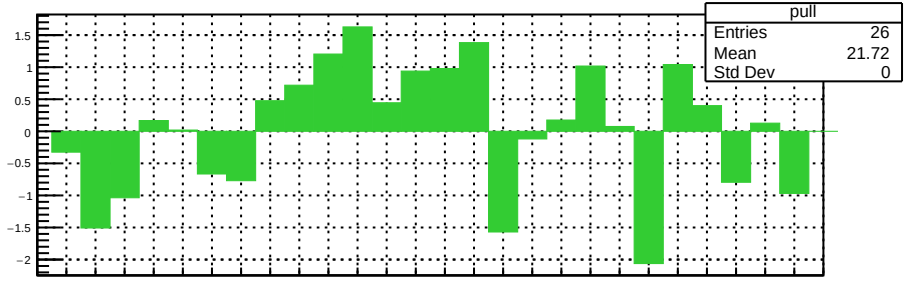

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 7541 / 32
p0 872.6 ± 1.087
1100
1050
1000
950
900
850
800
750
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

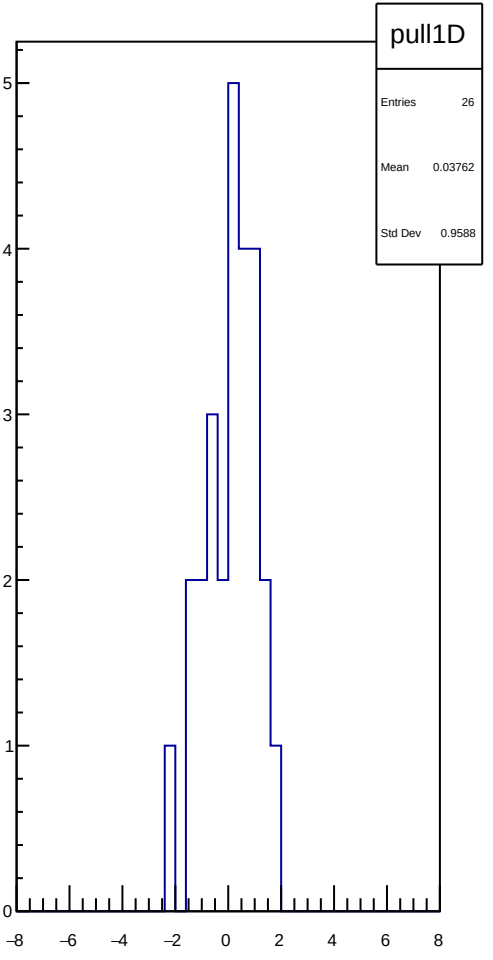

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 34.17 / 32
p0 −37.78 ± 239.2
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 48.52
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.08428
Std Dev 1.014
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

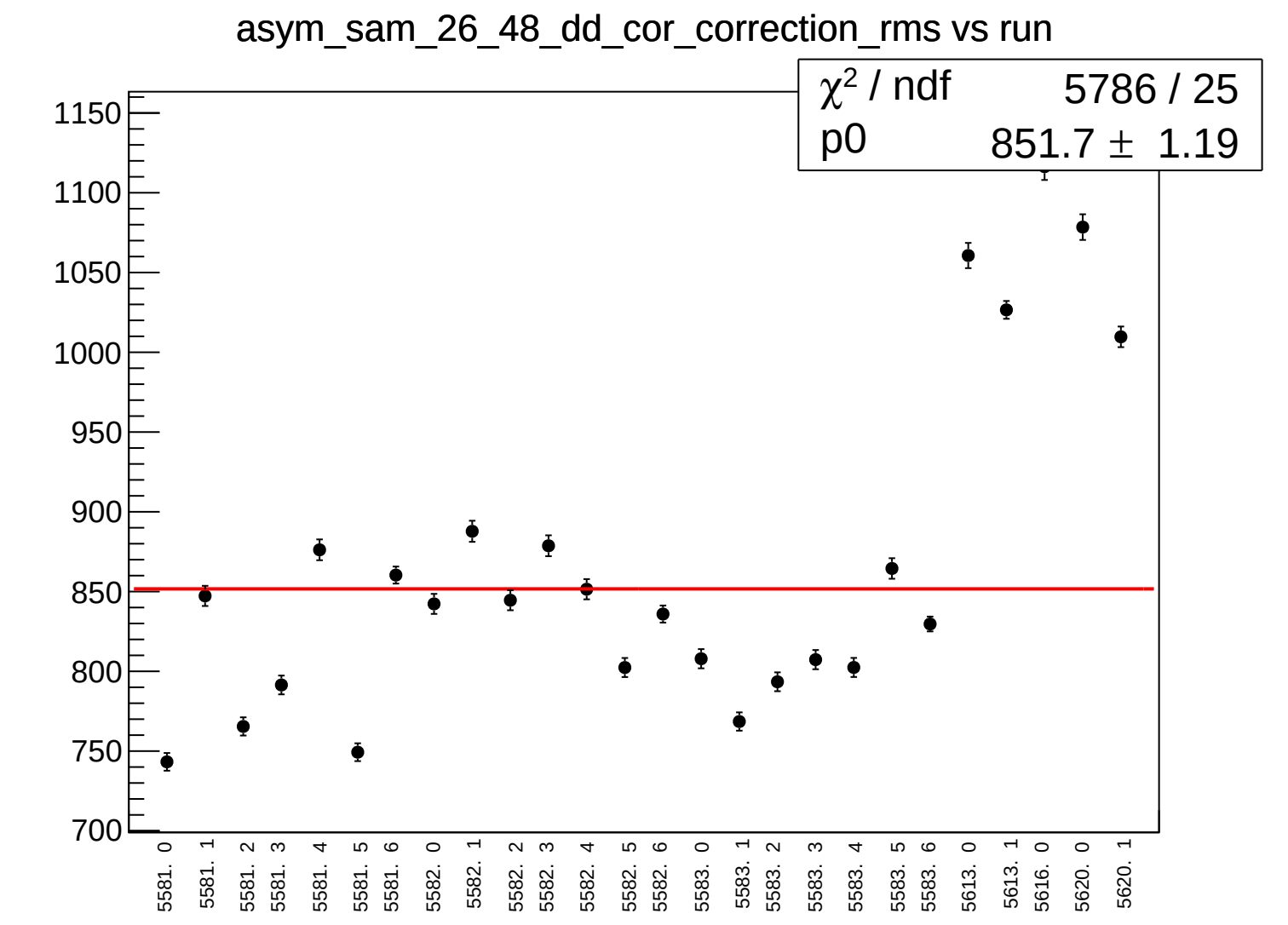

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.215e+05 / 32
p0 123.2 ± 0.1691
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

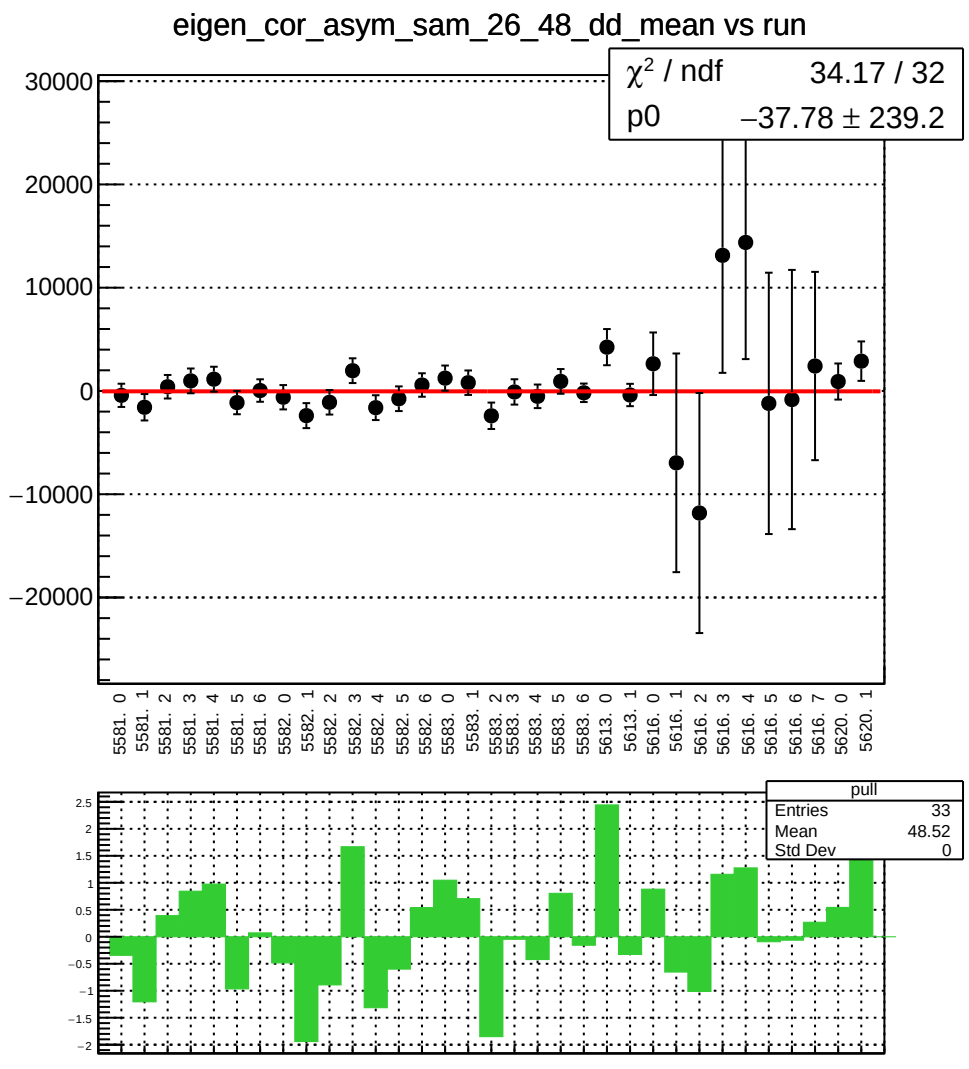
asym_sam_26_48_dd_cor_correction_mean vs run

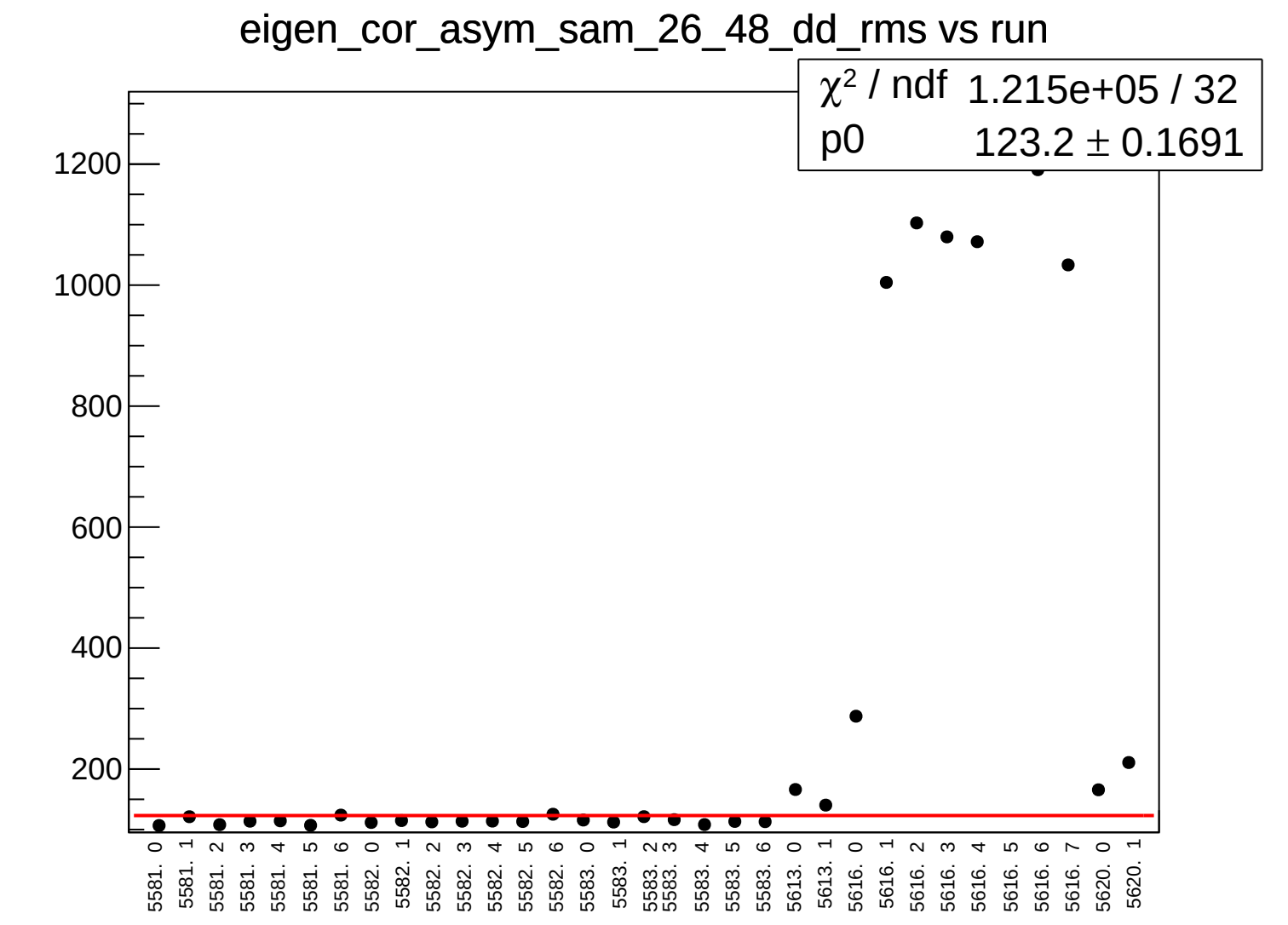


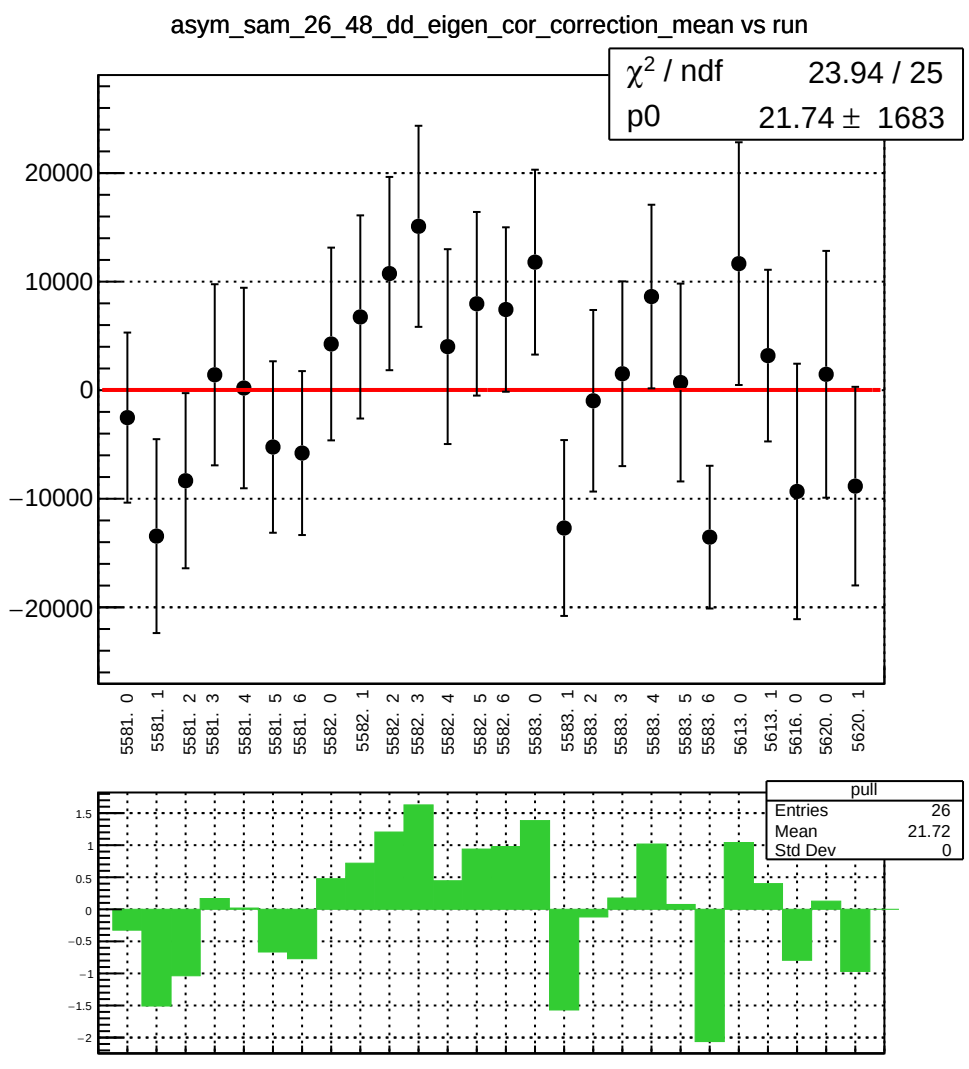


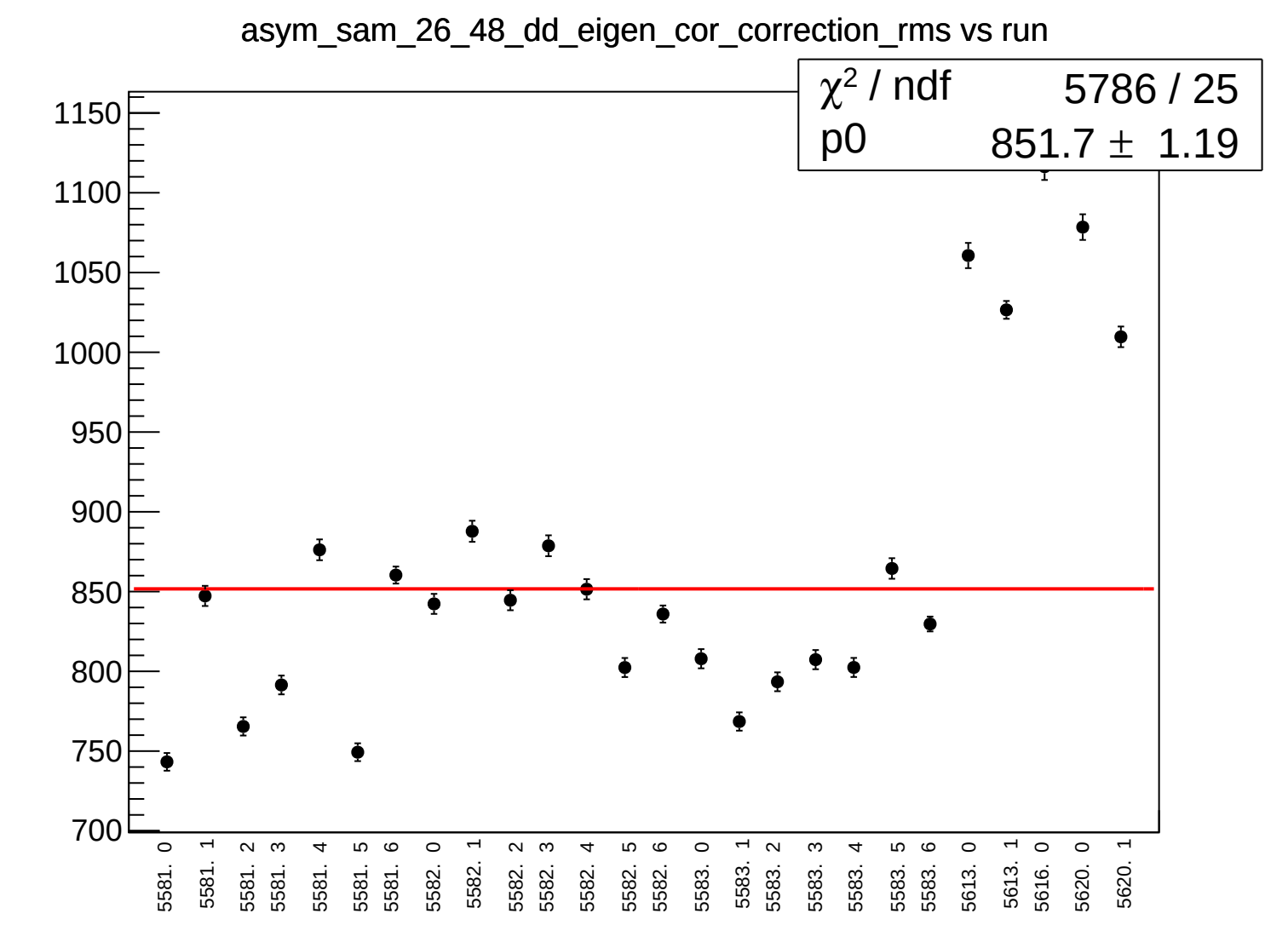


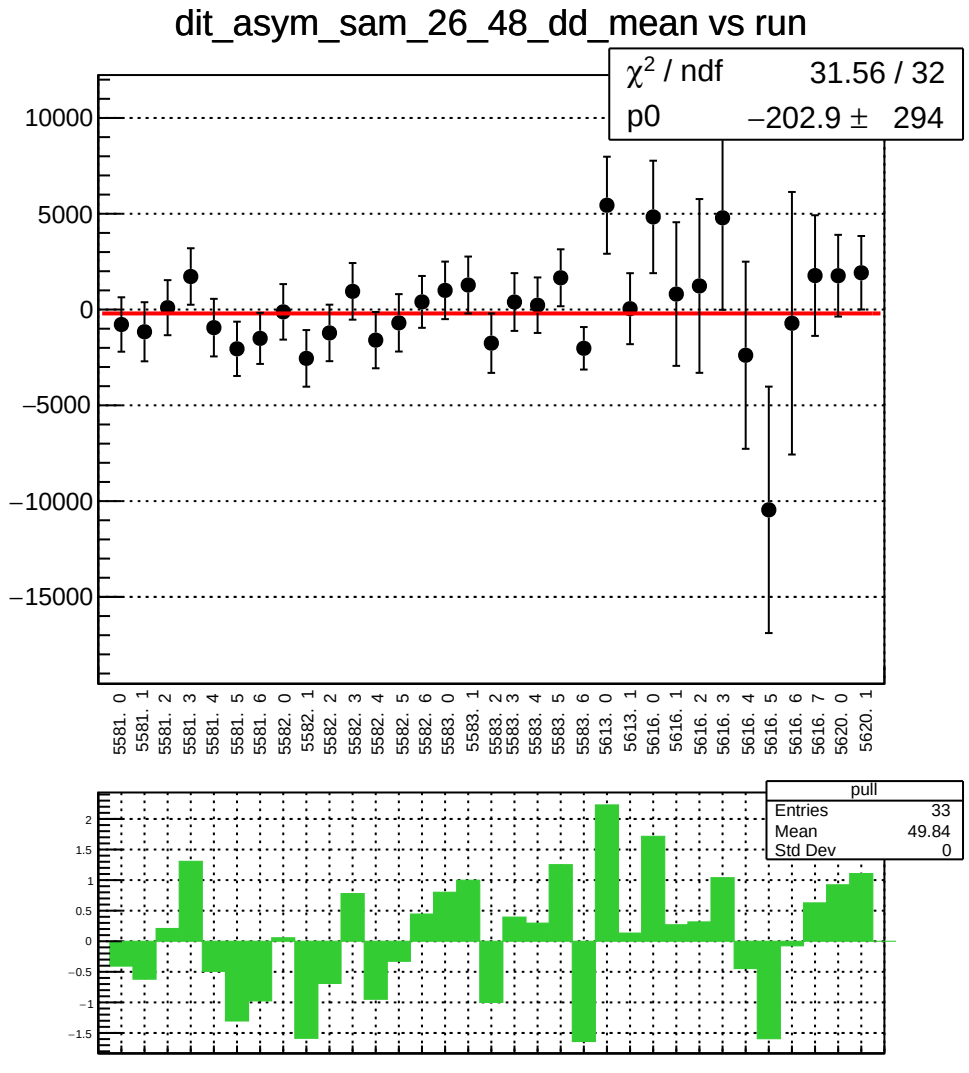

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 5786 / 25
p0 851.7 ± 1.19
1150
1100
1050
1000
950
900
850
800
750
700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

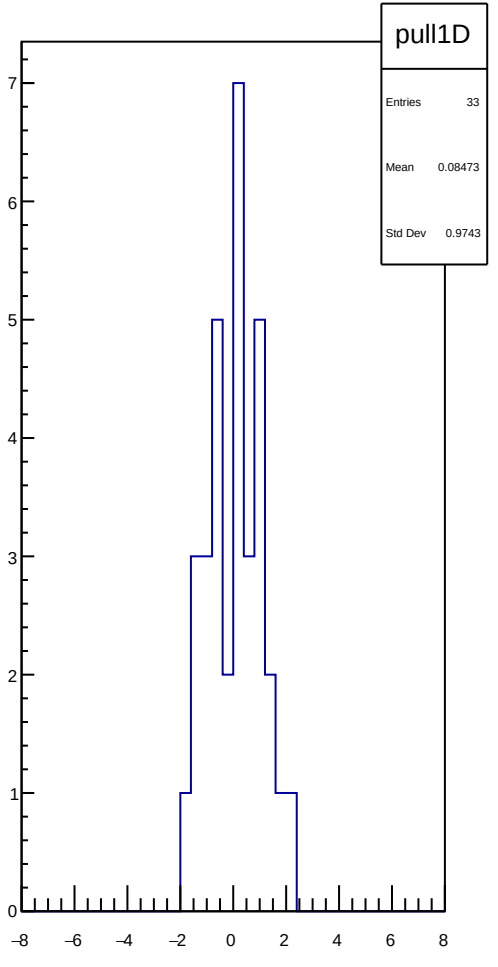

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 34.17 / 32
p0 −37.78 ± 239.2
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 48.52
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.08428
Std Dev 1.014
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

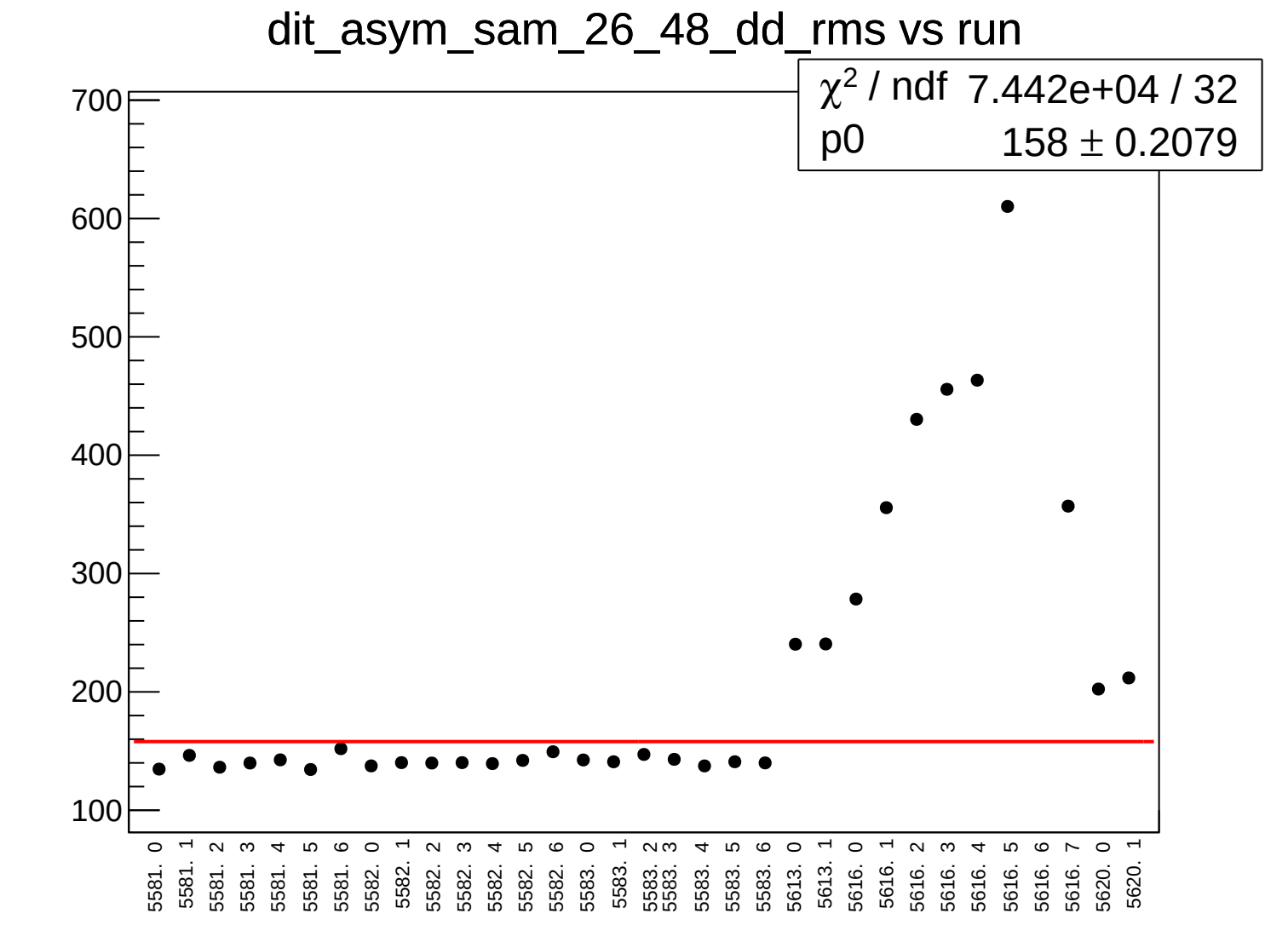

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.215e+05 / 32
p0 123.2 ± 0.1691
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

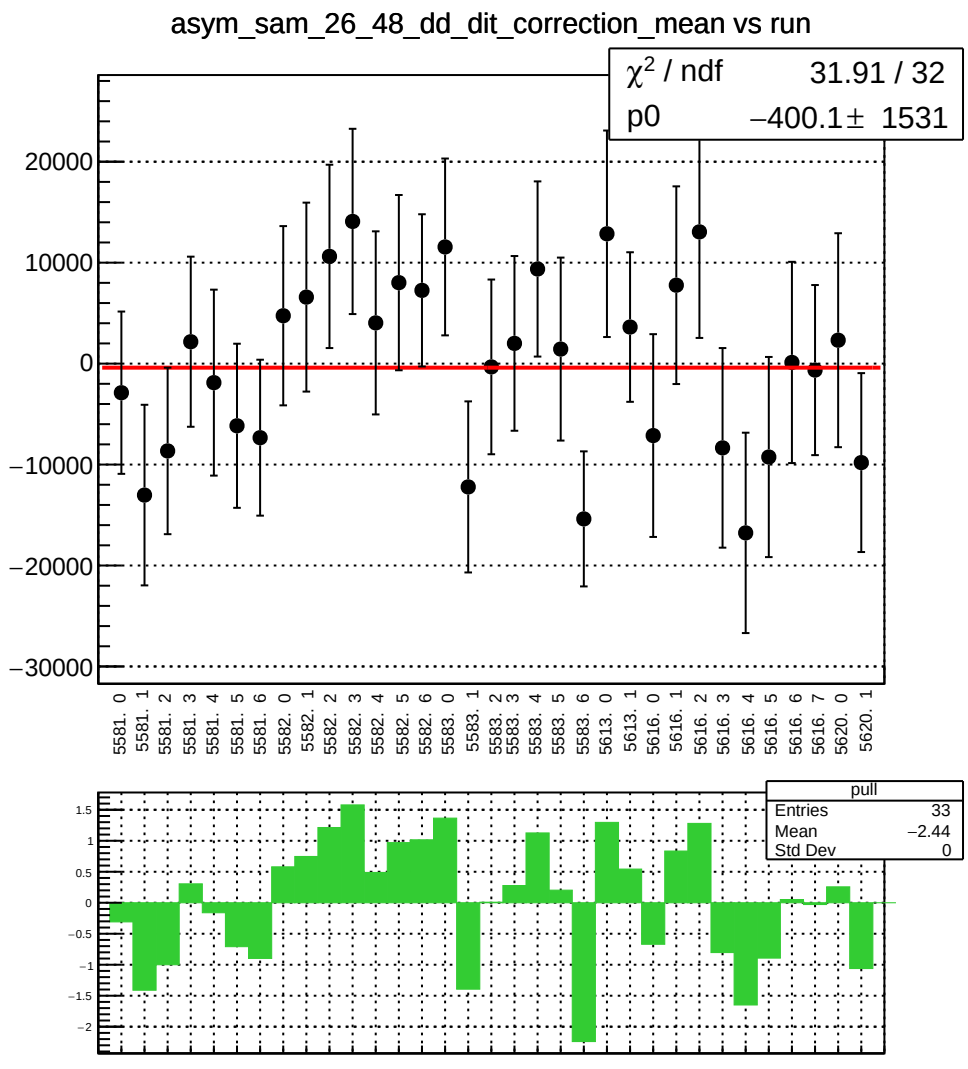

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 23.94 / 25
p0 21.74 ± 1683
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 21.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.03762
Std Dev 0.9588
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

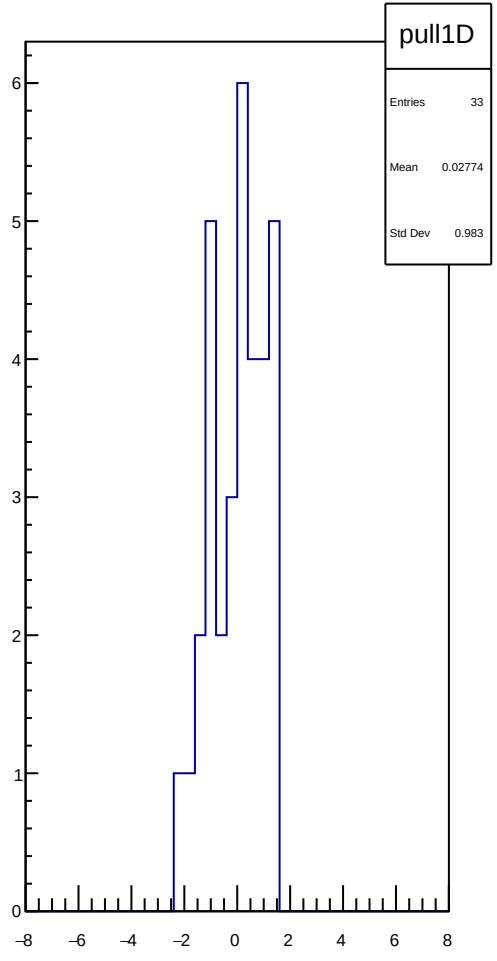

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5786 / 25
p0 851.7 ± 1.19
1150
1100
1050
1000
950
900
850
800
750
700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

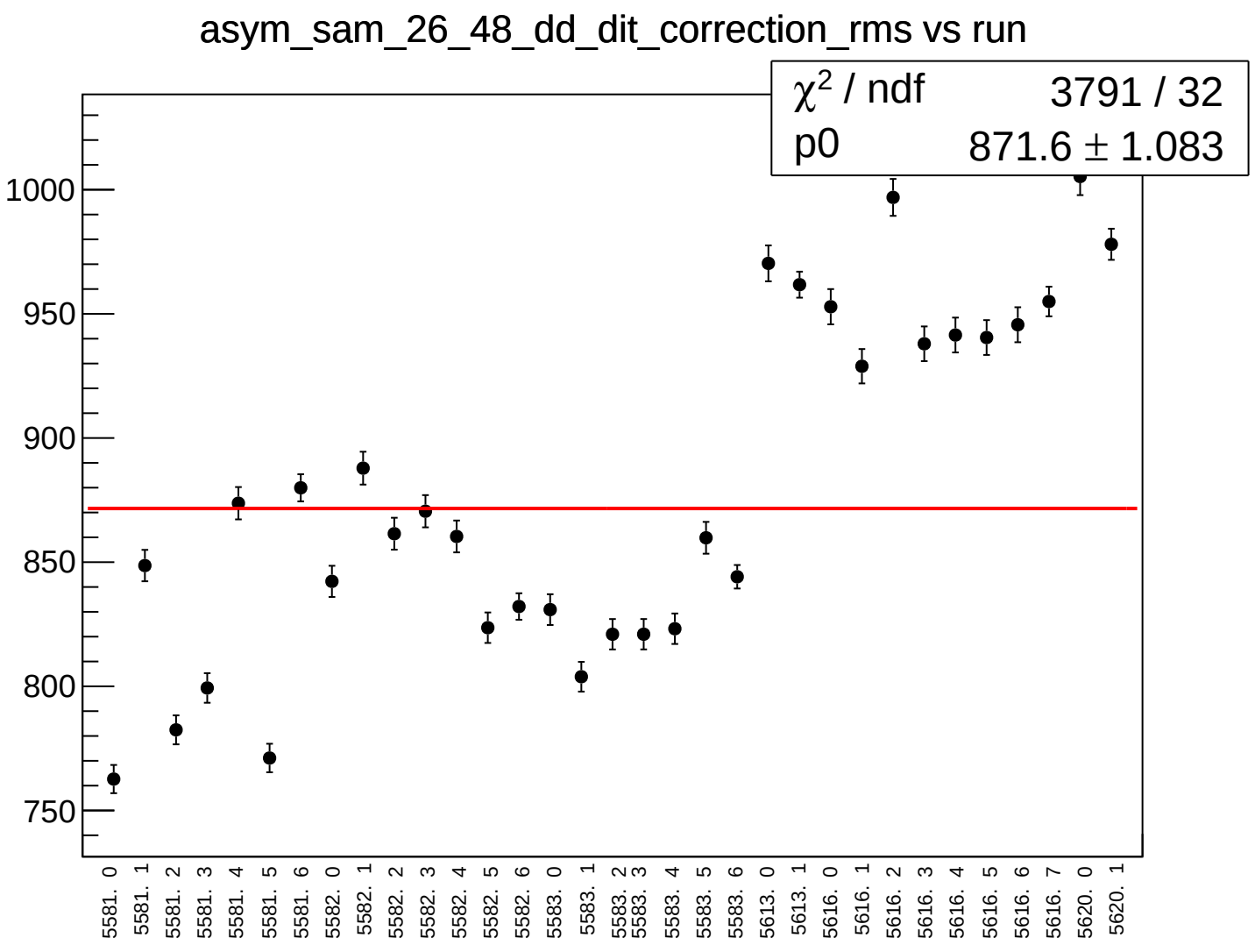

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 31.56 / 32
p0 −202.9 ± 294
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

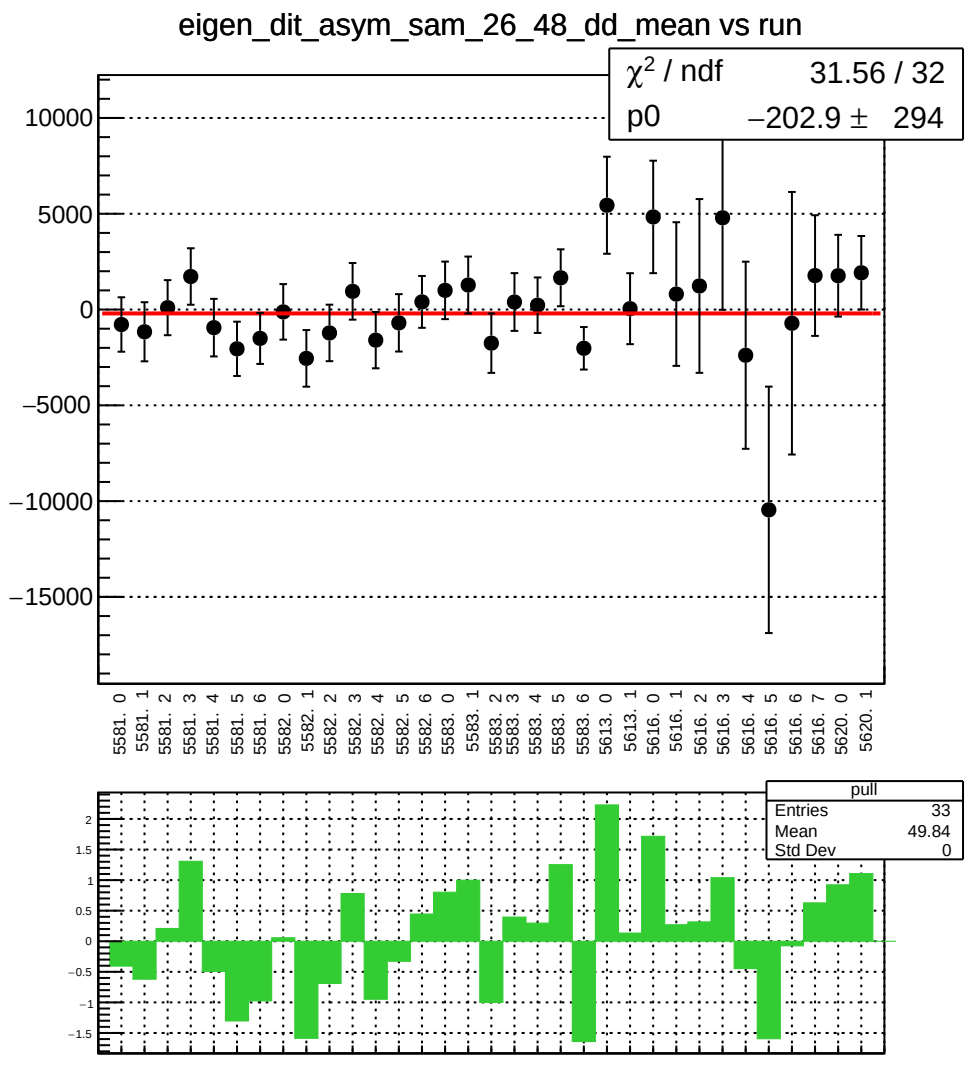

pull1D
Entries 33
Mean 0.08473
Std Dev 0.9743
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

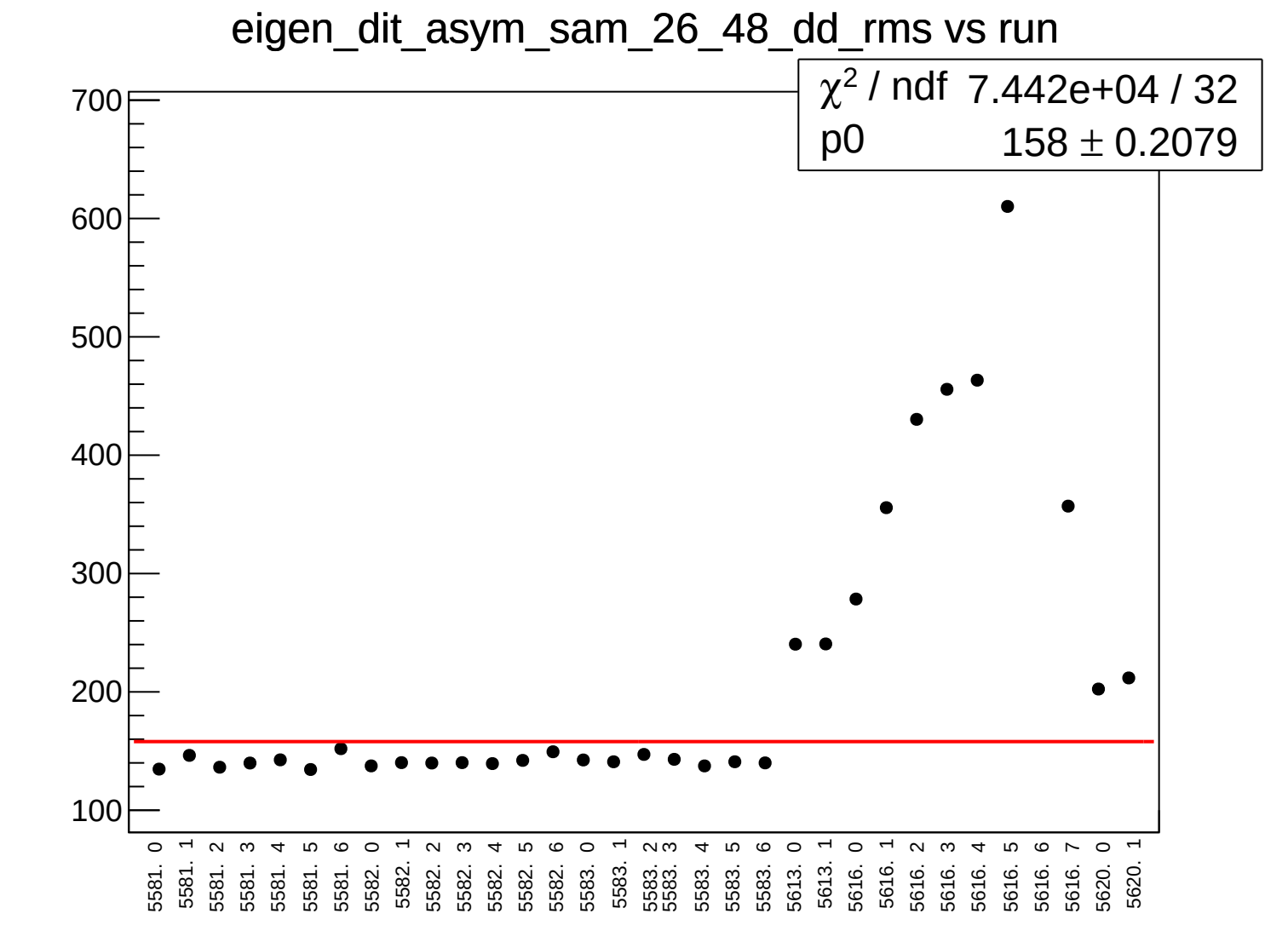

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 7.442e+04 / 32
p0 158 ± 0.2079
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

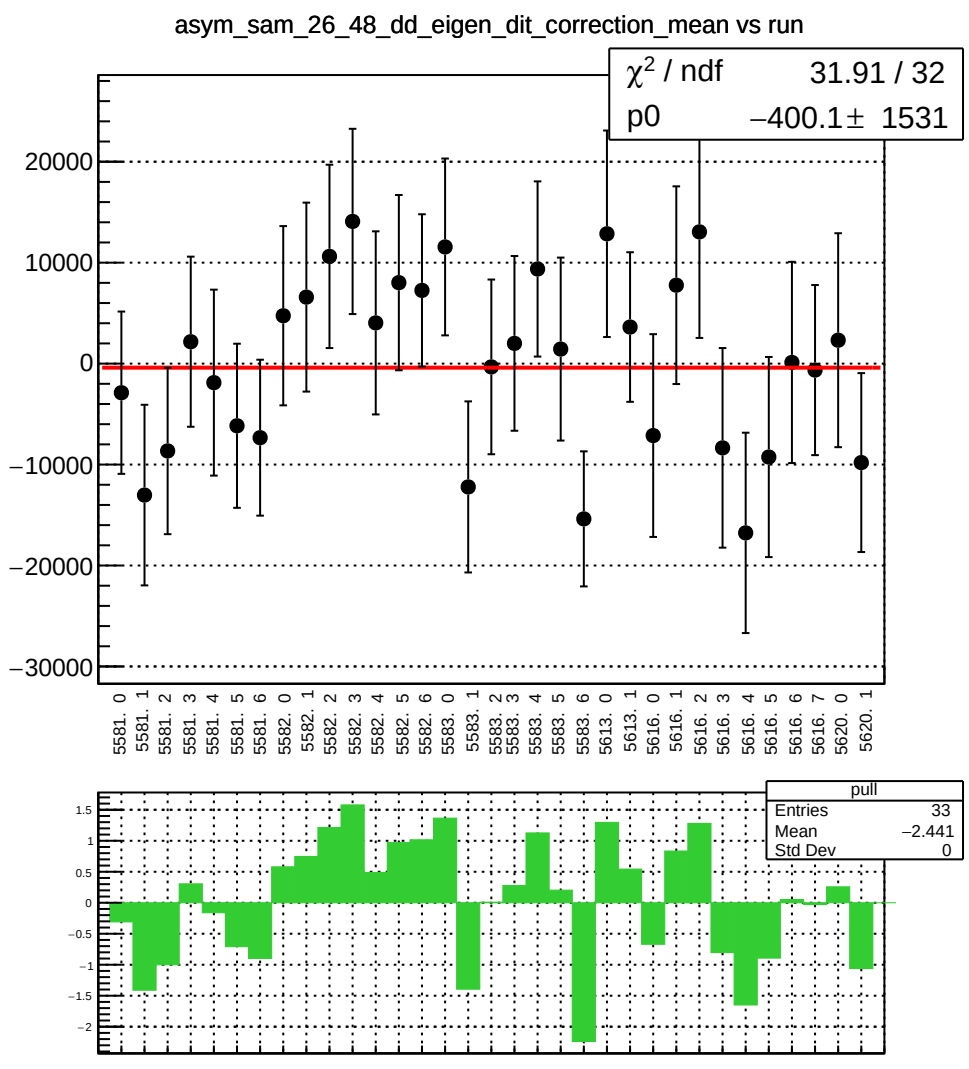

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 31.91 / 32
p0 −400.1± 1531
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

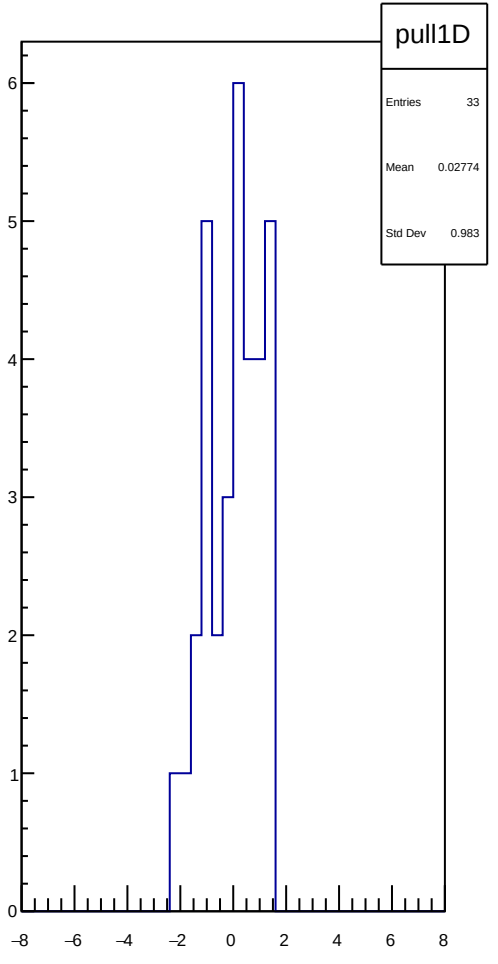

pull1D
Entries 33
Mean 0.02774
Std Dev 0.983
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

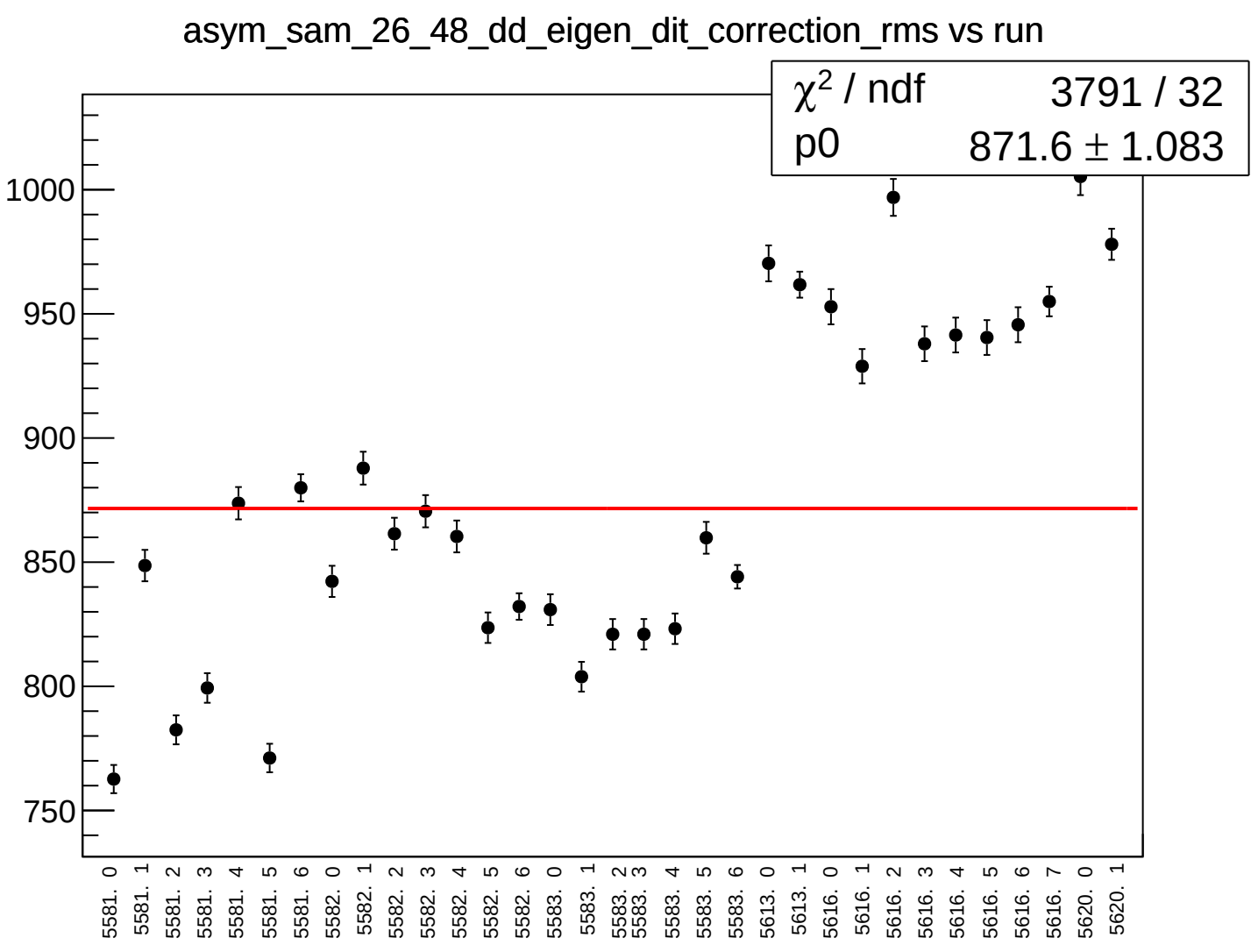

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 3791 / 32
p0 871.6 ± 1.083
1000
950
900
850
800
750
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

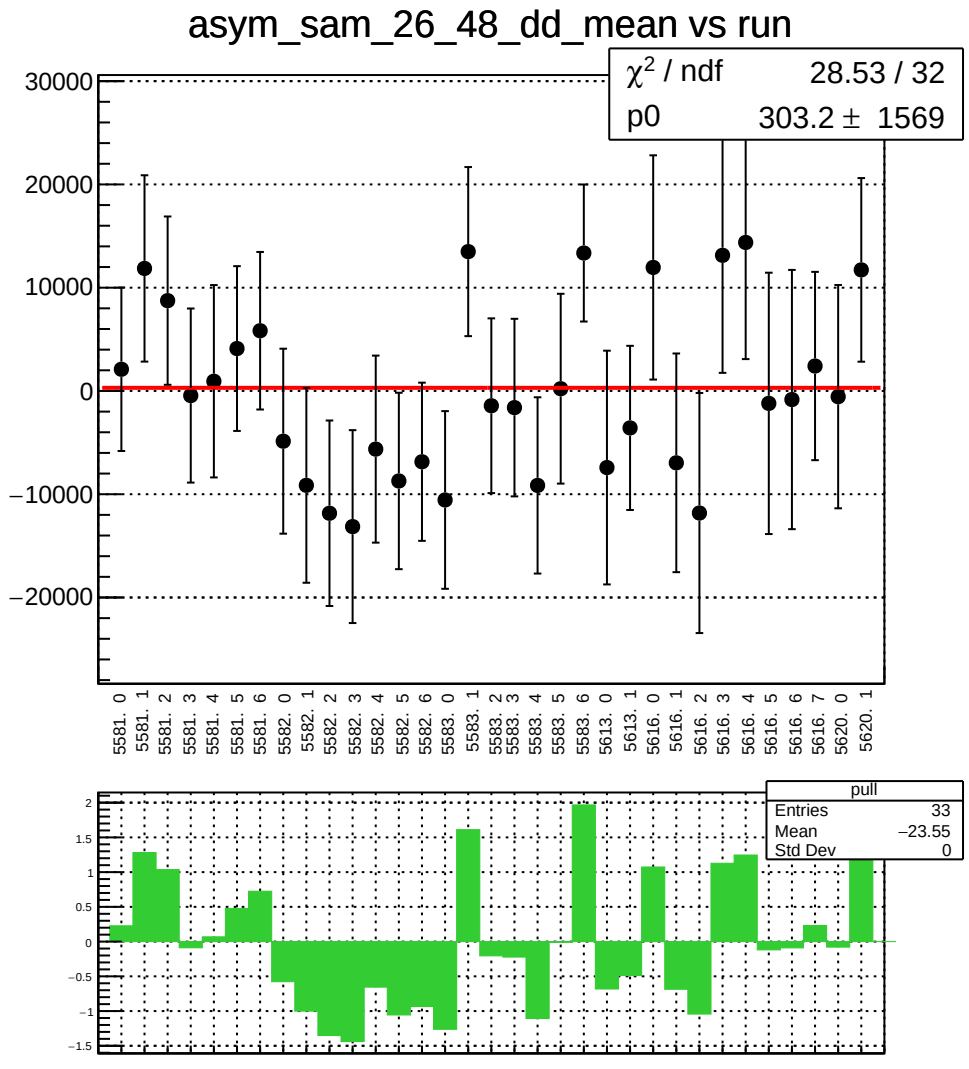

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 31.56 / 32
p0 −202.9 ± 294
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 49.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.08473
Std Dev 0.9743
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

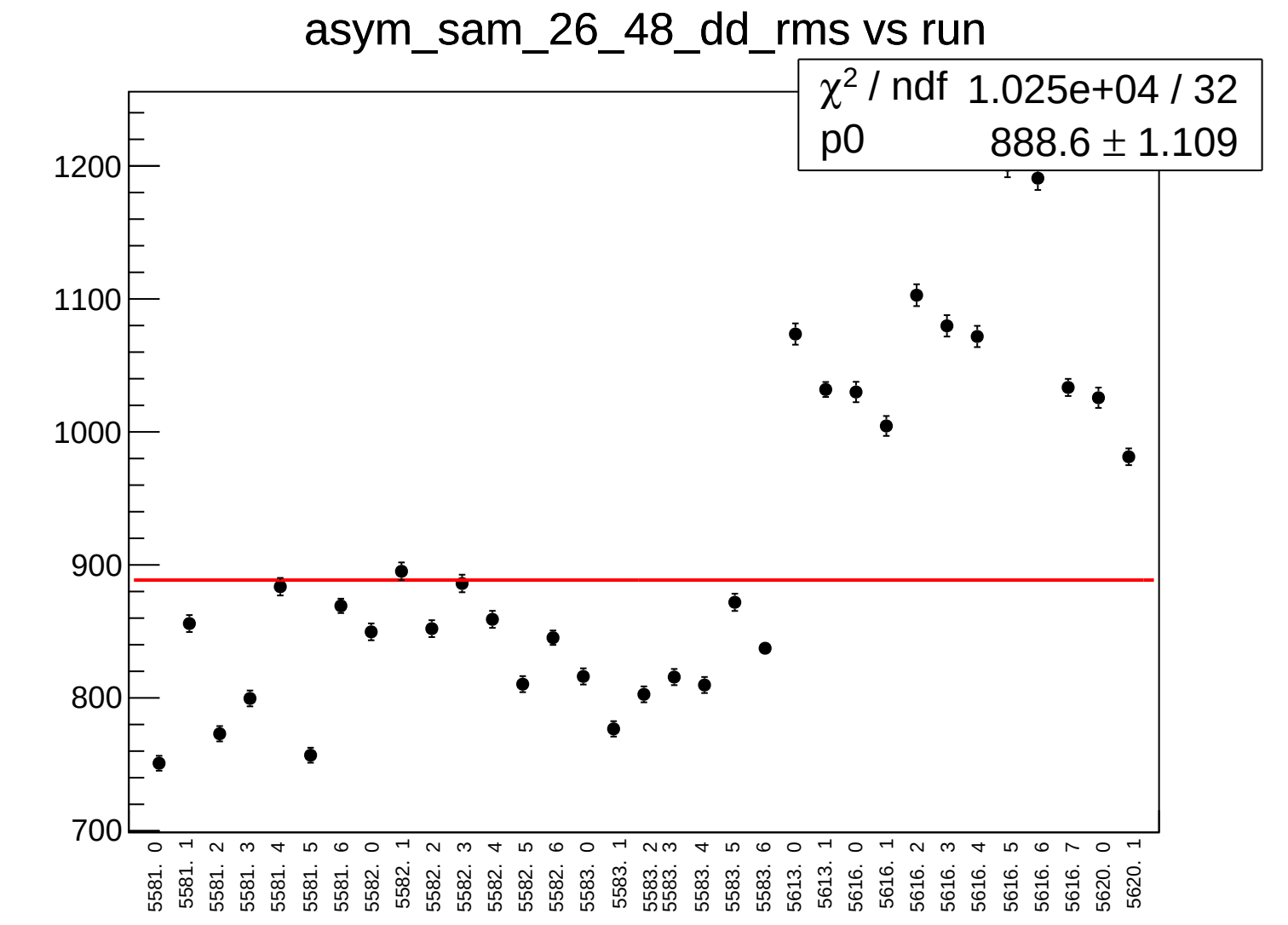

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 7.442e+04 / 32
p0 158 ± 0.2079
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

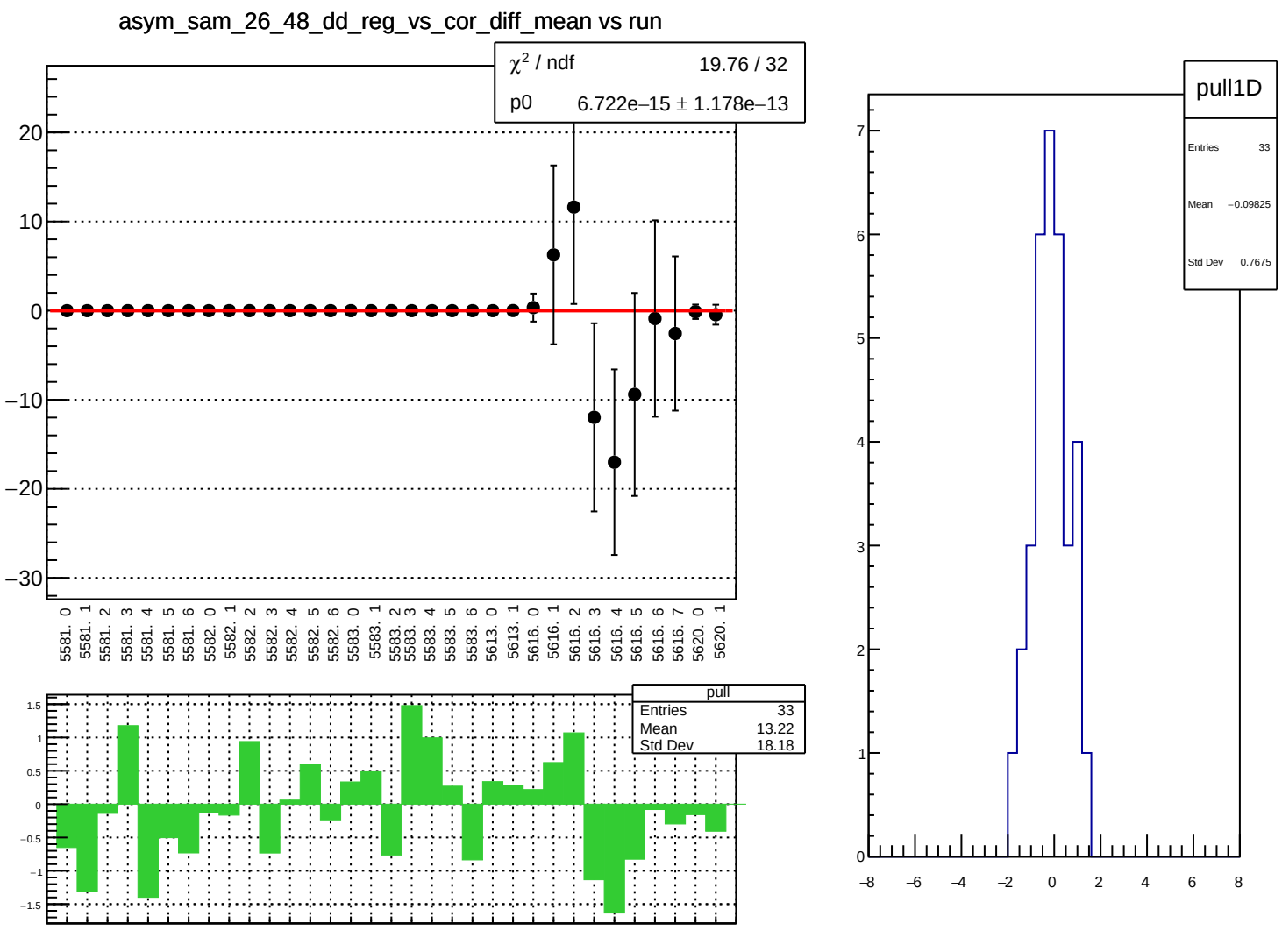

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 31.91 / 32
p0 −400.1± 1531
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2.441
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

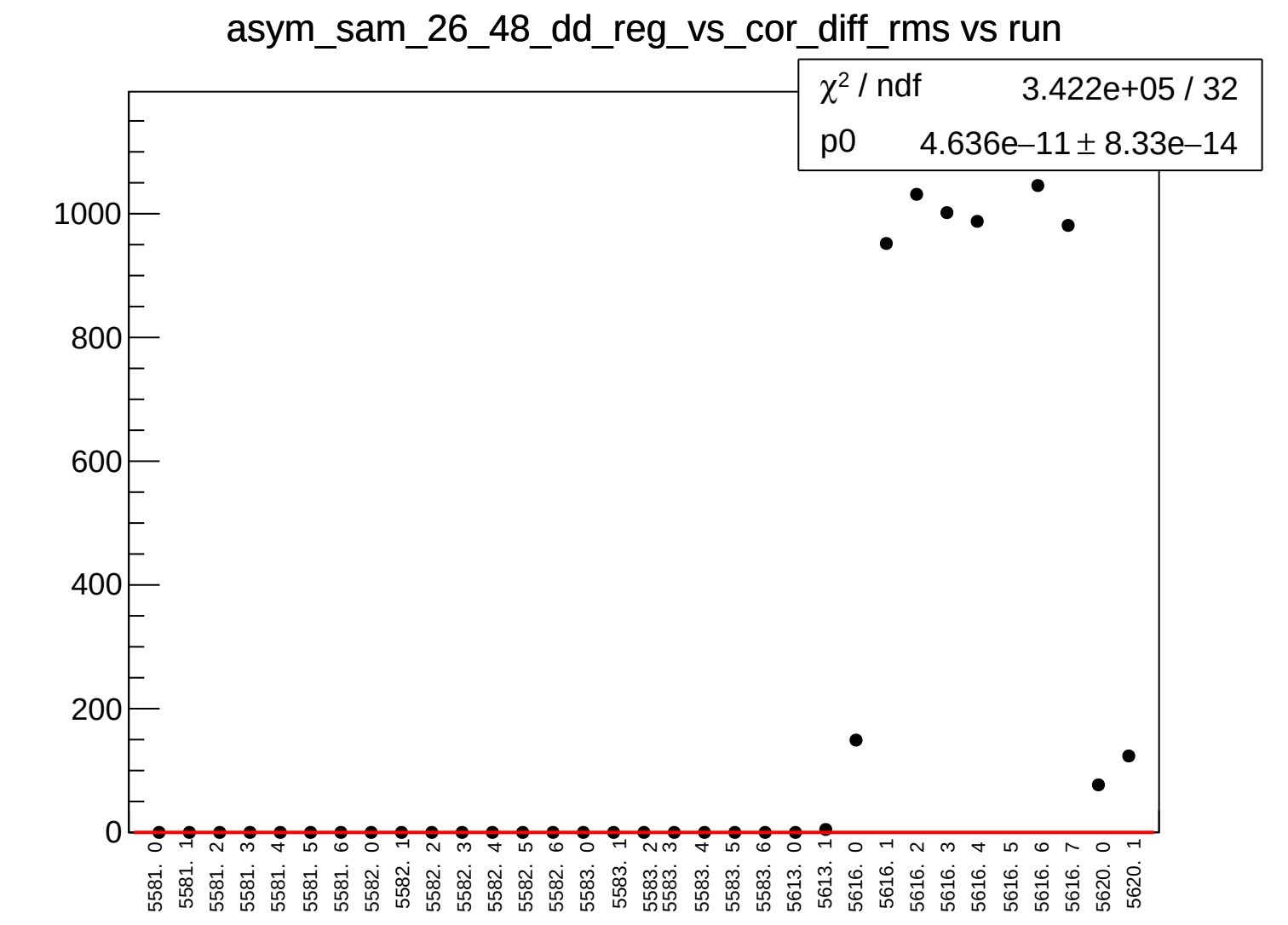

pull1D
Entries 33
Mean 0.02774
Std Dev 0.983
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

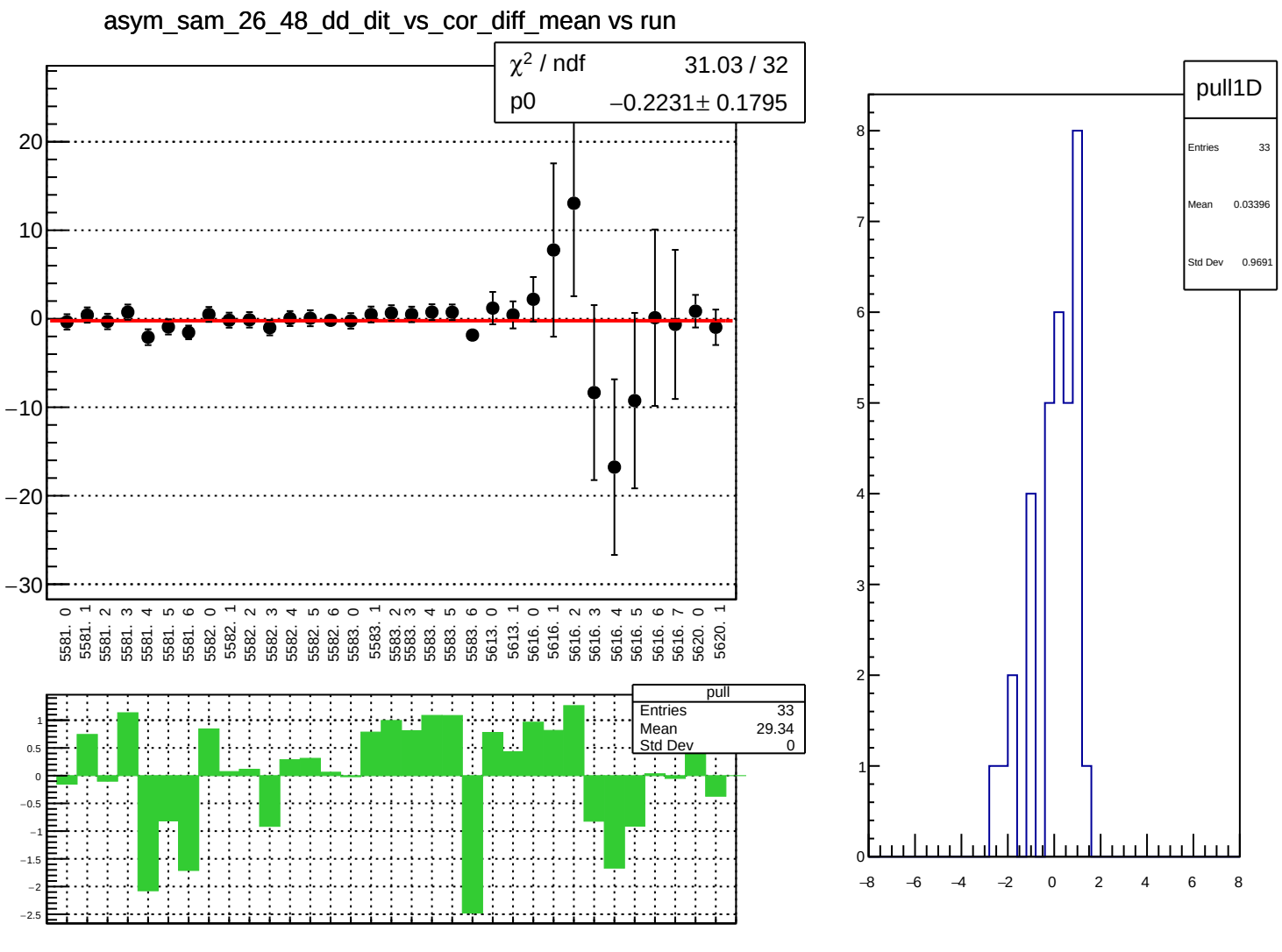

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3791 / 32
p0 871.6 ± 1.083
1000
950
900
850
800
750
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

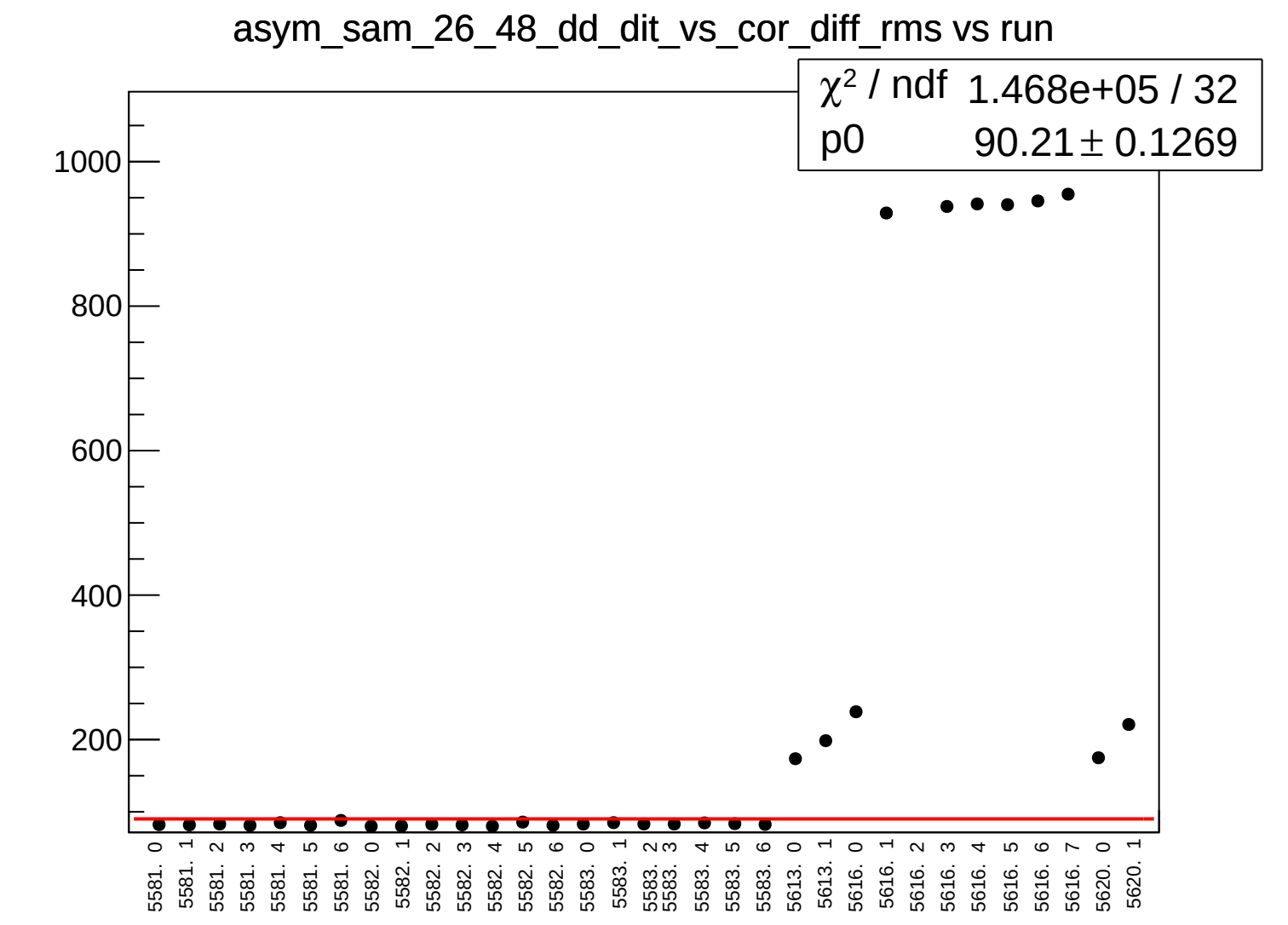

asym_sam_26_48_dd_mean vs run
χ² / ndf 28.53 / 32
p0 303.2 ± 1569
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −23.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.02246
Std Dev 0.9296
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

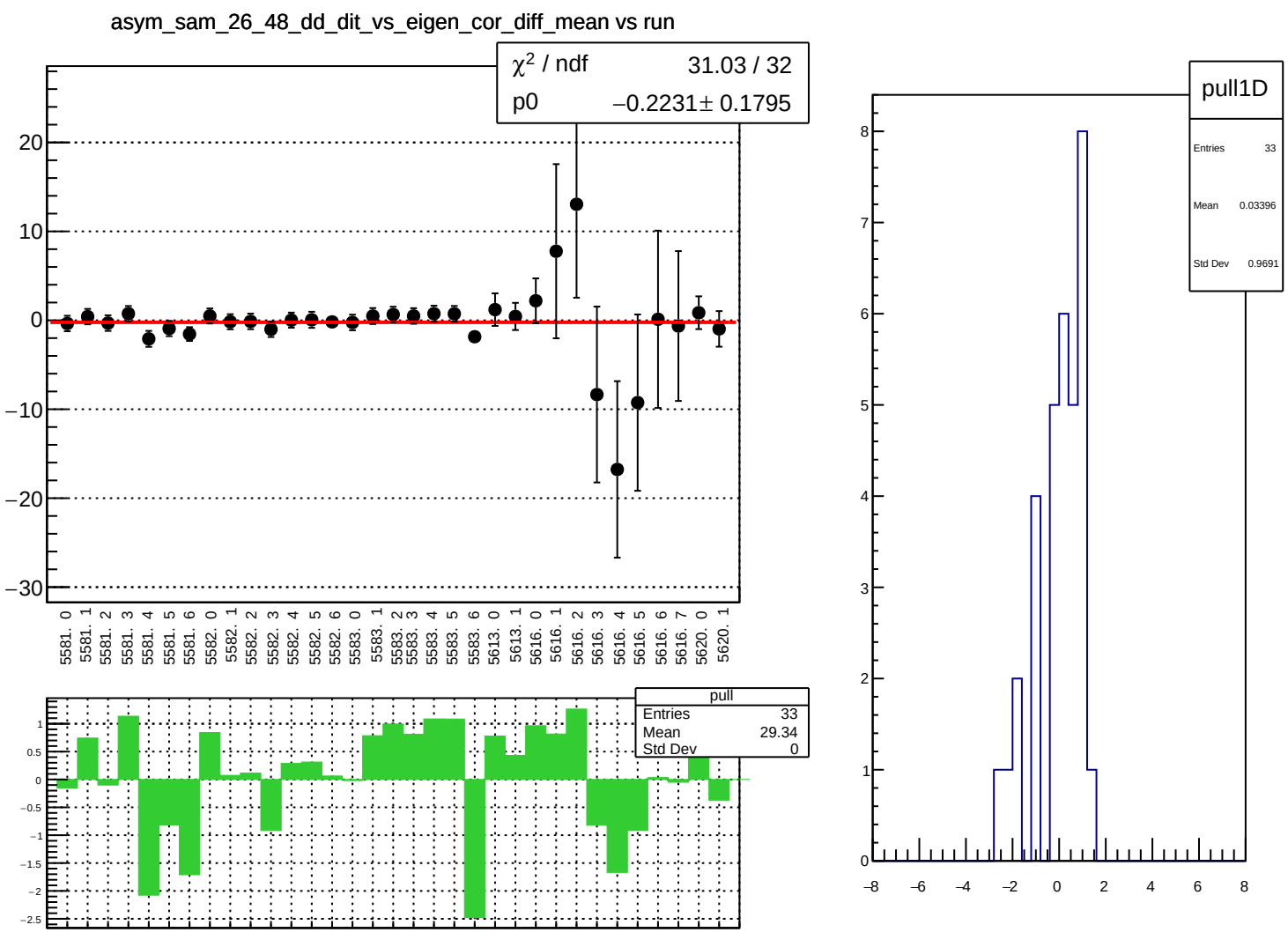

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.025e+04 / 32
p0 888.6 ± 1.109
1200
1100
1000
900
800
700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

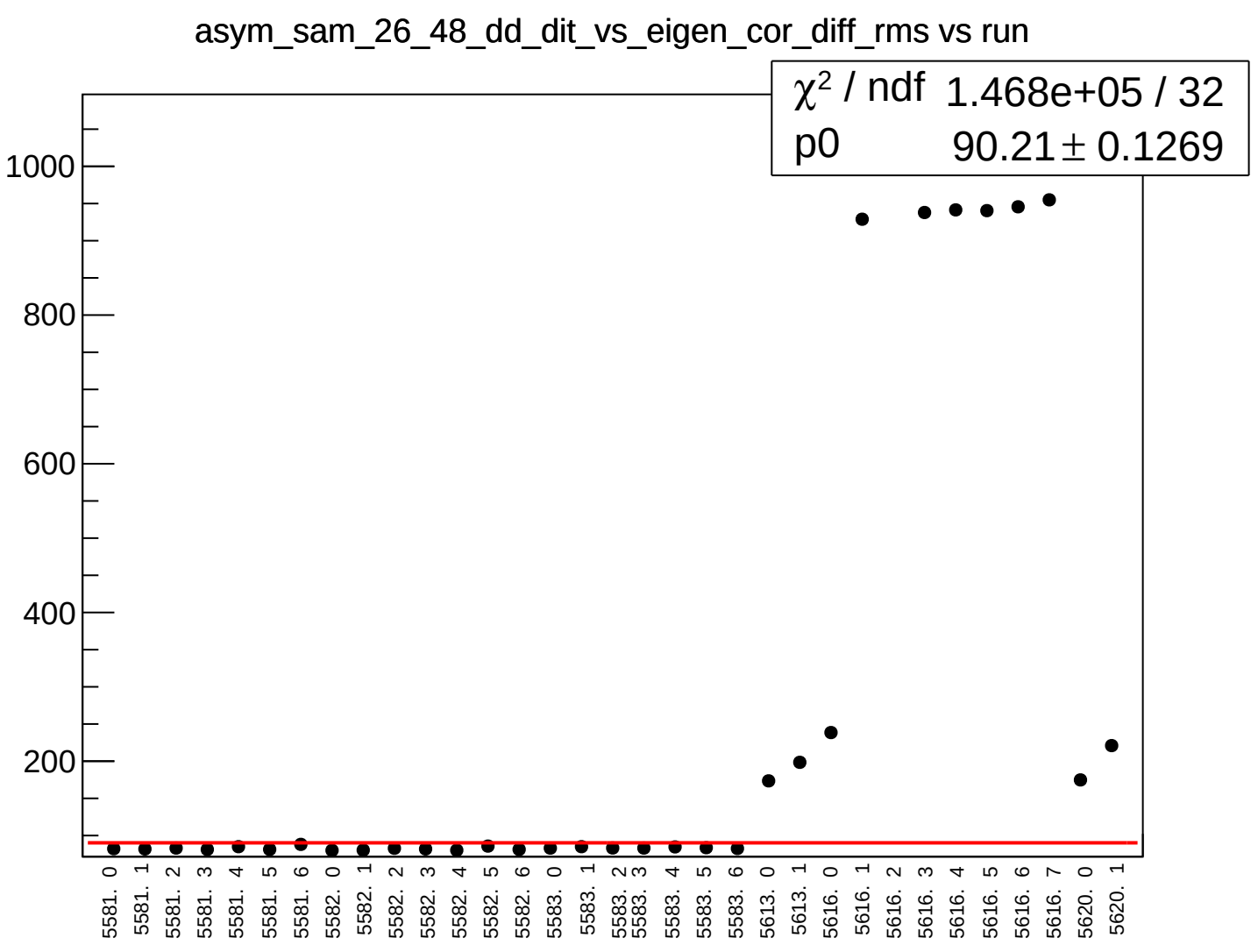

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 19.76 / 32
p0 6.722e−15 ± 1.178e−13
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 13.22
Std Dev 18.18
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.09825
Std Dev 0.7675
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

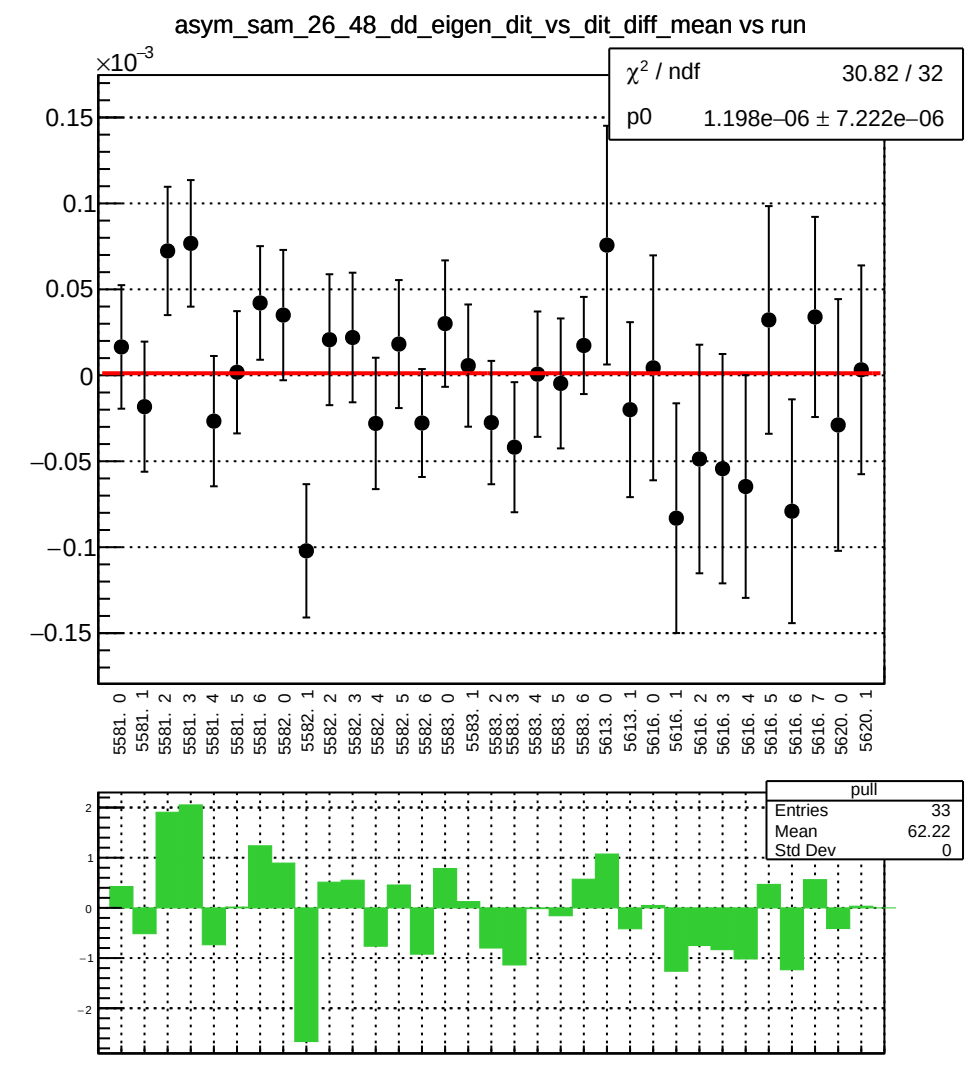

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.422e+05 / 32
p0 4.636e−11 ± 8.33e−14
0
200
400
600
800
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

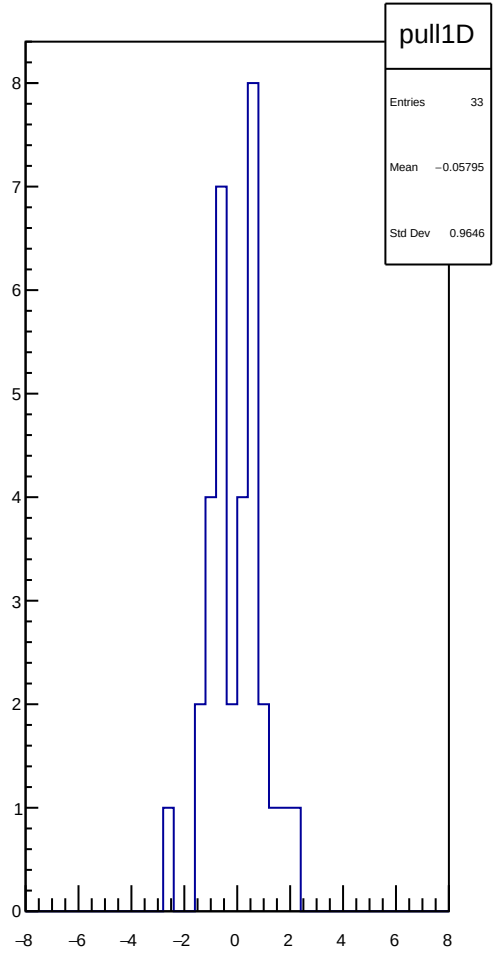

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 31.03 / 32
p0 −0.2231± 0.1795
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.34
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.03396
Std Dev 0.9691
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

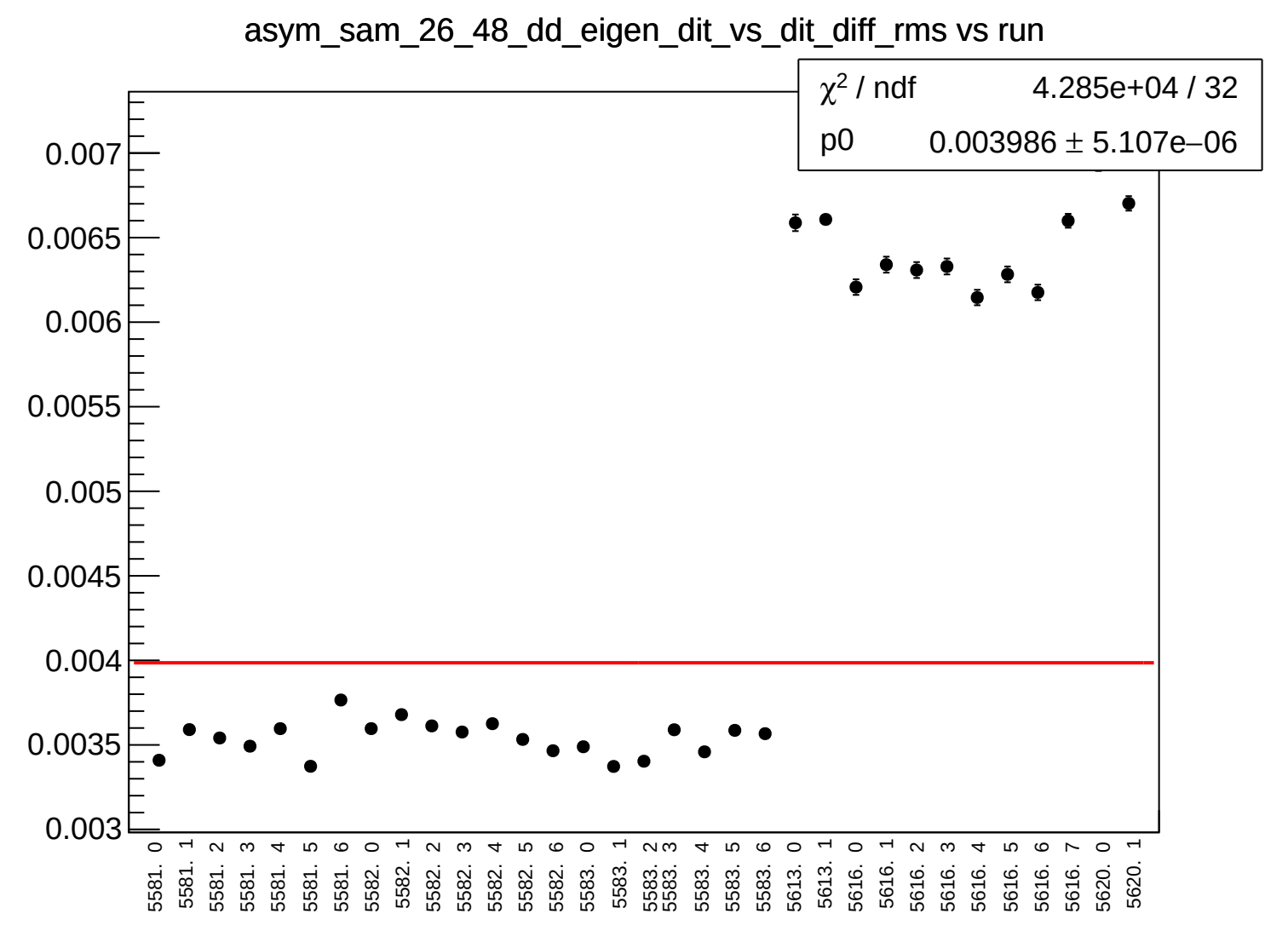

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.468e+05 / 32
p0 90.21 ± 0.1269
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

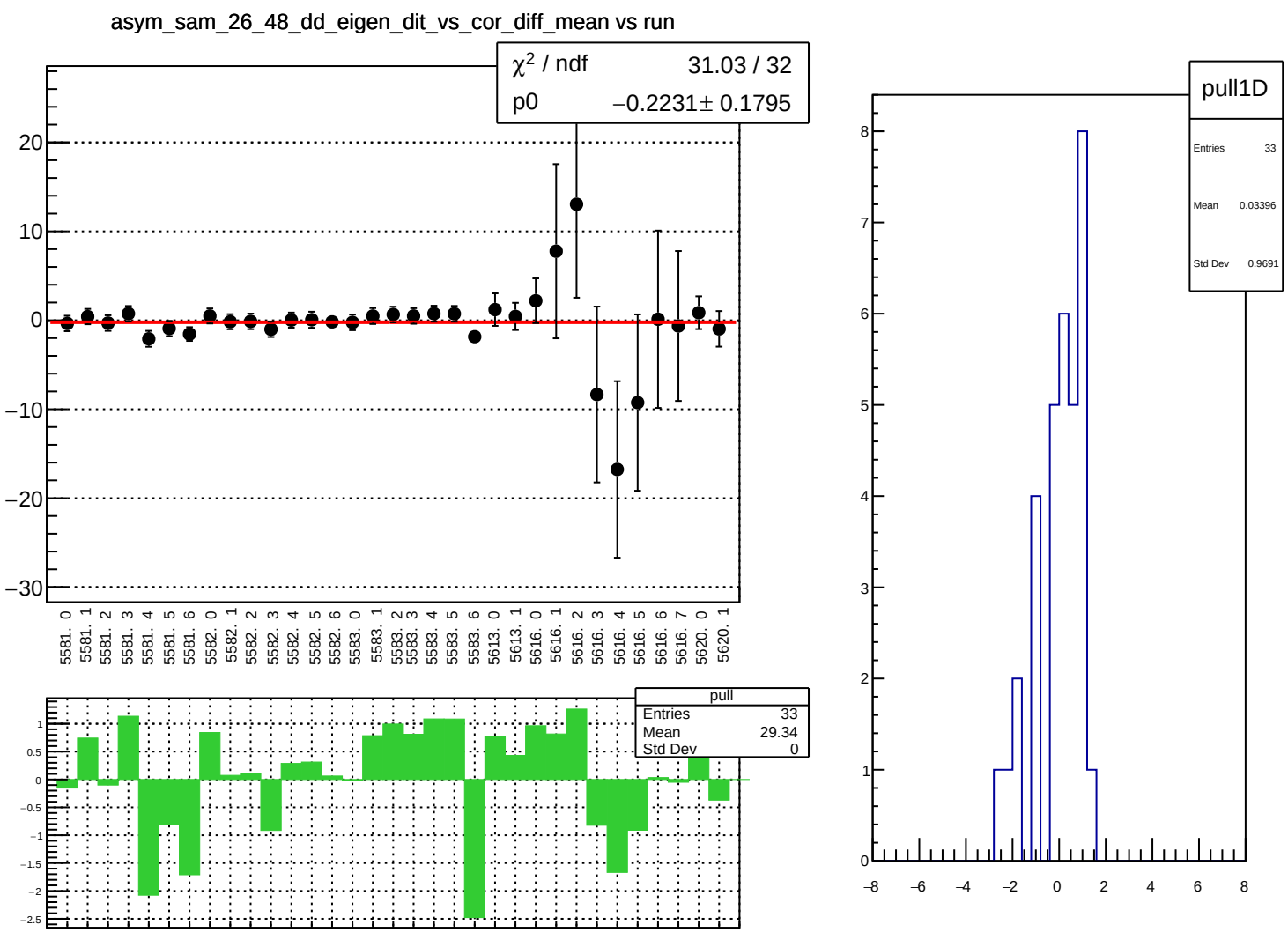

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.03 / 32
p0 −0.2231± 0.1795
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.34
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.03396
Std Dev 0.9691
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

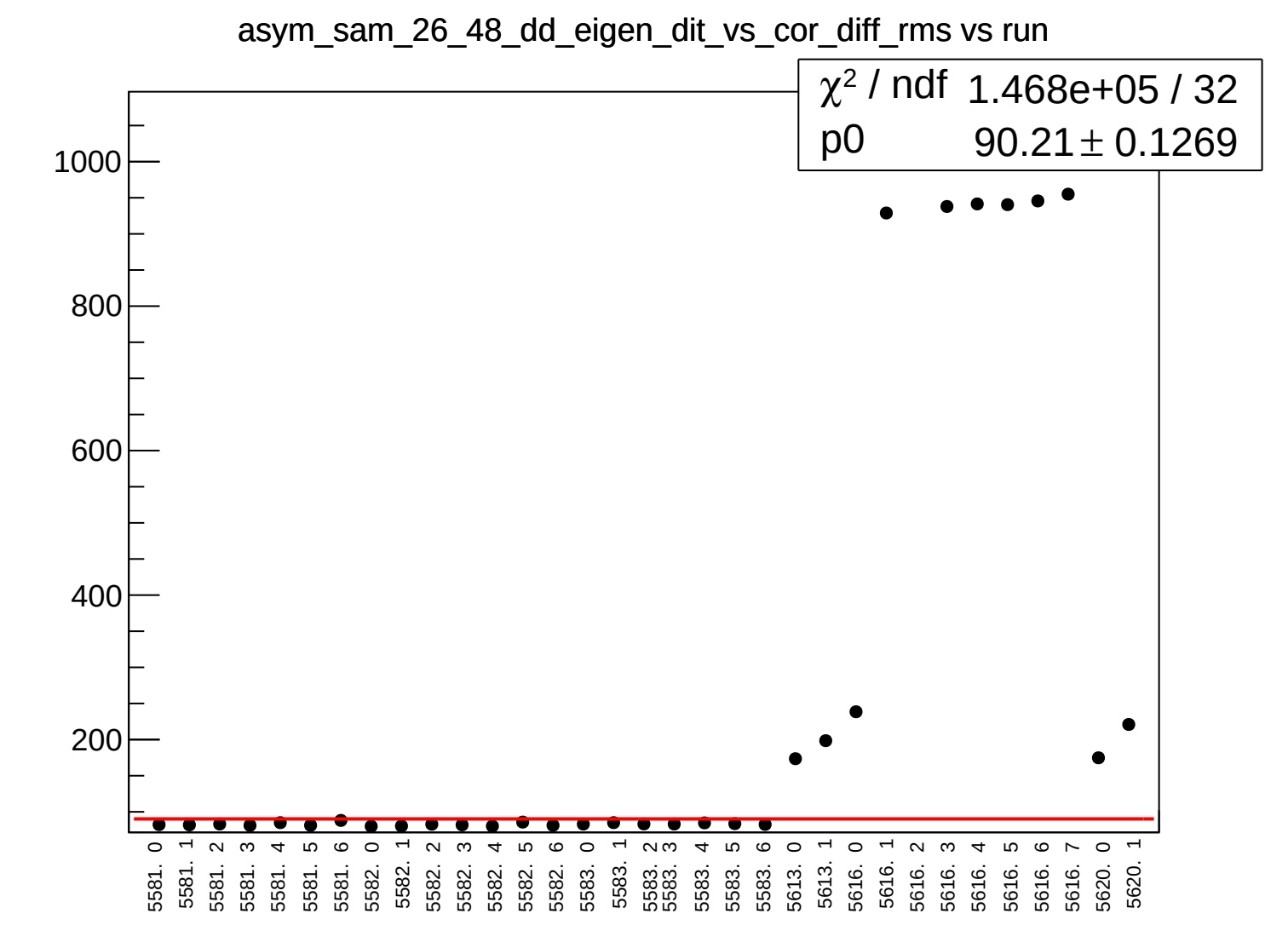

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.468e+05 / 32
p0 90.21 ± 0.1269
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1


asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.82 / 32
p0 1.198e−06 ± 7.222e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 62.22
Std Dev 0
2
1
0
−1
−2

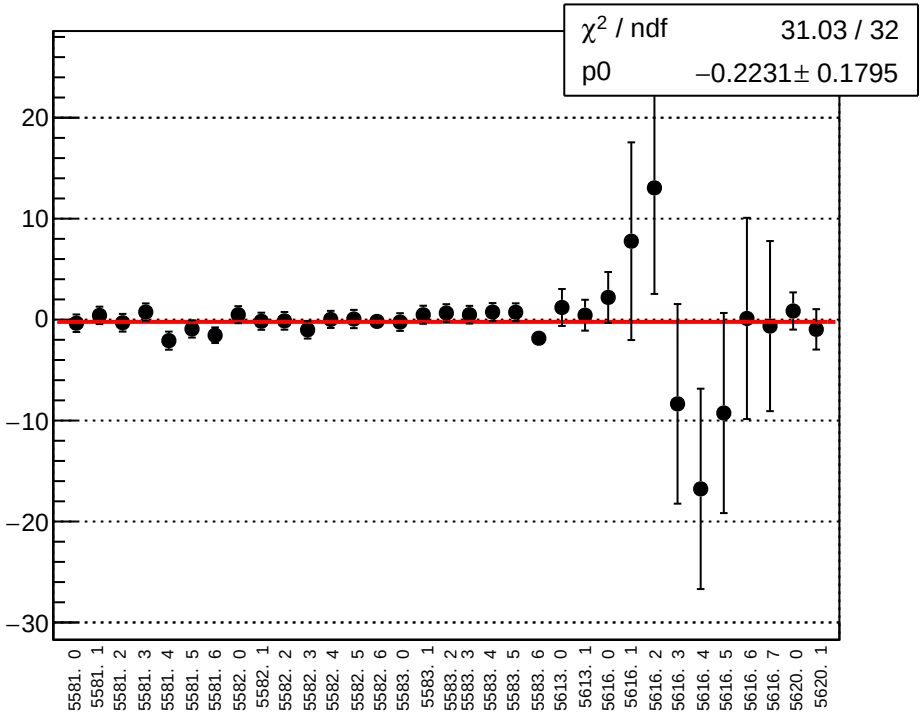

pull1D
Entries 33
Mean −0.05795
Std Dev 0.9646
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

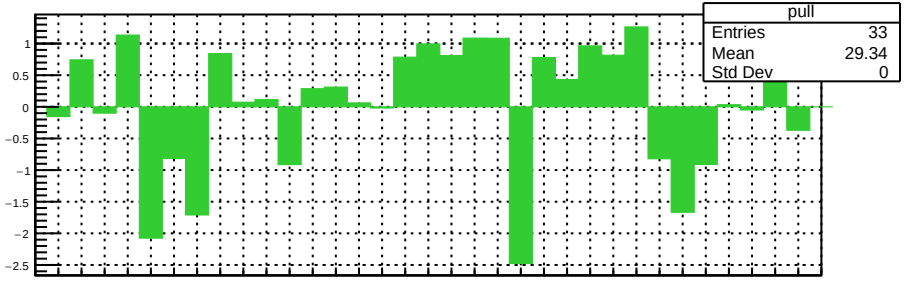

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.285e+04 / 32
p0 0.003986 ± 5.107e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

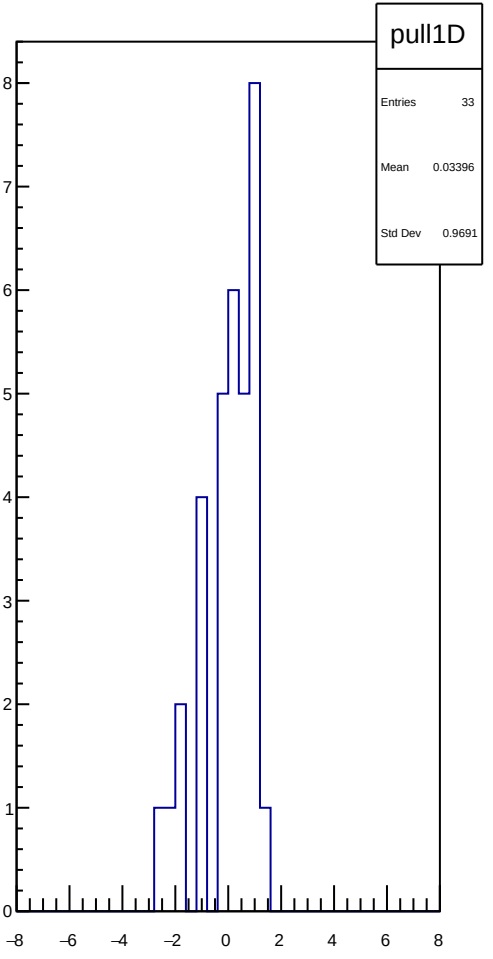

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.03 / 32
p0 −0.2231± 0.1795
pull
Entries 33
Mean 29.34
Std Dev 0
pull1D
Entries 33
Mean 0.03396
Std Dev 0.9691

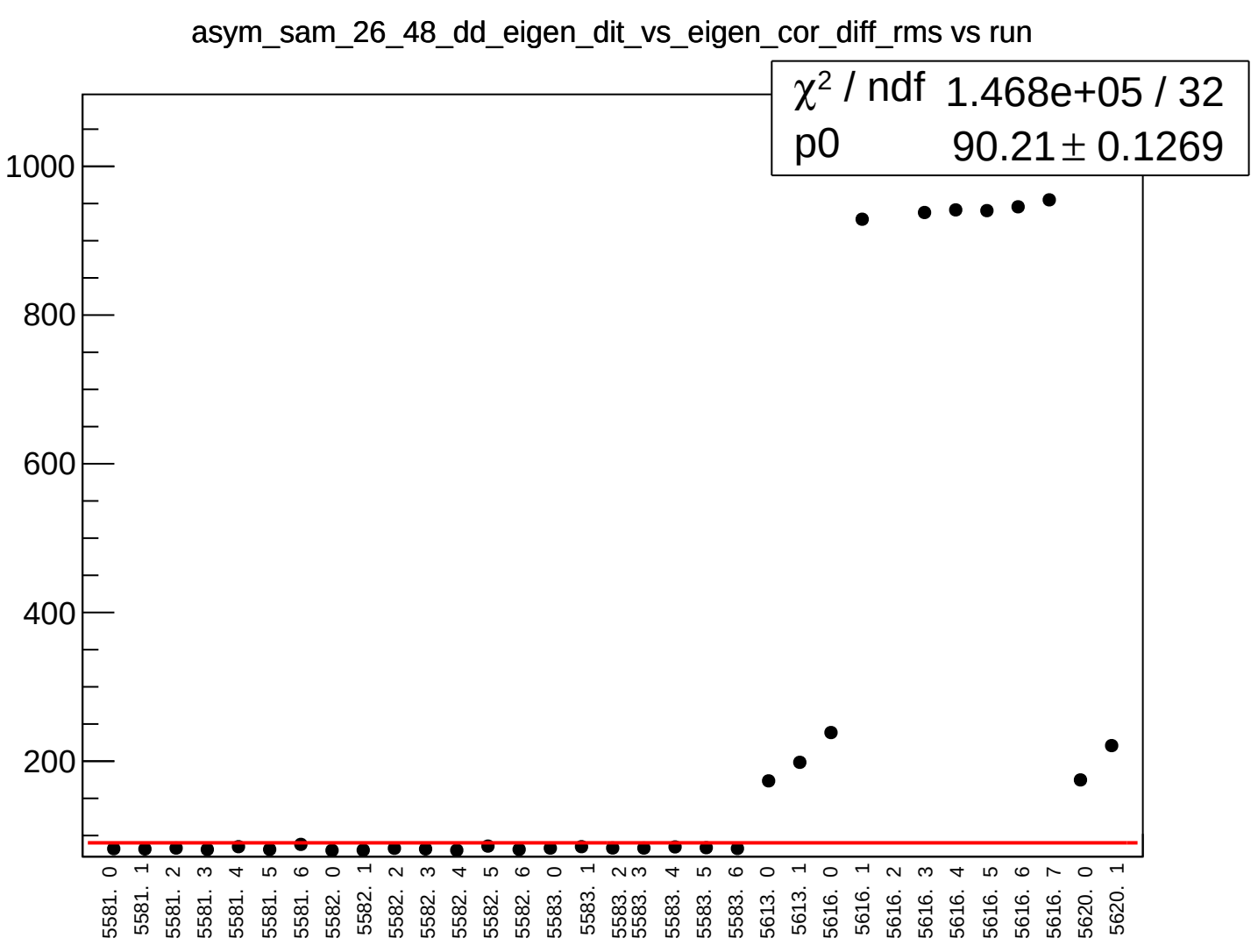

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.468e+05 / 32
p0 90.21 ± 0.1269
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

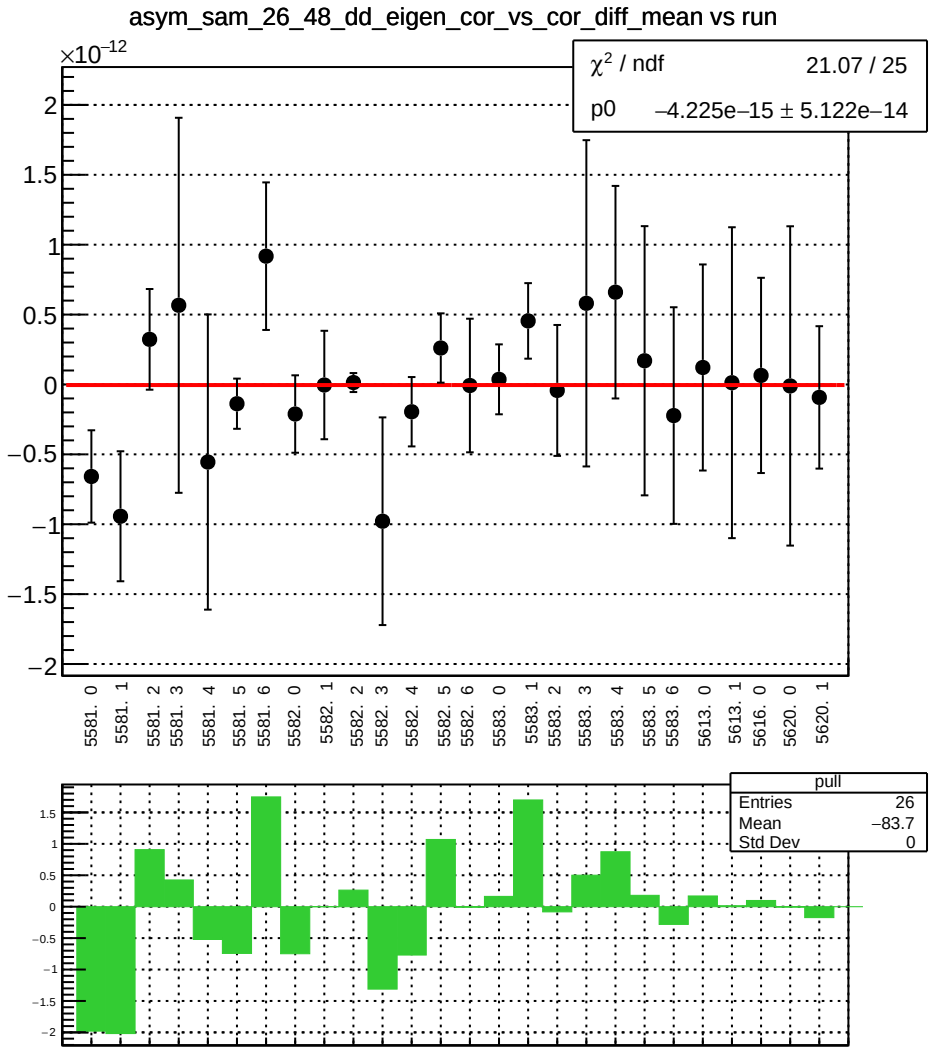
asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

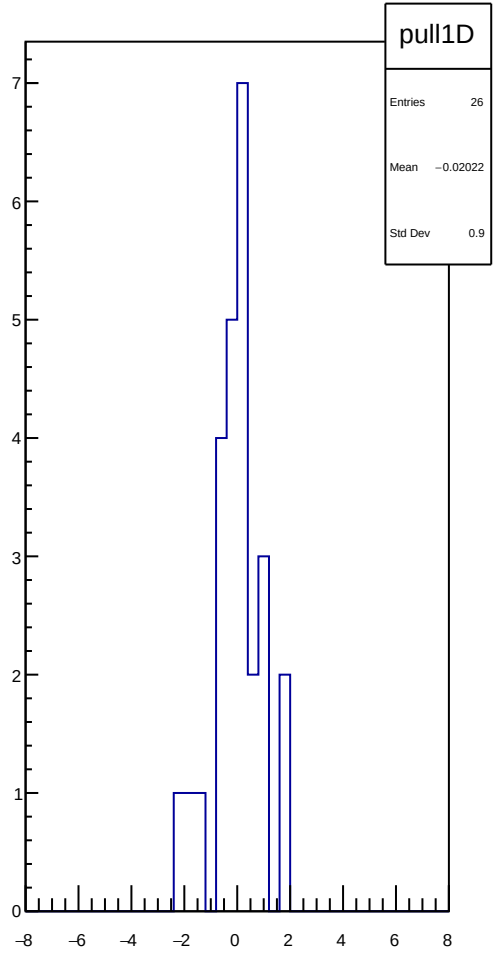


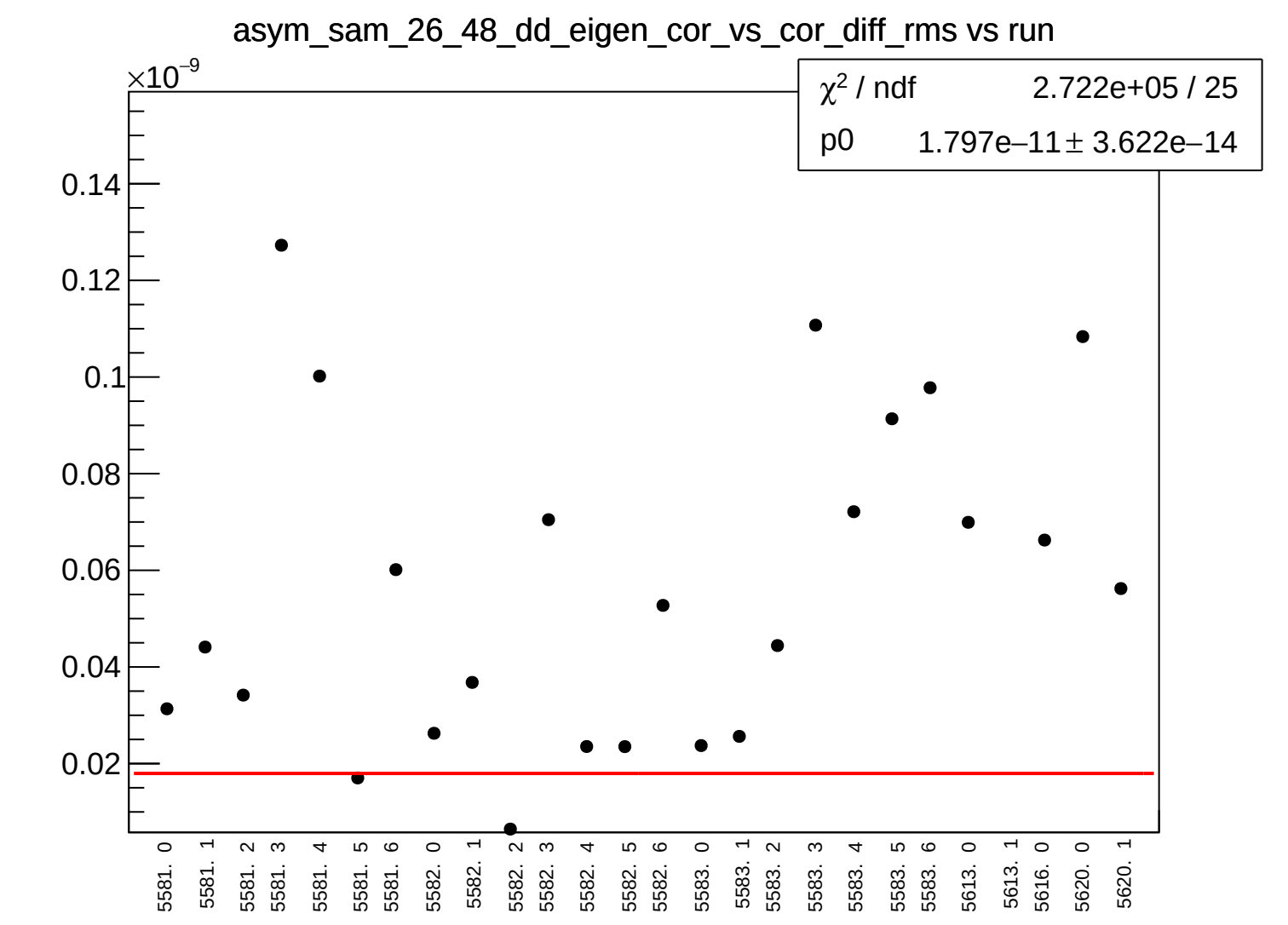


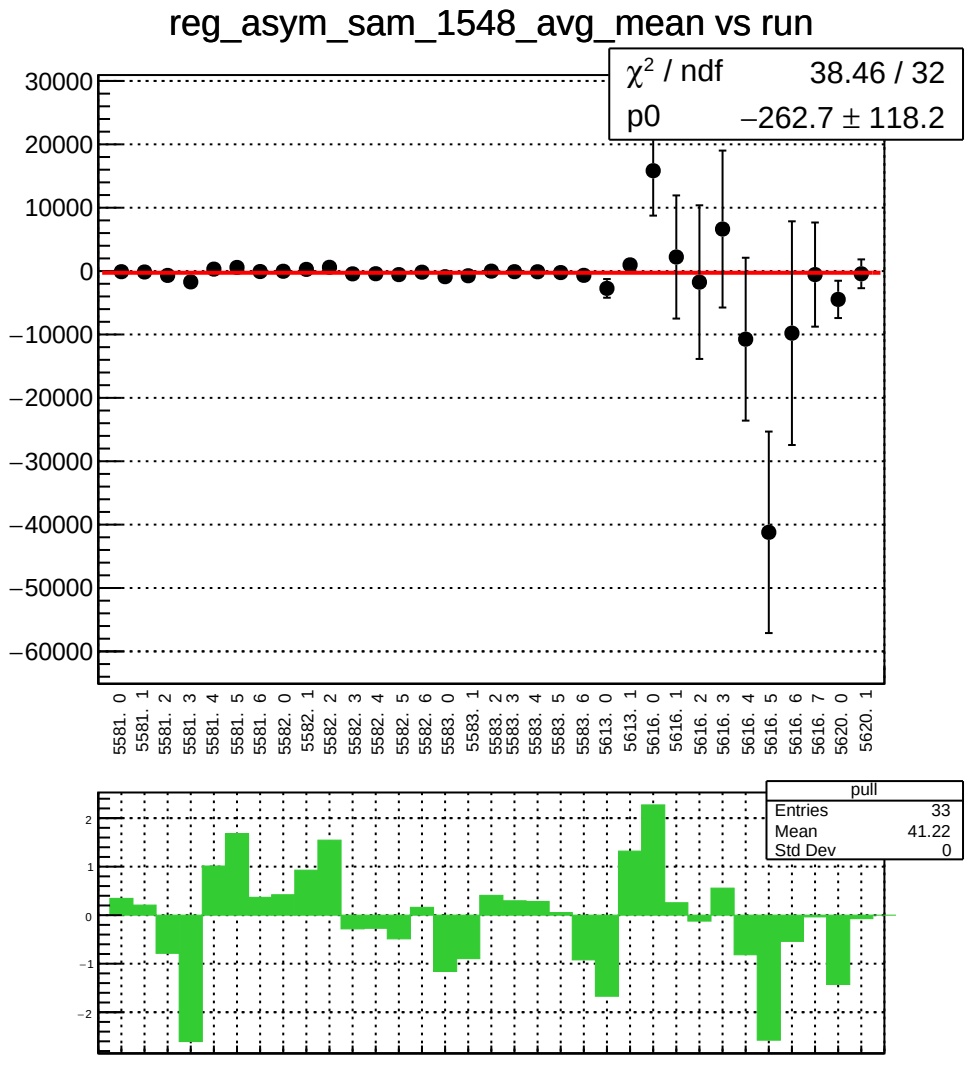


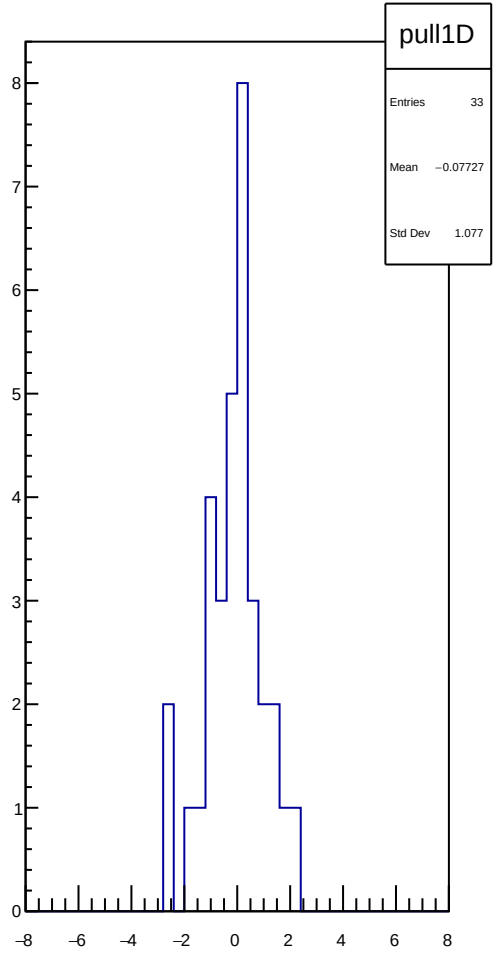

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.468e+05 / 32
p0 90.21 ± 0.1269
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

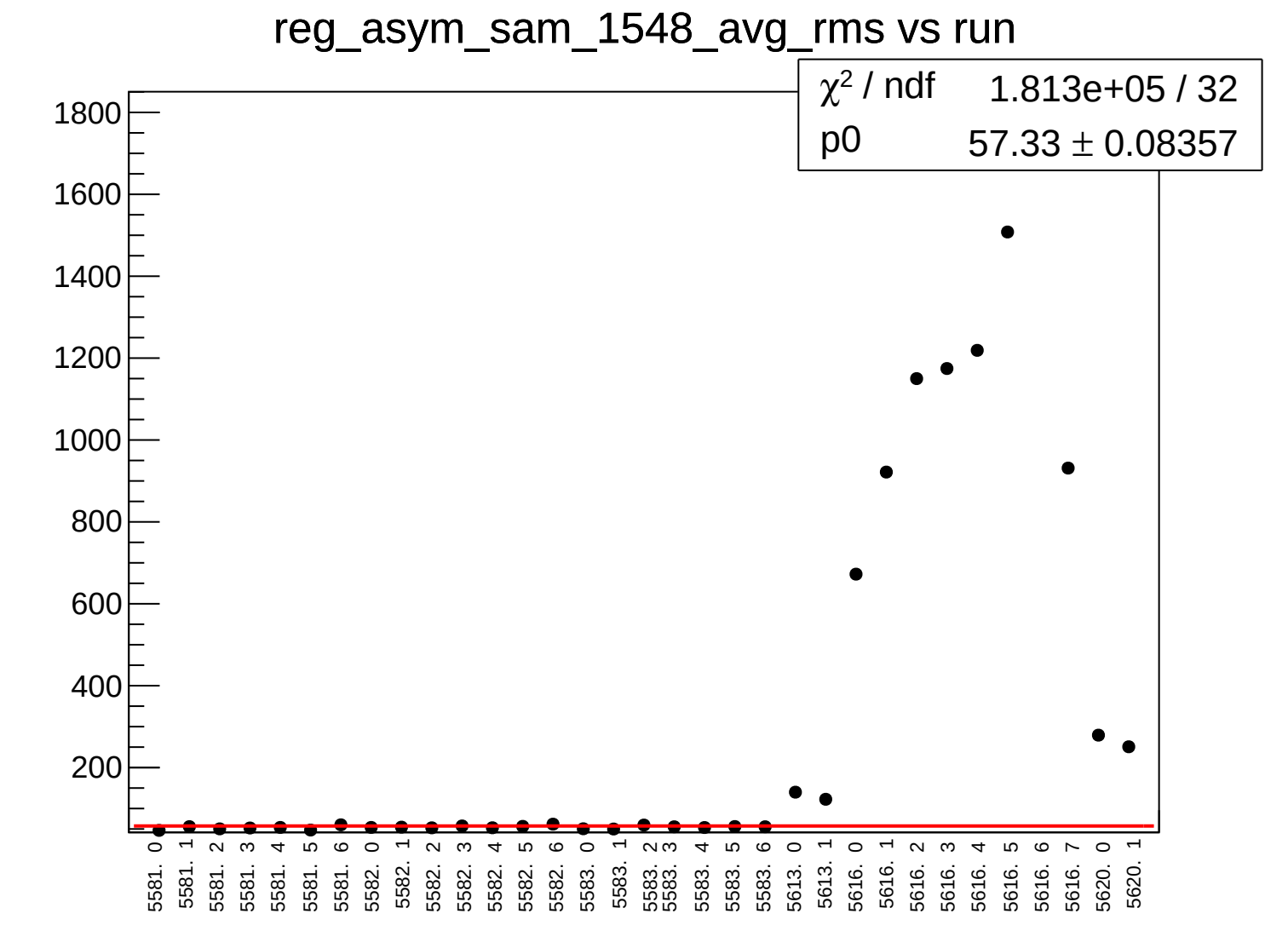

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 21.07 / 25
p0 −4.225e−15 ± 5.122e−14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −83.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

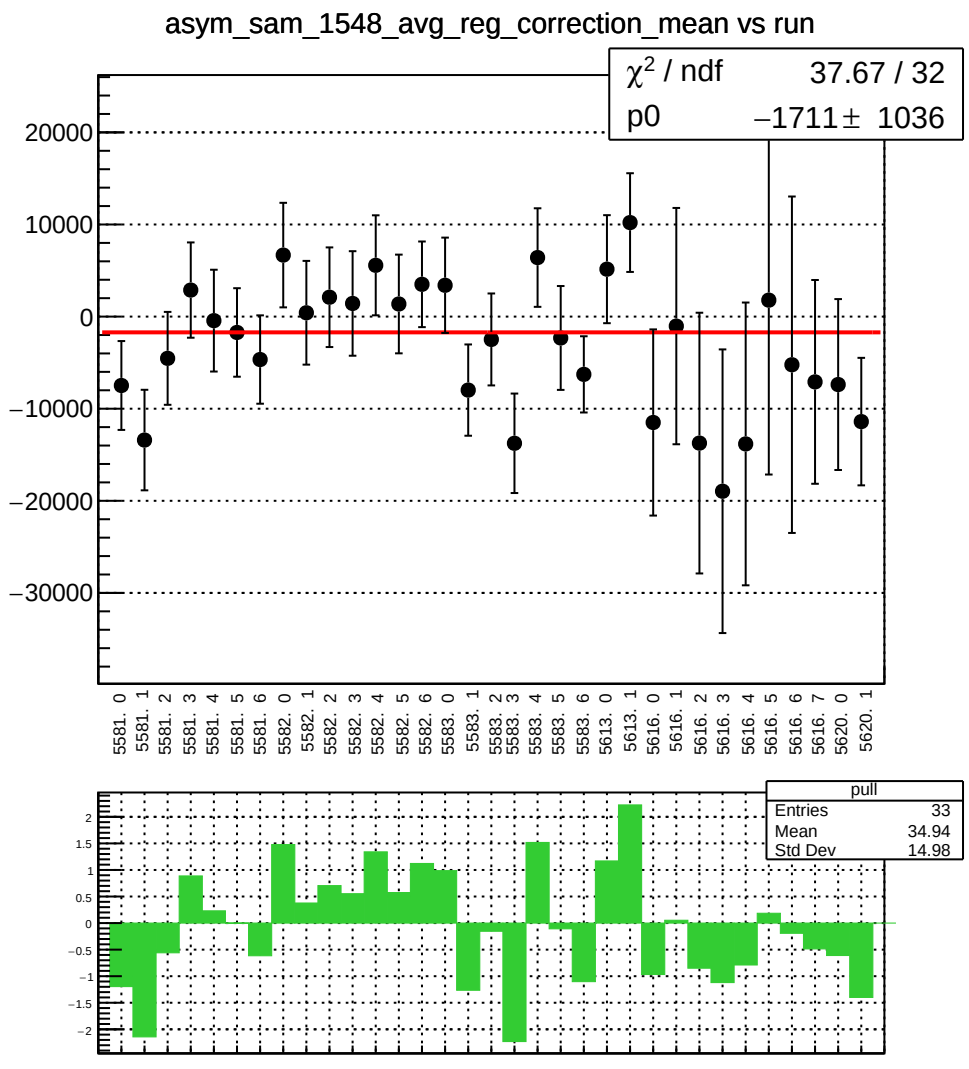

pull1D
Entries 26
Mean −0.02022
Std Dev 0.9
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

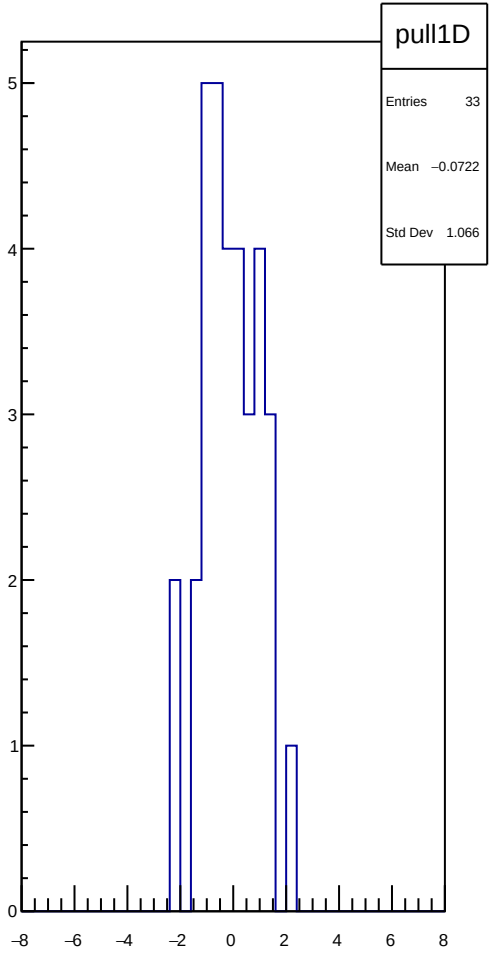

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.722e+05 / 25
p0 1.797e−11 ± 3.622e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

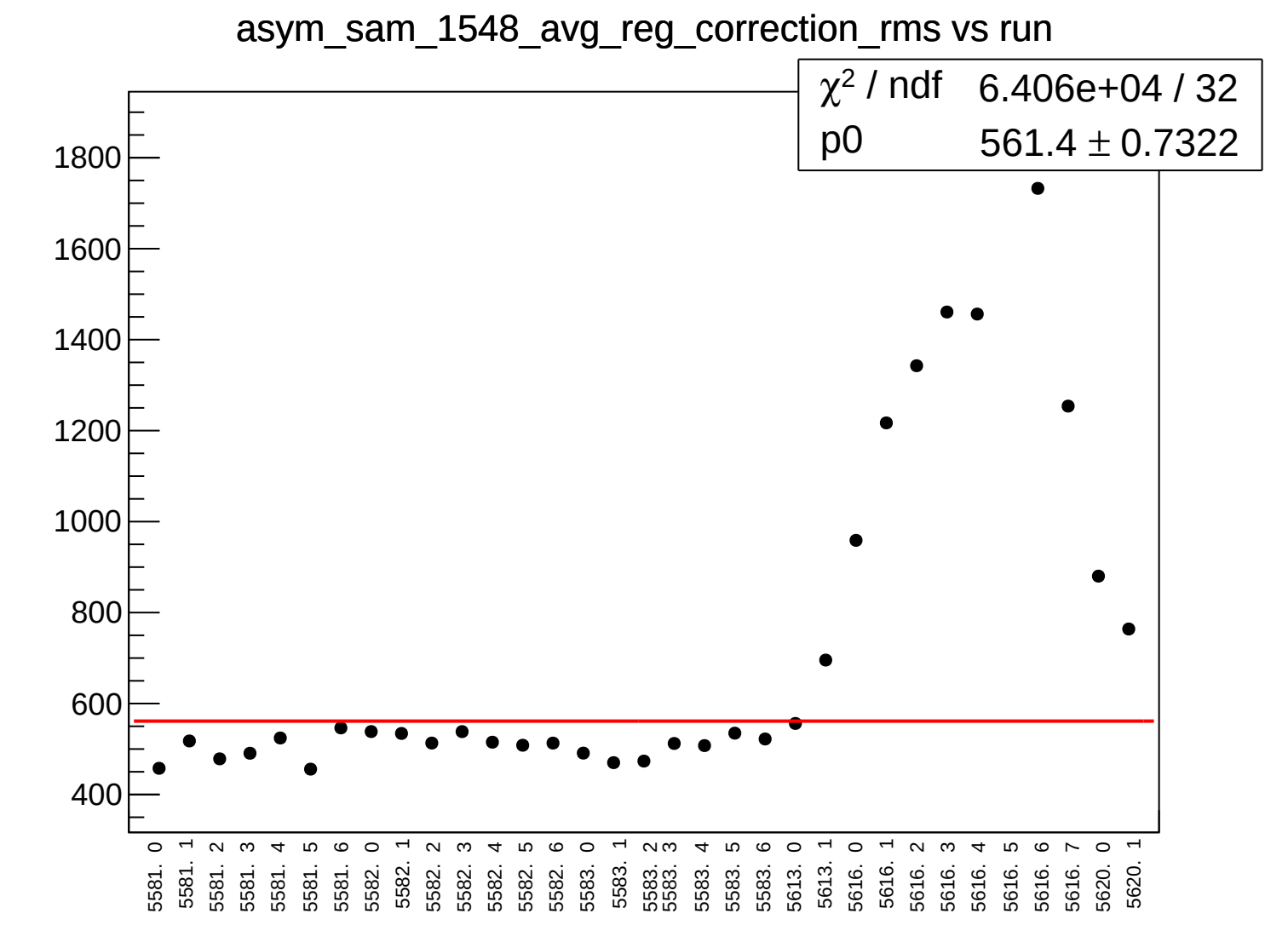

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 38.46 / 32
p0 −262.7 ± 118.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 41.22
Std Dev 0
2
1
0
−1
−2

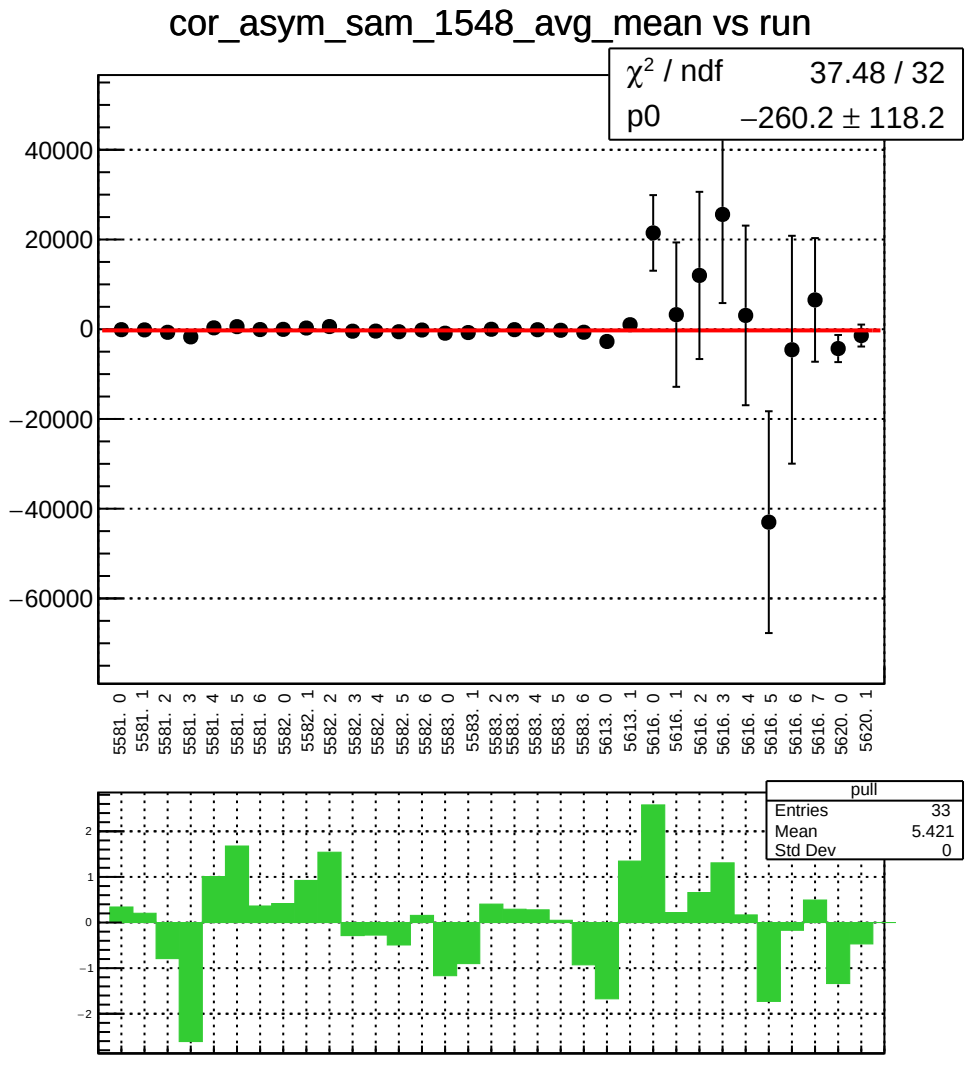

pull1D
Entries 33
Mean −0.07727
Std Dev 1.077
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

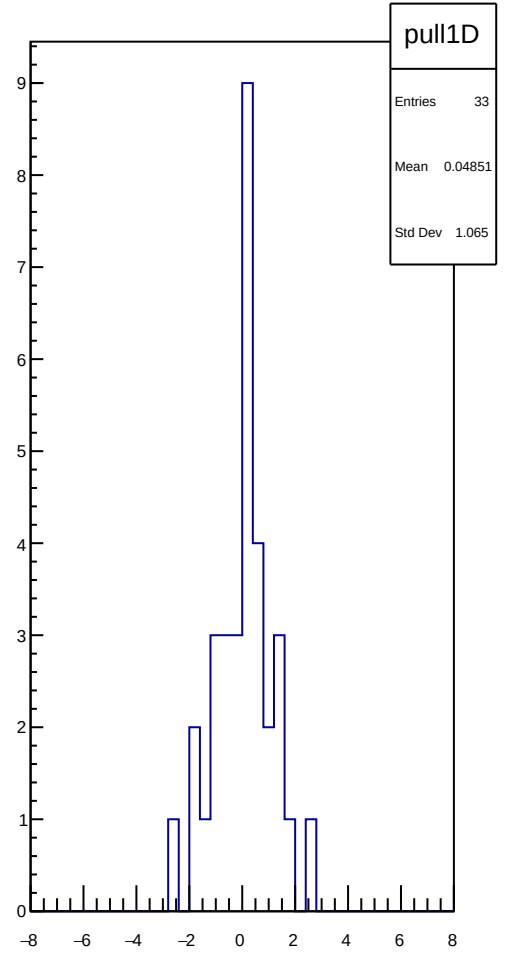

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1.813e+05 / 32
p0 57.33 ± 0.08357
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

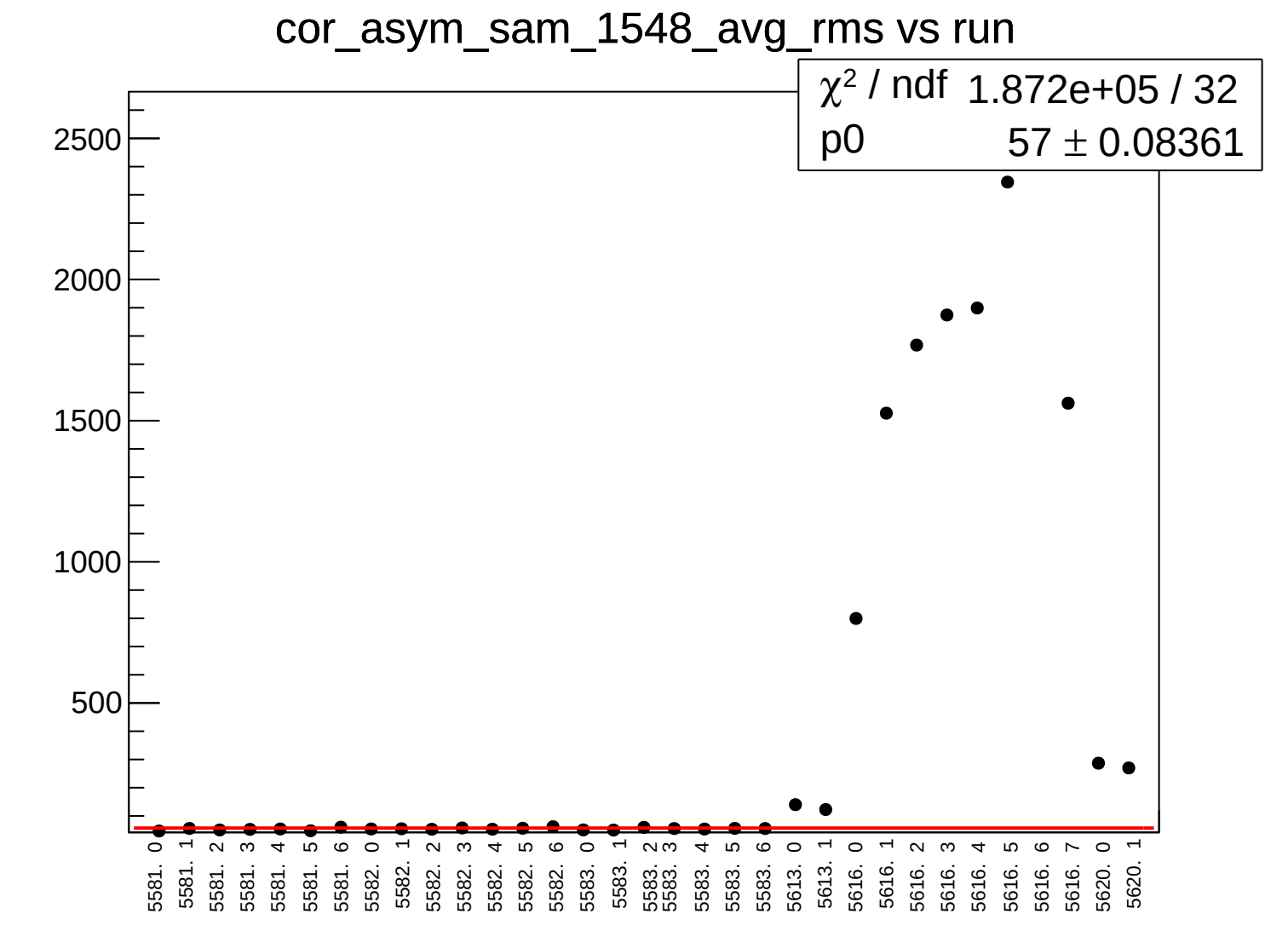

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 37.67 / 32
p0 −1711 ± 1036
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.94
Std Dev 14.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

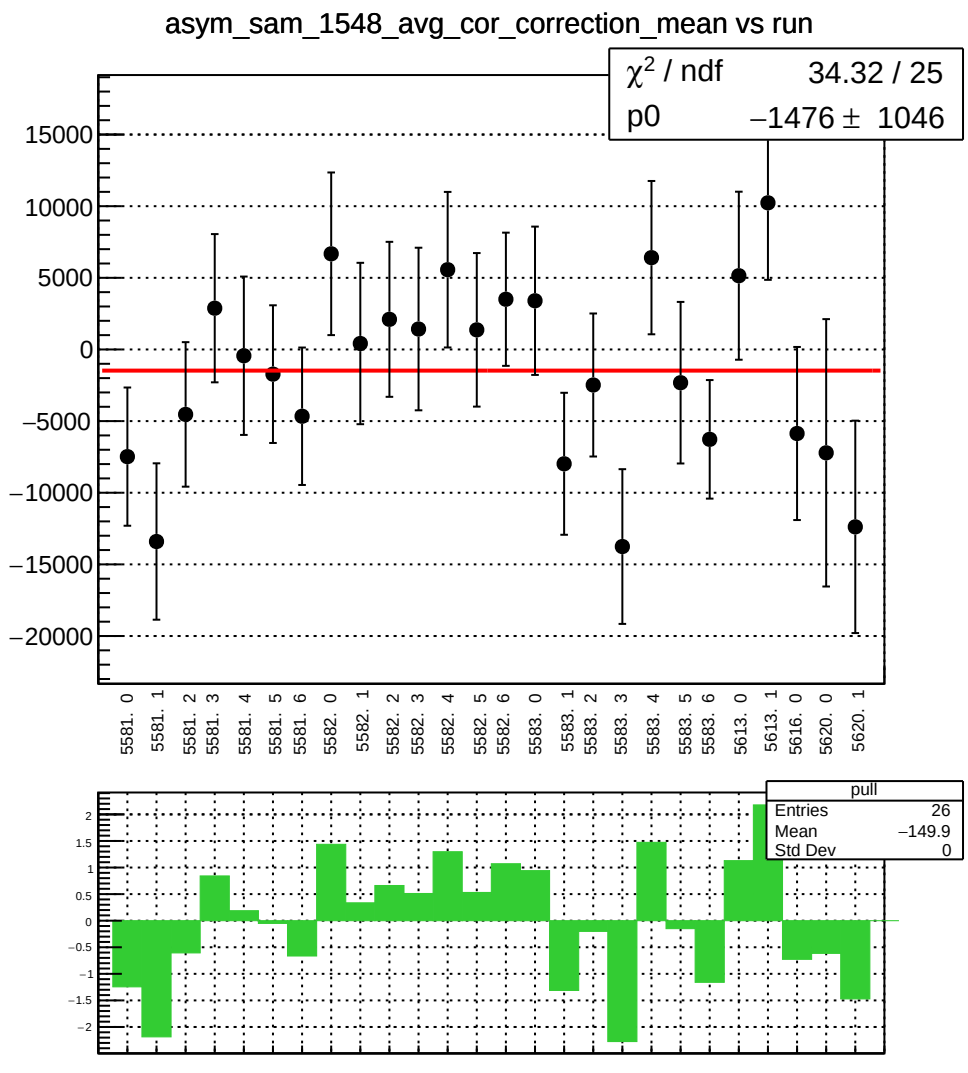

pull1D
Entries 33
Mean −0.0722
Std Dev 1.066
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

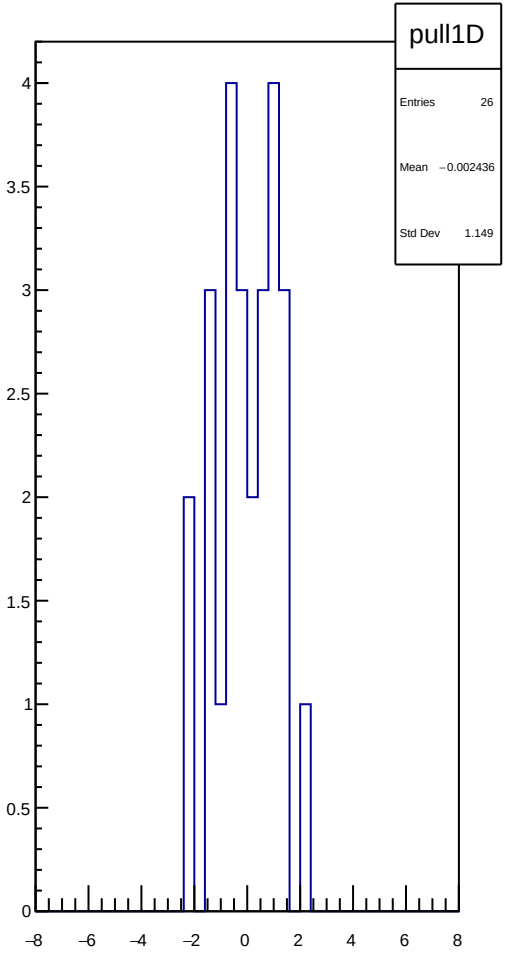

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 6.406e+04 / 32
p0 561.4 ± 0.7322
1800
1600
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

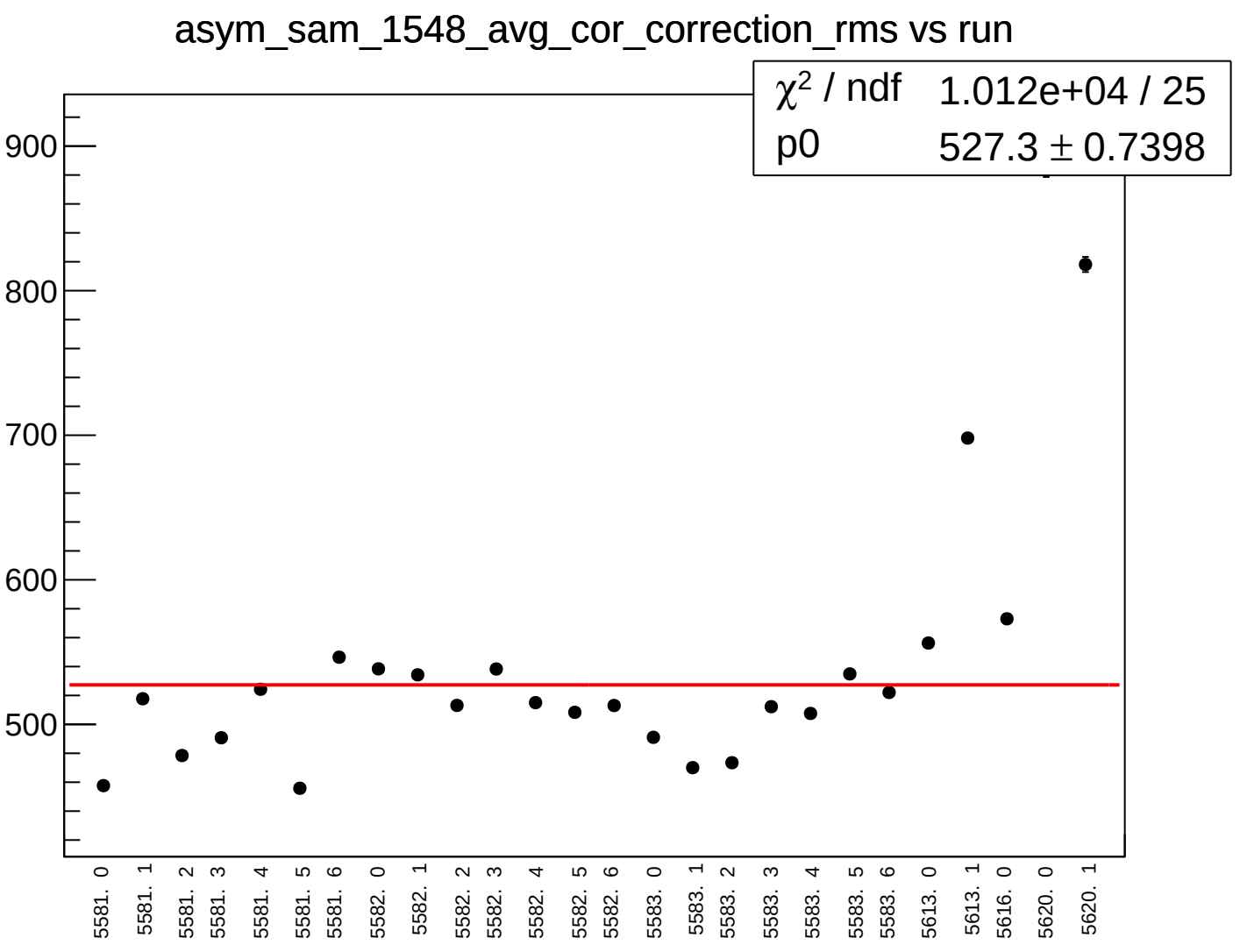

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 37.48 / 32
p0 −260.2 ± 118.2
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5.421
Std Dev 0
2
1
0
−1
−2

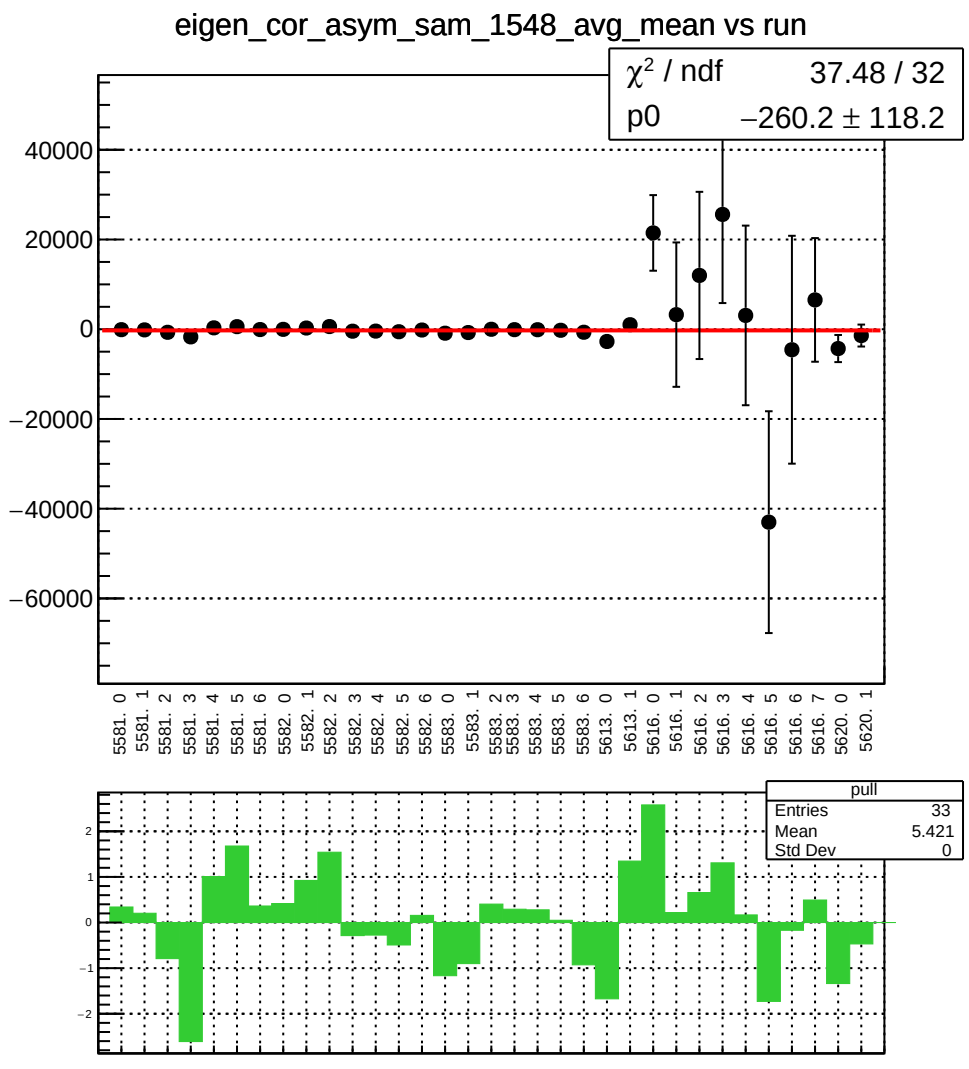

pull1D
Entries 33
Mean 0.04851
Std Dev 1.065
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

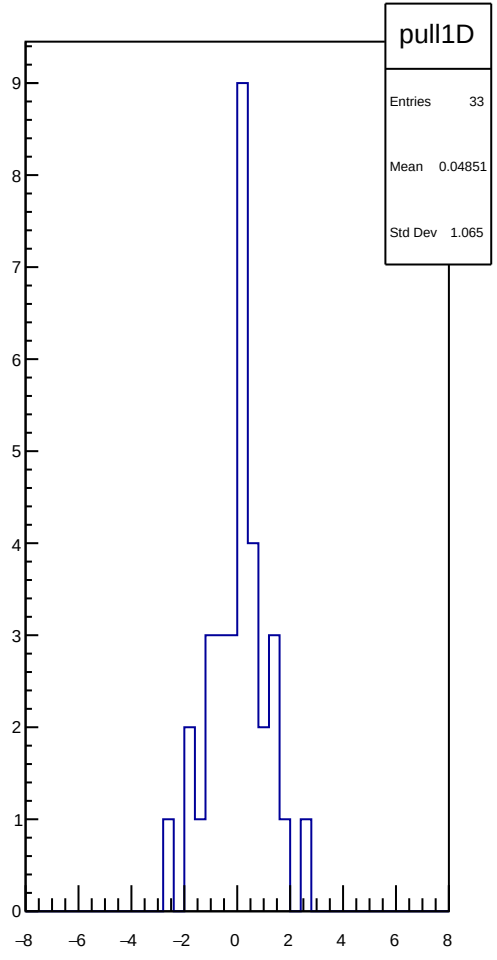

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.872e+05 / 32
p0 57 ± 0.08361
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

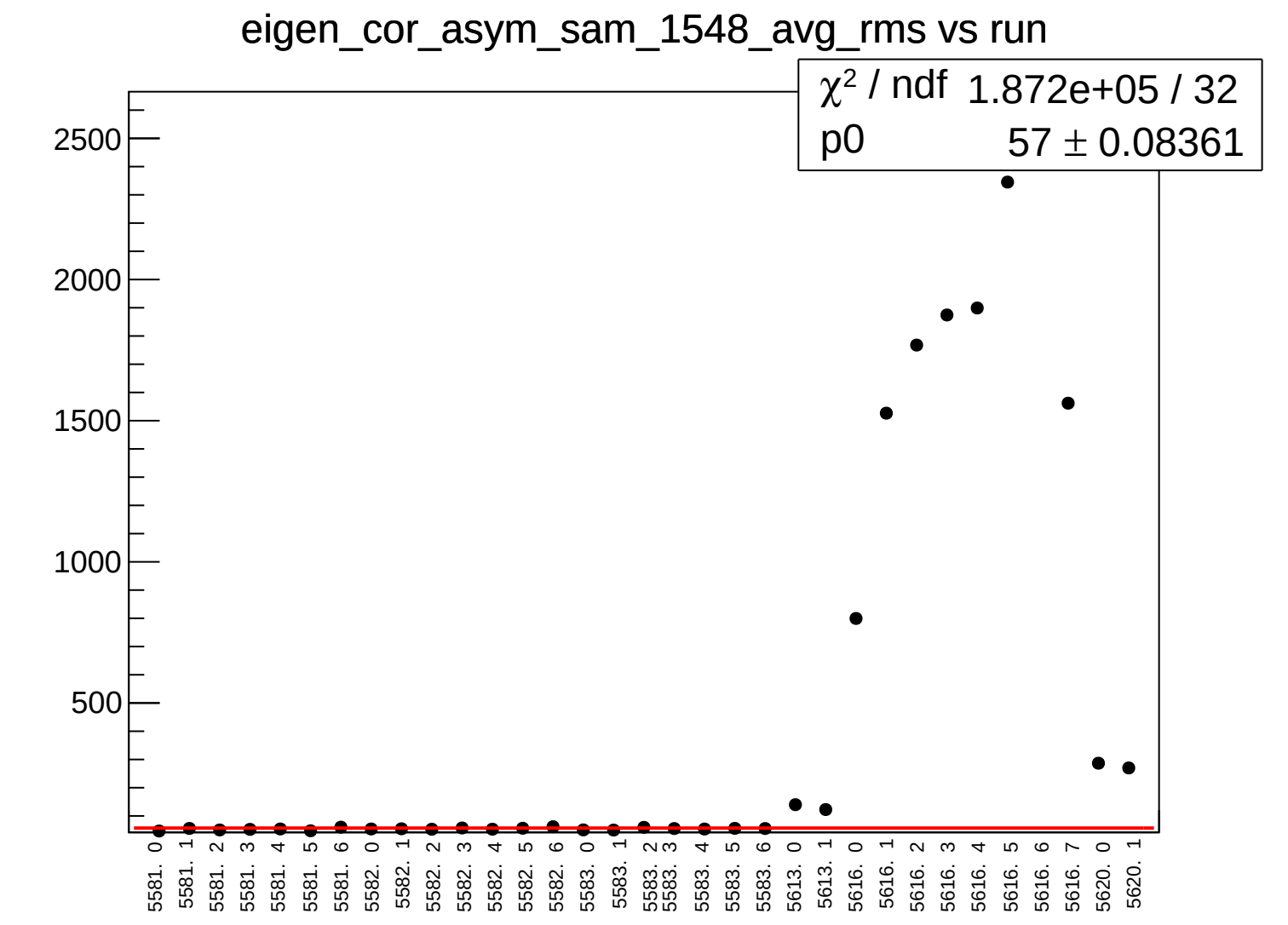

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 34.32 / 25
p0 −1476 ± 1046
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −149.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

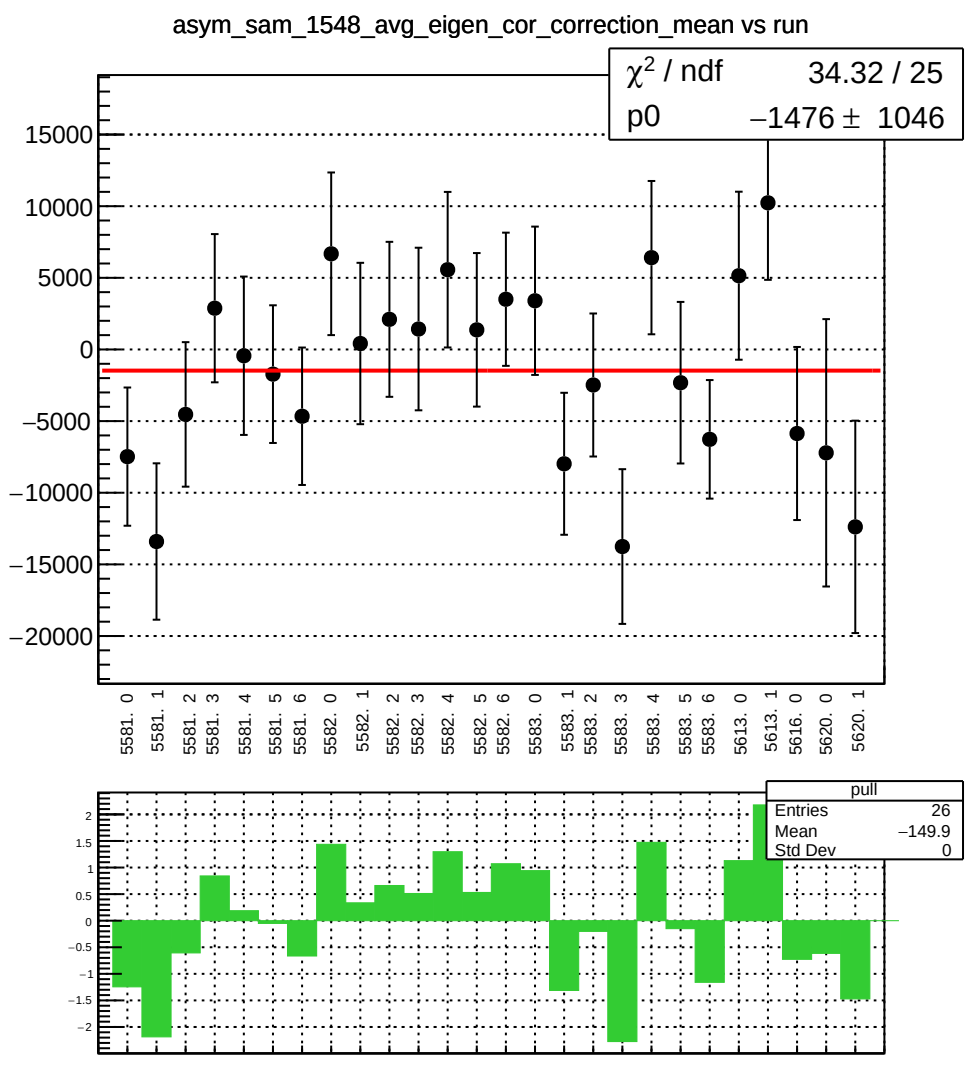

pull1D
Entries 26
Mean −0.002436
Std Dev 1.149
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

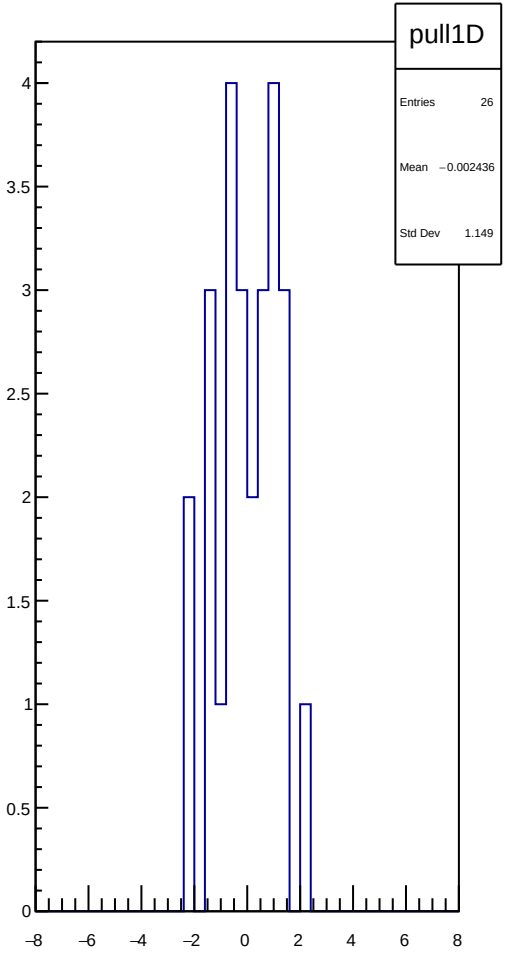

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1.012e+04 / 25
p0 527.3 ± 0.7398
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

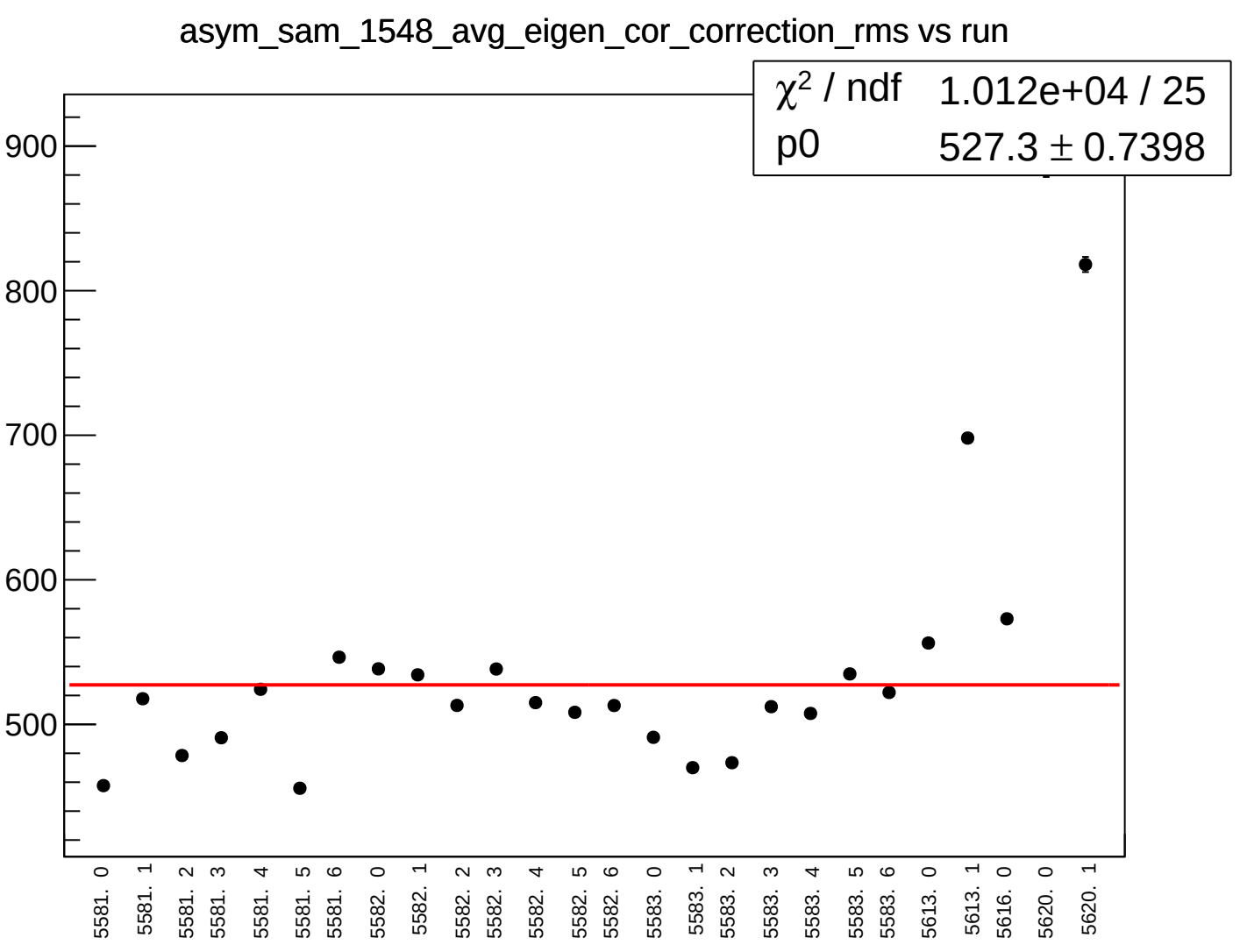

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 37.48 / 32
p0 −260.2 ± 118.2
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5.421
Std Dev 0
2
1
0
−1
−2

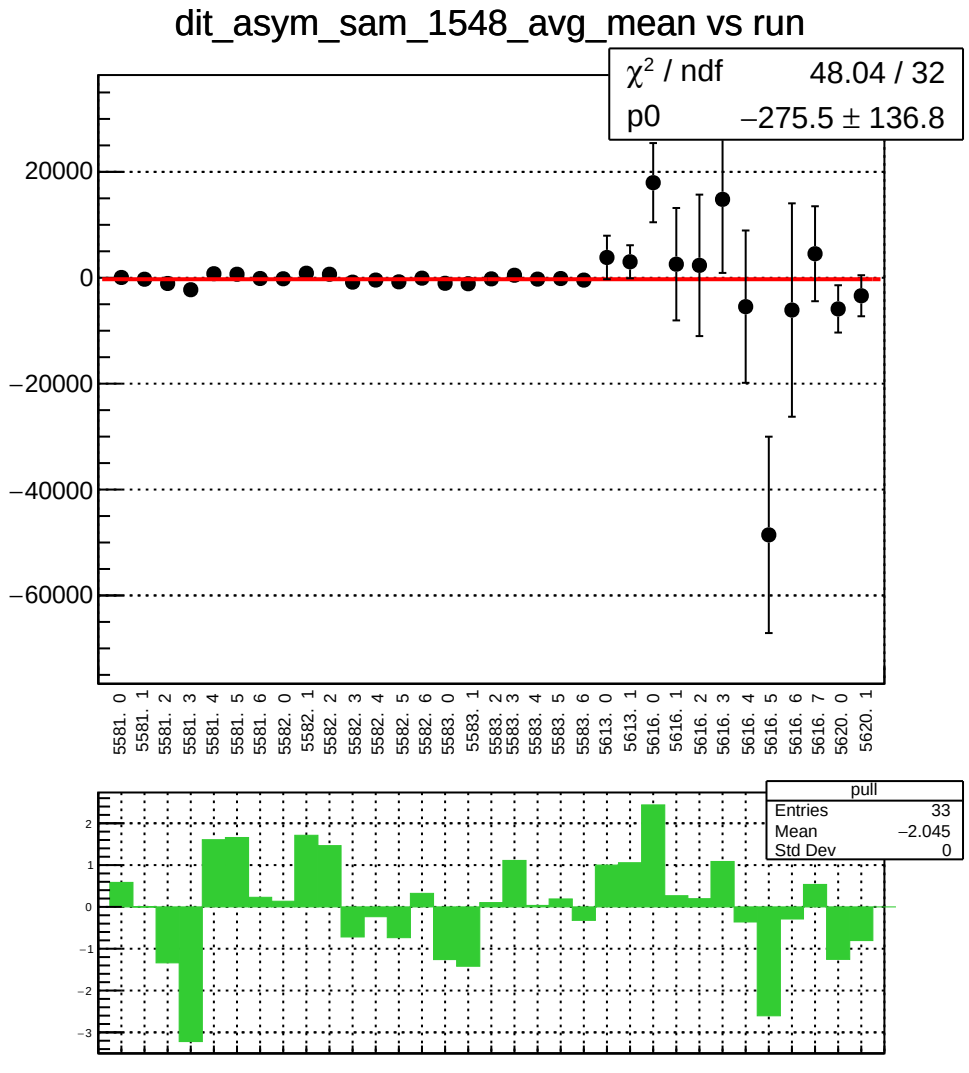

pull1D
Entries 33
Mean 0.04851
Std Dev 1.065
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

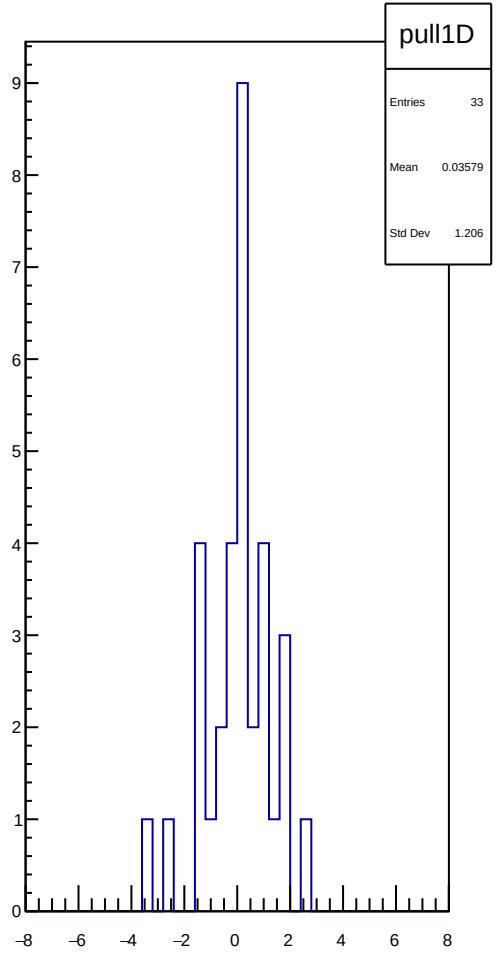

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.872e+05 / 32
p0 57 ± 0.08361
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

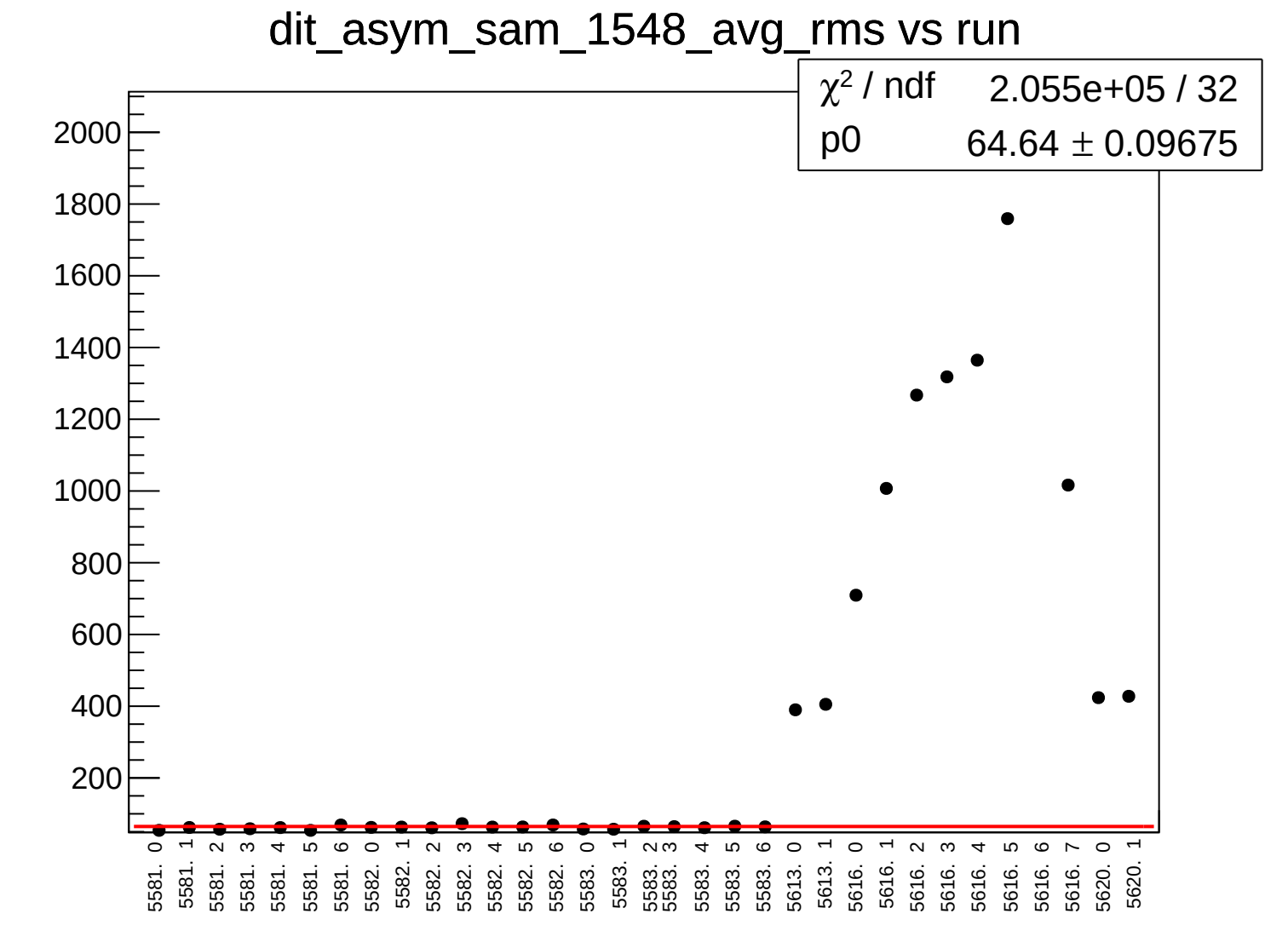

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 34.32 / 25
p0 −1476 ± 1046
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −149.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

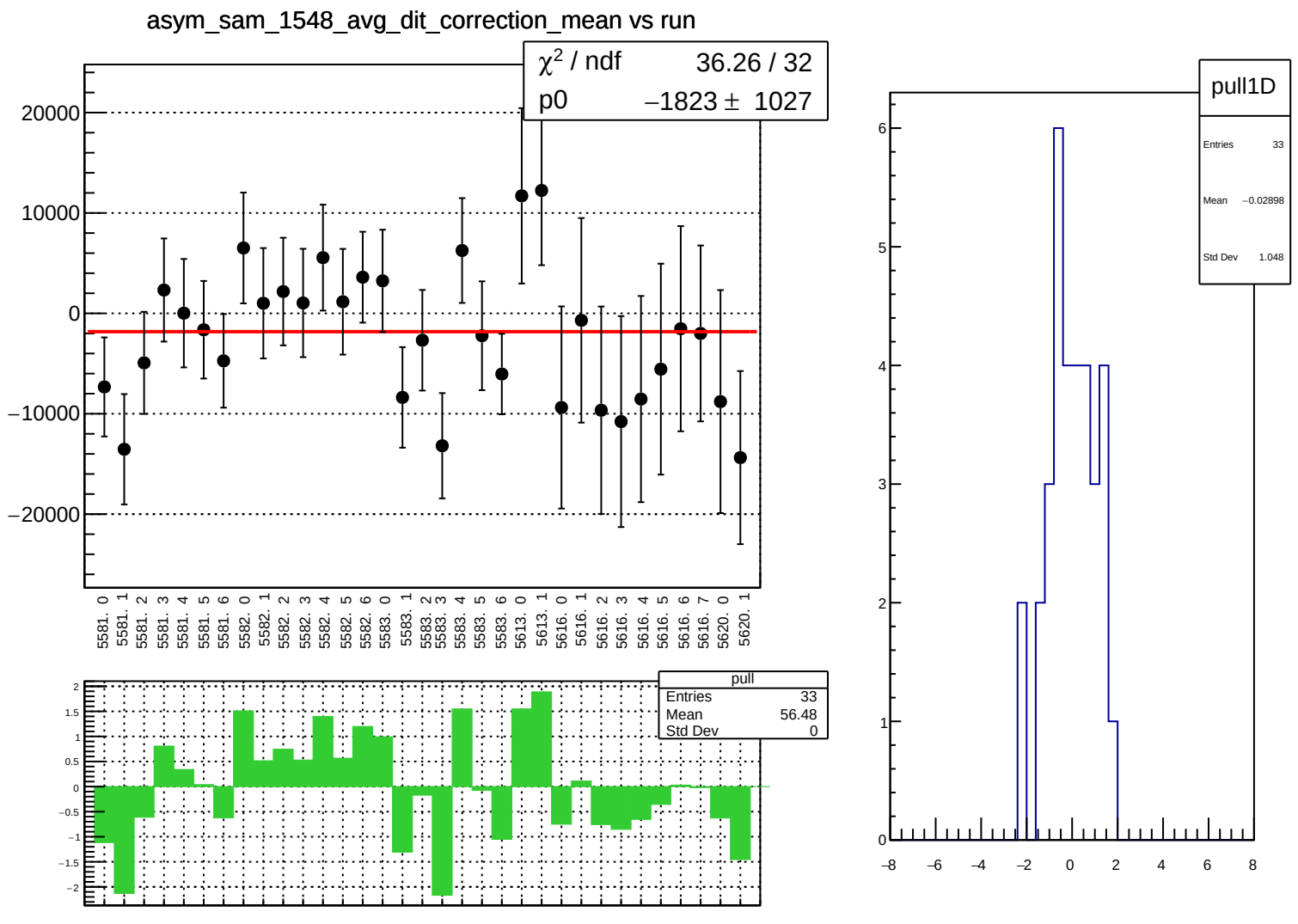

pull1D
Entries 26
Mean −0.002436
Std Dev 1.149
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

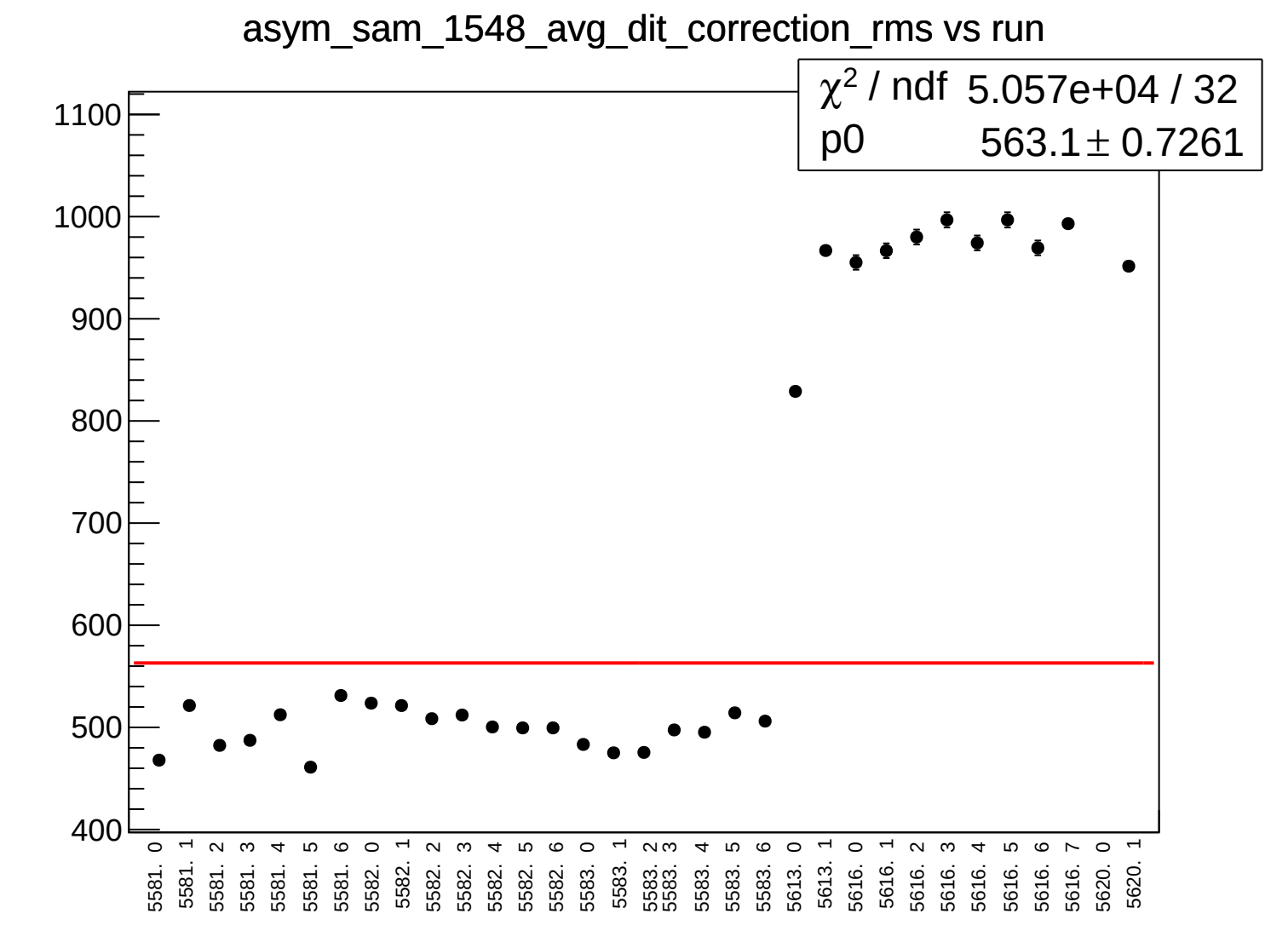

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.012e+04 / 25
p0 527.3 ± 0.7398
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

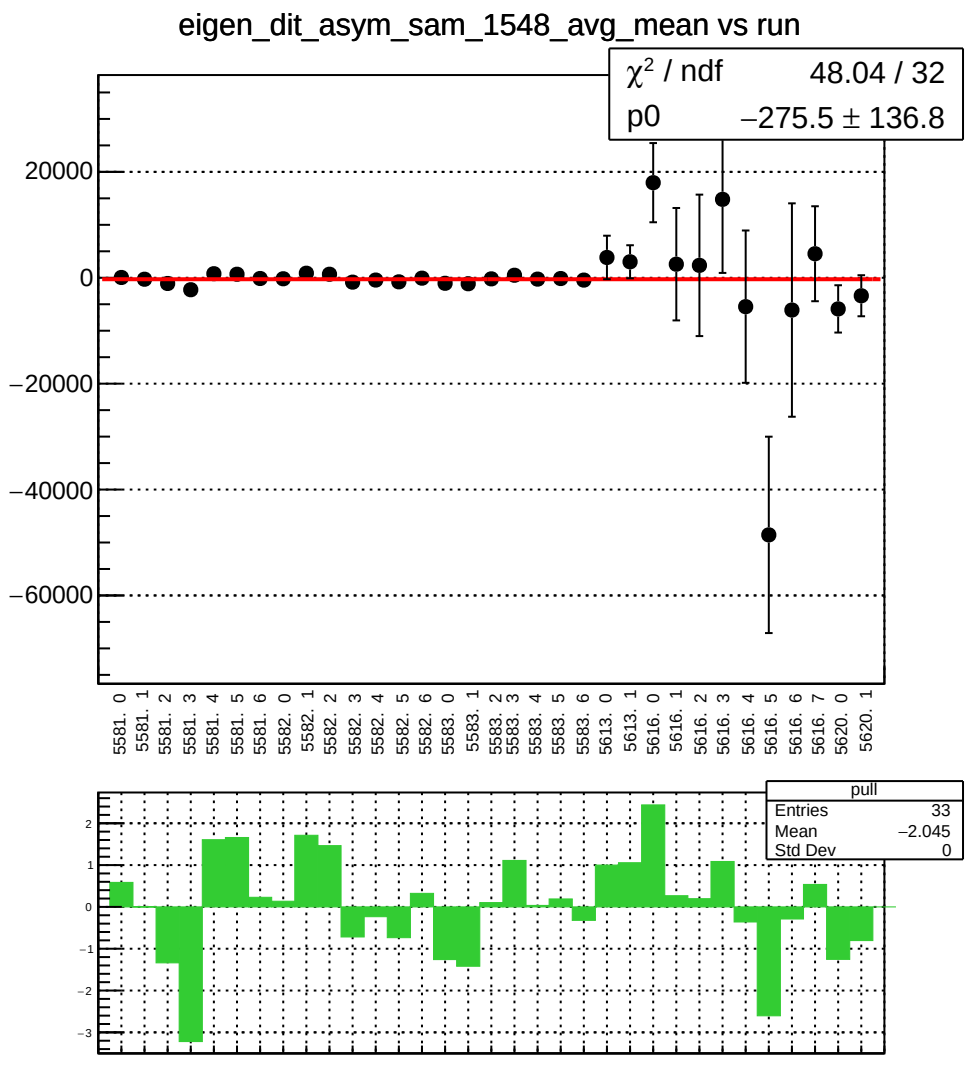

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 48.04 / 32
p0 −275.5 ± 136.8
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2.045
Std Dev 0
2
1
0
−1
−2
−3

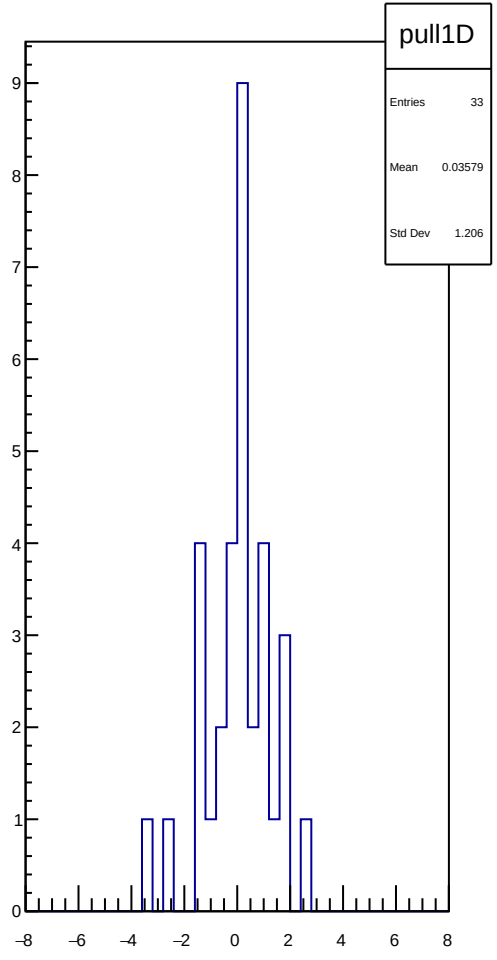

pull1D
Entries 33
Mean 0.03579
Std Dev 1.206
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

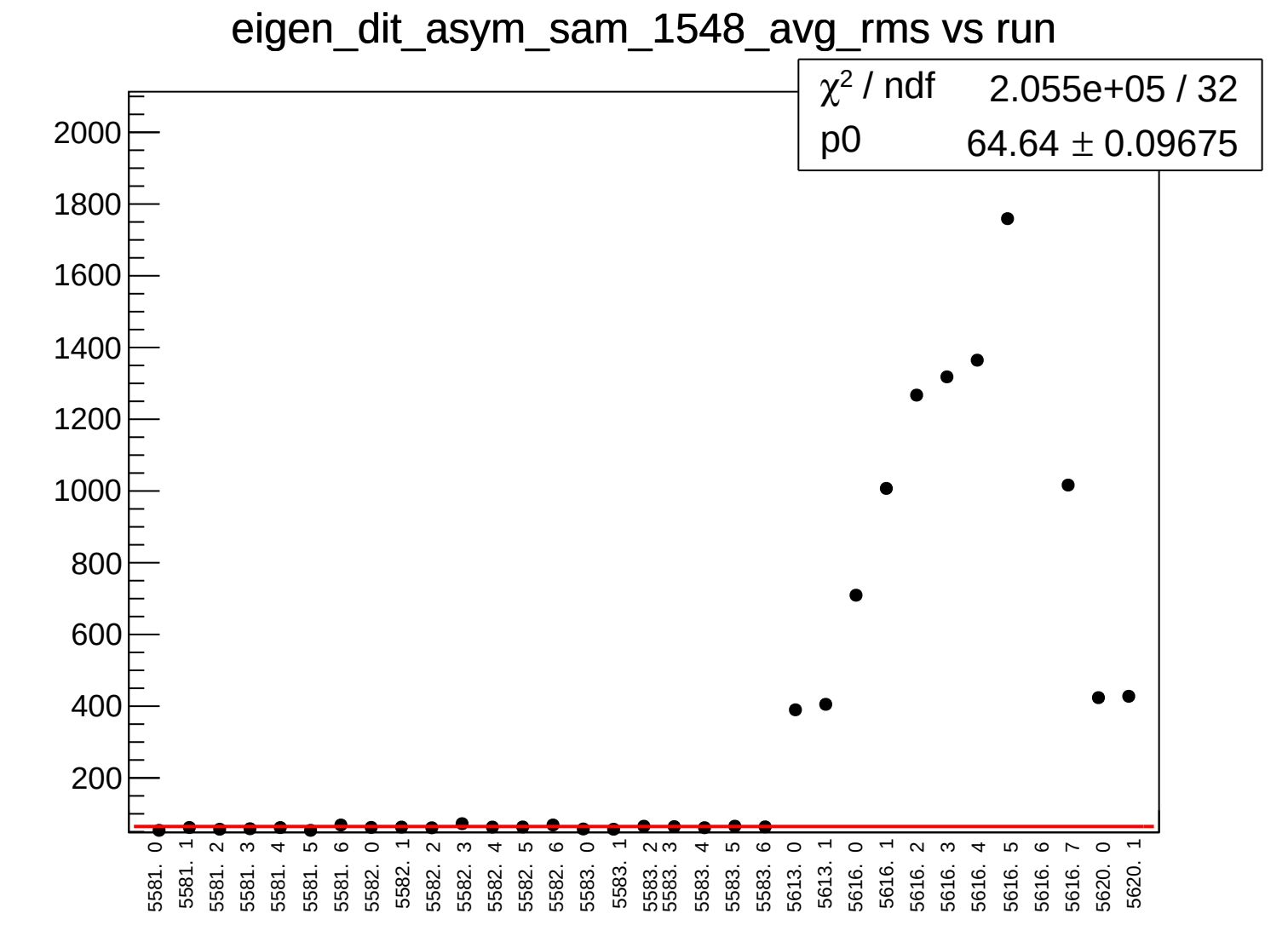

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2.055e+05 / 32
p0 64.64 ± 0.09675
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

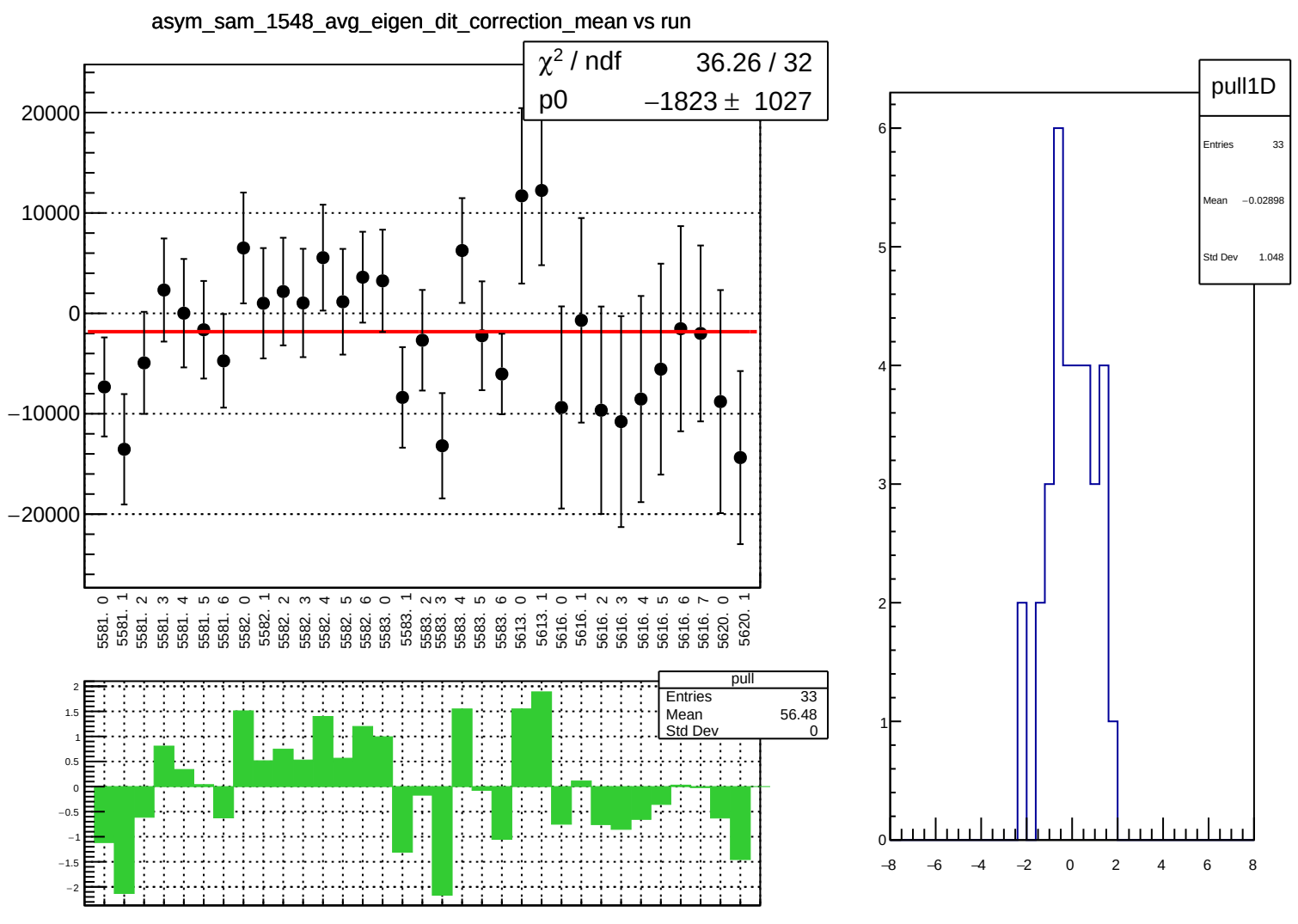

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 36.26 / 32
p0 −1823 ± 1027
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 56.48
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02898
Std Dev 1.048
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

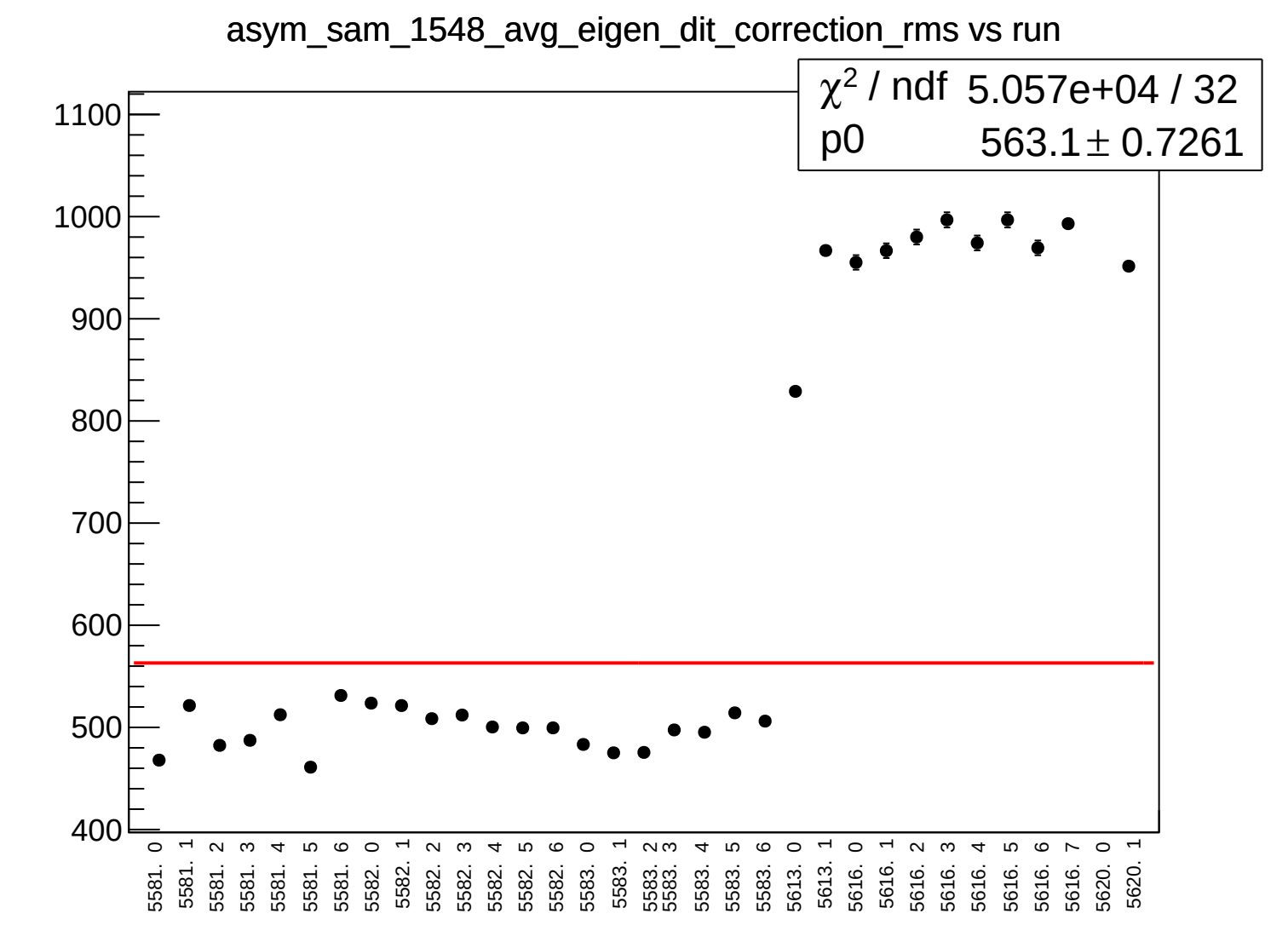

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 5.057e+04 / 32
p0 563.1 ± 0.7261
1100
1000
900
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

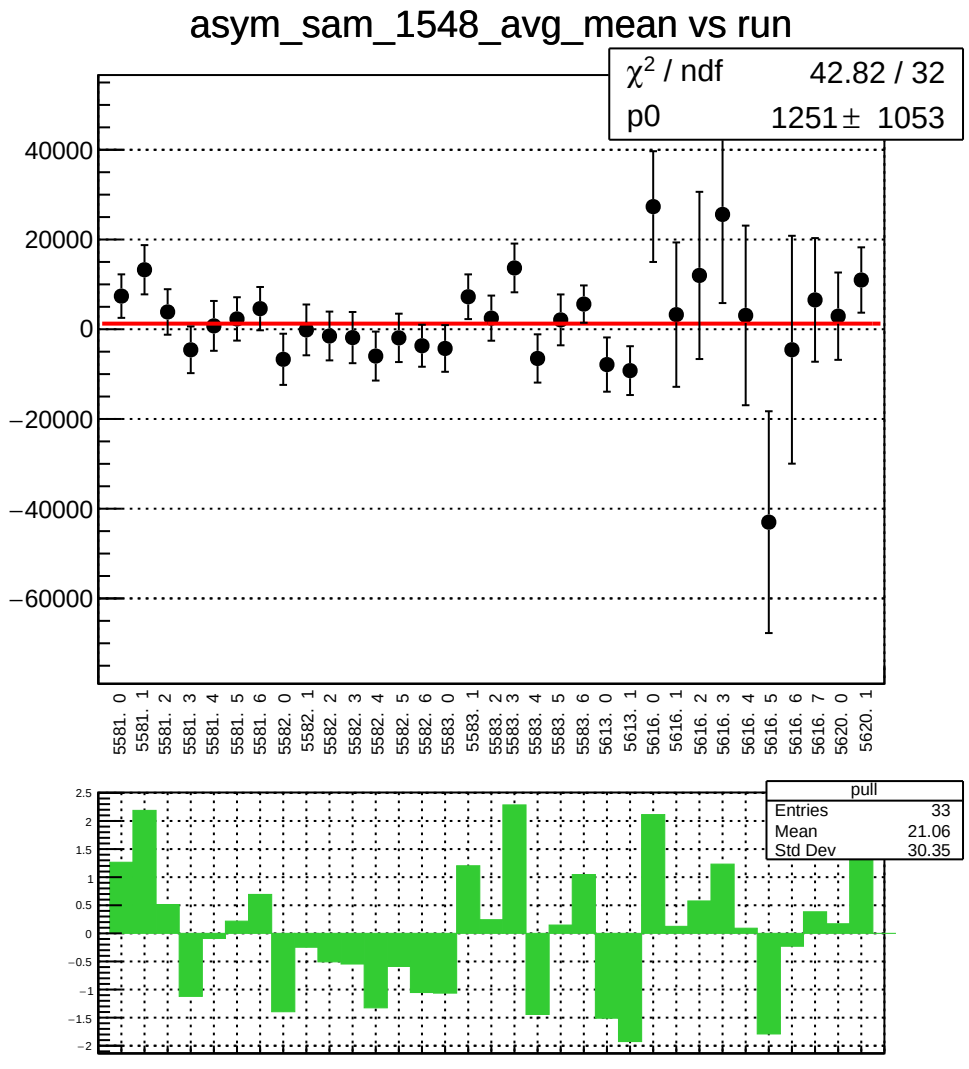

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 48.04 / 32
p0 −275.5 ± 136.8
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2.045
Std Dev 0
2
1
0
−1
−2
−3

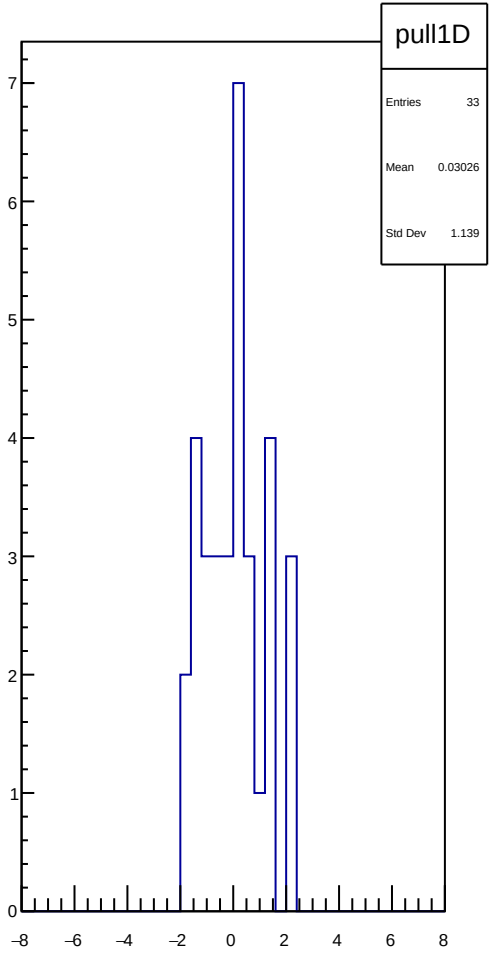

pull1D
Entries 33
Mean 0.03579
Std Dev 1.206
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

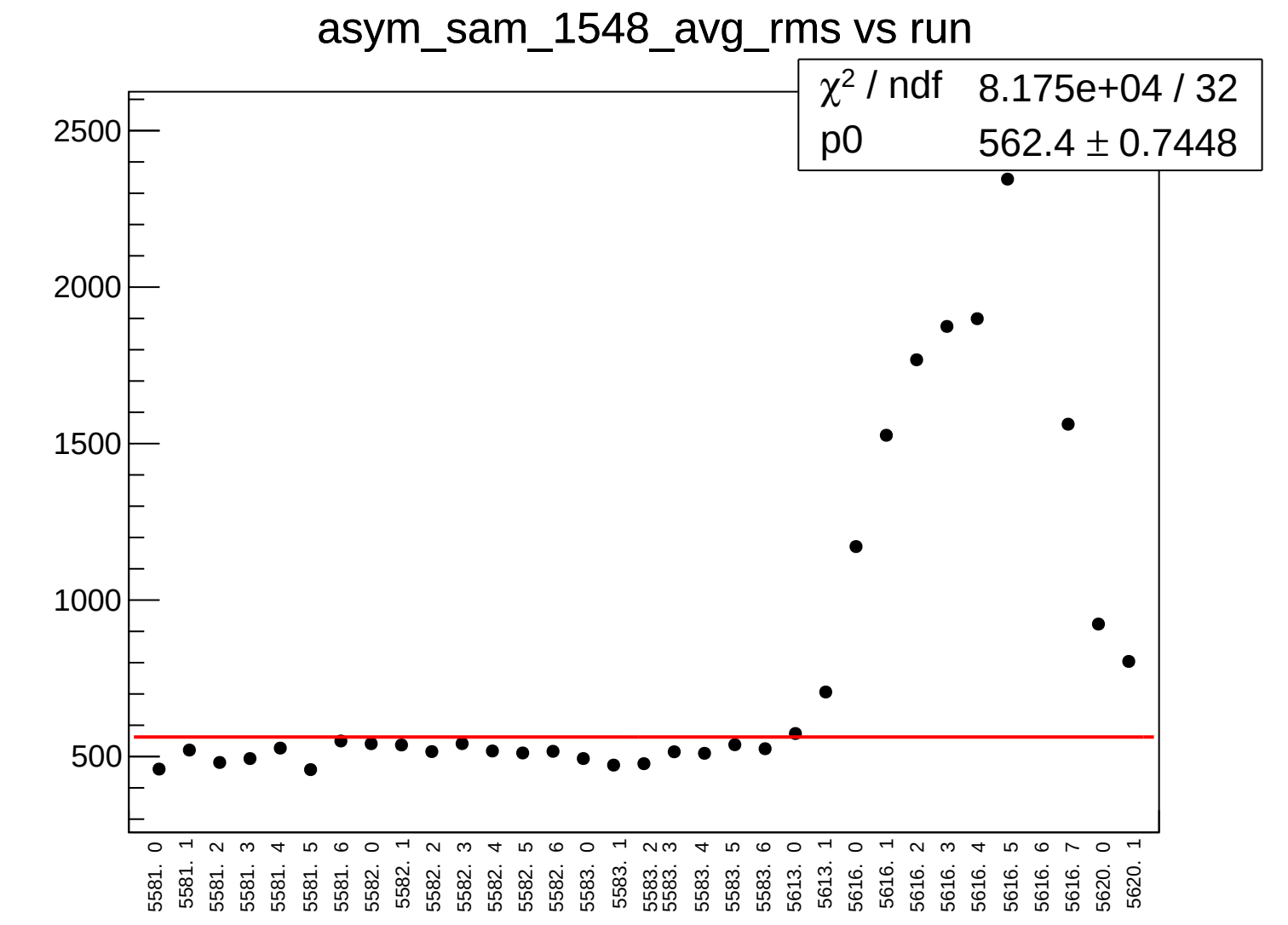

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2.055e+05 / 32
p0 64.64 ± 0.09675
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

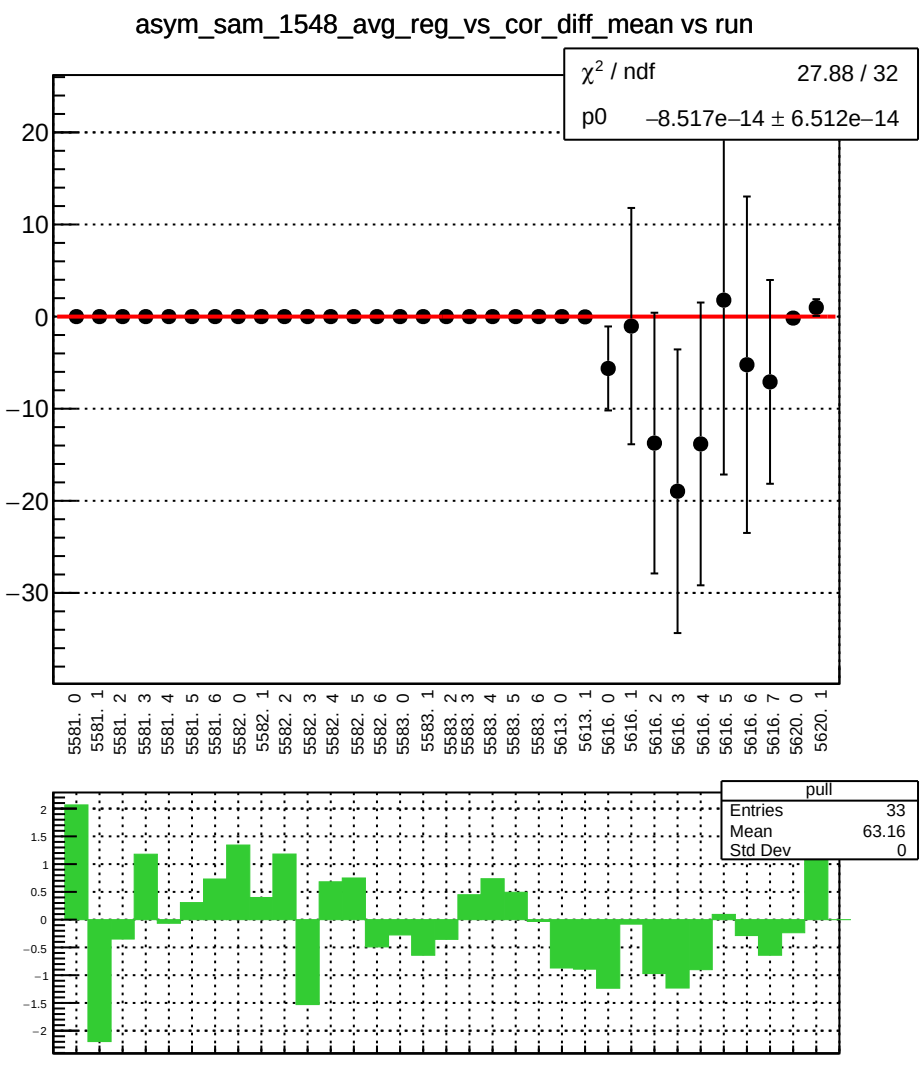

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 36.26 / 32
p0 −1823 ± 1027
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 56.48
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02898
Std Dev 1.048
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

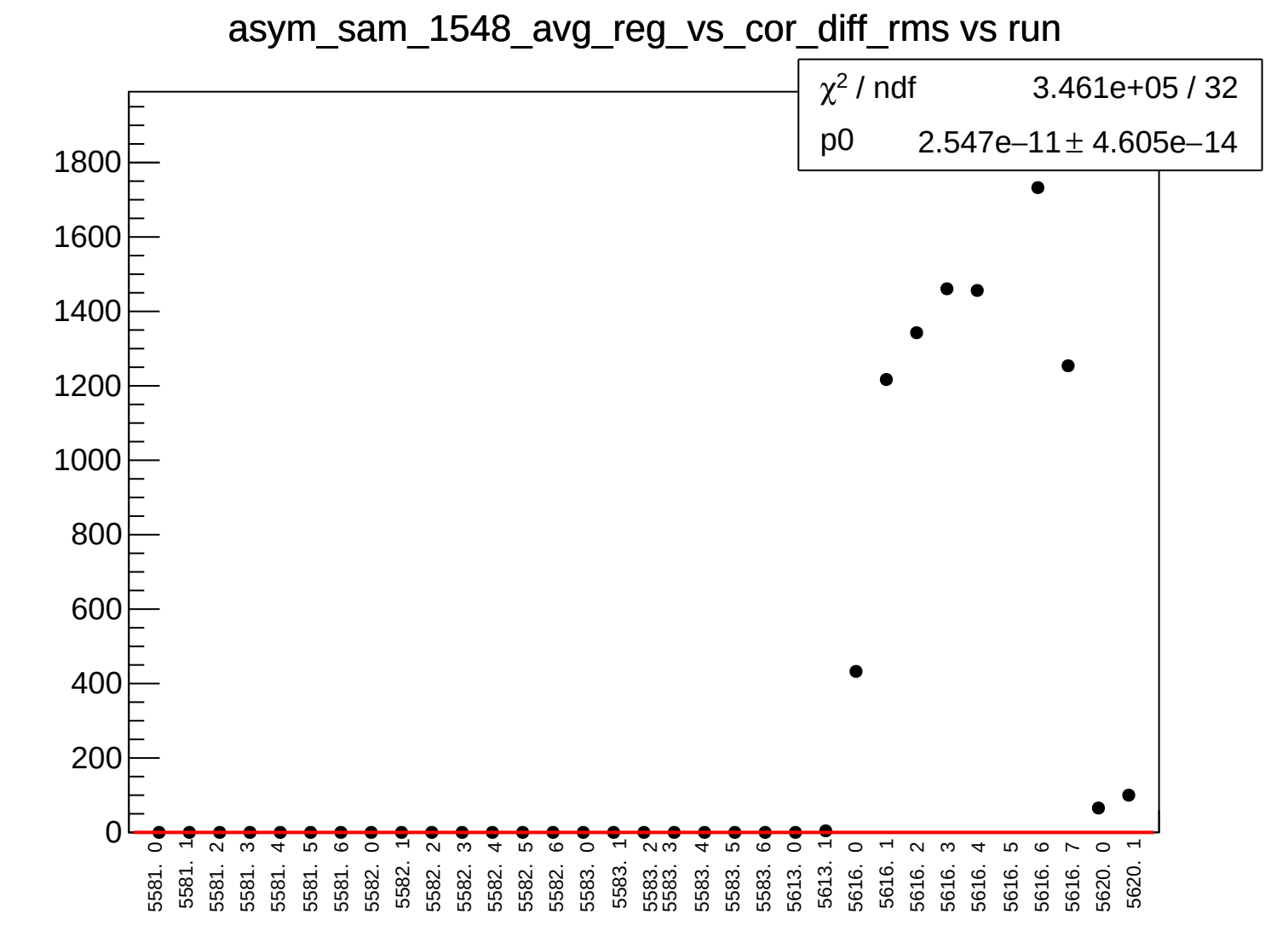

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.057e+04 / 32
p0 563.1 ± 0.7261
1100
1000
900
800
700
600
500
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

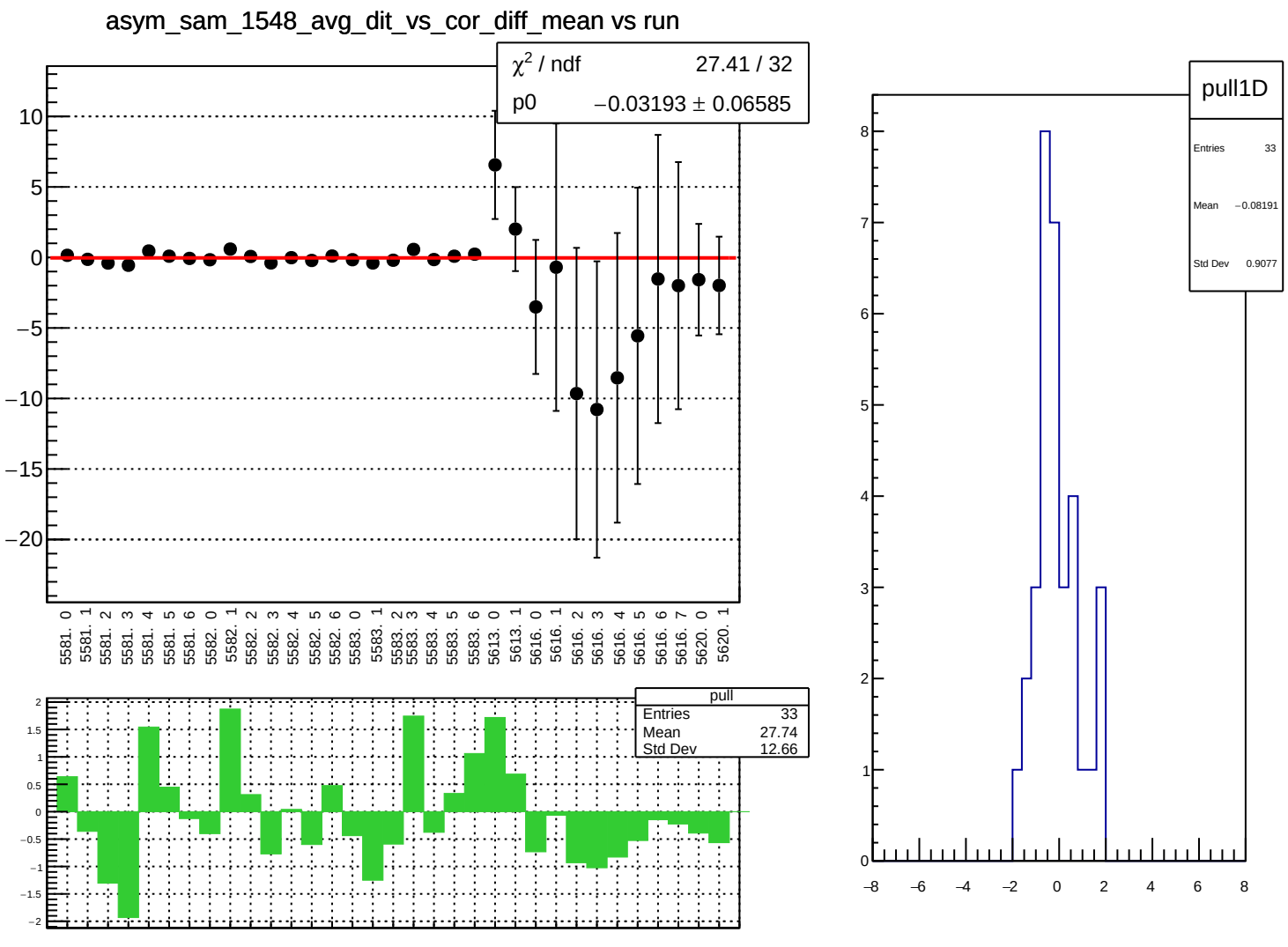

asym_sam_1548_avg_mean vs run
χ² / ndf 42.82 / 32
p0 1251 ± 1053
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.06
Std Dev 30.35
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

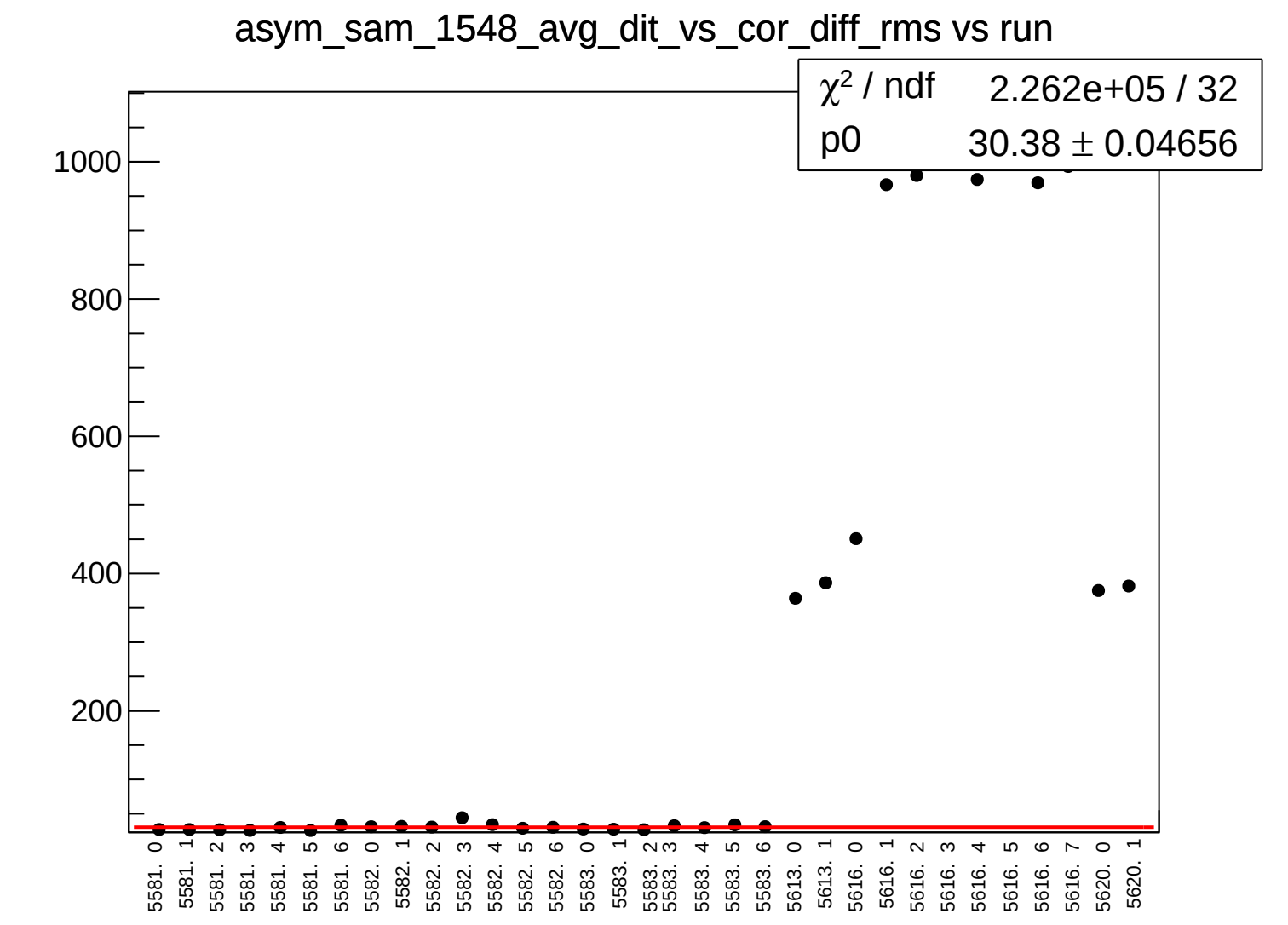

pull1D
Entries 33
Mean 0.03026
Std Dev 1.139
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

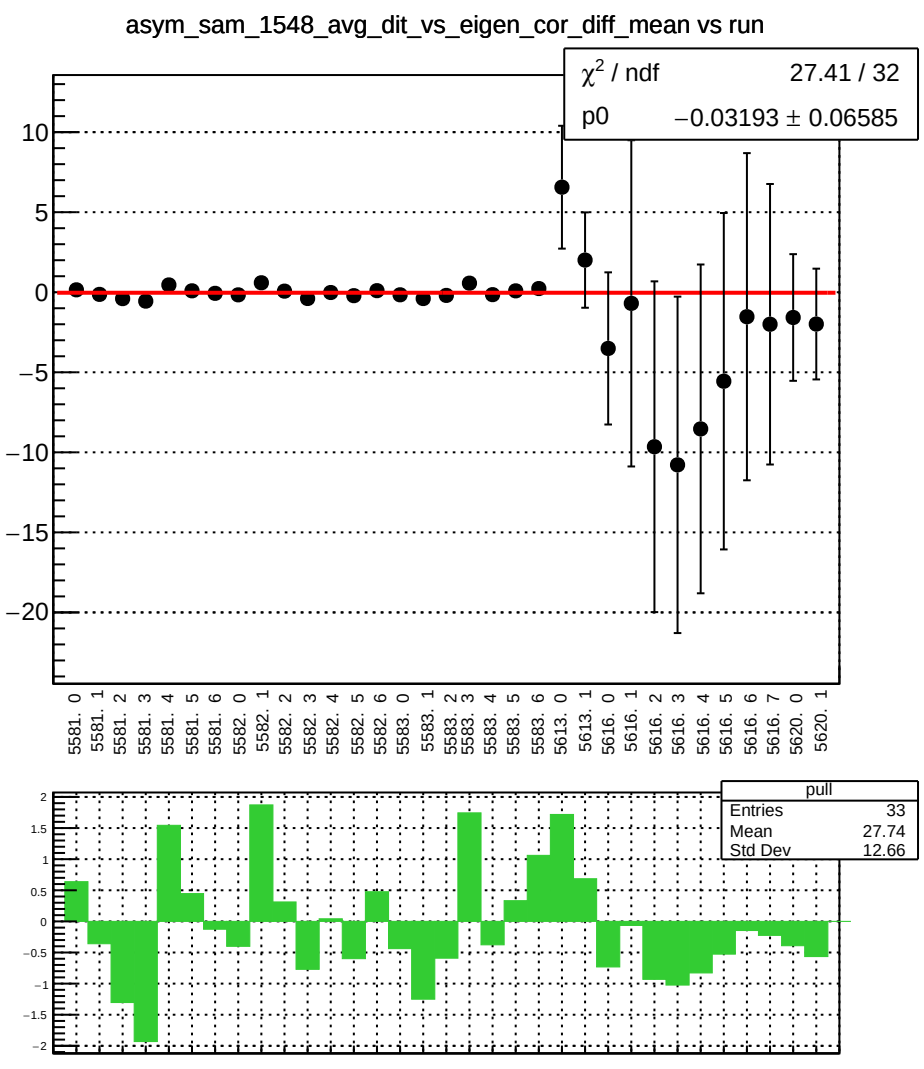

asym_sam_1548_avg_rms vs run
χ² / ndf 8.175e+04 / 32
p0 562.4 ± 0.7448
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

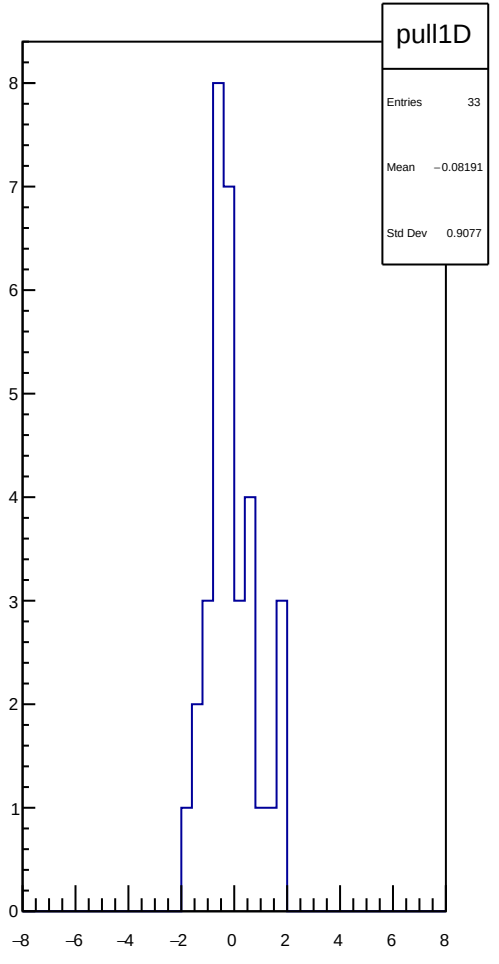

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 27.88 / 32
p0 −8.517e−14 ± 6.512e−14
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 63.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.05391
Std Dev 0.9176
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

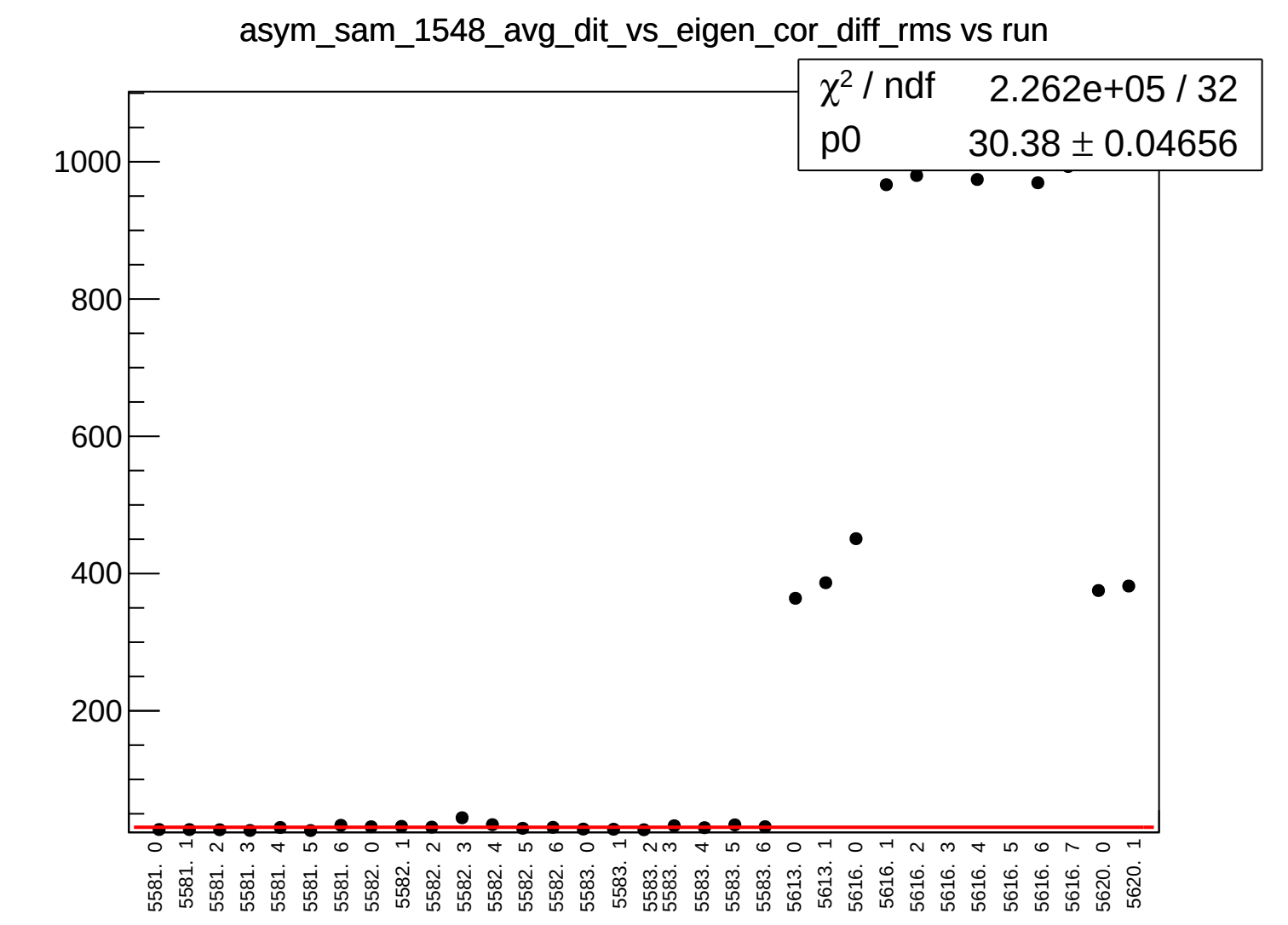

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.461e+05 / 32
p0 2.547e−11 ± 4.605e−14
0
200
400
600
800
1000
1200
1400
1600
1800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

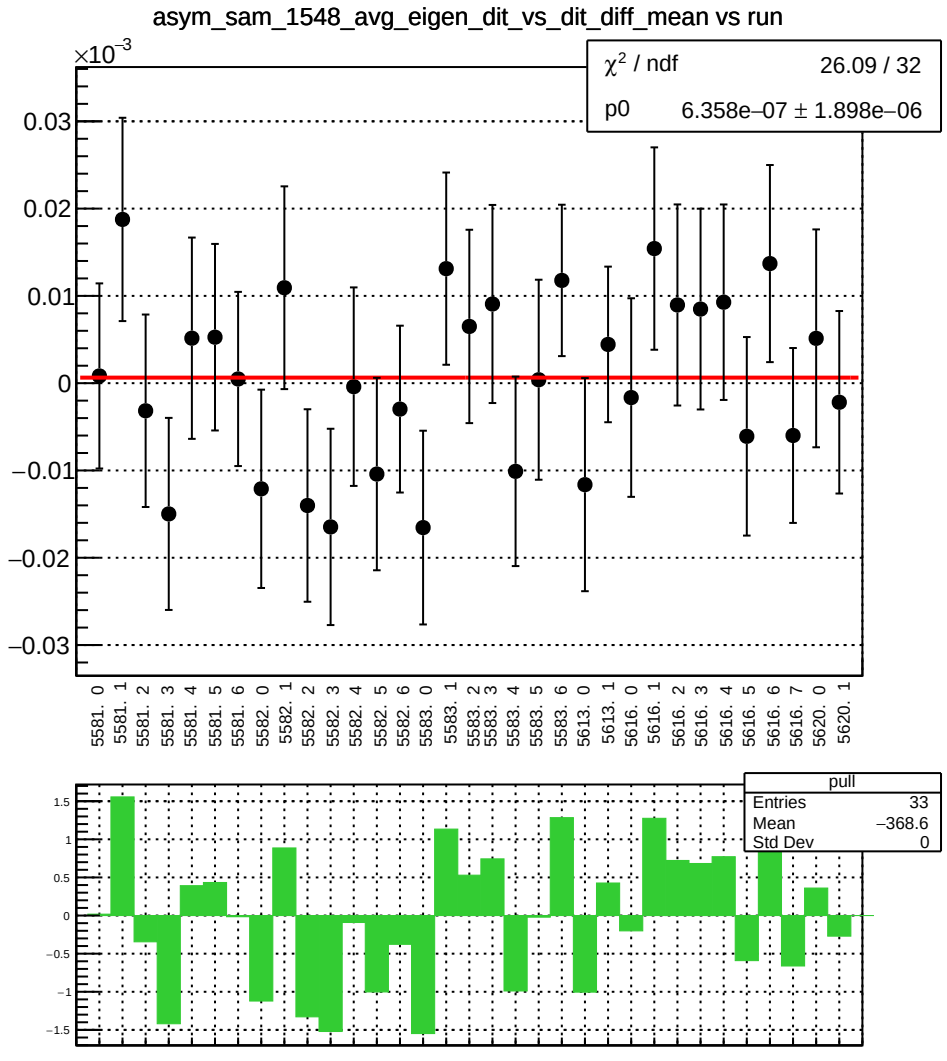

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 27.41 / 32
p0 −0.03193 ± 0.06585
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.74
Std Dev 12.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.08191
Std Dev 0.9077
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

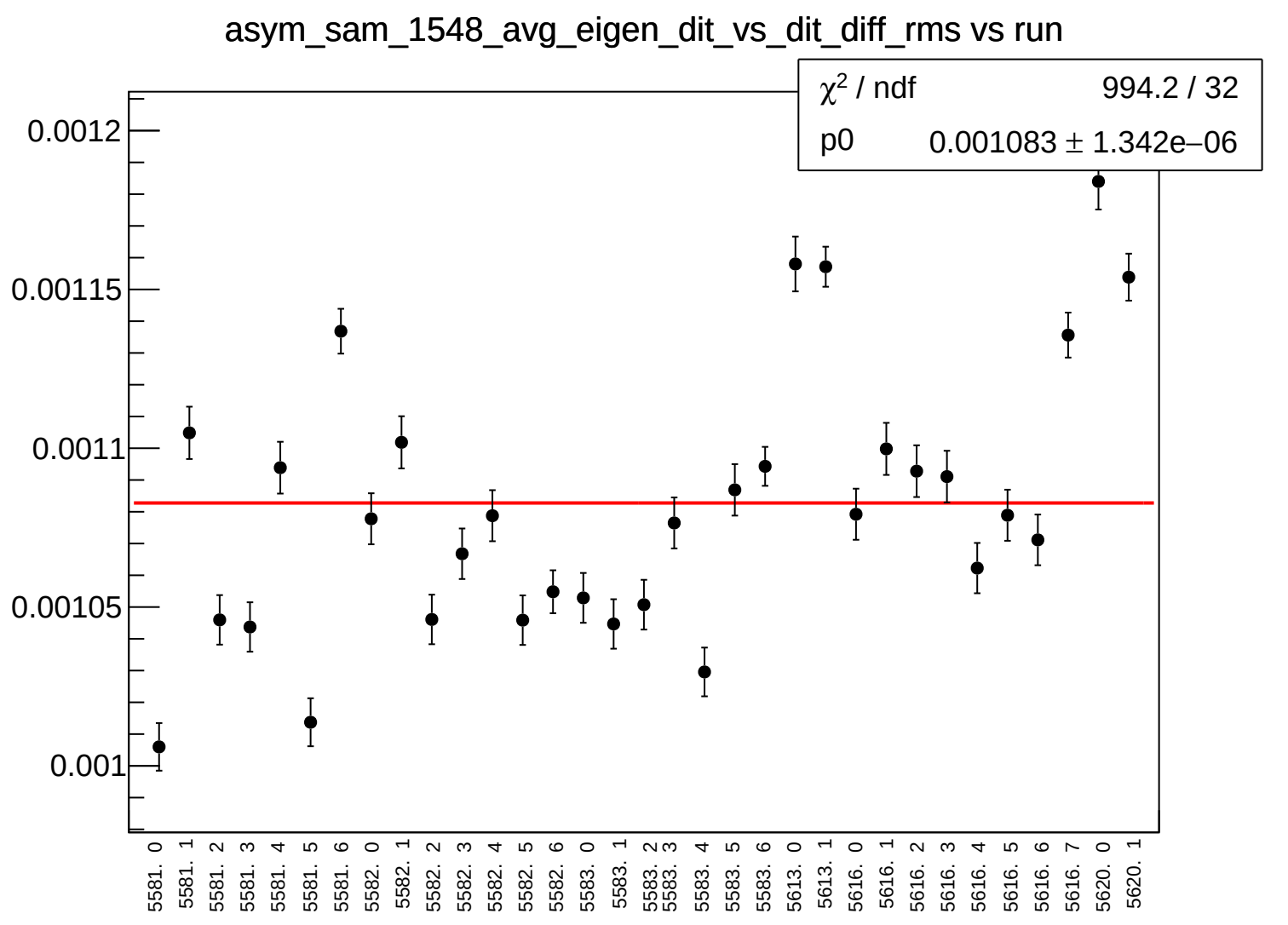

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.262e+05 / 32
p0 30.38 ± 0.04656
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

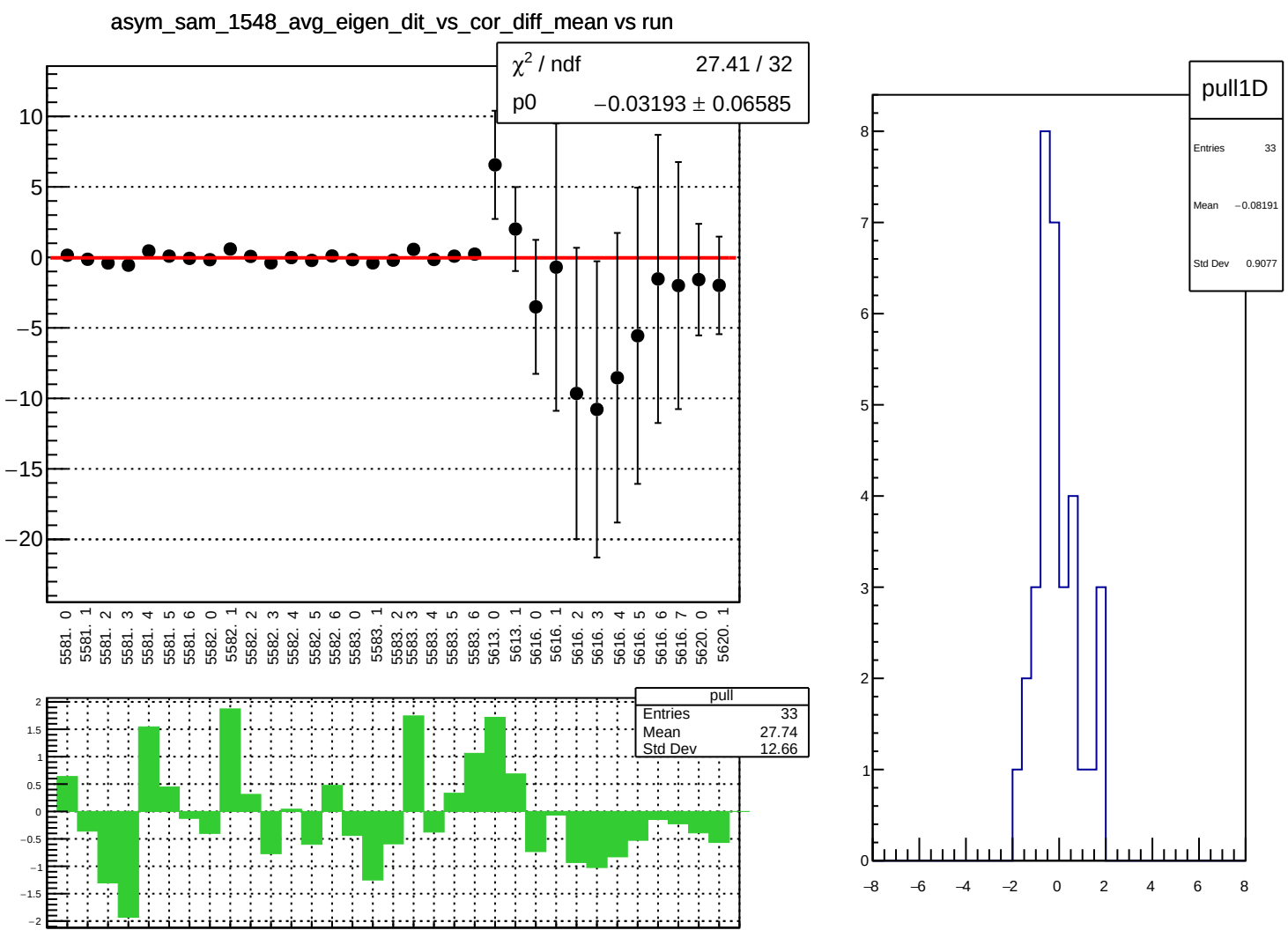

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.41 / 32
p0 −0.03193 ± 0.06585
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.74
Std Dev 12.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

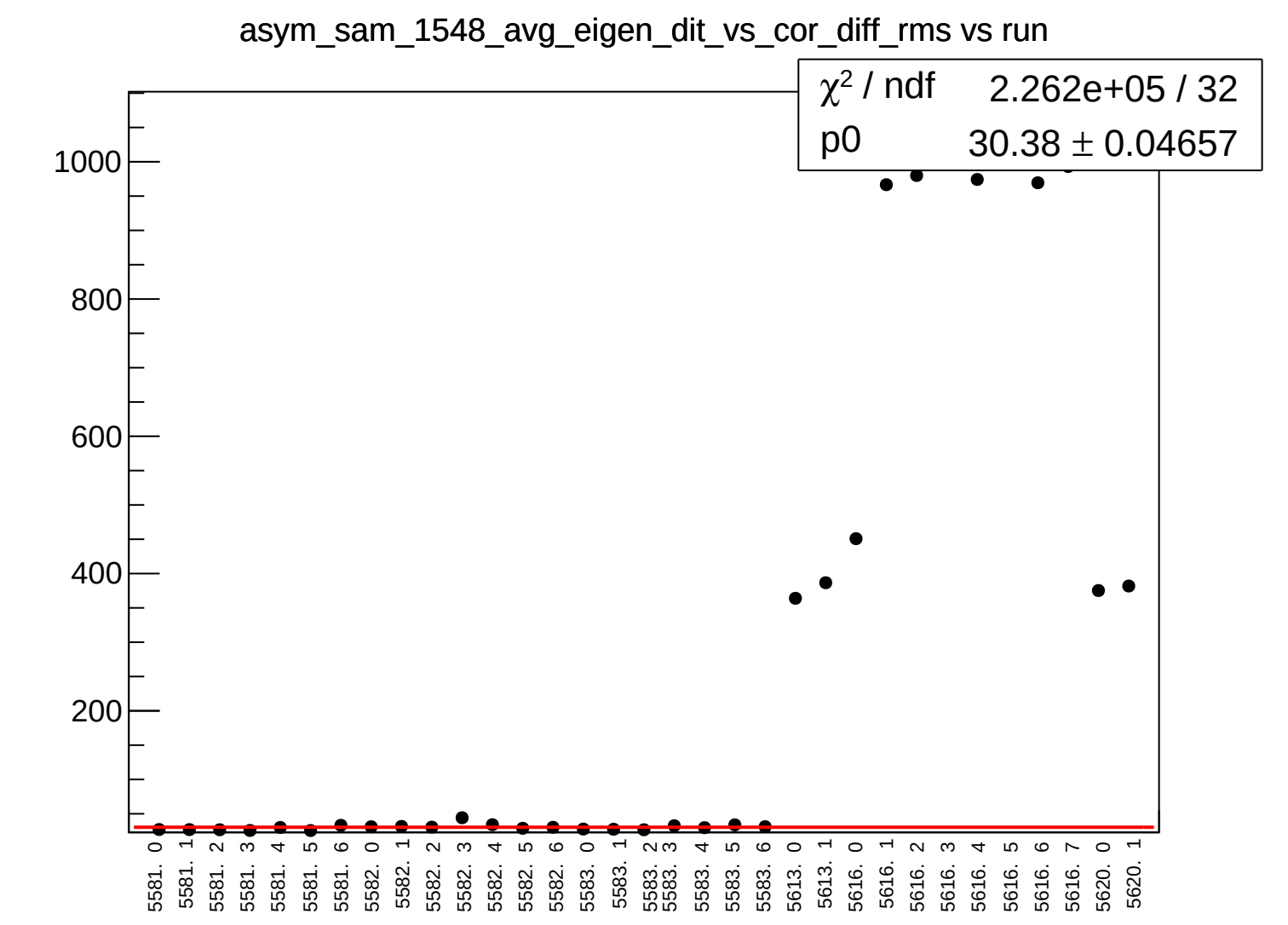

pull1D
Entries 33
Mean −0.08191
Std Dev 0.9077
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

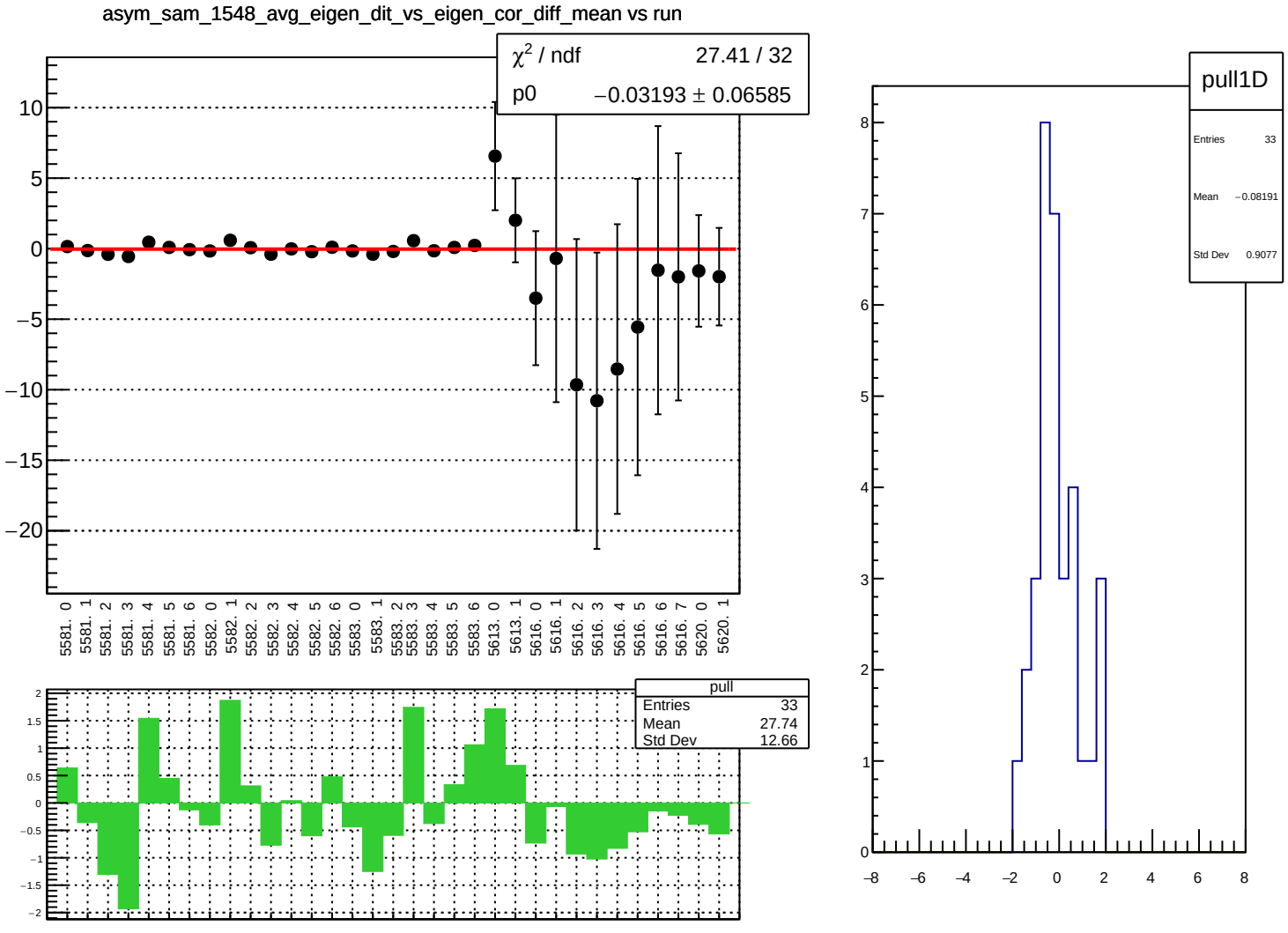

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.262e+05 / 32
p0 30.38 ± 0.04656
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

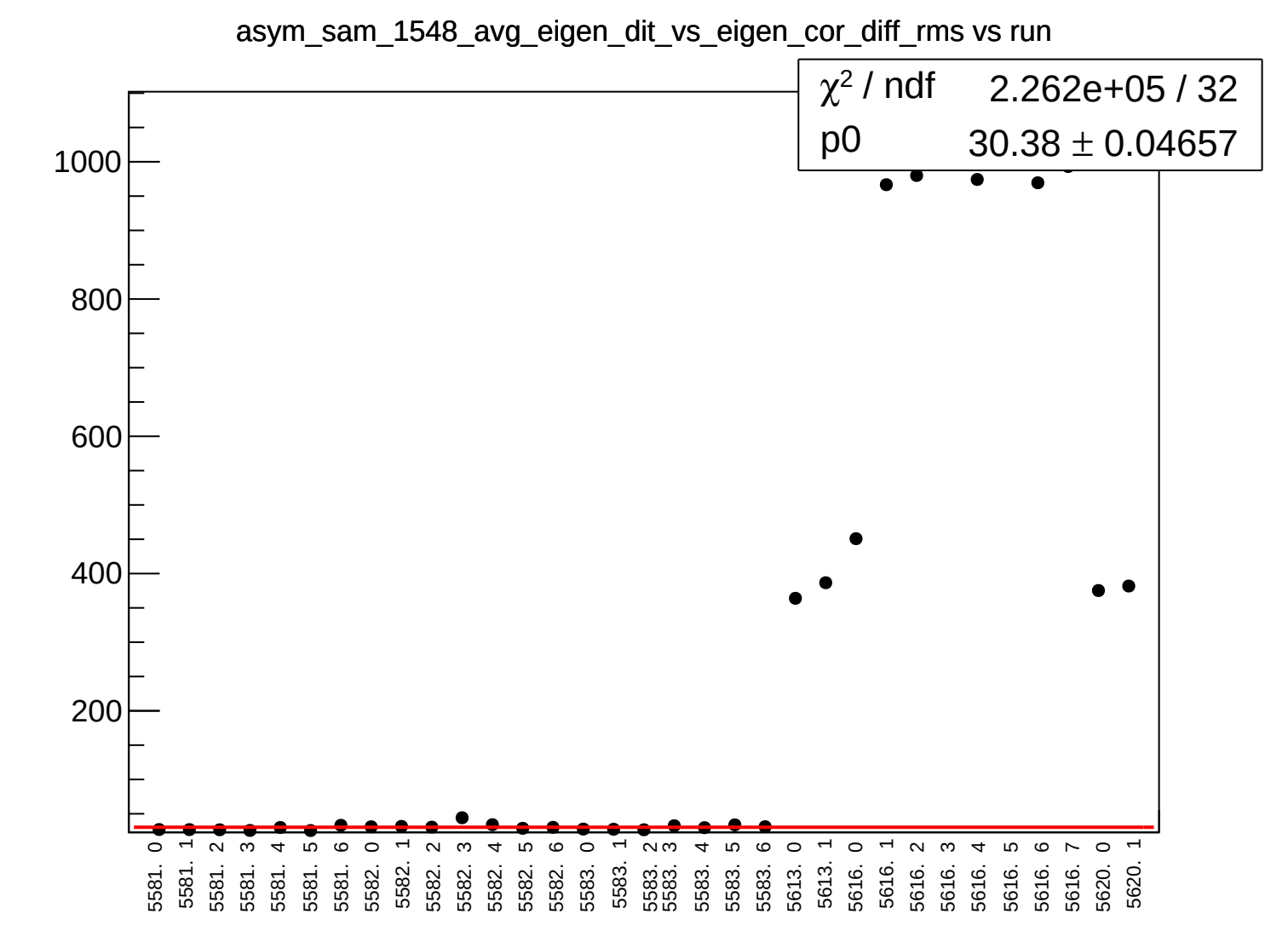

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 26.09 / 32
p0 6.358e−07 ± 1.898e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −368.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.004019
Std Dev 0.8891
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

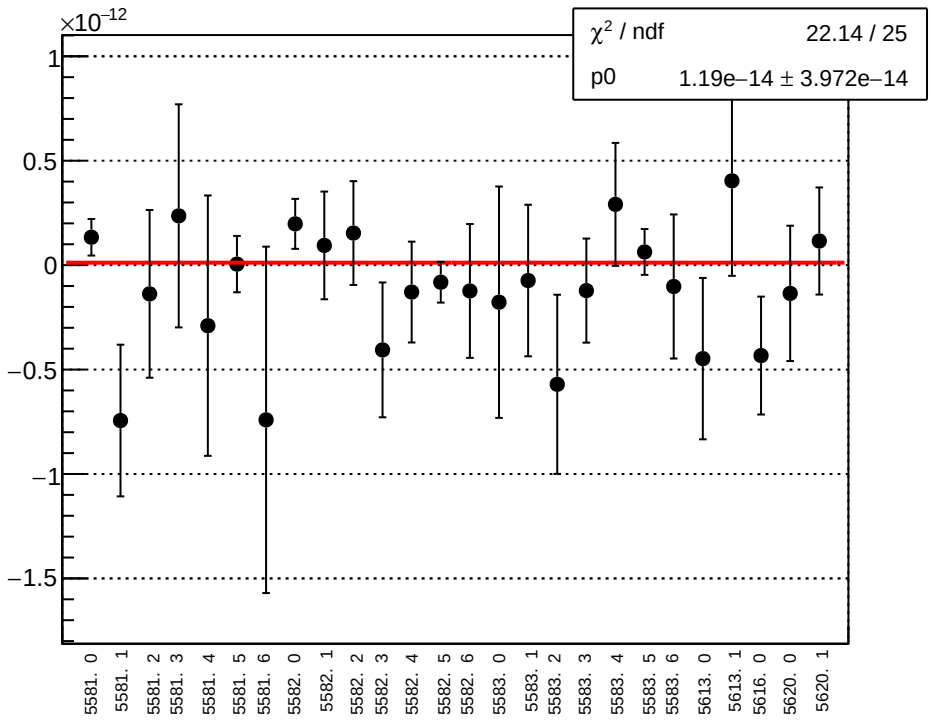

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 994.2 / 32
p0 0.001083 ± 1.342e−06
0.0012
0.00115
0.0011
0.00105
0.001
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

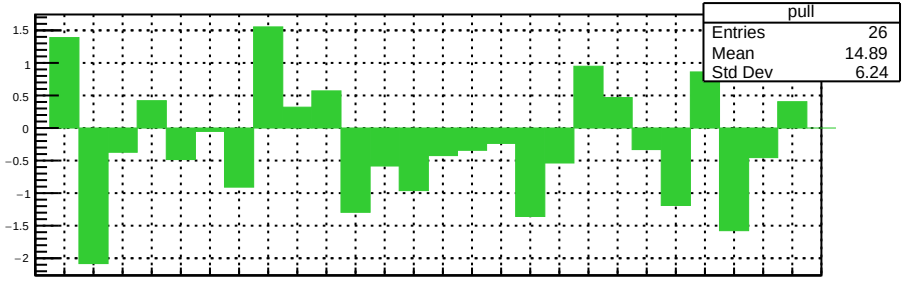

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.41 / 32
p0 −0.03193 ± 0.06585
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.74
Std Dev 12.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.08191
Std Dev 0.9077
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

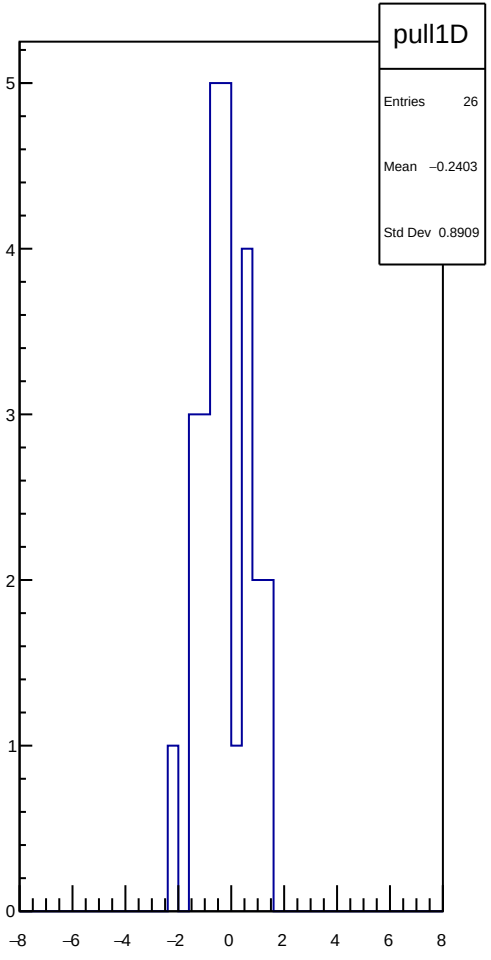

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.262e+05 / 32
p0 30.38 ± 0.04657
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

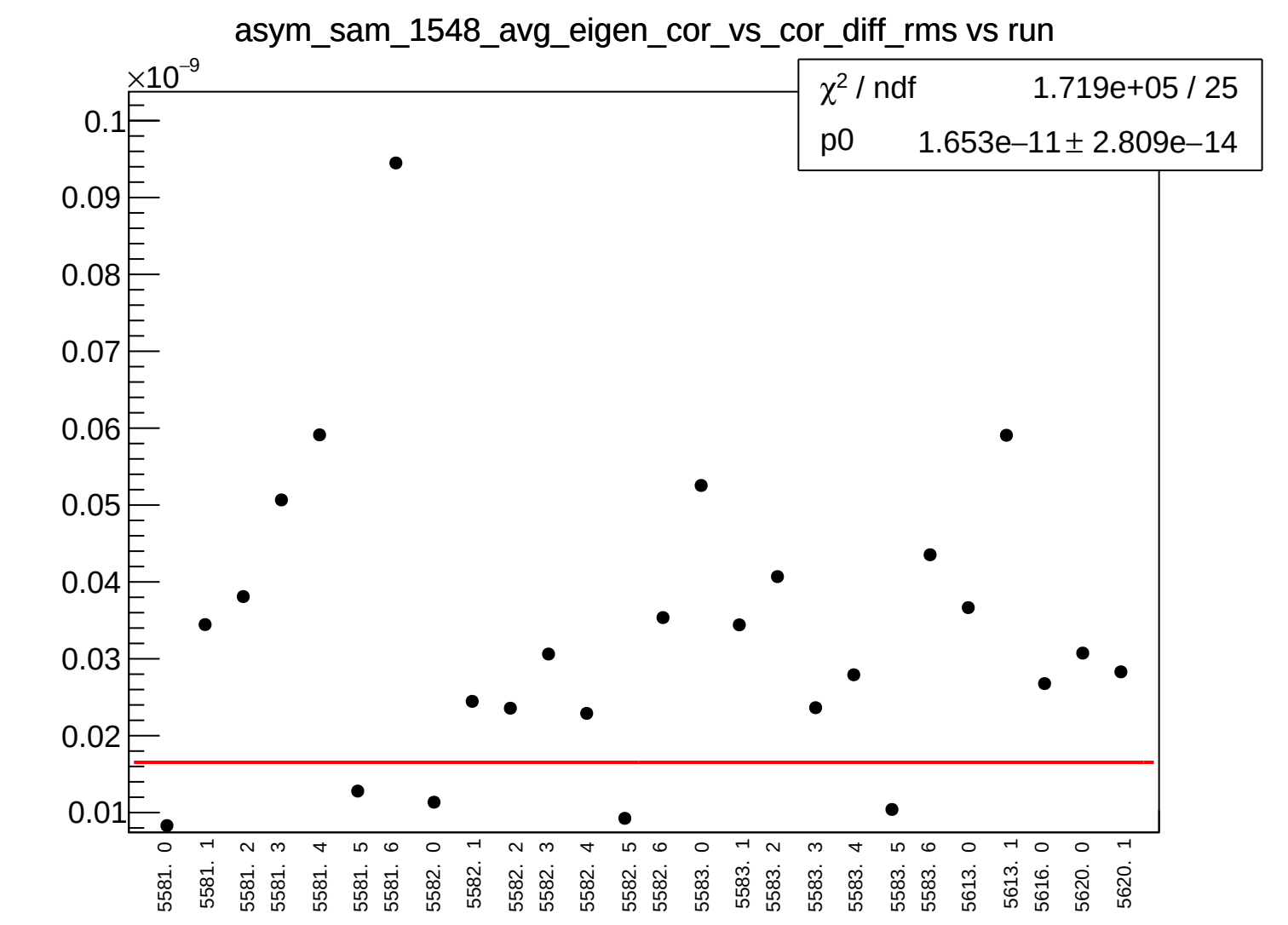

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.41 / 32
p0 −0.03193 ± 0.06585
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.74
Std Dev 12.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.08191
Std Dev 0.9077
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

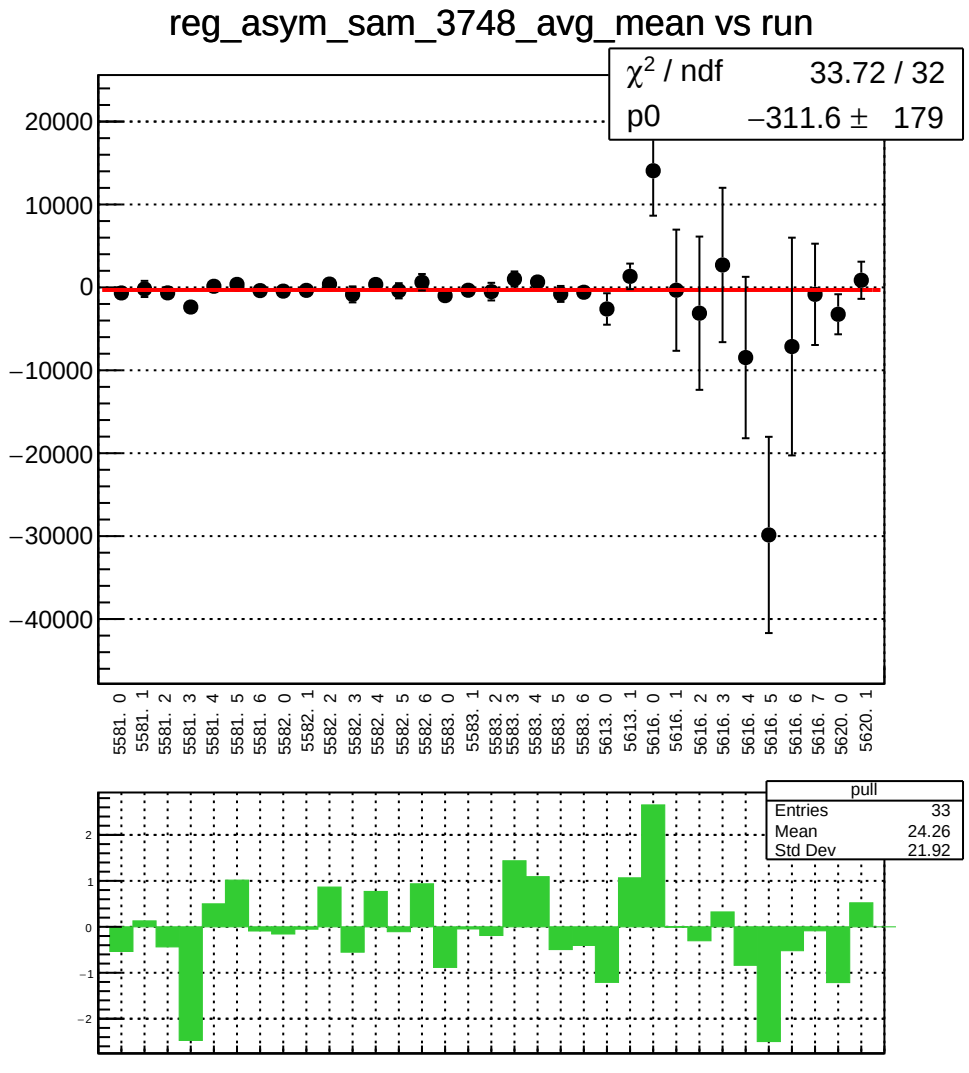

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.262e+05 / 32
p0 30.38 ± 0.04657
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

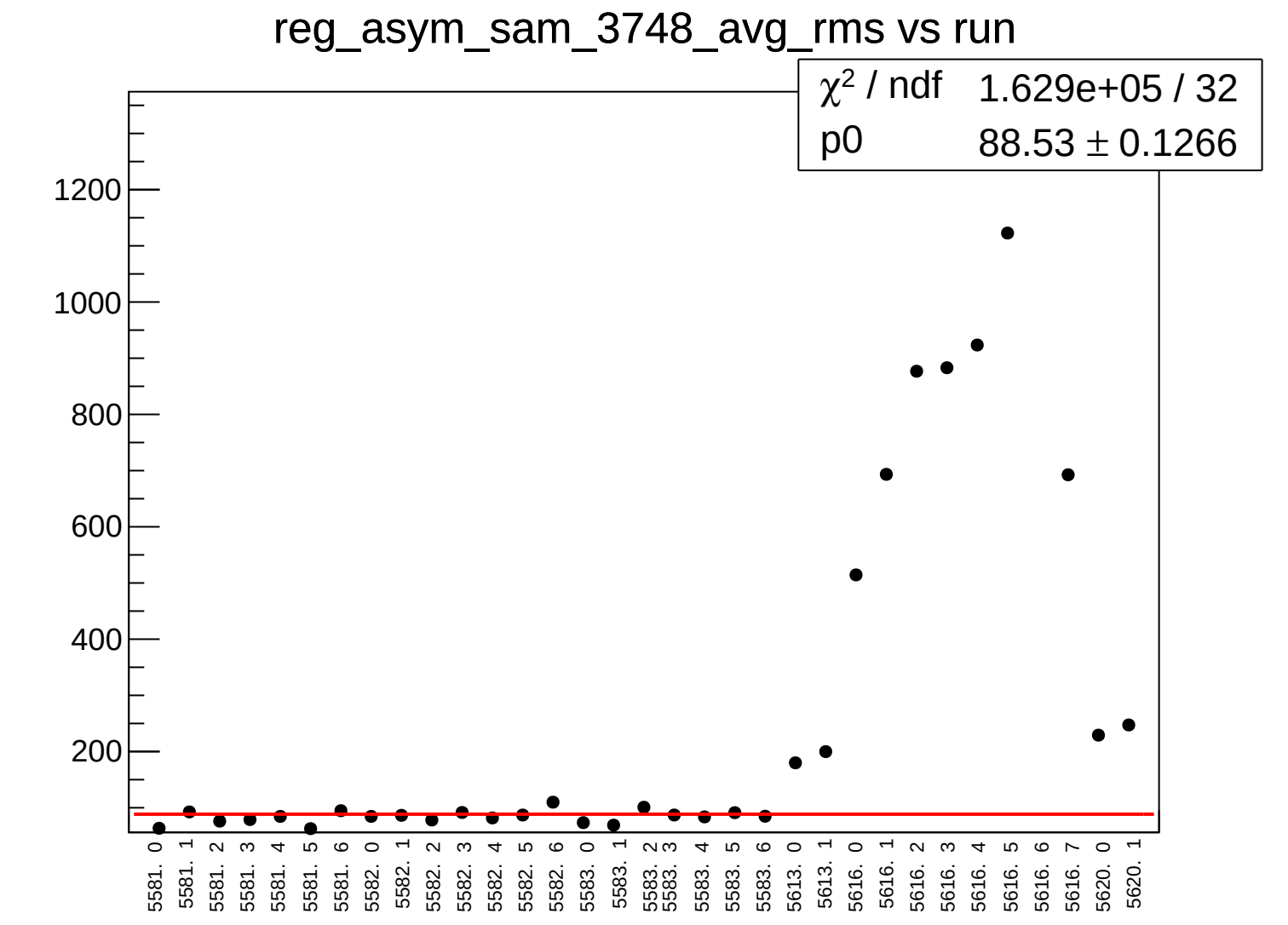

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 22.14 / 25
p0 1.19e−14 ± 3.972e−14
1
0.5
0
−0.5
−1
−1.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

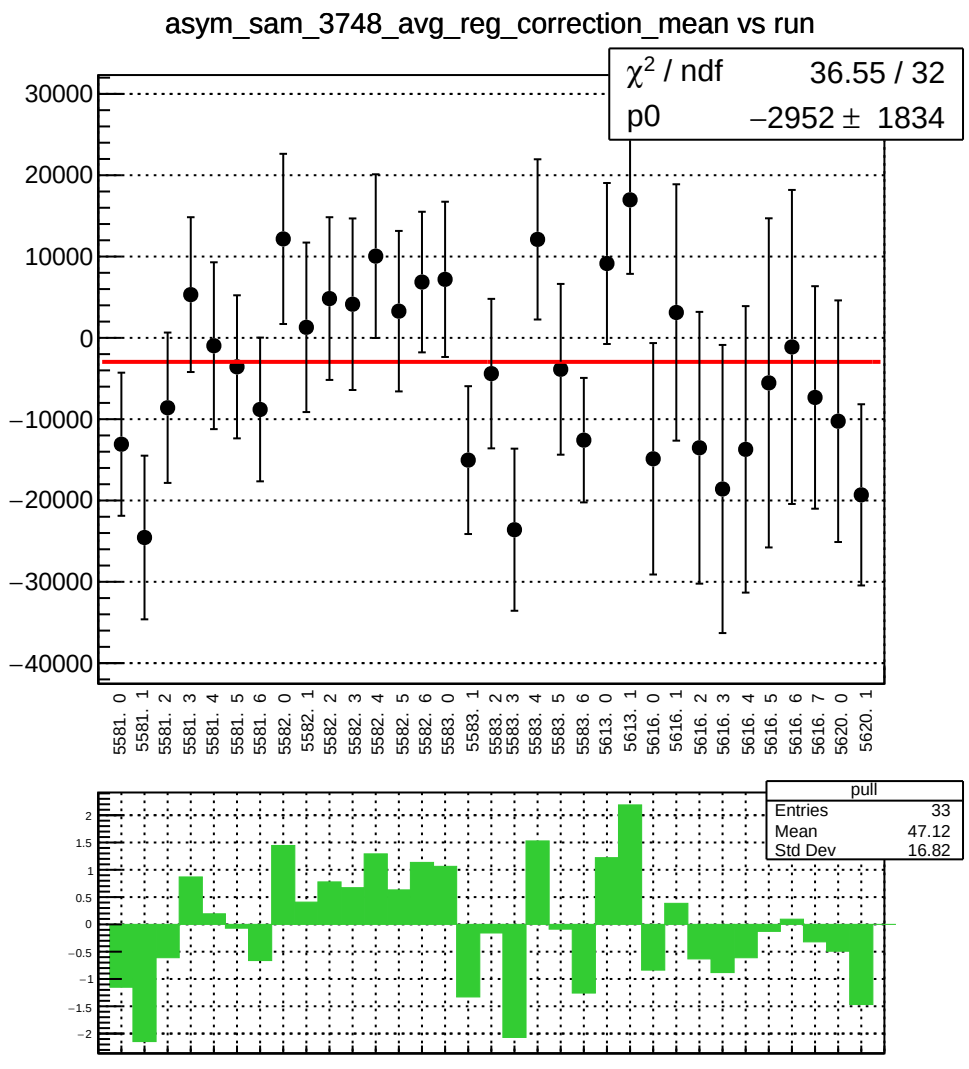

pull
Entries 26
Mean 14.89
Std Dev 6.24
1.5
1
0.5
0
−0.5
−1
−1.5
−2

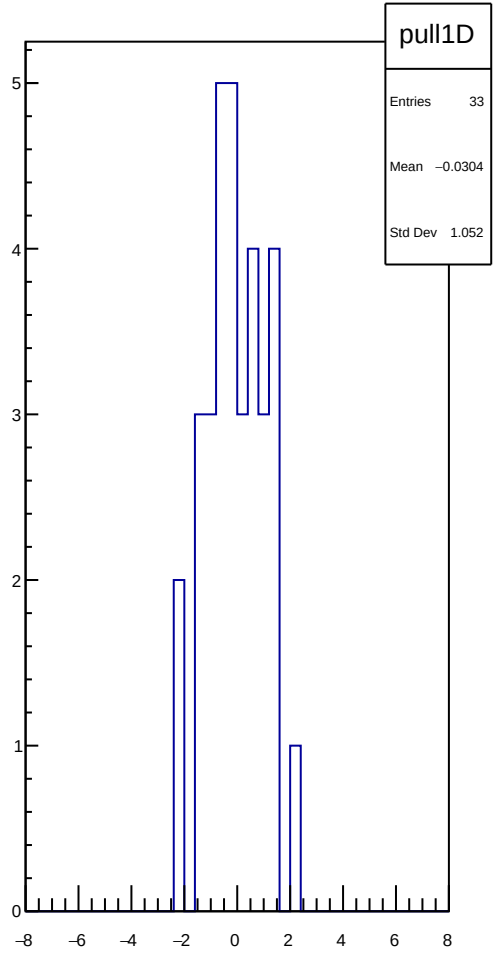

pull1D
Entries 26
Mean −0.2403
Std Dev 0.8909
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

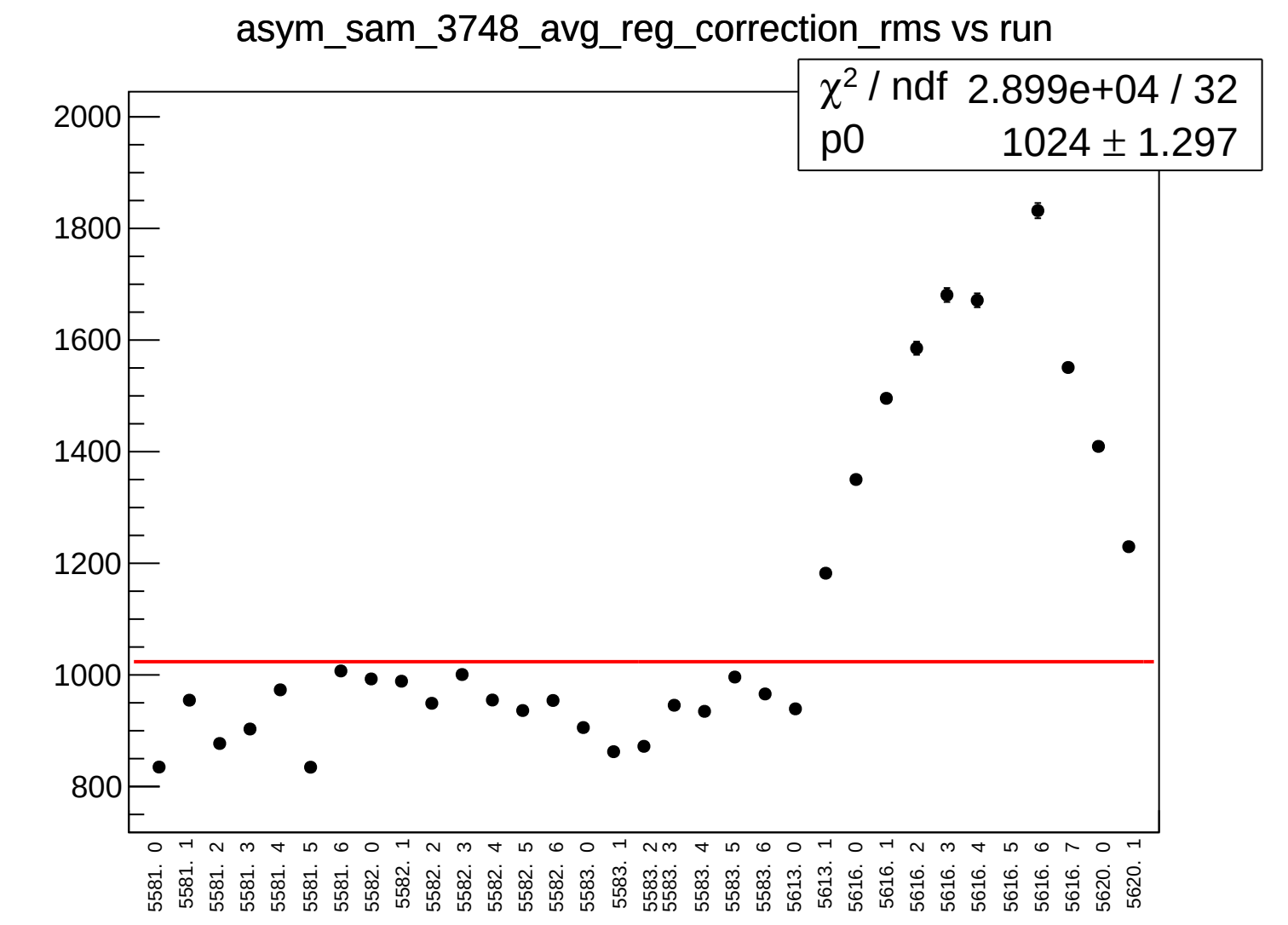

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.719e+05 / 25
p0 1.653e−11 ± 2.809e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

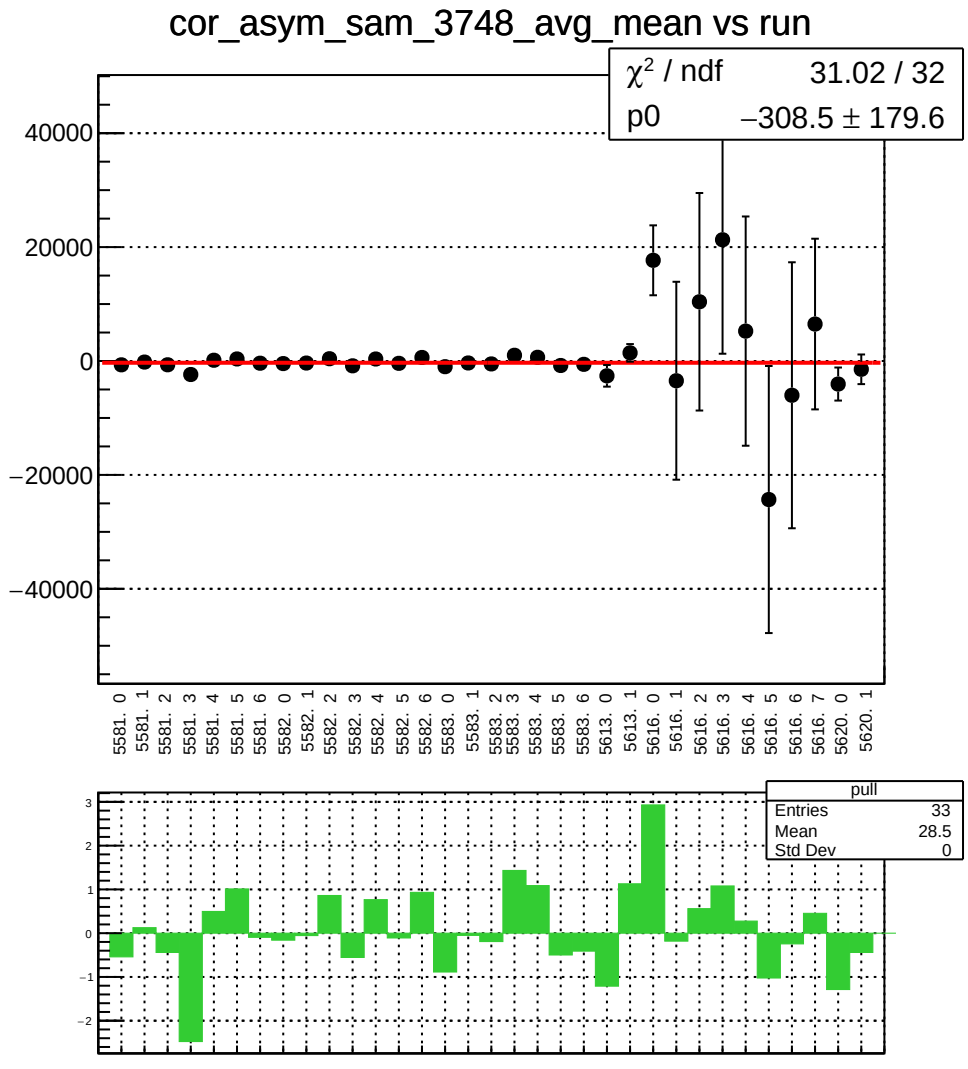

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 33.72 / 32
p0 −311.6 ± 179
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.26
Std Dev 21.92
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.05388
Std Dev 1.009
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

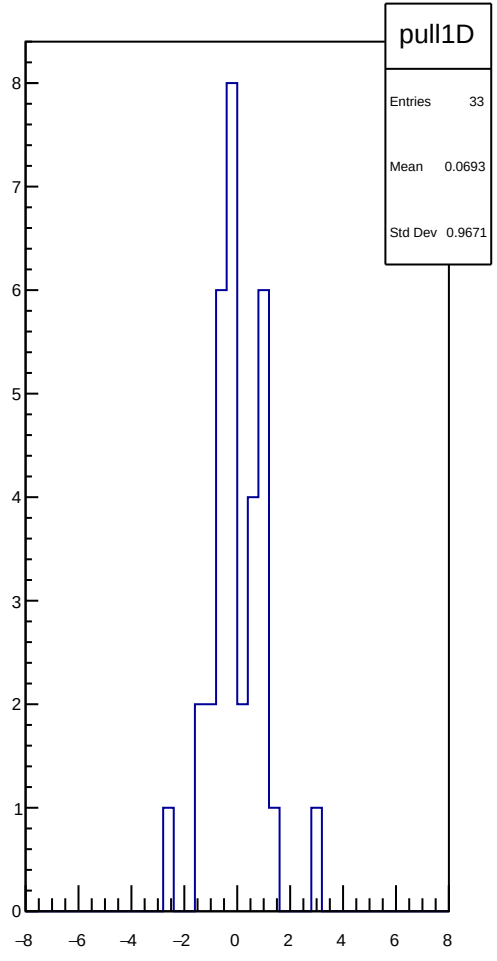

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1.629e+05 / 32
p0 88.53 ± 0.1266
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

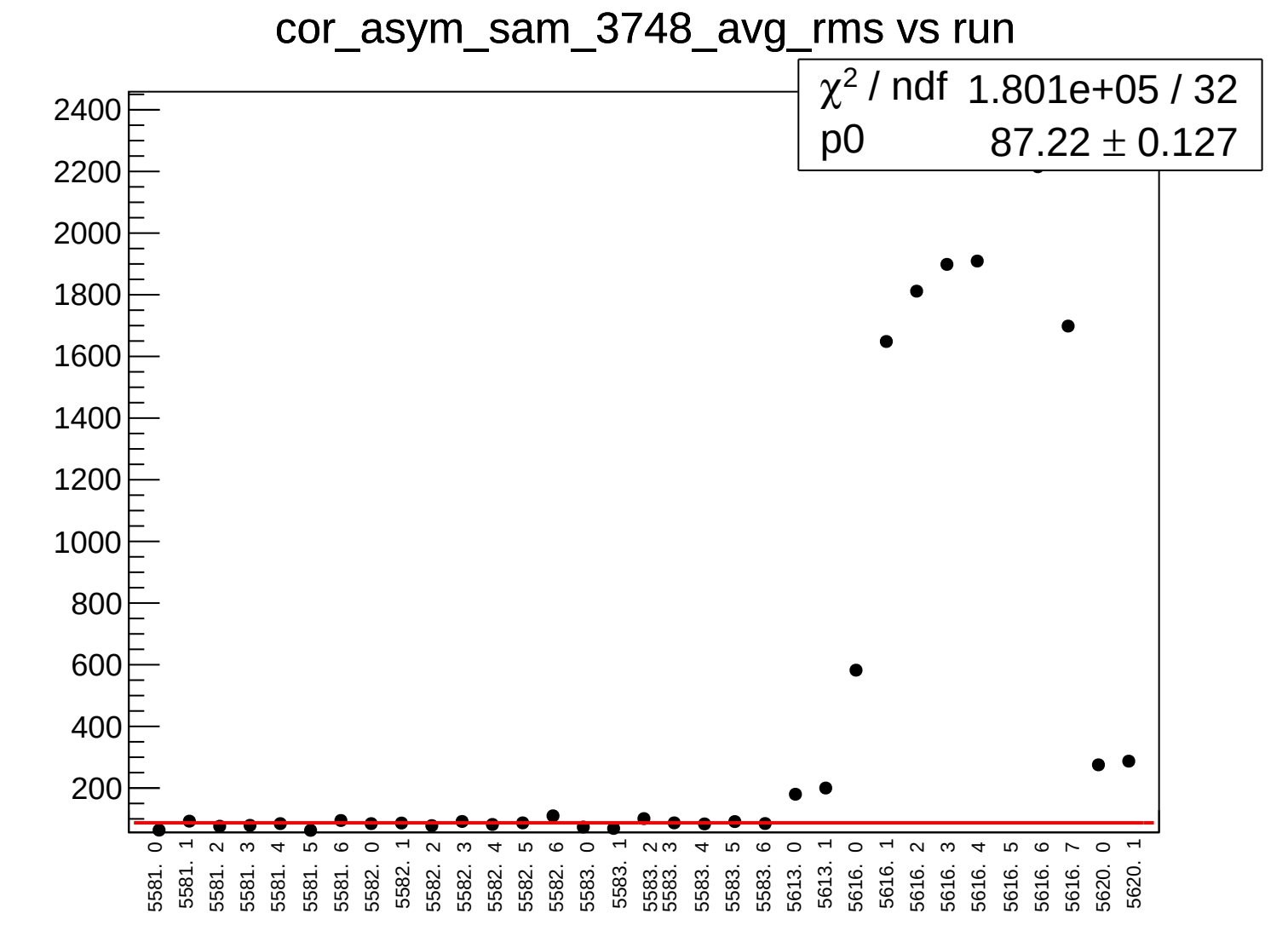

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 36.55 / 32
p0 −2952 ± 1834
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 47.12
Std Dev 16.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

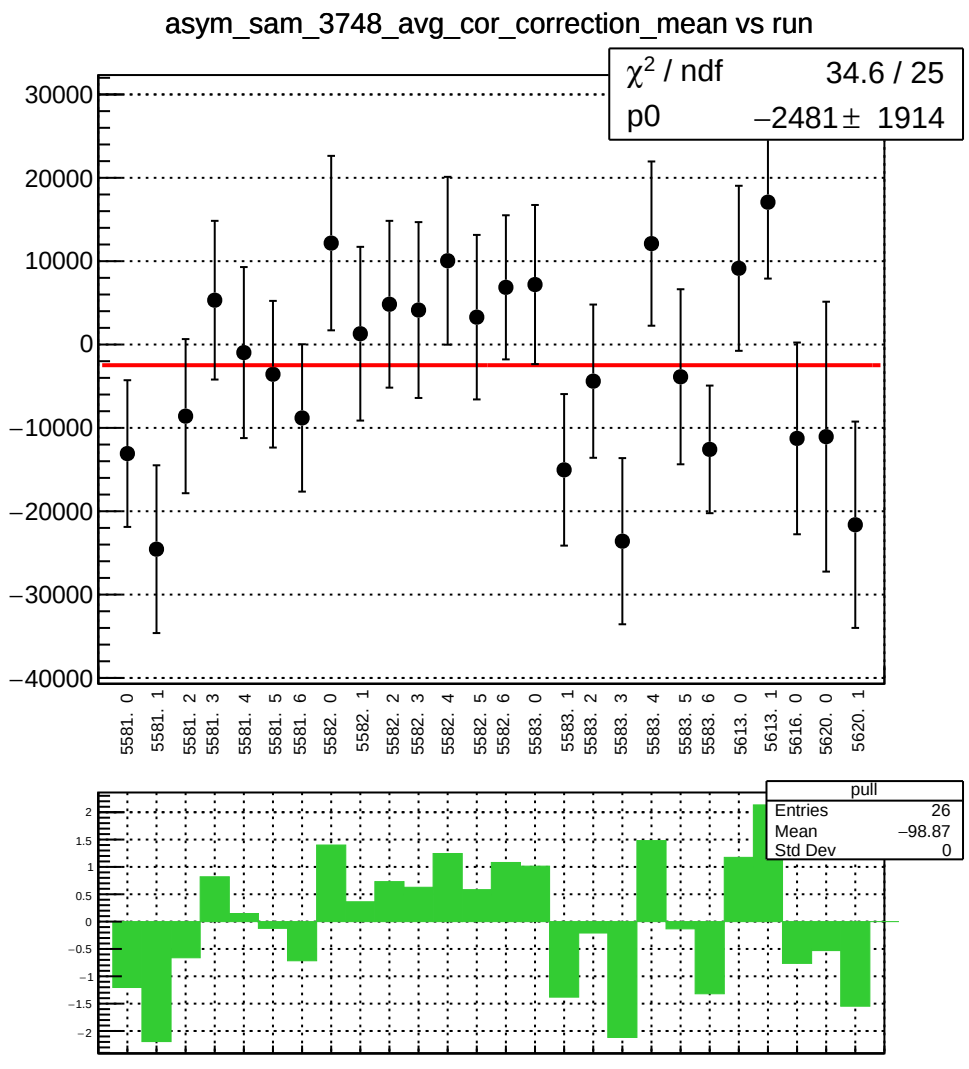

pull1D
Entries 33
Mean −0.0304
Std Dev 1.052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

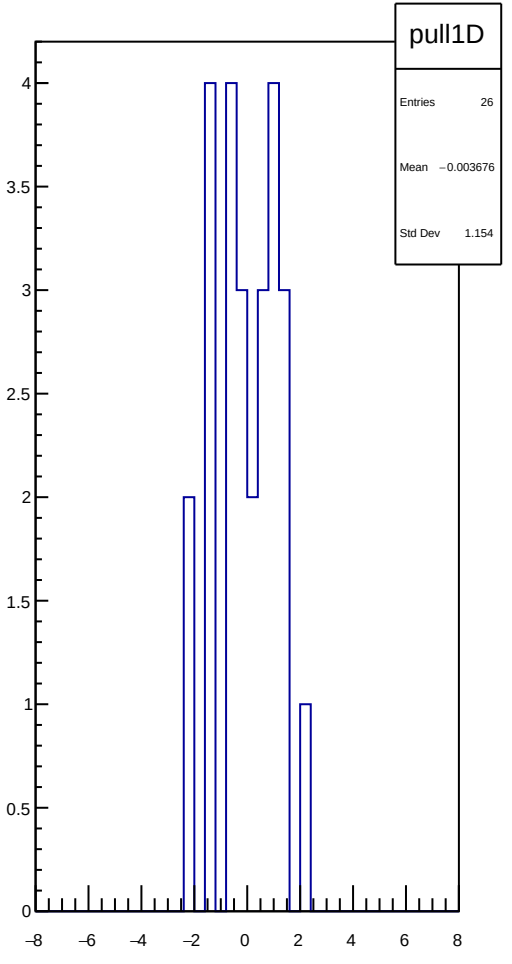

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 2.899e+04 / 32
p0 1024 ± 1.297
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

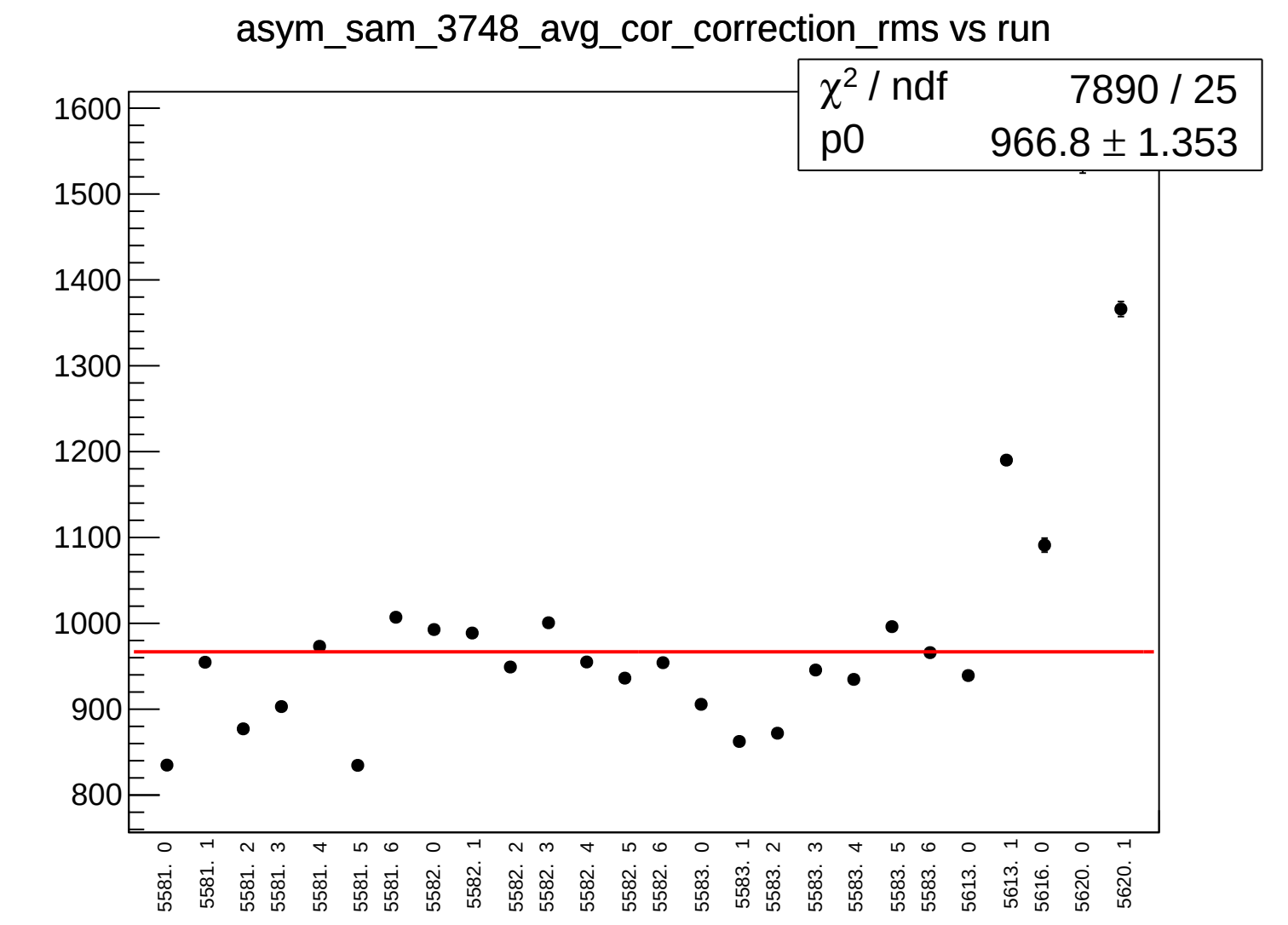

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 31.02 / 32
p0 −308.5 ± 179.6
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.5
Std Dev 0
3
2
1
0
−1
−2

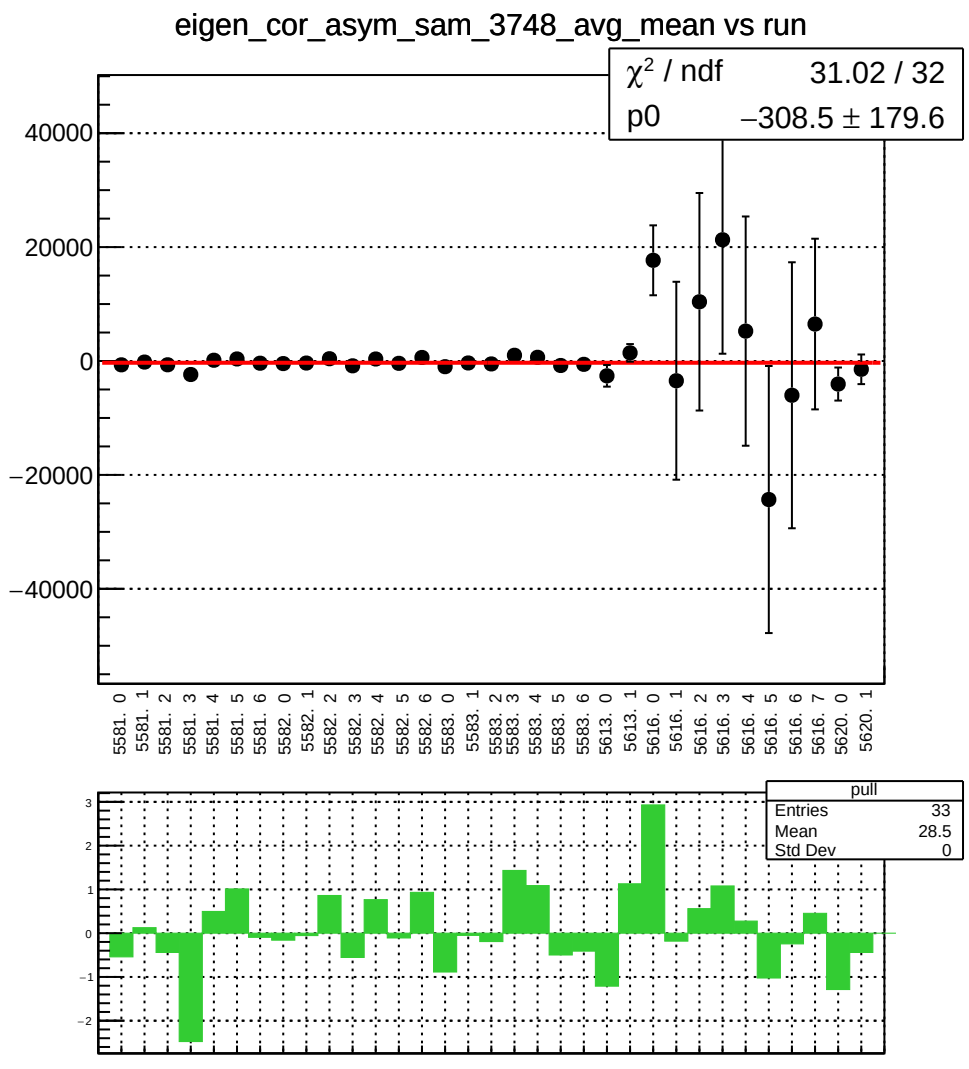

pull1D
Entries 33
Mean 0.0693
Std Dev 0.9671
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

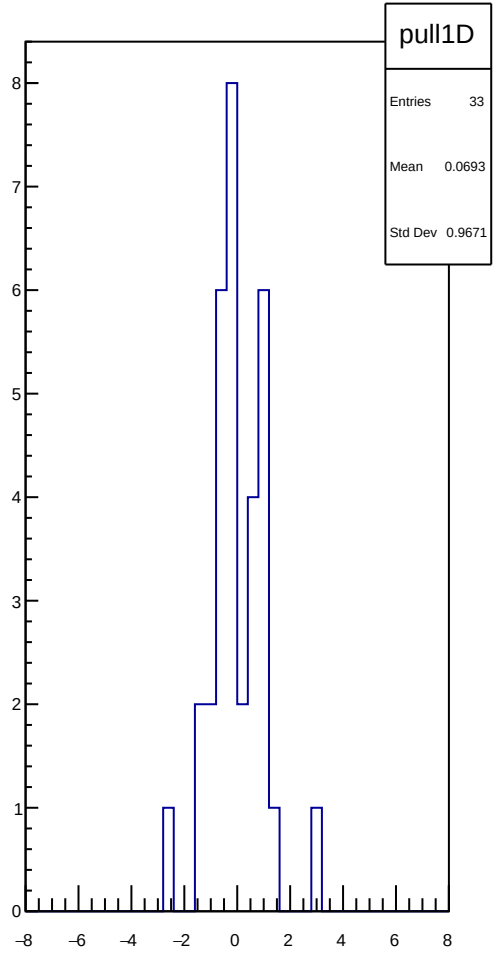

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.801e+05 / 32
p0 87.22 ± 0.127
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

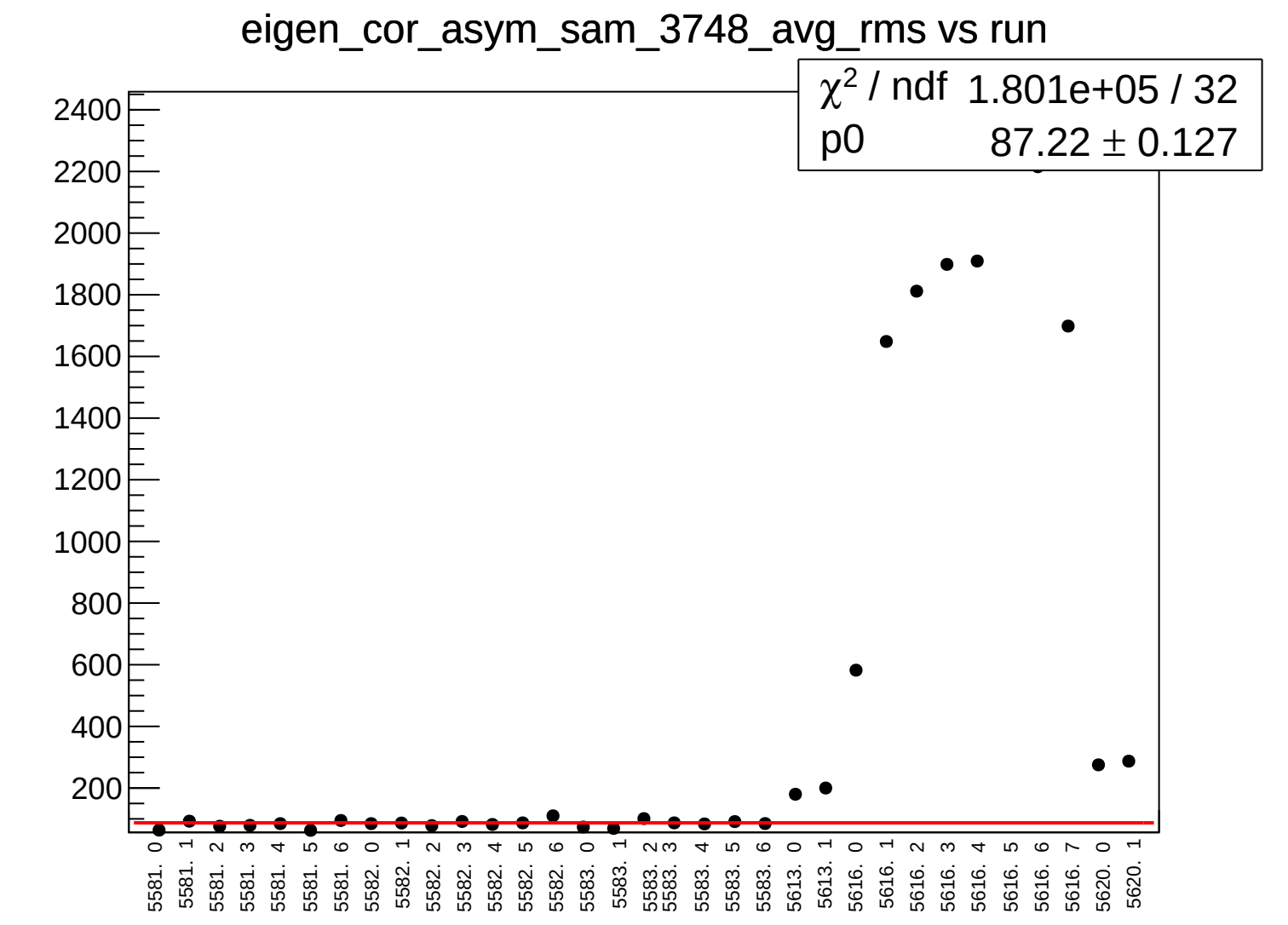

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 34.6 / 25
p0 −2481 ± 1914
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −98.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

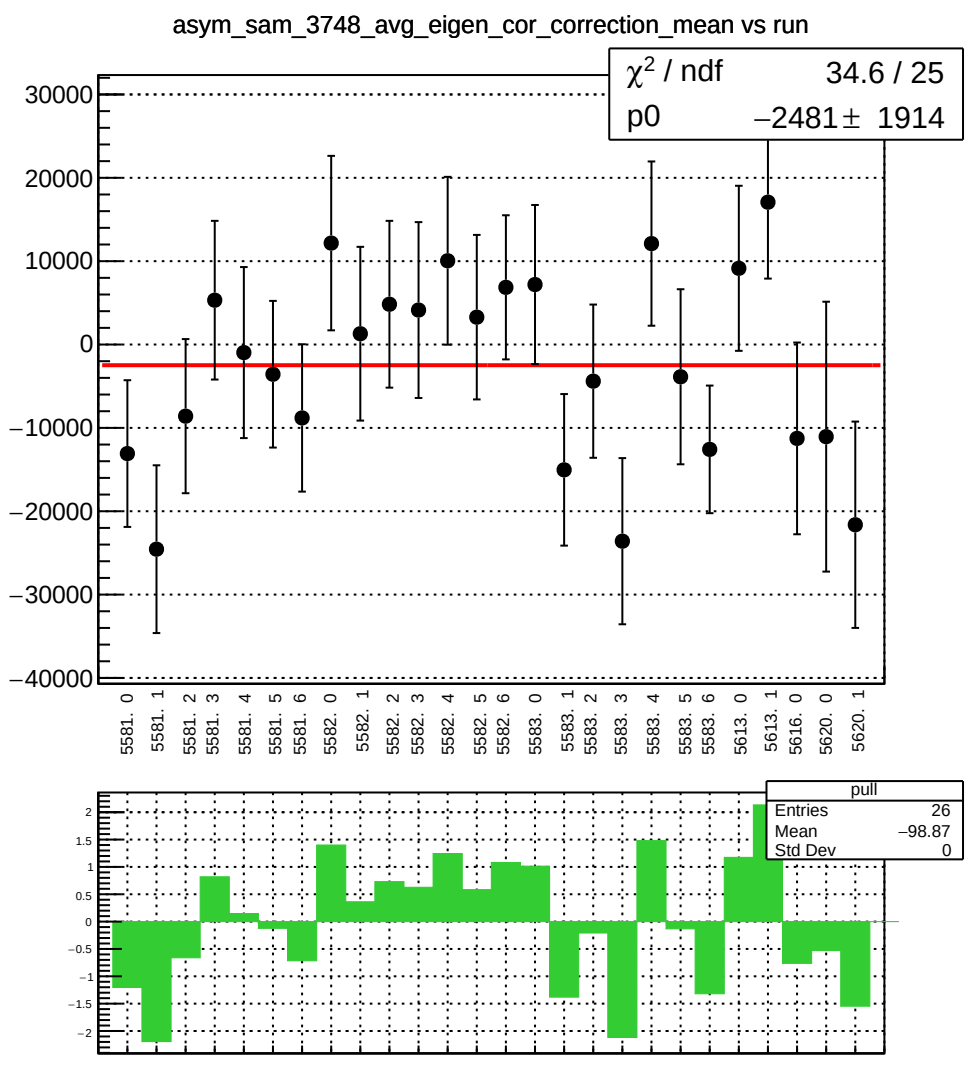

pull1D
Entries 26
Mean −0.003676
Std Dev 1.154
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

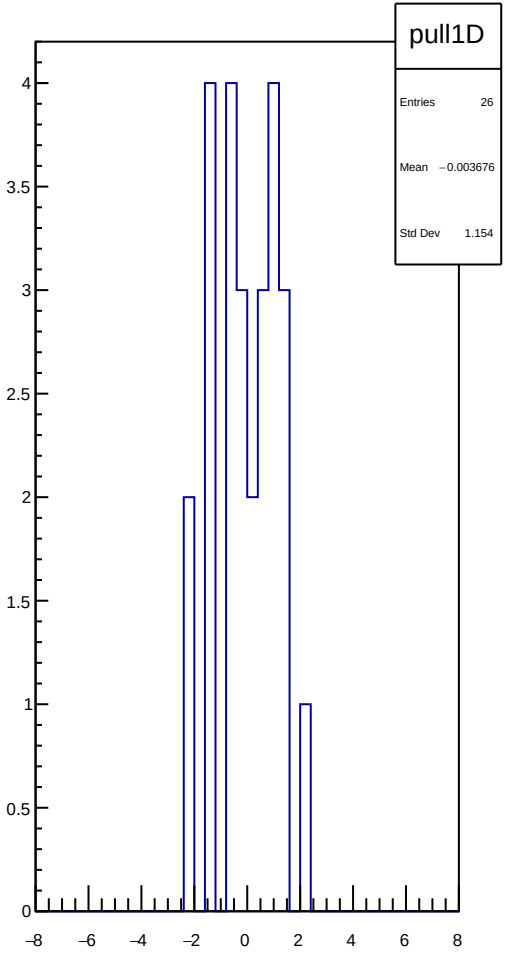

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 7890 / 25
p0 966.8 ± 1.353
1600
1500
1400
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

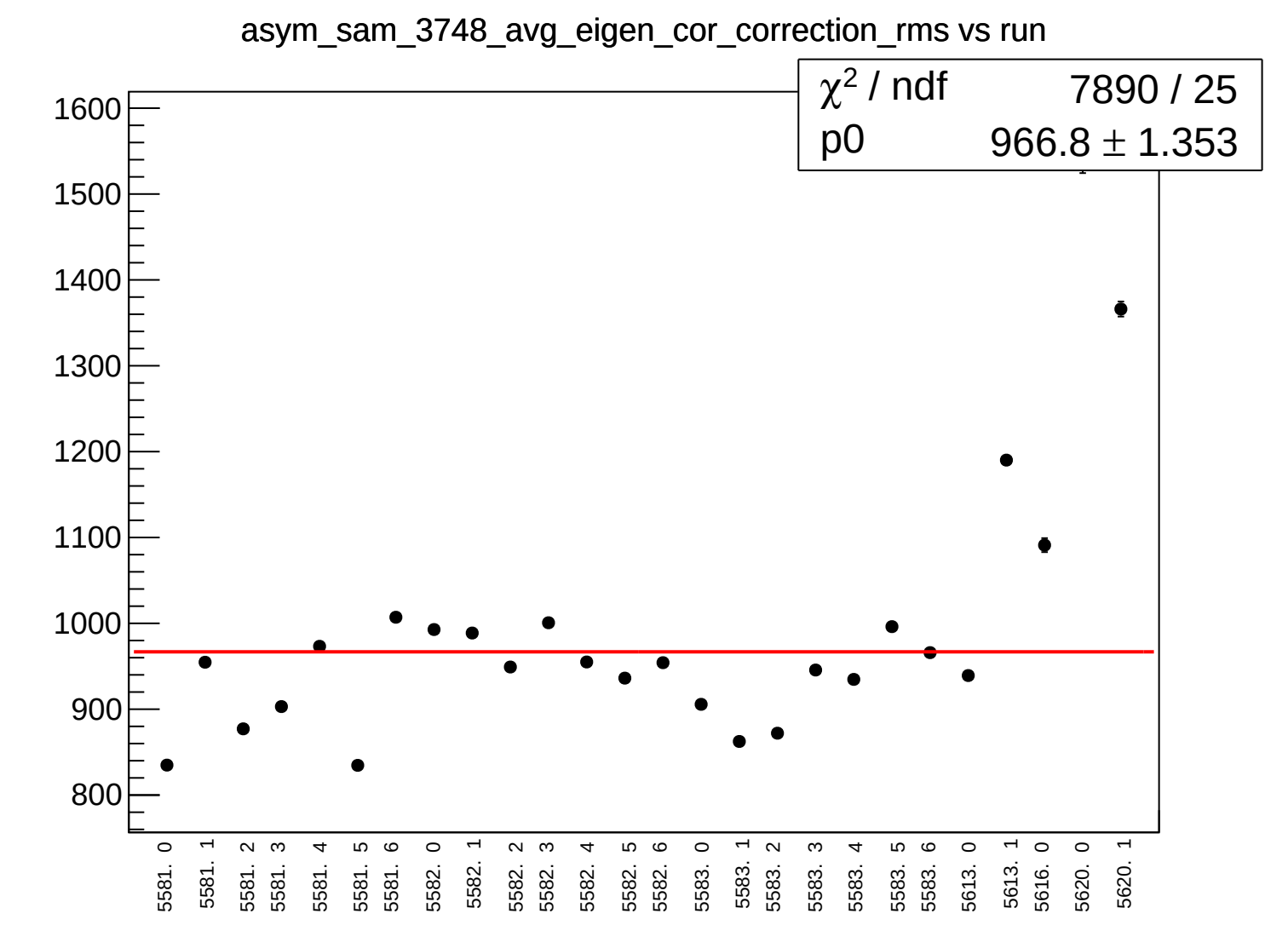

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 31.02 / 32
p0 −308.5 ± 179.6
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.5
Std Dev 0
3
2
1
0
−1
−2

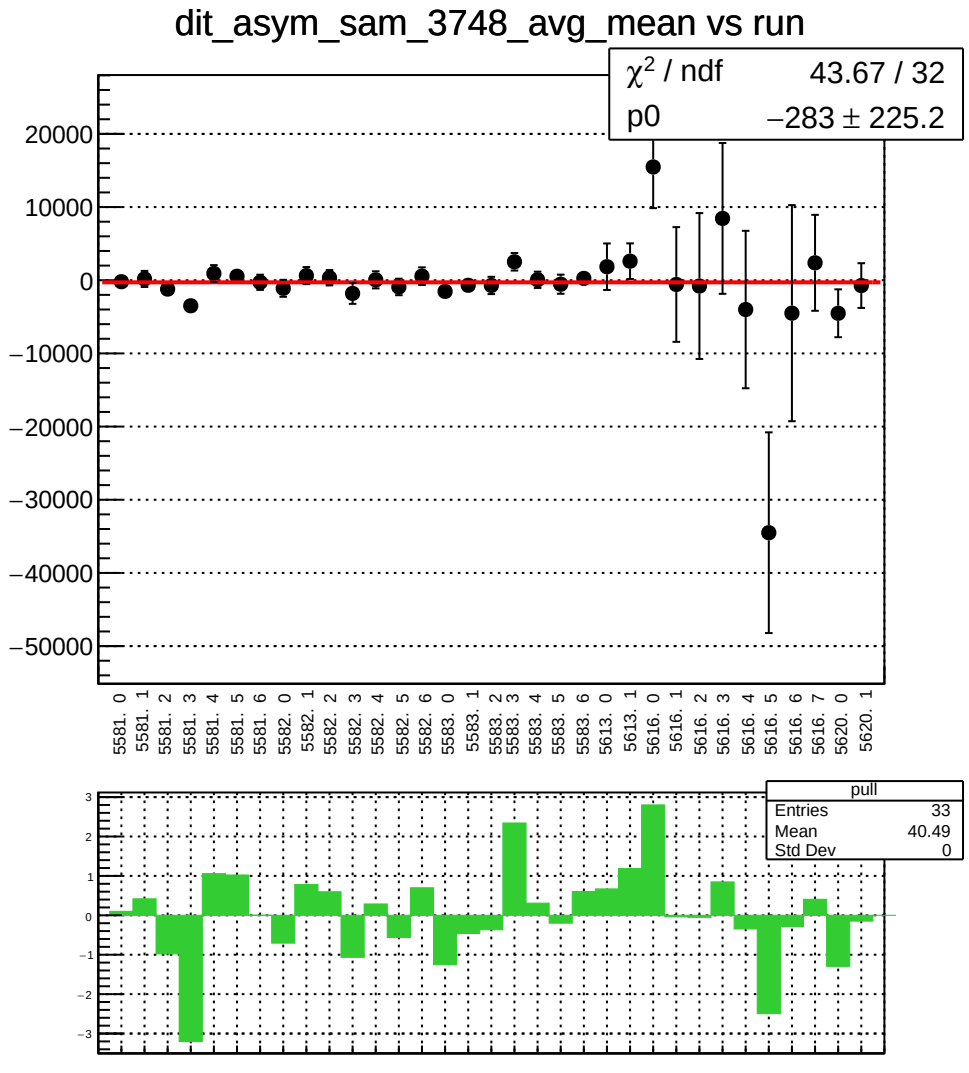

pull1D
Entries 33
Mean 0.0693
Std Dev 0.9671
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

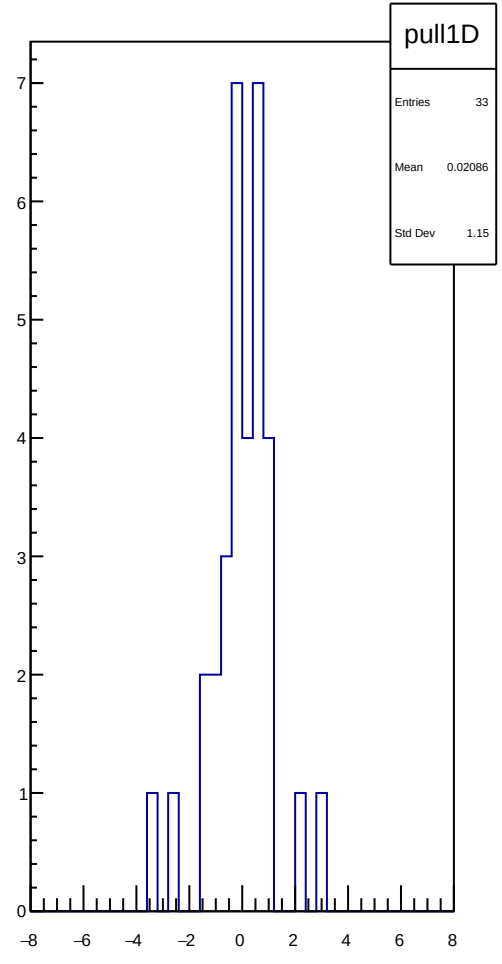

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.801e+05 / 32
p0 87.22 ± 0.127
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

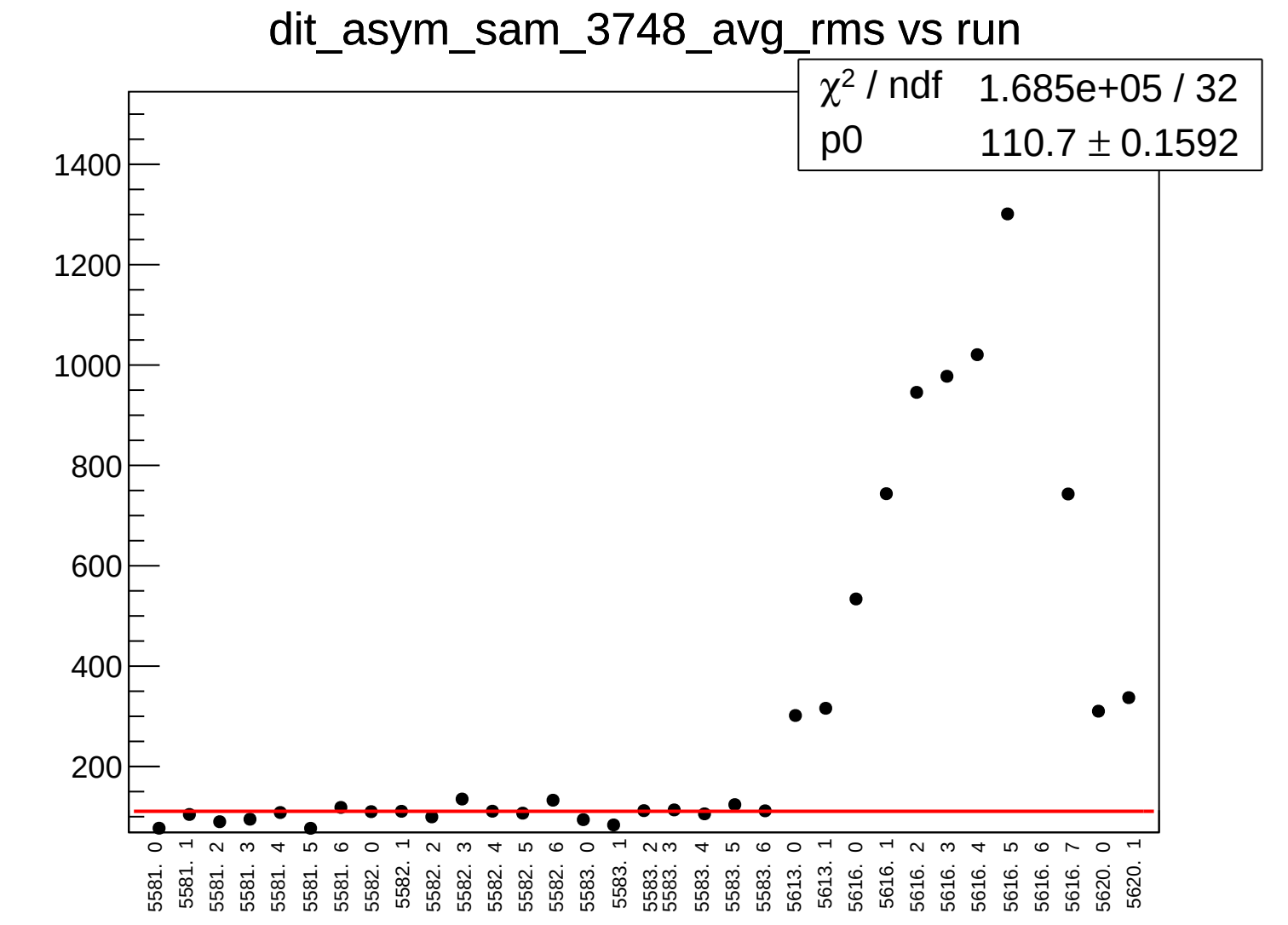

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 34.6 / 25
p0 −2481 ± 1914
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −98.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

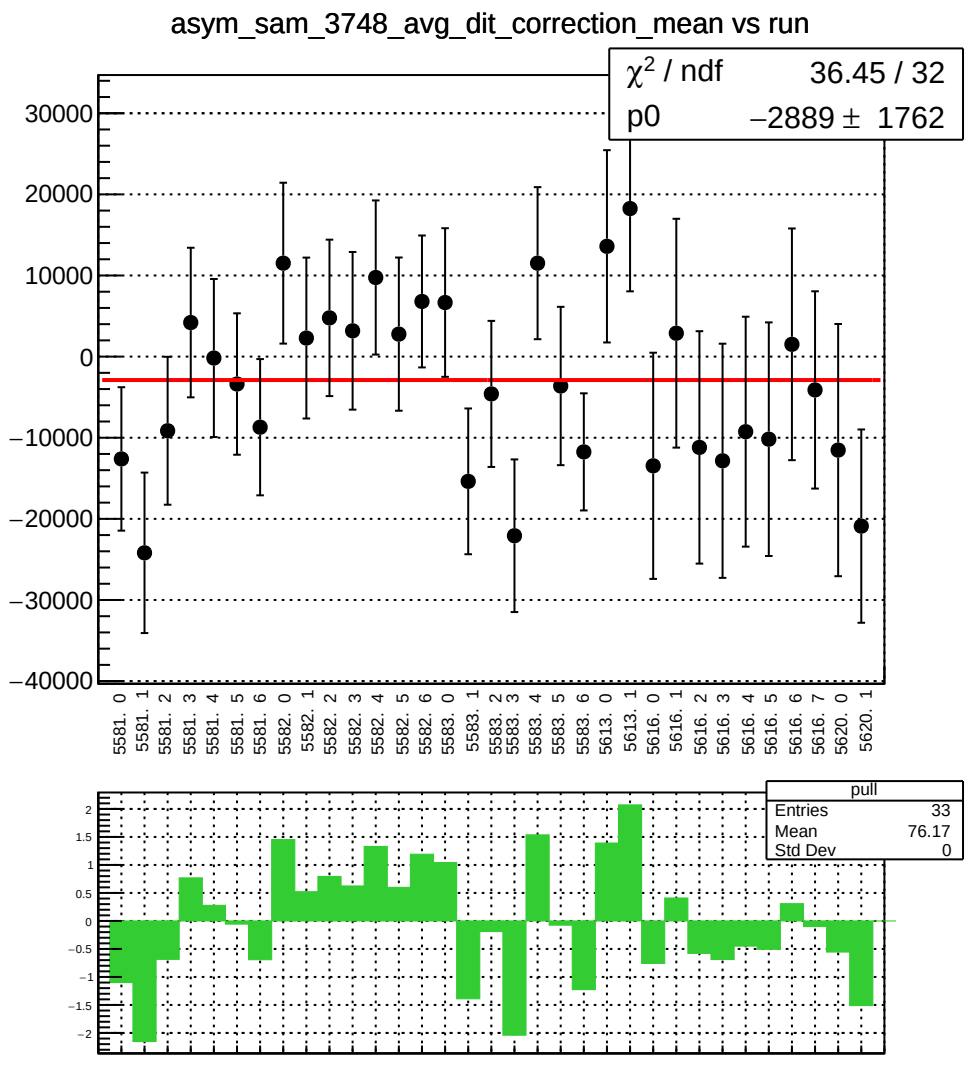

pull1D
Entries 26
Mean −0.003676
Std Dev 1.154
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

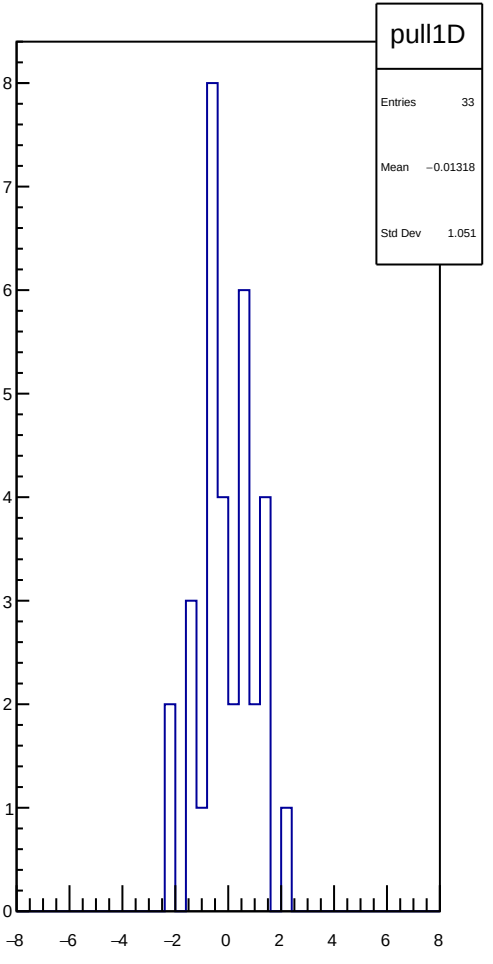

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 7890 / 25
p0 966.8 ± 1.353
1600
1500
1400
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

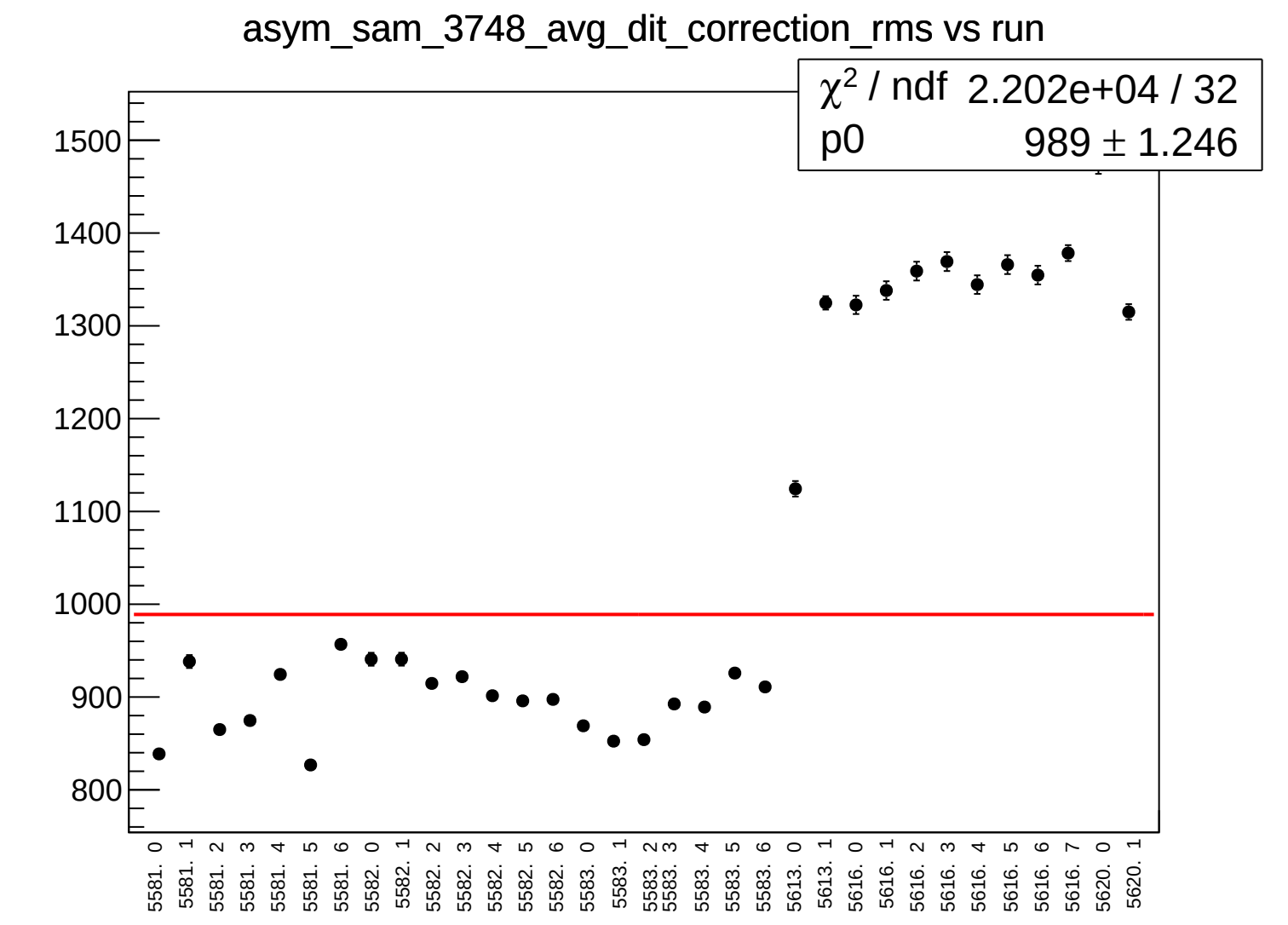

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 43.67 / 32
p0 −283 ± 225.2
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.49
Std Dev 0
3
2
1
0
−1
−2
−3

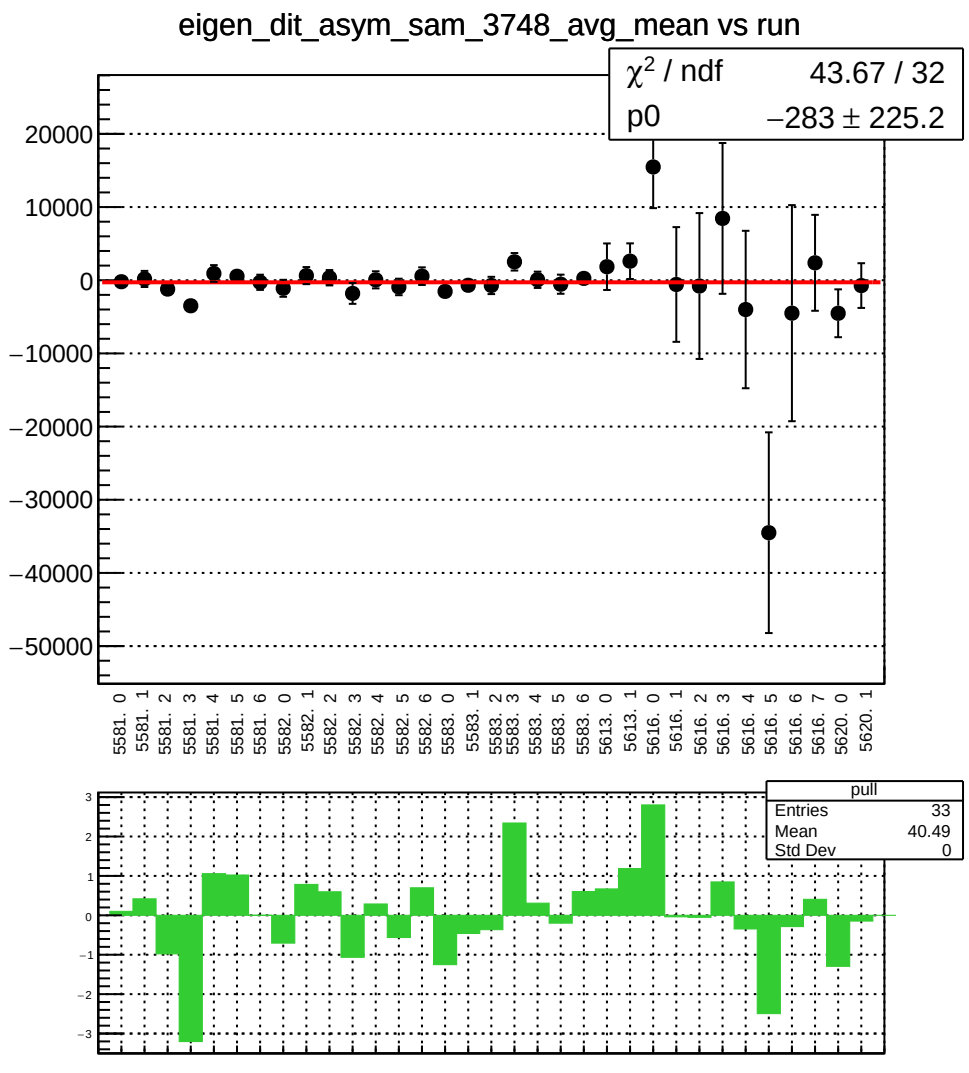

pull1D
Entries 33
Mean 0.02086
Std Dev 1.15
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

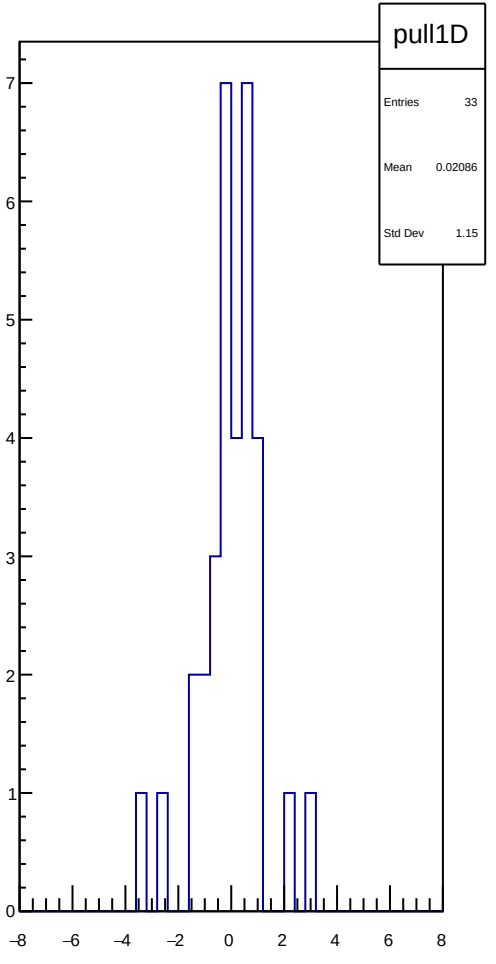

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.685e+05 / 32
p0 110.7 ± 0.1592
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

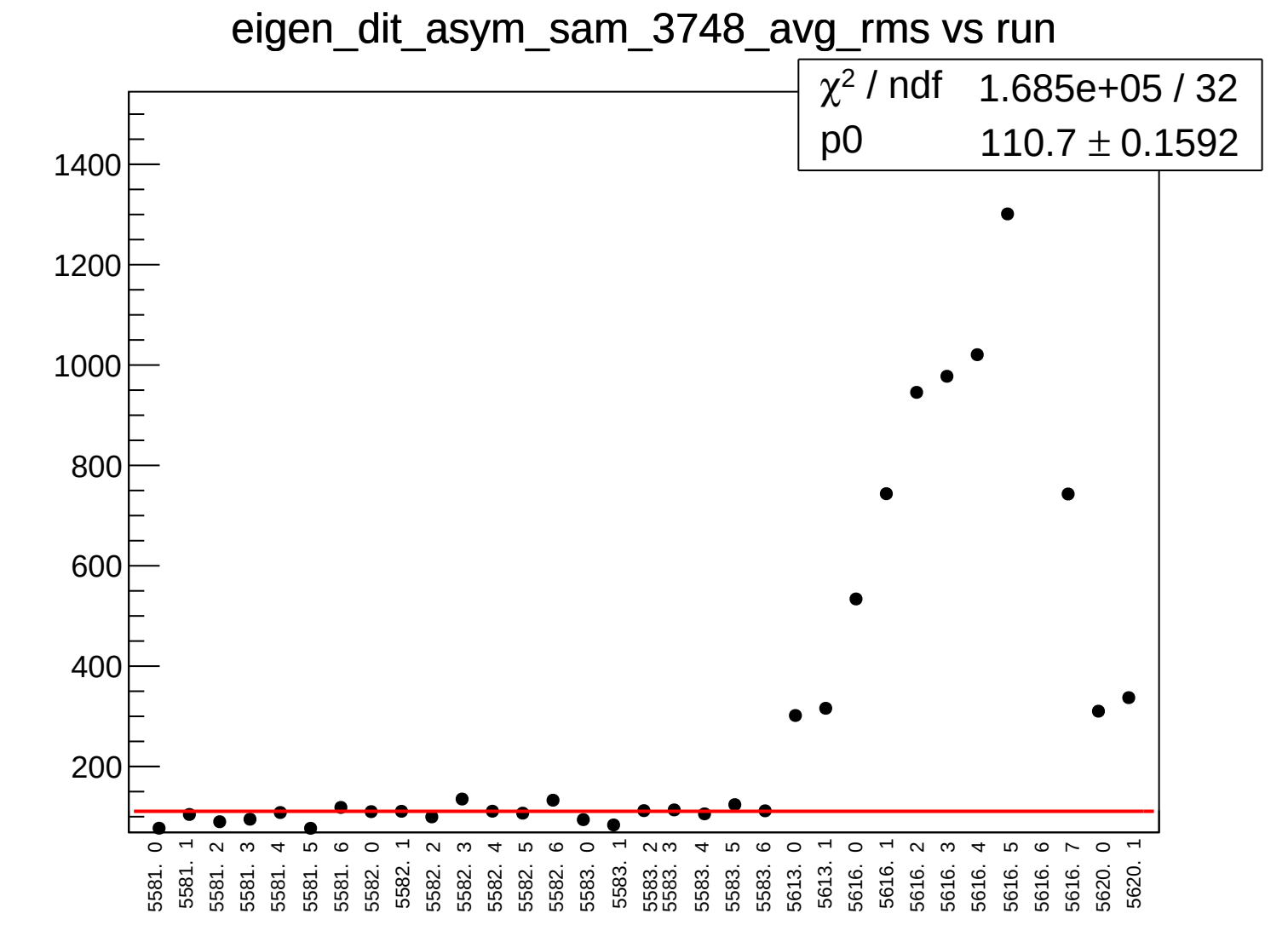

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 36.45 / 32
p0 −2889 ± 1762
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 76.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

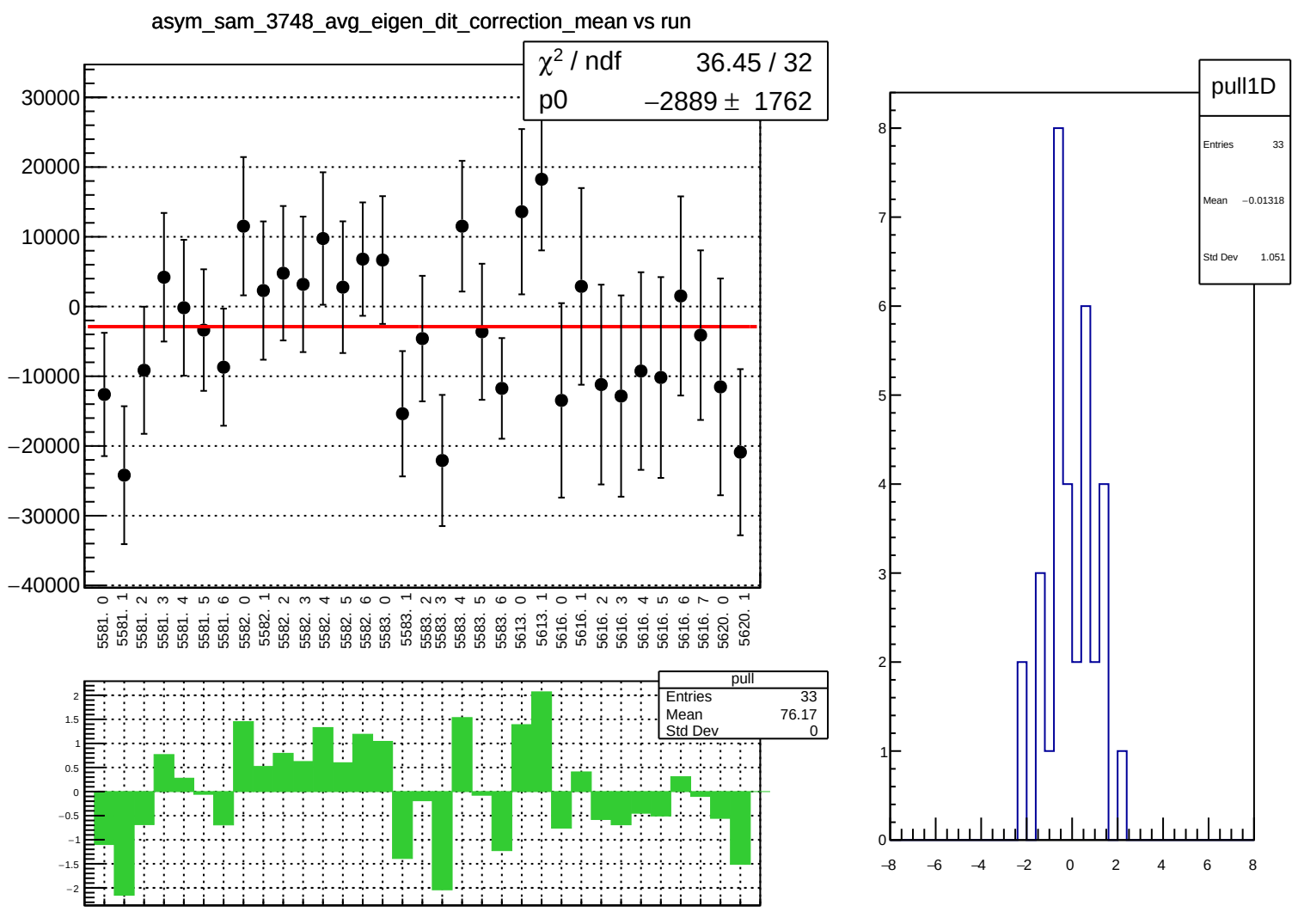

pull1D
Entries 33
Mean −0.01318
Std Dev 1.051
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

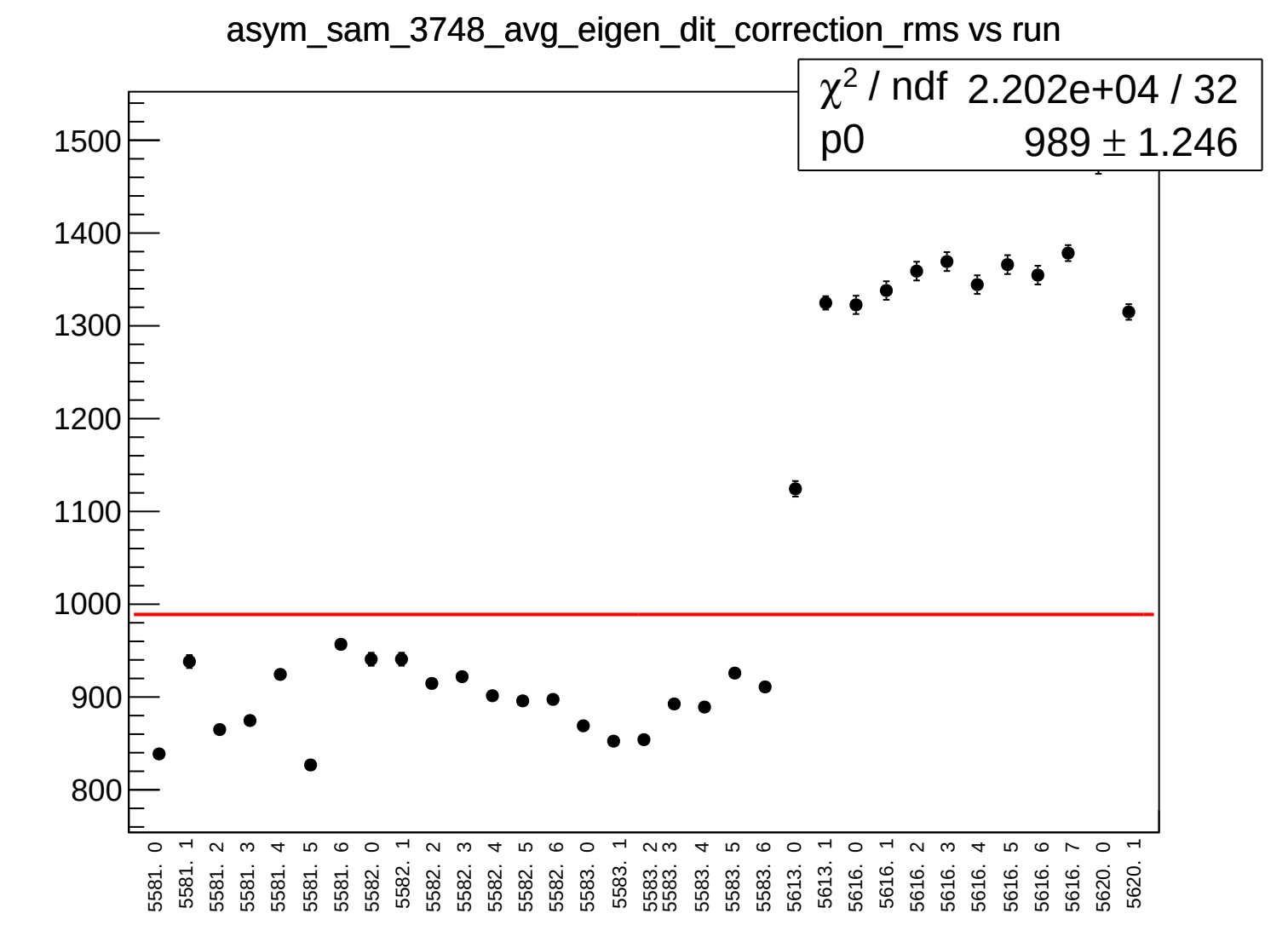

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 2.202e+04 / 32
p0 989 ± 1.246
1500
1400
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

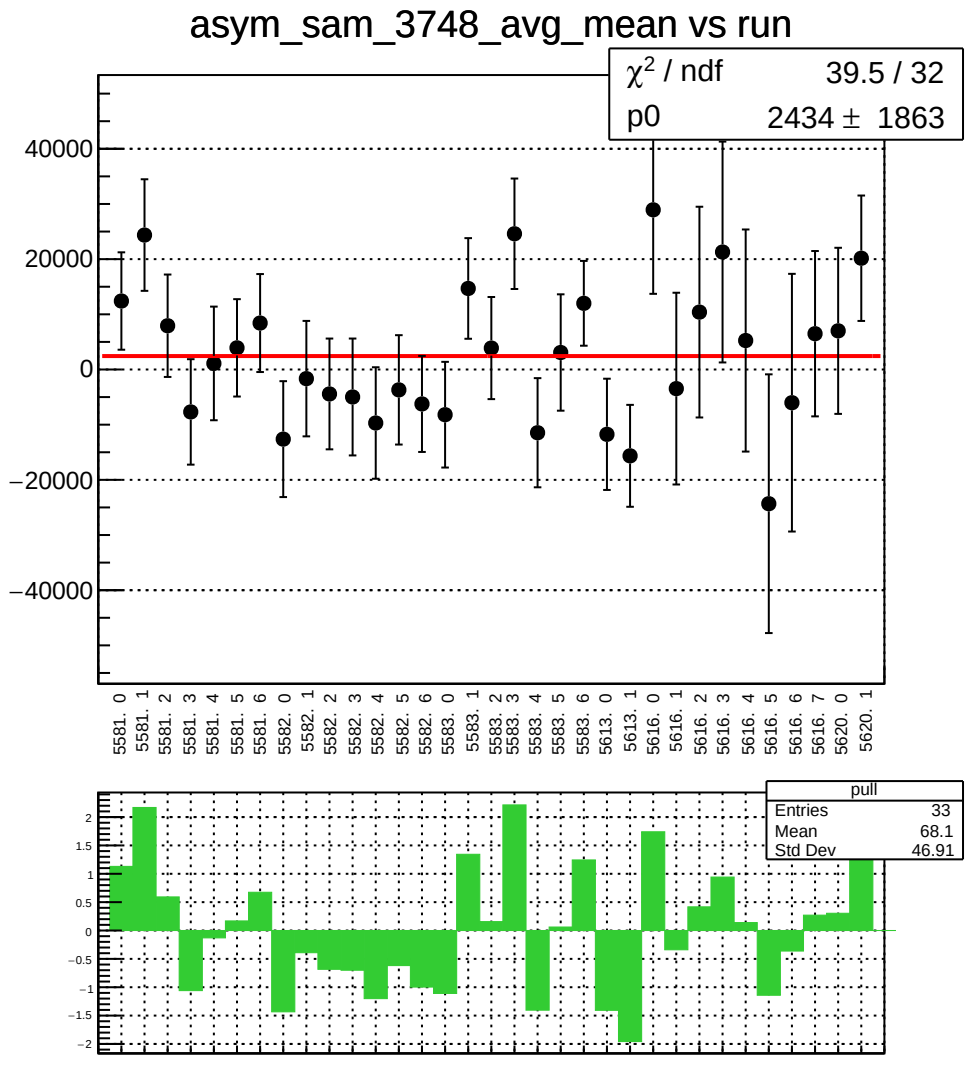

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 43.67 / 32
p0 −283 ± 225.2
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.49
Std Dev 0
3
2
1
0
−1
−2
−3

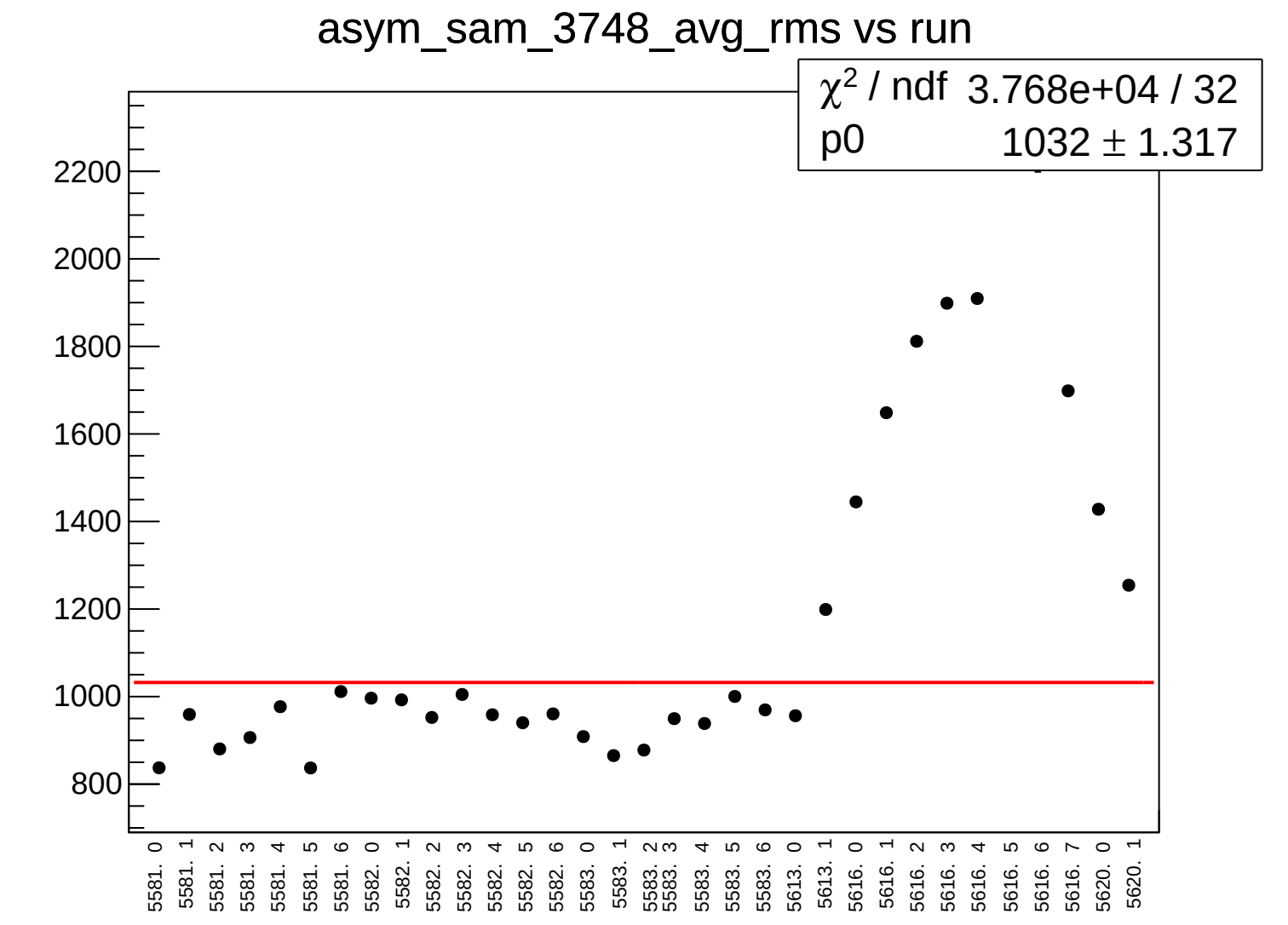

pull1D
Entries 33
Mean 0.02086
Std Dev 1.15
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

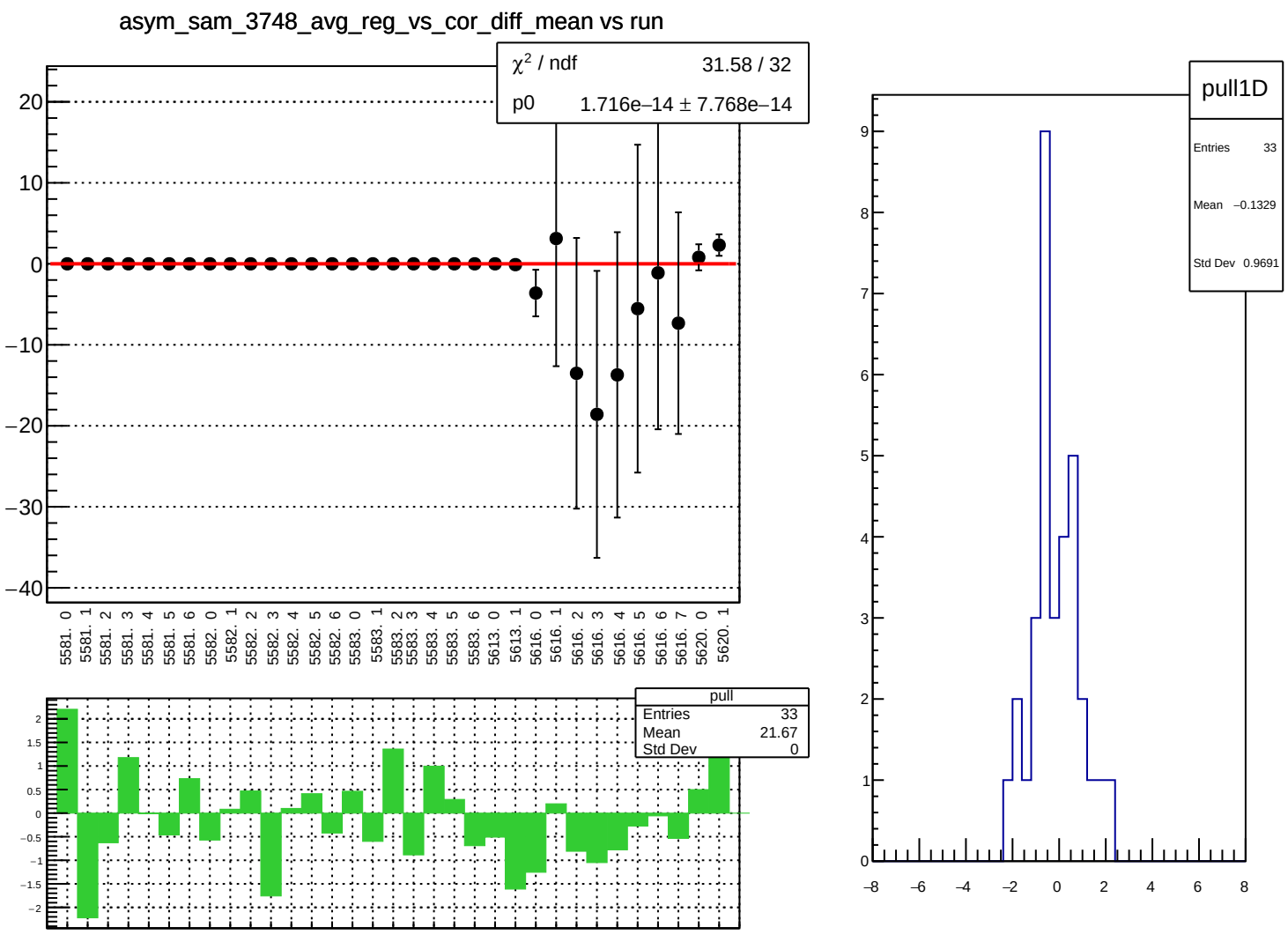

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.685e+05 / 32
p0 110.7 ± 0.1592
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

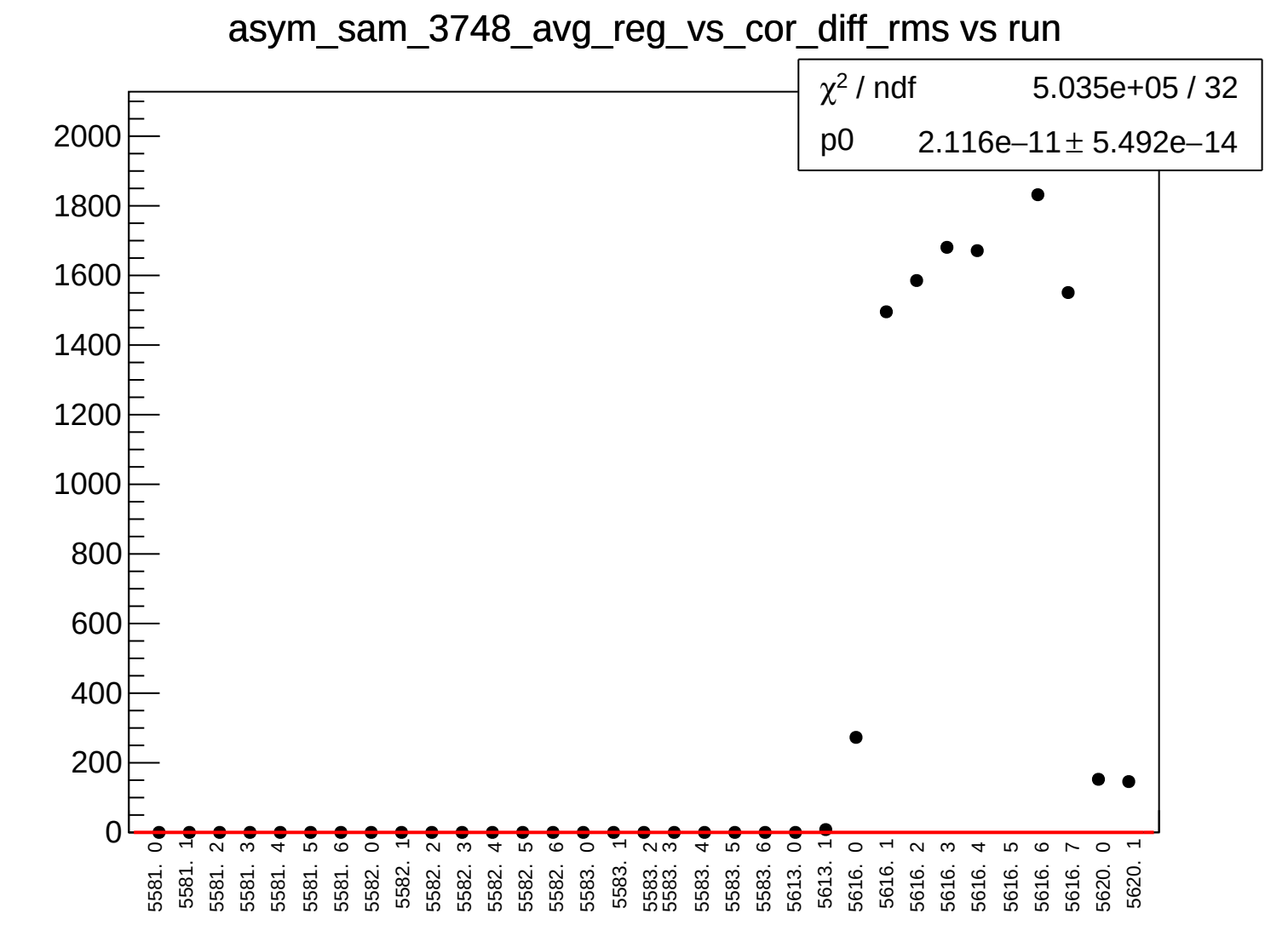

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 36.45 / 32
p0 −2889 ± 1762
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 76.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01318
Std Dev 1.051
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

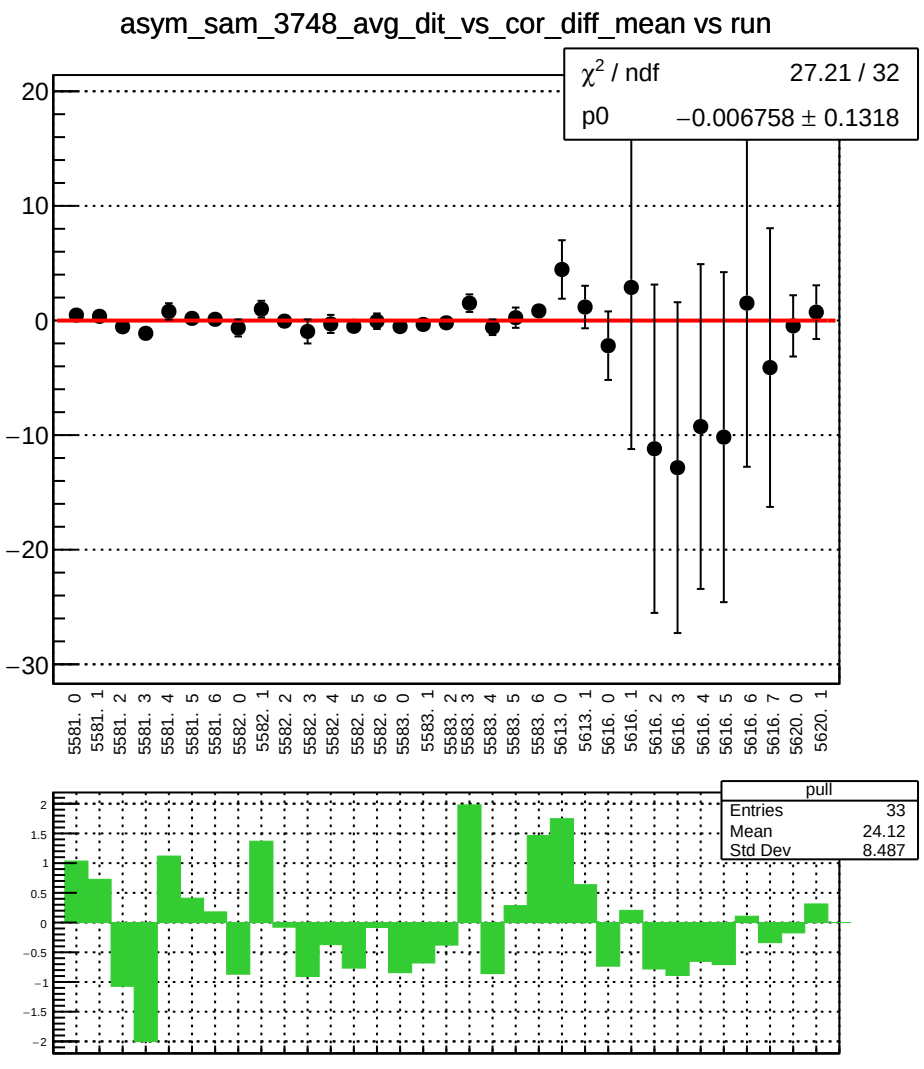

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.202e+04 / 32
p0 989 ± 1.246
1500
1400
1300
1200
1100
1000
900
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

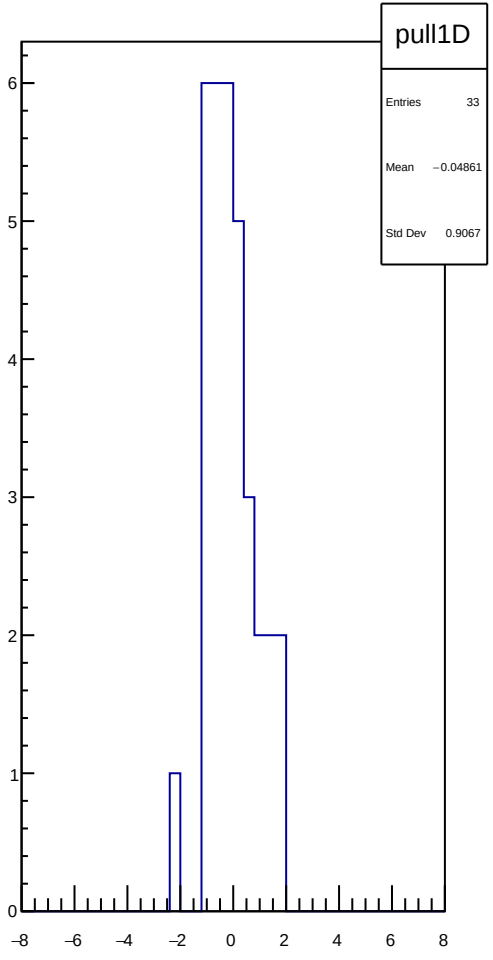

asym_sam_3748_avg_mean vs run
χ² / ndf 39.5 / 32
p0 2434 ± 1863
40000
20000
0
−20000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 68.1
Std Dev 46.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.005901
Std Dev 1.094
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

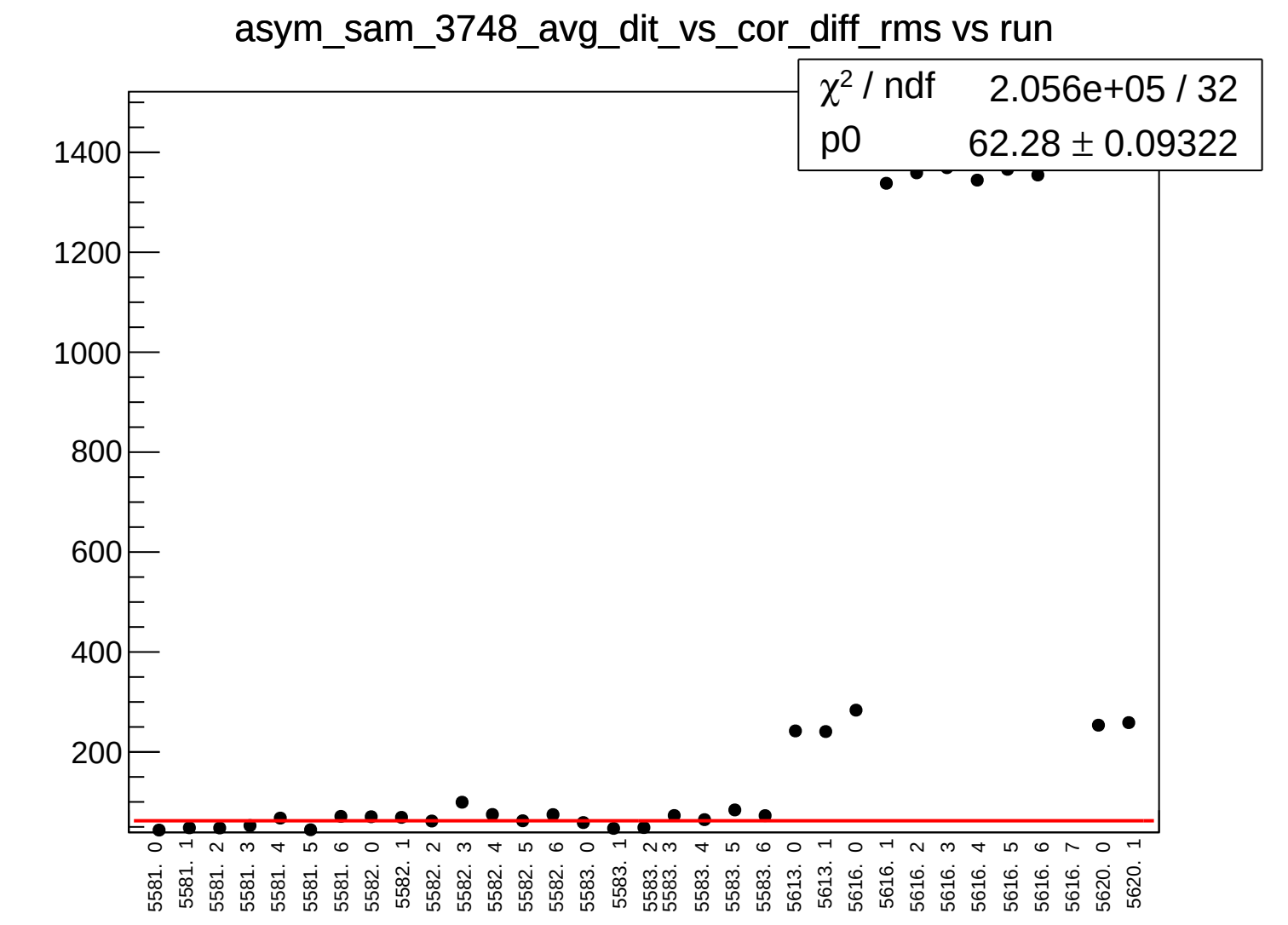

asym_sam_3748_avg_rms vs run
χ² / ndf 3.768e+04 / 32
p0 1032 ± 1.317
2200
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

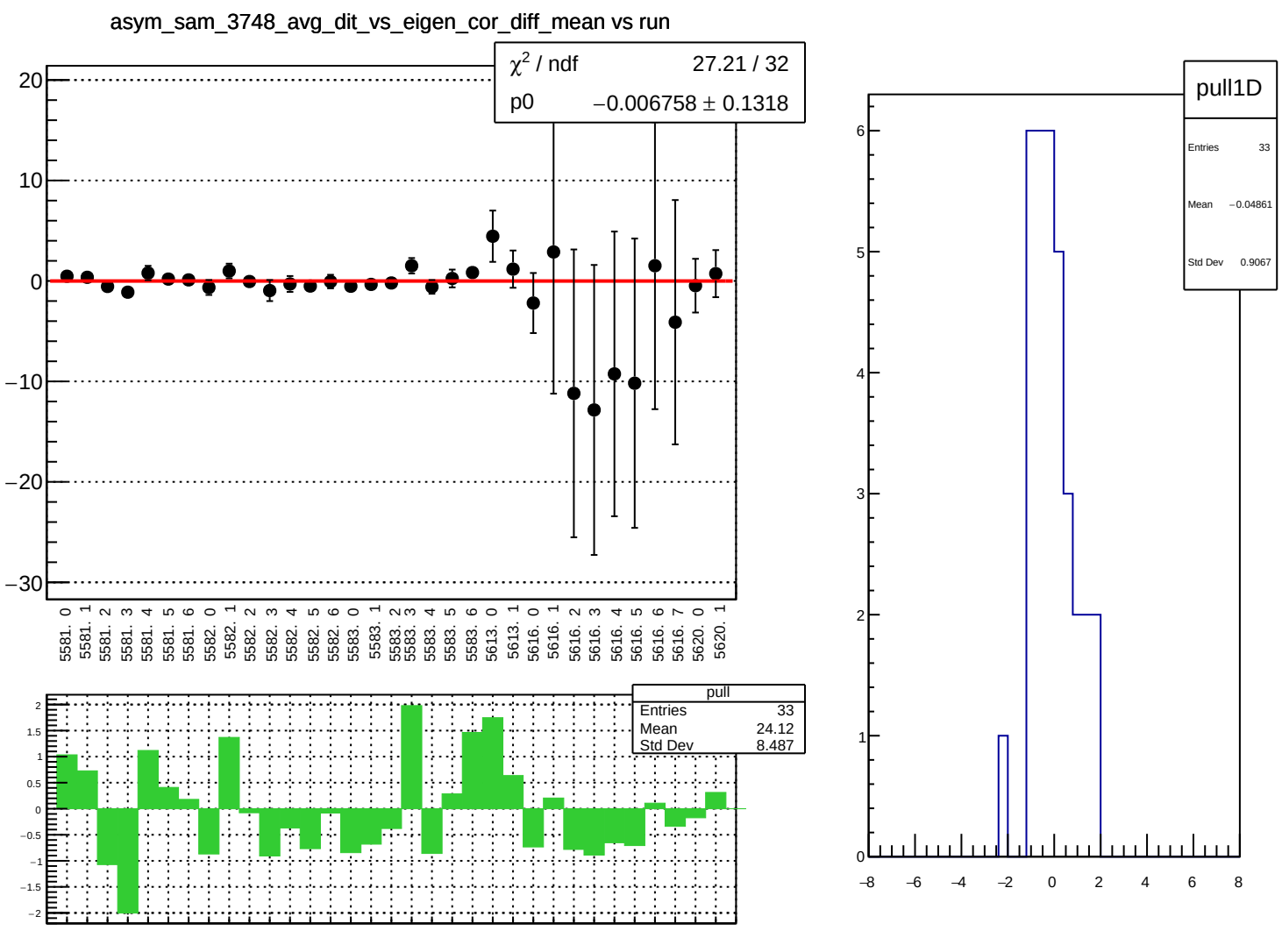

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 31.58 / 32
p0 1.716e−14 ± 7.768e−14
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1329
Std Dev 0.9691
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

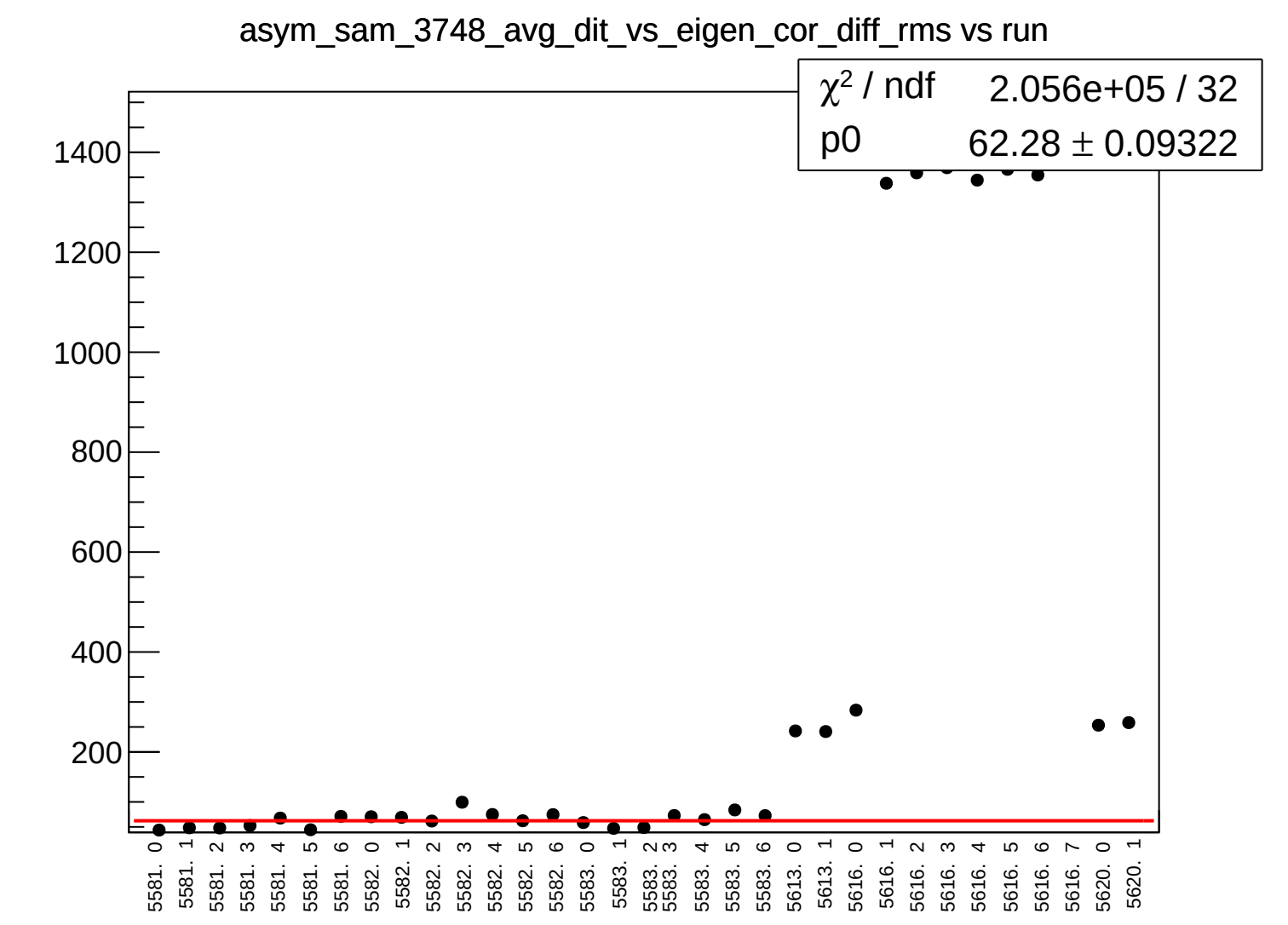

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.035e+05 / 32
p0 2.116e−11 ± 5.492e−14
2000
1800
1600
1400
1200
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

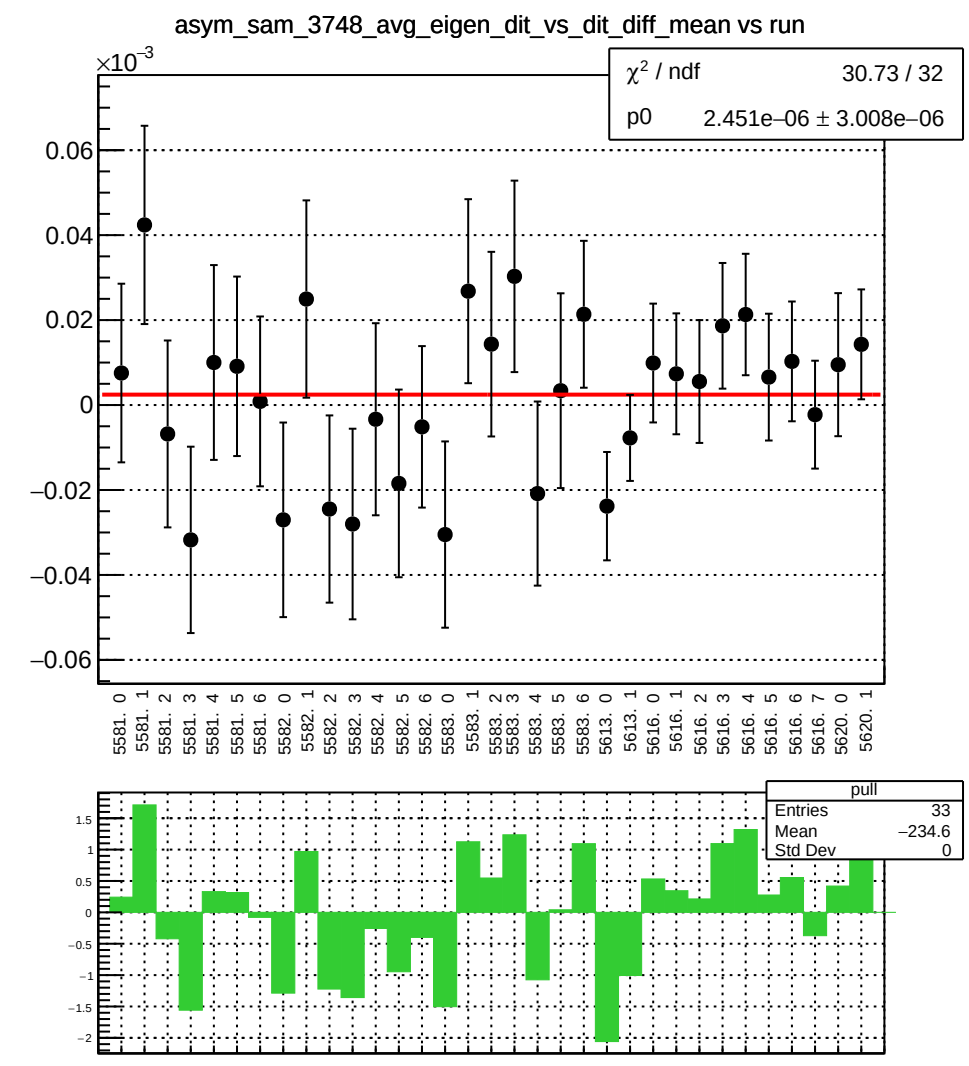

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 27.21 / 32
p0 −0.006758 ± 0.1318
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.12
Std Dev 8.487
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

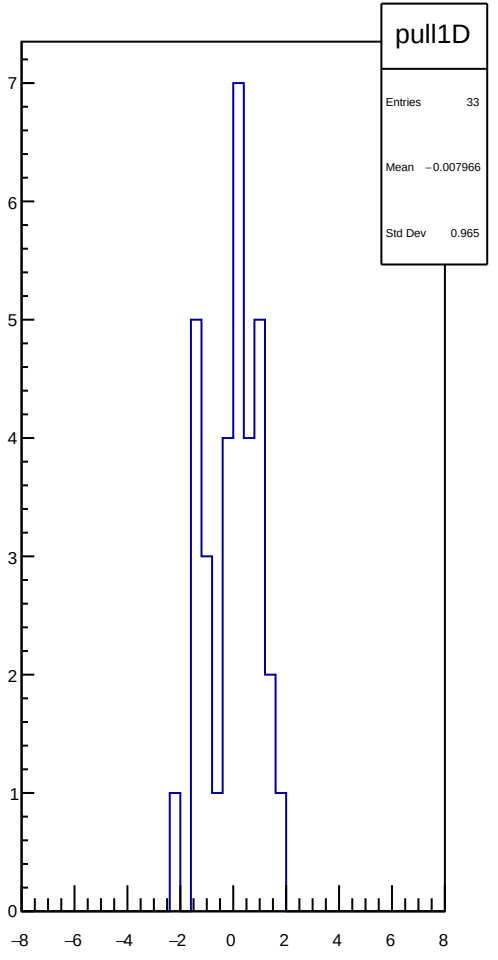

pull1D
Entries 33
Mean −0.04861
Std Dev 0.9067
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

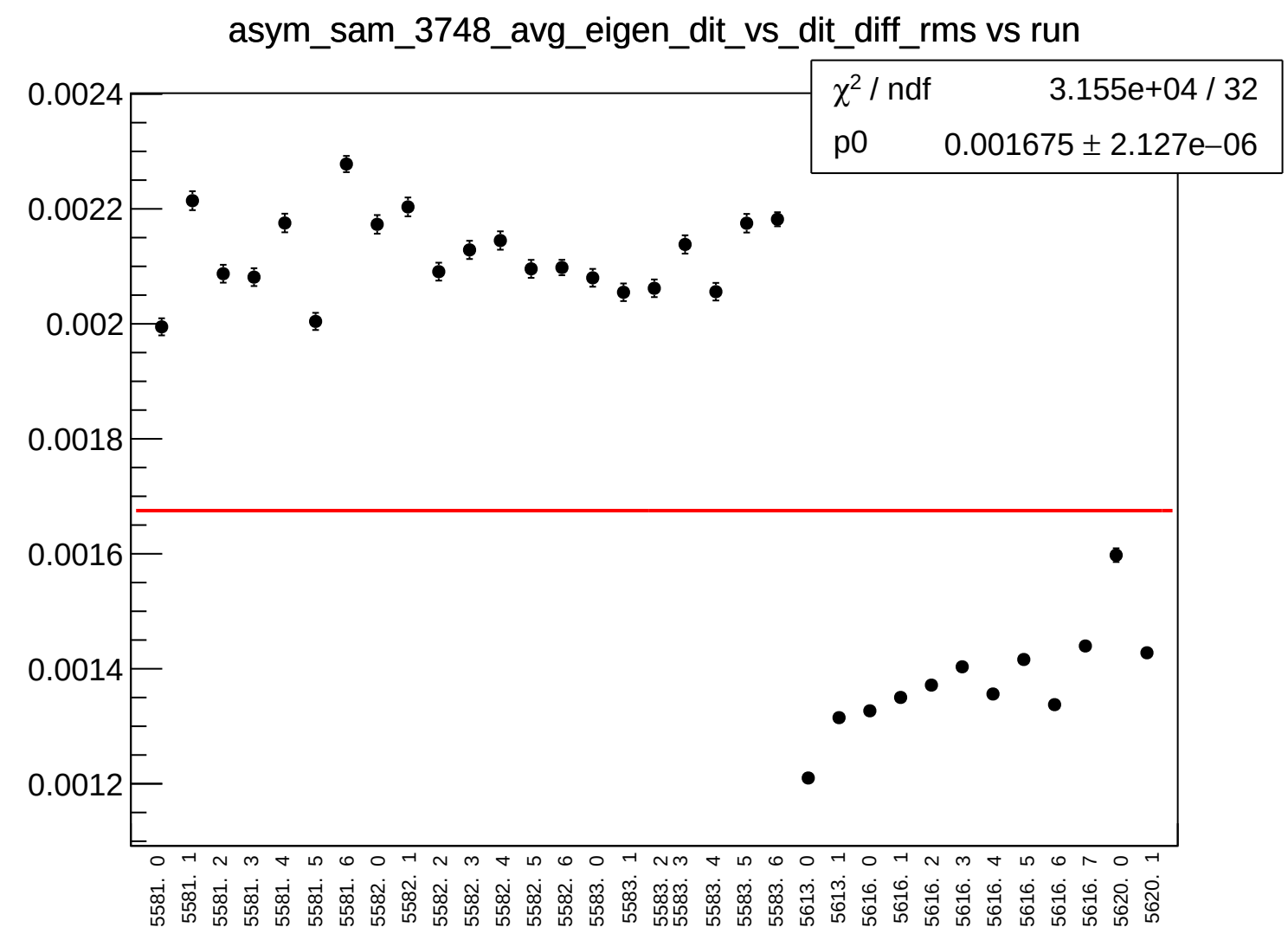

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.056e+05 / 32
p0 62.28 ± 0.09322
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

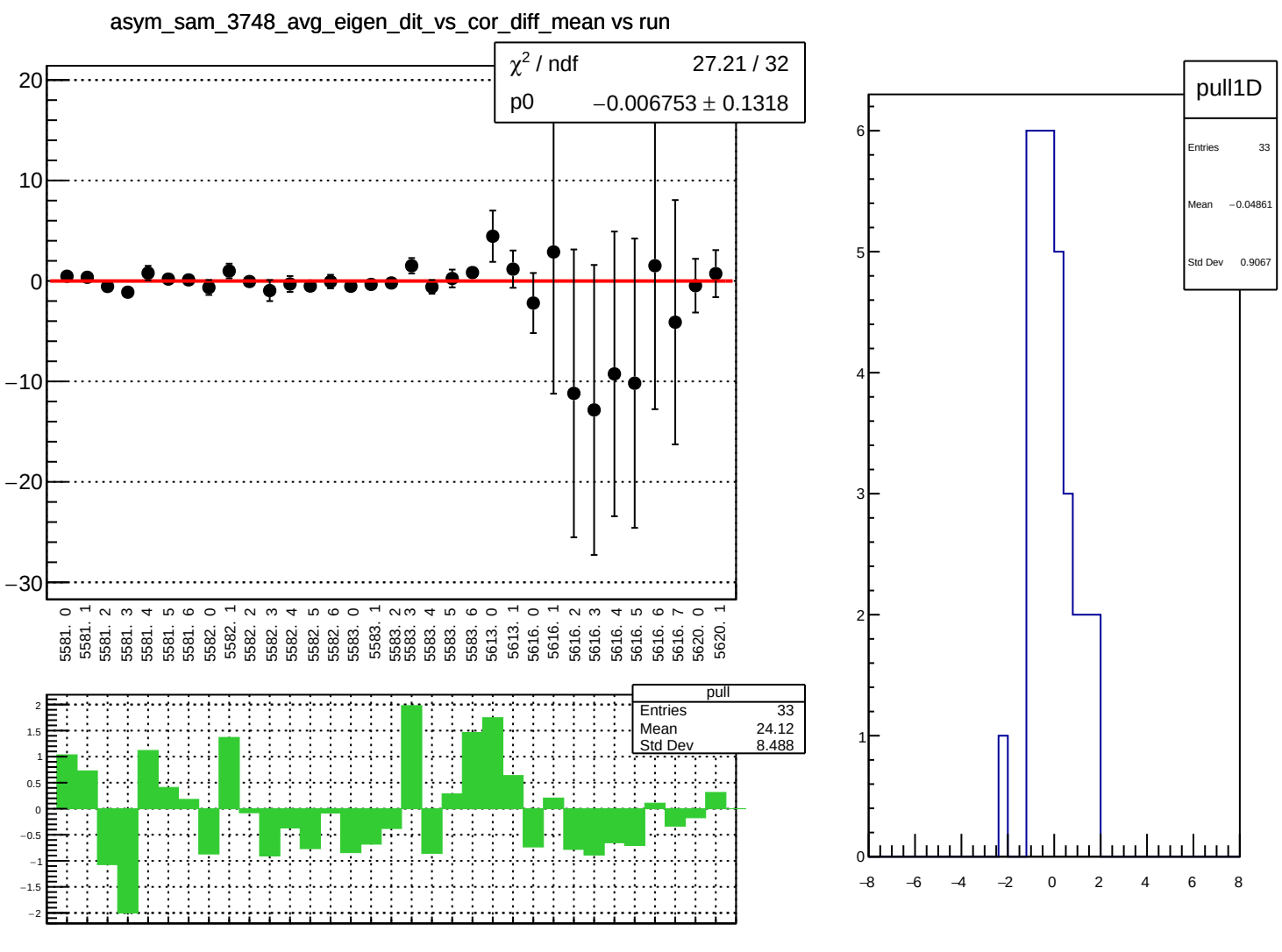

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.21 / 32
p0 −0.006758 ± 0.1318
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.12
Std Dev 8.487
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.04861
Std Dev 0.9067
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

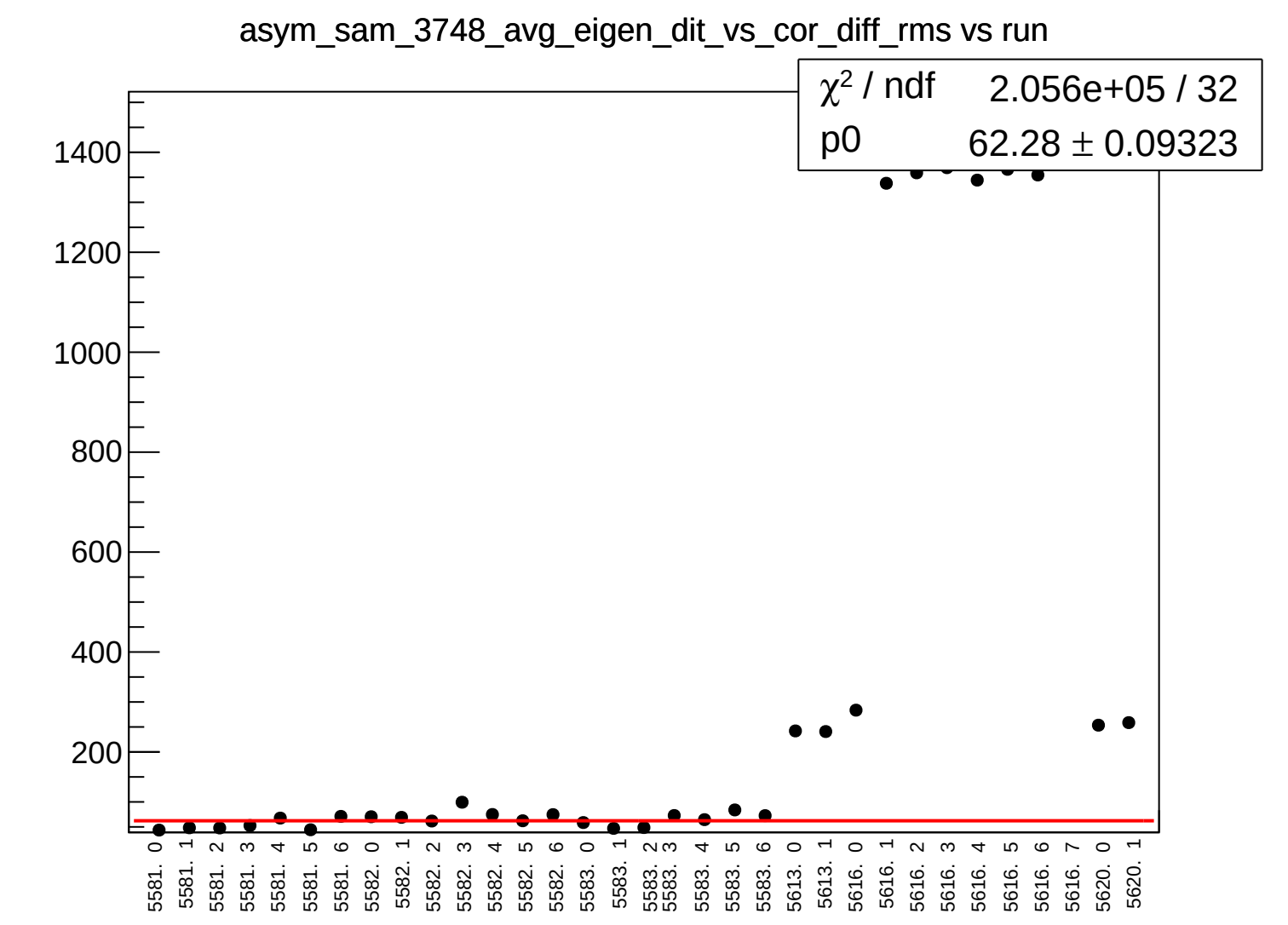

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.056e+05 / 32
p0 62.28 ± 0.09322
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

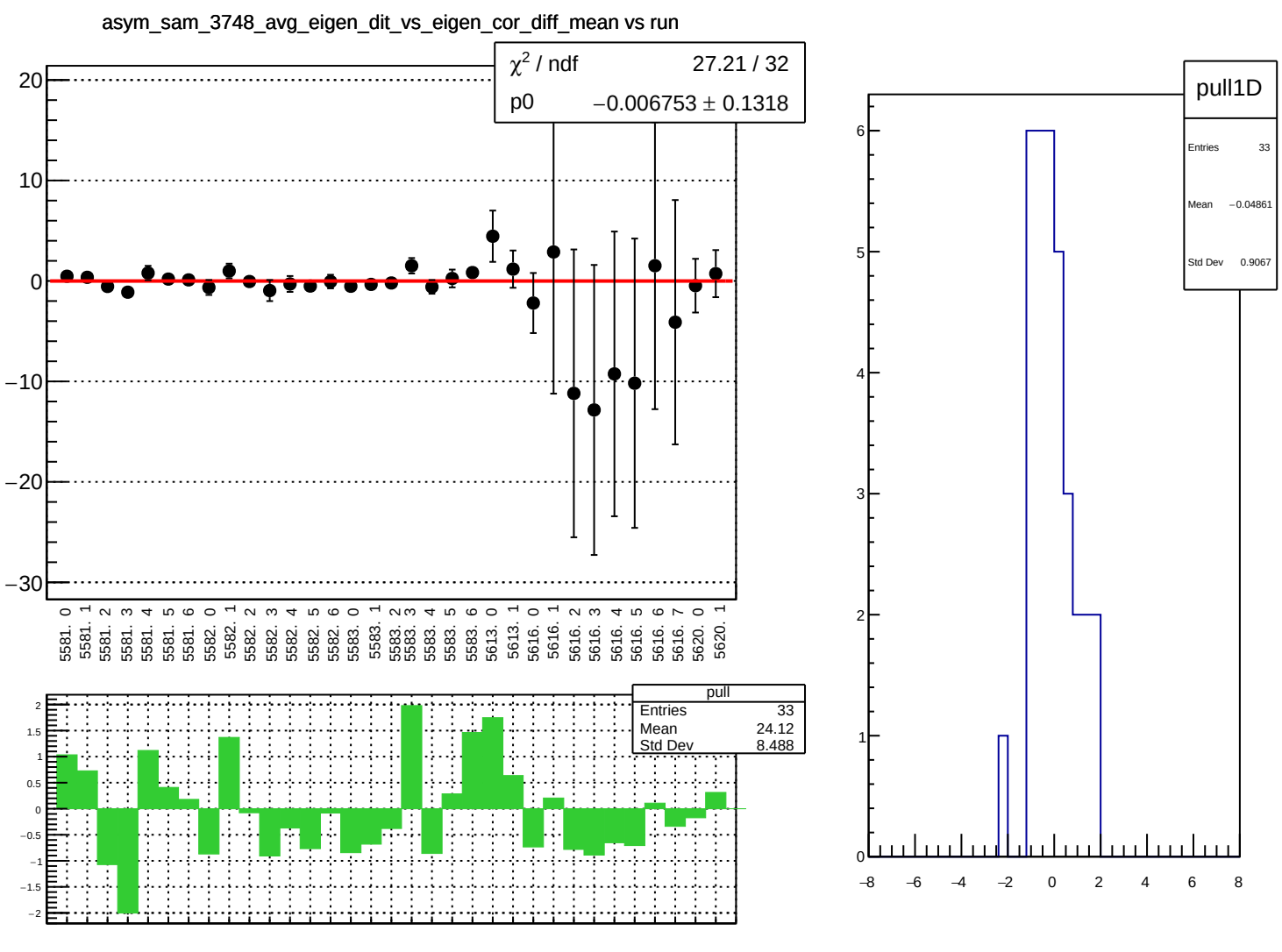

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.73 / 32
p0 2.451e−06 ± 3.008e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −234.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

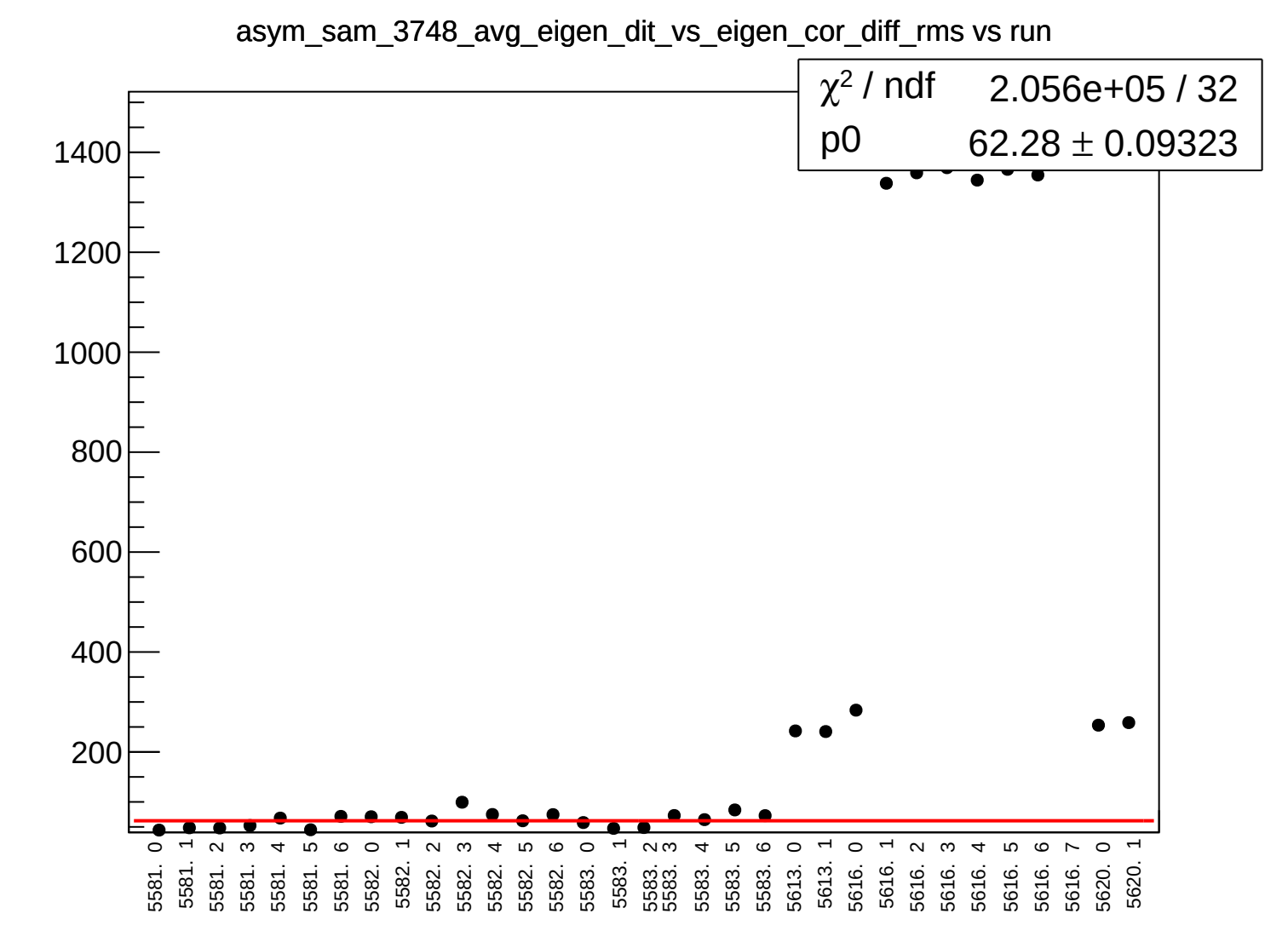

pull1D
Entries 33
Mean −0.007966
Std Dev 0.965
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

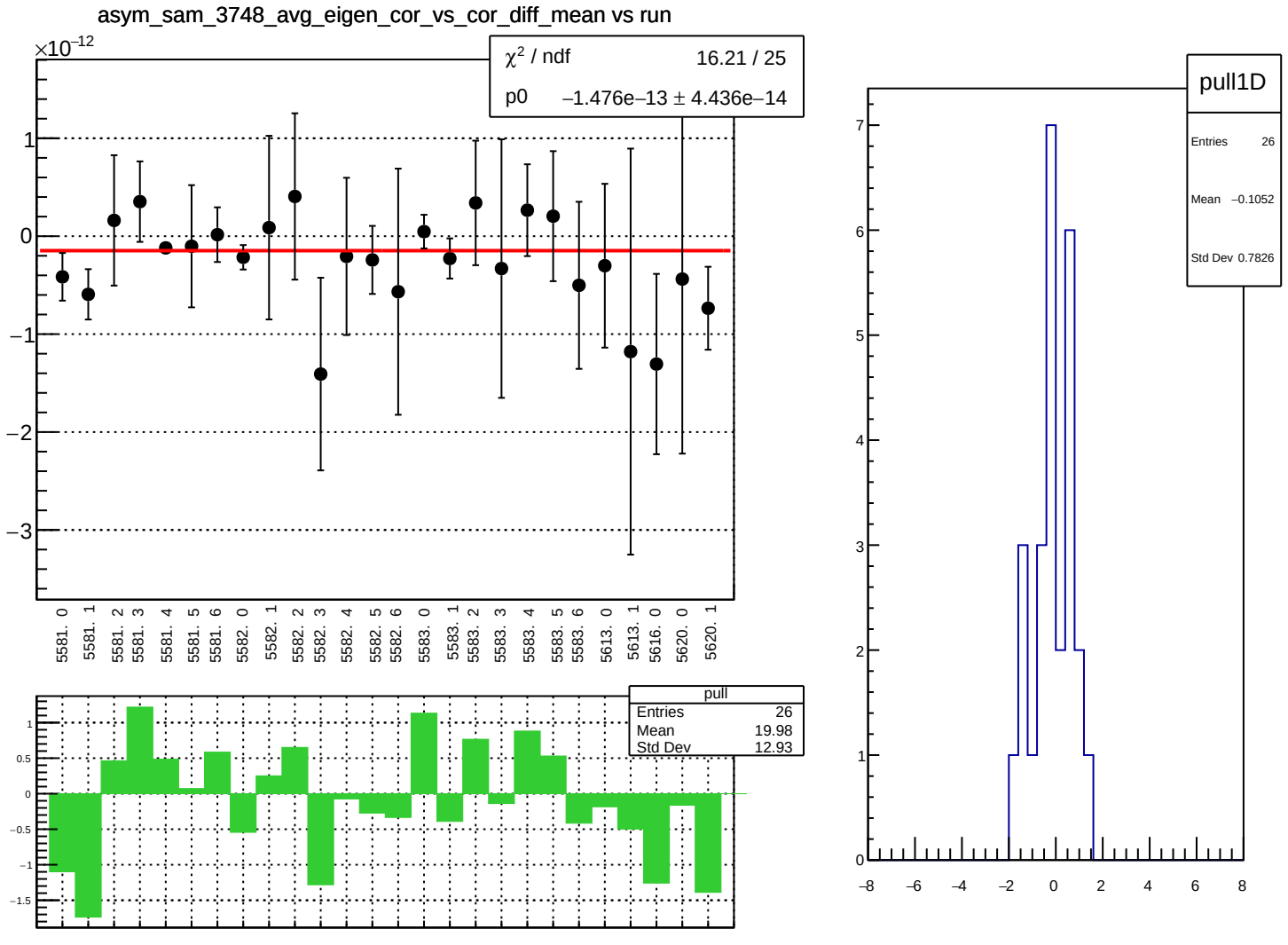

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.155e+04 / 32
p0 0.001675 ± 2.127e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

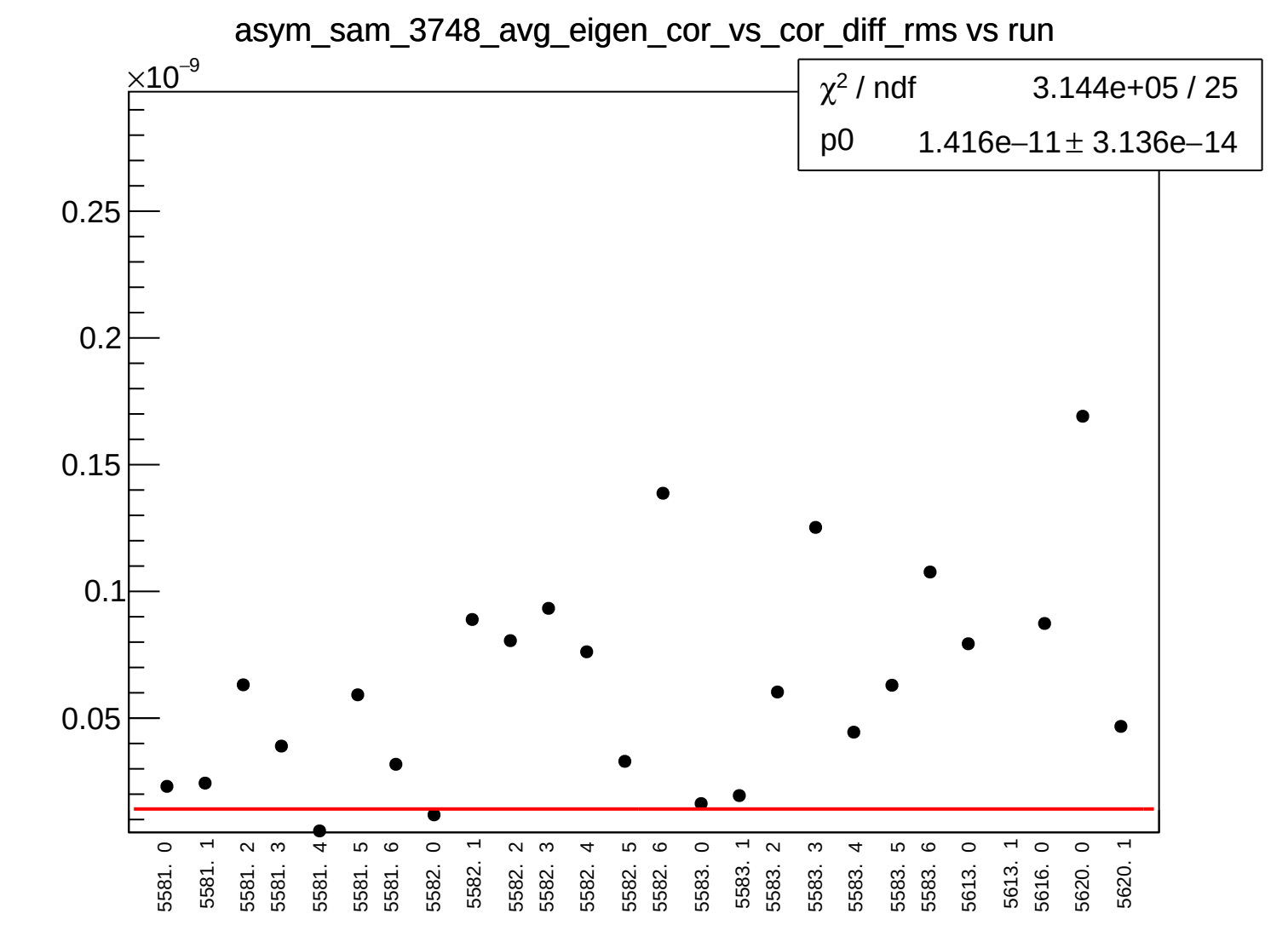

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.21 / 32
p0 −0.006753 ± 0.1318
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.12
Std Dev 8.488
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.04861
Std Dev 0.9067
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

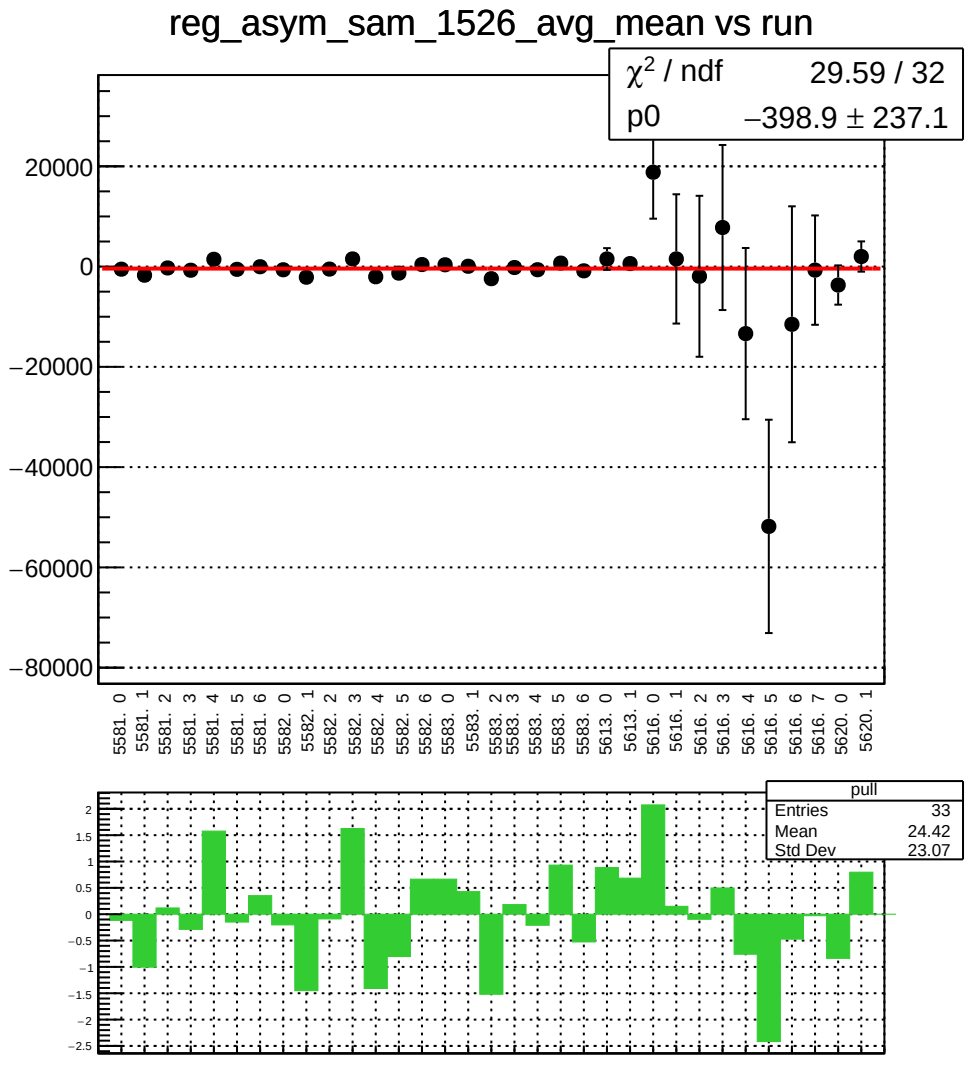

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.056e+05 / 32
p0 62.28 ± 0.09323
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

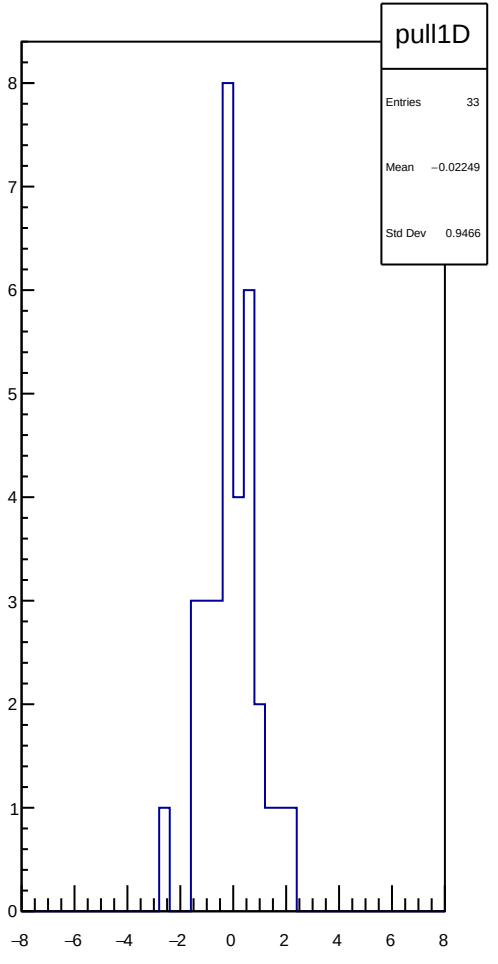

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.21 / 32
p0 −0.006753 ± 0.1318
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.12
Std Dev 8.488
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.04861
Std Dev 0.9067
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

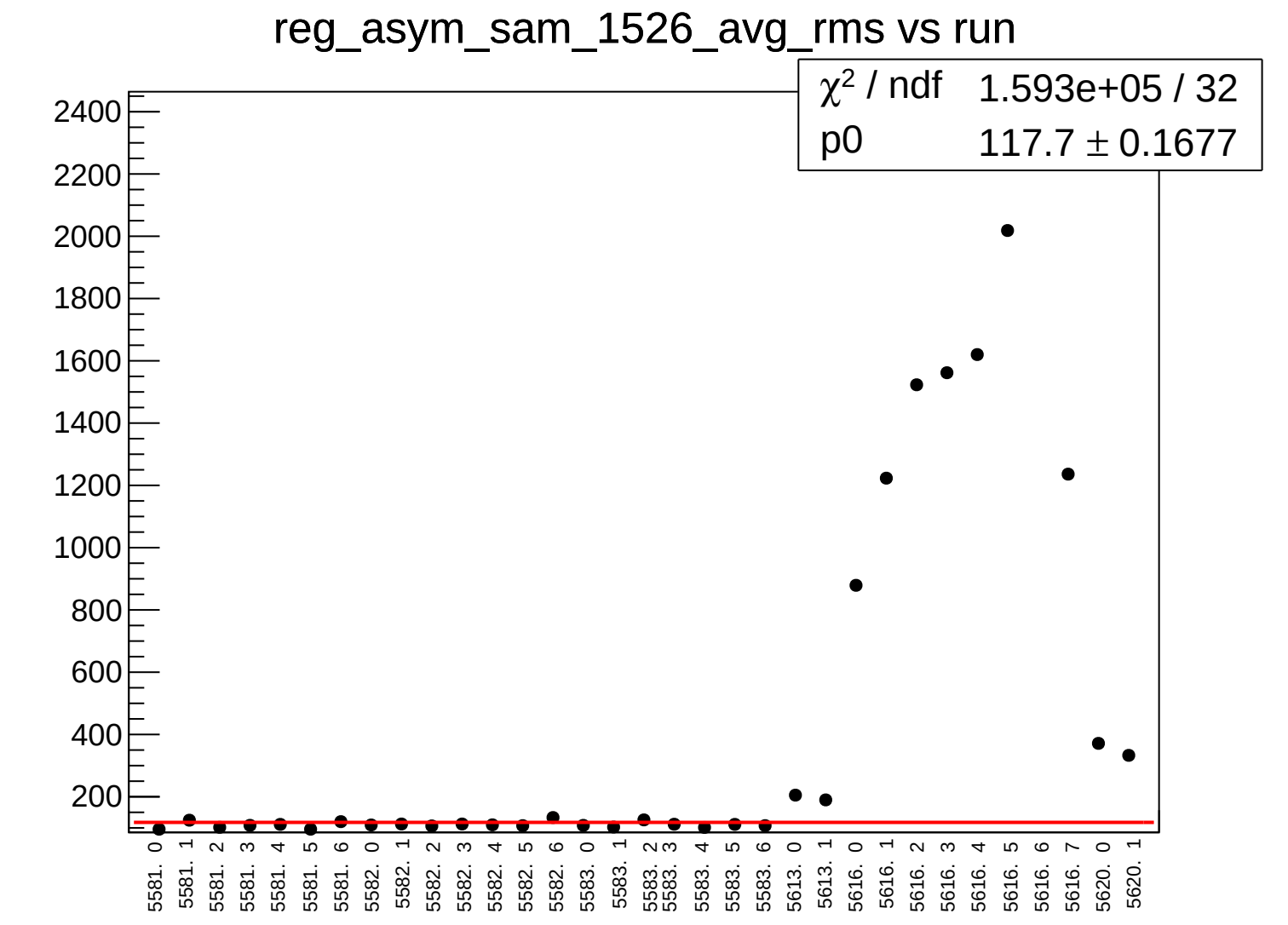

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.056e+05 / 32
p0 62.28 ± 0.09323
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

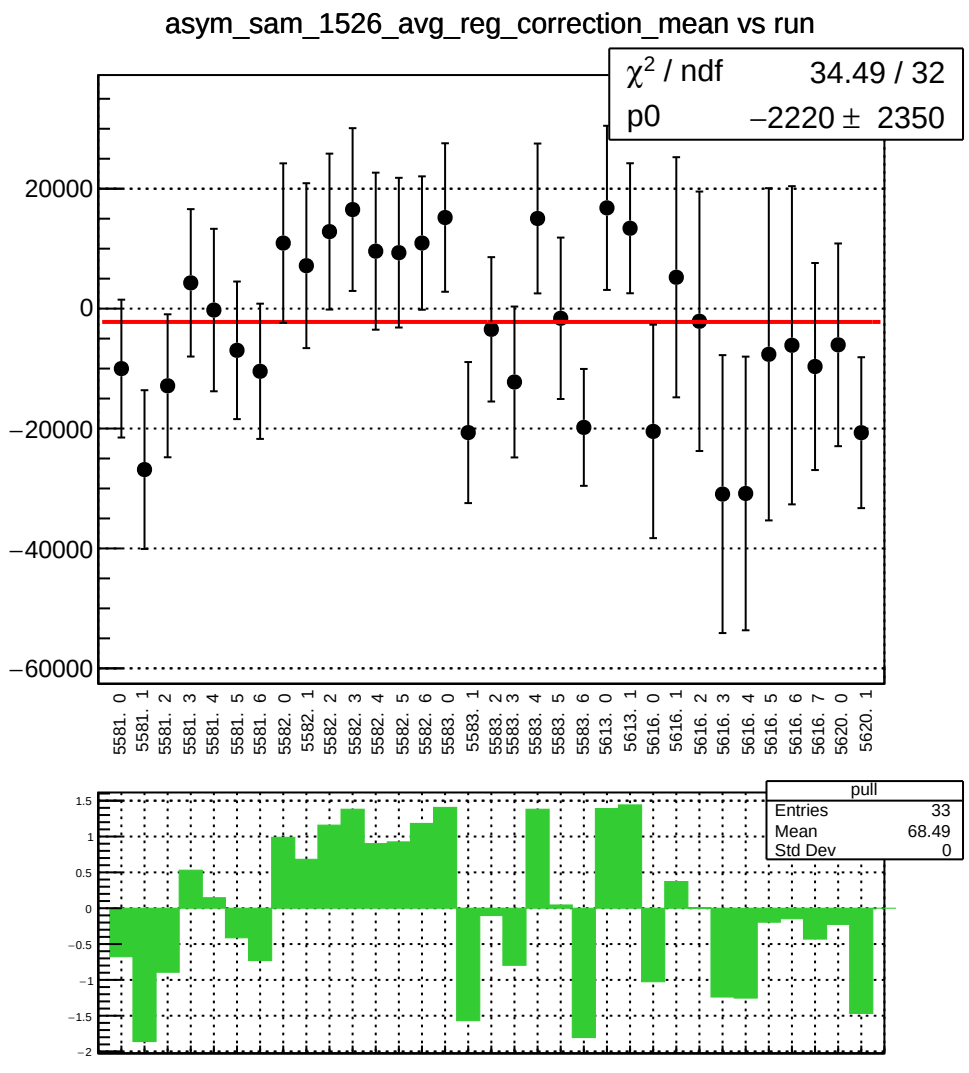

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 16.21 / 25
p0 −1.476e−13 ± 4.436e−14
1
0
−1
−2
−3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 19.98
Std Dev 12.93
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.1052
Std Dev 0.7826
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

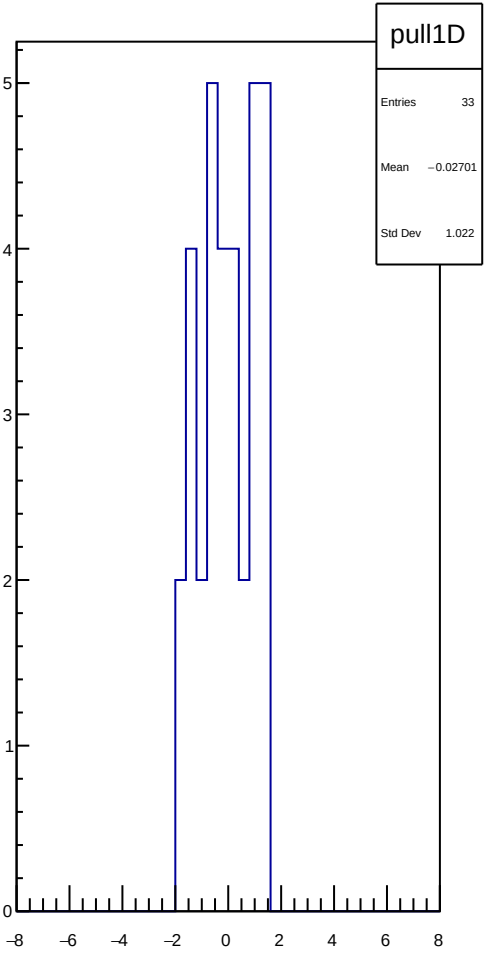

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.144e+05 / 25
p0 1.416e−11 ± 3.136e−14
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

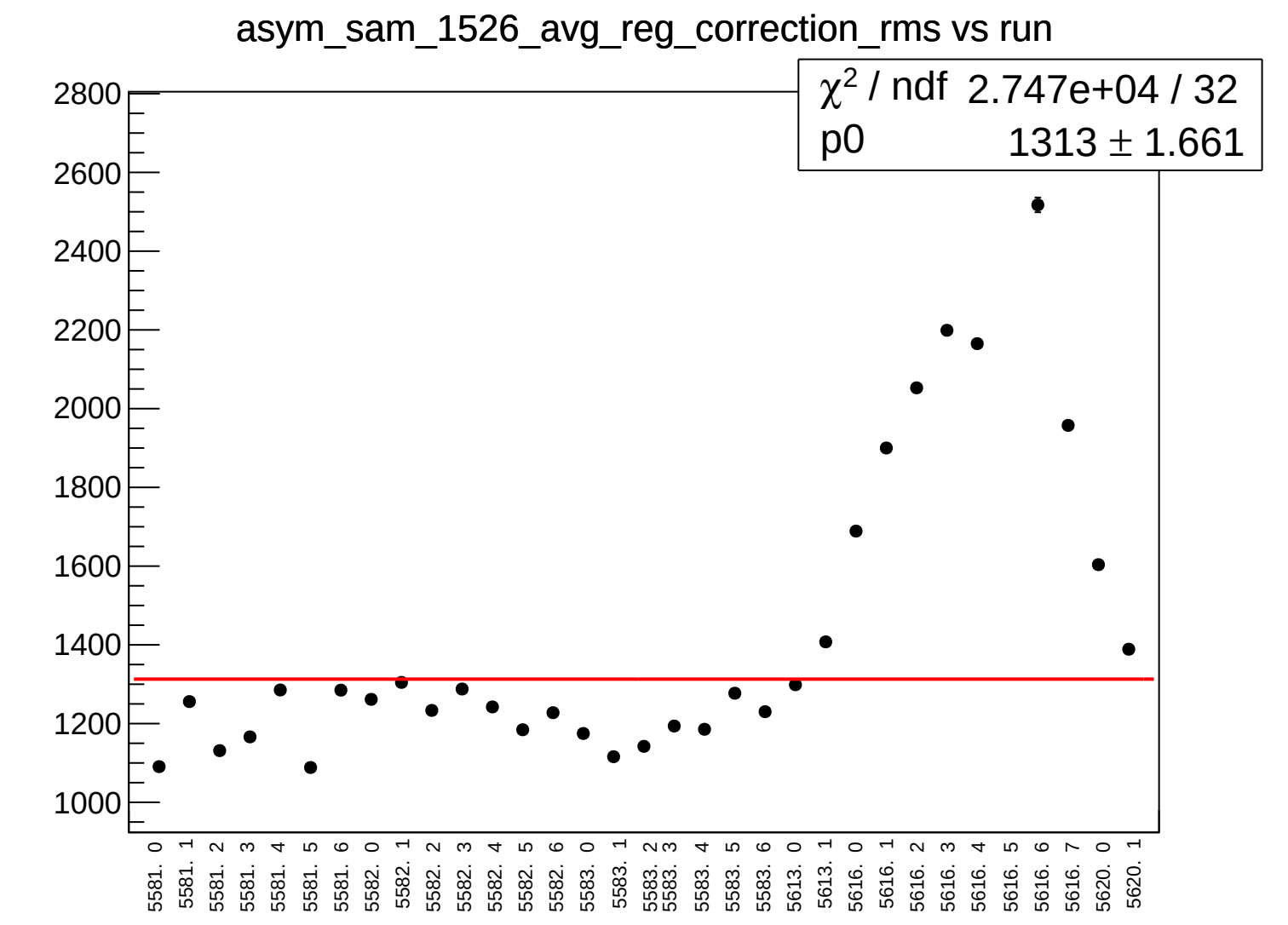

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 29.59 / 32
p0 −398.9 ± 237.1
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.42
Std Dev 23.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

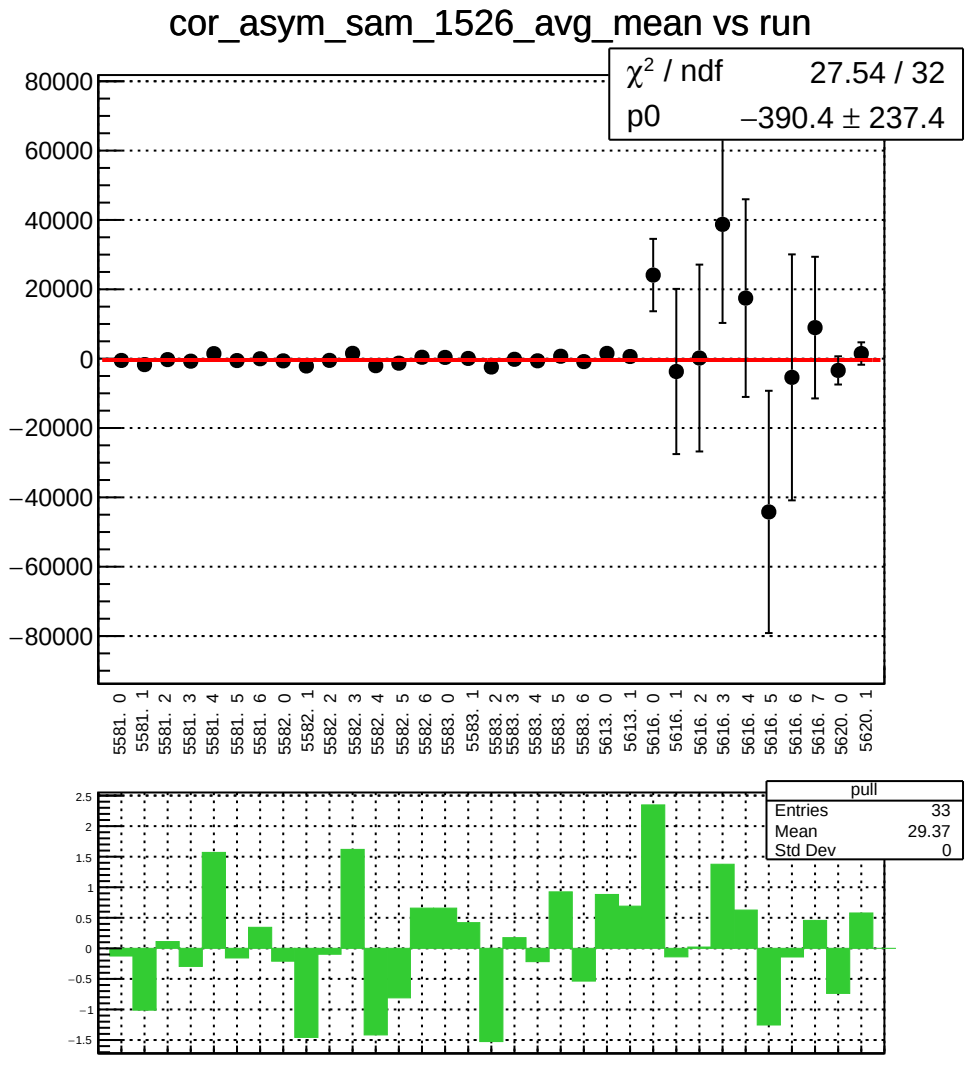

pull1D
Entries 33
Mean −0.02249
Std Dev 0.9466
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

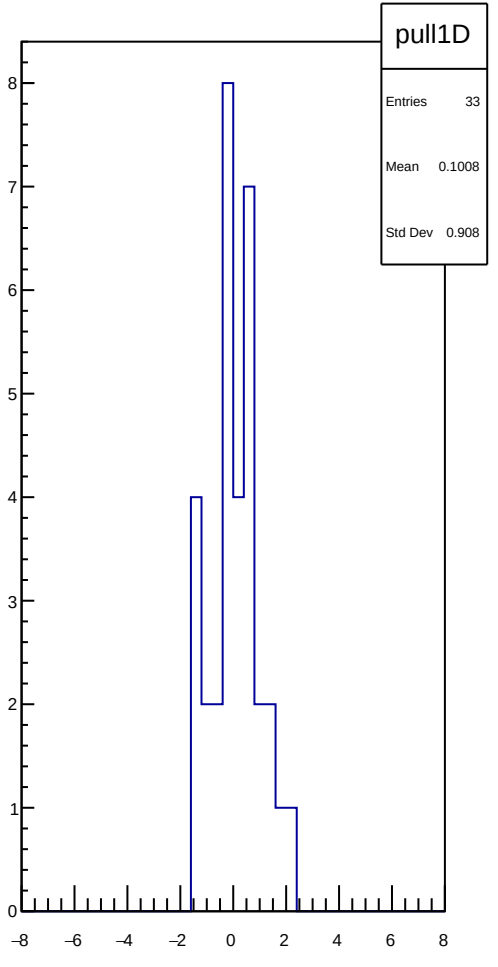

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 1.593e+05 / 32
p0 117.7 ± 0.1677
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

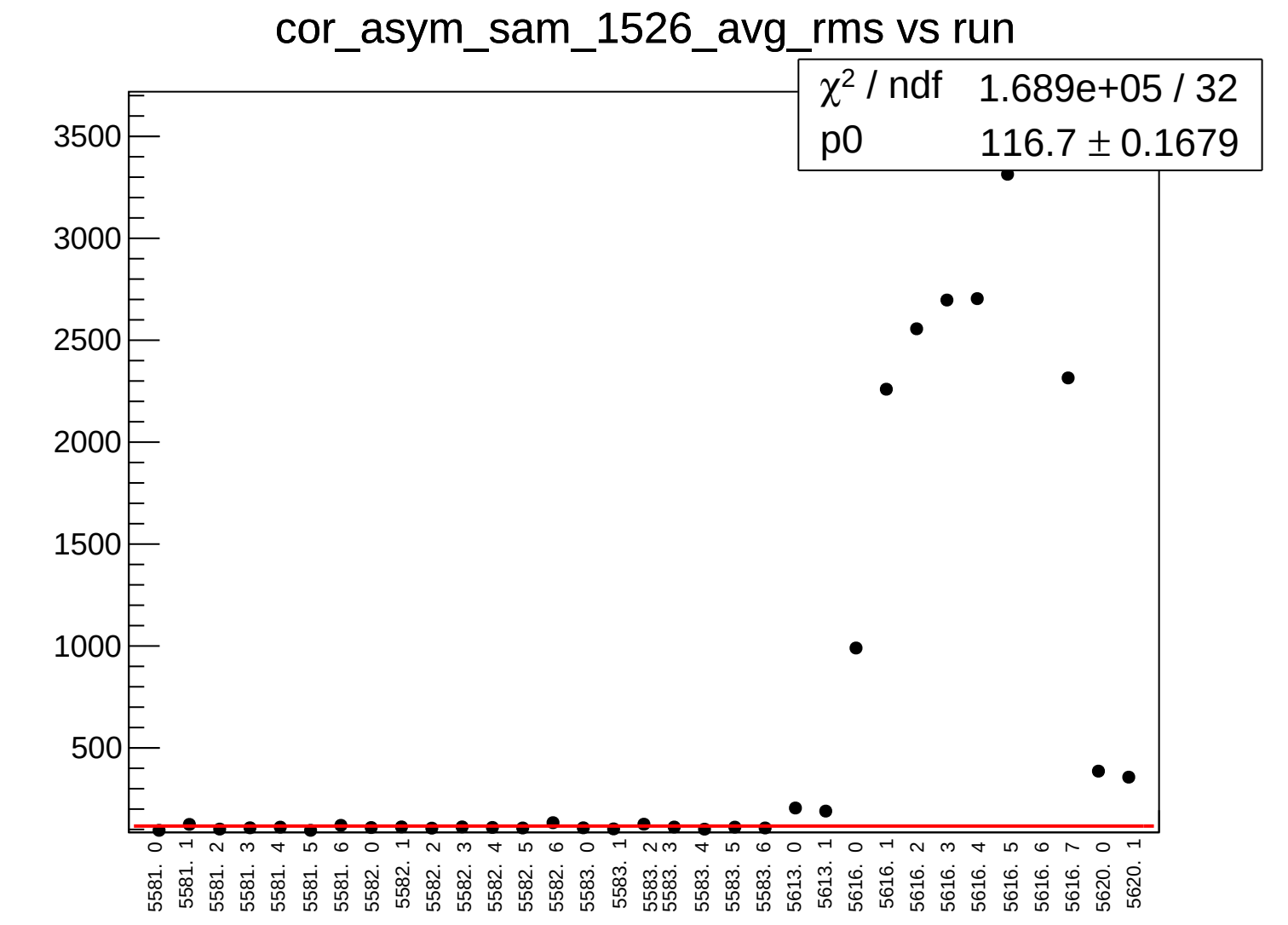

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 34.49 / 32
p0 −2220 ± 2350
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 68.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

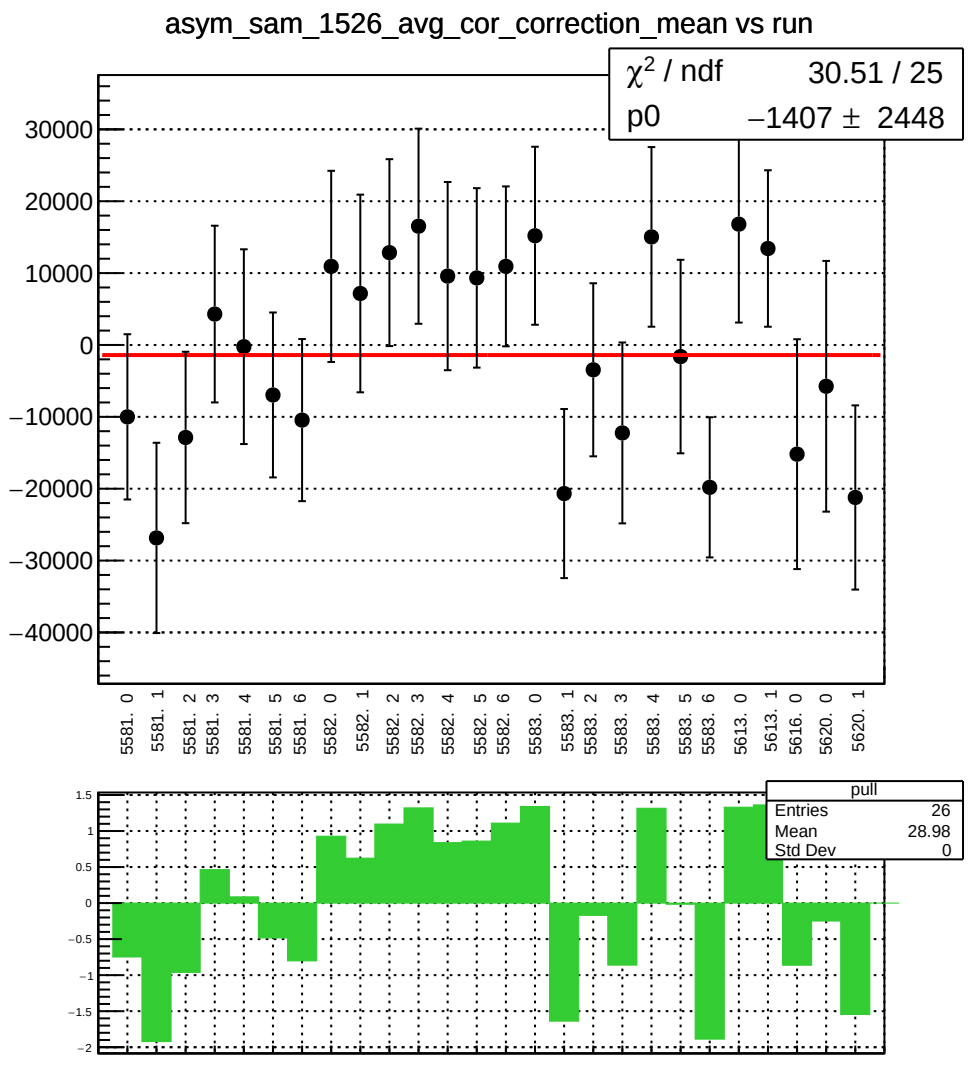

pull1D
Entries 33
Mean −0.02701
Std Dev 1.022
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

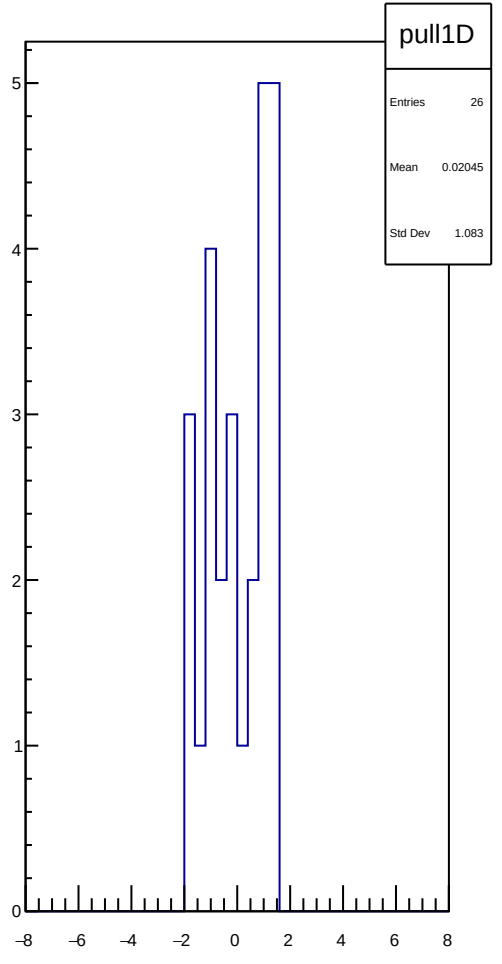

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 2.747e+04 / 32
p0 1313 ± 1.661
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

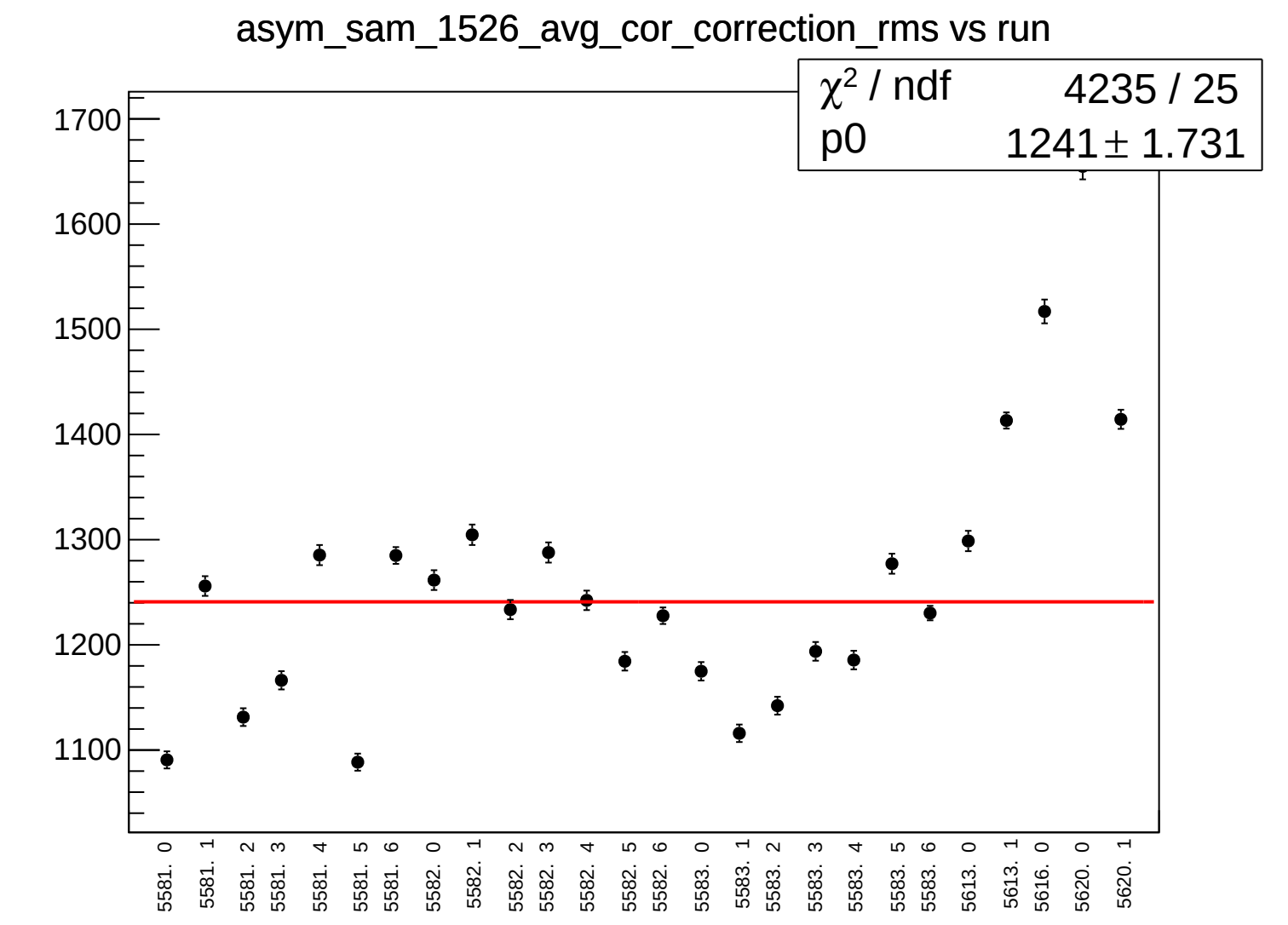

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 27.54 / 32
p0 −390.4 ± 237.4
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.37
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

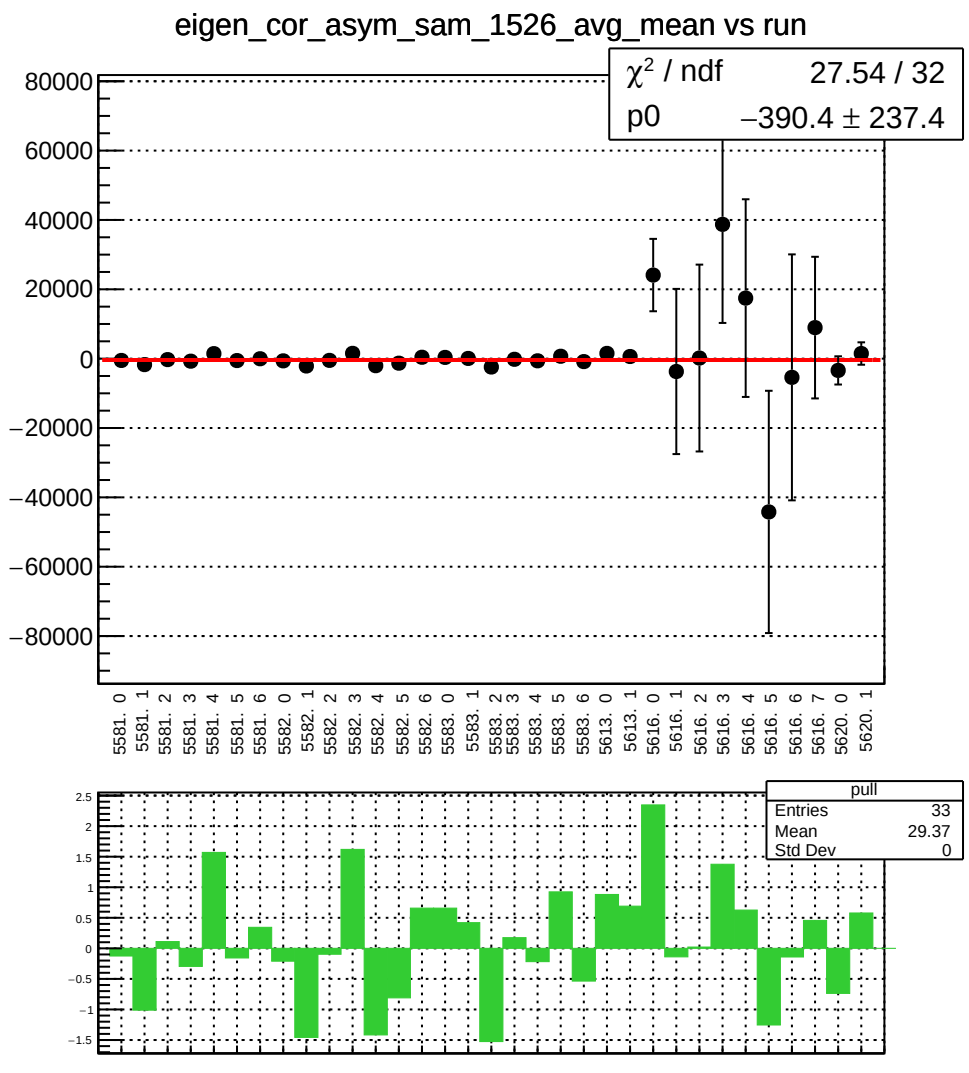

pull1D
Entries 33
Mean 0.1008
Std Dev 0.908
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

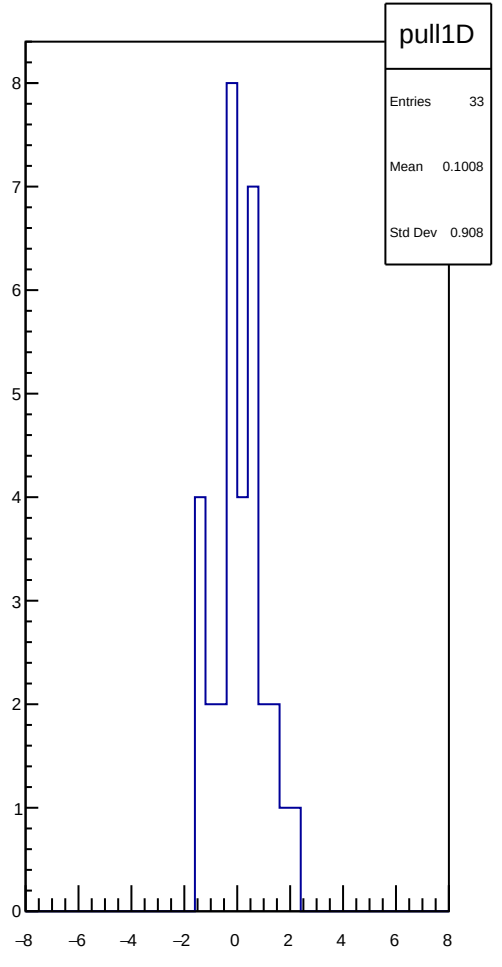

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.689e+05 / 32
p0 116.7 ± 0.1679
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

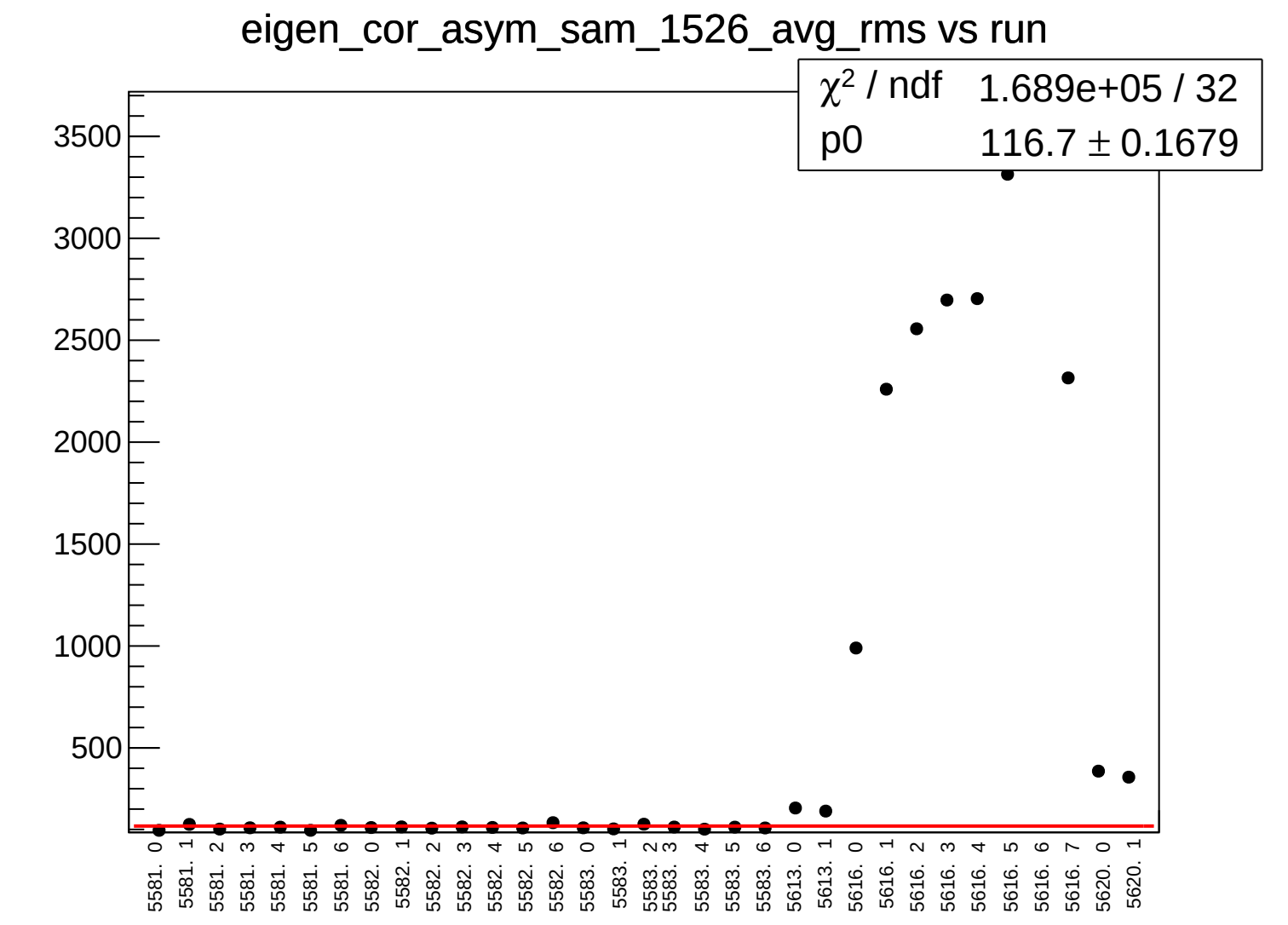

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 30.51 / 25
p0 −1407 ± 2448
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 28.98
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

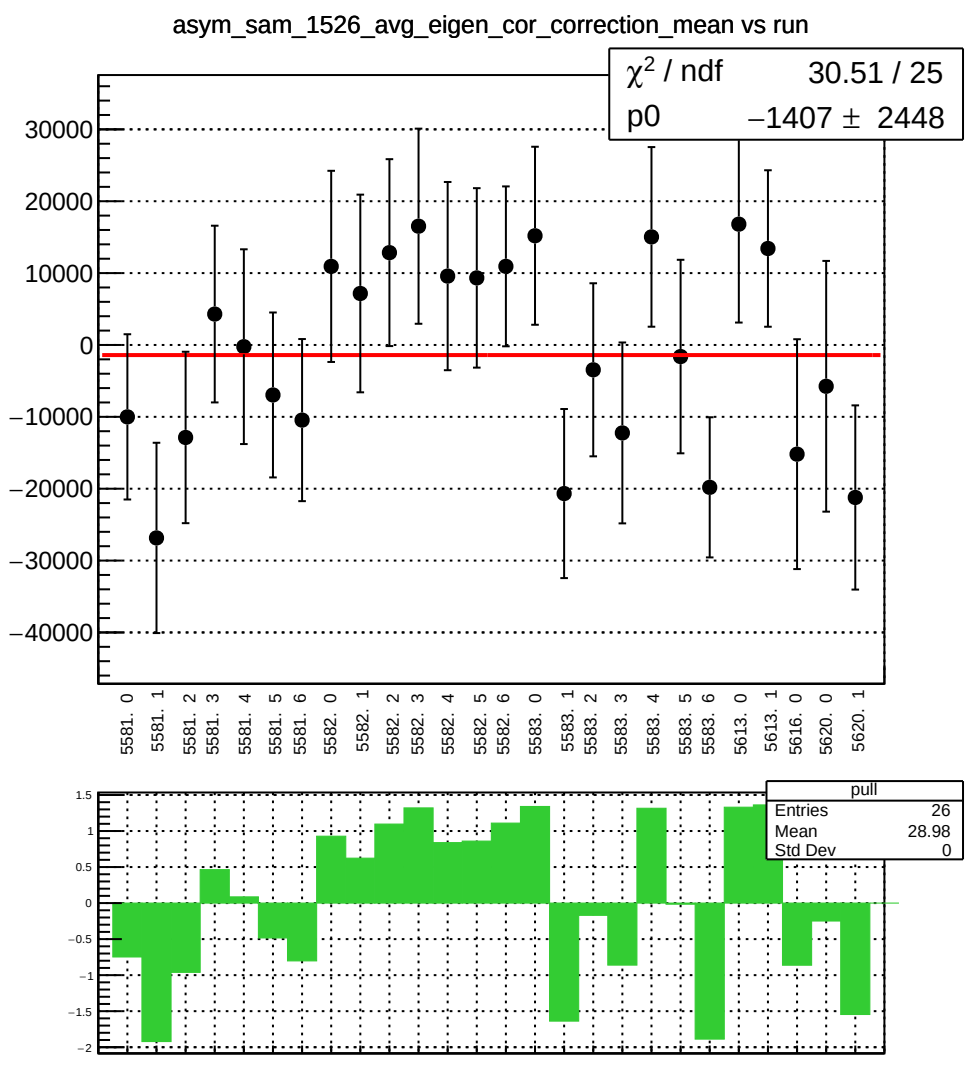

pull1D
Entries 26
Mean 0.02045
Std Dev 1.083
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

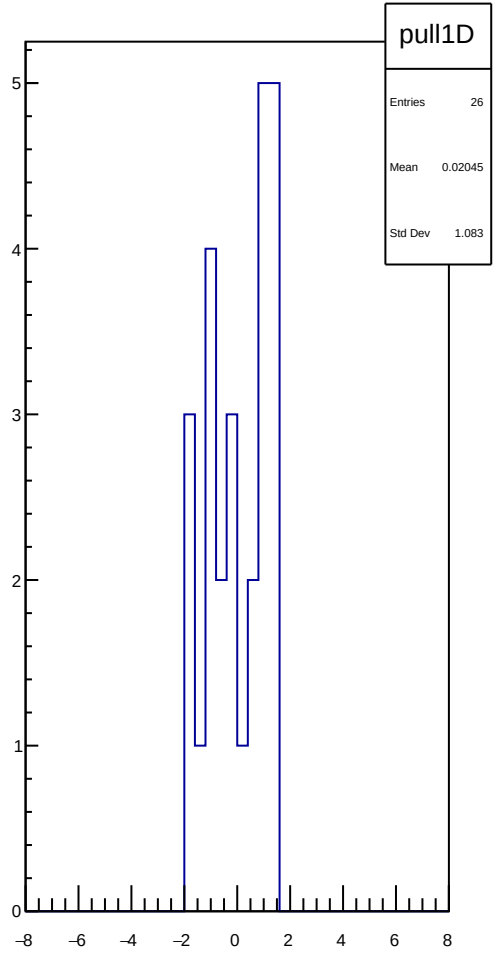

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 4235 / 25
p0 1241 ± 1.731
1700
1600
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

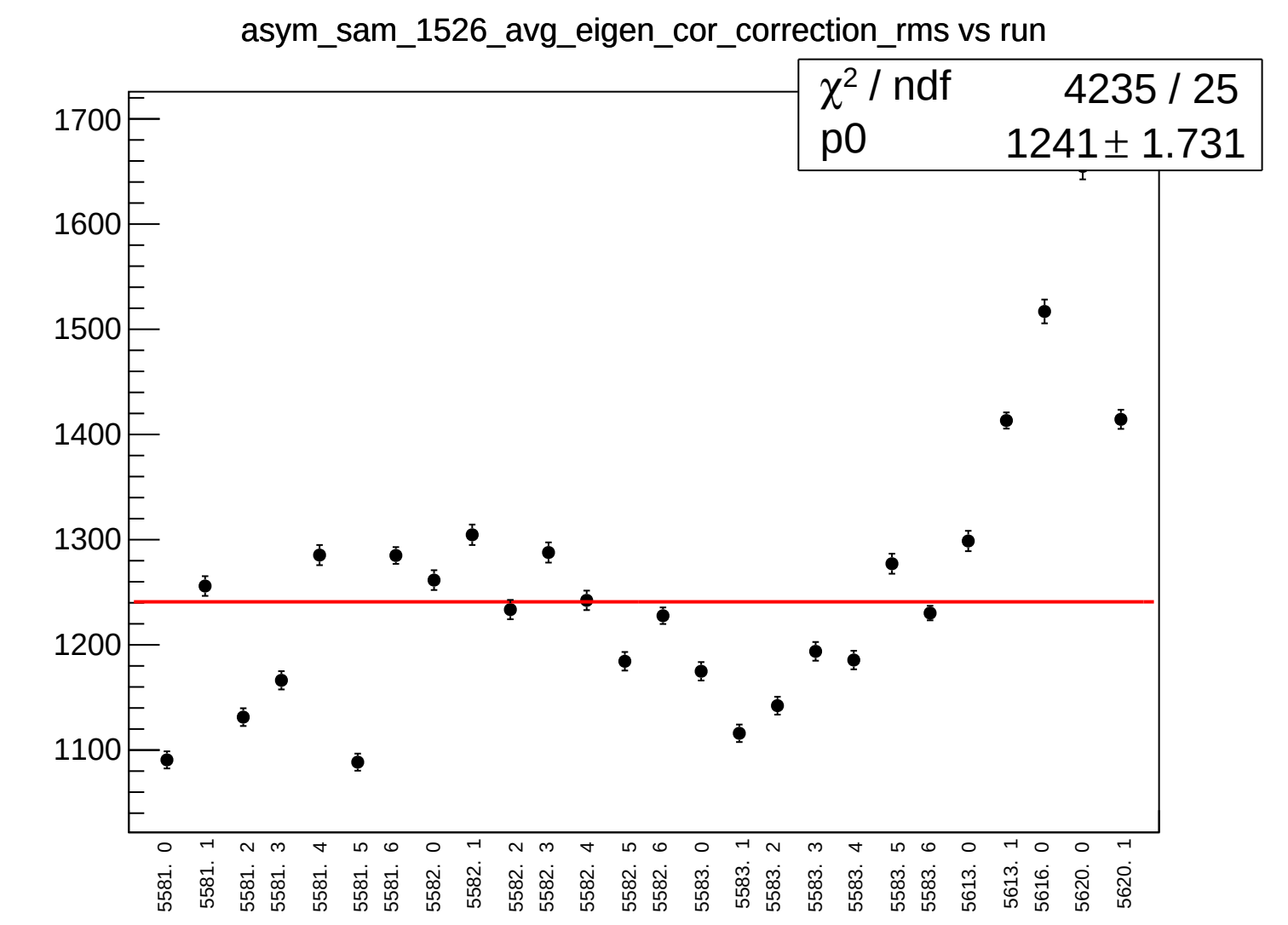

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 27.54 / 32
p0 −390.4 ± 237.4
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.37
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

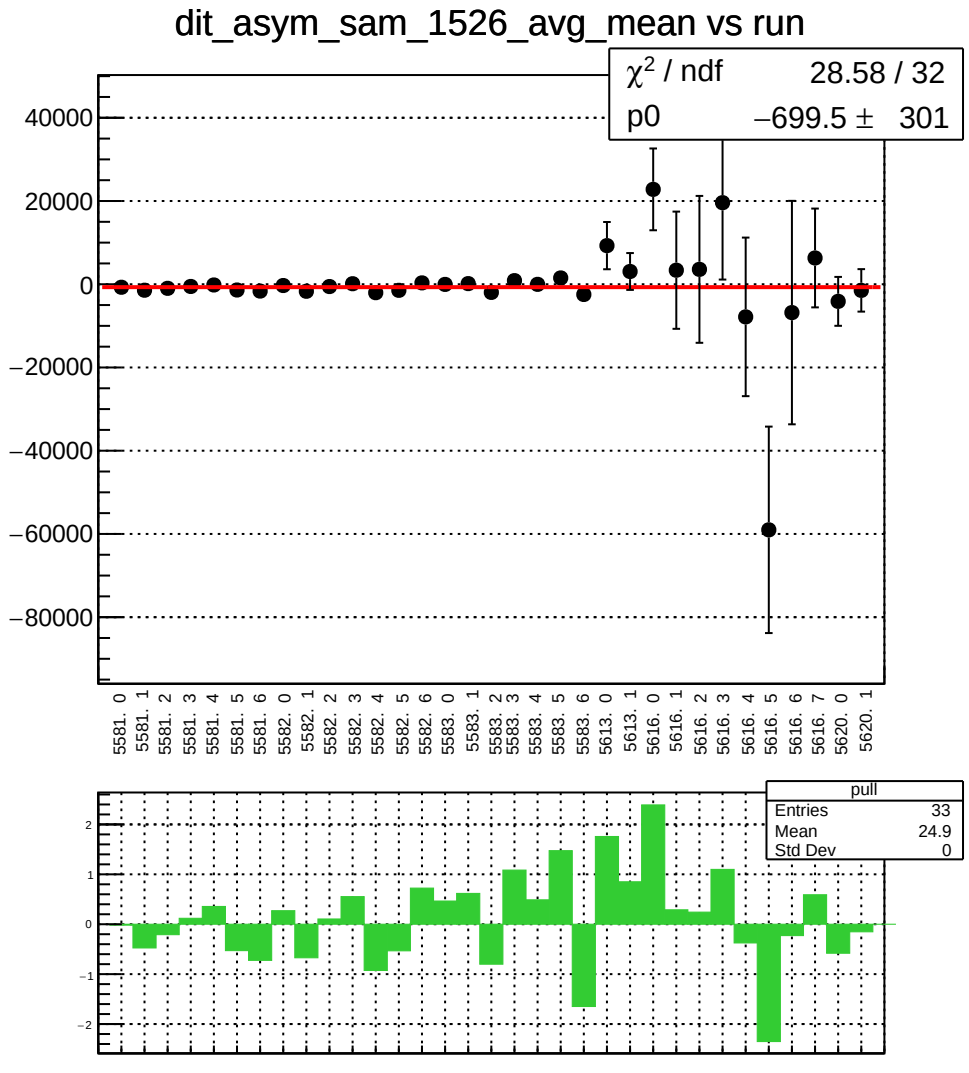

pull1D
Entries 33
Mean 0.1008
Std Dev 0.908
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

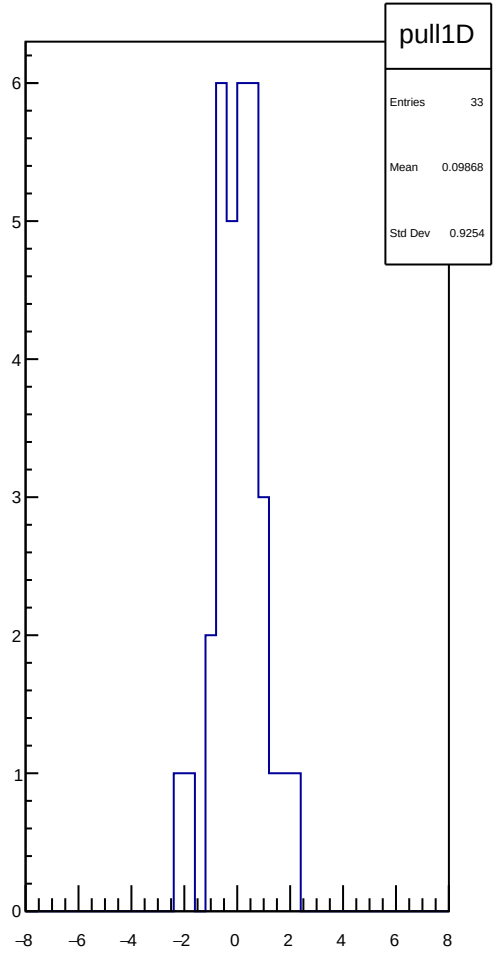

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.689e+05 / 32
p0 116.7 ± 0.1679
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

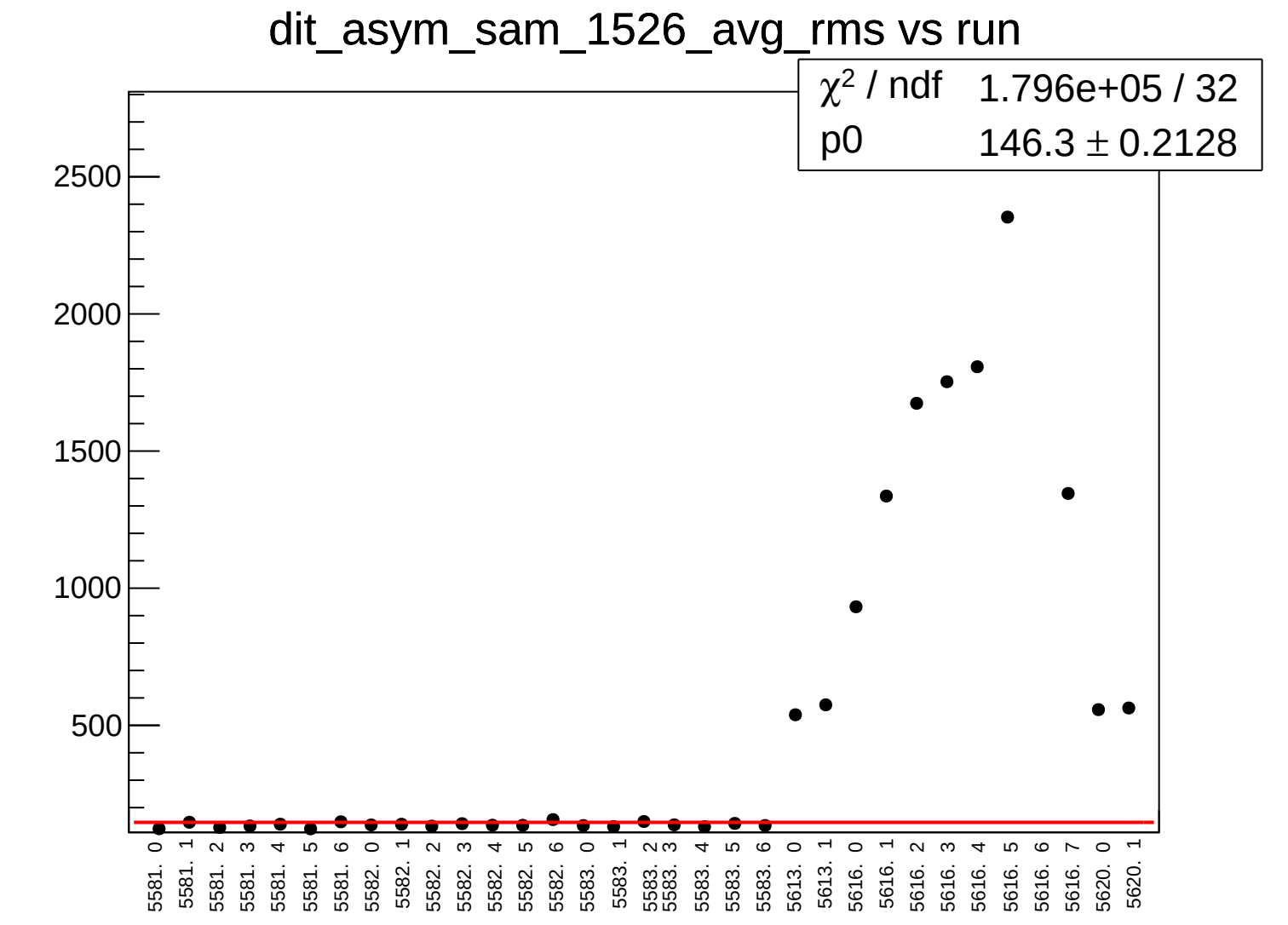

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 30.51 / 25
p0 −1407 ± 2448
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 28.98
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

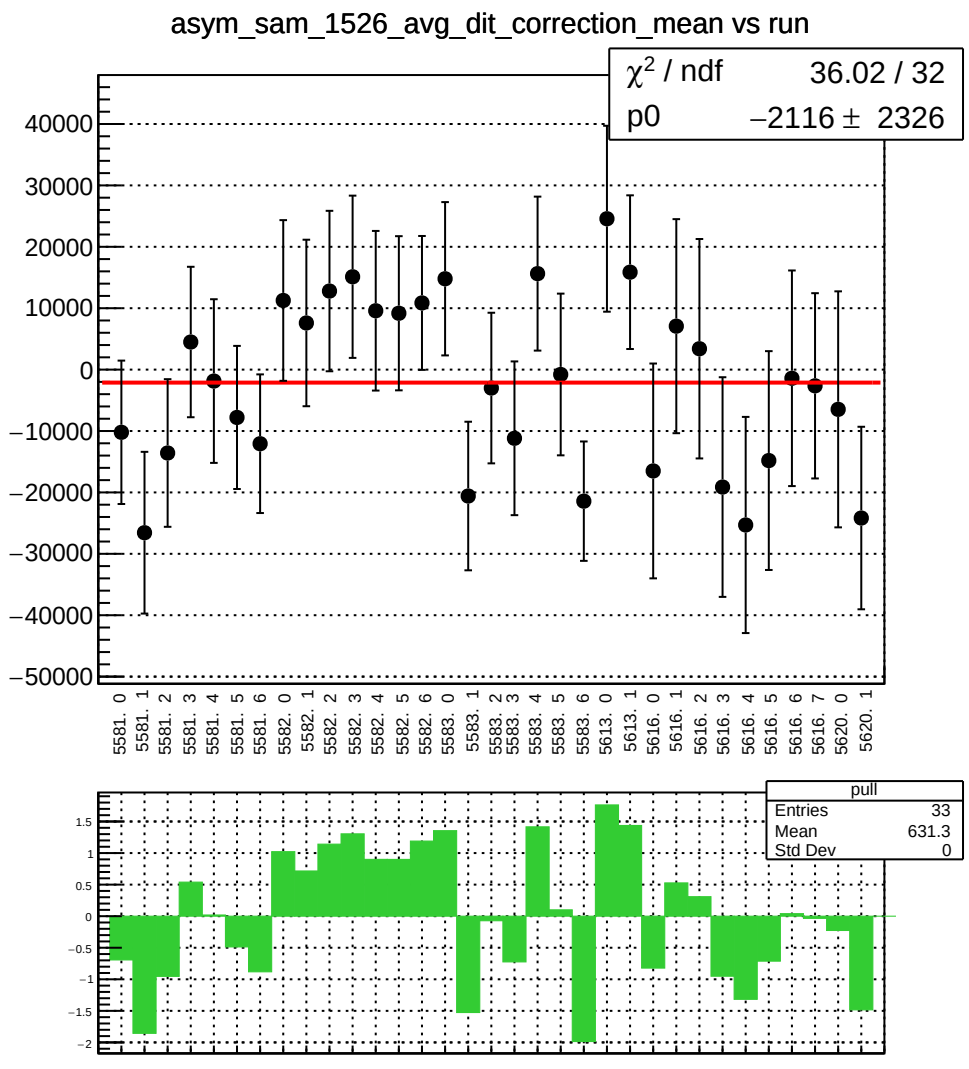

pull1D
Entries 26
Mean 0.02045
Std Dev 1.083
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

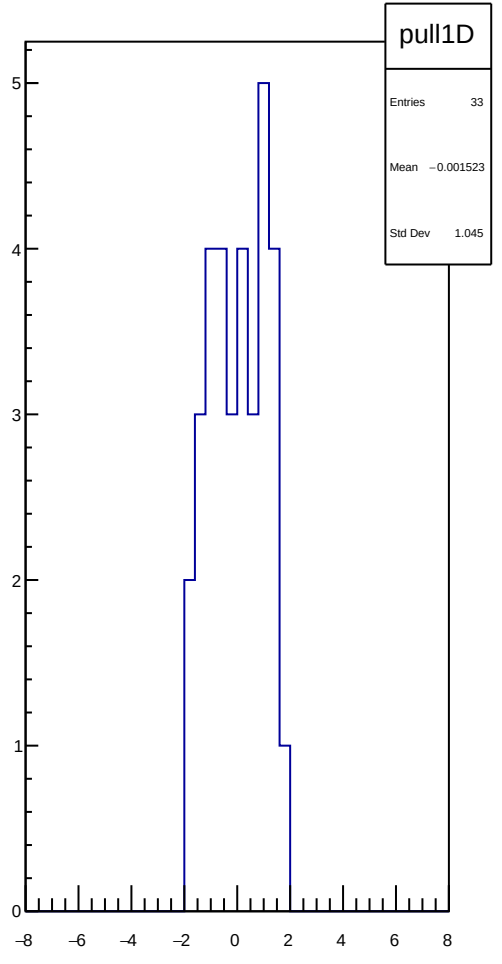

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 4235 / 25
p0 1241 ± 1.731
1700
1600
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

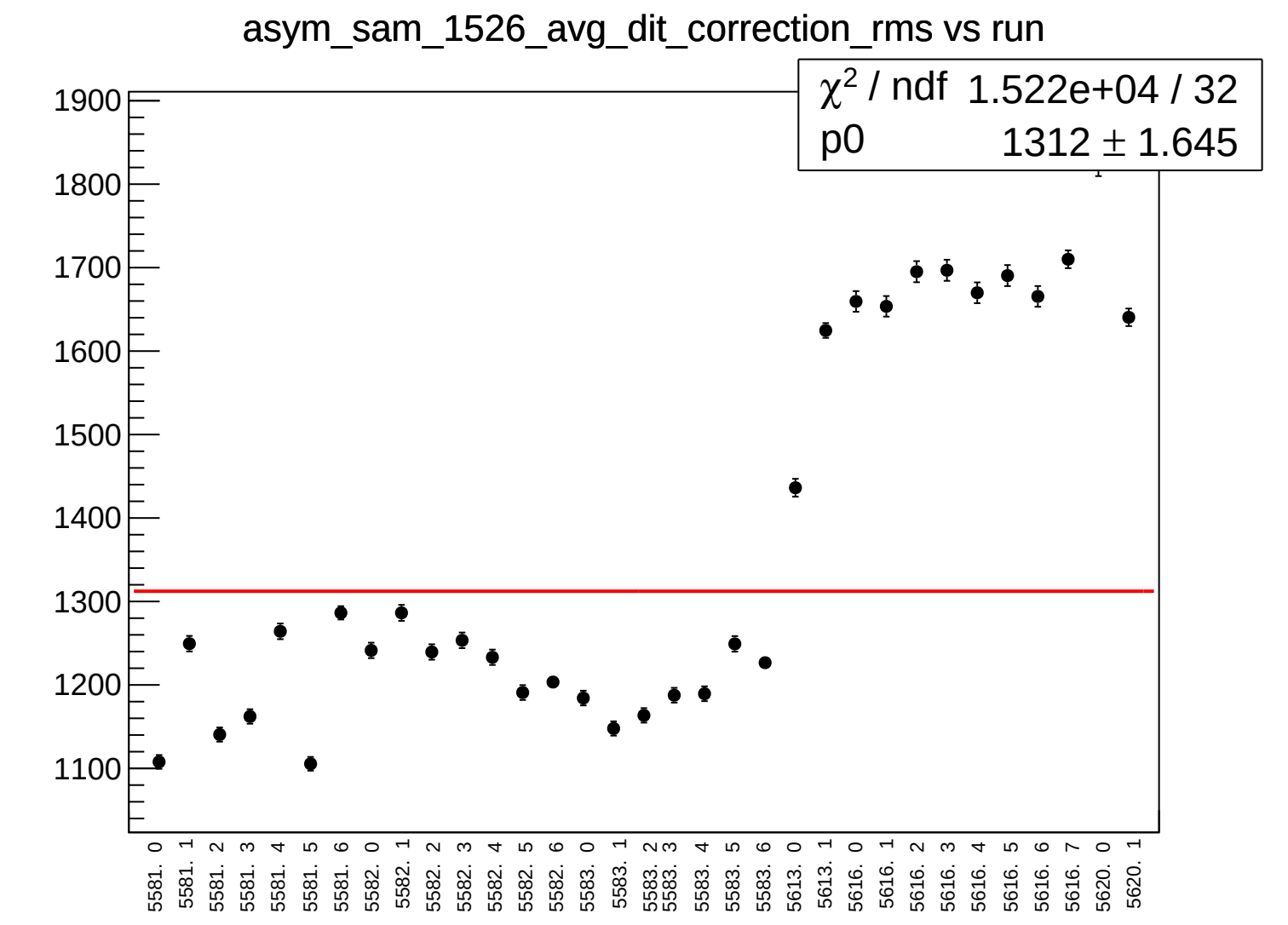

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 28.58 / 32
p0 −699.5 ± 301
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.9
Std Dev 0
2
1
0
−1
−2

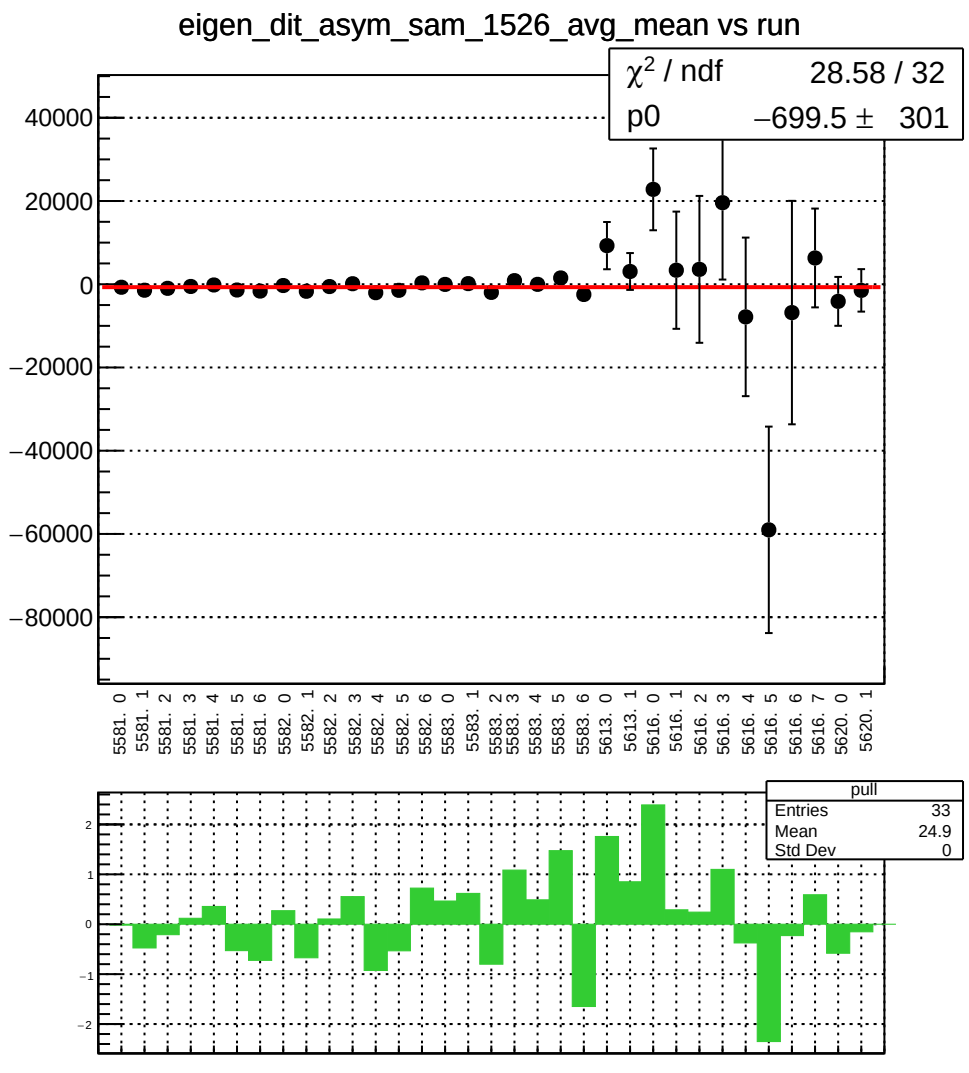

pull1D
Entries 33
Mean 0.09868
Std Dev 0.9254
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

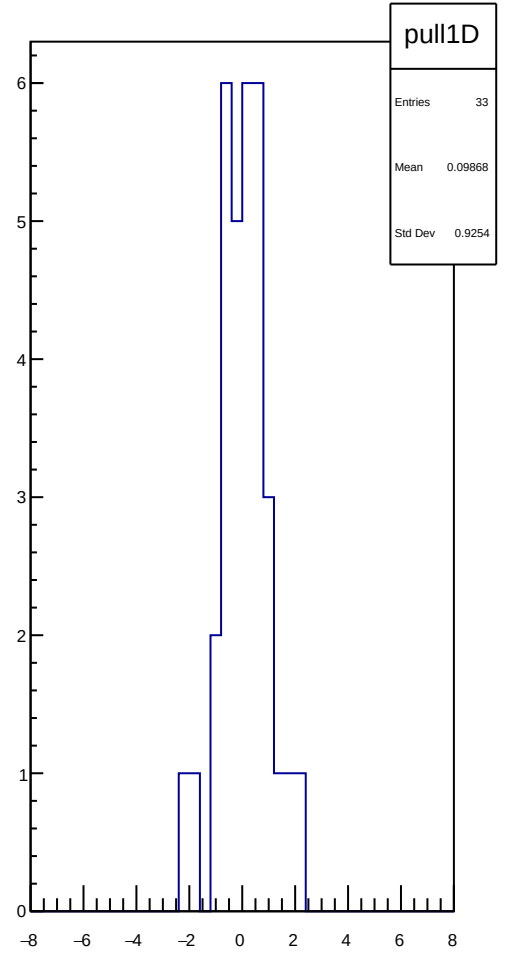

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.796e+05 / 32
p0 146.3 ± 0.2128
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

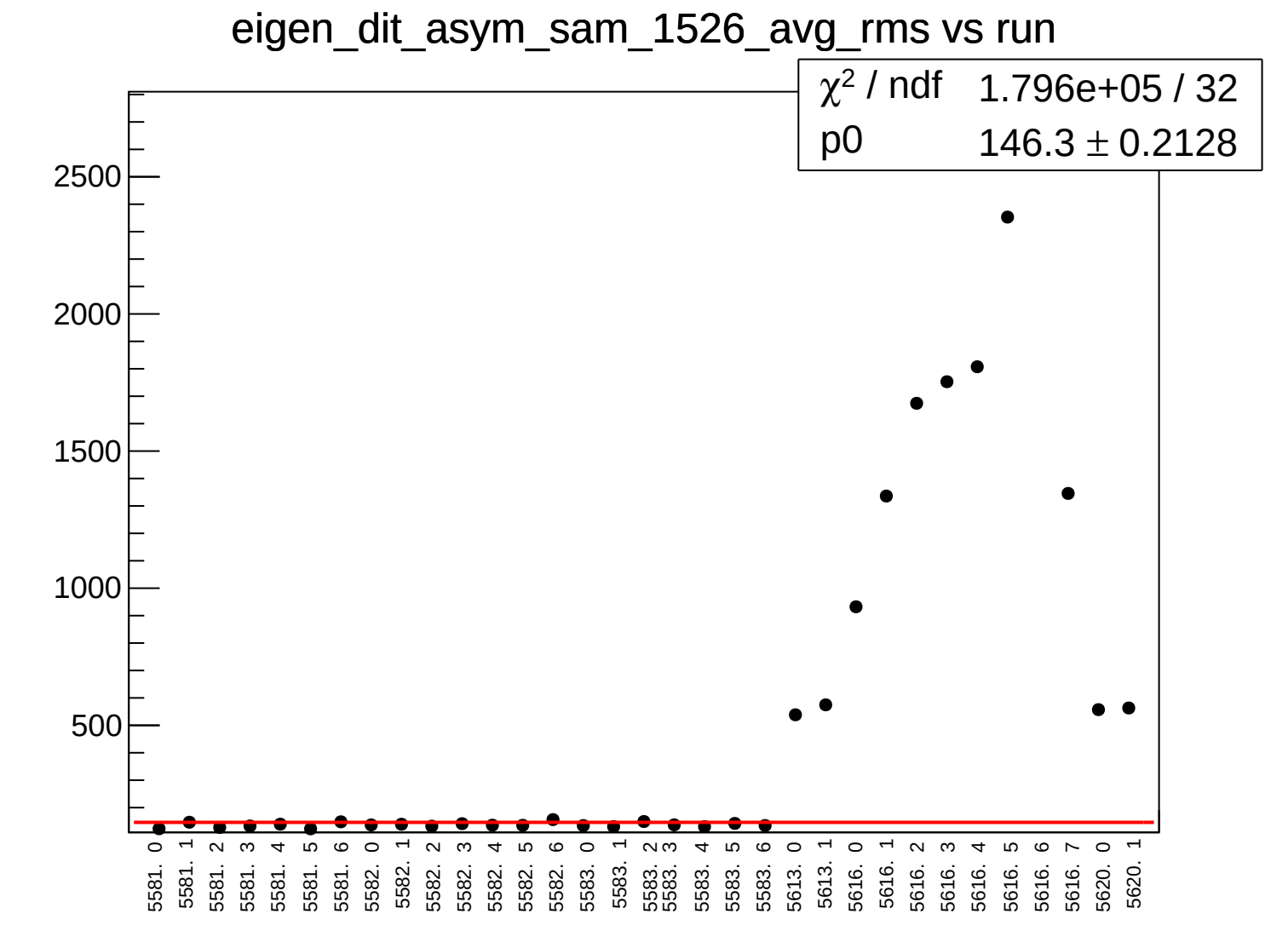

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 36.02 / 32
p0 −2116 ± 2326
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 631.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

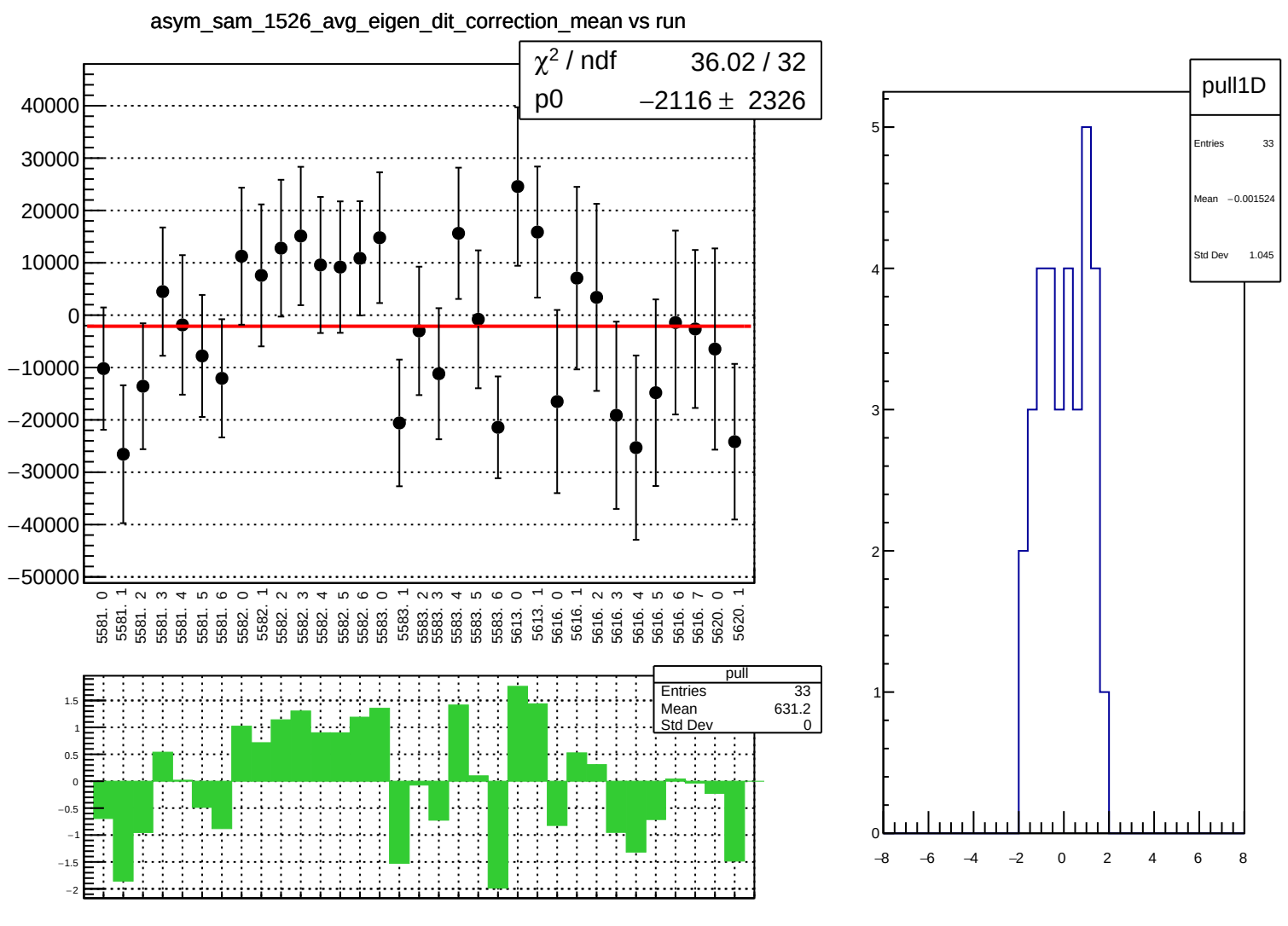

pull1D
Entries 33
Mean −0.001523
Std Dev 1.045
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

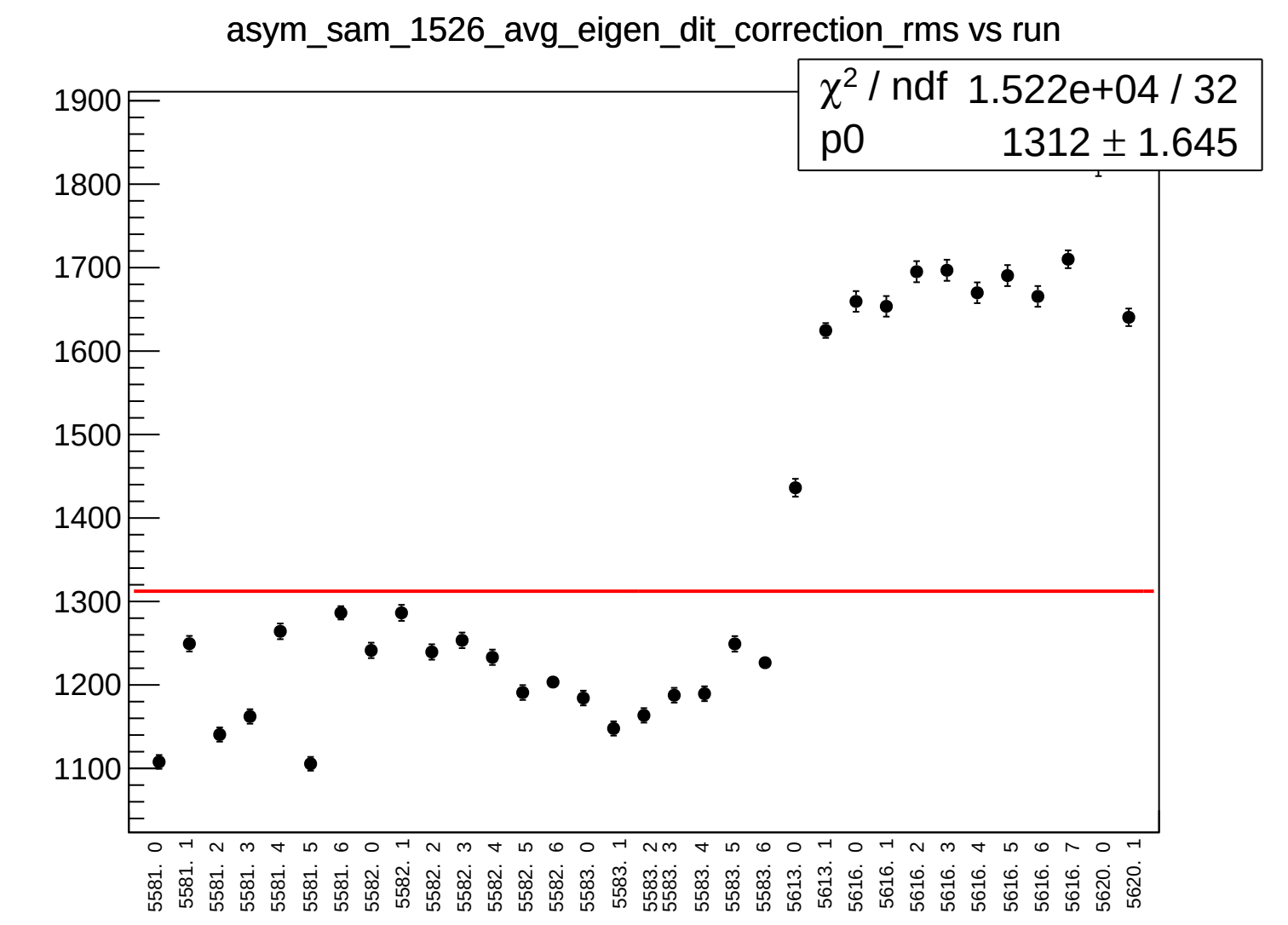

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.522e+04 / 32
p0 1312 ± 1.645
1900
1800
1700
1600
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

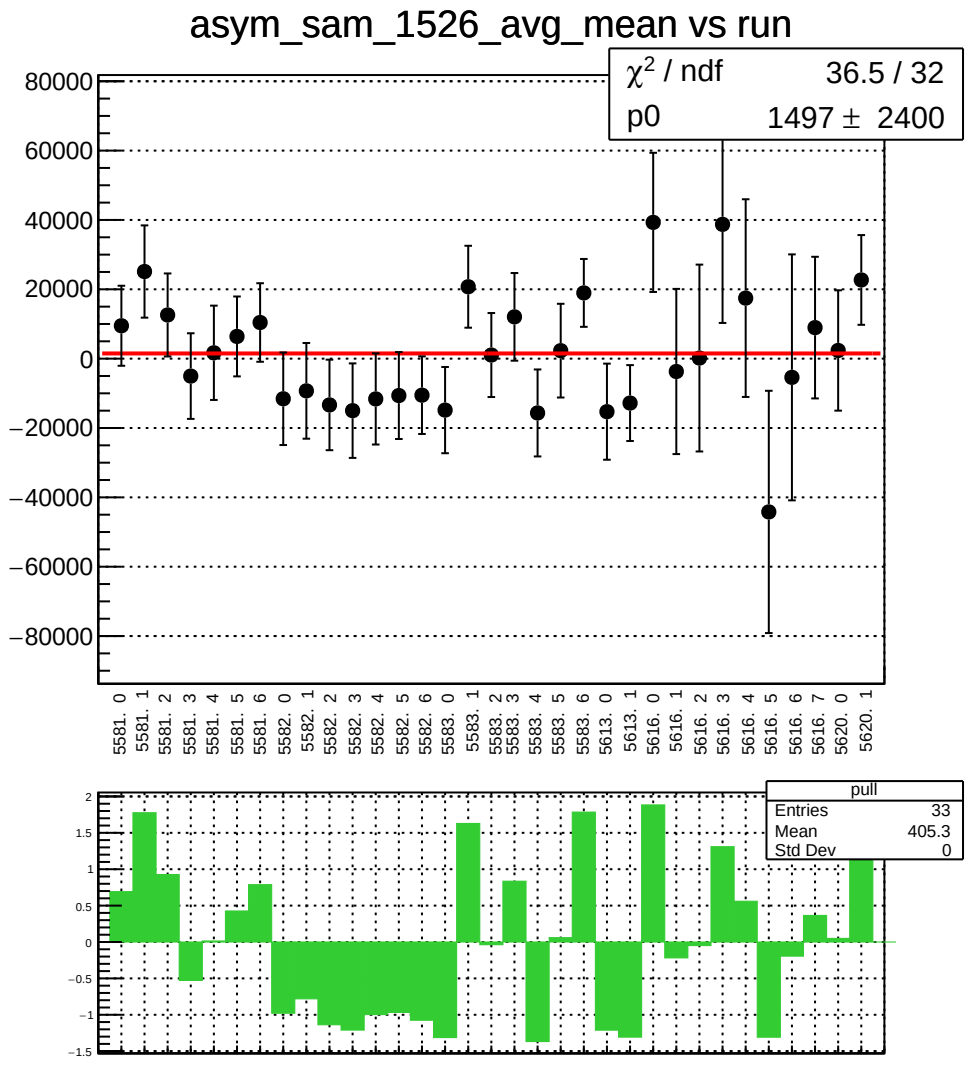

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 28.58 / 32
p0 −699.5 ± 301
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.9
Std Dev 0
2
1
0
−1
−2

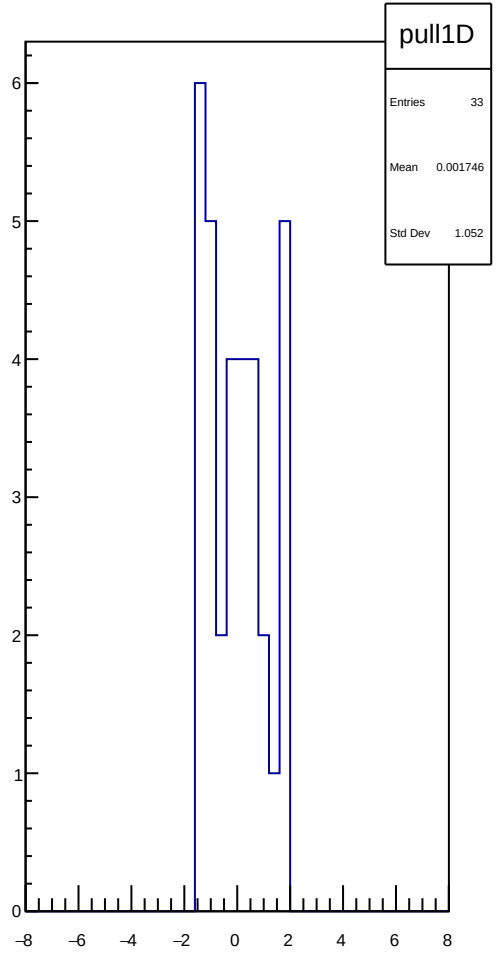

pull1D
Entries 33
Mean 0.09868
Std Dev 0.9254
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

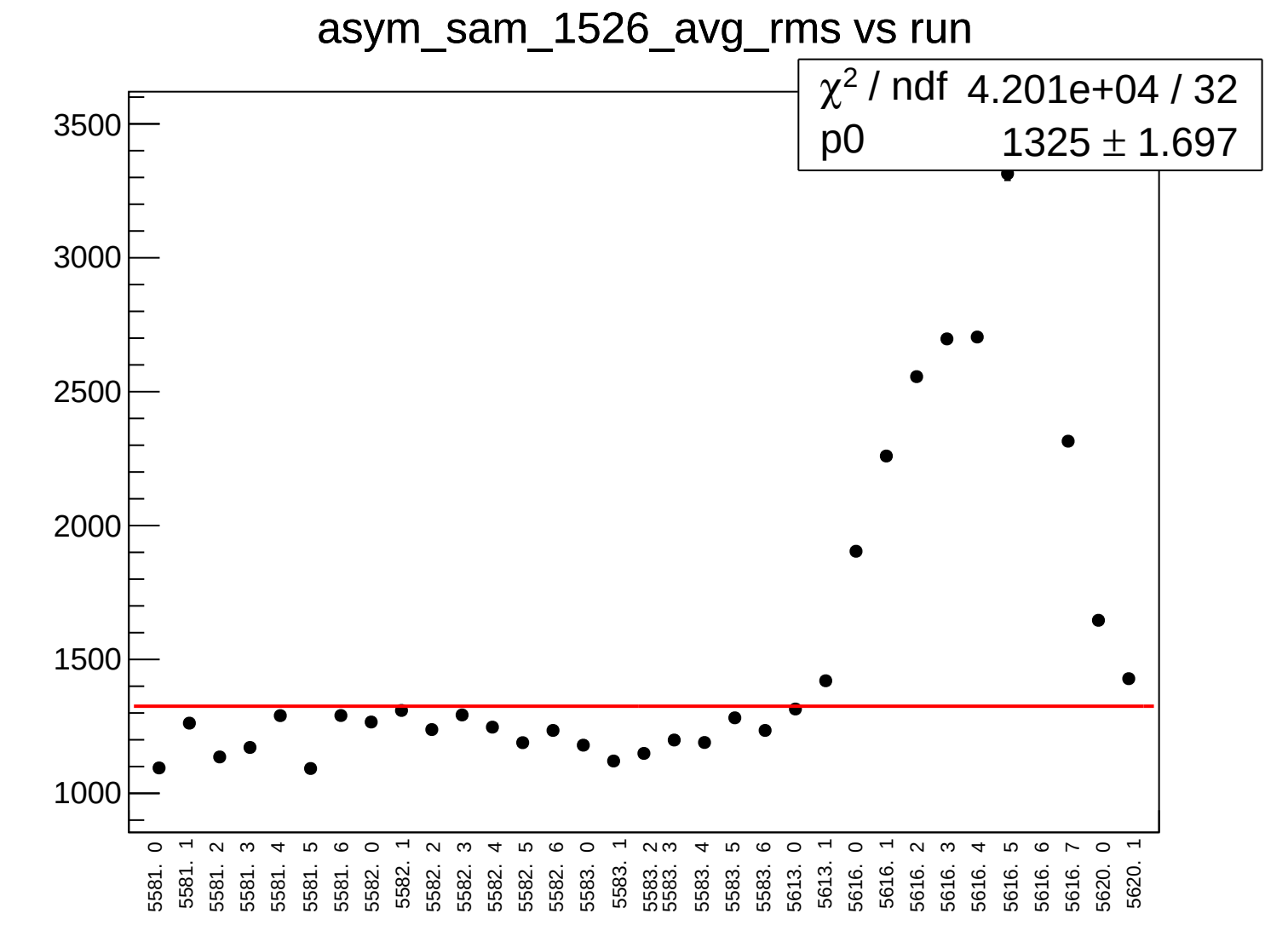

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.796e+05 / 32
p0 146.3 ± 0.2128
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

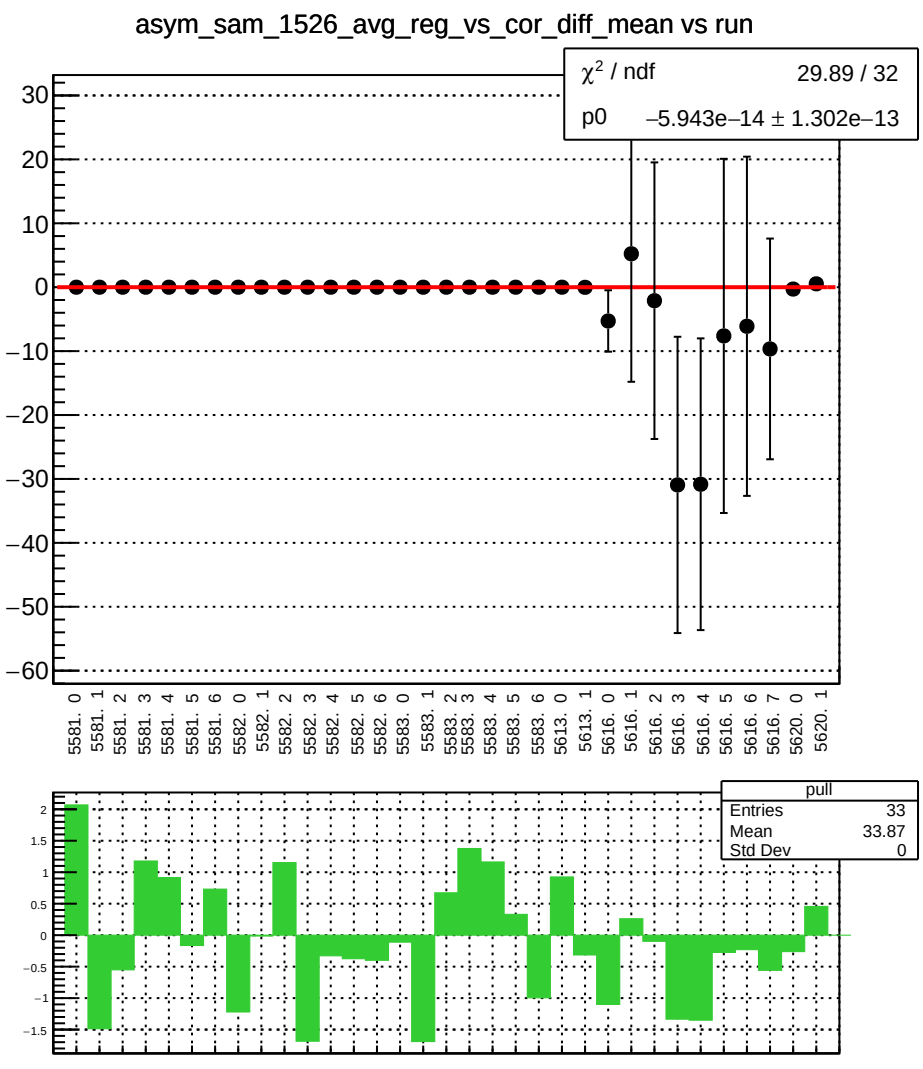

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 36.02 / 32
p0 −2116 ± 2326
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 631.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.001524
Std Dev 1.045
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

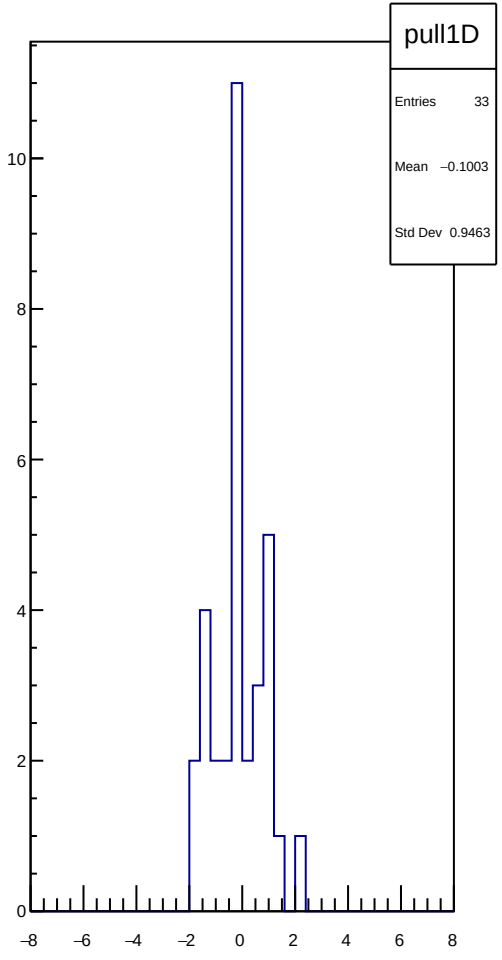

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.522e+04 / 32
p0 1312 ± 1.645
1900
1800
1700
1600
1500
1400
1300
1200
1100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

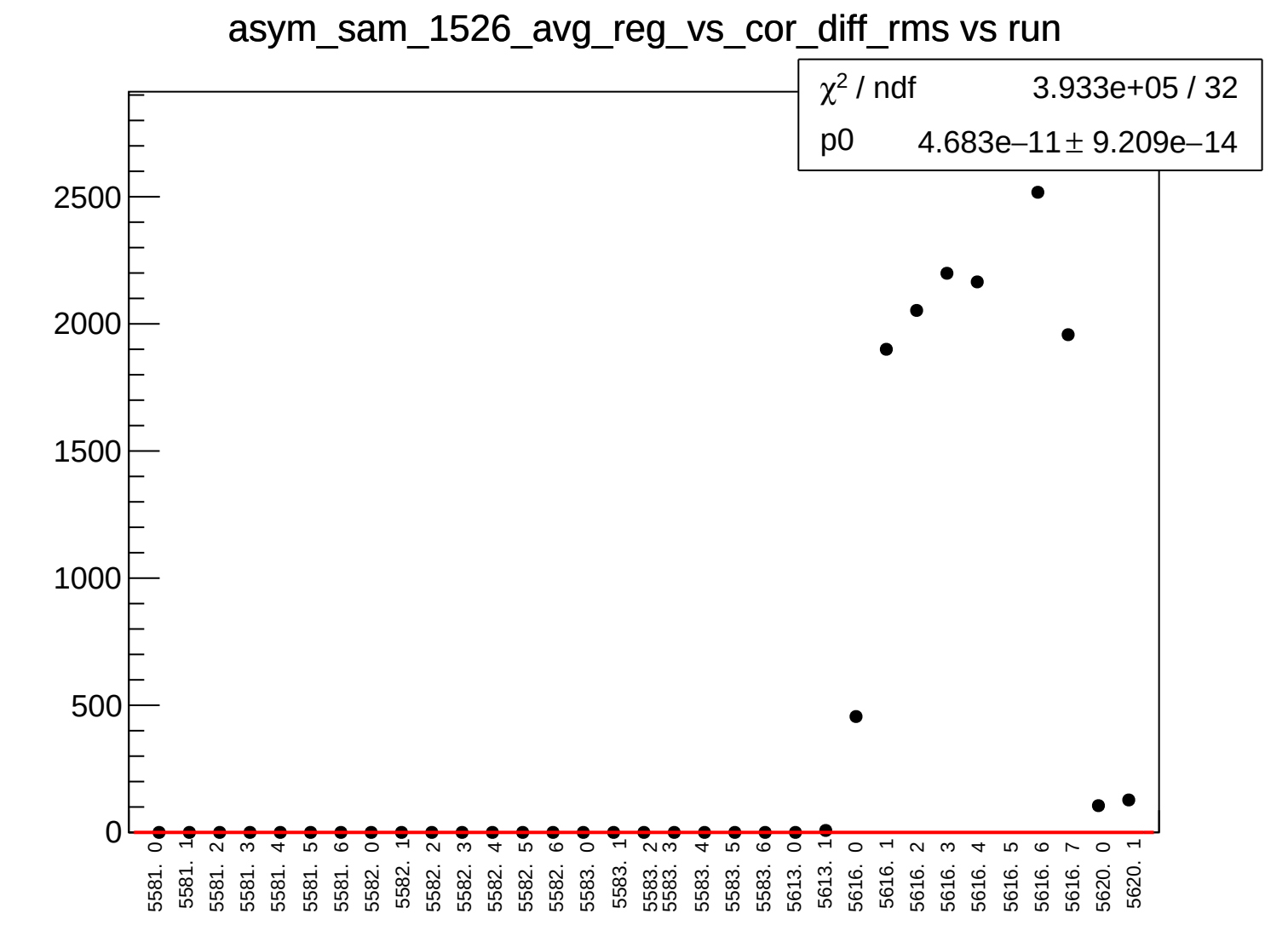

asym_sam_1526_avg_mean vs run
χ² / ndf 36.5 / 32
p0 1497 ± 2400
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 405.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

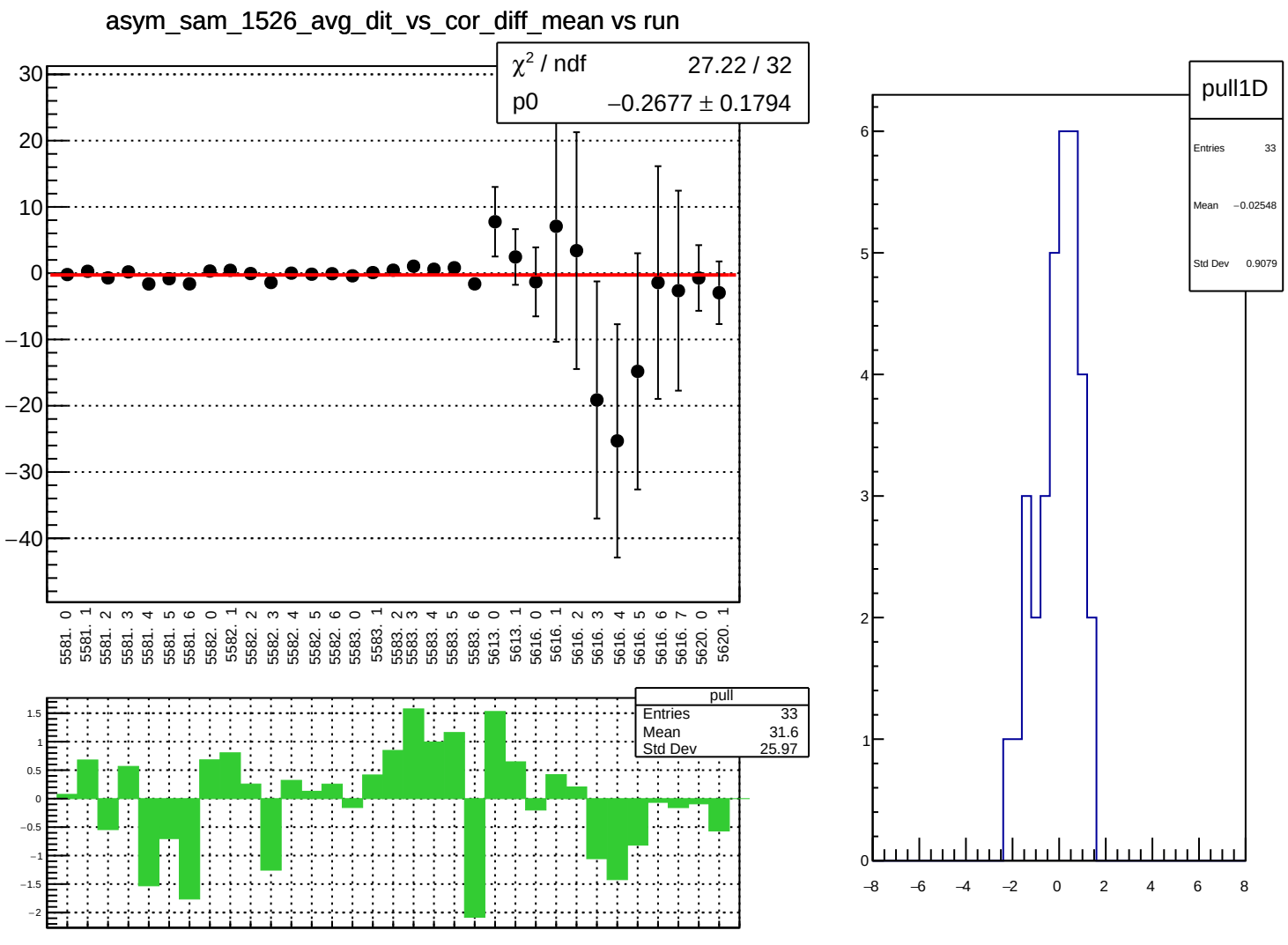

pull1D
Entries 33
Mean 0.001746
Std Dev 1.052
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

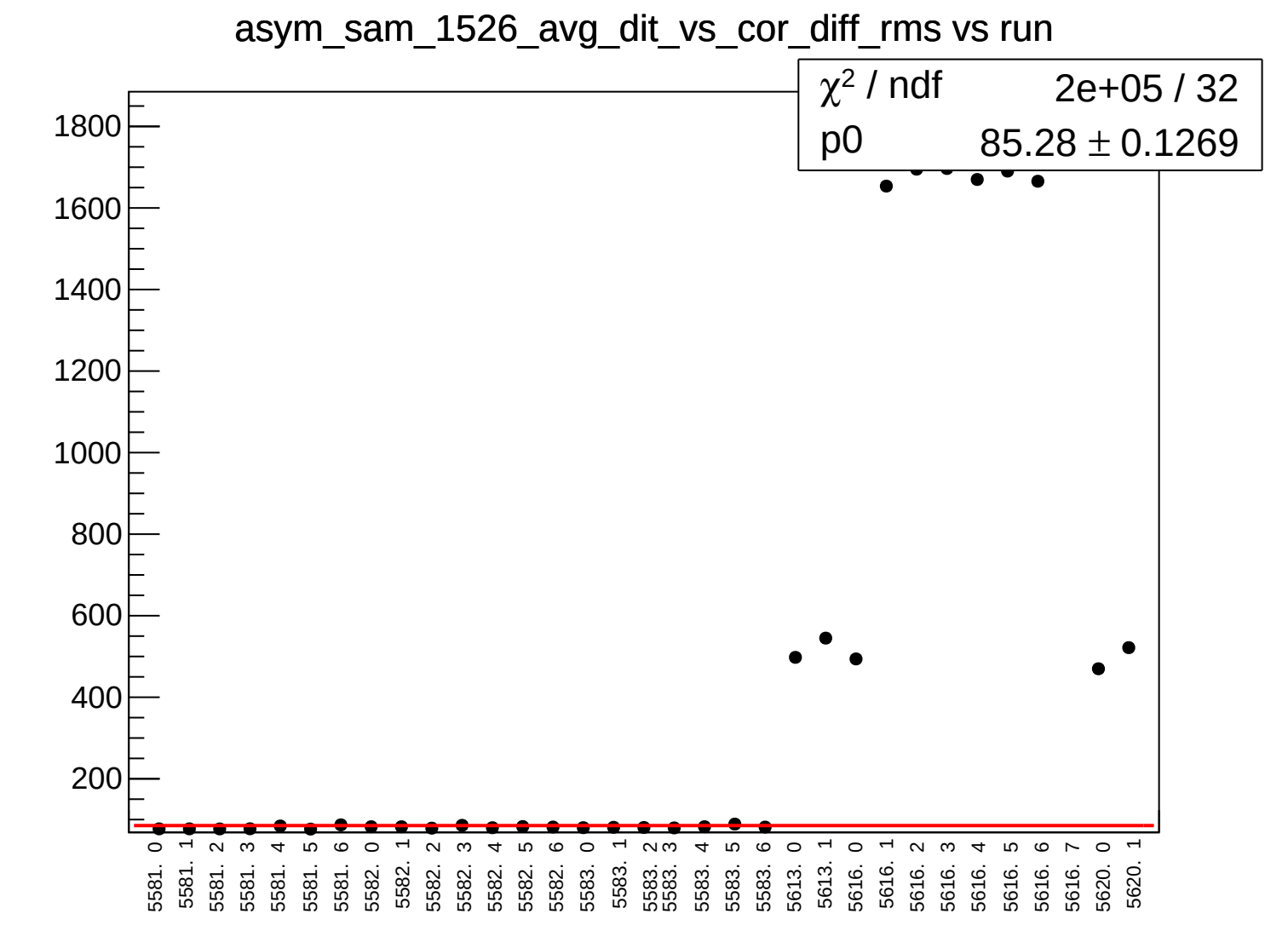

asym_sam_1526_avg_rms vs run
χ² / ndf 4.201e+04 / 32
p0 1325 ± 1.697
3500
3000
2500
2000
1500
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1


asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 29.89 / 32
p0 −5.943e−14 ± 1.302e−13
pull
Entries 33
Mean 33.87
Std Dev 0

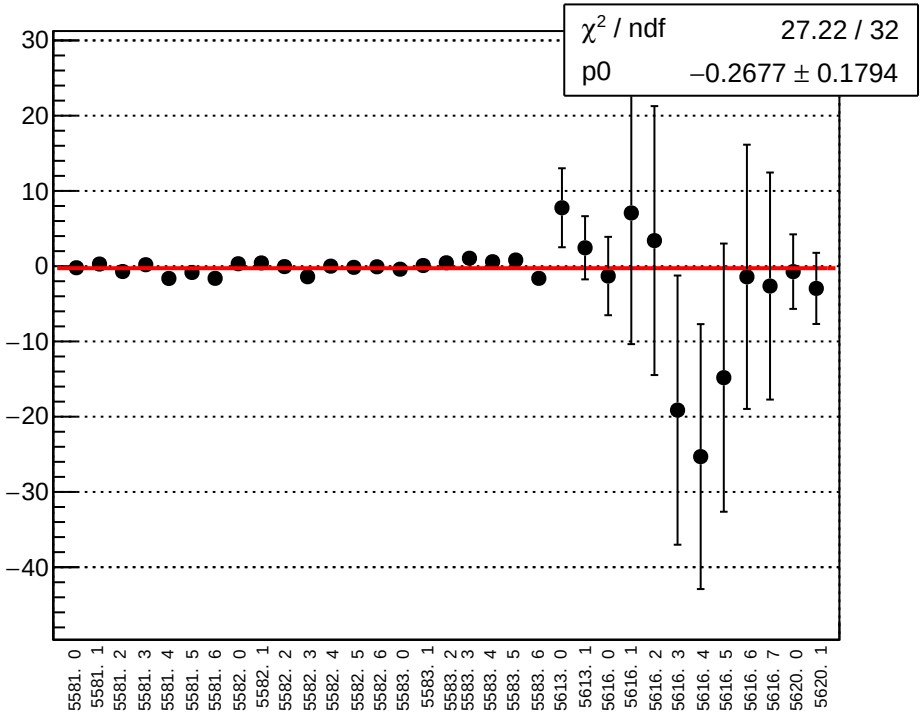

pull1D
Entries 33
Mean −0.1003
Std Dev 0.9463

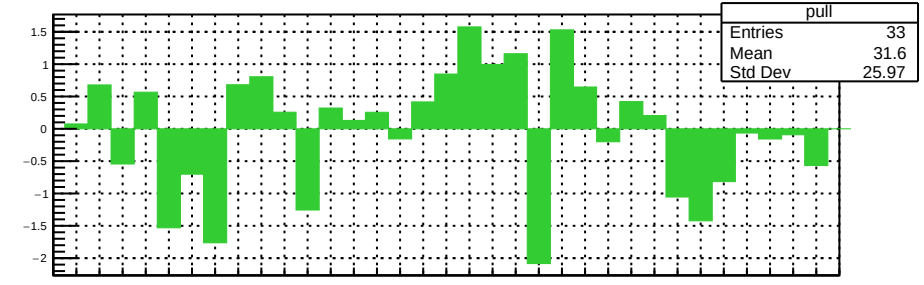

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.933e+05 / 32
p0 4.683e−11 ± 9.209e−14
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

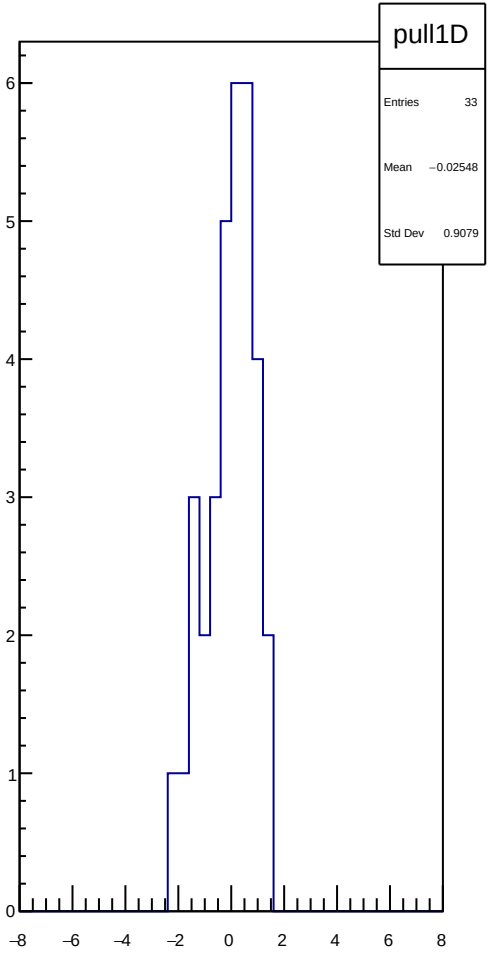

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 27.22 / 32
p0 −0.2677 ± 0.1794
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.6
Std Dev 25.97
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02548
Std Dev 0.9079
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

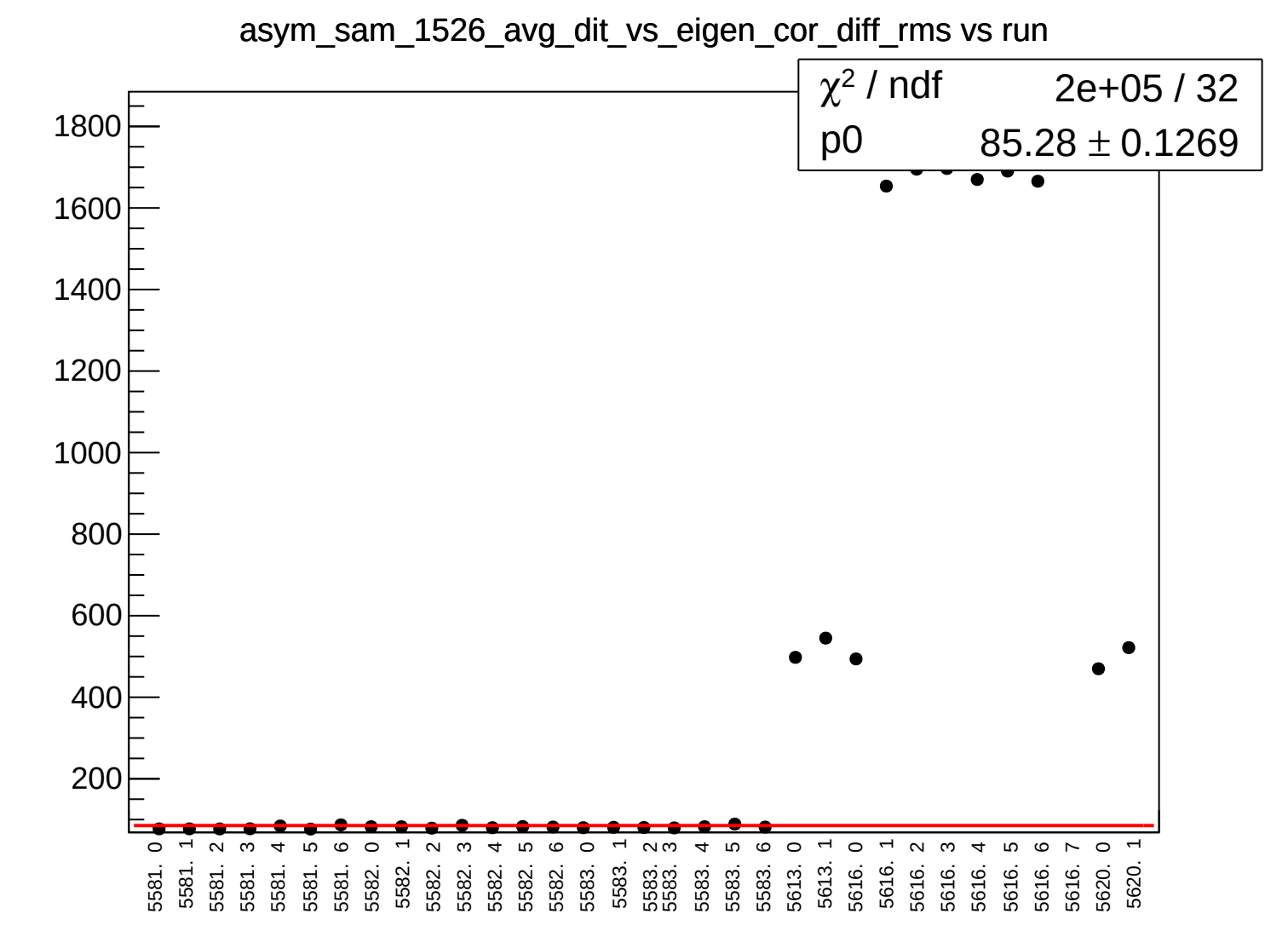

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2e+05 / 32
p0 85.28 ± 0.1269
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

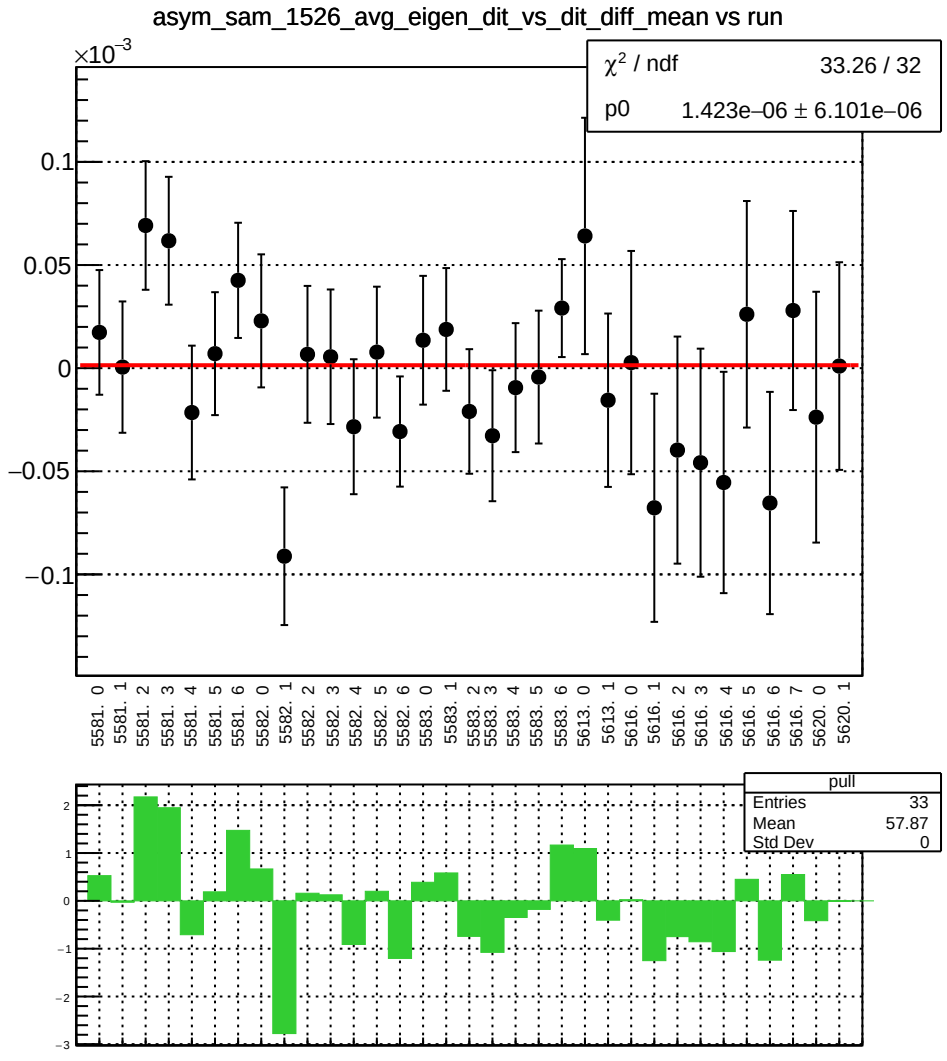
asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run

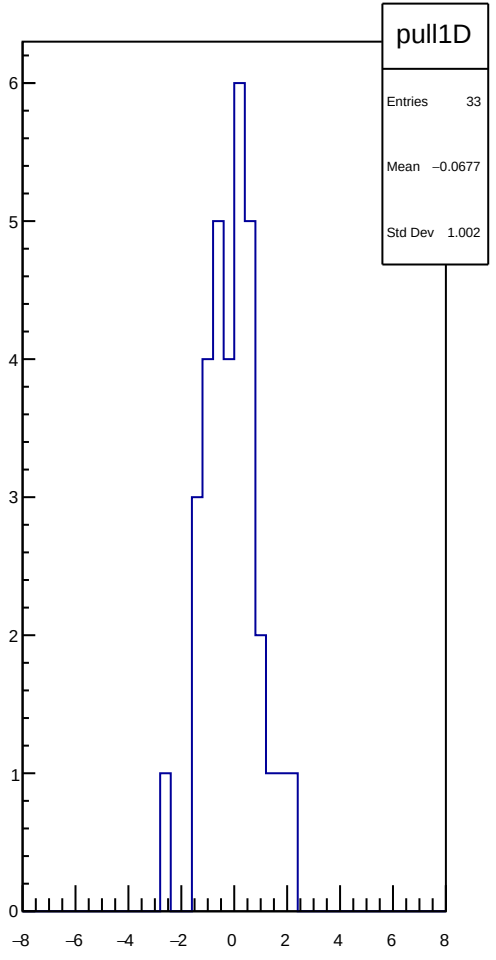


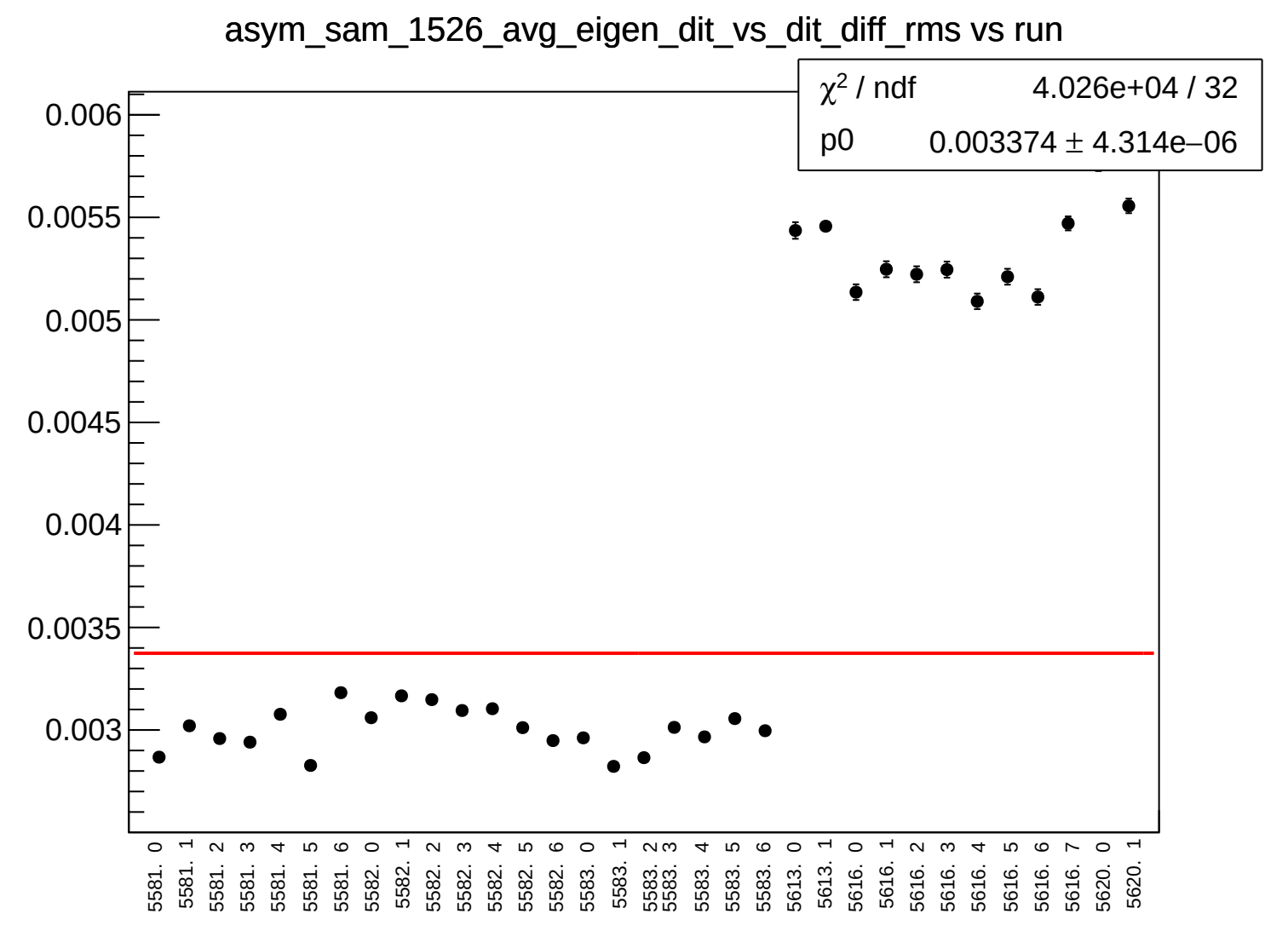


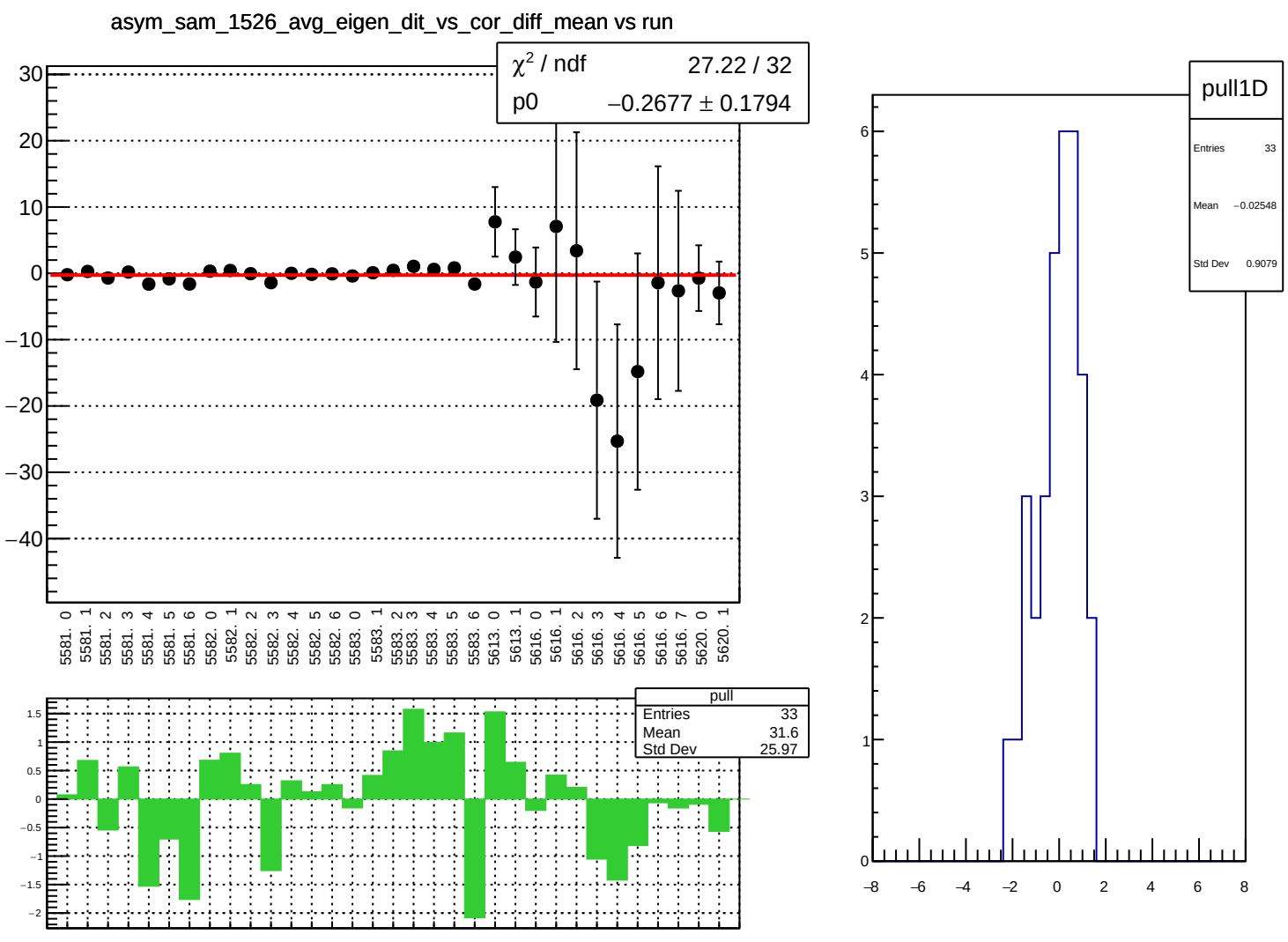


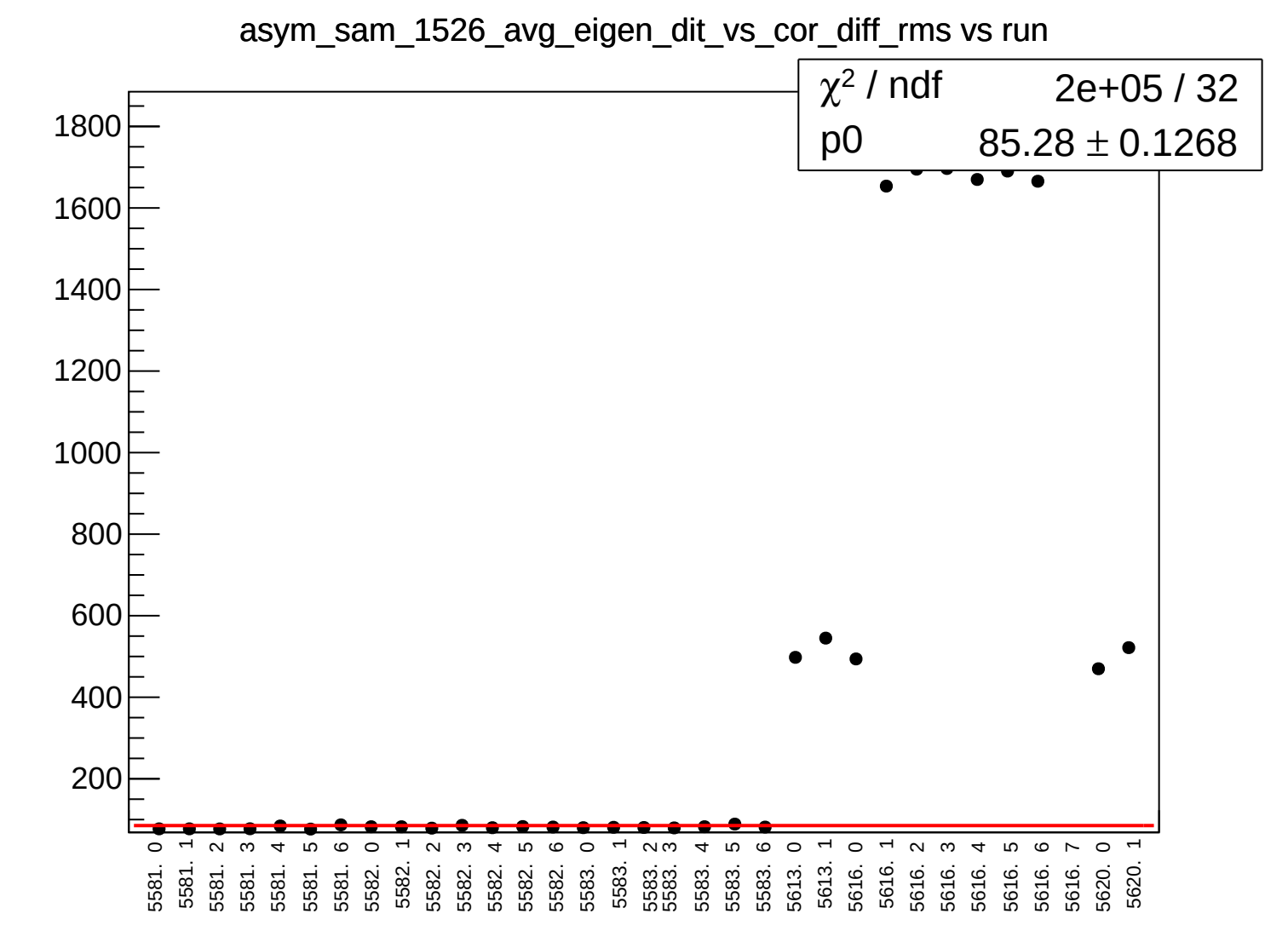

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2e+05 / 32
p0 85.28 ± 0.1269
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

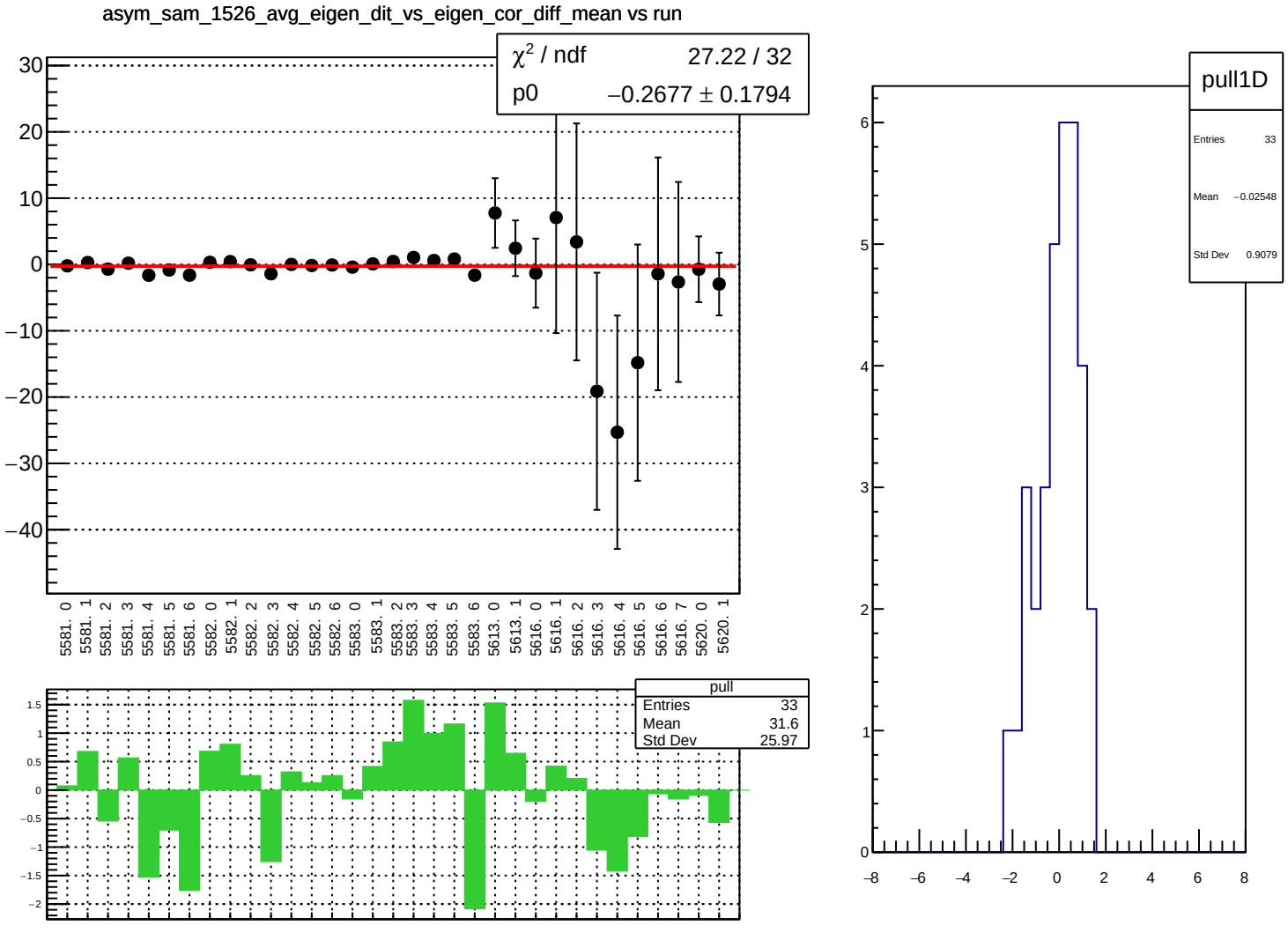

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 33.26 / 32
p0 1.423e−06 ± 6.101e−06
0.1
0.05
0
−0.05
−0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 57.87
Std Dev 0
2
1
0
−1
−2
−3

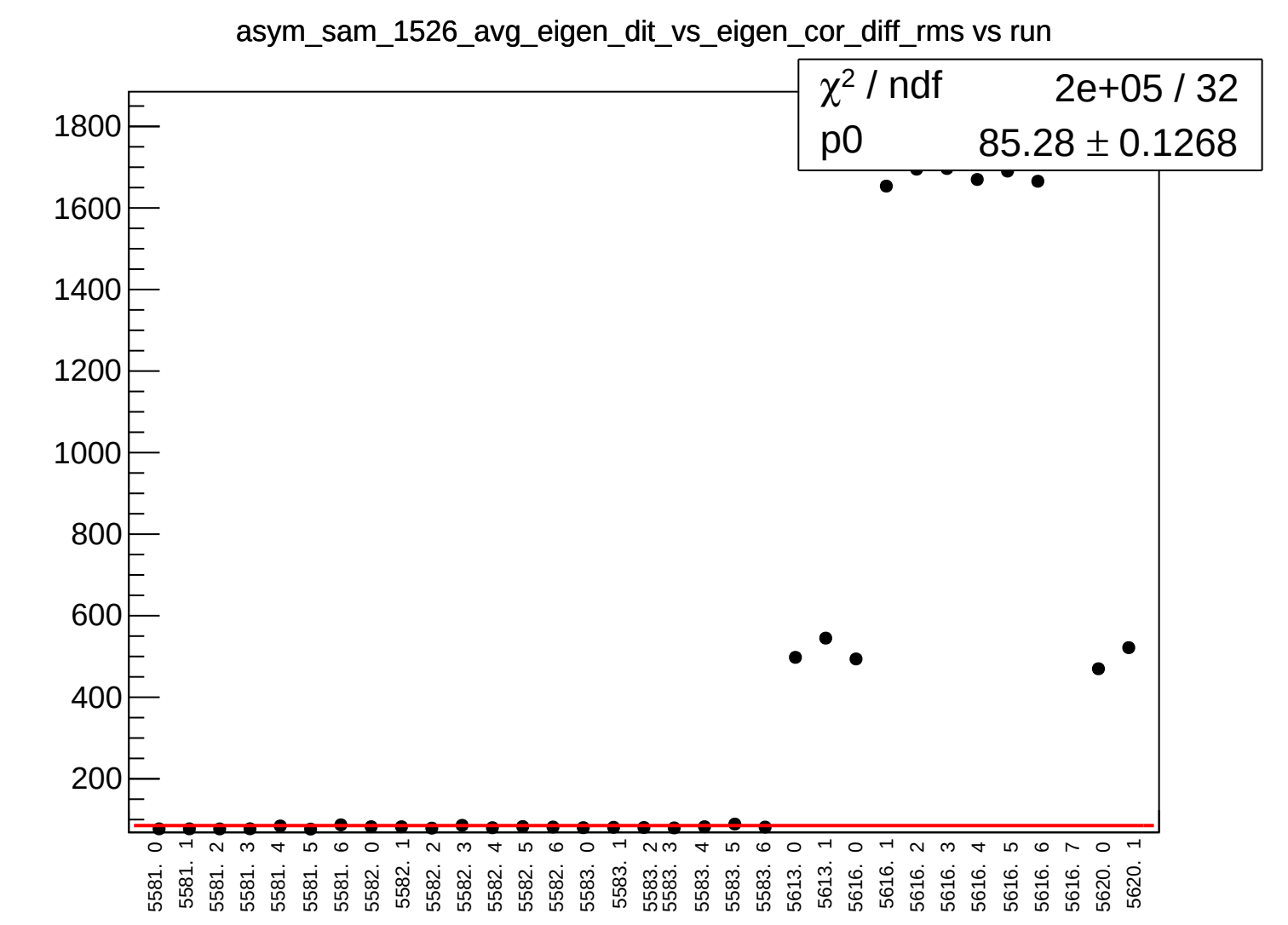

pull1D
Entries 33
Mean −0.0677
Std Dev 1.002
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

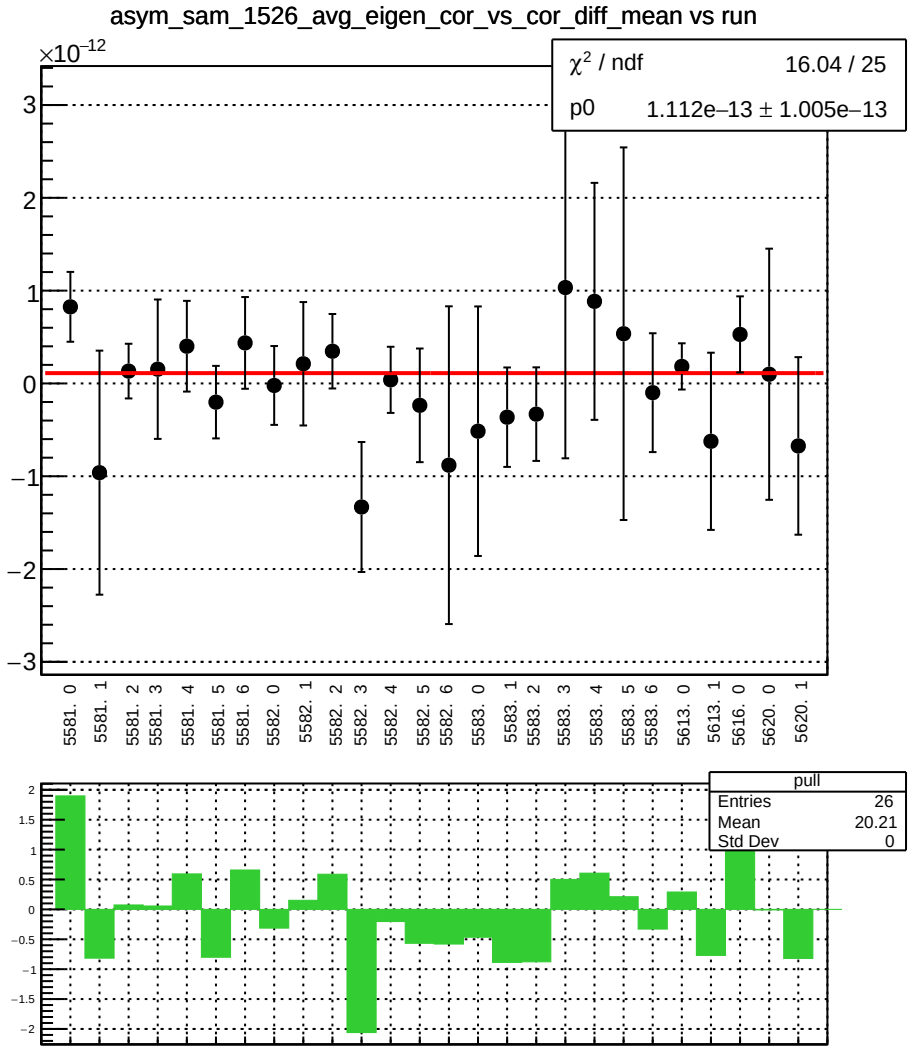

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.026e+04 / 32
p0 0.003374 ± 4.314e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

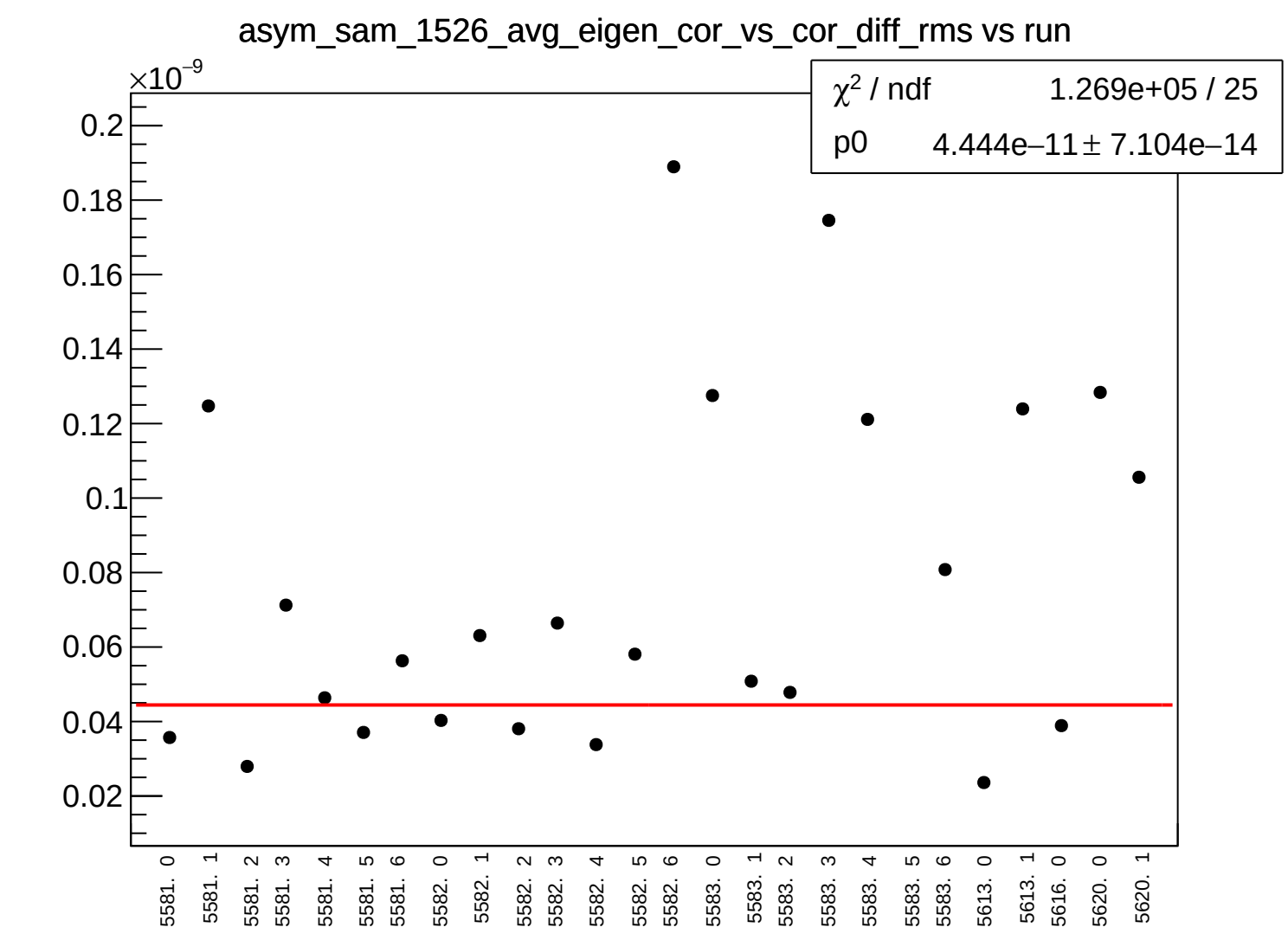

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.22 / 32
p0 −0.2677 ± 0.1794
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.6
Std Dev 25.97
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02548
Std Dev 0.9079
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

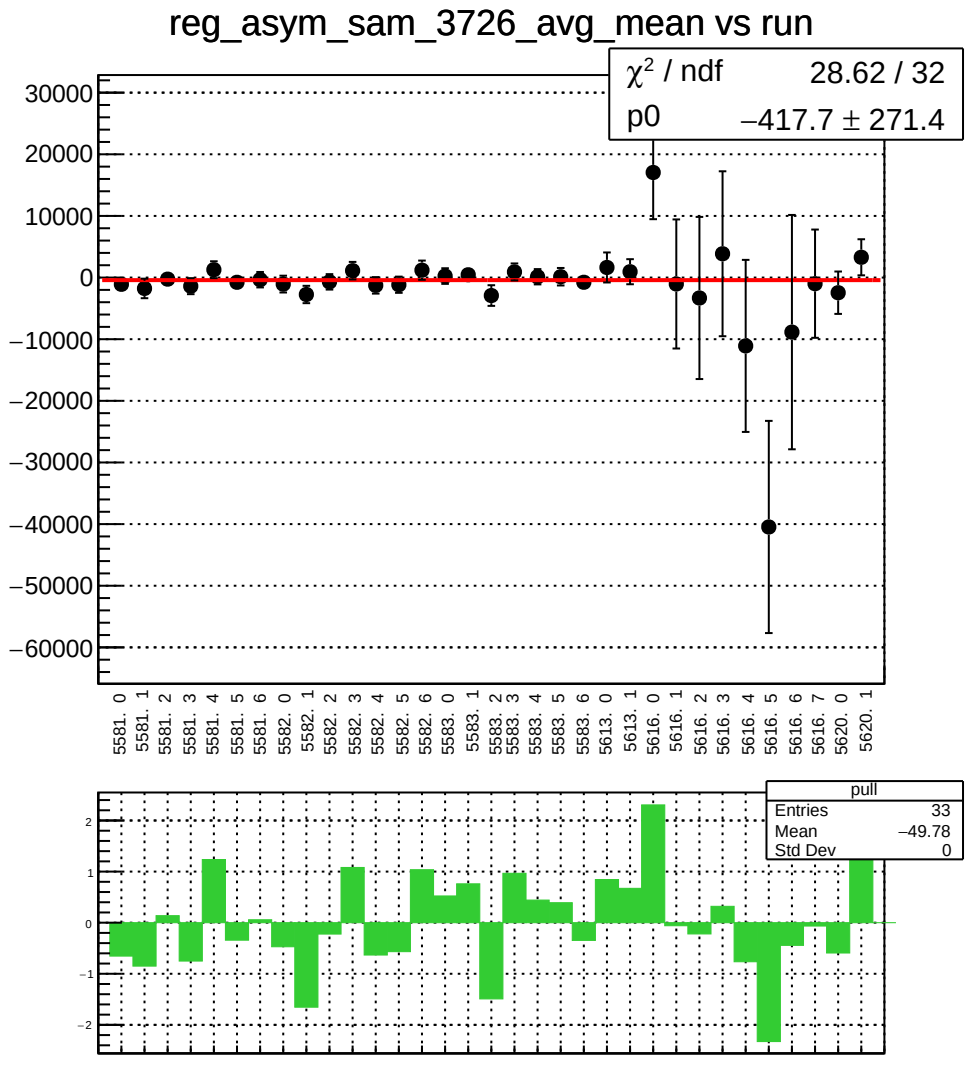

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2e+05 / 32
p0 85.28 ± 0.1268
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

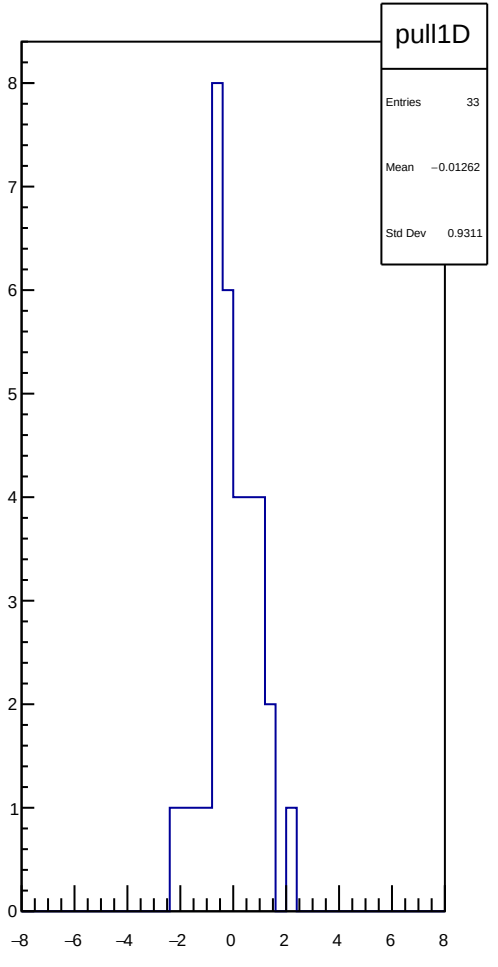

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.22 / 32
p0 −0.2677 ± 0.1794
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.6
Std Dev 25.97
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02548
Std Dev 0.9079
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

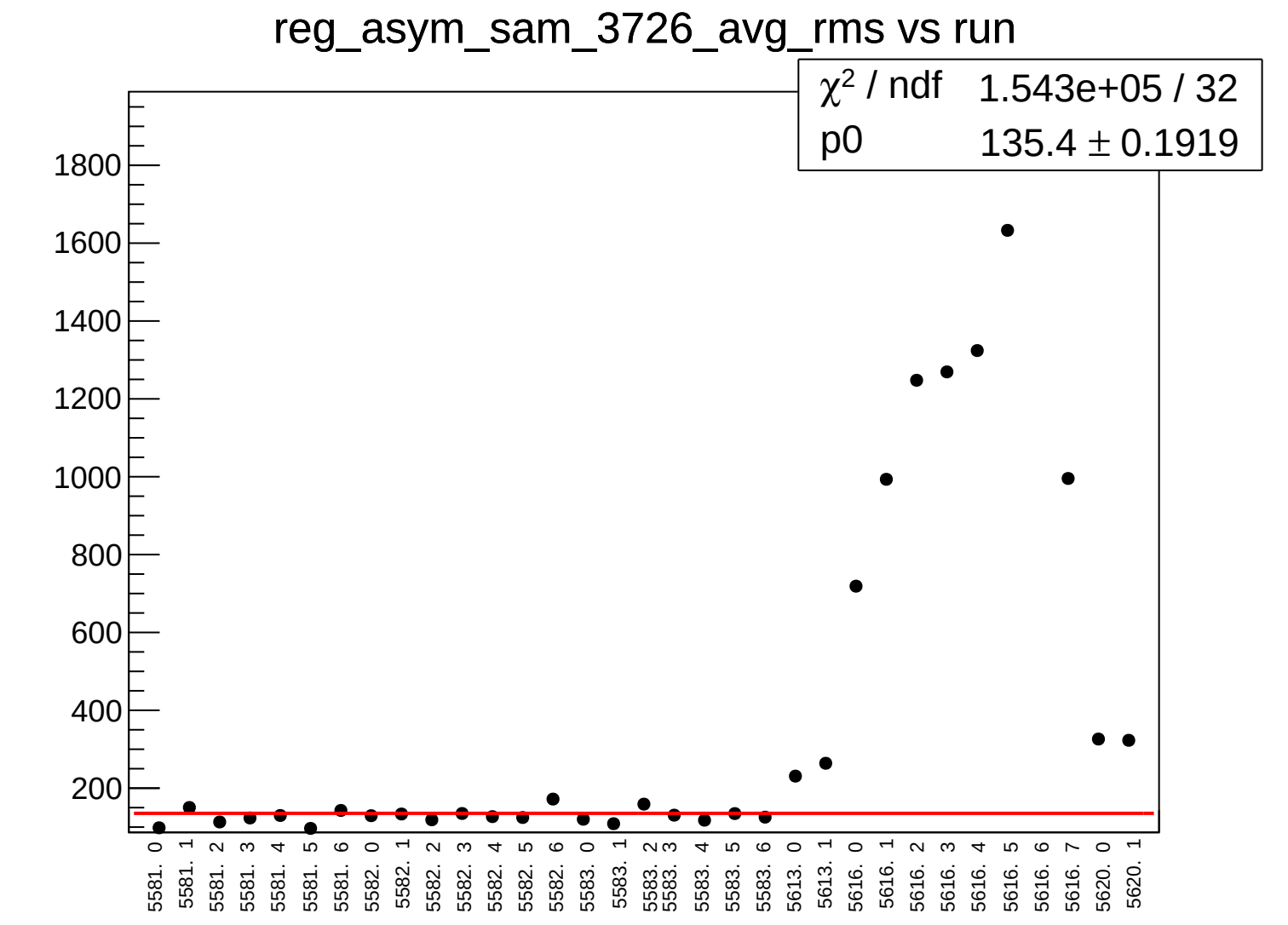

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2e+05 / 32
p0 85.28 ± 0.1268
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

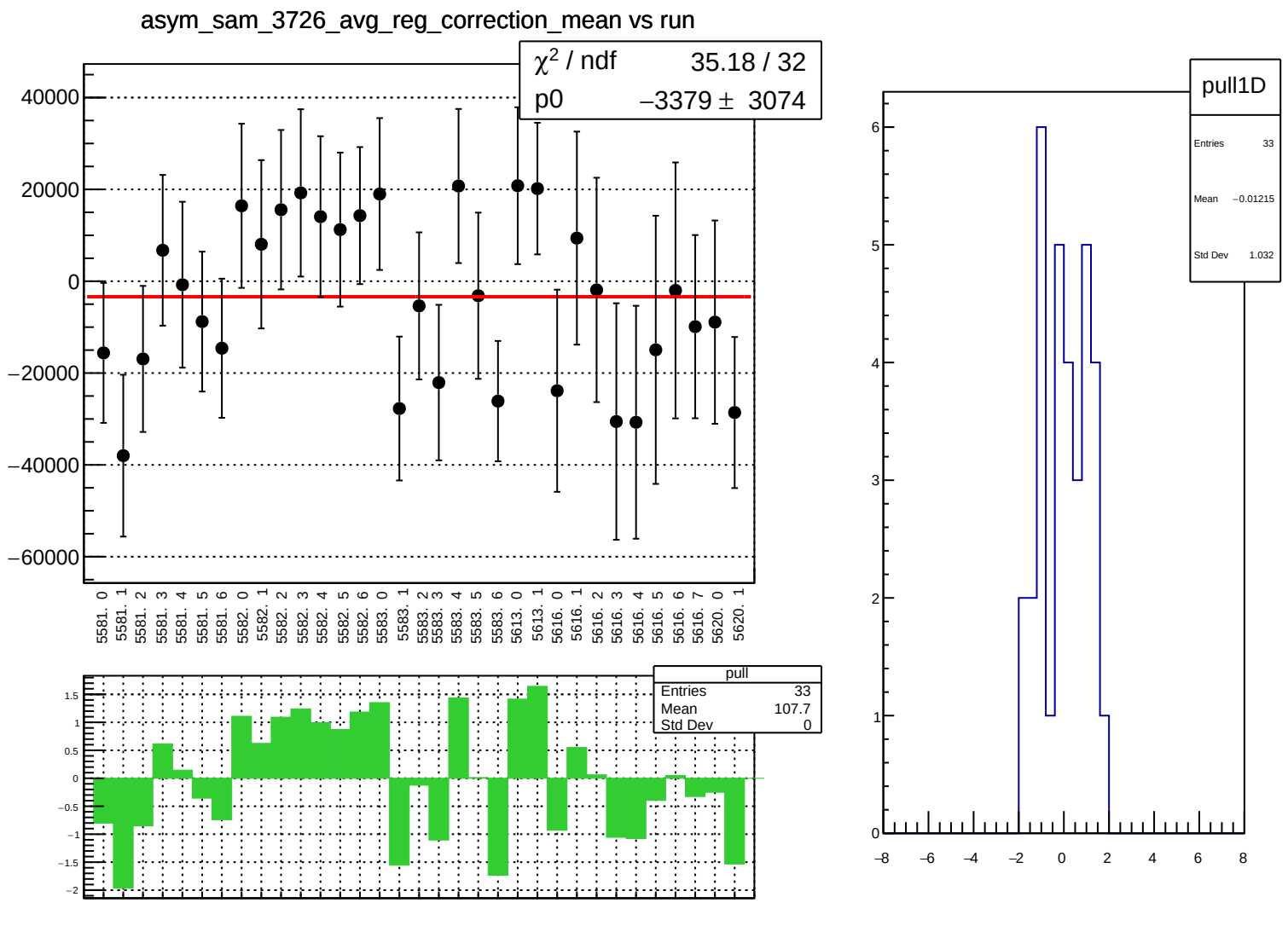

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 16.04 / 25
p0 1.112e−13 ± 1.005e−13
3
2
1
0
−1
−2
−3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 20.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.1096
Std Dev 0.7777
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

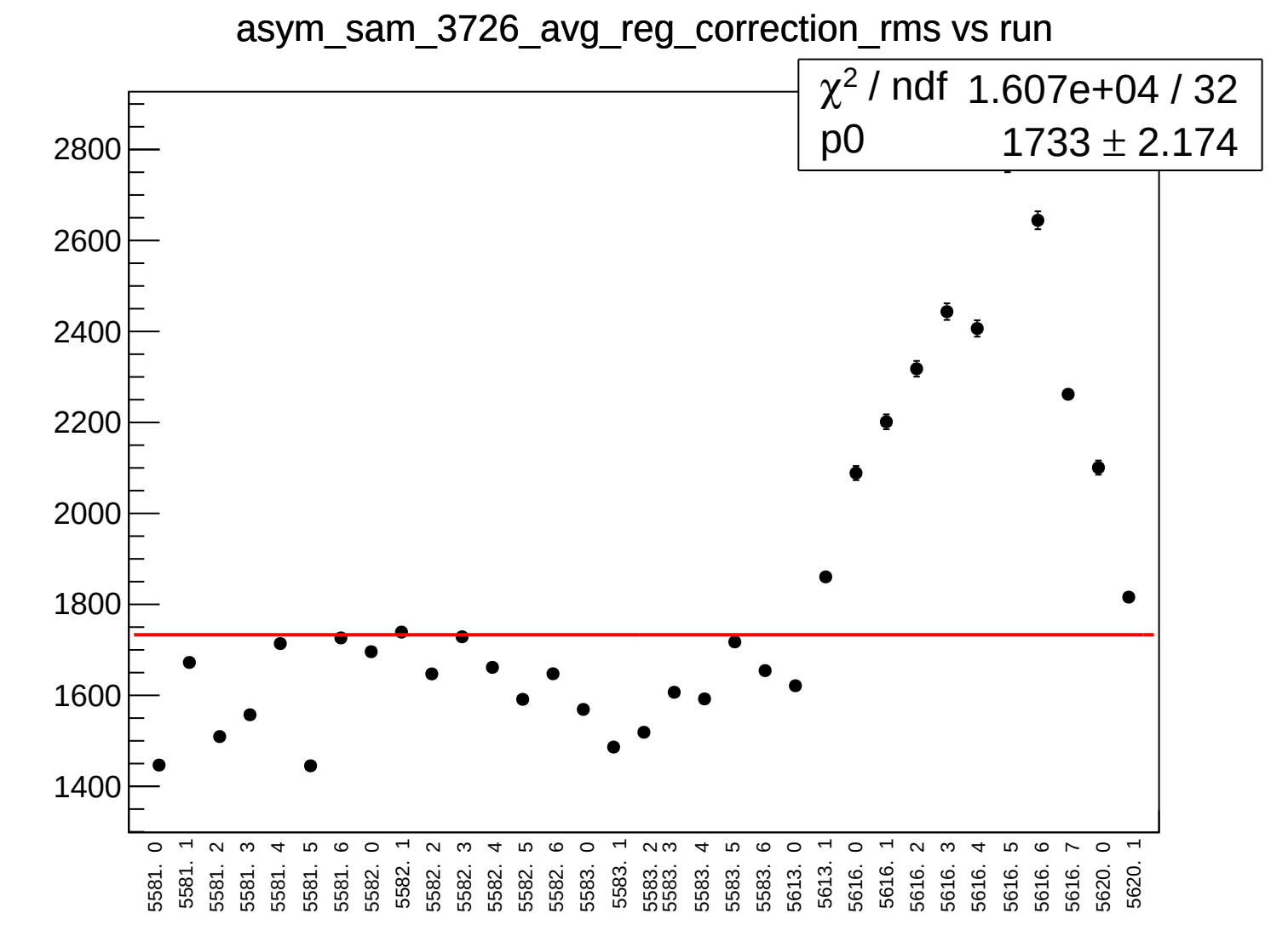

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.269e+05 / 25
p0 4.444e−11 ± 7.104e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

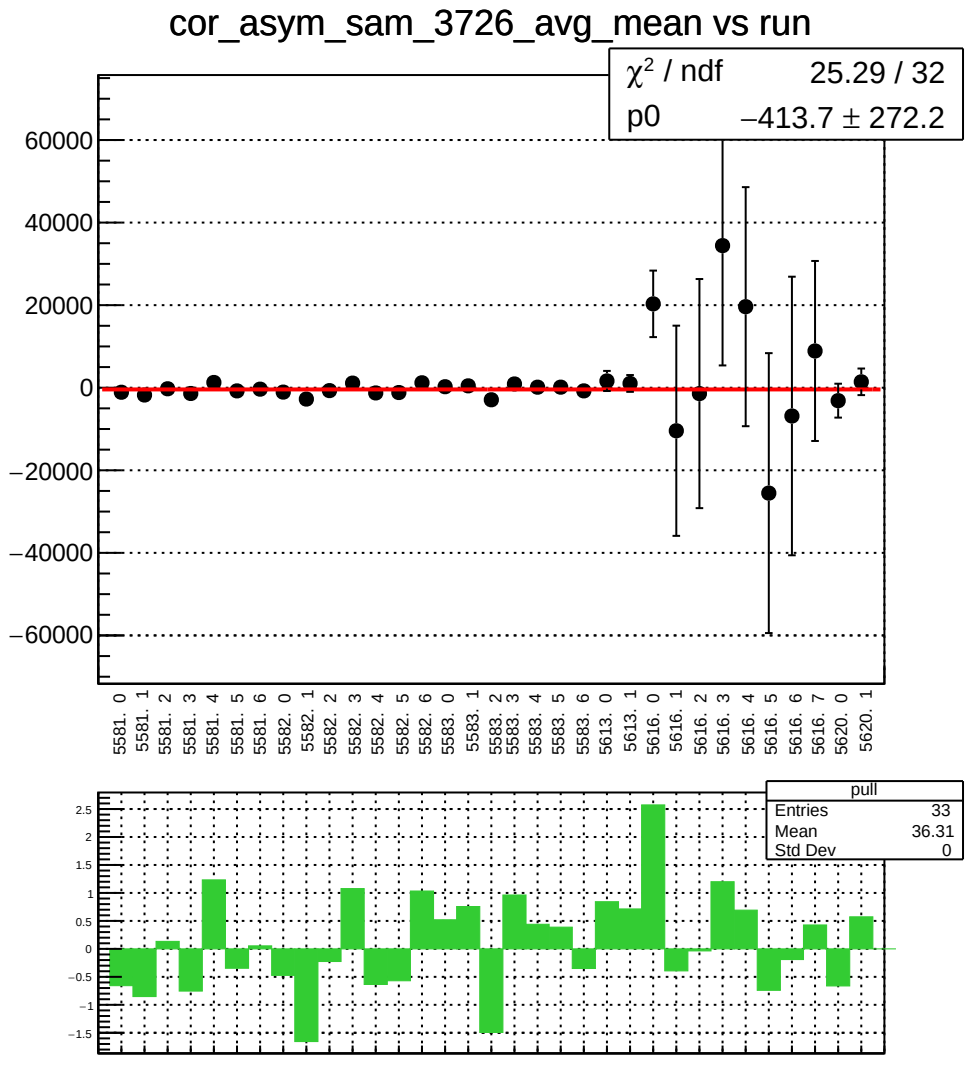

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 28.62 / 32
p0 −417.7 ± 271.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −49.78
Std Dev 0
2
1
0
−1
−2

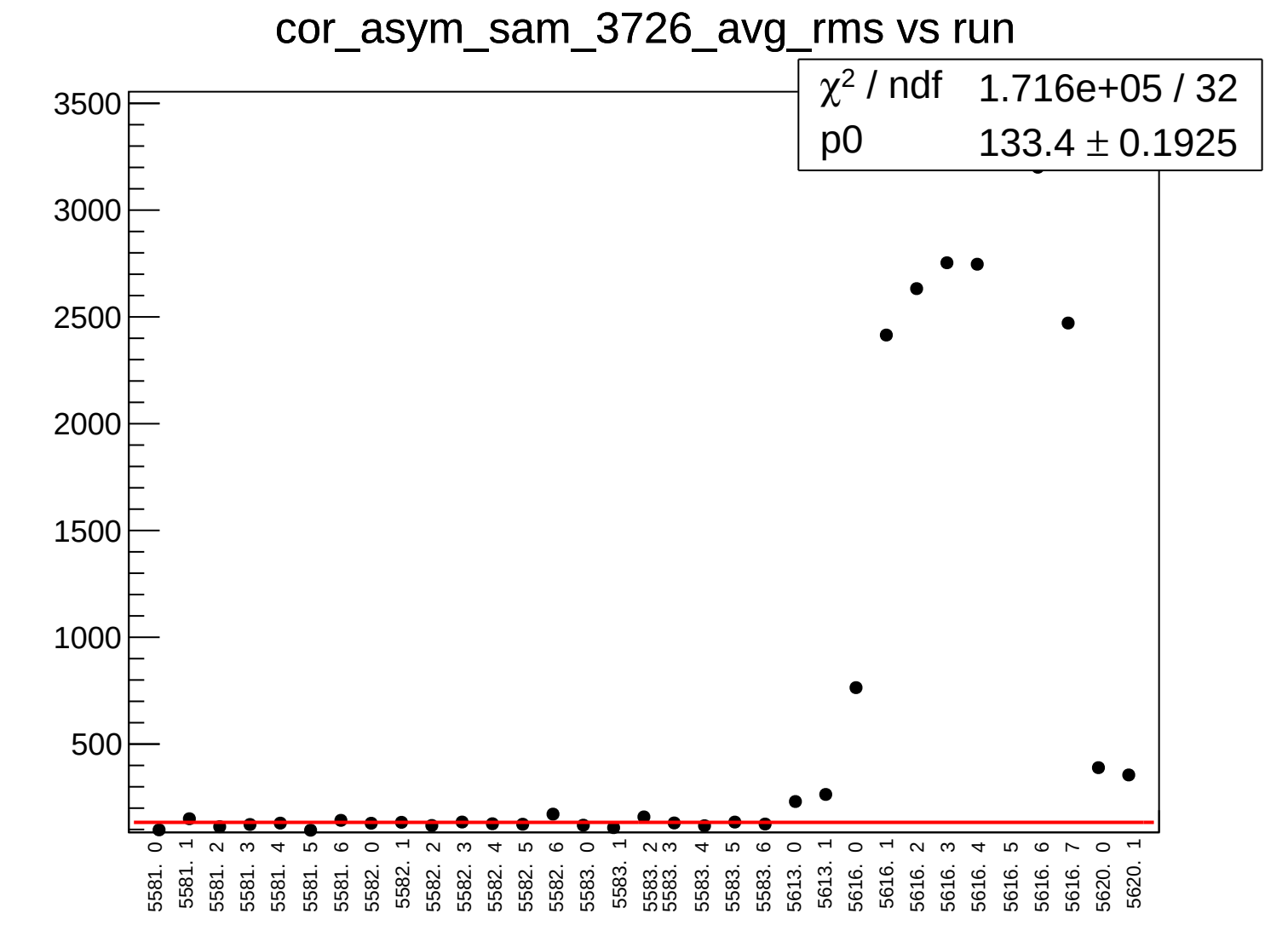

pull1D
Entries 33
Mean −0.01262
Std Dev 0.9311
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

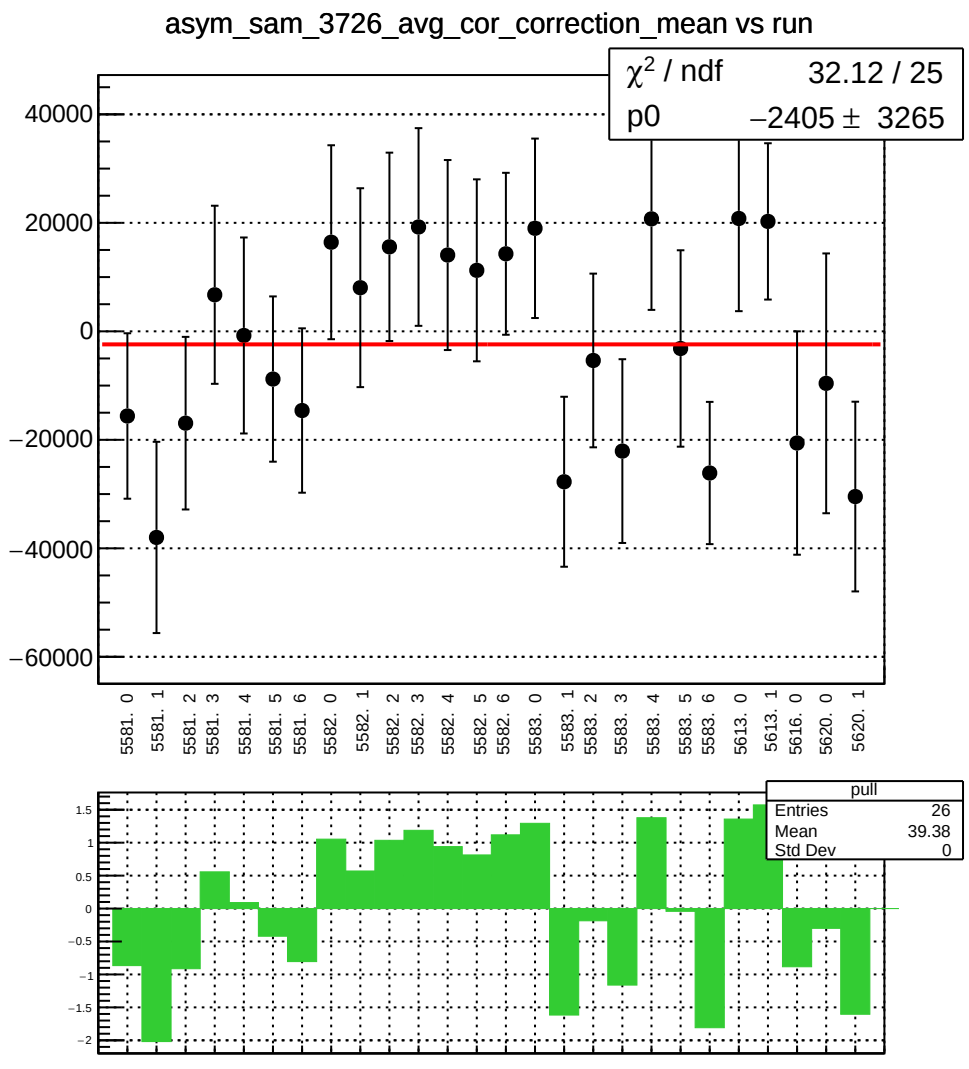

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.543e+05 / 32
p0 135.4 ± 0.1919
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

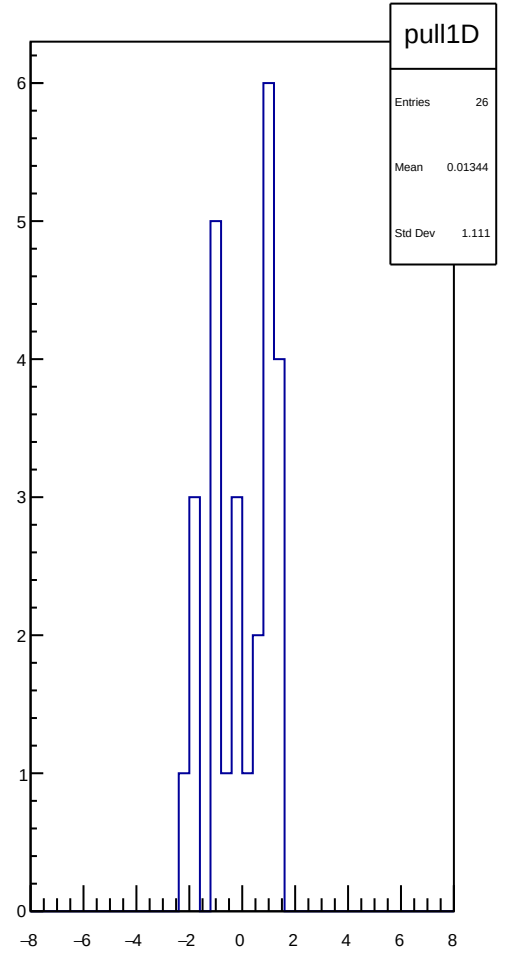

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 35.18 / 32
p0 −3379 ± 3074
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 107.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01215
Std Dev 1.032
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

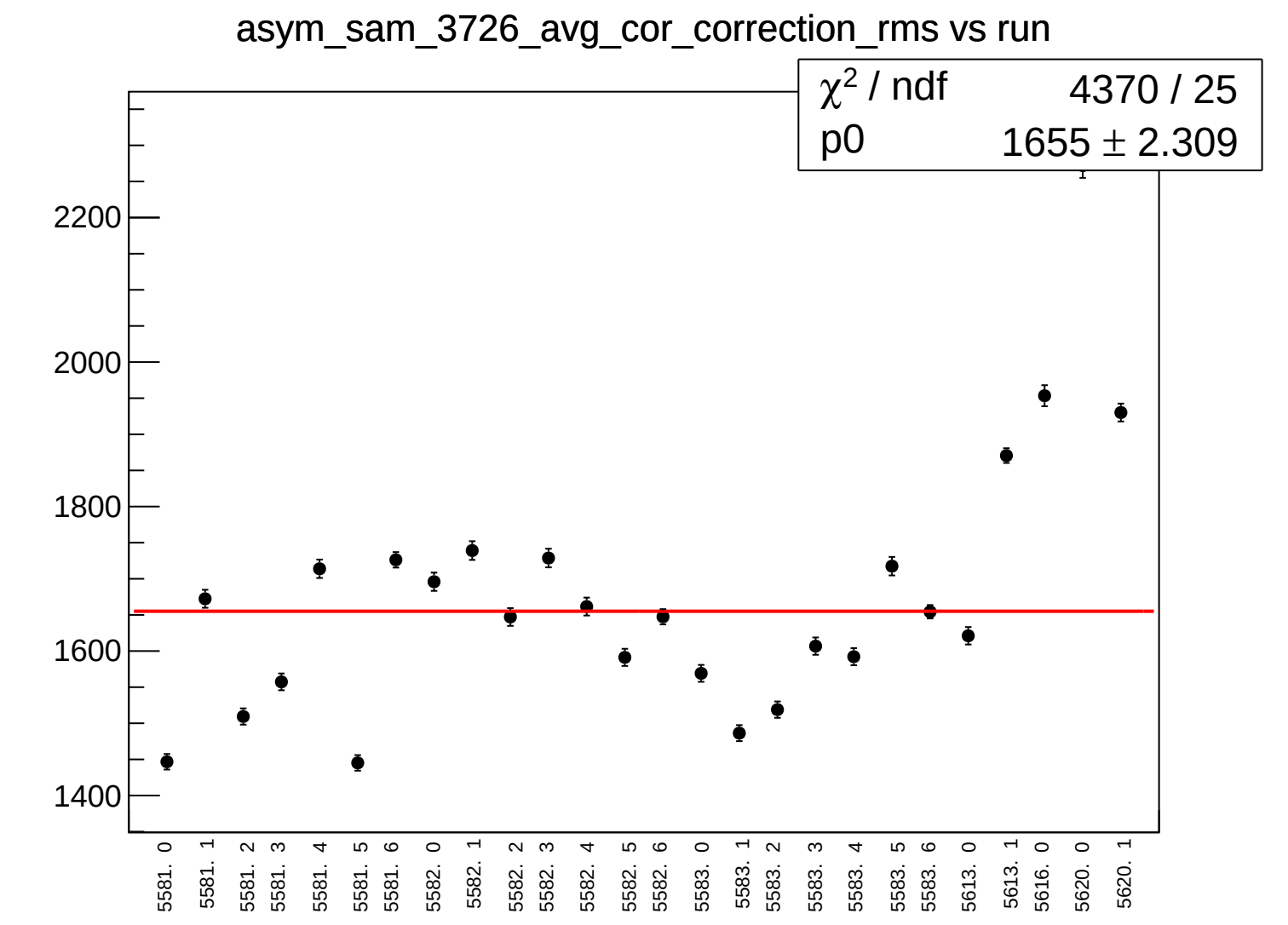

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.607e+04 / 32
p0 1733 ± 2.174
2800
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

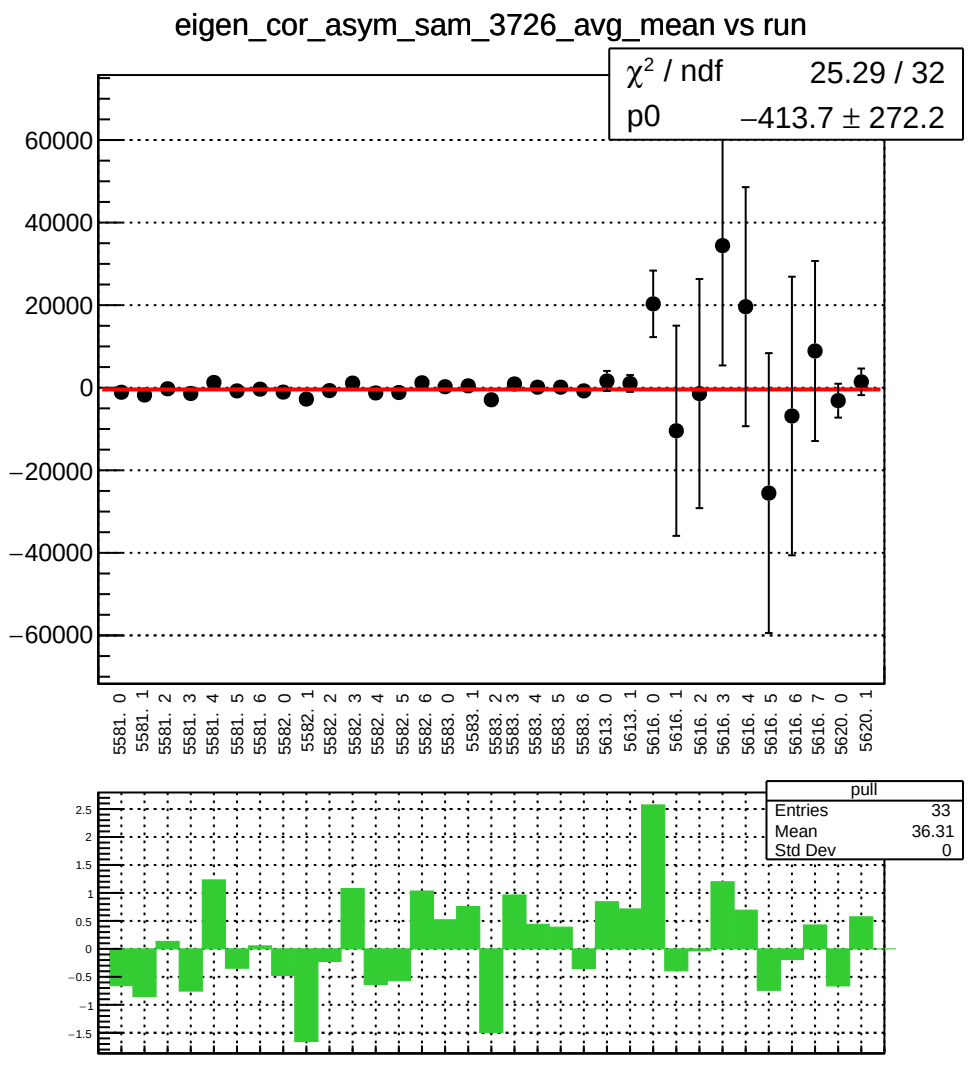

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 25.29 / 32
p0 −413.7 ± 272.2
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.31
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1086
Std Dev 0.8686
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

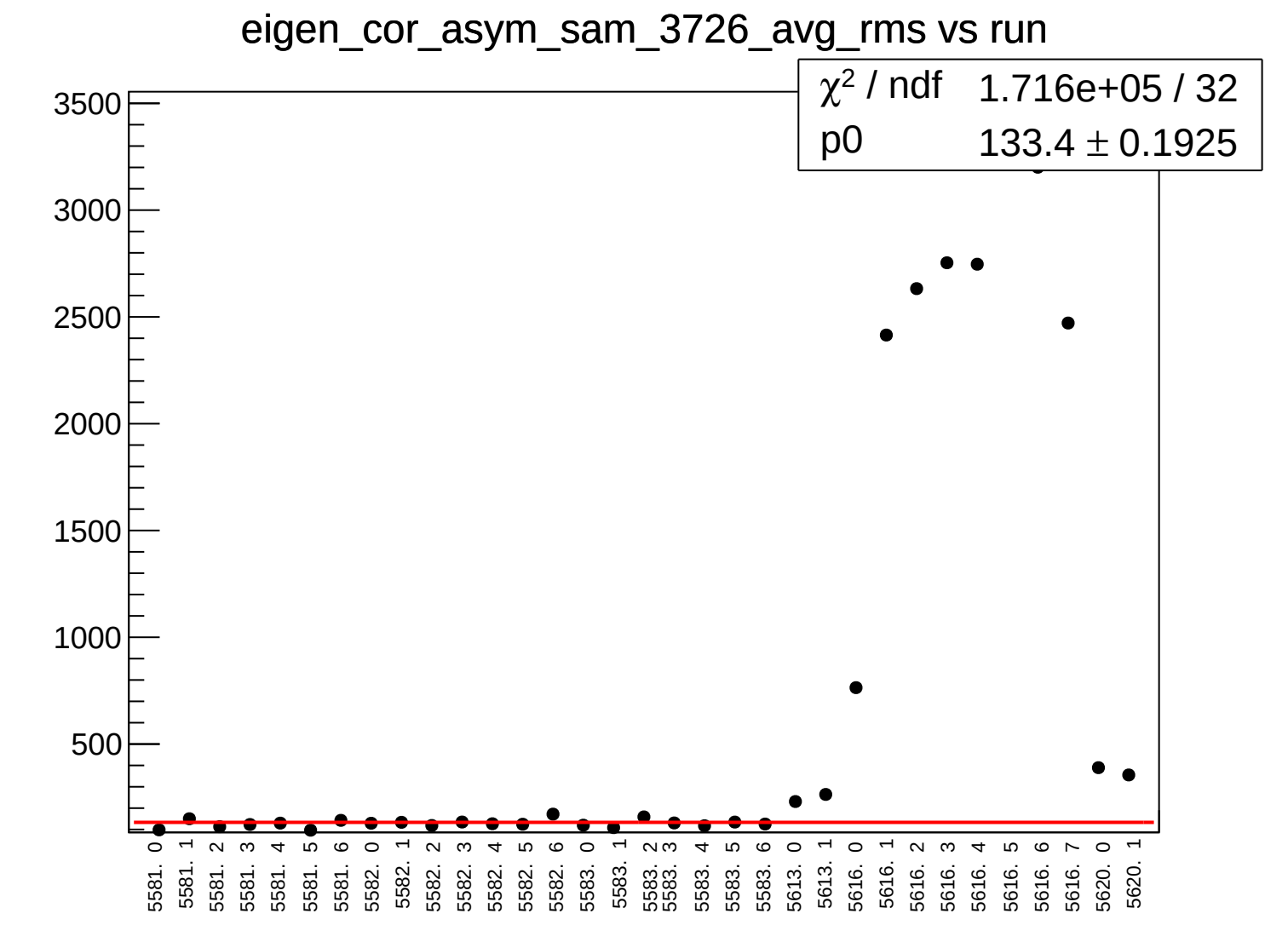

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.716e+05 / 32
p0 133.4 ± 0.1925
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

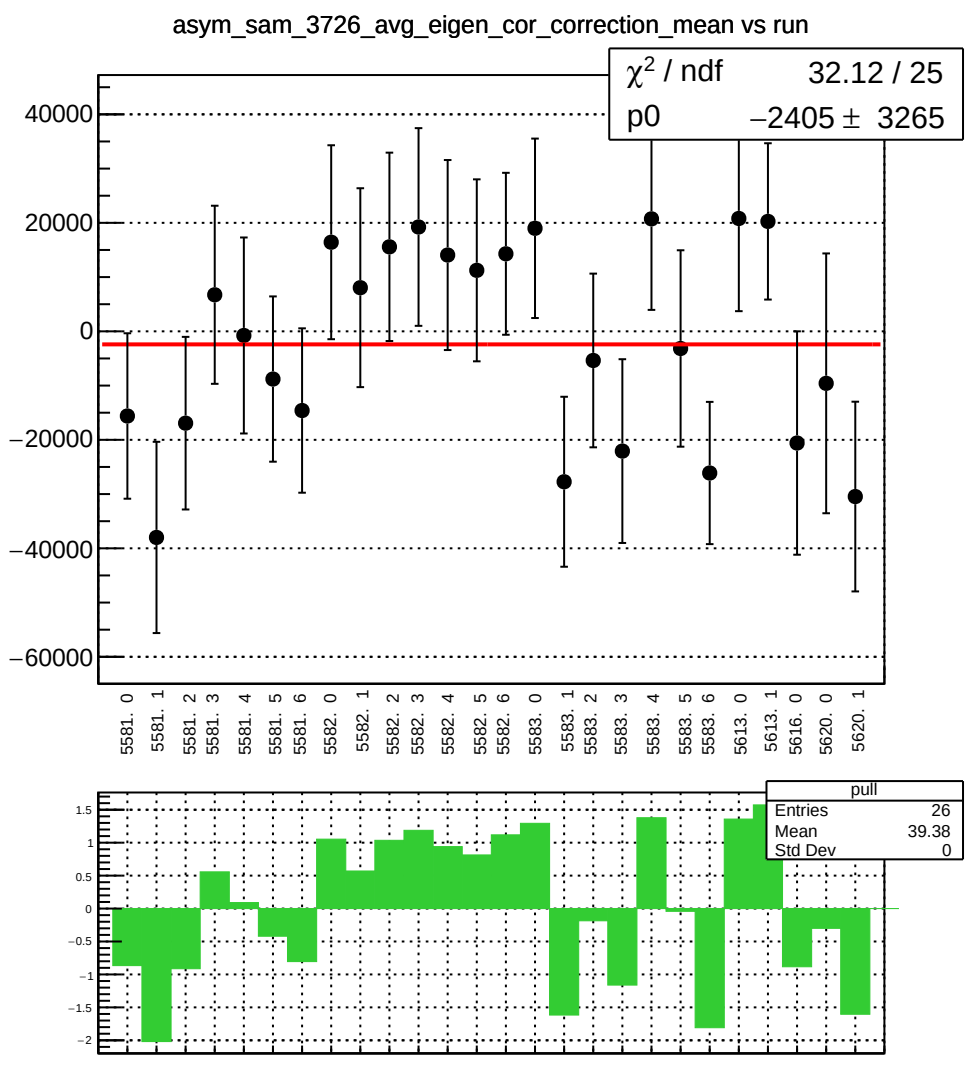

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 32.12 / 25
p0 −2405 ± 3265
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 39.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

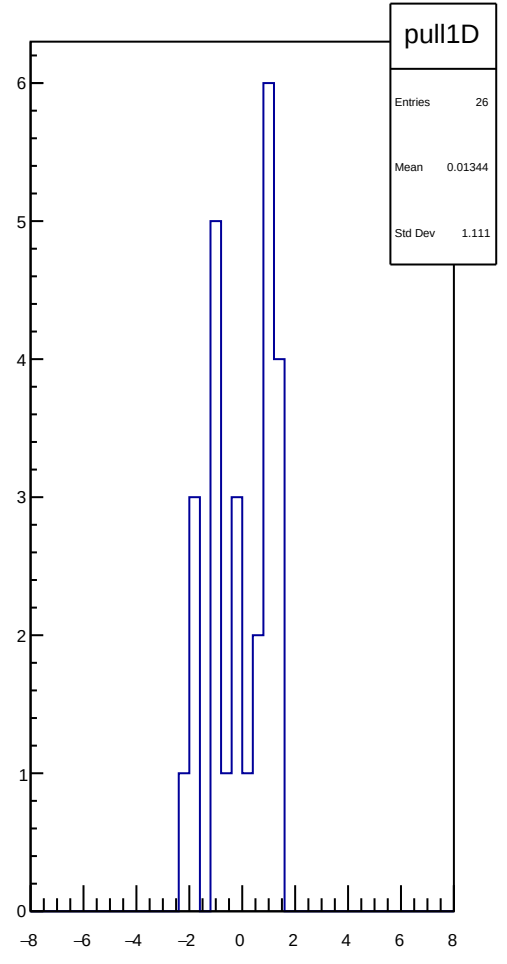

pull1D
Entries 26
Mean 0.01344
Std Dev 1.111
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

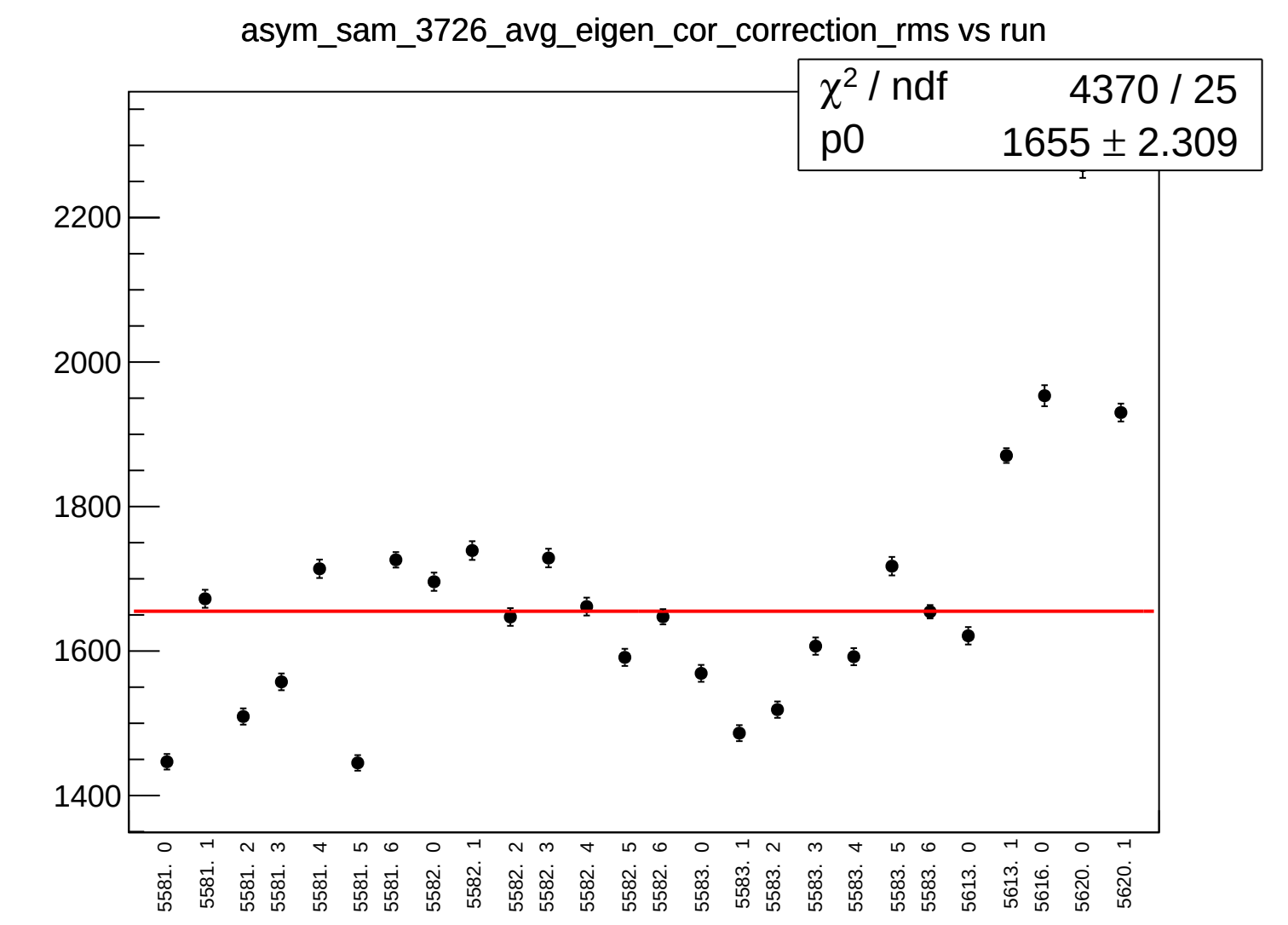

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 4370 / 25
p0 1655 ± 2.309
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

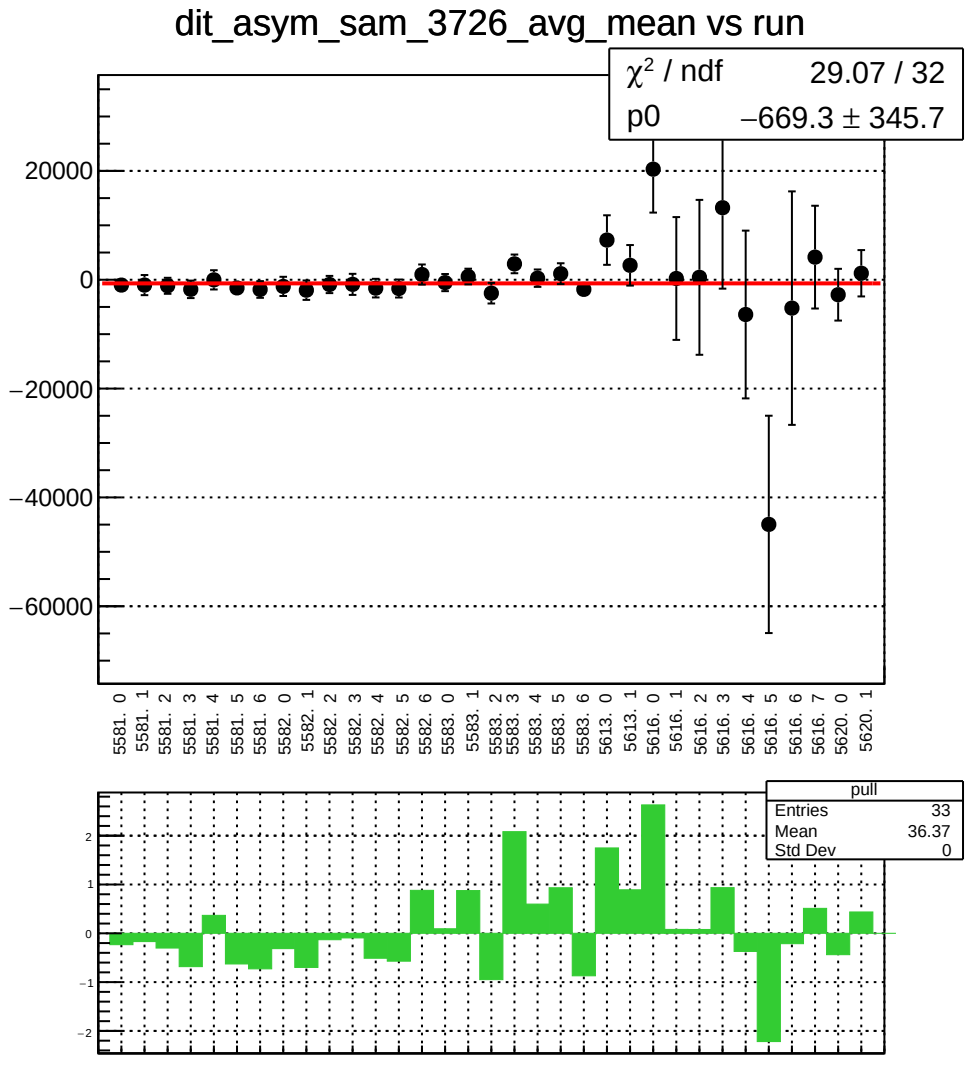

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 25.29 / 32
p0 −413.7 ± 272.2
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.31
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1086
Std Dev 0.8686
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

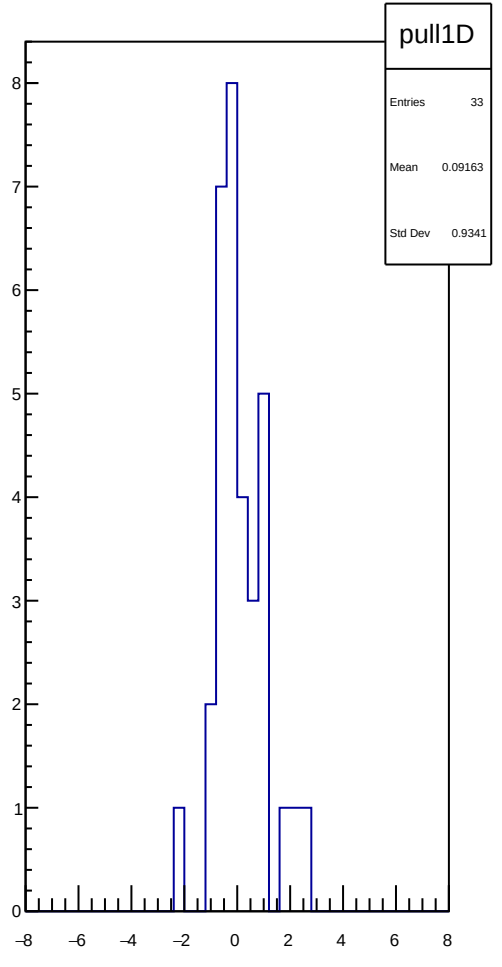

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.716e+05 / 32
p0 133.4 ± 0.1925
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

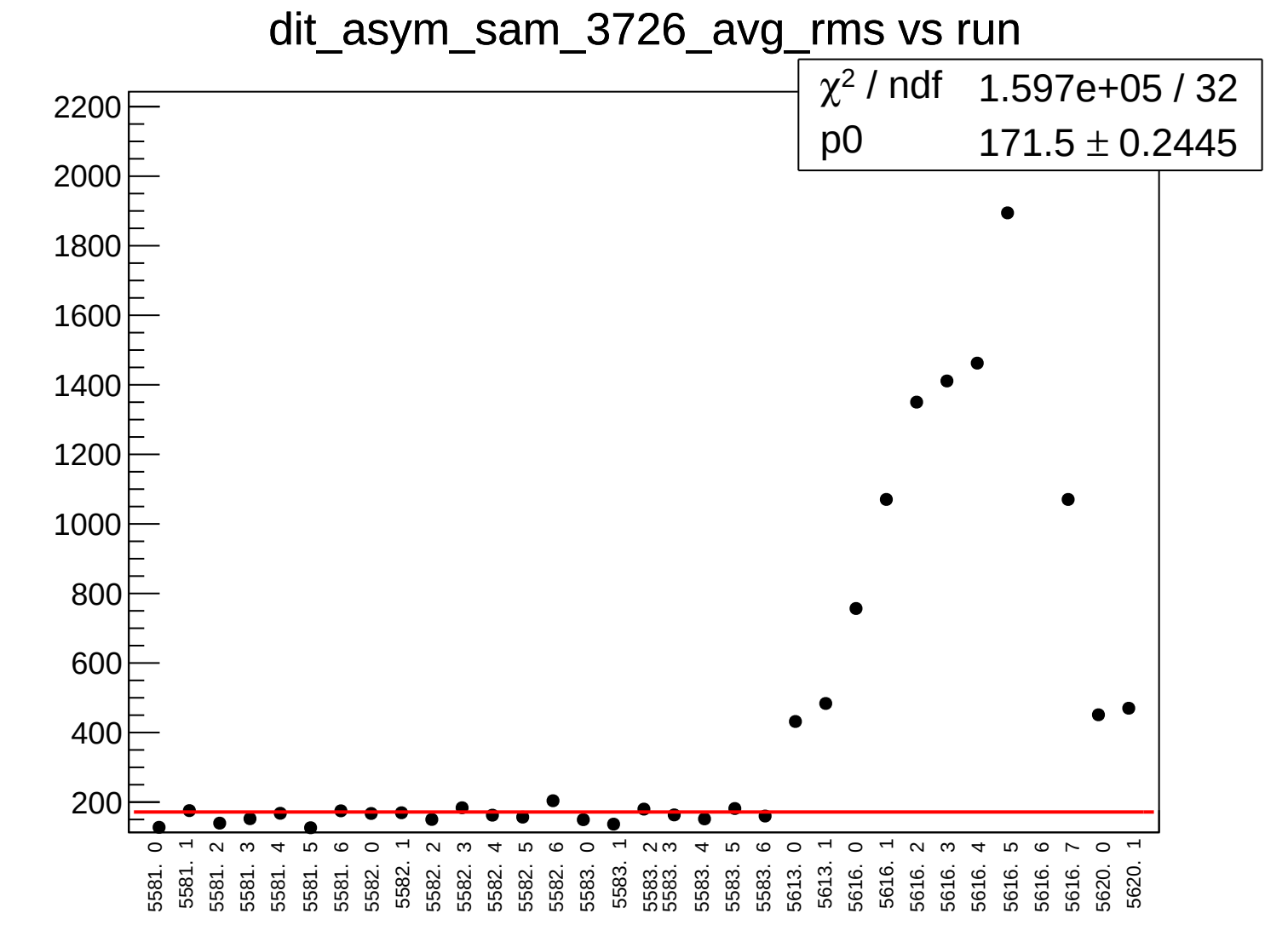

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 32.12 / 25
p0 −2405 ± 3265
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 39.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

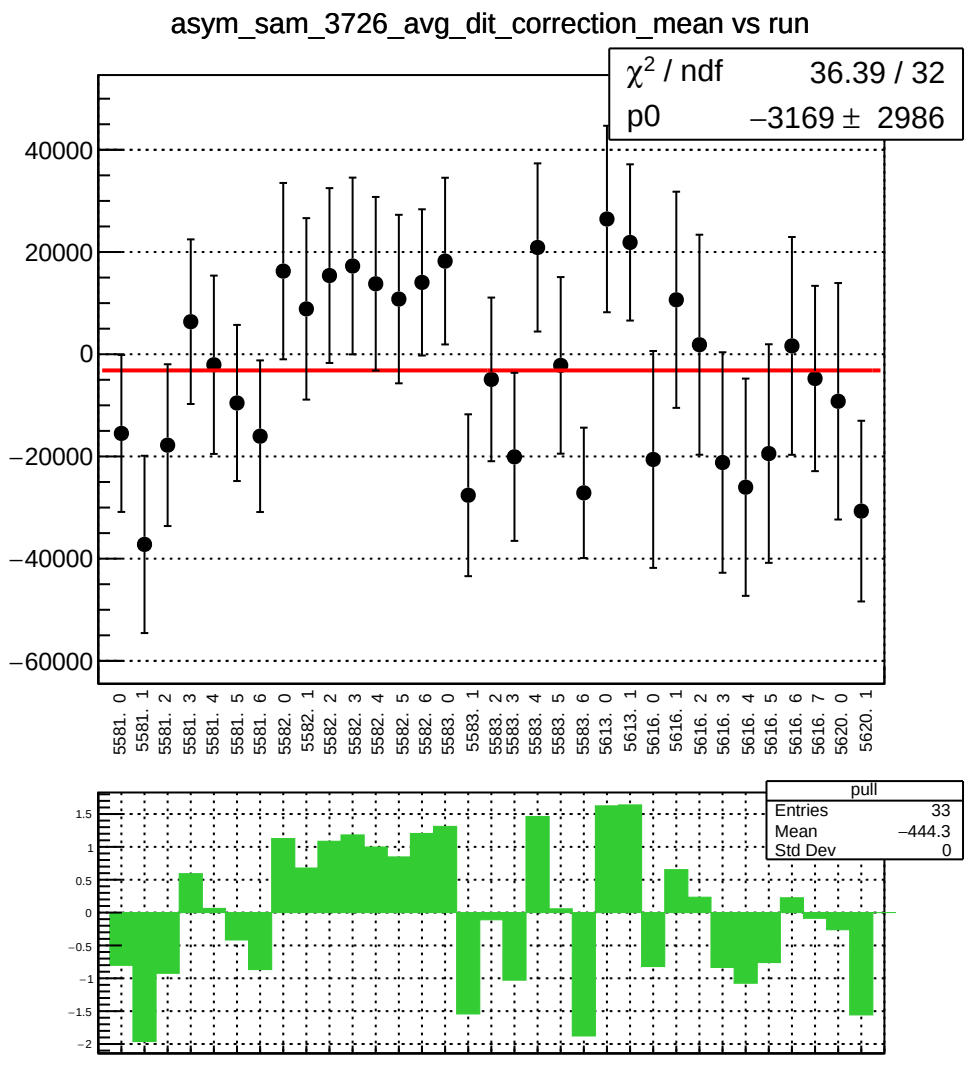

pull1D
Entries 26
Mean 0.01344
Std Dev 1.111
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

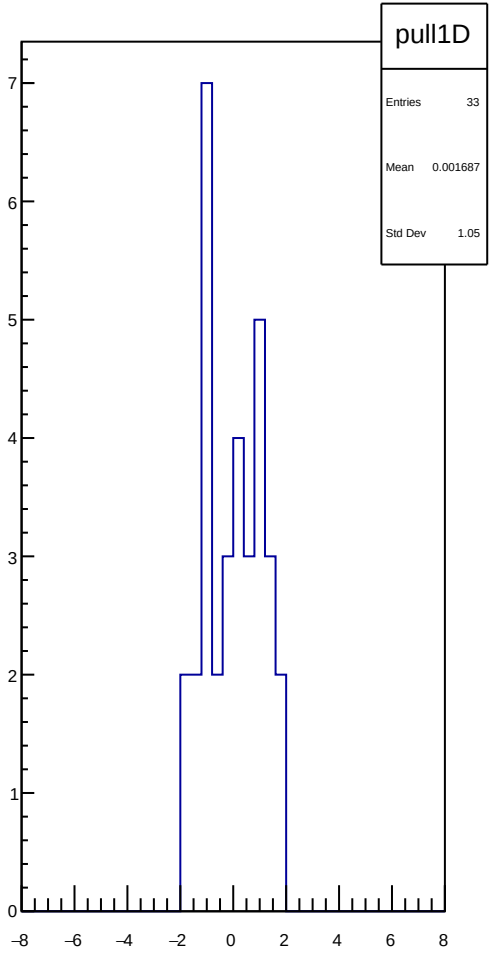

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 4370 / 25
p0 1655 ± 2.309
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

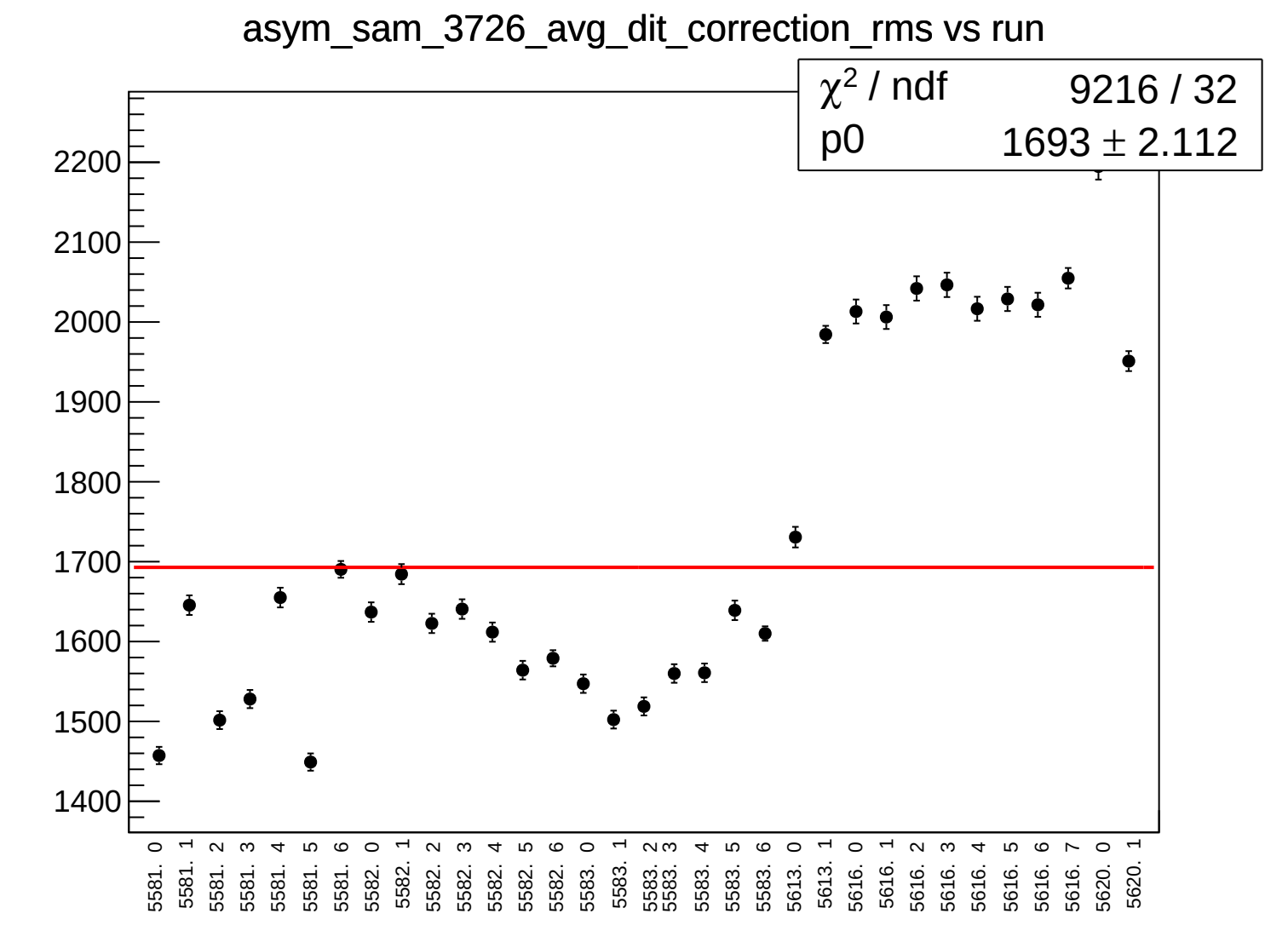

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 29.07 / 32
p0 −669.3 ± 345.7
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.37
Std Dev 0
2
1
0
−1
−2

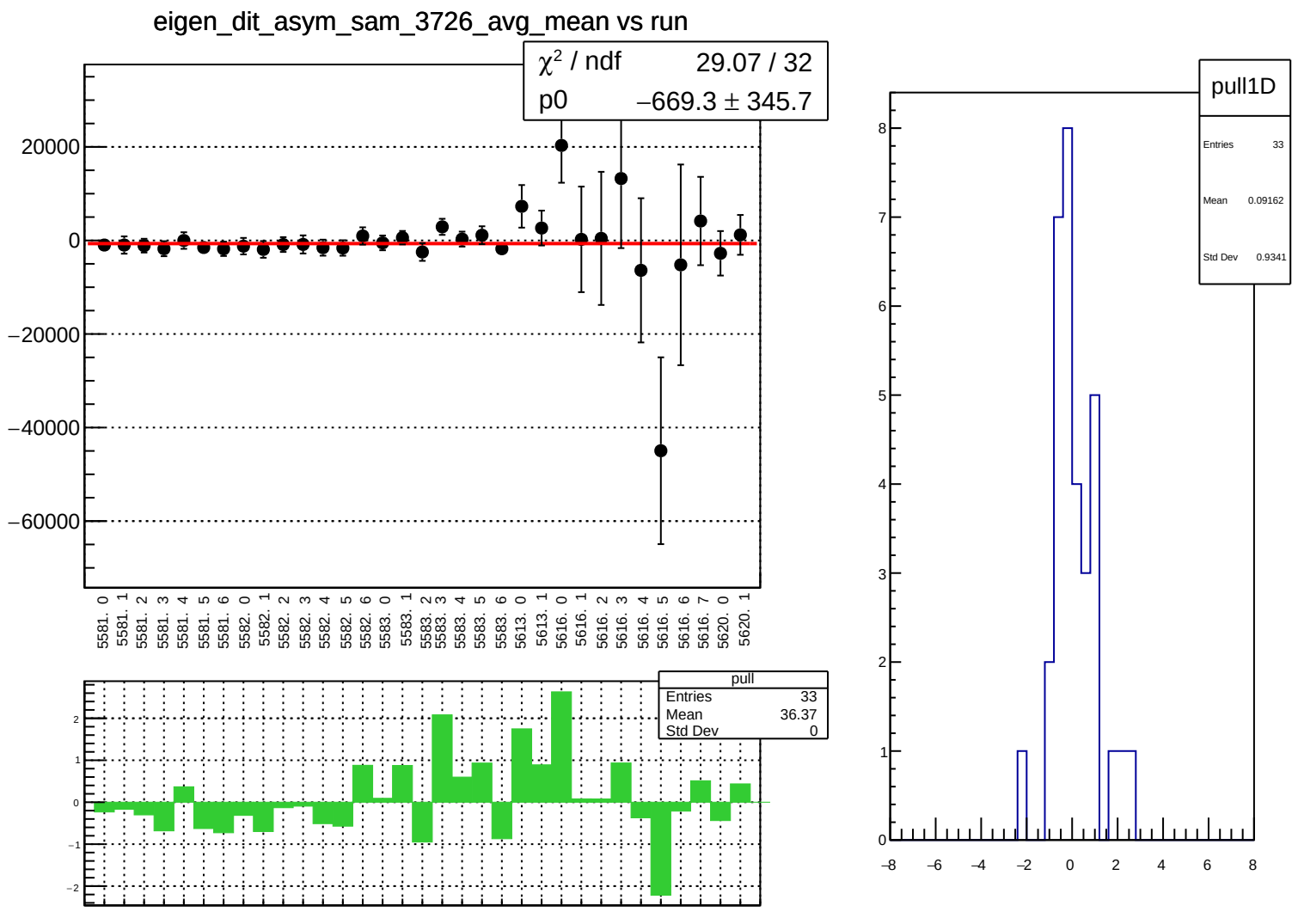

pull1D
Entries 33
Mean 0.09163
Std Dev 0.9341
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

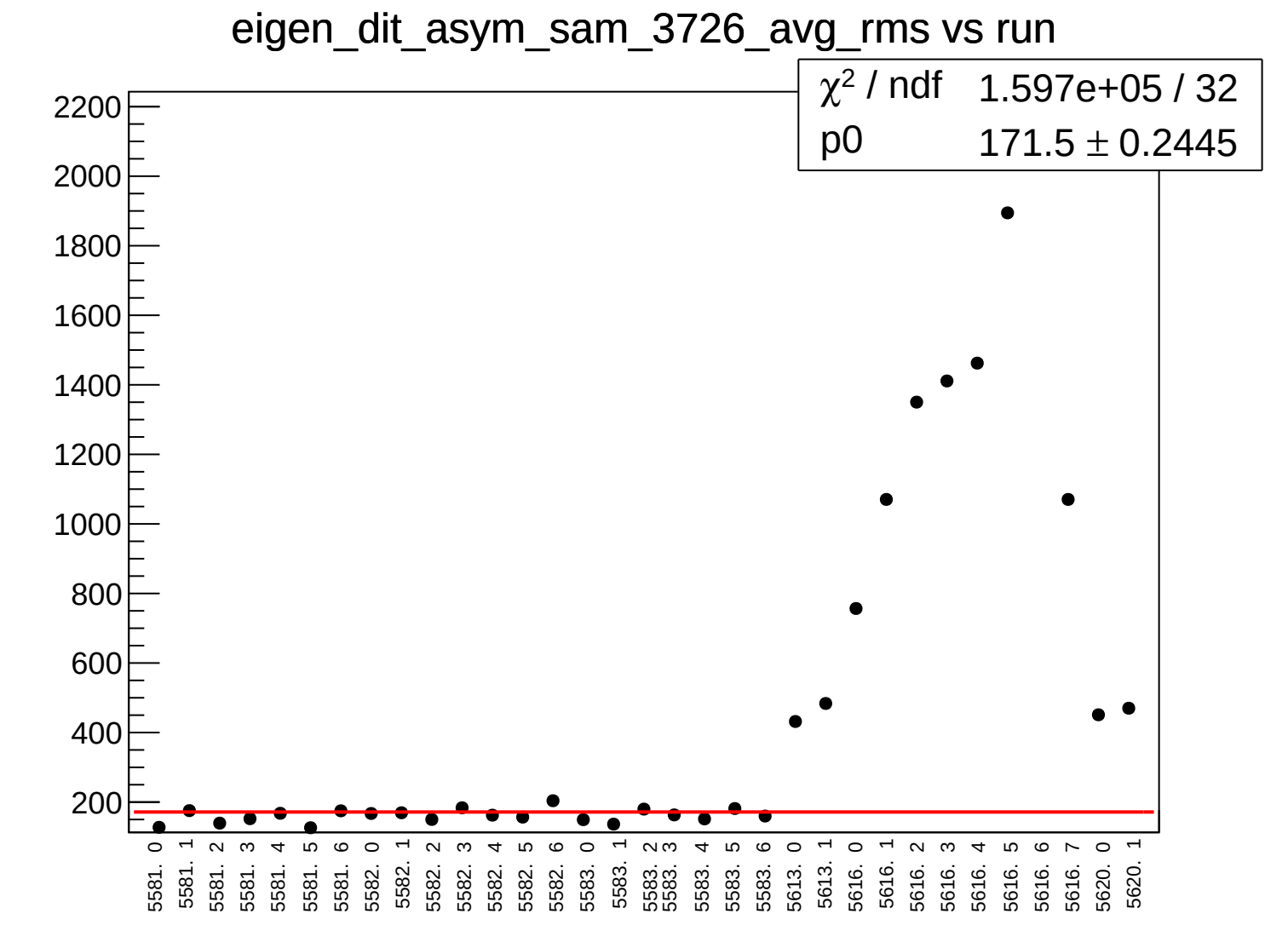

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.597e+05 / 32
p0 171.5 ± 0.2445
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1


asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 36.39 / 32
p0 −3169 ± 2986
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −444.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

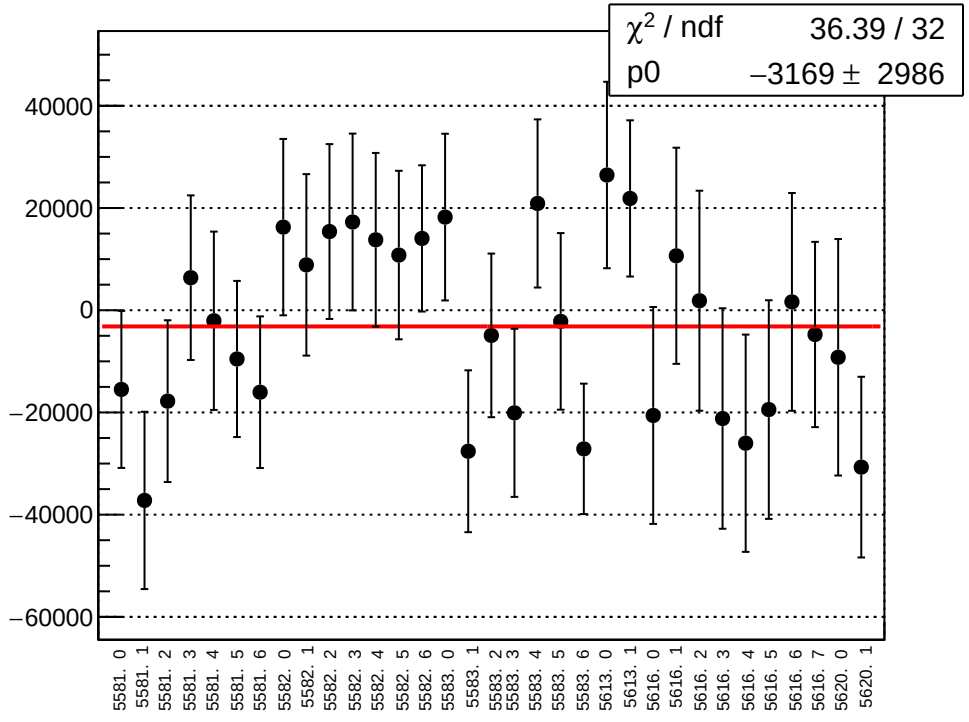

pull1D
Entries 33
Mean 0.001687
Std Dev 1.05
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

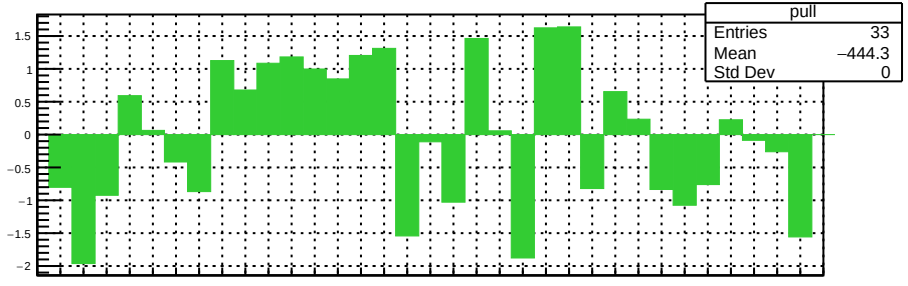

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 9216 / 32
p0 1693 ± 2.112
2200
2100
2000
1900
1800
1700
1600
1500
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

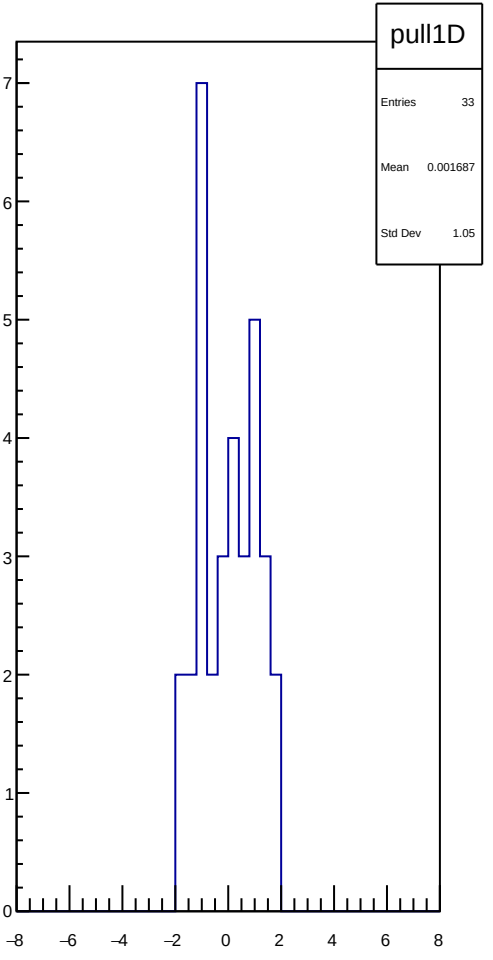

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 29.07 / 32
p0 −669.3 ± 345.7
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.09162
Std Dev 0.9341
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

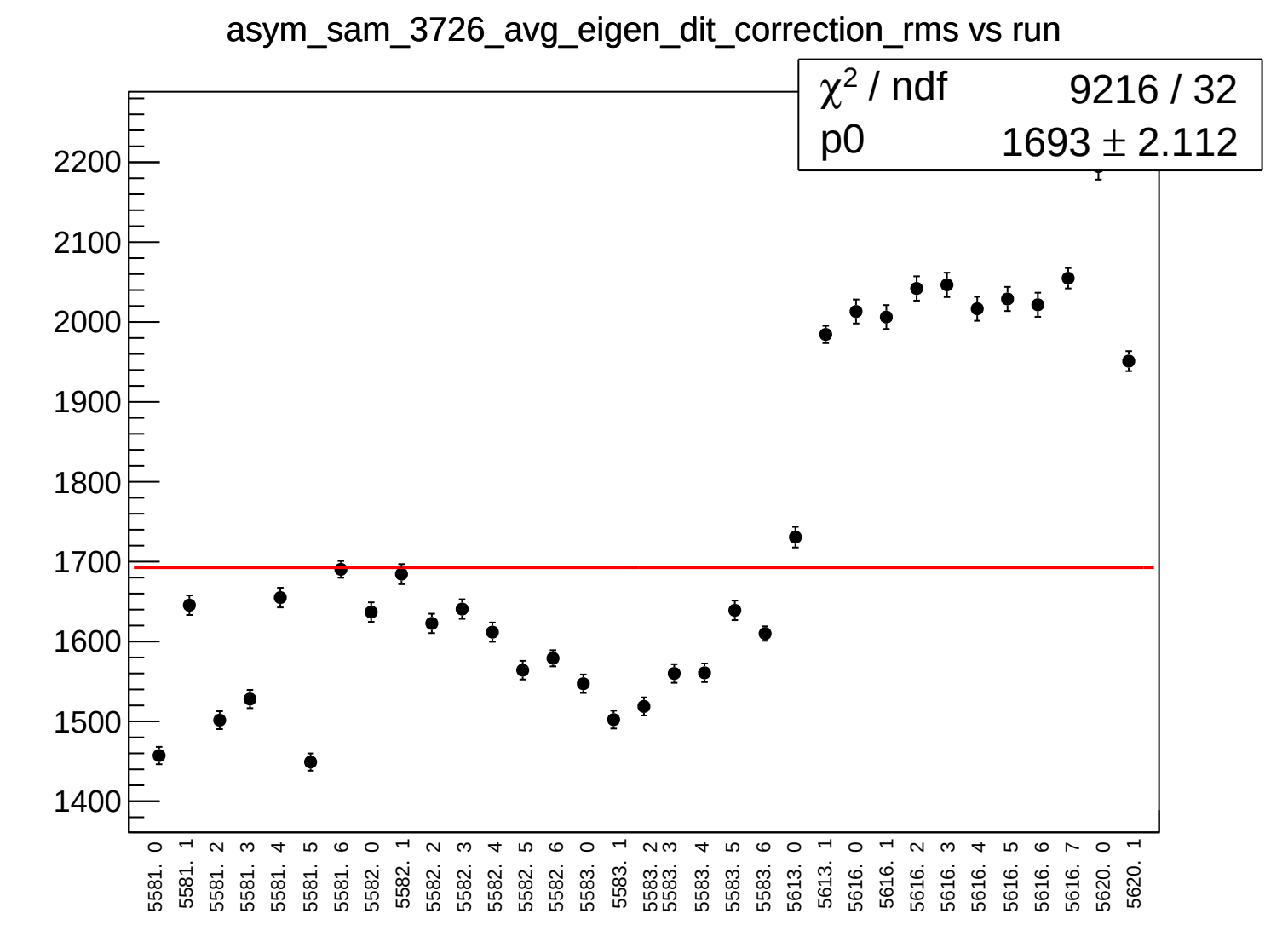

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.597e+05 / 32
p0 171.5 ± 0.2445
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

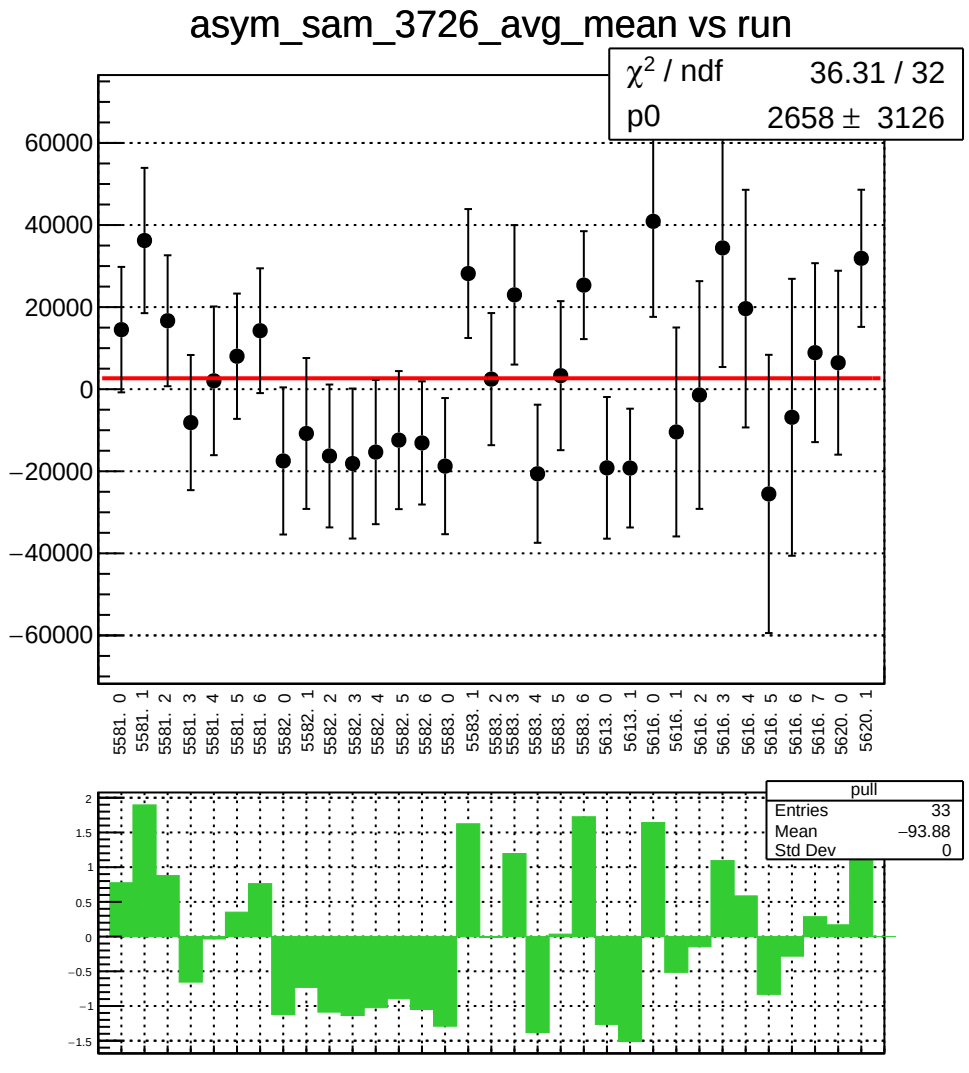
asym_sam_3726_avg_eigen_dit_correction_mean vs run

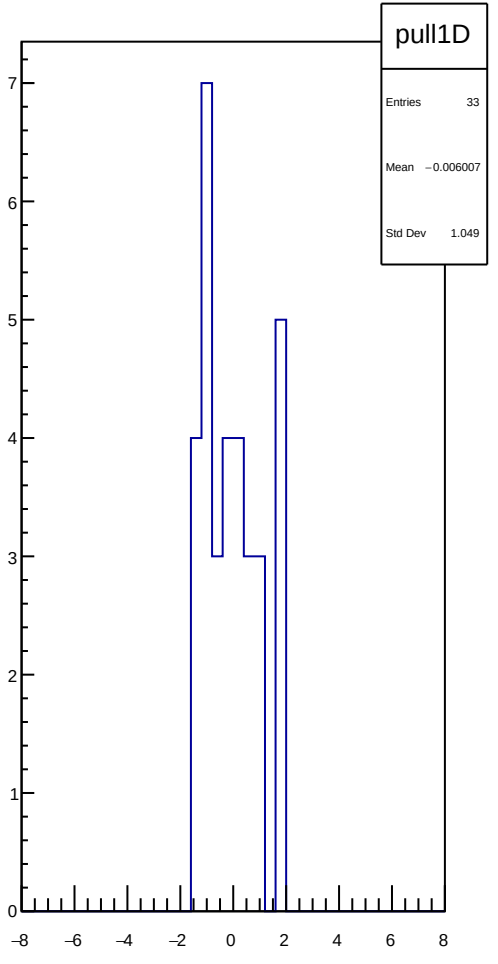


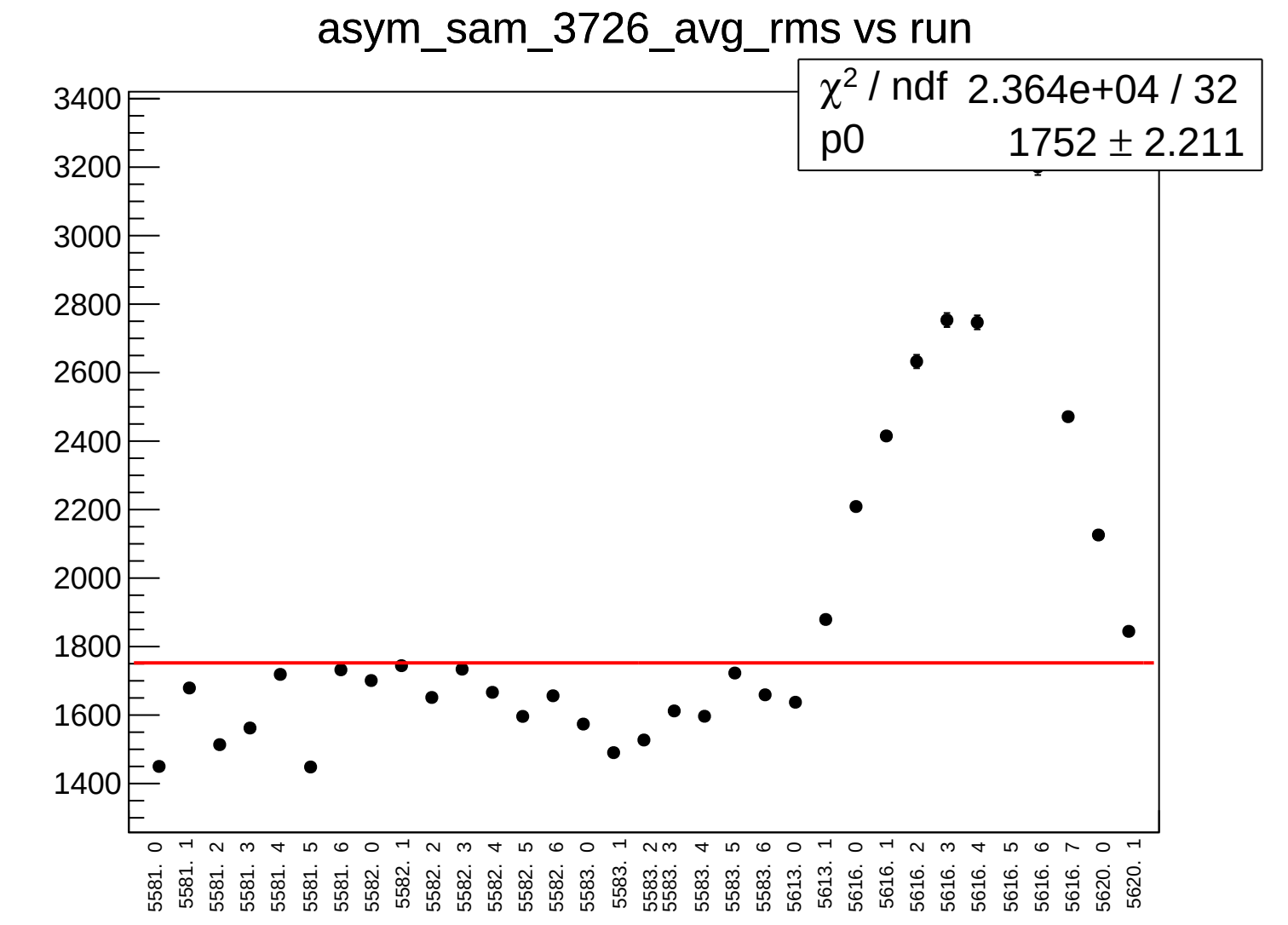


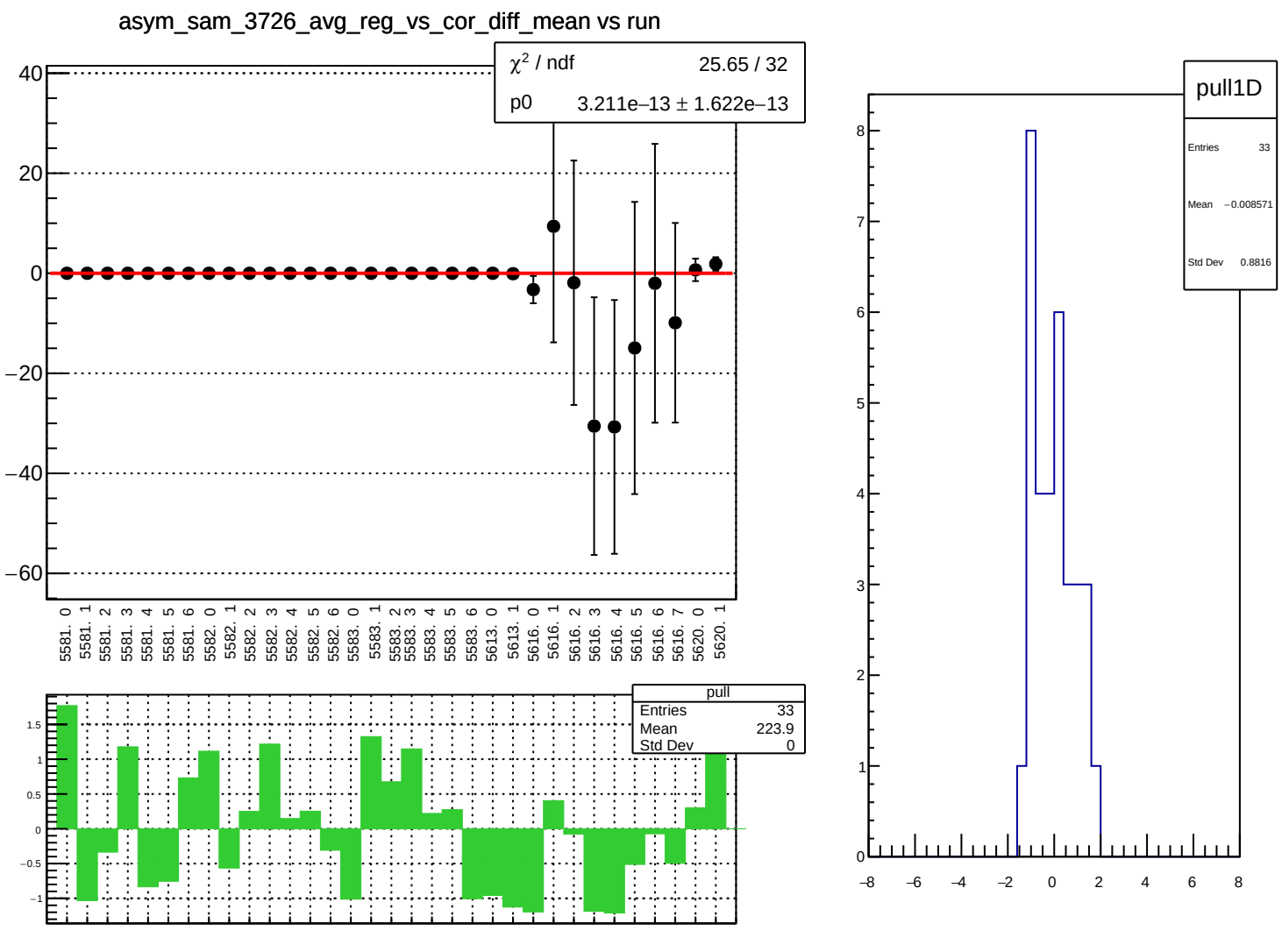


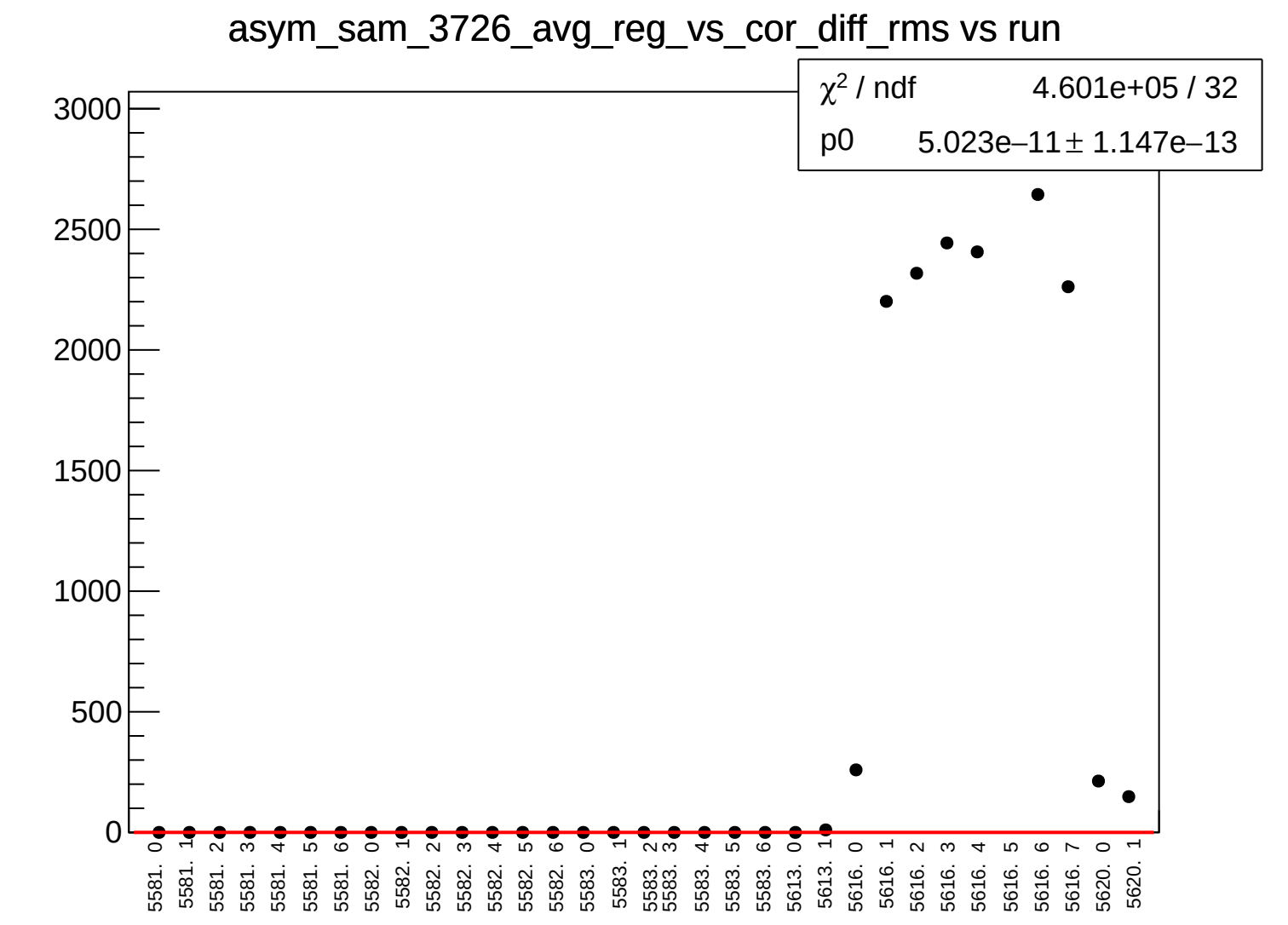

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 9216 / 32
p0 1693 ± 2.112
2200
2100
2000
1900
1800
1700
1600
1500
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

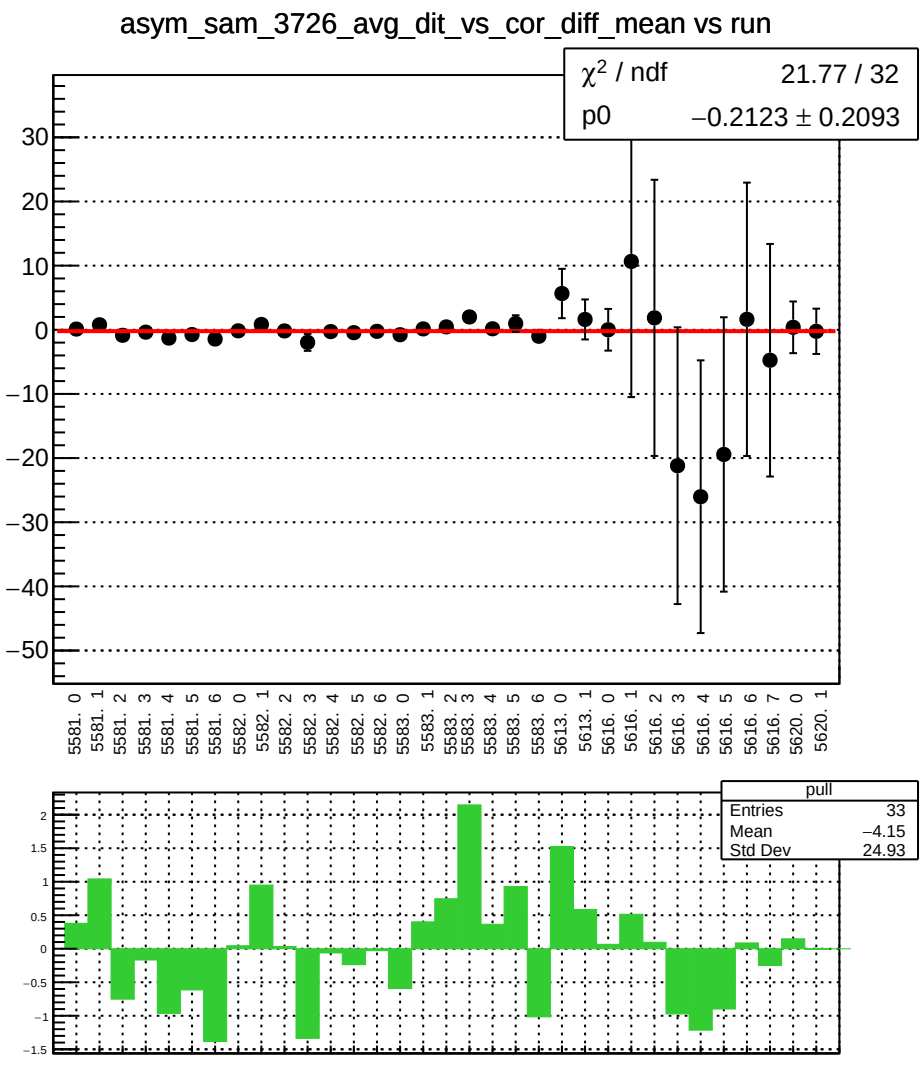

asym_sam_3726_avg_mean vs run
χ² / ndf 36.31 / 32
p0 2658 ± 3126
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −93.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

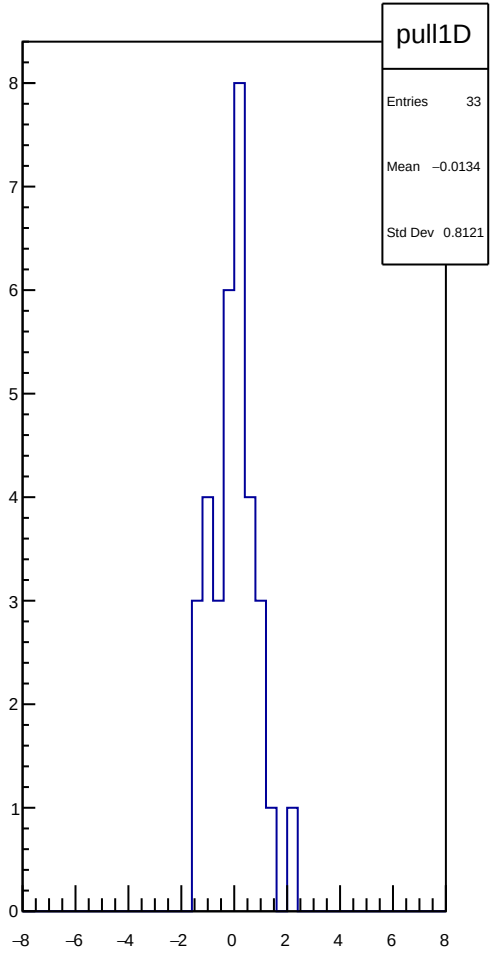

pull1D
Entries 33
Mean −0.006007
Std Dev 1.049
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

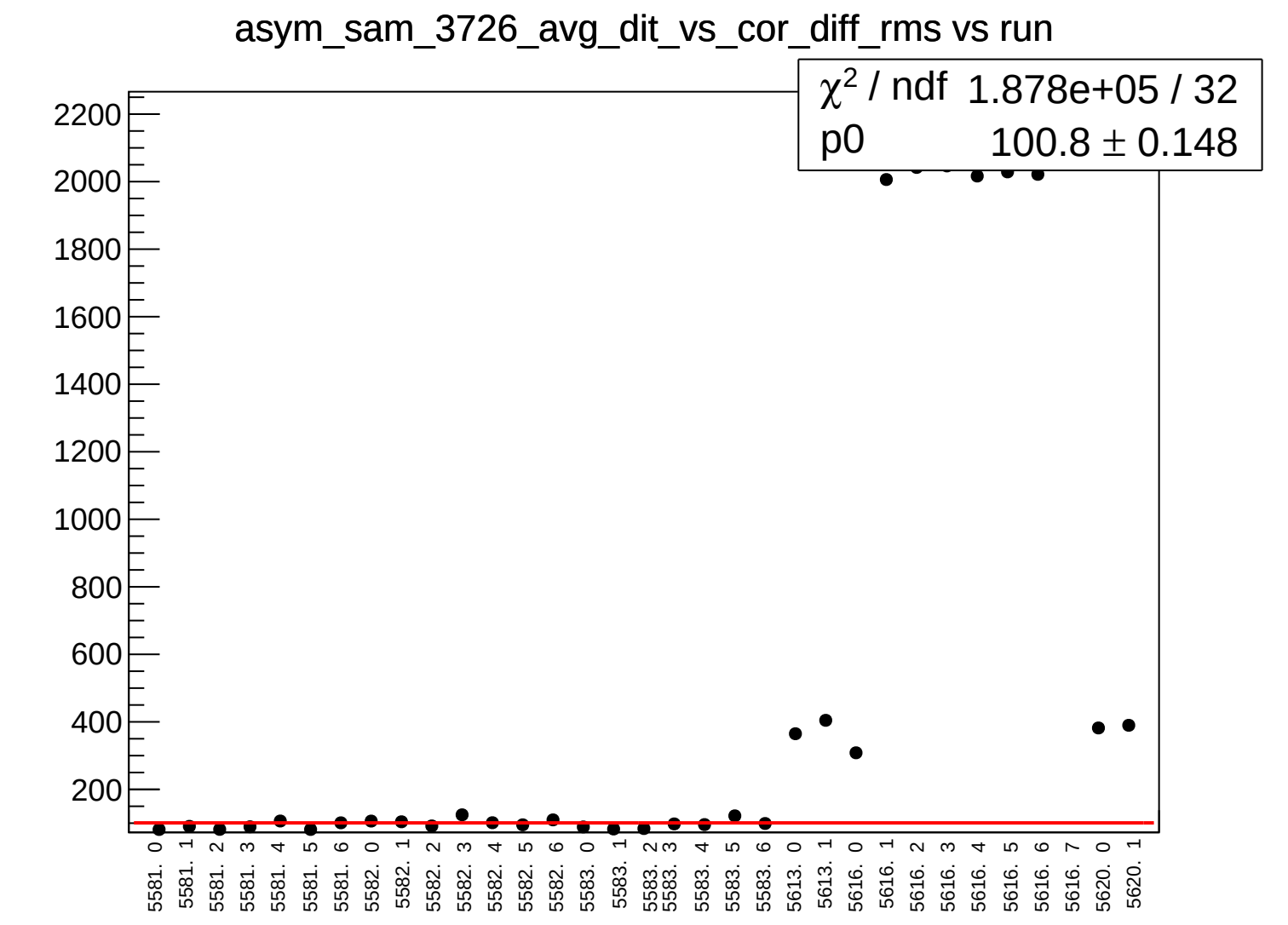

asym_sam_3726_avg_rms vs run
χ² / ndf 2.364e+04 / 32
p0 1752 ± 2.211
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

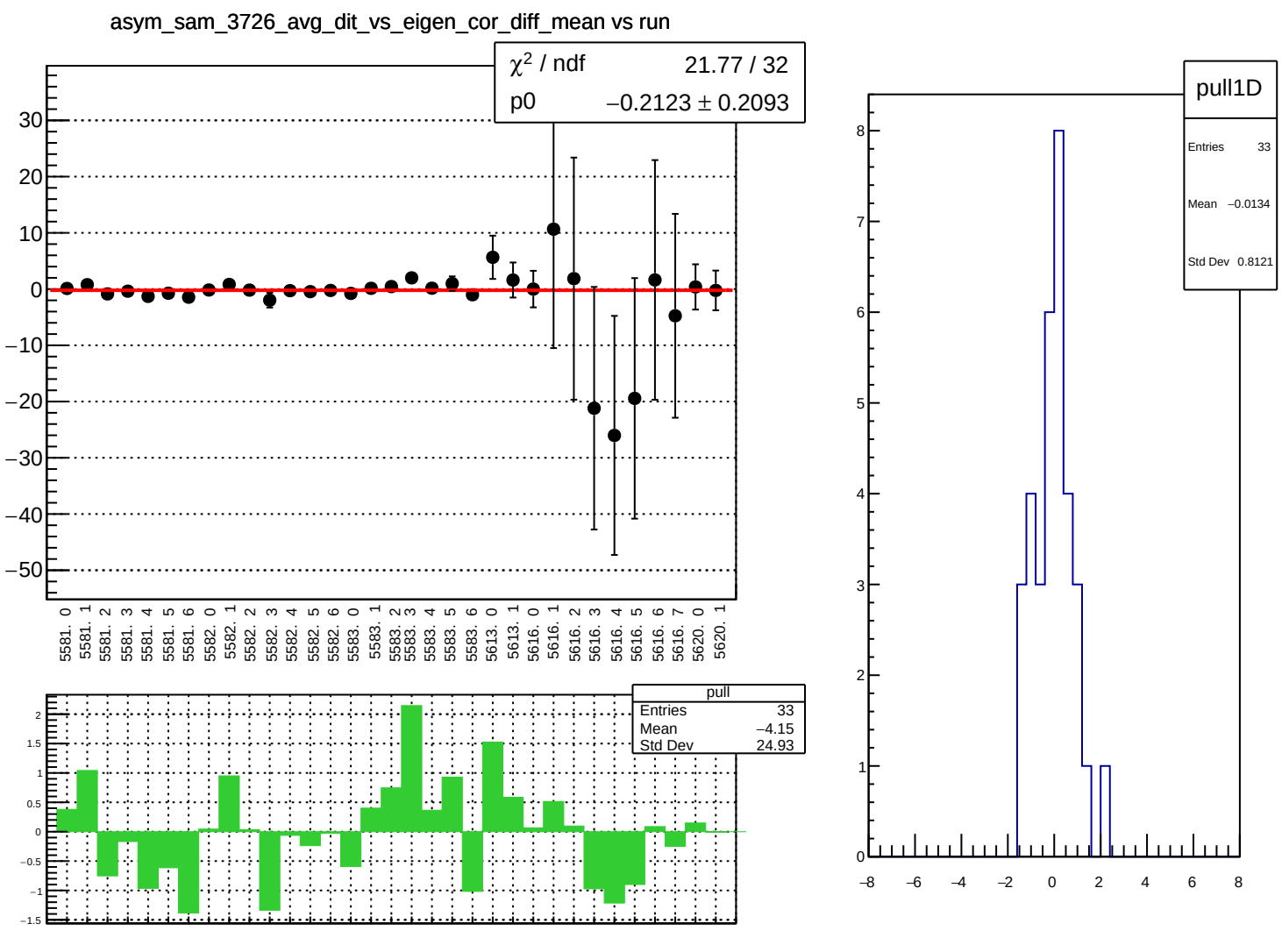

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 25.65 / 32
p0 3.211e−13 ± 1.622e−13
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 223.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.008571
Std Dev 0.8816
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

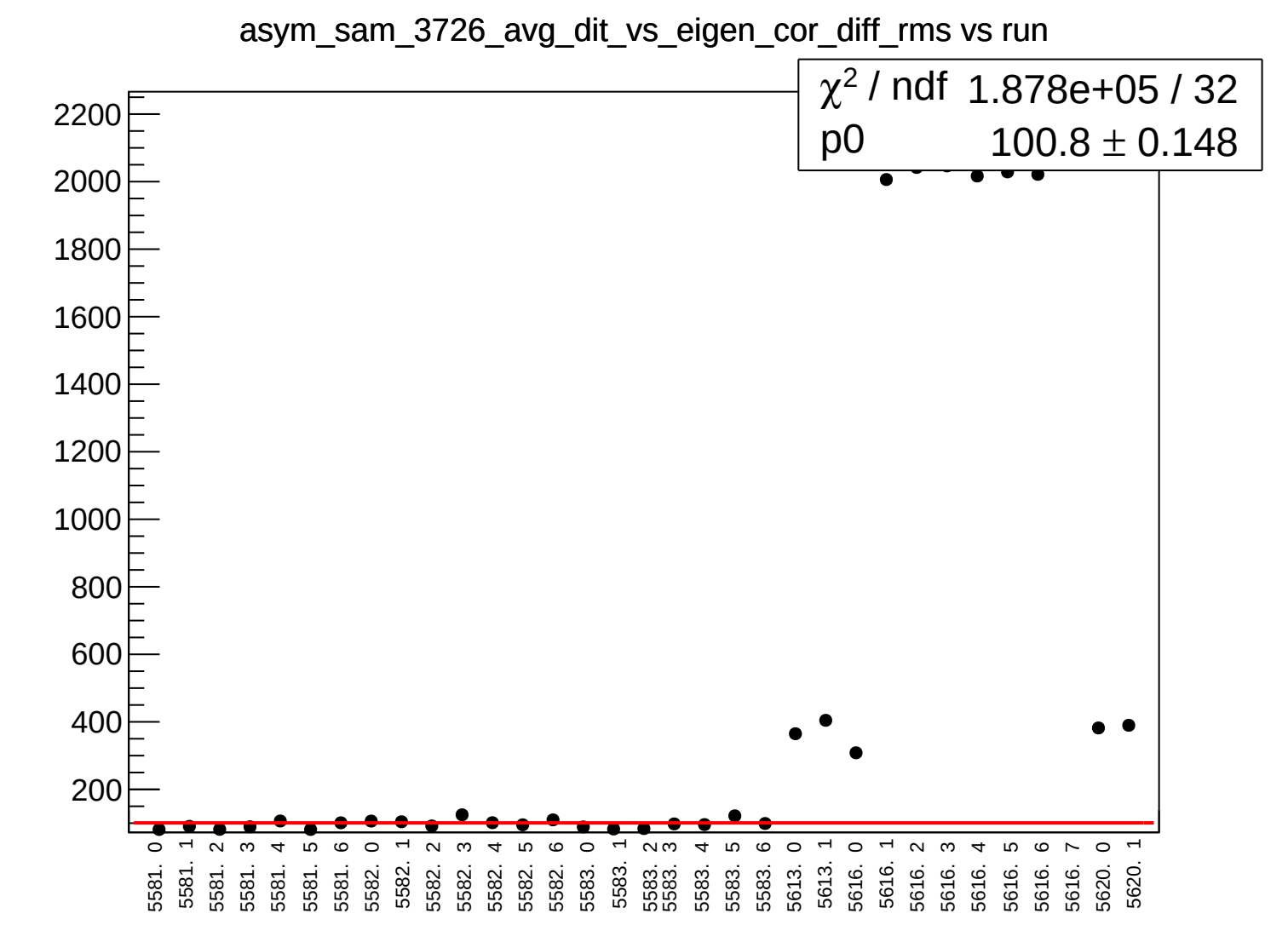

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.601e+05 / 32
p0 5.023e−11 ± 1.147e−13
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

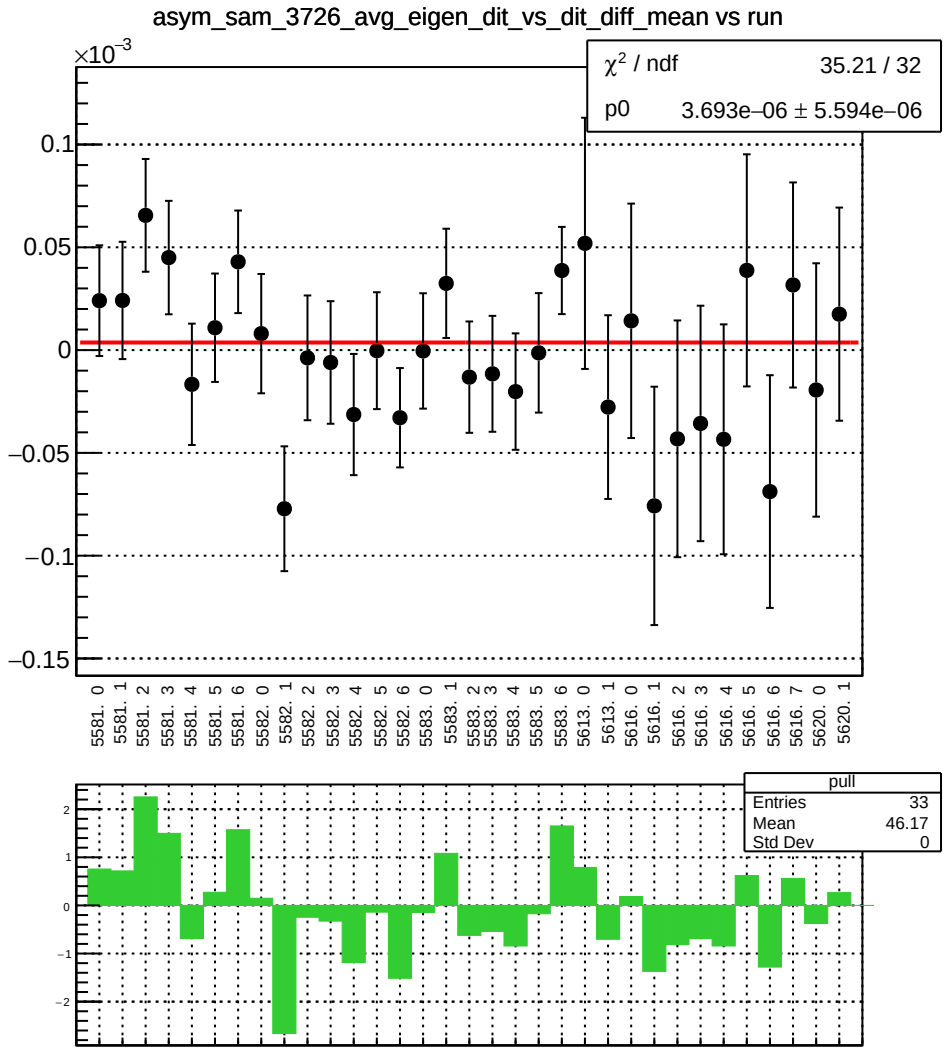

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 21.77 / 32
p0 −0.2123 ± 0.2093
30
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −4.15
Std Dev 24.93
2
1.5
1
0.5
0
−0.5
−1
−1.5

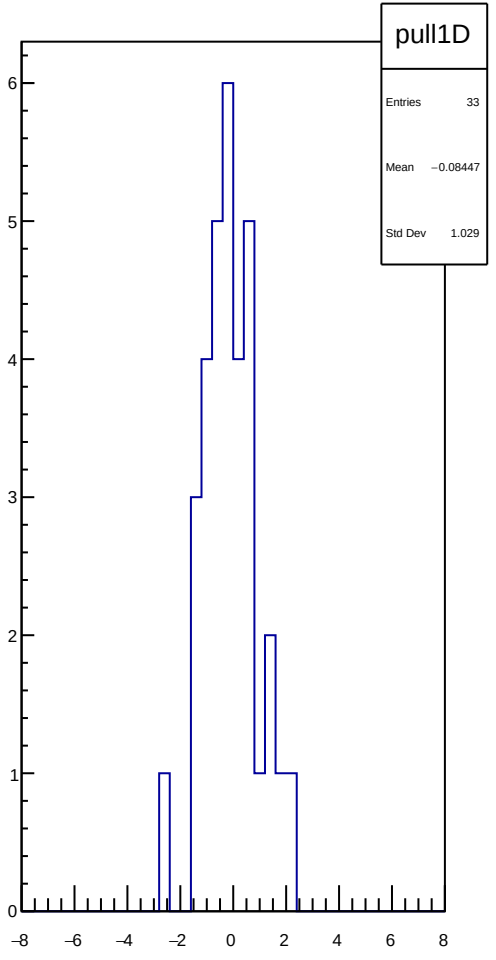

pull1D
Entries 33
Mean −0.0134
Std Dev 0.8121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

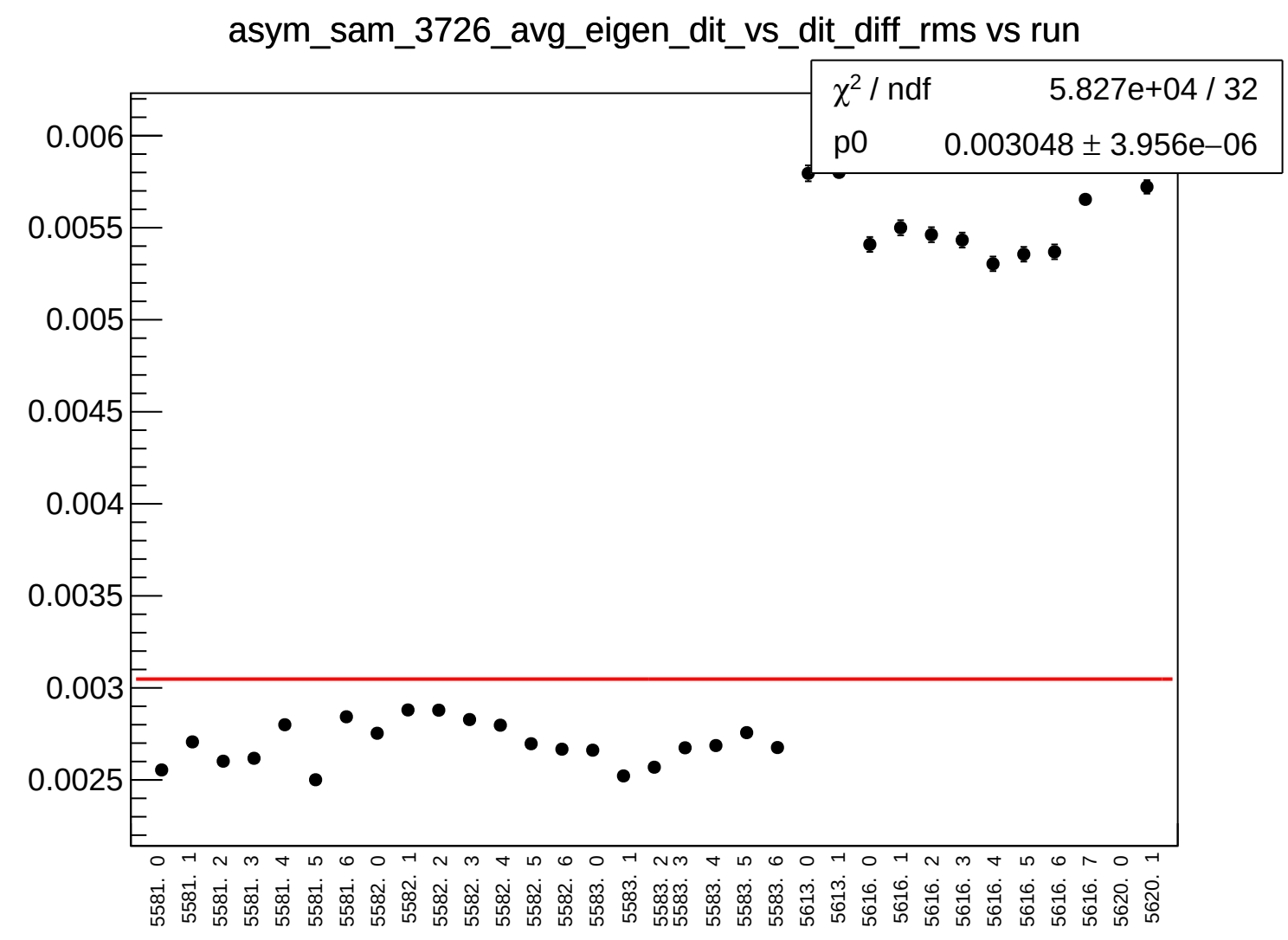

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.878e+05 / 32
p0 100.8 ± 0.148
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

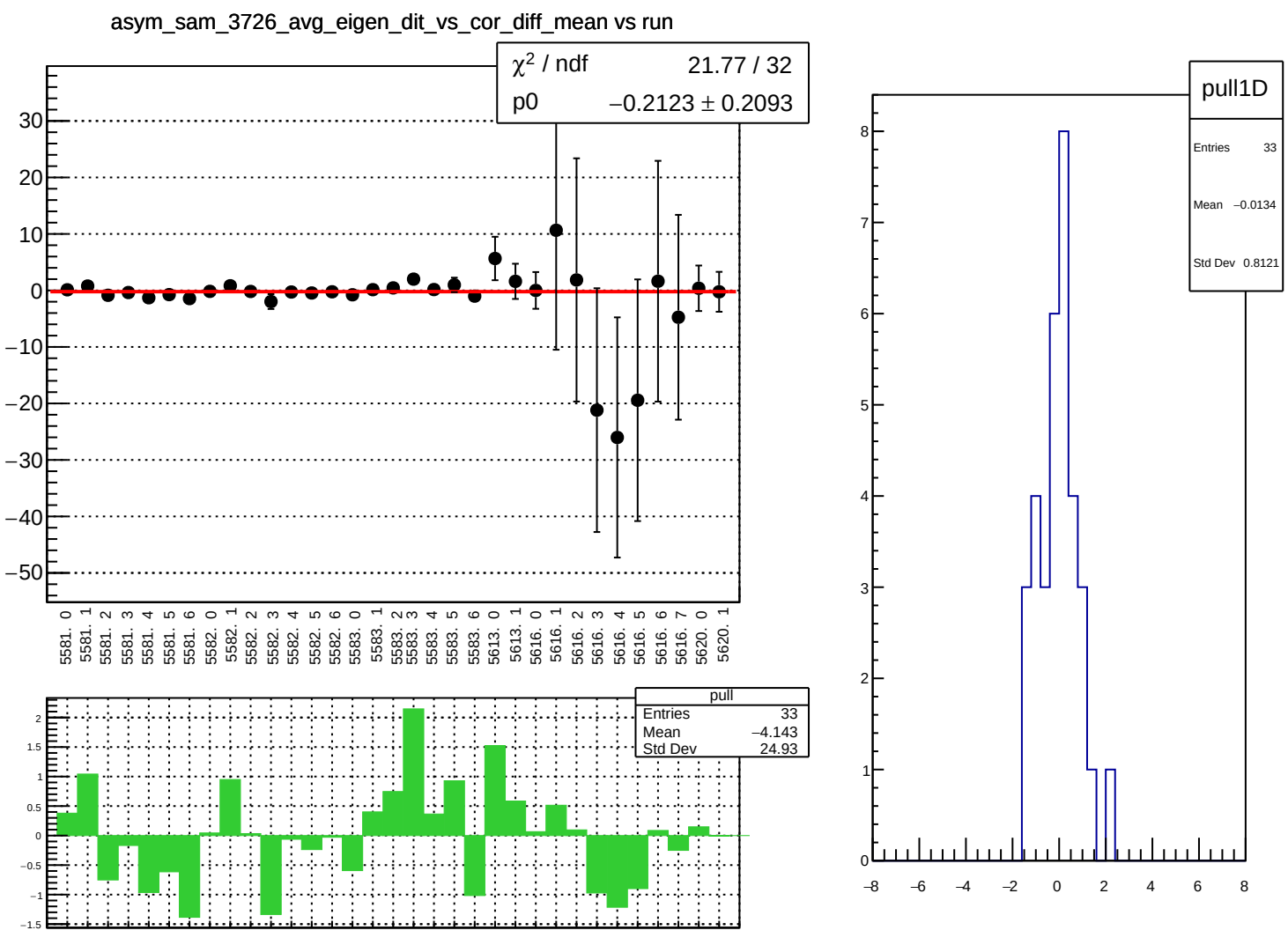

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.77 / 32
p0 −0.2123 ± 0.2093
30
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −4.15
Std Dev 24.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.0134
Std Dev 0.8121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

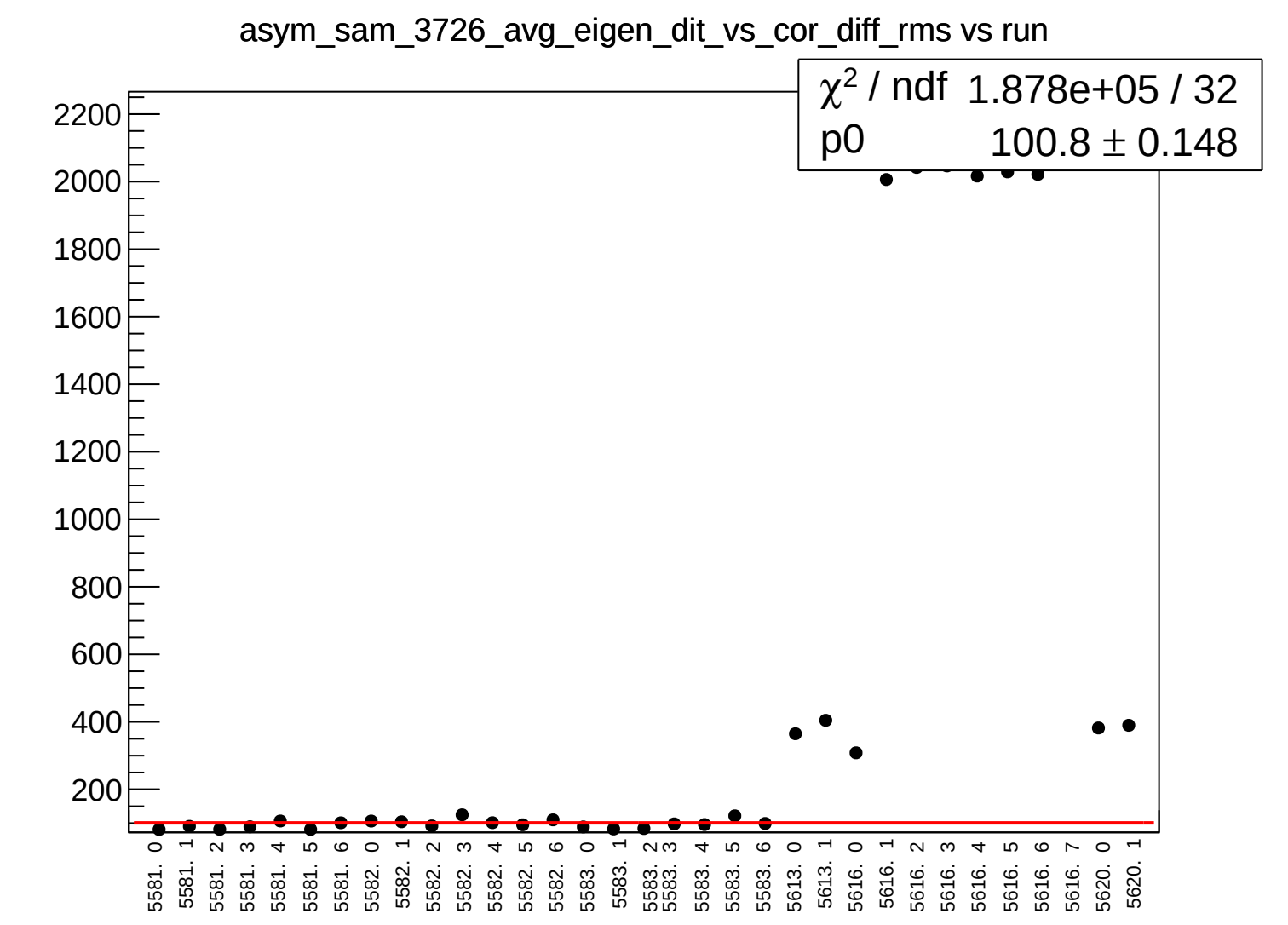

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.878e+05 / 32
p0 100.8 ± 0.148
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

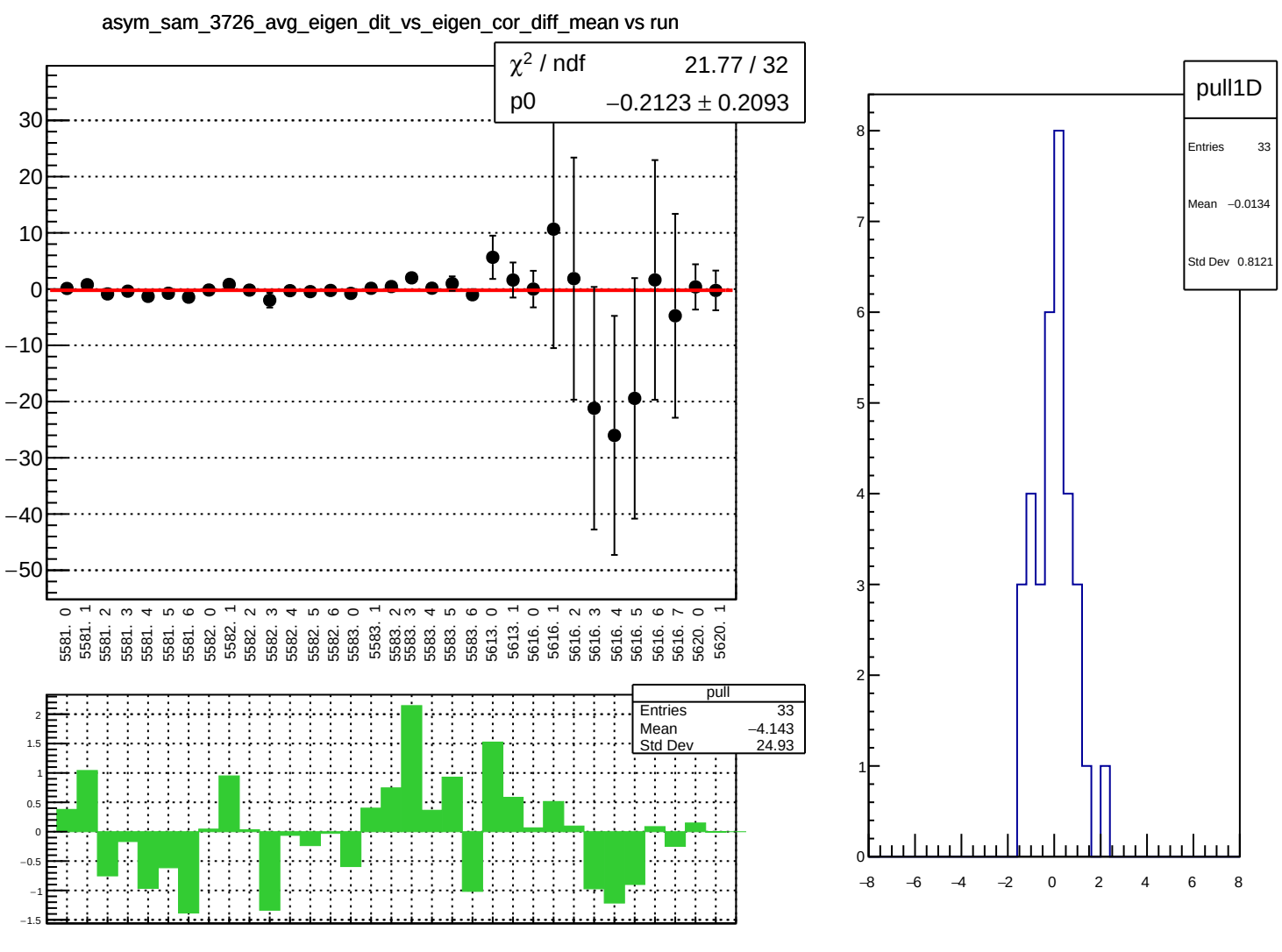

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.21 / 32
p0 3.693e−06 ± 5.594e−06
0.1
0.05
0
−0.05
−0.1
−0.15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 46.17
Std Dev 0
2
1
0
−1
−2

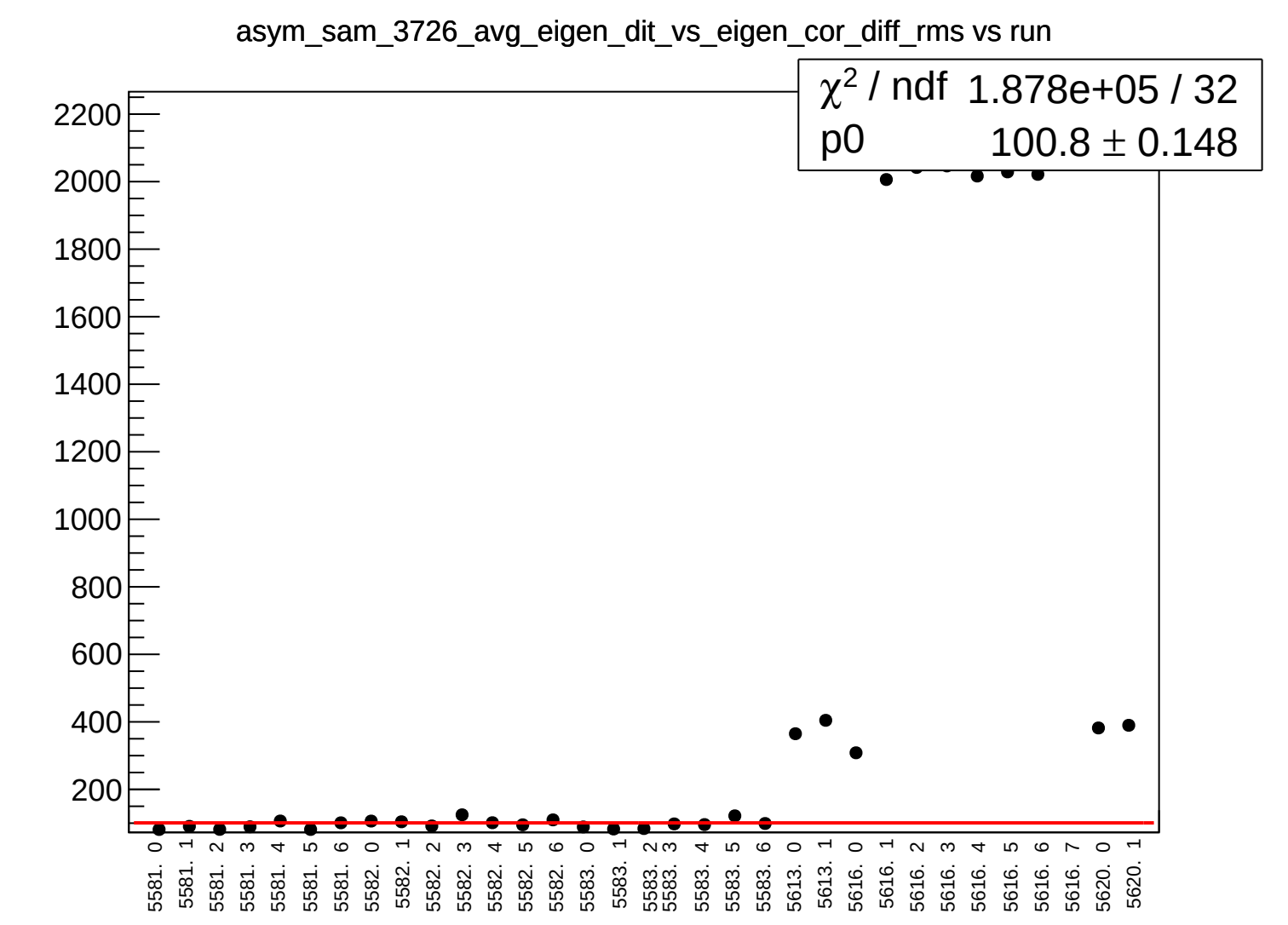

pull1D
Entries 33
Mean −0.08447
Std Dev 1.029
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

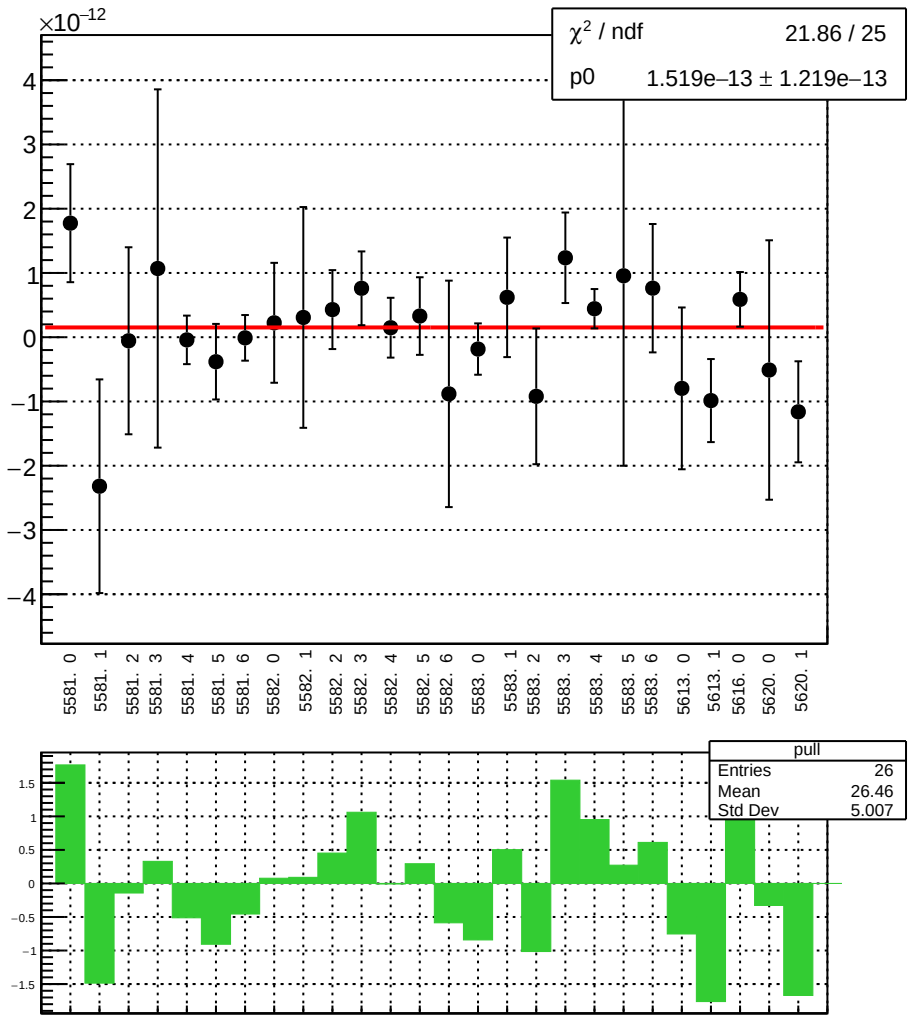

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.827e+04 / 32
p0 0.003048 ± 3.956e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

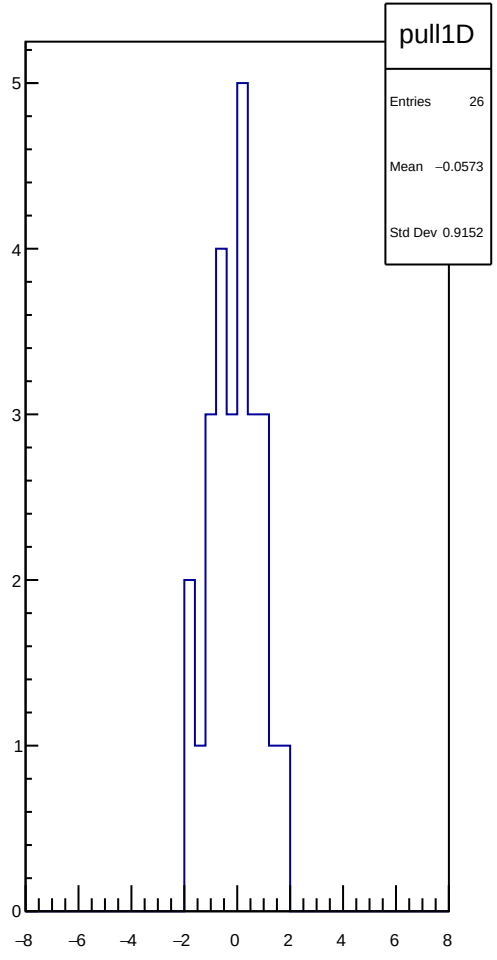

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 21.77 / 32
p0 −0.2123 ± 0.2093
30
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −4.143
Std Dev 24.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.0134
Std Dev 0.8121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

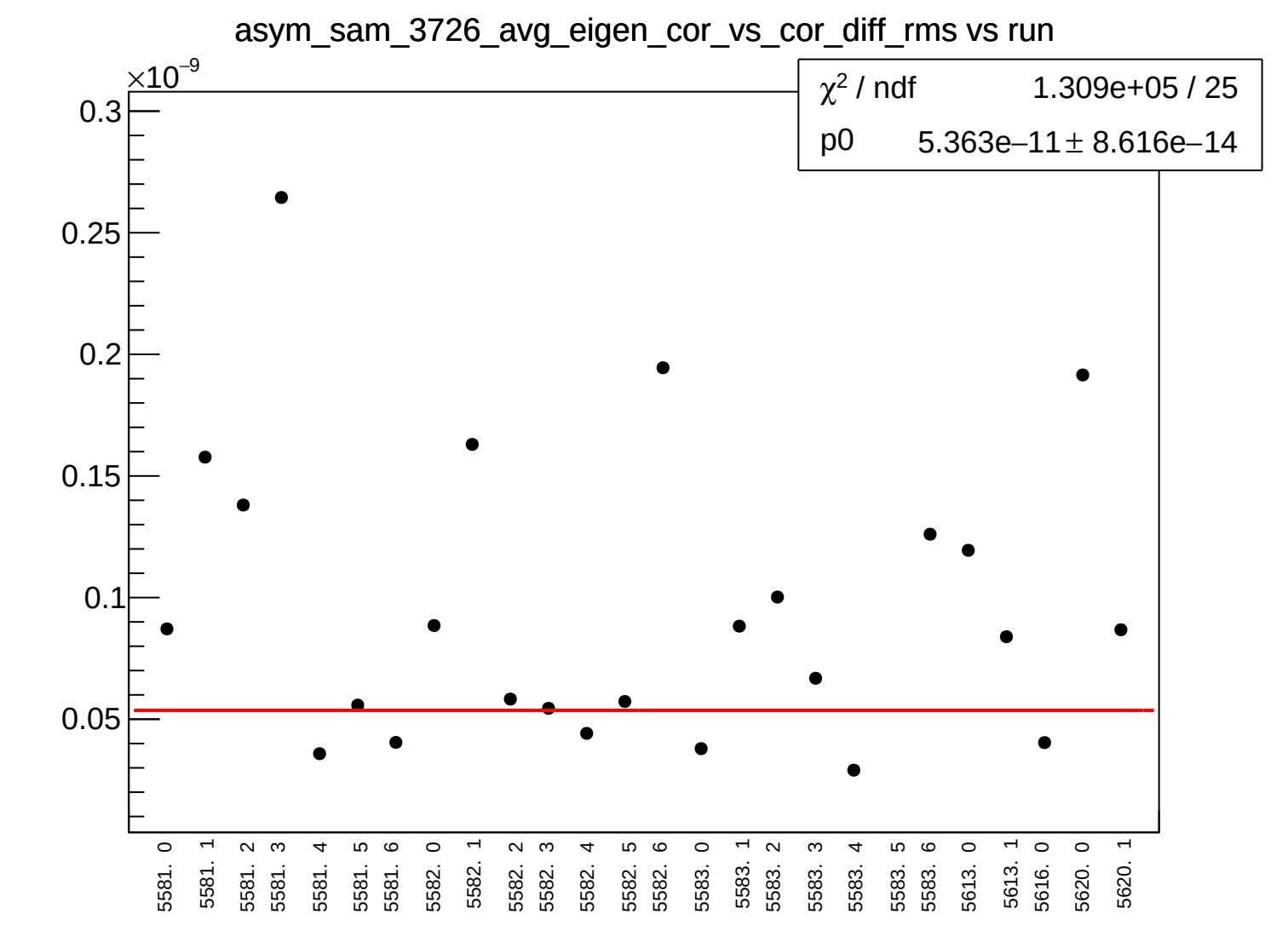

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.878e+05 / 32
p0 100.8 ± 0.148
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

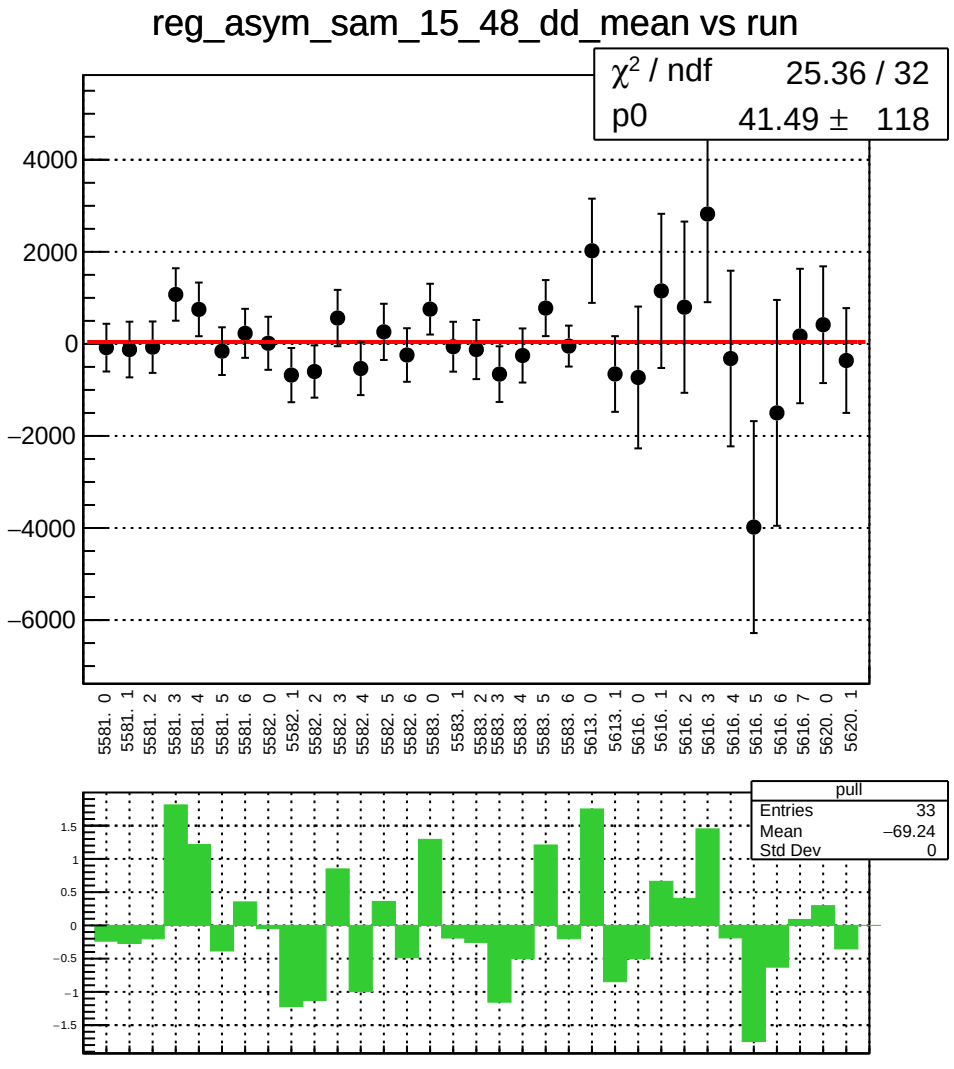

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.77 / 32
p0 −0.2123 ± 0.2093
30
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −4.143
Std Dev 24.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.0134
Std Dev 0.8121
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

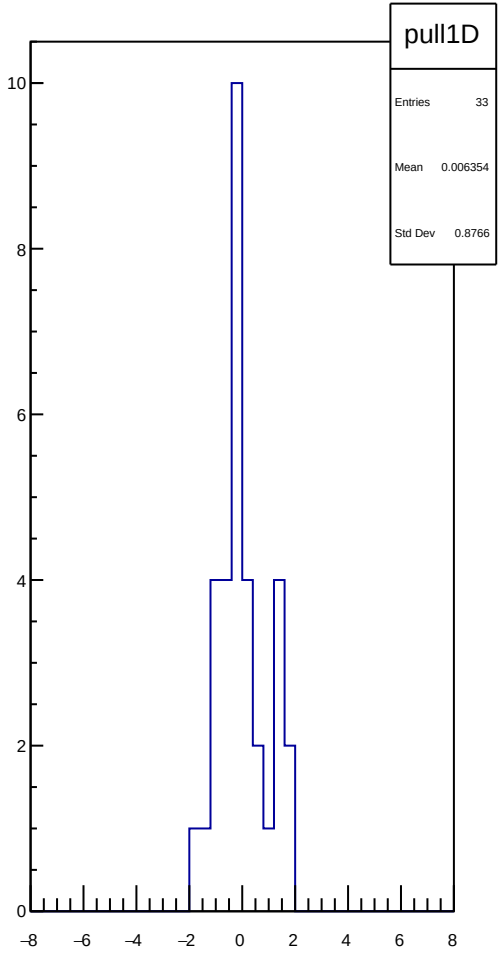

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.878e+05 / 32
p0 100.8 ± 0.148
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

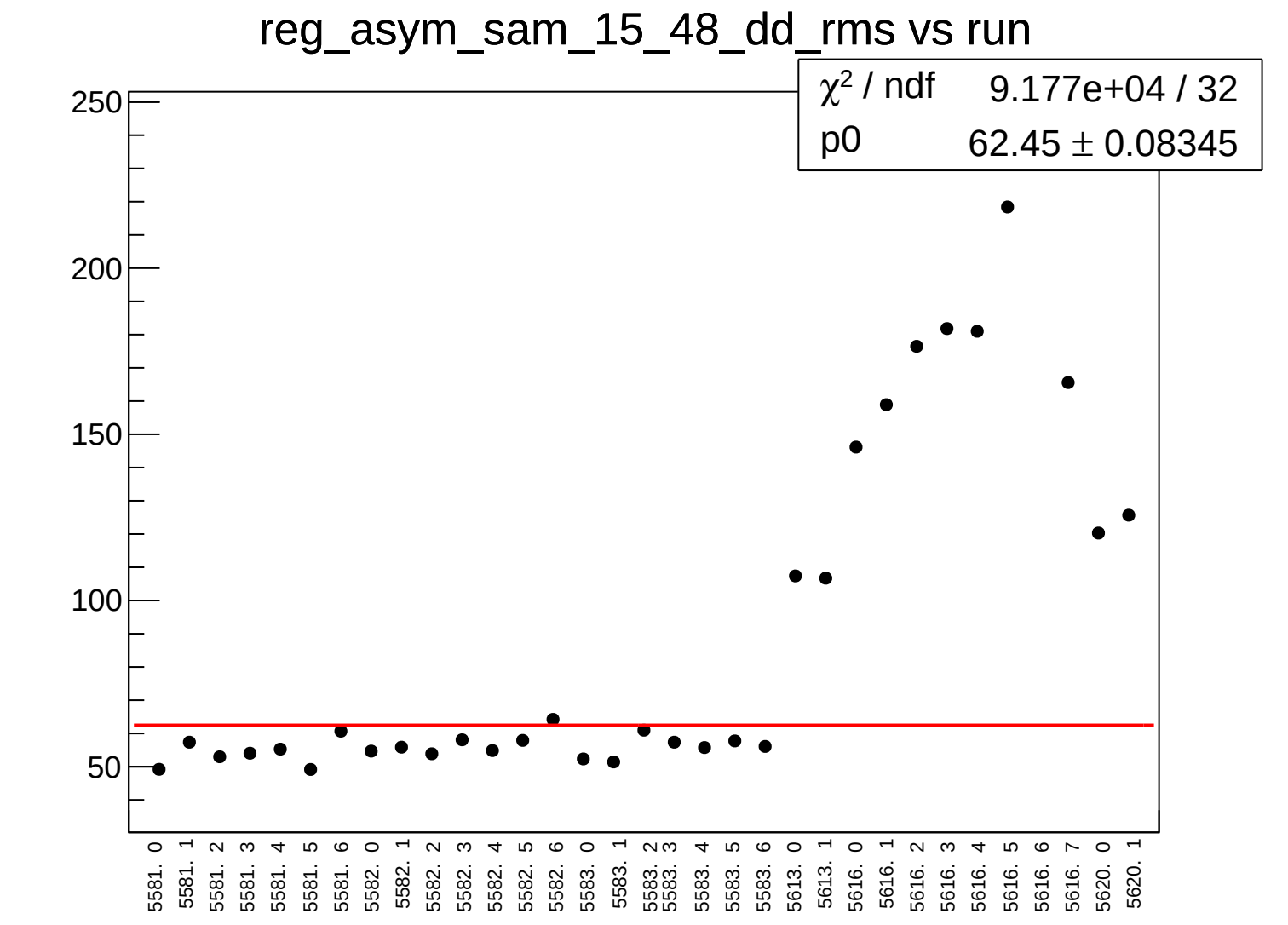

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 21.86 / 25
p0 1.519e−13 ± 1.219e−13
4
3
2
1
0
−1
−2
−3
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 26.46
Std Dev 5.007
1.5
1
0.5
0
−0.5
−1
−1.5

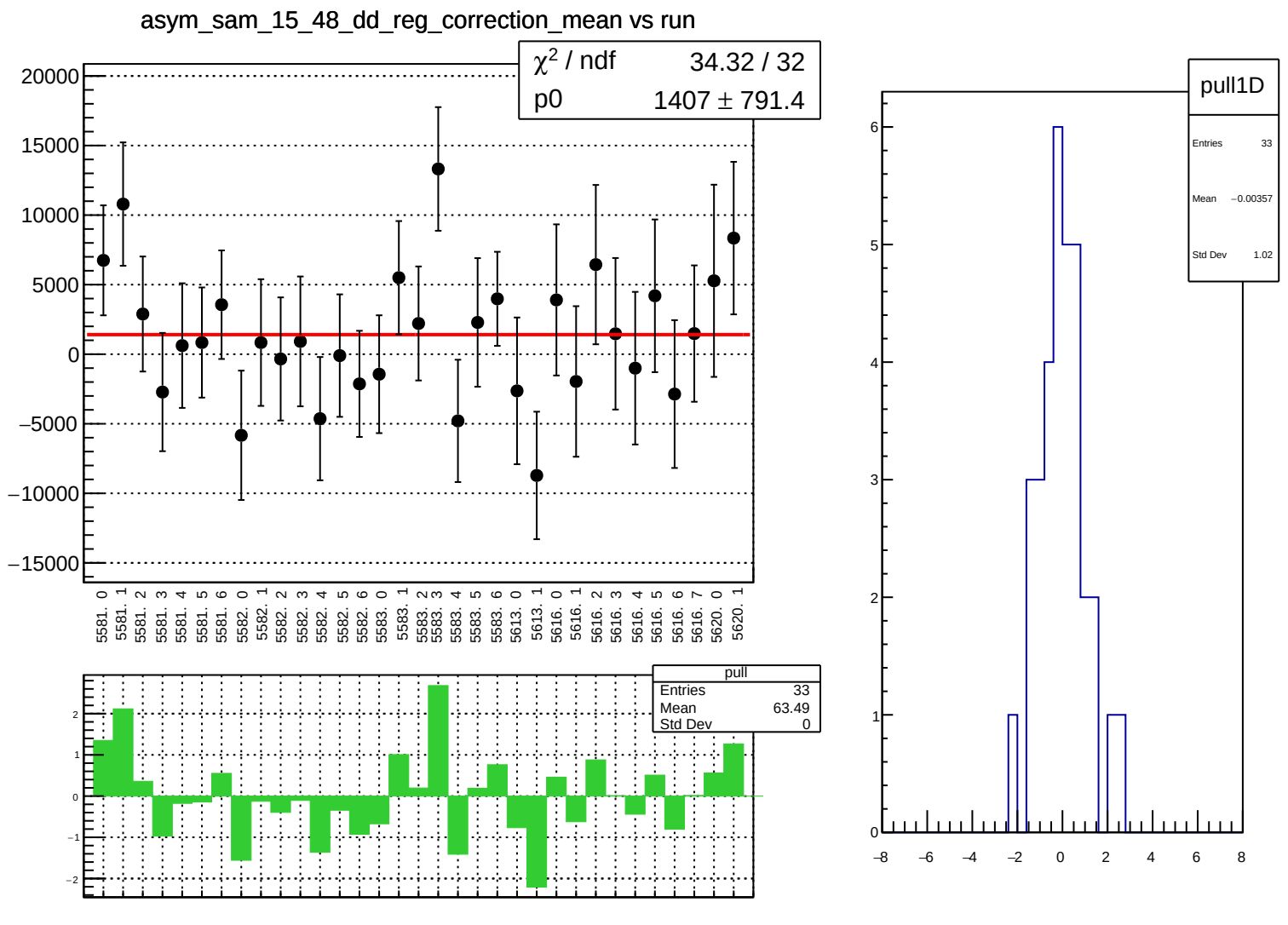

pull1D
Entries 26
Mean −0.0573
Std Dev 0.9152
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

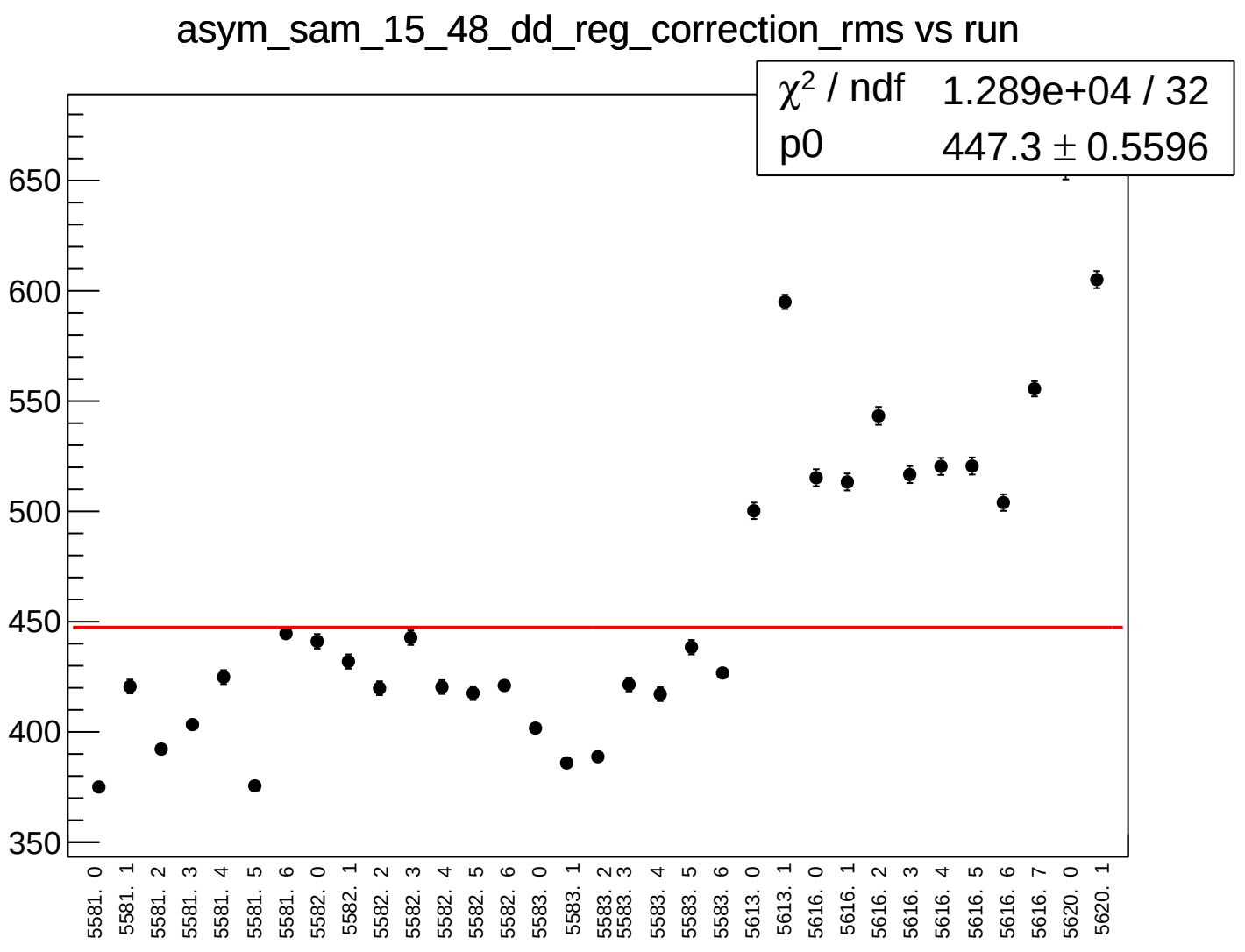

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.309e+05 / 25
p0 5.363e−11 ± 8.616e−14
0.3
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

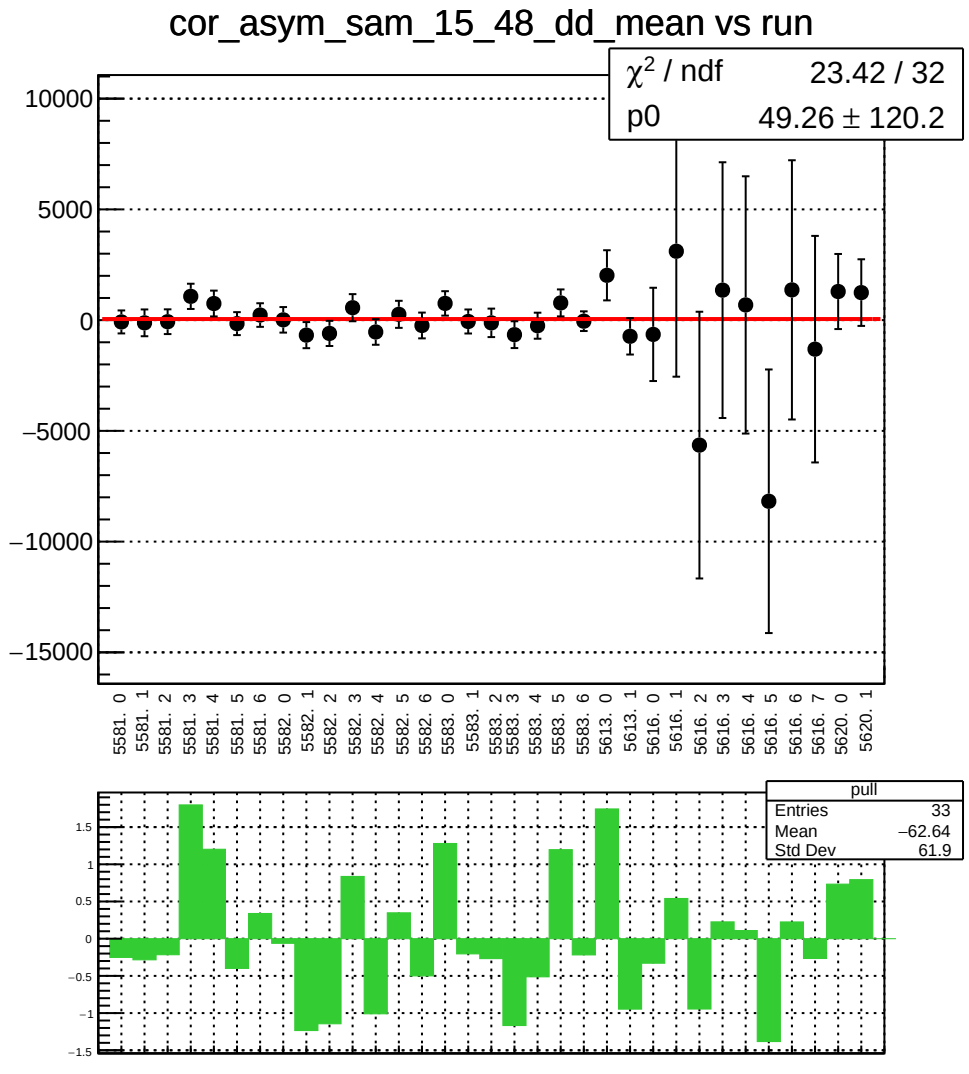

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 25.36 / 32
p0 41.49 ± 118
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −69.24
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

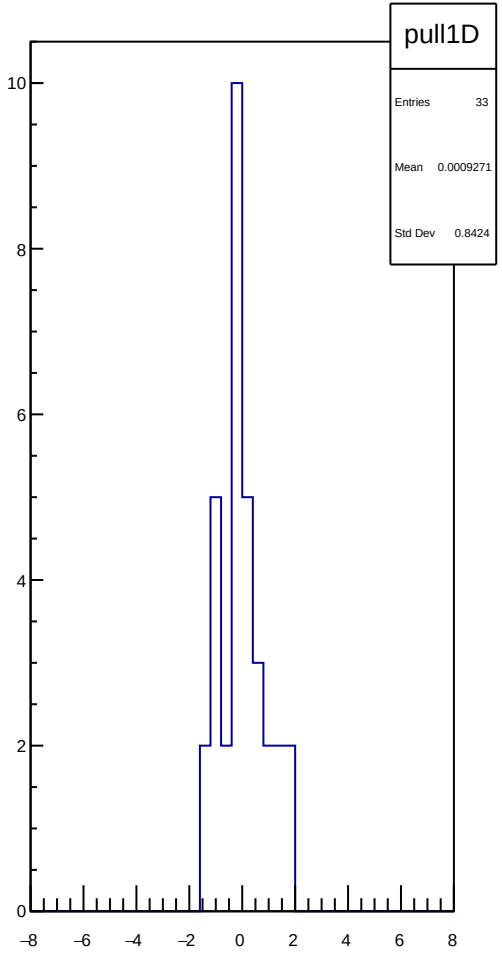

pull1D
Entries 33
Mean 0.006354
Std Dev 0.8766
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

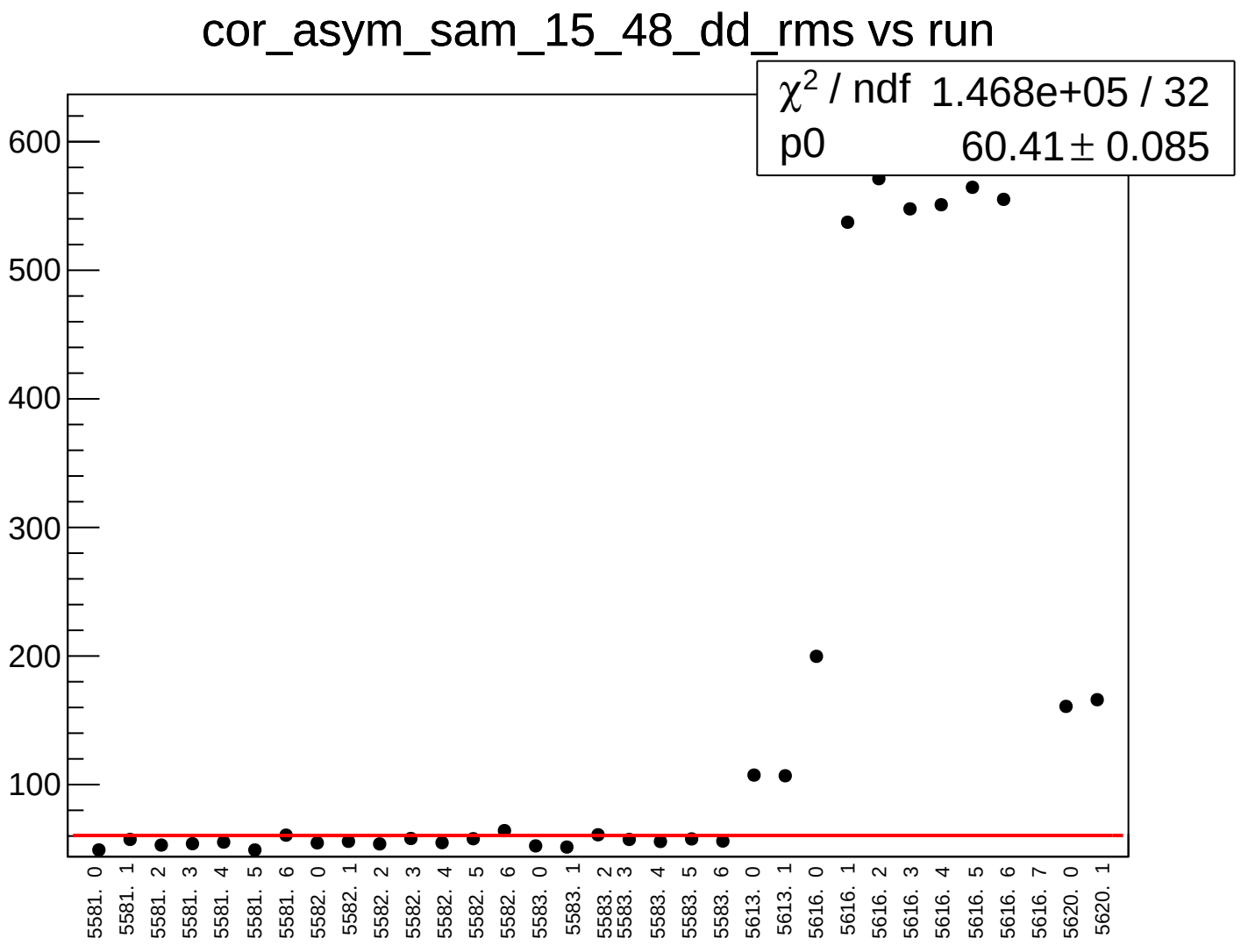

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 9.177e+04 / 32
p0 62.45 ± 0.08345
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

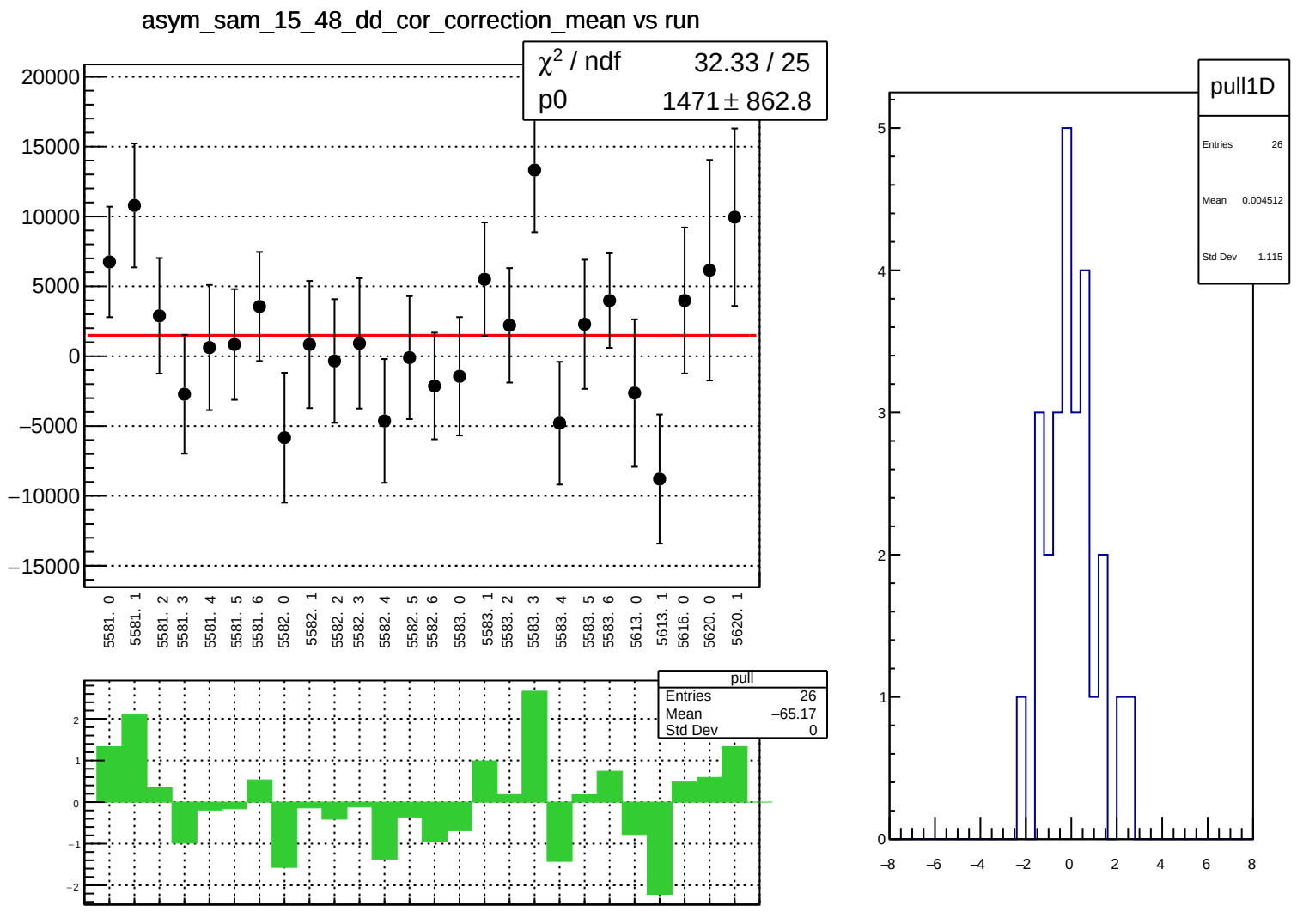

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 34.32 / 32
p0 1407 ± 791.4
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 63.49
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.00357
Std Dev 1.02
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

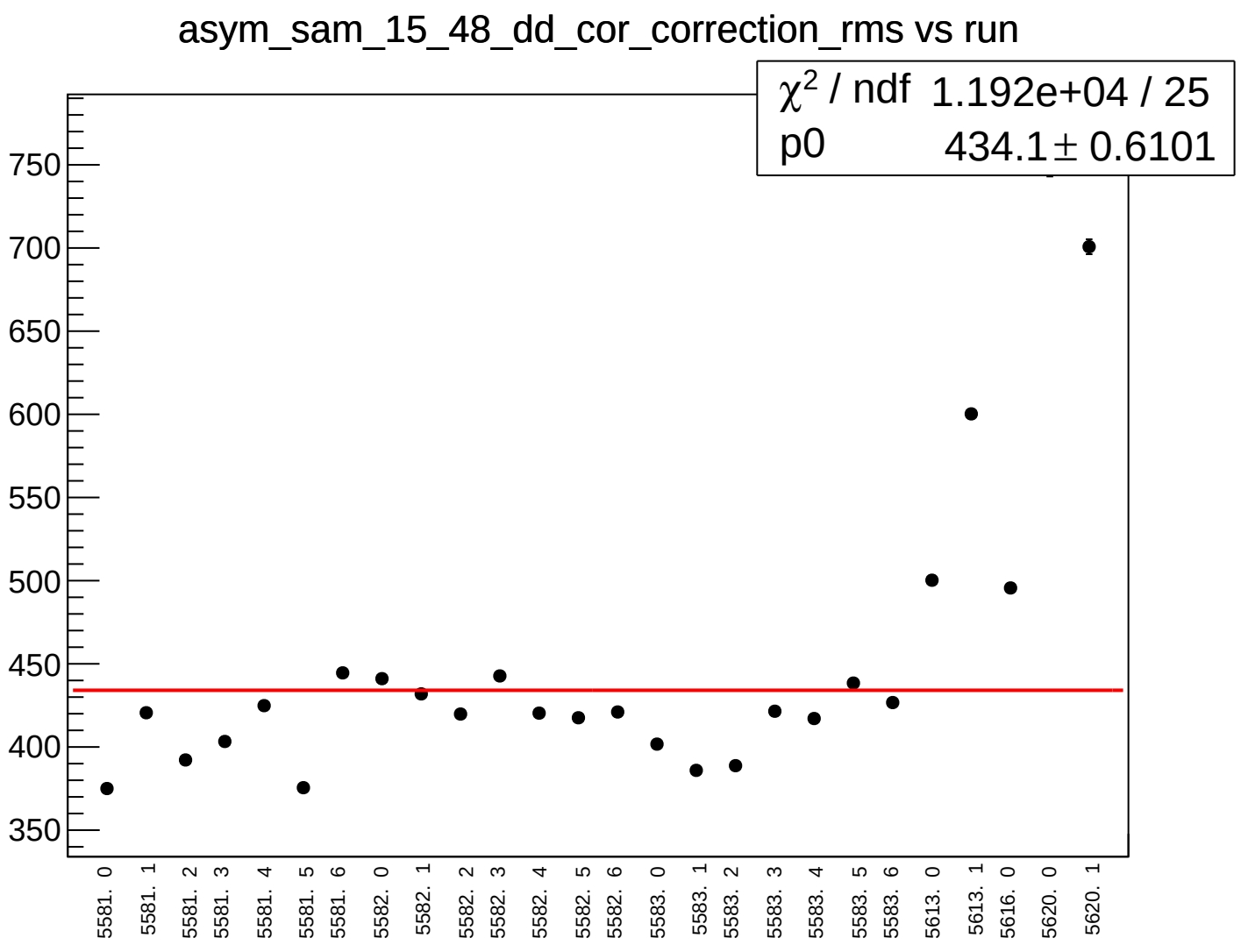

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.289e+04 / 32
p0 447.3 ± 0.5596
650
600
550
500
450
400
350
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

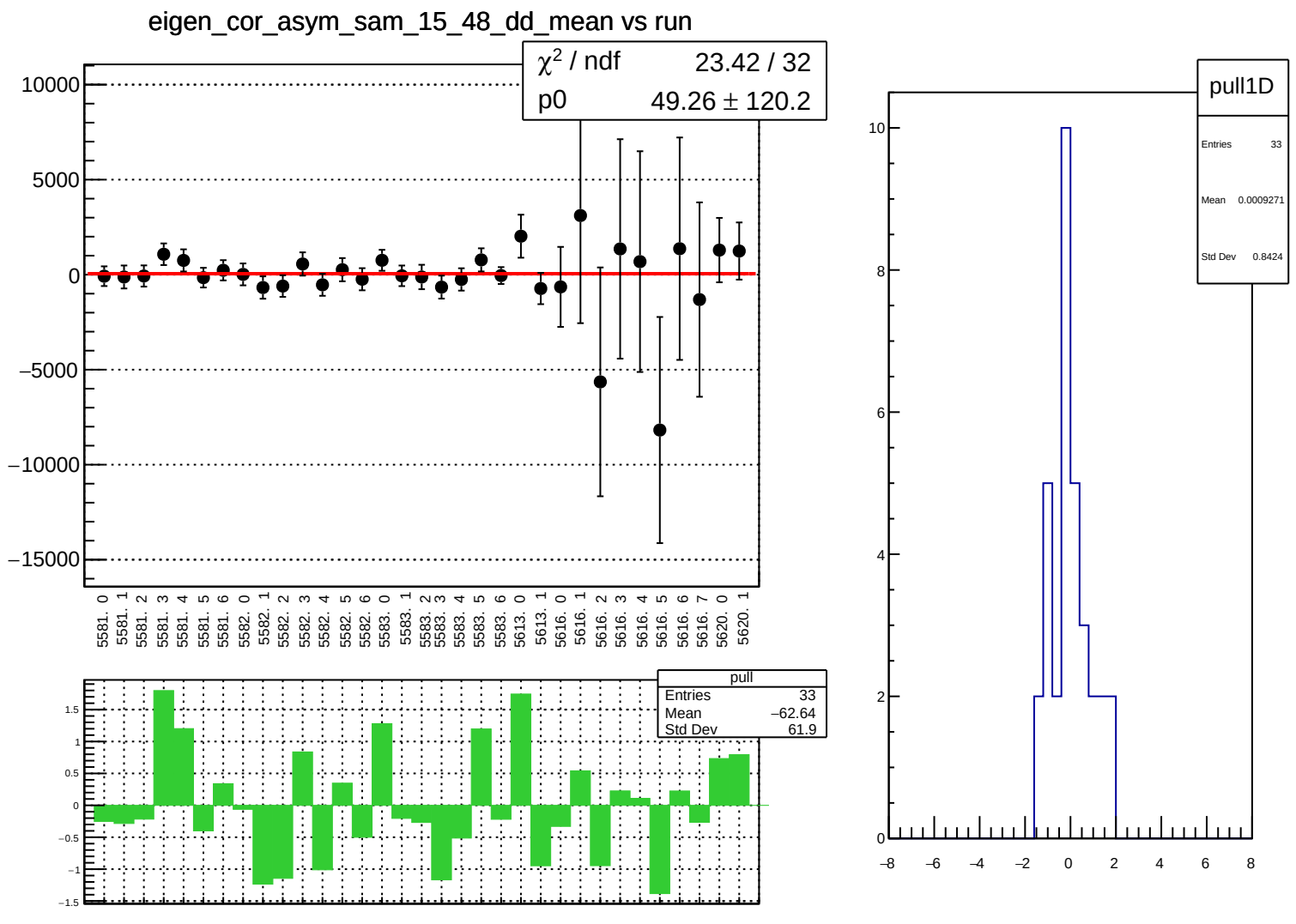

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 23.42 / 32
p0 49.26 ± 120.2
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −62.64
Std Dev 61.9
1.5
1
0.5
0
−0.5
−1
−1.5

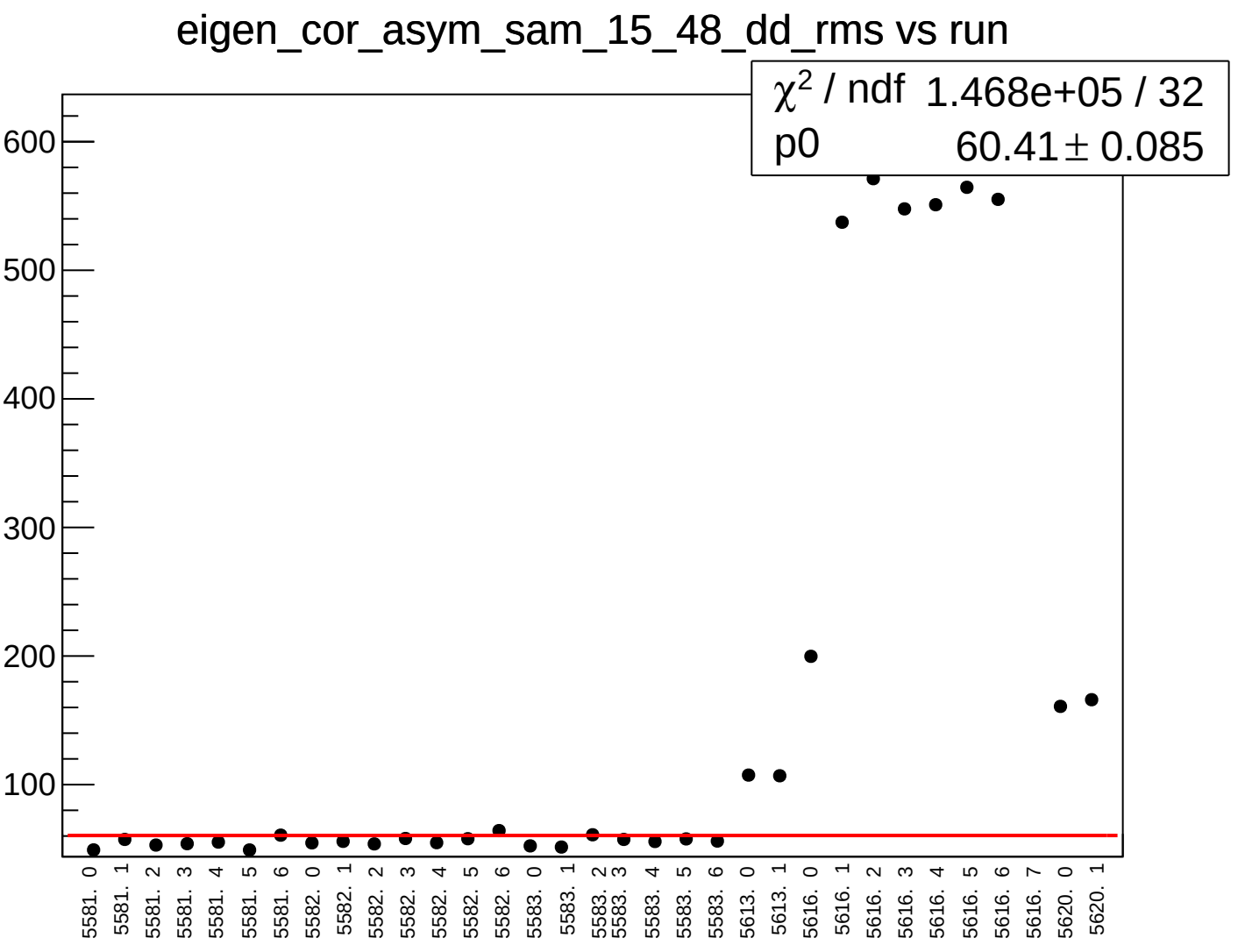

pull1D
Entries 33
Mean 0.0009271
Std Dev 0.8424
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

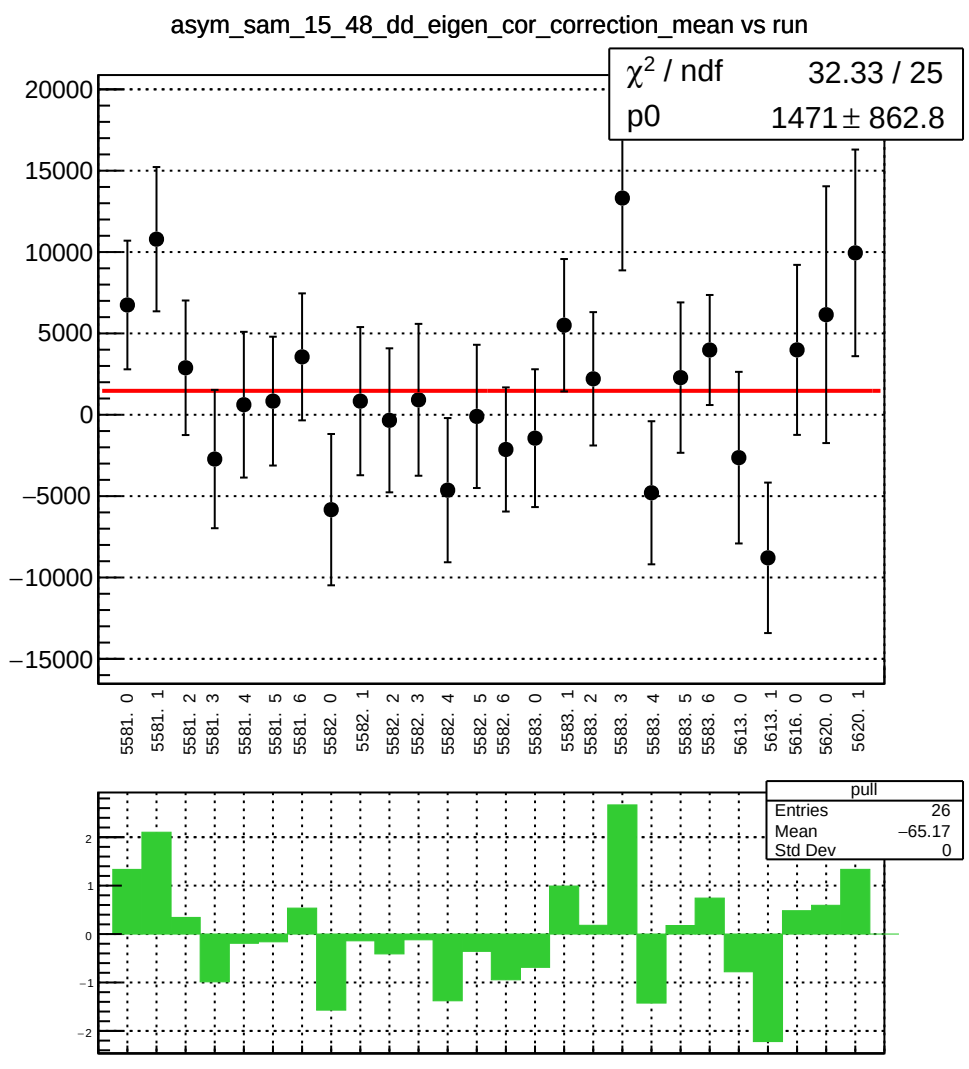

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.468e+05 / 32
p0 60.41 ± 0.085
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

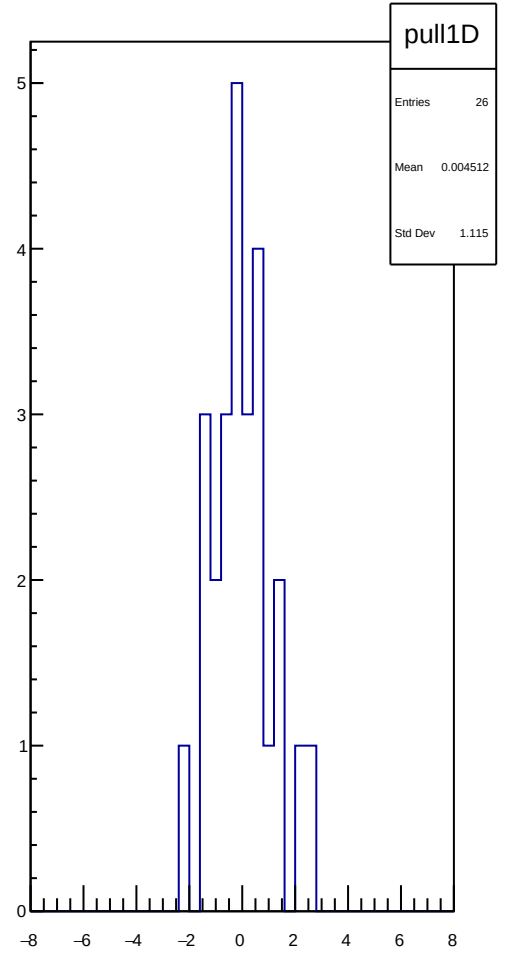

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 32.33 / 25
p0 1471 ± 862.8
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −65.17
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 26
Mean 0.004512
Std Dev 1.115
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

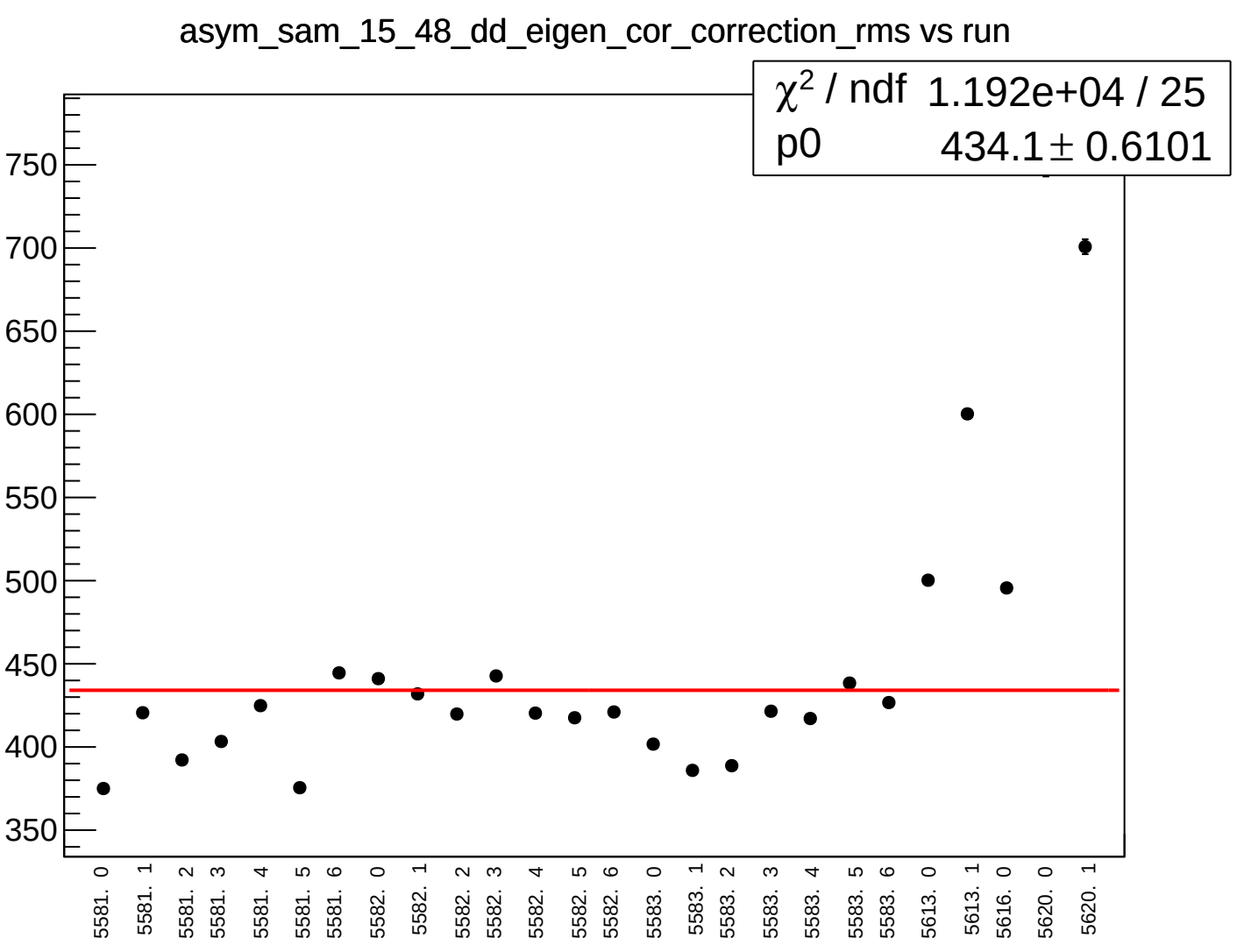

asym_sam_15_48_dd_cor_correction_rms vs run
χ2 / ndf 1.192e+04 / 25
p0 434.1 ± 0.6101
750
700
650
600
550
500
450
400
350
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

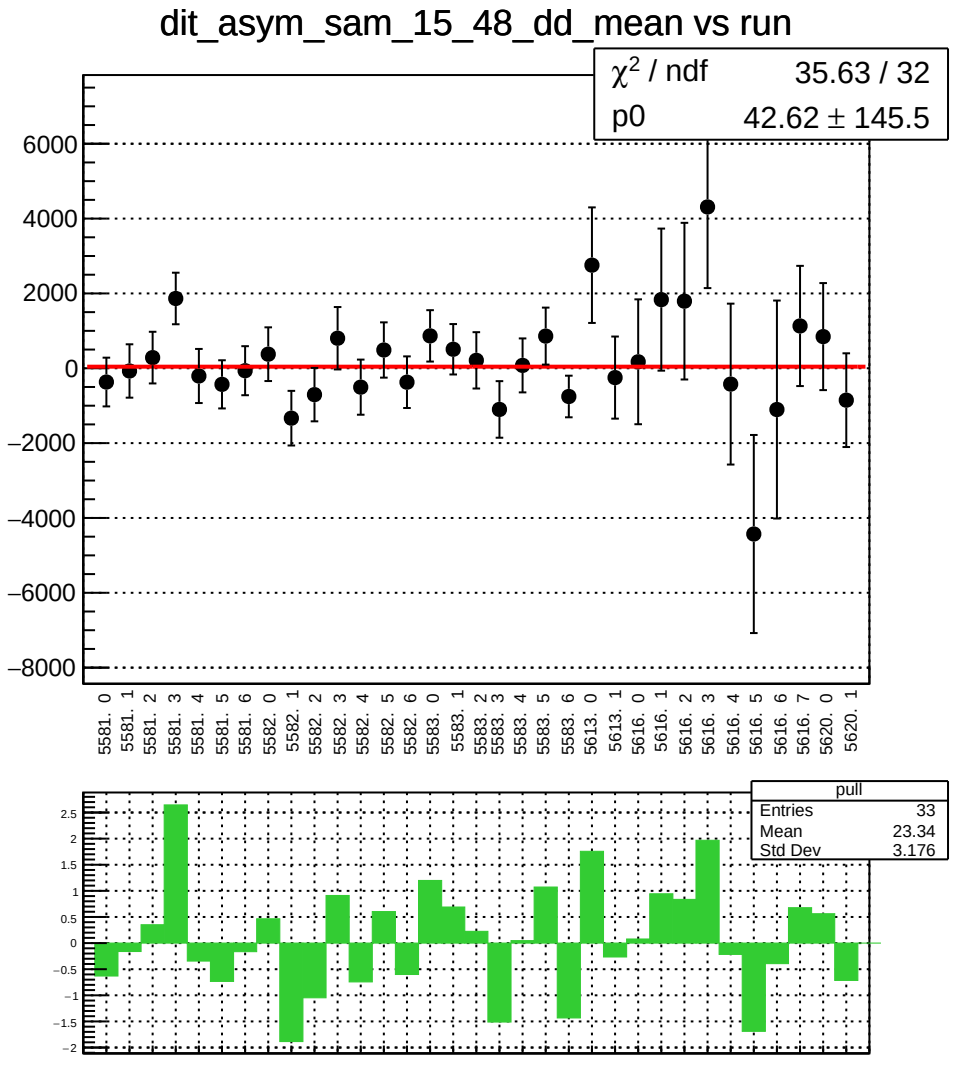

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 23.42 / 32
p0 49.26 ± 120.2
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −62.64
Std Dev 61.9
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.0009271
Std Dev 0.8424
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

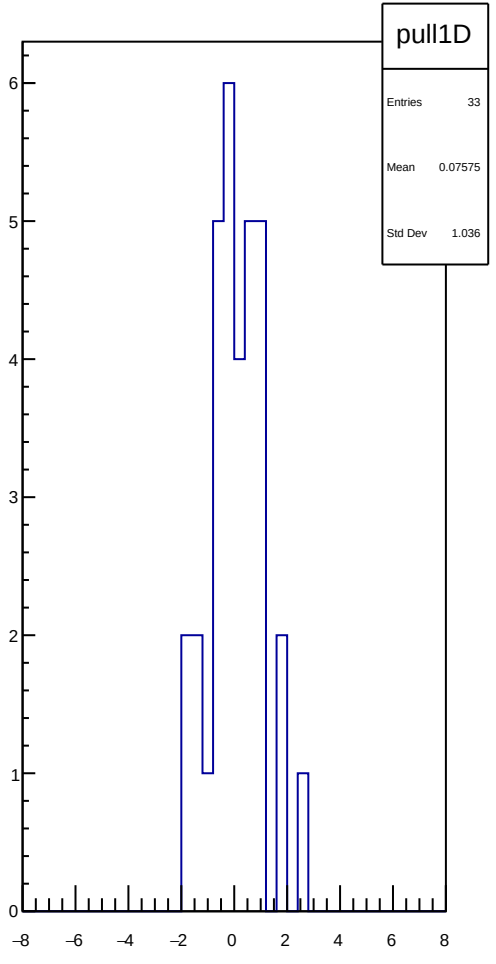

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.468e+05 / 32
p0 60.41 ± 0.085
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

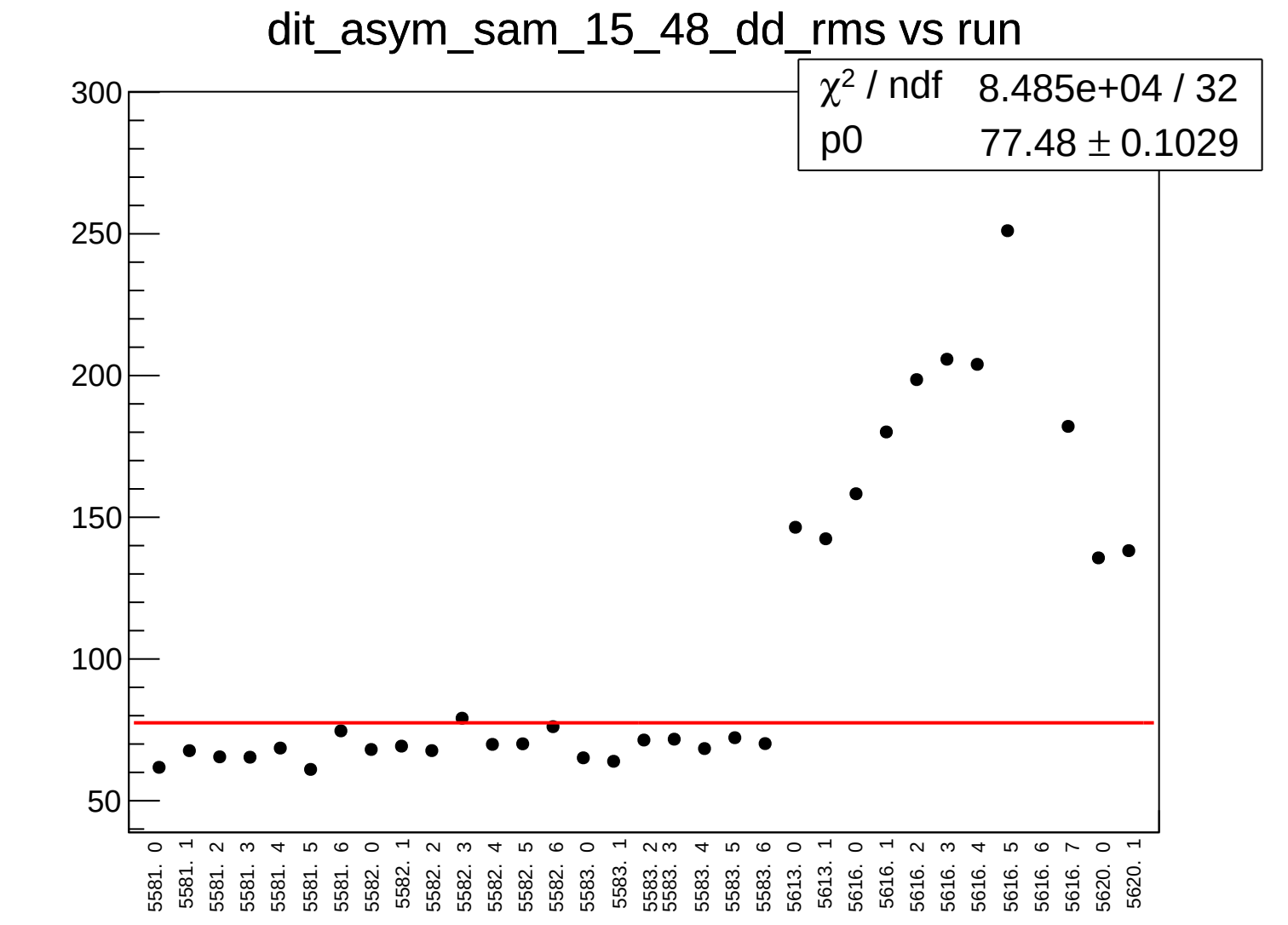

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 32.33 / 25
p0 1471 ± 862.8
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −65.17
Std Dev 0
2
1
0
−1
−2

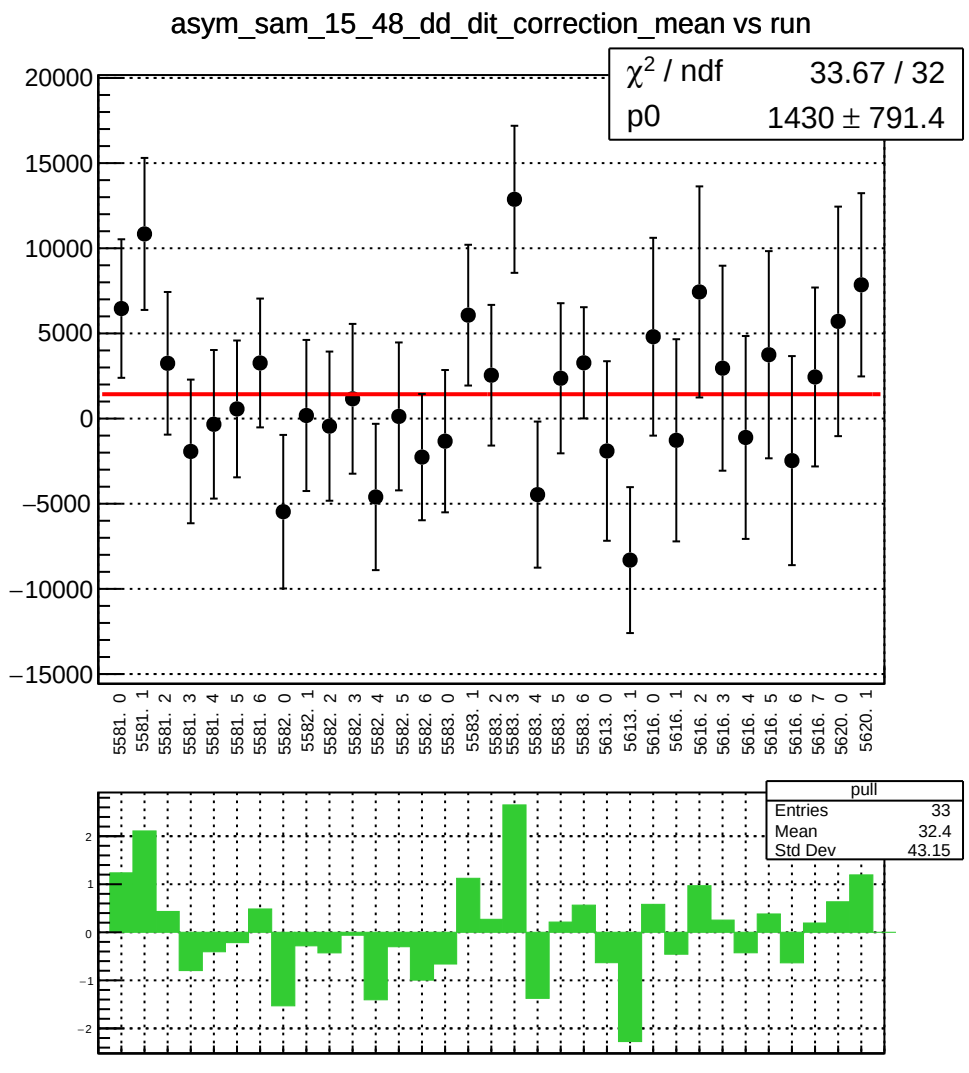

pull1D
Entries 26
Mean 0.004512
Std Dev 1.115
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

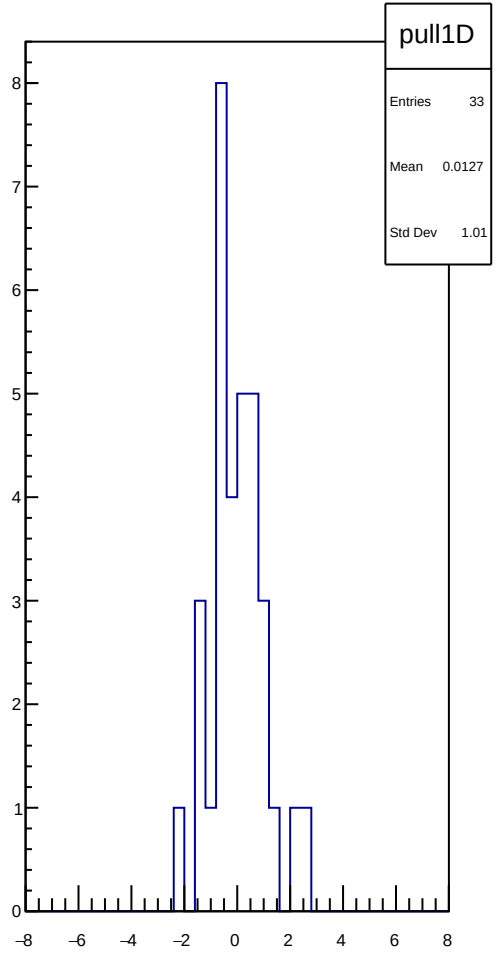

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.192e+04 / 25
p0 434.1 ± 0.6101
750
700
650
600
550
500
450
400
350
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

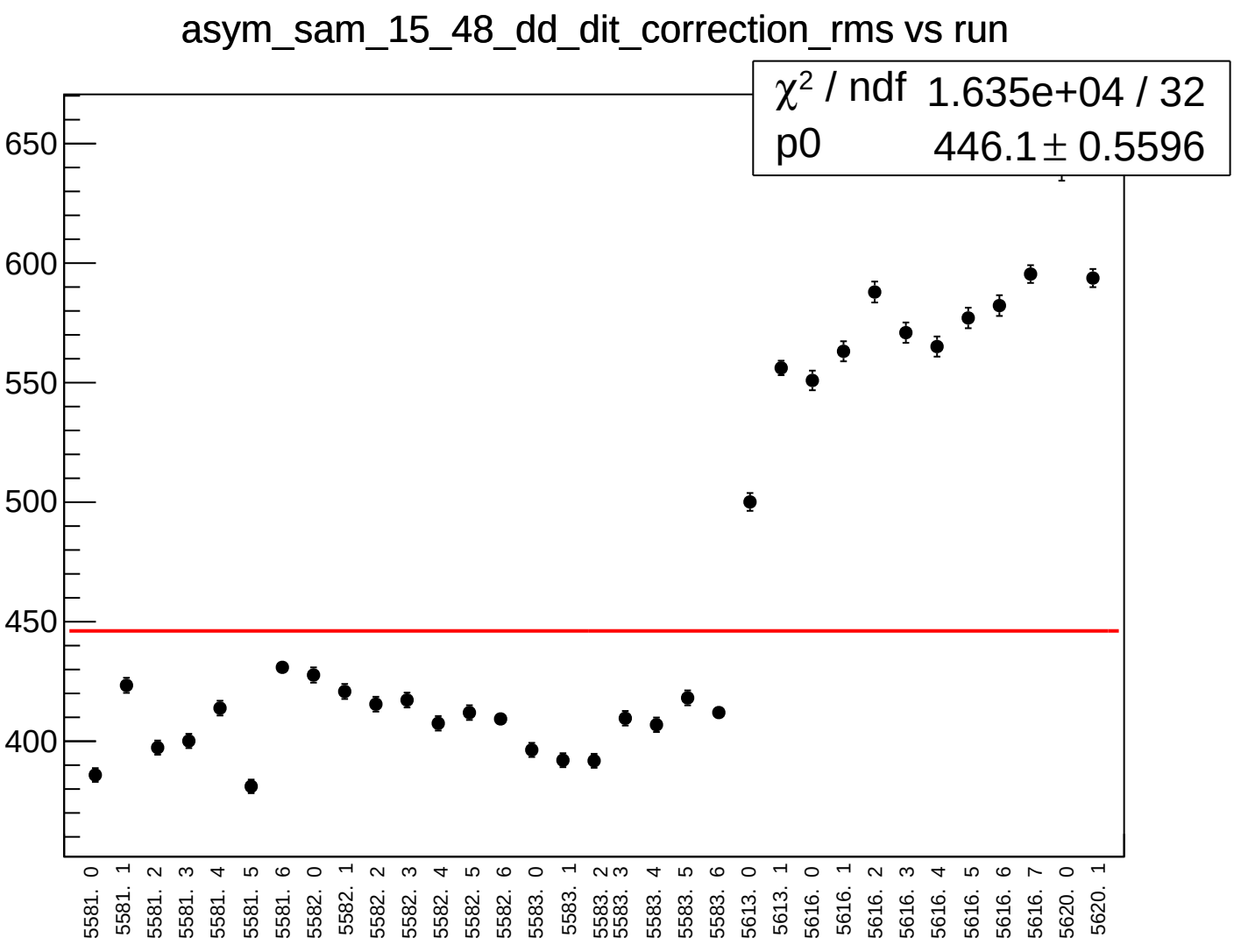

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 35.63 / 32
p0 42.62 ± 145.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.34
Std Dev 3.176
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

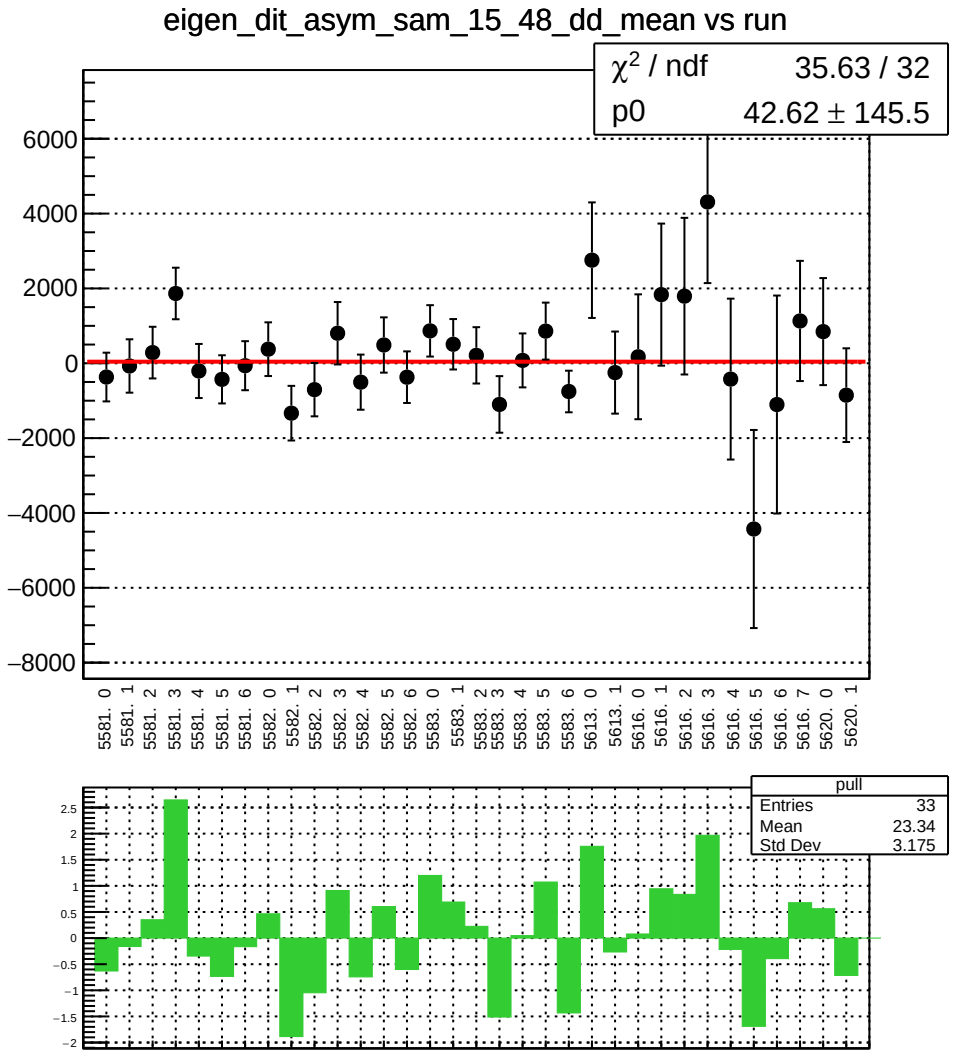

pull1D
Entries 33
Mean 0.07575
Std Dev 1.036
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

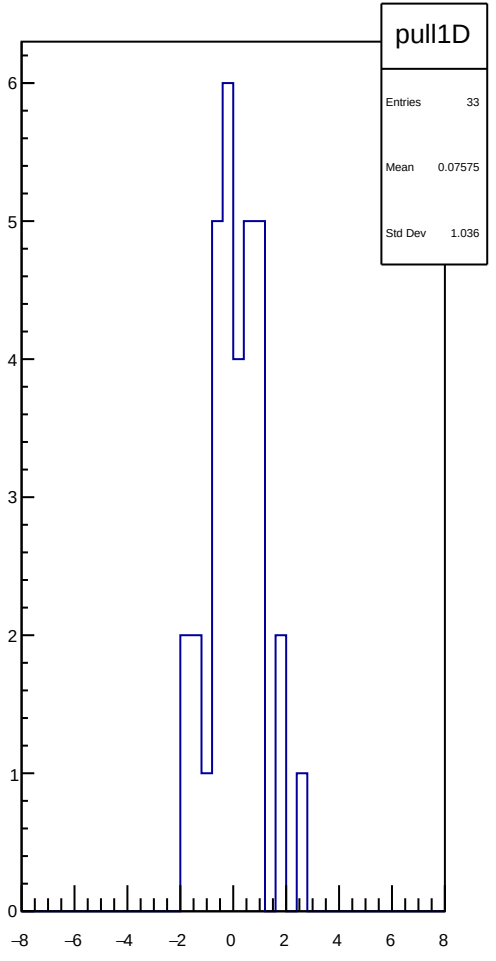

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 8.485e+04 / 32
p0 77.48 ± 0.1029
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

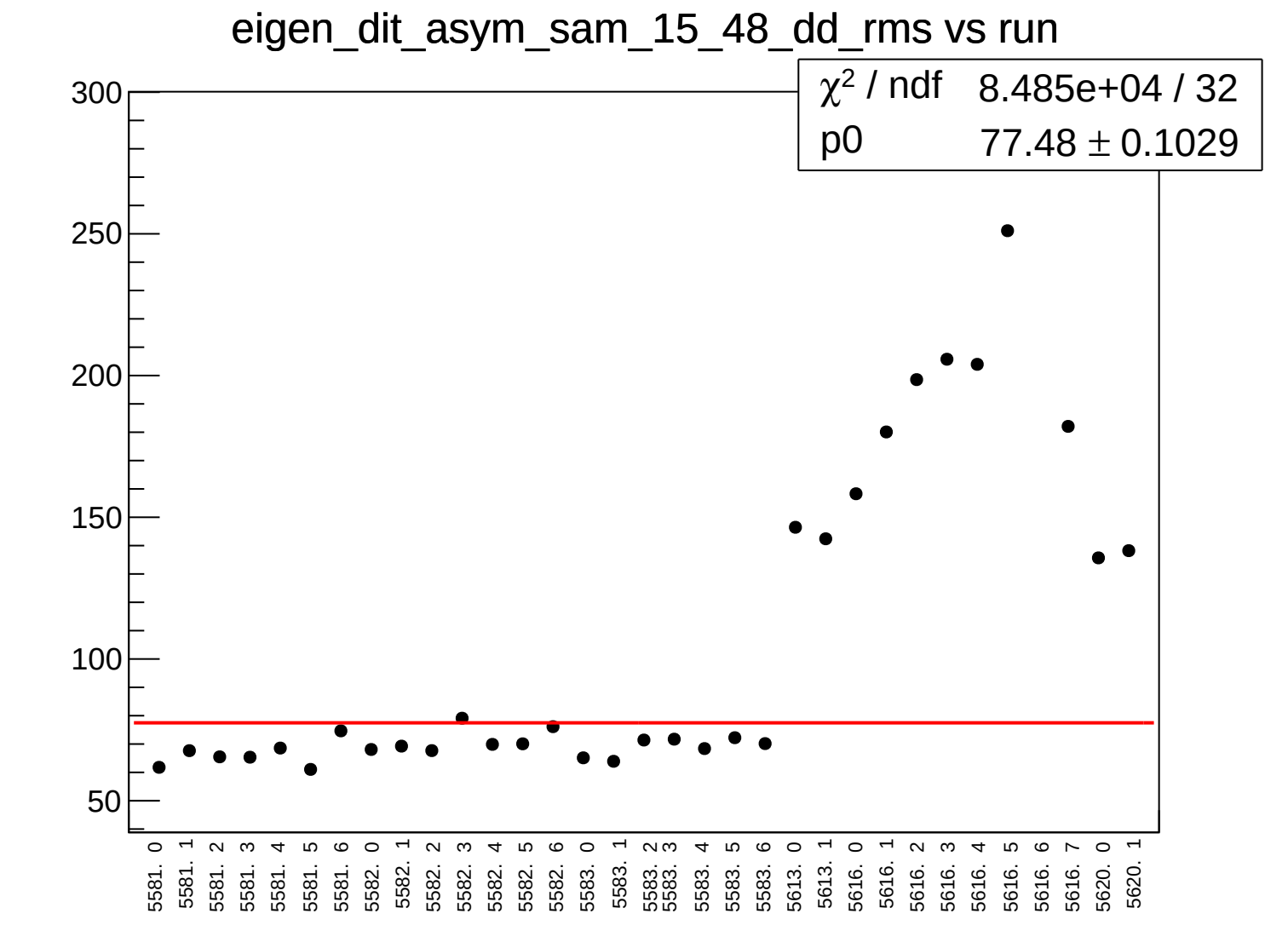

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 33.67 / 32
p0 1430 ± 791.4
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 32.4
Std Dev 43.15
2
1
0
−1
−2

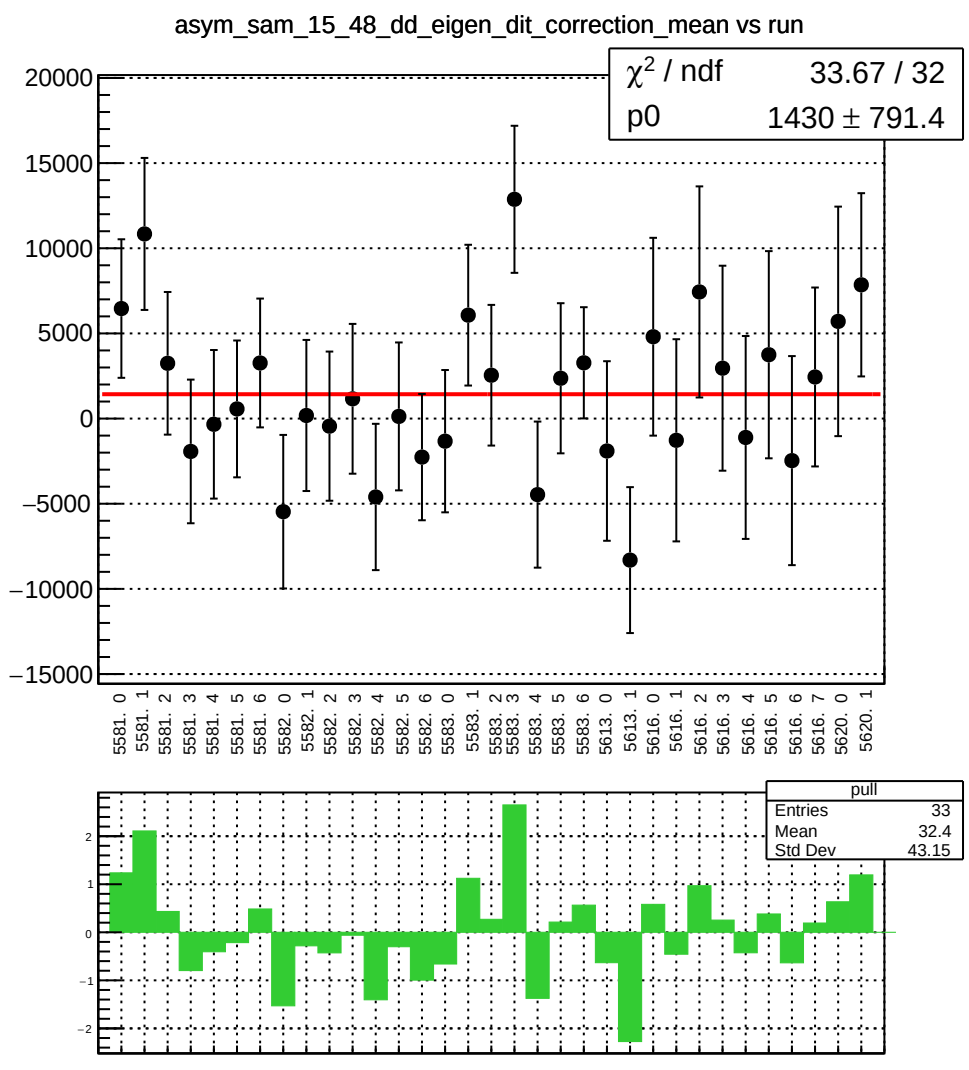

pull1D
Entries 33
Mean 0.0127
Std Dev 1.01
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

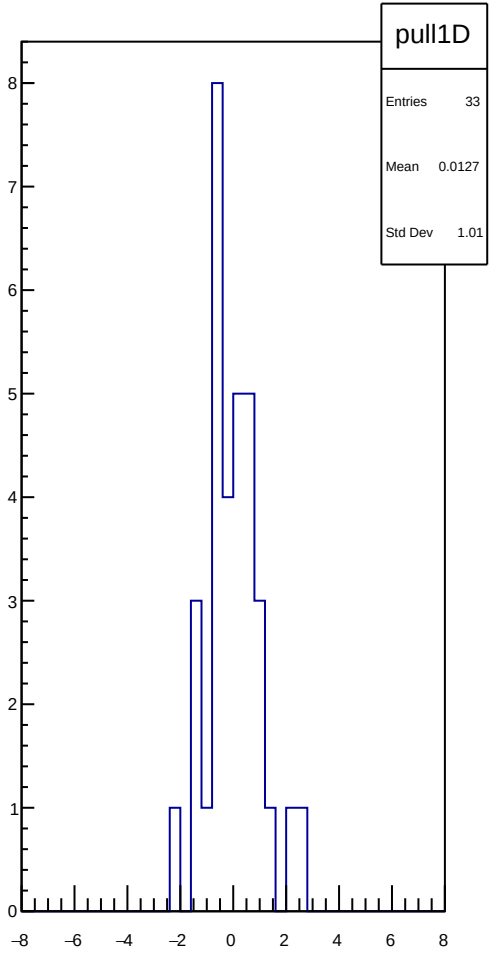

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1.635e+04 / 32
p0 446.1 ± 0.5596
650
600
550
500
450
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

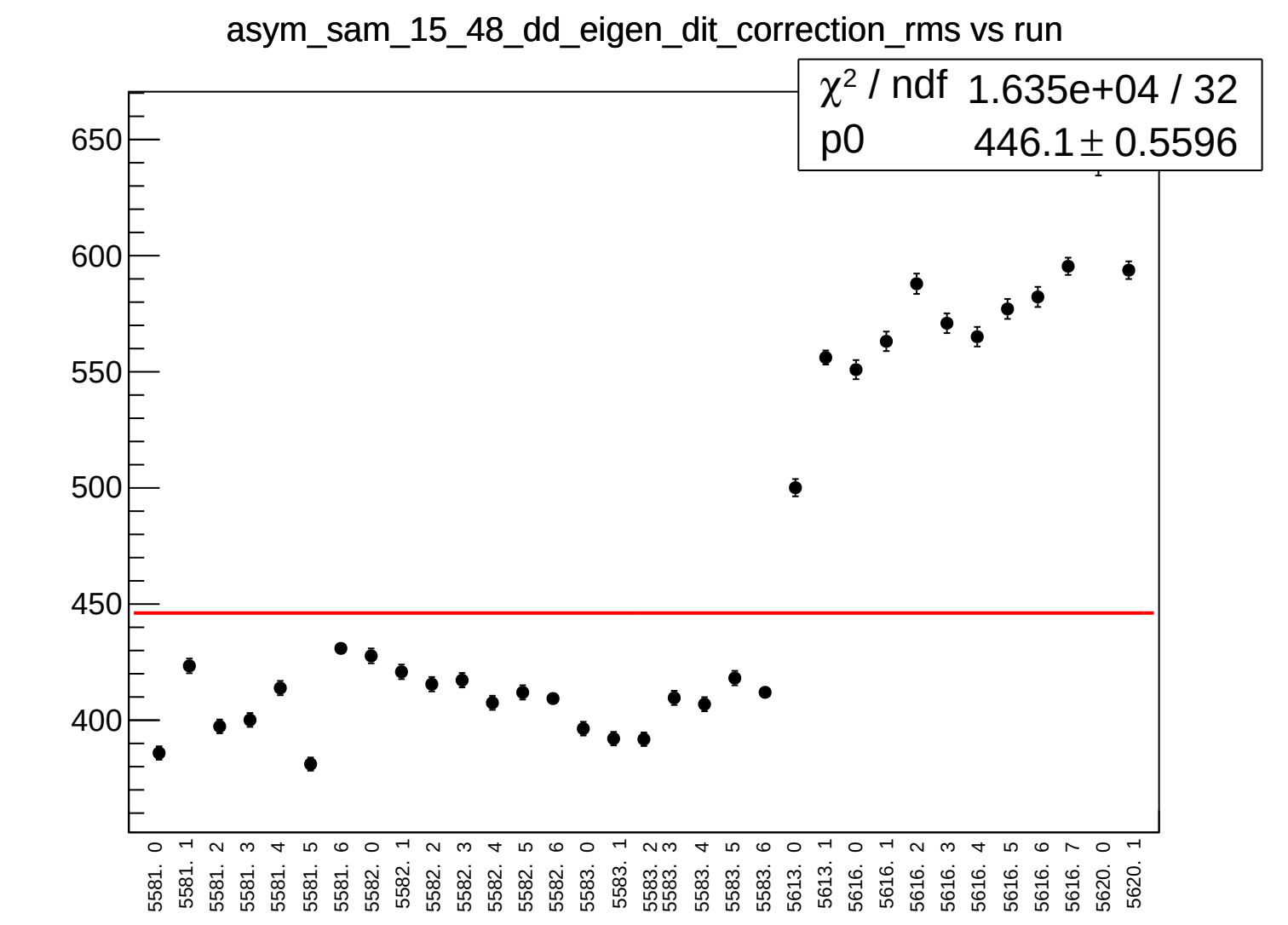

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 35.63 / 32
p0 42.62 ± 145.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.34
Std Dev 3.175
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

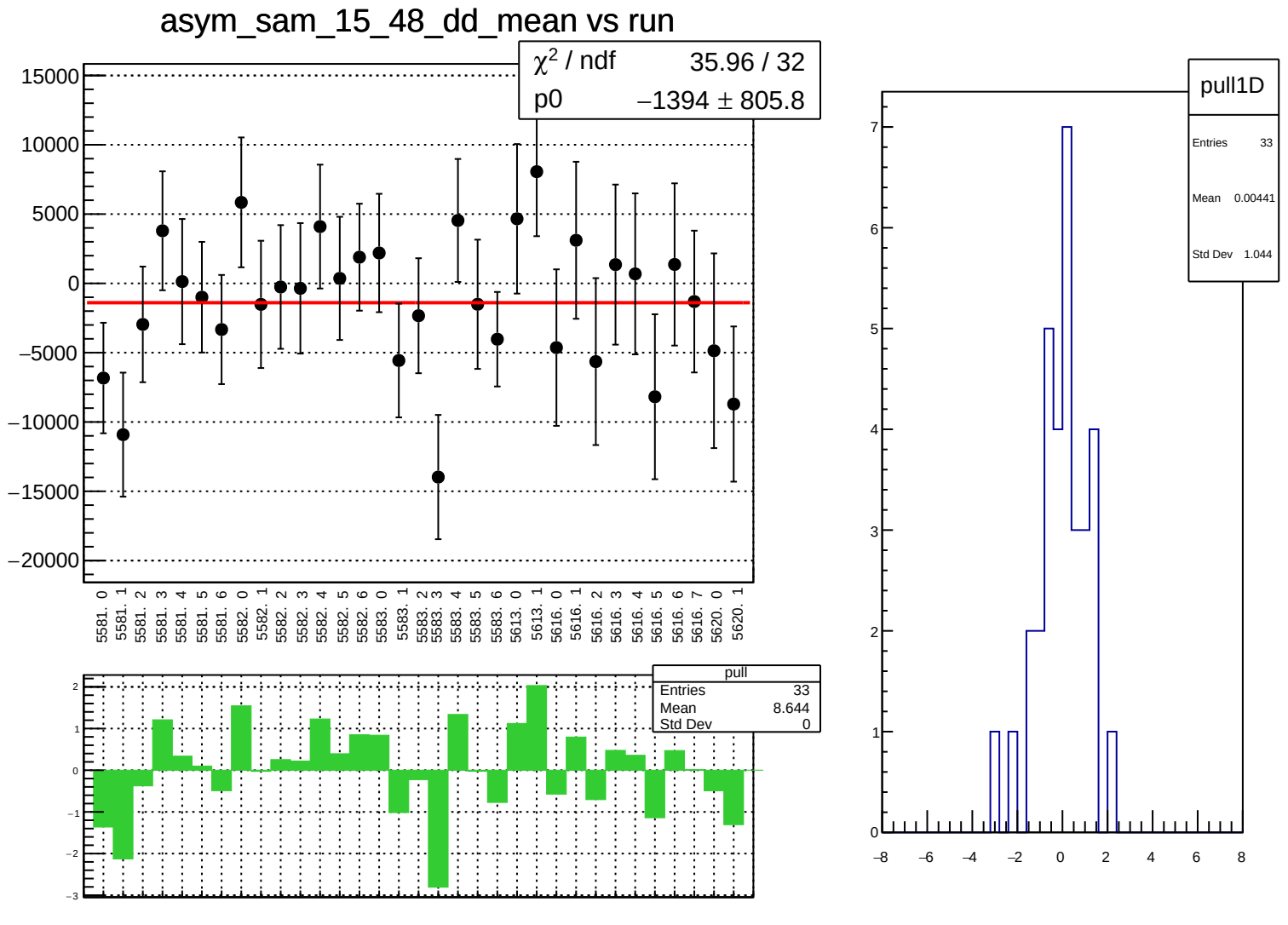

pull1D
Entries 33
Mean 0.07575
Std Dev 1.036
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

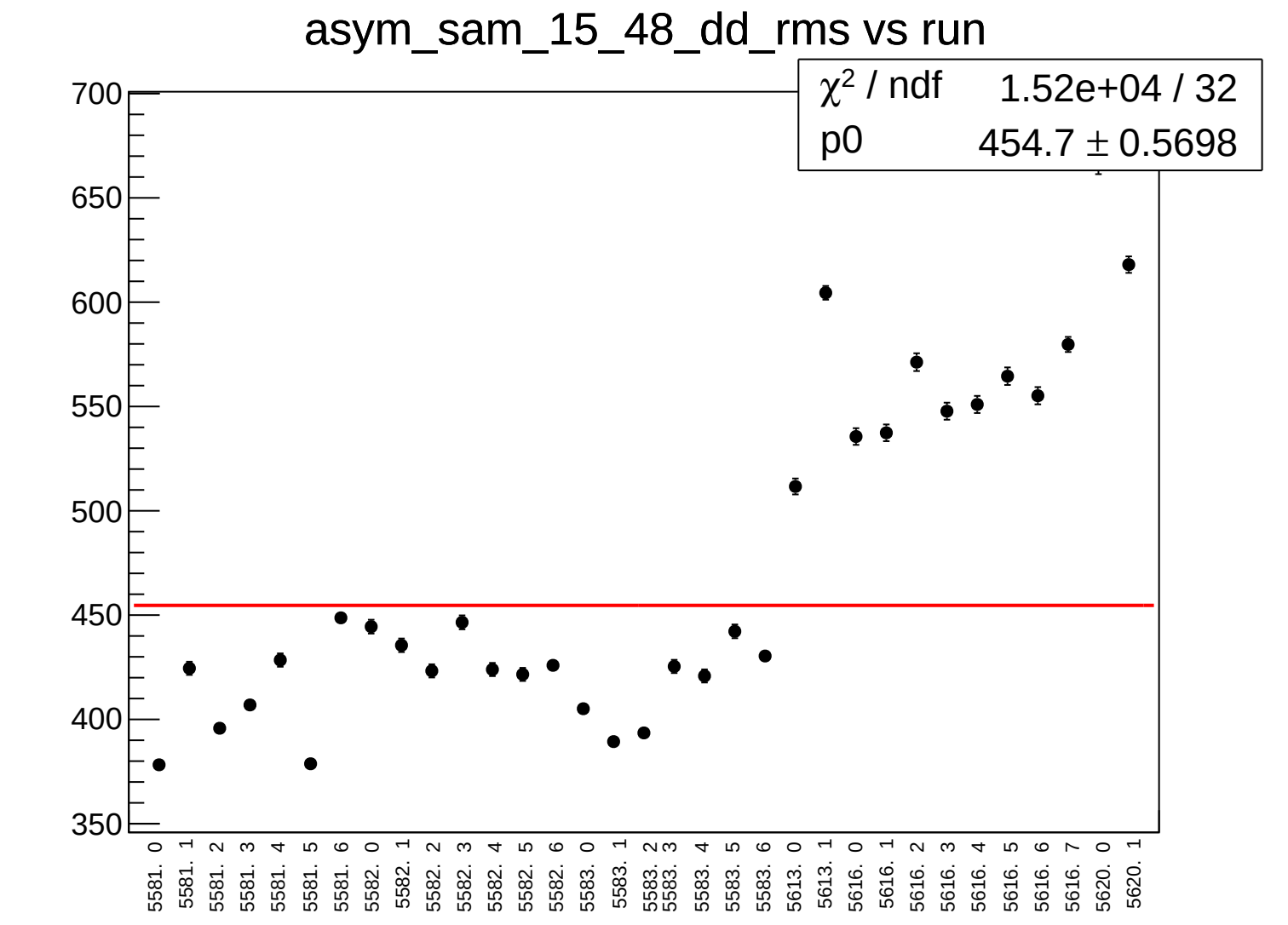

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 8.485e+04 / 32
p0 77.48 ± 0.1029
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

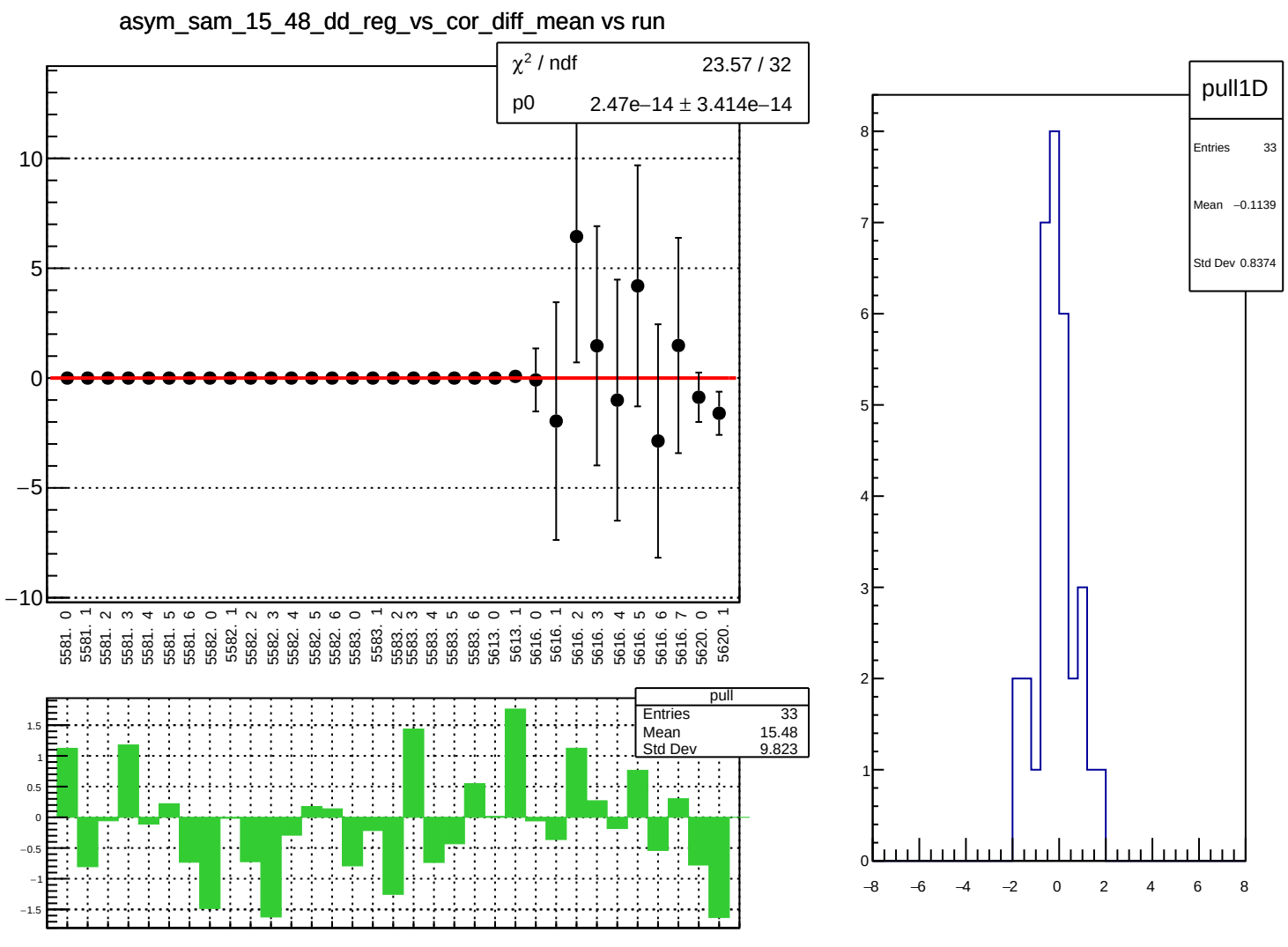

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 33.67 / 32
p0 1430 ± 791.4
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 32.4
Std Dev 43.15
2
1
0
−1
−2

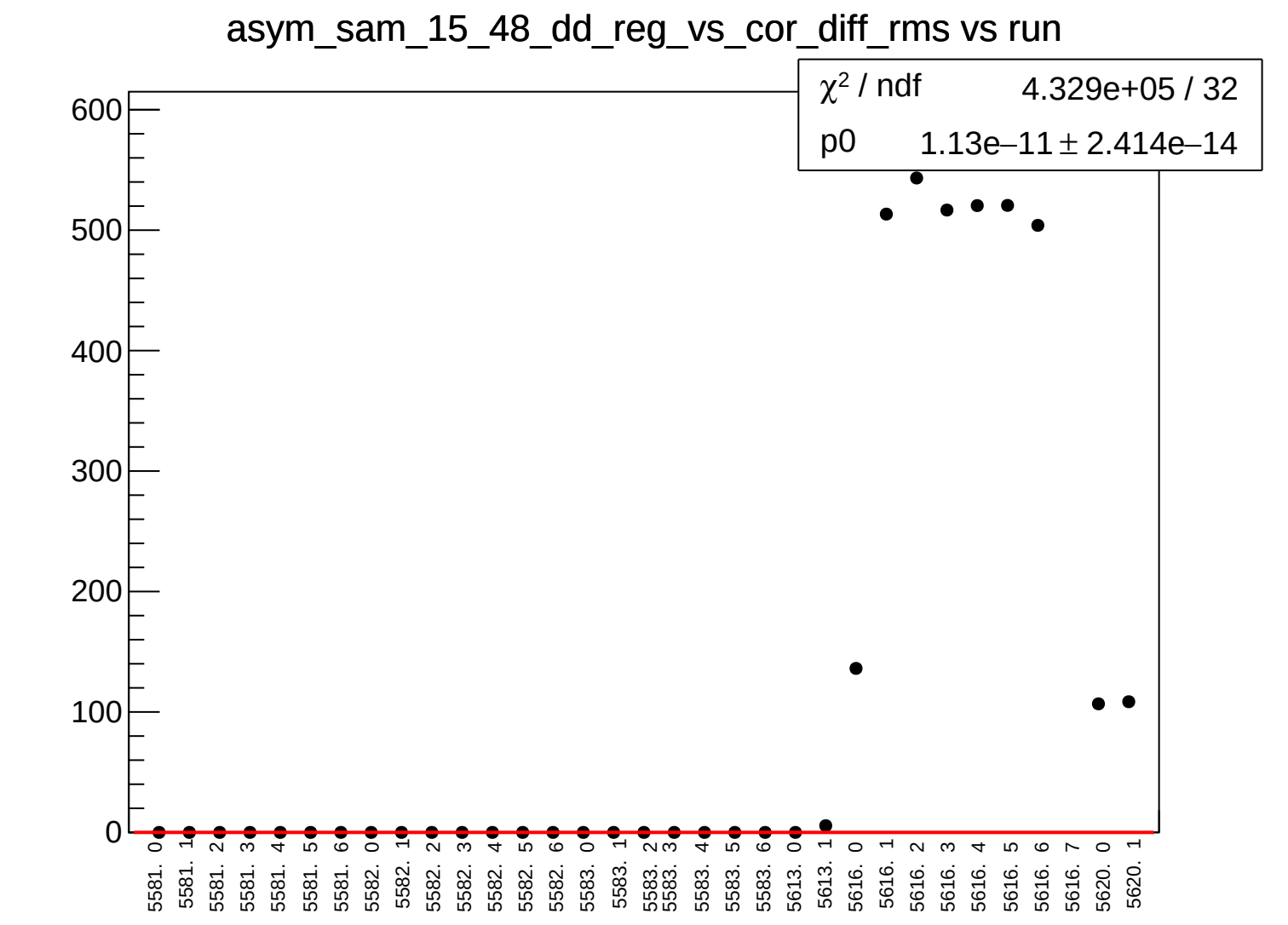

pull1D
Entries 33
Mean 0.0127
Std Dev 1.01
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

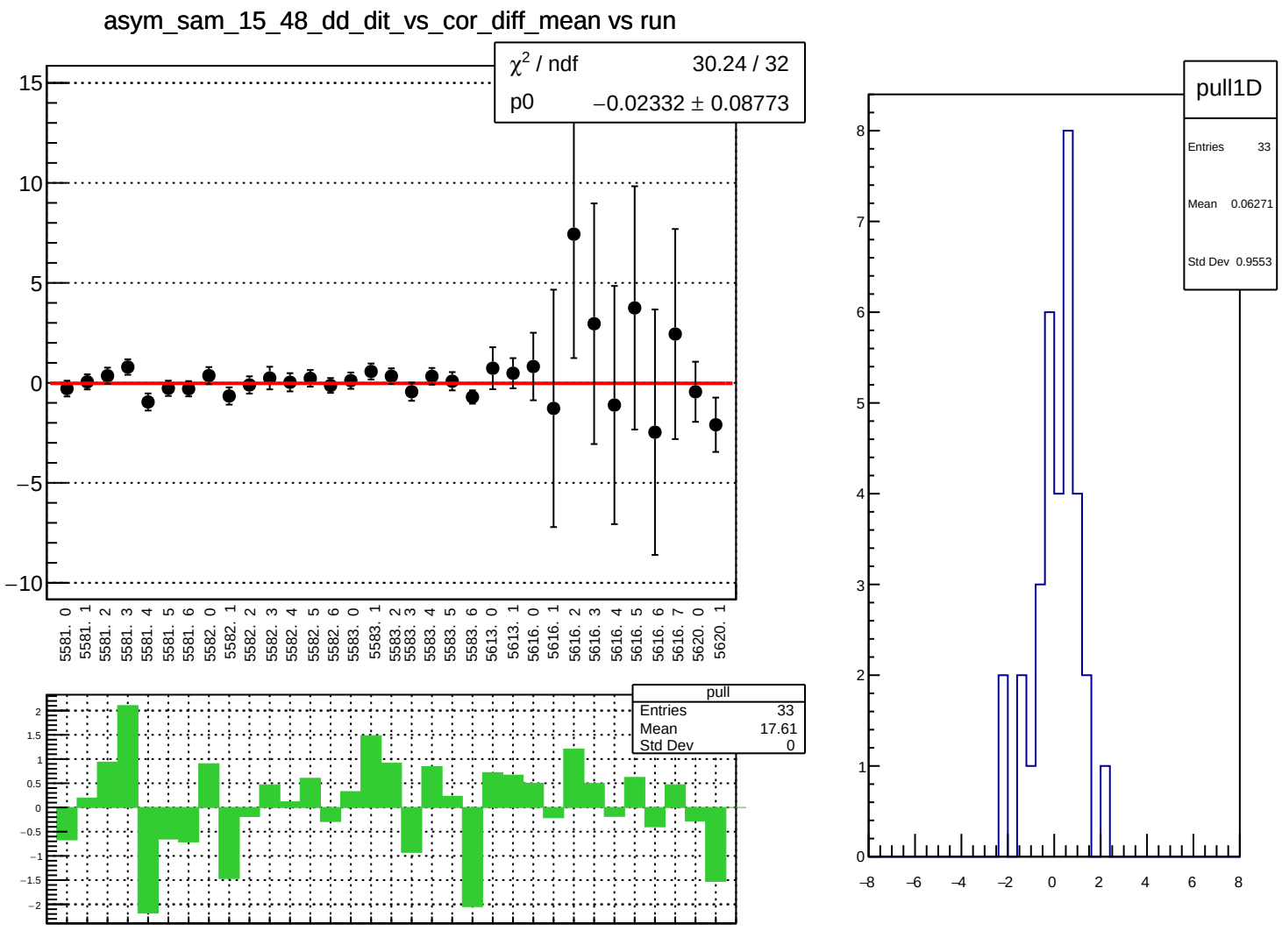

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.635e+04 / 32
p0 446.1 ± 0.5596
650
600
550
500
450
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

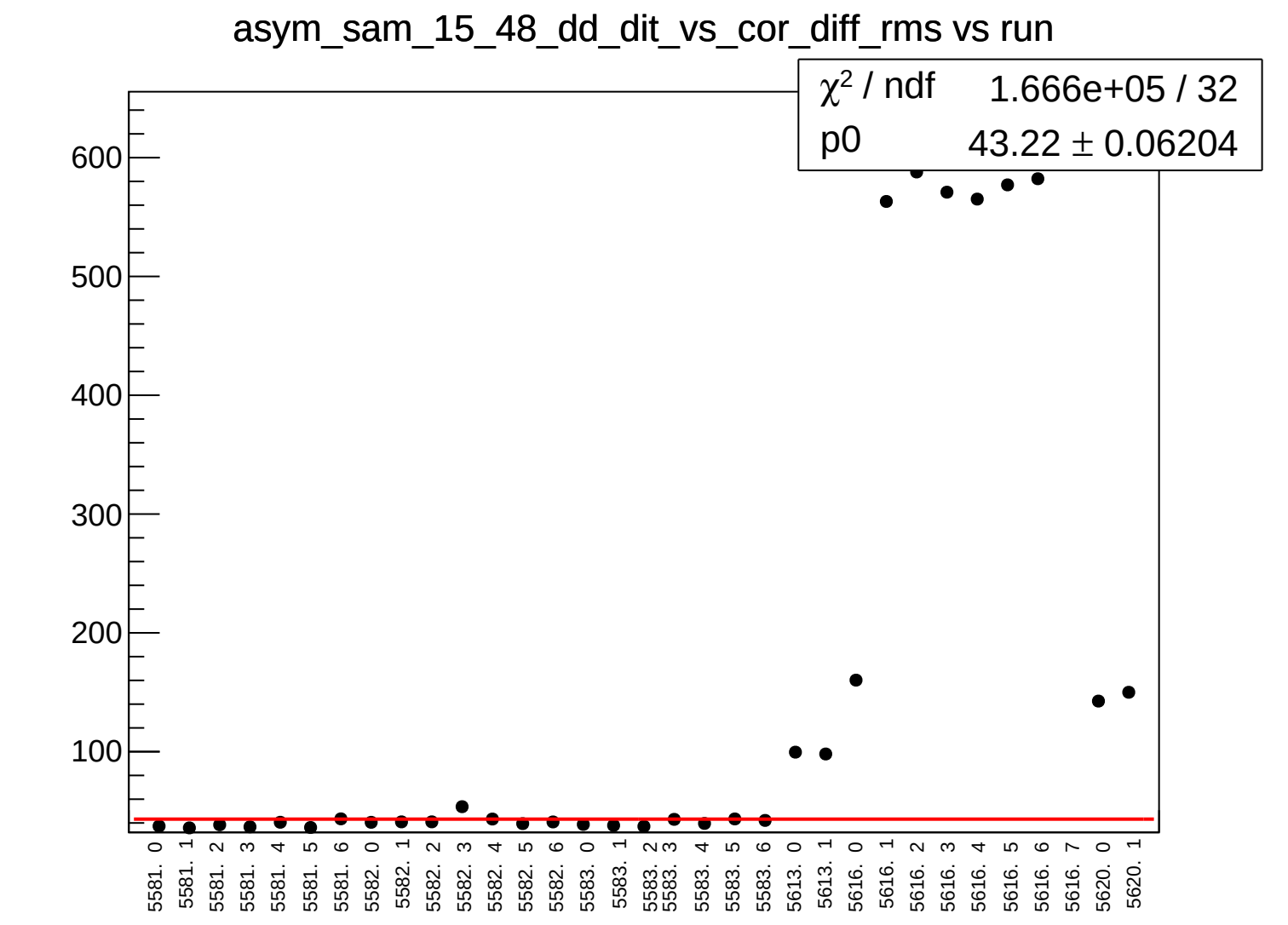

asym_sam_15_48_dd_mean vs run
χ² / ndf 35.96 / 32
p0 −1394 ± 805.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 8.644
Std Dev 0
pull1D
Entries 33
Mean 0.00441
Std Dev 1.044

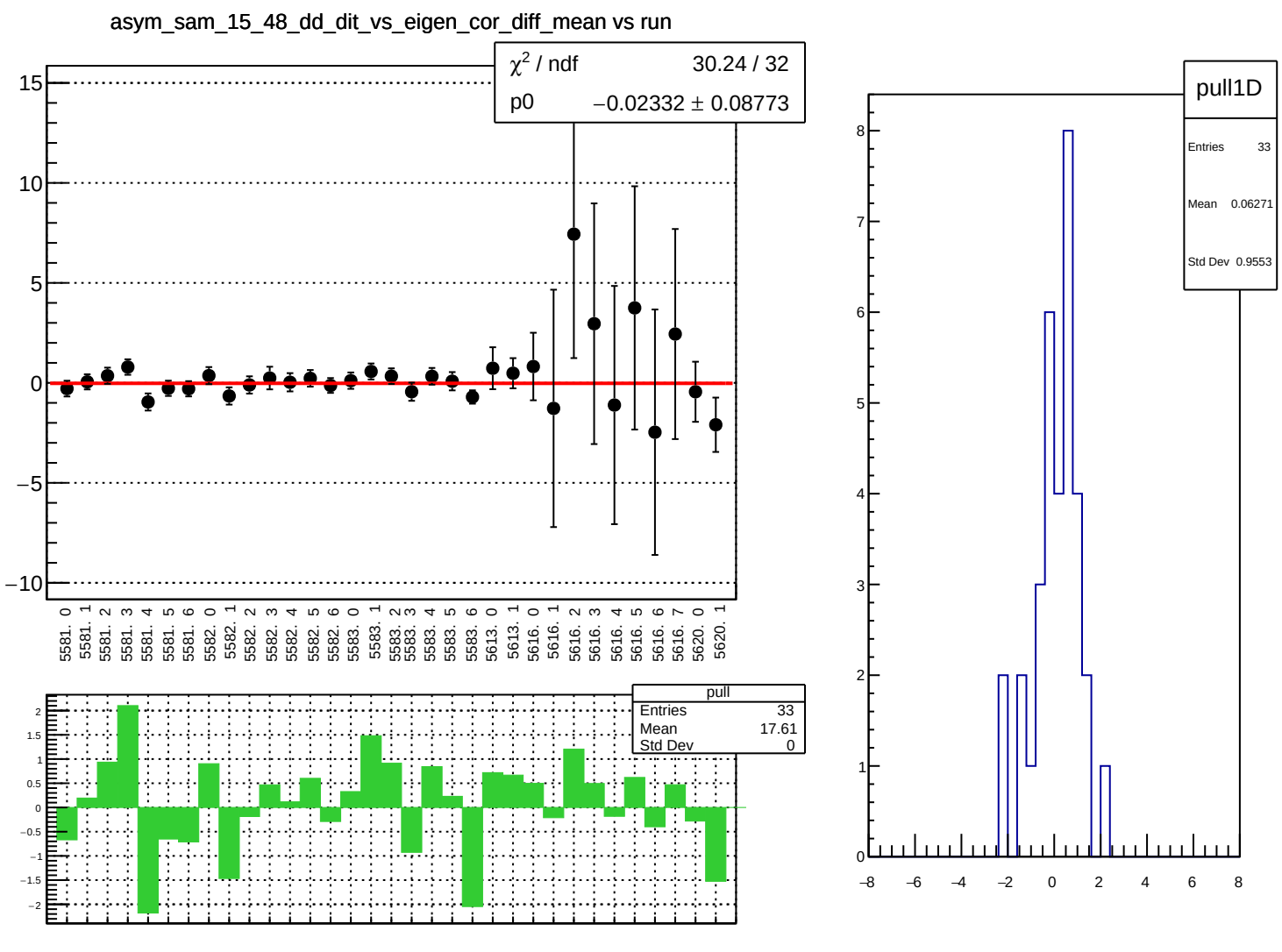

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.52e+04 / 32
p0 454.7 ± 0.5698
700
650
600
550
500
450
400
350
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

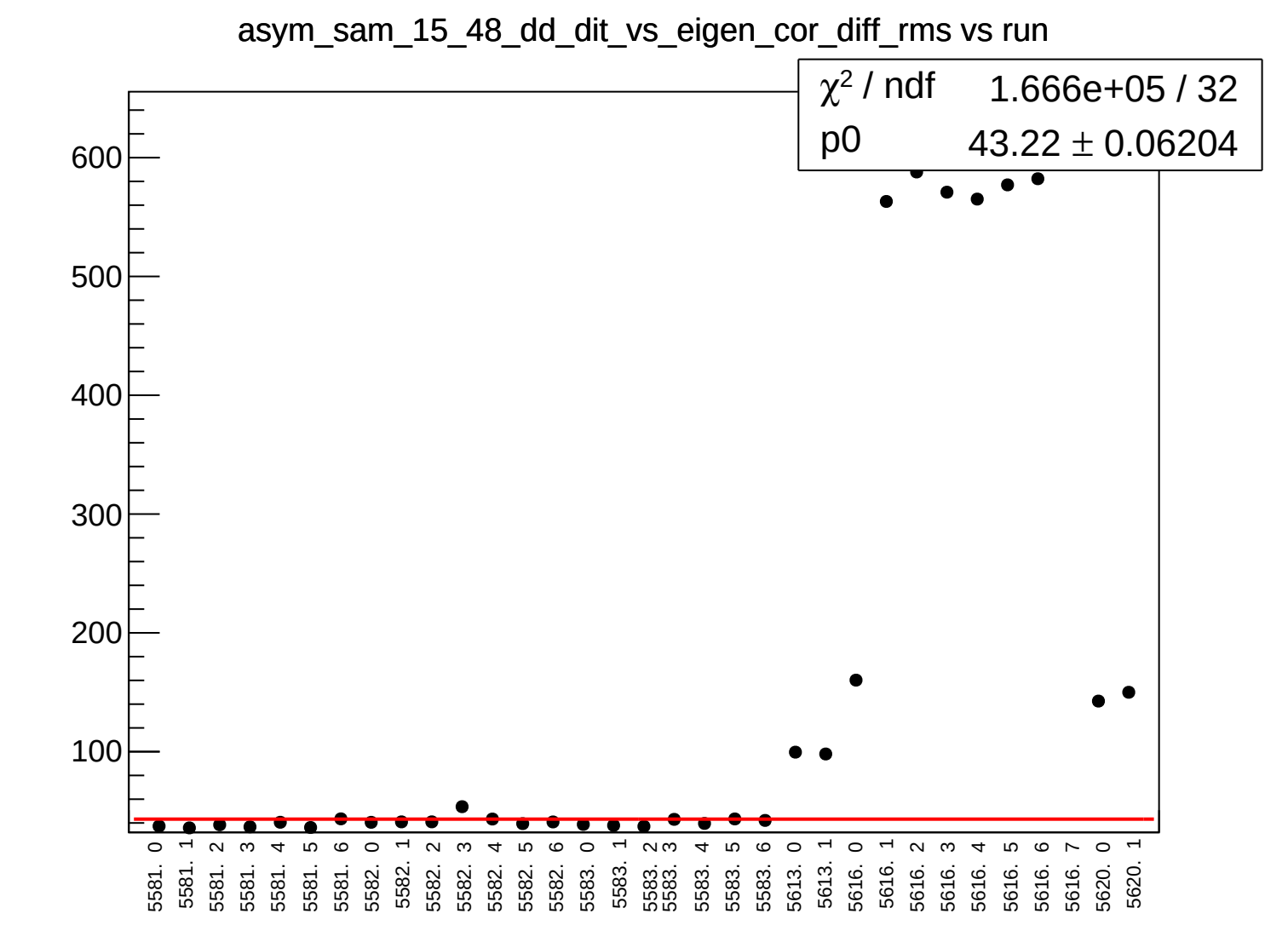

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 23.57 / 32
p0 2.47e−14 ± 3.414e−14
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 15.48
Std Dev 9.823
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1139
Std Dev 0.8374
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

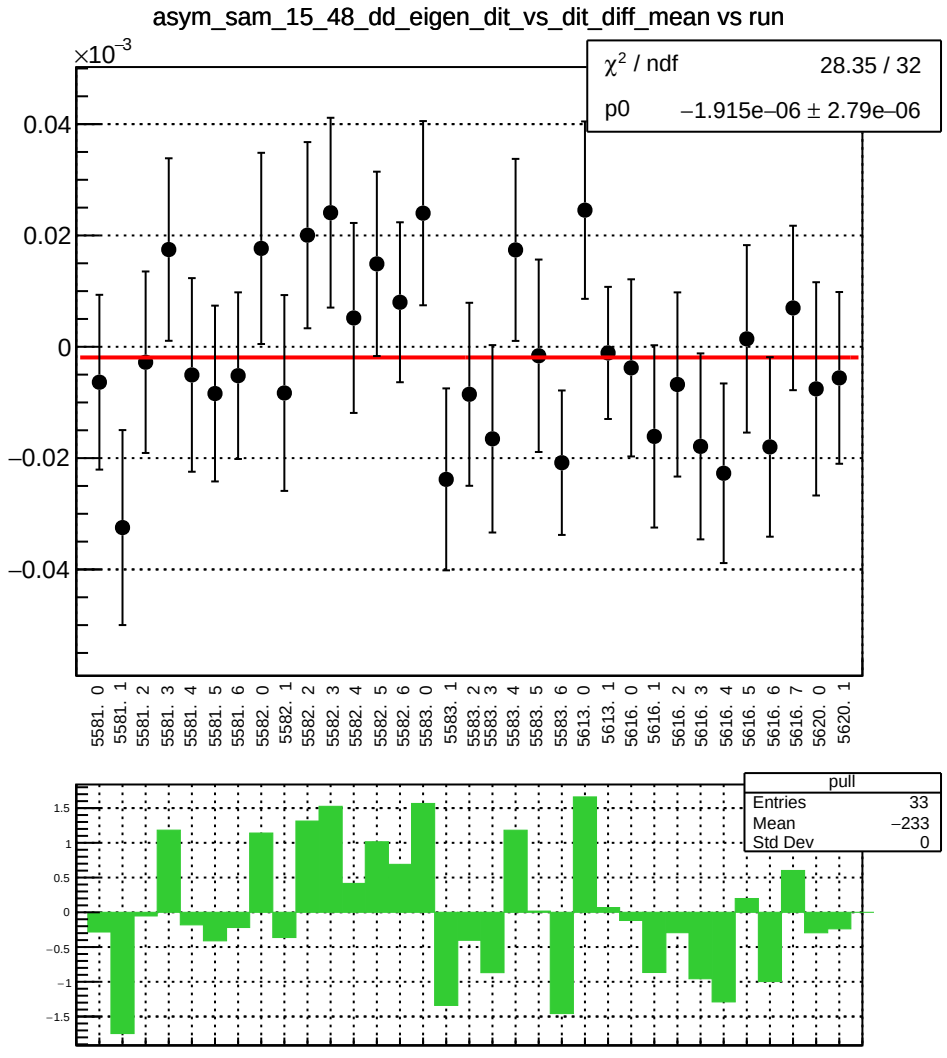

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.329e+05 / 32
p0 1.13e−11 ± 2.414e−14
600
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

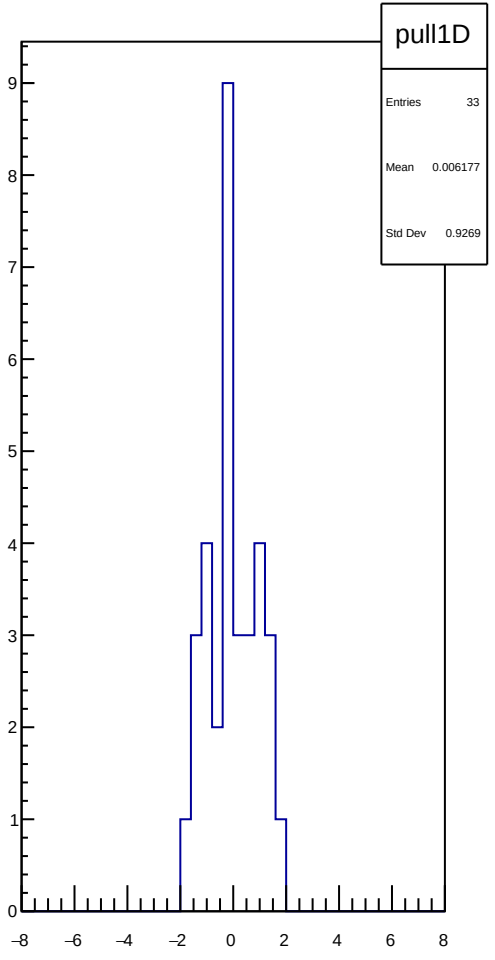

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 30.24 / 32
p0 −0.02332 ± 0.08773
15
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.06271
Std Dev 0.9553
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

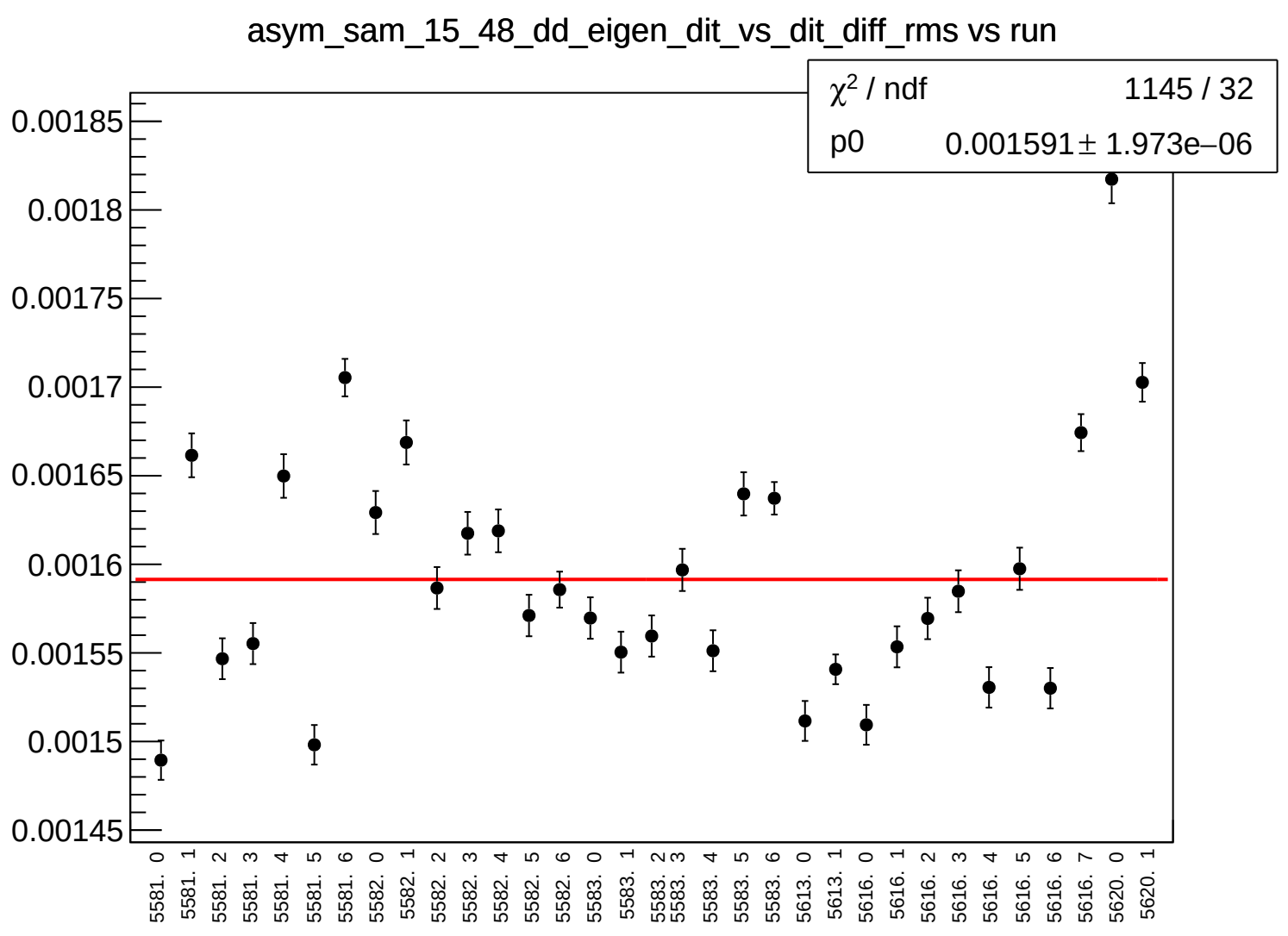

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.666e+05 / 32
p0 43.22 ± 0.06204
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

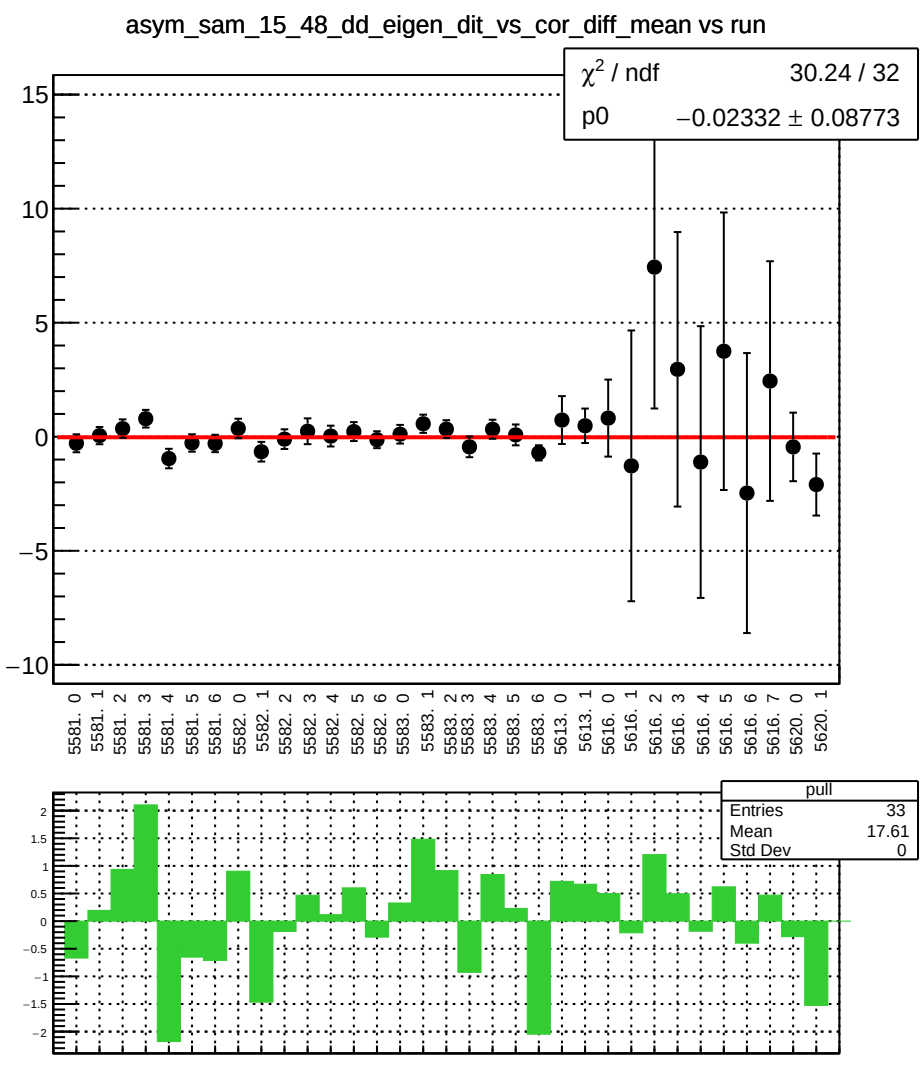

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.24 / 32
p0 −0.02332 ± 0.08773
15
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.06271
Std Dev 0.9553
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

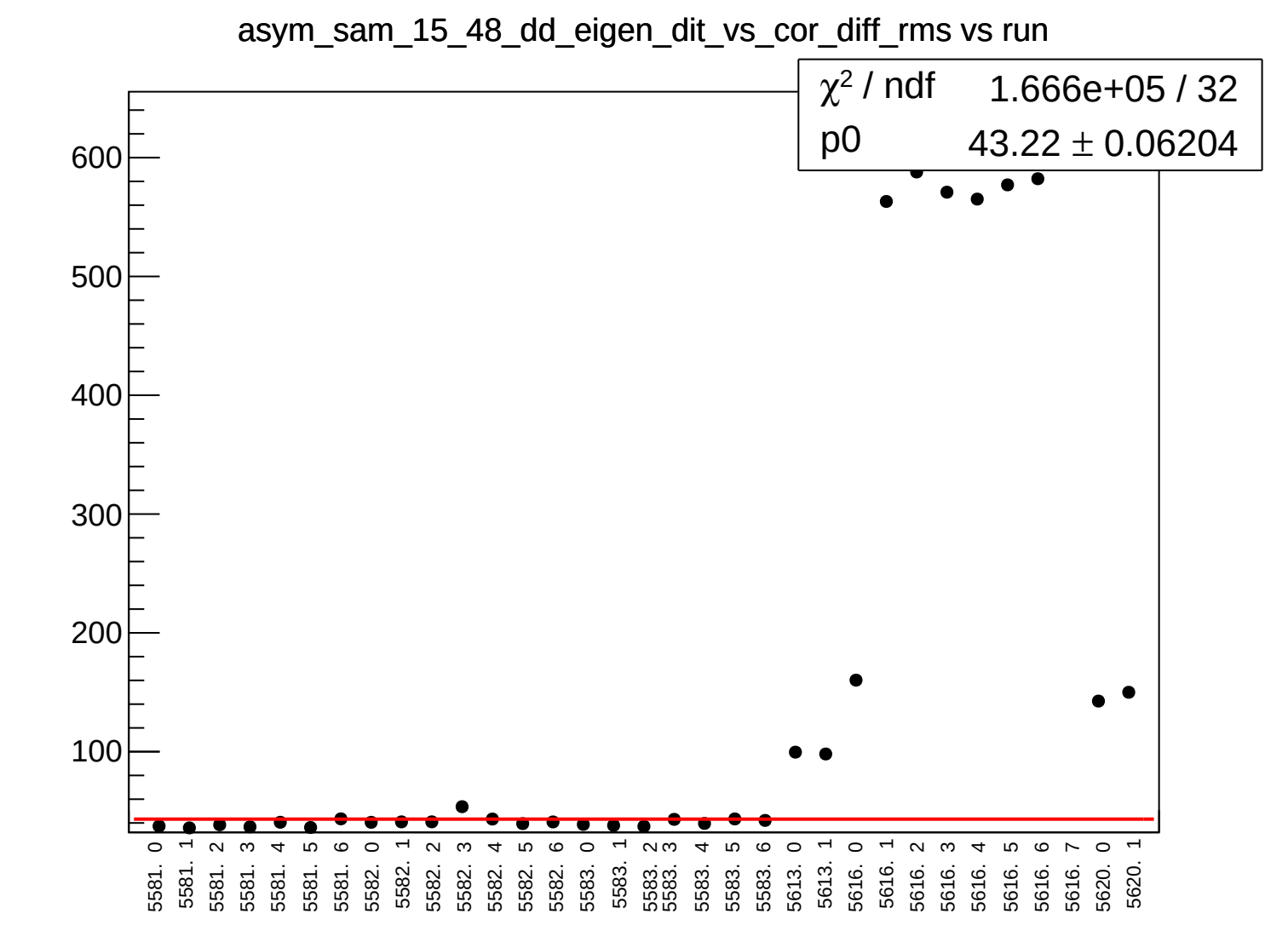

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.666e+05 / 32
p0 43.22 ± 0.06204
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

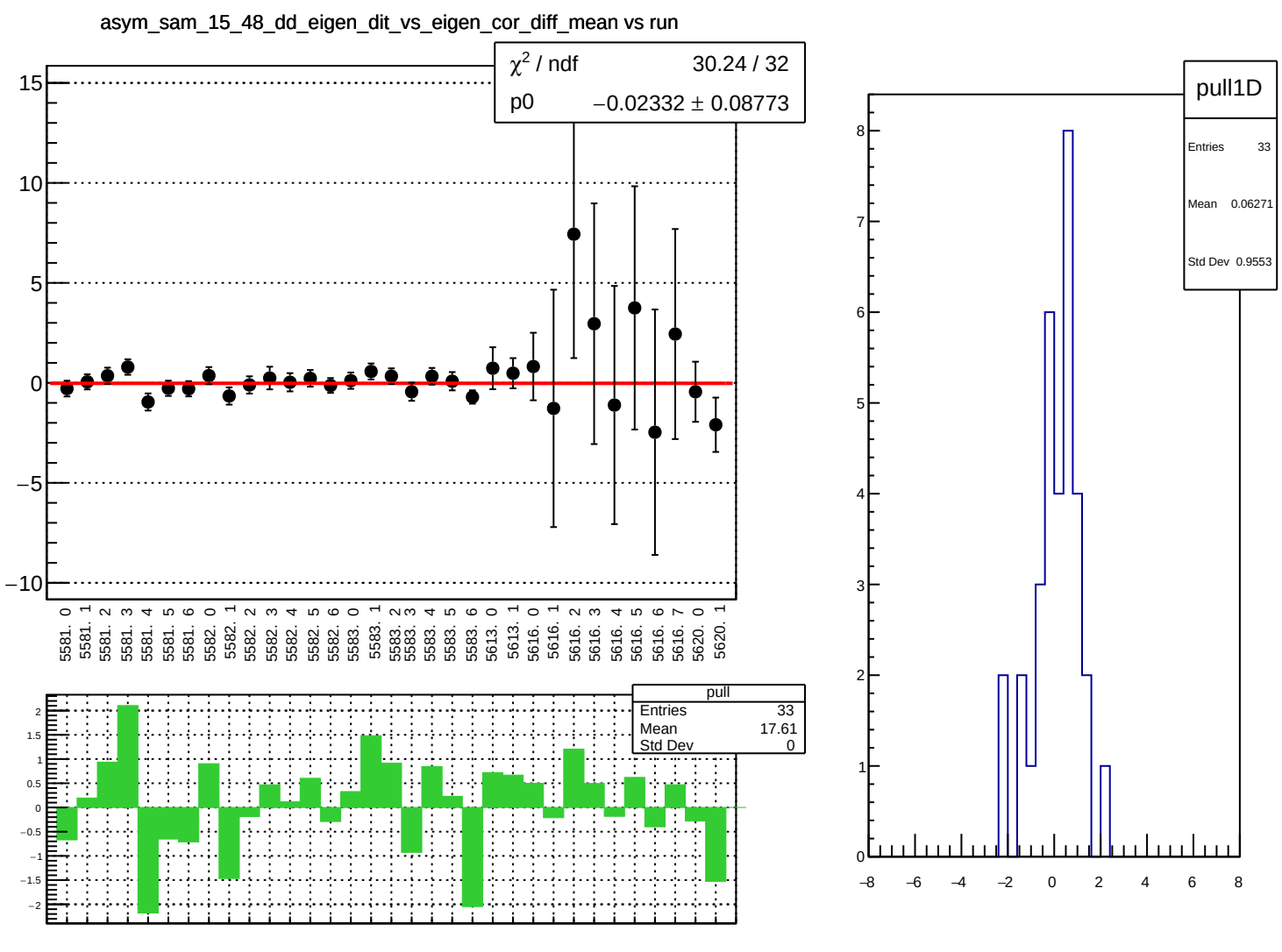

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 28.35 / 32
p0 −1.915e−06 ± 2.79e−06
0.04
0.02
0
−0.02
−0.04
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −233
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

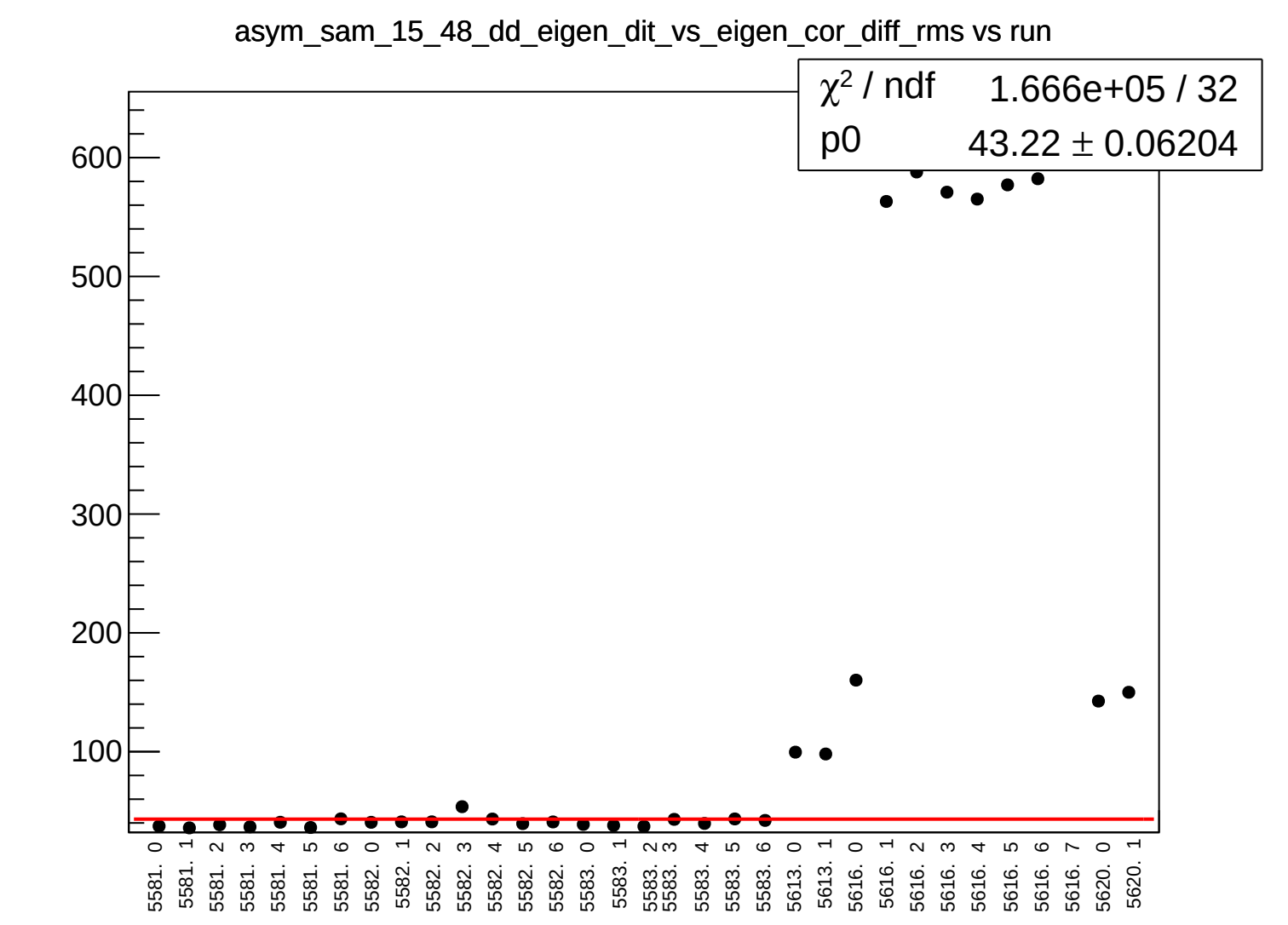

pull1D
Entries 33
Mean 0.006177
Std Dev 0.9269
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

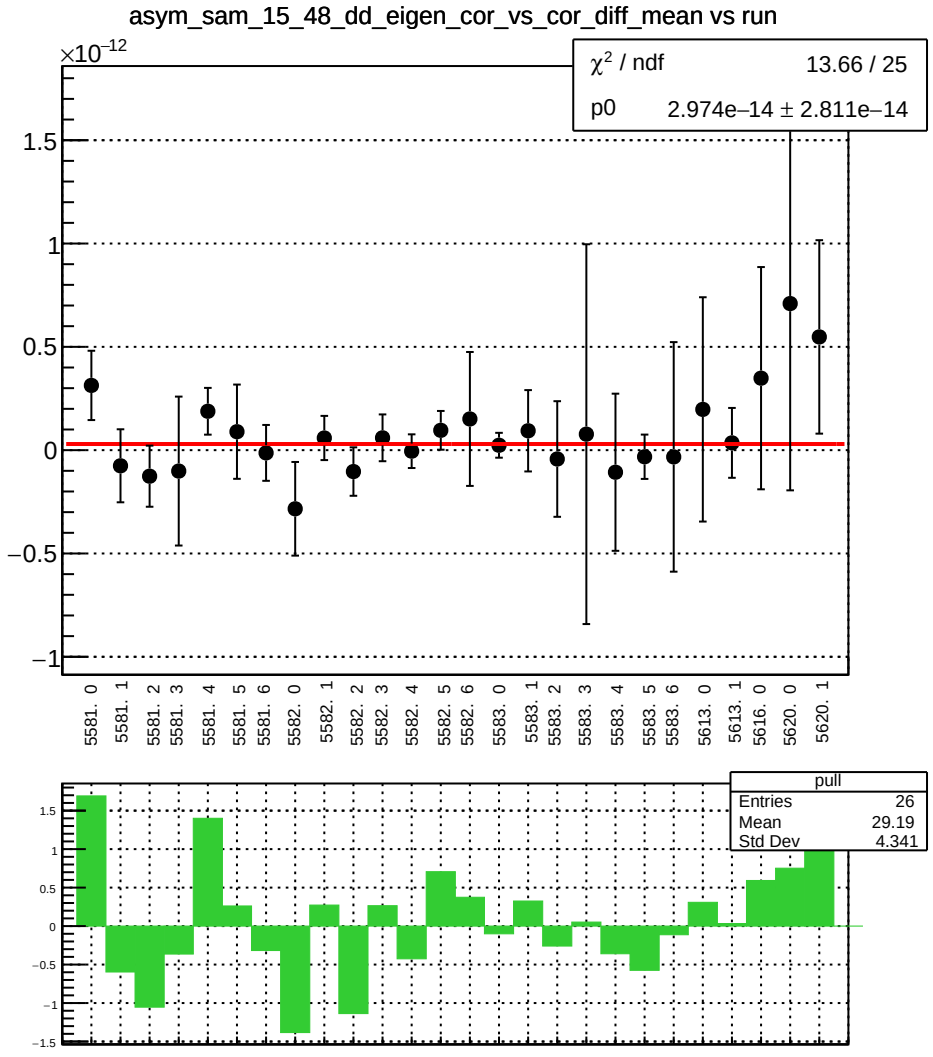

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1145 / 32
p0 0.001591 ± 1.973e−06
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

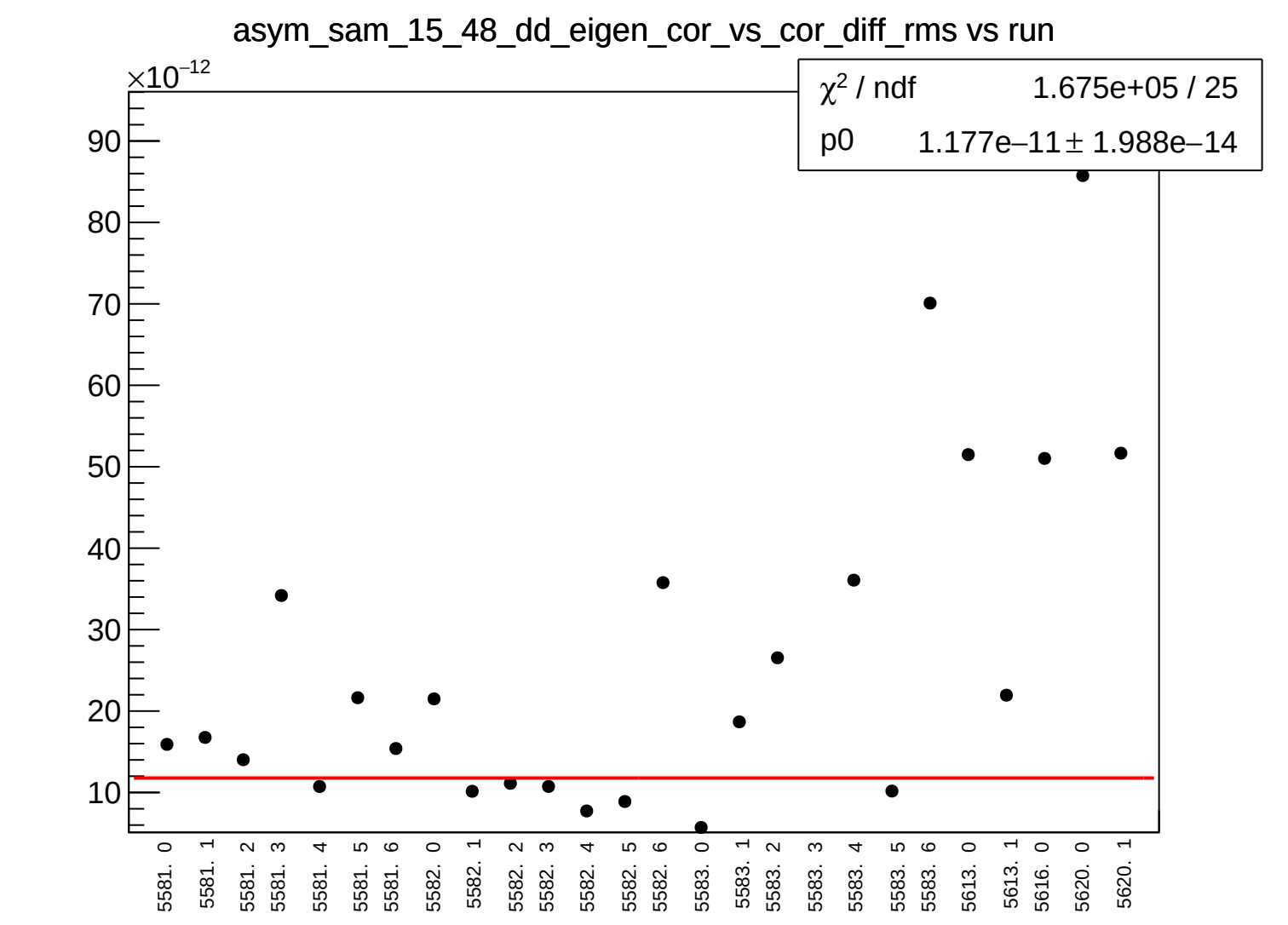

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 30.24 / 32
p0 −0.02332 ± 0.08773
15
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.06271
Std Dev 0.9553
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

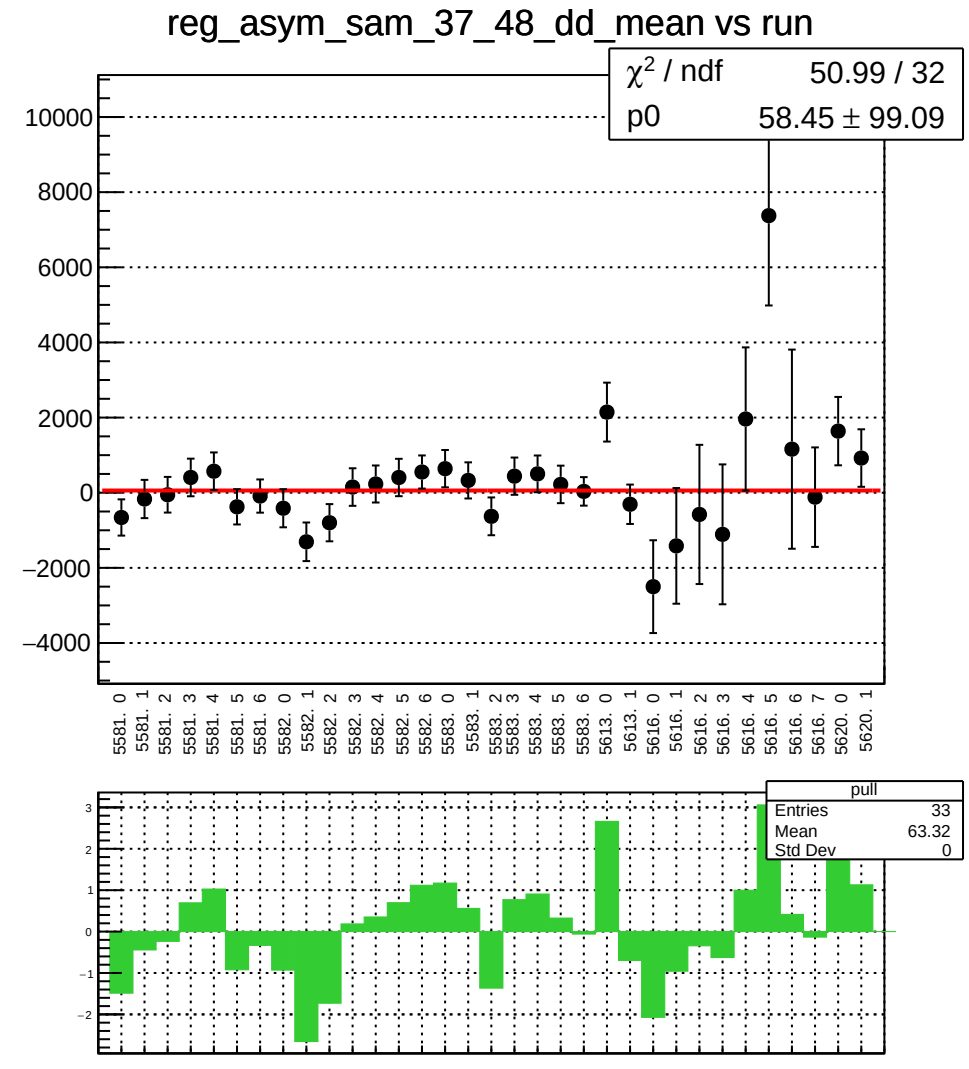

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.666e+05 / 32
p0 43.22 ± 0.06204
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

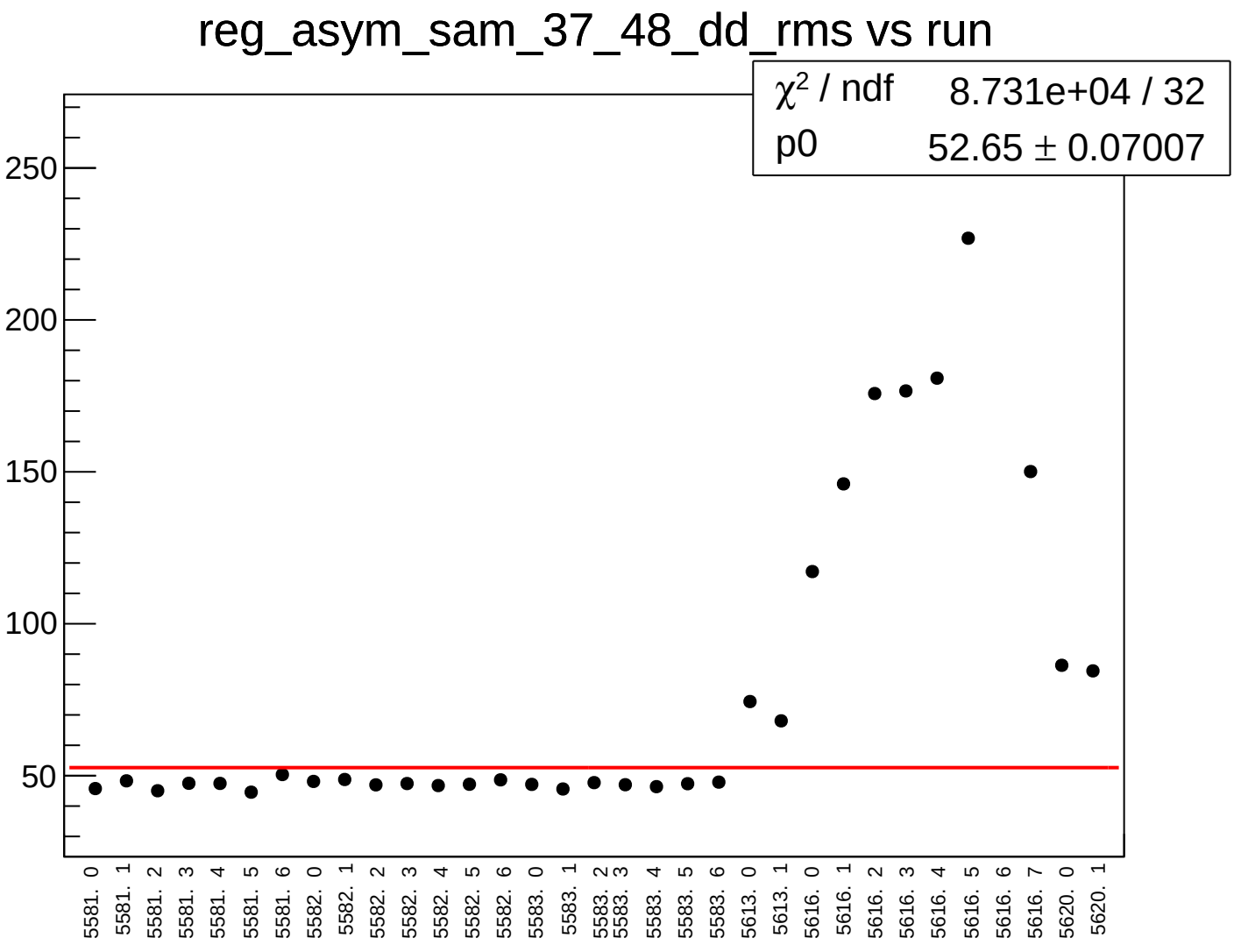

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 30.24 / 32
p0 −0.02332 ± 0.08773
15
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.06271
Std Dev 0.9553
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

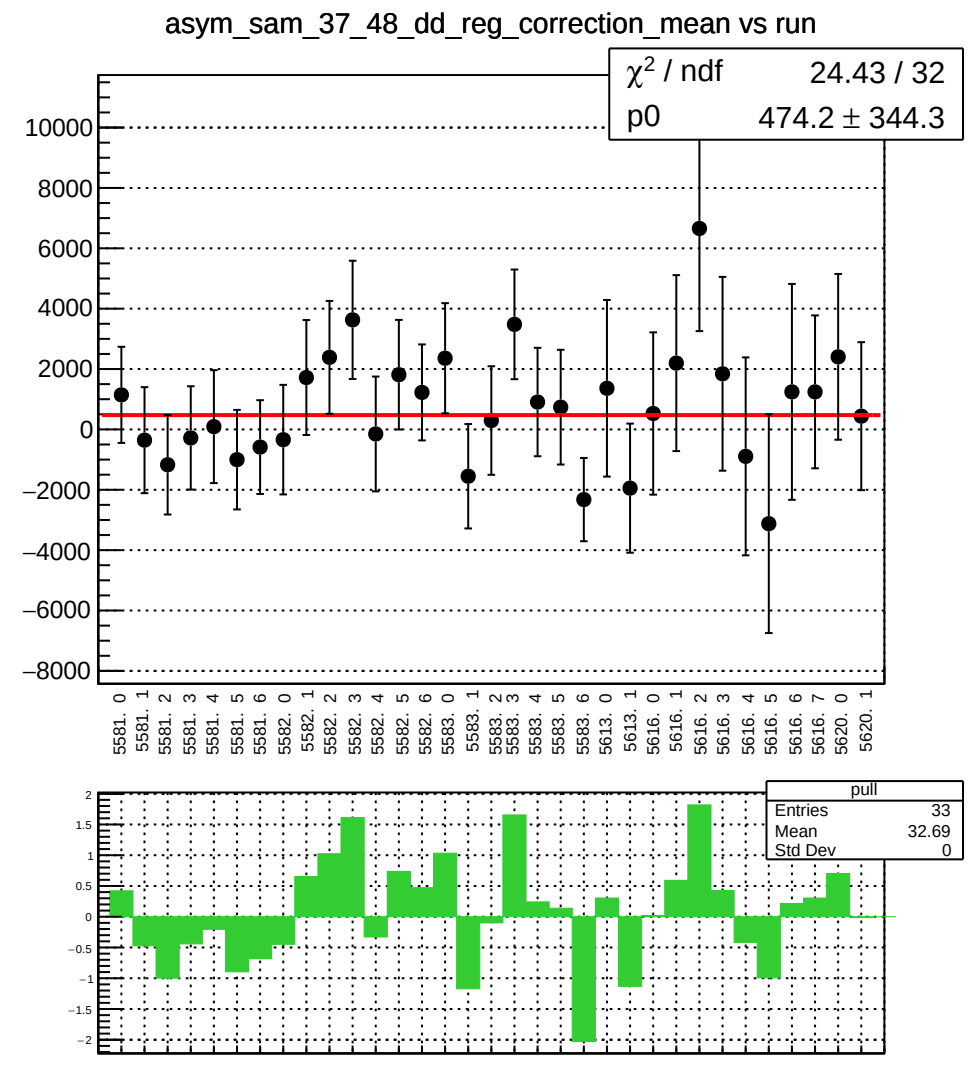

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.666e+05 / 32
p0 43.22 ± 0.06204
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

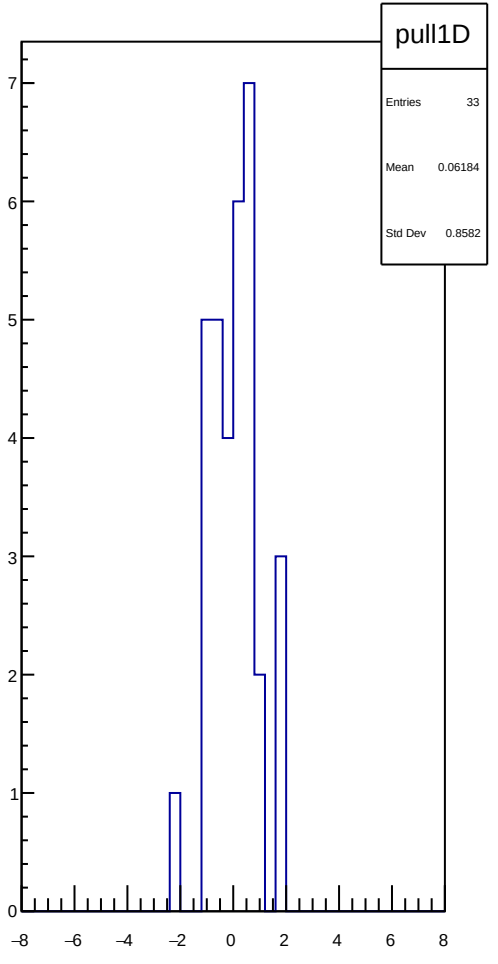

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 13.66 / 25
p0 2.974e−14 ± 2.811e−14
1.5
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 29.19
Std Dev 4.341
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean 0.05623
Std Dev 0.7225
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

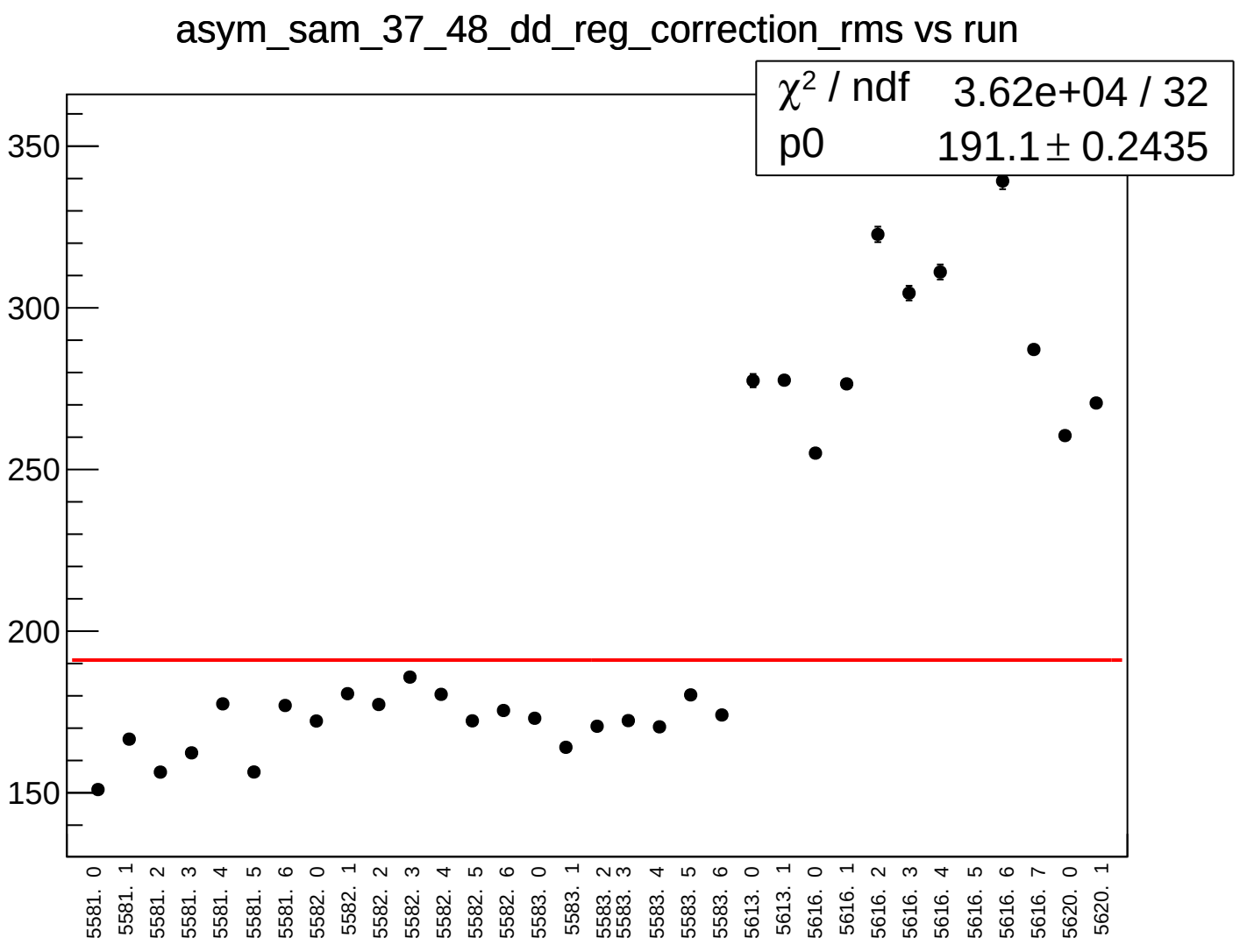

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.675e+05 / 25
p0 1.177e−11 ± 1.988e−14
90
80
70
60
50
40
30
20
10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

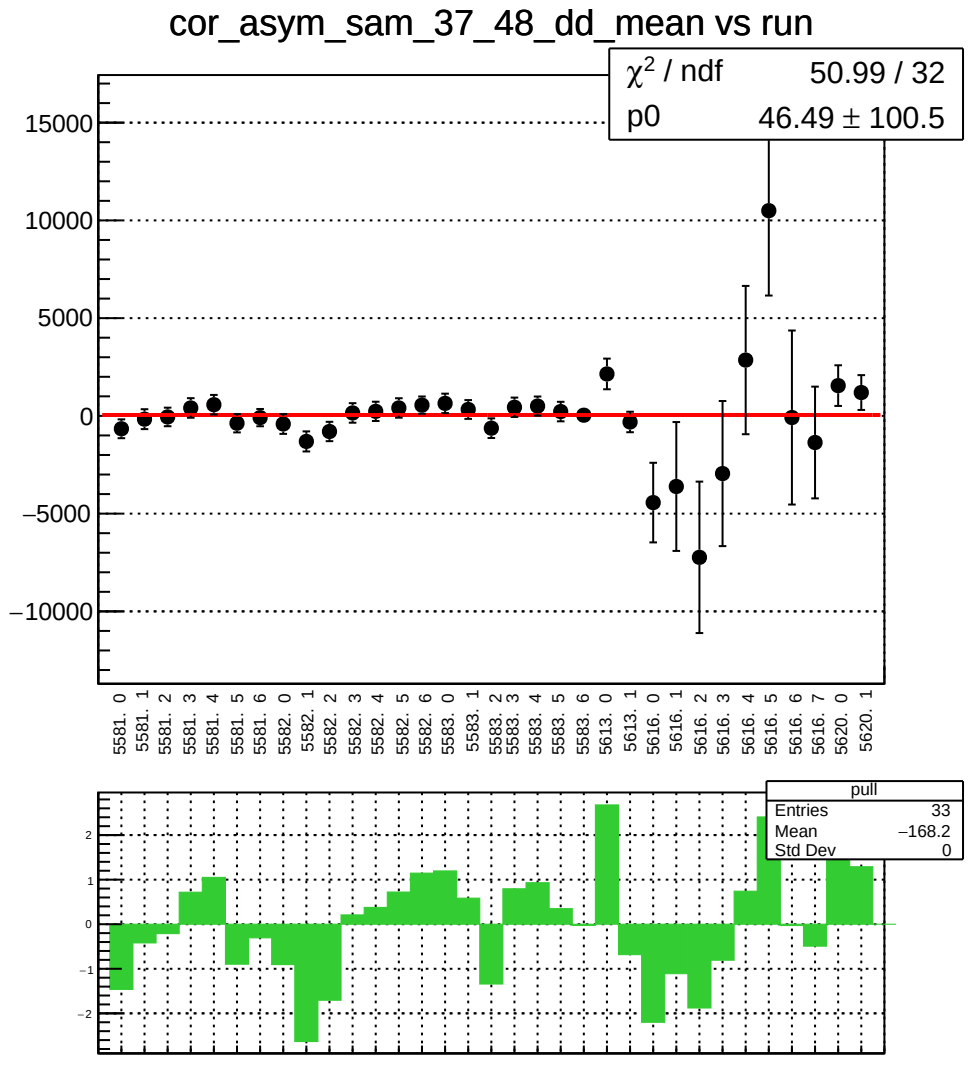

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 50.99 / 32
p0 58.45 ± 99.09
10000
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 63.32
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.08541
Std Dev 1.24
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

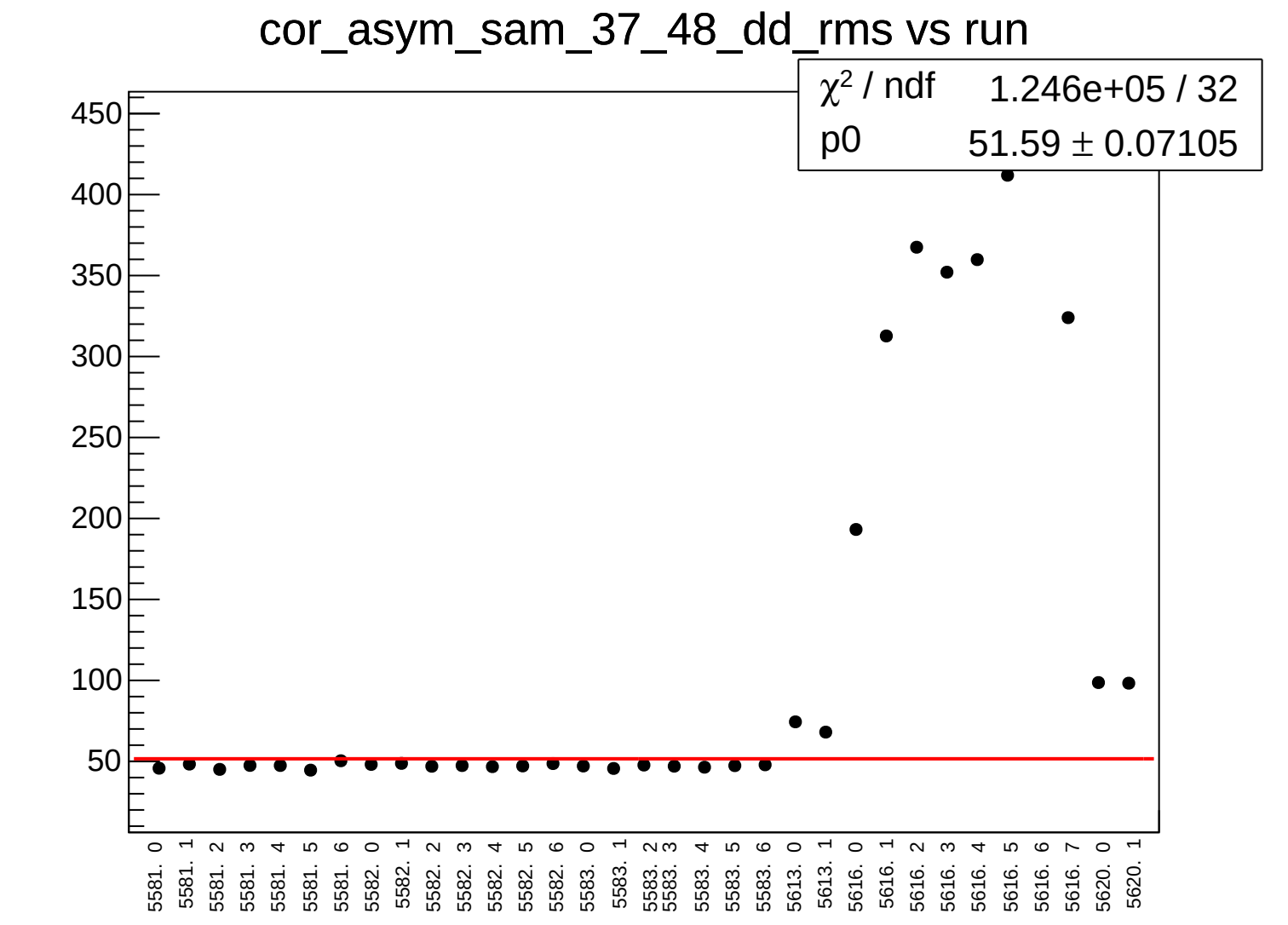

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 8.731e+04 / 32
p0 52.65 ± 0.07007
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

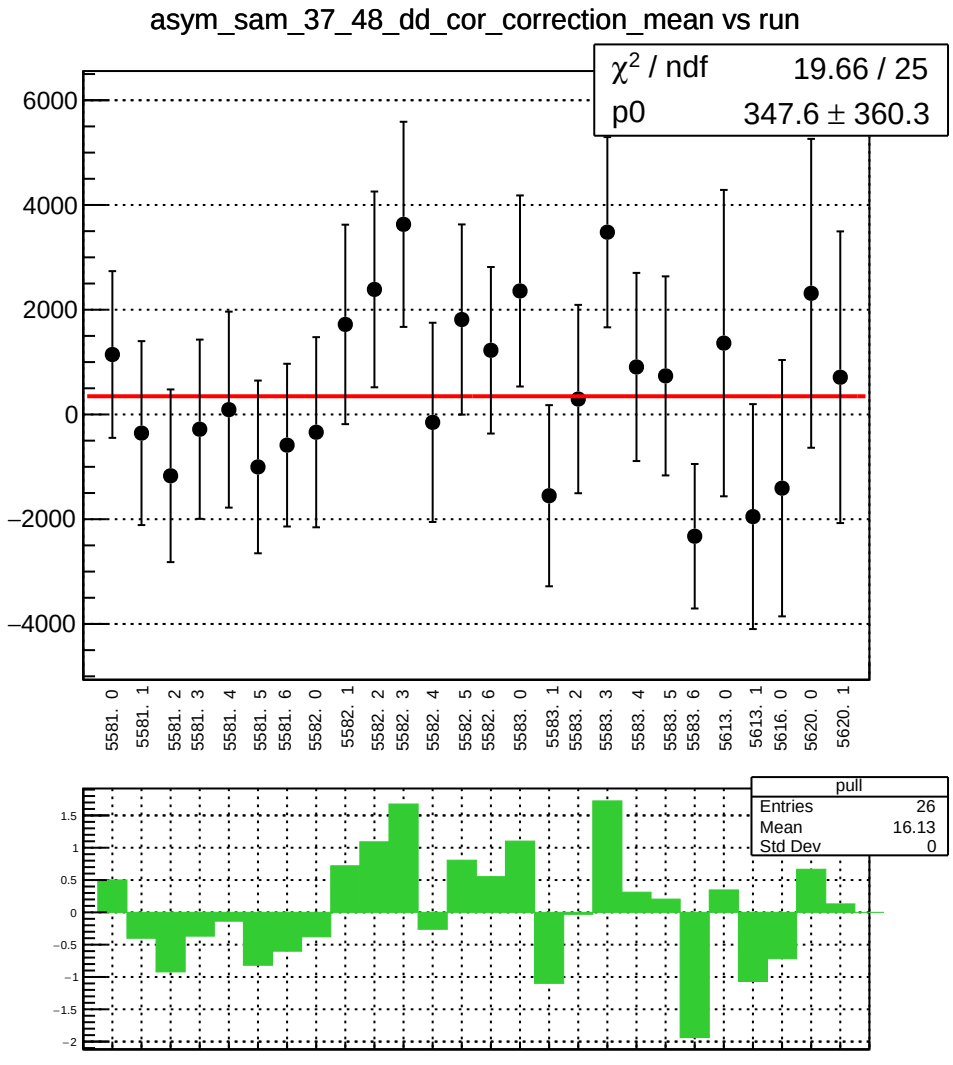

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 24.43 / 32
p0 474.2 ± 344.3
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 32.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

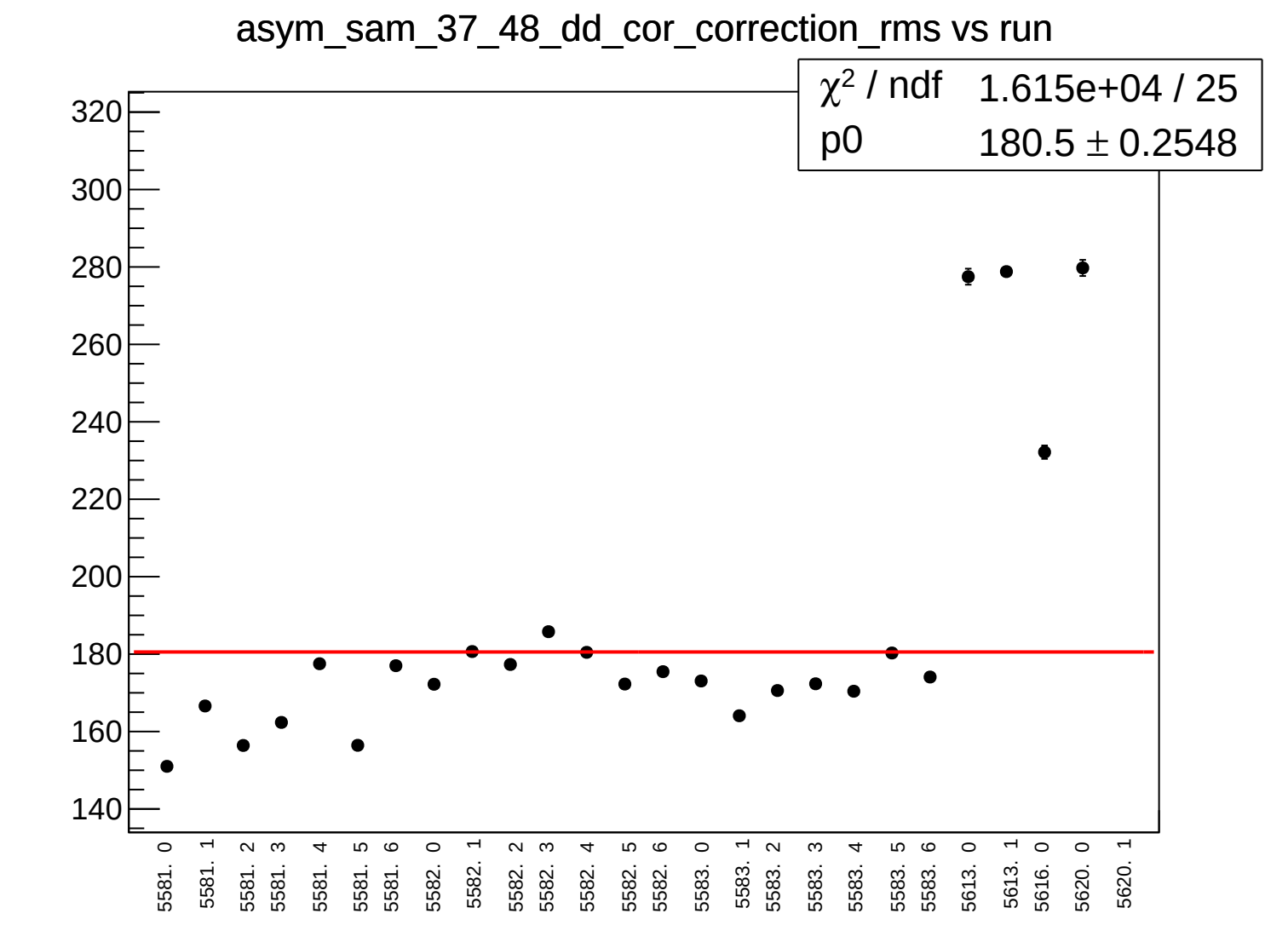

pull1D
Entries 33
Mean 0.06184
Std Dev 0.8582
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

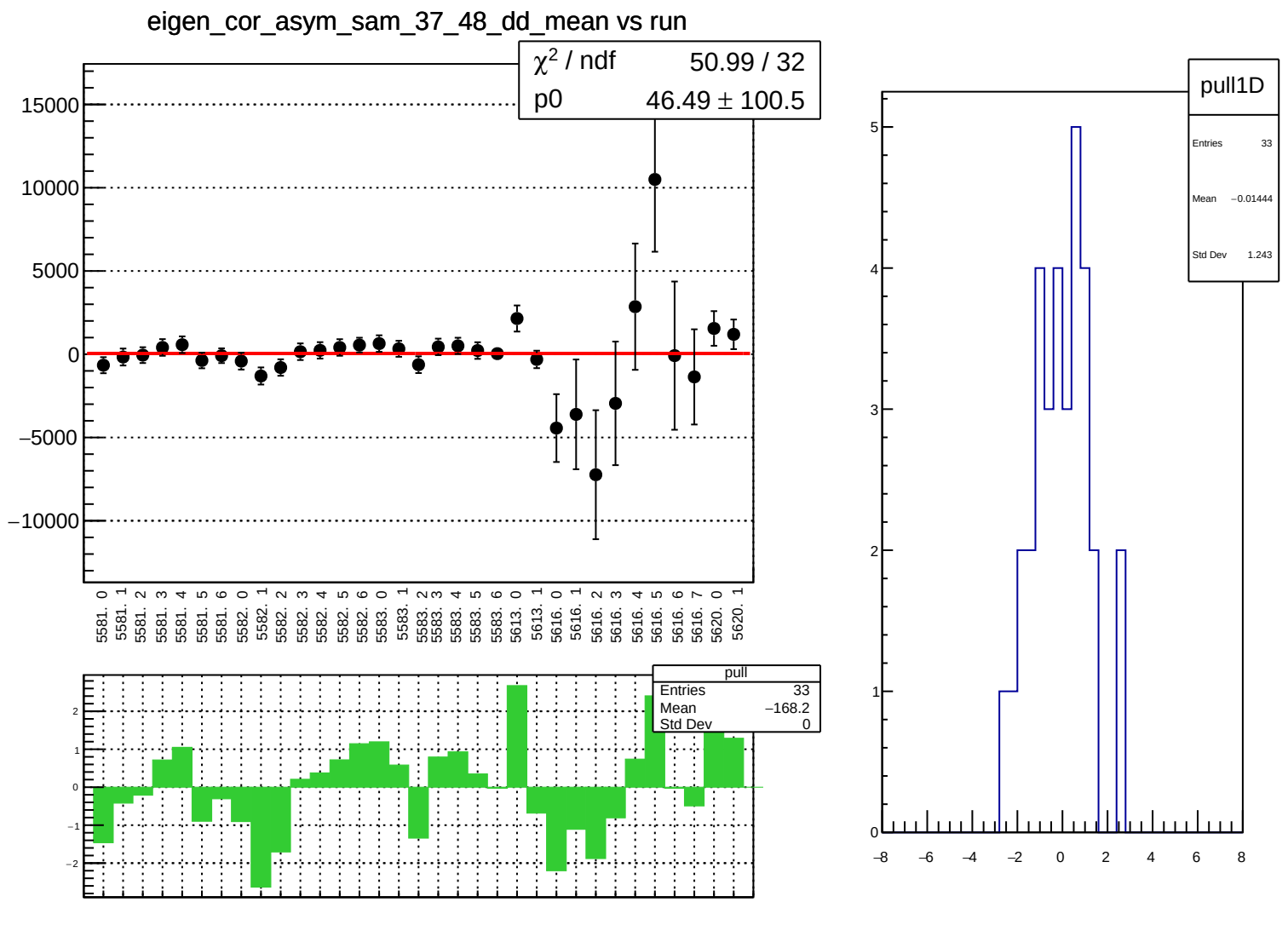

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 3.62e+04 / 32
p0 191.1 ± 0.2435
350
300
250
200
150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

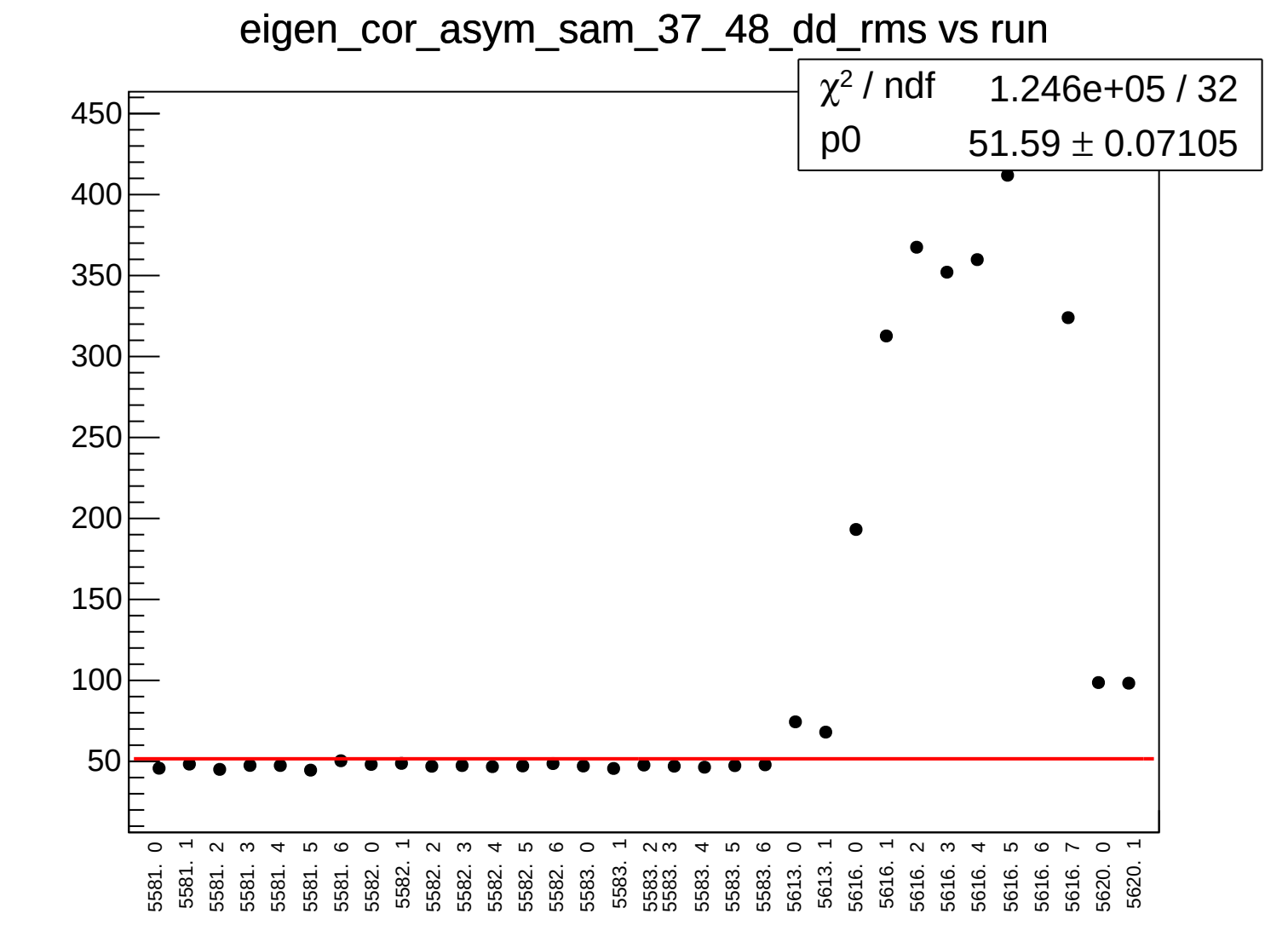

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 50.99 / 32
p0 46.49 ± 100.5
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −168.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.01444
Std Dev 1.243
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

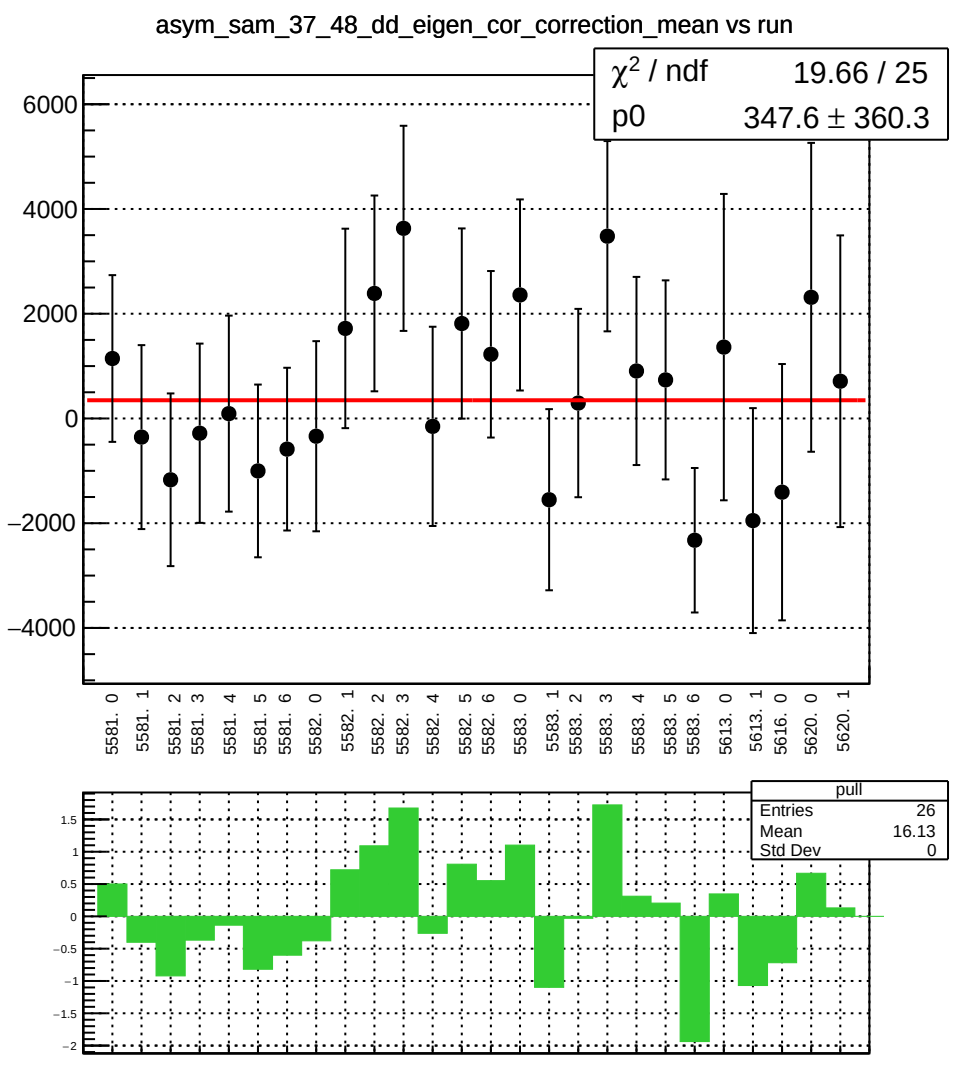

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.246e+05 / 32
p0 51.59 ± 0.07105
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

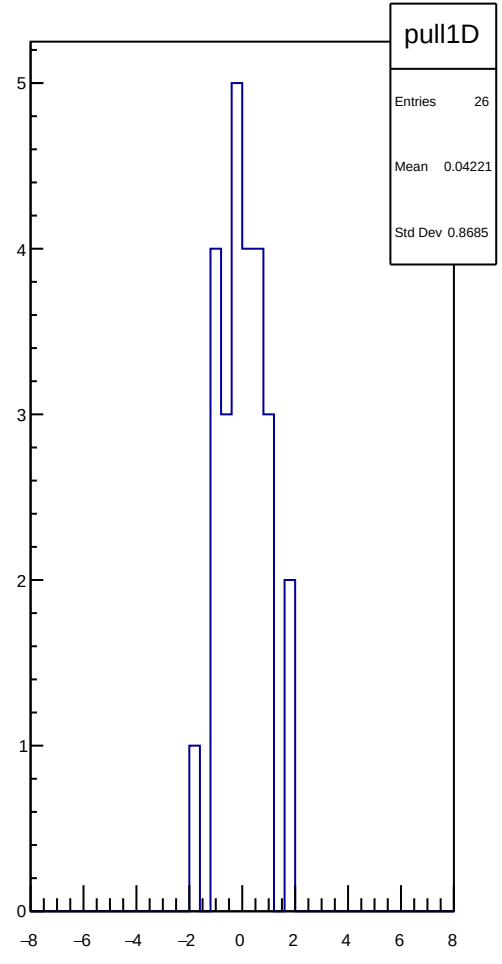

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 19.66 / 25
p0 347.6 ± 360.3
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 16.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean 0.04221
Std Dev 0.8685
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

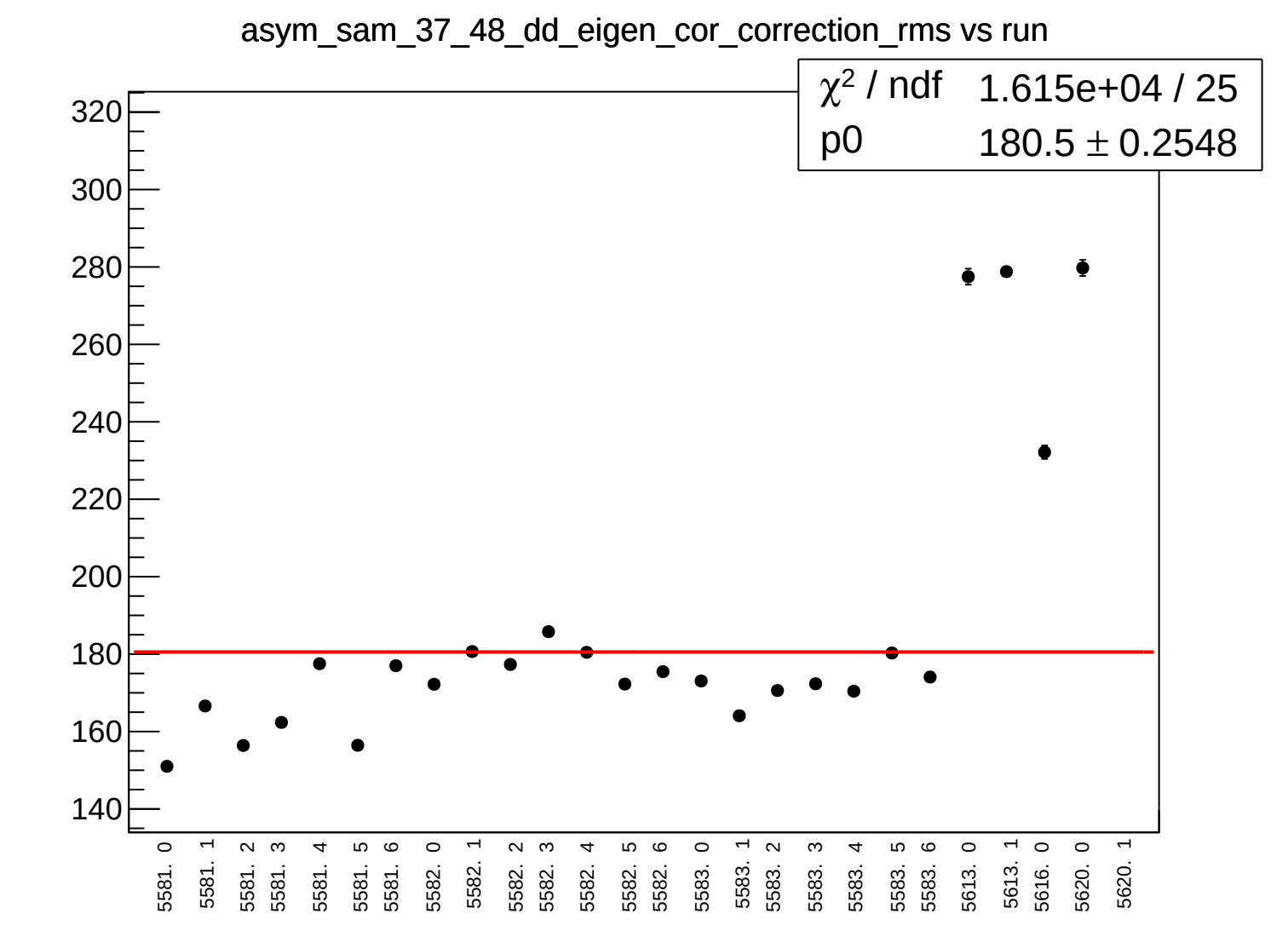

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1.615e+04 / 25
p0 180.5 ± 0.2548
320
300
280
260
240
220
200
180
160
140
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

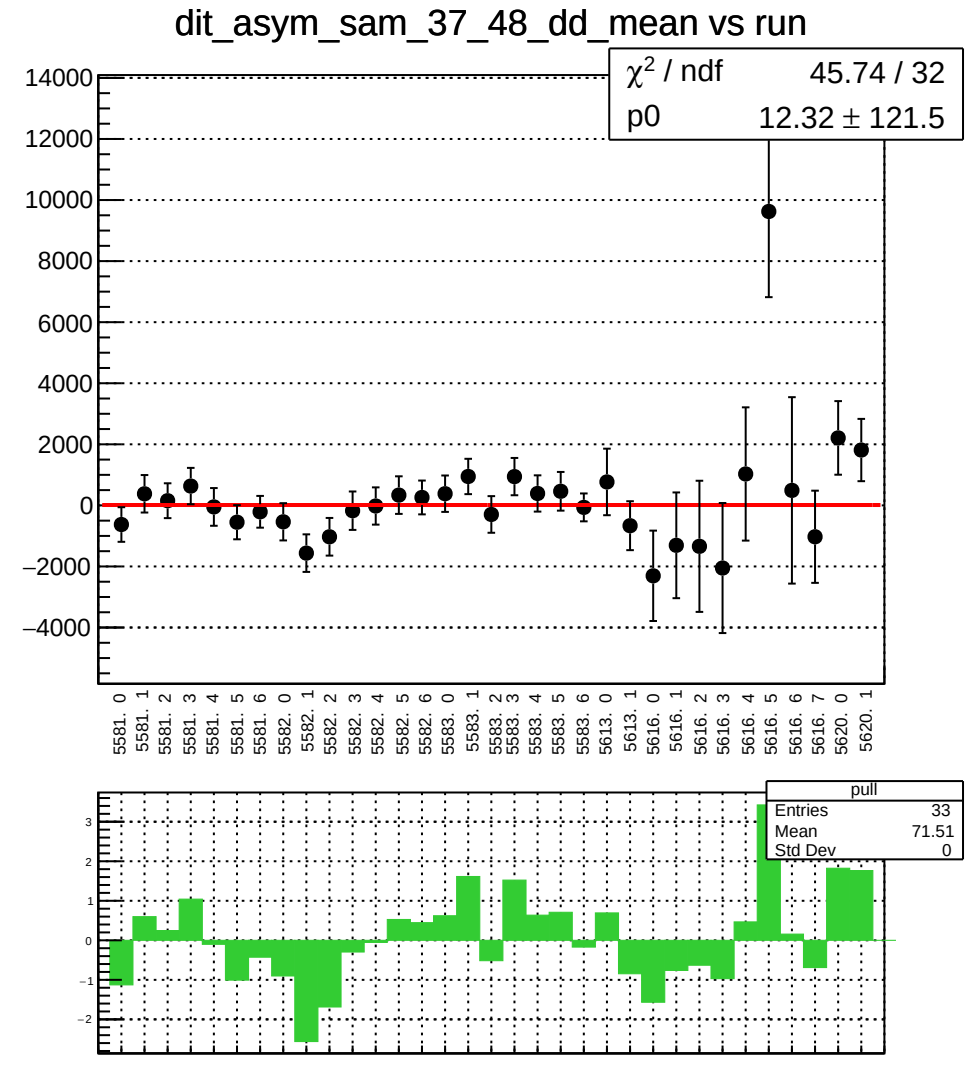

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 50.99 / 32
p0 46.49 ± 100.5
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −168.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.01444
Std Dev 1.243
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

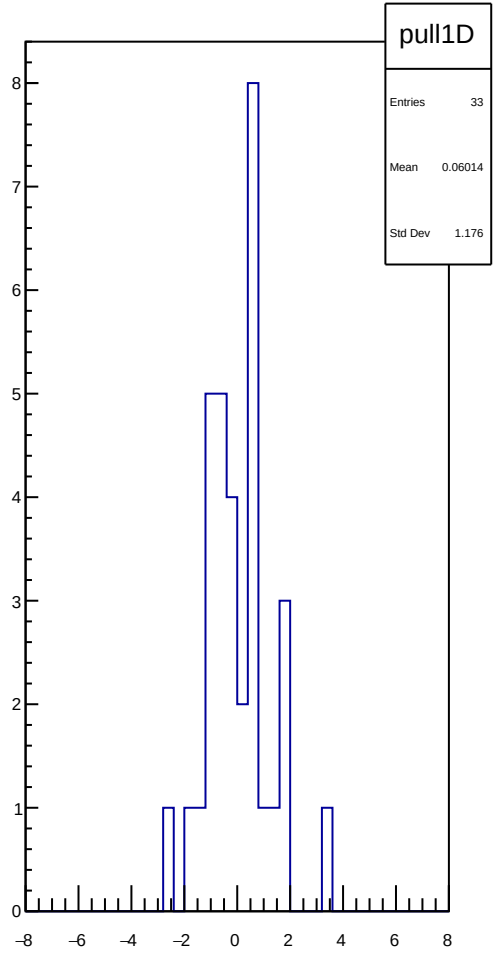

eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.246e+05 / 32
p0 51.59 ± 0.07105
450
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

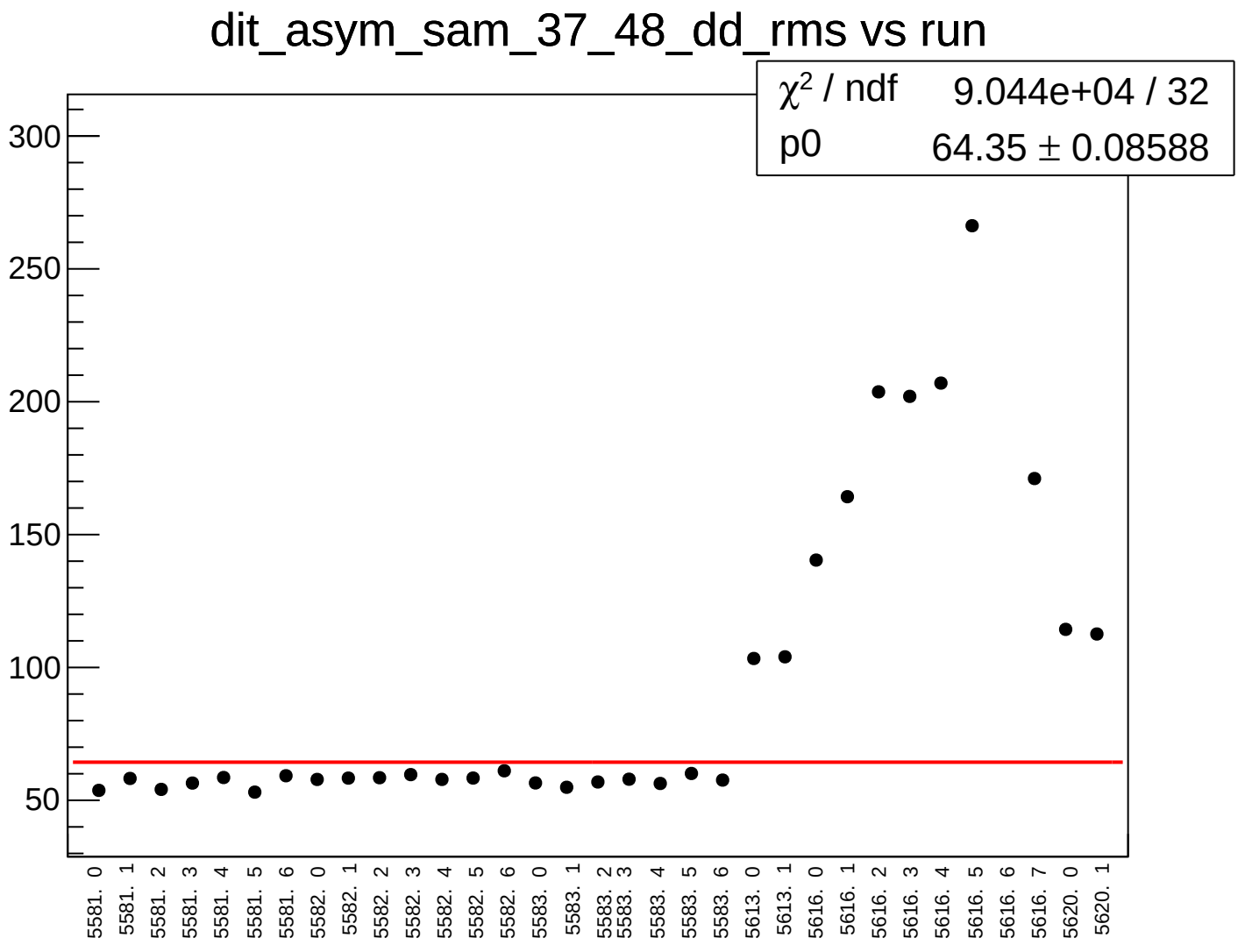

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 19.66 / 25
p0 347.6 ± 360.3
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 16.13
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

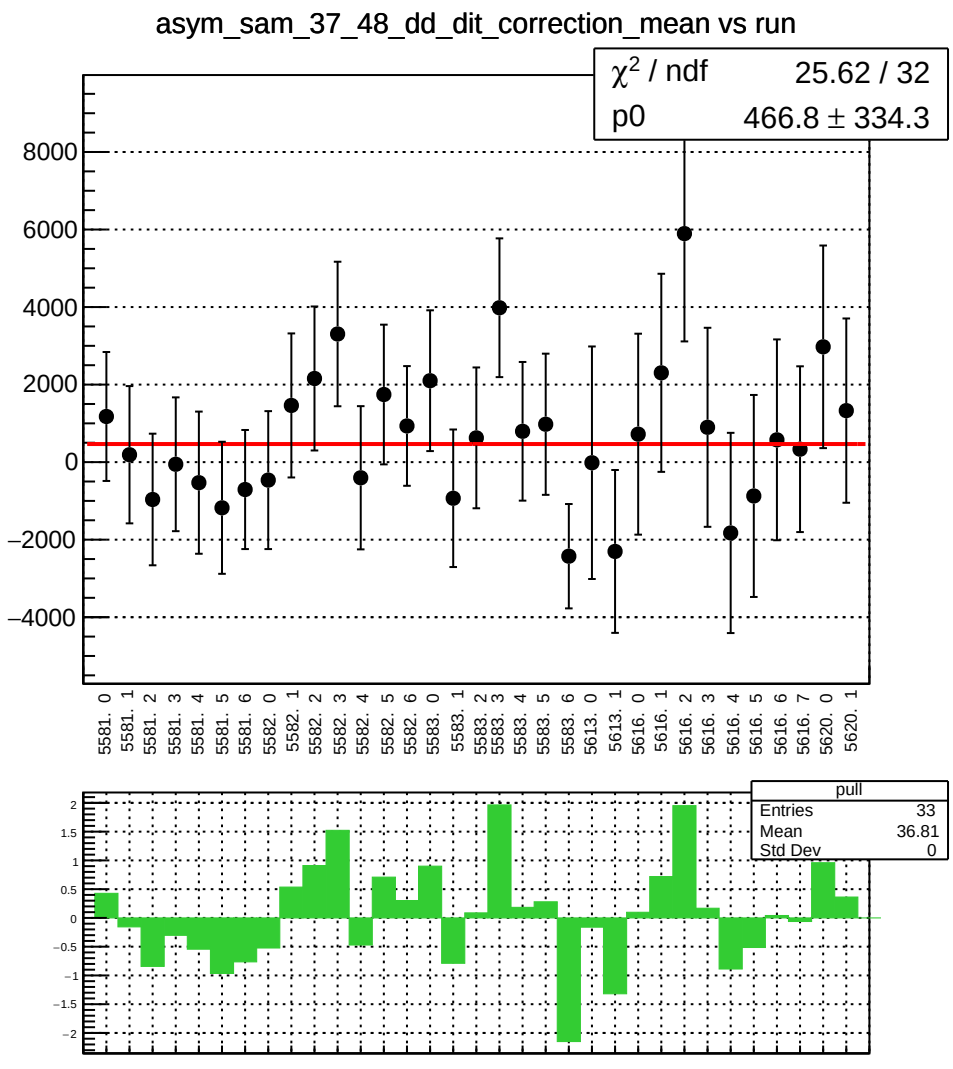

pull1D
Entries 26
Mean 0.04221
Std Dev 0.8685
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

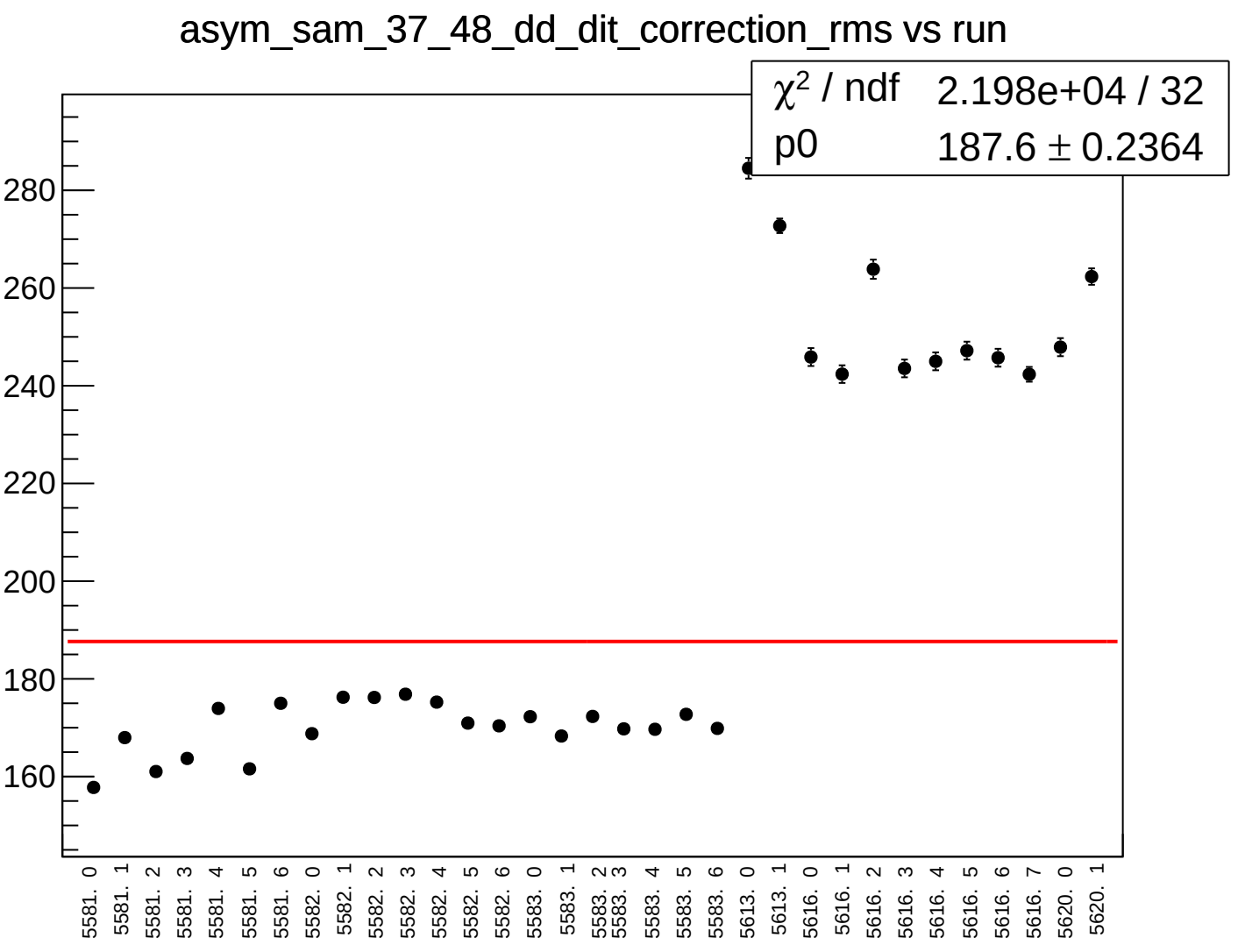

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.615e+04 / 25
p0 180.5 ± 0.2548
320
300
280
260
240
220
200
180
160
140
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

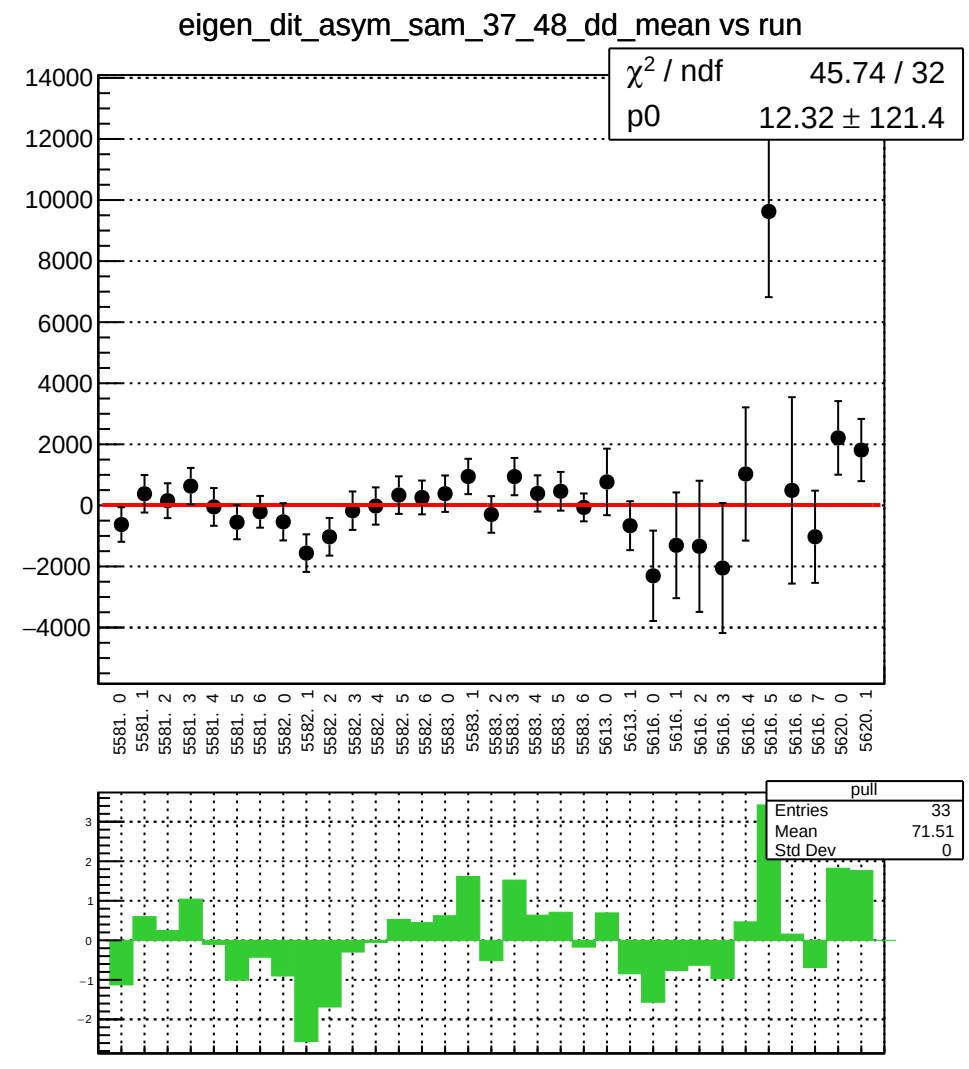

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 45.74 / 32
p0 12.32 ± 121.5
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 71.51
Std Dev 0
3
2
1
0
−1
−2

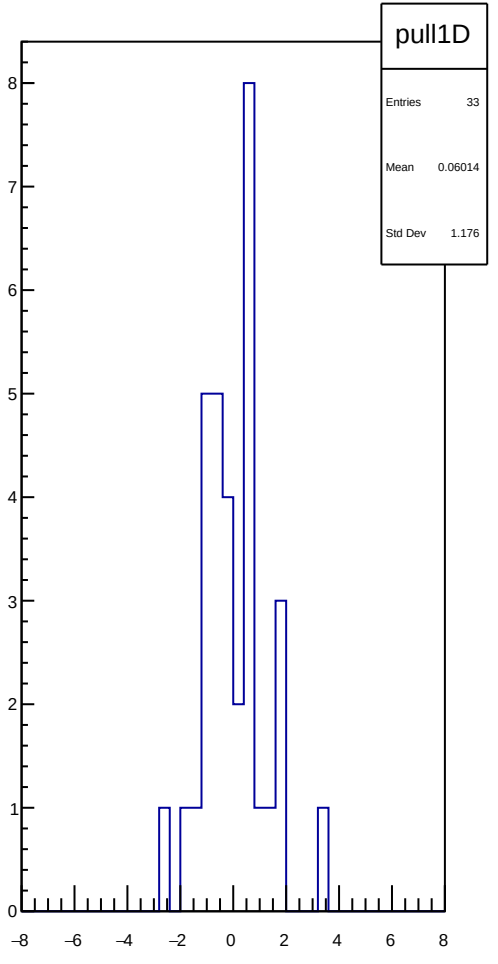

pull1D
Entries 33
Mean 0.06014
Std Dev 1.176
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

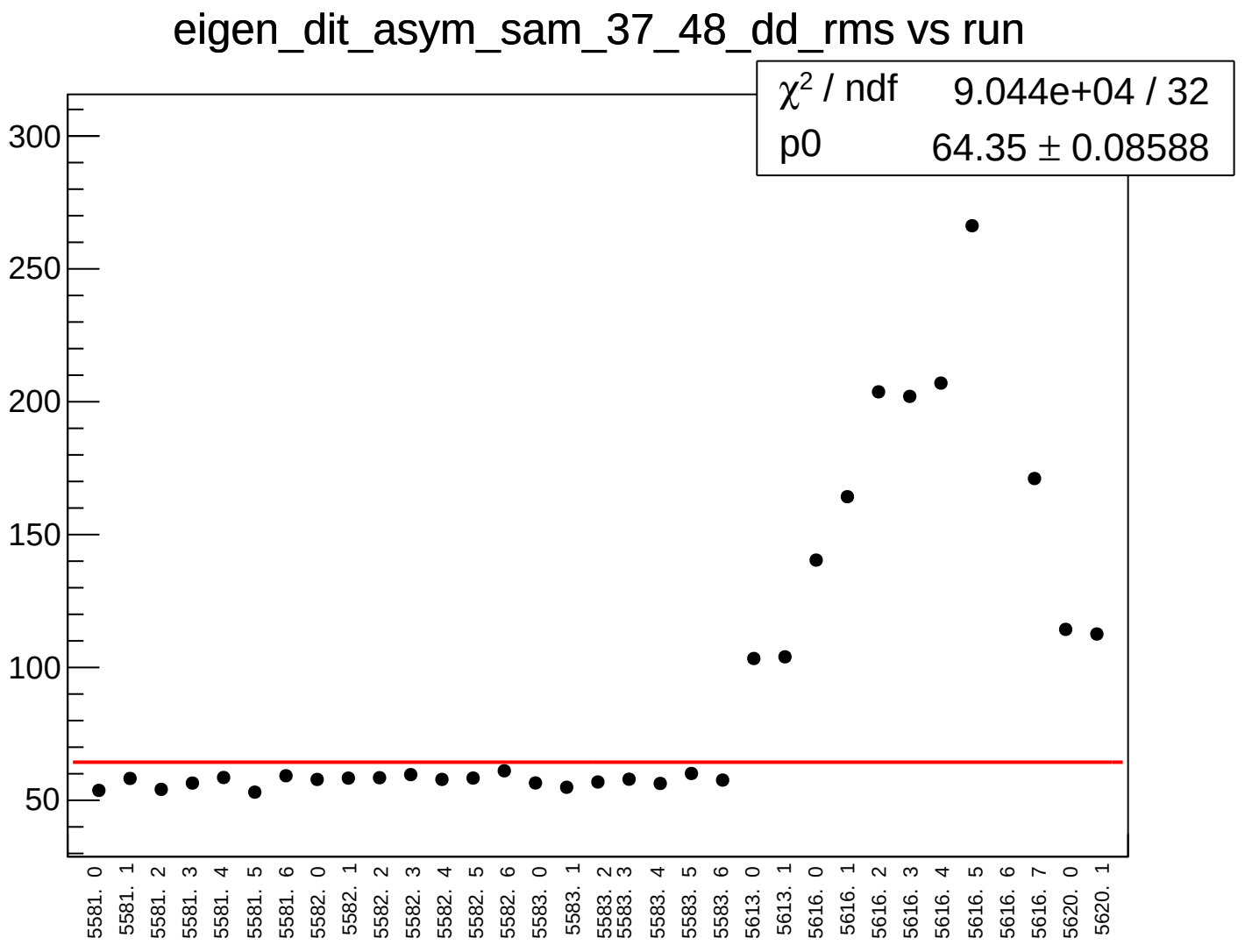

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 9.044e+04 / 32
p0 64.35 ± 0.08588
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

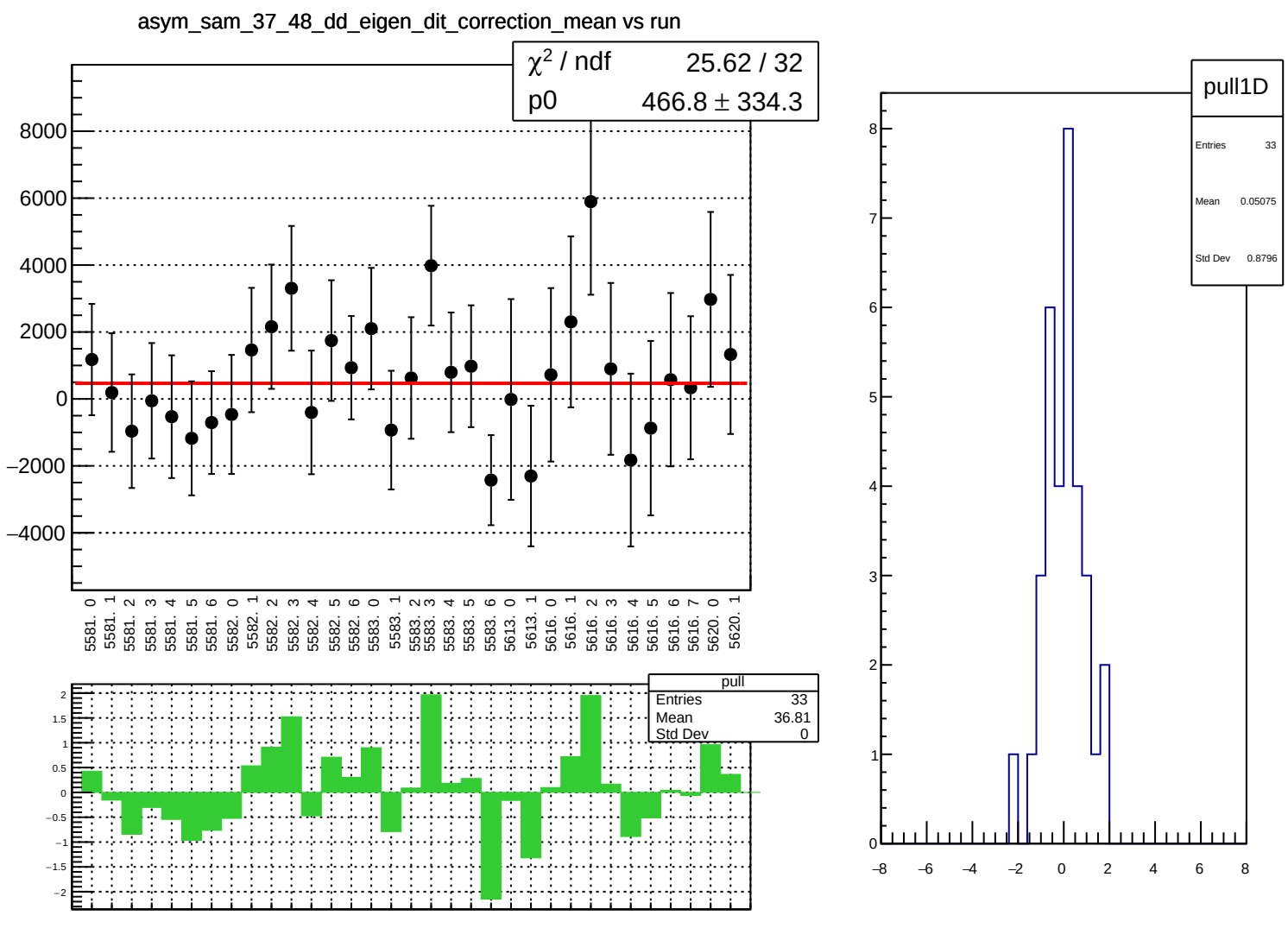

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 25.62 / 32
p0 466.8 ± 334.3
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.05075
Std Dev 0.8796
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

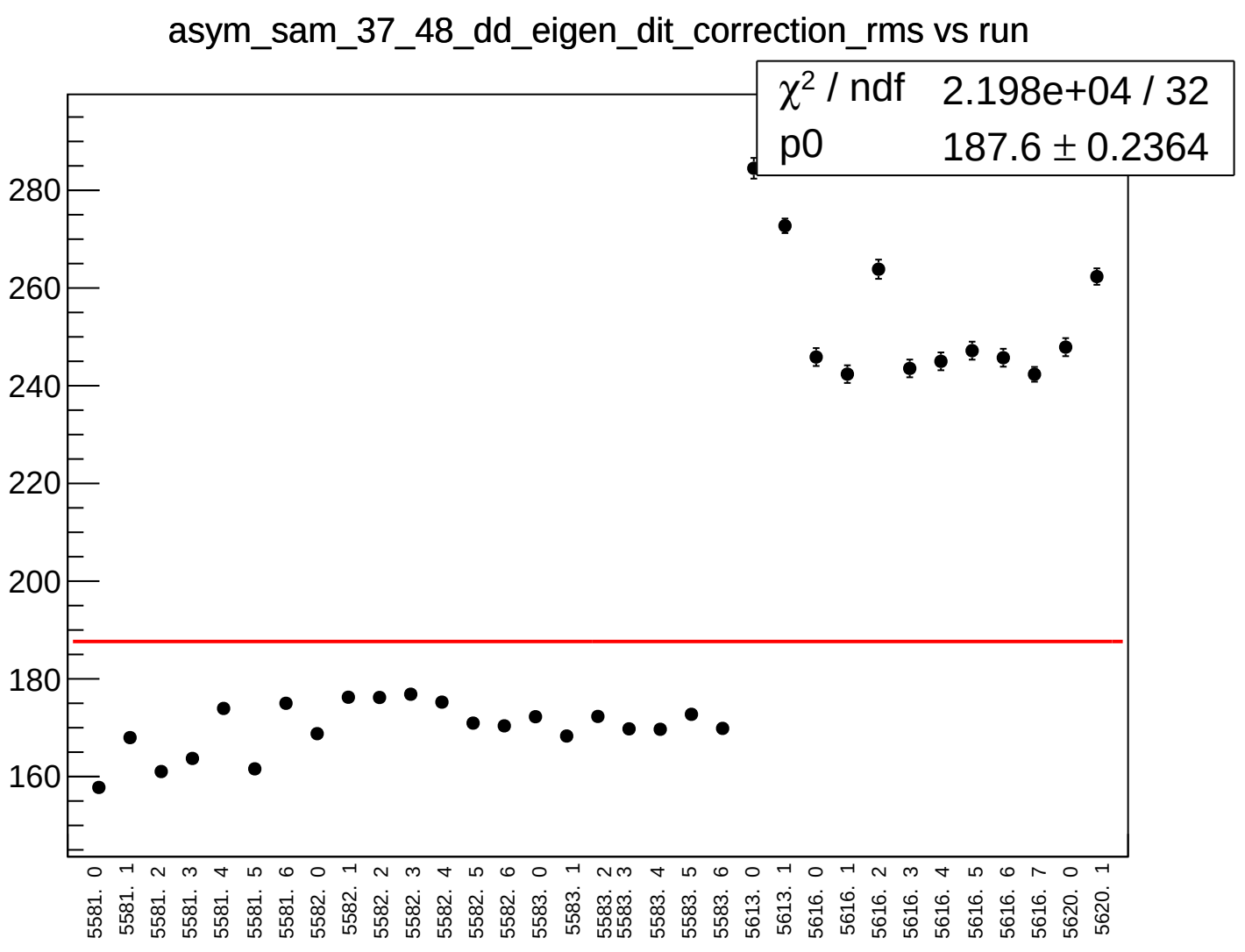

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 2.198e+04 / 32
p0 187.6 ± 0.2364
280
260
240
220
200
180
160
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

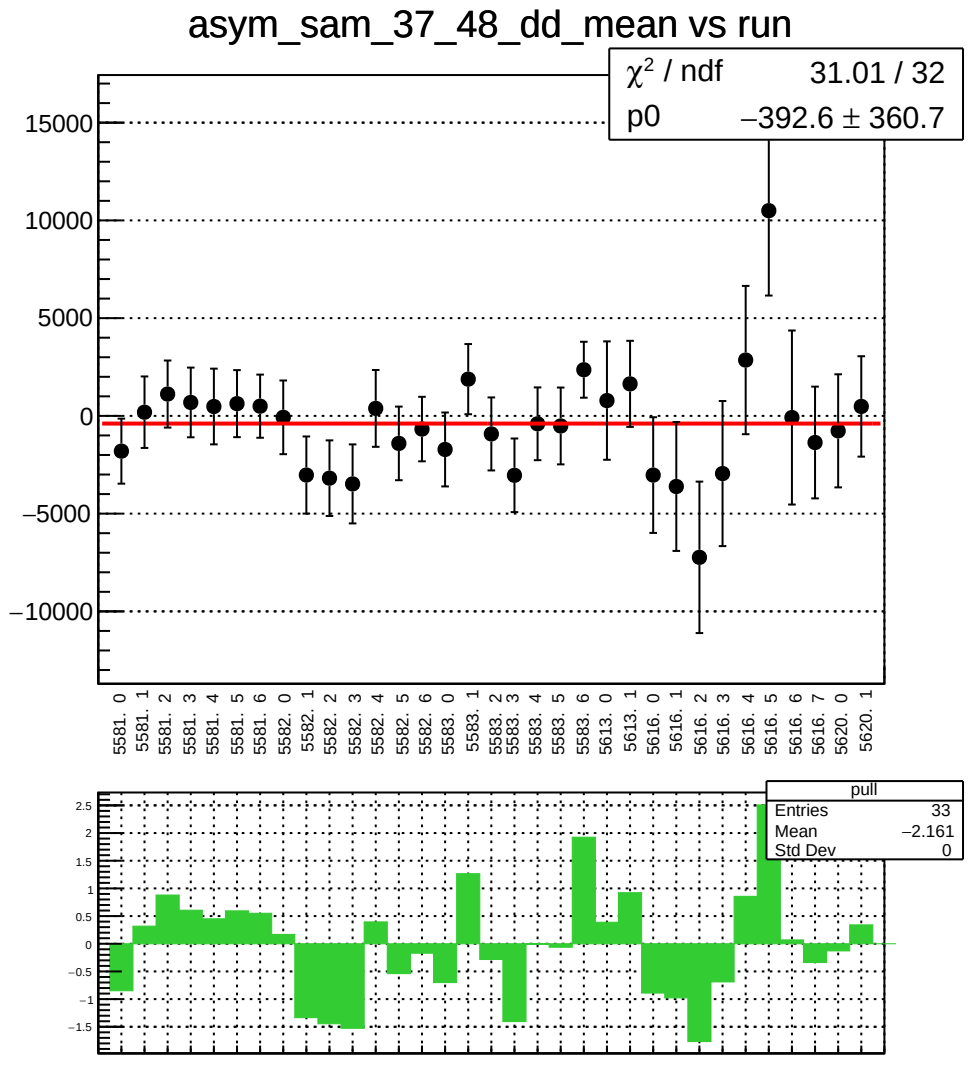

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 45.74 / 32
p0 12.32 ± 121.4
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 71.51
Std Dev 0
3
2
1
0
−1
−2

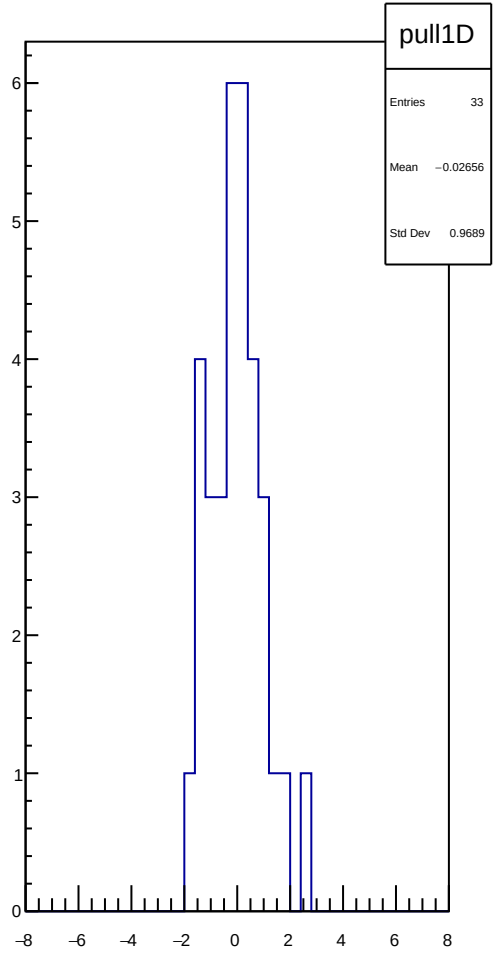

pull1D
Entries 33
Mean 0.06014
Std Dev 1.176
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

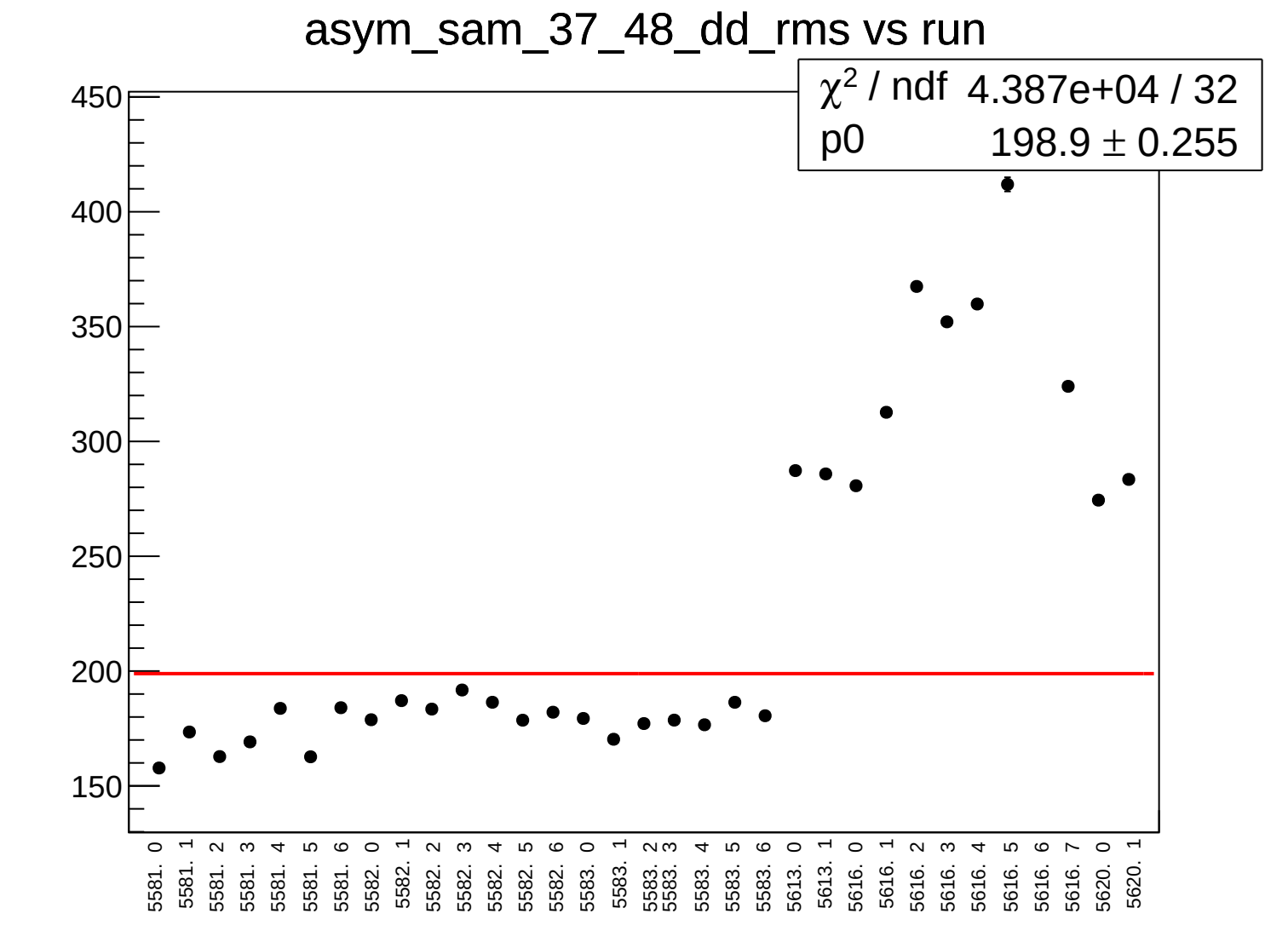

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 9.044e+04 / 32
p0 64.35 ± 0.08588
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

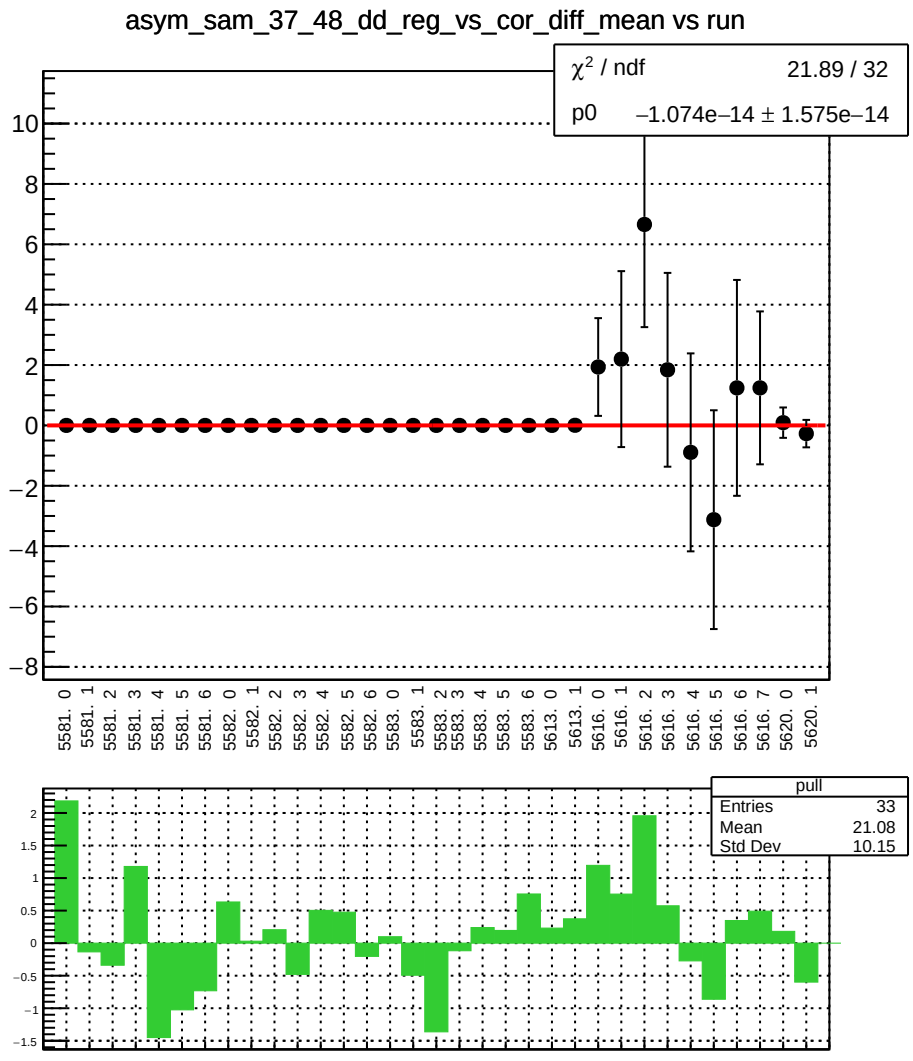

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 25.62 / 32
p0 466.8 ± 334.3
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.05075
Std Dev 0.8796
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

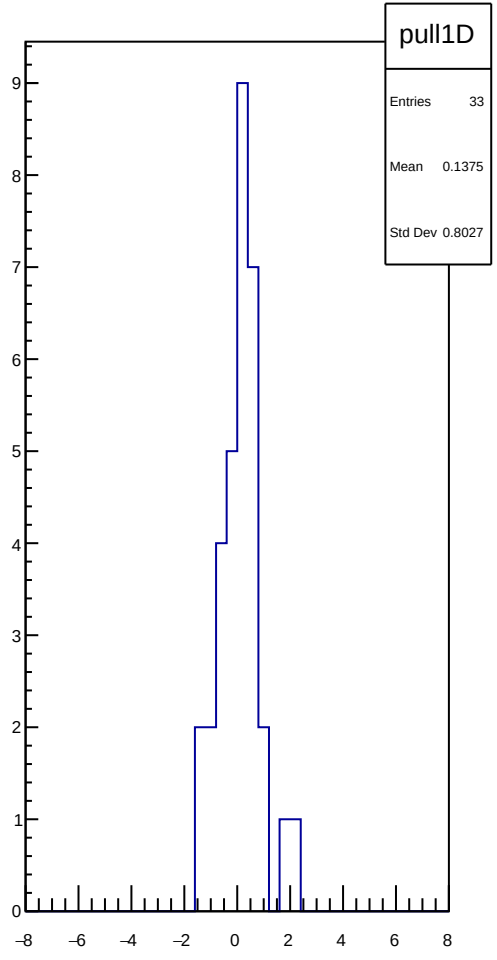

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.198e+04 / 32
p0 187.6 ± 0.2364
280
260
240
220
200
180
160
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

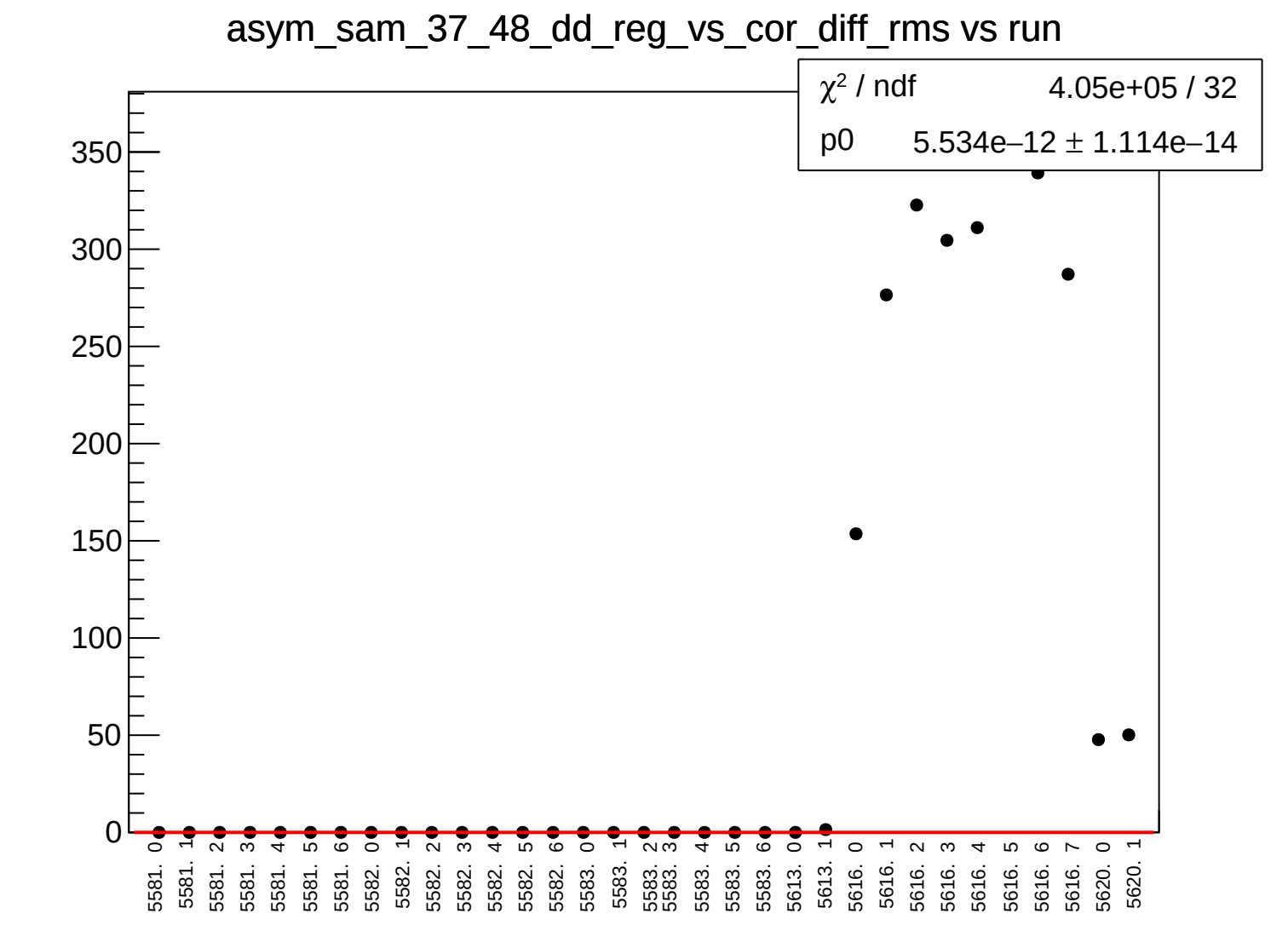

asym_sam_37_48_dd_mean vs run
χ² / ndf 31.01 / 32
p0 −392.6 ± 360.7
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2.161
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

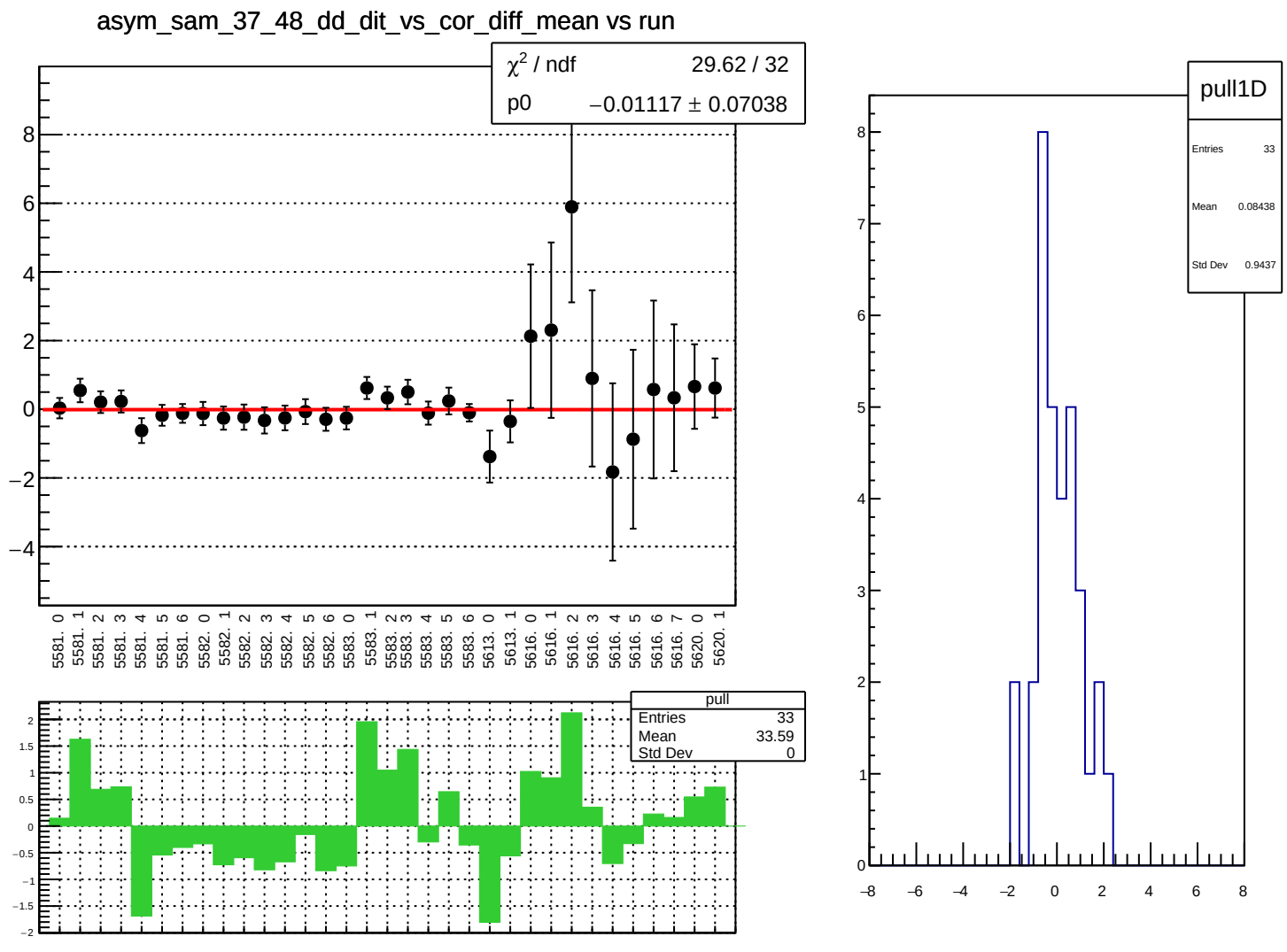

pull1D
Entries 33
Mean −0.02656
Std Dev 0.9689
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

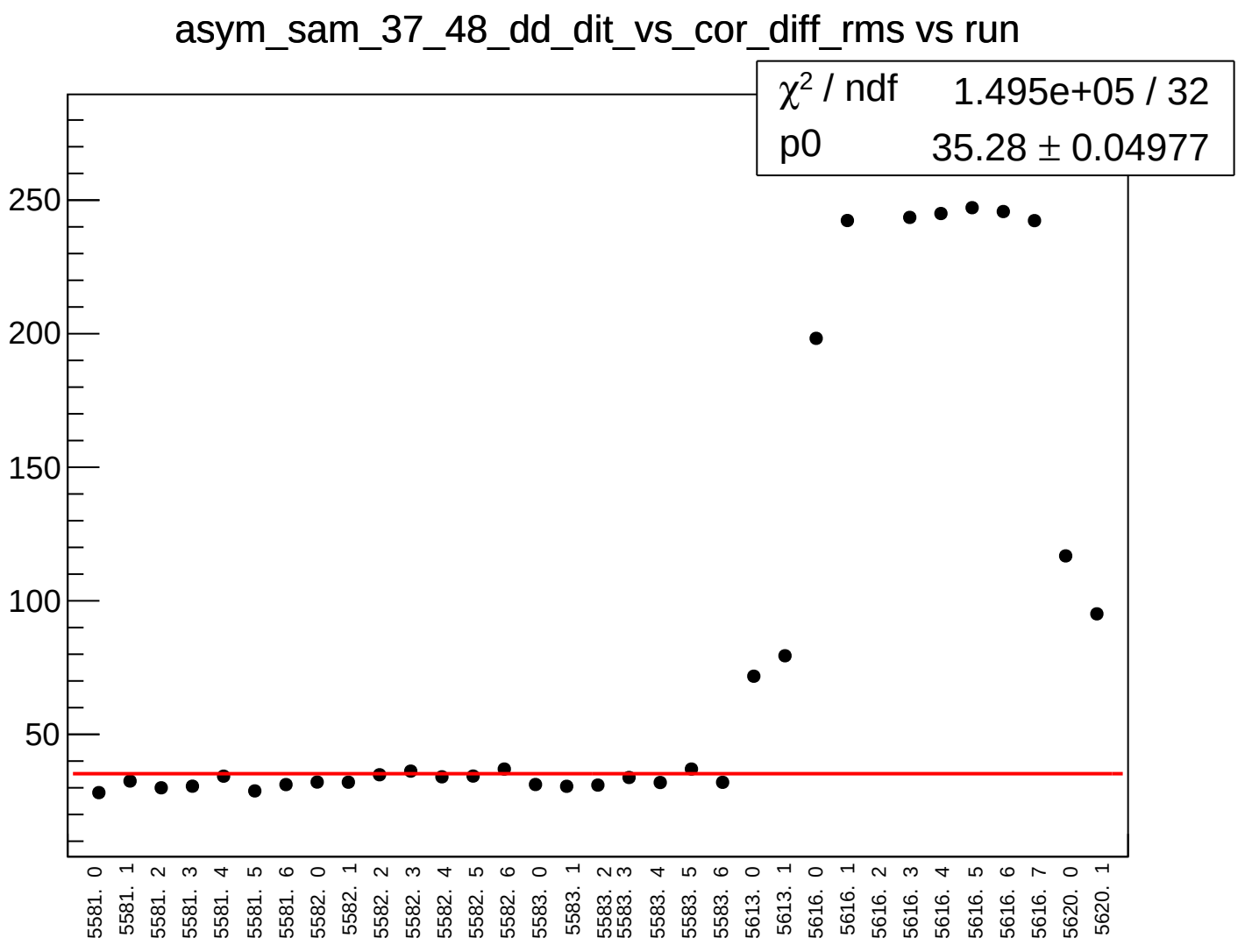

asym_sam_37_48_dd_rms vs run
χ^2 / ndf 4.387e+04 / 32
p0 198.9 ± 0.255
450
400
350
300
250
200
150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

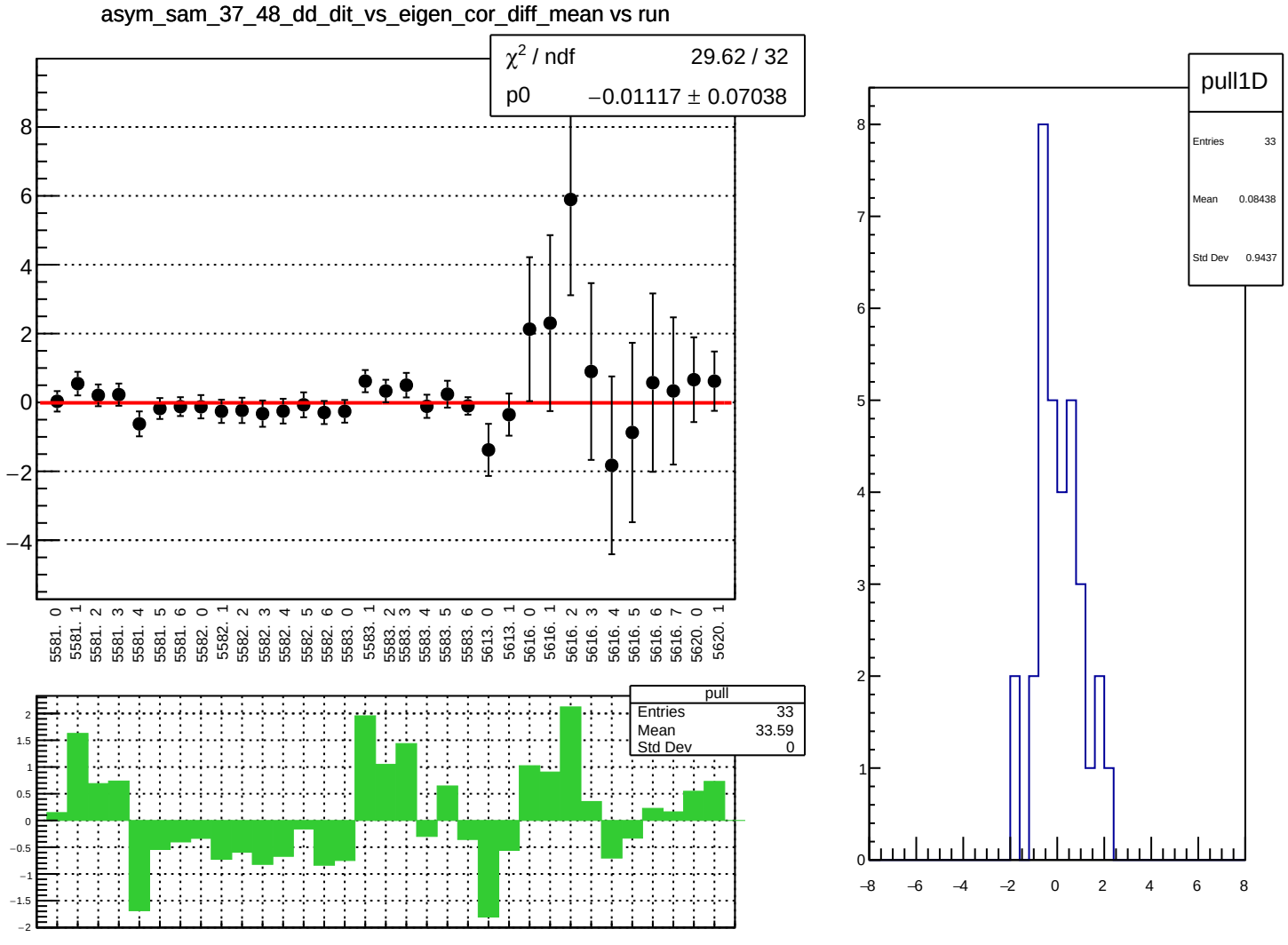

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 21.89 / 32
p0 −1.074e−14 ± 1.575e−14
pull
Entries 33
Mean 21.08
Std Dev 10.15

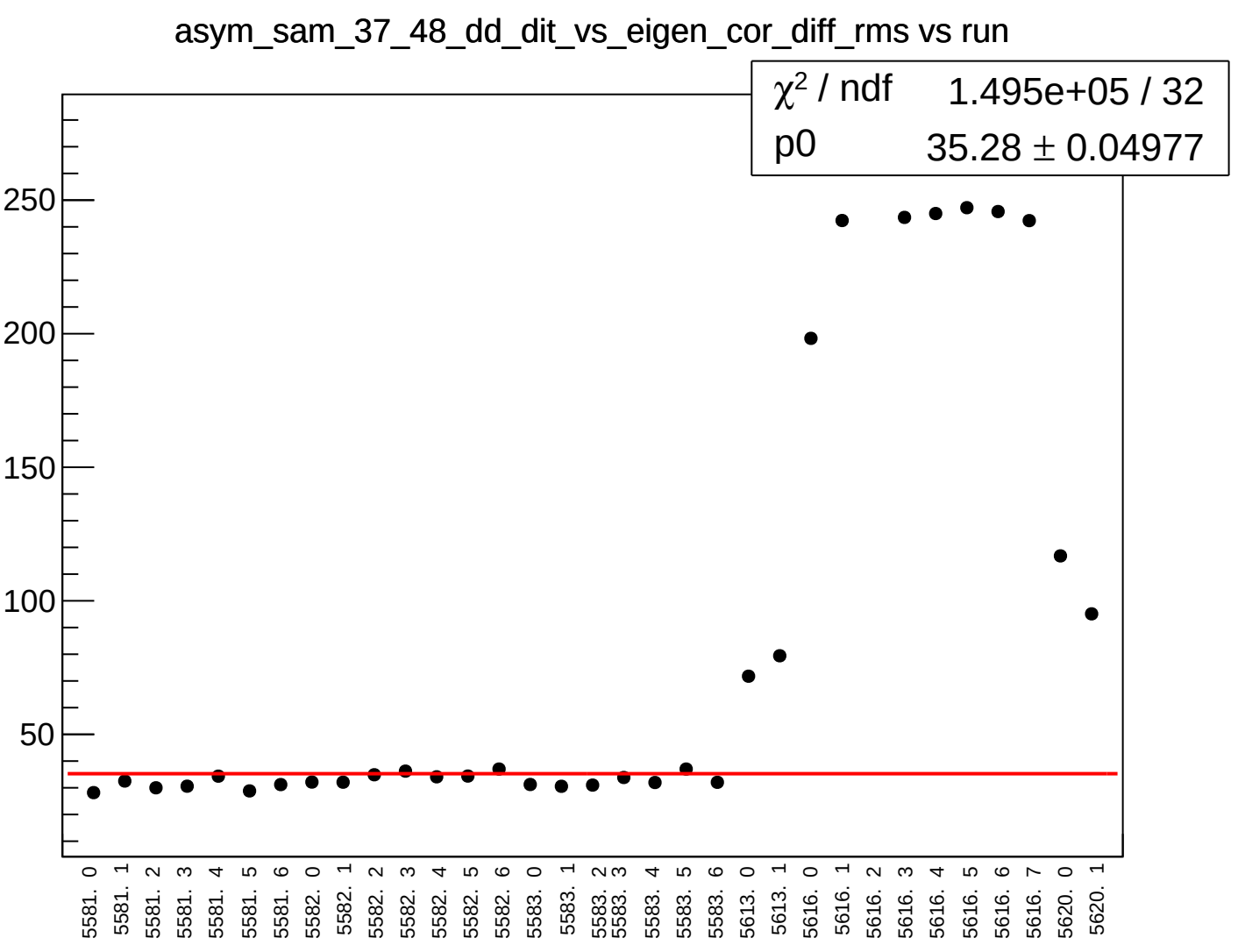

pull1D
Entries 33
Mean 0.1375
Std Dev 0.8027

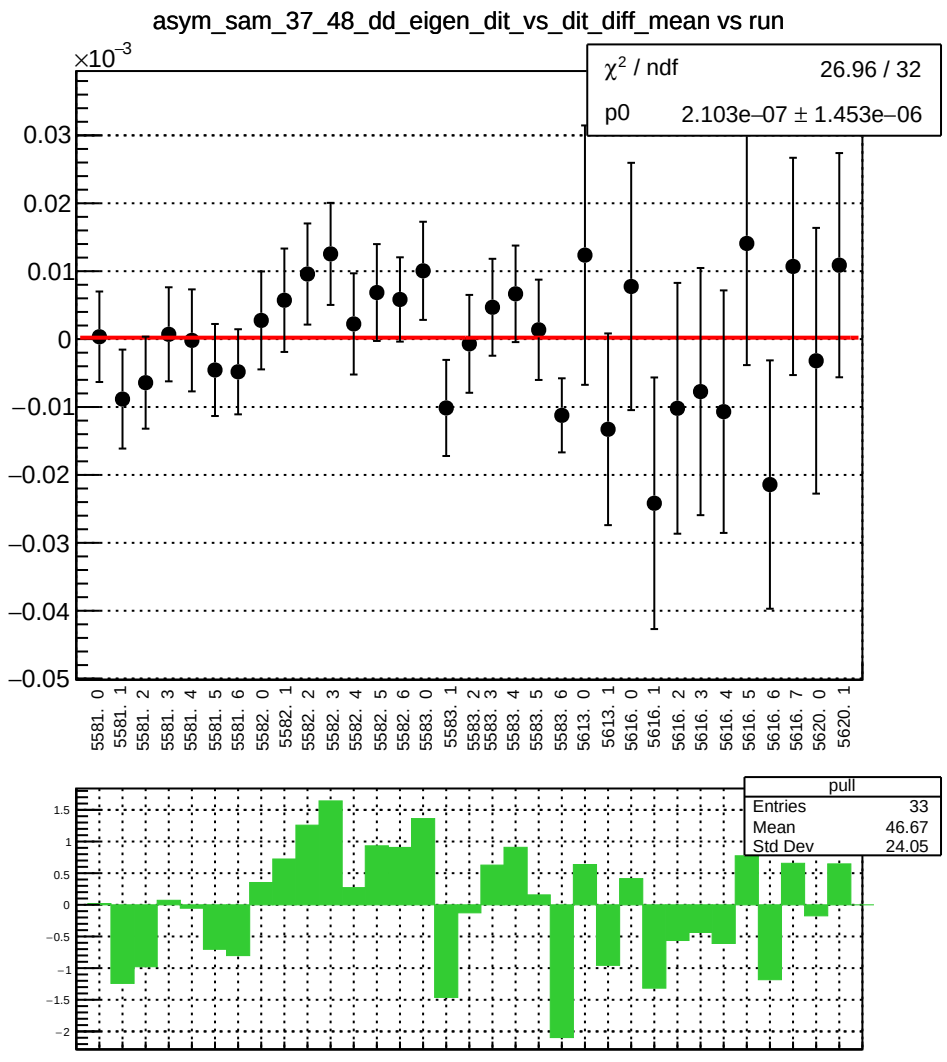

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.05e+05 / 32
p0 5.534e−12 ± 1.114e−14
350
300
250
200
150
100
50
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

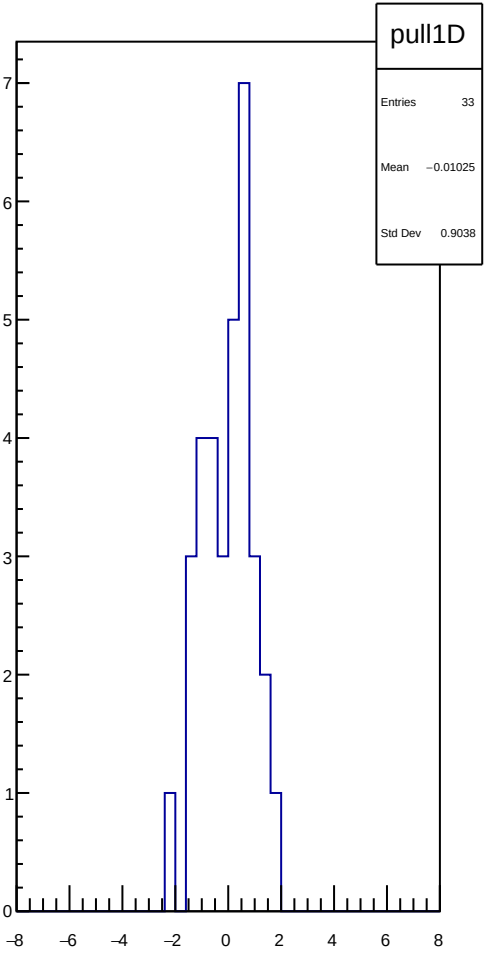

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 29.62 / 32
p0 −0.01117 ± 0.07038
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 33.59
Std Dev 0
pull1D
Entries 33
Mean 0.08438
Std Dev 0.9437

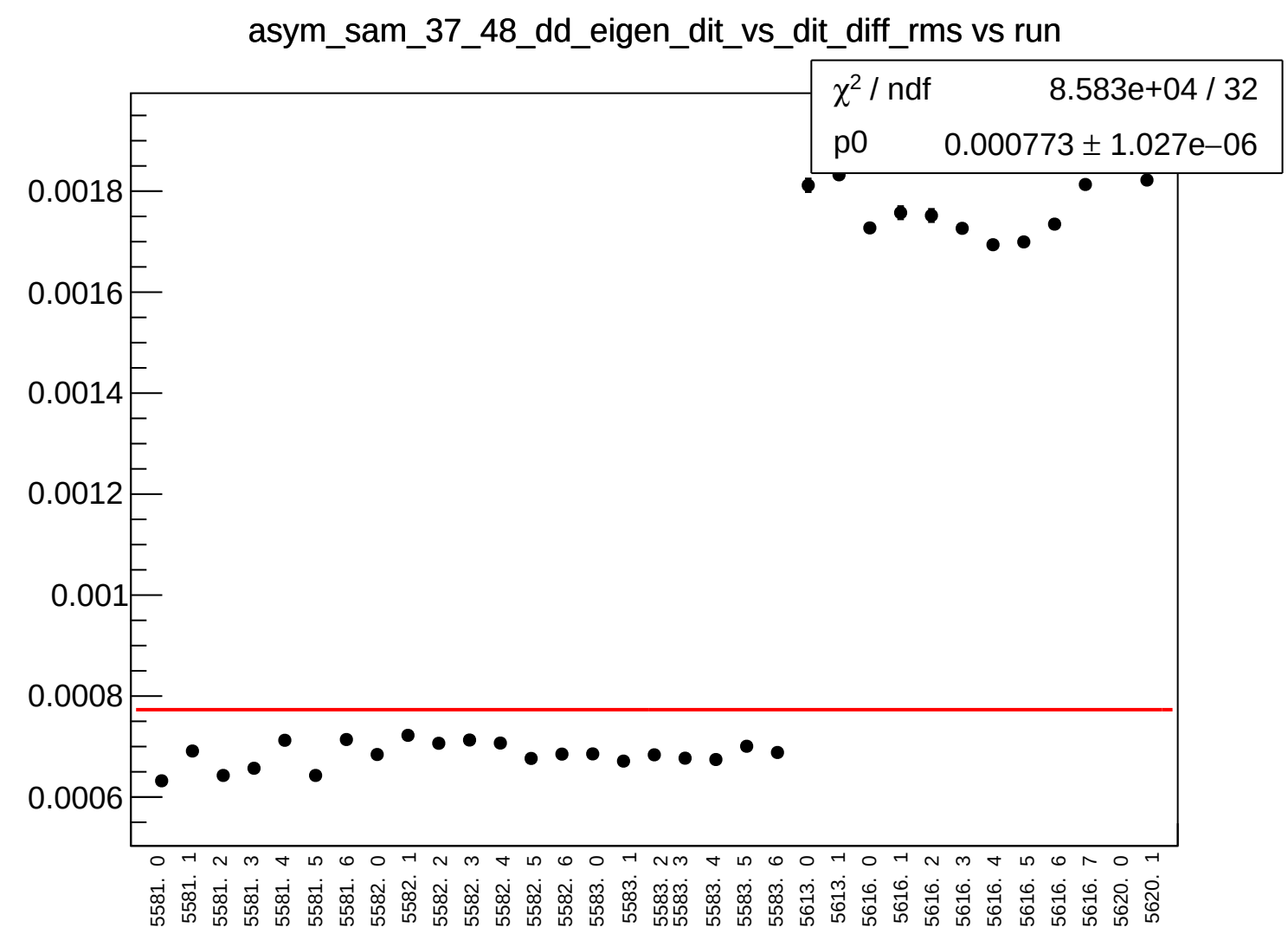

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.495e+05 / 32
p0 35.28 ± 0.04977
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

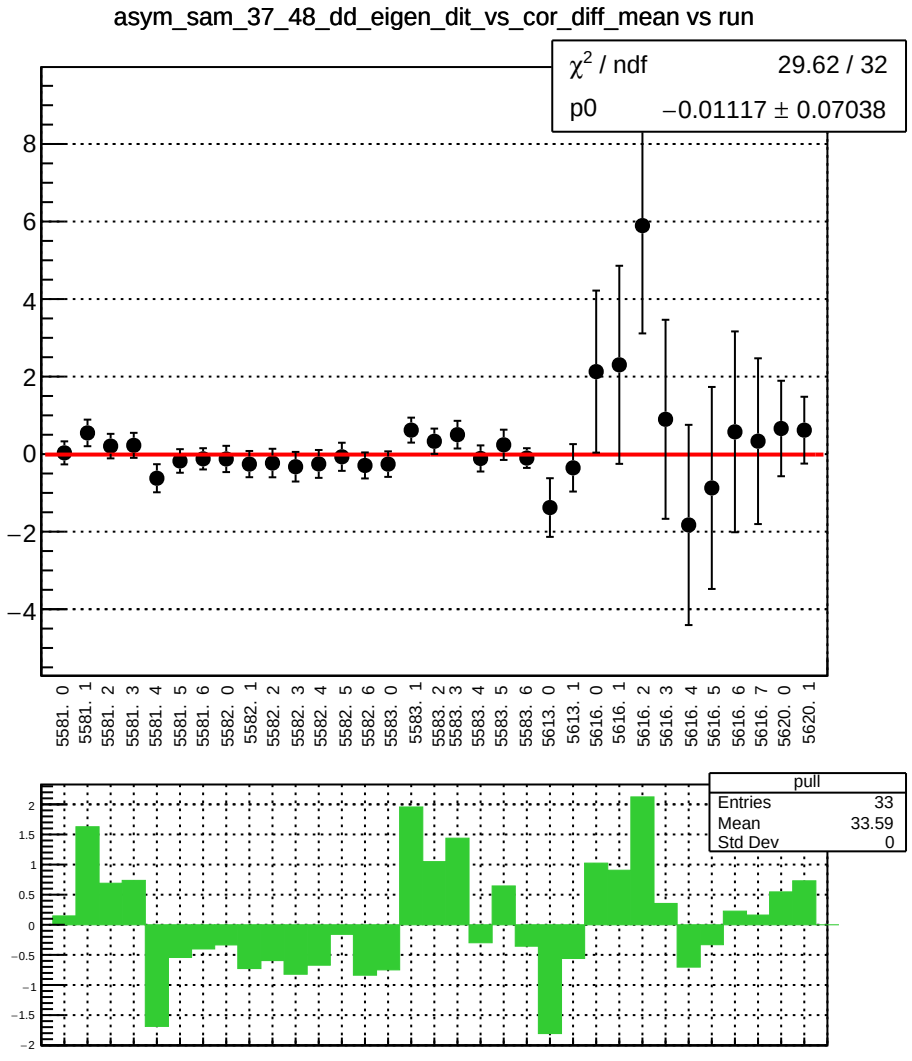

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.62 / 32
p0 −0.01117 ± 0.07038
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 33.59
Std Dev 0
pull1D
Entries 33
Mean 0.08438
Std Dev 0.9437

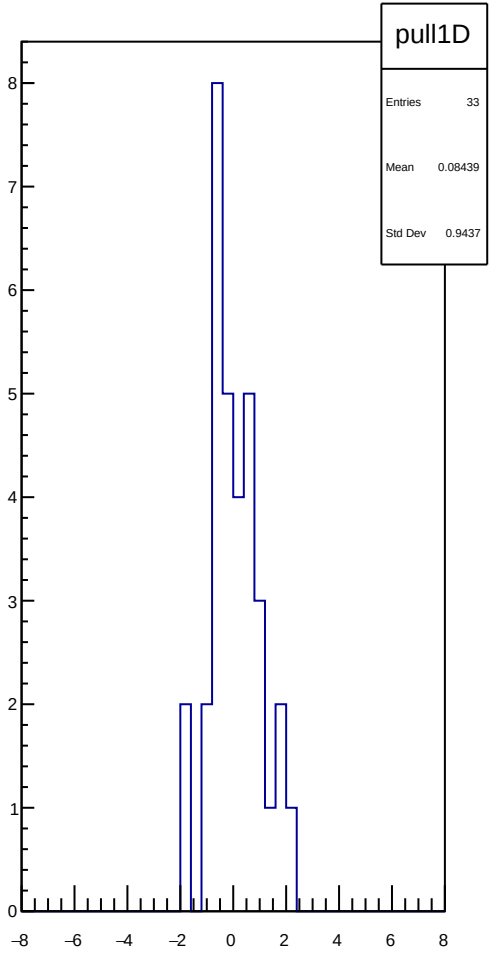

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.495e+05 / 32
p0 35.28 ± 0.04977
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

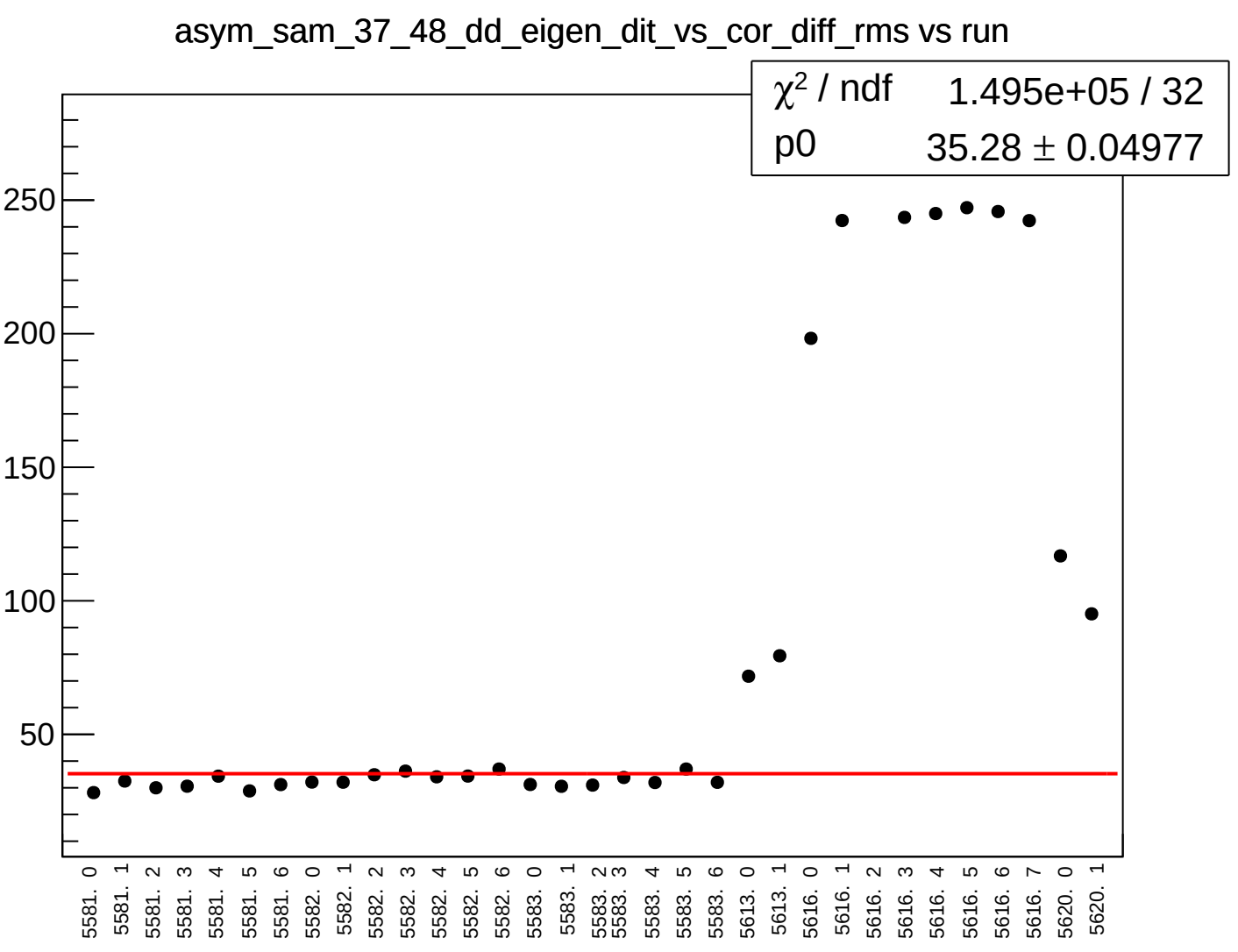

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 26.96 / 32
p0 2.103e−07 ± 1.453e−06
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 46.67
Std Dev 24.05
1.5
1
0.5
0
−0.5
−1
−1.5
−2

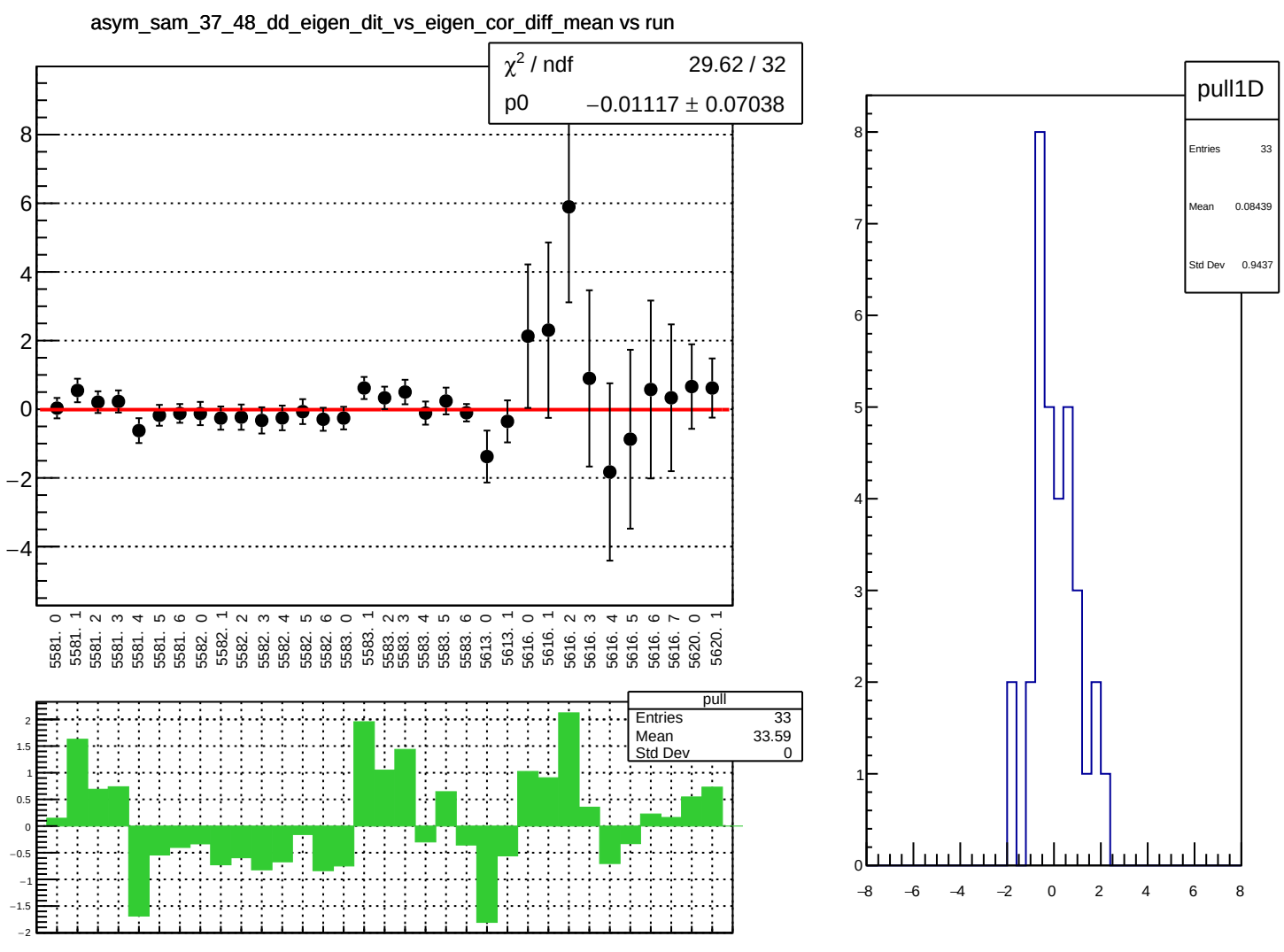

pull1D
Entries 33
Mean −0.01025
Std Dev 0.9038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

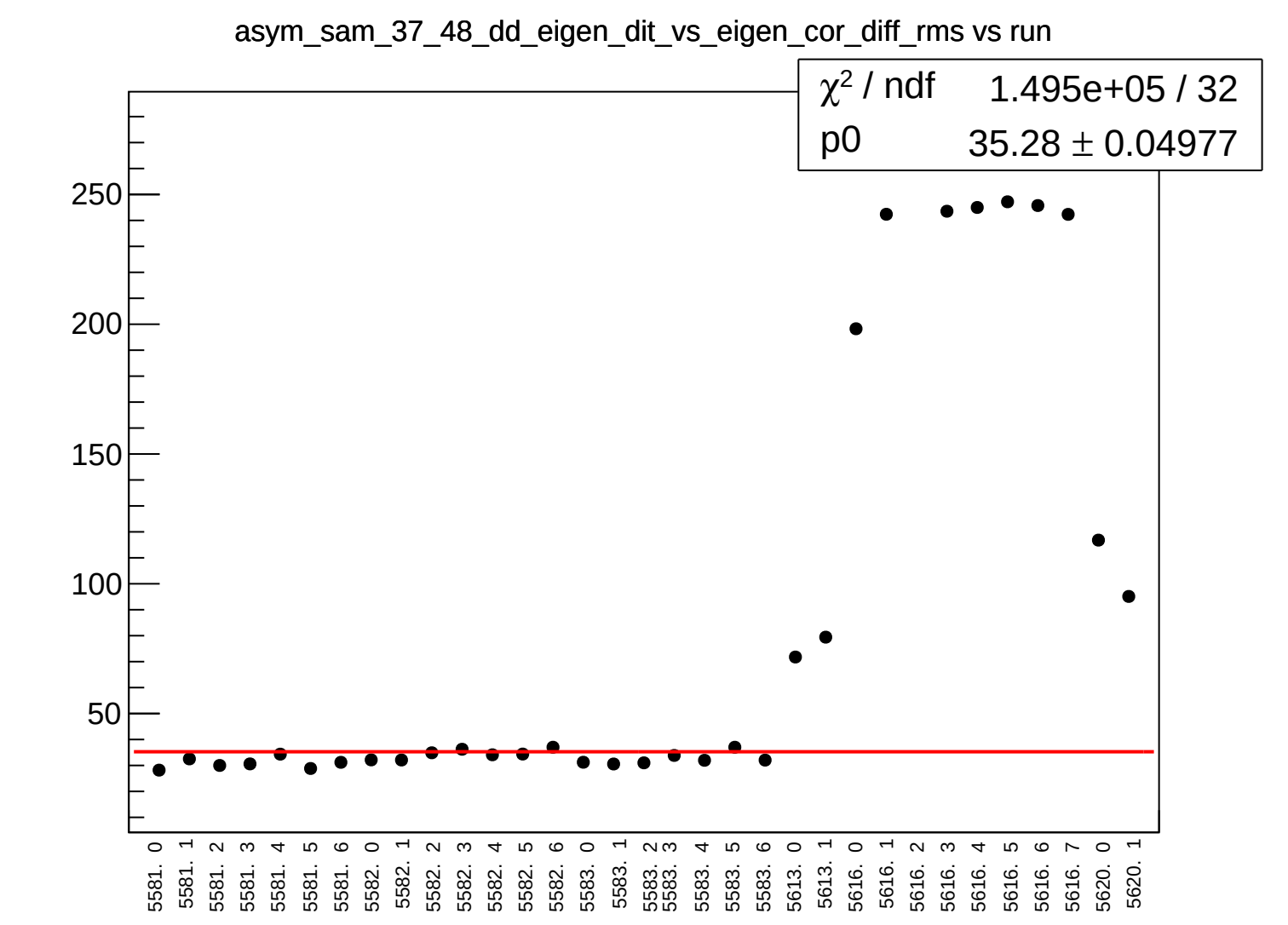

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.583e+04 / 32
p0 0.000773 ± 1.027e−06
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

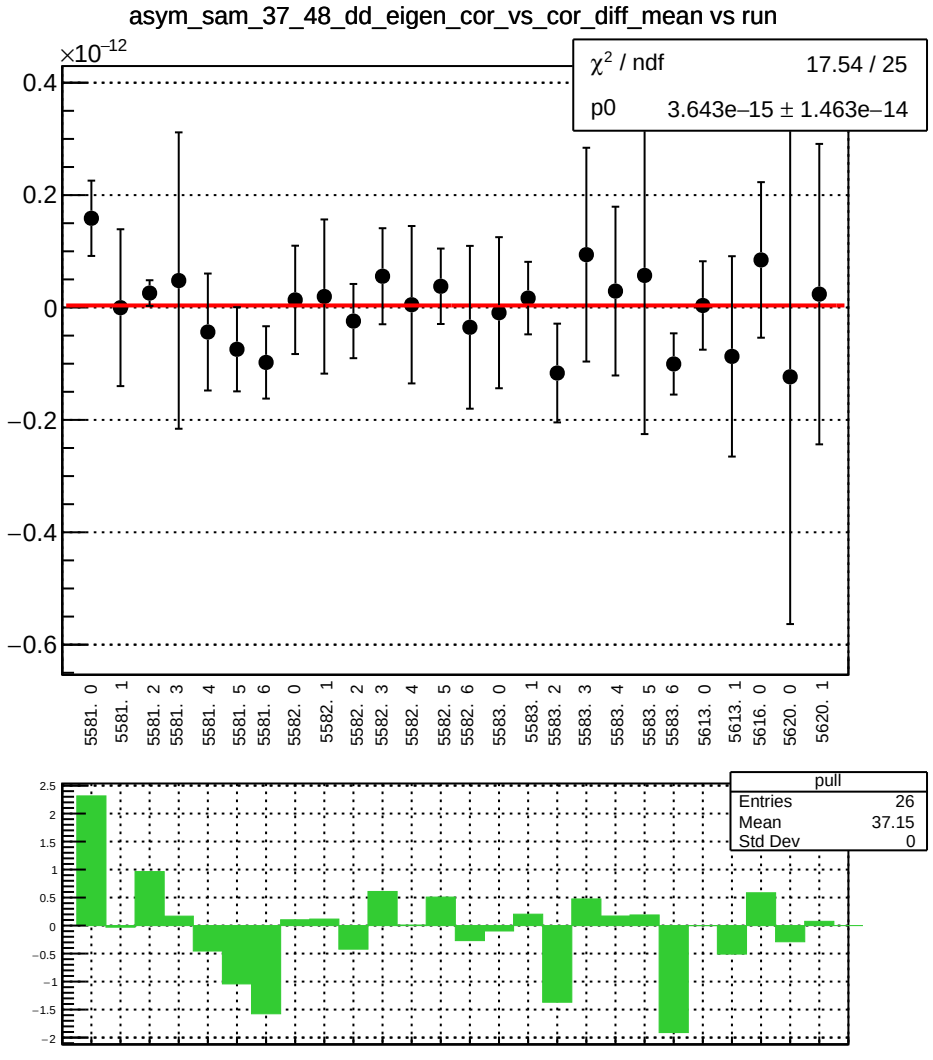

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 29.62 / 32
p0 −0.01117 ± 0.07038
8
6
4
2
0
−2
−4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 33.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

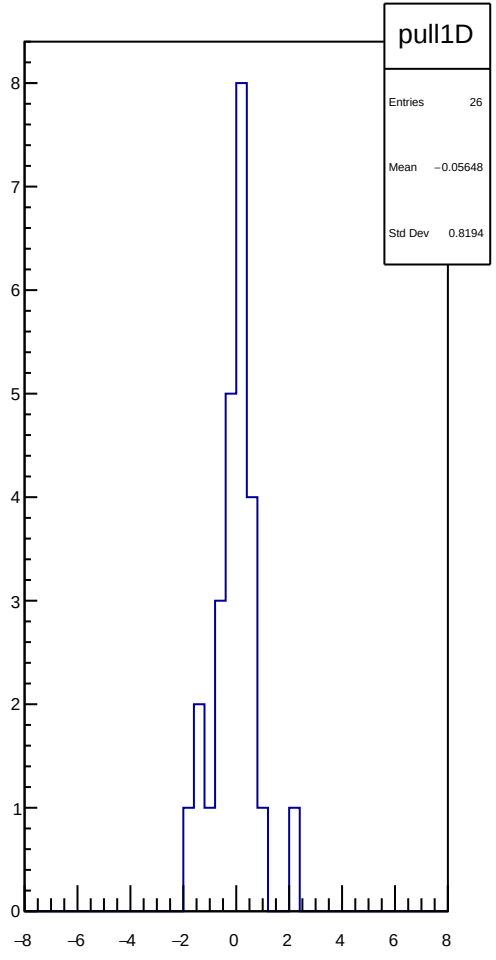

pull1D
Entries 33
Mean 0.08439
Std Dev 0.9437
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

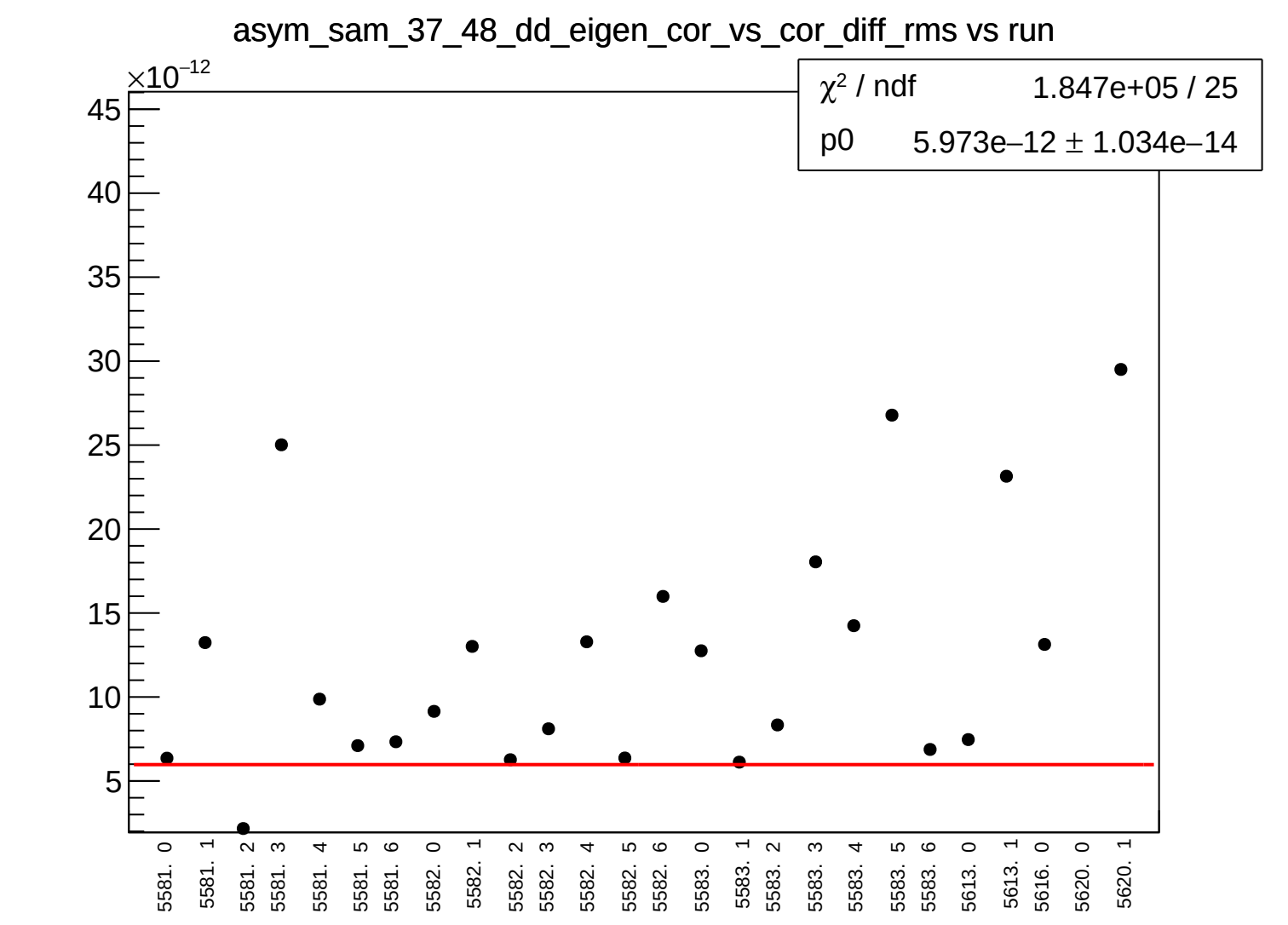

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.495e+05 / 32
p0 35.28 ± 0.04977
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

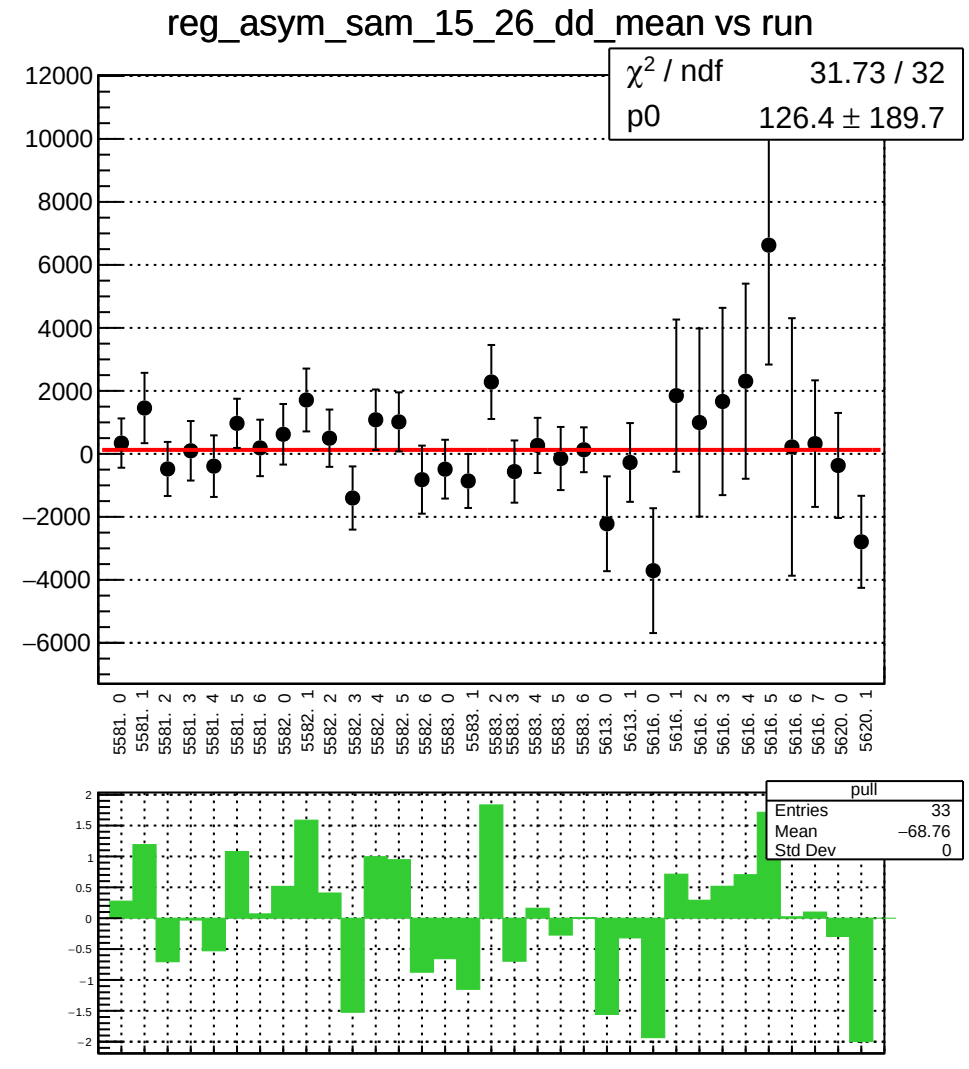

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 29.62 / 32
p0 −0.01117 ± 0.07038
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 33.59
Std Dev 0
pull1D
Entries 33
Mean 0.08439
Std Dev 0.9437

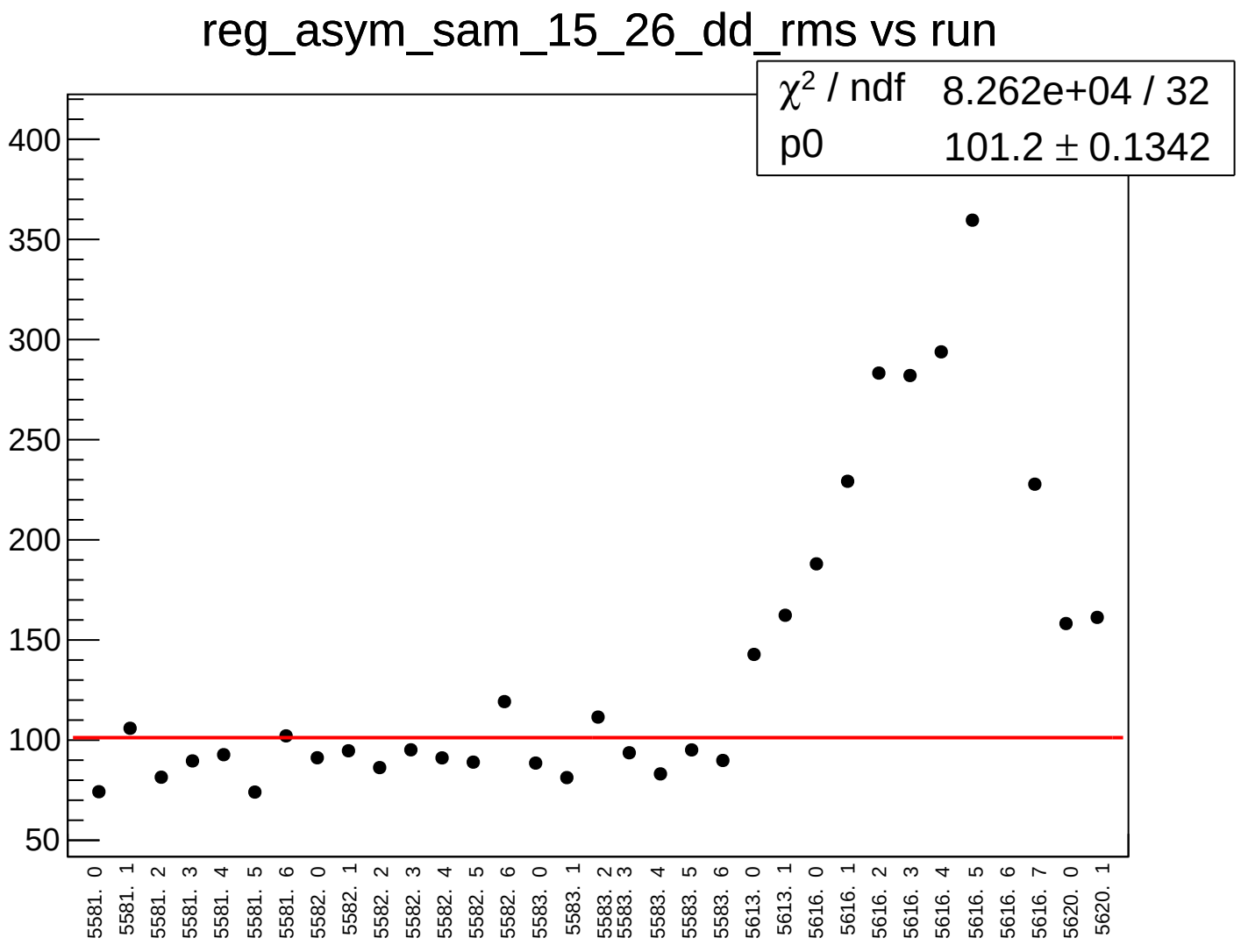

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.495e+05 / 32
p0 35.28 ± 0.04977
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

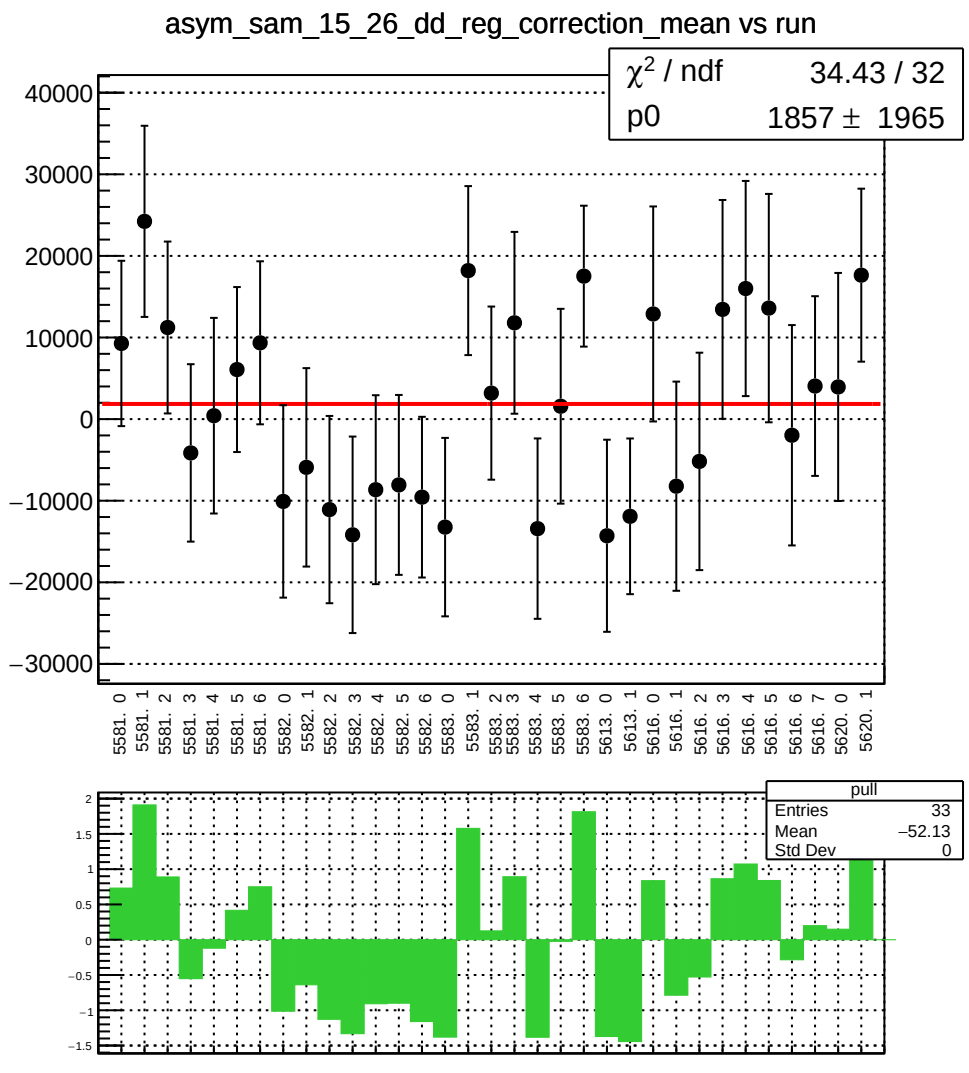

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 17.54 / 25
p0 3.643e−15 ± 1.463e−14
0.4
0.2
0
−0.2
−0.4
−0.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 37.15
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

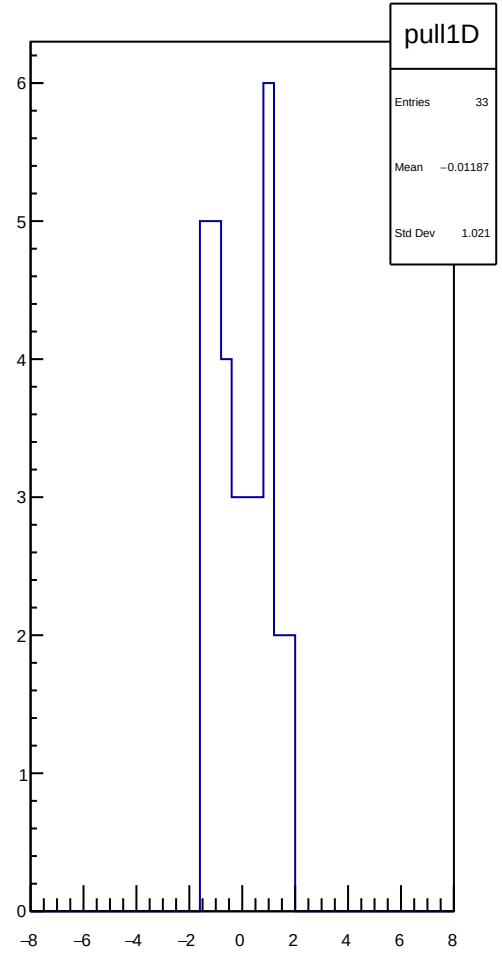

pull1D
Entries 26
Mean −0.05648
Std Dev 0.8194
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

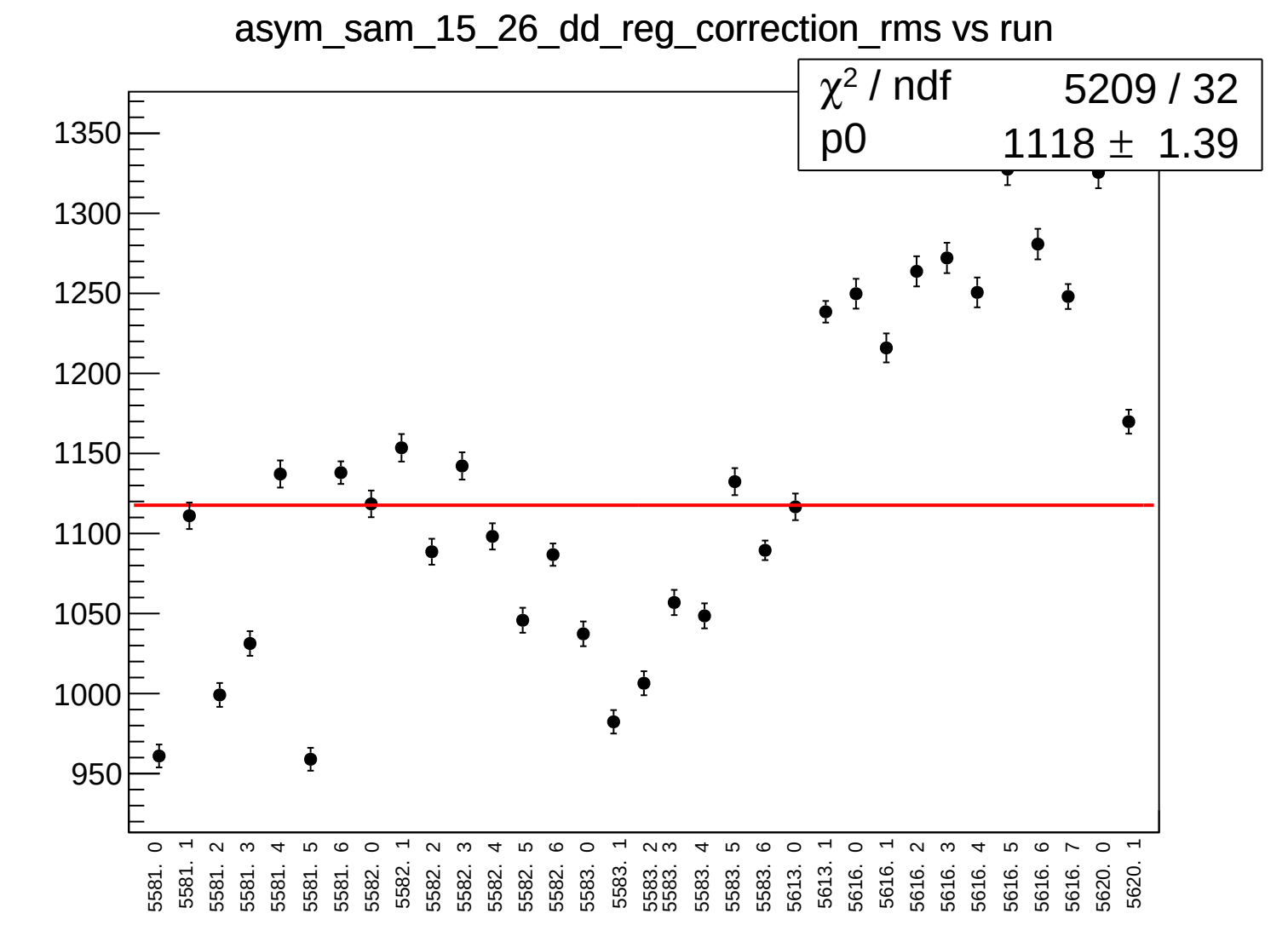

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 1.847e+05 / 25
p0 5.973e−12 ± 1.034e−14
45
40
35
30
25
20
15
10
5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

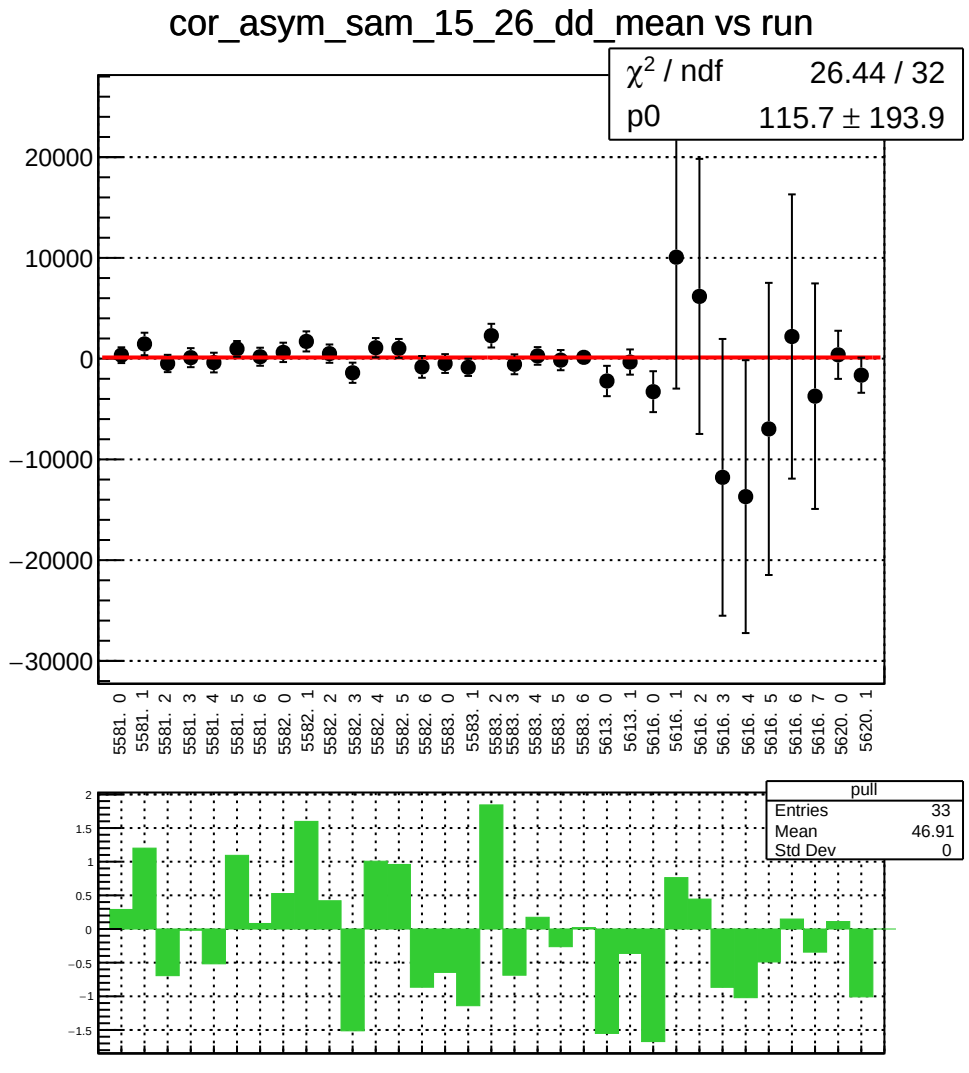

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 31.73 / 32
p0 126.4 ± 189.7
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −68.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.01789
Std Dev 0.9804
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

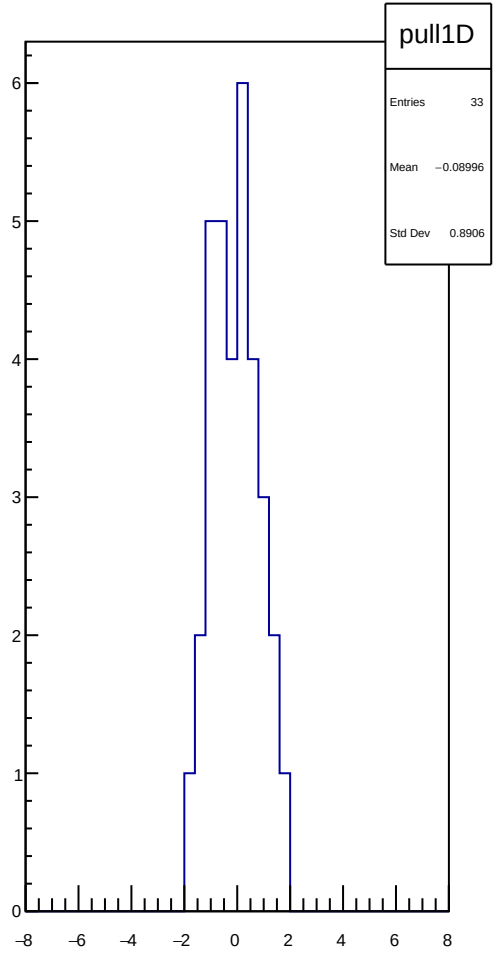

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 8.262e+04 / 32
p0 101.2 ± 0.1342
400
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

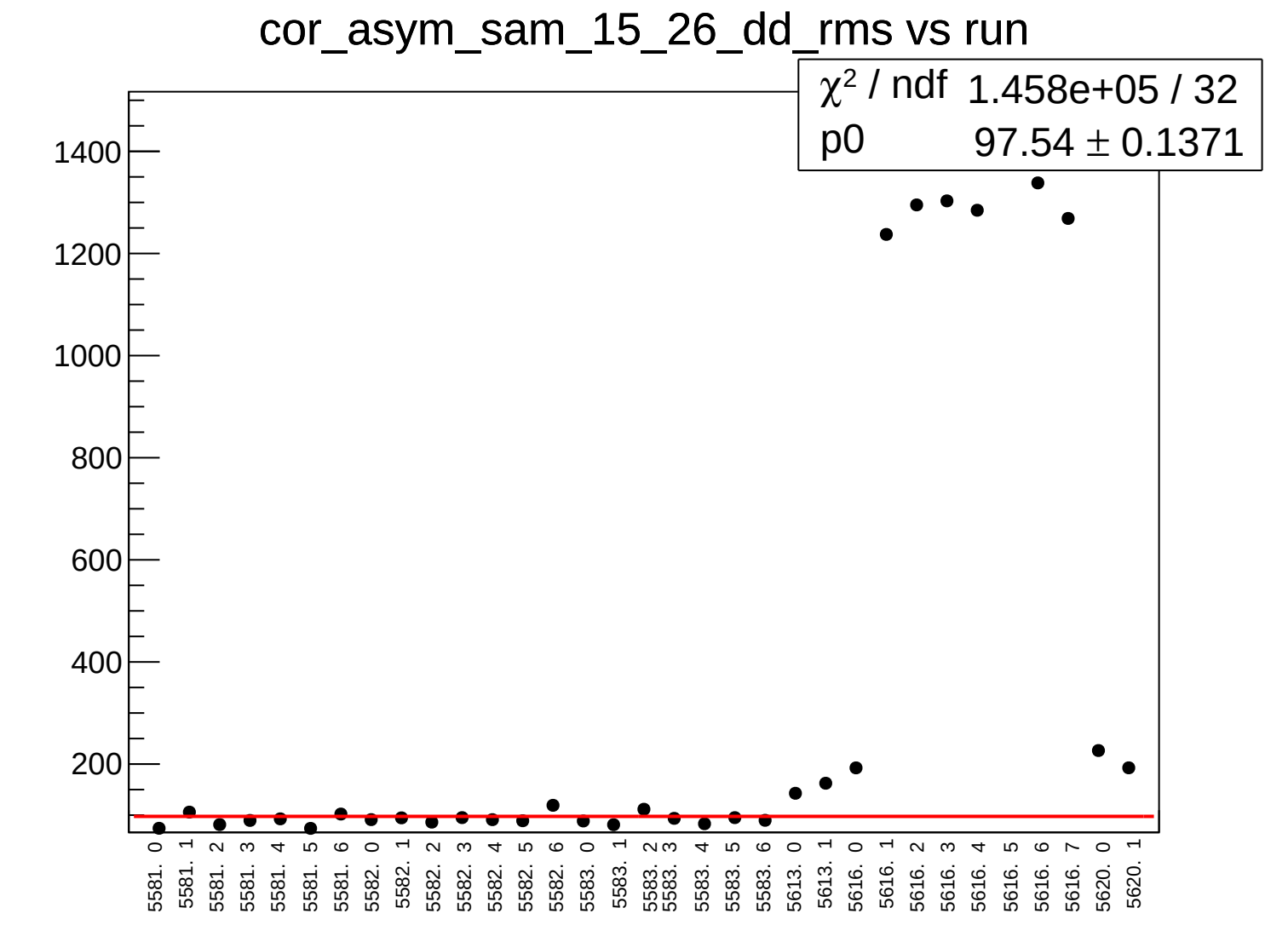

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 34.43 / 32
p0 1857 ± 1965
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −52.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

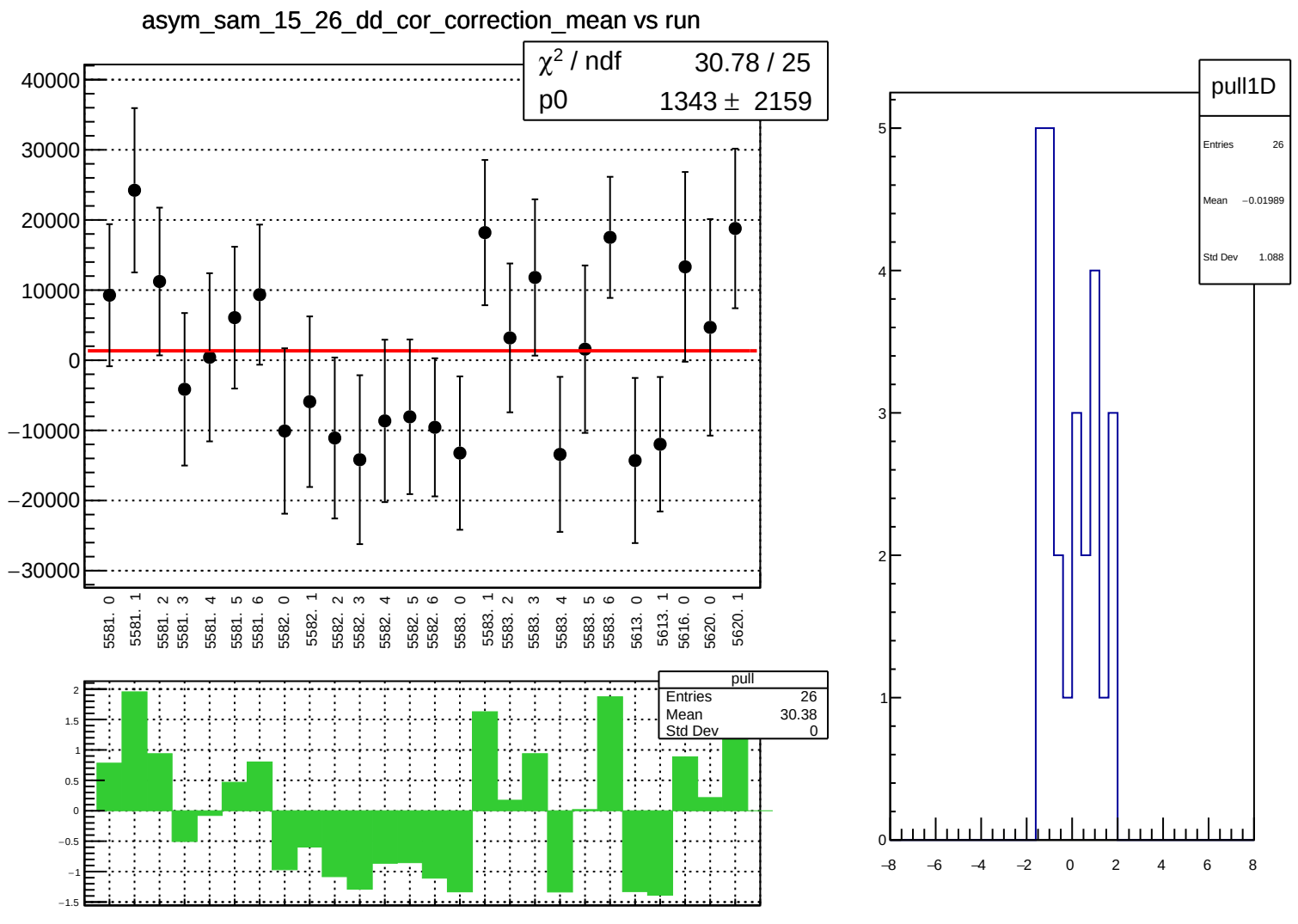

pull1D
Entries 33
Mean −0.01187
Std Dev 1.021
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

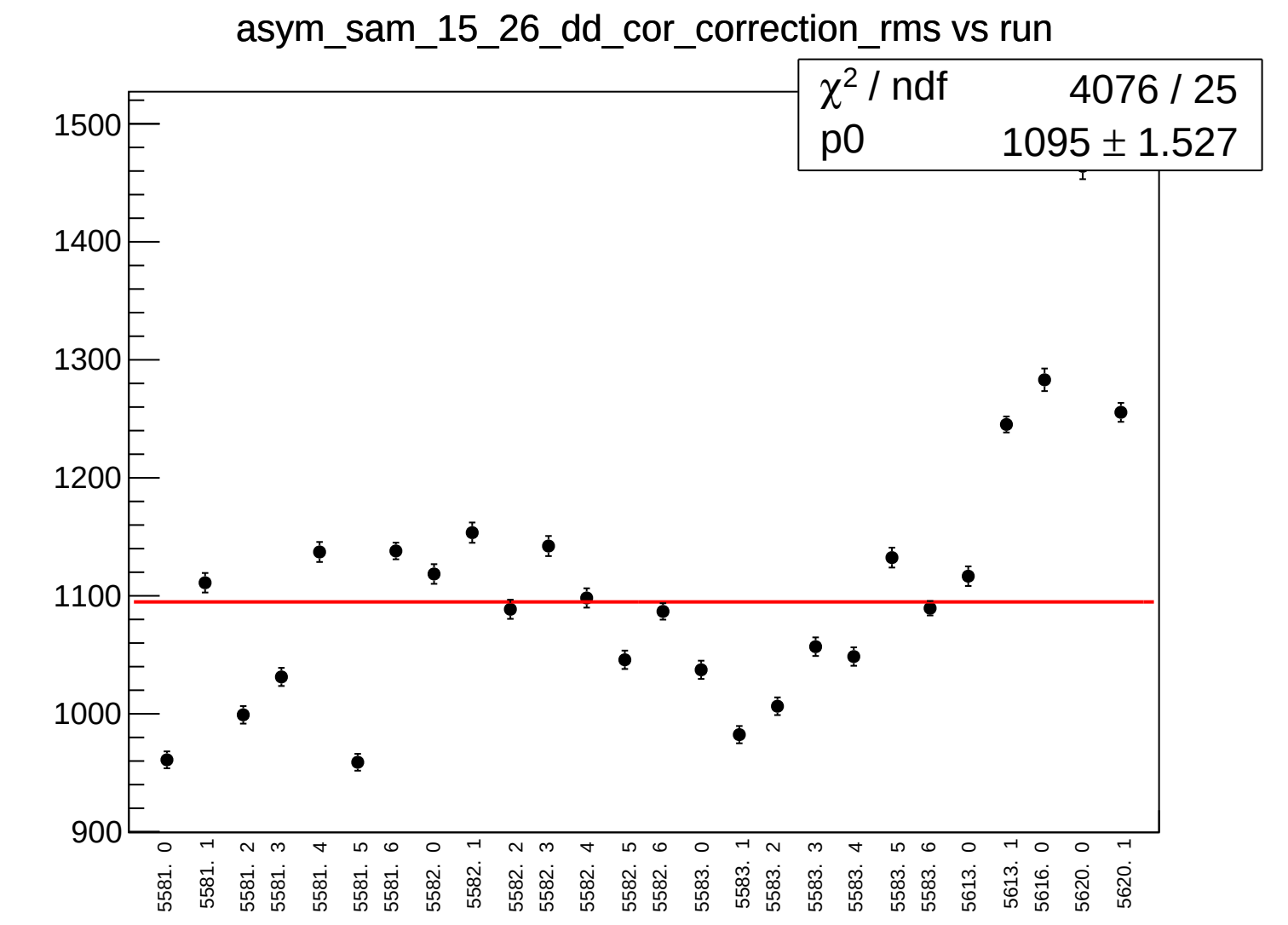

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 5209 / 32
p0 1118 ± 1.39
1350
1300
1250
1200
1150
1100
1050
1000
950
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

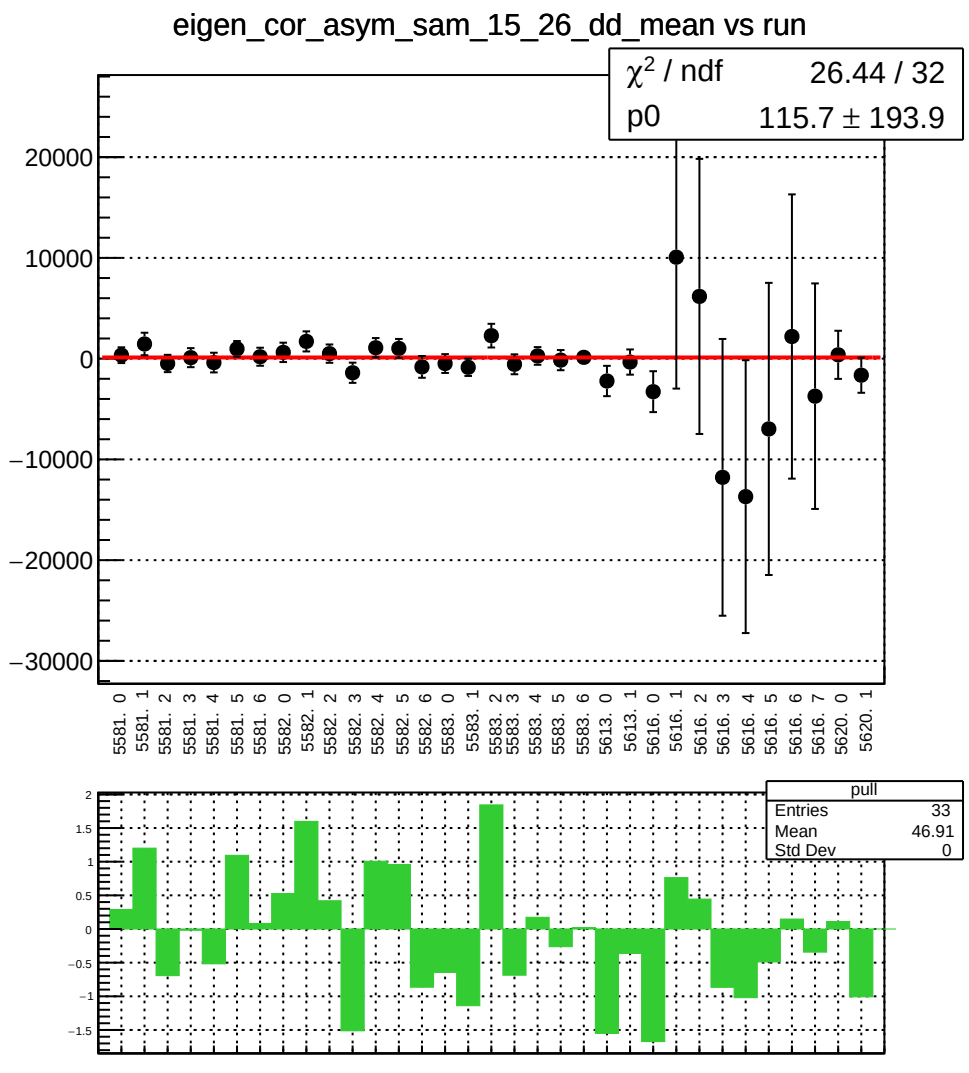

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 26.44 / 32
p0 115.7 ± 193.9
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 46.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

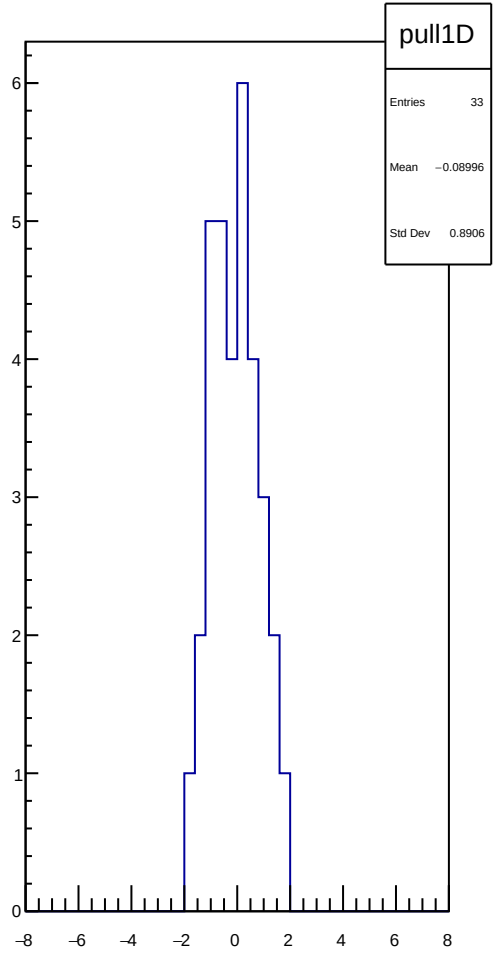

pull1D
Entries 33
Mean −0.08996
Std Dev 0.8906
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

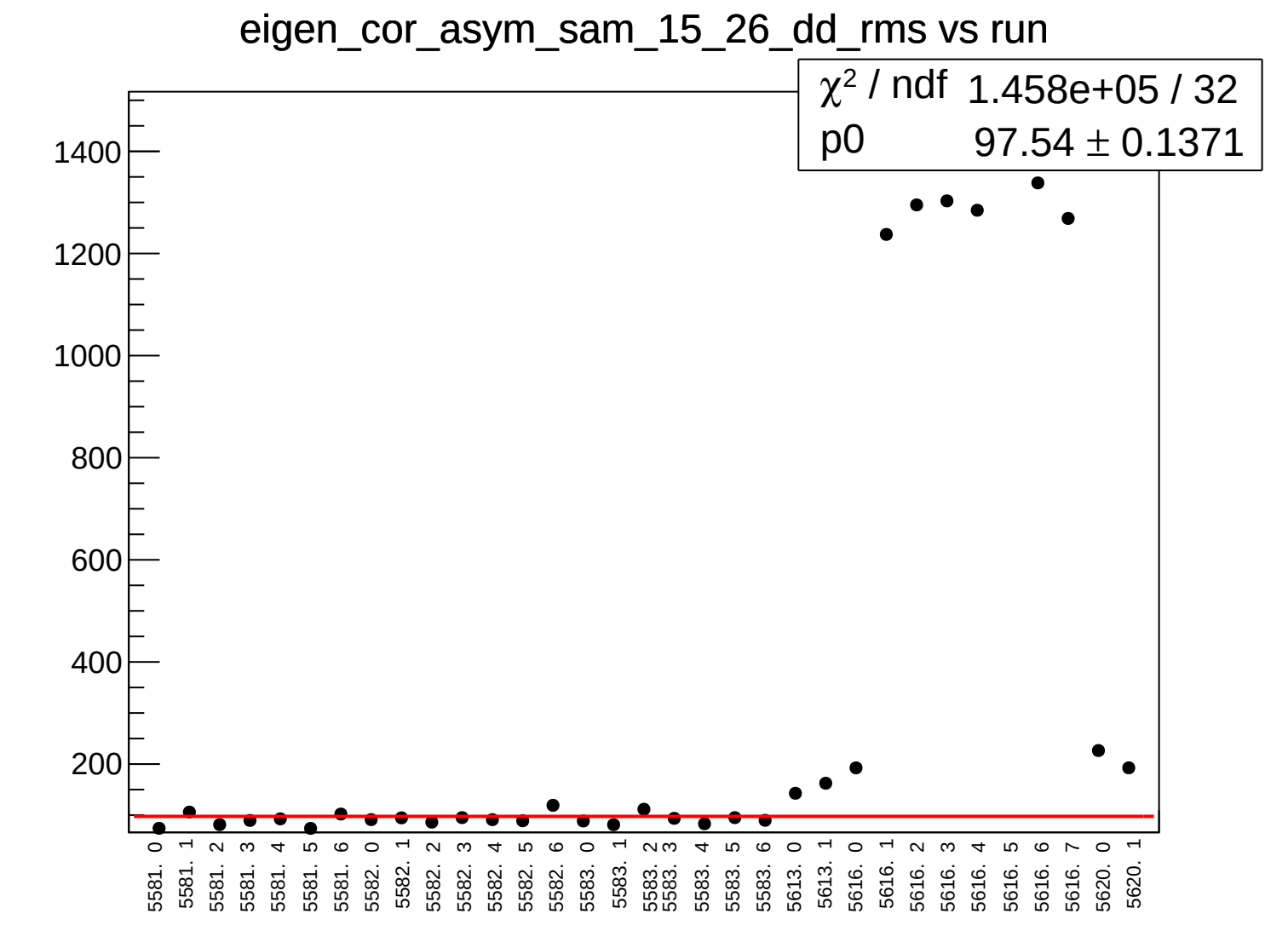

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.458e+05 / 32
p0 97.54 ± 0.1371
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

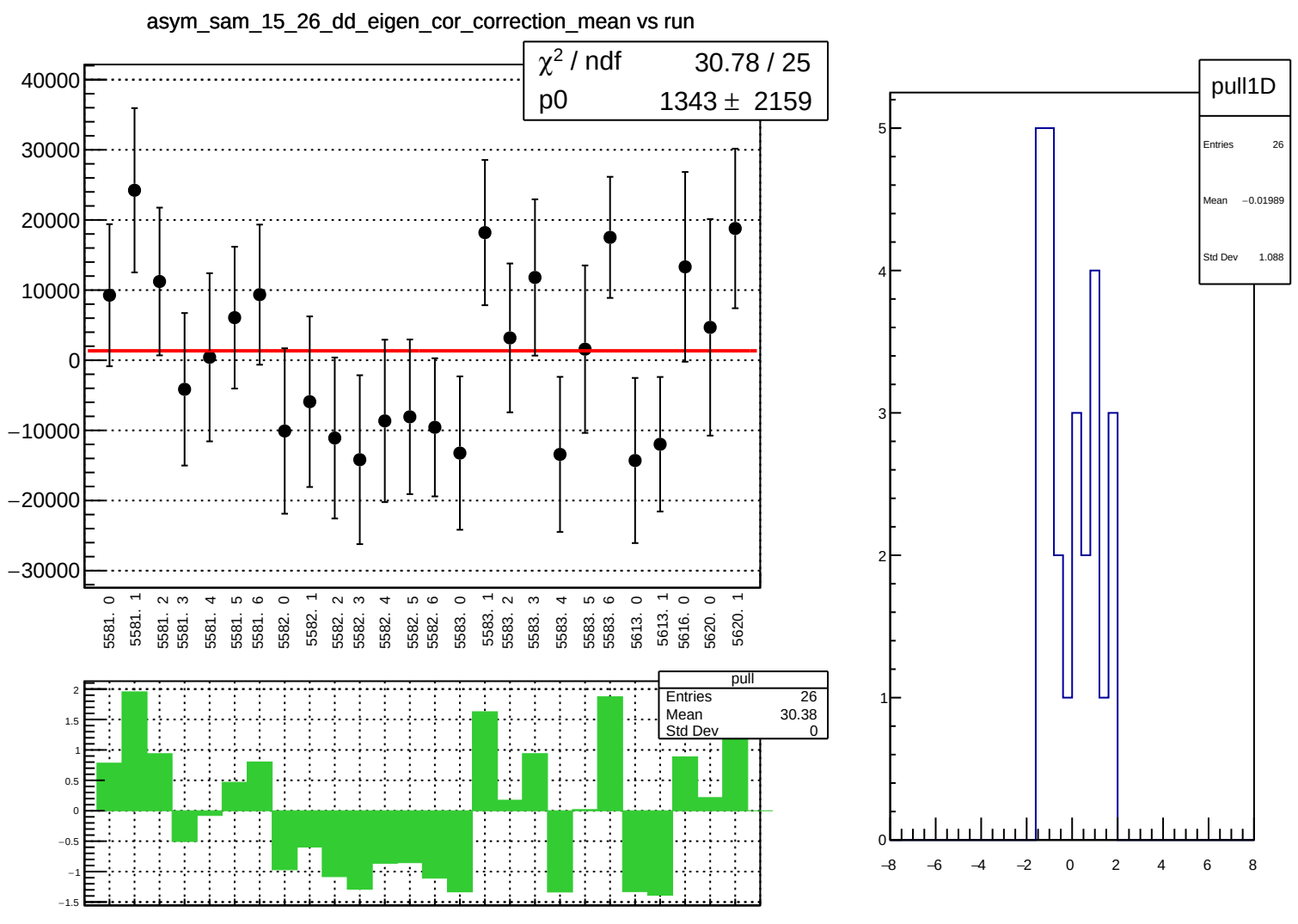

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 30.78 / 25
p0 1343 ± 2159
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 30.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.01989
Std Dev 1.088
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

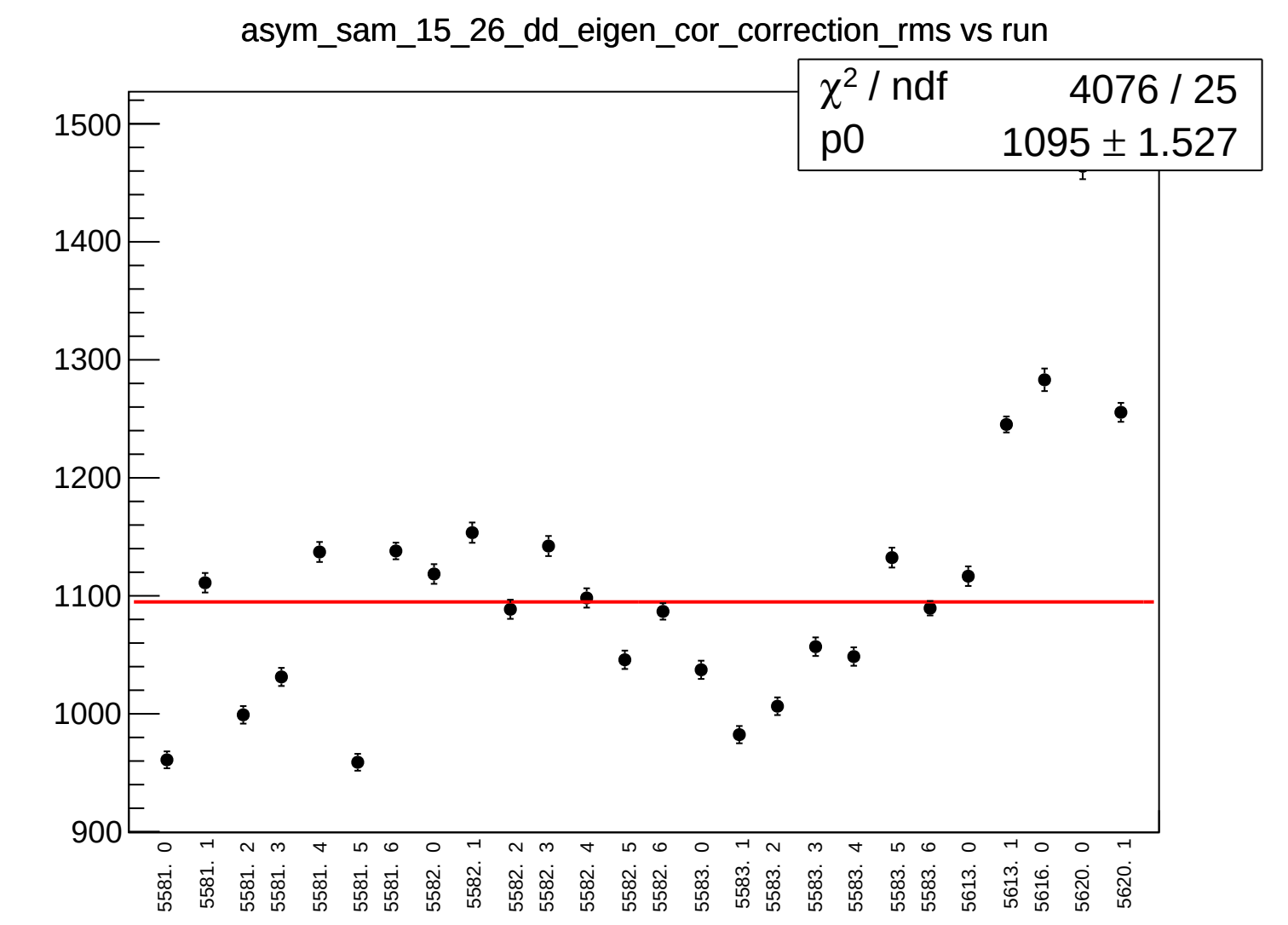

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 4076 / 25
p0 1095 ± 1.527
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

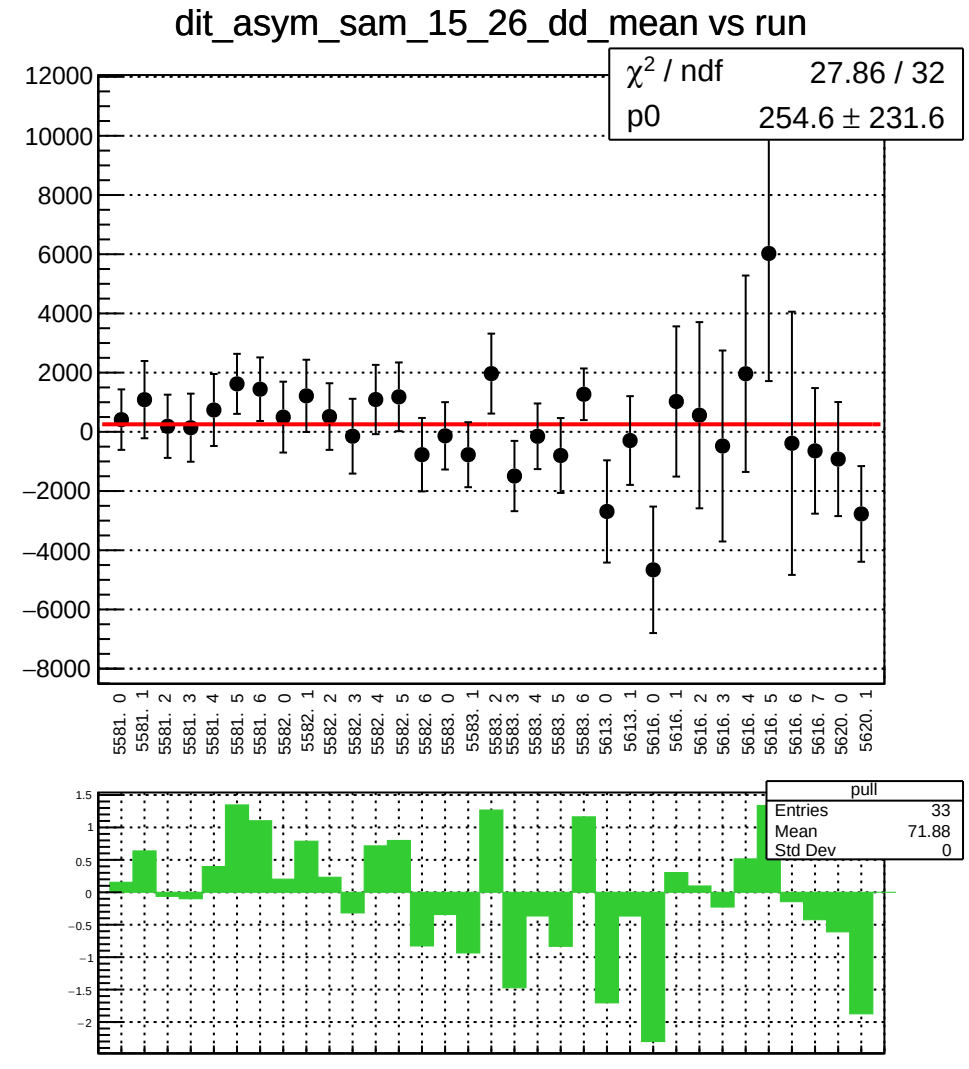

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 26.44 / 32
p0 115.7 ± 193.9
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 46.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

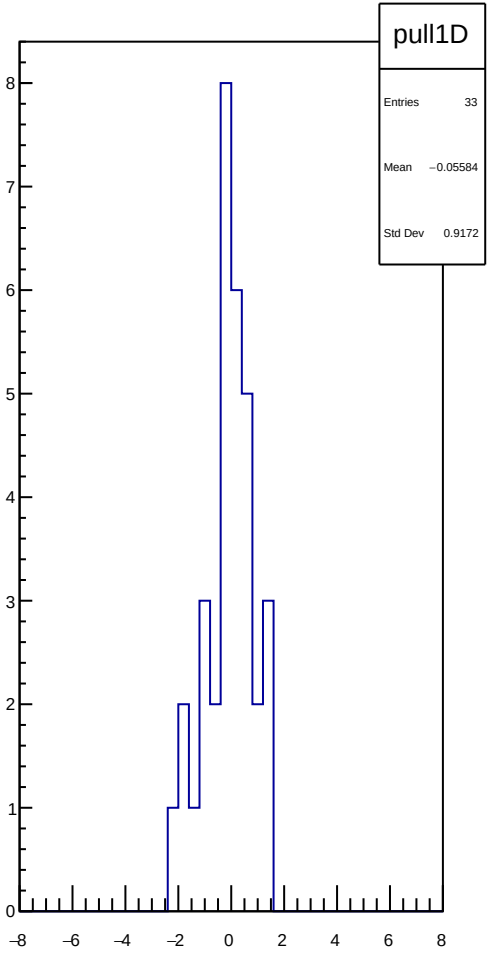

pull1D
Entries 33
Mean −0.08996
Std Dev 0.8906
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

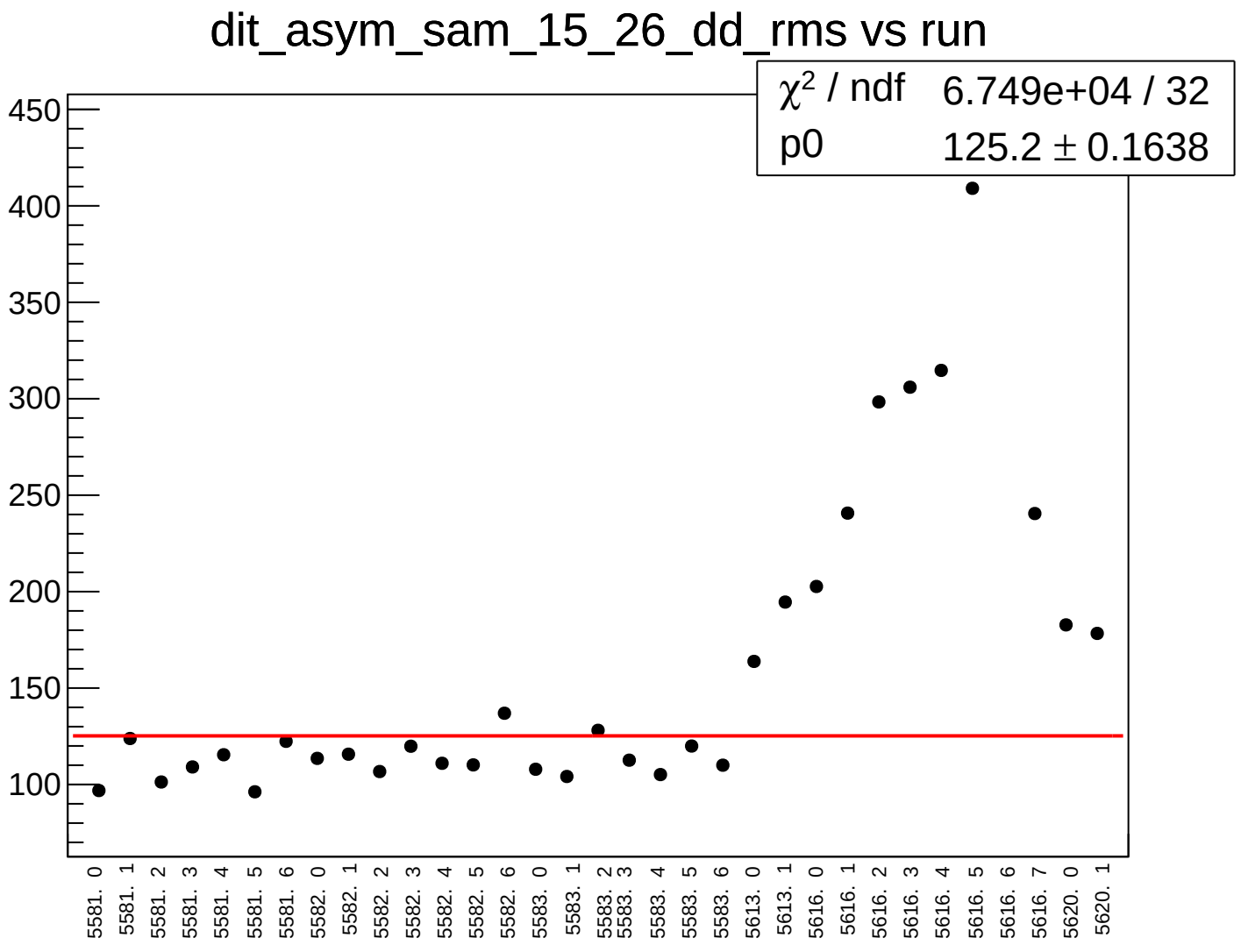

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.458e+05 / 32
p0 97.54 ± 0.1371
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

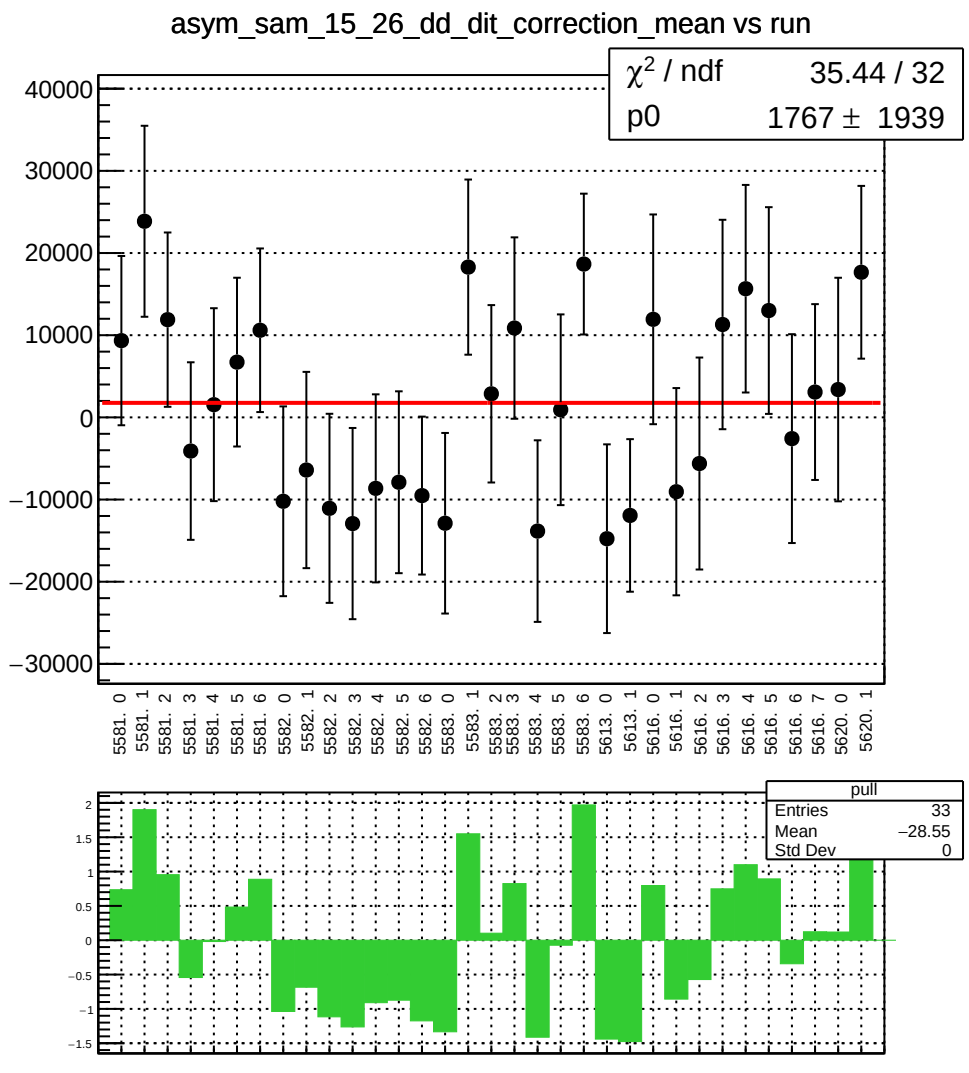

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 30.78 / 25
p0 1343 ± 2159
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 30.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 26
Mean −0.01989
Std Dev 1.088
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

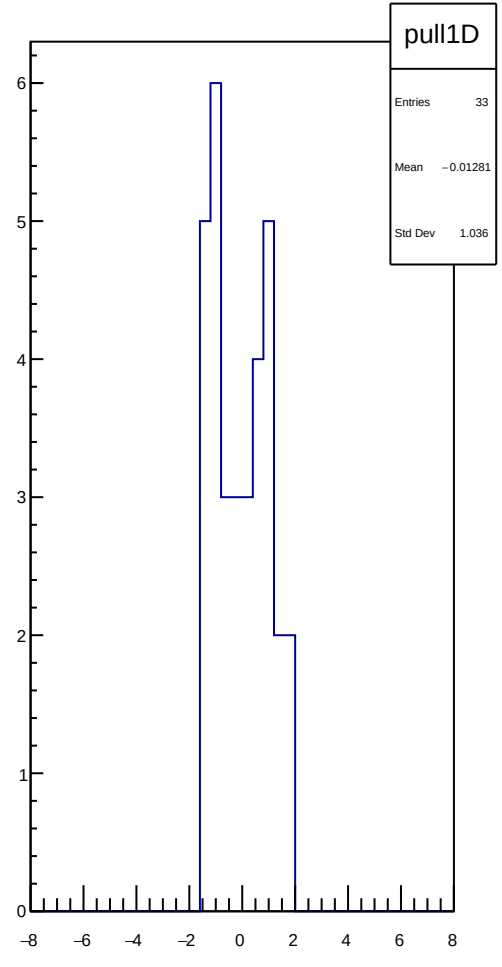

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4076 / 25
p0 1095 ± 1.527
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

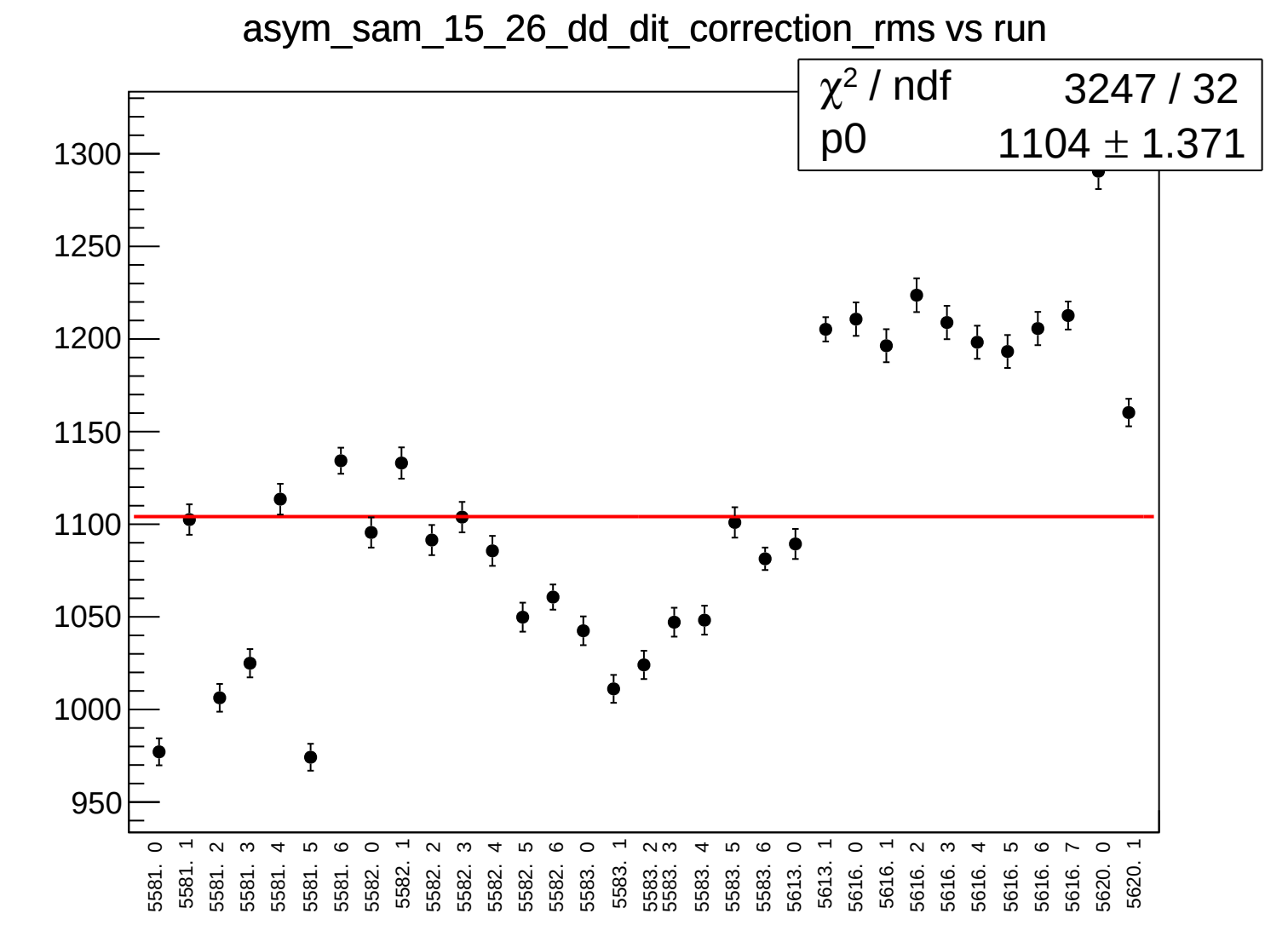

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 27.86 / 32
p0 254.6 ± 231.6
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 71.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

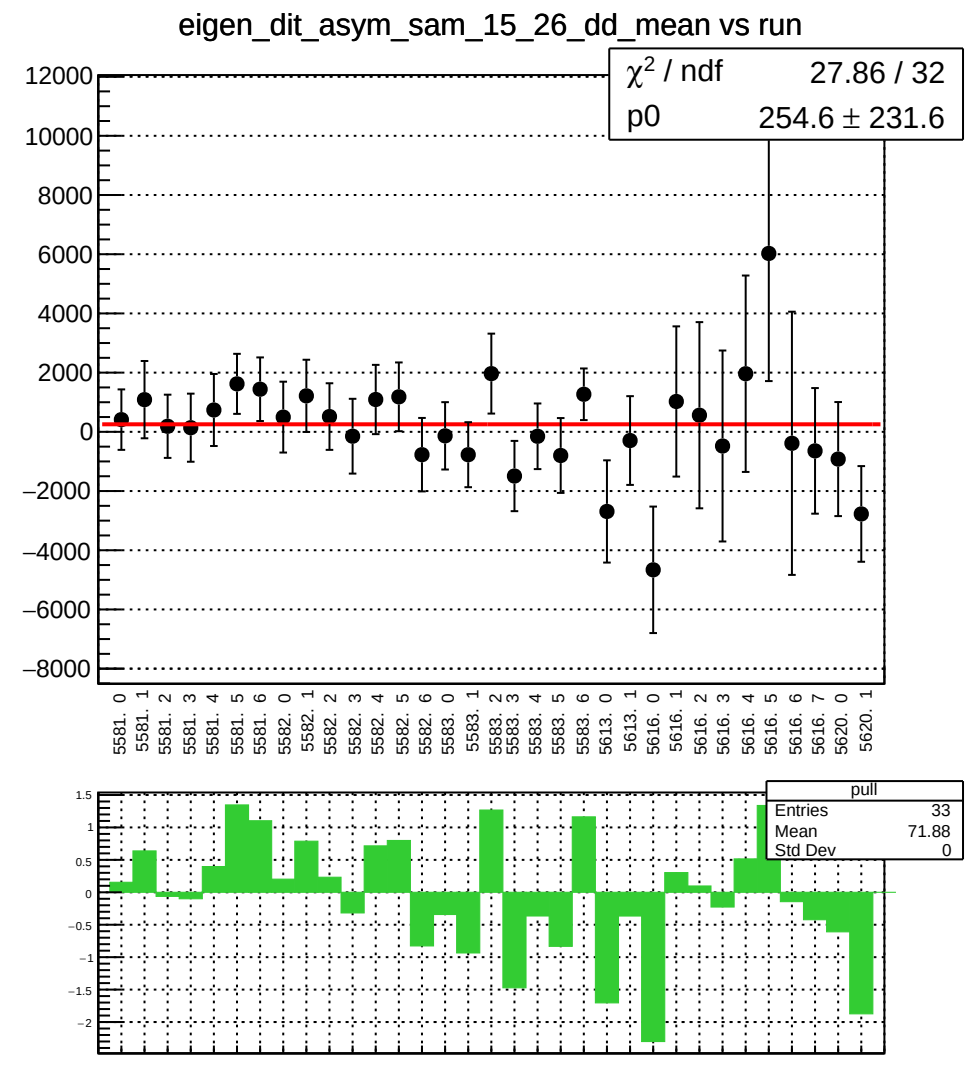

pull1D
Entries 33
Mean −0.05584
Std Dev 0.9172
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

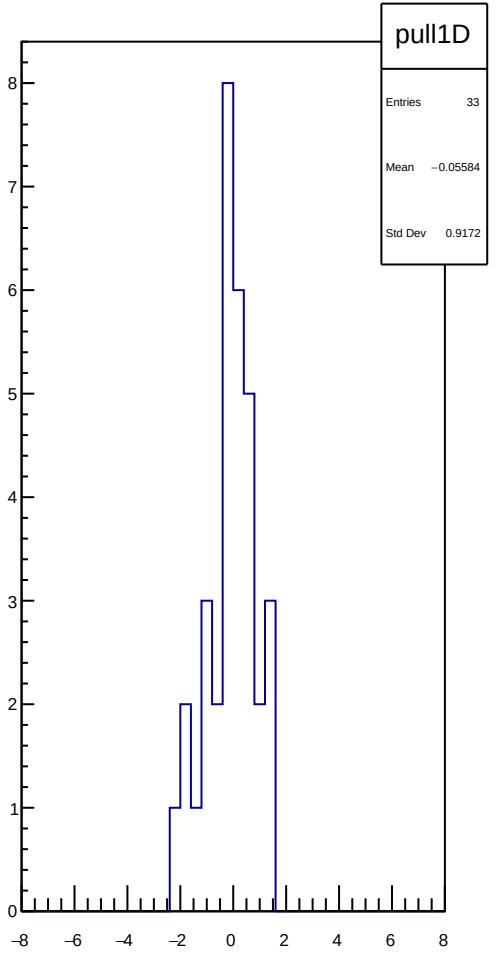

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 6.749e+04 / 32
p0 125.2 ± 0.1638
450
400
350
300
250
200
150
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

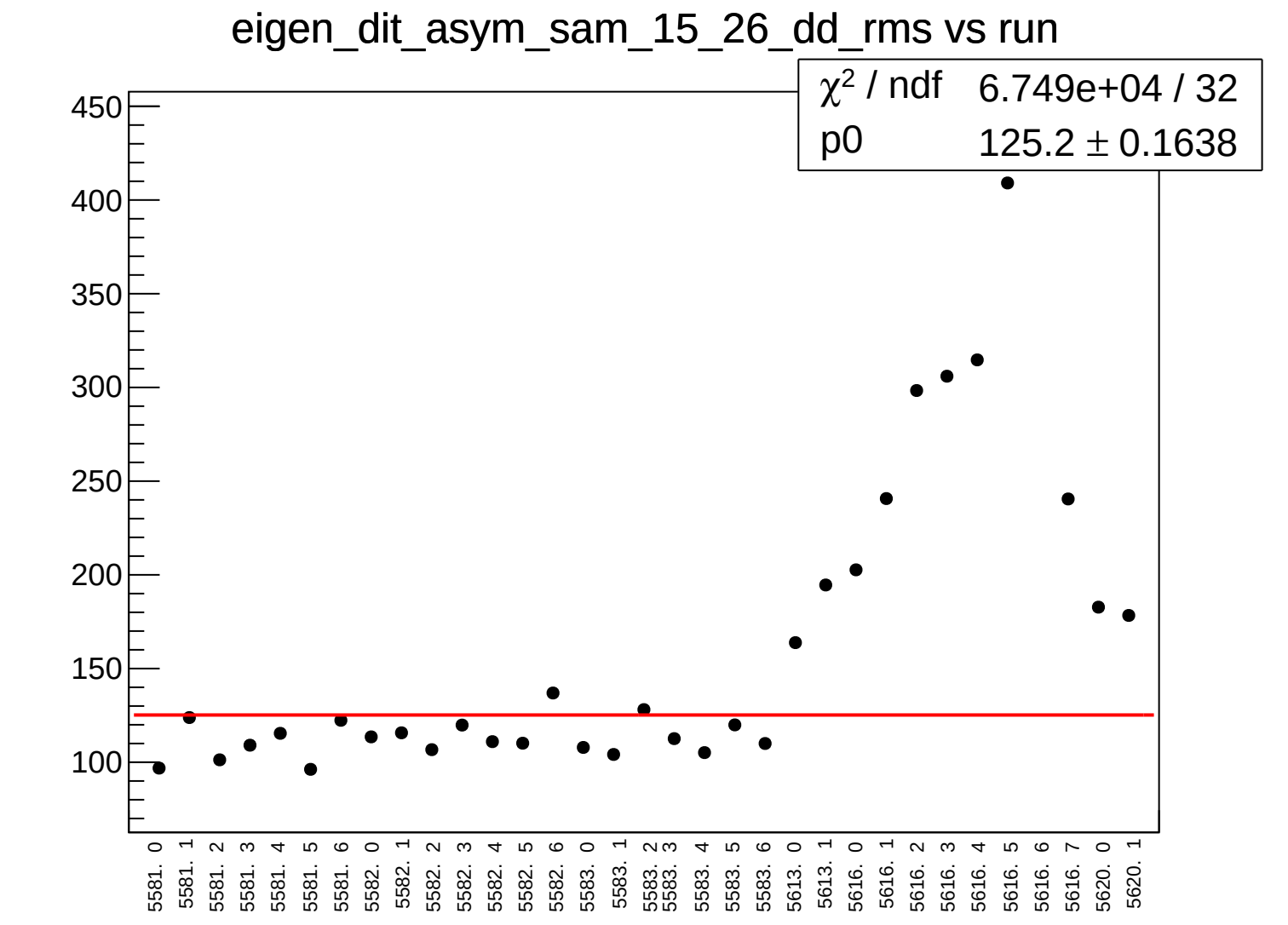

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 35.44 / 32
p0 1767 ± 1939
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −28.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

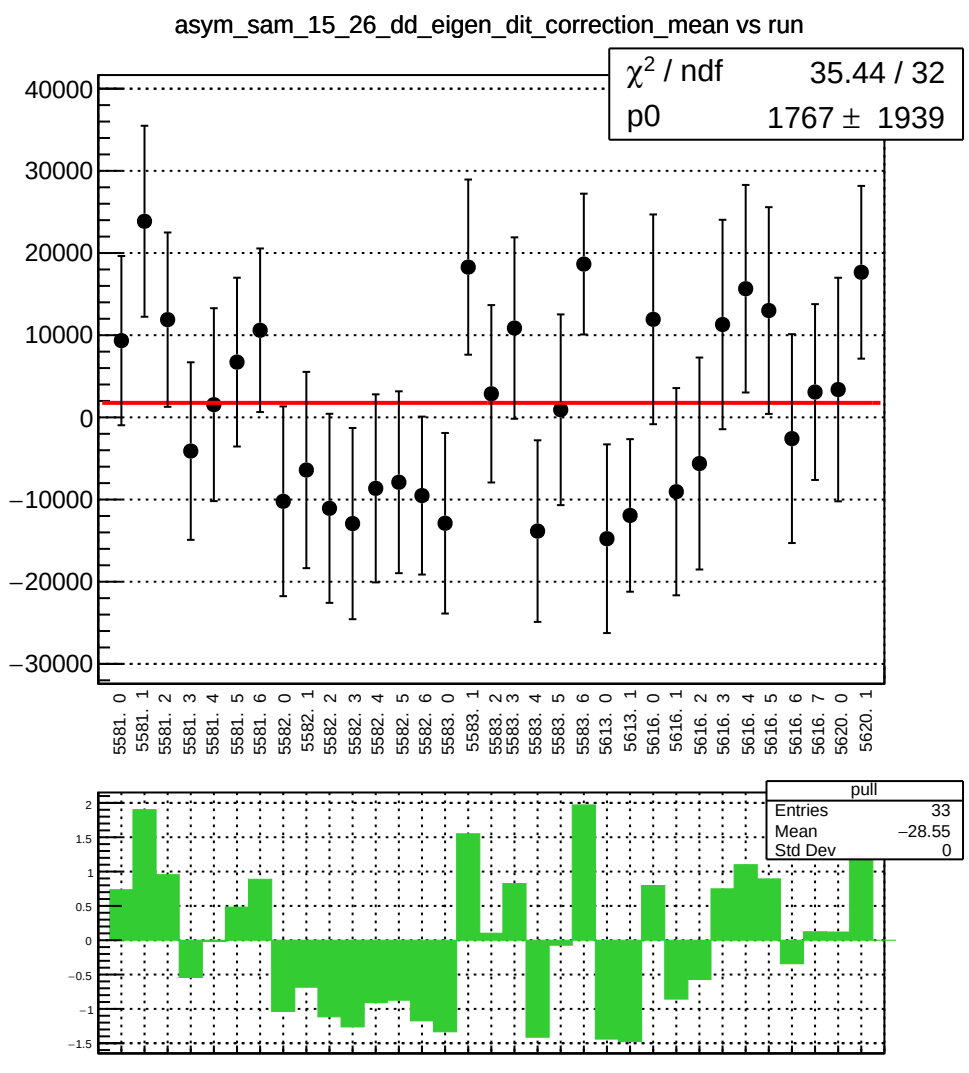

pull1D
Entries 33
Mean −0.01281
Std Dev 1.036
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

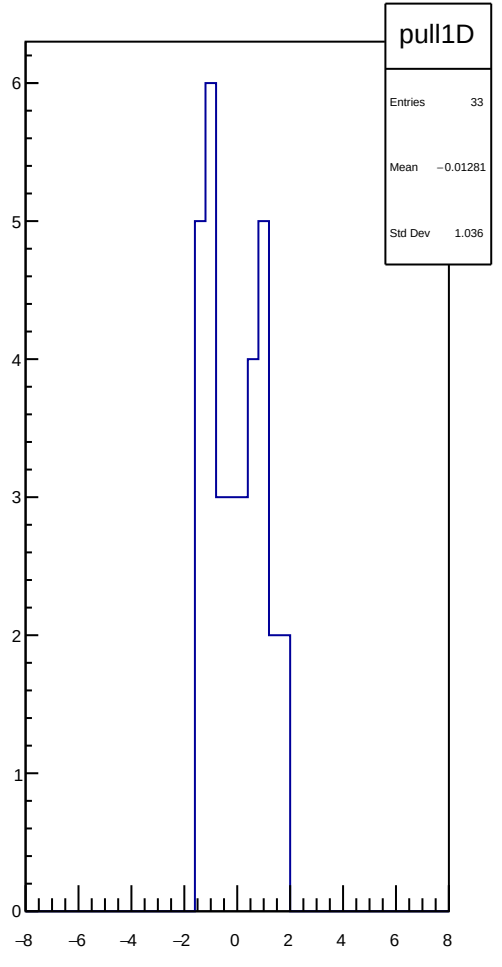

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 3247 / 32
p0 1104 ± 1.371
1300
1250
1200
1150
1100
1050
1000
950
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

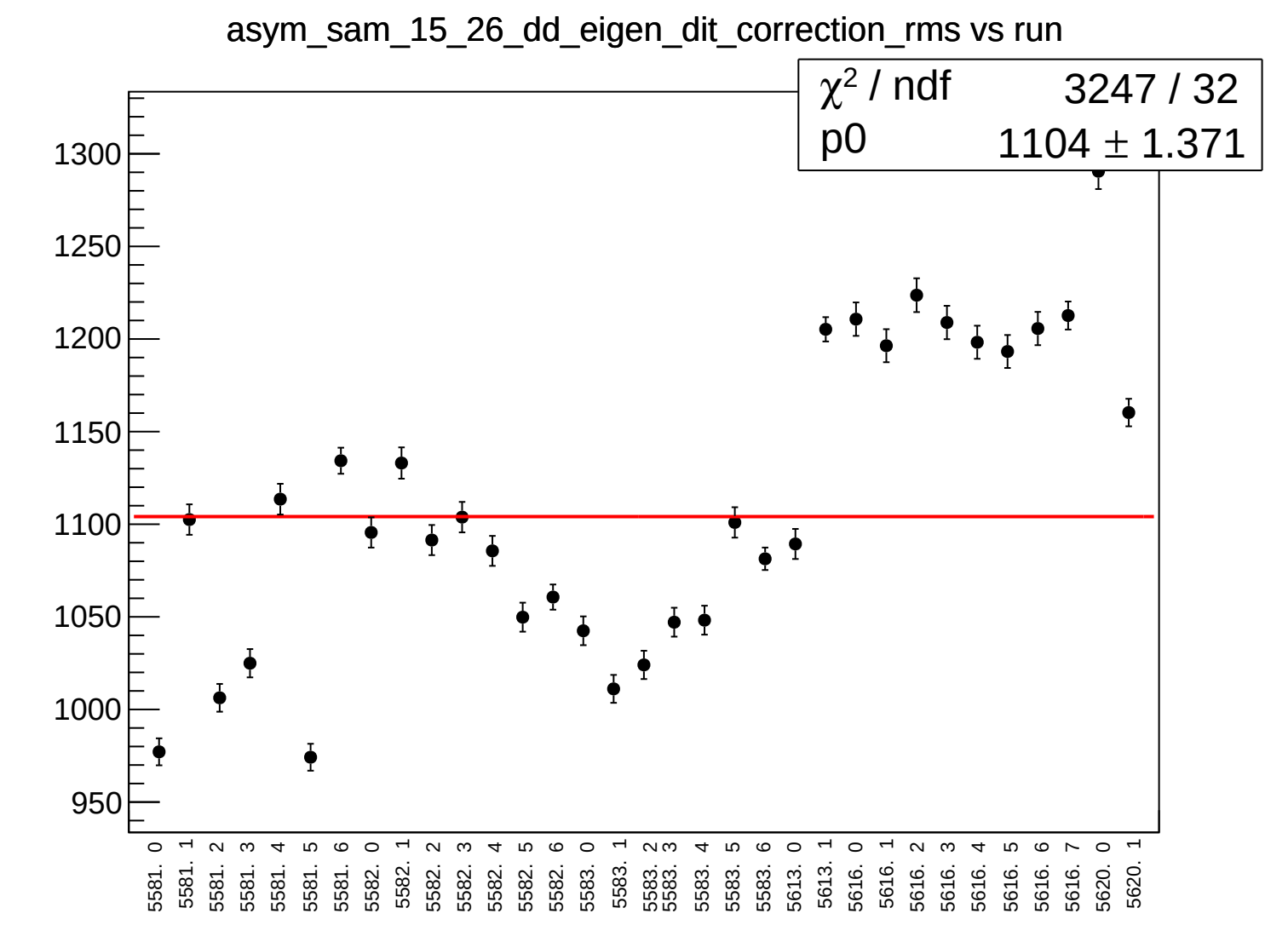

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 27.86 / 32
p0 254.6 ± 231.6
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 71.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

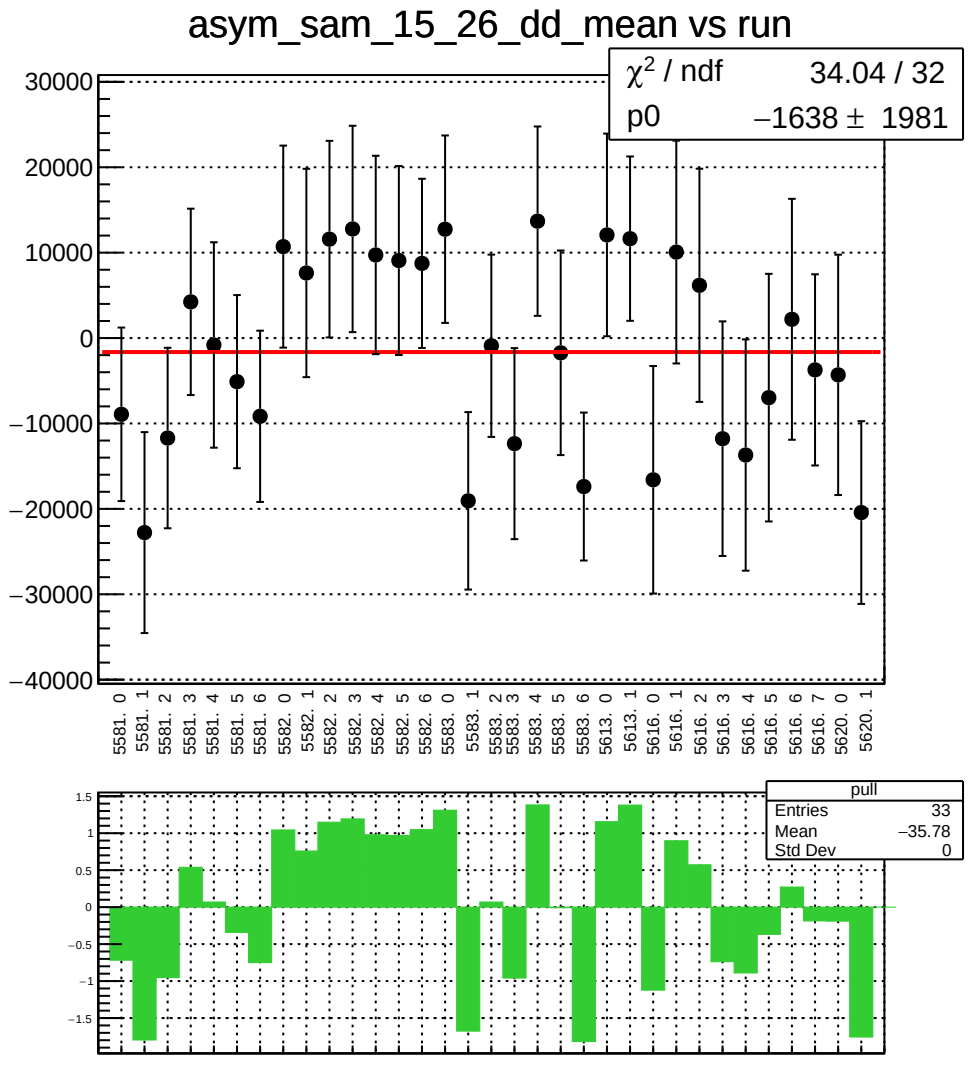

pull1D
Entries 33
Mean −0.05584
Std Dev 0.9172
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

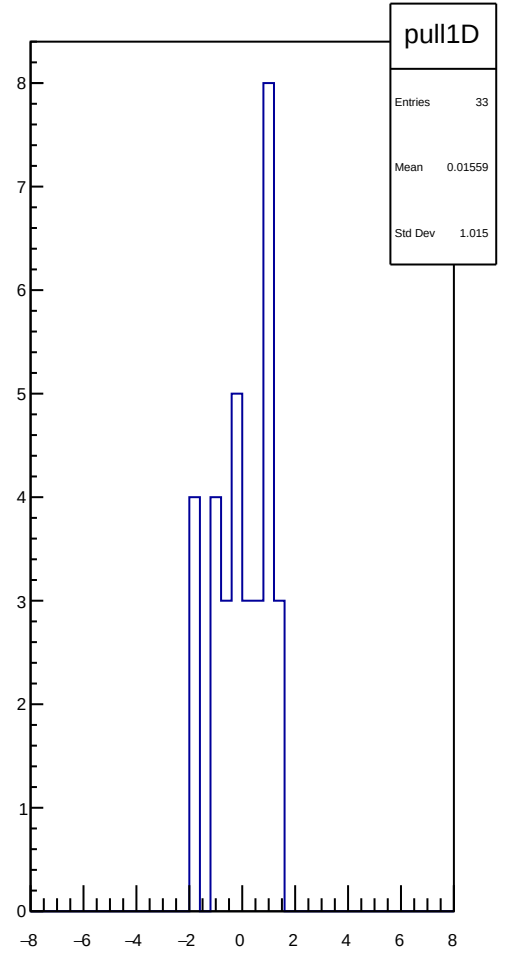

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 6.749e+04 / 32
p0 125.2 ± 0.1638
450
400
350
300
250
200
150
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

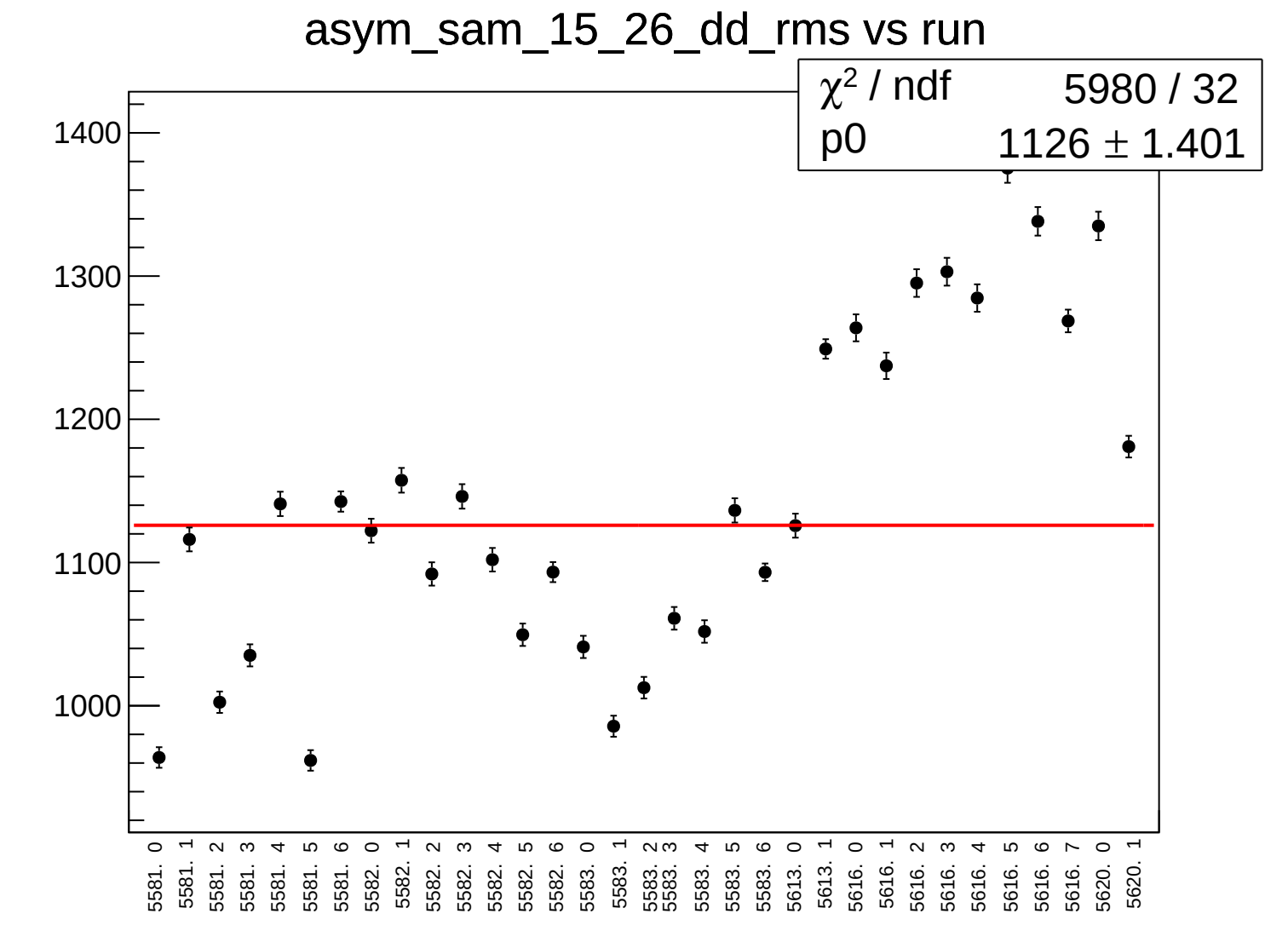

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 35.44 / 32
p0 1767 ± 1939
40000
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −28.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

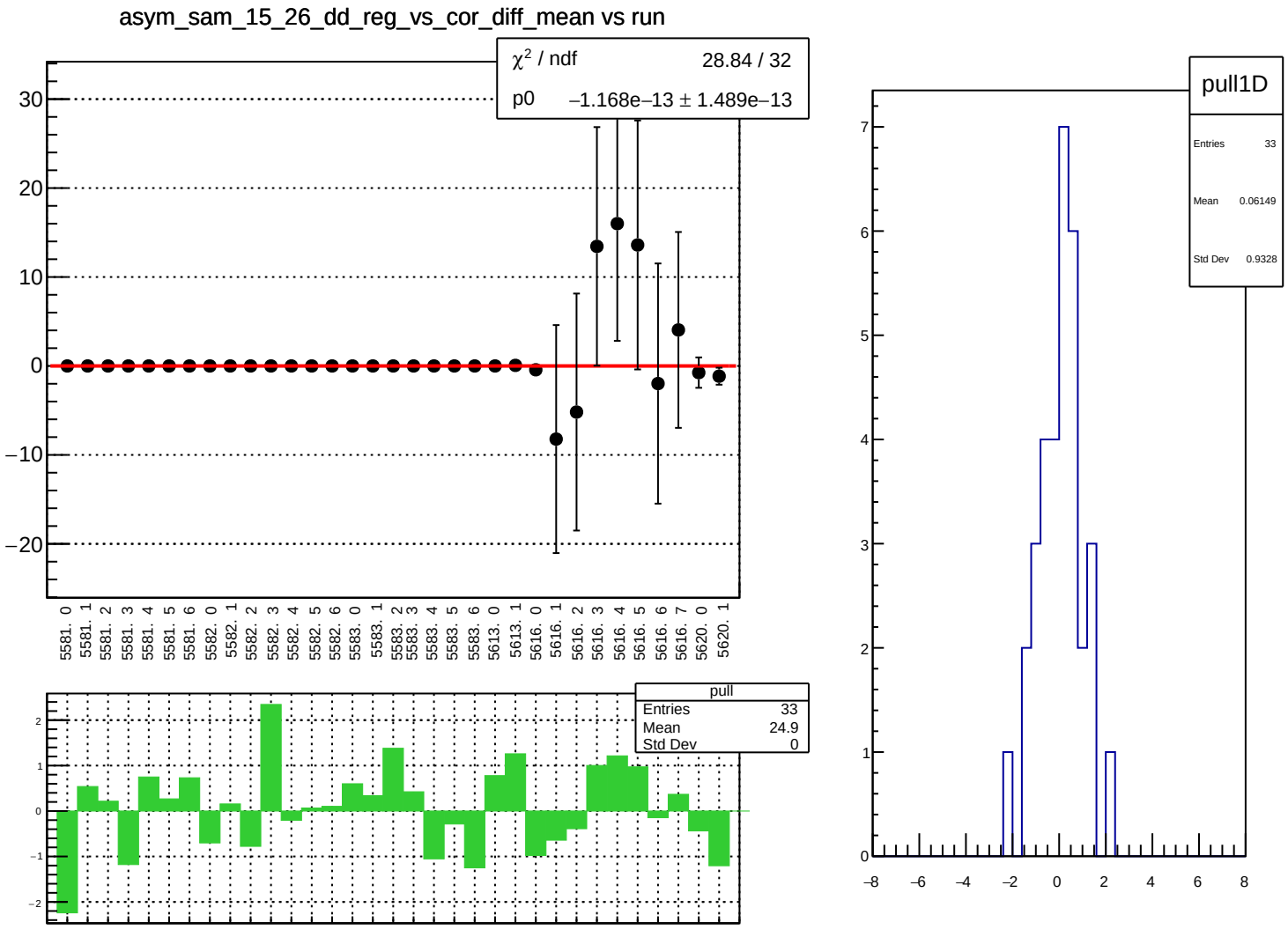

pull1D
Entries 33
Mean −0.01281
Std Dev 1.036
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

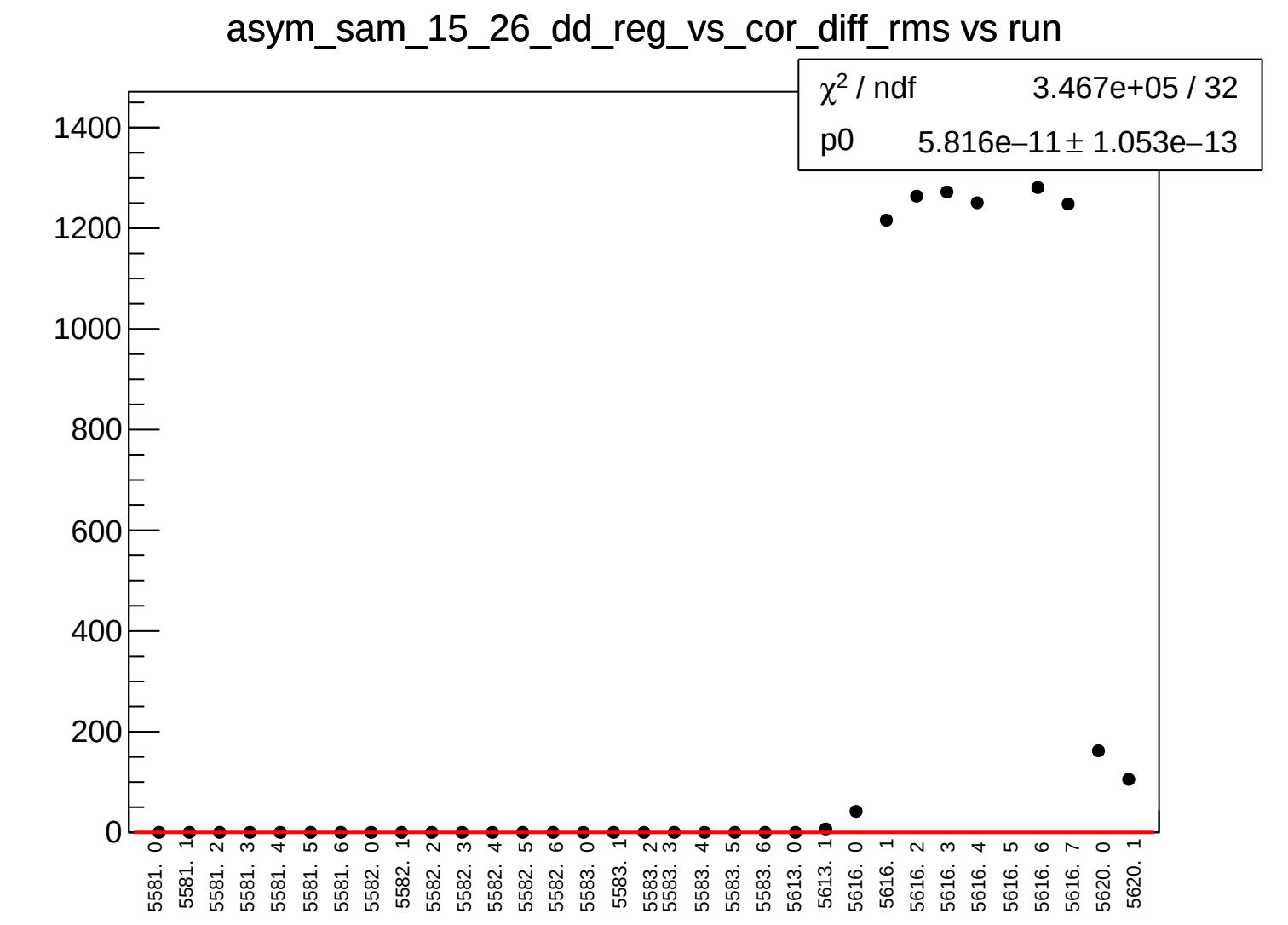

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3247 / 32
p0 1104 ± 1.371
1300
1250
1200
1150
1100
1050
1000
950
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

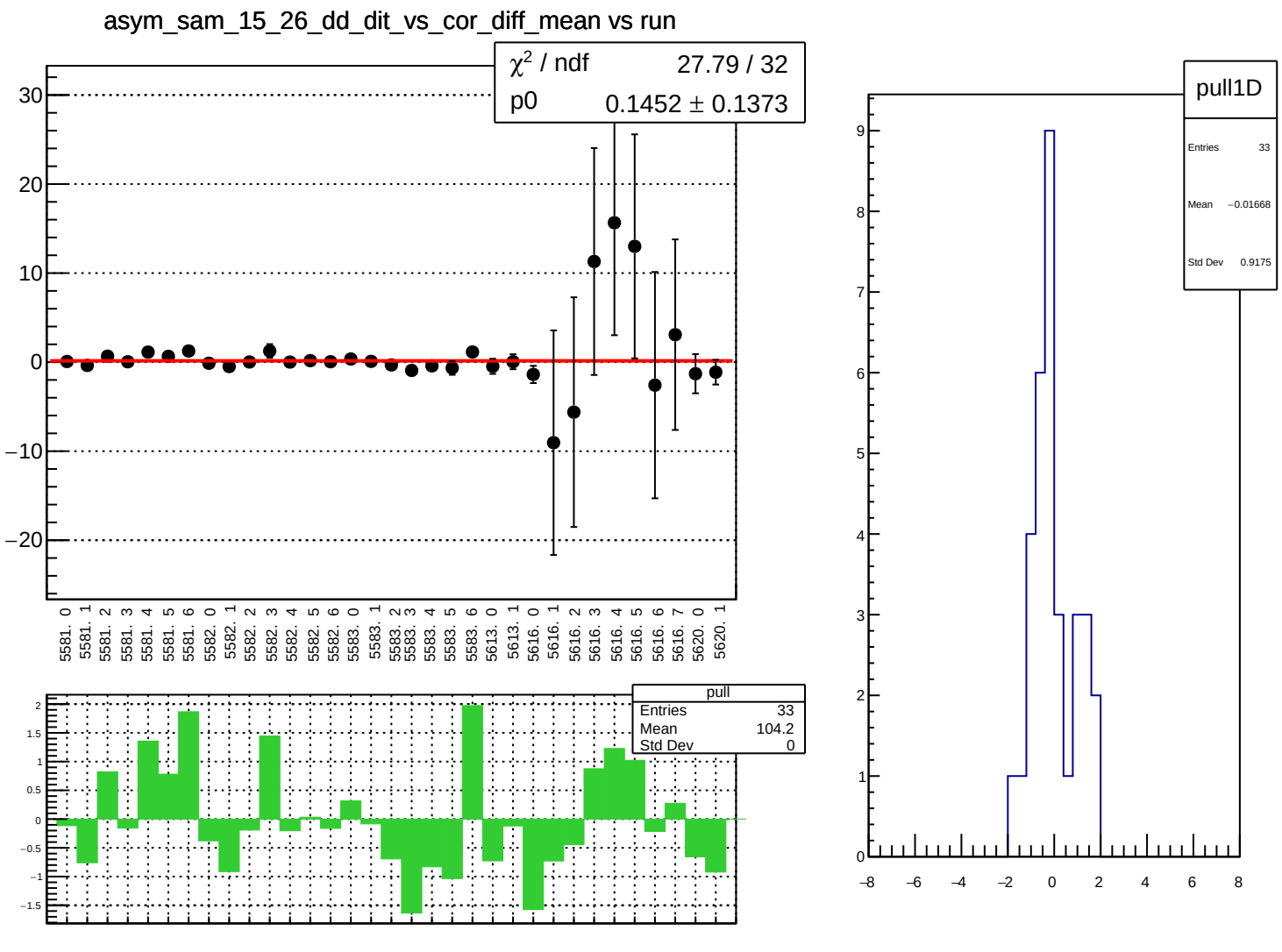

asym_sam_15_26_dd_mean vs run
χ² / ndf 34.04 / 32
p0 −1638 ± 1981
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −35.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

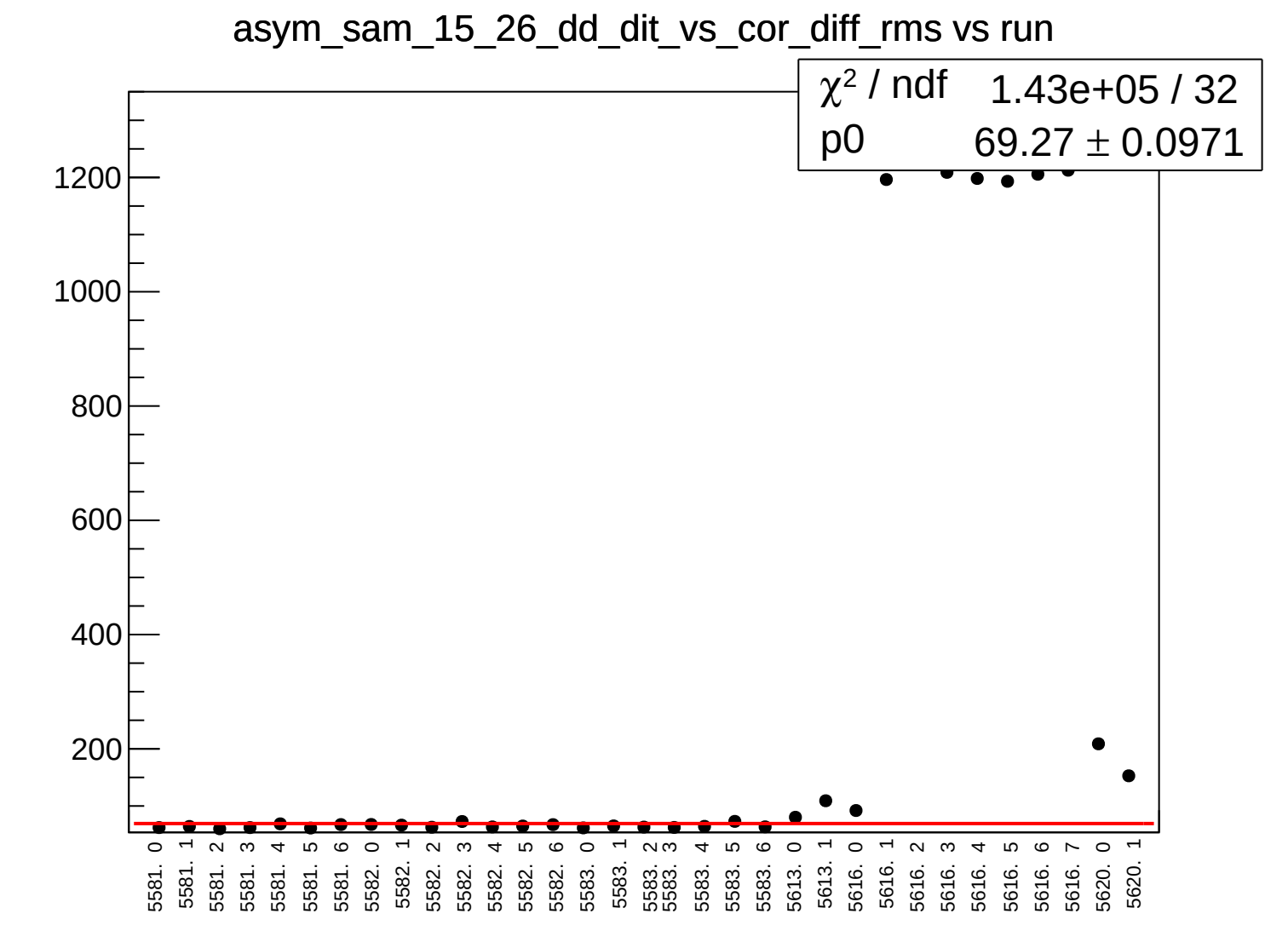

pull1D
Entries 33
Mean 0.01559
Std Dev 1.015
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

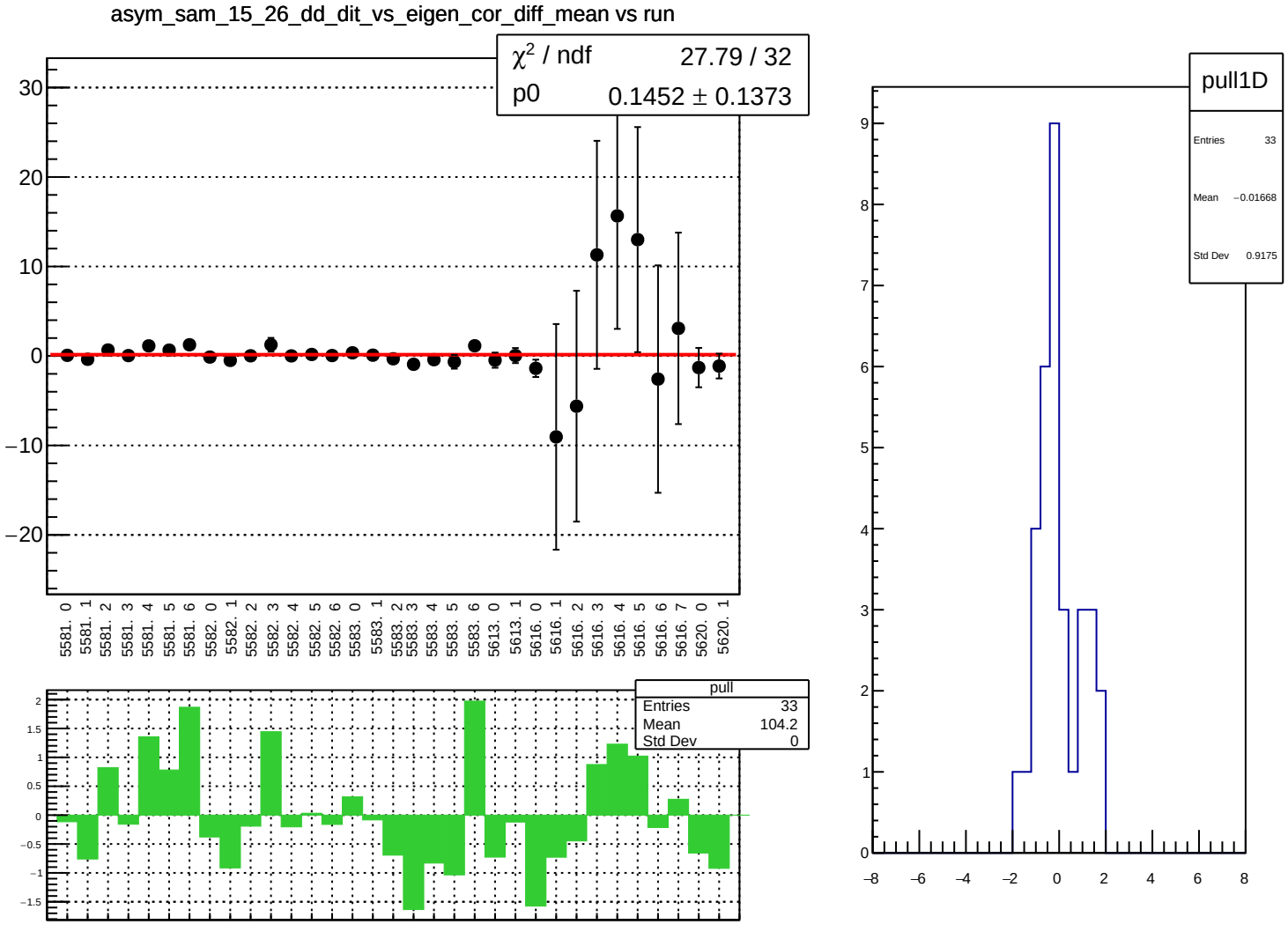

asym_sam_15_26_dd_rms vs run
χ² / ndf 5980 / 32
p0 1126 ± 1.401
1400
1300
1200
1100
1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

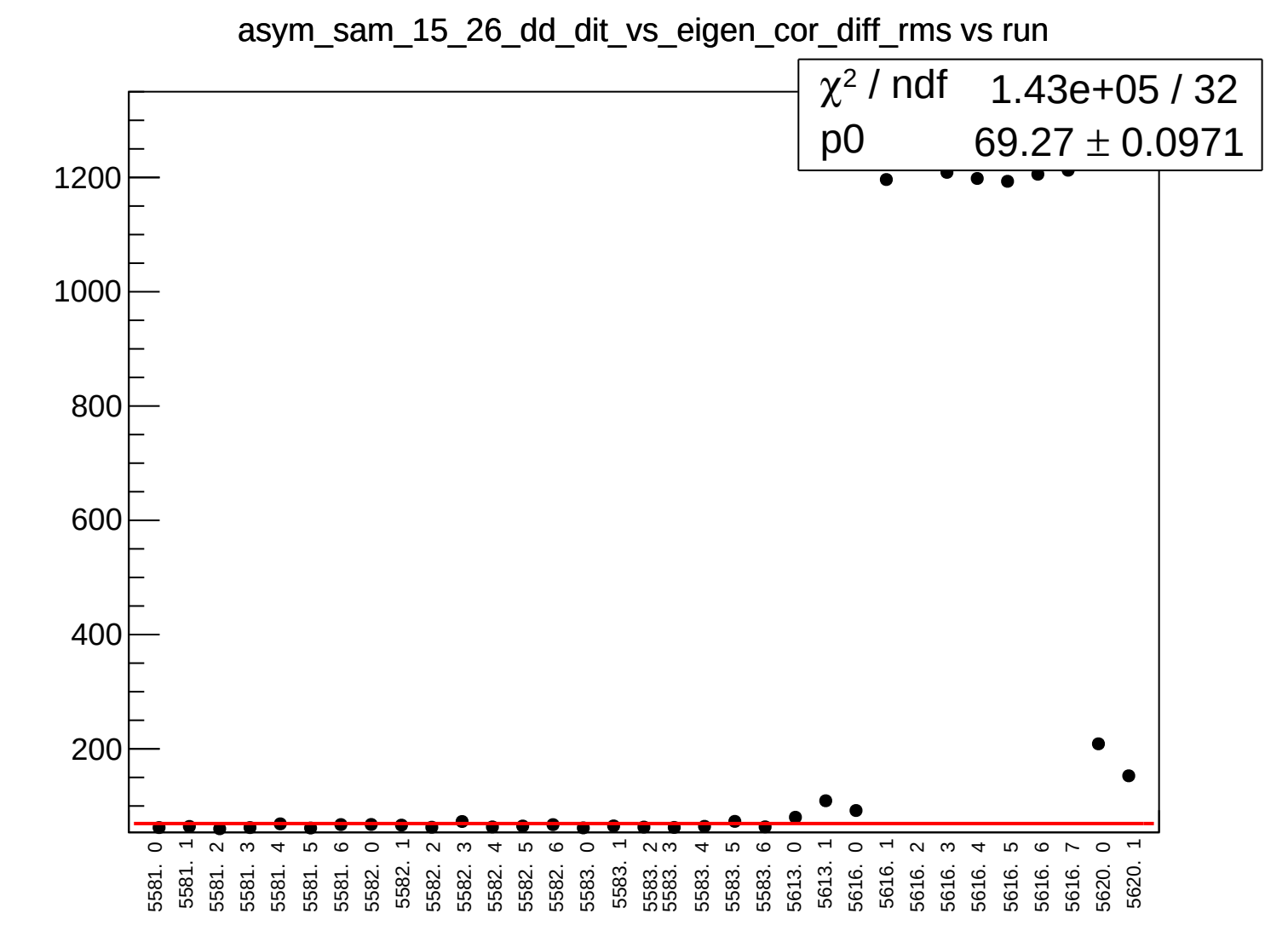

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 28.84 / 32
p0 −1.168e−13 ± 1.489e−13
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.06149
Std Dev 0.9328
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

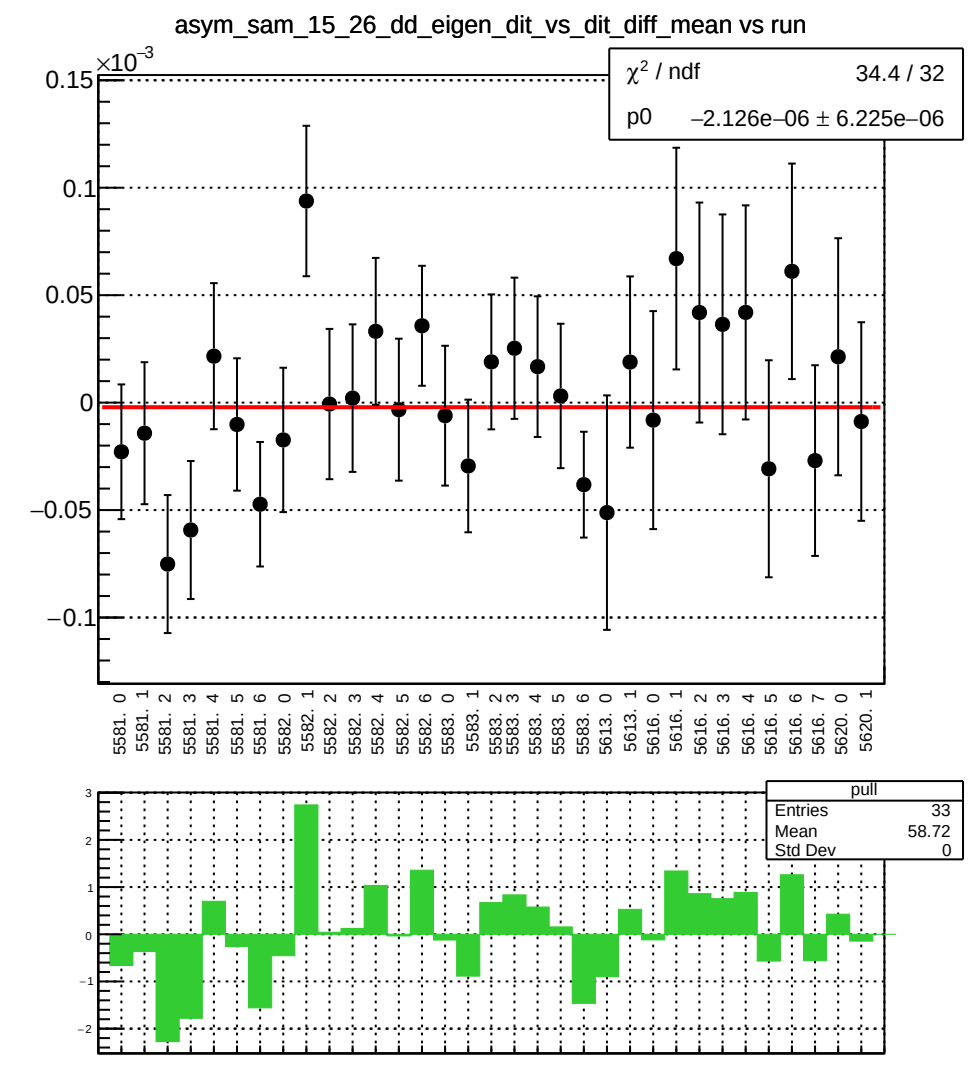

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.467e+05 / 32
p0 5.816e−11 ± 1.053e−13
1400
1200
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

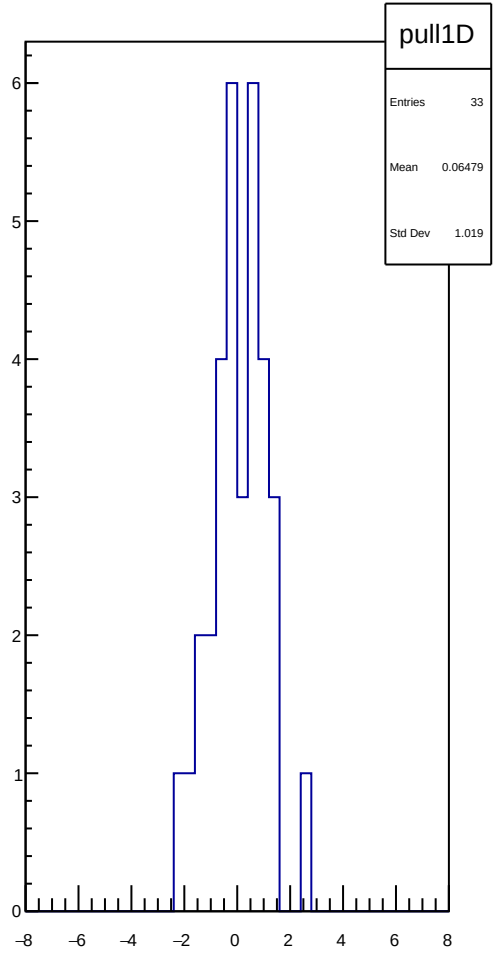

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 27.79 / 32
p0 0.1452 ± 0.1373
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 104.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.01668
Std Dev 0.9175
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

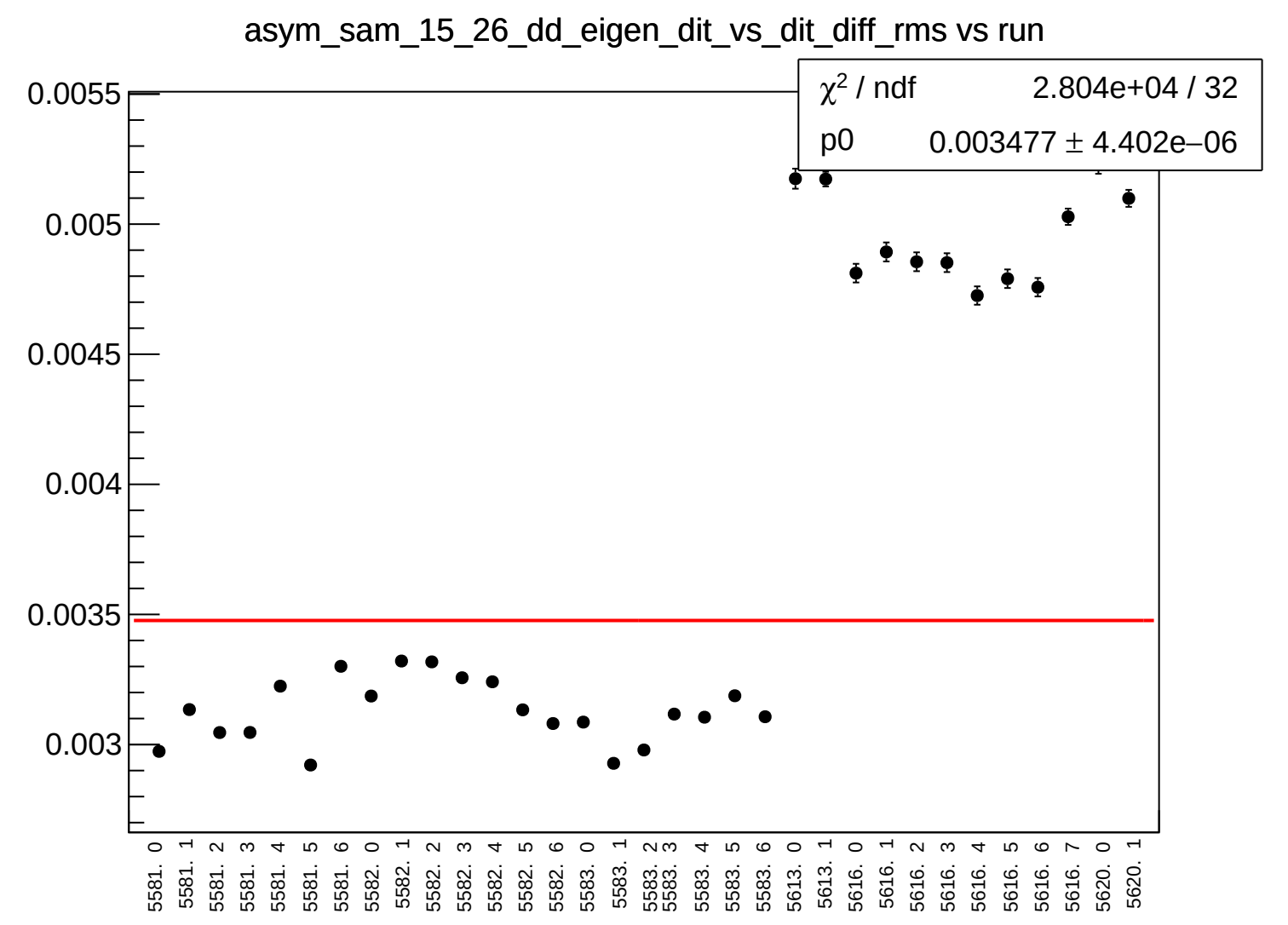

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.43e+05 / 32
p0 69.27 ± 0.0971
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

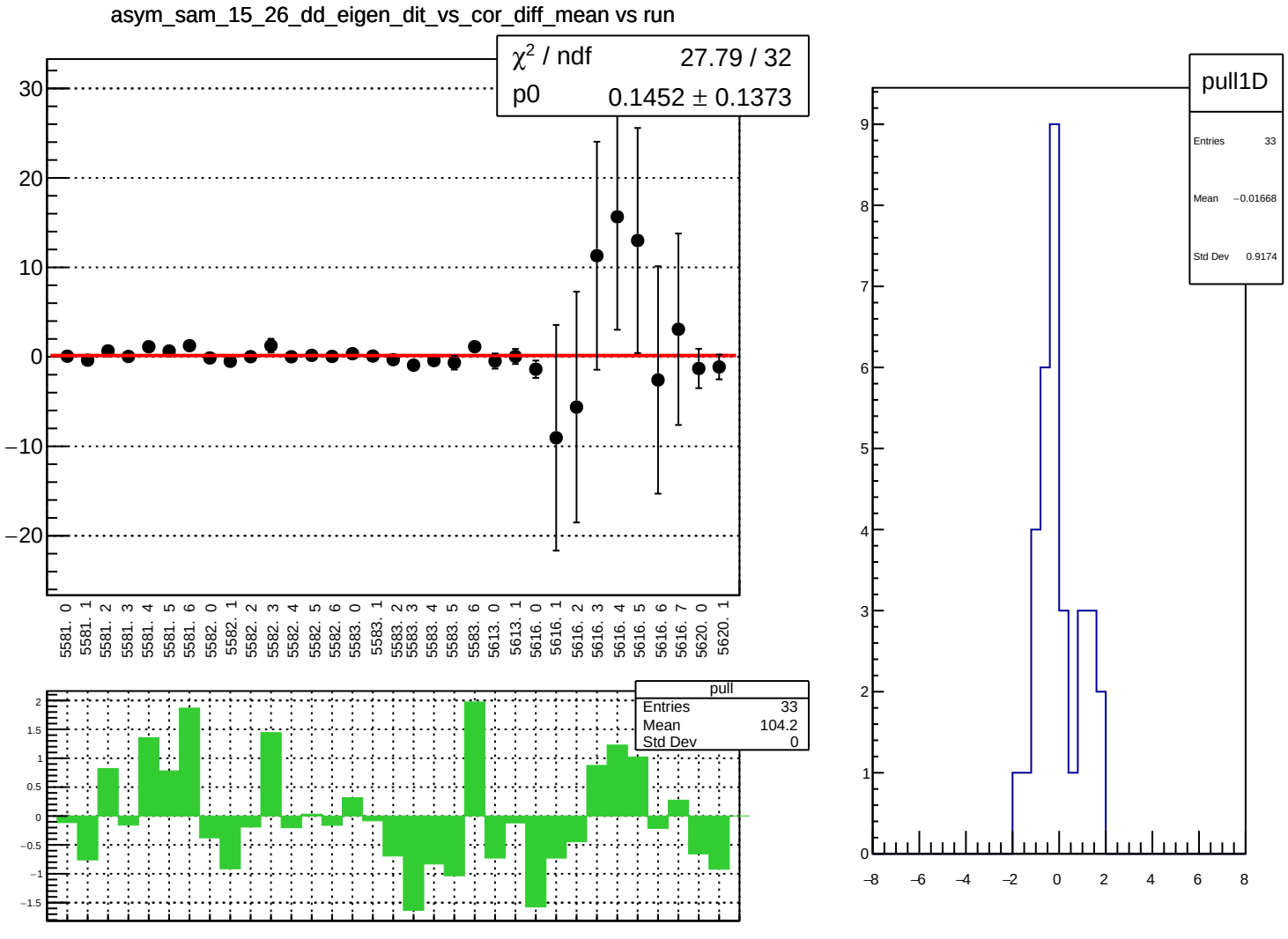

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.79 / 32
p0 0.1452 ± 0.1373
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 104.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.01668
Std Dev 0.9175
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

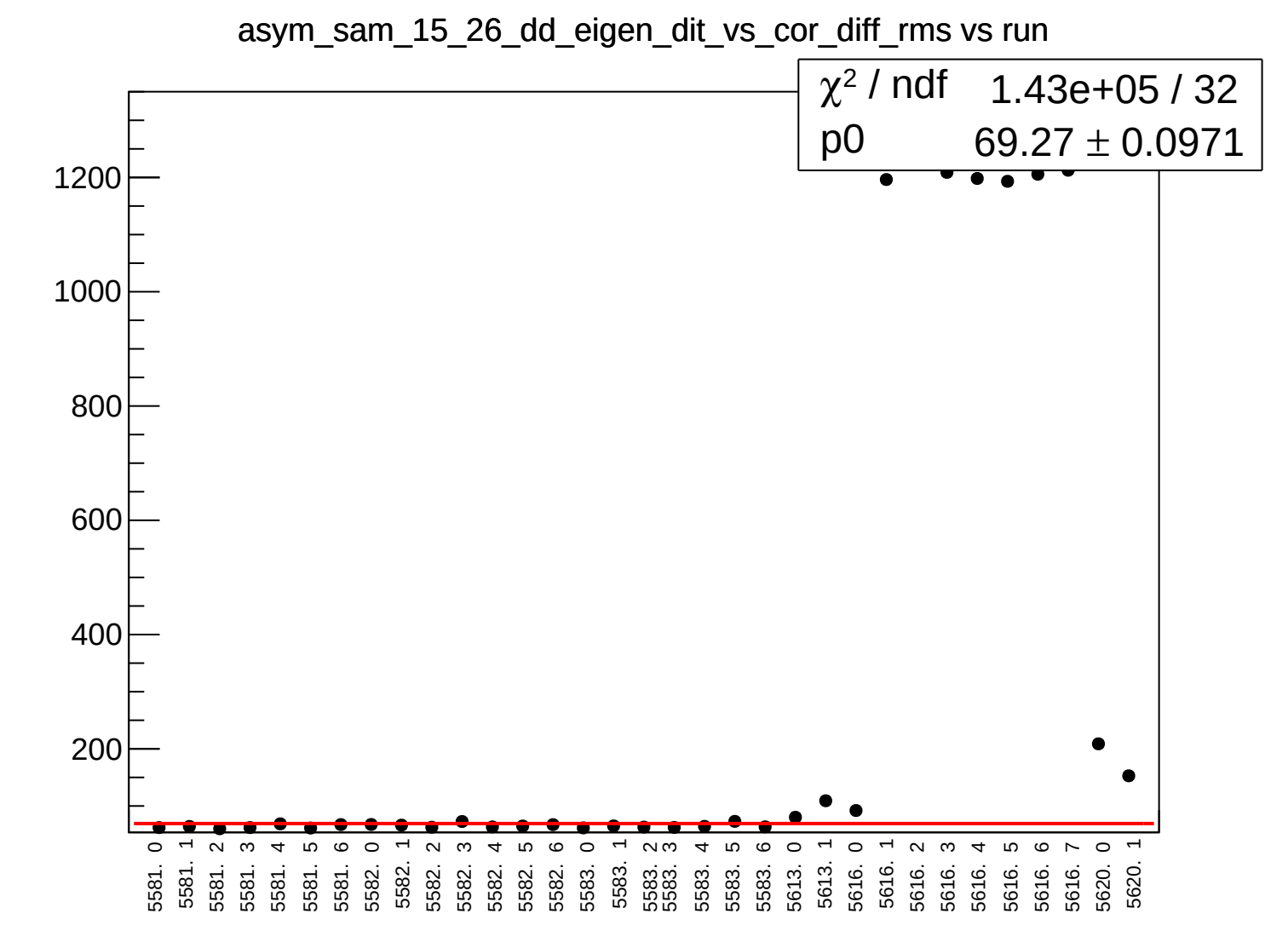

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.43e+05 / 32
p0 69.27 ± 0.0971
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

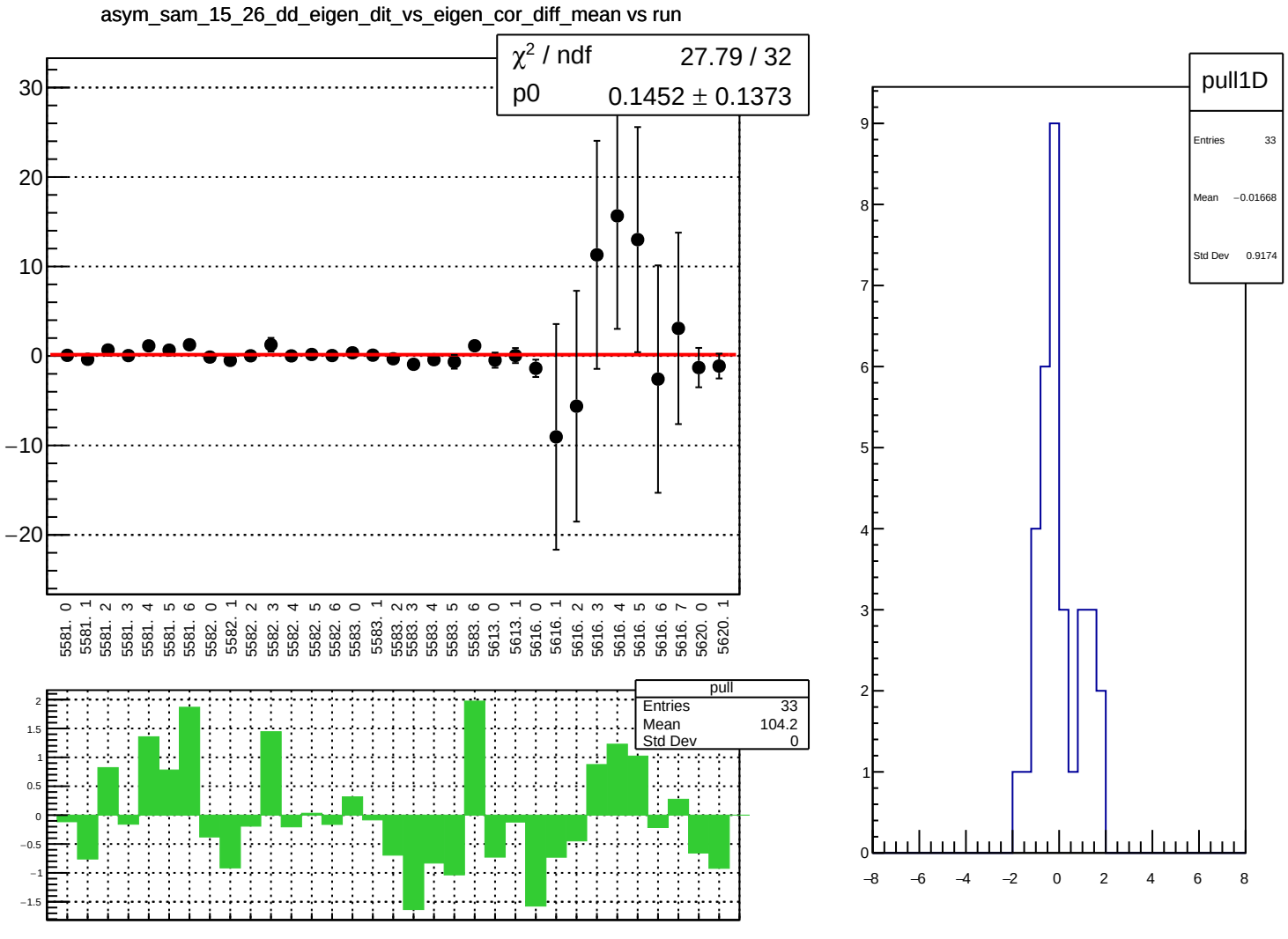

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 34.4 / 32
p0 −2.126e−06 ± 6.225e−06
0.15
0.1
0.05
0
−0.05
−0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 58.72
Std Dev 0
3
2
1
0
−1
−2

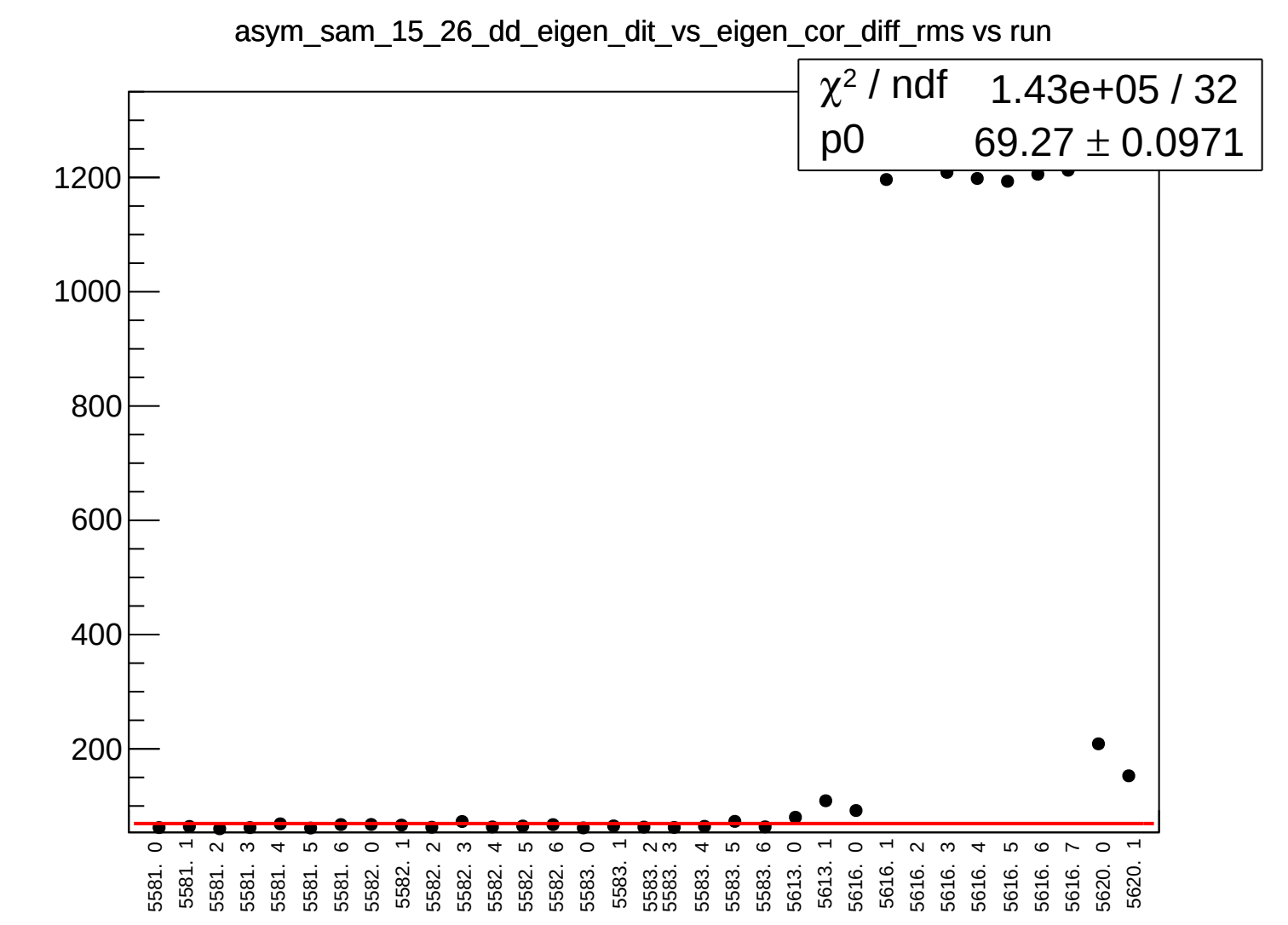

pull1D
Entries 33
Mean 0.06479
Std Dev 1.019
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

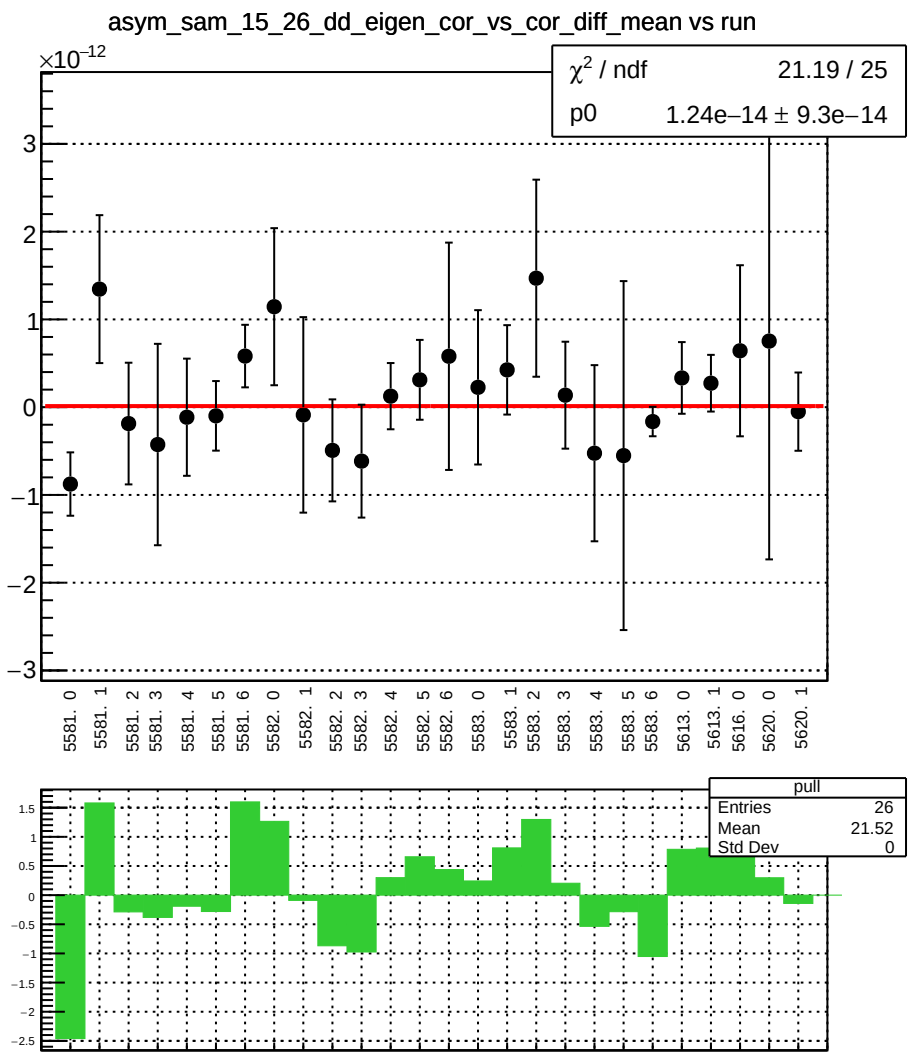

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.804e+04 / 32
p0 0.003477 ± 4.402e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

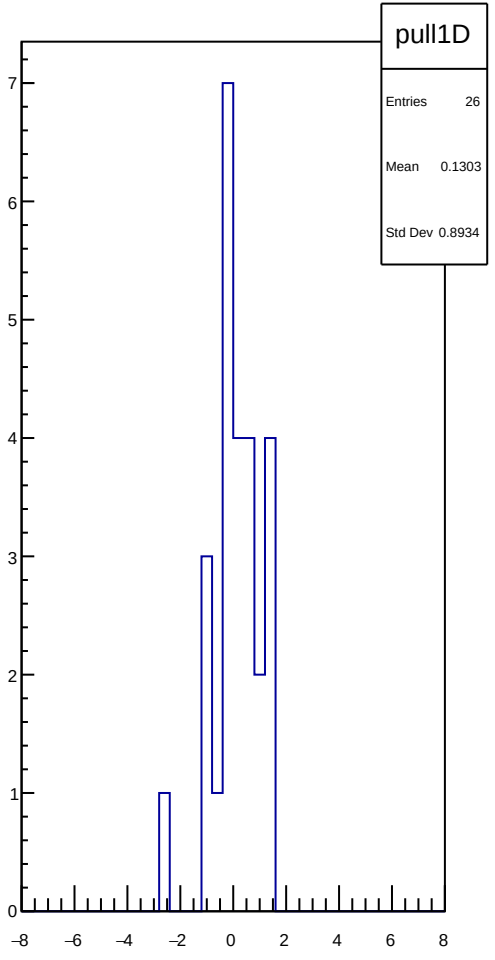

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 27.79 / 32
p0 0.1452 ± 0.1373
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 104.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.01668
Std Dev 0.9174
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

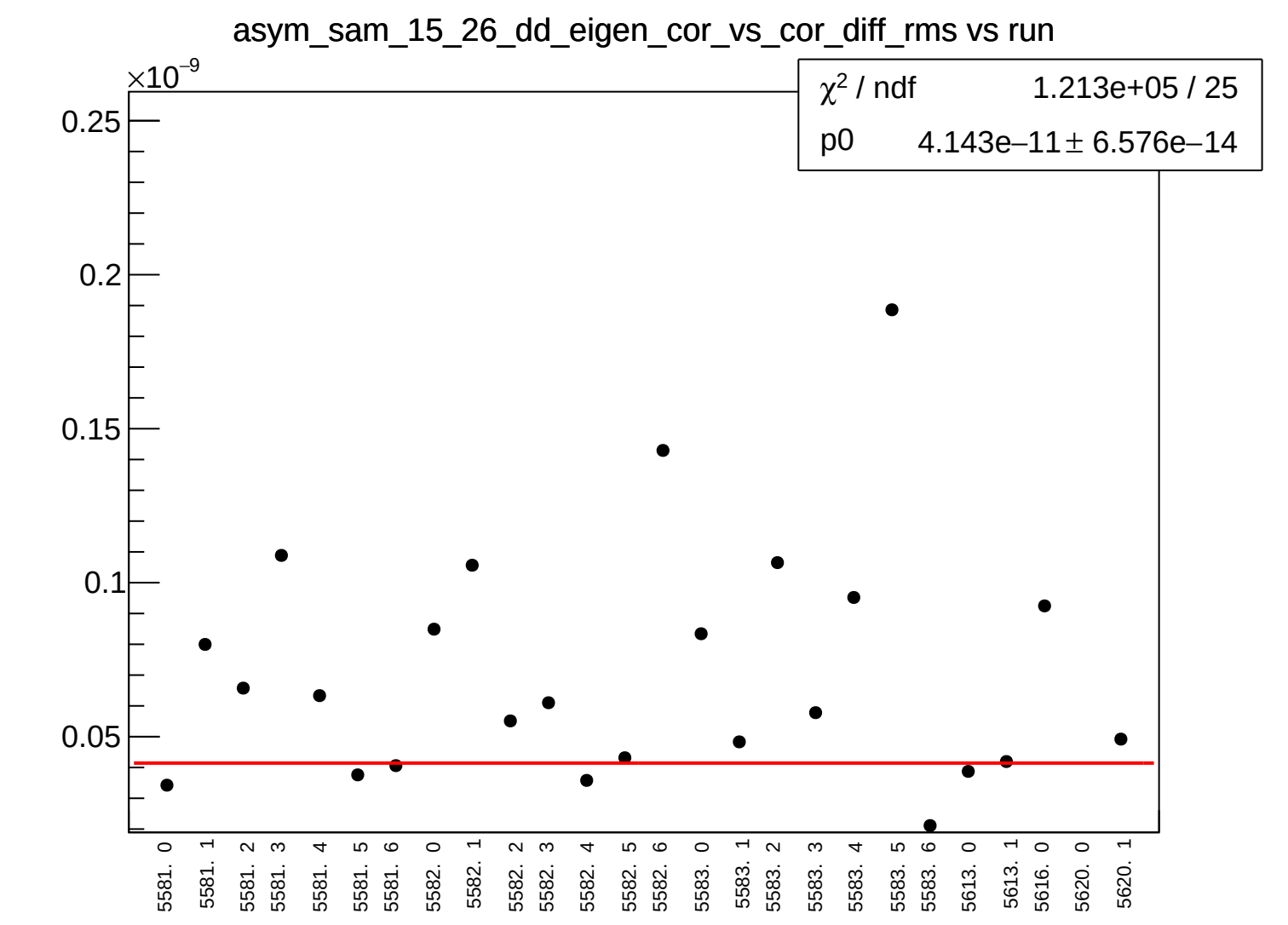

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.43e+05 / 32
p0 69.27 ± 0.0971
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

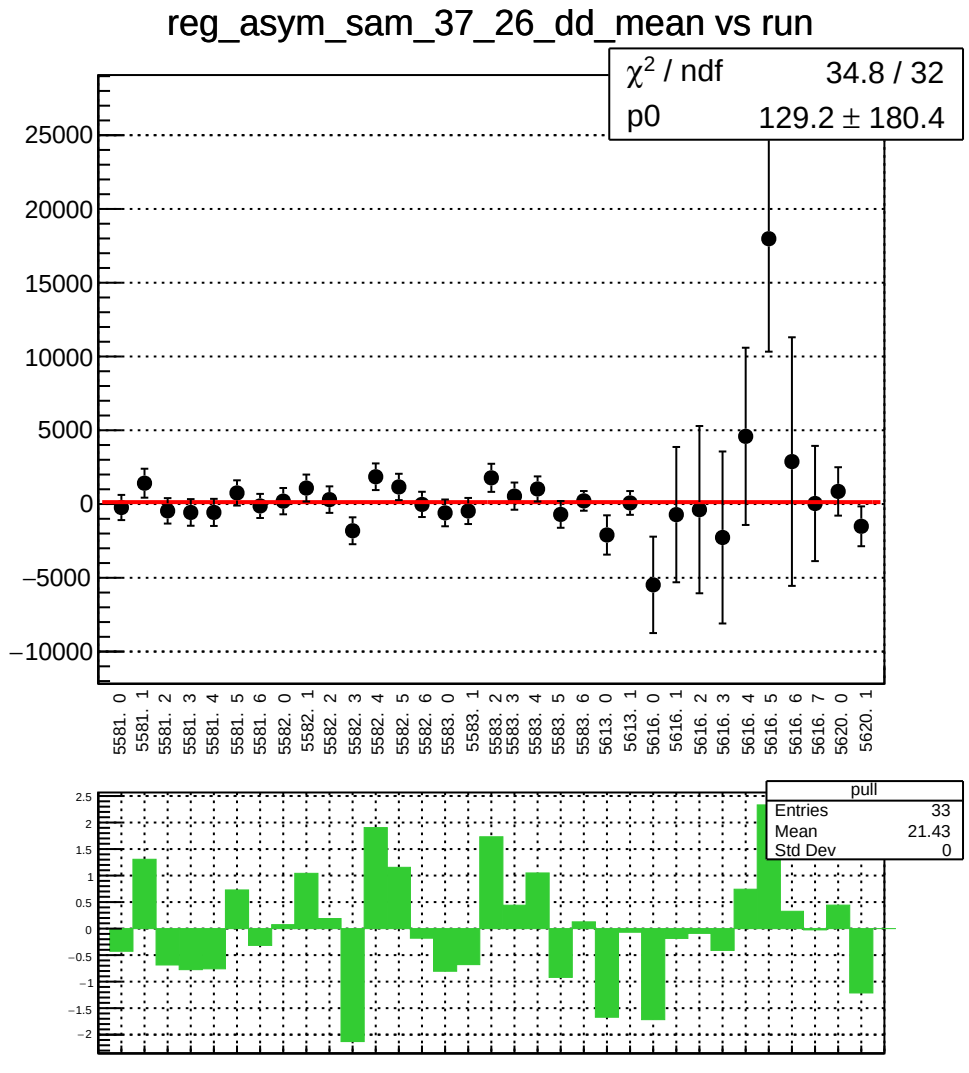

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 27.79 / 32
p0 0.1452 ± 0.1373
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 104.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.01668
Std Dev 0.9174
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

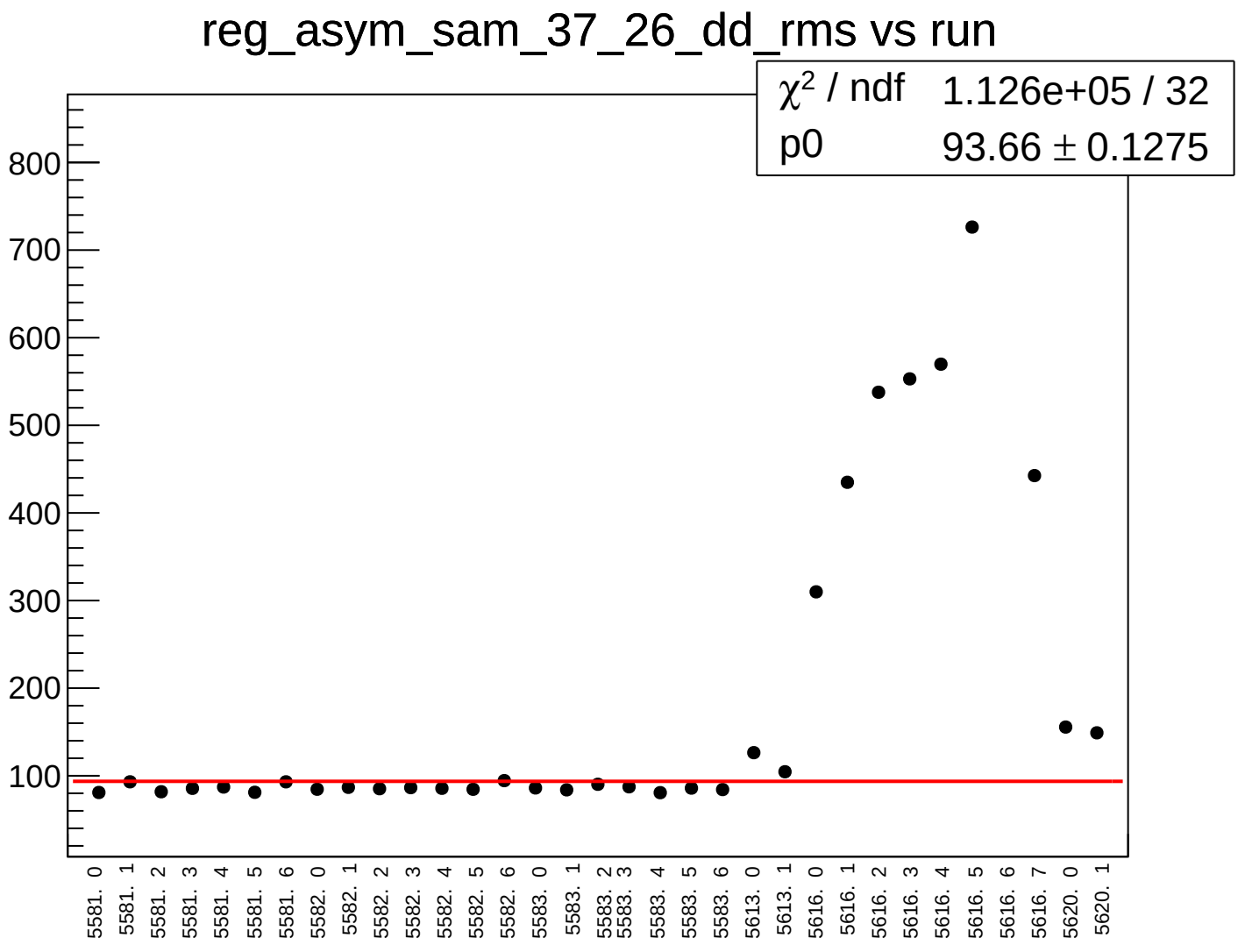

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.43e+05 / 32
p0 69.27 ± 0.0971
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

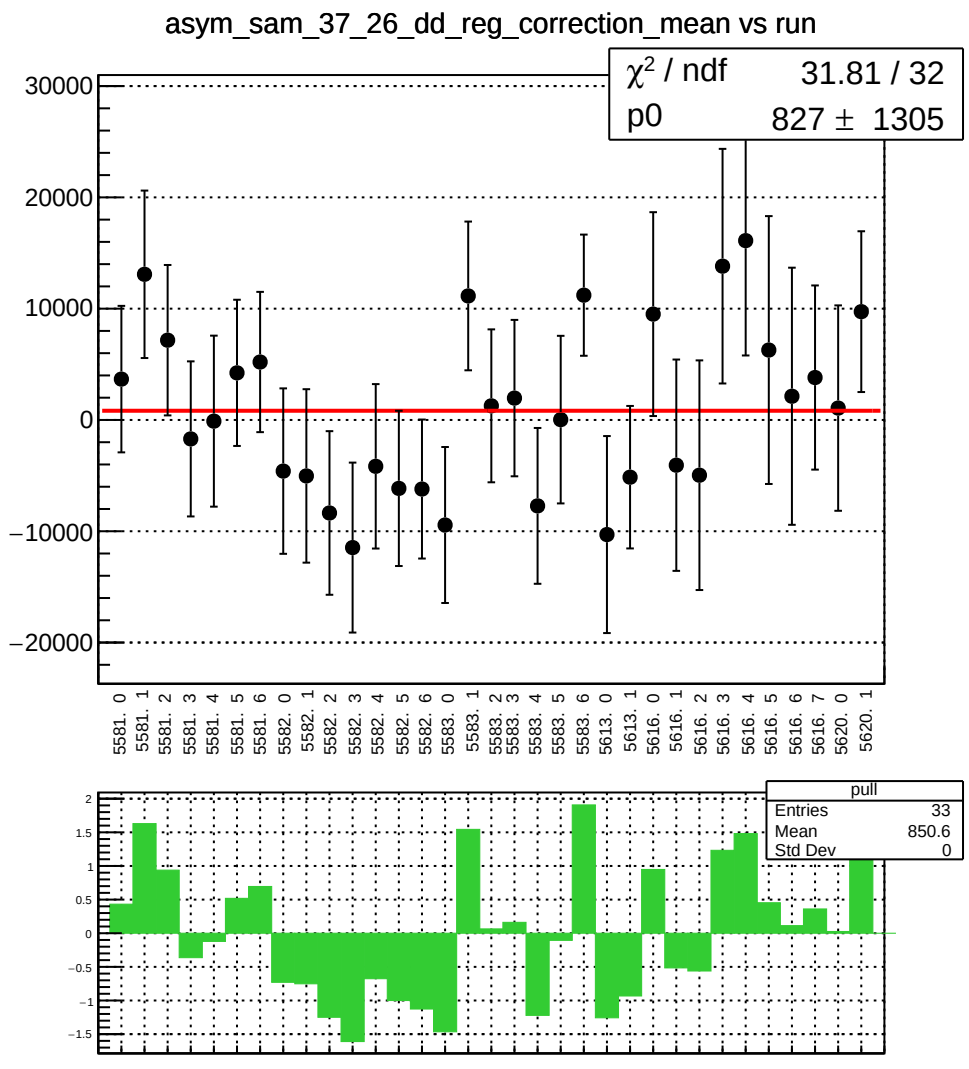

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 21.19 / 25
p0 1.24e−14 ± 9.3e−14
3
2
1
0
−1
−2
−3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 21.52
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

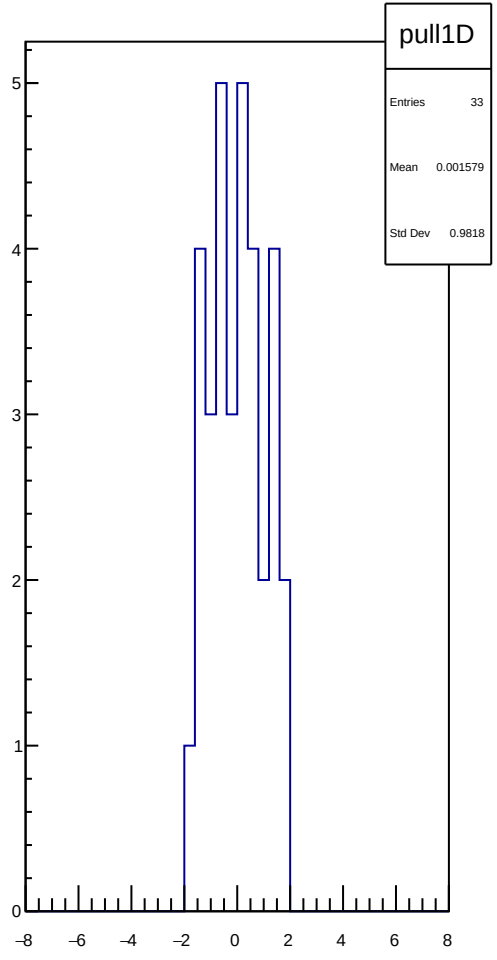

pull1D
Entries 26
Mean 0.1303
Std Dev 0.8934
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

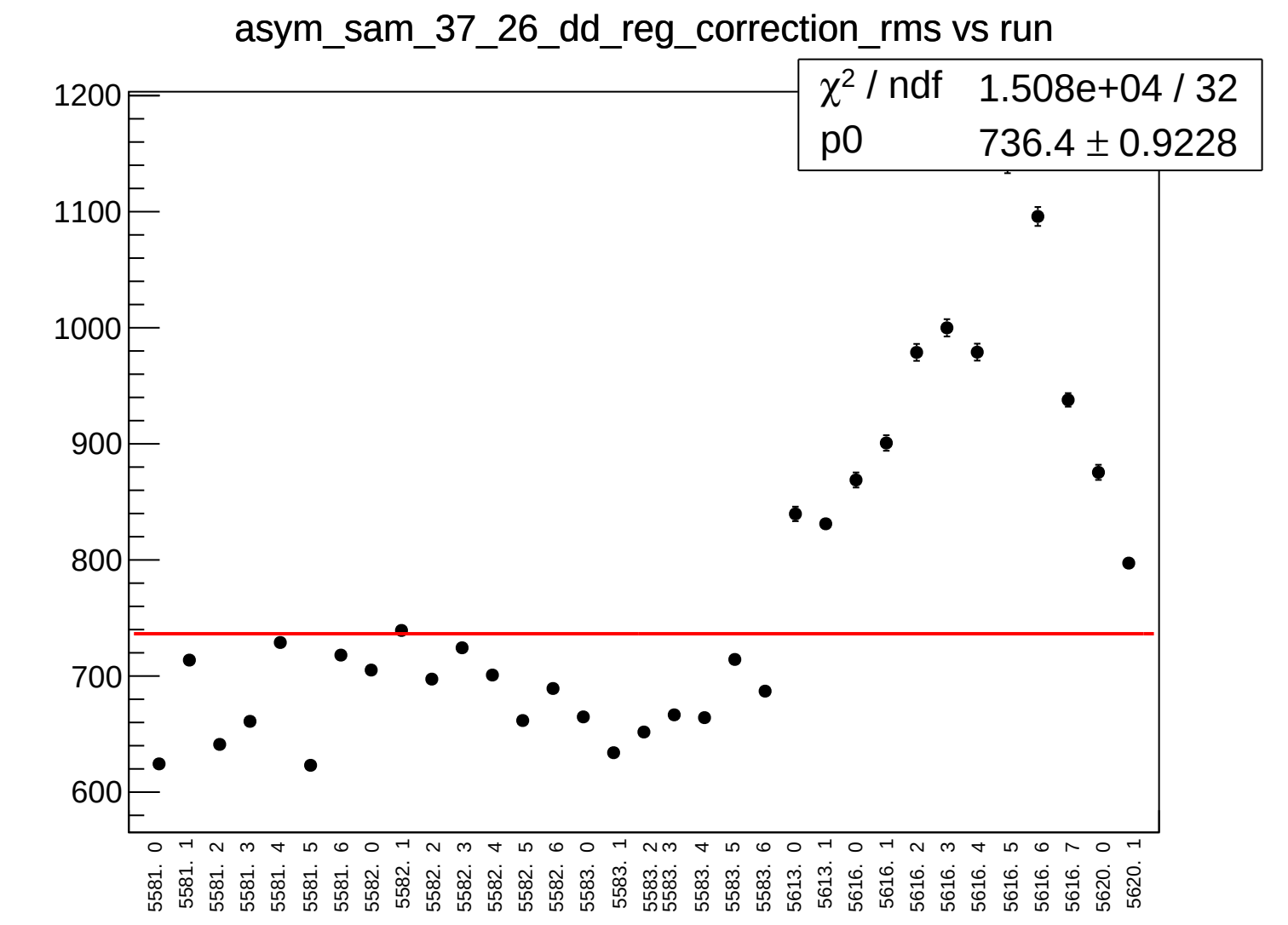

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.213e+05 / 25
p0 4.143e−11 ± 6.576e−14
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

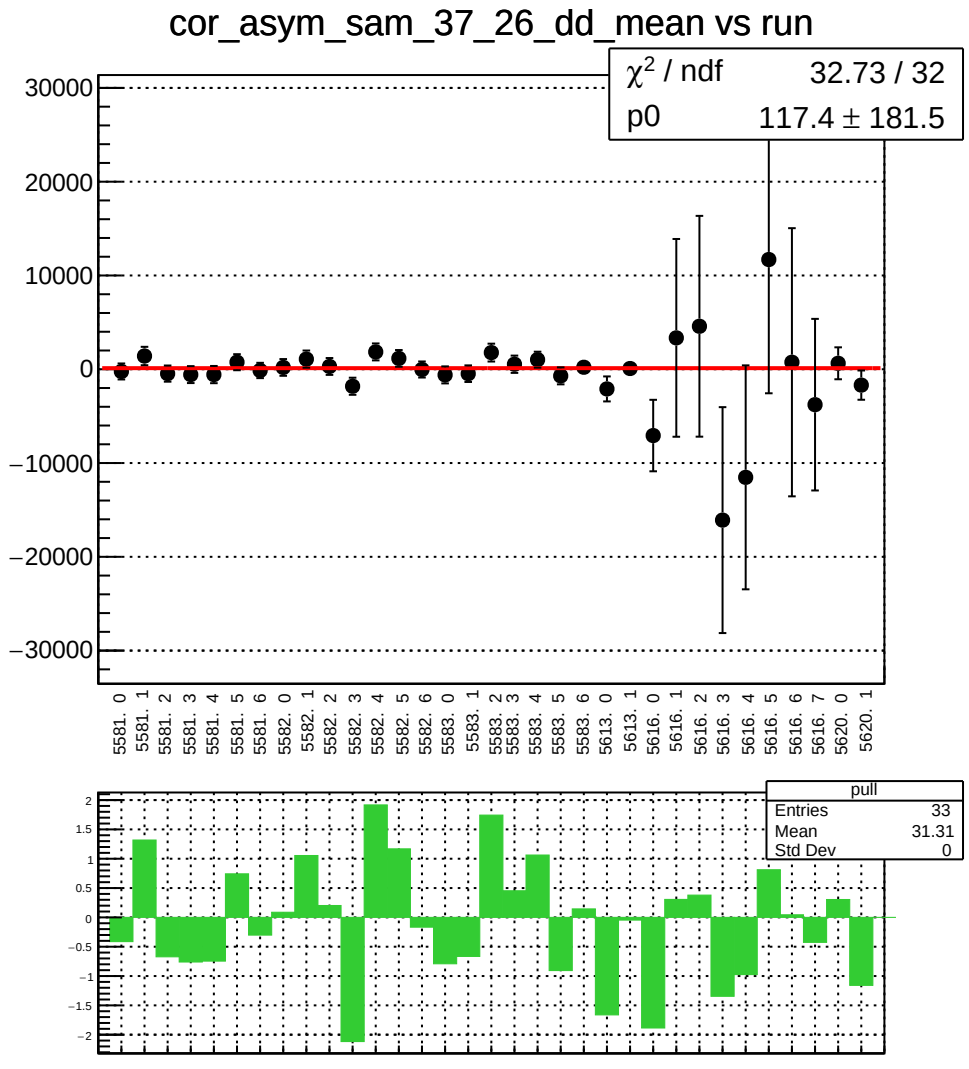

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 34.8 / 32
p0 129.2 ± 180.4
25000
20000
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.43
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.01636
Std Dev 1.027
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

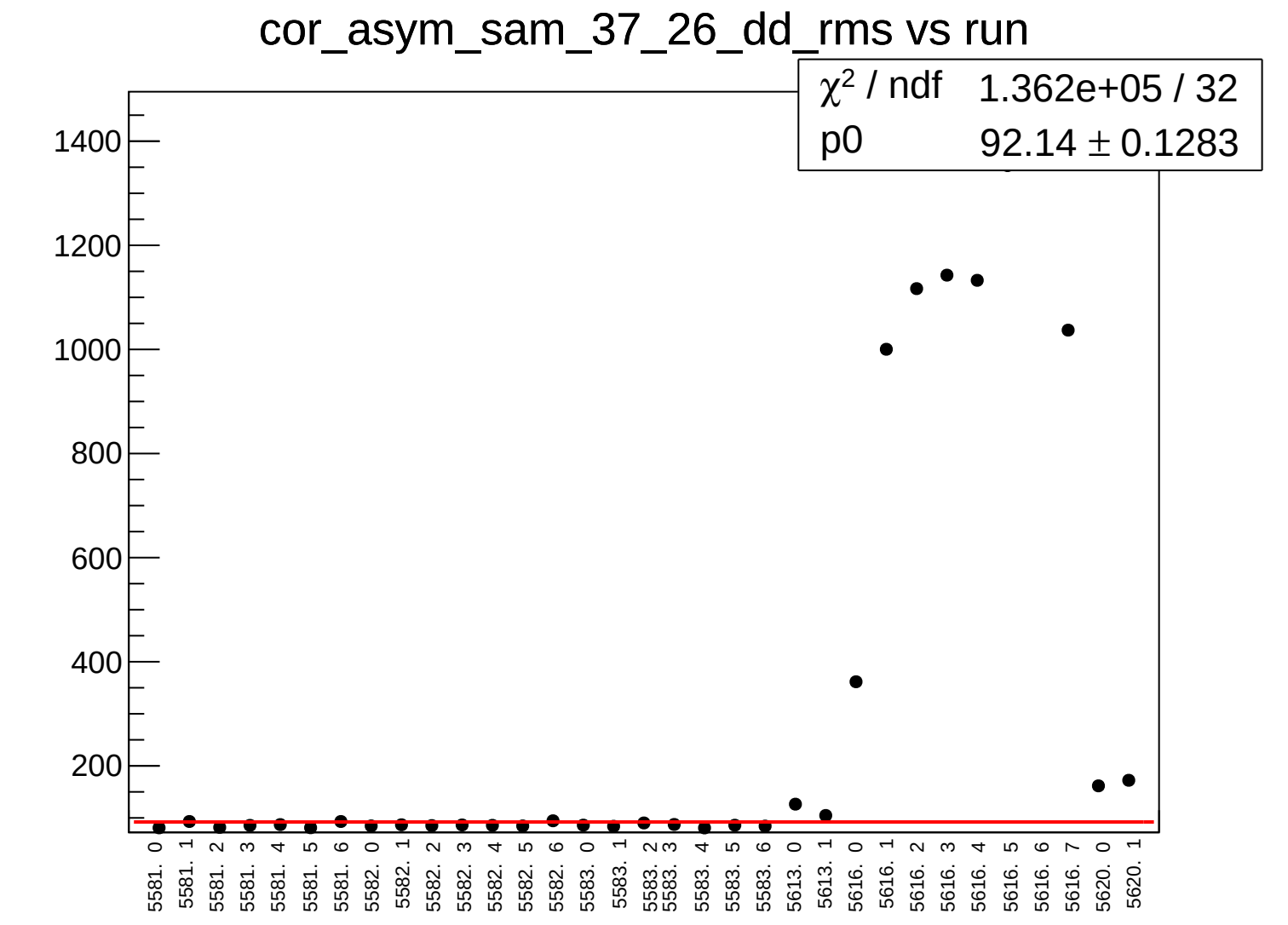

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.126e+05 / 32
p0 93.66 ± 0.1275
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

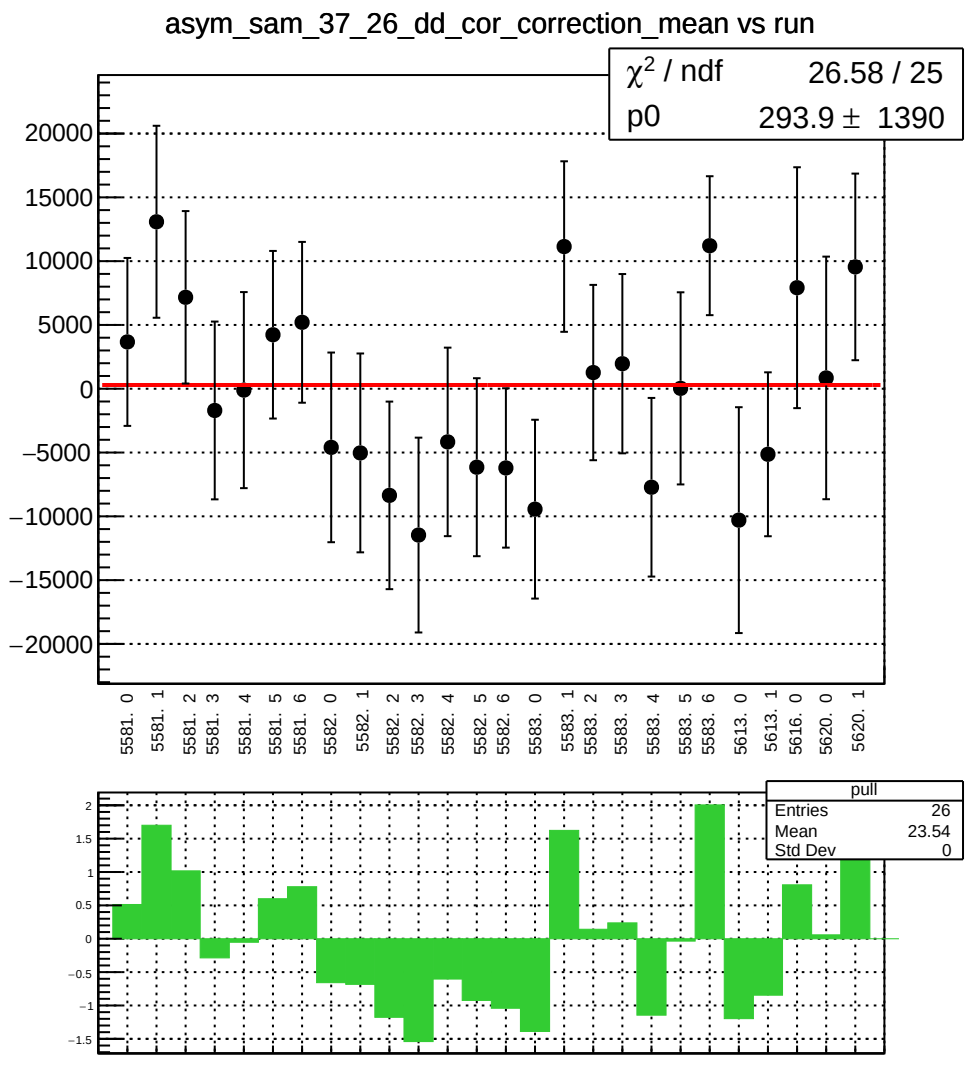

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 31.81 / 32
p0 827 ± 1305
30000
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 850.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

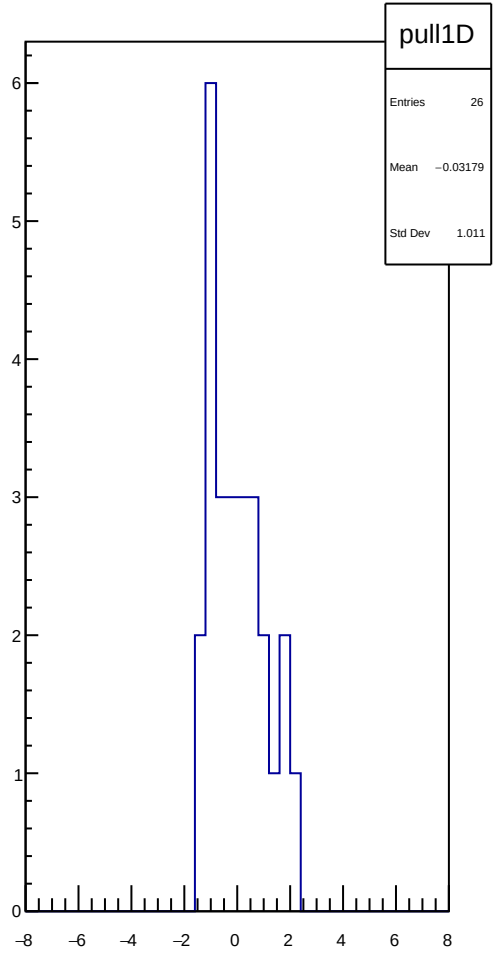

pull1D
Entries 33
Mean 0.001579
Std Dev 0.9818
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

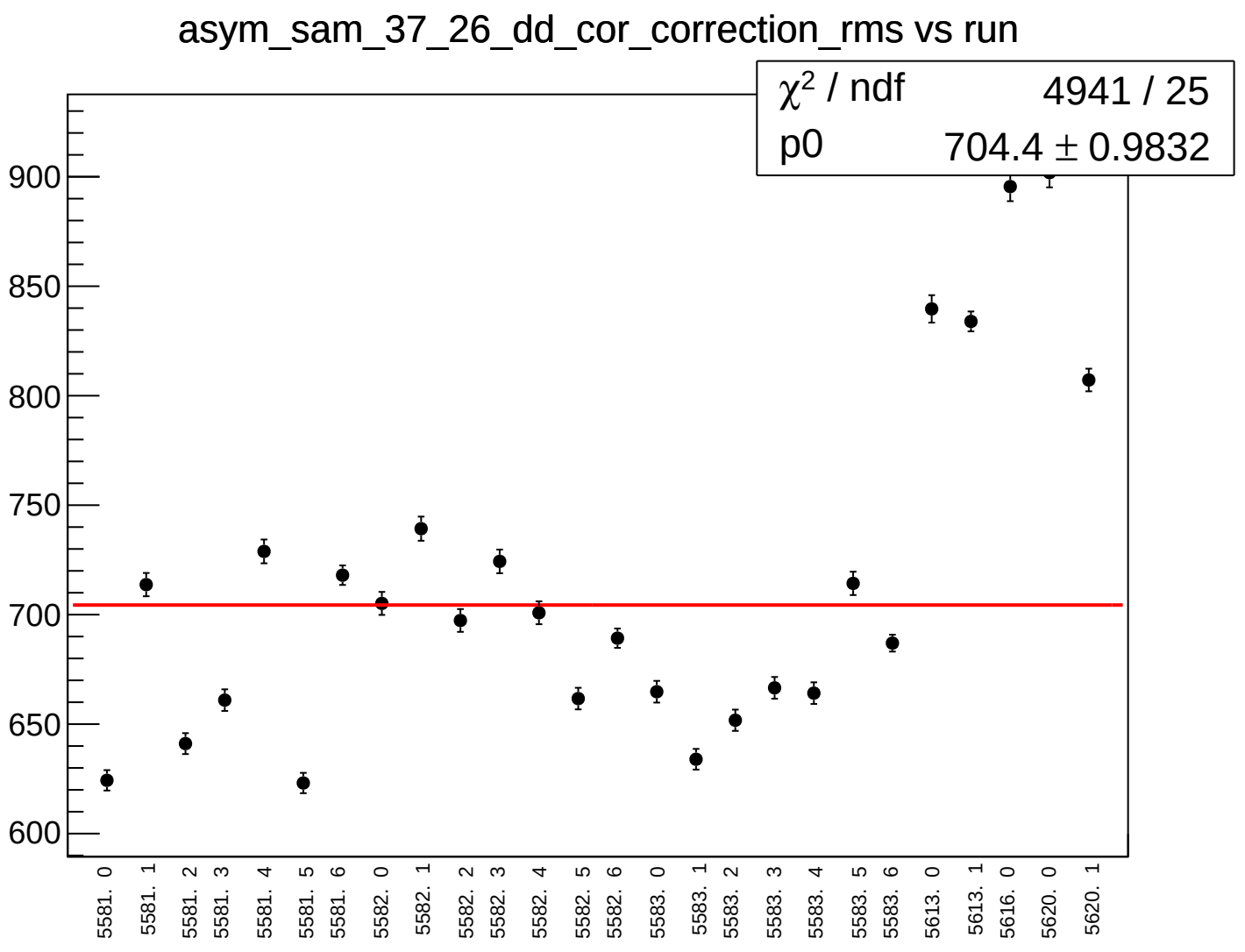

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 1.508e+04 / 32
p0 736.4 ± 0.9228
1200
1100
1000
900
800
700
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

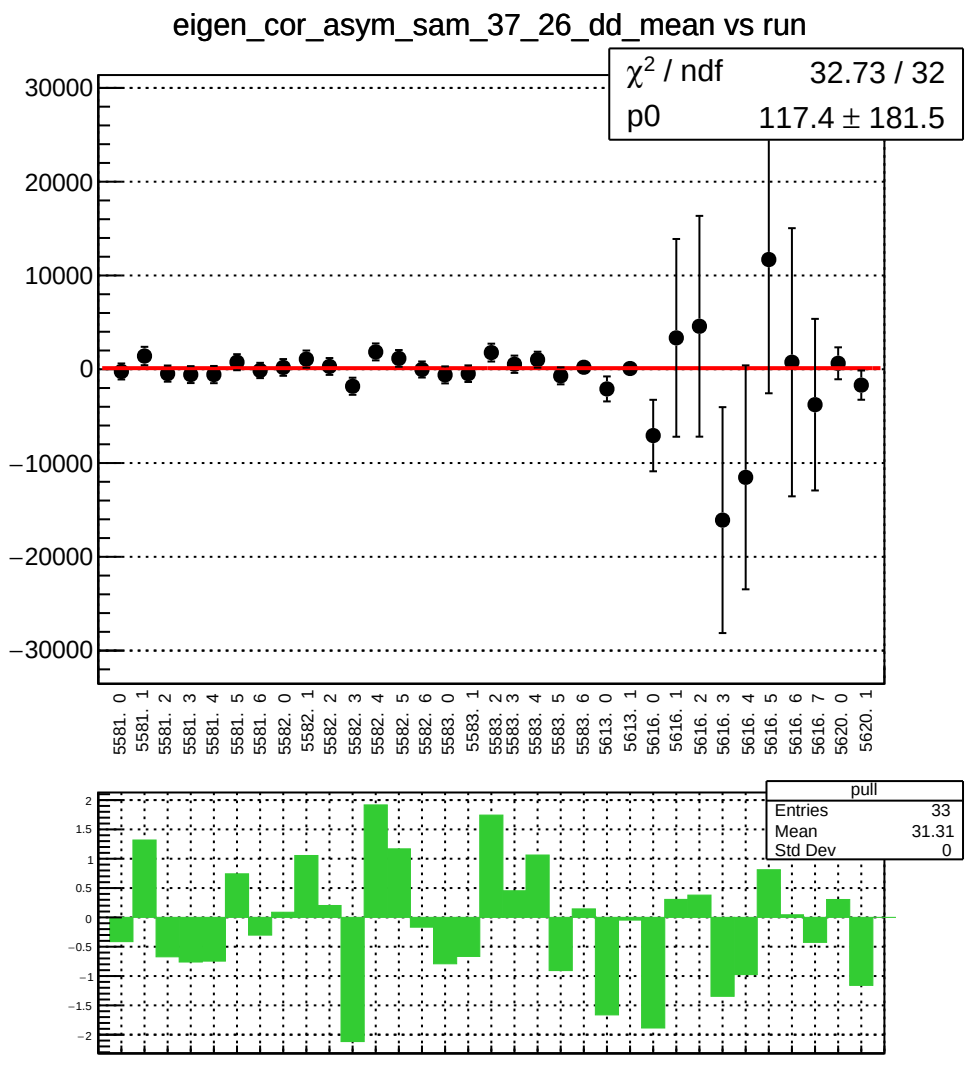

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 32.73 / 32
p0 117.4 ± 181.5
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.09985
Std Dev 0.9909
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

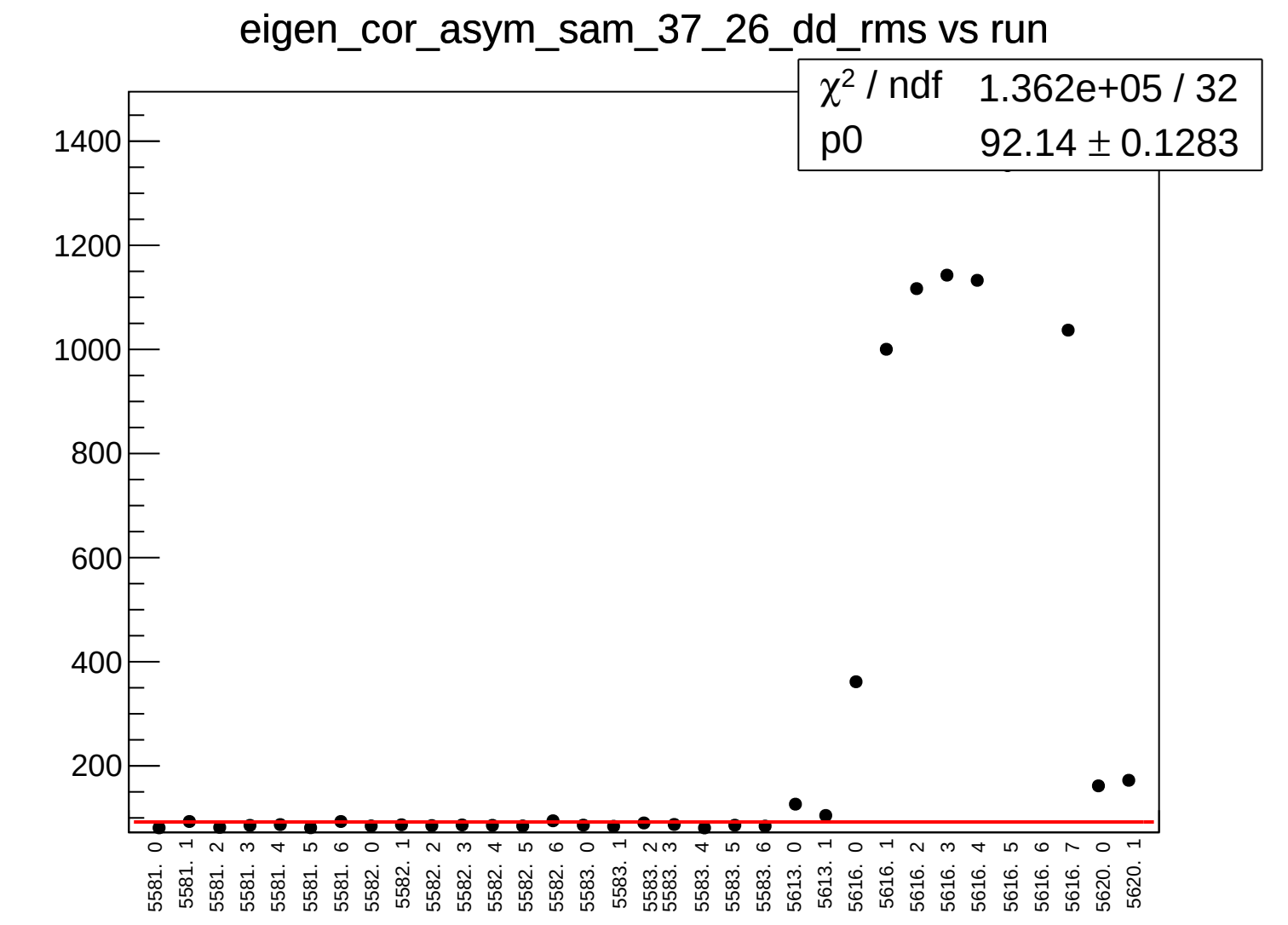

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.362e+05 / 32
p0 92.14 ± 0.1283
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

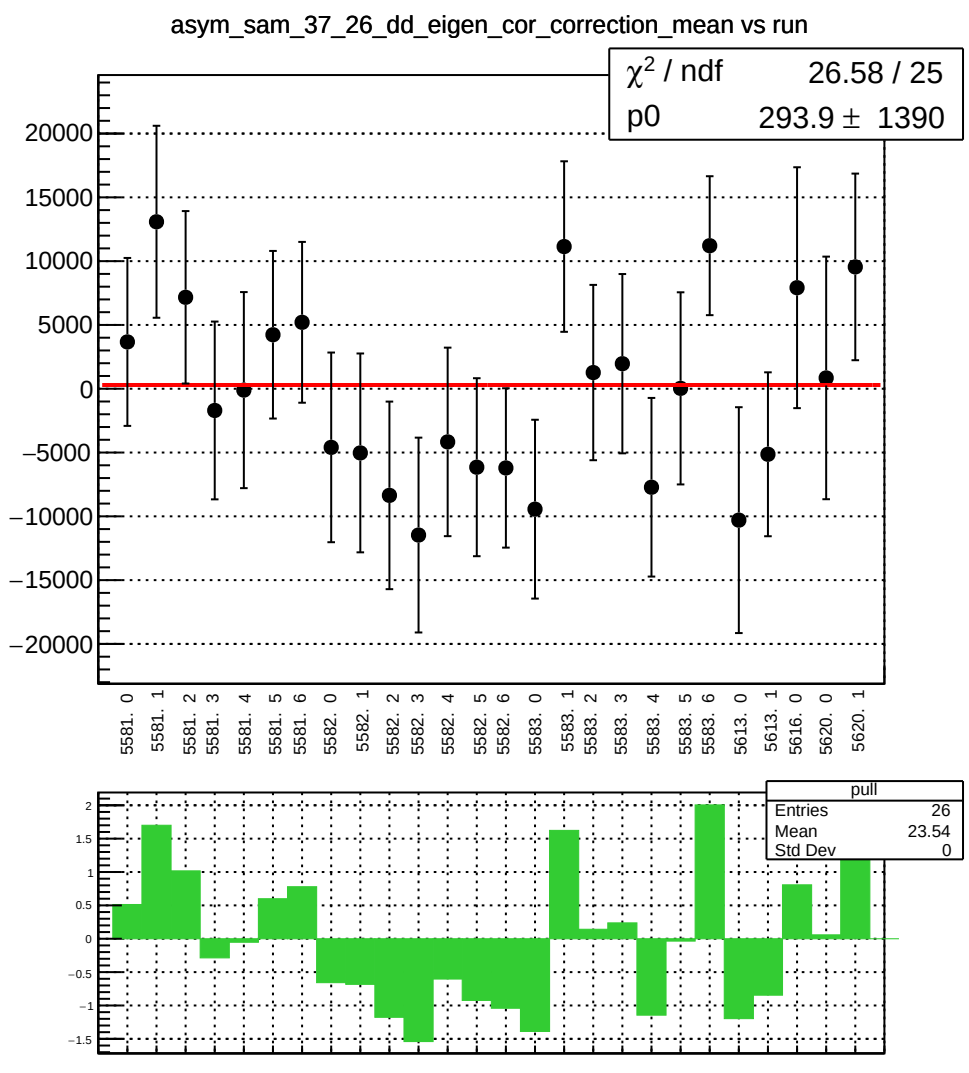

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 26.58 / 25
p0 293.9 ± 1390
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 23.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

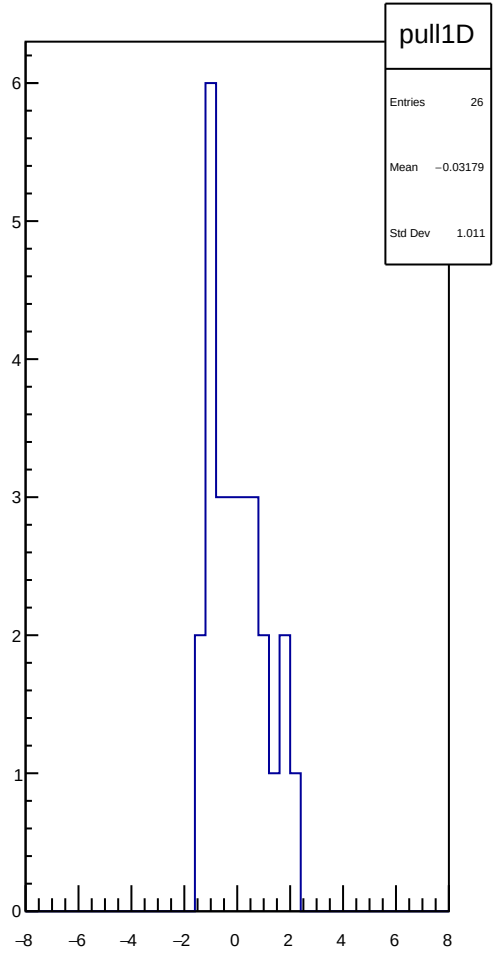

pull1D
Entries 26
Mean −0.03179
Std Dev 1.011
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

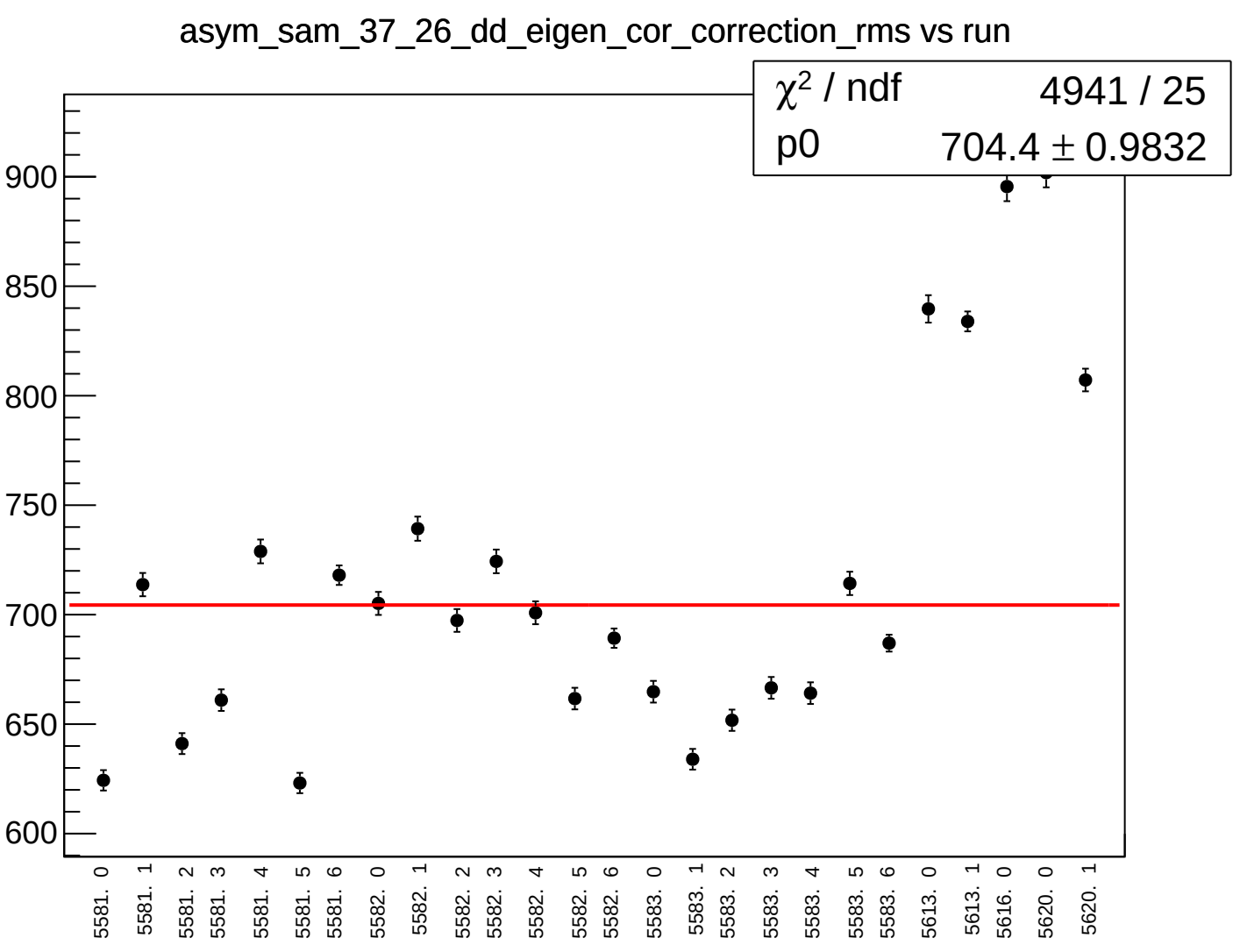

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 4941 / 25
p0 704.4 ± 0.9832
900
850
800
750
700
650
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

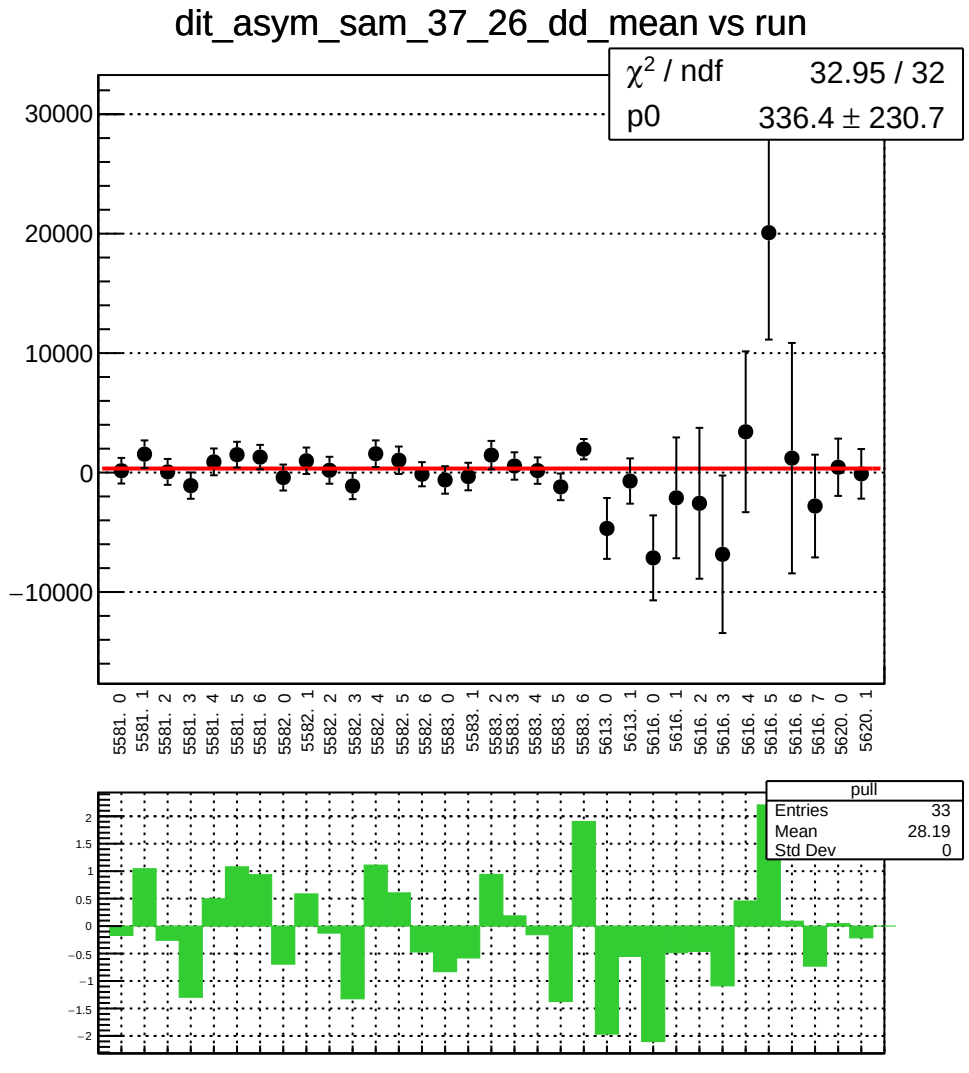

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 32.73 / 32
p0 117.4 ± 181.5
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.09985
Std Dev 0.9909
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

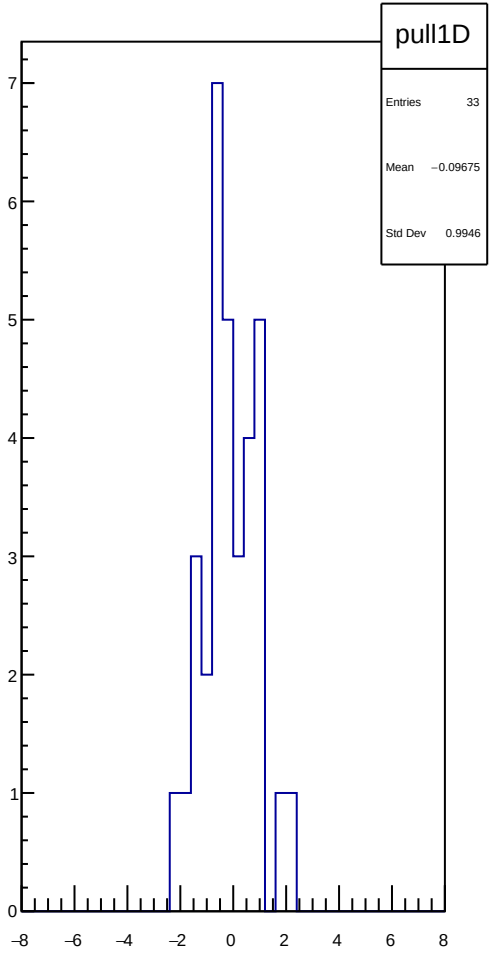

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.362e+05 / 32
p0 92.14 ± 0.1283
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

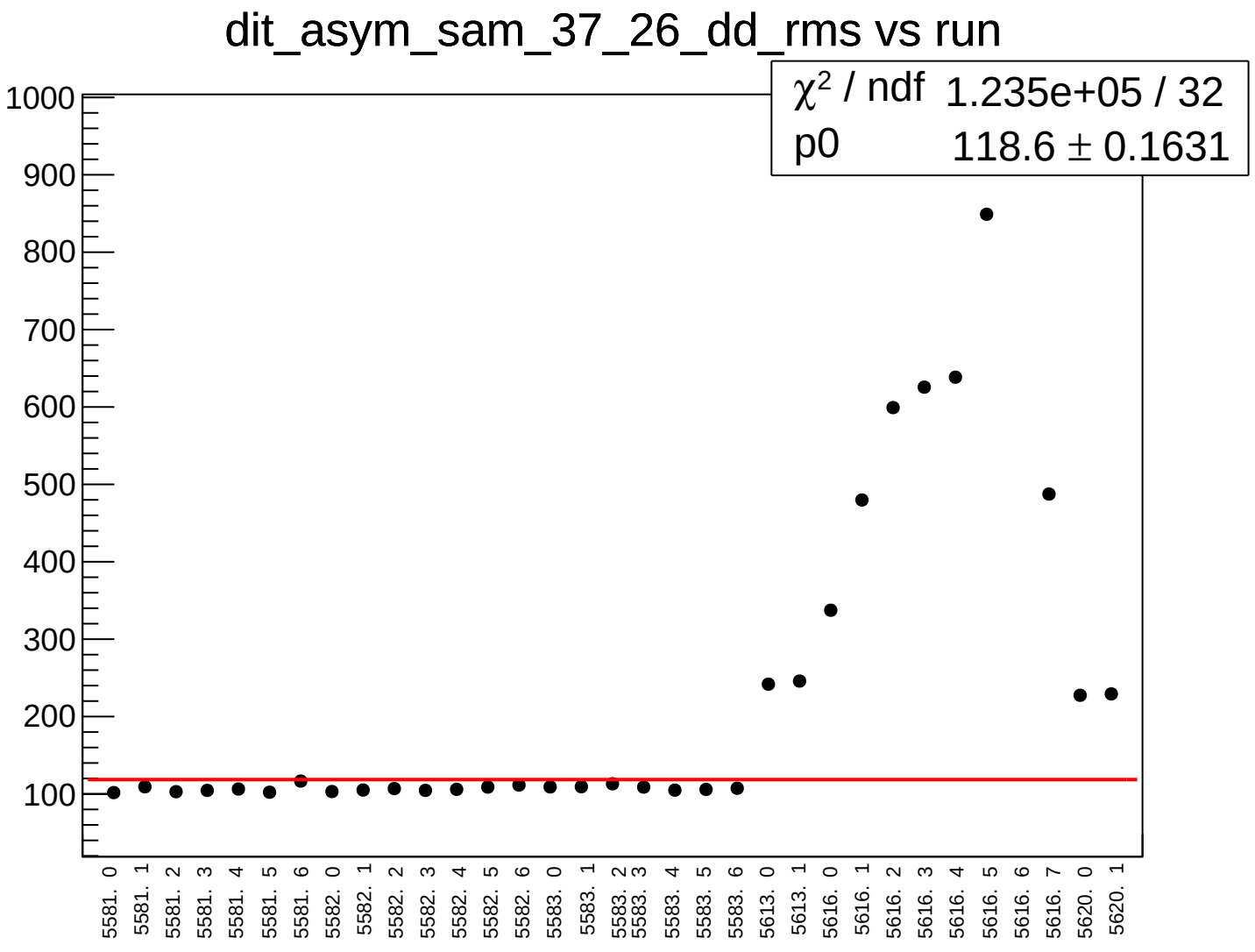

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 26.58 / 25
p0 293.9 ± 1390
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 23.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

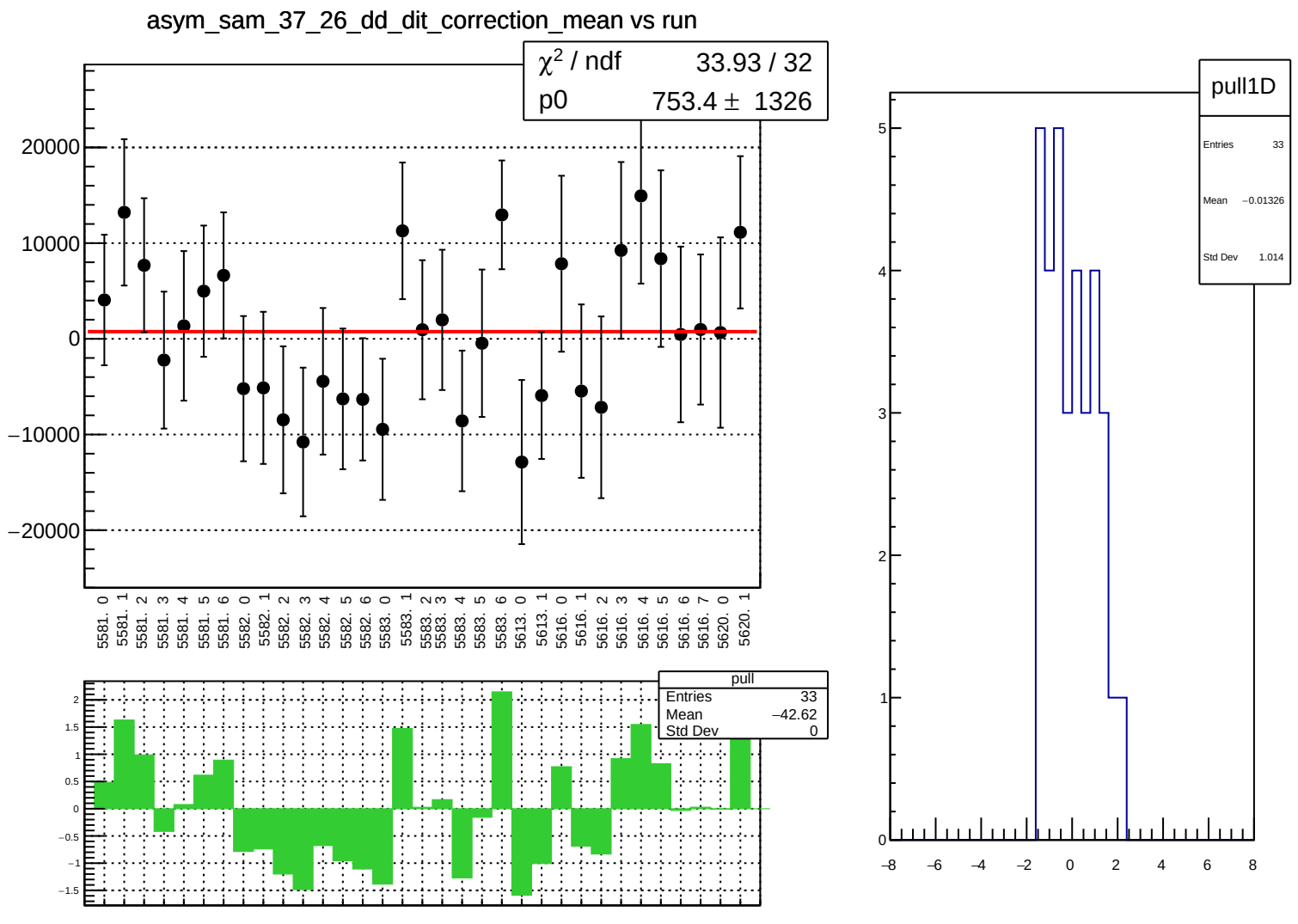

pull1D
Entries 26
Mean −0.03179
Std Dev 1.011
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

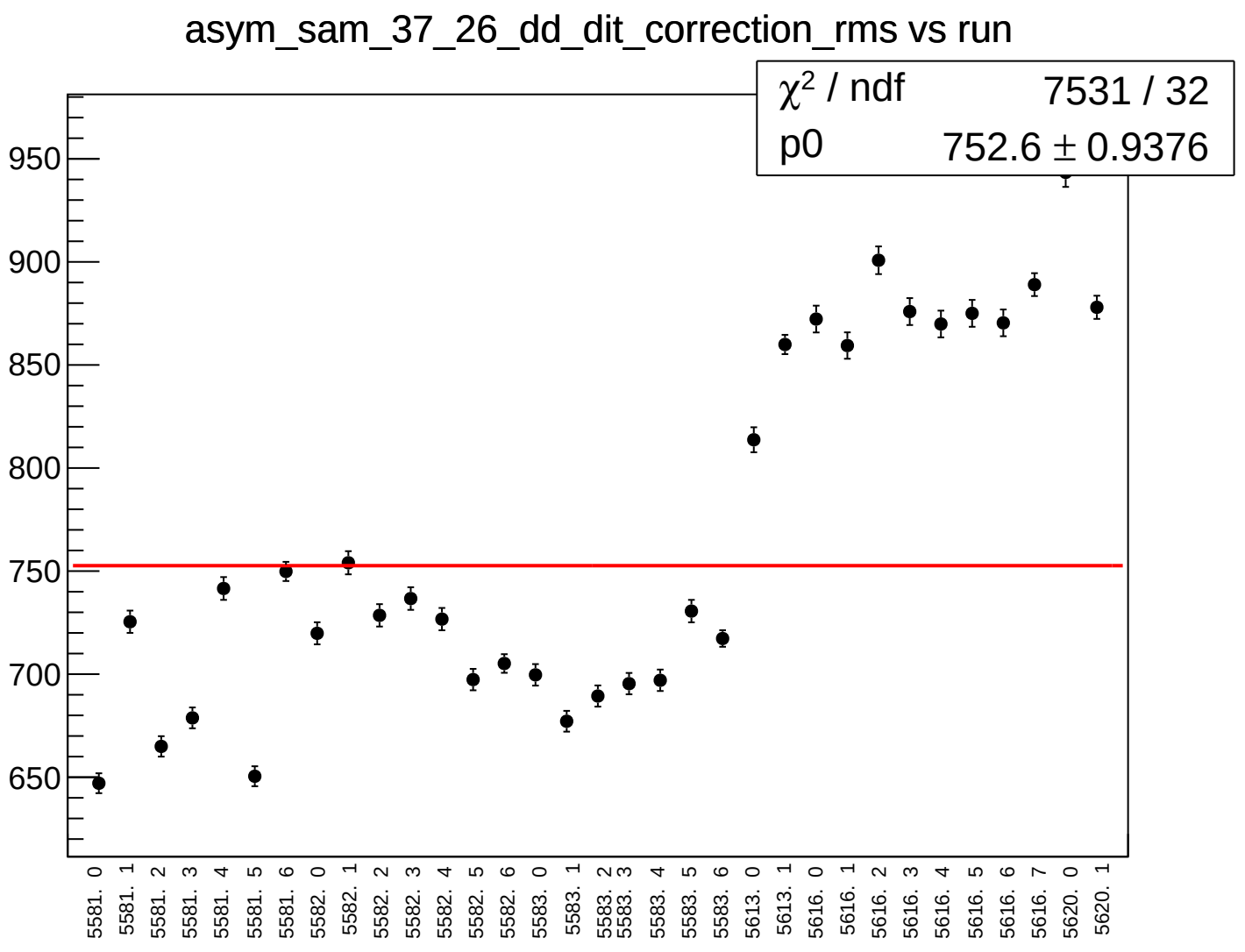

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4941 / 25
p0 704.4 ± 0.9832
900
850
800
750
700
650
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

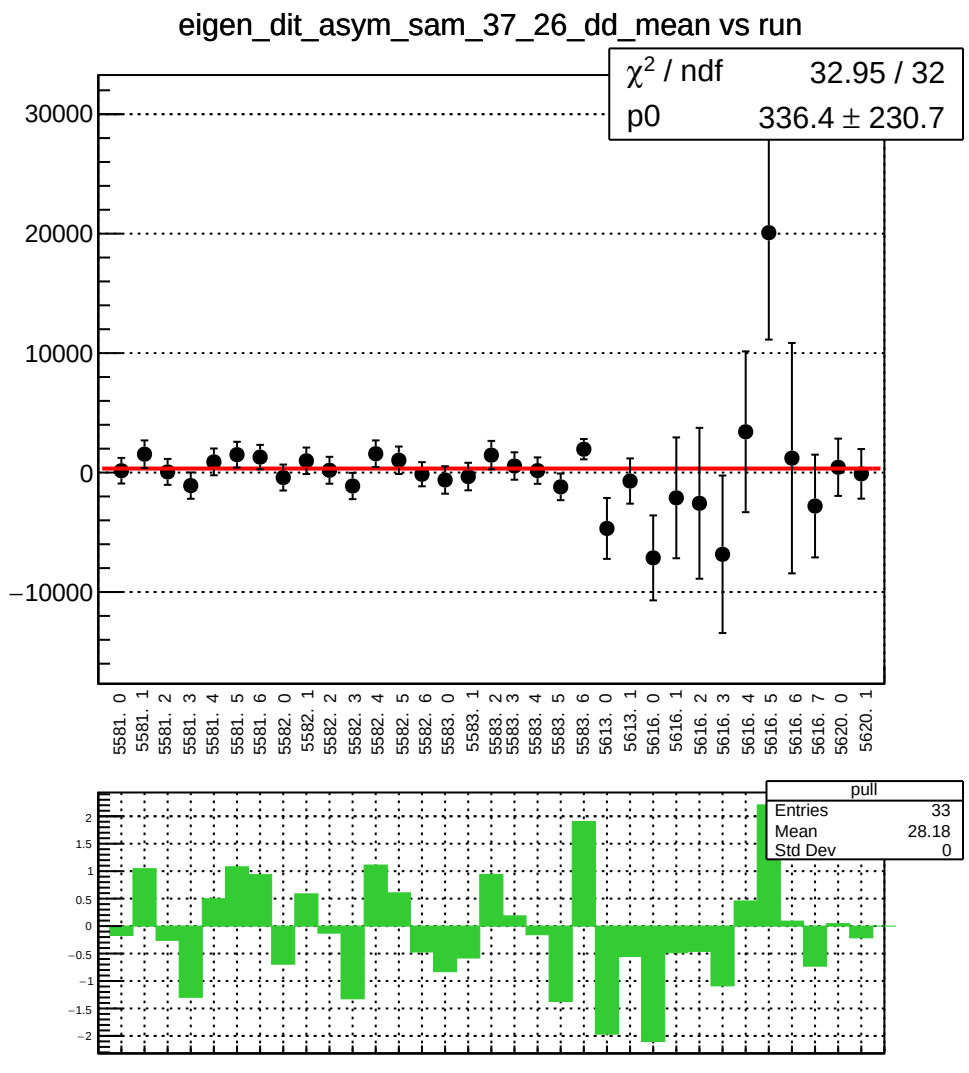

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 32.95 / 32
p0 336.4 ± 230.7
30000
20000
10000
0
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

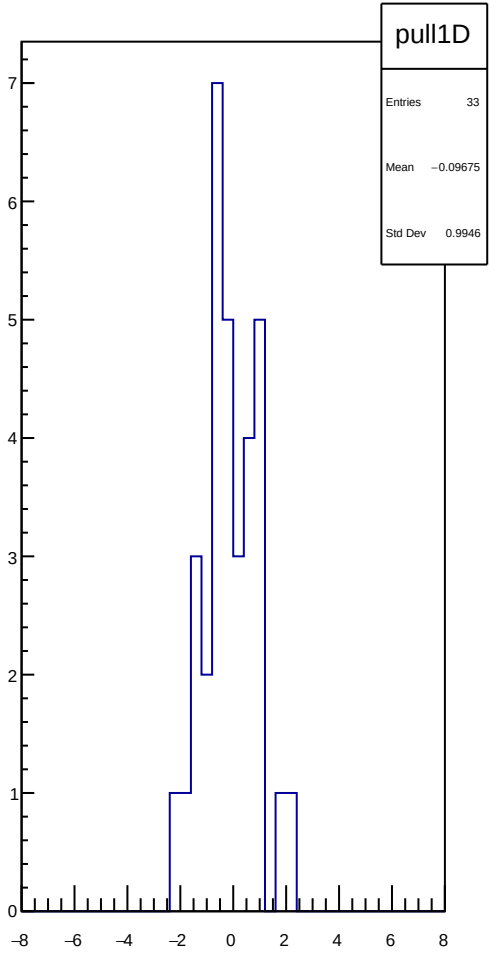

pull1D
Entries 33
Mean −0.09675
Std Dev 0.9946
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

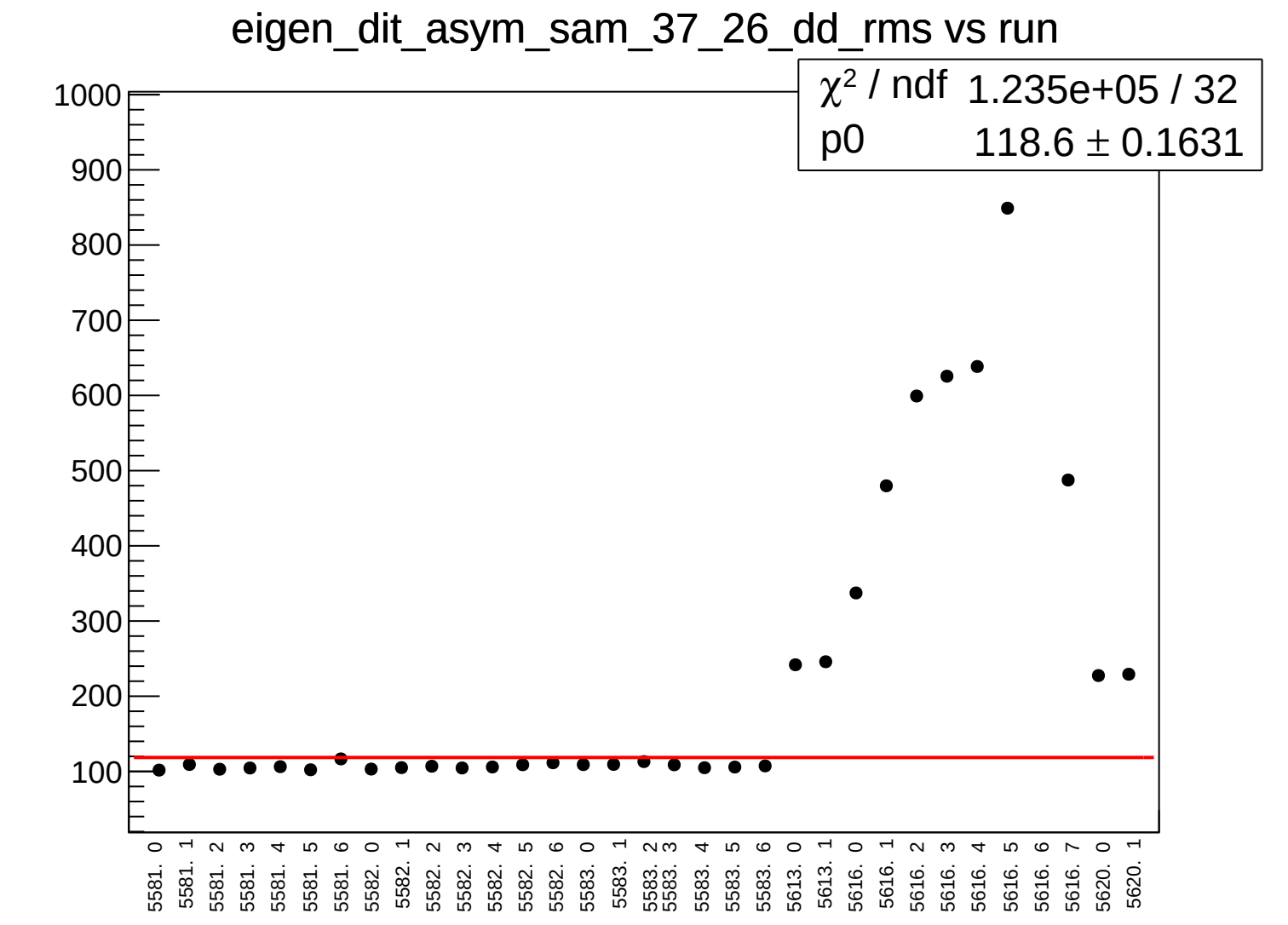

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.235e+05 / 32
p0 118.6 ± 0.1631
1000
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

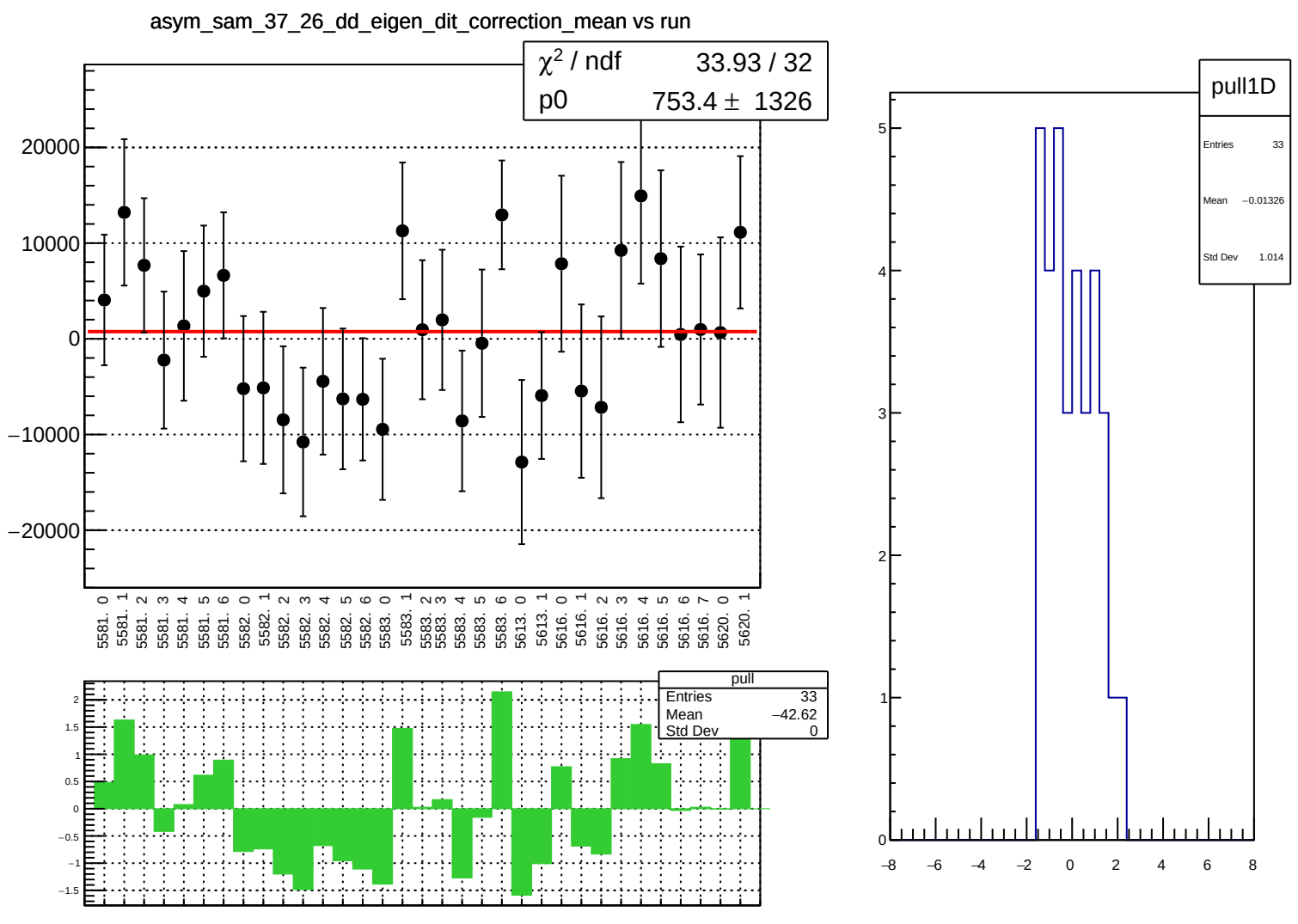

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 33.93 / 32
p0 753.4 ± 1326
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −42.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.01326
Std Dev 1.014
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

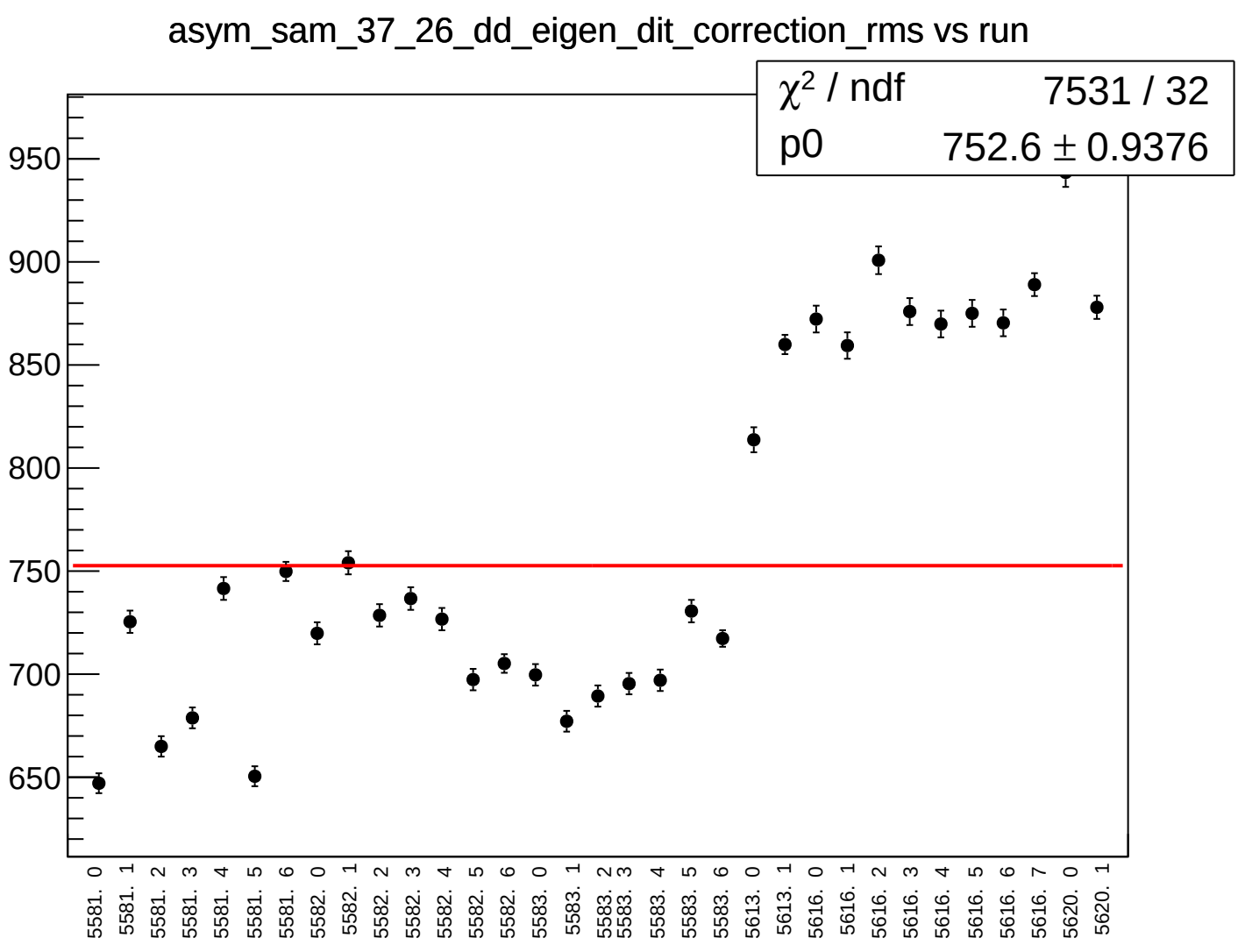

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 7531 / 32
p0 752.6 ± 0.9376
950
900
850
800
750
700
650
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

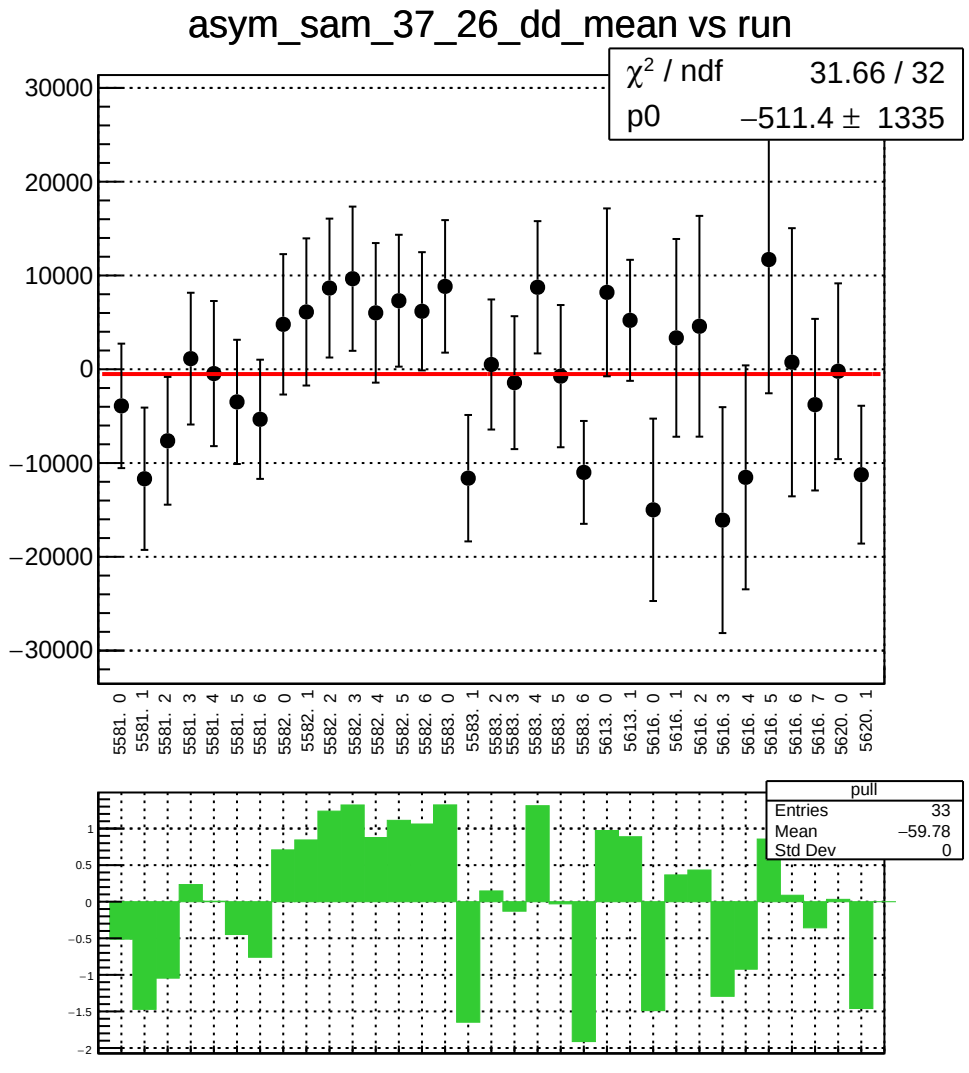

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 32.95 / 32
p0 336.4 ± 230.7
30000
20000
10000
0
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

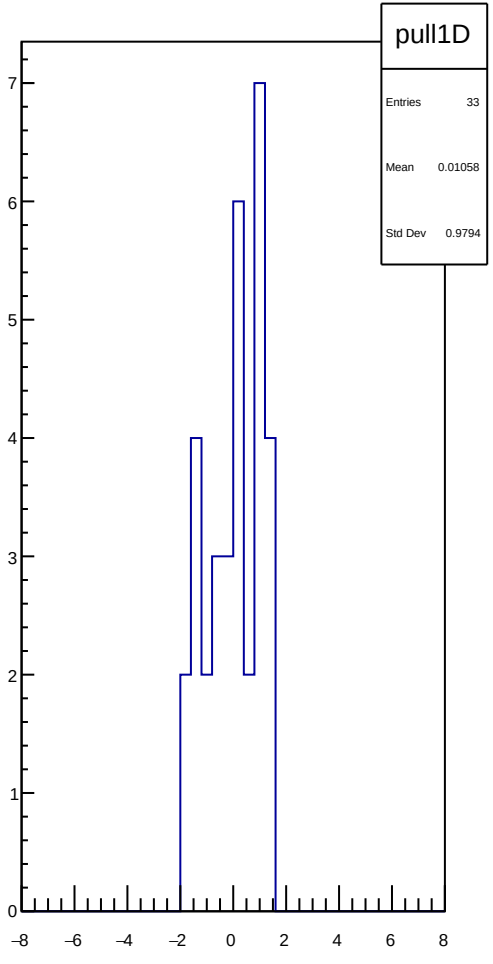

pull1D
Entries 33
Mean −0.09675
Std Dev 0.9946
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

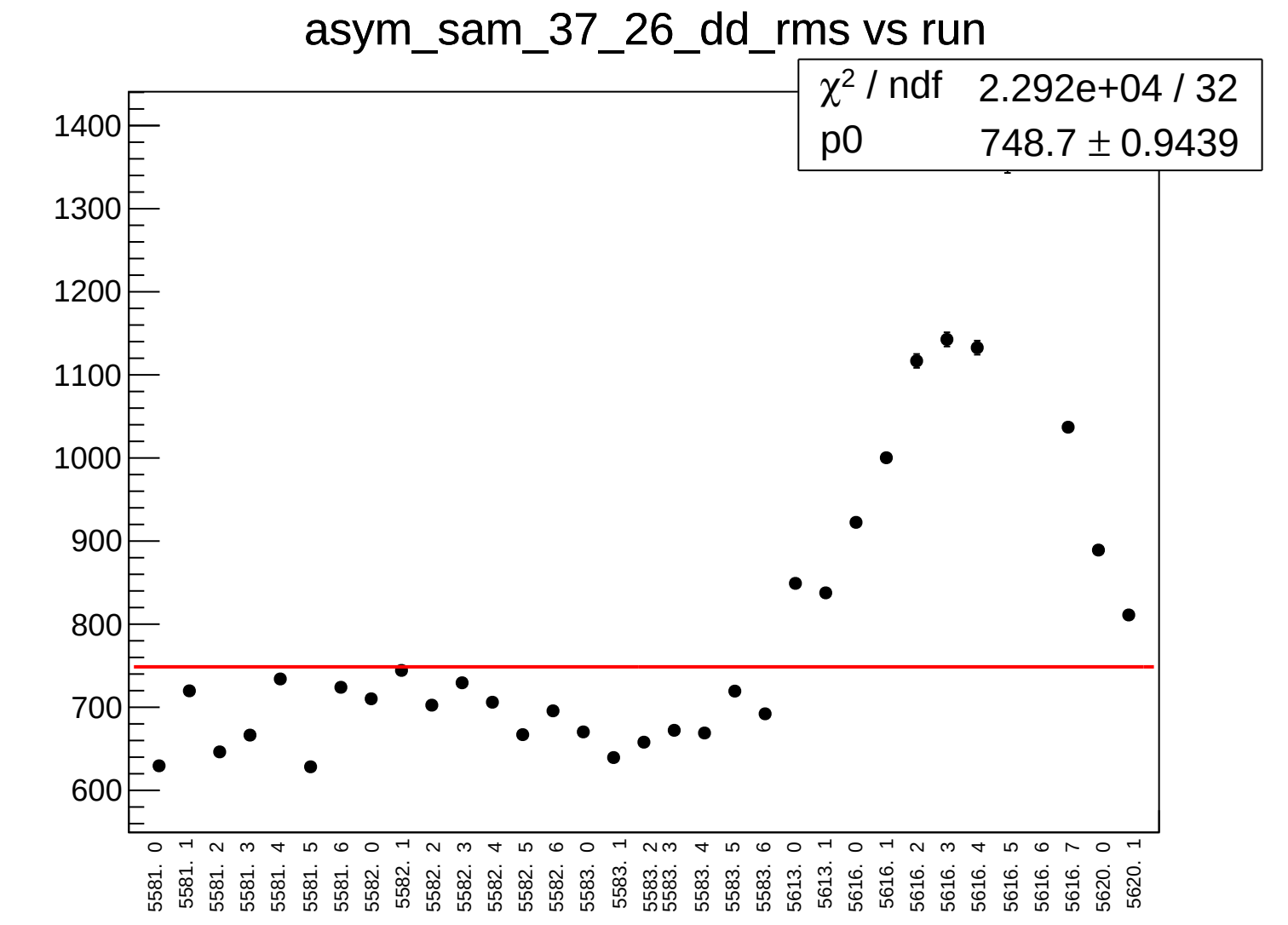

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.235e+05 / 32
p0 118.6 ± 0.1631
1000
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

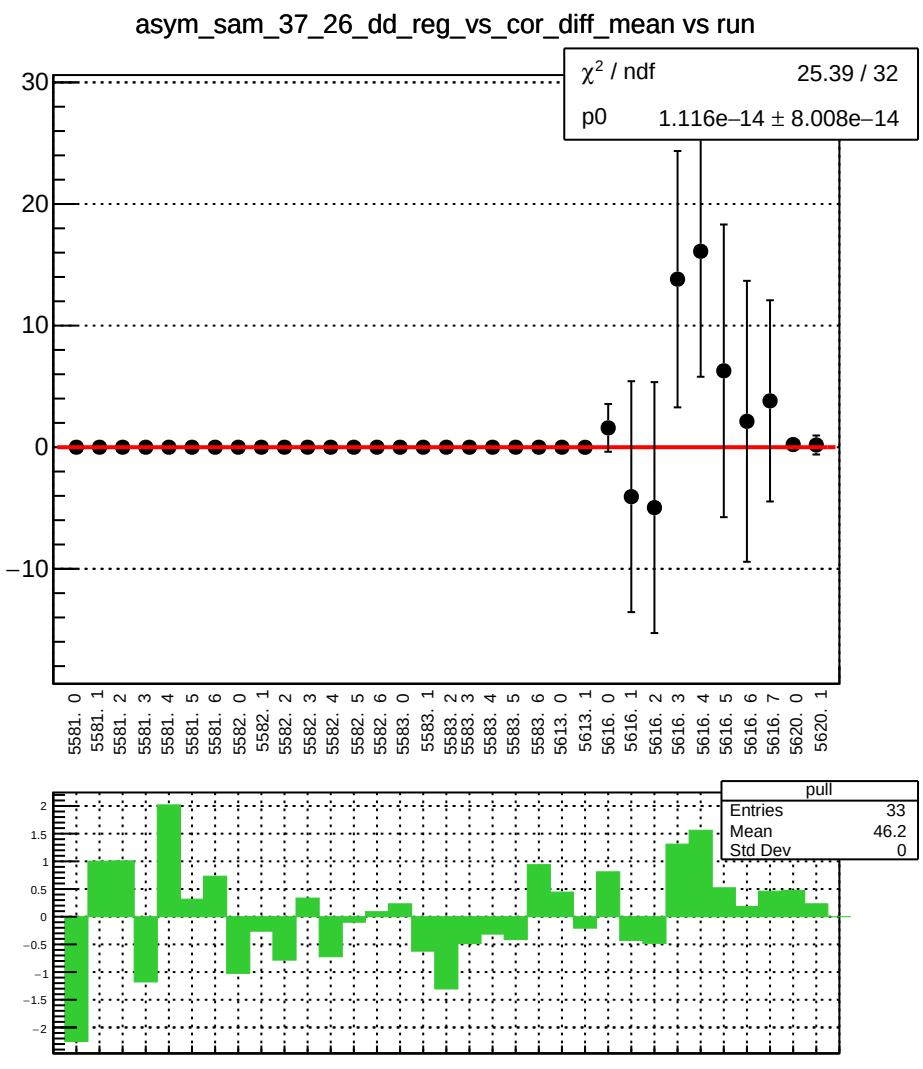

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 33.93 / 32
p0 753.4 ± 1326
20000
10000
0
−10000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −42.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.01326
Std Dev 1.014
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

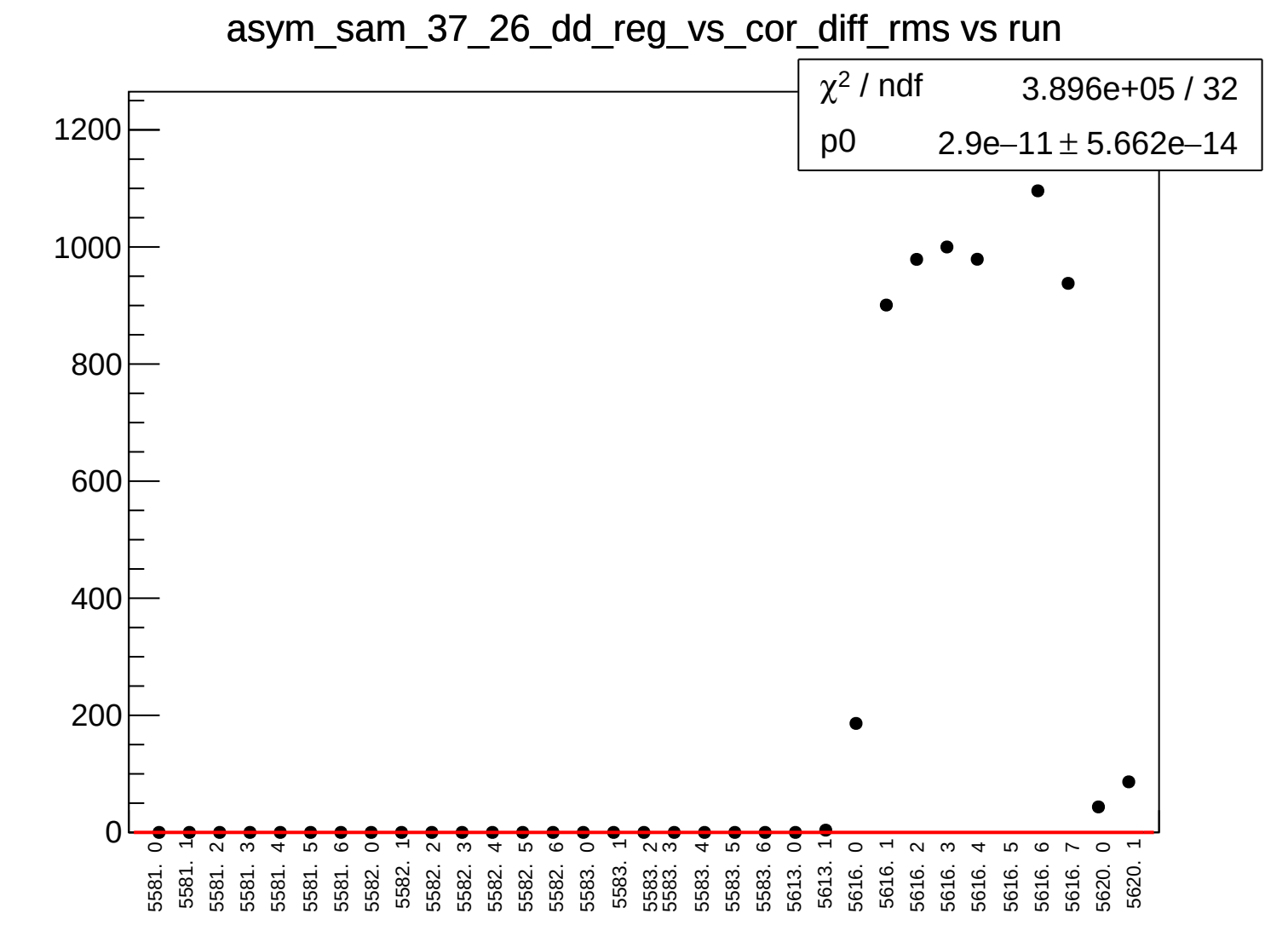

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 7531 / 32
p0 752.6 ± 0.9376
950
900
850
800
750
700
650
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

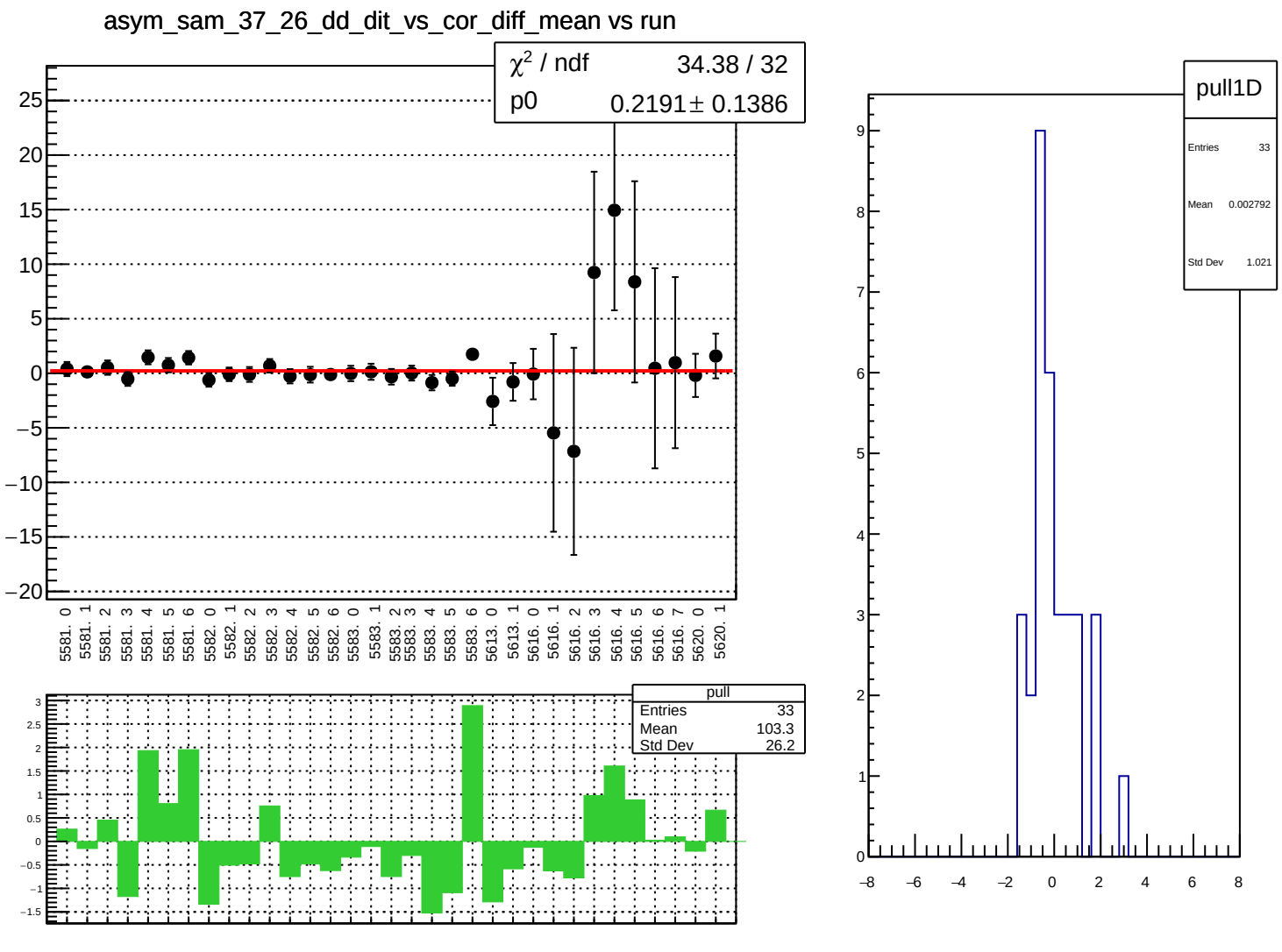

asym_sam_37_26_dd_mean vs run
χ² / ndf 31.66 / 32
p0 −511.4 ± 1335
30000
20000
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −59.78
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

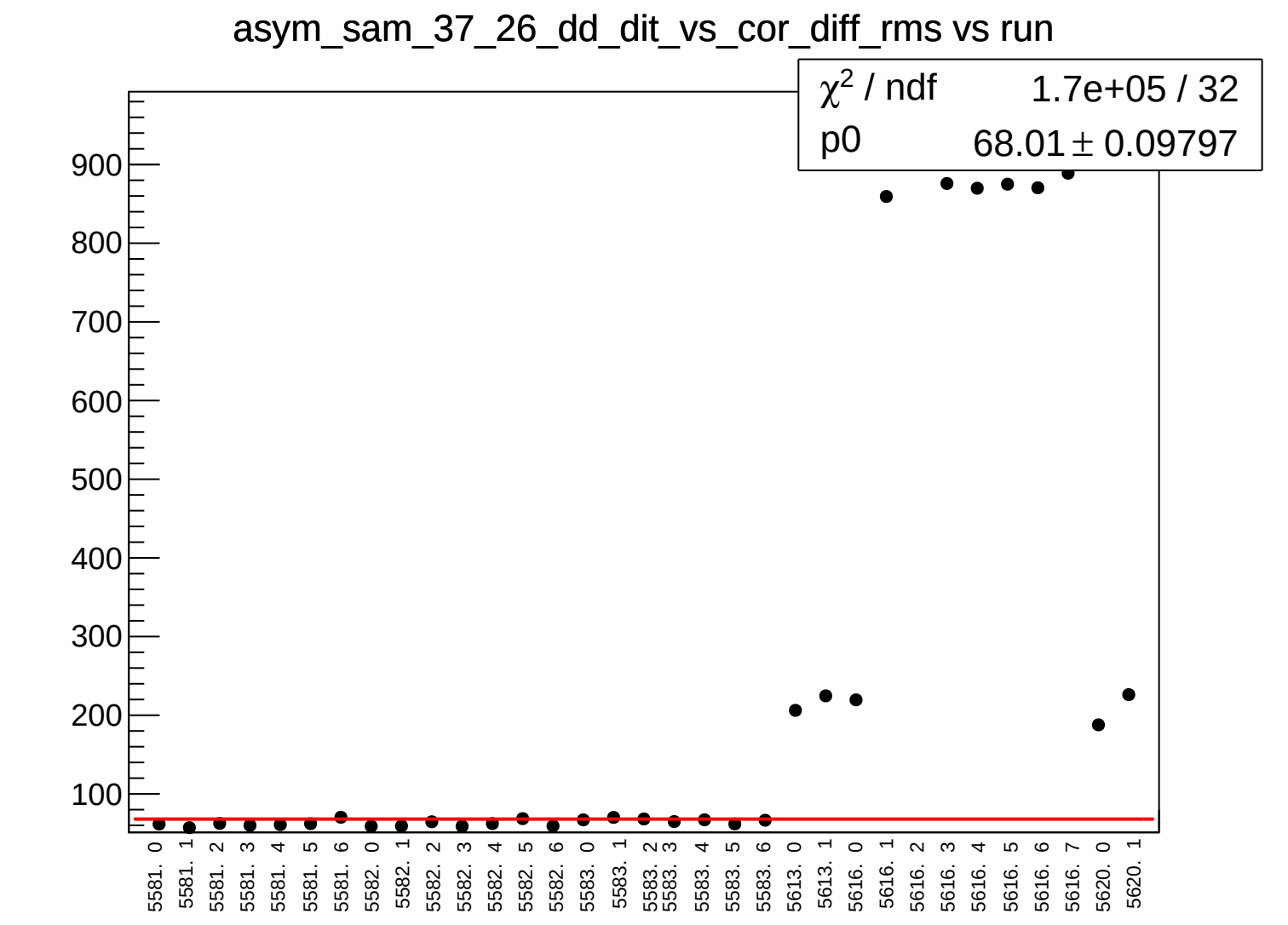

pull1D
Entries 33
Mean 0.01058
Std Dev 0.9794
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

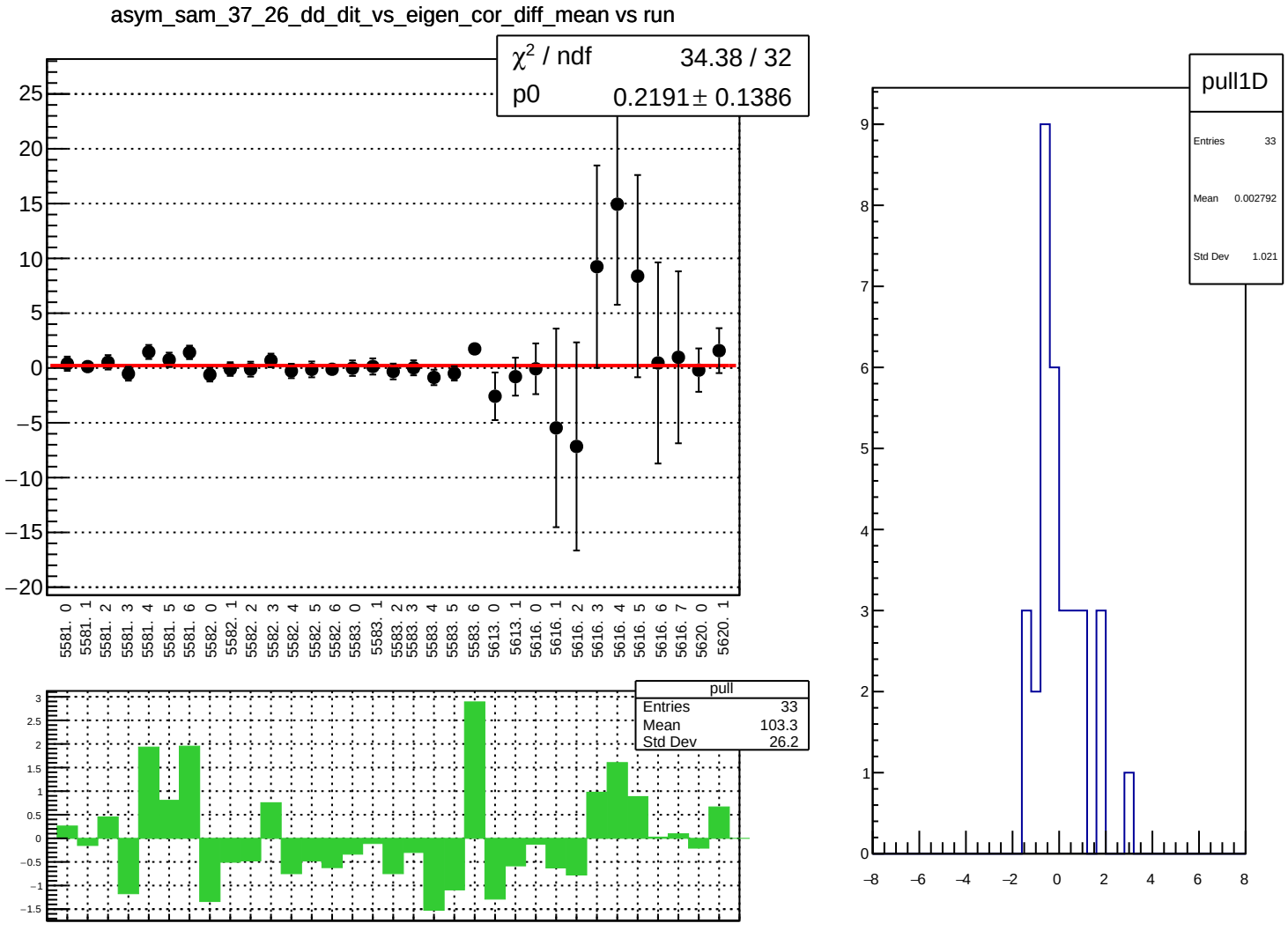

asym_sam_37_26_dd_rms vs run
χ² / ndf 2.292e+04 / 32
p0 748.7 ± 0.9439
1400
1300
1200
1100
1000
900
800
700
600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

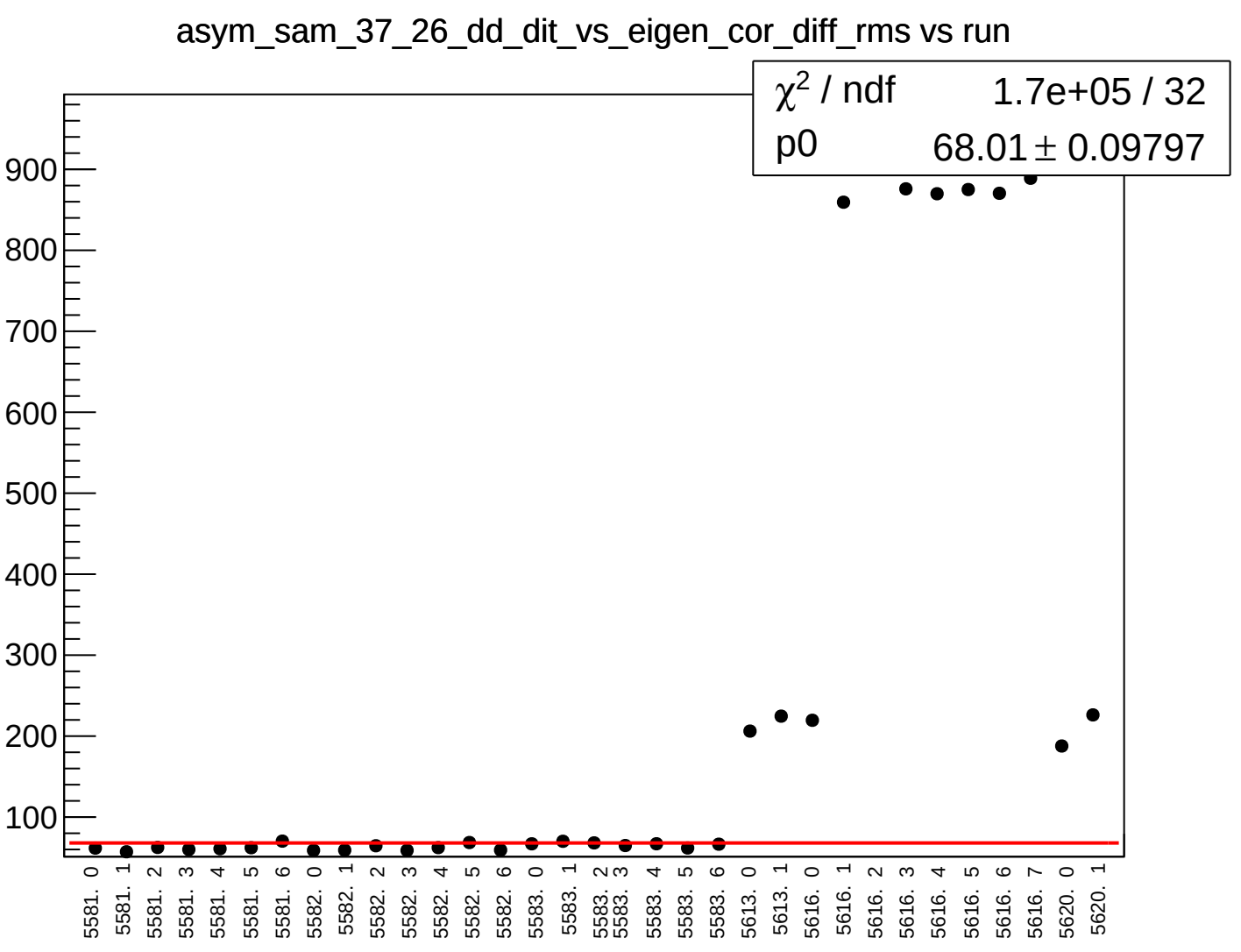

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 25.39 / 32
p0 1.116e−14 ± 8.008e−14
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 46.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.0637
Std Dev 0.8749
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

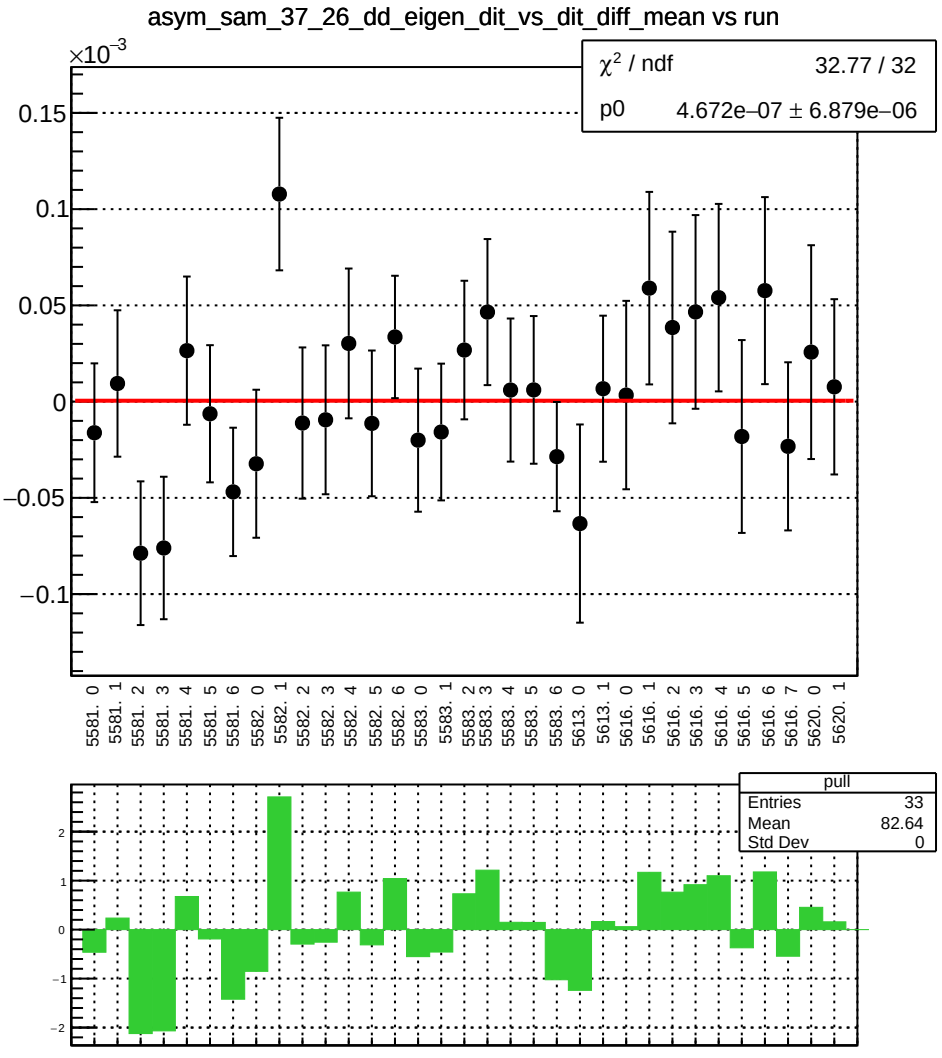

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 3.896e+05 / 32
p0 2.9e−11 ± 5.662e−14
1200
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

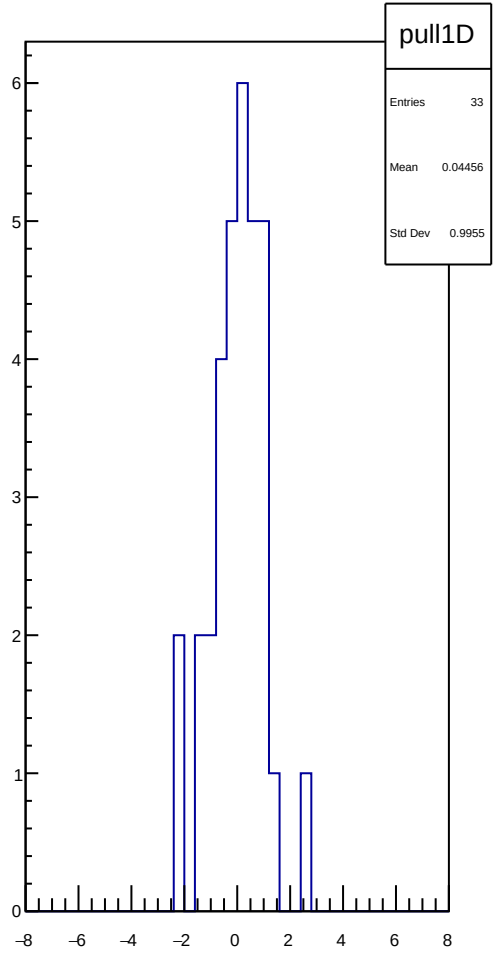

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 34.38 / 32
p0 0.2191 ± 0.1386
pull
Entries 33
Mean 103.3
Std Dev 26.2
pull1D
Entries 33
Mean 0.002792
Std Dev 1.021

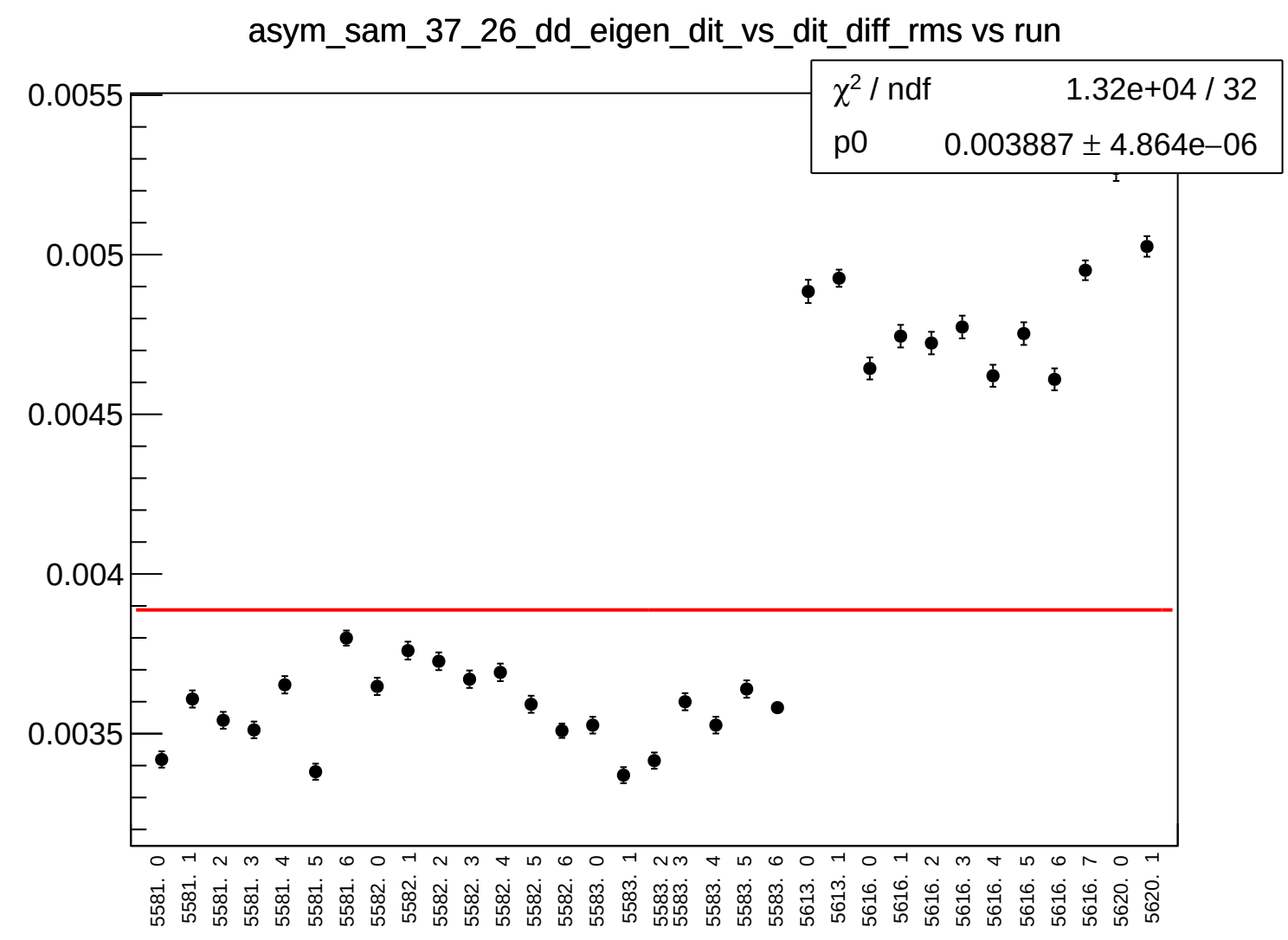

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.7e+05 / 32
p0 68.01 ± 0.09797
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

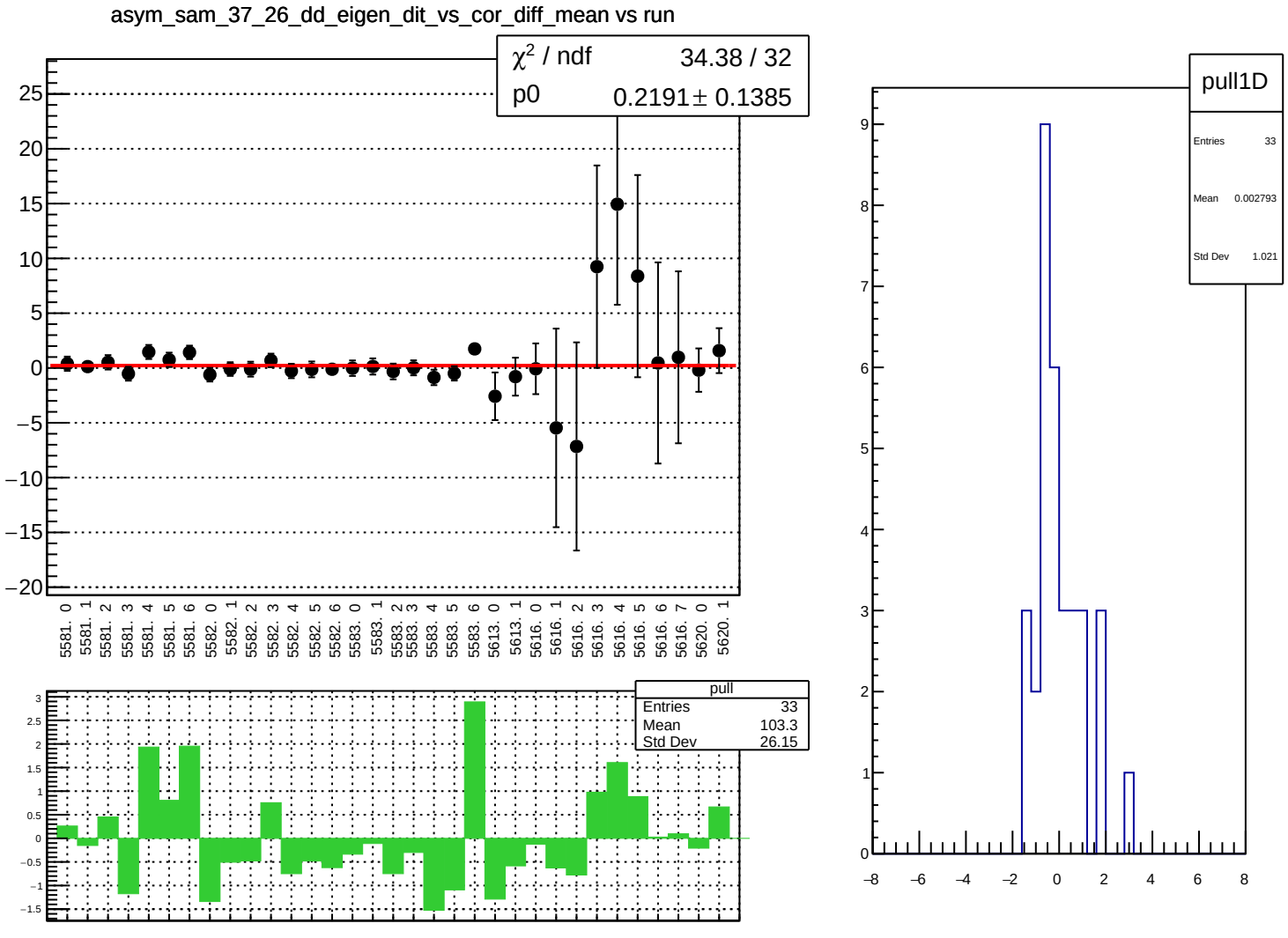

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.38 / 32
p0 0.2191 ± 0.1386
pull
Entries 33
Mean 103.3
Std Dev 26.2
pull1D
Entries 33
Mean 0.002792
Std Dev 1.021

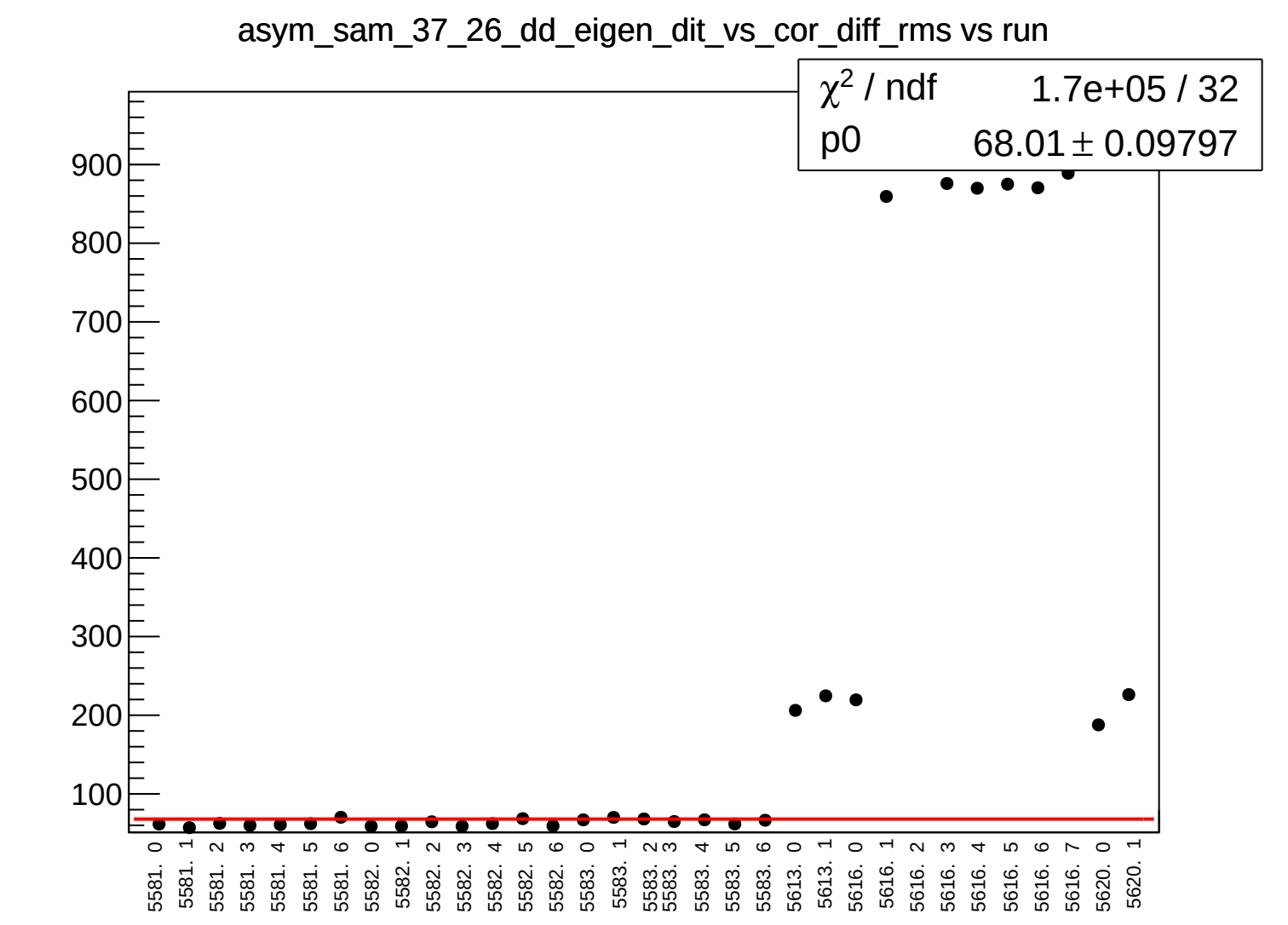

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.7e+05 / 32
p0 68.01 ± 0.09797
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

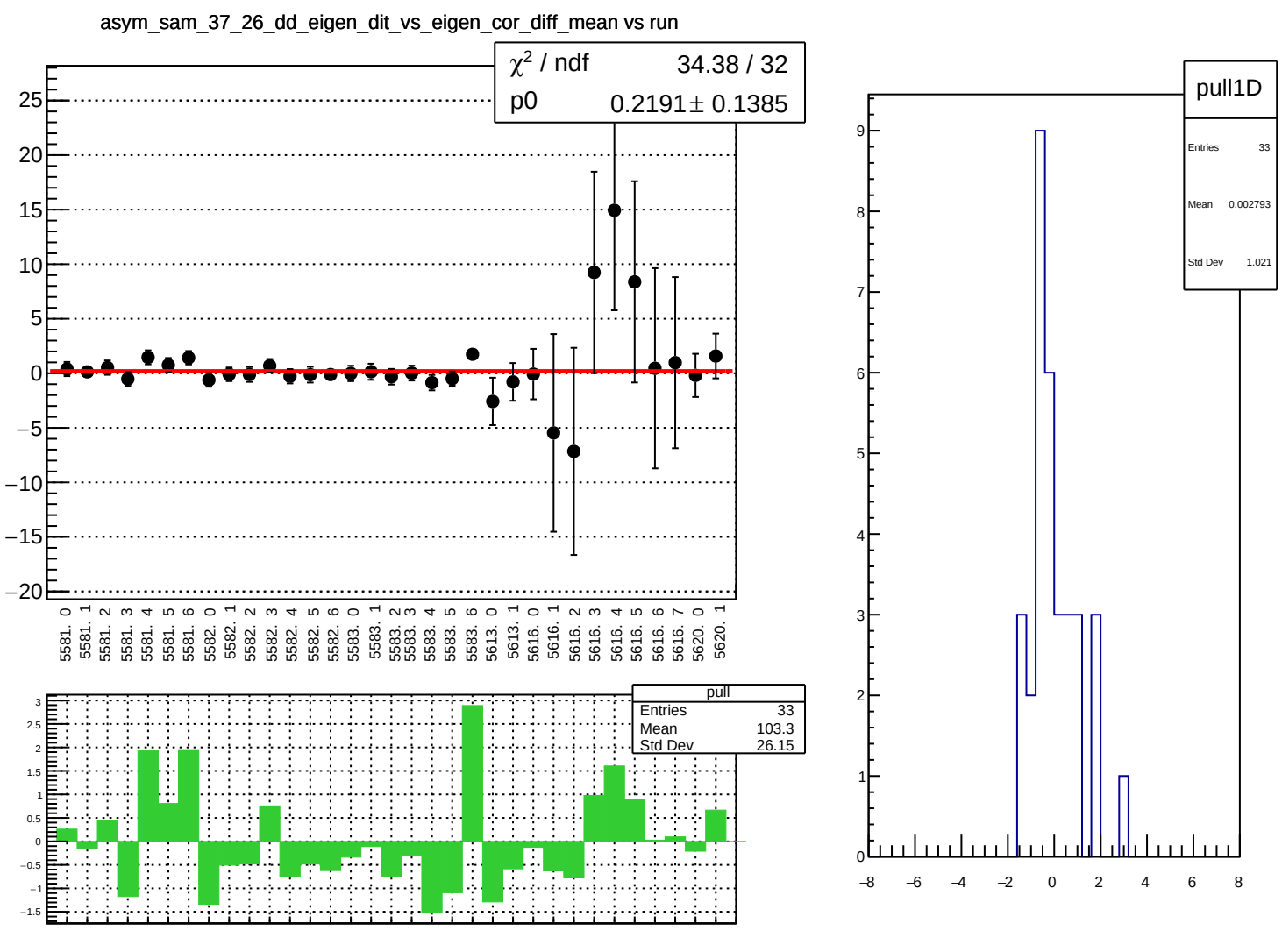

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 32.77 / 32
p0 4.672e−07 ± 6.879e−06
0.15
0.1
0.05
0
−0.05
−0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 82.64
Std Dev 0
2
1
0
−1
−2

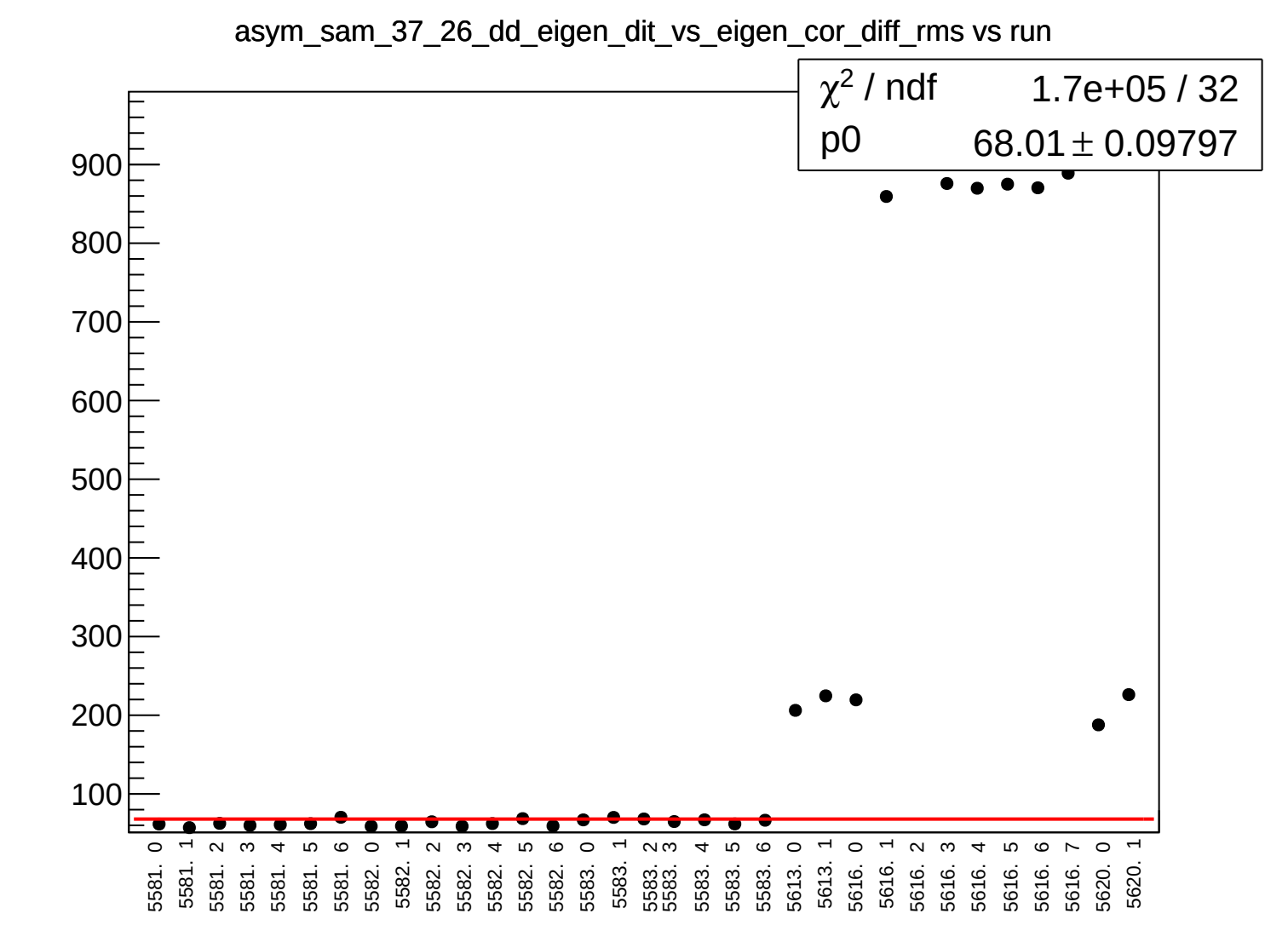

pull1D
Entries 33
Mean 0.04456
Std Dev 0.9955
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

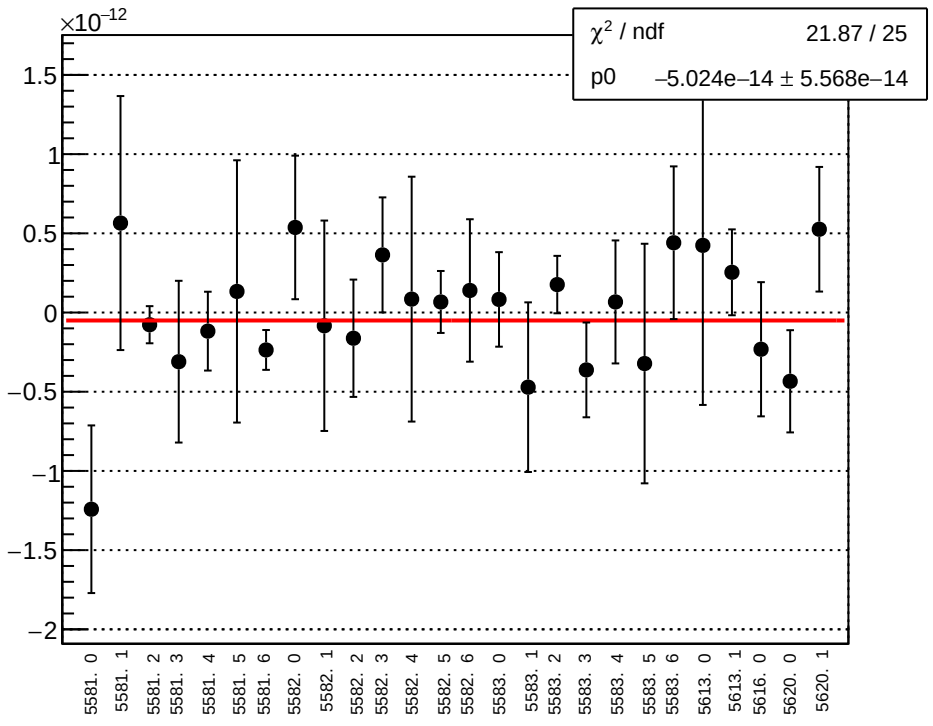

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.32e+04 / 32
p0 0.003887 ± 4.864e−06
0.0055
0.005
0.0045
0.004
0.0035
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

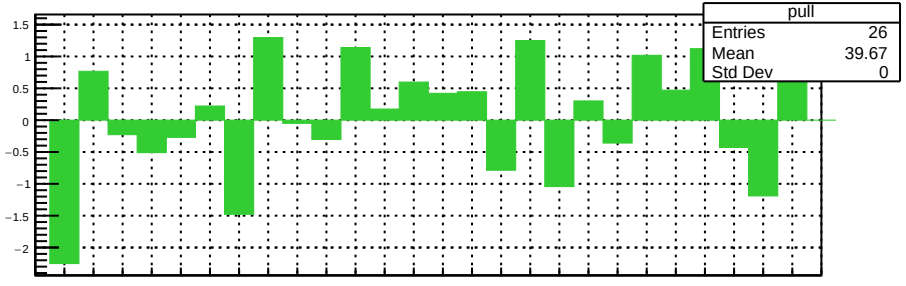

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 34.38 / 32
p0 0.2191 ± 0.1385
pull
Entries 33
Mean 103.3
Std Dev 26.15
pull1D
Entries 33
Mean 0.002793
Std Dev 1.021

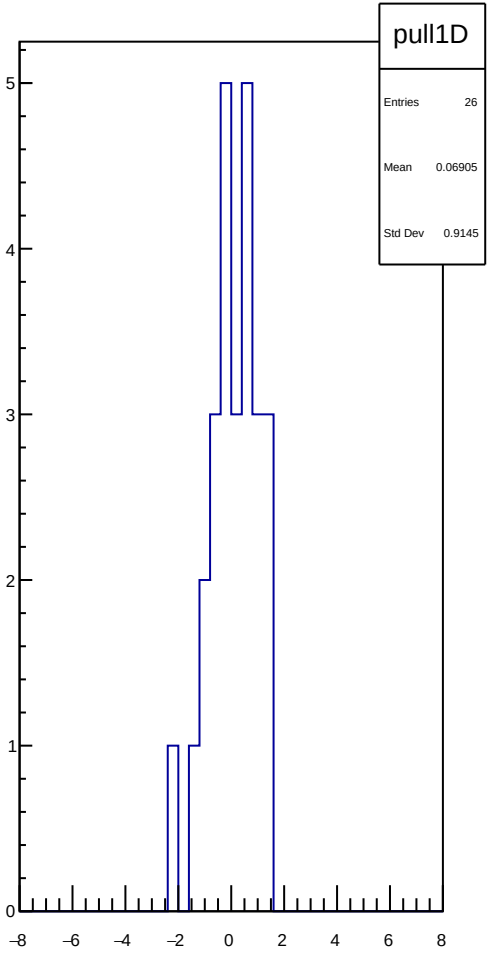

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.7e+05 / 32
p0 68.01 ± 0.09797
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

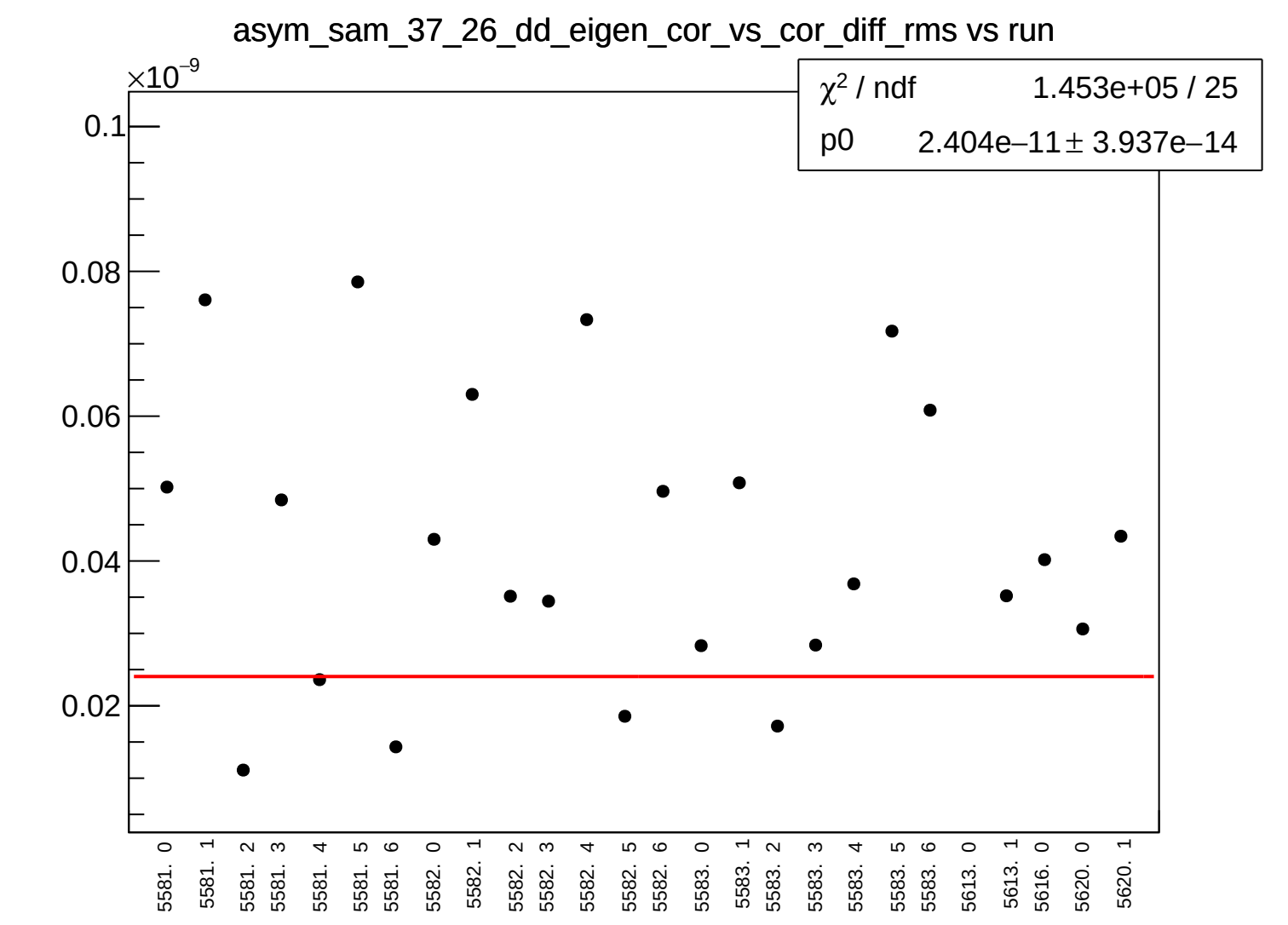

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 34.38 / 32
p0 0.2191 ± 0.1385
pull
Entries 33
Mean 103.3
Std Dev 26.15
pull1D
Entries 33
Mean 0.002793
Std Dev 1.021

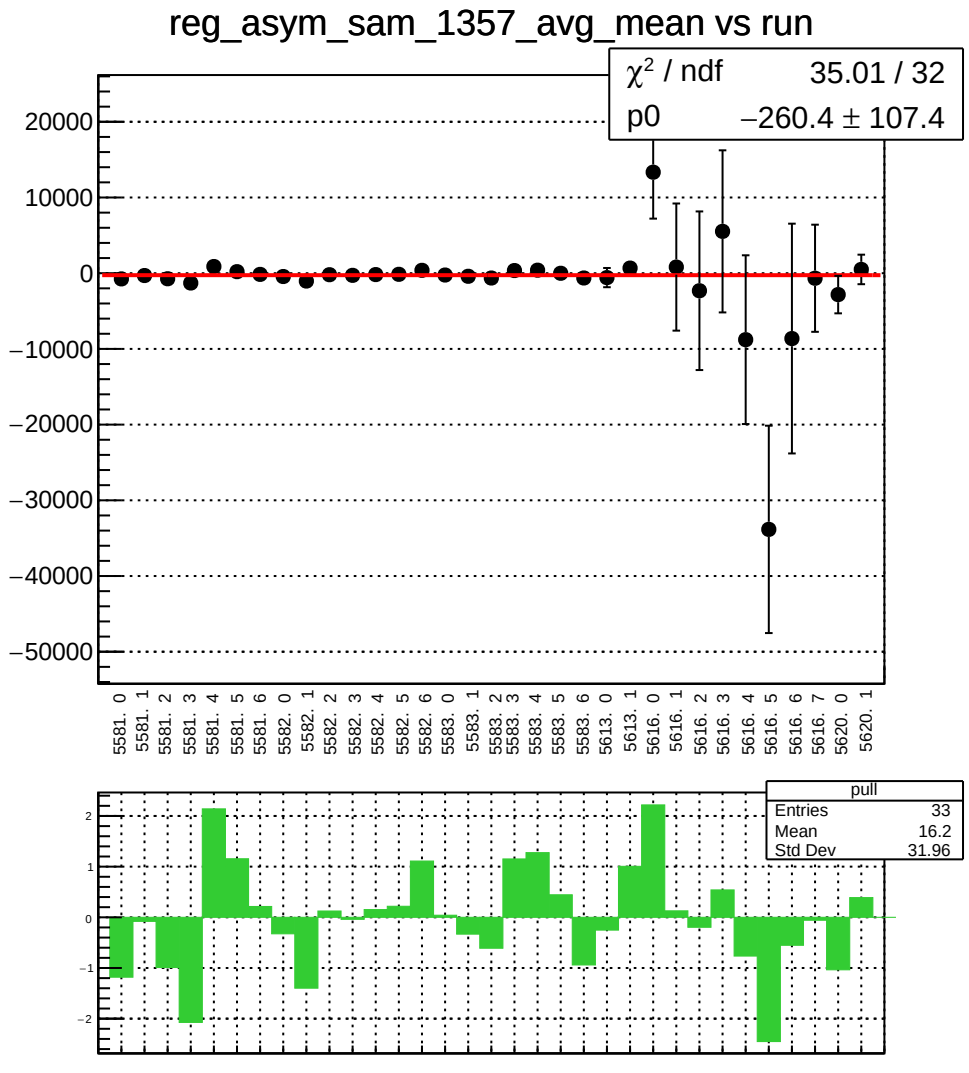

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.7e+05 / 32
p0 68.01 ± 0.09797
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

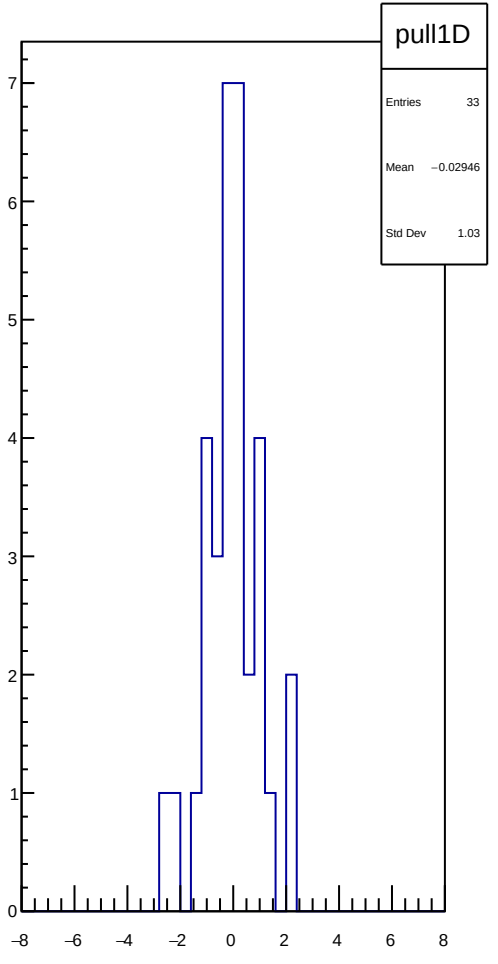

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 21.87 / 25
p0 −5.024e−14 ± 5.568e−14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

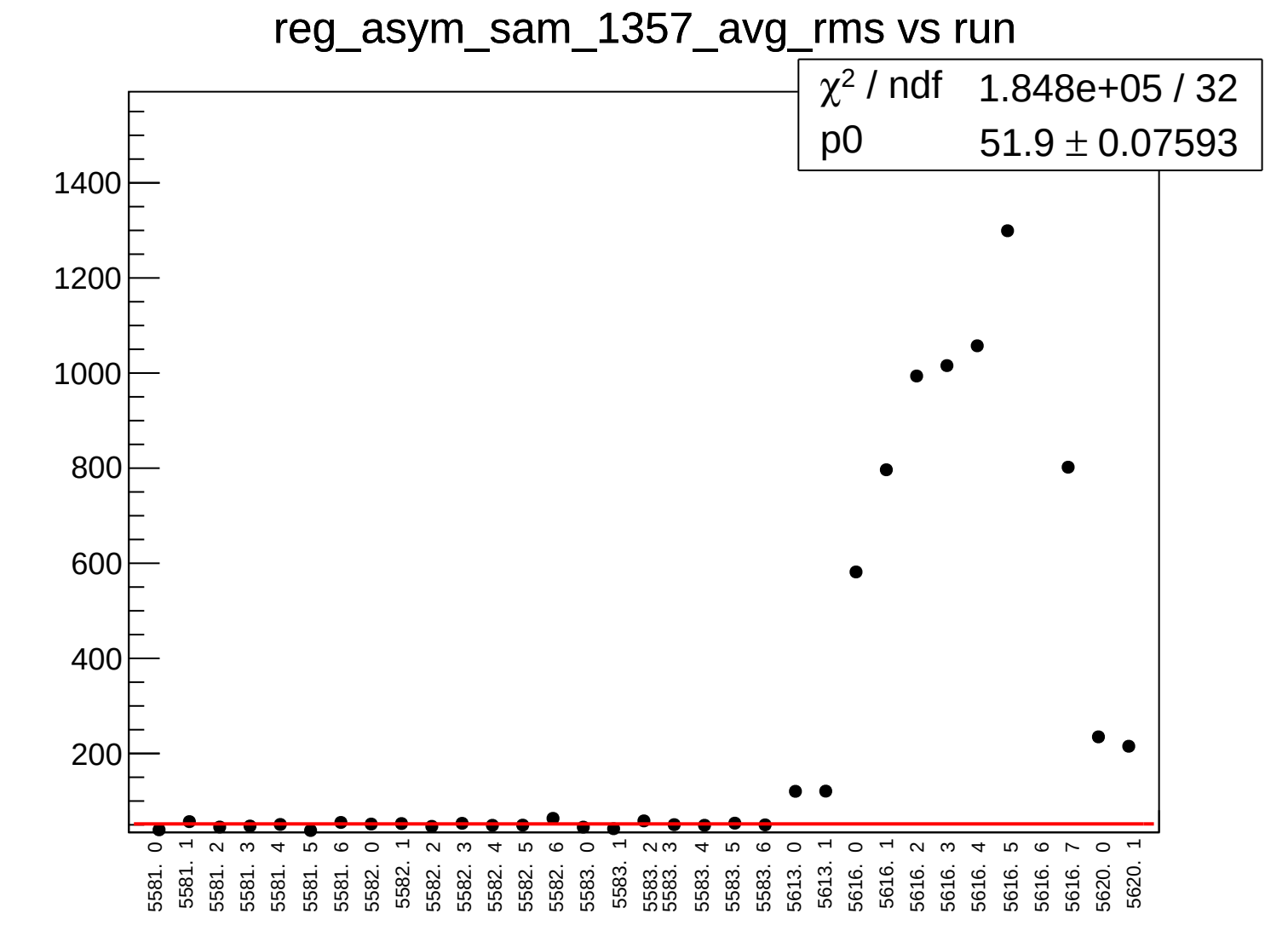

pull
Entries 26
Mean 39.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

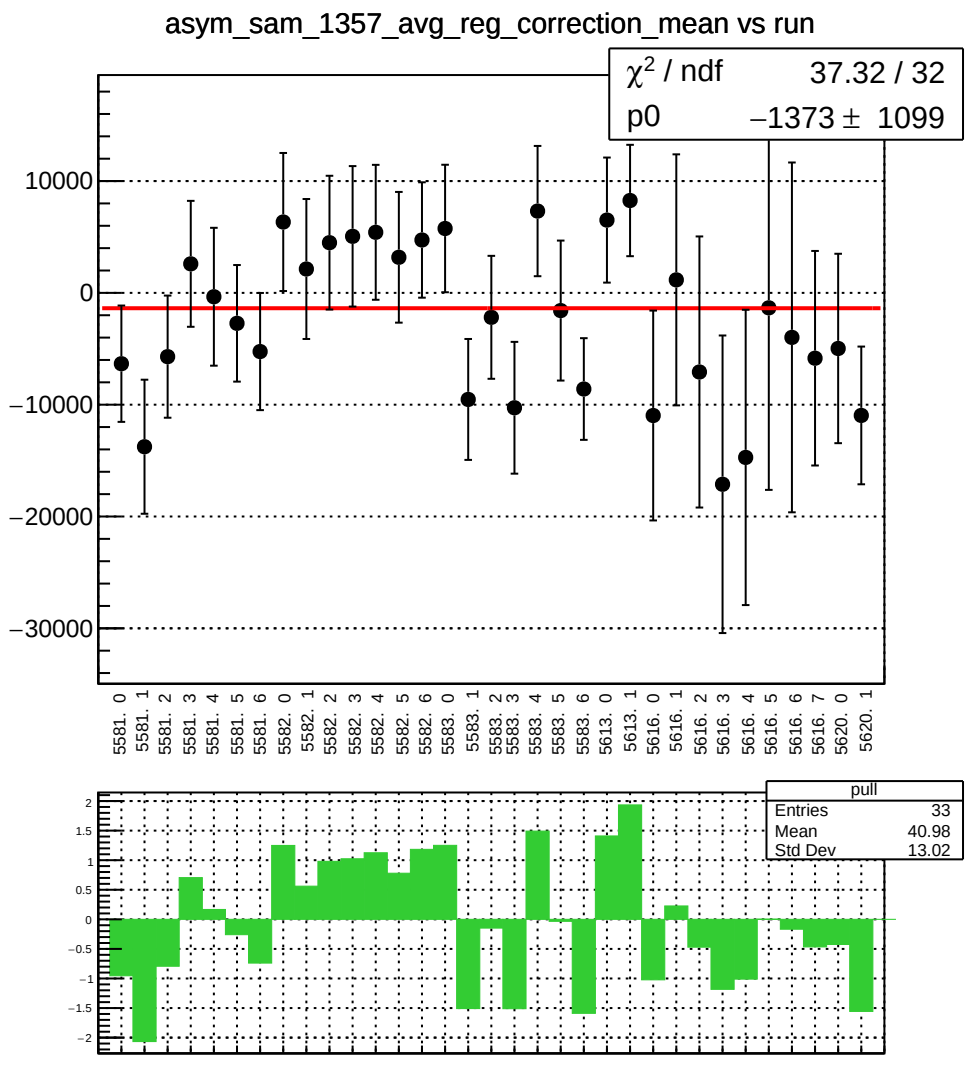

pull1D
Entries 26
Mean 0.06905
Std Dev 0.9145
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

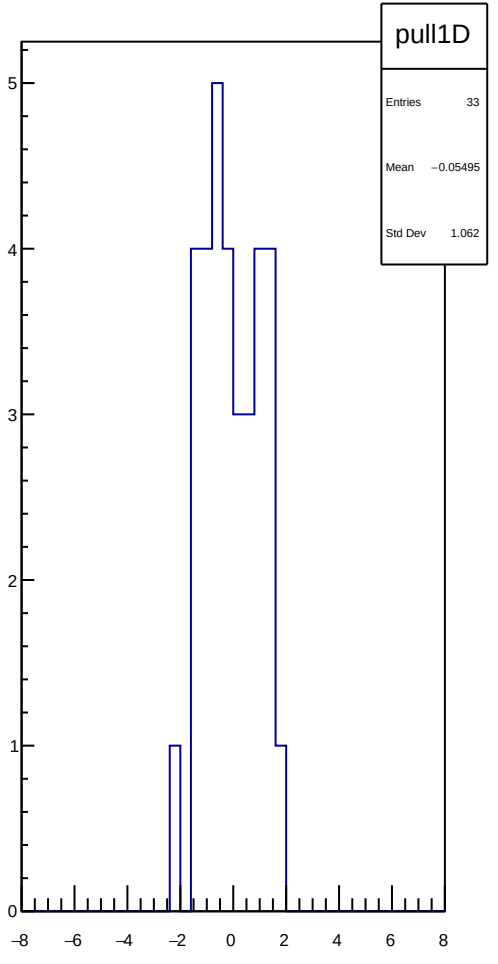

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.453e+05 / 25
p0 2.404e−11 ± 3.937e−14
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

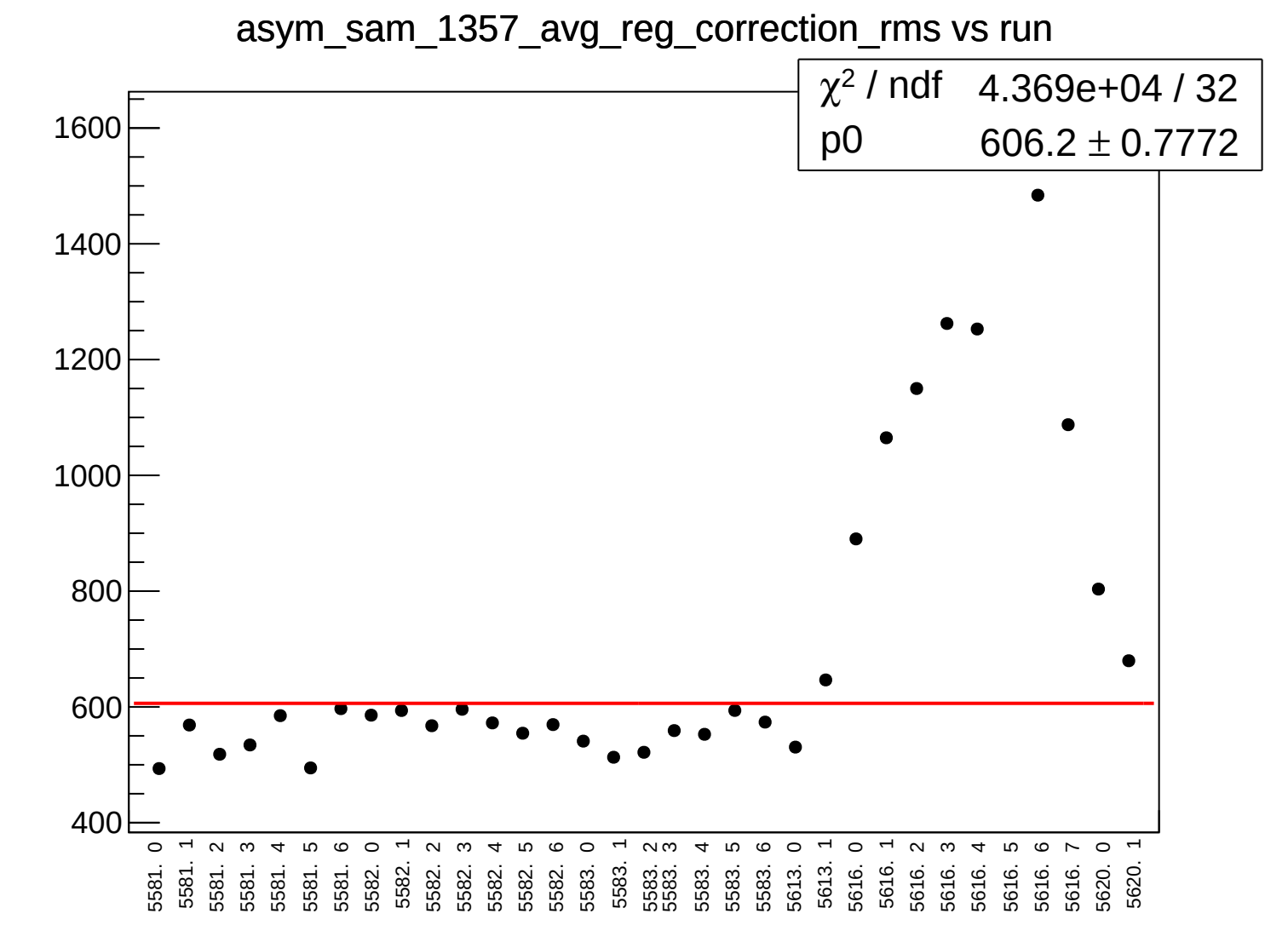

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 35.01 / 32
p0 −260.4 ± 107.4
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.2
Std Dev 31.96
2
1
0
−1
−2

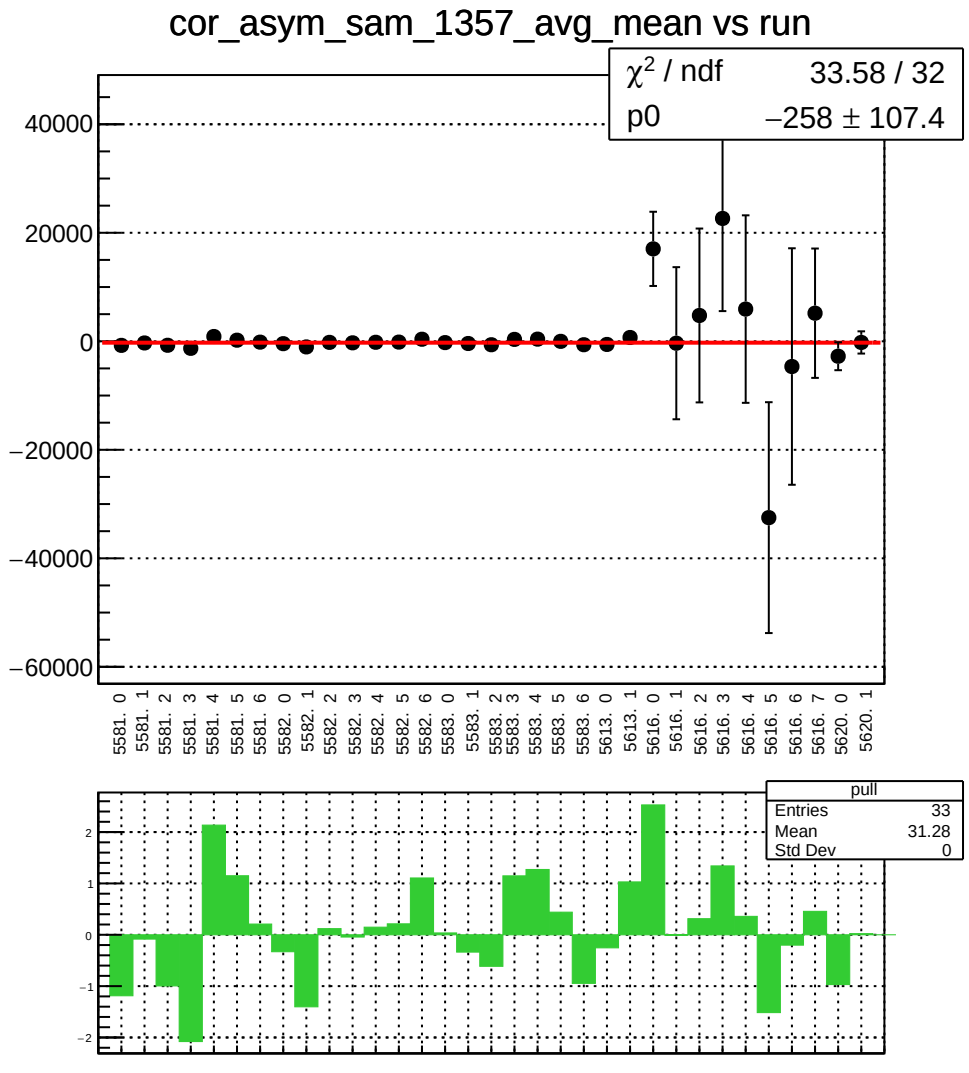

pull1D
Entries 33
Mean −0.02946
Std Dev 1.03
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

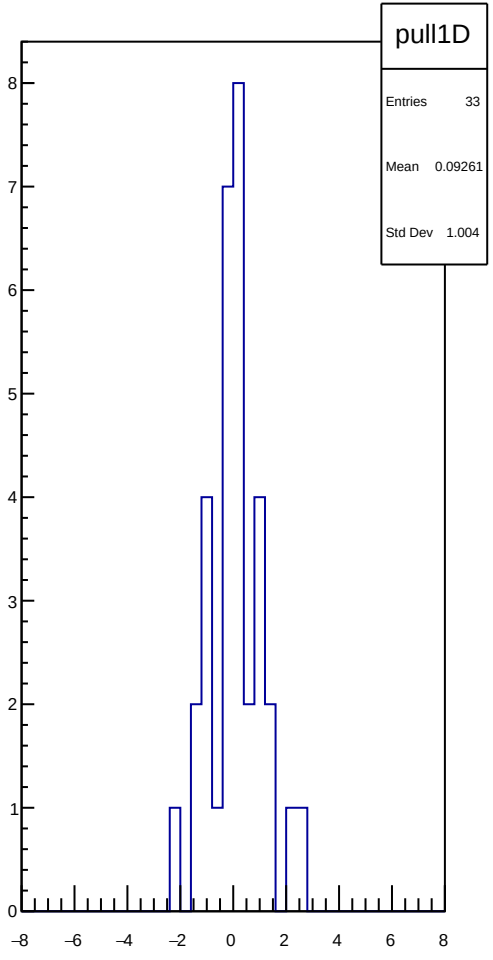

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 1.848e+05 / 32
p0 51.9 ± 0.07593
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

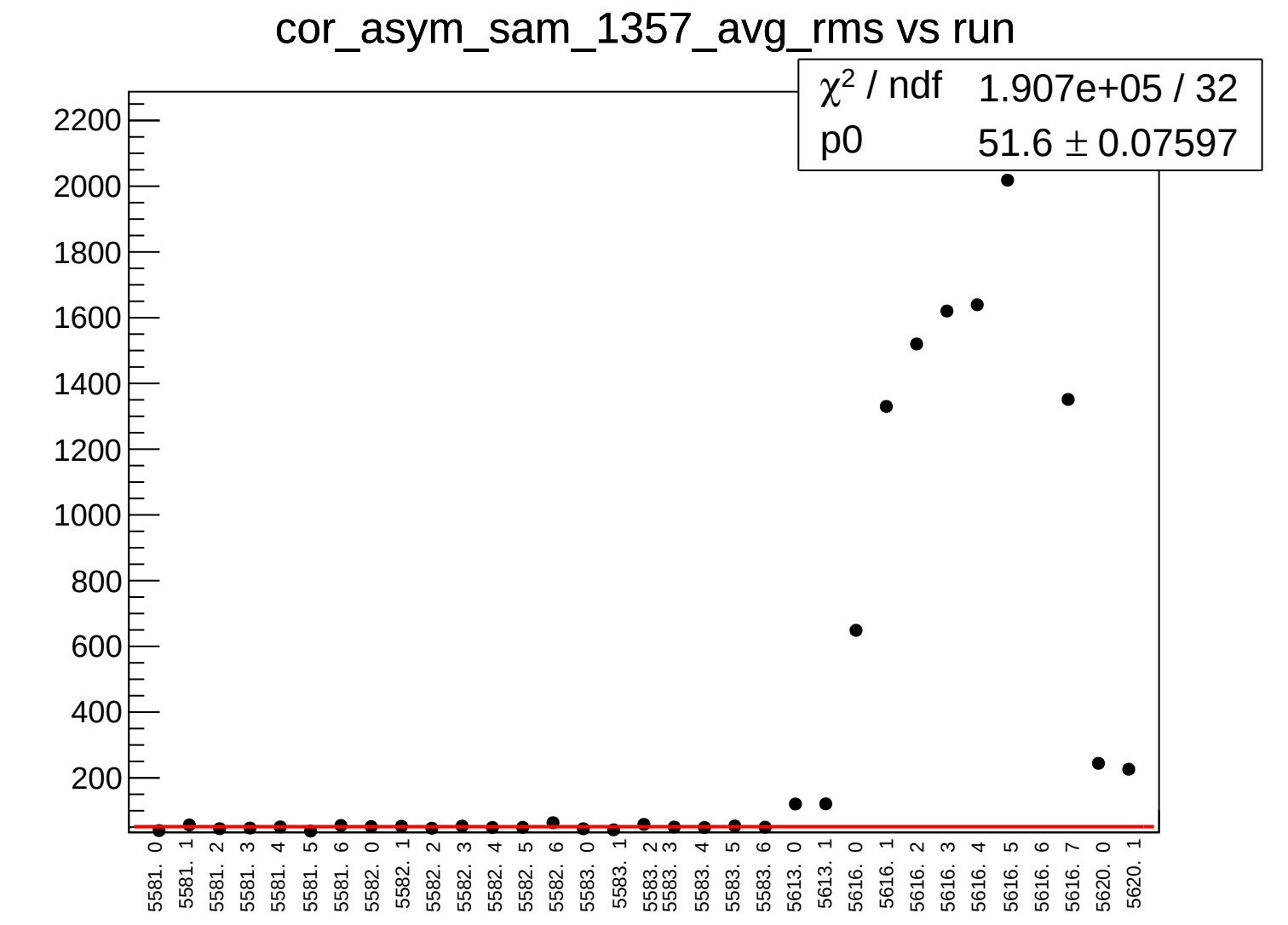

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 37.32 / 32
p0 −1373 ± 1099
10000
0
−10000
−20000
−30000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.98
Std Dev 13.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

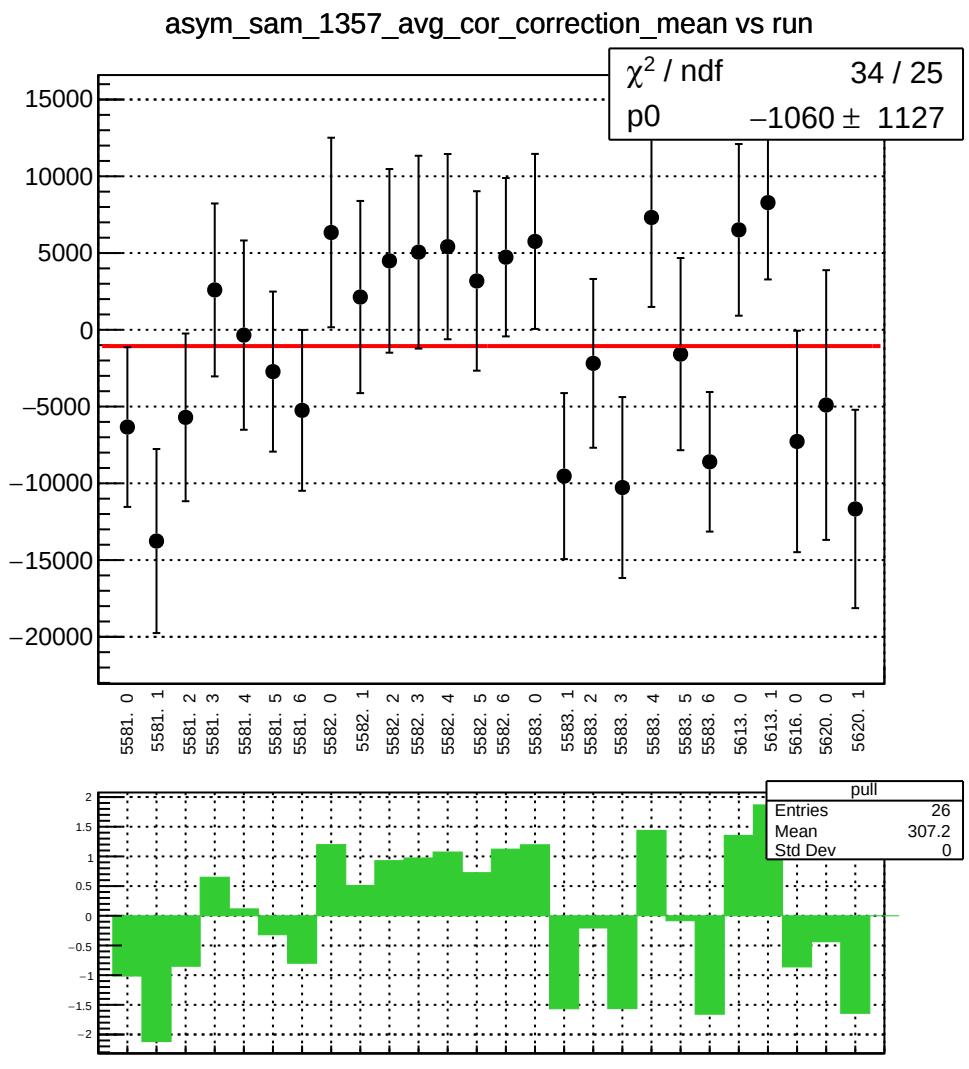

pull1D
Entries 33
Mean −0.05495
Std Dev 1.062
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

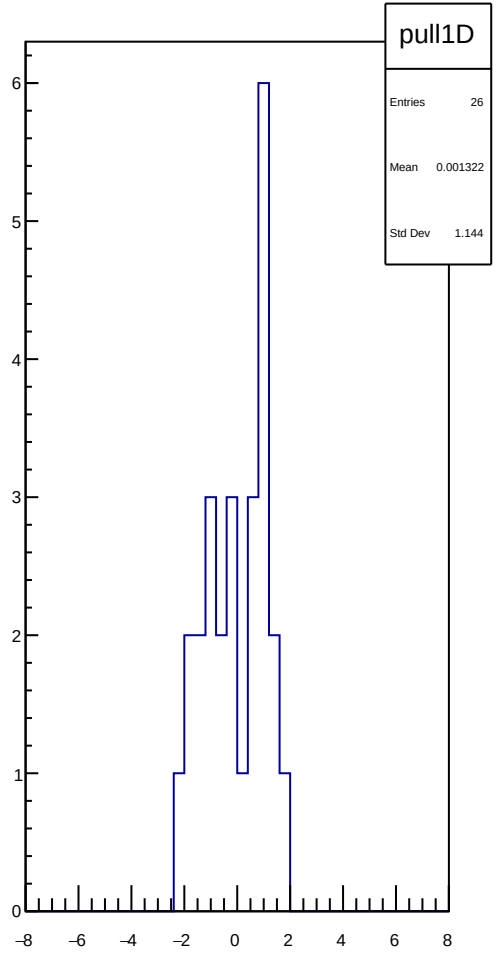

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 4.369e+04 / 32
p0 606.2 ± 0.7772
1600
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

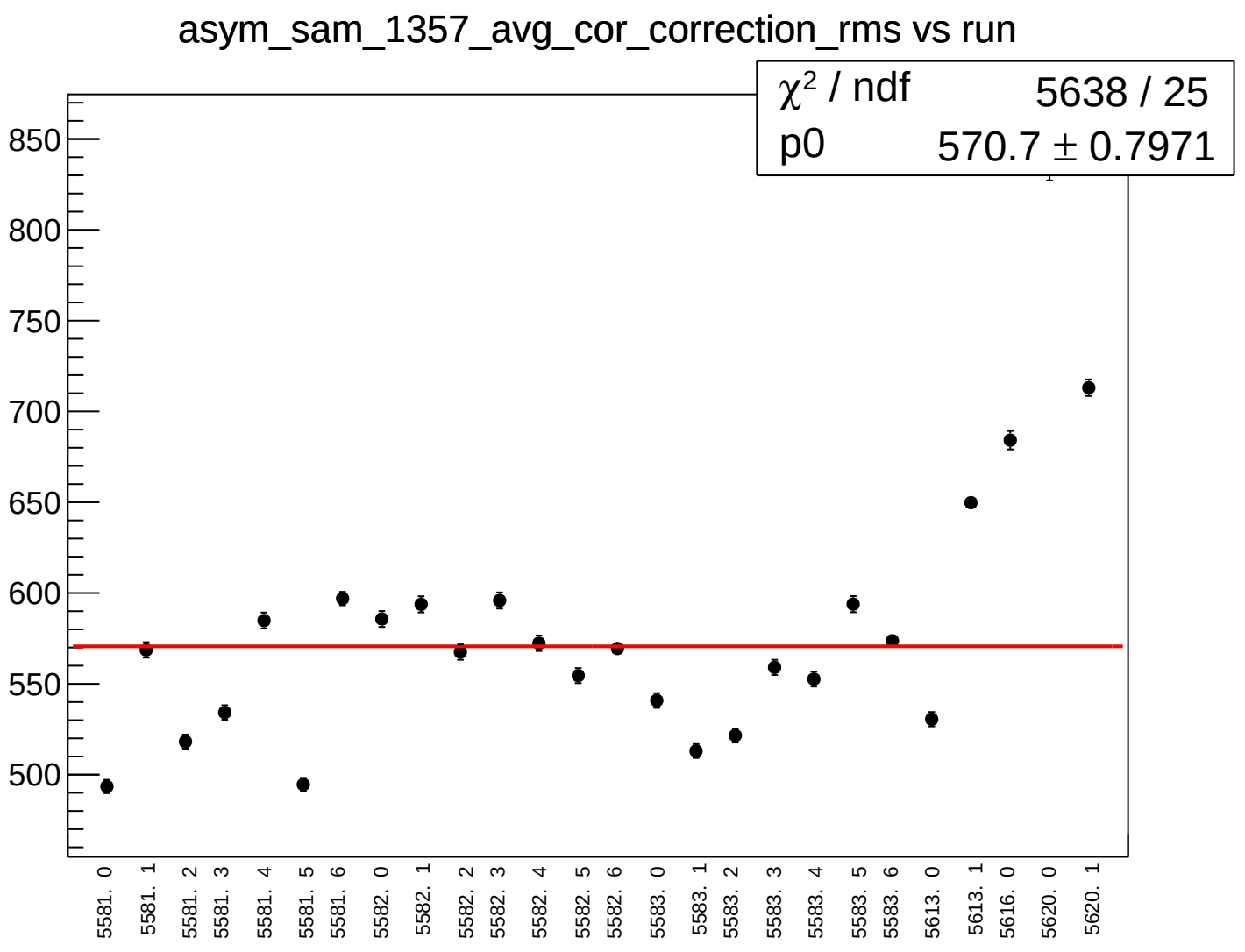

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 33.58 / 32
p0 −258 ± 107.4
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.28
Std Dev 0
2
1
0
−1
−2

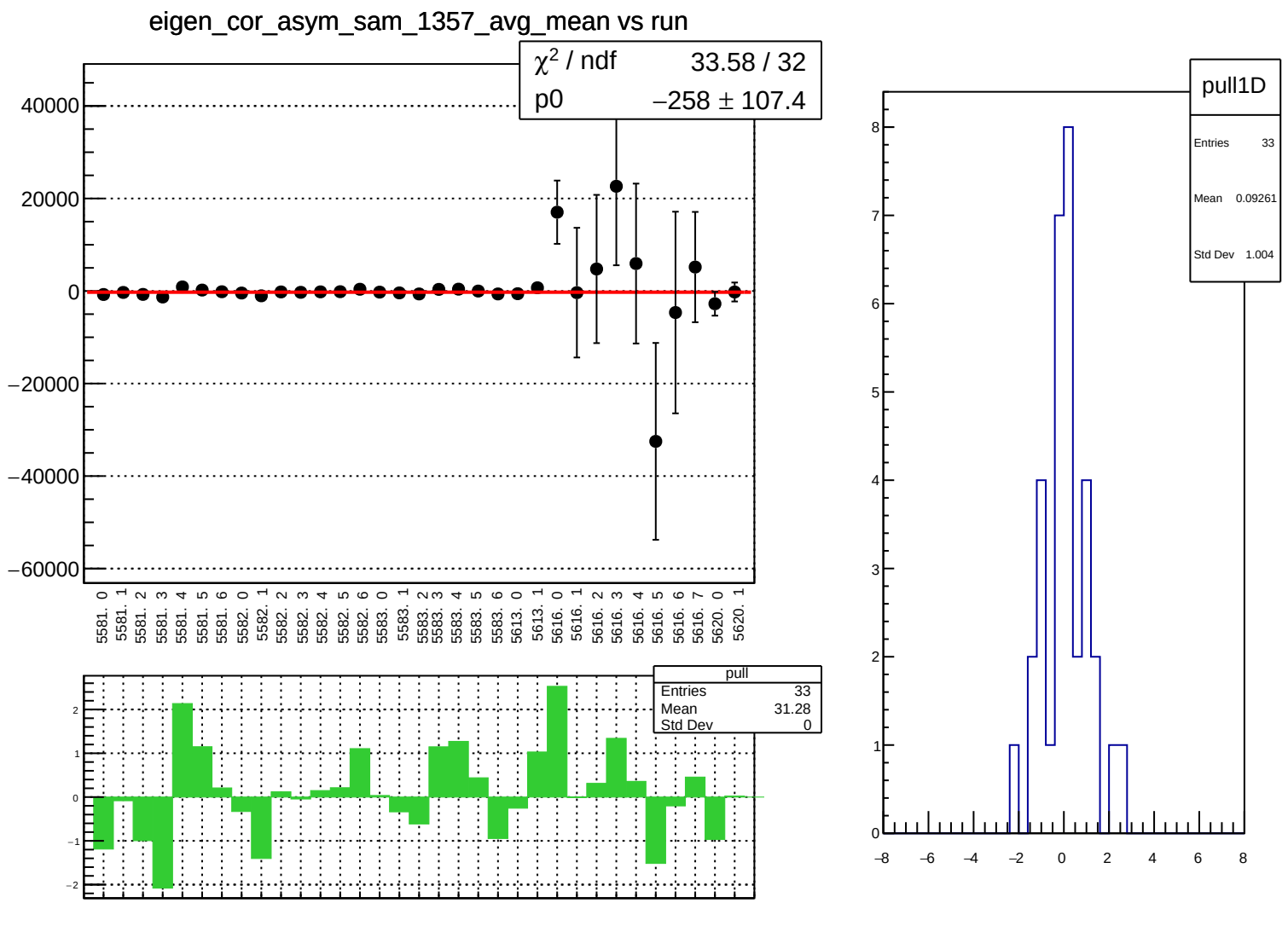

pull1D
Entries 33
Mean 0.09261
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

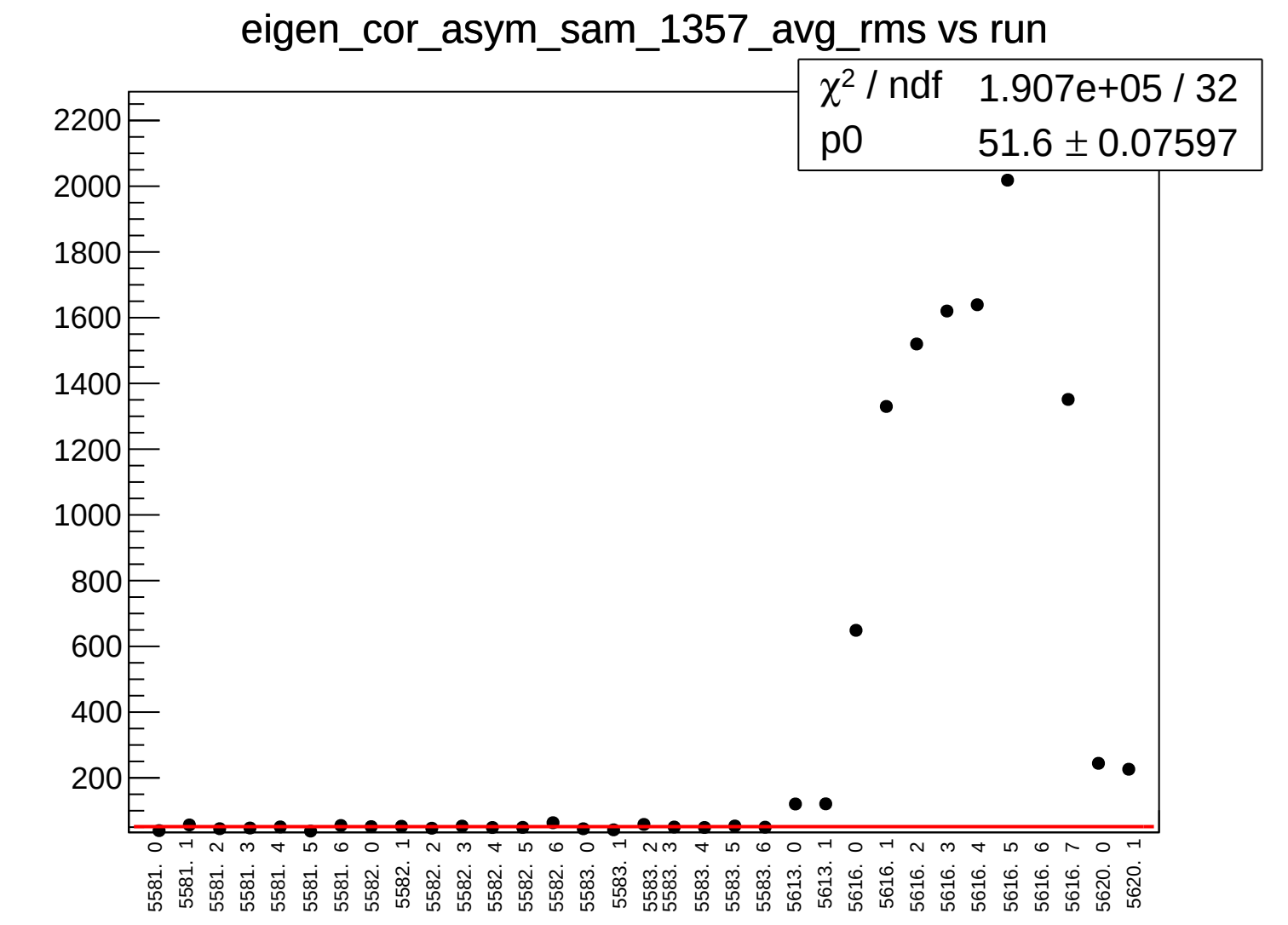

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.907e+05 / 32
p0 51.6 ± 0.07597
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

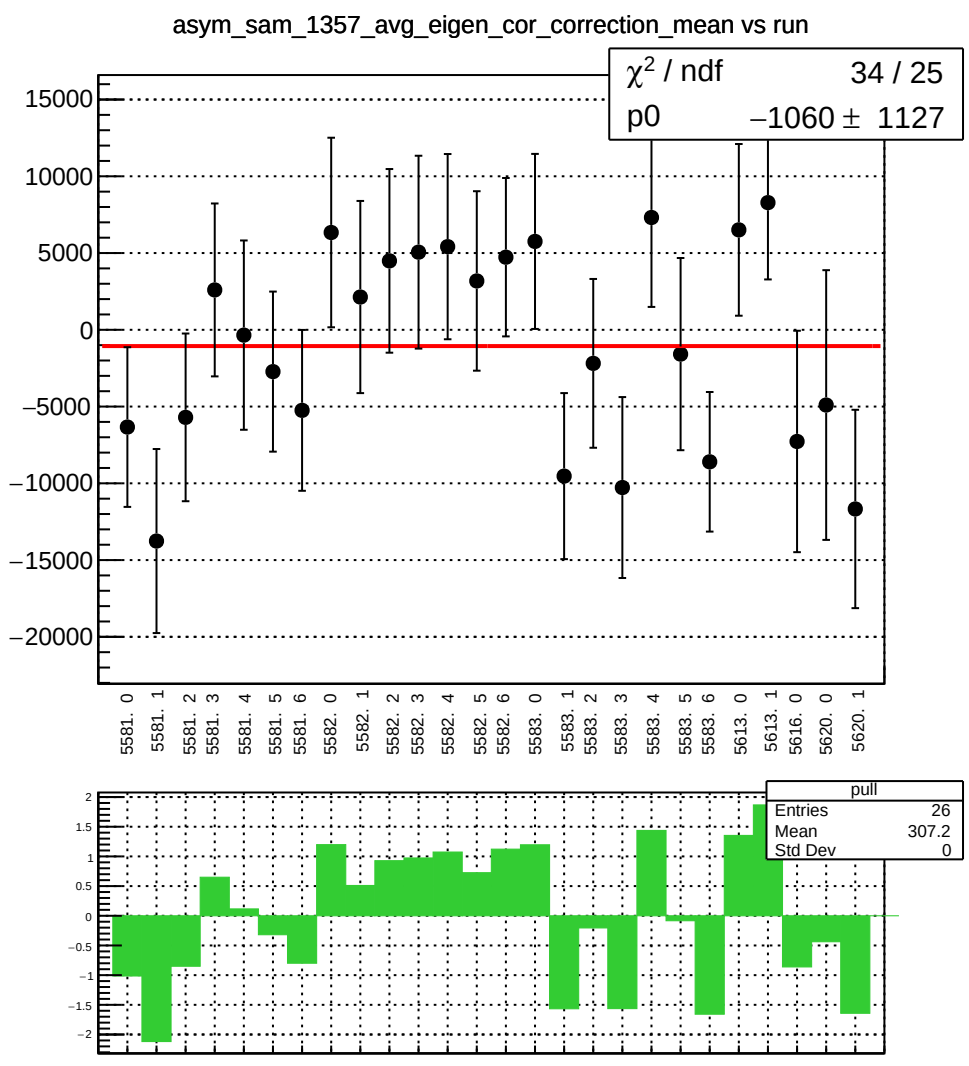

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 34 / 25
p0 −1060 ± 1127
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 307.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

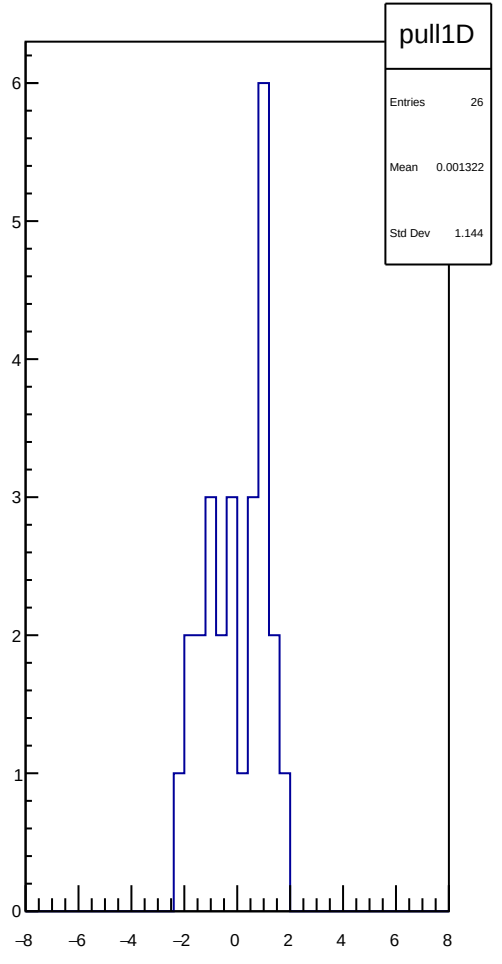

pull1D
Entries 26
Mean 0.001322
Std Dev 1.144
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

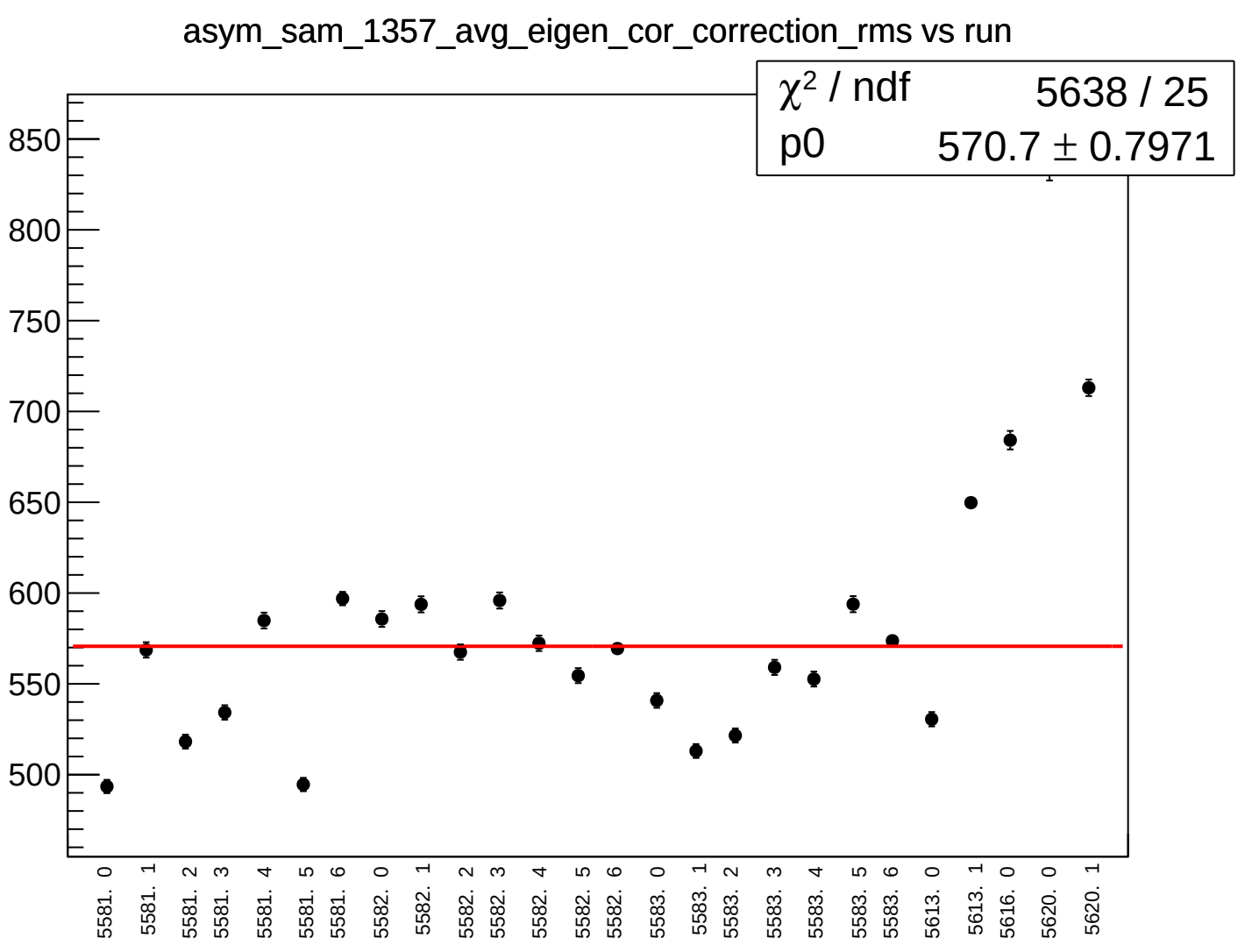

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 5638 / 25
p0 570.7 ± 0.7971
850
800
750
700
650
600
550
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

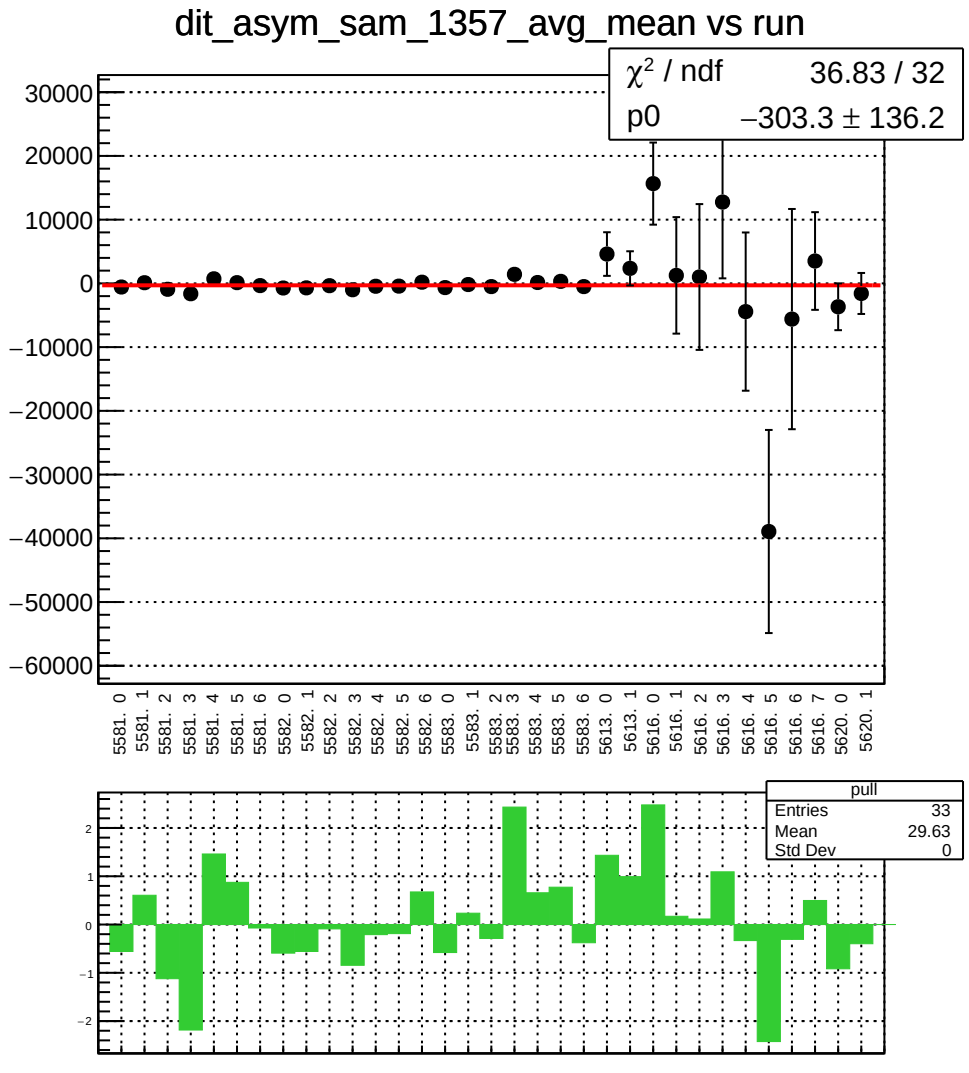

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 33.58 / 32
p0 −258 ± 107.4
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.28
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.09261
Std Dev 1.004
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

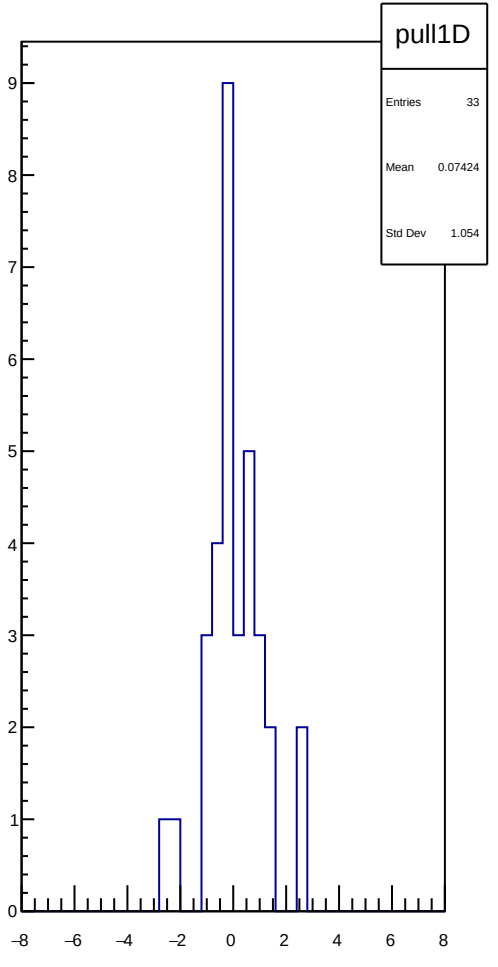

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.907e+05 / 32
p0 51.6 ± 0.07597
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

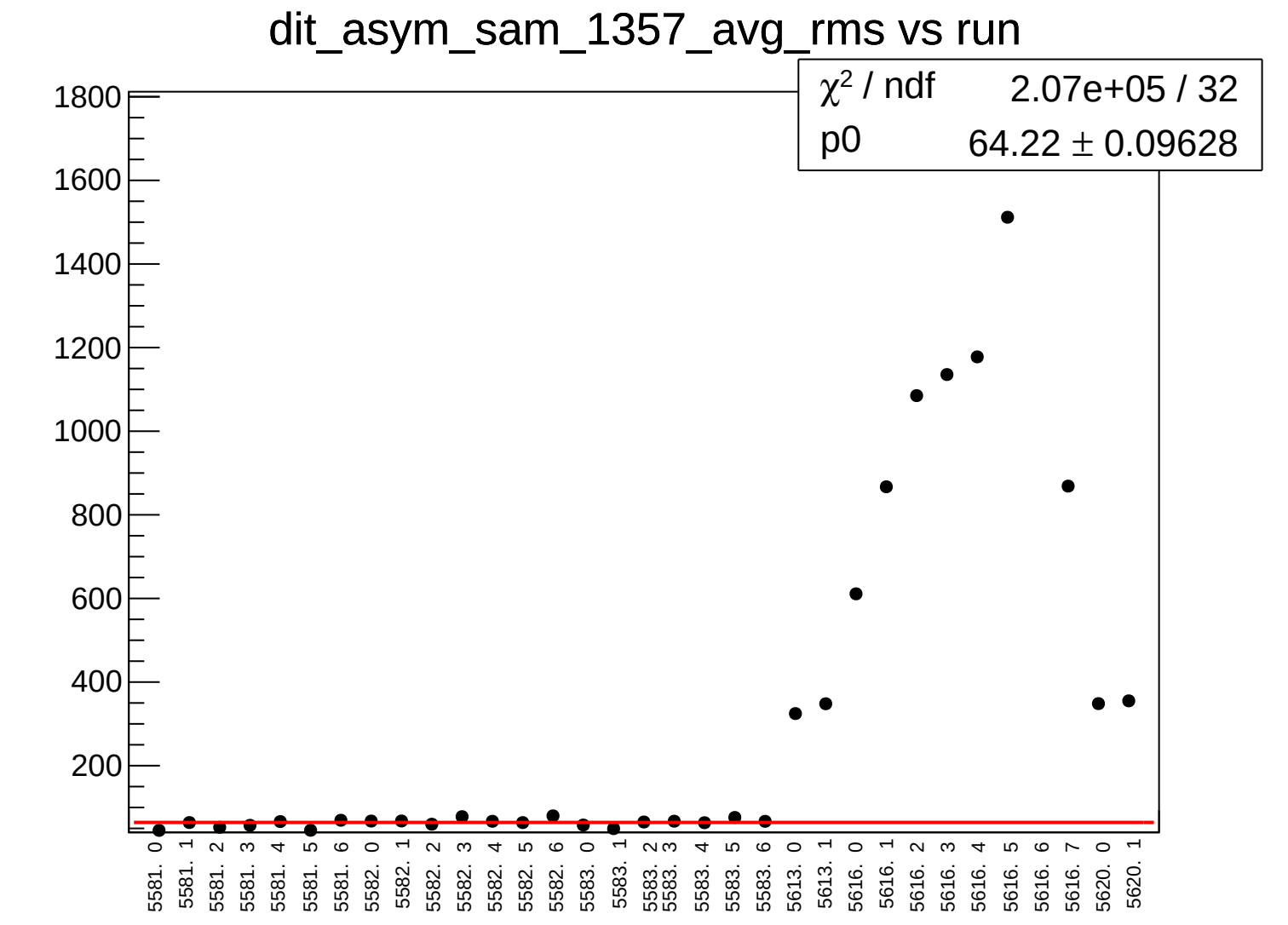

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 34 / 25
p0 −1060 ± 1127
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 307.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

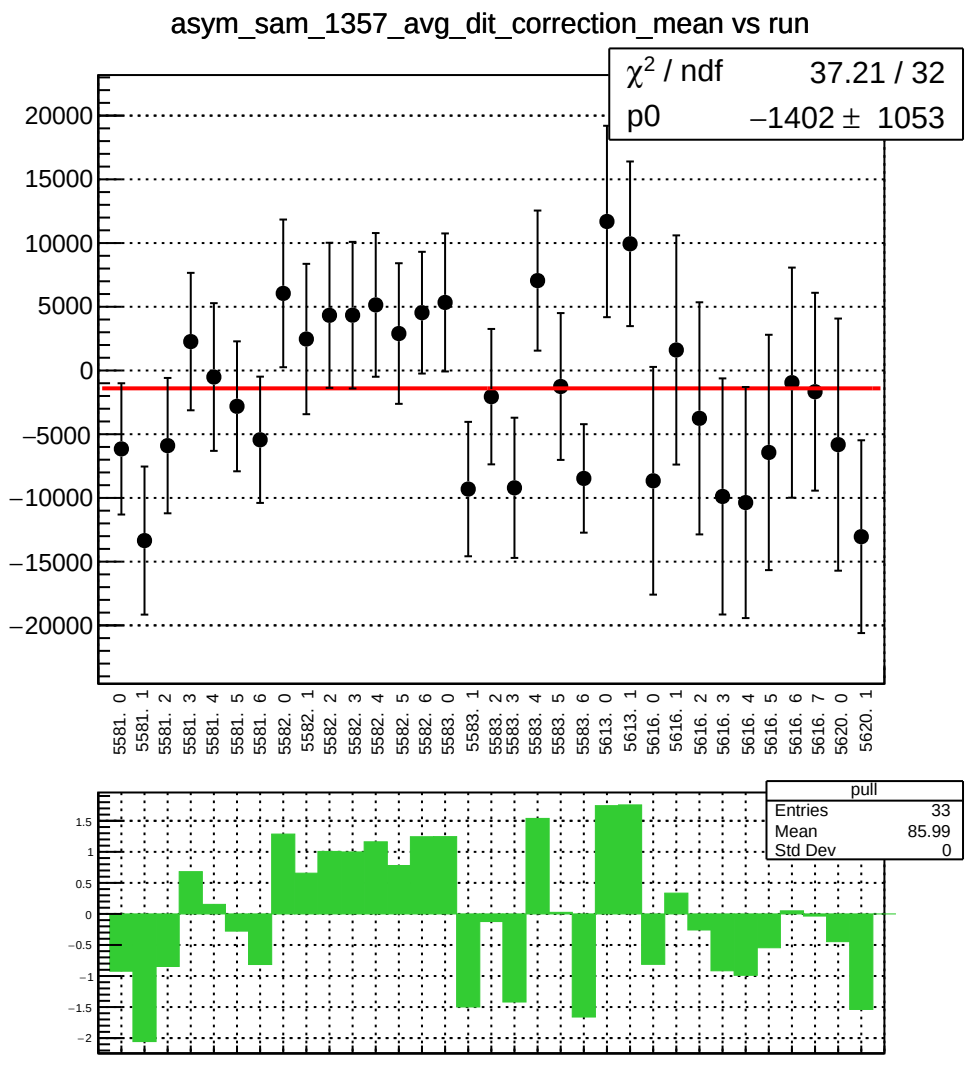

pull1D
Entries 26
Mean 0.001322
Std Dev 1.144
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

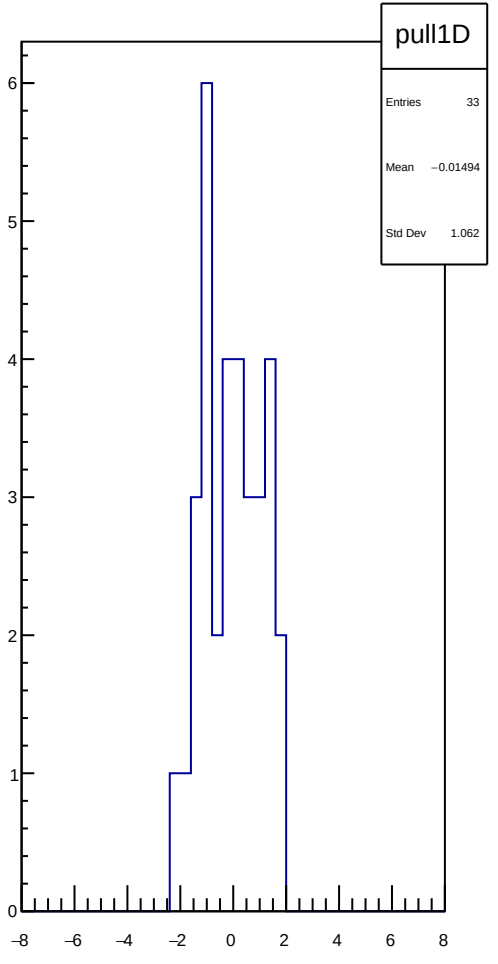

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 5638 / 25
p0 570.7 ± 0.7971
850
800
750
700
650
600
550
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

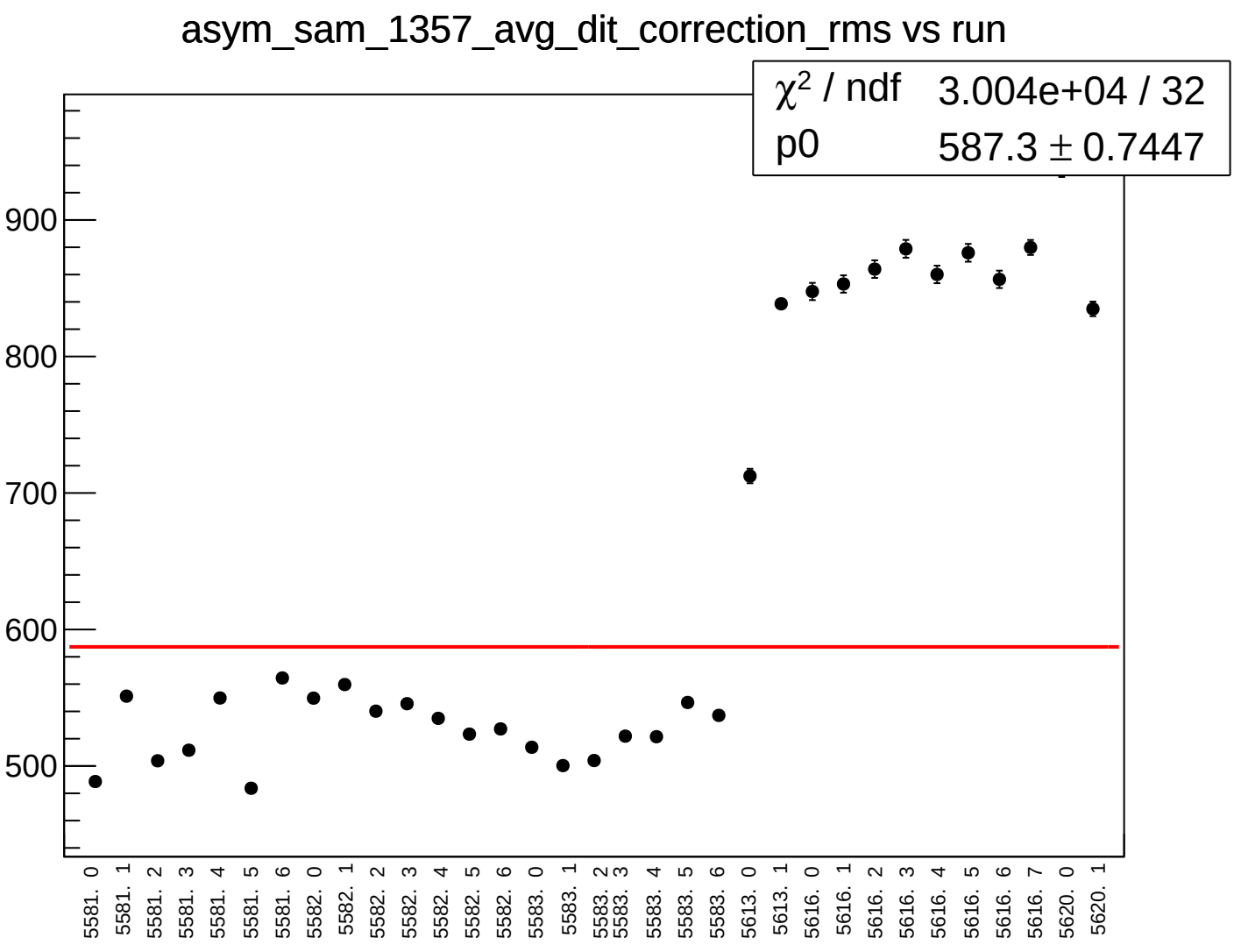

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 36.83 / 32
p0 −303.3 ± 136.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.63
Std Dev 0
2
1
0
−1
−2

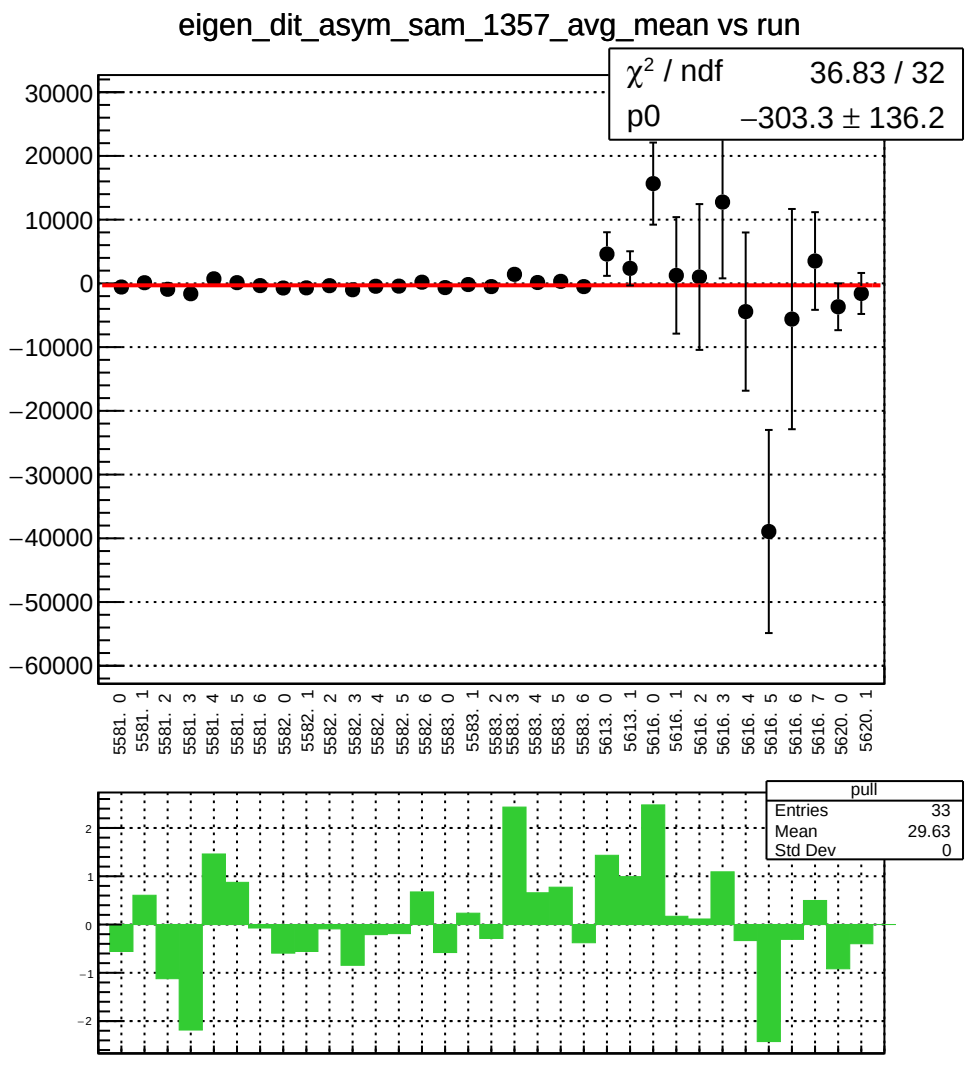

pull1D
Entries 33
Mean 0.07424
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

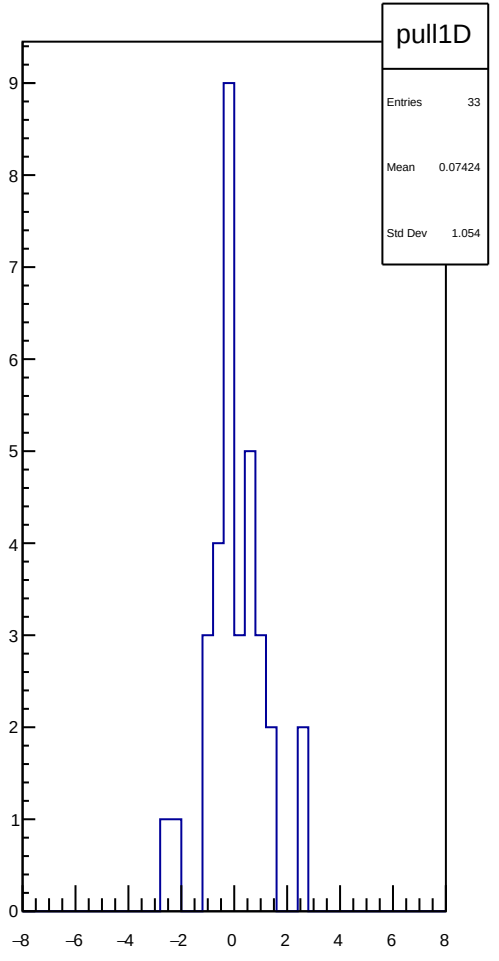

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.07e+05 / 32
p0 64.22 ± 0.09628
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

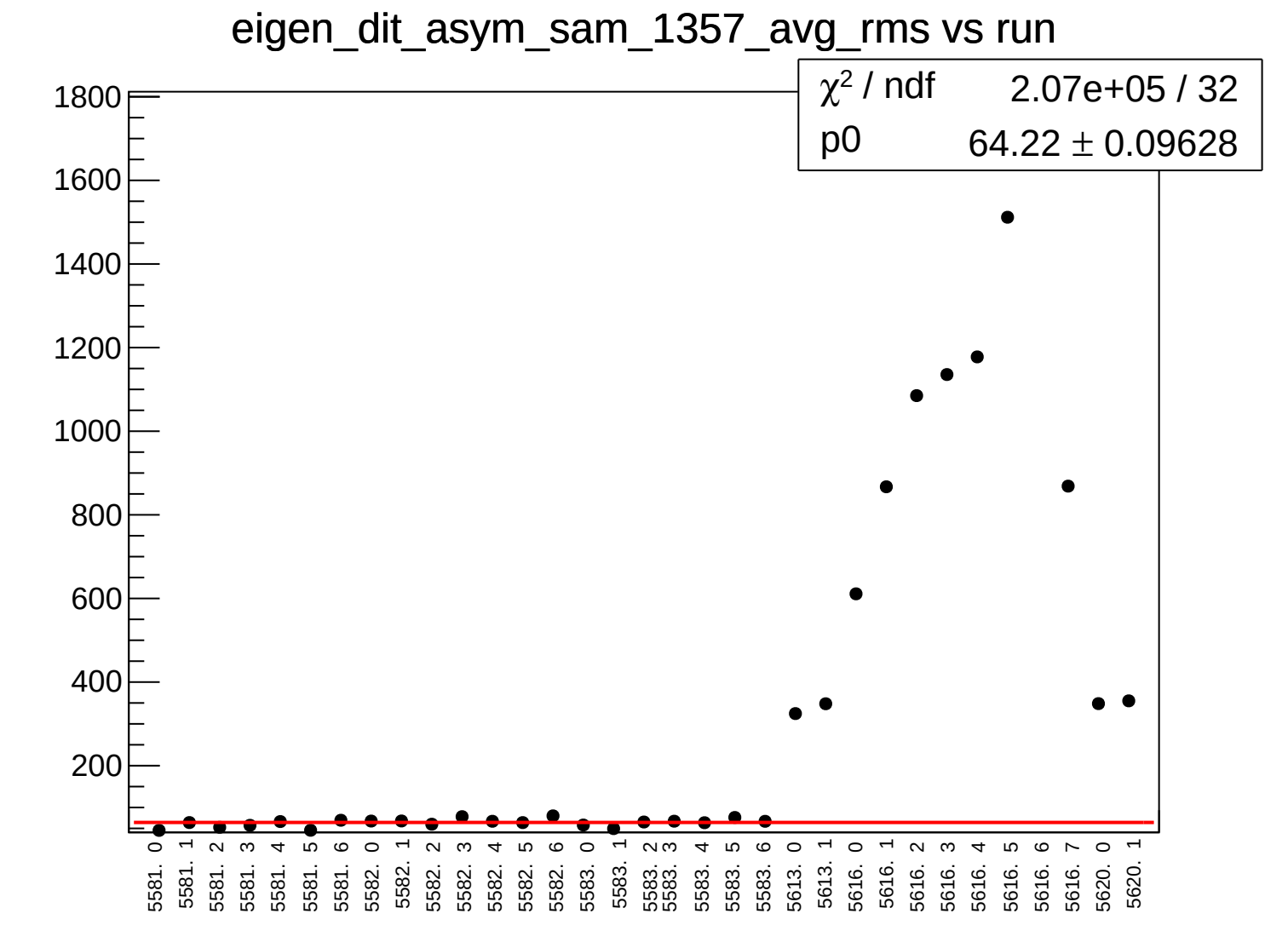

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 37.21 / 32
p0 −1402 ± 1053
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 85.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

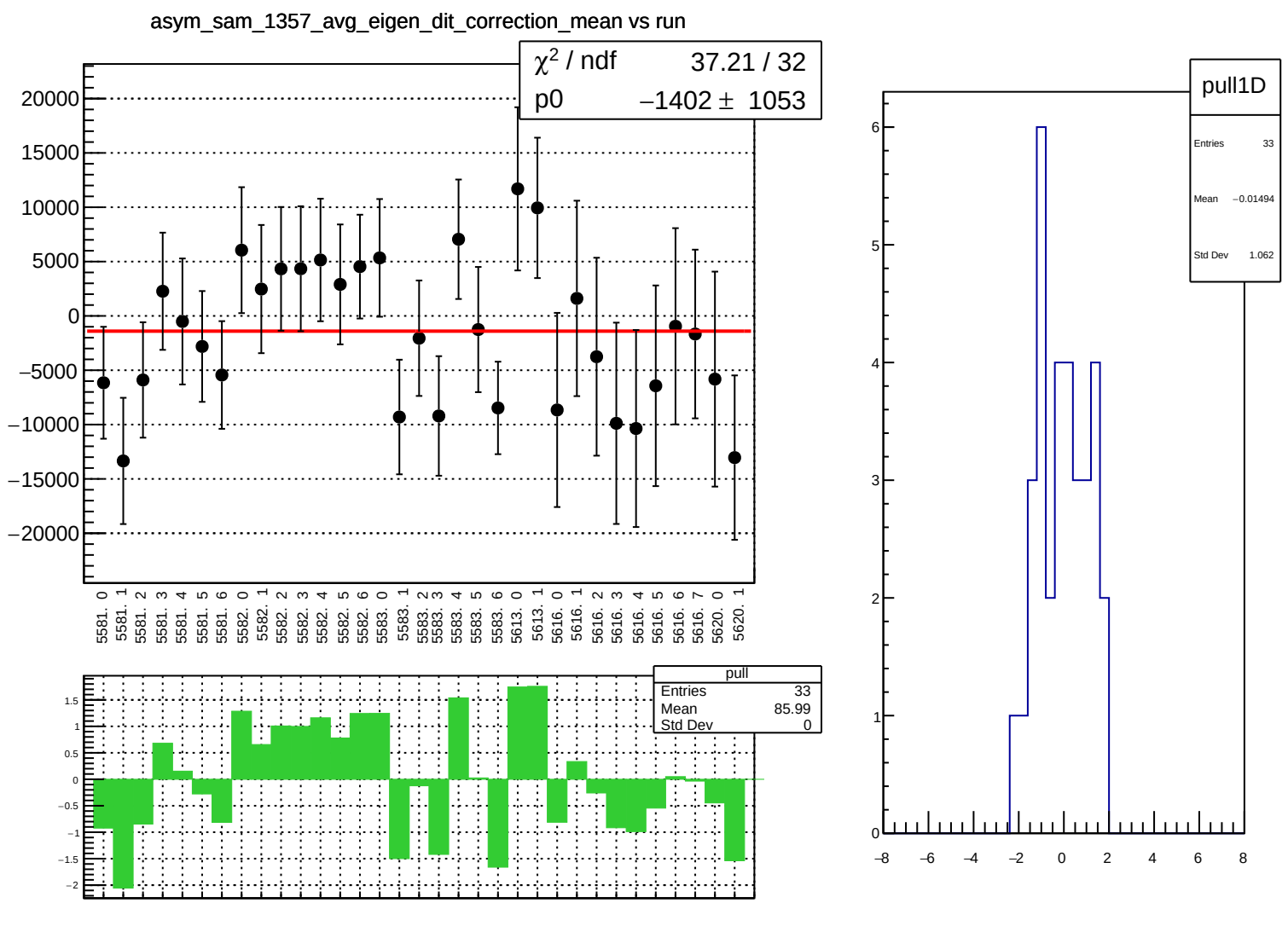

pull1D
Entries 33
Mean −0.01494
Std Dev 1.062
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

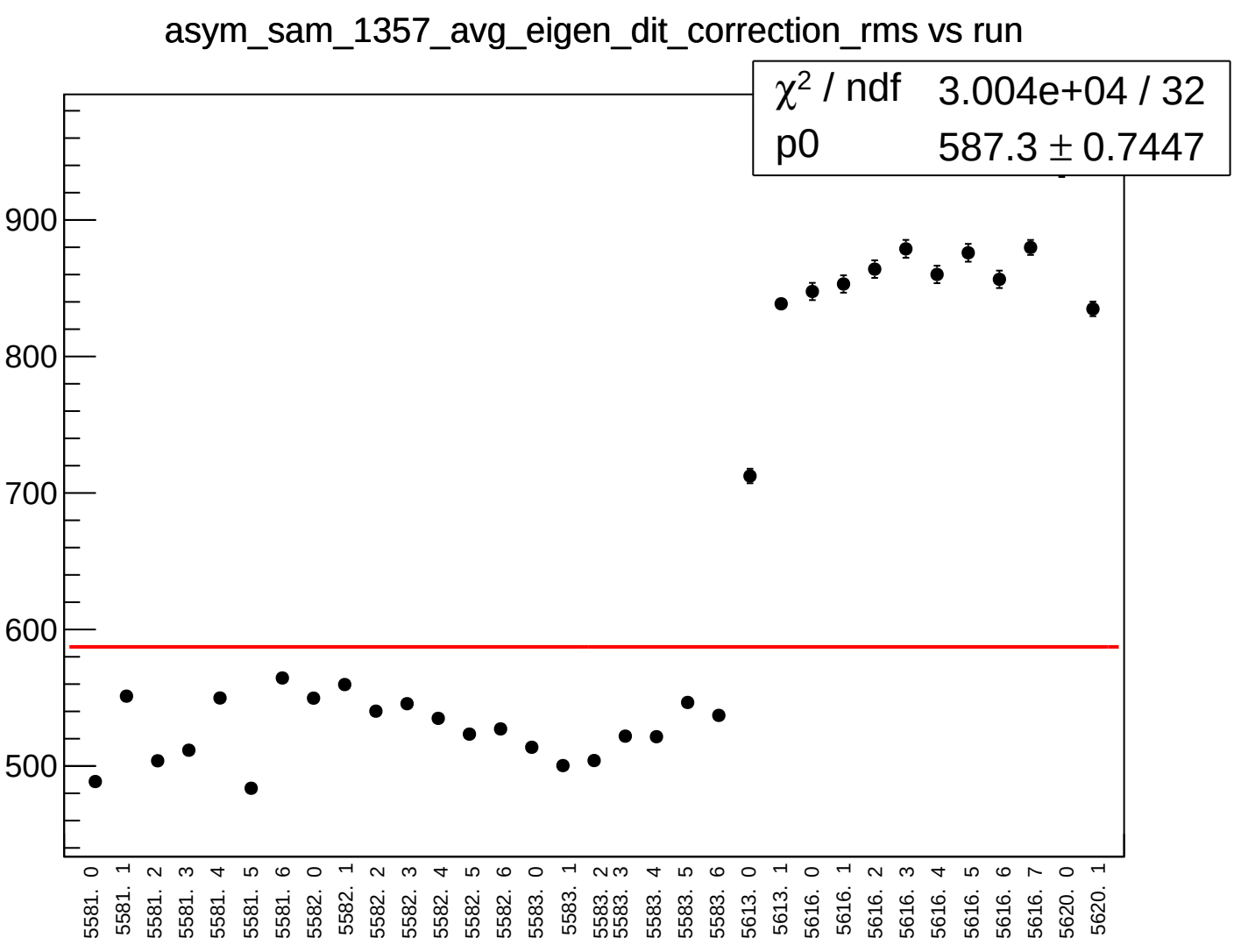

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 3.004e+04 / 32
p0 587.3 ± 0.7447
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

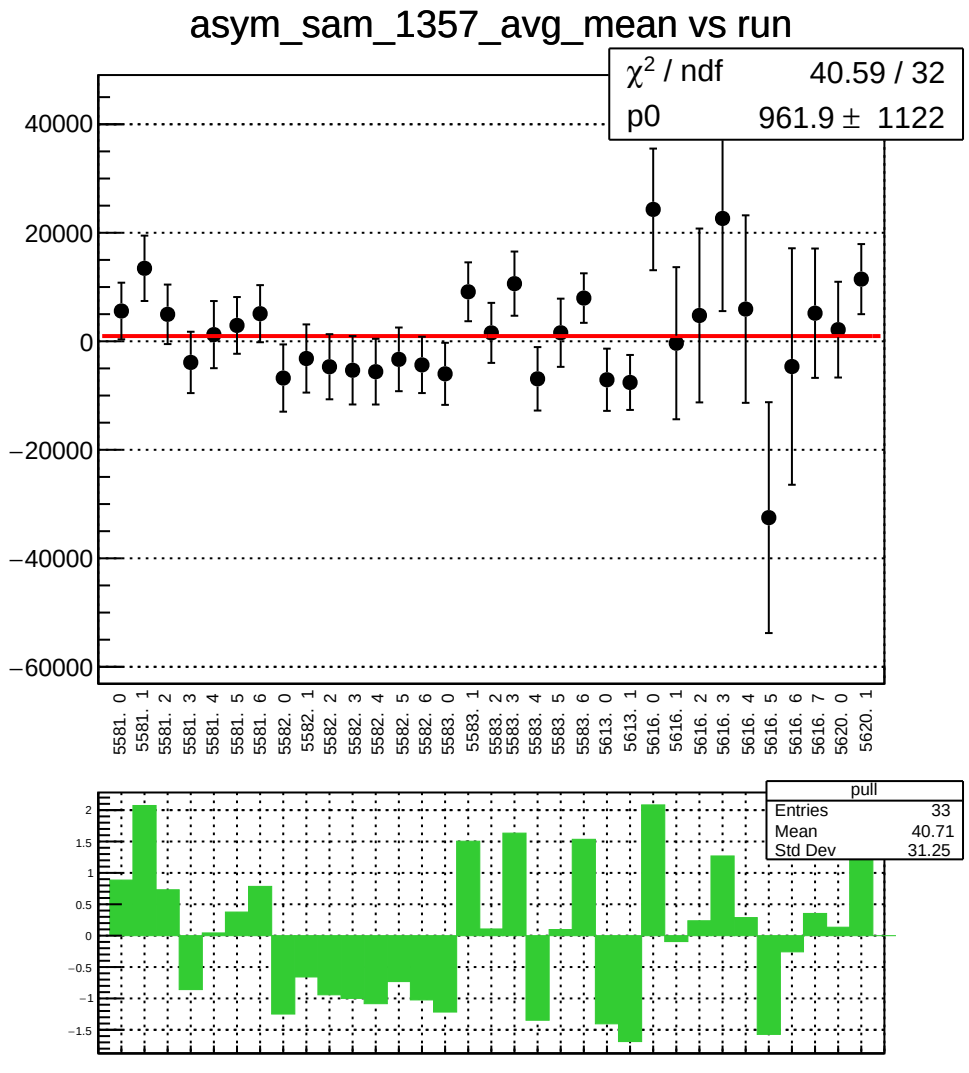

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 36.83 / 32
p0 −303.3 ± 136.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.63
Std Dev 0
2
1
0
−1
−2

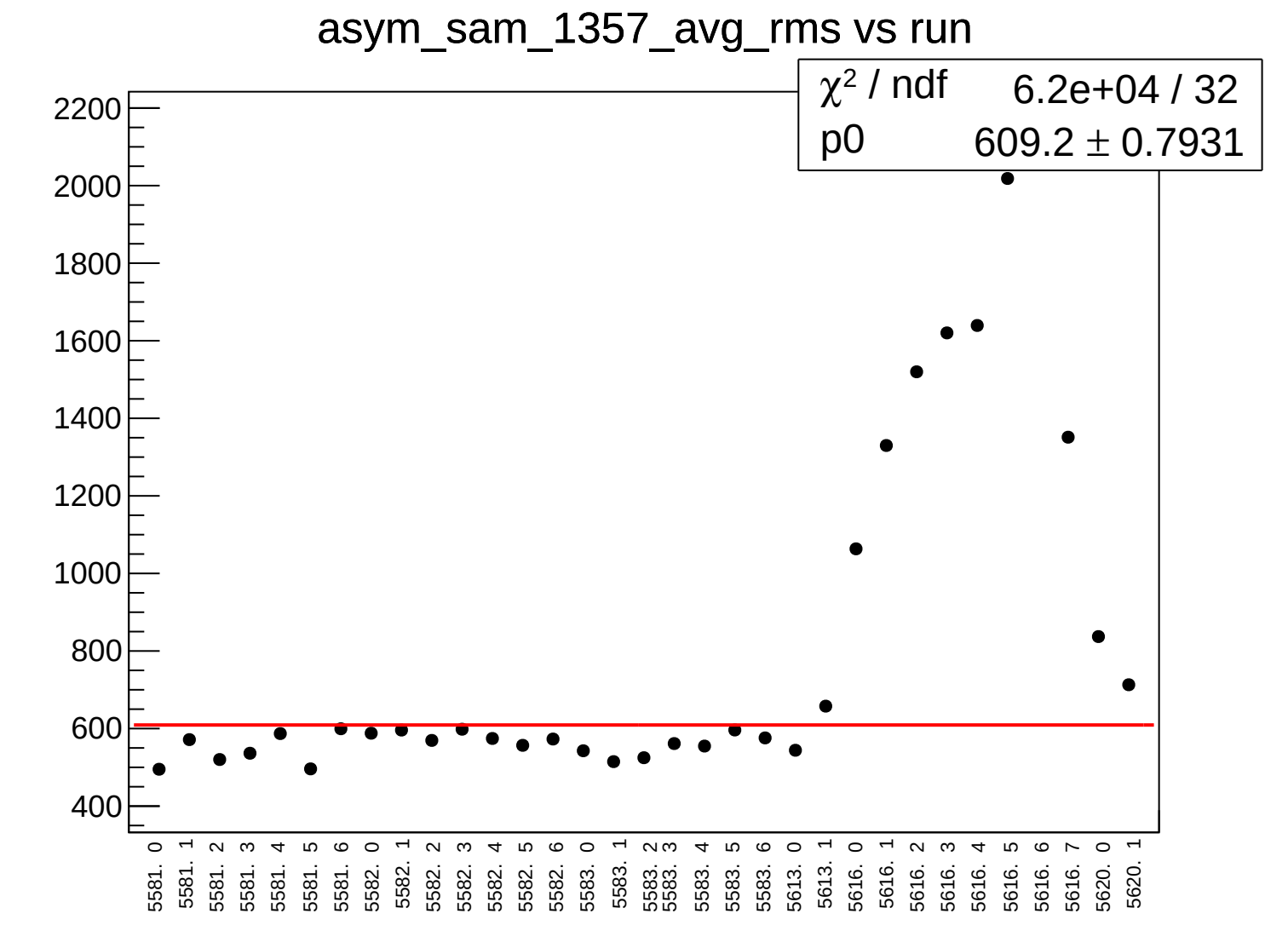

pull1D
Entries 33
Mean 0.07424
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

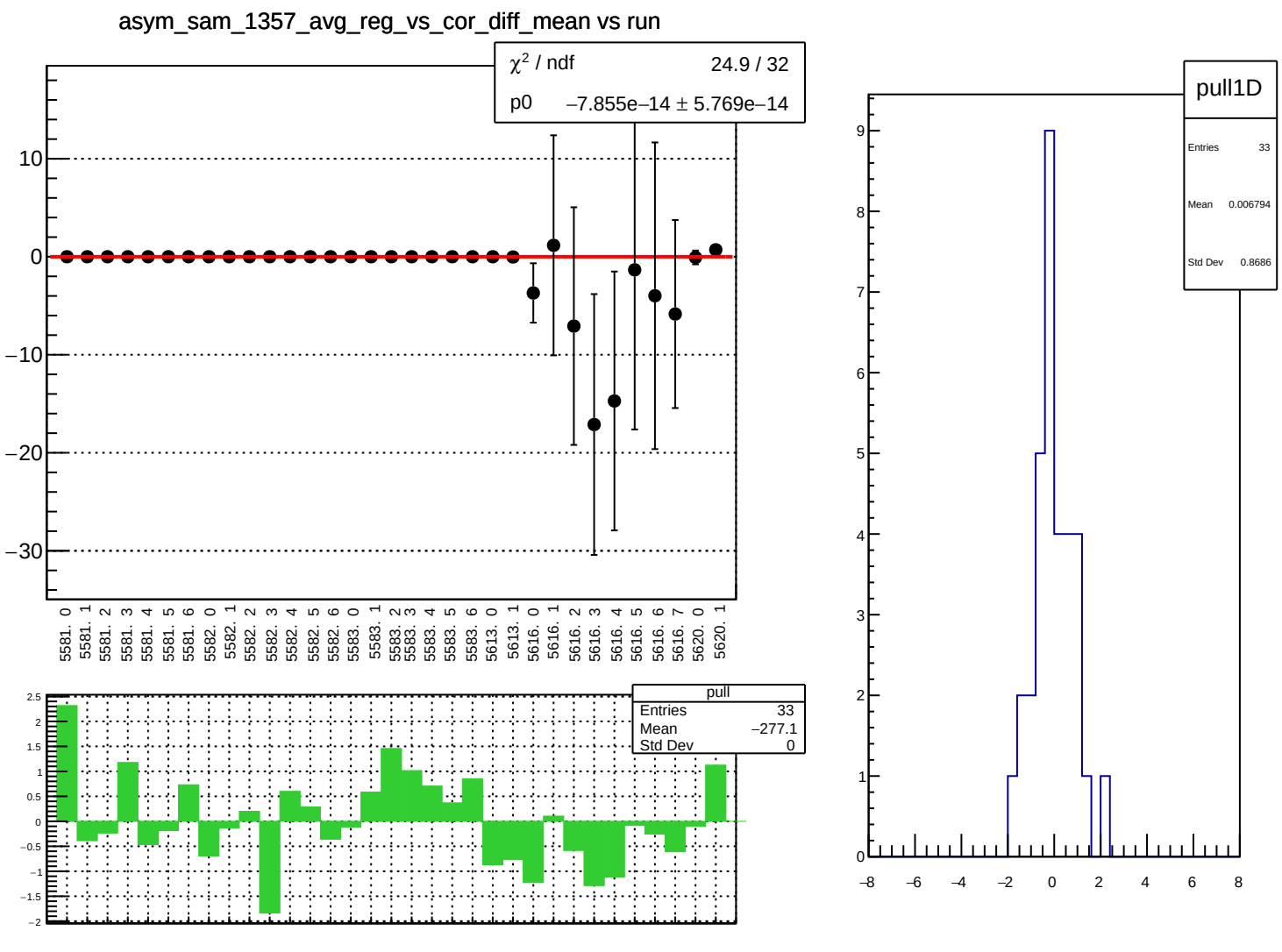

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.07e+05 / 32
p0 64.22 ± 0.09628
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

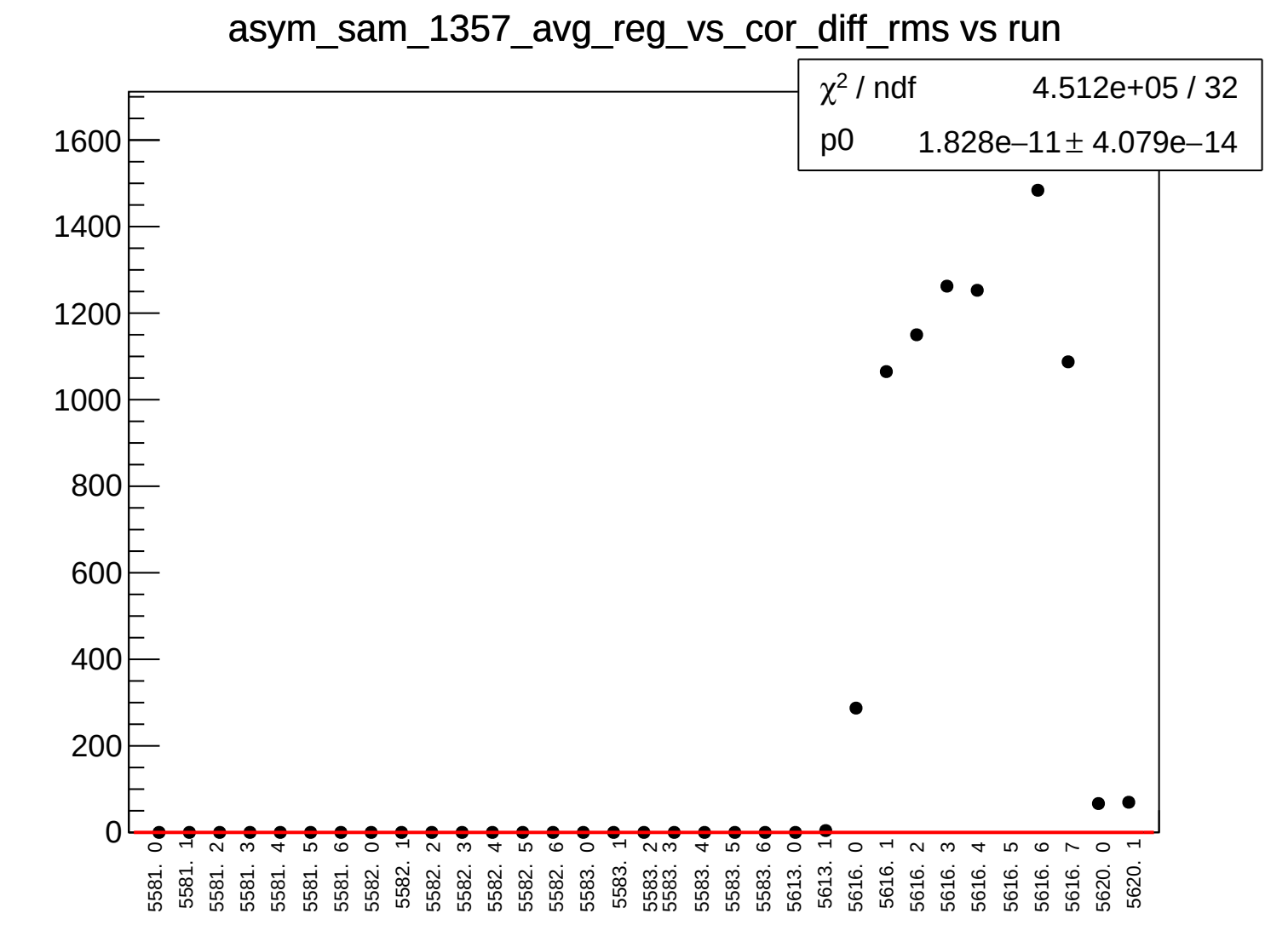

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 37.21 / 32
p0 −1402 ± 1053
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 85.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01494
Std Dev 1.062
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

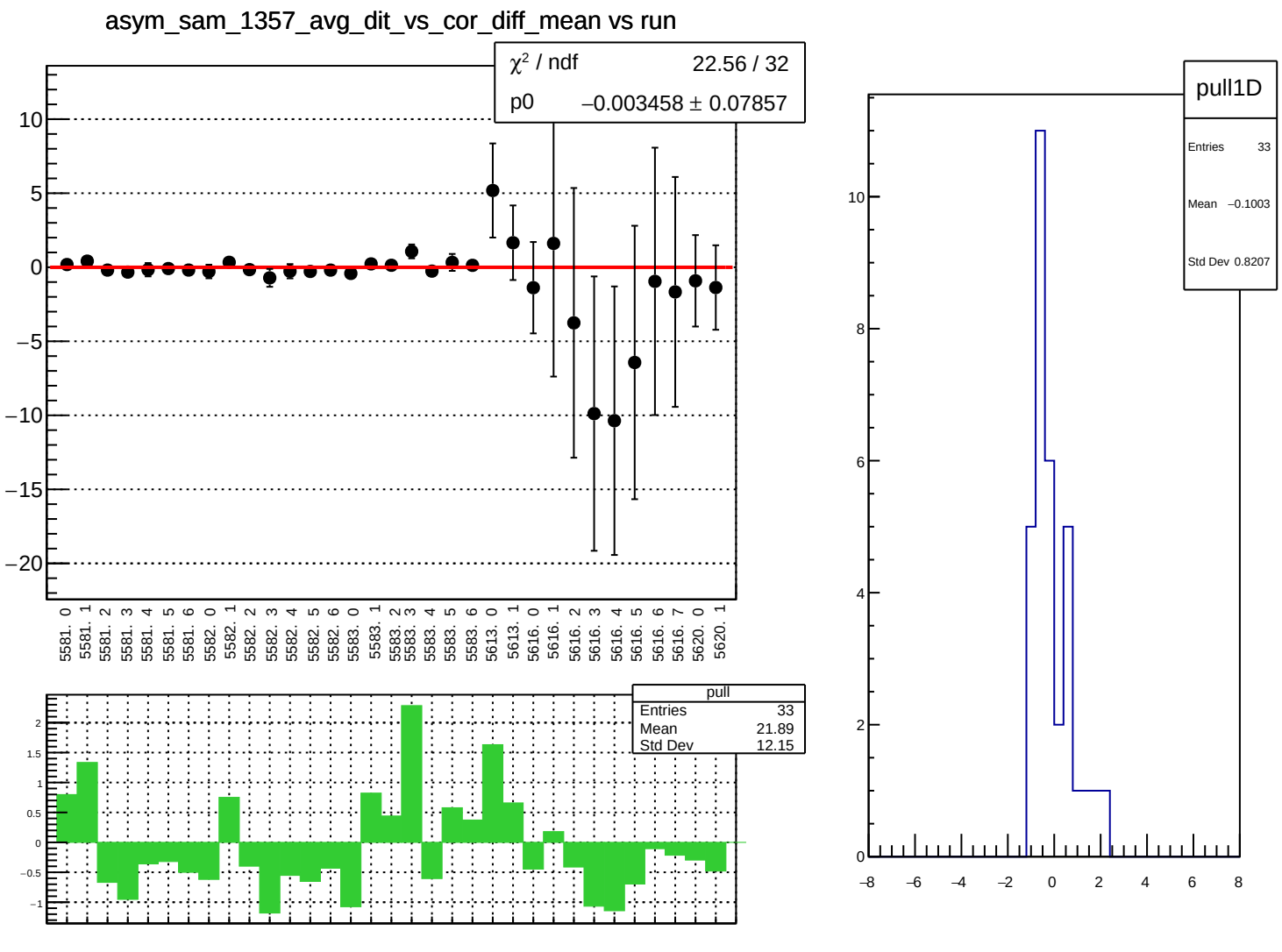

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.004e+04 / 32
p0 587.3 ± 0.7447
900
800
700
600
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

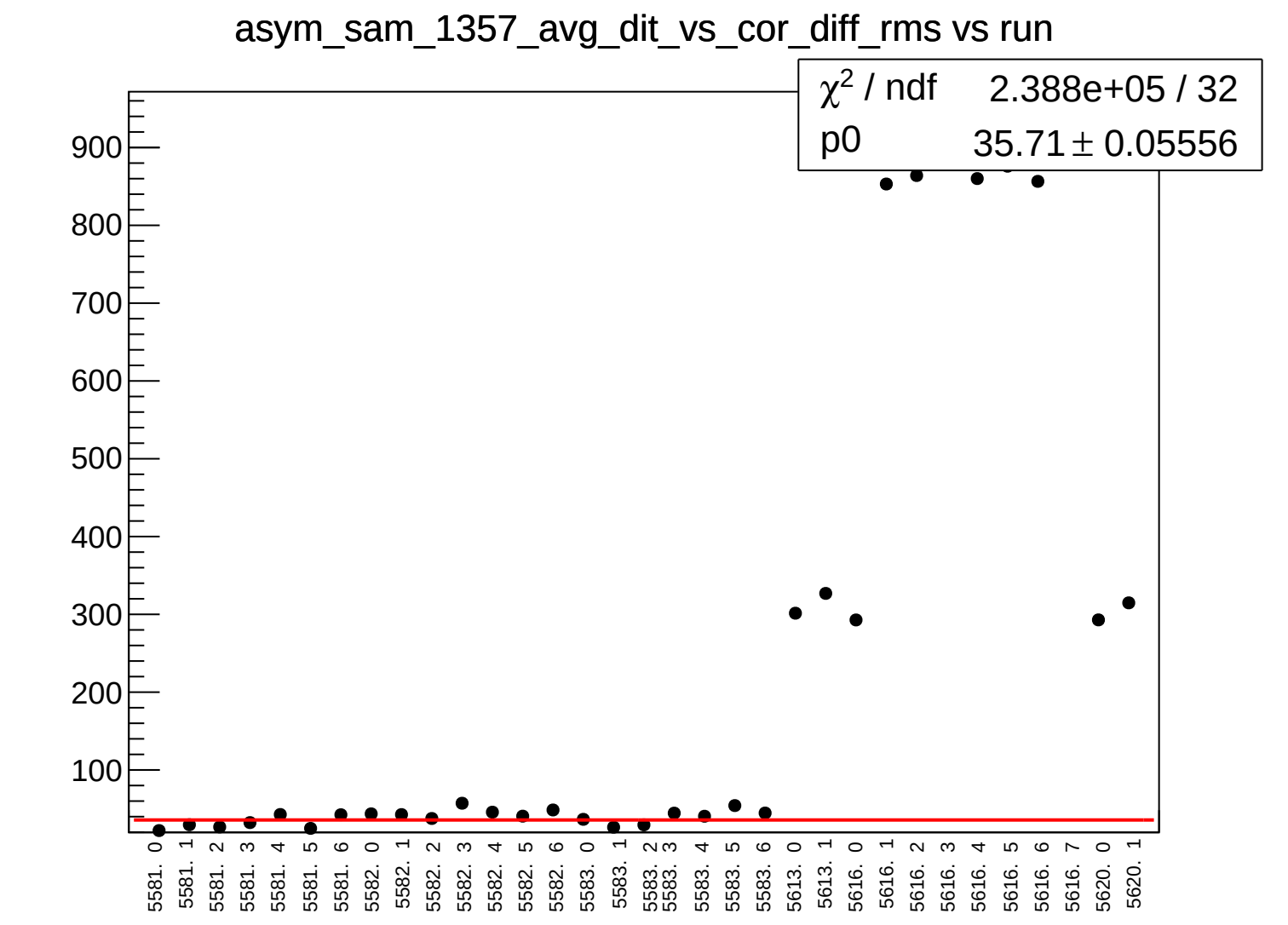

asym_sam_1357_avg_mean vs run
χ² / ndf 40.59 / 32
p0 961.9 ± 1122
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.71
Std Dev 31.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.01926
Std Dev 1.109
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

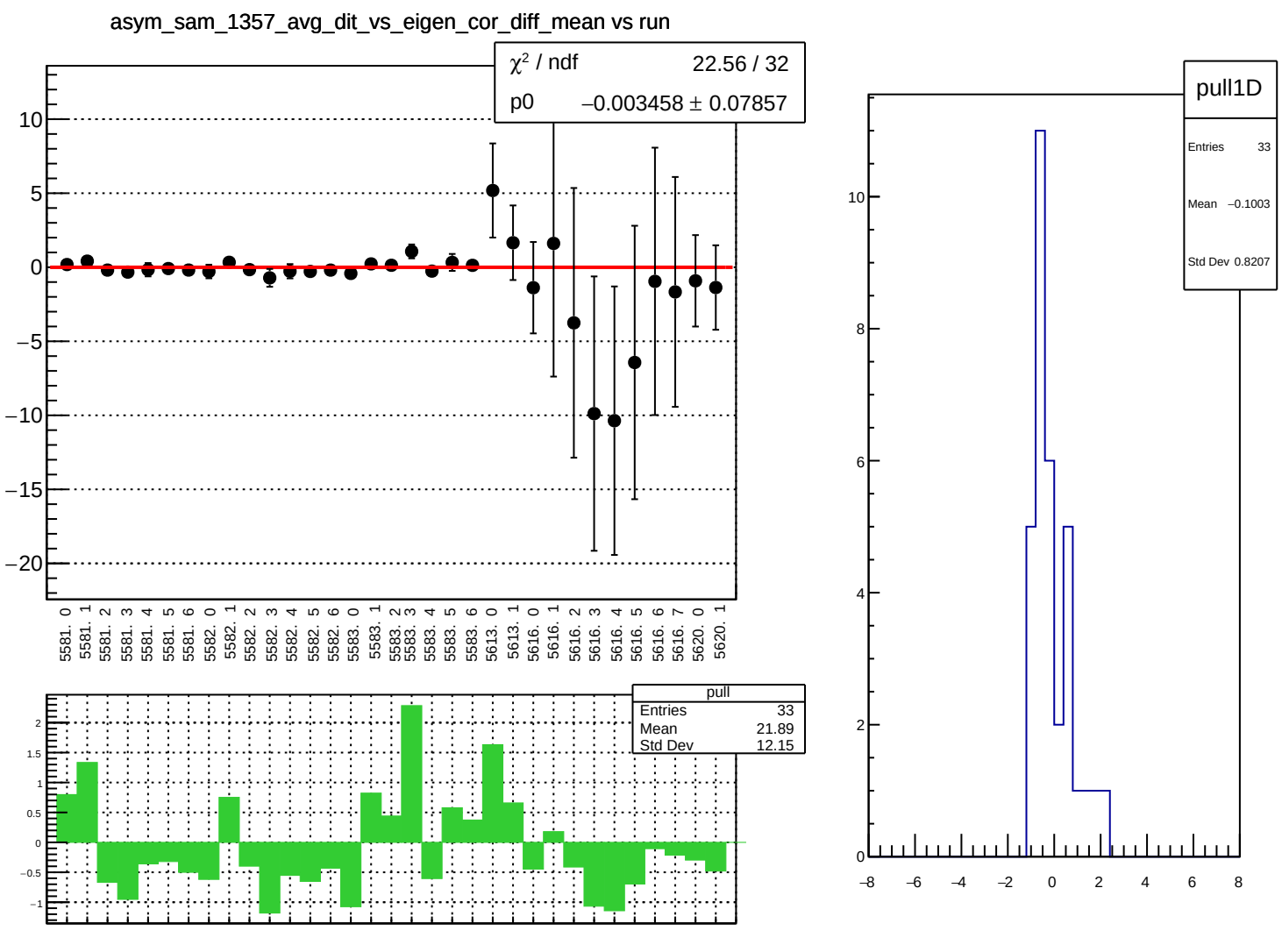

asym_sam_1357_avg_rms vs run
χ² / ndf 6.2e+04 / 32
p0 609.2 ± 0.7931
2200
2000
1800
1600
1400
1200
1000
800
600
400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

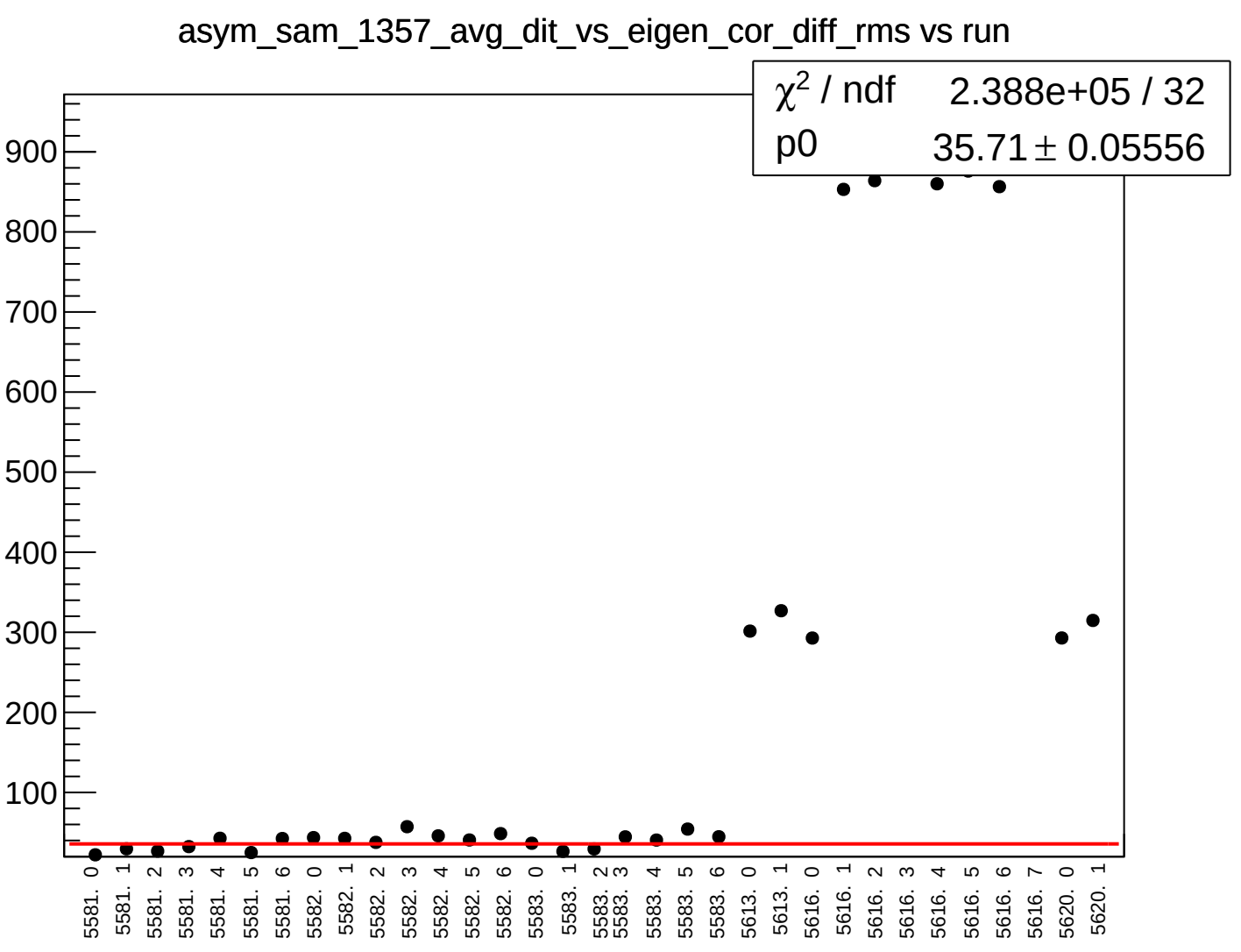

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 24.9 / 32
p0 −7.855e−14 ± 5.769e−14
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −277.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.006794
Std Dev 0.8686
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

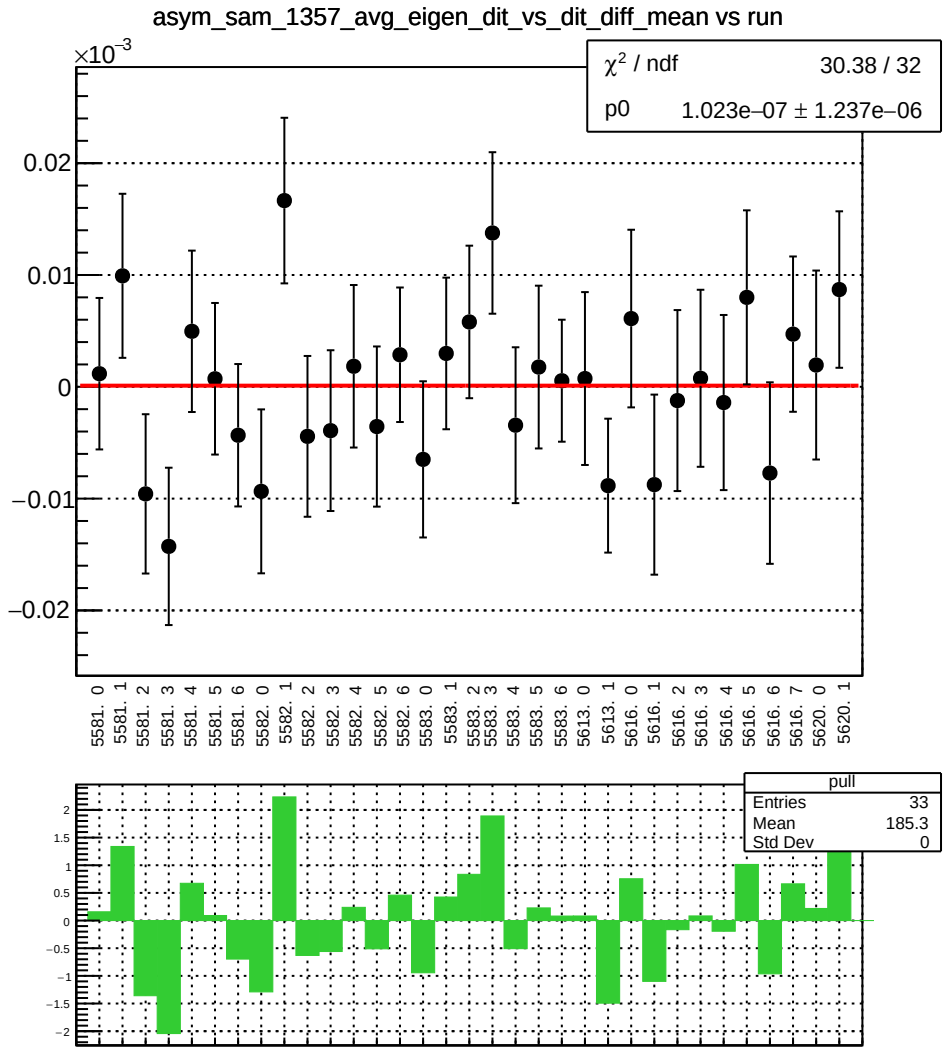

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.512e+05 / 32
p0 1.828e−11 ± 4.079e−14
0
200
400
600
800
1000
1200
1400
1600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

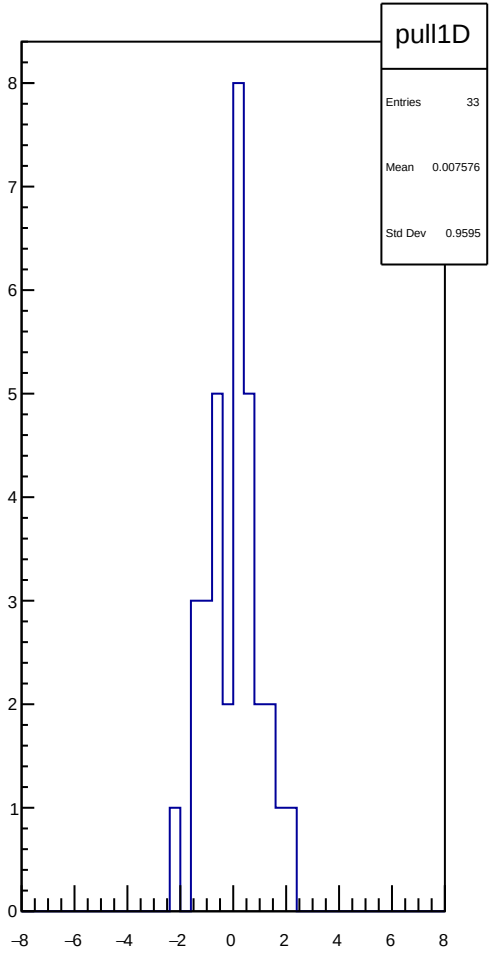

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 22.56 / 32
p0 −0.003458 ± 0.07857
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.89
Std Dev 12.15
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.1003
Std Dev 0.8207
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

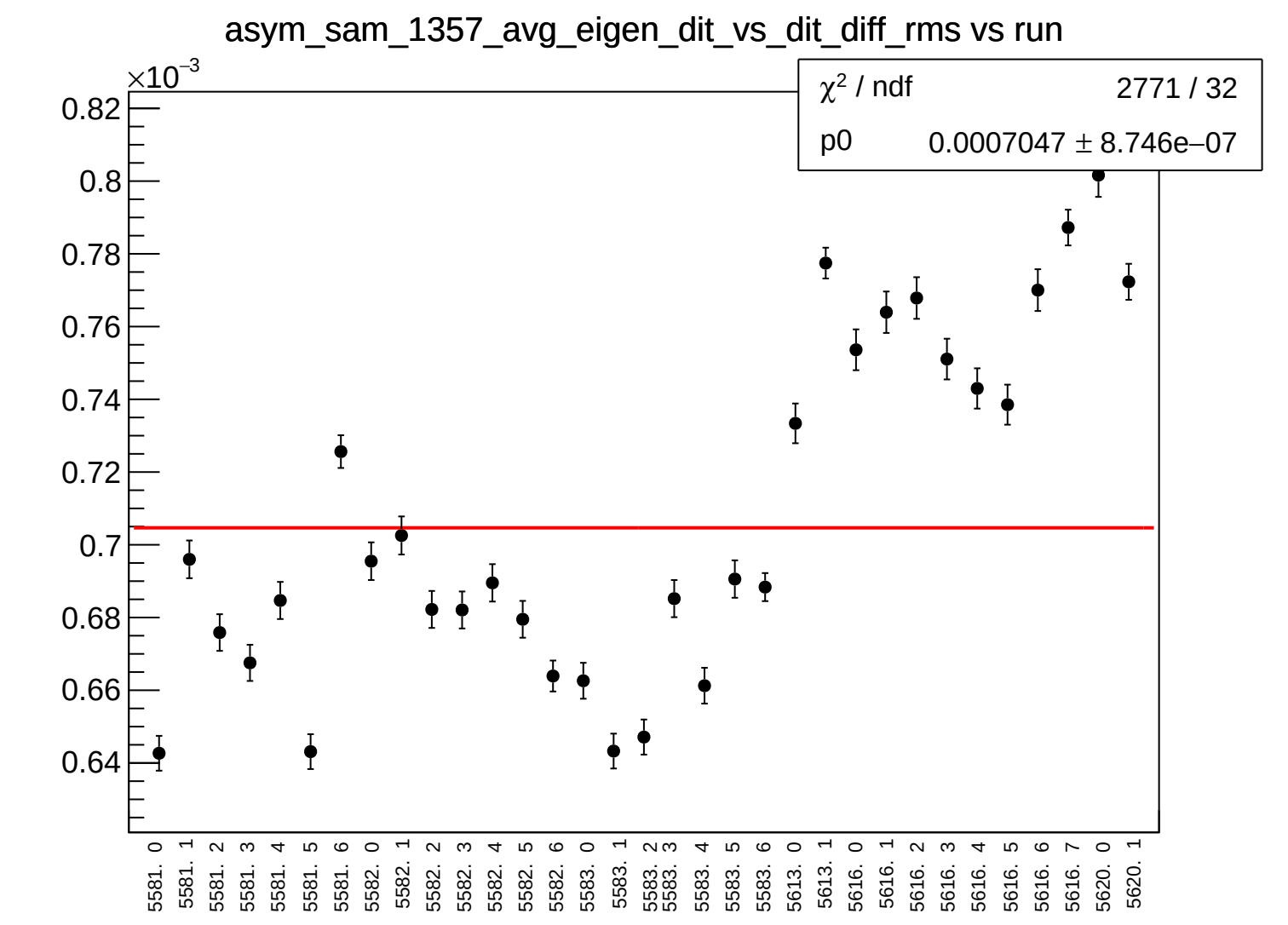

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.388e+05 / 32
p0 35.71 ± 0.05556
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

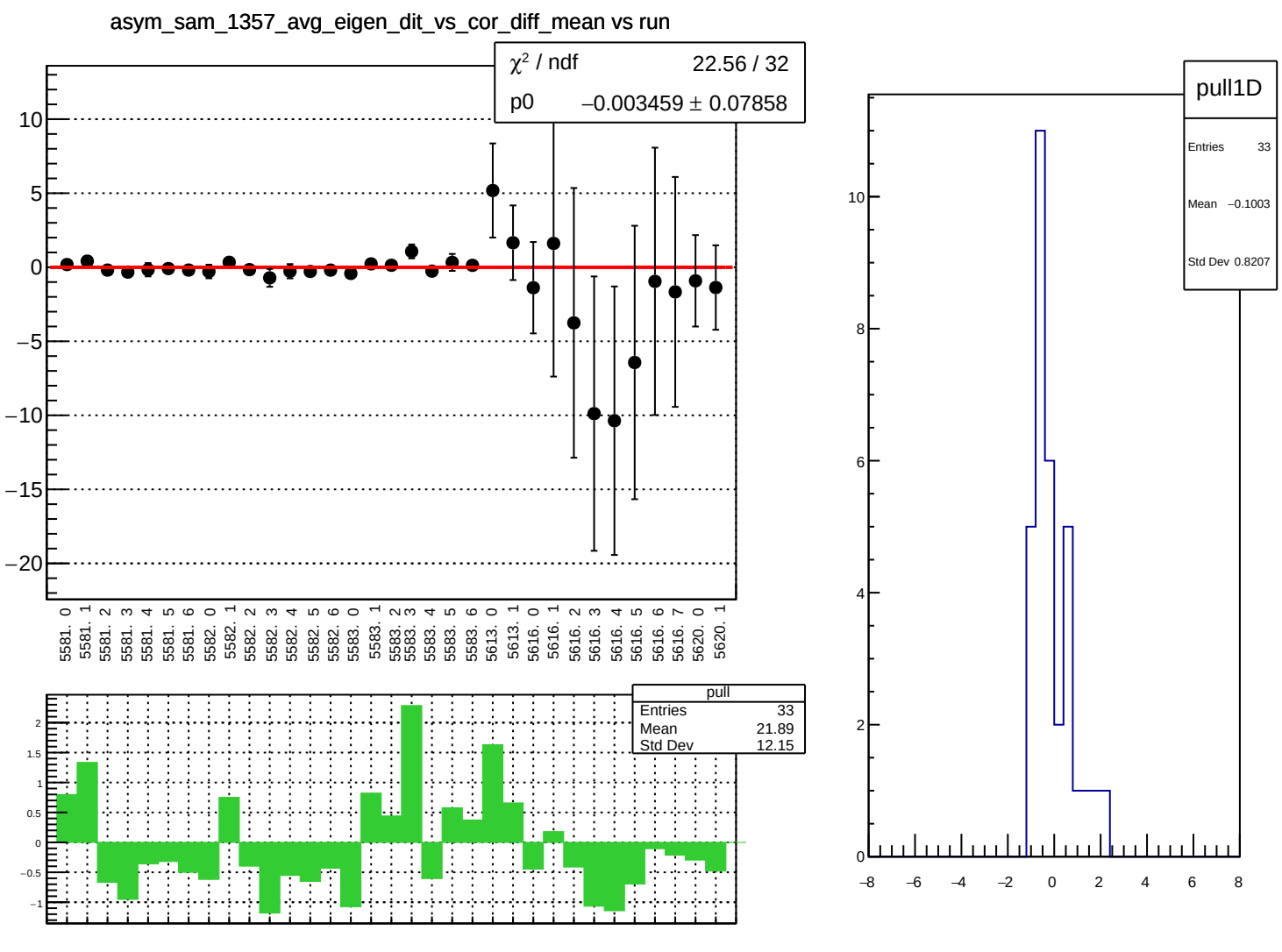

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.56 / 32
p0 −0.003458 ± 0.07857
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.89
Std Dev 12.15
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.1003
Std Dev 0.8207
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

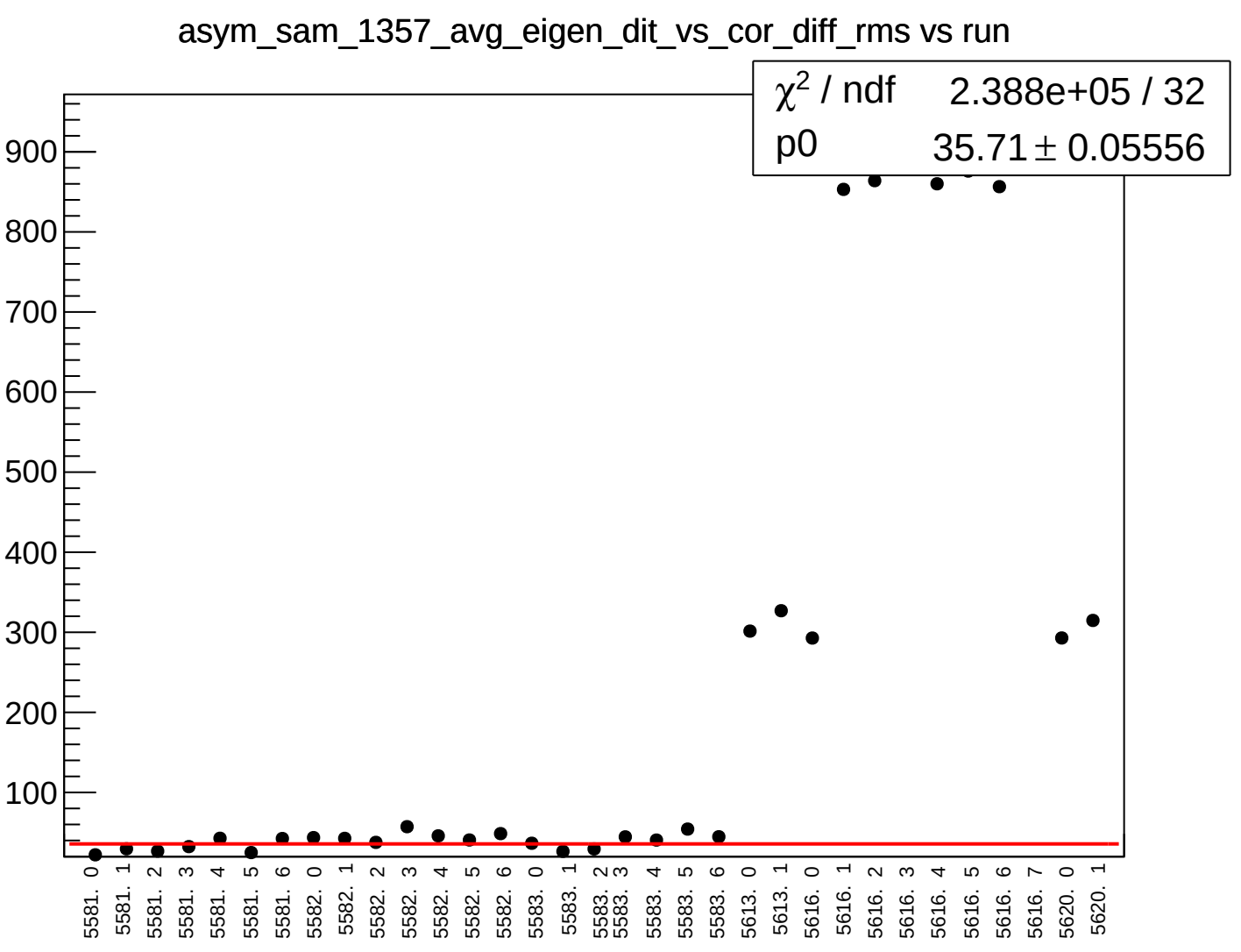

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.388e+05 / 32
p0 35.71 ± 0.05556
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

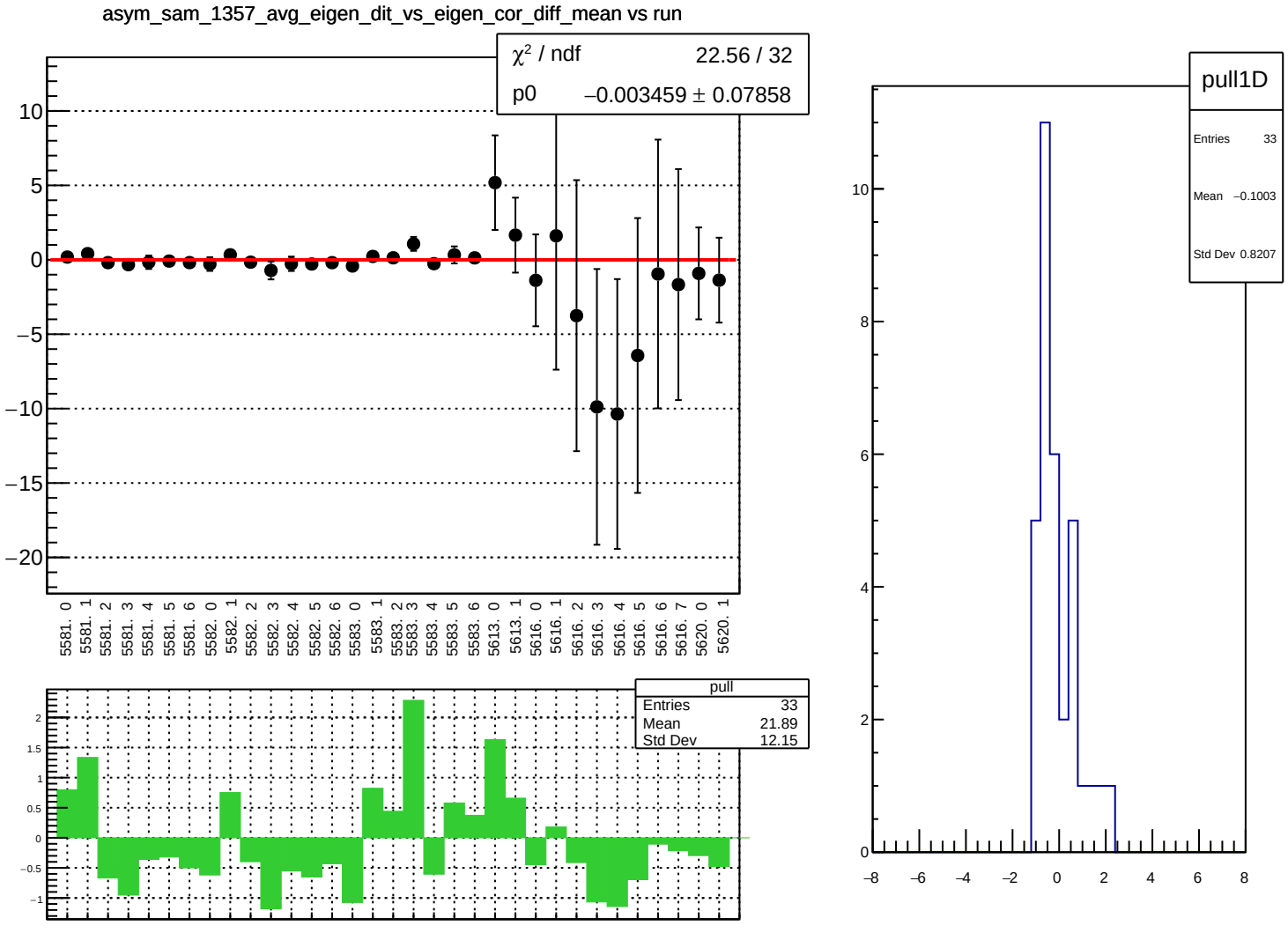

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 30.38 / 32
p0 1.023e−07 ± 1.237e−06
0.02
0.01
0
−0.01
−0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 185.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

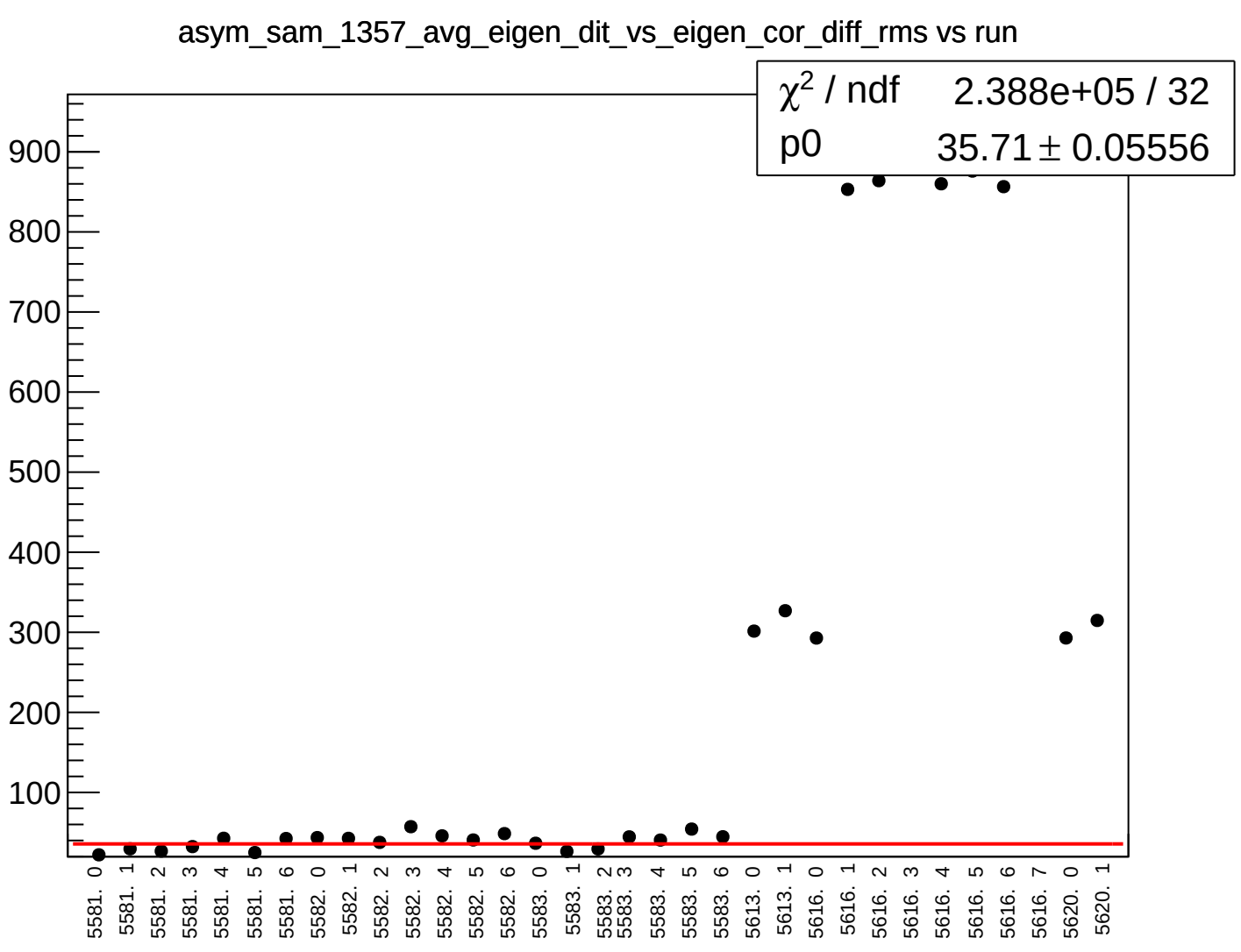

pull1D
Entries 33
Mean 0.007576
Std Dev 0.9595
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

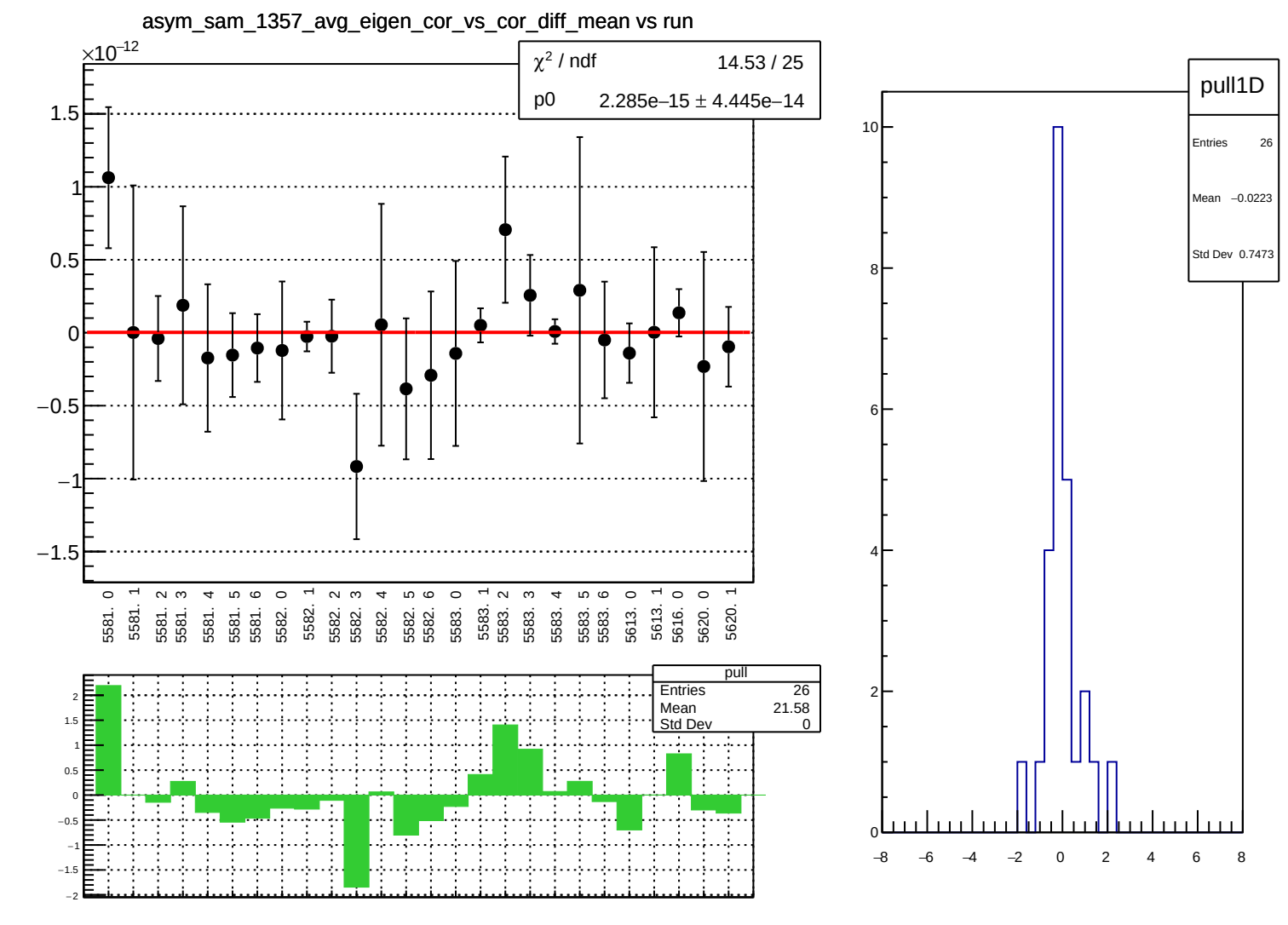

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 2771 / 32
p0 0.0007047 ± 8.746e−07
0.82
0.8
0.78
0.76
0.74
0.72
0.7
0.68
0.66
0.64
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

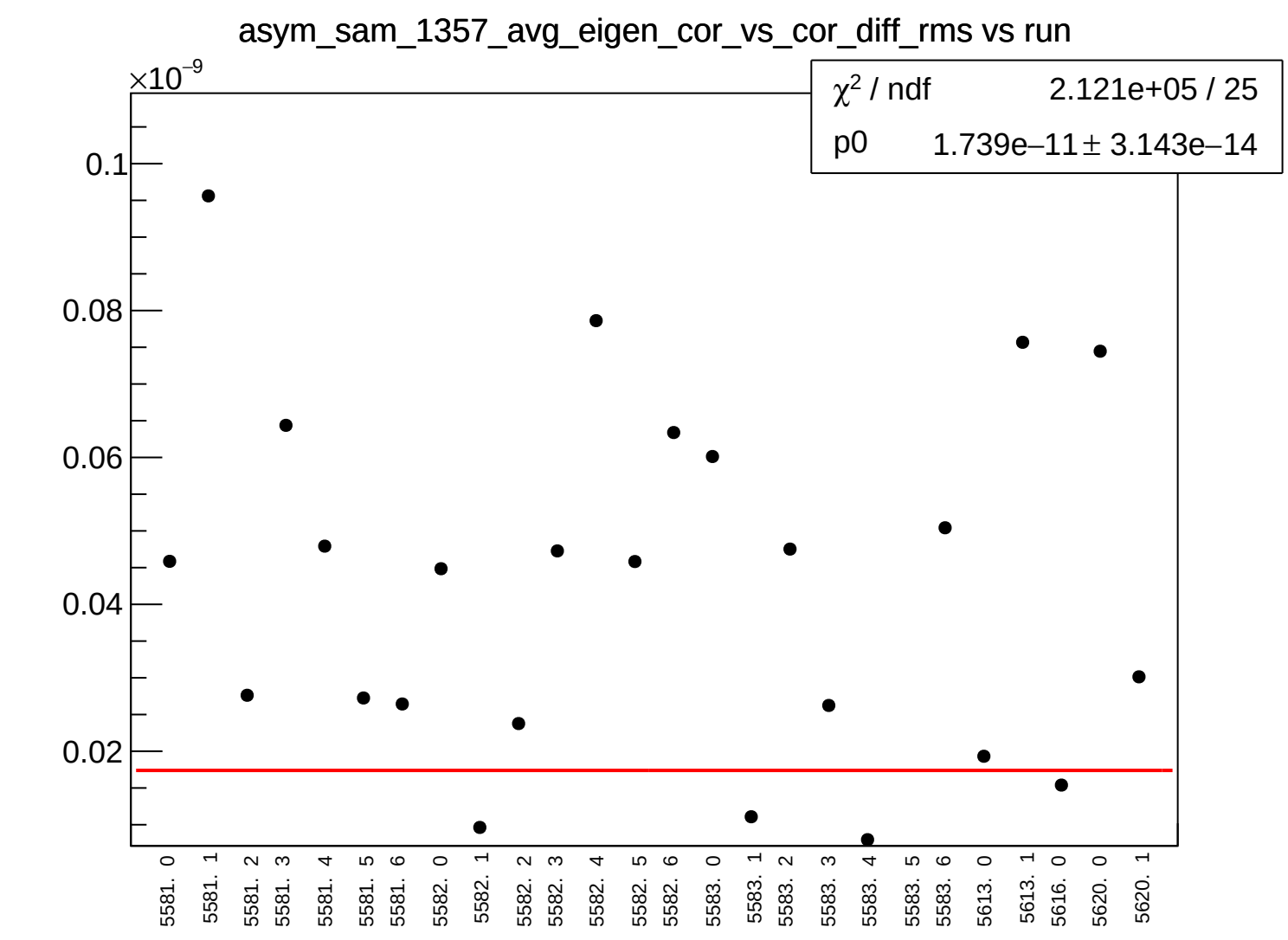

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 22.56 / 32
p0 −0.003459 ± 0.07858
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.89
Std Dev 12.15
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.1003
Std Dev 0.8207
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

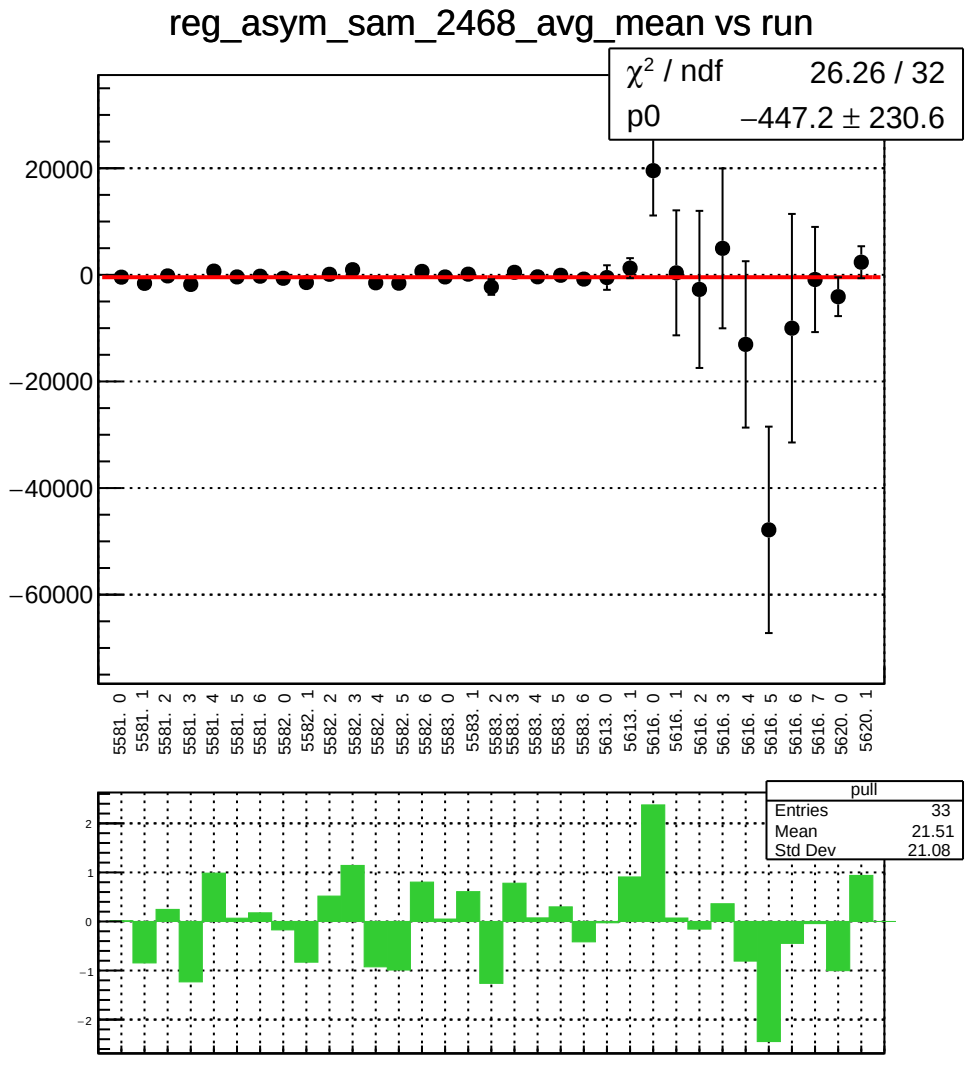

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.388e+05 / 32
p0 35.71 ± 0.05556
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

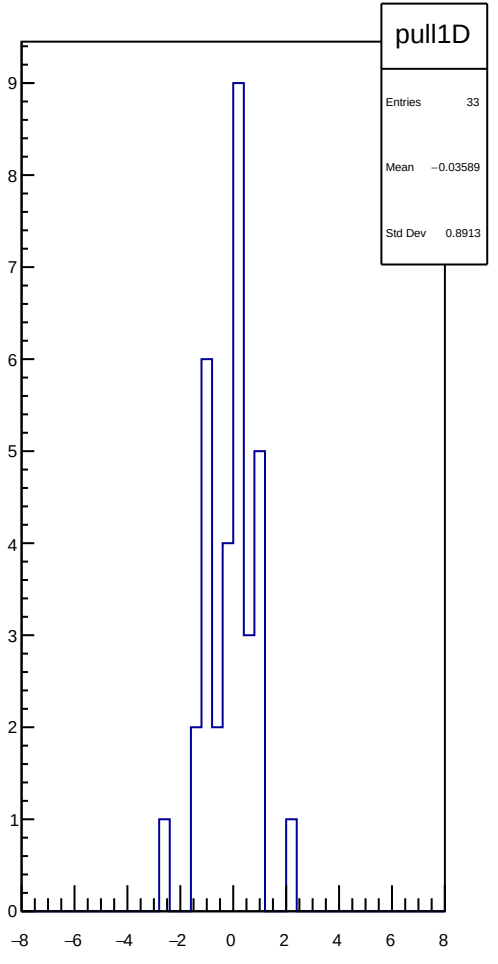

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 22.56 / 32
p0 −0.003459 ± 0.07858
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.89
Std Dev 12.15
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.1003
Std Dev 0.8207
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

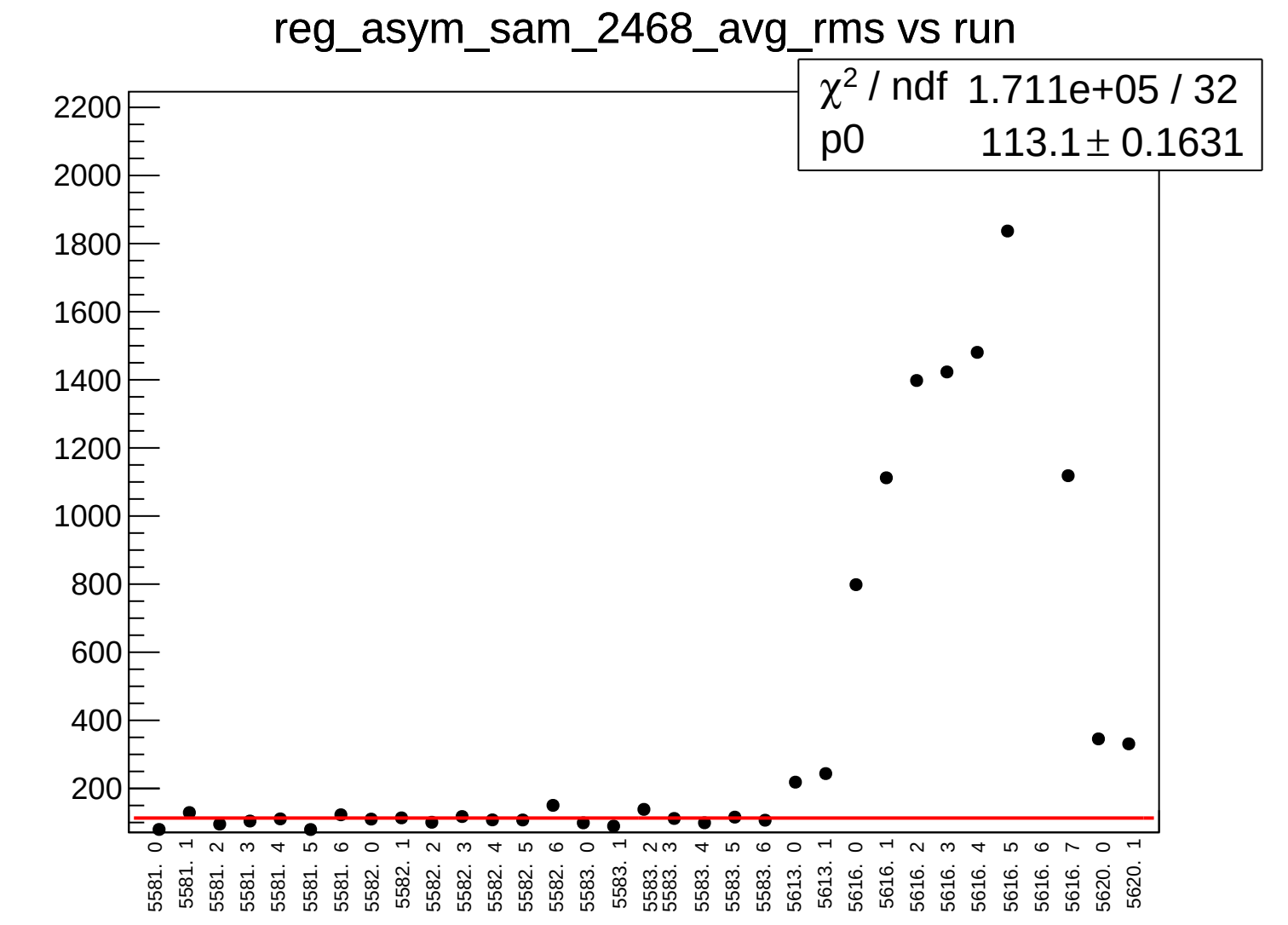

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.388e+05 / 32
p0 35.71 ± 0.05556
900
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

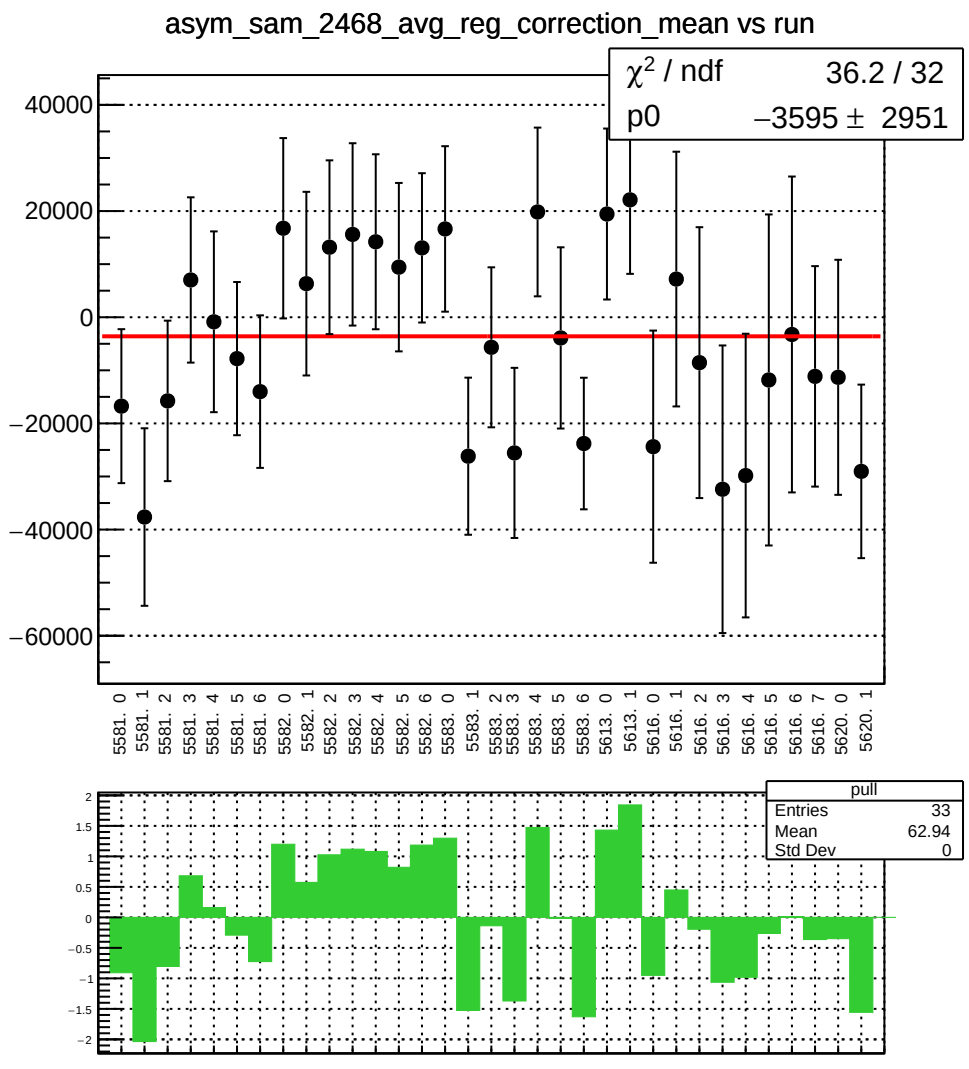

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 14.53 / 25
p0 2.285e−15 ± 4.445e−14
1.5
1
0.5
0
−0.5
−1
−1.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 21.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 26
Mean −0.0223
Std Dev 0.7473
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

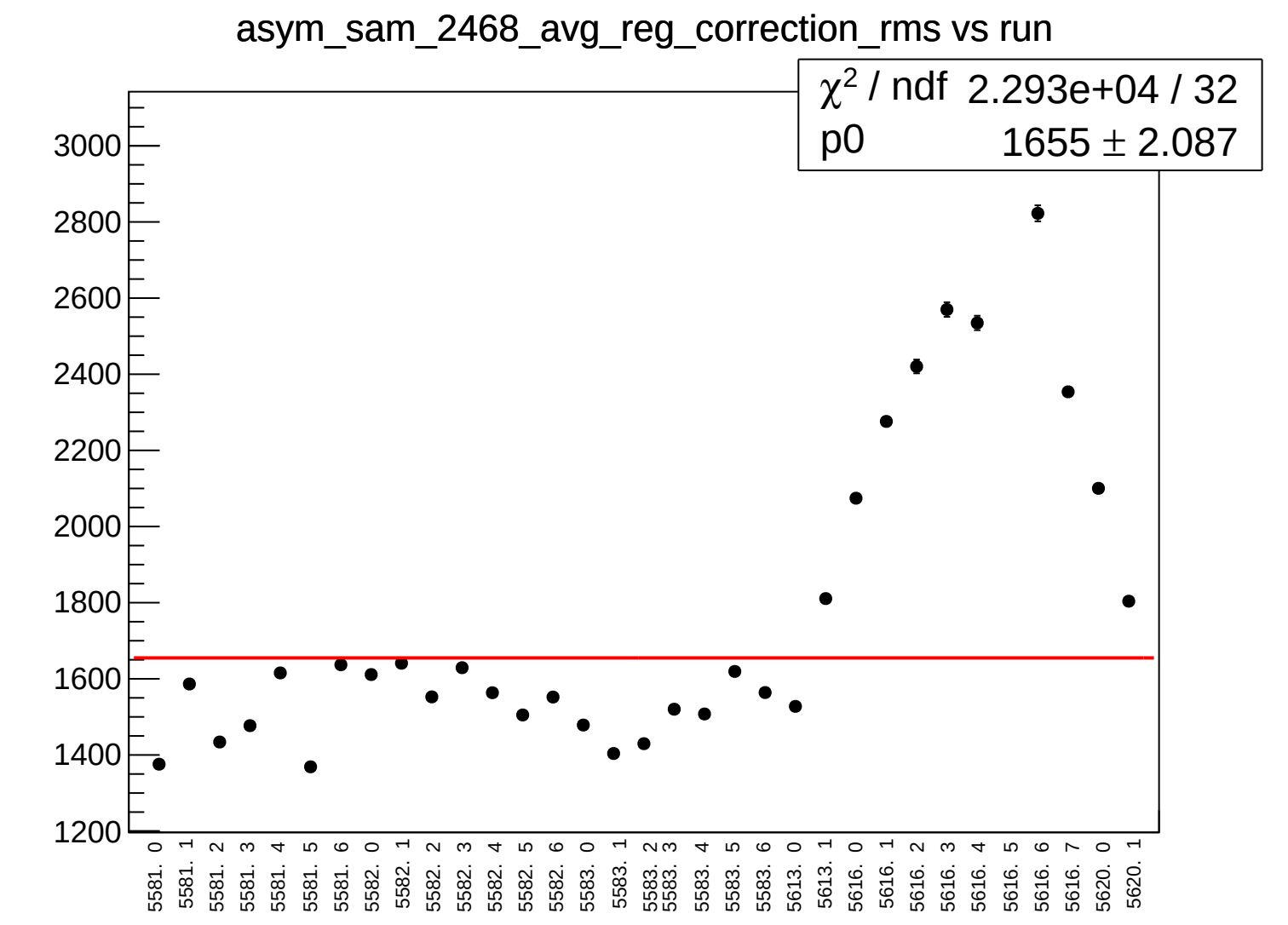

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.121e+05 / 25
p0 1.739e−11 ± 3.143e−14
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

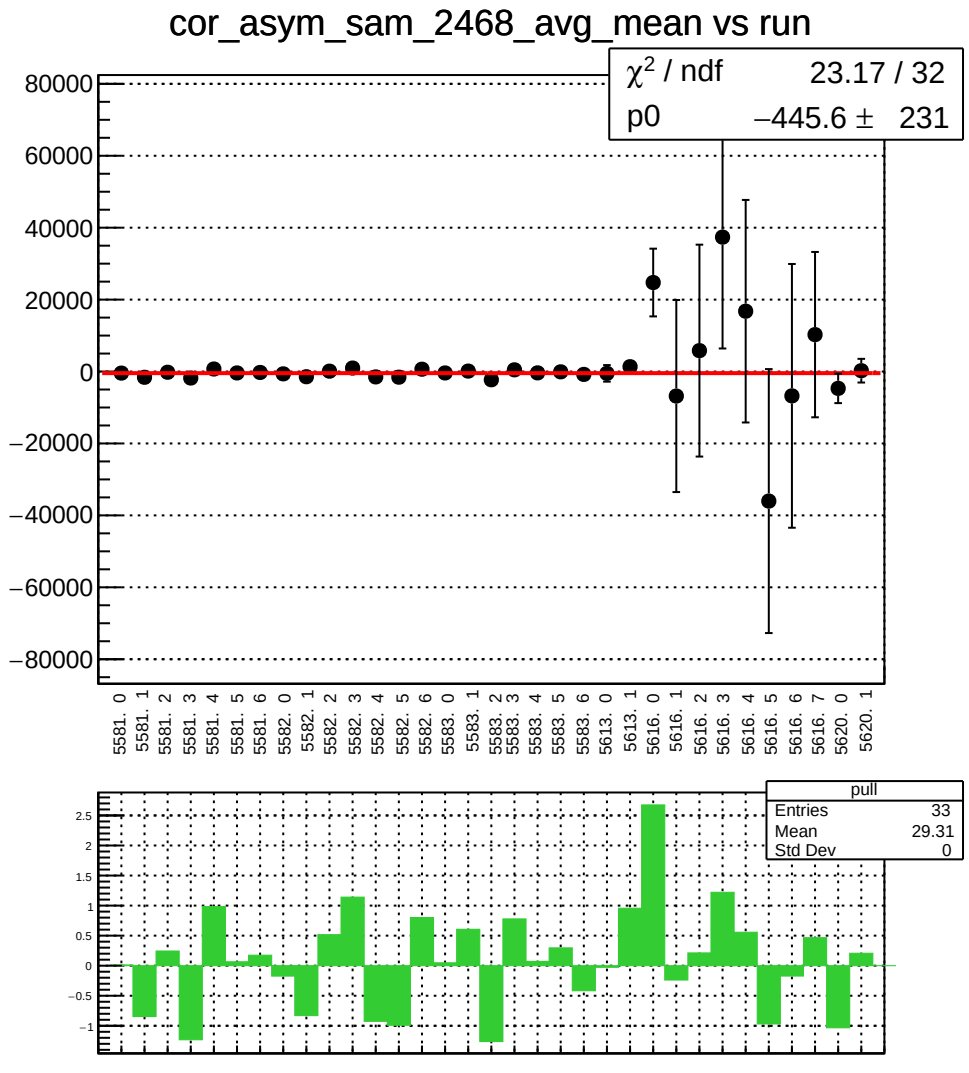

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 26.26 / 32
p0 −447.2 ± 230.6
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.51
Std Dev 21.08
2
1
0
−1
−2

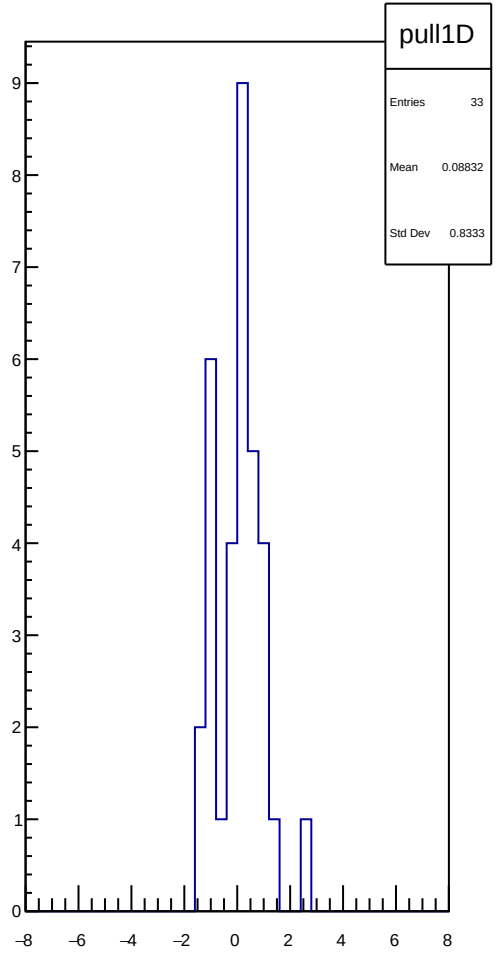

pull1D
Entries 33
Mean −0.03589
Std Dev 0.8913
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

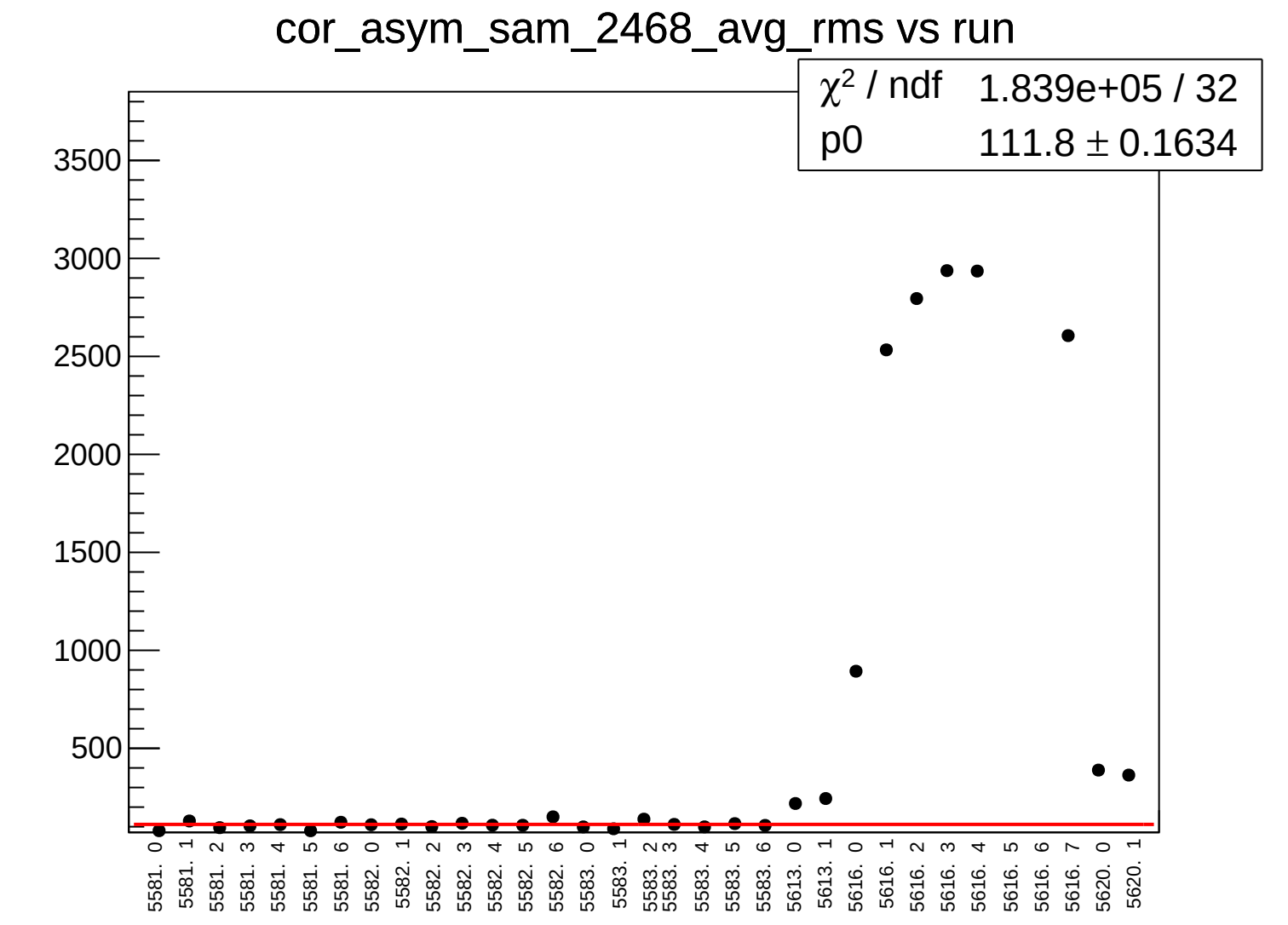

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.711e+05 / 32
p0 113.1 ± 0.1631
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

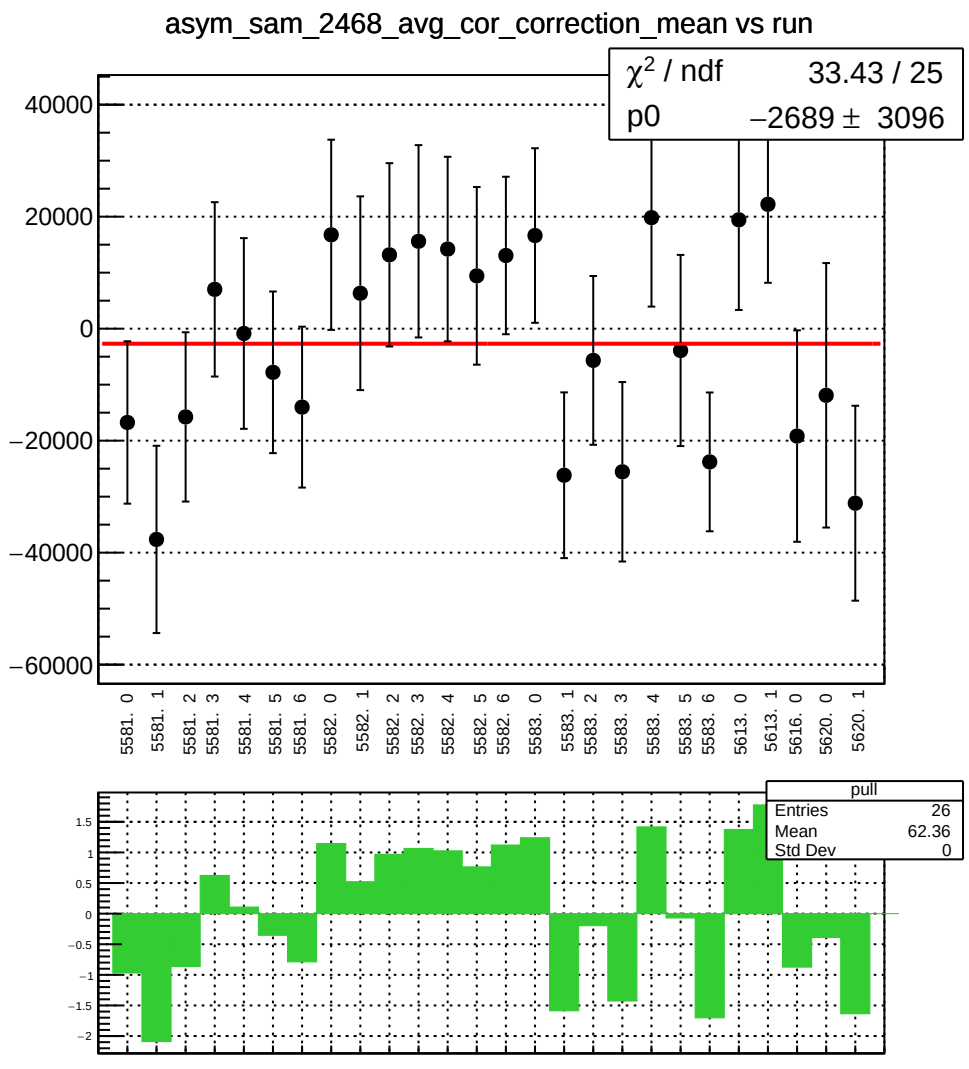

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 36.2 / 32
p0 −3595 ± 2951
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 62.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.0247
Std Dev 1.047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

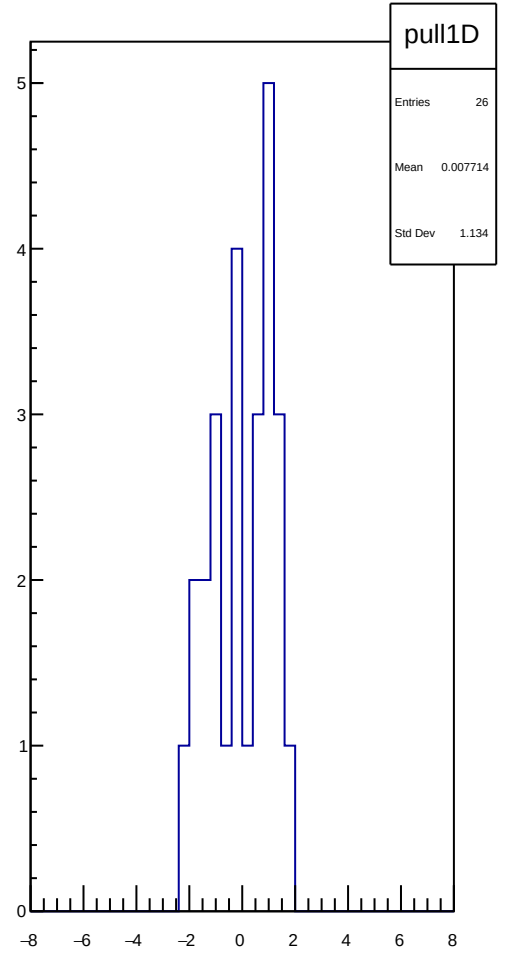

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 2.293e+04 / 32
p0 1655 ± 2.087
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

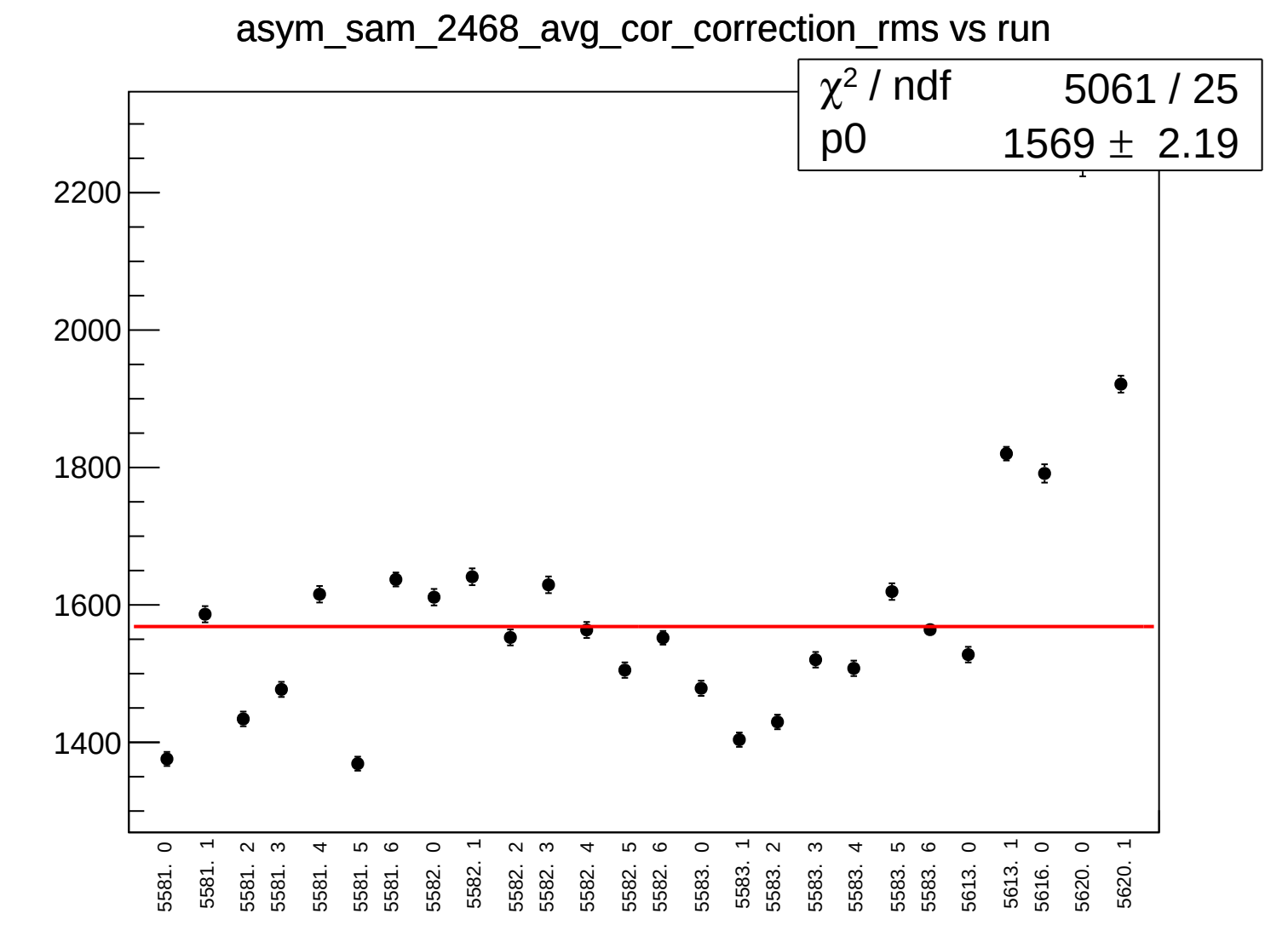

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 23.17 / 32
p0 −445.6 ± 231
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.31
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

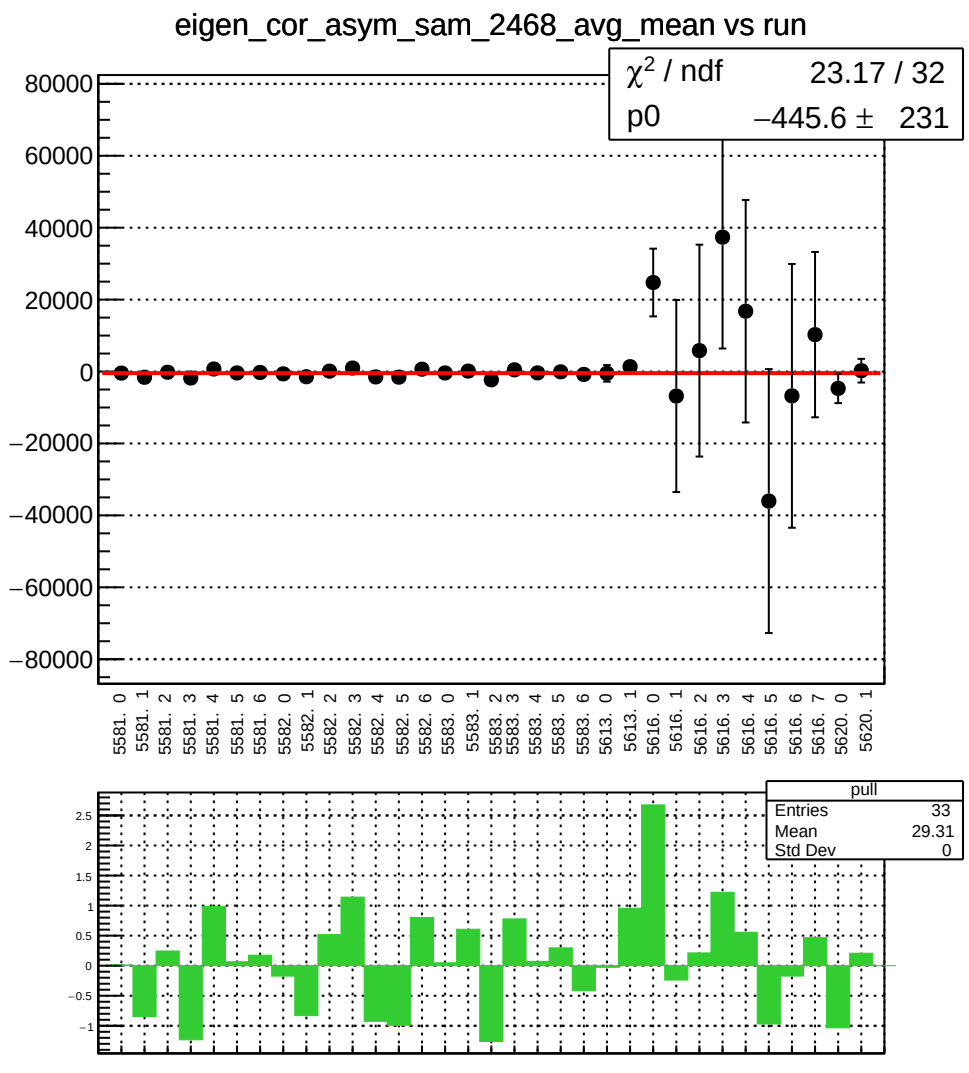

pull1D
Entries 33
Mean 0.08832
Std Dev 0.8333
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

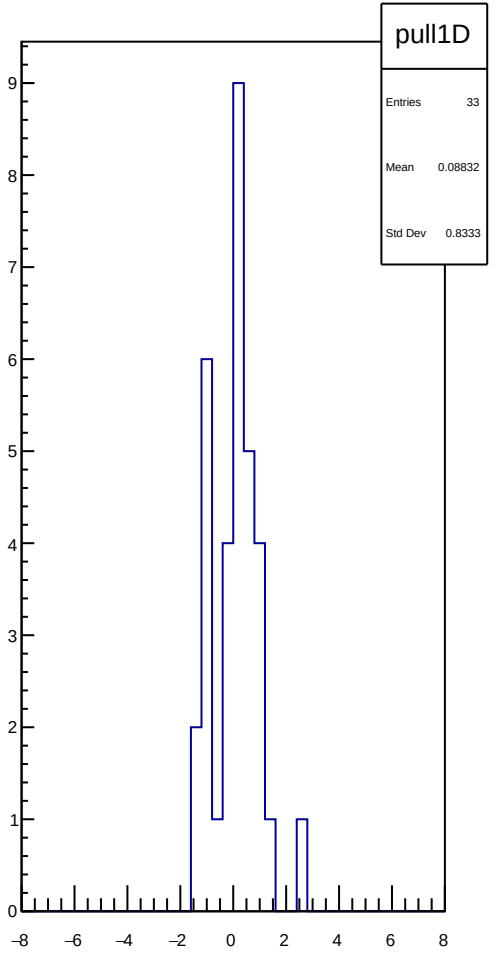

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.839e+05 / 32
p0 111.8 ± 0.1634
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

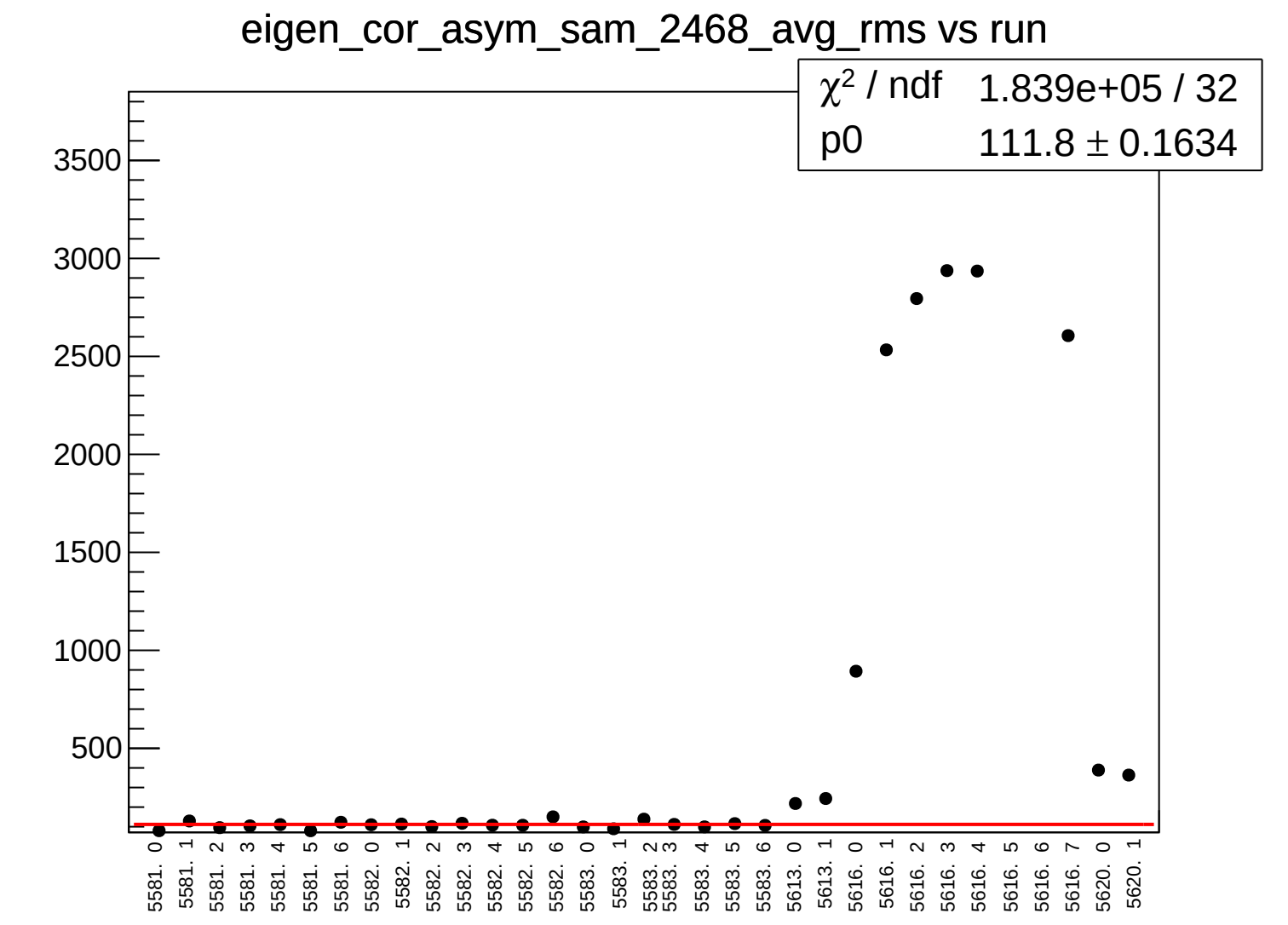

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 33.43 / 25
p0 −2689 ± 3096
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 62.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

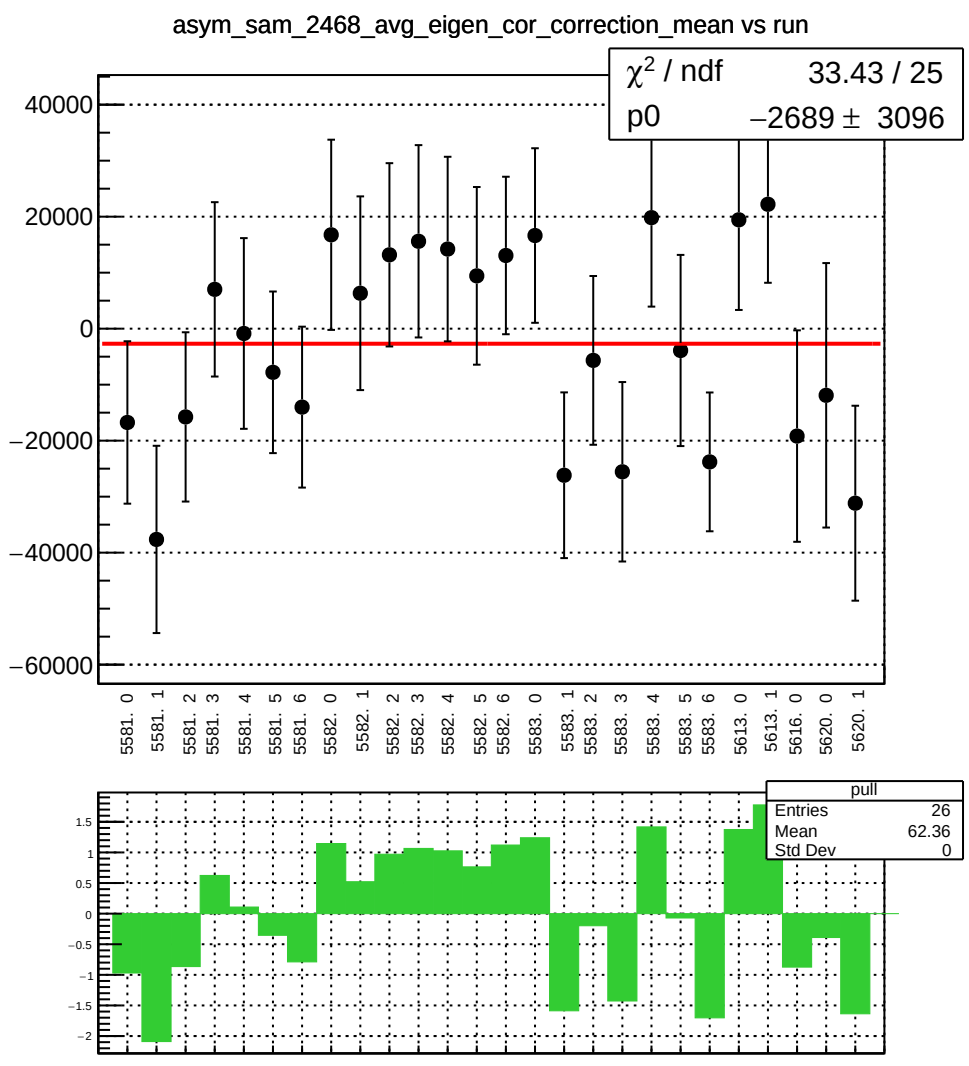

pull1D
Entries 26
Mean 0.007714
Std Dev 1.134
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

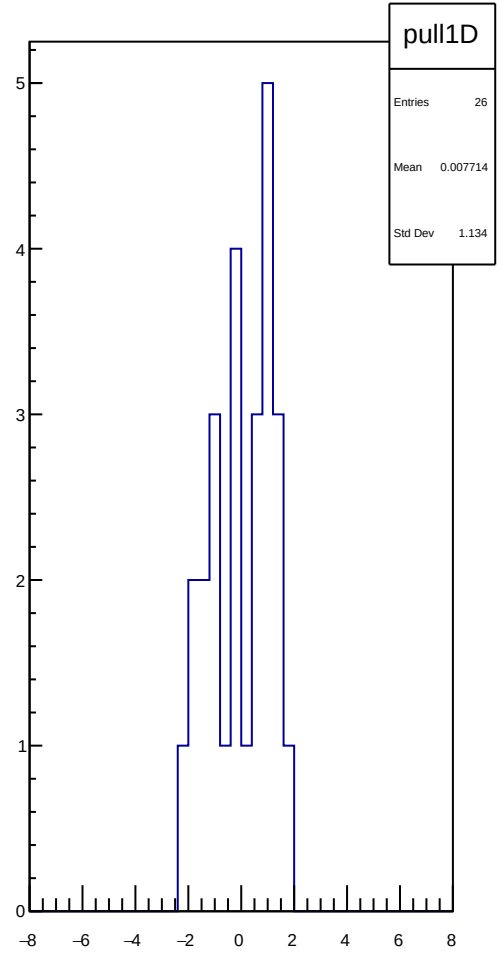

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 5061 / 25
p0 1569 ± 2.19
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

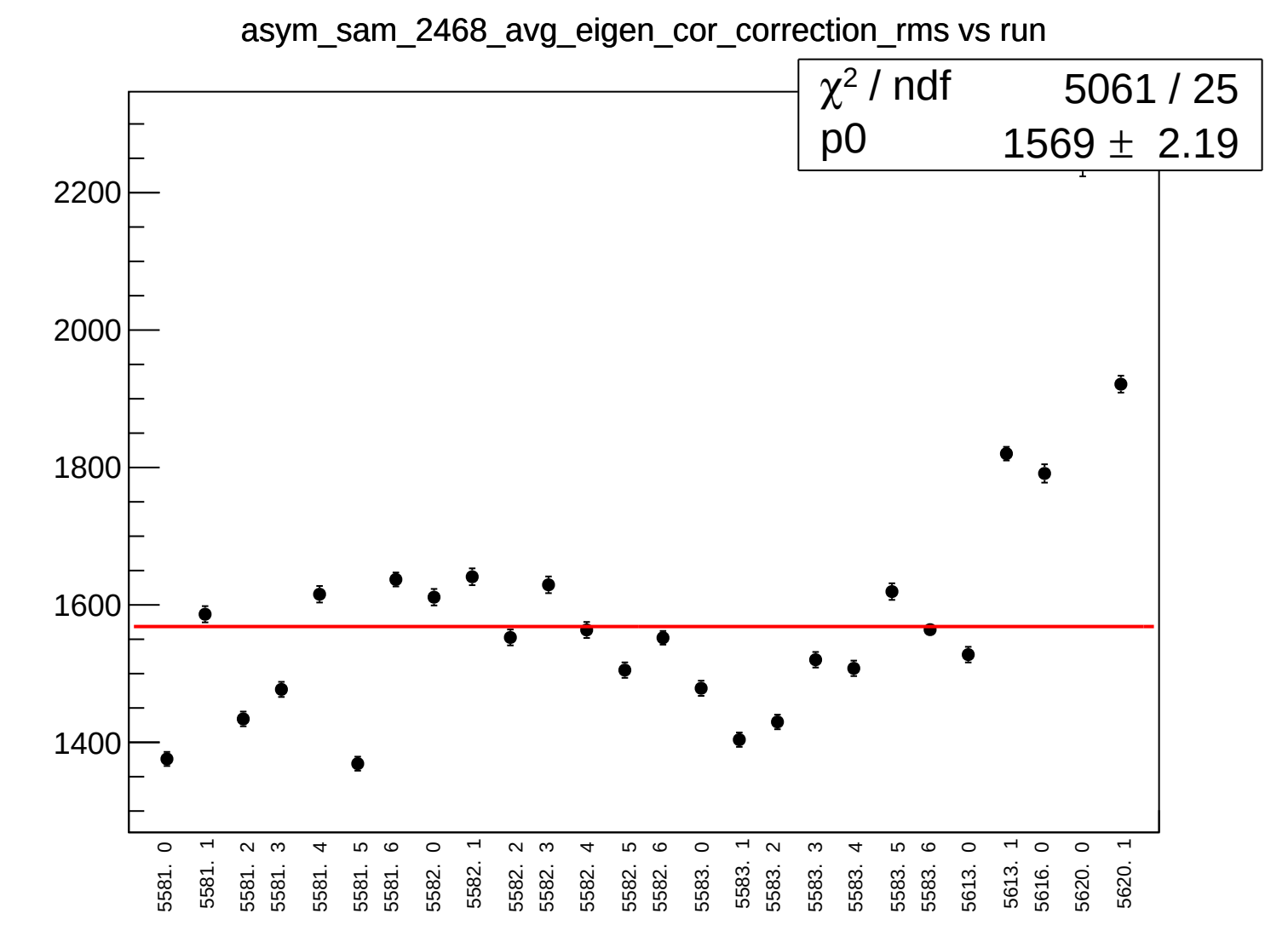

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 23.17 / 32
p0 −445.6 ± 231
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.31
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

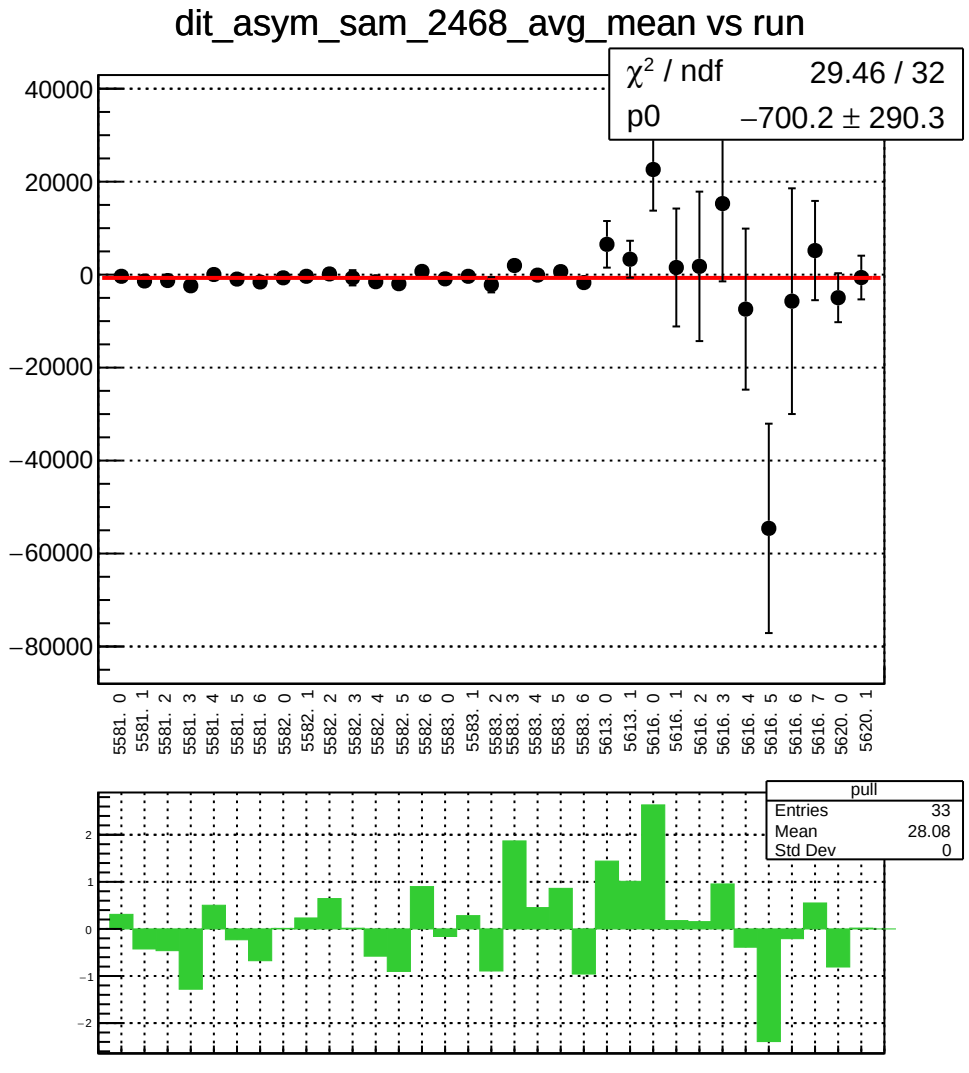

pull1D
Entries 33
Mean 0.08832
Std Dev 0.8333
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

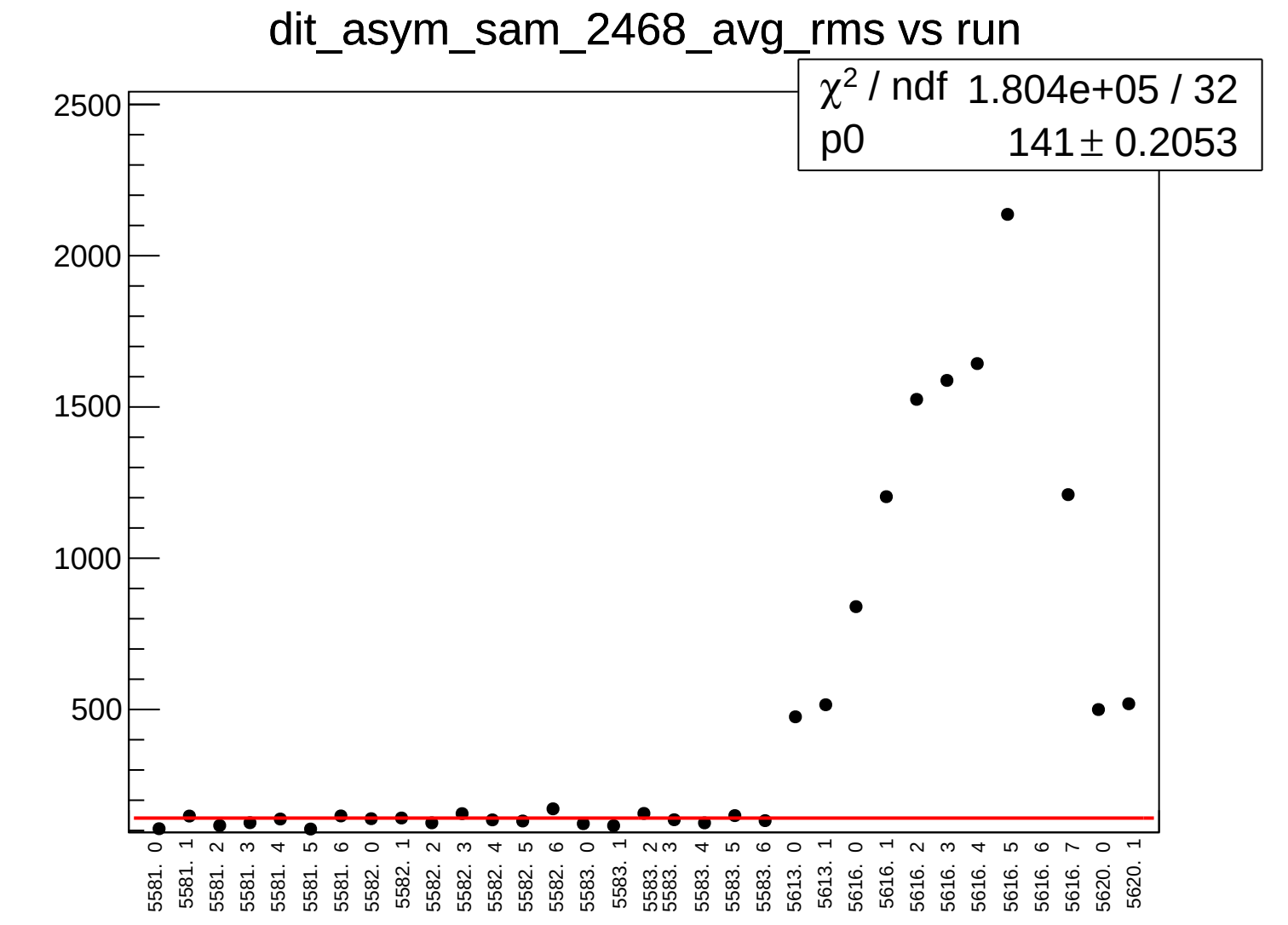

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.839e+05 / 32
p0 111.8 ± 0.1634
3500
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

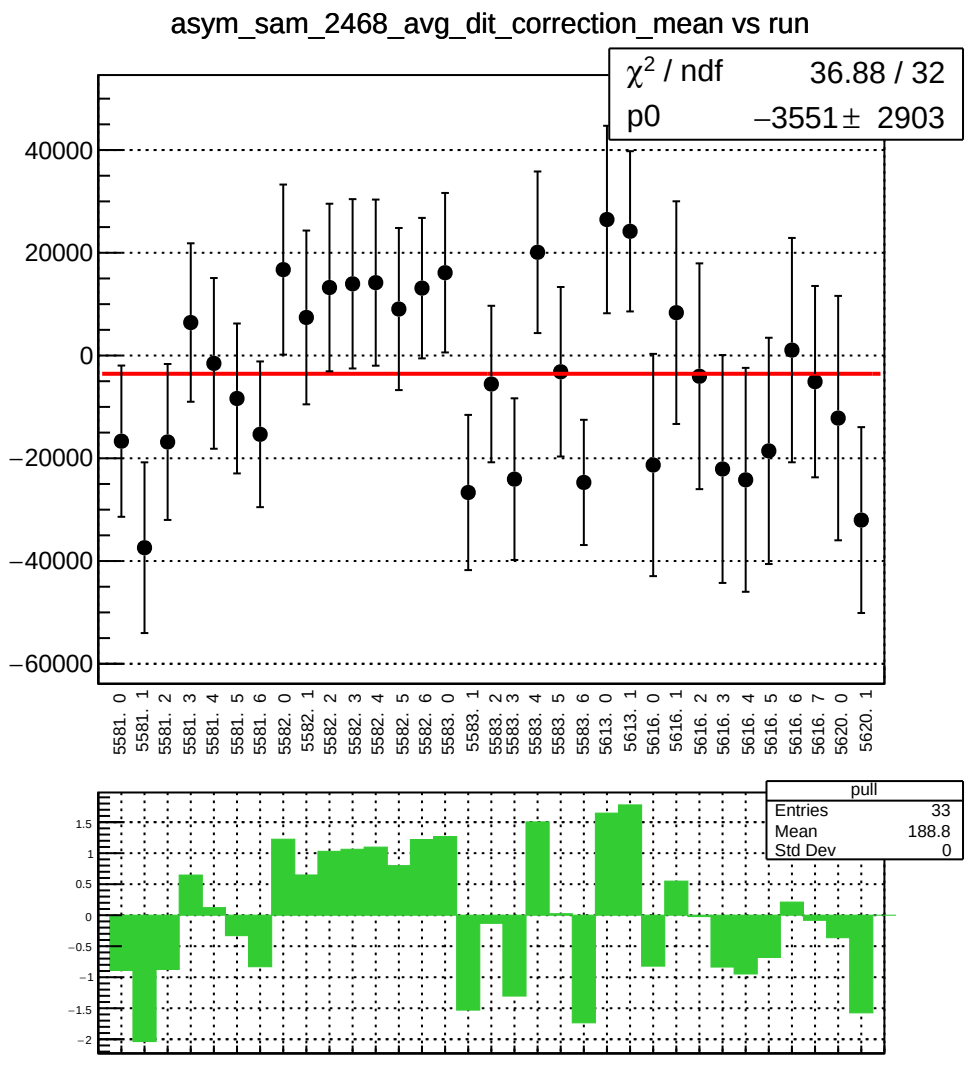

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 33.43 / 25
p0 −2689 ± 3096
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 62.36
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

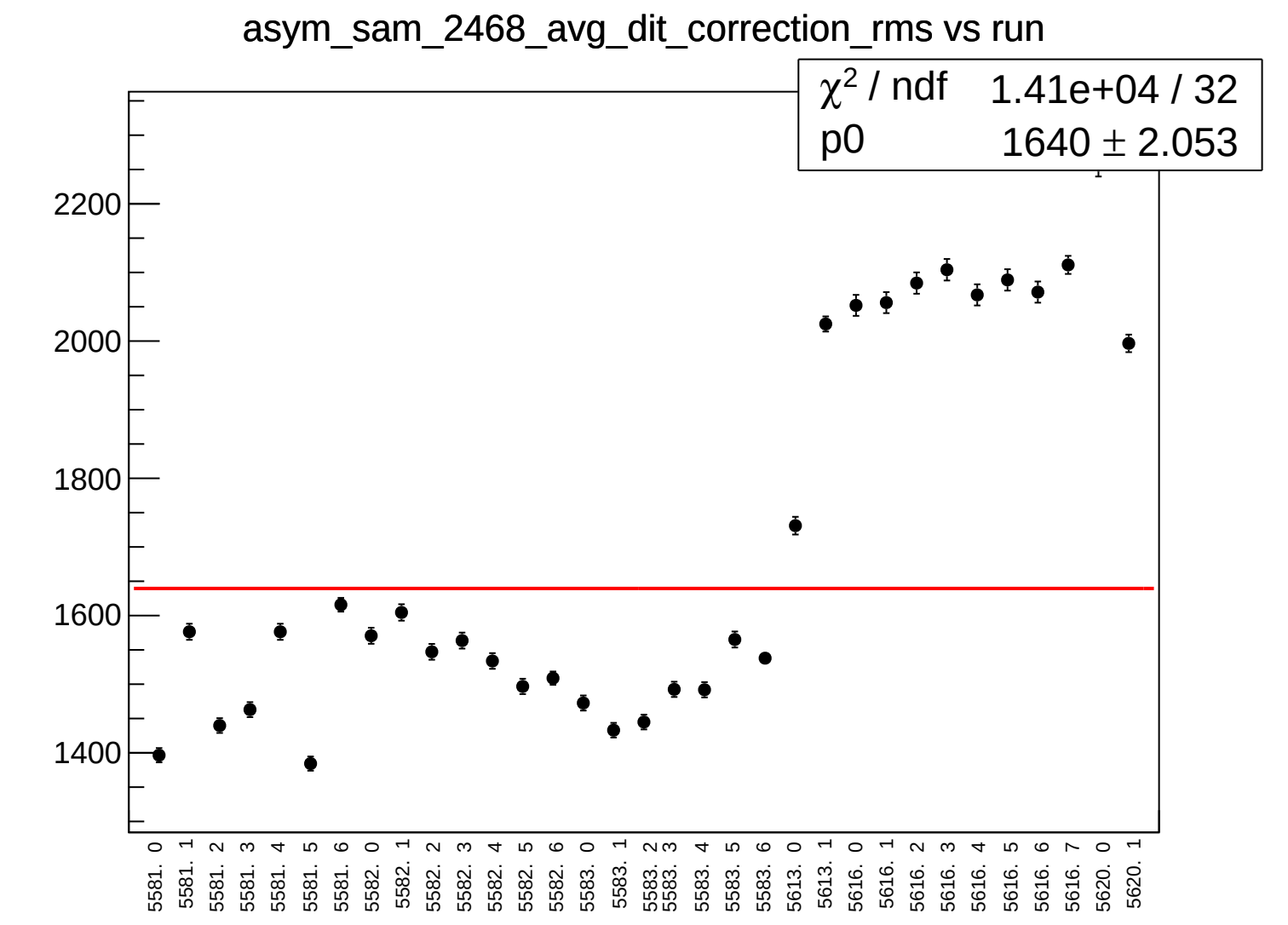

pull1D
Entries 26
Mean 0.007714
Std Dev 1.134
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

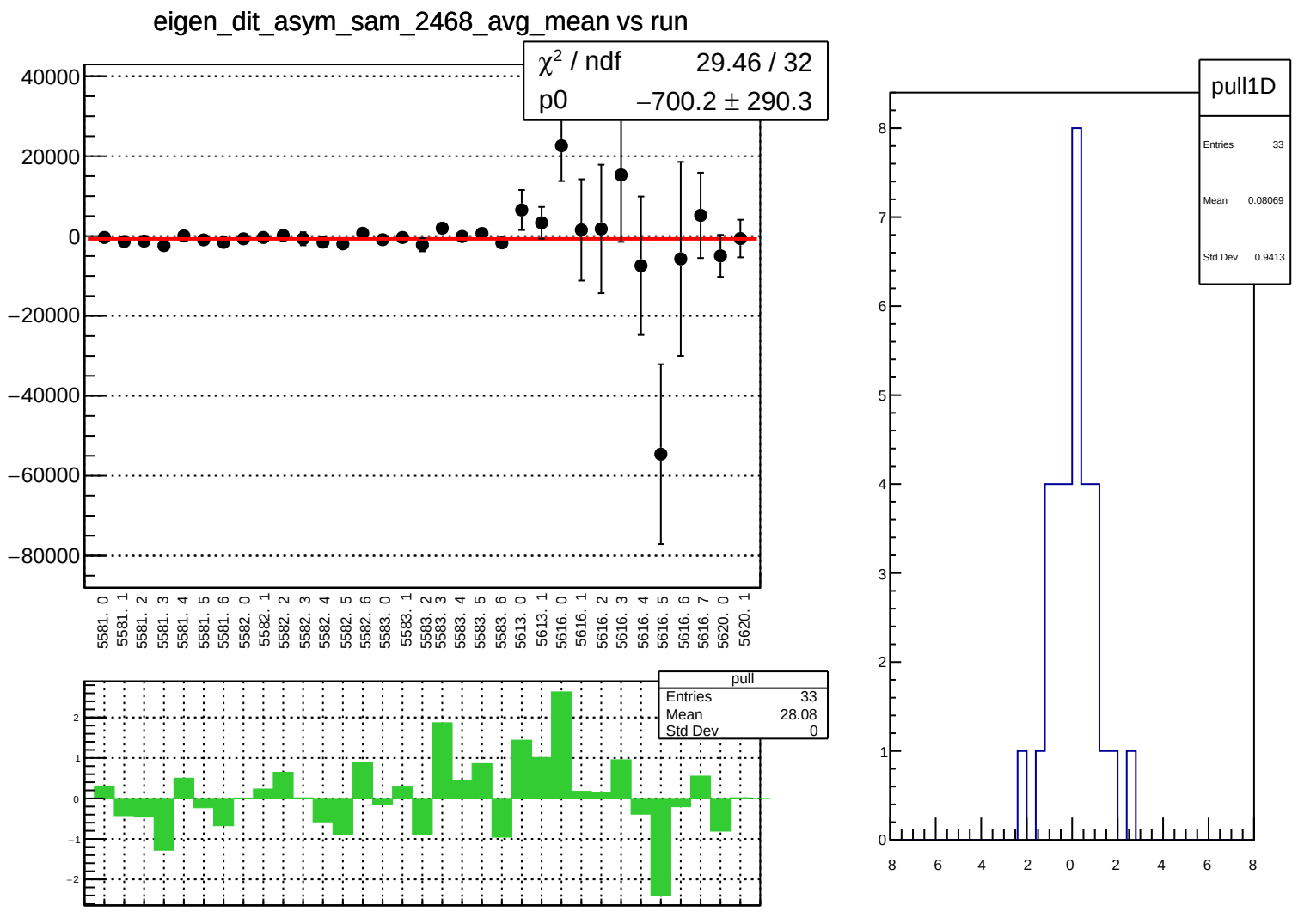

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 5061 / 25
p0 1569 ± 2.19
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

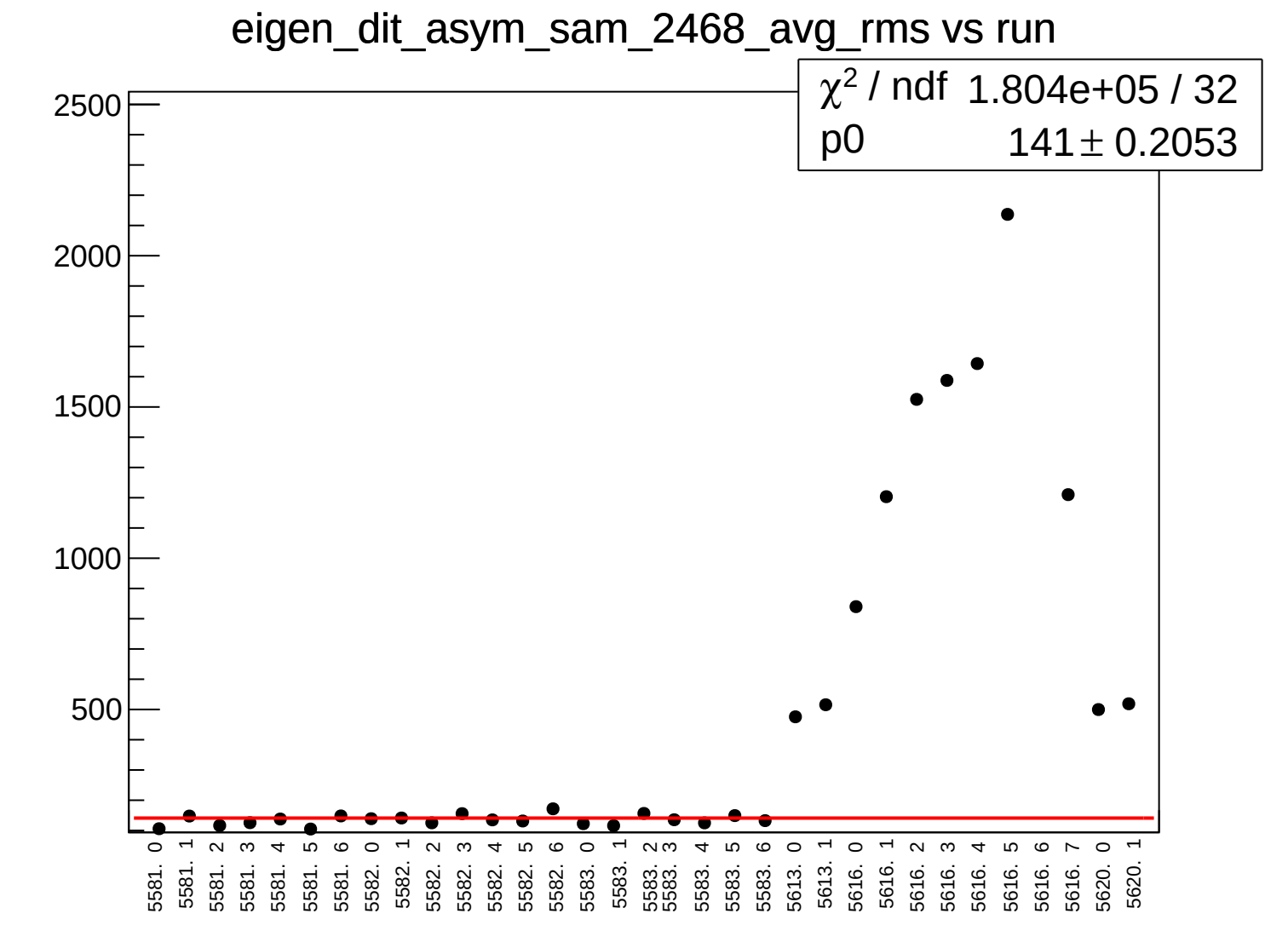

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 29.46 / 32
p0 −700.2 ± 290.3
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.08069
Std Dev 0.9413
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

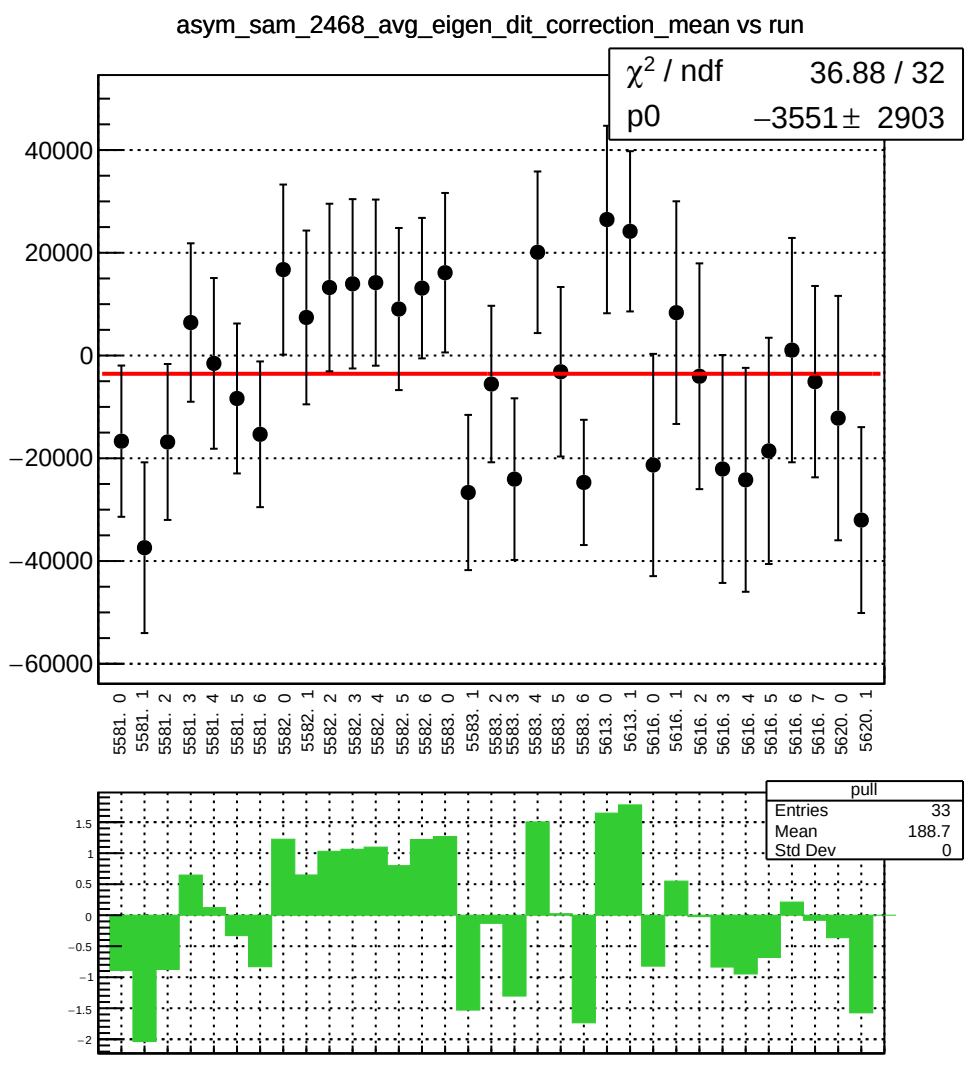

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.804e+05 / 32
p0 141 ± 0.2053
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

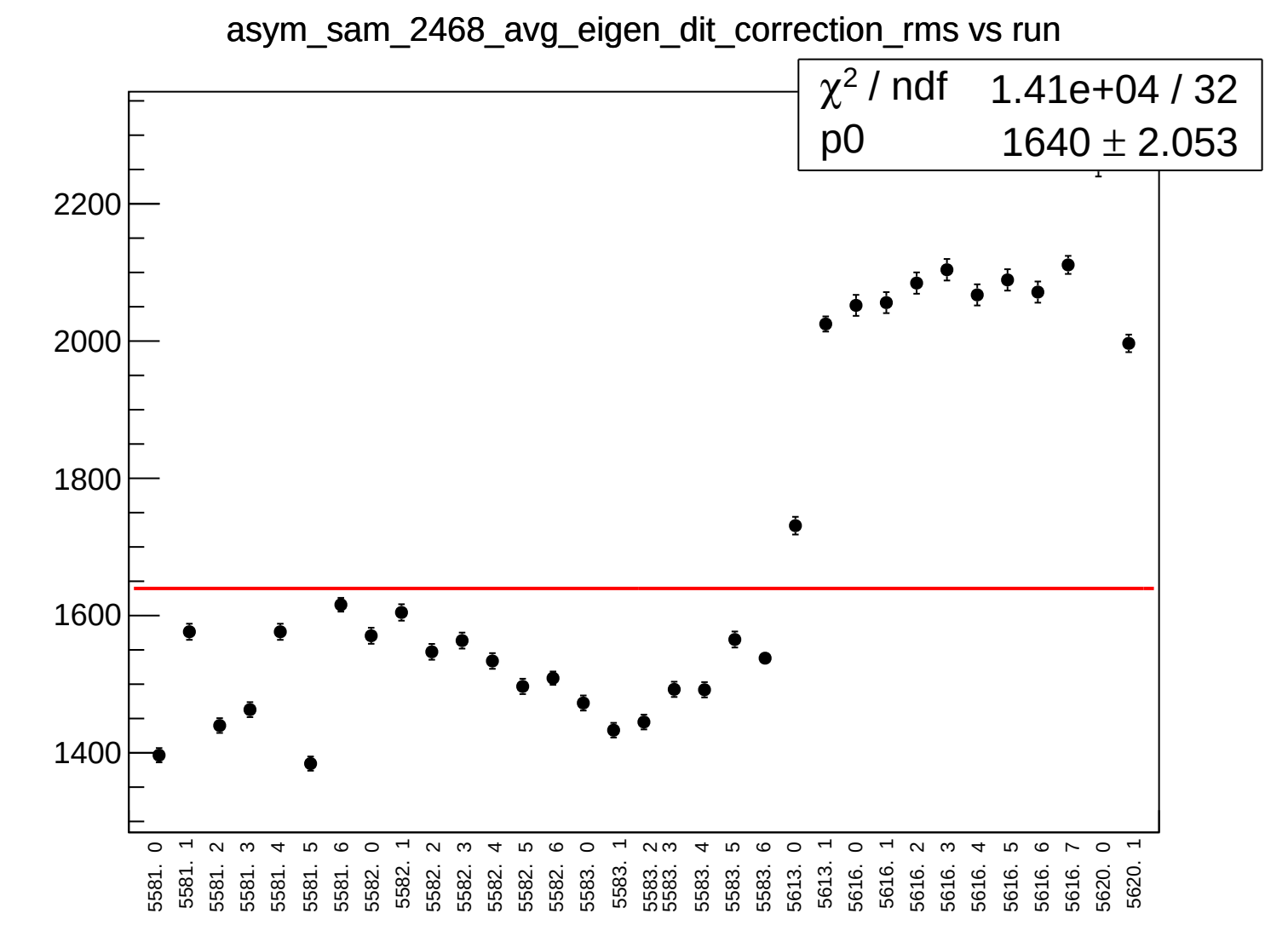

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 36.88 / 32
p0 −3551 ± 2903
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 188.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.004895
Std Dev 1.057
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

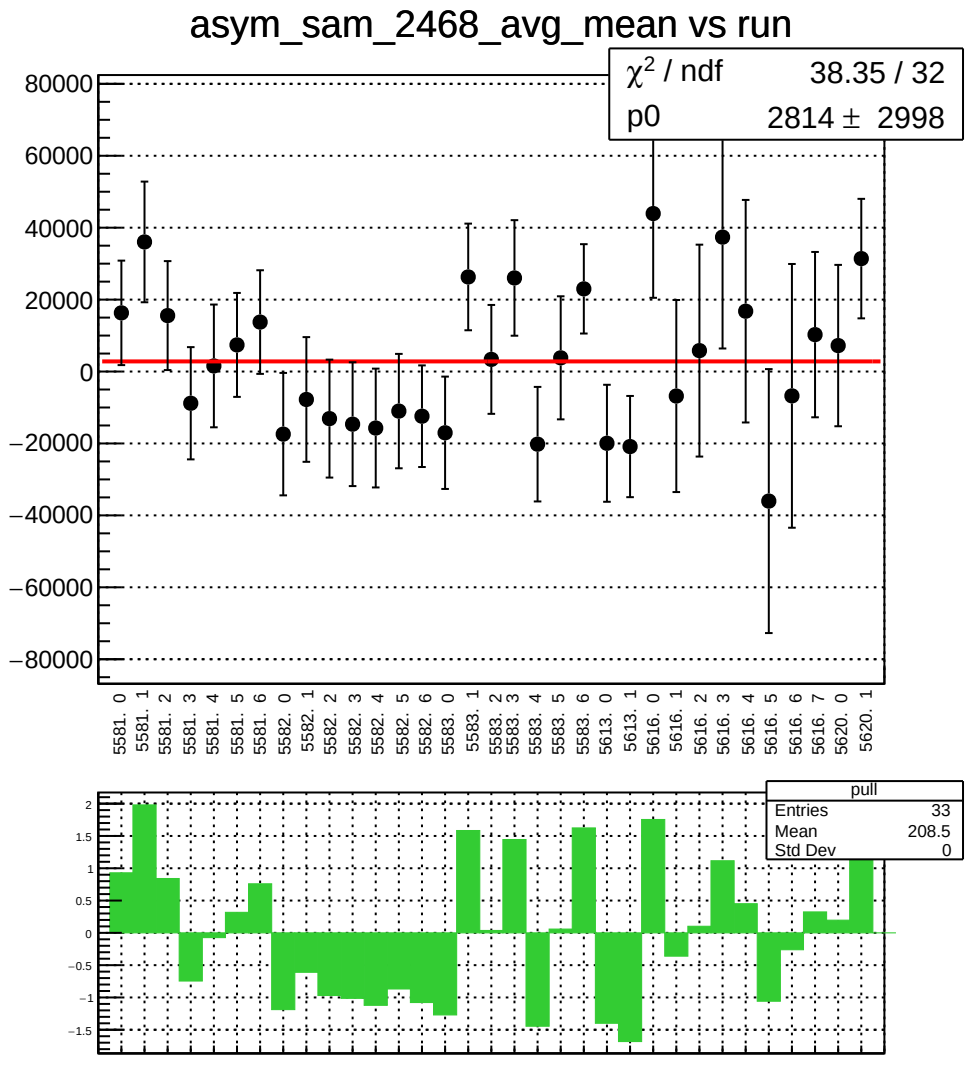

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1.41e+04 / 32
p0 1640 ± 2.053
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

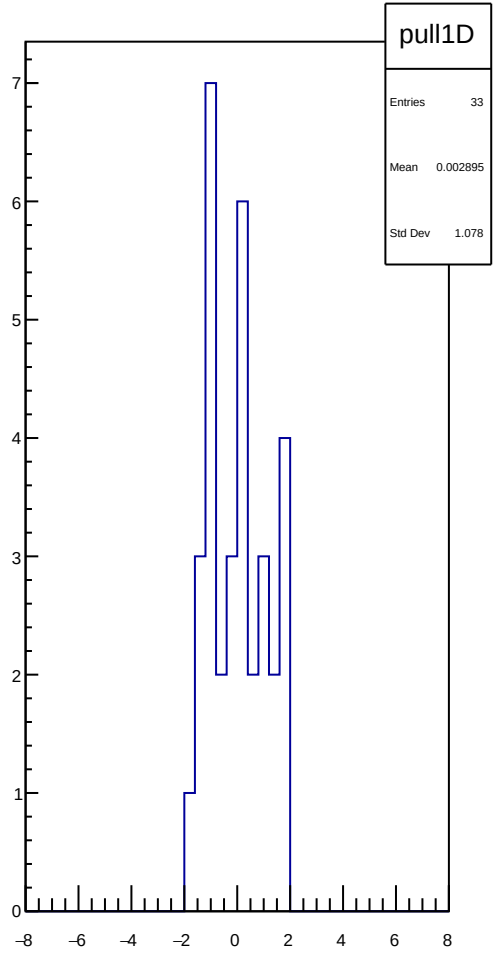

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 29.46 / 32
p0 −700.2 ± 290.3
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.08069
Std Dev 0.9413
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

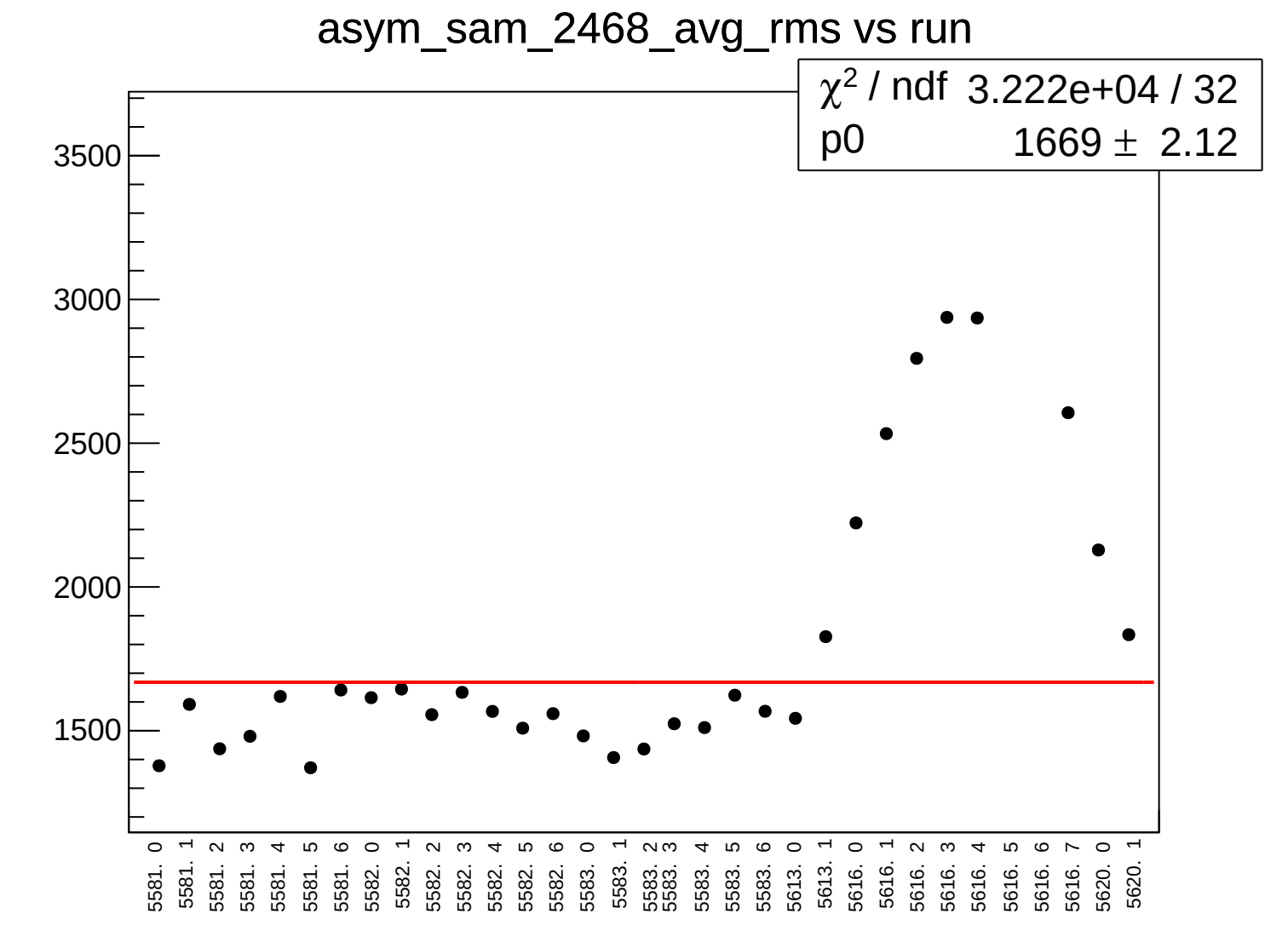

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.804e+05 / 32
p0 141 ± 0.2053
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

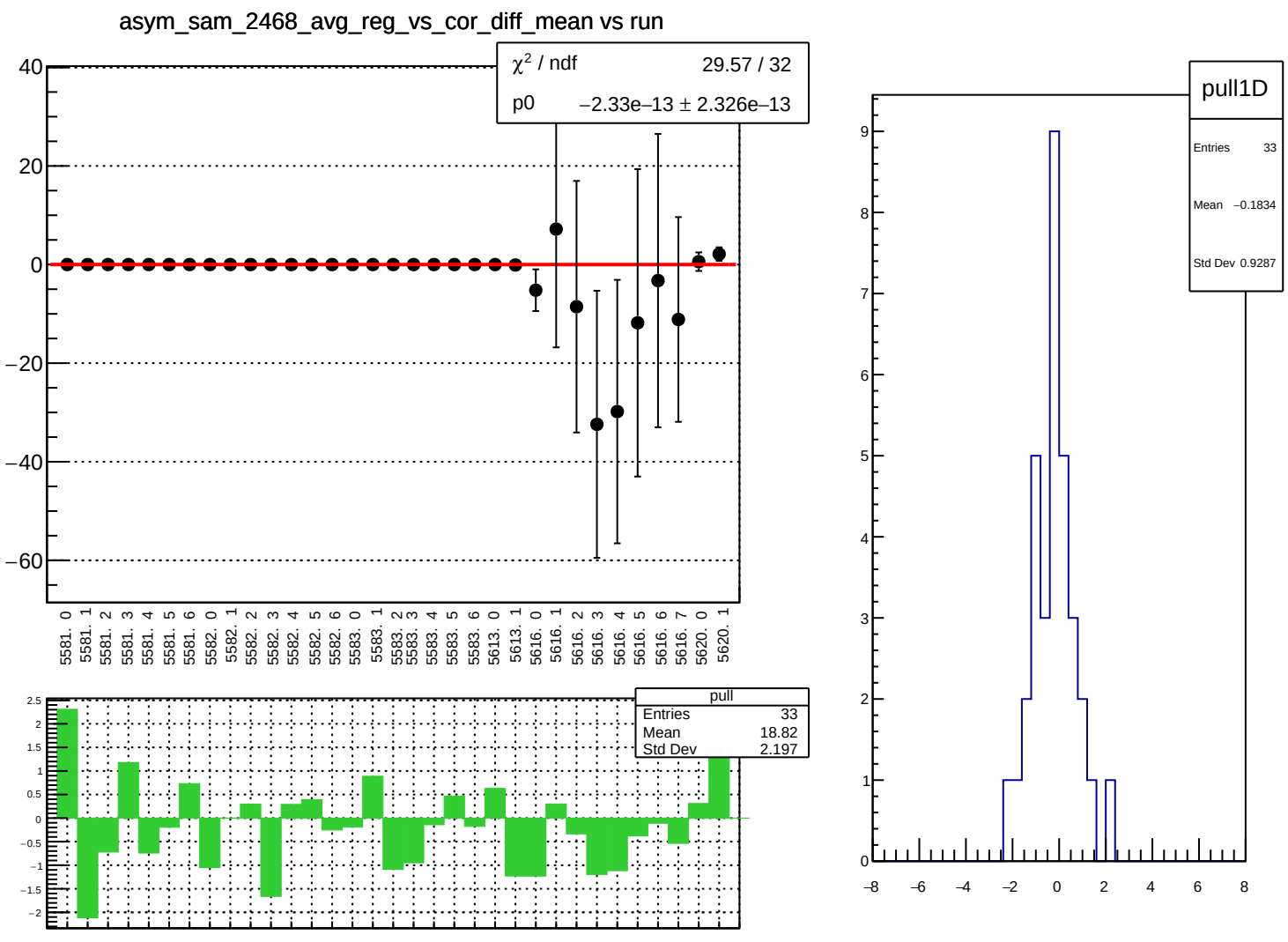

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 36.88 / 32
p0 −3551 ± 2903
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 188.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.004895
Std Dev 1.057
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

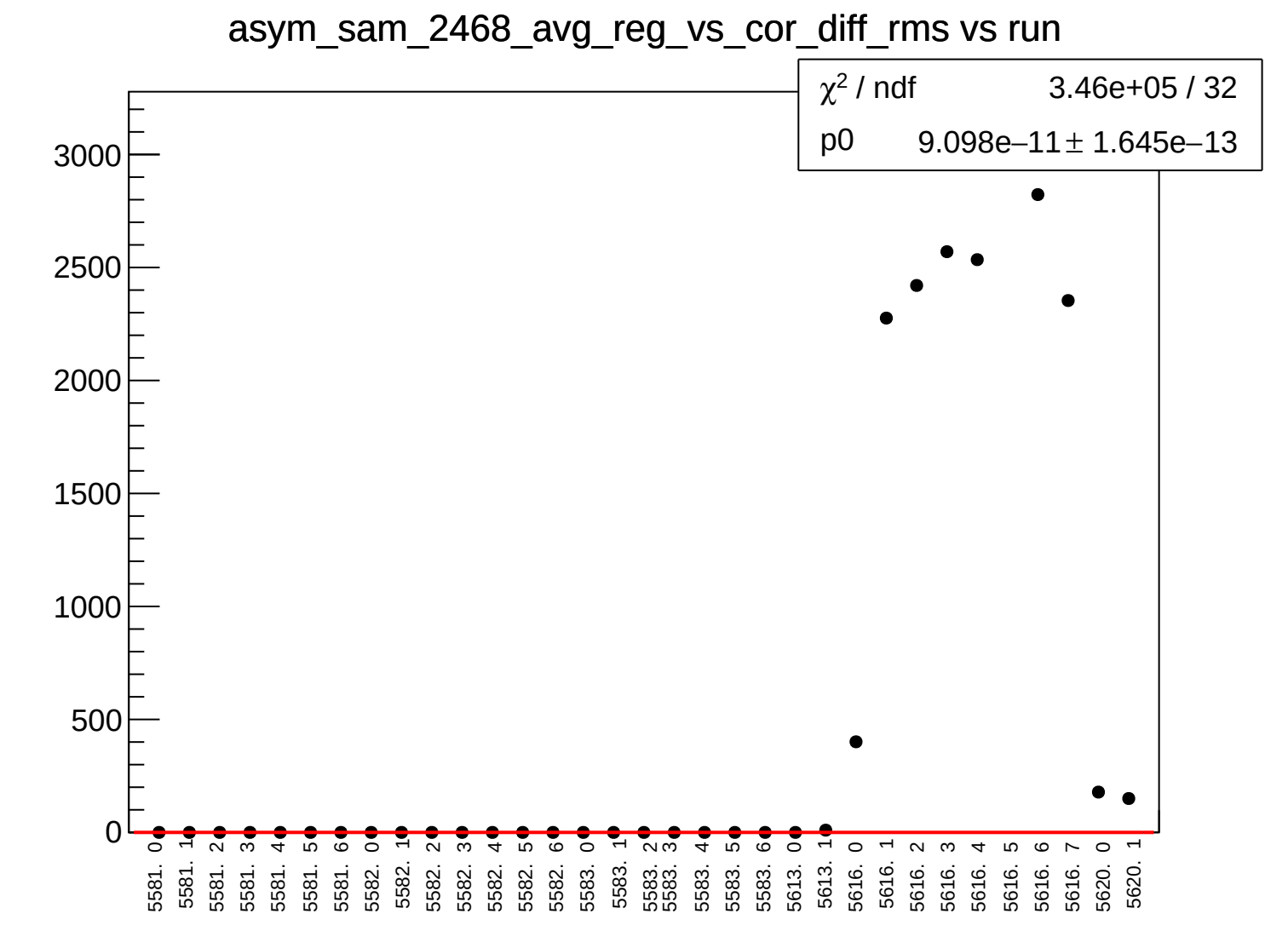

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.41e+04 / 32
p0 1640 ± 2.053
2200
2000
1800
1600
1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

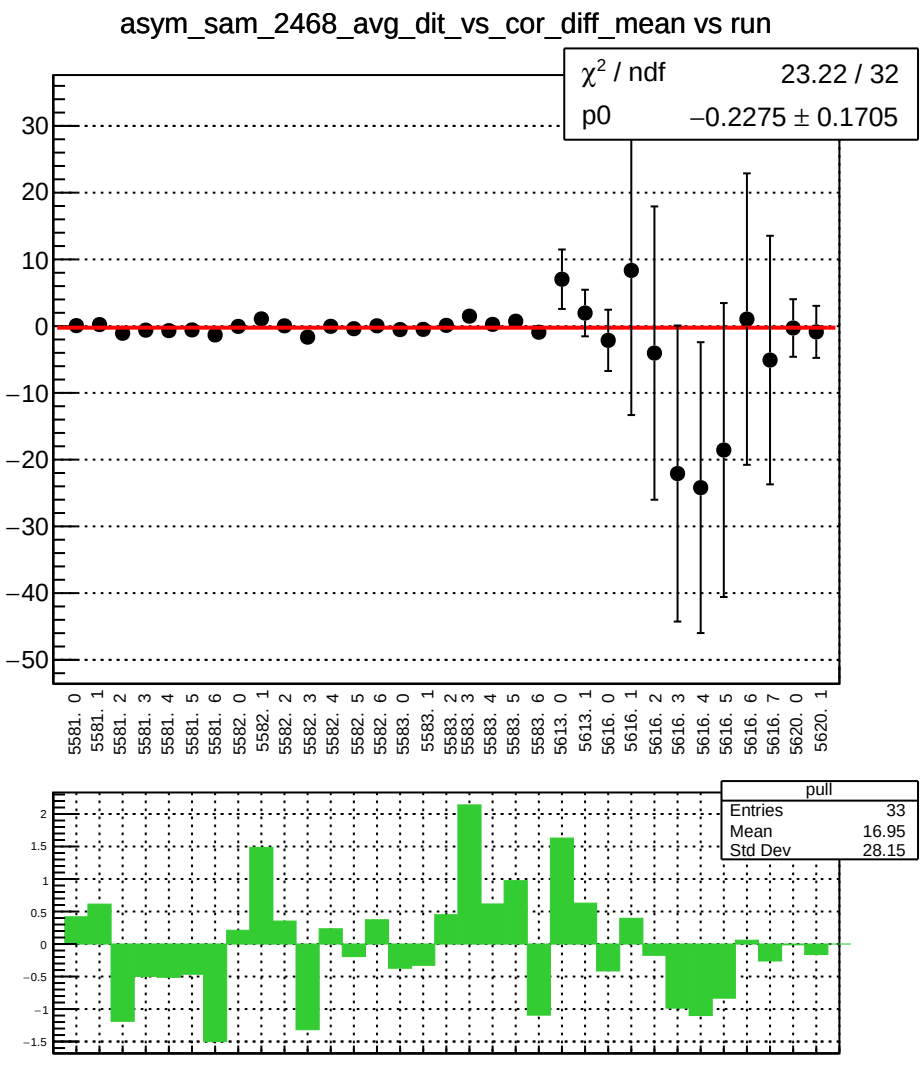

asym_sam_2468_avg_mean vs run
χ² / ndf 38.35 / 32
p0 2814 ± 2998
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 208.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

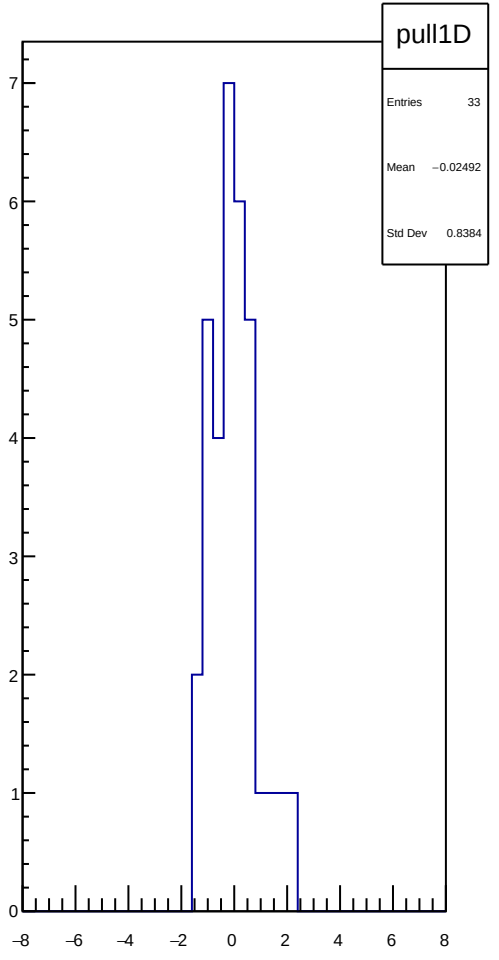

pull1D
Entries 33
Mean 0.002895
Std Dev 1.078
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

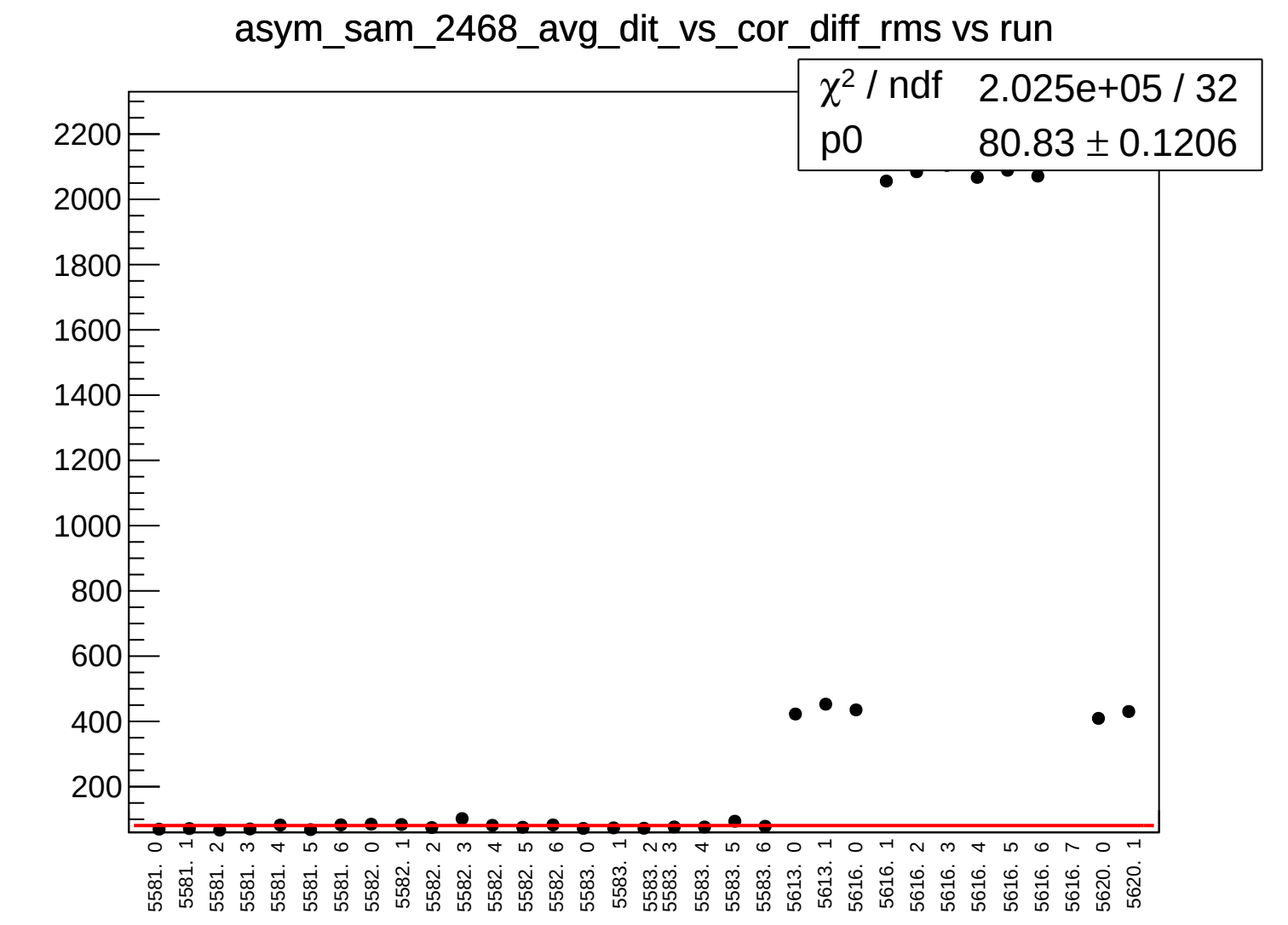

asym_sam_2468_avg_rms vs run
χ² / ndf 3.222e+04 / 32
p0 1669 ± 2.12
3500
3000
2500
2000
1500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

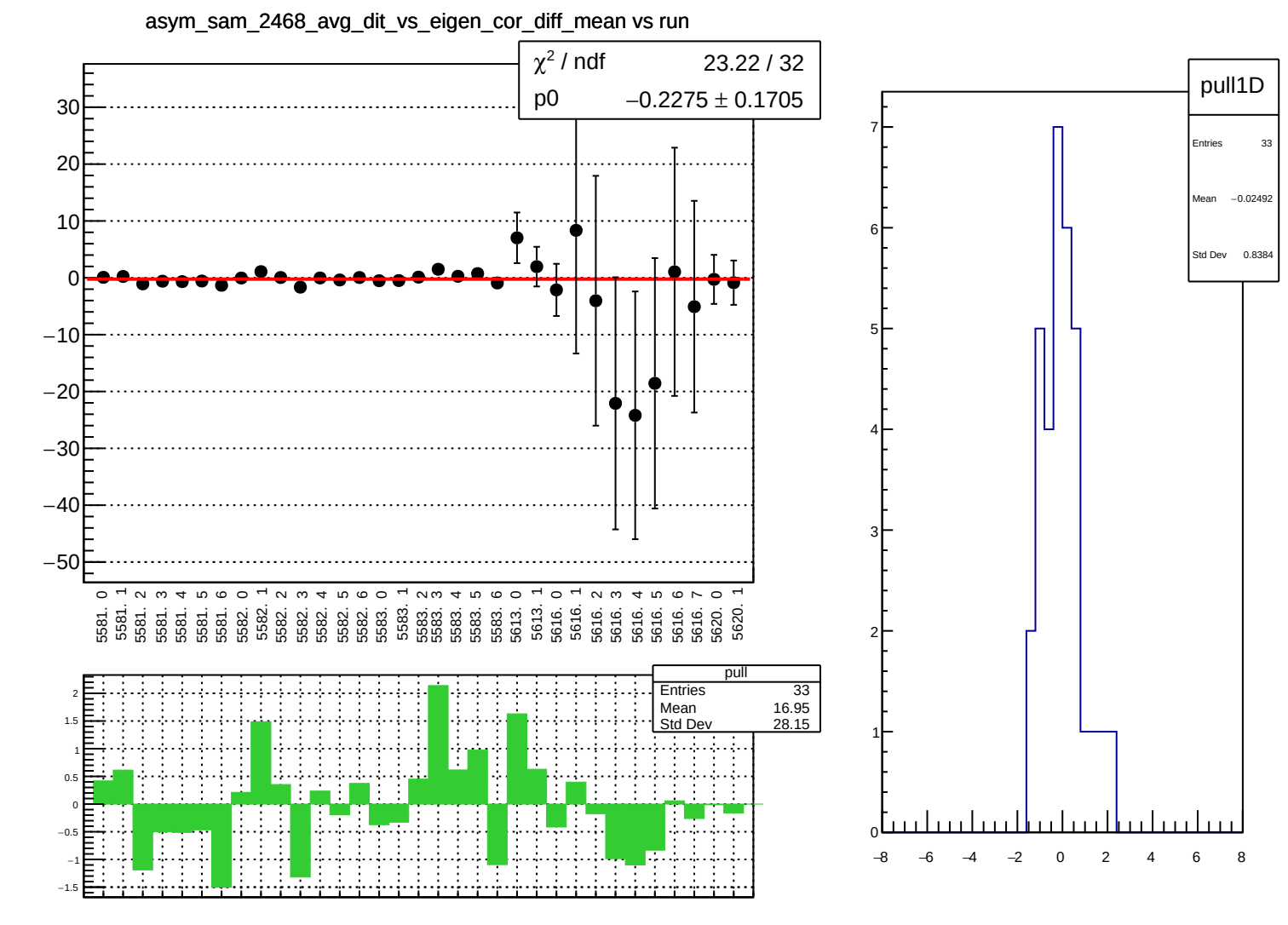

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 29.57 / 32
p0 −2.33e−13 ± 2.326e−13
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.82
Std Dev 2.197
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1834
Std Dev 0.9287
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

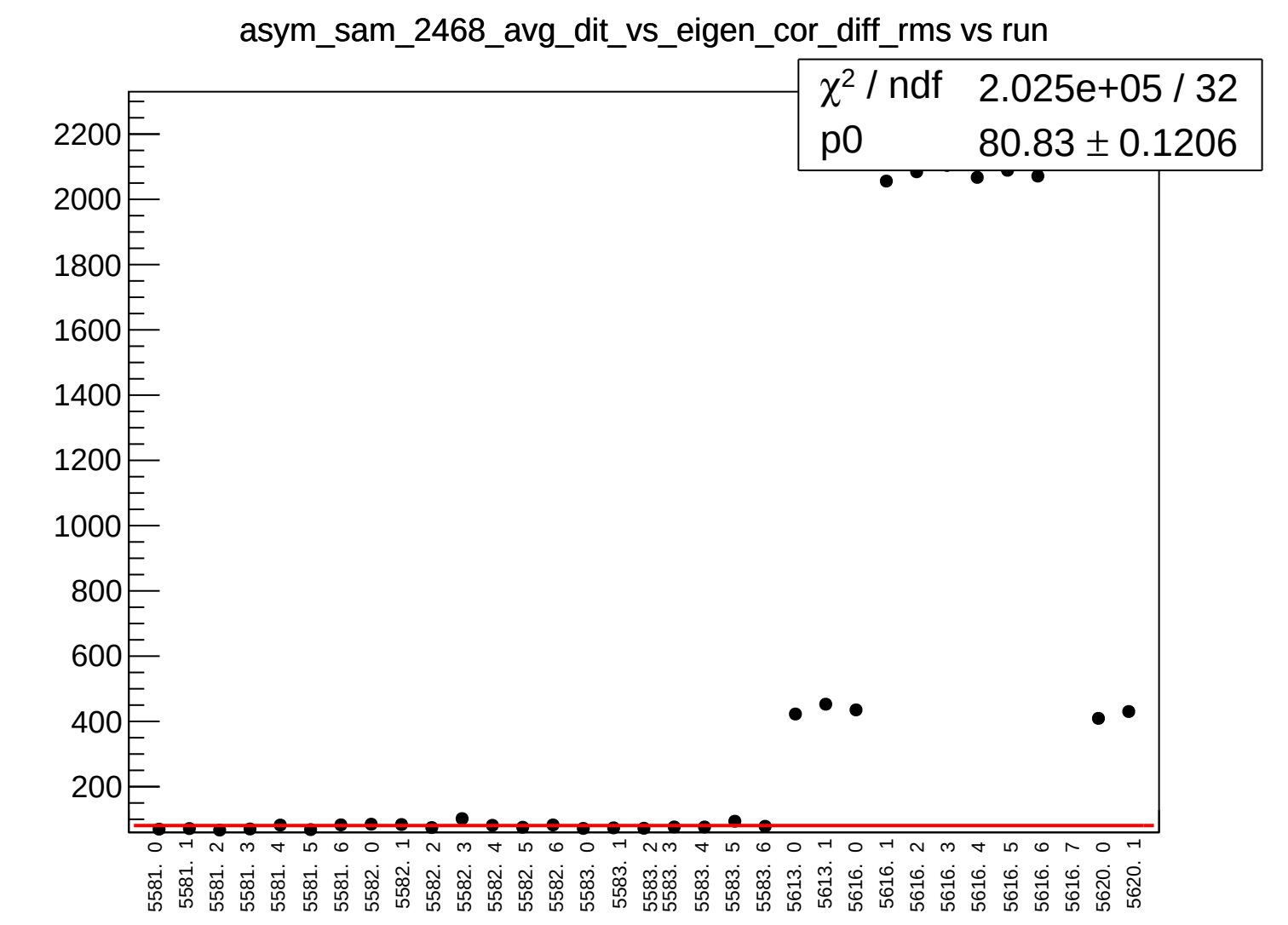

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.46e+05 / 32
p0 9.098e−11 ± 1.645e−13
3000
2500
2000
1500
1000
500
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

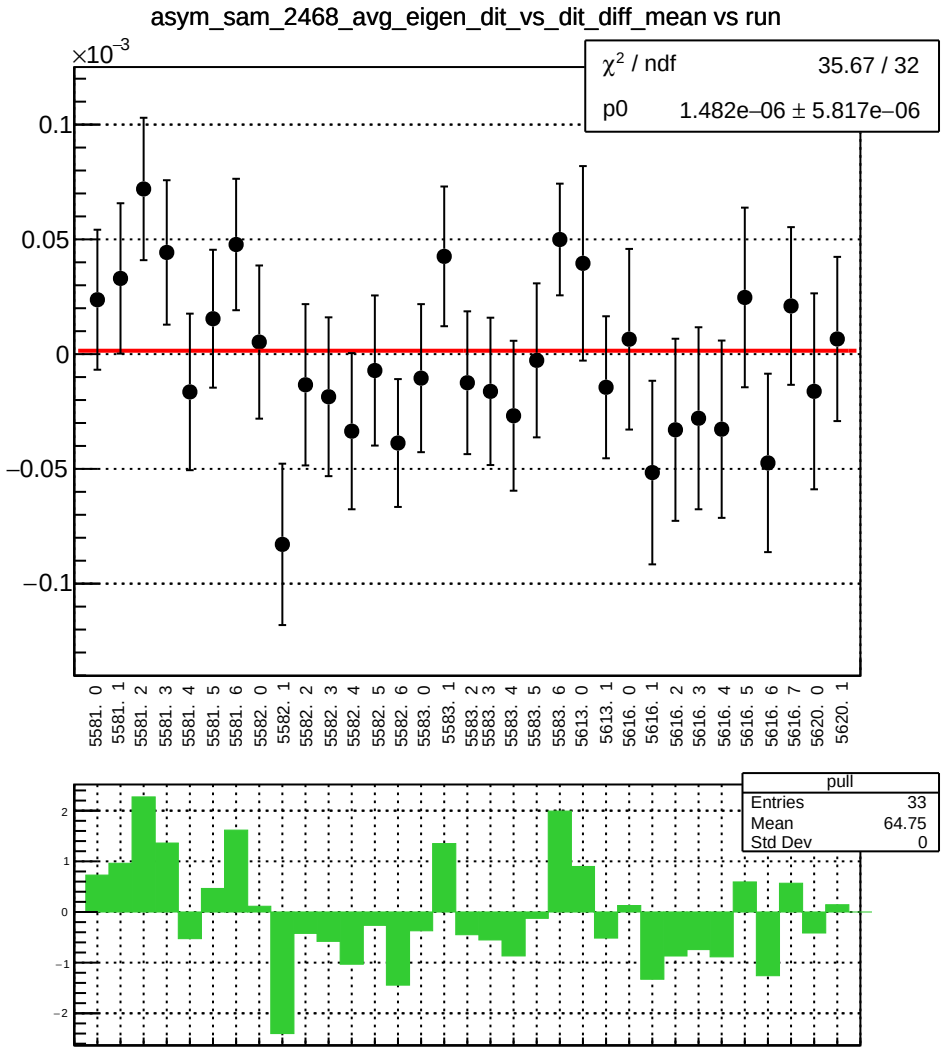

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 23.22 / 32
p0 −0.2275 ± 0.1705
30
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.95
Std Dev 28.15
2
1.5
1
0.5
0
−0.5
−1
−1.5

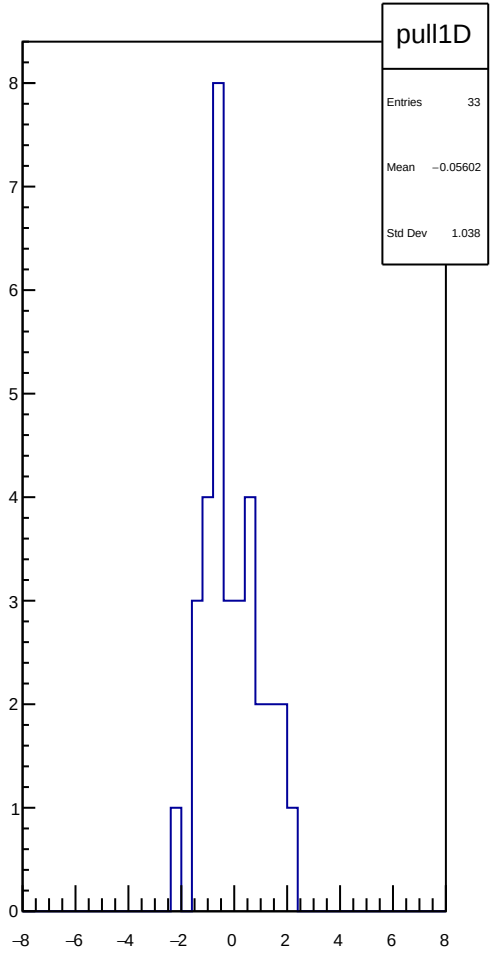

pull1D
Entries 33
Mean −0.02492
Std Dev 0.8384
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

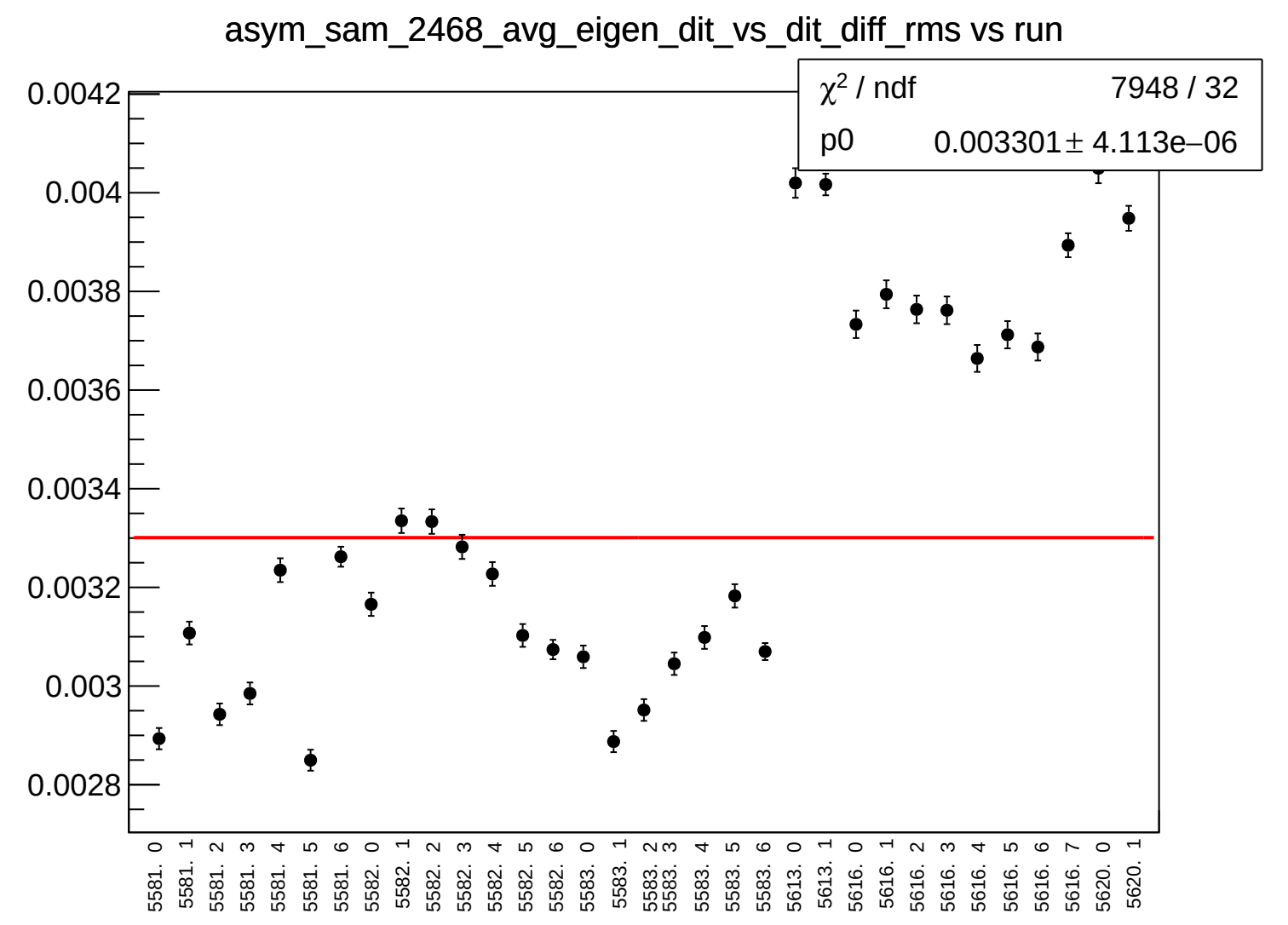

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.025e+05 / 32
p0 80.83 ± 0.1206
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

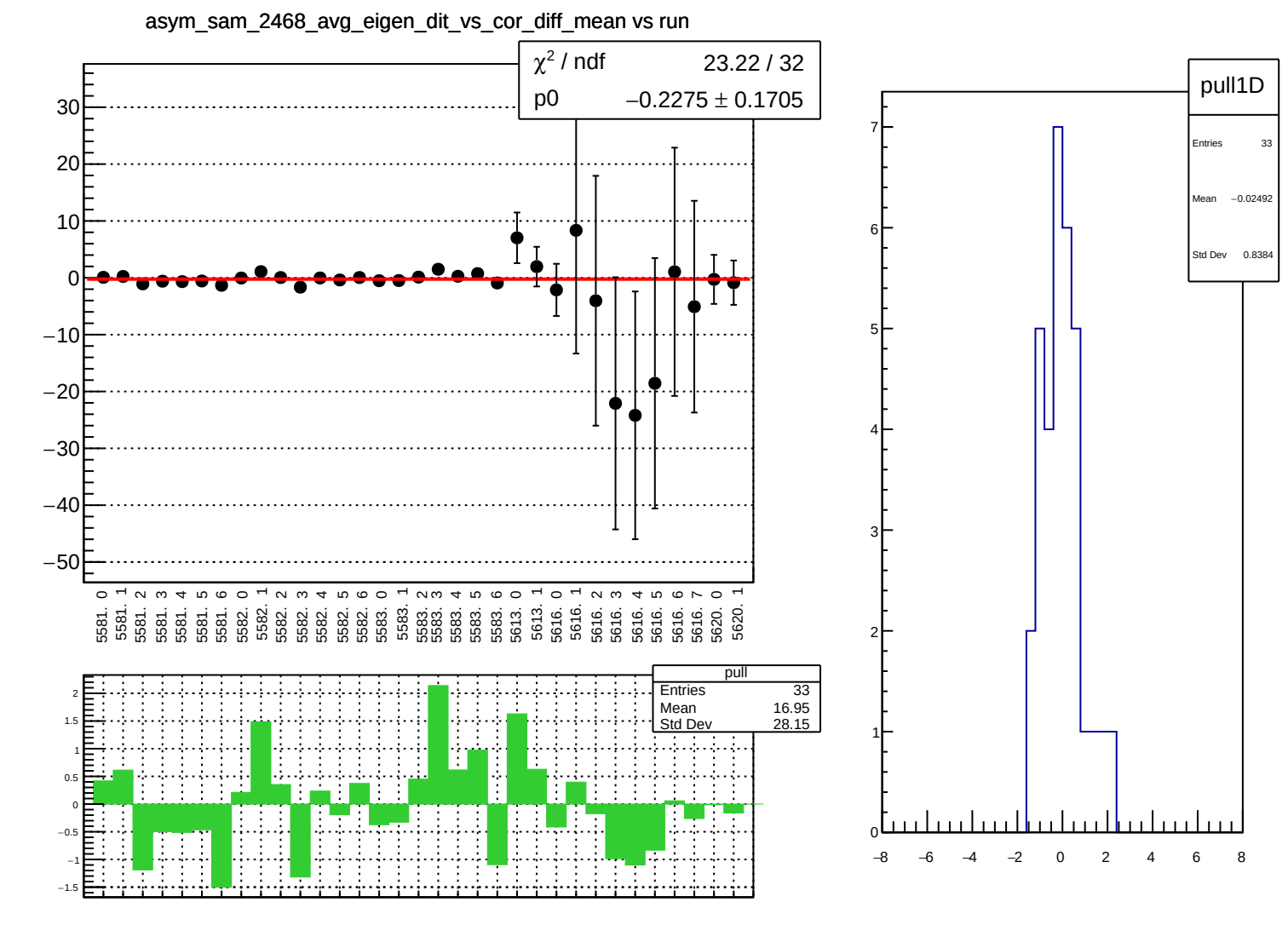

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.22 / 32
p0 −0.2275 ± 0.1705
30
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.95
Std Dev 28.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.02492
Std Dev 0.8384
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

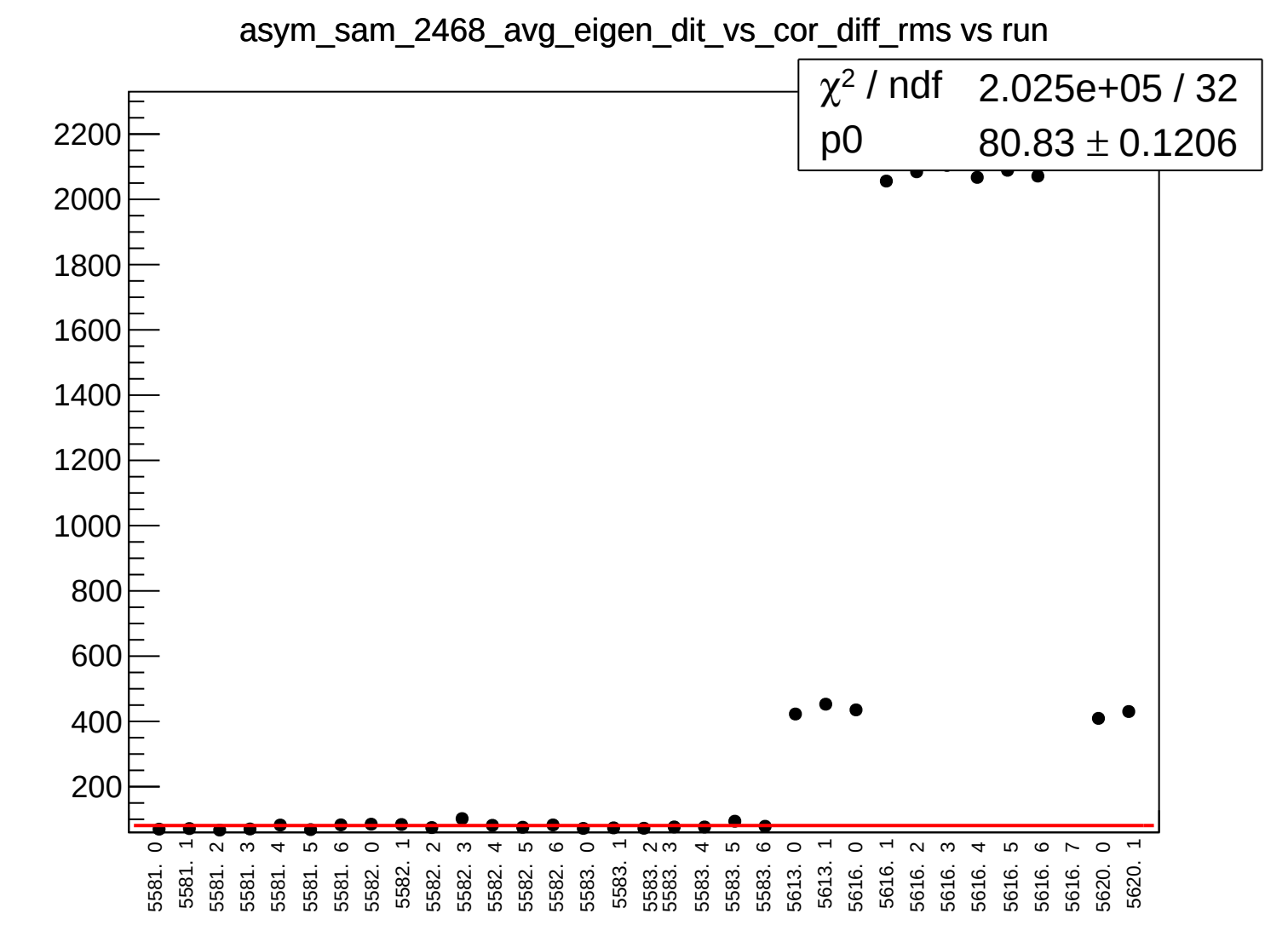

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.025e+05 / 32
p0 80.83 ± 0.1206
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

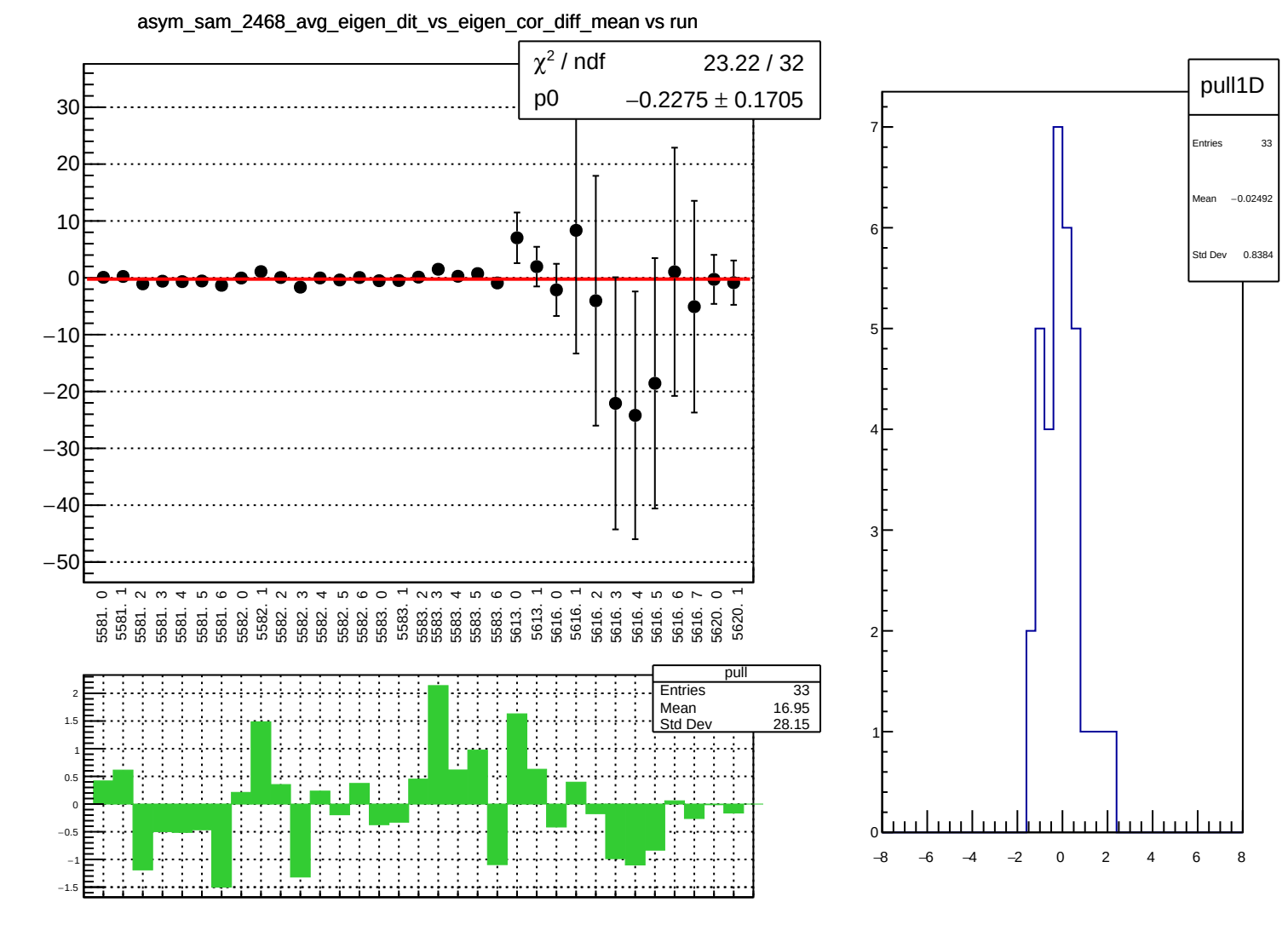

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.67 / 32
p0 1.482e−06 ± 5.817e−06
0.1
0.05
0
−0.05
−0.1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 64.75
Std Dev 0
2
1
0
−1
−2

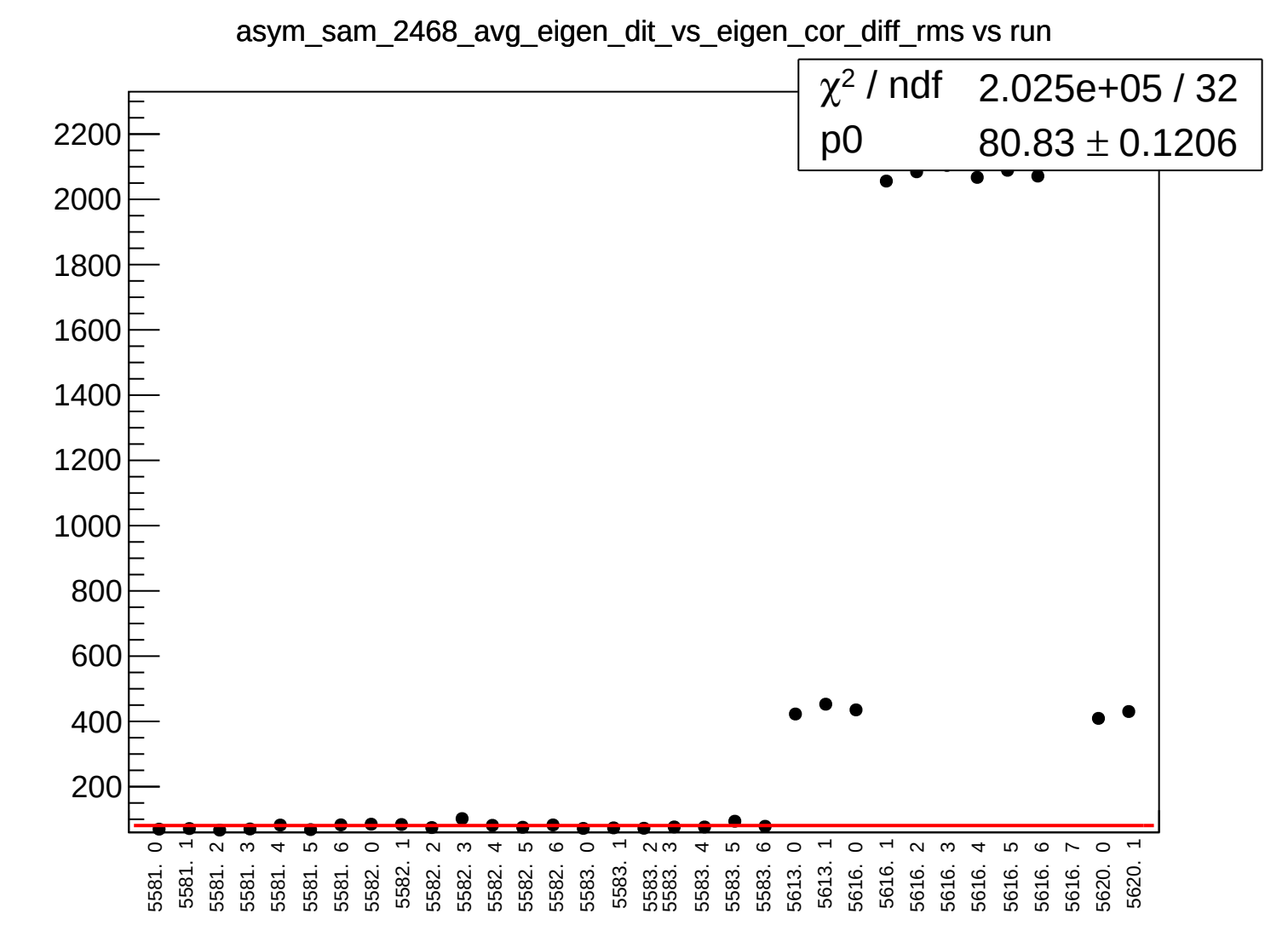

pull1D
Entries 33
Mean −0.05602
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

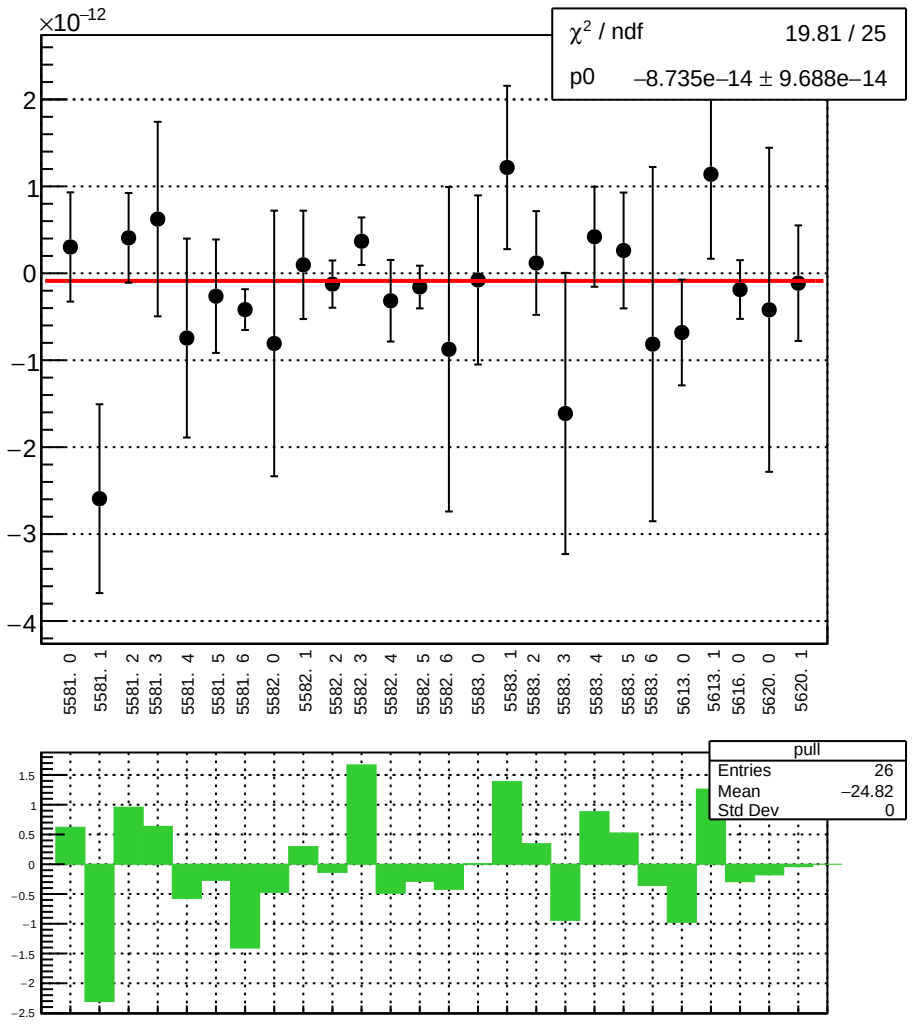

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7948 / 32
p0 0.003301 ± 4.113e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

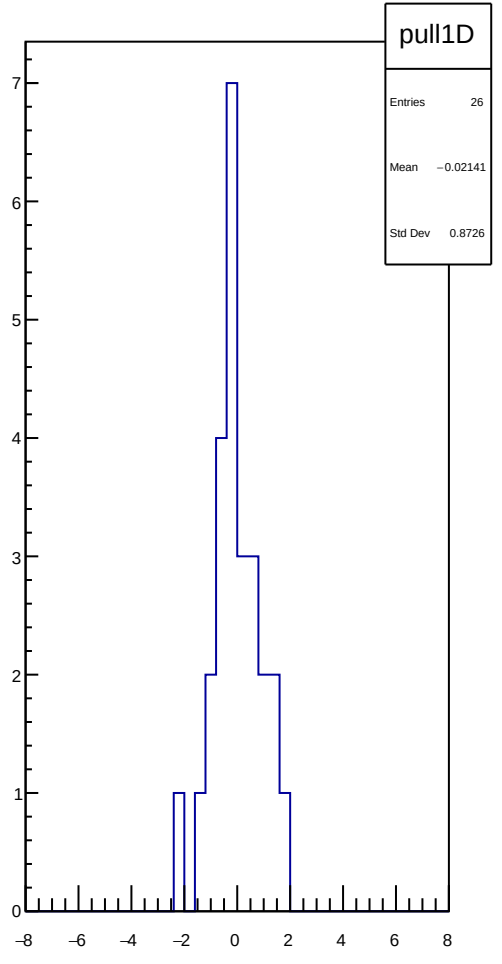

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 23.22 / 32
p0 −0.2275 ± 0.1705
pull
Entries 33
Mean 16.95
Std Dev 28.15
pull1D
Entries 33
Mean −0.02492
Std Dev 0.8384

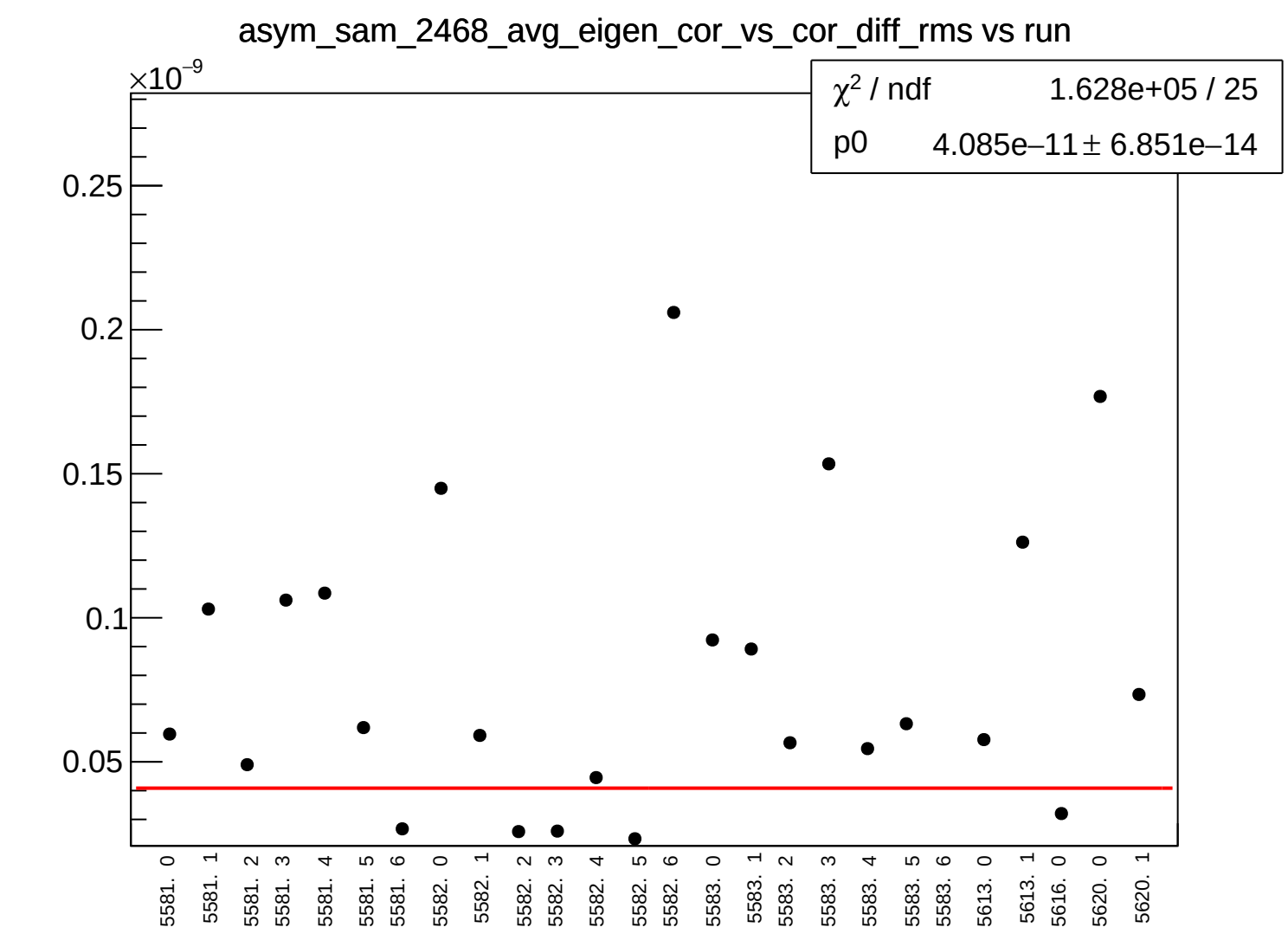

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.025e+05 / 32
p0 80.83 ± 0.1206
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

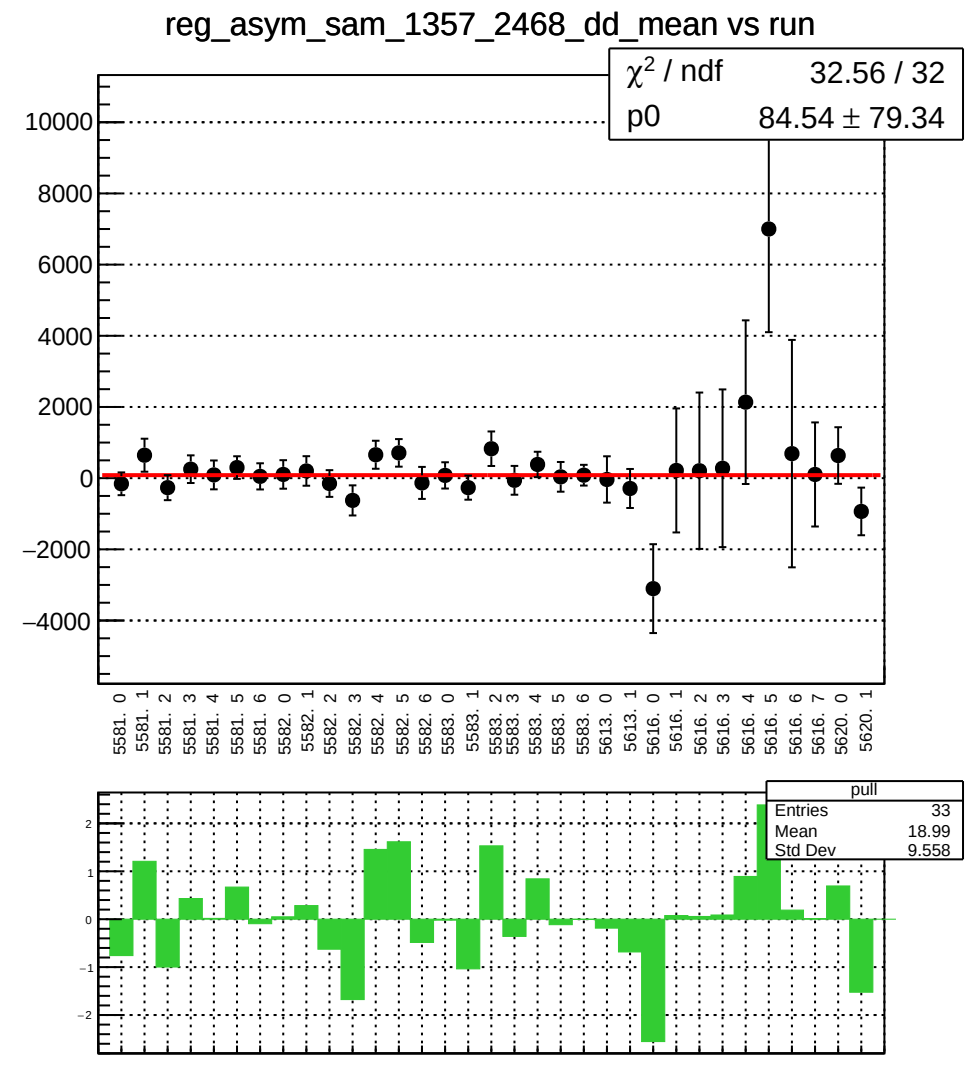

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 23.22 / 32
p0 −0.2275 ± 0.1705
30
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.95
Std Dev 28.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.02492
Std Dev 0.8384
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

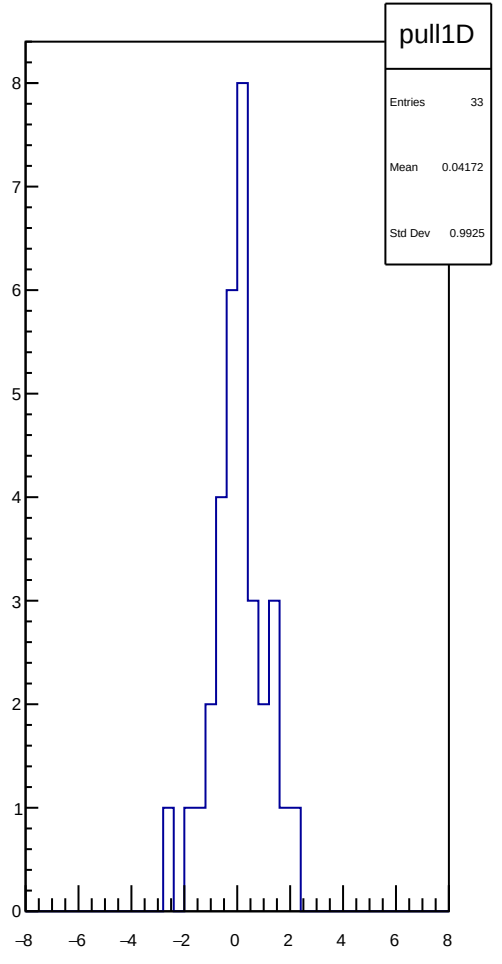

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.025e+05 / 32
p0 80.83 ± 0.1206
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

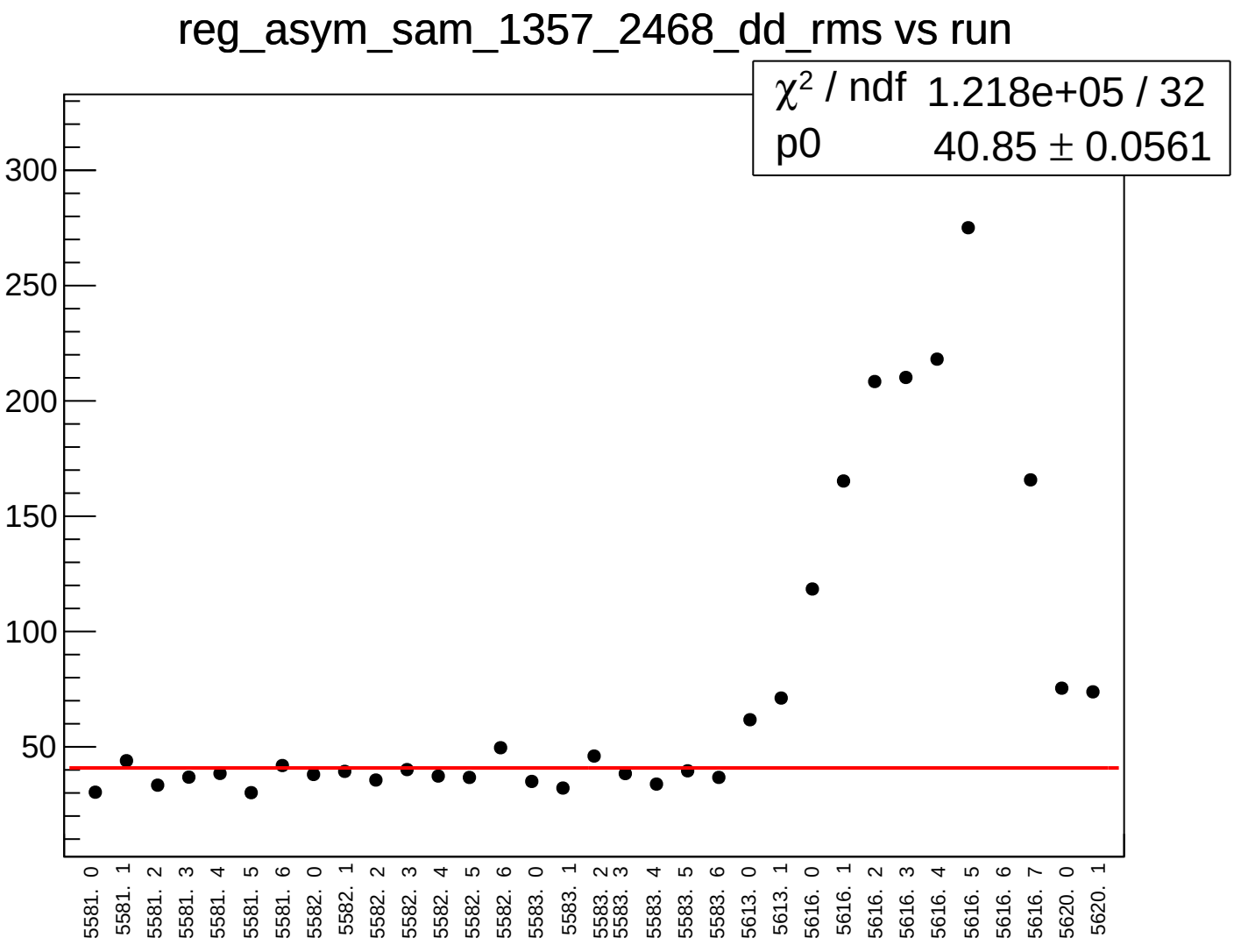

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.81 / 25
p0 −8.735e−14 ± 9.688e−14
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean −24.82
Std Dev 0

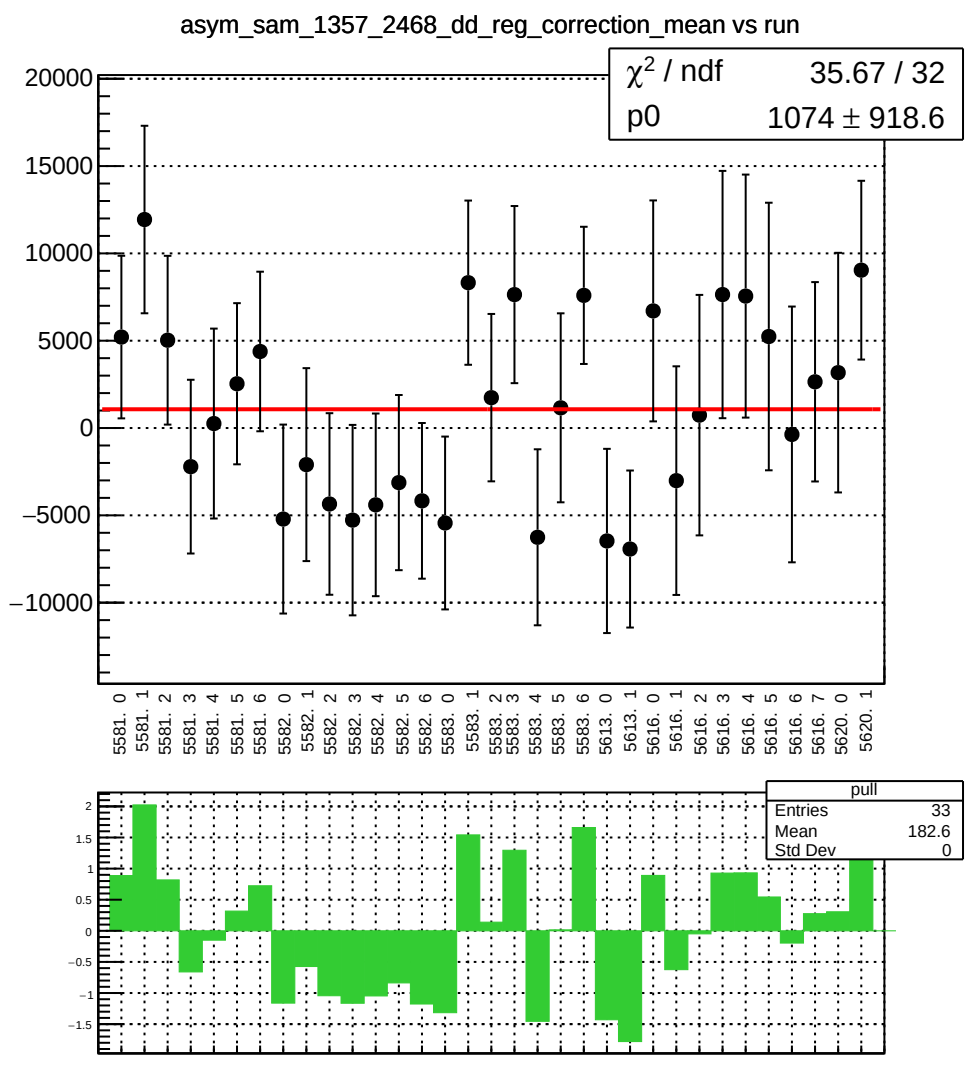

pull1D
Entries 26
Mean −0.02141
Std Dev 0.8726

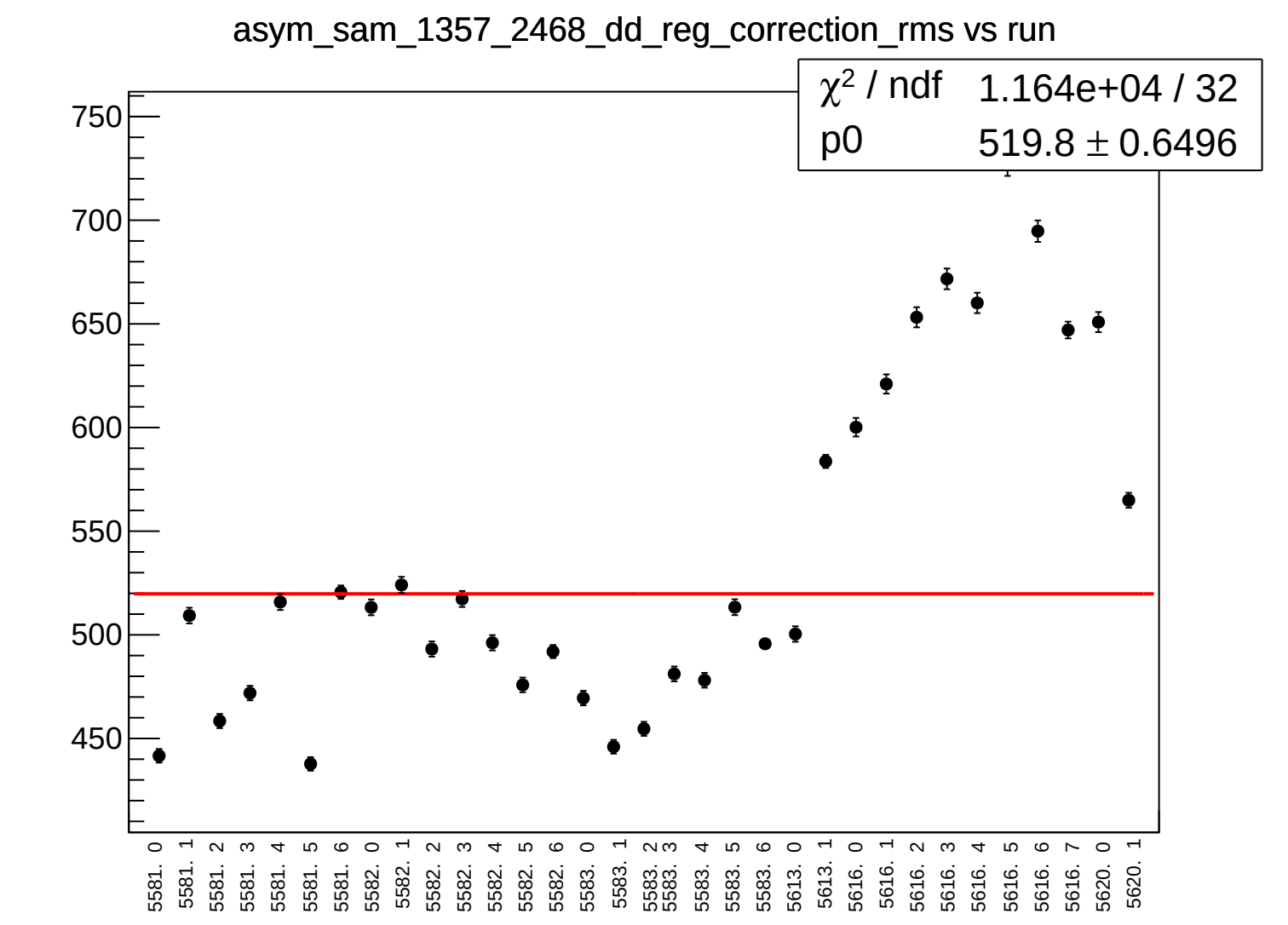

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.628e+05 / 25
p0 4.085e−11 ± 6.851e−14
0.25
0.2
0.15
0.1
0.05
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

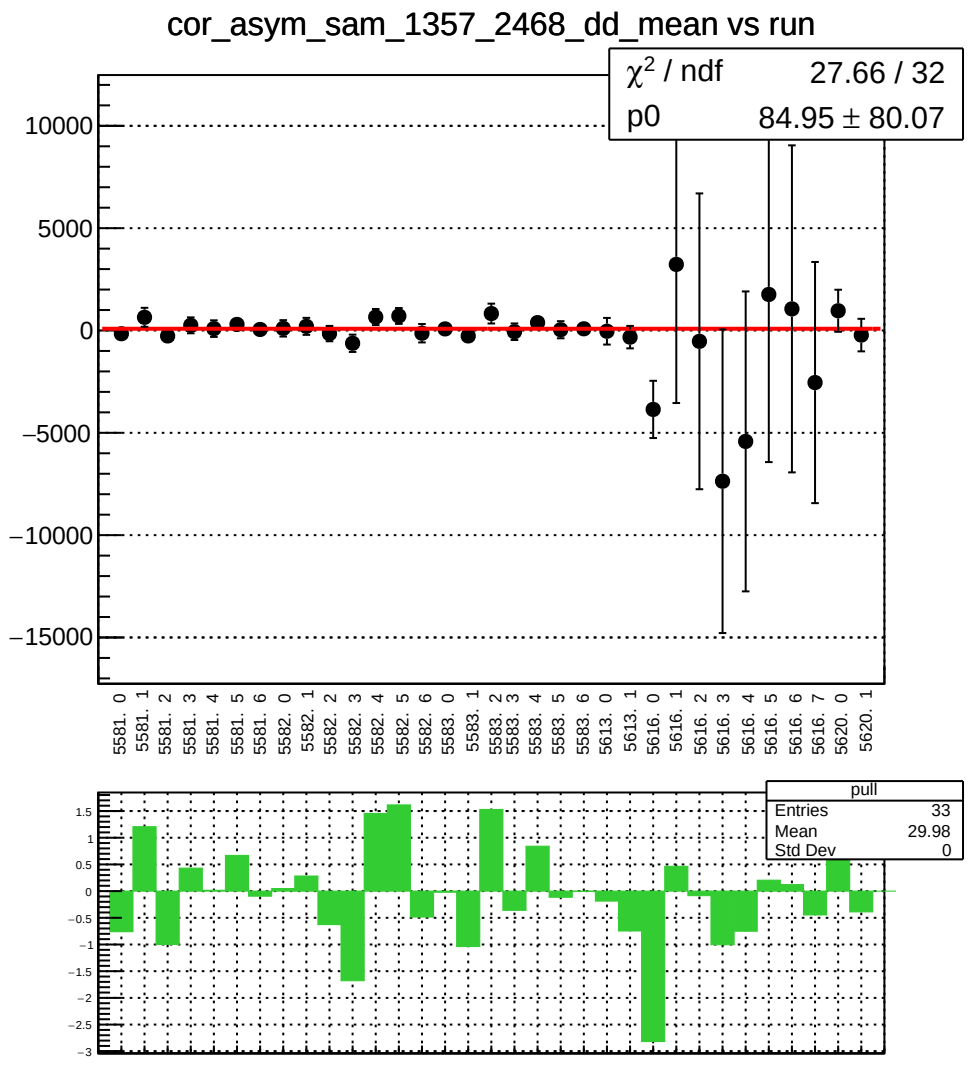

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 32.56 / 32
p0 84.54 ± 79.34
10000
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.99
Std Dev 9.558
2
1
0
−1
−2

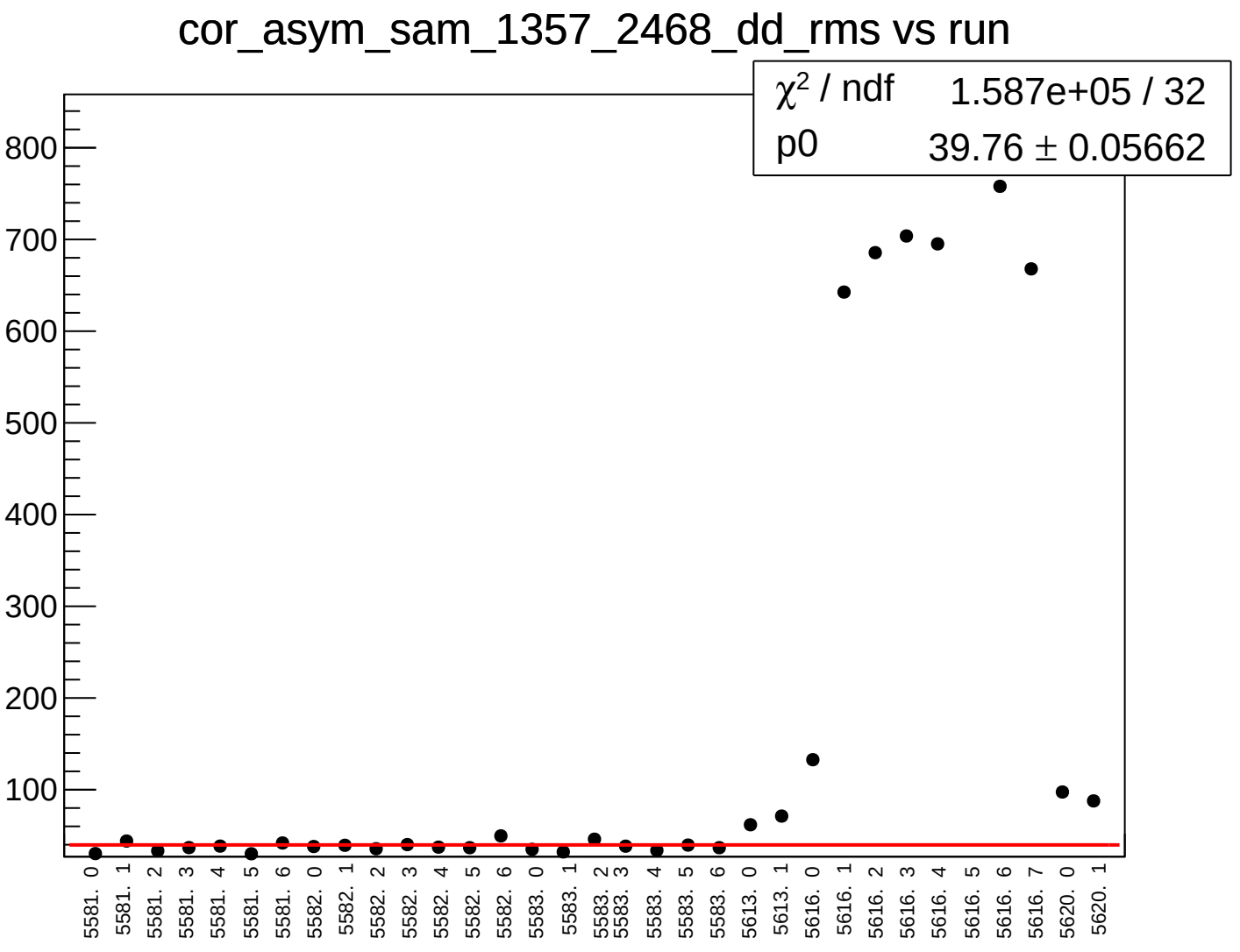

pull1D
Entries 33
Mean 0.04172
Std Dev 0.9925
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

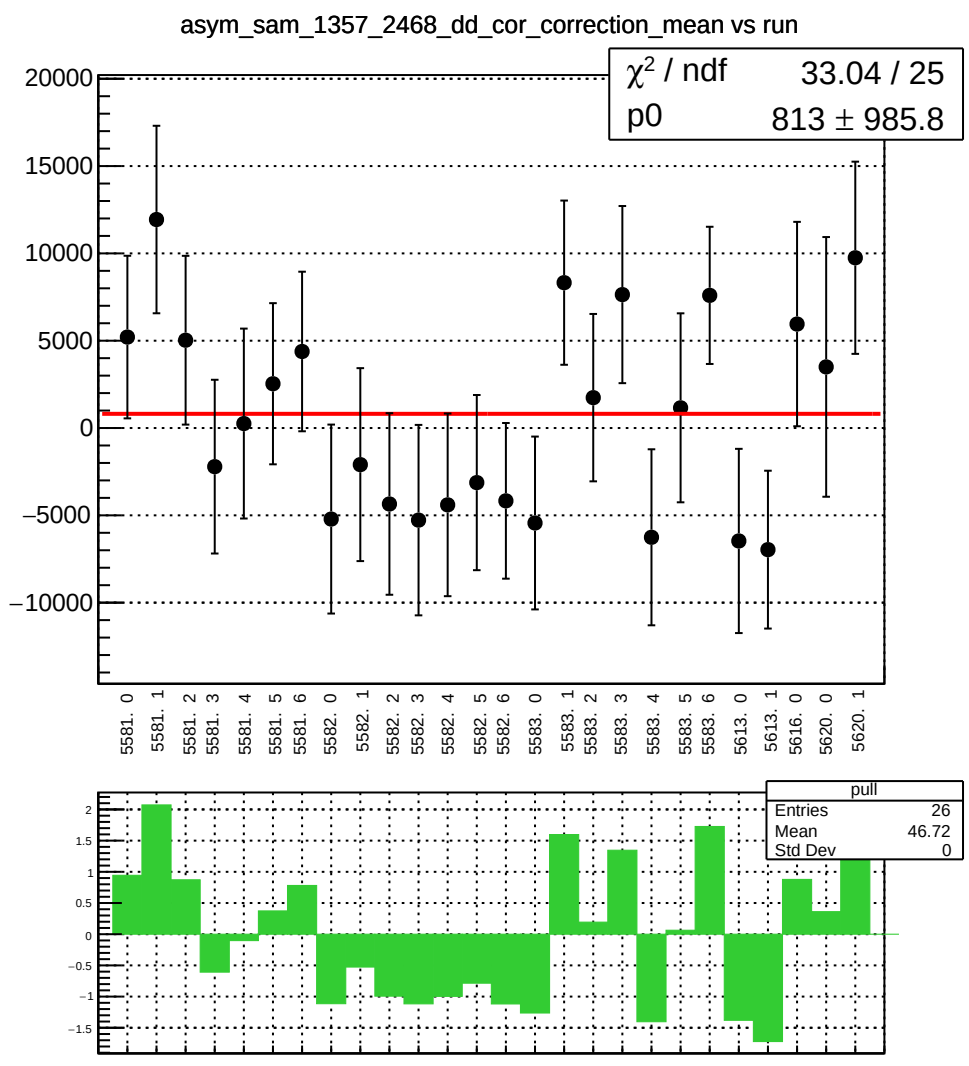

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.218e+05 / 32
p0 40.85 ± 0.0561
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

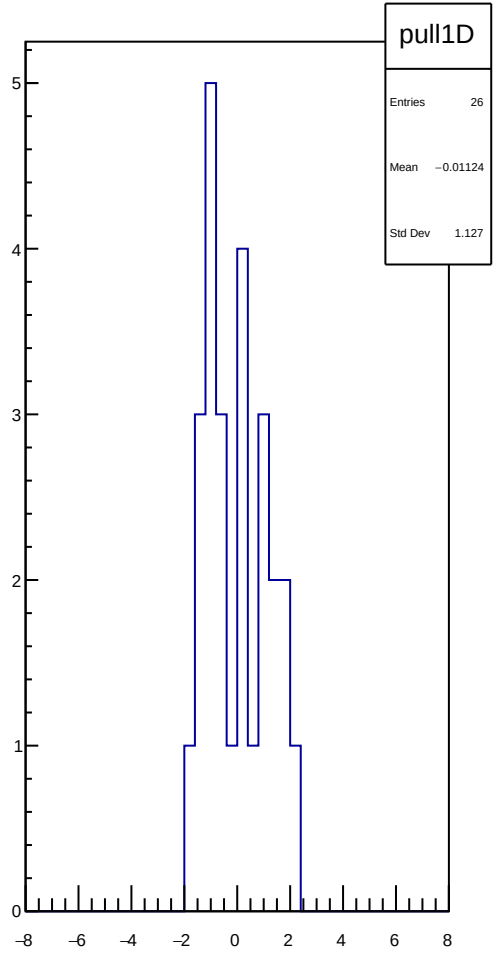

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 35.67 / 32
p0 1074 ± 918.6
20000
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 182.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.005668
Std Dev 1.04
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

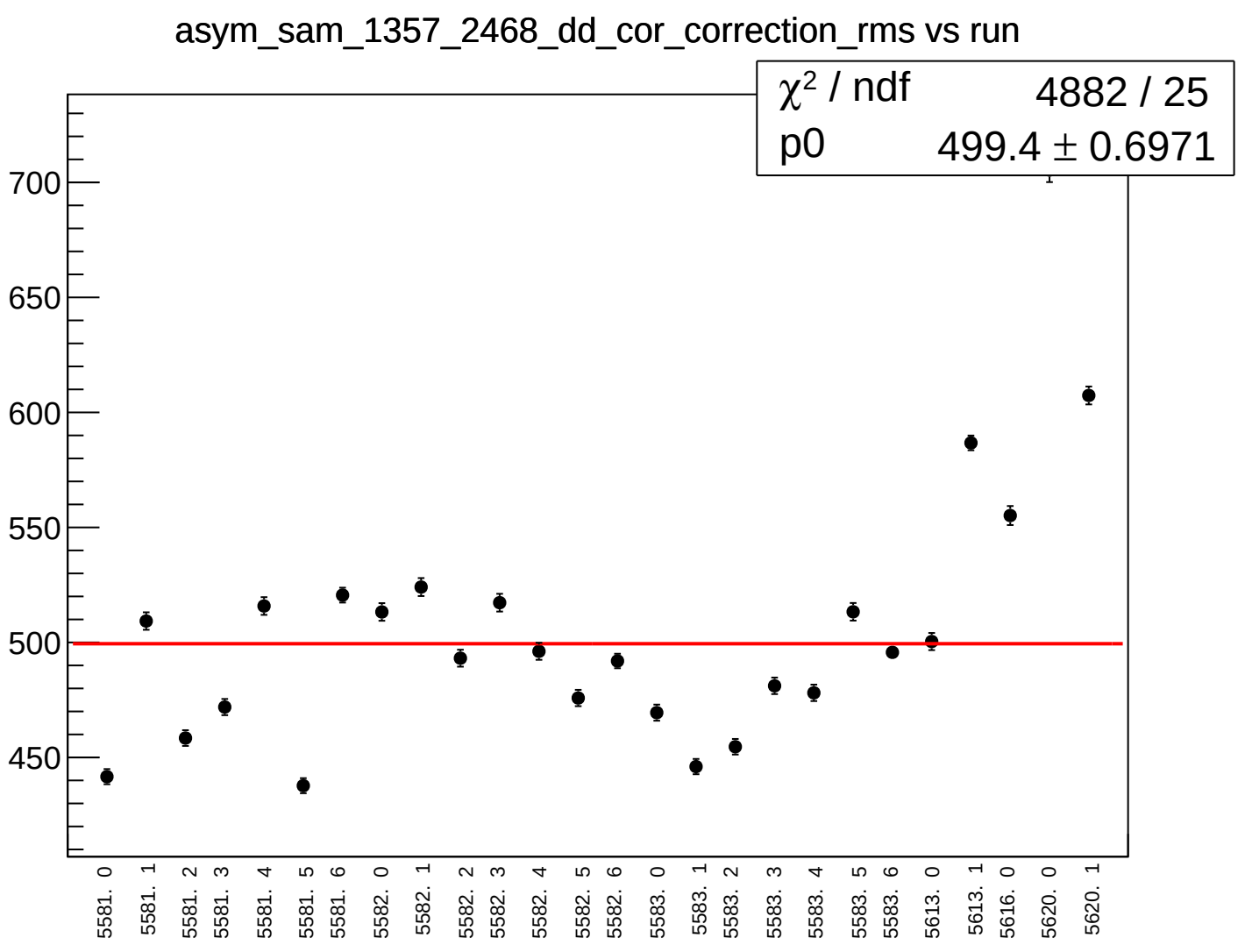

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.164e+04 / 32
p0 519.8 ± 0.6496
750
700
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

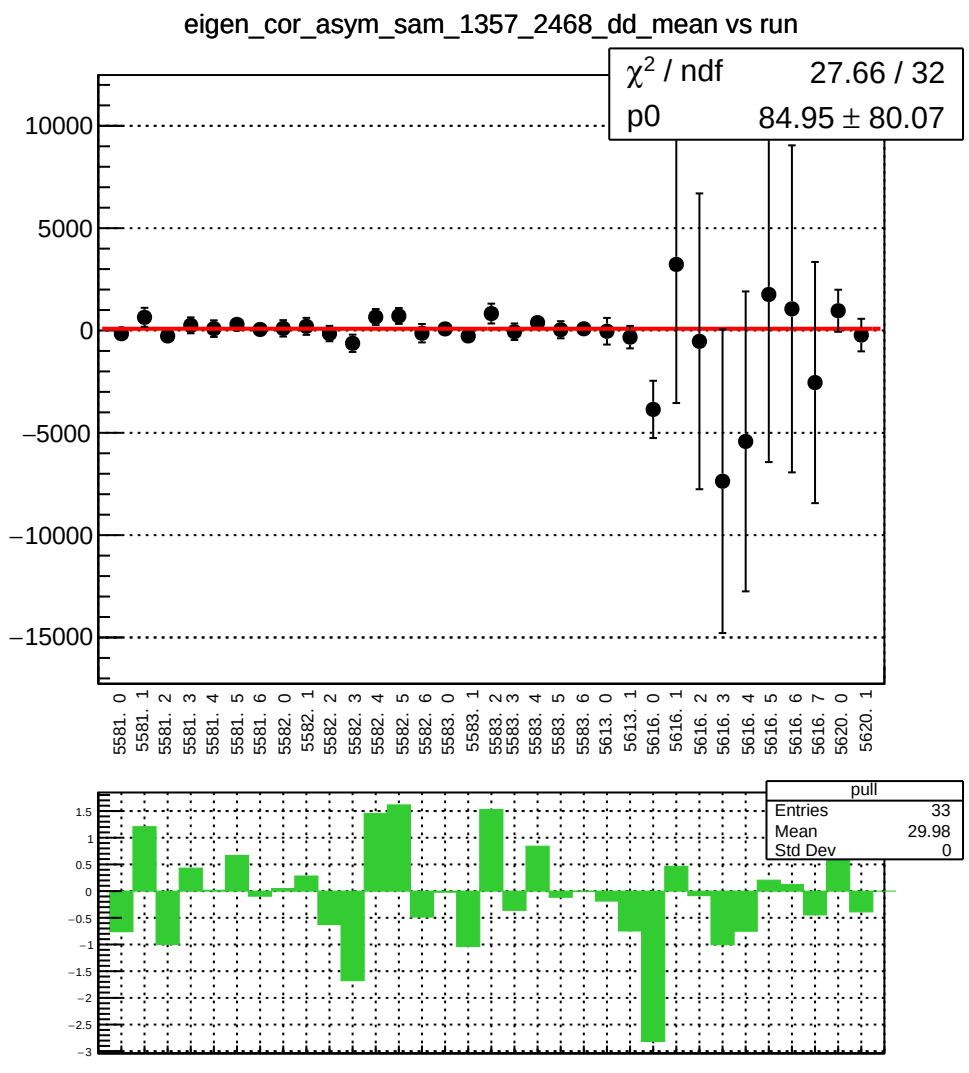

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 27.66 / 32
p0 84.95 ± 80.07
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.98
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 33
Mean −0.08704
Std Dev 0.9114
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

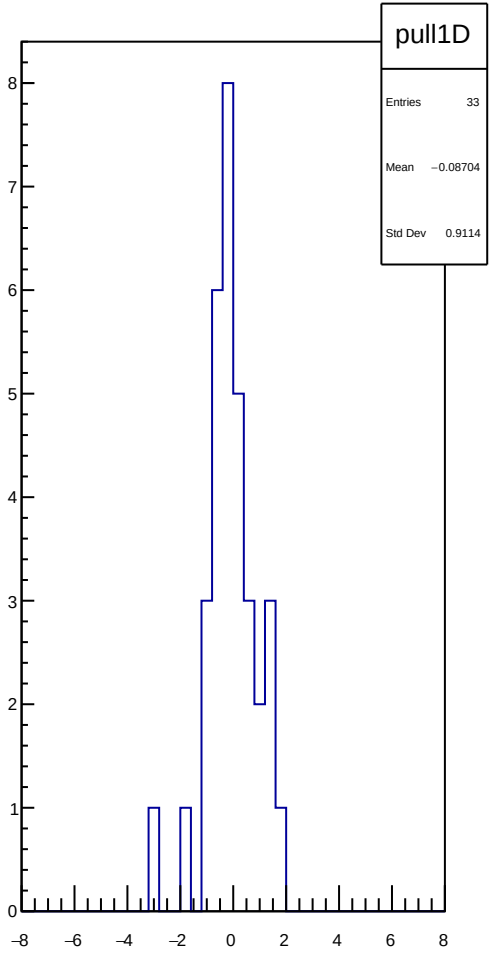

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.587e+05 / 32
p0 39.76 ± 0.05662
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

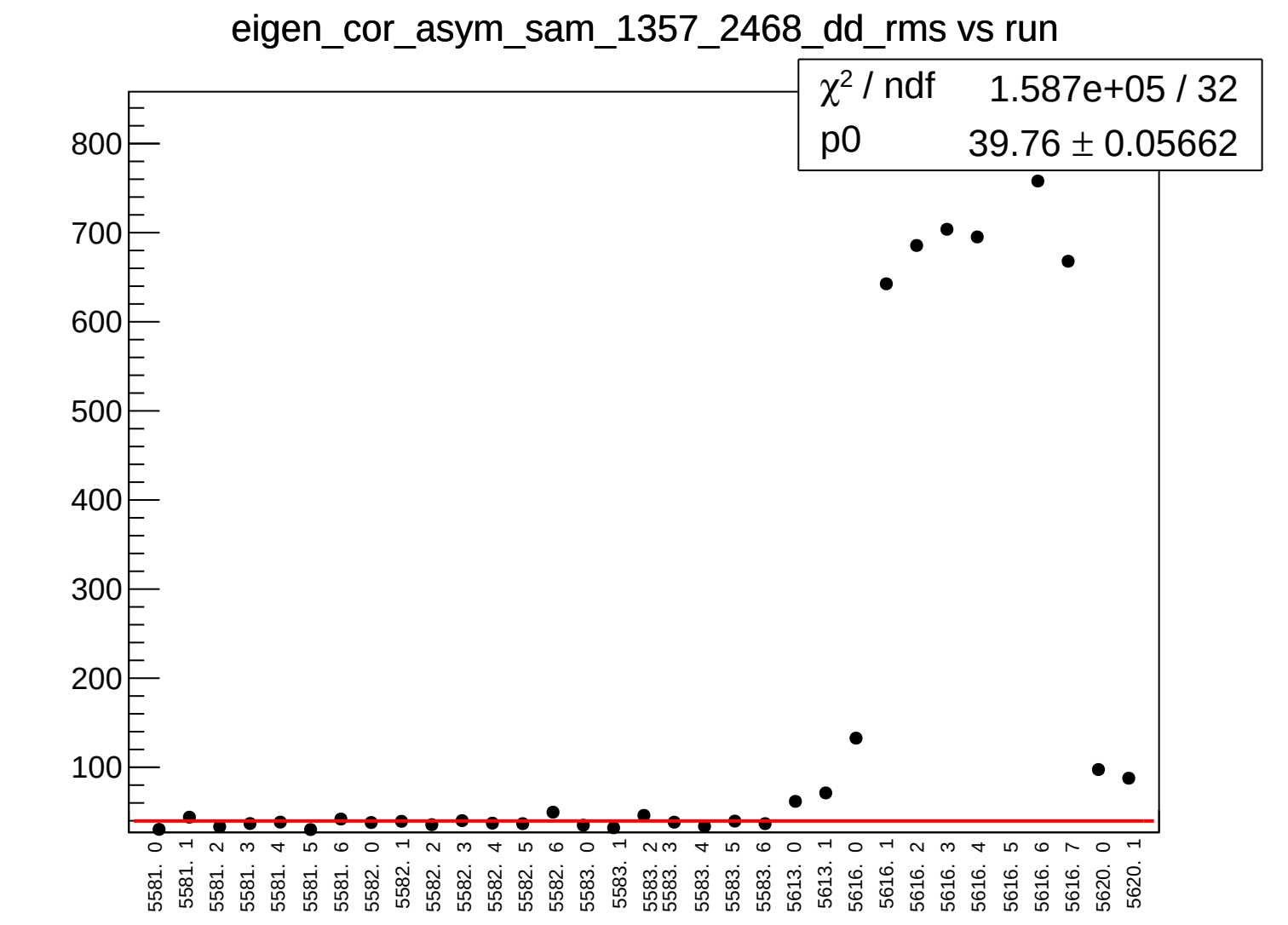

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 33.04 / 25
p0 813 ± 985.8
20000
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 46.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

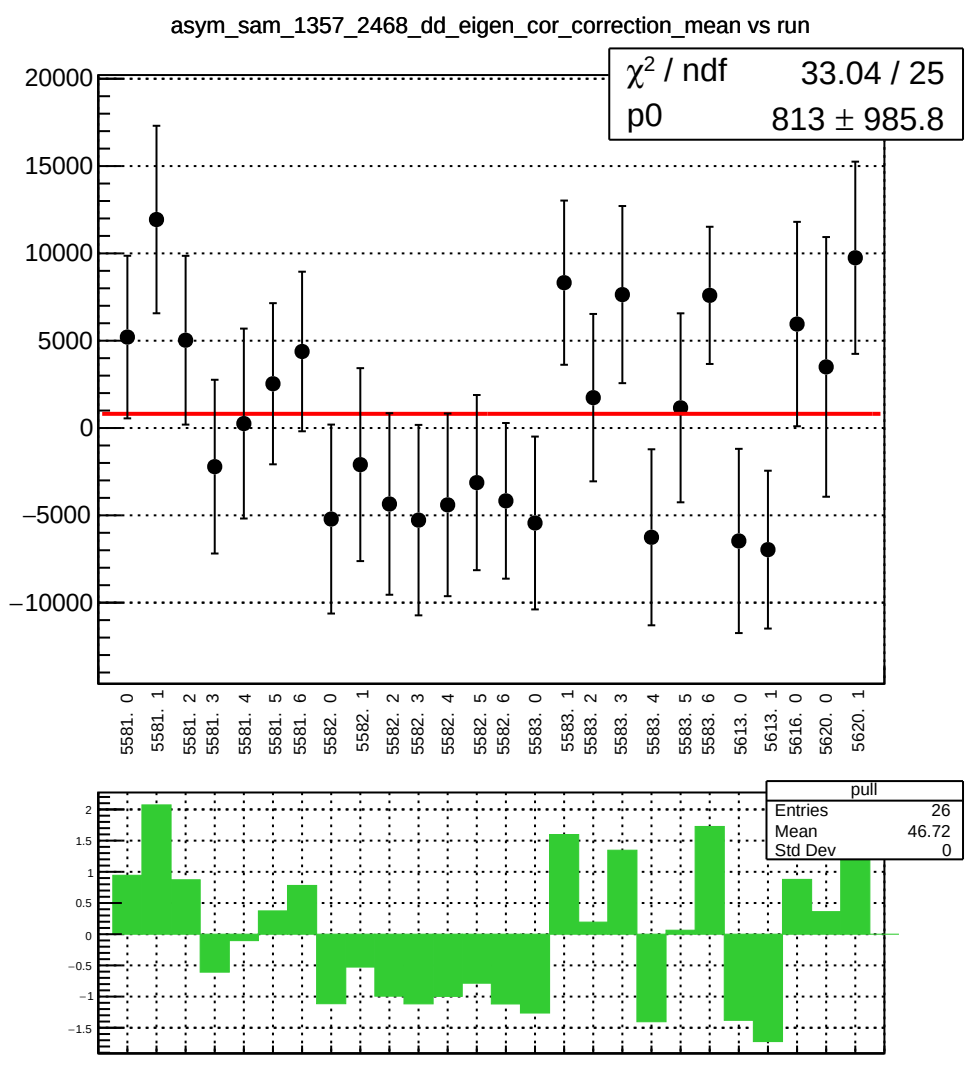

pull1D
Entries 26
Mean −0.01124
Std Dev 1.127
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

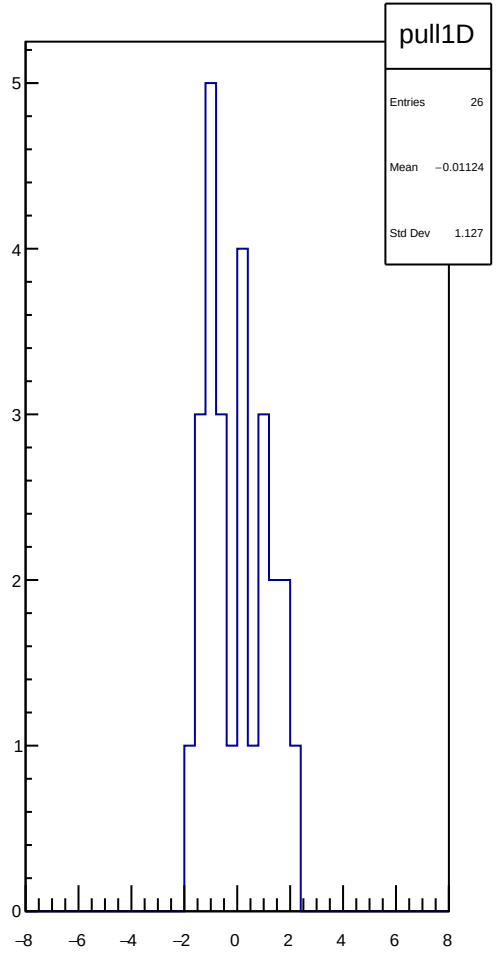

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 4882 / 25
p0 499.4 ± 0.6971
700
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

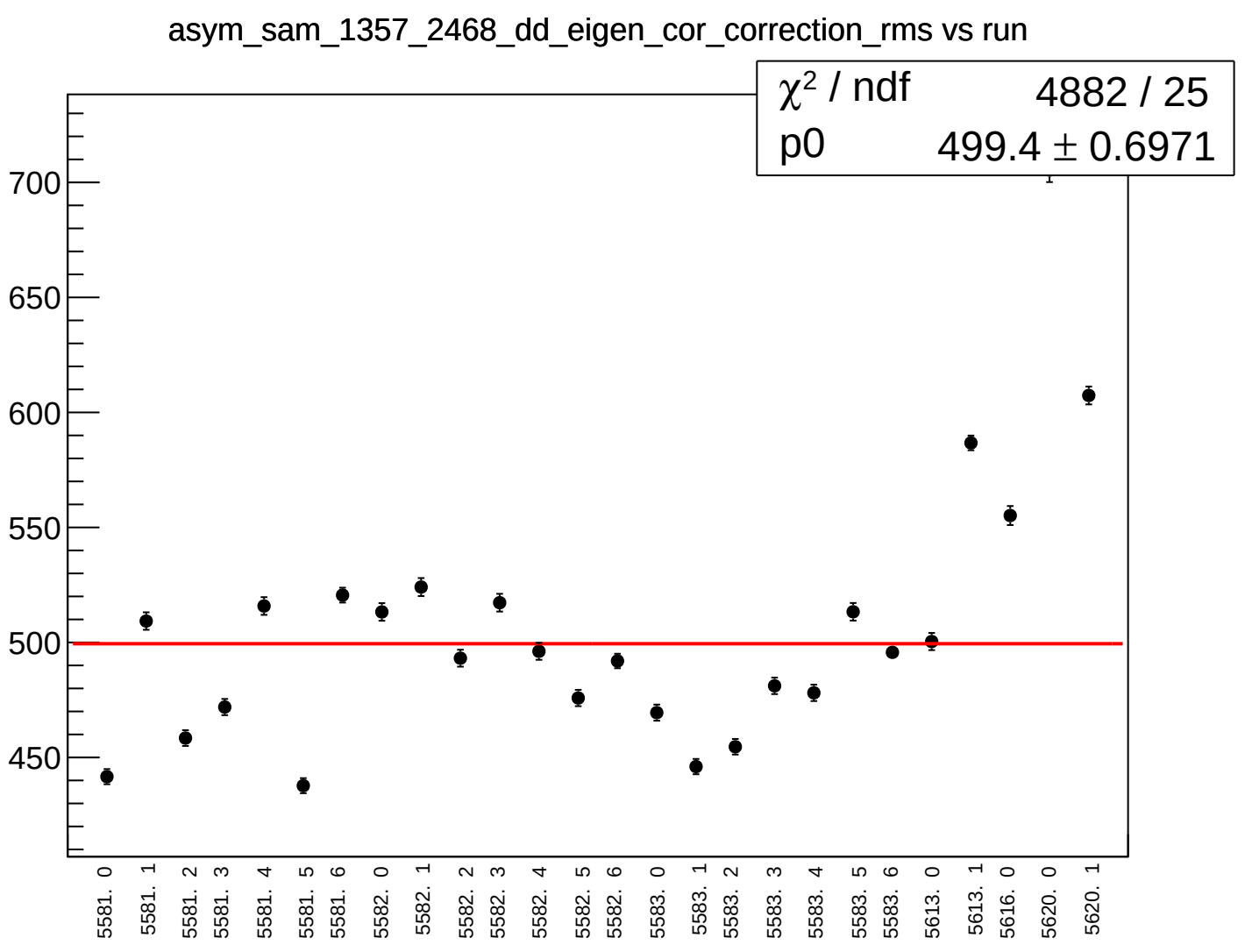

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 27.66 / 32
p0 84.95 ± 80.07
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.98
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

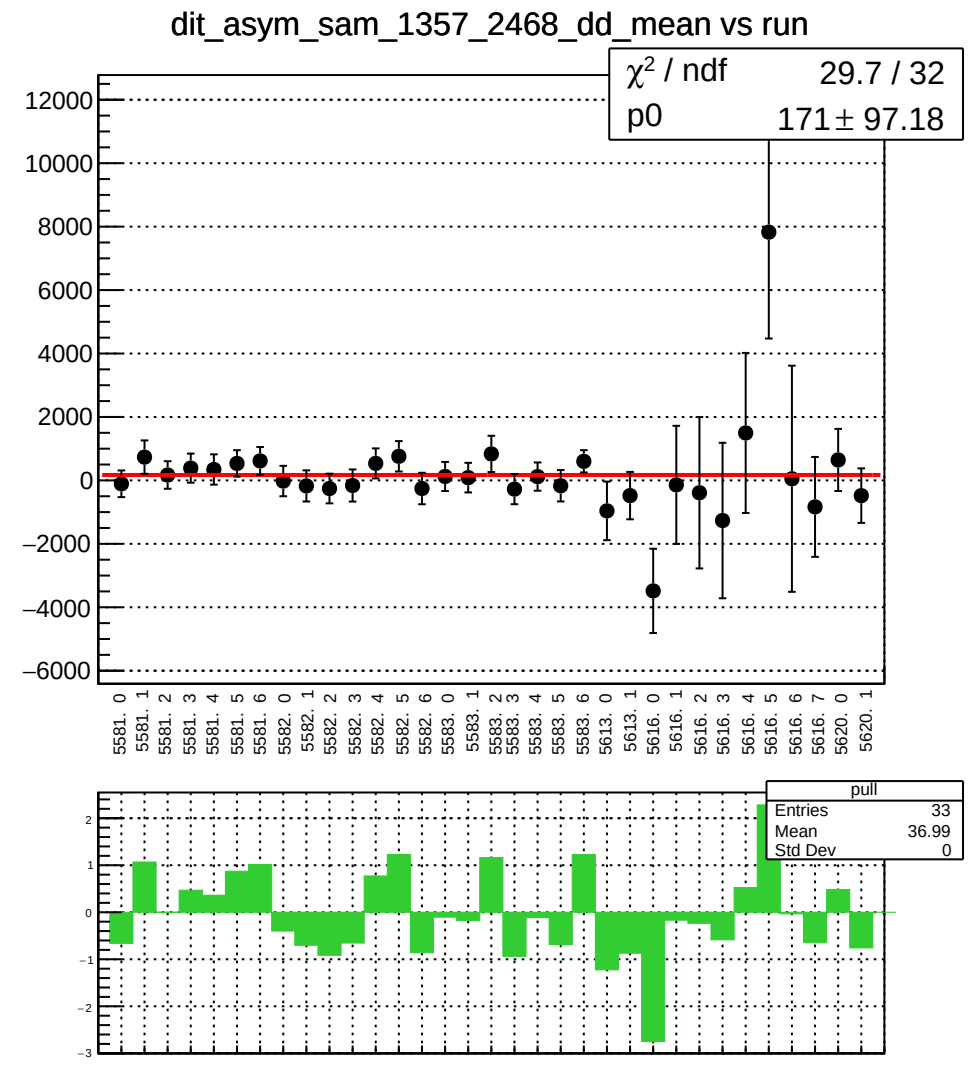

pull1D
Entries 33
Mean −0.08704
Std Dev 0.9114
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

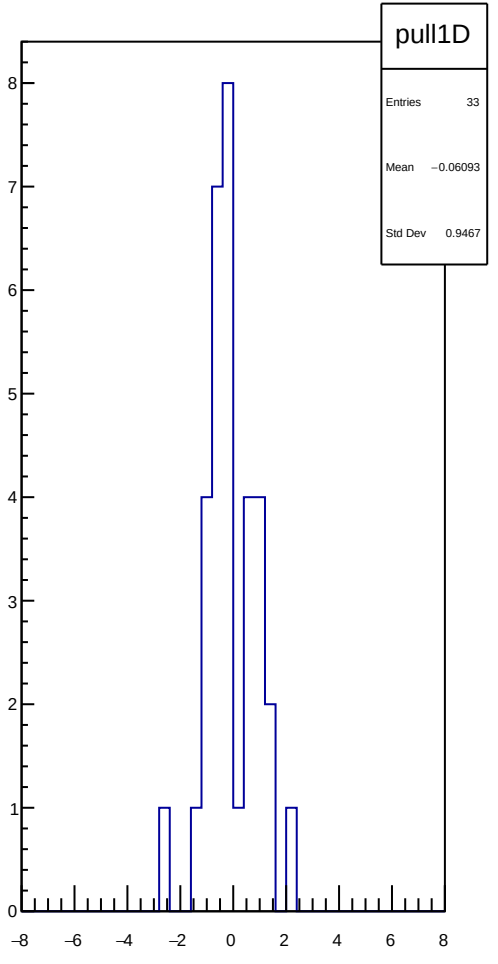

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.587e+05 / 32
p0 39.76 ± 0.05662
800
700
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

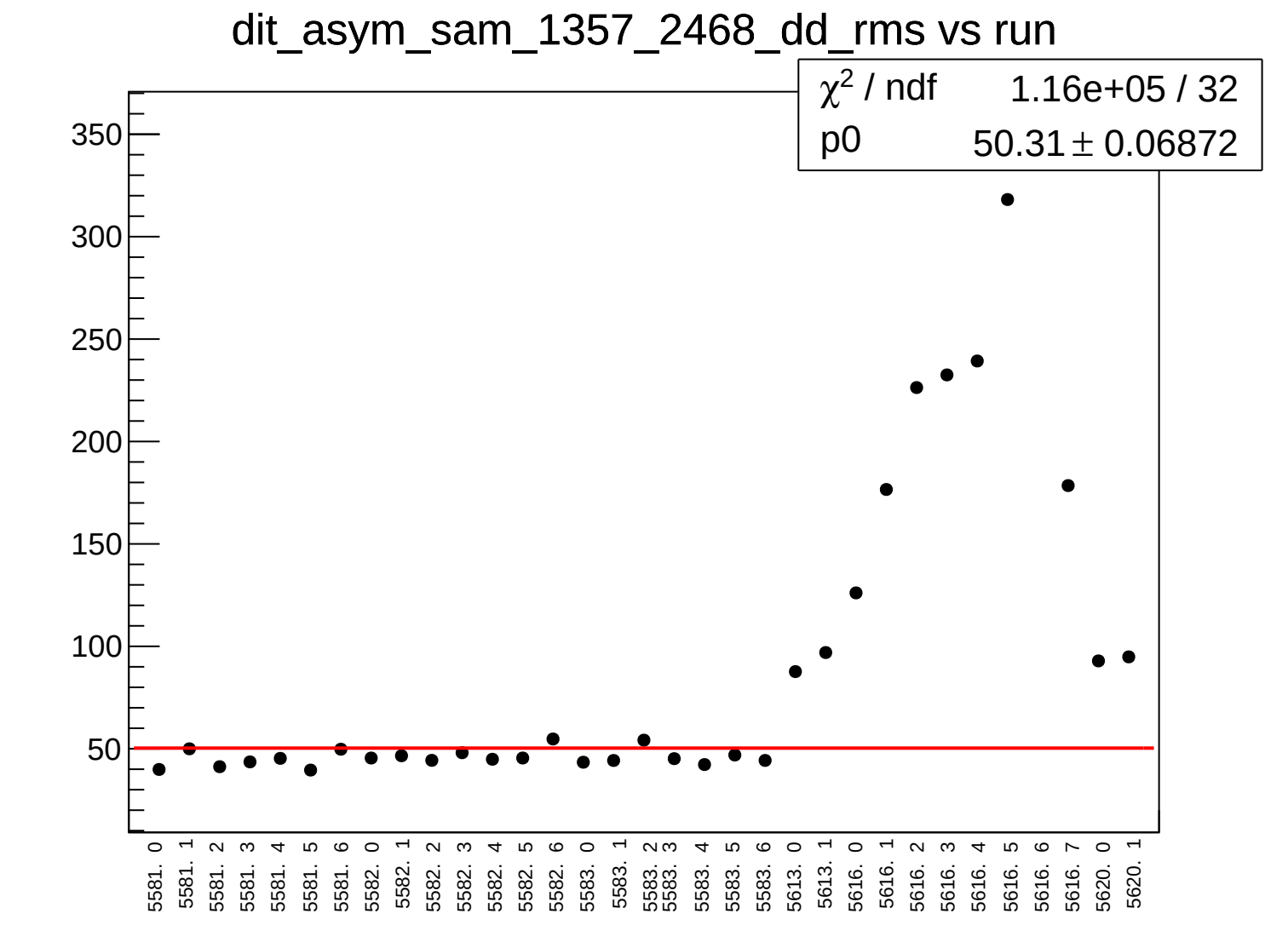

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 33.04 / 25
p0 813 ± 985.8
20000
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 46.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

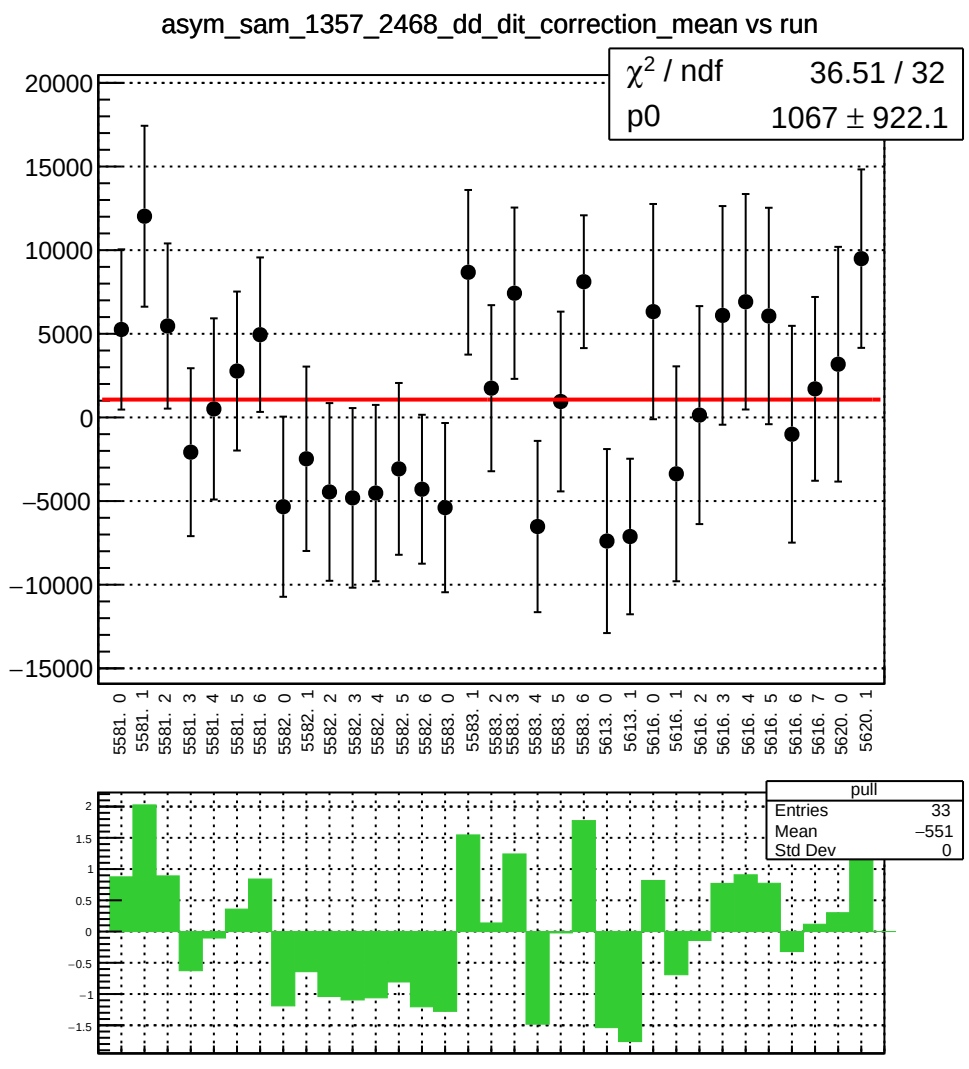

pull1D
Entries 26
Mean −0.01124
Std Dev 1.127
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

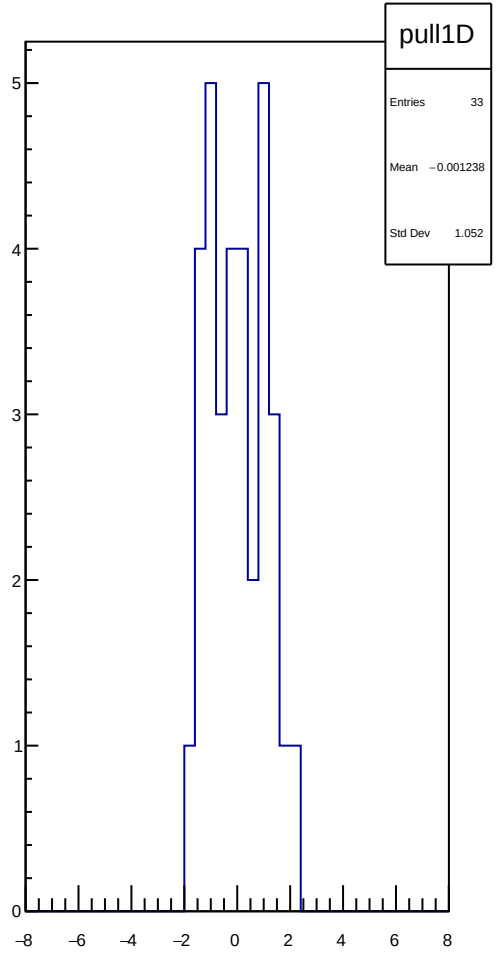

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 4882 / 25
p0 499.4 ± 0.6971
700
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

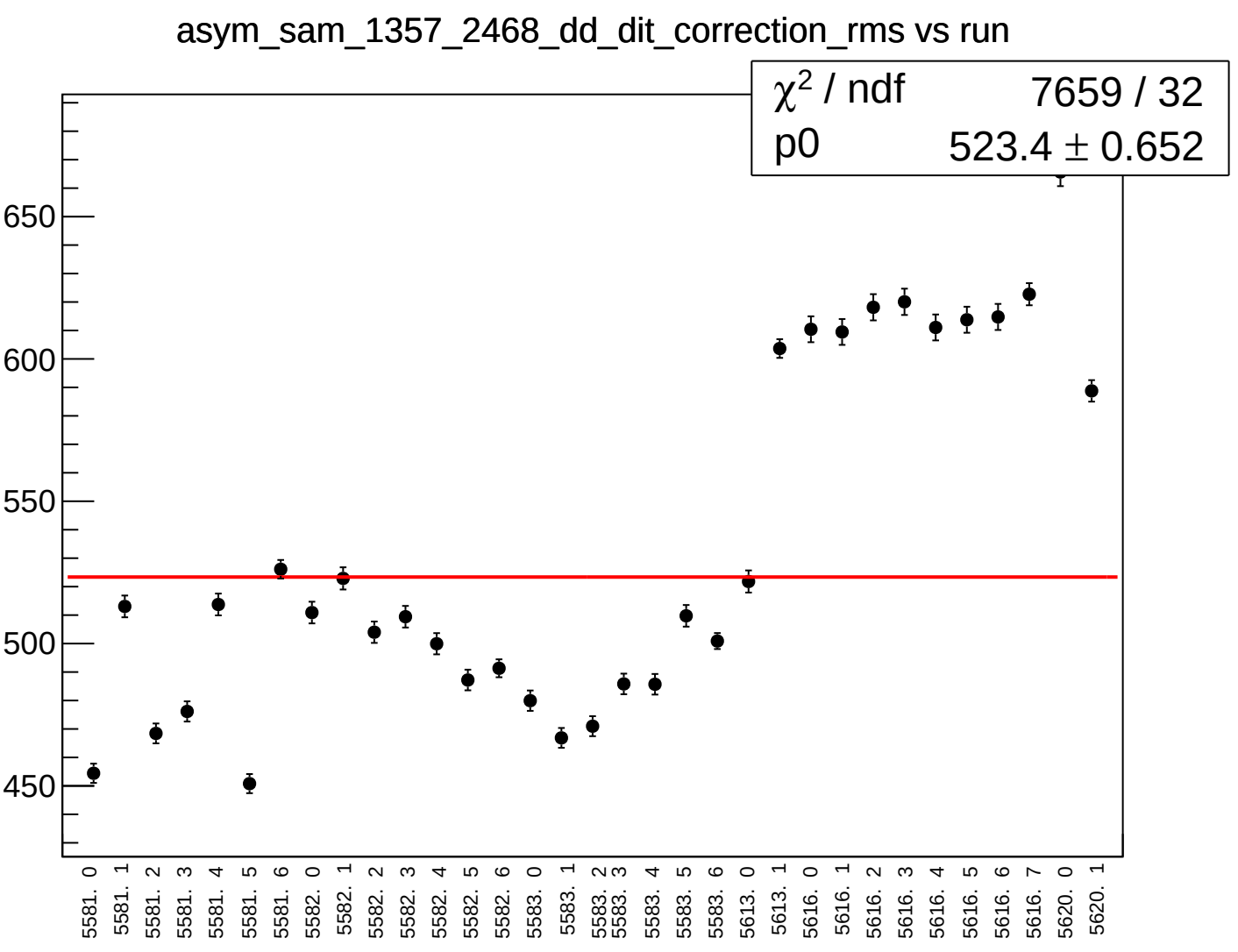

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 29.7 / 32
p0 171 ± 97.18
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.99
Std Dev 0
2
1
0
−1
−2
−3

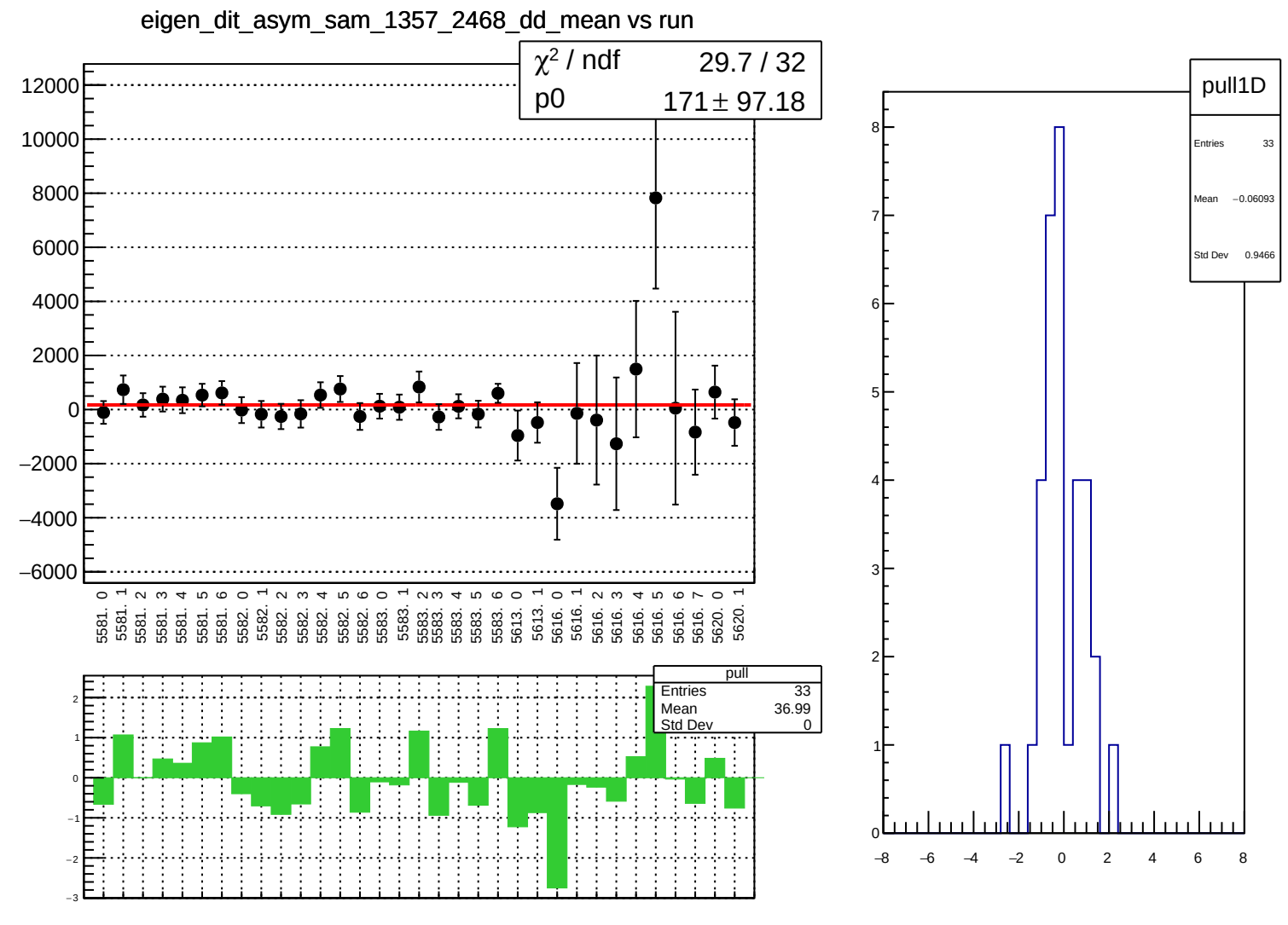

pull1D
Entries 33
Mean −0.06093
Std Dev 0.9467
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

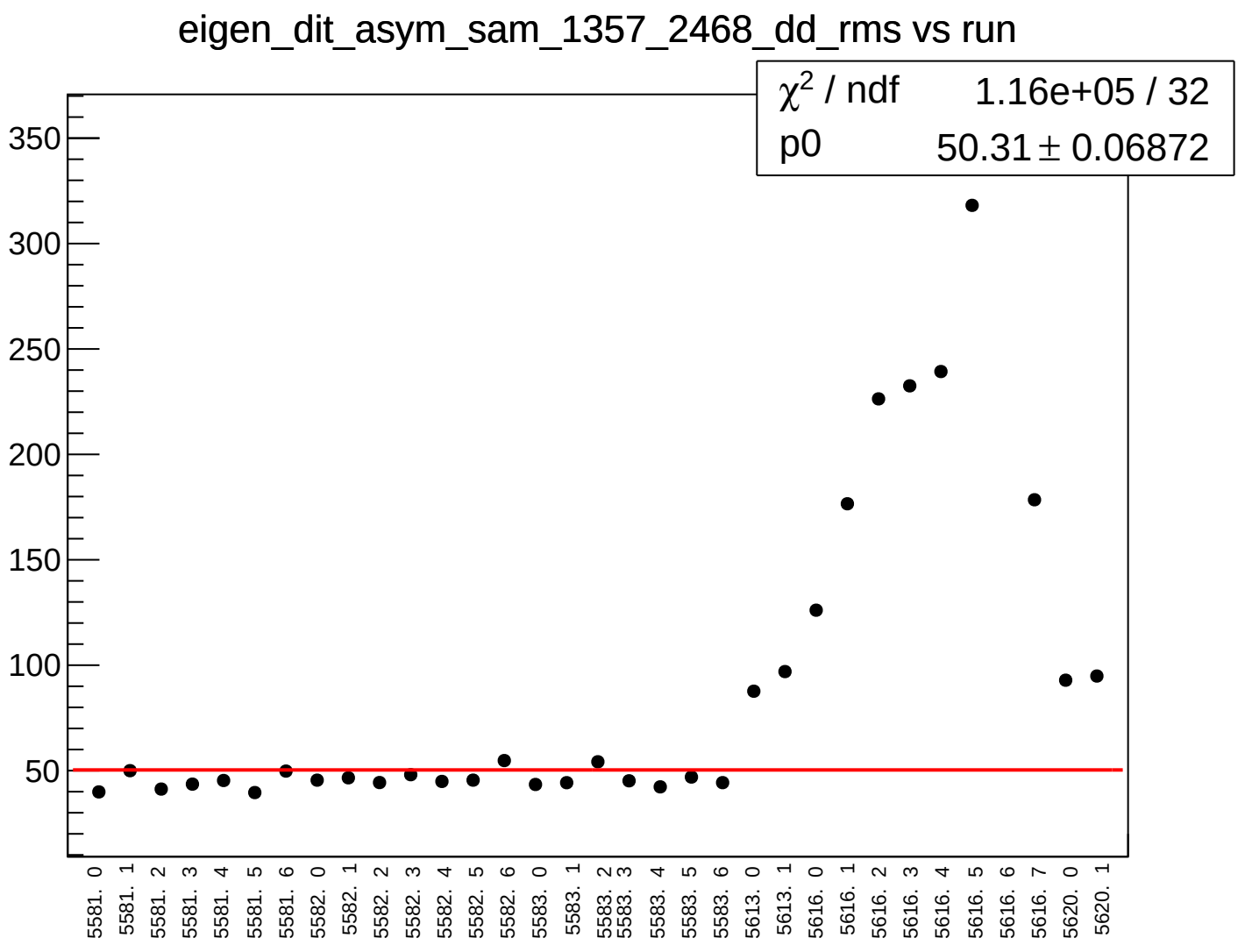

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.16e+05 / 32
p0 50.31 ± 0.06872
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

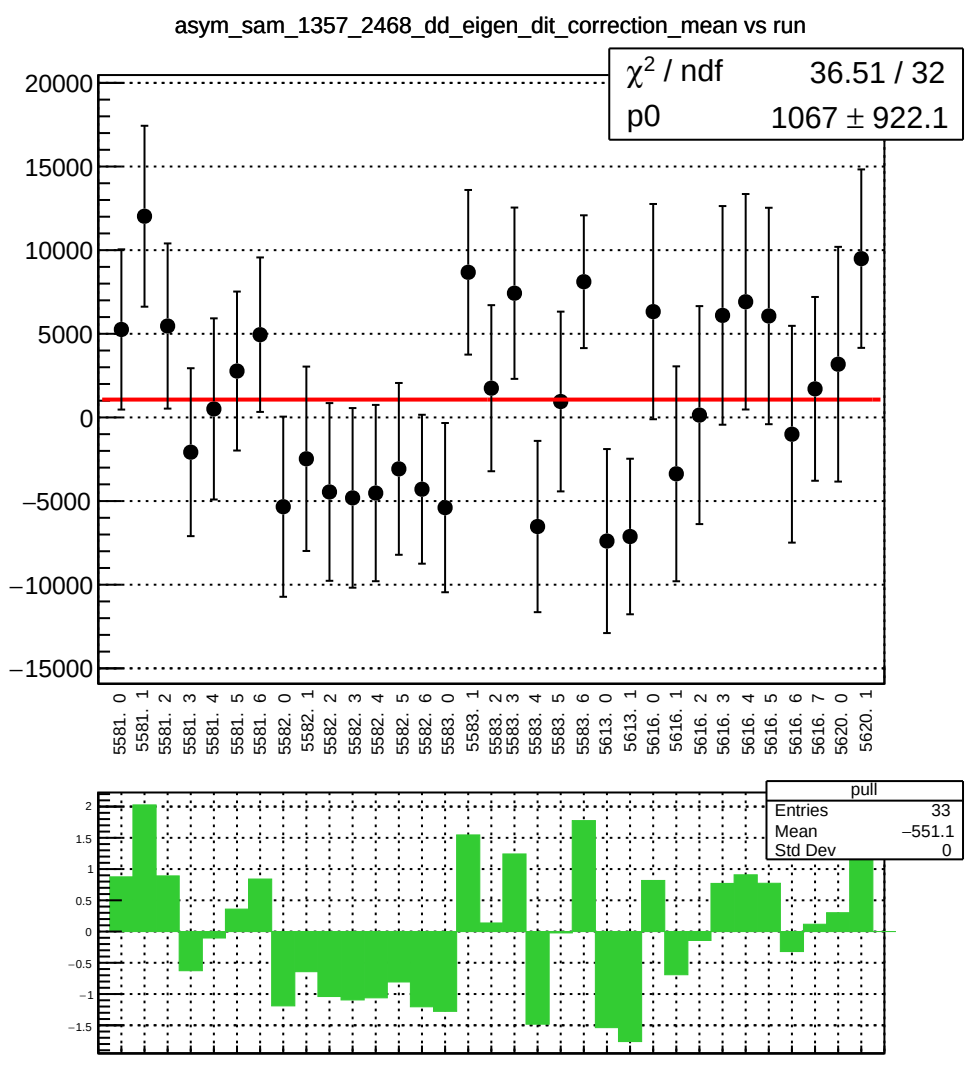

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 36.51 / 32
p0 1067 ± 922.1
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −551
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

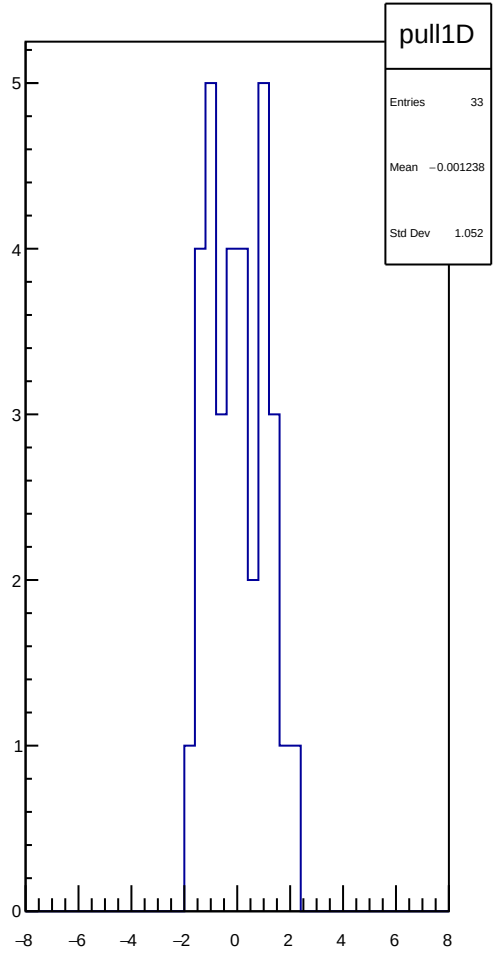

pull1D
Entries 33
Mean −0.001238
Std Dev 1.052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

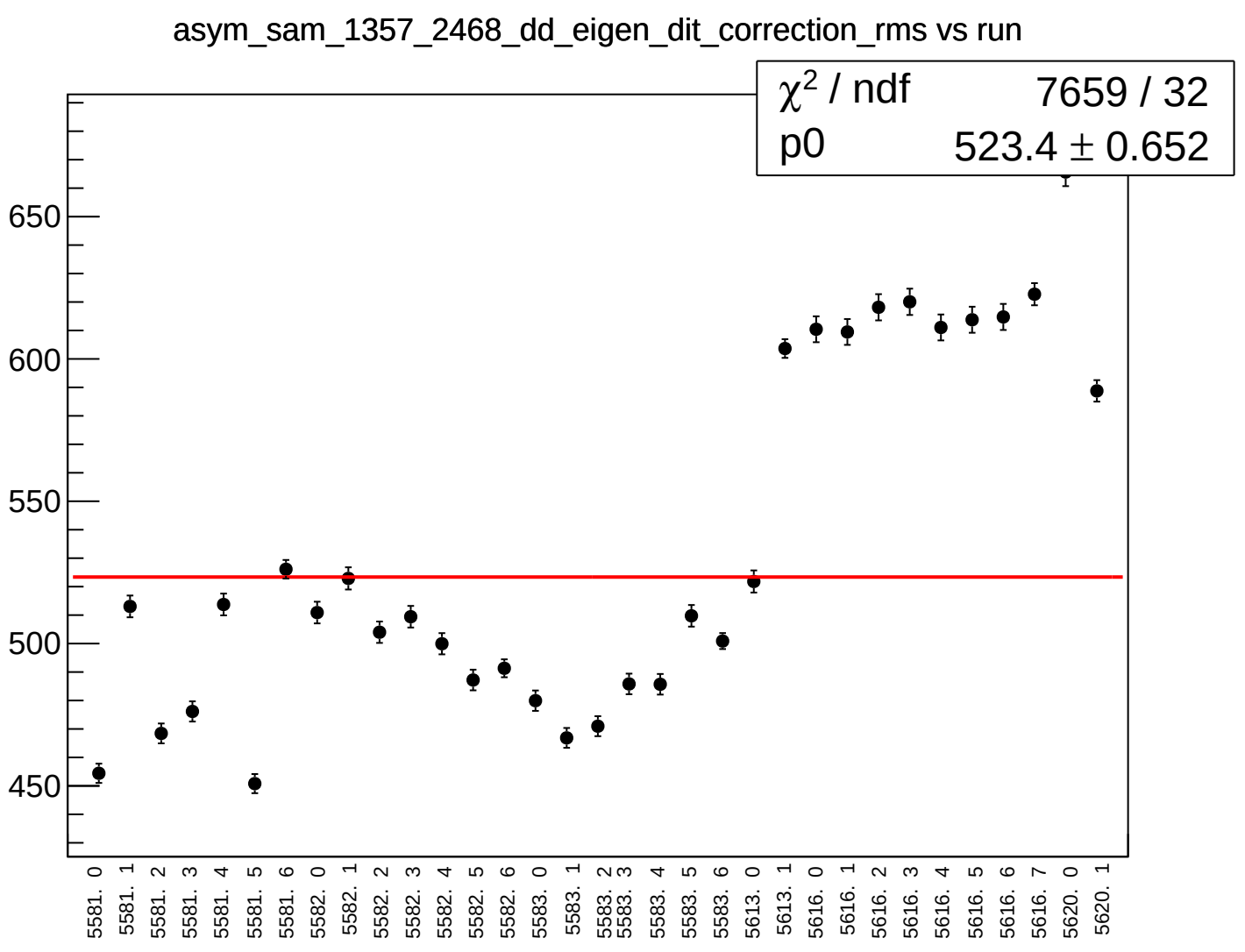

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 7659 / 32
p0 523.4 ± 0.652
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

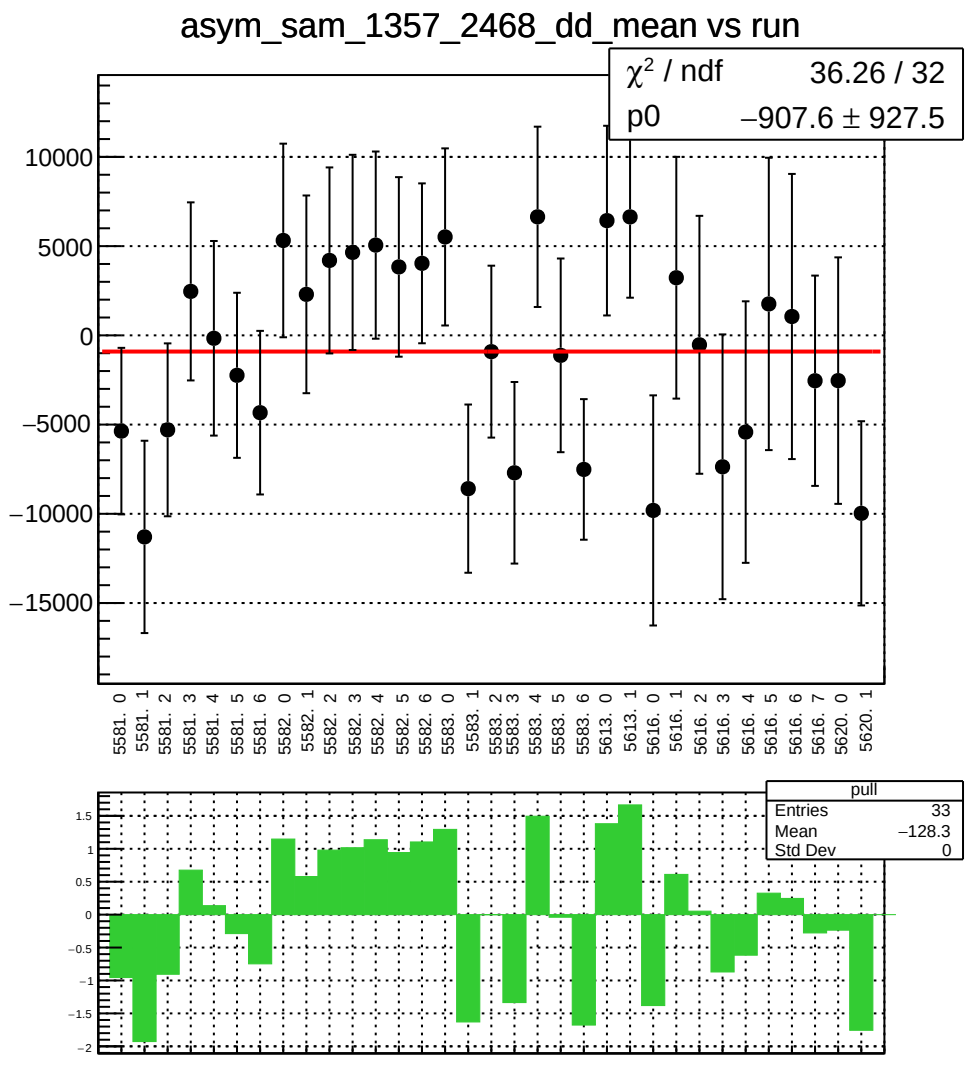

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 29.7 / 32
p0 171 ± 97.18
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.99
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean −0.06093
Std Dev 0.9466
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

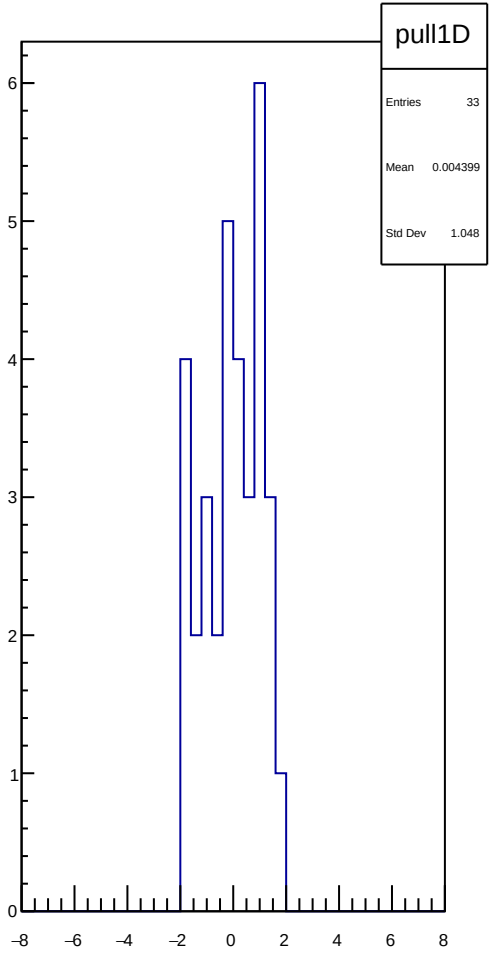

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.16e+05 / 32
p0 50.31 ± 0.06872
350
300
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

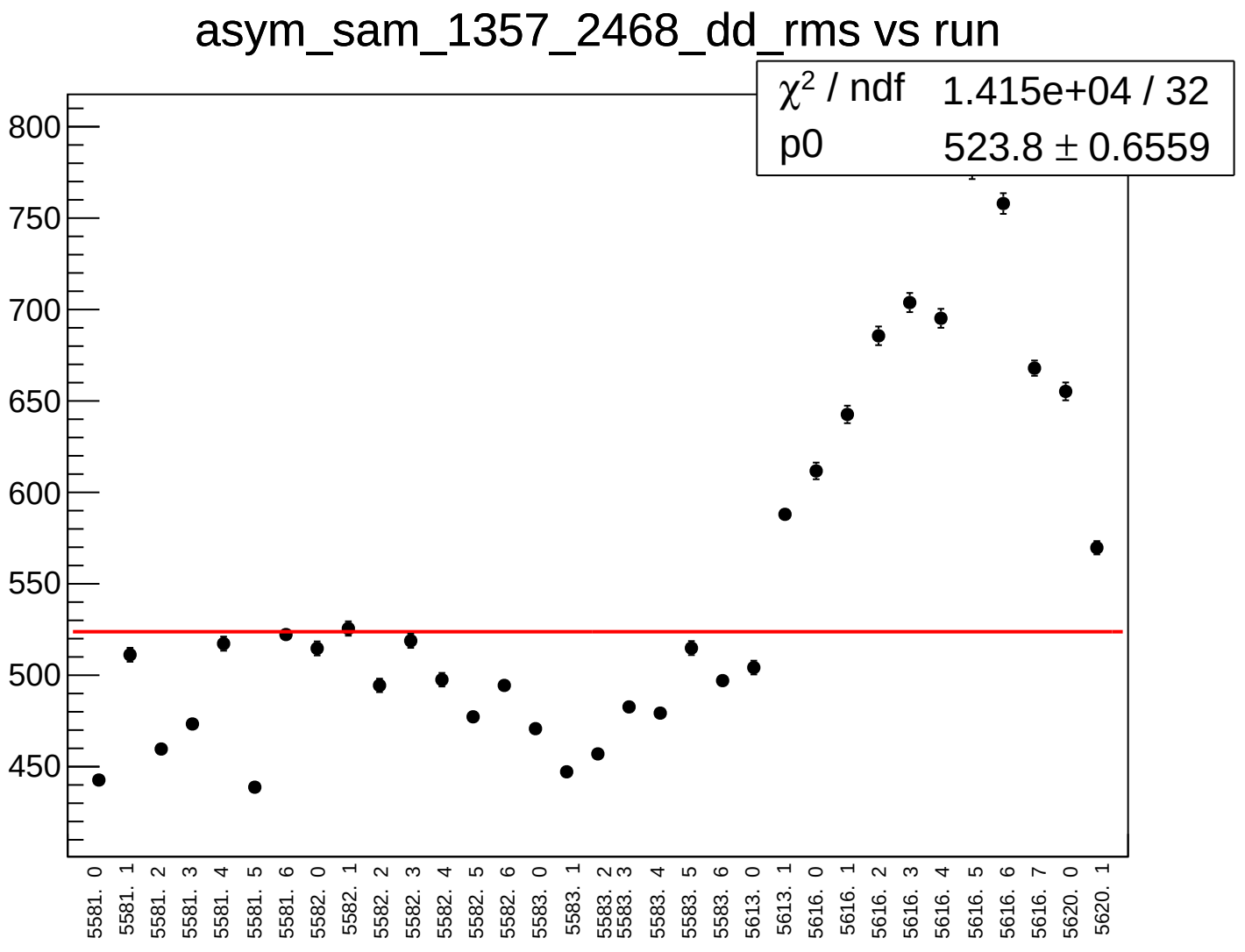

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 36.51 / 32
p0 1067 ± 922.1
20000
15000
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −551.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

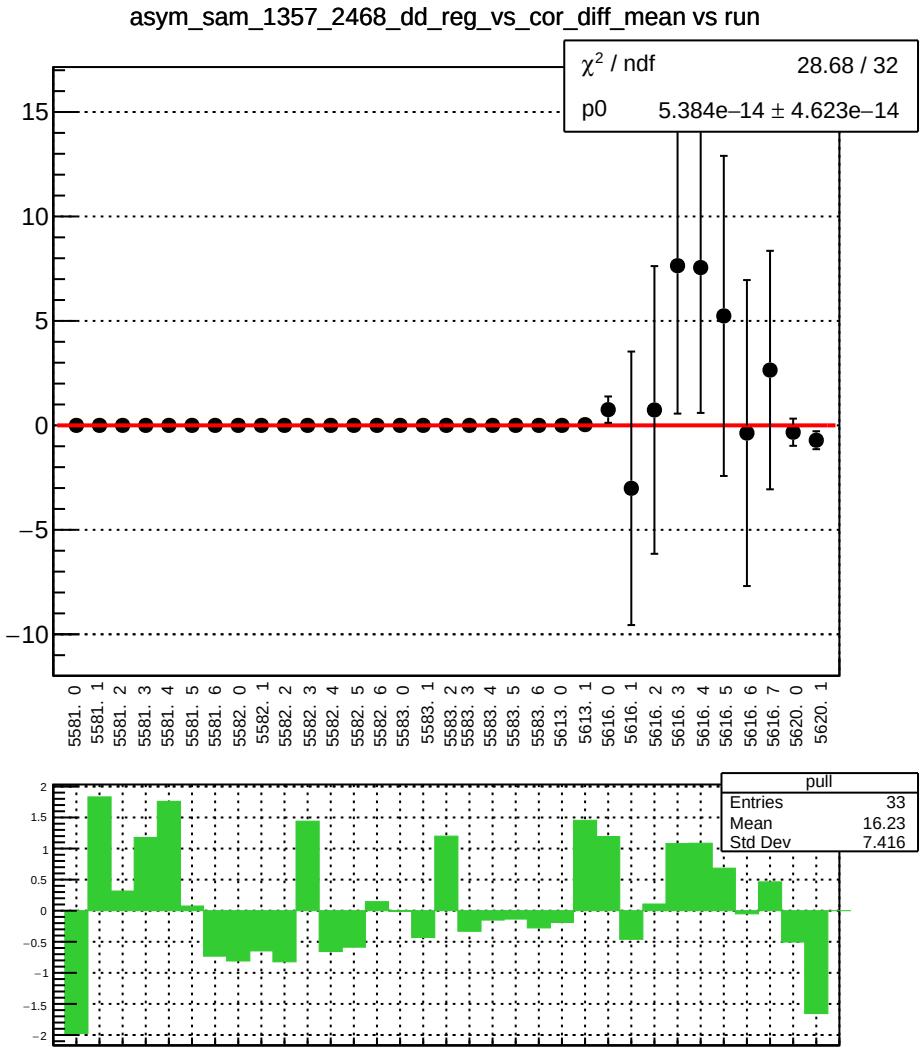

pull1D
Entries 33
Mean −0.001238
Std Dev 1.052
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

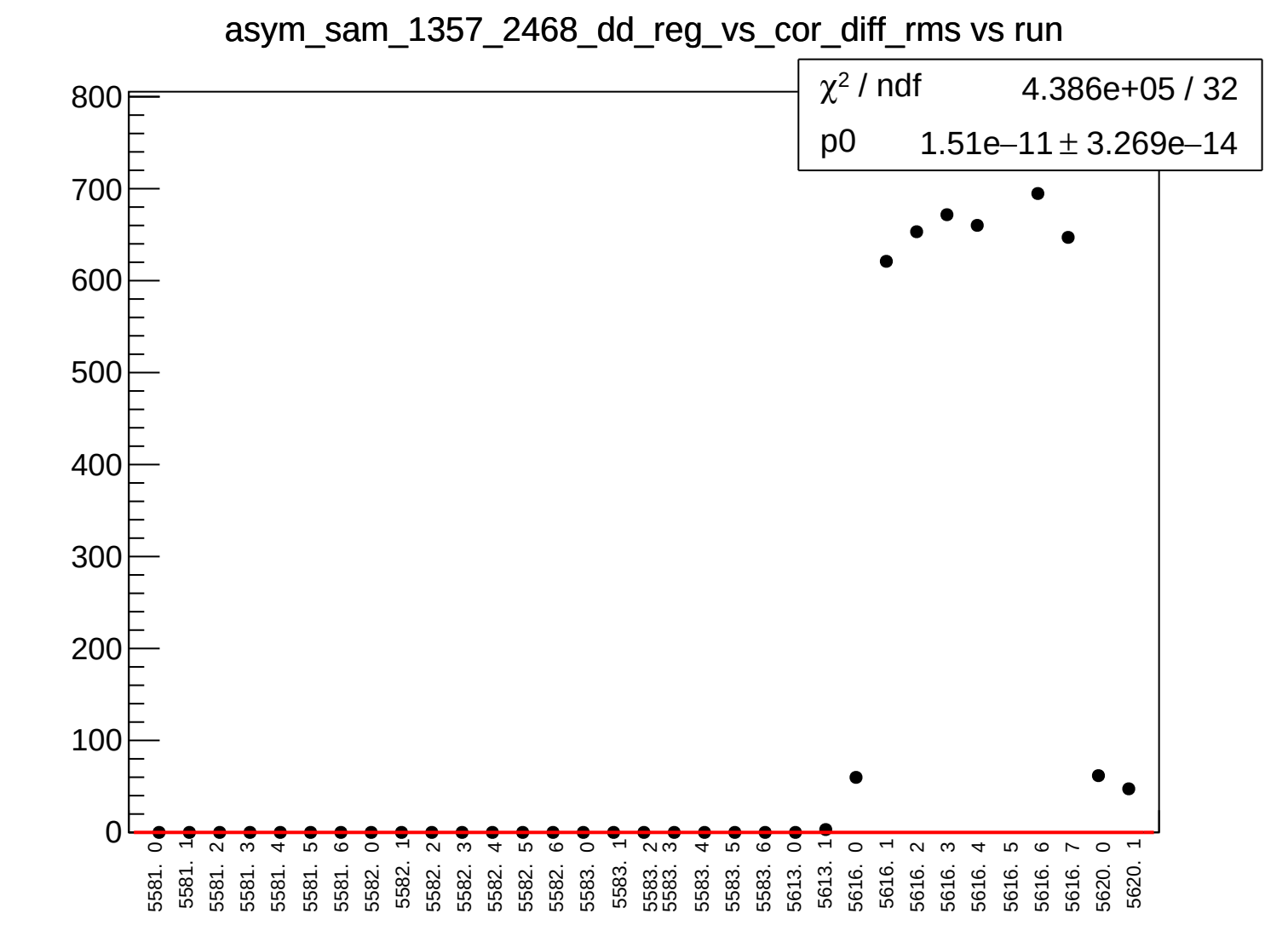

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 7659 / 32
p0 523.4 ± 0.652
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

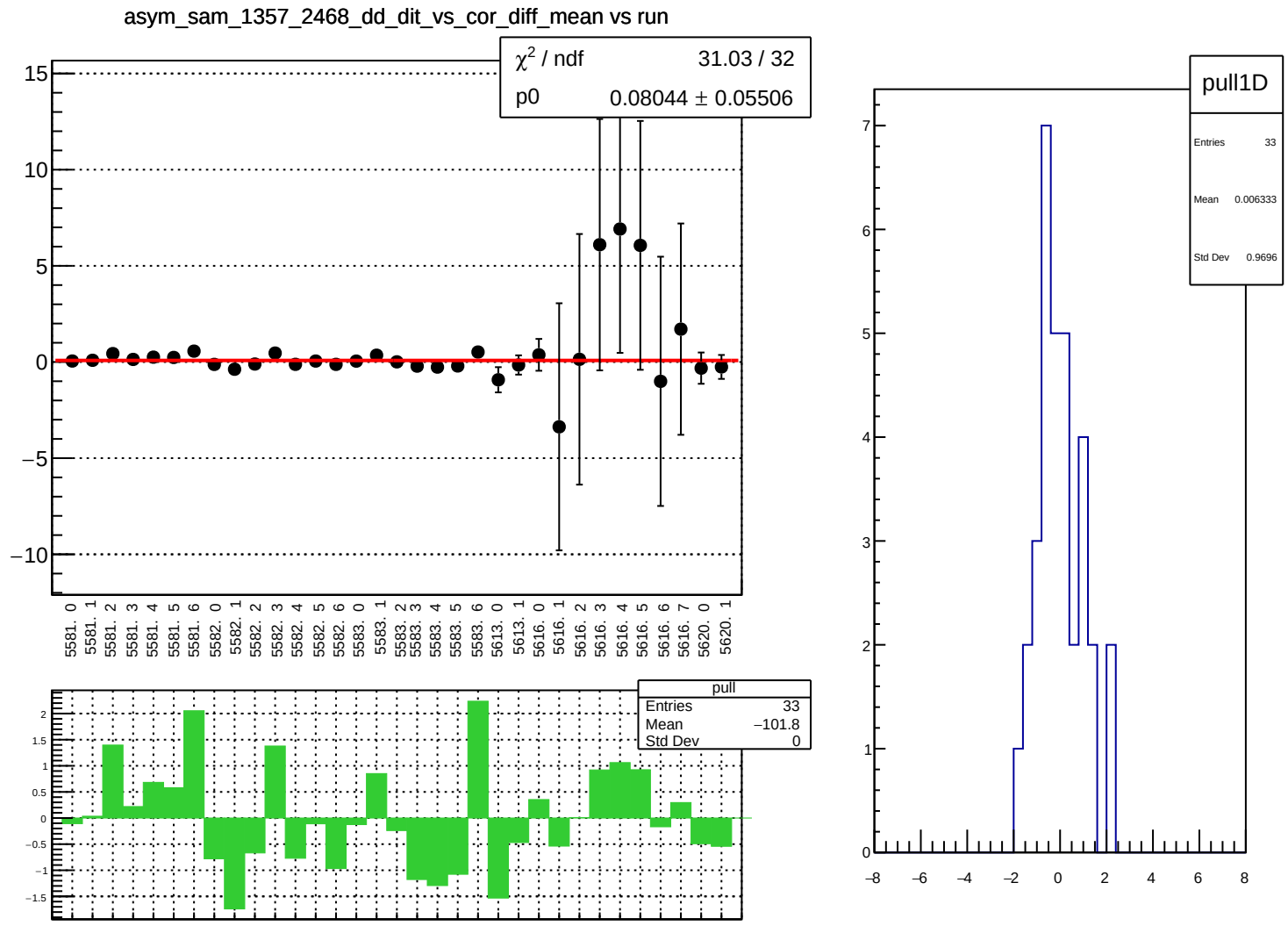

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 36.26 / 32
p0 −907.6 ± 927.5
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −128.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

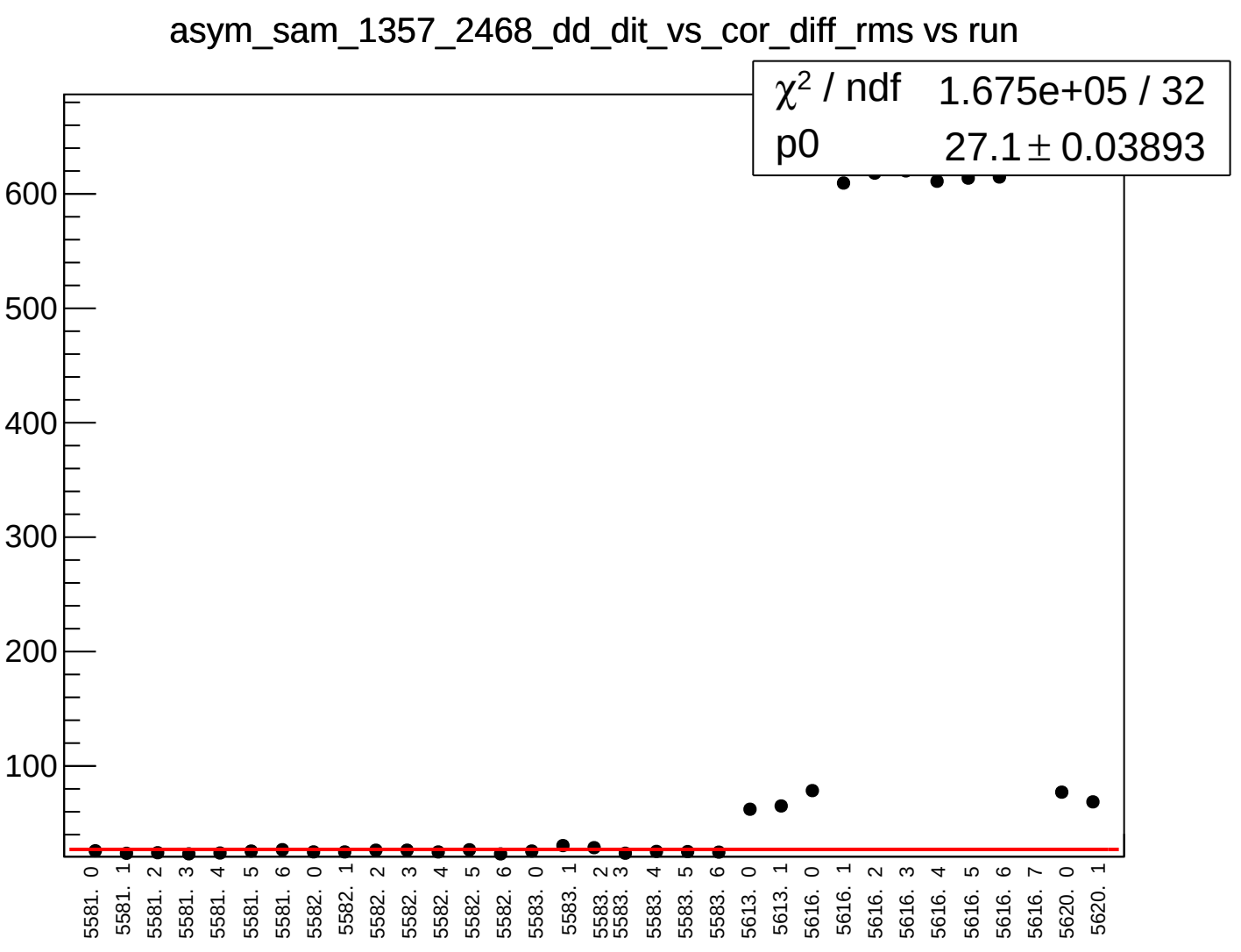

pull1D
Entries 33
Mean 0.004399
Std Dev 1.048
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

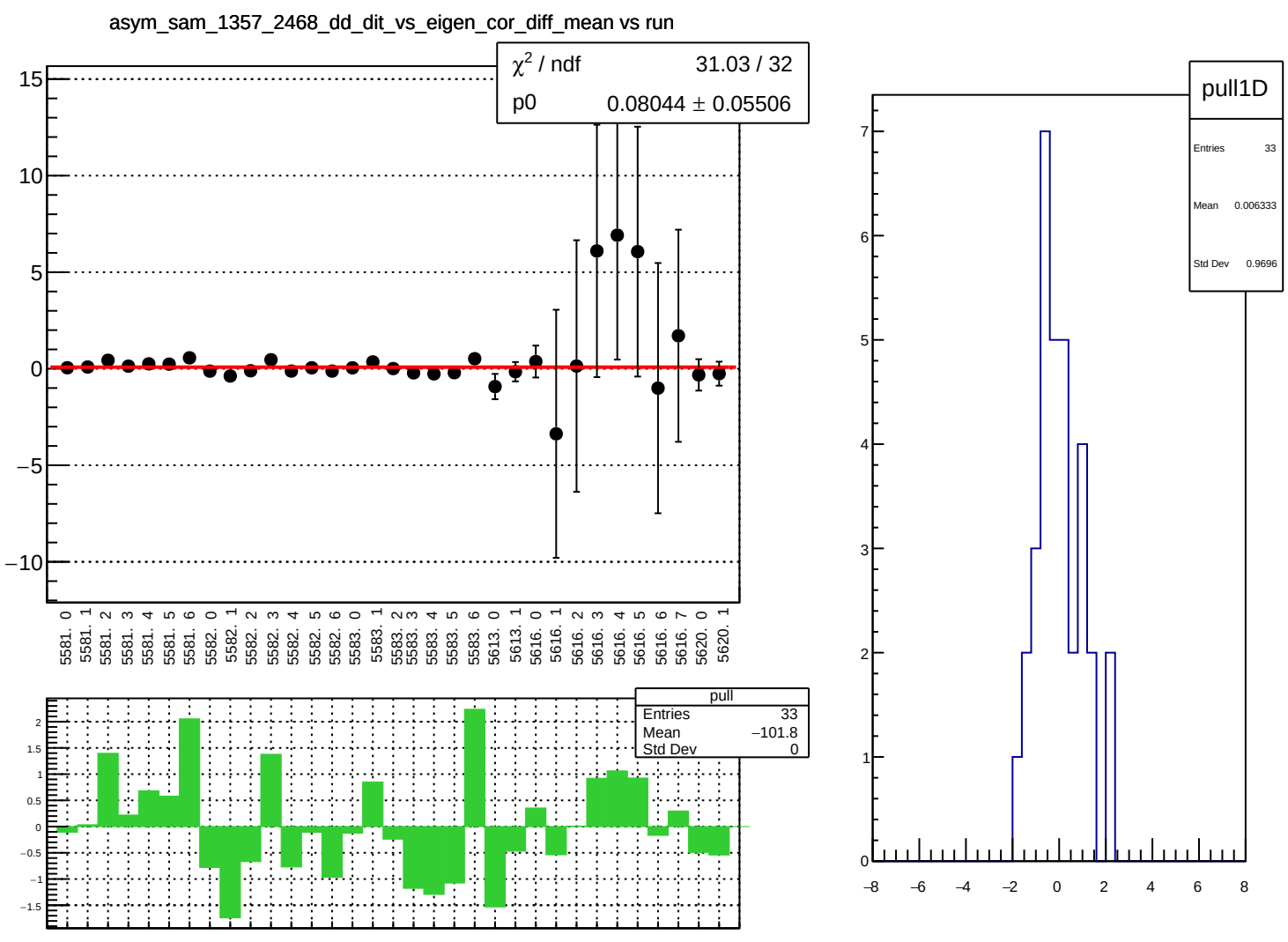

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.415e+04 / 32
p0 523.8 ± 0.6559
800
750
700
650
600
550
500
450
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

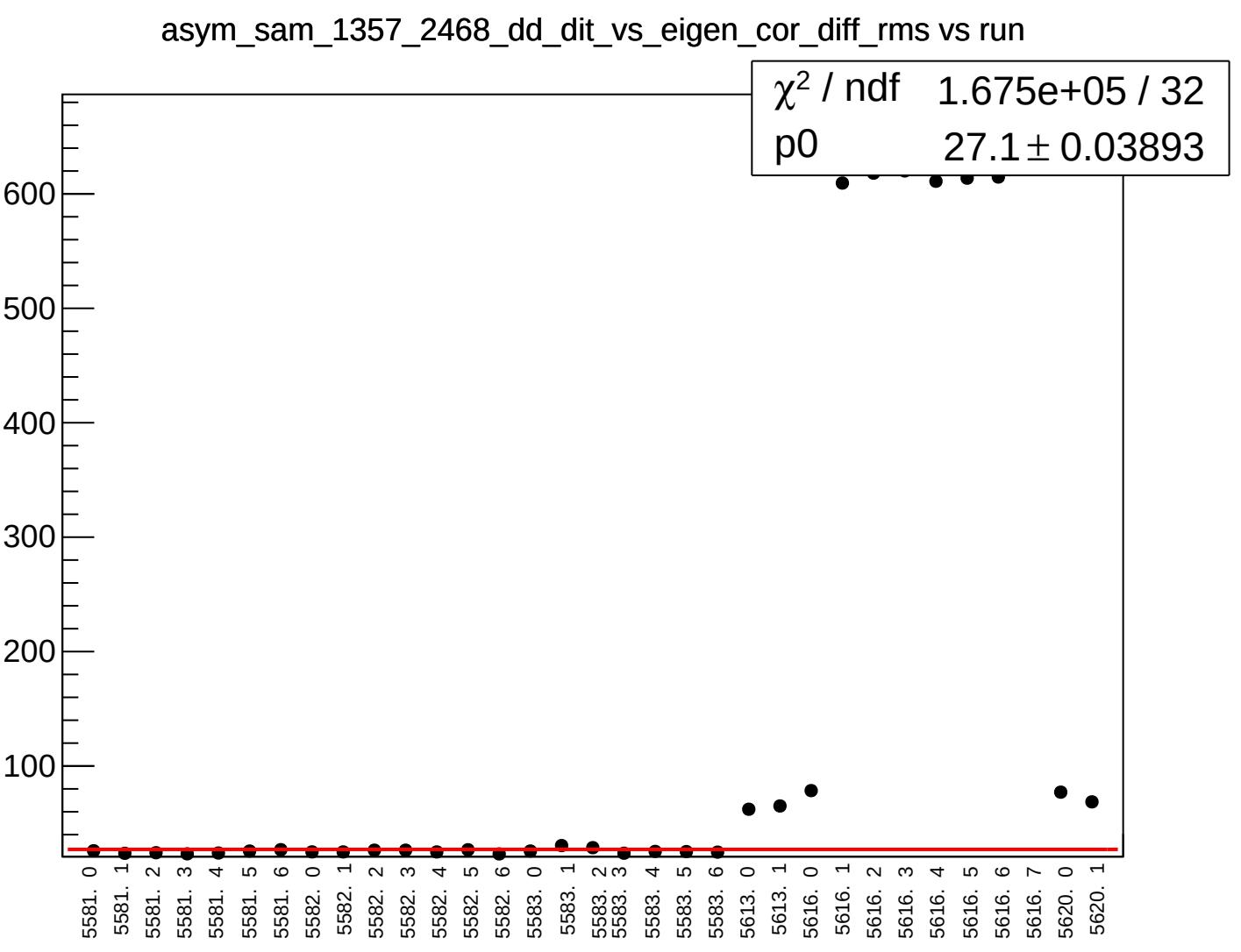

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 28.68 / 32
p0 5.384e−14 ± 4.623e−14
15
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.23
Std Dev 7.416
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.1088
Std Dev 0.9259
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

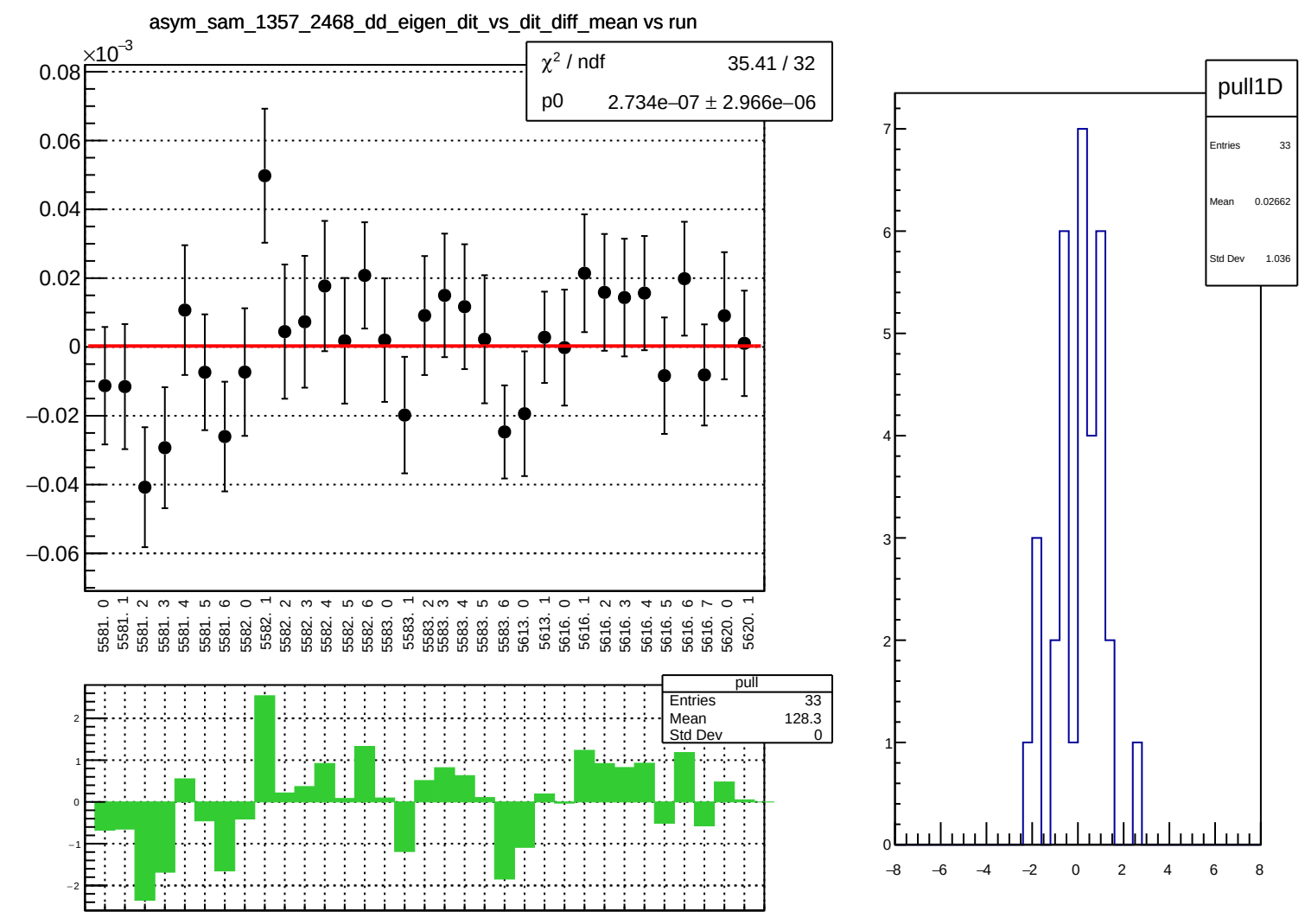

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.386e+05 / 32
p0 1.51e−11 ± 3.269e−14
800
700
600
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

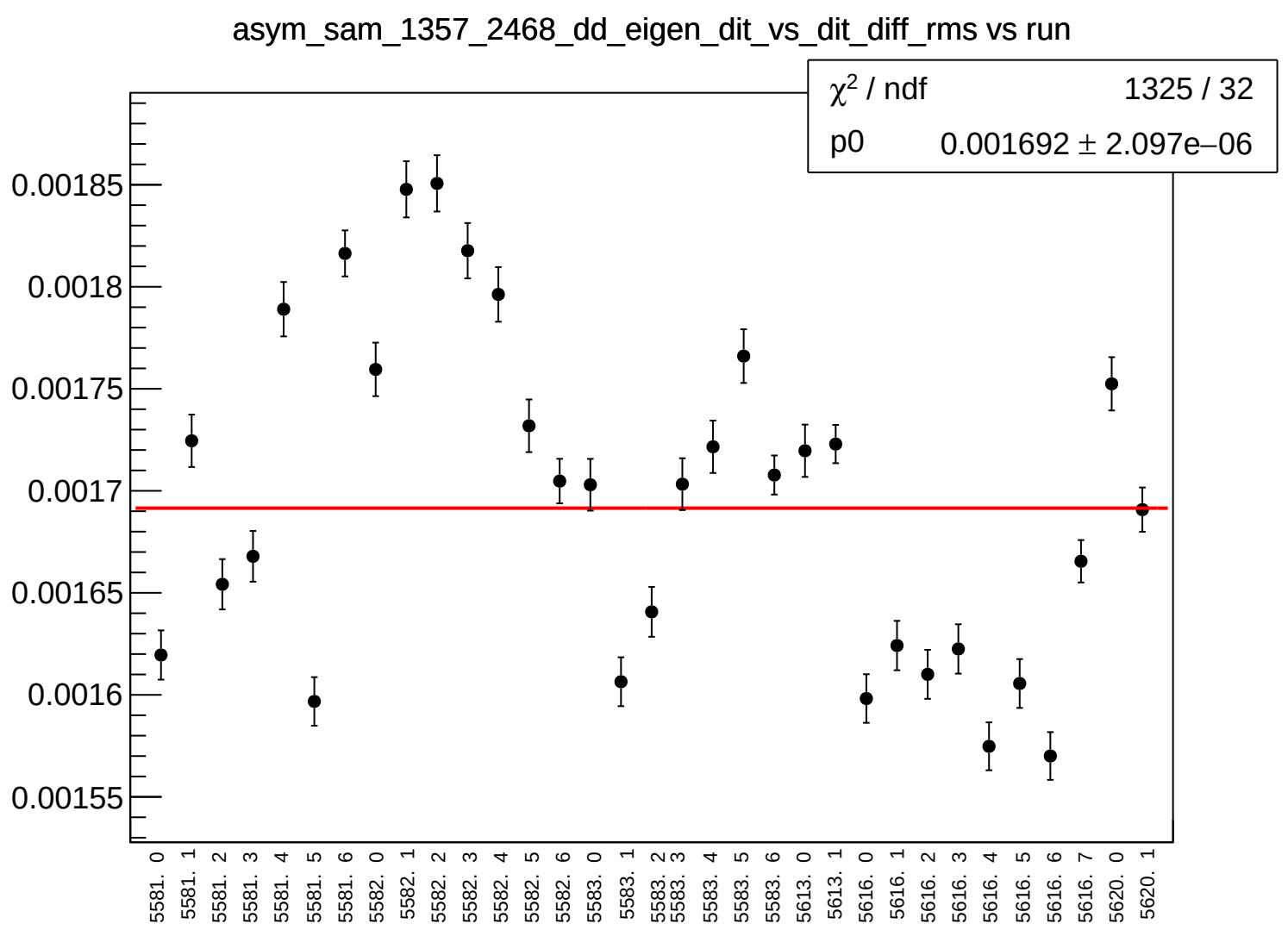

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 31.03 / 32
p0 0.08044 ± 0.05506
15
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −101.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.006333
Std Dev 0.9696
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

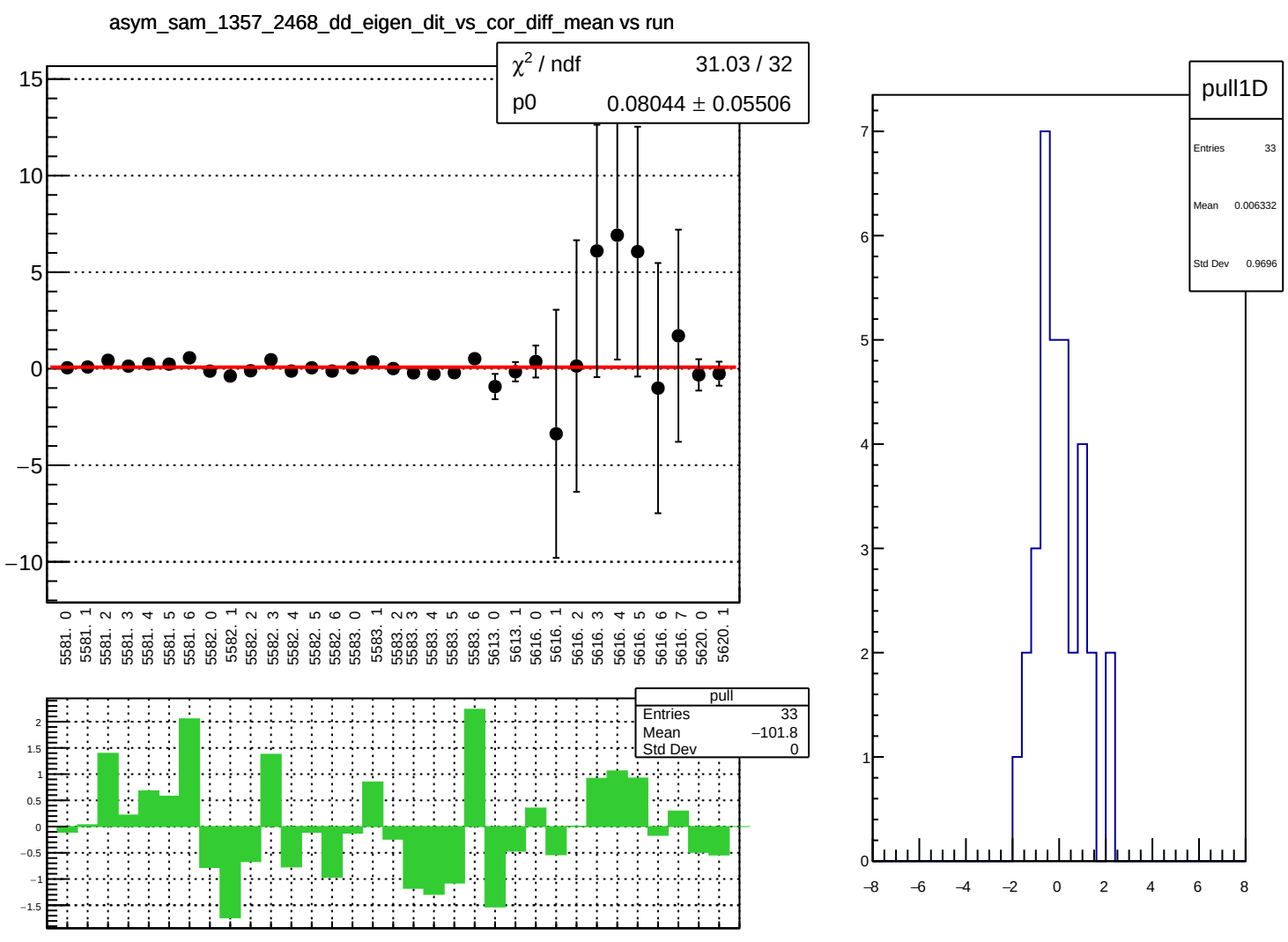

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.675e+05 / 32
p0 27.1 ± 0.03893
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

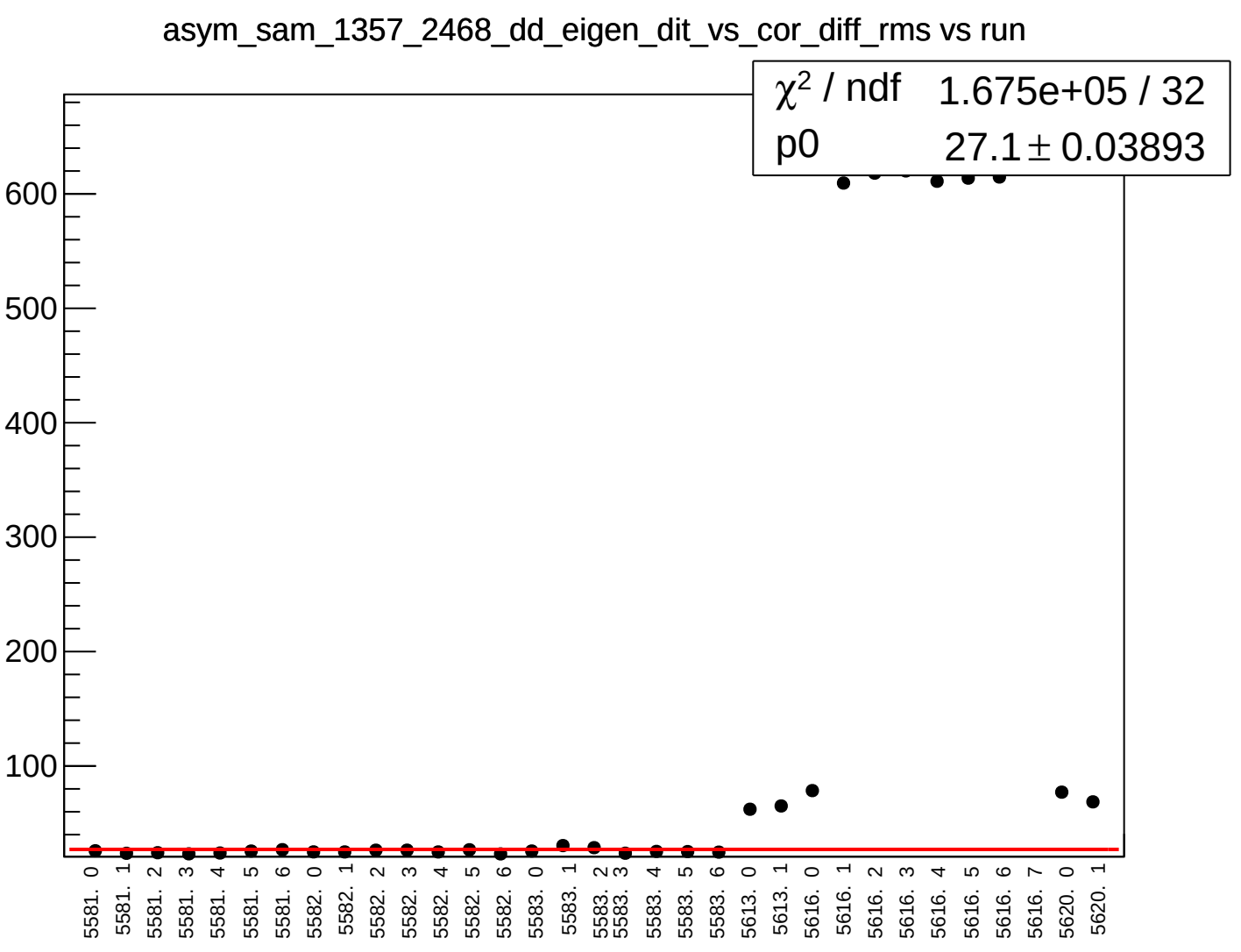

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.03 / 32
p0 0.08044 ± 0.05506
15
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −101.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.006333
Std Dev 0.9696
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

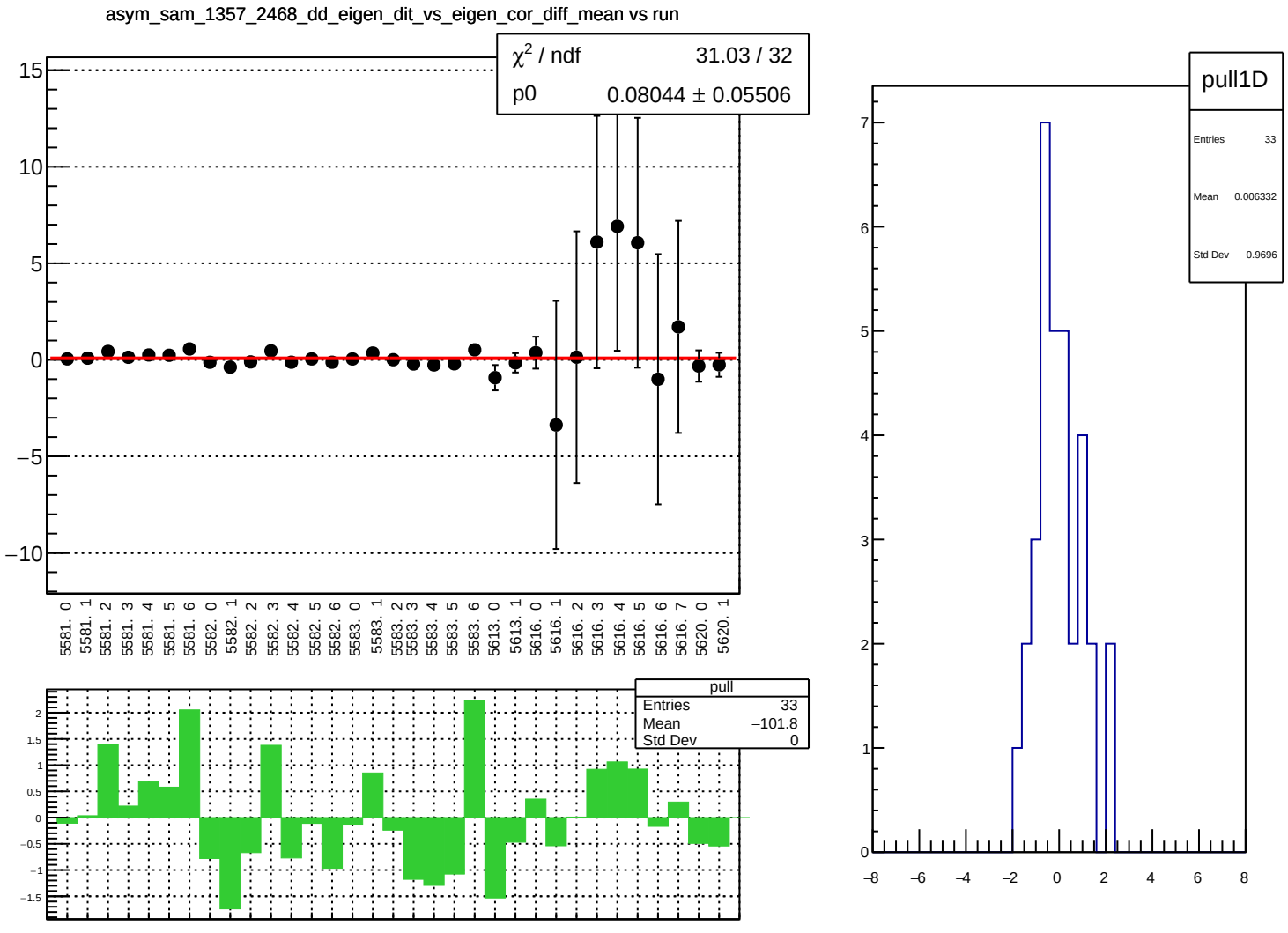

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.675e+05 / 32
p0 27.1 ± 0.03893
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

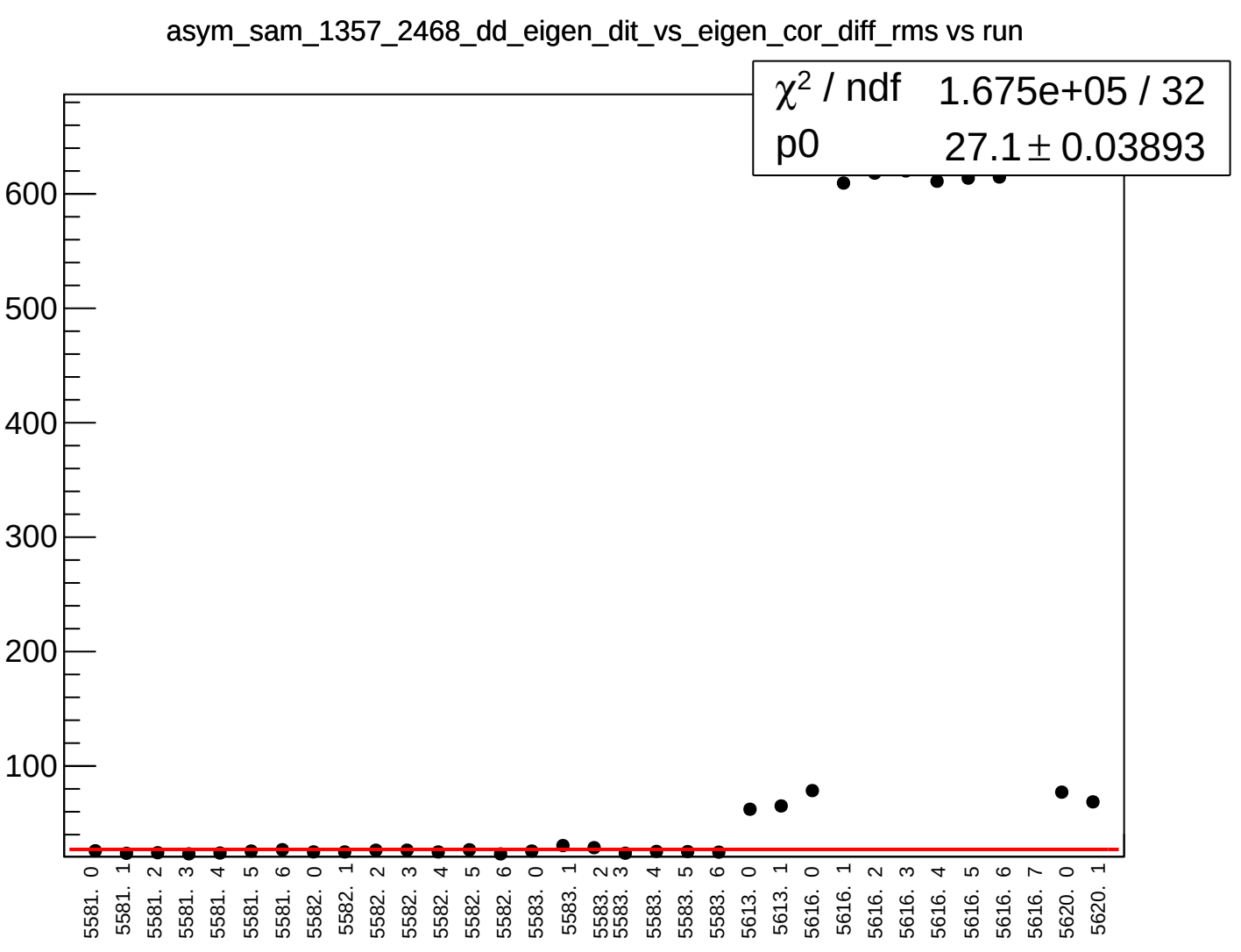

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.41 / 32
p0 2.734e−07 ± 2.966e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 128.3
Std Dev 0
pull1D
Entries 33
Mean 0.02662
Std Dev 1.036

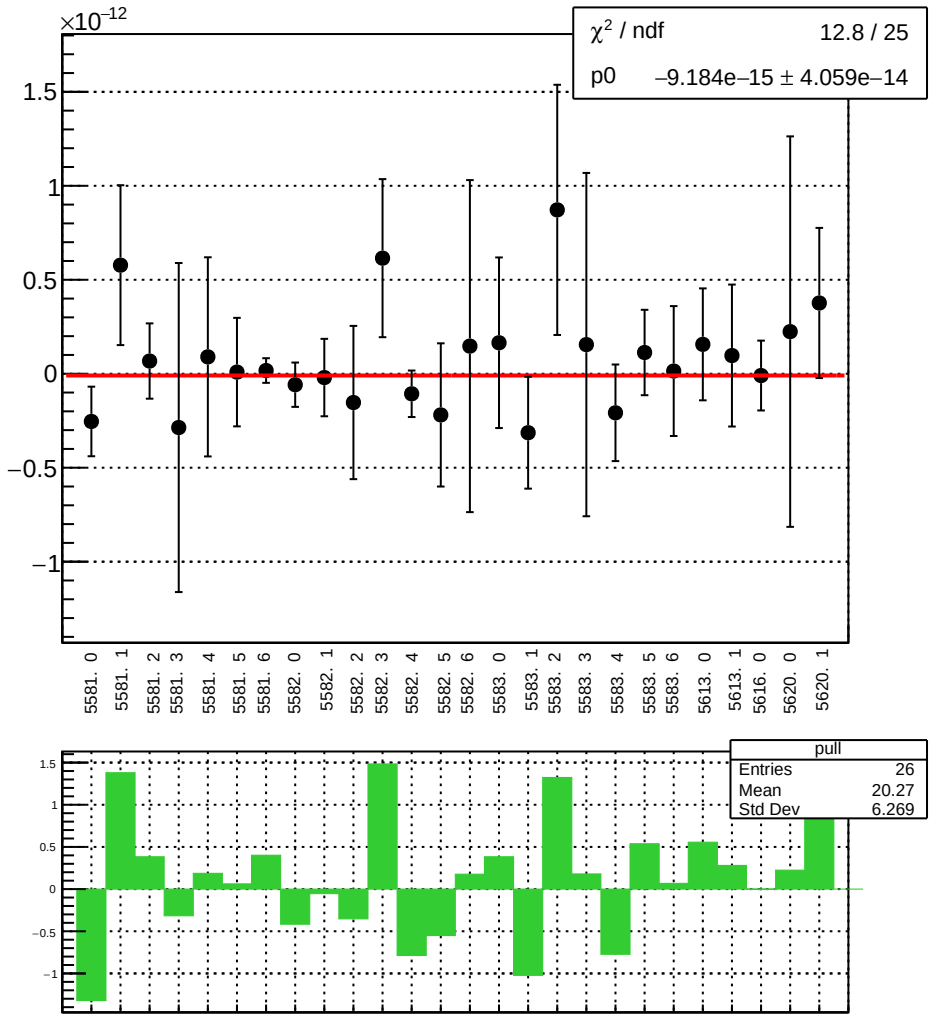

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1325 / 32
p0 0.001692 ± 2.097e−06
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

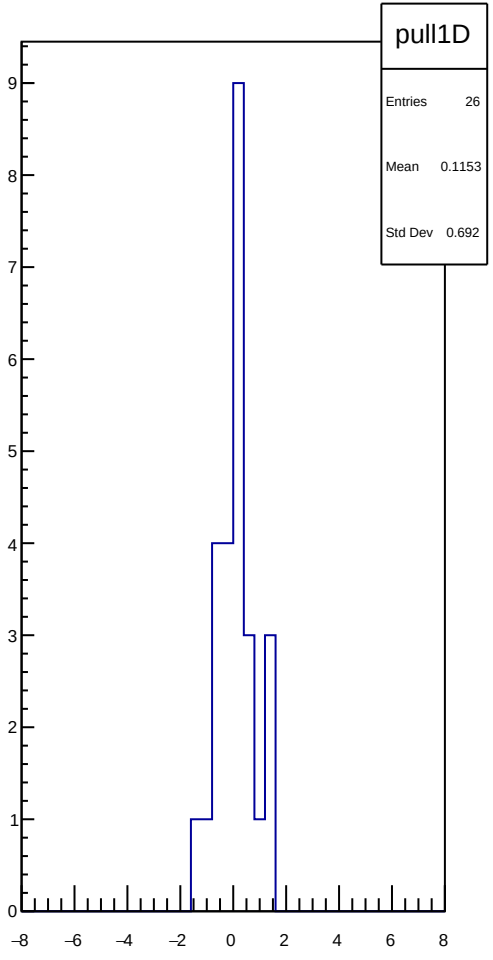

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 31.03 / 32
p0 0.08044 ± 0.05506
15
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −101.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.006332
Std Dev 0.9696
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

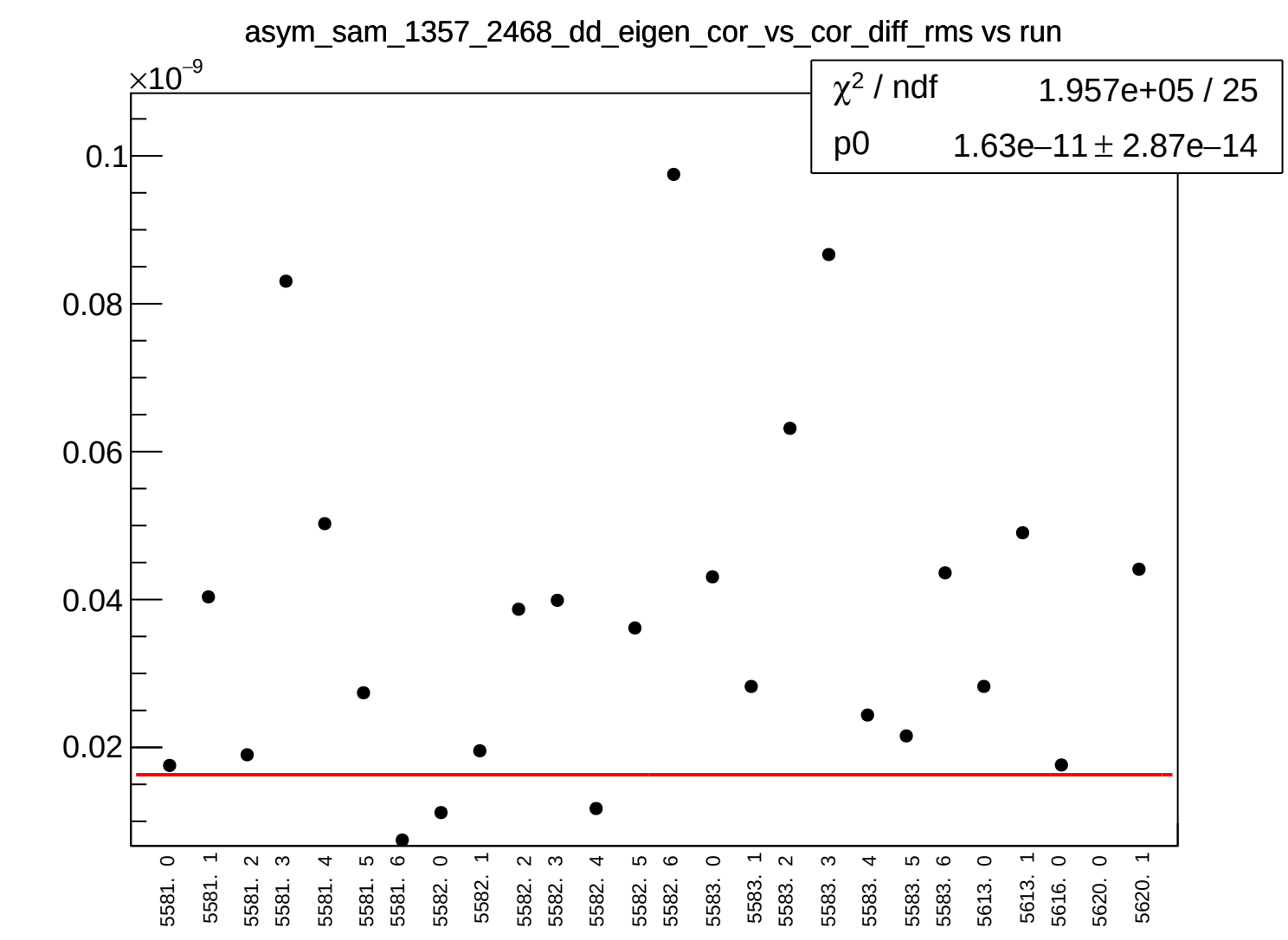

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.675e+05 / 32
p0 27.1 ± 0.03893
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

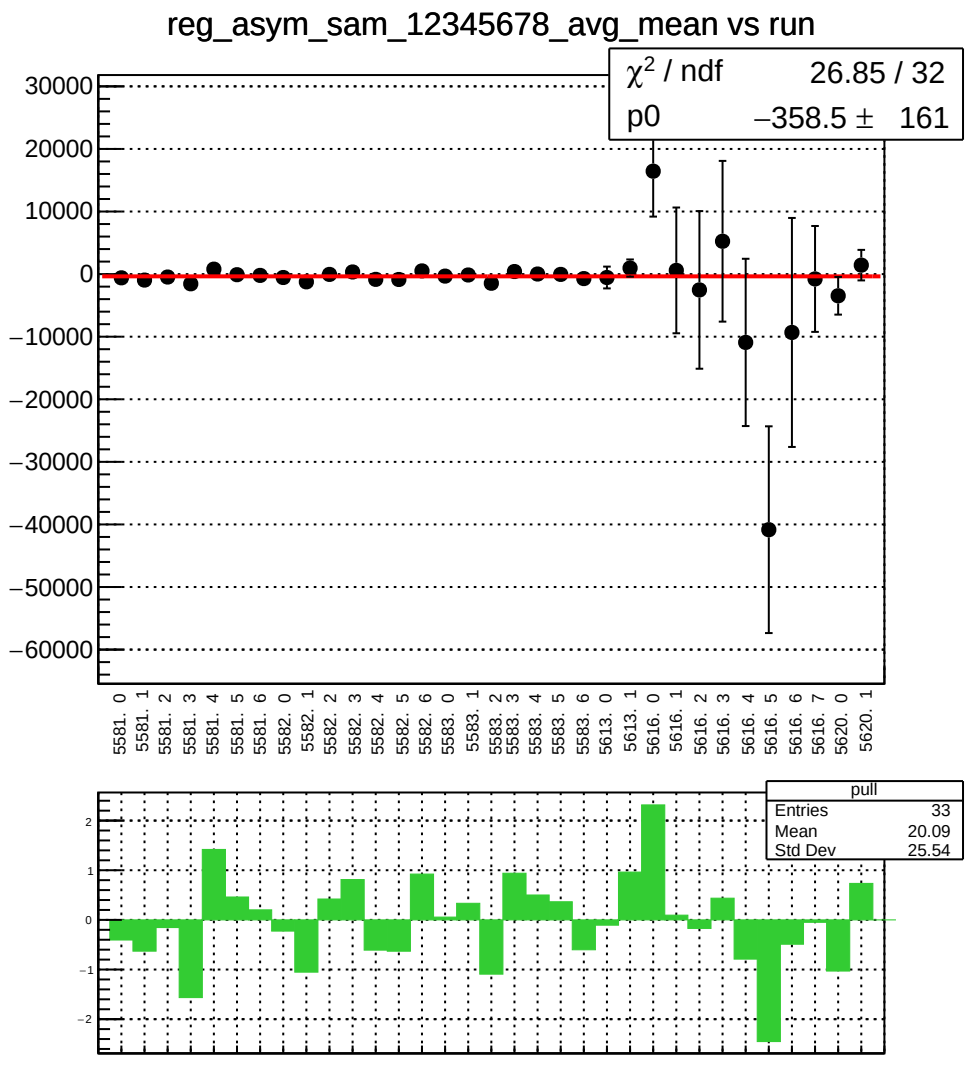

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 31.03 / 32
p0 0.08044 ± 0.05506
15
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −101.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.006332
Std Dev 0.9696
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

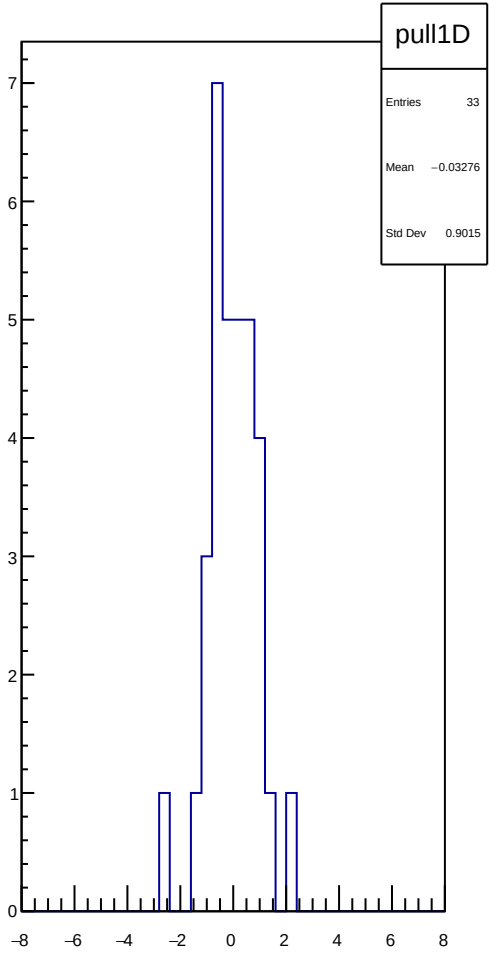

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.675e+05 / 32
p0 27.1 ± 0.03893
600
500
400
300
200
100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

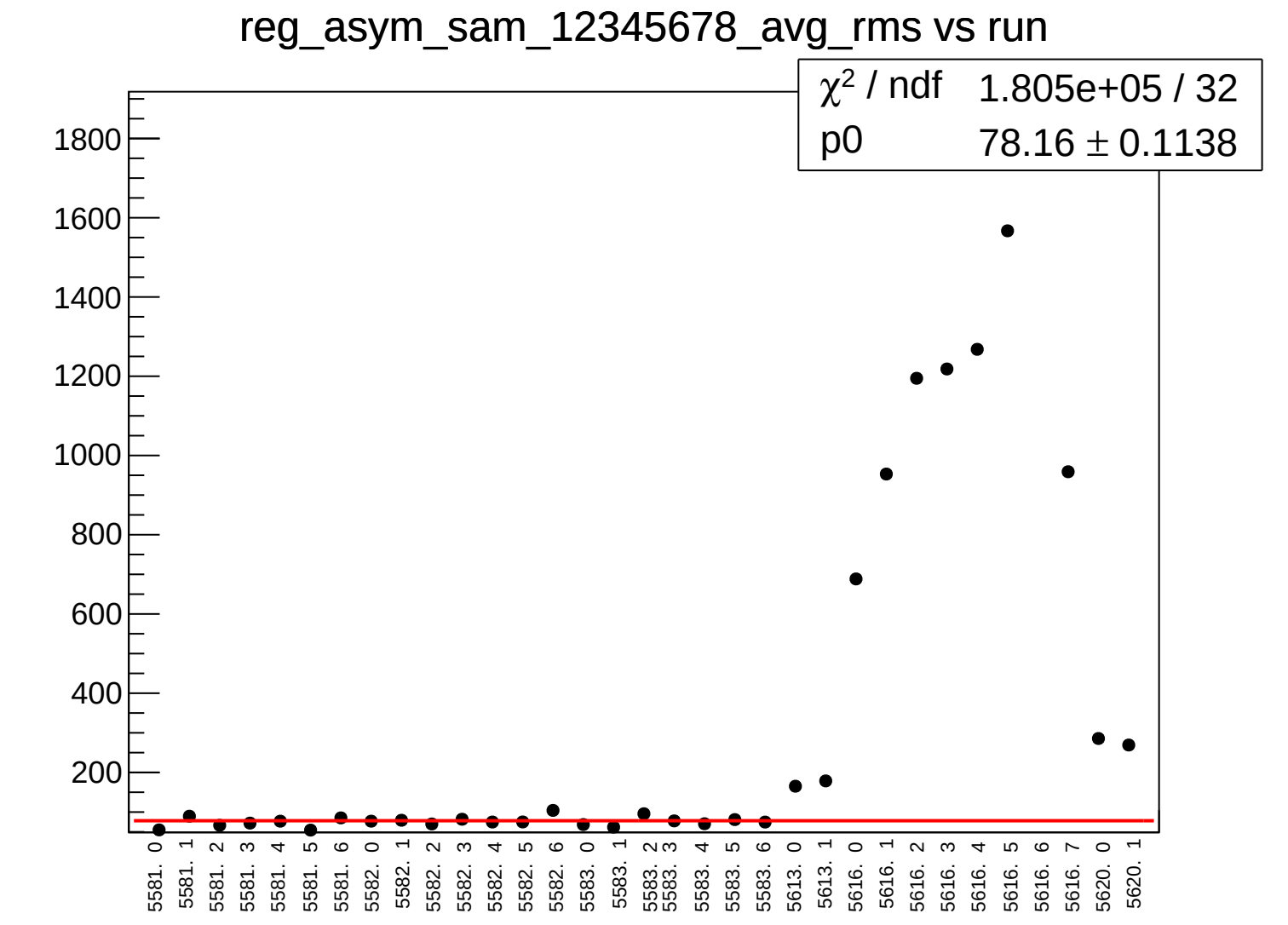

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 12.8 / 25
p0 −9.184e−15 ± 4.059e−14
1.5
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 20.27
Std Dev 6.269
1.5
1
0.5
0
−0.5
−1

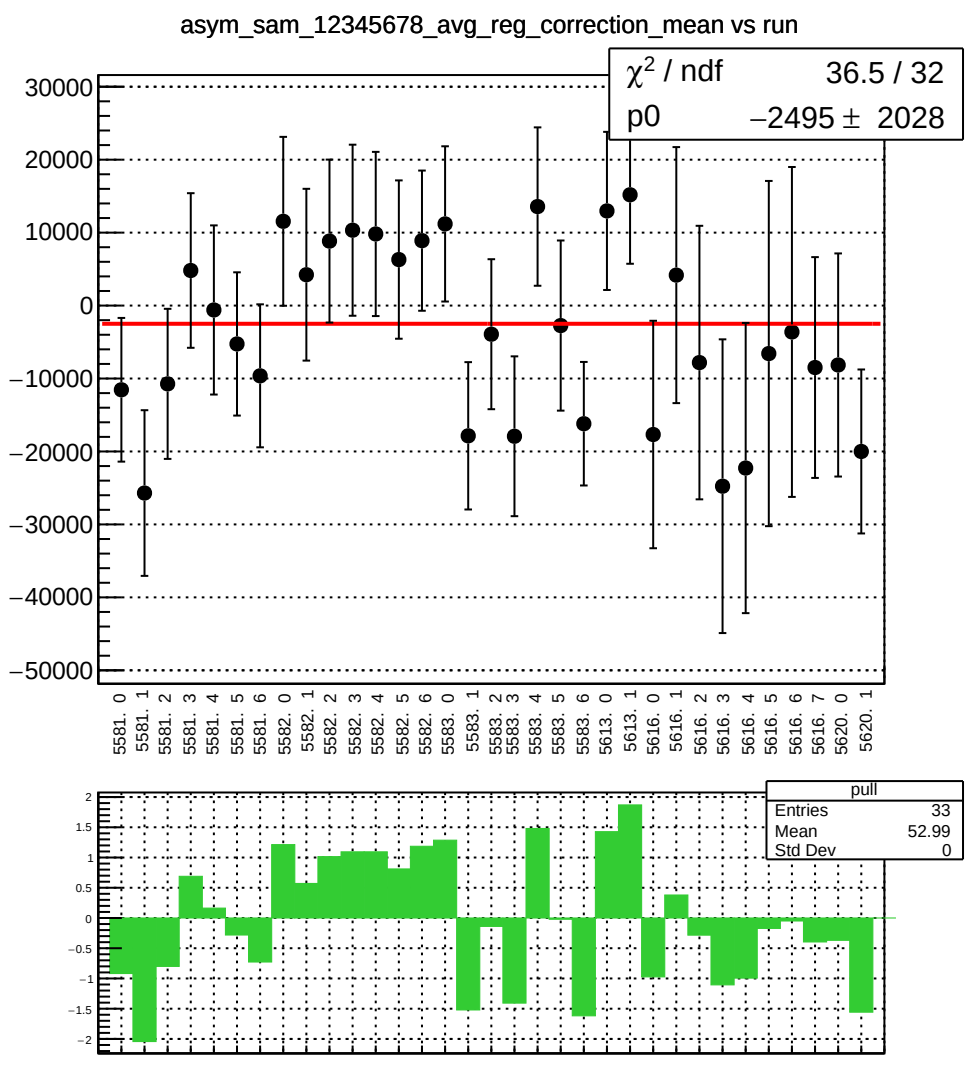

pull1D
Entries 26
Mean 0.1153
Std Dev 0.692
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

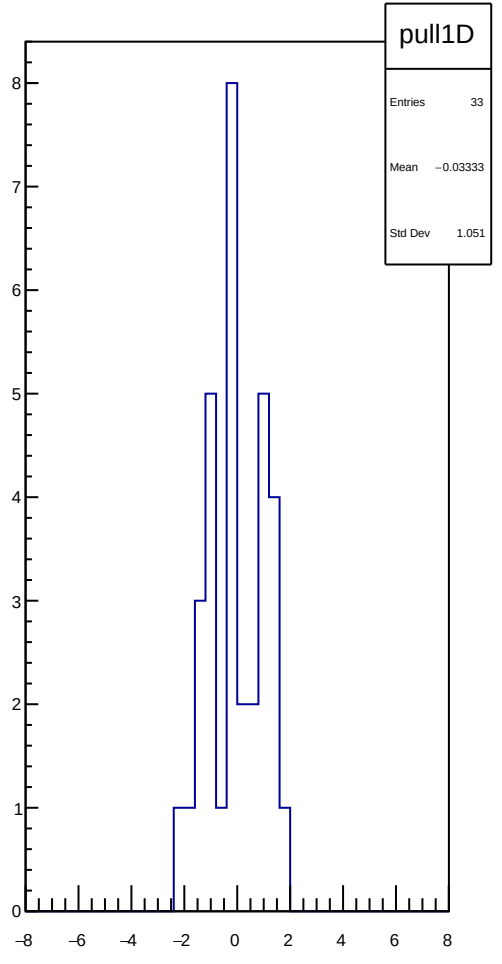

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.957e+05 / 25
p0 1.63e−11 ± 2.87e−14
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

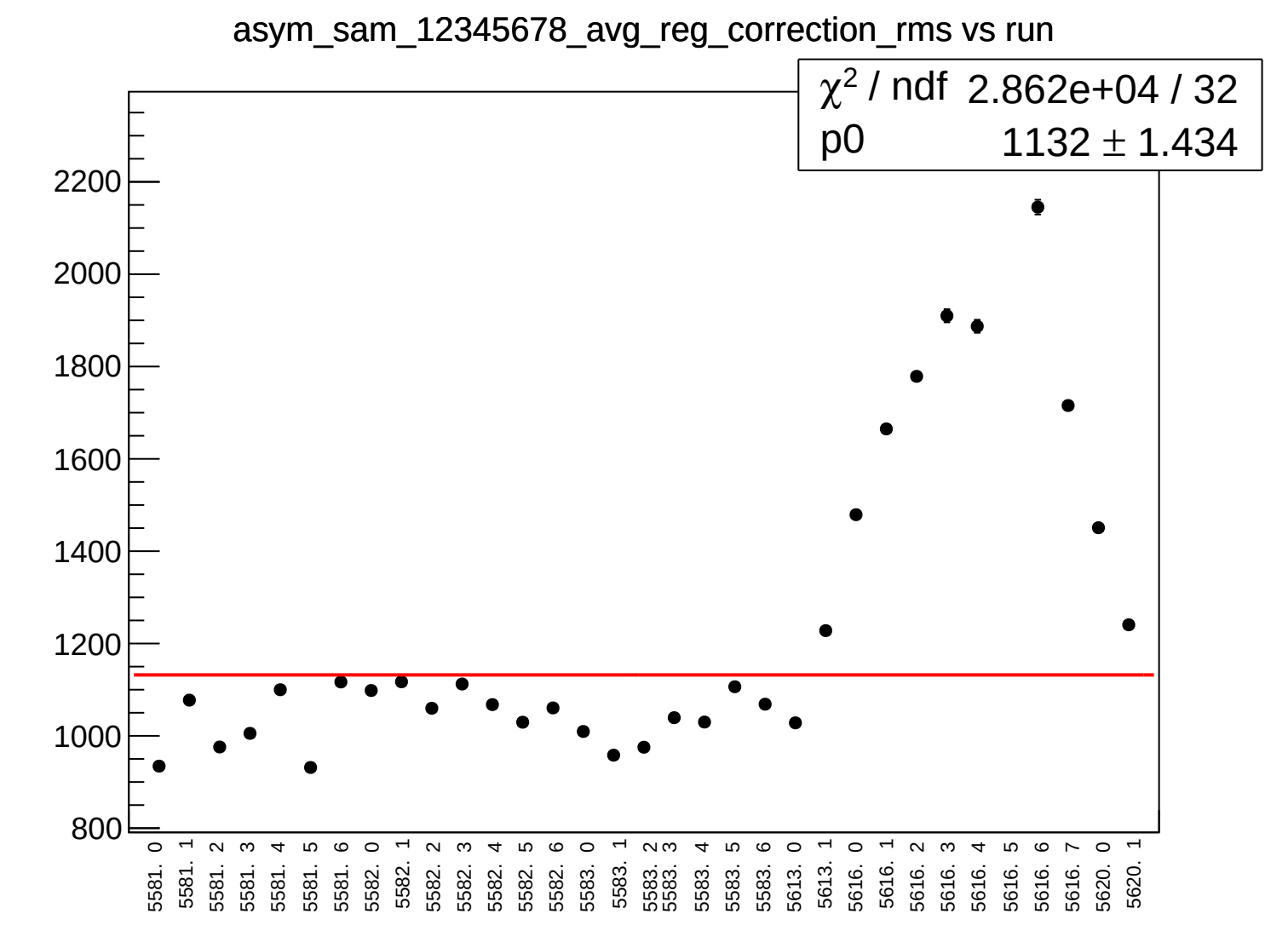

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 26.85 / 32
p0 −358.5 ± 161
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.09
Std Dev 25.54
2
1
0
−1
−2

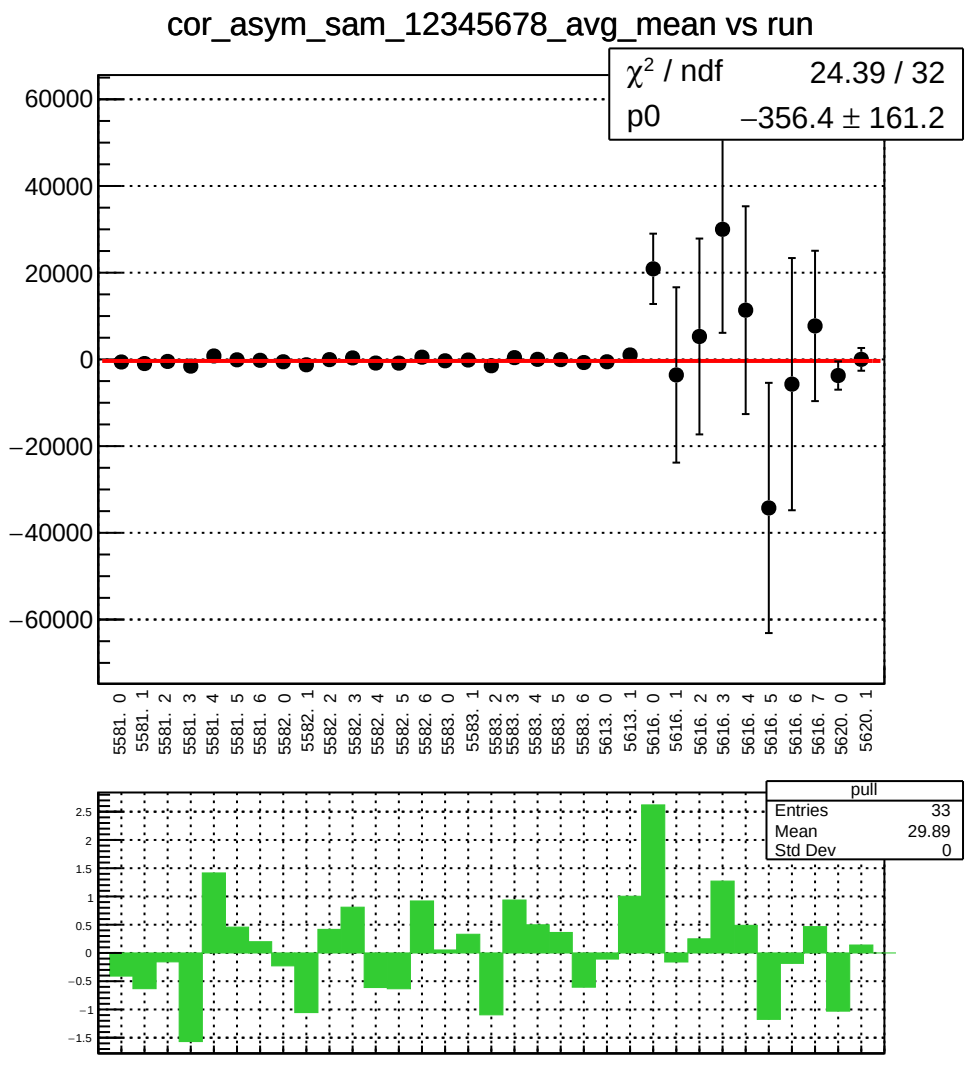

pull1D
Entries 33
Mean −0.03276
Std Dev 0.9015
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

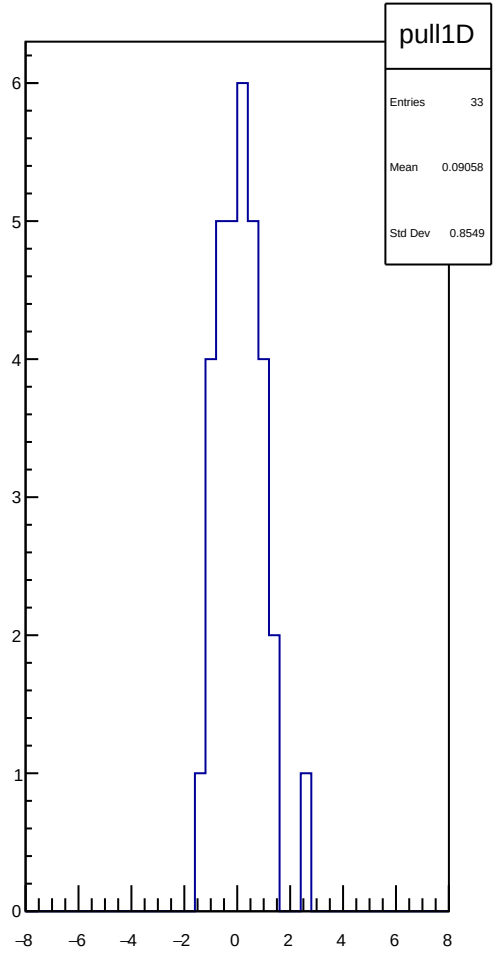

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.805e+05 / 32
p0 78.16 ± 0.1138
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

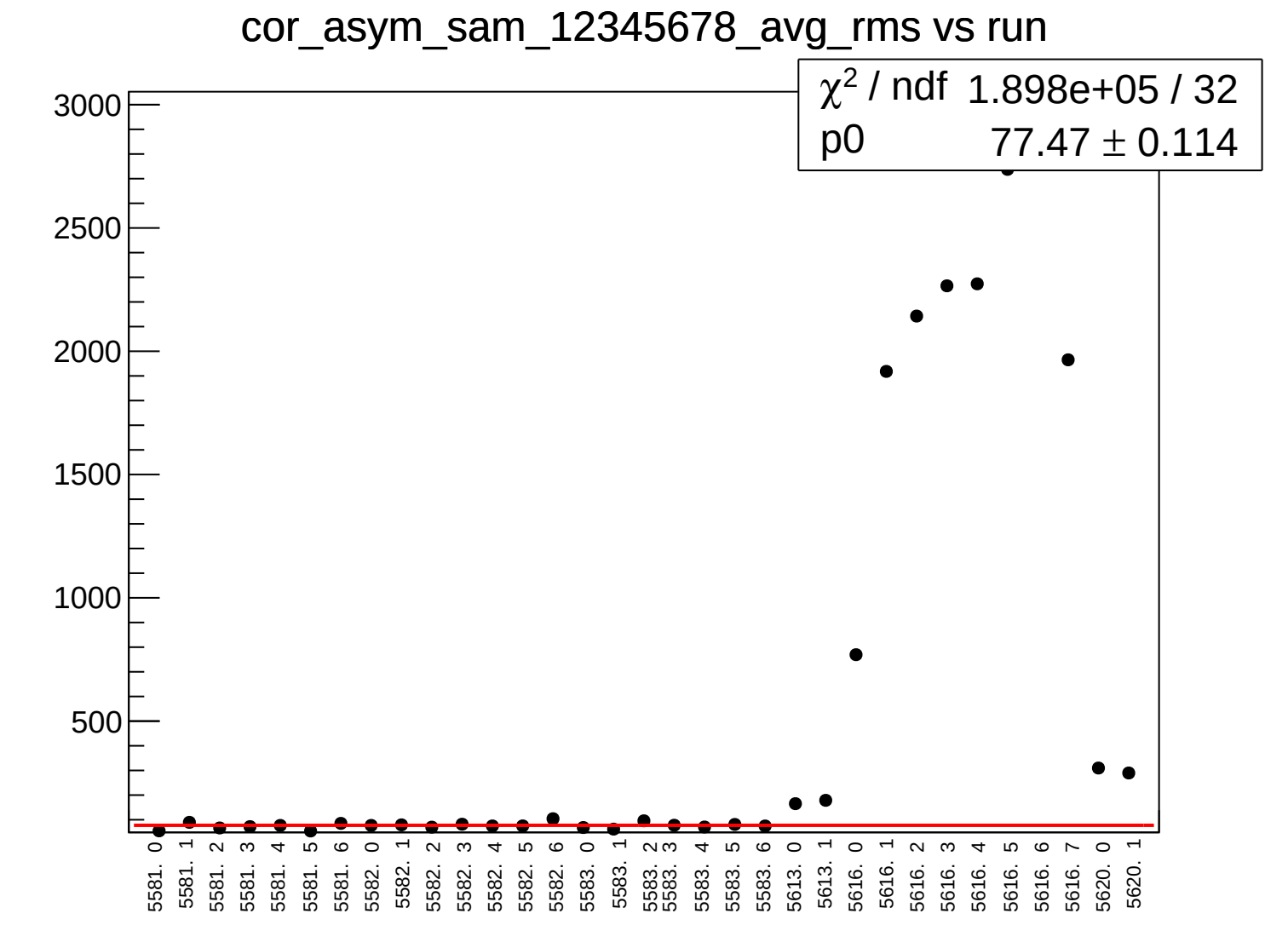

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 36.5 / 32
p0 −2495 ± 2028
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 52.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

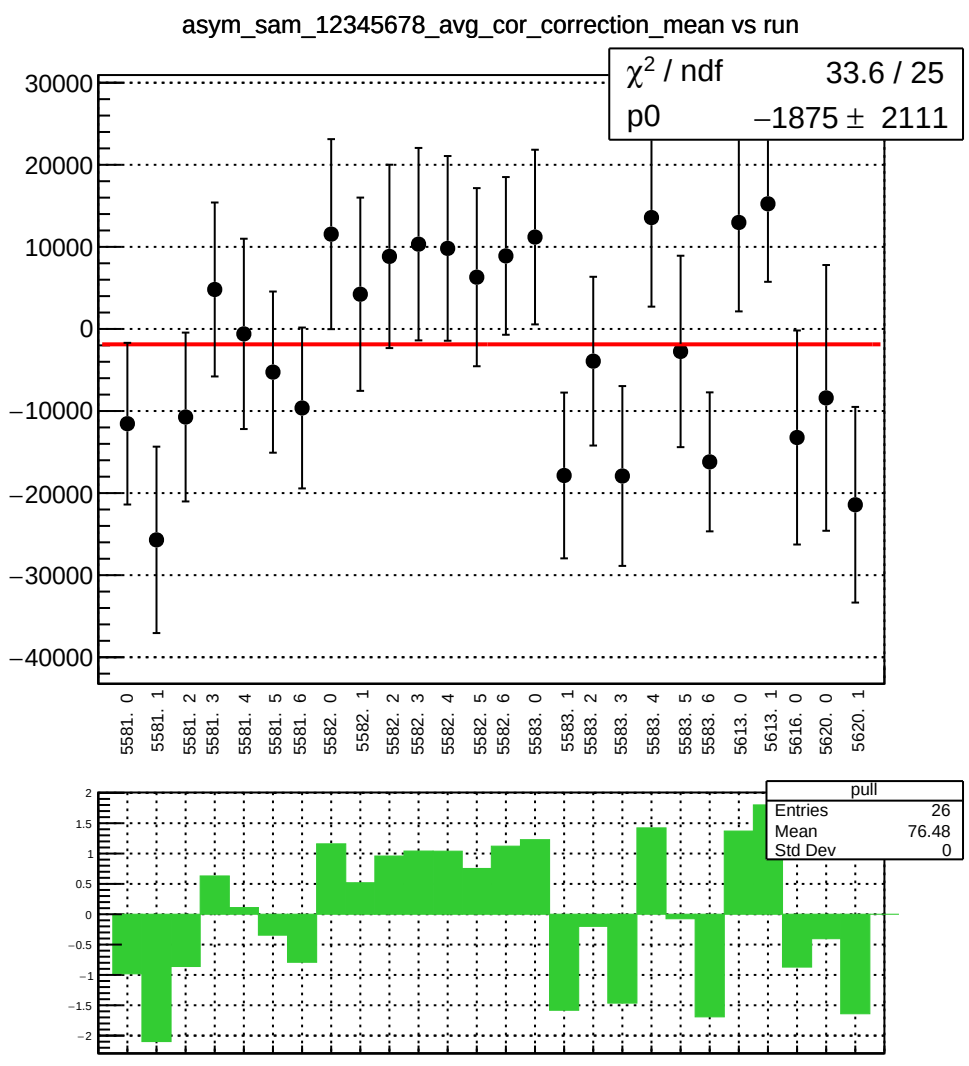

pull1D
Entries 33
Mean −0.03333
Std Dev 1.051
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

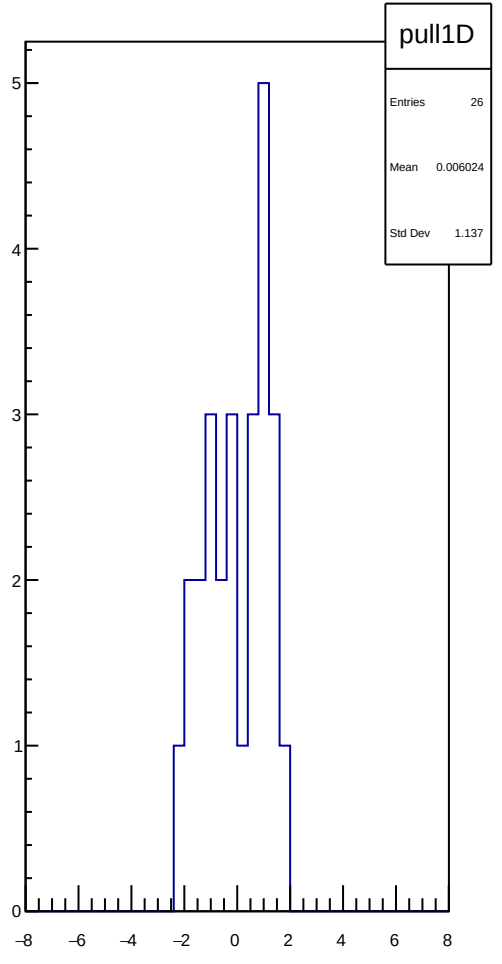

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 2.862e+04 / 32
p0 1132 ± 1.434
2200
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

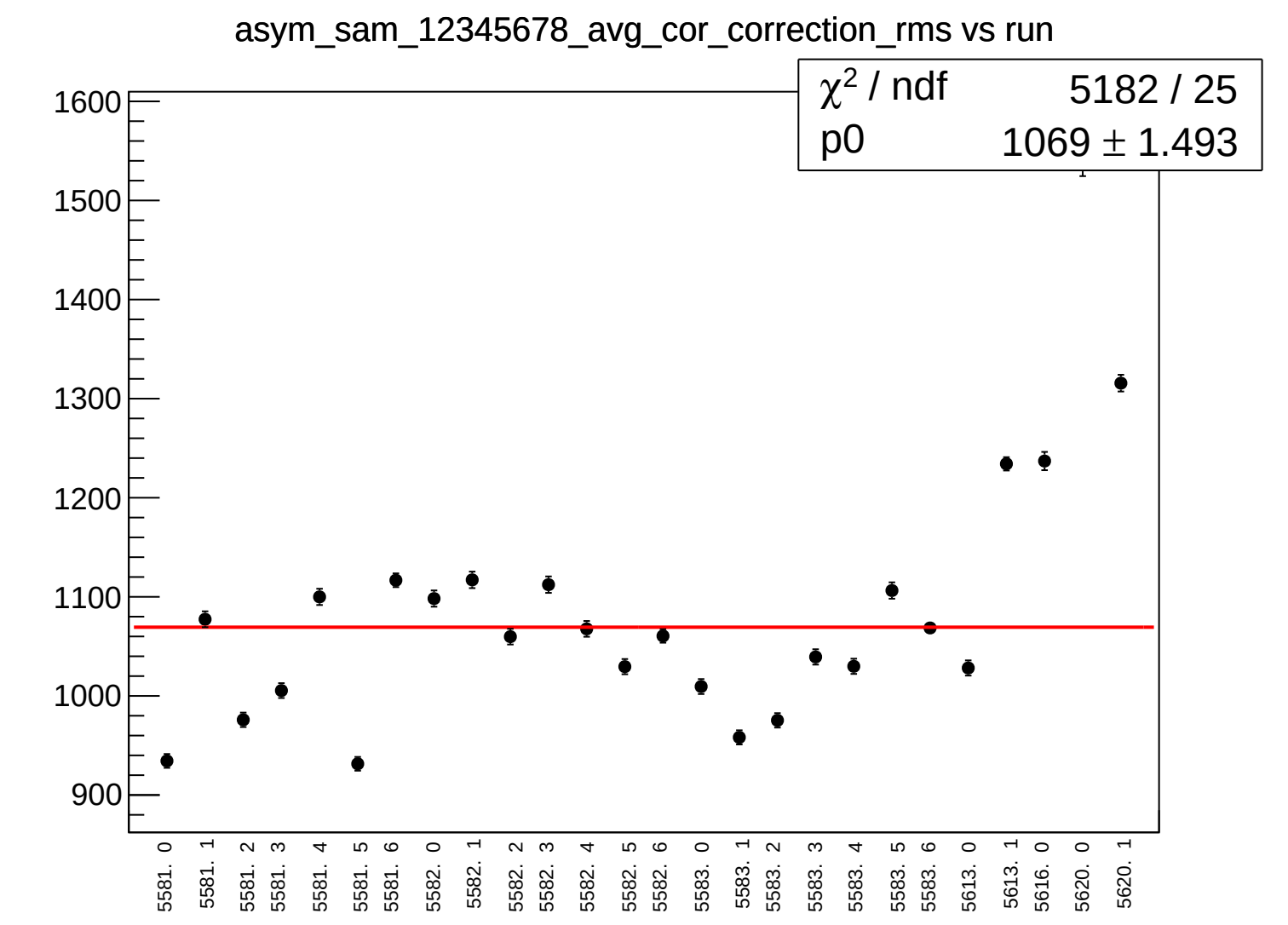

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 24.39 / 32
p0 −356.4 ± 161.2
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.89
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

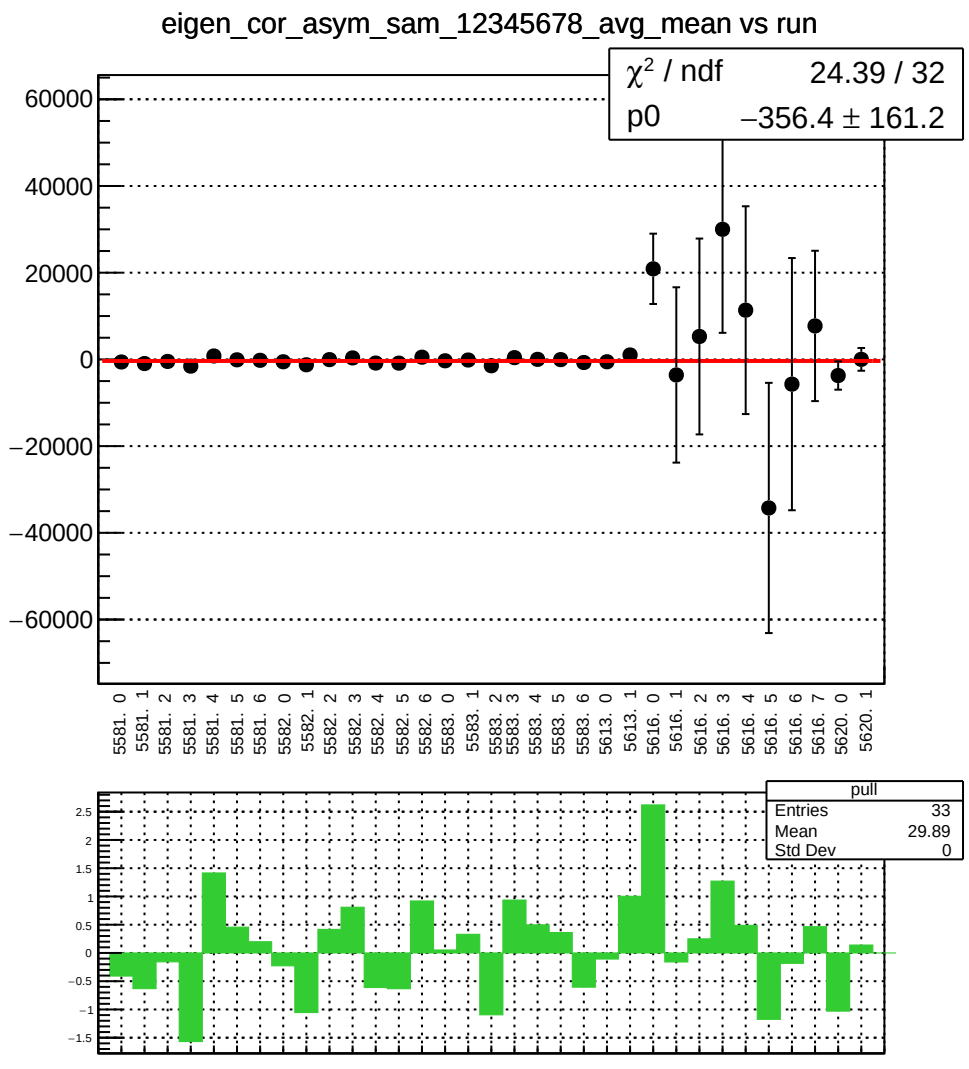

pull1D
Entries 33
Mean 0.09058
Std Dev 0.8549
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

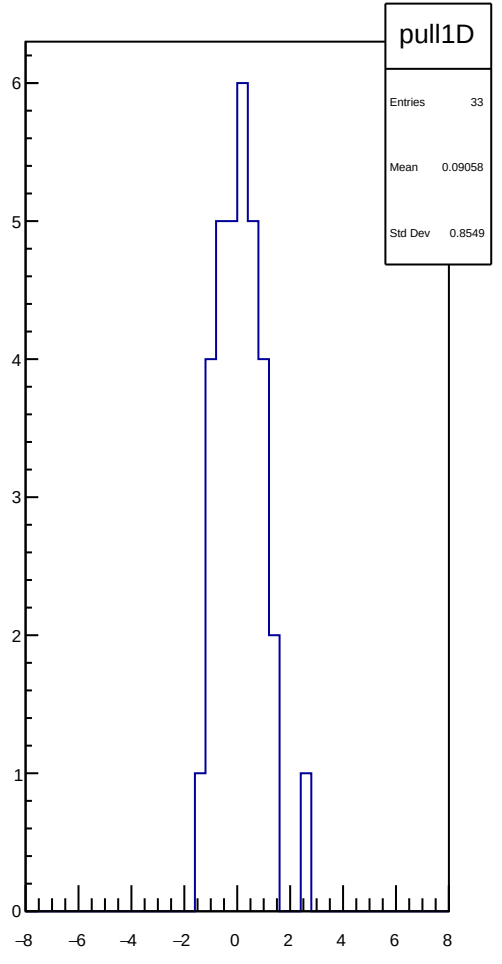

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.898e+05 / 32
p0 77.47 ± 0.114
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

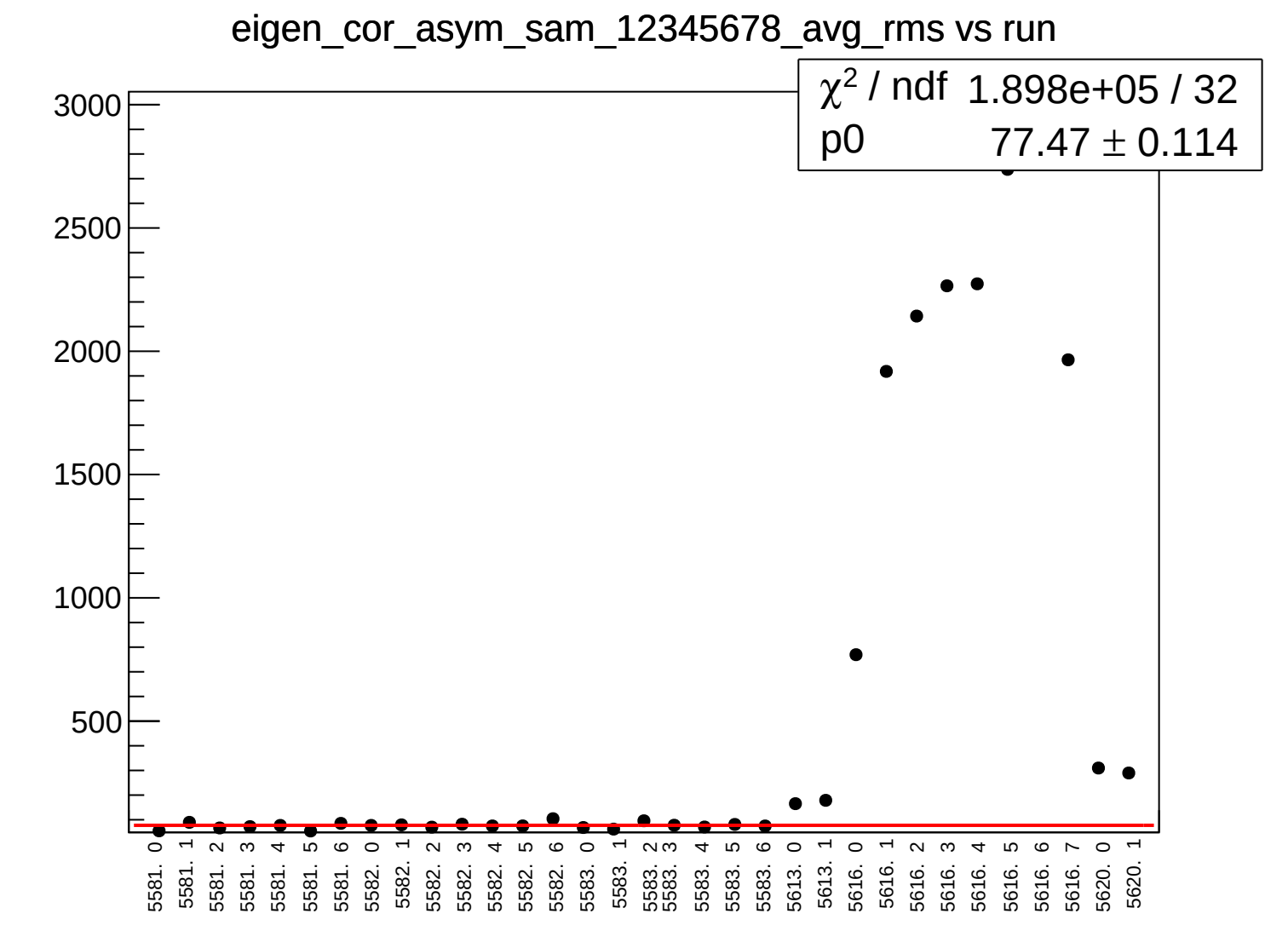

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 33.6 / 25
p0 −1875 ± 2111
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 76.48
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

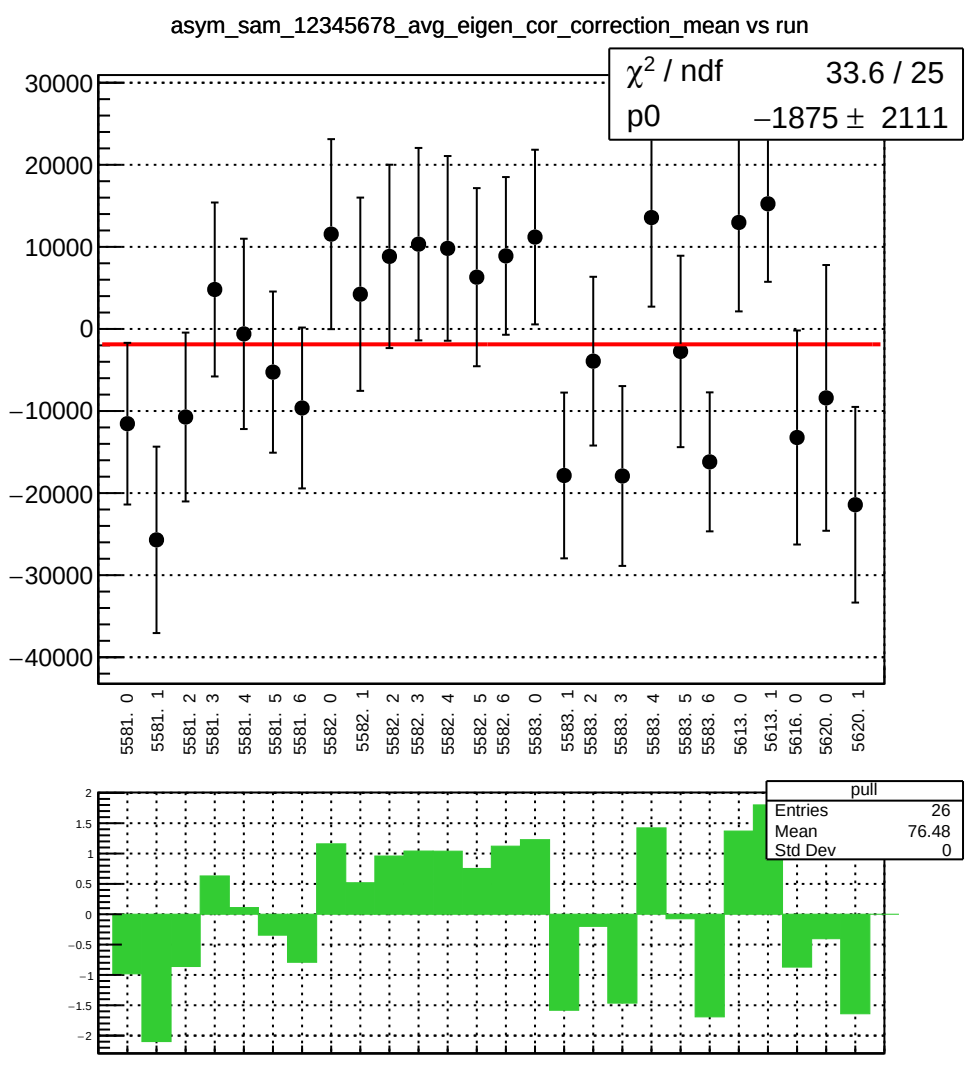

pull1D
Entries 26
Mean 0.006024
Std Dev 1.137
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

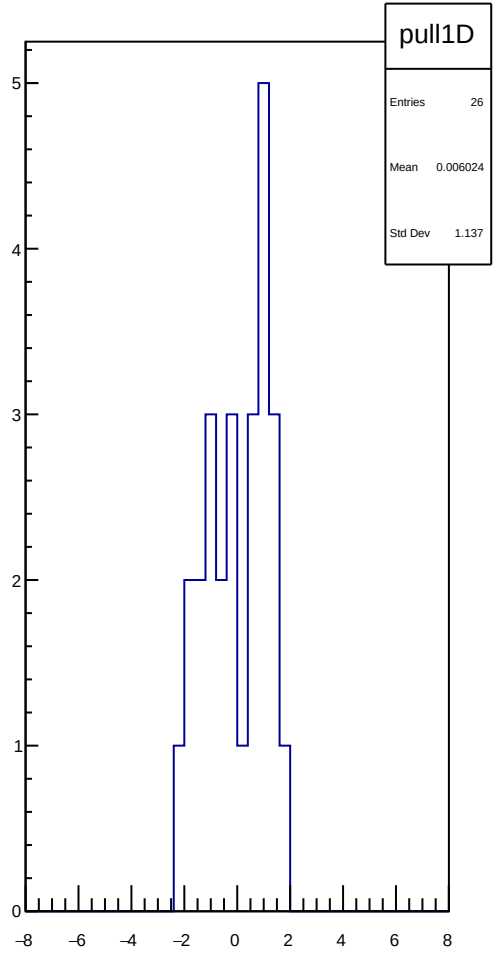

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 5182 / 25
p0 1069 ± 1.493
1600
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

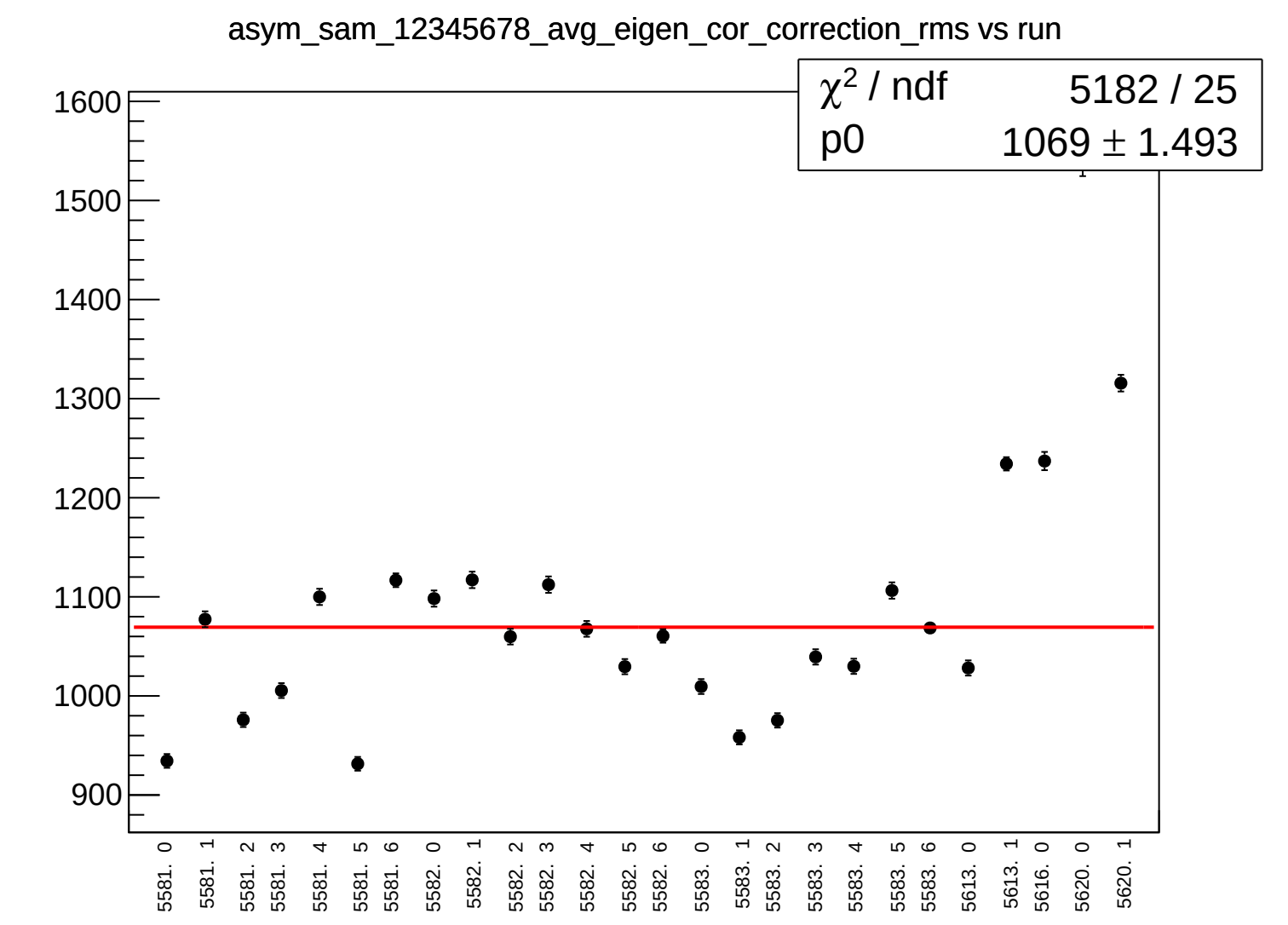

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 24.39 / 32
p0 −356.4 ± 161.2
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.89
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

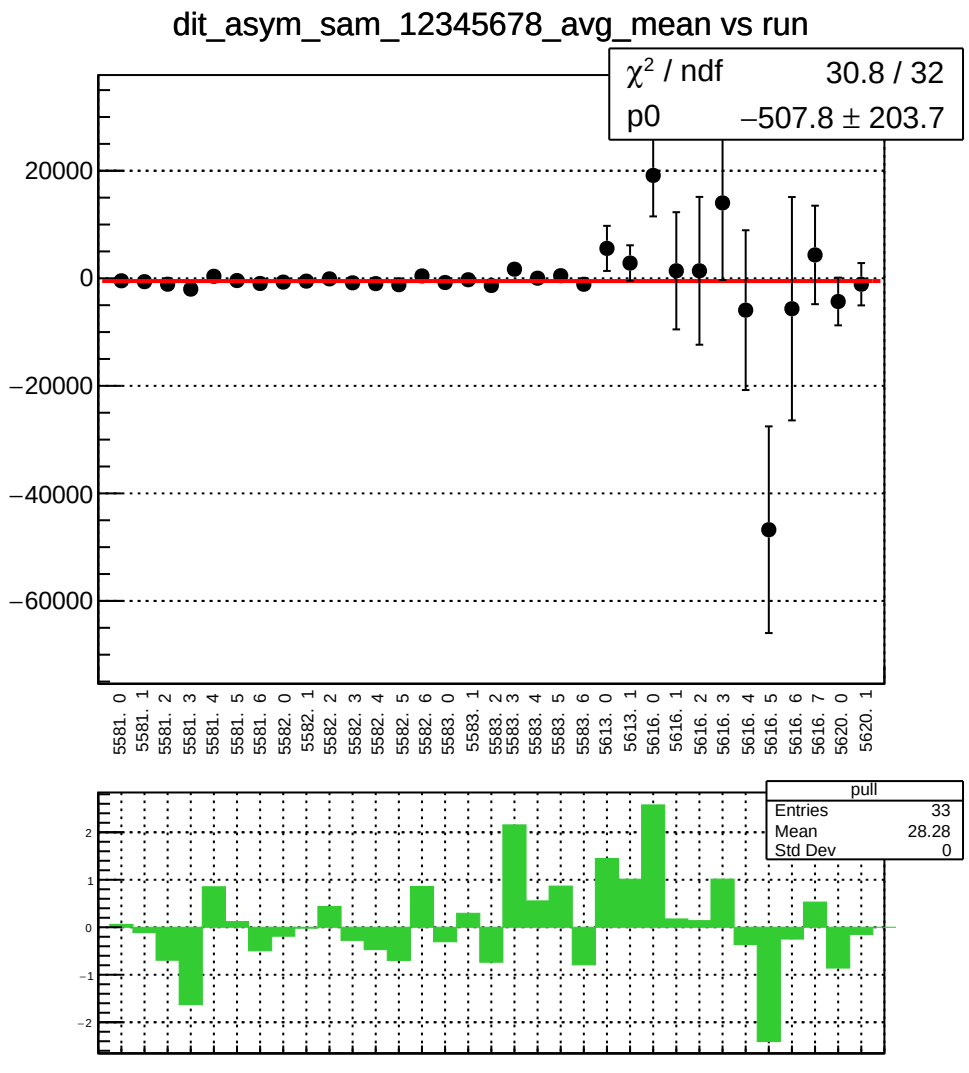

pull1D
Entries 33
Mean 0.09058
Std Dev 0.8549
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

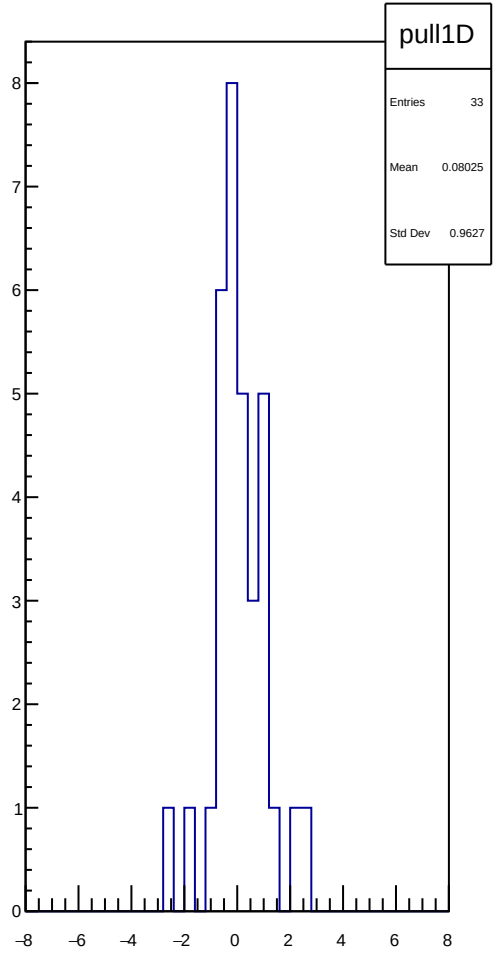

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.898e+05 / 32
p0 77.47 ± 0.114
3000
2500
2000
1500
1000
500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

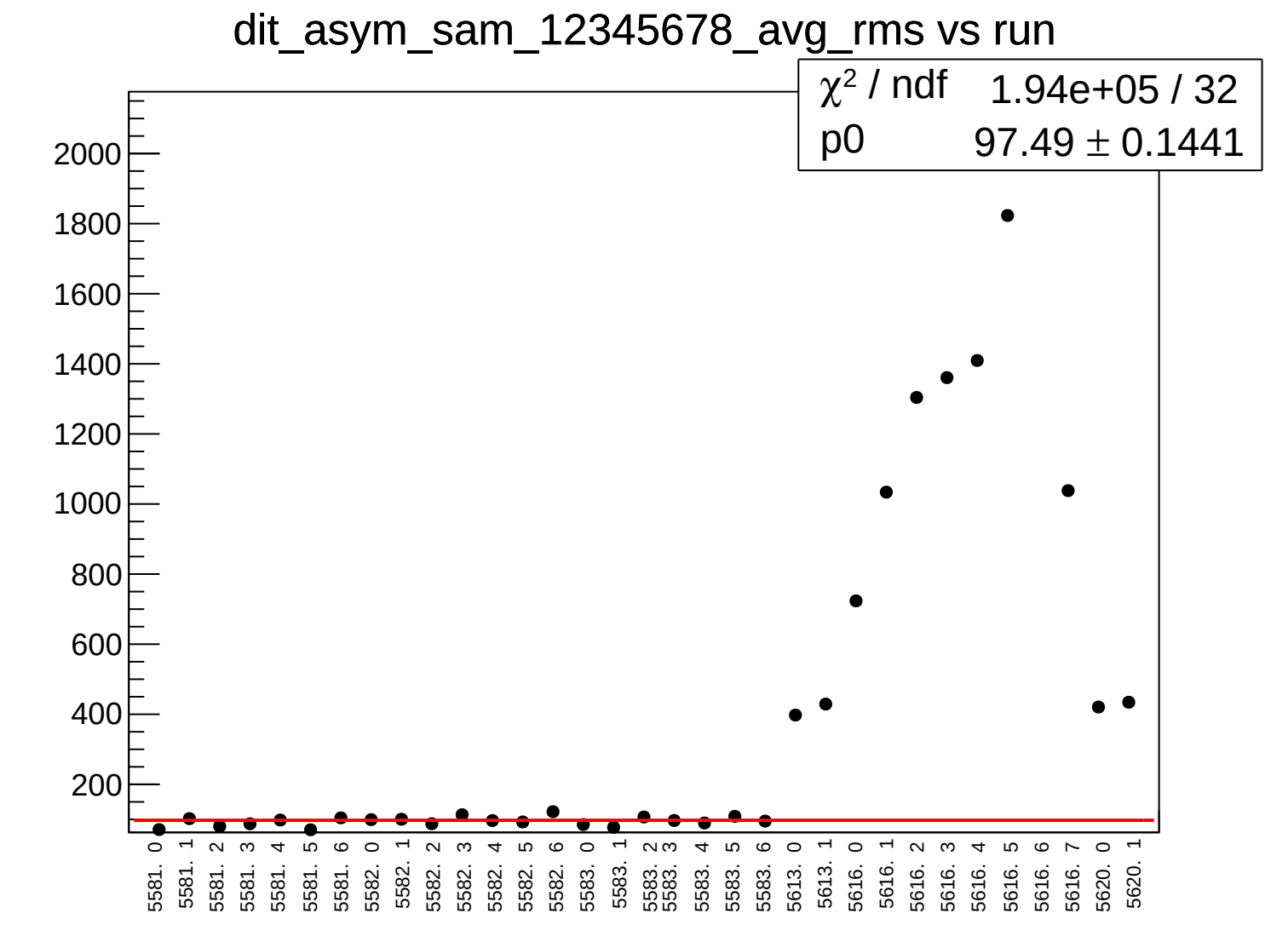

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 33.6 / 25
p0 −1875 ± 2111
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 76.48
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

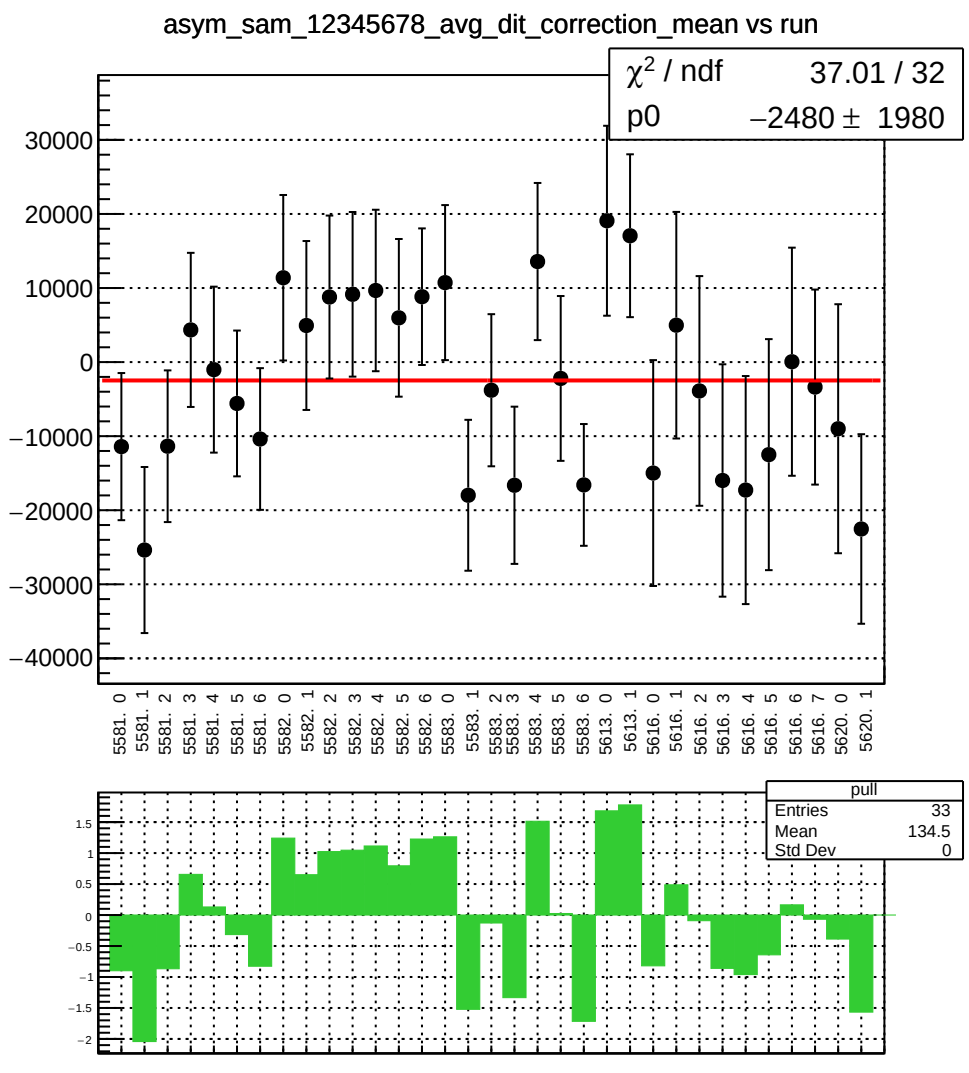

pull1D
Entries 26
Mean 0.006024
Std Dev 1.137
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

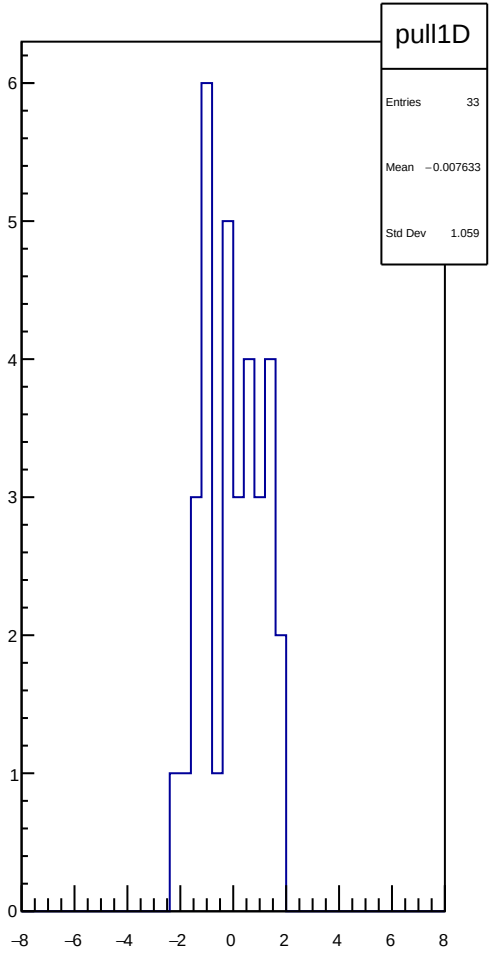

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 5182 / 25
p0 1069 ± 1.493
1600
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

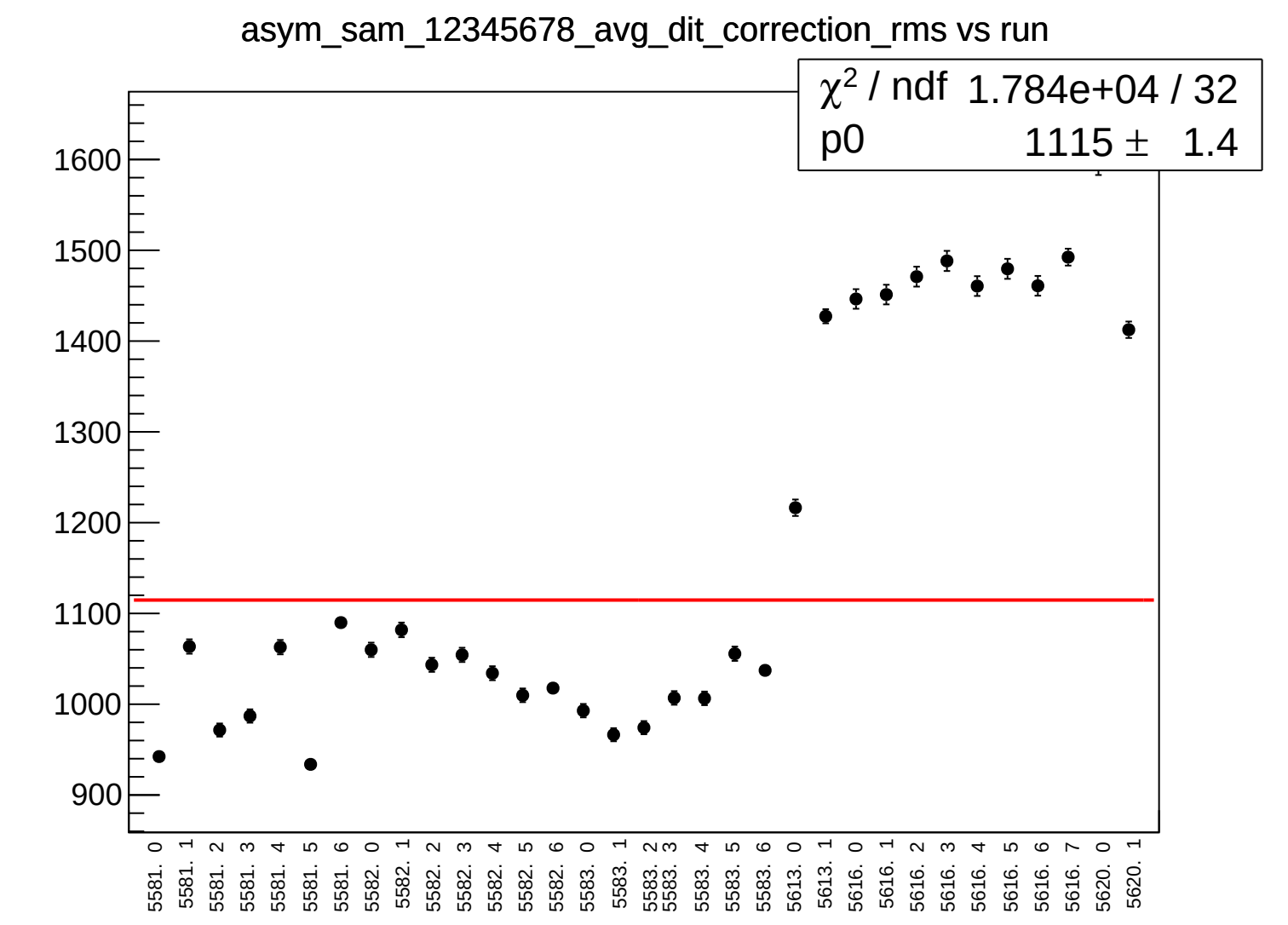

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 30.8 / 32
p0 −507.8 ± 203.7
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.28
Std Dev 0
2
1
0
−1
−2

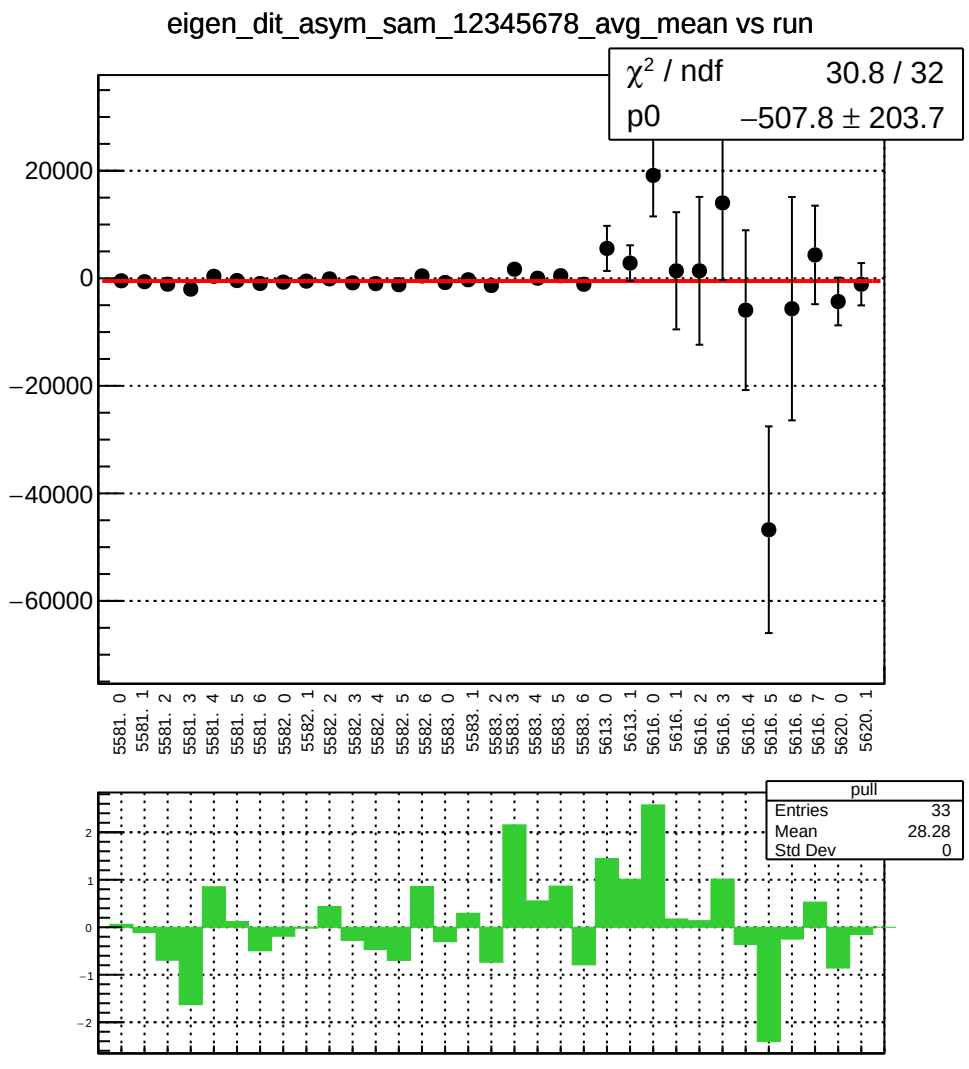

pull1D
Entries 33
Mean 0.08025
Std Dev 0.9627
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

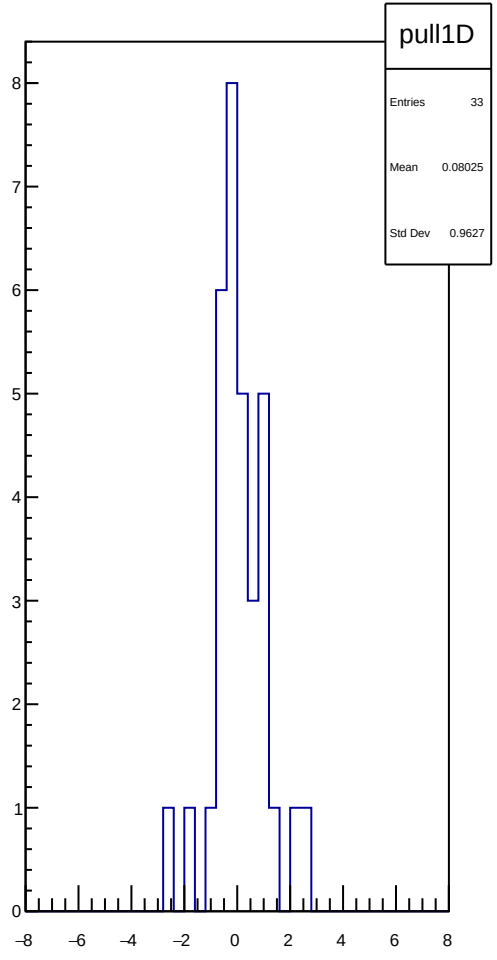

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.94e+05 / 32
p0 97.49 ± 0.1441
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

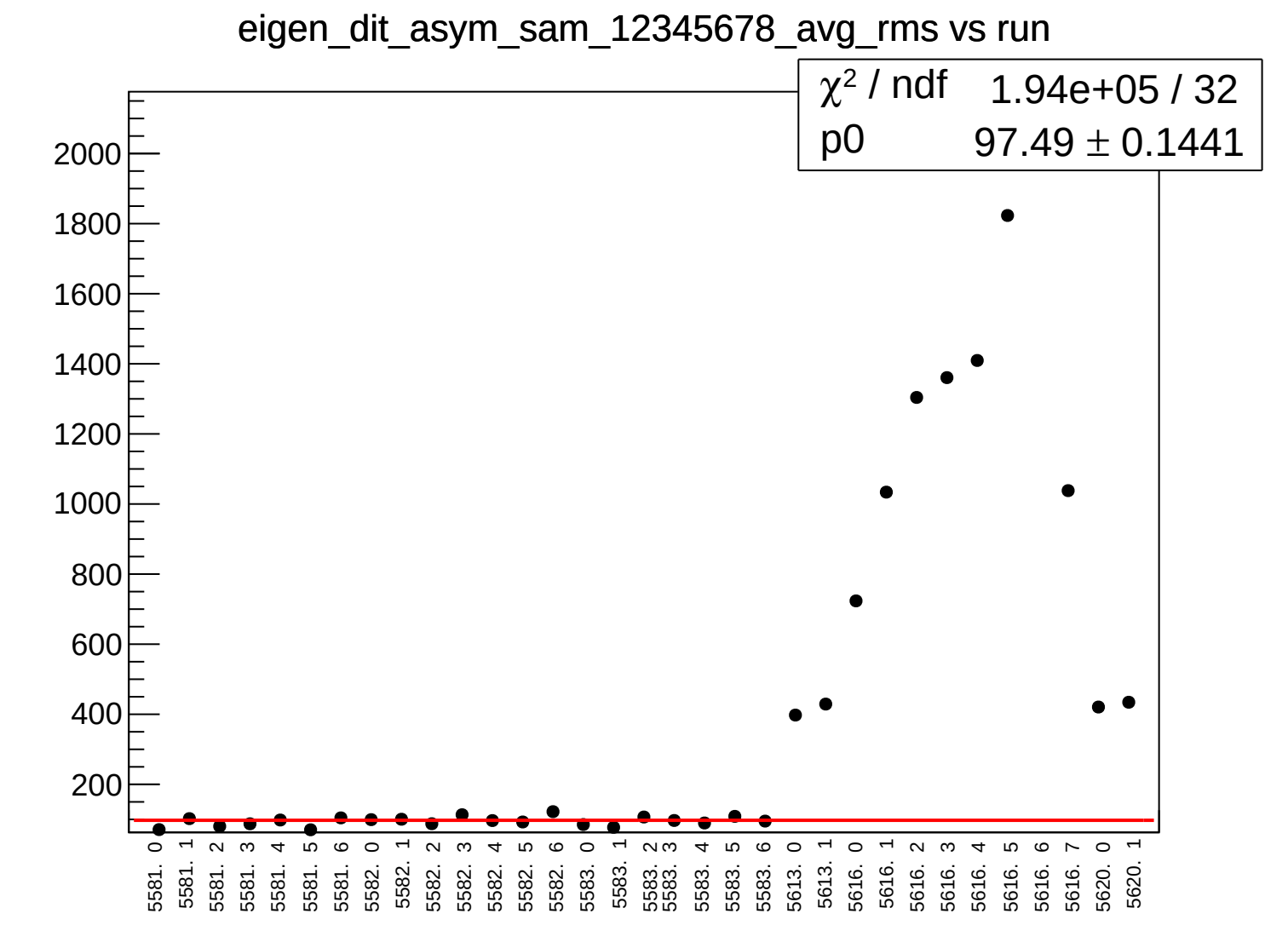

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 37.01 / 32
p0 −2480 ± 1980
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 134.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

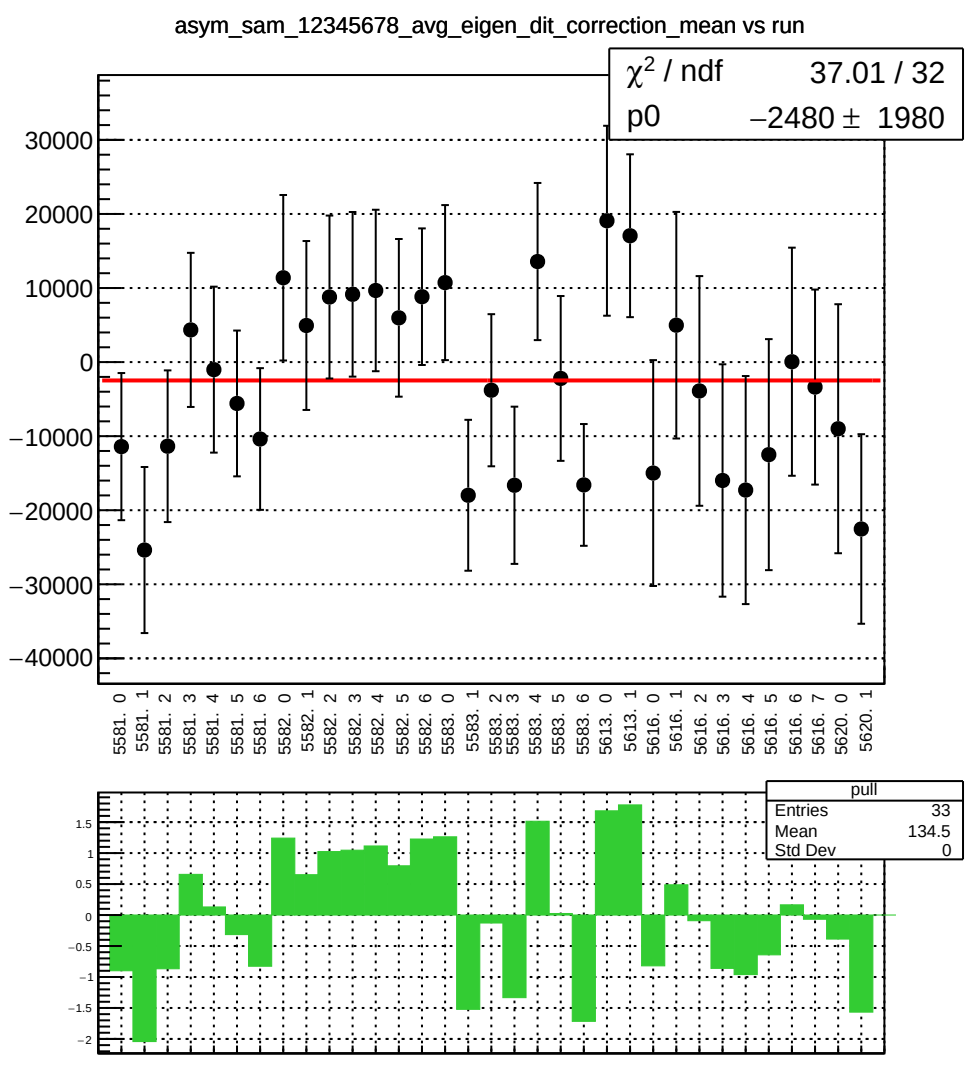

pull1D
Entries 33
Mean −0.007633
Std Dev 1.059
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

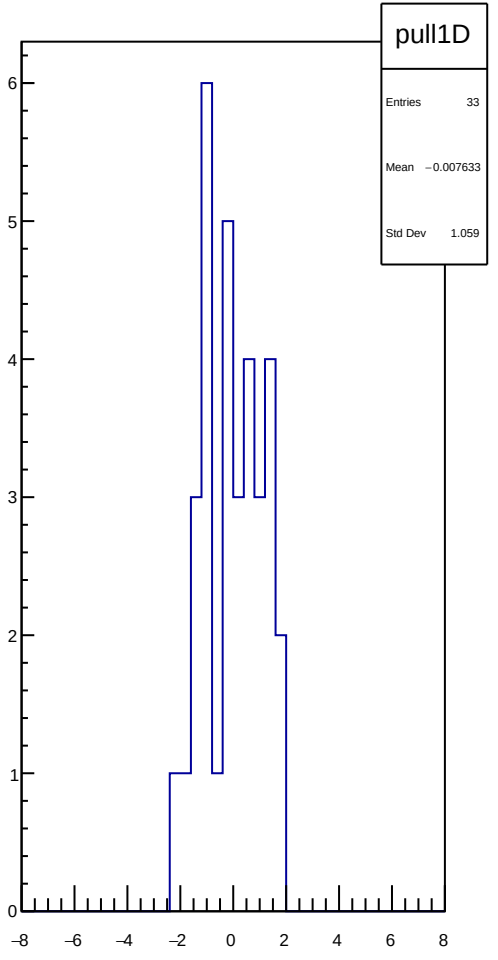

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.784e+04 / 32
p0 1115 ± 1.4
1600
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

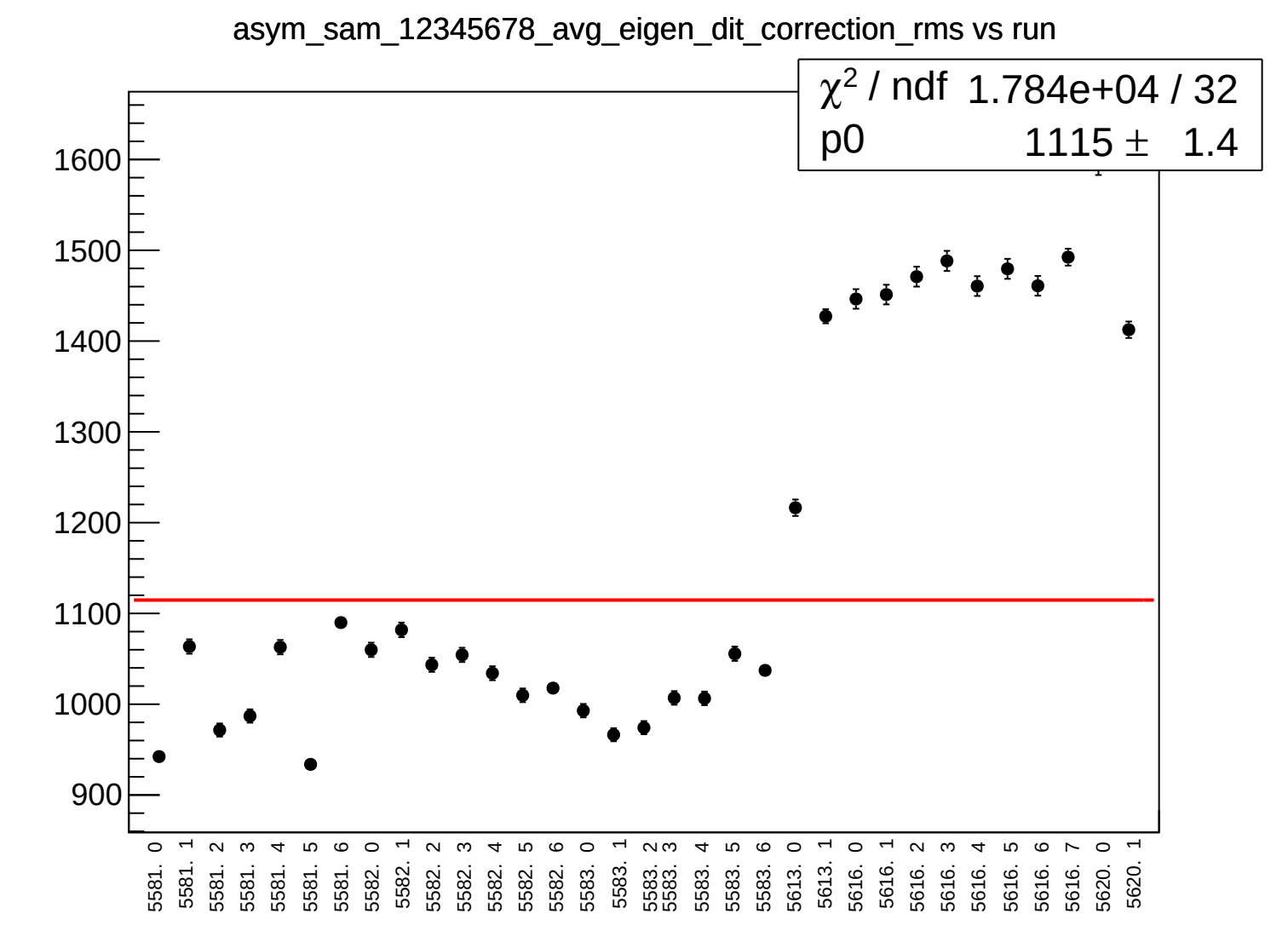

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 30.8 / 32
p0 −507.8 ± 203.7
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.28
Std Dev 0
2
1
0
−1
−2

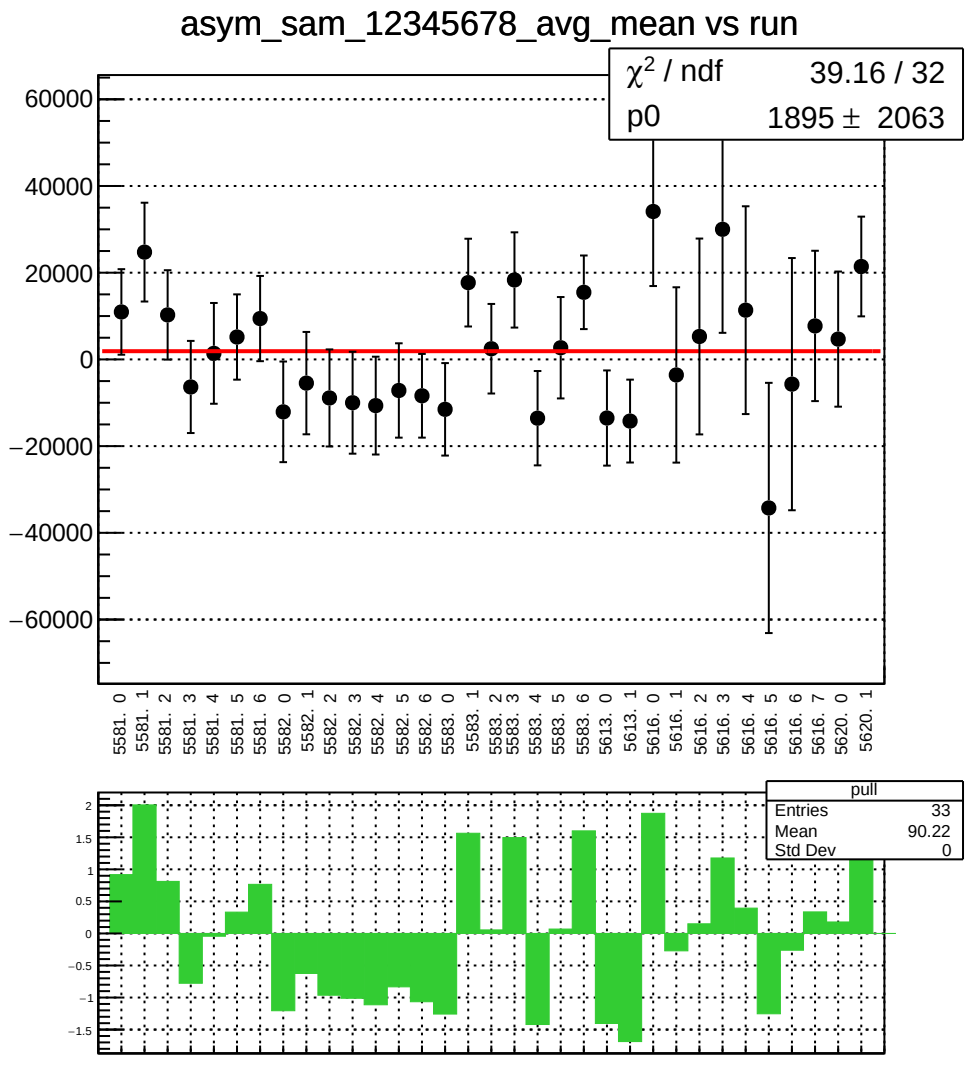

pull1D
Entries 33
Mean 0.08025
Std Dev 0.9627
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

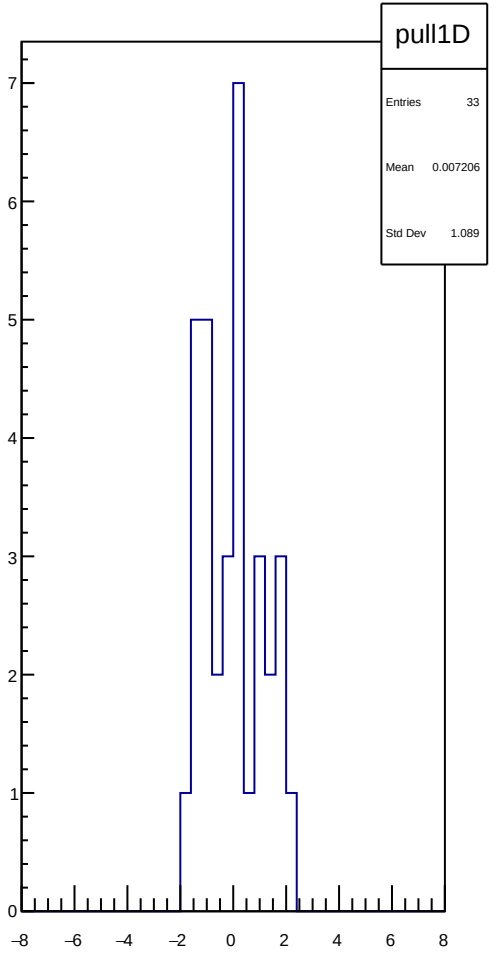

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.94e+05 / 32
p0 97.49 ± 0.1441
2000
1800
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

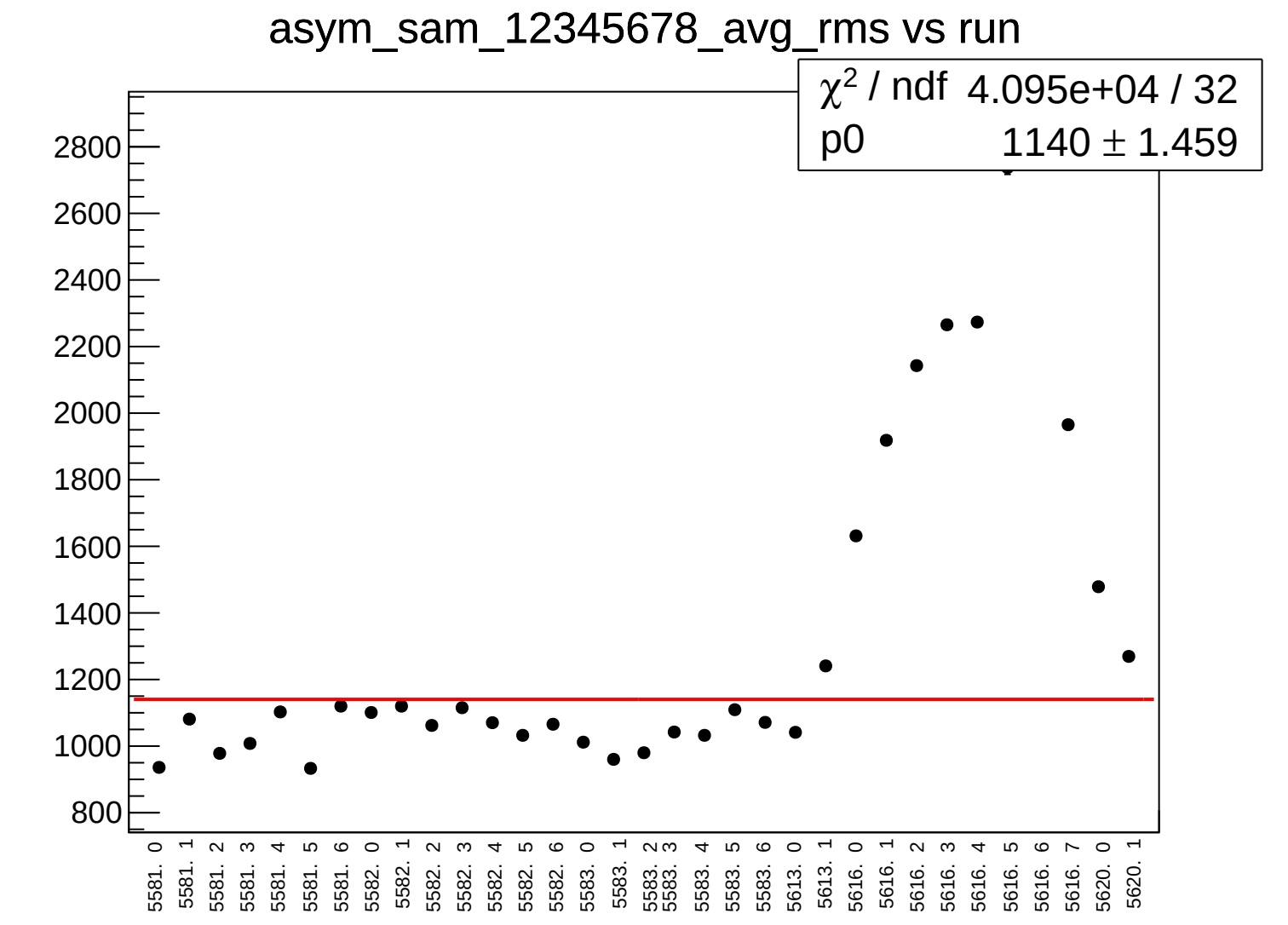

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 37.01 / 32
p0 −2480 ± 1980
30000
20000
10000
0
−10000
−20000
−30000
−40000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 134.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

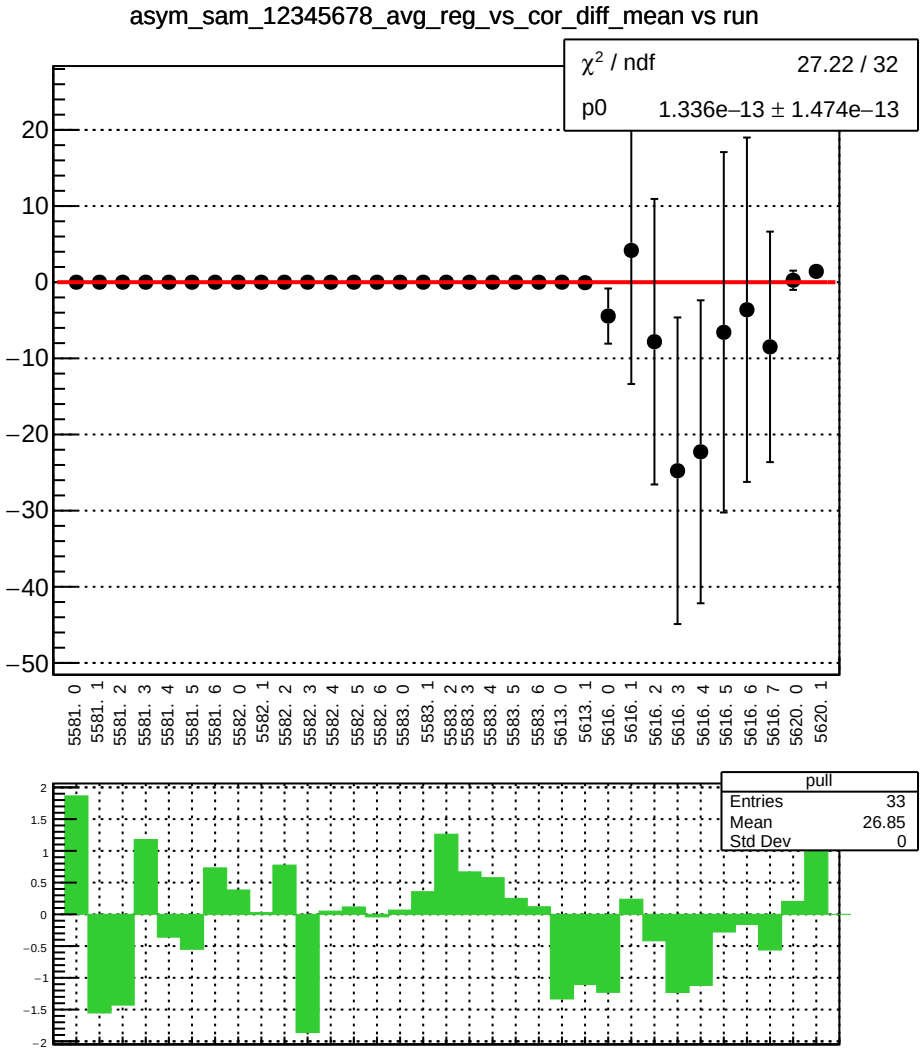

pull1D
Entries 33
Mean −0.007633
Std Dev 1.059
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

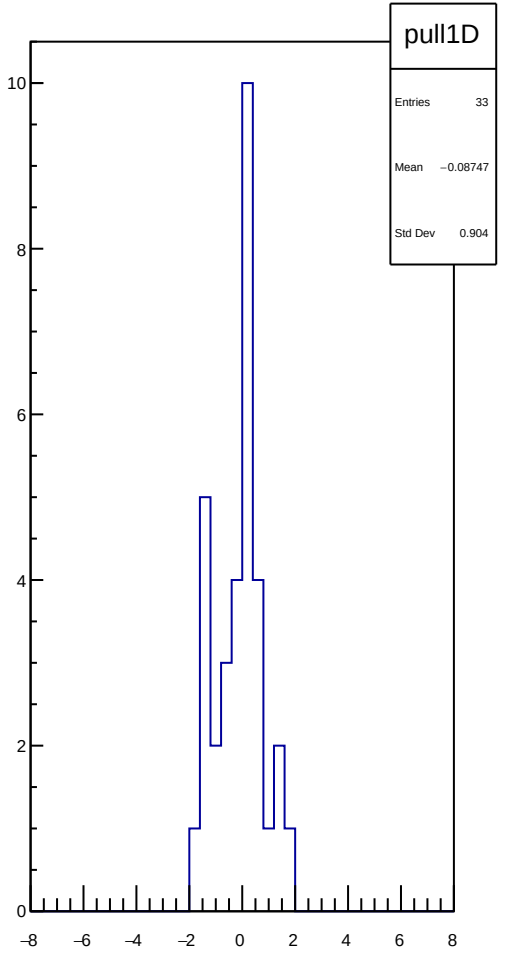

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.784e+04 / 32
p0 1115 ± 1.4
1600
1500
1400
1300
1200
1100
1000
900
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

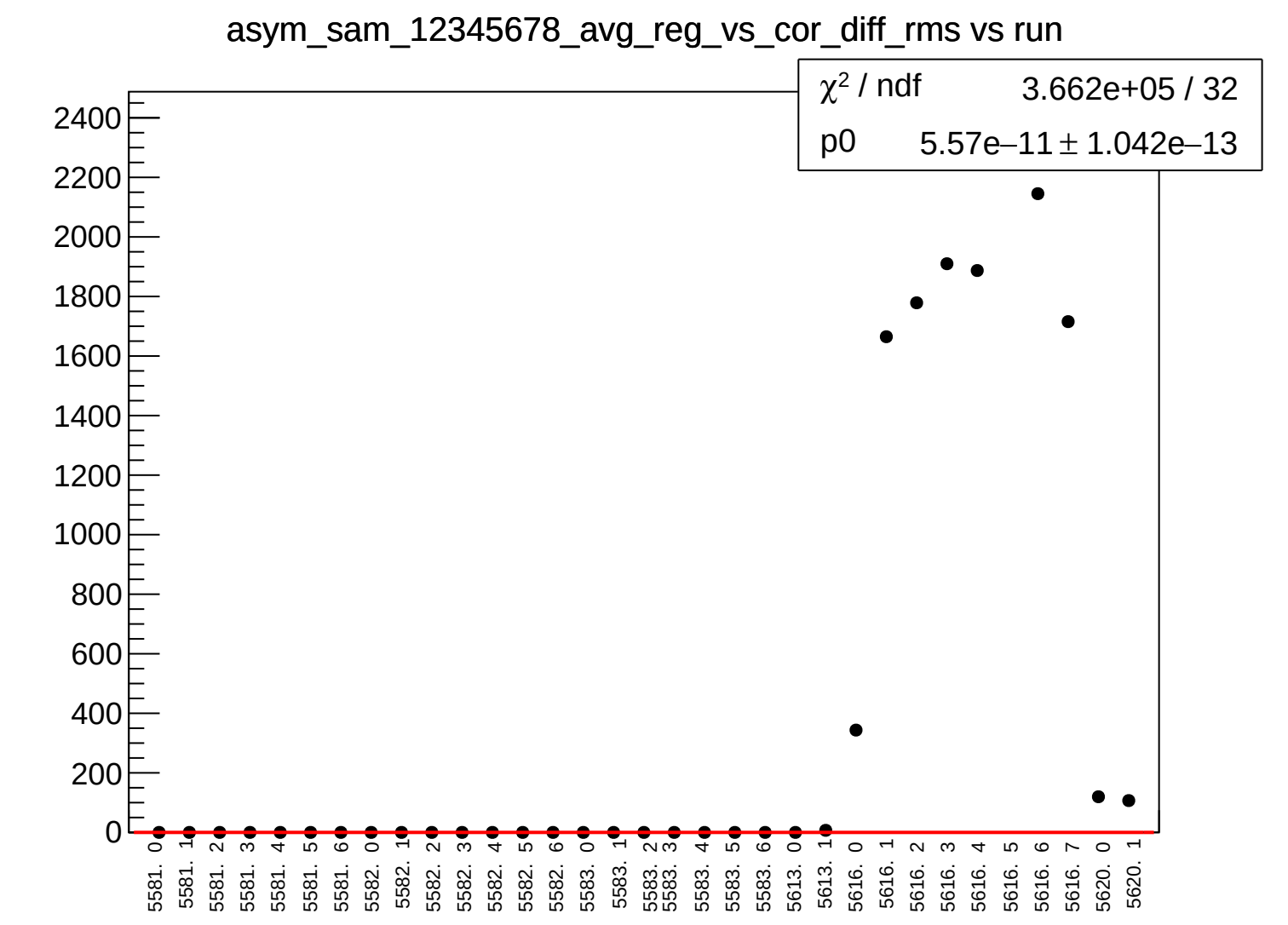

asym_sam_12345678_avg_mean vs run
χ² / ndf 39.16 / 32
p0 1895 ± 2063
60000
40000
20000
0
−20000
−40000
−60000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 90.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

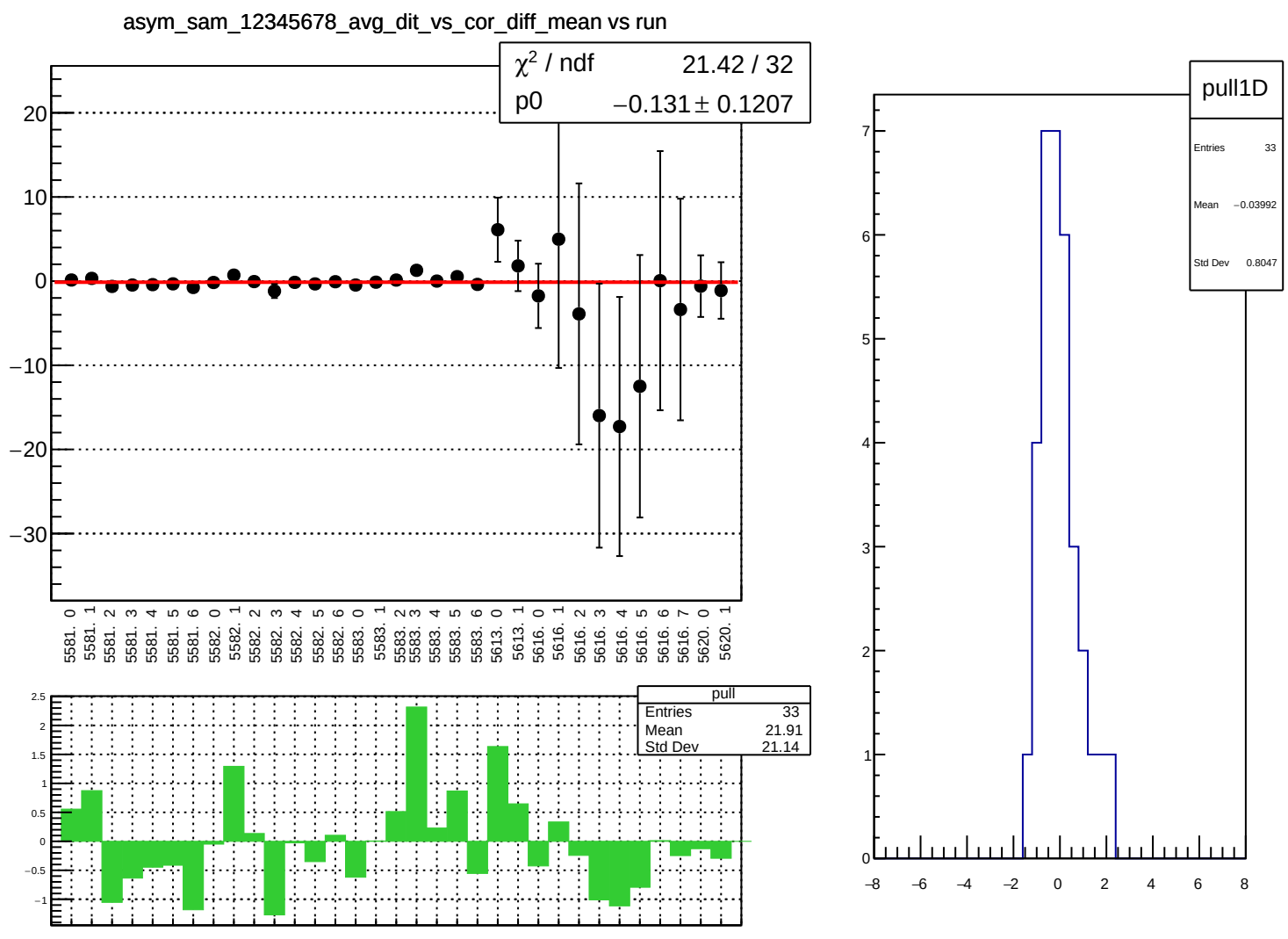

pull1D
Entries 33
Mean 0.007206
Std Dev 1.089
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

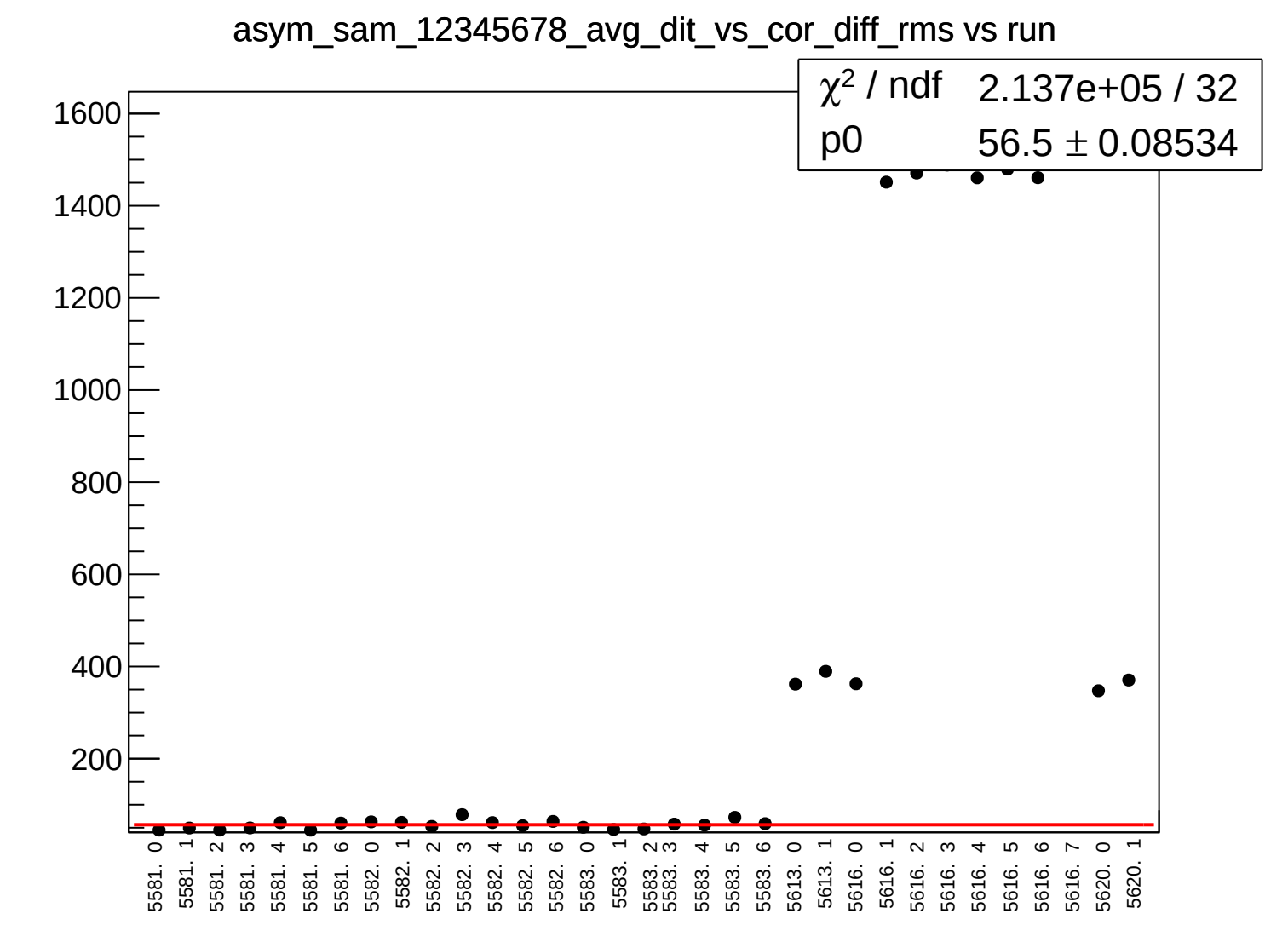

asym_sam_12345678_avg_rms vs run
χ² / ndf 4.095e+04 / 32
p0 1140 ± 1.459
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

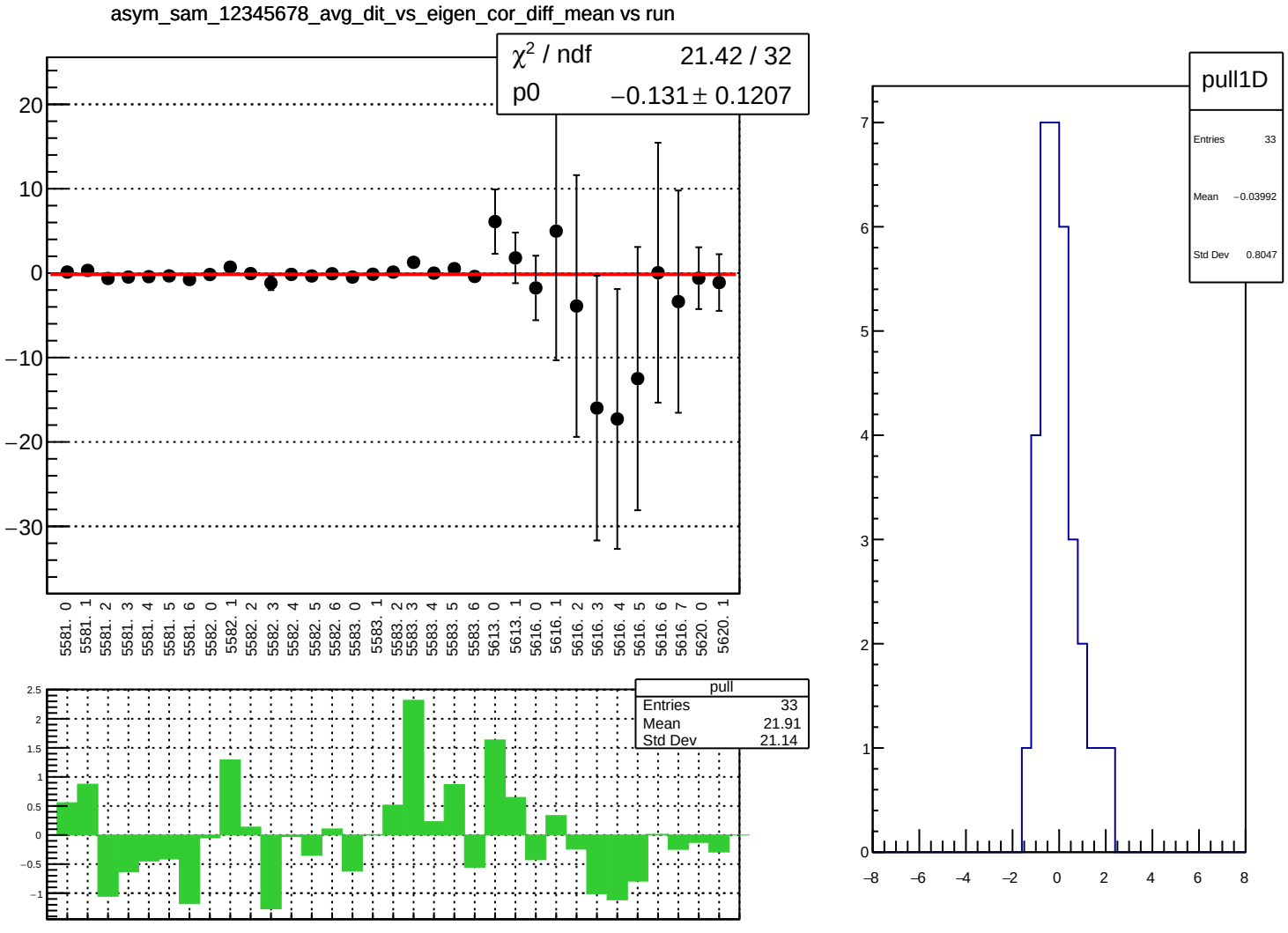

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 27.22 / 32
p0 1.336e−13 ± 1.474e−13
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

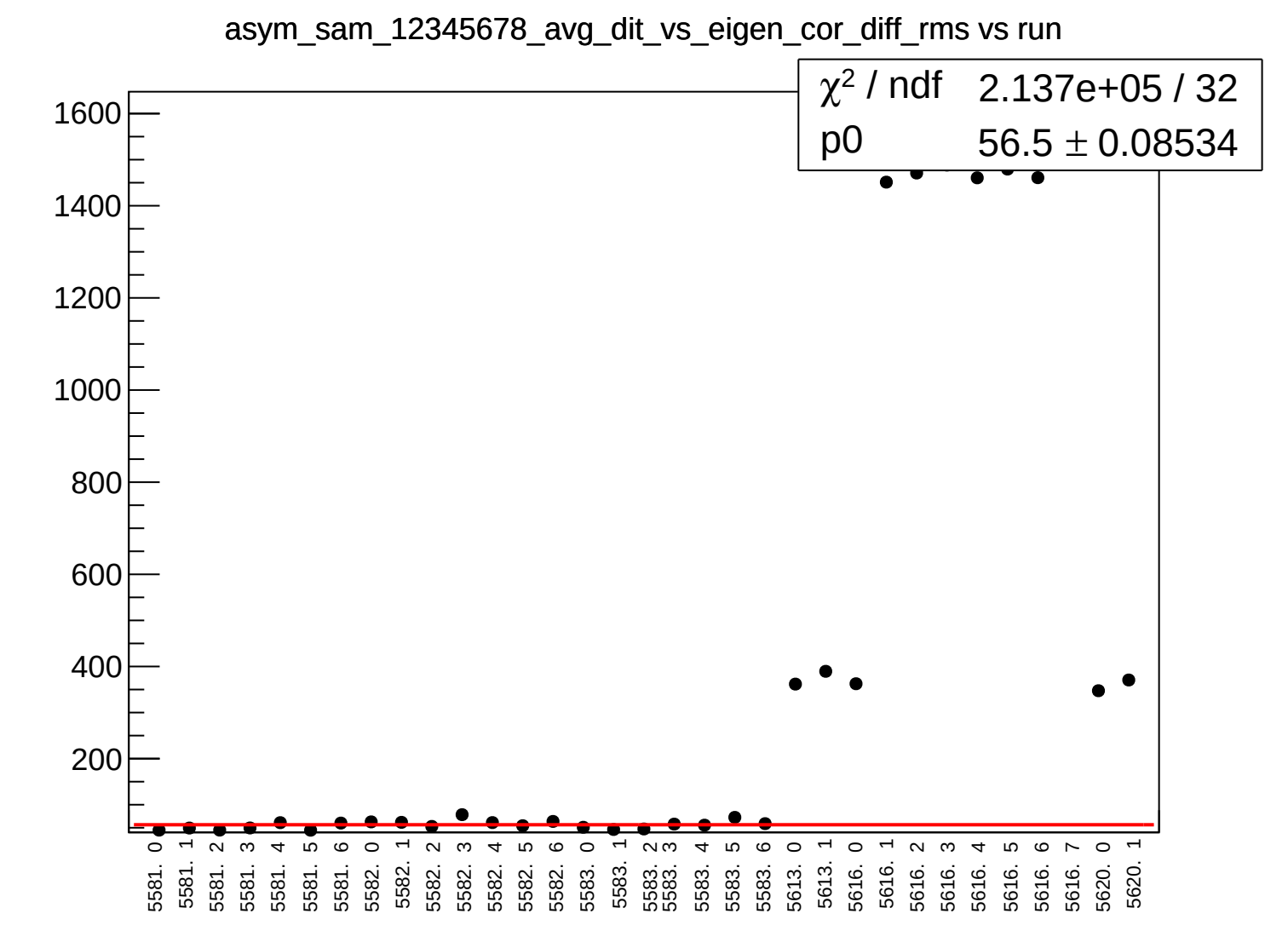

pull1D
Entries 33
Mean −0.08747
Std Dev 0.904
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

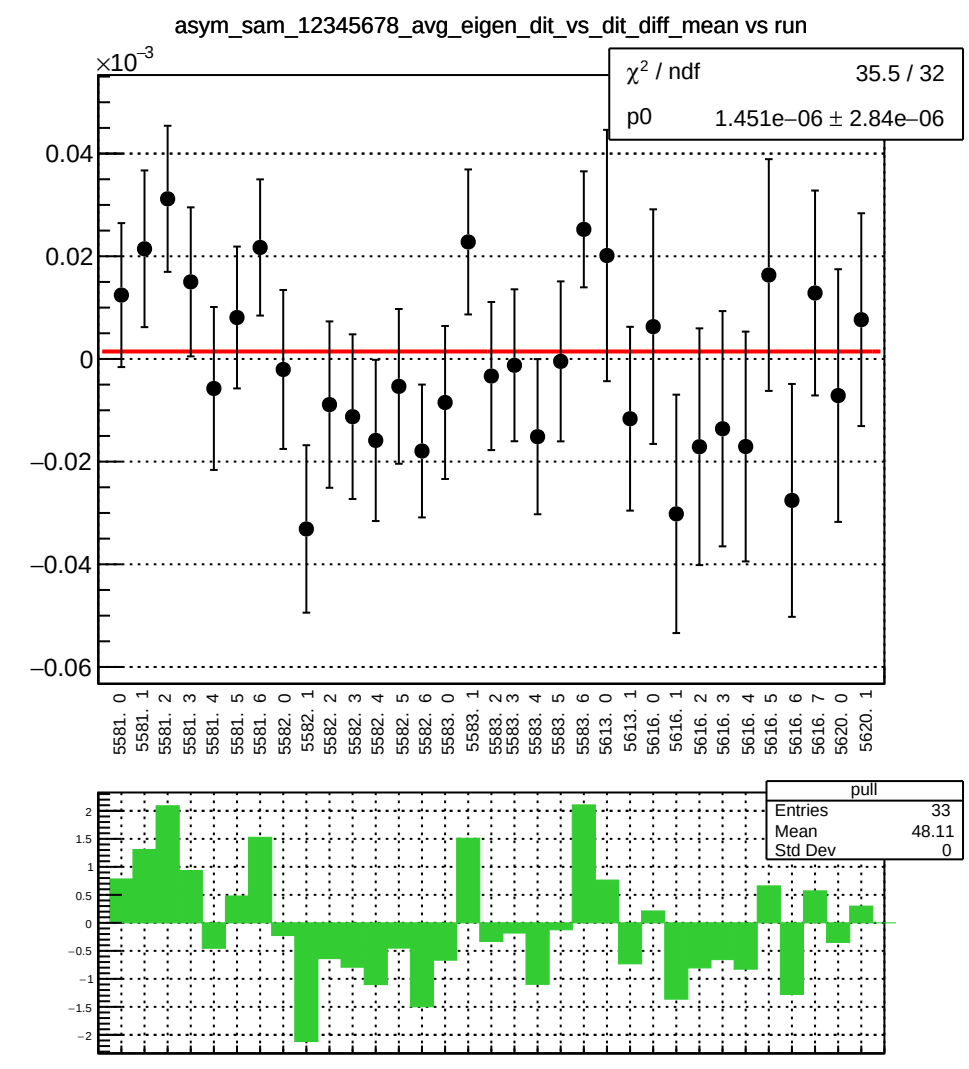

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 3.662e+05 / 32
p0 5.57e−11 ± 1.042e−13
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

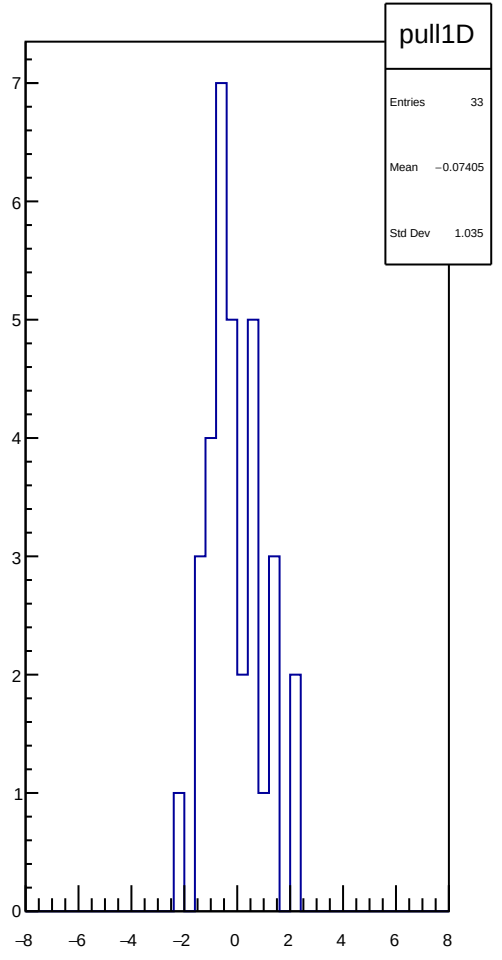

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 21.42 / 32
p0 −0.131 ± 0.1207
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.91
Std Dev 21.14
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.03992
Std Dev 0.8047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

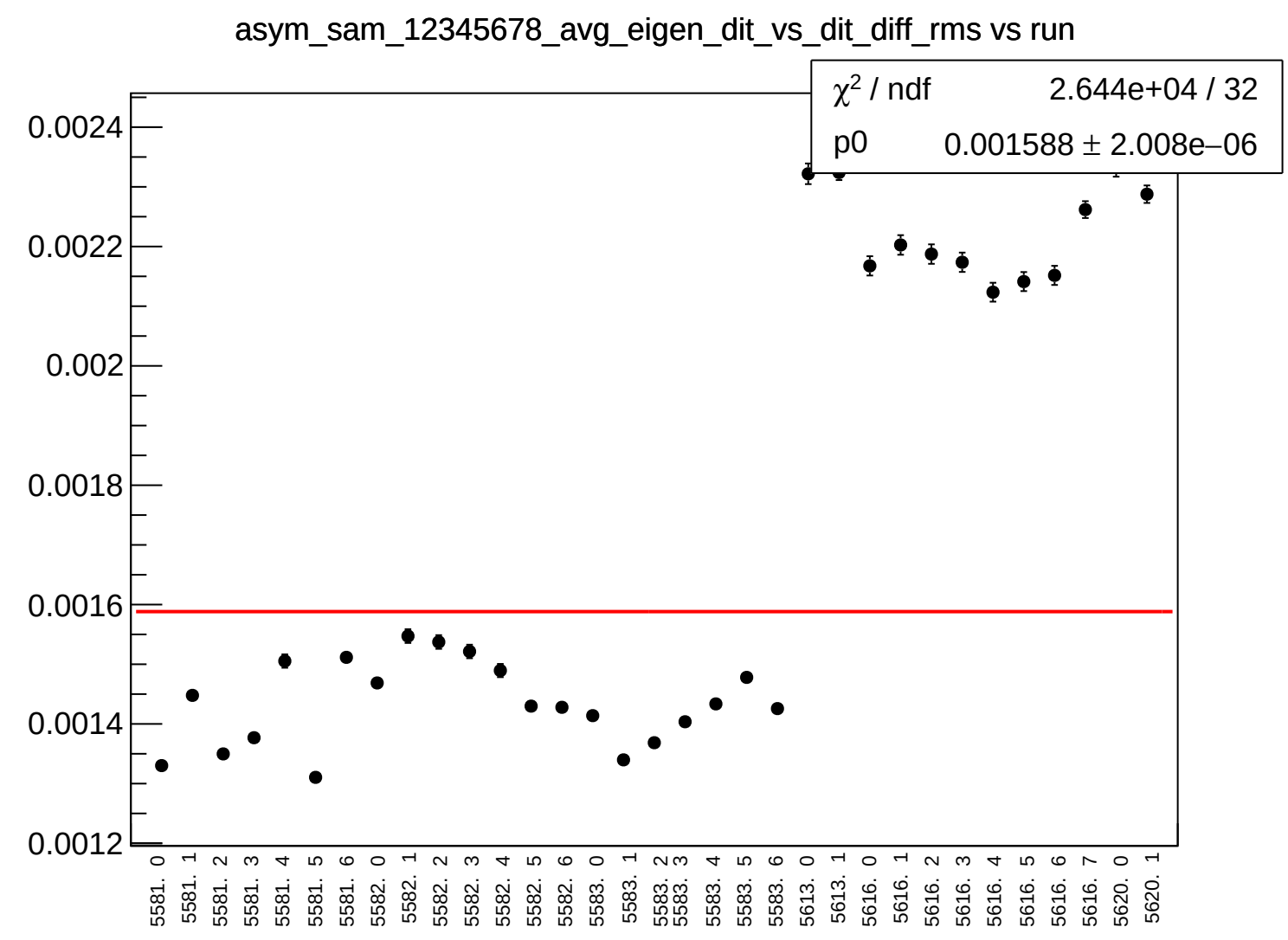

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.137e+05 / 32
p0 56.5 ± 0.08534
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

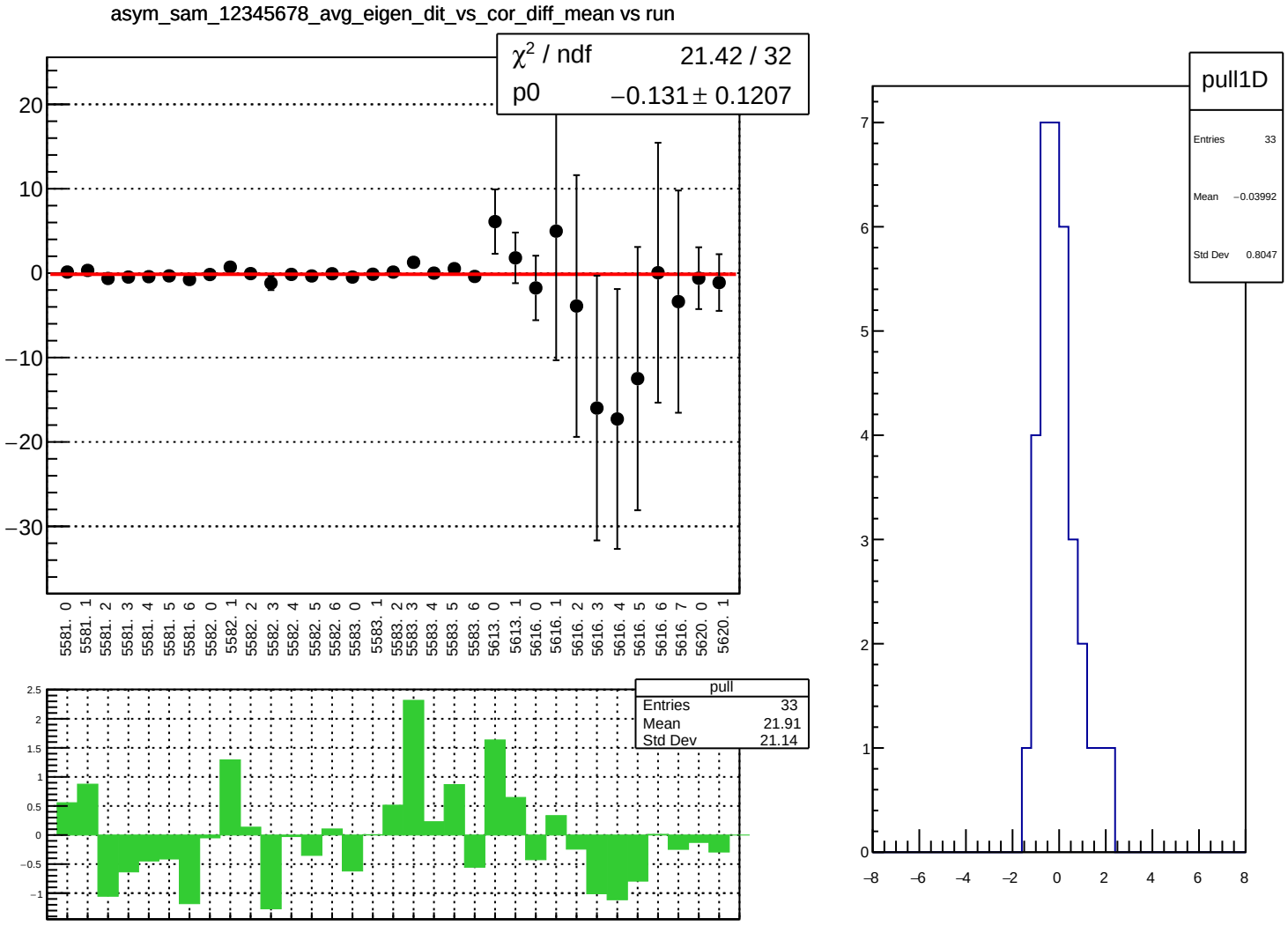

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.42 / 32
p0 −0.131 ± 0.1207
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.91
Std Dev 21.14
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.03992
Std Dev 0.8047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

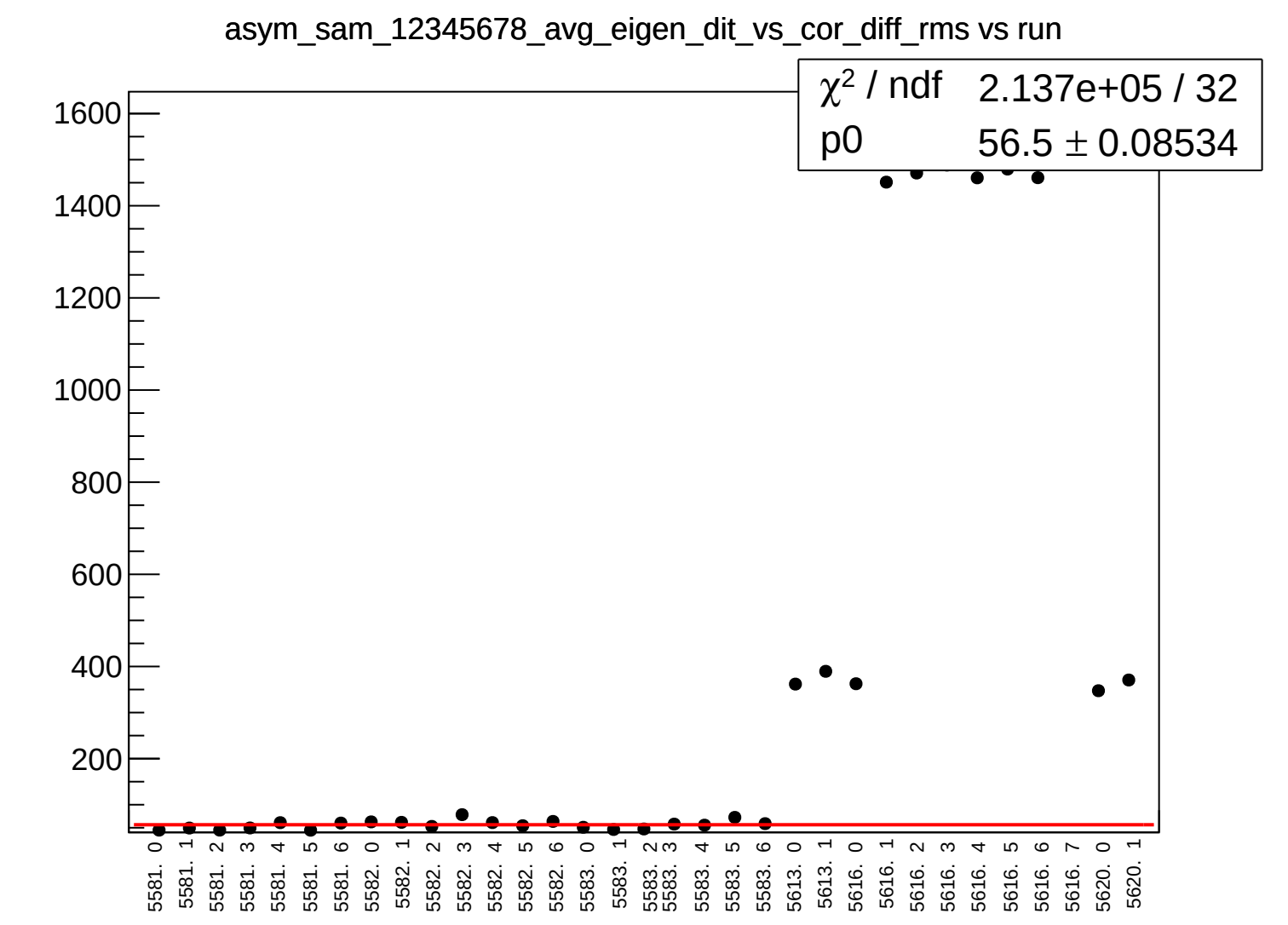

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.137e+05 / 32
p0 56.5 ± 0.08534
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

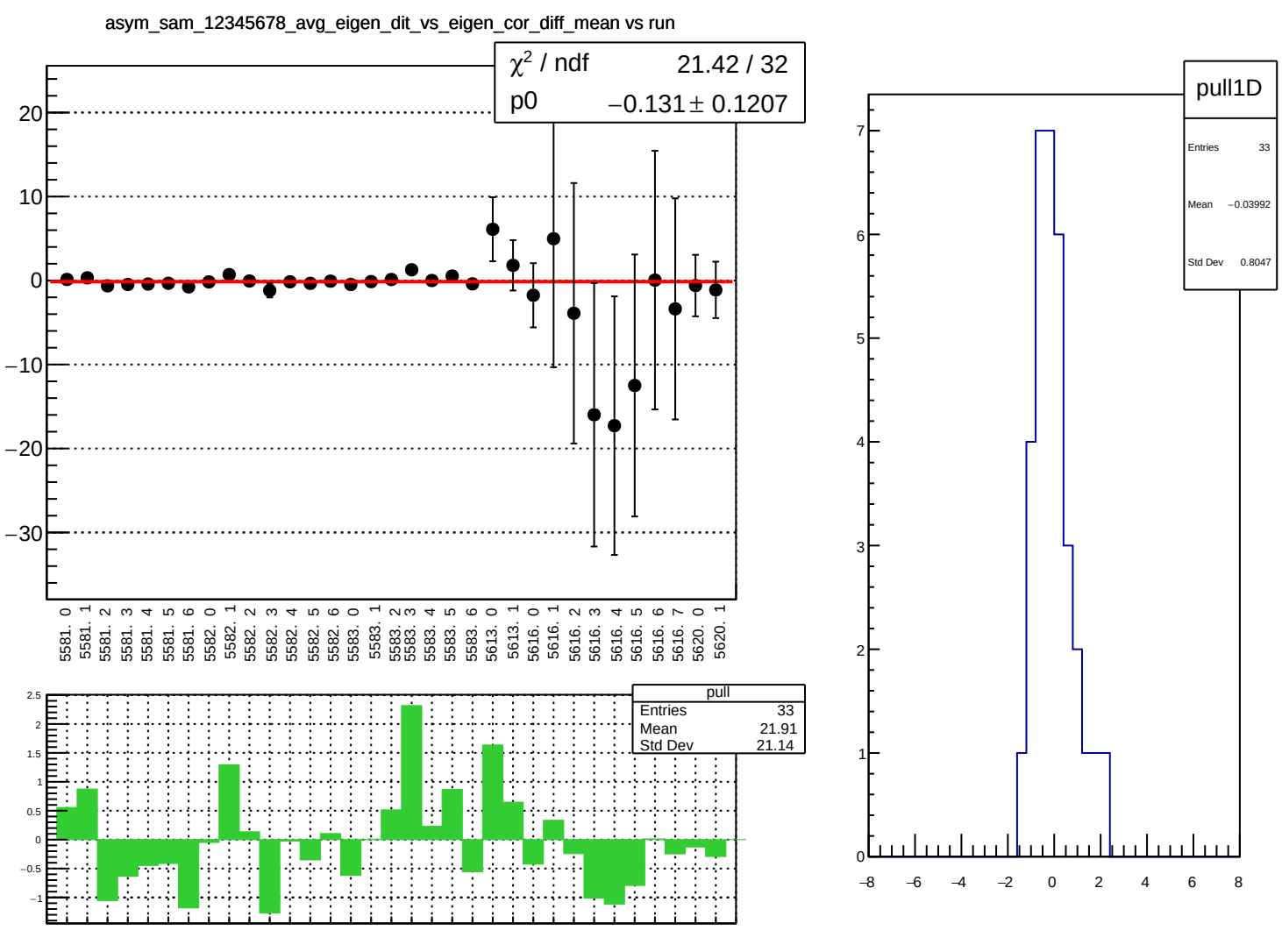

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 35.5 / 32
p0 1.451e−06 ± 2.84e−06
0.04
0.02
0
−0.02
−0.04
−0.06
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 48.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

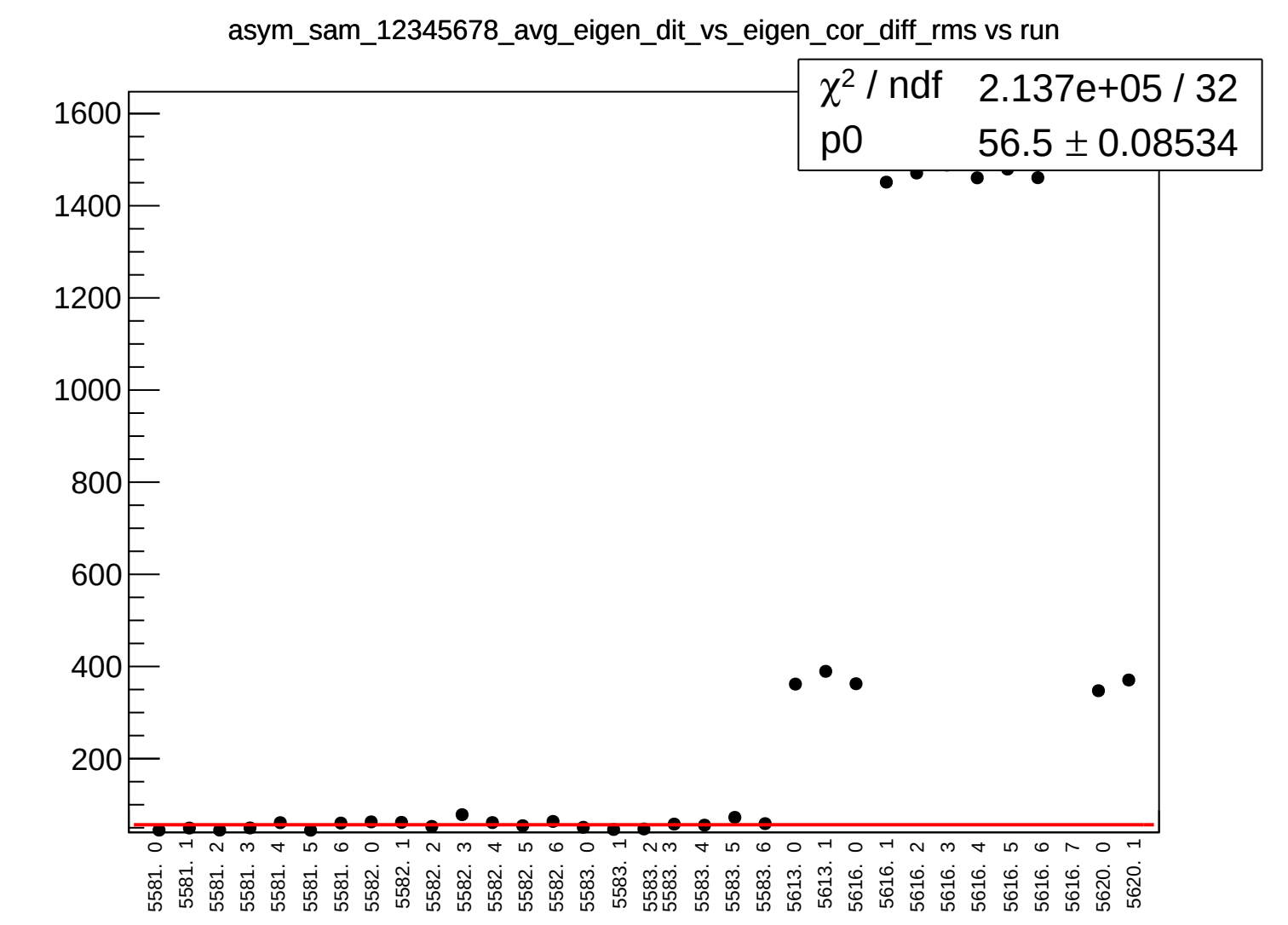

pull1D
Entries 33
Mean −0.07405
Std Dev 1.035
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

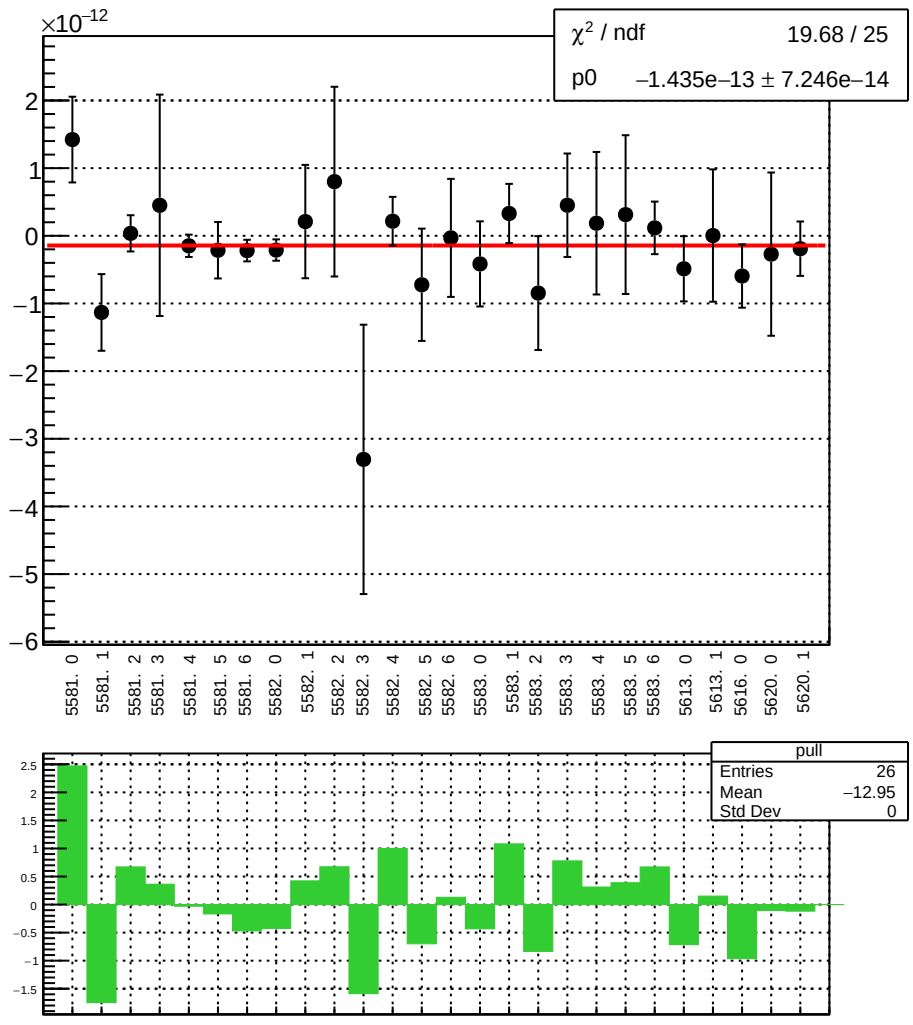

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.644e+04 / 32
p0 0.001588 ± 2.008e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

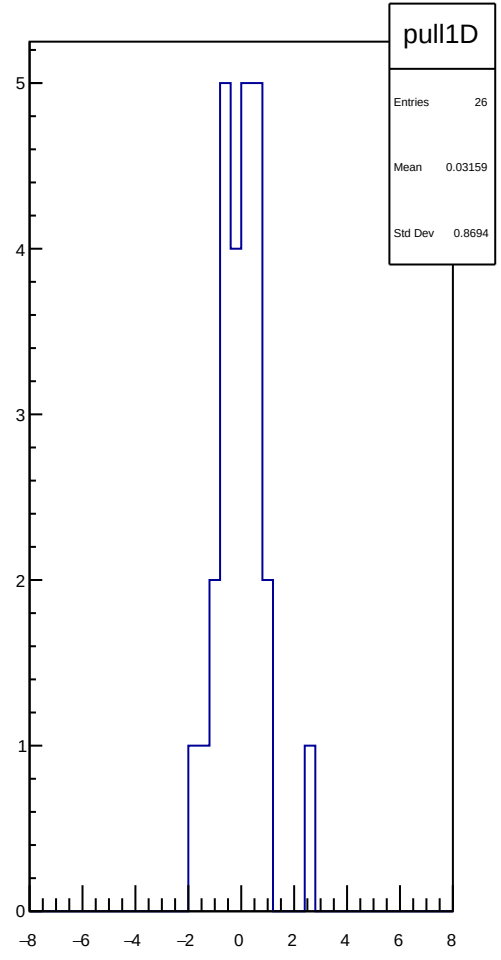

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 21.42 / 32
p0 −0.131 ± 0.1207
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.91
Std Dev 21.14
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.03992
Std Dev 0.8047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

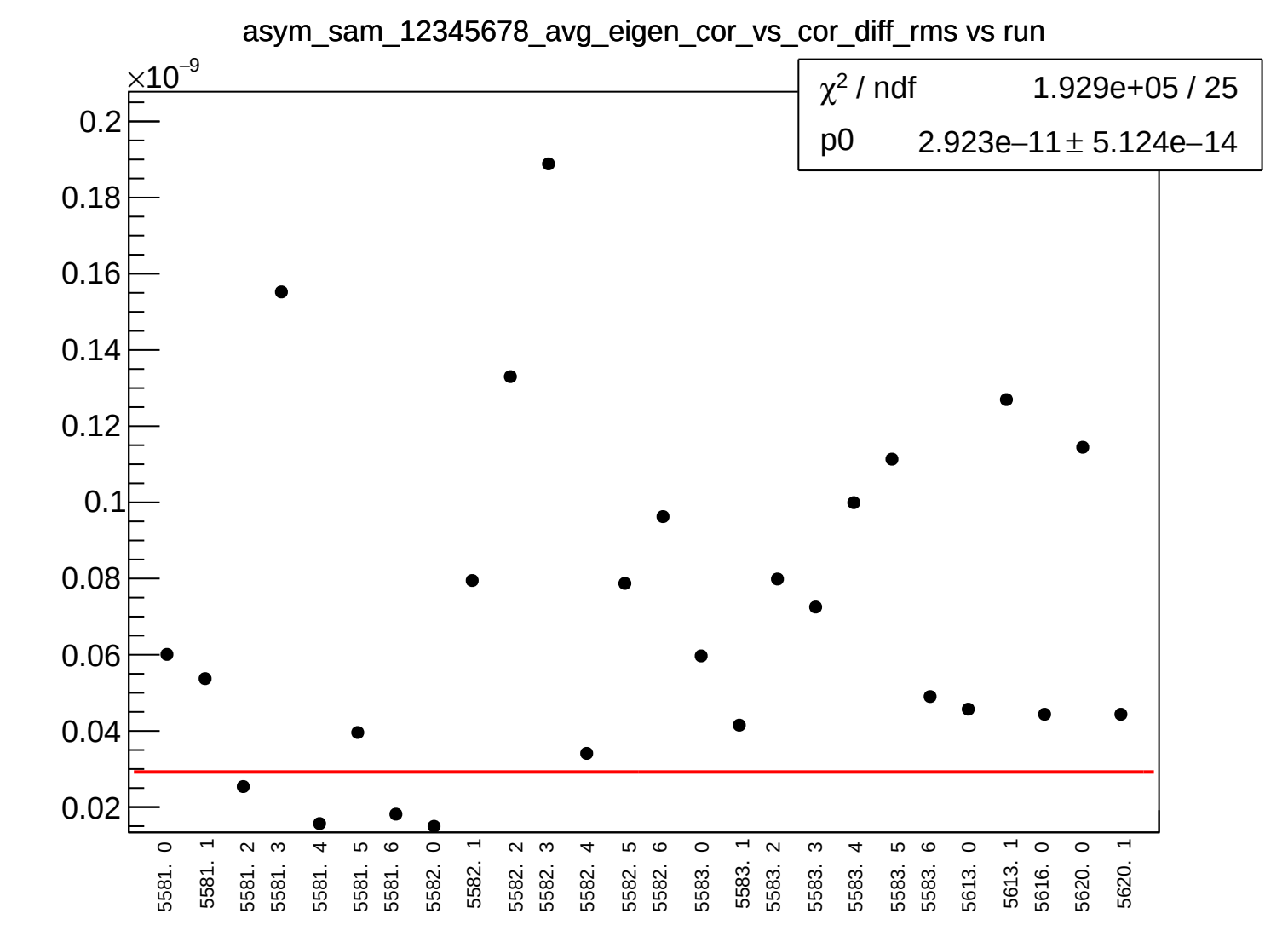

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.137e+05 / 32
p0 56.5 ± 0.08534
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

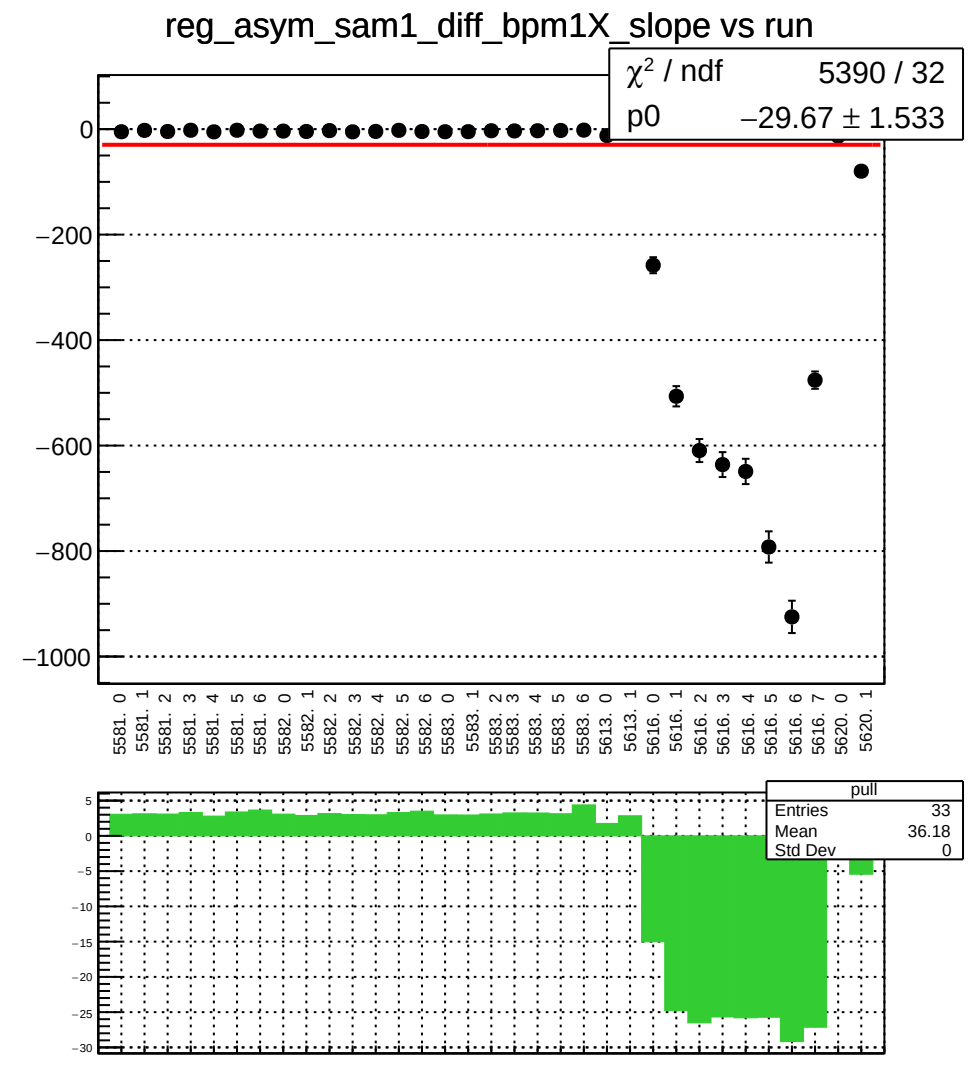

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 21.42 / 32
p0 −0.131 ± 0.1207
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.91
Std Dev 21.14
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.03992
Std Dev 0.8047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

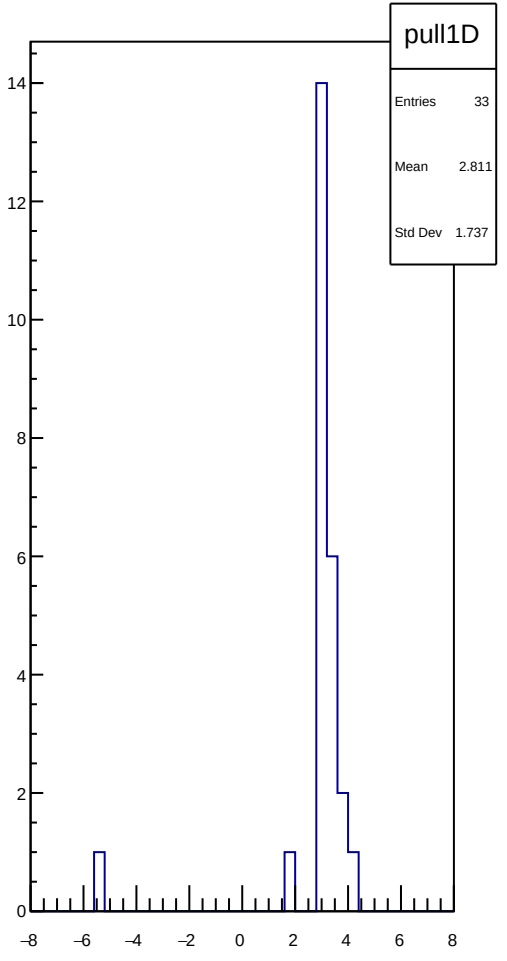

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.137e+05 / 32
p0 56.5 ± 0.08534
1600
1400
1200
1000
800
600
400
200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1

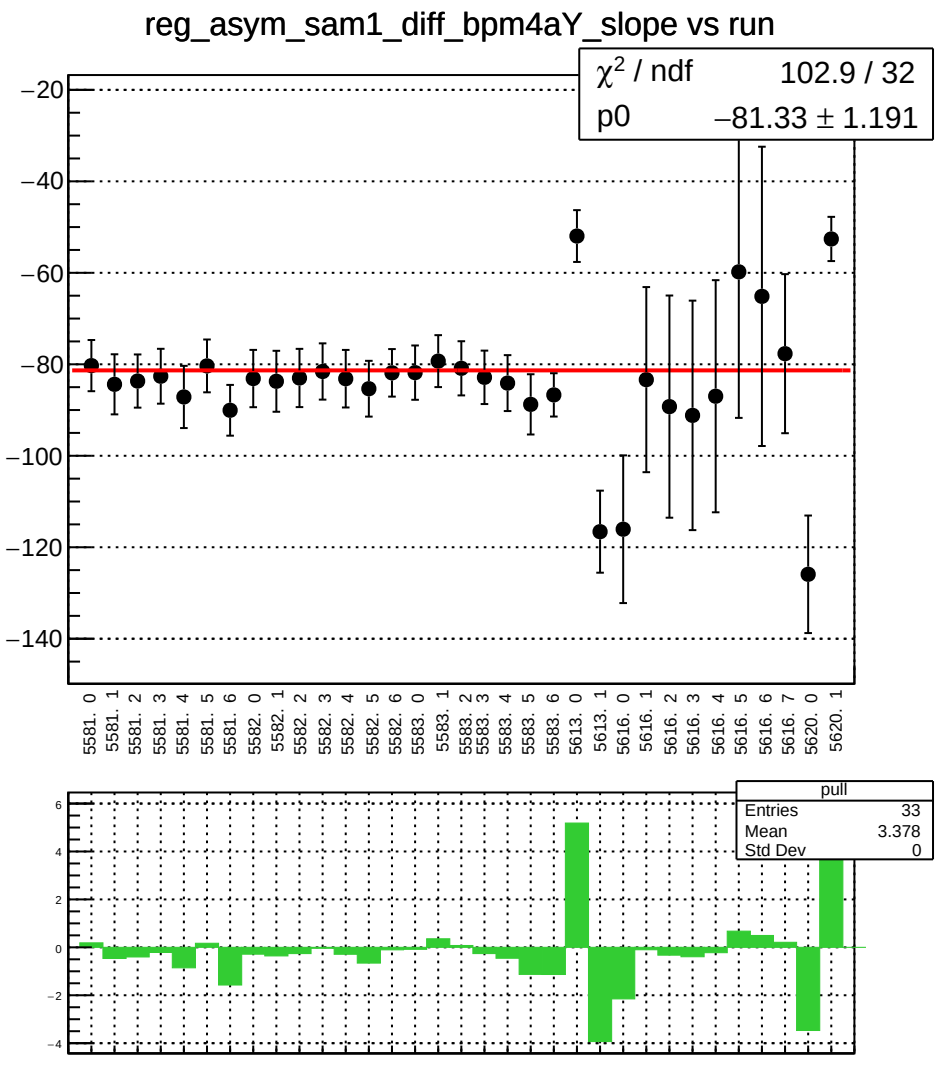

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 19.68 / 25
p0 −1.435e−13 ± 7.246e−14
pull
Entries 26
Mean −12.95
Std Dev 0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

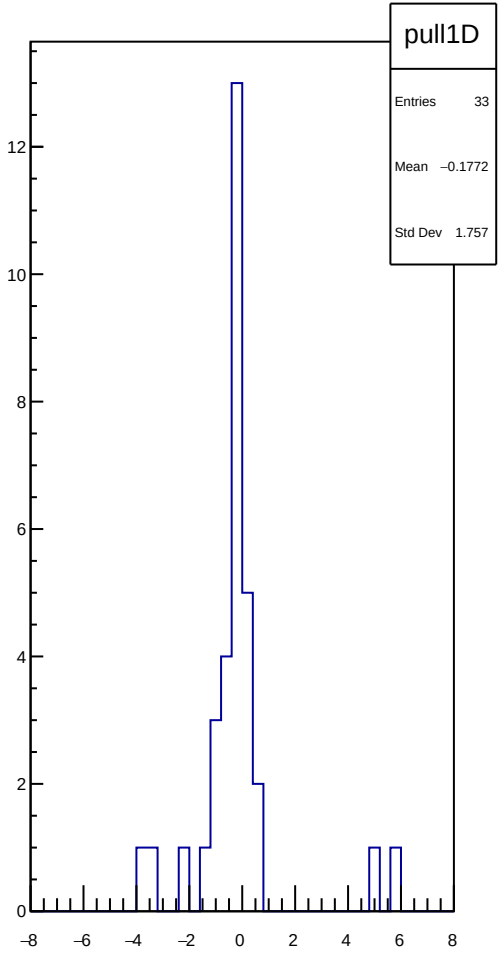

pull1D
Entries 26
Mean 0.03159
Std Dev 0.8694

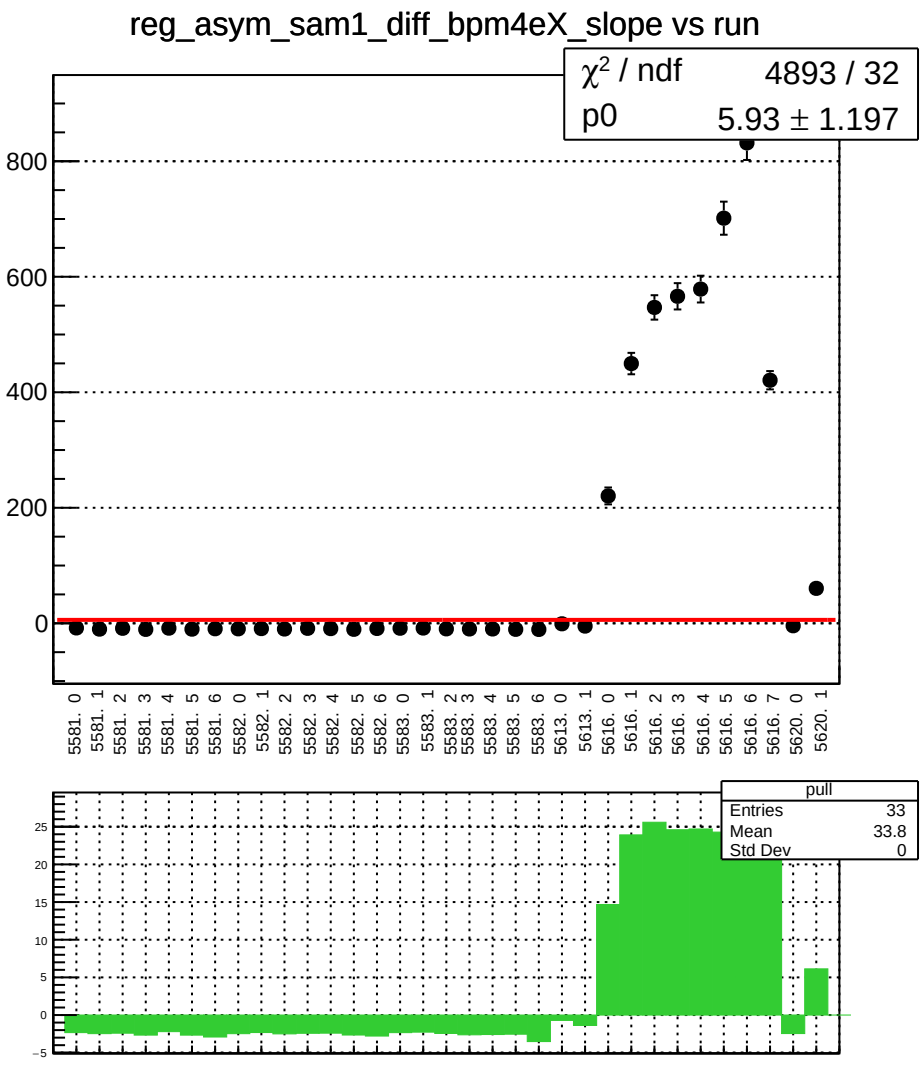

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.929e+05 / 25
p0 2.923e−11 ± 5.124e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1

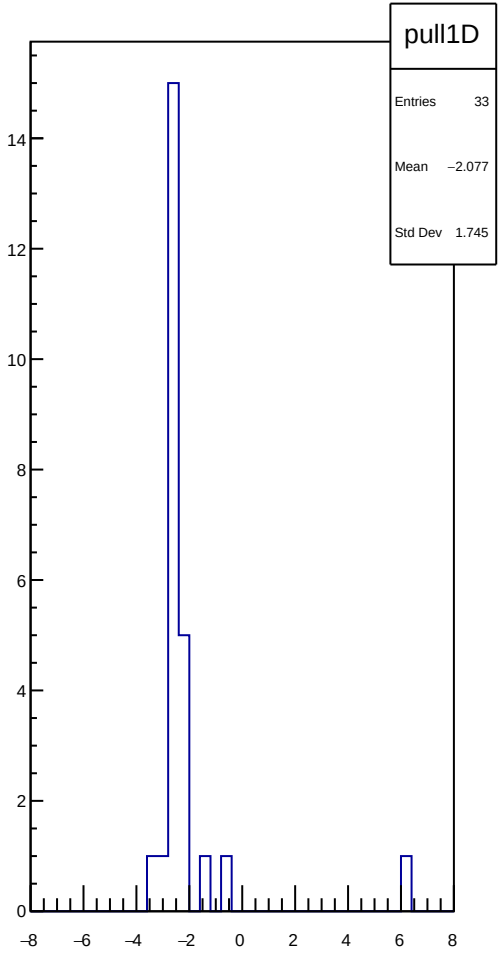

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 5390 / 32
p0 −29.67 ± 1.533
0
−200
−400
−600
−800
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.18
Std Dev 0
5
0
−5
−10
−15
−20
−25
−30

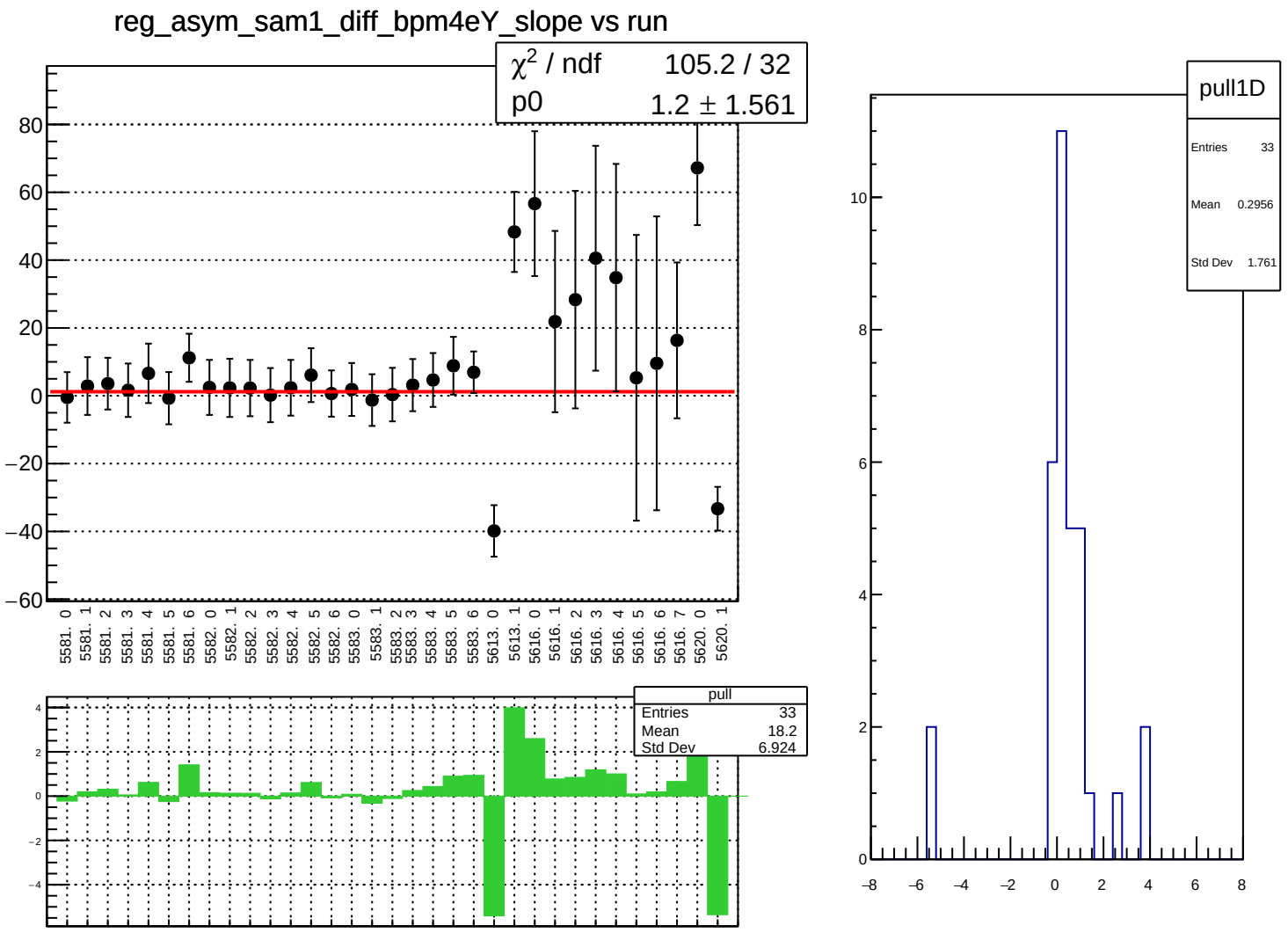

pull1D
Entries 33
Mean 2.811
Std Dev 1.737
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

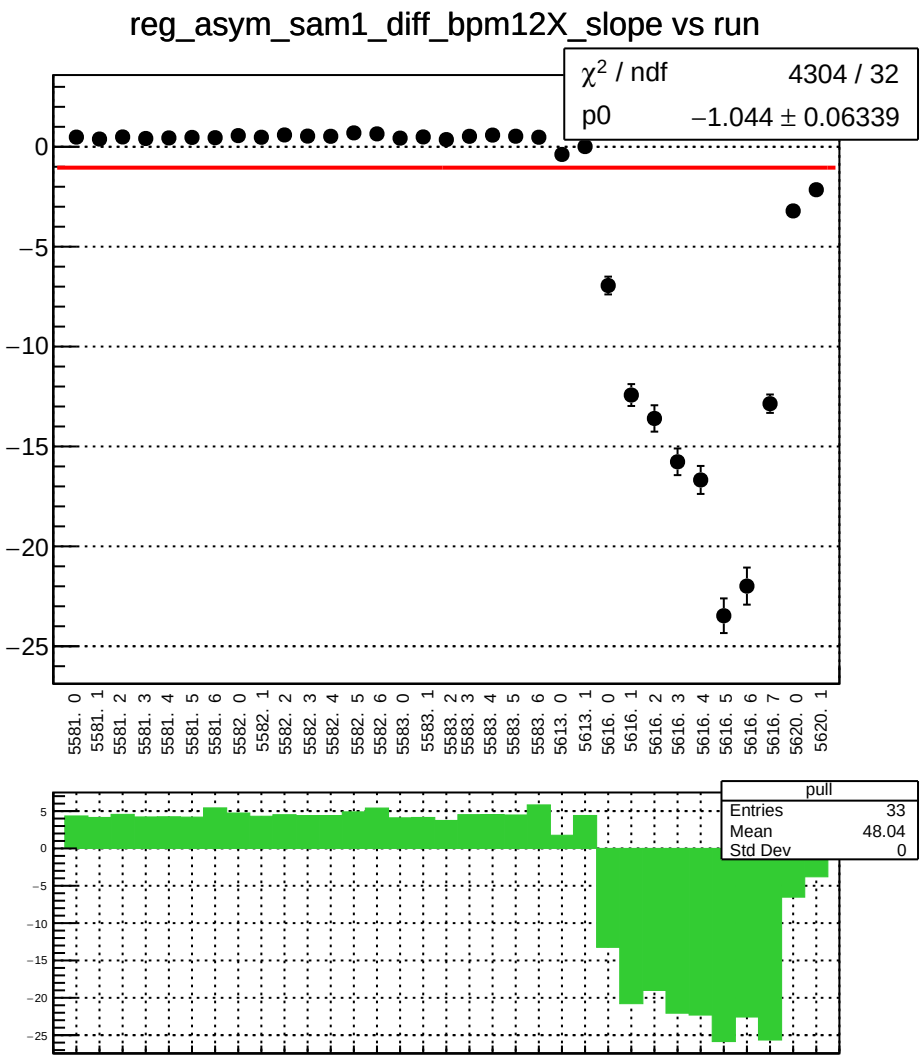

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 102.9 / 32
p0 −81.33 ± 1.191
−20
−40
−60
−80
−100
−120
−140
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 3.378
Std Dev 0
6
4
2
0
−2
−4

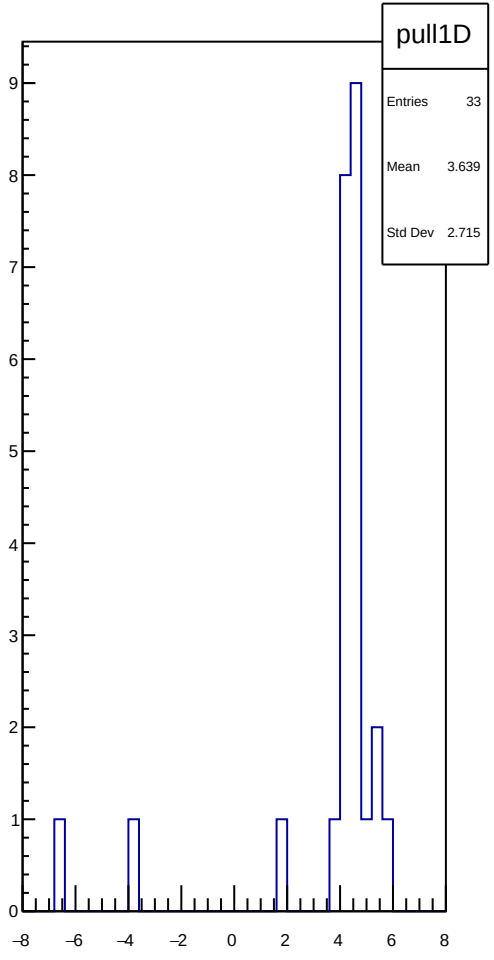

pull1D
Entries 33
Mean −0.1772
Std Dev 1.757
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

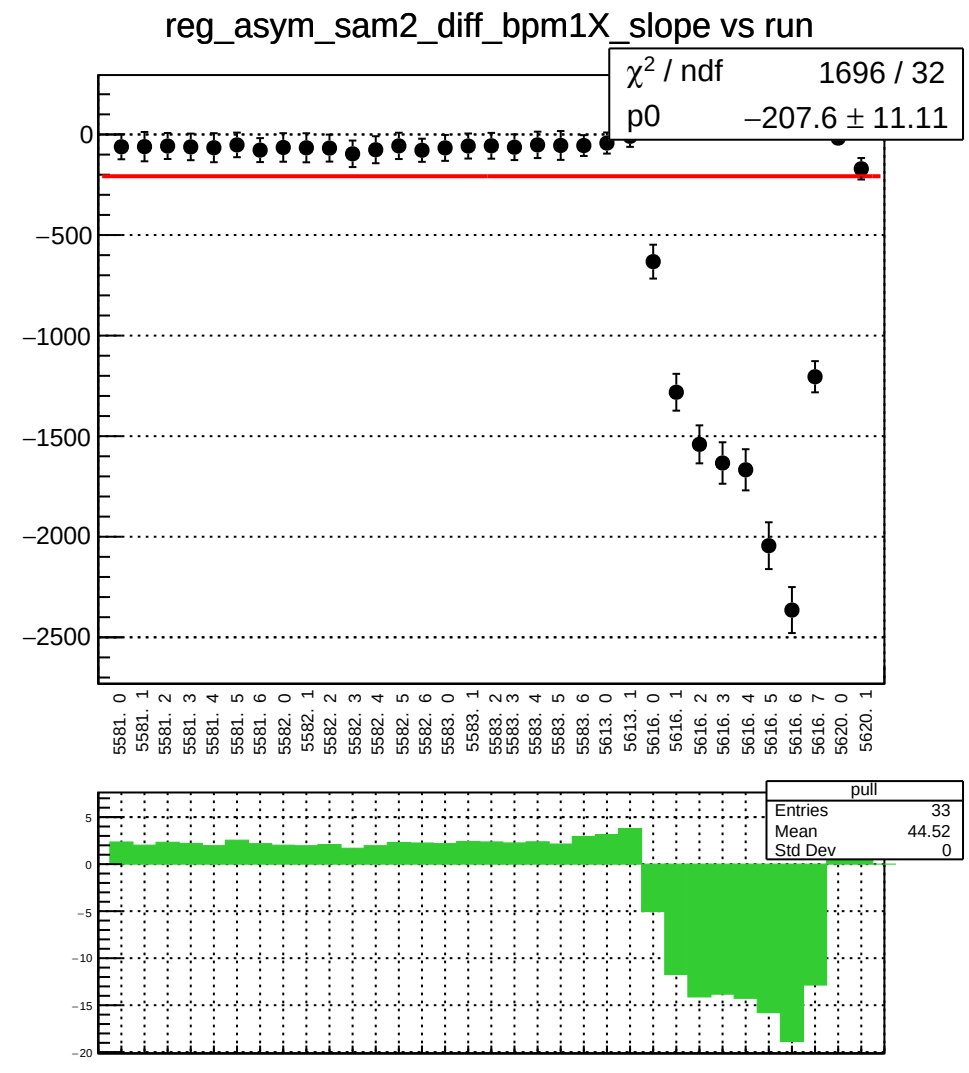

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 4893 / 32
p0 5.93 ± 1.197
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 33.8
Std Dev 0
25
20
15
10
5
0
−5

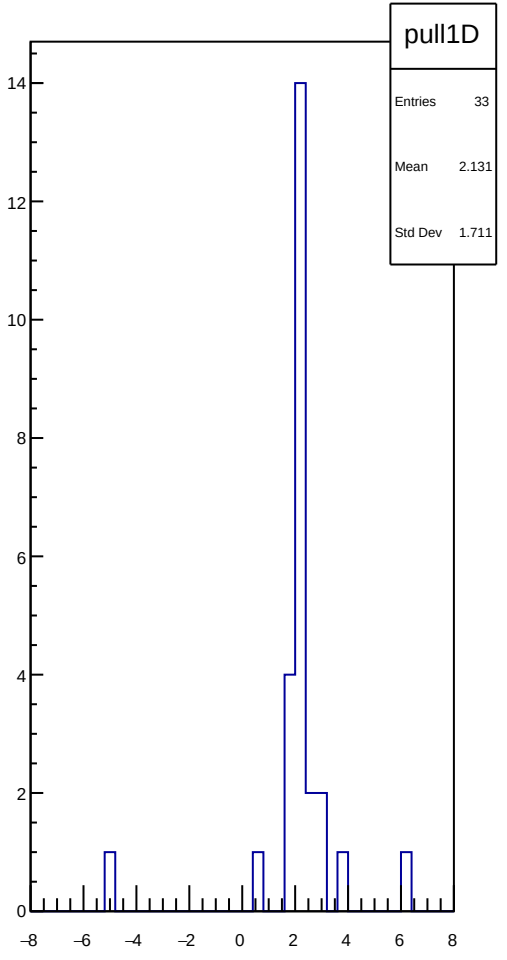

pull1D
Entries 33
Mean −2.077
Std Dev 1.745
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

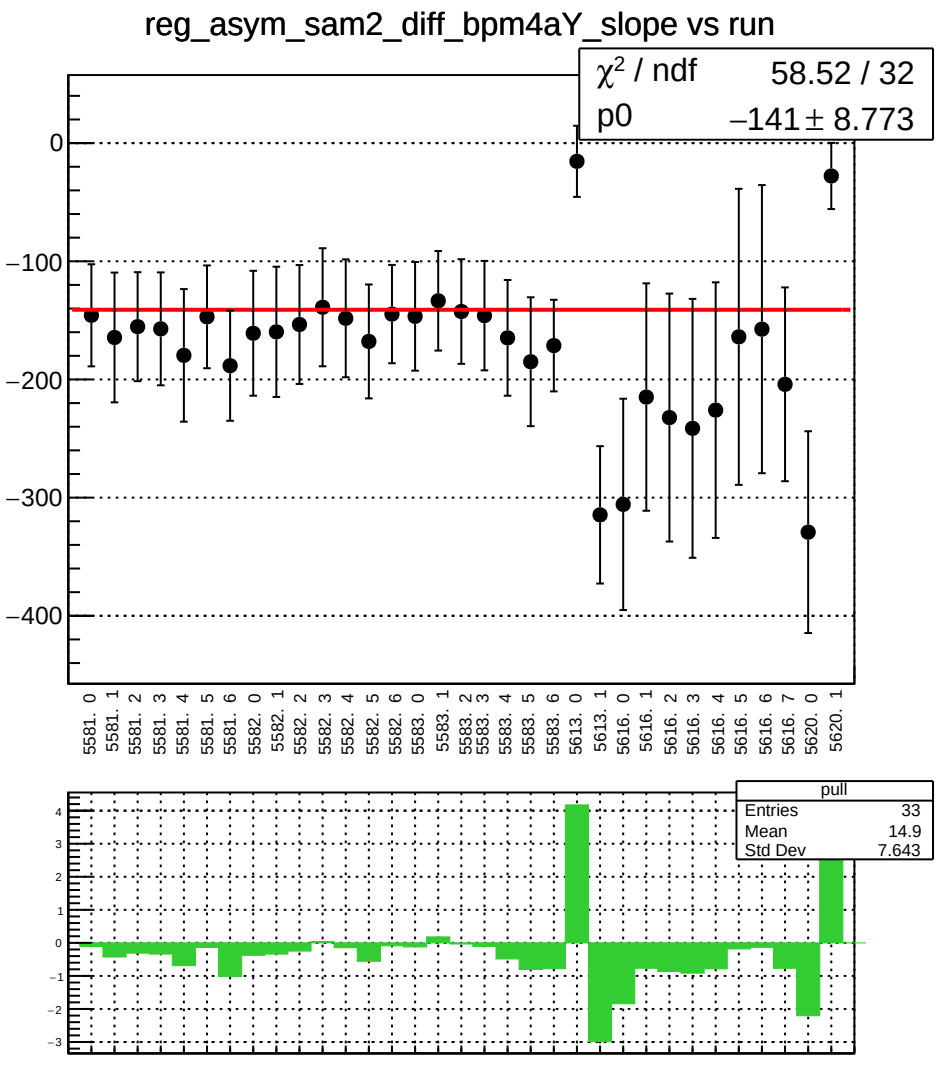

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 105.2 / 32
p0 1.2 ± 1.561
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.2
Std Dev 6.924
4
2
0
−2
−4
pull1D
Entries 33
Mean 0.2956
Std Dev 1.761
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

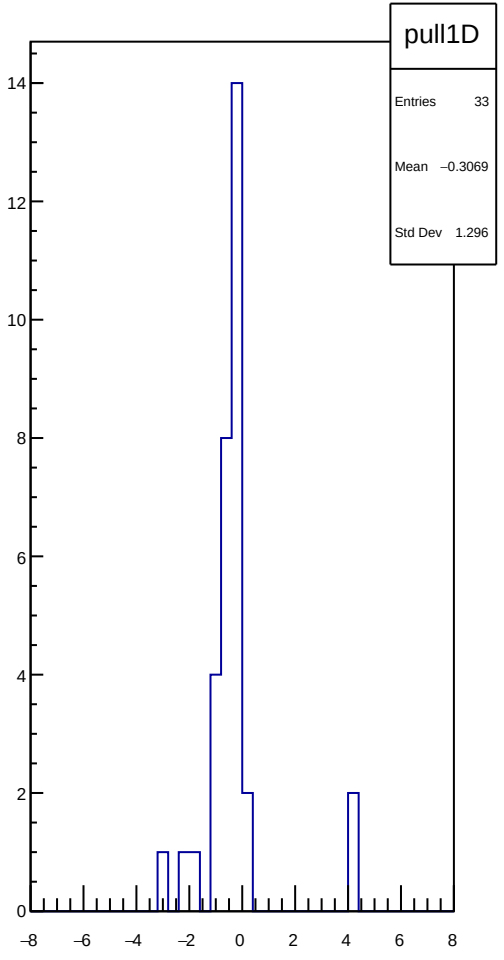

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 4304 / 32
p0 −1.044 ± 0.06339
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 48.04
Std Dev 0
5
0
−5
−10
−15
−20
−25

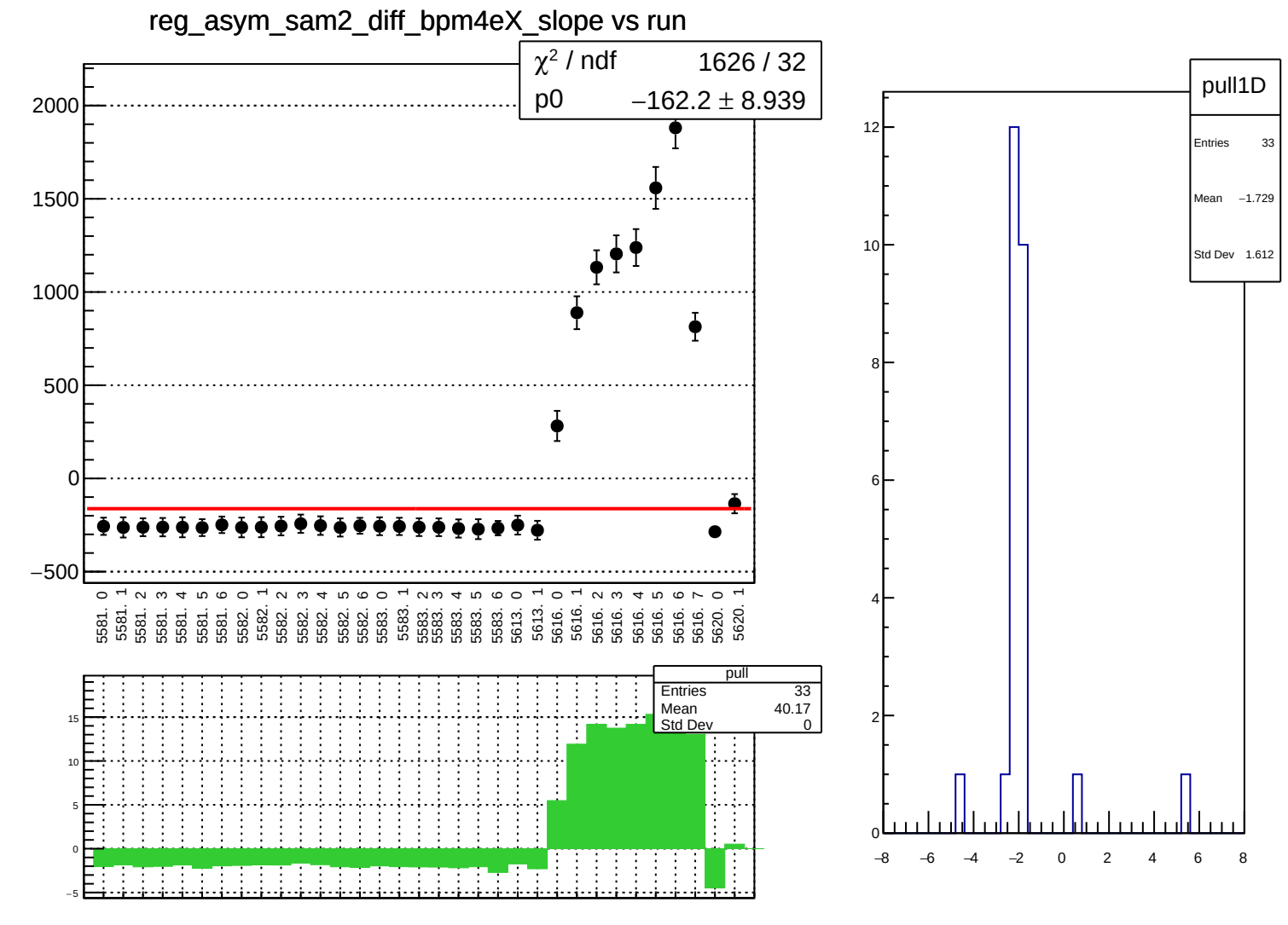

pull1D
Entries 33
Mean 3.639
Std Dev 2.715
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

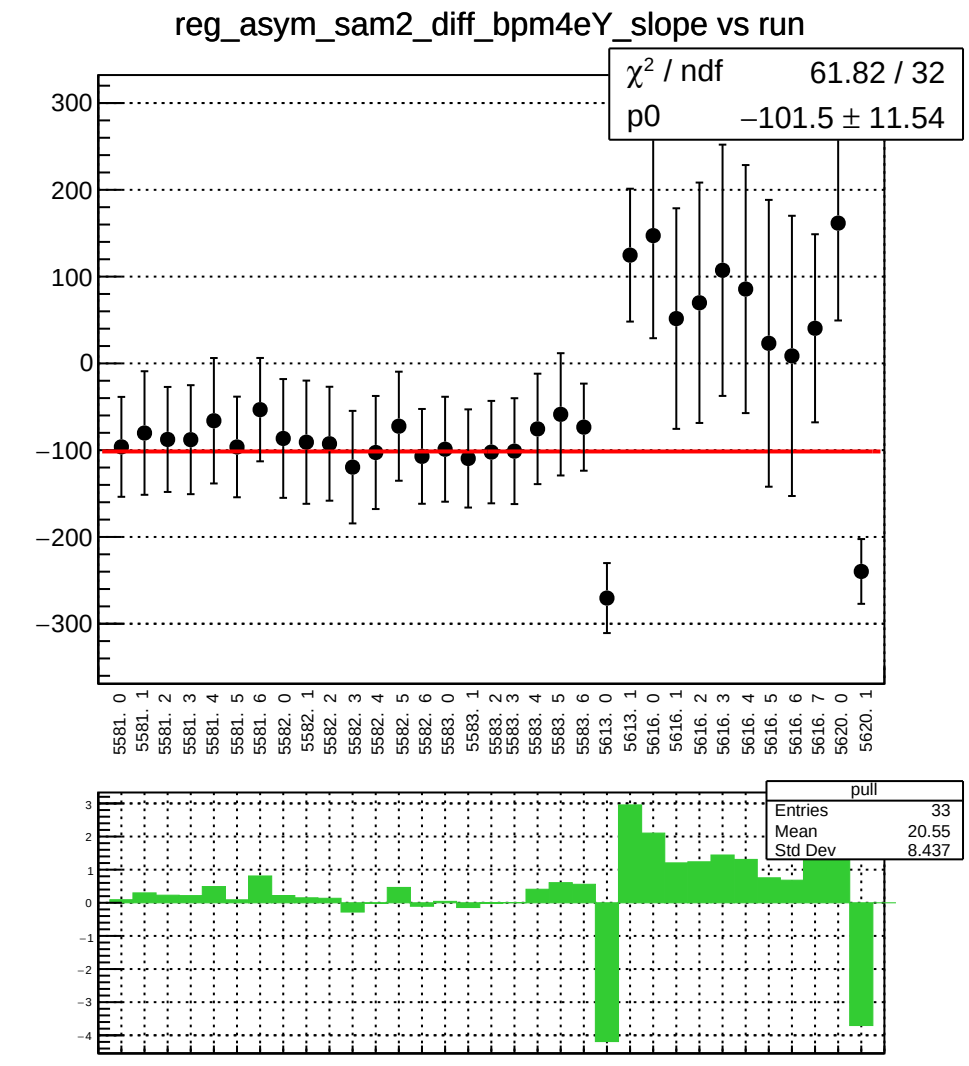

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 1696 / 32
p0 −207.6 ± 11.11
0
−500
−1000
−1500
−2000
−2500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 44.52
Std Dev 0
5
0
−5
−10
−15
−20

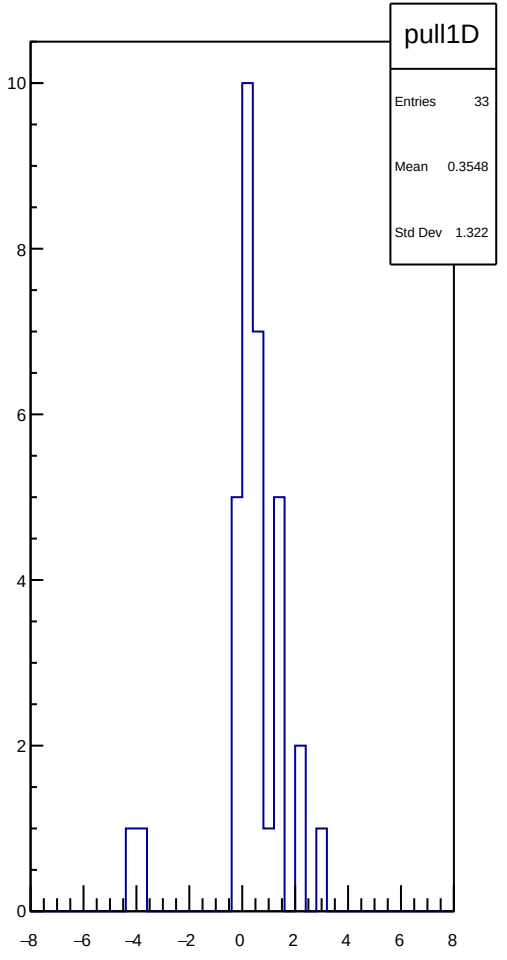

pull1D
Entries 33
Mean 2.131
Std Dev 1.711
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

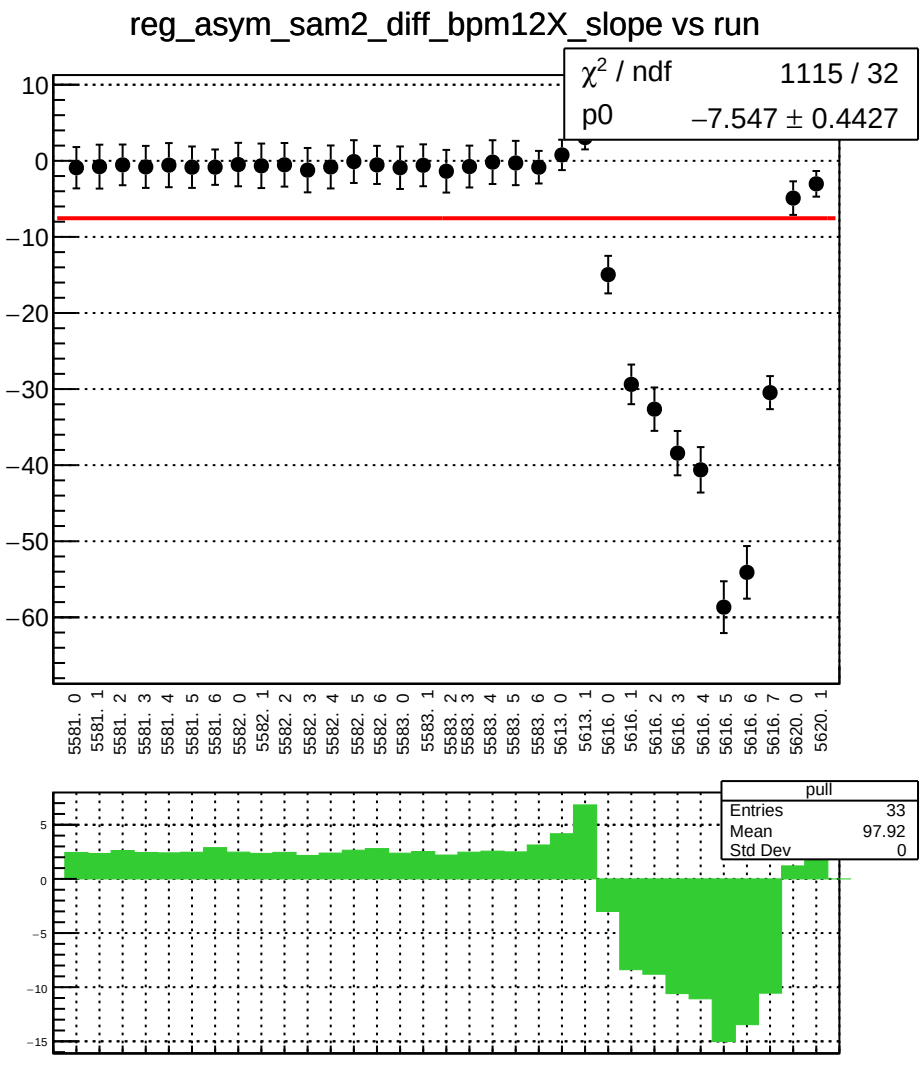

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 58.52 / 32
p0 −141 ± 8.773
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 14.9
Std Dev 7.643
4
3
2
1
0
−1
−2
−3

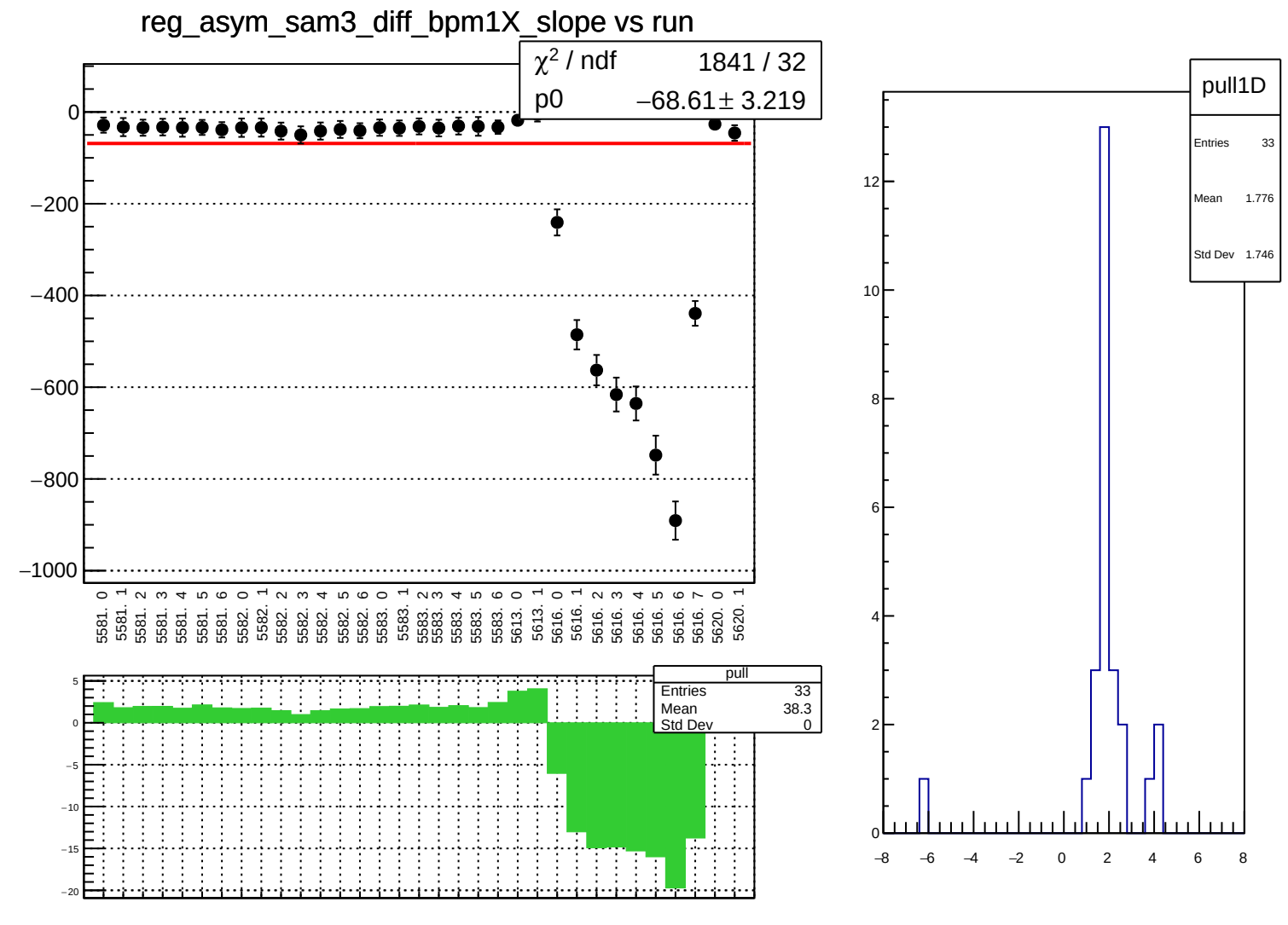

pull1D
Entries 33
Mean −0.3069
Std Dev 1.296
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

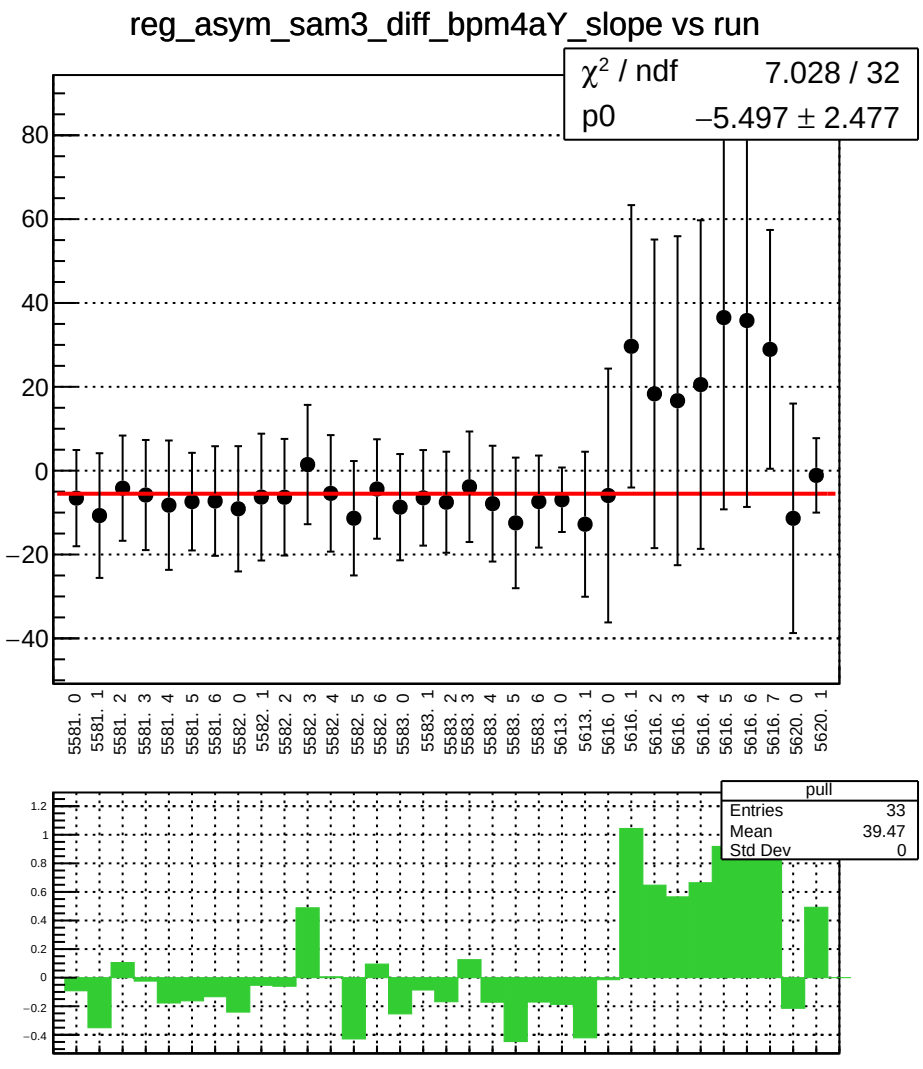

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 1626 / 32
p0 −162.2 ± 8.939
2000
1500
1000
500
0
−500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.17
Std Dev 0
15
10
5
0
−5
pull1D
Entries 33
Mean −1.729
Std Dev 1.612
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

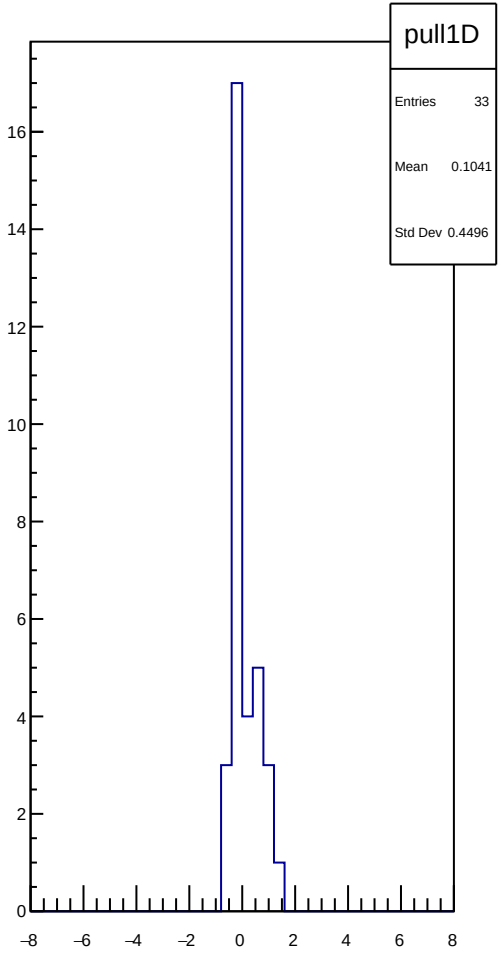

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 61.82 / 32
p0 −101.5 ± 11.54
300
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.55
Std Dev 8.437
3
2
1
0
−1
−2
−3
−4

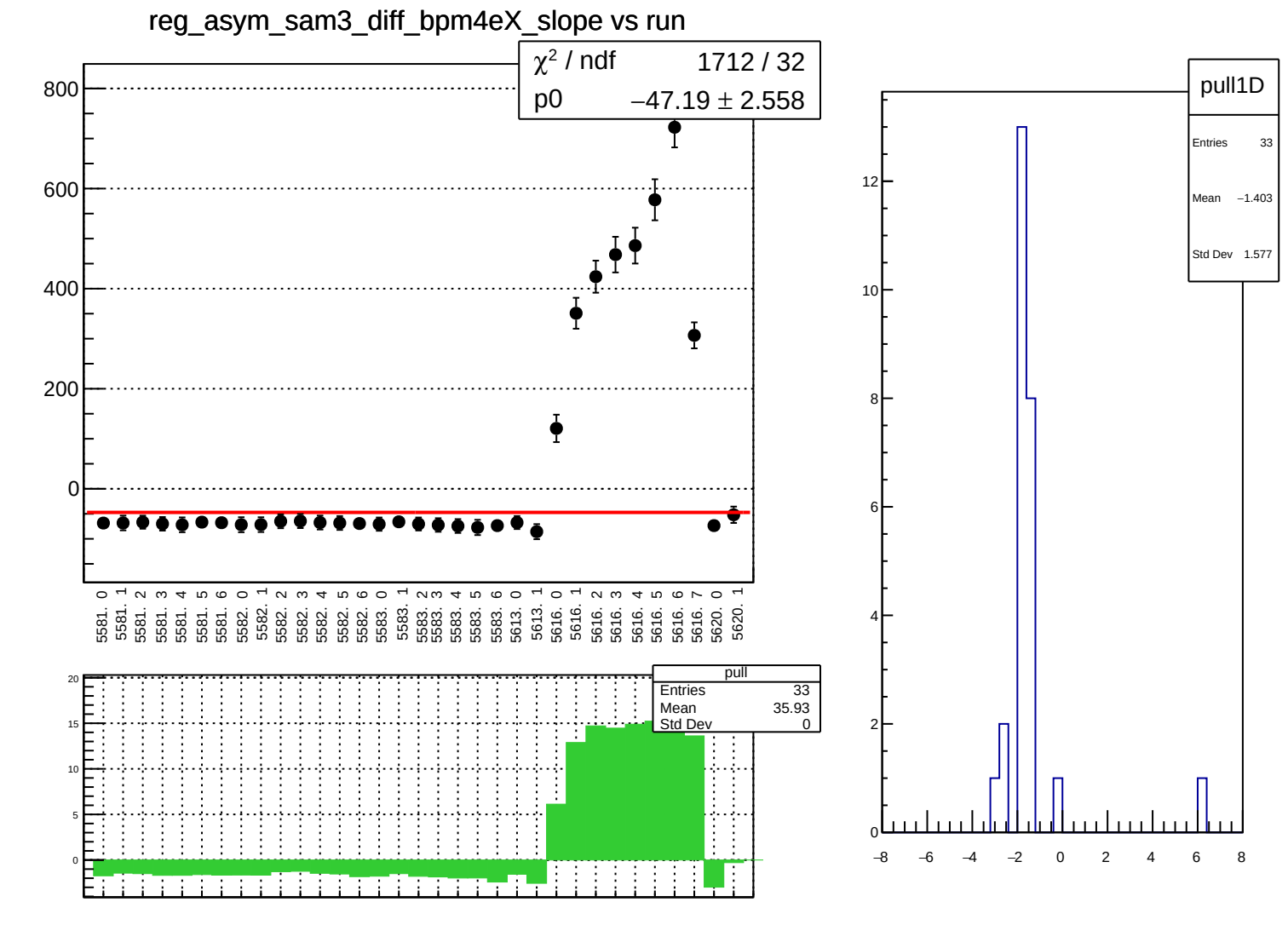

pull1D
Entries 33
Mean 0.3548
Std Dev 1.322
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

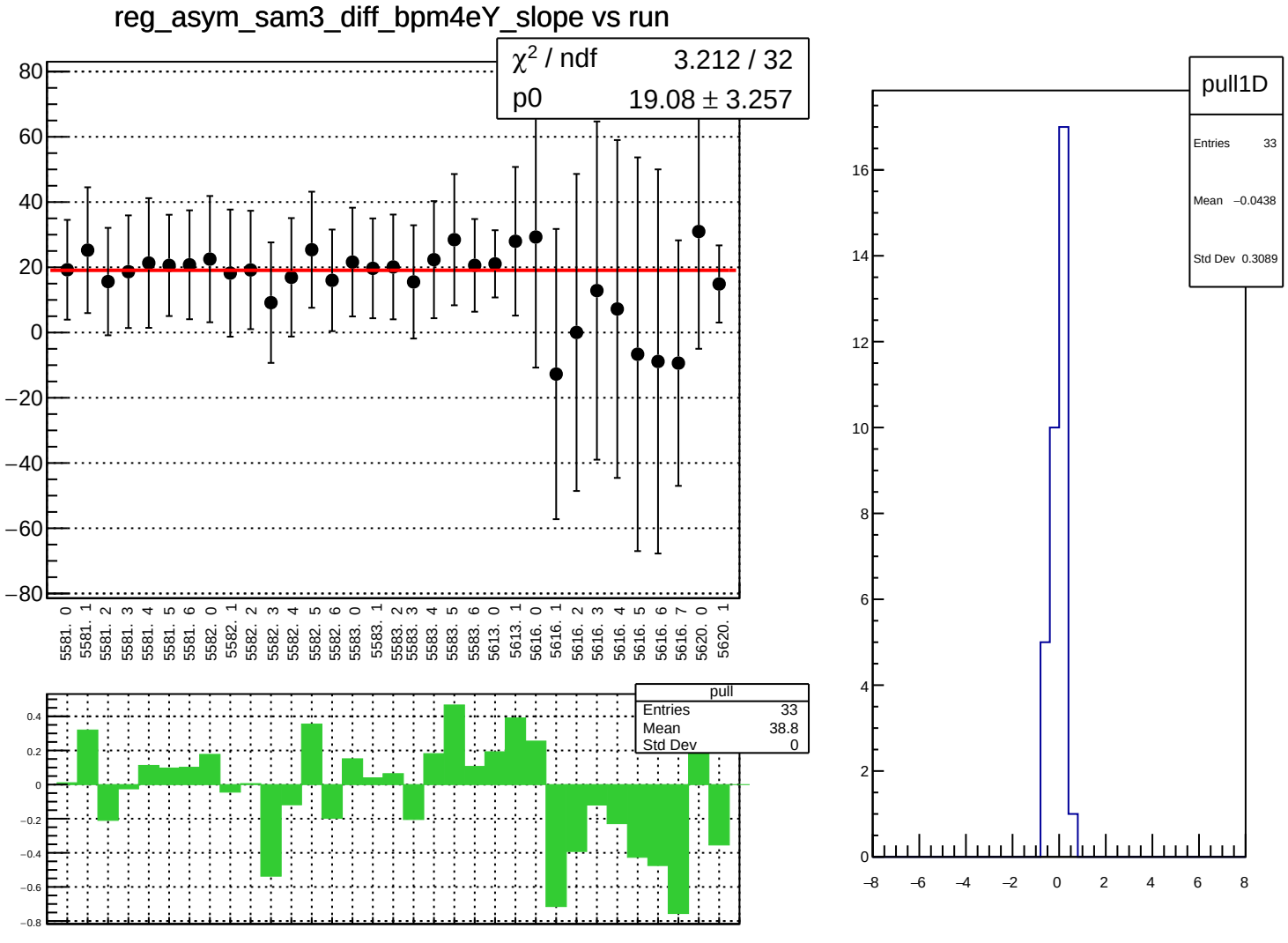

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1115 / 32
p0 −7.547 ± 0.4427
pull
Entries 33
Mean 97.92
Std Dev 0
pull1D
Entries 33
Mean 2.483
Std Dev 1.448

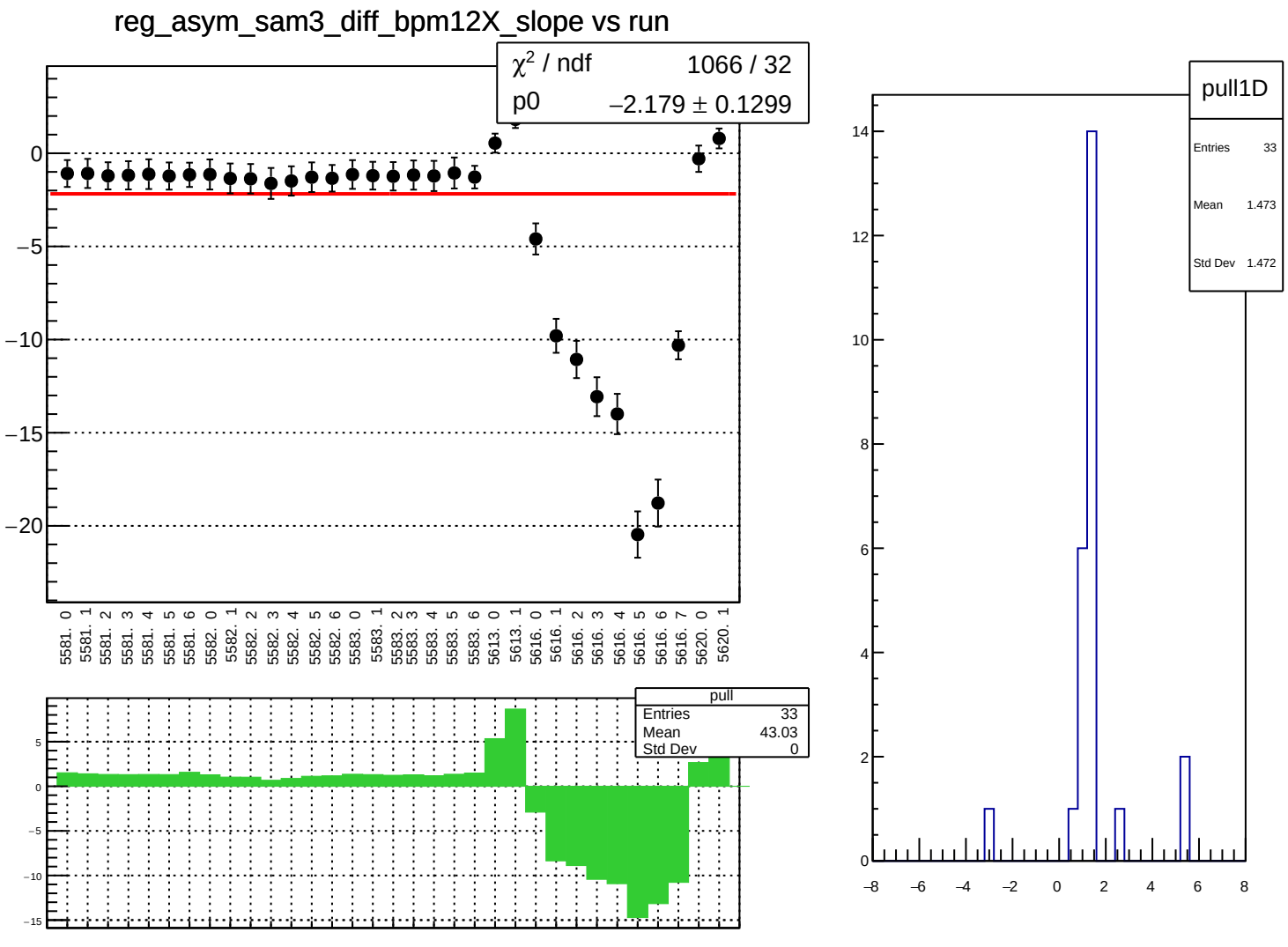

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 1841 / 32
p0 −68.61± 3.219
0
−200
−400
−600
−800
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.3
Std Dev 0
5
0
−5
−10
−15
−20
pull1D
Entries 33
Mean 1.776
Std Dev 1.746
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

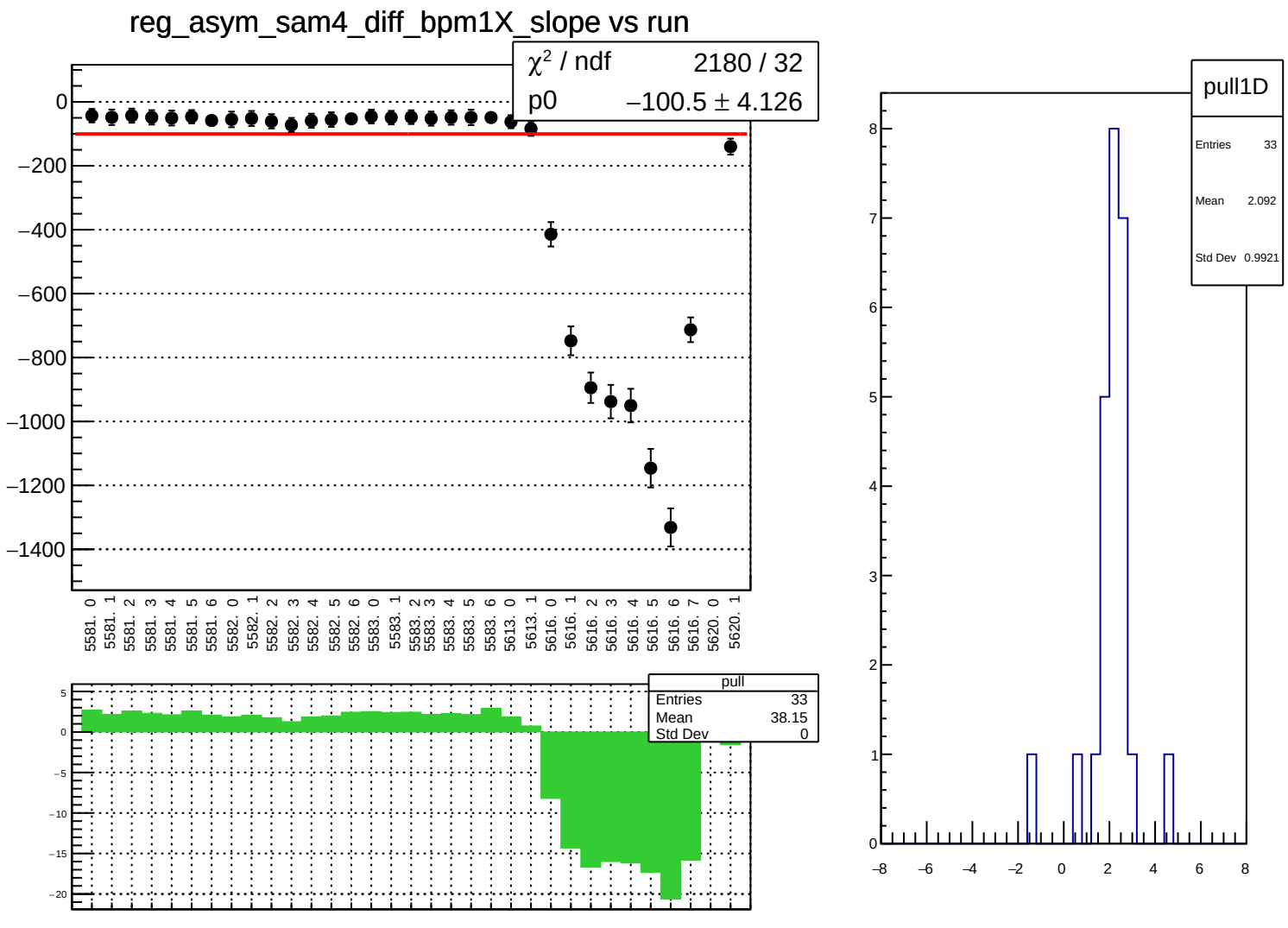

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 7.028 / 32
p0 −5.497 ± 2.477
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.47
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

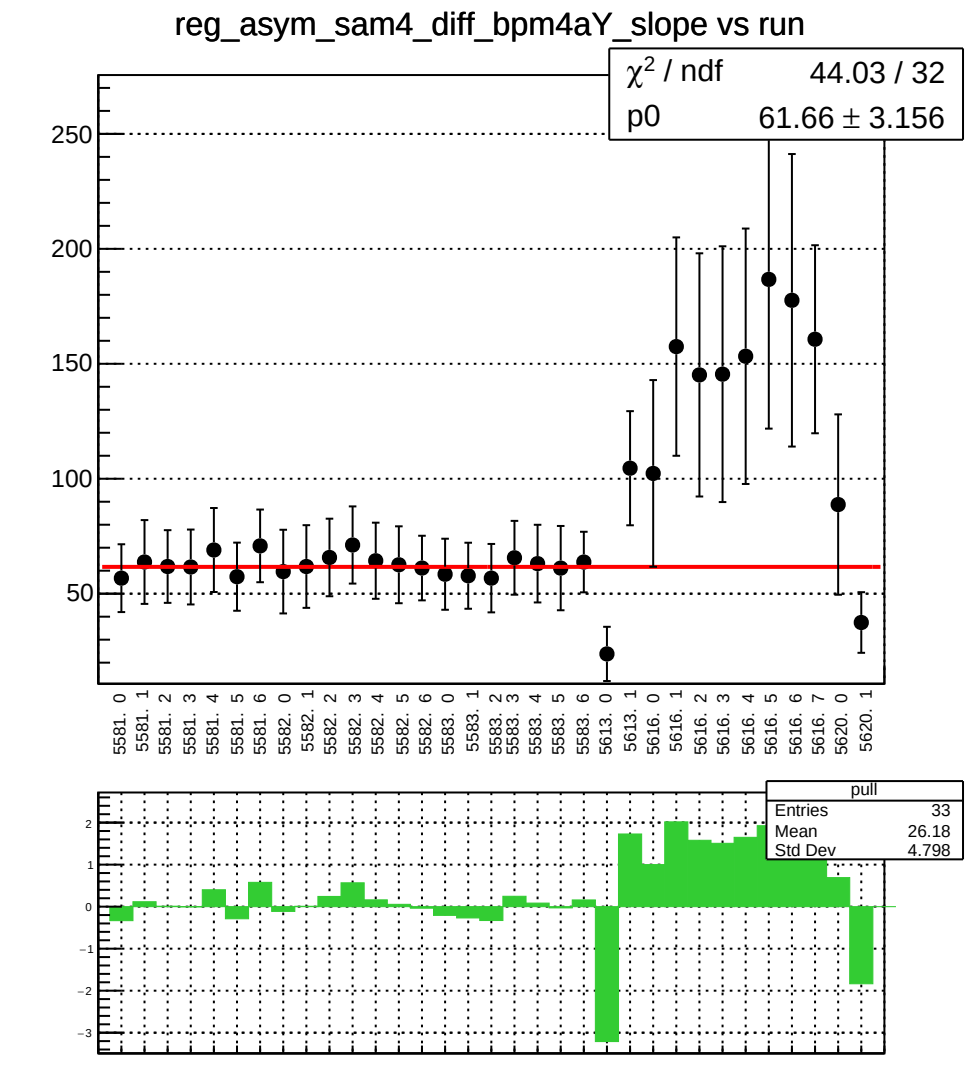

pull1D
Entries 33
Mean 0.1041
Std Dev 0.4496
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

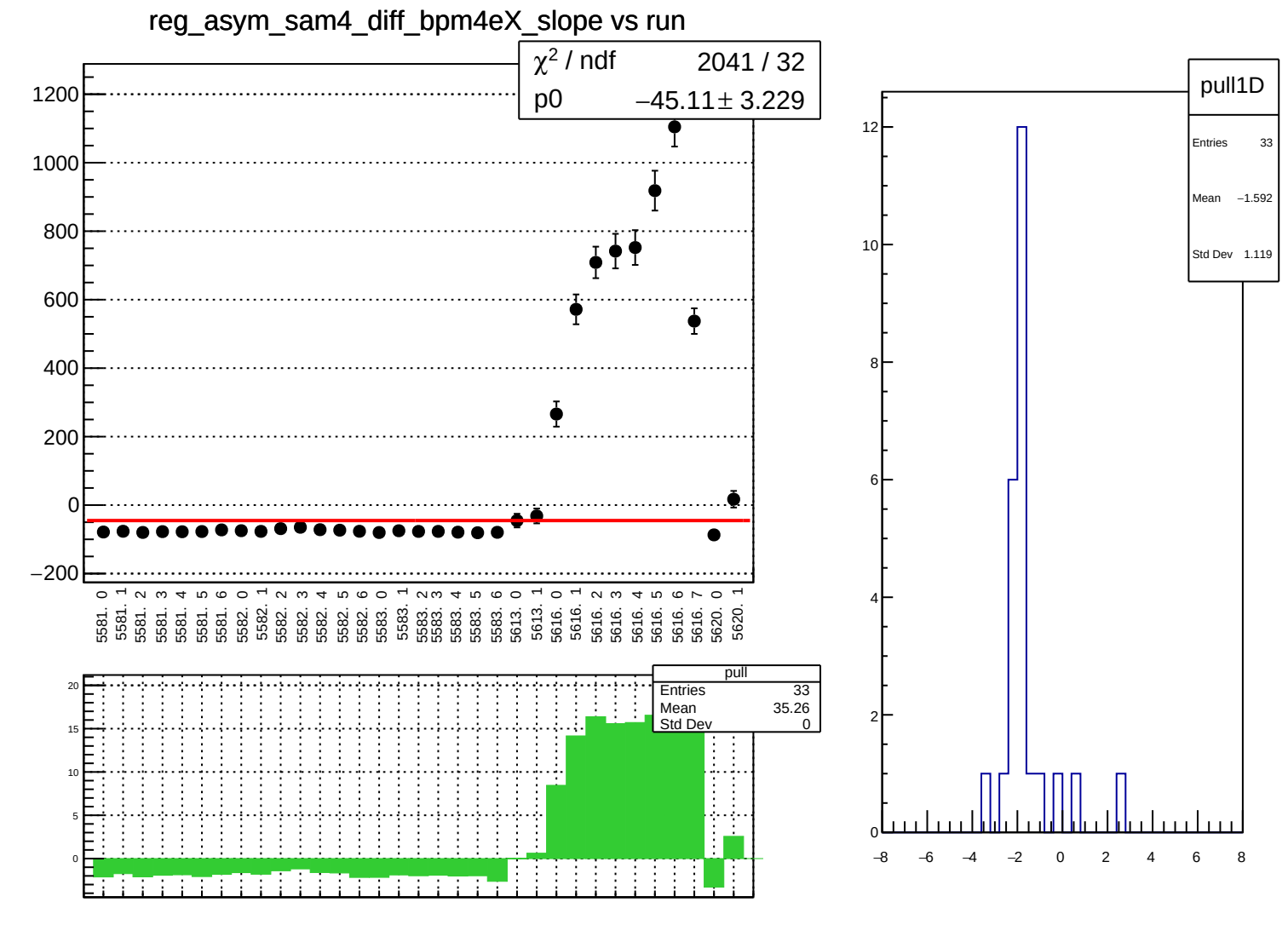

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 1712 / 32
p0 −47.19 ± 2.558
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.93
Std Dev 0
20
15
10
5
0
pull1D
Entries 33
Mean −1.403
Std Dev 1.577
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

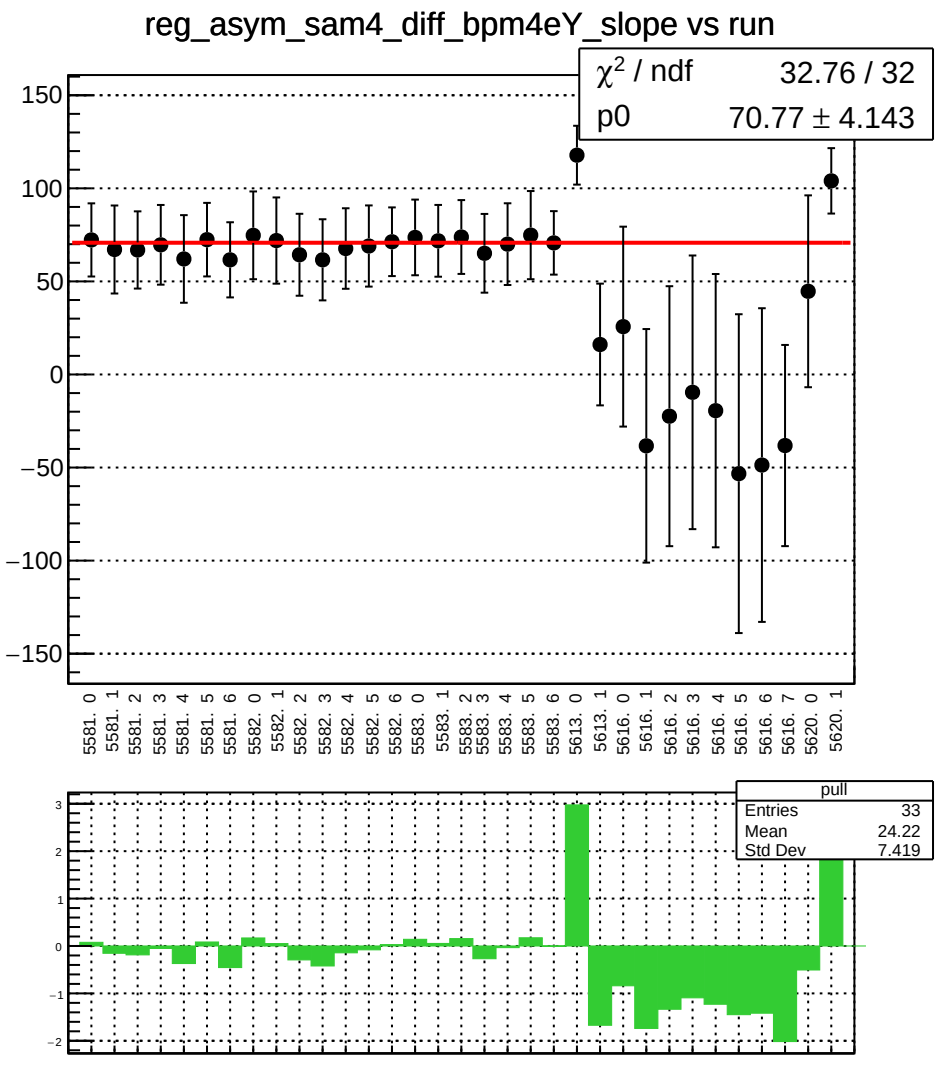

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 3.212 / 32
p0 19.08 ± 3.257
pull
Entries 33
Mean 38.8
Std Dev 0
pull1D
Entries 33
Mean −0.0438
Std Dev 0.3089

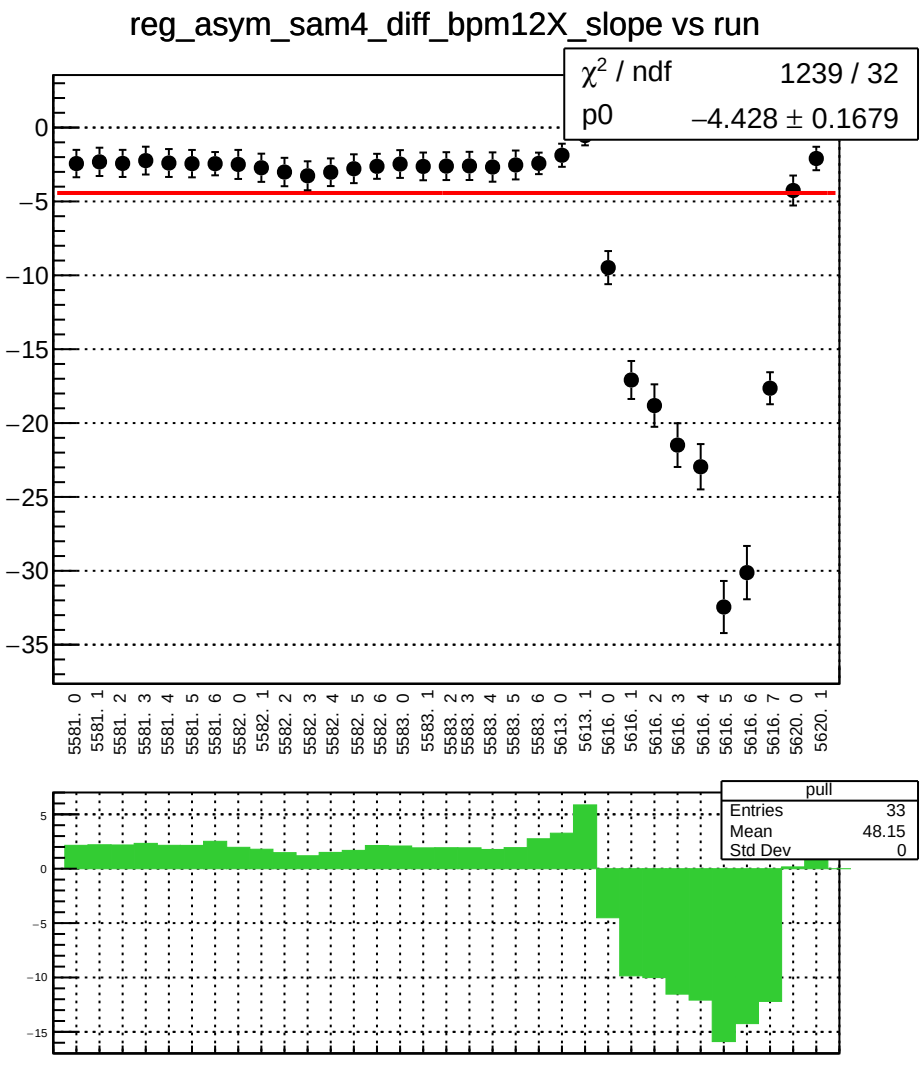

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 1066 / 32
p0 −2.179 ± 0.1299
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 43.03
Std Dev 0
5
0
−5
−10
−15
pull1D
Entries 33
Mean 1.473
Std Dev 1.472
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

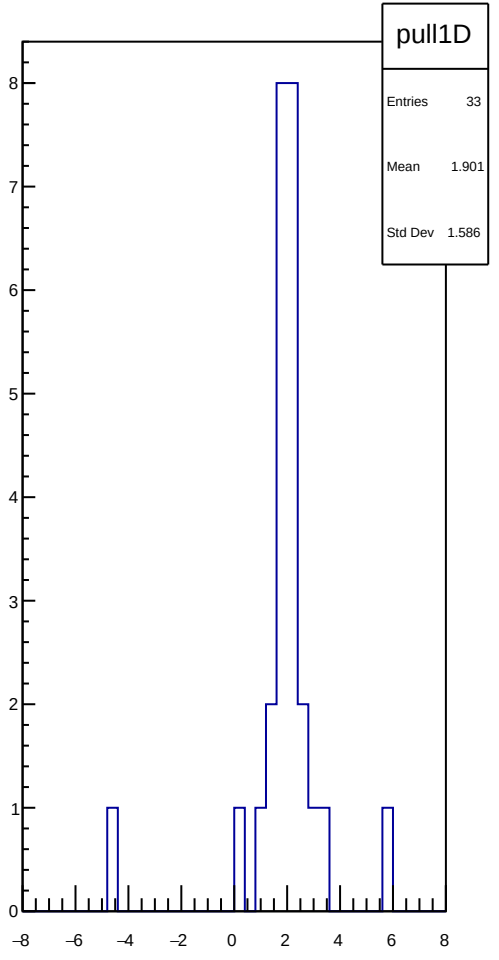

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 2180 / 32
p0 −100.5 ± 4.126
0
−200
−400
−600
−800
−1000
−1200
−1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.15
Std Dev 0
5
0
−5
−10
−15
−20
pull1D
Entries 33
Mean 2.092
Std Dev 0.9921
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

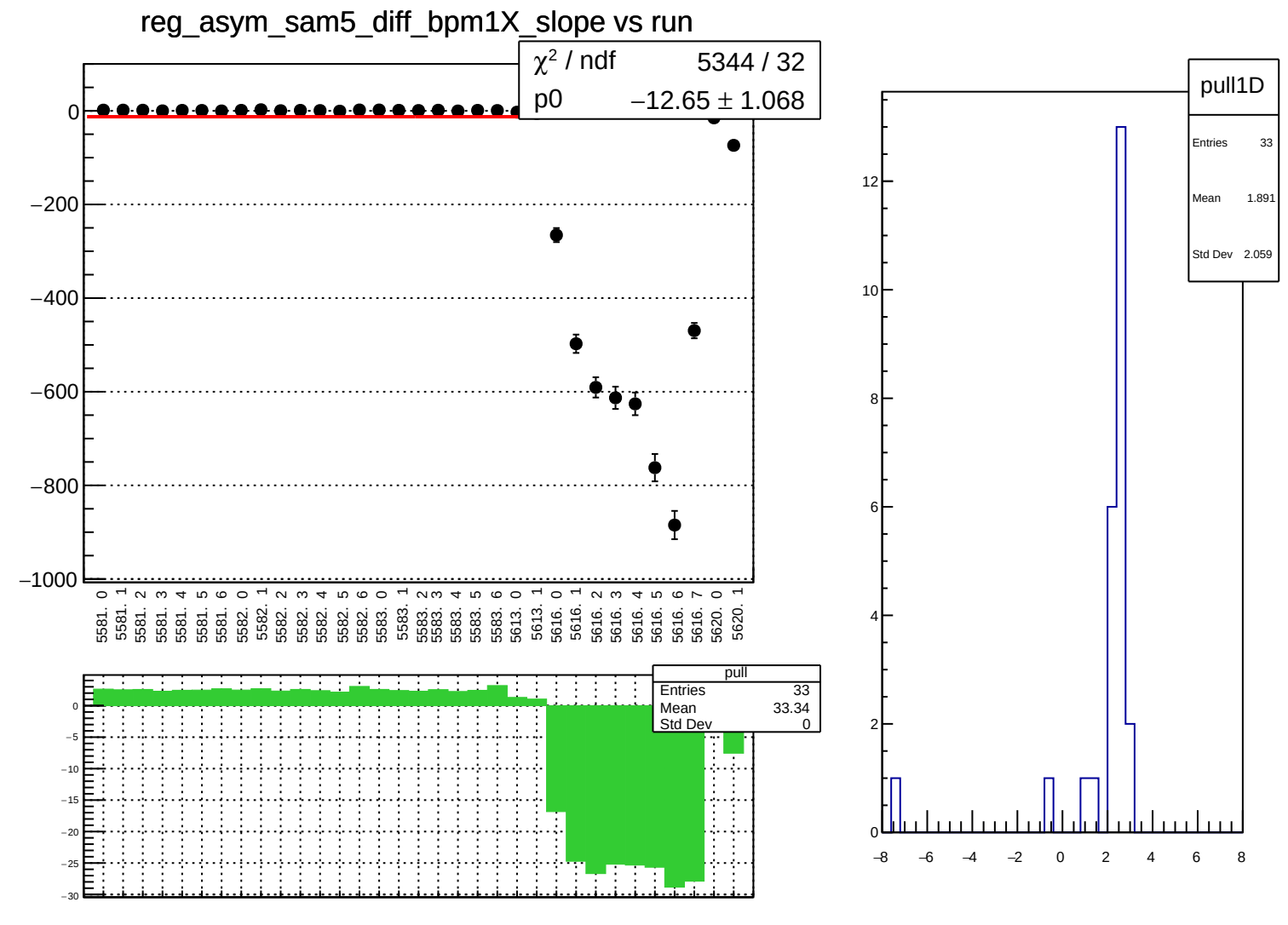

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 44.03 / 32
p0 61.66 ± 3.156
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.18
Std Dev 4.798
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.3734
Std Dev 1.093
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

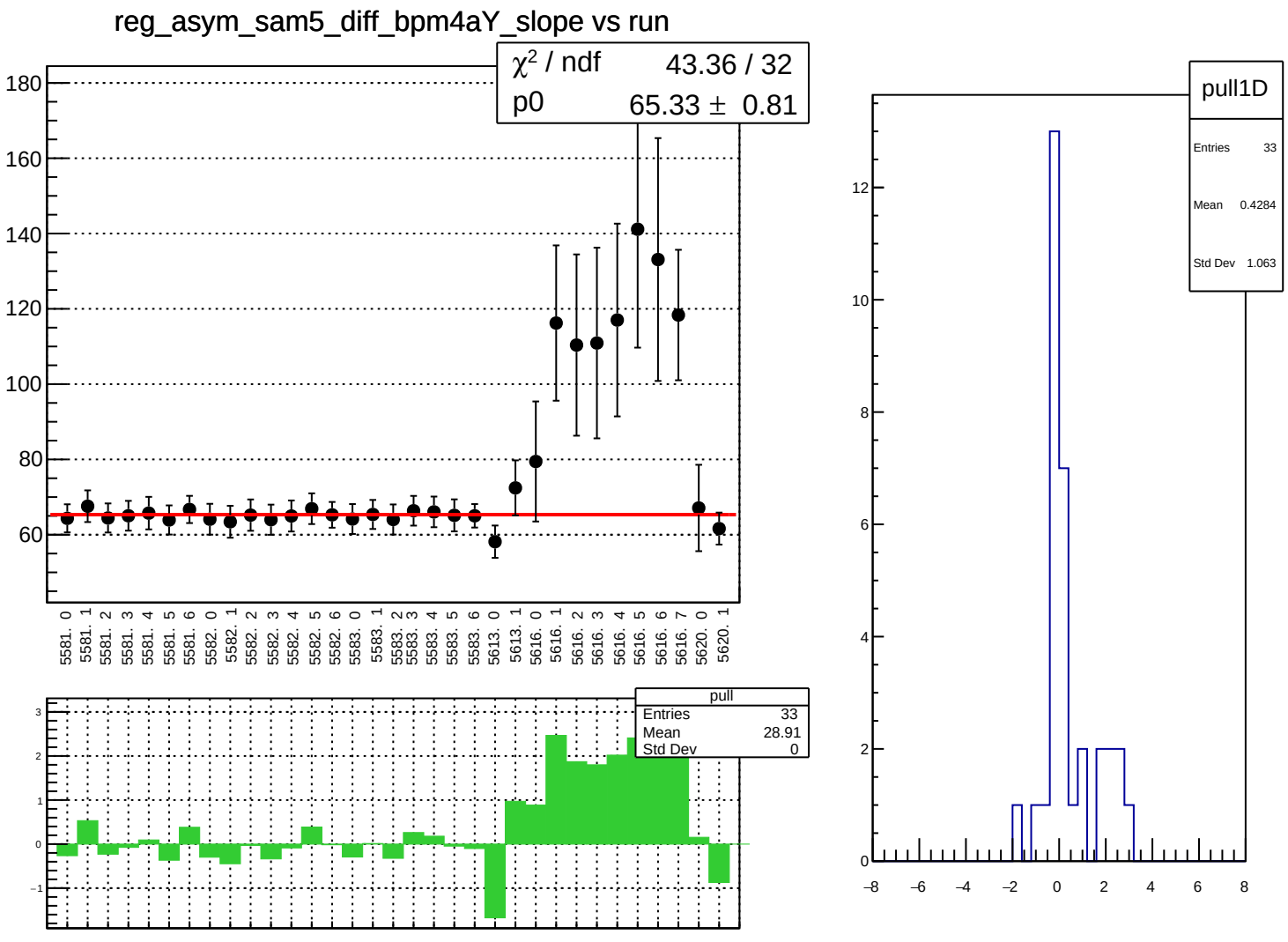

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 2041 / 32
p0 −45.11± 3.229
1200
1000
800
600
400
200
0
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.26
Std Dev 0
20
15
10
5
0
pull1D
Entries 33
Mean −1.592
Std Dev 1.119
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

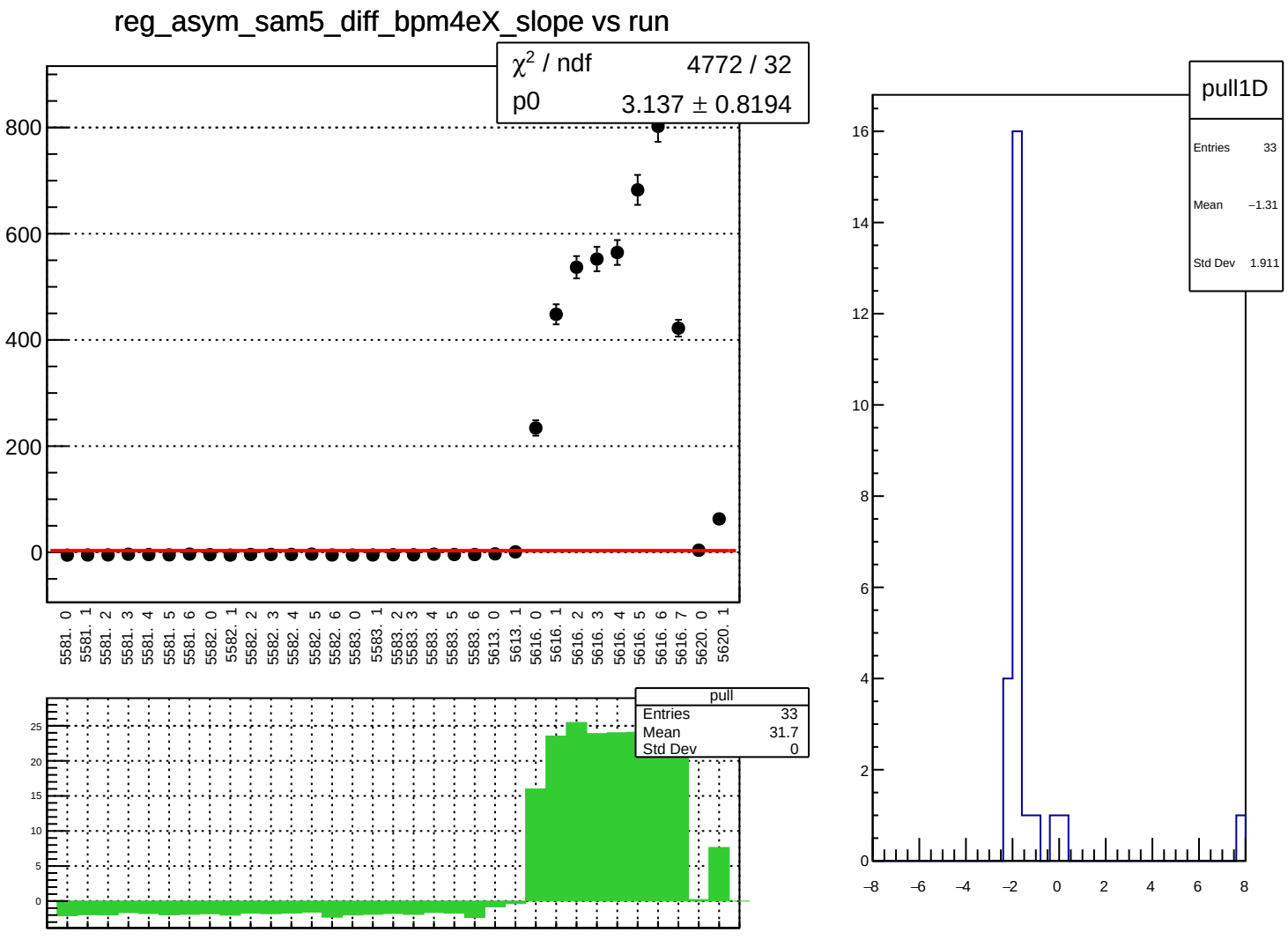

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 32.76 / 32
p0 70.77 ± 4.143
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.22
Std Dev 7.419
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.3018
Std Dev 0.9496
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

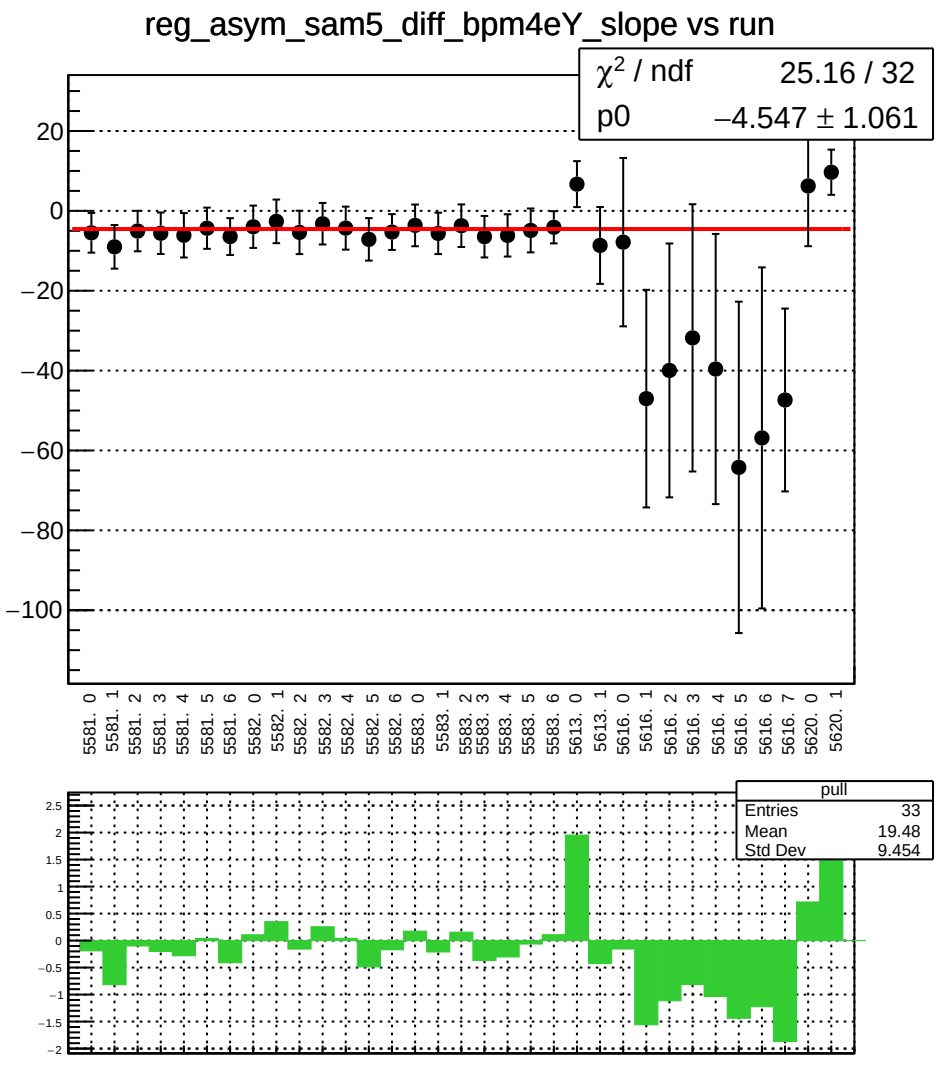

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 1239 / 32
p0 −4.428 ± 0.1679
0
−5
−10
−15
−20
−25
−30
−35
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 48.15
Std Dev 0
5
0
−5
−10
−15

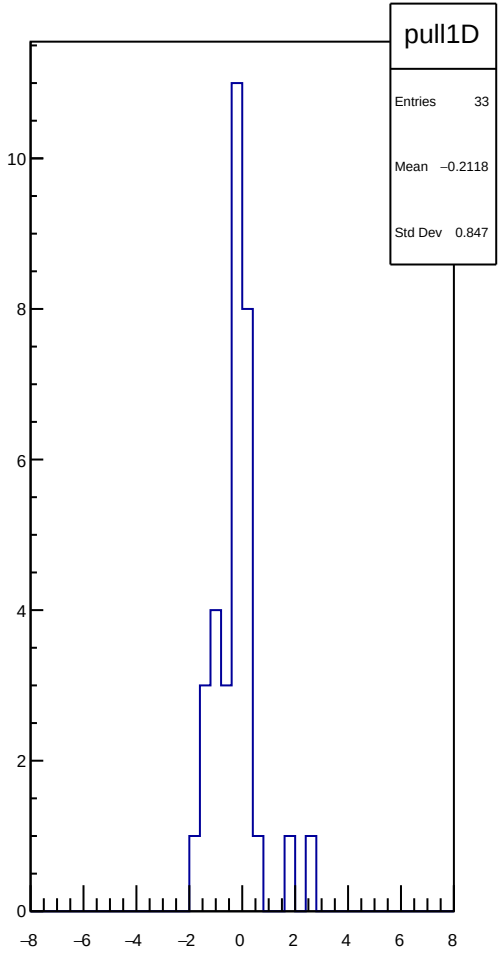

pull1D
Entries 33
Mean 1.901
Std Dev 1.586
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

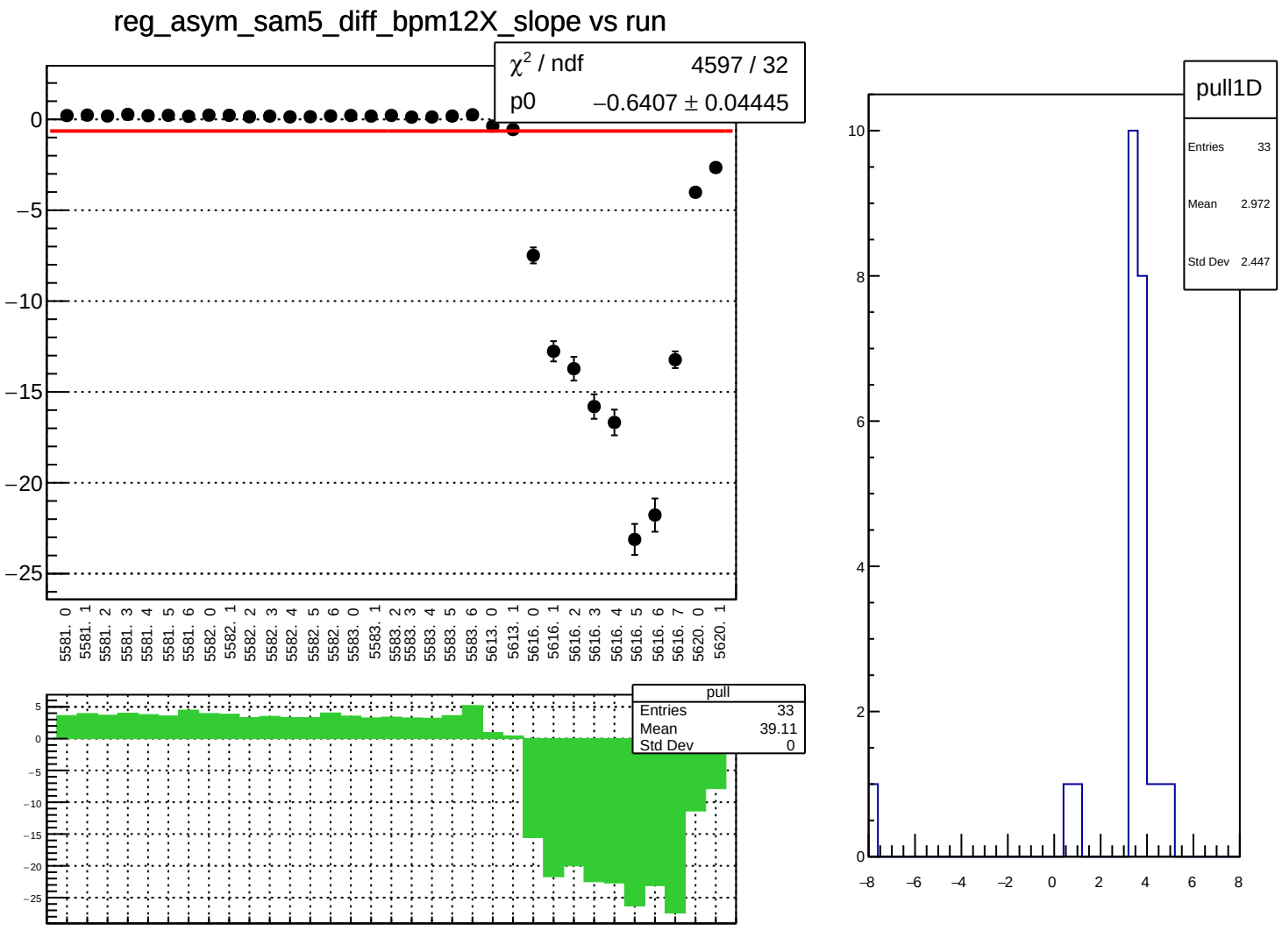

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 5344 / 32
p0 −12.65 ± 1.068
0
−200
−400
−600
−800
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 33.34
Std Dev 0
0
−5
−10
−15
−20
−25
−30
pull1D
Entries 33
Mean 1.891
Std Dev 2.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

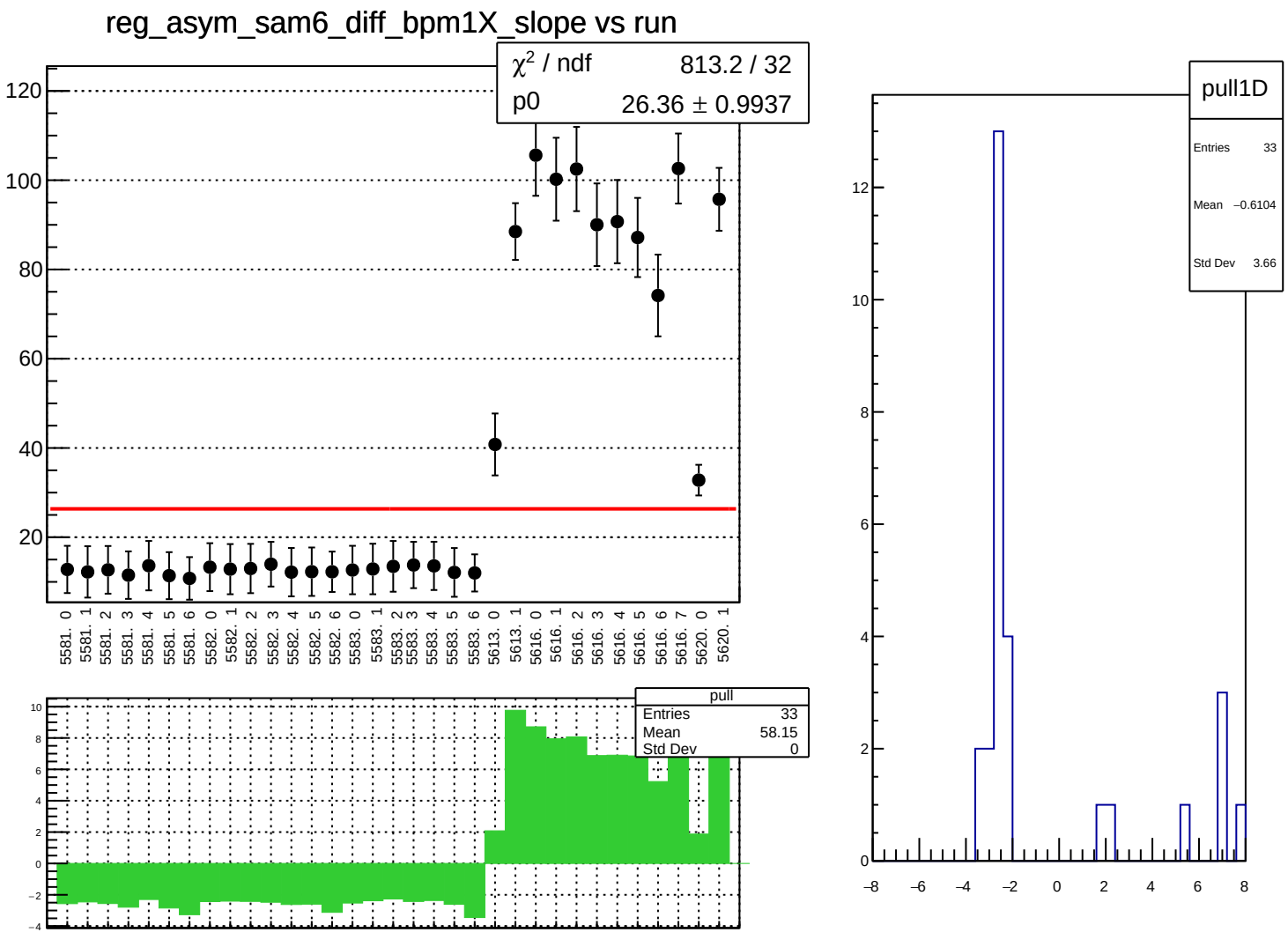

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 43.36 / 32
p0 65.33 ± 0.81
180
160
140
120
100
80
60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.91
Std Dev 0
3
2
1
0
−1
pull1D
Entries 33
Mean 0.4284
Std Dev 1.063
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

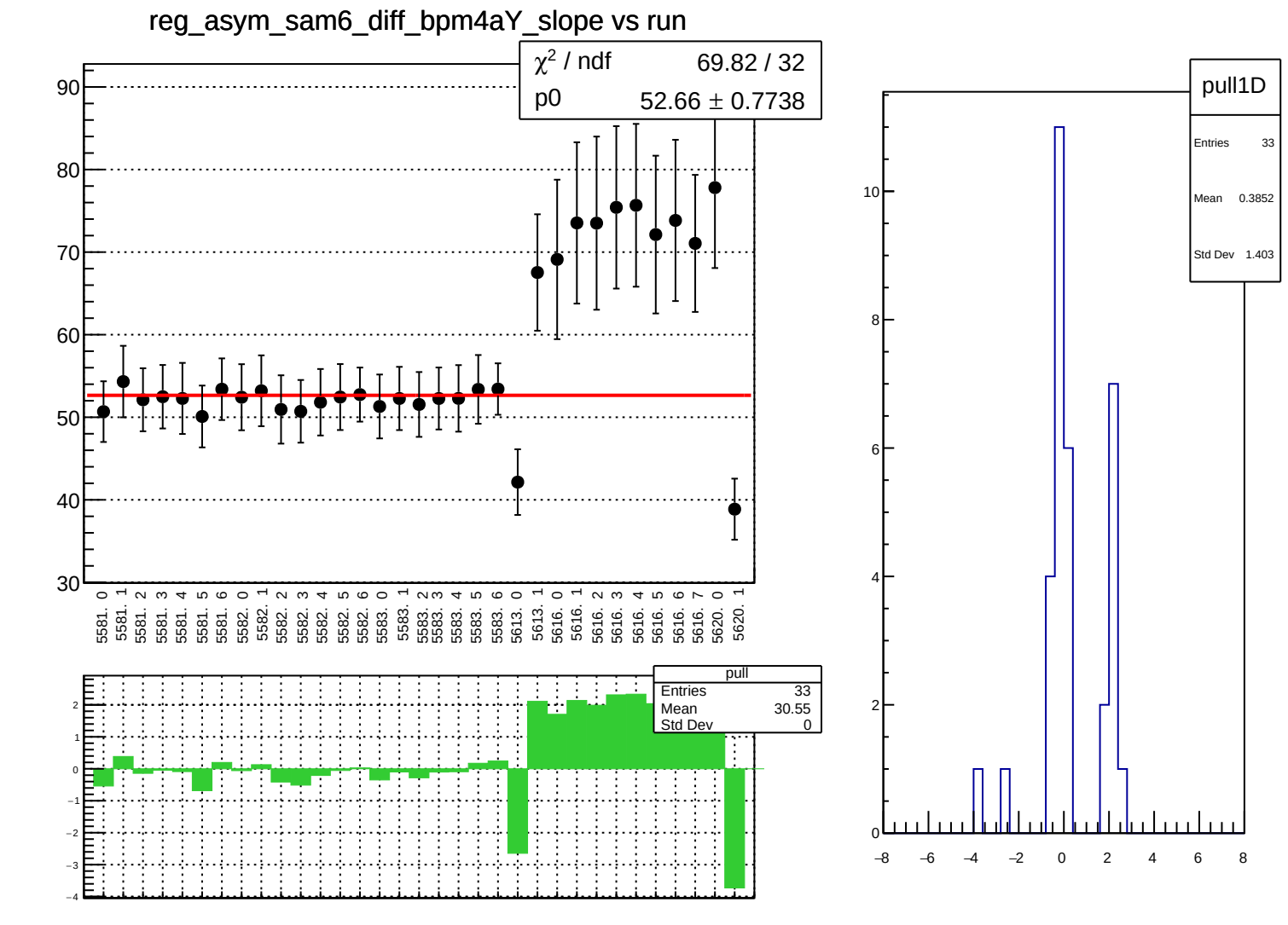

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 4772 / 32
p0 3.137 ± 0.8194
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.7
Std Dev 0
25
20
15
10
5
0
pull1D
Entries 33
Mean −1.31
Std Dev 1.911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

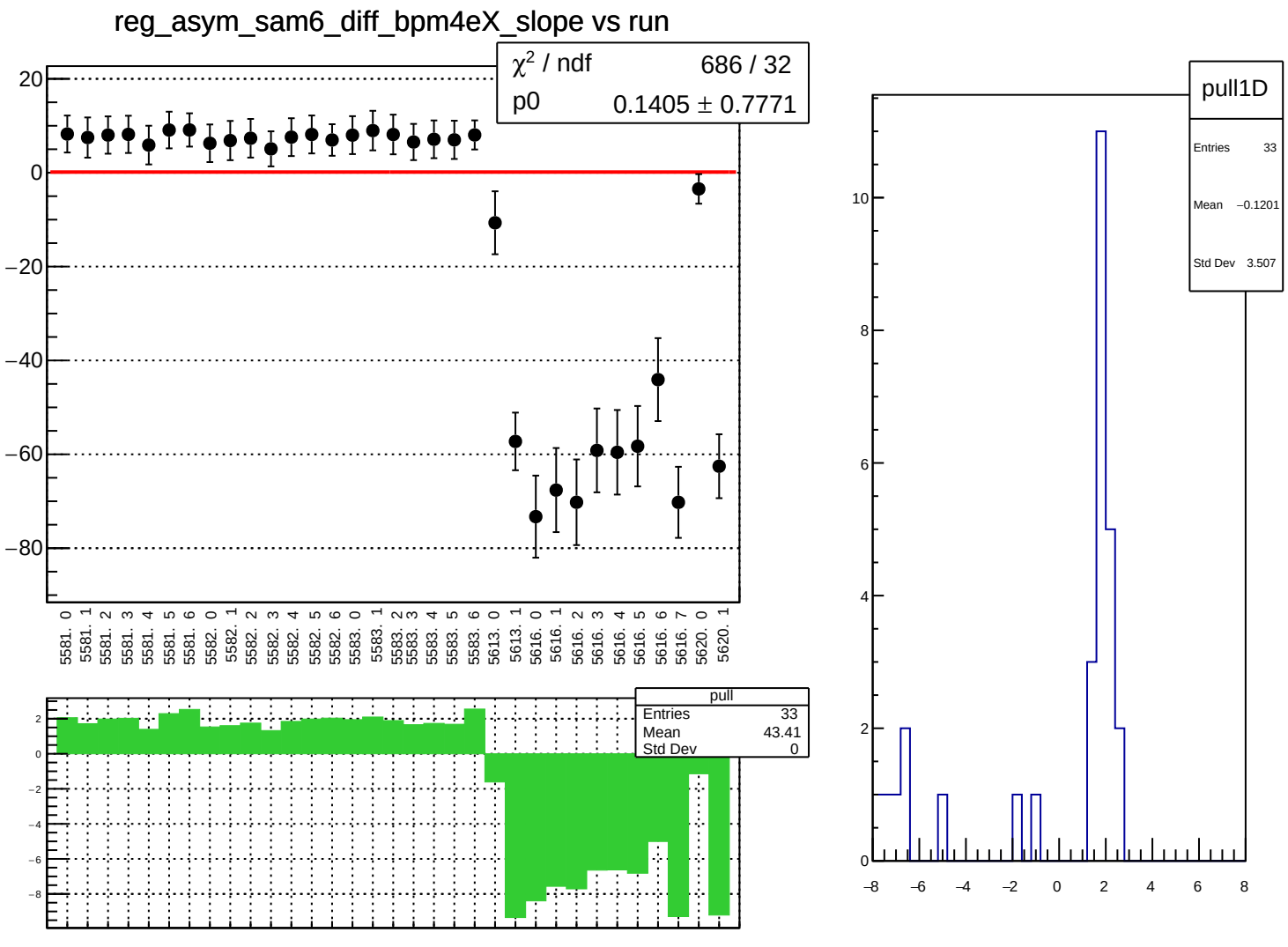

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 25.16 / 32
p0 −4.547 ± 1.061
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.48
Std Dev 9.454
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

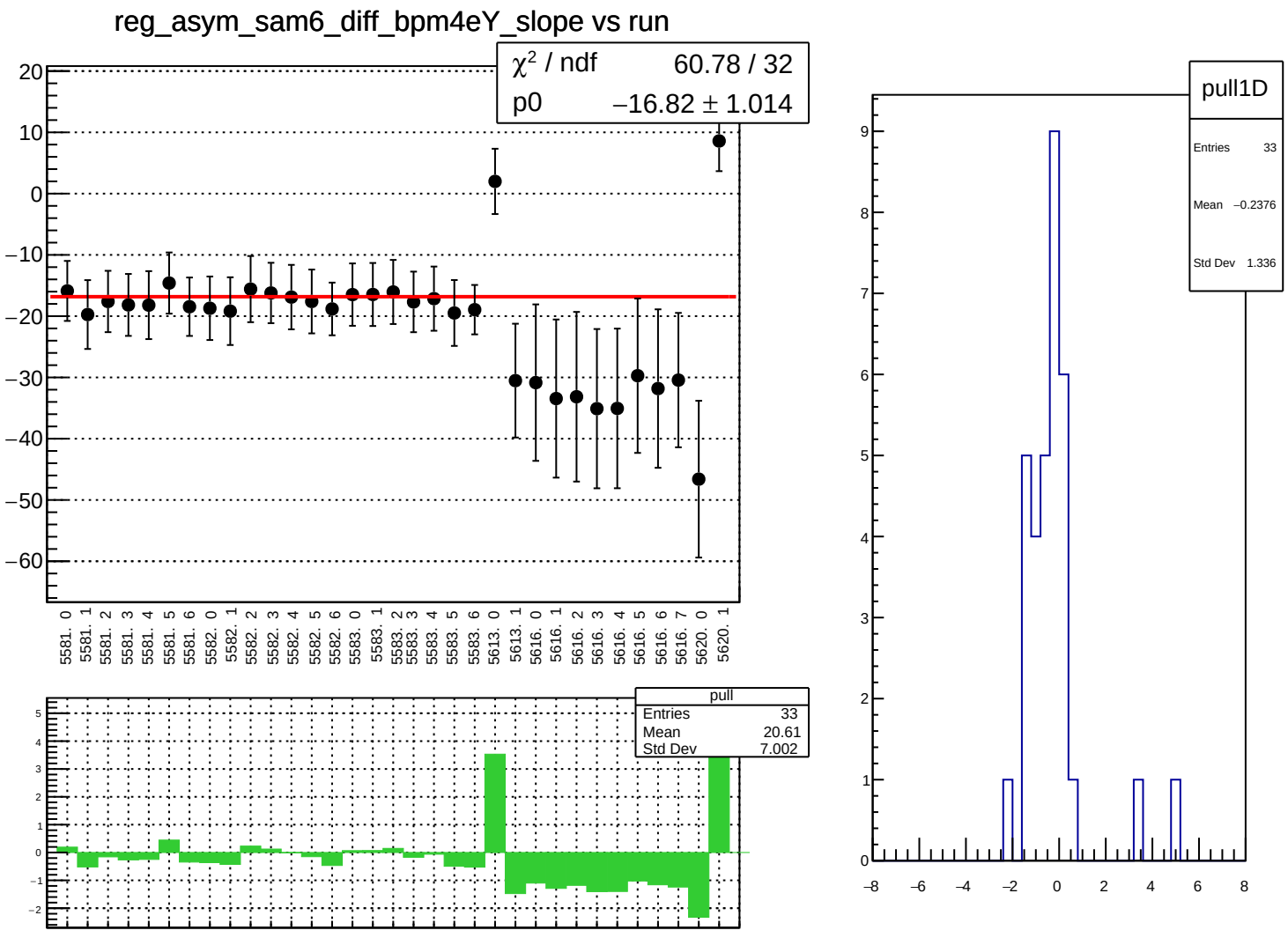

pull1D
Entries 33
Mean −0.2118
Std Dev 0.847
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

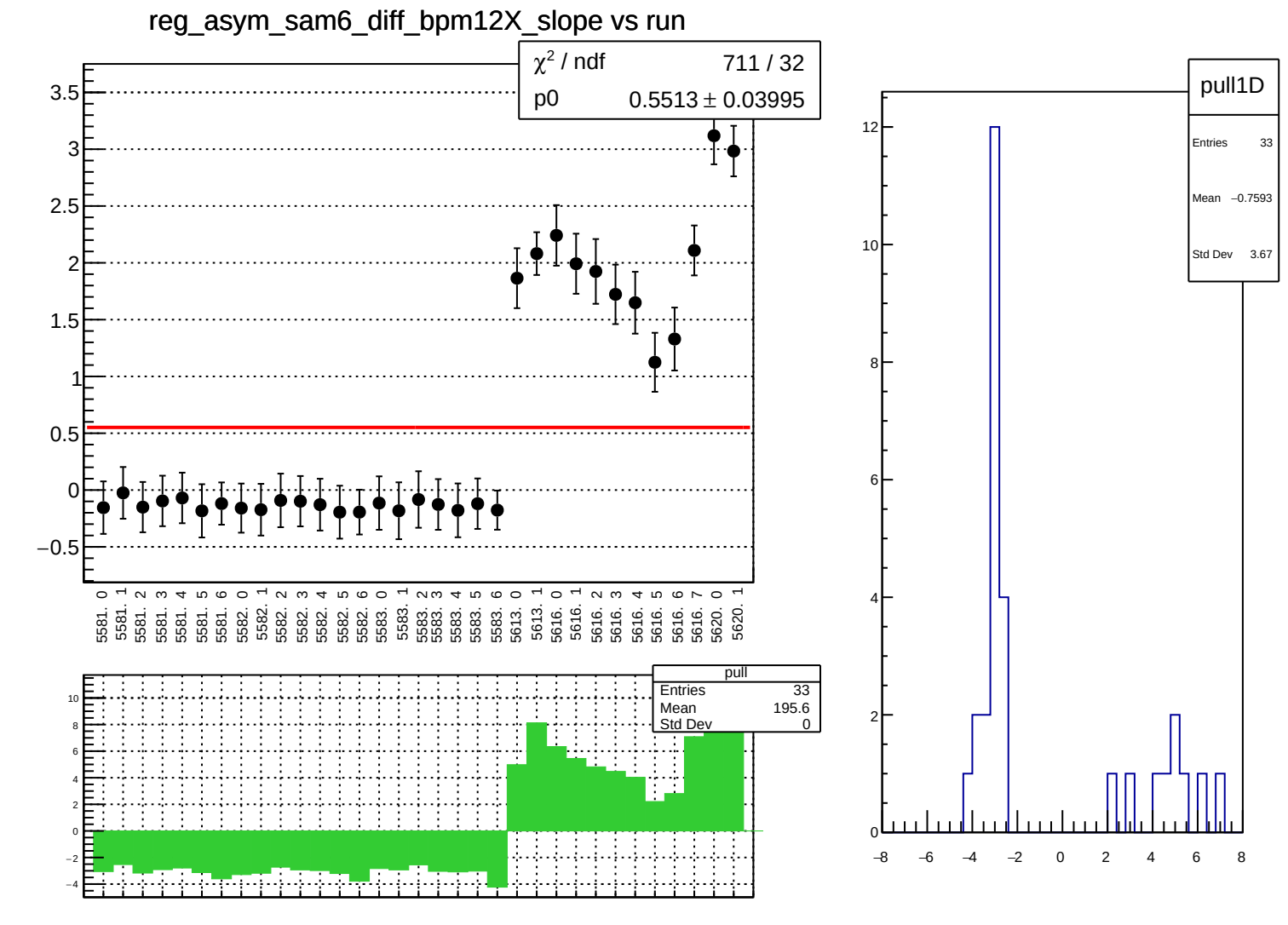

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 4597 / 32
p0 −0.6407 ± 0.04445
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.11
Std Dev 0
5
0
−5
−10
−15
−20
−25
pull1D
Entries 33
Mean 2.972
Std Dev 2.447
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

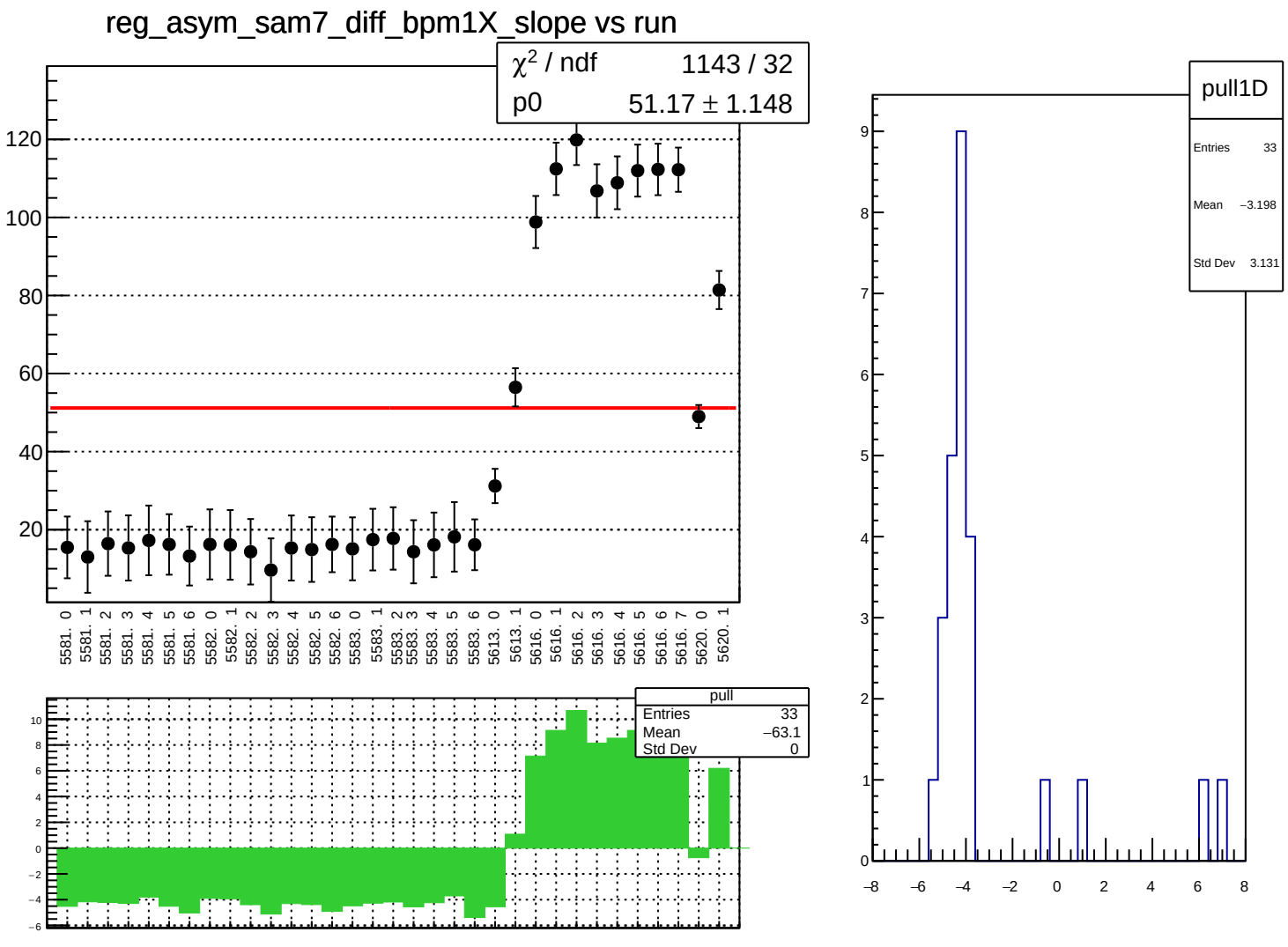

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 813.2 / 32
p0 26.36 ± 0.9937
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 58.15
Std Dev 0
10
8
6
4
2
0
−2
−4
pull1D
Entries 33
Mean −0.6104
Std Dev 3.66
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

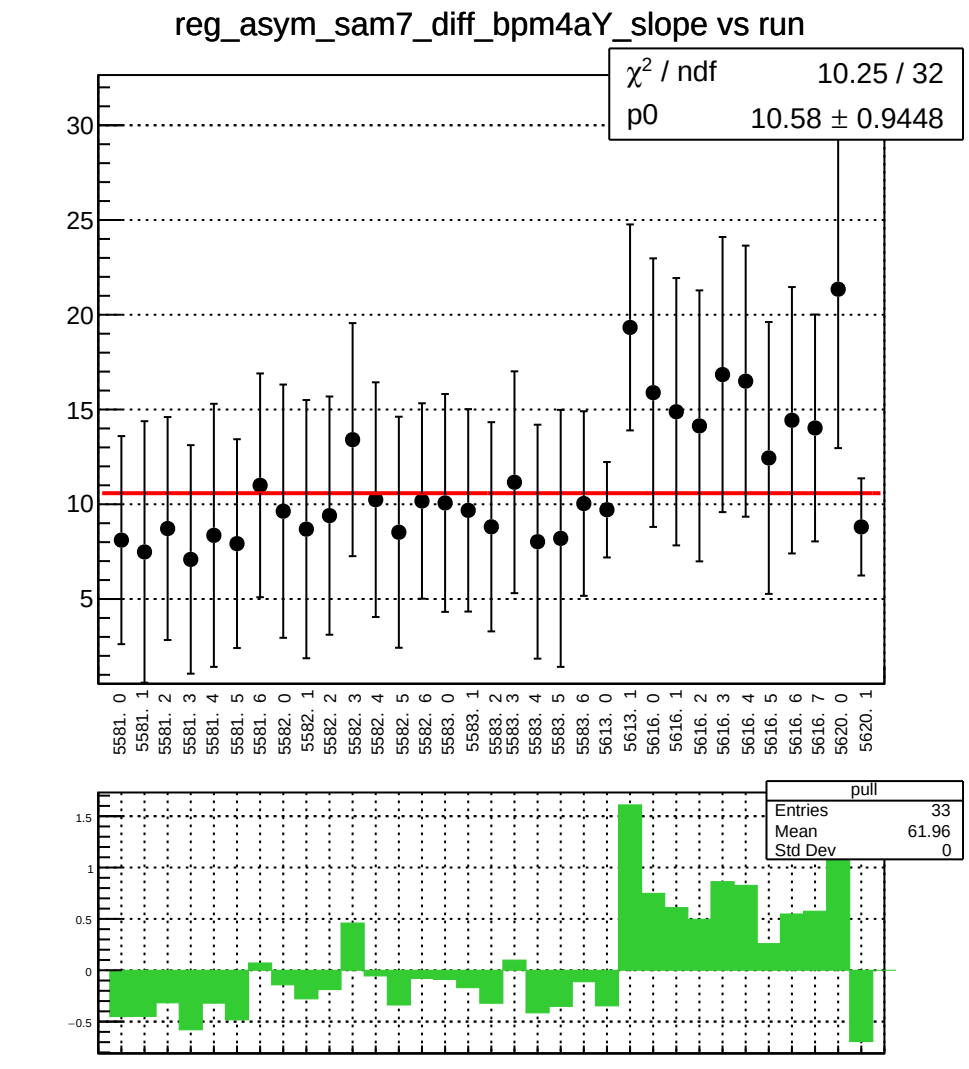

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 69.82 / 32
p0 52.66 ± 0.7738
pull
Entries 33
Mean 30.55
Std Dev 0
pull1D
Entries 33
Mean 0.3852
Std Dev 1.403

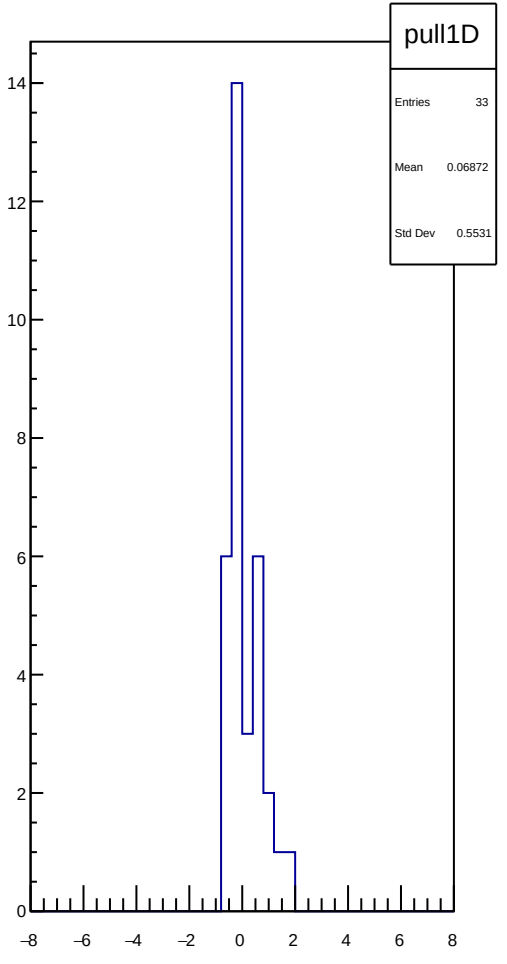

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 686 / 32
p0 0.1405 ± 0.7771
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 43.41
Std Dev 0
2
0
−2
−4
−6
−8
pull1D
Entries 33
Mean −0.1201
Std Dev 3.507
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

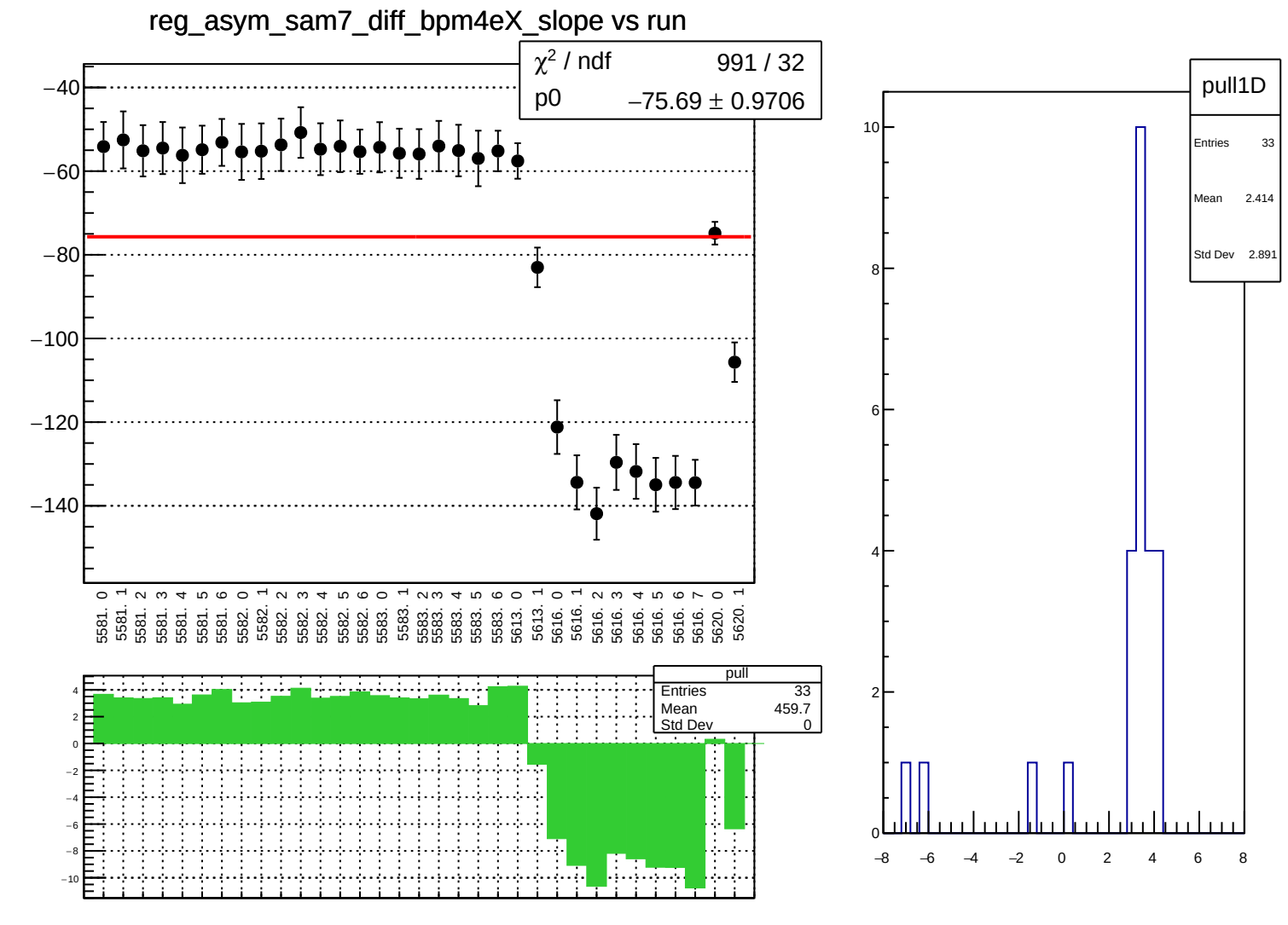

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 60.78 / 32
p0 −16.82 ± 1.014
pull
Entries 33
Mean 20.61
Std Dev 7.002
pull1D
Entries 33
Mean −0.2376
Std Dev 1.336

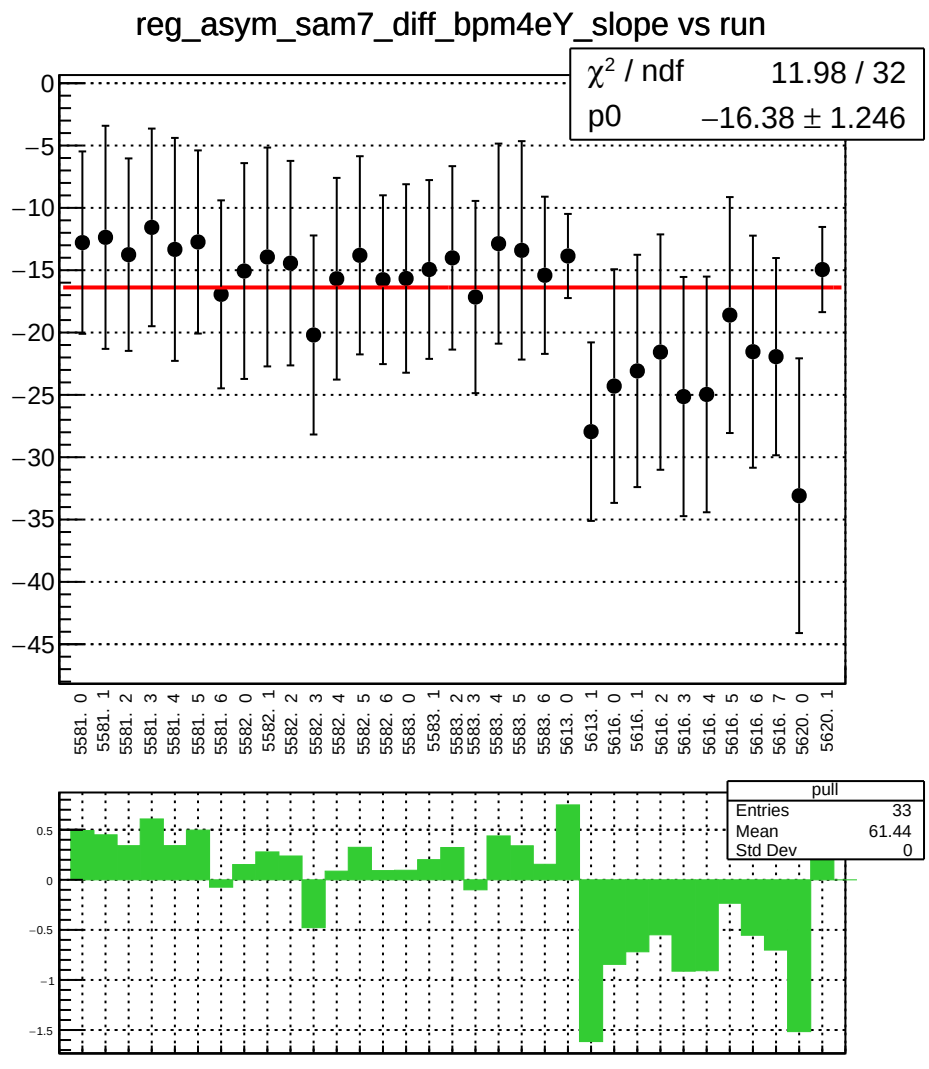

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 711 / 32
p0 0.5513 ± 0.03995
pull
Entries 33
Mean 195.6
Std Dev 0
pull1D
Entries 33
Mean −0.7593
Std Dev 3.67

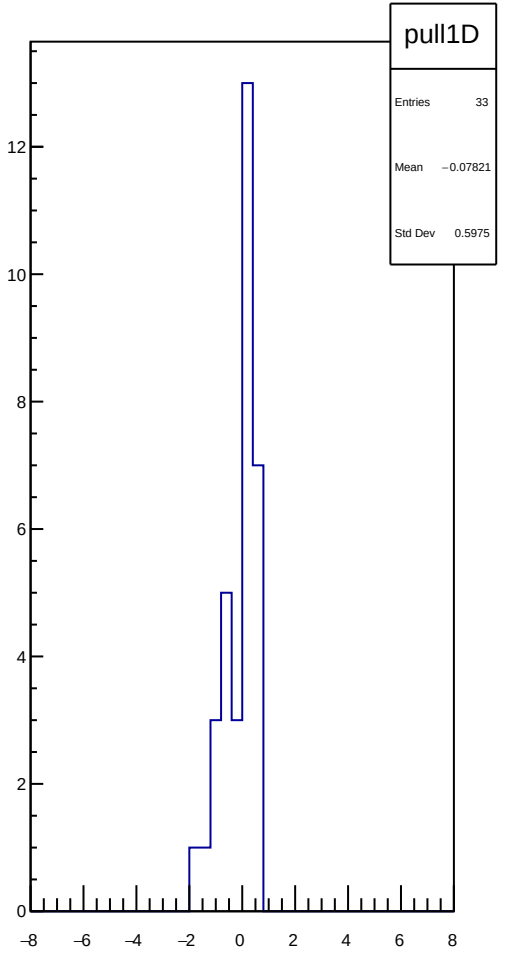

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 1143 / 32
p0 51.17 ± 1.148
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −63.1
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 33
Mean −3.198
Std Dev 3.131
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

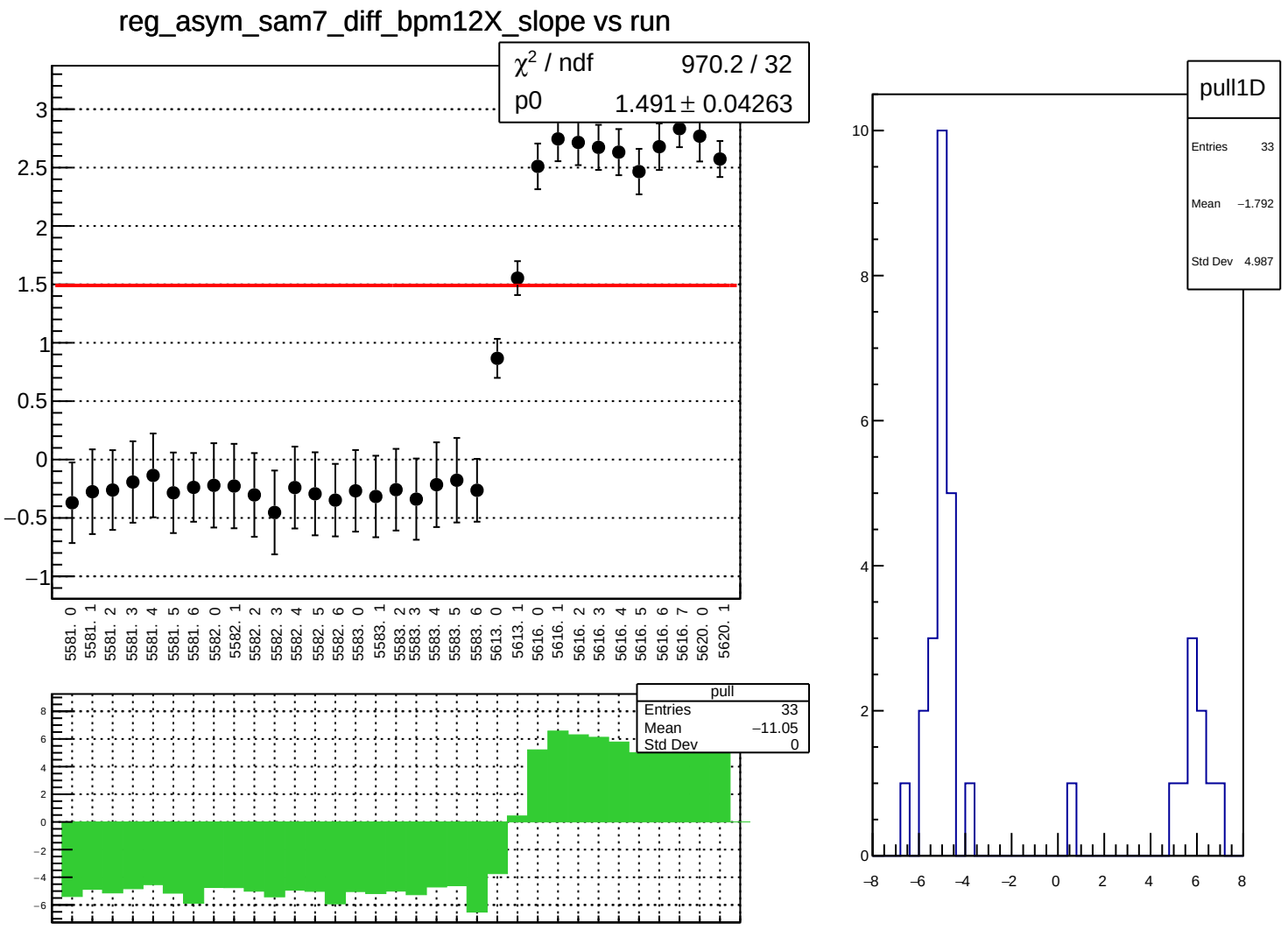

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 10.25 / 32
p0 10.58 ± 0.9448
30
25
20
15
10
5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 61.96
Std Dev 0
1.5
1
0.5
0
−0.5

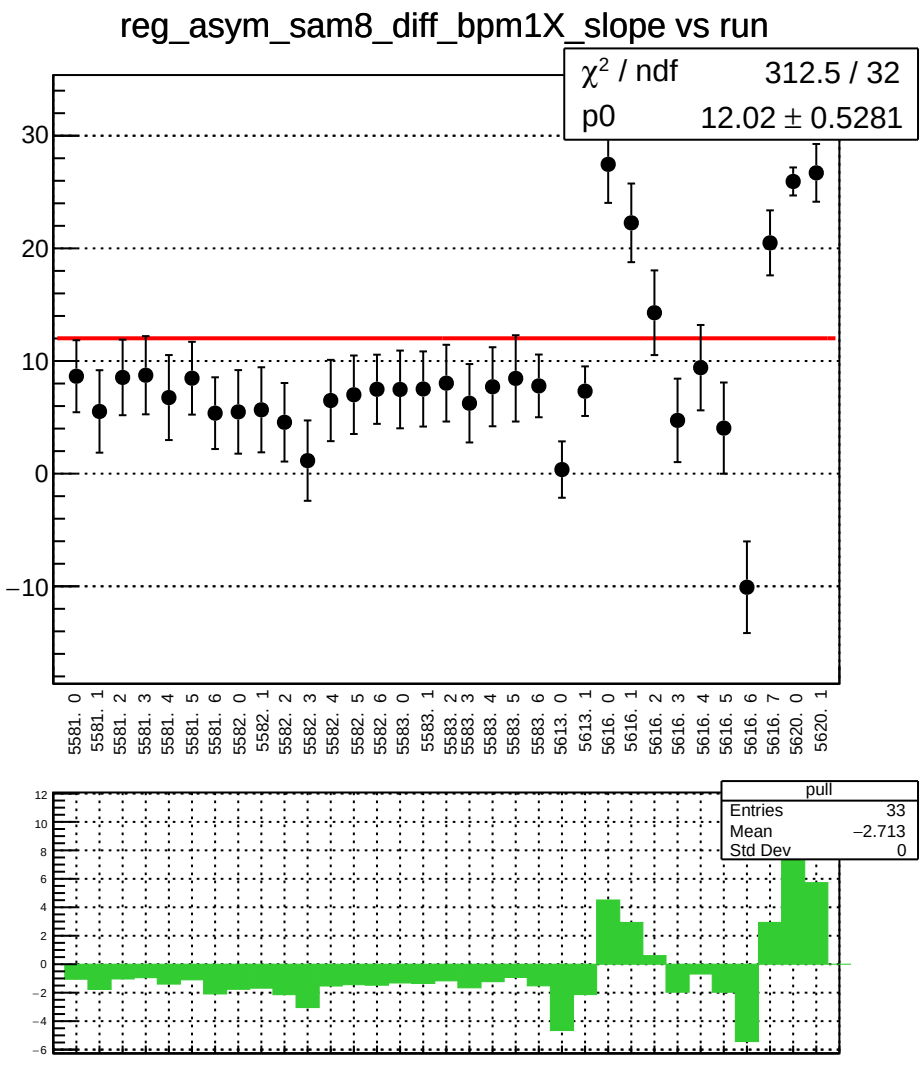

pull1D
Entries 33
Mean 0.06872
Std Dev 0.5531
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

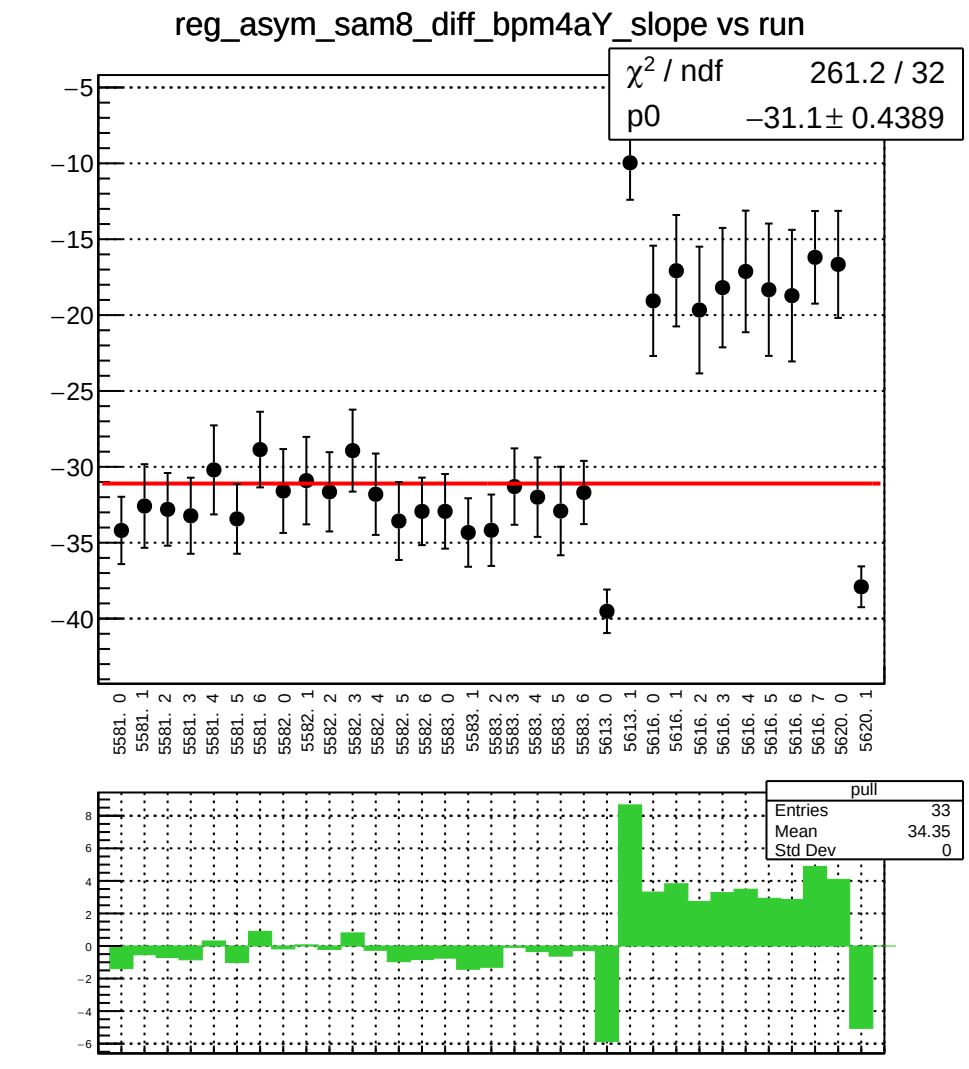

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 991 / 32
p0 −75.69 ± 0.9706
−40
−60
−80
−100
−120
−140
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 459.7
Std Dev 0
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 33
Mean 2.414
Std Dev 2.891
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

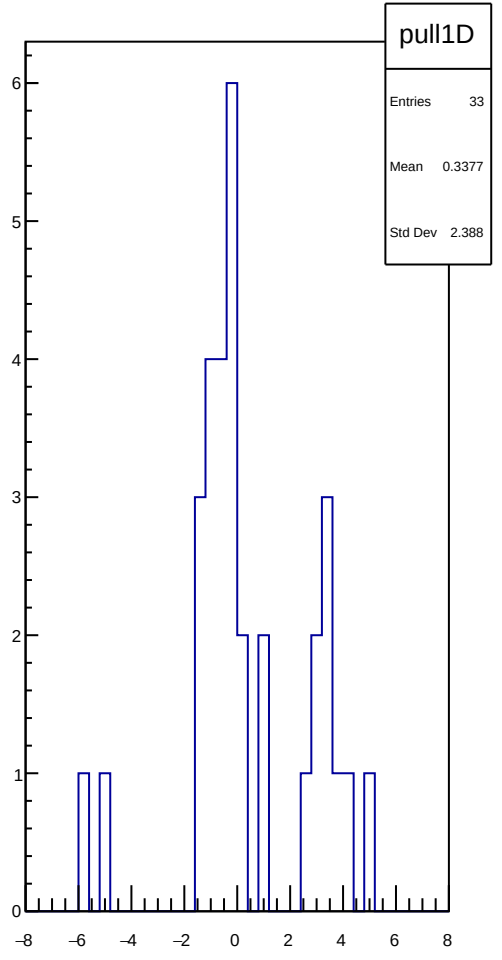

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 11.98 / 32
p0 −16.38 ± 1.246
0
−5
−10
−15
−20
−25
−30
−35
−40
−45
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 61.44
Std Dev 0
0.5
0
−0.5
−1
−1.5

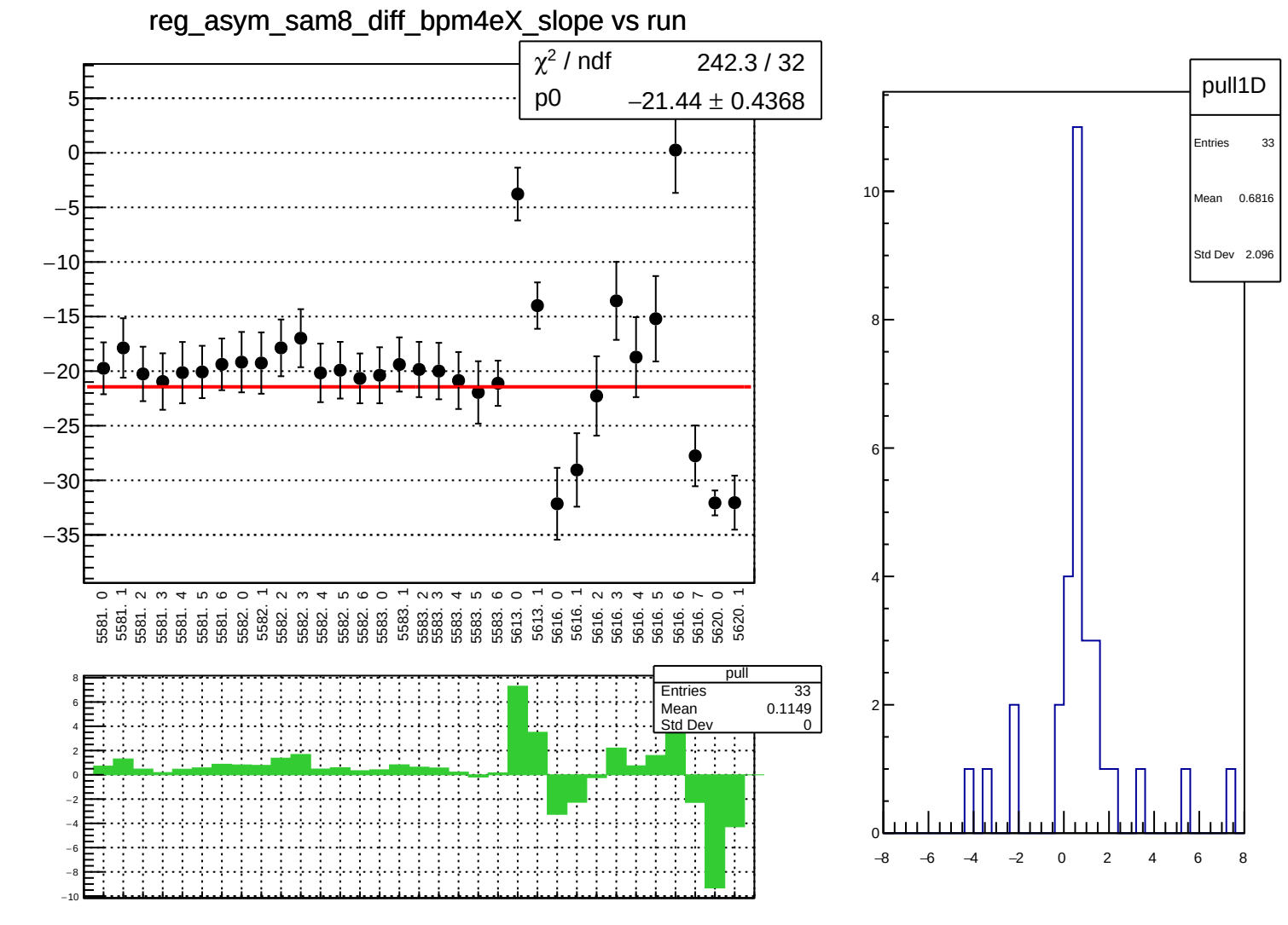

pull1D
Entries 33
Mean −0.07821
Std Dev 0.5975
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

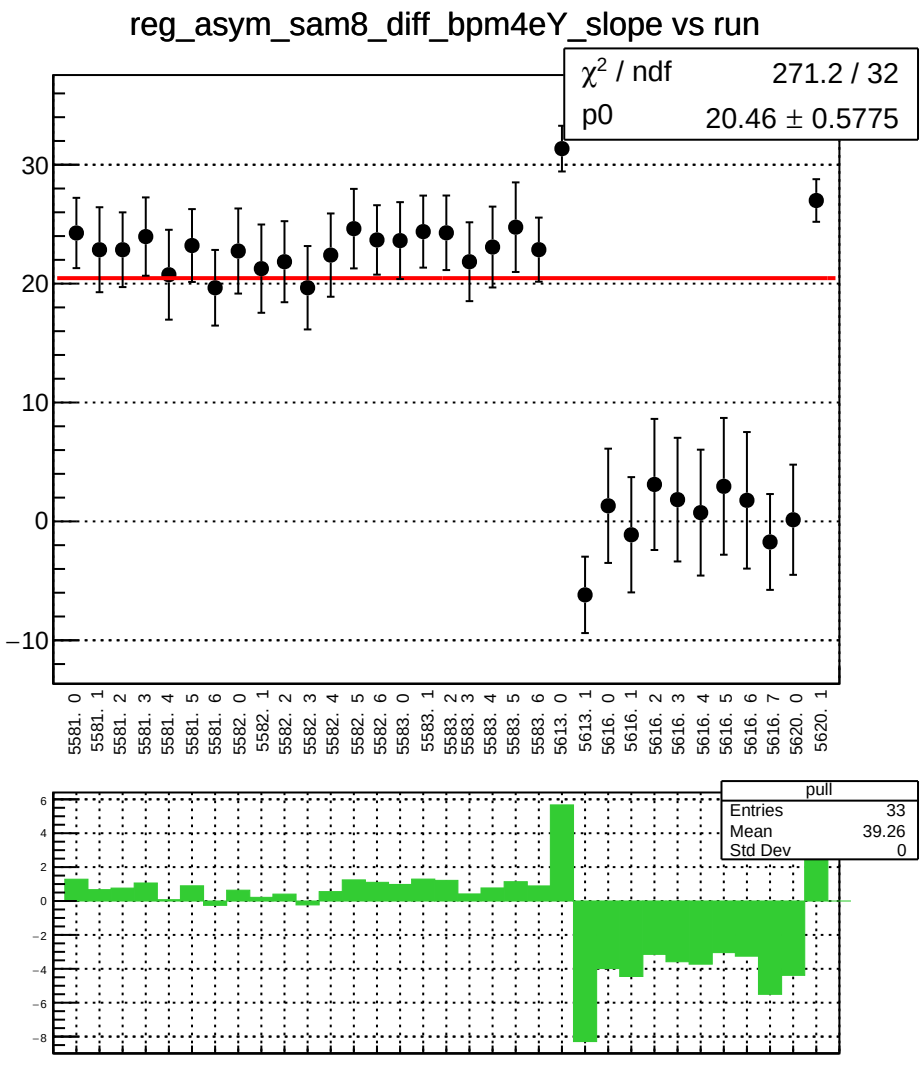

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 970.2 / 32
p0 1.491 ± 0.04263
pull
Entries 33
Mean −11.05
Std Dev 0
pull1D
Entries 33
Mean −1.792
Std Dev 4.987

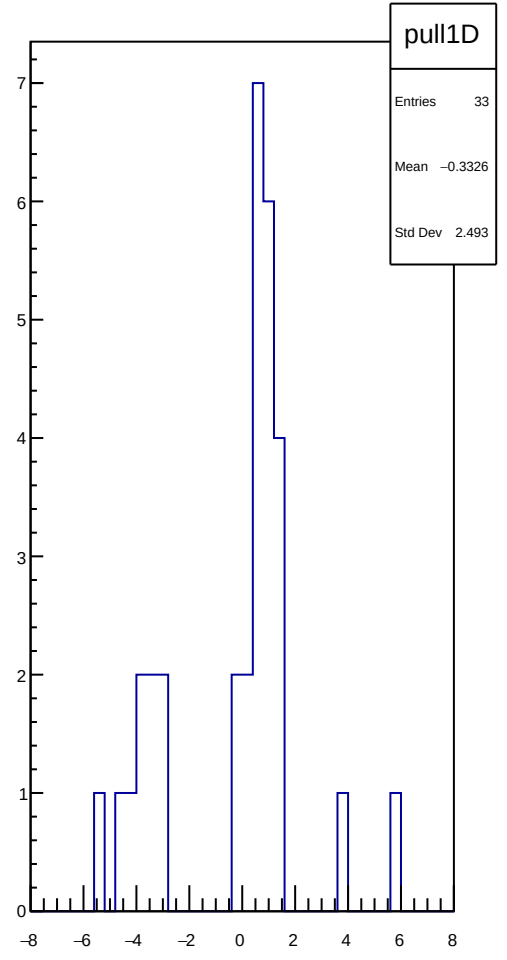

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 312.5 / 32
p0 12.02 ± 0.5281
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2.713
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 33
Mean −0.992
Std Dev 2.206
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

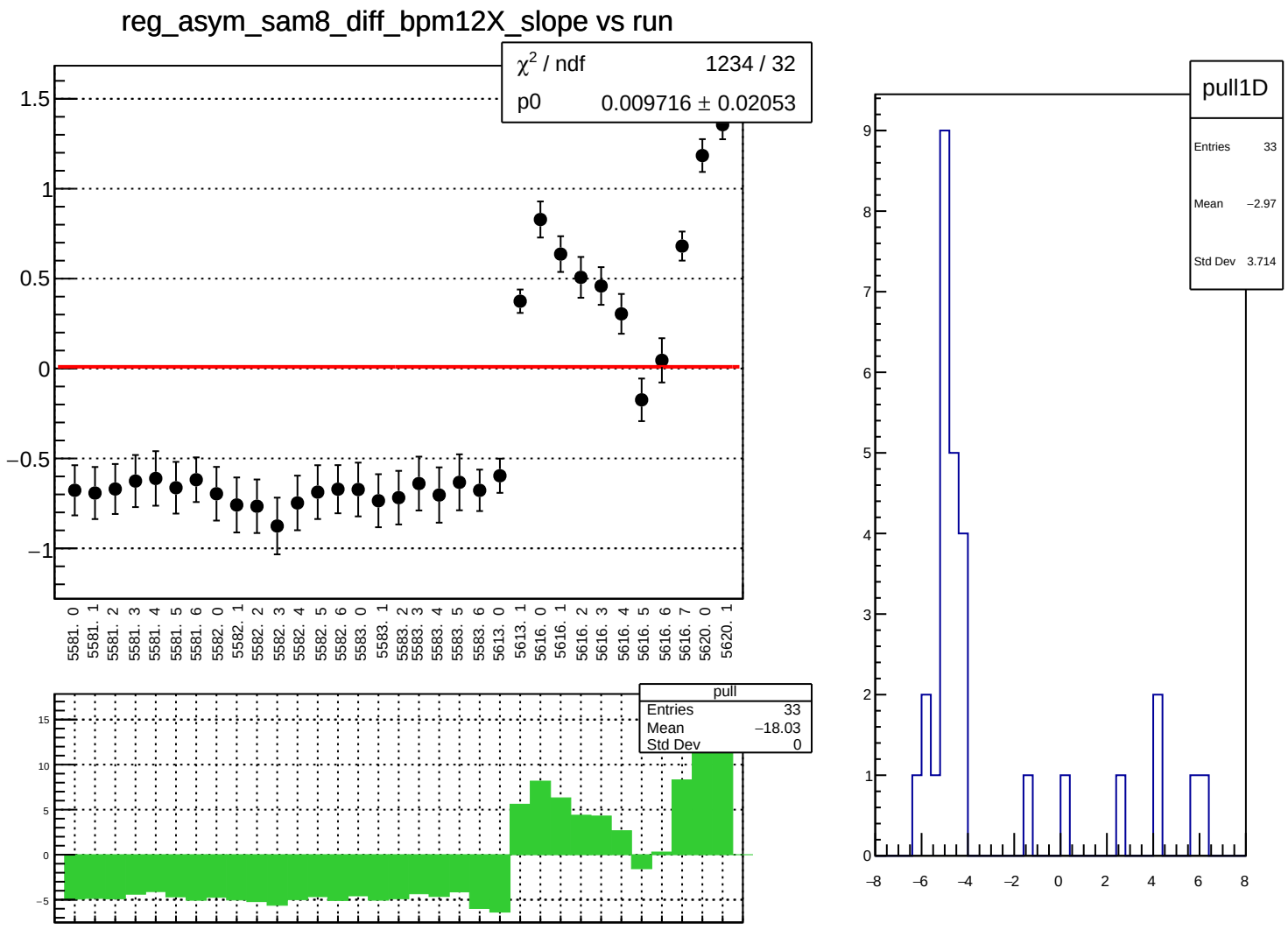

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 261.2 / 32
p0 −31.1 ± 0.4389
−5
−10
−15
−20
−25
−30
−35
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.35
Std Dev 0
8
6
4
2
0
−2
−4
−6

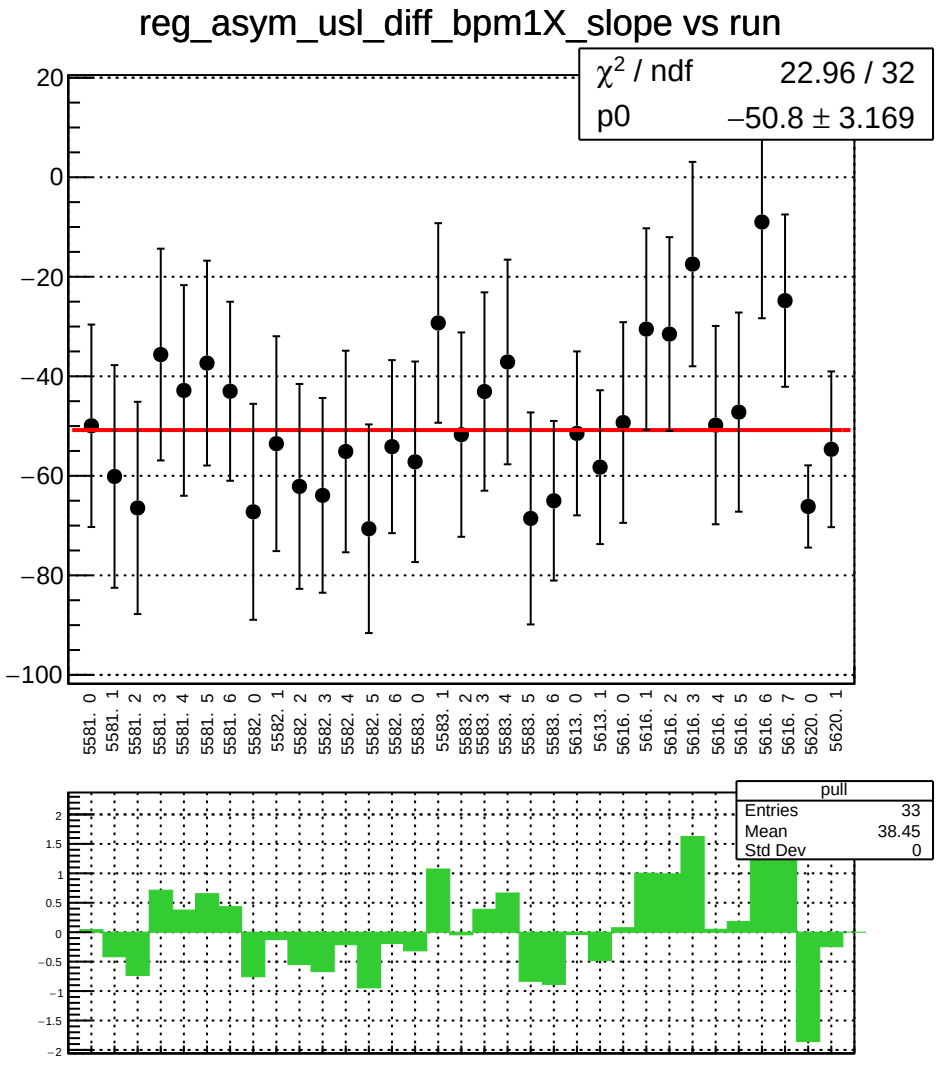

pull1D
Entries 33
Mean 0.3377
Std Dev 2.388
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

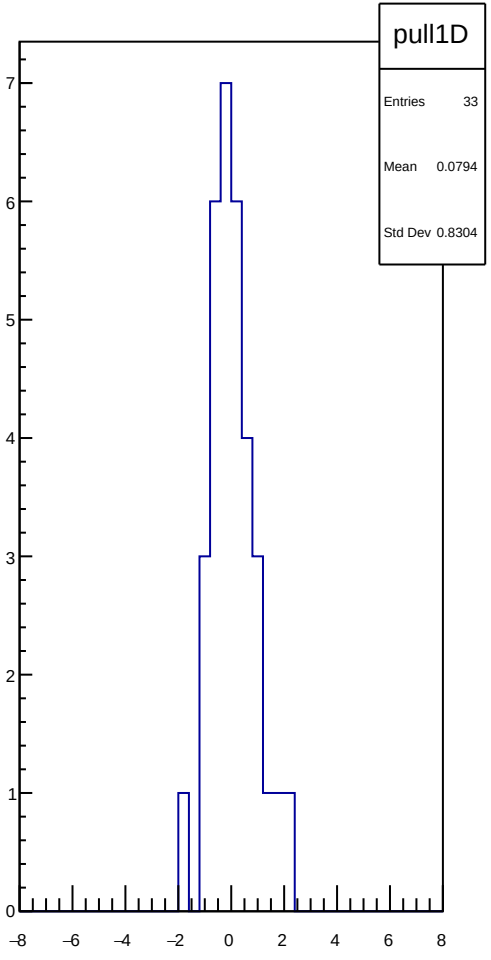

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 242.3 / 32
p0 −21.44 ± 0.4368
5
0
−5
−10
−15
−20
−25
−30
−35
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 0.1149
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 33
Mean 0.6816
Std Dev 2.096
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

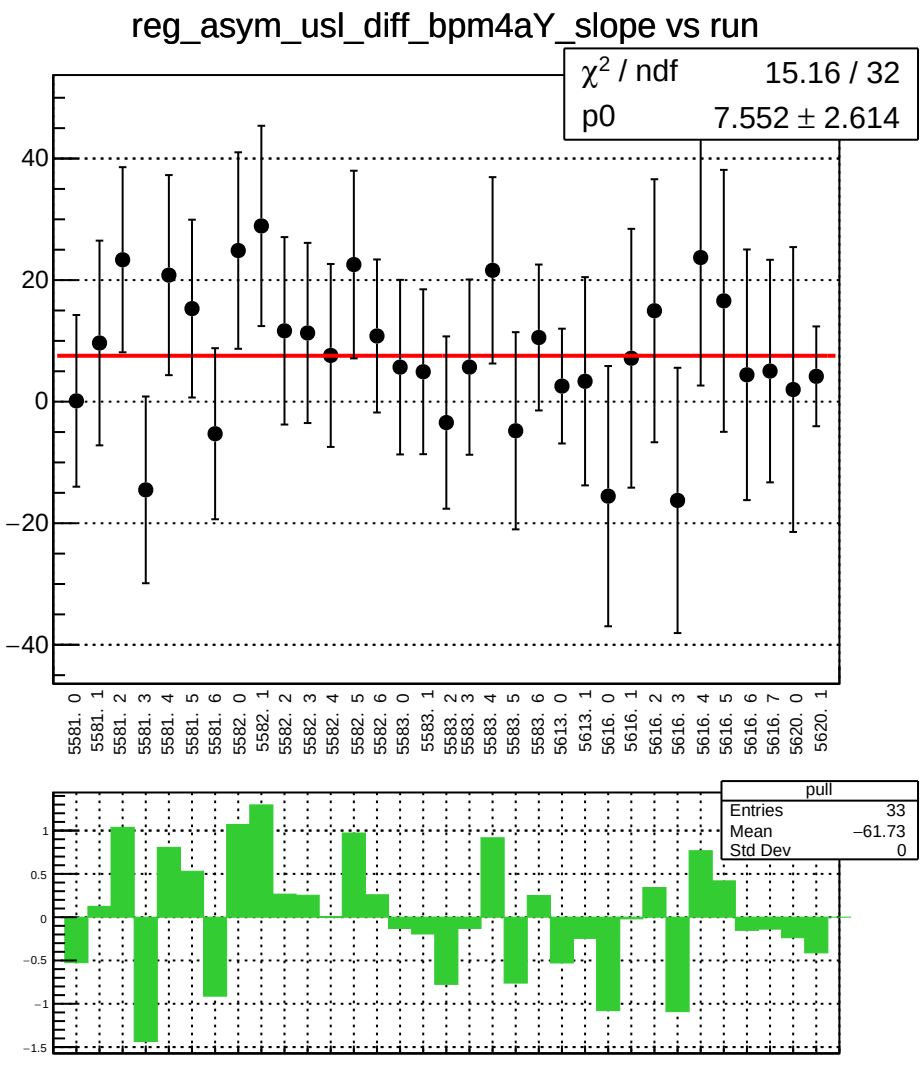

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 271.2 / 32
p0 20.46 ± 0.5775
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.26
Std Dev 0
6
4
2
0
−2
−4
−6
−8

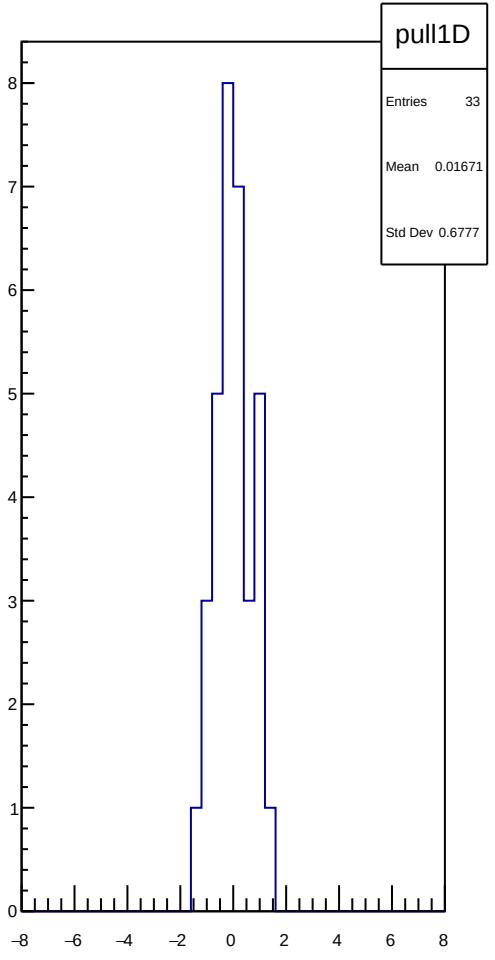

pull1D
Entries 33
Mean −0.3326
Std Dev 2.493
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

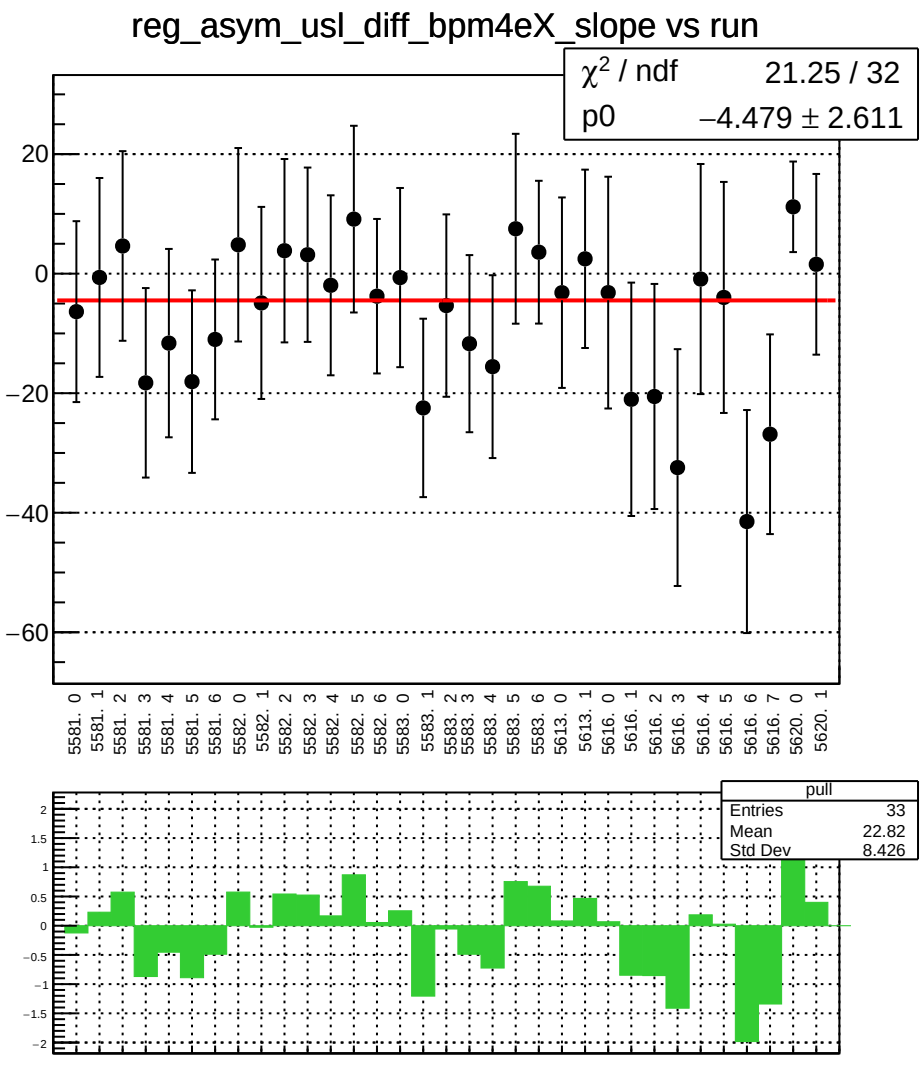

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 1234 / 32
p0 0.009716 ± 0.02053
1.5
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −18.03
Std Dev 0
15
10
5
0
−5
pull1D
Entries 33
Mean −2.97
Std Dev 3.714
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

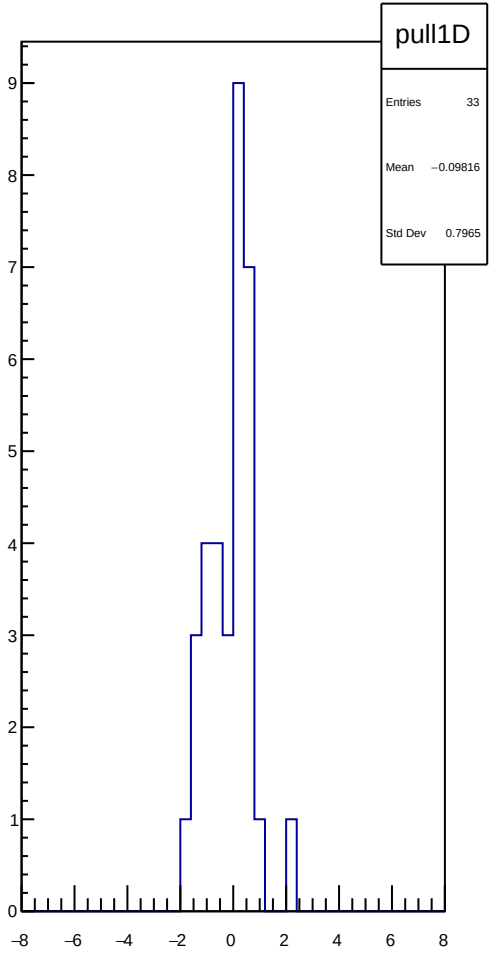

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 22.96 / 32
p0 −50.8 ± 3.169
pull
Entries 33
Mean 38.45
Std Dev 0

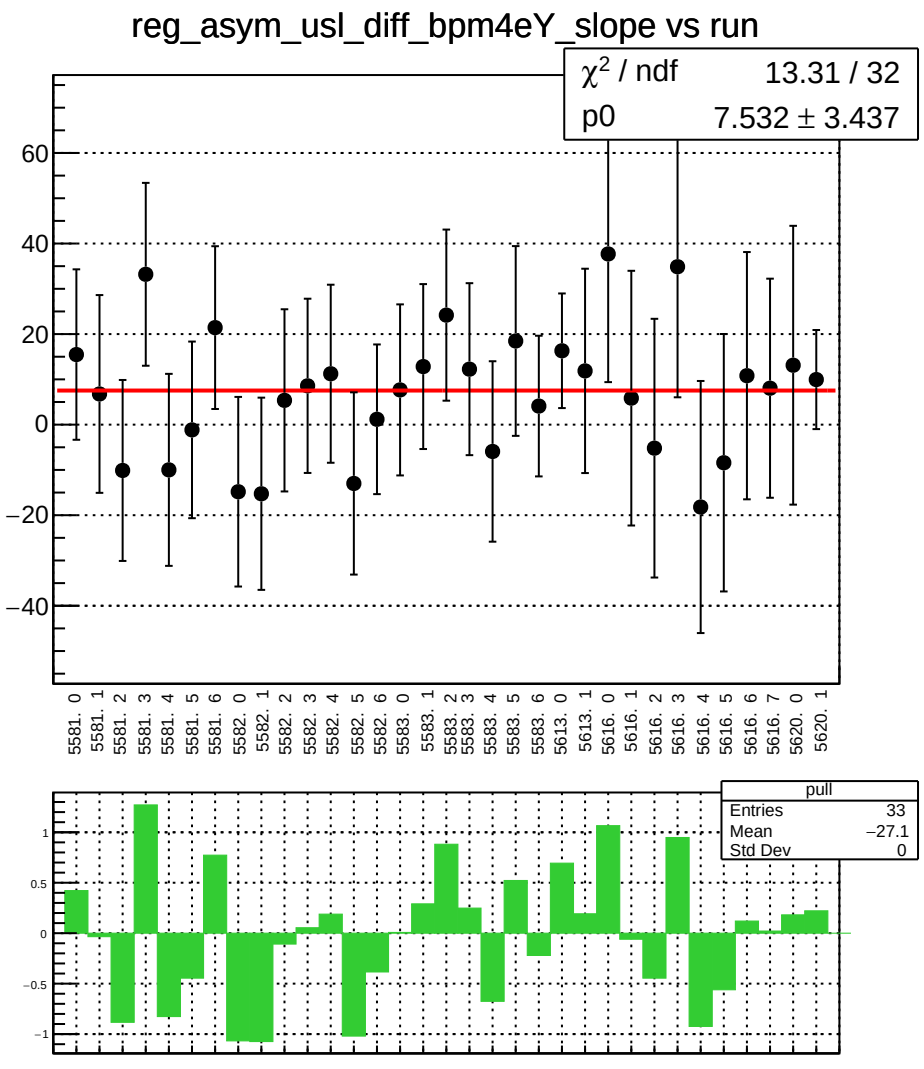

pull1D
Entries 33
Mean 0.0794
Std Dev 0.8304

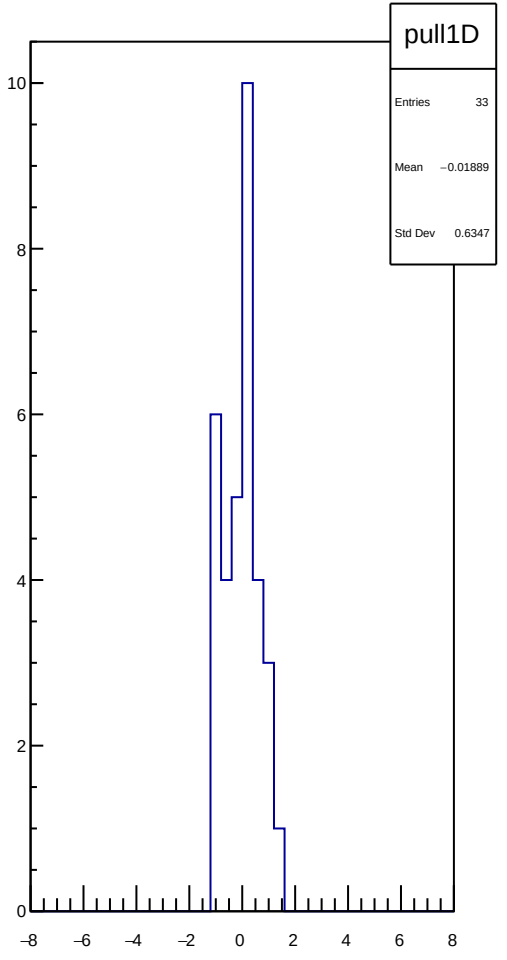

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 15.16 / 32
p0 7.552 ± 2.614
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −61.73
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

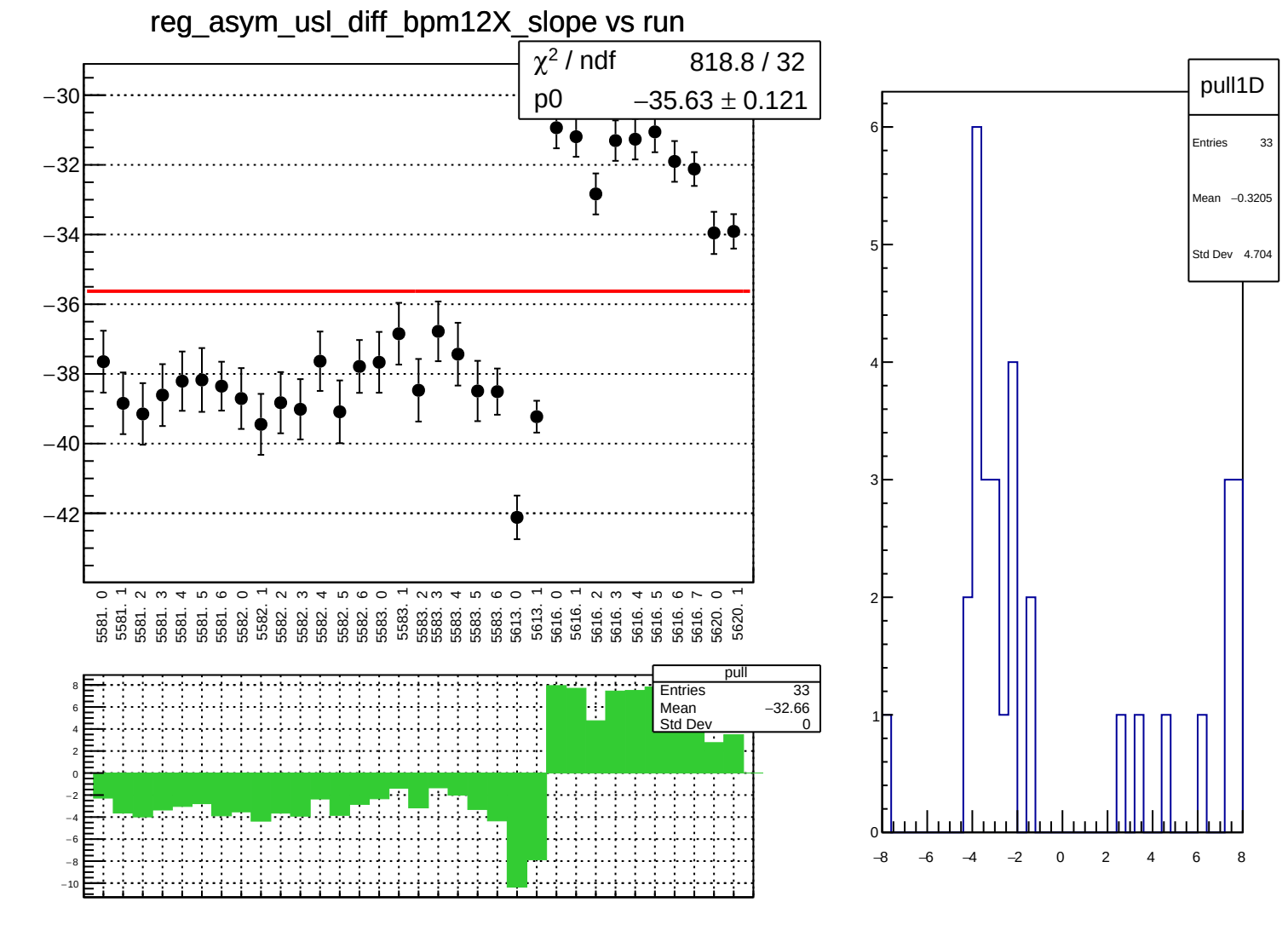

pull1D
Entries 33
Mean 0.01671
Std Dev 0.6777
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

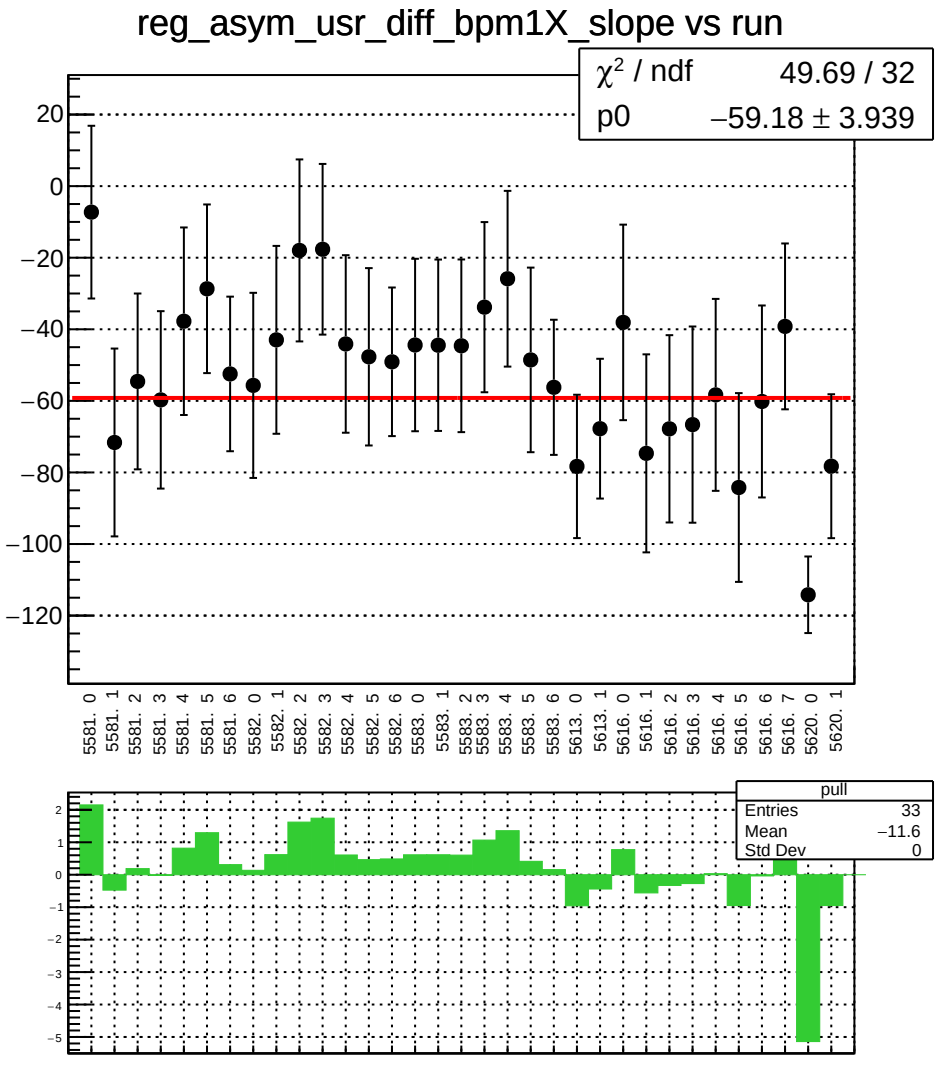

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 21.25 / 32
p0 −4.479 ± 2.611
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.82
Std Dev 8.426
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

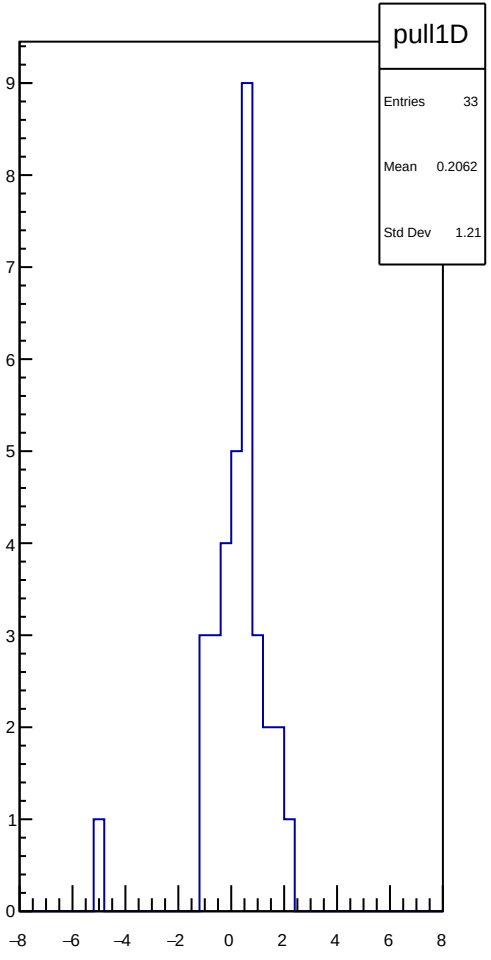

pull1D
Entries 33
Mean −0.09816
Std Dev 0.7965
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

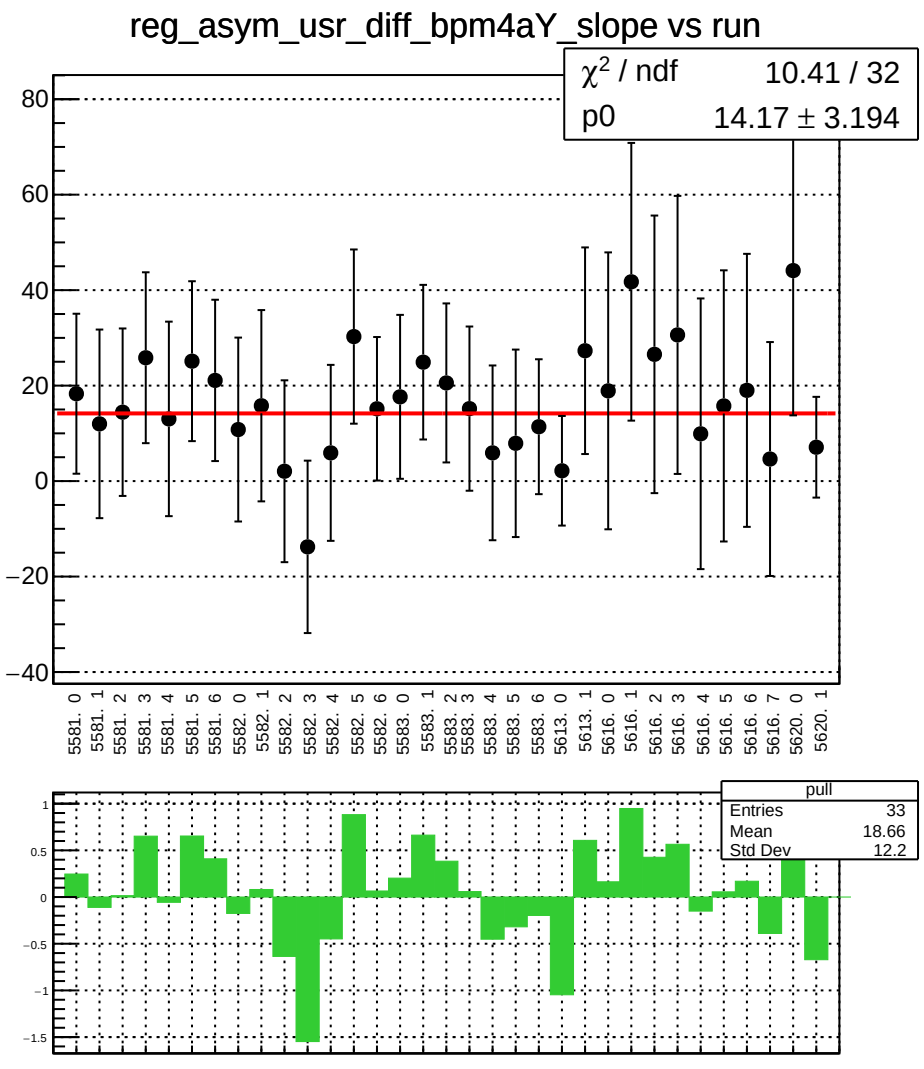

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 13.31 / 32
p0 7.532 ± 3.437
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −27.1
Std Dev 0
1
0.5
0
−0.5
−1

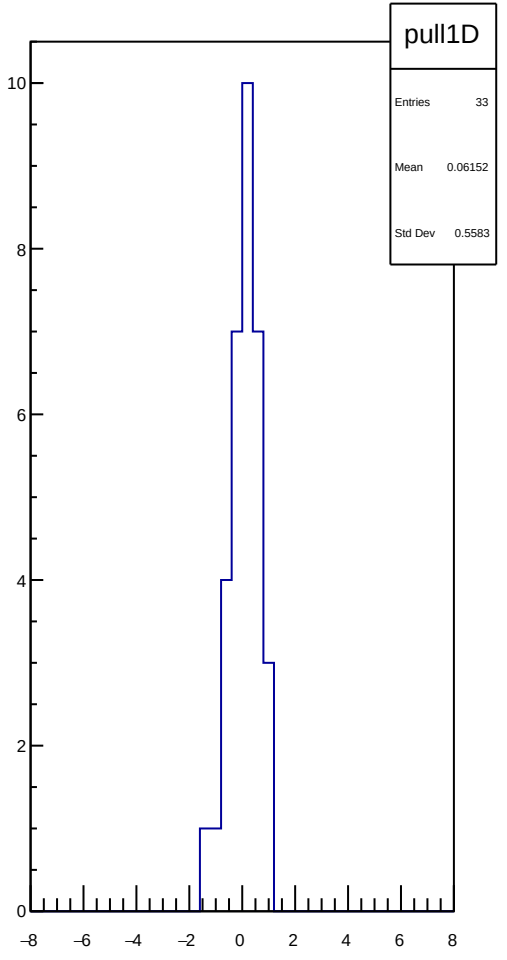

pull1D
Entries 33
Mean −0.01889
Std Dev 0.6347
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

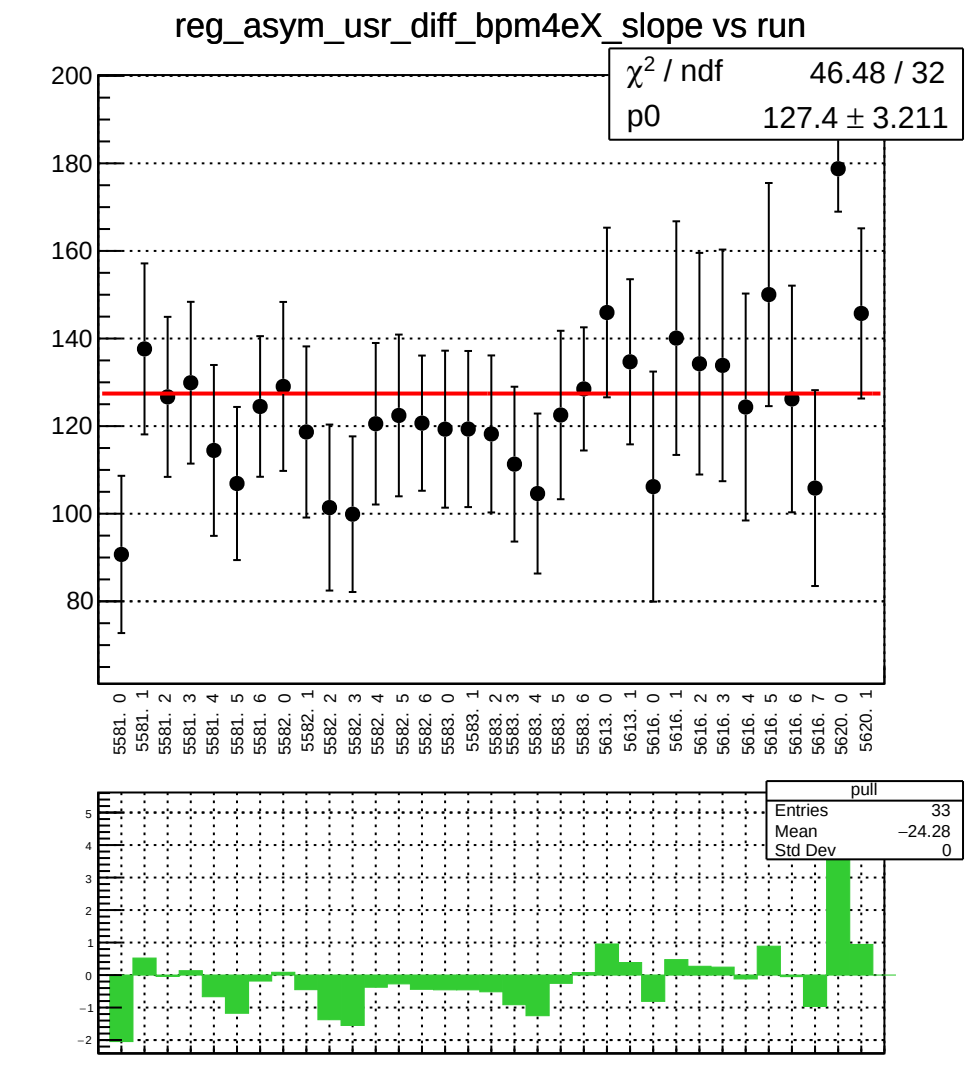

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 818.8 / 32
p0 −35.63 ± 0.121
−30
−32
−34
−36
−38
−40
−42
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −32.66
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 33
Mean −0.3205
Std Dev 4.704
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

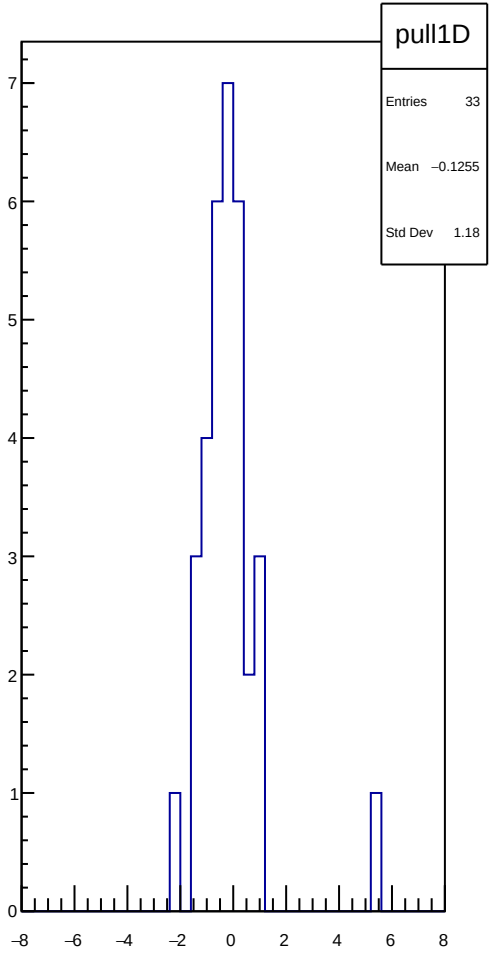

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 49.69 / 32
p0 −59.18 ± 3.939
pull
Entries 33
Mean −11.6
Std Dev 0

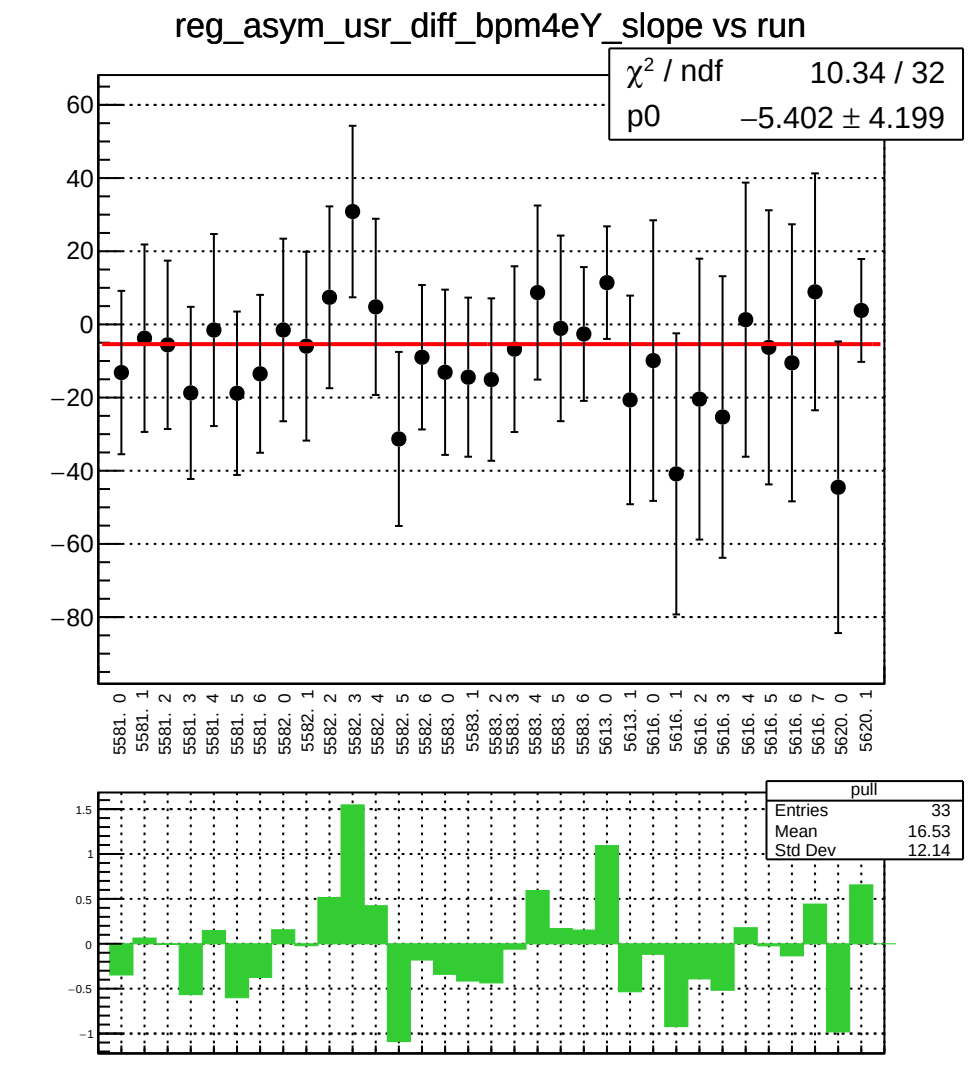

pull1D
Entries 33
Mean 0.2062
Std Dev 1.21

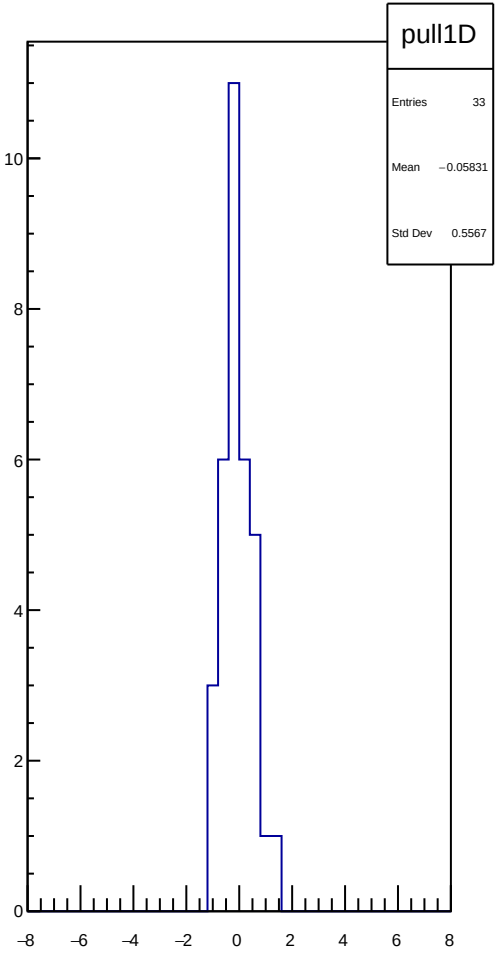

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 10.41 / 32
p0 14.17 ± 3.194
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.66
Std Dev 12.2
1
0.5
0
−0.5
−1
−1.5

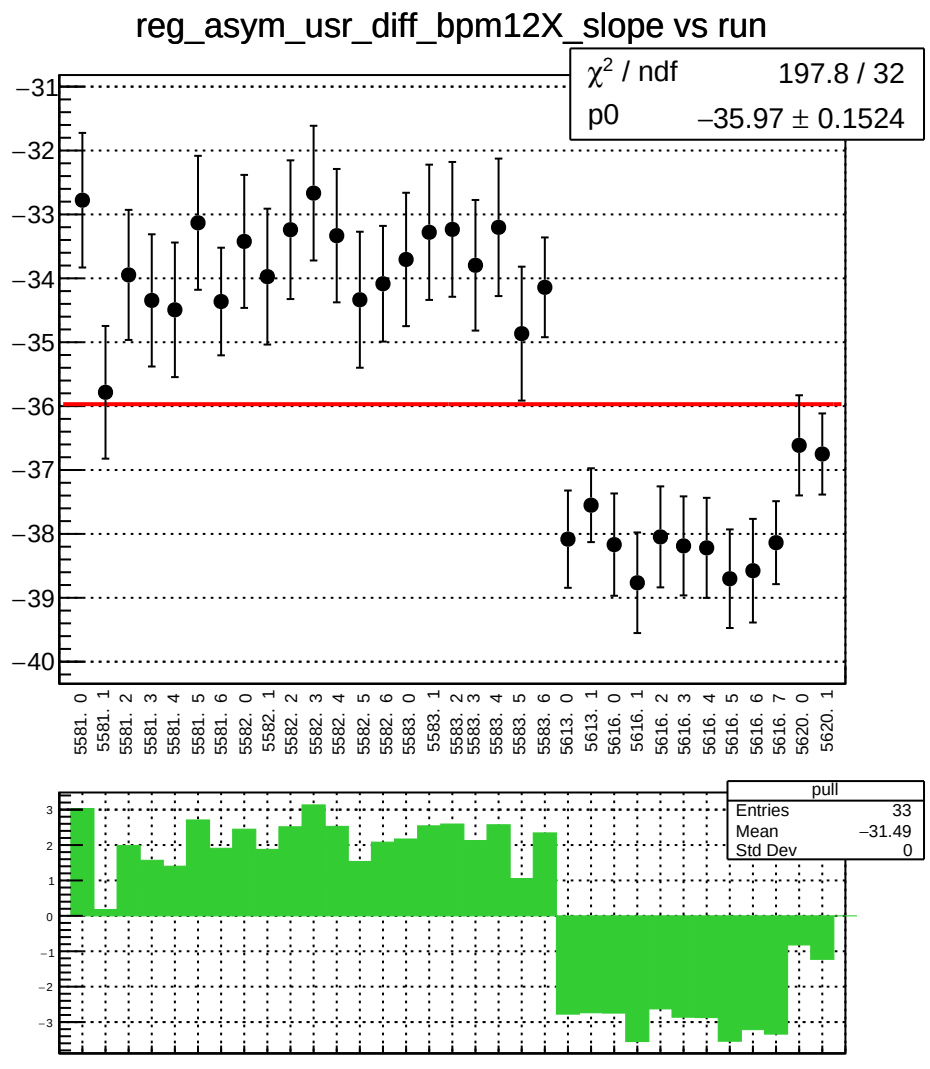

pull1D
Entries 33
Mean 0.06152
Std Dev 0.5583
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

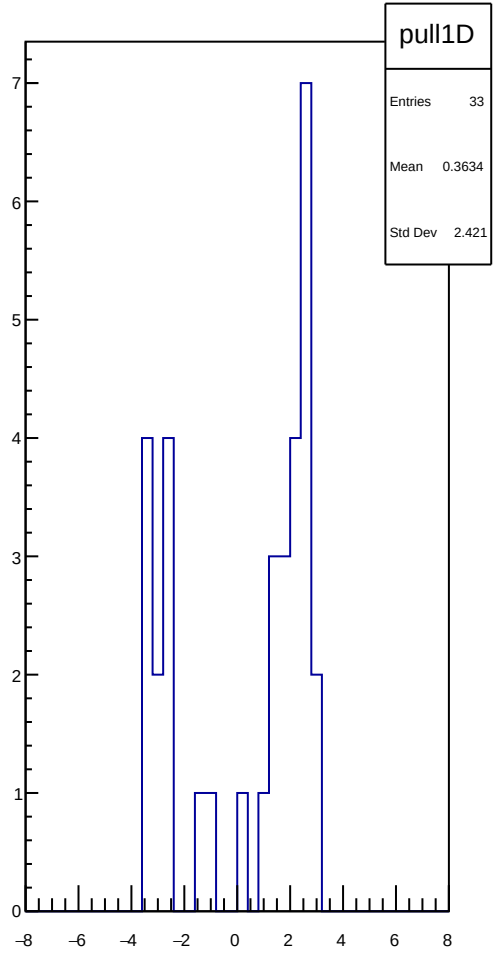

reg_asym_usr_diff_bpm4eX_slope vs run
χ2 / ndf 46.48 / 32
p0 127.4 ± 3.211
200
180
160
140
120
100
80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −24.28
Std Dev 0
5
4
3
2
1
0
−1
−2

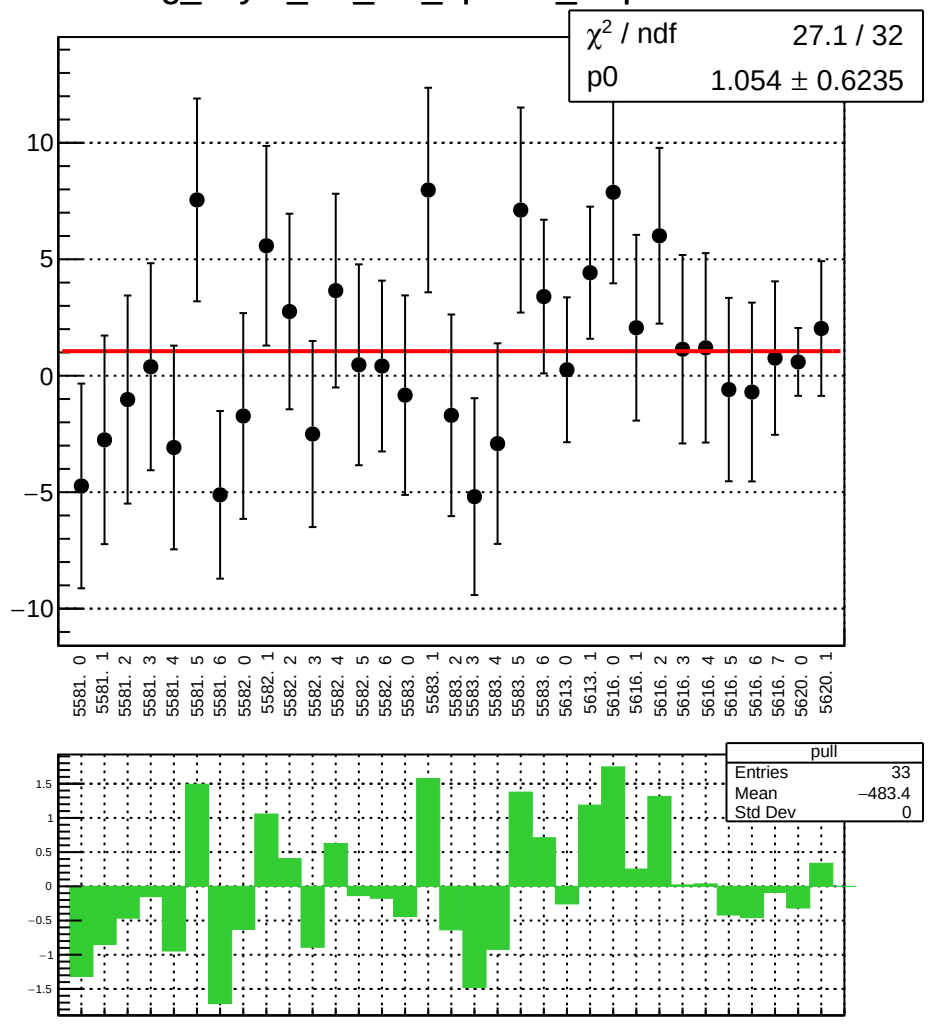

pull1D
Entries 33
Mean −0.1255
Std Dev 1.18
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

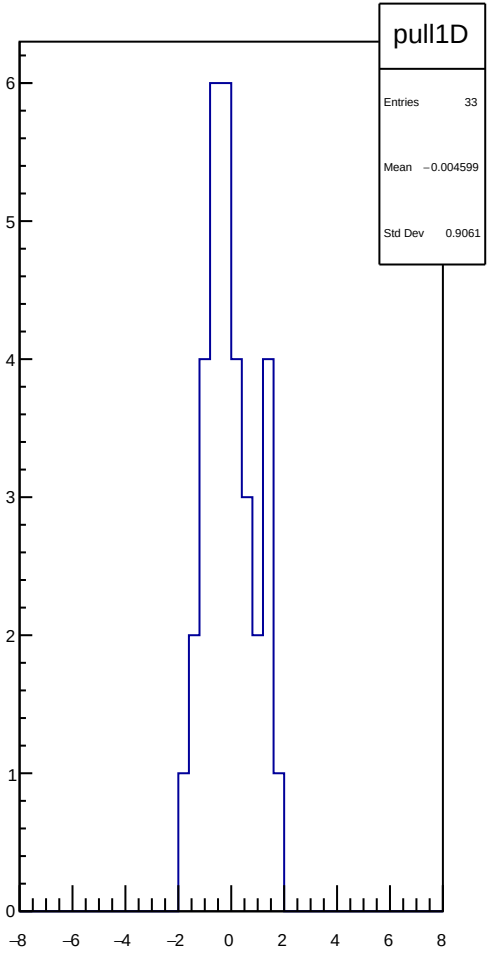

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 10.34 / 32
p0 −5.402 ± 4.199
pull
Entries 33
Mean 16.53
Std Dev 12.14

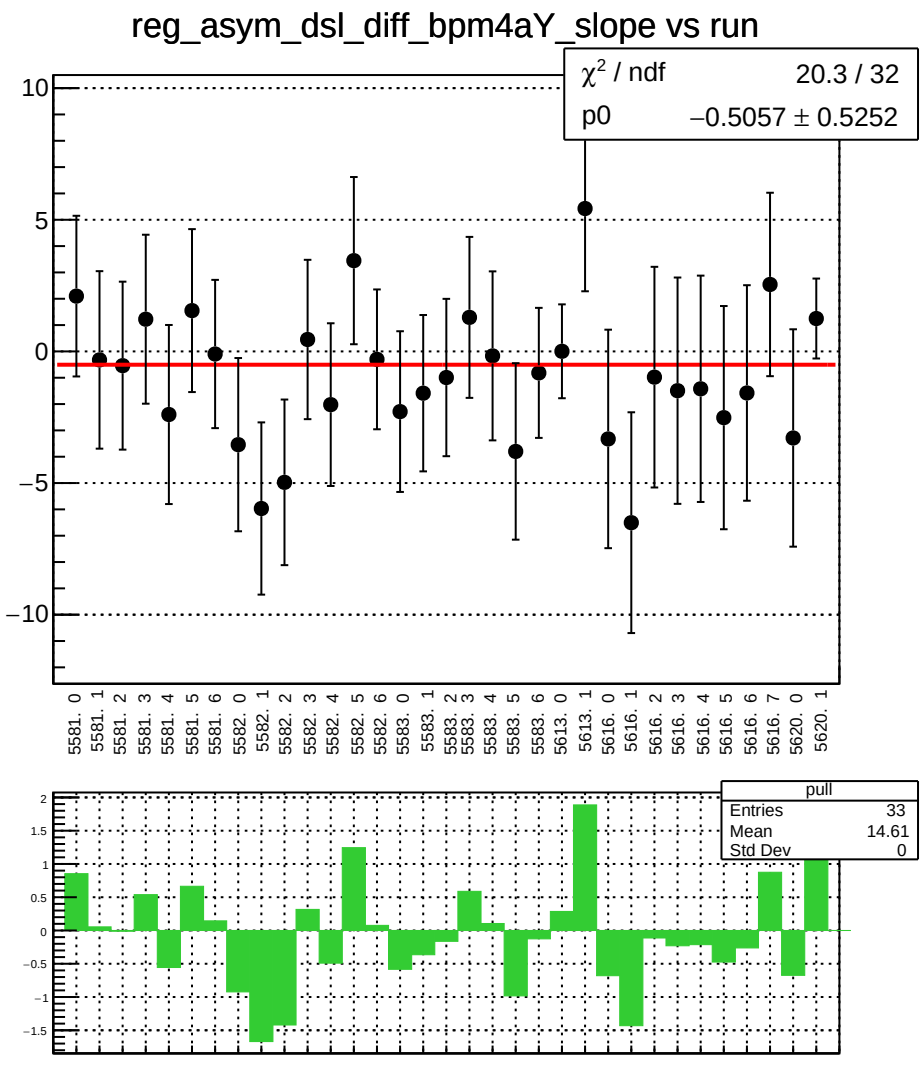

pull1D
Entries 33
Mean −0.05831
Std Dev 0.5567

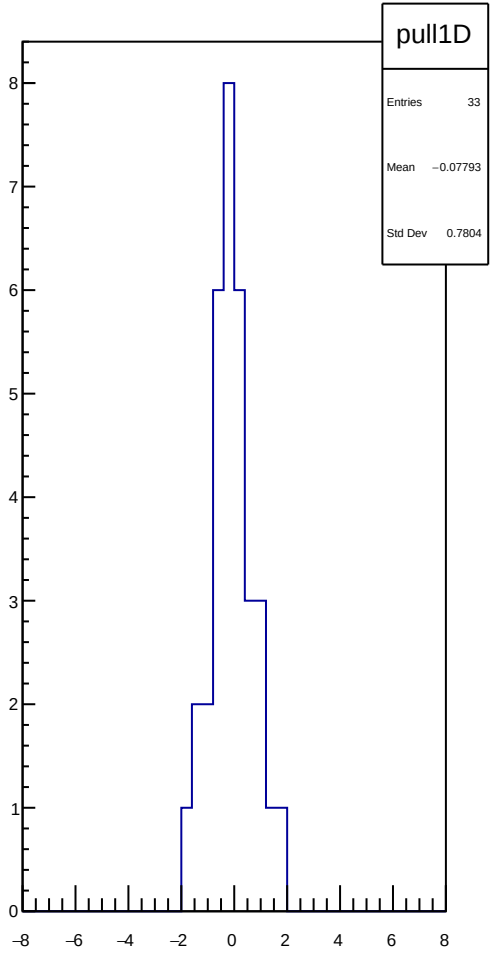

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 197.8 / 32
p0 −35.97 ± 0.1524
−31
−32
−33
−34
−35
−36
−37
−38
−39
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −31.49
Std Dev 0
3
2
1
0
−1
−2
−3

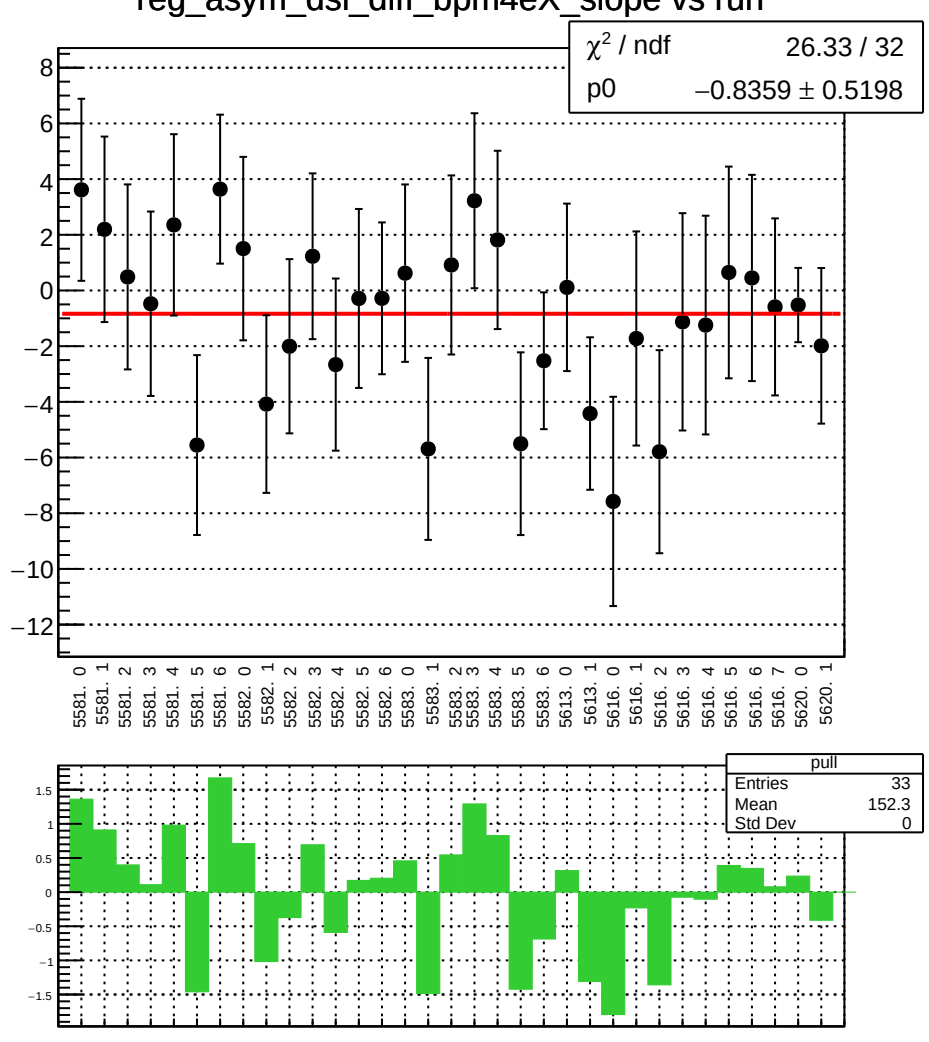

pull1D
Entries 33
Mean 0.3634
Std Dev 2.421
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

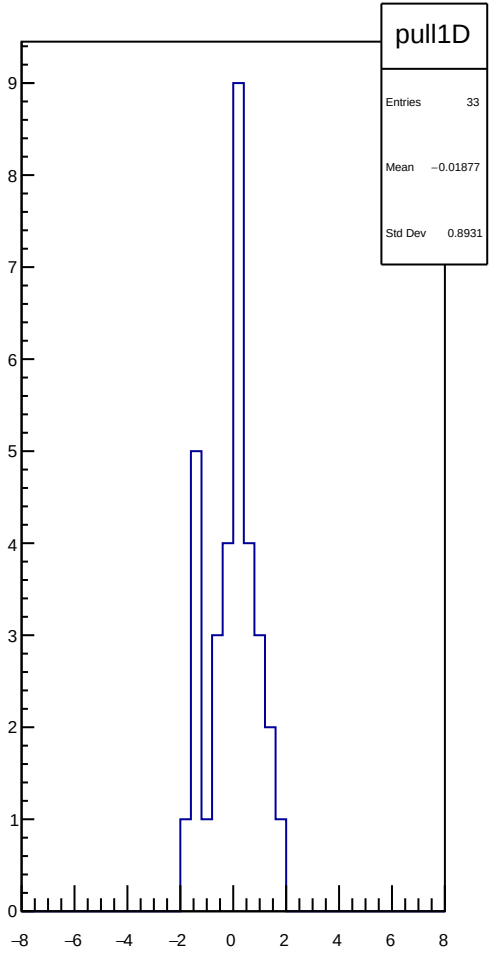

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 27.1 / 32
p0 1.054 ± 0.6235
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −483.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

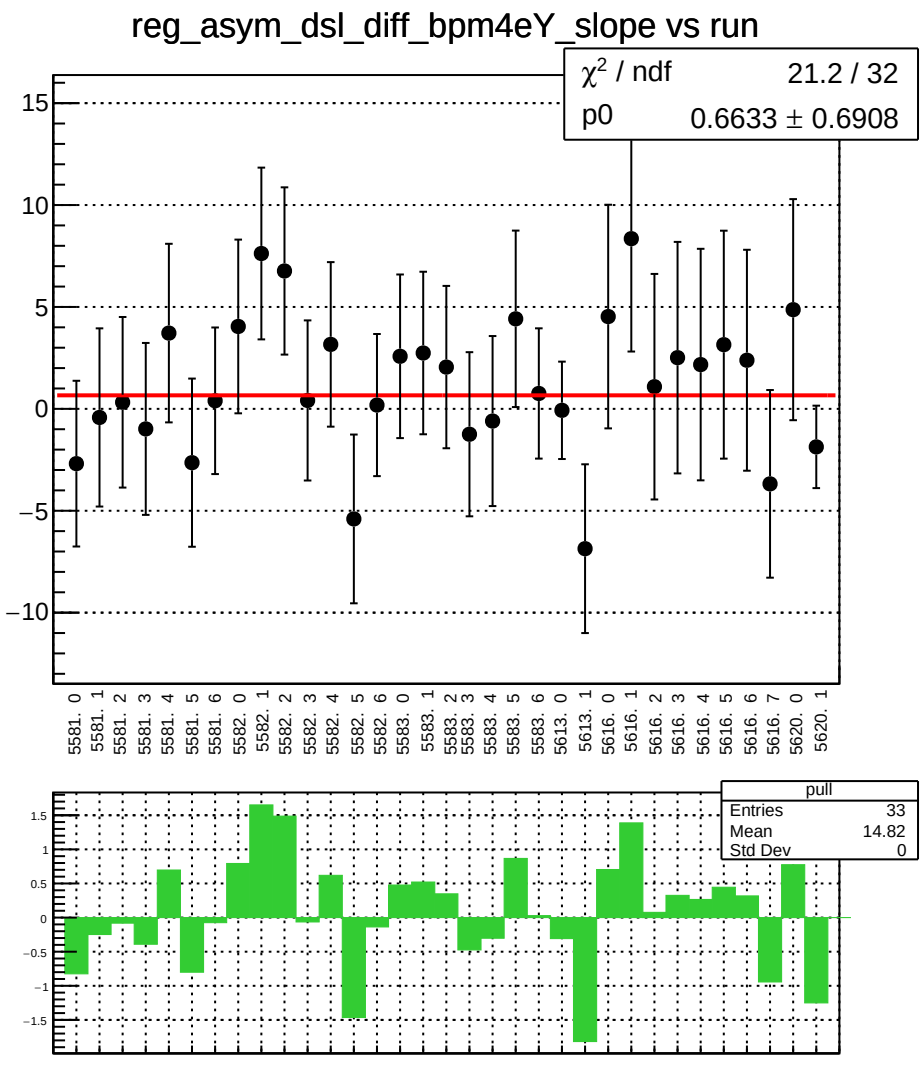

pull1D
Entries 33
Mean −0.004599
Std Dev 0.9061
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

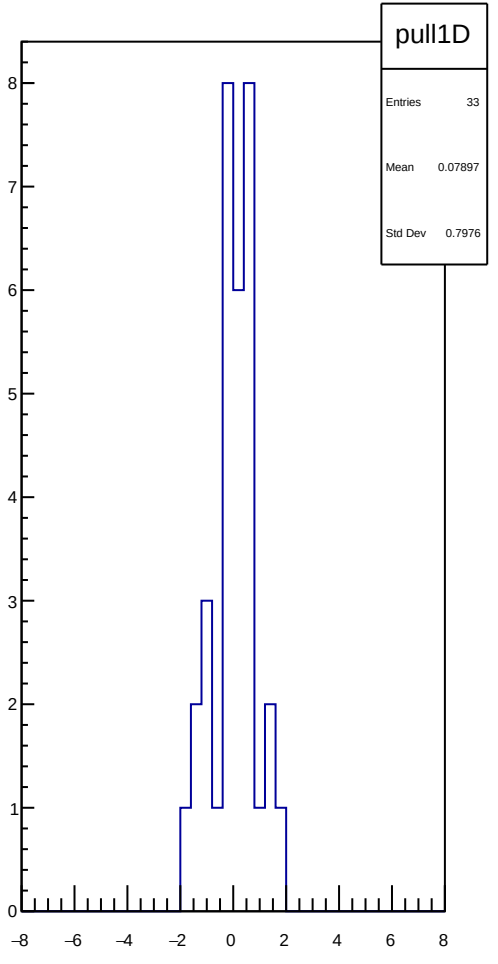

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 20.3 / 32
p0 −0.5057 ± 0.5252
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 14.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

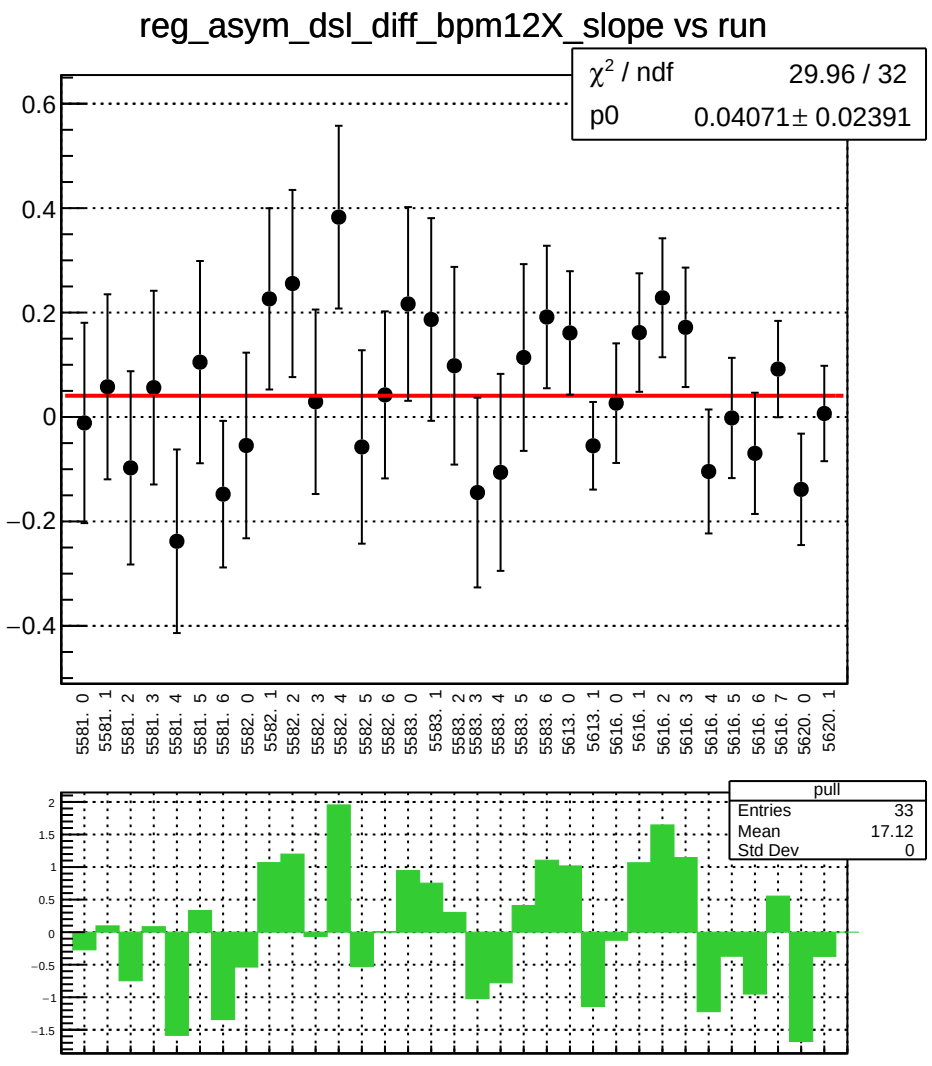

pull1D
Entries 33
Mean −0.07793
Std Dev 0.7804
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

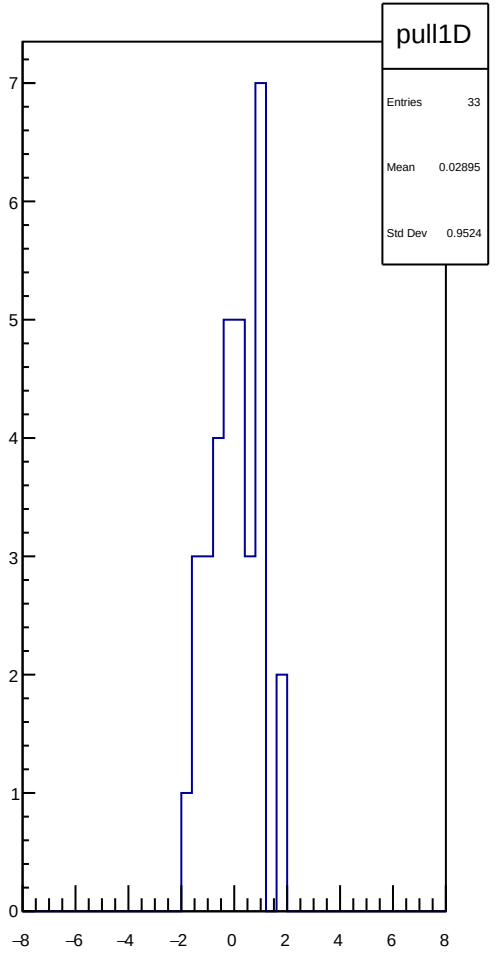

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 26.33 / 32
p0 −0.8359 ± 0.5198
pull
Entries 33
Mean 152.3
Std Dev 0

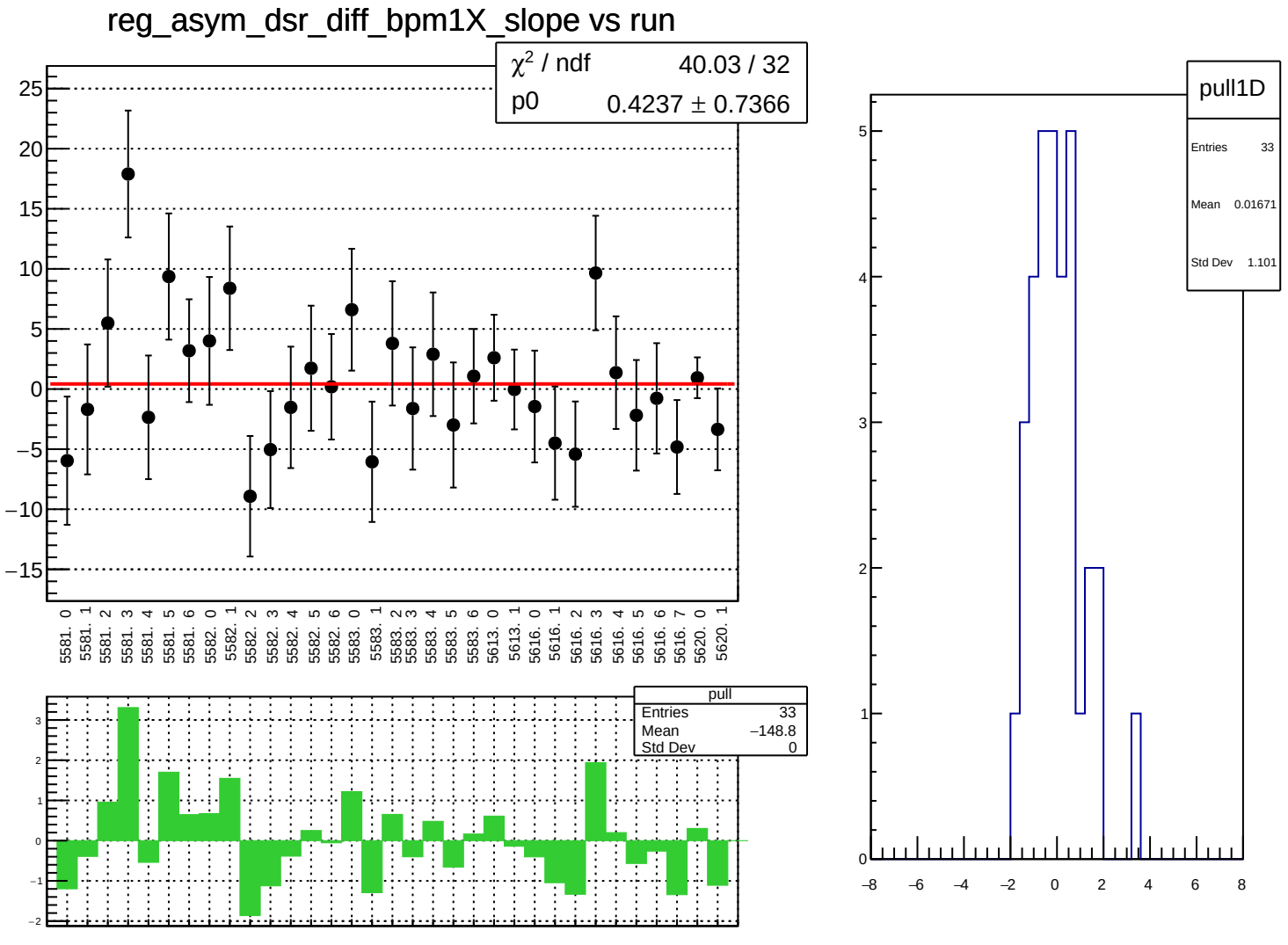

pull1D
Entries 33
Mean −0.01877
Std Dev 0.8931

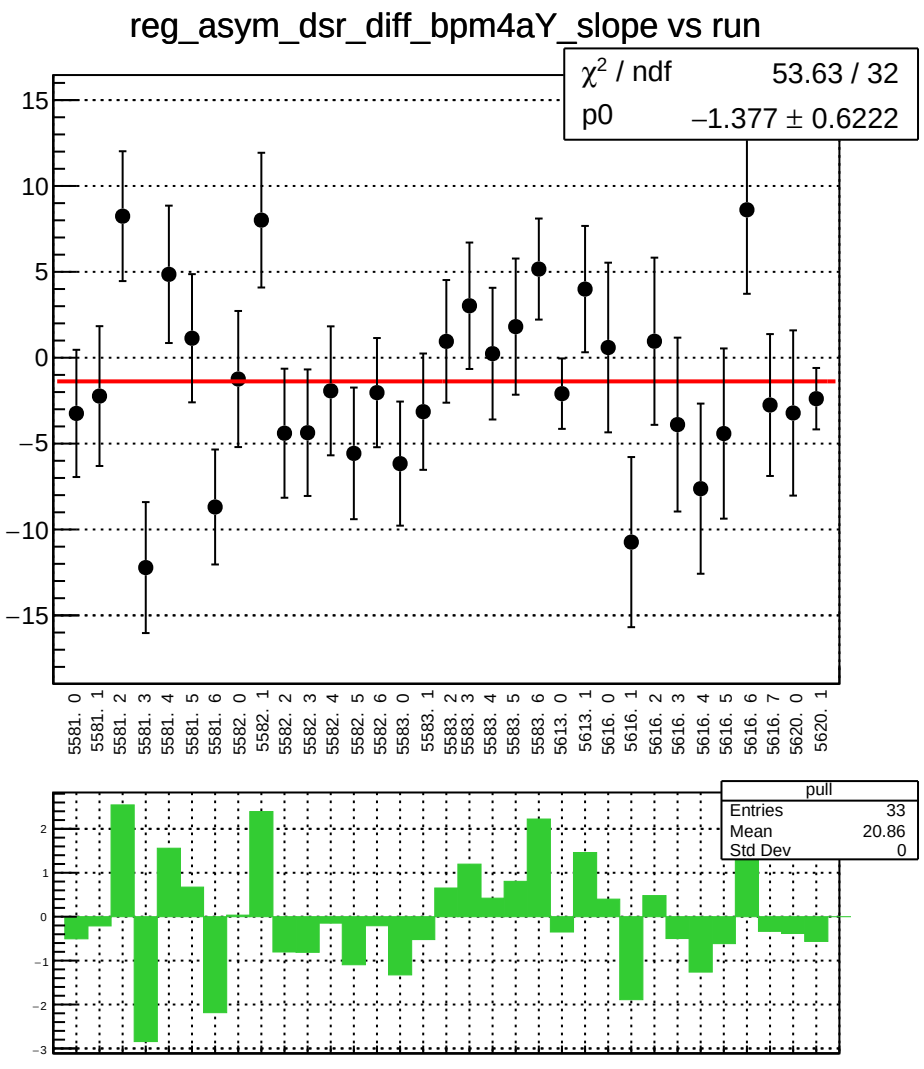

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 21.2 / 32
p0 0.6633 ± 0.6908
15
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 14.82
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

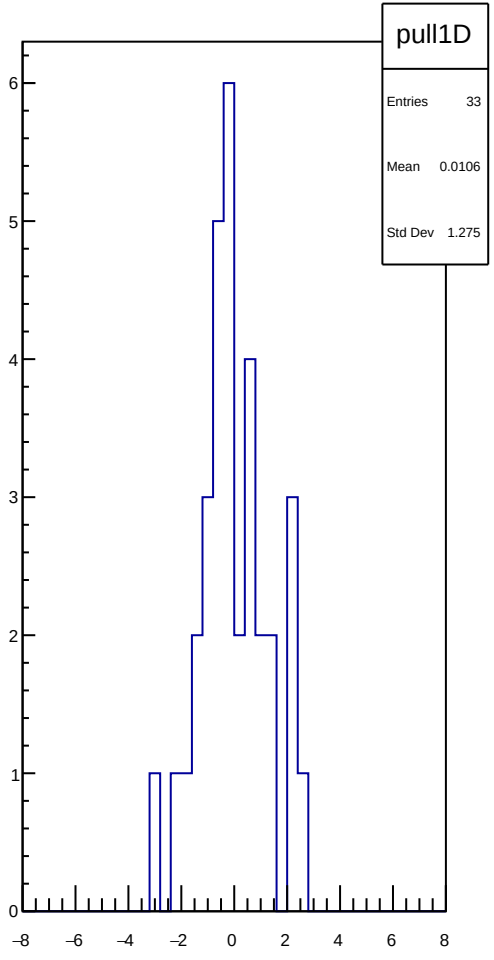

pull1D
Entries 33
Mean 0.07897
Std Dev 0.7976
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

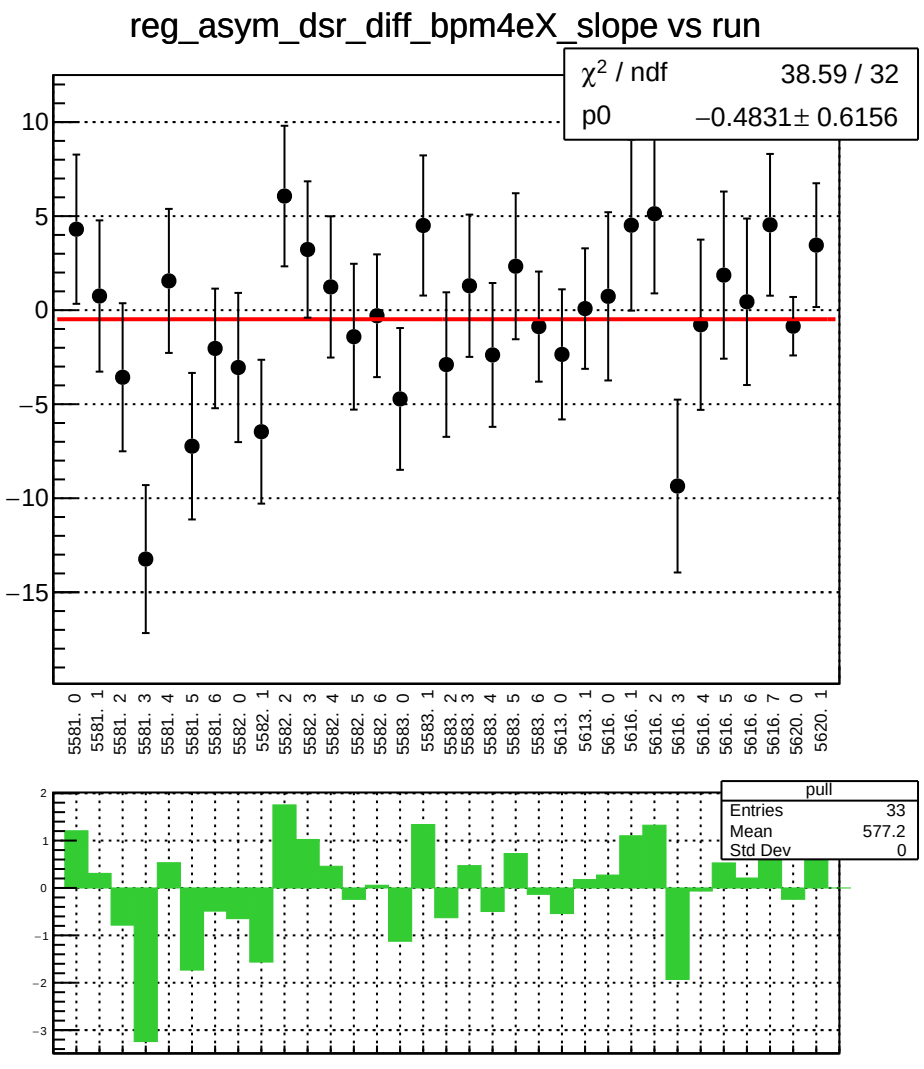

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 29.96 / 32
p0 0.04071± 0.02391
0.6
0.4
0.2
0
−0.2
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

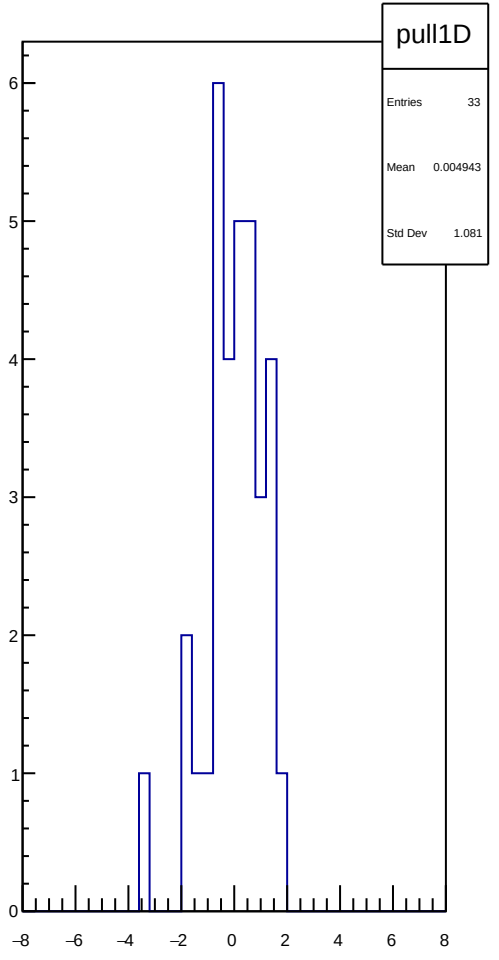

pull1D
Entries 33
Mean 0.02895
Std Dev 0.9524
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

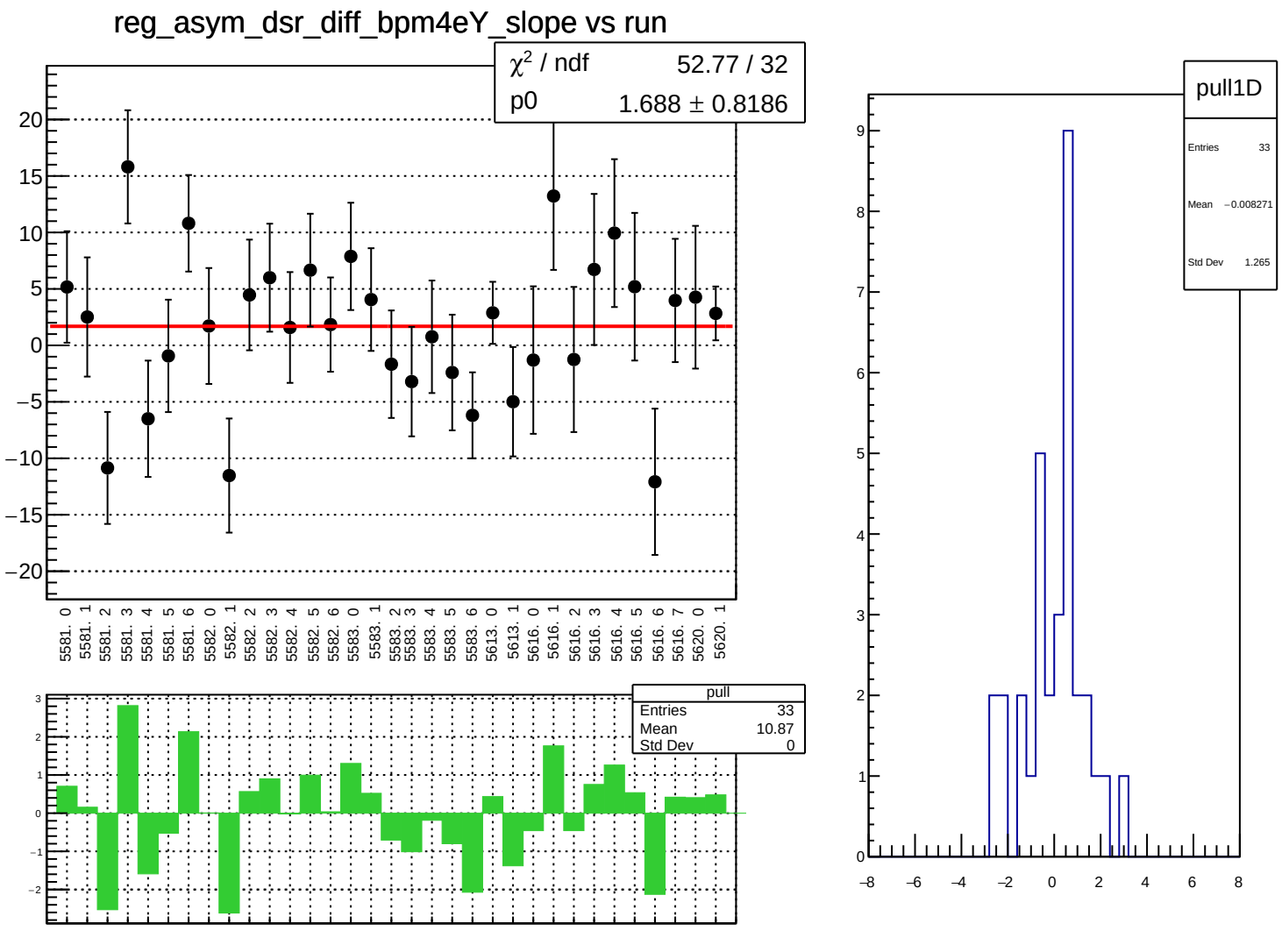

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 40.03 / 32
p0 0.4237 ± 0.7366
pull
Entries 33
Mean −148.8
Std Dev 0
pull1D
Entries 33
Mean 0.01671
Std Dev 1.101

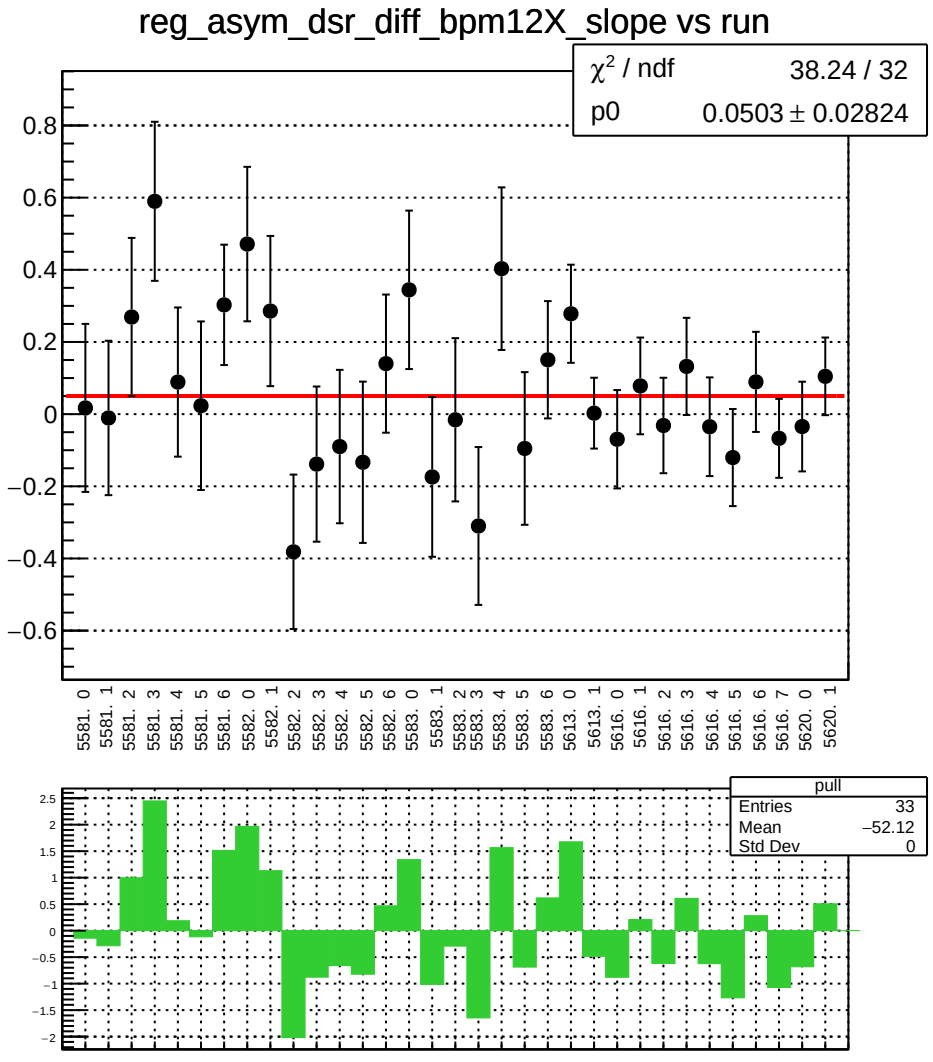

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 53.63 / 32
p0 −1.377 ± 0.6222
15
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.86
Std Dev 0
2
1
0
−1
−2
−3

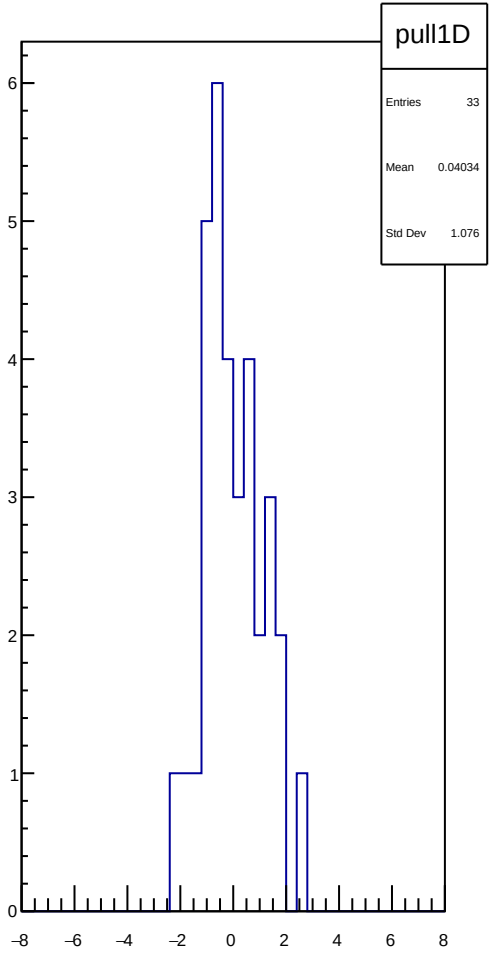

pull1D
Entries 33
Mean 0.0106
Std Dev 1.275
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

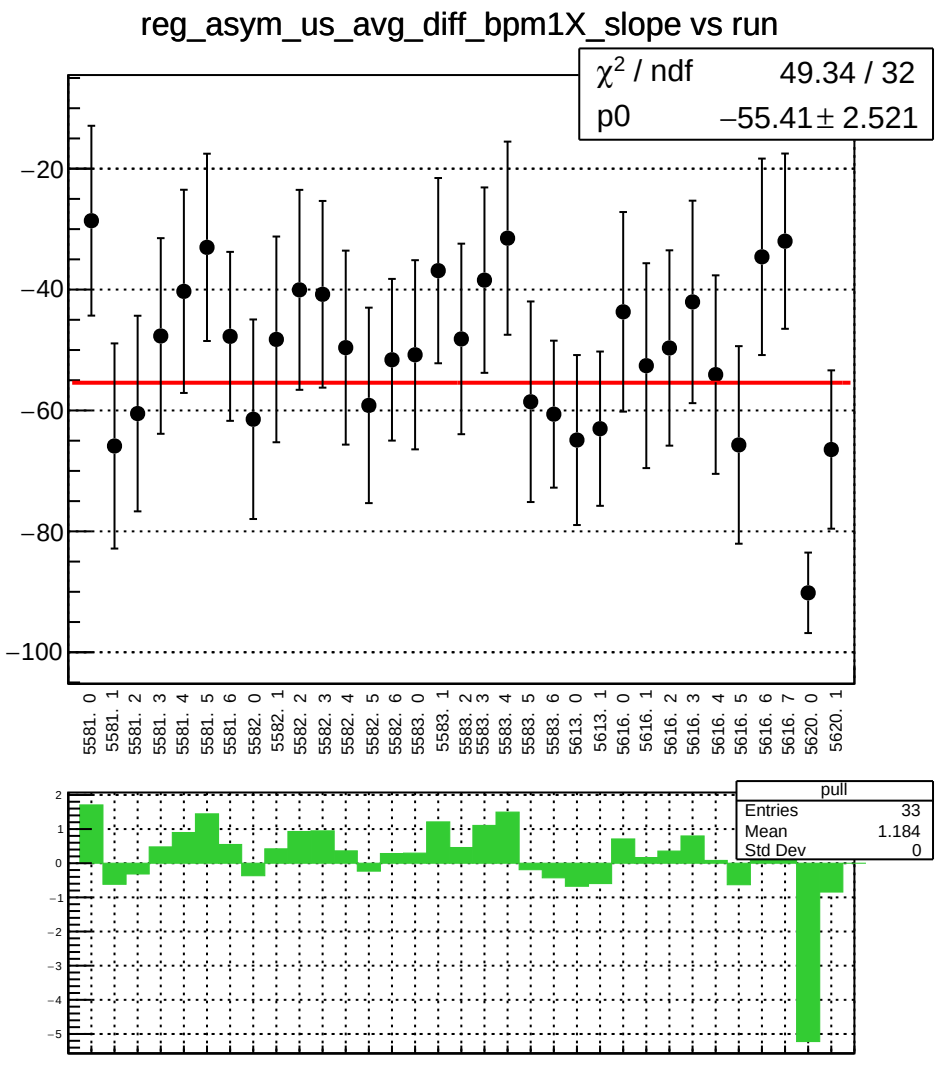

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 38.59 / 32
p0 −0.4831± 0.6156
10
5
0
−5
−10
−15
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 577.2
Std Dev 0
2
1
0
−1
−2
−3

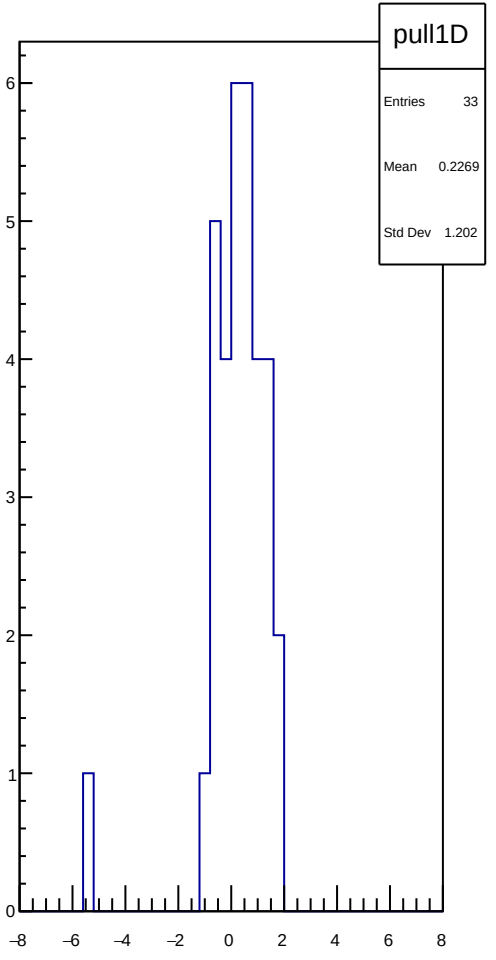

pull1D
Entries 33
Mean 0.004943
Std Dev 1.081
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

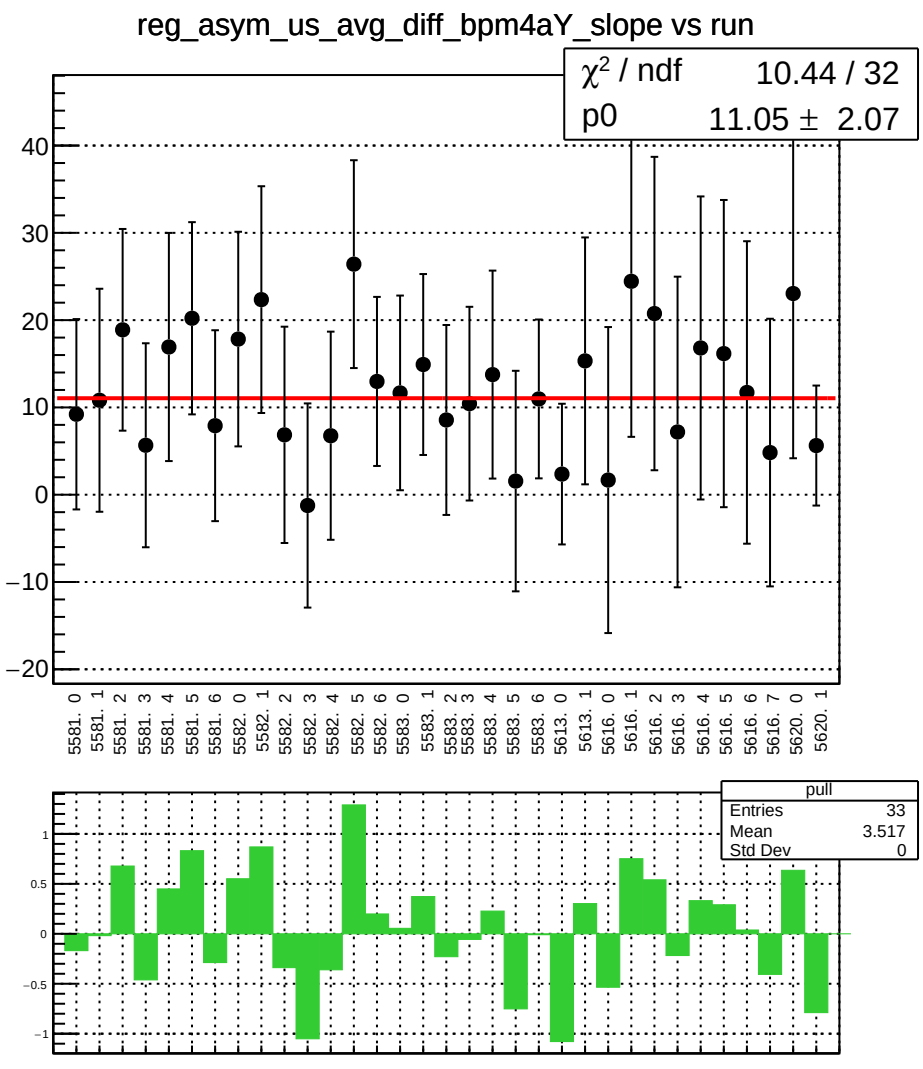

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 52.77 / 32
p0 1.688 ± 0.8186
20
15
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 10.87
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.008271
Std Dev 1.265
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

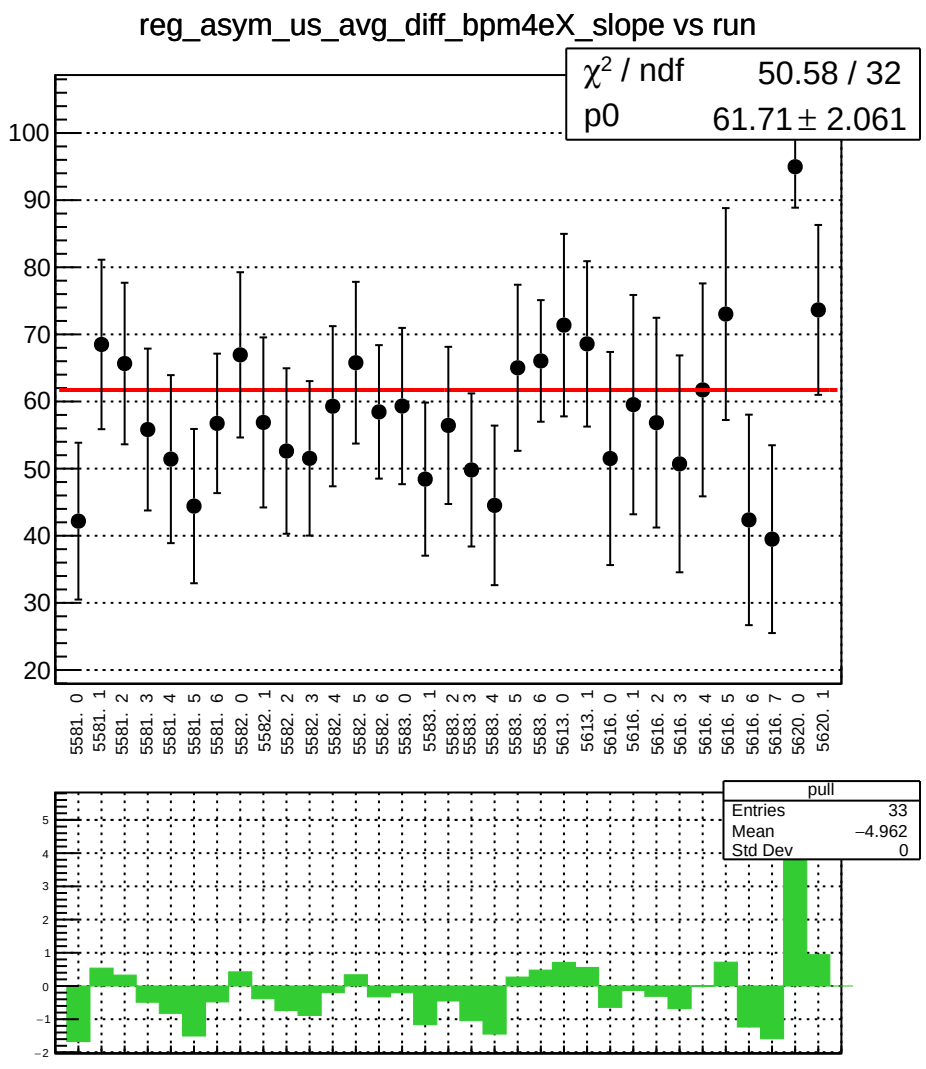

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 38.24 / 32
p0 0.0503 ± 0.02824
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −52.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

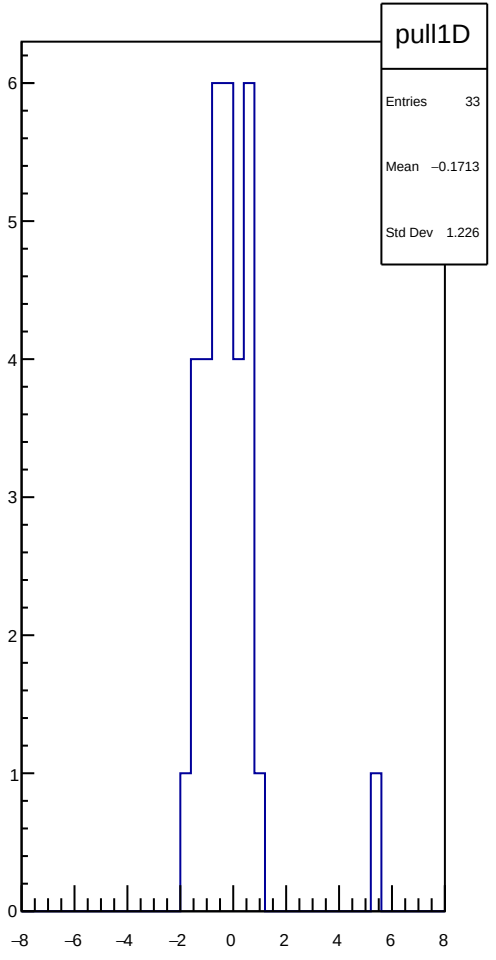

pull1D
Entries 33
Mean 0.04034
Std Dev 1.076
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

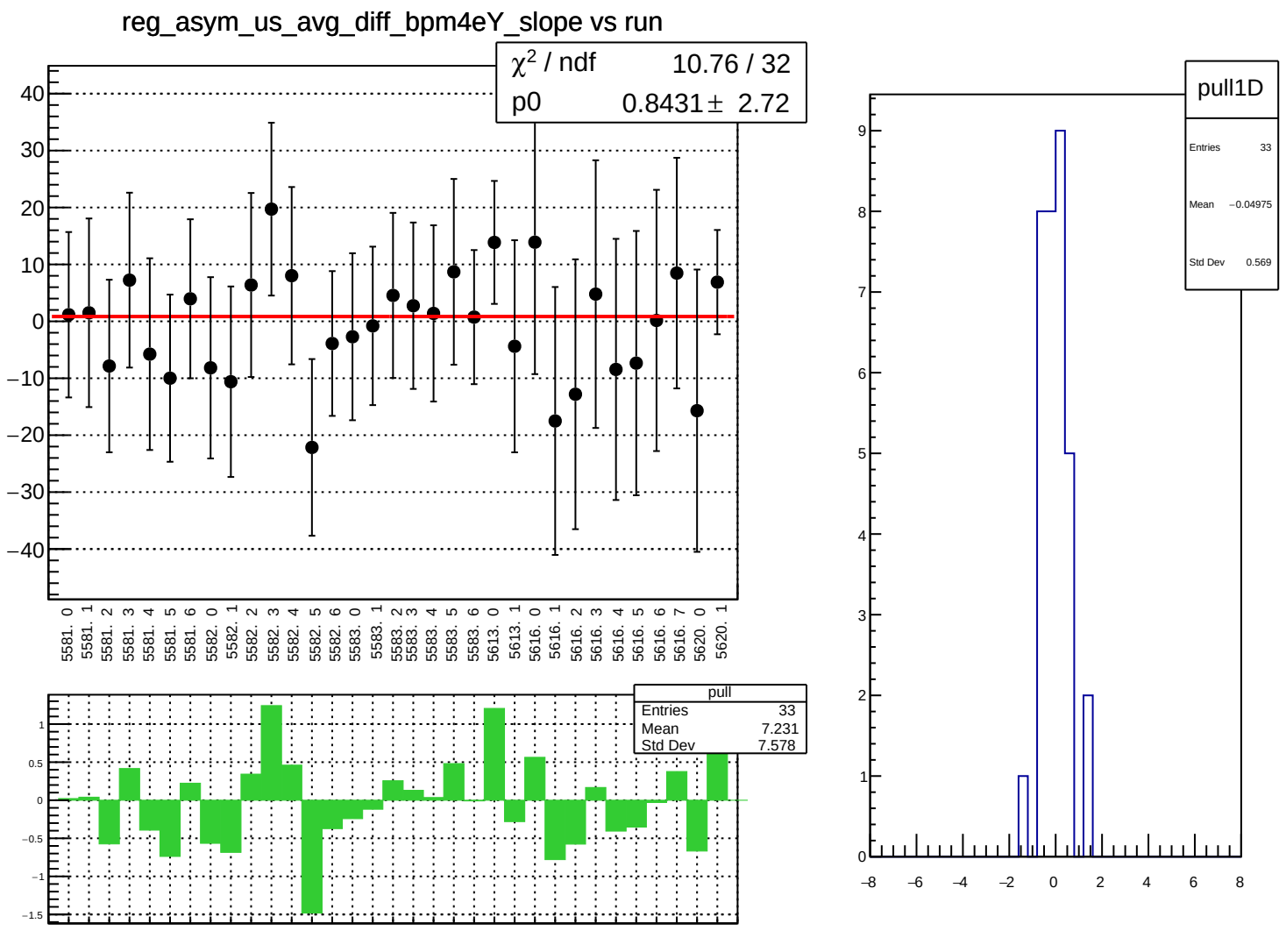

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 49.34 / 32
p0 −55.41 ± 2.521
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 1.184
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

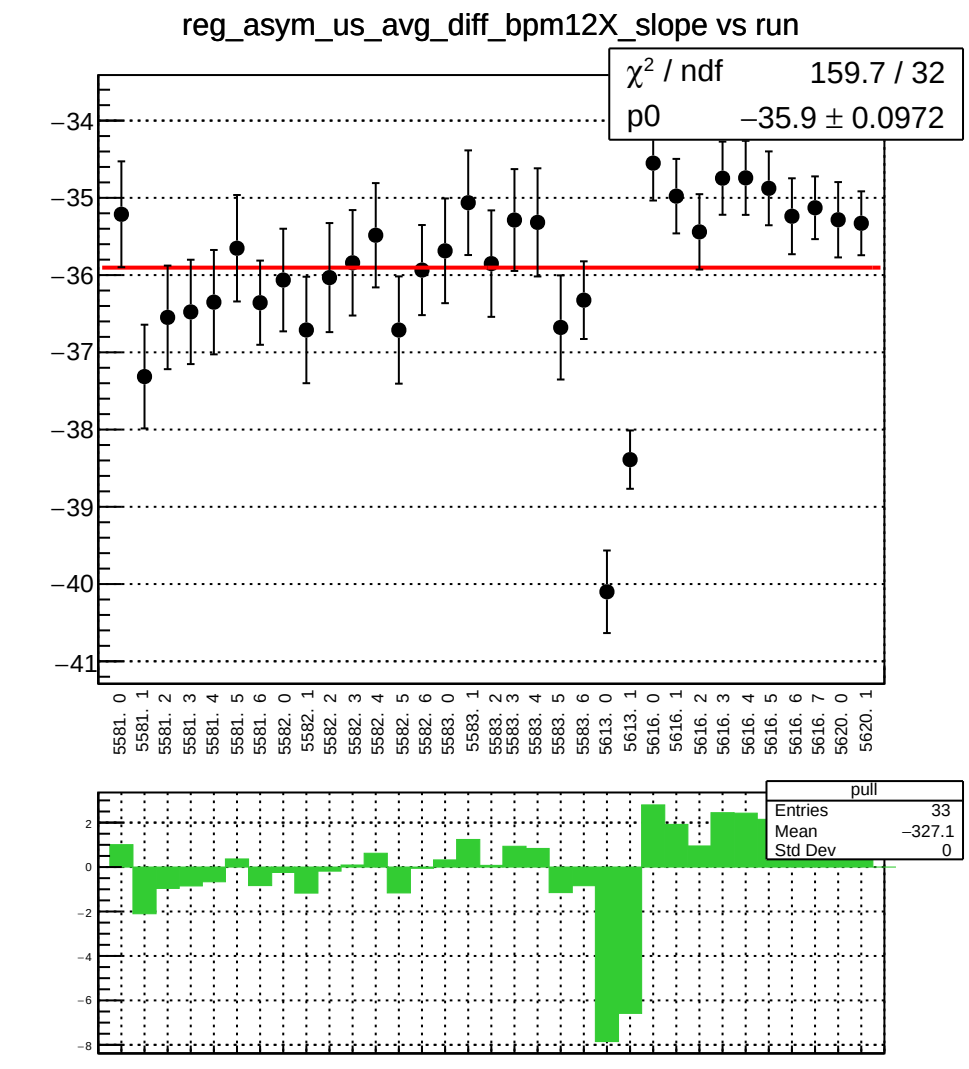

pull1D
Entries 33
Mean 0.2269
Std Dev 1.202
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

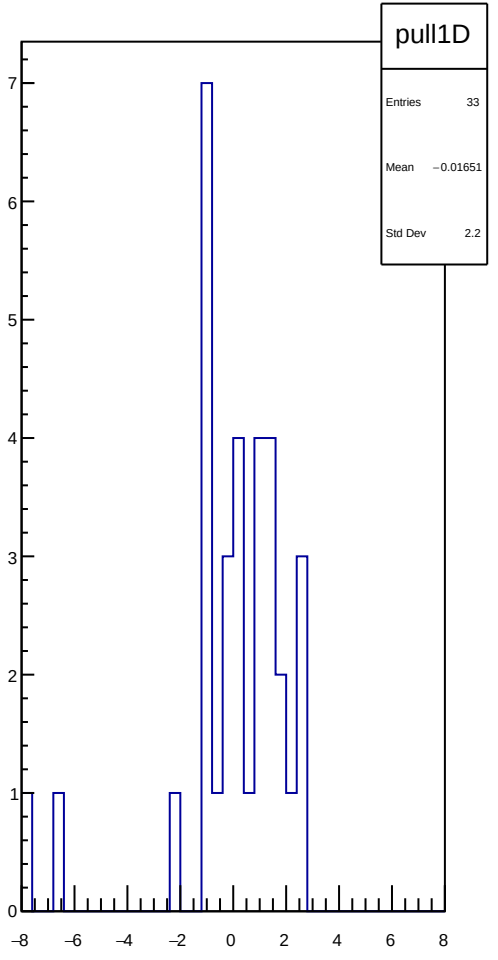

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.44 / 32
p0 11.05 ± 2.07
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 3.517
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.05025
Std Dev 0.5601
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

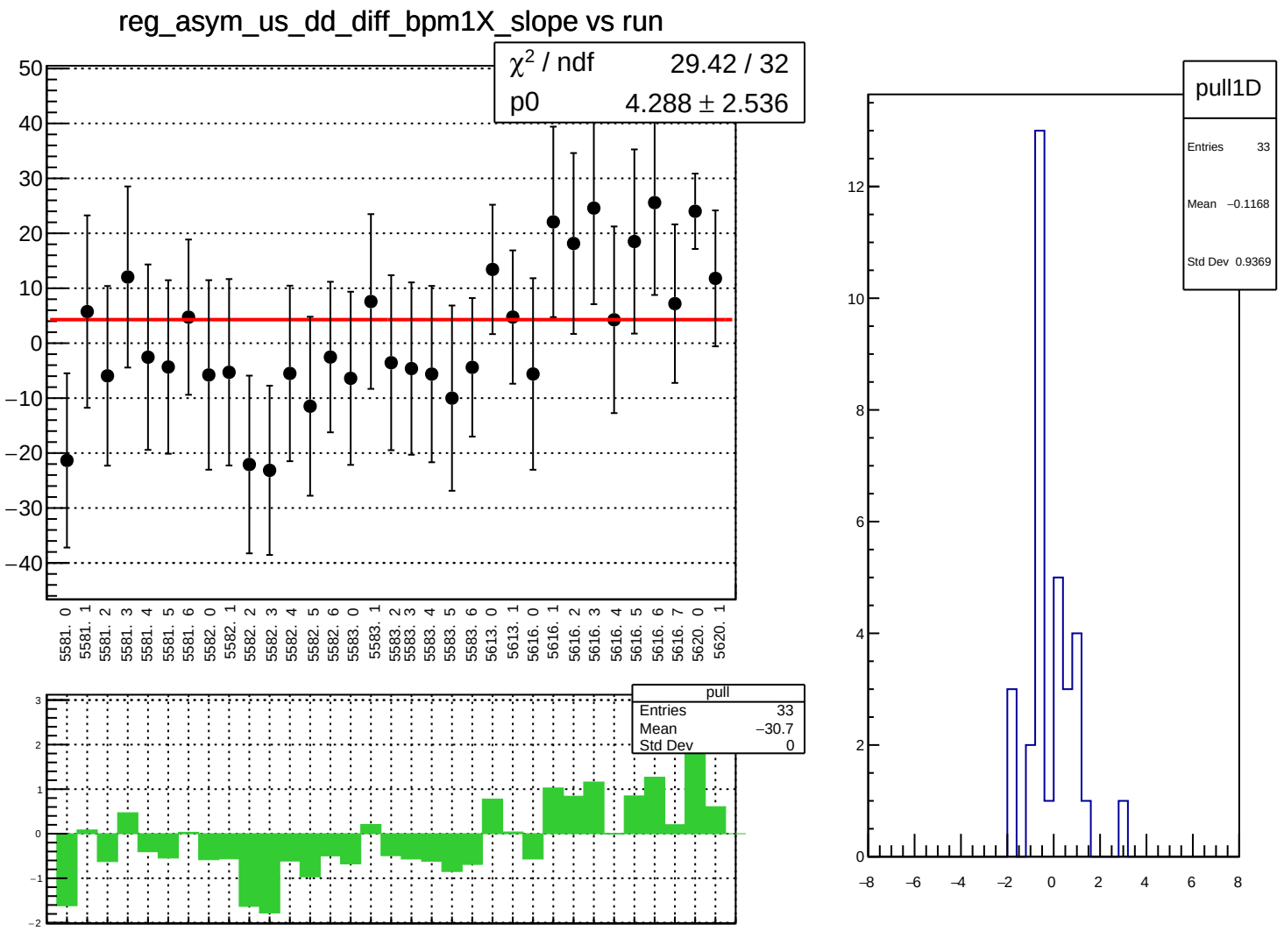

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.58 / 32
p0 61.71 ± 2.061
100
90
80
70
60
50
40
30
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −4.962
Std Dev 0
5
4
3
2
1
0
−1
−2

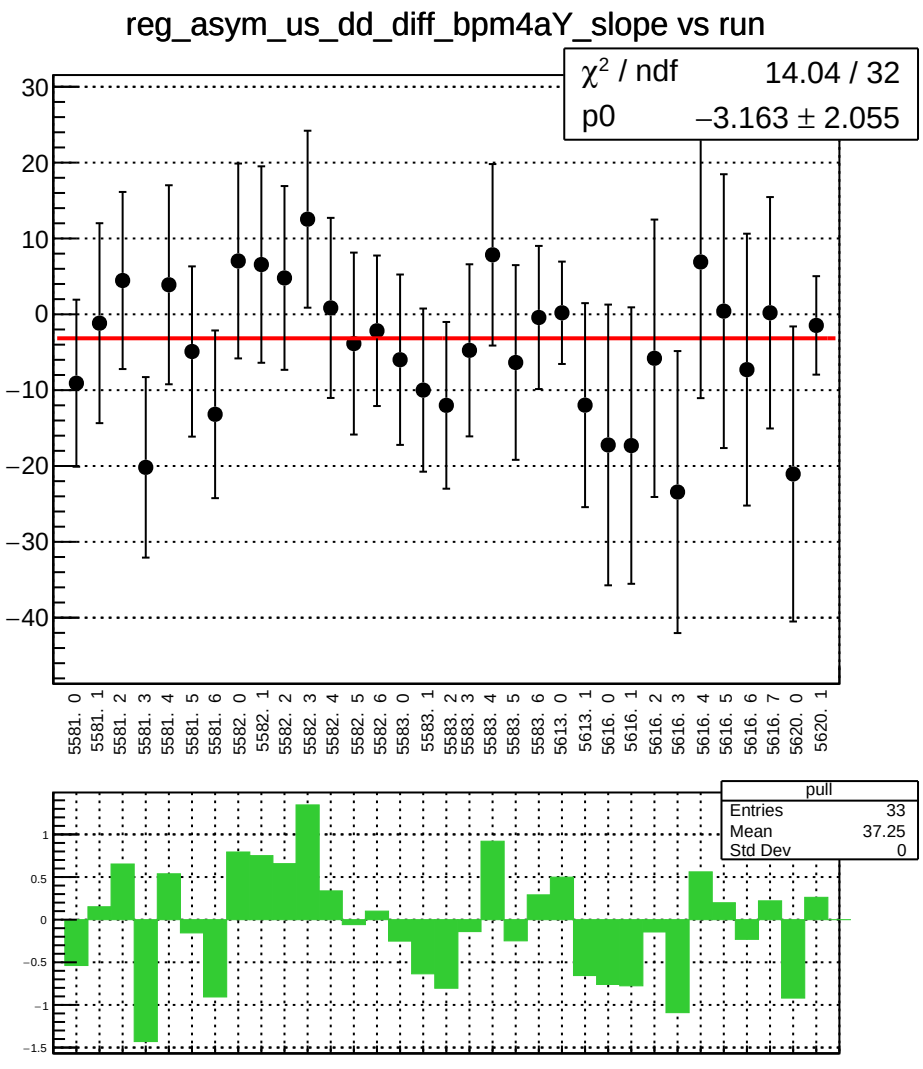

pull1D
Entries 33
Mean −0.1713
Std Dev 1.226
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

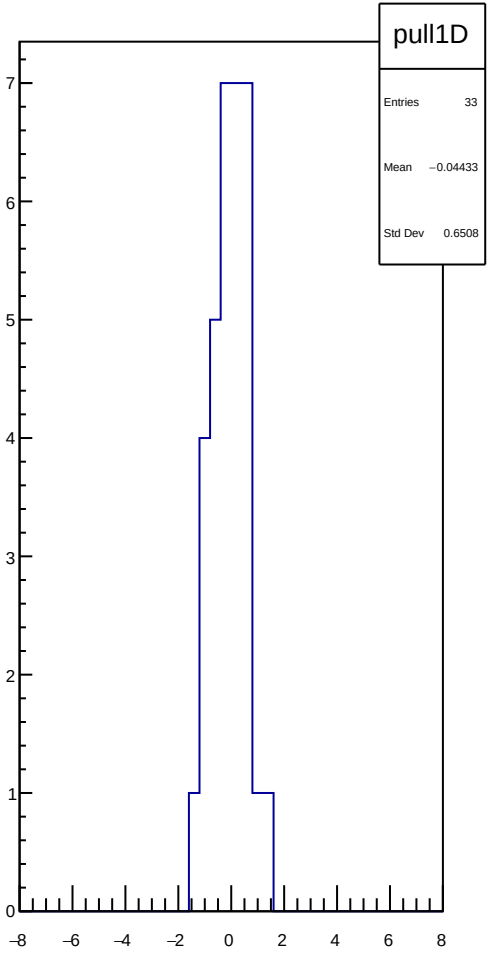

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.76 / 32
p0 0.8431 ± 2.72
40
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 7.231
Std Dev 7.578
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.04975
Std Dev 0.569
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

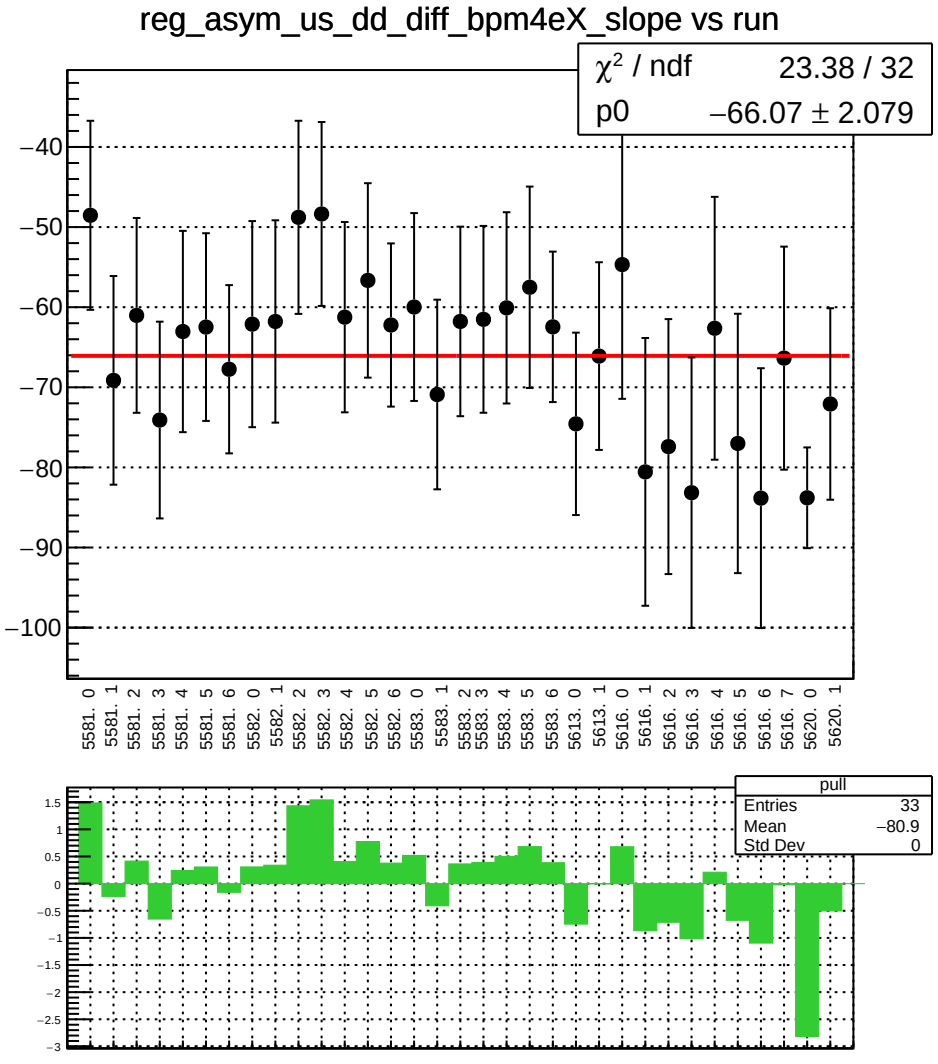

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 159.7 / 32
p0 −35.9 ± 0.0972
−34
−35
−36
−37
−38
−39
−40
−41
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −327.1
Std Dev 0
2
0
−2
−4
−6
−8

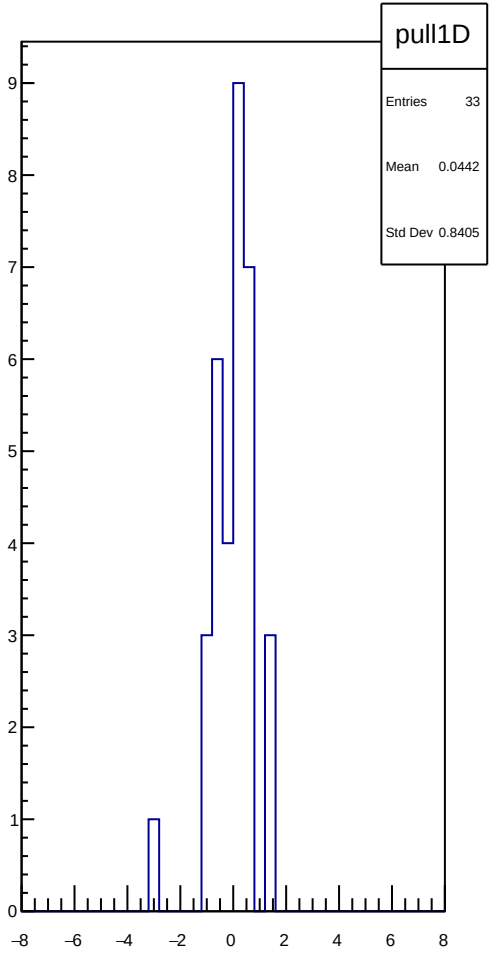

pull1D
Entries 33
Mean −0.01651
Std Dev 2.2
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

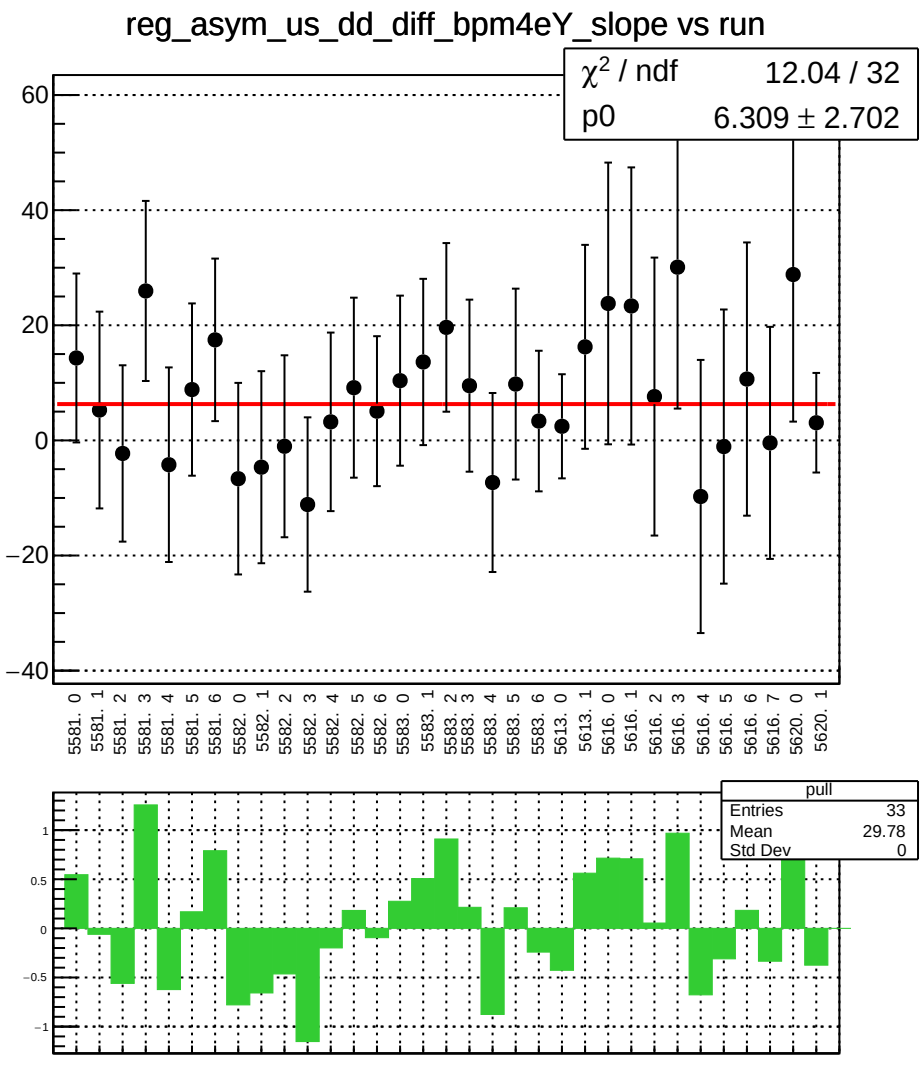

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 29.42 / 32
p0 4.288 ± 2.536
50
40
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −30.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.1168
Std Dev 0.9369
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

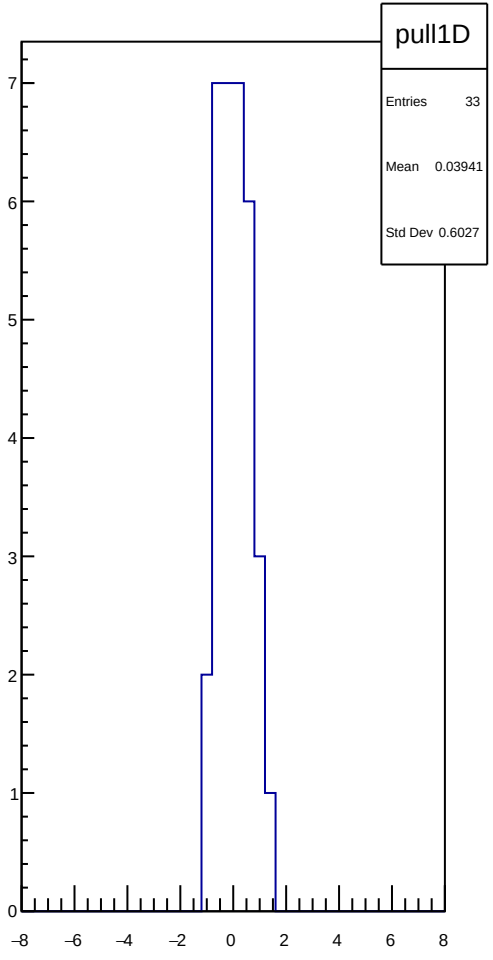

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.04 / 32
p0 −3.163 ± 2.055
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.25
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

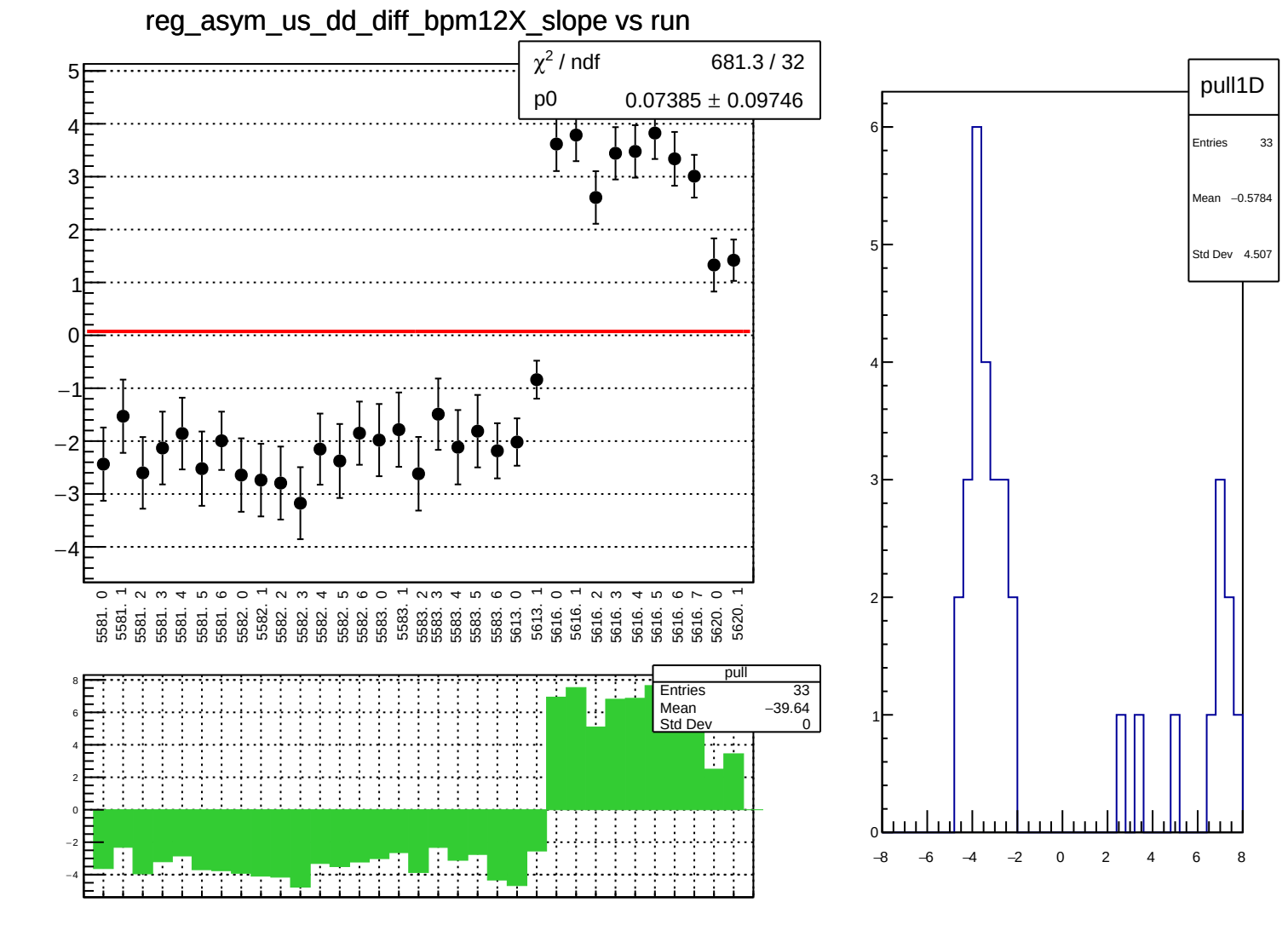

pull1D
Entries 33
Mean −0.04433
Std Dev 0.6508
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

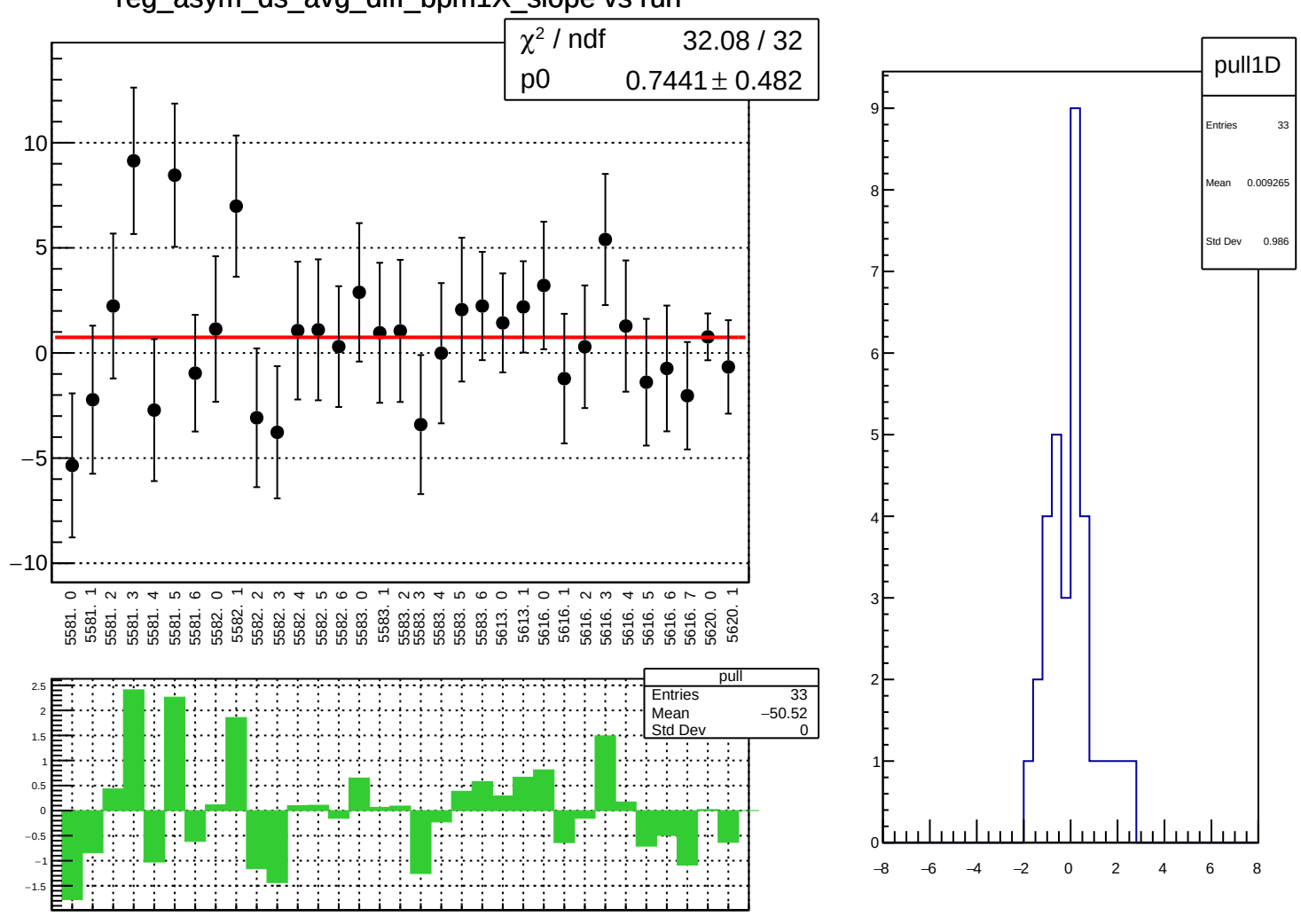

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.38 / 32
p0 −66.07 ± 2.079
−40
−50
−60
−70
−80
−90
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −80.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

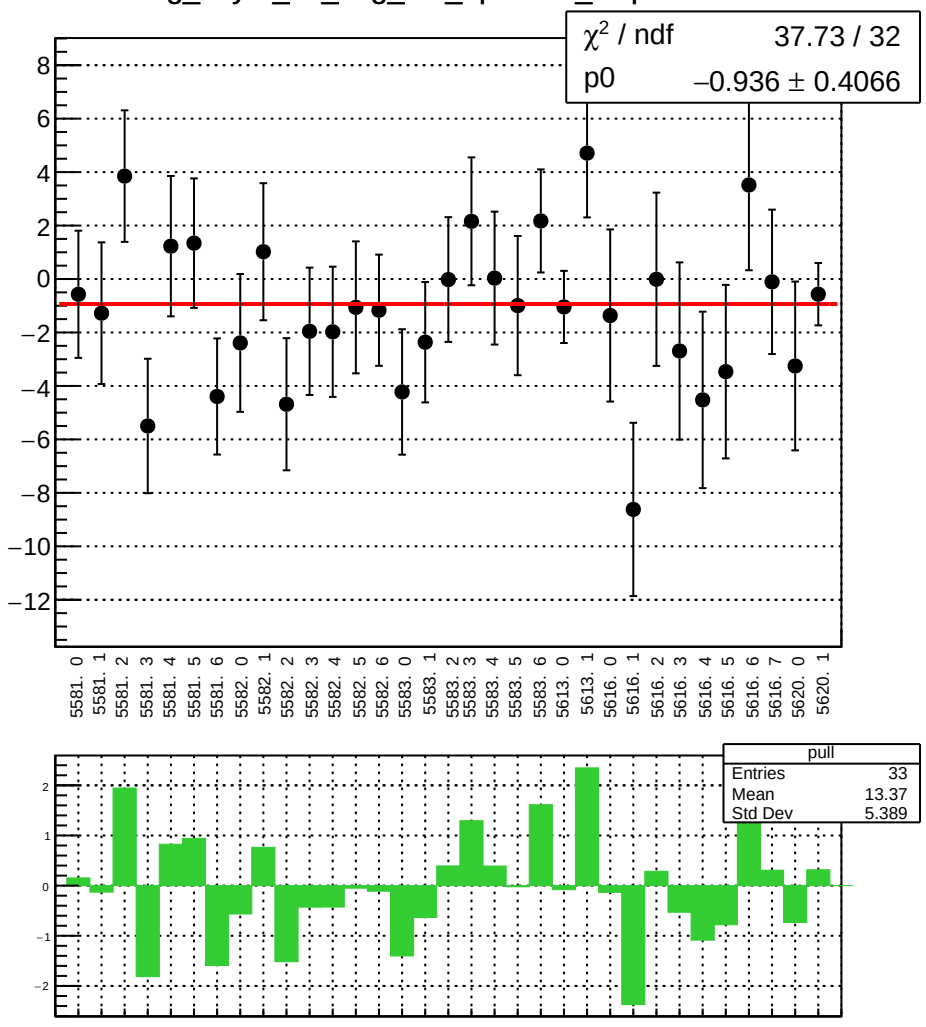

pull1D
Entries 33
Mean 0.0442
Std Dev 0.8405
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

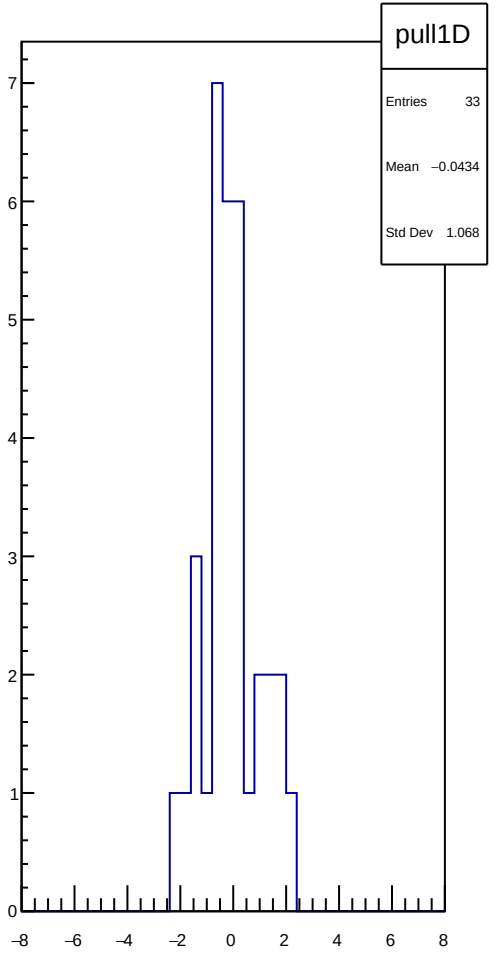

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.04 / 32
p0 6.309 ± 2.702
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.78
Std Dev 0
1
0.5
0
−0.5
−1

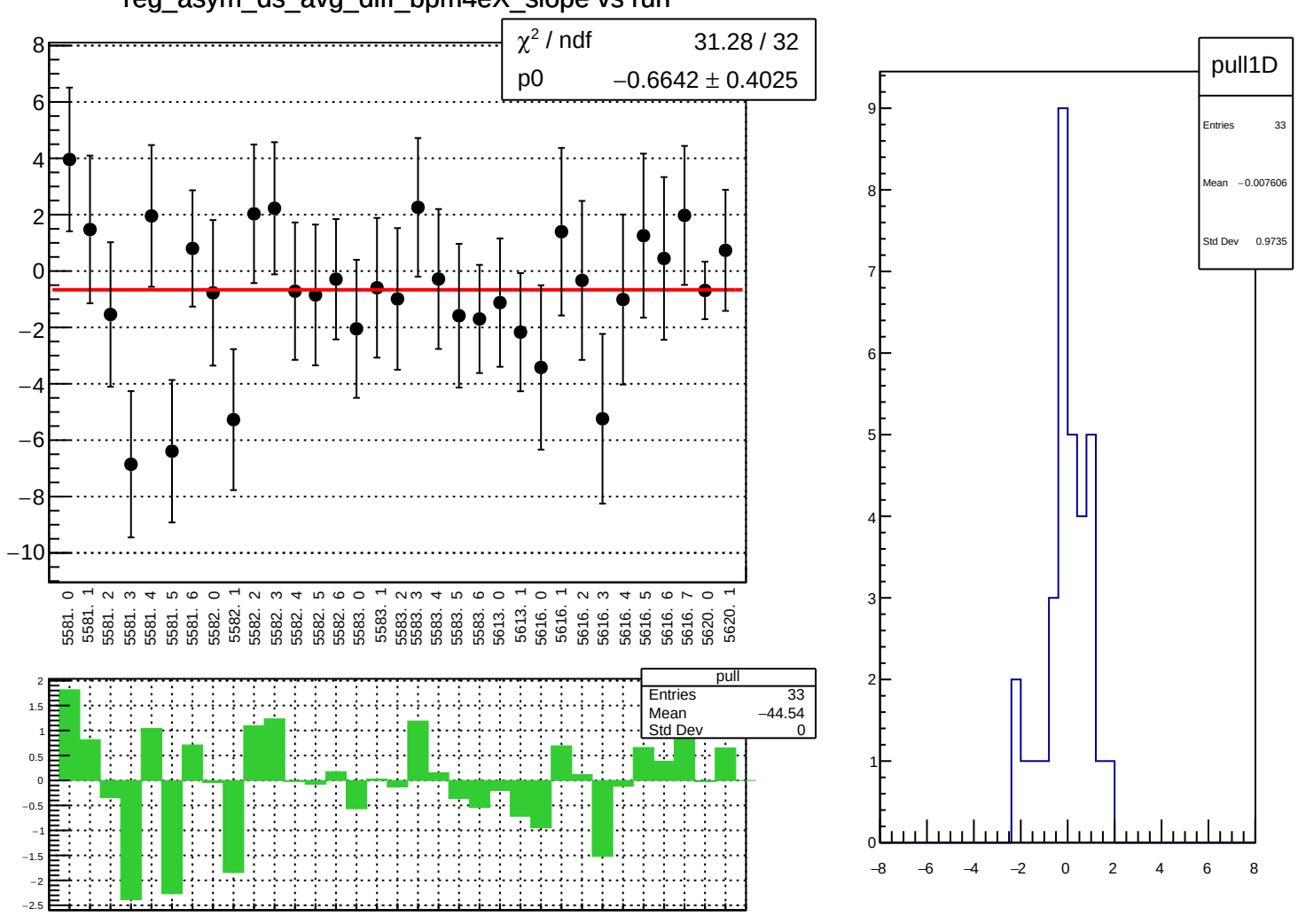

pull1D
Entries 33
Mean 0.03941
Std Dev 0.6027
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

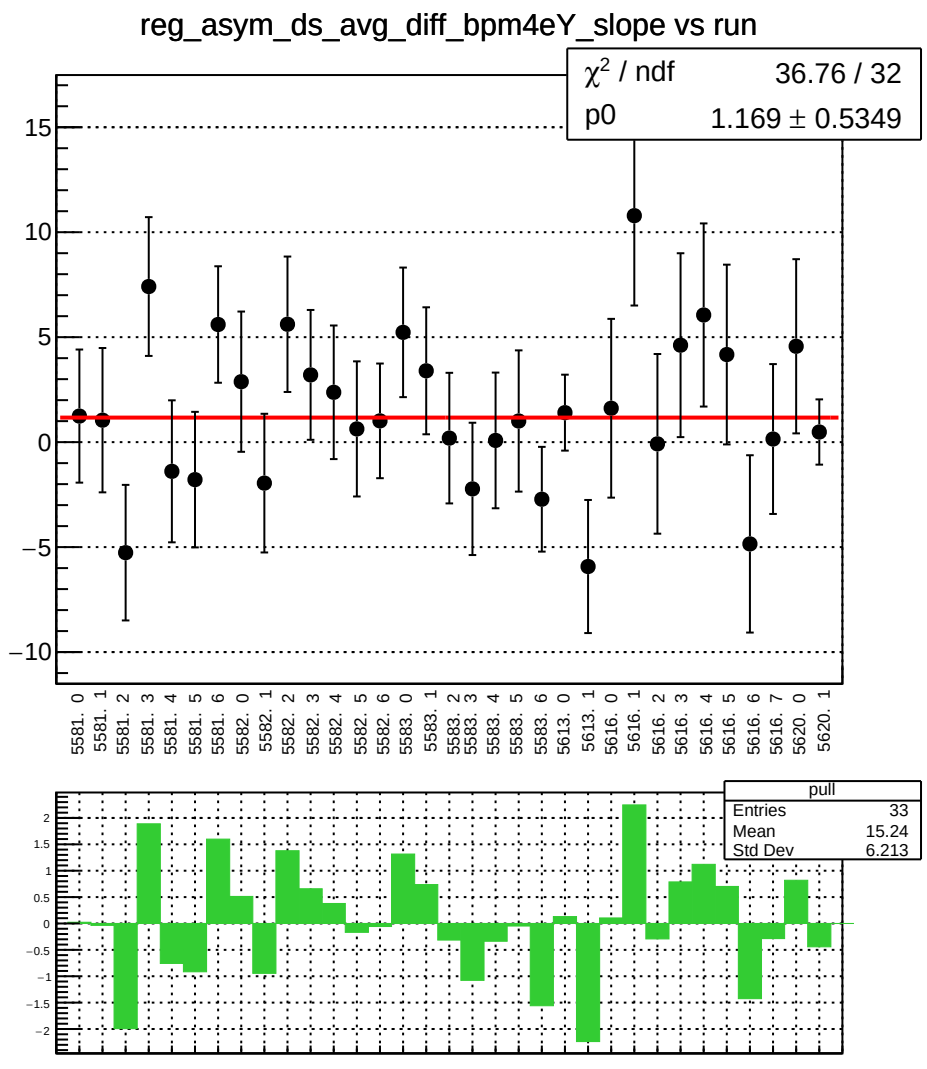

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 681.3 / 32
p0 0.07385 ± 0.09746
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −39.64
Std Dev 0
pull1D
Entries 33
Mean −0.5784
Std Dev 4.507

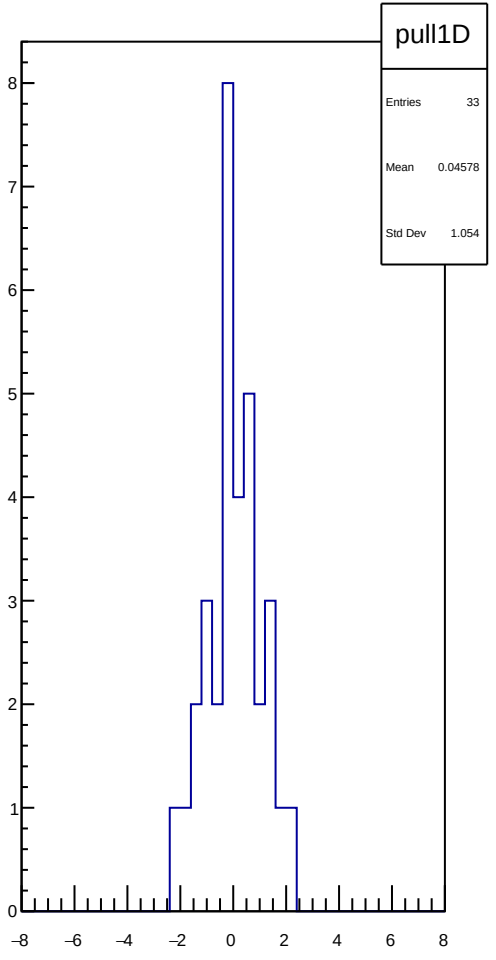

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 32.08 / 32
p0 0.7441 ± 0.482
pull
Entries 33
Mean −50.52
Std Dev 0
pull1D
Entries 33
Mean 0.009265
Std Dev 0.986

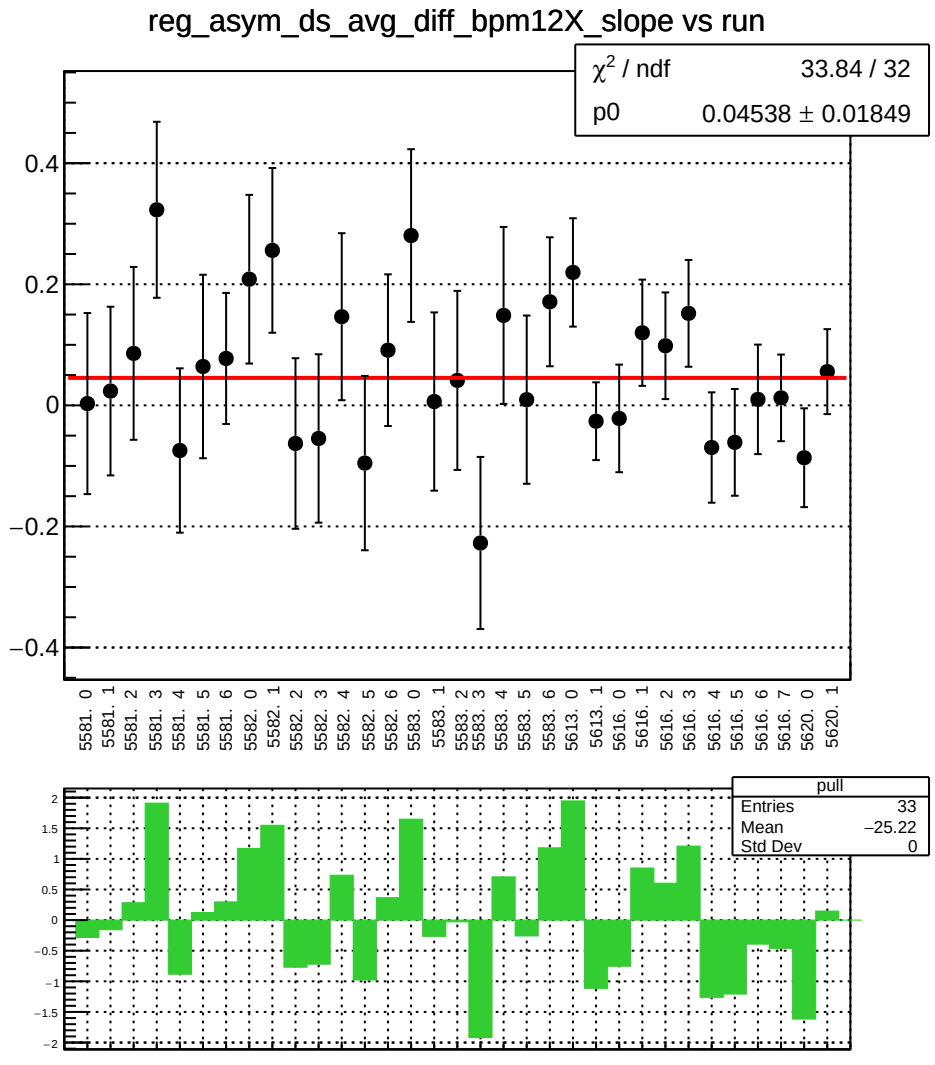

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.73 / 32
p0 −0.936 ± 0.4066
pull
Entries 33
Mean 13.37
Std Dev 5.389

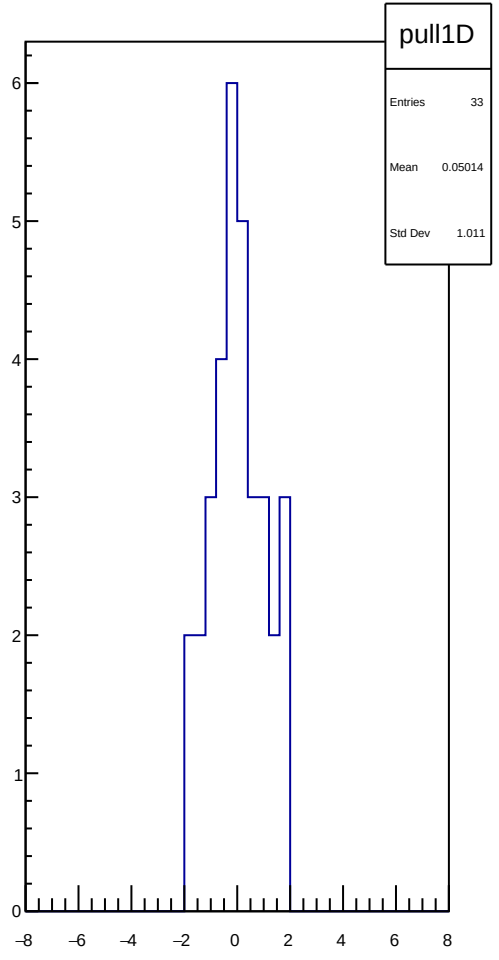

pull1D
Entries 33
Mean −0.0434
Std Dev 1.068

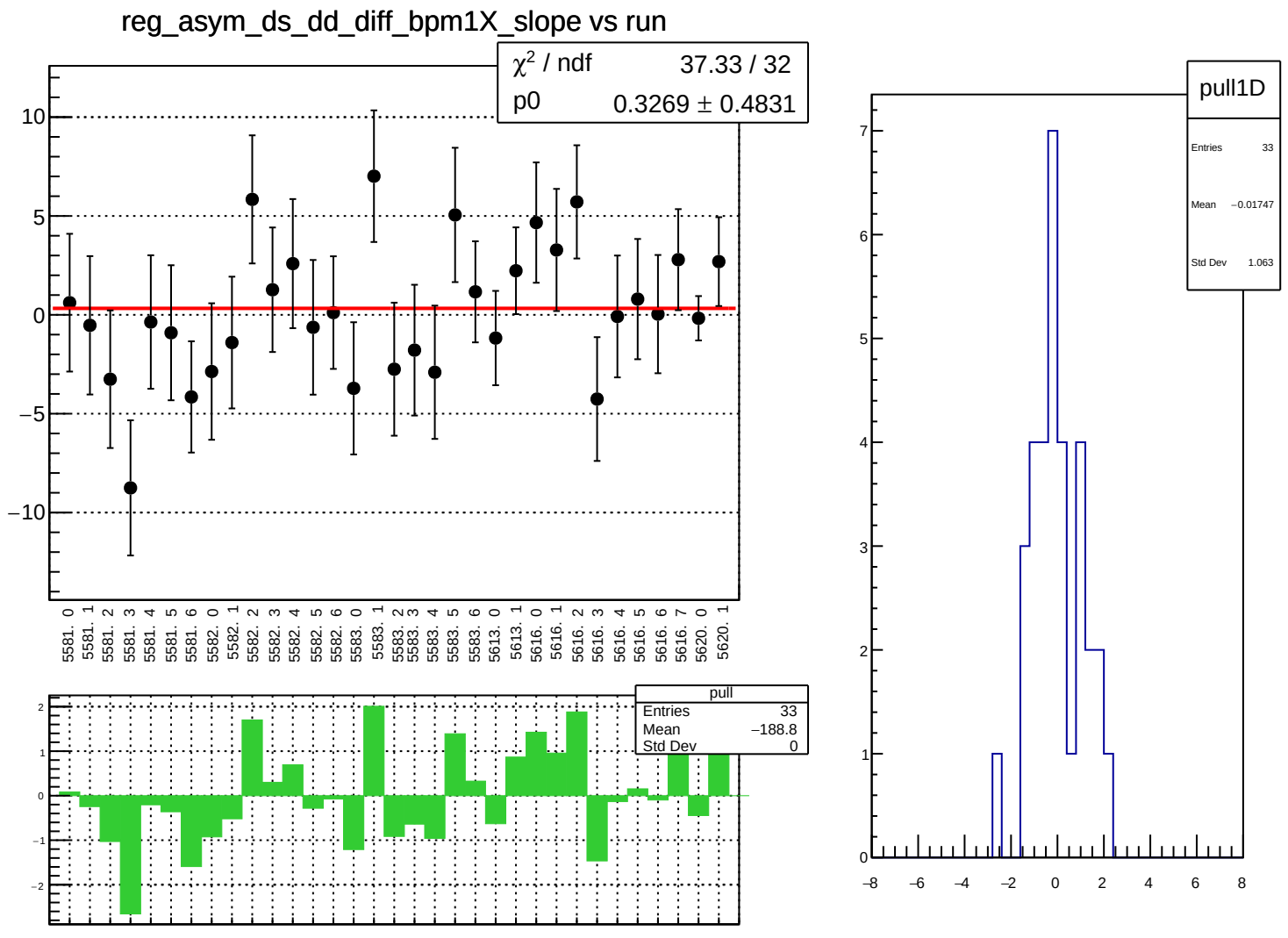

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.28 / 32
p0 −0.6642 ± 0.4025
8
6
4
2
0
−2
−4
−6
−8
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −44.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.007606
Std Dev 0.9735
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

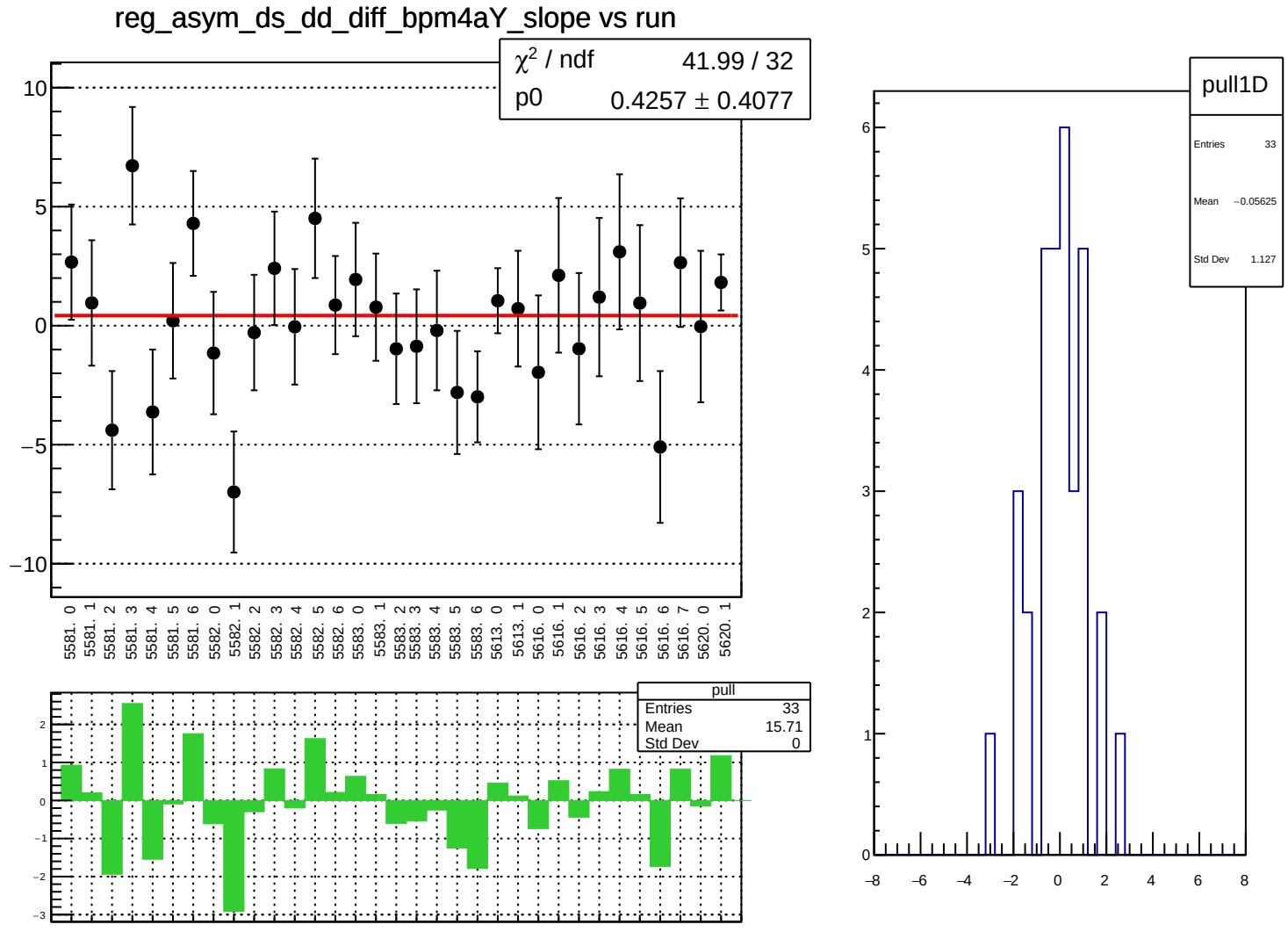

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.76 / 32
p0 1.169 ± 0.5349
15
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 15.24
Std Dev 6.213
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

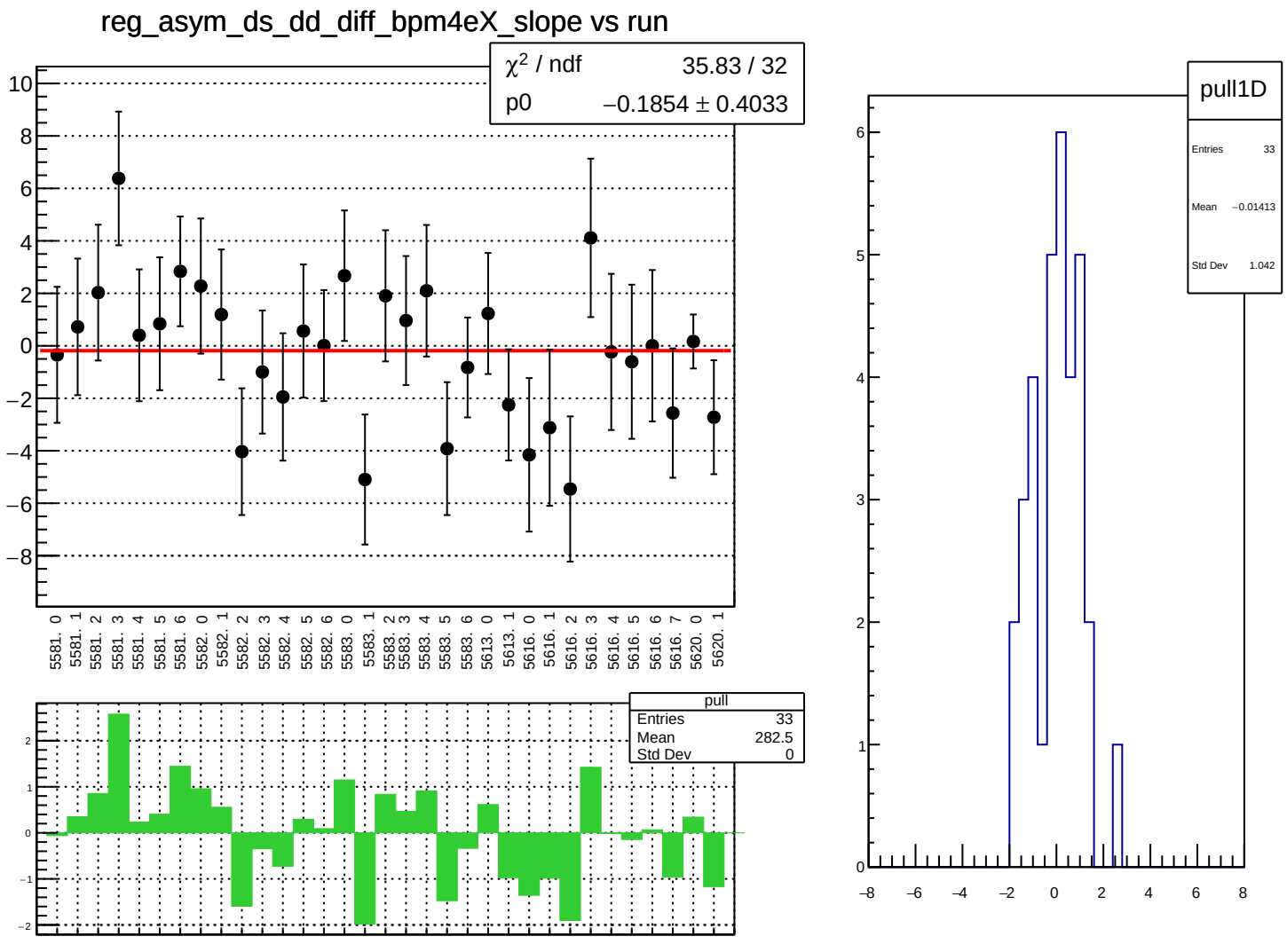

pull1D
Entries 33
Mean 0.04578
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

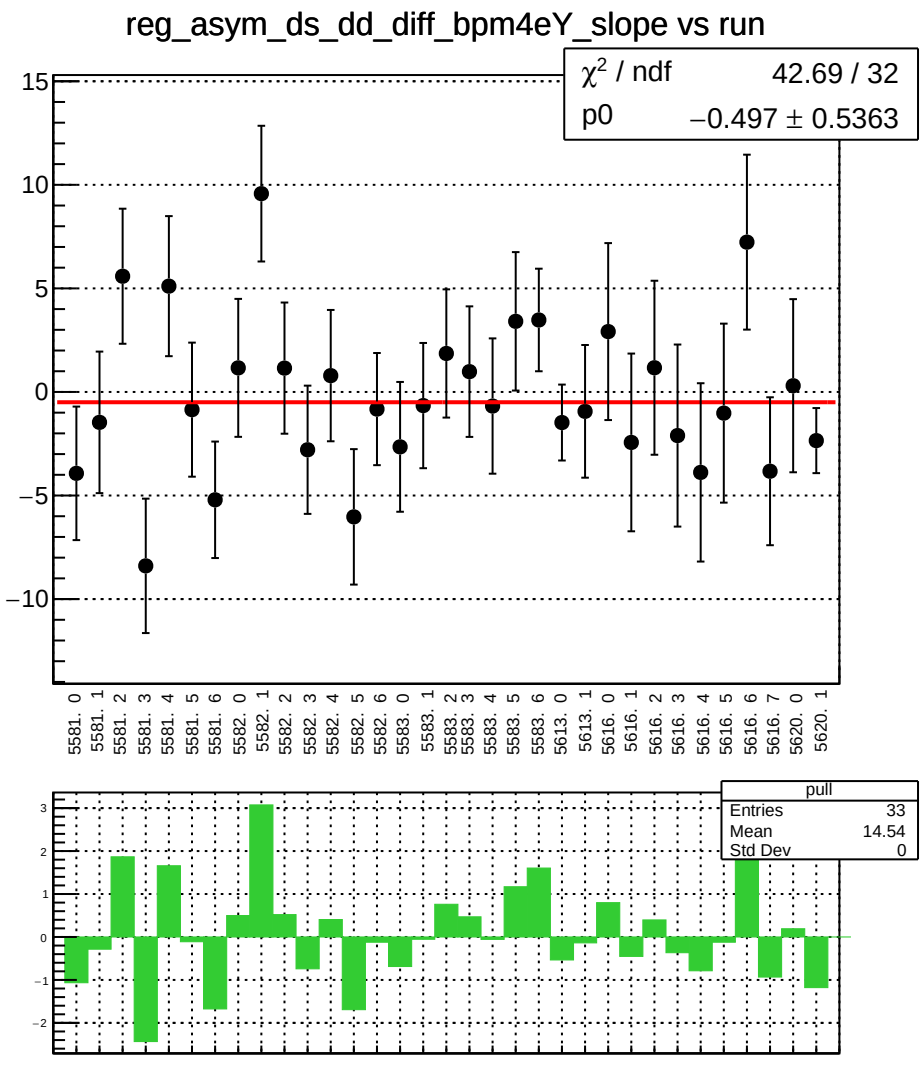

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 33.84 / 32
p0 0.04538 ± 0.01849
0.4
0.2
0
−0.2
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −25.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

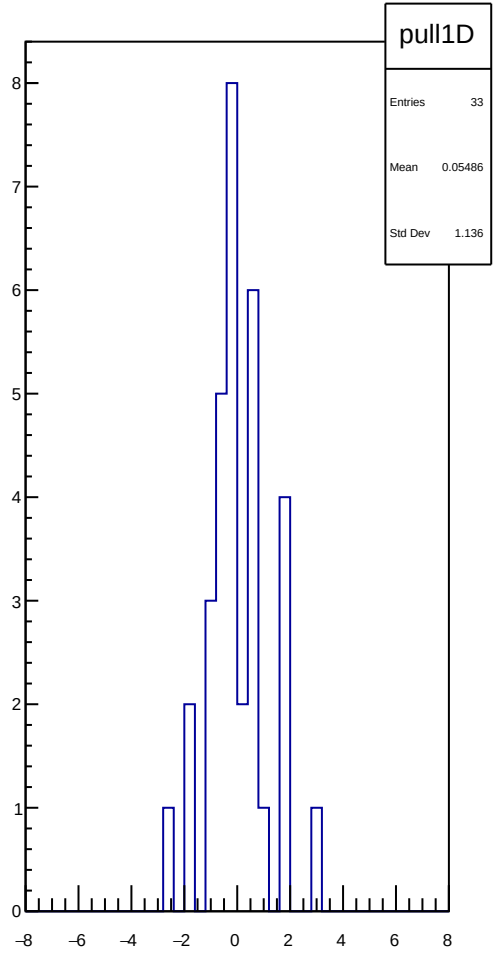

pull1D
Entries 33
Mean 0.05014
Std Dev 1.011
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

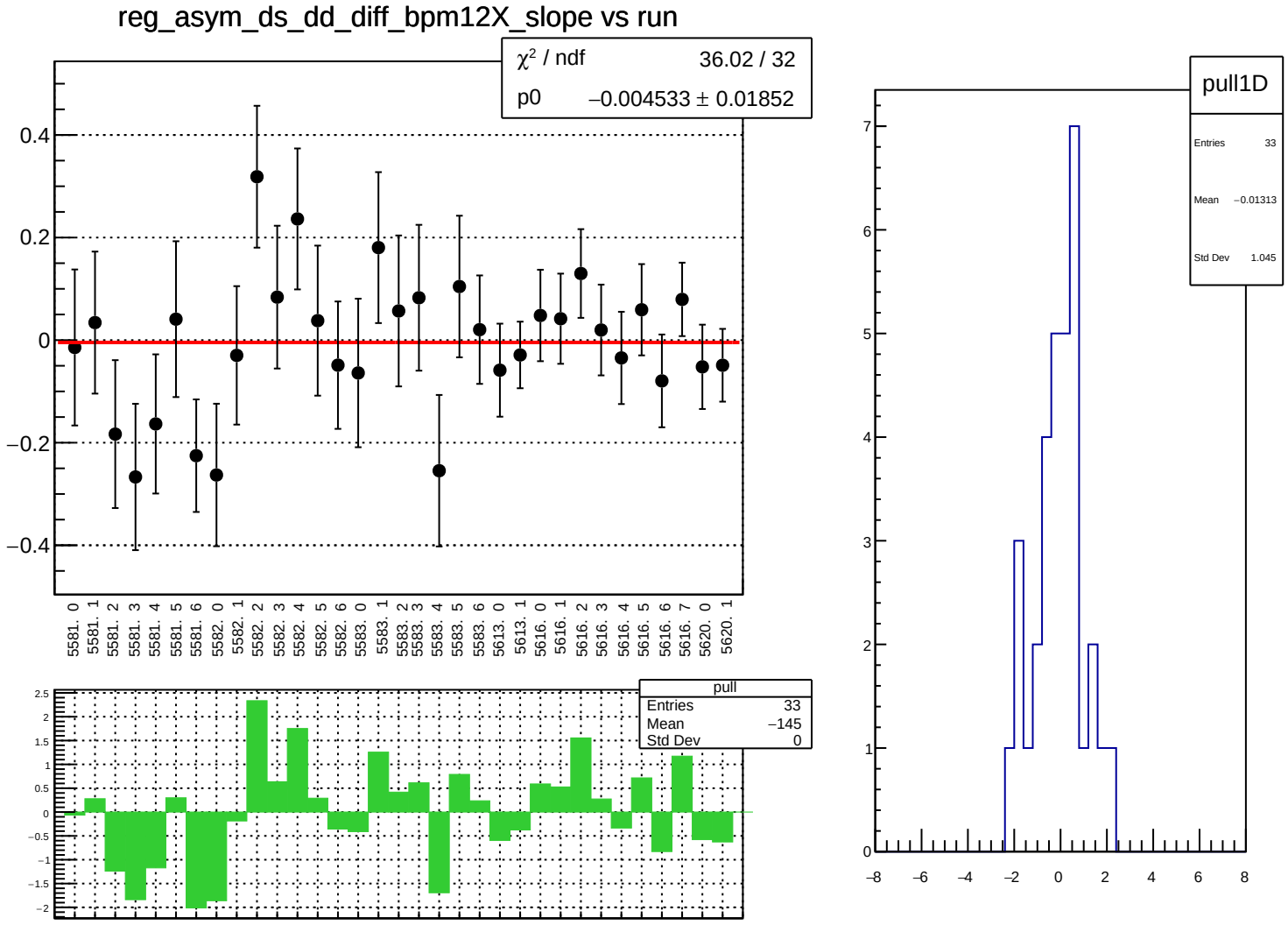

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 37.33 / 32
p0 0.3269 ± 0.4831
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −188.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.01747
Std Dev 1.063
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

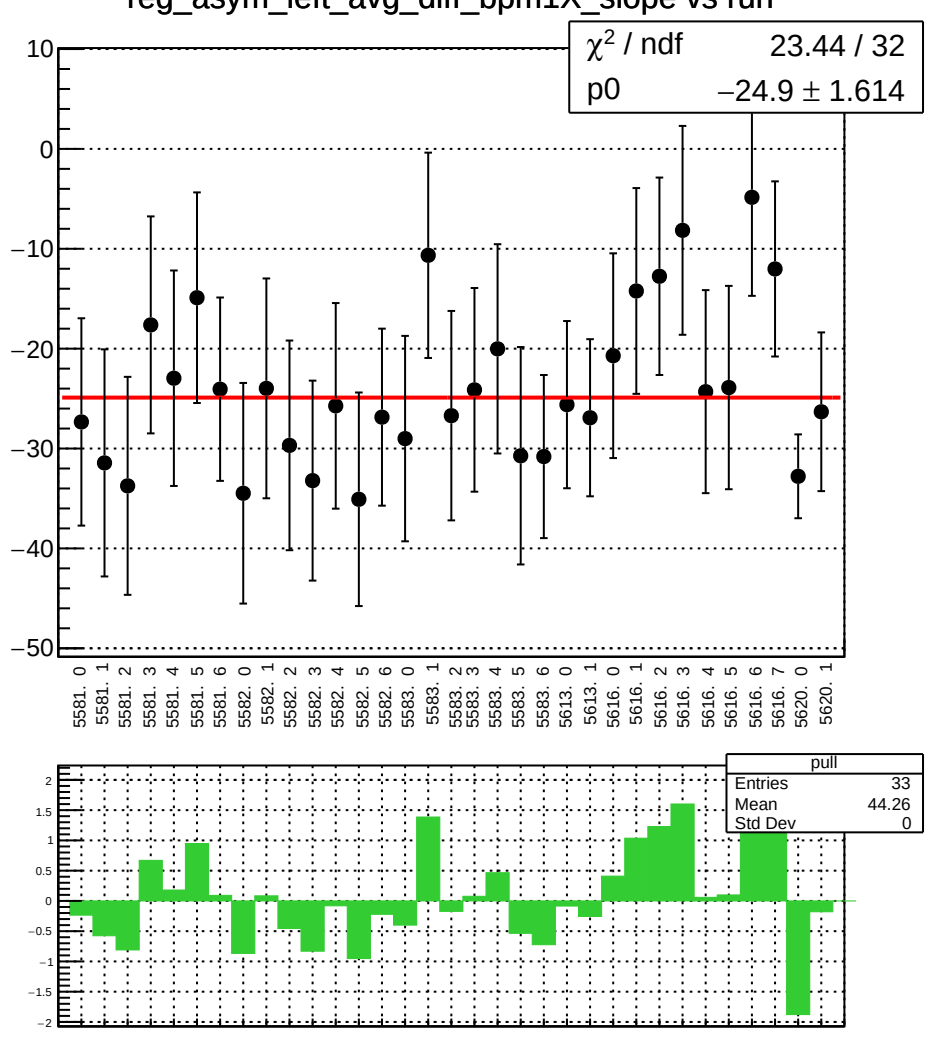

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.99 / 32
p0 0.4257 ± 0.4077
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 15.71
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean −0.05625
Std Dev 1.127
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

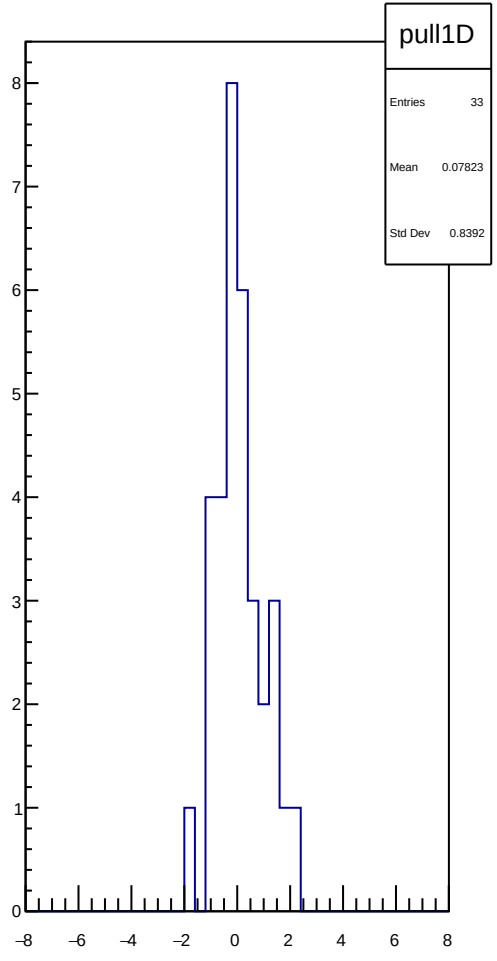

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.83 / 32
p0 −0.1854 ± 0.4033
pull
Entries 33
Mean 282.5
Std Dev 0
pull1D
Entries 33
Mean −0.01413
Std Dev 1.042

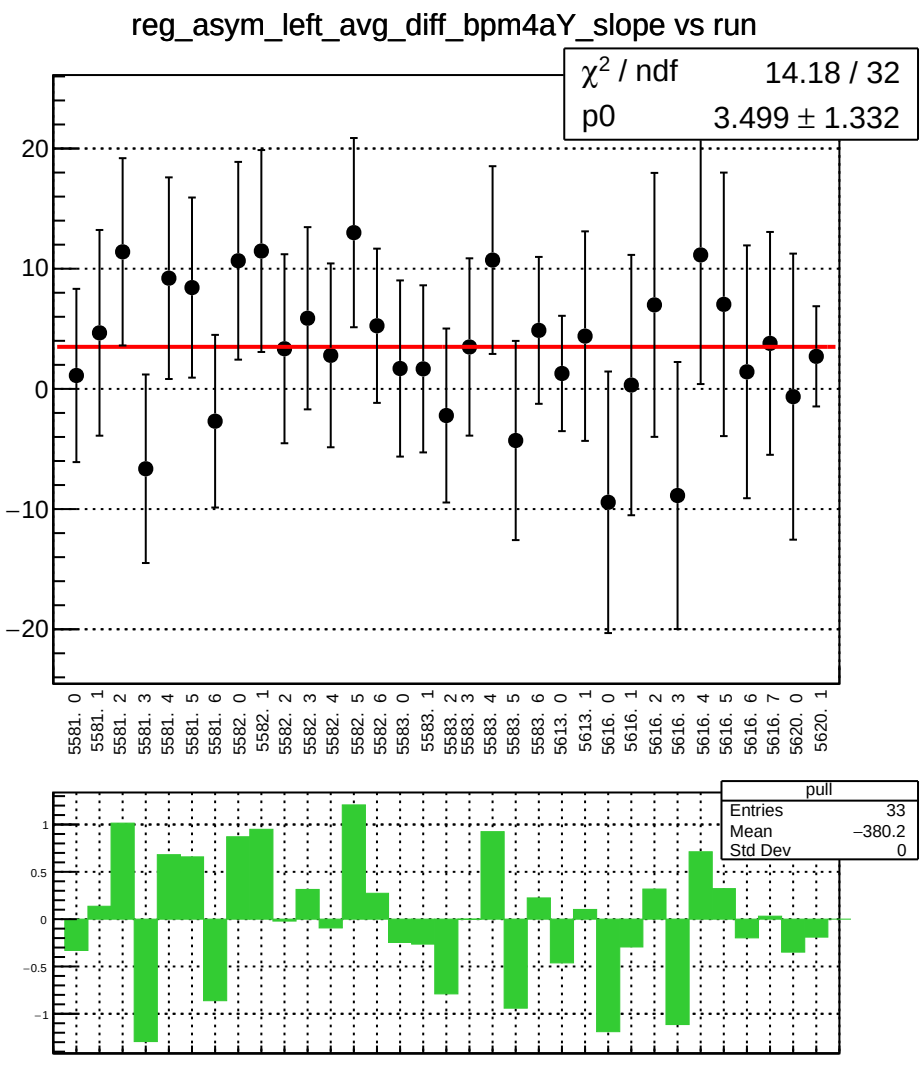

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.69 / 32
p0 −0.497 ± 0.5363
15
10
5
0
−5
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 14.54
Std Dev 0
3
2
1
0
−1
−2

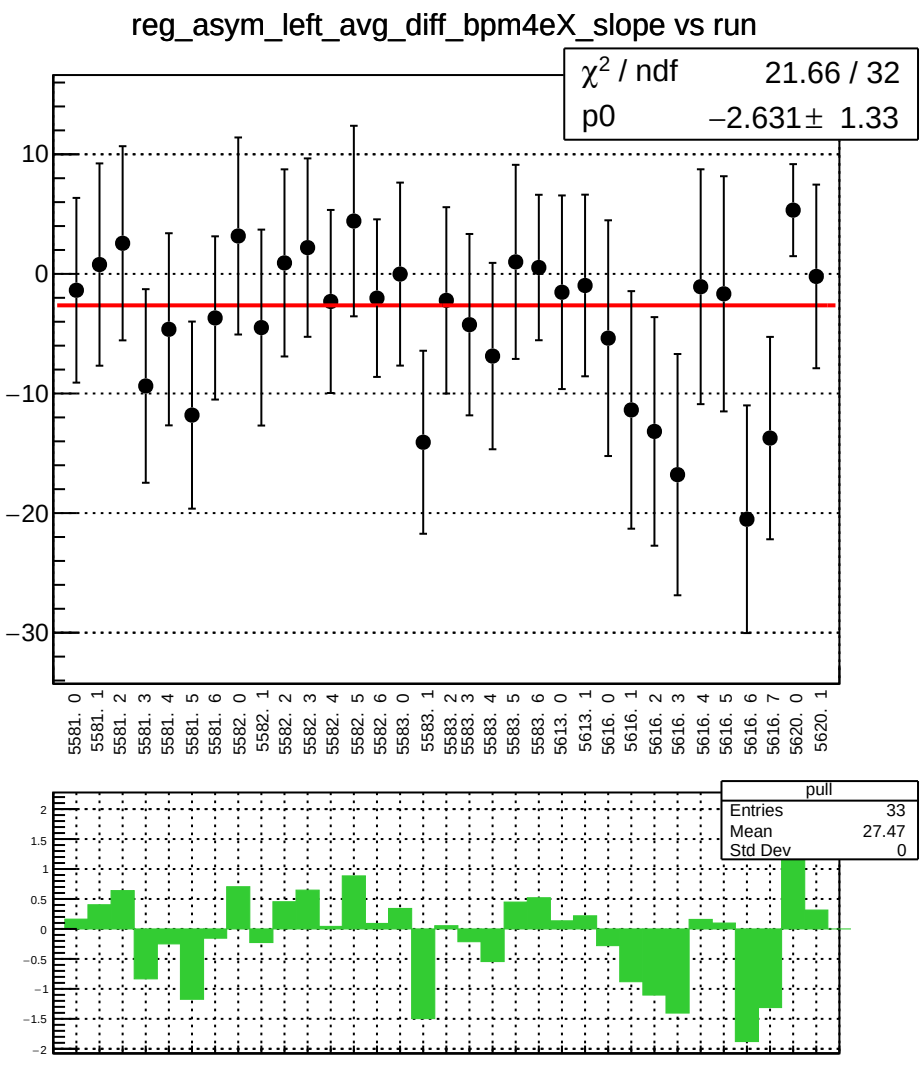

pull1D
Entries 33
Mean 0.05486
Std Dev 1.136
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

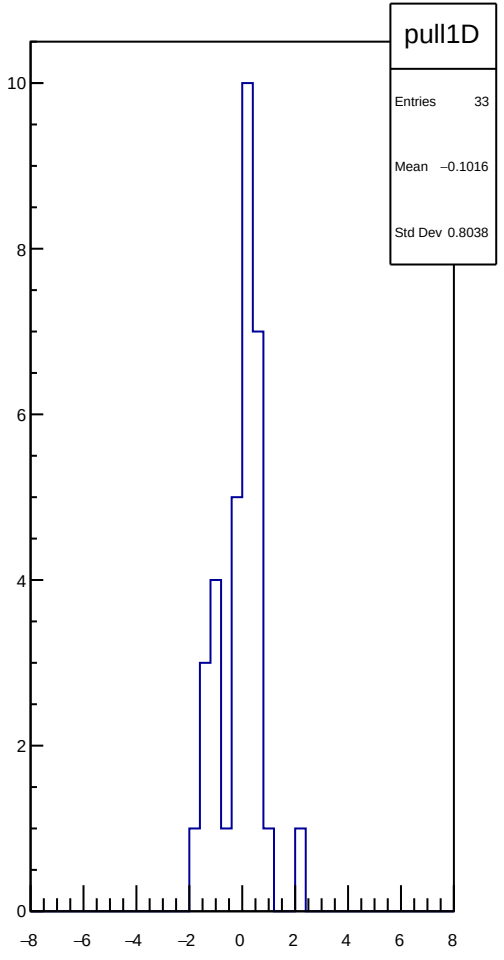

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 36.02 / 32
p0 −0.004533 ± 0.01852
0.4
0.2
0
−0.2
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −145
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01313
Std Dev 1.045
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

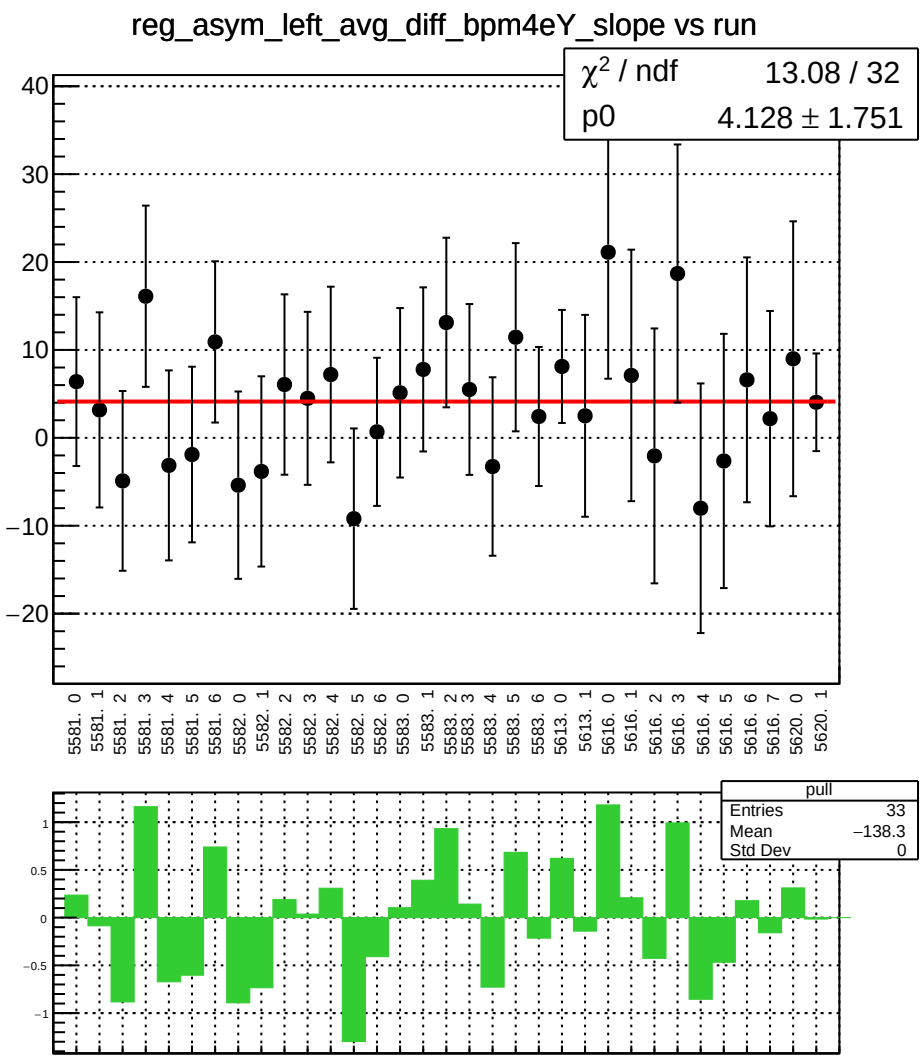

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 23.44 / 32
p0 −24.9 ± 1.614
pull
Entries 33
Mean 44.26
Std Dev 0

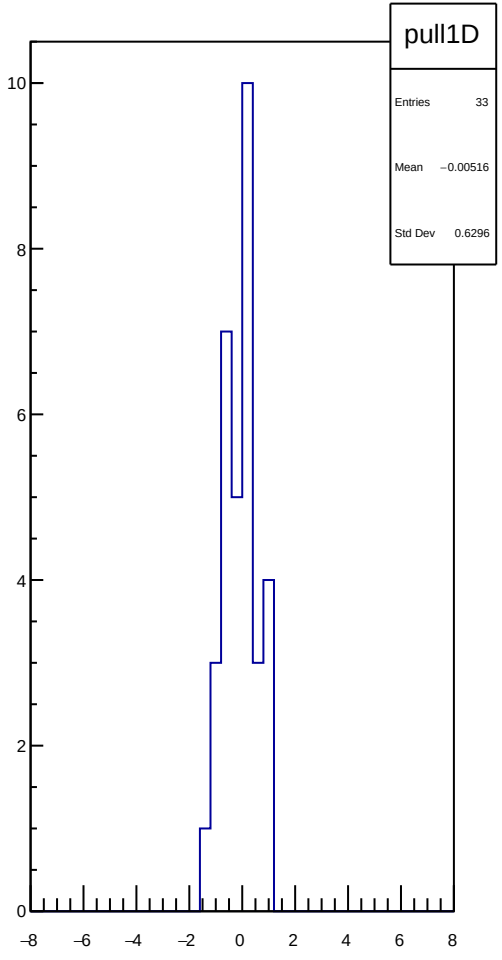

pull1D
Entries 33
Mean 0.07823
Std Dev 0.8392

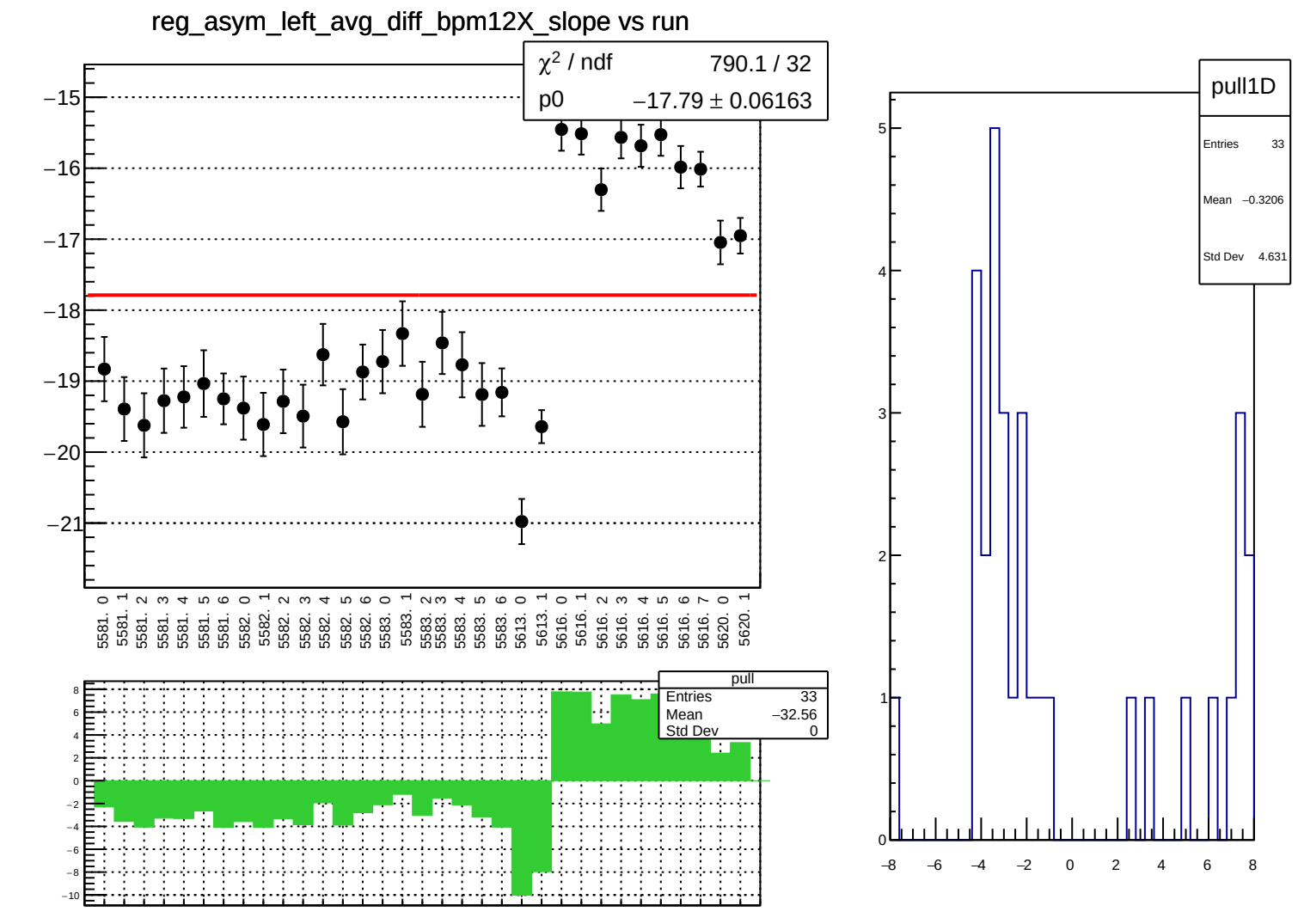

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.18 / 32
p0 3.499 ± 1.332
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −380.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.003204
Std Dev 0.6555
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

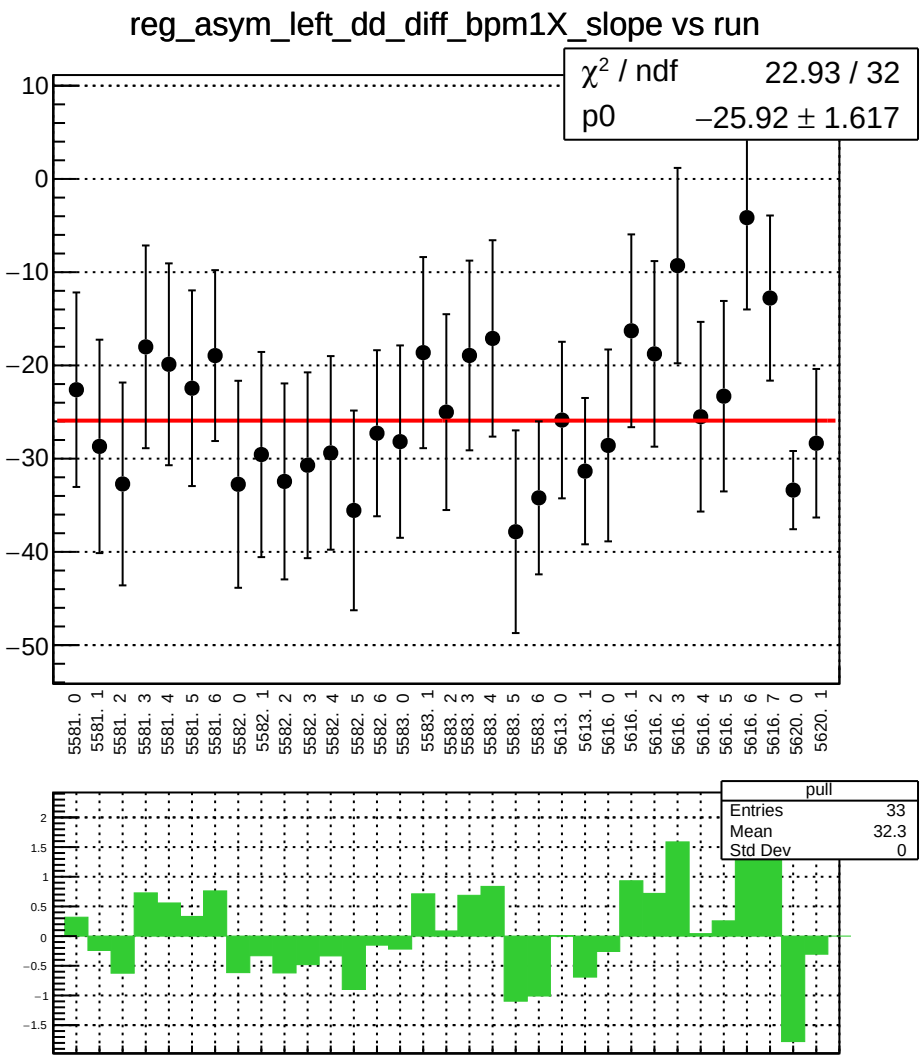

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.66 / 32
p0 −2.631± 1.33
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

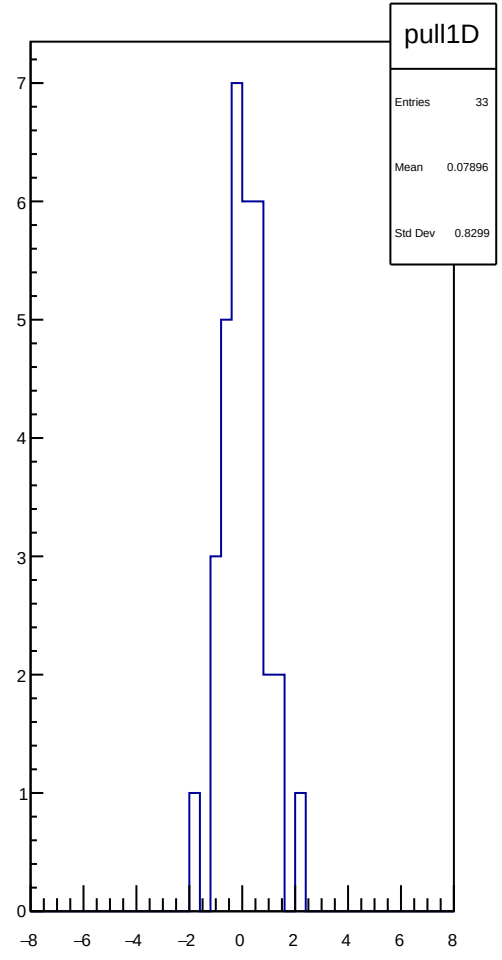

pull1D
Entries 33
Mean −0.1016
Std Dev 0.8038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

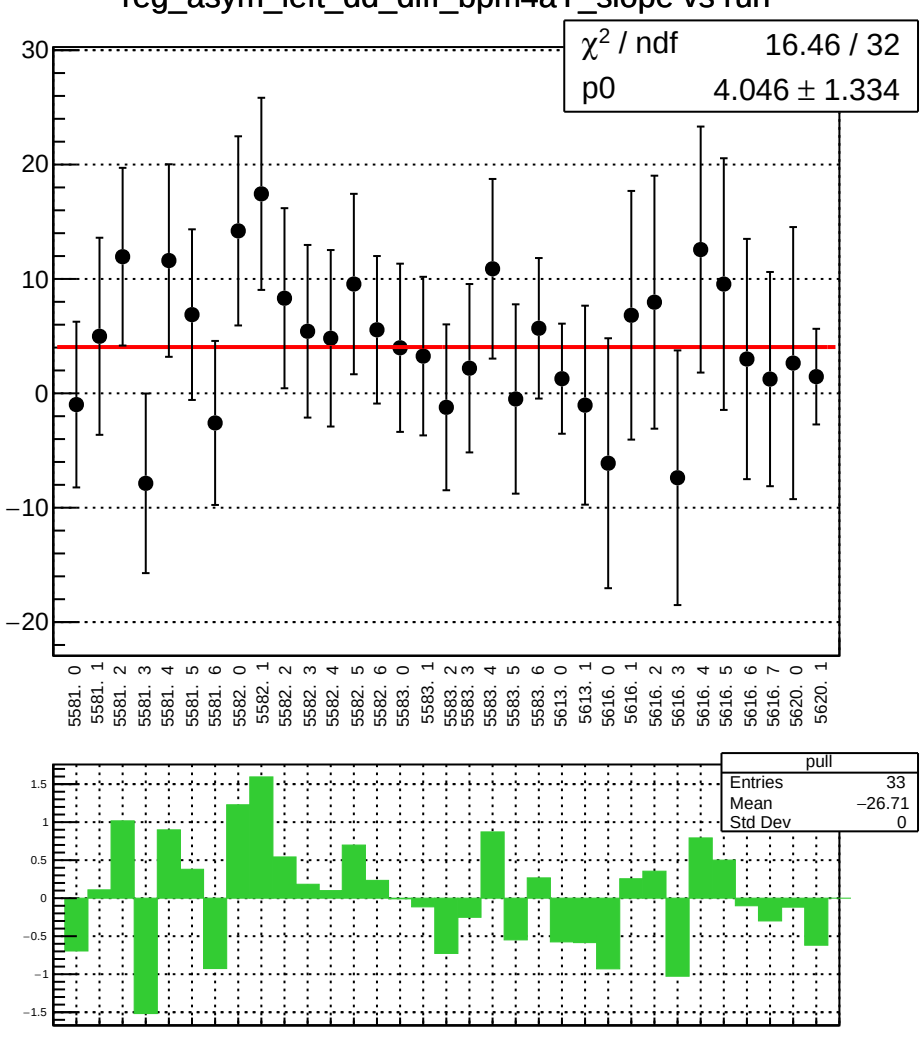

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.08 / 32
p0 4.128 ± 1.751
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −138.3
Std Dev 0
1
0.5
0
−0.5
−1

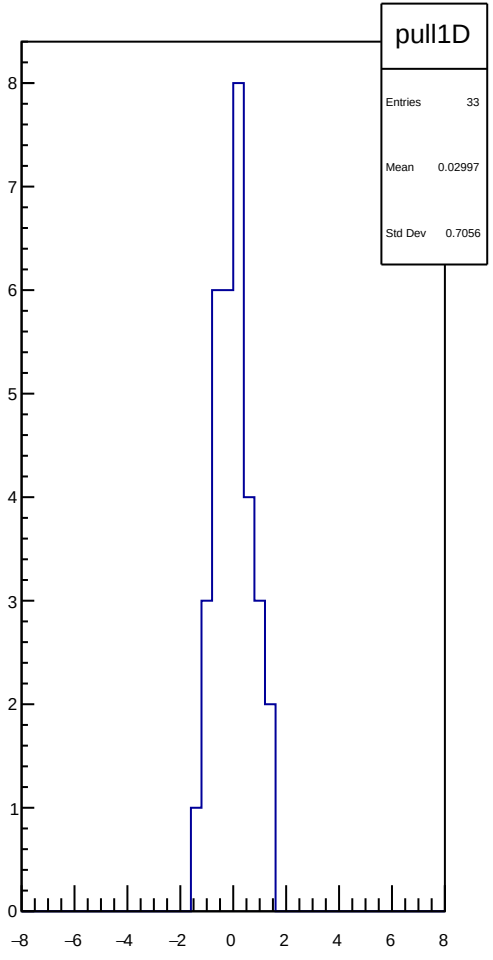

pull1D
Entries 33
Mean −0.00516
Std Dev 0.6296
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

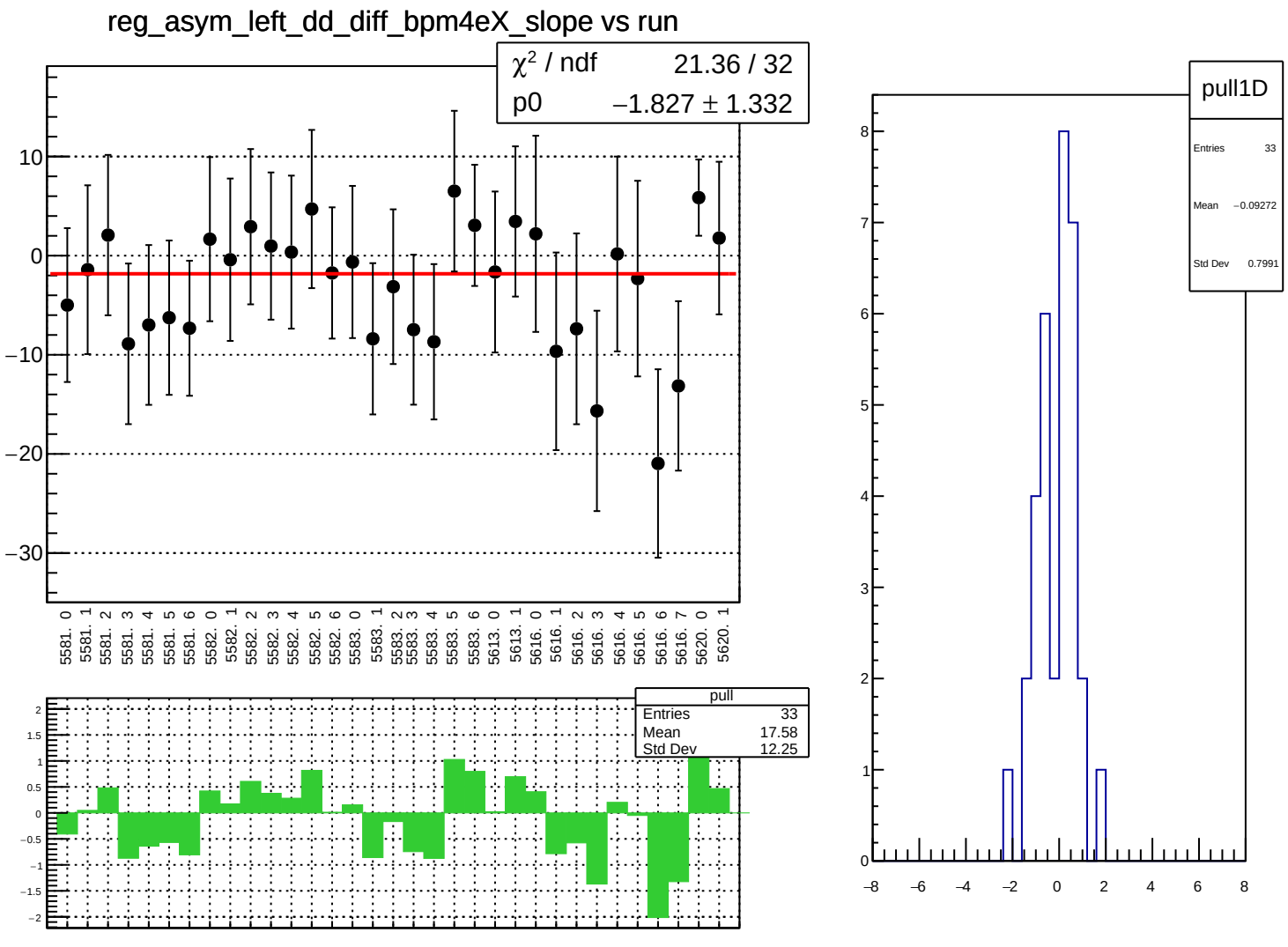

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 790.1 / 32
p0 −17.79 ± 0.06163
−15
−16
−17
−18
−19
−20
−21
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −32.56
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 33
Mean −0.3206
Std Dev 4.631
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

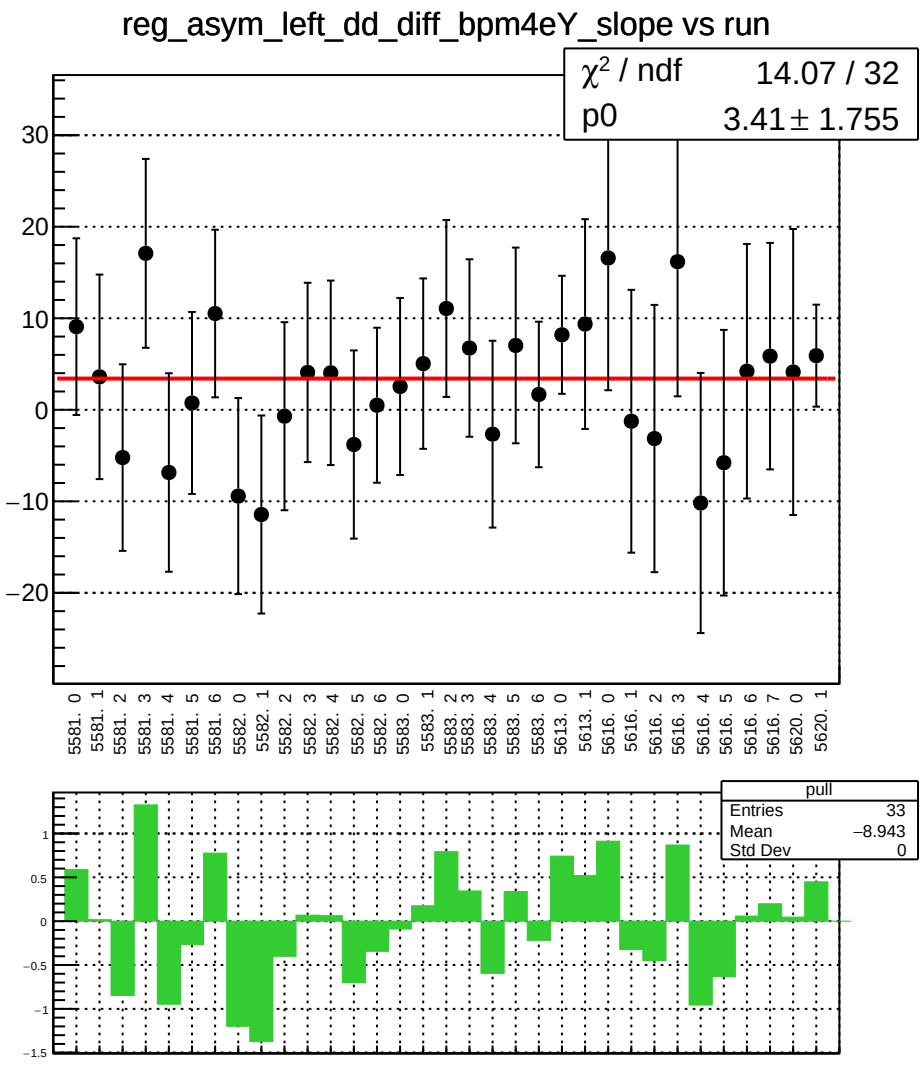

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 22.93 / 32
p0 −25.92 ± 1.617
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 32.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

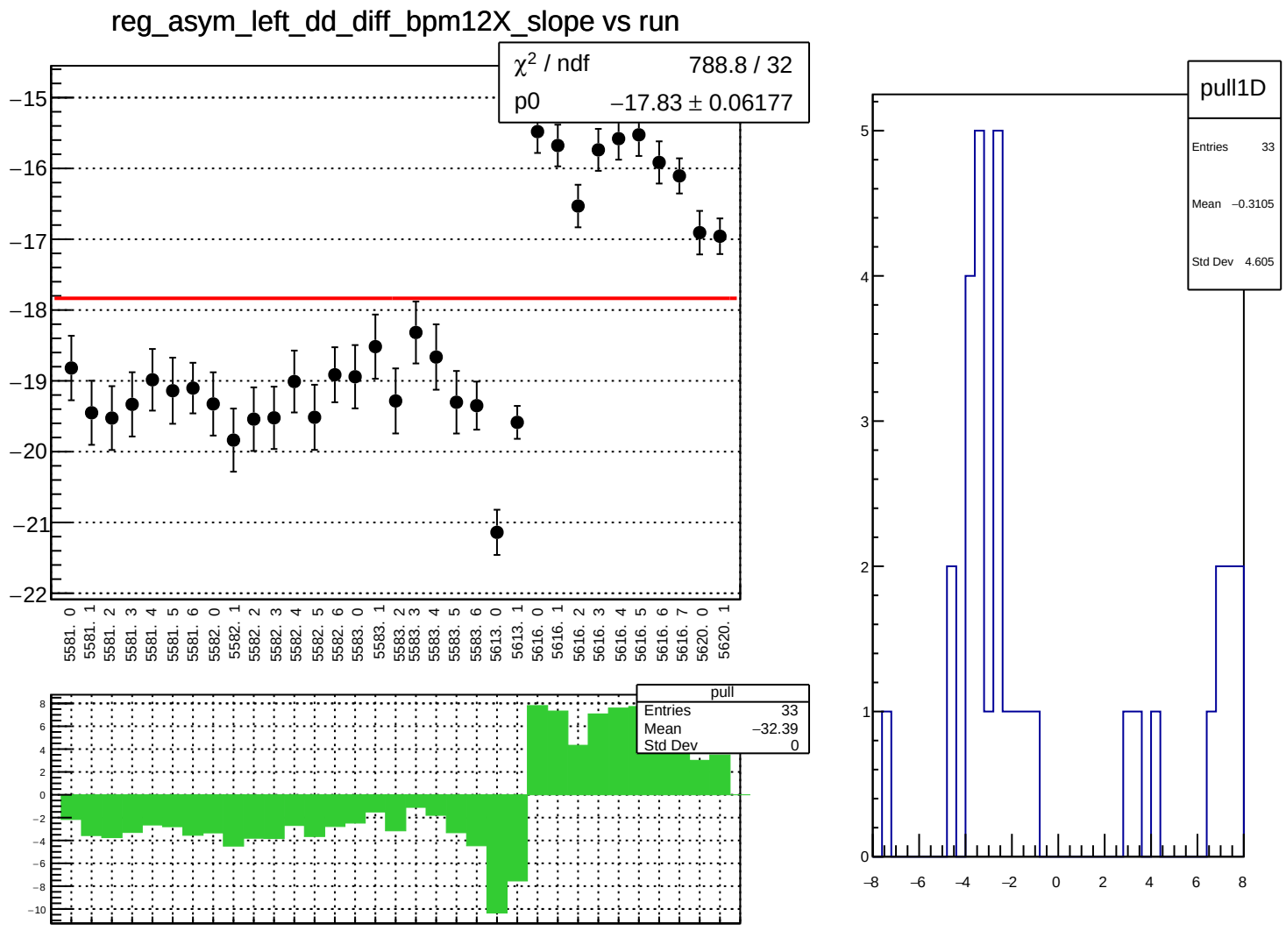

pull1D
Entries 33
Mean 0.07896
Std Dev 0.8299
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

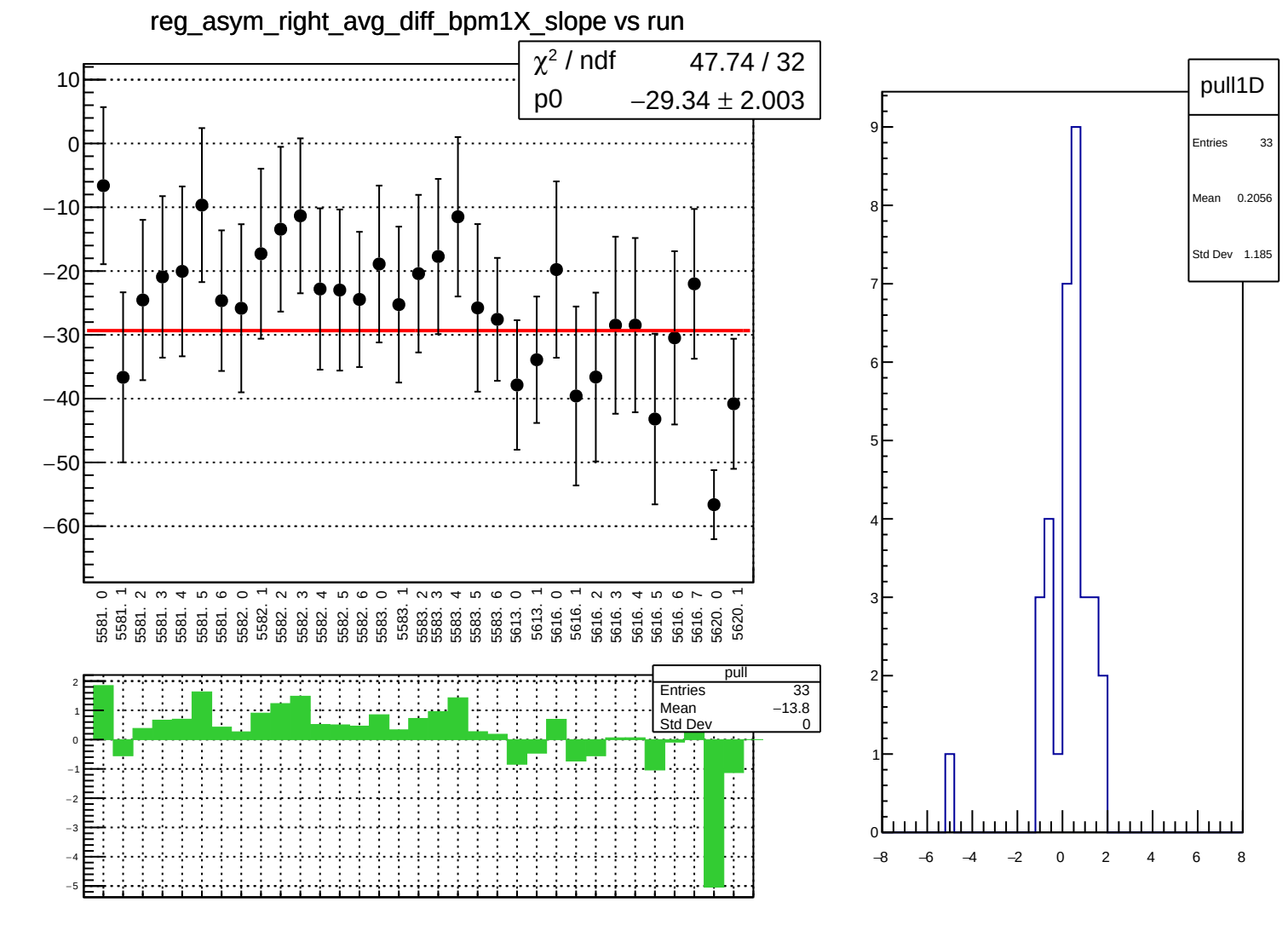

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.46 / 32
p0 4.046 ± 1.334
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −26.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

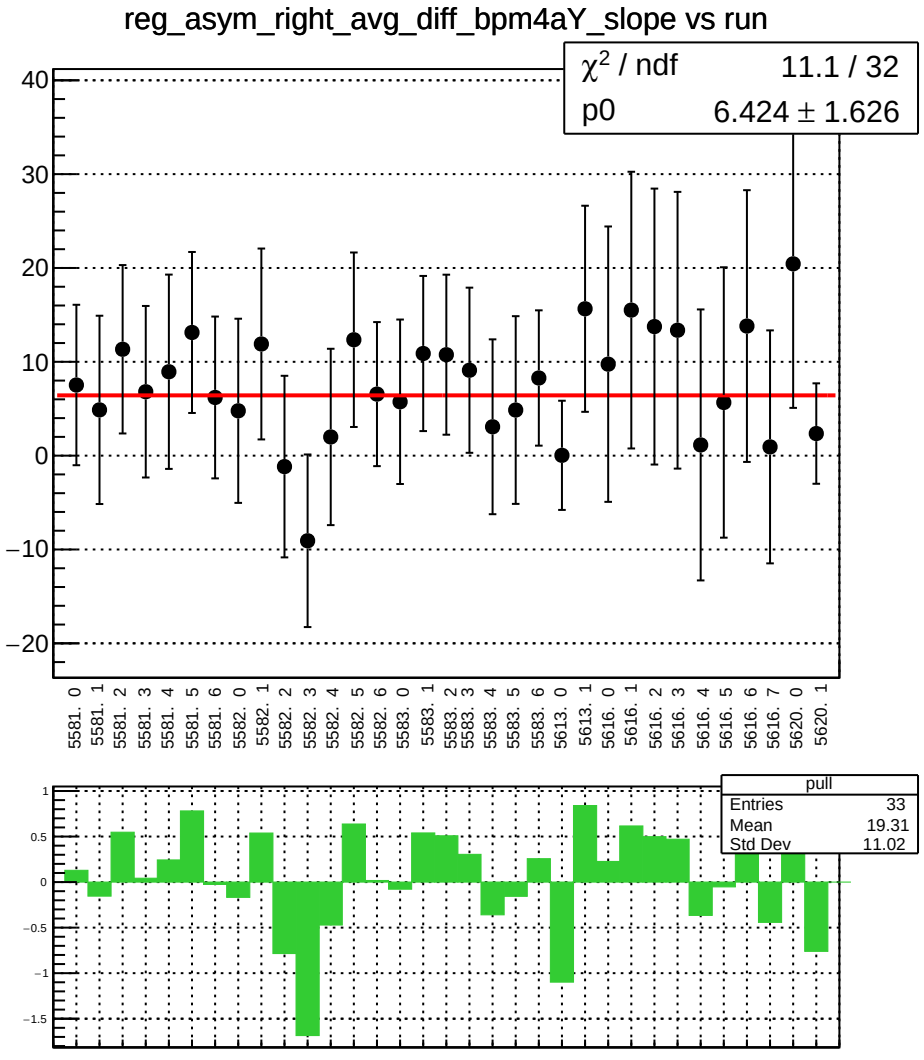

pull1D
Entries 33
Mean 0.02997
Std Dev 0.7056
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

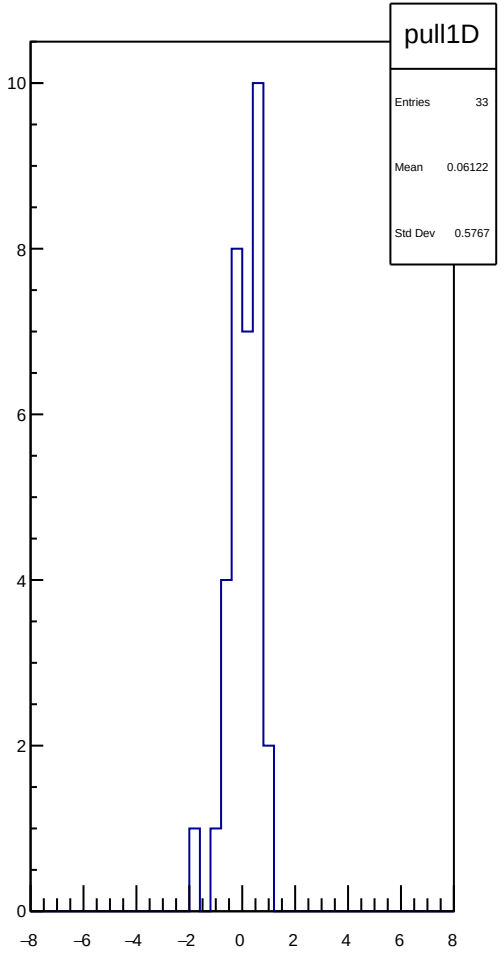

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.36 / 32
p0 −1.827 ± 1.332
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.58
Std Dev 12.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.09272
Std Dev 0.7991
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

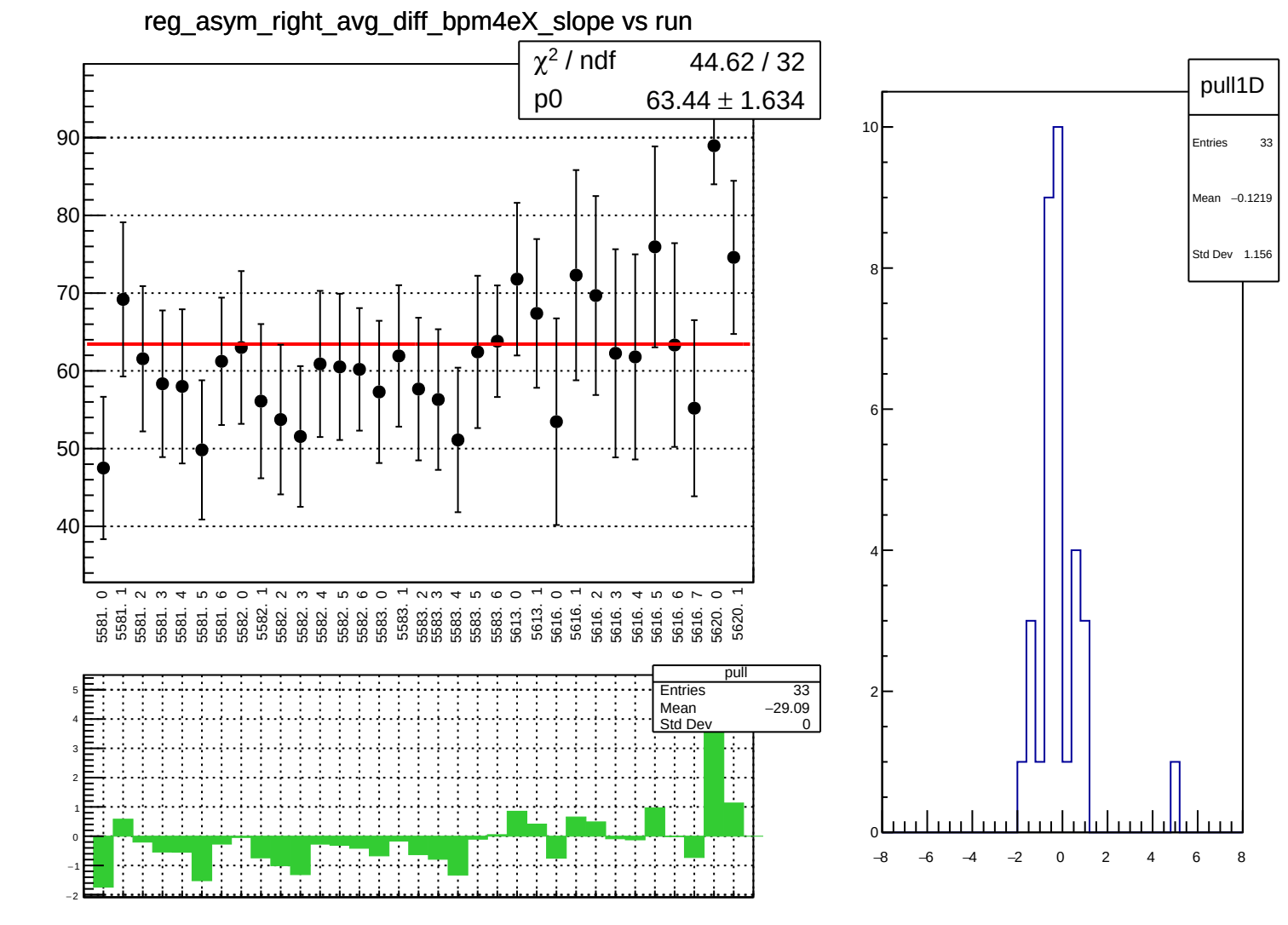

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.07 / 32
p0 3.41 ± 1.755
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −8.943
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.03218
Std Dev 0.6521
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

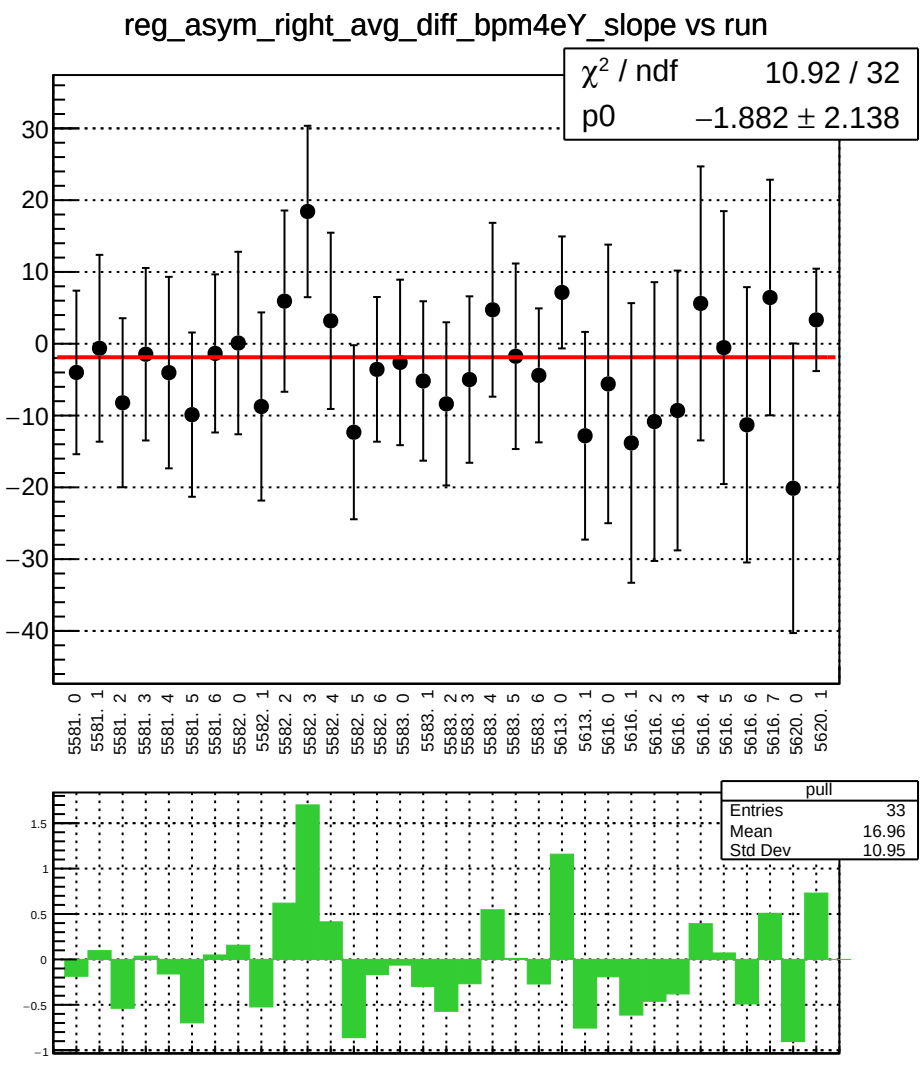

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 788.8 / 32
p0 −17.83 ± 0.06177
pull
Entries 33
Mean −32.39
Std Dev 0
pull1D
Entries 33
Mean −0.3105
Std Dev 4.605

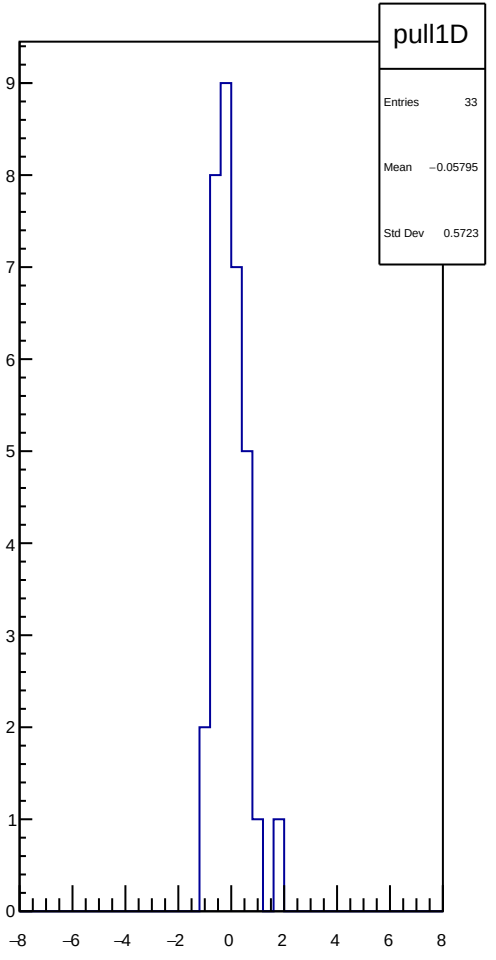

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 47.74 / 32
p0 −29.34 ± 2.003
pull
Entries 33
Mean −13.8
Std Dev 0
pull1D
Entries 33
Mean 0.2056
Std Dev 1.185

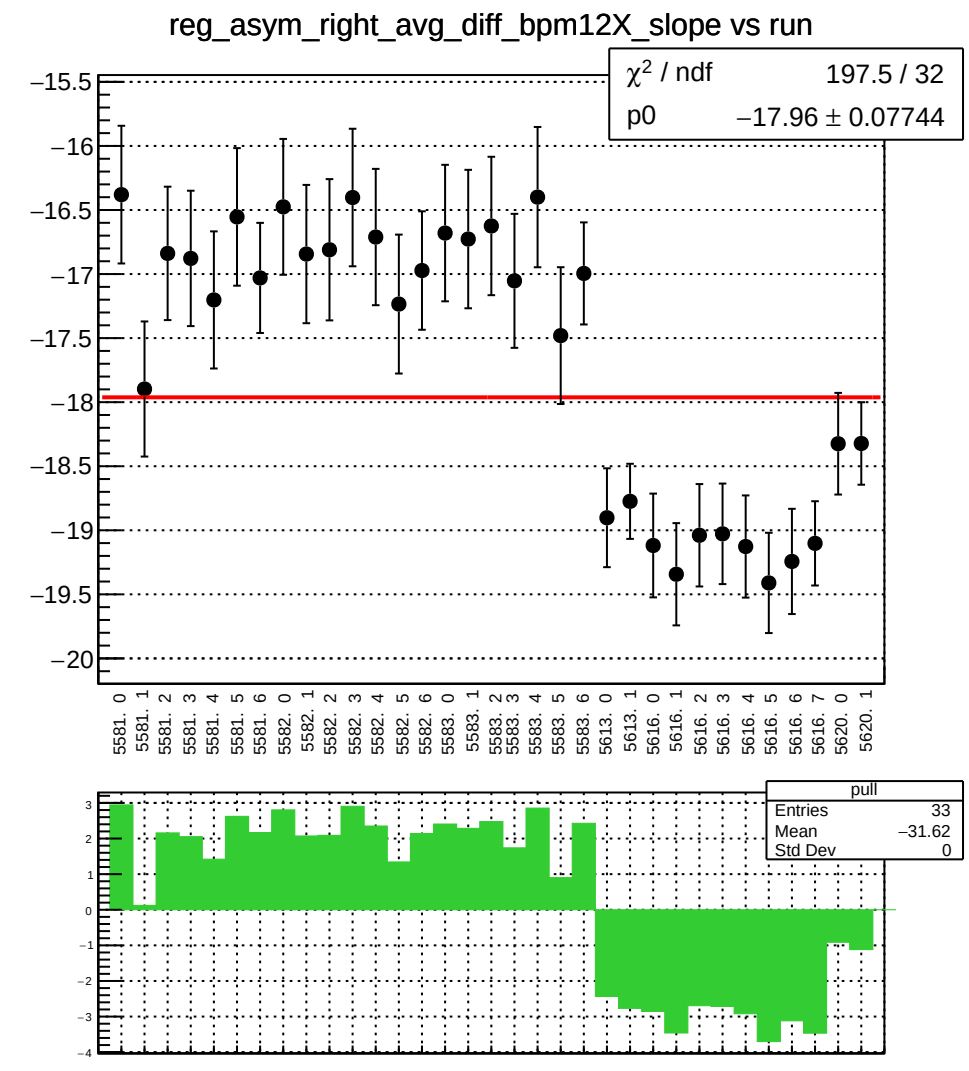

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 11.1 / 32
p0 6.424 ± 1.626
pull
Entries 33
Mean 19.31
Std Dev 11.02

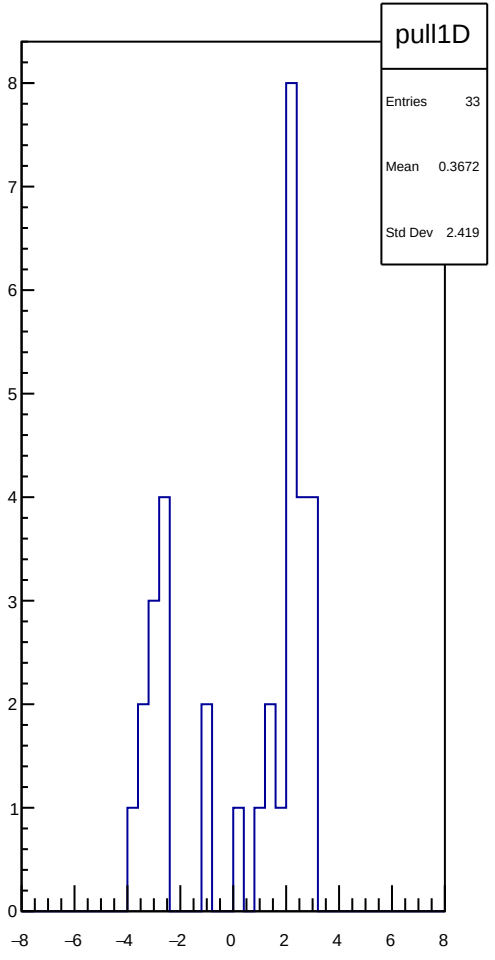

pull1D
Entries 33
Mean 0.06122
Std Dev 0.5767

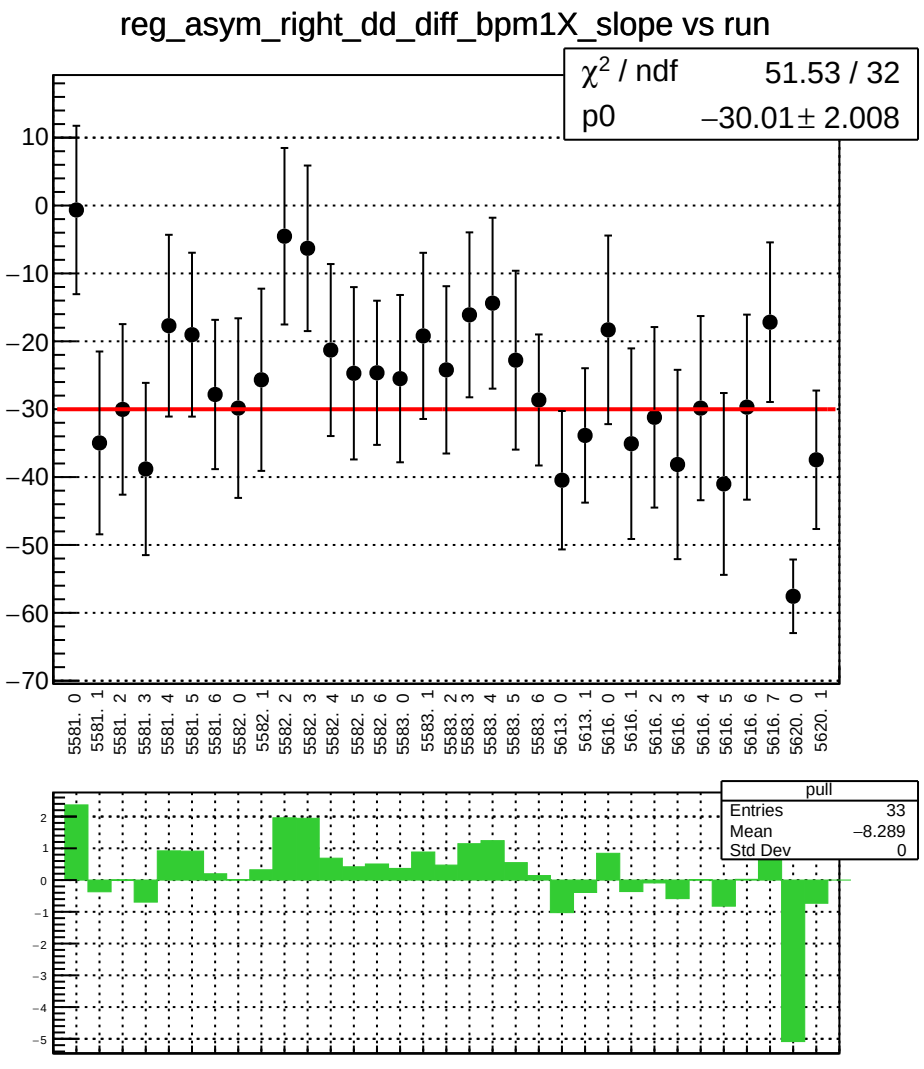

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.62 / 32
p0 63.44 ± 1.634
90
80
70
60
50
40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −29.09
Std Dev 0
5
4
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.1219
Std Dev 1.156
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

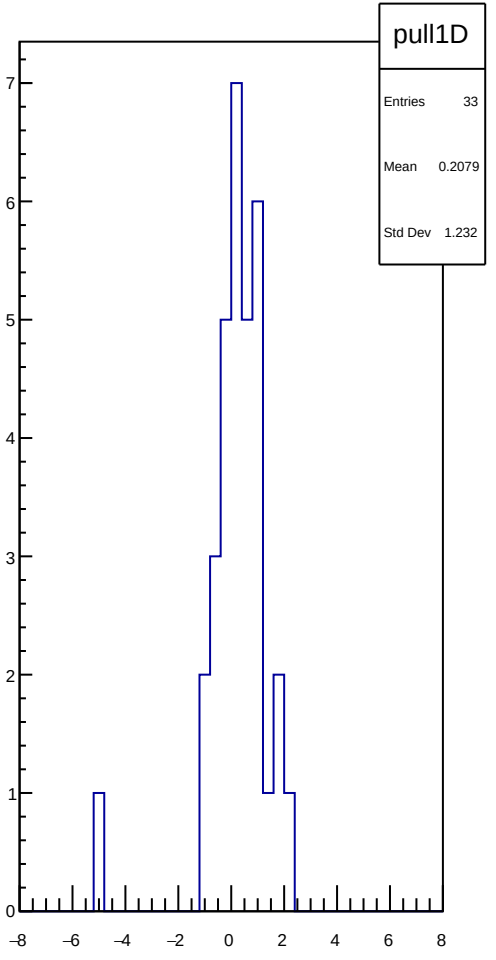

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.92 / 32
p0 −1.882 ± 2.138
30
20
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.96
Std Dev 10.95
1.5
1
0.5
0
−0.5
−1

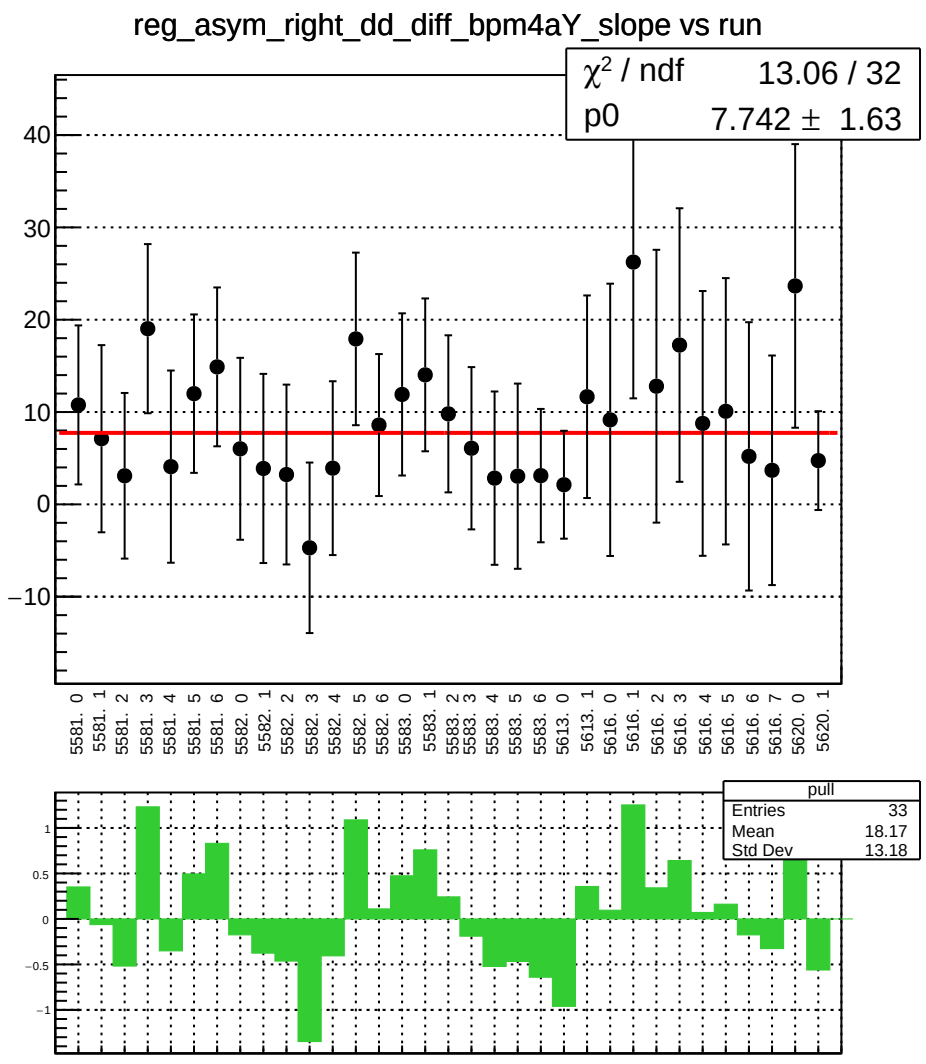

pull1D
Entries 33
Mean −0.05795
Std Dev 0.5723
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

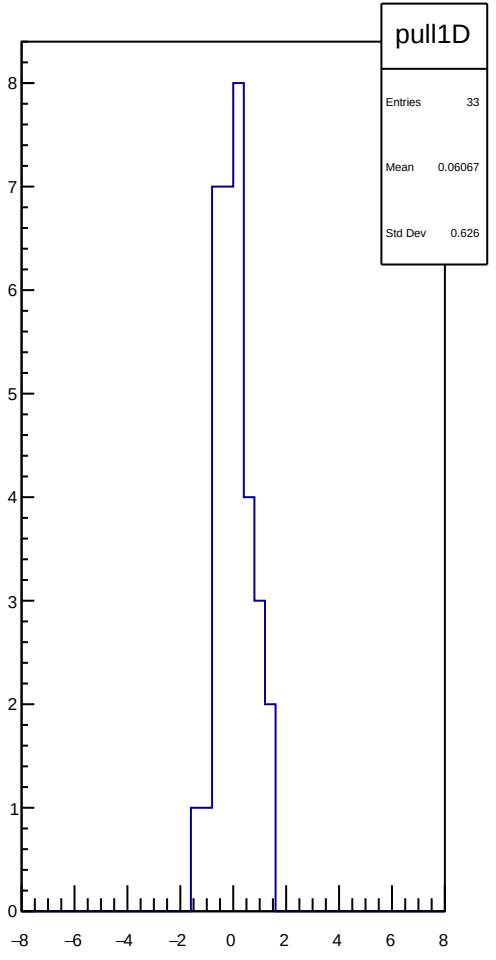

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 197.5 / 32
p0 −17.96 ± 0.07744
pull
Entries 33
Mean −31.62
Std Dev 0

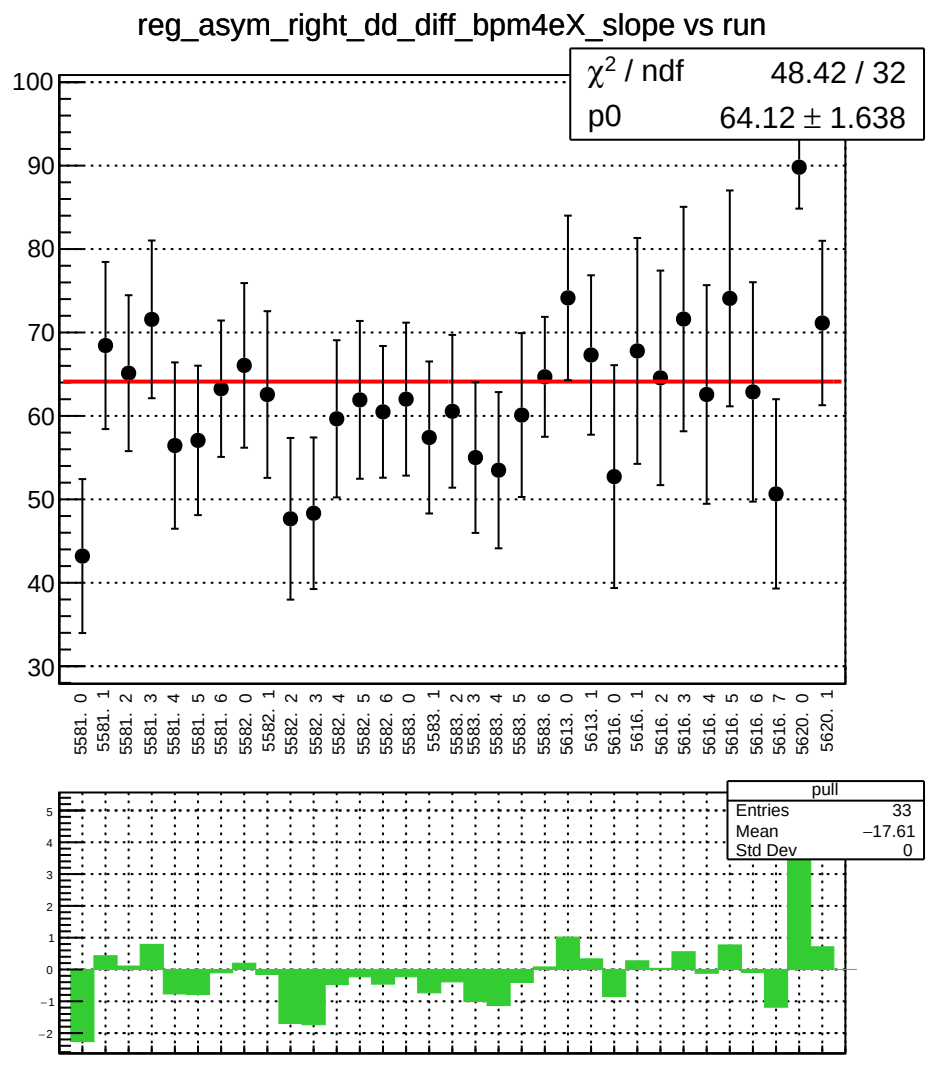

pull1D
Entries 33
Mean 0.3672
Std Dev 2.419

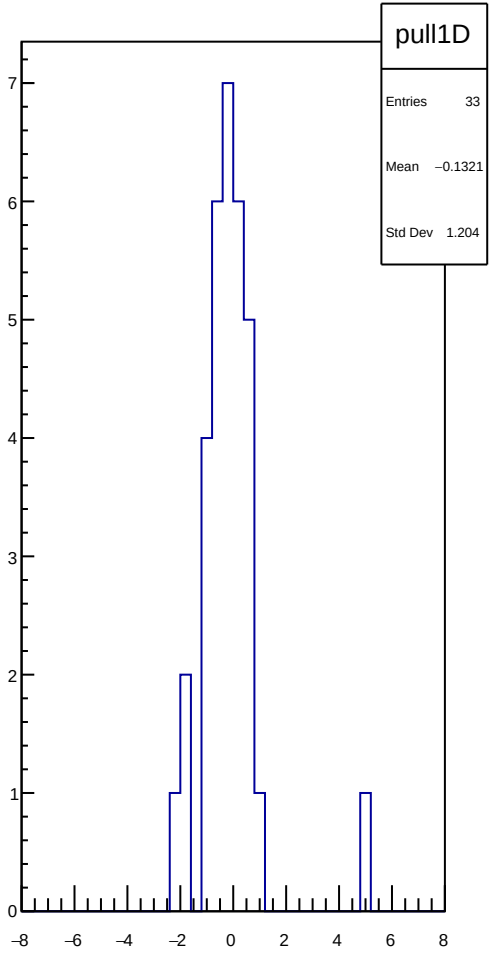

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 51.53 / 32
p0 −30.01 ± 2.008
10
0
−10
−20
−30
−40
−50
−60
−70
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −8.289
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

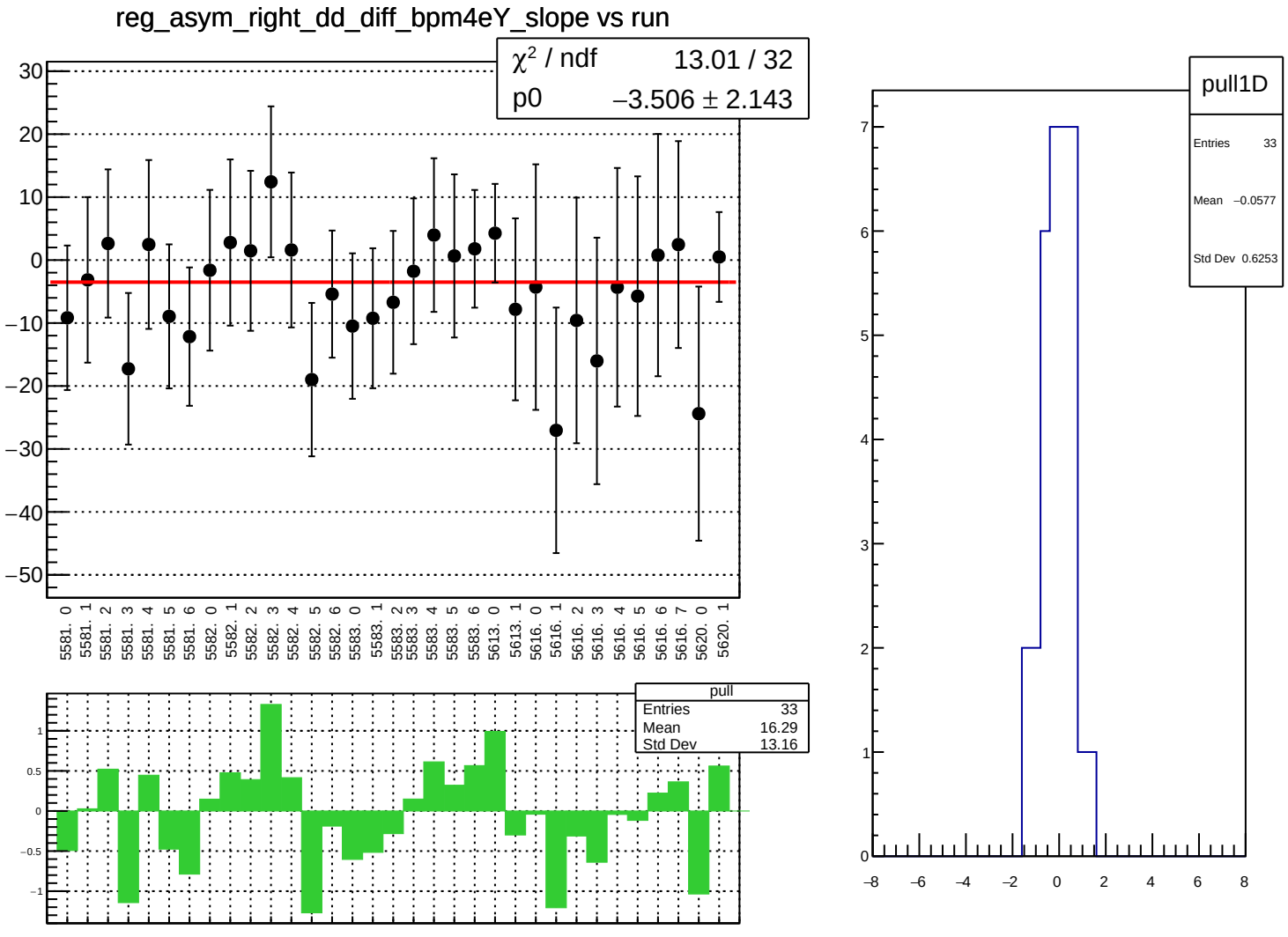

pull1D
Entries 33
Mean 0.2079
Std Dev 1.232
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

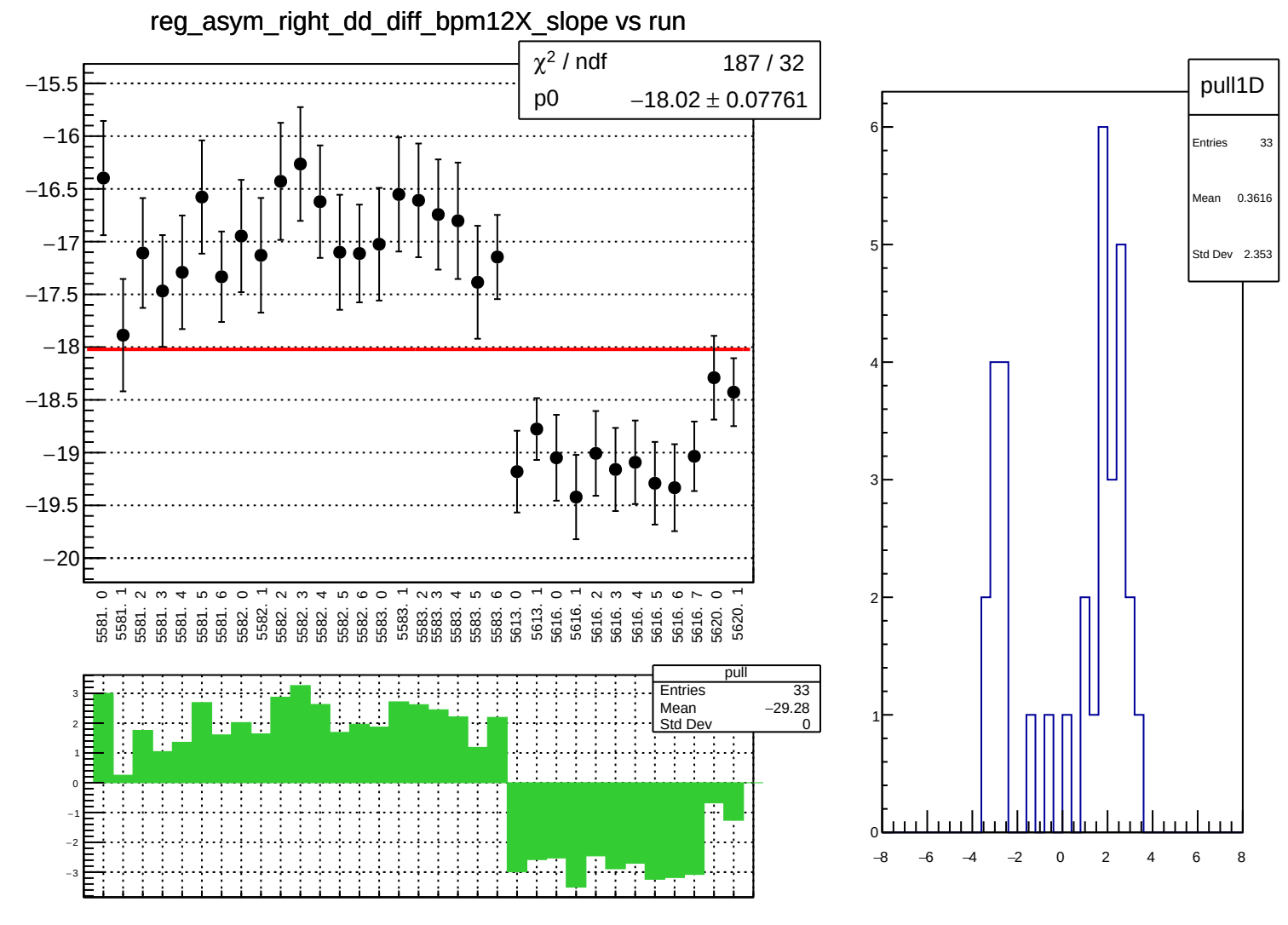

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.06 / 32
p0 7.742 ± 1.63
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.17
Std Dev 13.18
1
0.5
0
−0.5
−1

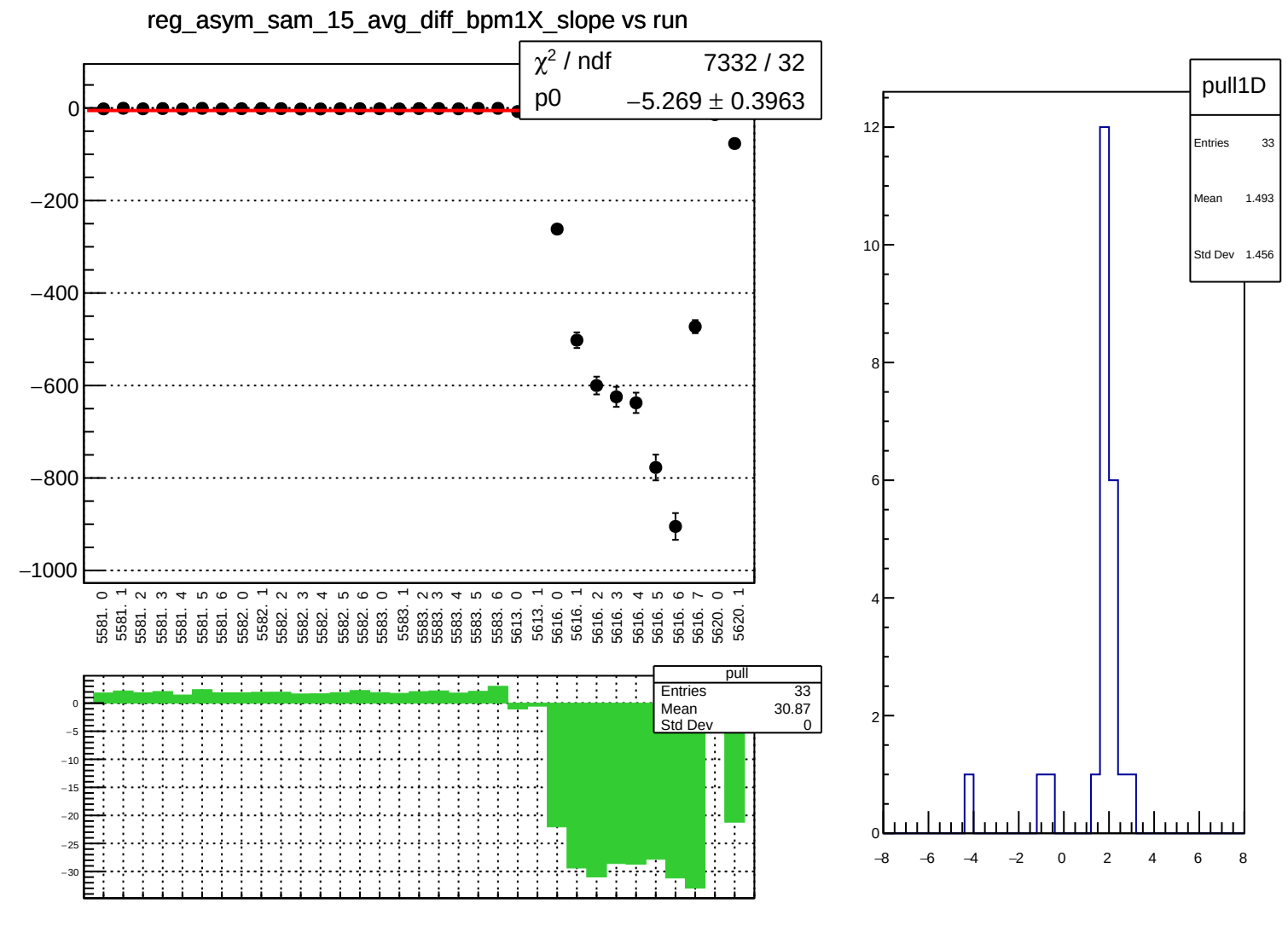

pull1D
Entries 33
Mean 0.06067
Std Dev 0.626
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

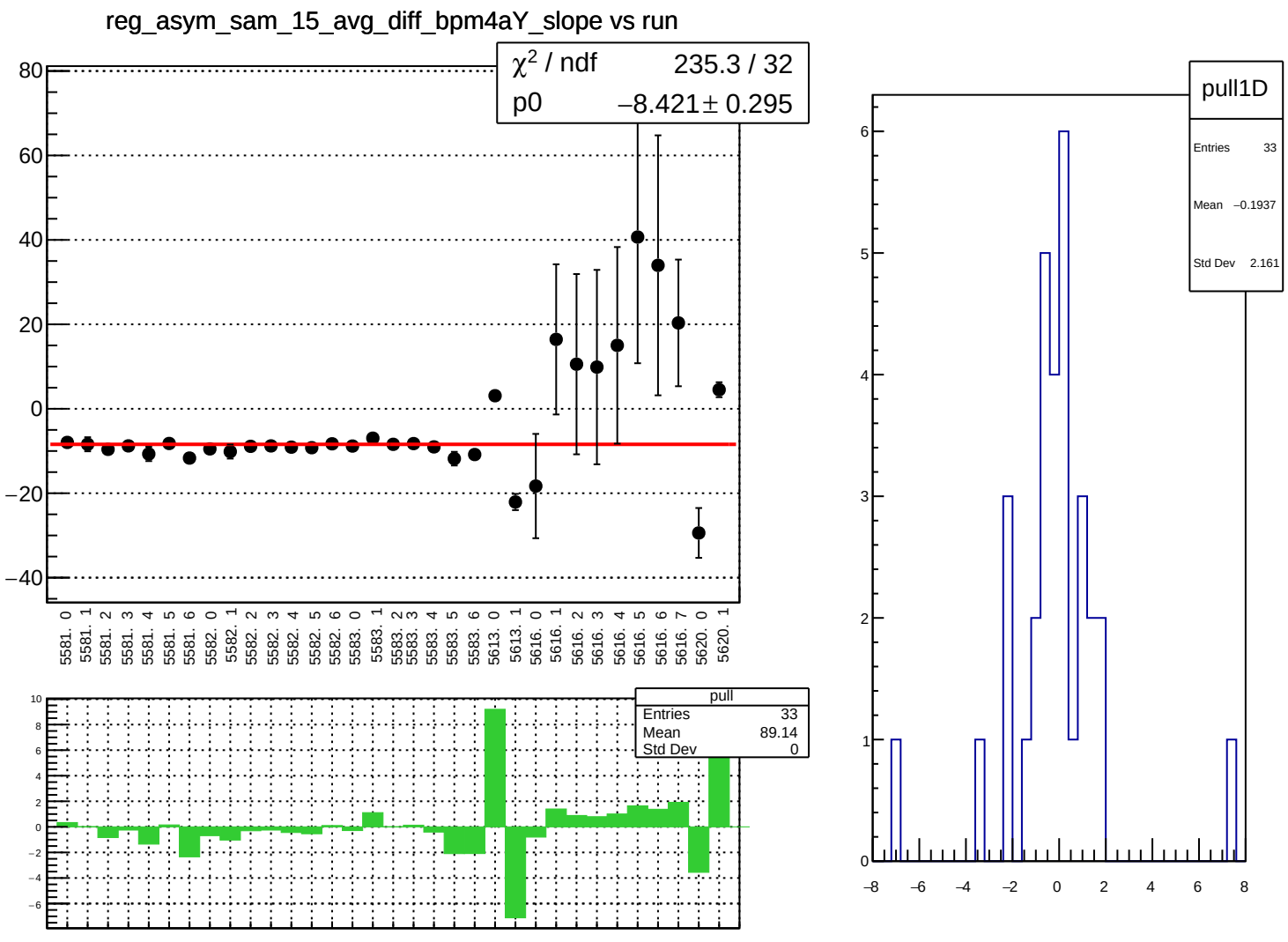

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.42 / 32
p0 64.12 ± 1.638
pull
Entries 33
Mean −17.61
Std Dev 0

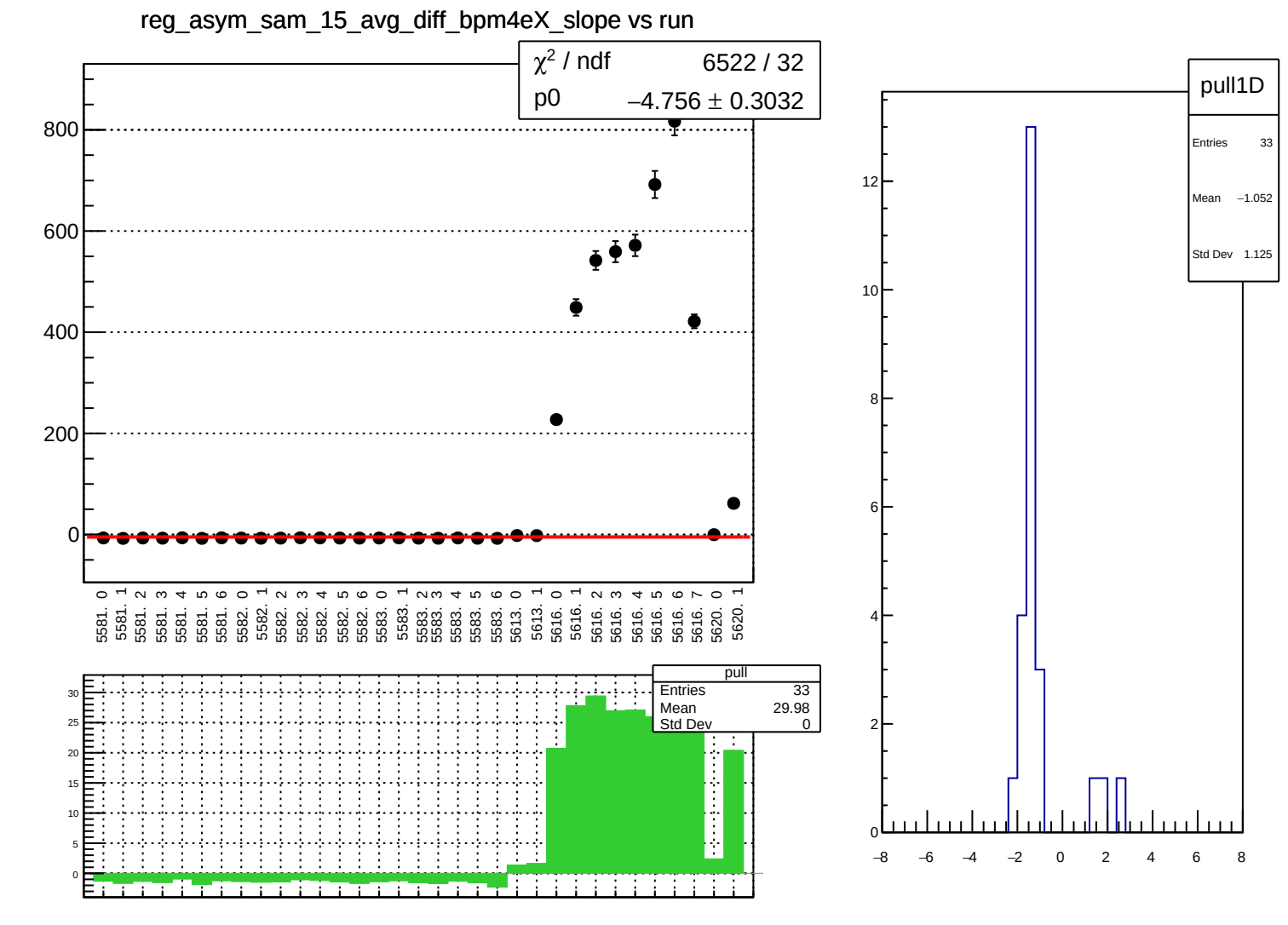

pull1D
Entries 33
Mean −0.1321
Std Dev 1.204

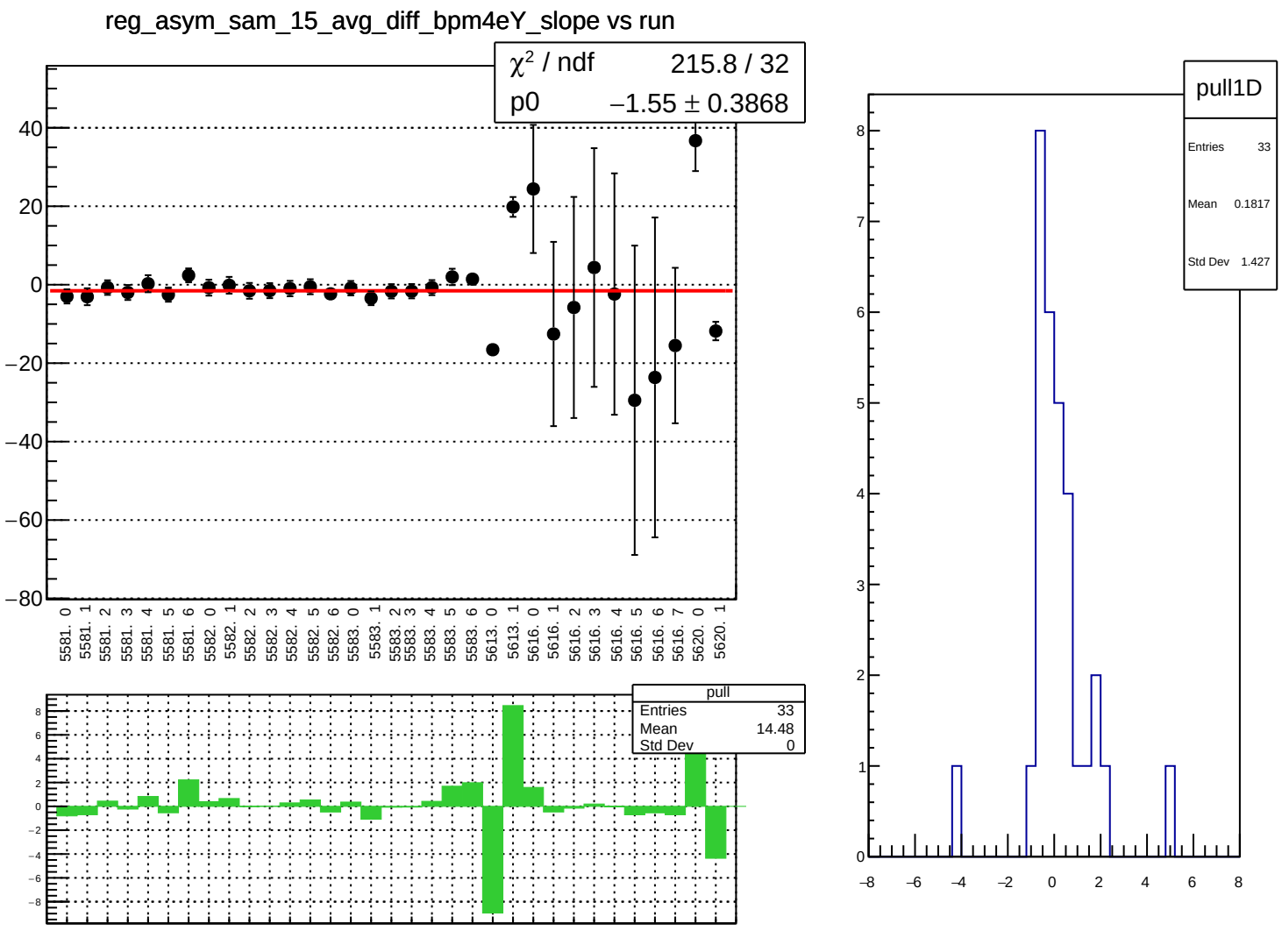

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.01 / 32
p0 −3.506 ± 2.143
30
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.29
Std Dev 13.16
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.0577
Std Dev 0.6253
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

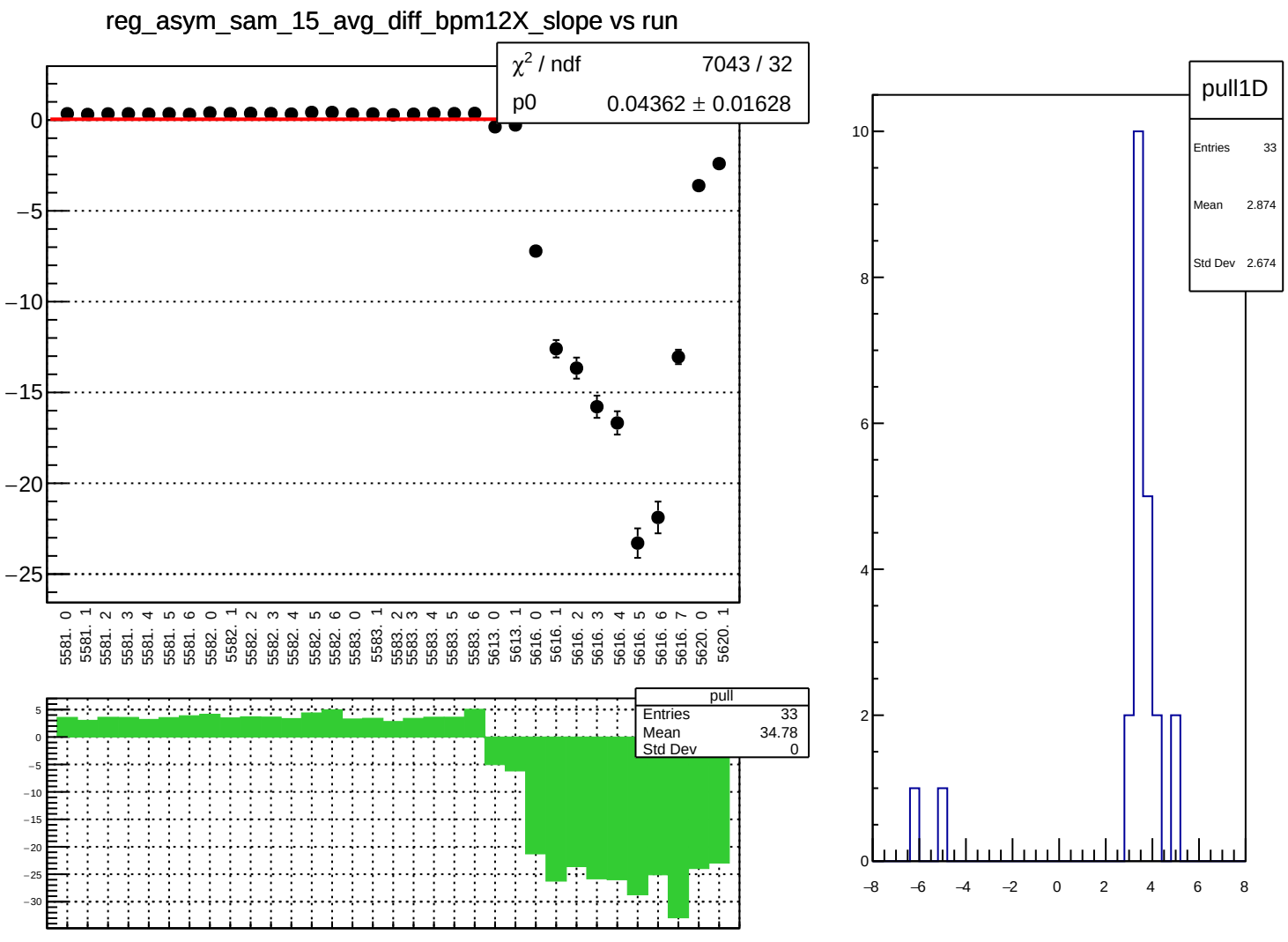

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 187 / 32
p0 −18.02 ± 0.07761
−15.5
−16
−16.5
−17
−17.5
−18
−18.5
−19
−19.5
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −29.28
Std Dev 0
pull1D
Entries 33
Mean 0.3616
Std Dev 2.353

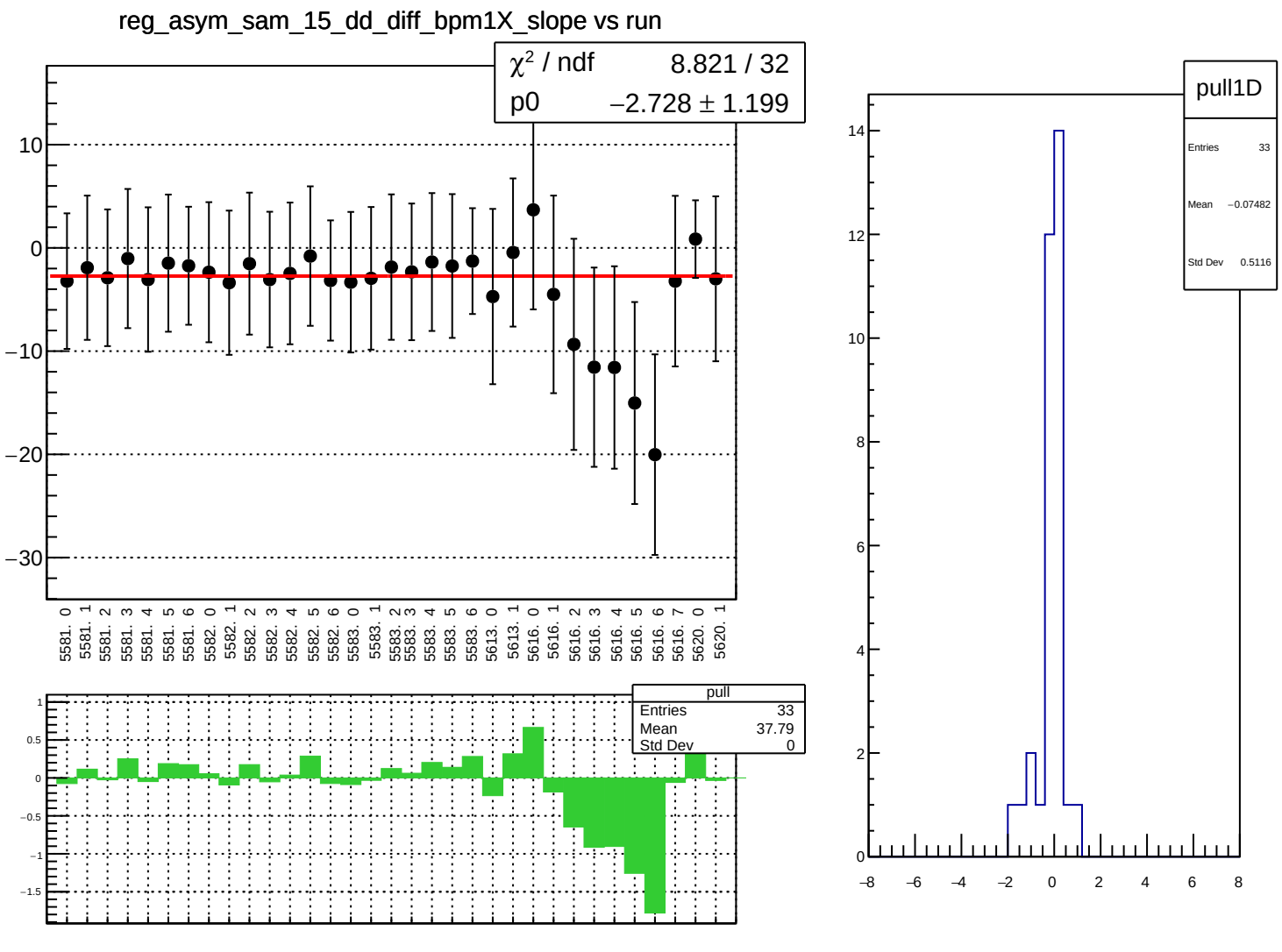

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 7332 / 32
p0 −5.269 ± 0.3963
0
−200
−400
−600
−800
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 30.87
Std Dev 0
0
−5
−10
−15
−20
−25
−30
pull1D
Entries 33
Mean 1.493
Std Dev 1.456
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

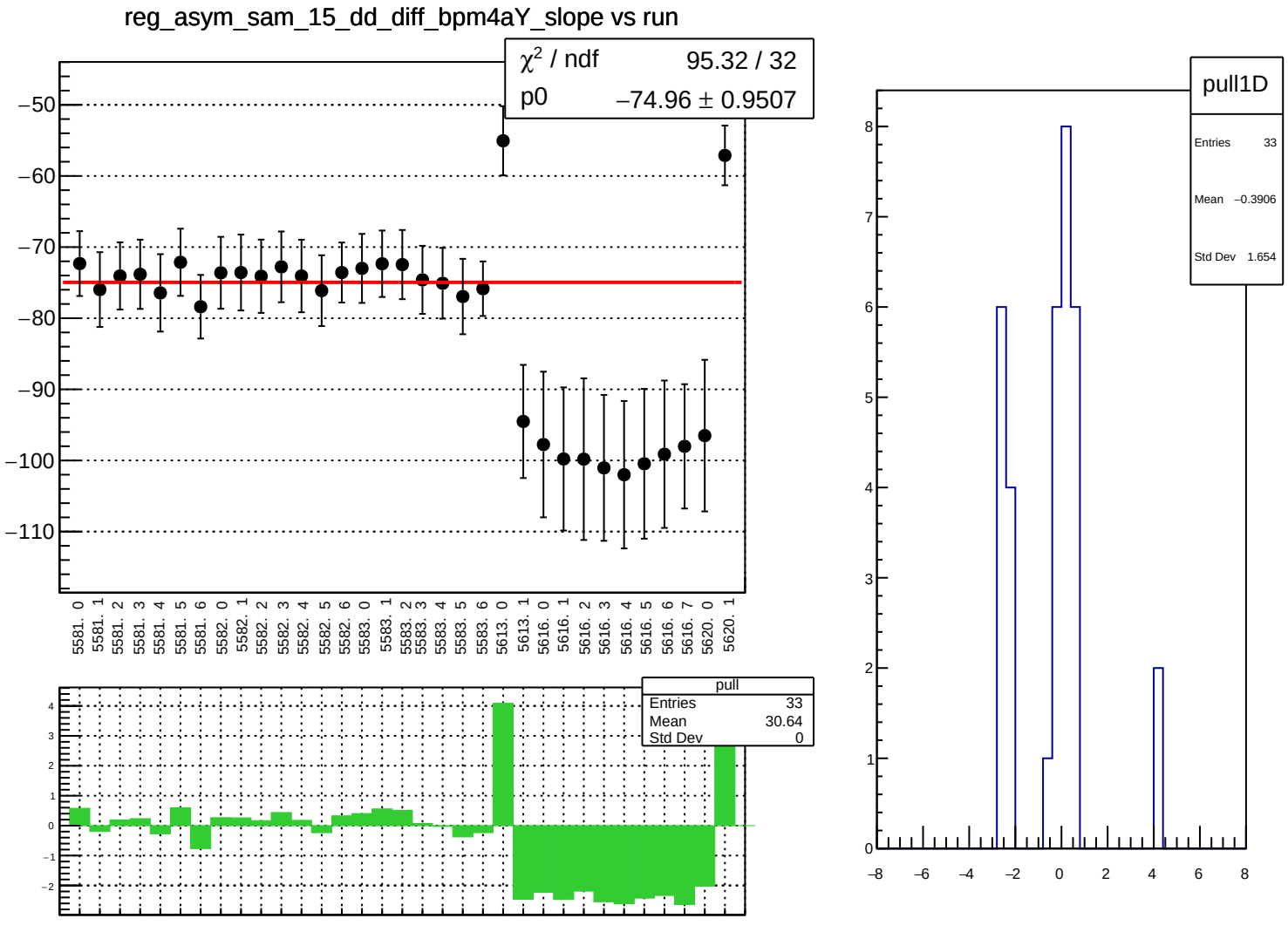

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 235.3 / 32
p0 −8.421 ± 0.295
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 89.14
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 33
Mean −0.1937
Std Dev 2.161
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

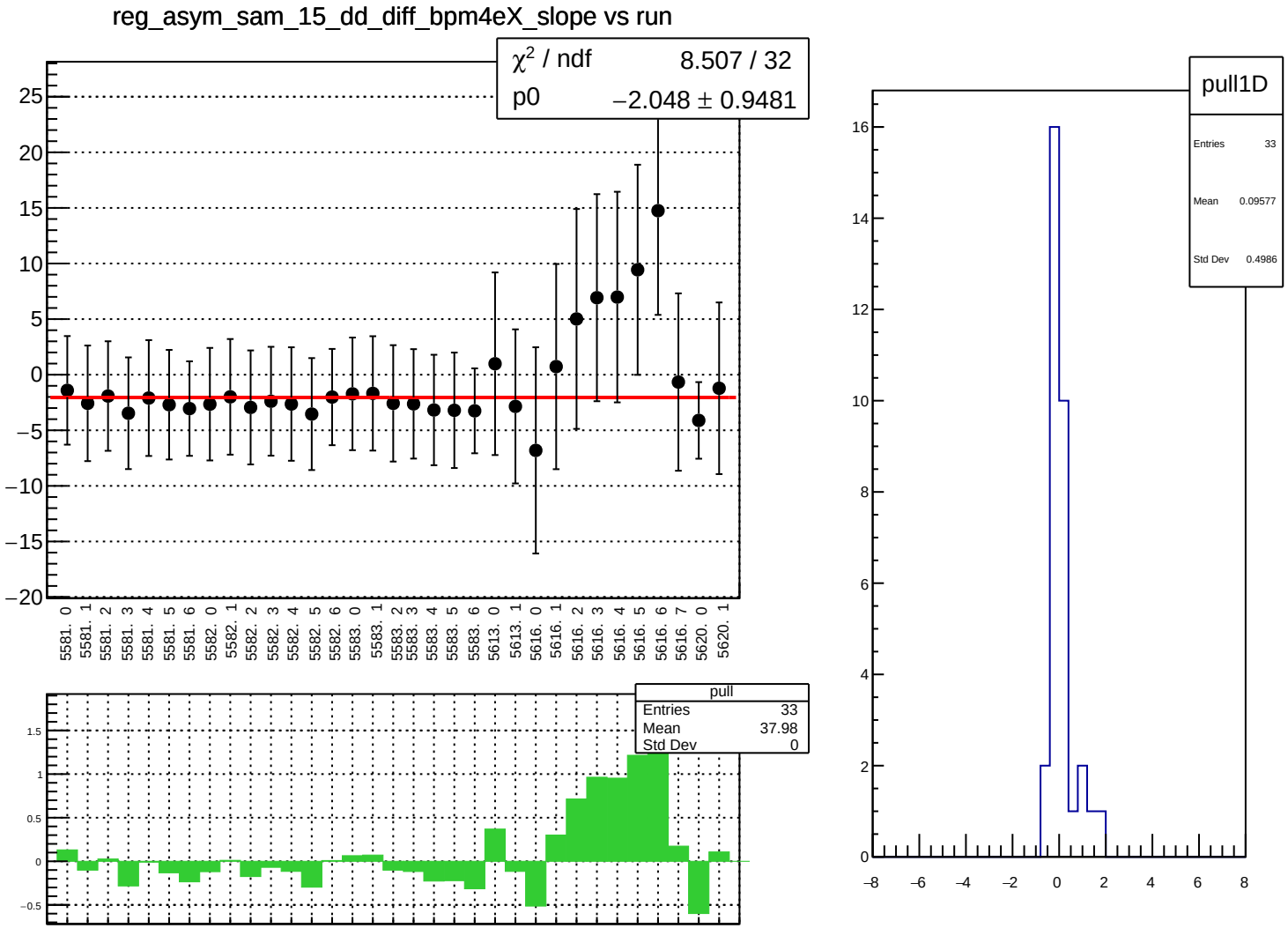

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 6522 / 32
p0 −4.756 ± 0.3032
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.98
Std Dev 0
30
25
20
15
10
5
0
pull1D
Entries 33
Mean −1.052
Std Dev 1.125
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

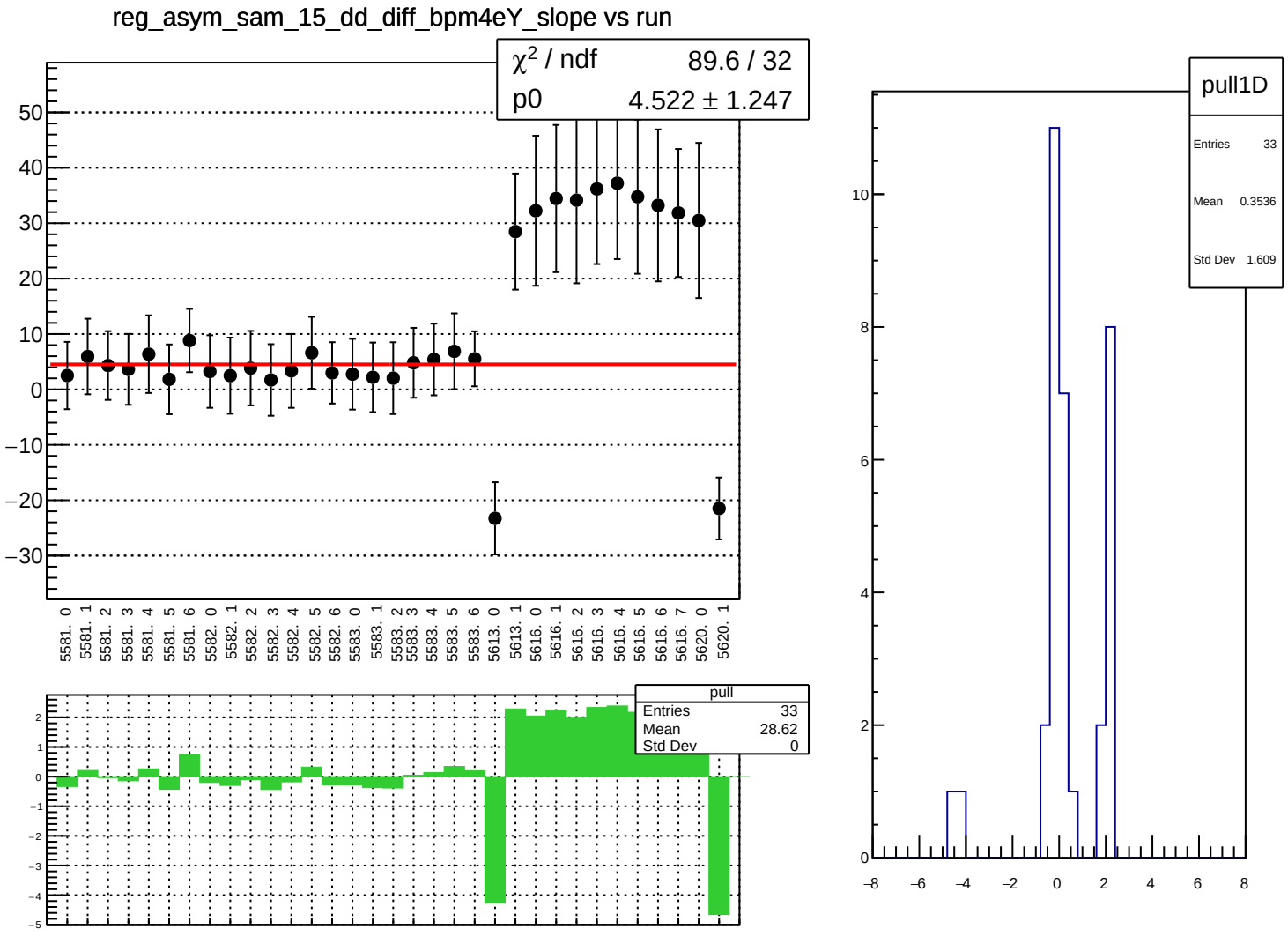

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 215.8 / 32
p0 −1.55 ± 0.3868
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 14.48
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 33
Mean 0.1817
Std Dev 1.427
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

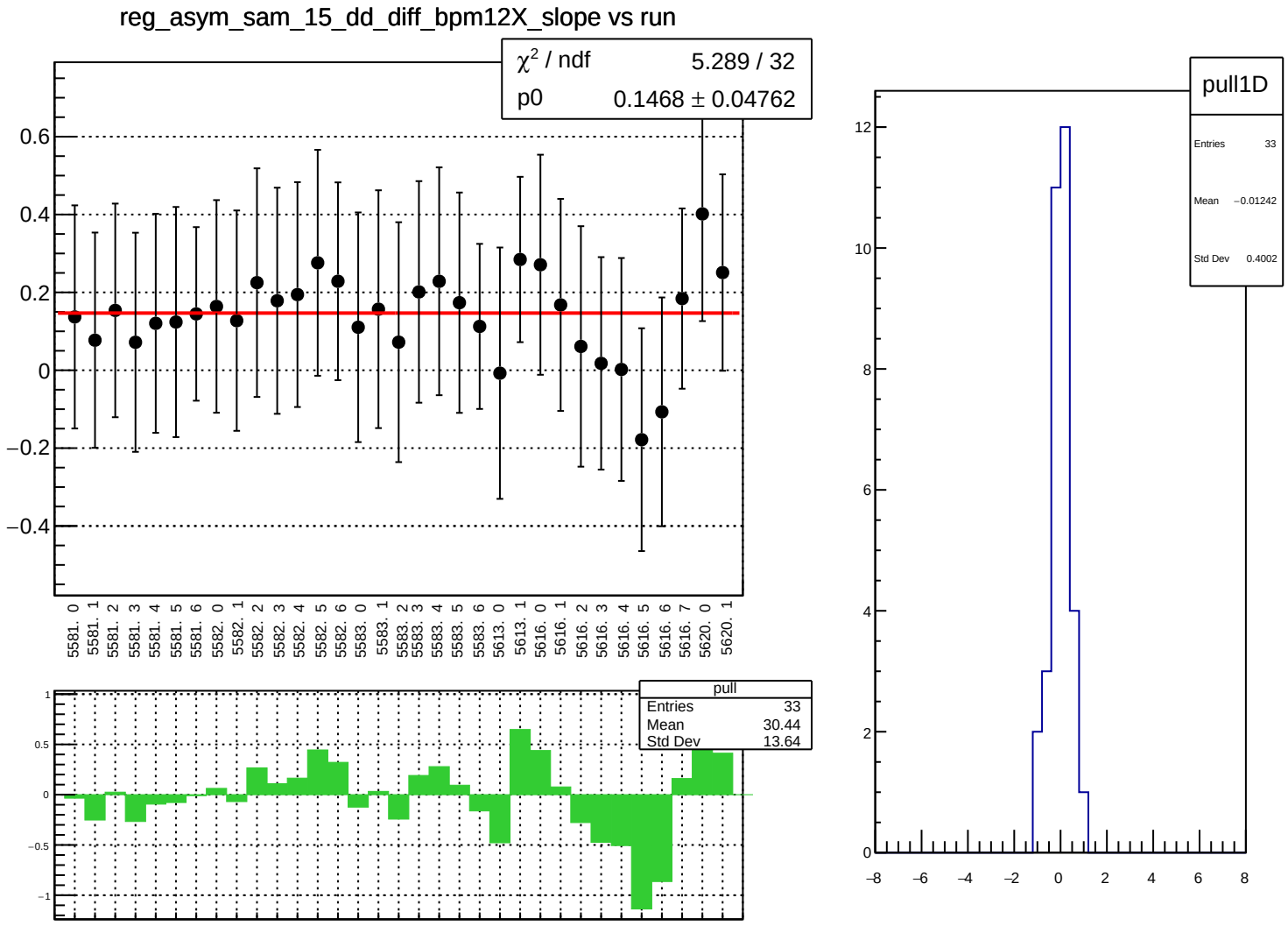

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 7043 / 32
p0 0.04362 ± 0.01628
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.78
Std Dev 0
5
0
−5
−10
−15
−20
−25
−30
pull1D
Entries 33
Mean 2.874
Std Dev 2.674
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

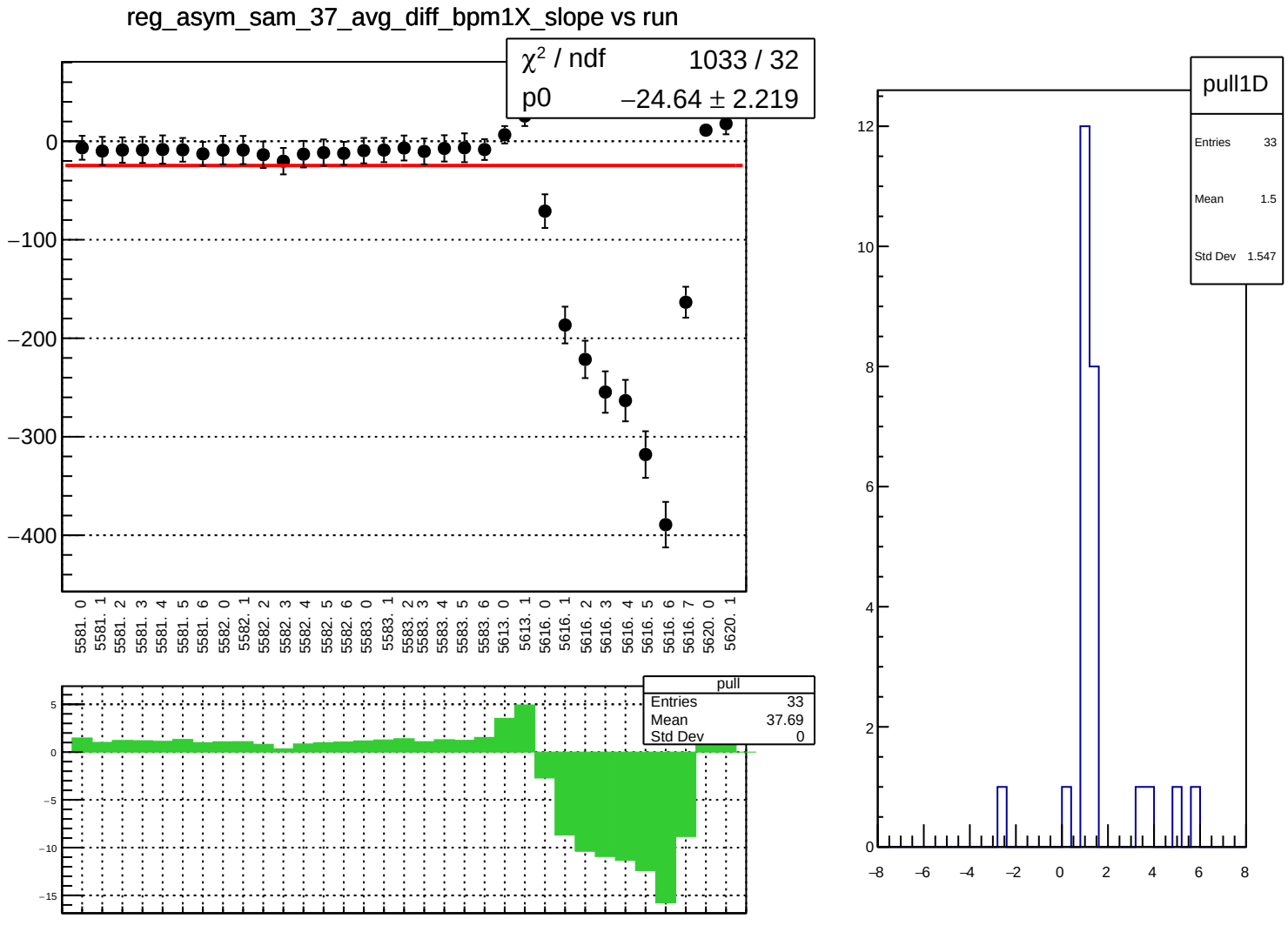

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 8.821 / 32
p0 −2.728 ± 1.199
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.79
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.07482
Std Dev 0.5116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

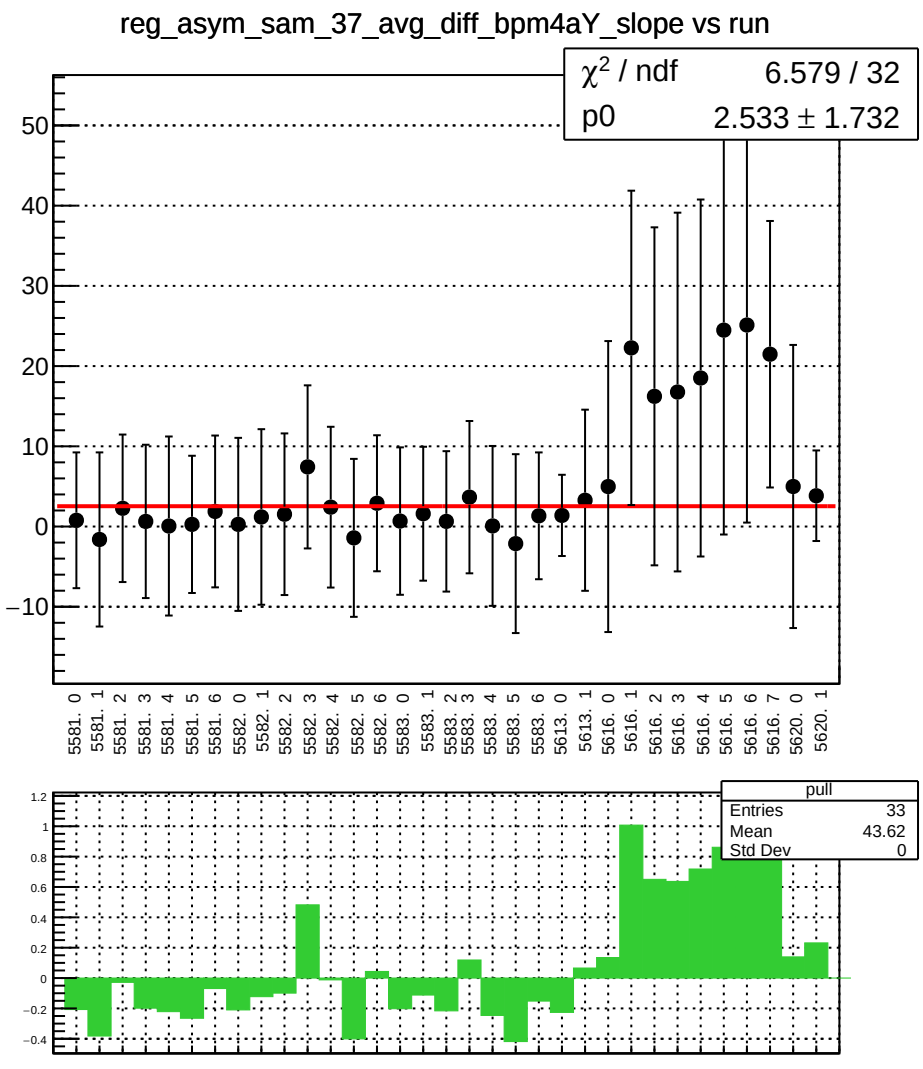

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 95.32 / 32
p0 −74.96 ± 0.9507
−50
−60
−70
−80
−90
−100
−110
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 30.64
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.3906
Std Dev 1.654
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

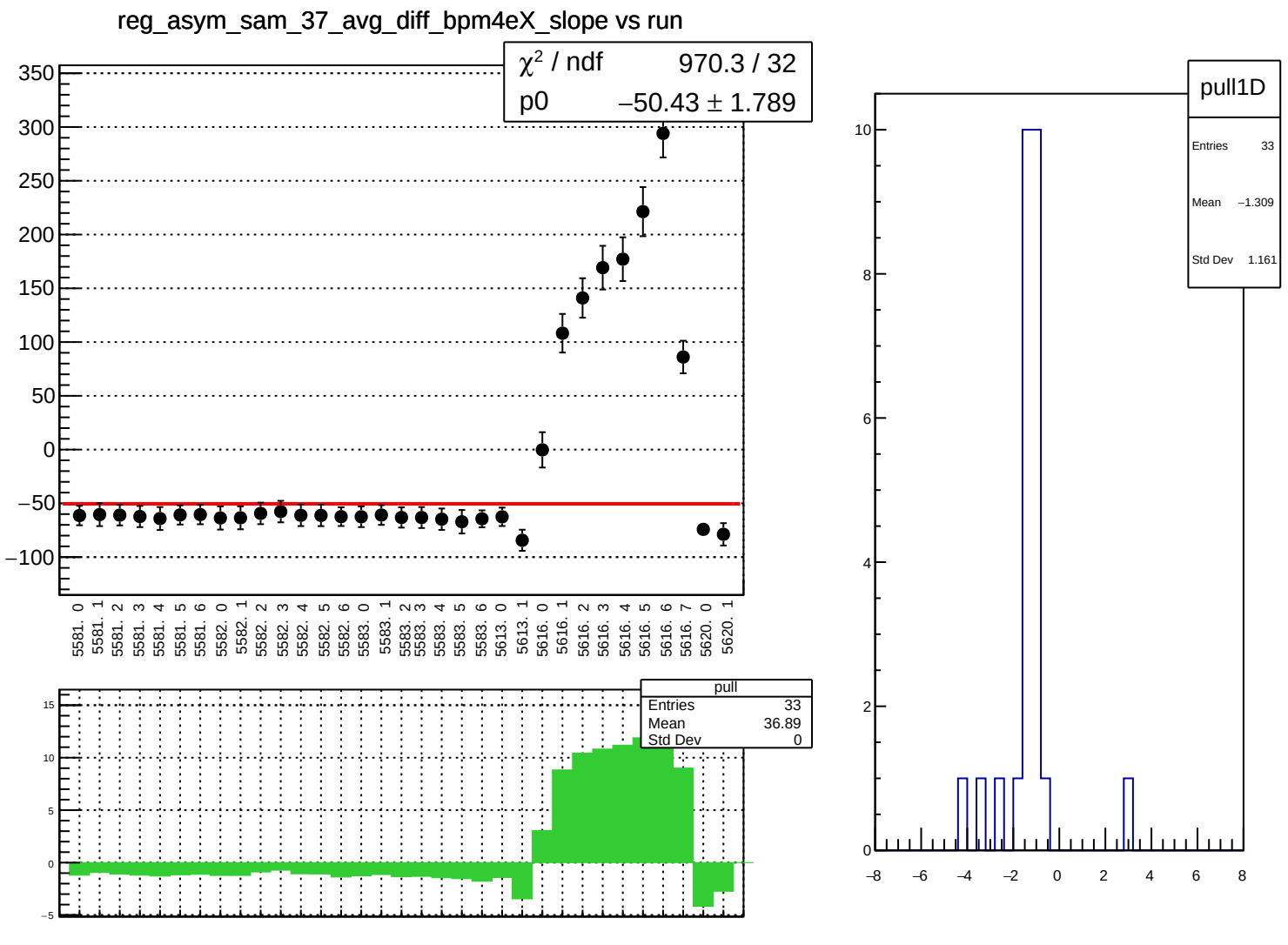

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.507 / 32
p0 −2.048 ± 0.9481
25
20
15
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.98
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 33
Mean 0.09577
Std Dev 0.4986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

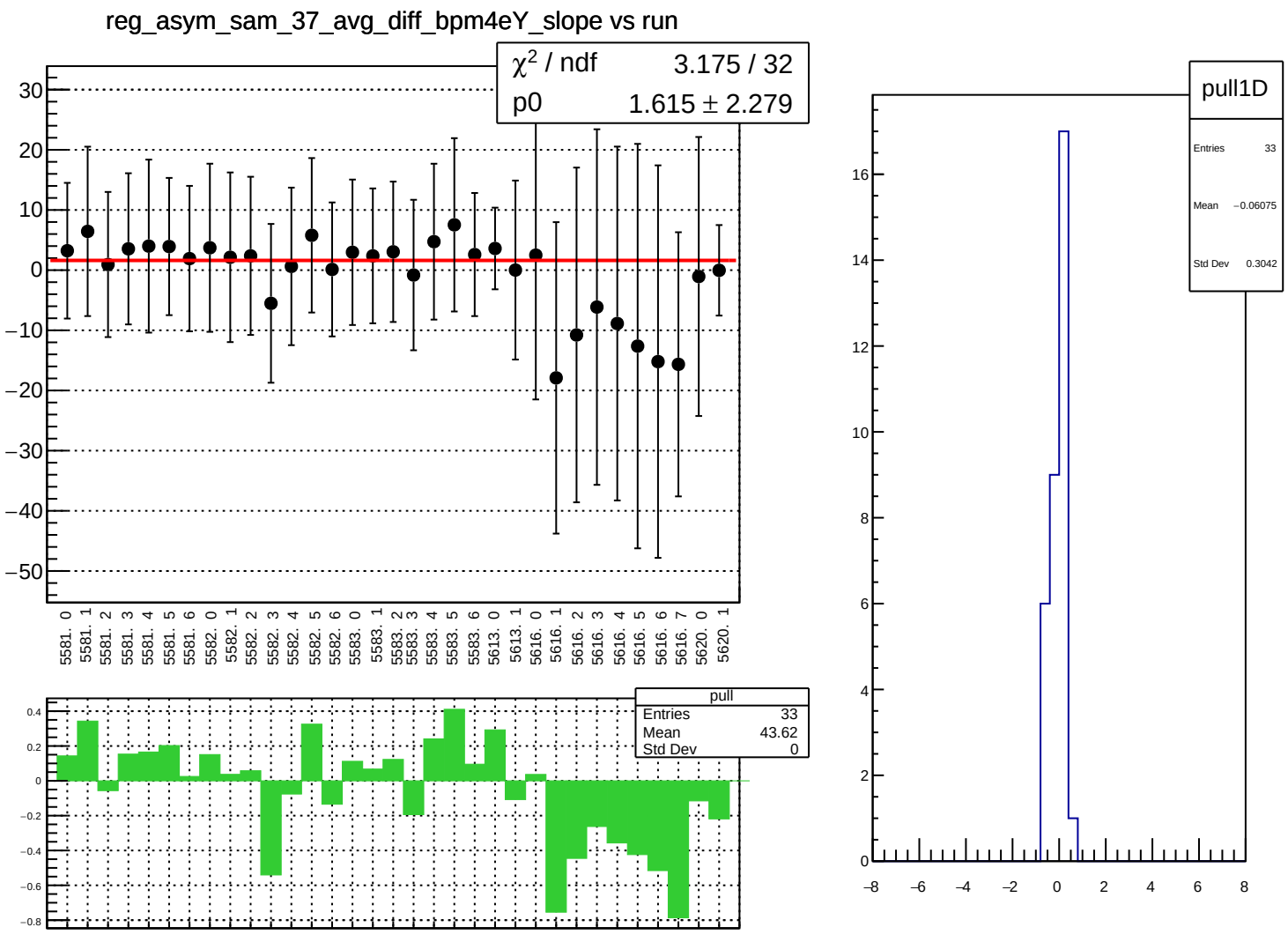

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.6 / 32
p0 4.522 ± 1.247
50
40
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.62
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 33
Mean 0.3536
Std Dev 1.609
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

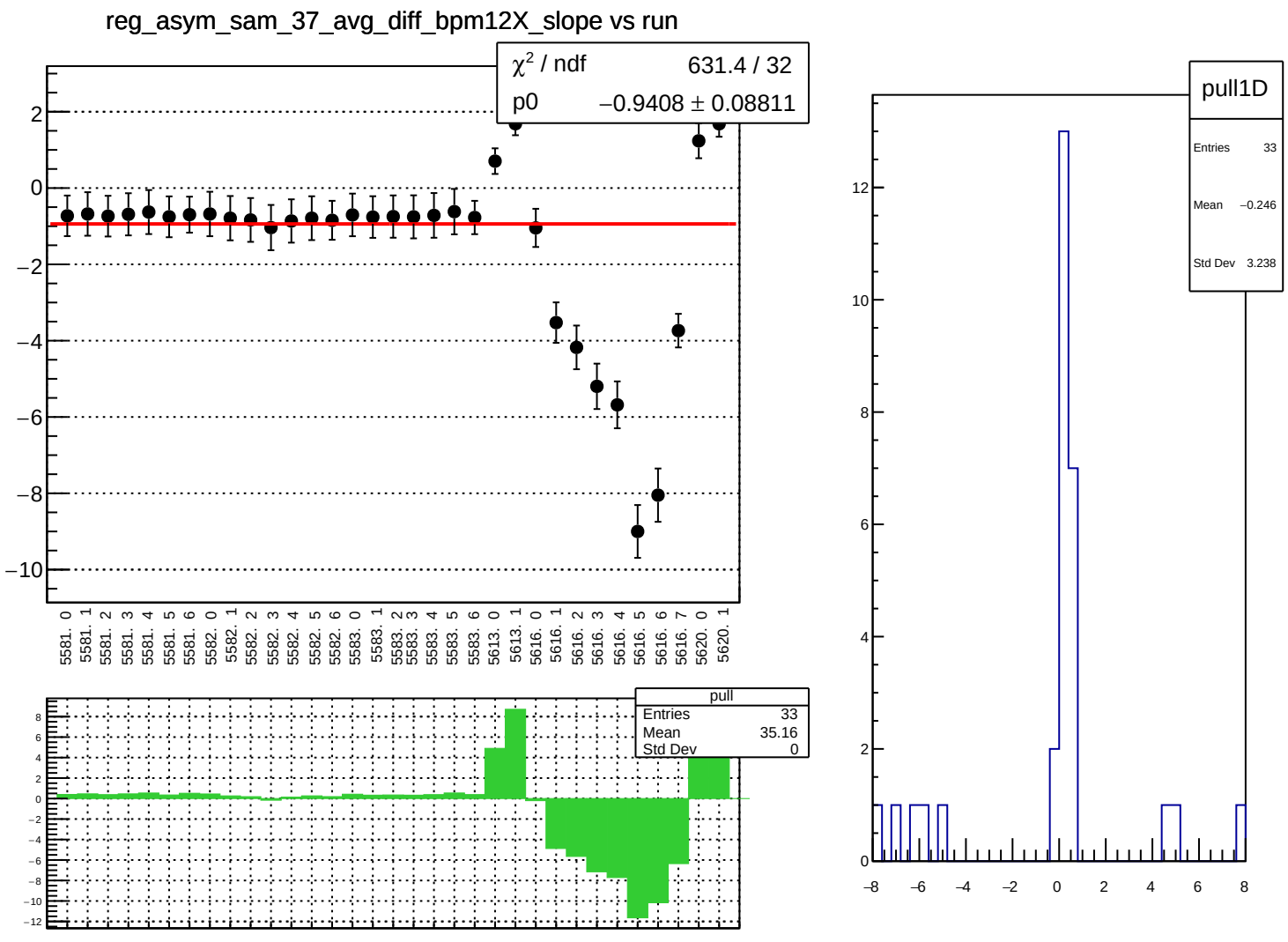

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 5.289 / 32
p0 0.1468 ± 0.04762
0.6
0.4
0.2
0
−0.2
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 30.44
Std Dev 13.64
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.01242
Std Dev 0.4002
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

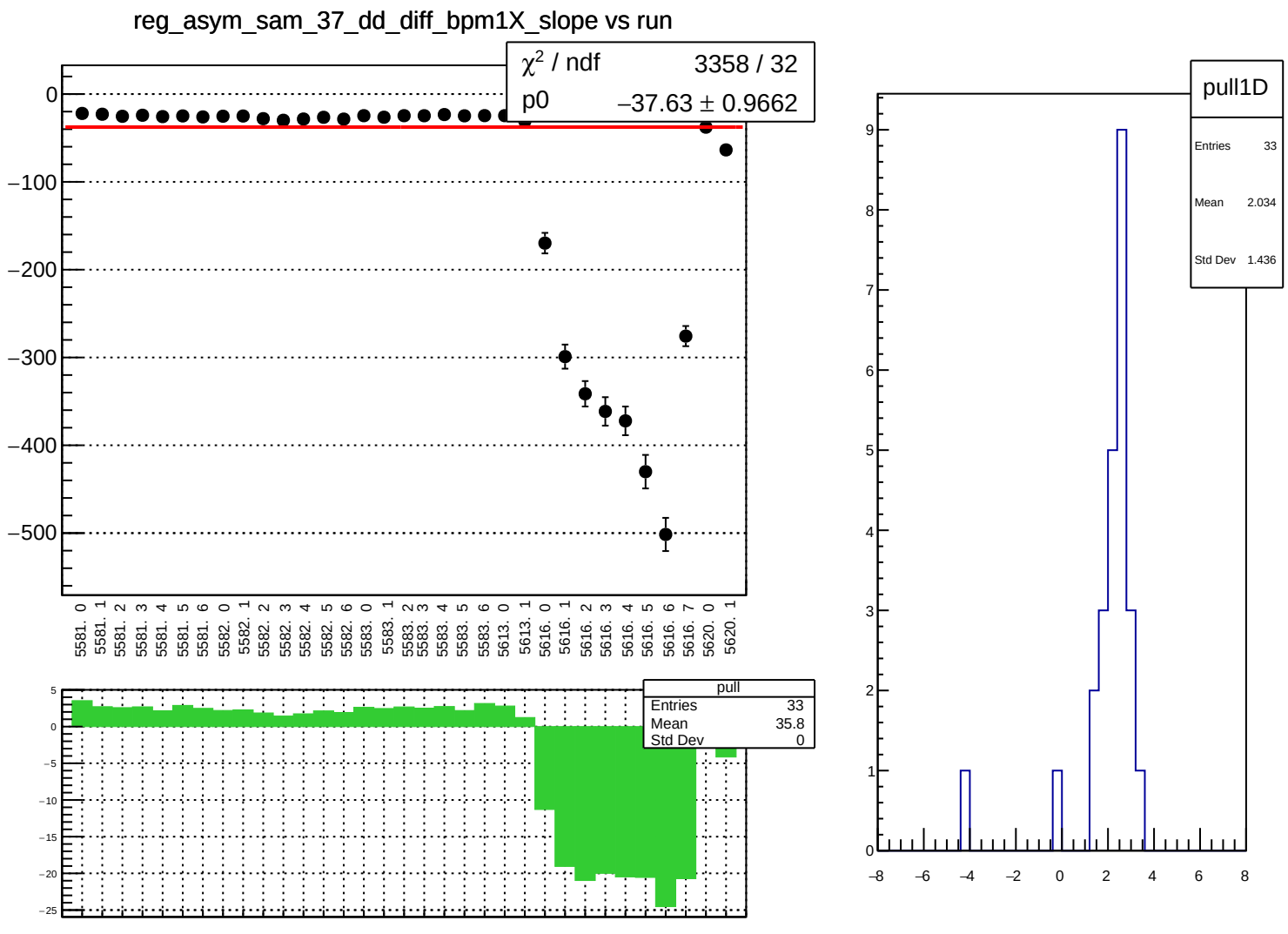

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 1033 / 32
p0 −24.64 ± 2.219
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.69
Std Dev 0
5
0
−5
−10
−15
pull1D
Entries 33
Mean 1.5
Std Dev 1.547
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

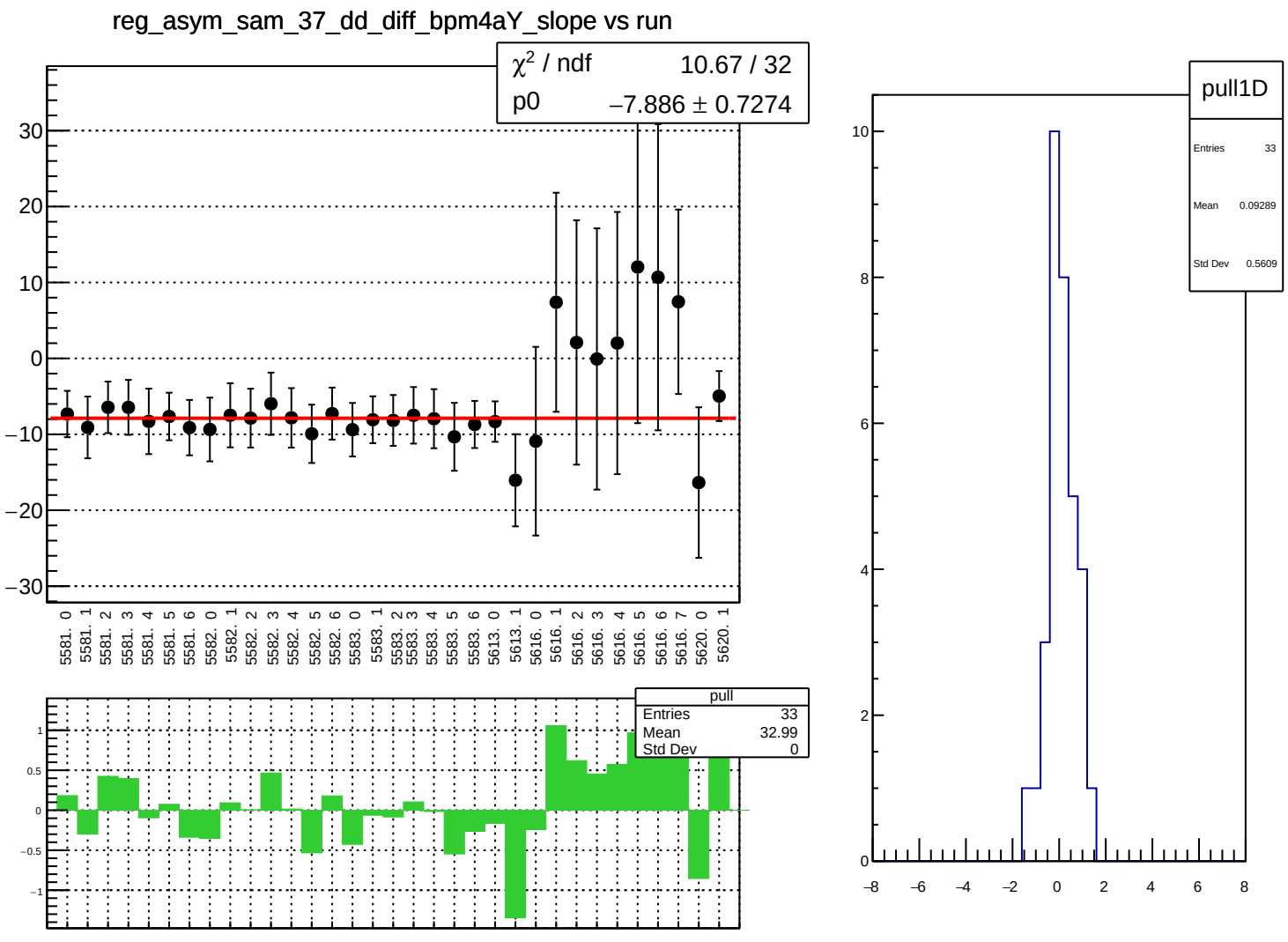

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.579 / 32
p0 2.533 ± 1.732
50
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 43.62
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 33
Mean 0.1019
Std Dev 0.4347
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

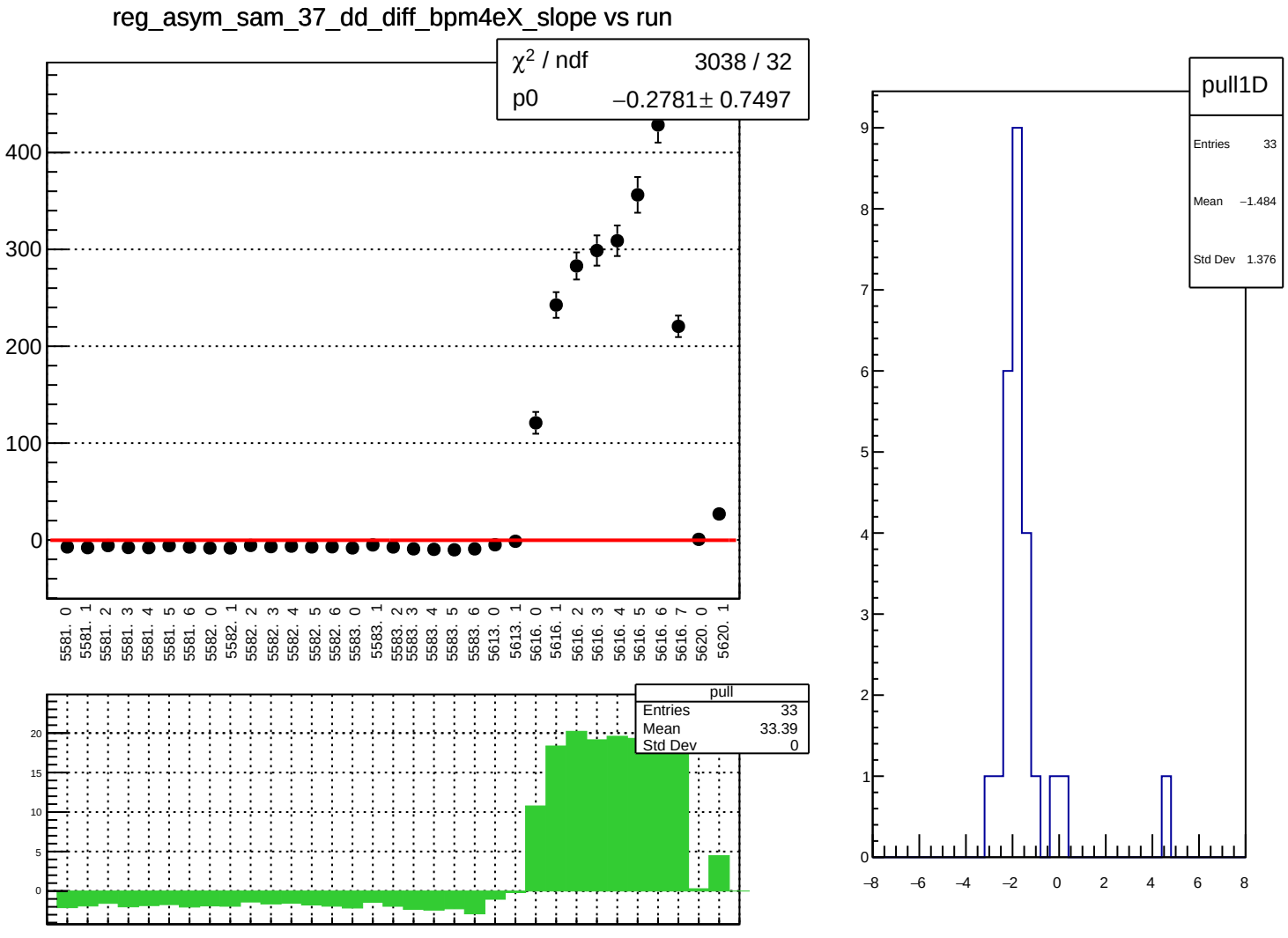

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 970.3 / 32
p0 −50.43 ± 1.789
pull
Entries 33
Mean 36.89
Std Dev 0
pull1D
Entries 33
Mean −1.309
Std Dev 1.161

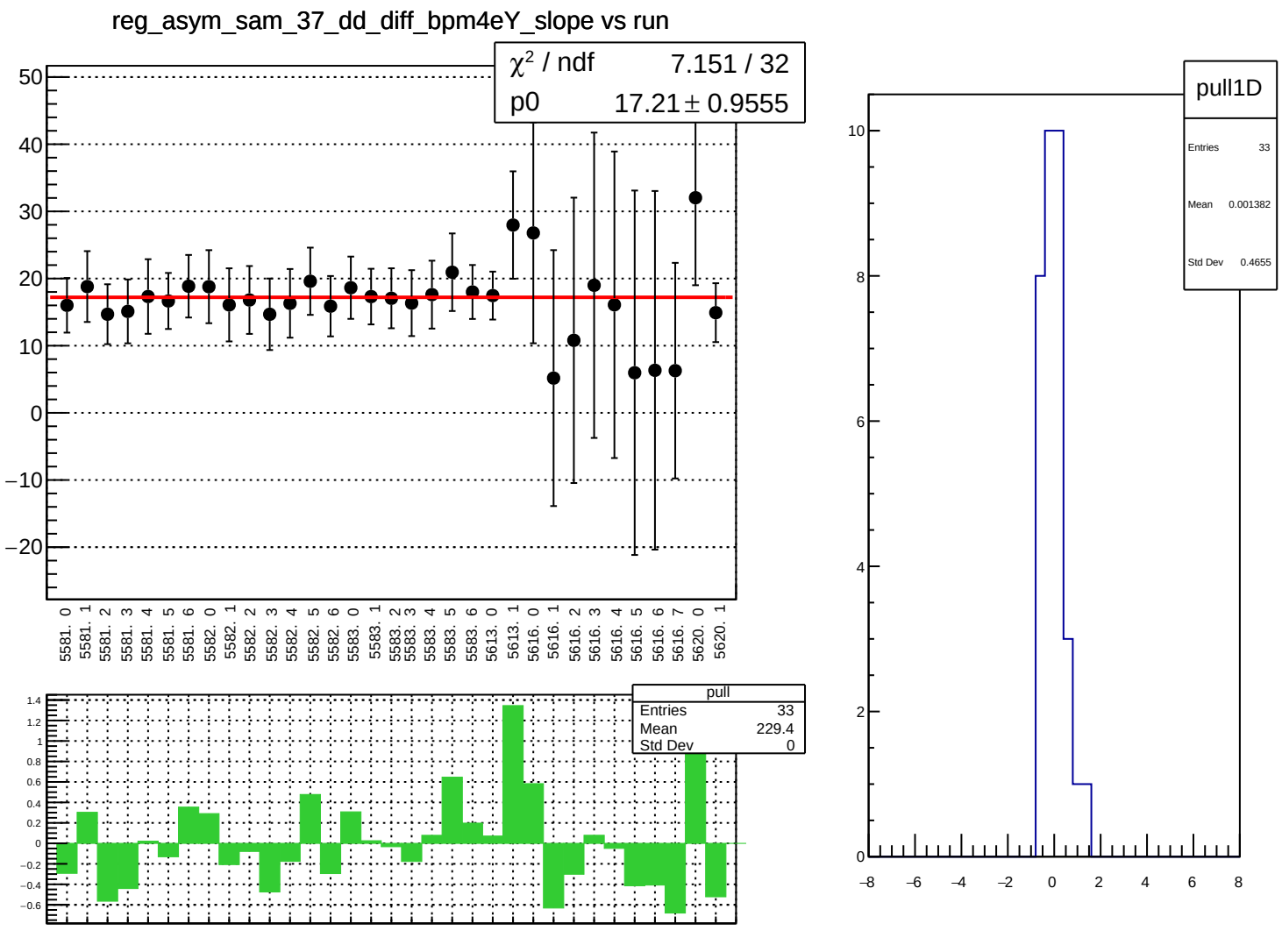

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.175 / 32
p0 1.615 ± 2.279
30
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 43.62
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 33
Mean −0.06075
Std Dev 0.3042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

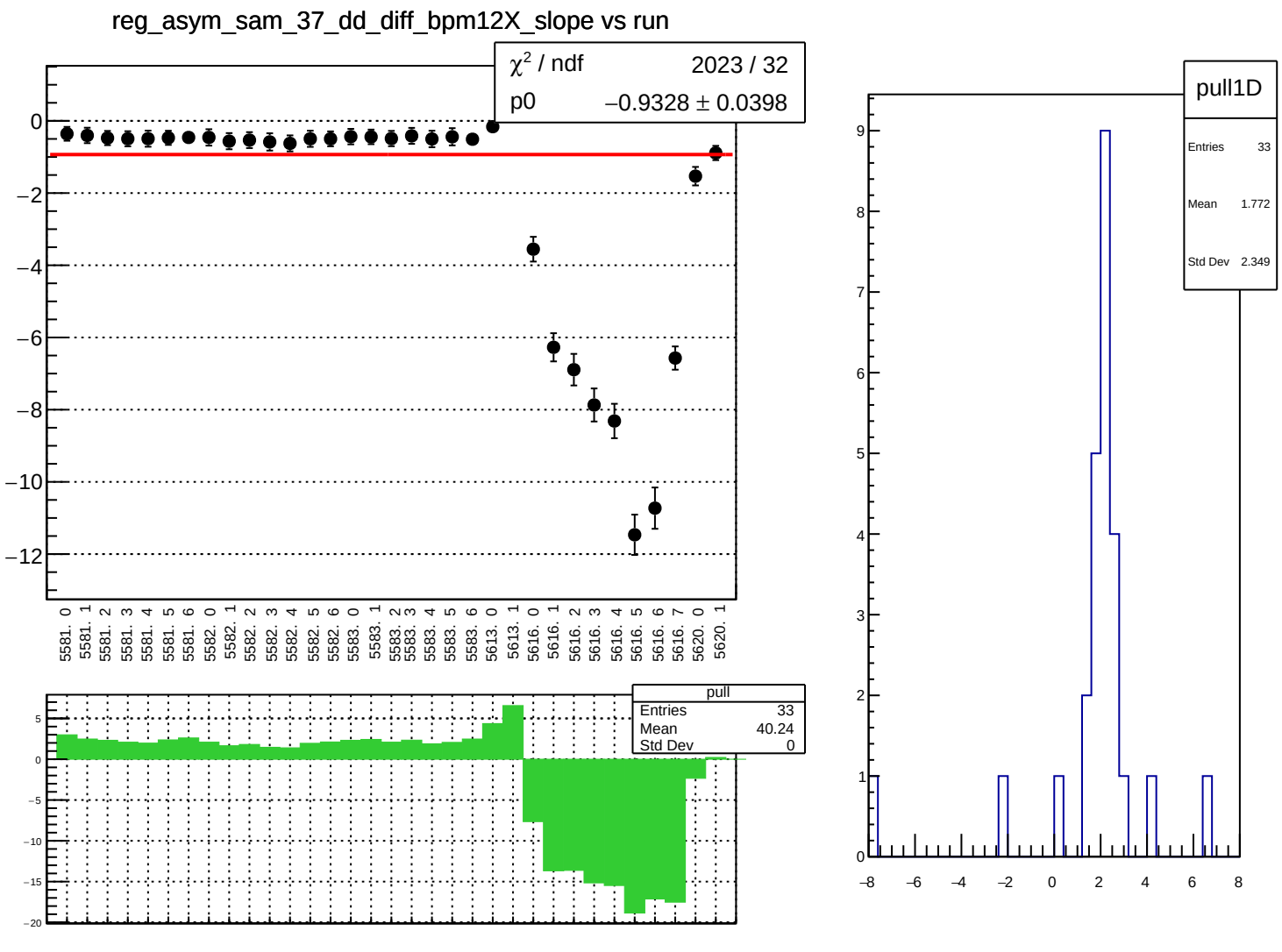

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 631.4 / 32
p0 −0.9408 ± 0.08811
pull
Entries 33
Mean 35.16
Std Dev 0
pull1D
Entries 33
Mean −0.246
Std Dev 3.238

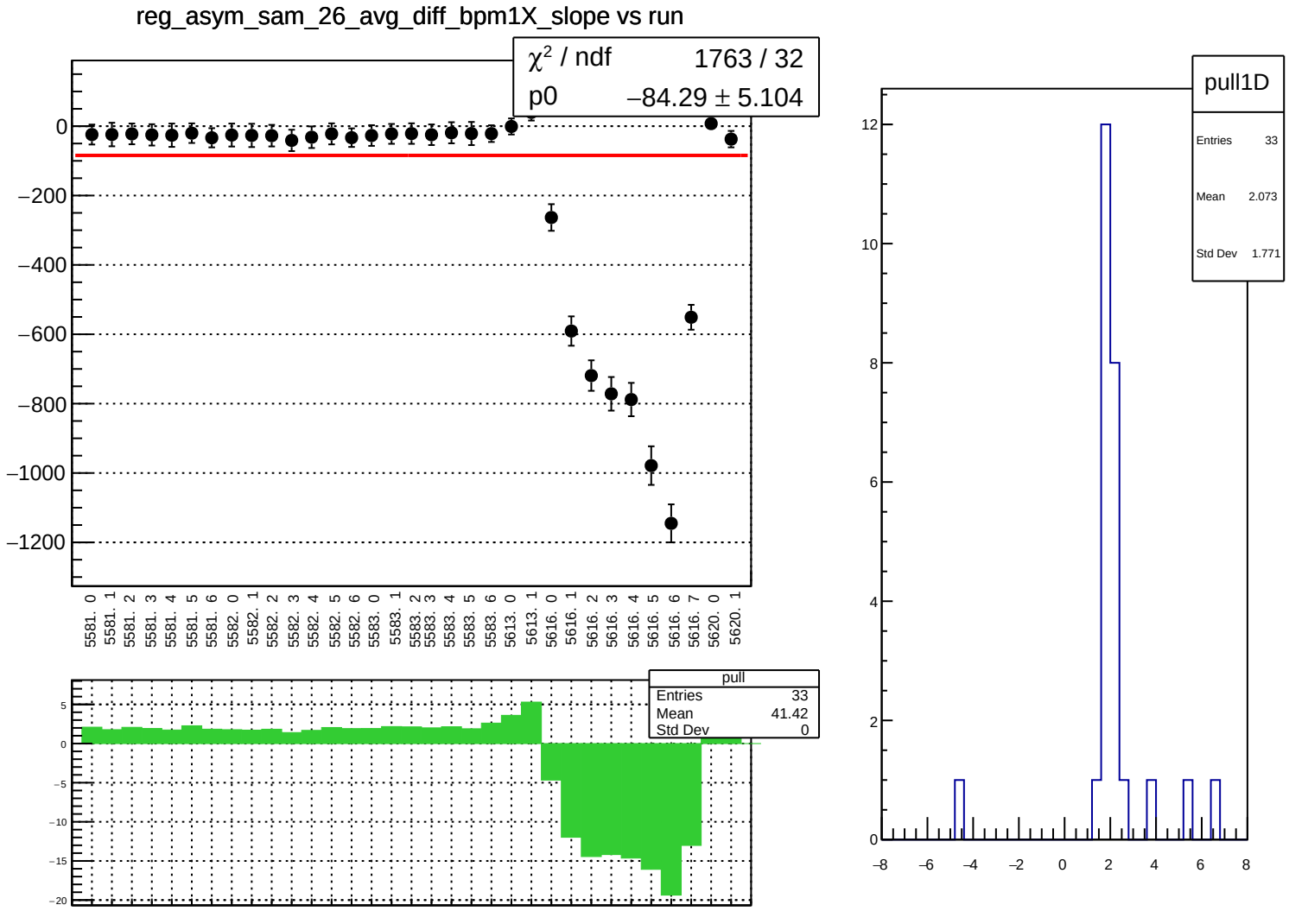

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 3358 / 32
p0 −37.63 ± 0.9662
0
−100
−200
−300
−400
−500
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.8
Std Dev 0
5
0
−5
−10
−15
−20
−25
pull1D
Entries 33
Mean 2.034
Std Dev 1.436
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

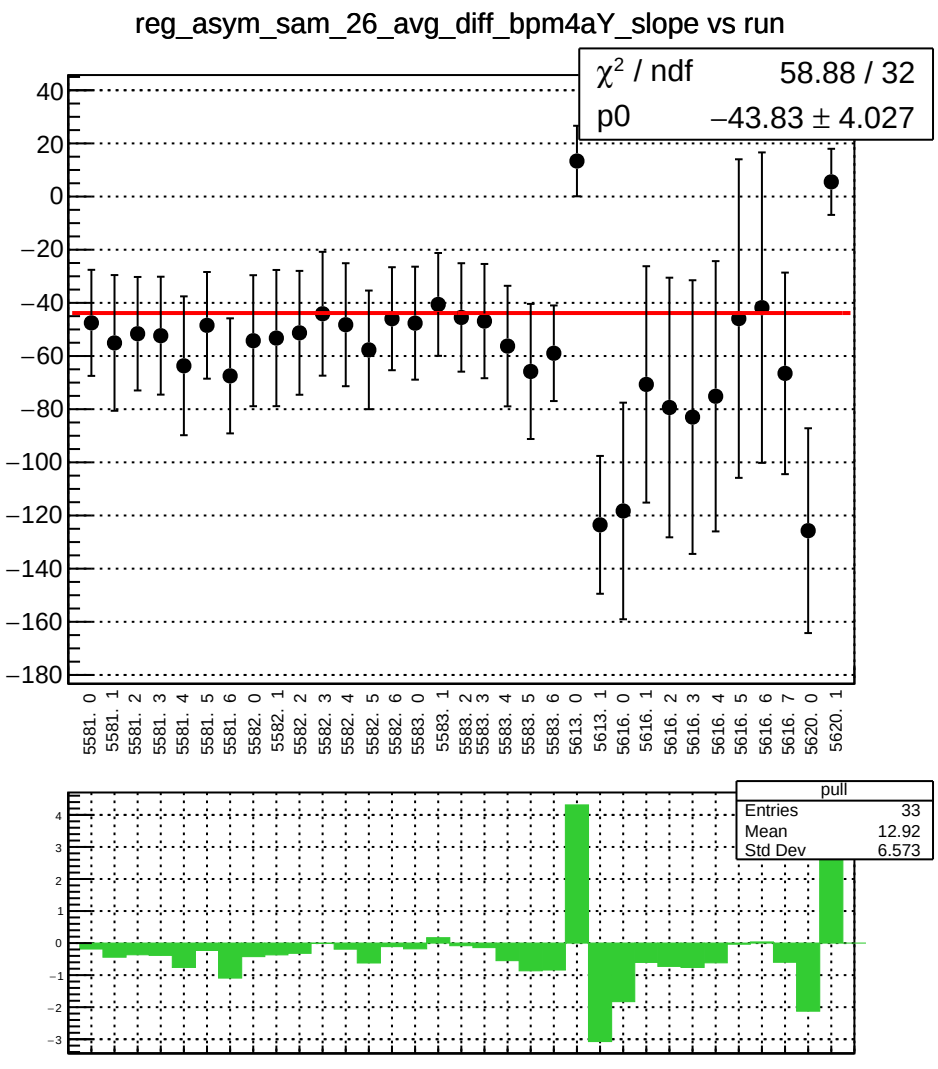

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.67 / 32
p0 −7.886 ± 0.7274
30
20
10
0
−10
−20
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 32.99
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.09289
Std Dev 0.5609
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

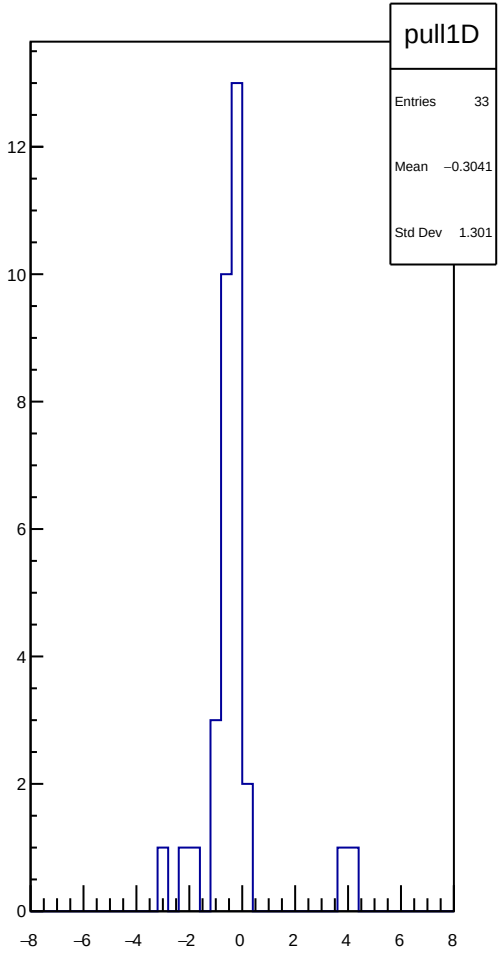

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 3038 / 32
p0 −0.2781± 0.7497
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 33.39
Std Dev 0
20
15
10
5
0
pull1D
Entries 33
Mean −1.484
Std Dev 1.376
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

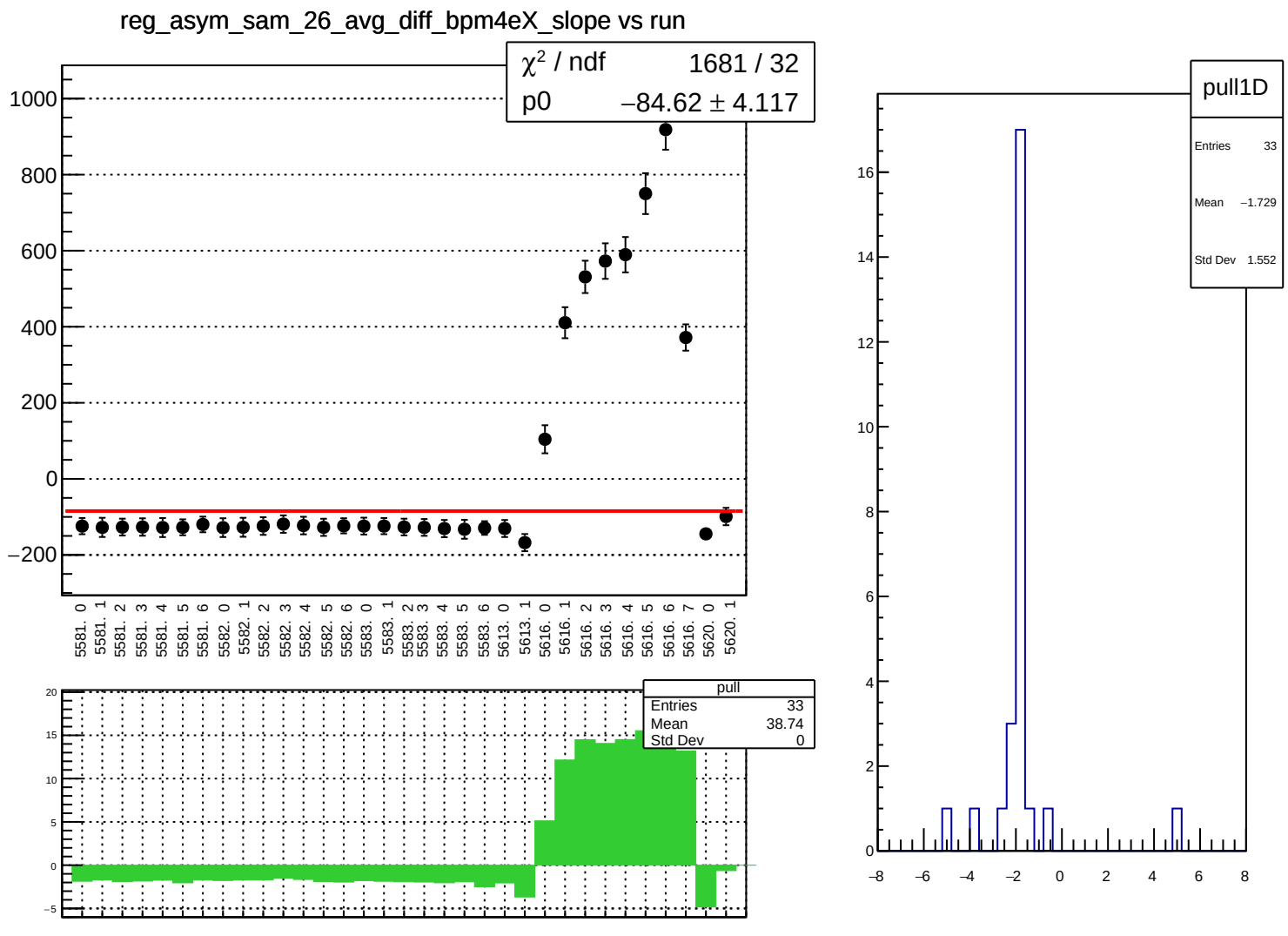

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.151 / 32
p0 17.21 ± 0.9555
50
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 229.4
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 33
Mean 0.001382
Std Dev 0.4655
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

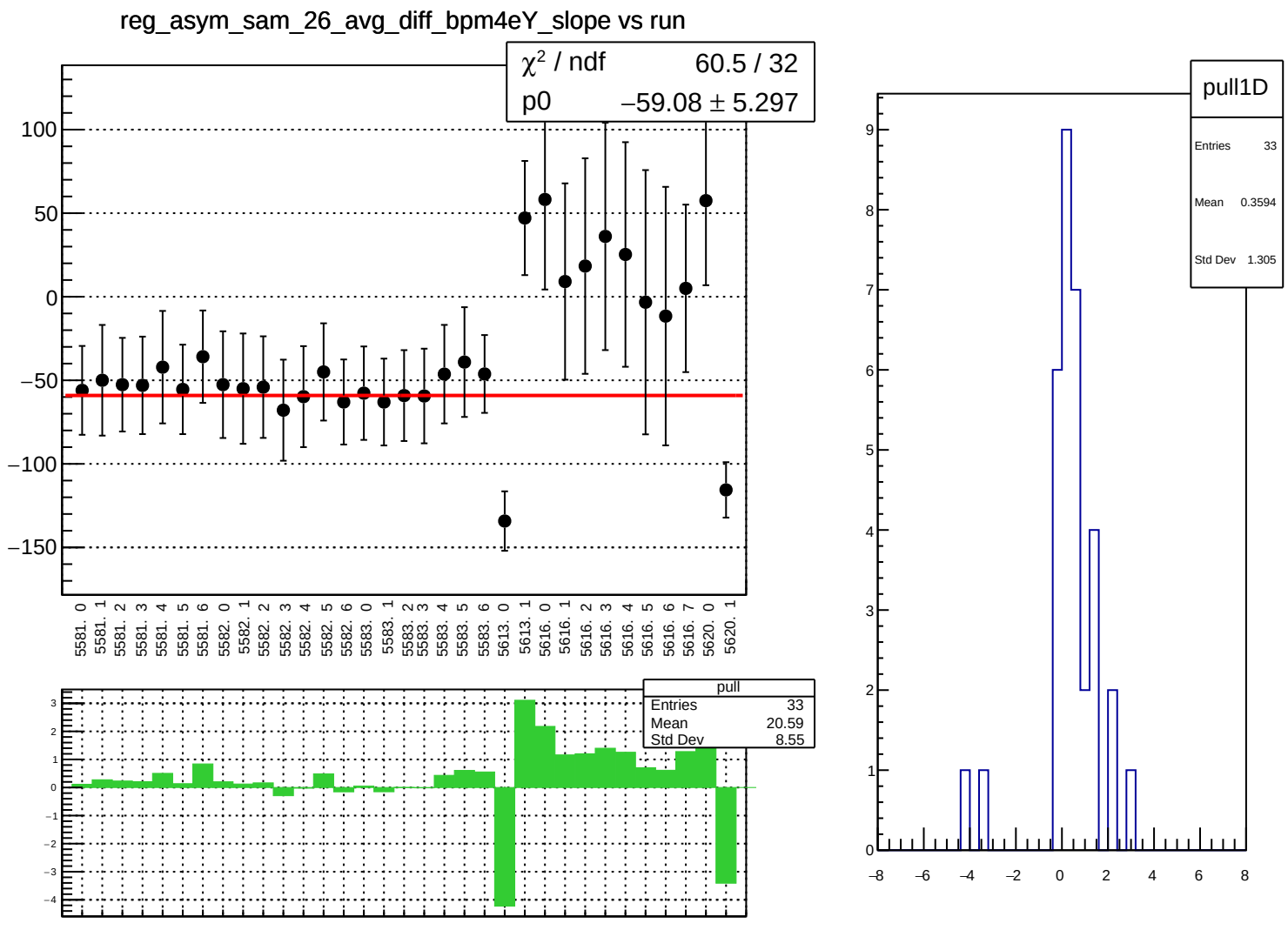

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2023 / 32
p0 −0.9328 ± 0.0398
pull
Entries 33
Mean 40.24
Std Dev 0
pull1D
Entries 33
Mean 1.772
Std Dev 2.349

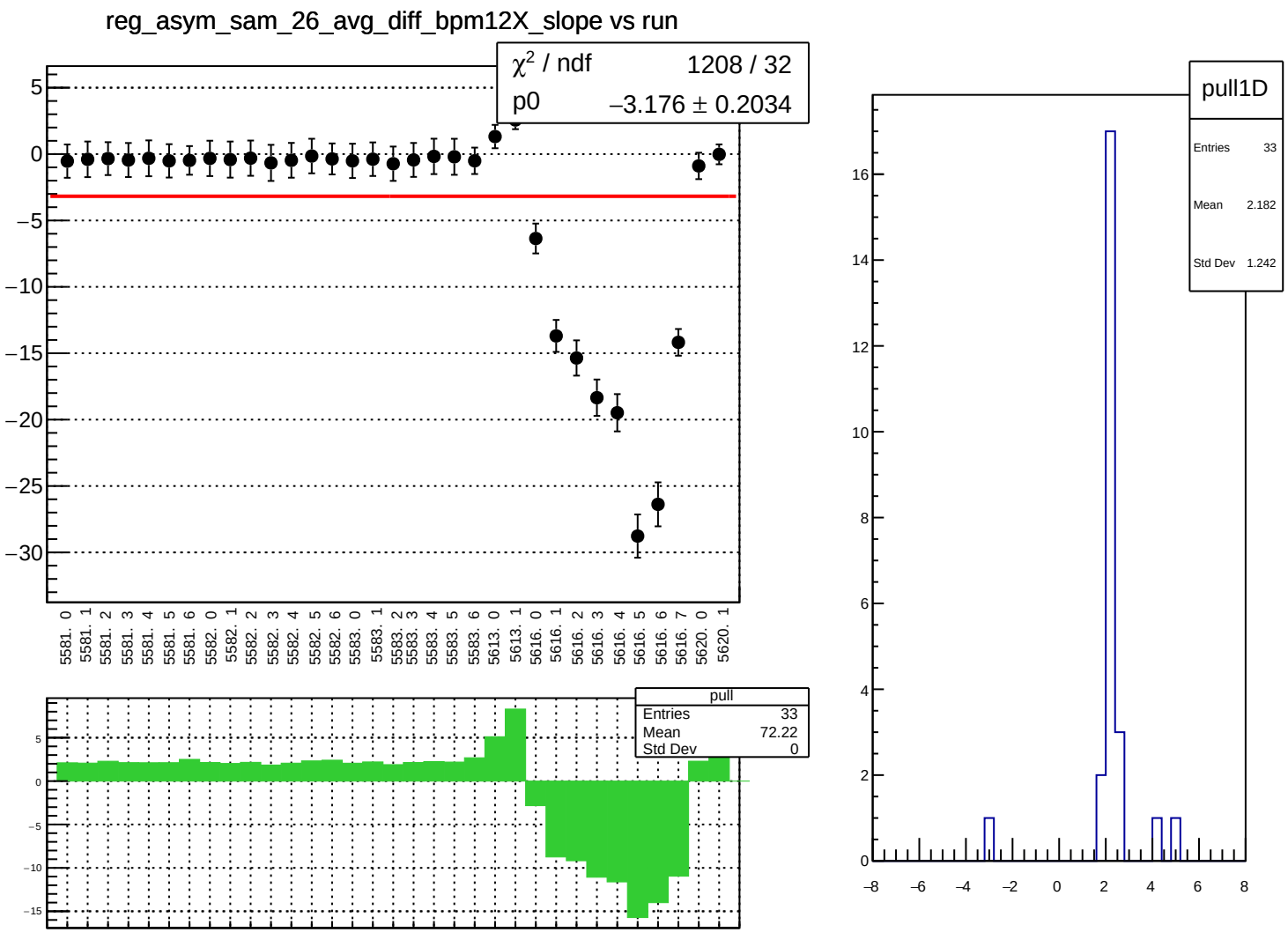

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 1763 / 32
p0 −84.29 ± 5.104
0
−200
−400
−600
−800
−1000
−1200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 41.42
Std Dev 0
5
0
−5
−10
−15
−20
pull1D
Entries 33
Mean 2.073
Std Dev 1.771
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

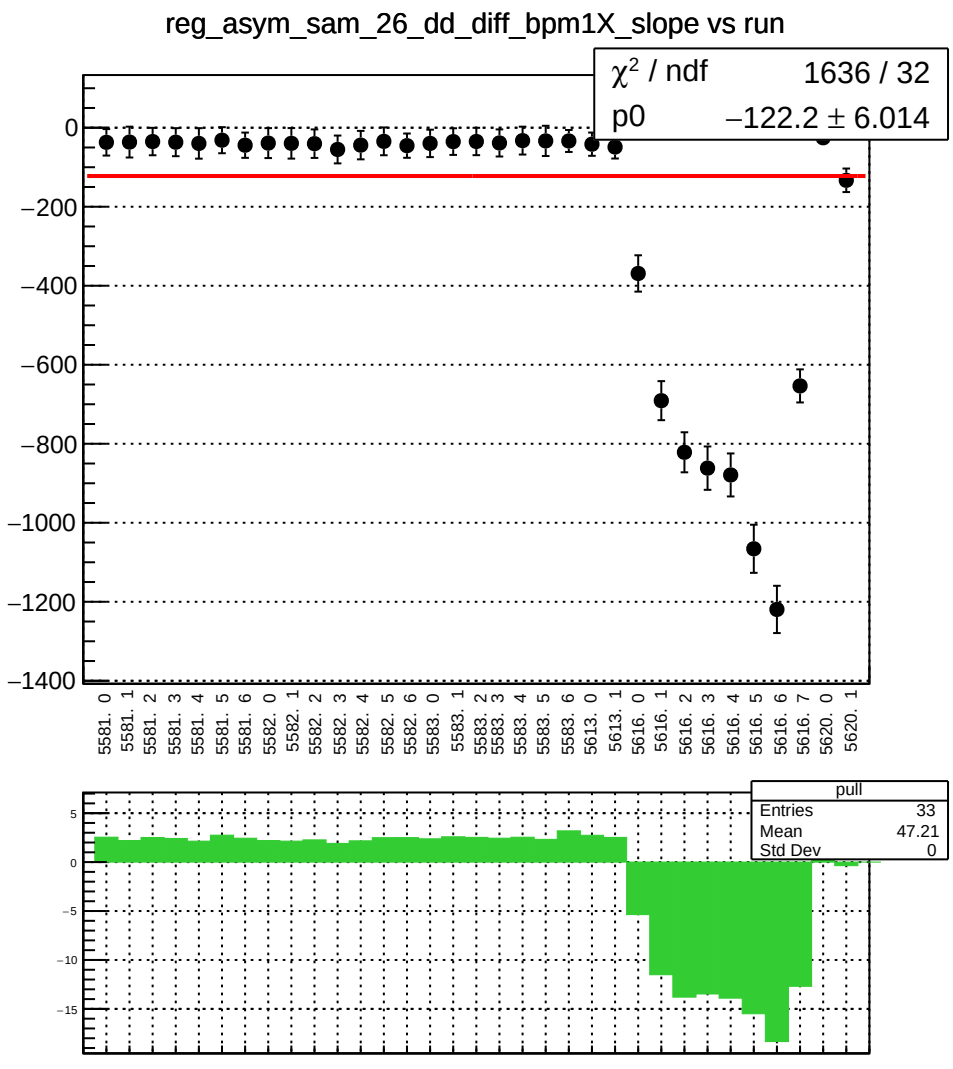

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 58.88 / 32
p0 −43.83 ± 4.027
pull
Entries 33
Mean 12.92
Std Dev 6.573

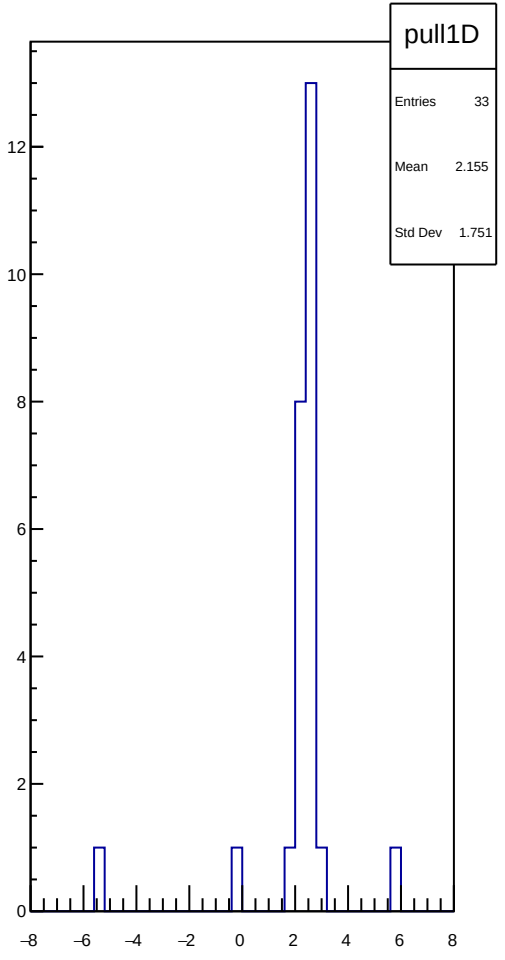

pull1D
Entries 33
Mean −0.3041
Std Dev 1.301

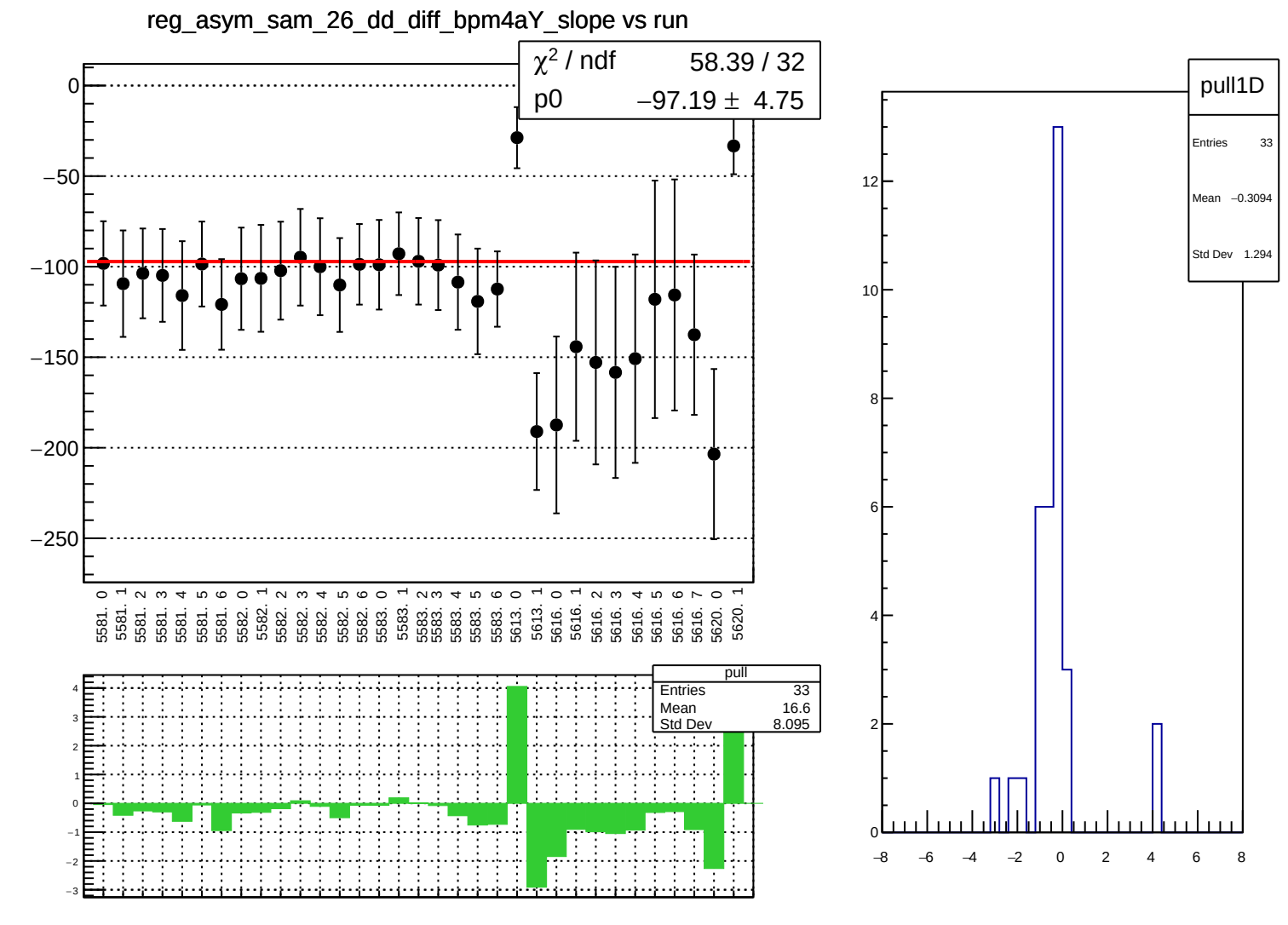

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 1681 / 32
p0 −84.62 ± 4.117
1000
800
600
400
200
0
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.74
Std Dev 0
20
15
10
5
0
−5
pull1D
Entries 33
Mean −1.729
Std Dev 1.552
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

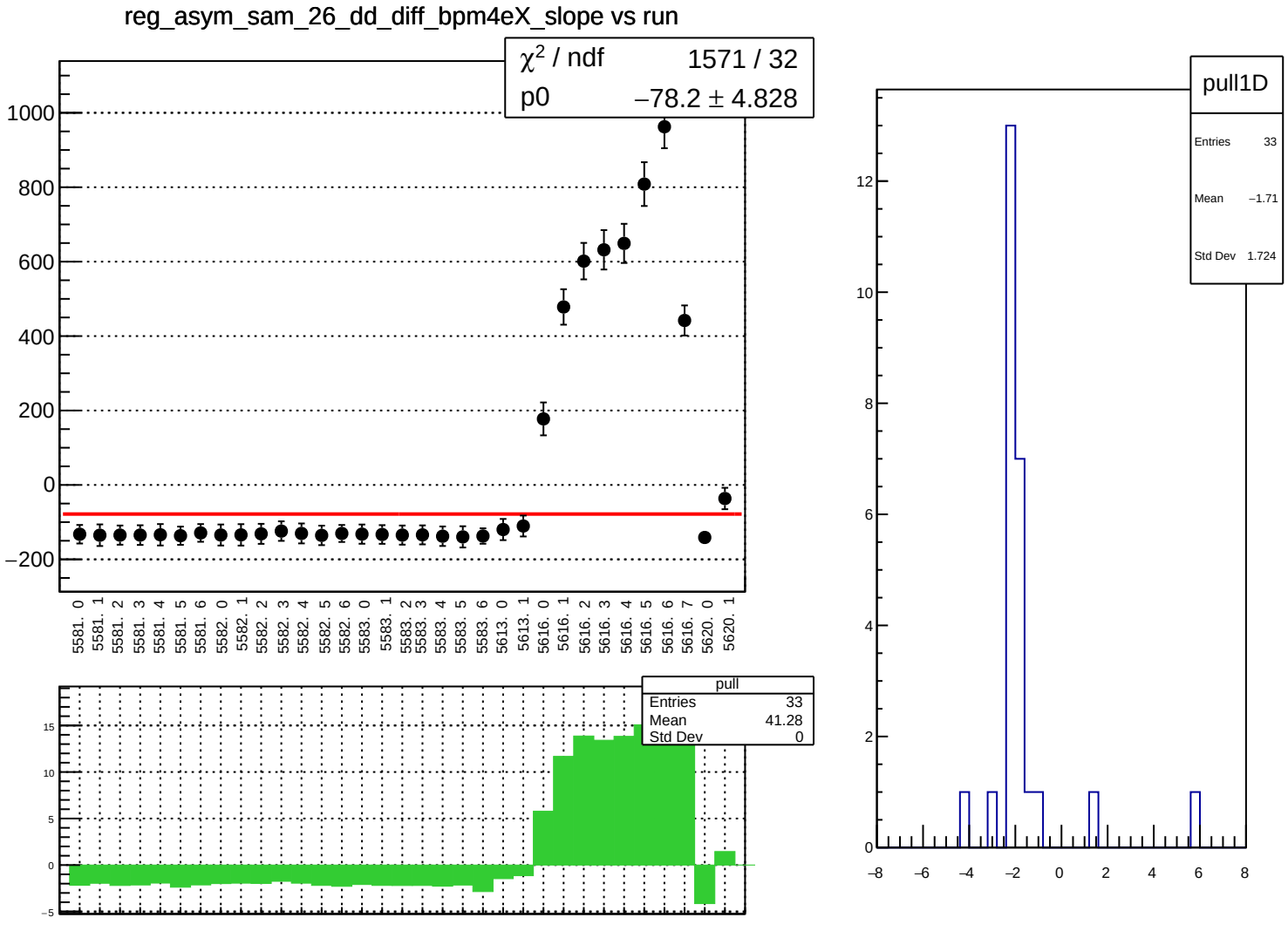

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 60.5 / 32
p0 −59.08 ± 5.297
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.59
Std Dev 8.55
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 33
Mean 0.3594
Std Dev 1.305
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

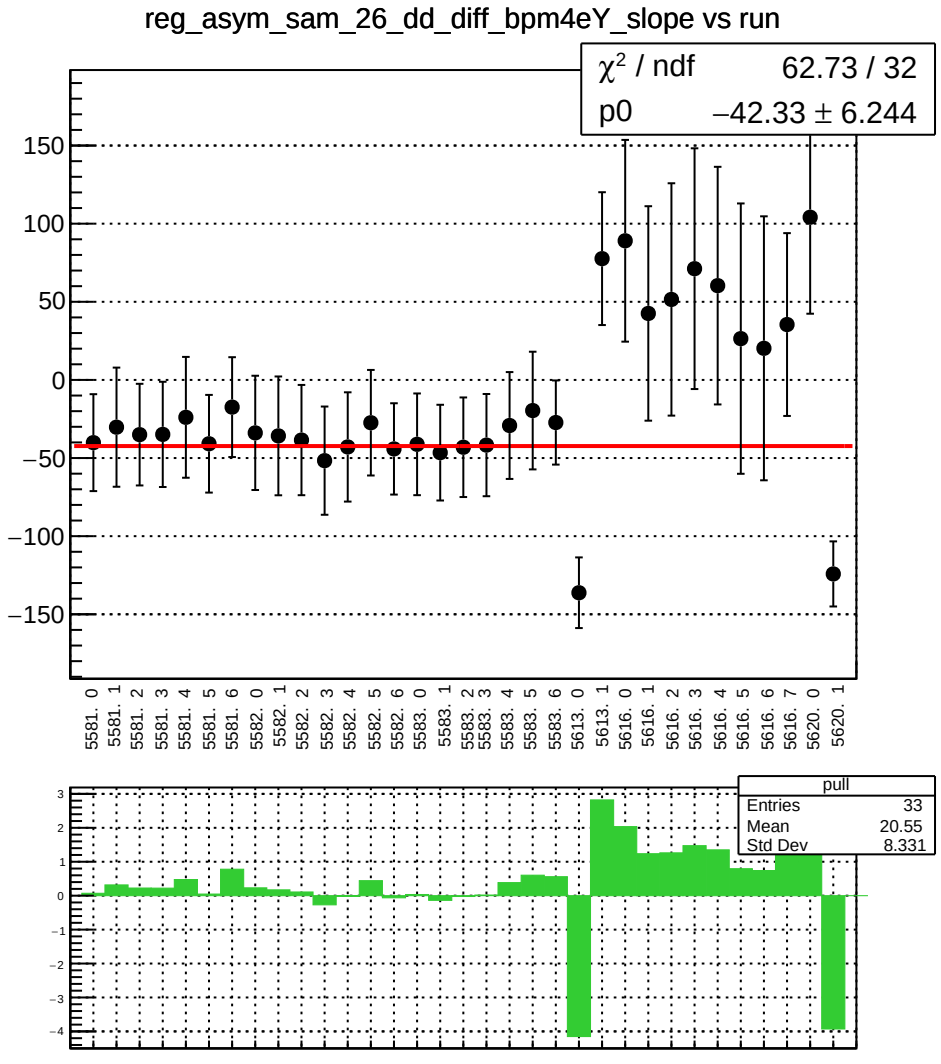

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 1208 / 32
p0 −3.176 ± 0.2034
5
0
−5
−10
−15
−20
−25
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 72.22
Std Dev 0
5
0
−5
−10
−15
pull1D
Entries 33
Mean 2.182
Std Dev 1.242
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

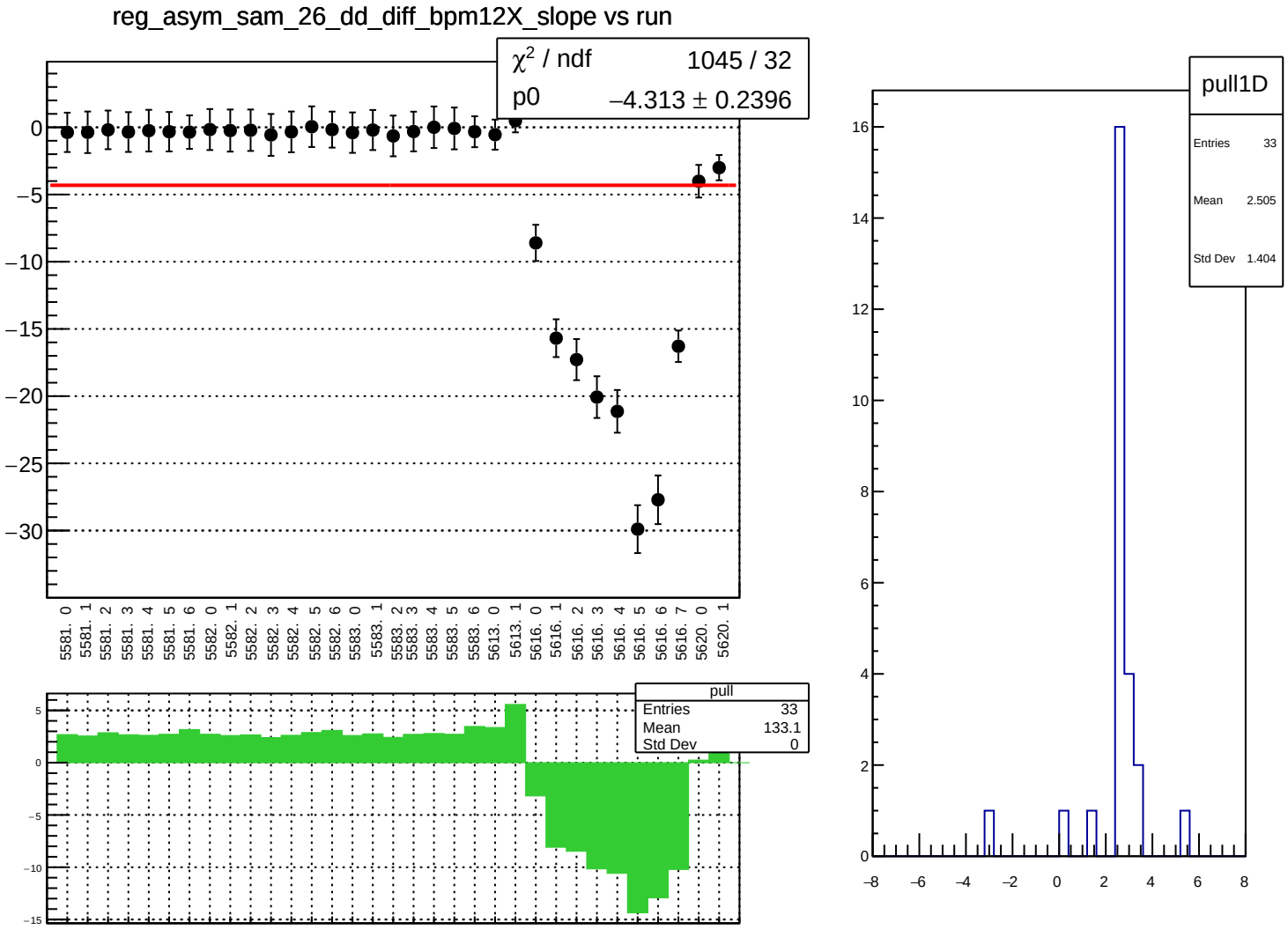

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1636 / 32
p0 −122.2 ± 6.014
0
−200
−400
−600
−800
−1000
−1200
−1400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 47.21
Std Dev 0
5
0
−5
−10
−15

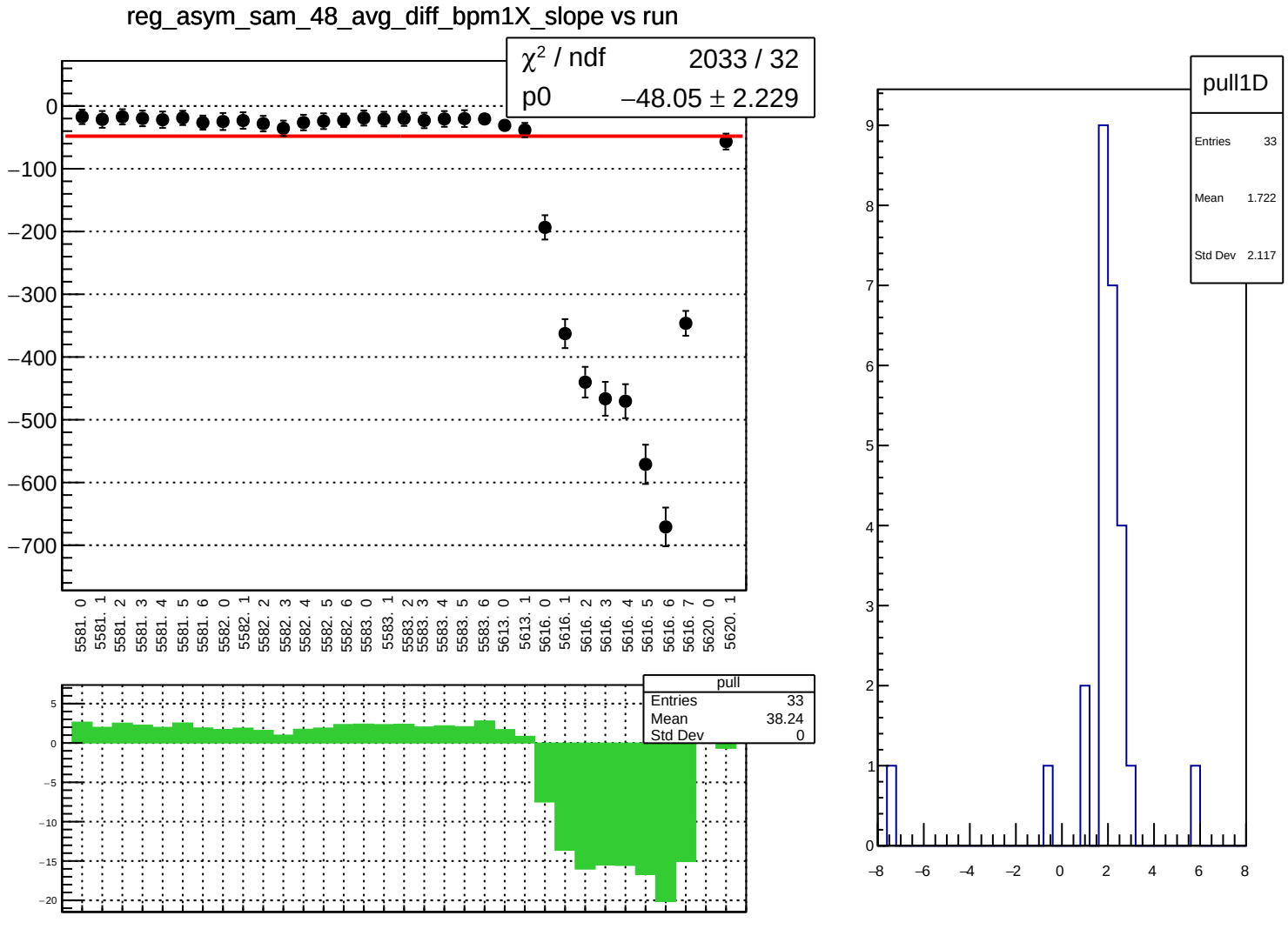

pull1D
Entries 33
Mean 2.155
Std Dev 1.751
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

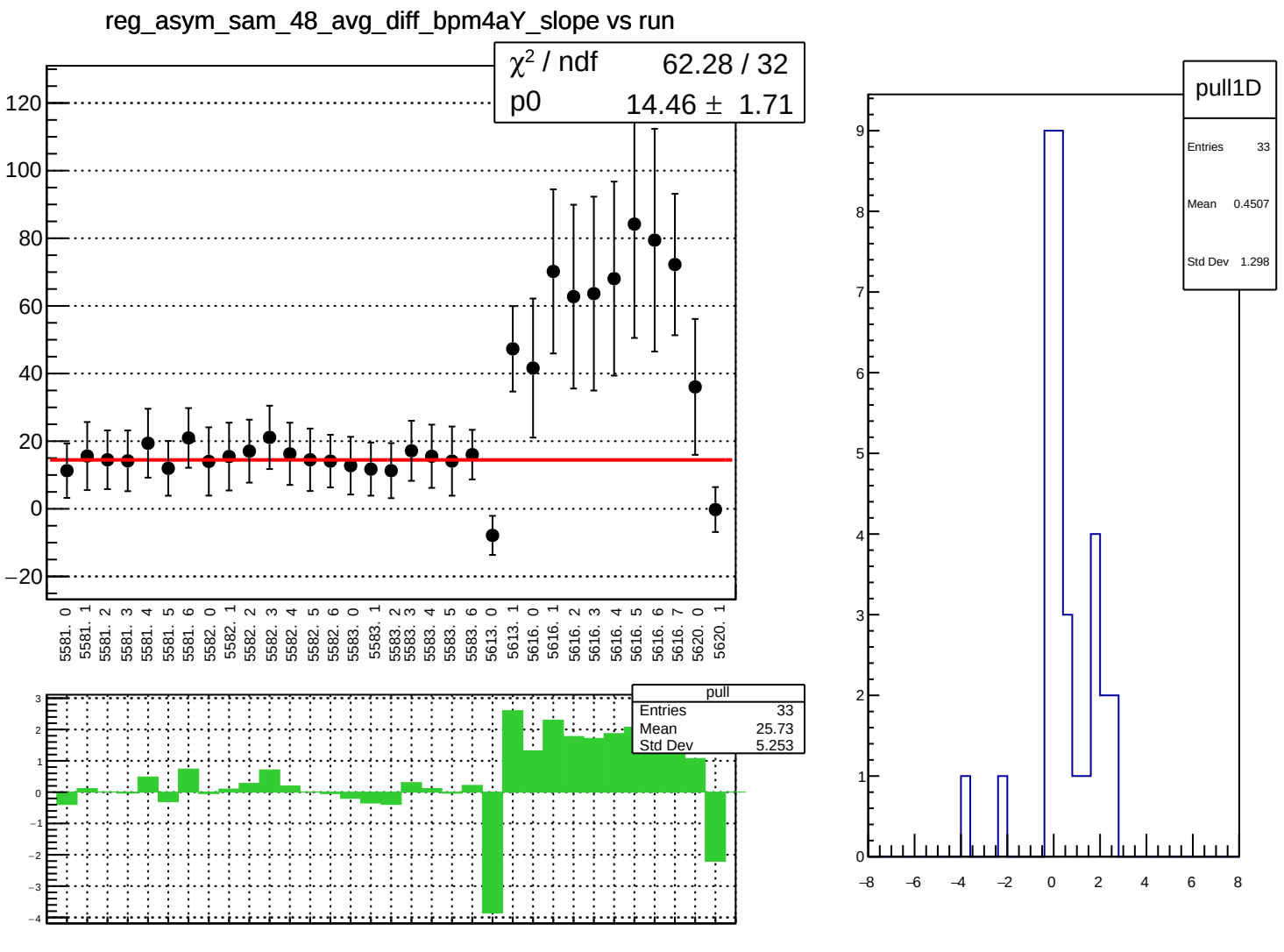

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.39 / 32
p0 −97.19 ± 4.75
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.6
Std Dev 8.095
4
3
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean −0.3094
Std Dev 1.294
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

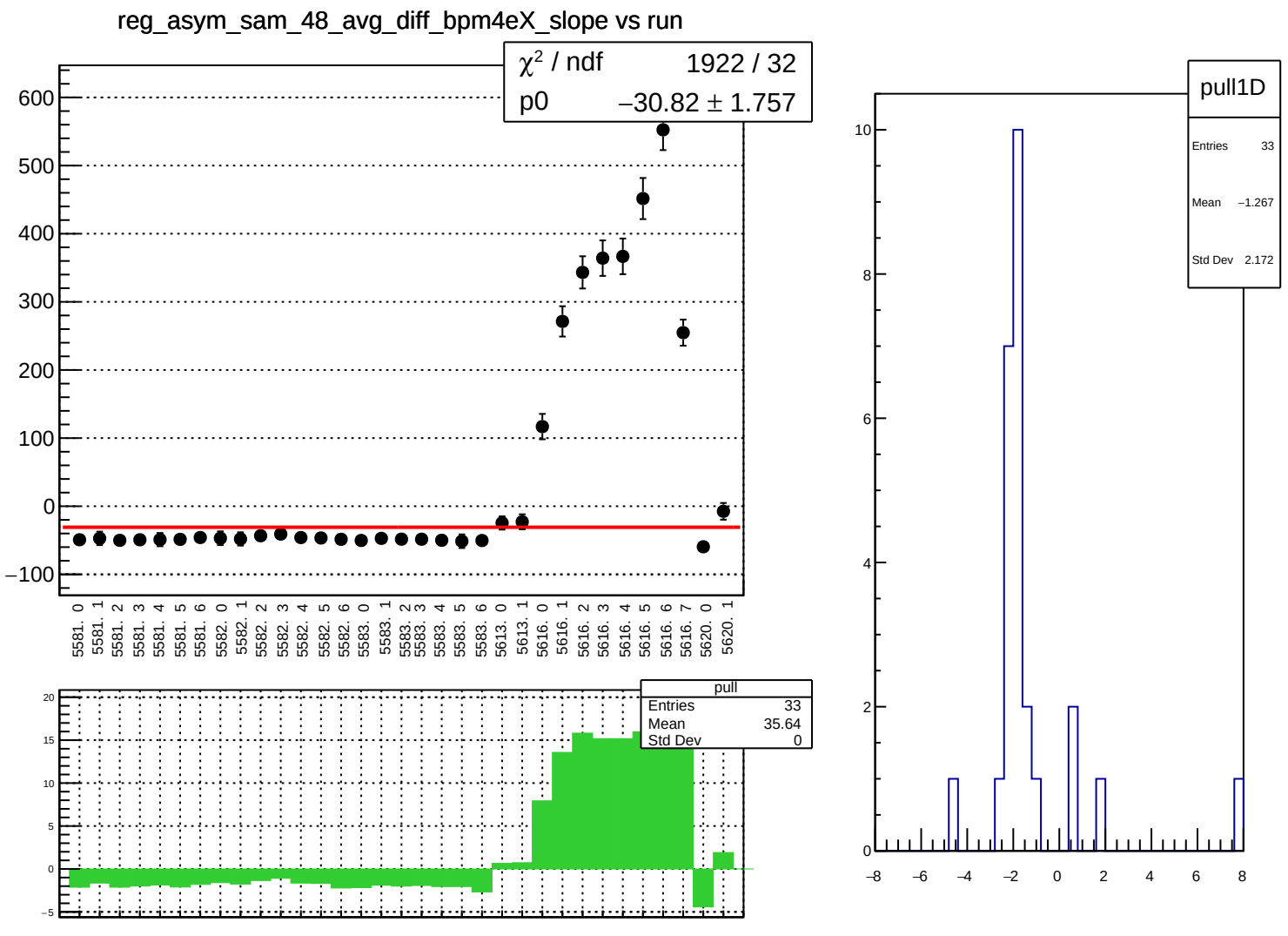

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1571 / 32
p0 −78.2 ± 4.828
1000
800
600
400
200
0
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 41.28
Std Dev 0
15
10
5
0
−5
pull1D
Entries 33
Mean −1.71
Std Dev 1.724
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

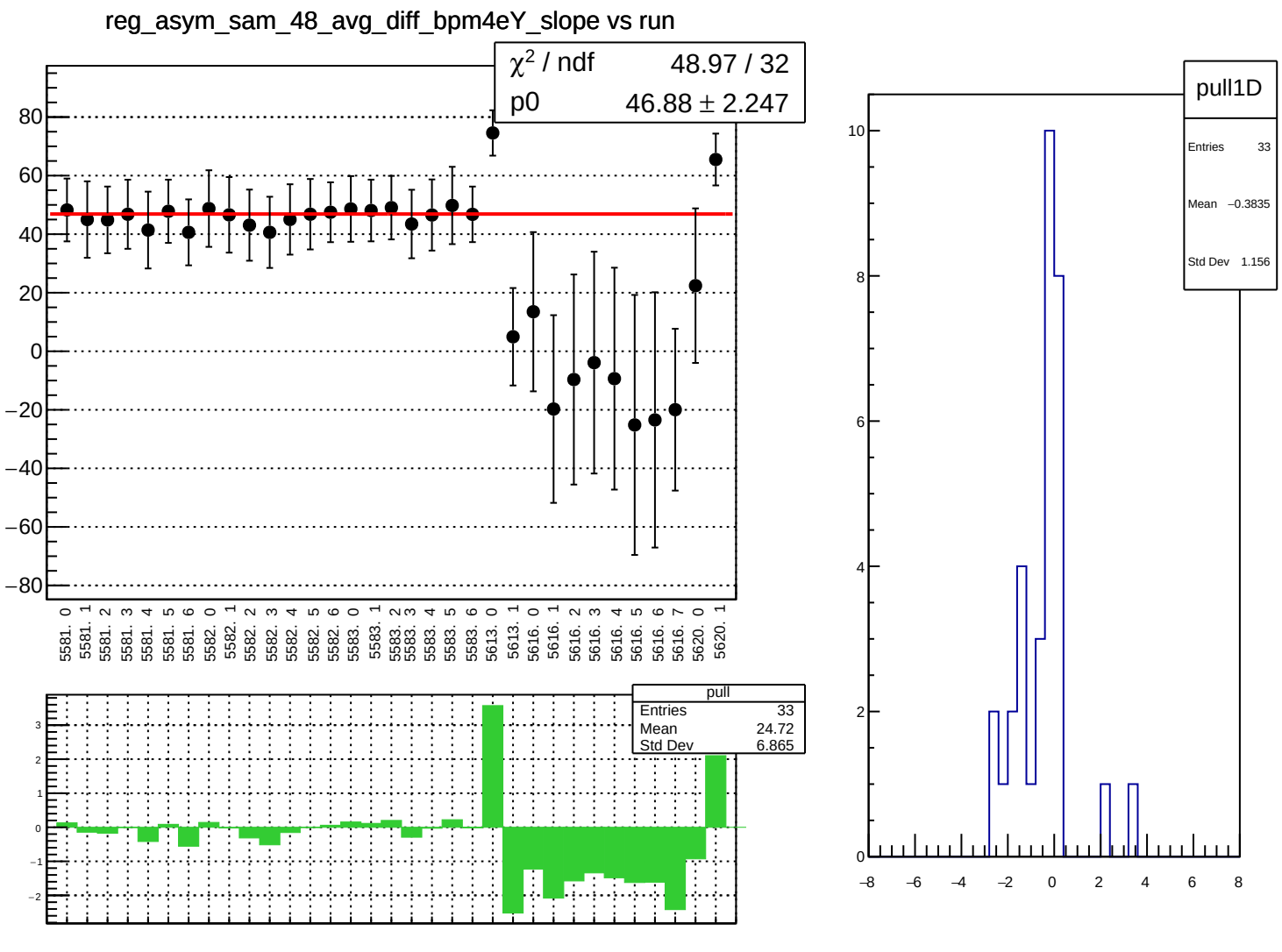

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.73 / 32
p0 −42.33 ± 6.244
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.55
Std Dev 8.331
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 33
Mean 0.349
Std Dev 1.334
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

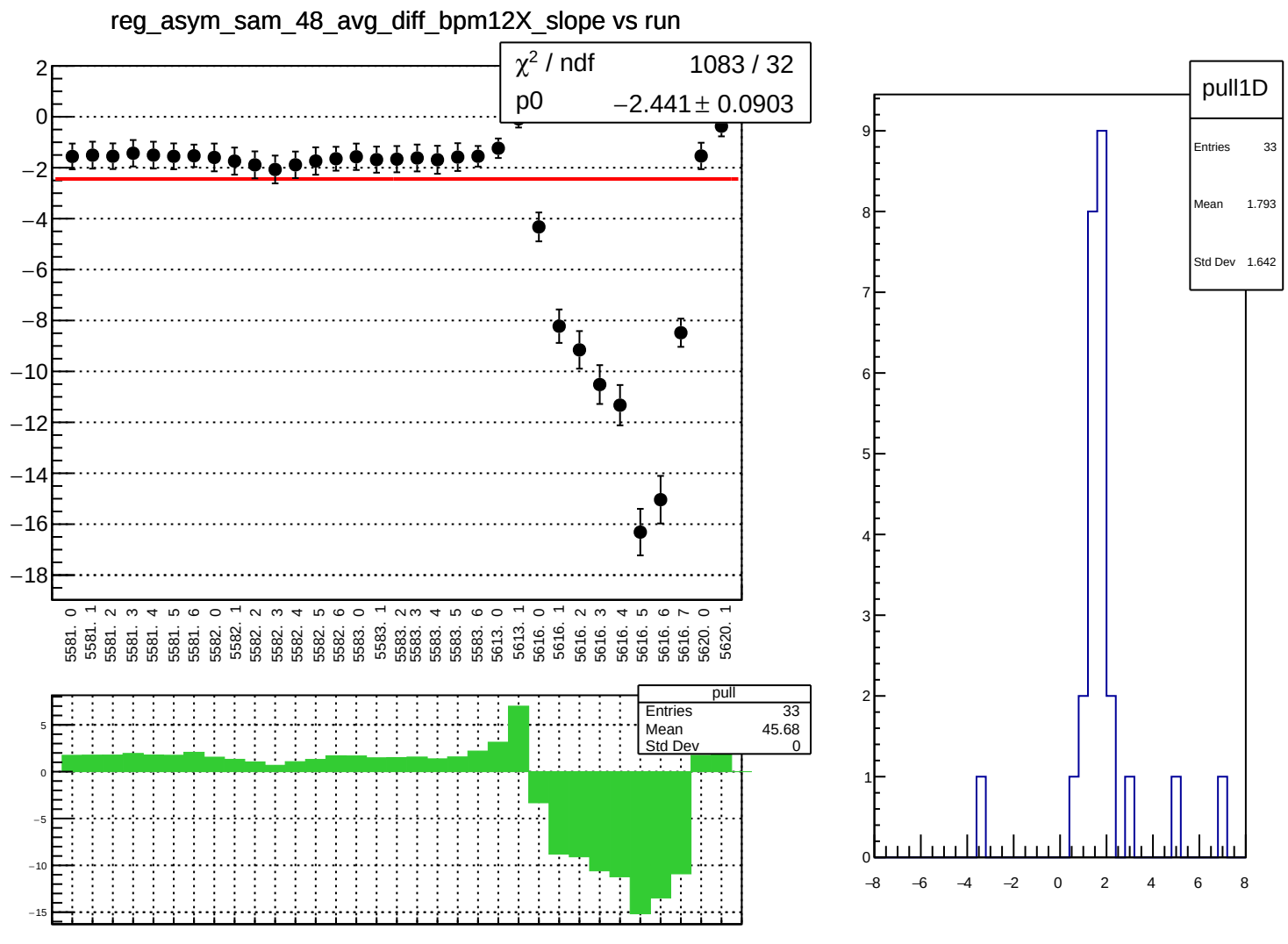

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1045 / 32
p0 −4.313 ± 0.2396
0
−5
−10
−15
−20
−25
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 133.1
Std Dev 0
5
0
−5
−10
−15
pull1D
Entries 33
Mean 2.505
Std Dev 1.404
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

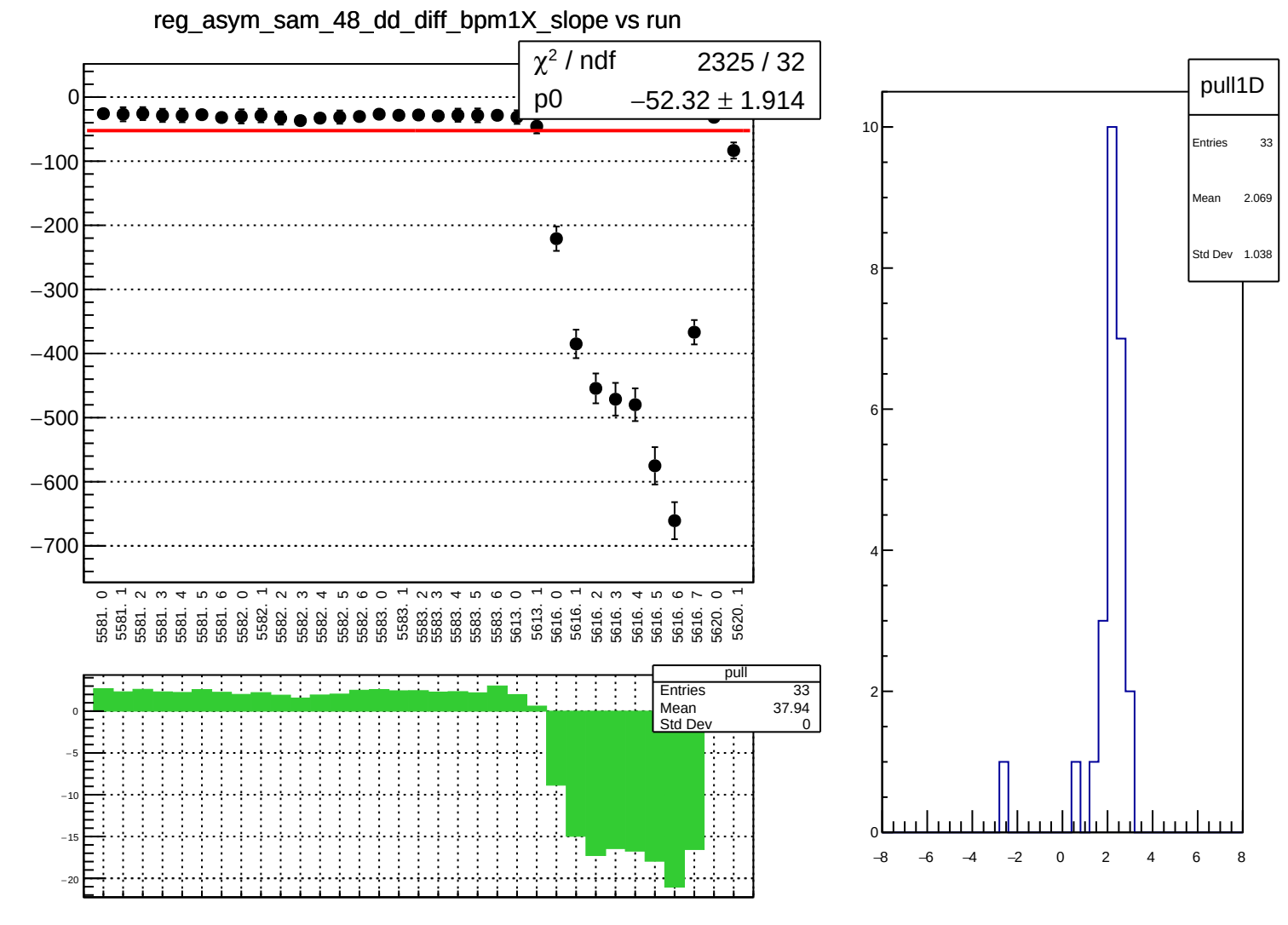

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 2033 / 32
p0 −48.05 ± 2.229
0
−100
−200
−300
−400
−500
−600
−700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.24
Std Dev 0
5
0
−5
−10
−15
−20
pull1D
Entries 33
Mean 1.722
Std Dev 2.117
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

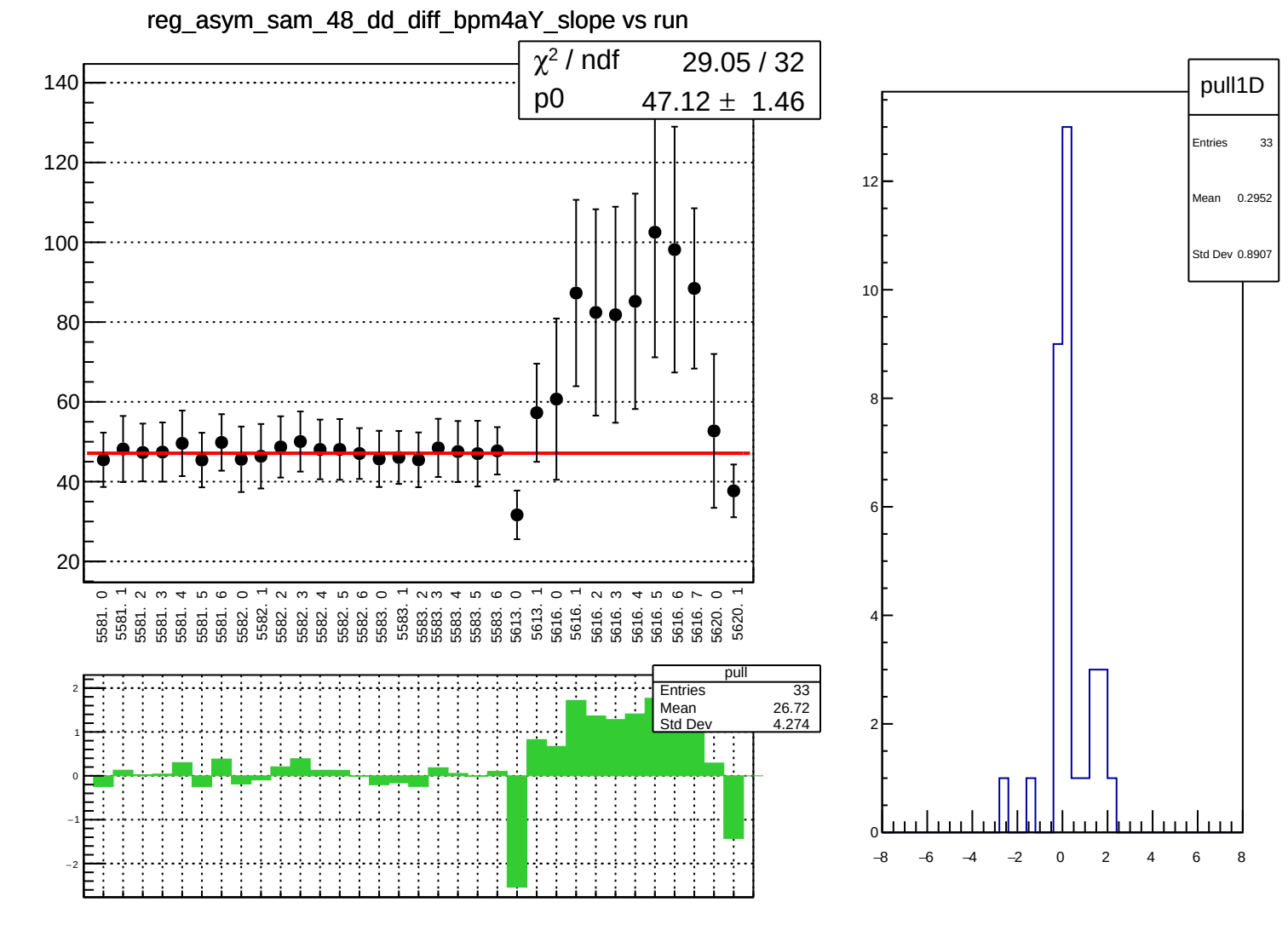

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 62.28 / 32
p0 14.46 ± 1.71
pull
Entries 33
Mean 25.73
Std Dev 5.253
pull1D
Entries 33
Mean 0.4507
Std Dev 1.298

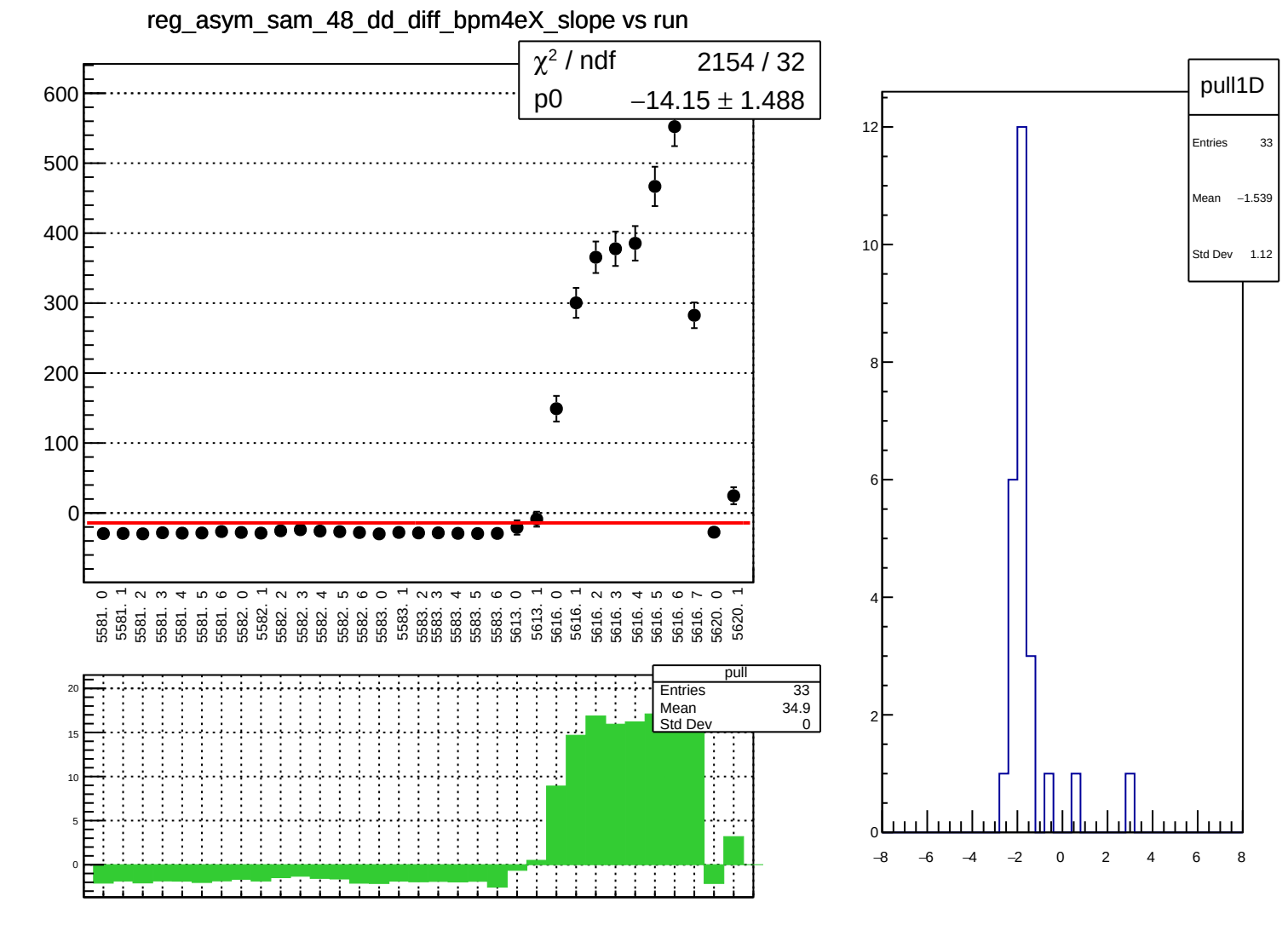

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 1922 / 32
p0 −30.82 ± 1.757
600
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.64
Std Dev 0
20
15
10
5
0
−5
pull1D
Entries 33
Mean −1.267
Std Dev 2.172
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

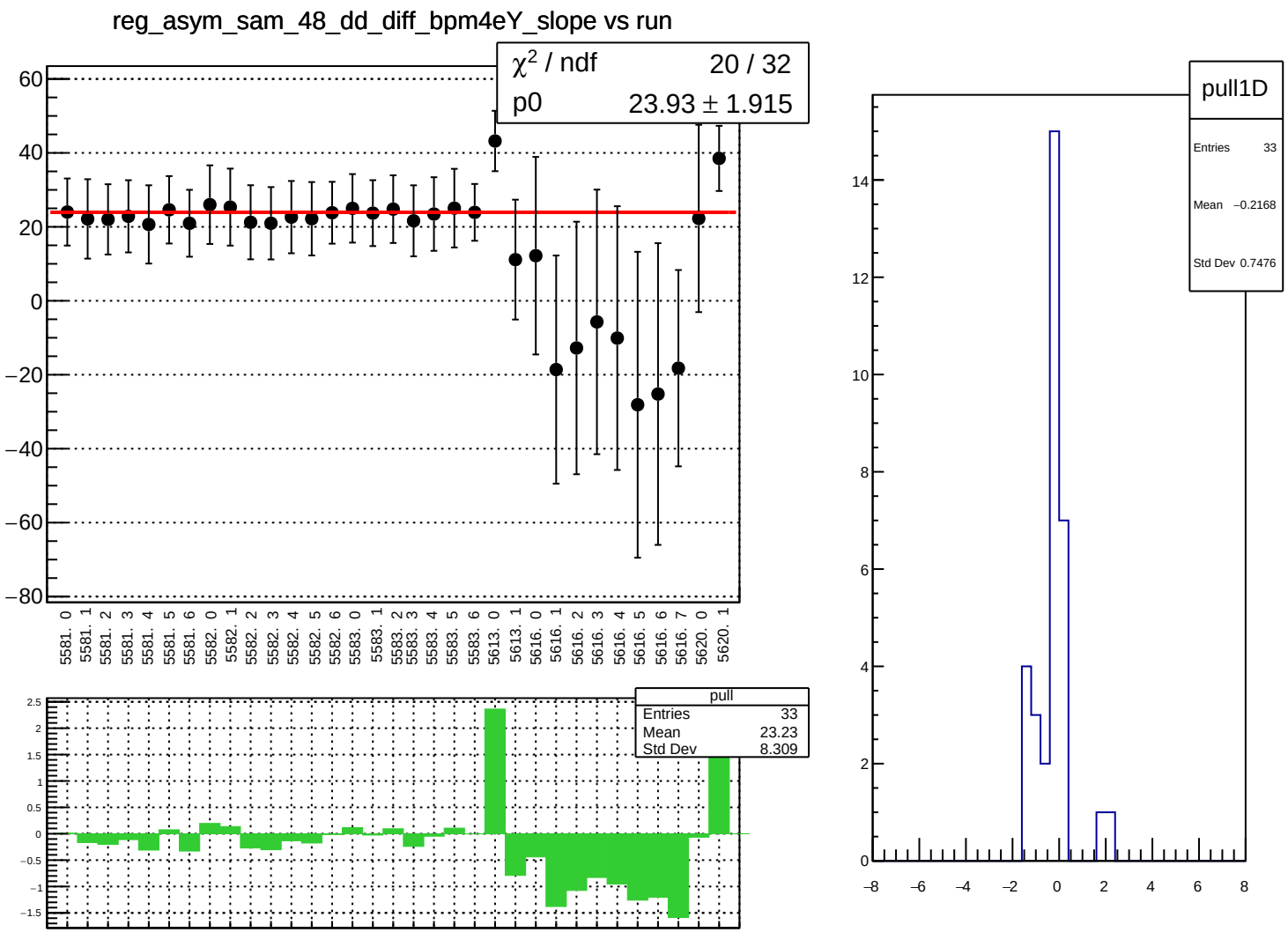

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 48.97 / 32
p0 46.88 ± 2.247
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.72
Std Dev 6.865
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.3835
Std Dev 1.156
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

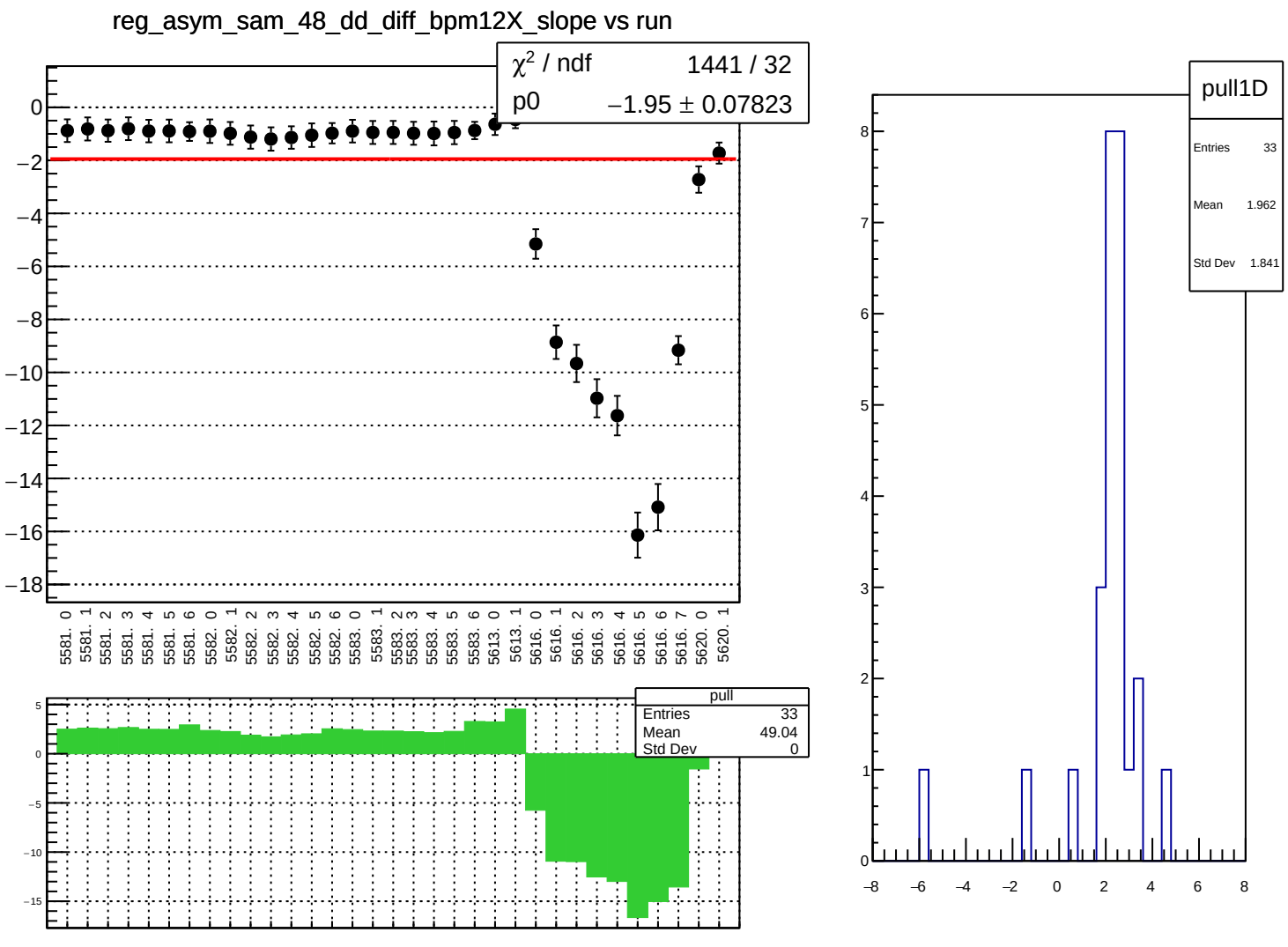

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 1083 / 32
p0 −2.441 ± 0.0903
pull
Entries 33
Mean 45.68
Std Dev 0
pull1D
Entries 33
Mean 1.793
Std Dev 1.642

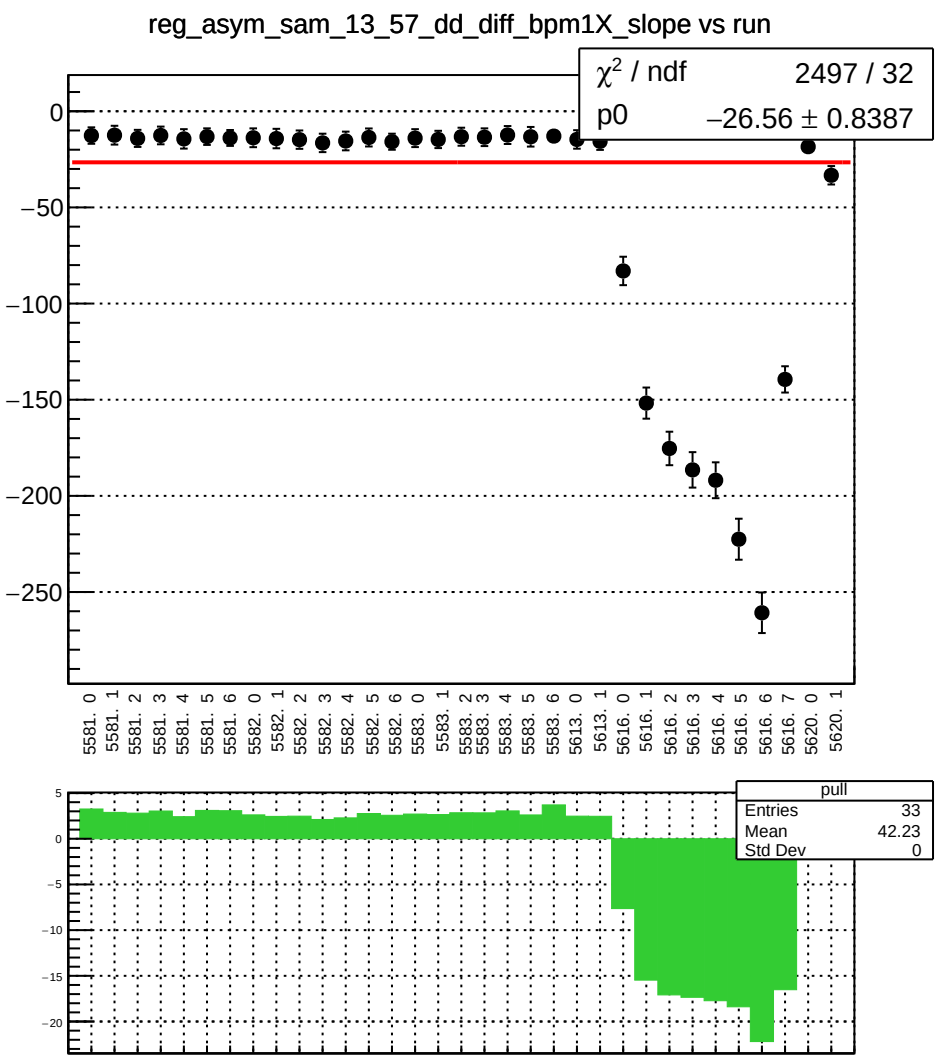

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2325 / 32
p0 −52.32 ± 1.914
0
−100
−200
−300
−400
−500
−600
−700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.94
Std Dev 0
0
−5
−10
−15
−20
pull1D
Entries 33
Mean 2.069
Std Dev 1.038
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

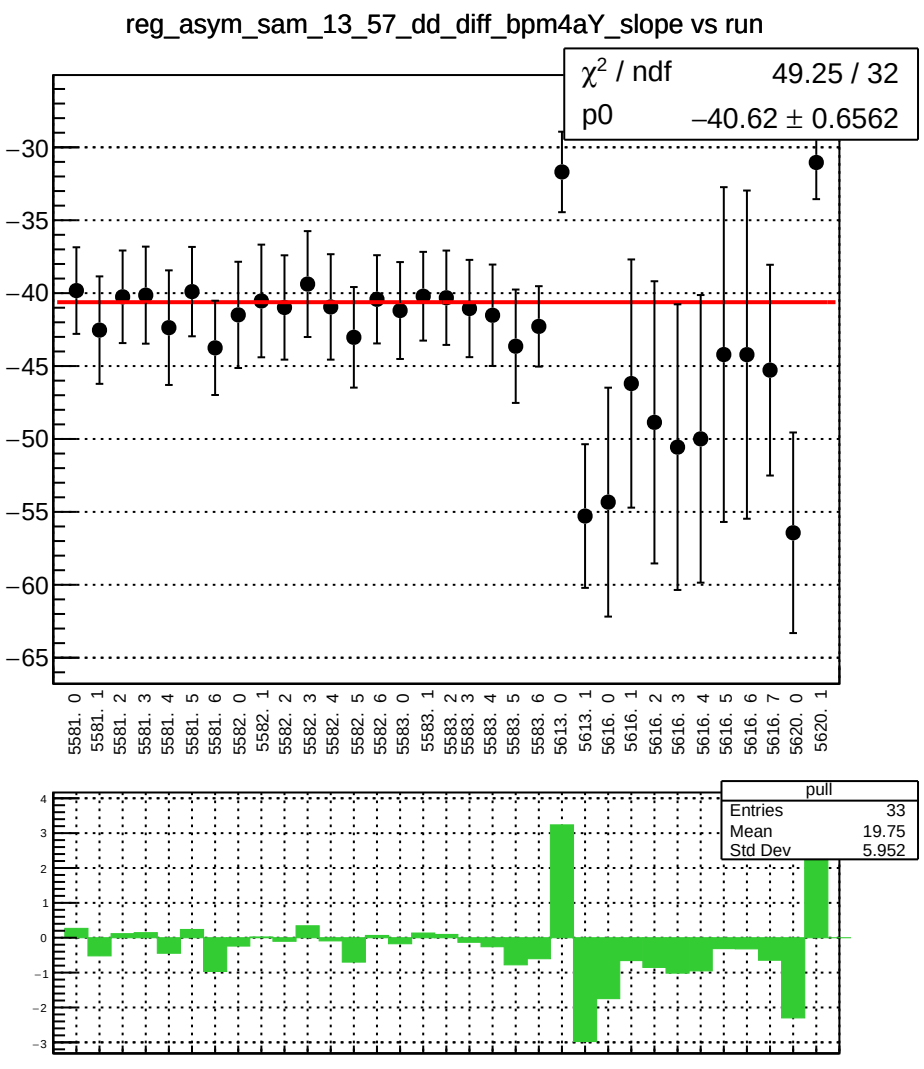

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.05 / 32
p0 47.12 ± 1.46
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.72
Std Dev 4.274
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.2952
Std Dev 0.8907
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

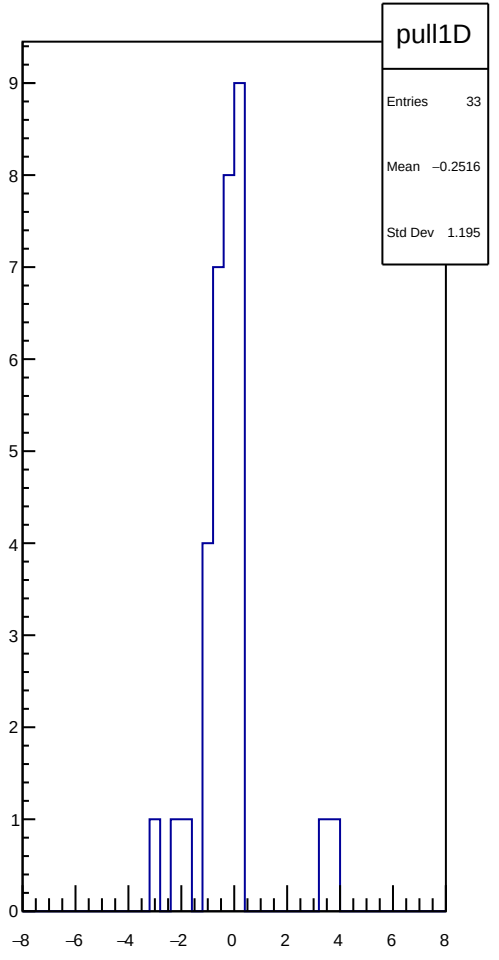

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2154 / 32
p0 −14.15 ± 1.488
600
500
400
300
200
100
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.9
Std Dev 0
20
15
10
5
0
pull1D
Entries 33
Mean −1.539
Std Dev 1.12
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

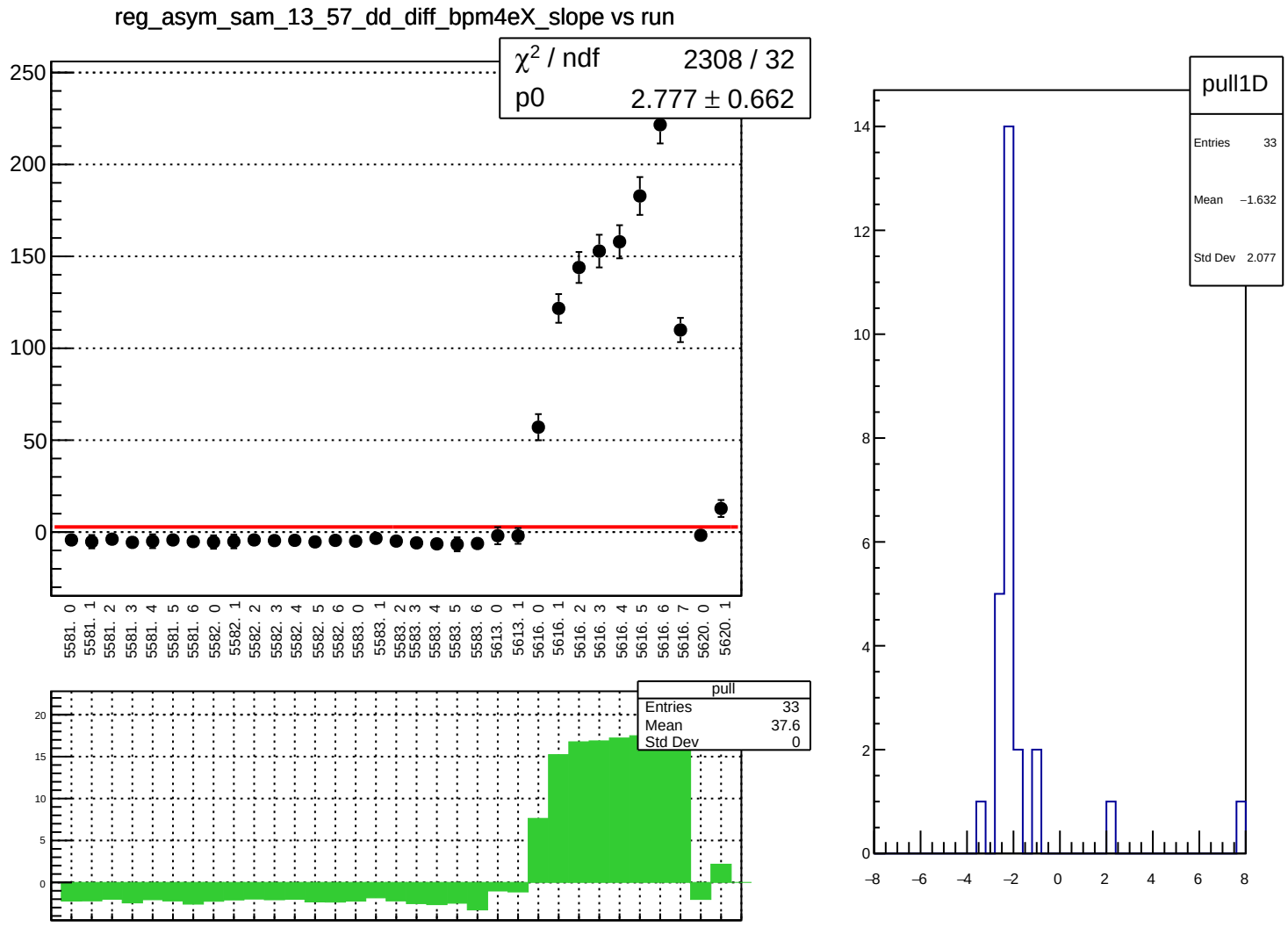

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 20 / 32
p0 23.93 ± 1.915
pull
Entries 33
Mean 23.23
Std Dev 8.309
pull1D
Entries 33
Mean −0.2168
Std Dev 0.7476

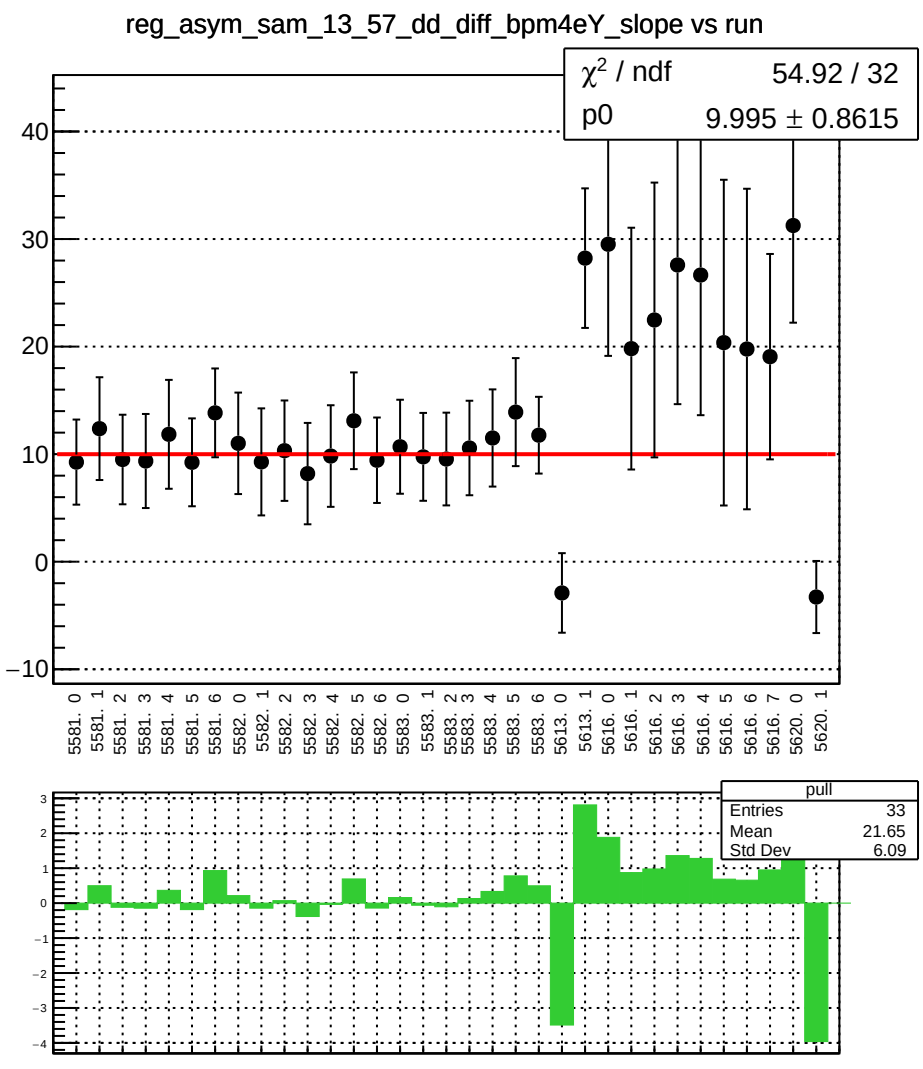

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1441 / 32
p0 −1.95 ± 0.07823
pull
Entries 33
Mean 49.04
Std Dev 0
pull1D
Entries 33
Mean 1.962
Std Dev 1.841

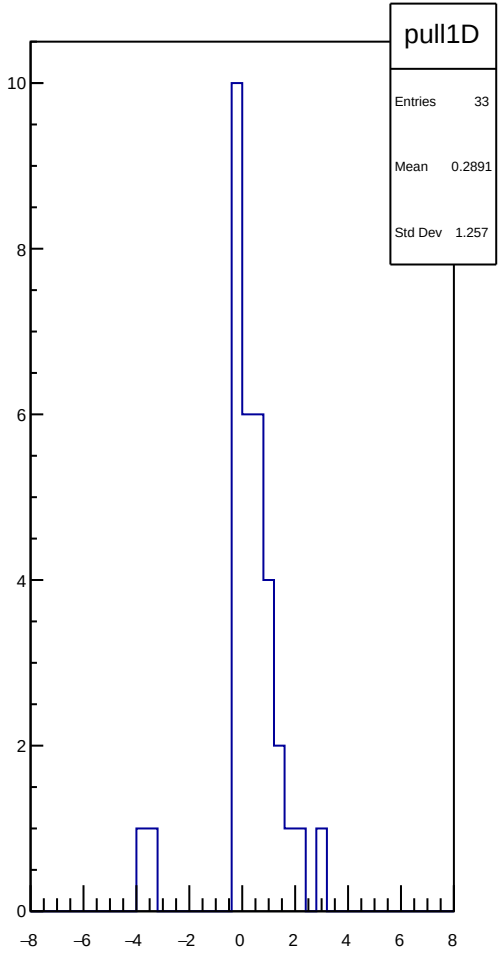

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 2497 / 32
p0 −26.56 ± 0.8387
pull
Entries 33
Mean 42.23
Std Dev 0
pull1D
Entries 33
Mean 2.207
Std Dev 2.154

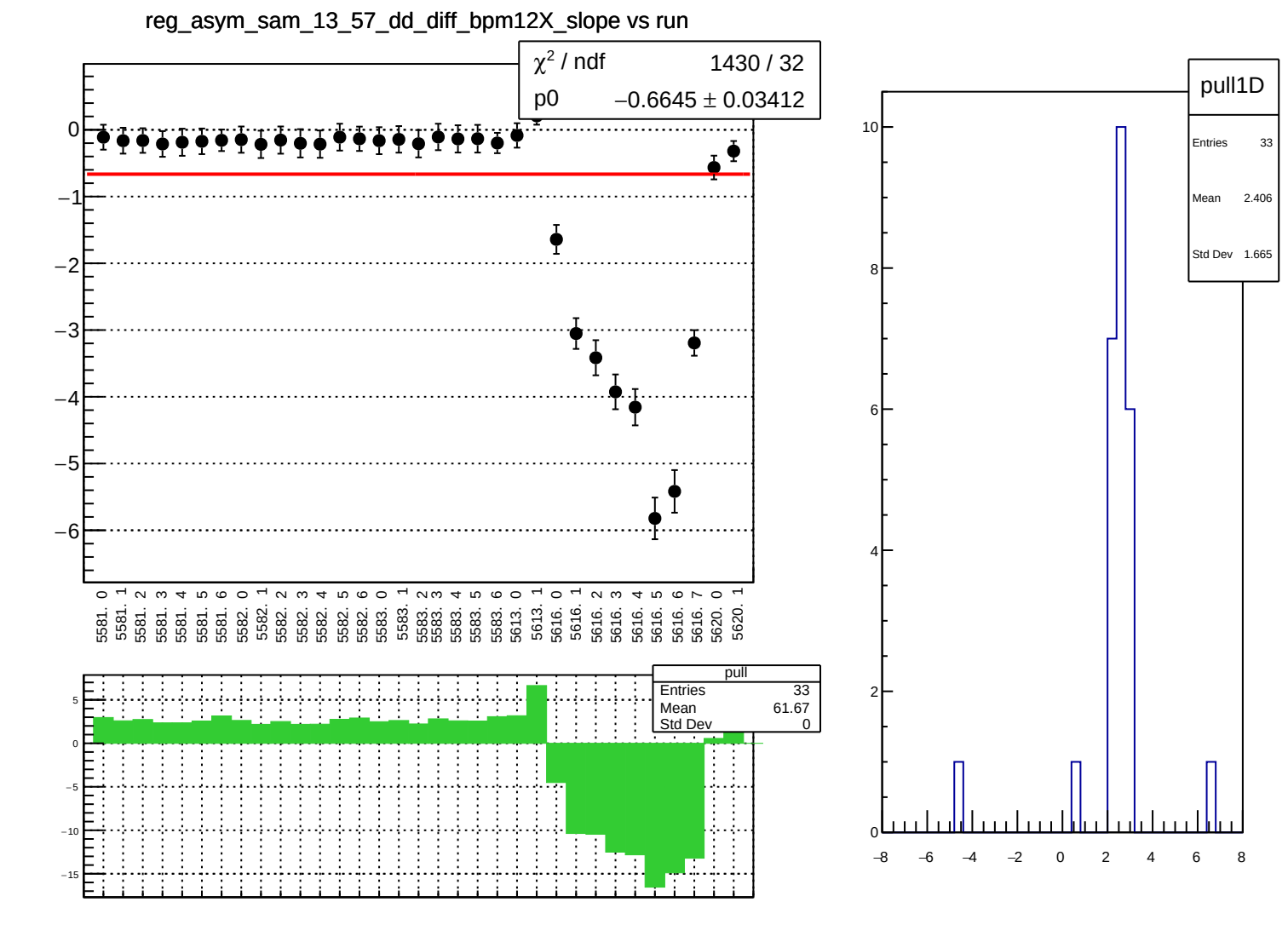

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.25 / 32
p0 −40.62 ± 0.6562
−30
−35
−40
−45
−50
−55
−60
−65
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.75
Std Dev 5.952
4
3
2
1
0
−1
−2
−3

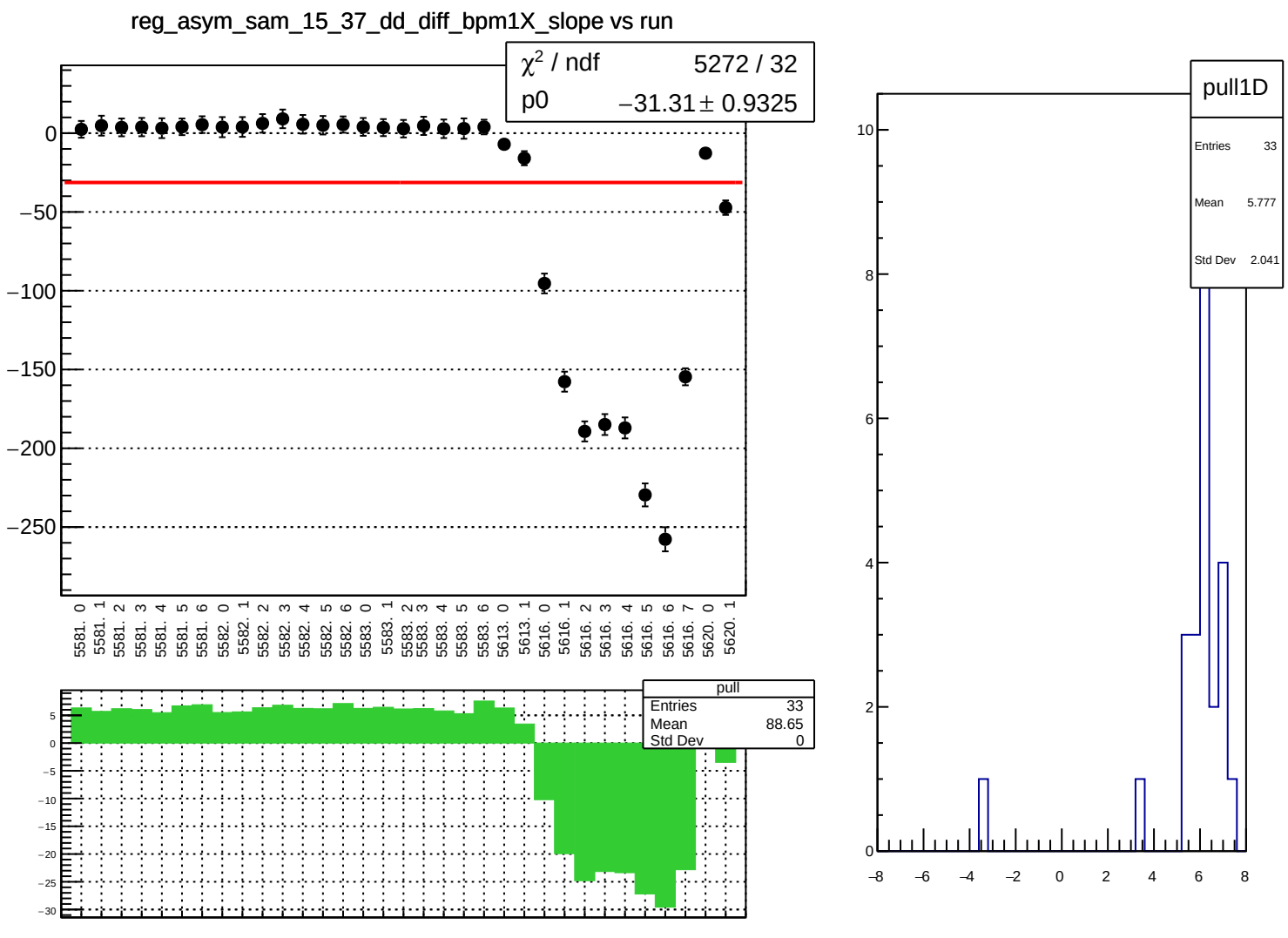

pull1D
Entries 33
Mean −0.2516
Std Dev 1.195
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

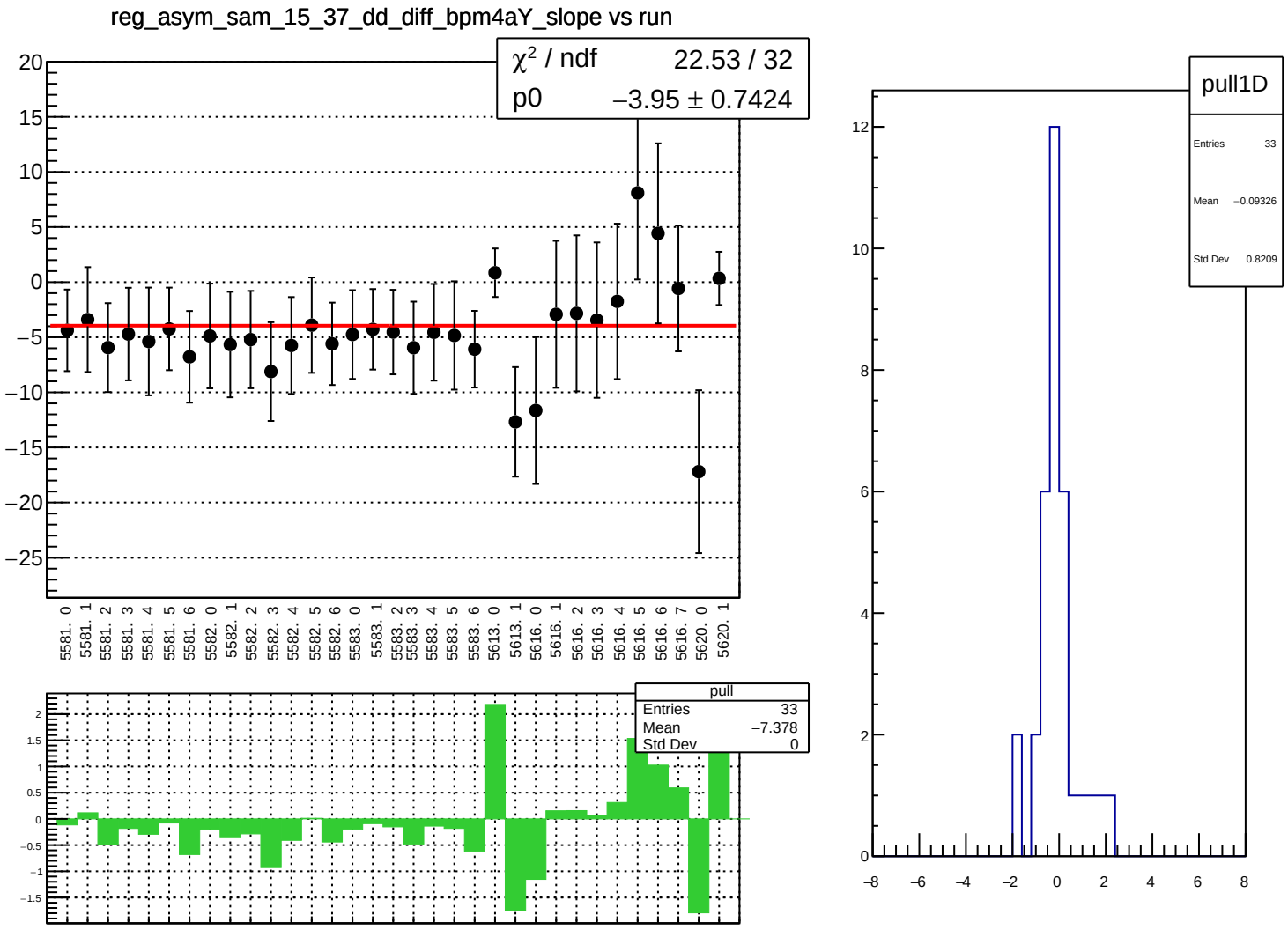

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2308 / 32
p0 2.777 ± 0.662
250
200
150
100
50
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.6
Std Dev 0
20
15
10
5
0
pull1D
Entries 33
Mean −1.632
Std Dev 2.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

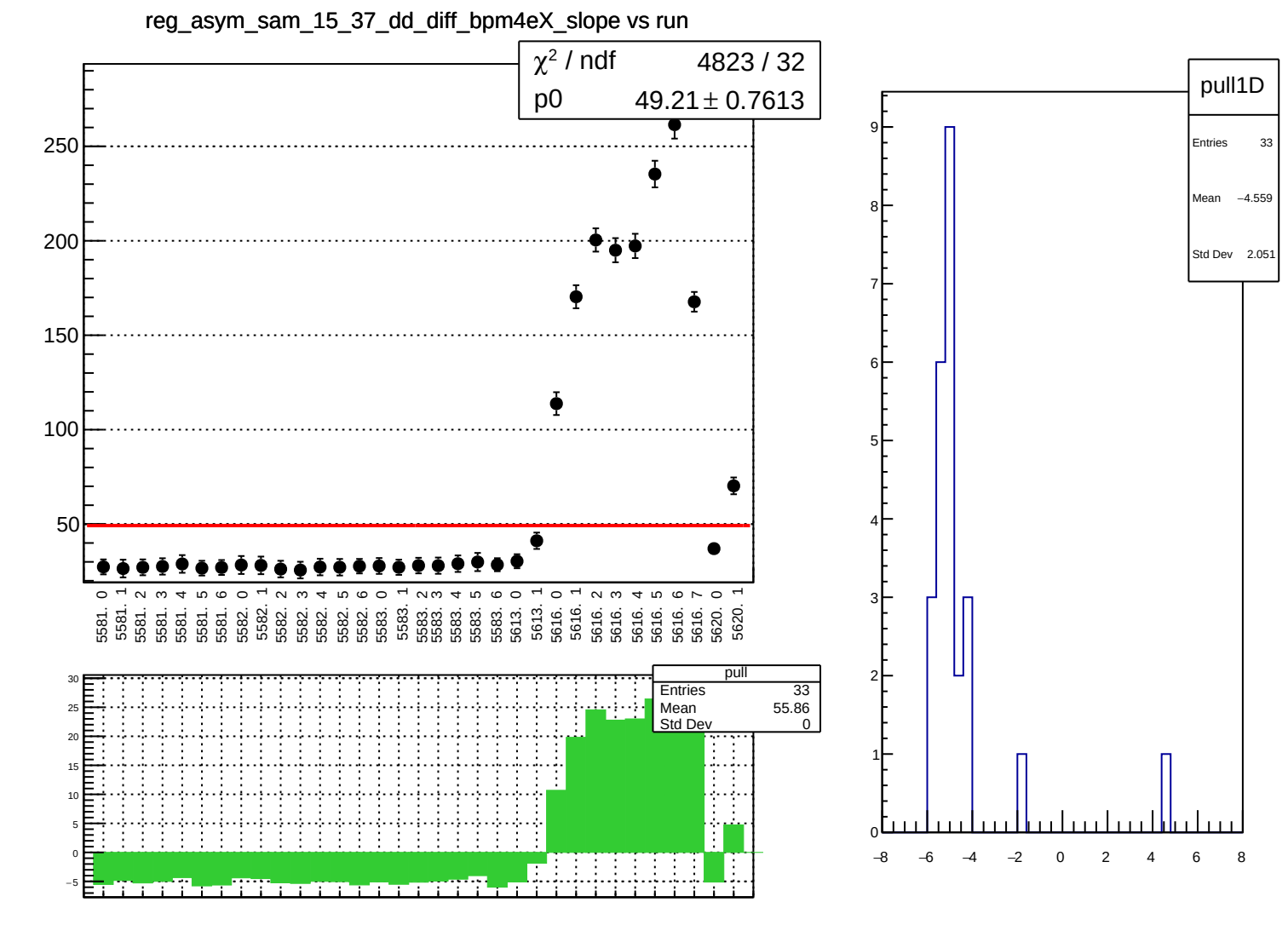

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.92 / 32
p0 9.995 ± 0.8615
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.65
Std Dev 6.09
3
2
1
0
−1
−2
−3
−4

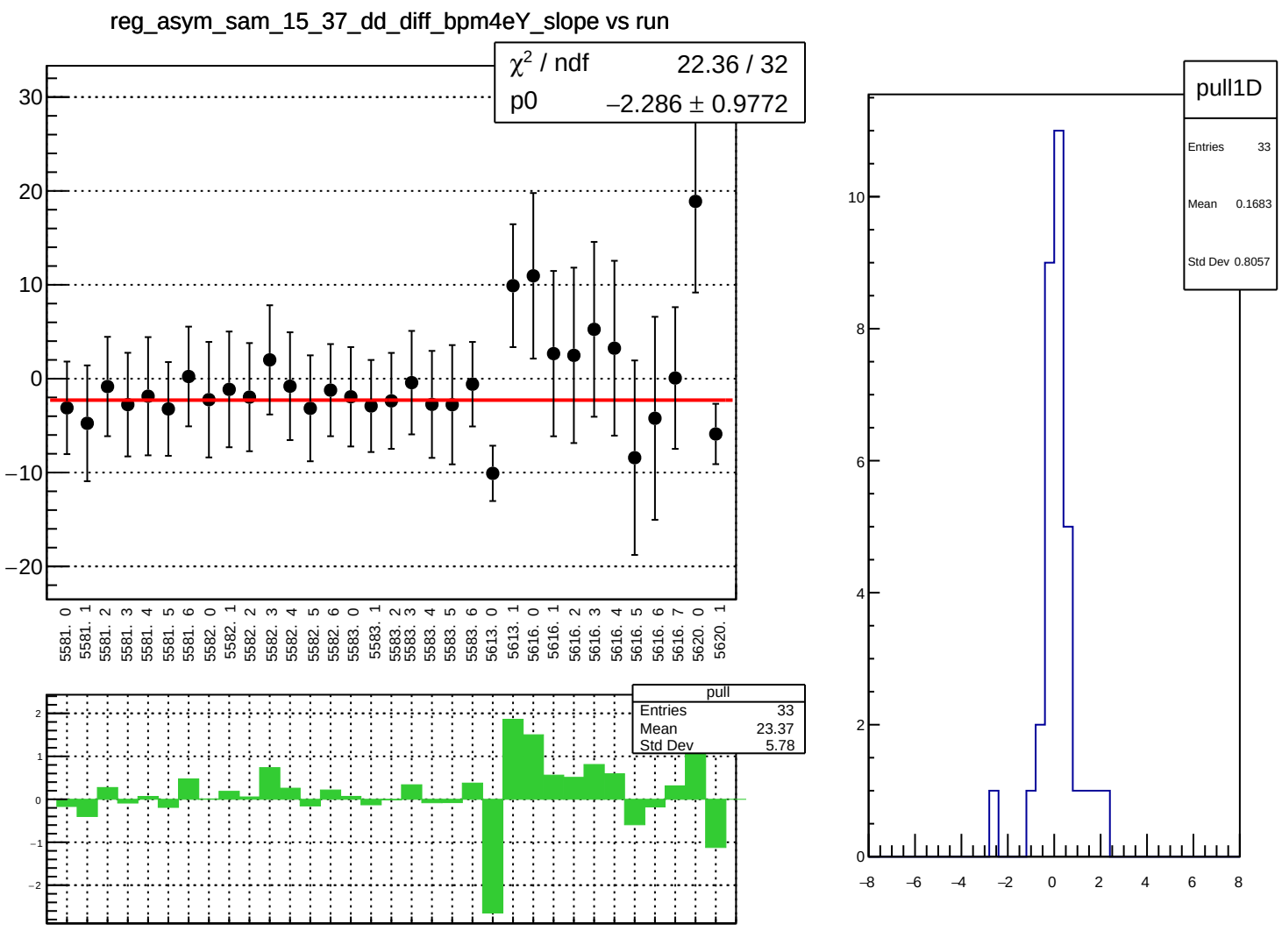

pull1D
Entries 33
Mean 0.2891
Std Dev 1.257
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

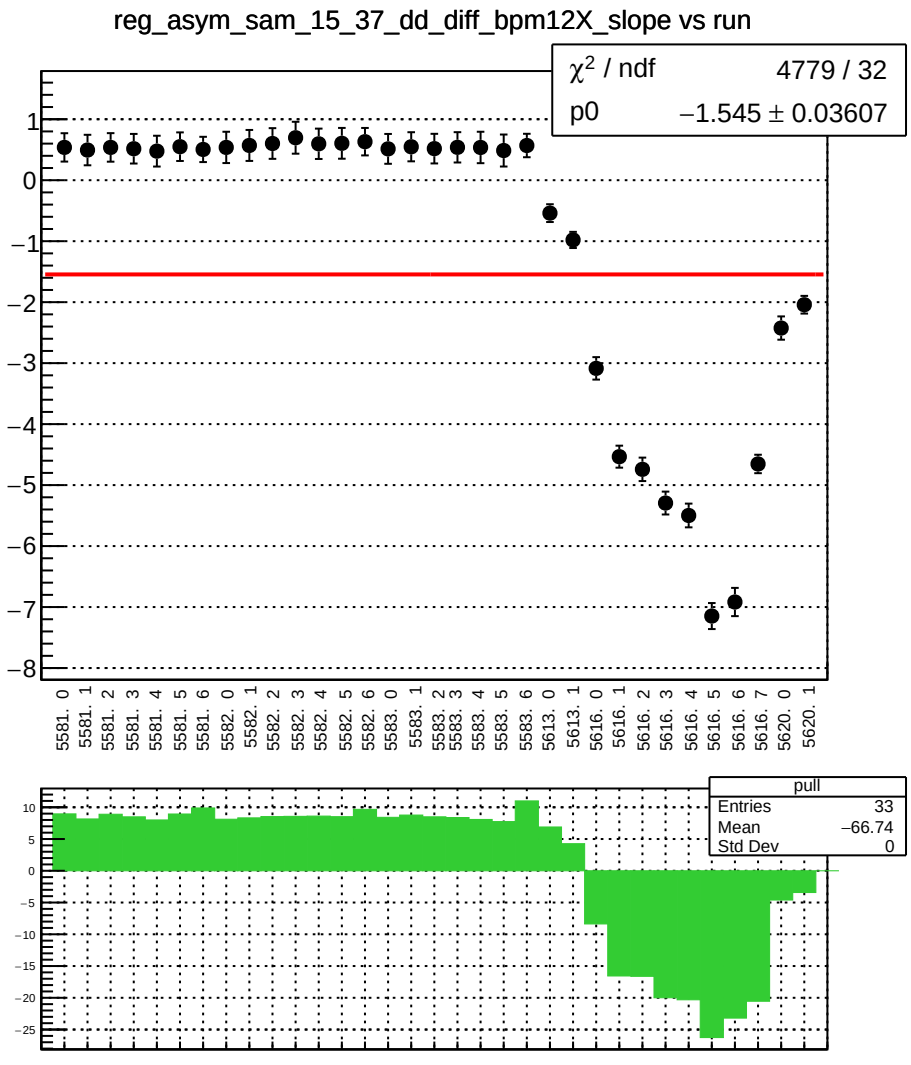

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 1430 / 32
p0 −0.6645 ± 0.03412
0
−1
−2
−3
−4
−5
−6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 61.67
Std Dev 0
5
0
−5
−10
−15
pull1D
Entries 33
Mean 2.406
Std Dev 1.665
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

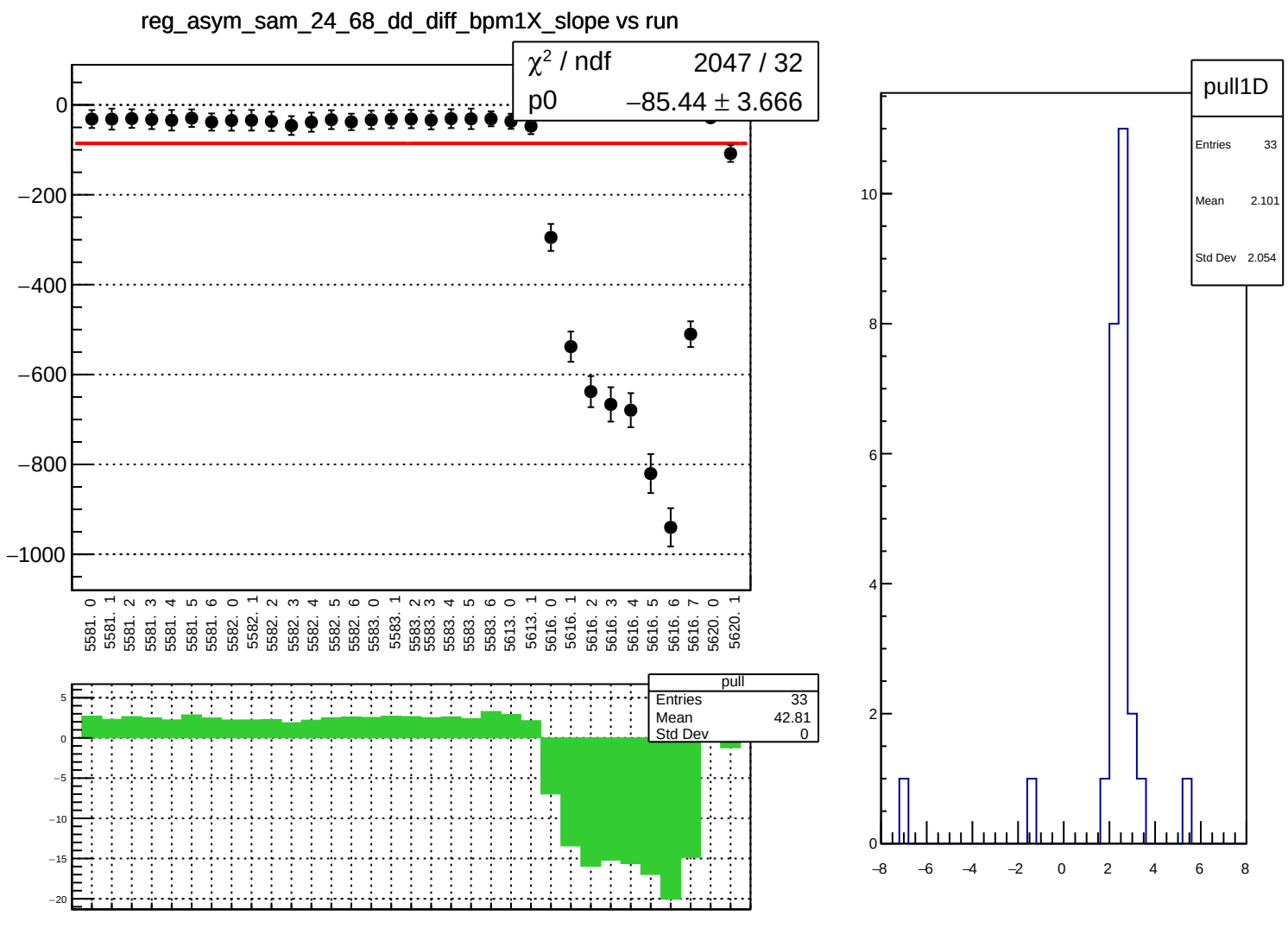

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 5272 / 32
p0 −31.31 ± 0.9325
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 88.65
Std Dev 0
5
0
−5
−10
−15
−20
−25
−30
pull1D
Entries 33
Mean 5.777
Std Dev 2.041
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

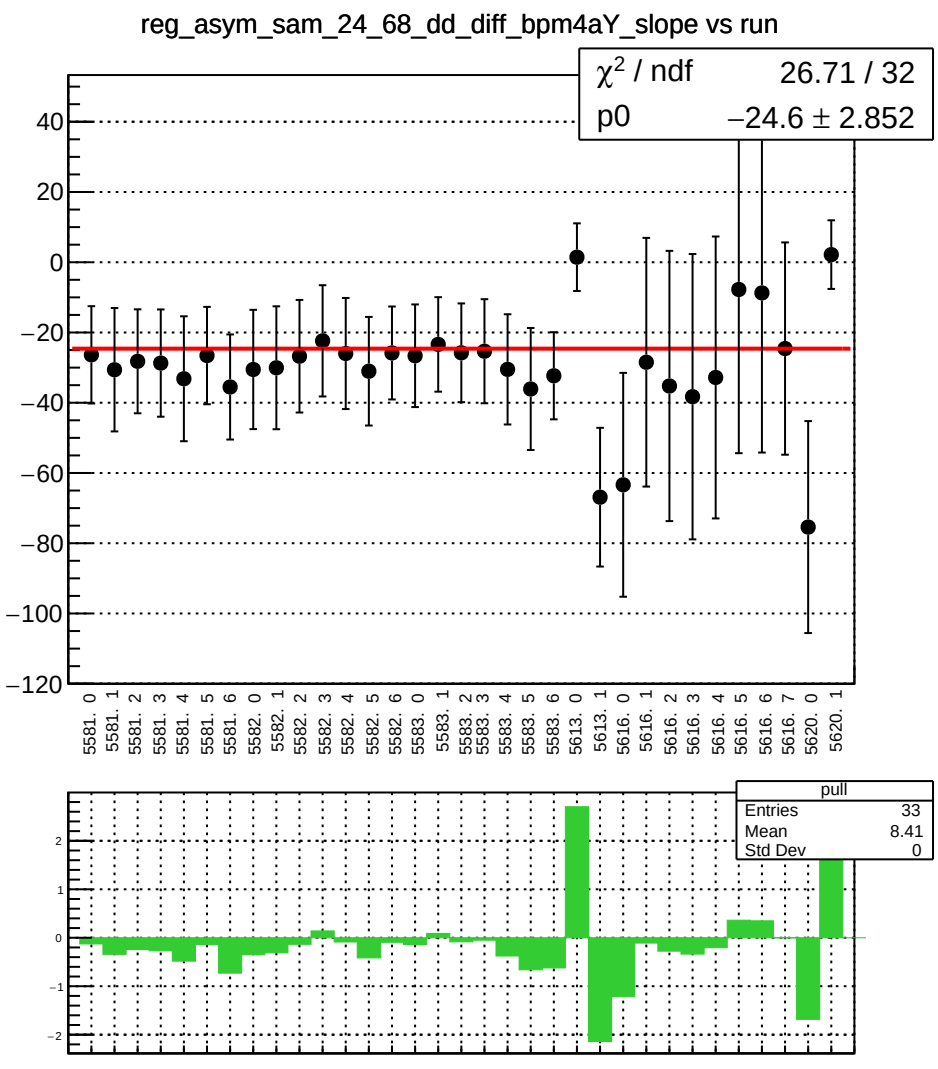

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.53 / 32
p0 −3.95 ± 0.7424
pull
Entries 33
Mean −7.378
Std Dev 0
pull1D
Entries 33
Mean −0.09326
Std Dev 0.8209

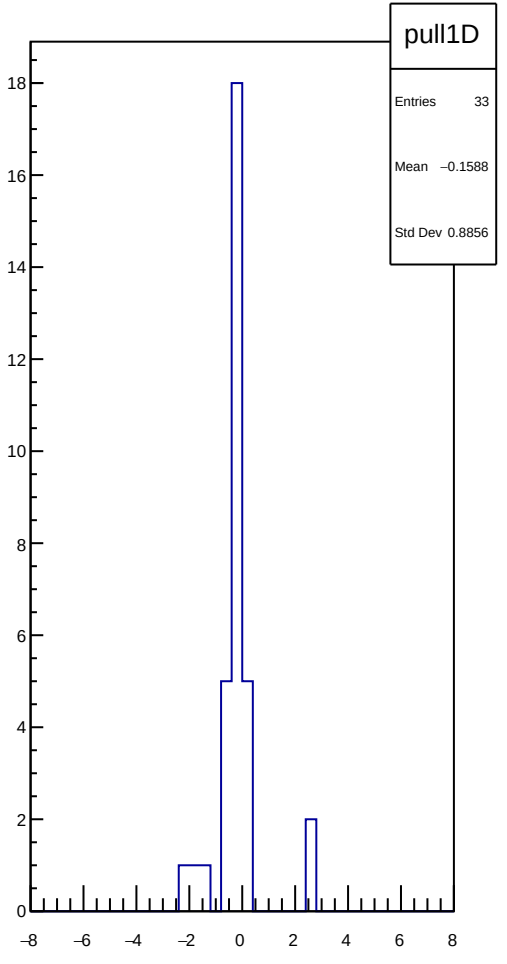

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 4823 / 32
p0 49.21 ± 0.7613
250
200
150
100
50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 55.86
Std Dev 0
30
25
20
15
10
5
0
−5
pull1D
Entries 33
Mean −4.559
Std Dev 2.051
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

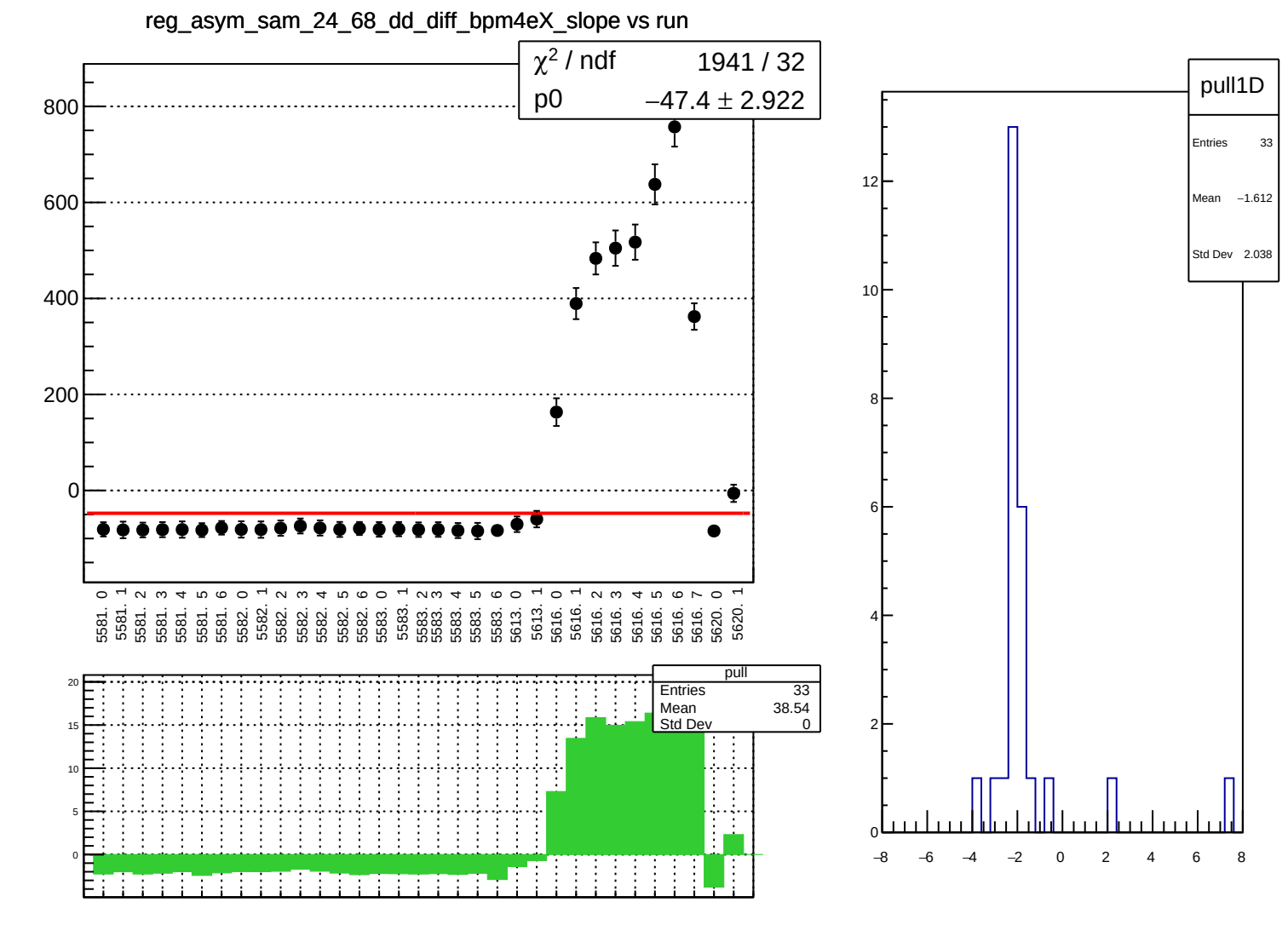

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.36 / 32
p0 −2.286 ± 0.9772
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.37
Std Dev 5.78
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.1683
Std Dev 0.8057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

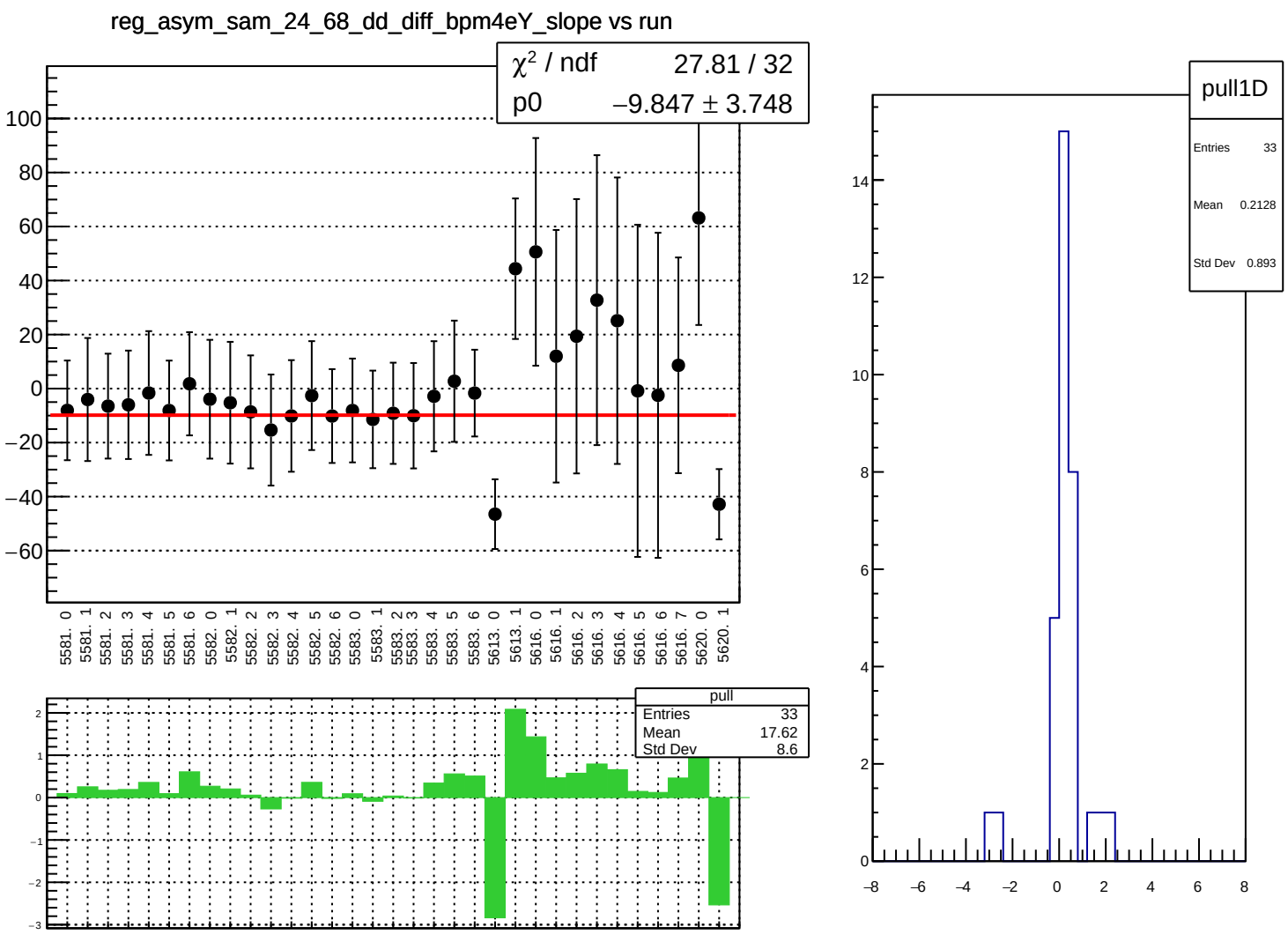

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 4779 / 32
p0 −1.545 ± 0.03607
pull
Entries 33
Mean −66.74
Std Dev 0
pull1D
Entries 33
Mean 2.175
Std Dev 5.195

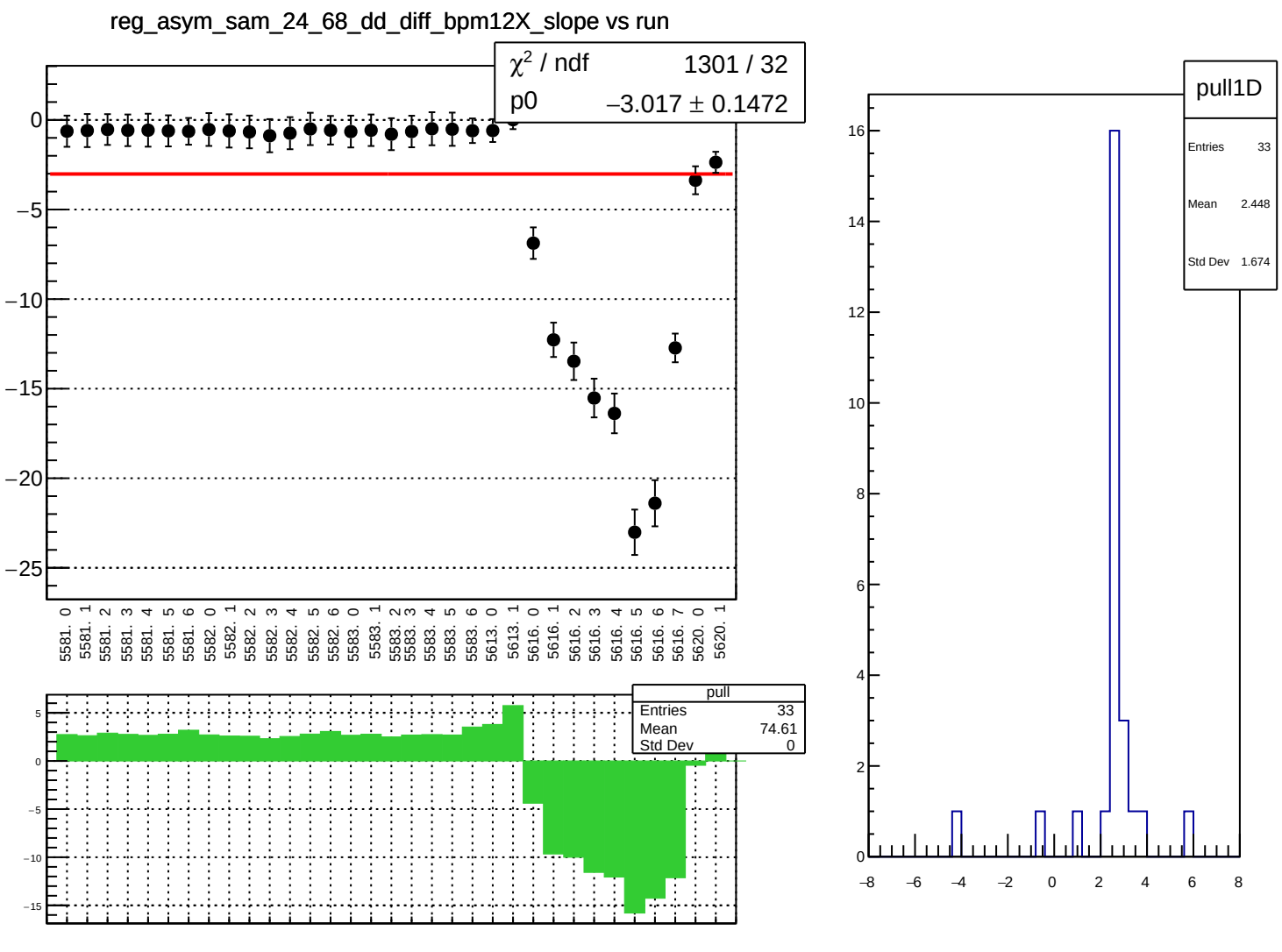

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 2047 / 32
p0 −85.44 ± 3.666
0
−200
−400
−600
−800
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 42.81
Std Dev 0
5
0
−5
−10
−15
−20
pull1D
Entries 33
Mean 2.101
Std Dev 2.054
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

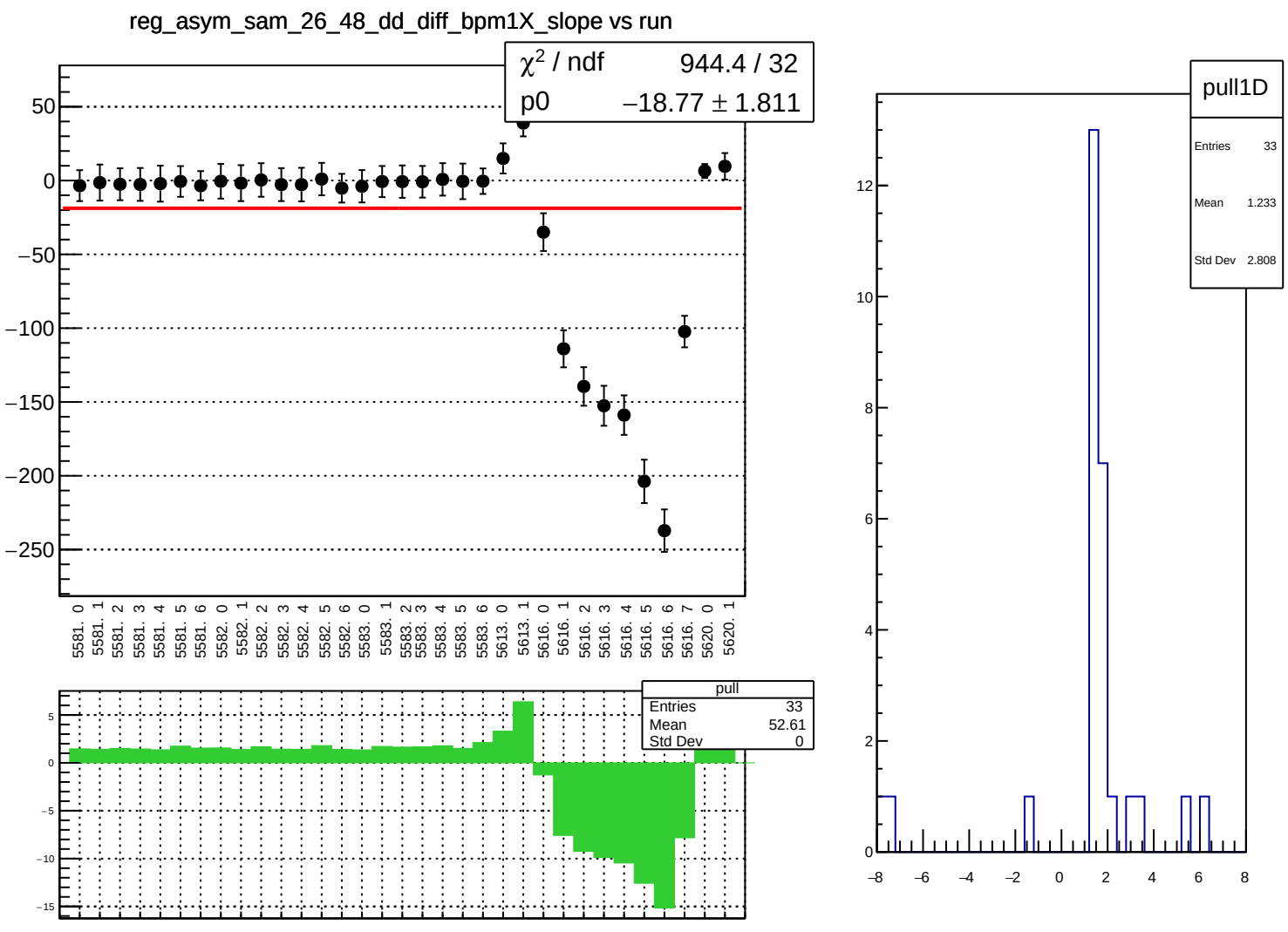

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.71 / 32
p0 −24.6 ± 2.852
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 8.41
Std Dev 0
2
1
0
−1
−2

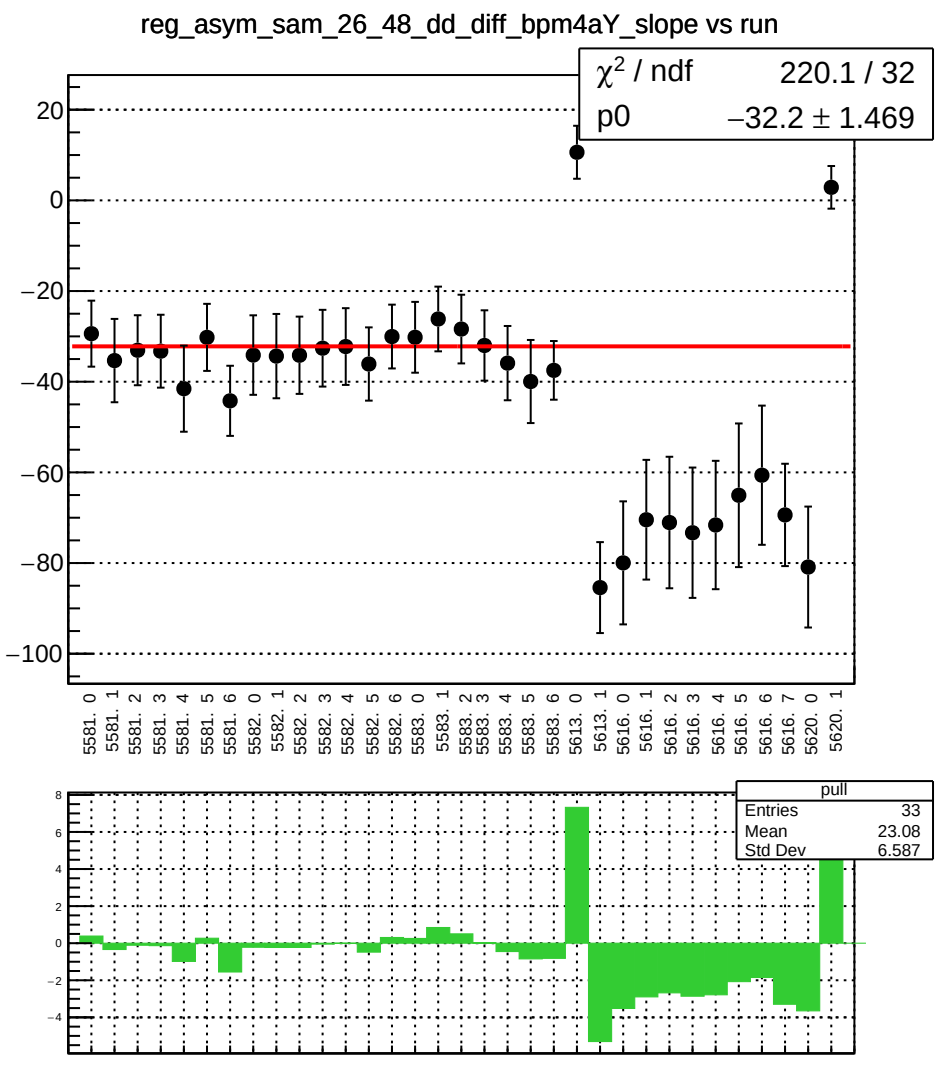

pull1D
Entries 33
Mean −0.1588
Std Dev 0.8856
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

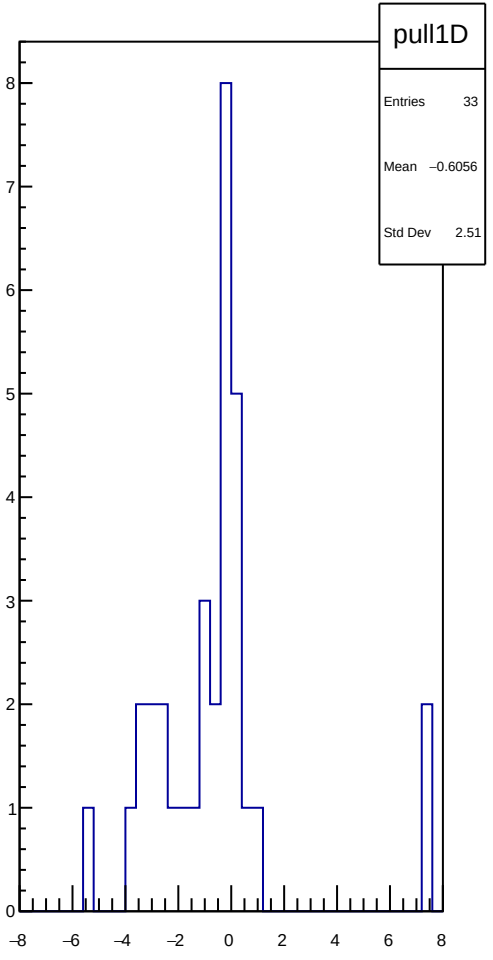

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 1941 / 32
p0 −47.4 ± 2.922
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.54
Std Dev 0
20
15
10
5
0
pull1D
Entries 33
Mean −1.612
Std Dev 2.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

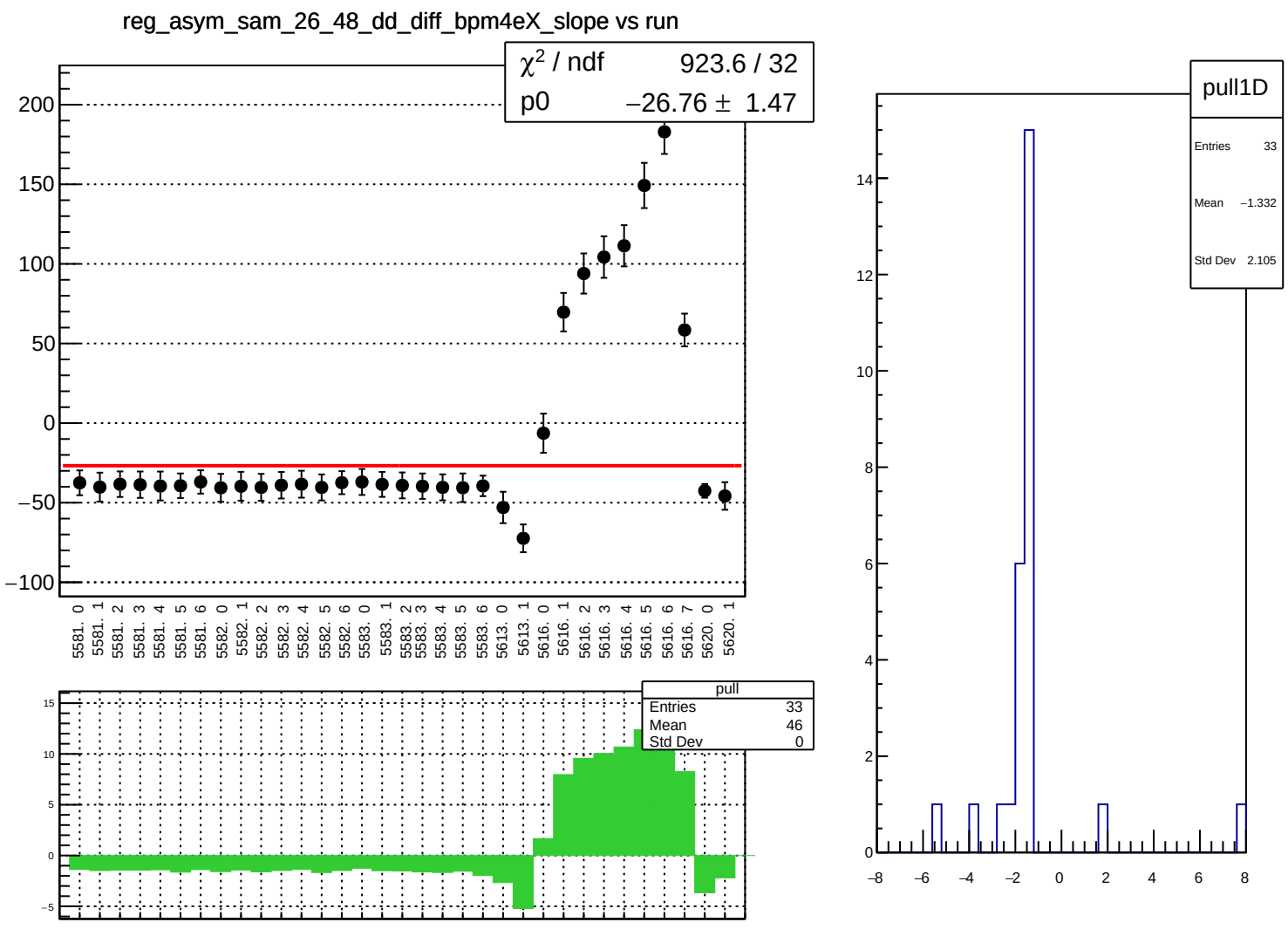

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.81 / 32
p0 −9.847 ± 3.748
100
80
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.62
Std Dev 8.6
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.2128
Std Dev 0.893
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

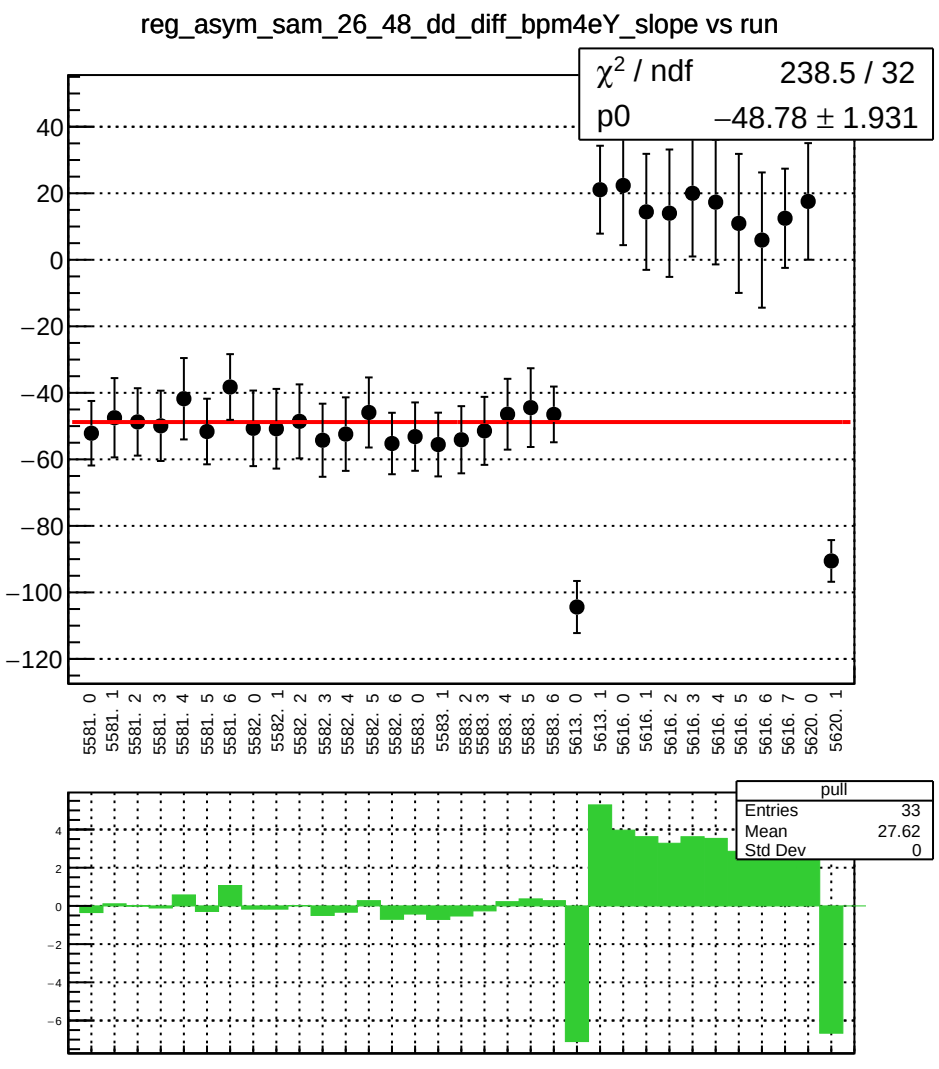

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 1301 / 32
p0 −3.017 ± 0.1472
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 74.61
Std Dev 0
5
0
−5
−10
−15
pull1D
Entries 33
Mean 2.448
Std Dev 1.674
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

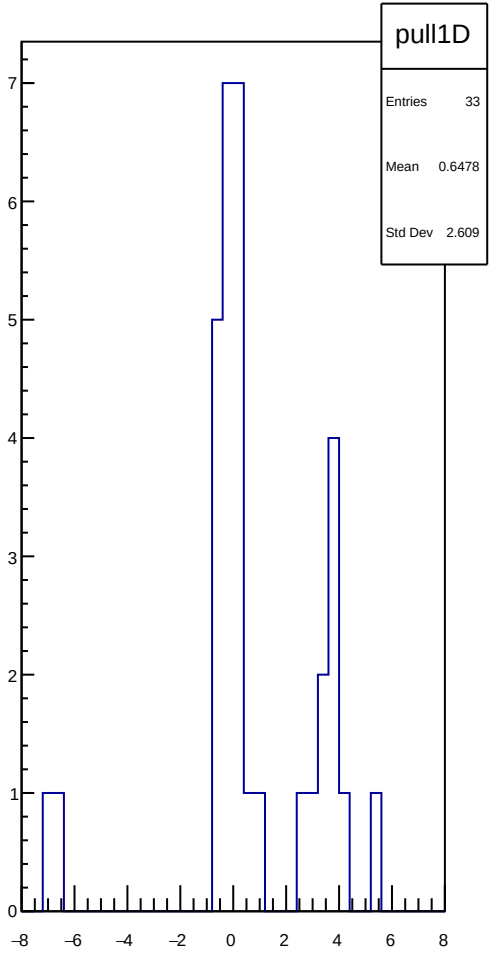

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 944.4 / 32
p0 −18.77 ± 1.811
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 52.61
Std Dev 0
5
0
−5
−10
−15
pull1D
Entries 33
Mean 1.233
Std Dev 2.808
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

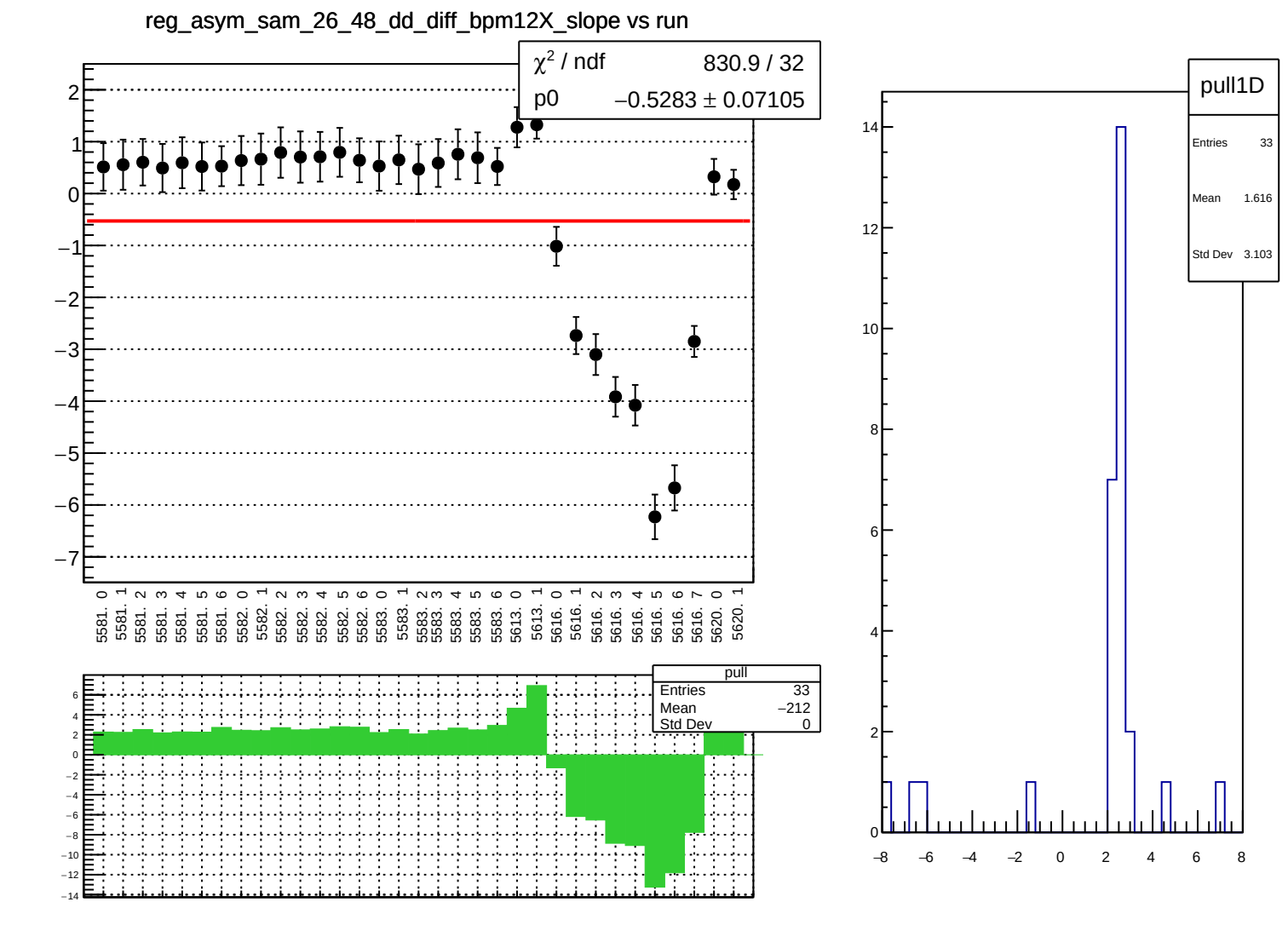

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 220.1 / 32
p0 −32.2 ± 1.469
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.08
Std Dev 6.587
8
6
4
2
0
−2
−4

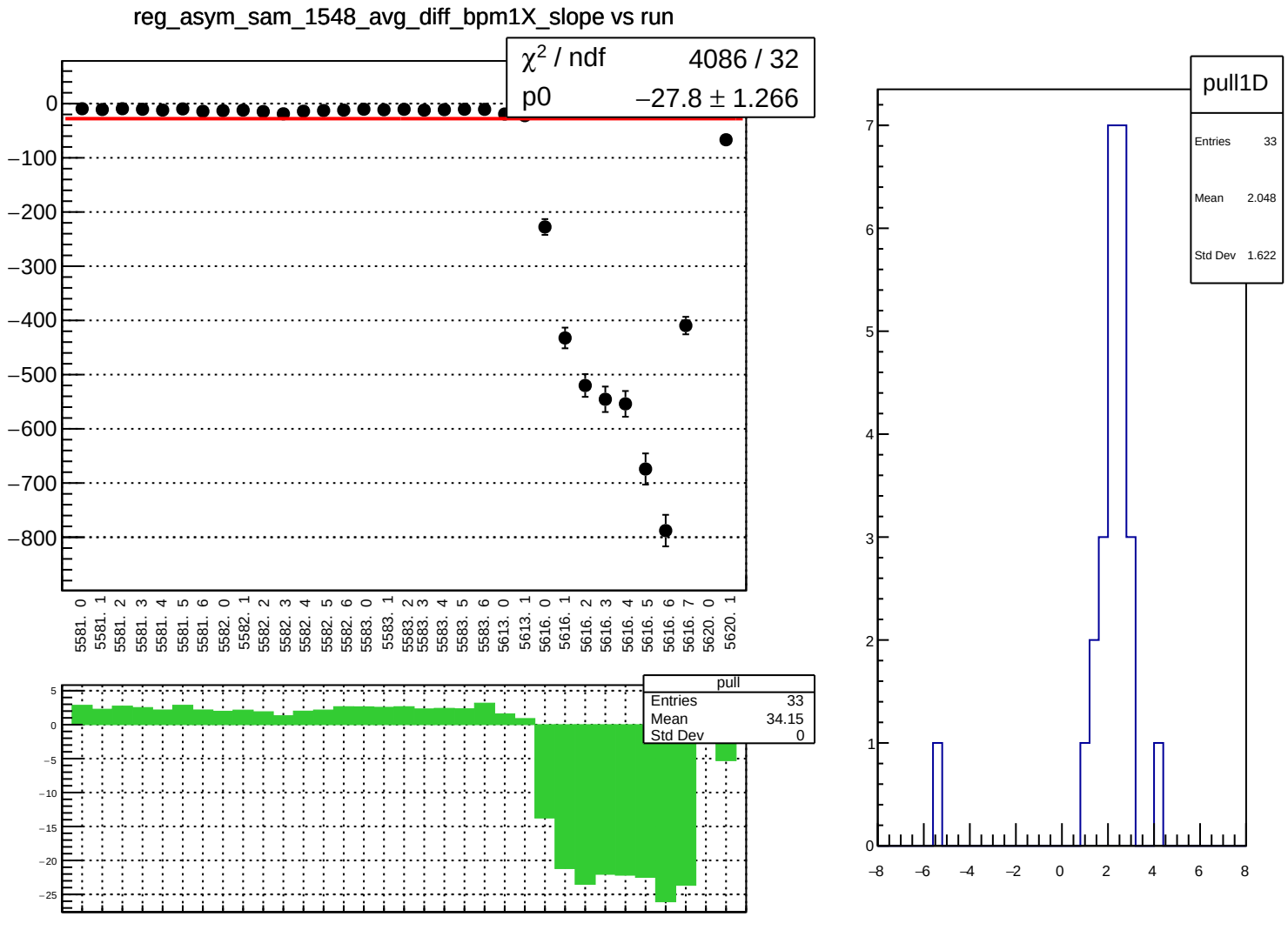

pull1D
Entries 33
Mean −0.6056
Std Dev 2.51
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

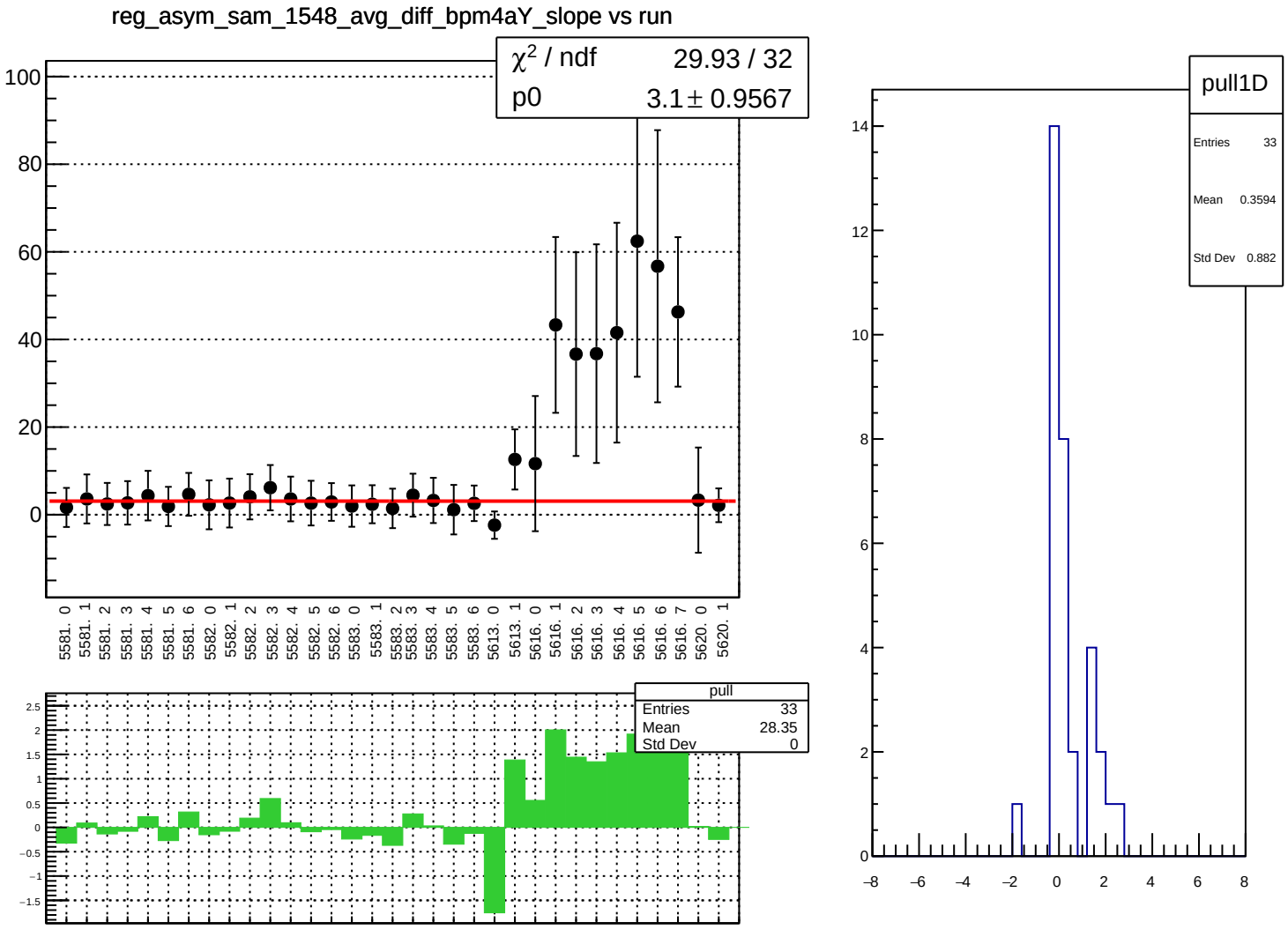

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 923.6 / 32
p0 −26.76 ± 1.47
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 46
Std Dev 0
15
10
5
0
−5
pull1D
Entries 33
Mean −1.332
Std Dev 2.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

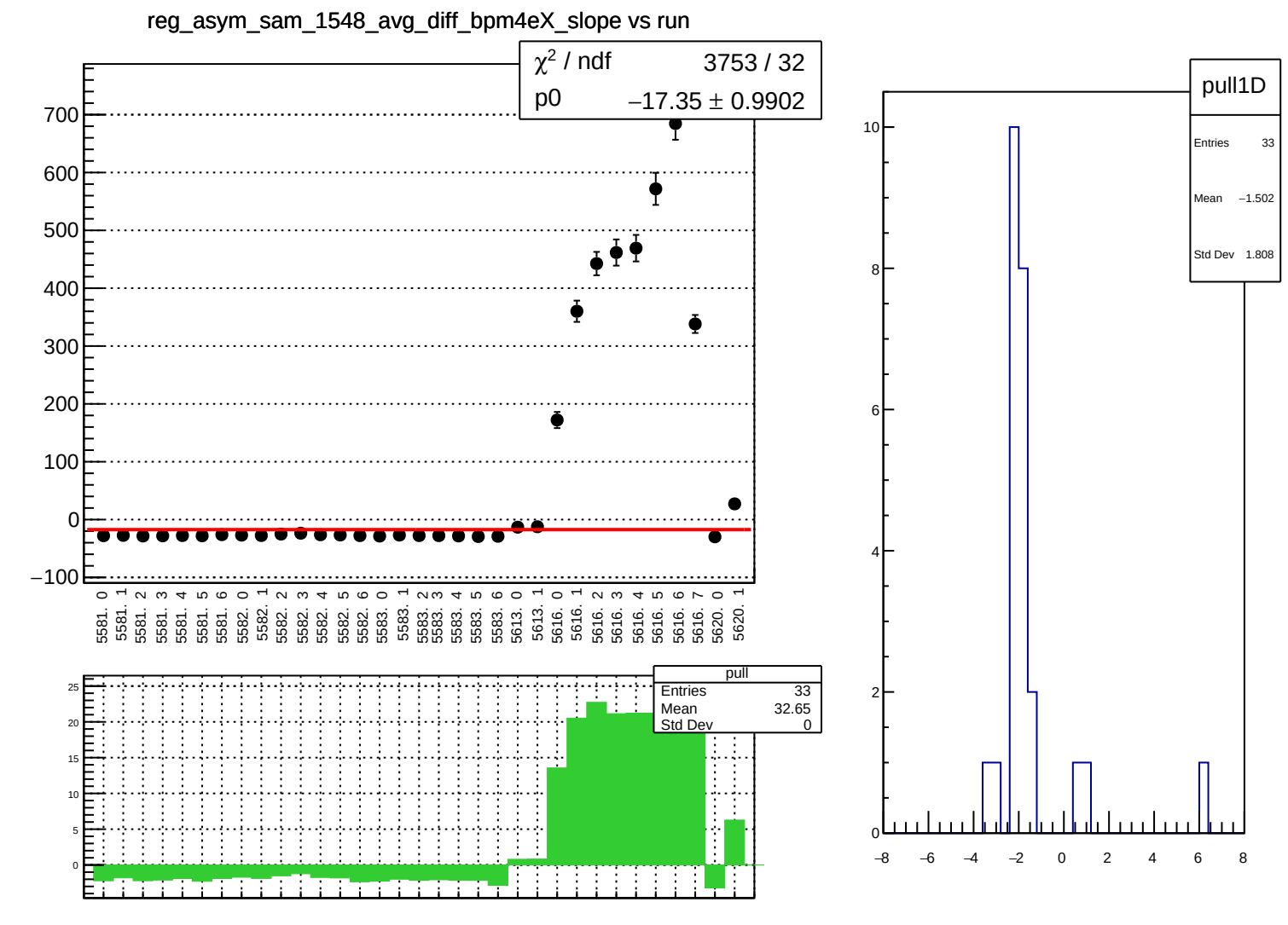

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 238.5 / 32
p0 −48.78 ± 1.931
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 27.62
Std Dev 0
4
2
0
−2
−4
−6

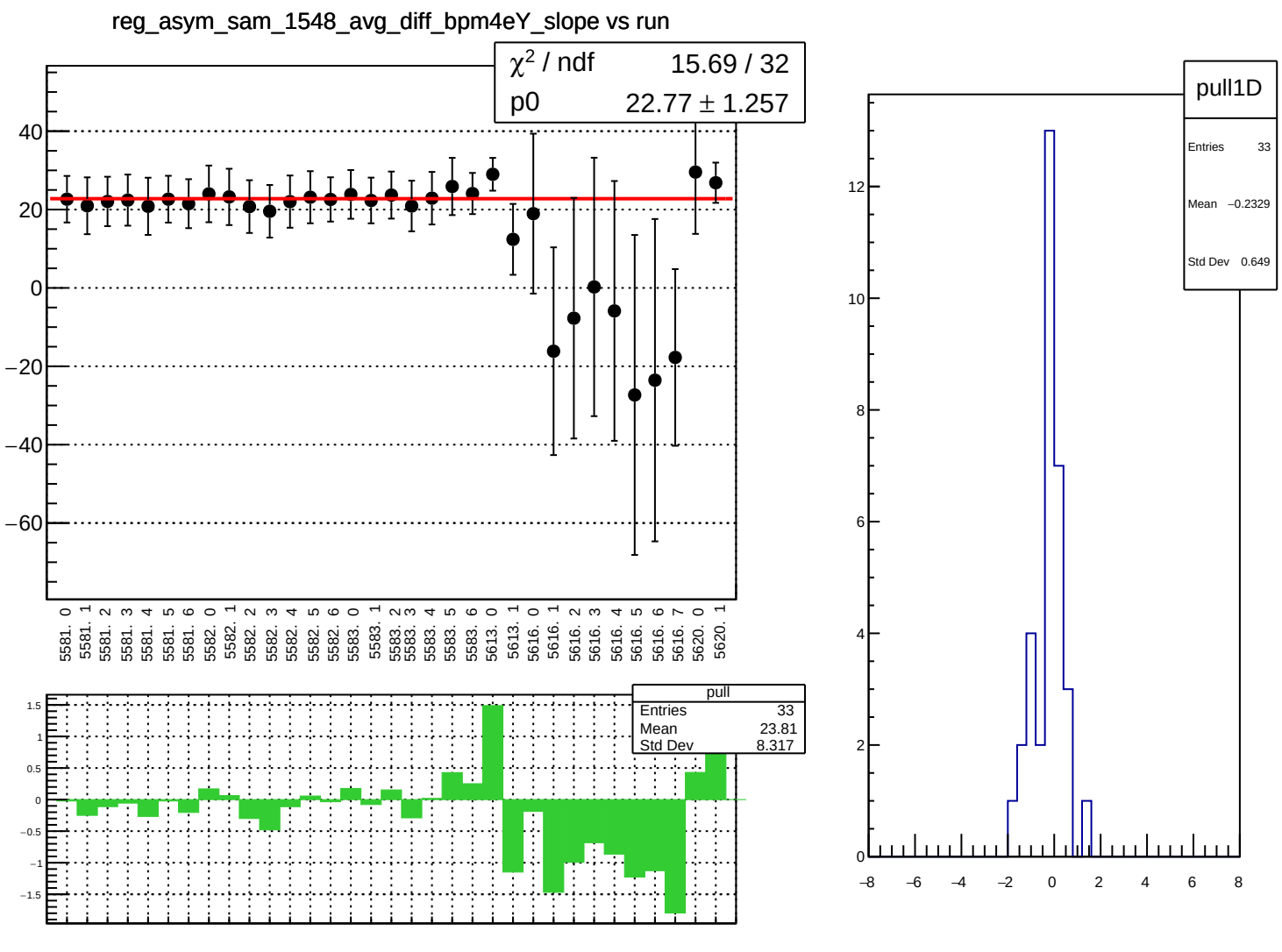

pull1D
Entries 33
Mean 0.6478
Std Dev 2.609
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

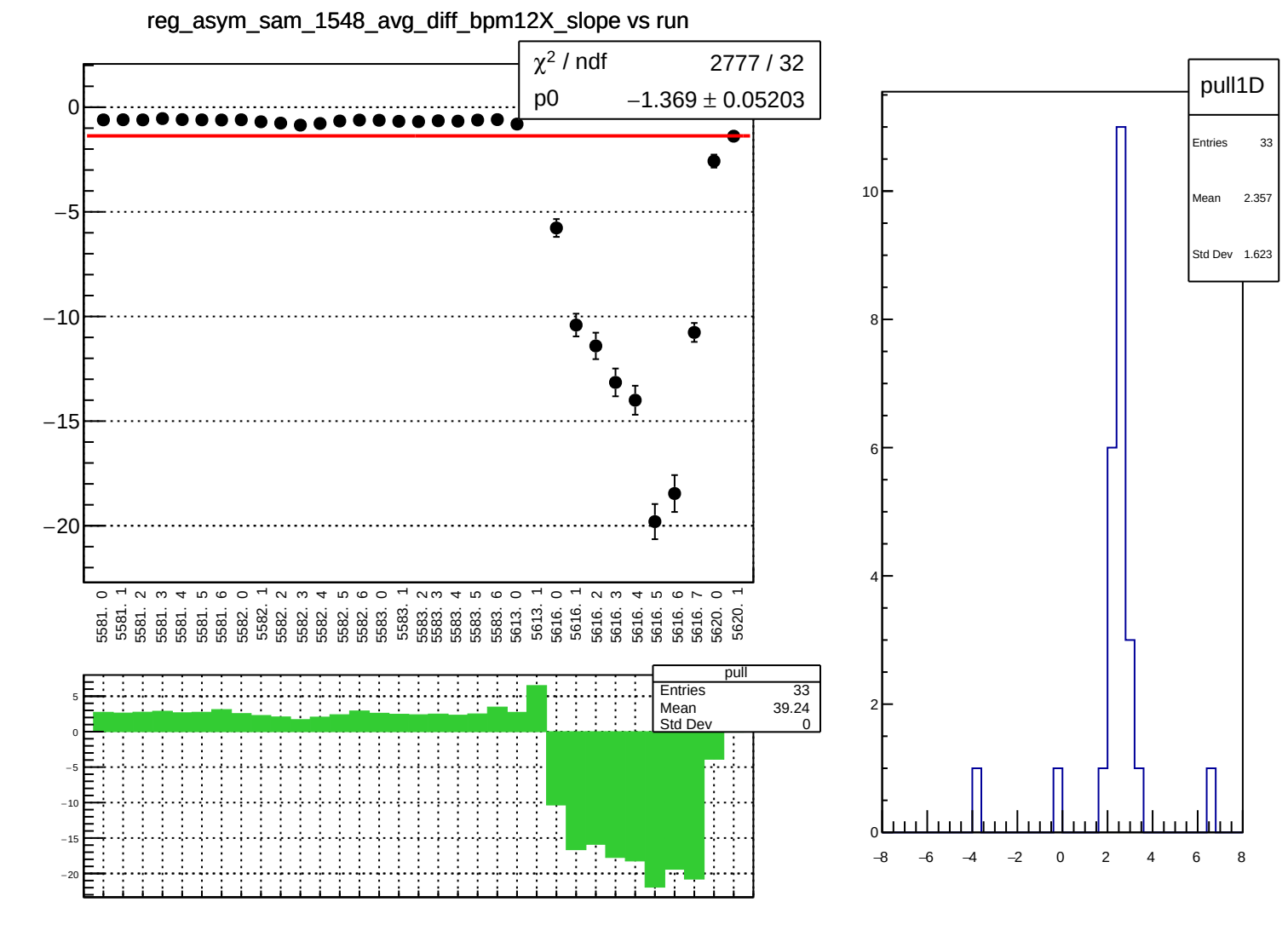

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 830.9 / 32
p0 −0.5283 ± 0.07105
pull
Entries 33
Mean −212
Std Dev 0
pull1D
Entries 33
Mean 1.616
Std Dev 3.103

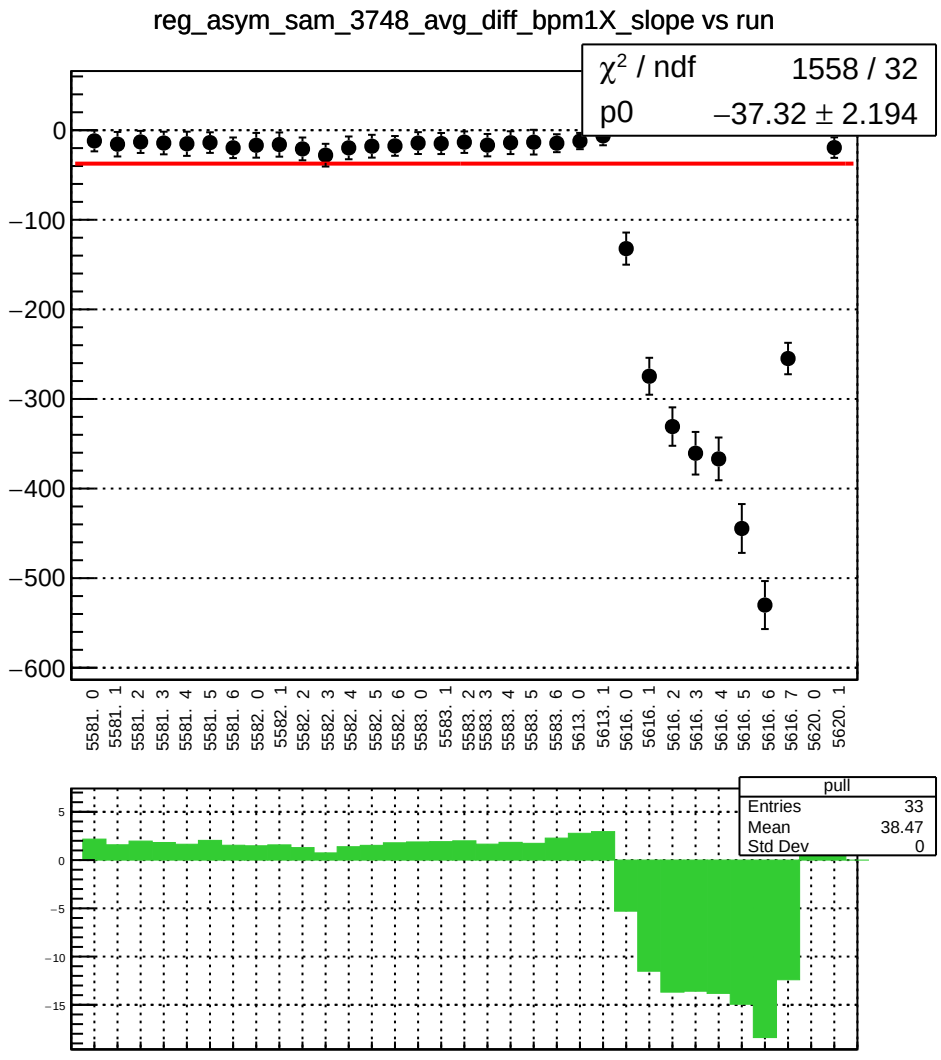

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 4086 / 32
p0 −27.8 ± 1.266
0
−100
−200
−300
−400
−500
−600
−700
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.15
Std Dev 0
5
0
−5
−10
−15
−20
−25
pull1D
Entries 33
Mean 2.048
Std Dev 1.622
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

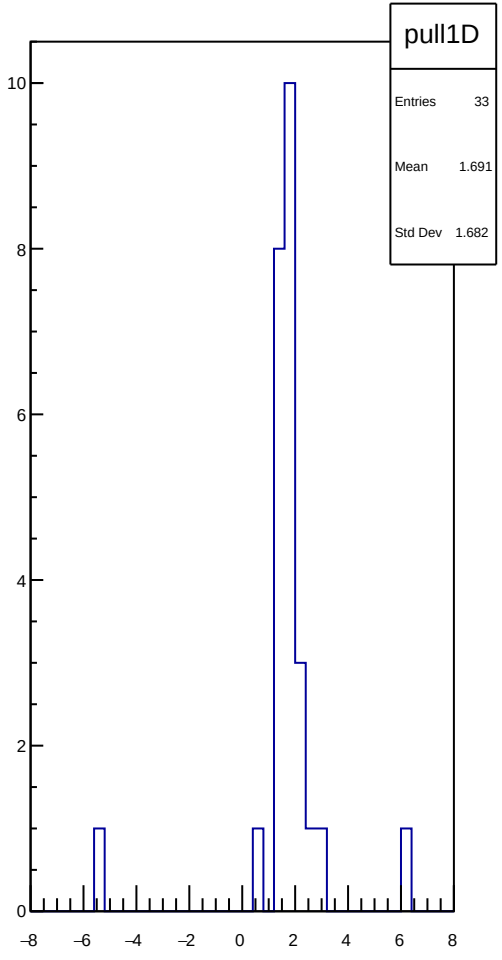

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.93 / 32
p0 3.1 ± 0.9567
100
80
60
40
20
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.35
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.3594
Std Dev 0.882
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

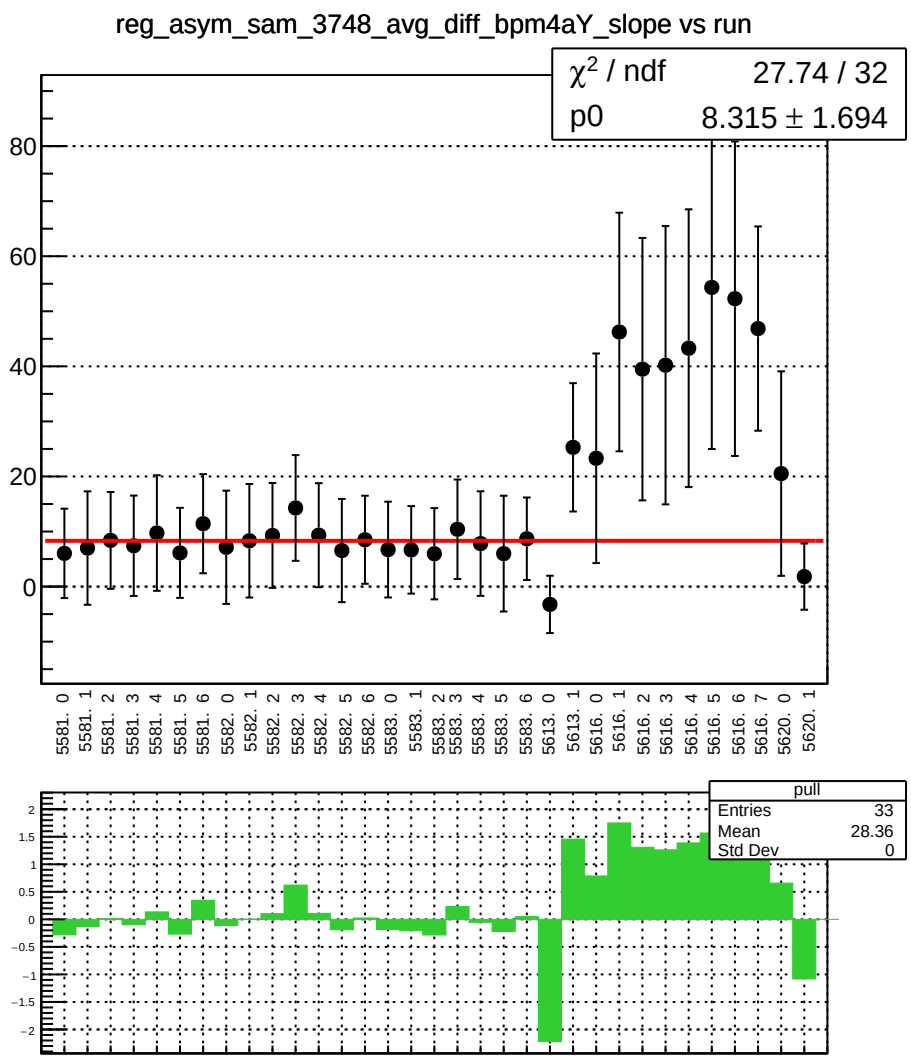

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 3753 / 32
p0 −17.35 ± 0.9902
700
600
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 32.65
Std Dev 0
25
20
15
10
5
0
pull1D
Entries 33
Mean −1.502
Std Dev 1.808
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

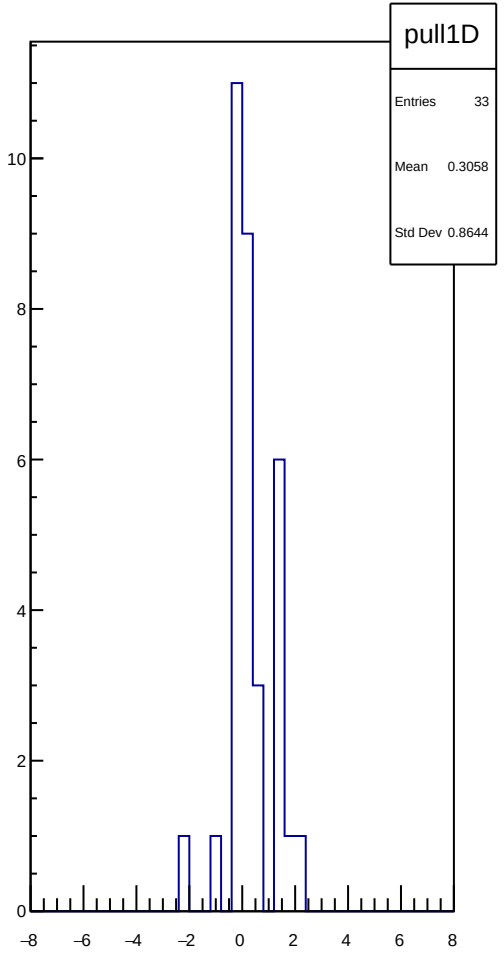

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.69 / 32
p0 22.77 ± 1.257
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.81
Std Dev 8.317
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.2329
Std Dev 0.649
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

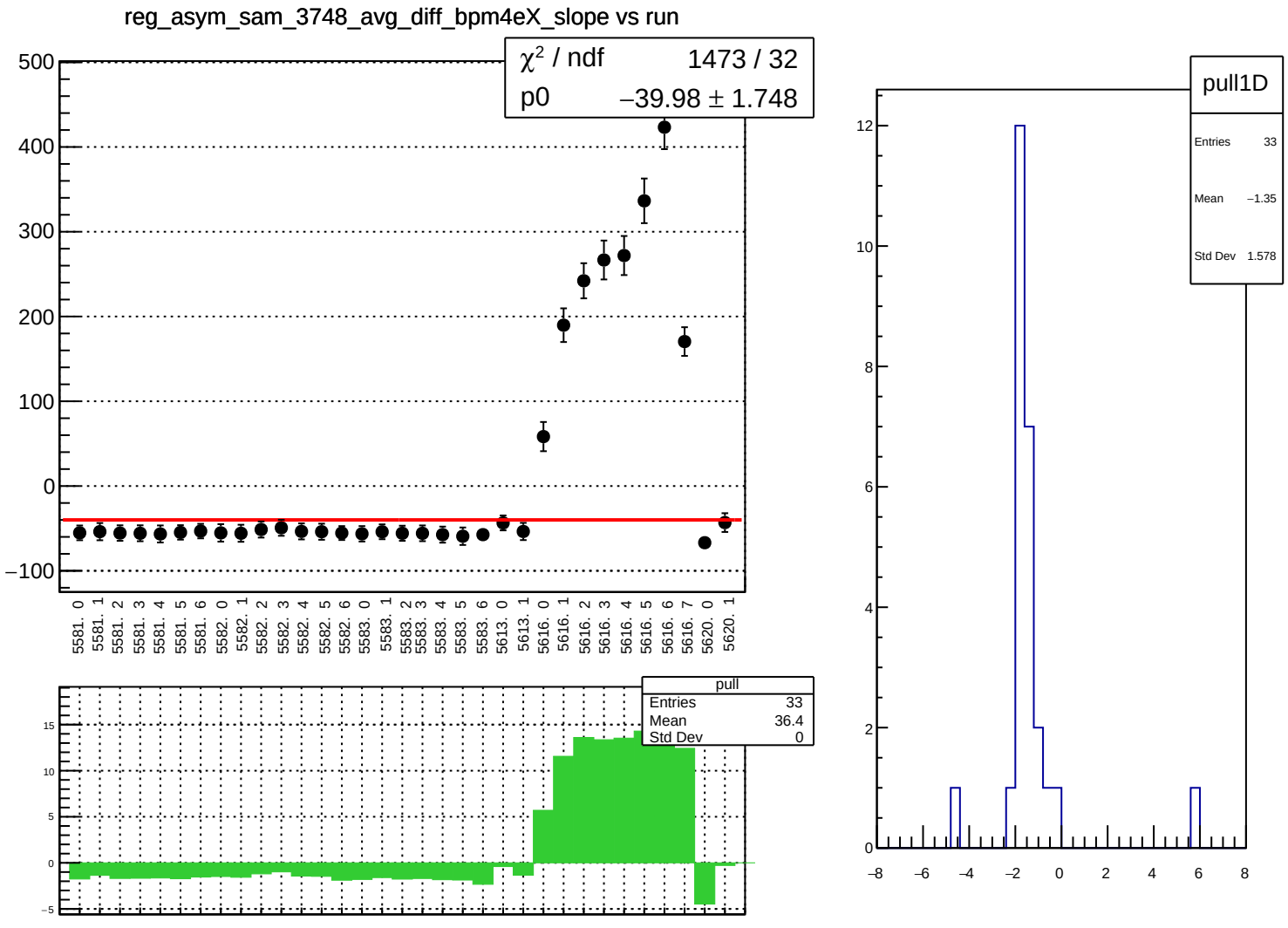

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 2777 / 32
p0 −1.369 ± 0.05203
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.24
Std Dev 0
5
0
−5
−10
−15
−20
pull1D
Entries 33
Mean 2.357
Std Dev 1.623
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

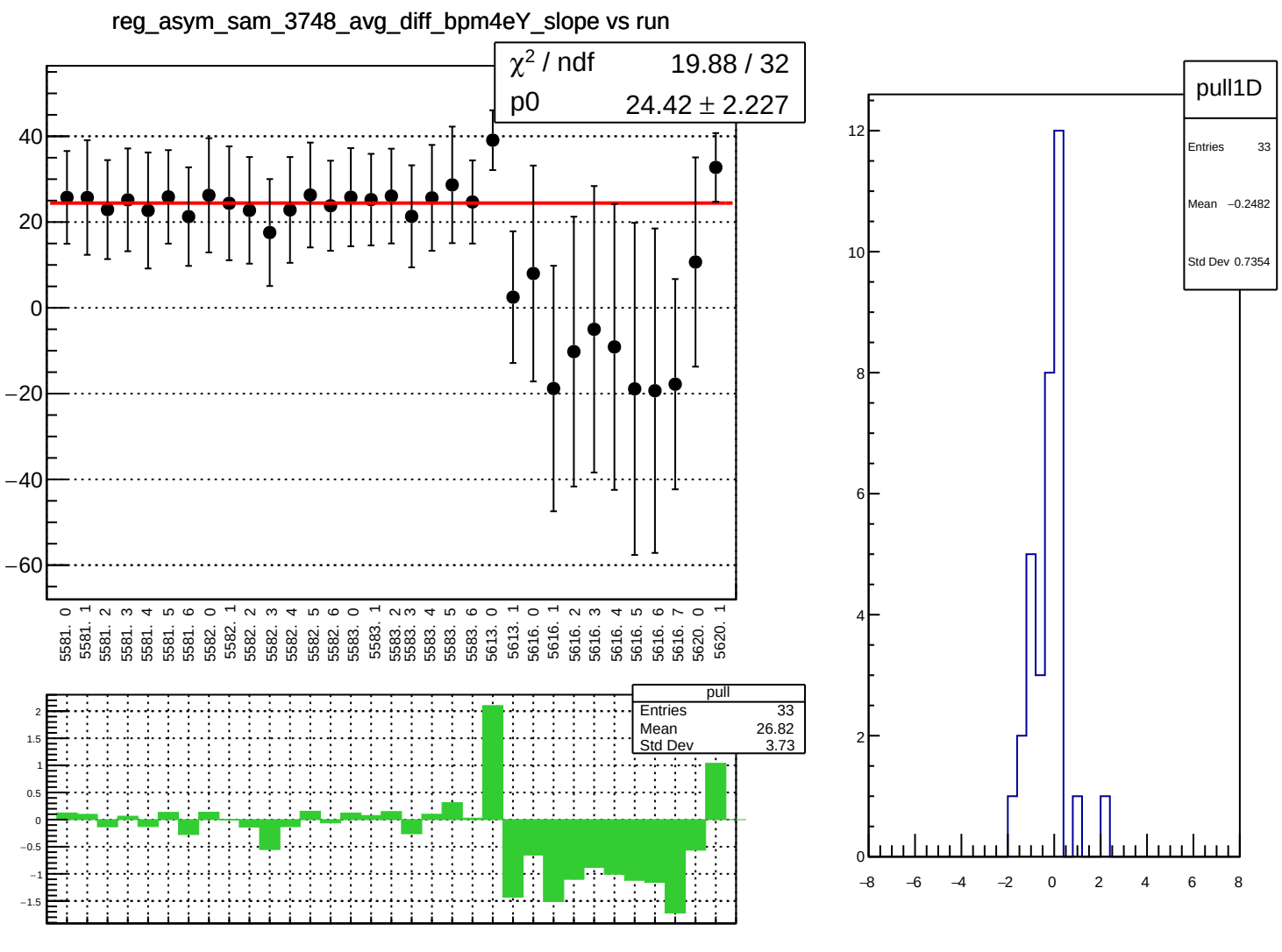

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 1558 / 32
p0 −37.32 ± 2.194
0
−100
−200
−300
−400
−500
−600
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.47
Std Dev 0
5
0
−5
−10
−15

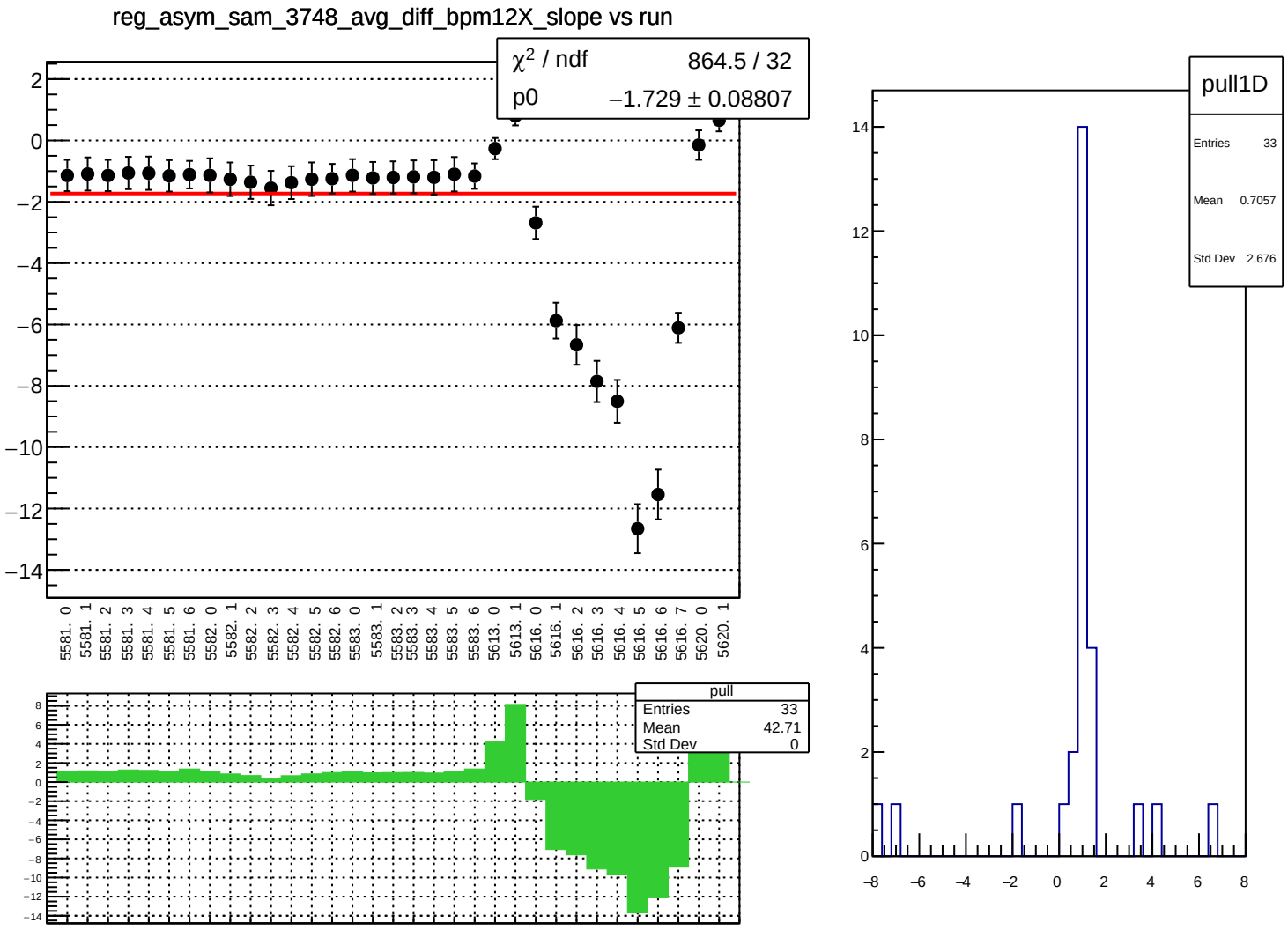

pull1D
Entries 33
Mean 1.691
Std Dev 1.682
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

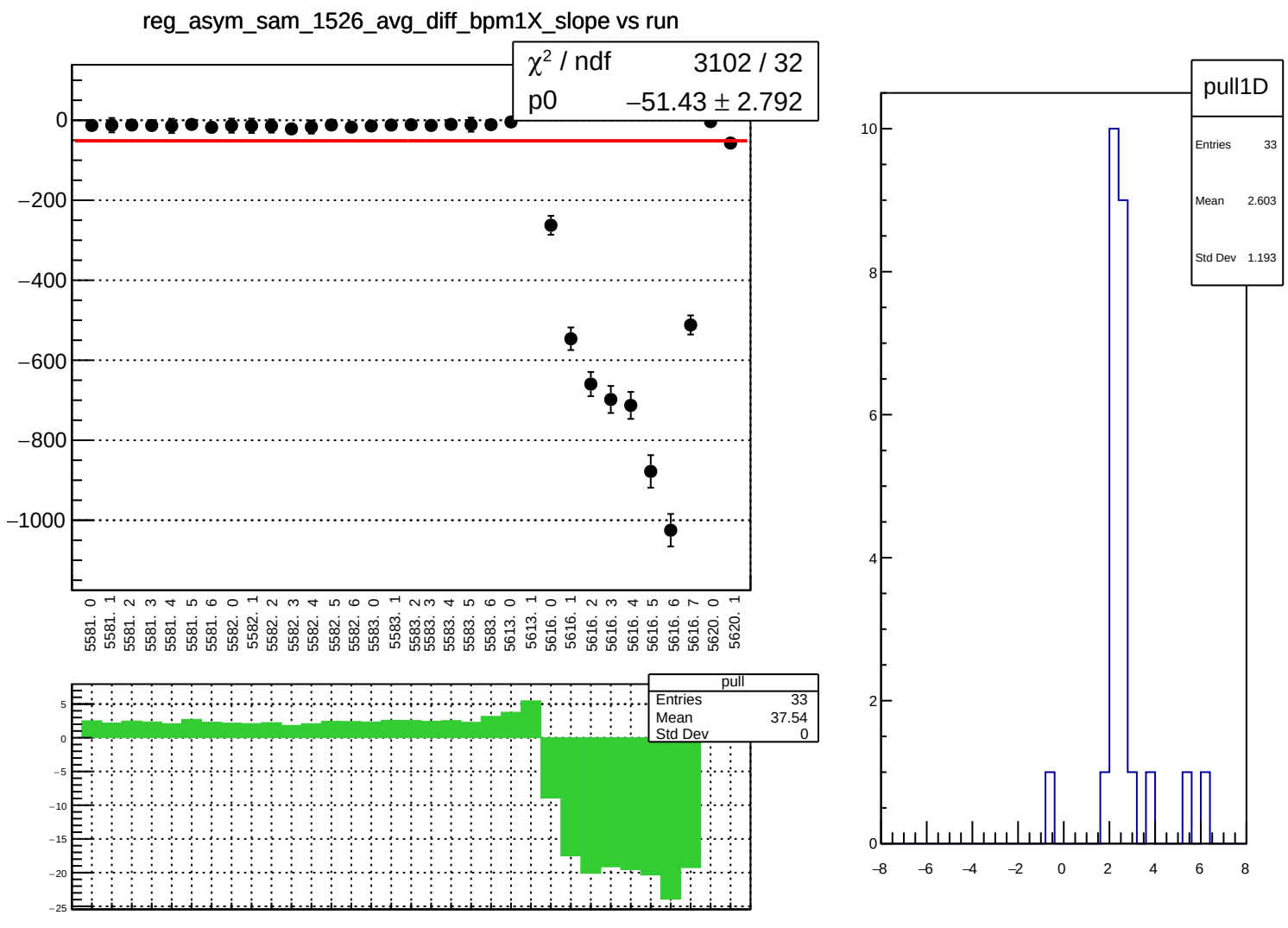

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.74 / 32
p0 8.315 ± 1.694
80
60
40
20
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 28.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

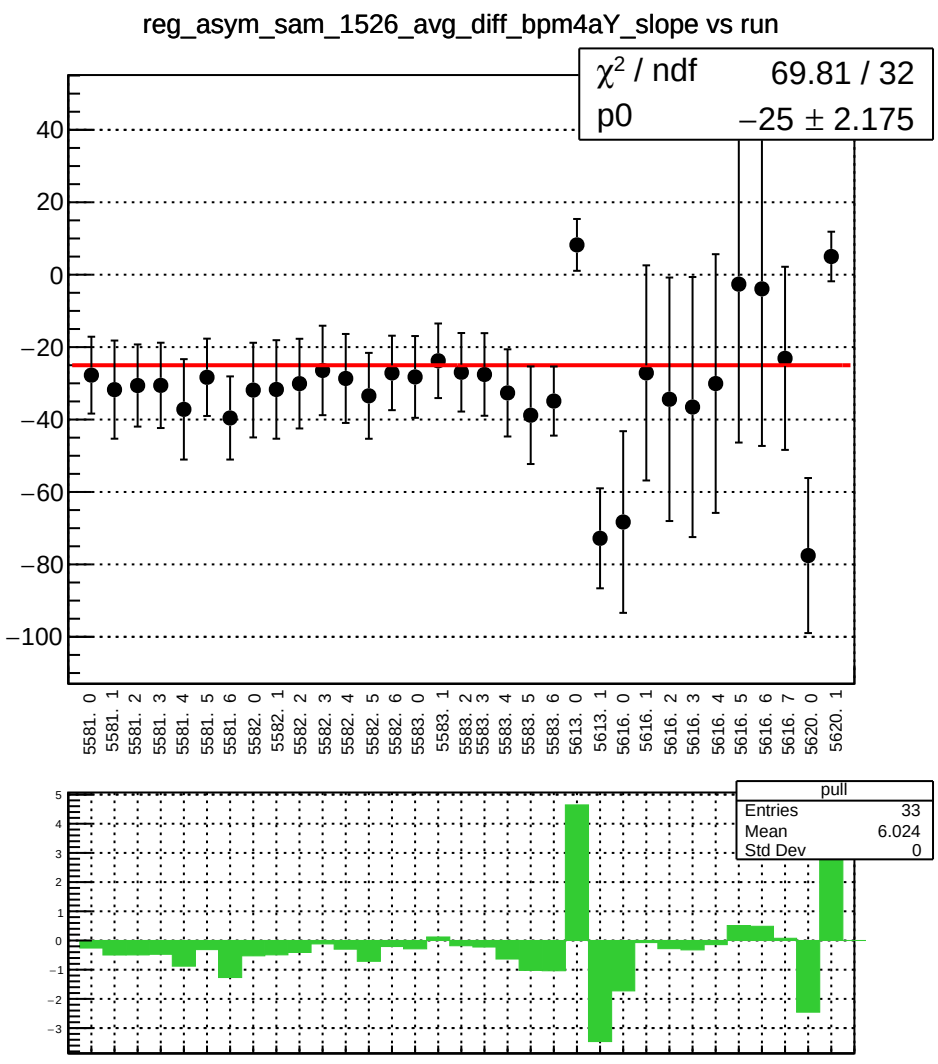

pull1D
Entries 33
Mean 0.3058
Std Dev 0.8644
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

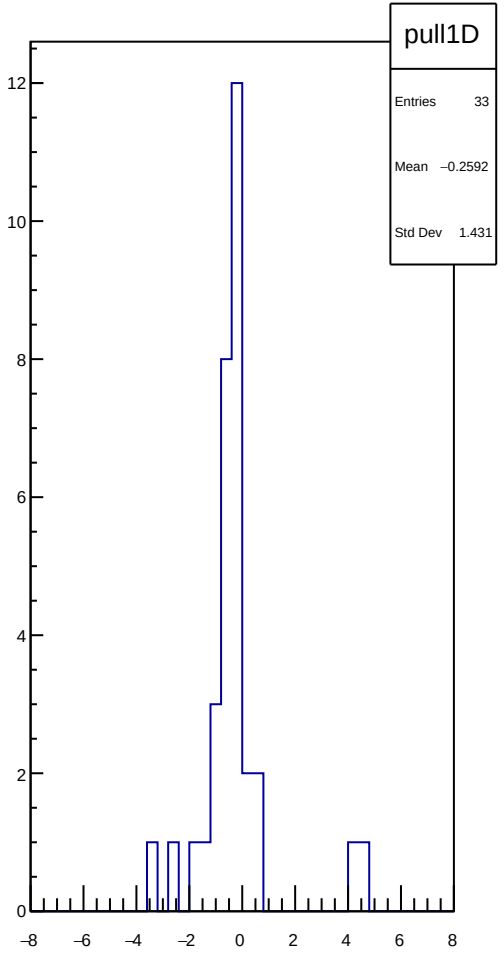

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 1473 / 32
p0 −39.98 ± 1.748
pull
Entries 33
Mean 36.4
Std Dev 0
pull1D
Entries 33
Mean −1.35
Std Dev 1.578

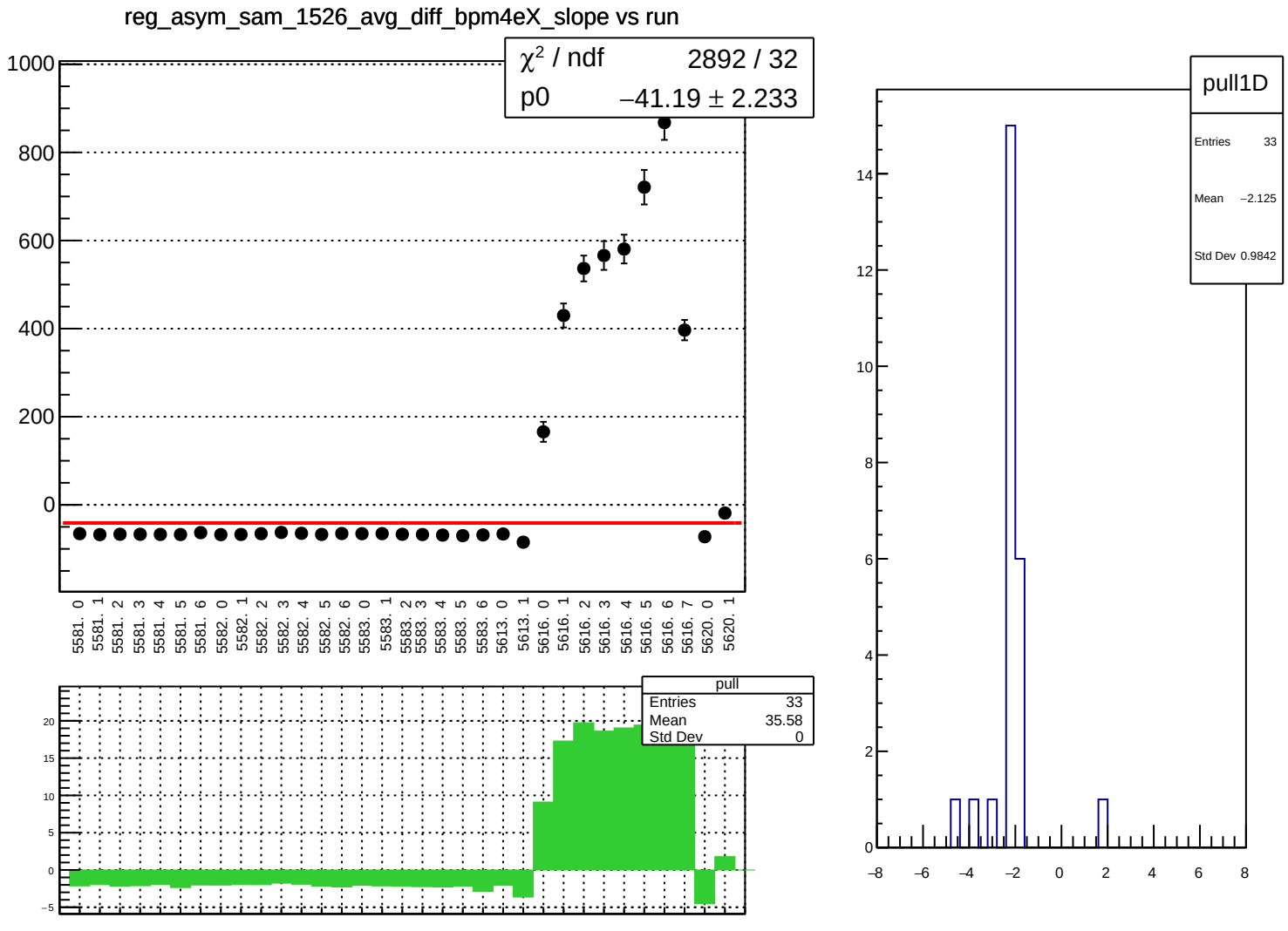

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.88 / 32
p0 24.42 ± 2.227
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.82
Std Dev 3.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.2482
Std Dev 0.7354
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

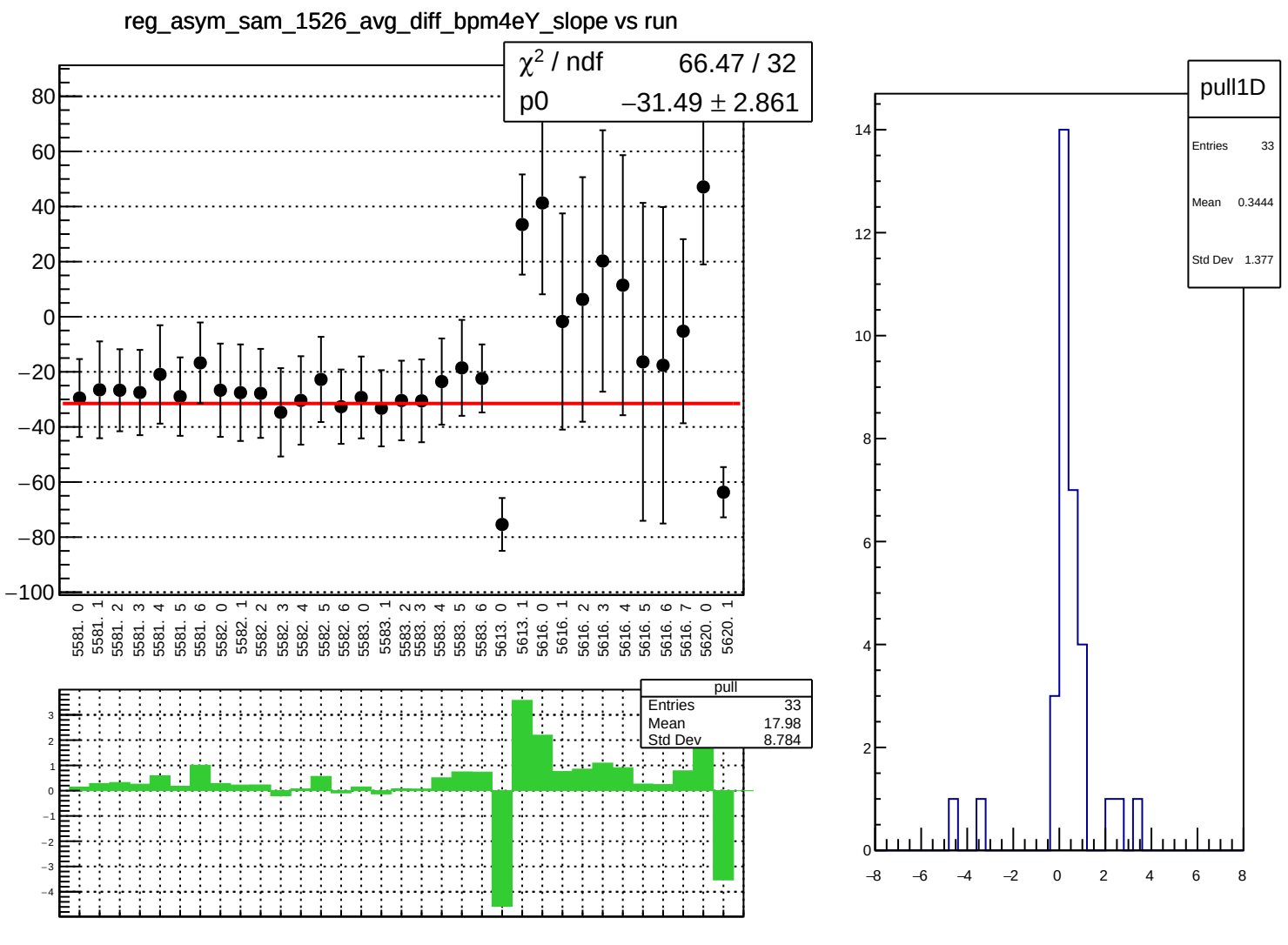

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 864.5 / 32
p0 −1.729 ± 0.08807
pull
Entries 33
Mean 42.71
Std Dev 0
pull1D
Entries 33
Mean 0.7057
Std Dev 2.676

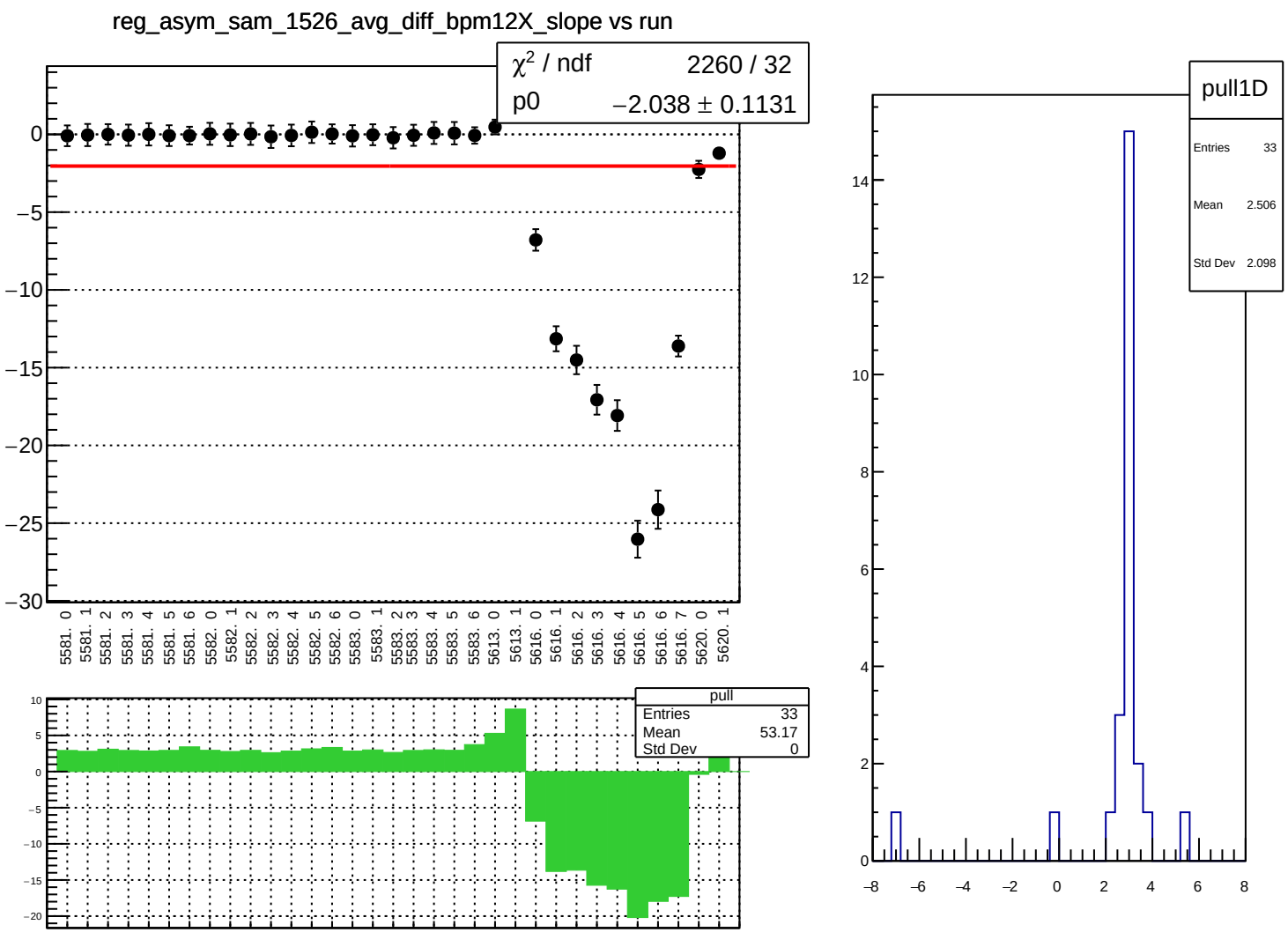

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 3102 / 32
p0 −51.43 ± 2.792
0
−200
−400
−600
−800
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.54
Std Dev 0
5
0
−5
−10
−15
−20
−25
pull1D
Entries 33
Mean 2.603
Std Dev 1.193
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

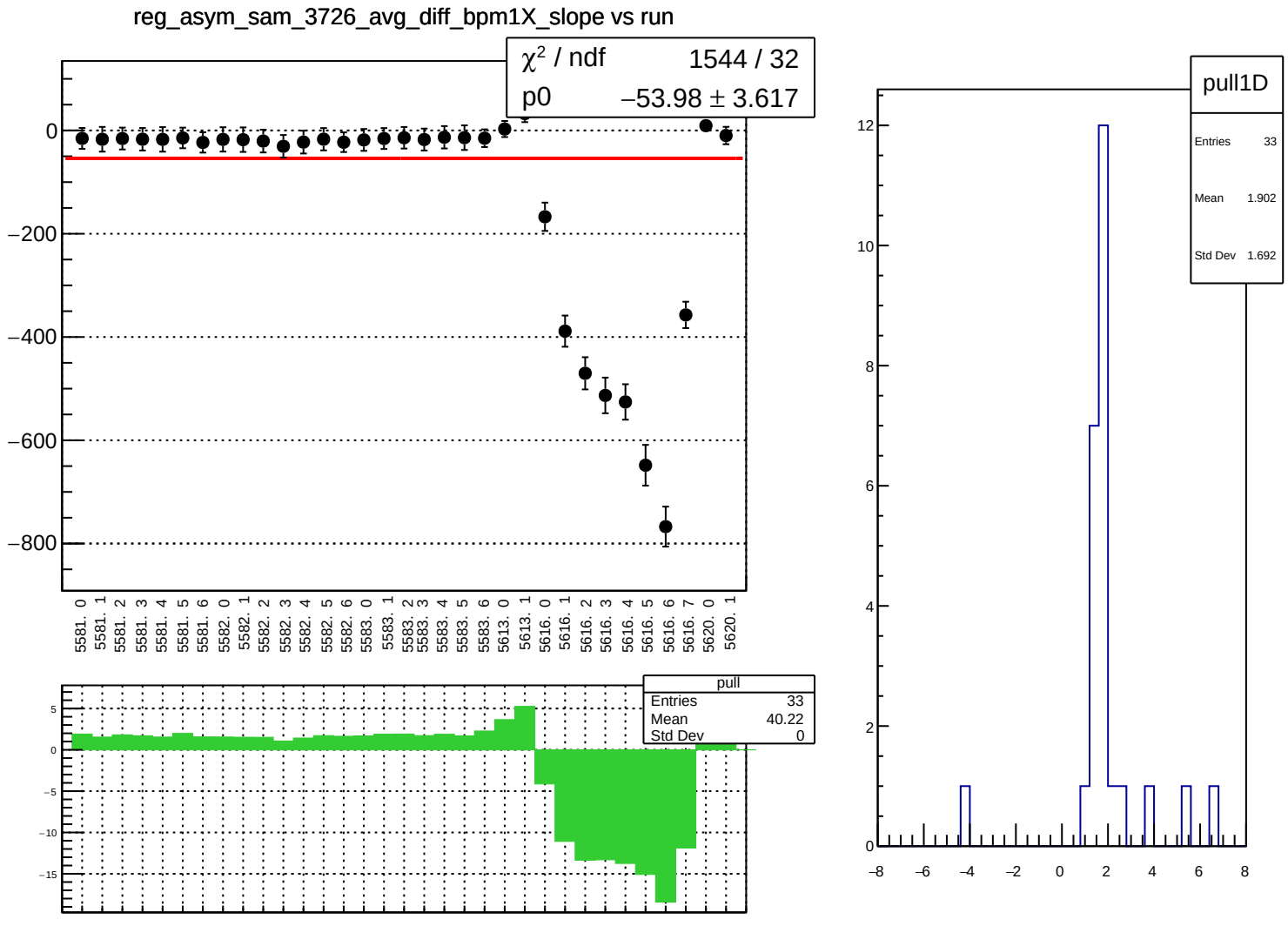

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 69.81 / 32
p0 −25 ± 2.175
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 6.024
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

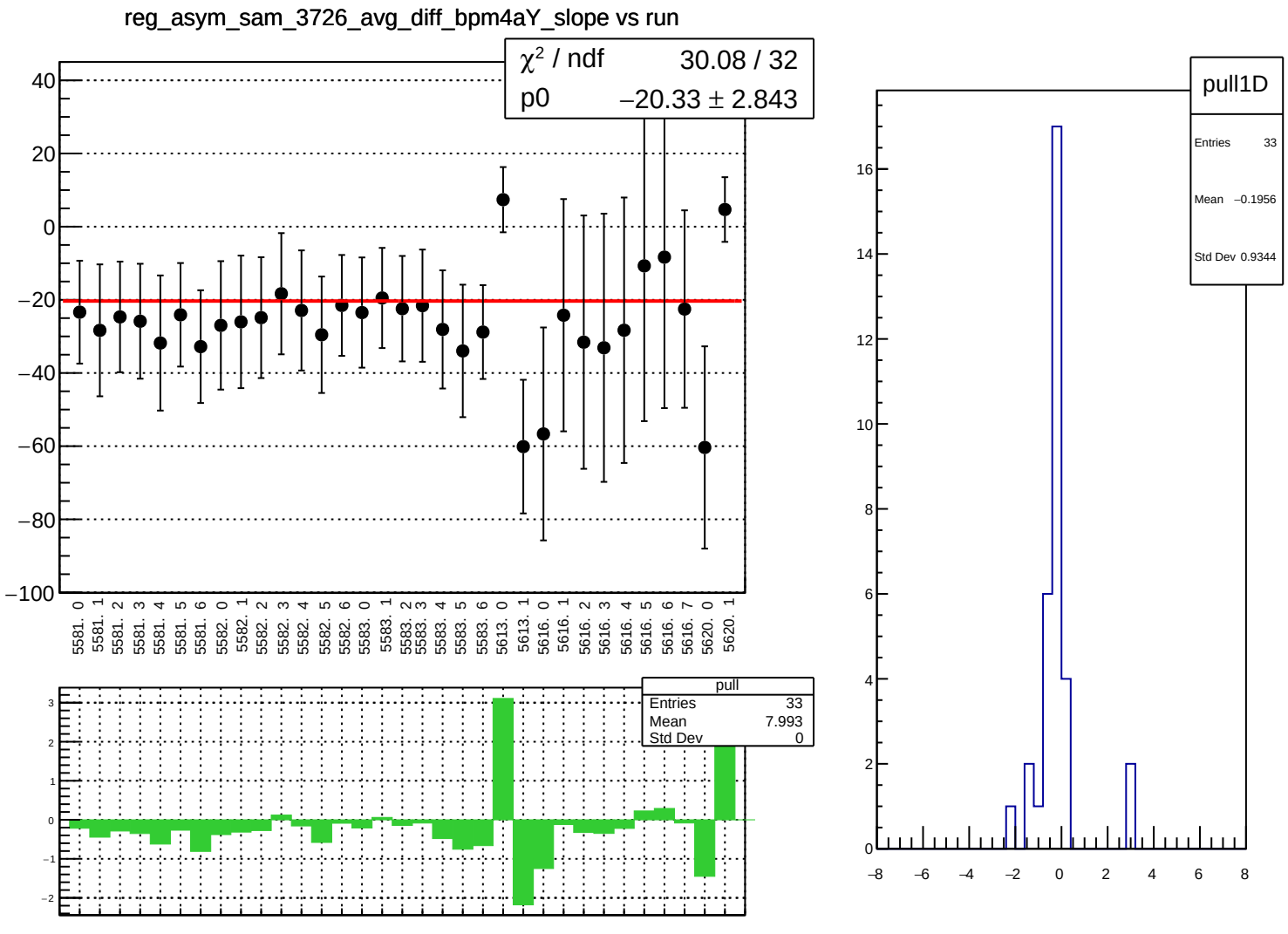

pull1D
Entries 33
Mean −0.2592
Std Dev 1.431
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

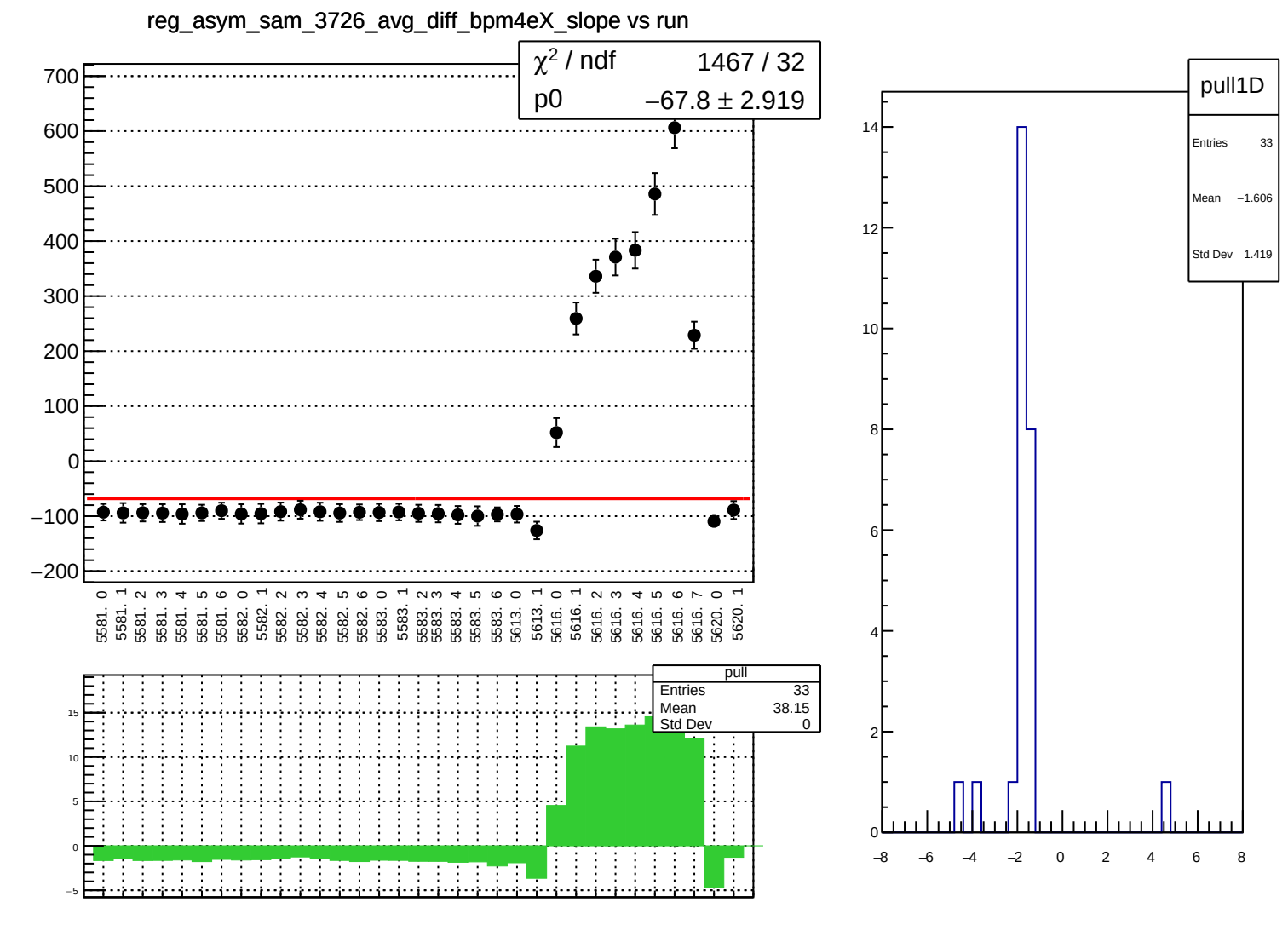

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 2892 / 32
p0 −41.19 ± 2.233
1000
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.58
Std Dev 0
20
15
10
5
0
−5
pull1D
Entries 33
Mean −2.125
Std Dev 0.9842
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

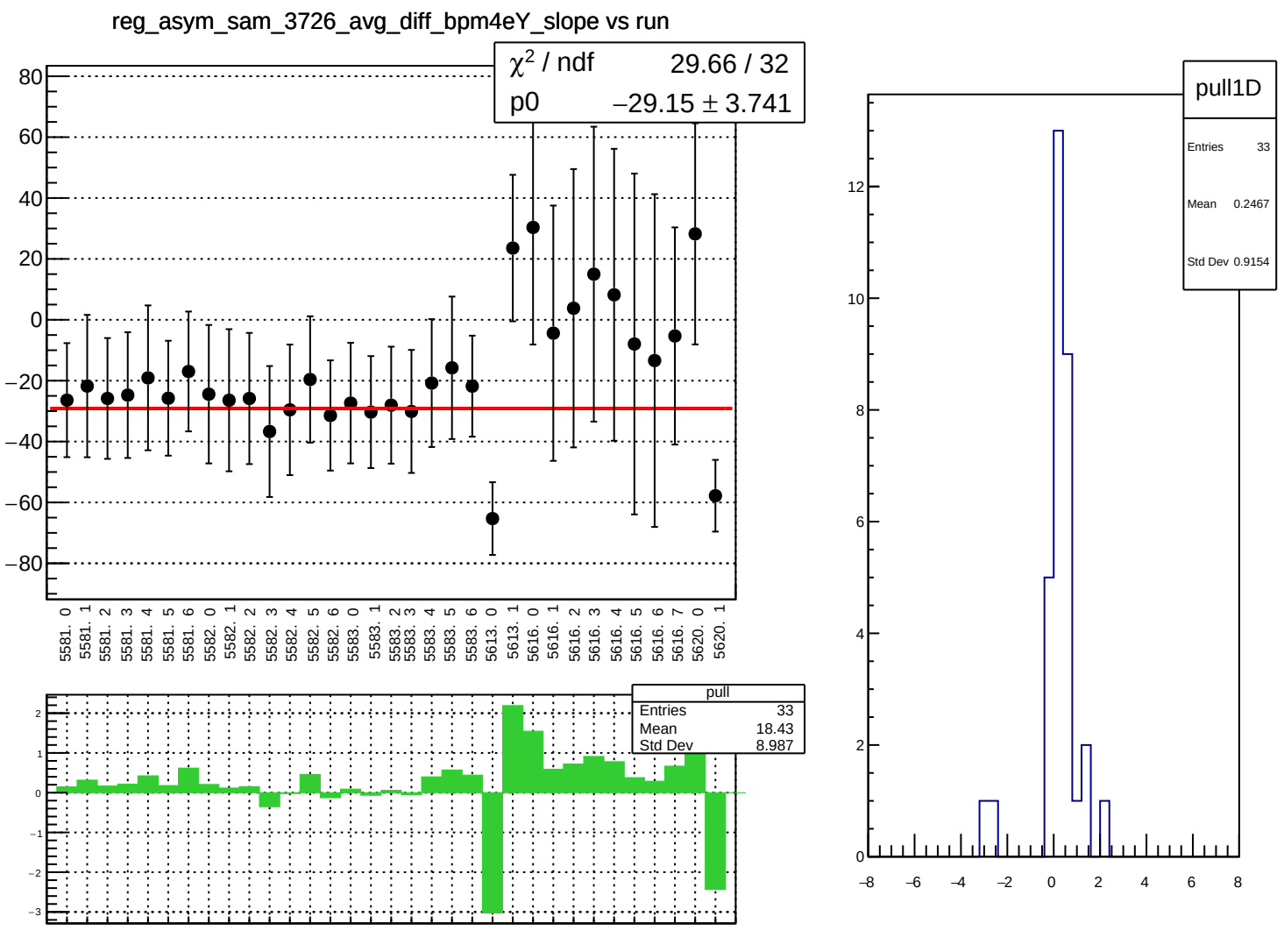

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.47 / 32
p0 −31.49 ± 2.861
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.98
Std Dev 8.784
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 33
Mean 0.3444
Std Dev 1.377
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

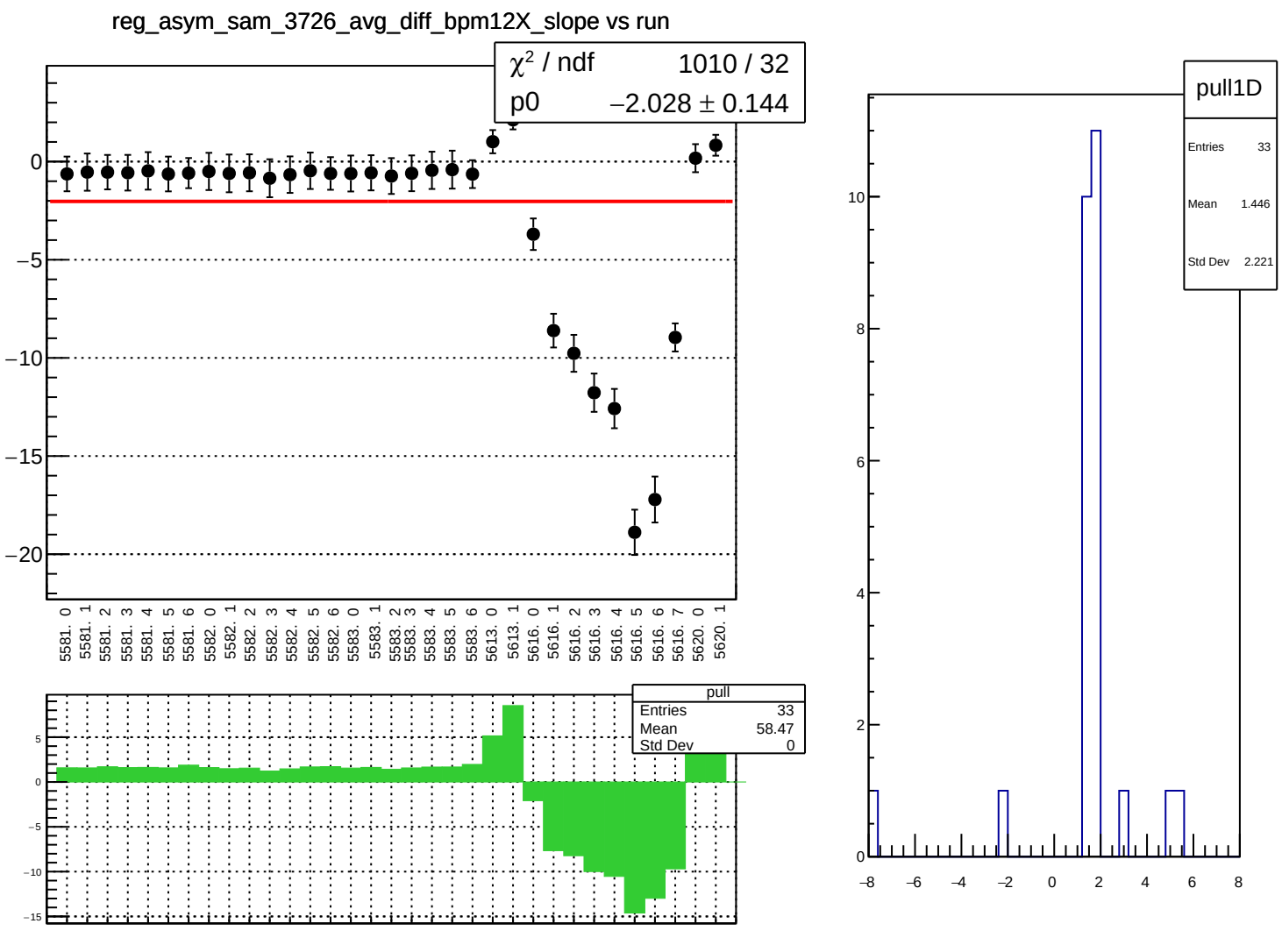

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 2260 / 32
p0 −2.038 ± 0.1131
0
−5
−10
−15
−20
−25
−30
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 53.17
Std Dev 0
10
5
0
−5
−10
−15
−20
pull1D
Entries 33
Mean 2.506
Std Dev 2.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

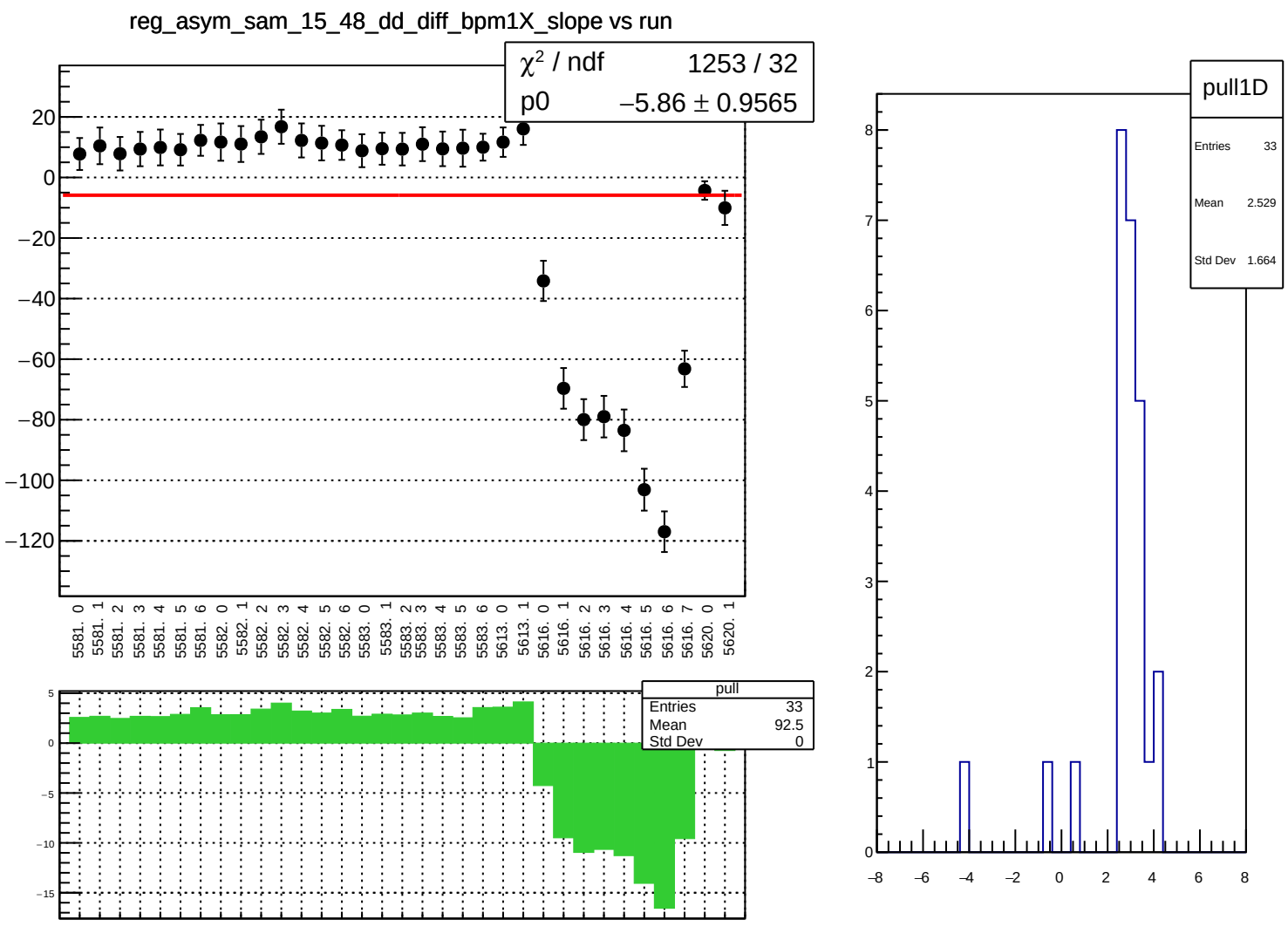

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 1544 / 32
p0 −53.98 ± 3.617
0
−200
−400
−600
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.22
Std Dev 0
5
0
−5
−10
−15
pull1D
Entries 33
Mean 1.902
Std Dev 1.692
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

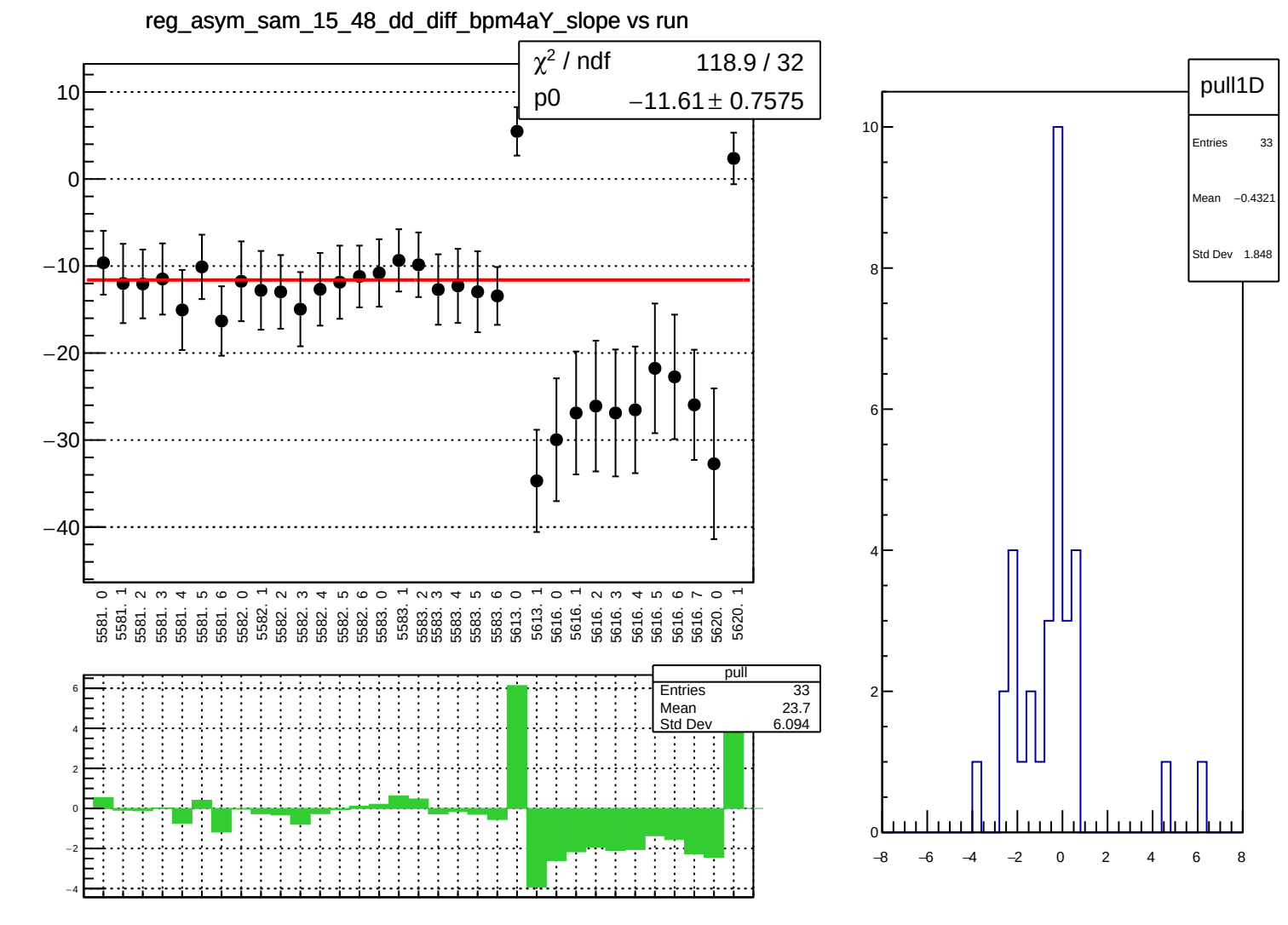

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.08 / 32
p0 −20.33 ± 2.843
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 7.993
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.1956
Std Dev 0.9344
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

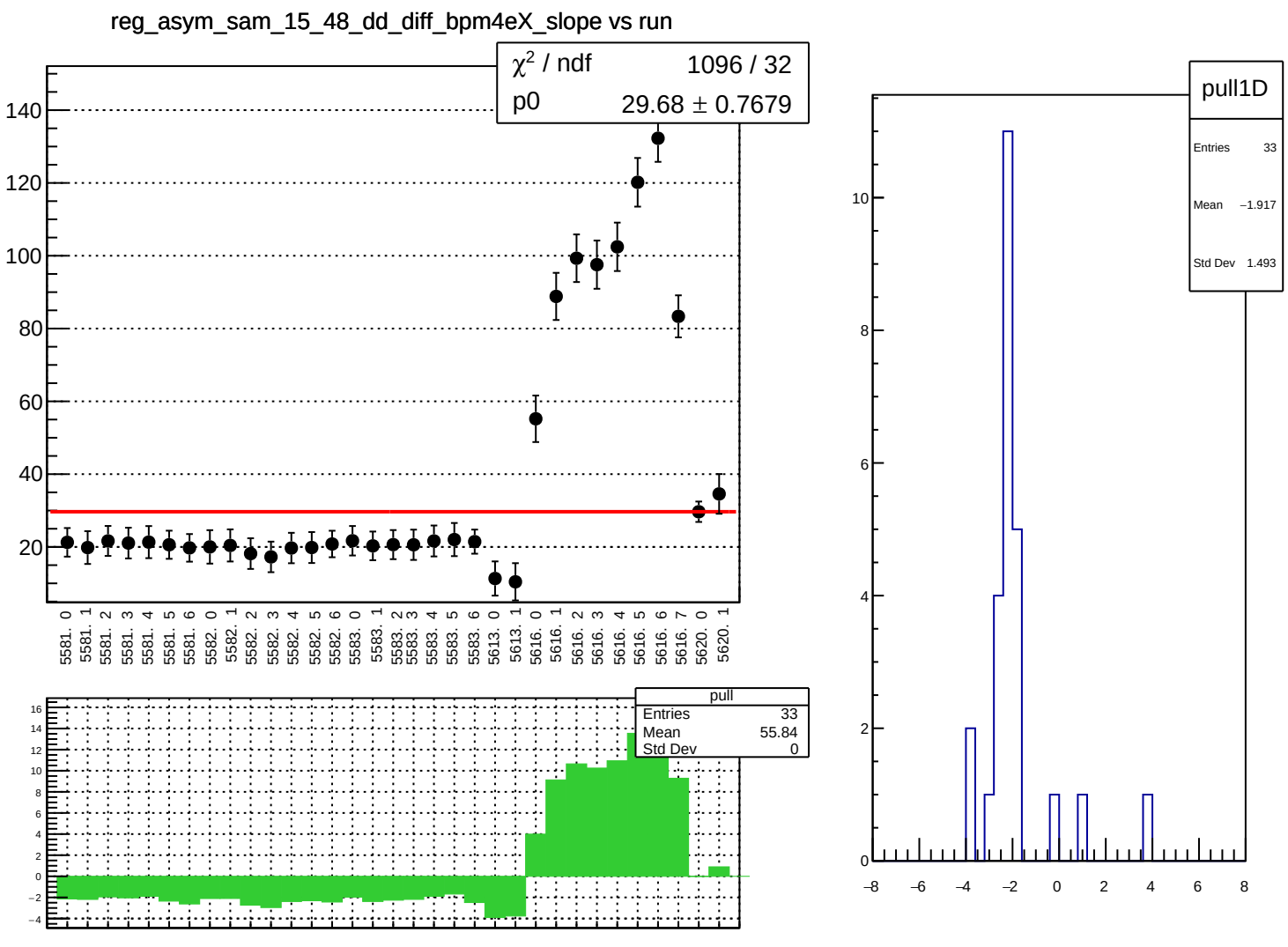

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 1467 / 32
p0 −67.8 ± 2.919
pull
Entries 33
Mean 38.15
Std Dev 0
pull1D
Entries 33
Mean −1.606
Std Dev 1.419

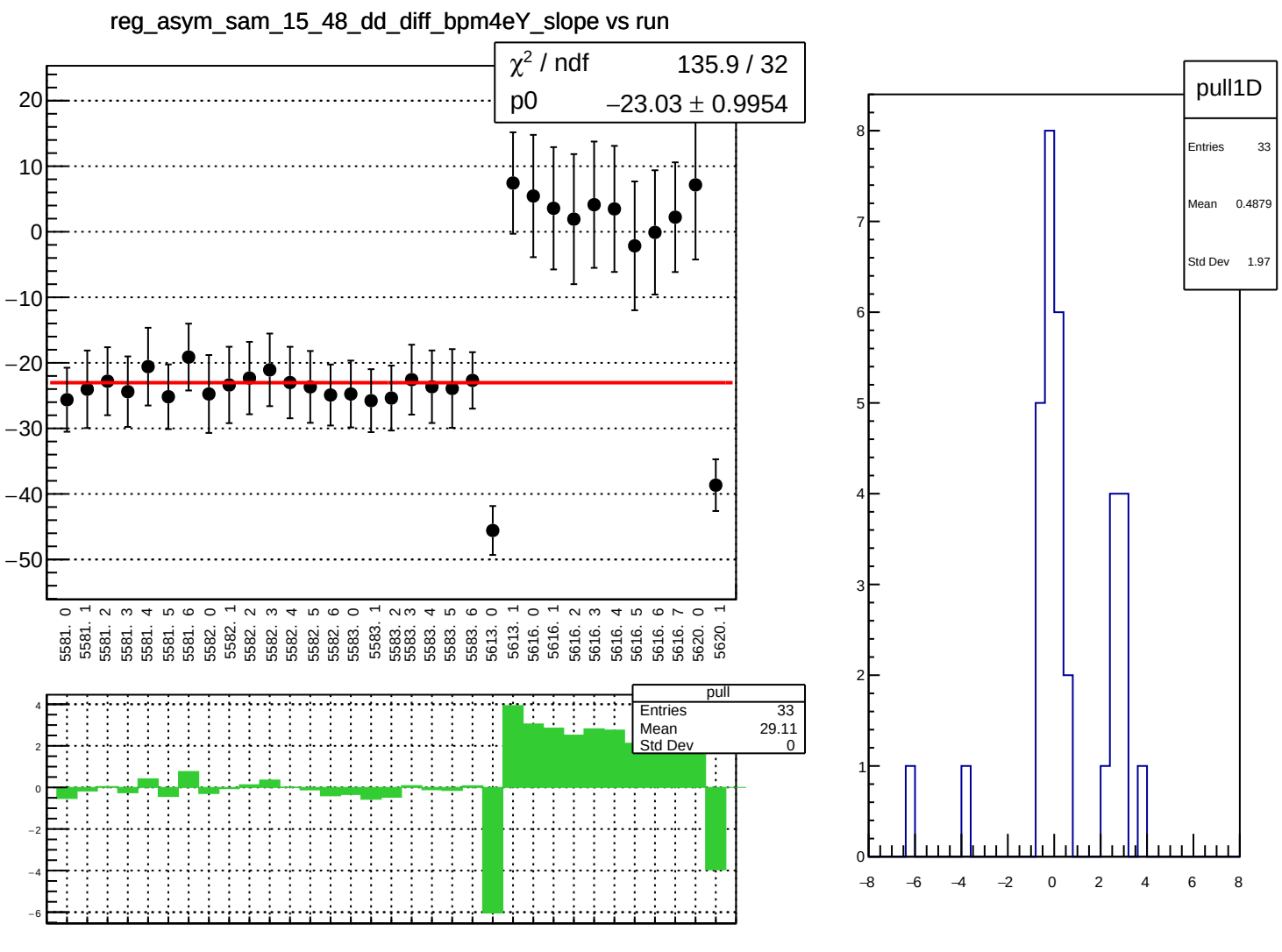

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.66 / 32
p0 −29.15 ± 3.741
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.43
Std Dev 8.987
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.2467
Std Dev 0.9154
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

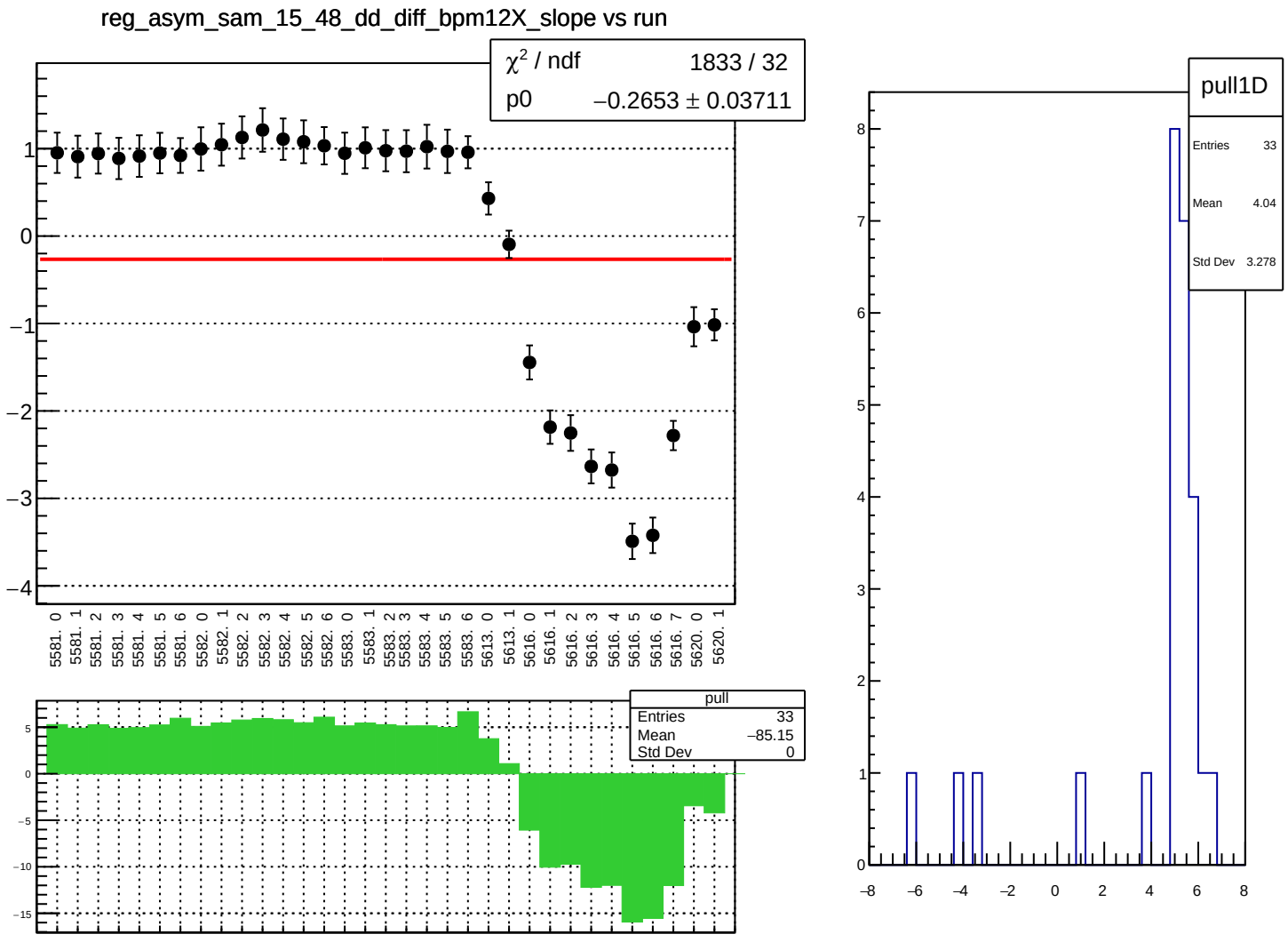

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 1010 / 32
p0 −2.028 ± 0.144
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 58.47
Std Dev 0
5
0
−5
−10
−15
pull1D
Entries 33
Mean 1.446
Std Dev 2.221
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

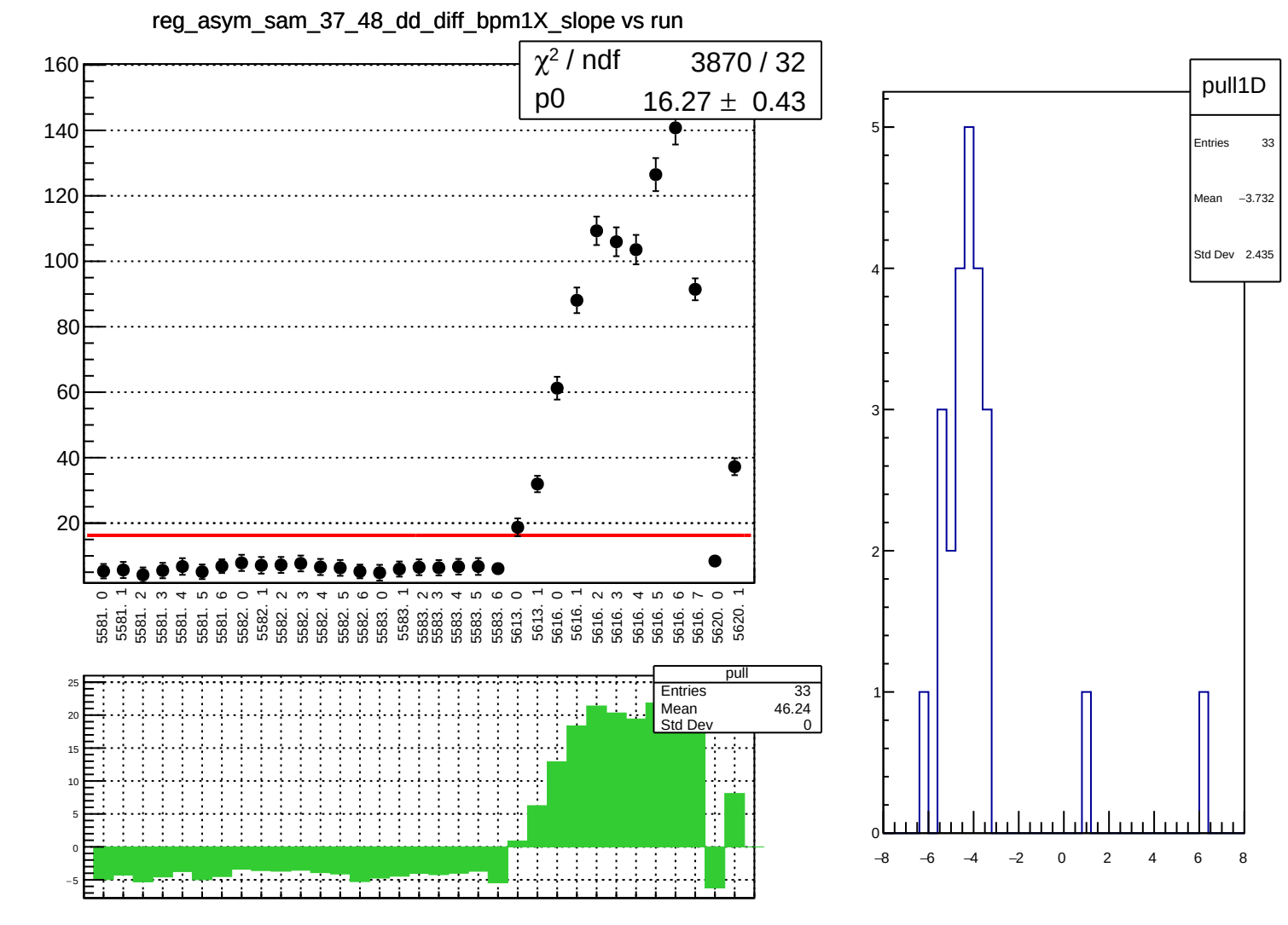

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1253 / 32
p0 −5.86 ± 0.9565
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 92.5
Std Dev 0
5
0
−5
−10
−15
pull1D
Entries 33
Mean 2.529
Std Dev 1.664
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

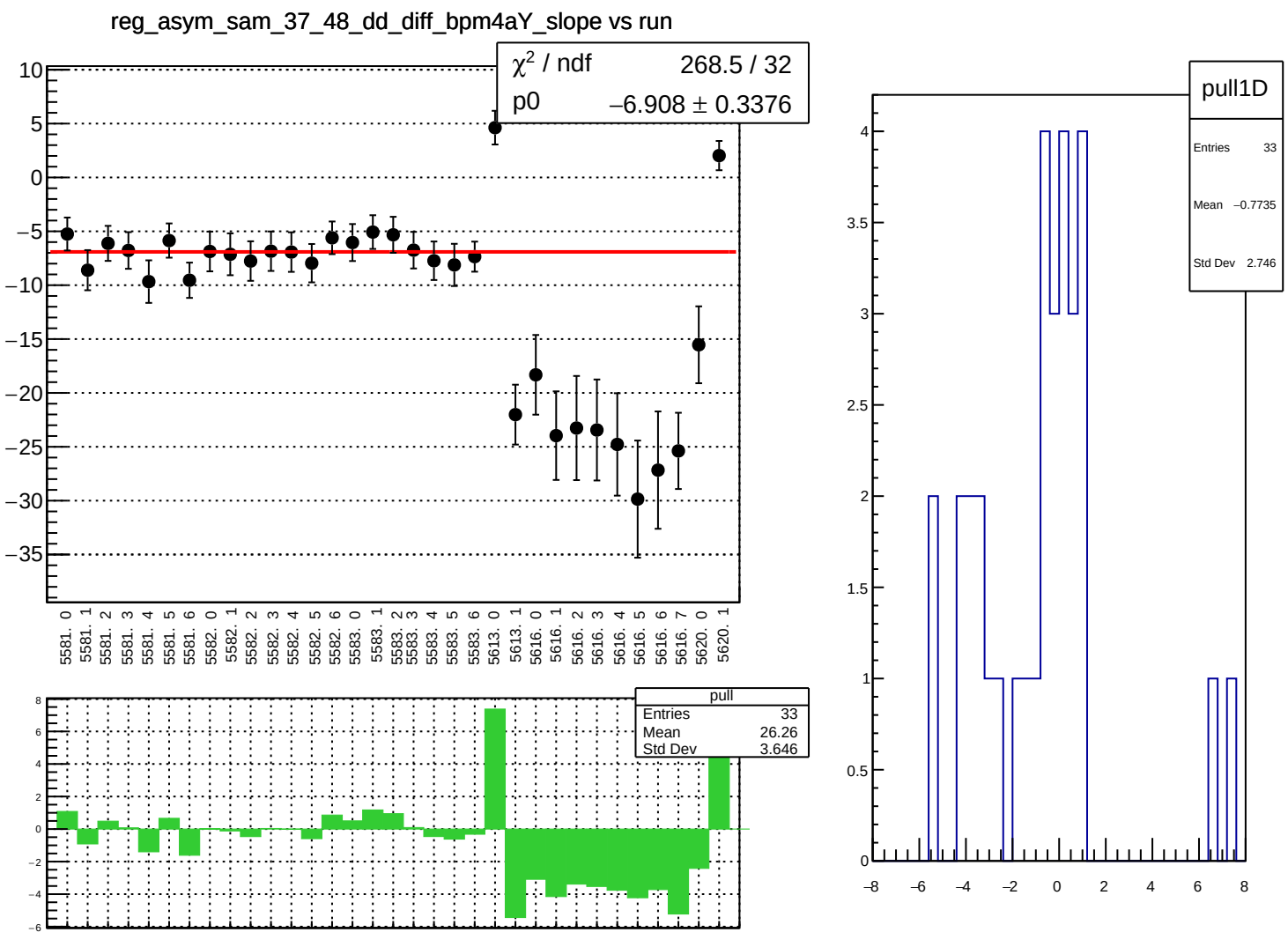

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 118.9 / 32
p0 −11.61 ± 0.7575
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.7
Std Dev 6.094
6
4
2
0
−2
−4
pull1D
Entries 33
Mean −0.4321
Std Dev 1.848
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

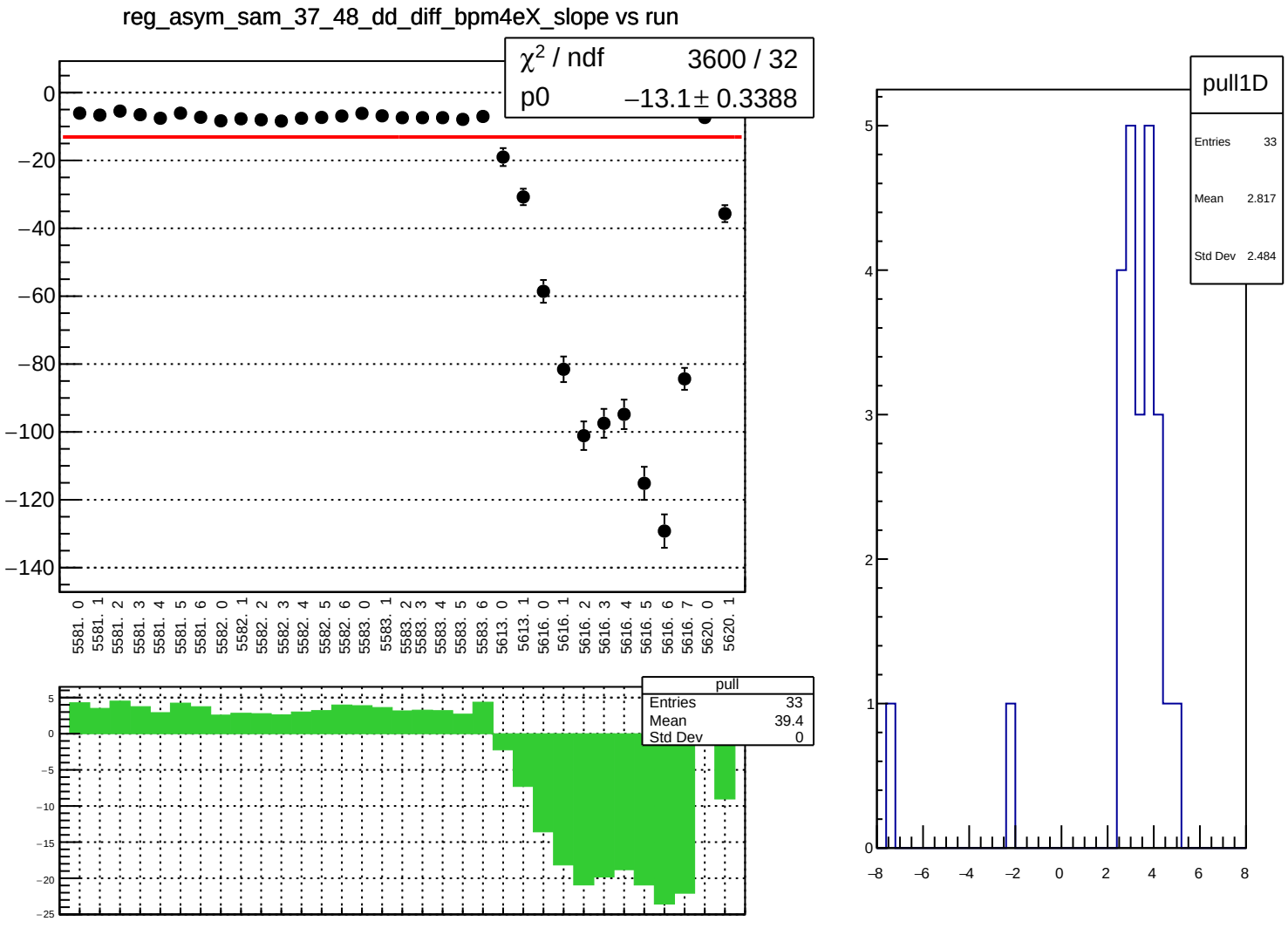

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1096 / 32
p0 29.68 ± 0.7679
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 55.84
Std Dev 0
16
14
12
10
8
6
4
2
0
−2
−4
pull1D
Entries 33
Mean −1.917
Std Dev 1.493
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

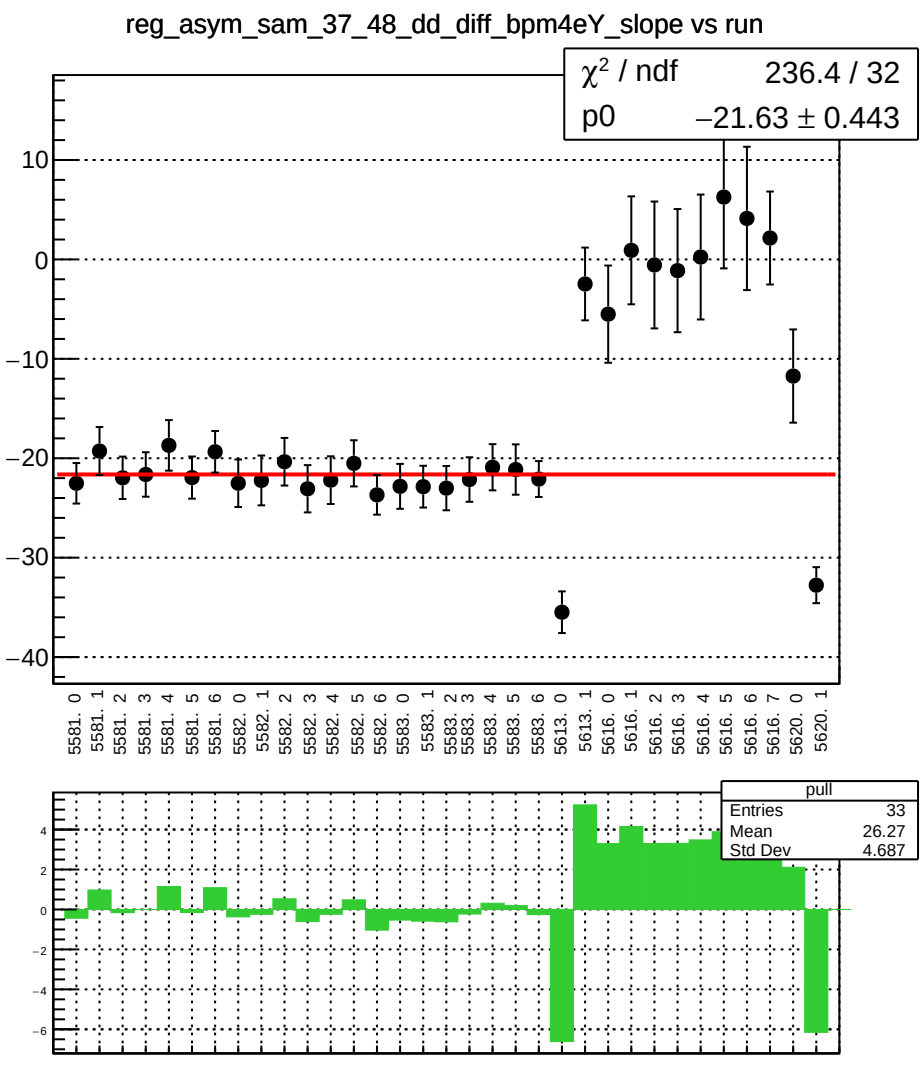

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 135.9 / 32
p0 −23.03 ± 0.9954
20
10
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 29.11
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 33
Mean 0.4879
Std Dev 1.97
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

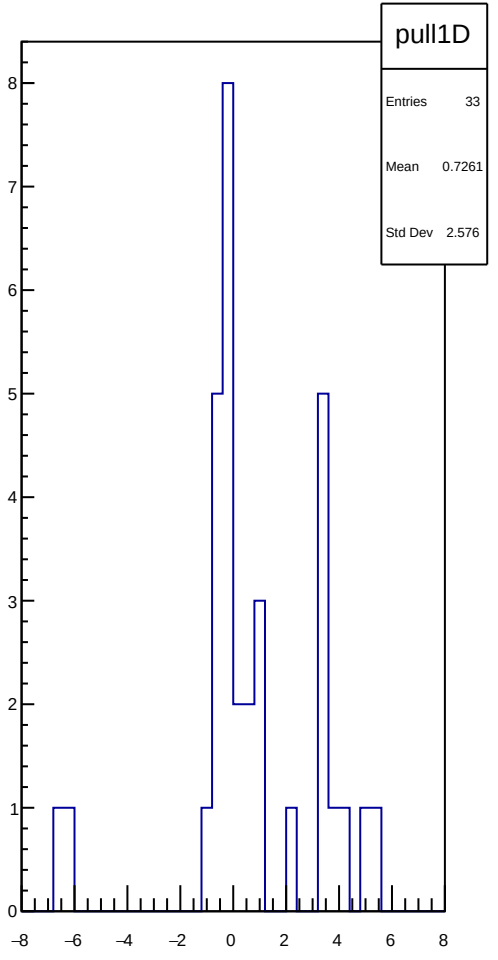

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1833 / 32
p0 −0.2653 ± 0.03711
pull
Entries 33
Mean −85.15
Std Dev 0
pull1D
Entries 33
Mean 4.04
Std Dev 3.278

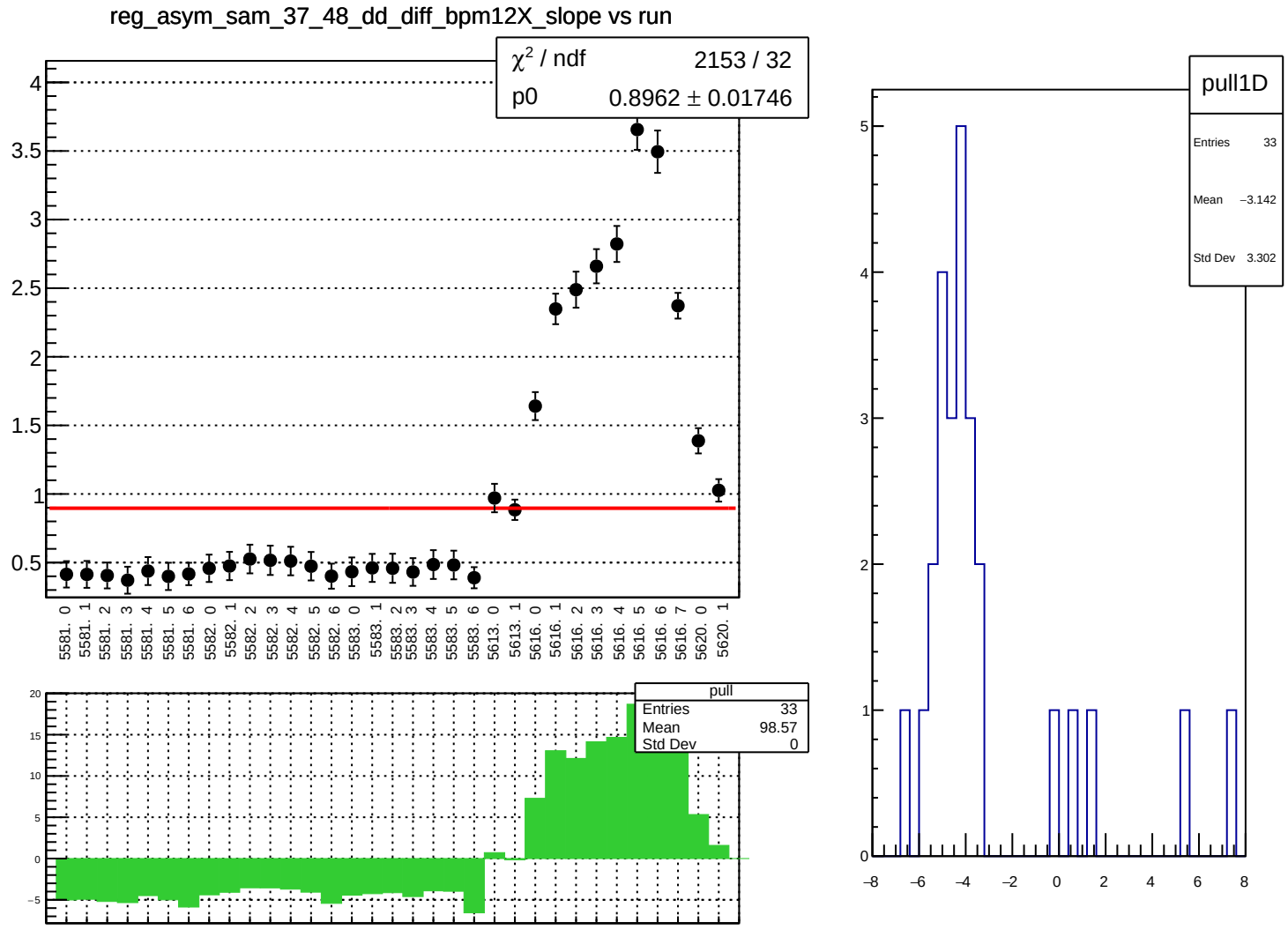

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3870 / 32
p0 16.27 ± 0.43
160
140
120
100
80
60
40
20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 46.24
Std Dev 0
25
20
15
10
5
0
−5
pull1D
Entries 33
Mean −3.732
Std Dev 2.435
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

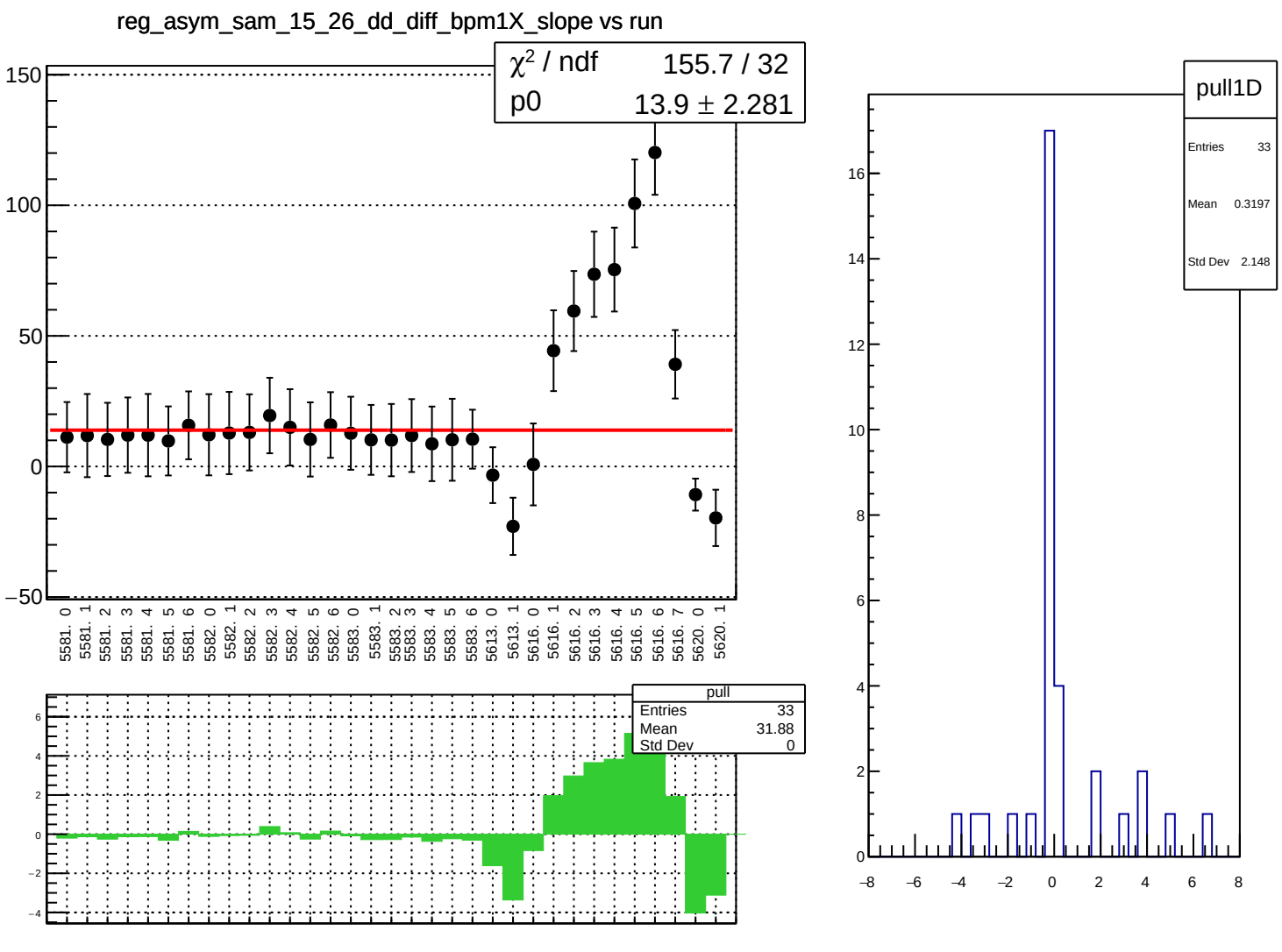

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 268.5 / 32
p0 −6.908 ± 0.3376
10
5
0
−5
−10
−15
−20
−25
−30
−35
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.26
Std Dev 3.646
8
6
4
2
0
−2
−4
−6
pull1D
Entries 33
Mean −0.7735
Std Dev 2.746
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

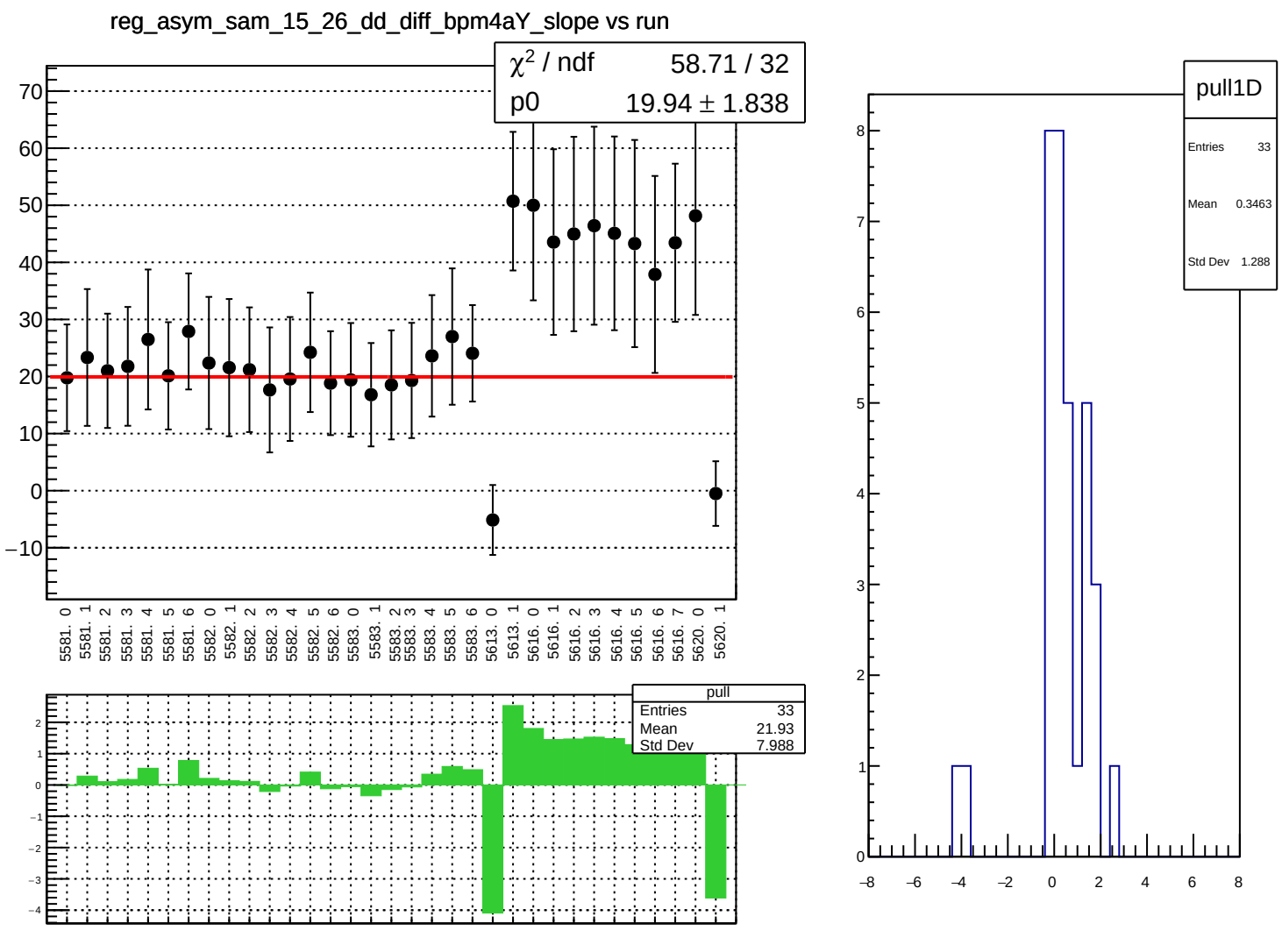

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3600 / 32
p0 −13.1 ± 0.3388
0
−20
−40
−60
−80
−100
−120
−140
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.4
Std Dev 0
5
0
−5
−10
−15
−20
−25
pull1D
Entries 33
Mean 2.817
Std Dev 2.484
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

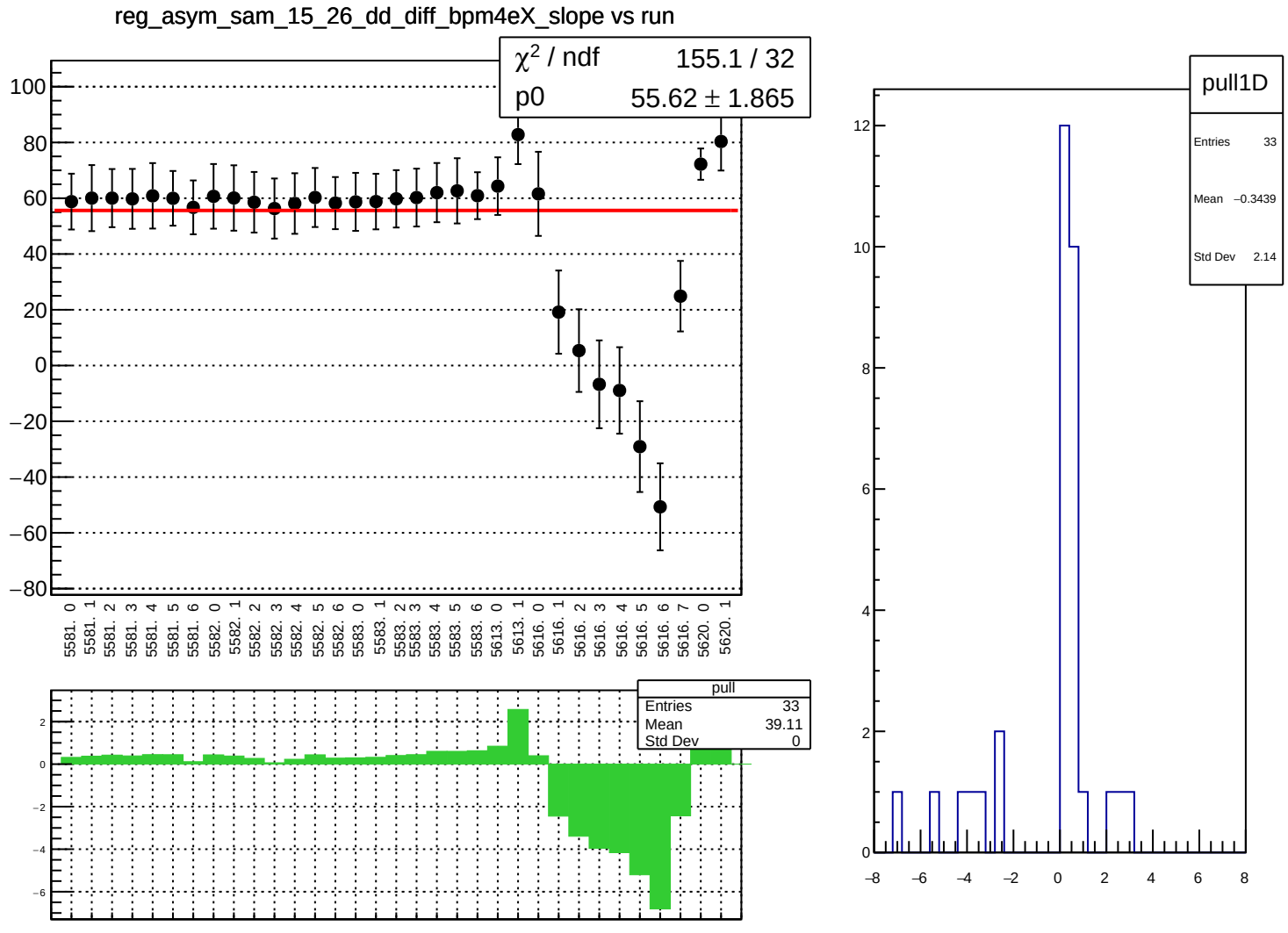

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 236.4 / 32
p0 −21.63 ± 0.443
10
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.27
Std Dev 4.687
4
2
0
−2
−4
−6

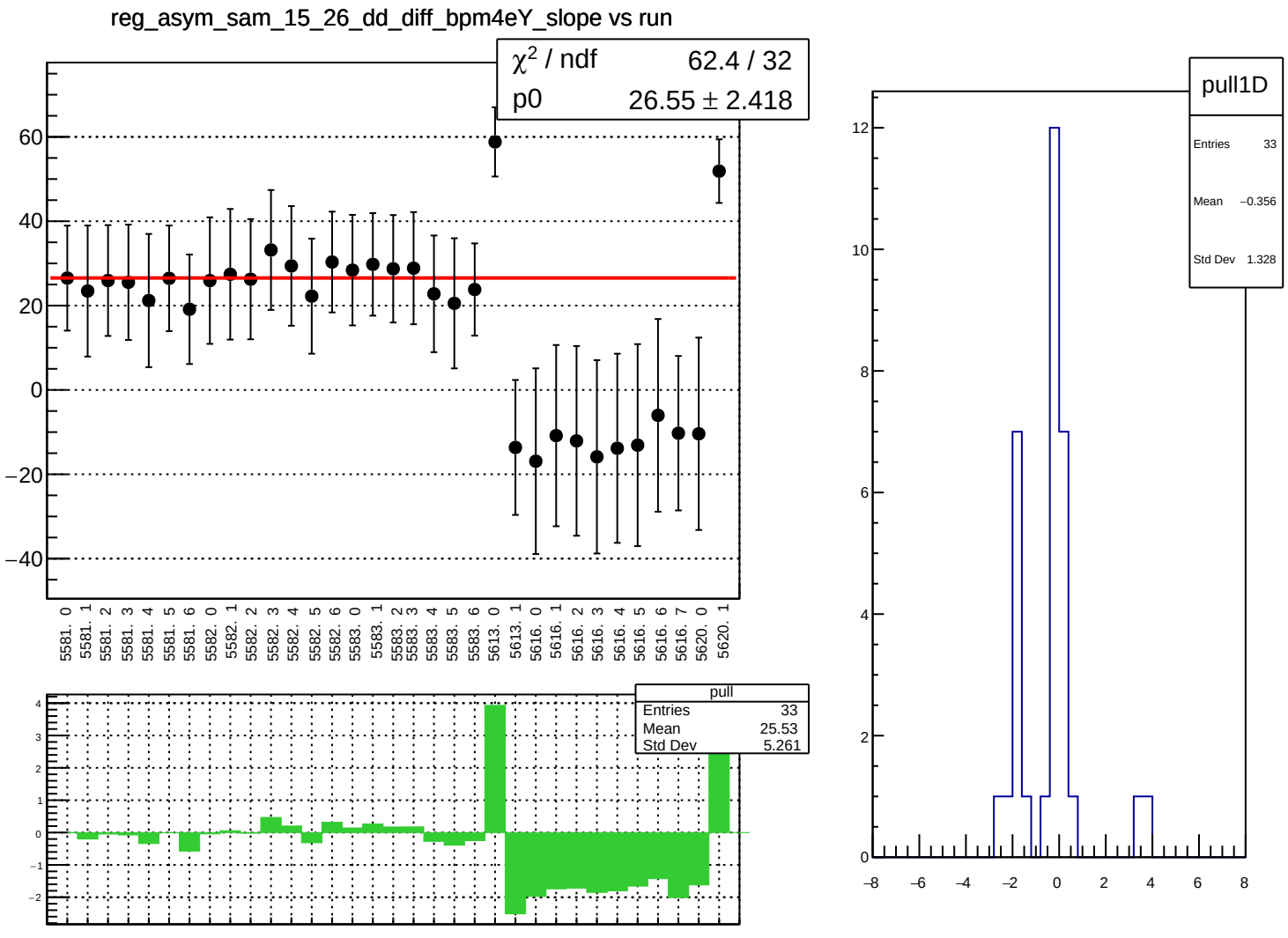

pull1D
Entries 33
Mean 0.7261
Std Dev 2.576
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

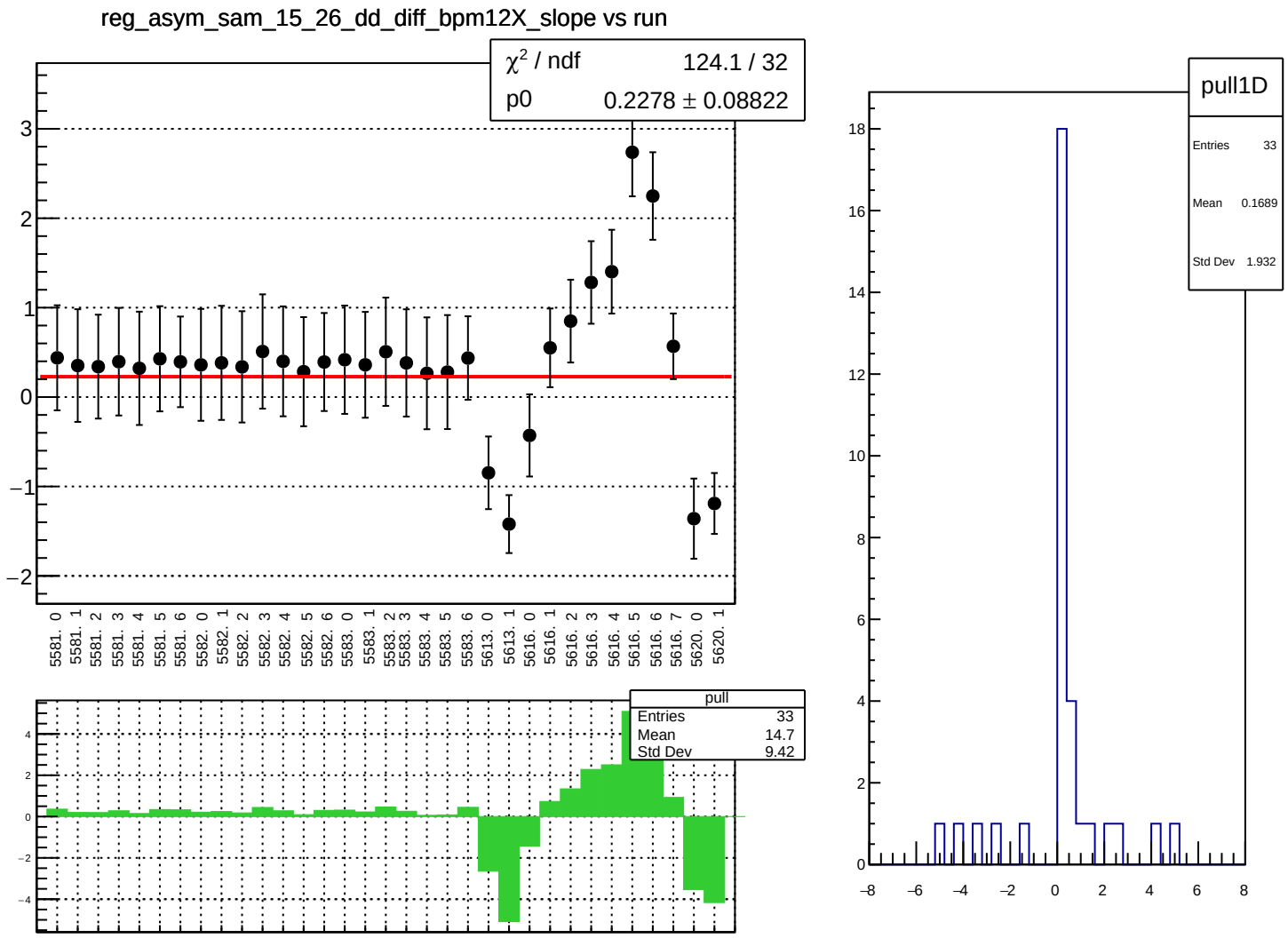

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2153 / 32
p0 0.8962 ± 0.01746
pull
Entries 33
Mean 98.57
Std Dev 0
pull1D
Entries 33
Mean −3.142
Std Dev 3.302

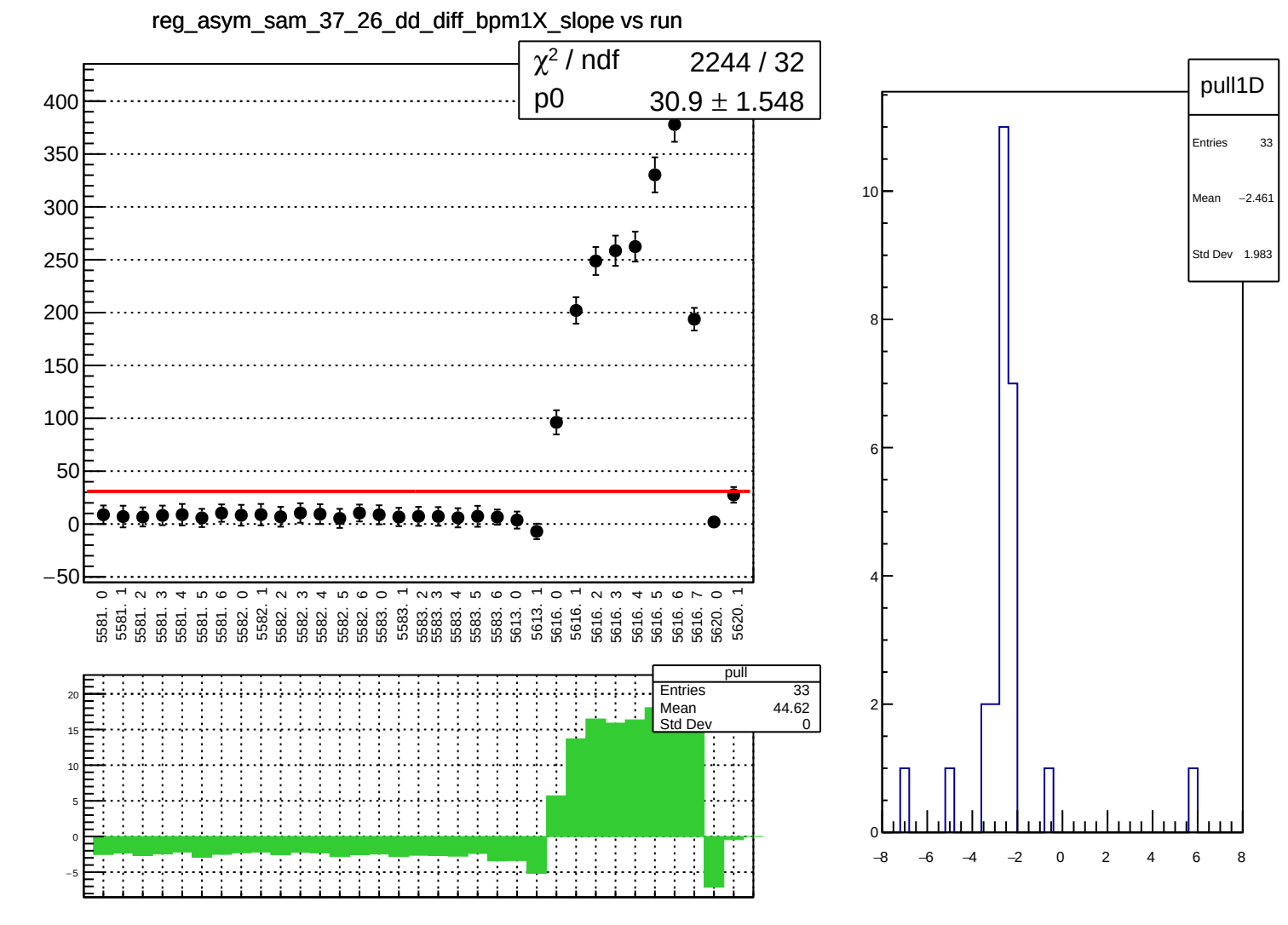

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 155.7 / 32
p0 13.9 ± 2.281
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.88
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 33
Mean 0.3197
Std Dev 2.148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

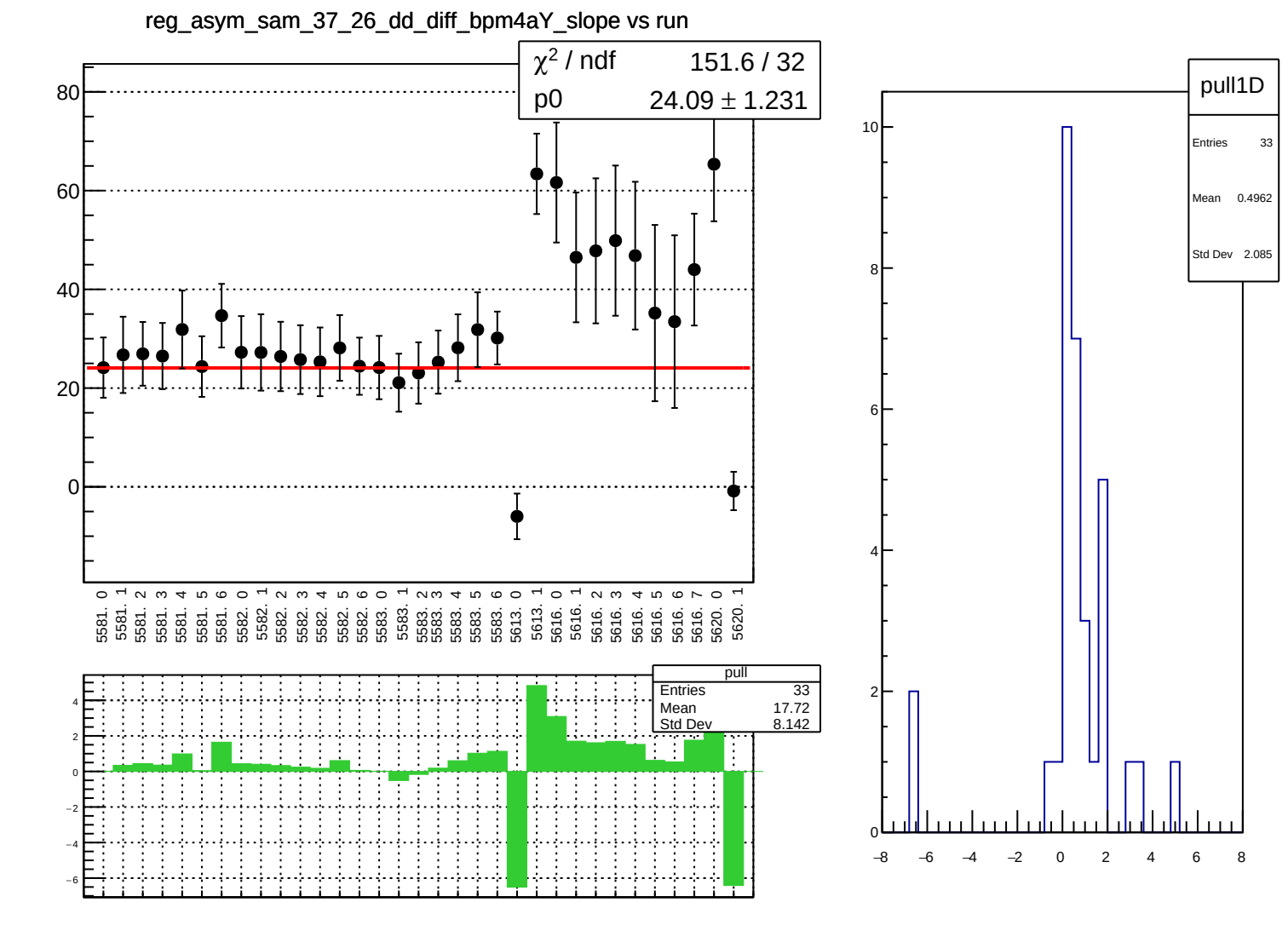

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.71 / 32
p0 19.94 ± 1.838
70
60
50
40
30
20
10
0
−10
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.93
Std Dev 7.988
2
1
0
−1
−2
−3
−4
pull1D
Entries 33
Mean 0.3463
Std Dev 1.288
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

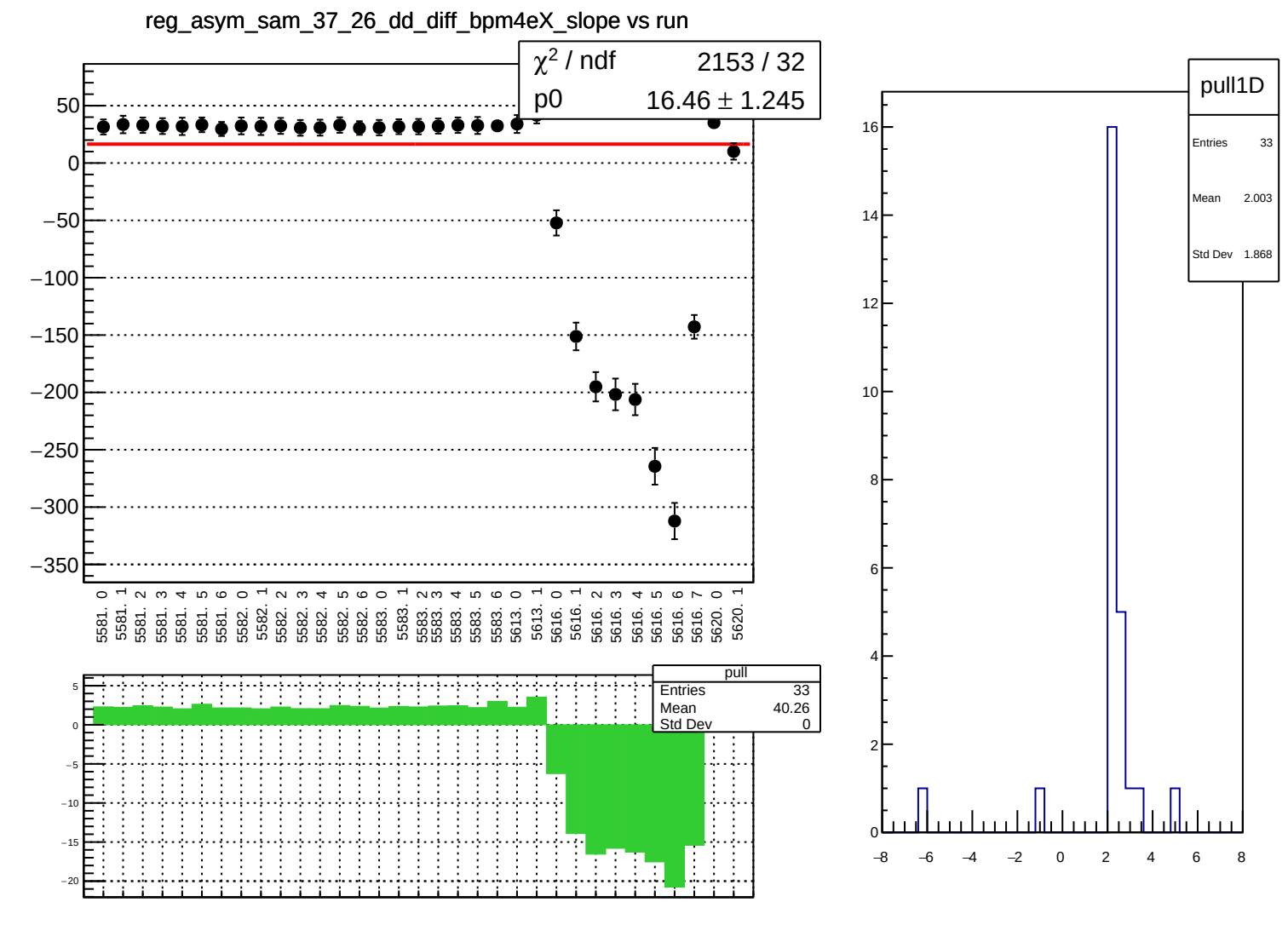

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 155.1 / 32
p0 55.62 ± 1.865
100
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.11
Std Dev 0
2
0
−2
−4
−6
pull1D
Entries 33
Mean −0.3439
Std Dev 2.14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

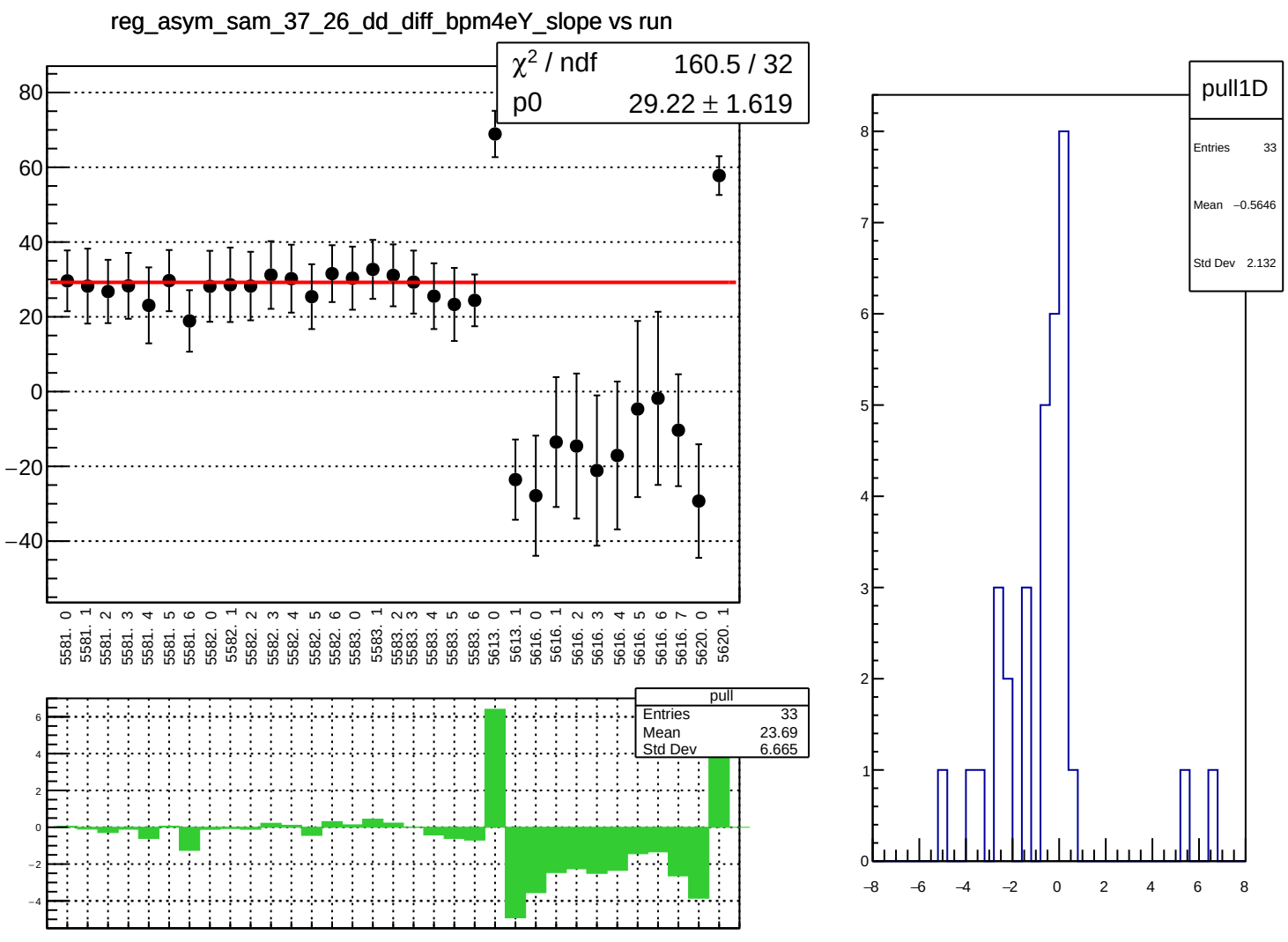

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.4 / 32
p0 26.55 ± 2.418
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 25.53
Std Dev 5.261
4
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.356
Std Dev 1.328
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

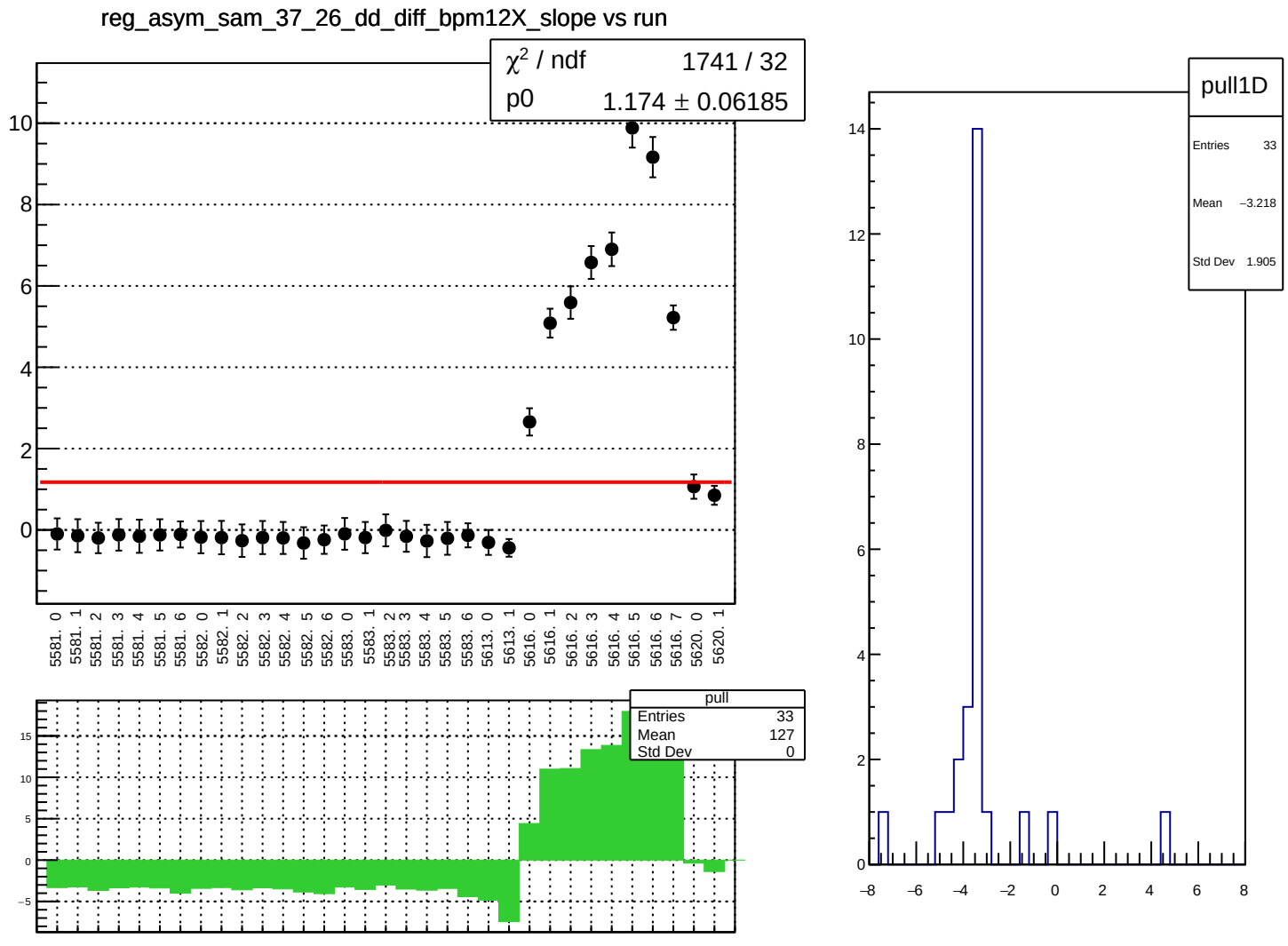

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 124.1 / 32
p0 0.2278 ± 0.08822
pull
Entries 33
Mean 14.7
Std Dev 9.42
pull1D
Entries 33
Mean 0.1689
Std Dev 1.932

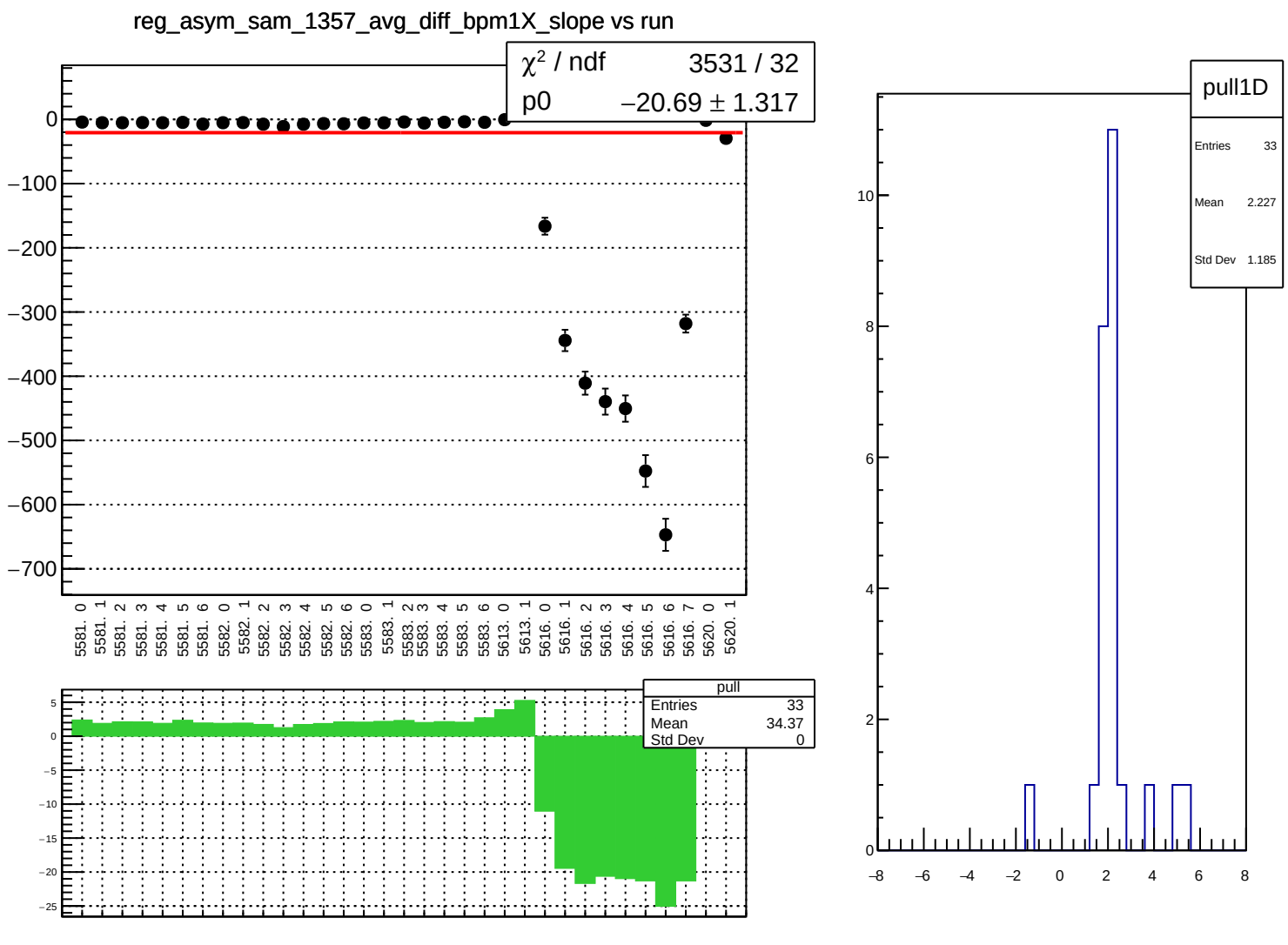

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 2244 / 32
p0 30.9 ± 1.548
pull
Entries 33
Mean 44.62
Std Dev 0
pull1D
Entries 33
Mean −2.461
Std Dev 1.983

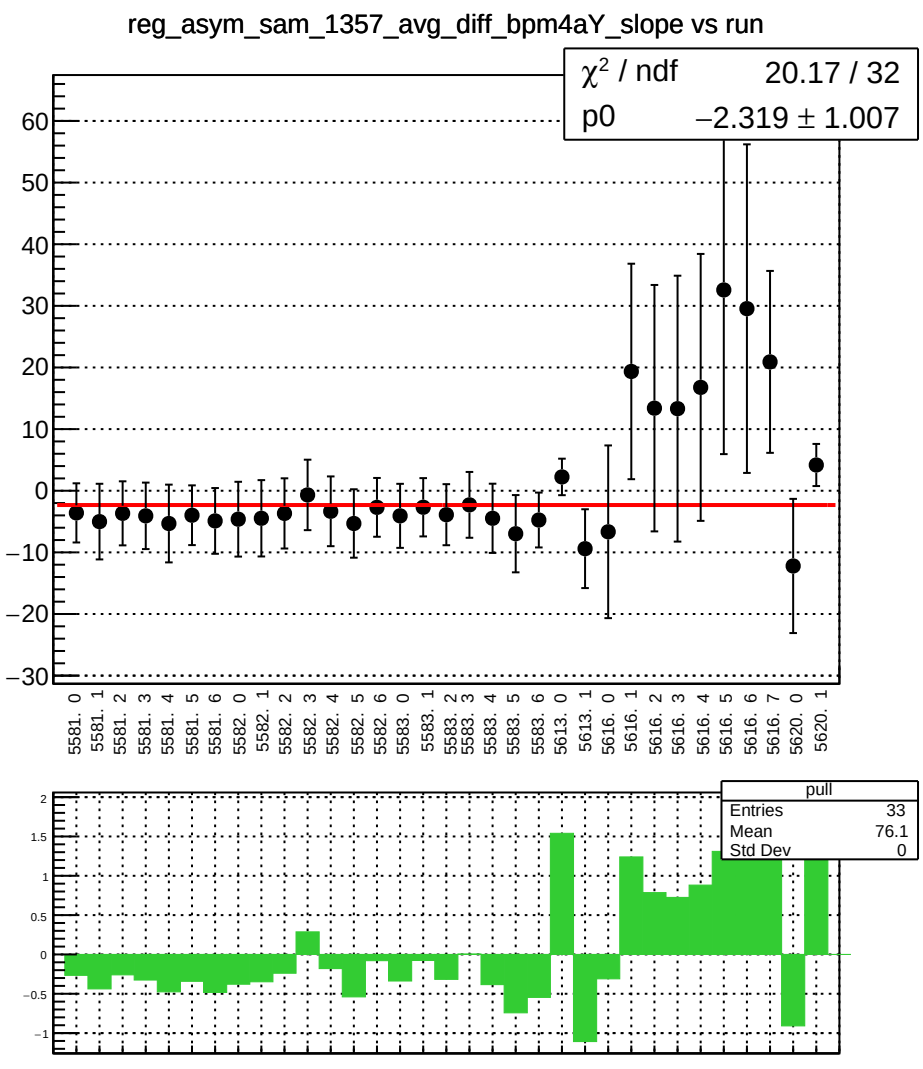

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 151.6 / 32
p0 24.09 ± 1.231
80
60
40
20
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.72
Std Dev 8.142
4
2
0
−2
−4
−6
pull1D
Entries 33
Mean 0.4962
Std Dev 2.085
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

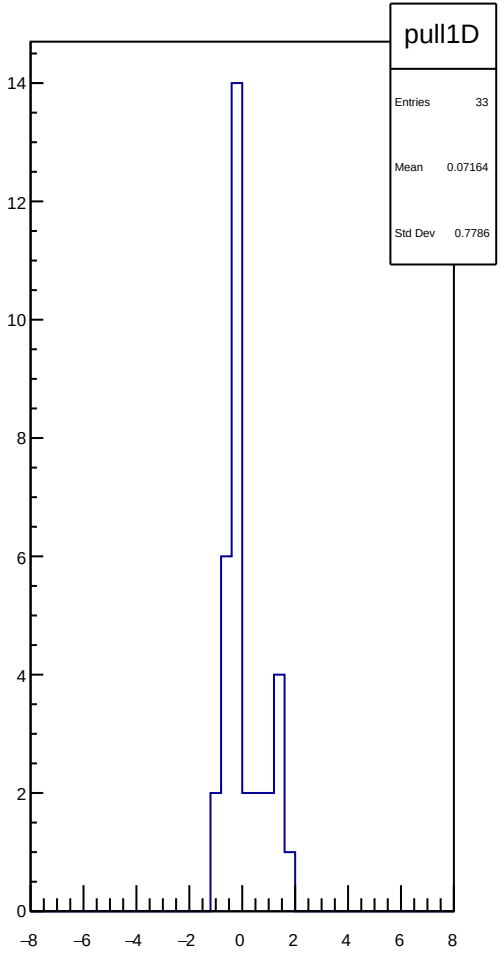

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 2153 / 32
p0 16.46 ± 1.245
pull
Entries 33
Mean 40.26
Std Dev 0
pull1D
Entries 33
Mean 2.003
Std Dev 1.868

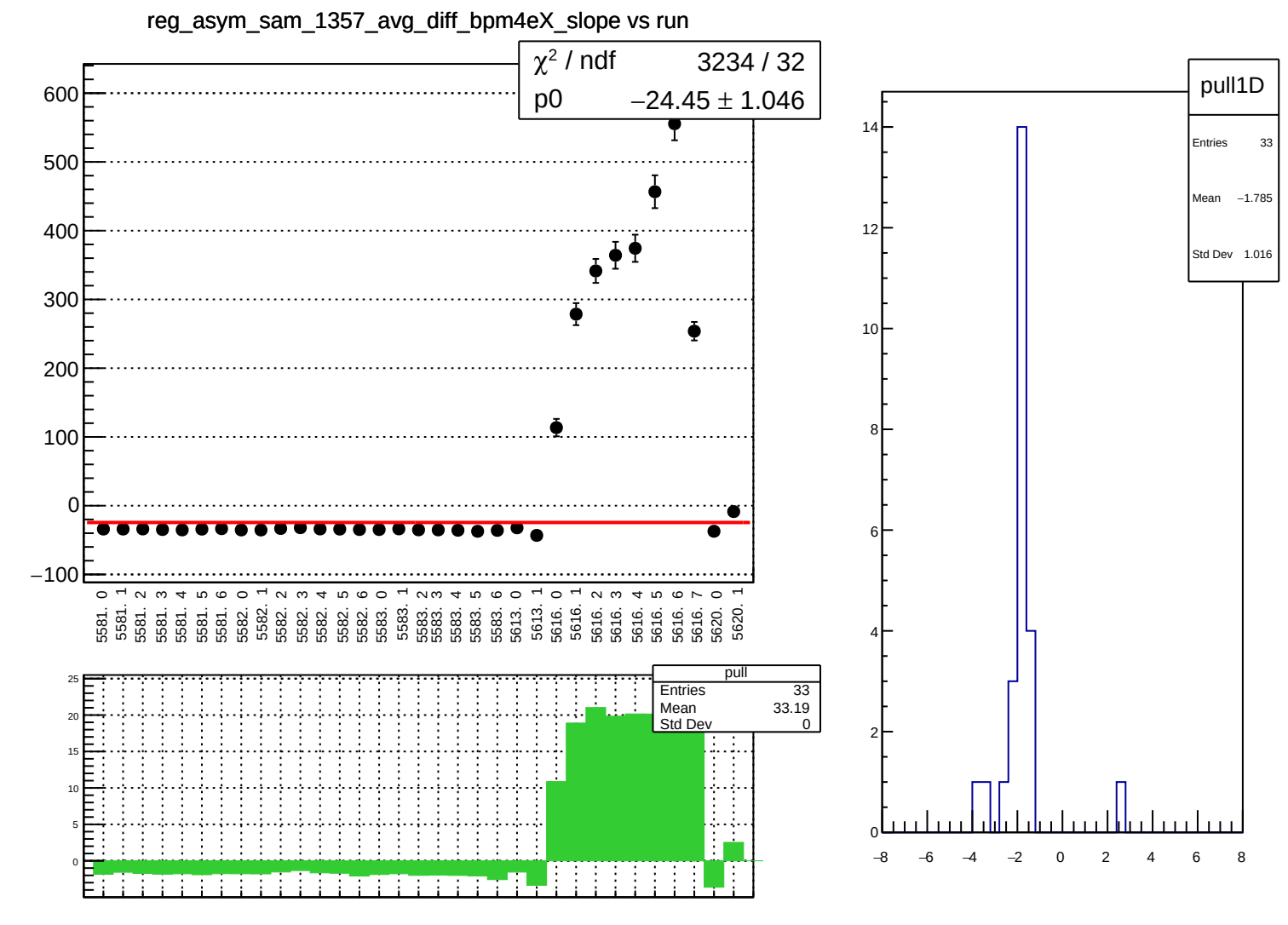

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 160.5 / 32
p0 29.22 ± 1.619
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.69
Std Dev 6.665
6
4
2
0
−2
−4
pull1D
Entries 33
Mean −0.5646
Std Dev 2.132
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

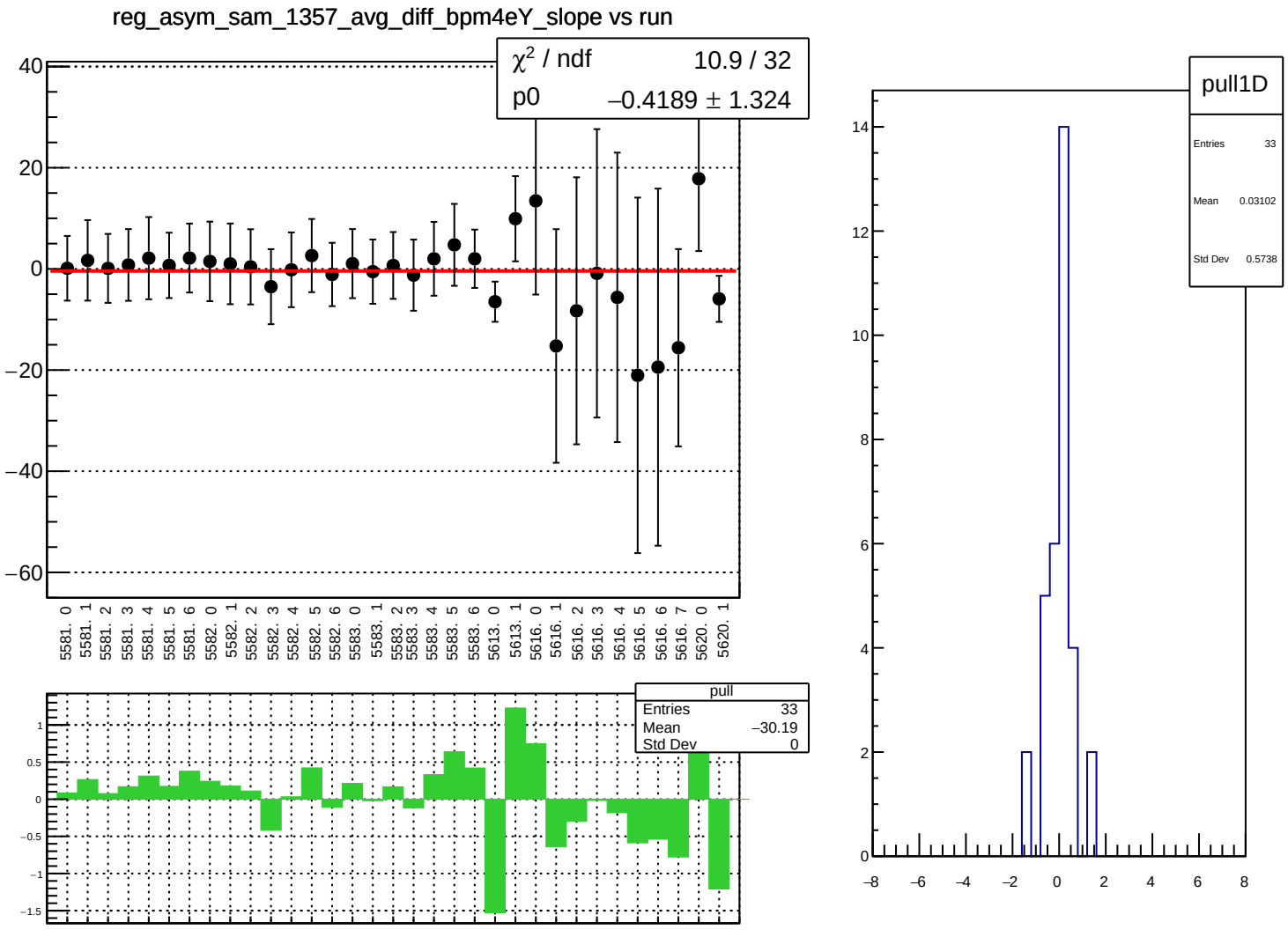

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1741 / 32
p0 1.174 ± 0.06185
10
8
6
4
2
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 127
Std Dev 0
15
10
5
0
−5
pull1D
Entries 33
Mean −3.218
Std Dev 1.905
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

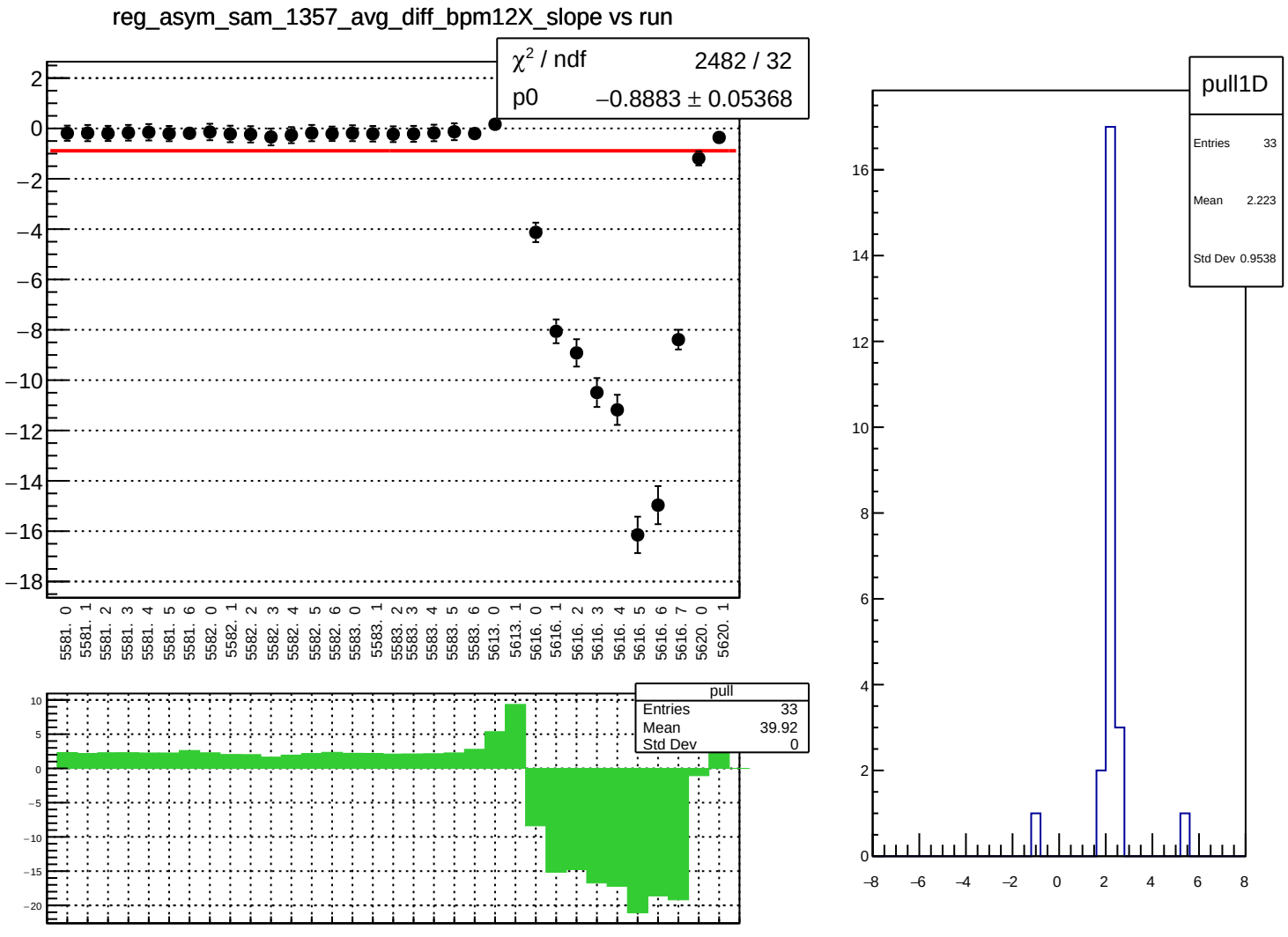

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 3531 / 32
p0 −20.69 ± 1.317
0
−100
−200
−300
−400
−500
−600
−700
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.37
Std Dev 0
5
0
−5
−10
−15
−20
−25
pull1D
Entries 33
Mean 2.227
Std Dev 1.185
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

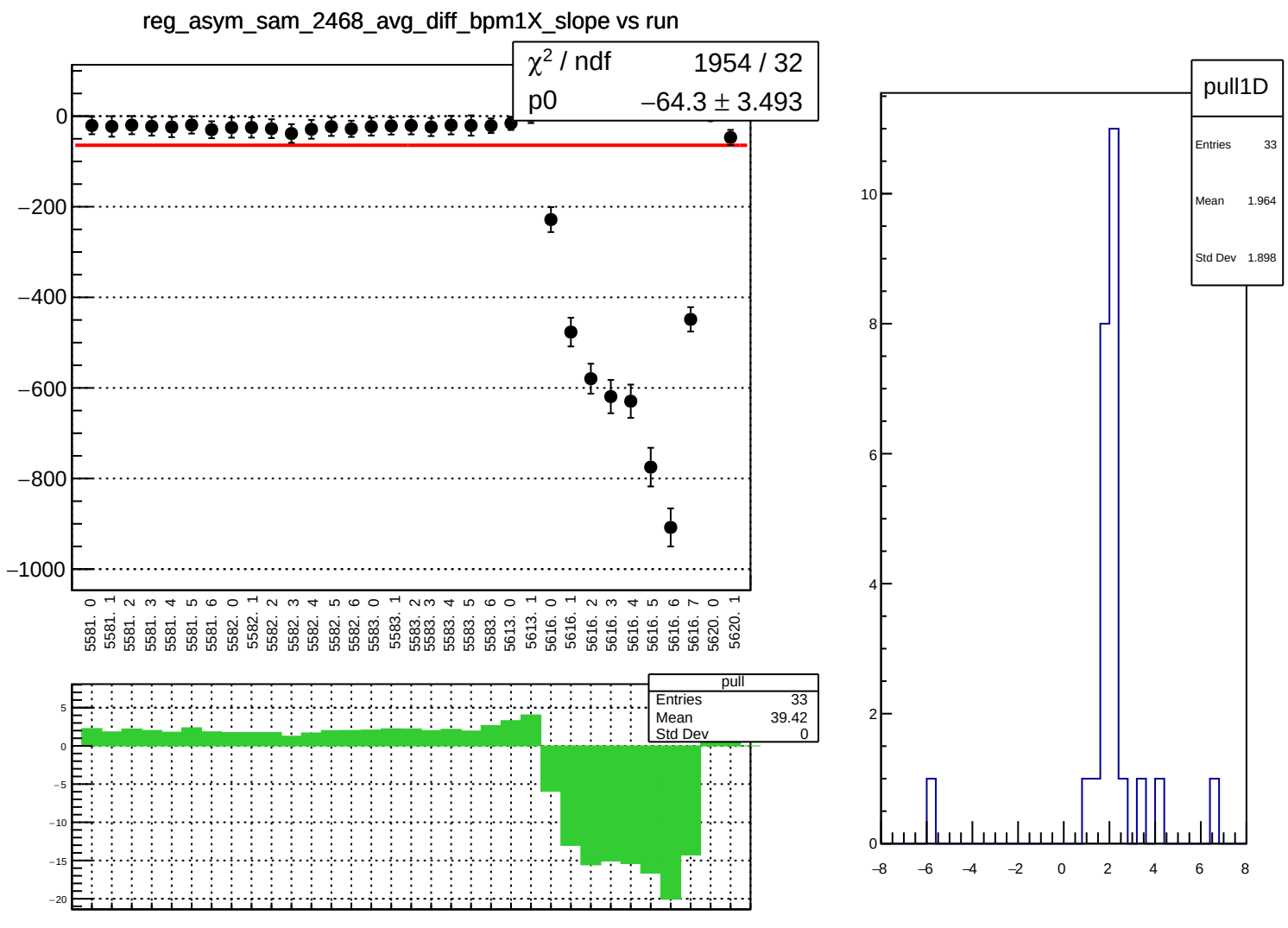

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.17 / 32
p0 −2.319 ± 1.007
pull
Entries 33
Mean 76.1
Std Dev 0

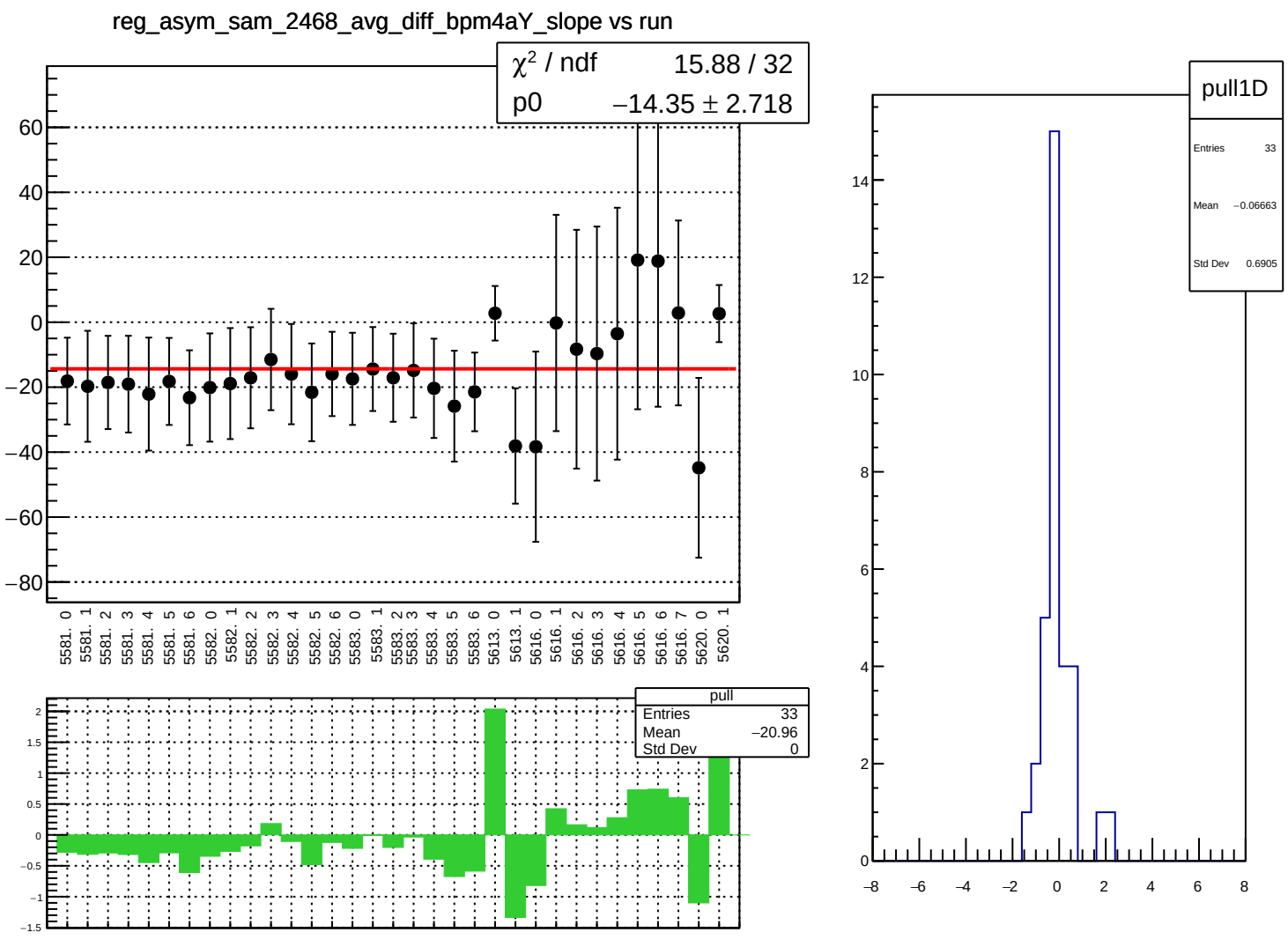

pull1D
Entries 33
Mean 0.07164
Std Dev 0.7786

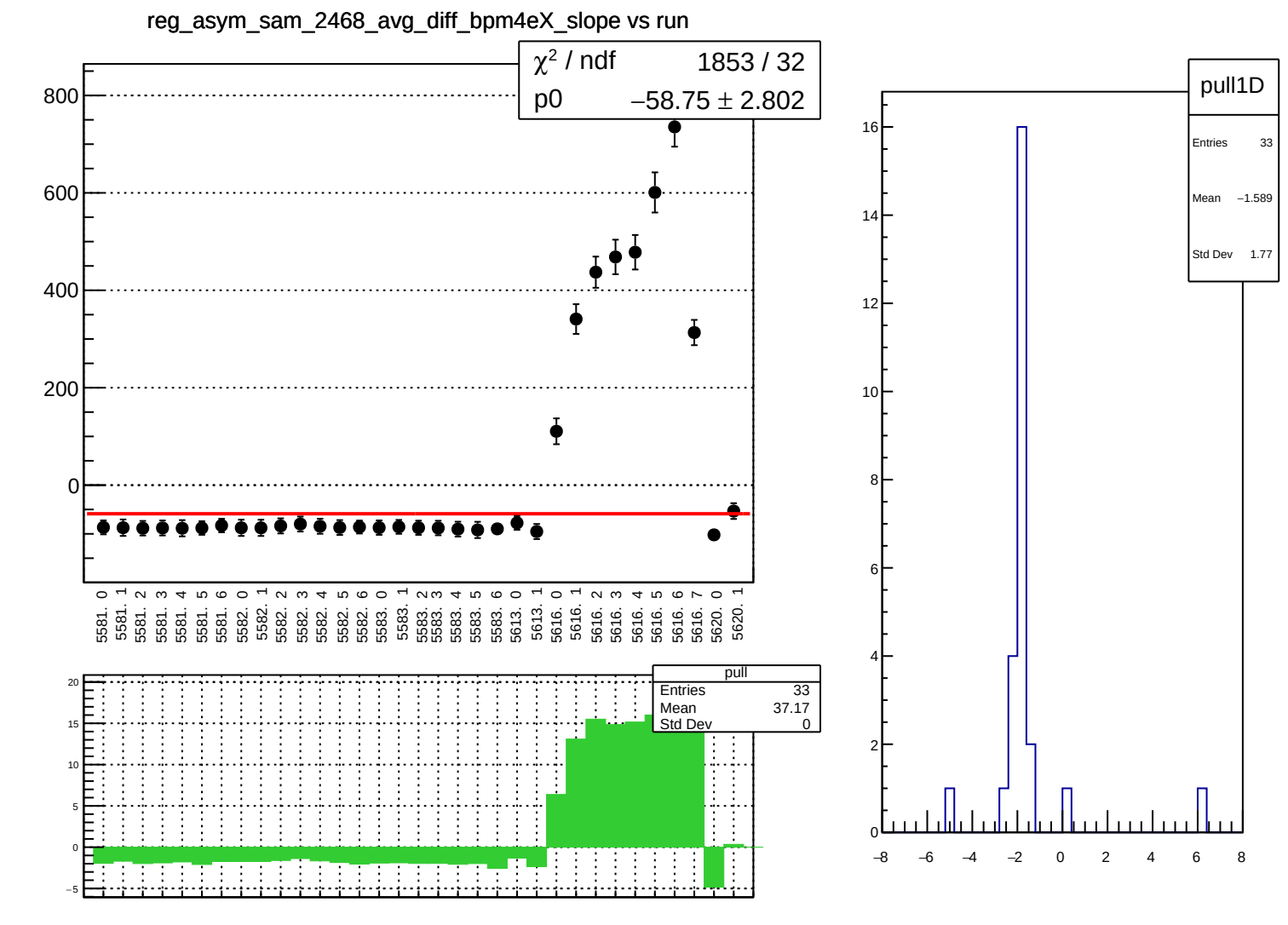

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 3234 / 32
p0 −24.45 ± 1.046
600
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 33.19
Std Dev 0
25
20
15
10
5
0
pull1D
Entries 33
Mean −1.785
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

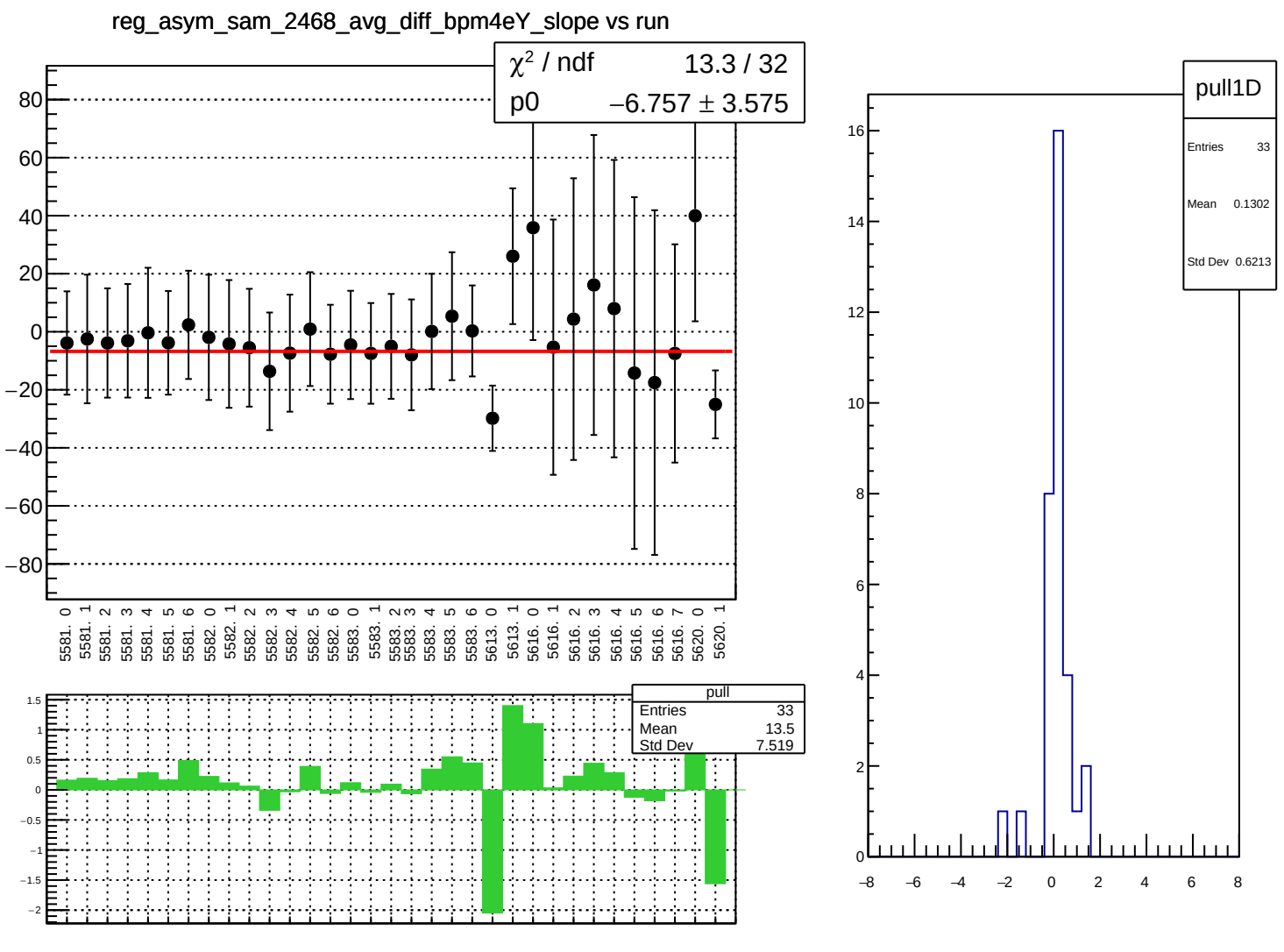

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.9 / 32
p0 −0.4189 ± 1.324
pull
Entries 33
Mean −30.19
Std Dev 0
pull1D
Entries 33
Mean 0.03102
Std Dev 0.5738

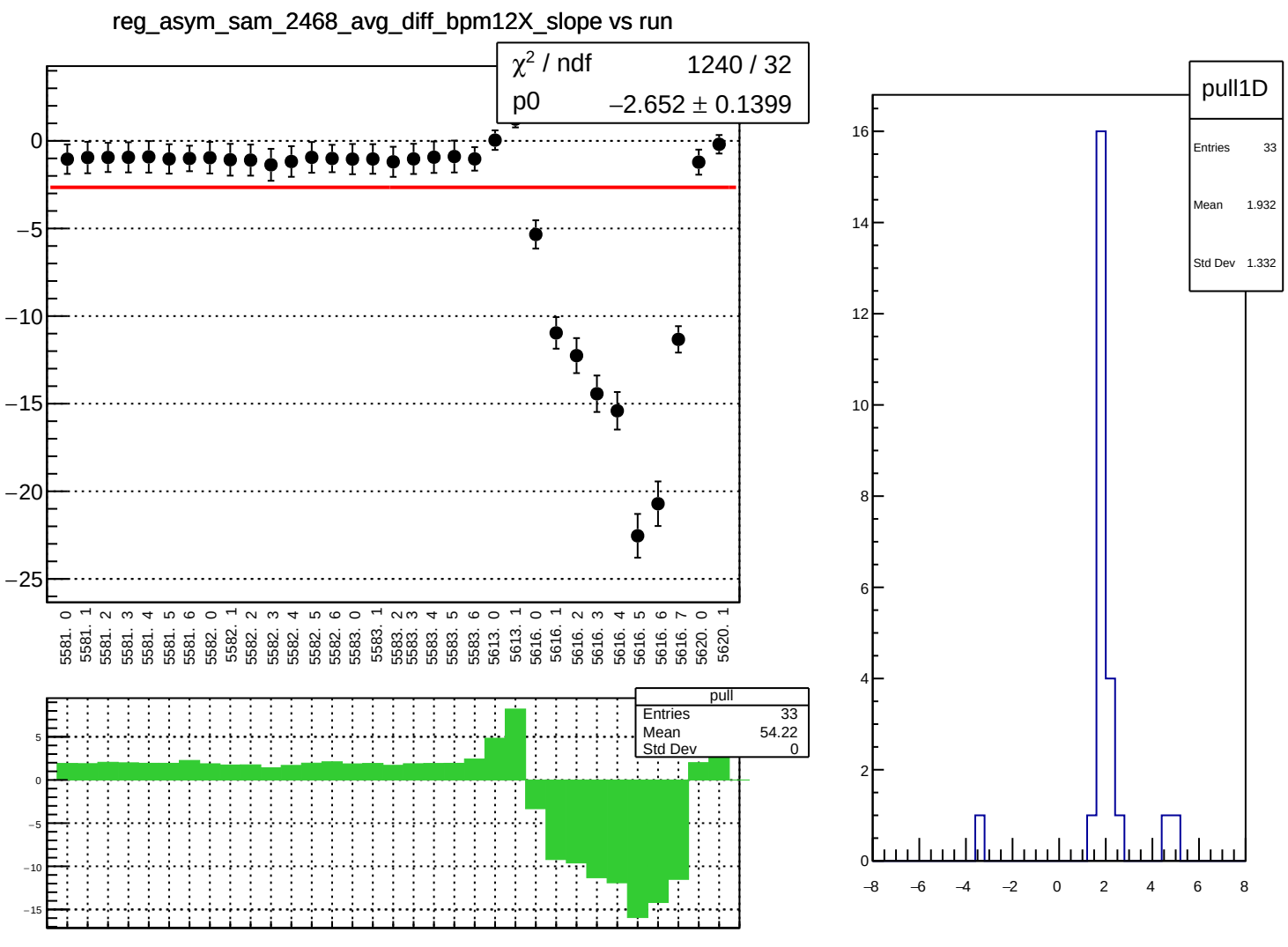

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 2482 / 32
p0 −0.8883 ± 0.05368
pull
Entries 33
Mean 39.92
Std Dev 0
pull1D
Entries 33
Mean 2.223
Std Dev 0.9538

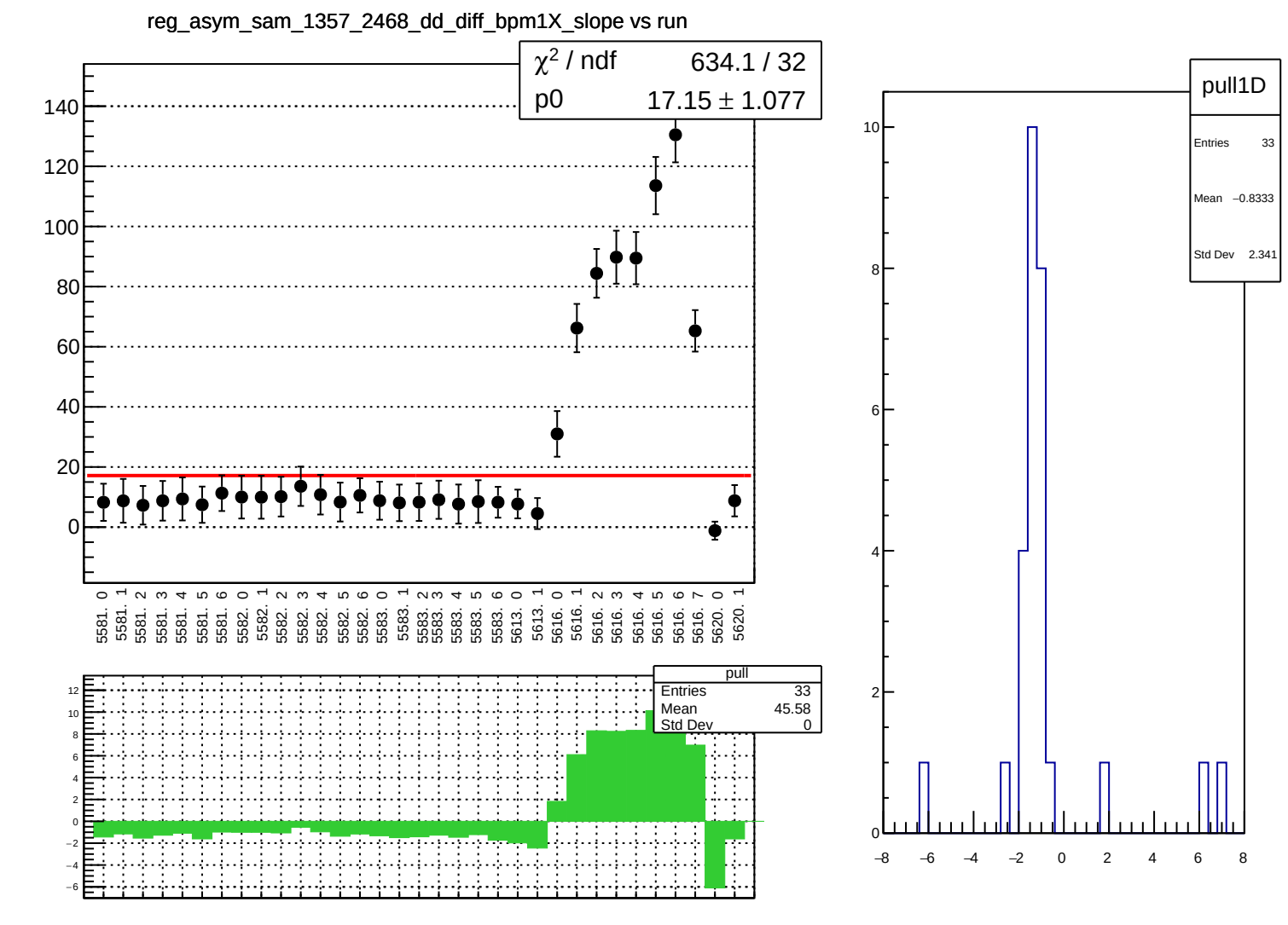

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 1954 / 32
p0 −64.3 ± 3.493
0
−200
−400
−600
−800
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.42
Std Dev 0
5
0
−5
−10
−15
−20
pull1D
Entries 33
Mean 1.964
Std Dev 1.898
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

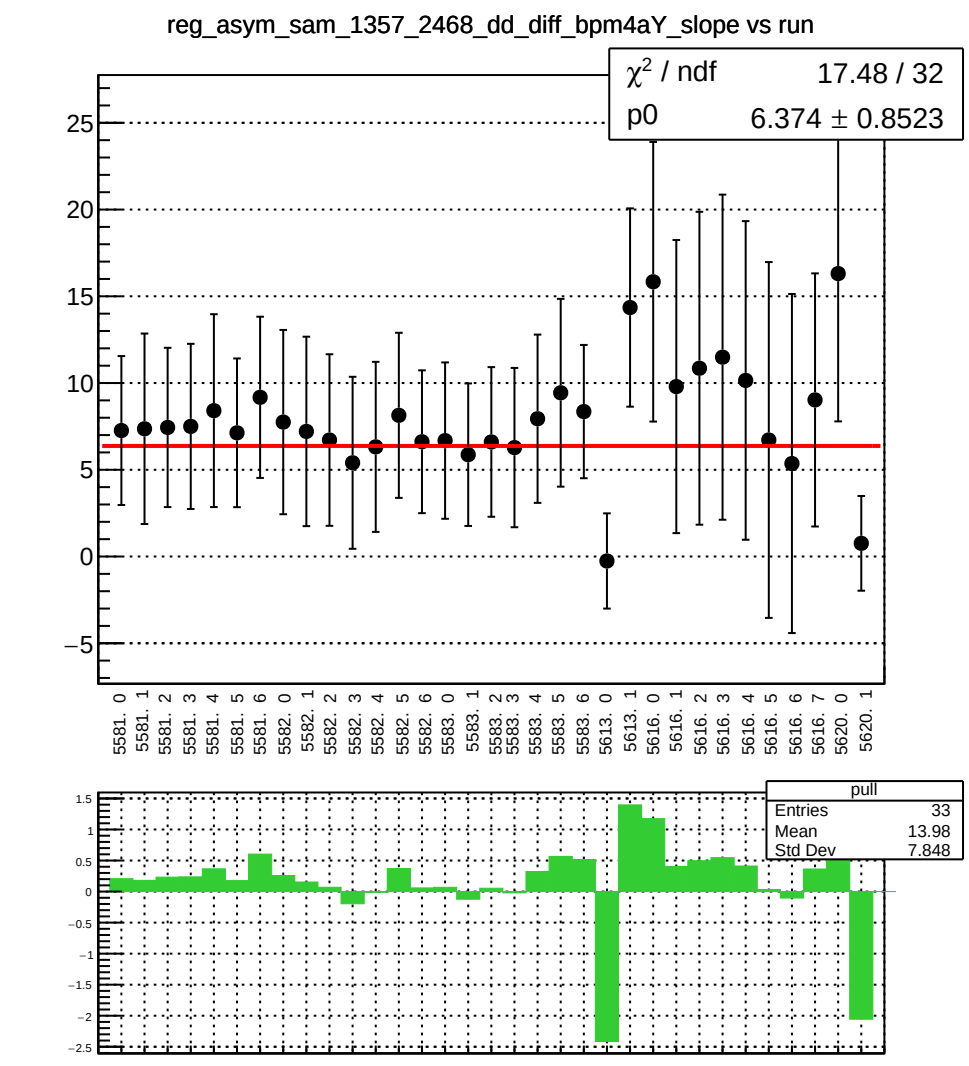

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.88 / 32
p0 −14.35 ± 2.718
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −20.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.06663
Std Dev 0.6905
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

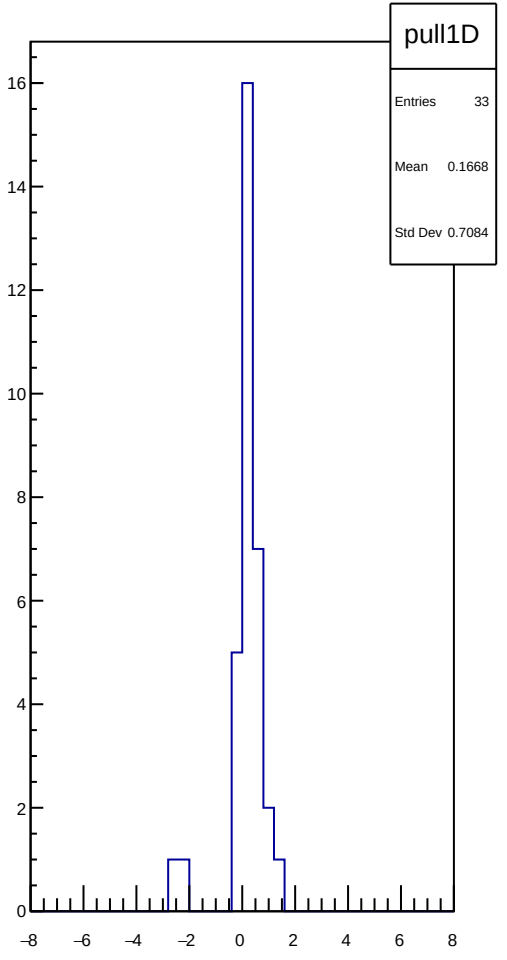

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1853 / 32
p0 −58.75 ± 2.802
800
600
400
200
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.17
Std Dev 0
20
15
10
5
0
−5
pull1D
Entries 33
Mean −1.589
Std Dev 1.77
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

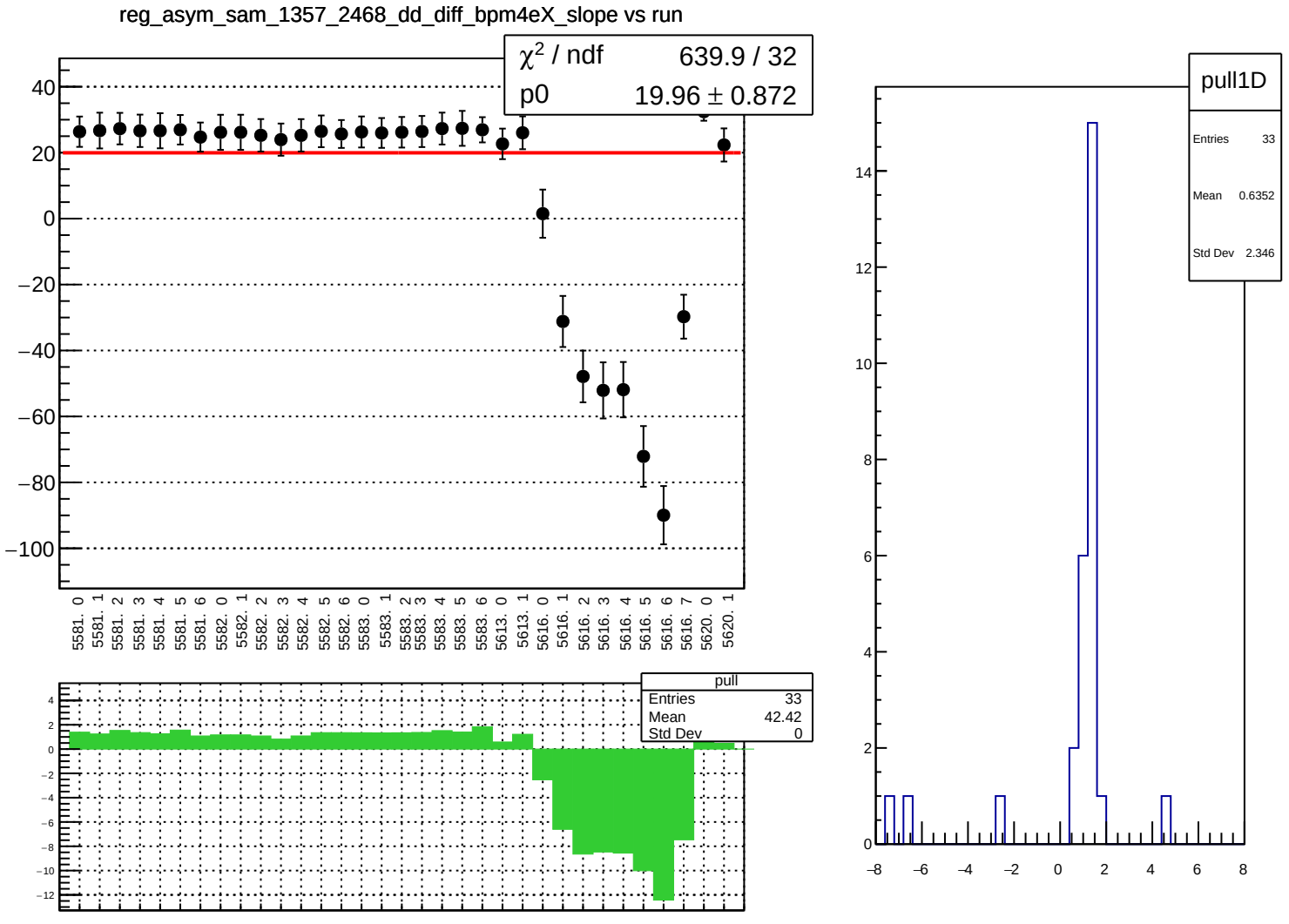

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.3 / 32
p0 −6.757 ± 3.575
80
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 13.5
Std Dev 7.519
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.1302
Std Dev 0.6213
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

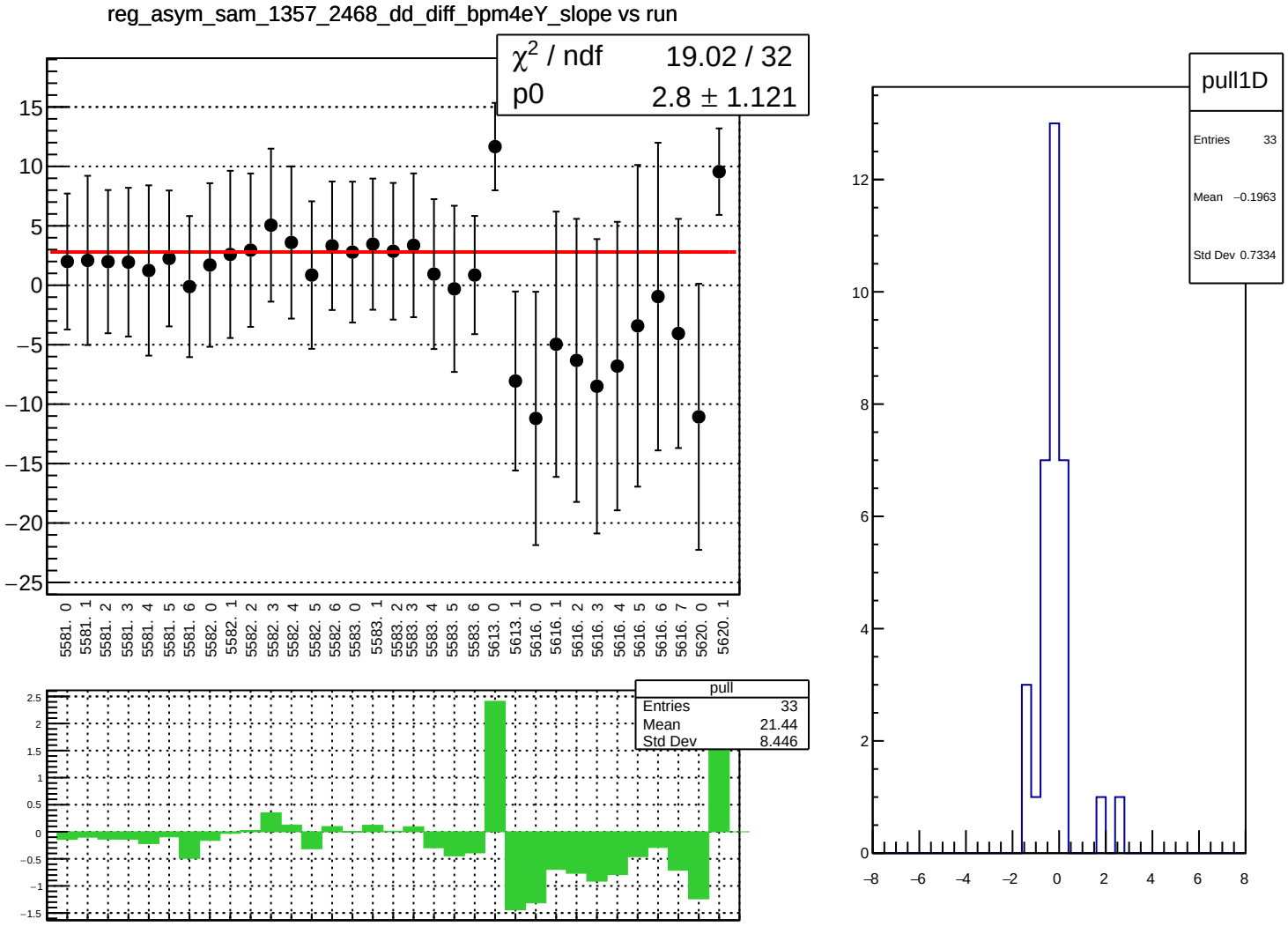

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 1240 / 32
p0 −2.652 ± 0.1399
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 54.22
Std Dev 0
5
0
−5
−10
−15
pull1D
Entries 33
Mean 1.932
Std Dev 1.332
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

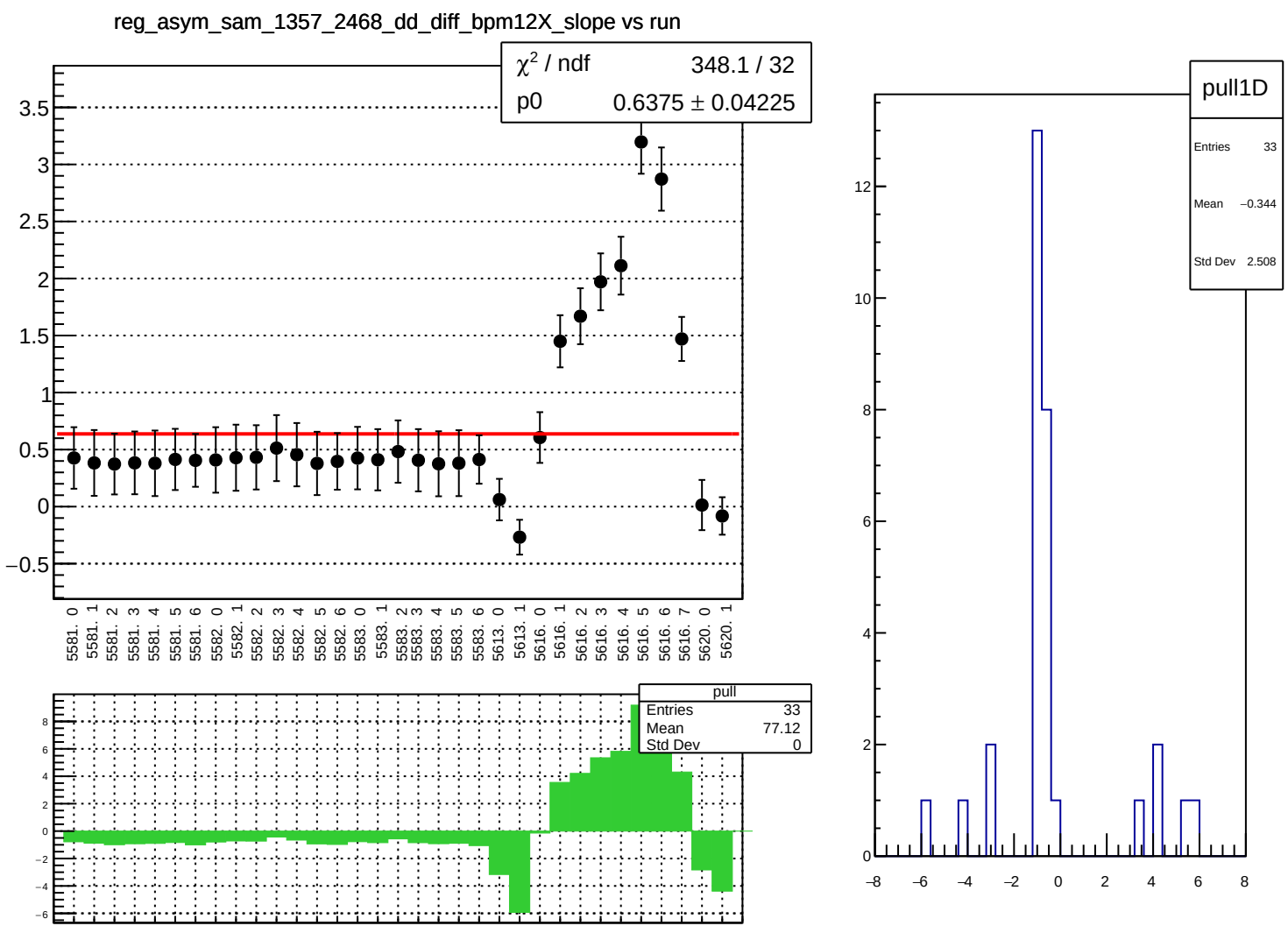

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 634.1 / 32
p0 17.15 ± 1.077
140
120
100
80
60
40
20
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 45.58
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 33
Mean −0.8333
Std Dev 2.341
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

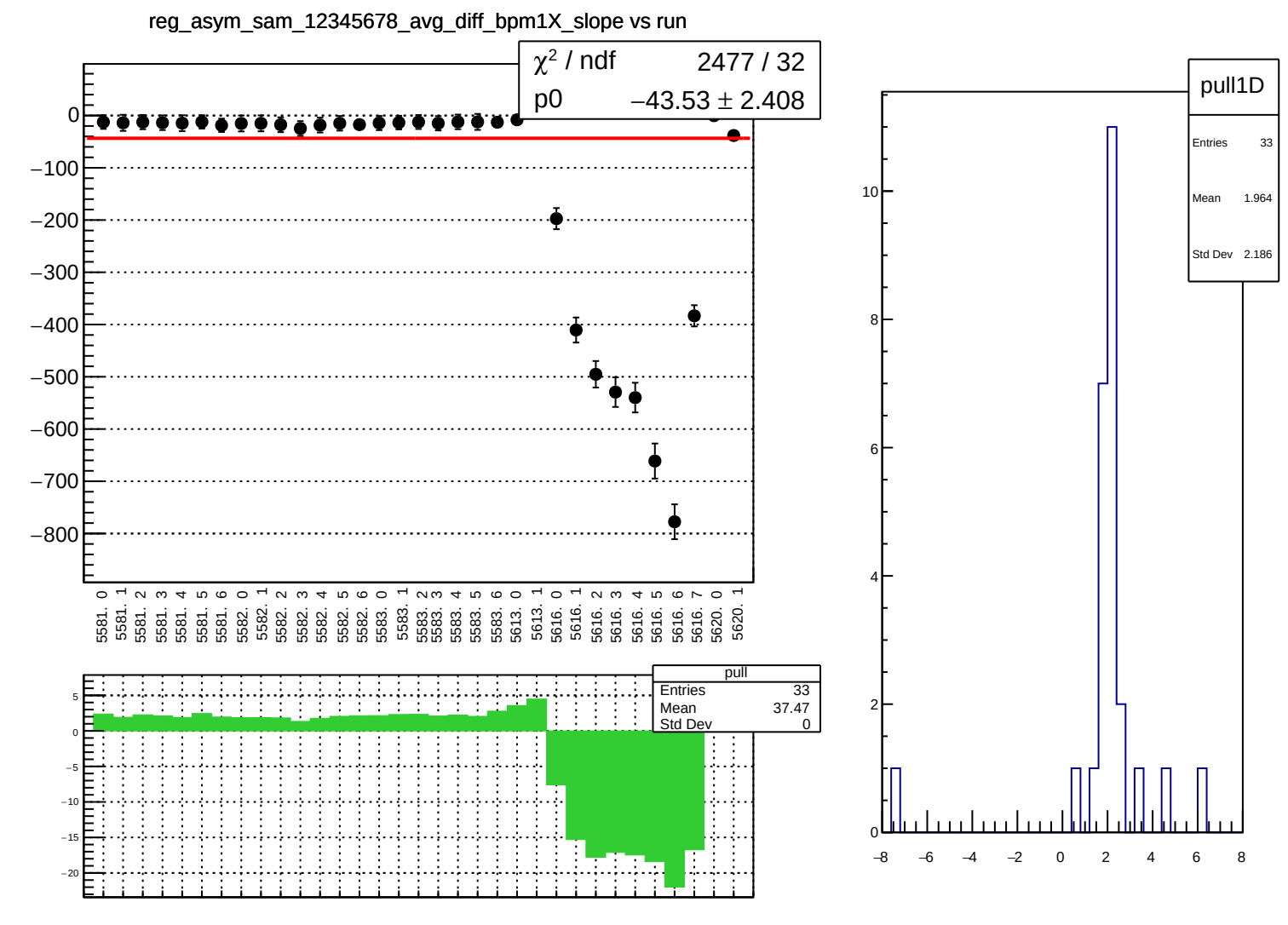

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.48 / 32
p0 6.374 ± 0.8523
pull
Entries 33
Mean 13.98
Std Dev 7.848

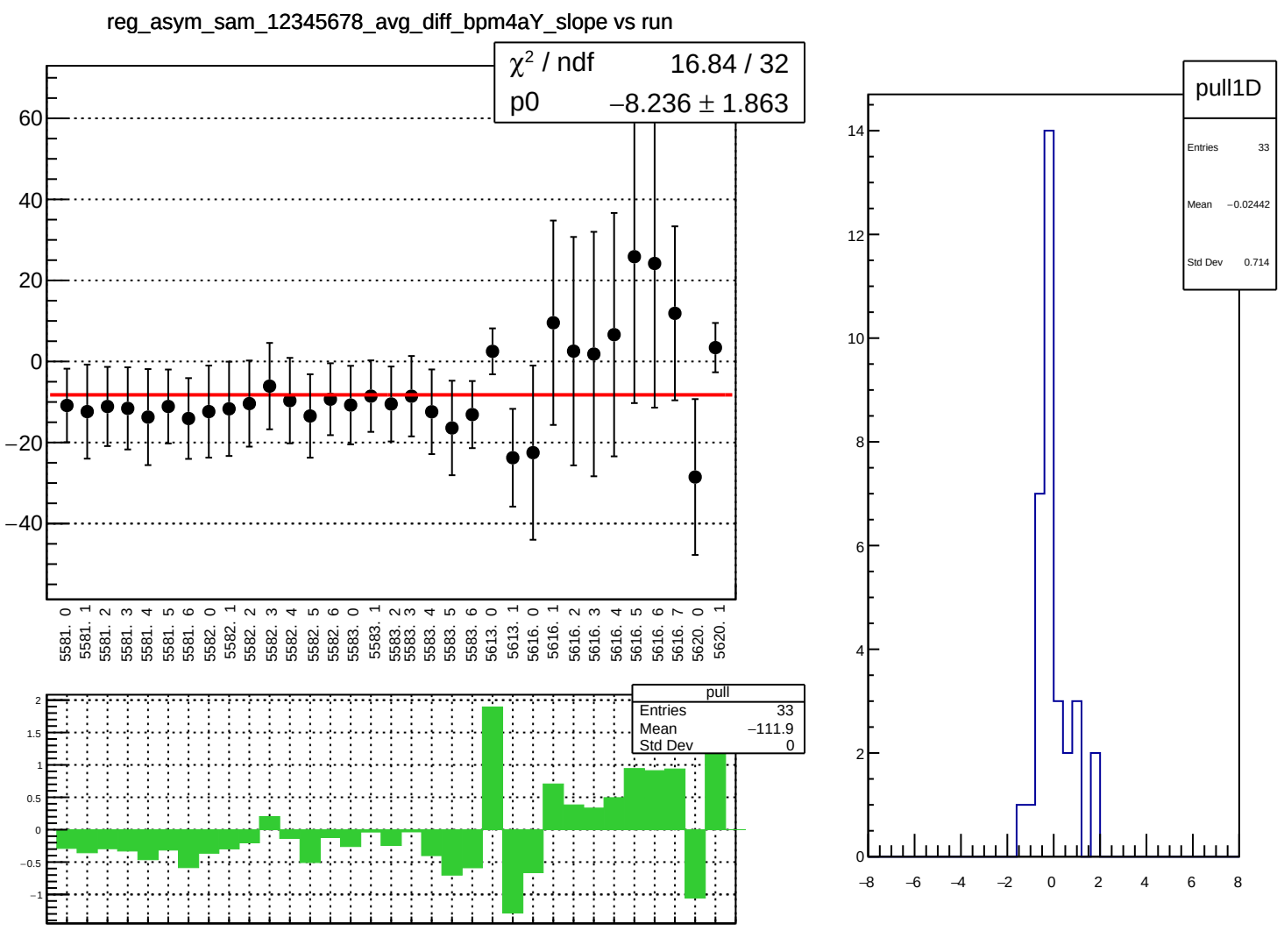

pull1D
Entries 33
Mean 0.1668
Std Dev 0.7084

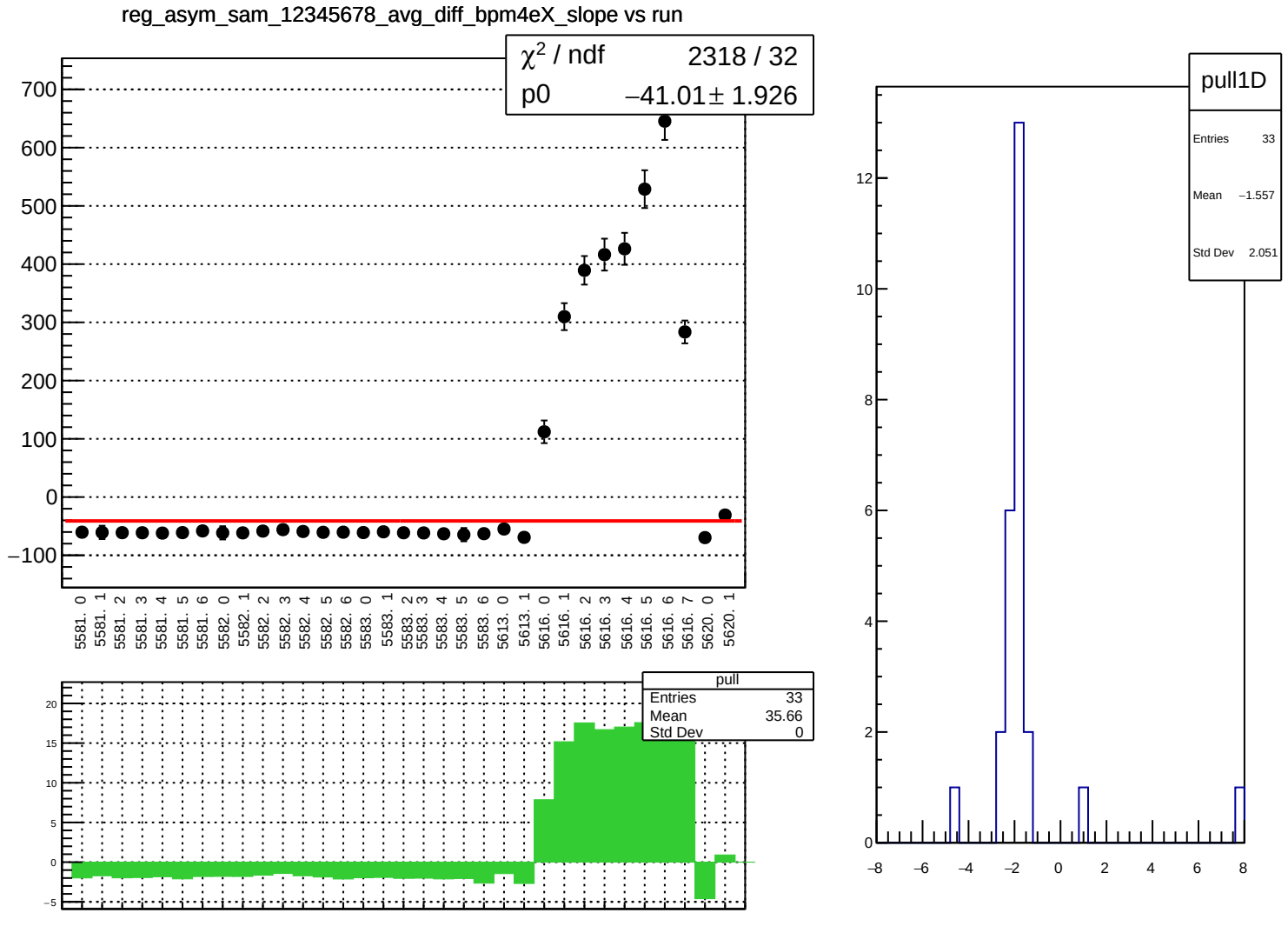

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 639.9 / 32
p0 19.96 ± 0.872
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 42.42
Std Dev 0
4
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 33
Mean 0.6352
Std Dev 2.346
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

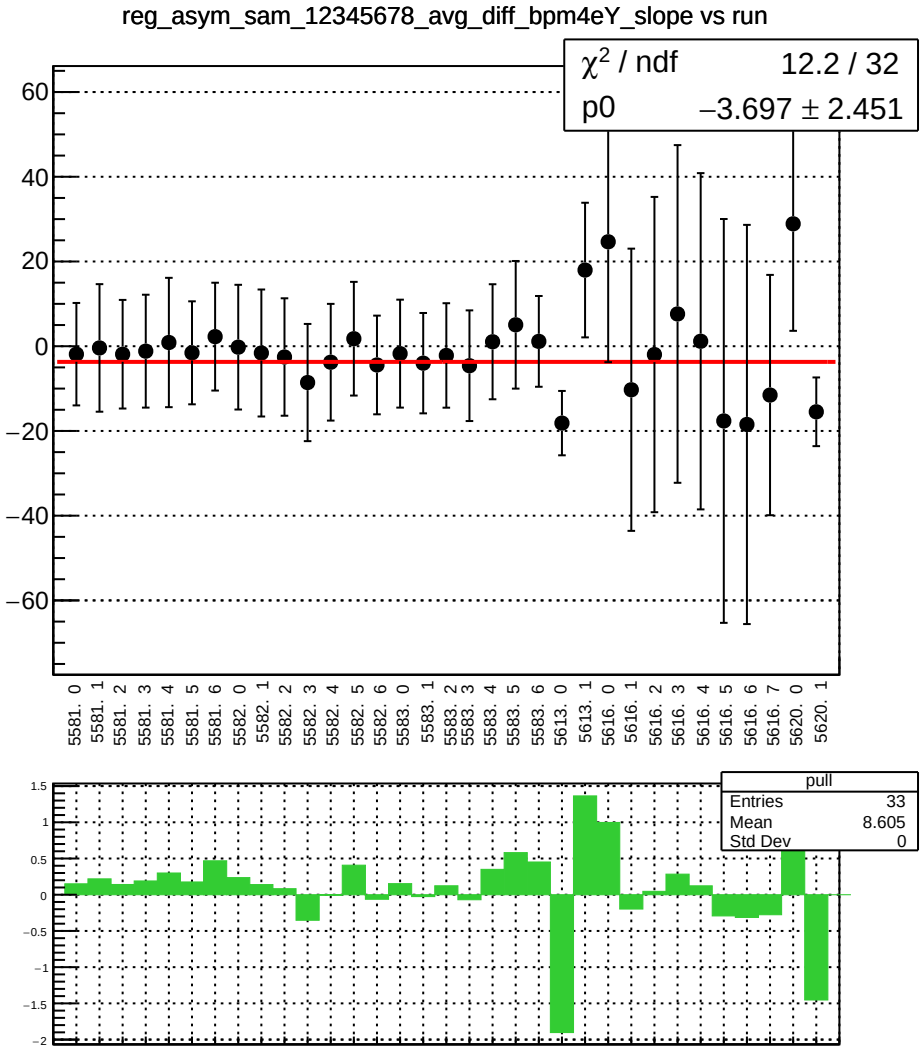

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.02 / 32
p0 2.8 ± 1.121
15
10
5
0
−5
−10
−15
−20
−25
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.44
Std Dev 8.446
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1963
Std Dev 0.7334
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

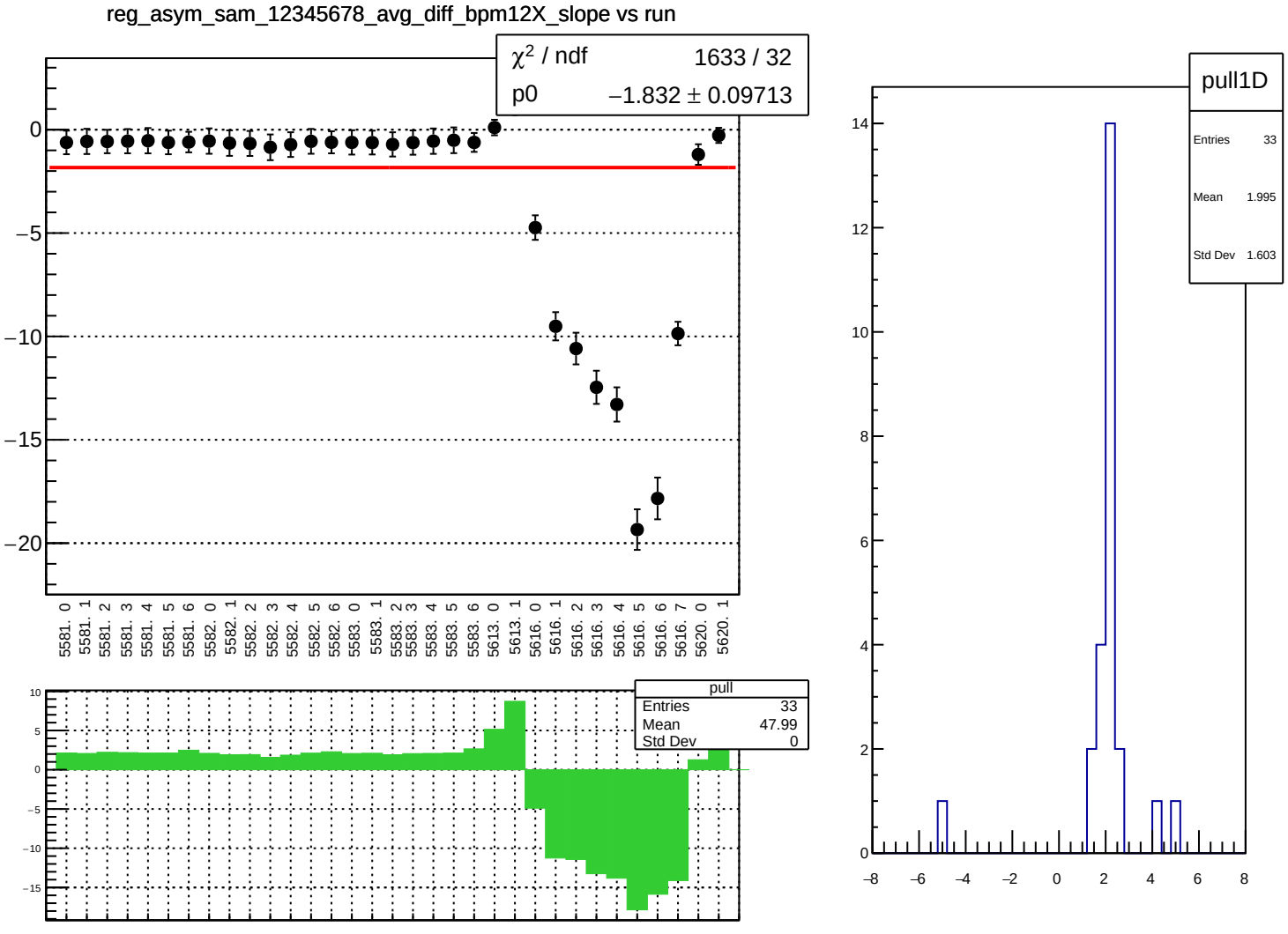

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 348.1 / 32
p0 0.6375 ± 0.04225
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 77.12
Std Dev 0
8
6
4
2
0
−2
−4
−6
pull1D
Entries 33
Mean −0.344
Std Dev 2.508
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

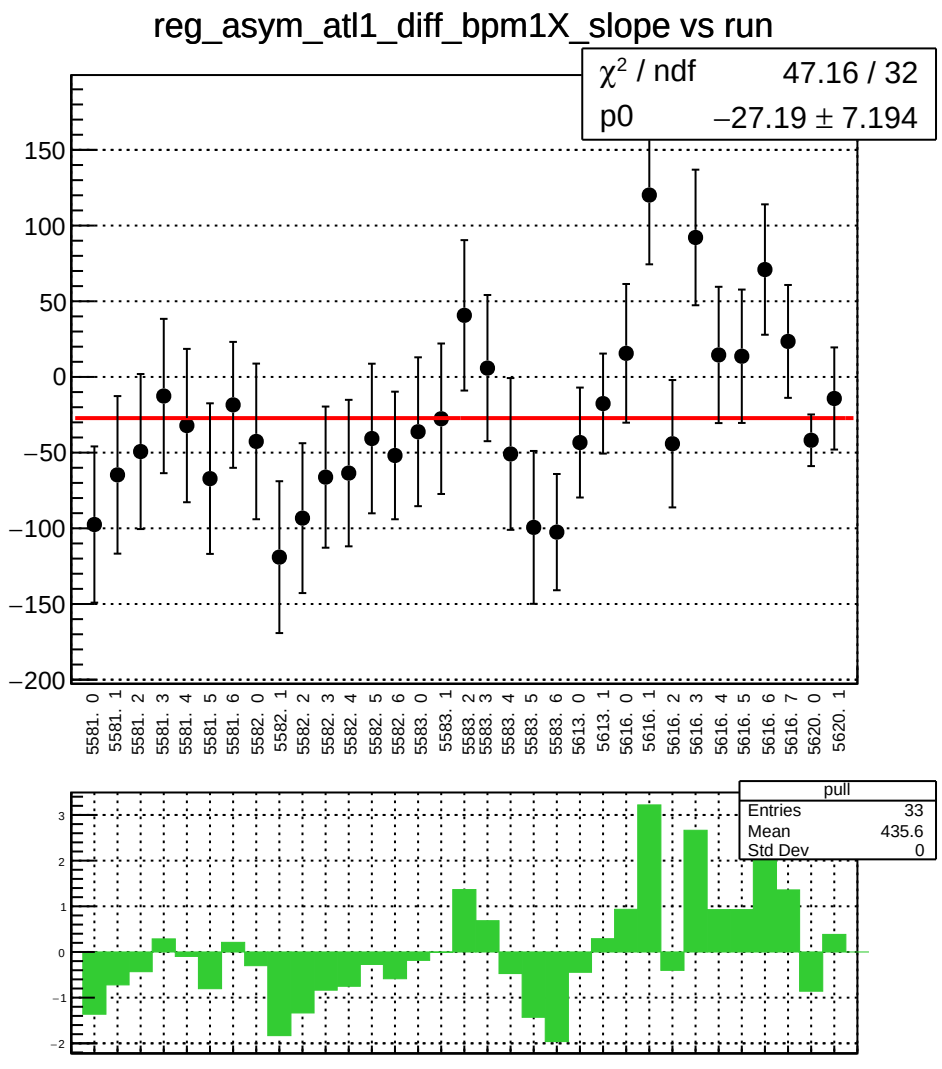

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 2477 / 32
p0 −43.53 ± 2.408
0
−100
−200
−300
−400
−500
−600
−700
−800
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.47
Std Dev 0
5
0
−5
−10
−15
−20
pull1D
Entries 33
Mean 1.964
Std Dev 2.186
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

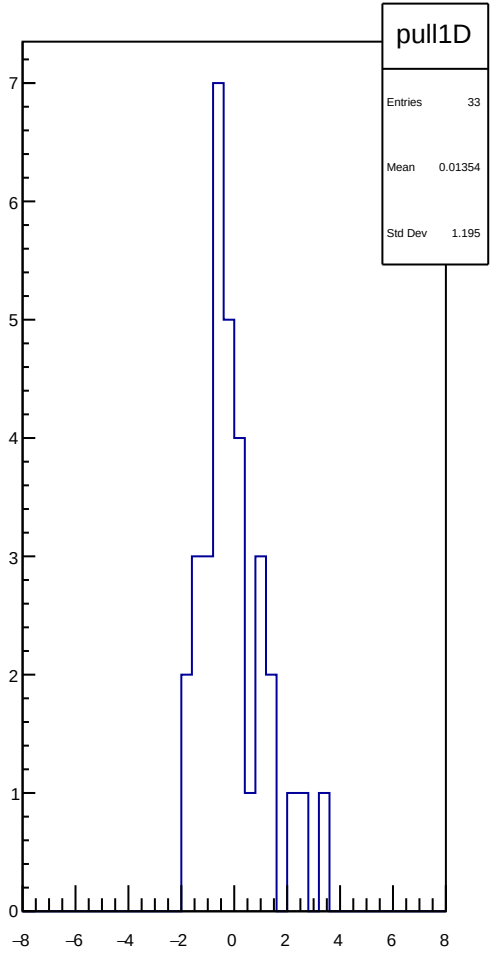

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.84 / 32
p0 −8.236 ± 1.863
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −111.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean −0.02442
Std Dev 0.714
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

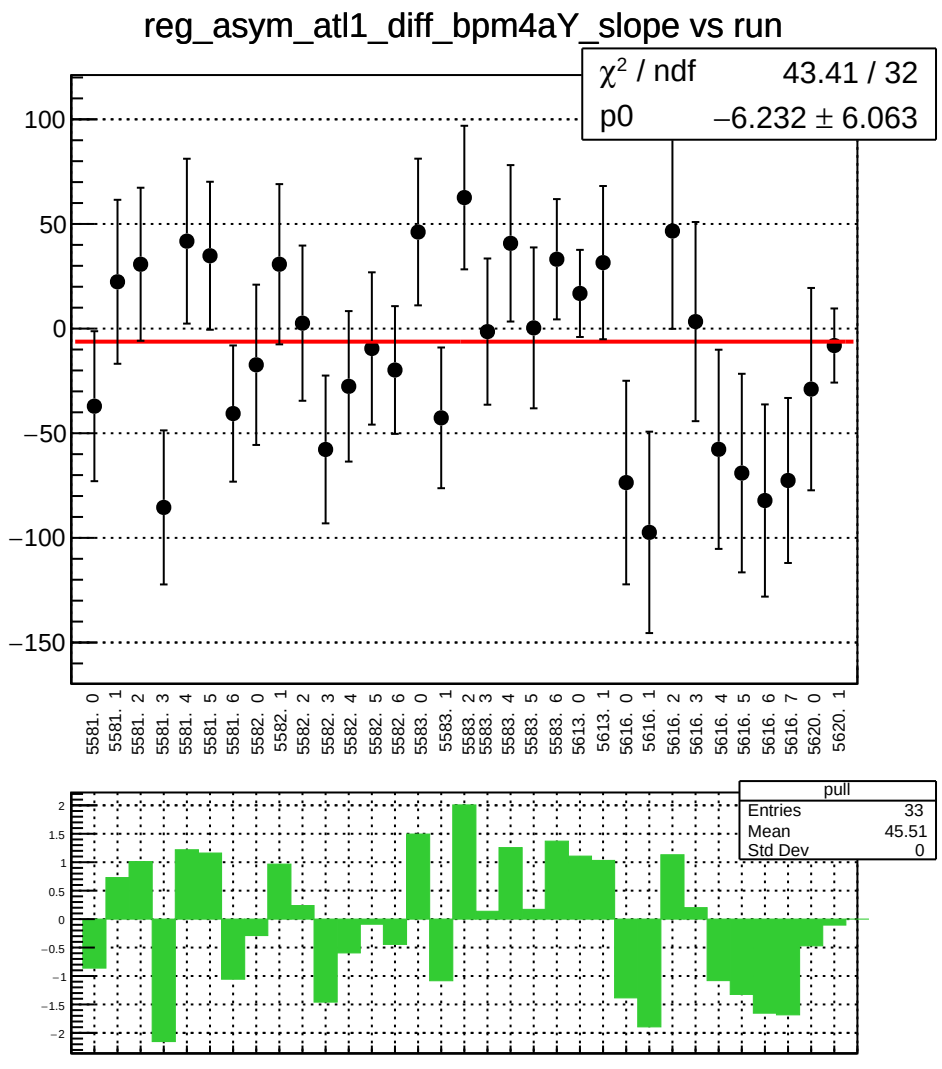

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 2318 / 32
p0 −41.01± 1.926
700
600
500
400
300
200
100
0
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 35.66
Std Dev 0
20
15
10
5
0
−5
pull1D
Entries 33
Mean −1.557
Std Dev 2.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

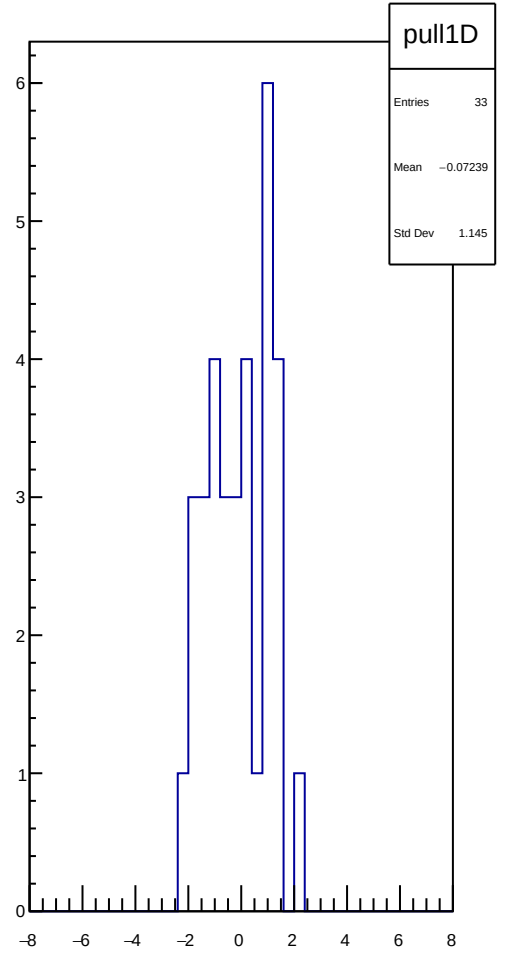

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.2 / 32
p0 −3.697 ± 2.451
pull
Entries 33
Mean 8.605
Std Dev 0
pull1D
Entries 33
Mean 0.1007
Std Dev 0.5997

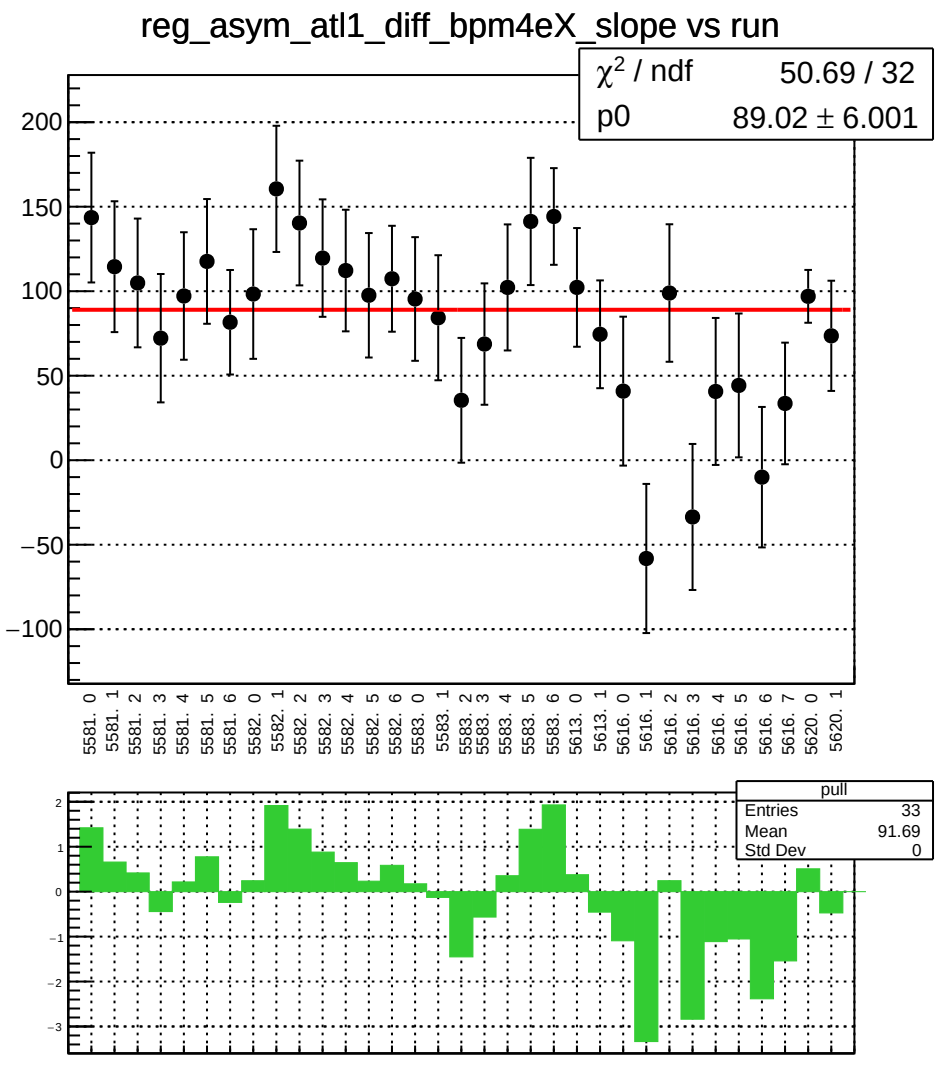

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1633 / 32
p0 −1.832 ± 0.09713
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 47.99
Std Dev 0
10
5
0
−5
−10
−15
pull1D
Entries 33
Mean 1.995
Std Dev 1.603
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

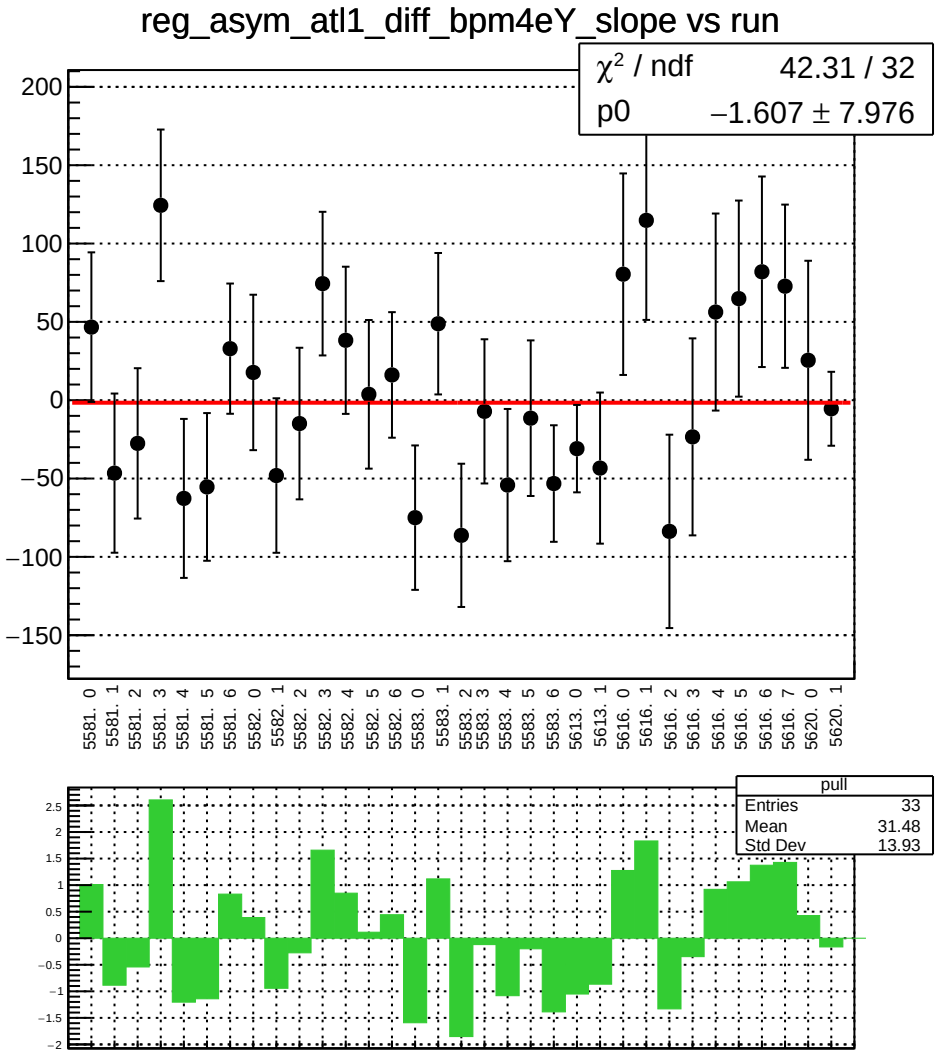

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 47.16 / 32
p0 −27.19 ± 7.194
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 435.6
Std Dev 0
3
2
1
0
−1
−2

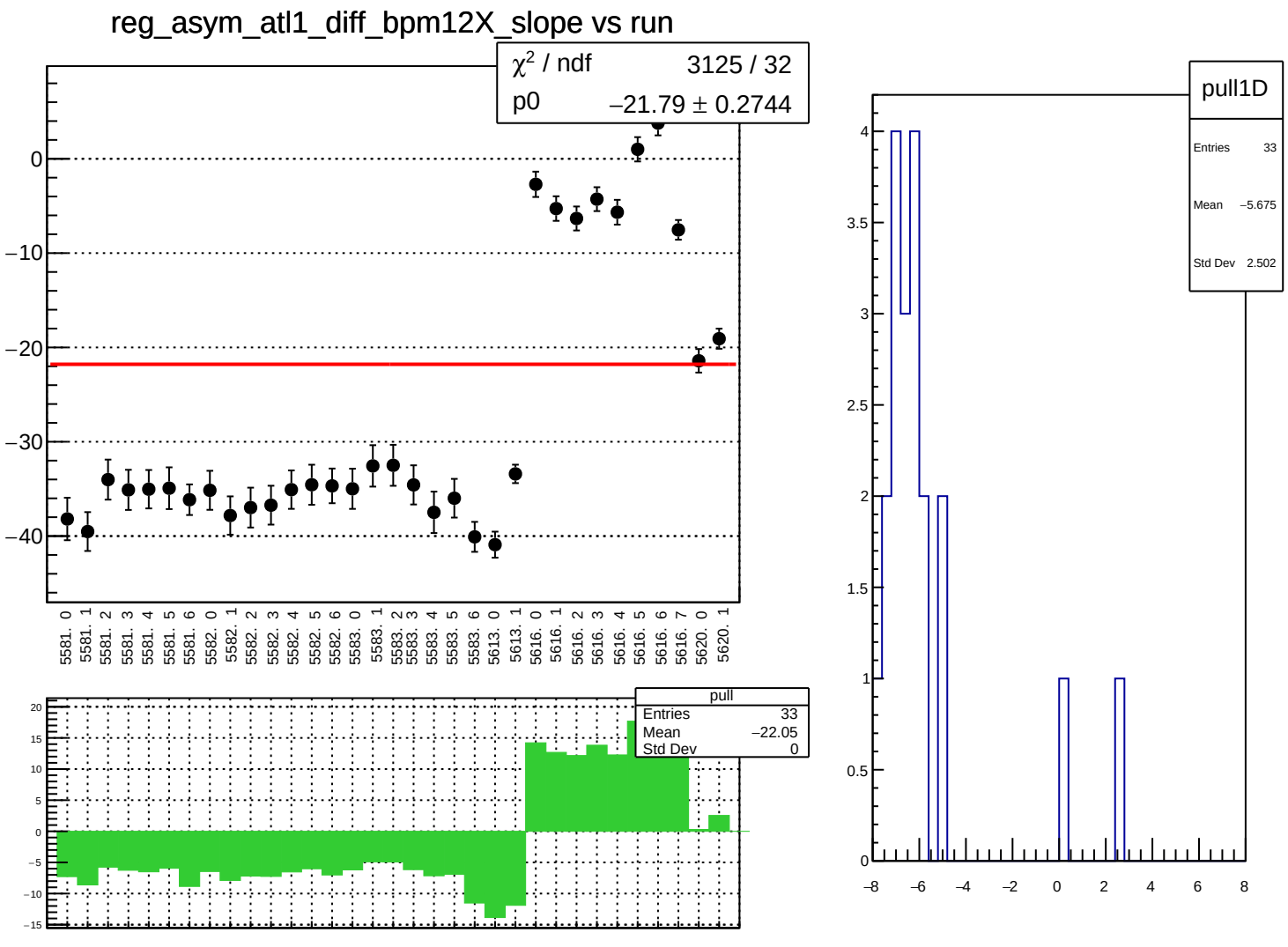

pull1D
Entries 33
Mean 0.01354
Std Dev 1.195
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

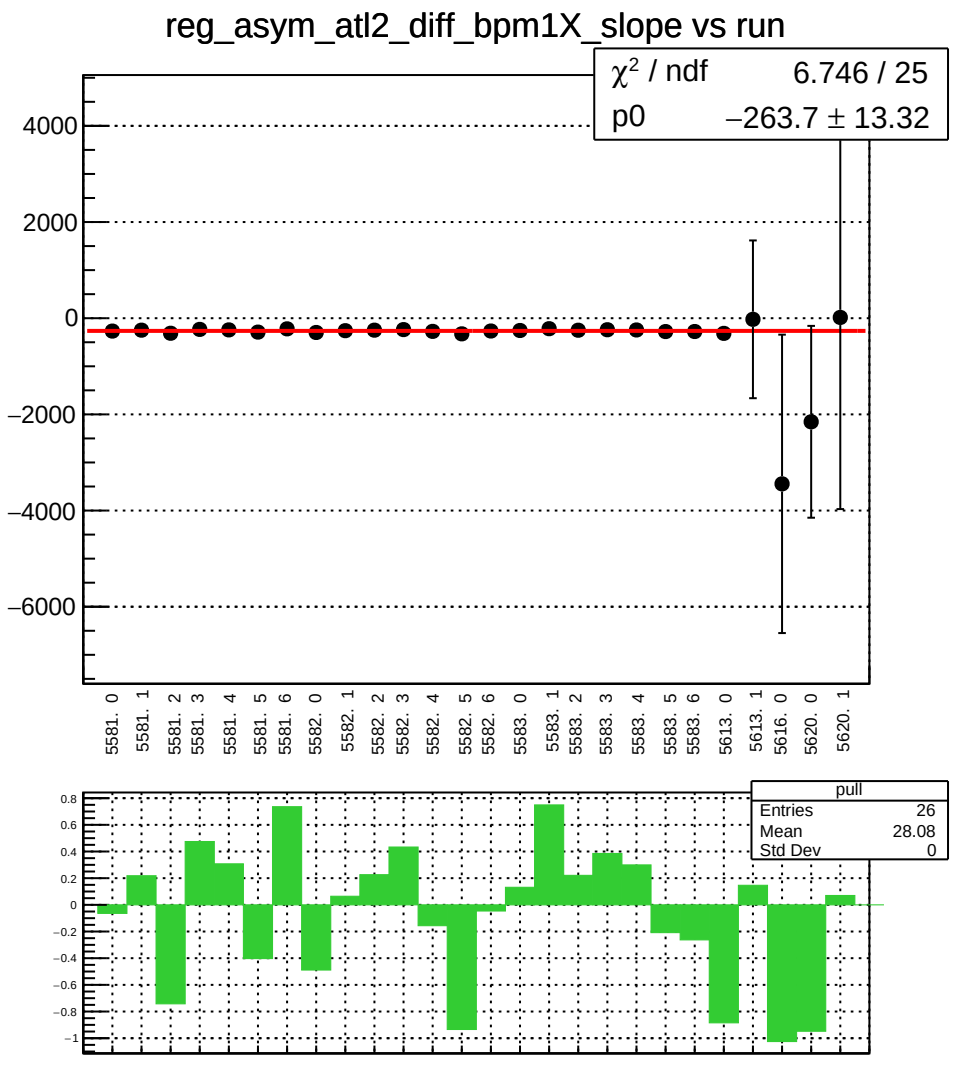

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 43.41 / 32
p0 −6.232 ± 6.063
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 45.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

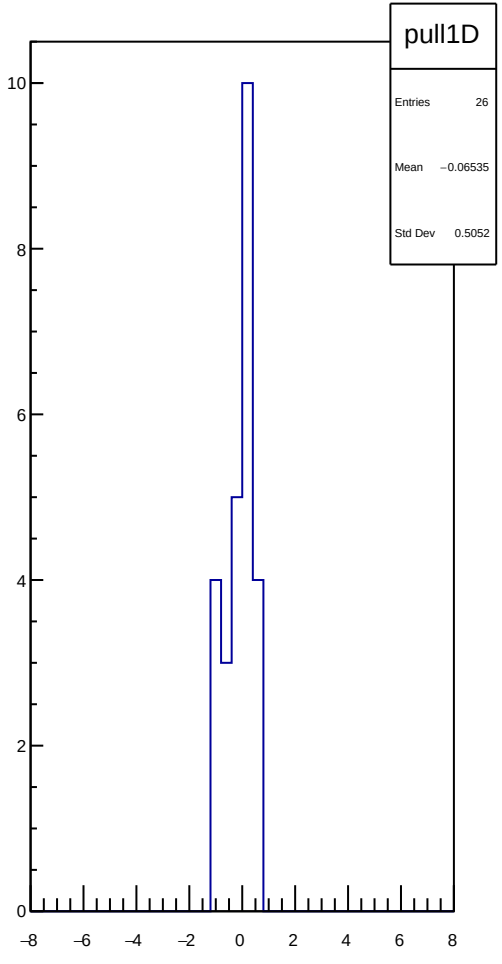

pull1D
Entries 33
Mean −0.07239
Std Dev 1.145
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

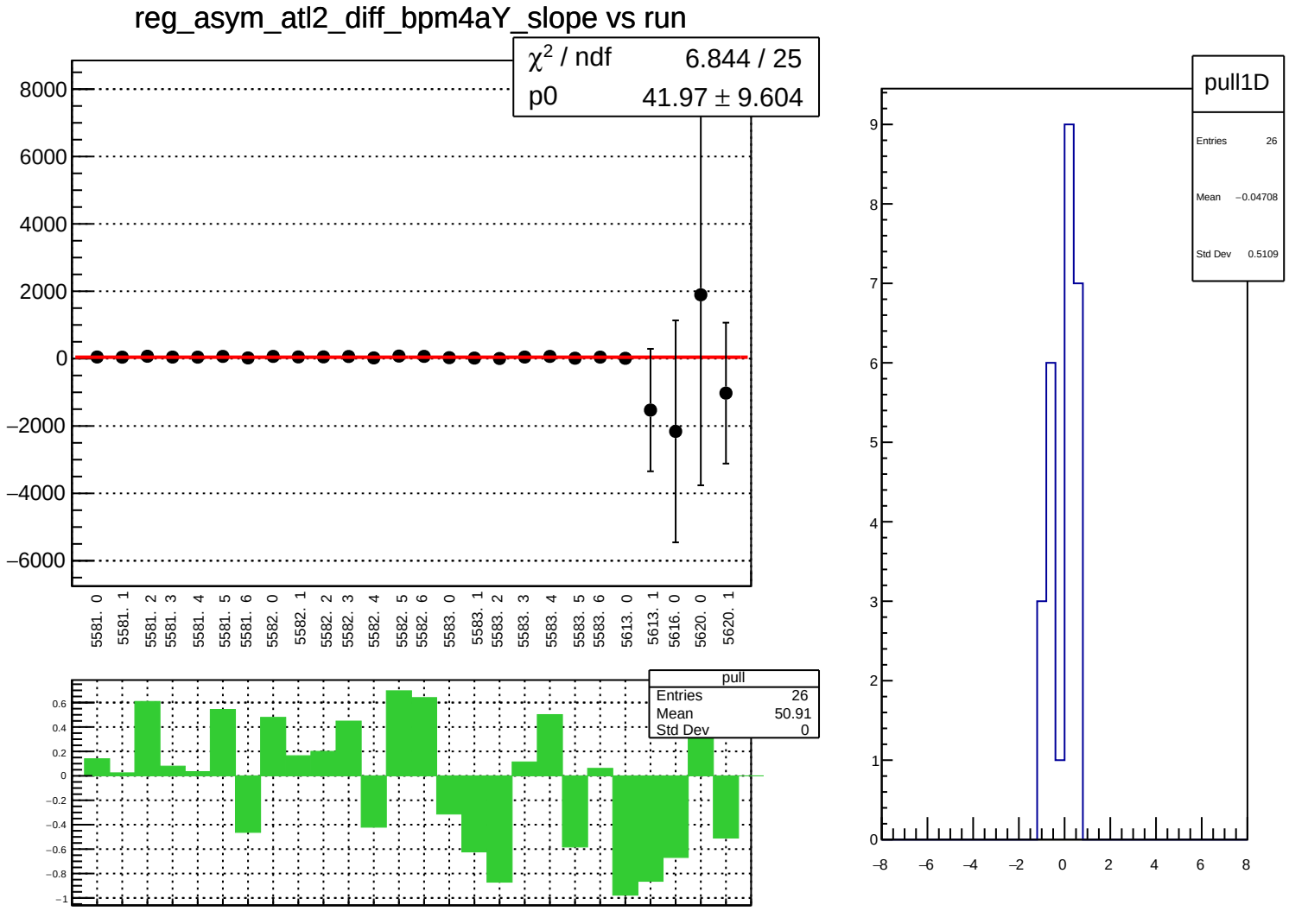

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 50.69 / 32
p0 89.02 ± 6.001
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 91.69
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean −0.08334
Std Dev 1.237
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

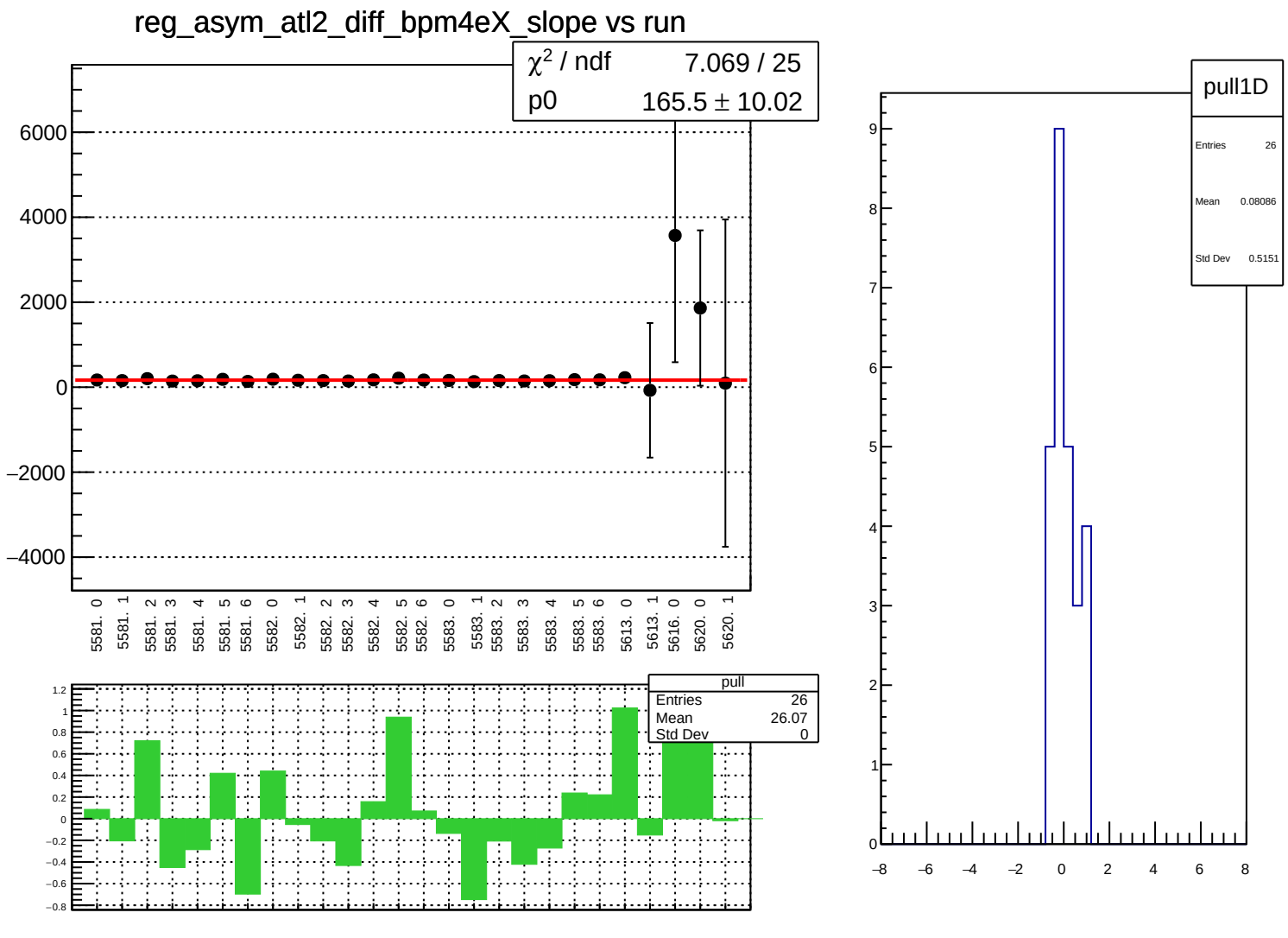

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 42.31 / 32
p0 −1.607 ± 7.976
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.48
Std Dev 13.93
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.07142
Std Dev 1.13
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

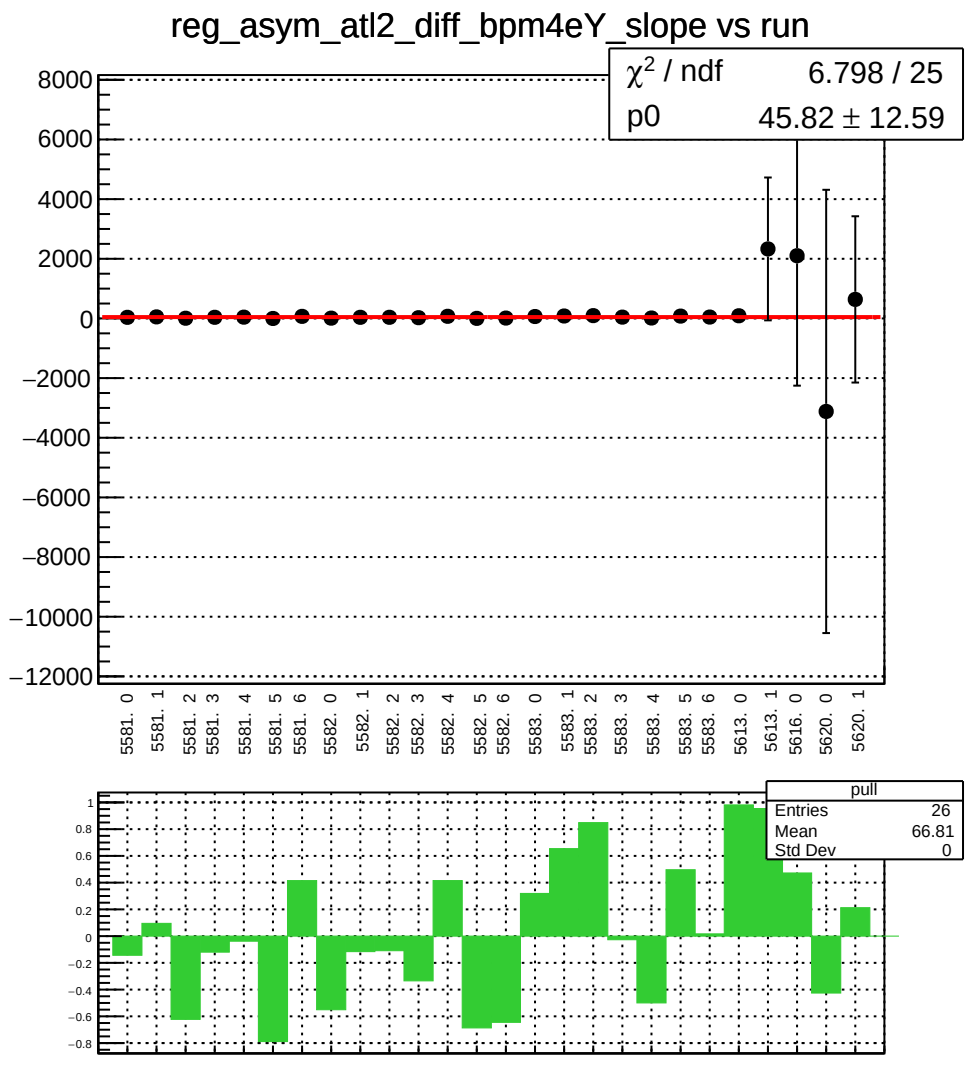

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 3125 / 32
p0 −21.79 ± 0.2744
0
−10
−20
−30
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −22.05
Std Dev 0
20
15
10
5
0
−5
−10
−15
pull1D
Entries 33
Mean −5.675
Std Dev 2.502
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

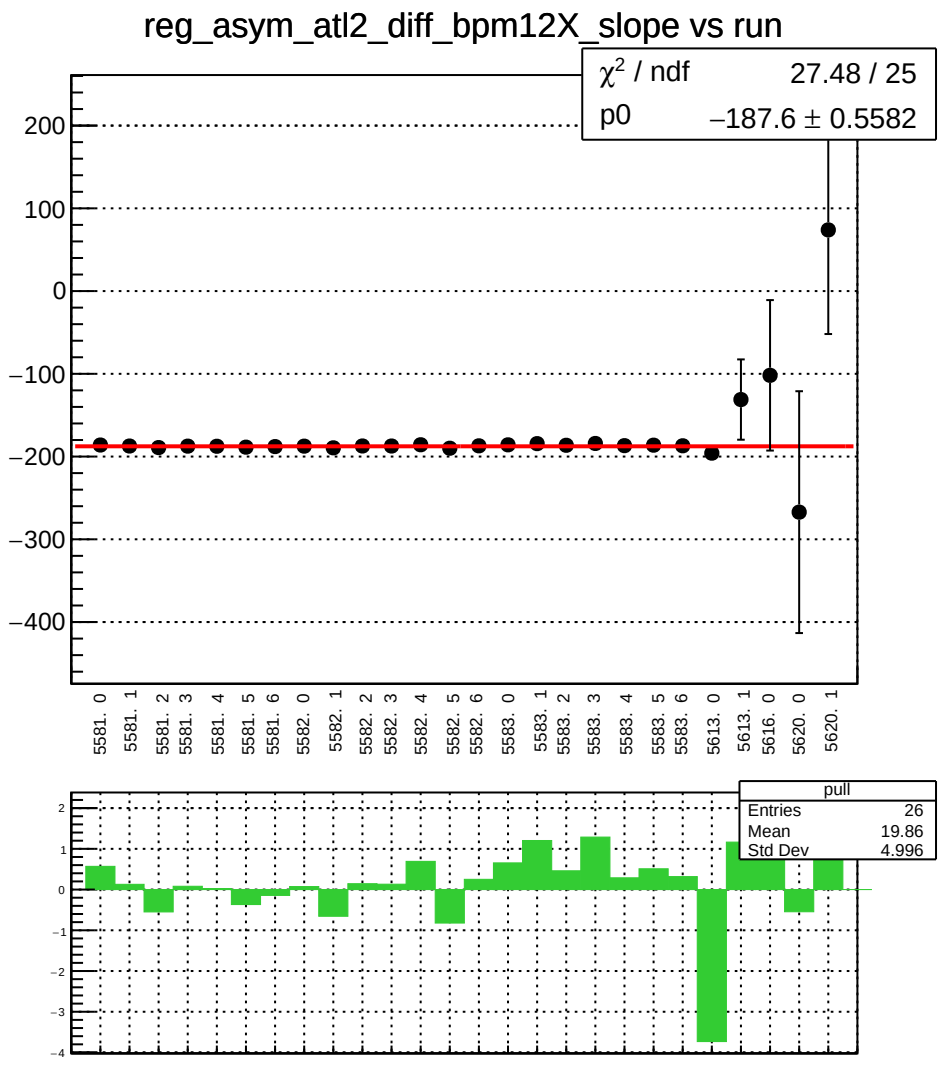

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 6.746 / 25
p0 −263.7 ± 13.32
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 28.08
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

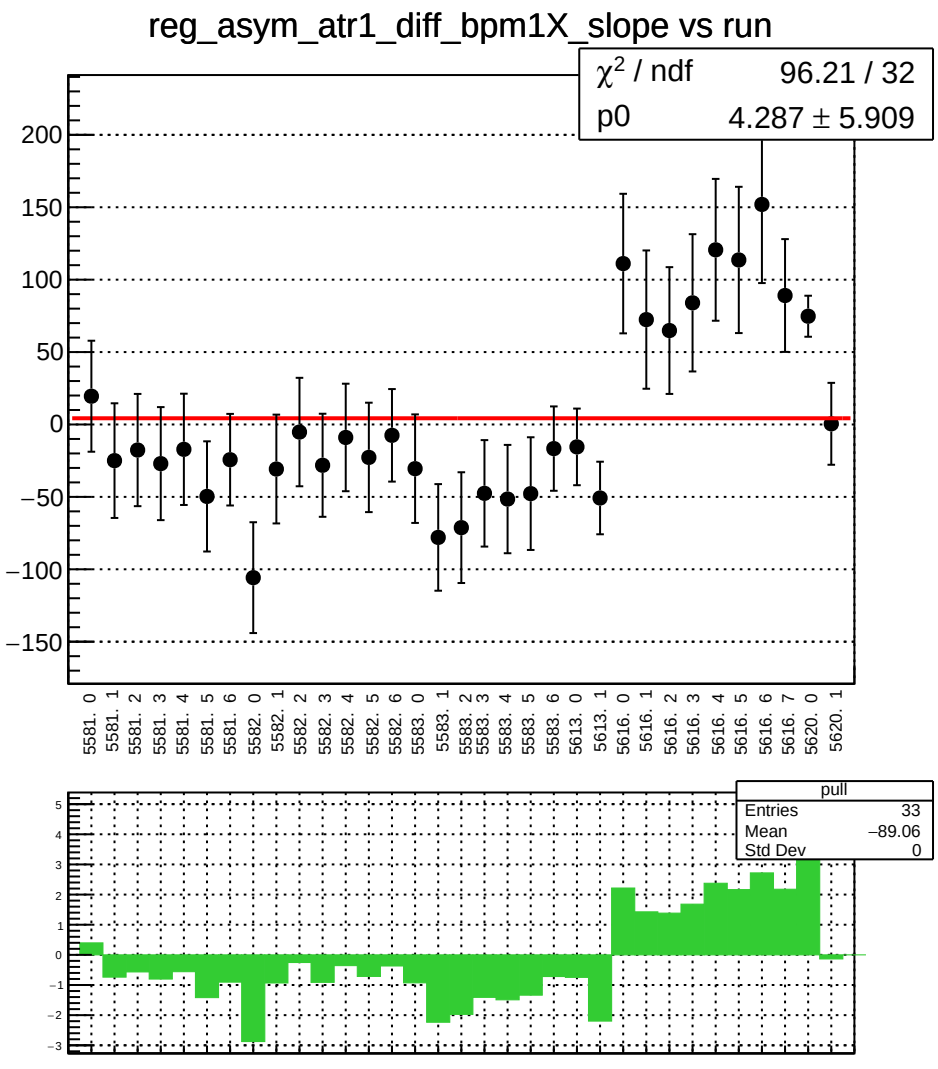

pull1D
Entries 26
Mean −0.06535
Std Dev 0.5052
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

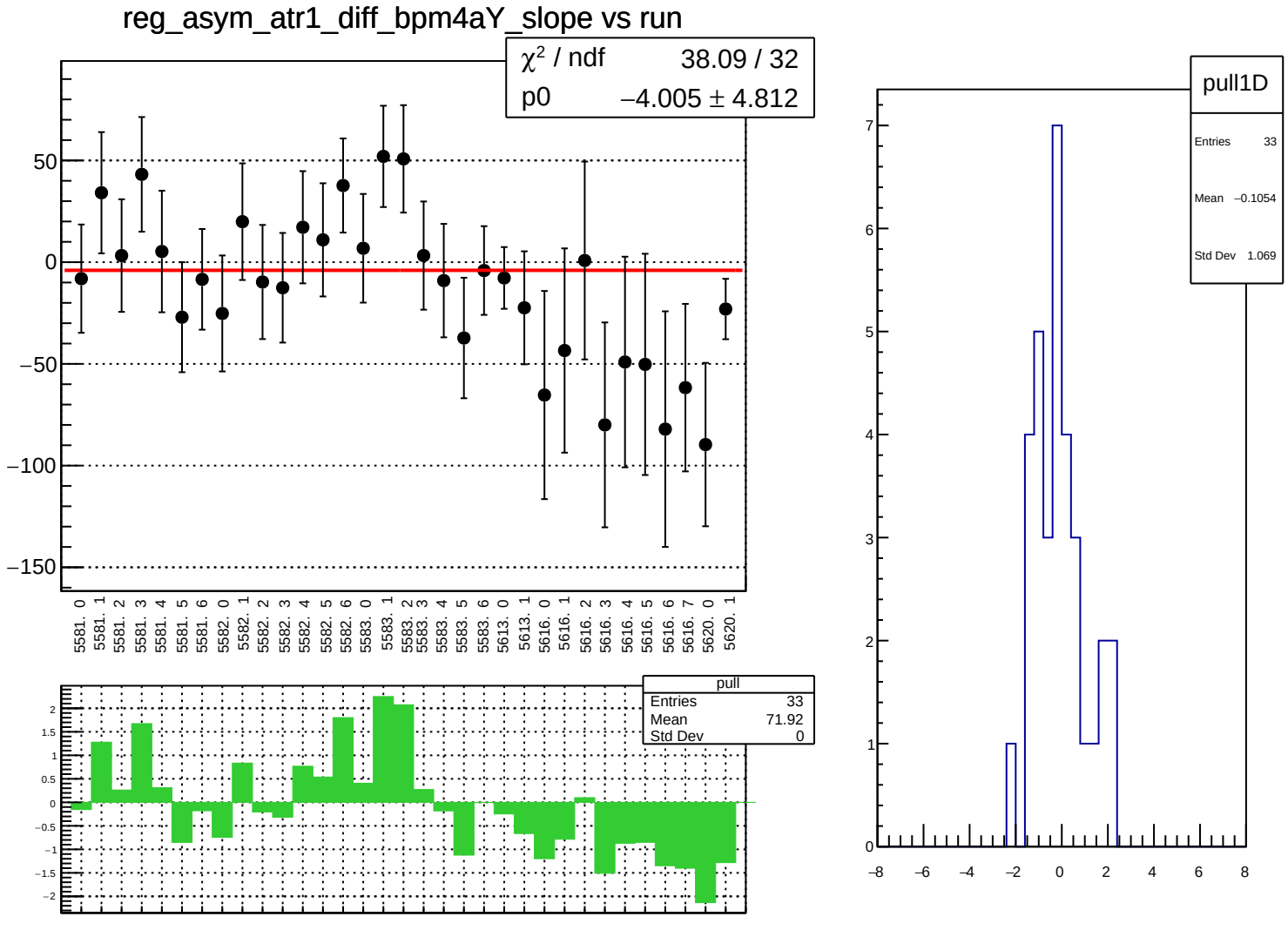

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 6.844 / 25
p0 41.97 ± 9.604
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 50.91
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 26
Mean −0.04708
Std Dev 0.5109
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

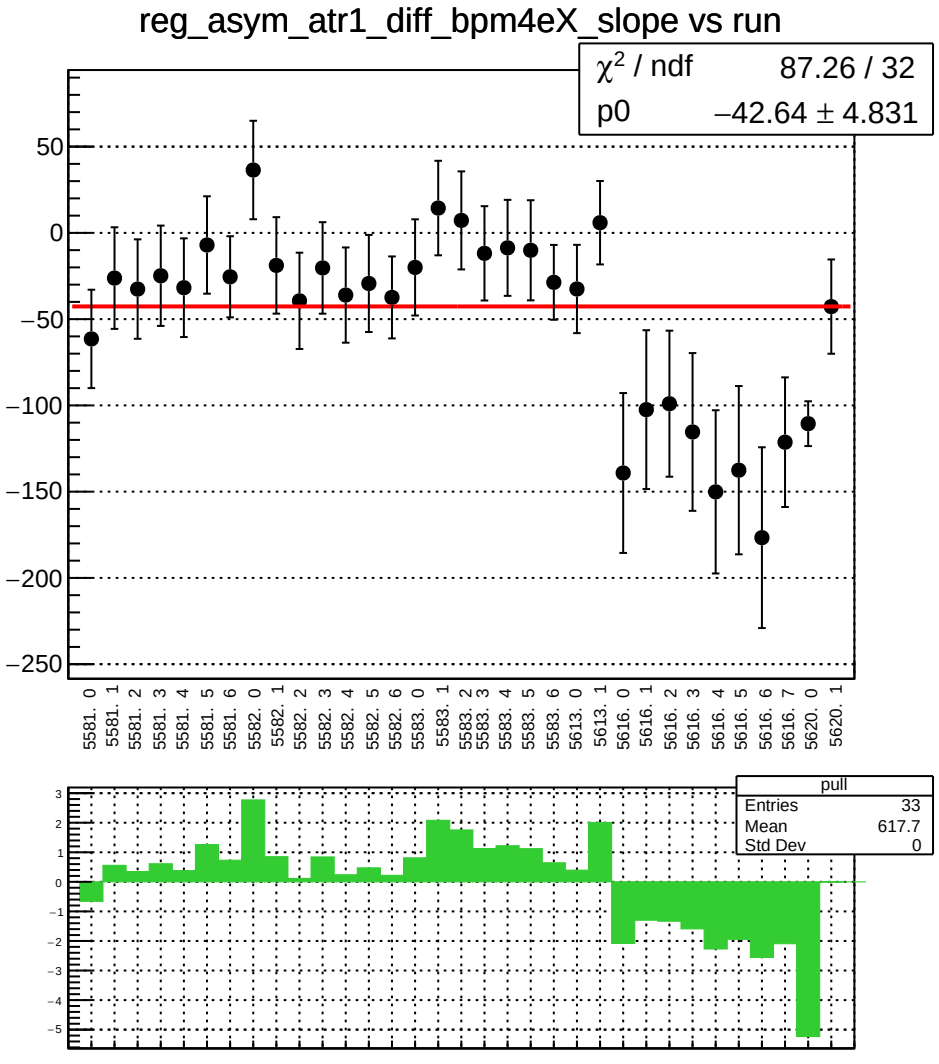

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 7.069 / 25
p0 165.5 ± 10.02
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 26.07
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 26
Mean 0.08086
Std Dev 0.5151
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

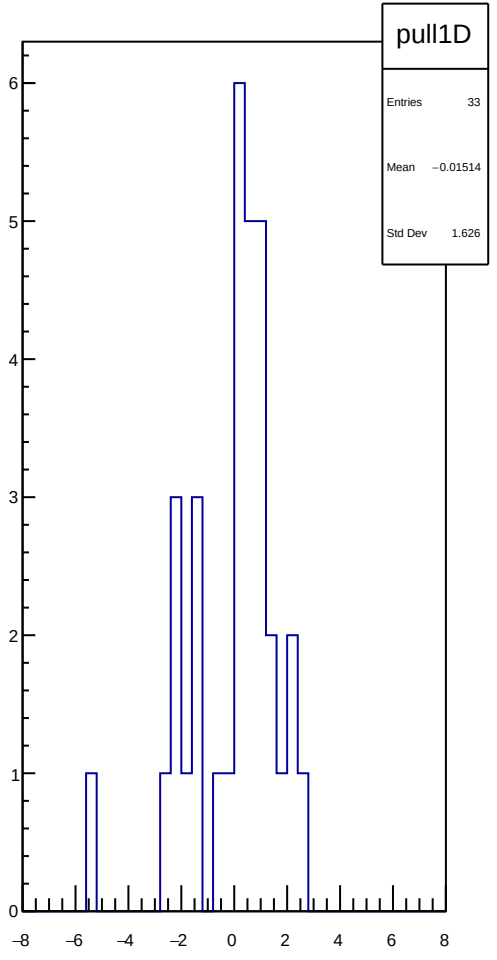

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 6.798 / 25
p0 45.82 ± 12.59
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 66.81
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 26
Mean 0.02985
Std Dev 0.5105
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

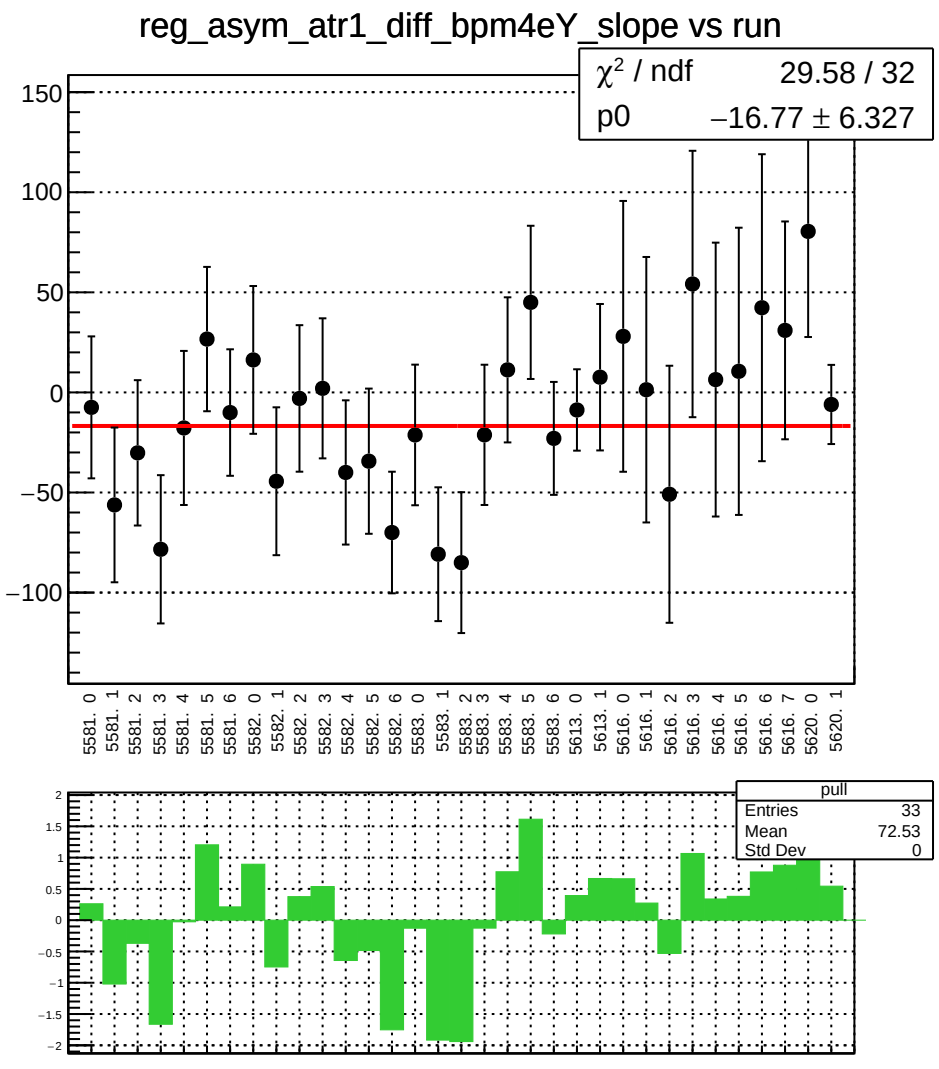

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 27.48 / 25
p0 −187.6 ± 0.5582
200
100
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5620. 0
5620. 1
pull
Entries 26
Mean 19.86
Std Dev 4.996
2
1
0
−1
−2
−3
−4
pull1D
Entries 26
Mean 0.1612
Std Dev 1.015
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

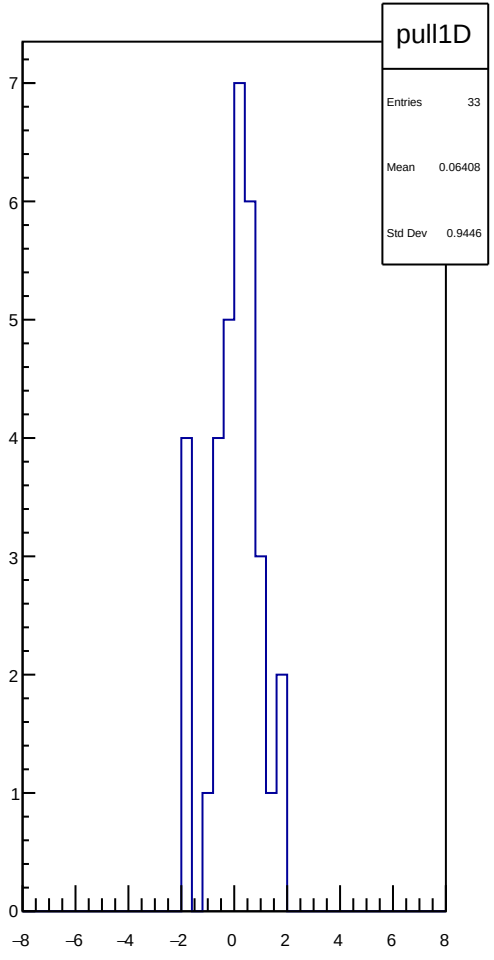

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 96.21 / 32
p0 4.287 ± 5.909
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −89.06
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean −0.09281
Std Dev 1.705
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

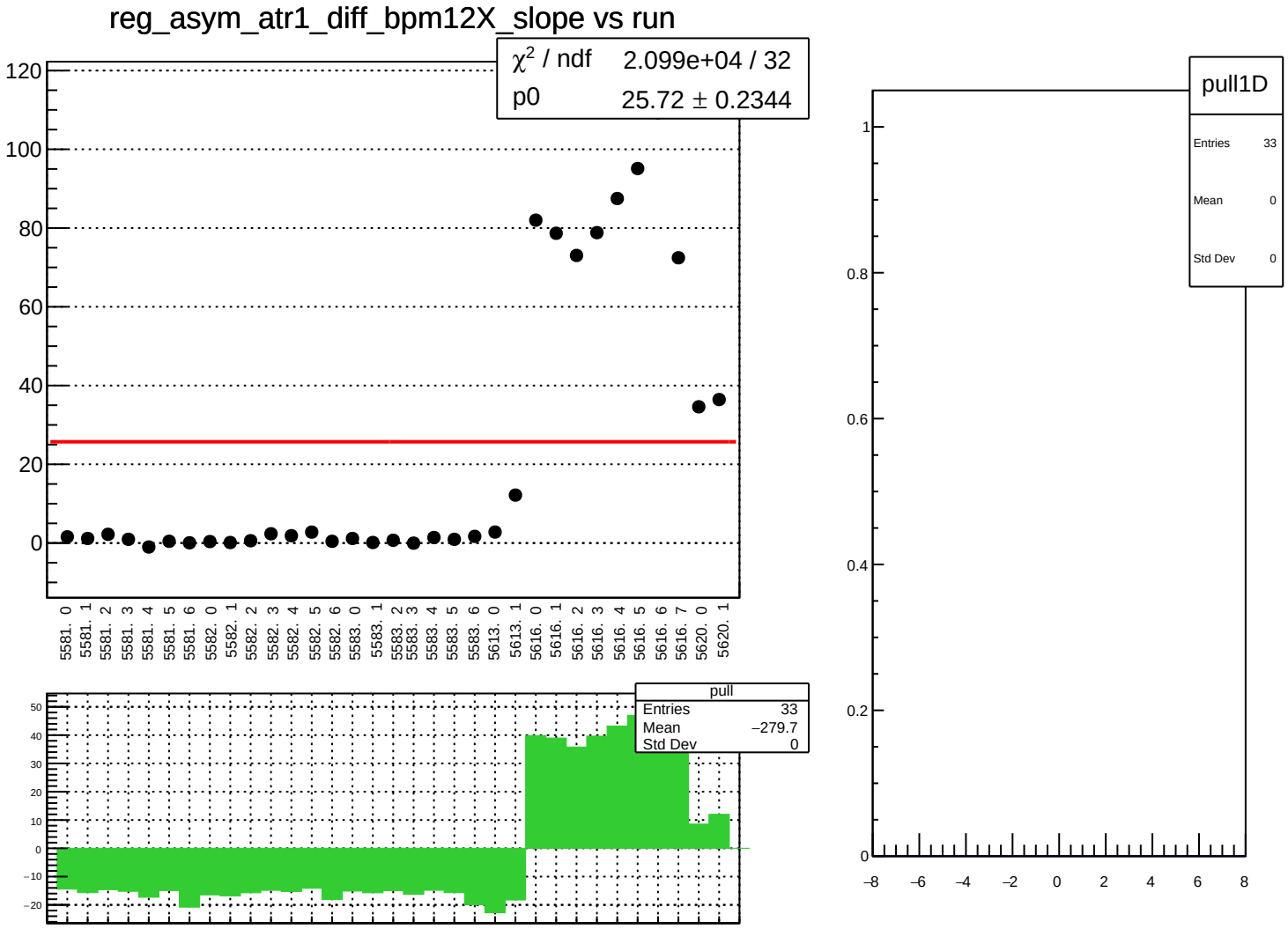

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 38.09 / 32
p0 −4.005 ± 4.812
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 71.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1054
Std Dev 1.069
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

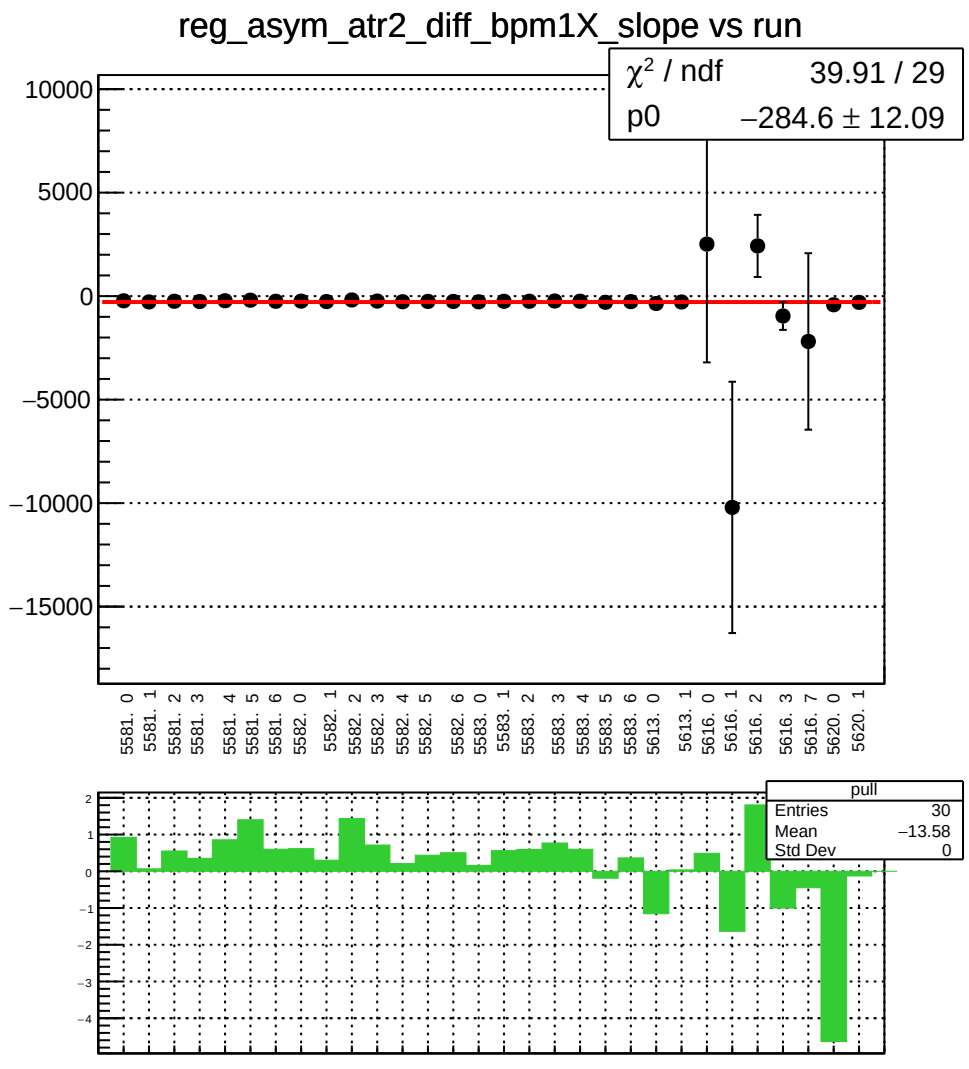

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 87.26 / 32
p0 −42.64 ± 4.831
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 617.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5

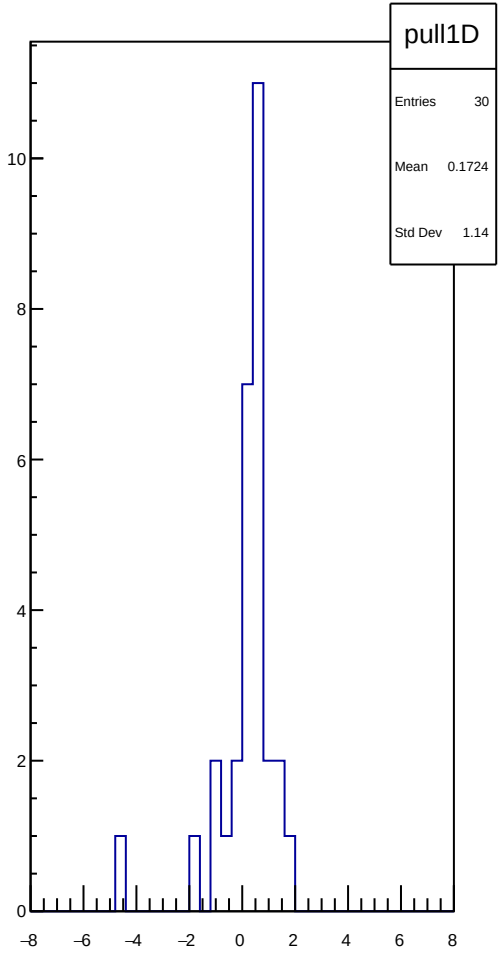

pull1D
Entries 33
Mean −0.01514
Std Dev 1.626
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

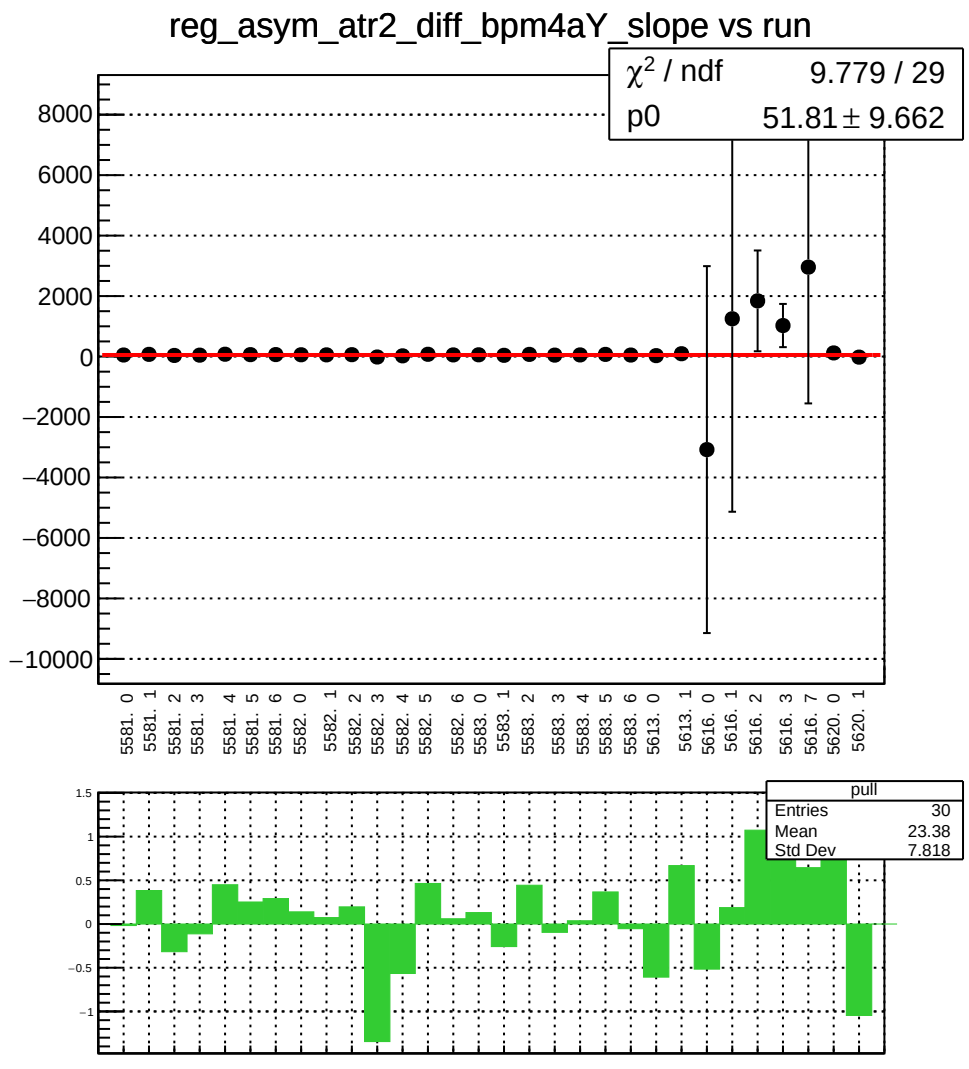

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 29.58 / 32
p0 −16.77 ± 6.327
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 72.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

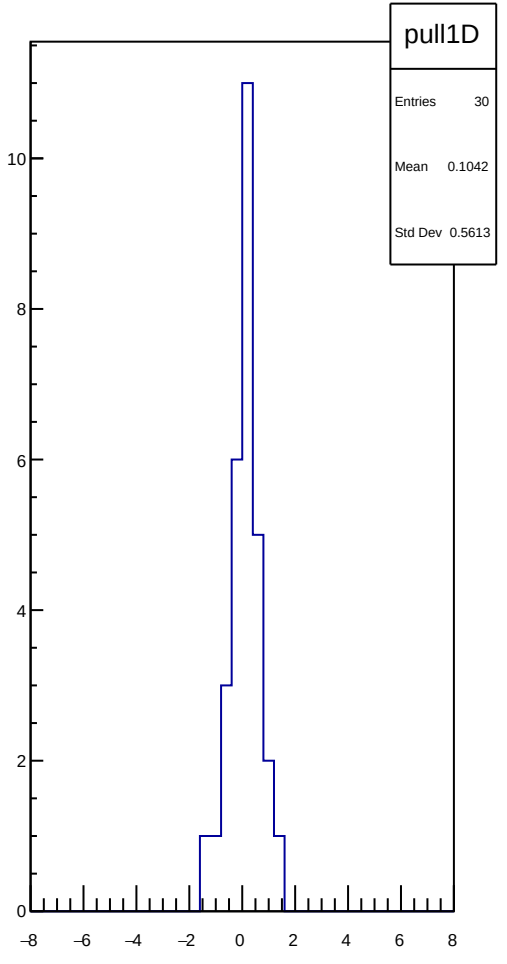

pull1D
Entries 33
Mean 0.06408
Std Dev 0.9446
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

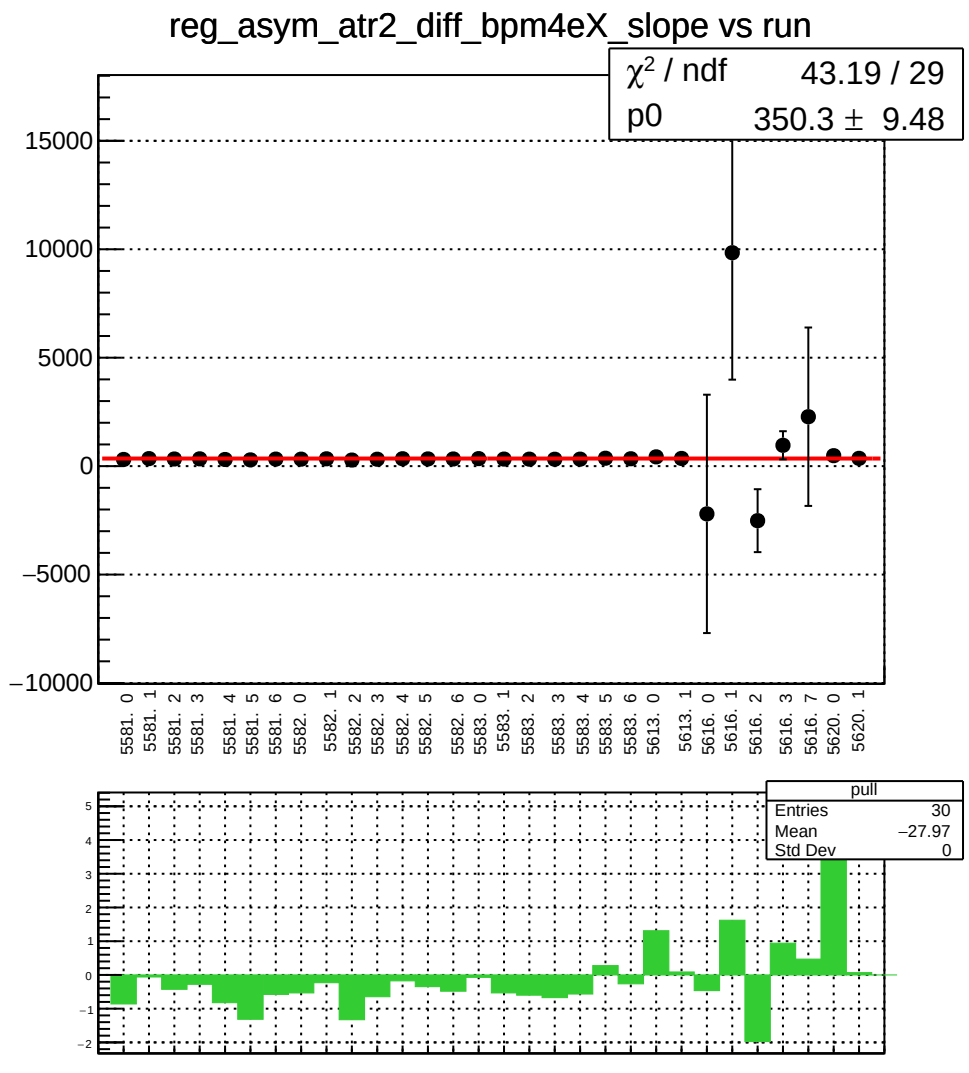

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 2.099e+04 / 32
p0 25.72 ± 0.2344
120
100
80
60
40
20
0
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −279.7
Std Dev 0
50
40
30
20
10
0
−10
−20
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

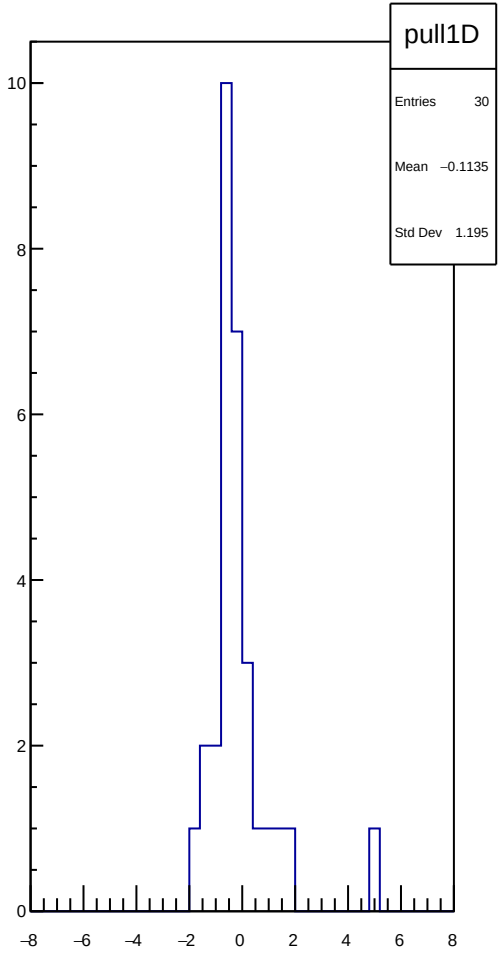

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 39.91 / 29
p0 −284.6 ± 12.09
10000
5000
0
−5000
−10000
−15000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean −13.58
Std Dev 0
2
1
0
−1
−2
−3
−4

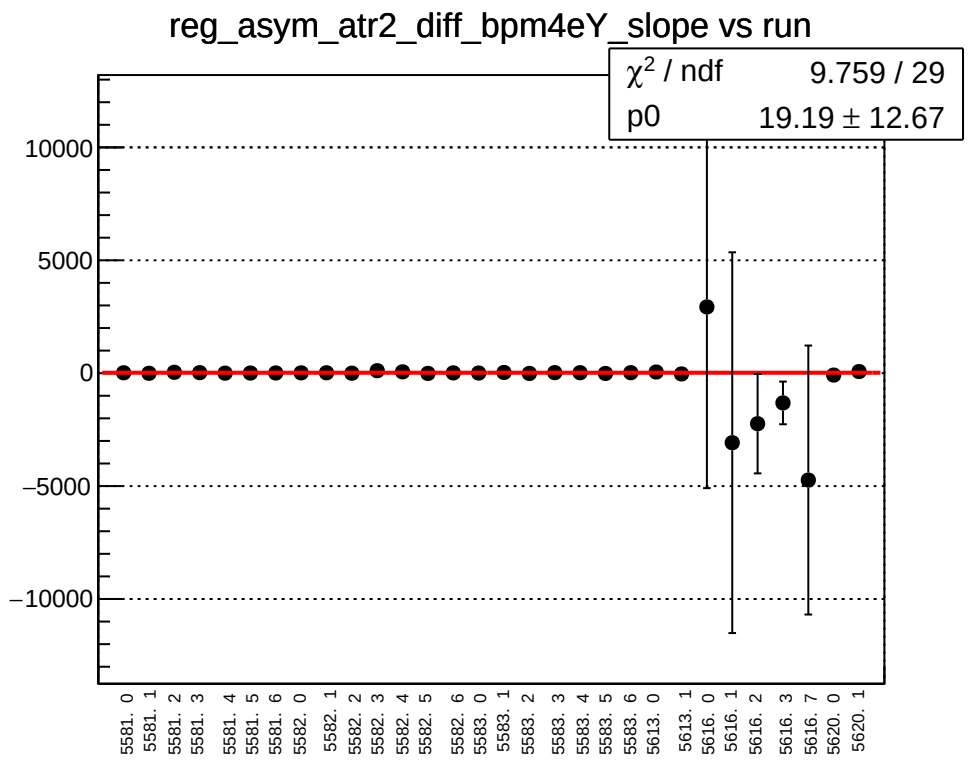

pull1D
Entries 30
Mean 0.1724
Std Dev 1.14
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

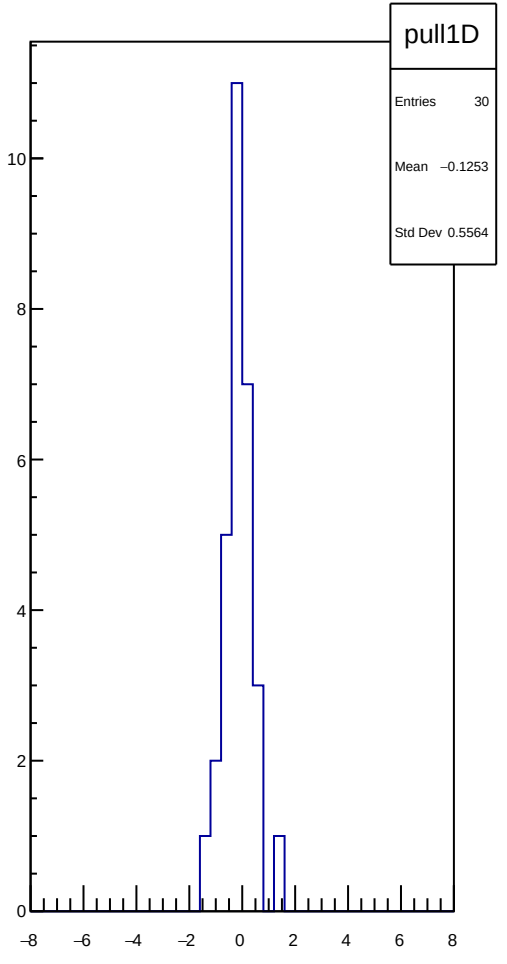

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 9.779 / 29
p0 51.81 ± 9.662
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean 23.38
Std Dev 7.818
1.5
1
0.5
0
−0.5
−1

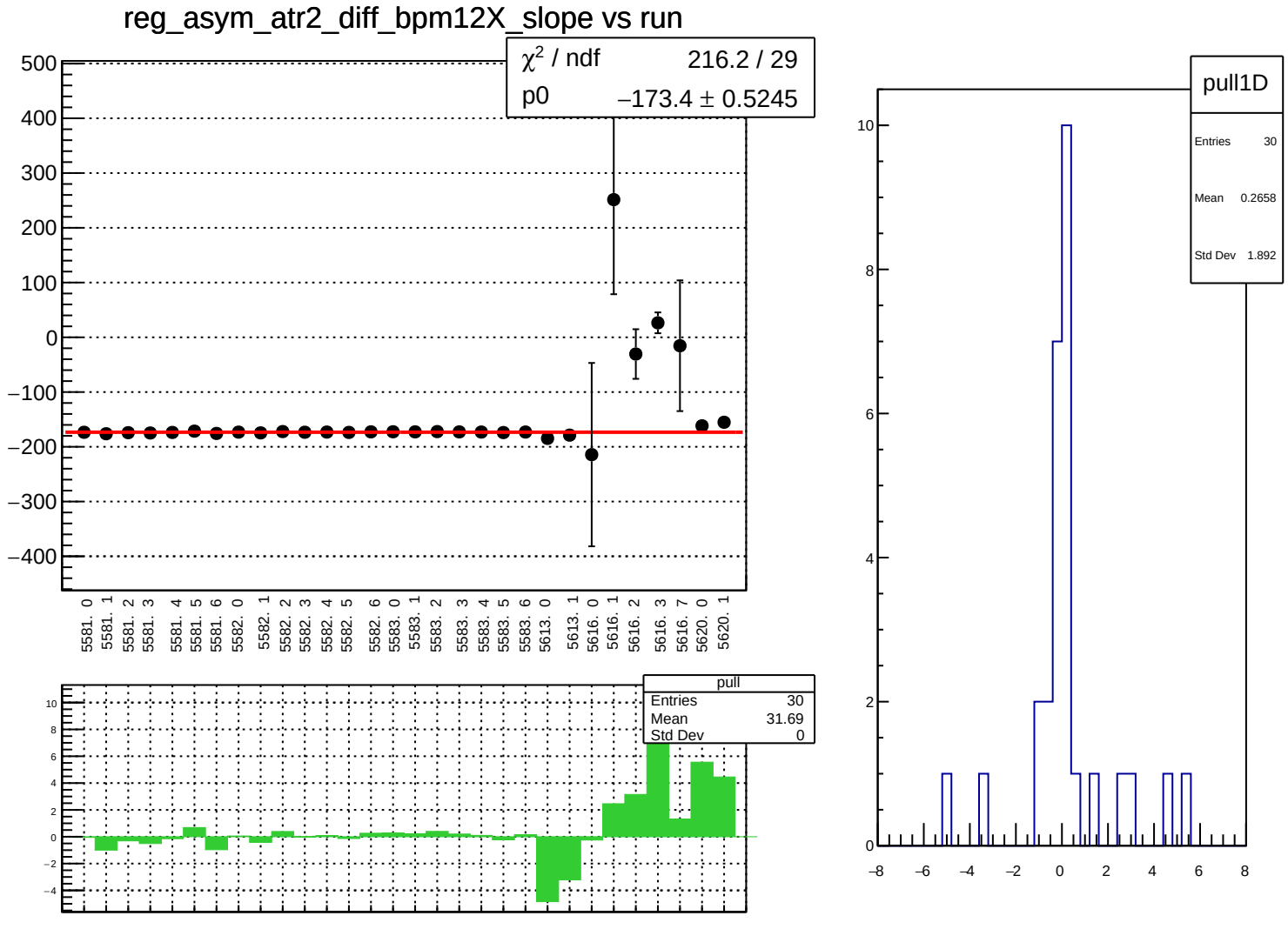

pull1D
Entries 30
Mean 0.1042
Std Dev 0.5613
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

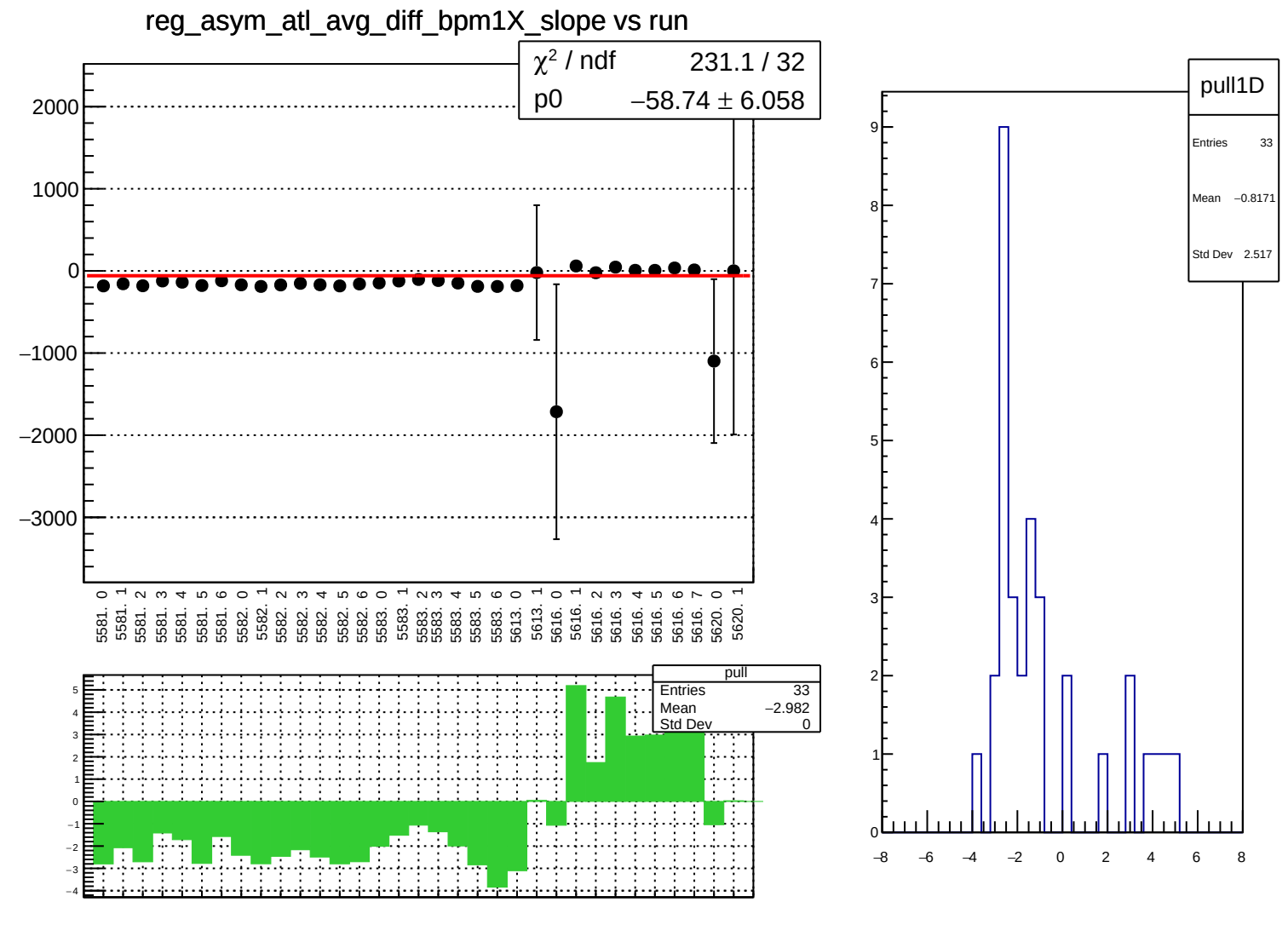

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 43.19 / 29
p0 350.3 ± 9.48
15000
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean −27.97
Std Dev 0
5
4
3
2
1
0
−1
−2

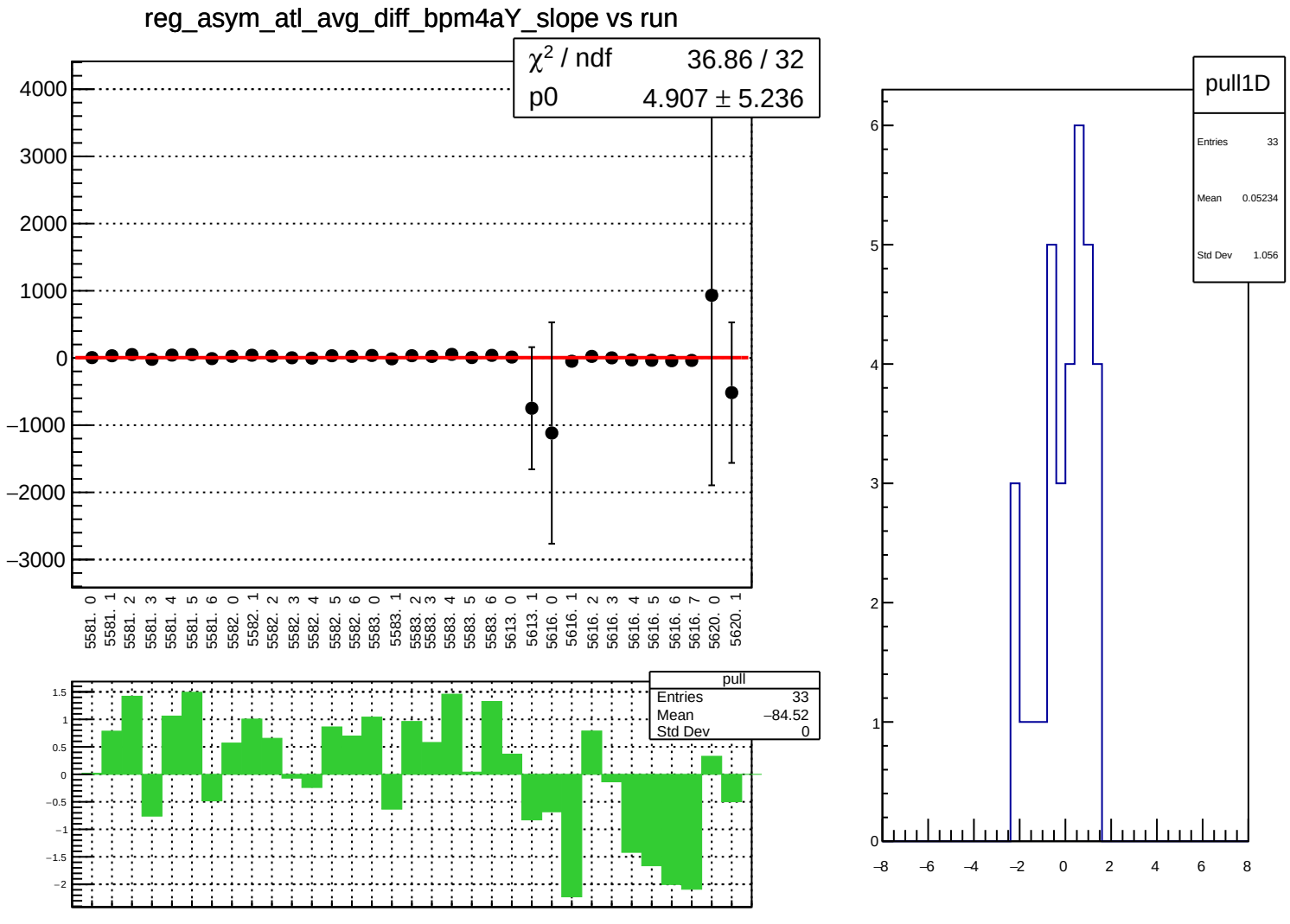

pull1D
Entries 30
Mean −0.1135
Std Dev 1.195
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

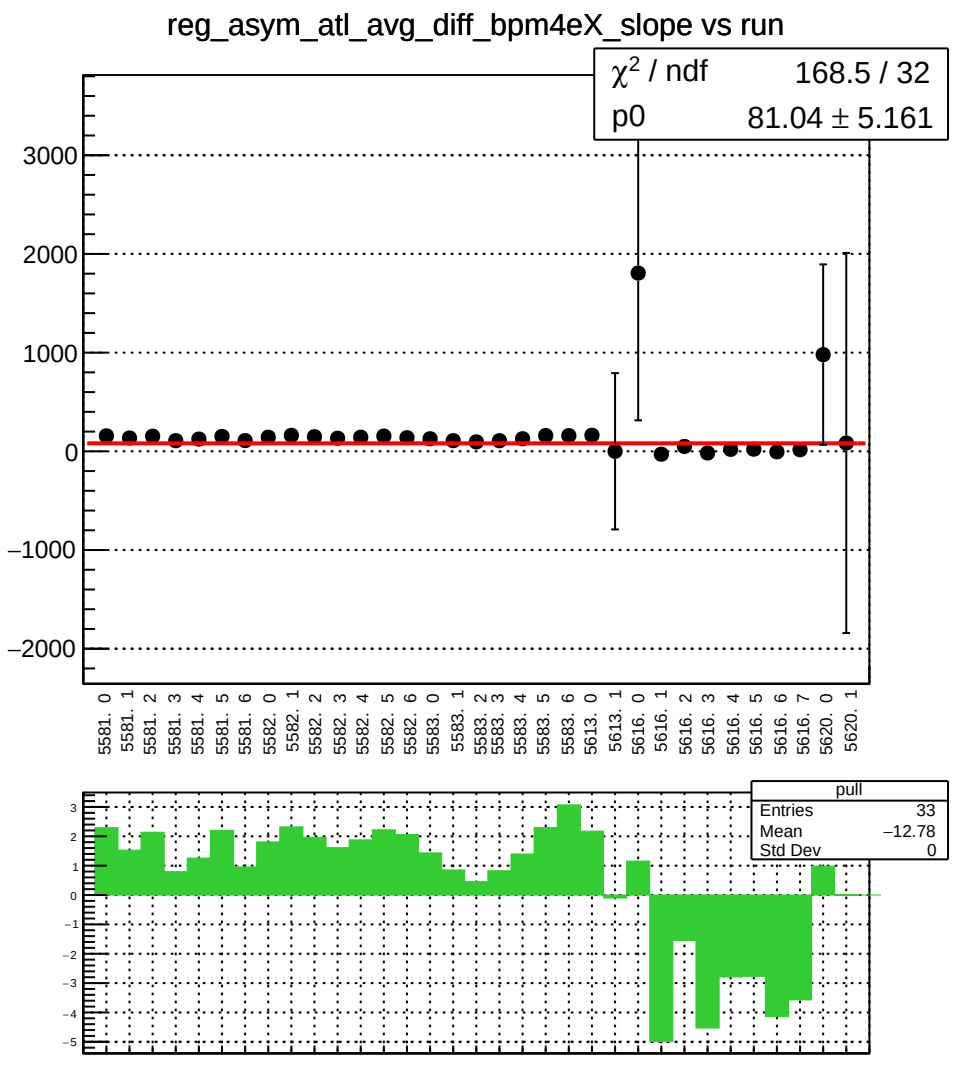

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 9.759 / 29
p0 19.19 ± 12.67
10000
5000
0
−5000
−10000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean 26.46
Std Dev 3.449
1.5
1
0.5
0
−0.5
−1
−1.5

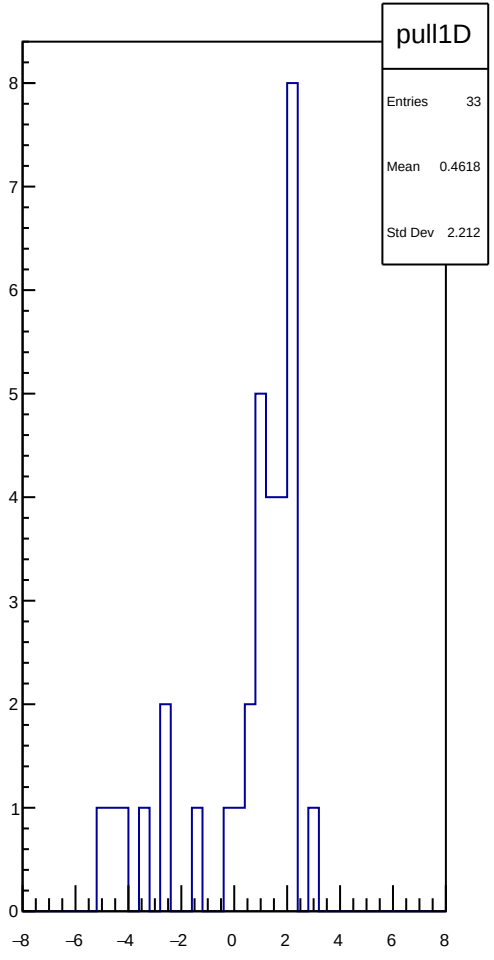

pull1D
Entries 30
Mean −0.1253
Std Dev 0.5564
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

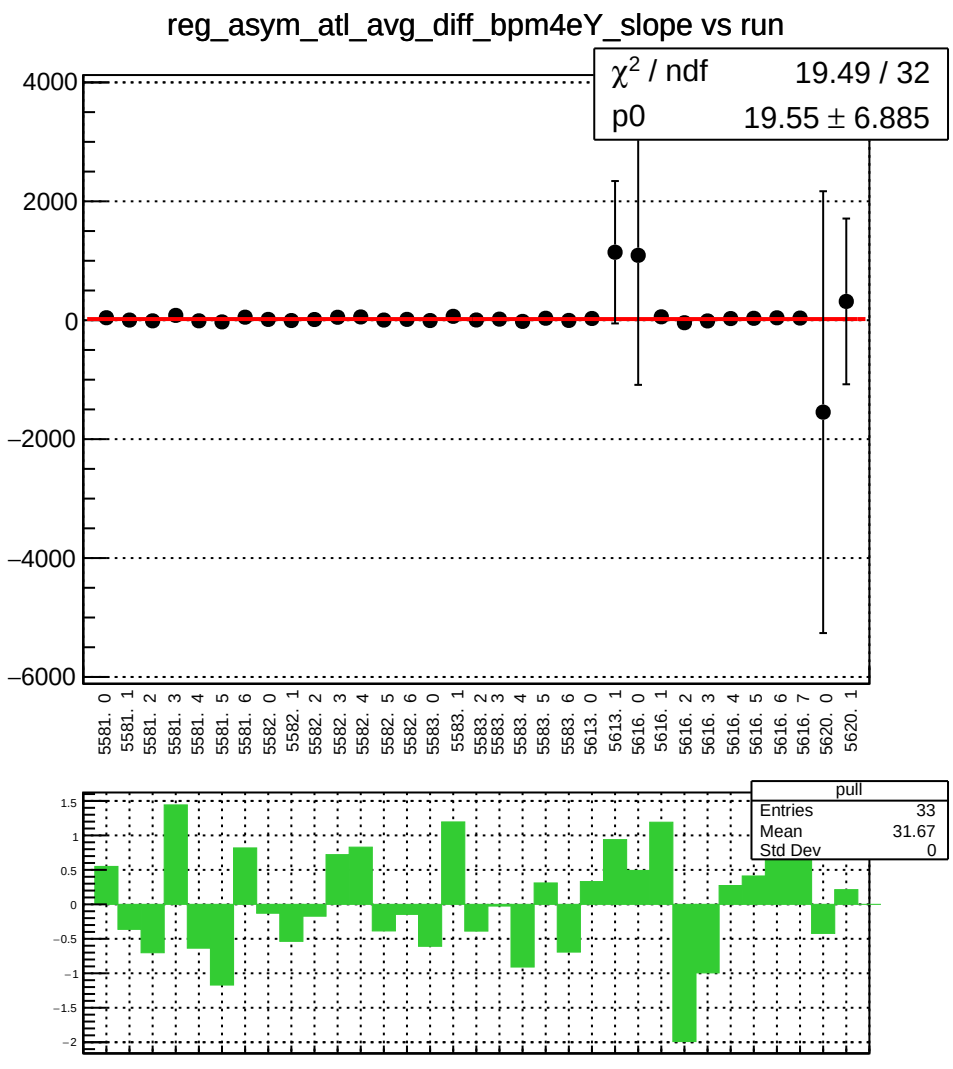

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 216.2 / 29
p0 −173.4 ± 0.5245
500
400
300
200
100
0
−100
−200
−300
−400
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean 31.69
Std Dev 0
10
8
6
4
2
0
−2
−4
pull1D
Entries 30
Mean 0.2658
Std Dev 1.892
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

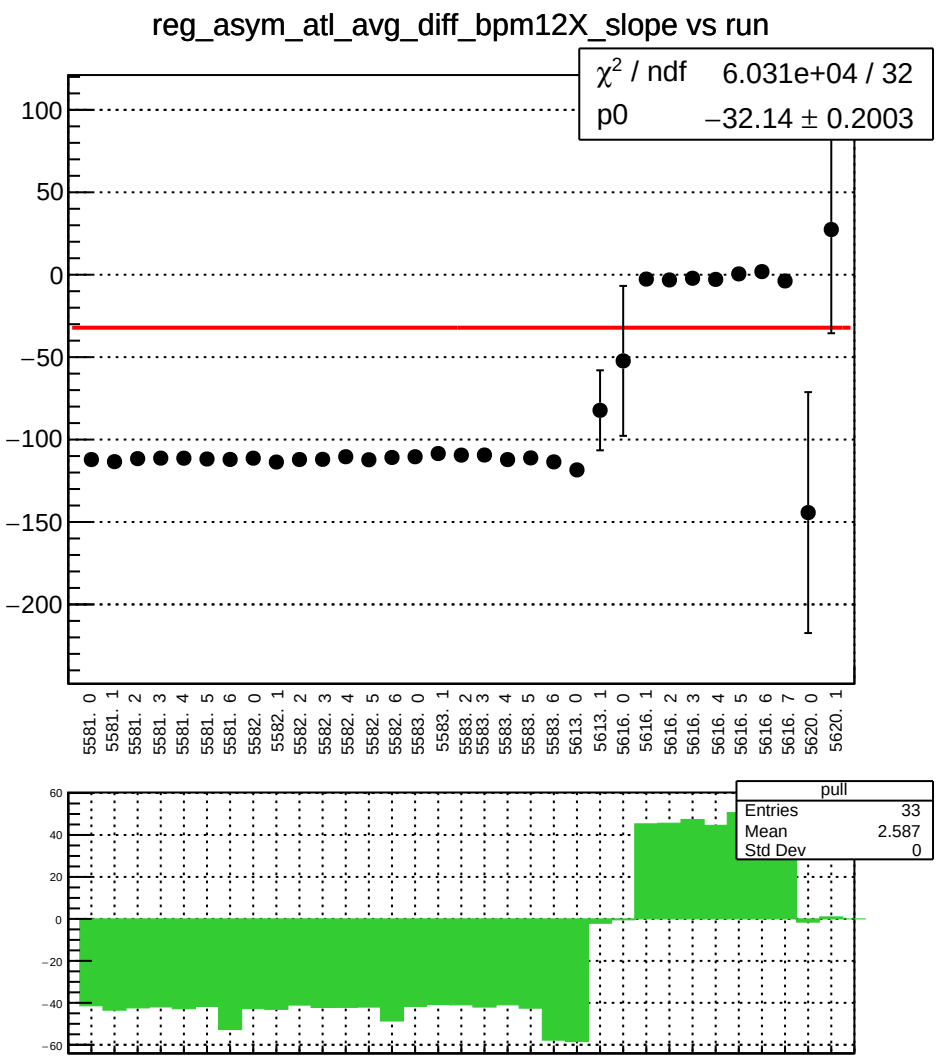

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 231.1 / 32
p0 −58.74 ± 6.058
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2.982
Std Dev 0
pull1D
Entries 33
Mean −0.8171
Std Dev 2.517

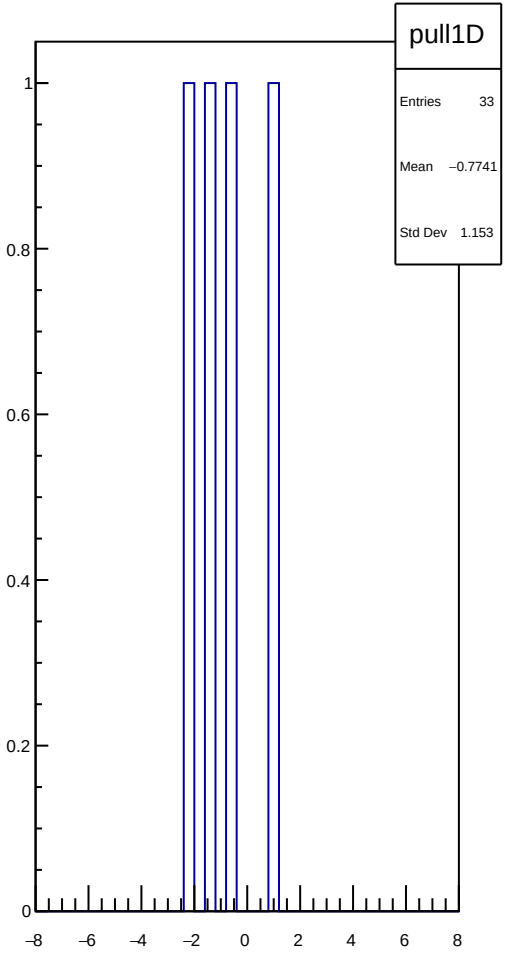

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.86 / 32
p0 4.907 ± 5.236
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −84.52
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.05234
Std Dev 1.056
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

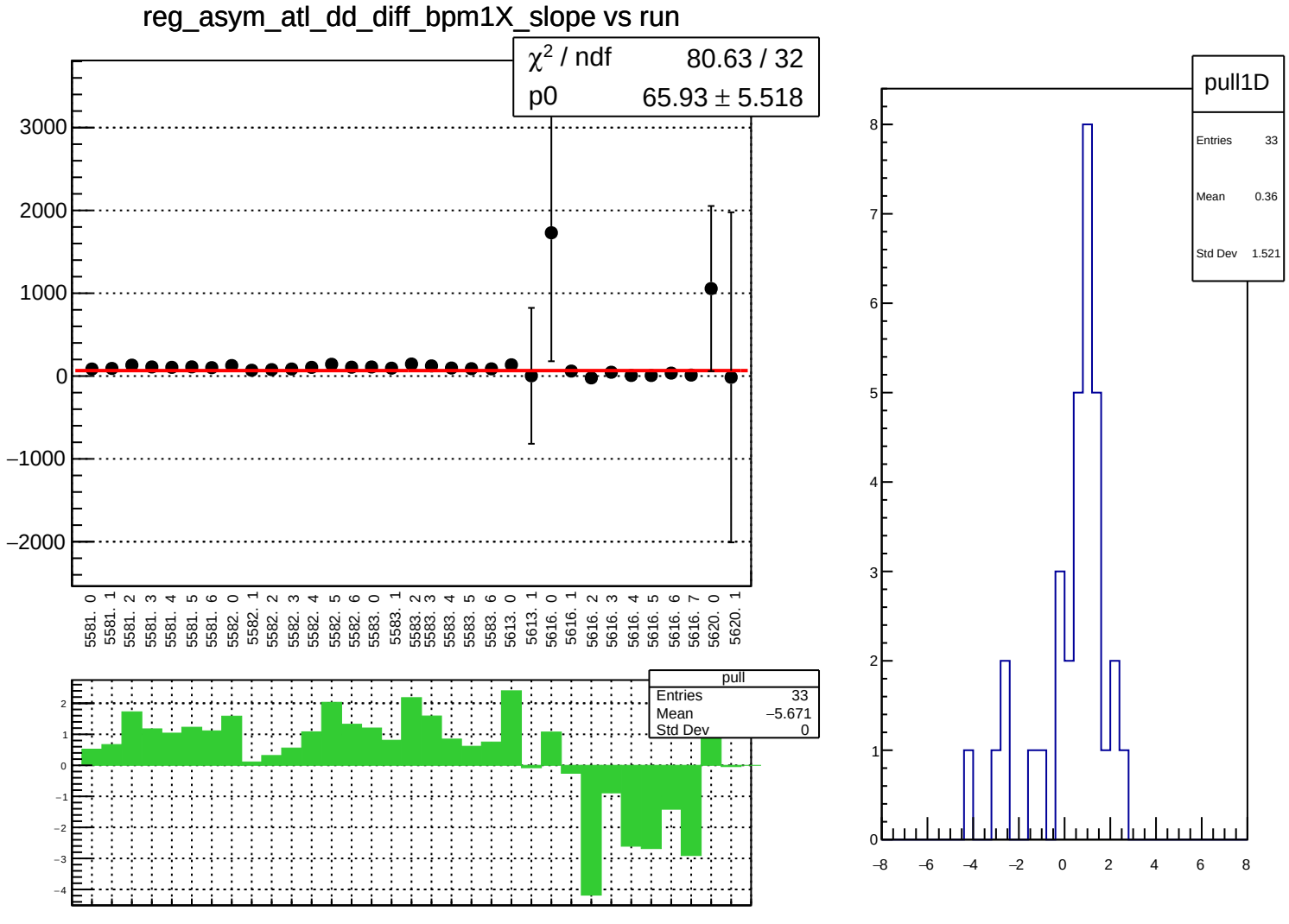

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 168.5 / 32
p0 81.04 ± 5.161
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −12.78
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5

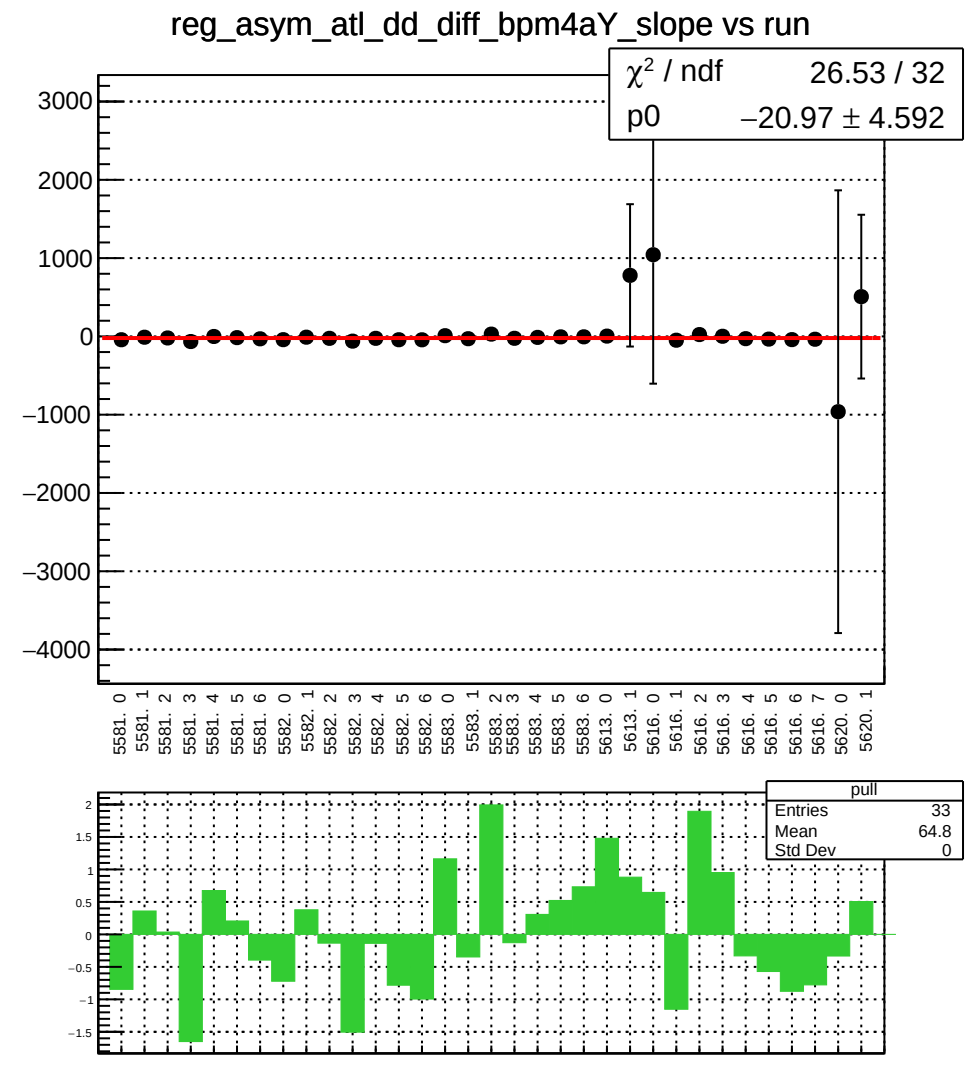

pull1D
Entries 33
Mean 0.4618
Std Dev 2.212
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

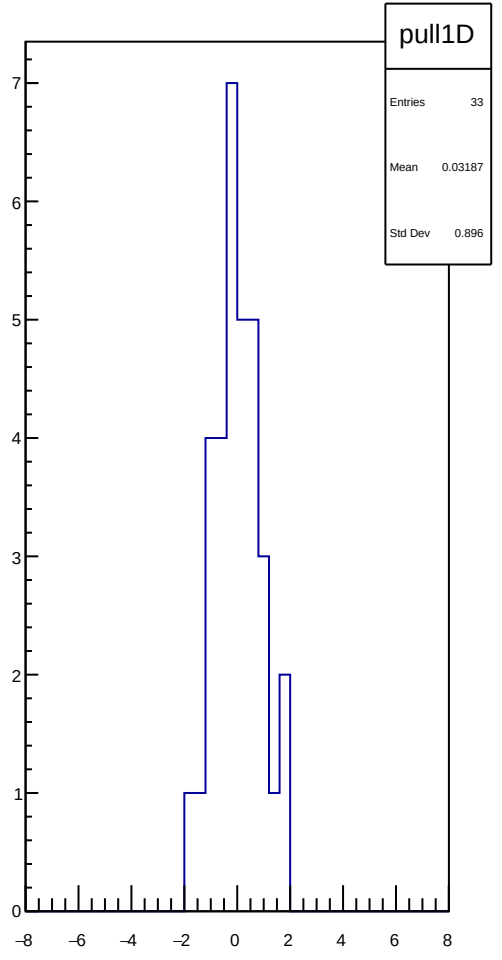

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.49 / 32
p0 19.55 ± 6.885
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 31.67
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.0243
Std Dev 0.7682
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

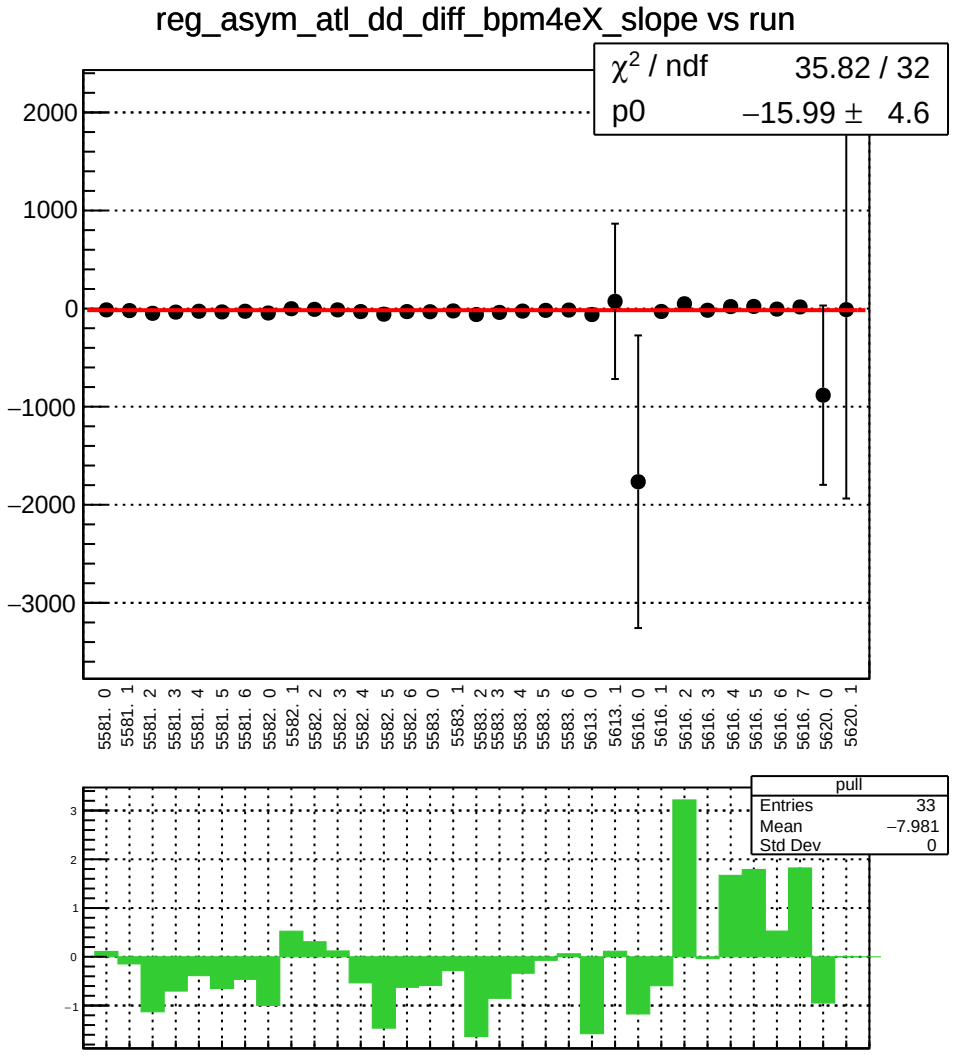

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 6.031e+04 / 32
p0 −32.14 ± 0.2003
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2.587
Std Dev 0
60
40
20
0
−20
−40
−60

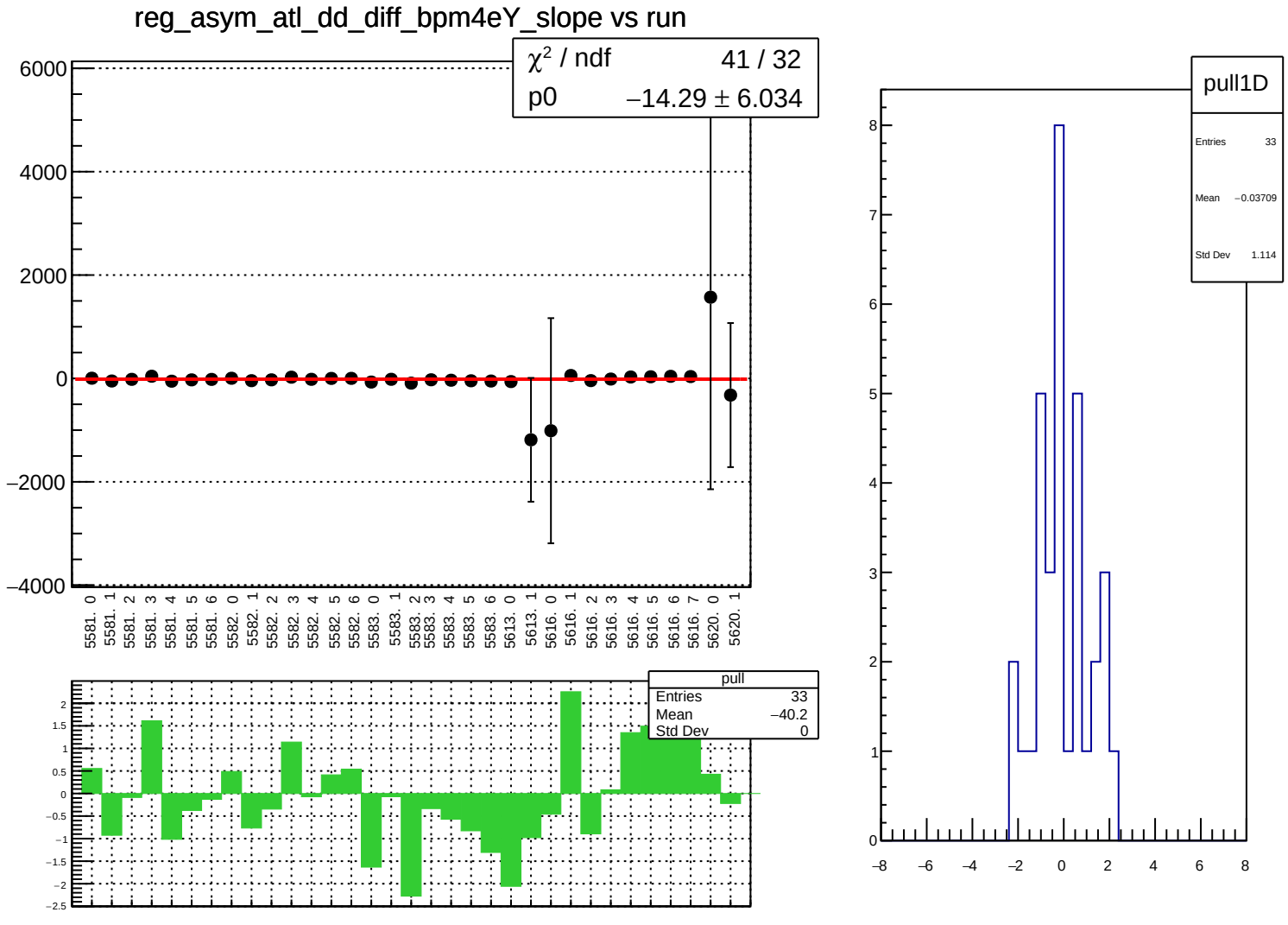

pull1D
Entries 33
Mean −0.7741
Std Dev 1.153
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

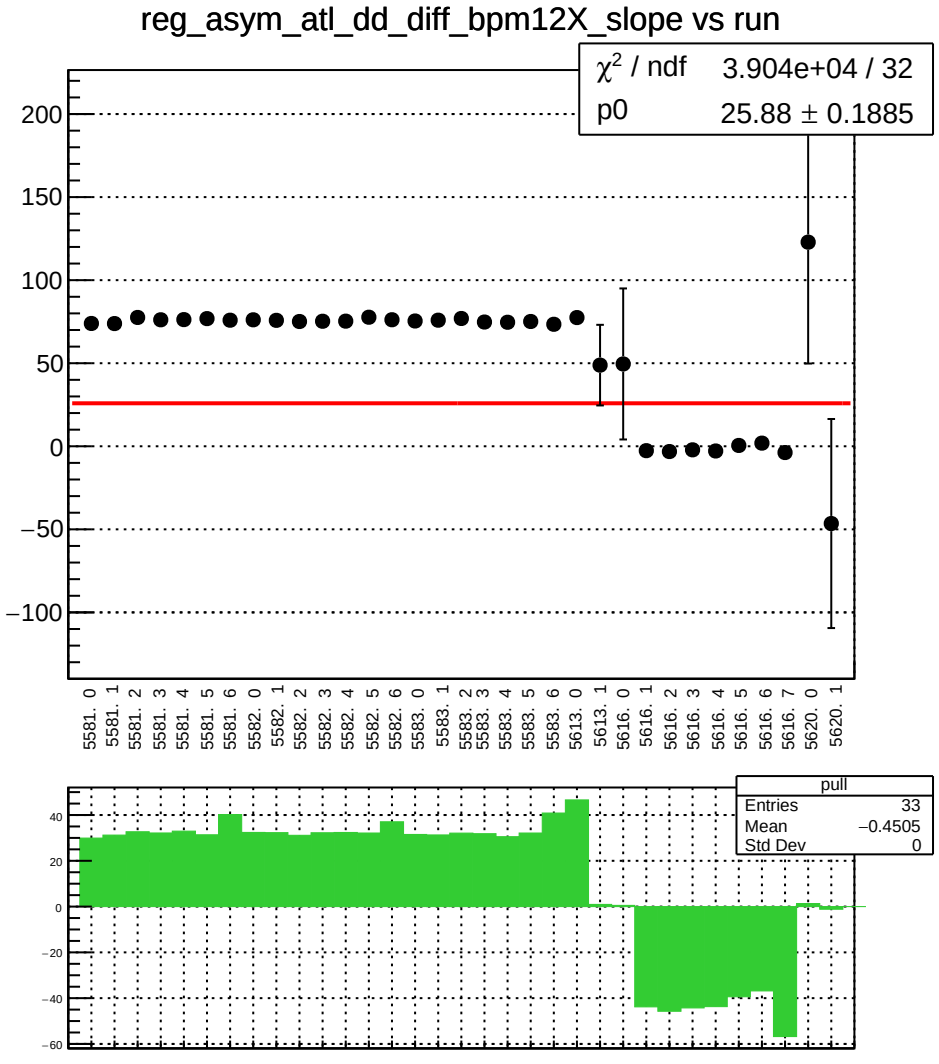

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 80.63 / 32
p0 65.93 ± 5.518
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −5.671
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 33
Mean 0.36
Std Dev 1.521
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

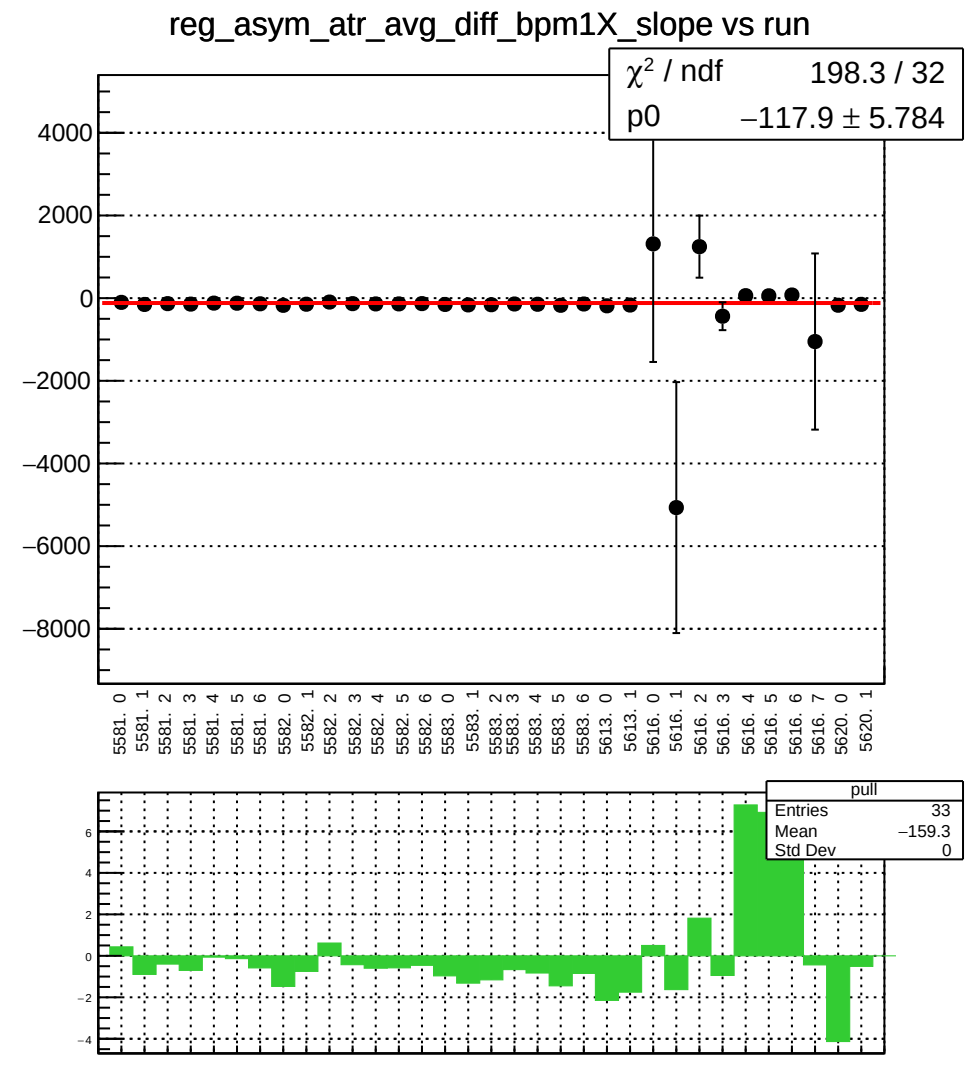

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.53 / 32
p0 −20.97 ± 4.592
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 64.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

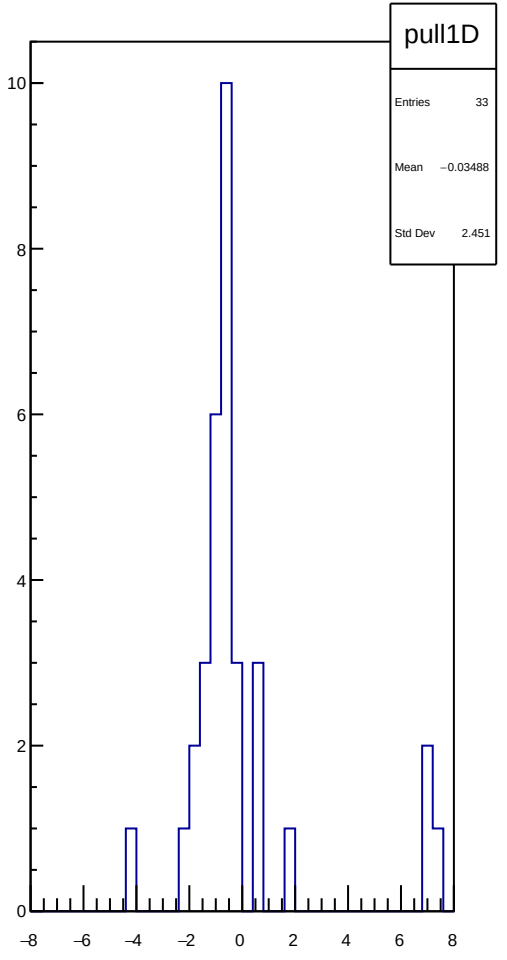

pull1D
Entries 33
Mean 0.03187
Std Dev 0.896
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

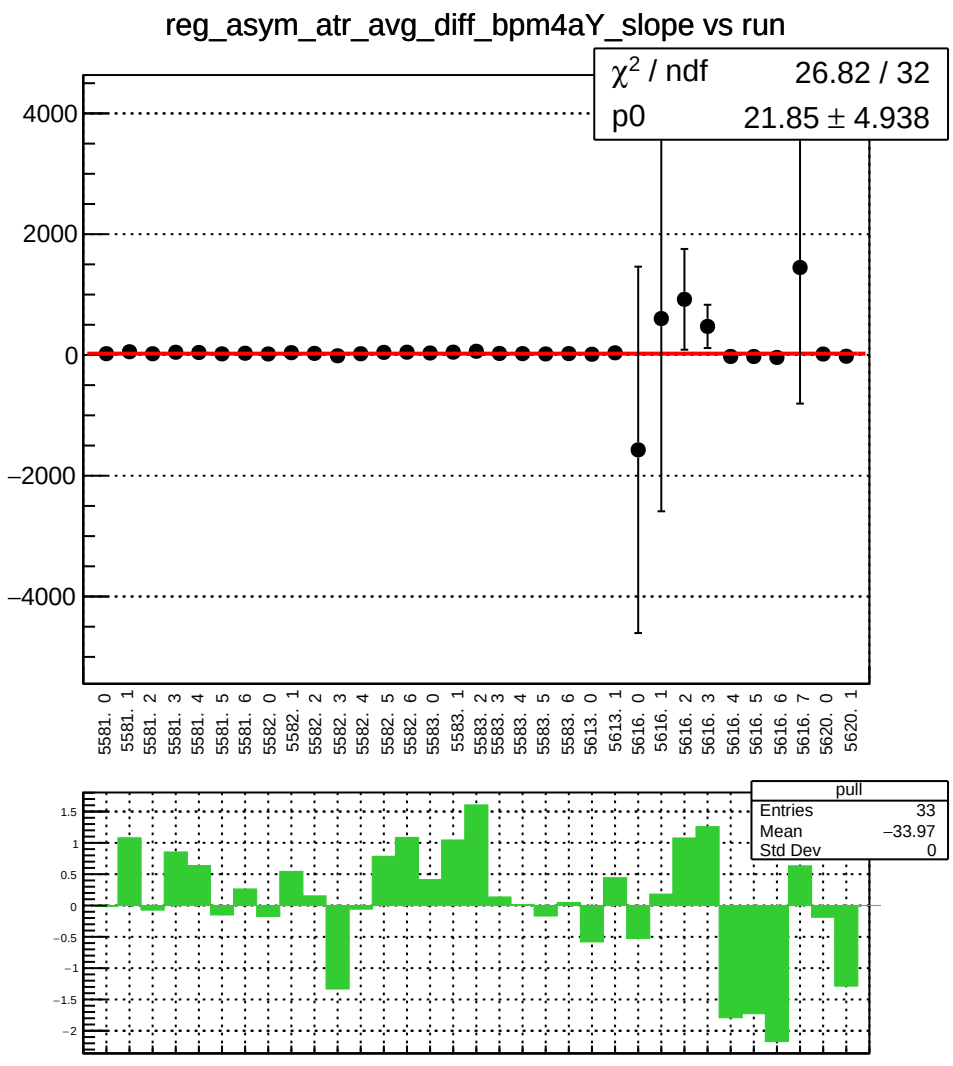

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.82 / 32
p0 −15.99 ± 4.6
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −7.981
Std Dev 0
3
2
1
0
−1
pull1D
Entries 33
Mean −0.1492
Std Dev 1.031
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

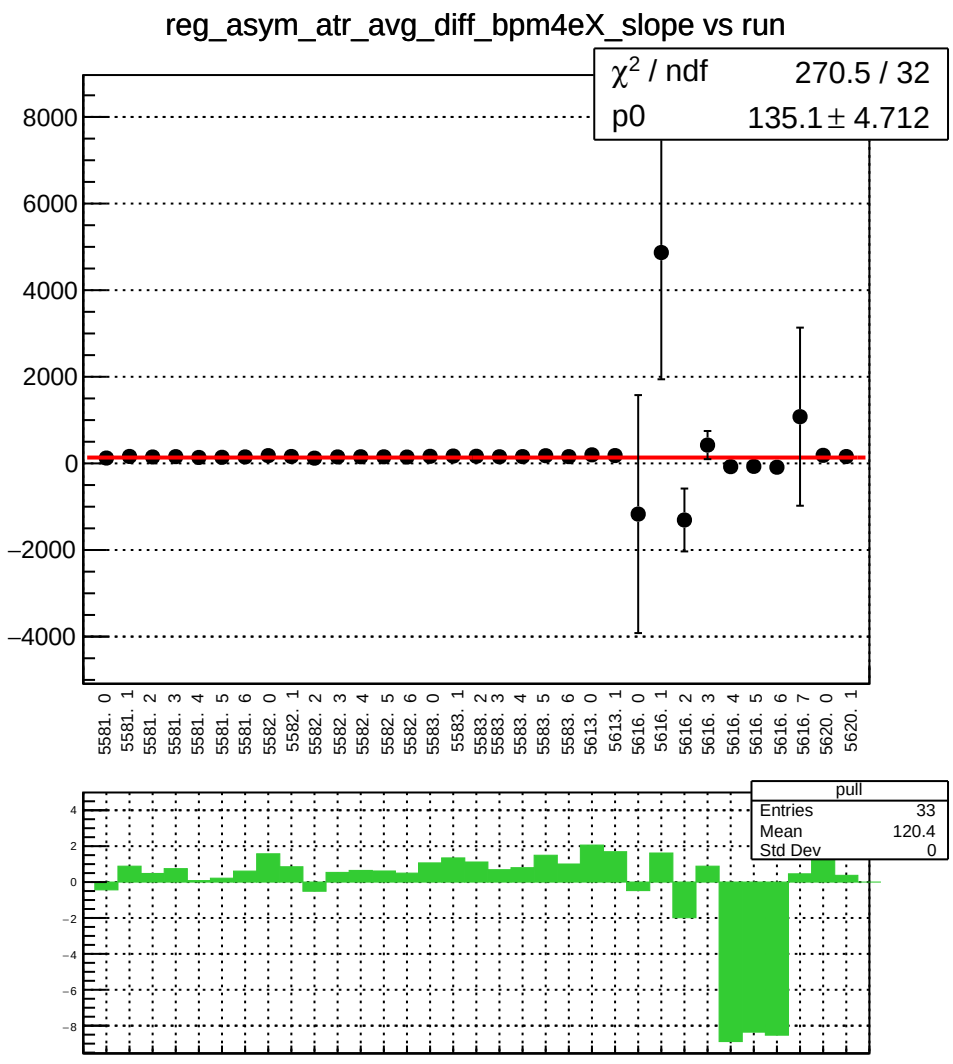

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 41 / 32
p0 −14.29 ± 6.034
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −40.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.03709
Std Dev 1.114
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

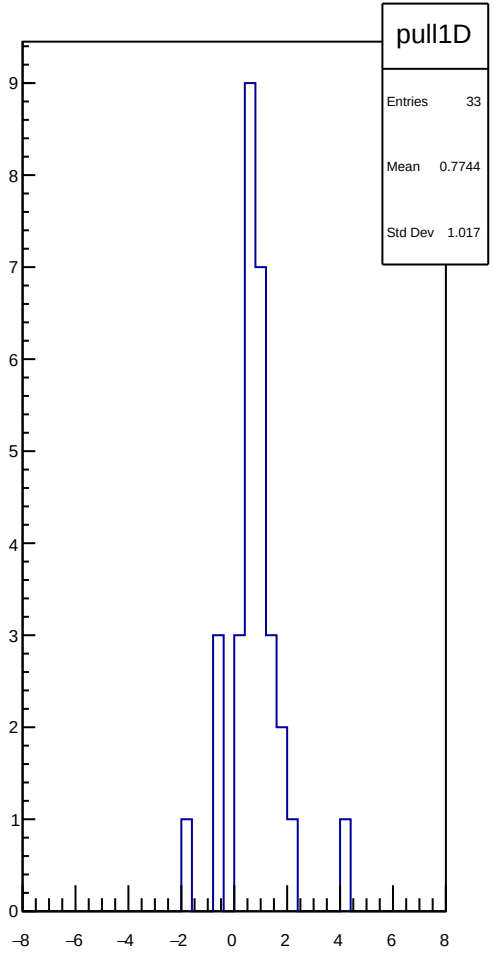

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 3.904e+04 / 32
p0 25.88 ± 0.1885
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.4505
Std Dev 0
40
20
0
−20
−40
−60
pull1D
Entries 33
Mean 0.4111
Std Dev 0.9455
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

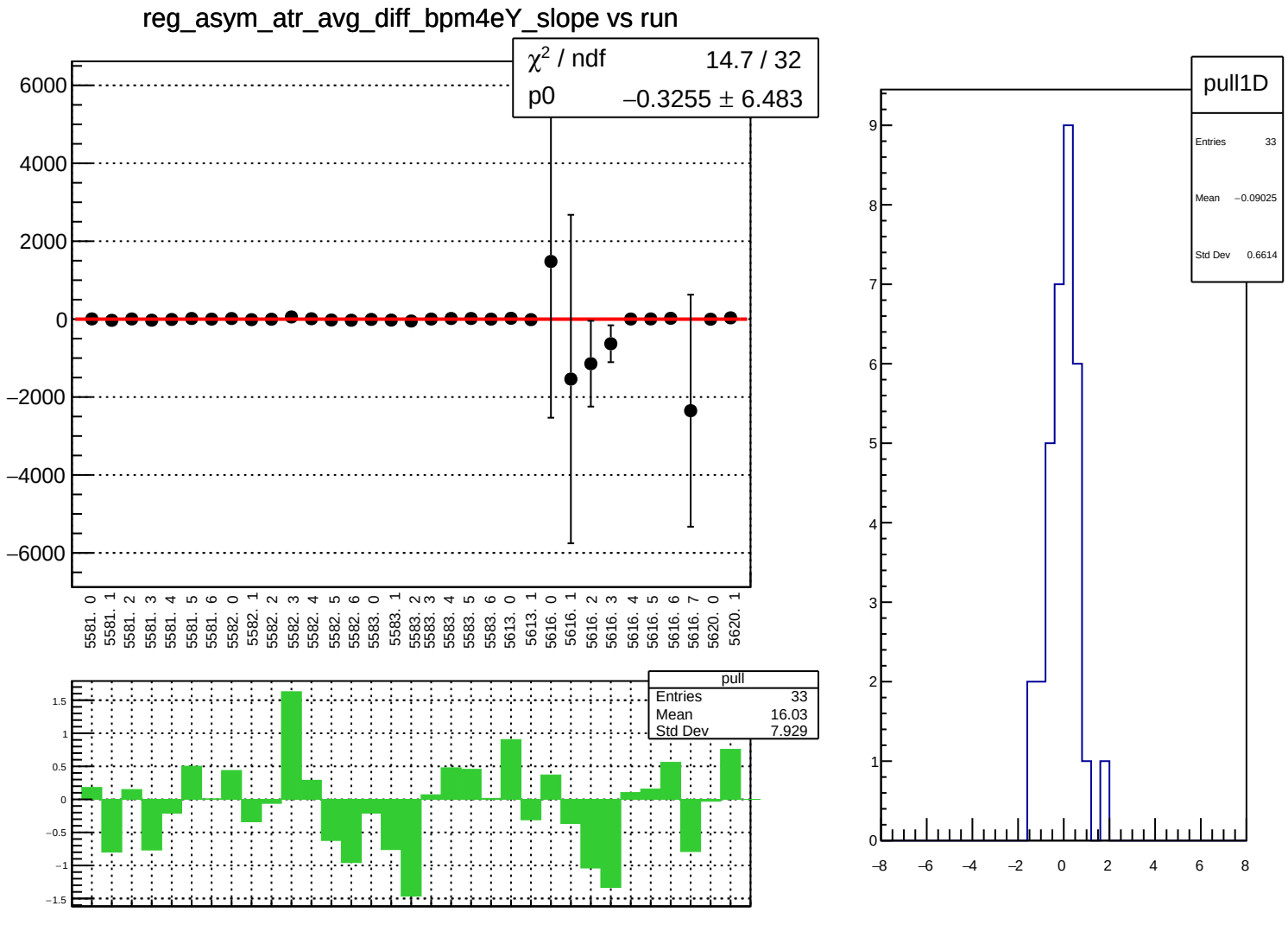

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 198.3 / 32
p0 −117.9 ± 5.784
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −159.3
Std Dev 0
6
4
2
0
−2
−4

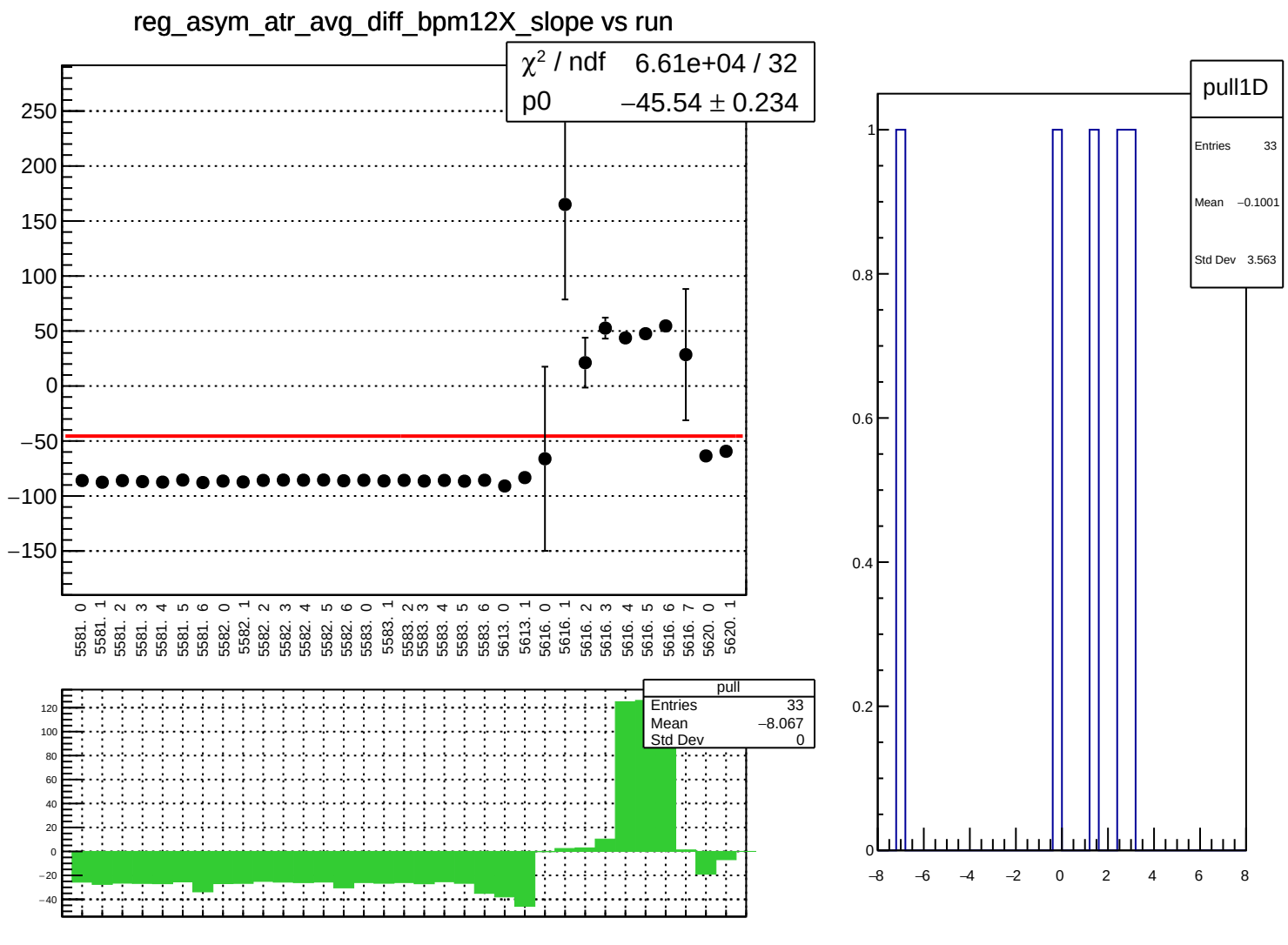

pull1D
Entries 33
Mean −0.03488
Std Dev 2.451
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

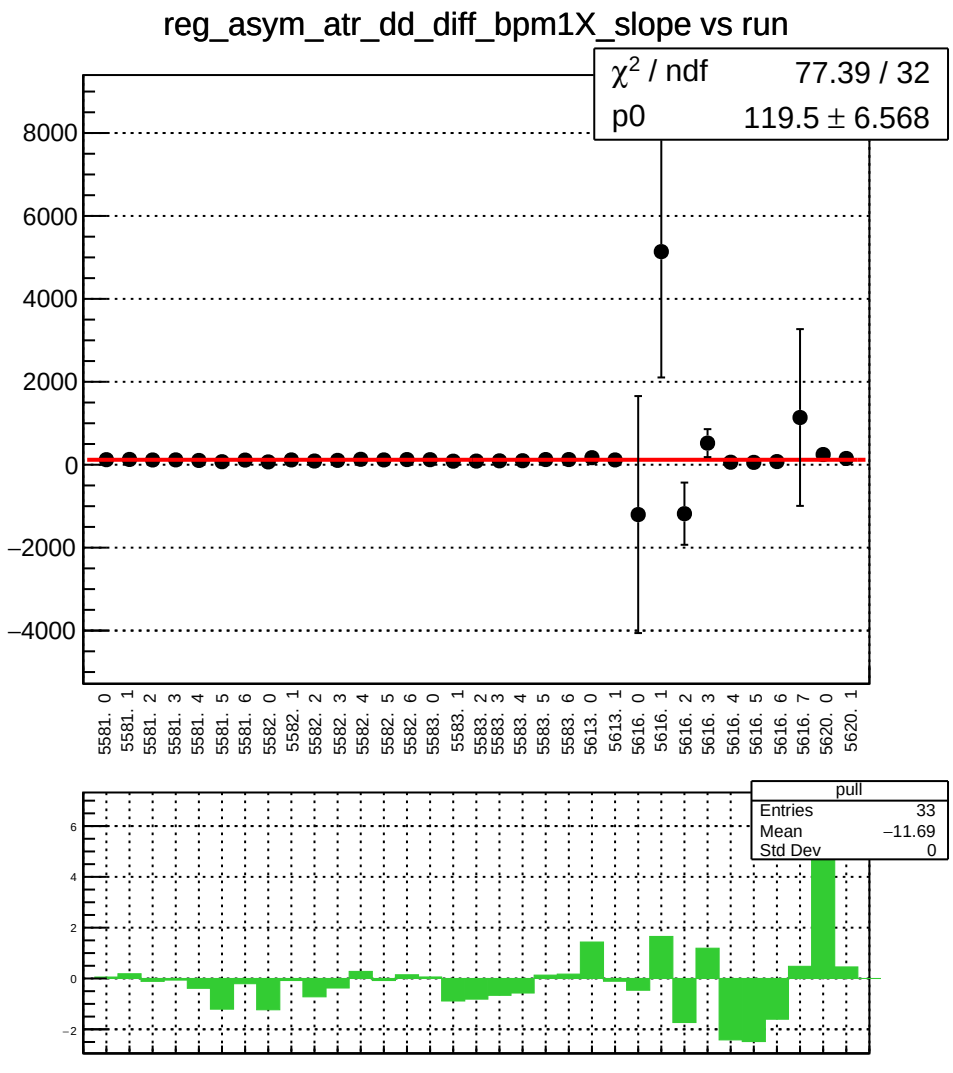

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.82 / 32
p0 21.85 ± 4.938
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −33.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.06128
Std Dev 0.8994
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

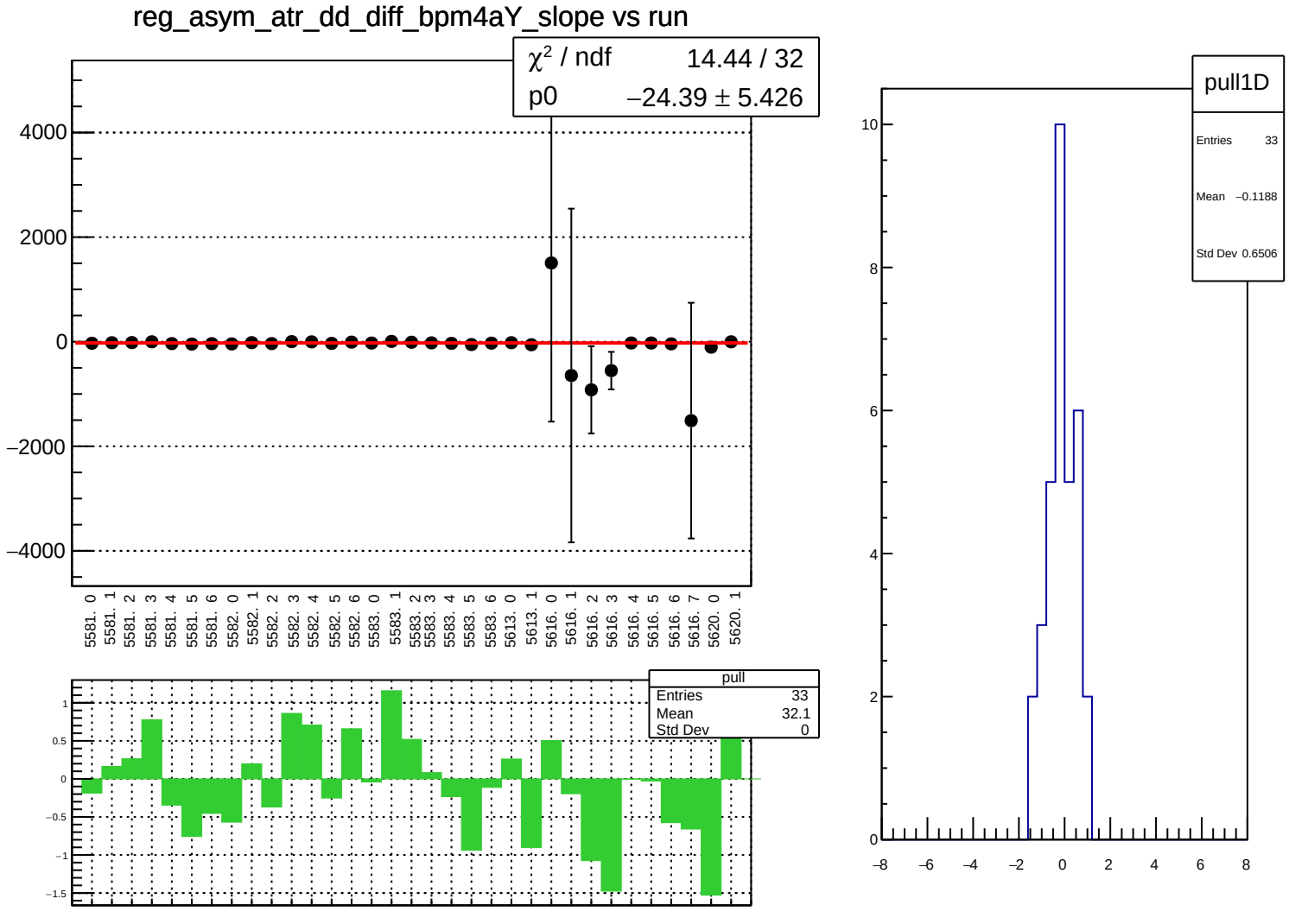

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 270.5 / 32
p0 135.1 ± 4.712
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 120.4
Std Dev 0
4
2
0
−2
−4
−6
−8

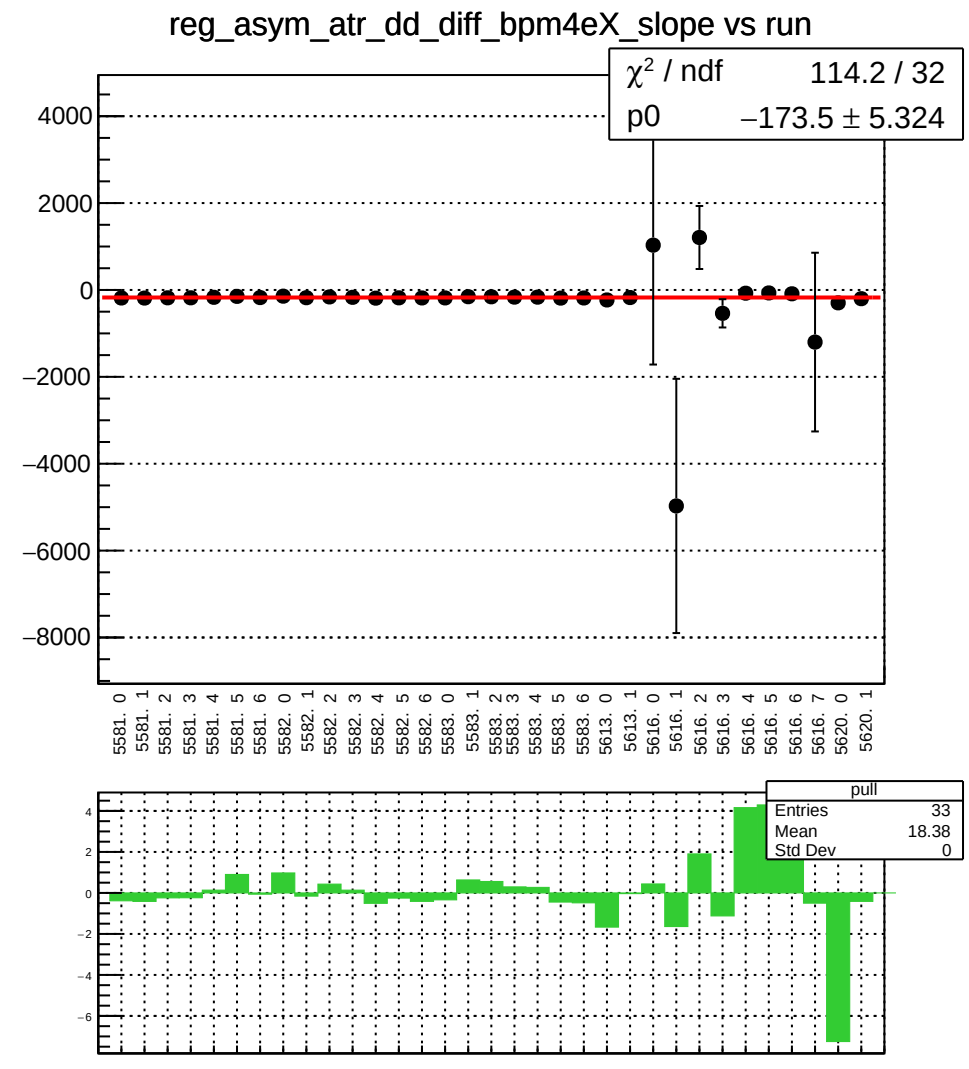

pull1D
Entries 33
Mean 0.7744
Std Dev 1.017
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

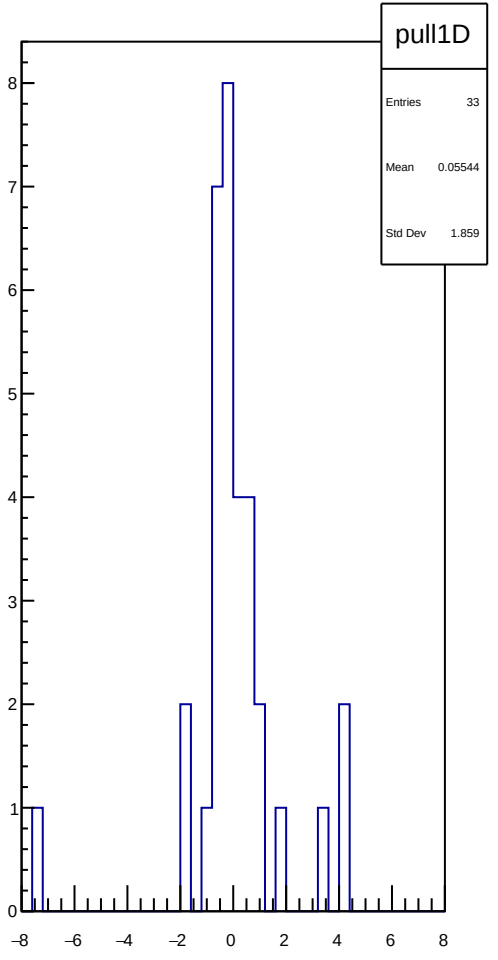

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.7 / 32
p0 −0.3255 ± 6.483
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.03
Std Dev 7.929
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.09025
Std Dev 0.6614
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

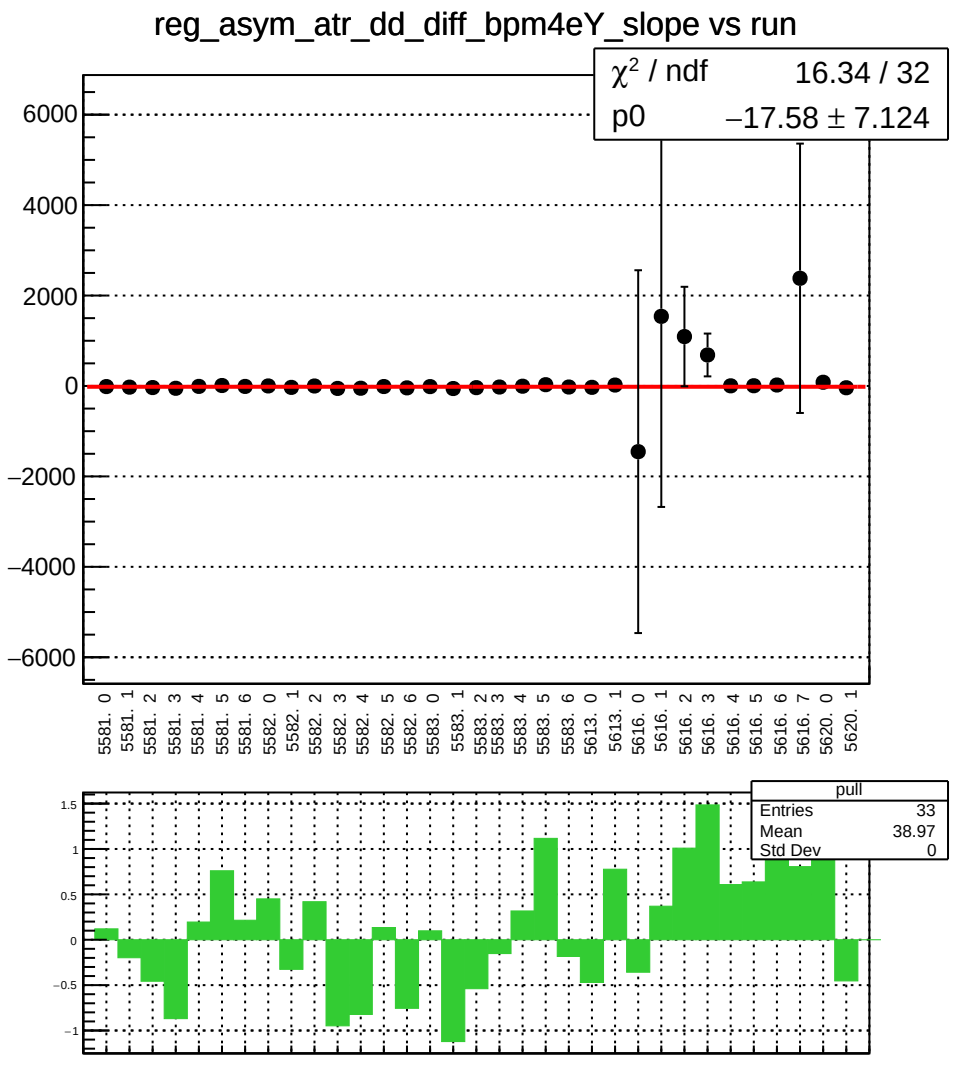

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 6.61e+04 / 32
p0 −45.54 ± 0.234
250
200
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −8.067
Std Dev 0
120
100
80
60
40
20
0
−20
−40
pull1D
Entries 33
Mean −0.1001
Std Dev 3.563
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

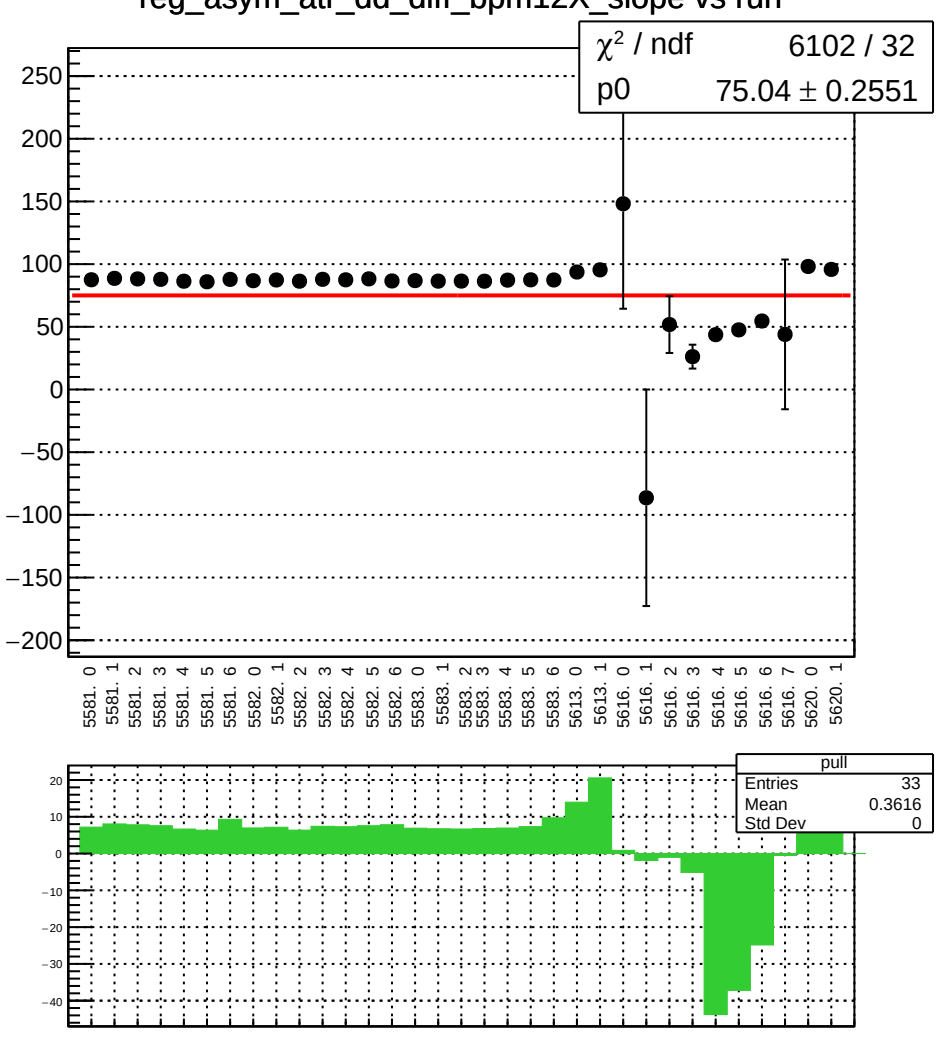

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 77.39 / 32
p0 119.5 ± 6.568
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −11.69
Std Dev 0
6
4
2
0
−2
pull1D
Entries 33
Mean −0.09491
Std Dev 1.528
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

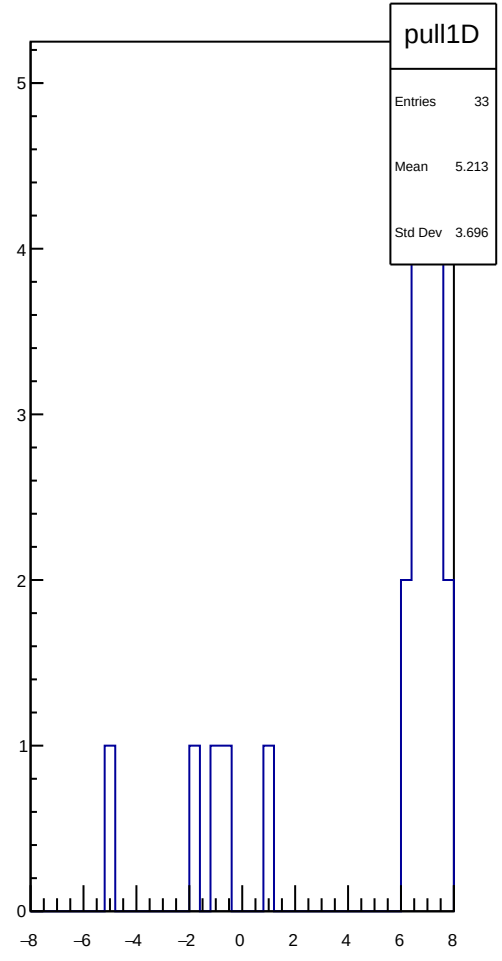

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.44 / 32
p0 −24.39 ± 5.426
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 32.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1188
Std Dev 0.6506
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

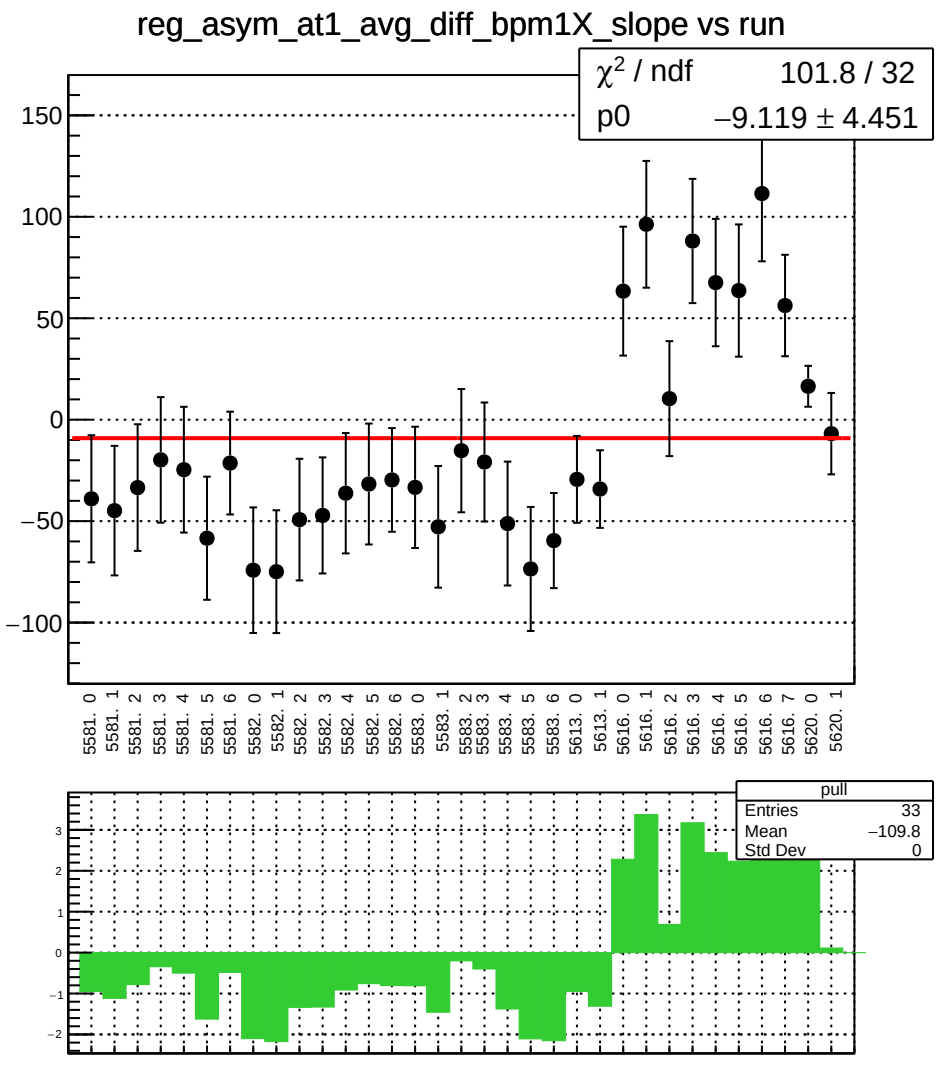

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 114.2 / 32
p0 −173.5 ± 5.324
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 18.38
Std Dev 0
4
2
0
−2
−4
−6

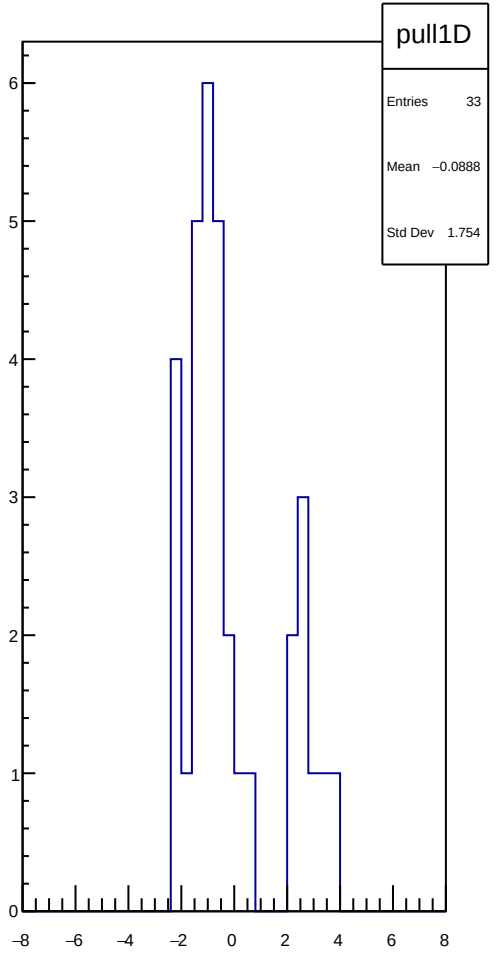

pull1D
Entries 33
Mean 0.05544
Std Dev 1.859
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

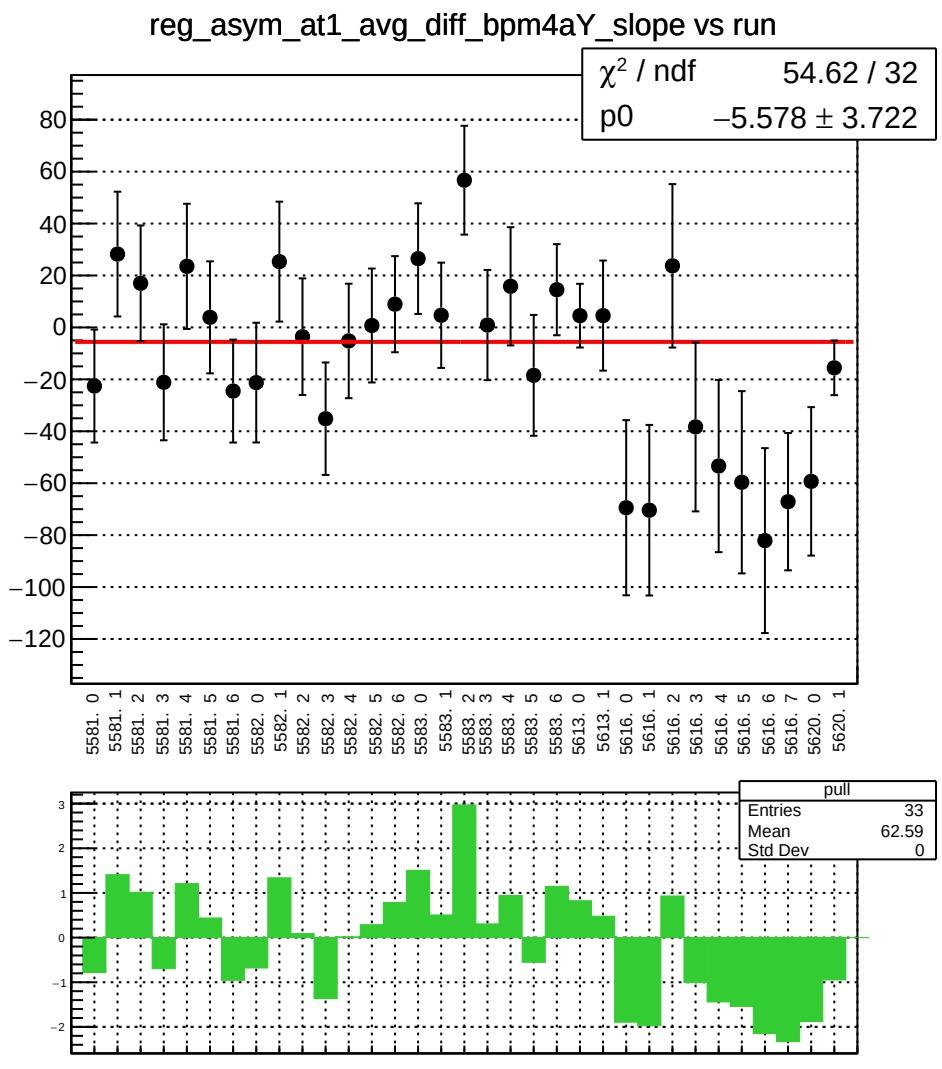

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.34 / 32
p0 −17.58 ± 7.124
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.1308
Std Dev 0.6915
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

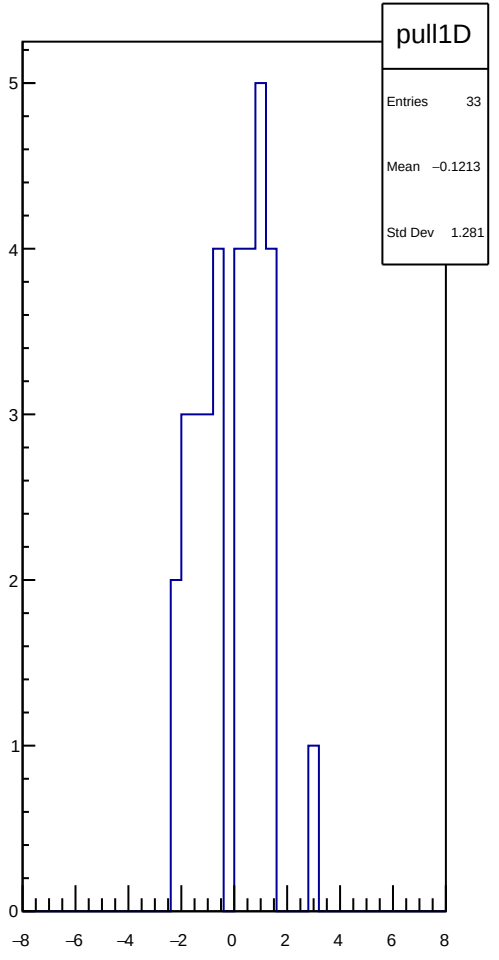

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 6102 / 32
p0 75.04 ± 0.2551
pull
Entries 33
Mean 0.3616
Std Dev 0

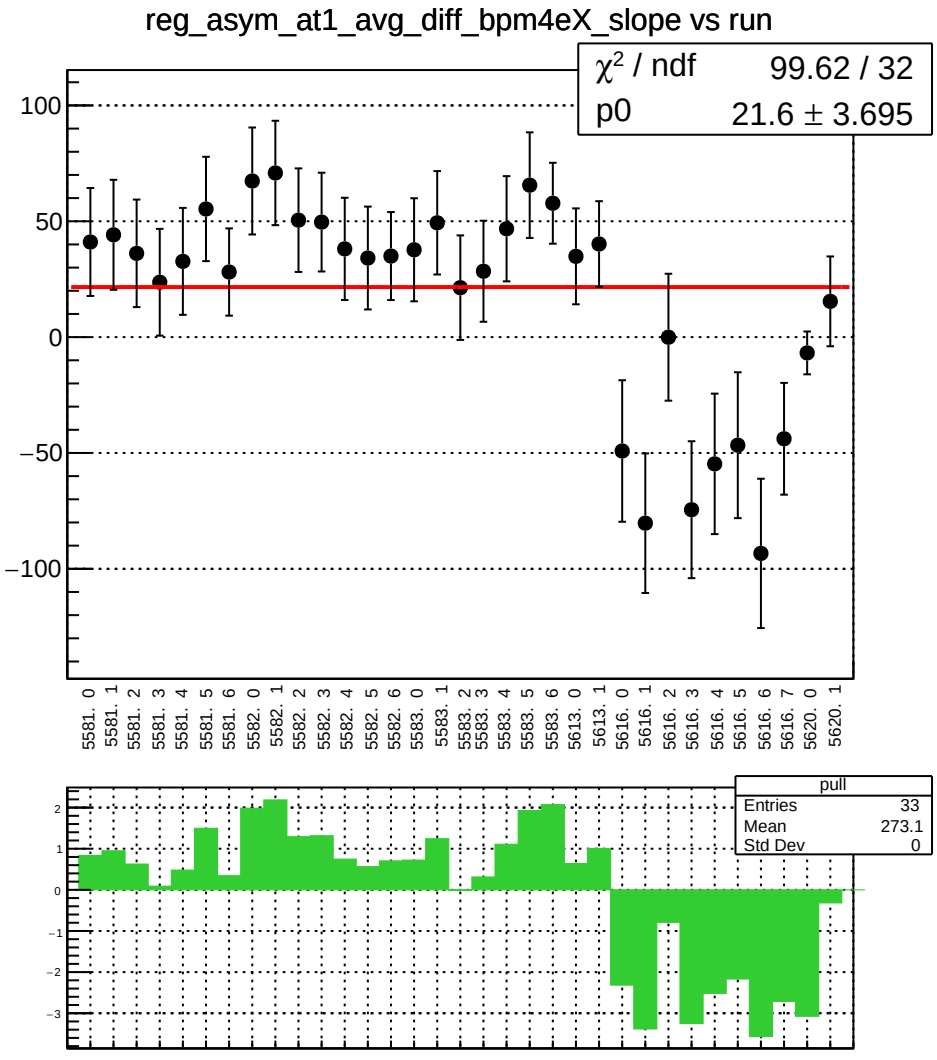

pull1D
Entries 33
Mean 5.213
Std Dev 3.696

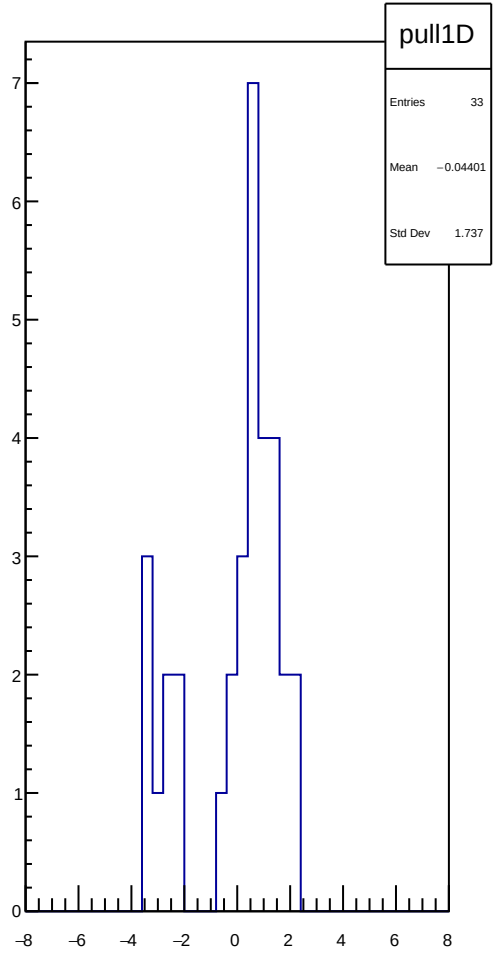

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 101.8 / 32
p0 −9.119 ± 4.451
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −109.8
Std Dev 0
3
2
1
0
−1
−2

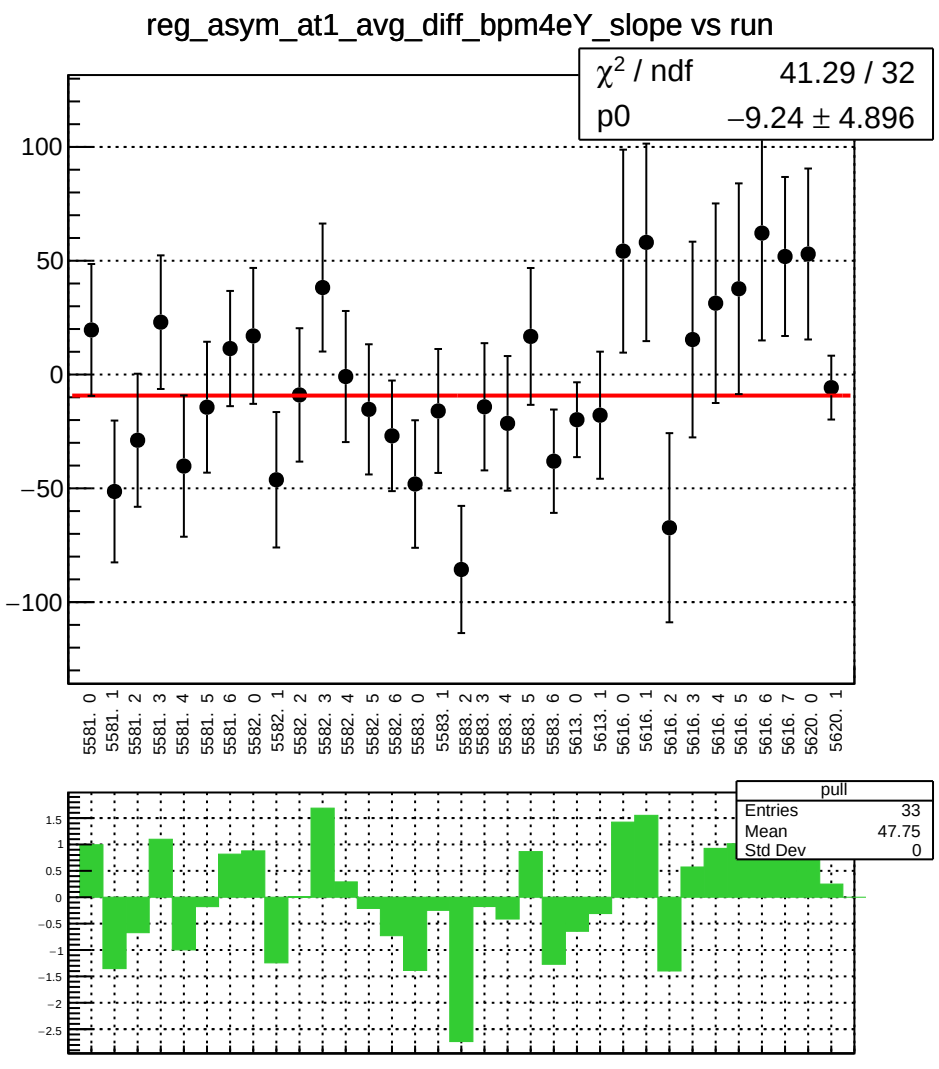

pull1D
Entries 33
Mean −0.0888
Std Dev 1.754
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

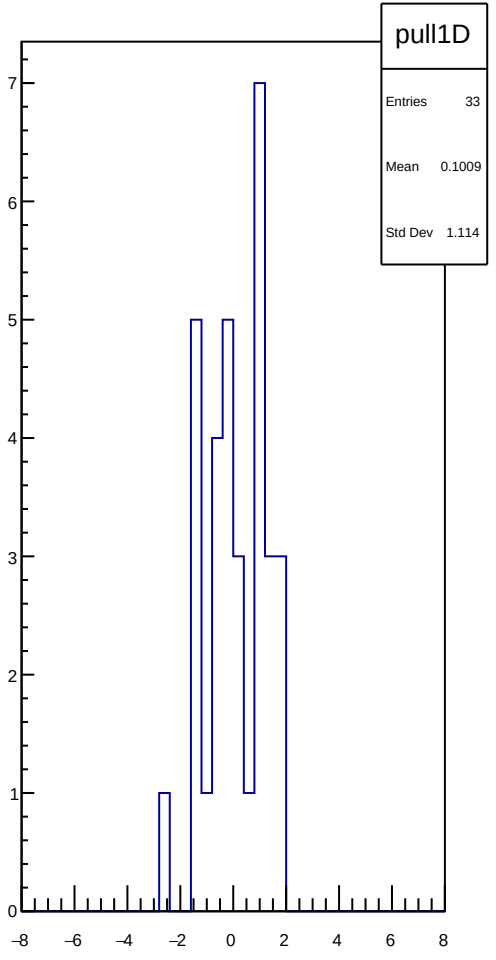

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 54.62 / 32
p0 −5.578 ± 3.722
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 62.59
Std Dev 0
3
2
1
0
−1
−2

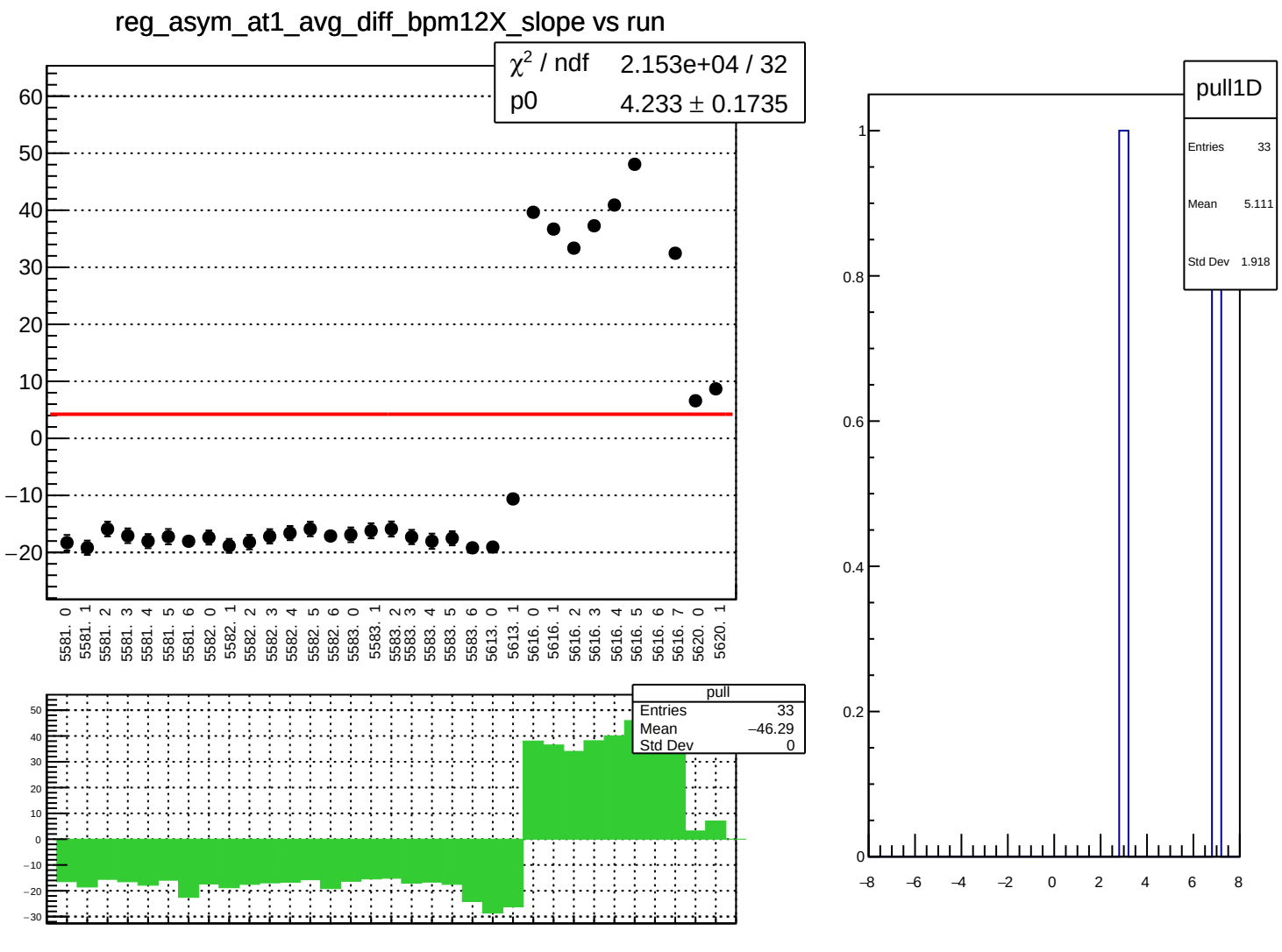

pull1D
Entries 33
Mean −0.1213
Std Dev 1.281
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

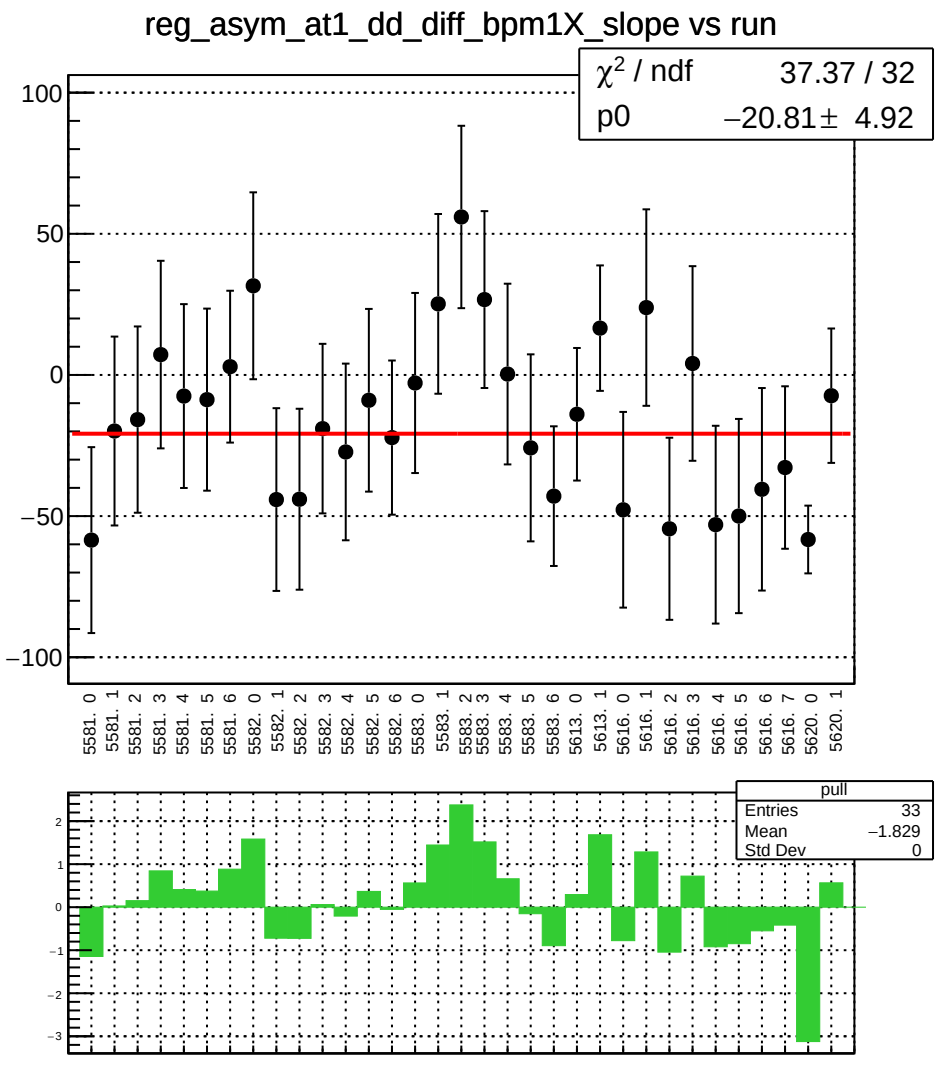

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 99.62 / 32
p0 21.6 ± 3.695
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 273.1
Std Dev 0
2
1
0
−1
−2
−3

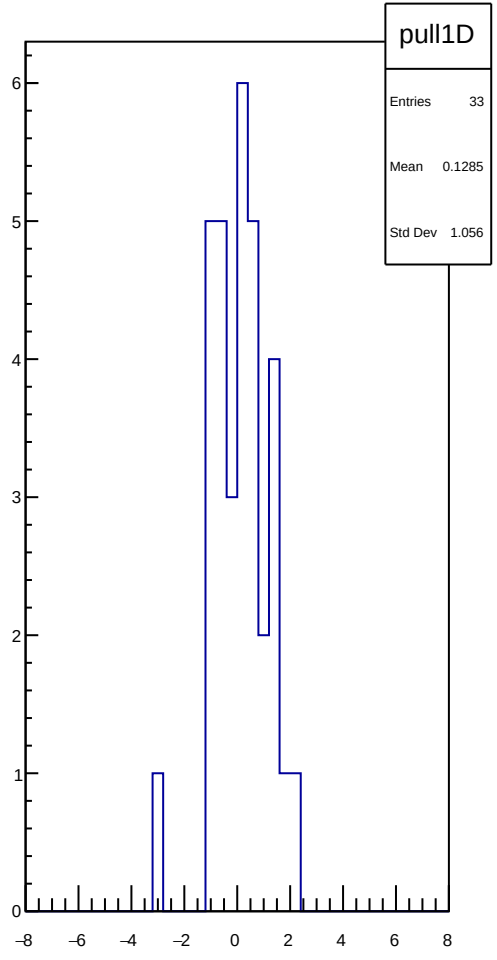

pull1D
Entries 33
Mean −0.04401
Std Dev 1.737
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

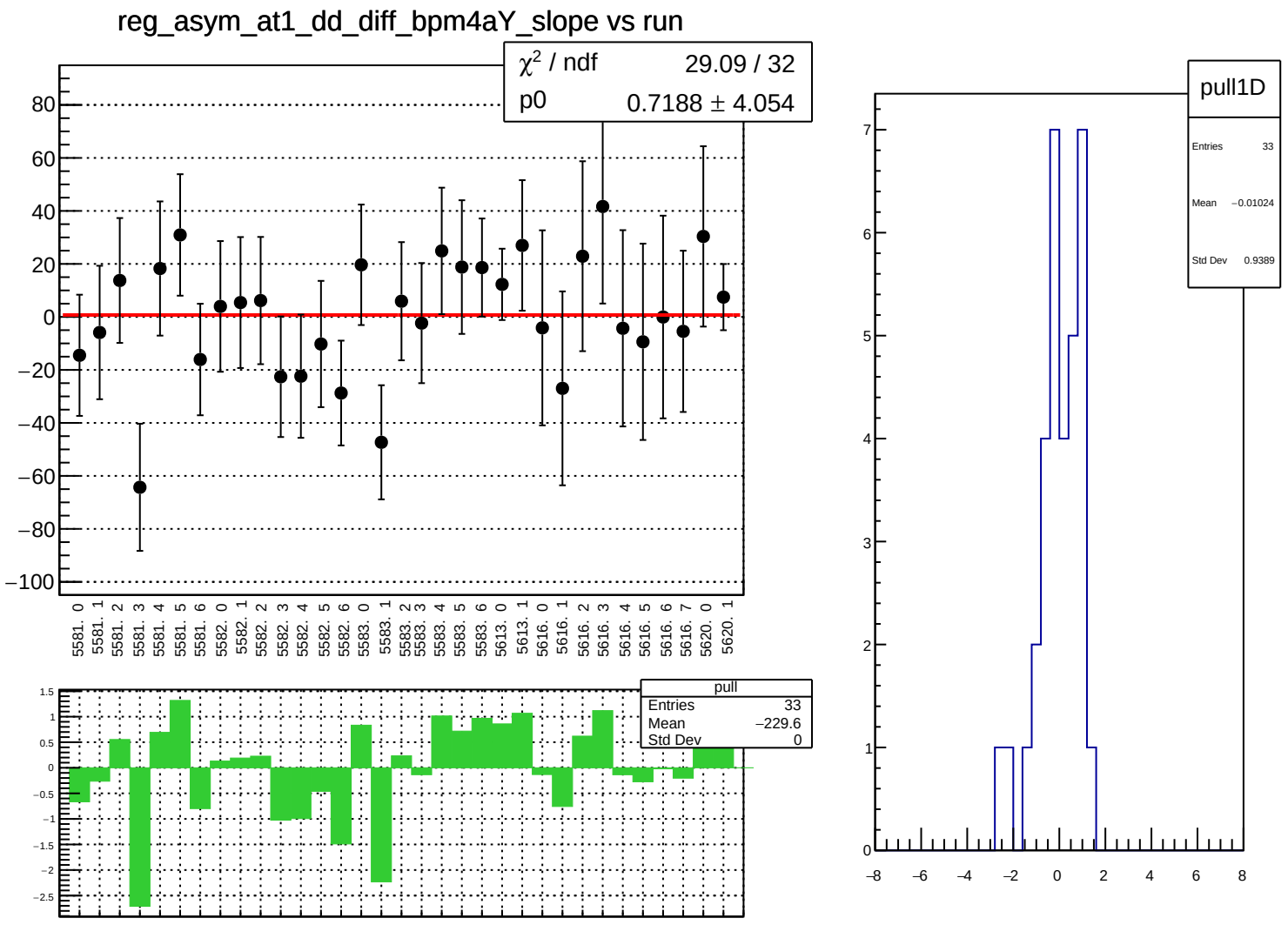

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.29 / 32
p0 −9.24 ± 4.896
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 47.75
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

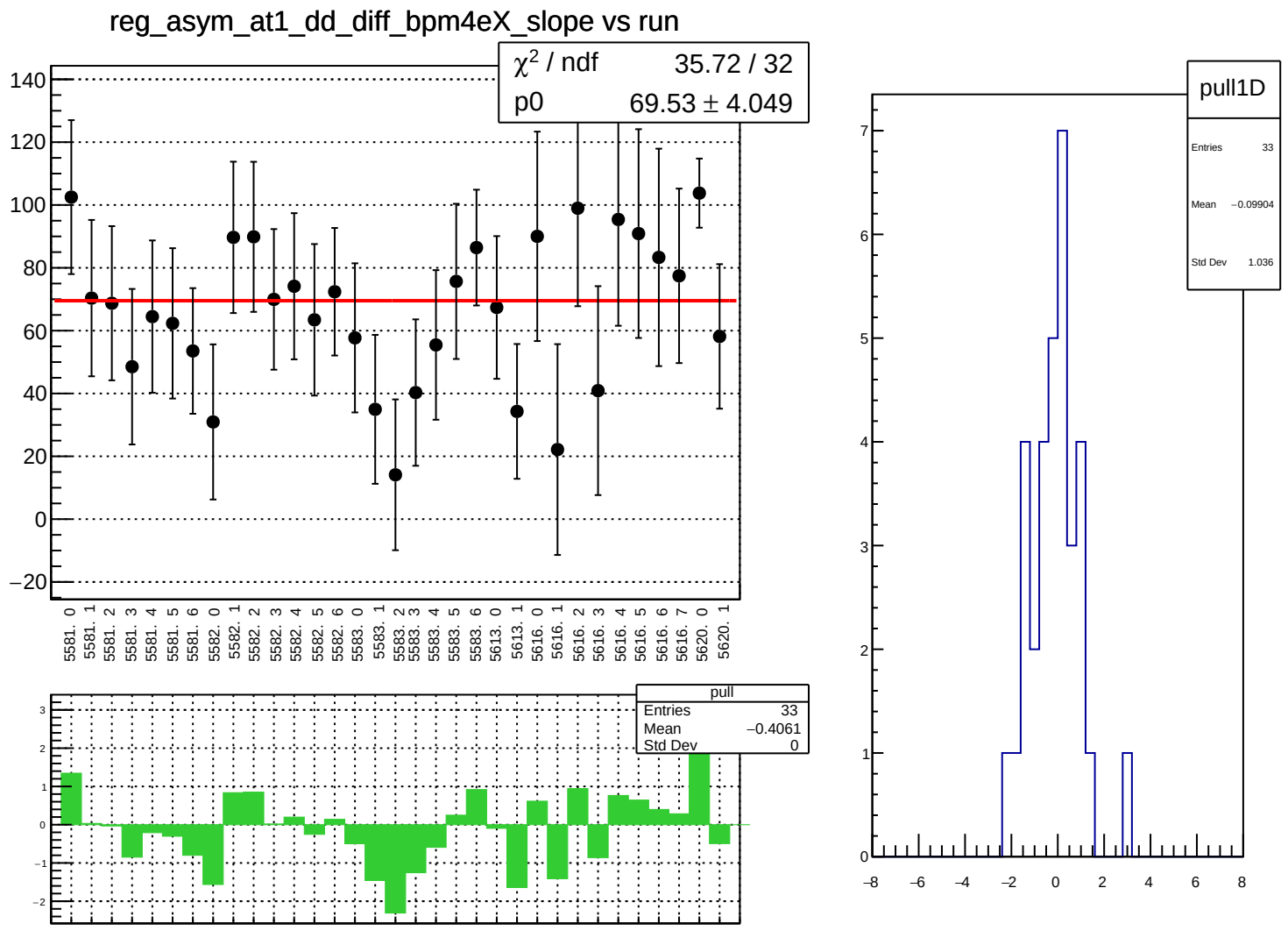

pull1D
Entries 33
Mean 0.1009
Std Dev 1.114
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

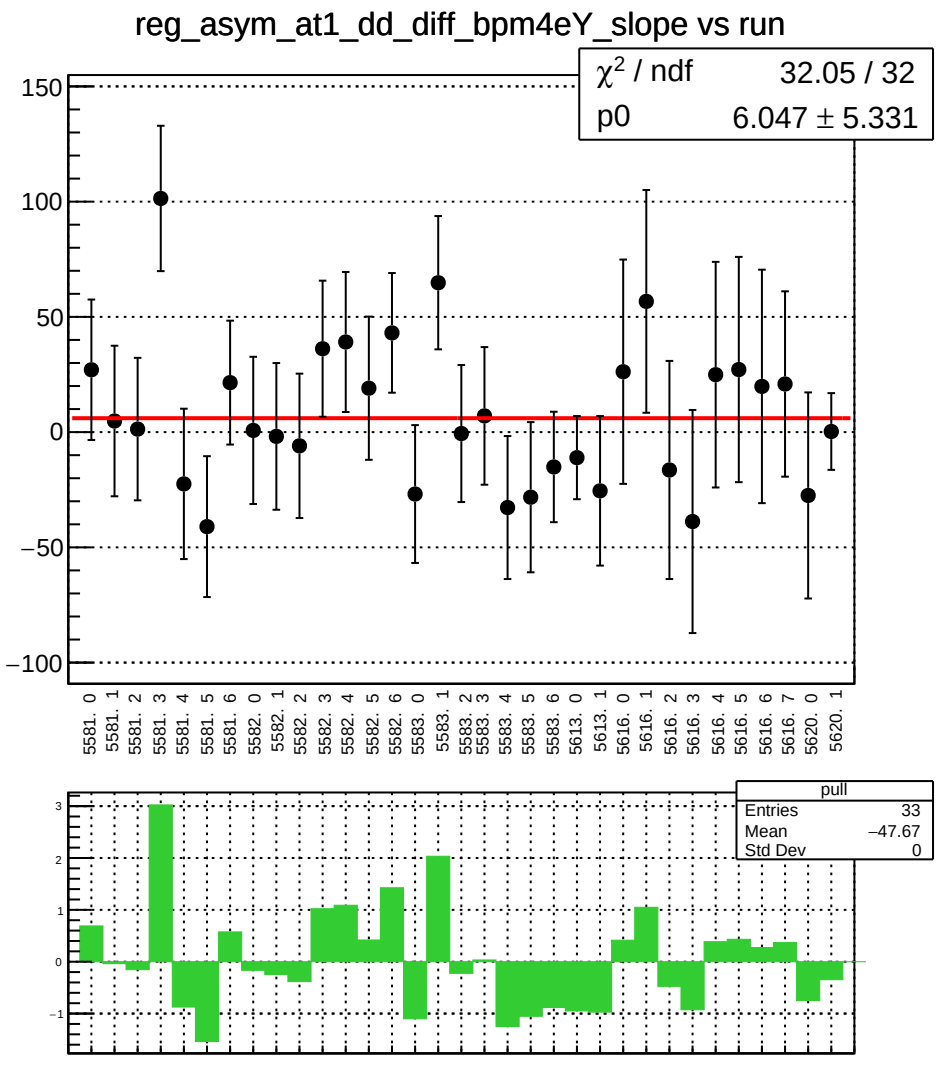

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 2.153e+04 / 32
p0 4.233 ± 0.1735
60
50
40
30
20
10
0
−10
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −46.29
Std Dev 0
50
40
30
20
10
0
−10
−20
−30
pull1D
Entries 33
Mean 5.111
Std Dev 1.918
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

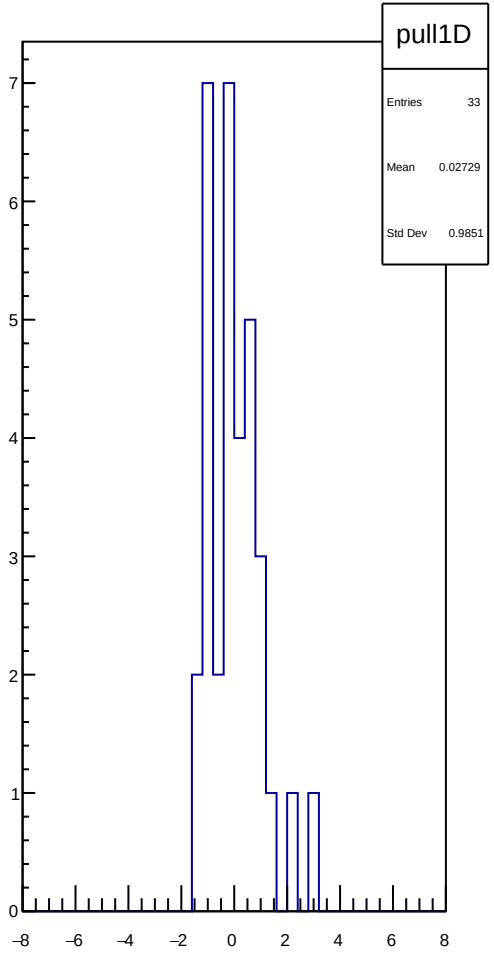

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 37.37 / 32
p0 −20.81± 4.92
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −1.829
Std Dev 0
2
1
0
−1
−2
−3

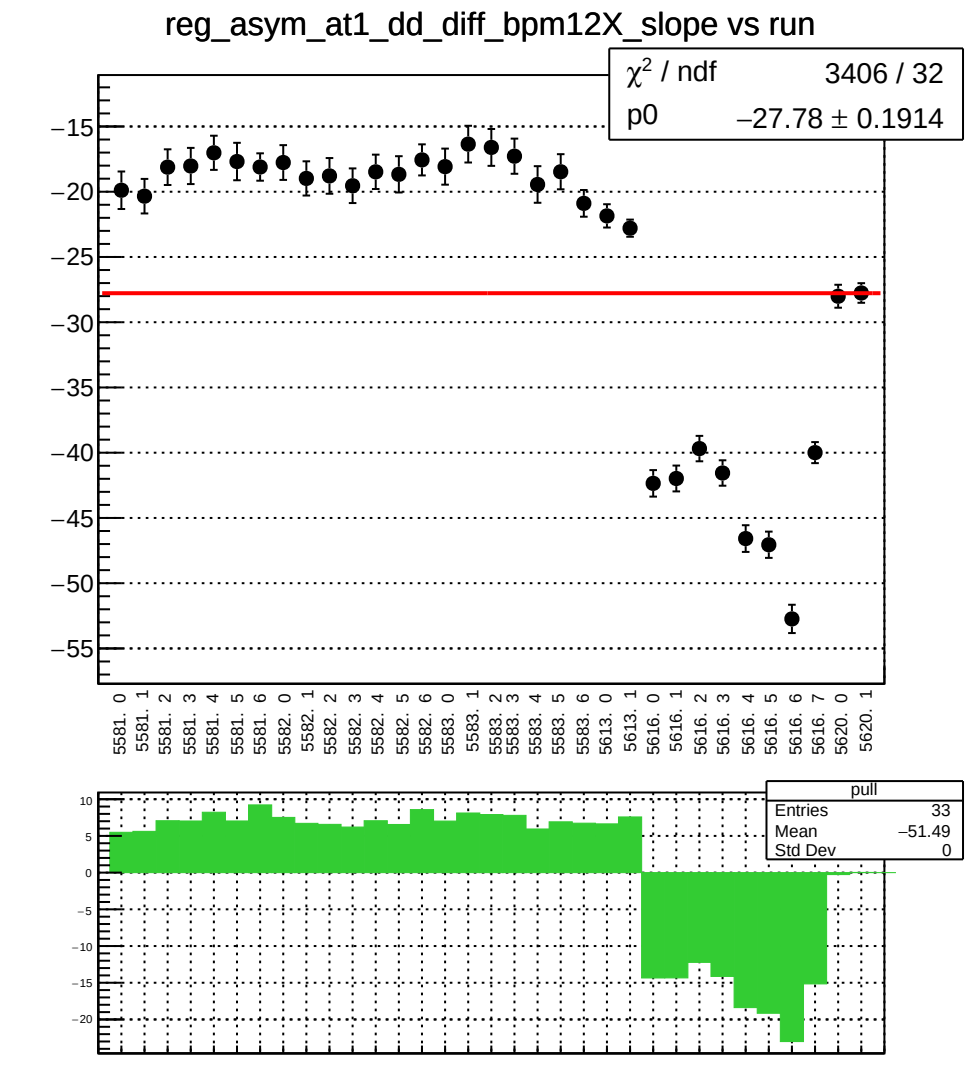

pull1D
Entries 33
Mean 0.1285
Std Dev 1.056
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

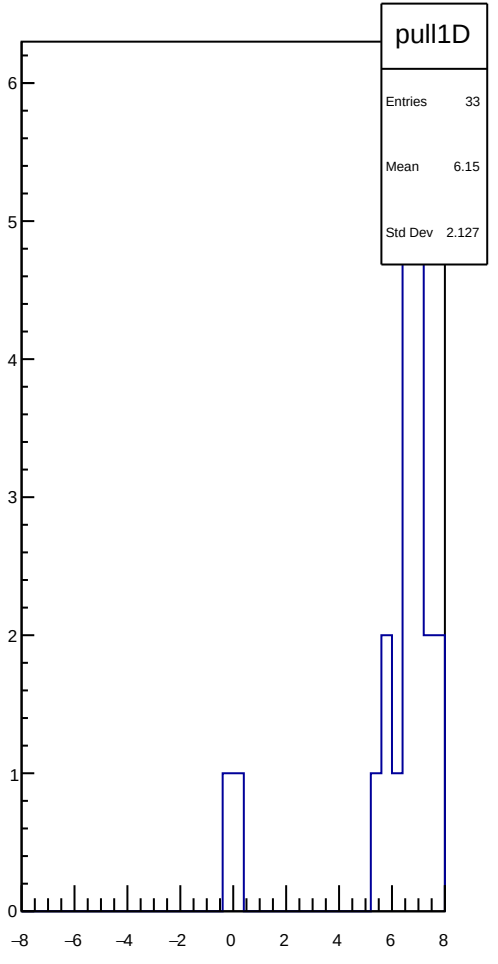

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.09 / 32
p0 0.7188 ± 4.054
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −229.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean −0.01024
Std Dev 0.9389
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

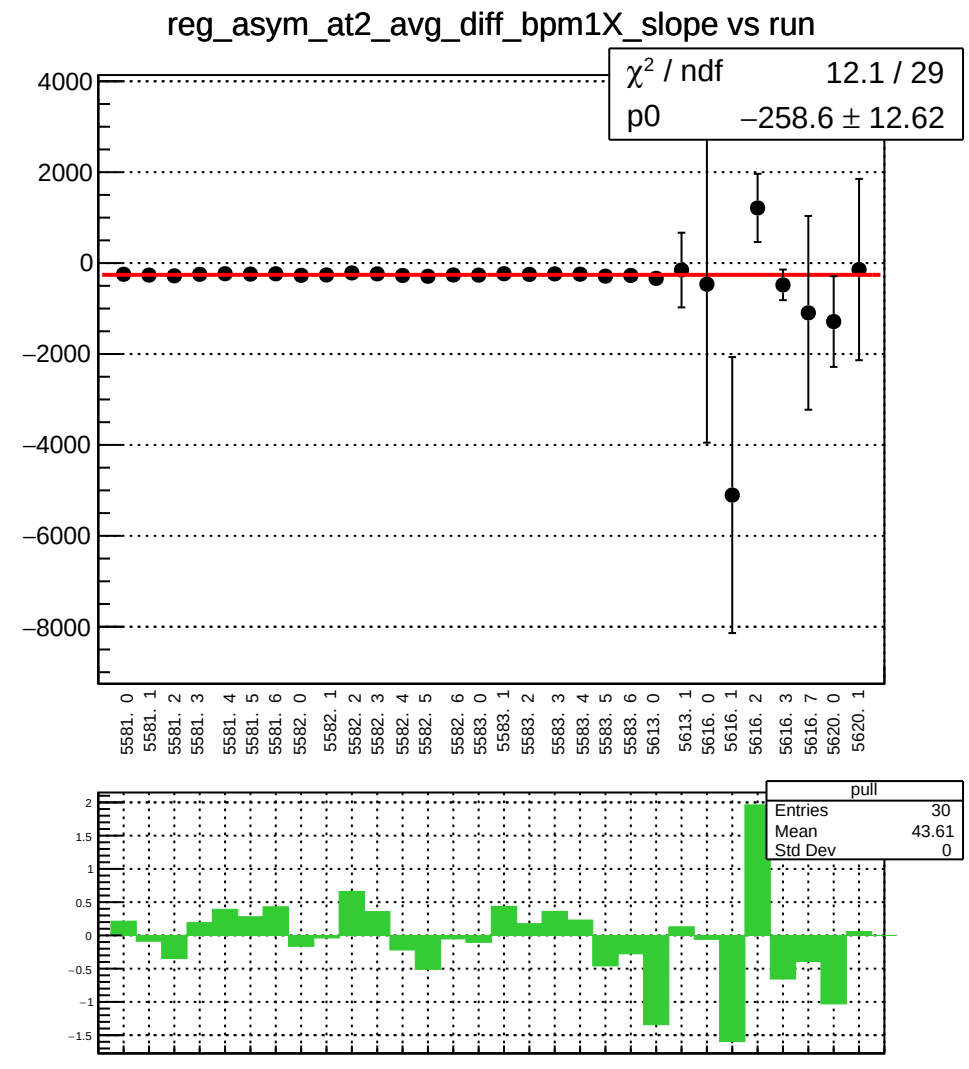

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.72 / 32
p0 69.53 ± 4.049
140
120
100
80
60
40
20
0
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.4061
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.09904
Std Dev 1.036
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

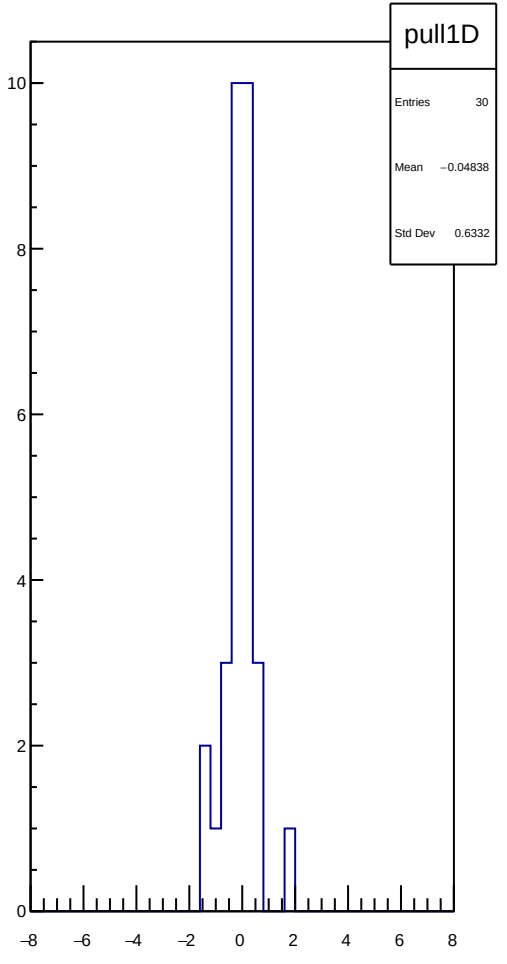

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.05 / 32
p0 6.047 ± 5.331
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −47.67
Std Dev 0
3
2
1
0
−1

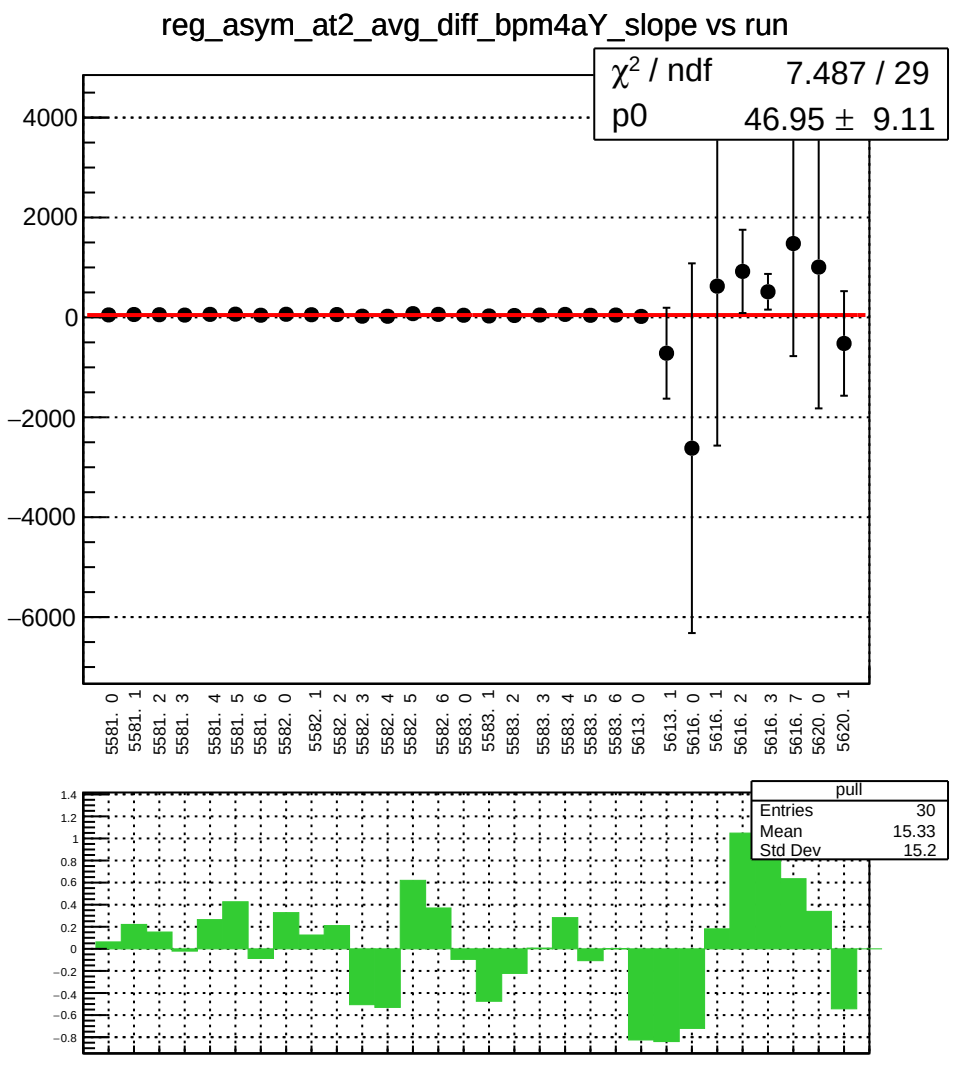

pull1D
Entries 33
Mean 0.02729
Std Dev 0.9851
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

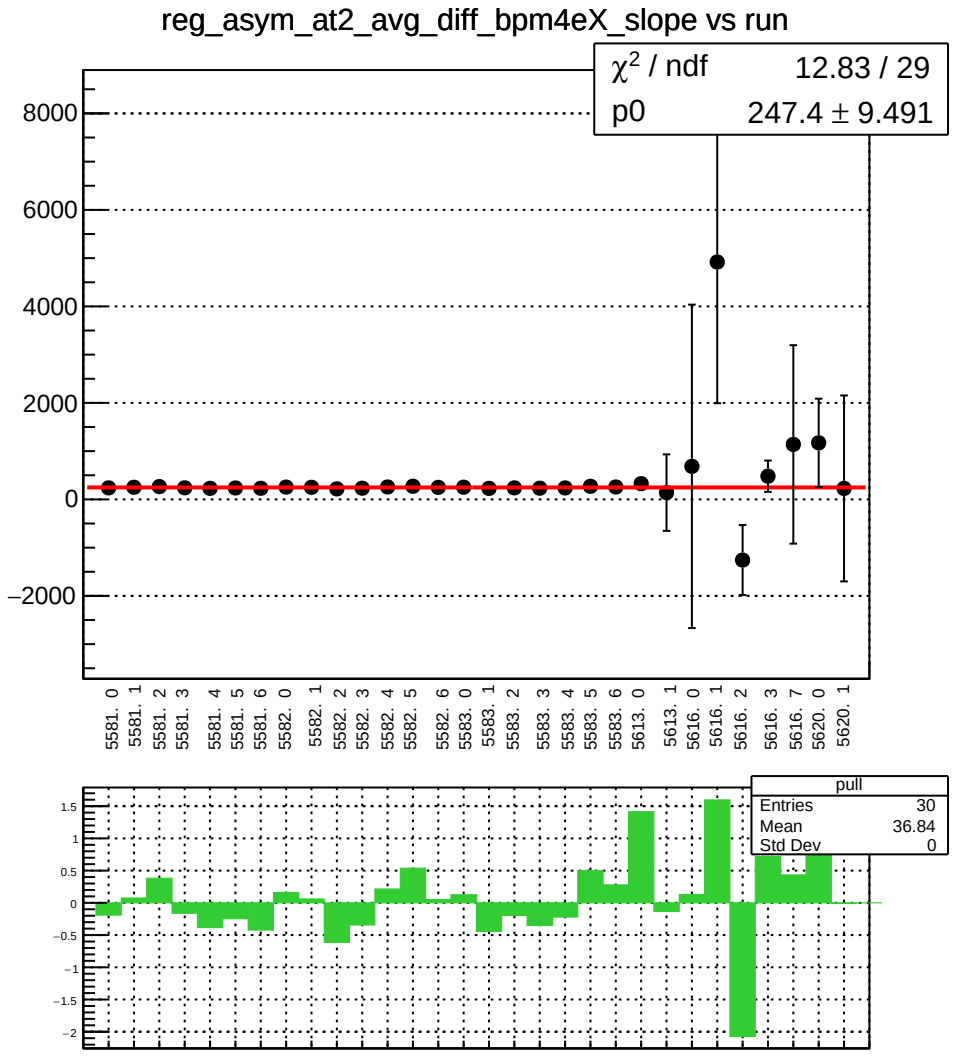

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 3406 / 32
p0 −27.78 ± 0.1914
−15
−20
−25
−30
−35
−40
−45
−50
−55
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −51.49
Std Dev 0
10
5
0
−5
−10
−15
−20

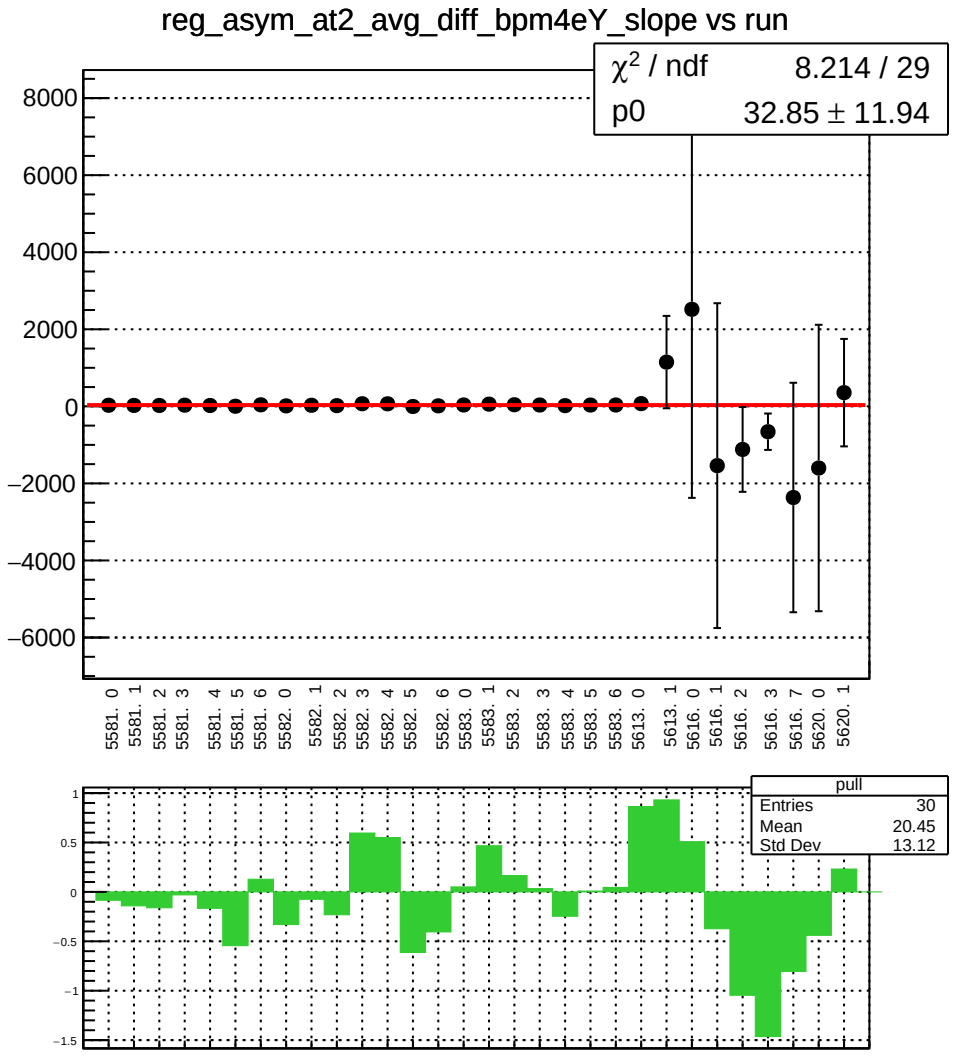

pull1D
Entries 33
Mean 6.15
Std Dev 2.127
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

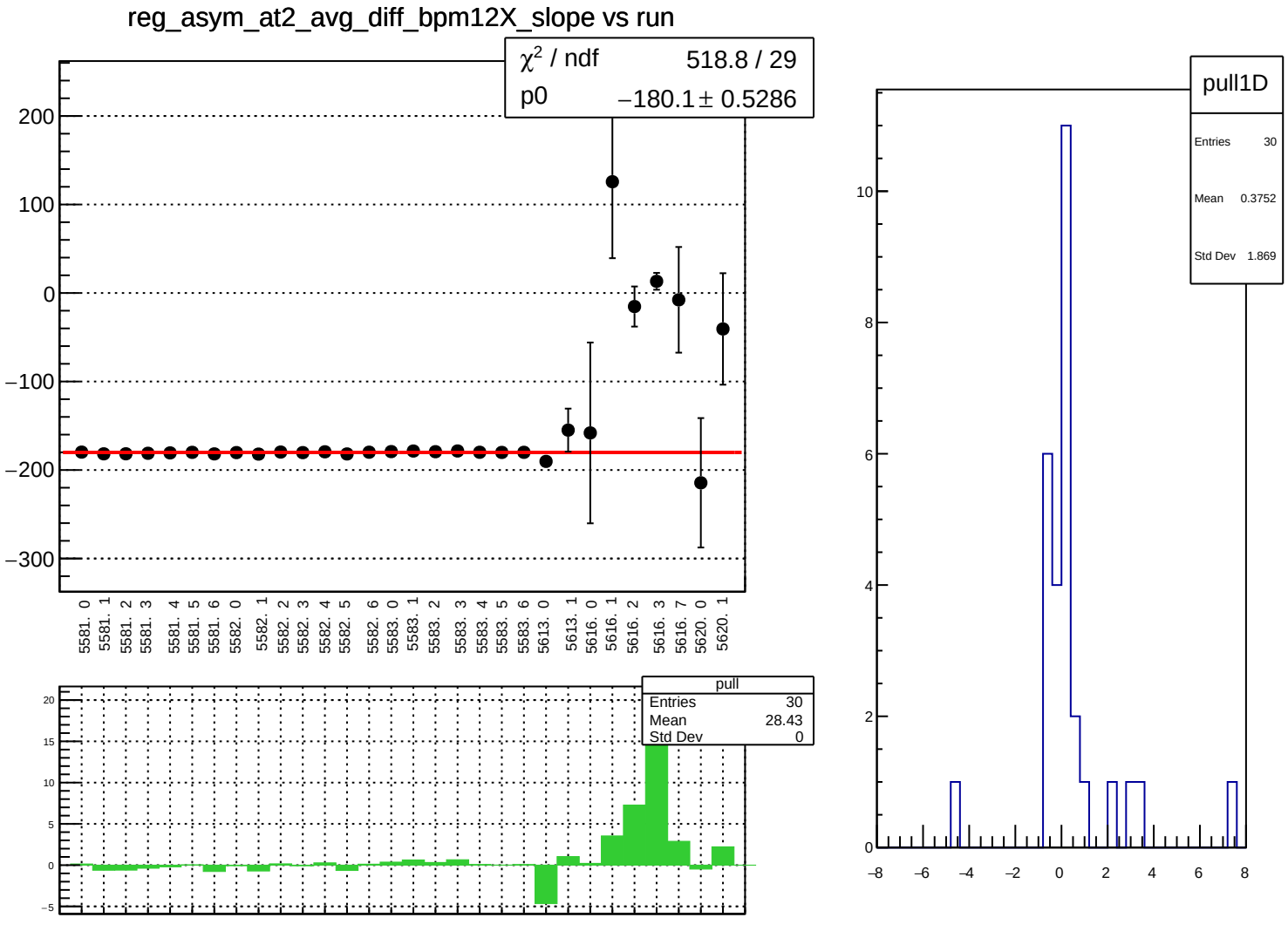

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 12.1 / 29
p0 −258.6 ± 12.62
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean 43.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

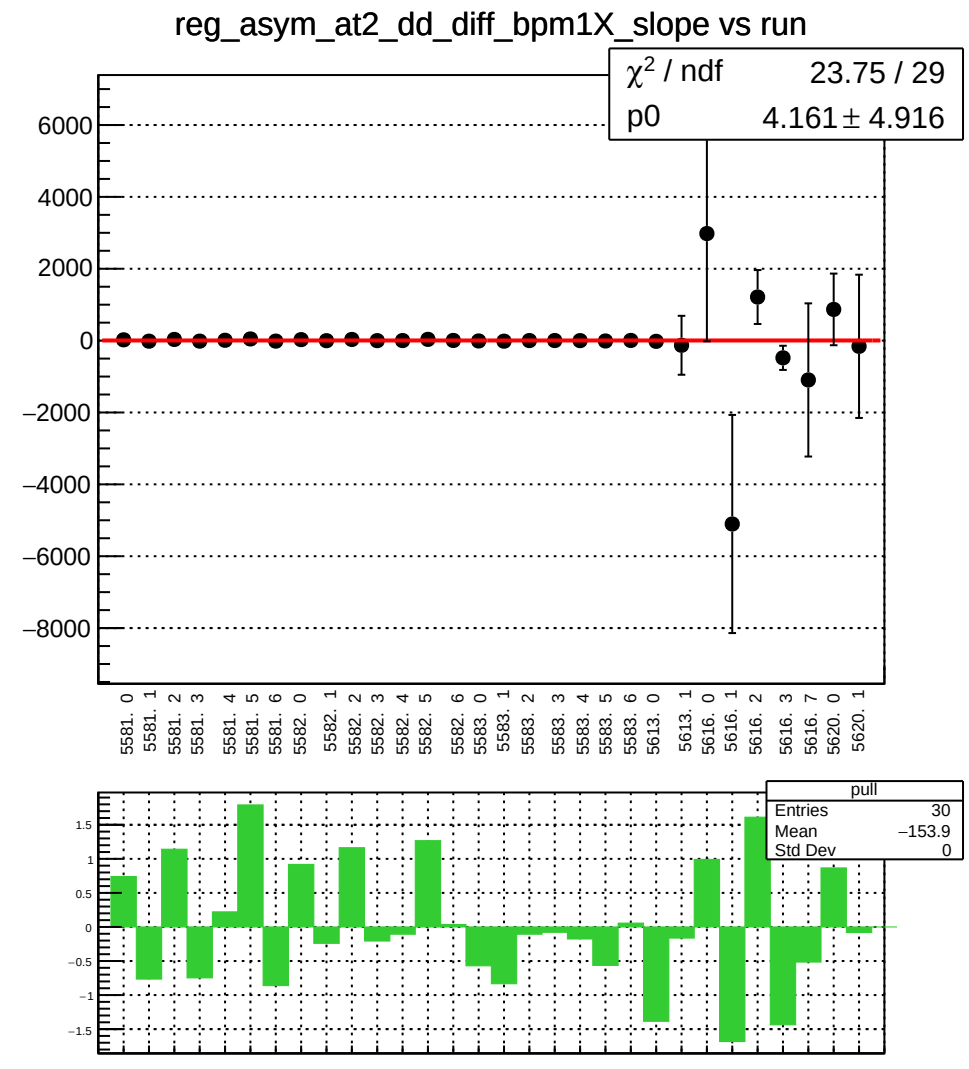

pull1D
Entries 30
Mean −0.04838
Std Dev 0.6332
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

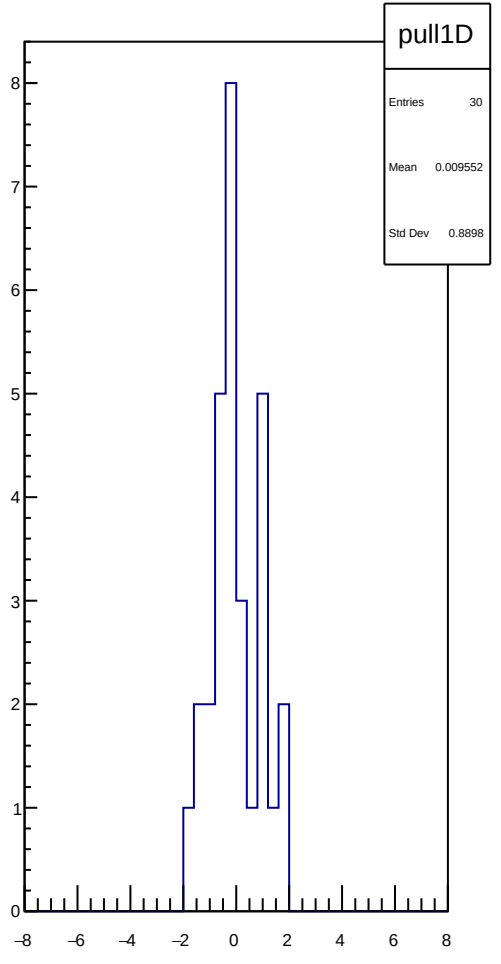

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.487 / 29
p0 46.95 ± 9.11
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean 15.33
Std Dev 15.2
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 30
Mean 0.05364
Std Dev 0.4967
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

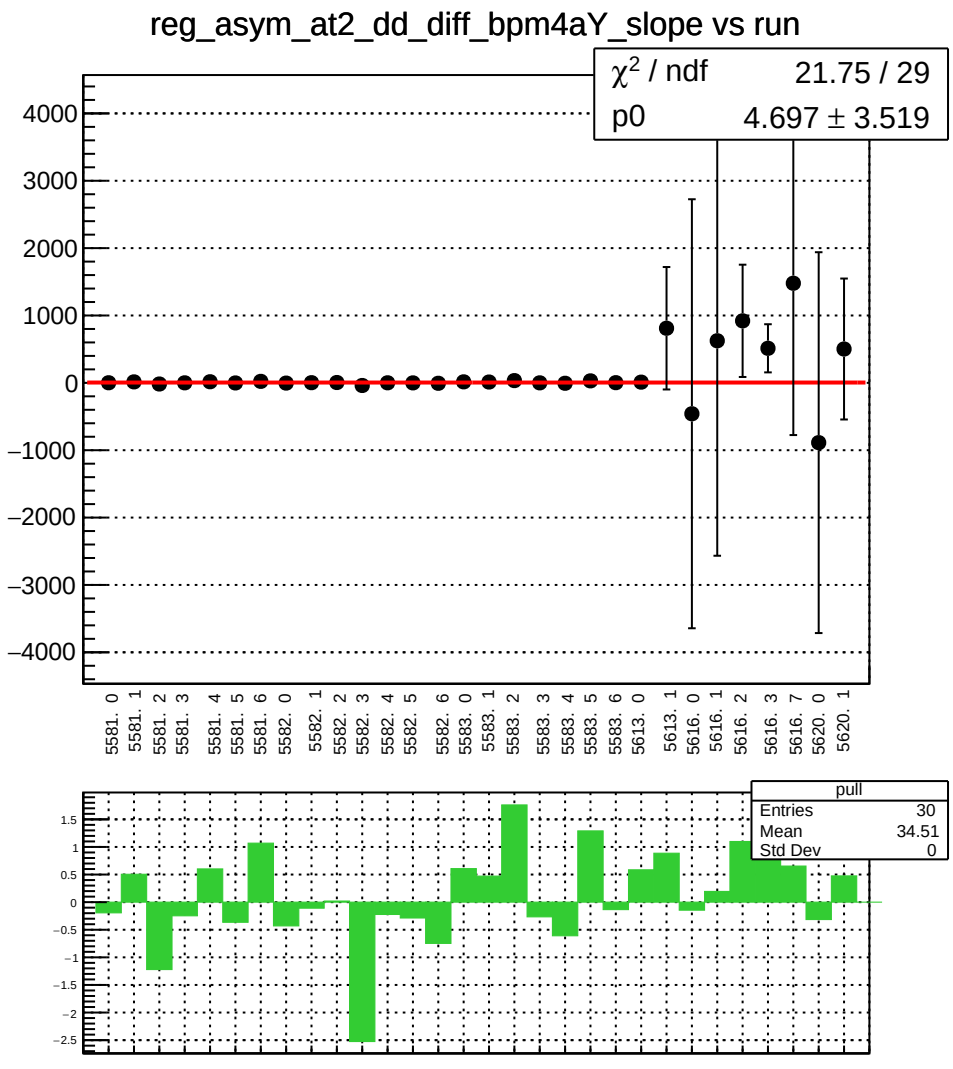

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.83 / 29
p0 247.4 ± 9.491
8000
6000
4000
2000
0
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean 36.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 30
Mean 0.06315
Std Dev 0.651
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

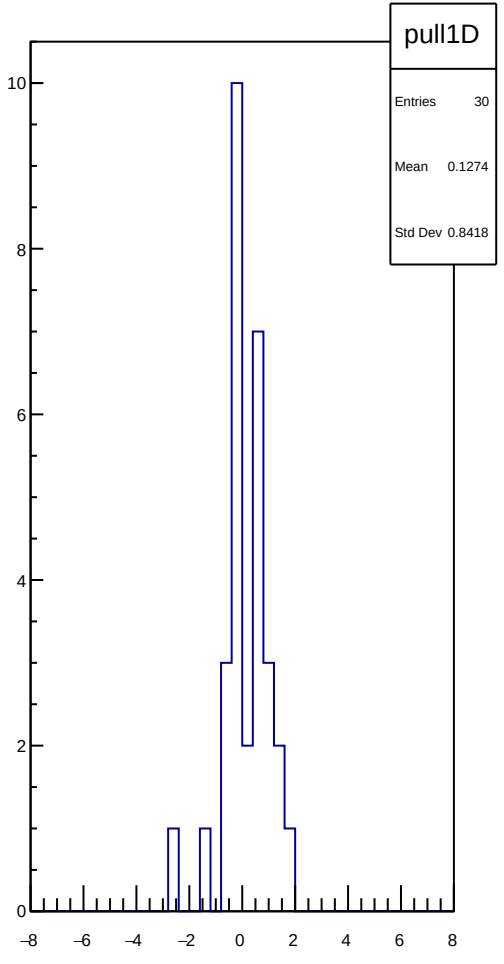

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.214 / 29
p0 32.85 ± 11.94
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean 20.45
Std Dev 13.12
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 30
Mean −0.08595
Std Dev 0.5162
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

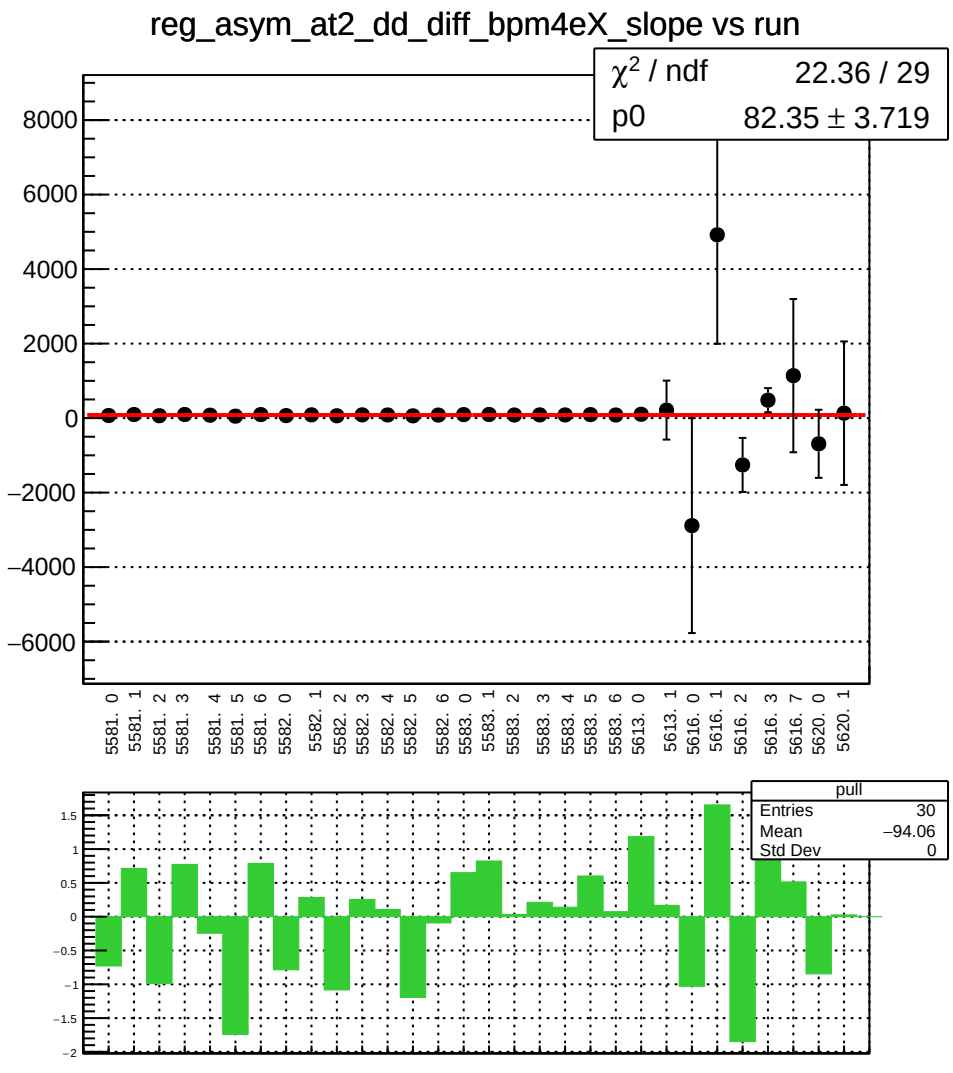

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 518.8 / 29
p0 −180.1 ± 0.5286
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean 28.43
Std Dev 0
20
15
10
5
0
−5
pull1D
Entries 30
Mean 0.3752
Std Dev 1.869
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

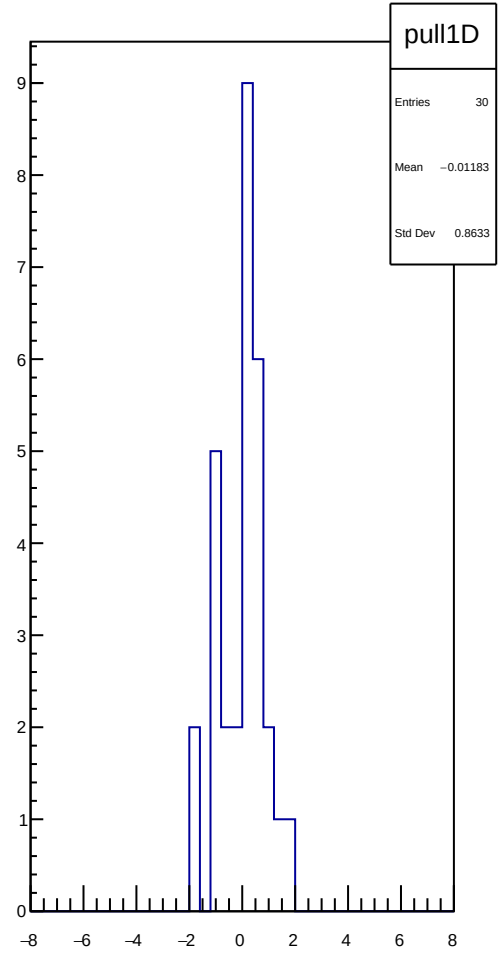

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 23.75 / 29
p0 4.161 ± 4.916
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean −153.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

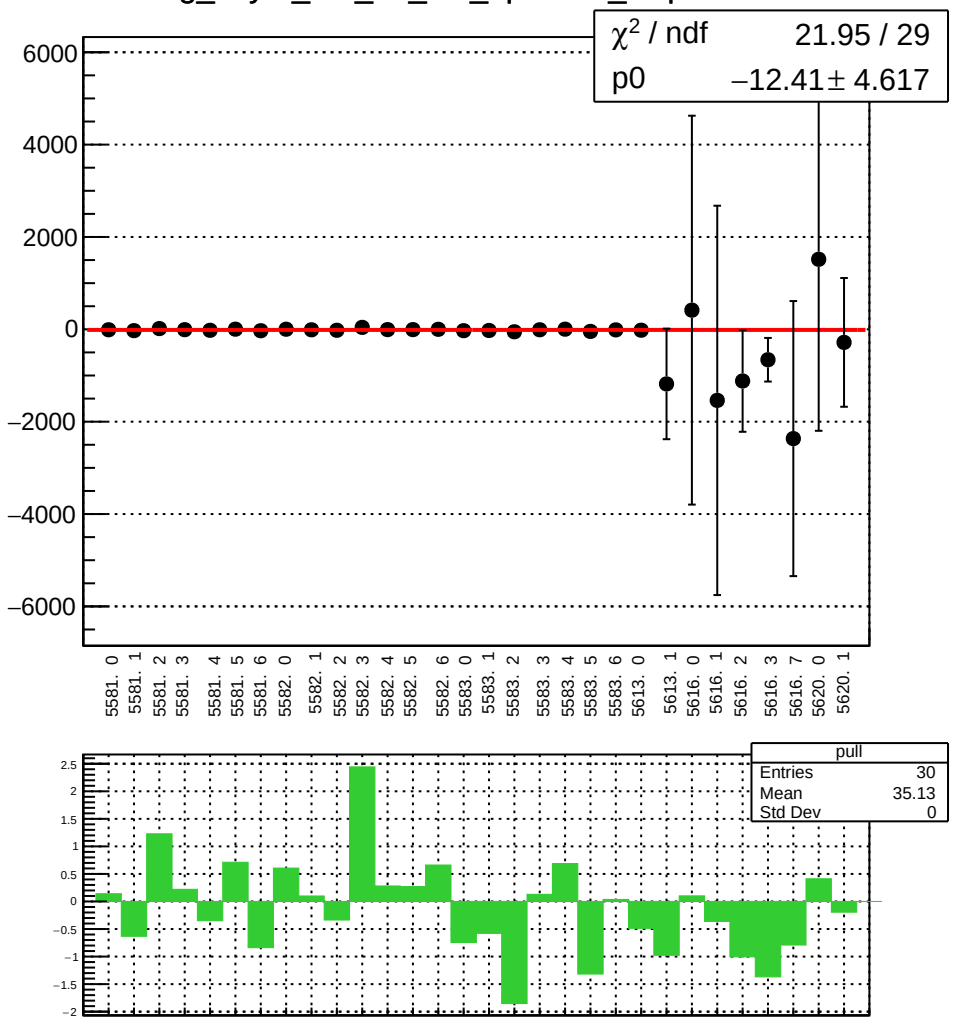

pull1D
Entries 30
Mean 0.009552
Std Dev 0.8898
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

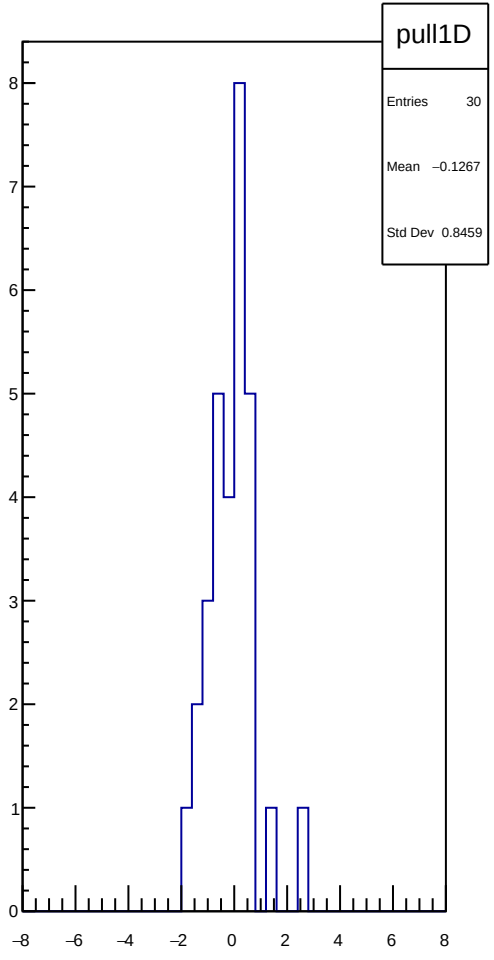

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.75 / 29
p0 4.697 ± 3.519
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean 34.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

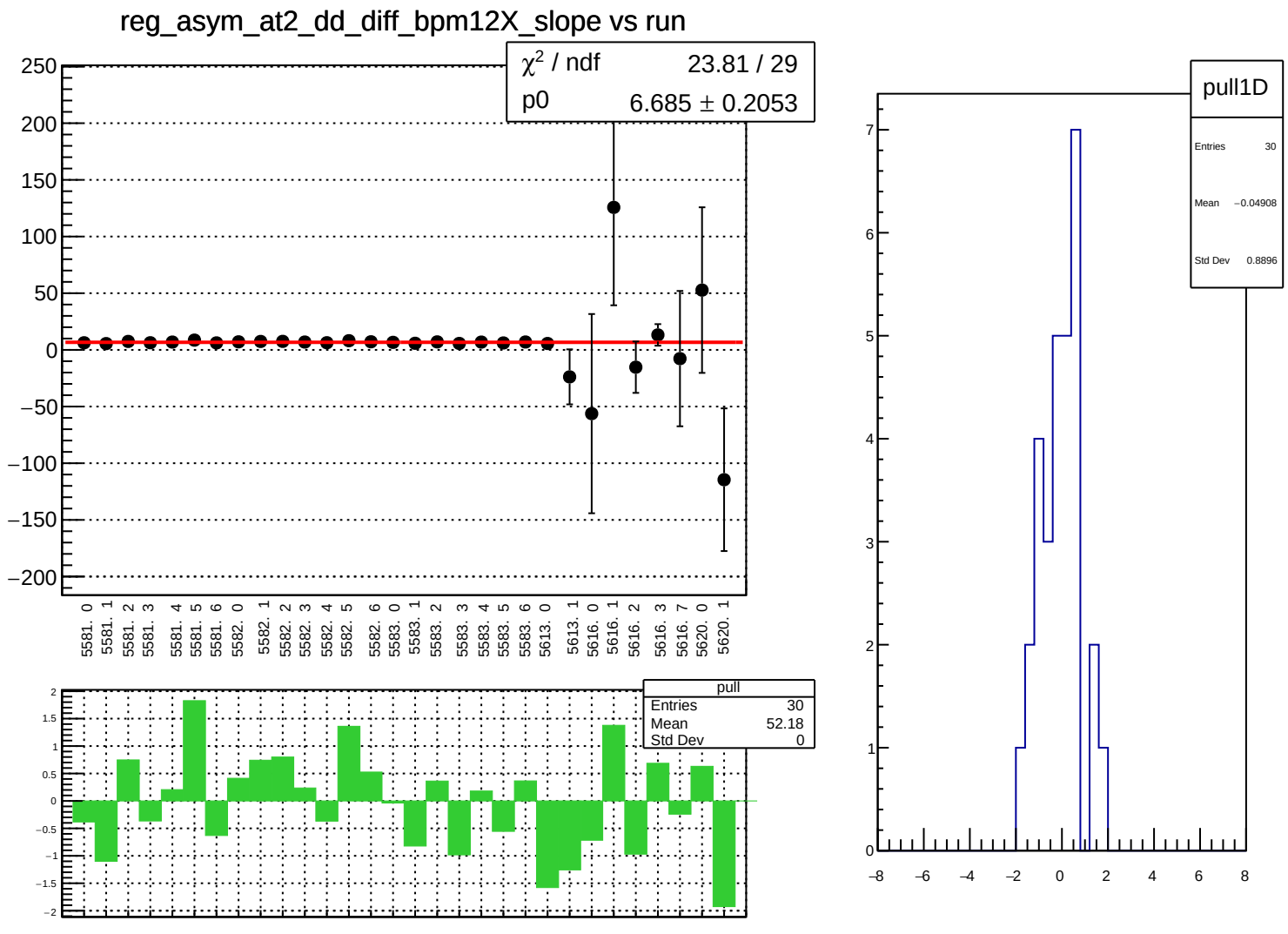

pull1D
Entries 30
Mean 0.1274
Std Dev 0.8418
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

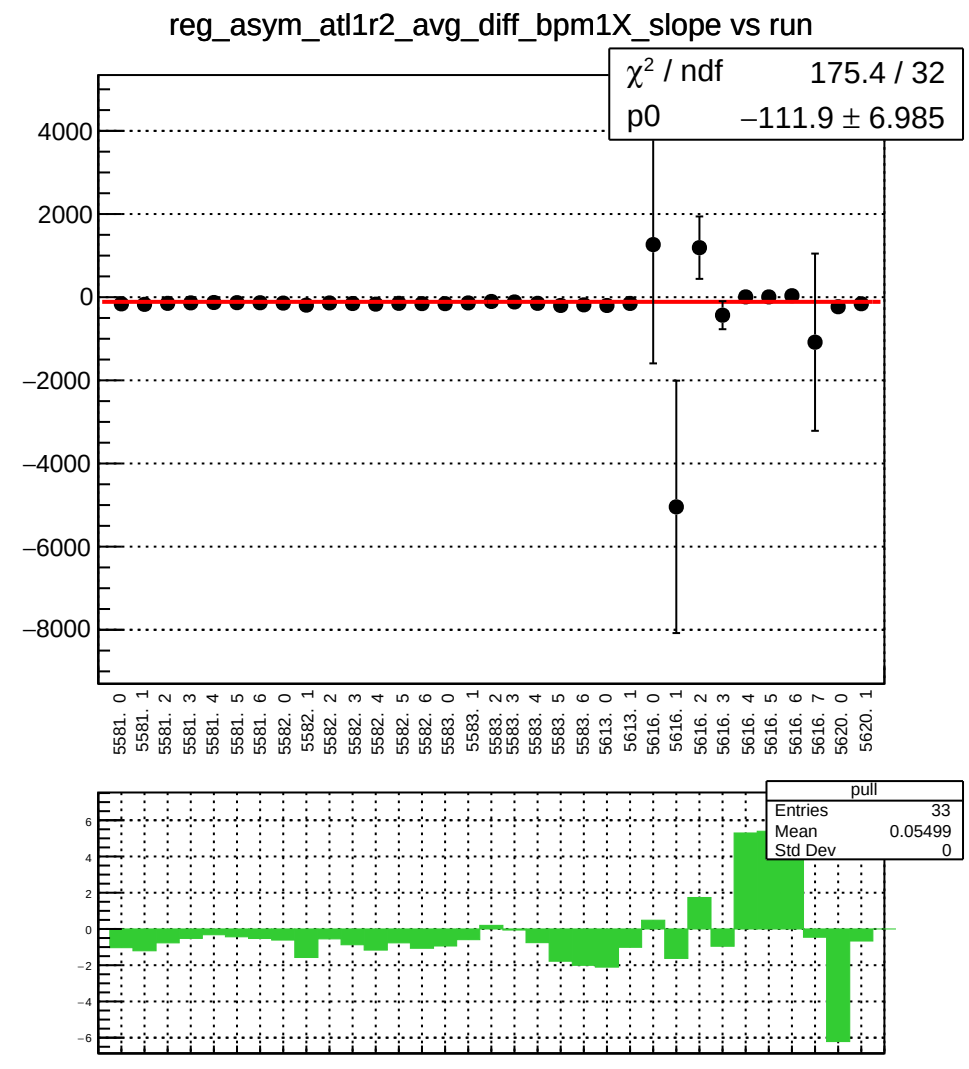

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.36 / 29
p0 82.35 ± 3.719
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean −94.06
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

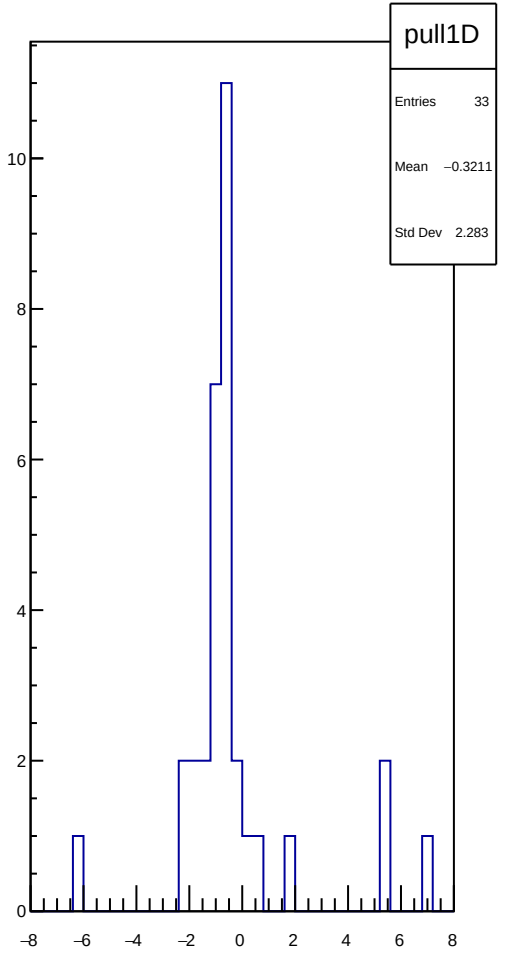

pull1D
Entries 30
Mean −0.01183
Std Dev 0.8633
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

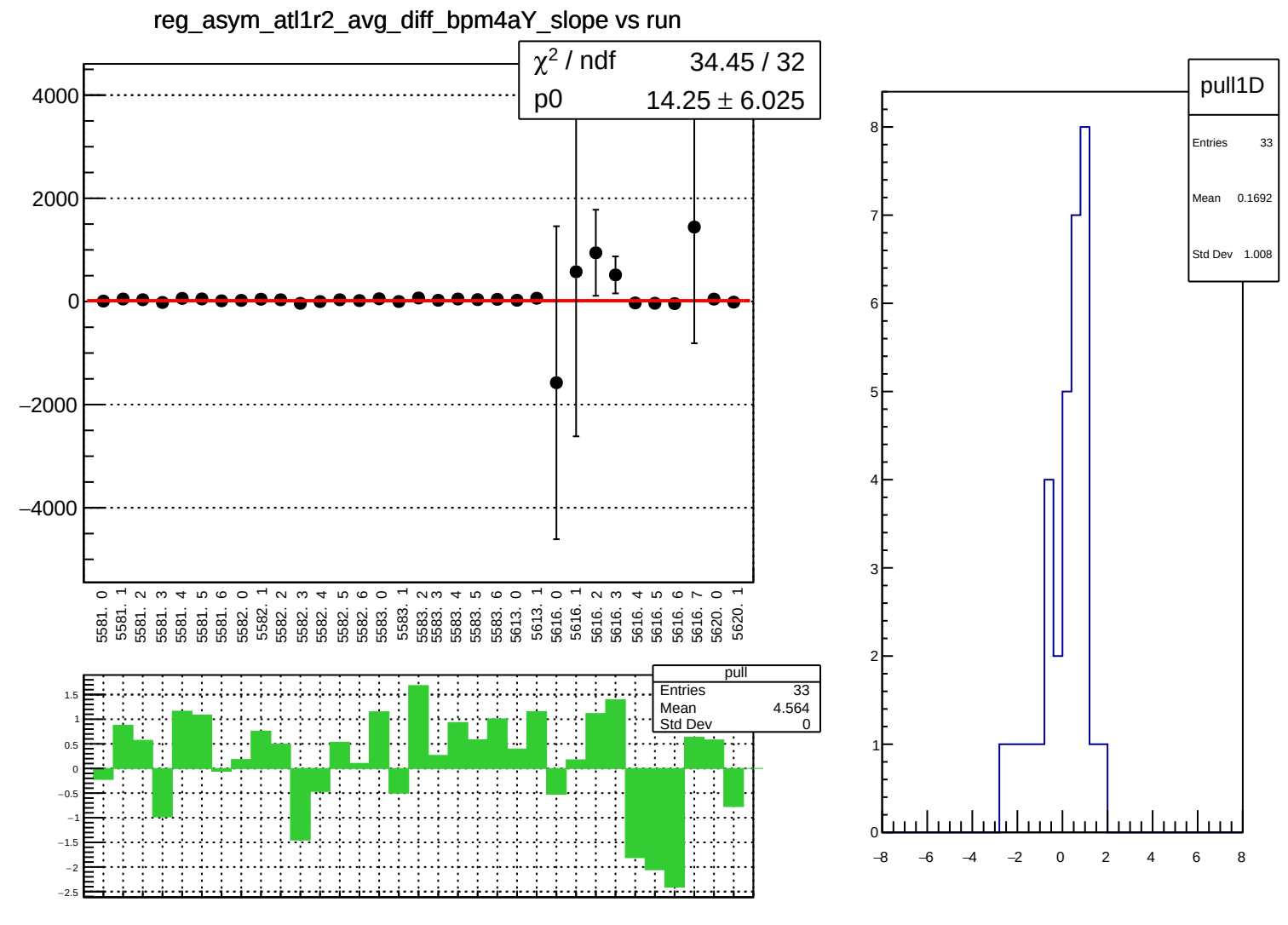

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.95 / 29
p0 −12.41 ± 4.617
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean 35.13
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

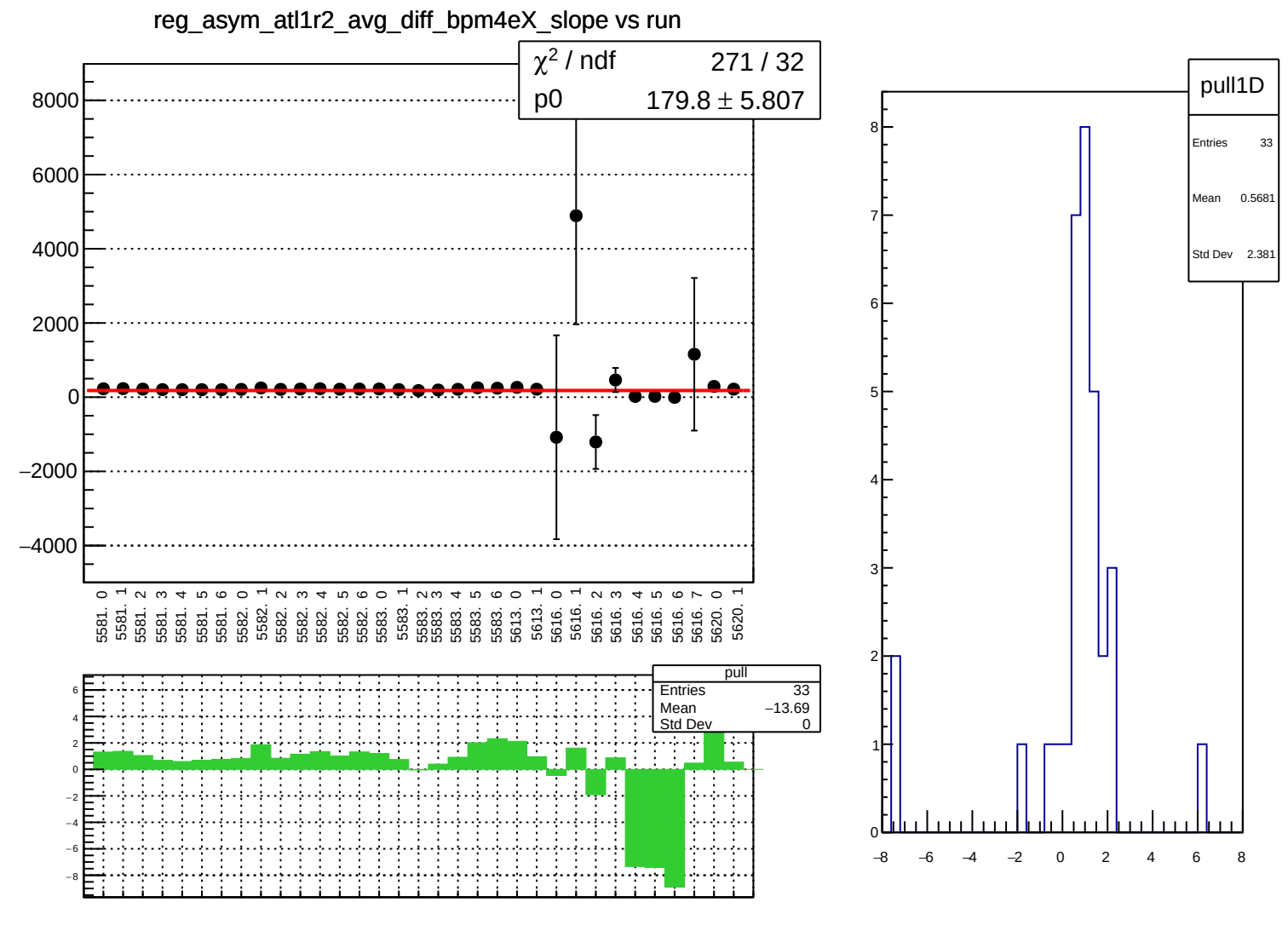

pull1D
Entries 30
Mean −0.1267
Std Dev 0.8459
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

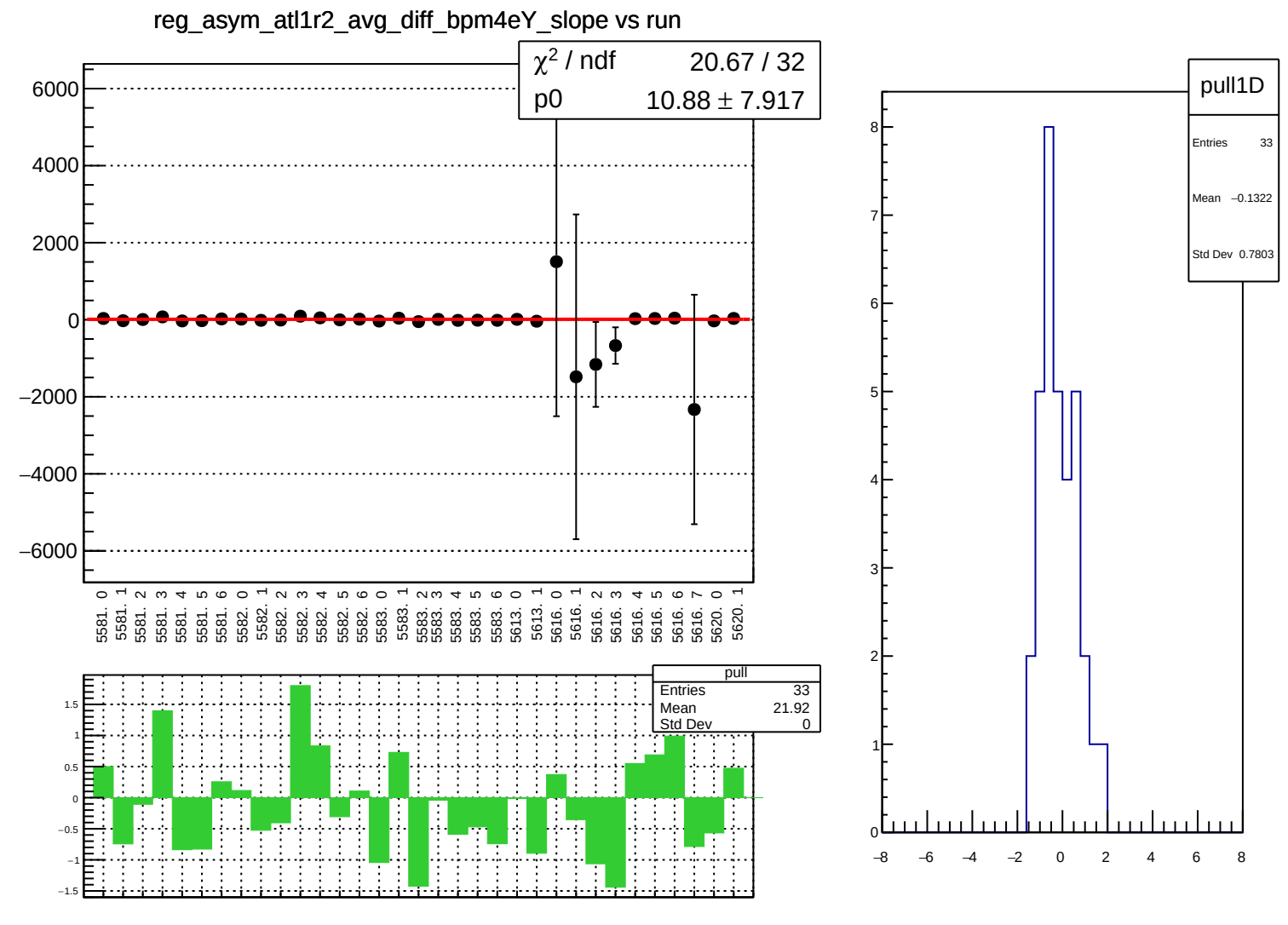

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 23.81 / 29
p0 6.685 ± 0.2053
250
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 7
5620. 0
5620. 1
pull
Entries 30
Mean 52.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 30
Mean −0.04908
Std Dev 0.8896
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

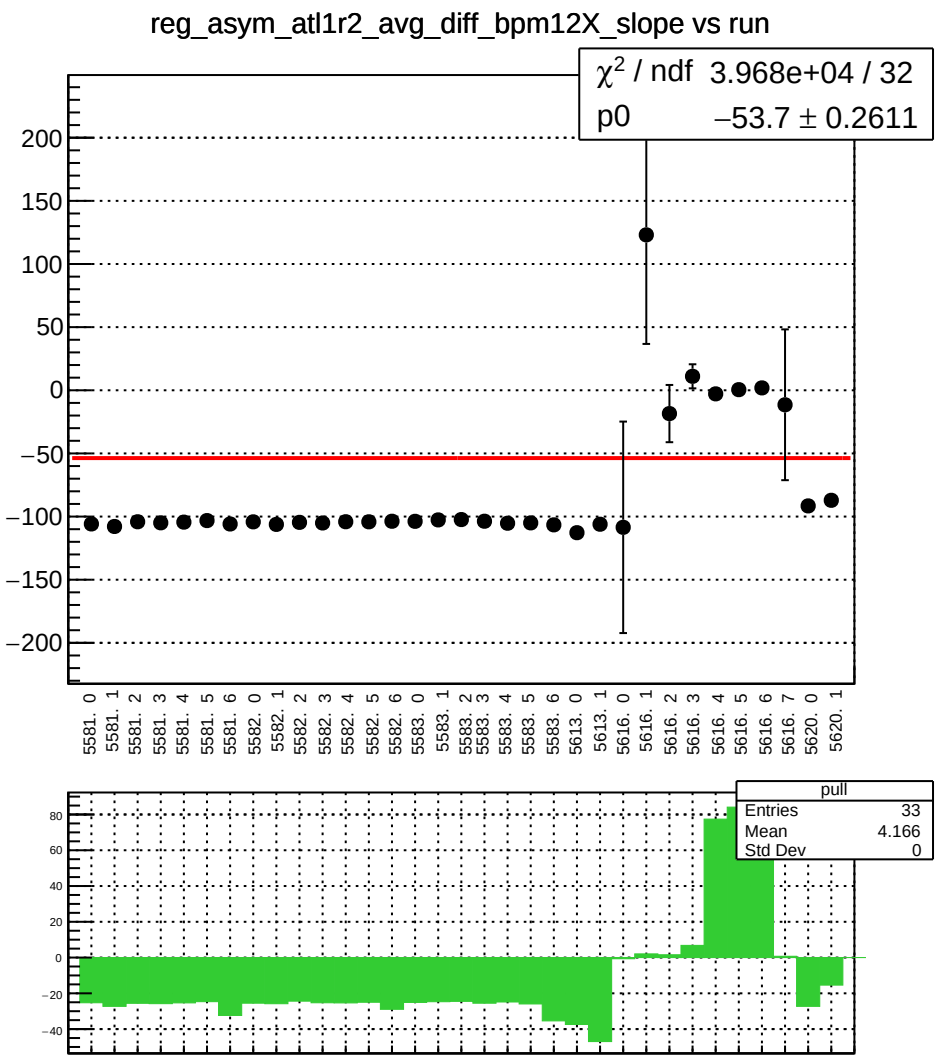

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 175.4 / 32
p0 −111.9 ± 6.985
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 0.05499
Std Dev 0
6
4
2
0
−2
−4
−6

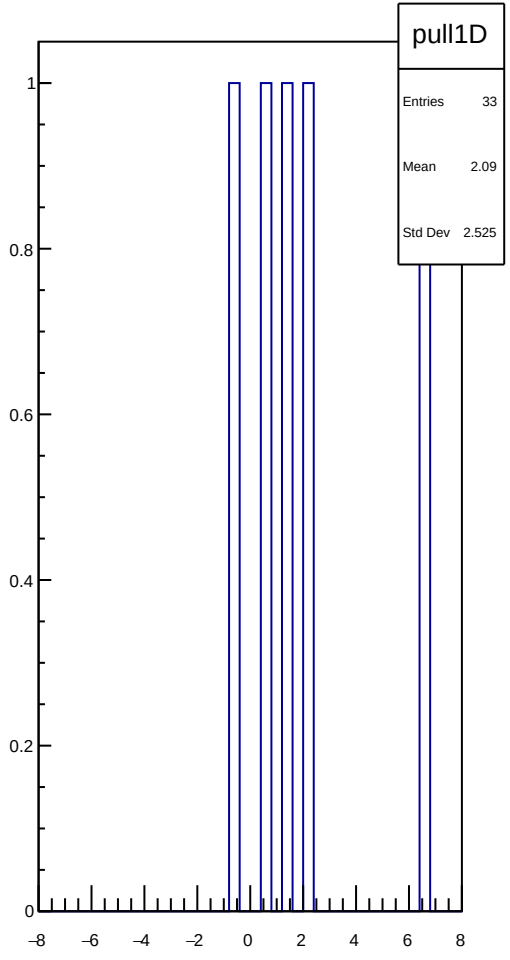

pull1D
Entries 33
Mean −0.3211
Std Dev 2.283
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

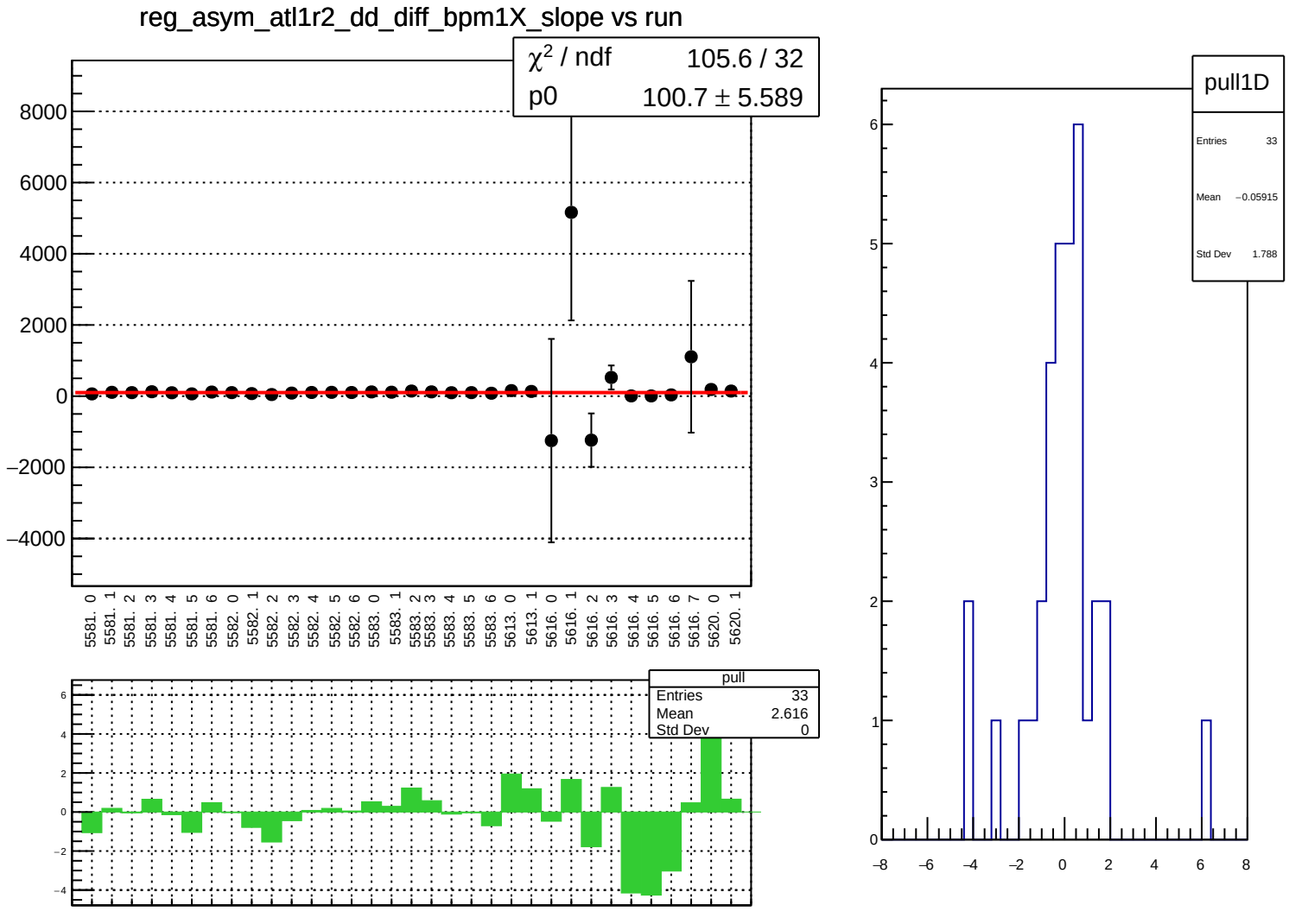

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.45 / 32
p0 14.25 ± 6.025
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 4.564
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.1692
Std Dev 1.008
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

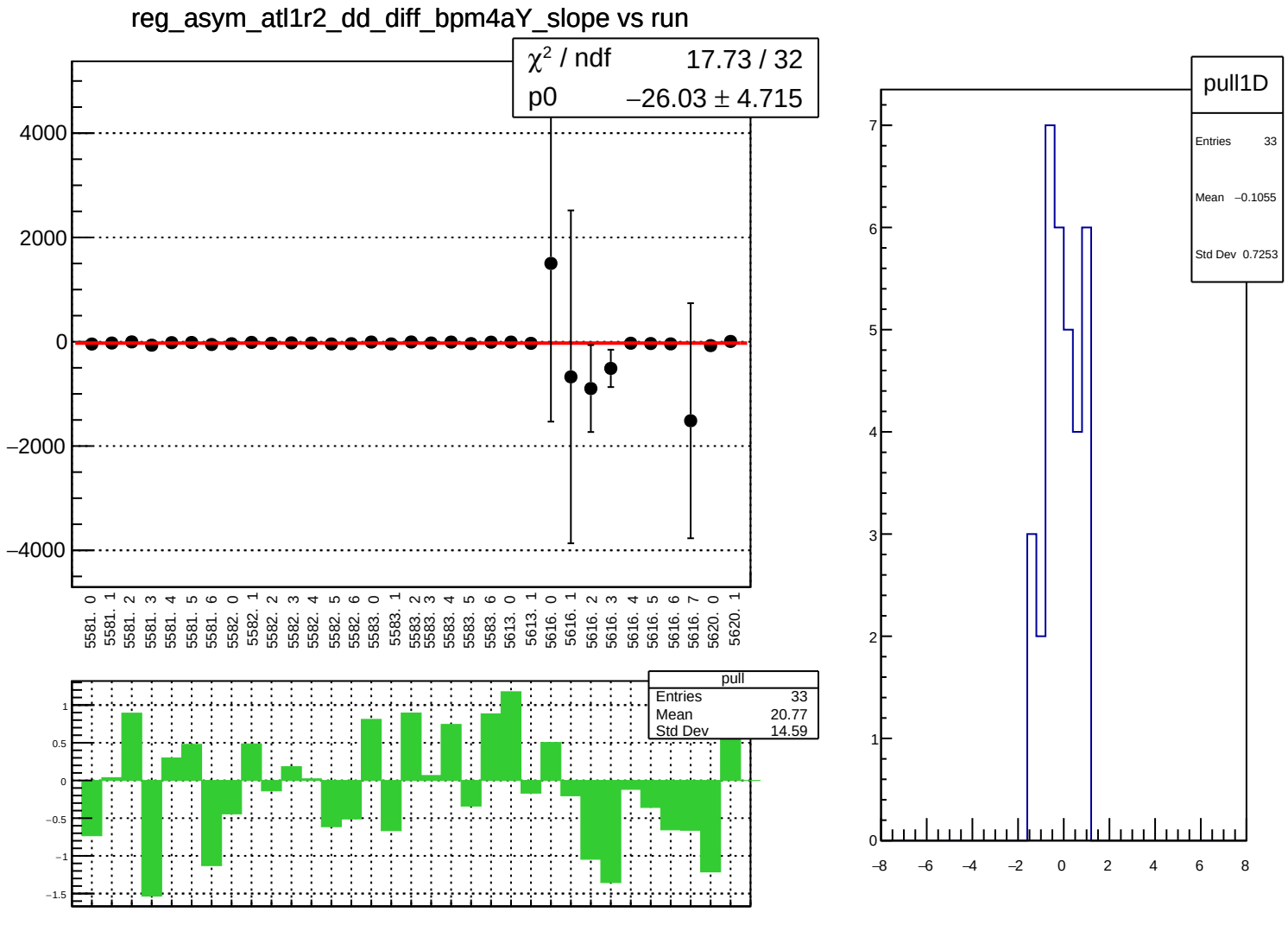

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 271 / 32
p0 179.8 ± 5.807
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −13.69
Std Dev 0
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 33
Mean 0.5681
Std Dev 2.381
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

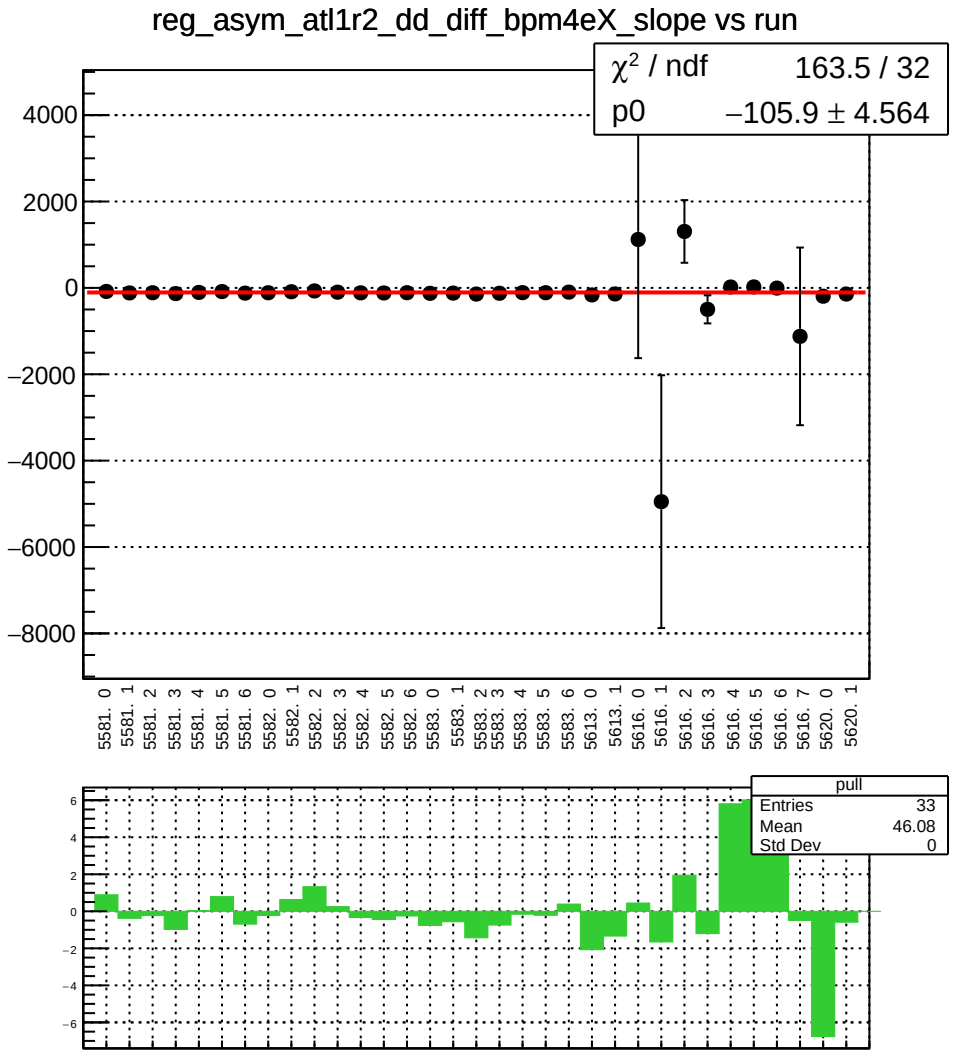

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.67 / 32
p0 10.88 ± 7.917
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1322
Std Dev 0.7803
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

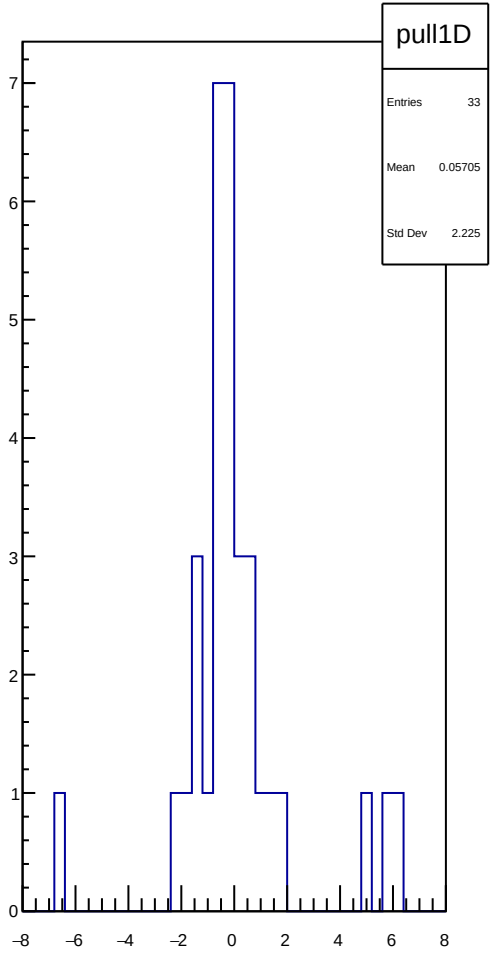

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 3.968e+04 / 32
p0 −53.7 ± 0.2611
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 4.166
Std Dev 0
80
60
40
20
0
−20
−40

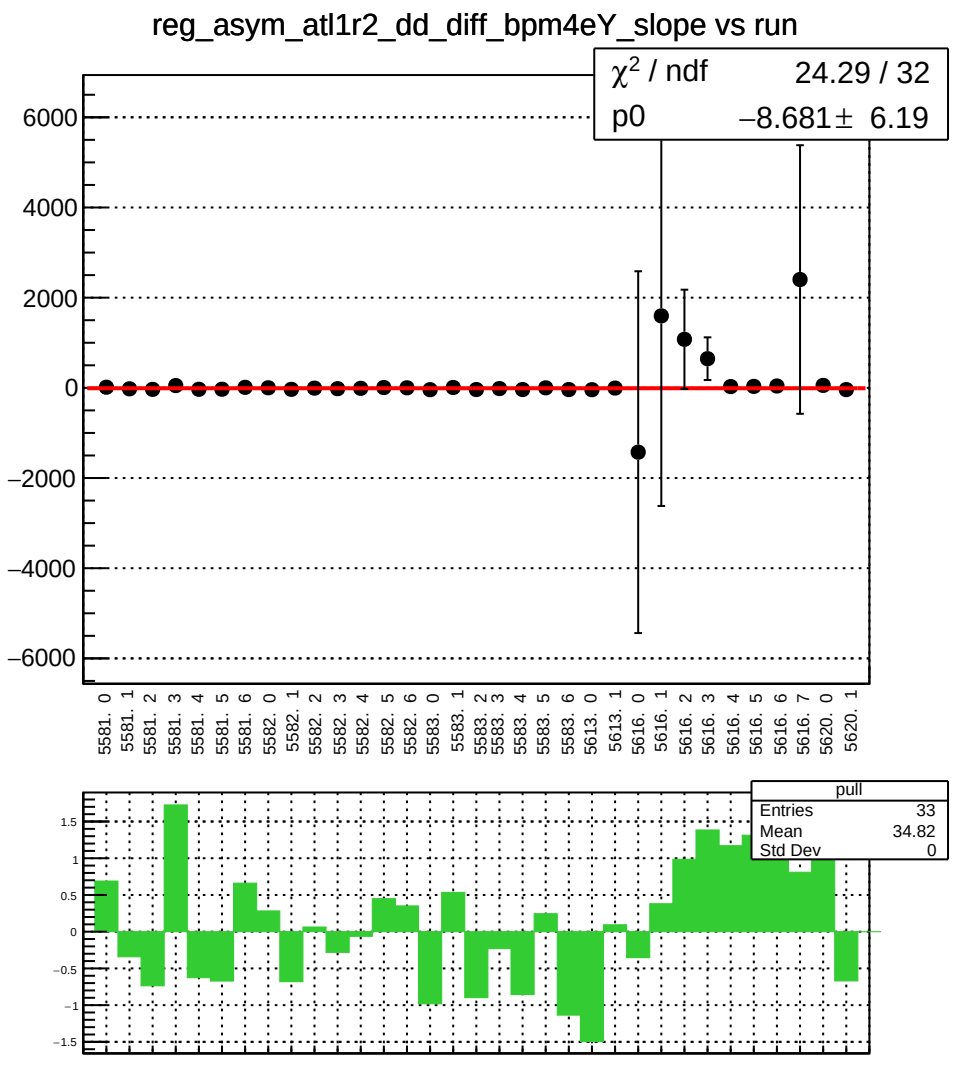

pull1D
Entries 33
Mean 2.09
Std Dev 2.525
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

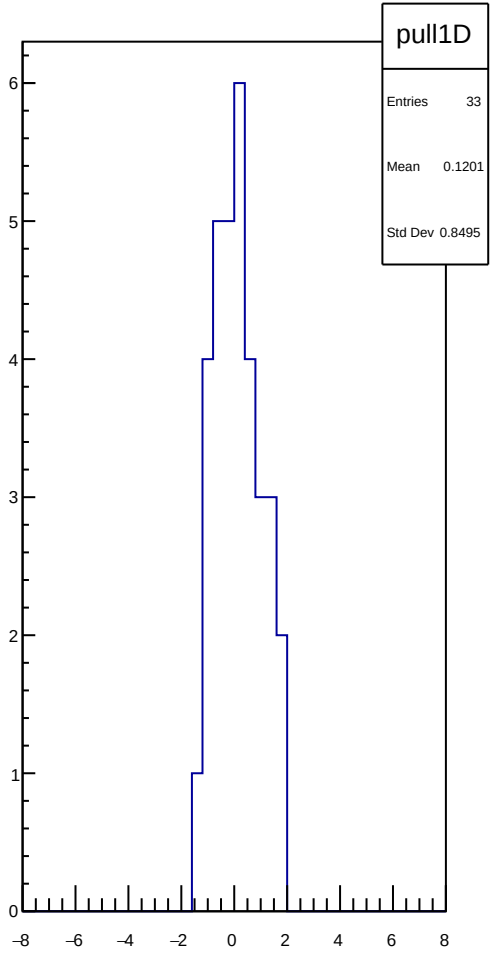

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 105.6 / 32
p0 100.7 ± 5.589
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2.616
Std Dev 0
pull1D
Entries 33
Mean −0.05915
Std Dev 1.788

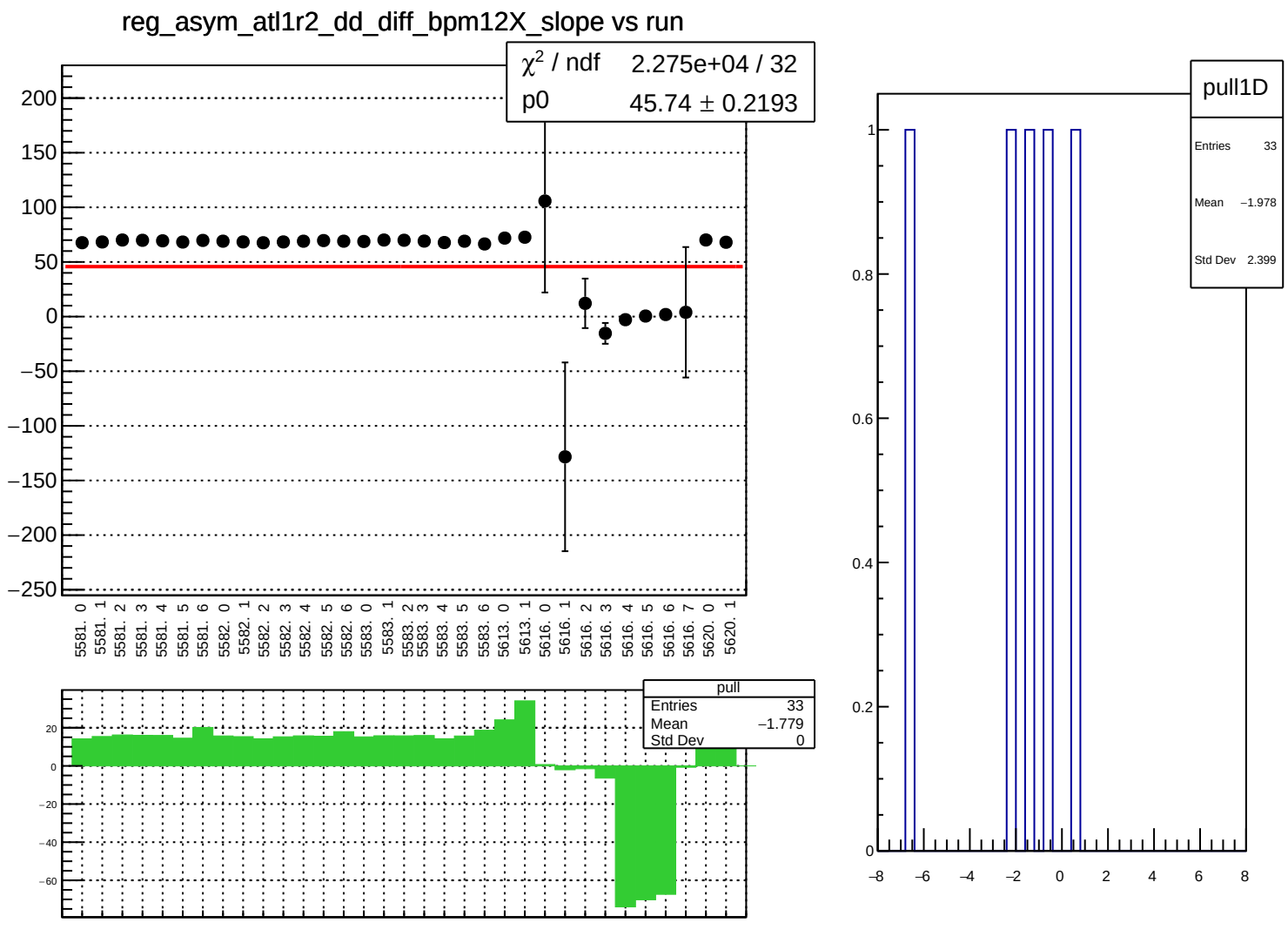

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.73 / 32
p0 −26.03 ± 4.715
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.77
Std Dev 14.59
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1055
Std Dev 0.7253
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

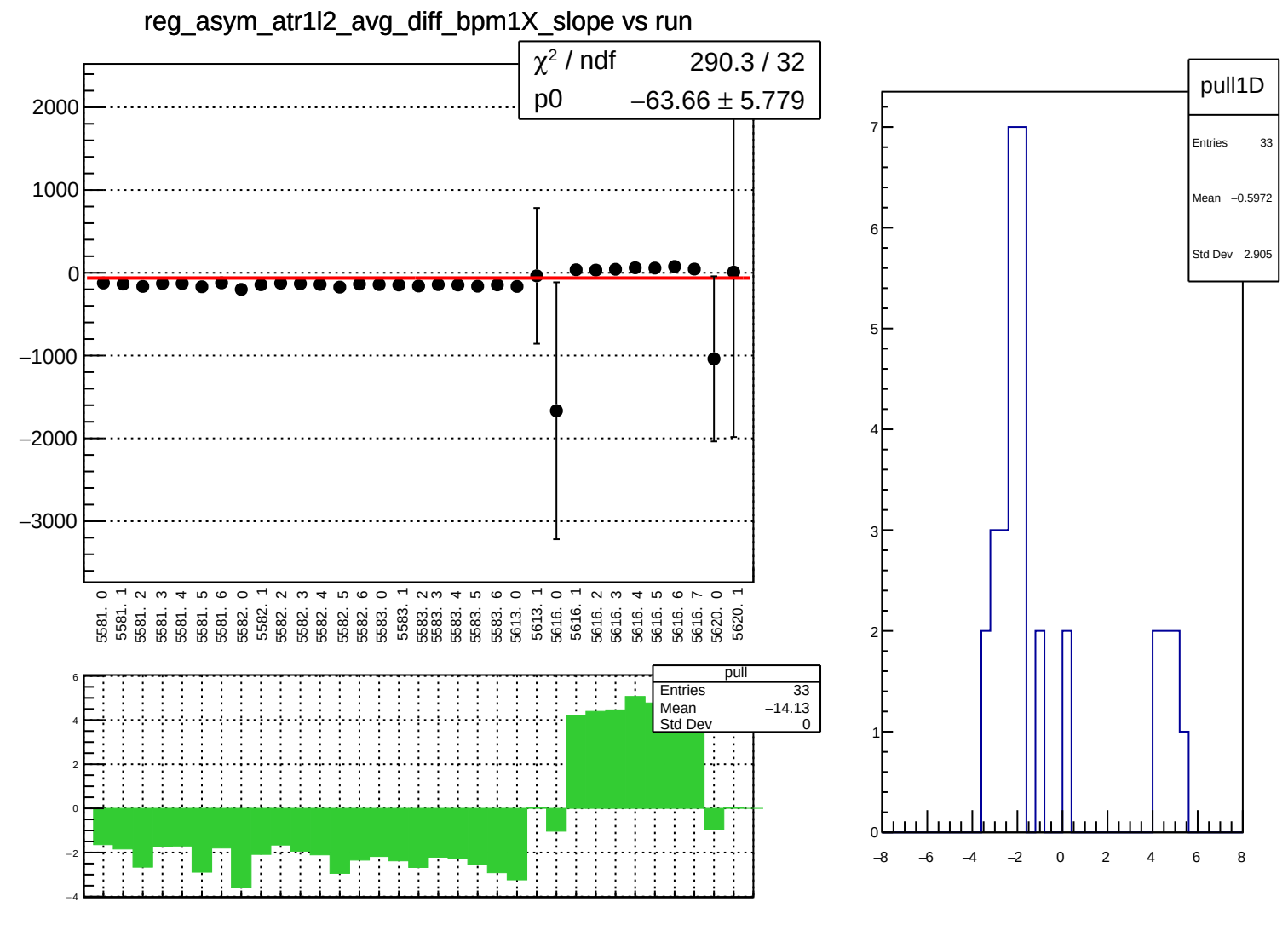

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 163.5 / 32
p0 −105.9 ± 4.564
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 46.08
Std Dev 0
6
4
2
0
−2
−4
−6

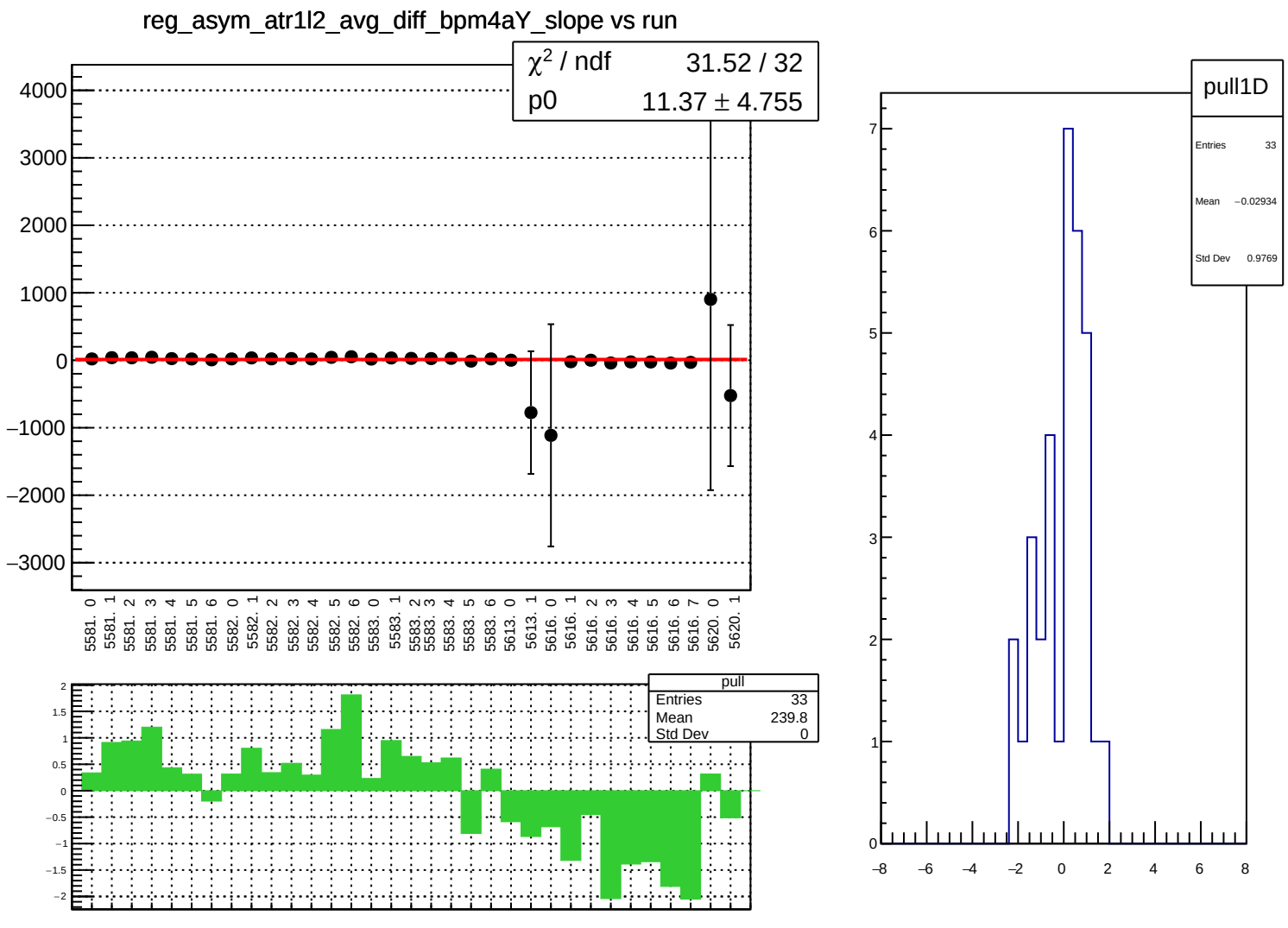

pull1D
Entries 33
Mean 0.05705
Std Dev 2.225
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

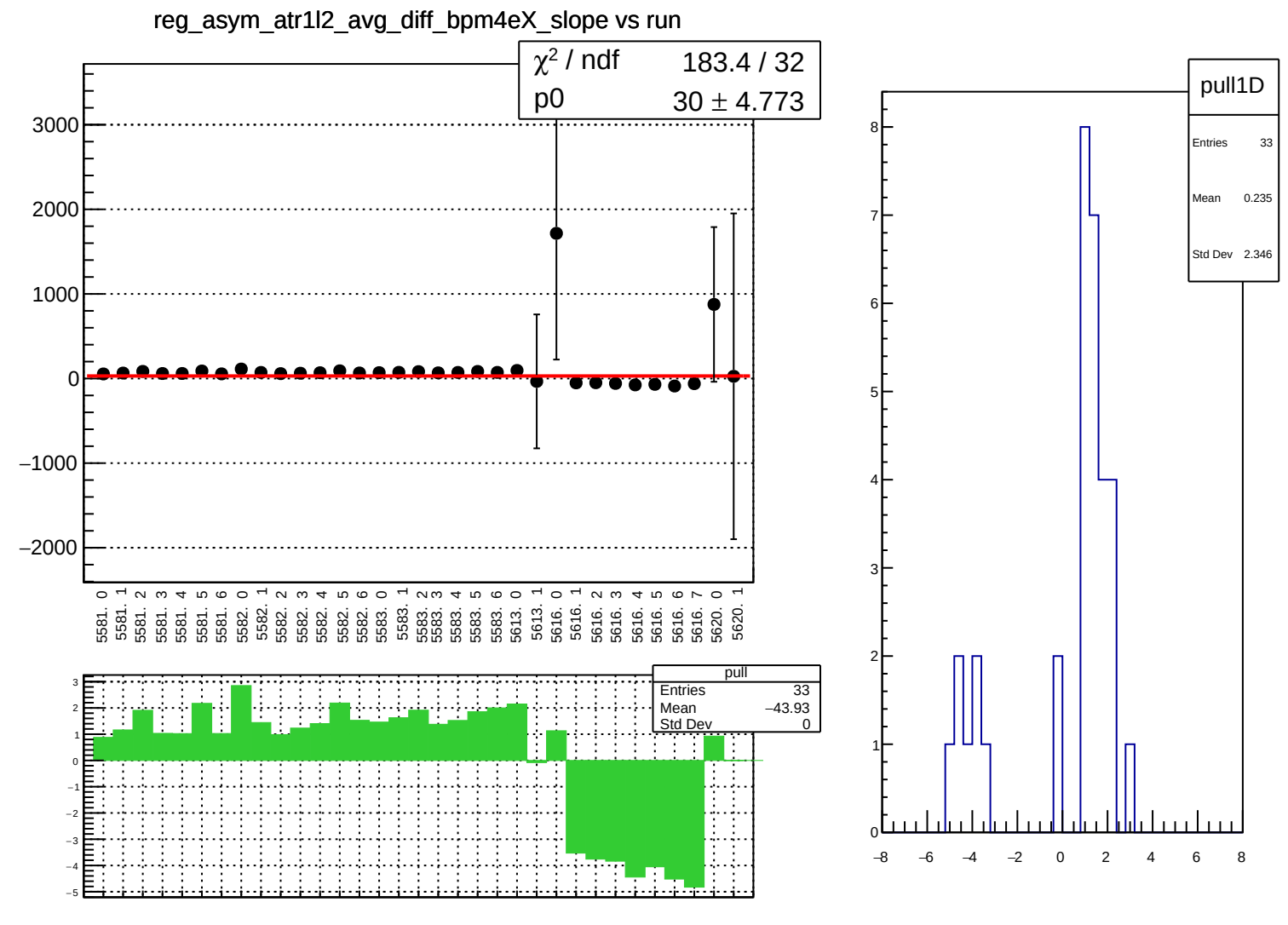

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.29 / 32
p0 −8.681 ± 6.19
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 34.82
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

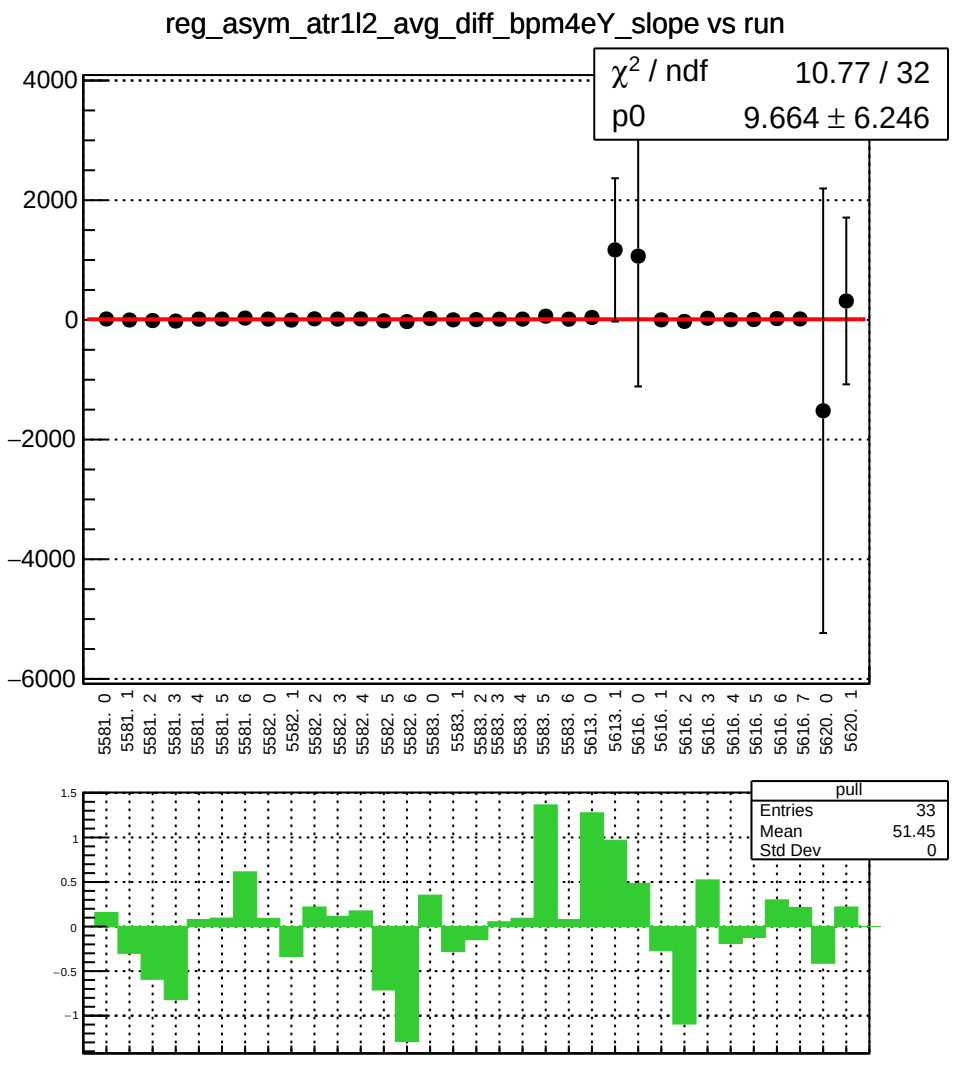

pull1D
Entries 33
Mean 0.1201
Std Dev 0.8495
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

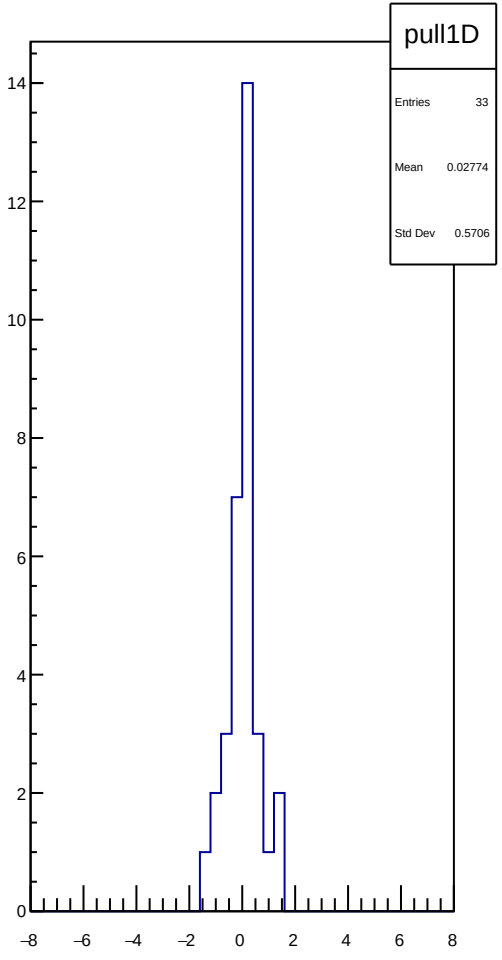

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 2.275e+04 / 32
p0 45.74 ± 0.2193
200
150
100
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −1.779
Std Dev 0
20
0
−20
−40
−60
pull1D
Entries 33
Mean −1.978
Std Dev 2.399
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

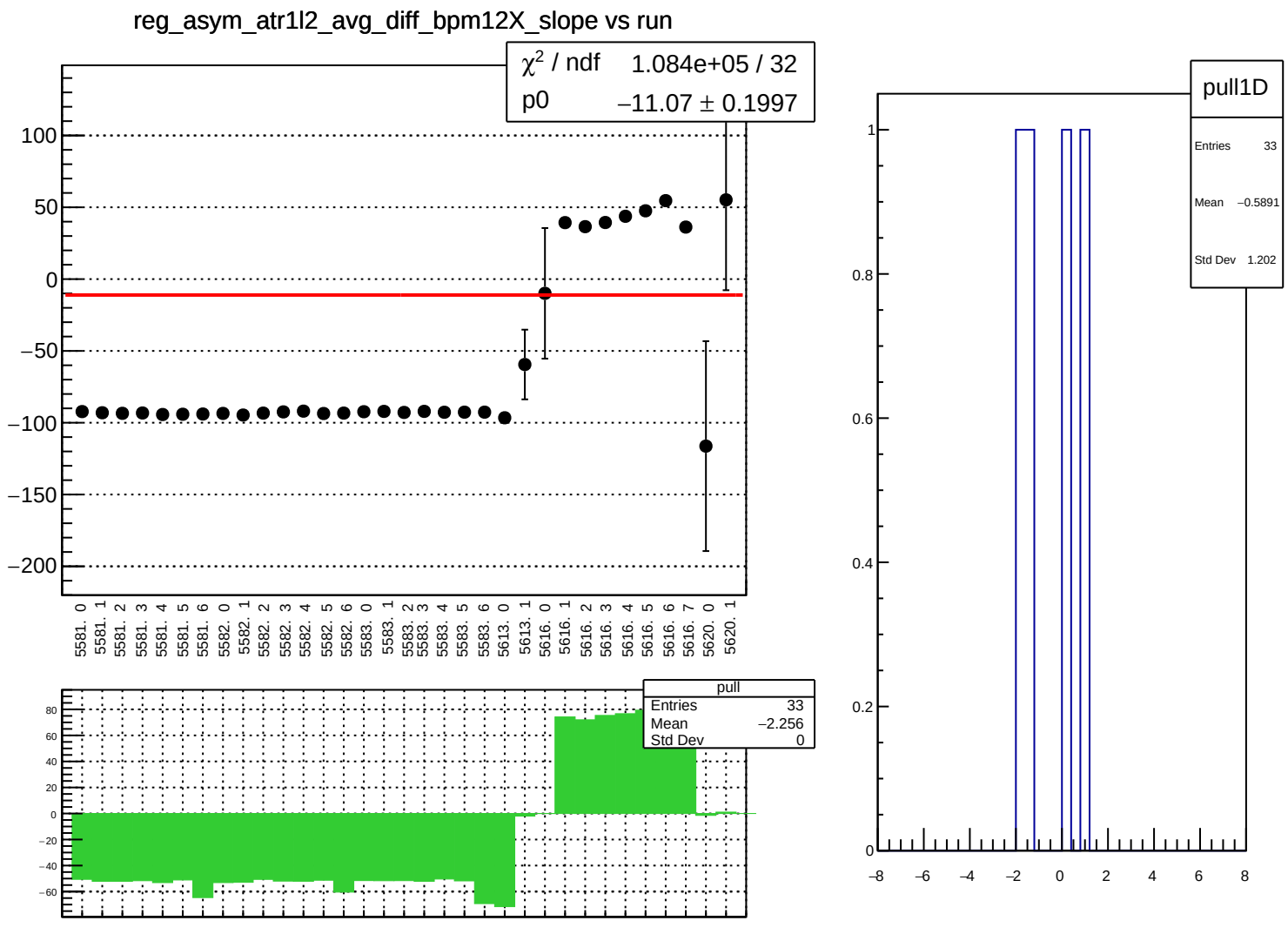

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 290.3 / 32
p0 −63.66 ± 5.779
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −14.13
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 33
Mean −0.5972
Std Dev 2.905
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

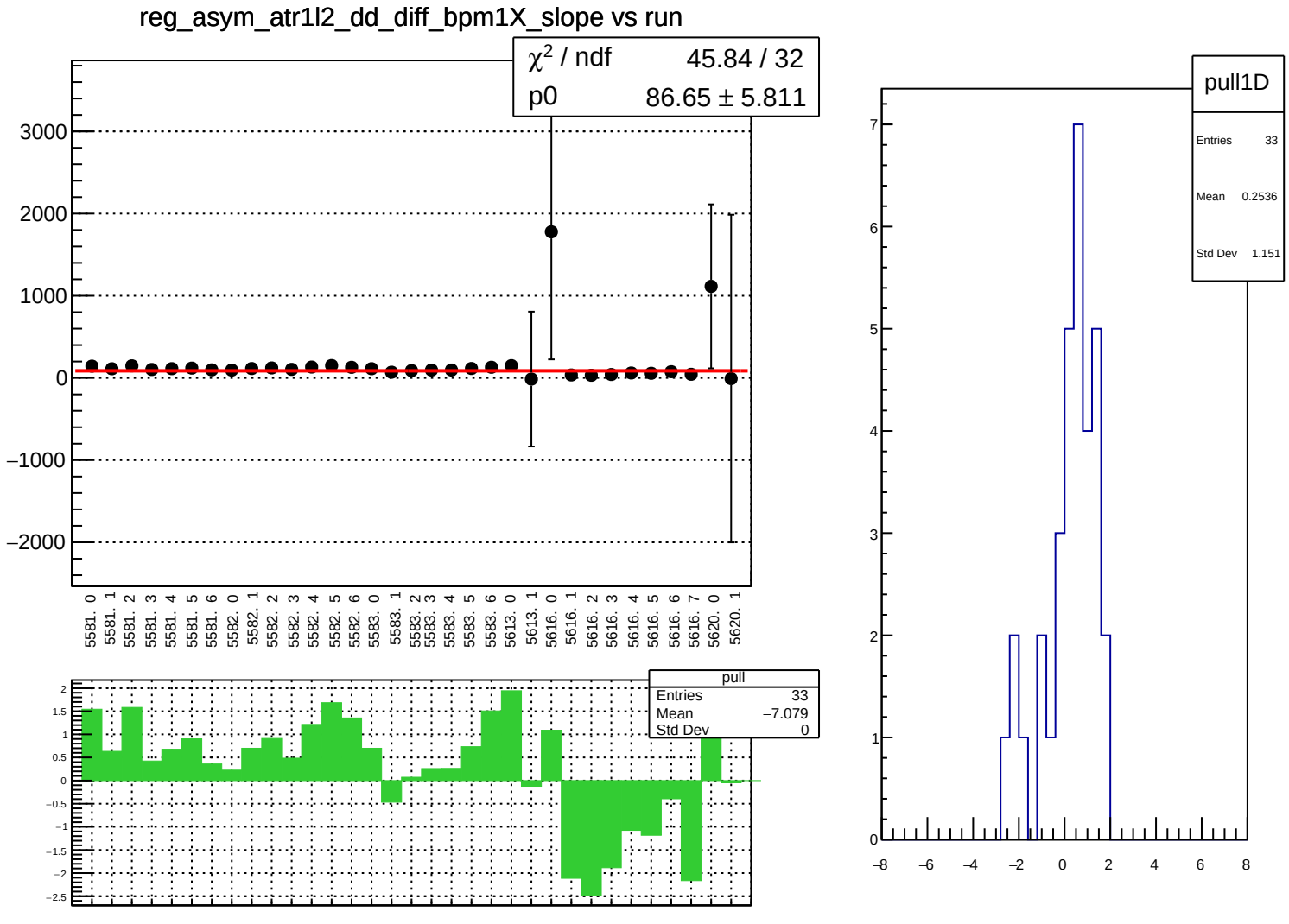

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.52 / 32
p0 11.37 ± 4.755
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 239.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02934
Std Dev 0.9769
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

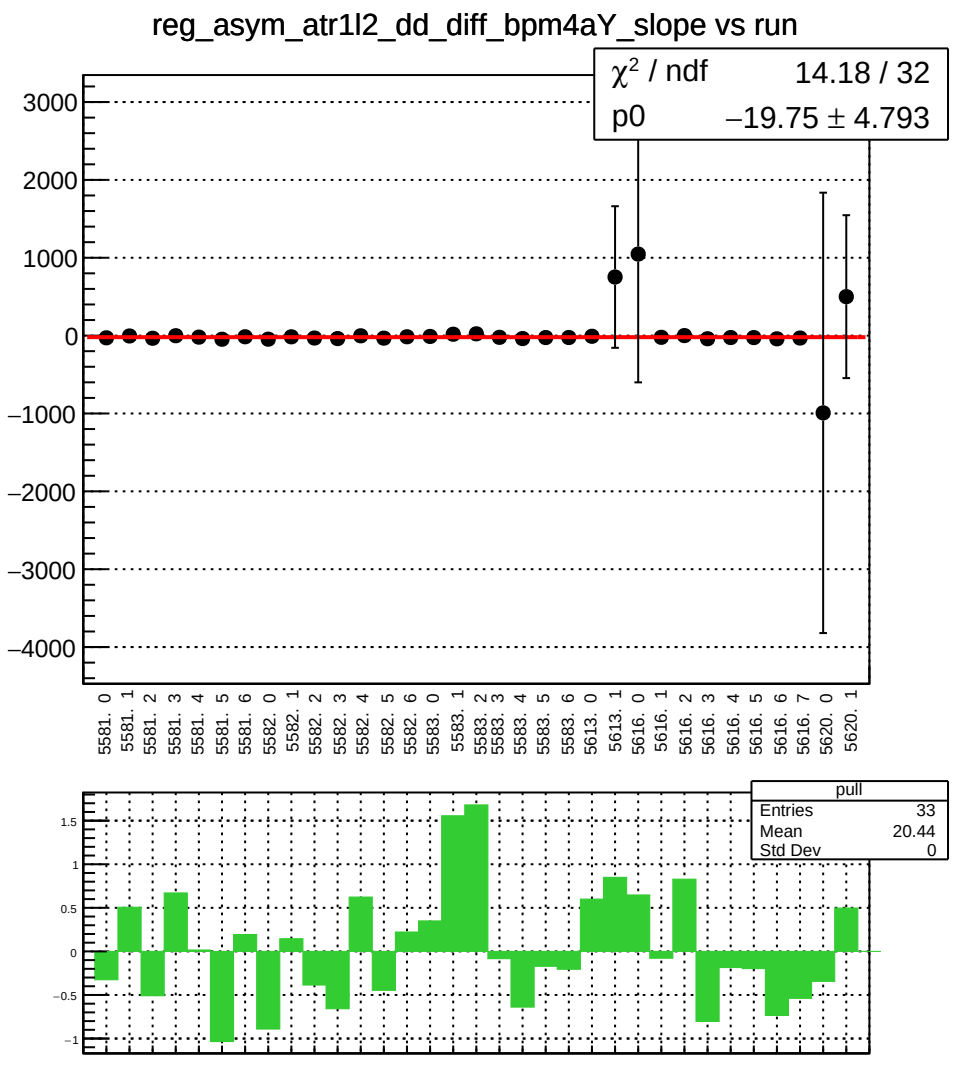

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 183.4 / 32
p0 30 ± 4.773
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −43.93
Std Dev 0
pull1D
Entries 33
Mean 0.235
Std Dev 2.346

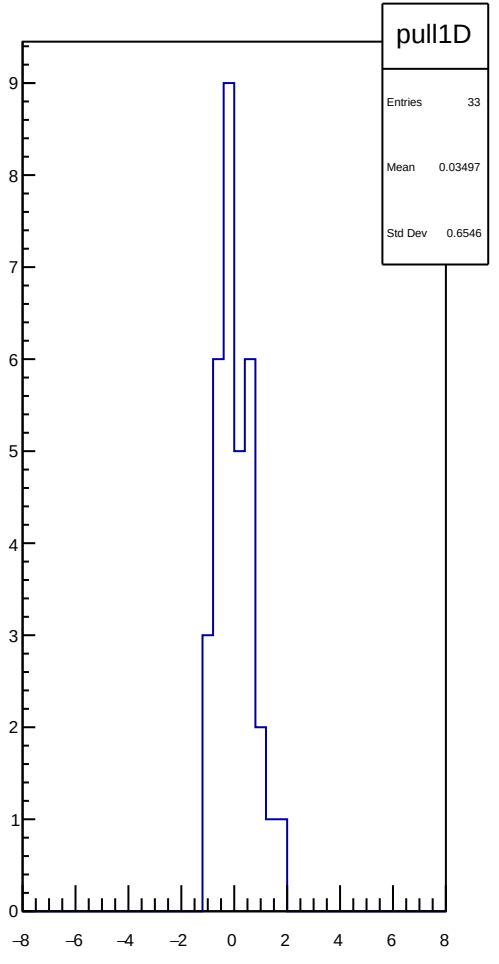

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.77 / 32
p0 9.664 ± 6.246
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 51.45
Std Dev 0
1.5
1
0.5
0
−0.5
−1

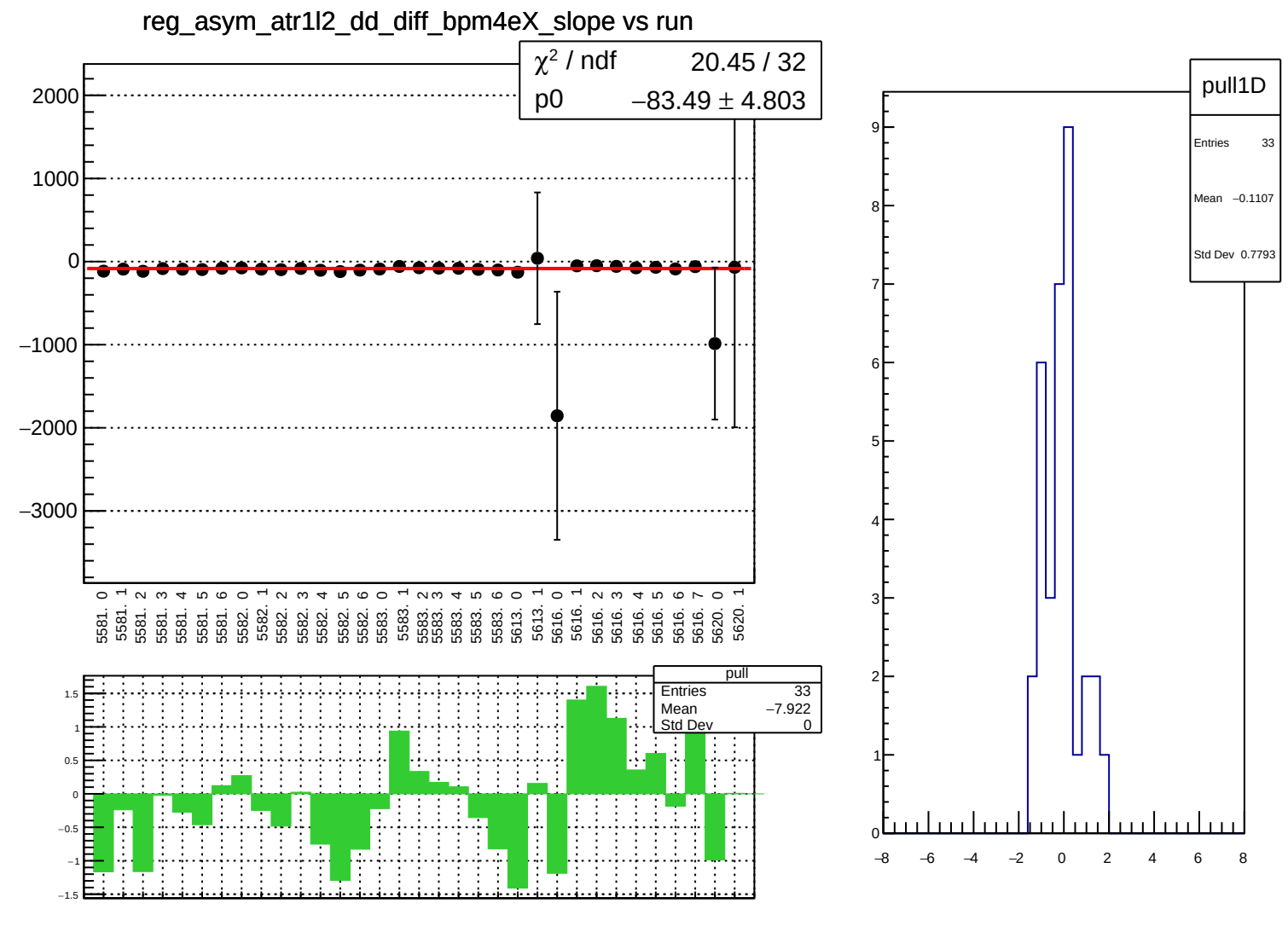

pull1D
Entries 33
Mean 0.02774
Std Dev 0.5706
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

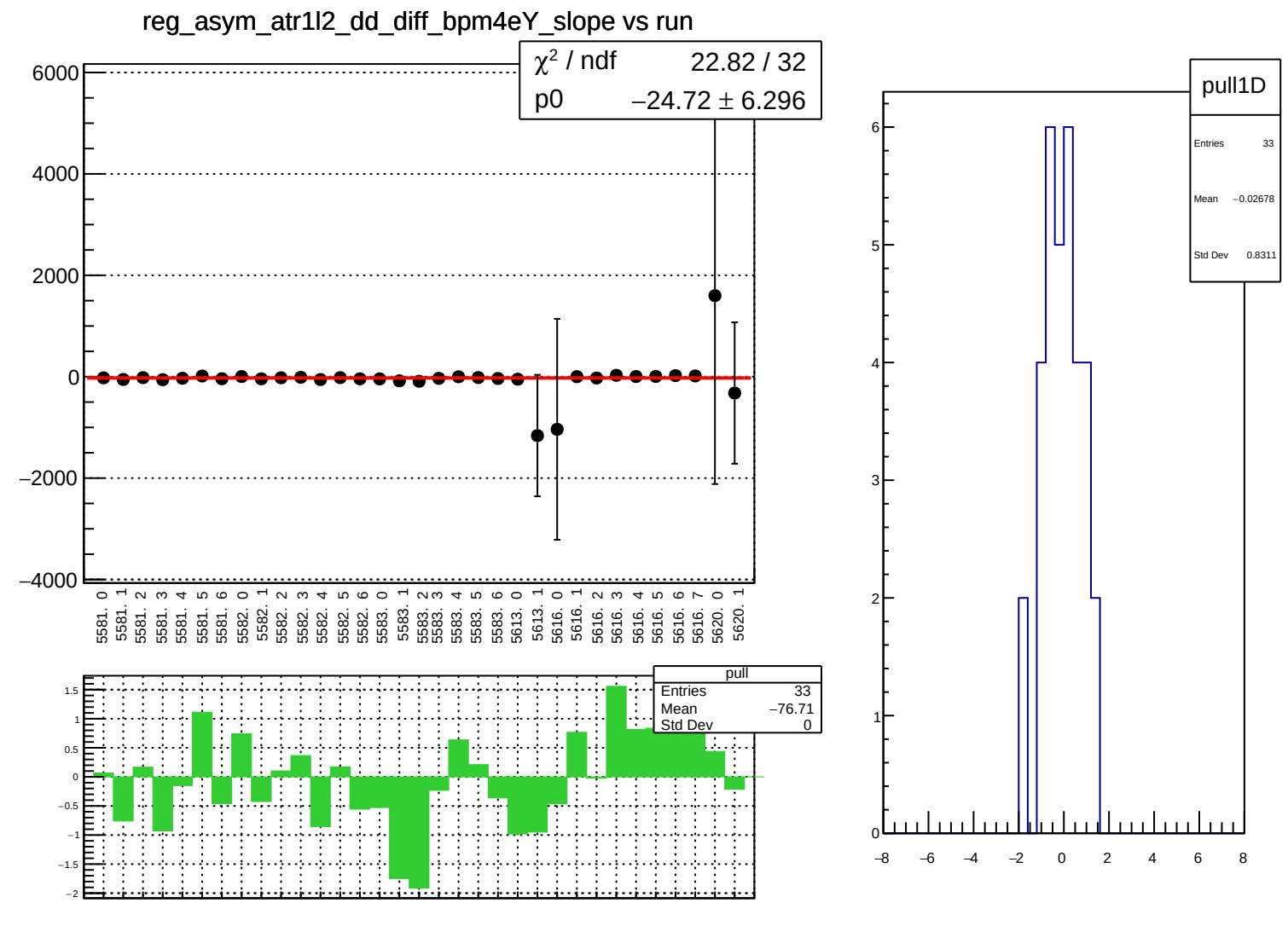

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 1.084e+05 / 32
p0 −11.07 ± 0.1997
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2.256
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 33
Mean −0.5891
Std Dev 1.202
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

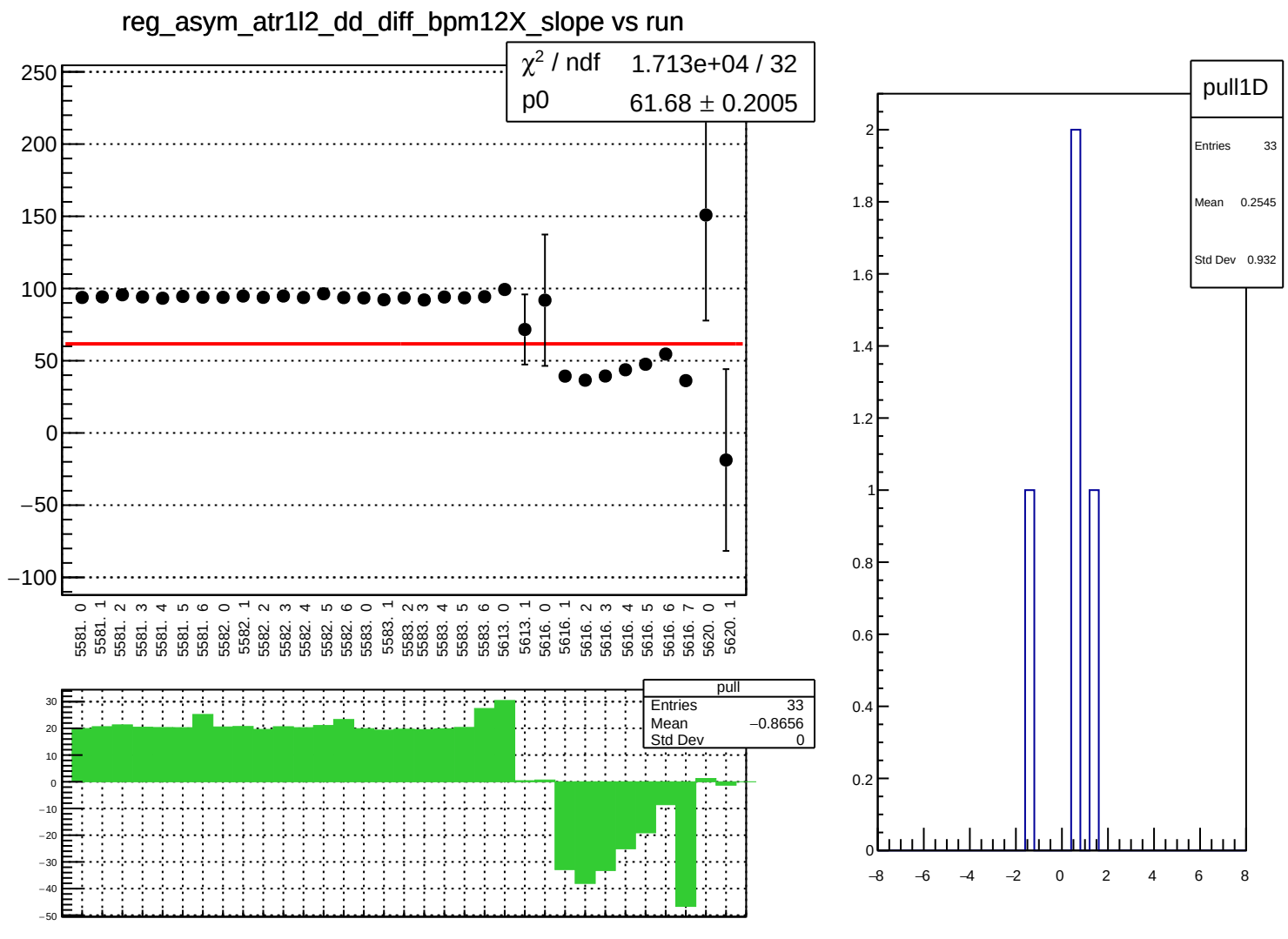

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 45.84 / 32
p0 86.65 ± 5.811
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −7.079
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.2536
Std Dev 1.151
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

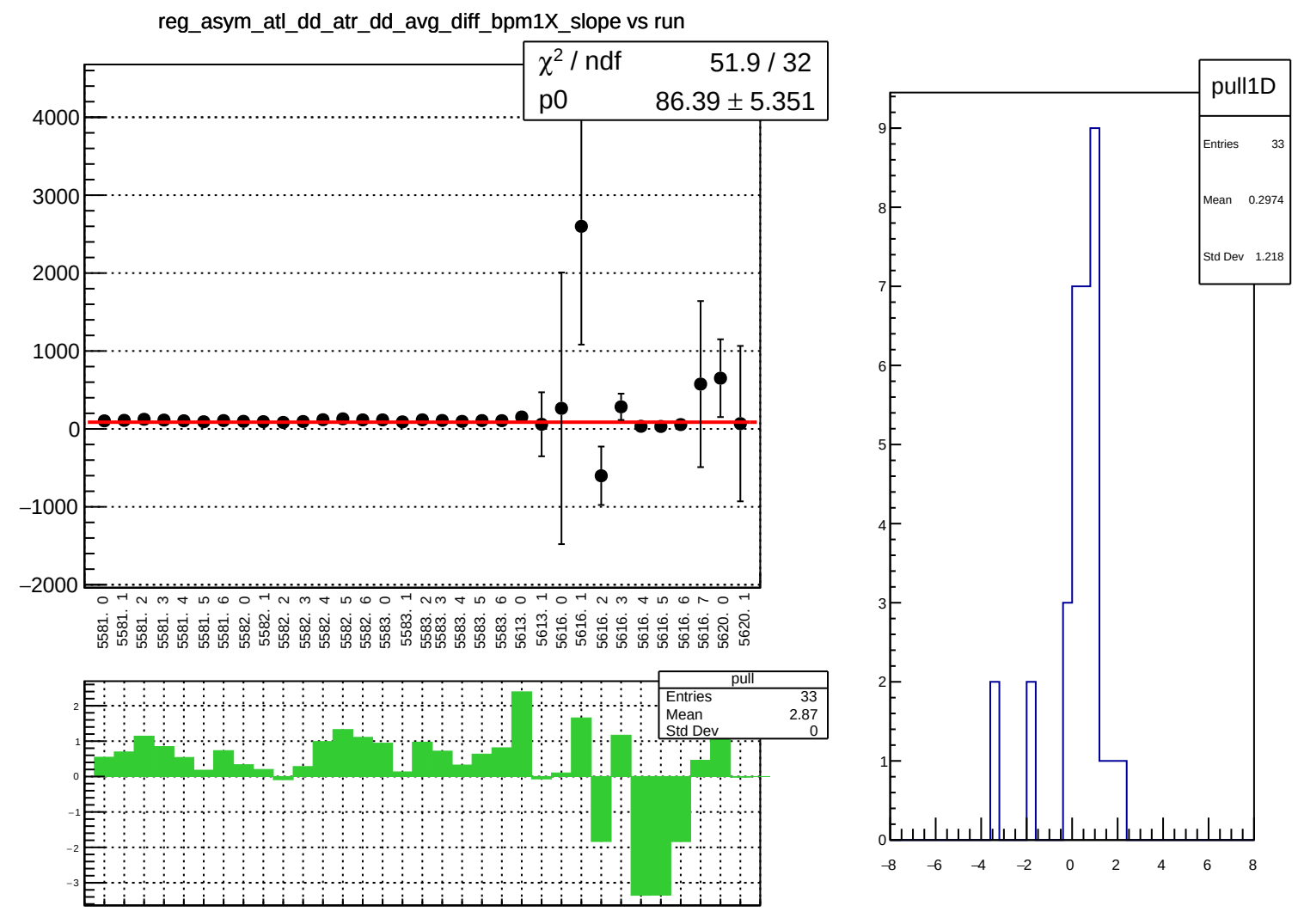

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.18 / 32
p0 −19.75 ± 4.793
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 20.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1

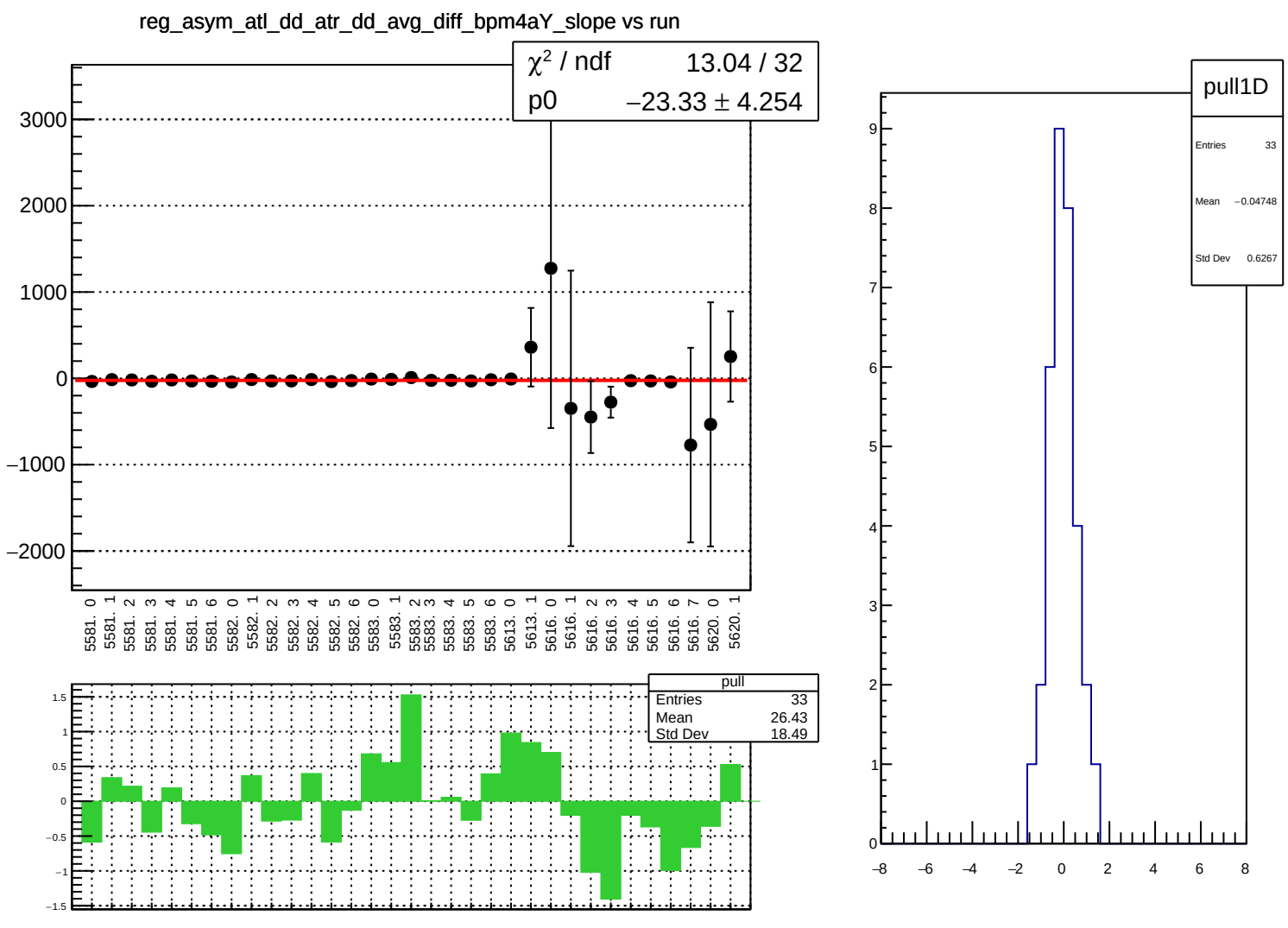

pull1D
Entries 33
Mean 0.03497
Std Dev 0.6546
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

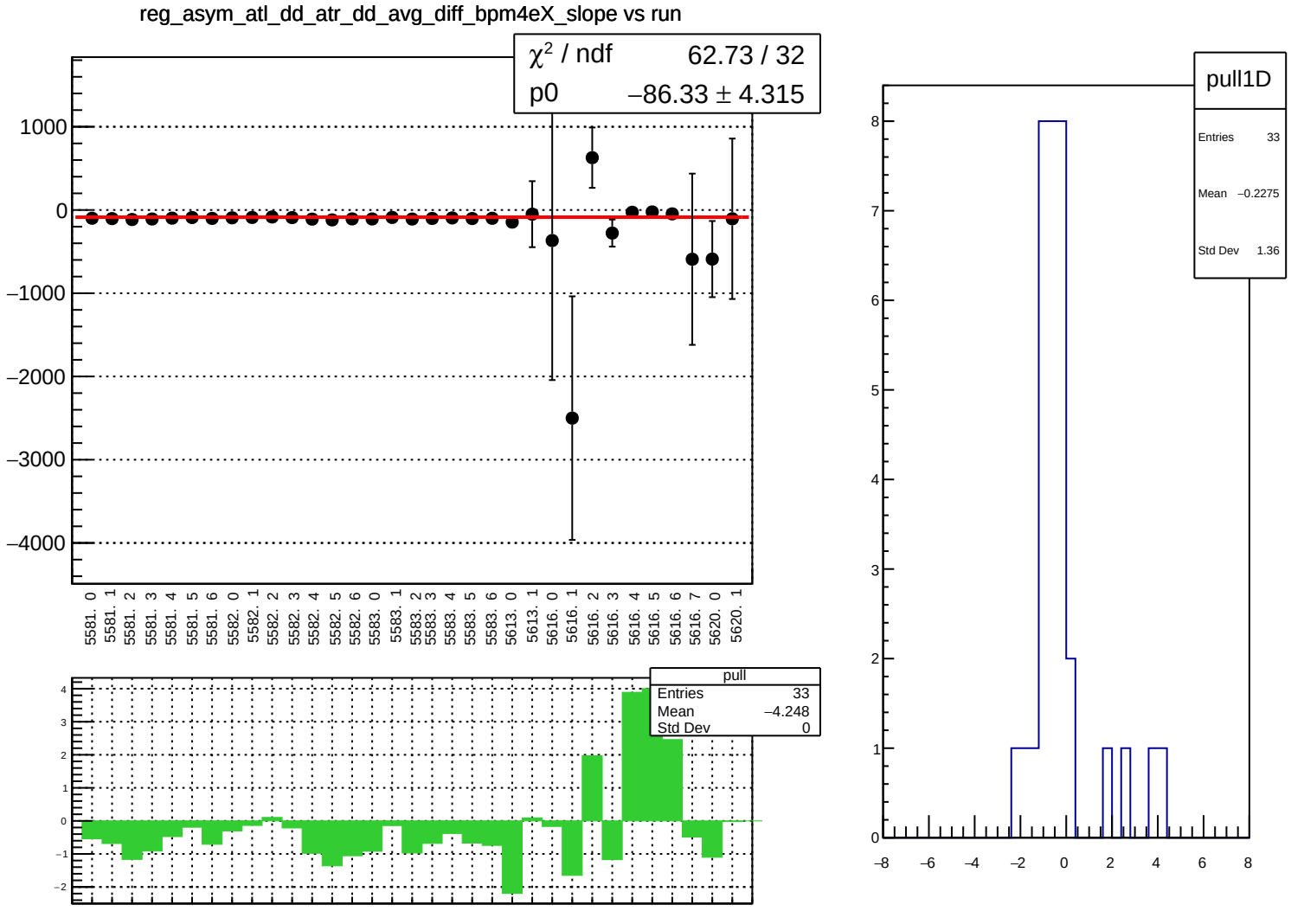

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.45 / 32
p0 −83.49 ± 4.803
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −7.922
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1107
Std Dev 0.7793
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

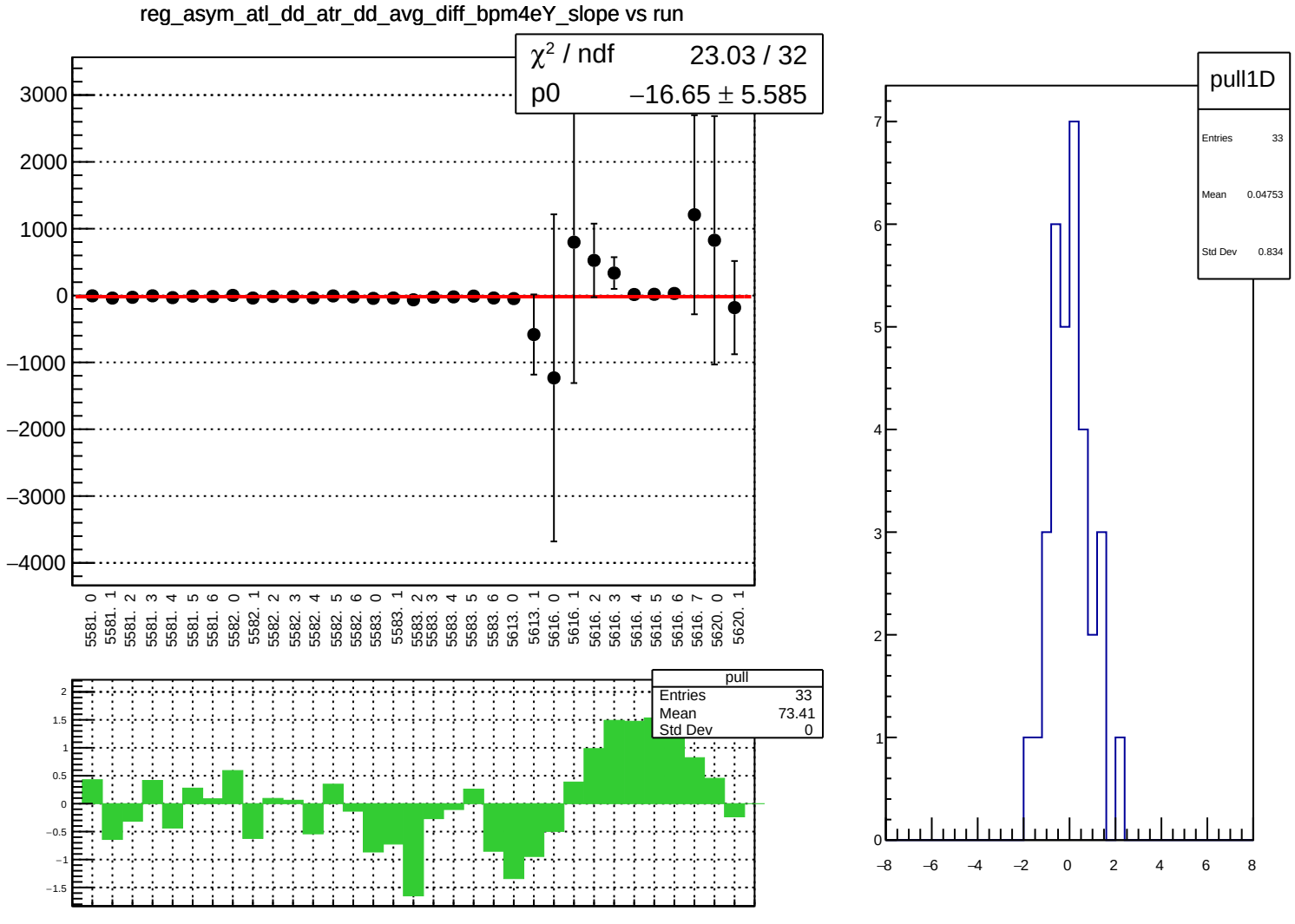

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.82 / 32
p0 −24.72 ± 6.296
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −76.71
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.02678
Std Dev 0.8311
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

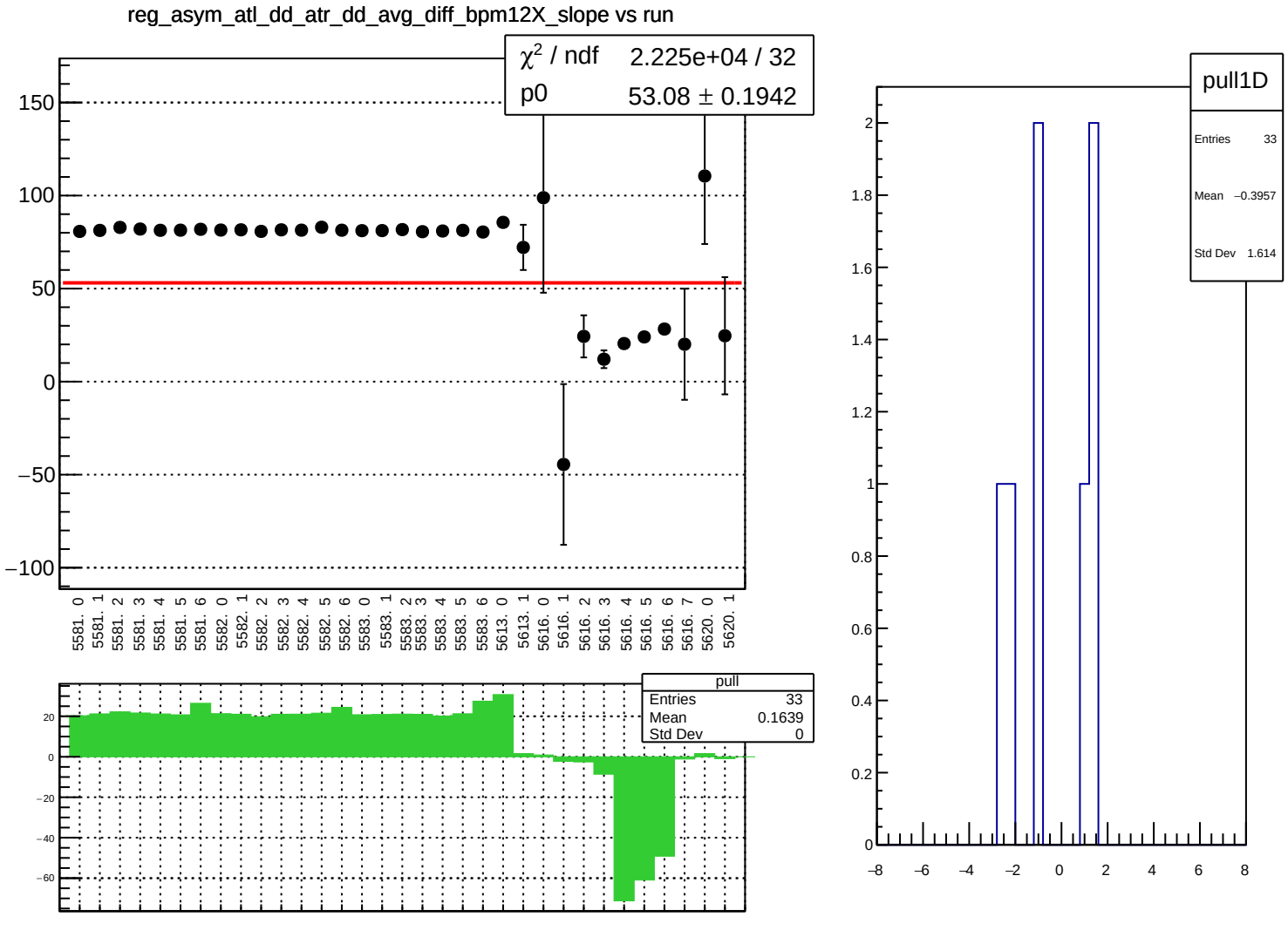

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 1.713e+04 / 32
p0 61.68 ± 0.2005
250
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.8656
Std Dev 0
30
20
10
0
−10
−20
−30
−40
−50
pull1D
Entries 33
Mean 0.2545
Std Dev 0.932
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

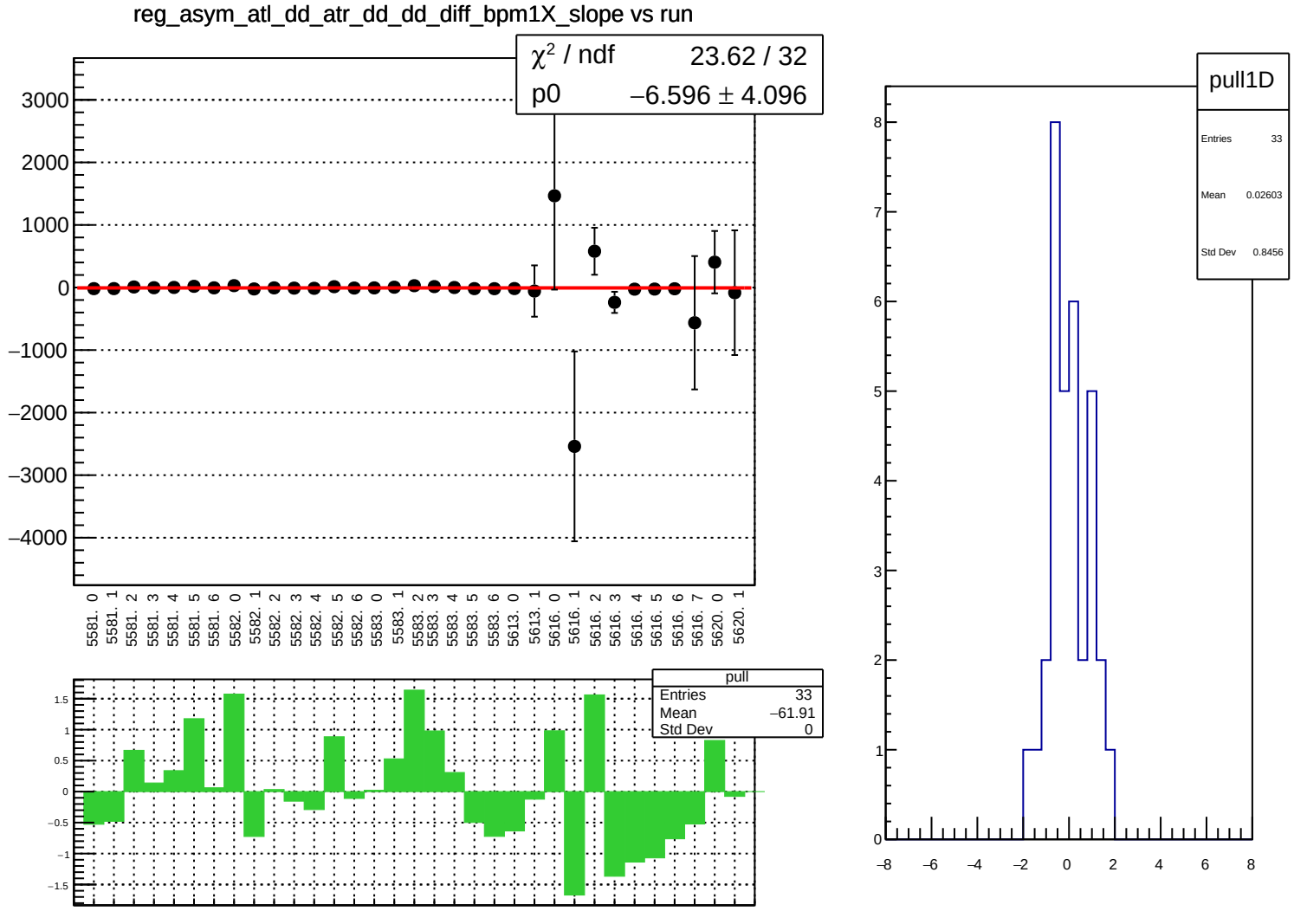

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 51.9 / 32
p0 86.39 ± 5.351
4000
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2.87
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.2974
Std Dev 1.218
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

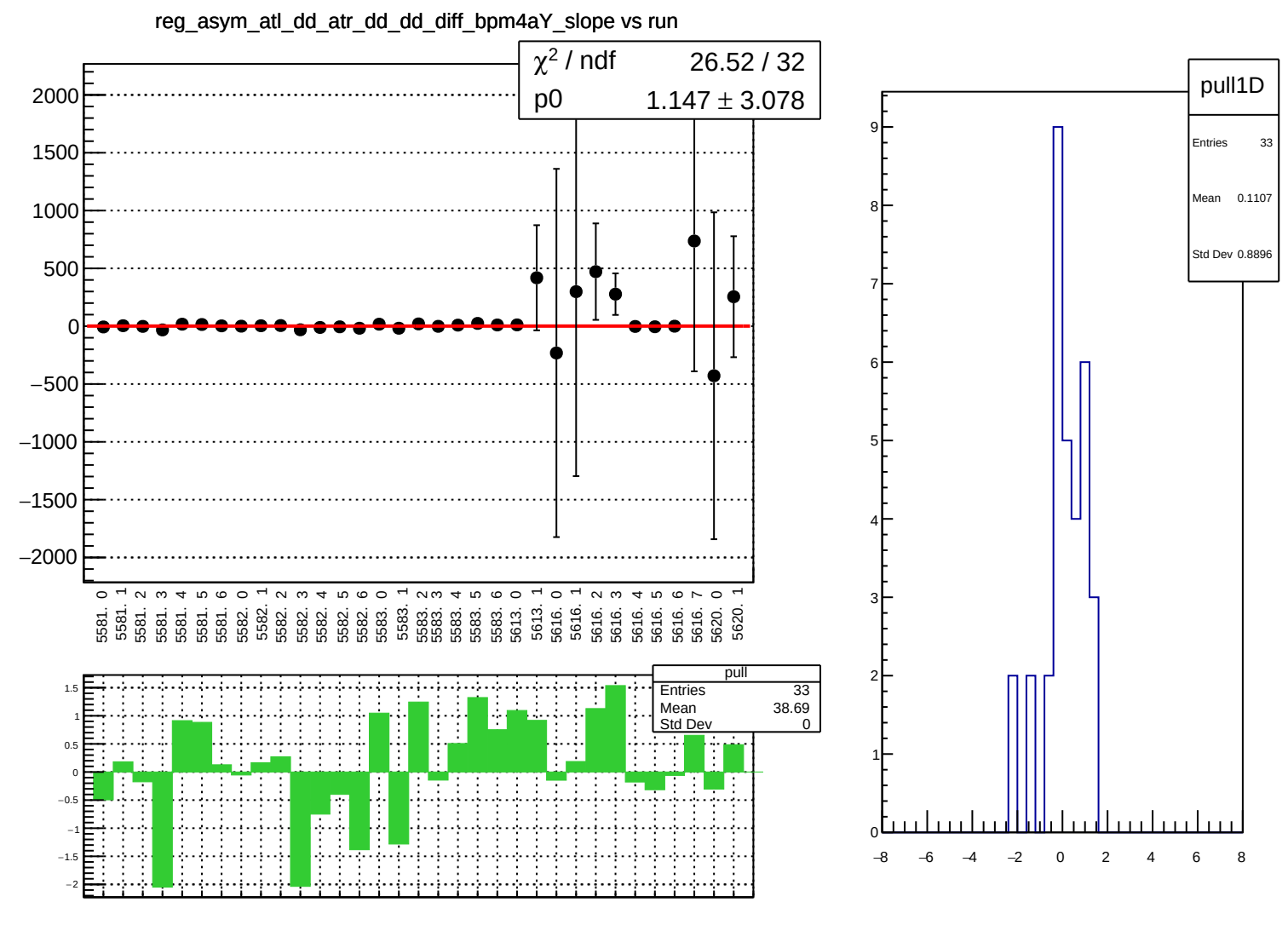

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.04 / 32
p0 −23.33 ± 4.254
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.43
Std Dev 18.49
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.04748
Std Dev 0.6267
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

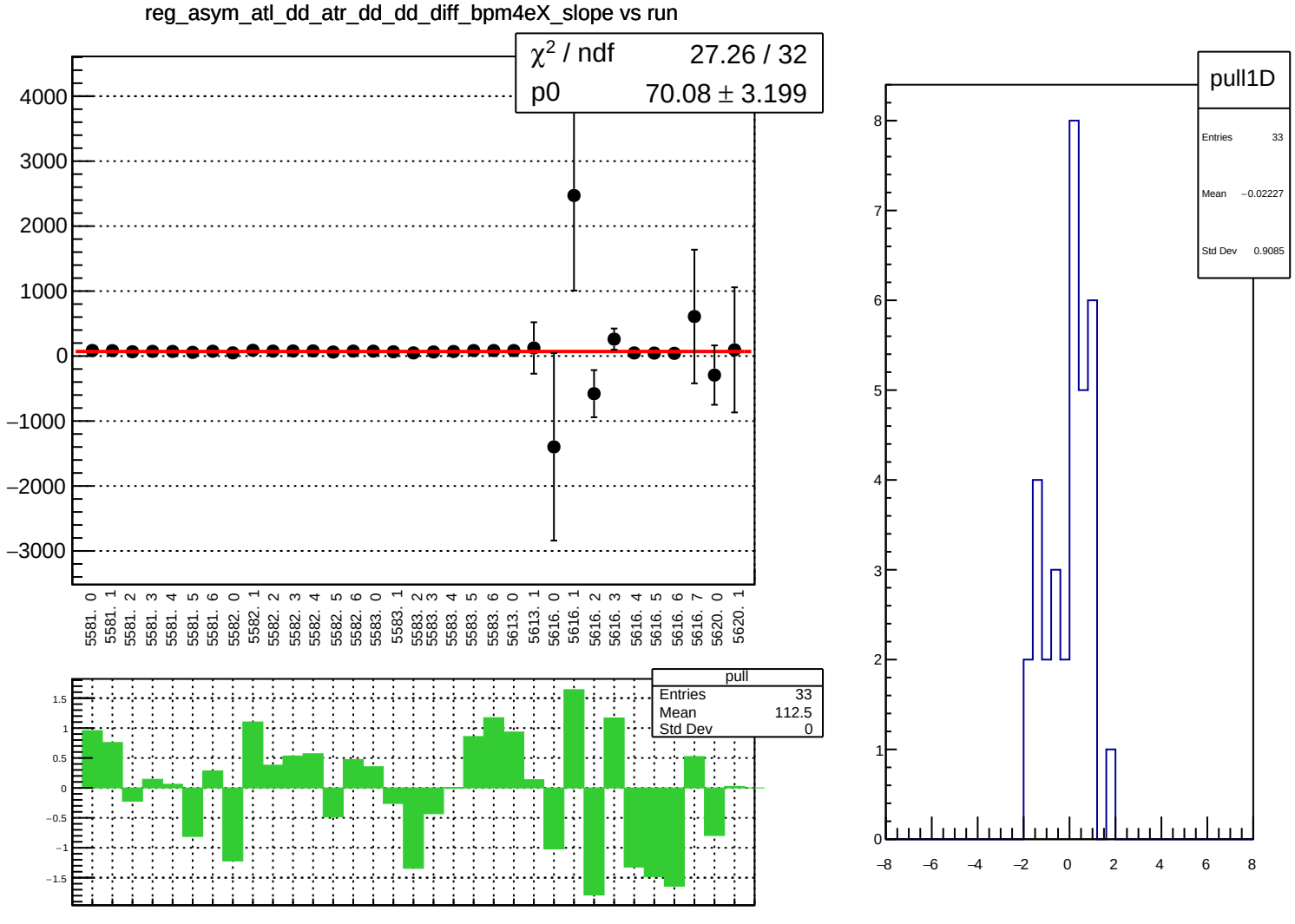

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 62.73 / 32
p0 −86.33 ± 4.315
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −4.248
Std Dev 0
pull1D
Entries 33
Mean −0.2275
Std Dev 1.36

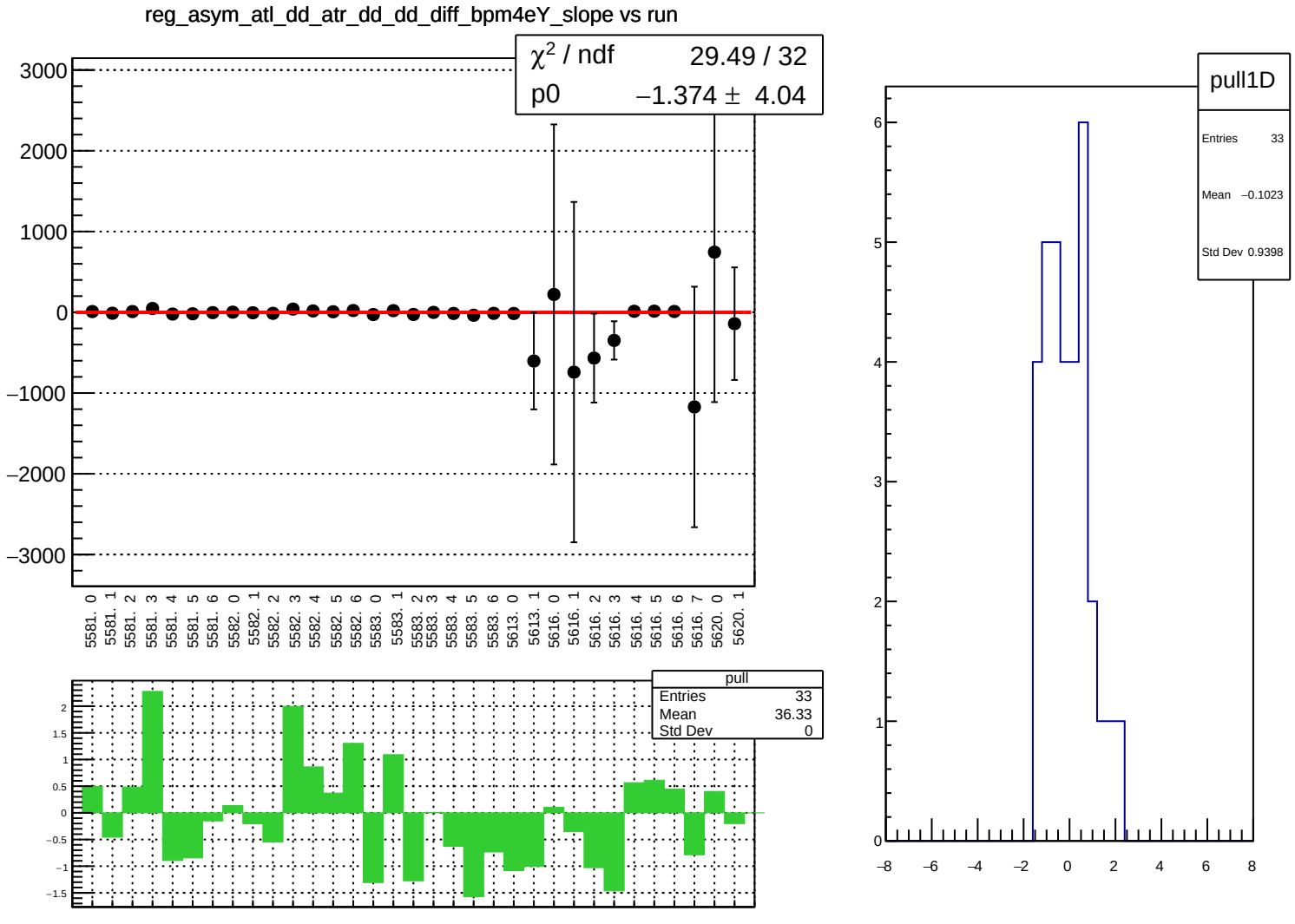

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.03 / 32
p0 −16.65 ± 5.585
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 73.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.04753
Std Dev 0.834
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

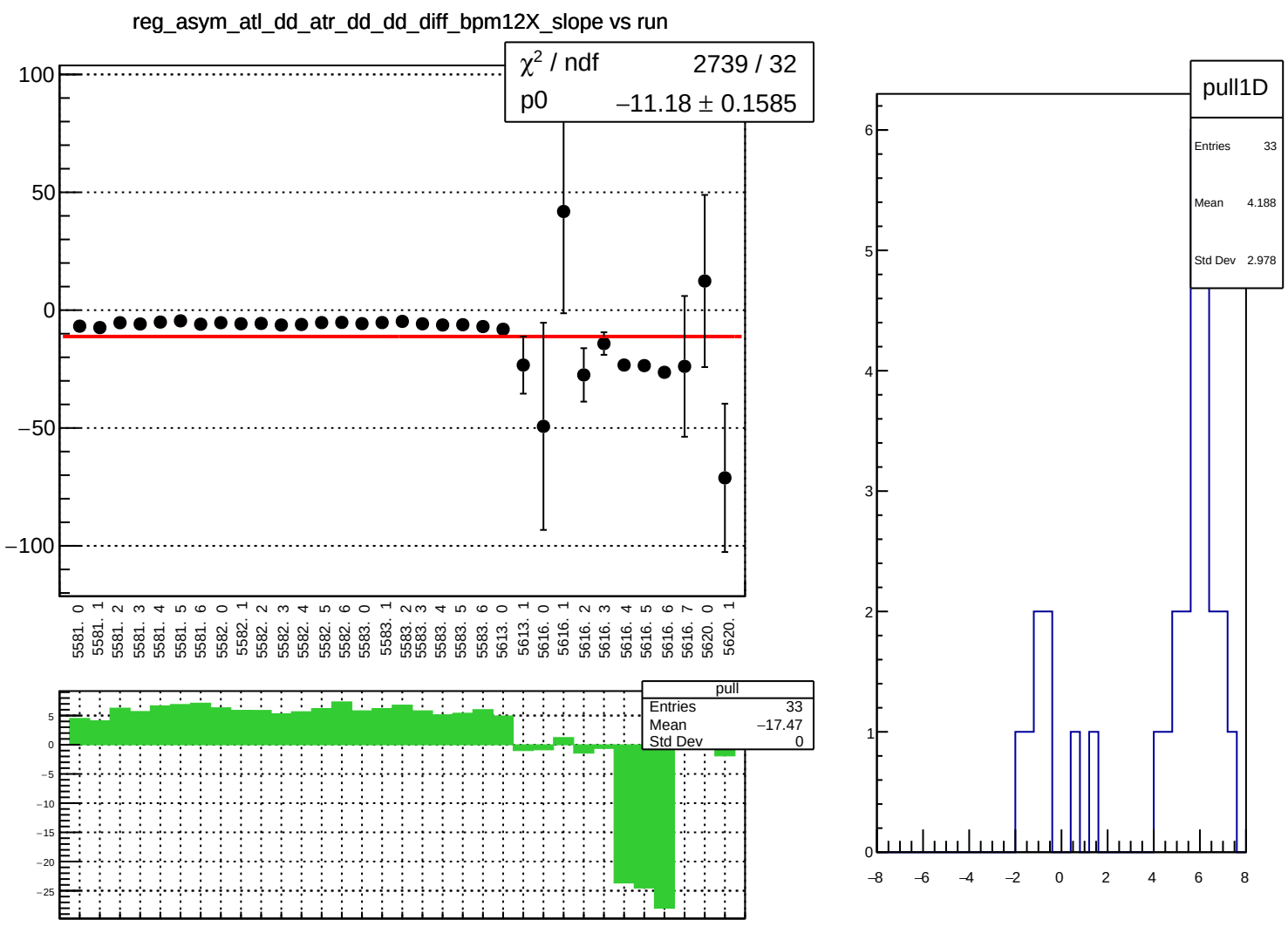

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 2.225e+04 / 32
p0 53.08 ± 0.1942
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 0.1639
Std Dev 0
20
0
−20
−40
−60
pull1D
Entries 33
Mean −0.3957
Std Dev 1.614
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

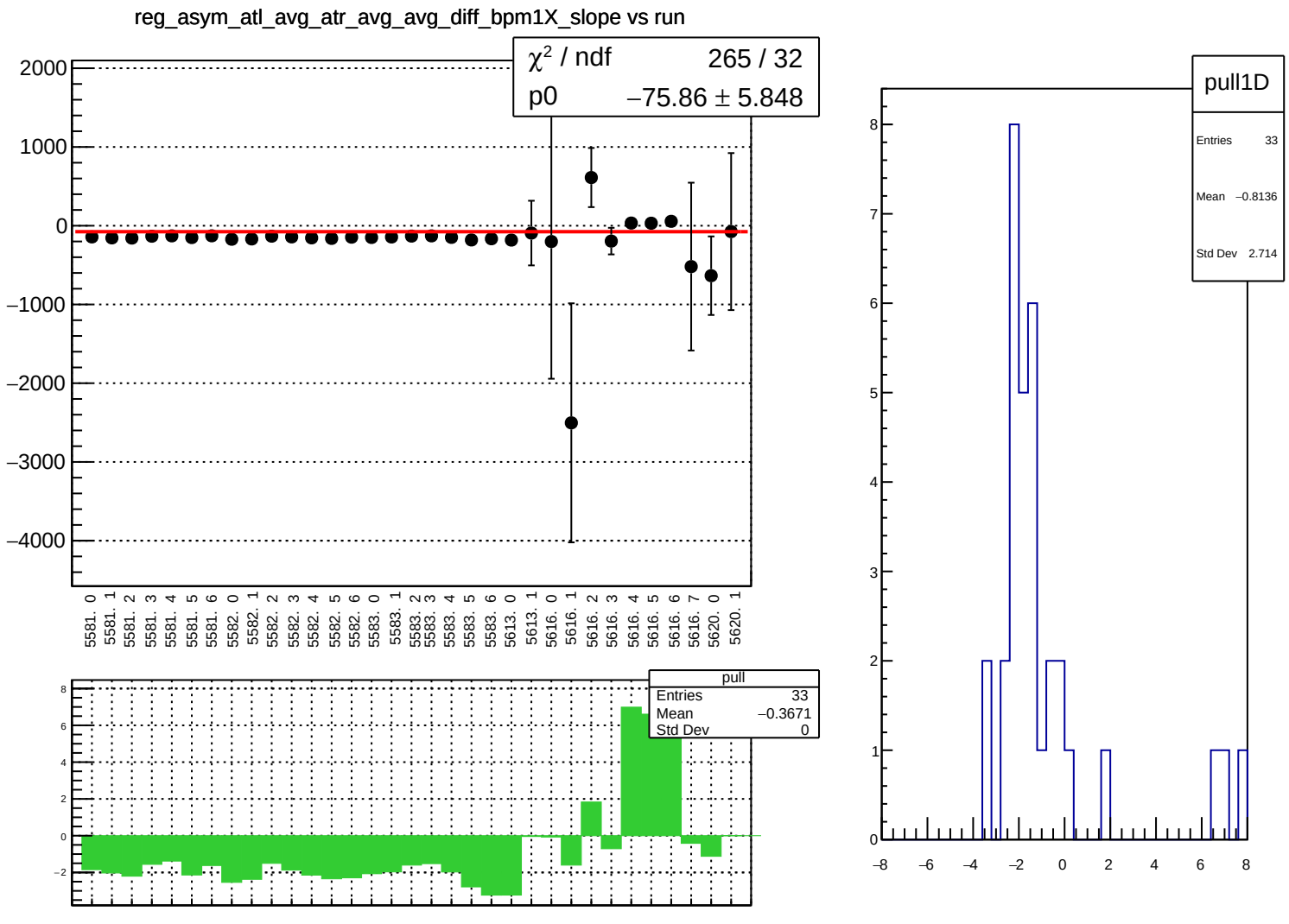

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 23.62 / 32
p0 −6.596 ± 4.096
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −61.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.02603
Std Dev 0.8456
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

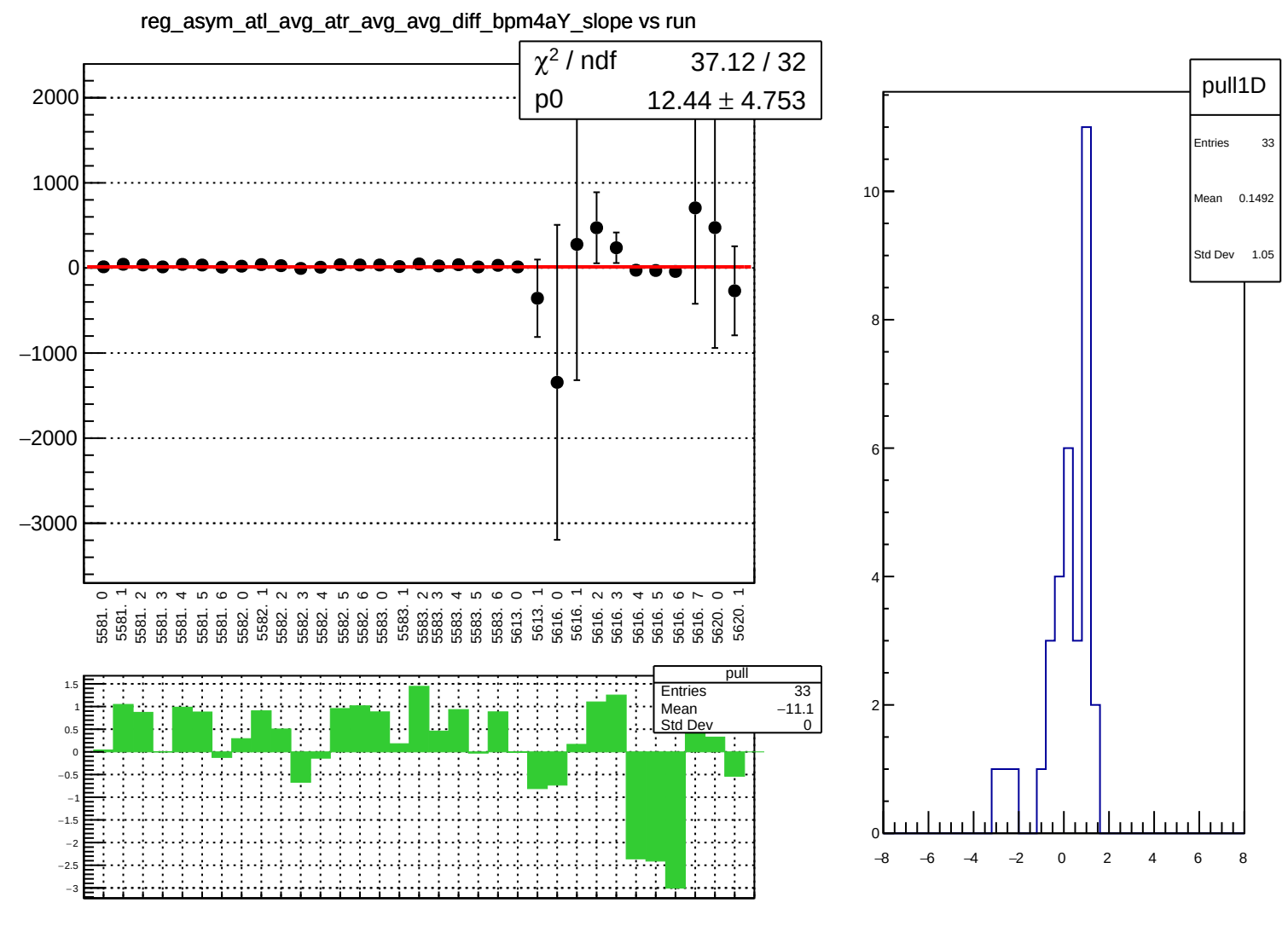

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.52 / 32
p0 1.147 ± 3.078
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.1107
Std Dev 0.8896
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

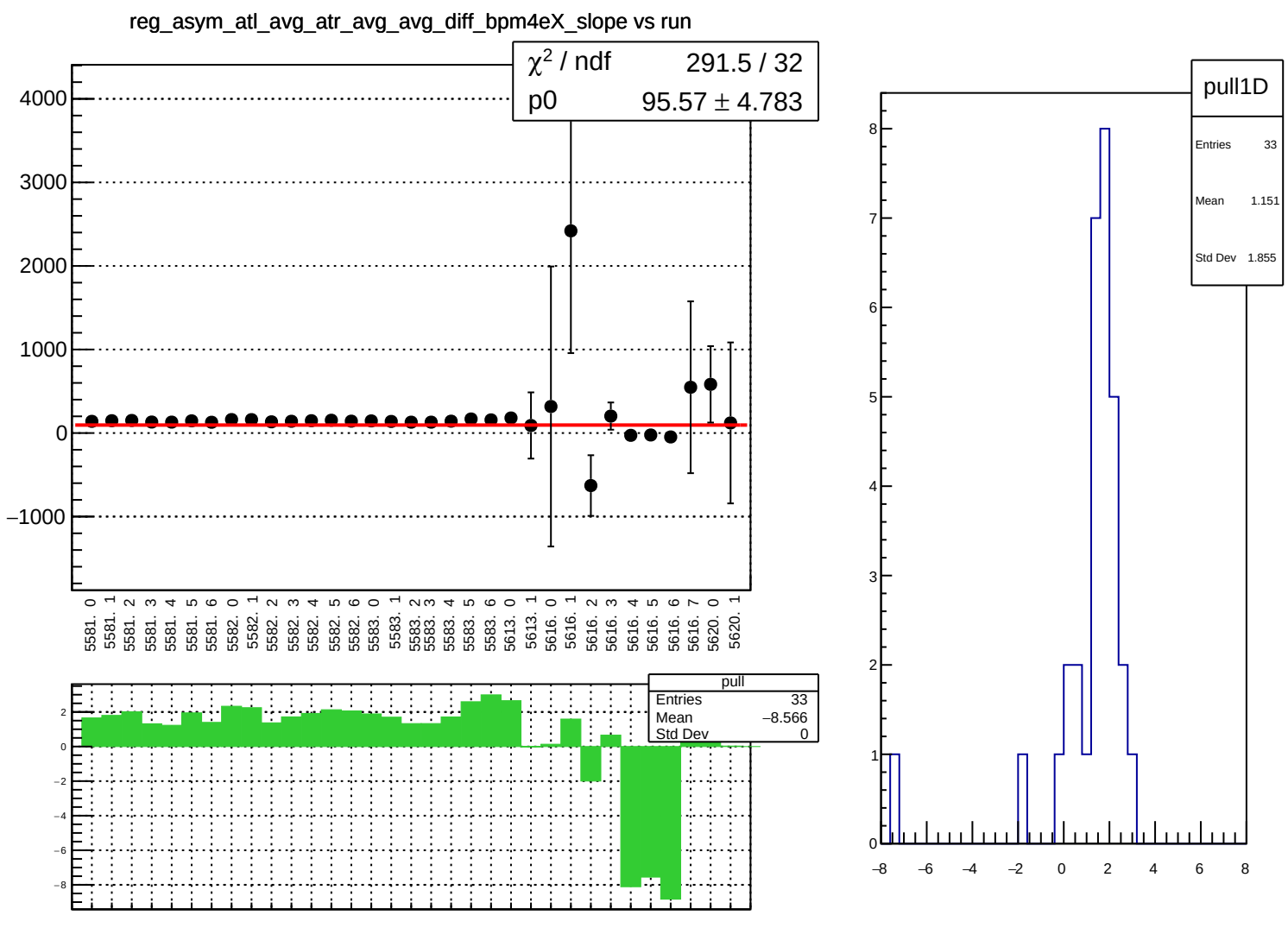

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.26 / 32
p0 70.08 ± 3.199
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 112.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.02227
Std Dev 0.9085
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

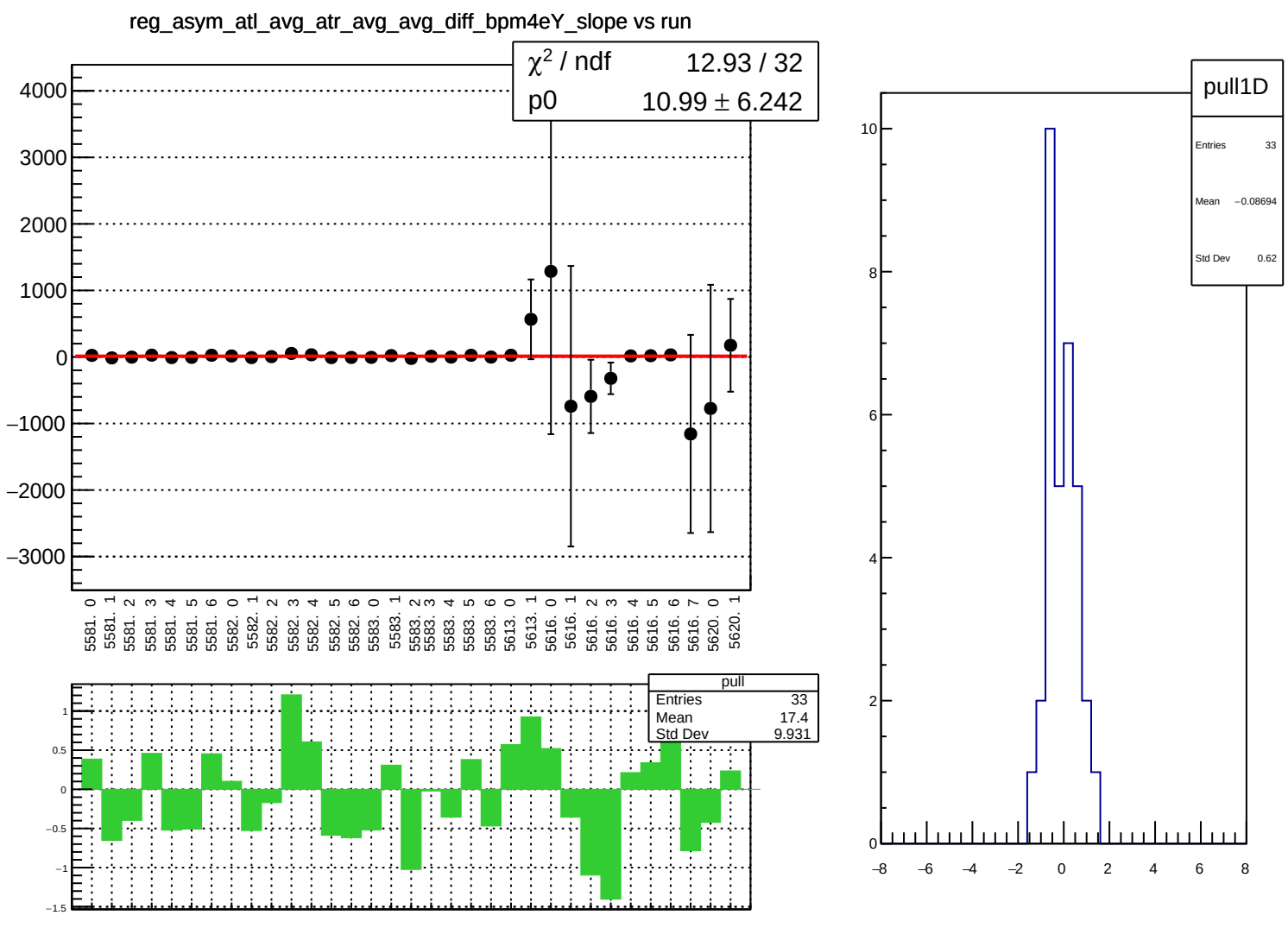

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.49 / 32
p0 −1.374 ± 4.04
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1023
Std Dev 0.9398
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

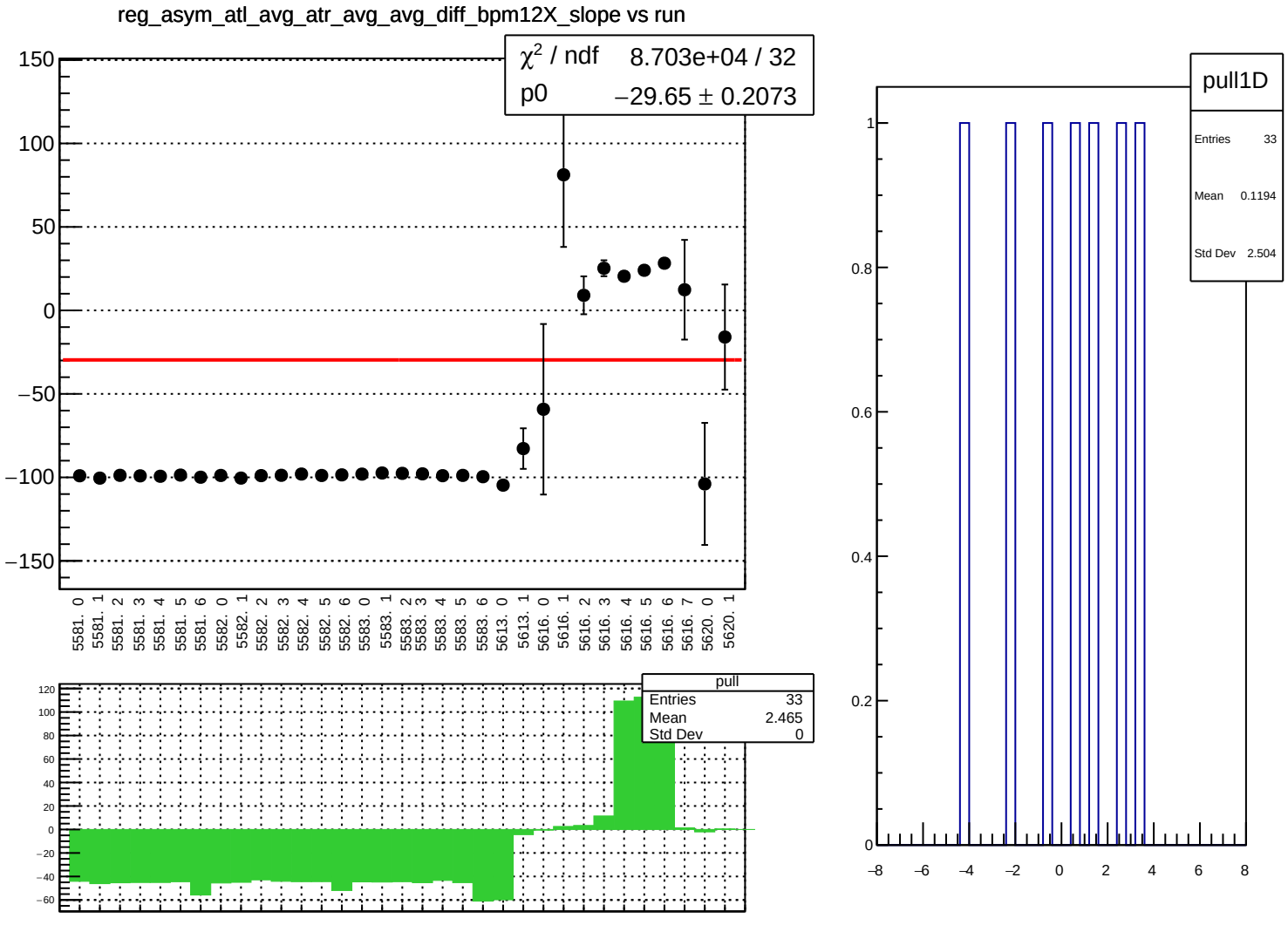

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 2739 / 32
p0 −11.18 ± 0.1585
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −17.47
Std Dev 0
5
0
−5
−10
−15
−20
−25
pull1D
Entries 33
Mean 4.188
Std Dev 2.978
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

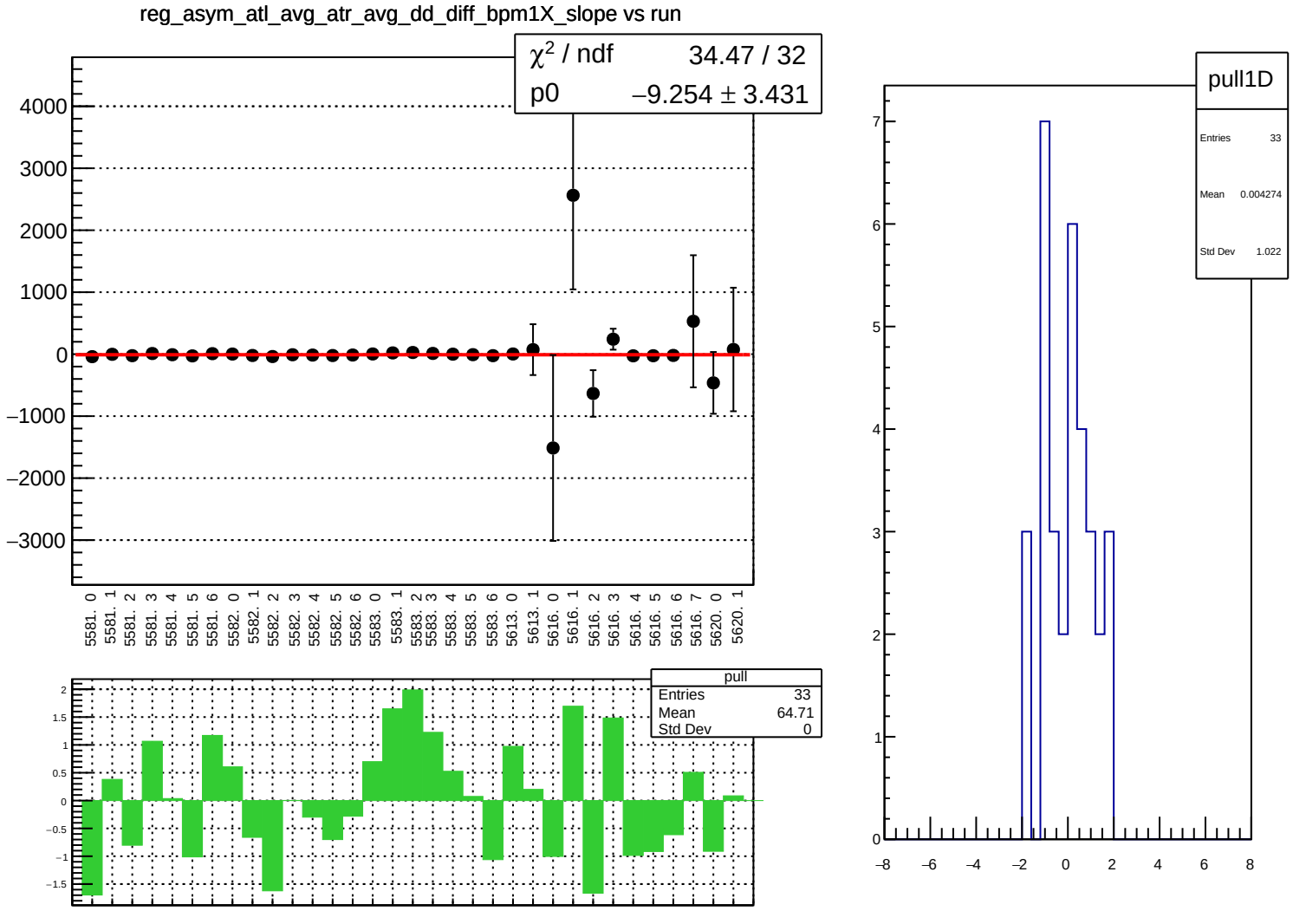

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 265 / 32
p0 −75.86 ± 5.848
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.3671
Std Dev 0
pull1D
Entries 33
Mean −0.8136
Std Dev 2.714

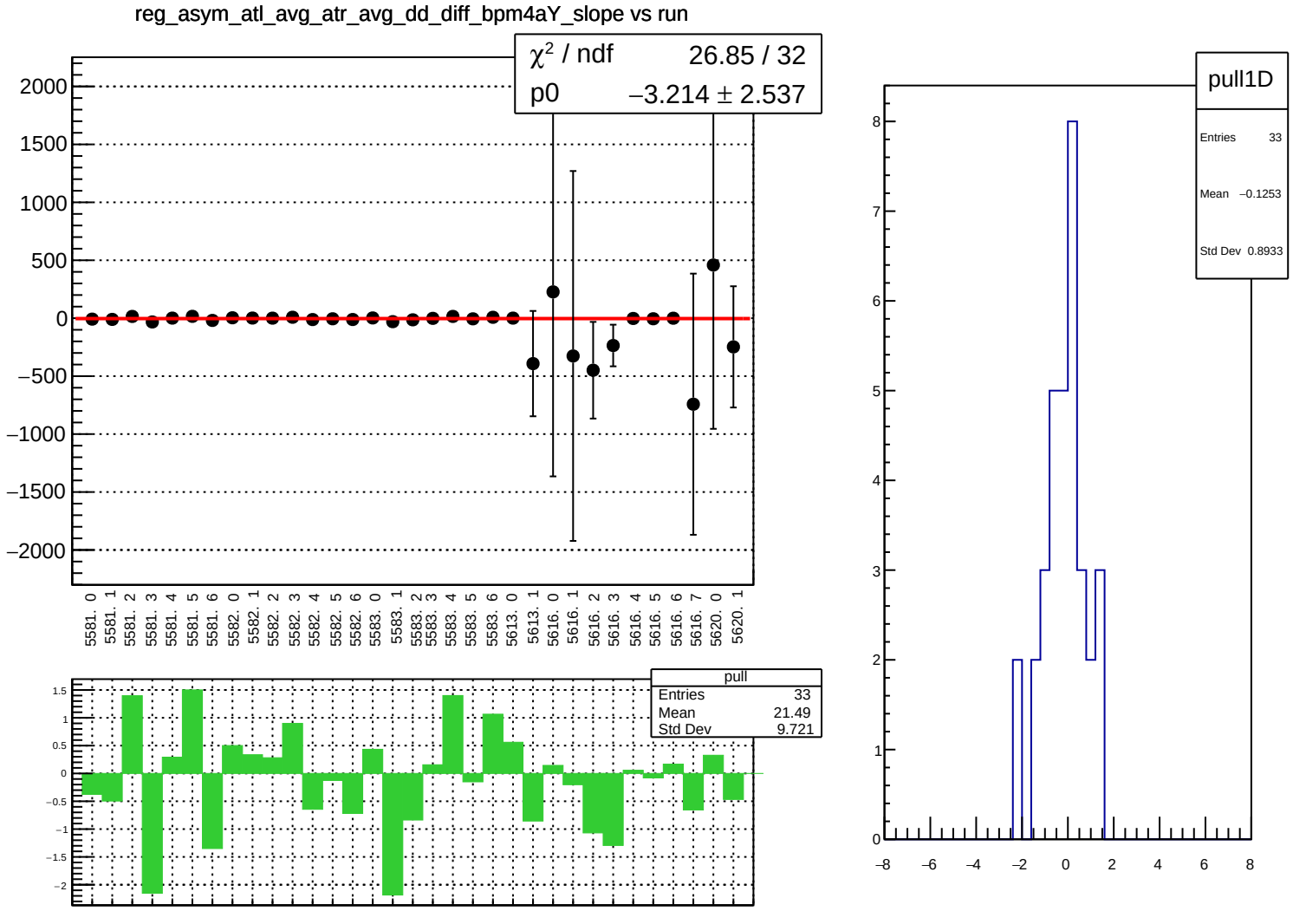

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.12 / 32
p0 12.44 ± 4.753
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −11.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 33
Mean 0.1492
Std Dev 1.05
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

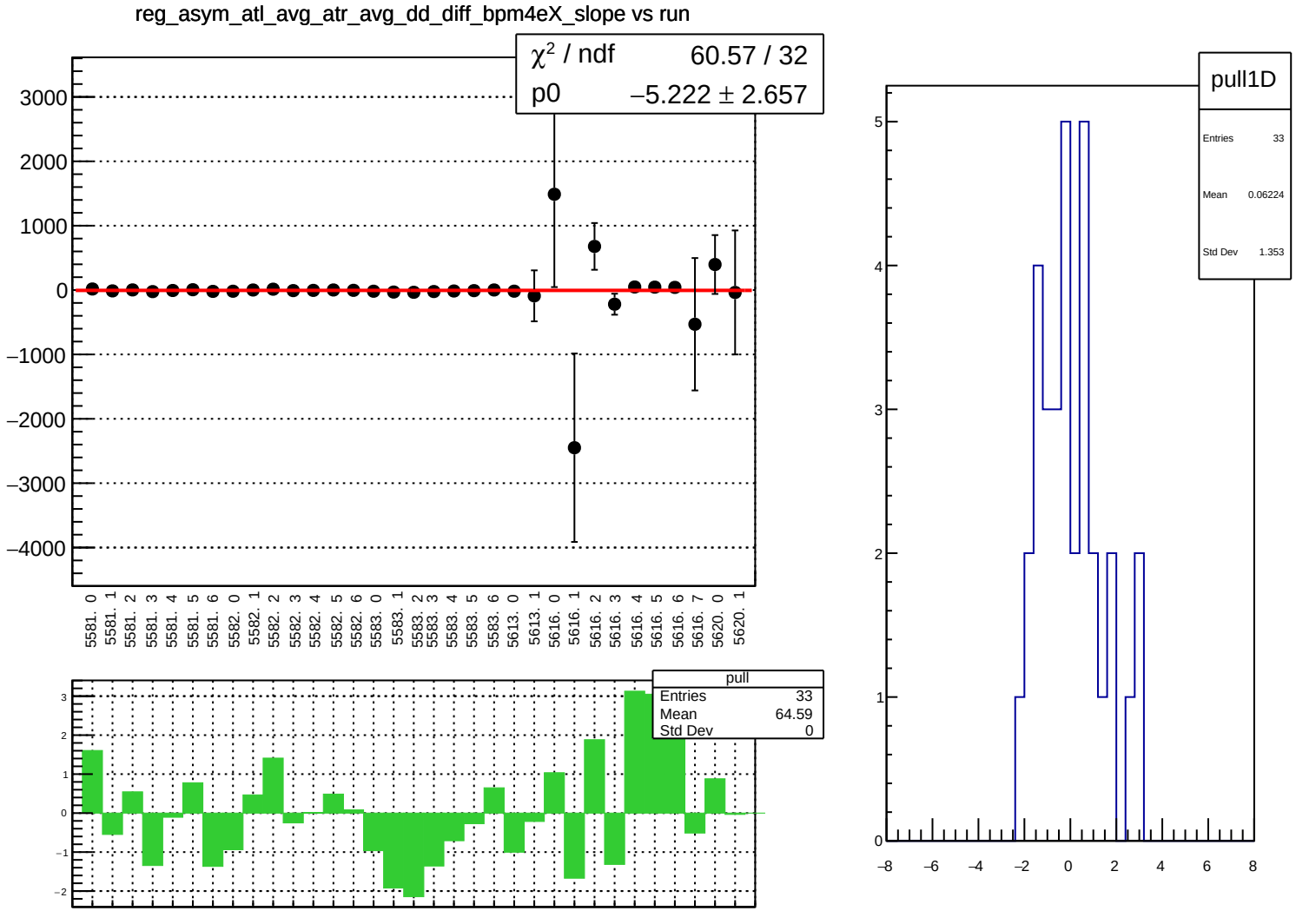

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 291.5 / 32
p0 95.57 ± 4.783
4000
3000
2000
1000
0
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −8.566
Std Dev 0
2
0
−2
−4
−6
−8
pull1D
Entries 33
Mean 1.151
Std Dev 1.855
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

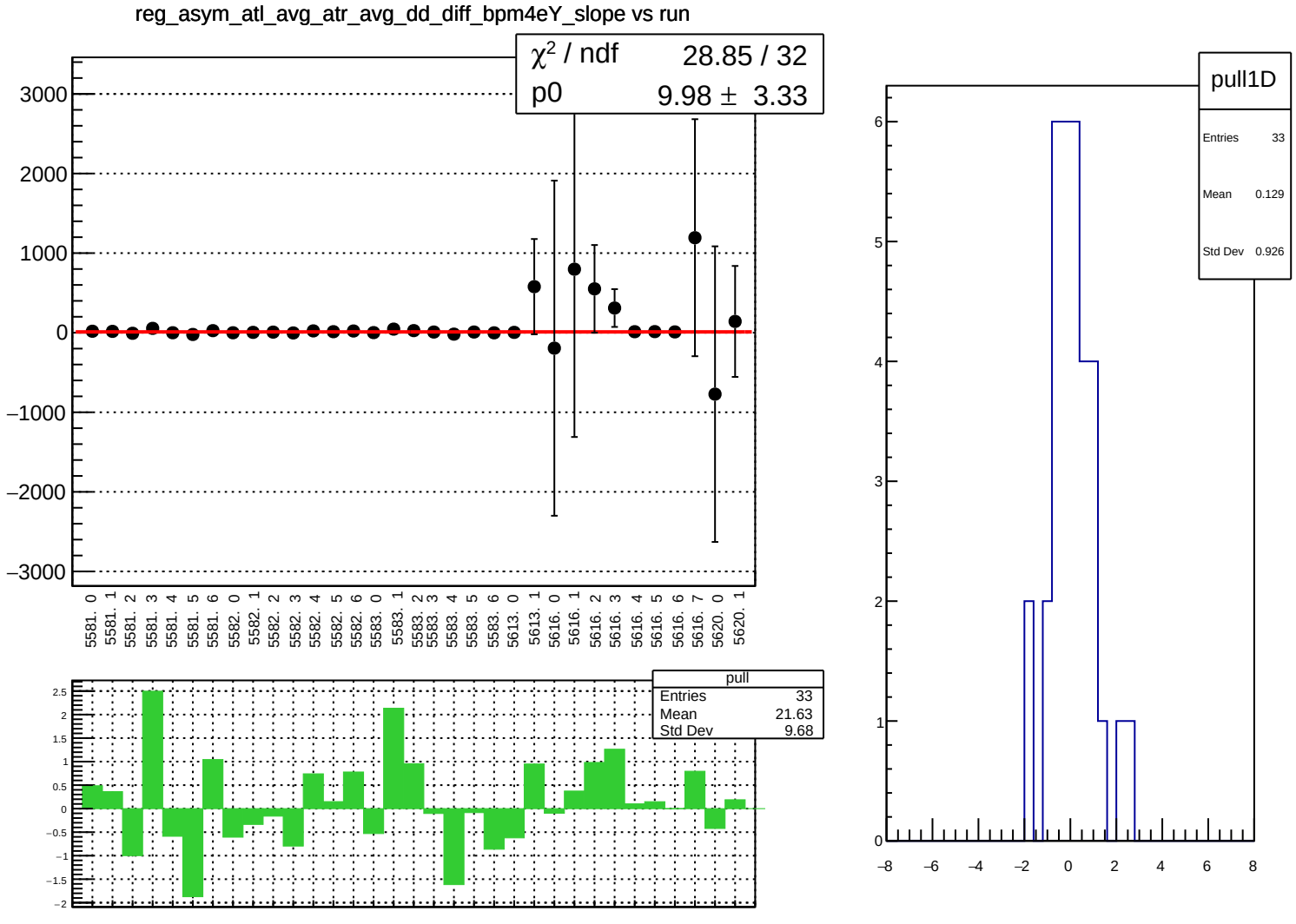

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.93 / 32
p0 10.99 ± 6.242
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 17.4
Std Dev 9.931
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.08694
Std Dev 0.62
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

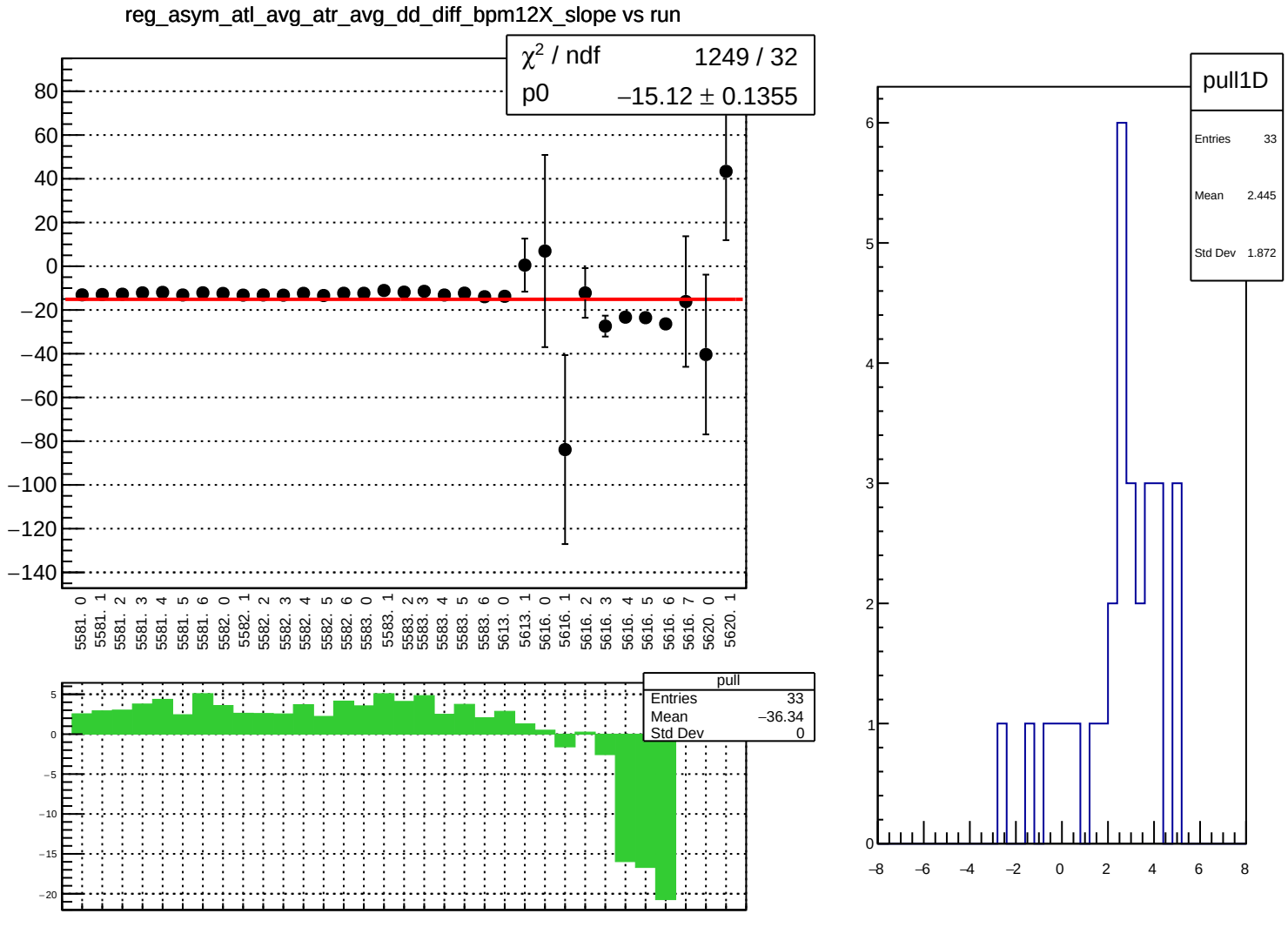

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 8.703e+04 / 32
p0 −29.65 ± 0.2073
150
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2.465
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 33
Mean 0.1194
Std Dev 2.504
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

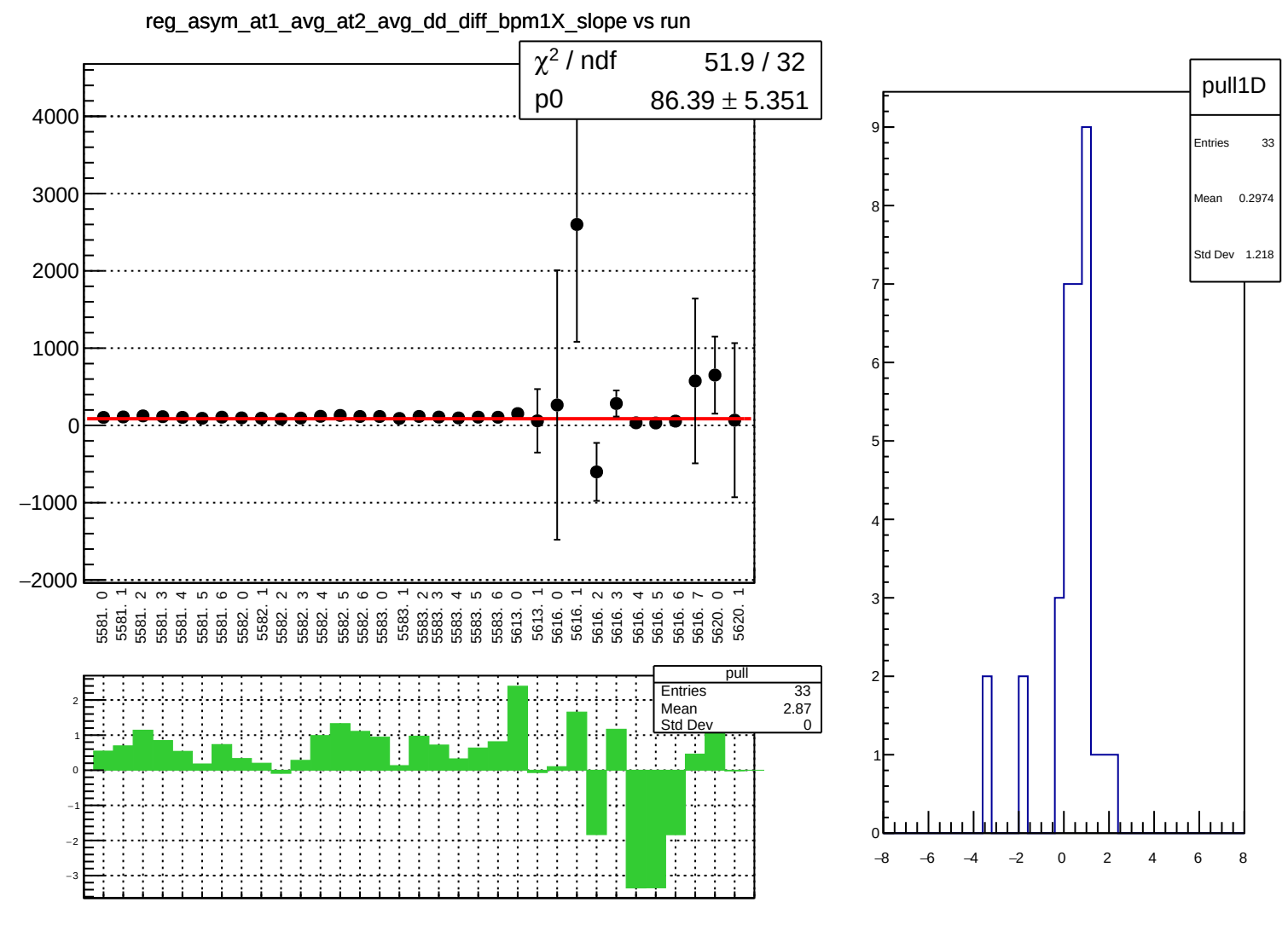

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 34.47 / 32
p0 −9.254 ± 3.431
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 64.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.004274
Std Dev 1.022
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

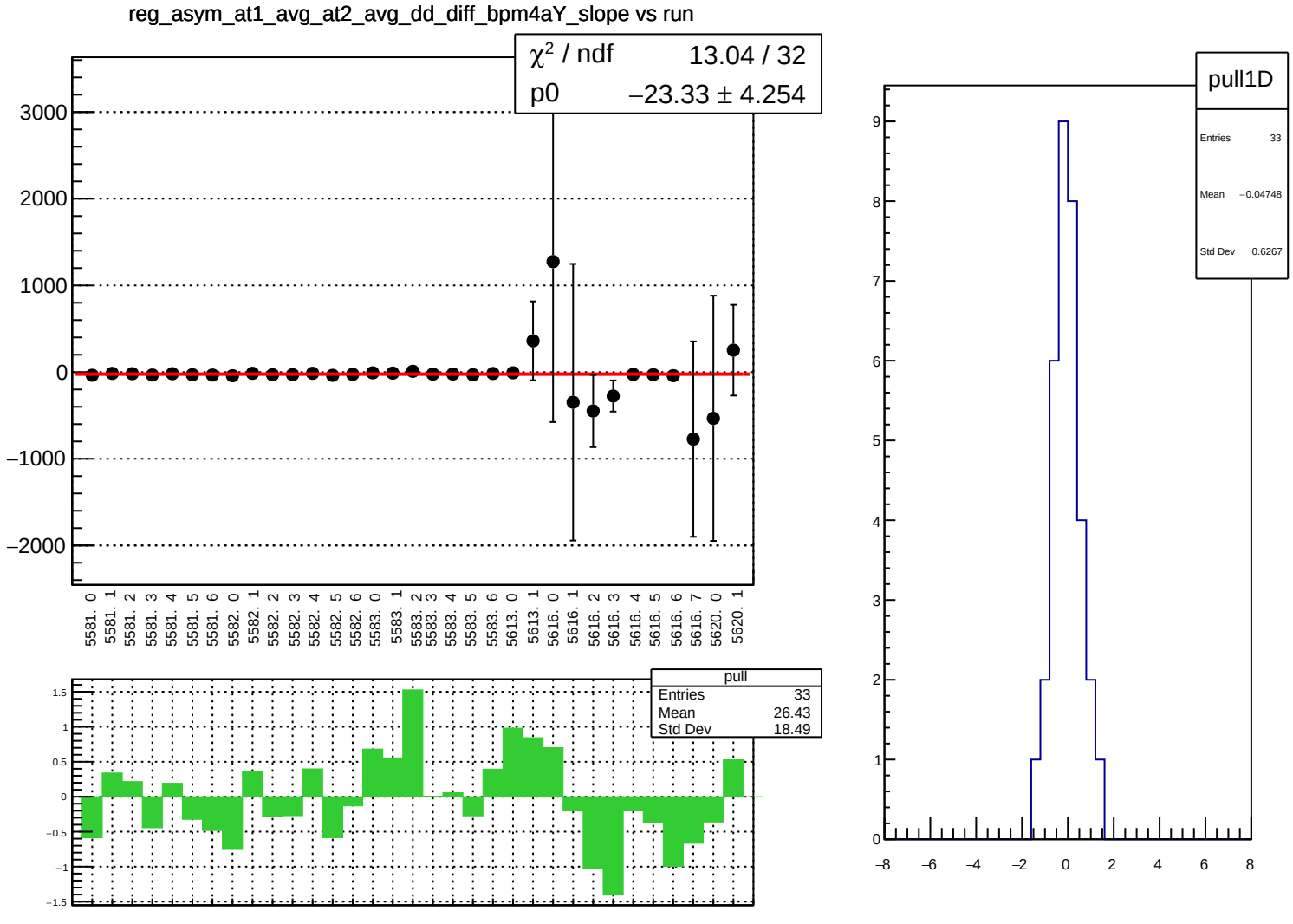

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.85 / 32
p0 −3.214 ± 2.537
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.49
Std Dev 9.721
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1253
Std Dev 0.8933
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

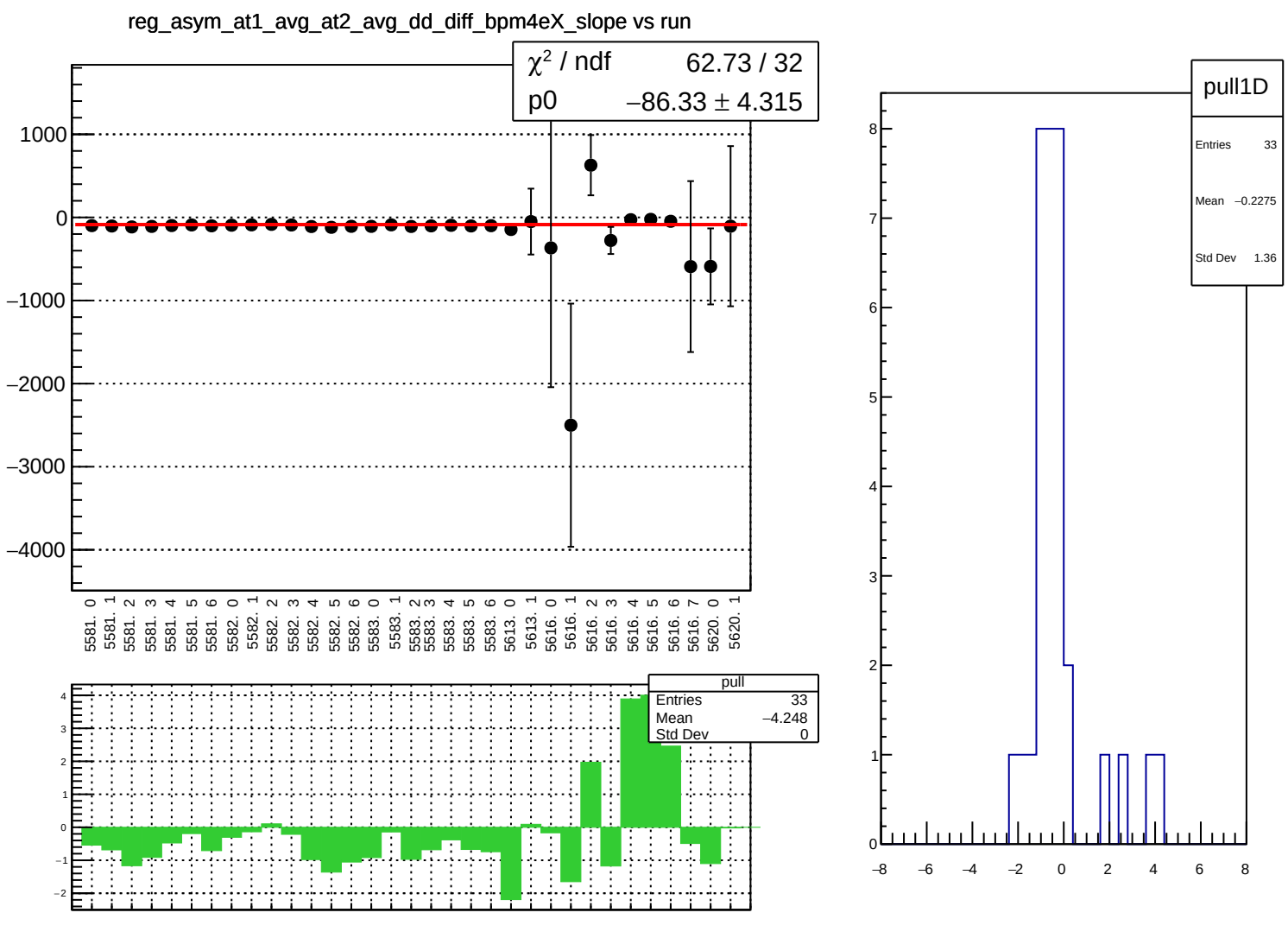

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.57 / 32
p0 −5.222 ± 2.657
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 64.59
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.06224
Std Dev 1.353
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

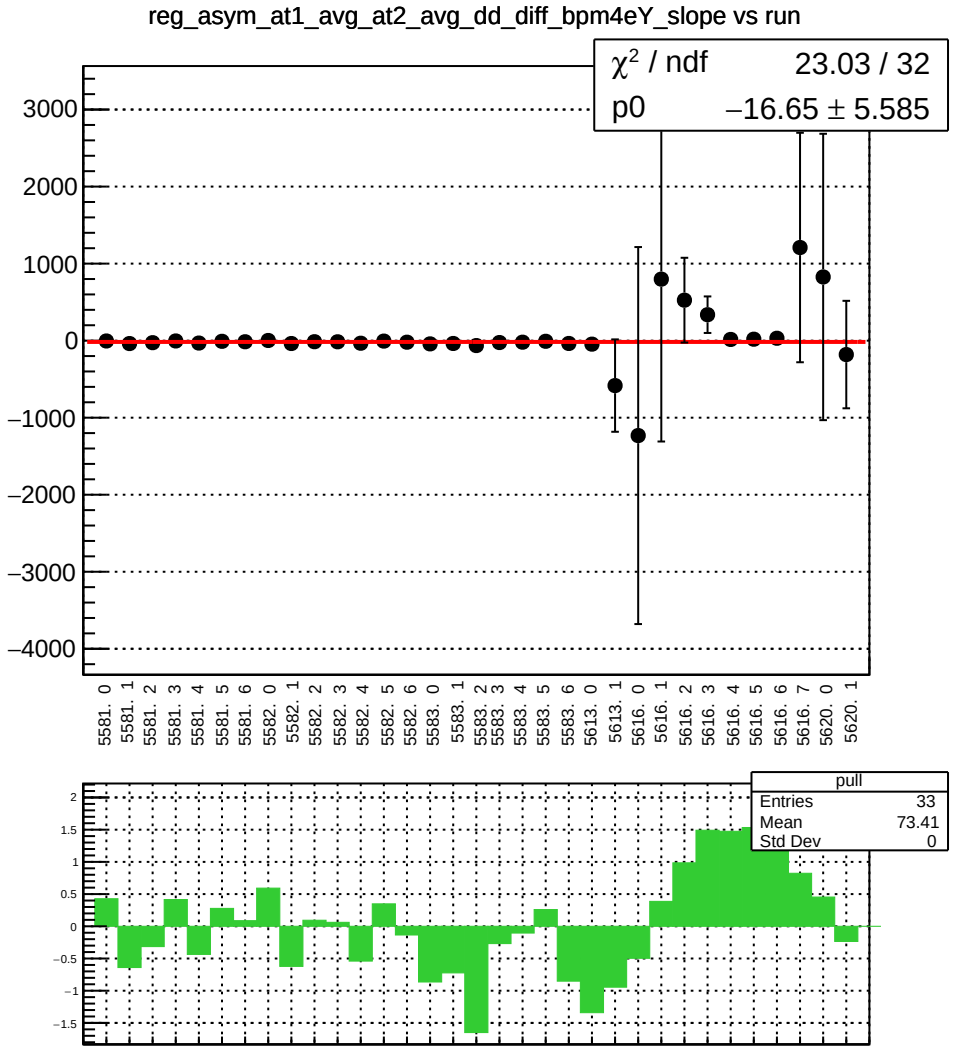

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.85 / 32
p0 9.98 ± 3.33
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.63
Std Dev 9.68
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.129
Std Dev 0.926
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

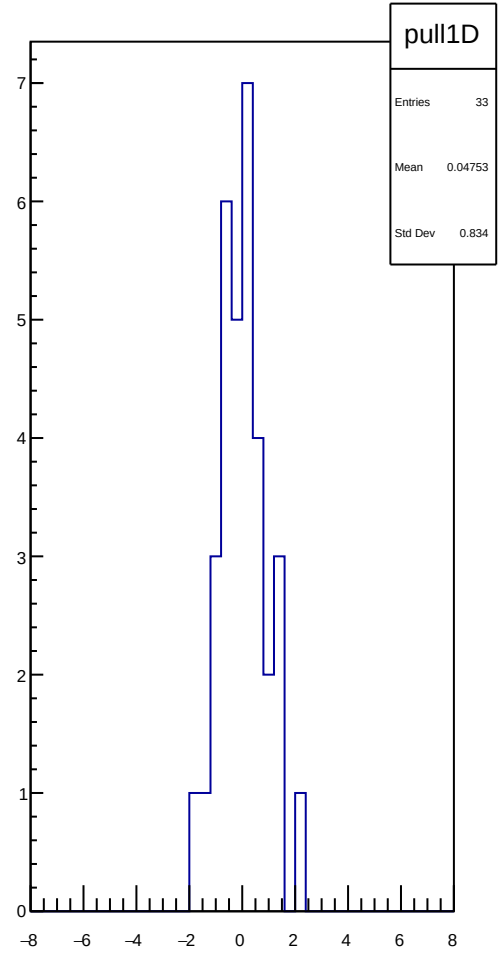

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1249 / 32
p0 −15.12 ± 0.1355
pull
Entries 33
Mean −36.34
Std Dev 0
pull1D
Entries 33
Mean 2.445
Std Dev 1.872

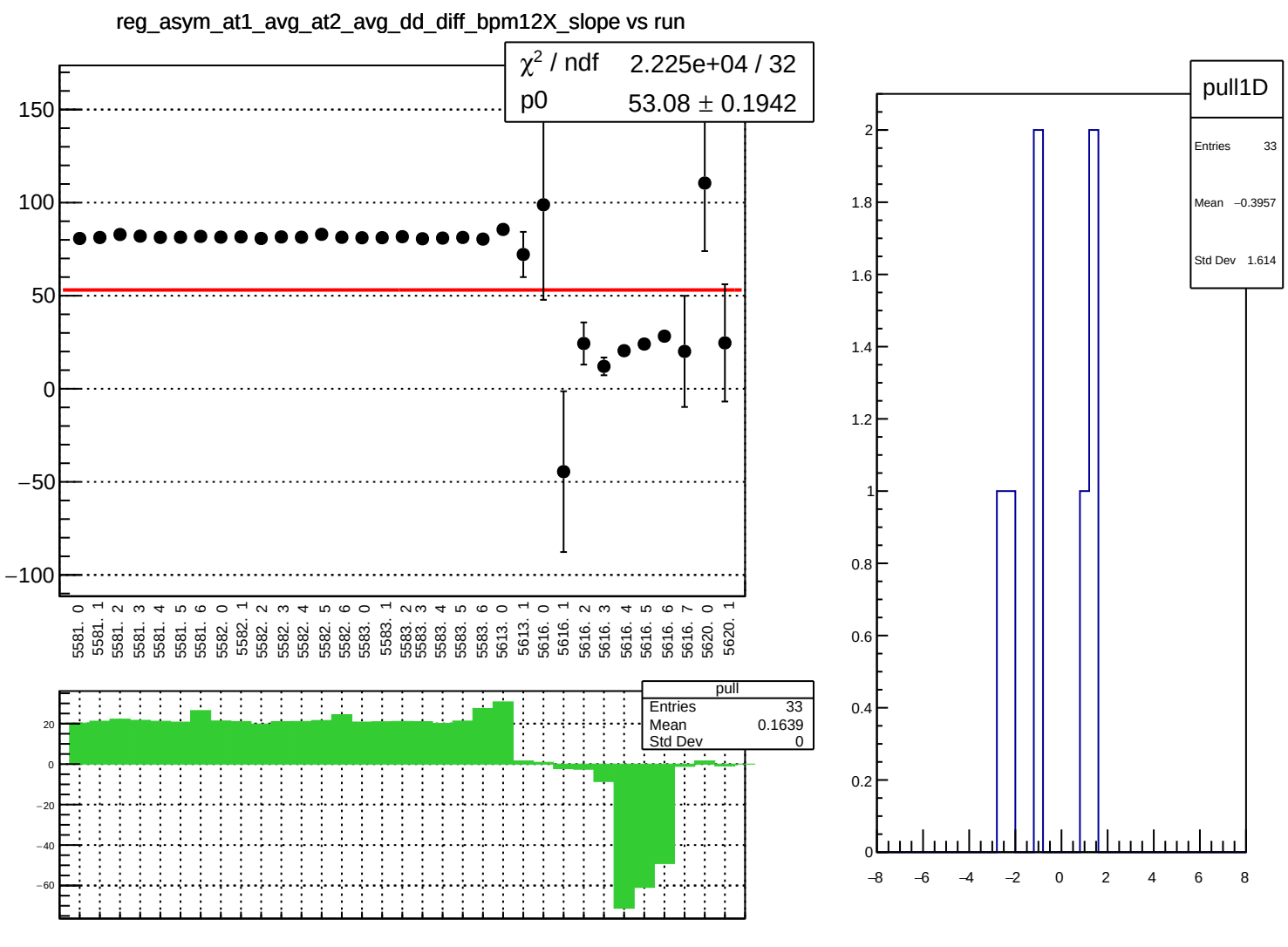

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 51.9 / 32
p0 86.39 ± 5.351
4000
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2.87
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.2974
Std Dev 1.218
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

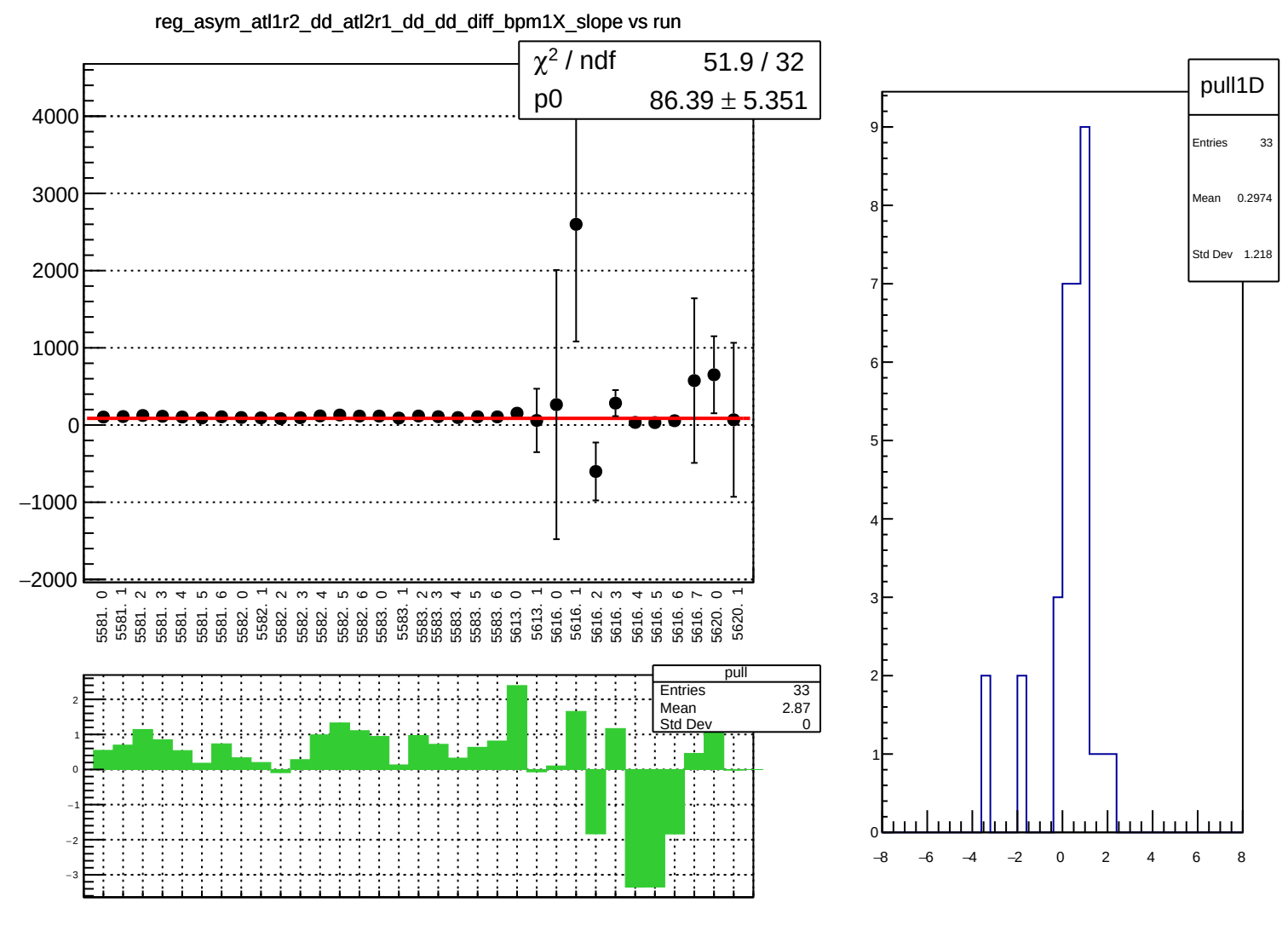

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.04 / 32
p0 −23.33 ± 4.254
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.43
Std Dev 18.49
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.04748
Std Dev 0.6267
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

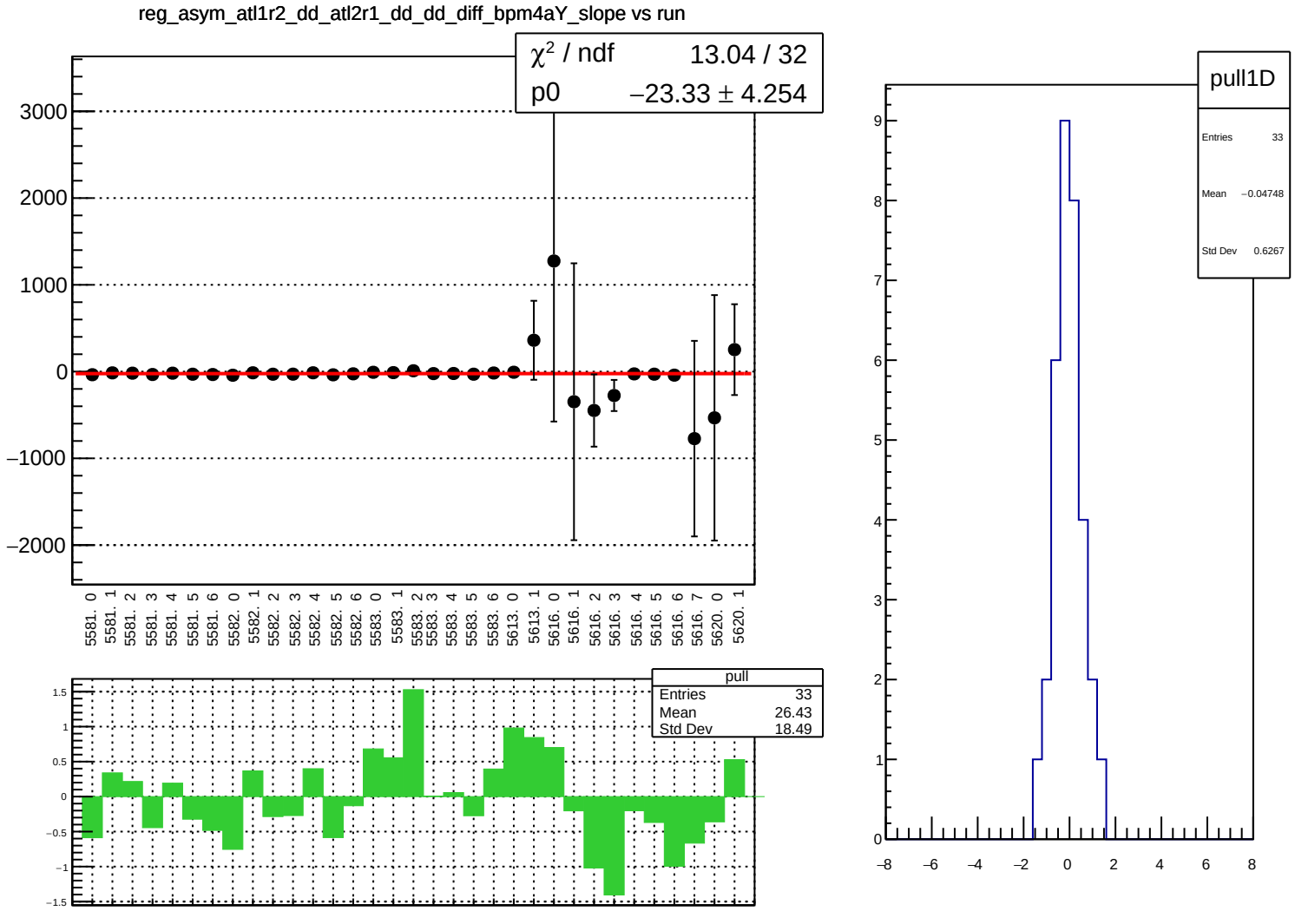

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.73 / 32
p0 −86.33 ± 4.315
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −4.248
Std Dev 0
pull1D
Entries 33
Mean −0.2275
Std Dev 1.36

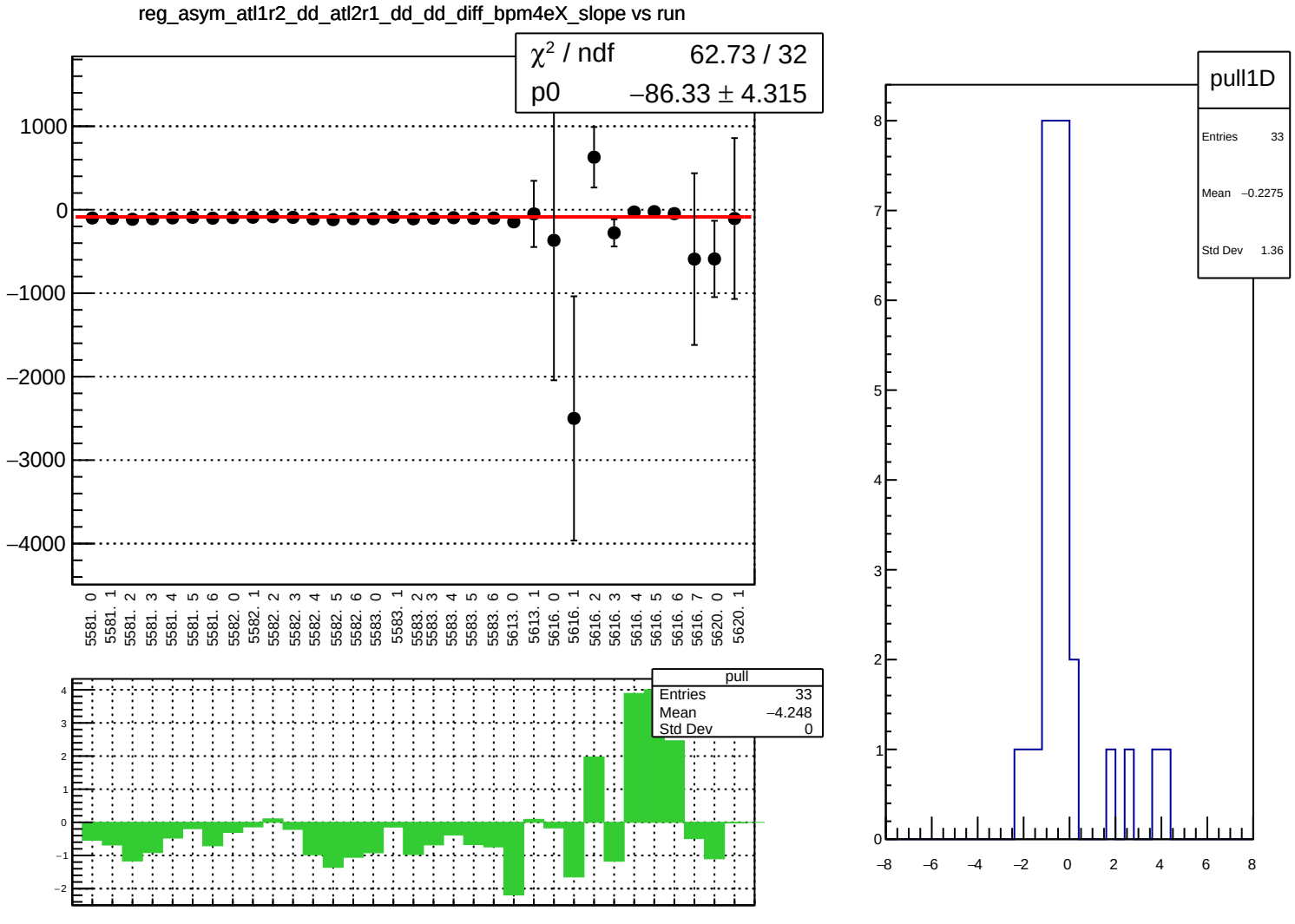

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.03 / 32
p0 −16.65 ± 5.585
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 73.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

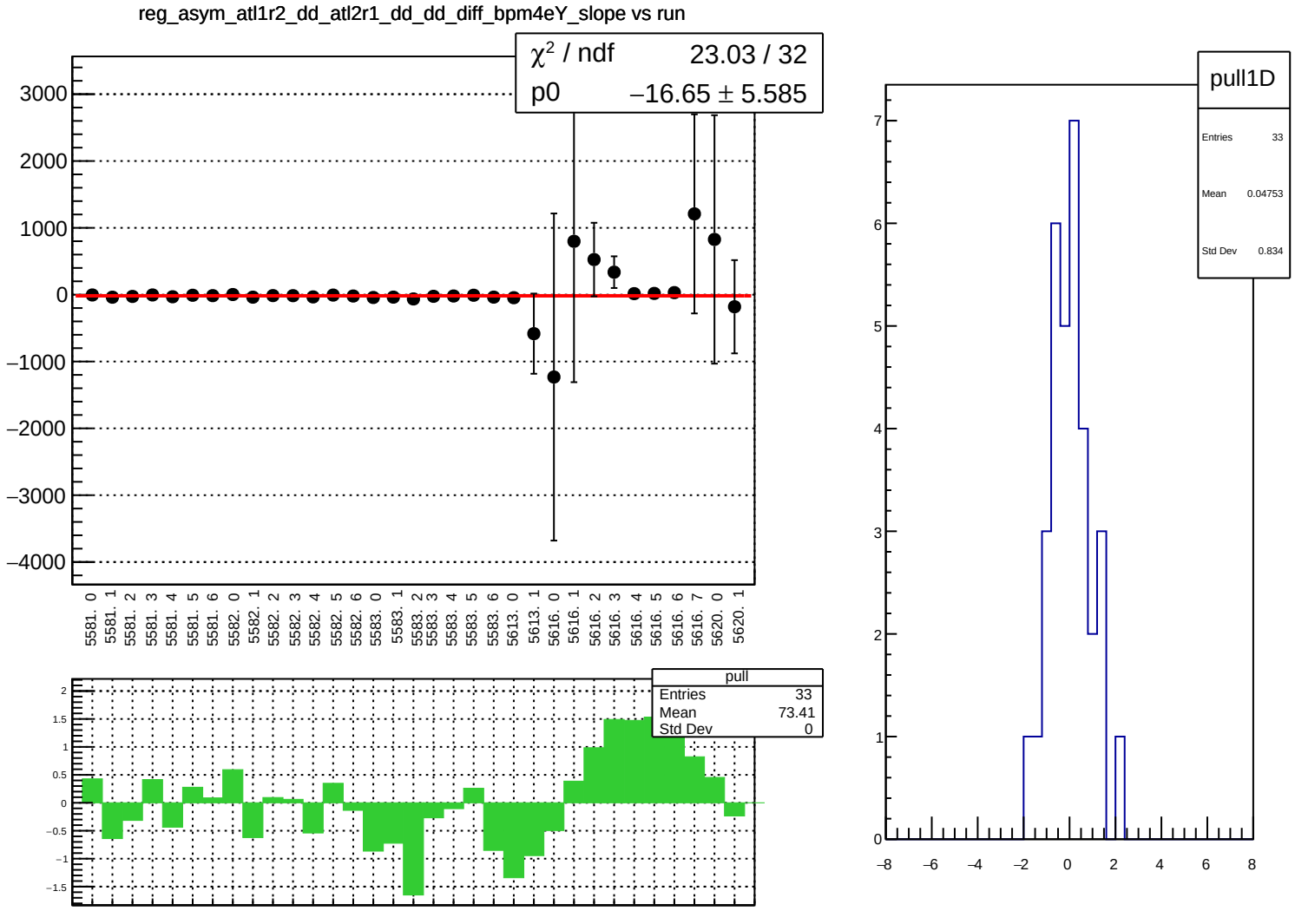

pull1D
Entries 33
Mean 0.04753
Std Dev 0.834
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

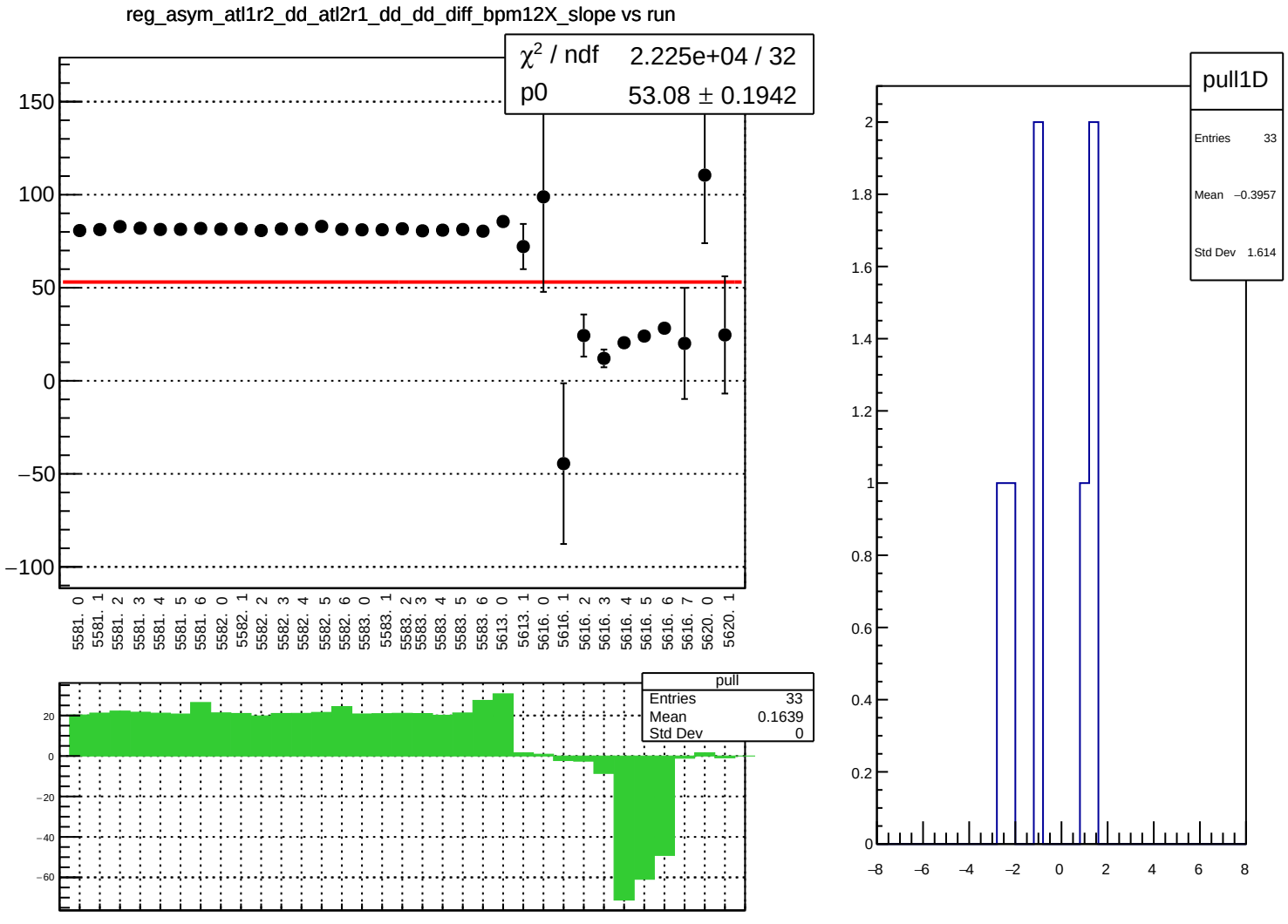

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 2.225e+04 / 32
p0 53.08 ± 0.1942
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 0.1639
Std Dev 0
20
0
−20
−40
−60
pull1D
Entries 33
Mean −0.3957
Std Dev 1.614
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

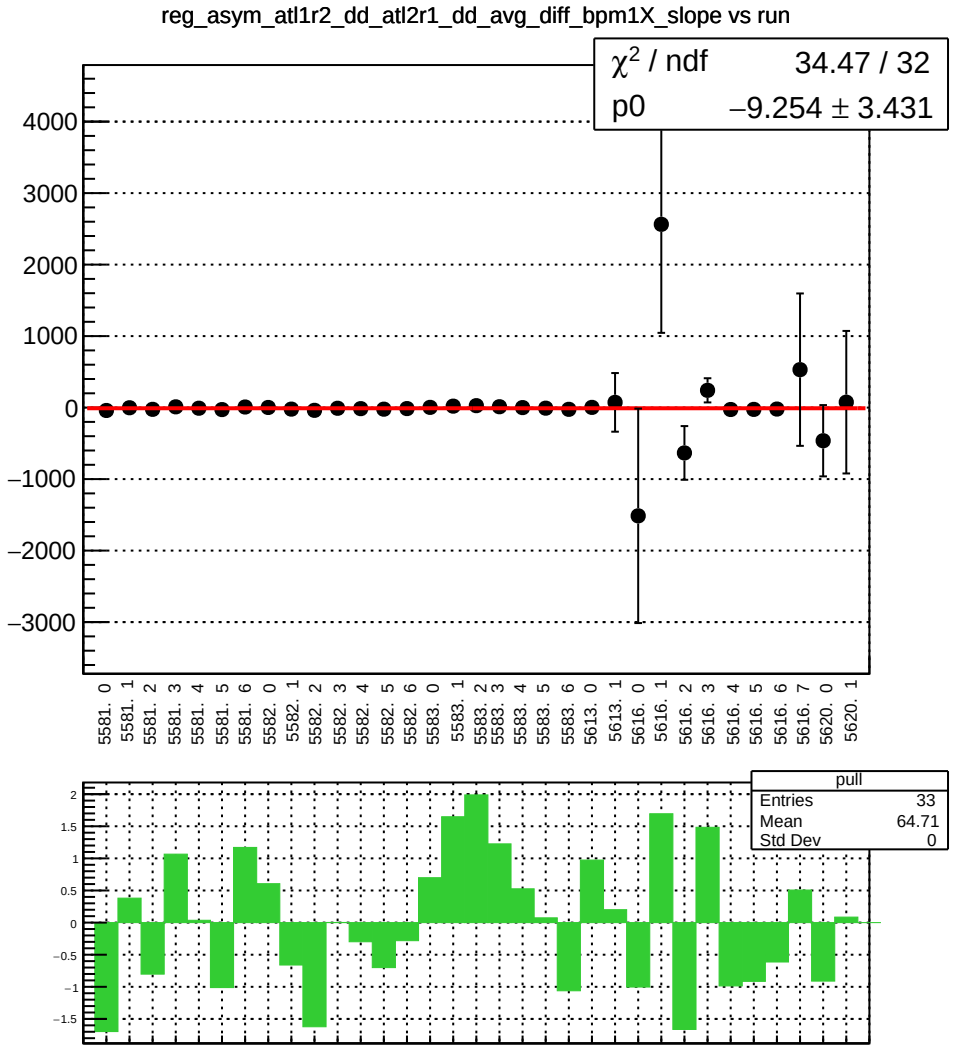

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 51.9 / 32
p0 86.39 ± 5.351
4000
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2.87
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.2974
Std Dev 1.218
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

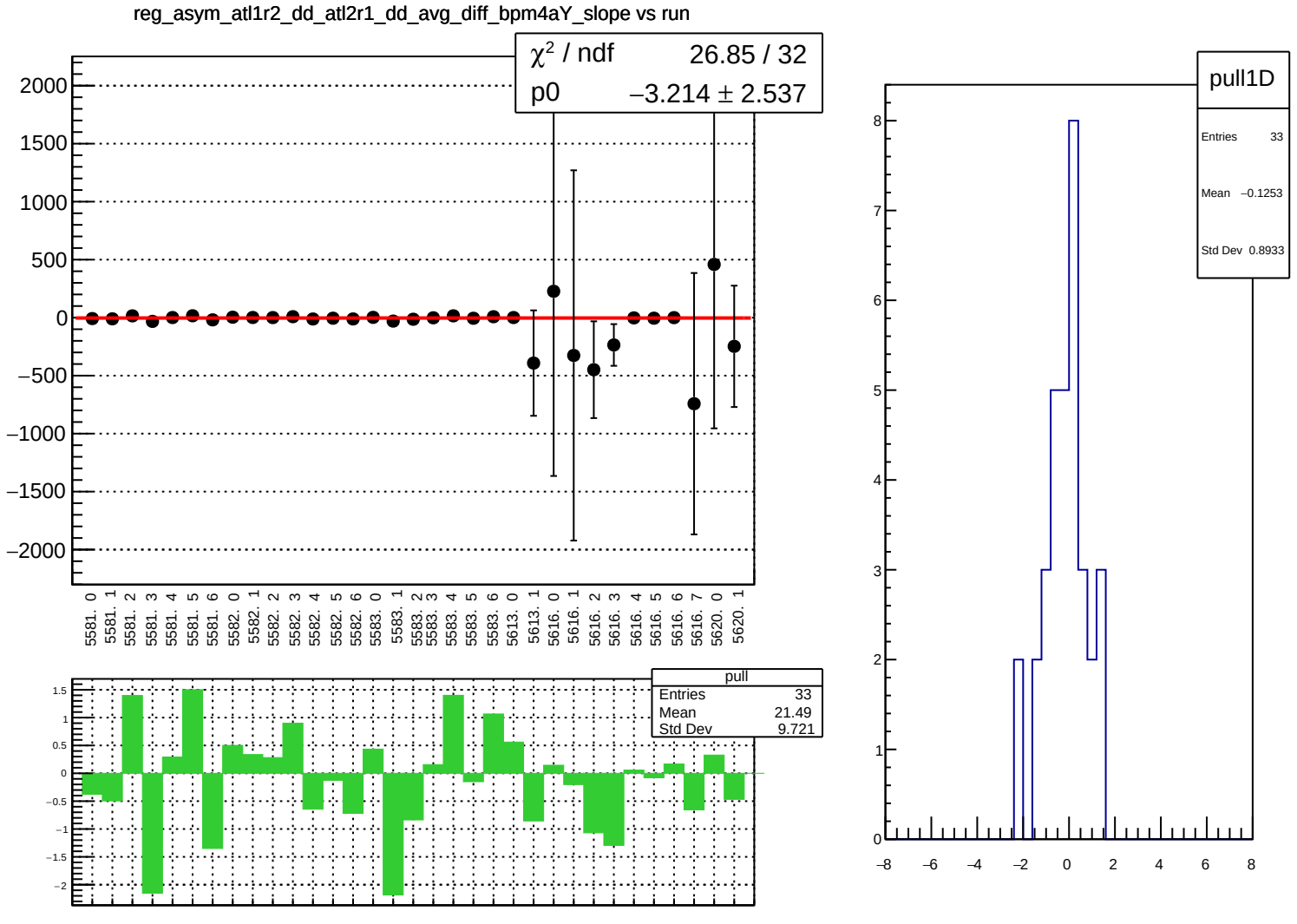

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.04 / 32
p0 −23.33 ± 4.254
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.43
Std Dev 18.49
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.04748
Std Dev 0.6267
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

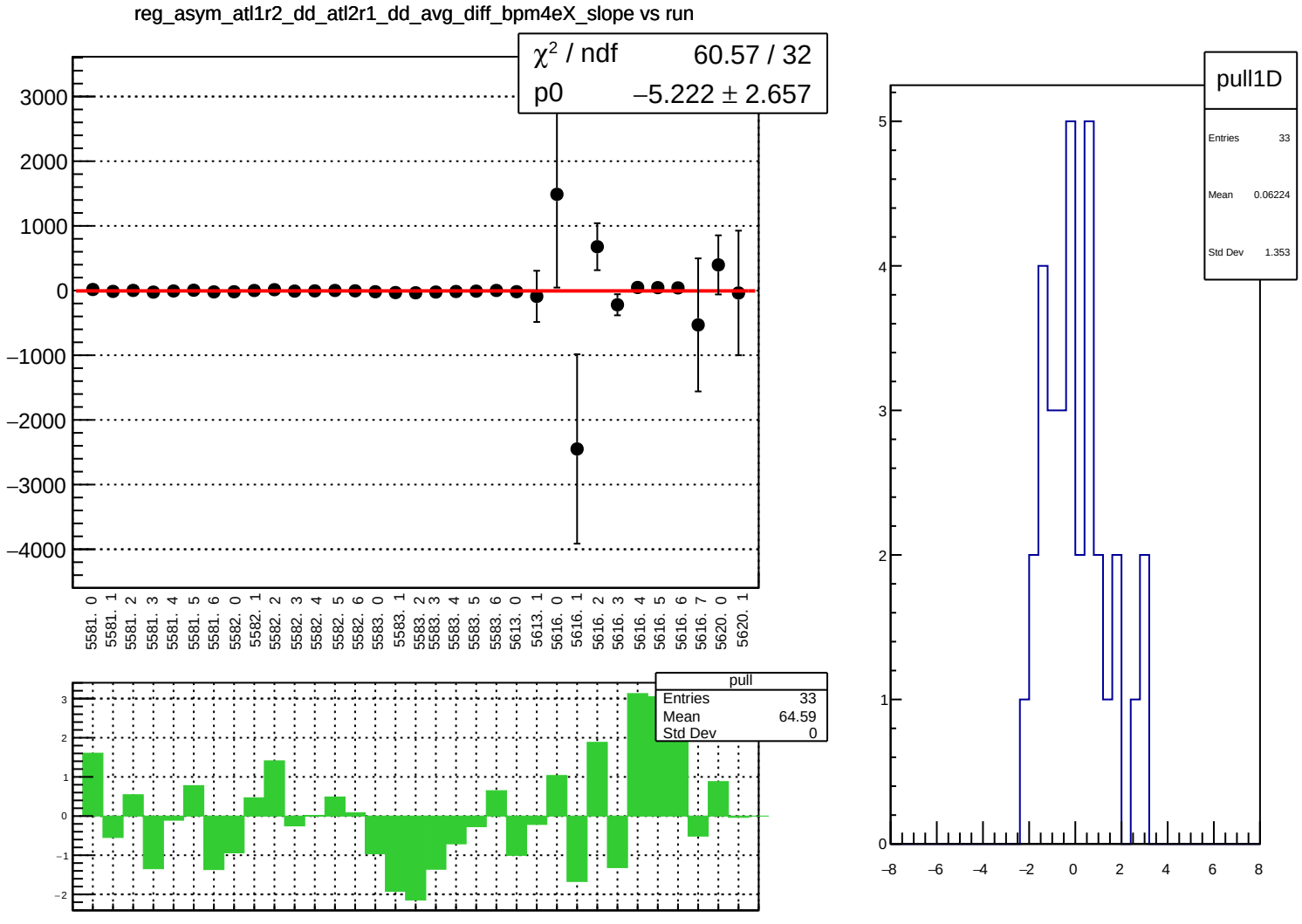

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.73 / 32
p0 −86.33 ± 4.315
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −4.248
Std Dev 0
pull1D
Entries 33
Mean −0.2275
Std Dev 1.36

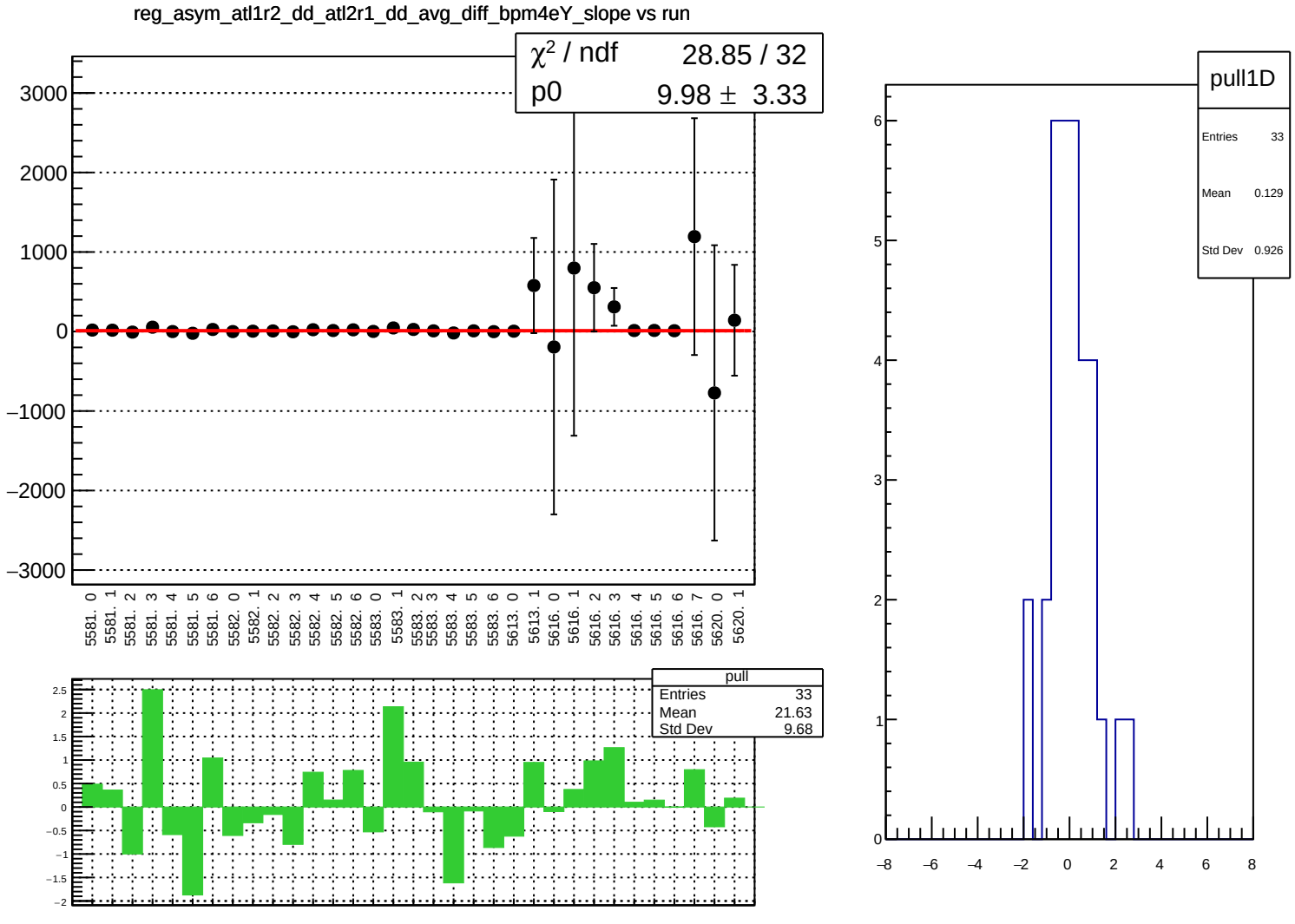

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.03 / 32
p0 −16.65 ± 5.585
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 73.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.04753
Std Dev 0.834
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

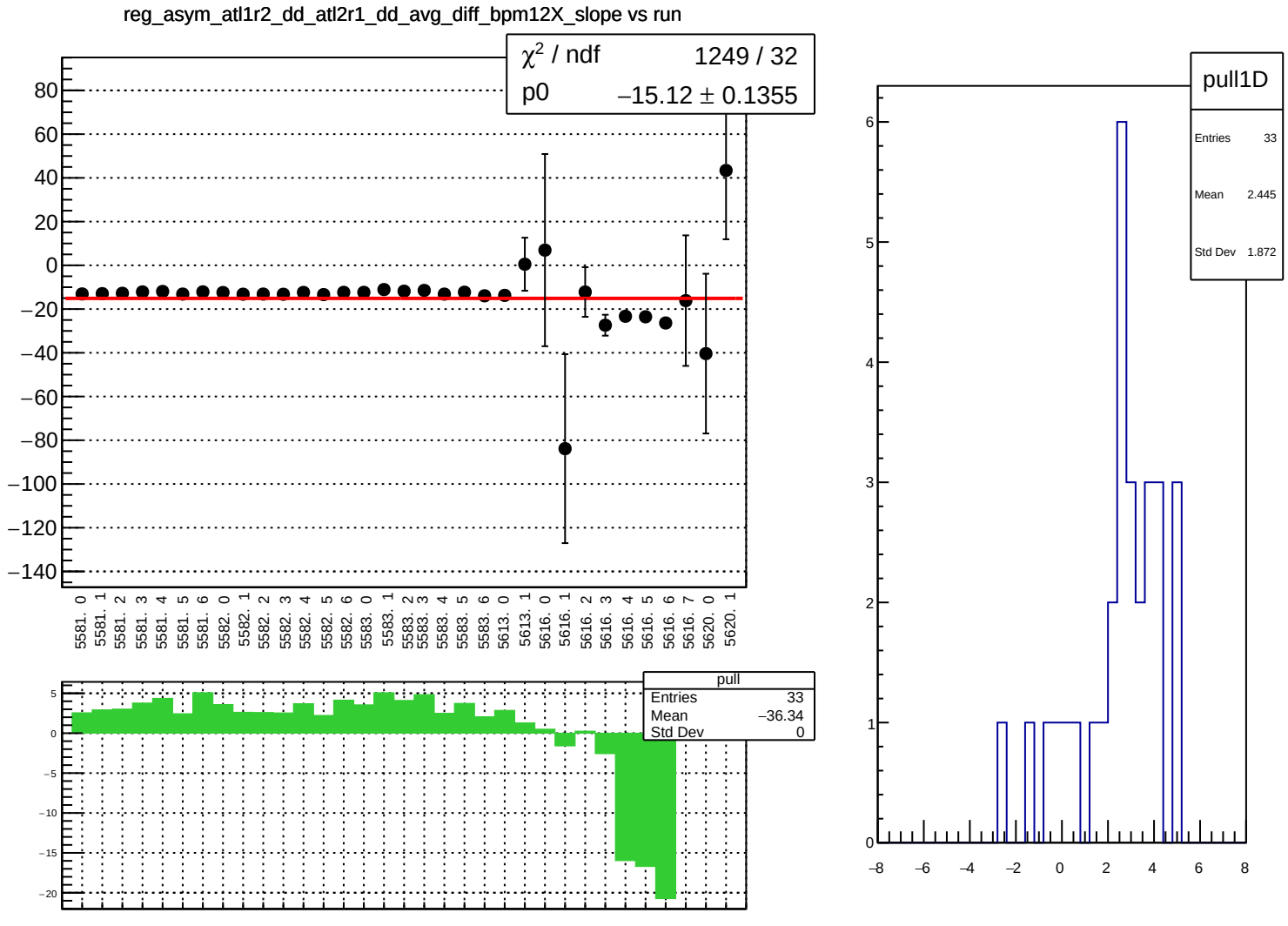

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 2.225e+04 / 32
p0 53.08 ± 0.1942
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 0.1639
Std Dev 0
20
0
−20
−40
−60
pull1D
Entries 33
Mean −0.3957
Std Dev 1.614
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

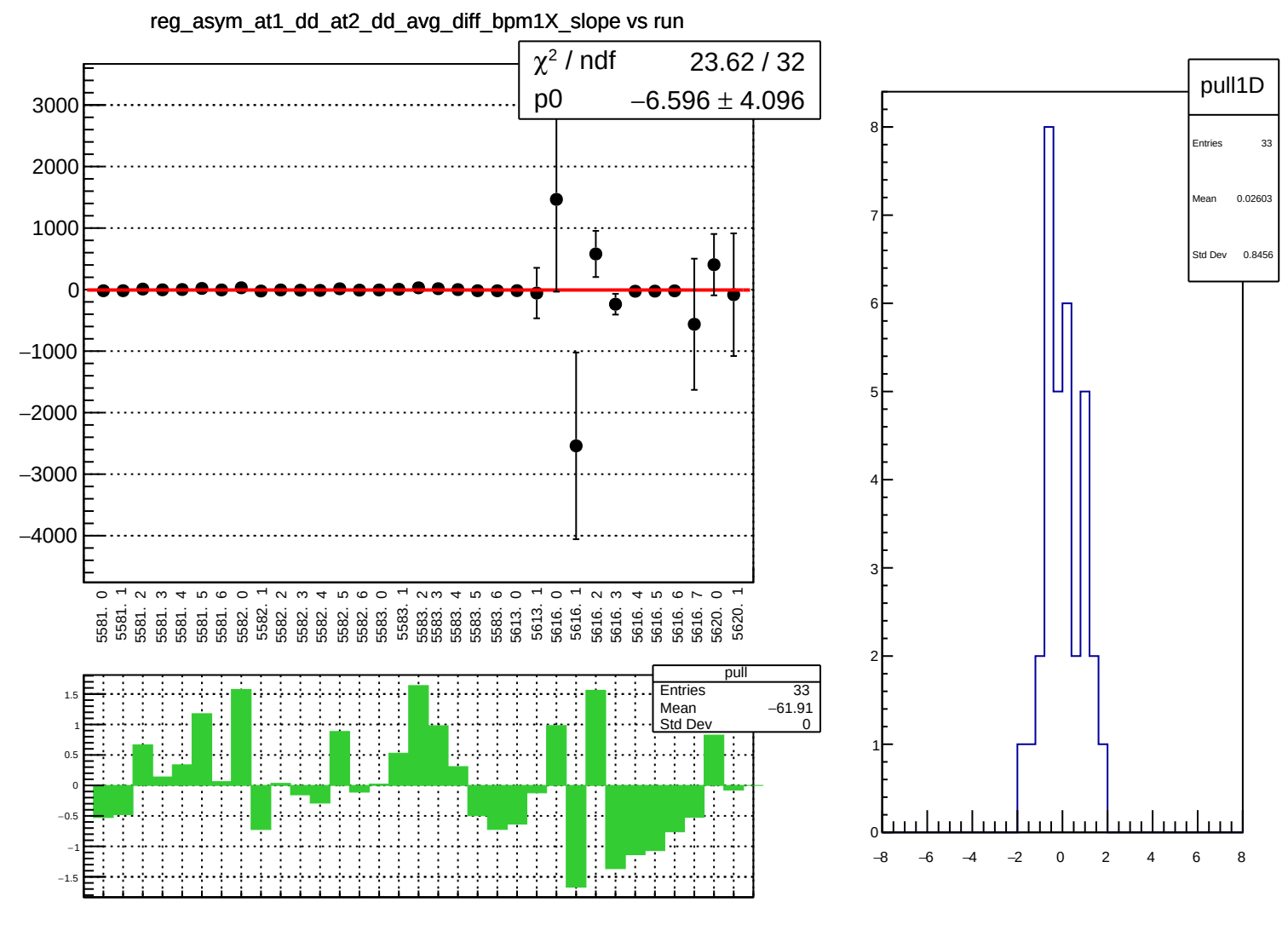

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 34.47 / 32
p0 −9.254 ± 3.431
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 64.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.004274
Std Dev 1.022
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

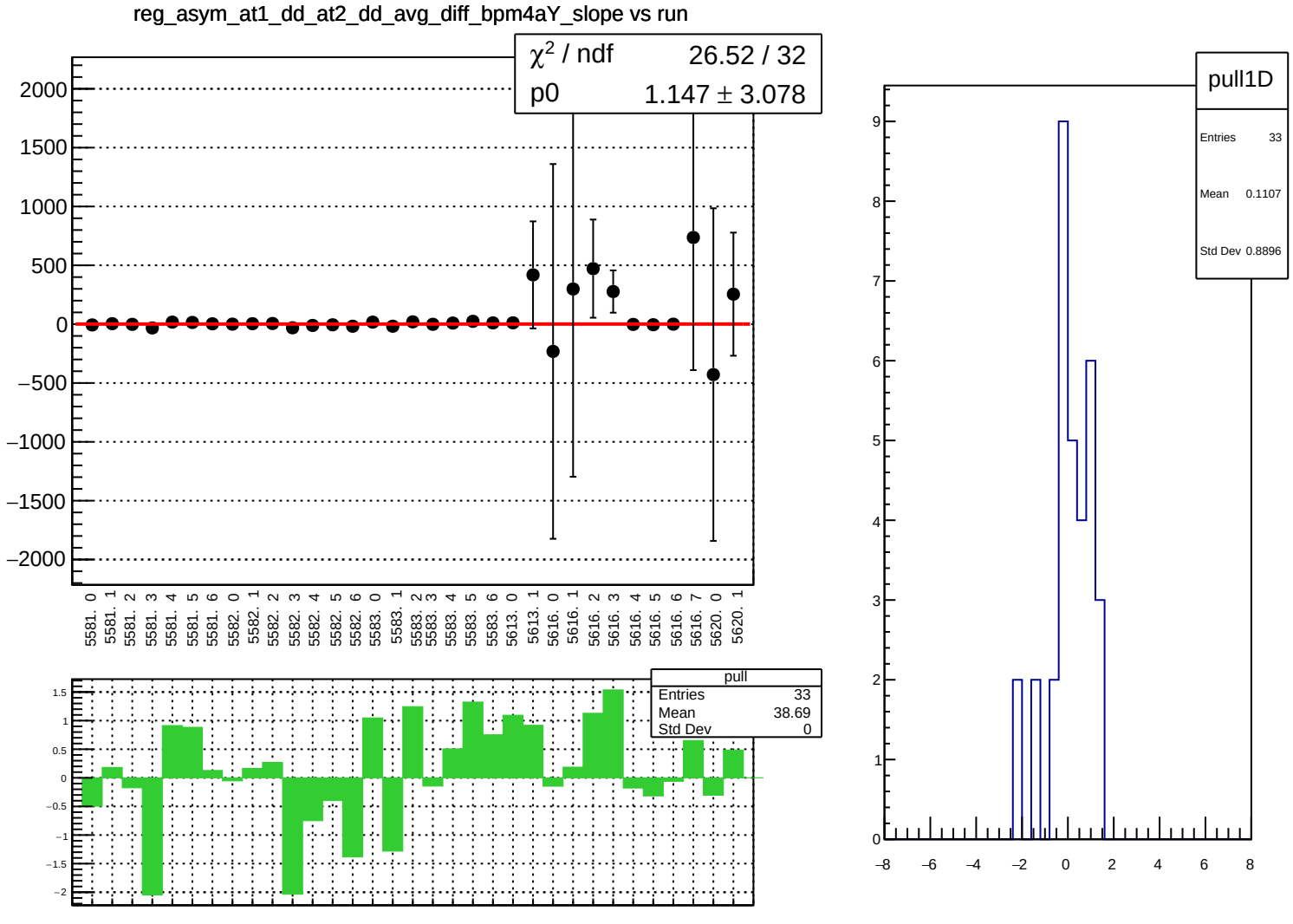

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.85 / 32
p0 −3.214 ± 2.537
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.49
Std Dev 9.721
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1253
Std Dev 0.8933
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

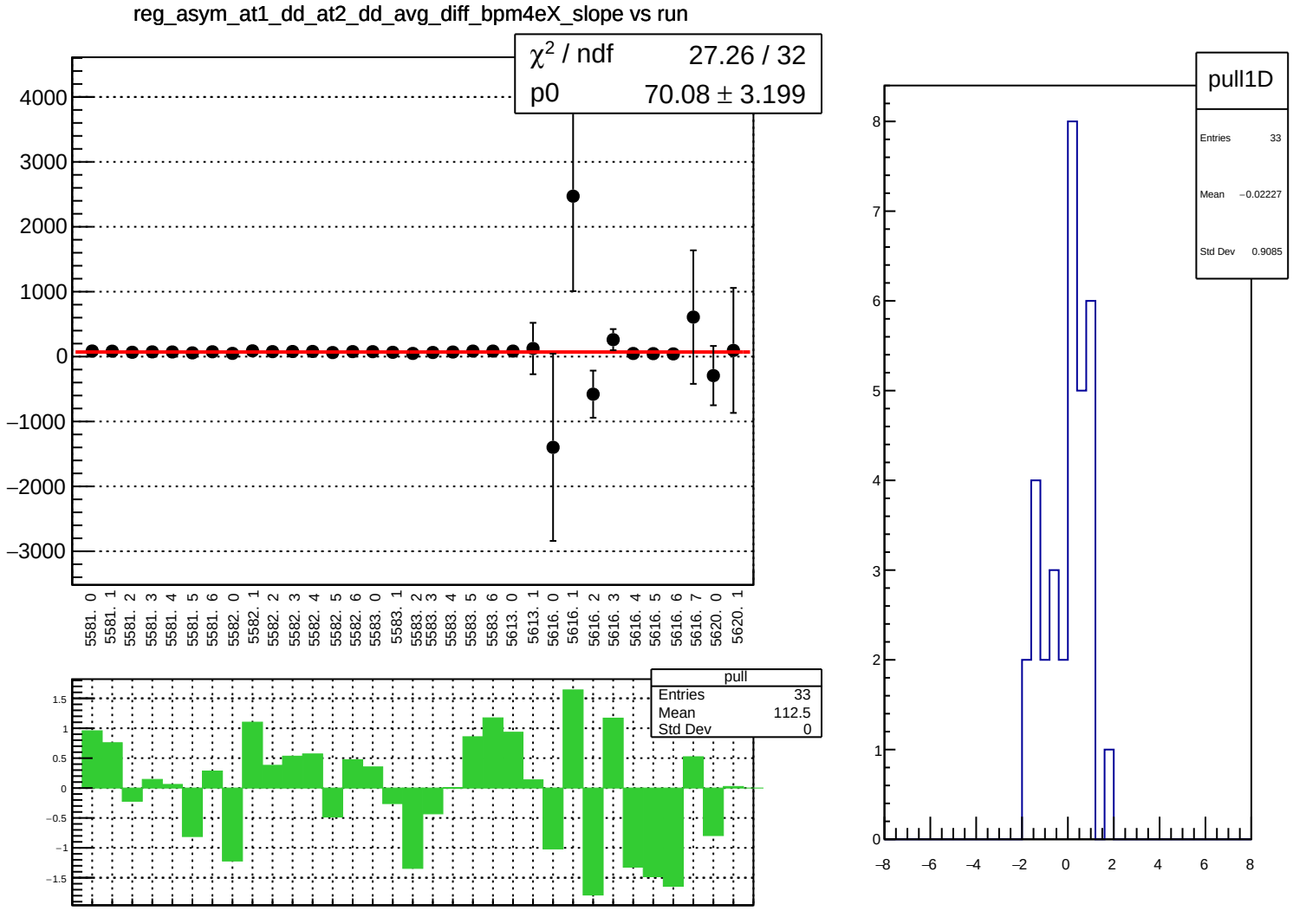

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.57 / 32
p0 −5.222 ± 2.657
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 64.59
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.06224
Std Dev 1.353
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

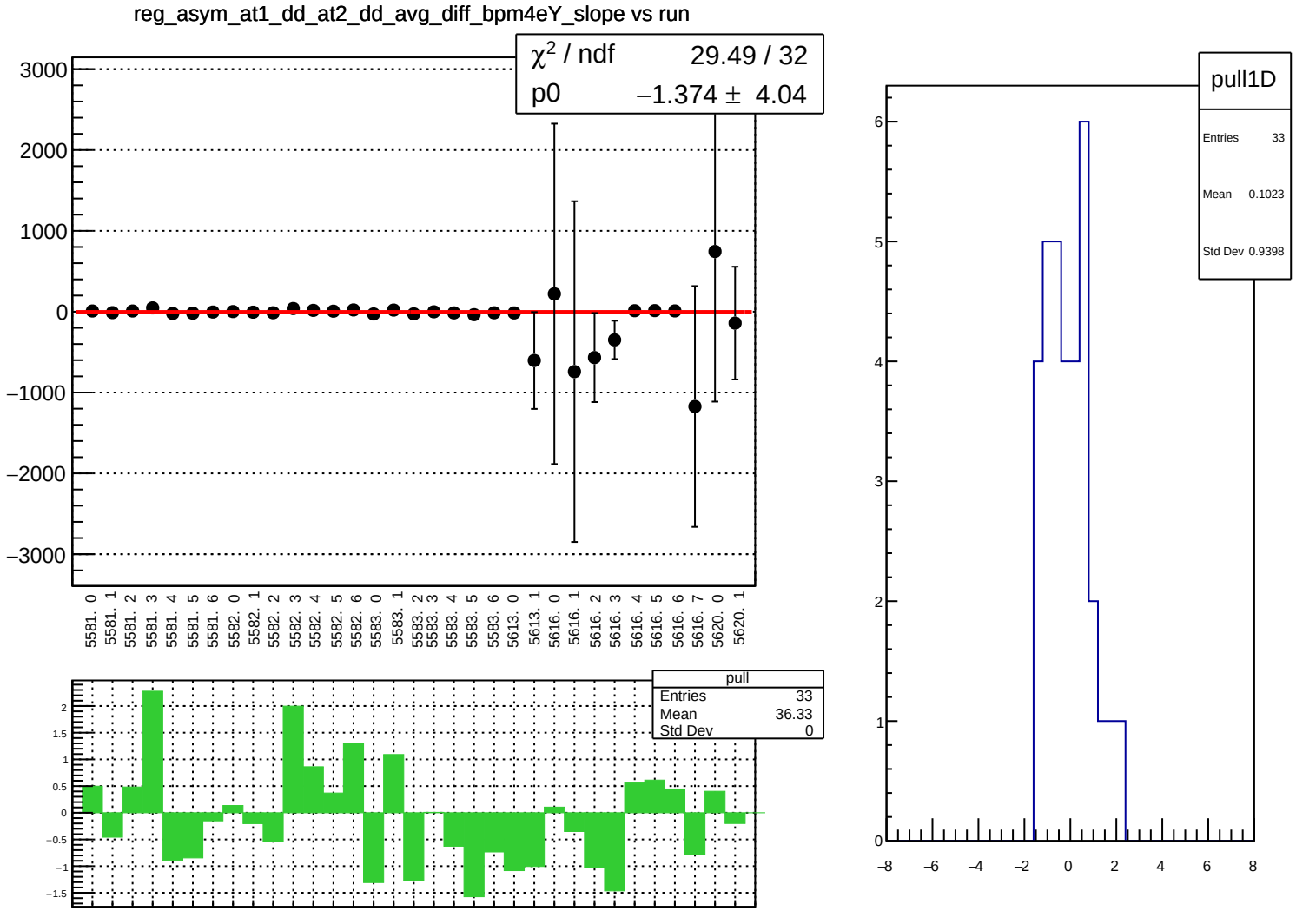

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.85 / 32
p0 9.98 ± 3.33
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.63
Std Dev 9.68
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.129
Std Dev 0.926
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

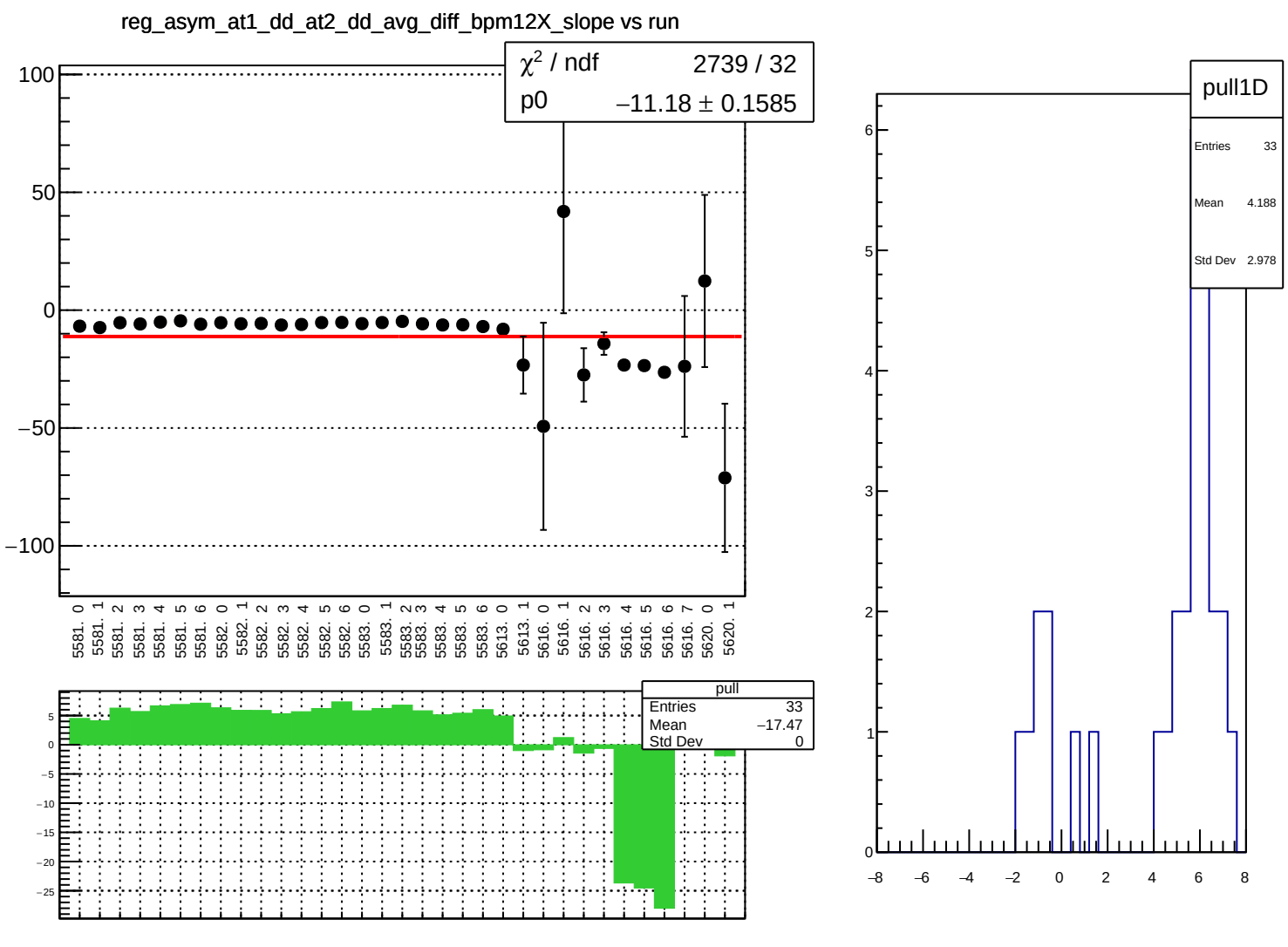

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 1249 / 32
p0 −15.12 ± 0.1355
pull
Entries 33
Mean −36.34
Std Dev 0
pull1D
Entries 33
Mean 2.445
Std Dev 1.872

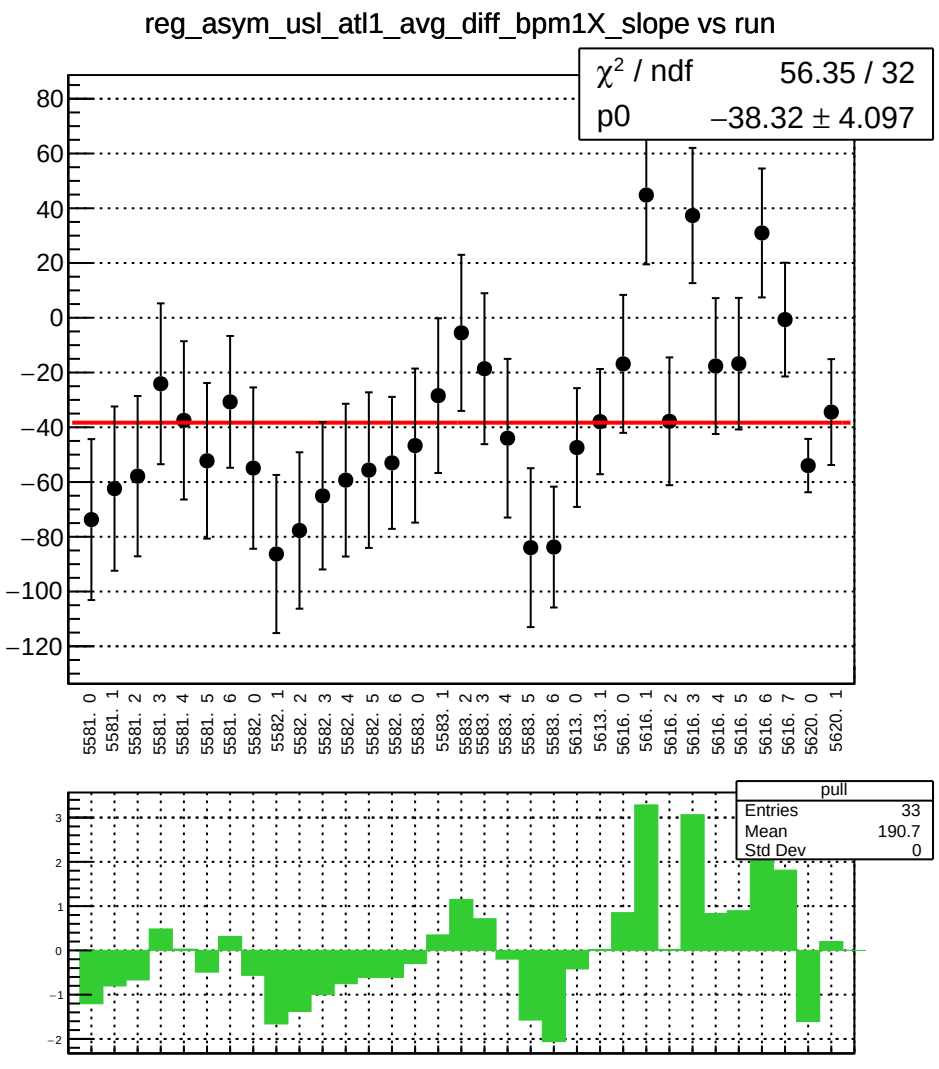

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 23.62 / 32
p0 −6.596 ± 4.096
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −61.91
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.02603
Std Dev 0.8456
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

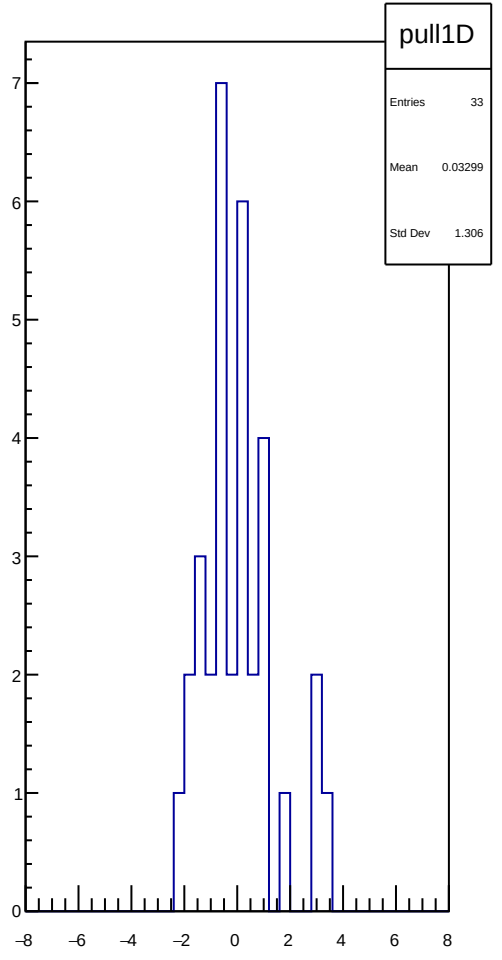

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.52 / 32
p0 1.147 ± 3.078
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.1107
Std Dev 0.8896
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

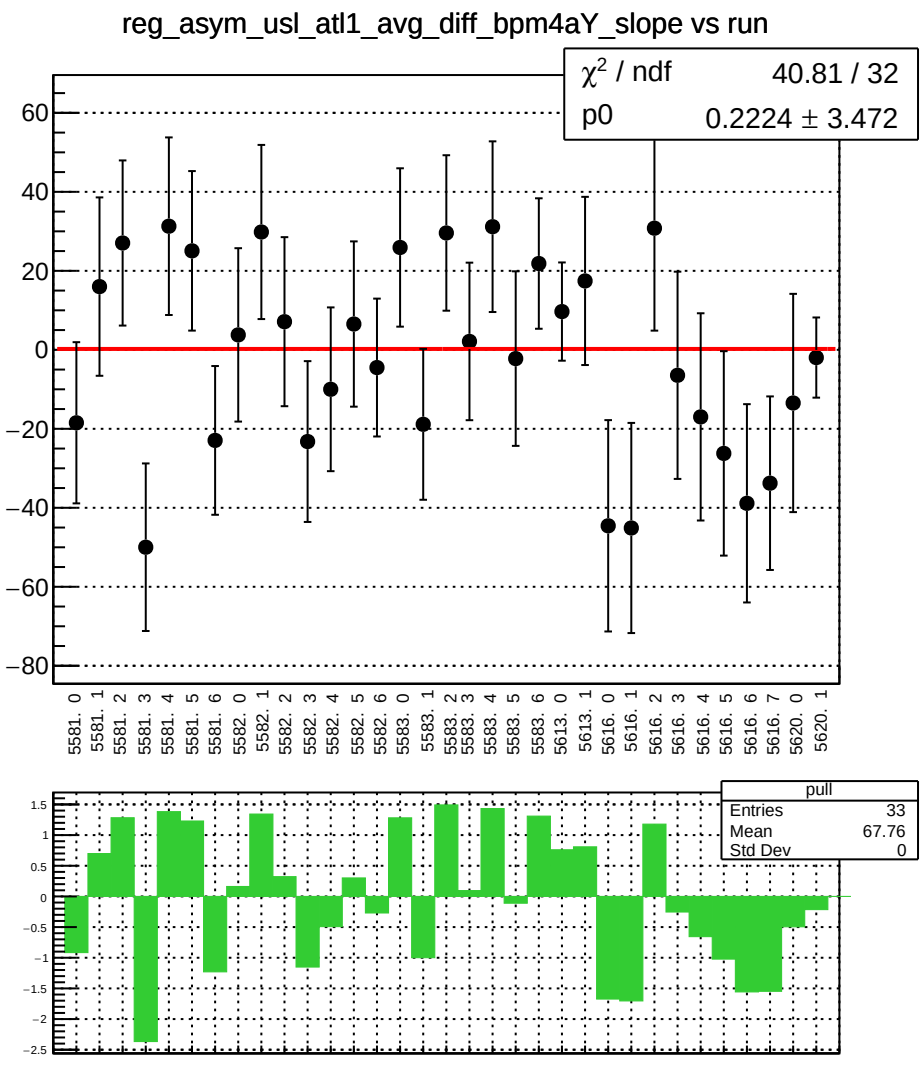

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.26 / 32
p0 70.08 ± 3.199
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 112.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.02227
Std Dev 0.9085
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

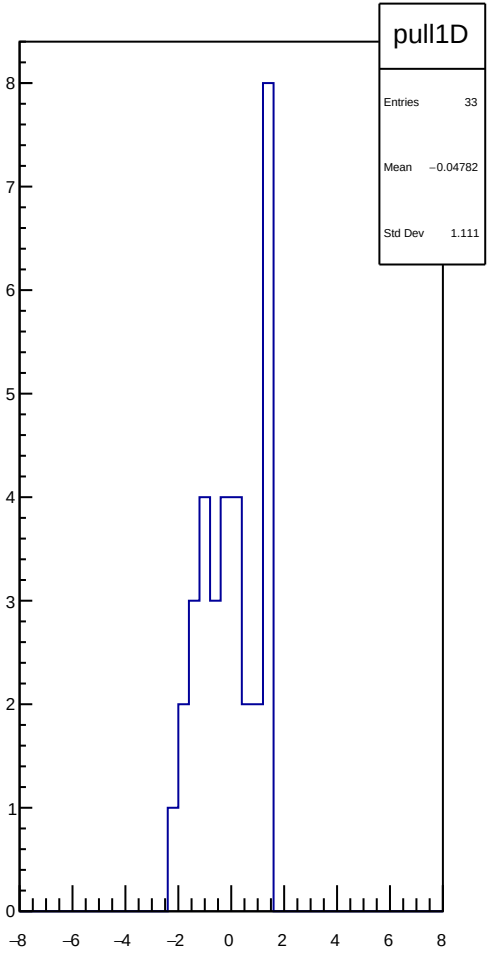

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.49 / 32
p0 −1.374 ± 4.04
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1023
Std Dev 0.9398
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

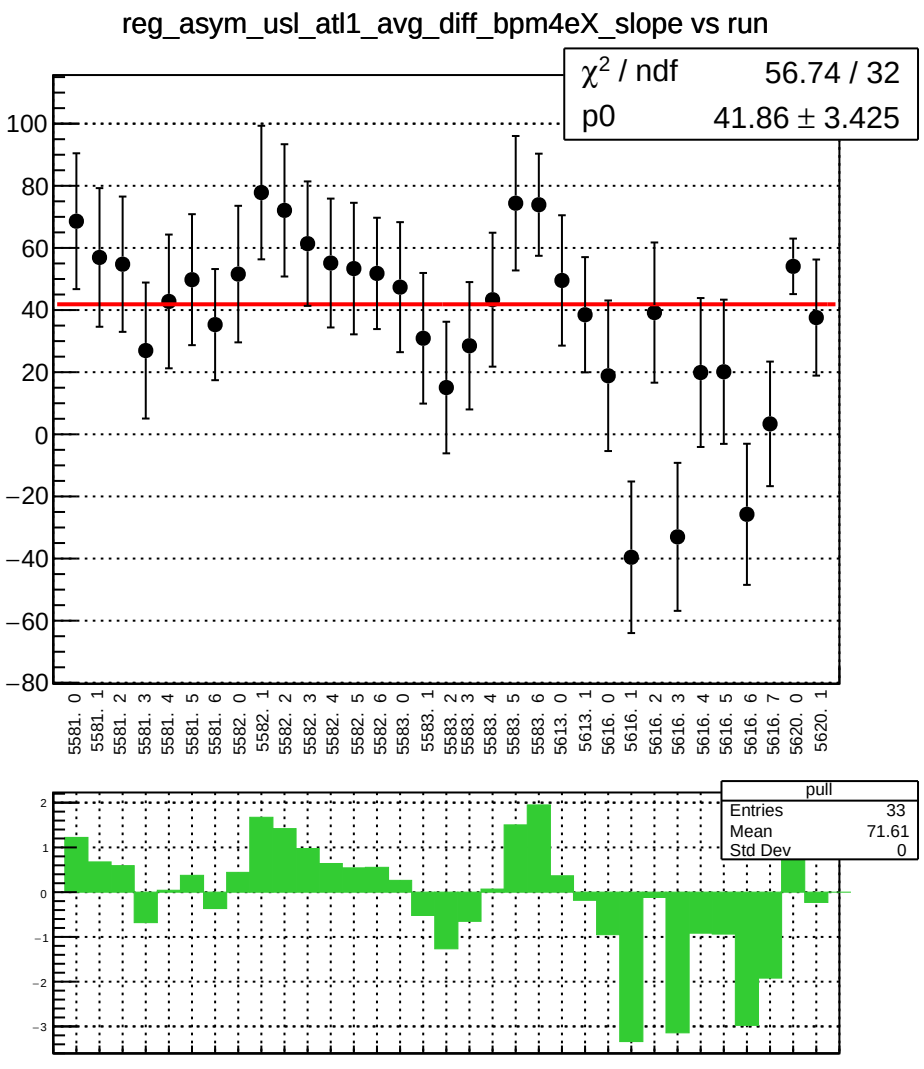

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 2739 / 32
p0 −11.18 ± 0.1585
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −17.47
Std Dev 0
5
0
−5
−10
−15
−20
−25
pull1D
Entries 33
Mean 4.188
Std Dev 2.978
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

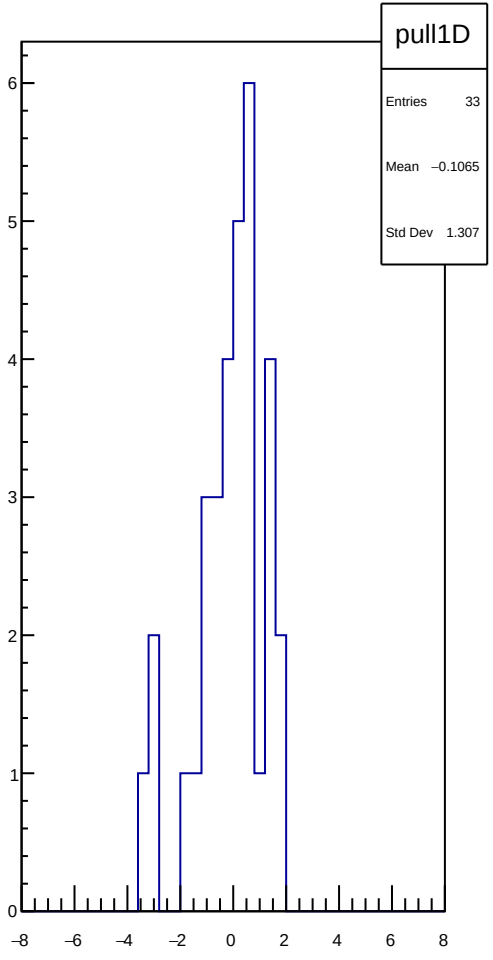

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 56.35 / 32
p0 −38.32 ± 4.097
80
60
40
20
0
−20
−40
−60
−80
−100
−120
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 190.7
Std Dev 0
3
2
1
0
−1
−2

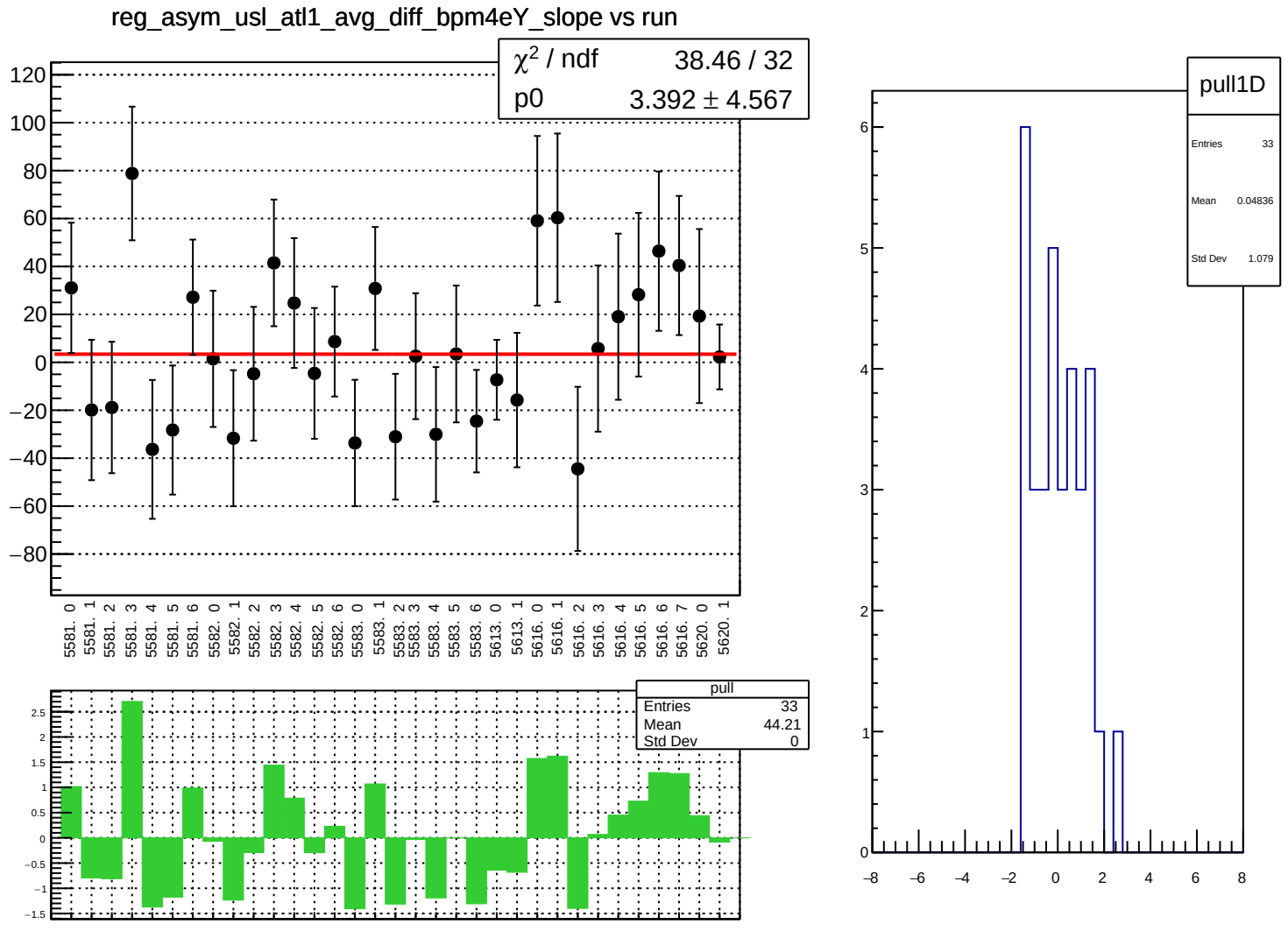

pull1D
Entries 33
Mean 0.03299
Std Dev 1.306
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

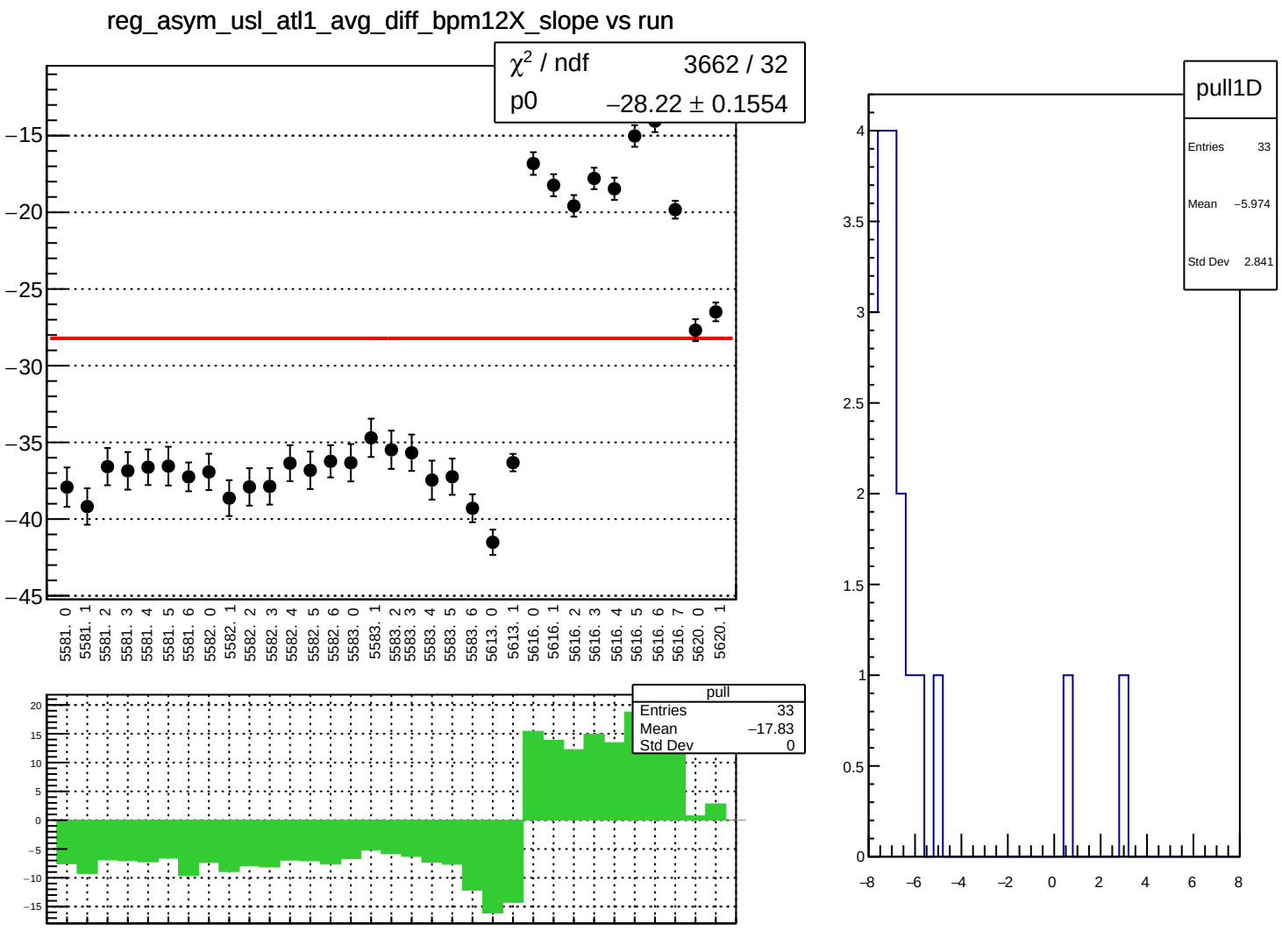

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.81 / 32
p0 0.2224 ± 3.472
60
40
20
0
−20
−40
−60
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 67.76
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

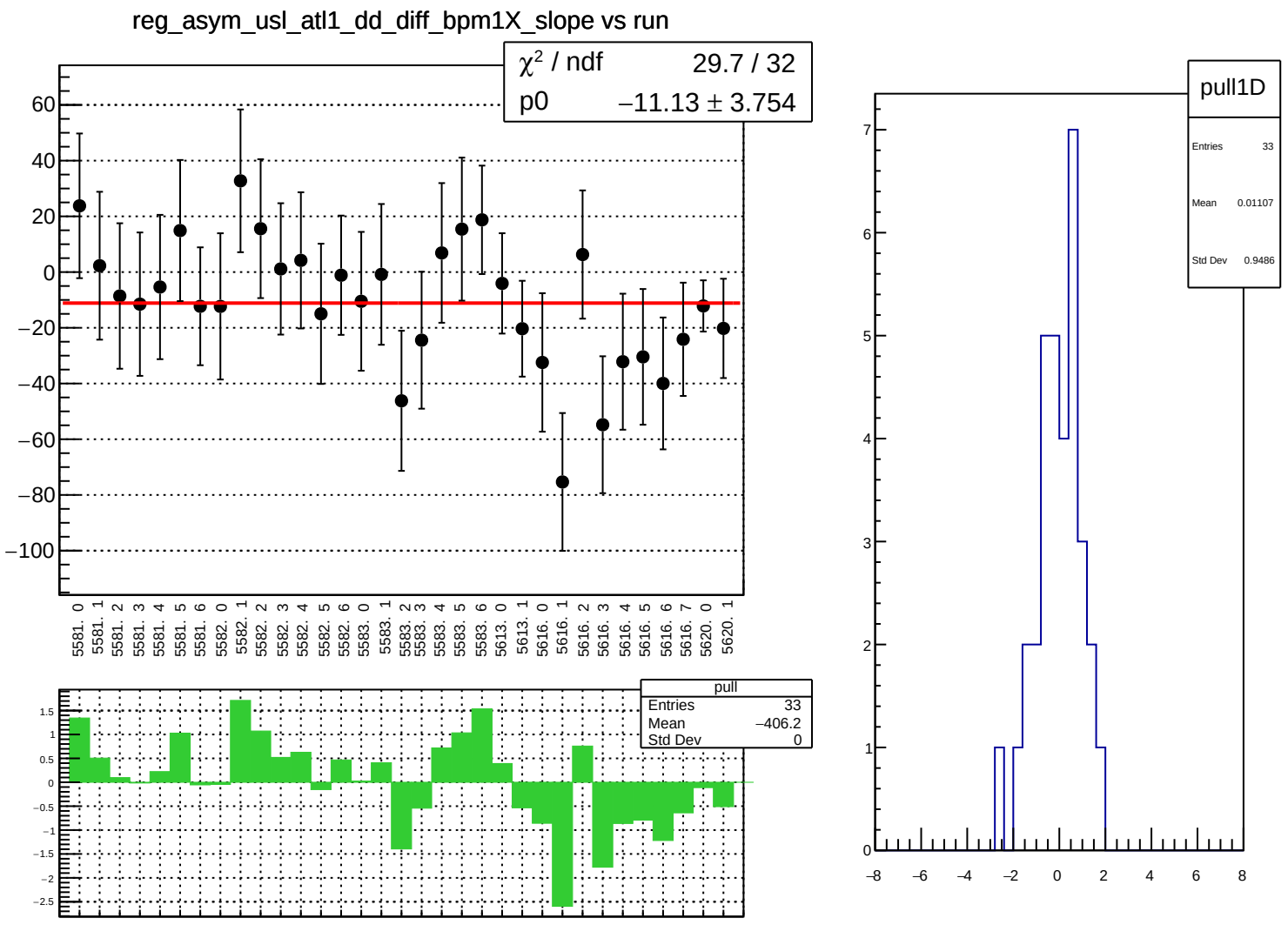

pull1D
Entries 33
Mean −0.04782
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

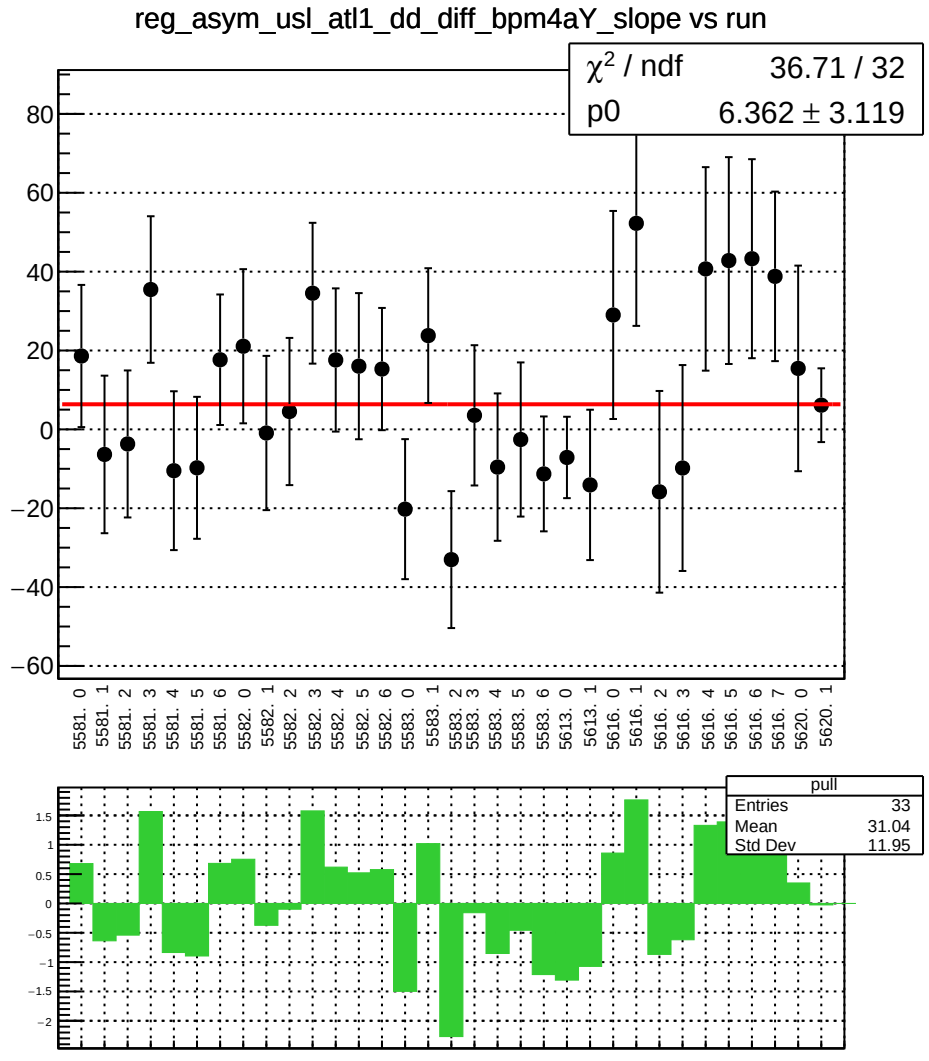

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.74 / 32
p0 41.86 ± 3.425
pull
Entries 33
Mean 71.61
Std Dev 0

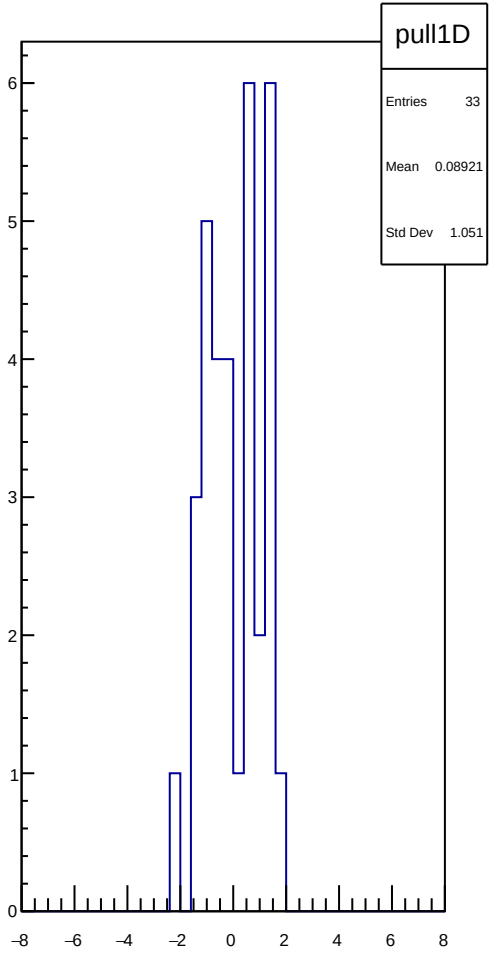

pull1D
Entries 33
Mean −0.1065
Std Dev 1.307

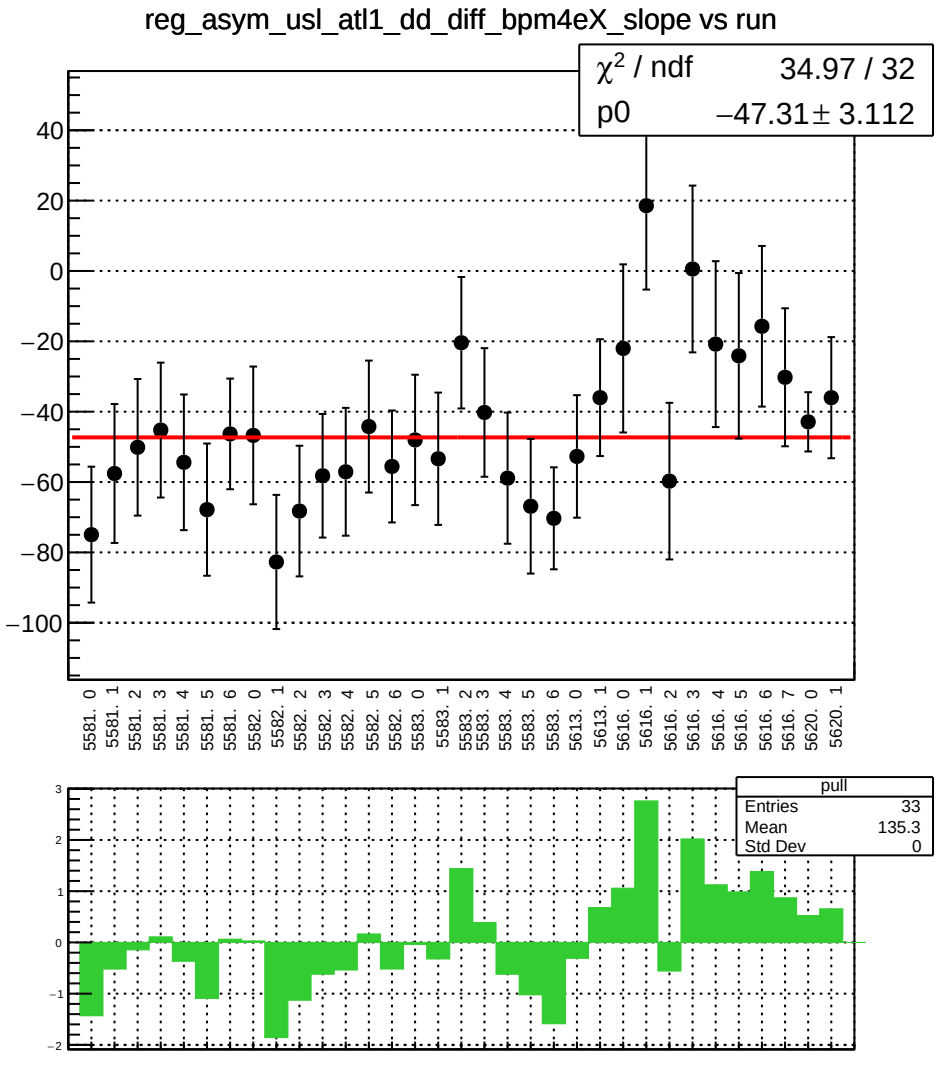

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 38.46 / 32
p0 3.392 ± 4.567
pull
Entries 33
Mean 44.21
Std Dev 0
pull1D
Entries 33
Mean 0.04836
Std Dev 1.079

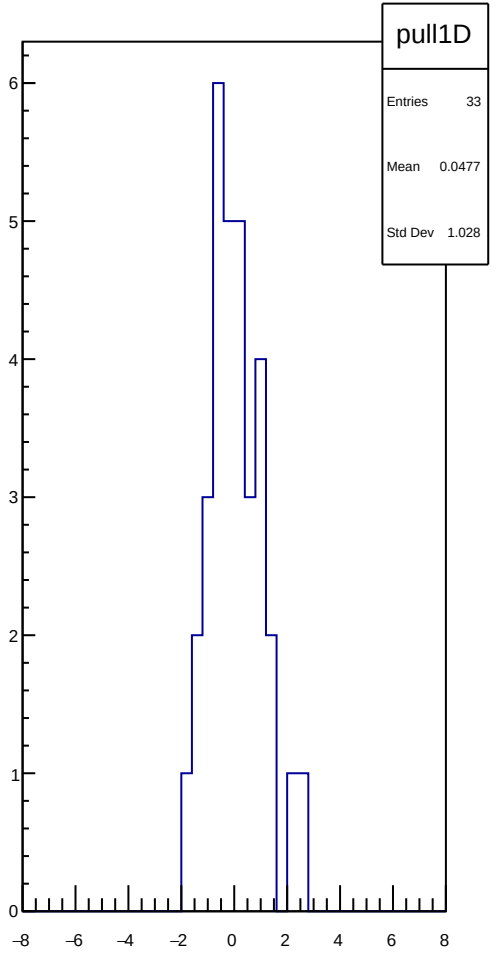

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 3662 / 32
p0 −28.22 ± 0.1554
pull
Entries 33
Mean −17.83
Std Dev 0
pull1D
Entries 33
Mean −5.974
Std Dev 2.841

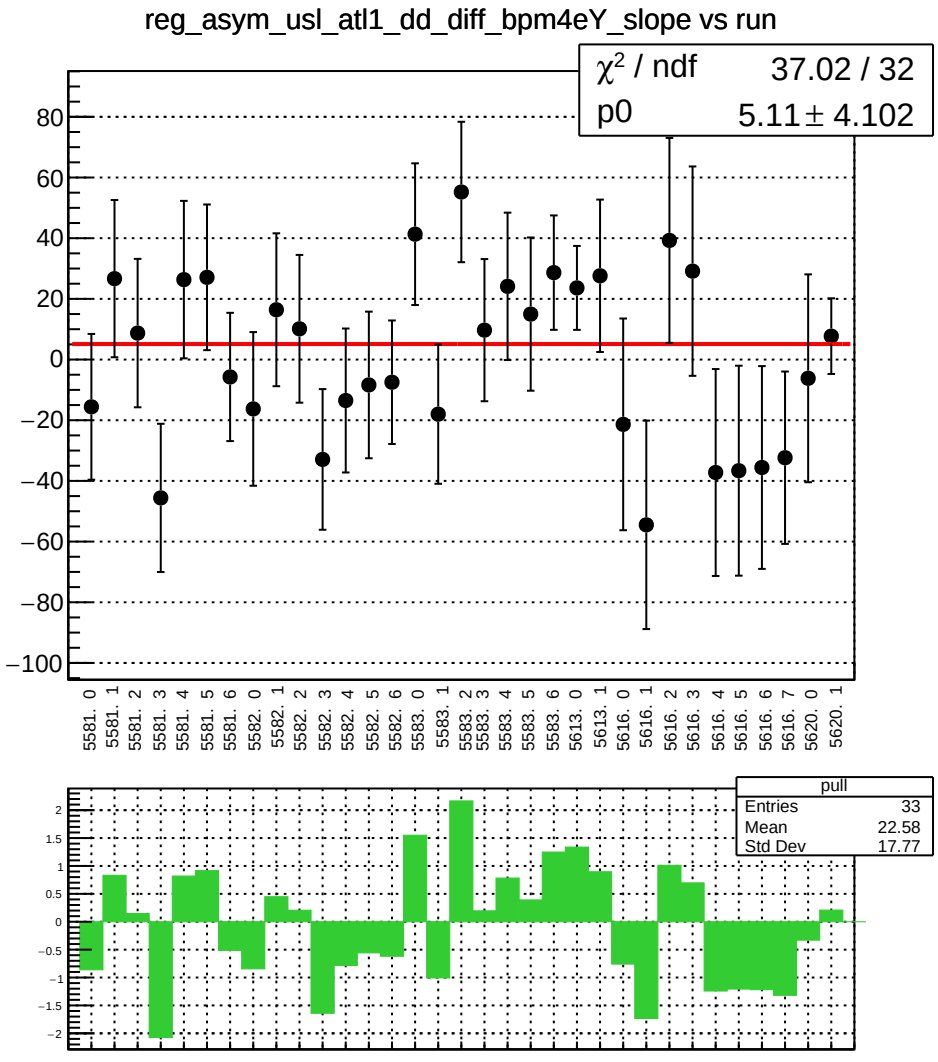

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 29.7 / 32
p0 −11.13 ± 3.754
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −406.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.01107
Std Dev 0.9486
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

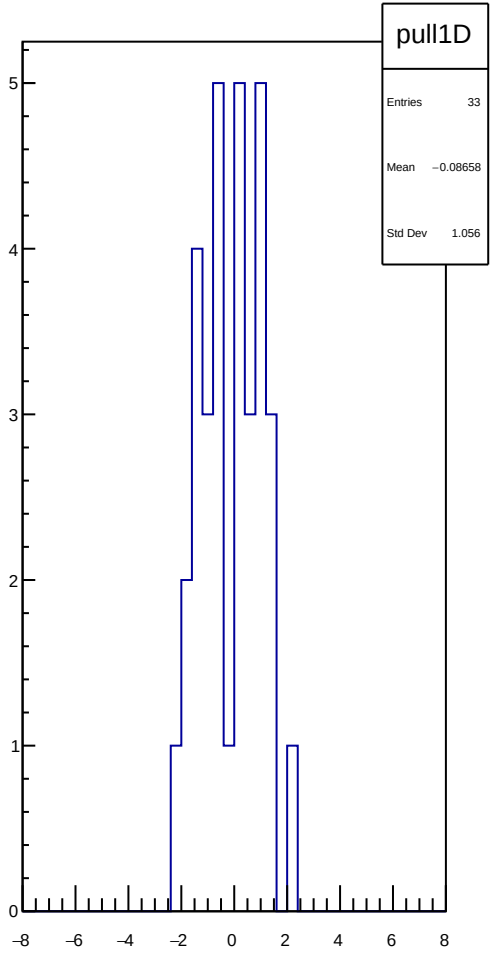

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.71 / 32
p0 6.362 ± 3.119
pull
Entries 33
Mean 31.04
Std Dev 11.95

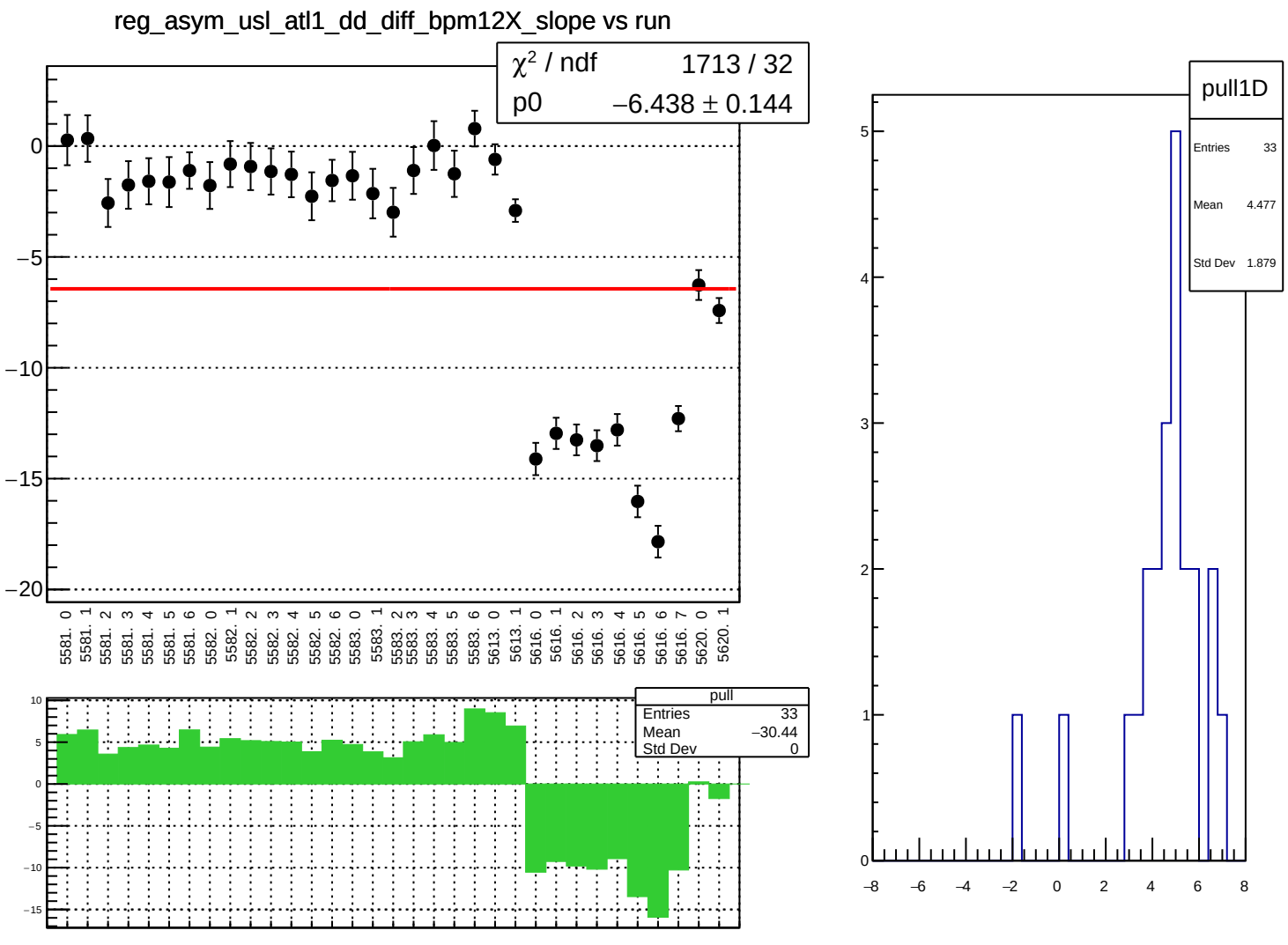

pull1D
Entries 33
Mean 0.08921
Std Dev 1.051

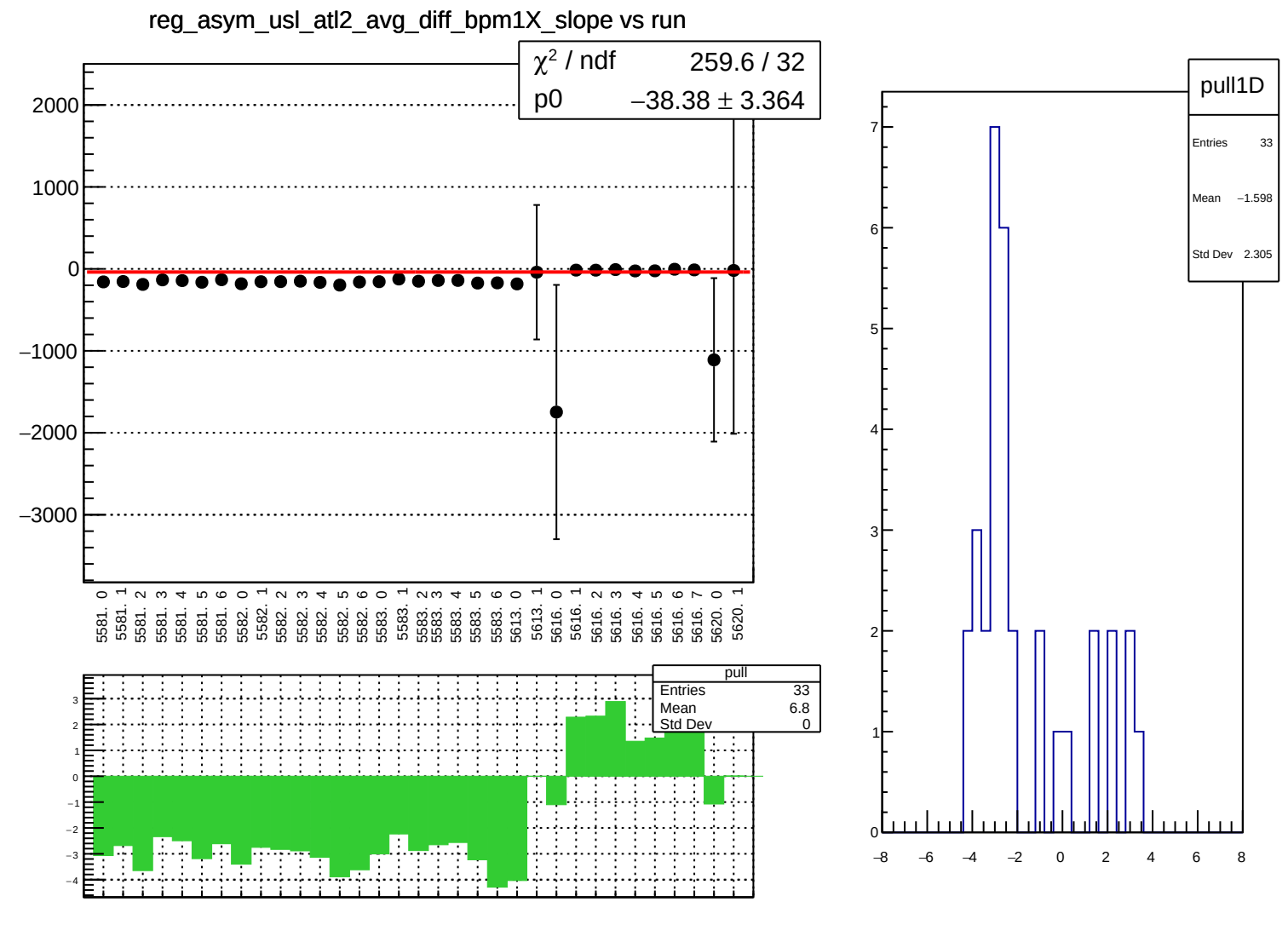

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.97 / 32
p0 −47.31 ± 3.112
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 135.3
Std Dev 0
3
2
1
0
−1
−2

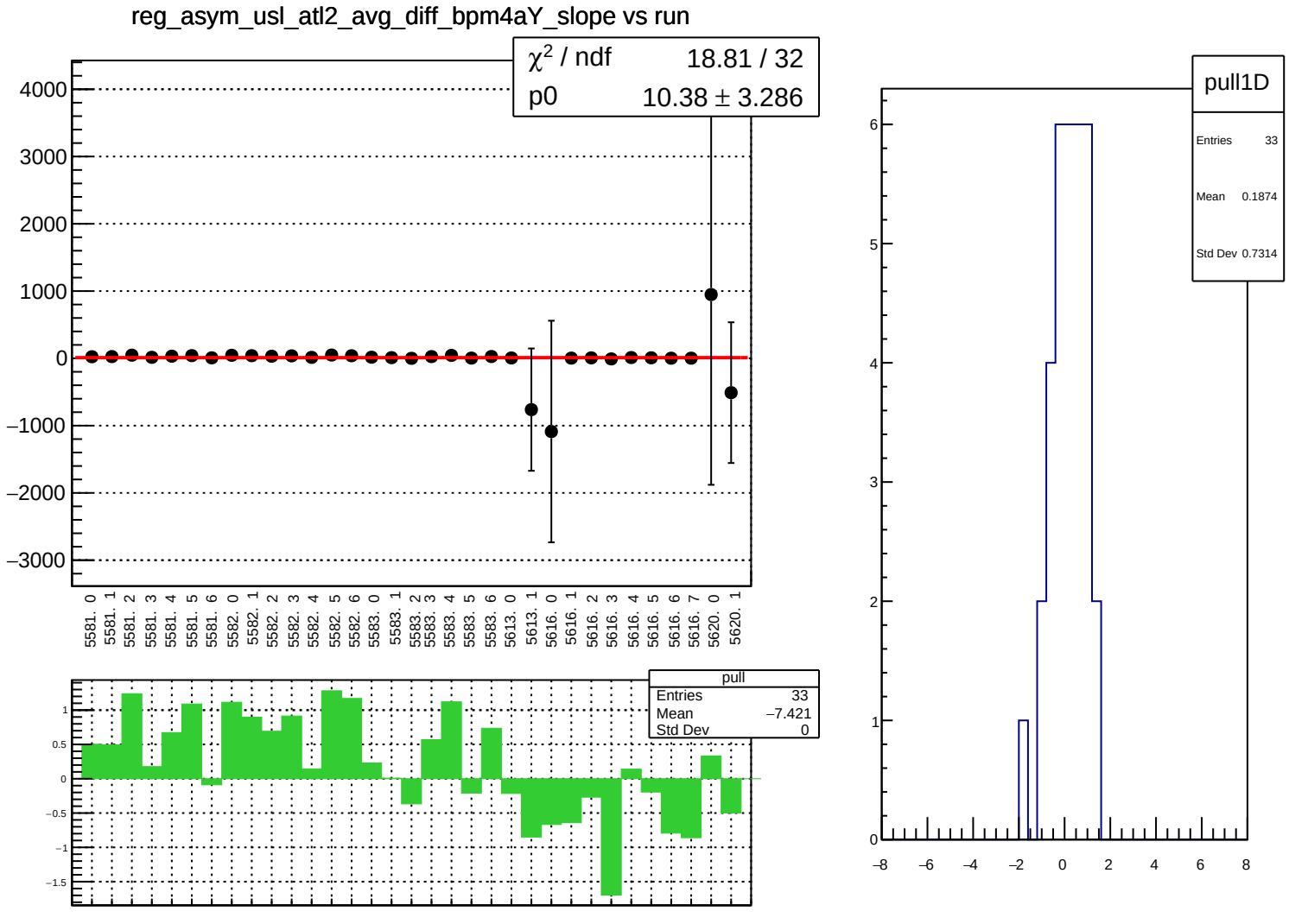

pull1D
Entries 33
Mean 0.0477
Std Dev 1.028
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

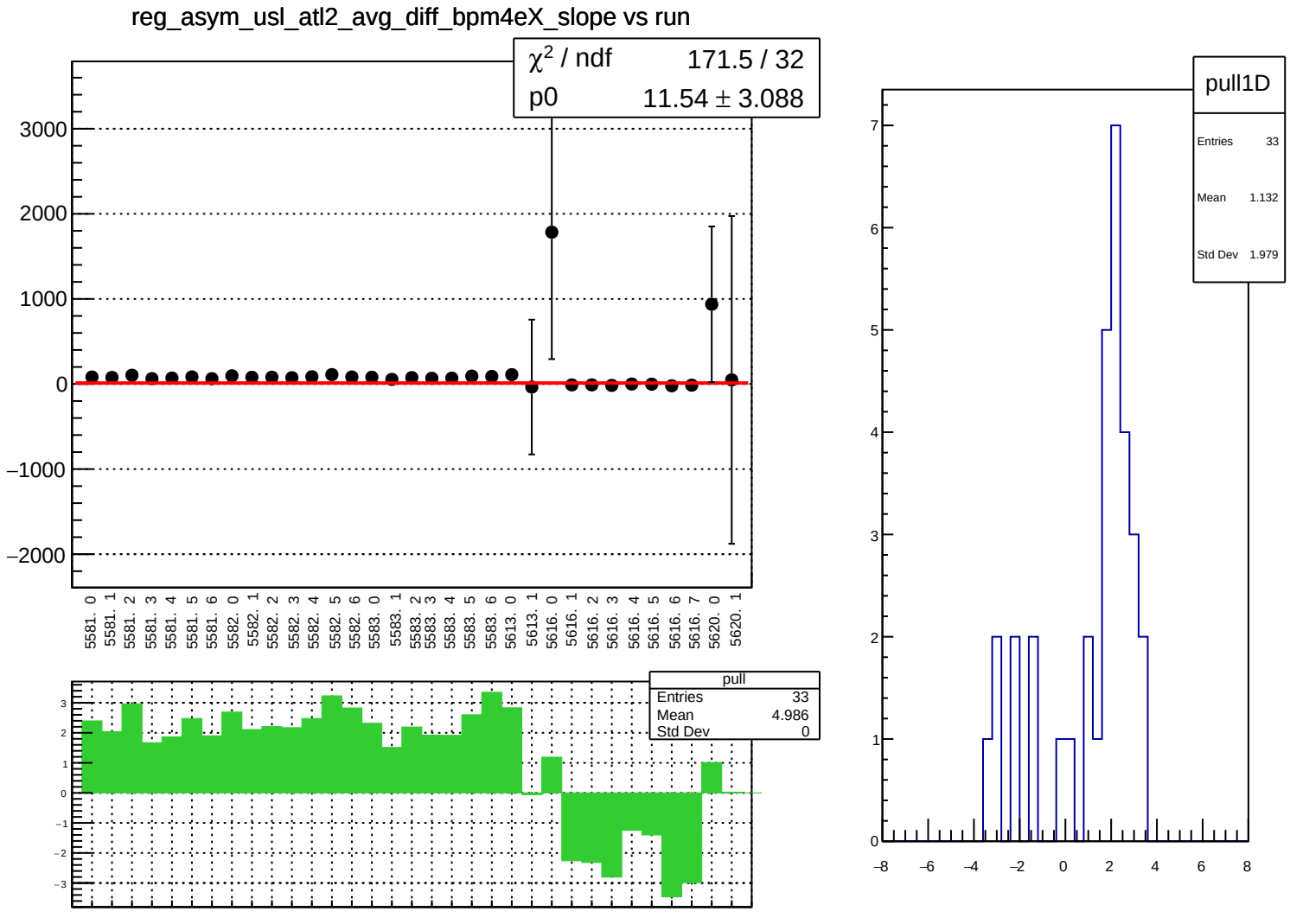

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.02 / 32
p0 5.11 ± 4.102
80
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 22.58
Std Dev 17.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

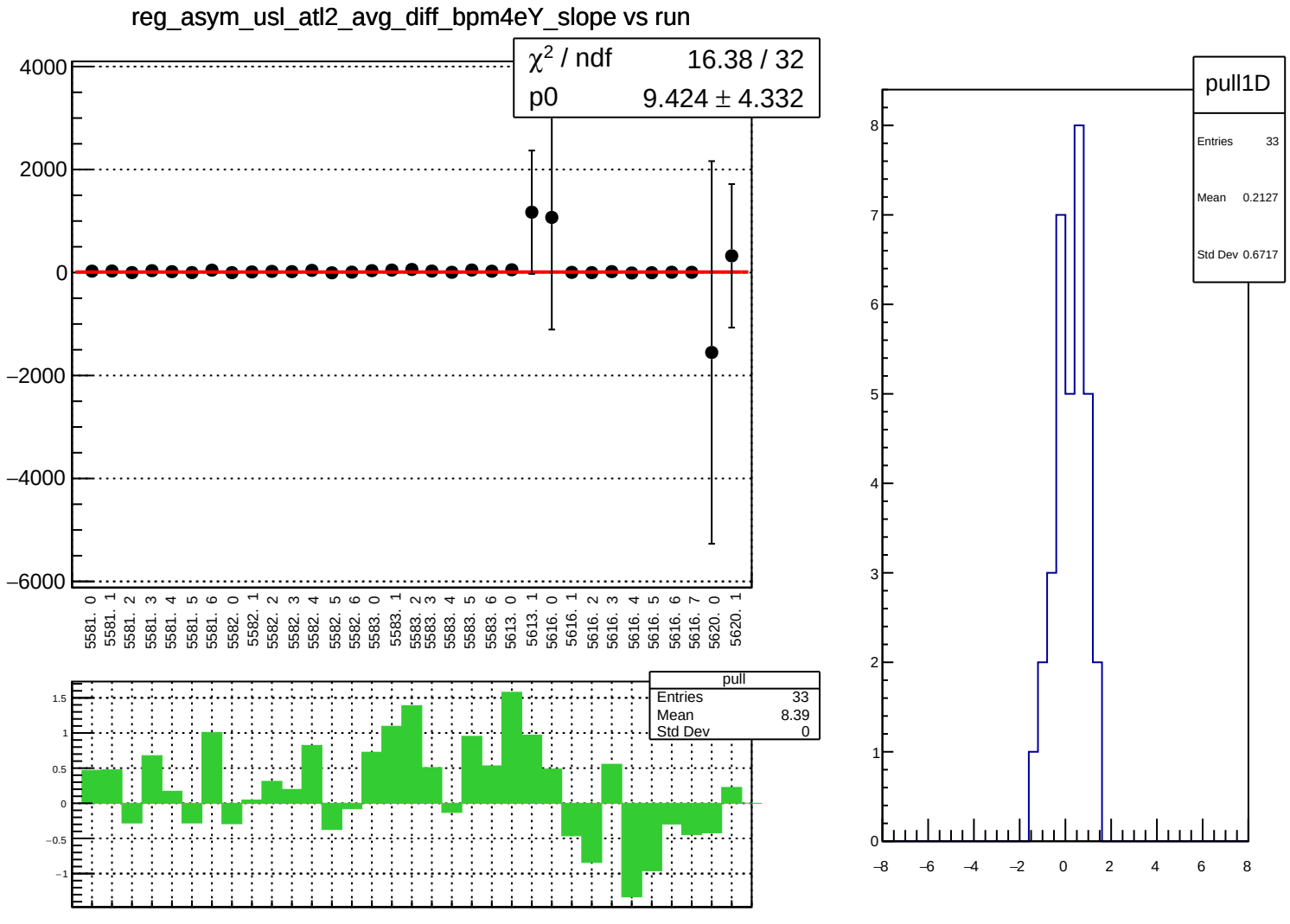

pull1D
Entries 33
Mean −0.08658
Std Dev 1.056
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

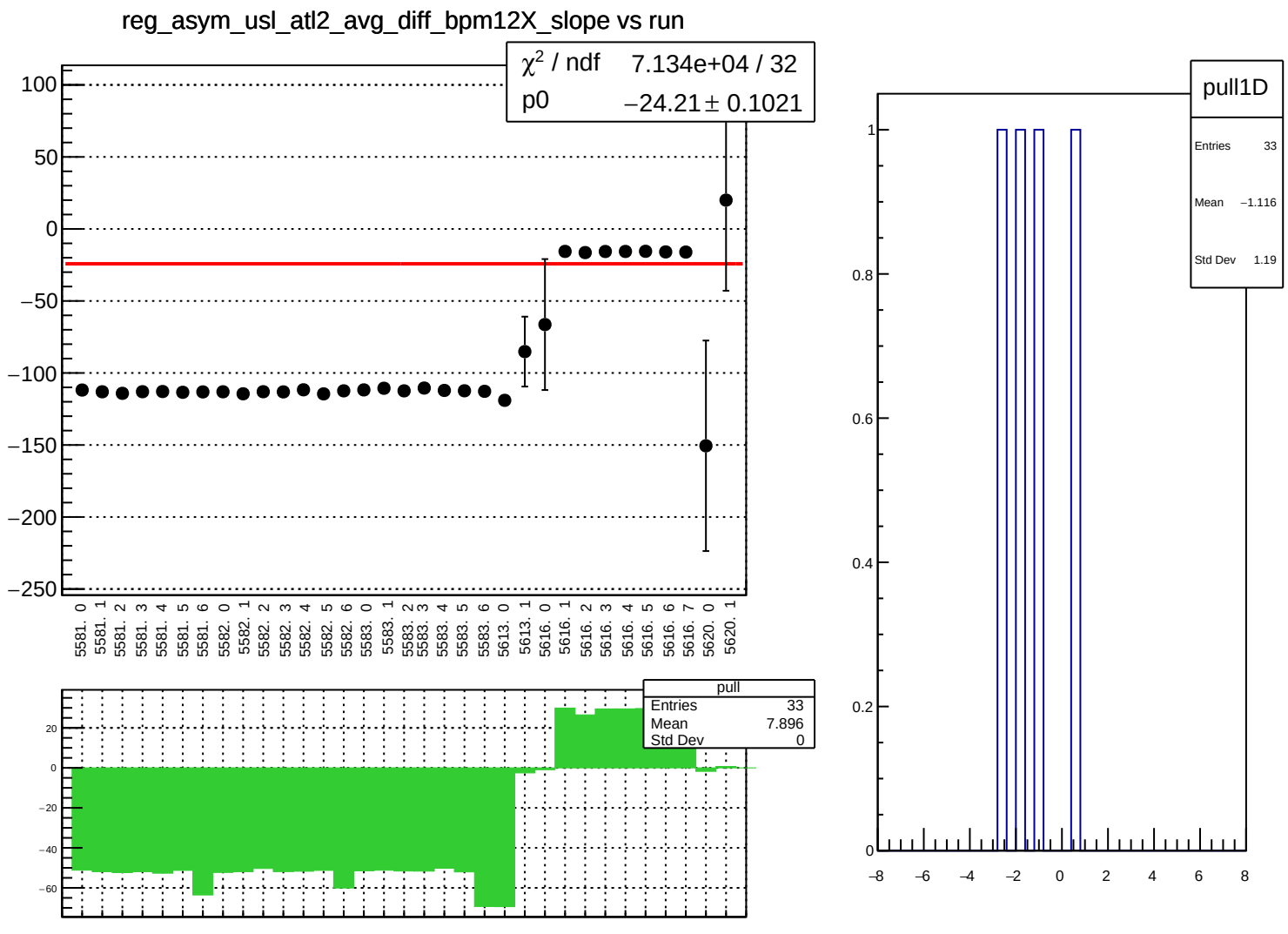

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 1713 / 32
p0 −6.438 ± 0.144
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −30.44
Std Dev 0
10
5
0
−5
−10
−15
pull1D
Entries 33
Mean 4.477
Std Dev 1.879
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

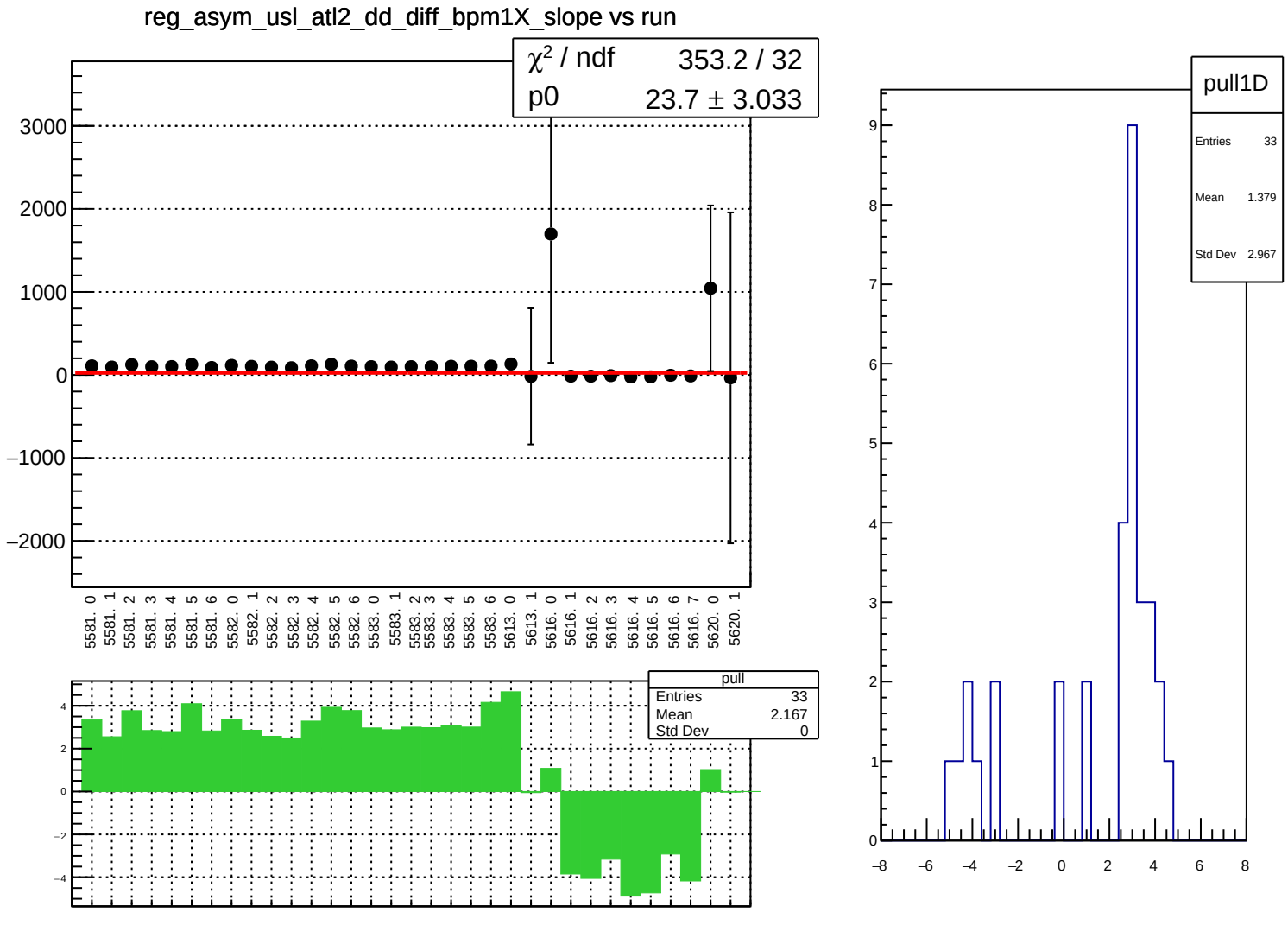

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 259.6 / 32
p0 −38.38 ± 3.364
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 6.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 33
Mean −1.598
Std Dev 2.305
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

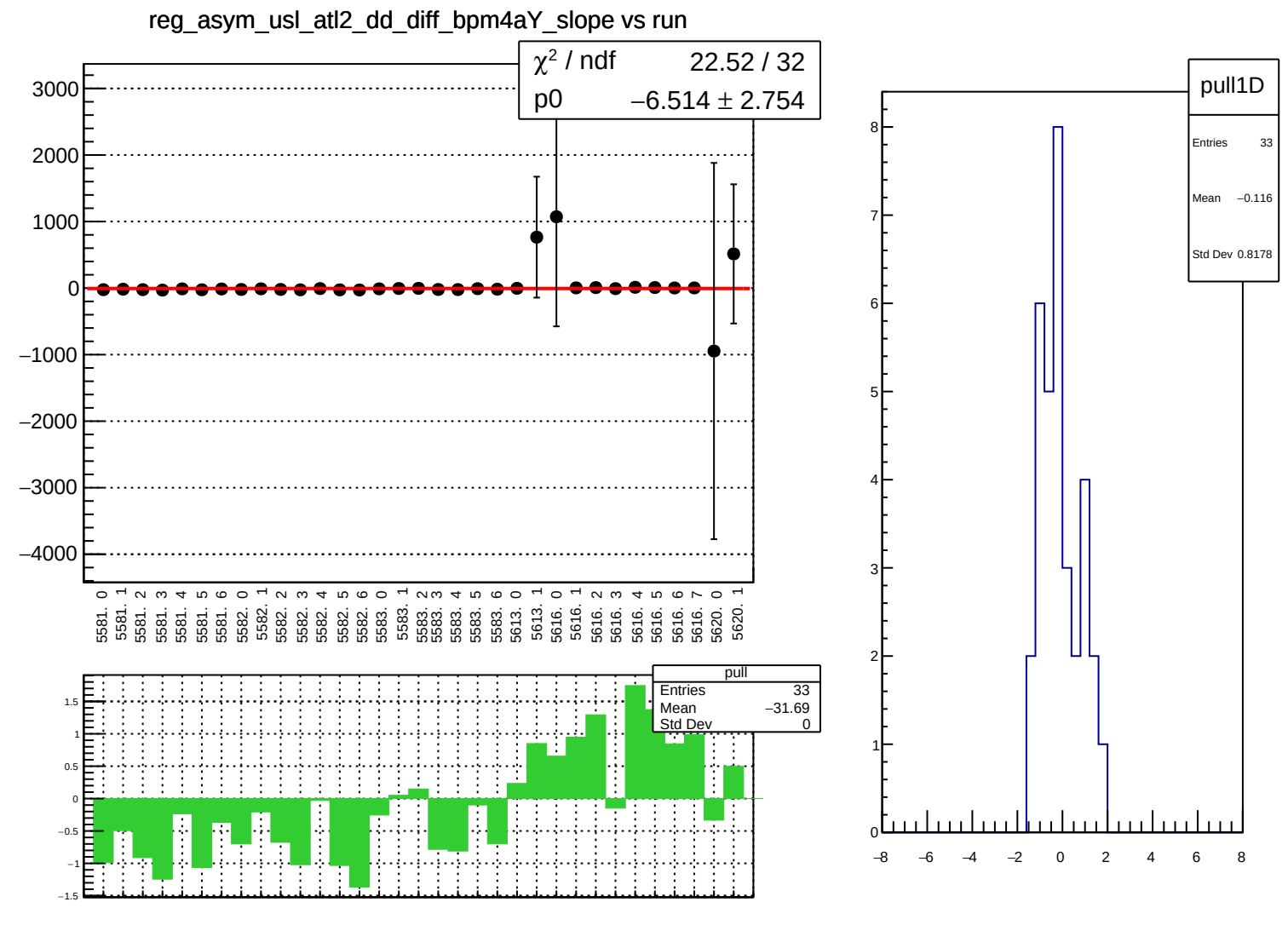

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.81 / 32
p0 10.38 ± 3.286
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −7.421
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1874
Std Dev 0.7314
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

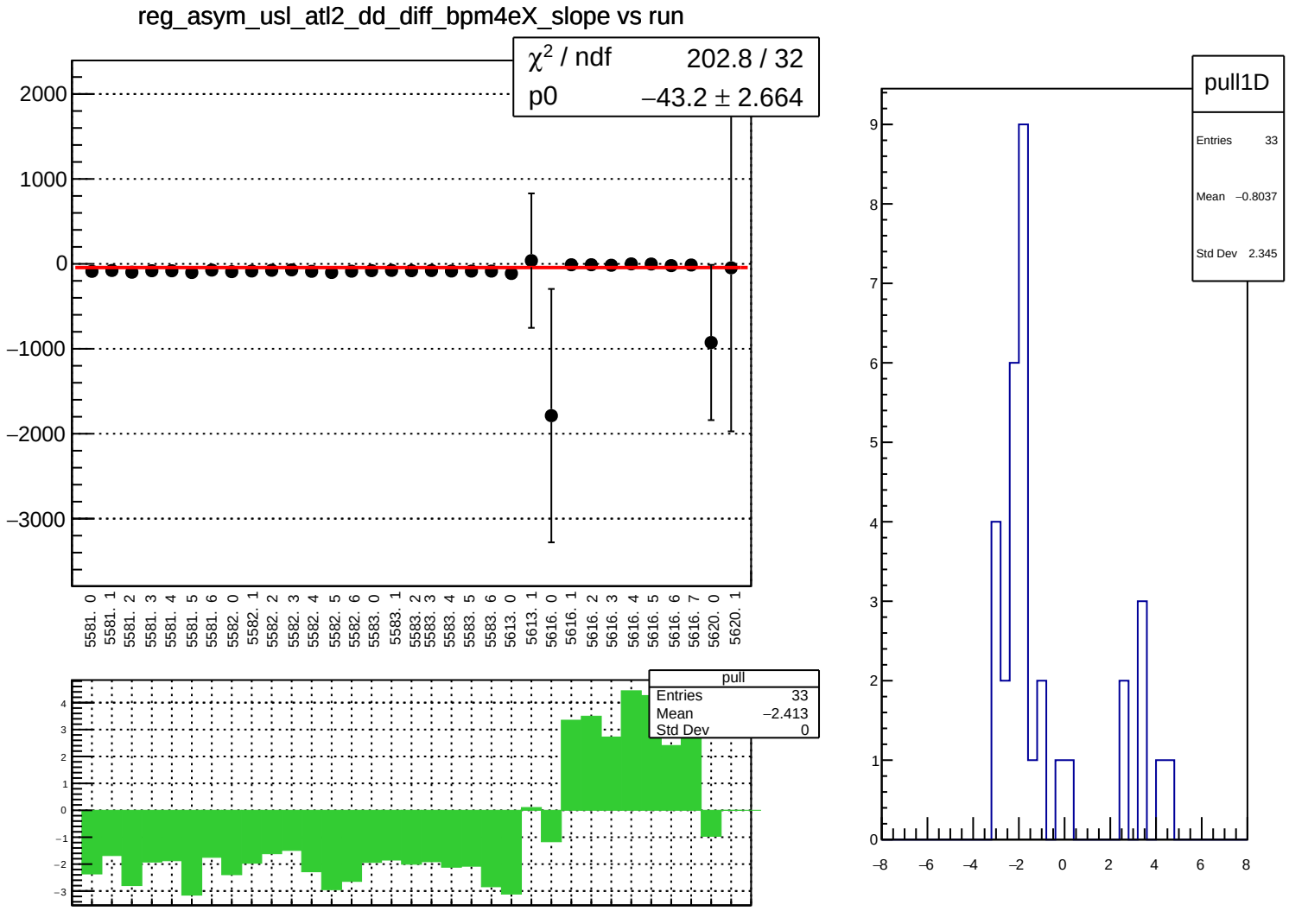

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 171.5 / 32
p0 11.54 ± 3.088
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 4.986
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 1.132
Std Dev 1.979
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

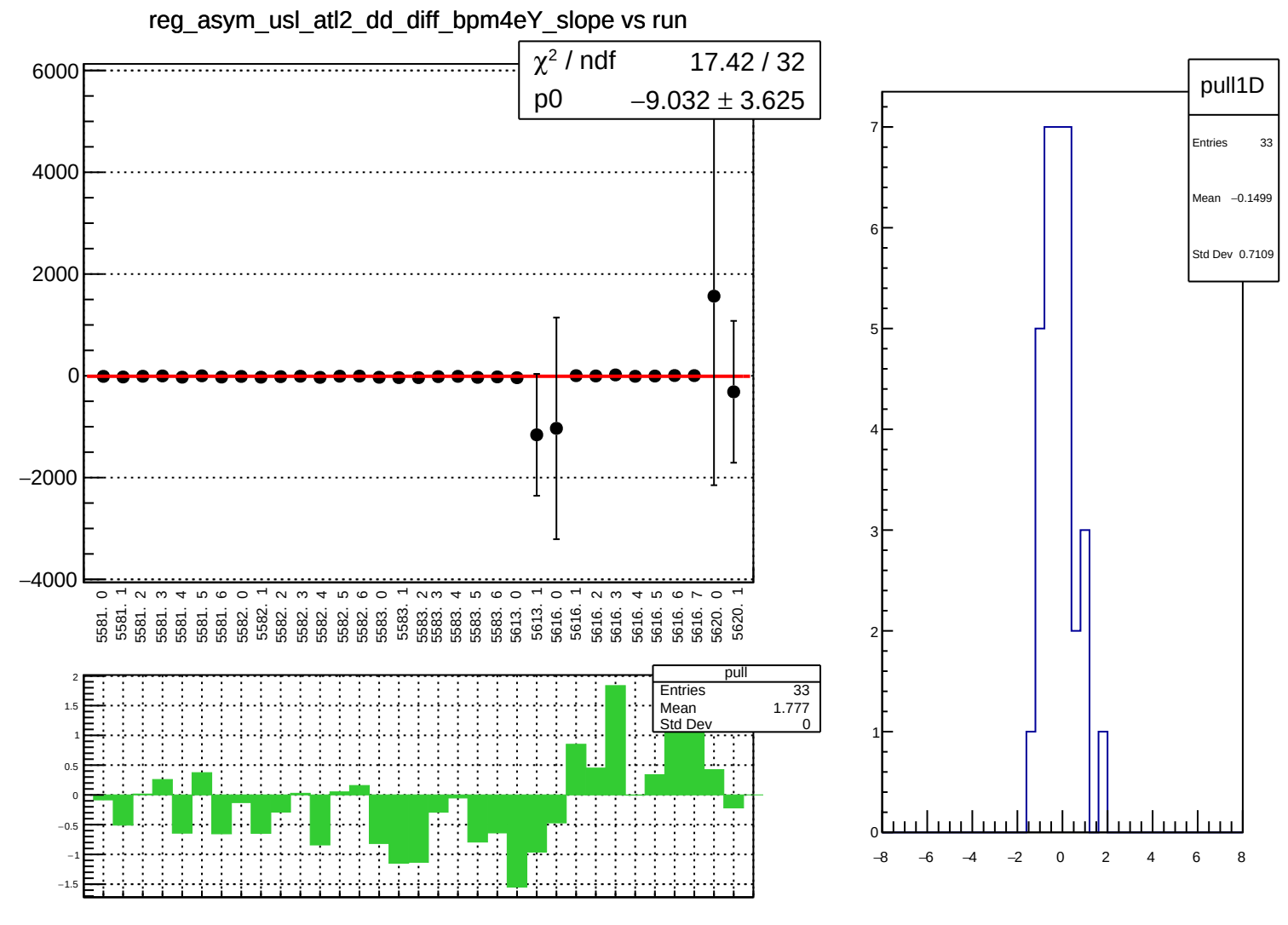

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.38 / 32
p0 9.424 ± 4.332
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 8.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.2127
Std Dev 0.6717
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

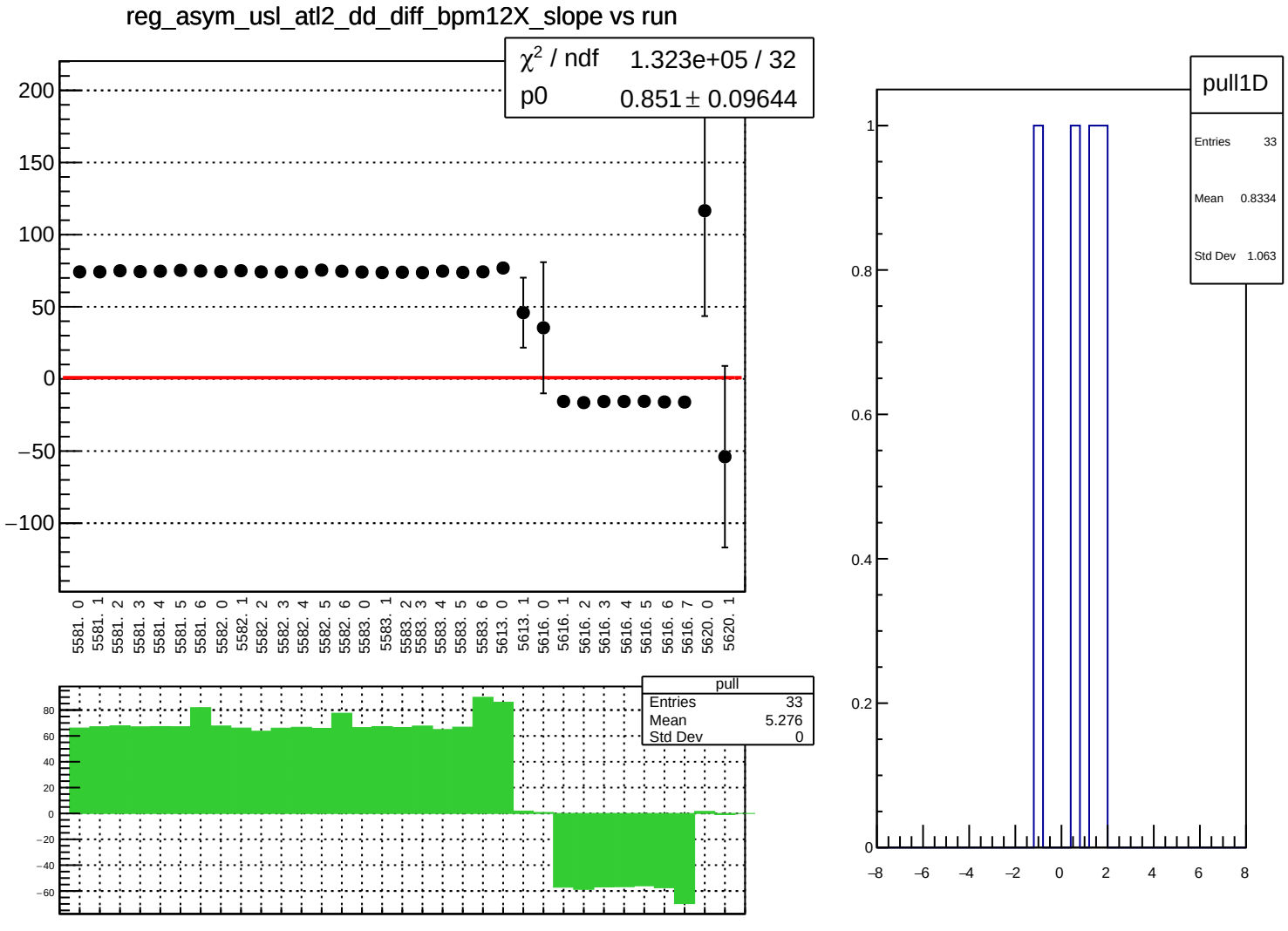

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 7.134e+04 / 32
p0 −24.21 ± 0.1021
100
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 7.896
Std Dev 0
20
0
−20
−40
−60
pull1D
Entries 33
Mean −1.116
Std Dev 1.19
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

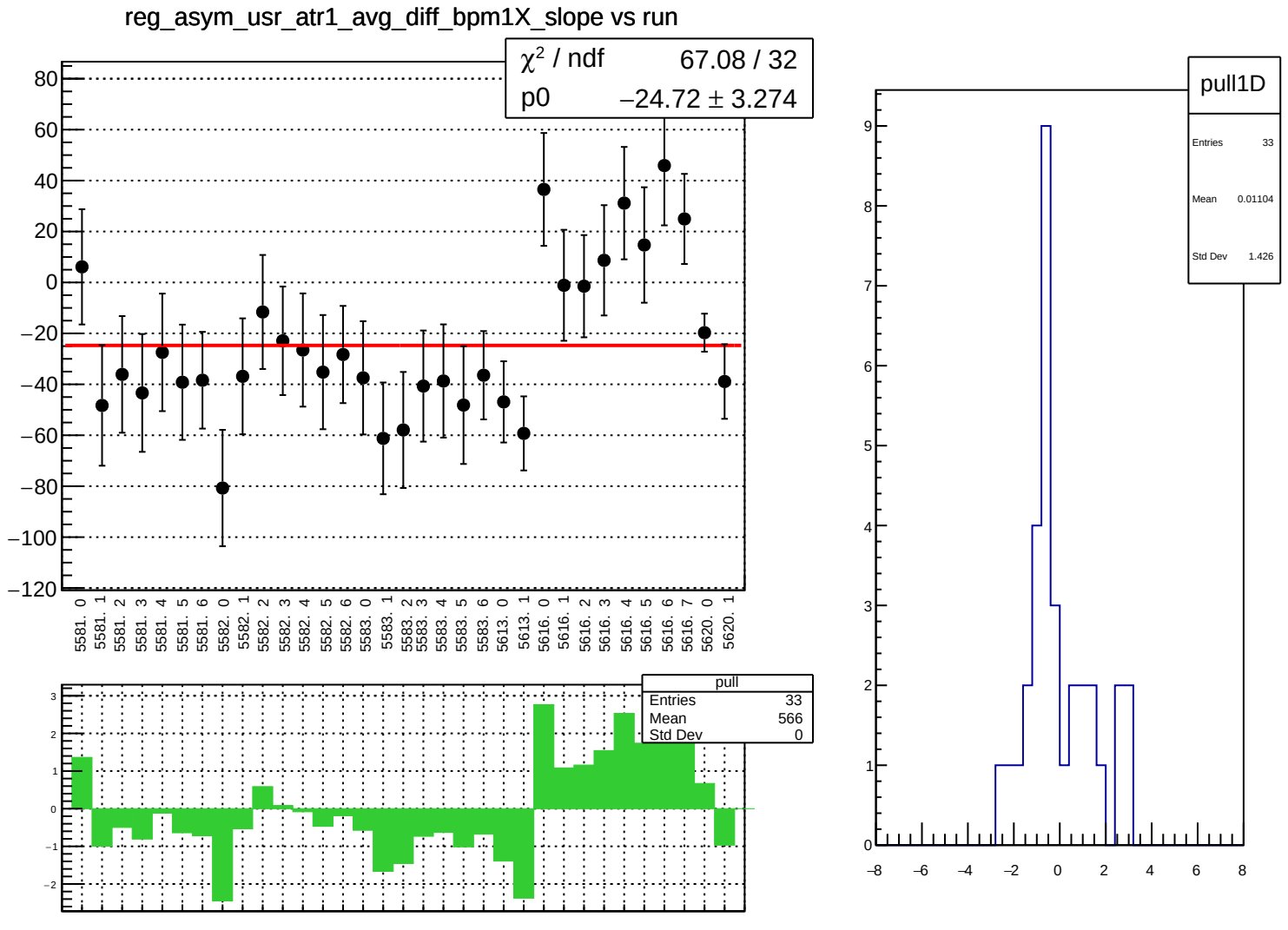

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 353.2 / 32
p0 23.7 ± 3.033
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2.167
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 33
Mean 1.379
Std Dev 2.967
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

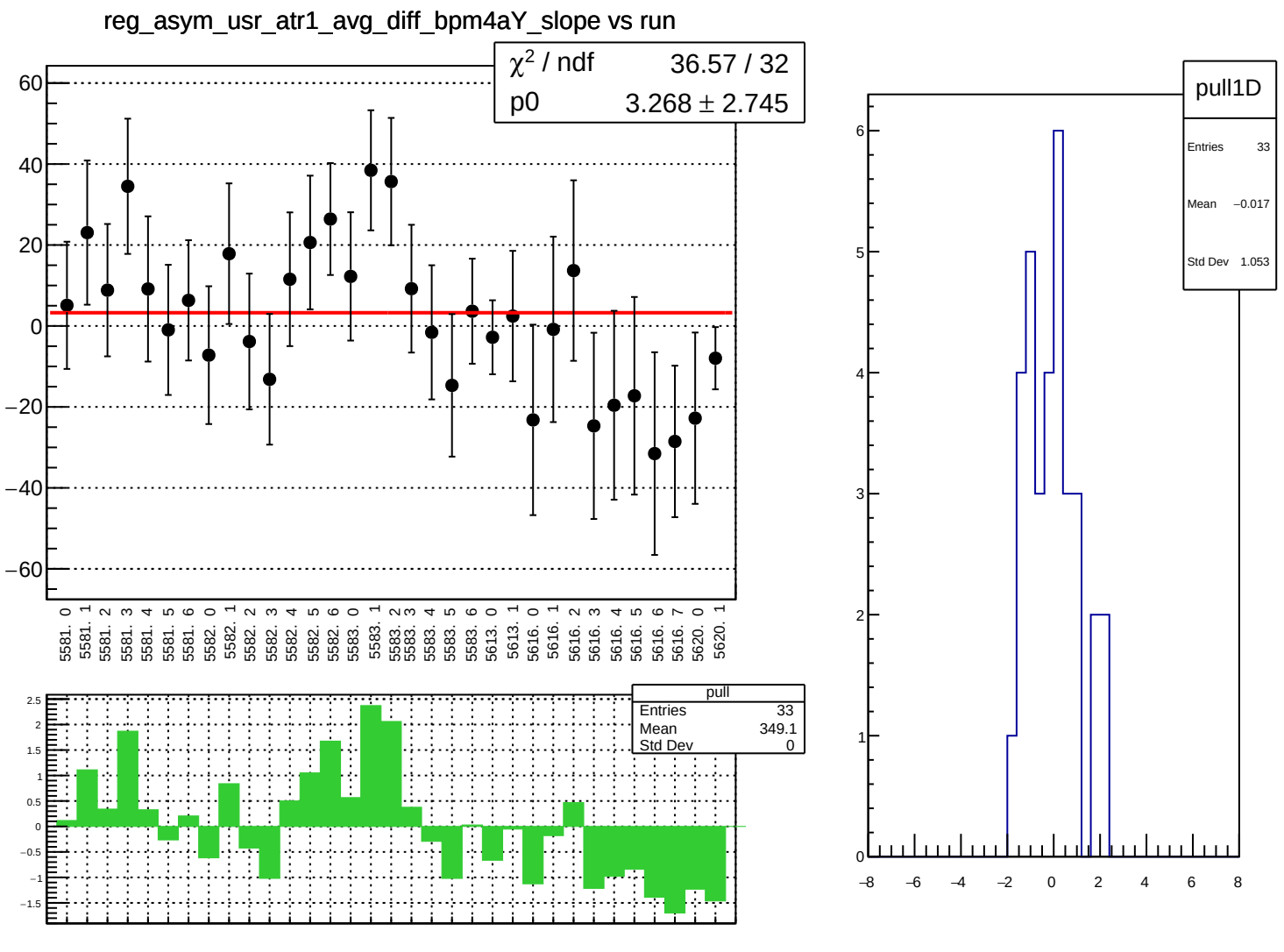

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.52 / 32
p0 −6.514 ± 2.754
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −31.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.116
Std Dev 0.8178
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

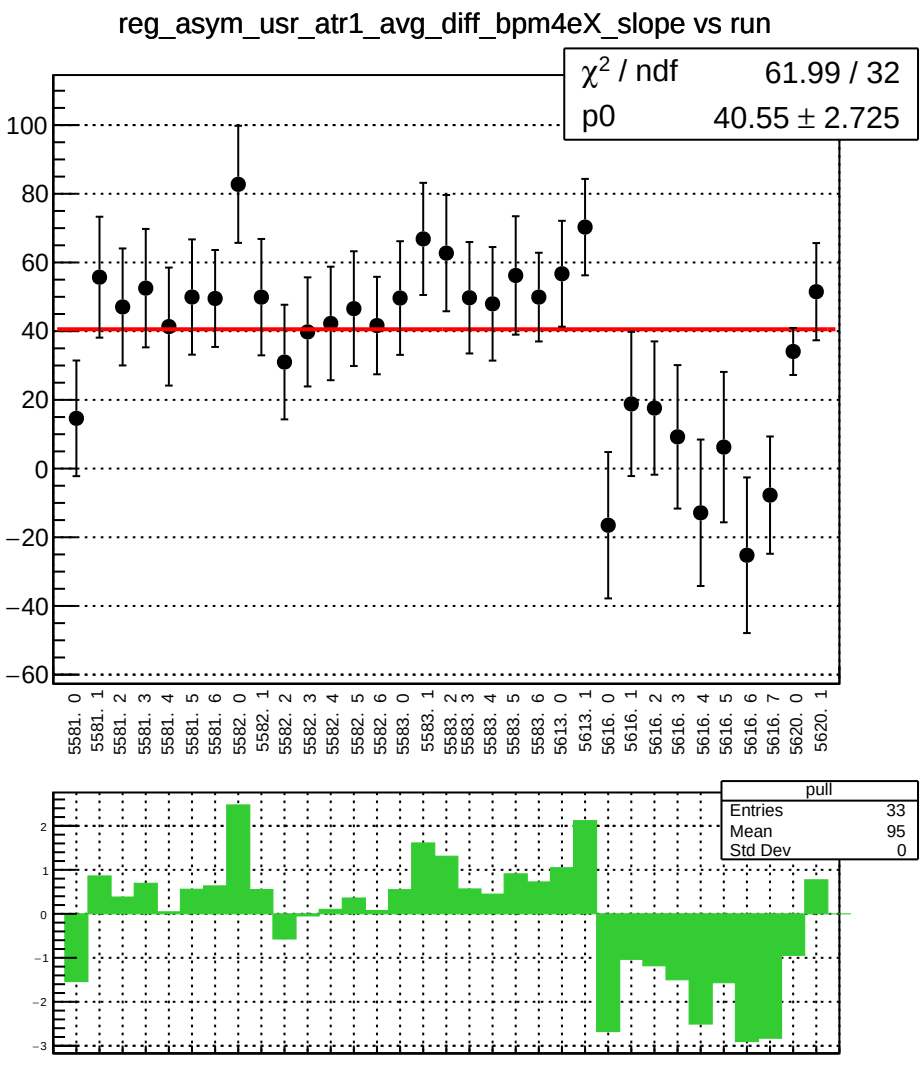

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 202.8 / 32
p0 −43.2 ± 2.664
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −2.413
Std Dev 0
pull1D
Entries 33
Mean −0.8037
Std Dev 2.345

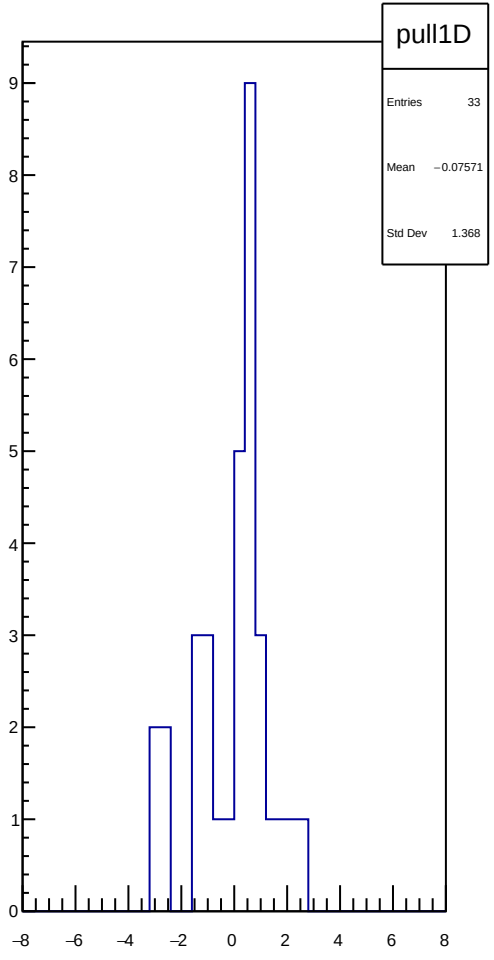

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.42 / 32
p0 −9.032 ± 3.625
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 1.777
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1499
Std Dev 0.7109
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

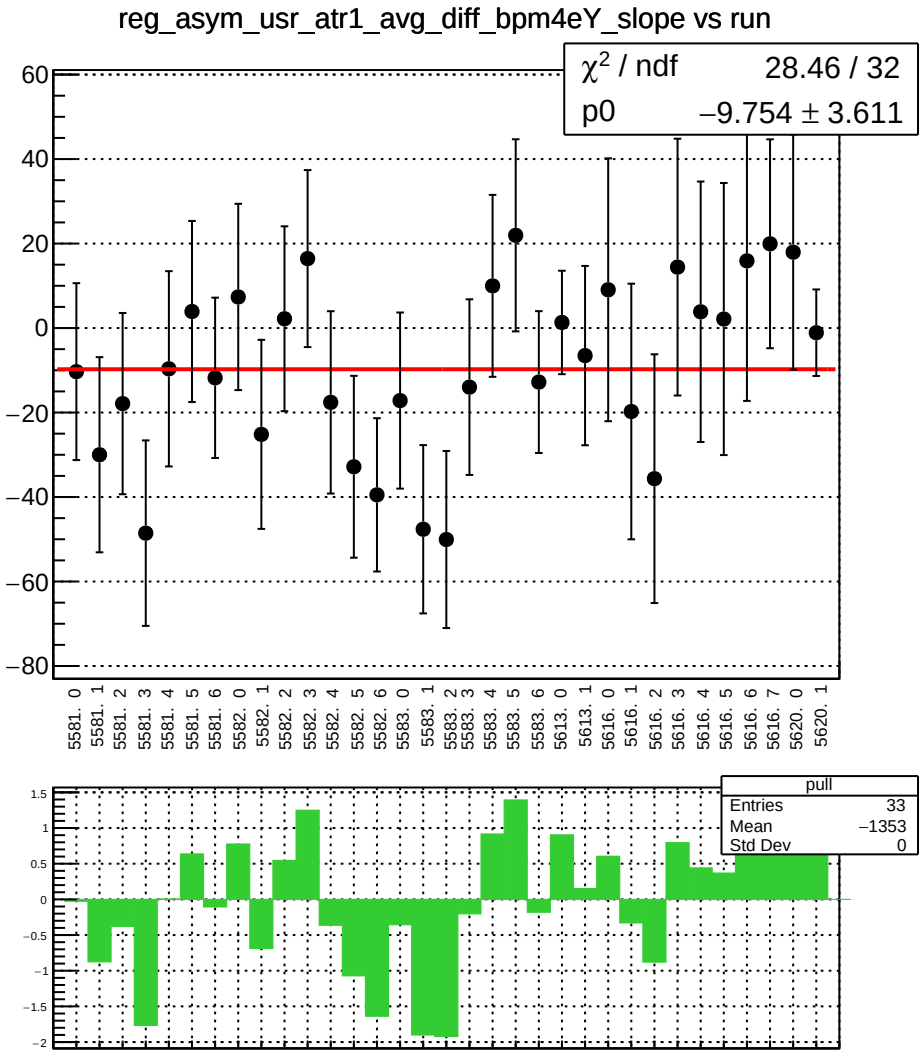

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 1.323e+05 / 32
p0 0.851 ± 0.09644
200
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5.276
Std Dev 0
80
60
40
20
0
−20
−40
−60
pull1D
Entries 33
Mean 0.8334
Std Dev 1.063
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

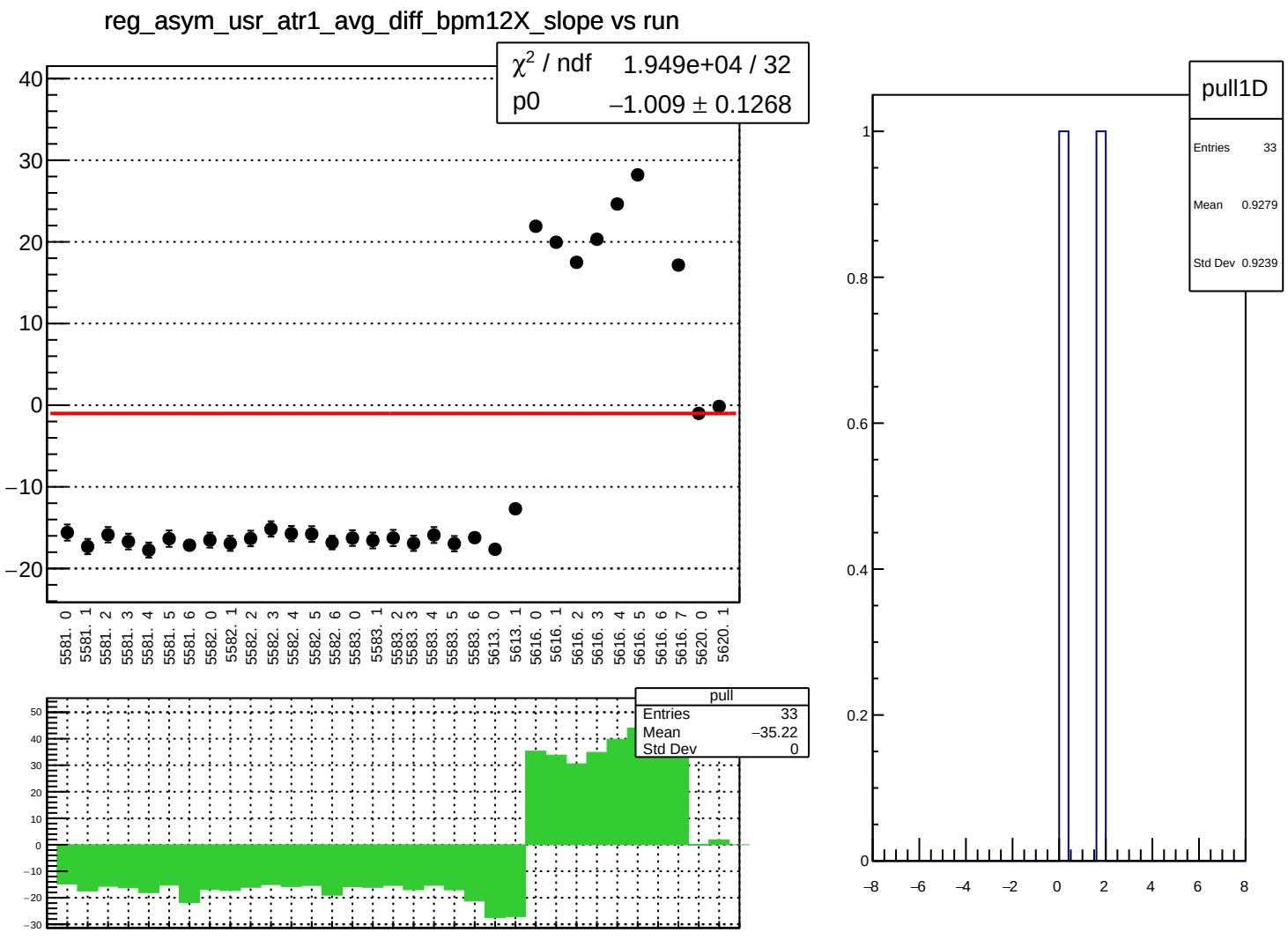

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 67.08 / 32
p0 −24.72 ± 3.274
pull
Entries 33
Mean 566
Std Dev 0
pull1D
Entries 33
Mean 0.01104
Std Dev 1.426

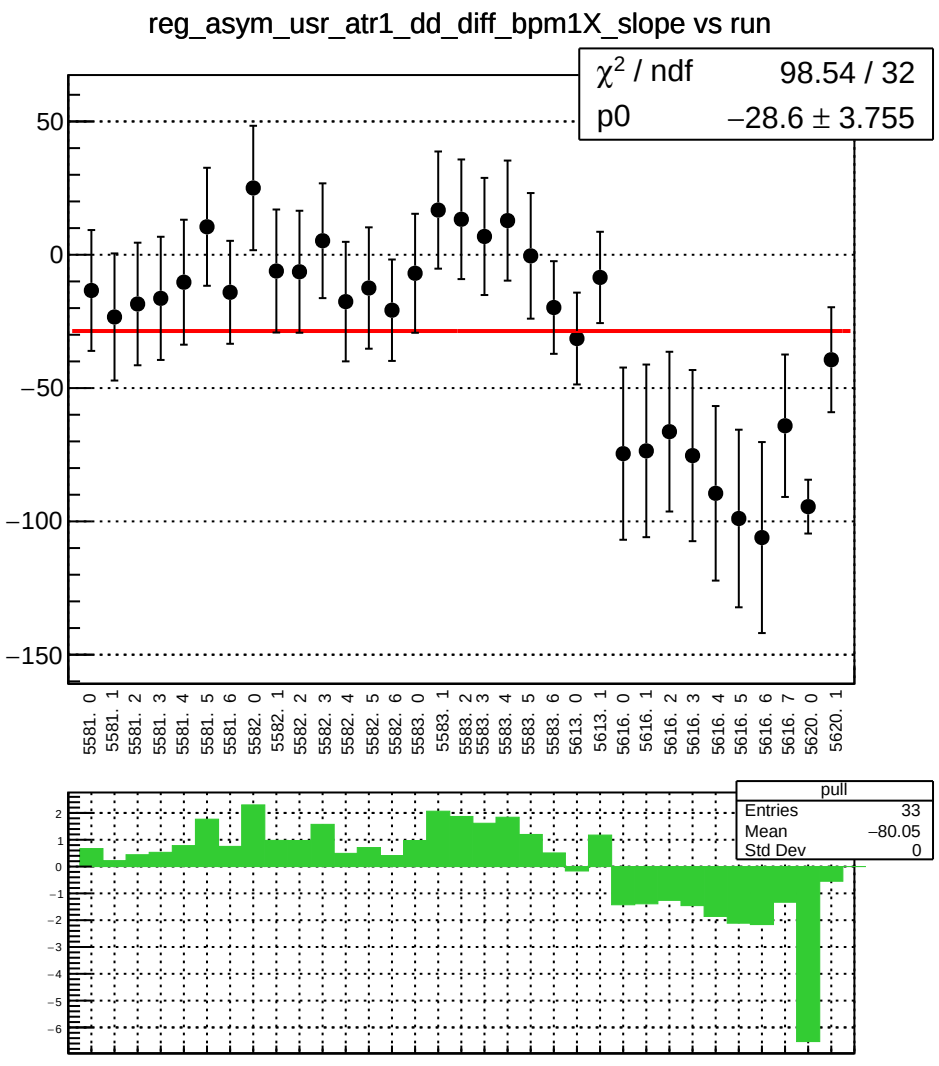

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.57 / 32
p0 3.268 ± 2.745
60
40
20
0
−20
−40
−60
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 349.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.017
Std Dev 1.053
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

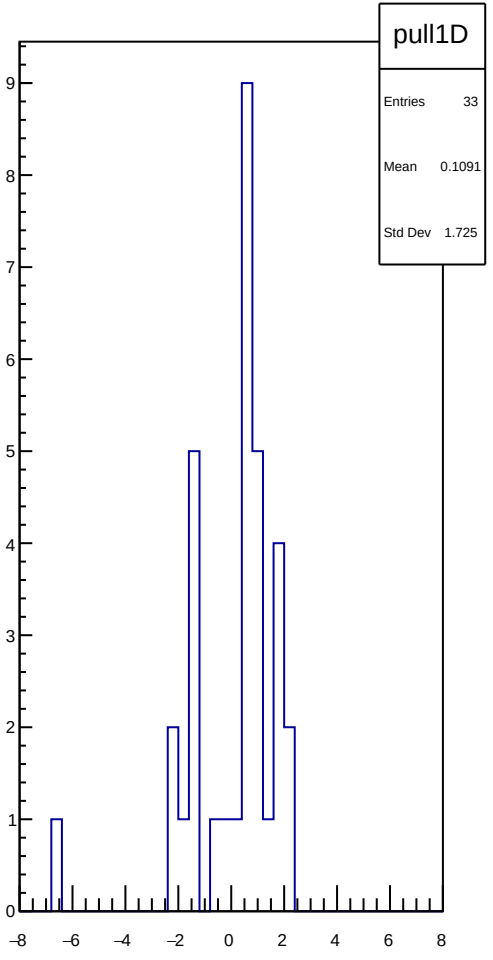

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.99 / 32
p0 40.55 ± 2.725
pull
Entries 33
Mean 95
Std Dev 0

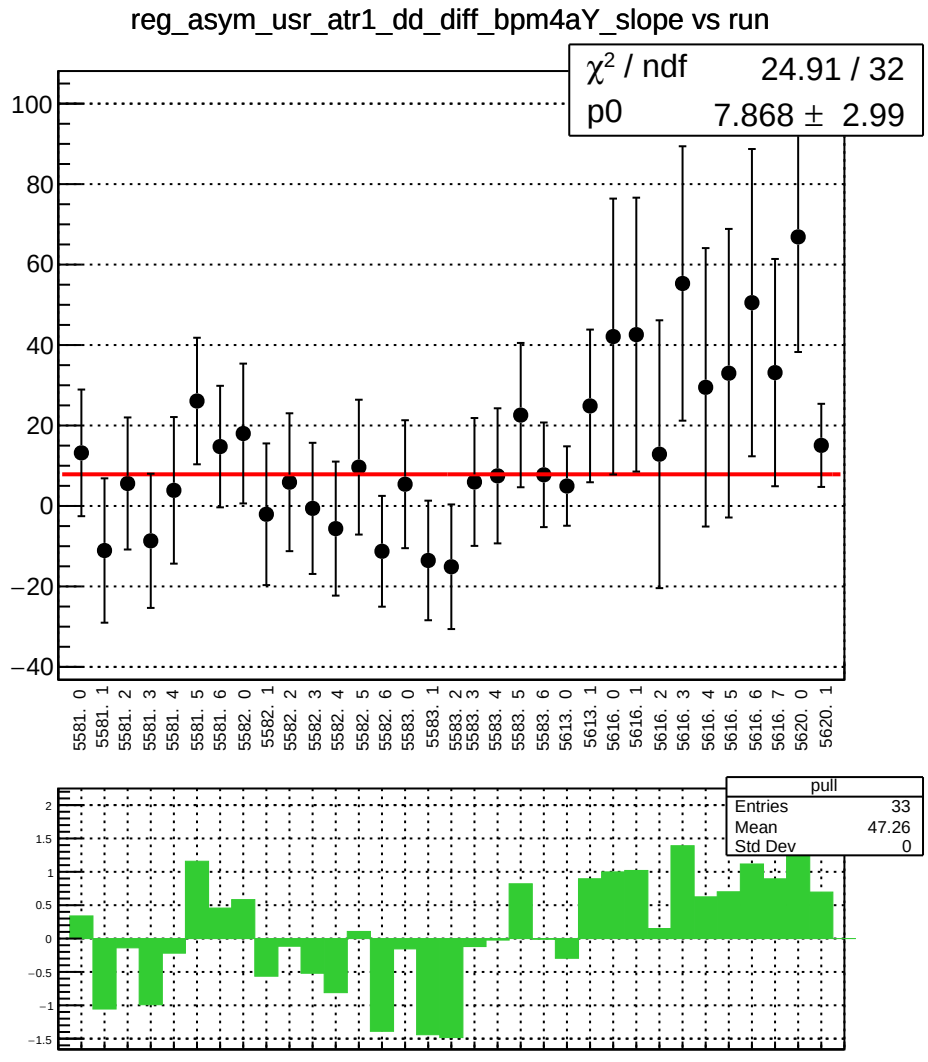

pull1D
Entries 33
Mean −0.07571
Std Dev 1.368

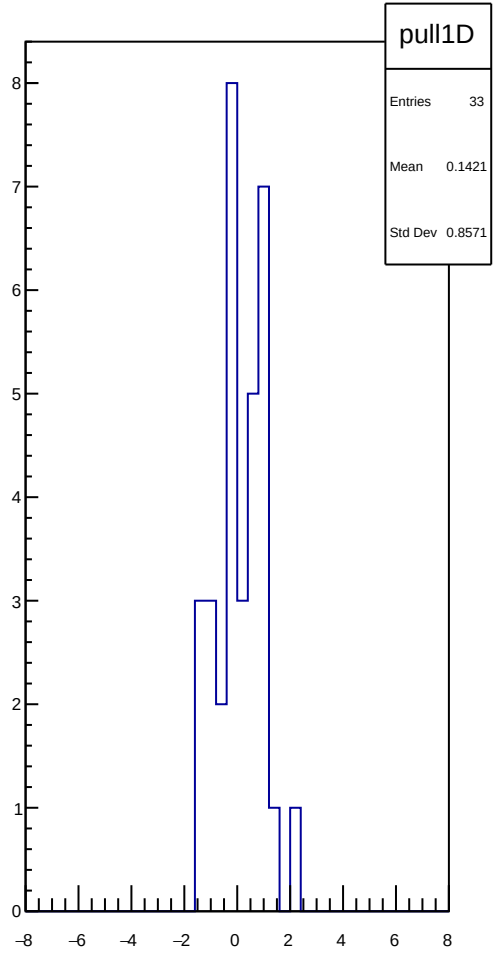

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.46 / 32
p0 −9.754 ± 3.611
pull
Entries 33
Mean −1353
Std Dev 0
pull1D
Entries 33
Mean −0.002511
Std Dev 0.9286

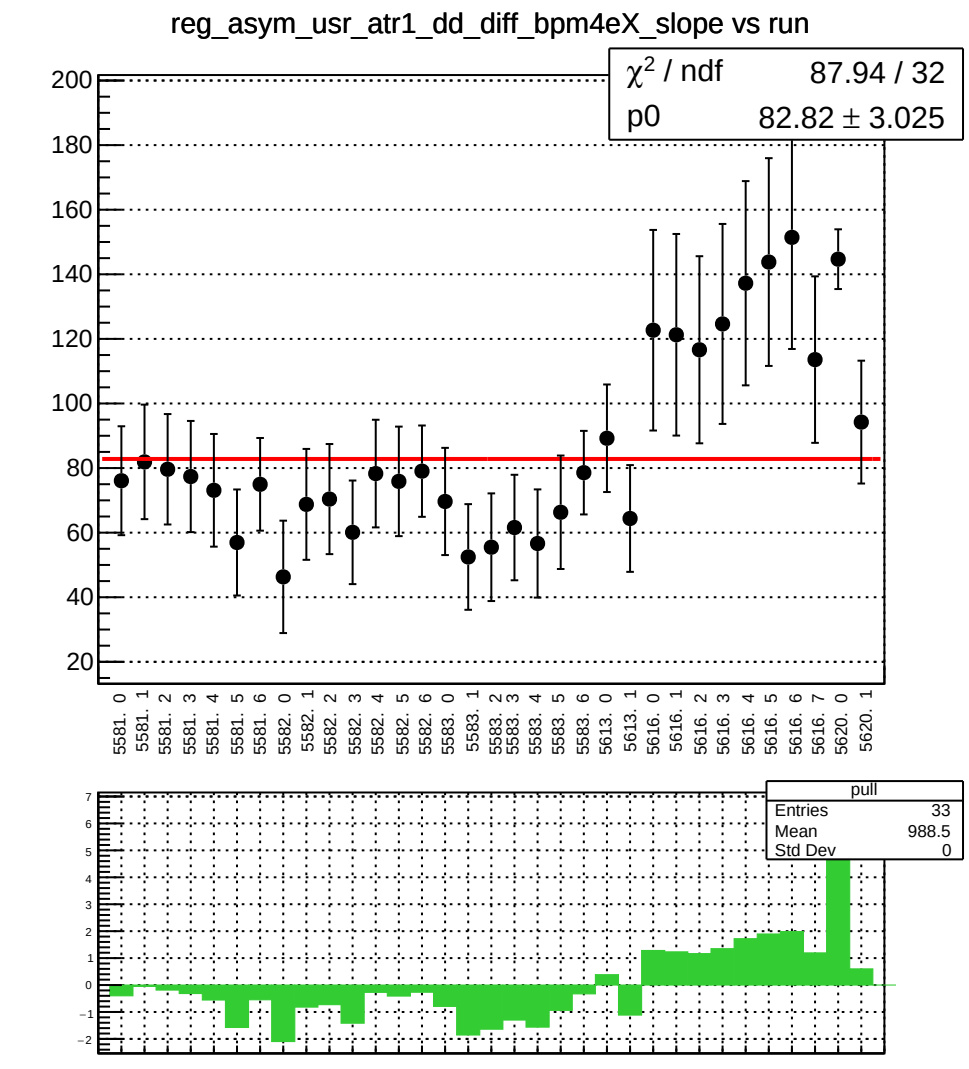

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 1.949e+04 / 32
p0 −1.009 ± 0.1268
pull
Entries 33
Mean −35.22
Std Dev 0
pull1D
Entries 33
Mean 0.9279
Std Dev 0.9239

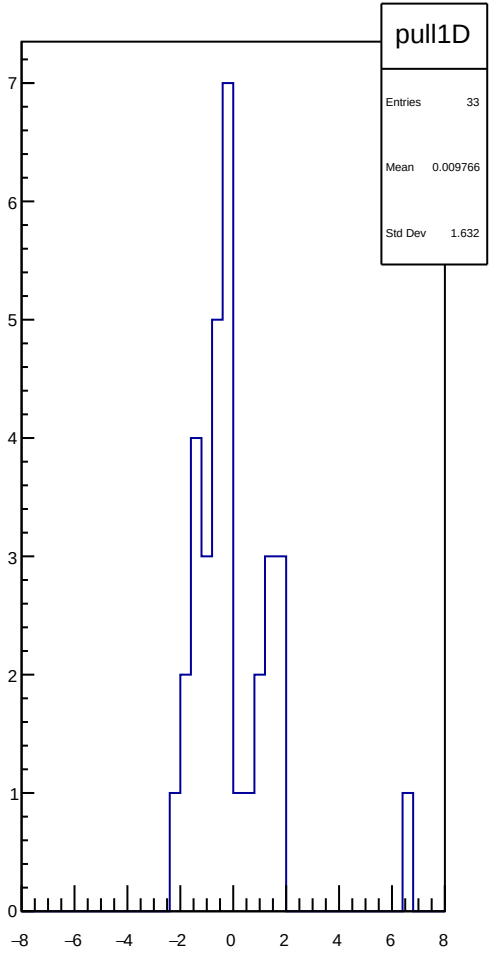

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 98.54 / 32
p0 −28.6 ± 3.755
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −80.05
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6

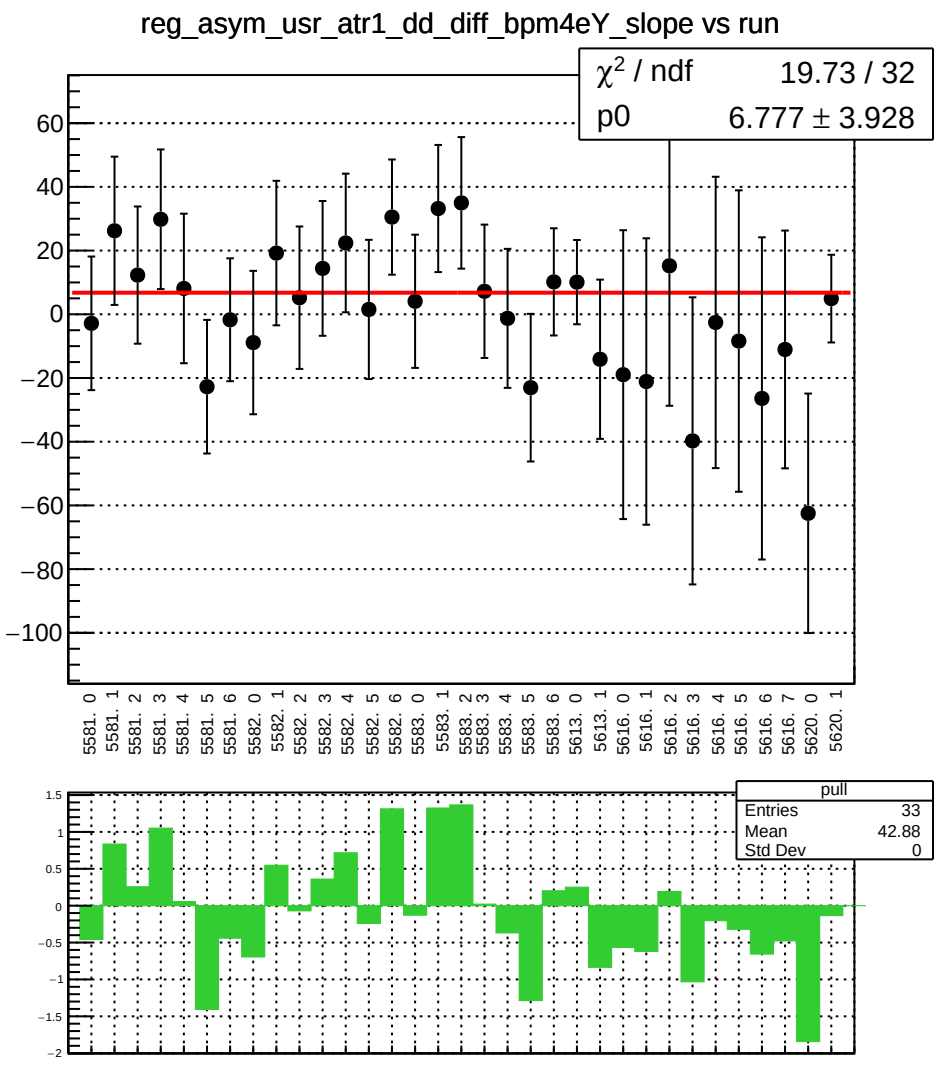

pull1D
Entries 33
Mean 0.1091
Std Dev 1.725
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

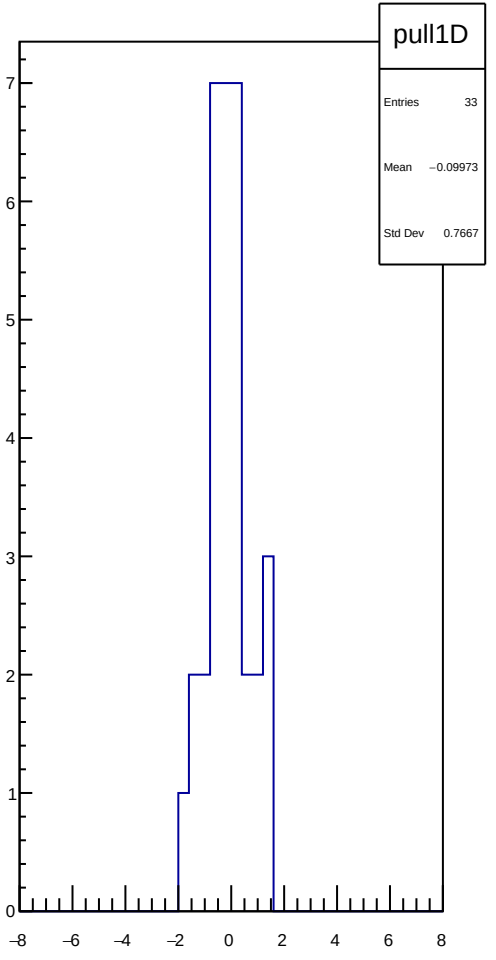

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.91 / 32
p0 7.868 ± 2.99
100
80
60
40
20
0
−20
−40
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 47.26
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

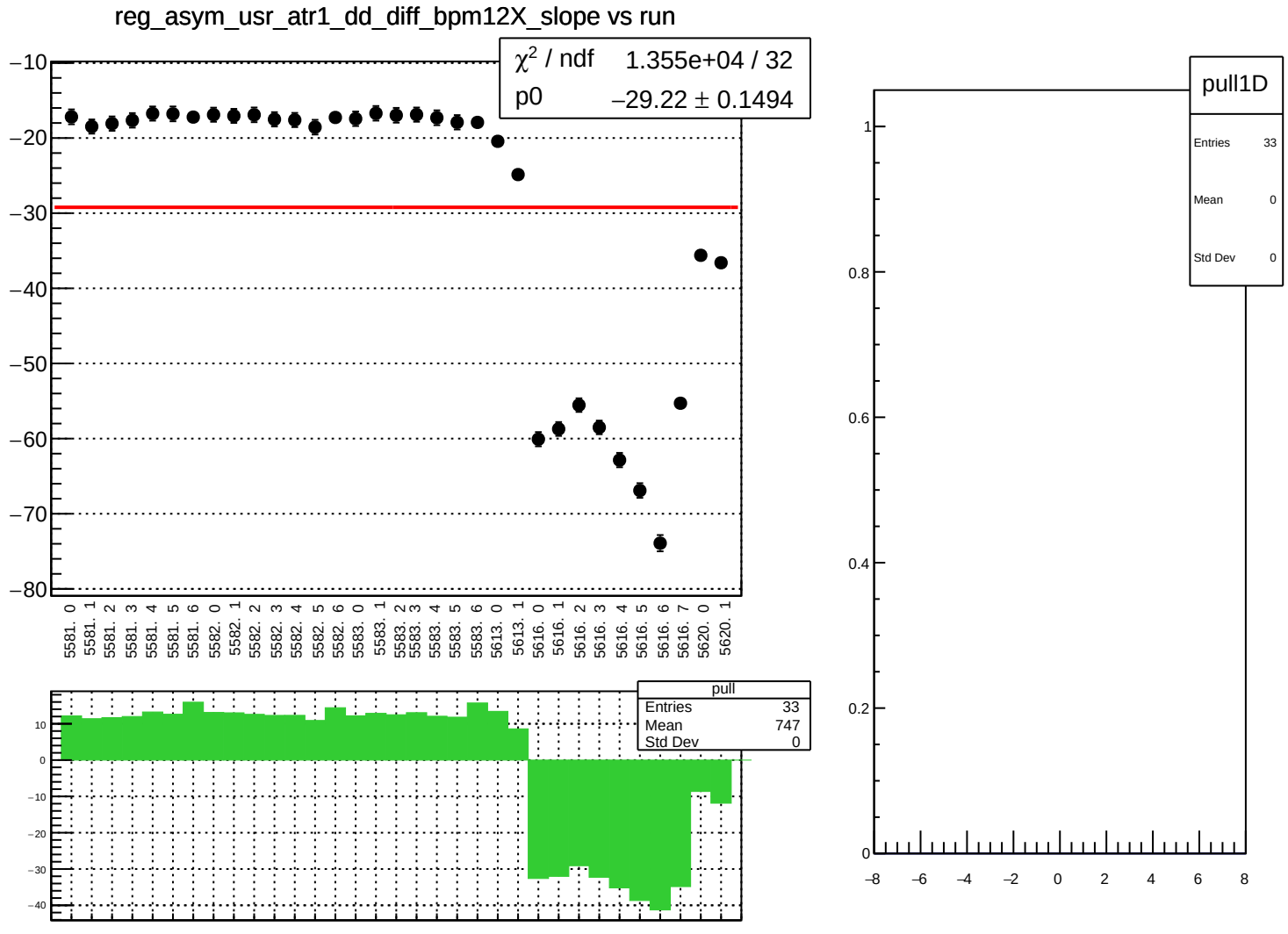

pull1D
Entries 33
Mean 0.1421
Std Dev 0.8571
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

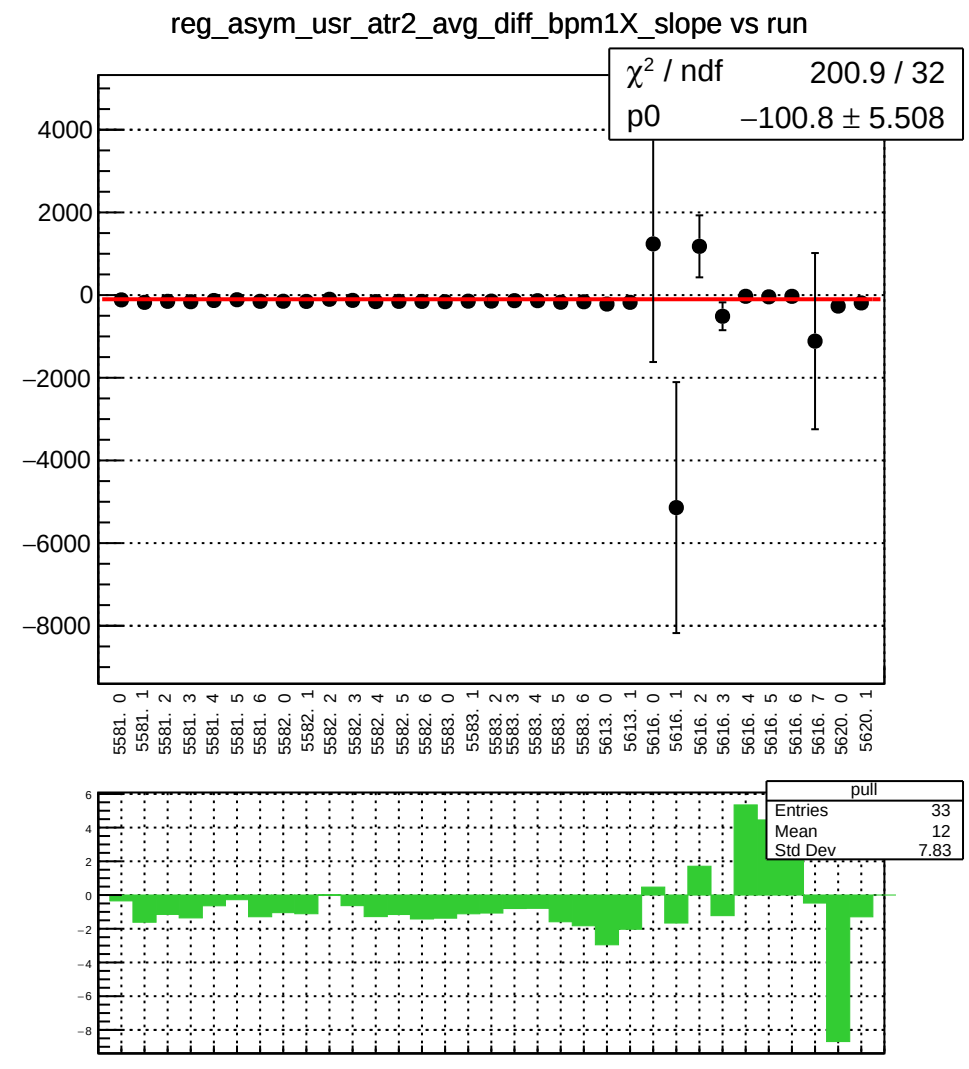

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.94 / 32
p0 82.82 ± 3.025
pull
Entries 33
Mean 988.5
Std Dev 0

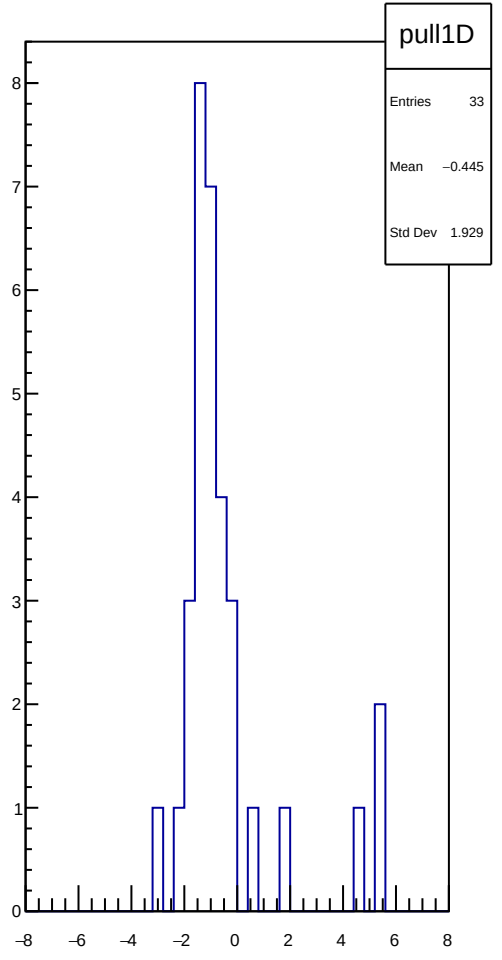

pull1D
Entries 33
Mean 0.009766
Std Dev 1.632

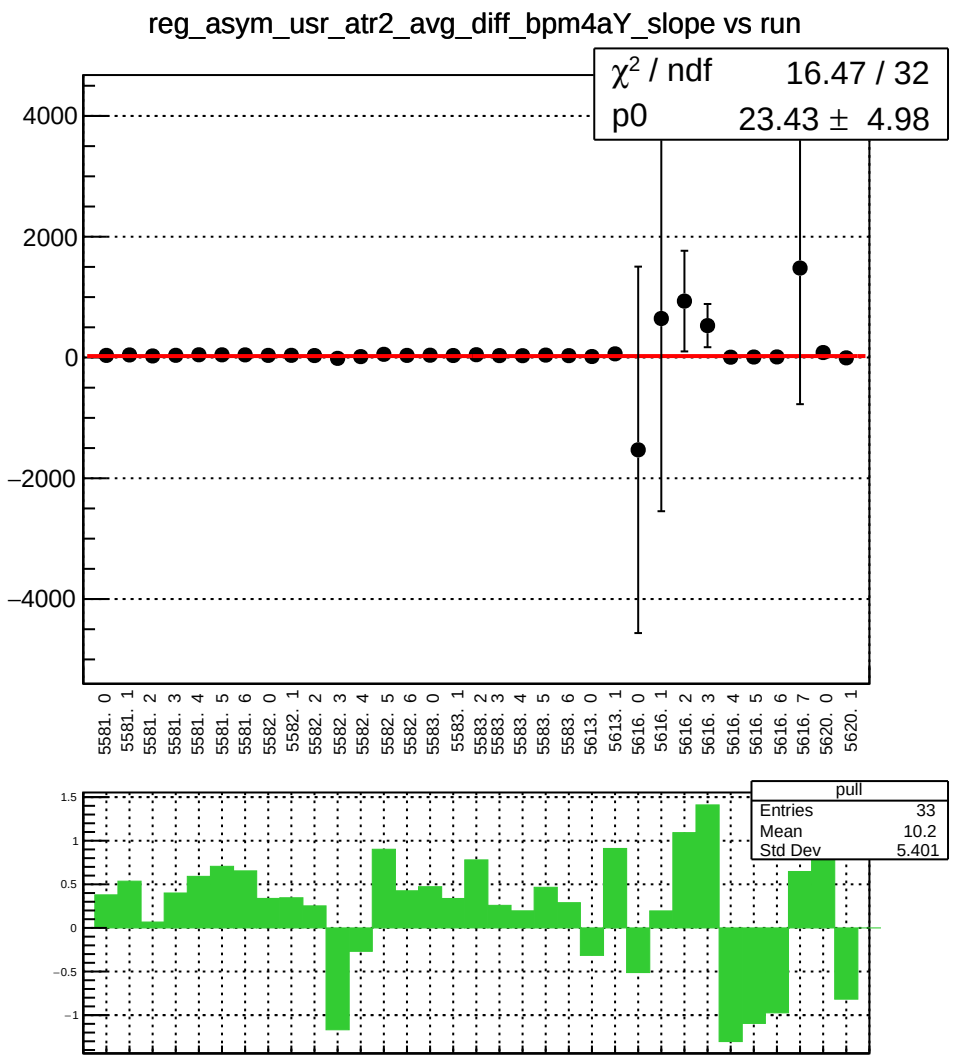

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.73 / 32
p0 6.777 ± 3.928
60
40
20
0
−20
−40
−60
−80
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 42.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

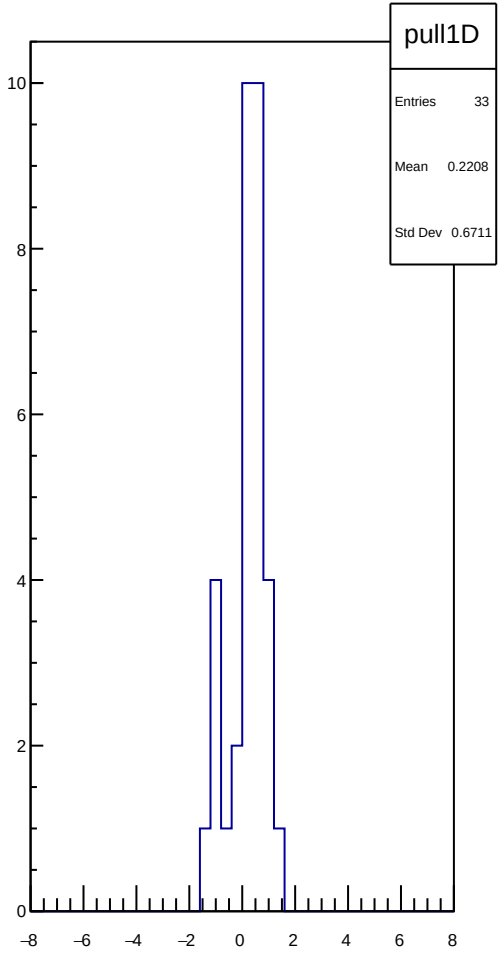

pull1D
Entries 33
Mean −0.09973
Std Dev 0.7667
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

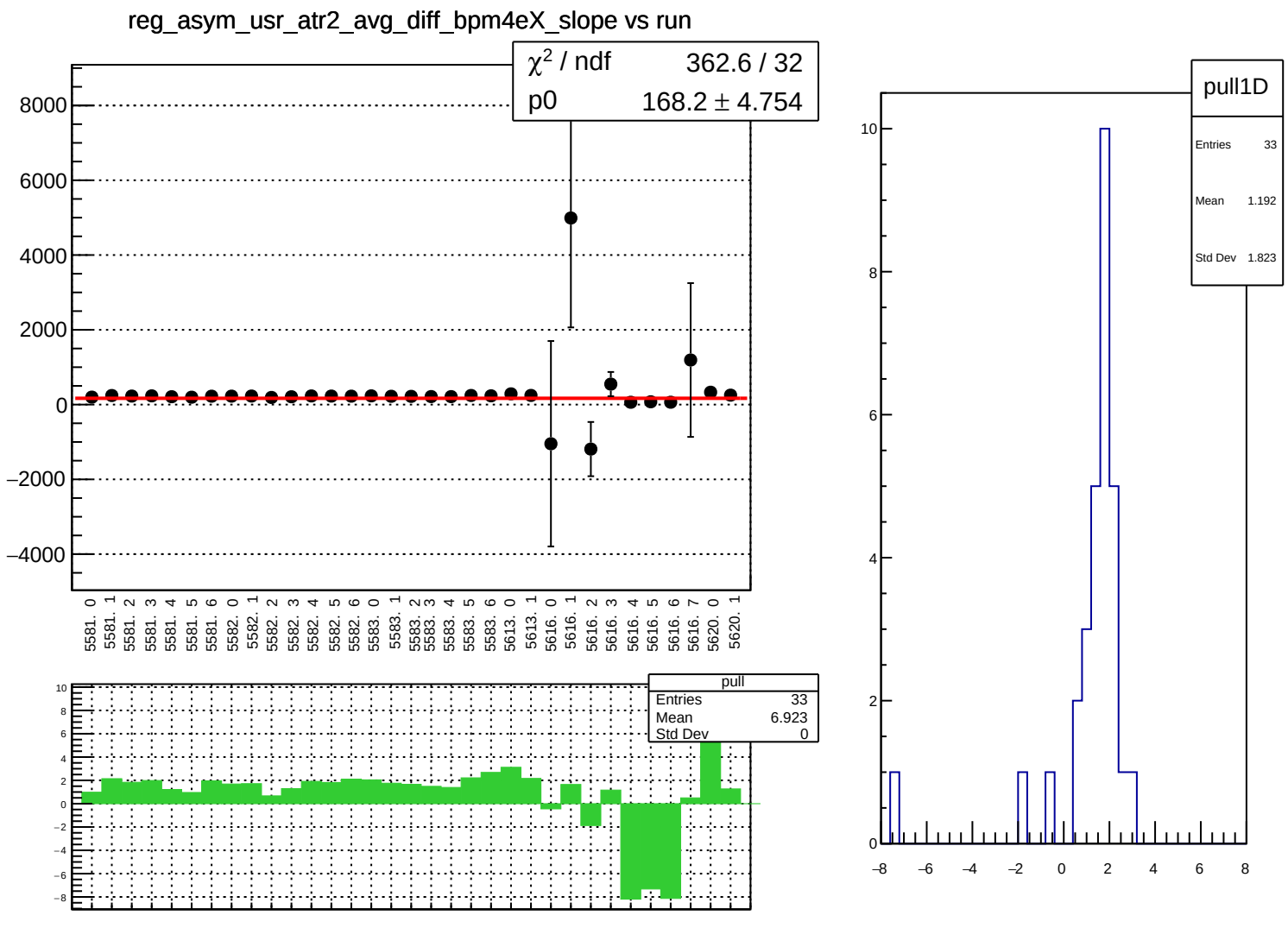

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 1.355e+04 / 32
p0 −29.22 ± 0.1494
−10
−20
−30
−40
−50
−60
−70
−80
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 747
Std Dev 0
10
0
−10
−20
−30
−40
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

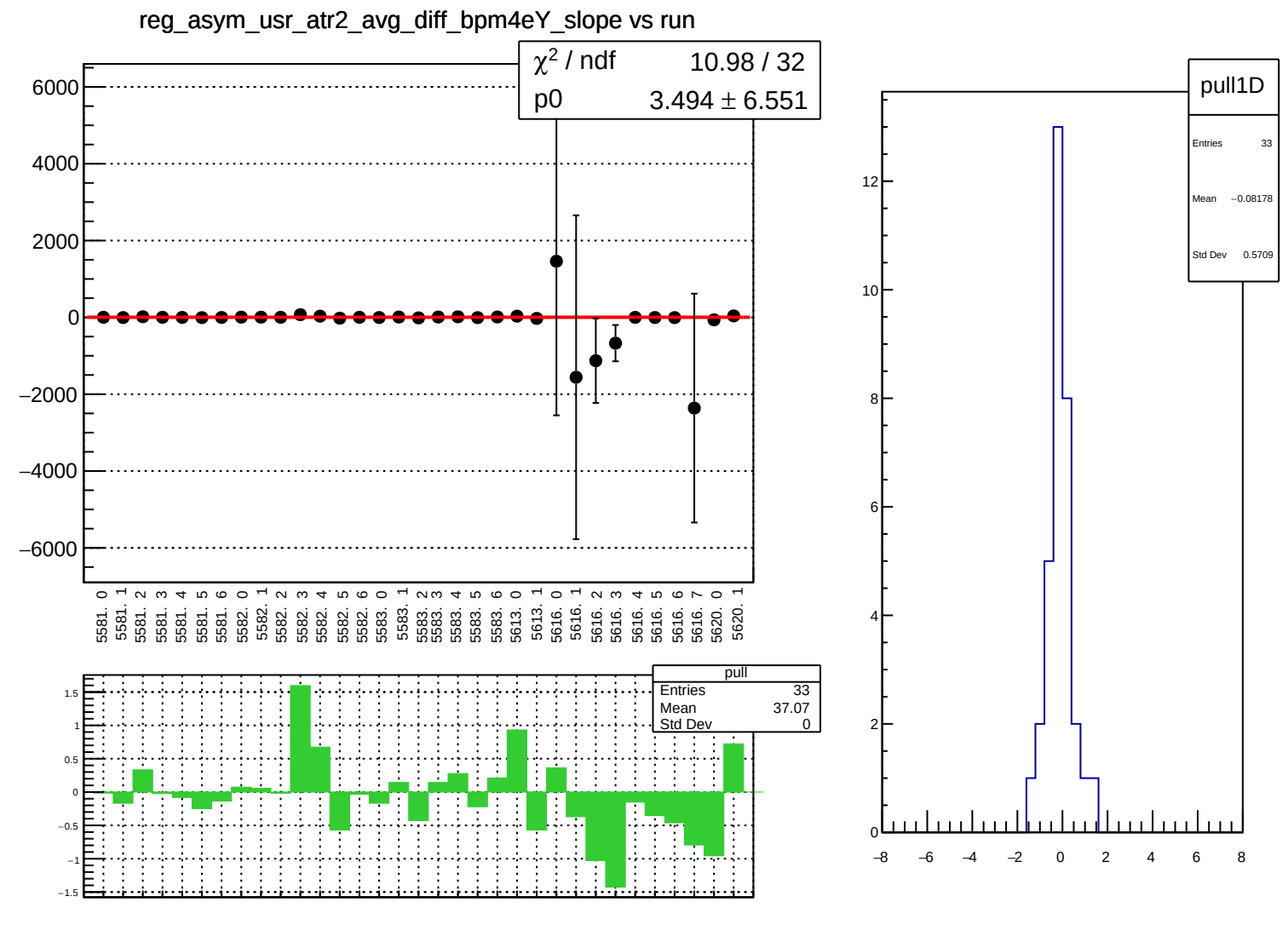

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 200.9 / 32
p0 −100.8 ± 5.508
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 12
Std Dev 7.83
6
4
2
0
−2
−4
−6
−8

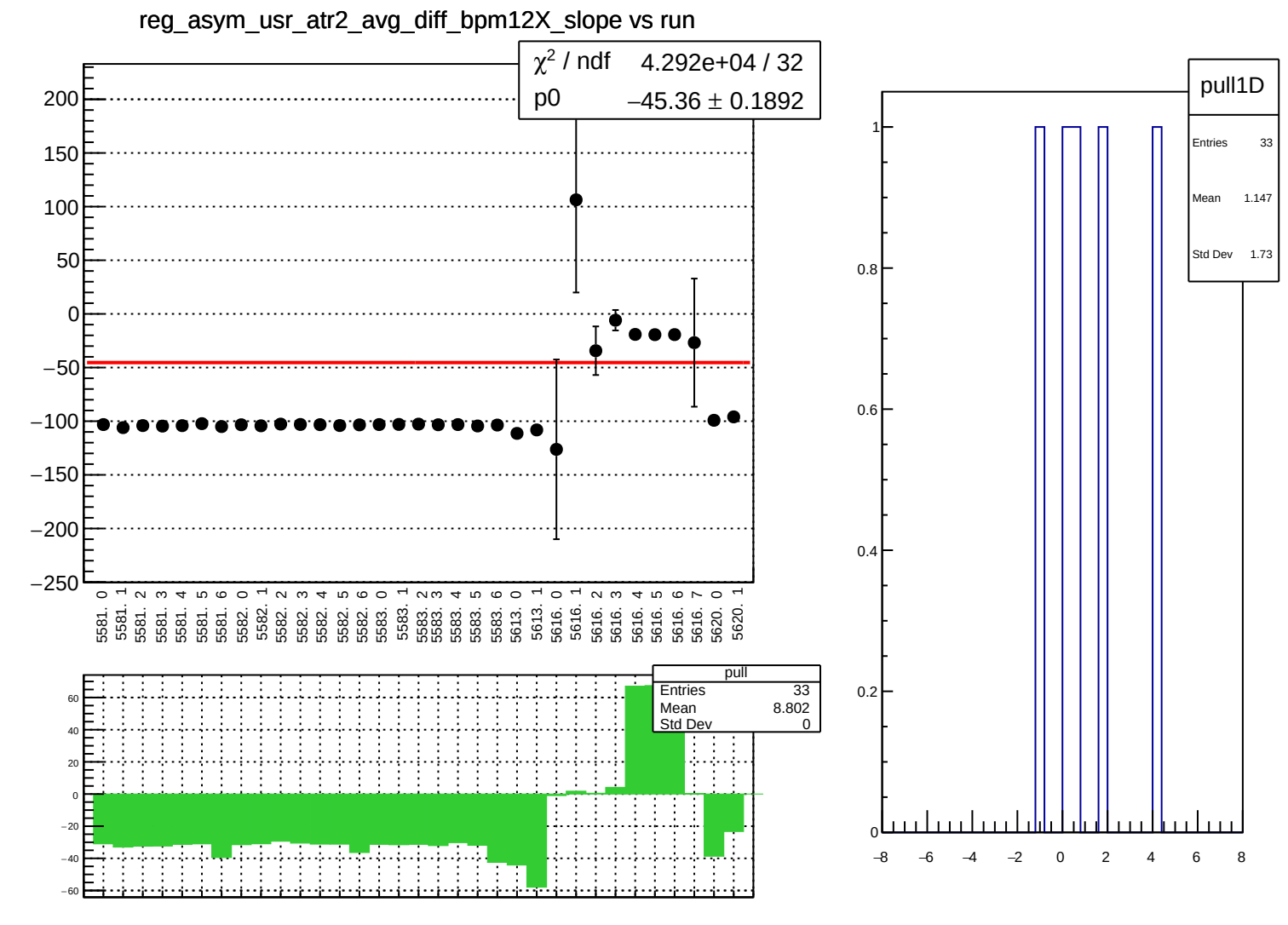

pull1D
Entries 33
Mean −0.445
Std Dev 1.929
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

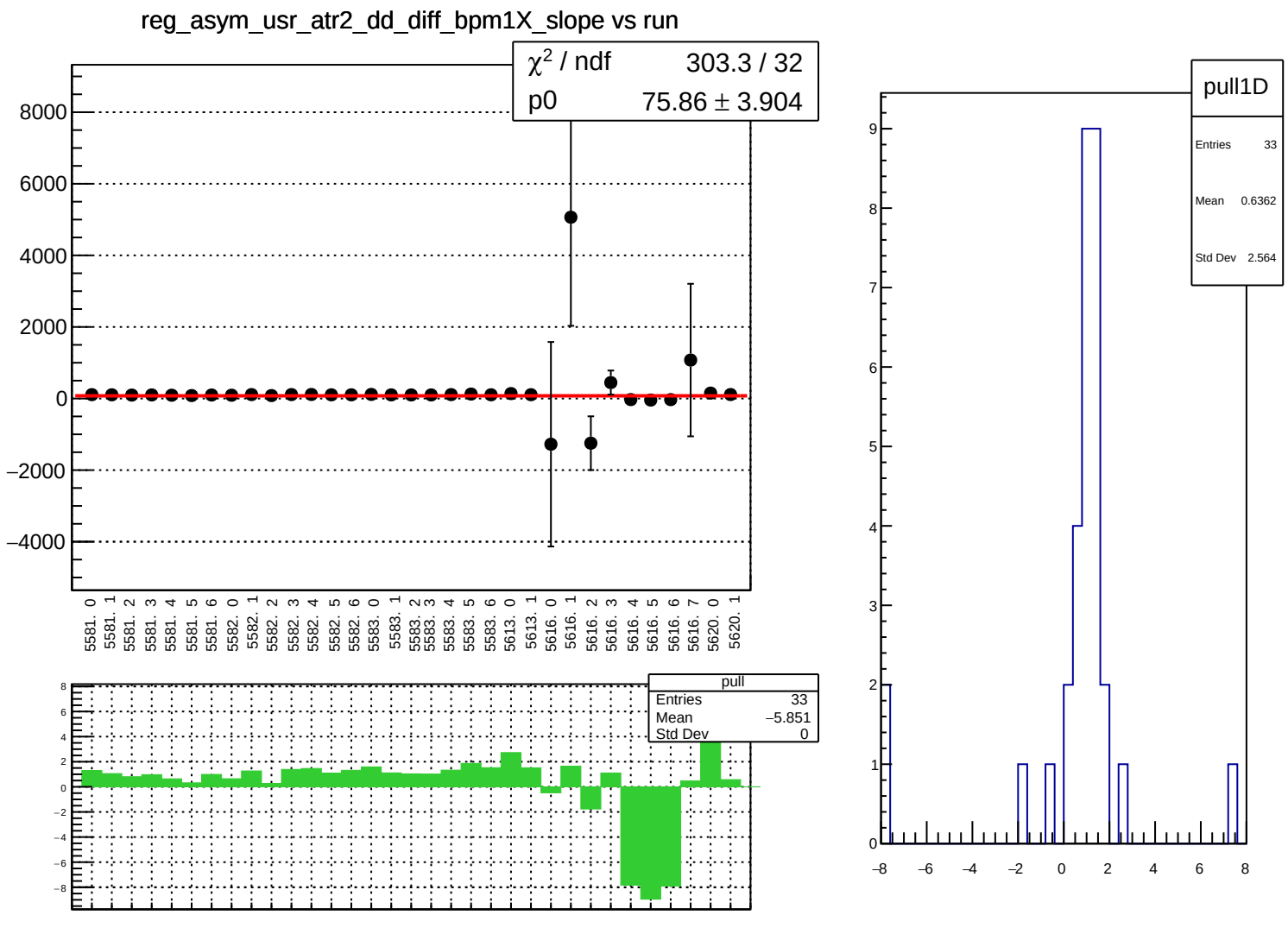

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.47 / 32
p0 23.43 ± 4.98
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 10.2
Std Dev 5.401
1.5
1
0.5
0
−0.5
−1

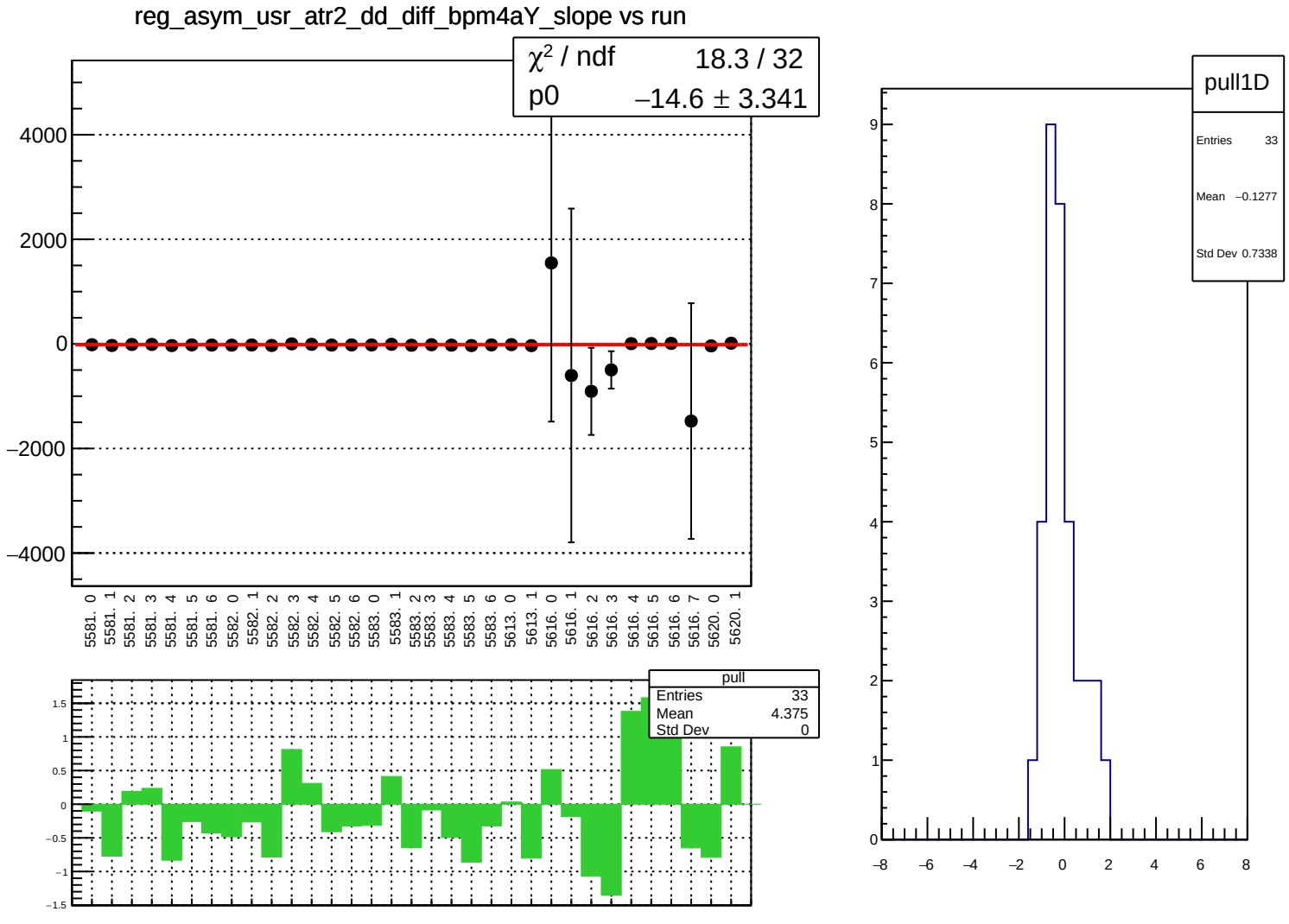

pull1D
Entries 33
Mean 0.2208
Std Dev 0.6711
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

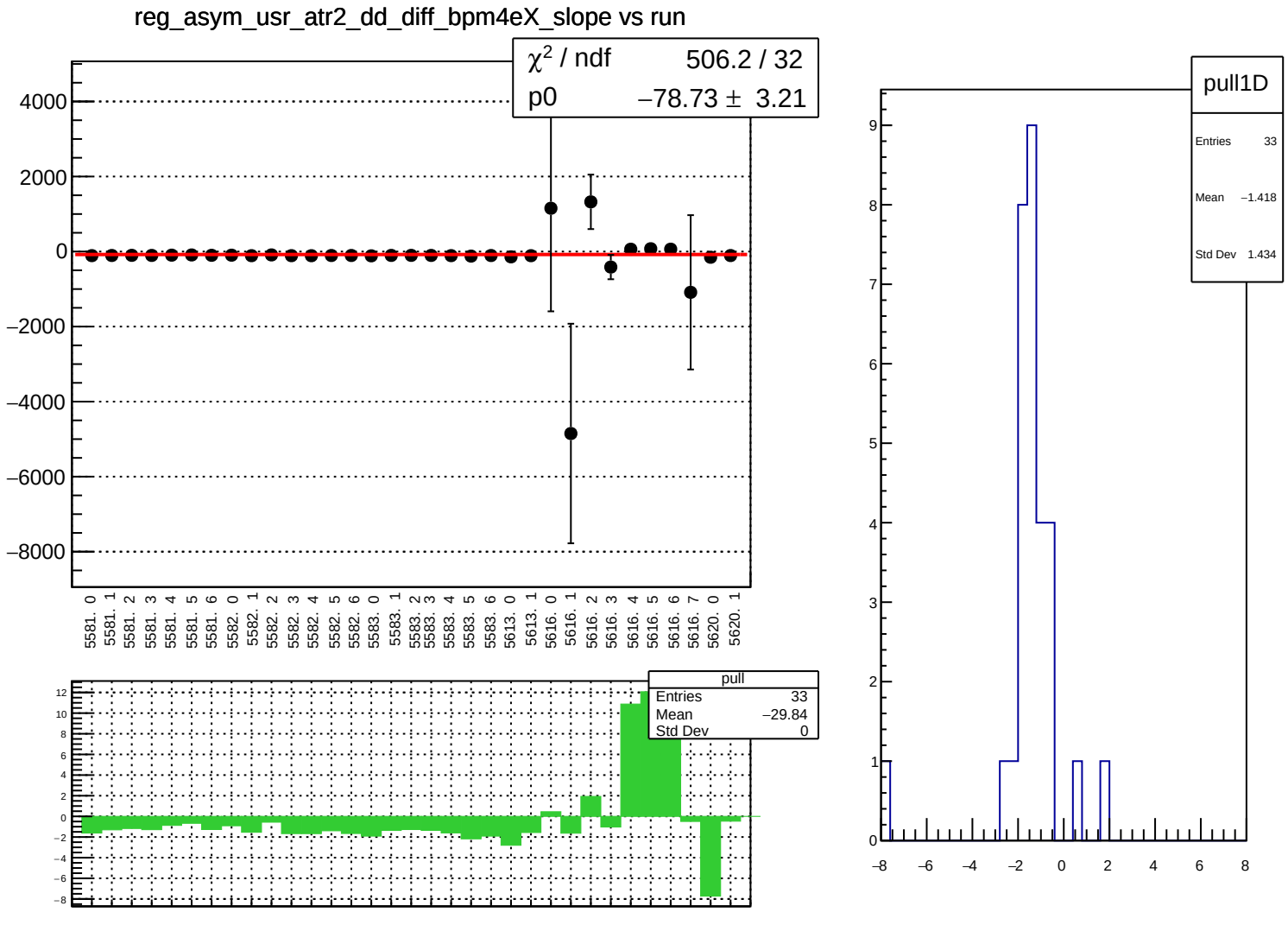

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 362.6 / 32
p0 168.2 ± 4.754
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 6.923
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 33
Mean 1.192
Std Dev 1.823
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

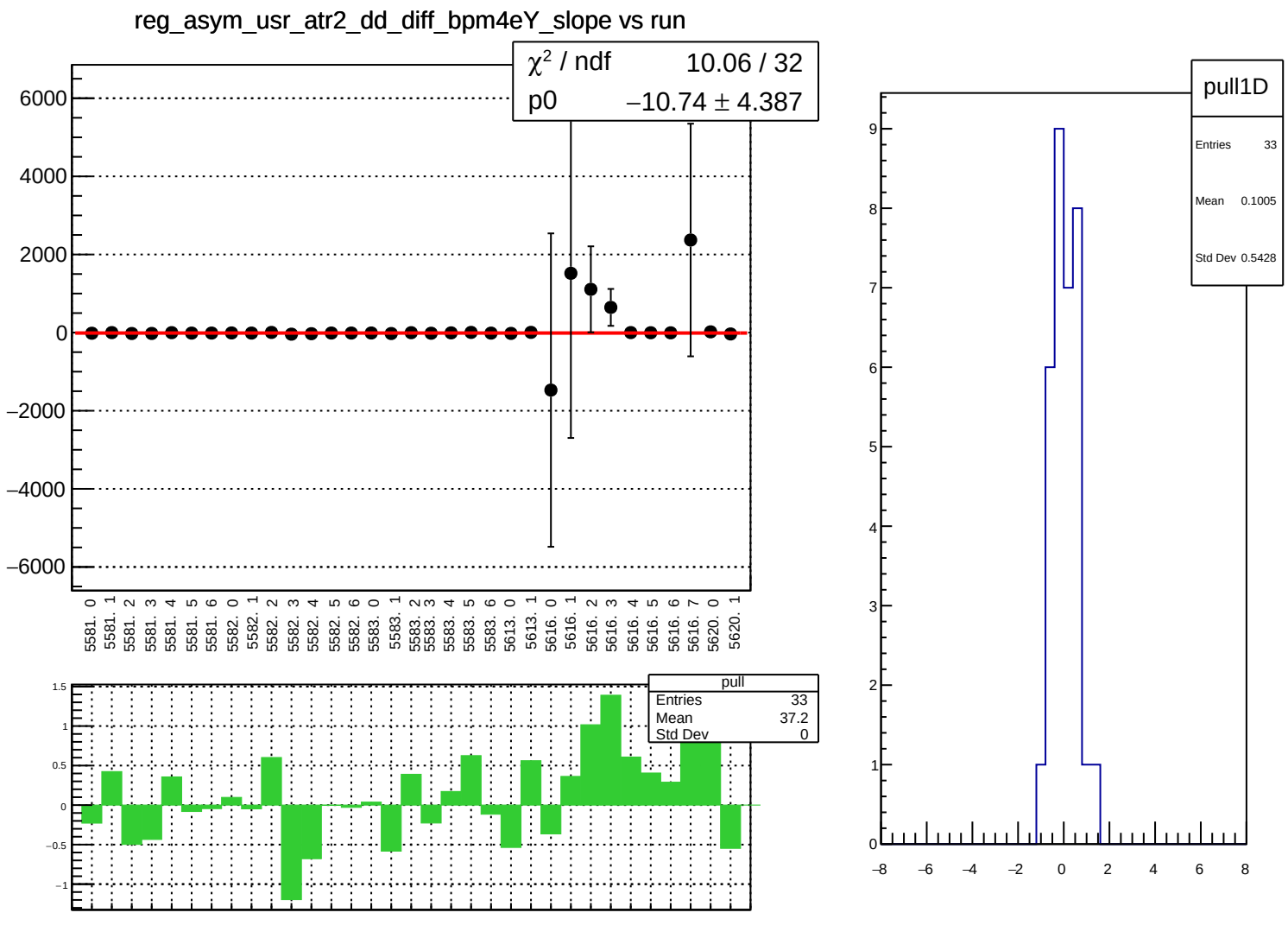

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.98 / 32
p0 3.494 ± 6.551
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.08178
Std Dev 0.5709
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

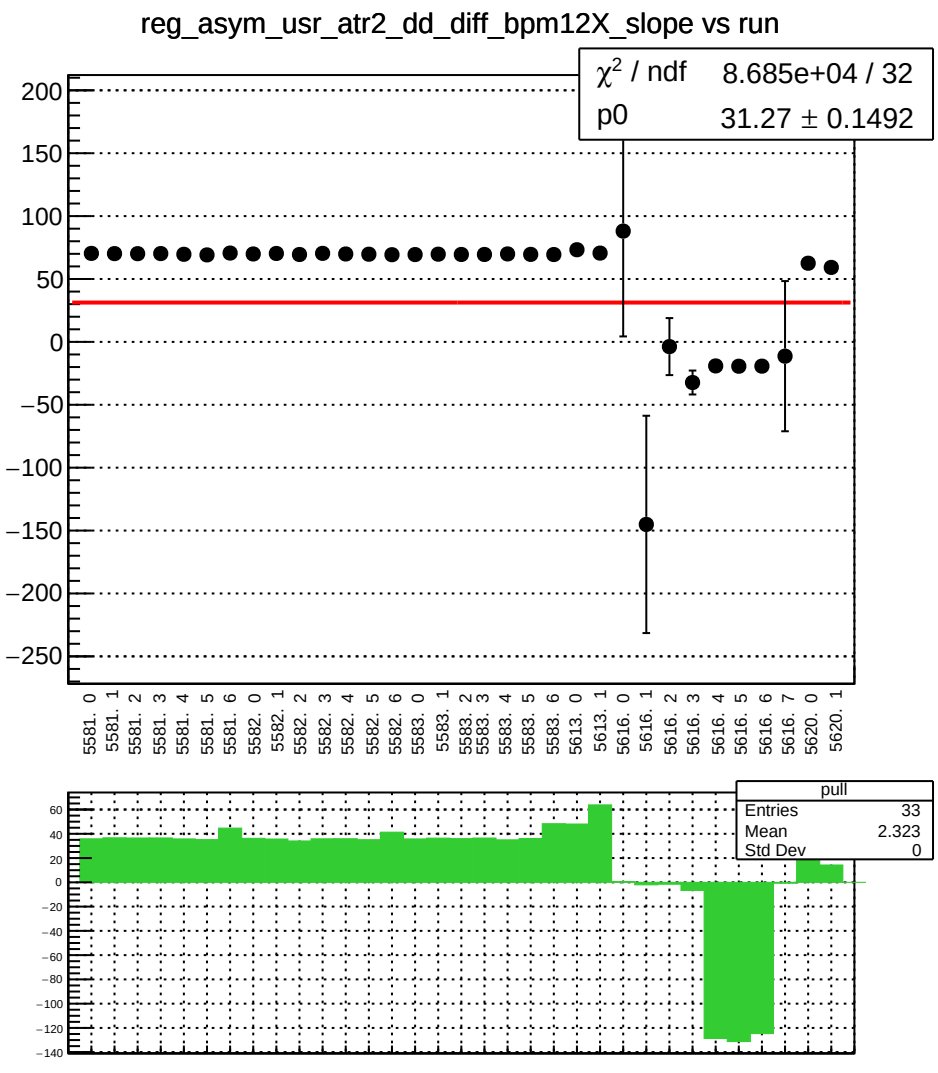

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 4.292e+04 / 32
p0 −45.36 ± 0.1892
pull
Entries 33
Mean 8.802
Std Dev 0
pull1D
Entries 33
Mean 1.147
Std Dev 1.73

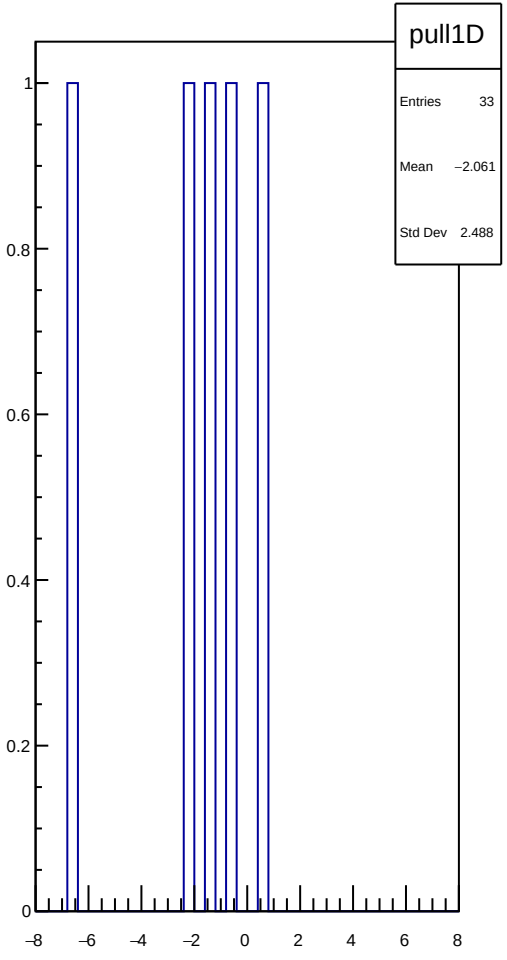

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 303.3 / 32
p0 75.86 ± 3.904
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −5.851
Std Dev 0
pull1D
Entries 33
Mean 0.6362
Std Dev 2.564

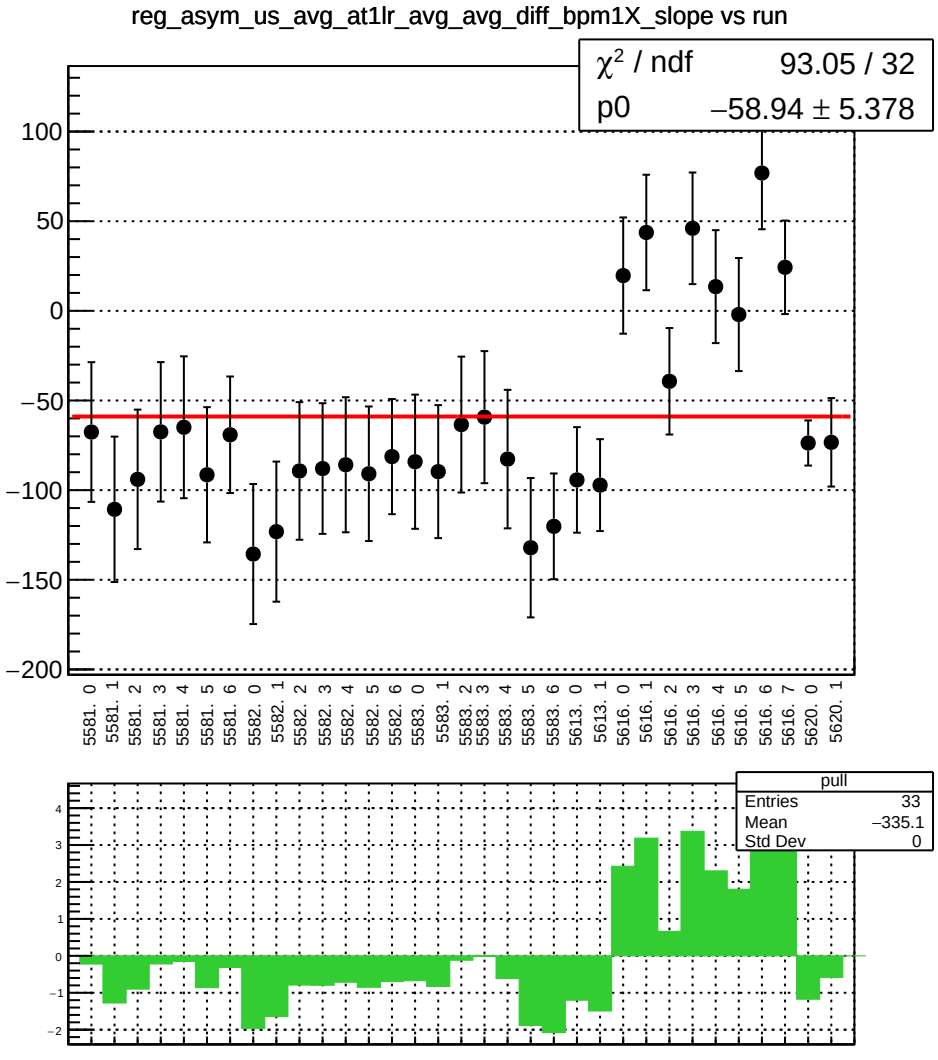

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.3 / 32
p0 −14.6 ± 3.341
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 4.375
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1277
Std Dev 0.7338
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

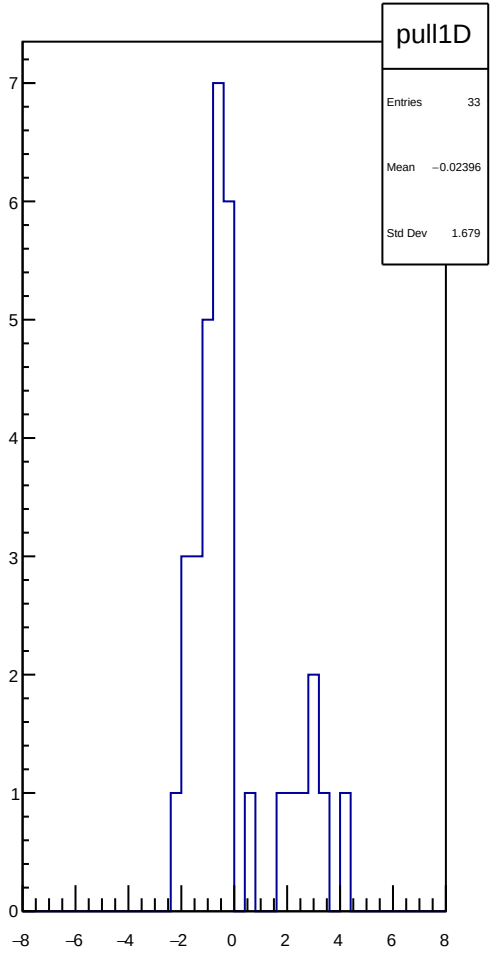

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 506.2 / 32
p0 −78.73 ± 3.21
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −29.84
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 33
Mean −1.418
Std Dev 1.434
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

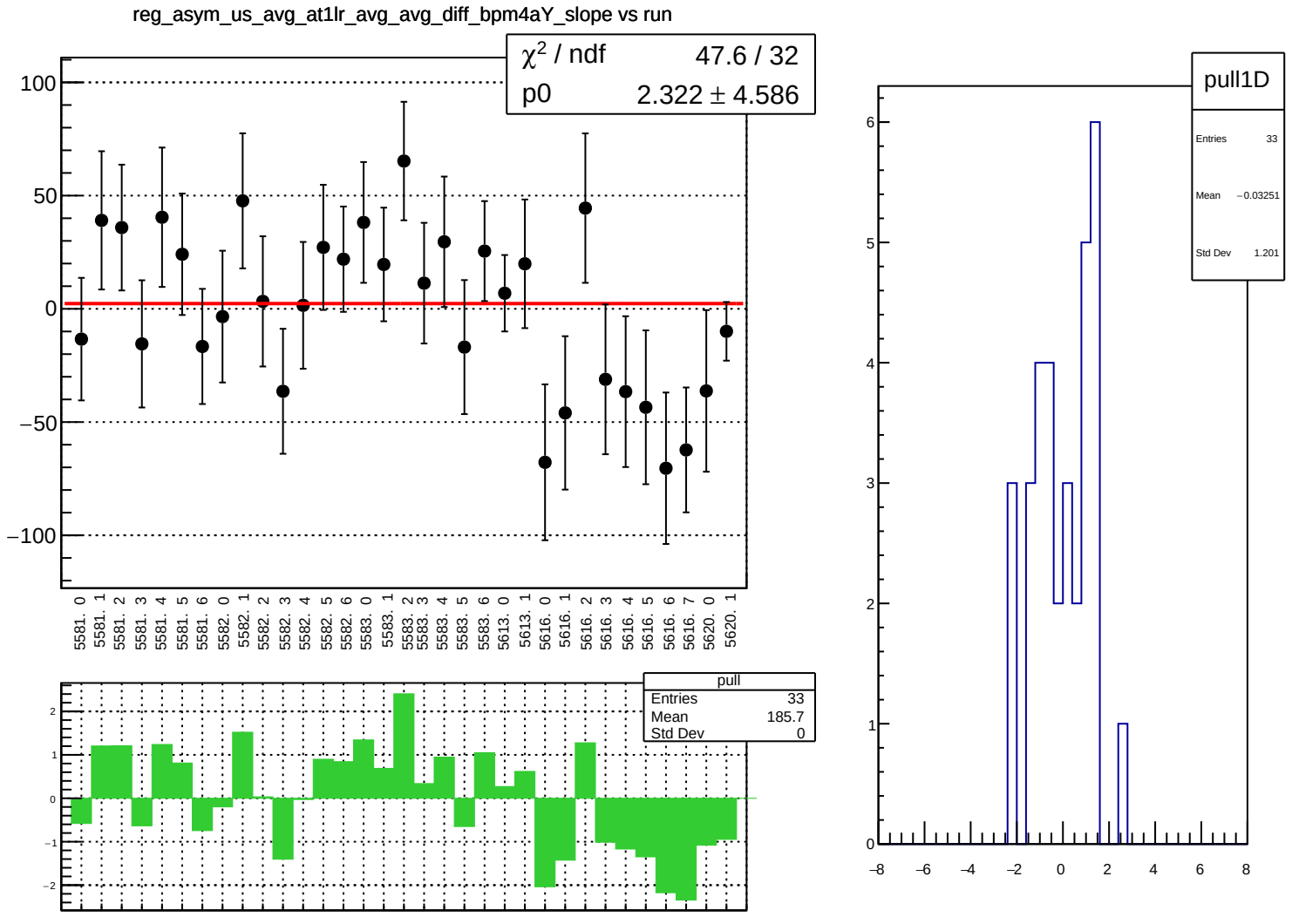

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.06 / 32
p0 −10.74 ± 4.387
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 37.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.1005
Std Dev 0.5428
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

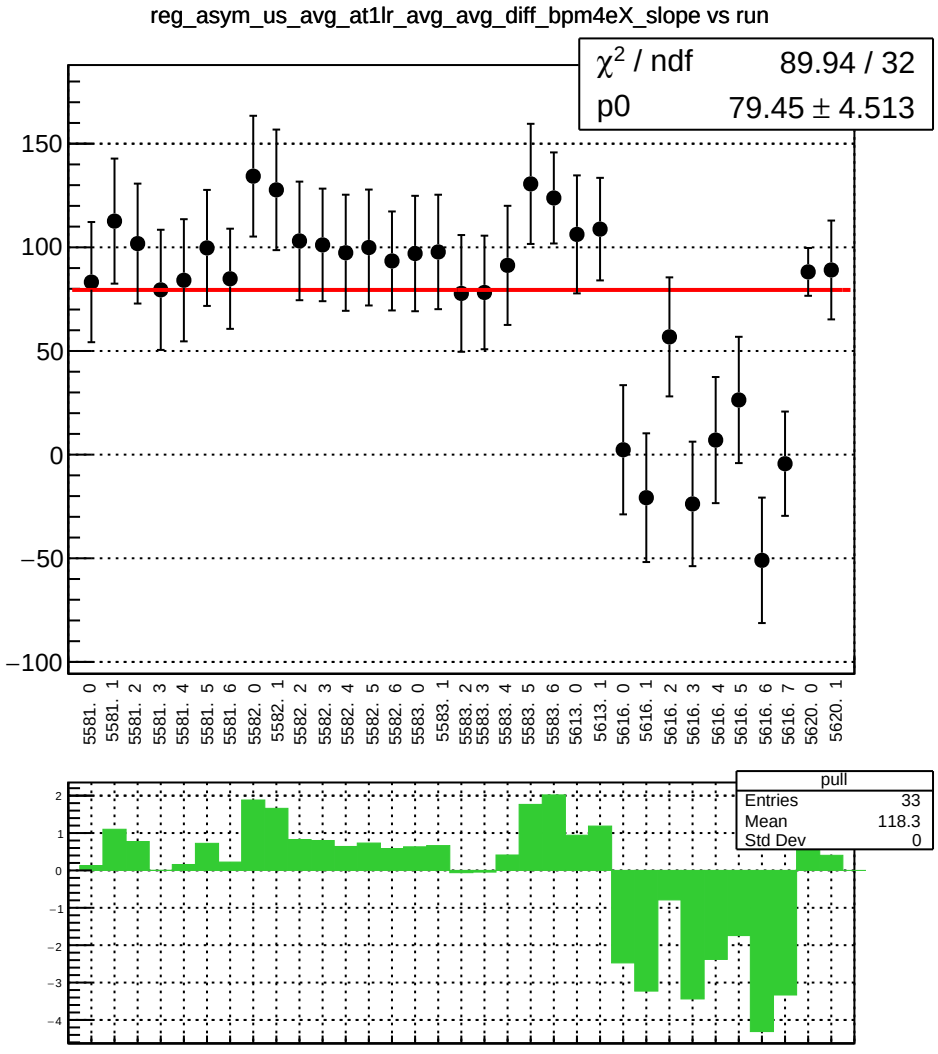

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 8.685e+04 / 32
p0 31.27 ± 0.1492
200
150
100
50
0
−50
−100
−150
−200
−250
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 2.323
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

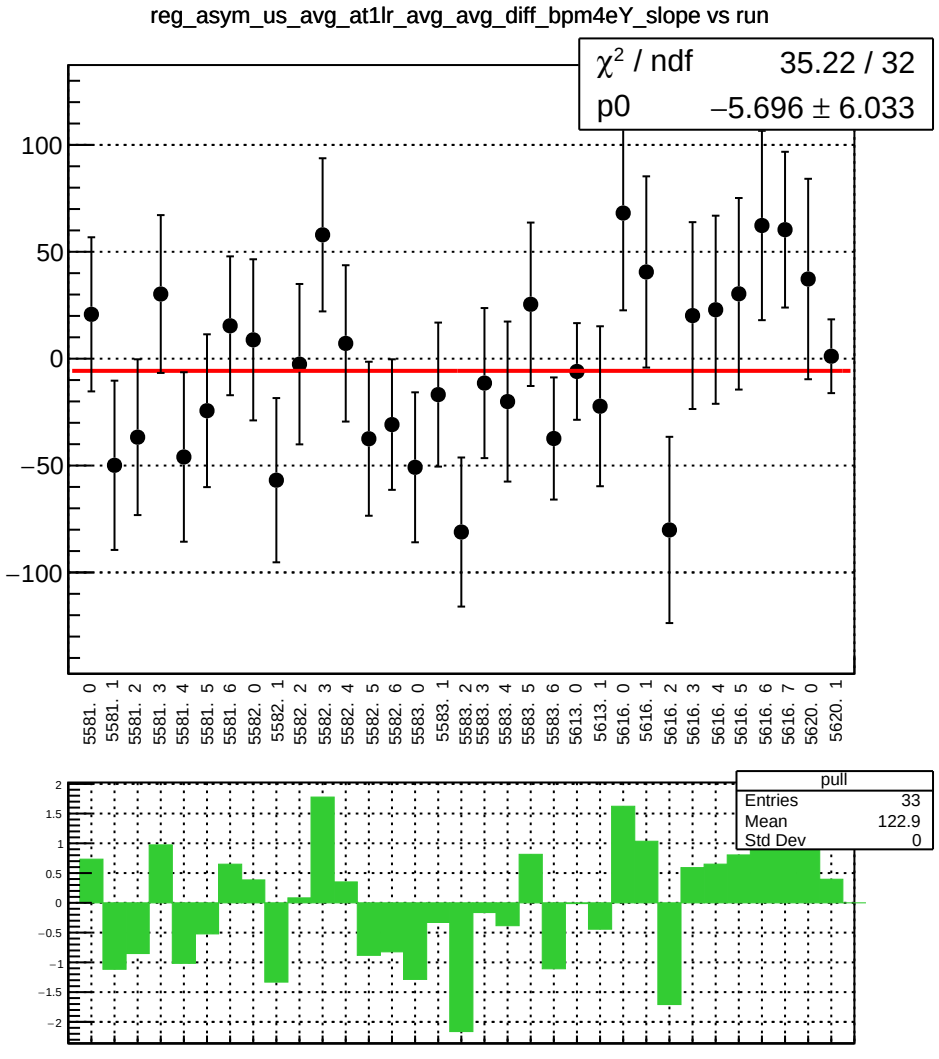

pull1D
Entries 33
Mean −2.061
Std Dev 2.488
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

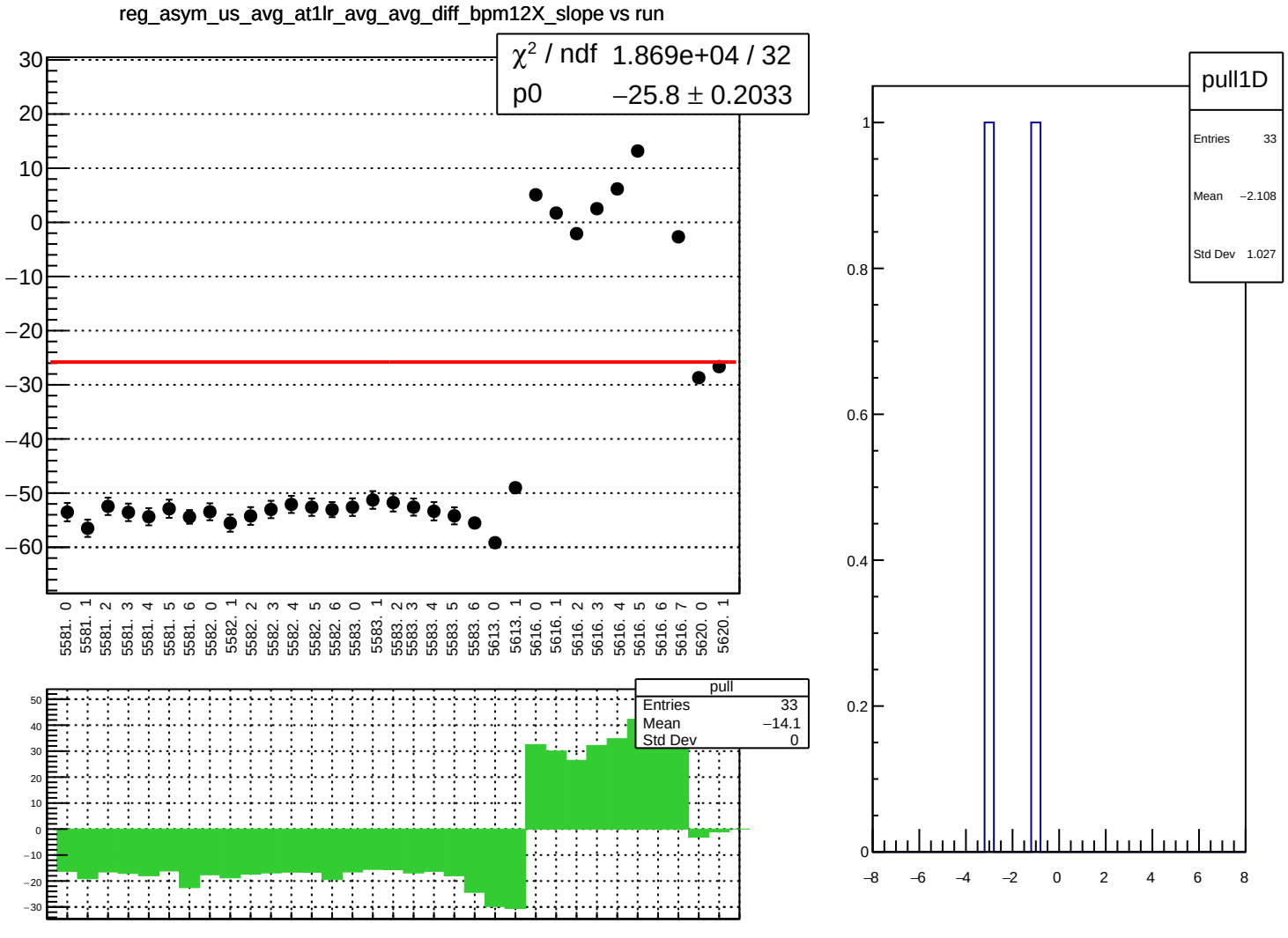

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 93.05 / 32
p0 −58.94 ± 5.378
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −335.1
Std Dev 0
4
3
2
1
0
−1
−2

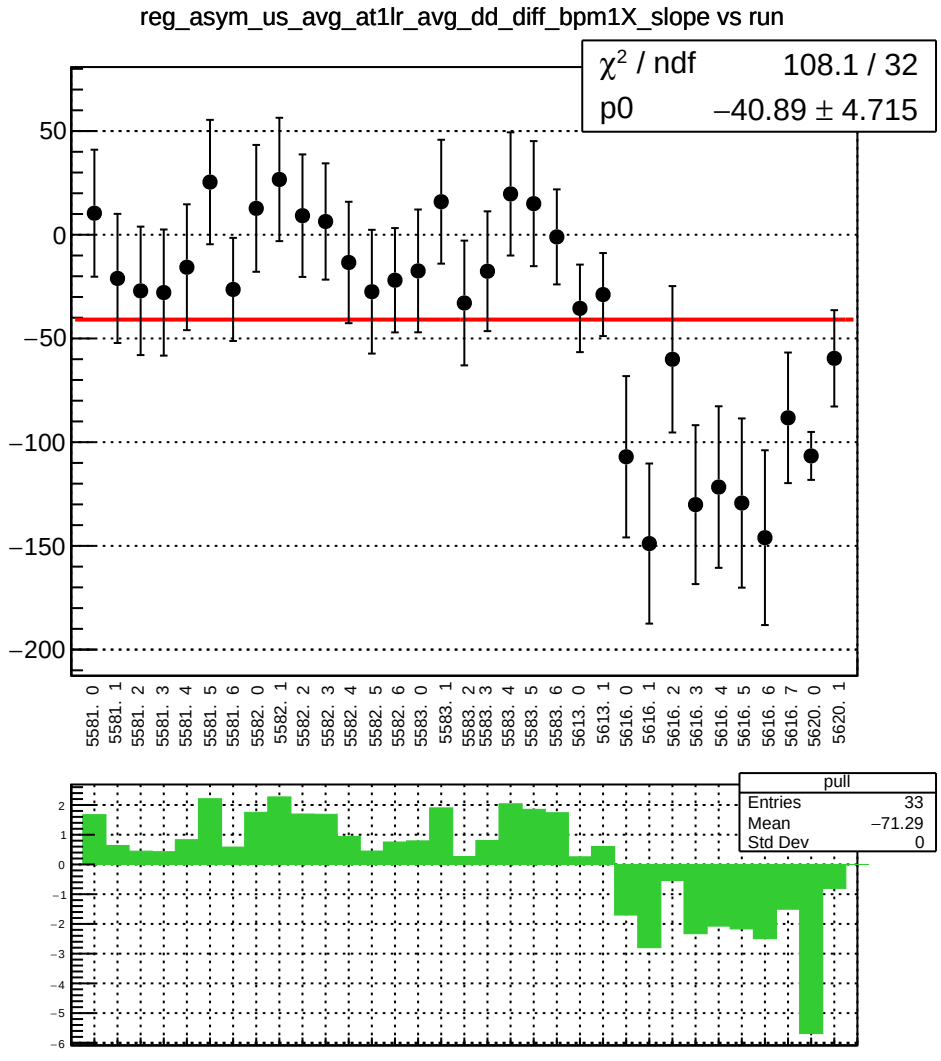

pull1D
Entries 33
Mean −0.02396
Std Dev 1.679
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

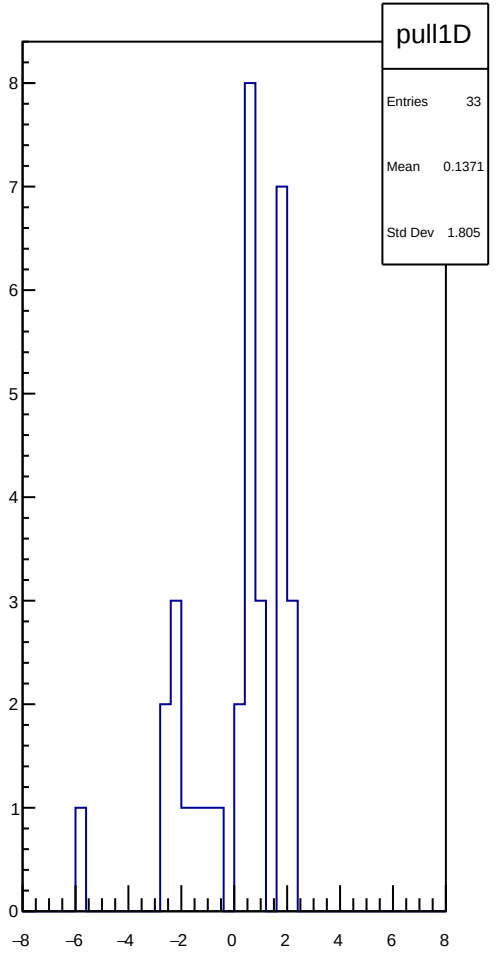

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.6 / 32
p0 2.322 ± 4.586
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 185.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.03251
Std Dev 1.201
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

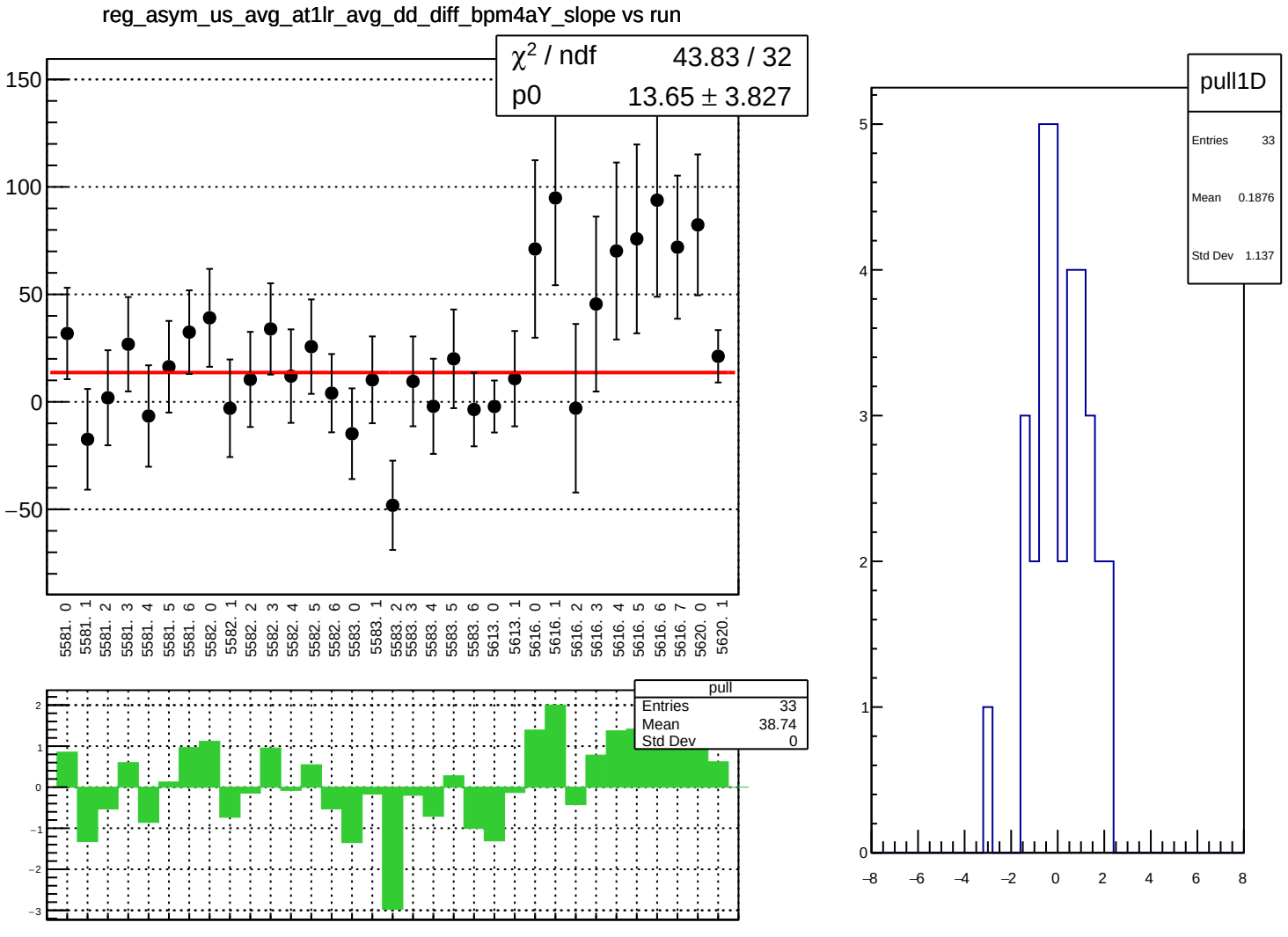

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 89.94 / 32
p0 79.45 ± 4.513
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 118.3
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 33
Mean −0.08416
Std Dev 1.649
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

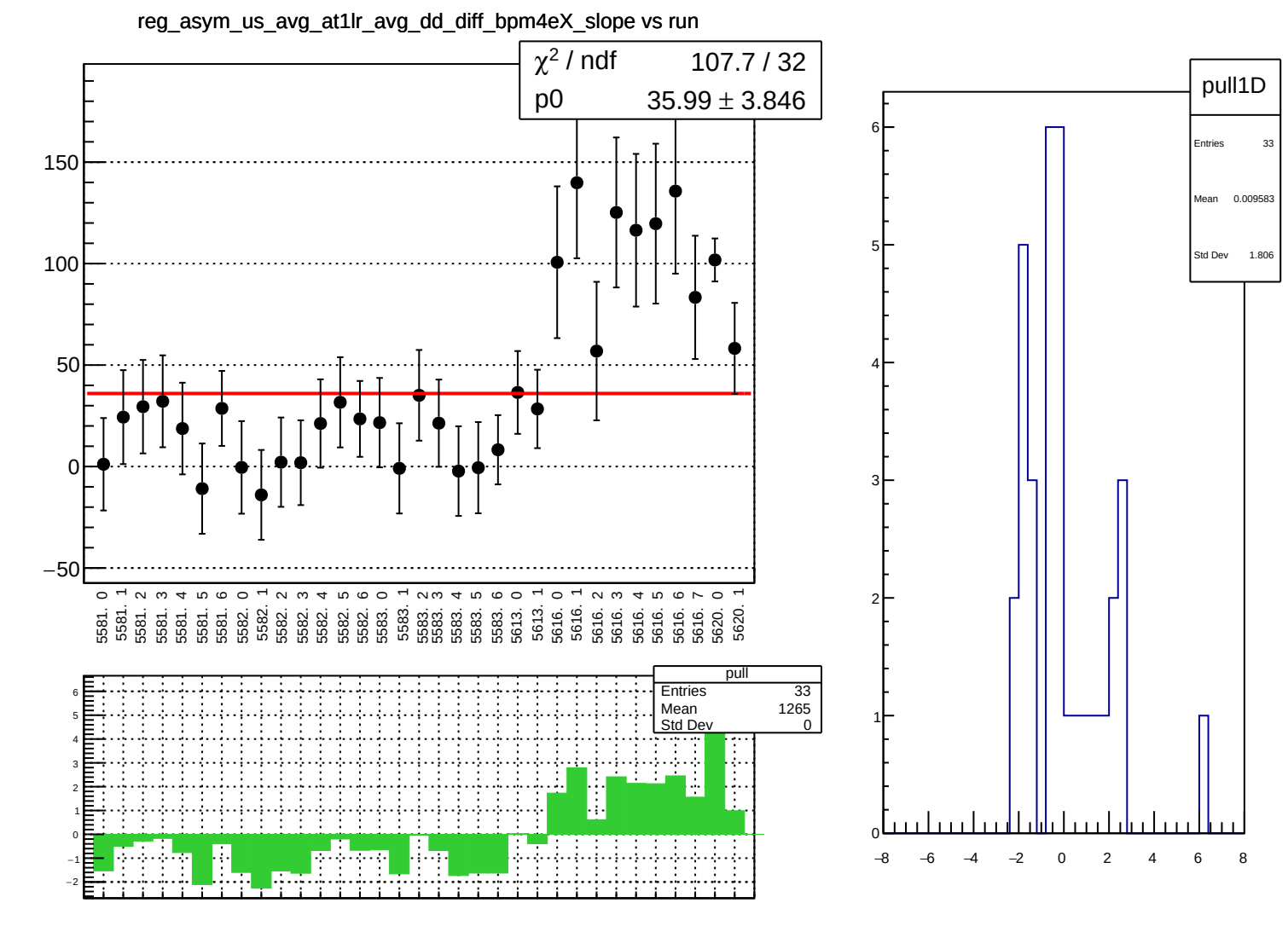

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.22 / 32
p0 −5.696 ± 6.033
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 122.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.03006
Std Dev 1.033
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

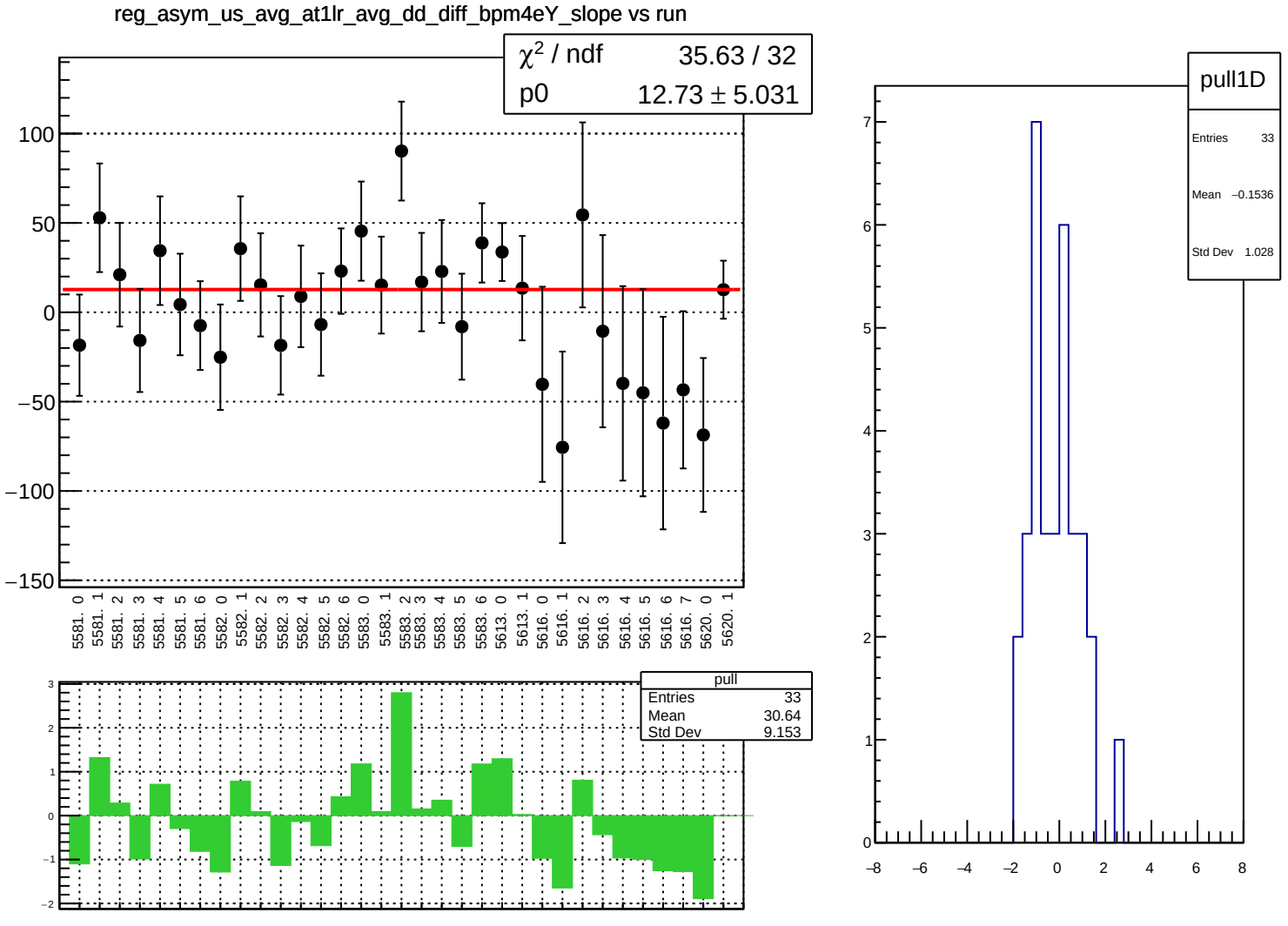

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 1.869e+04 / 32
p0 −25.8 ± 0.2033
pull
Entries 33
Mean −14.1
Std Dev 0
pull1D
Entries 33
Mean −2.108
Std Dev 1.027

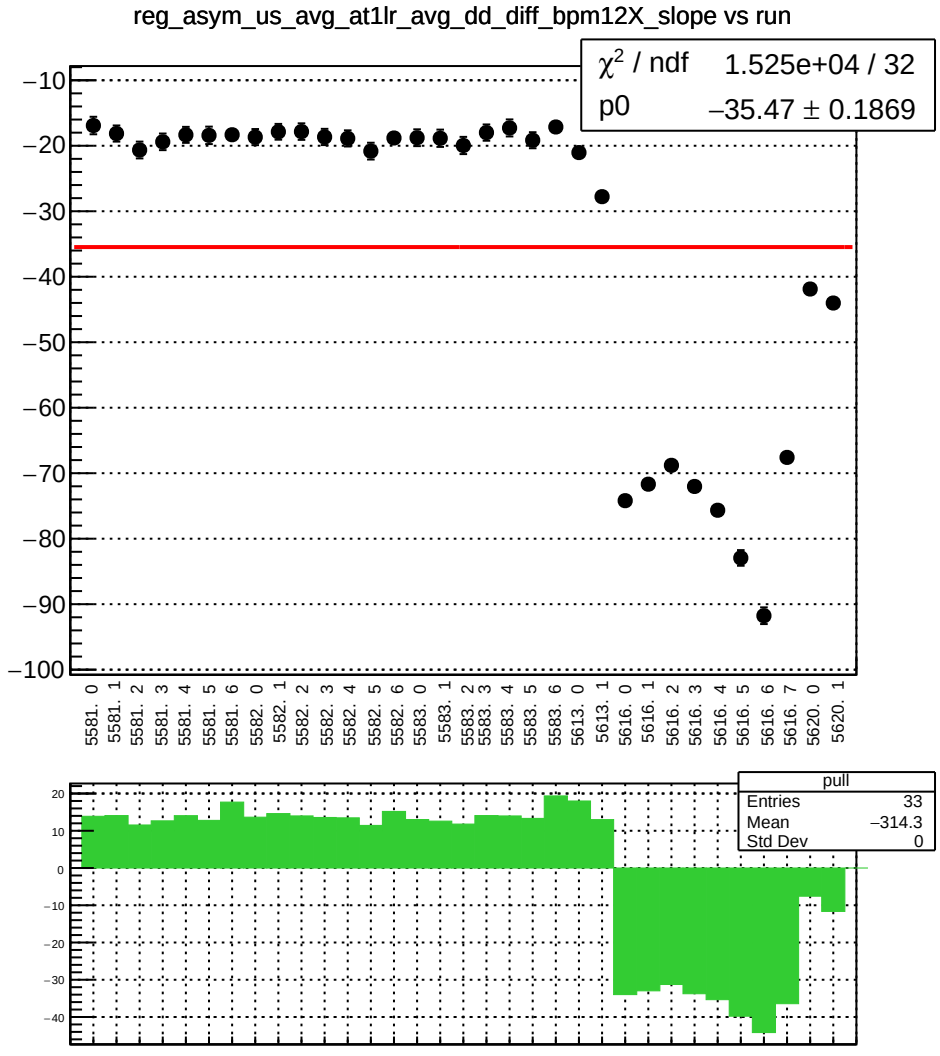

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 108.1 / 32
p0 −40.89 ± 4.715
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −71.29
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6

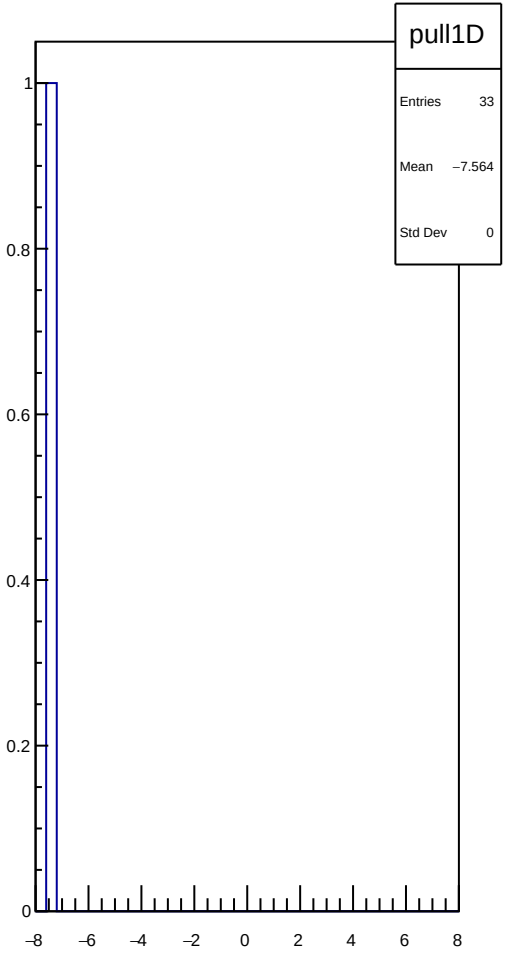

pull1D
Entries 33
Mean 0.1371
Std Dev 1.805
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

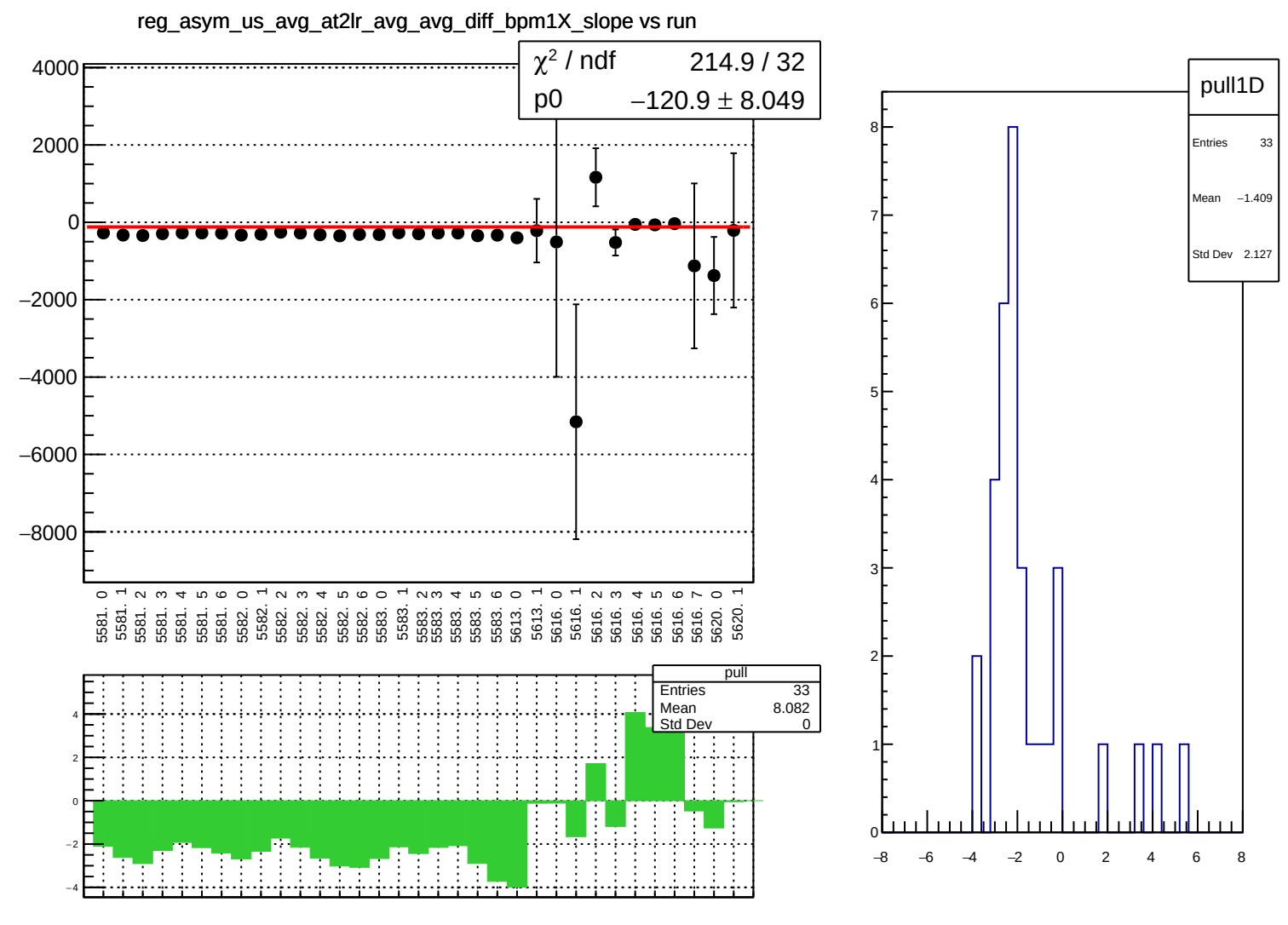

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.83 / 32
p0 13.65 ± 3.827
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 38.74
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 33
Mean 0.1876
Std Dev 1.137
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

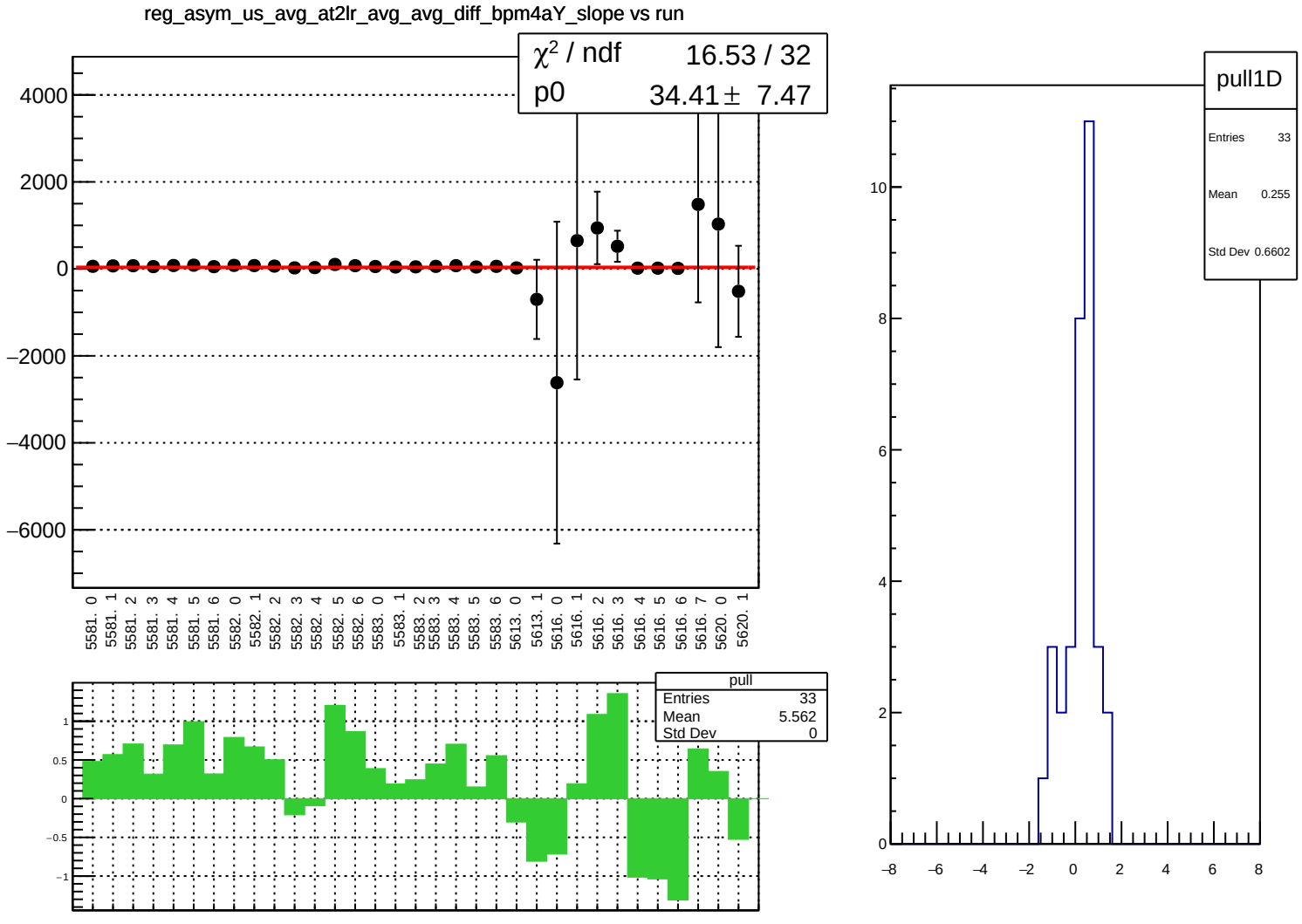

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 107.7 / 32
p0 35.99 ± 3.846
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 1265
Std Dev 0
6
5
4
3
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.009583
Std Dev 1.806
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

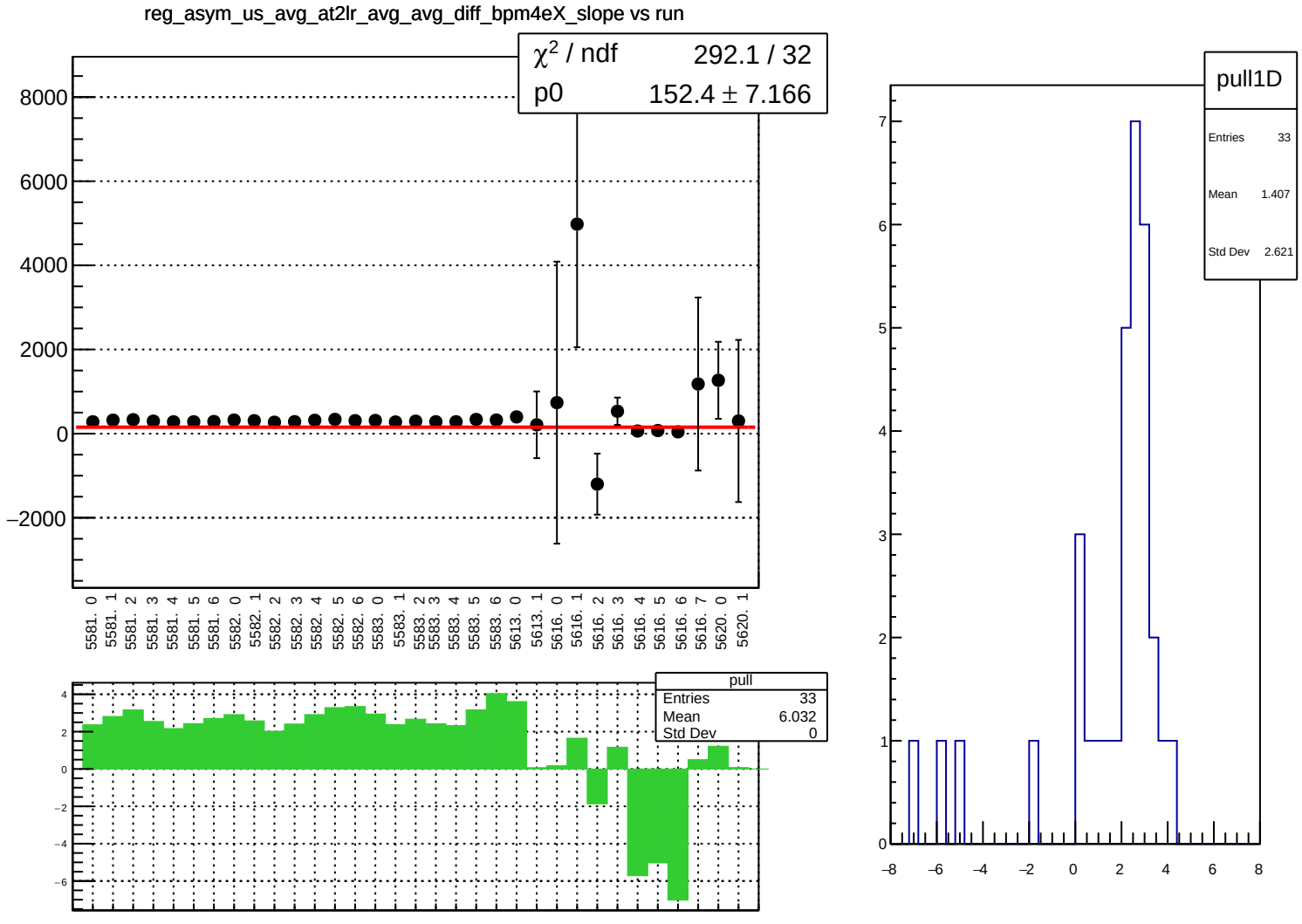

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.63 / 32
p0 12.73 ± 5.031
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 30.64
Std Dev 9.153
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.1536
Std Dev 1.028
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

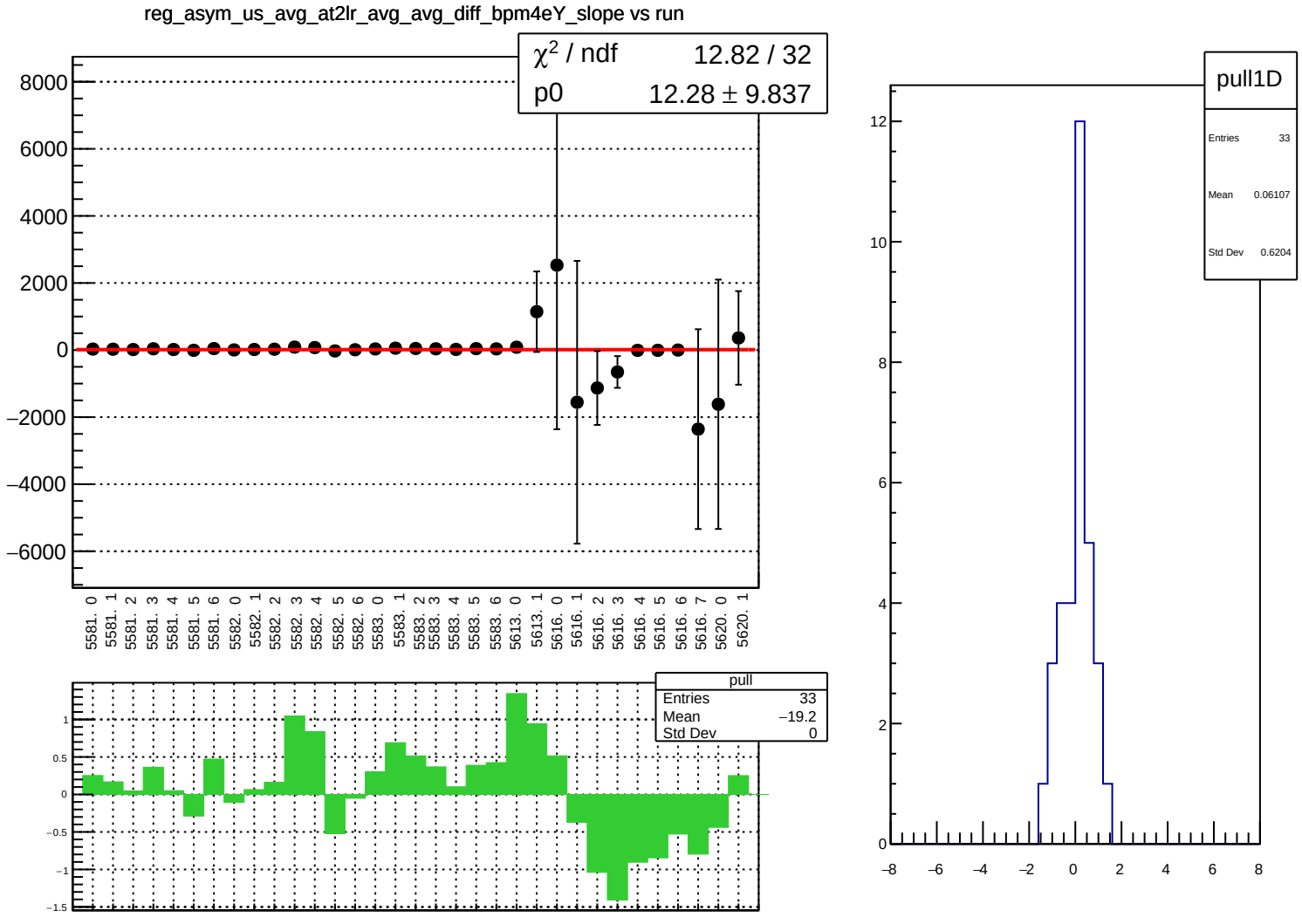

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1.525e+04 / 32
p0 −35.47 ± 0.1869
−10
−20
−30
−40
−50
−60
−70
−80
−90
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −314.3
Std Dev 0
20
10
0
−10
−20
−30
−40

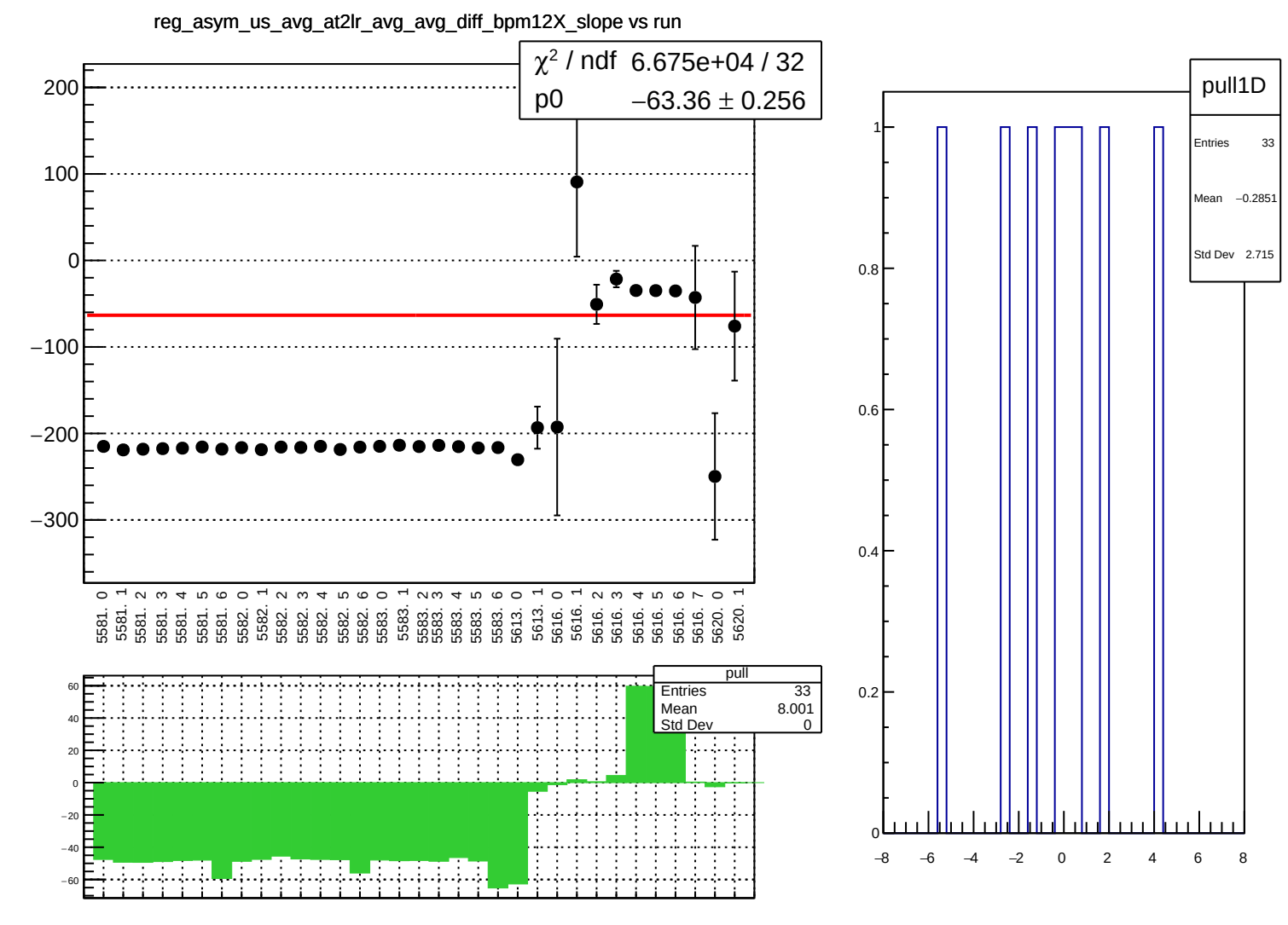

pull1D
Entries 33
Mean −7.564
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

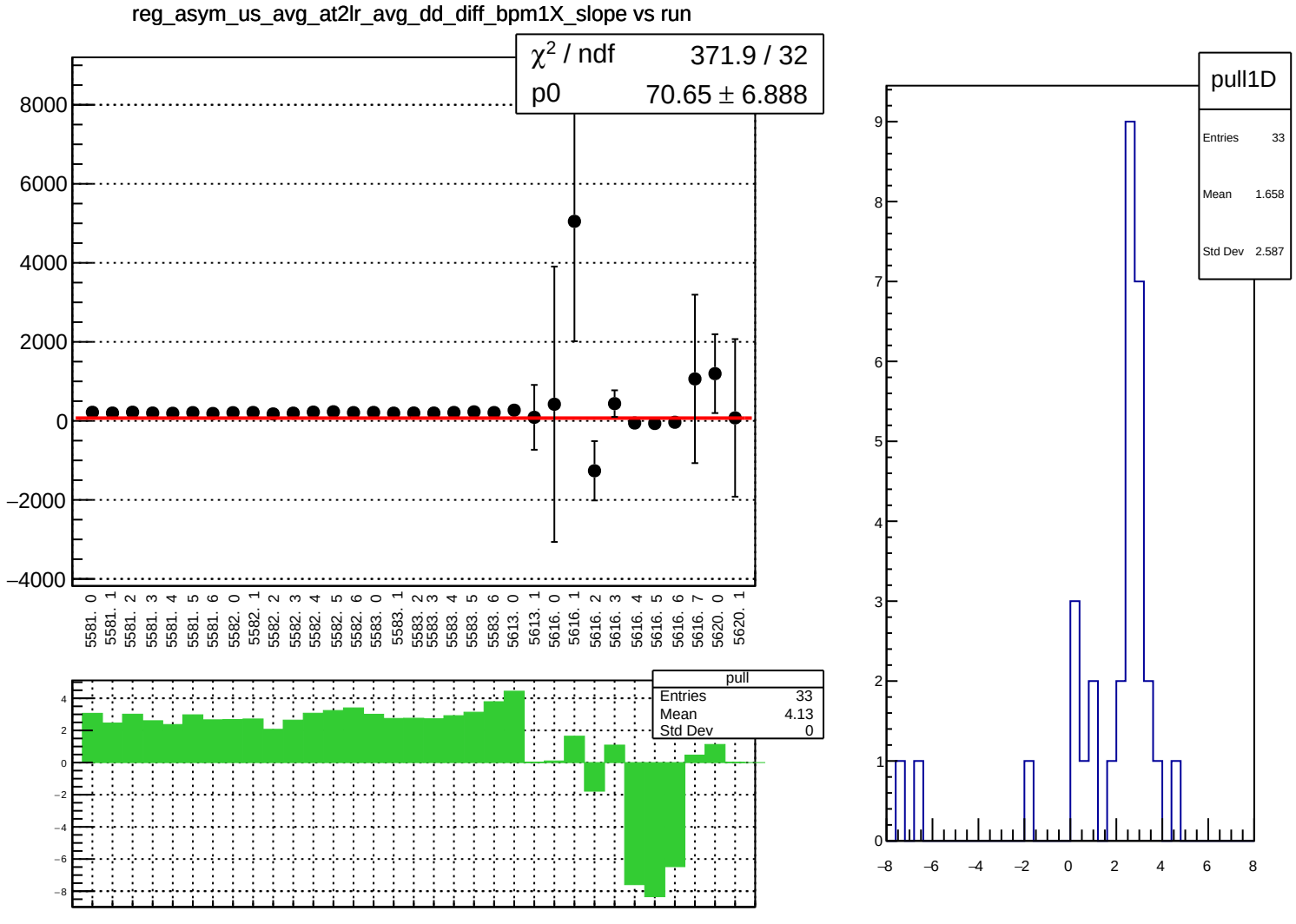

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 214.9 / 32
p0 −120.9 ± 8.049
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 8.082
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 33
Mean −1.409
Std Dev 2.127
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

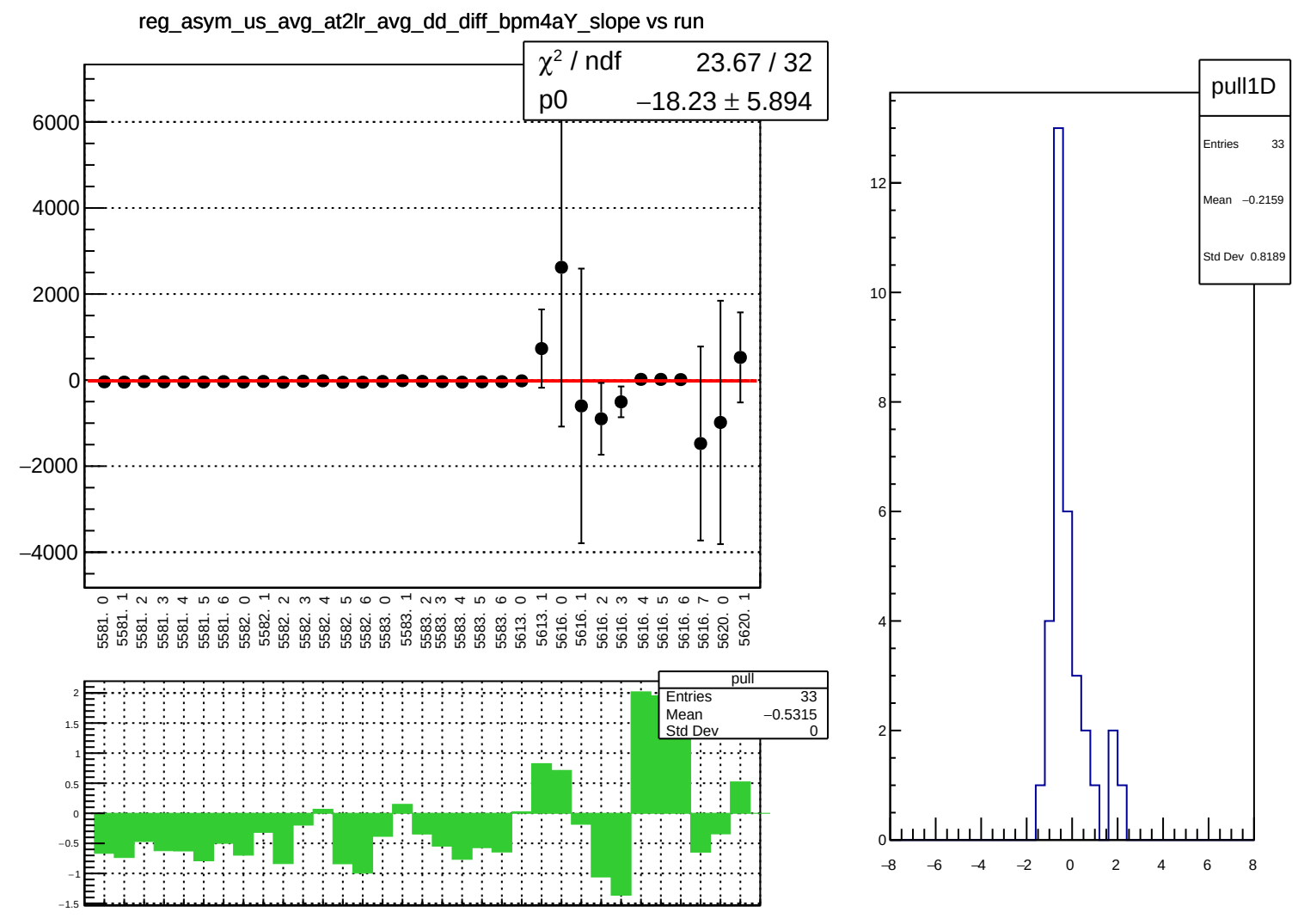

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.53 / 32
p0 34.41 ± 7.47
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5.562
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.255
Std Dev 0.6602
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

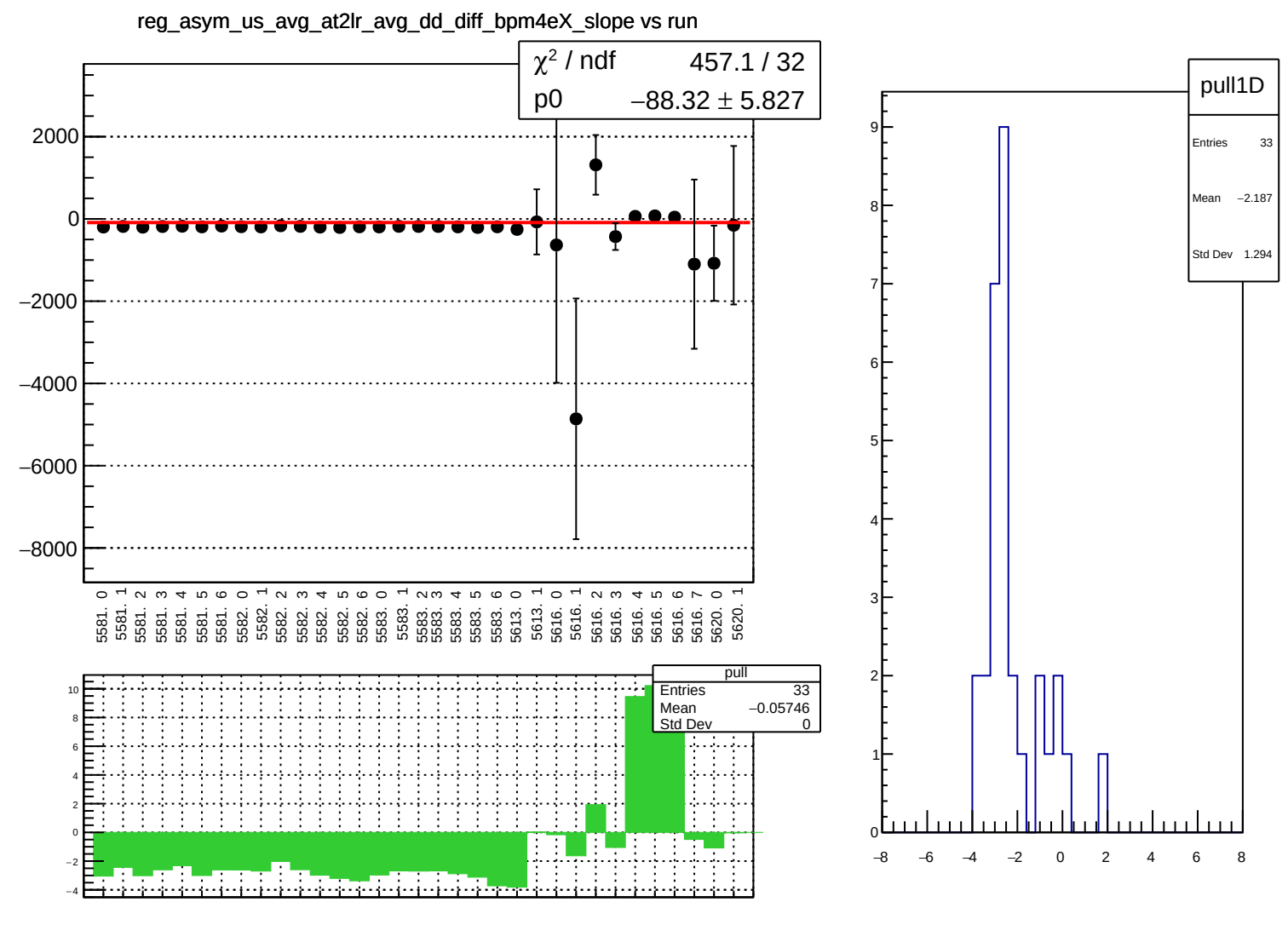

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 292.1 / 32
p0 152.4 ± 7.166
8000
6000
4000
2000
0
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 6.032
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 33
Mean 1.407
Std Dev 2.621
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

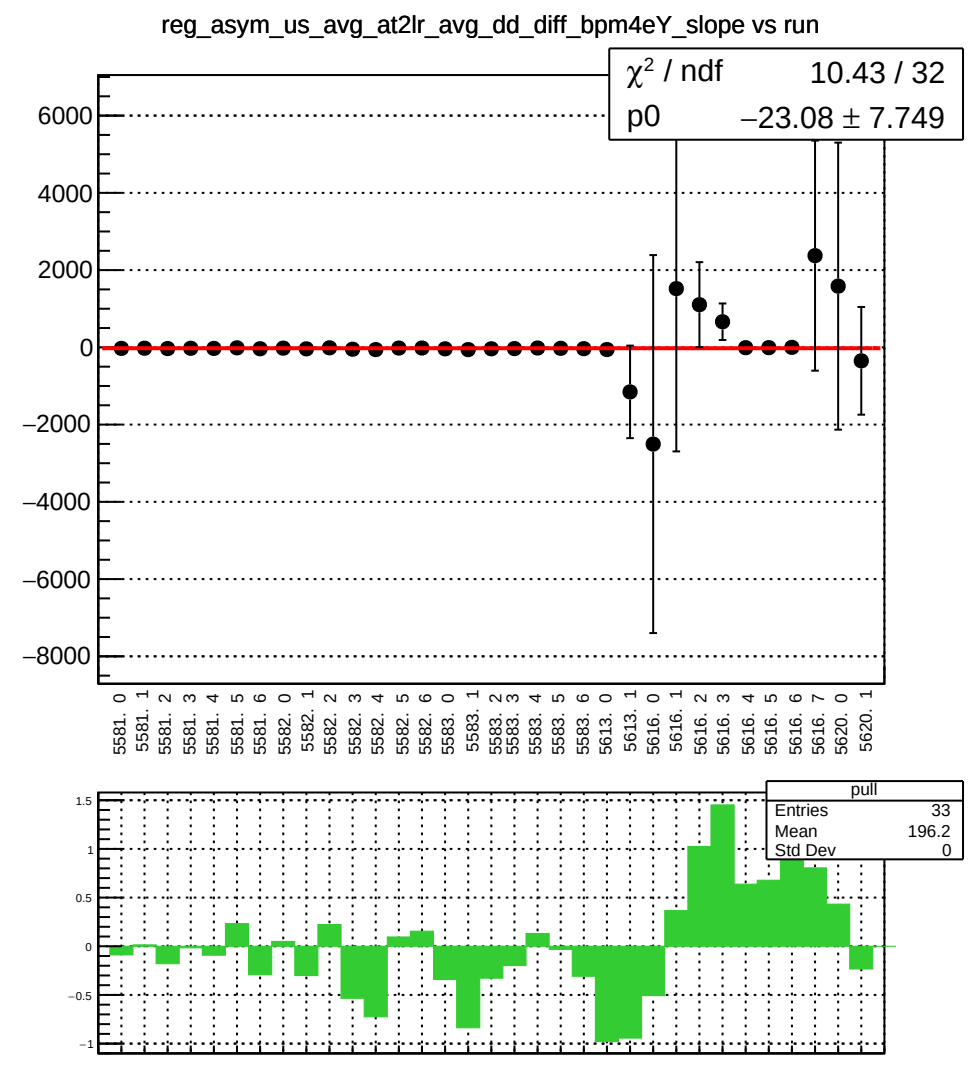

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.82 / 32
p0 12.28 ± 9.837
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −19.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.06107
Std Dev 0.6204
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

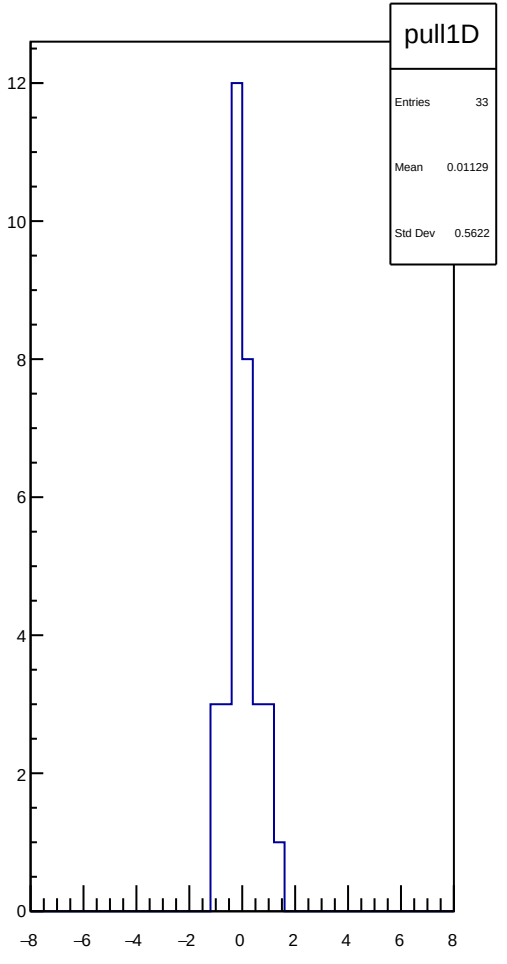

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 6.675e+04 / 32
p0 −63.36 ± 0.256
200
100
0
−100
−200
−300
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 8.001
Std Dev 0
60
40
20
0
−20
−40
−60
pull1D
Entries 33
Mean −0.2851
Std Dev 2.715
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

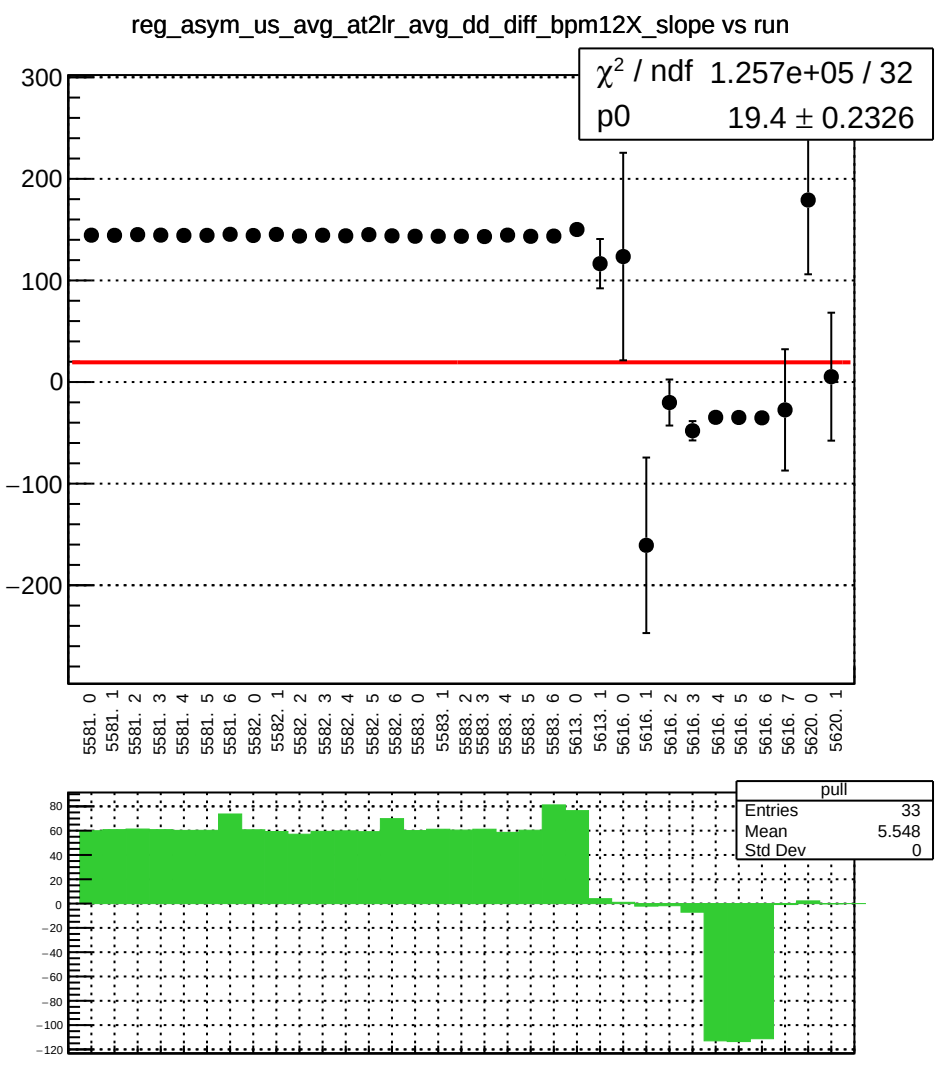

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 371.9 / 32
p0 70.65 ± 6.888
8000
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 4.13
Std Dev 0
4
2
0
−2
−4
−6
−8
pull1D
Entries 33
Mean 1.658
Std Dev 2.587
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

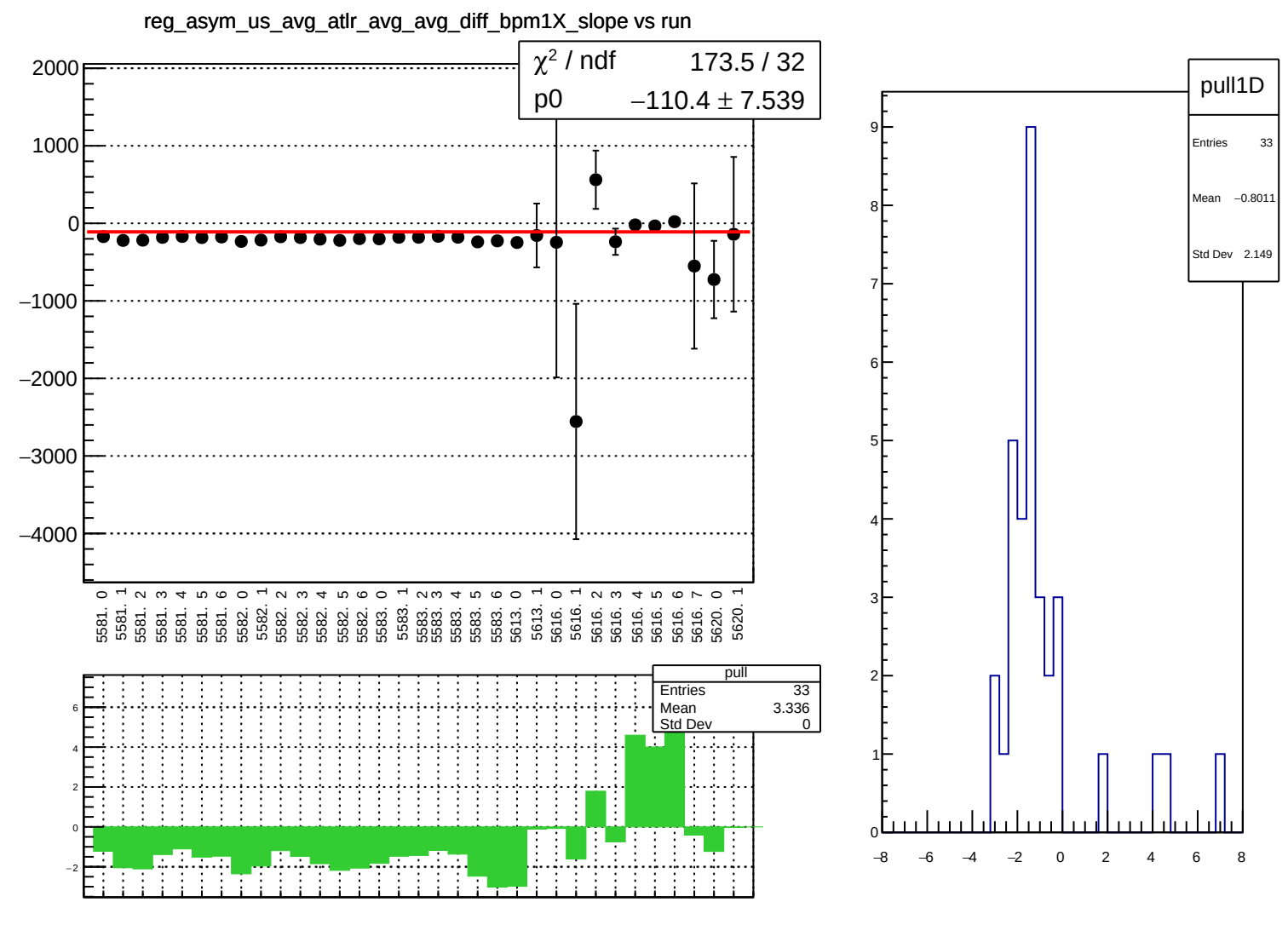

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.67 / 32
p0 −18.23 ± 5.894
6000
4000
2000
0
−2000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.5315
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.2159
Std Dev 0.8189
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

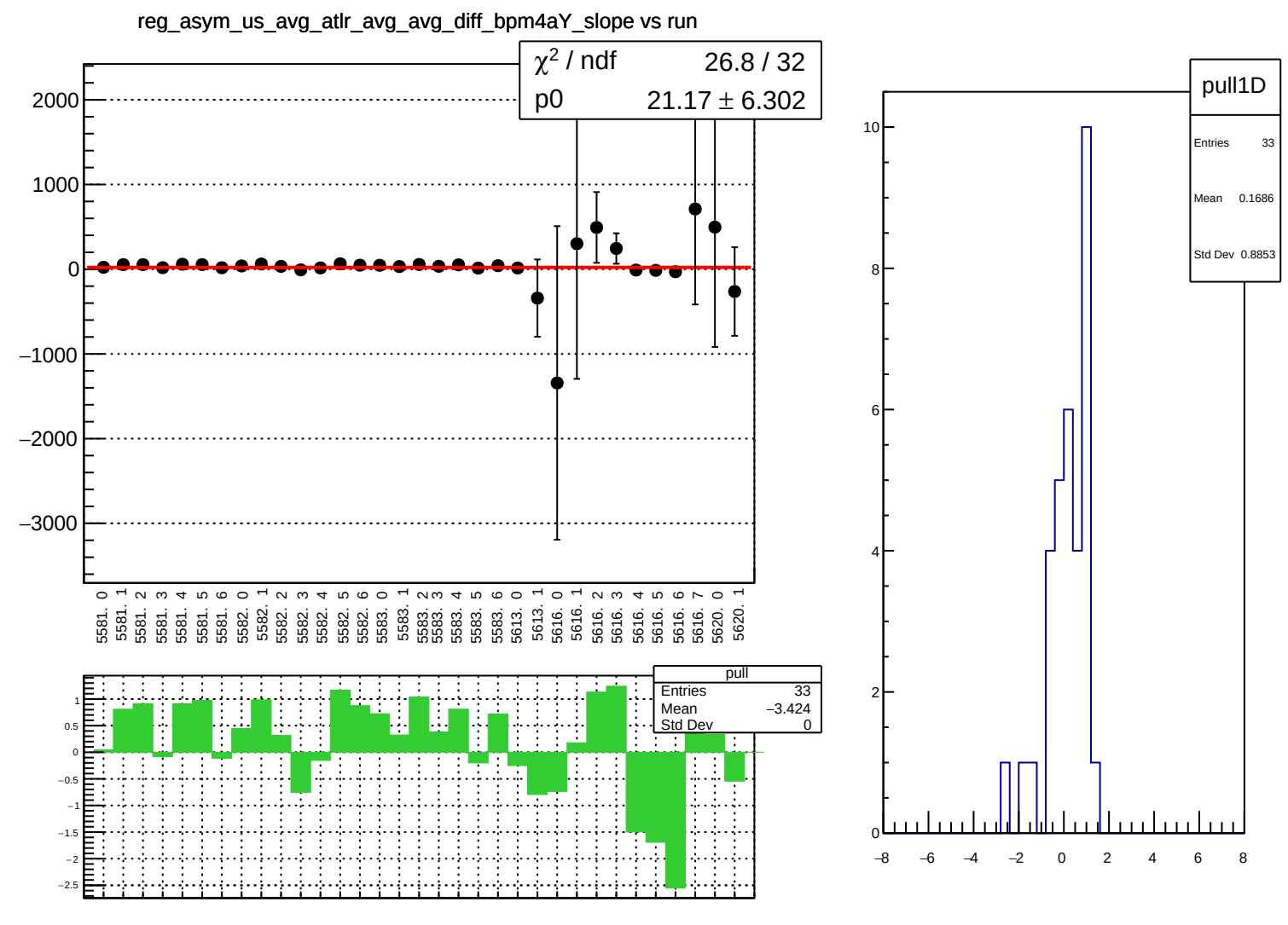

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 457.1 / 32
p0 −88.32 ± 5.827
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −0.05746
Std Dev 0
10
8
6
4
2
0
−2
−4
pull1D
Entries 33
Mean −2.187
Std Dev 1.294
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

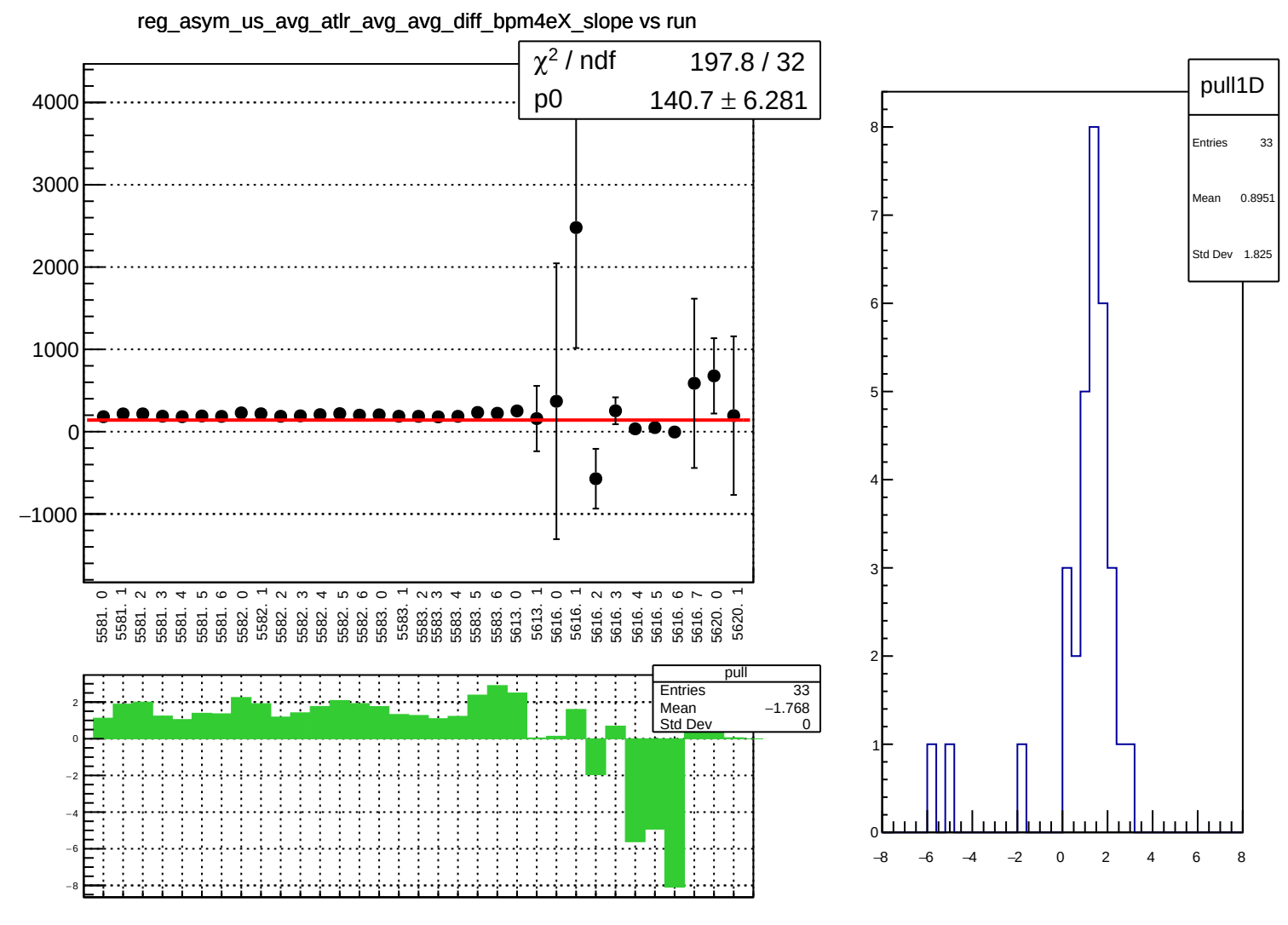

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.43 / 32
p0 −23.08 ± 7.749
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 196.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1

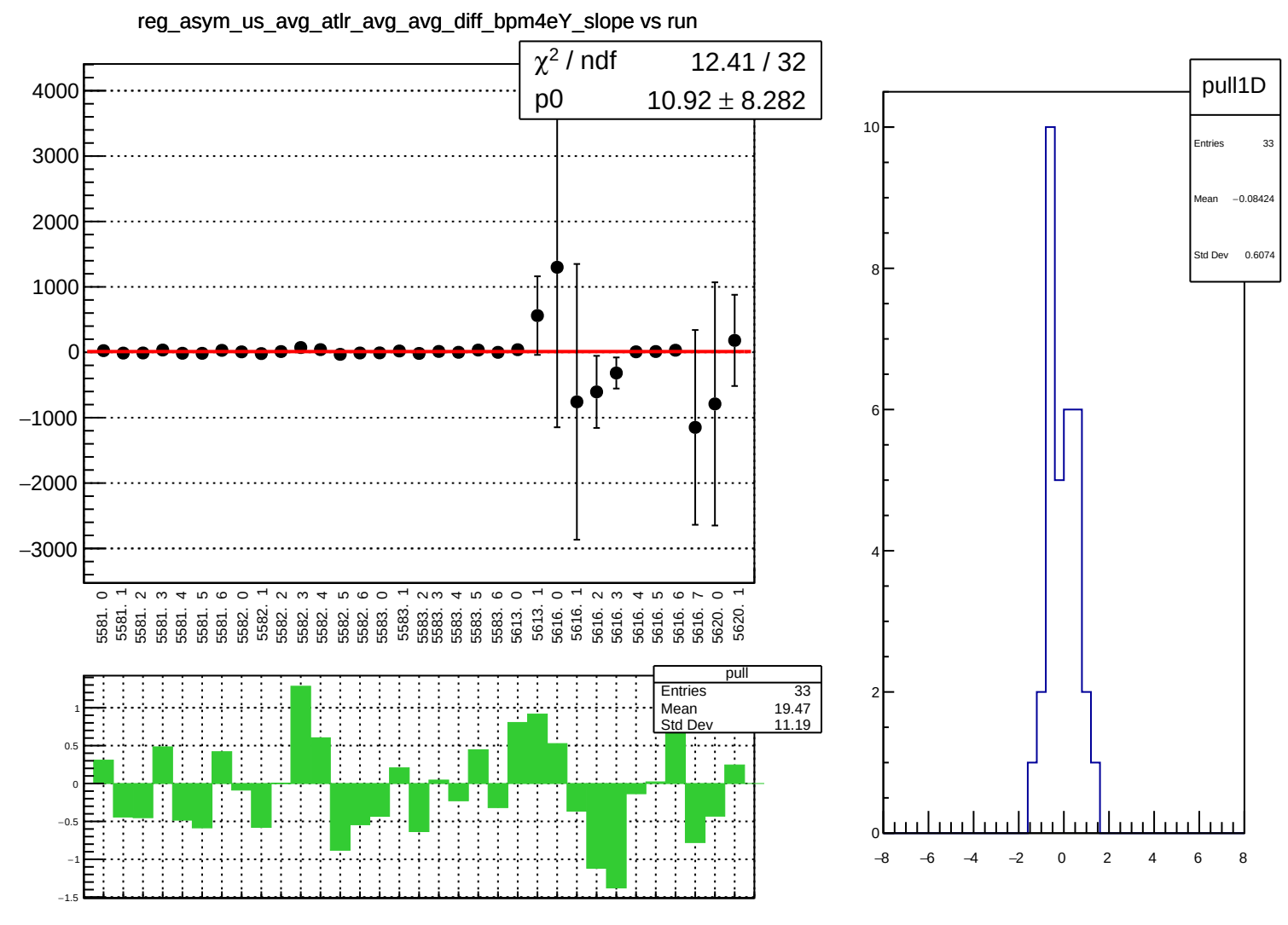

pull1D
Entries 33
Mean 0.01129
Std Dev 0.5622
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

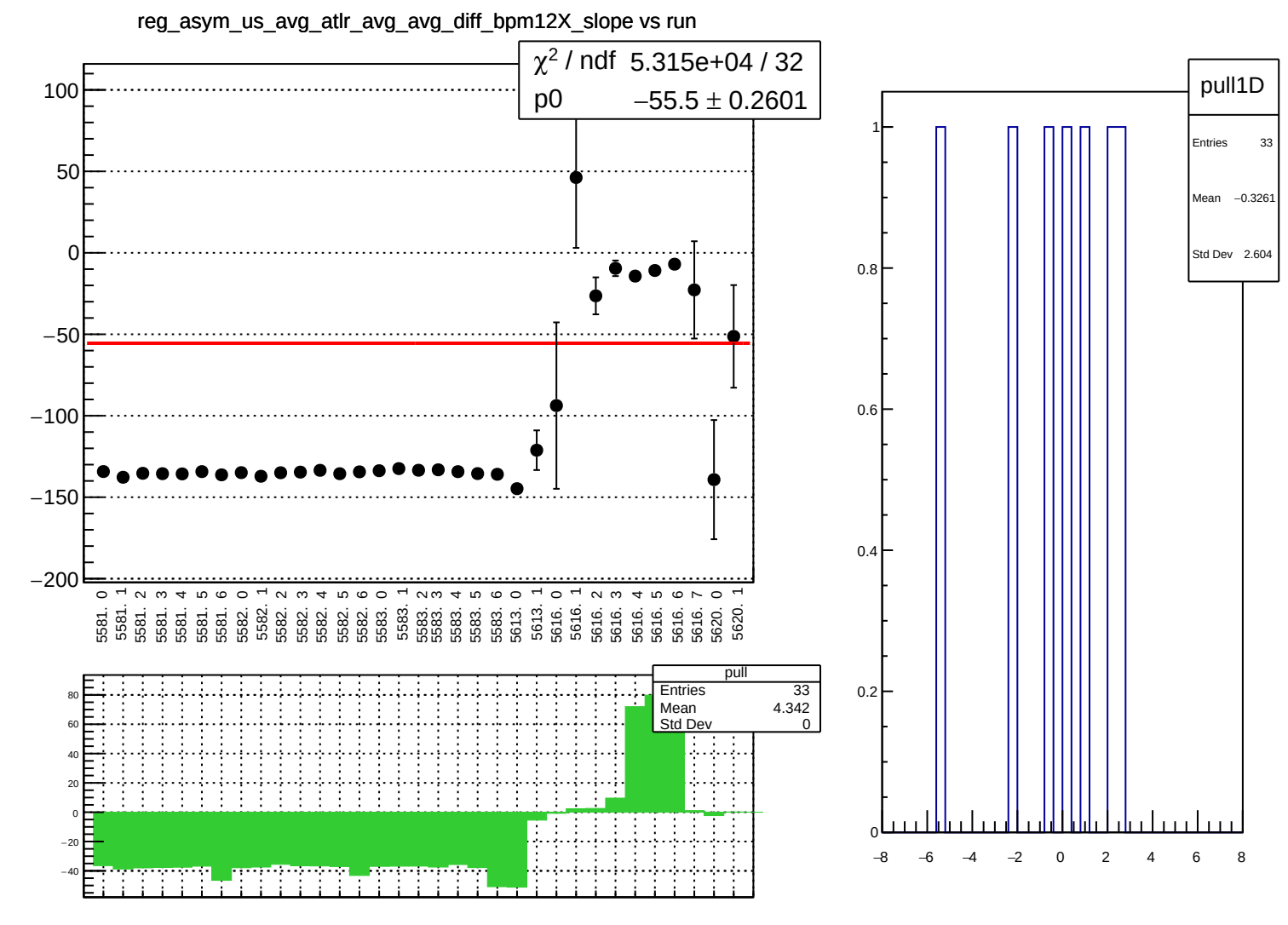

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1.257e+05 / 32
p0 19.4 ± 0.2326
300
200
100
0
−100
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 5.548
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 33
Mean −0.5887
Std Dev 3.106
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

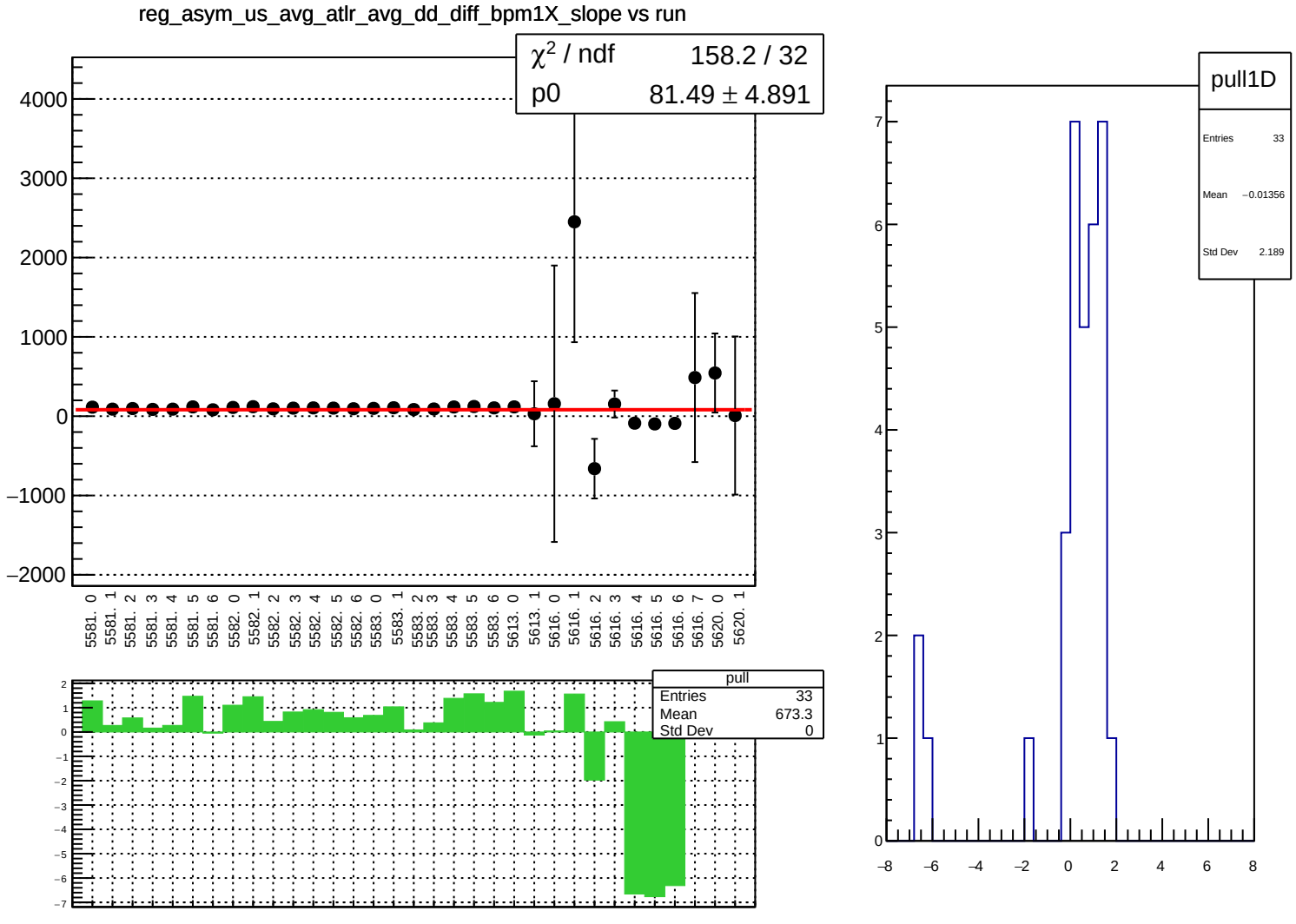

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 173.5 / 32
p0 −110.4 ± 7.539
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 3.336
Std Dev 0
6
4
2
0
−2
pull1D
Entries 33
Mean −0.8011
Std Dev 2.149
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

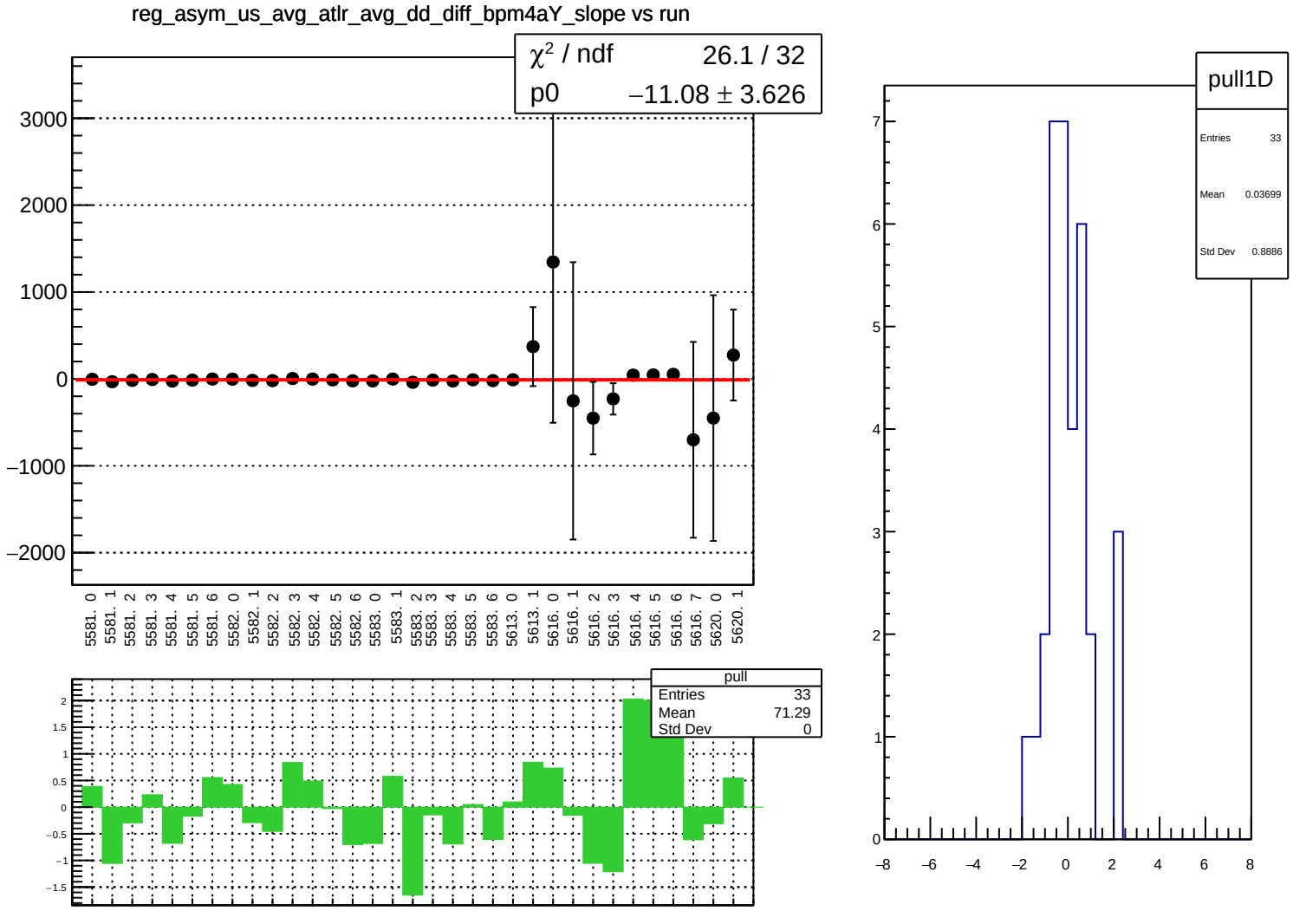

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.8 / 32
p0 21.17 ± 6.302
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −3.424
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.1686
Std Dev 0.8853
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

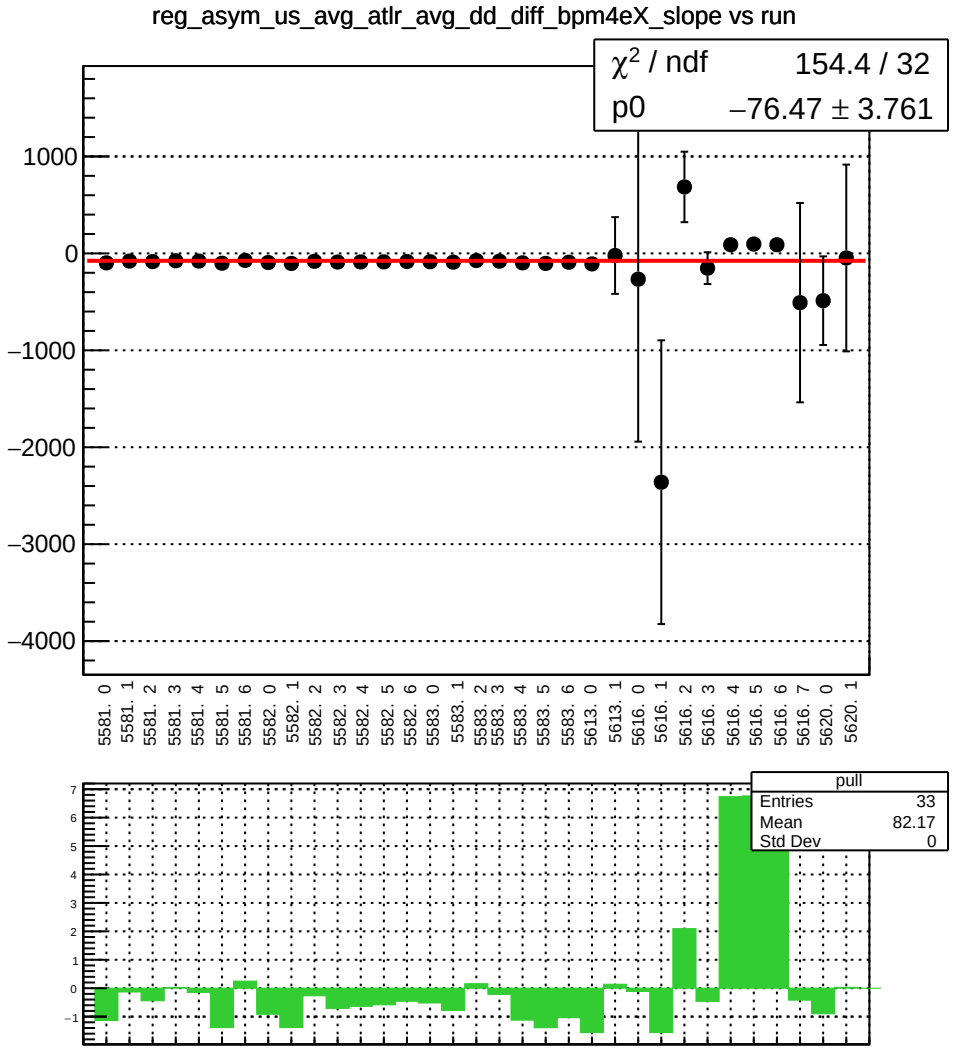

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 197.8 / 32
p0 140.7 ± 6.281
4000
3000
2000
1000
0
−1000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −1.768
Std Dev 0
2
0
−2
−4
−6
−8
pull1D
Entries 33
Mean 0.8951
Std Dev 1.825
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

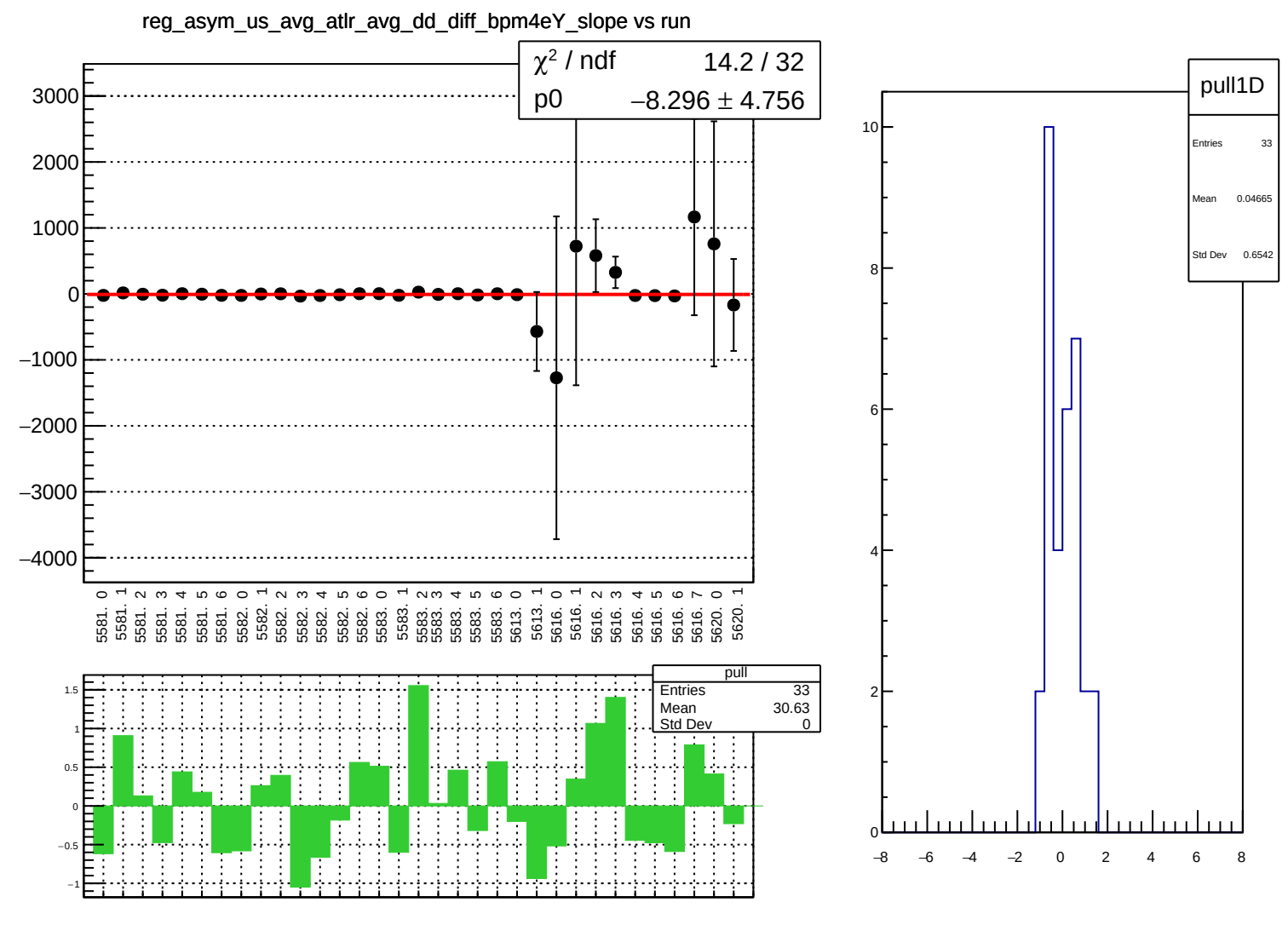

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.41 / 32
p0 10.92 ± 8.282
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 19.47
Std Dev 11.19
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.08424
Std Dev 0.6074
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

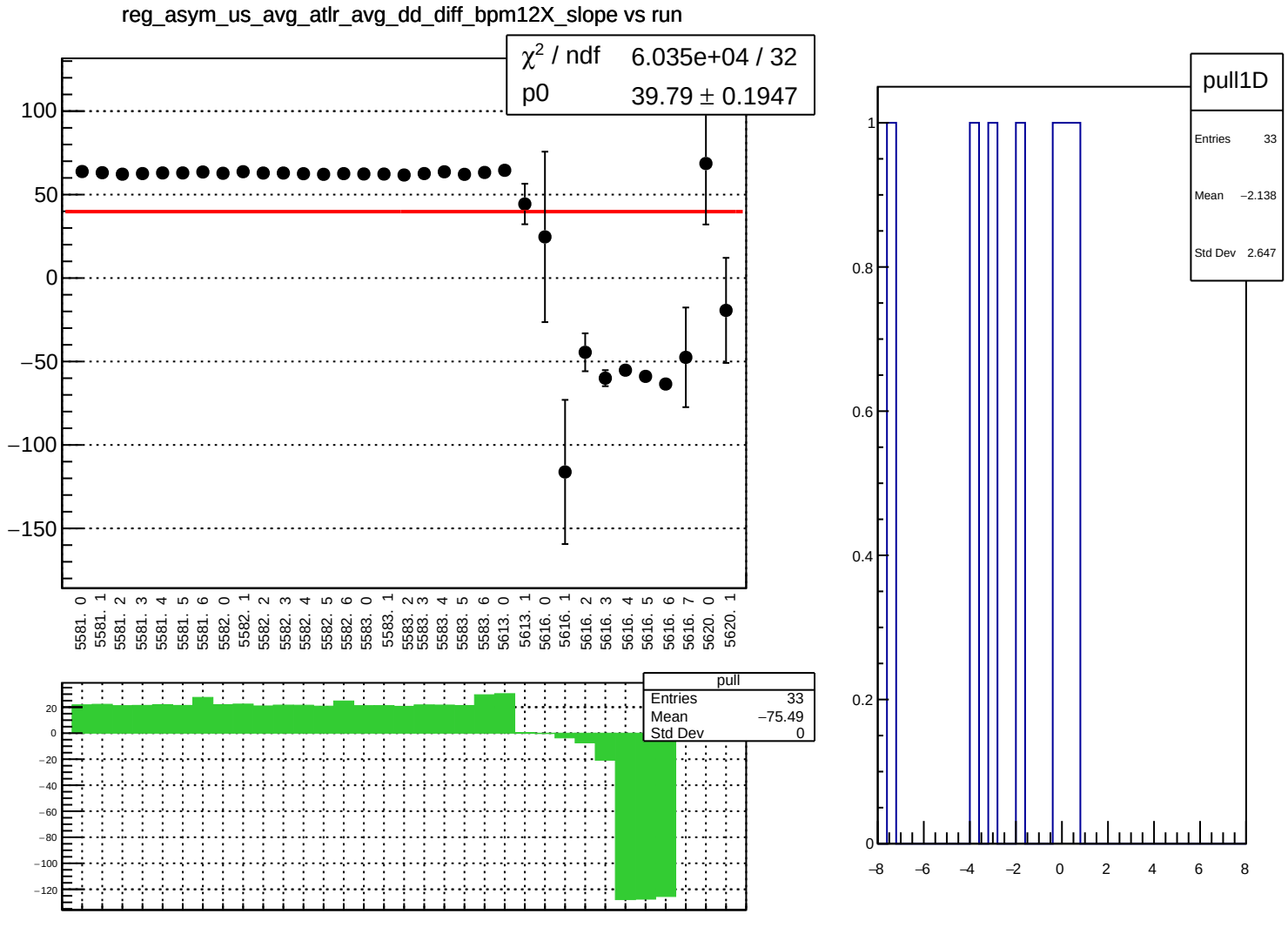

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 5.315e+04 / 32
p0 −55.5 ± 0.2601
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 4.342
Std Dev 0
80
60
40
20
0
−20
−40
pull1D
Entries 33
Mean −0.3261
Std Dev 2.604
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

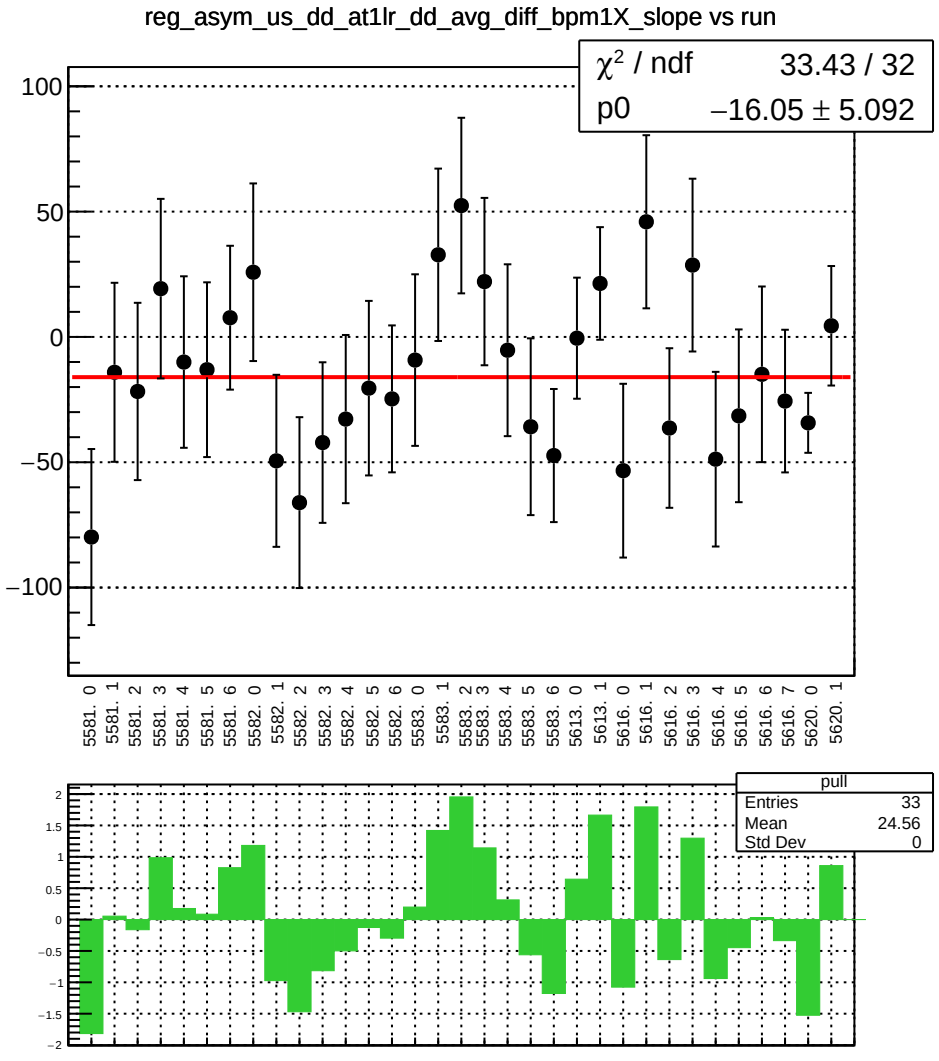

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 158.2 / 32
p0 81.49 ± 4.891
4000
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 673.3
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 33
Mean −0.01356
Std Dev 2.189
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

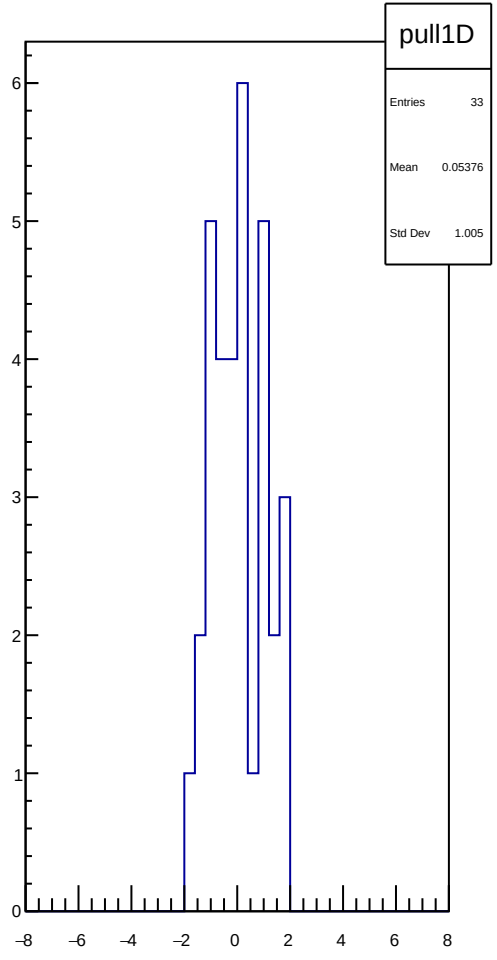

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.1 / 32
p0 −11.08 ± 3.626
3000
2000
1000
0
−1000
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 71.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.03699
Std Dev 0.8886
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

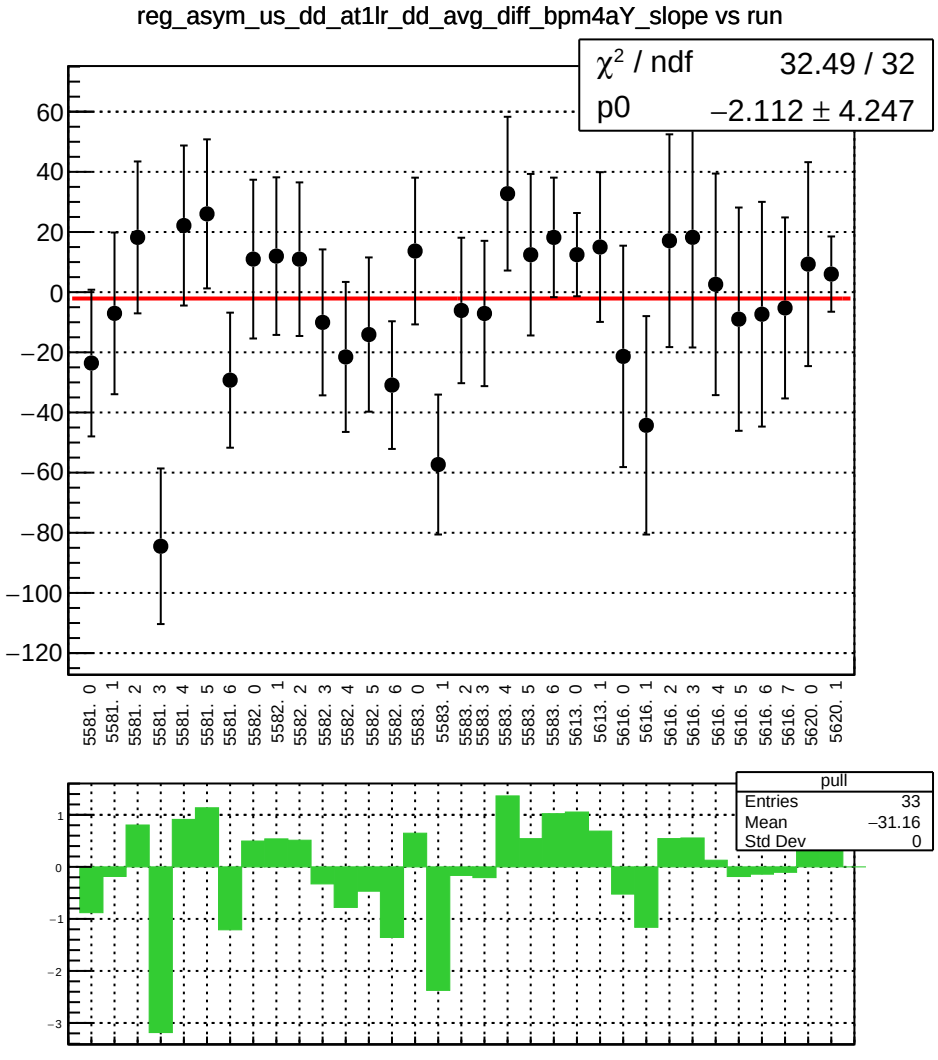

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 154.4 / 32
p0 −76.47 ± 3.761
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 82.17
Std Dev 0
pull1D
Entries 33
Mean 0.1275
Std Dev 2.159

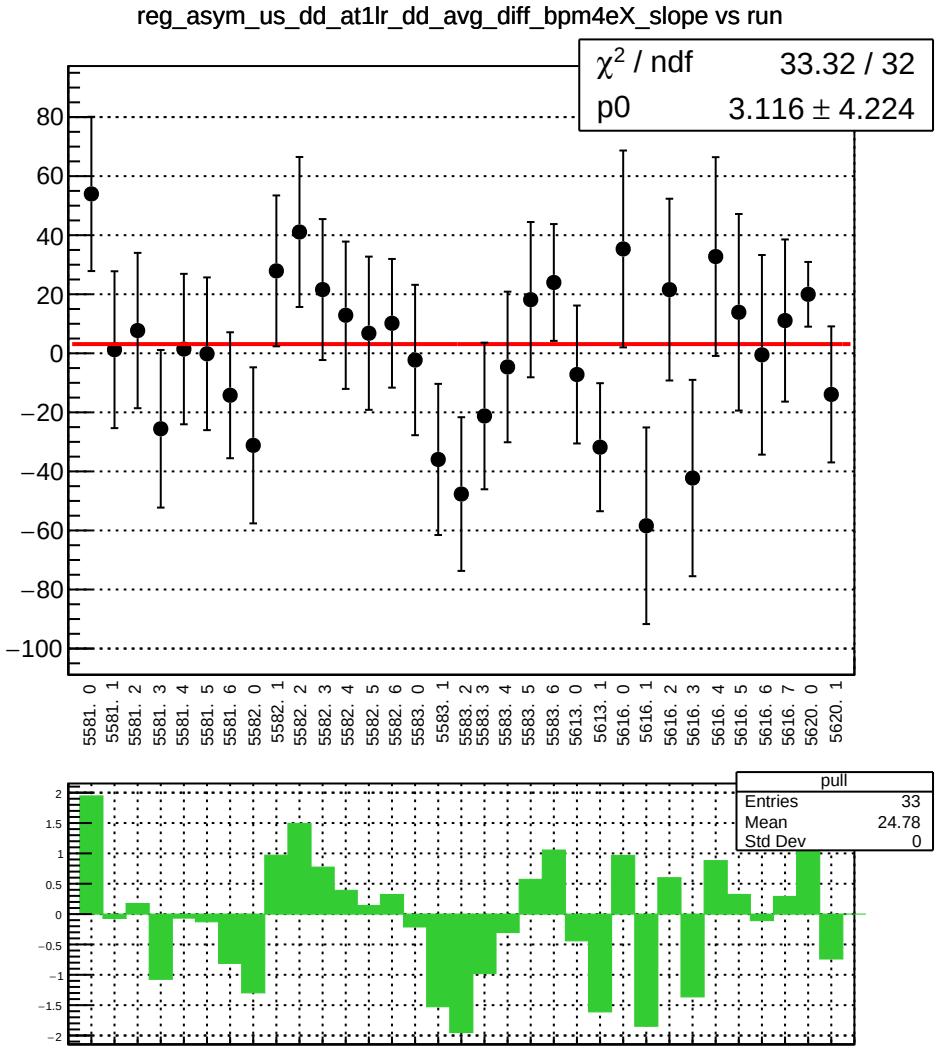

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.2 / 32
p0 −8.296 ± 4.756
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 30.63
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 33
Mean 0.04665
Std Dev 0.6542
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

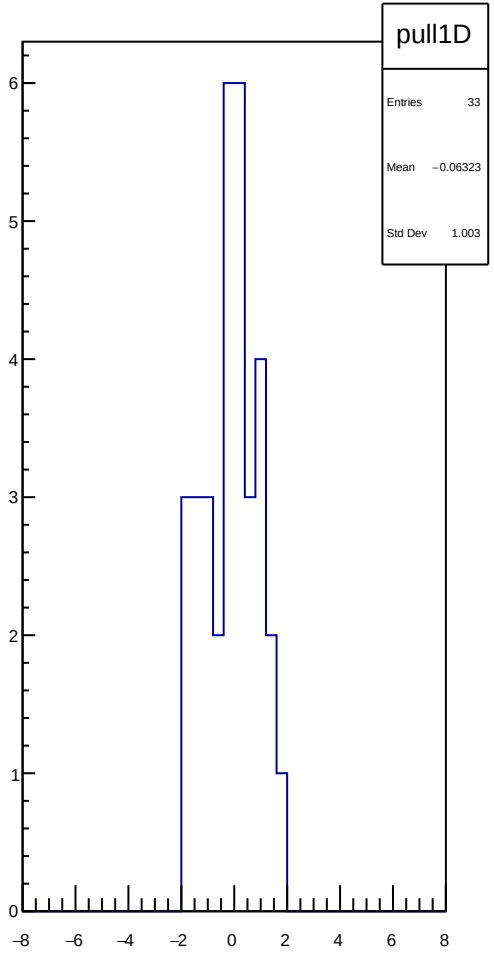

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 6.035e+04 / 32
p0 39.79 ± 0.1947
100
50
0
−50
−100
−150
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −75.49
Std Dev 0
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 33
Mean −2.138
Std Dev 2.647
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

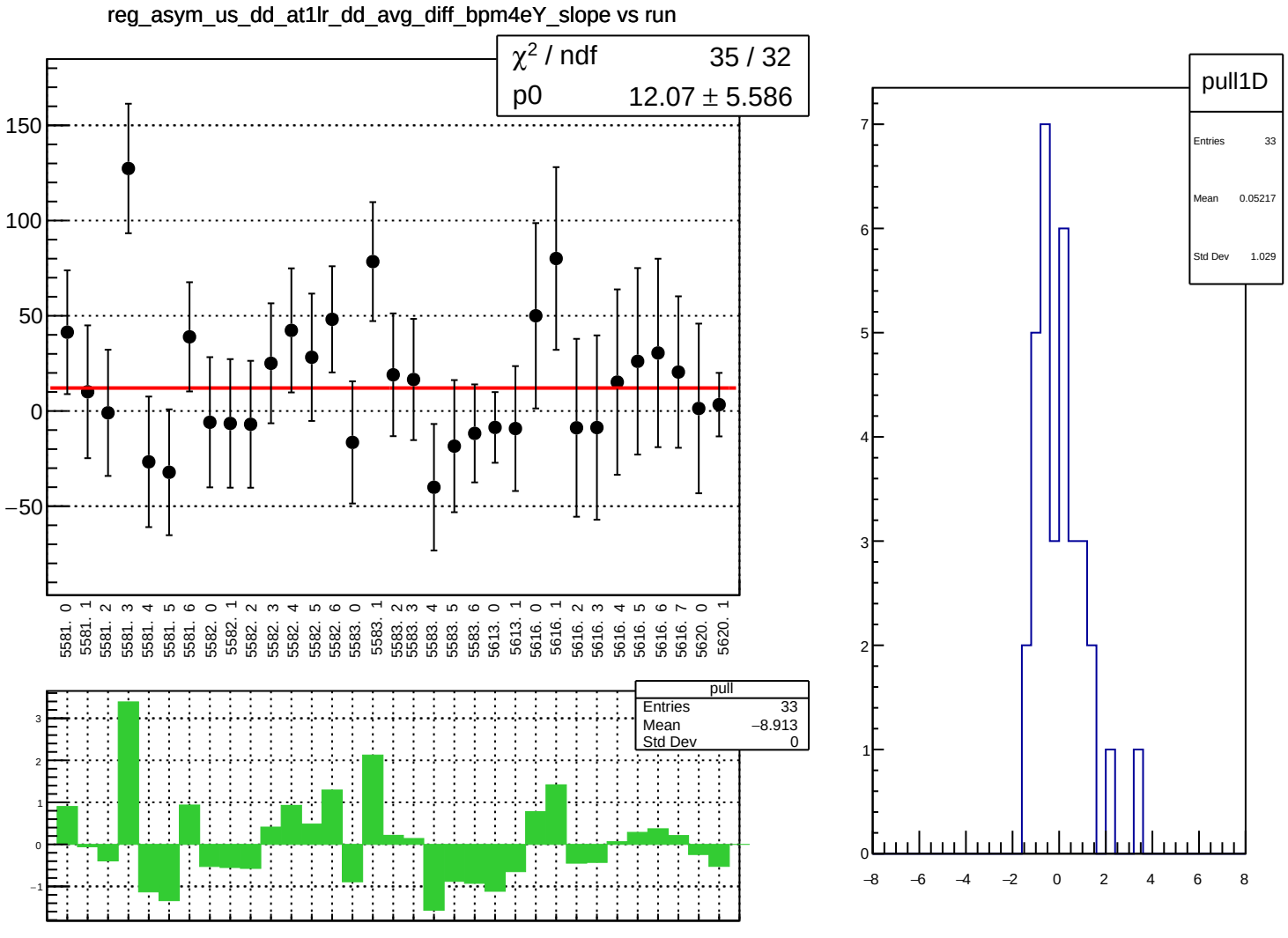

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 33.43 / 32
p0 −16.05 ± 5.092
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 24.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

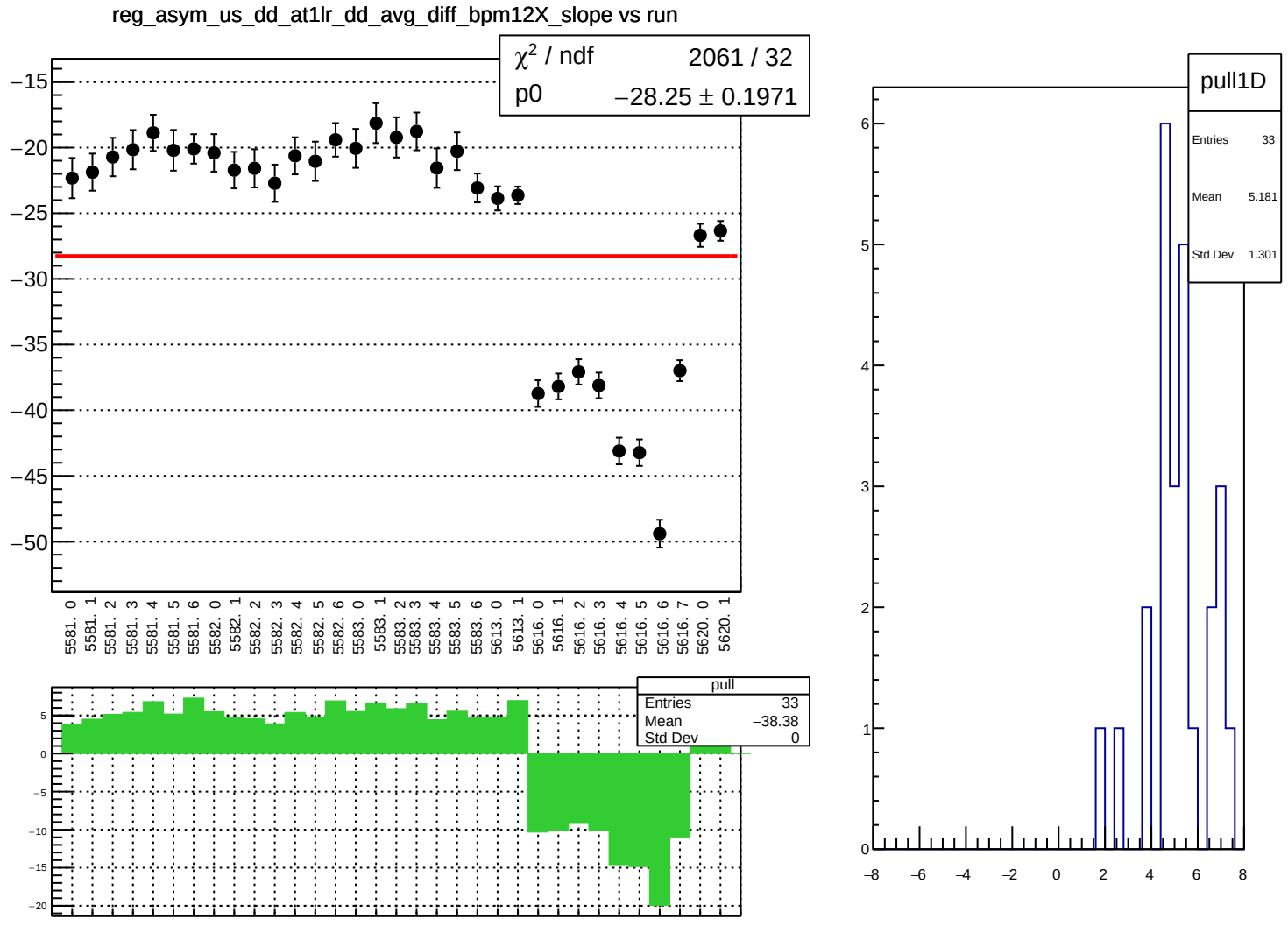

pull1D
Entries 33
Mean 0.05376
Std Dev 1.005
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

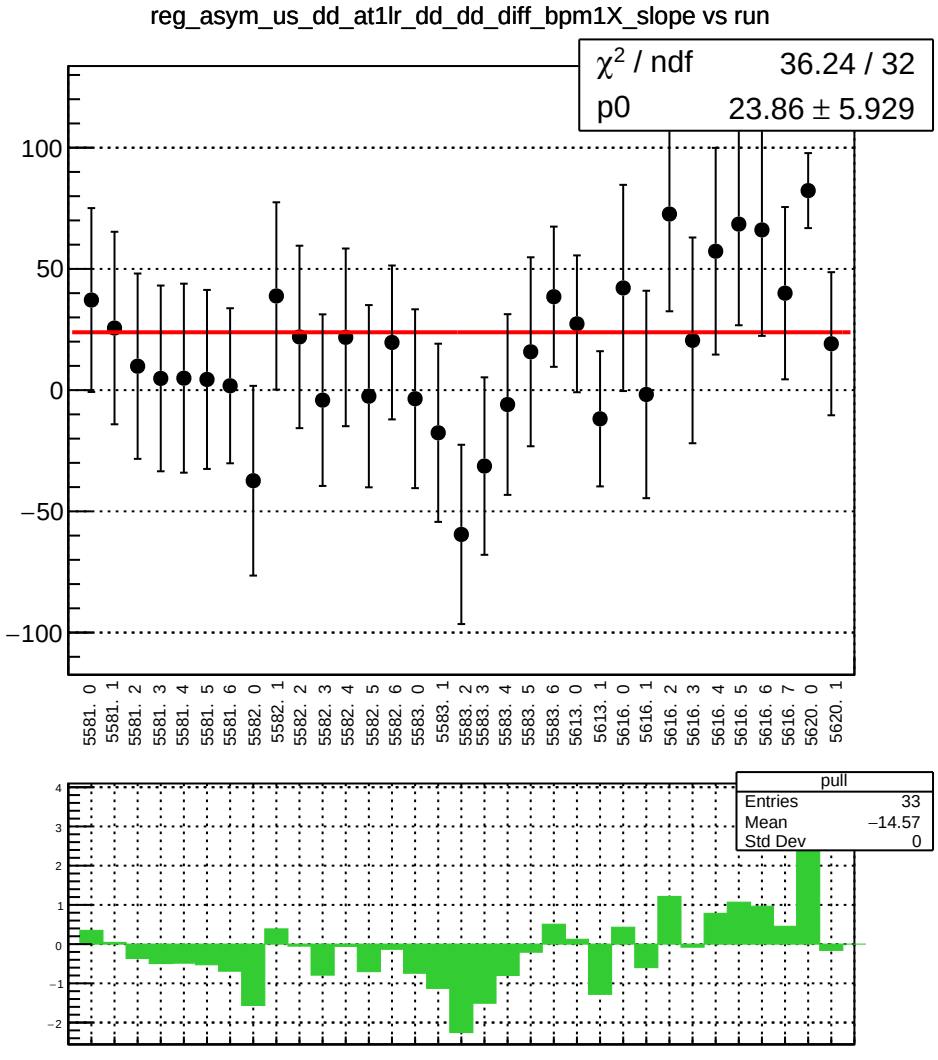

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.49 / 32
p0 −2.112 ± 4.247
pull
Entries 33
Mean −31.16
Std Dev 0
pull1D
Entries 33
Mean −0.03982
Std Dev 0.9915

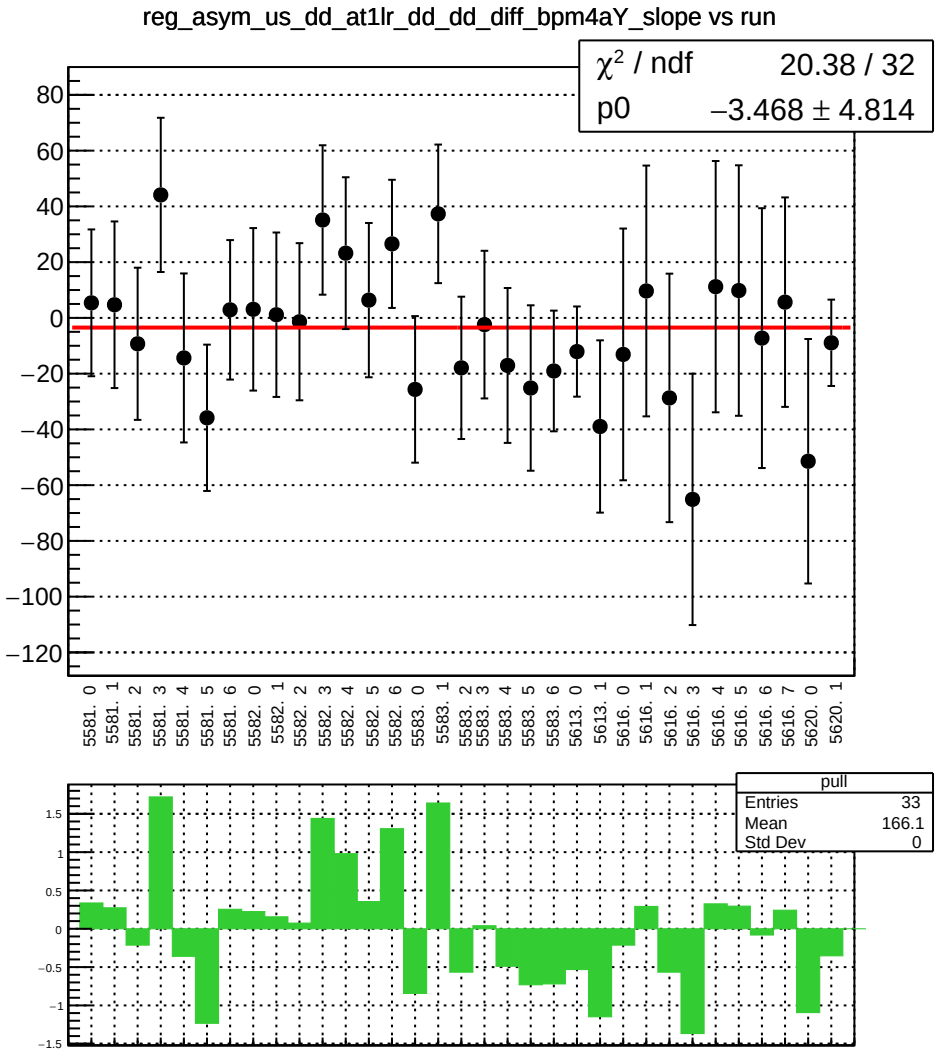

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.32 / 32
p0 3.116 ± 4.224
pull
Entries 33
Mean 24.78
Std Dev 0

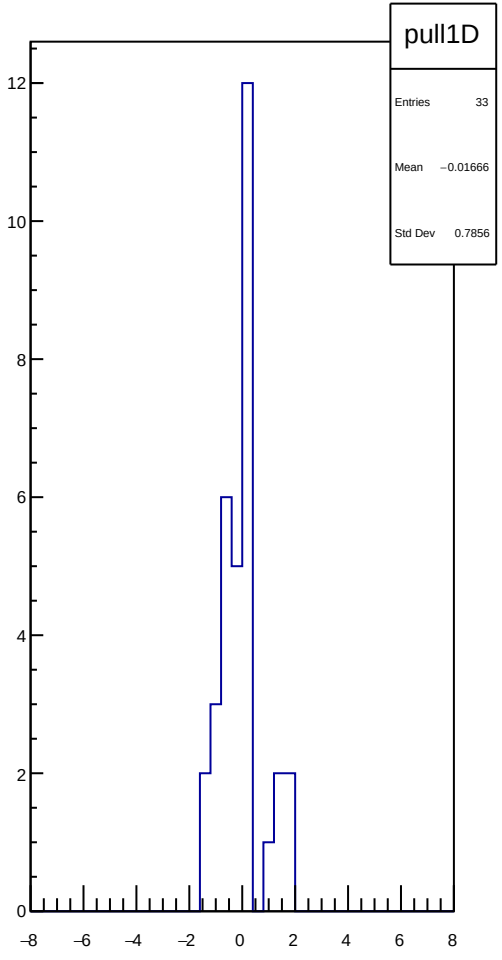

pull1D
Entries 33
Mean −0.06323
Std Dev 1.003

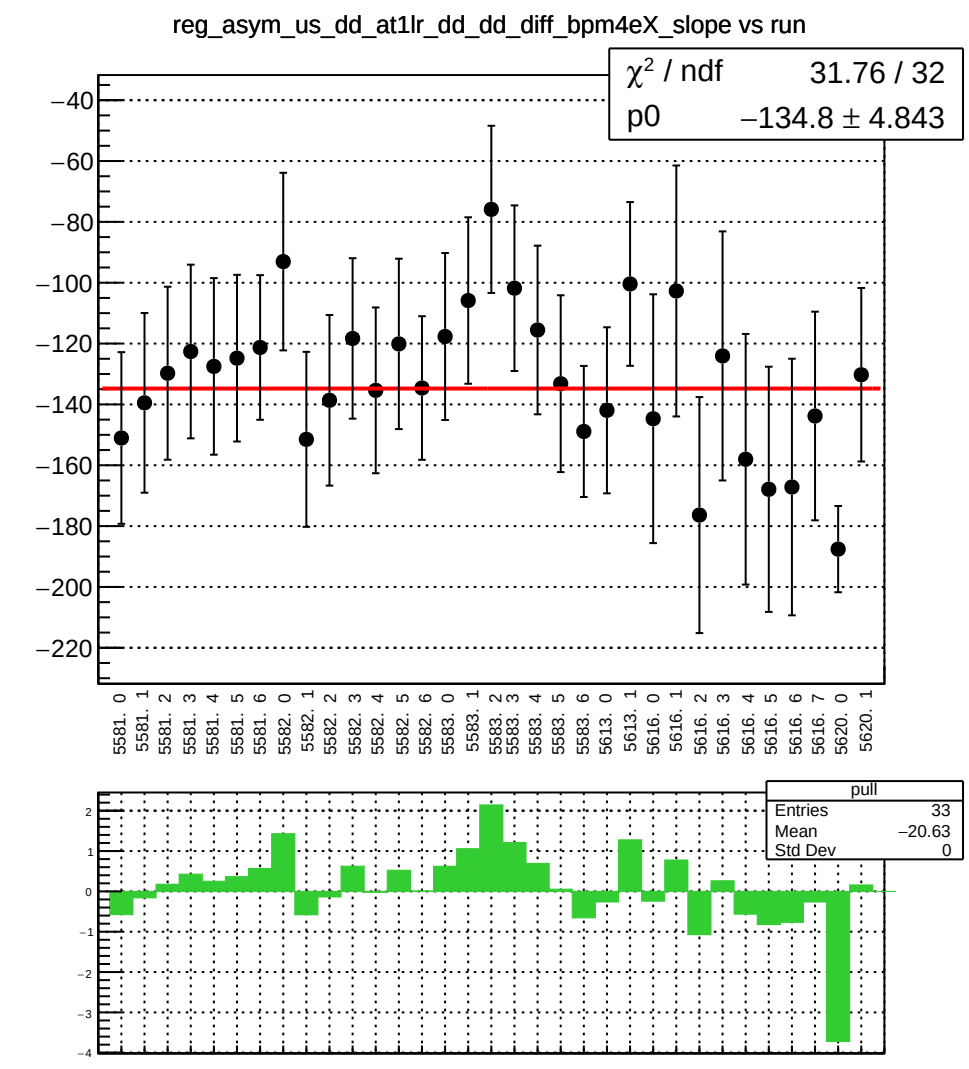

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 35 / 32
p0 12.07 ± 5.586
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −8.913
Std Dev 0
3
2
1
0
−1
pull1D
Entries 33
Mean 0.05217
Std Dev 1.029
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

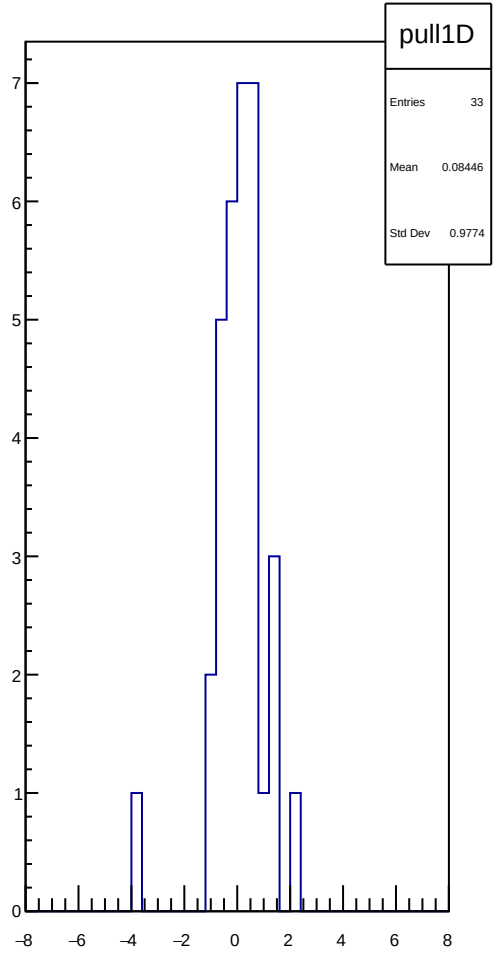

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 2061 / 32
p0 −28.25 ± 0.1971
−15
−20
−25
−30
−35
−40
−45
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −38.38
Std Dev 0
5
0
−5
−10
−15
−20
pull1D
Entries 33
Mean 5.181
Std Dev 1.301
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

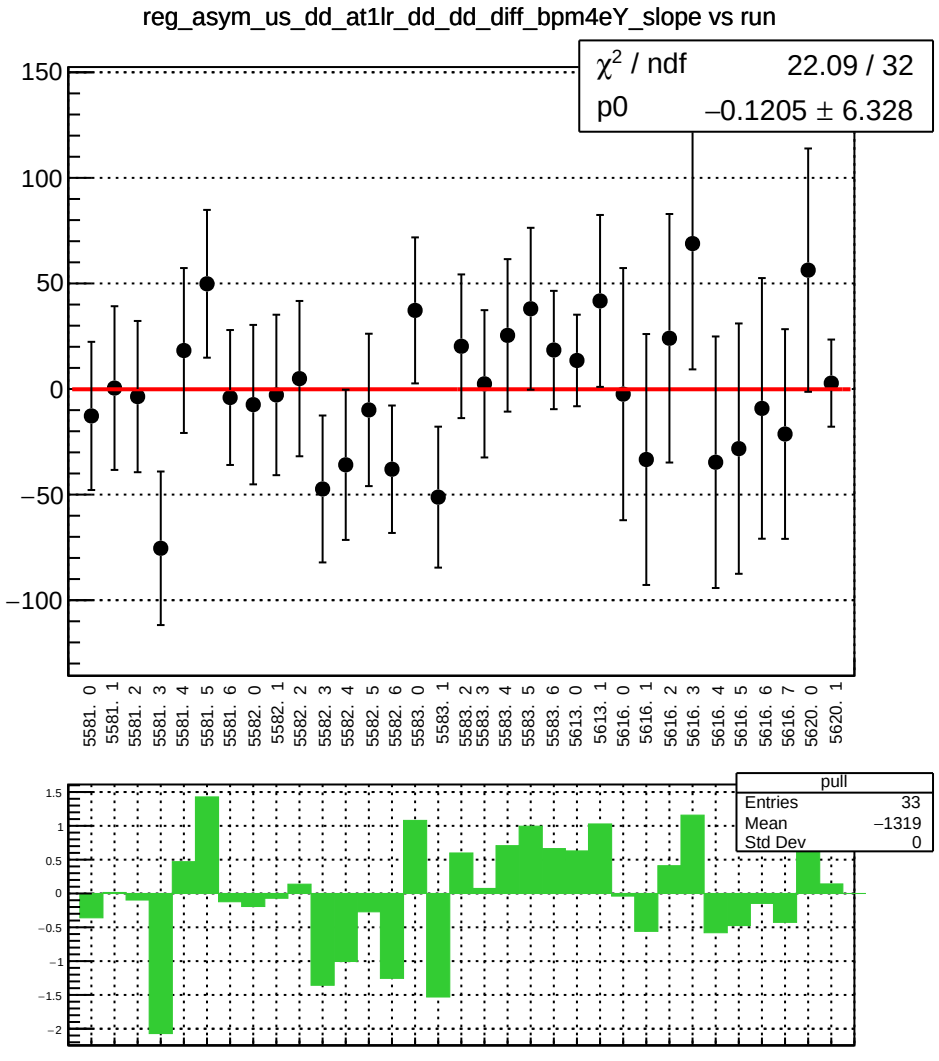

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 36.24 / 32
p0 23.86 ± 5.929
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −14.57
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.1367
Std Dev 1.039
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

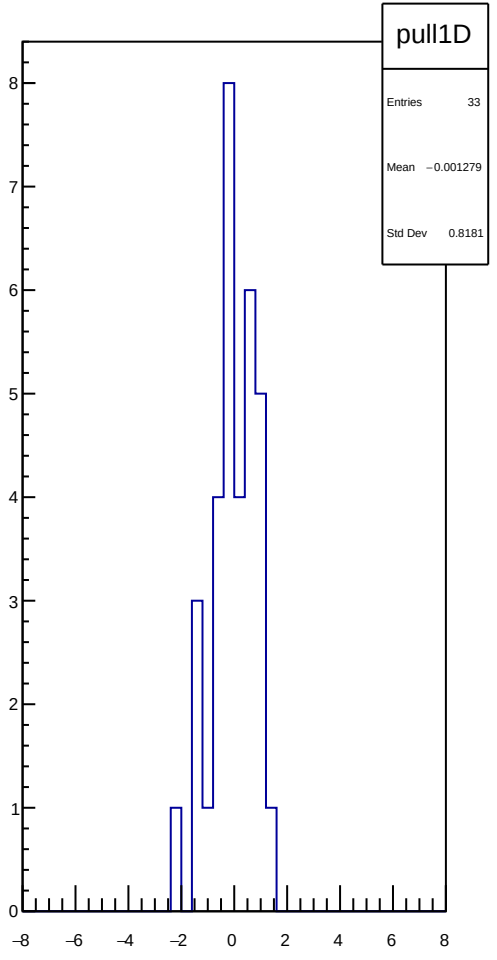

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.38 / 32
p0 −3.468 ± 4.814
pull
Entries 33
Mean 166.1
Std Dev 0

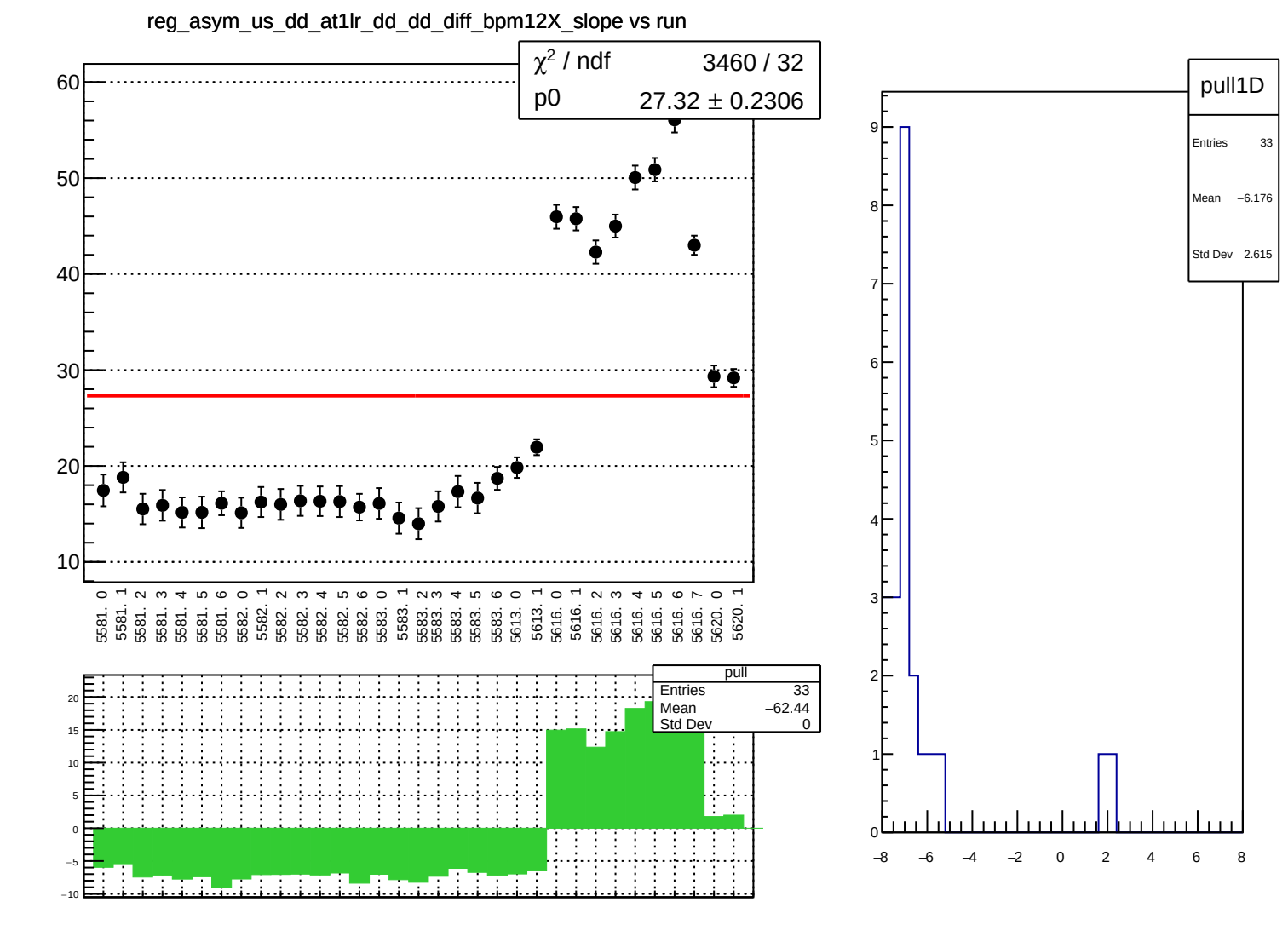

pull1D
Entries 33
Mean −0.01666
Std Dev 0.7856

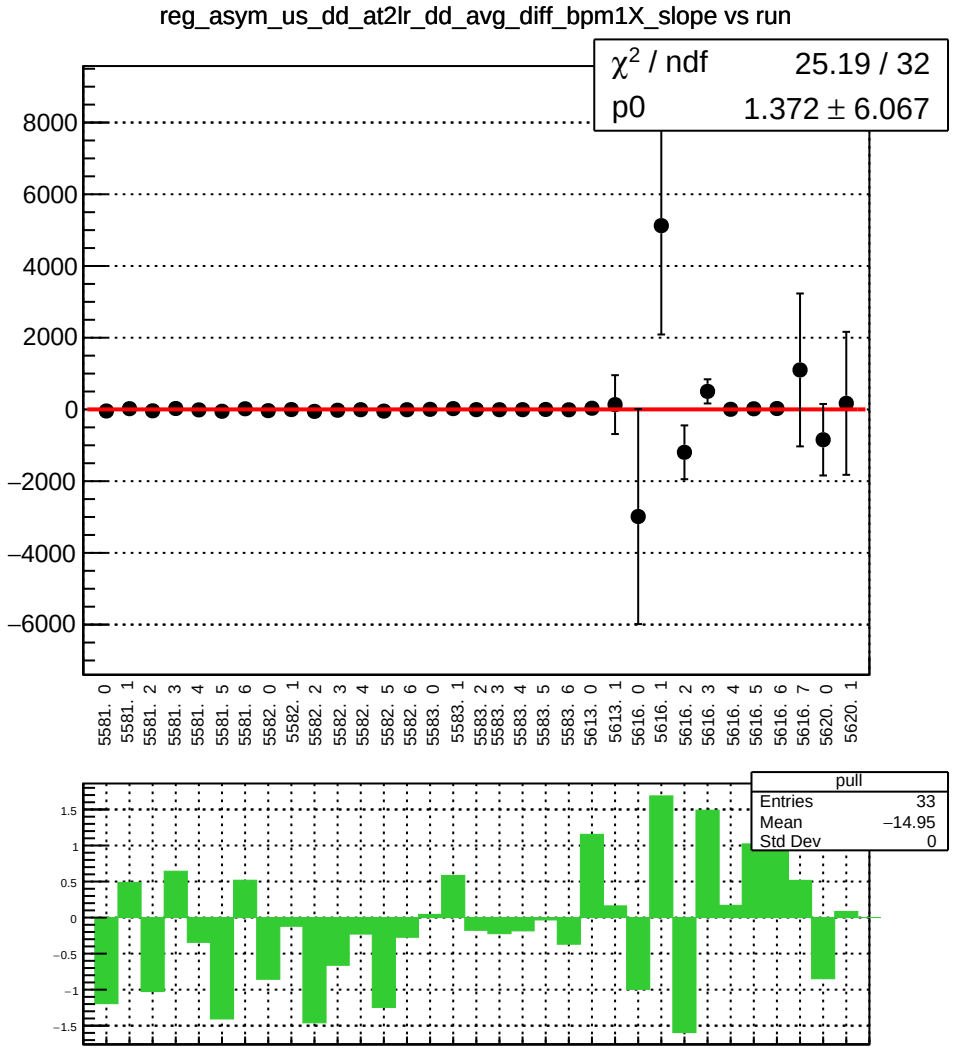

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.76 / 32
p0 −134.8 ± 4.843
pull
Entries 33
Mean −20.63
Std Dev 0

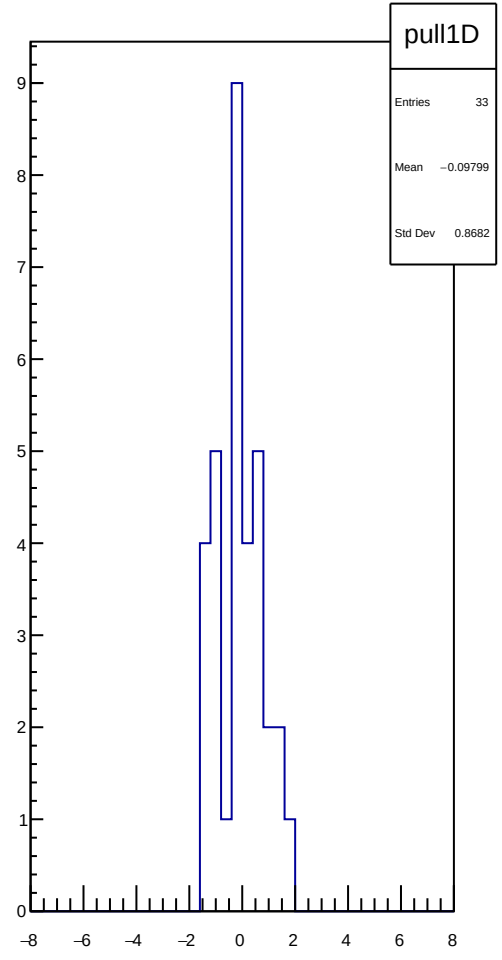

pull1D
Entries 33
Mean 0.08446
Std Dev 0.9774

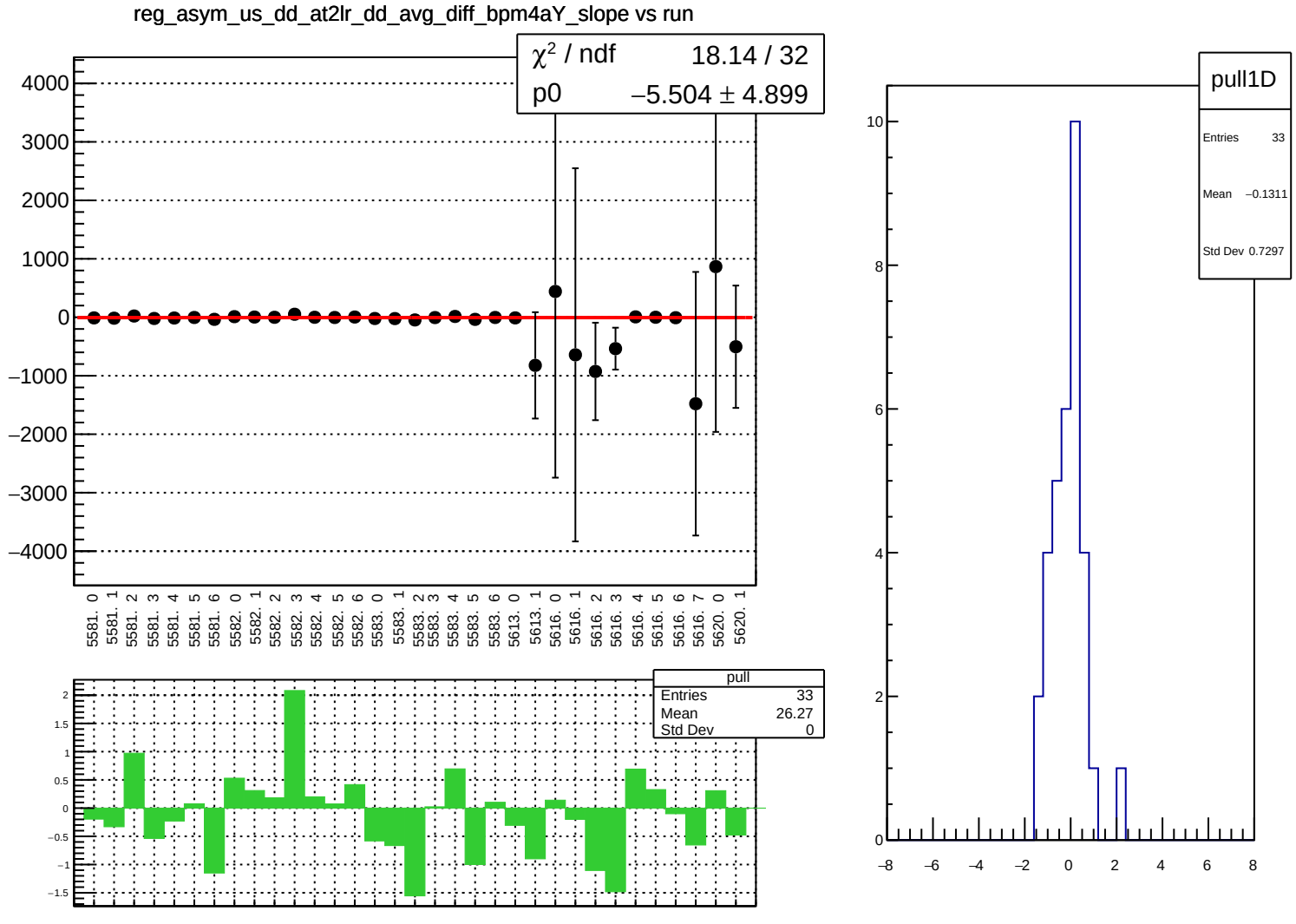

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.09 / 32
p0 −0.1205 ± 6.328
150
100
50
0
−50
−100
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −1319
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

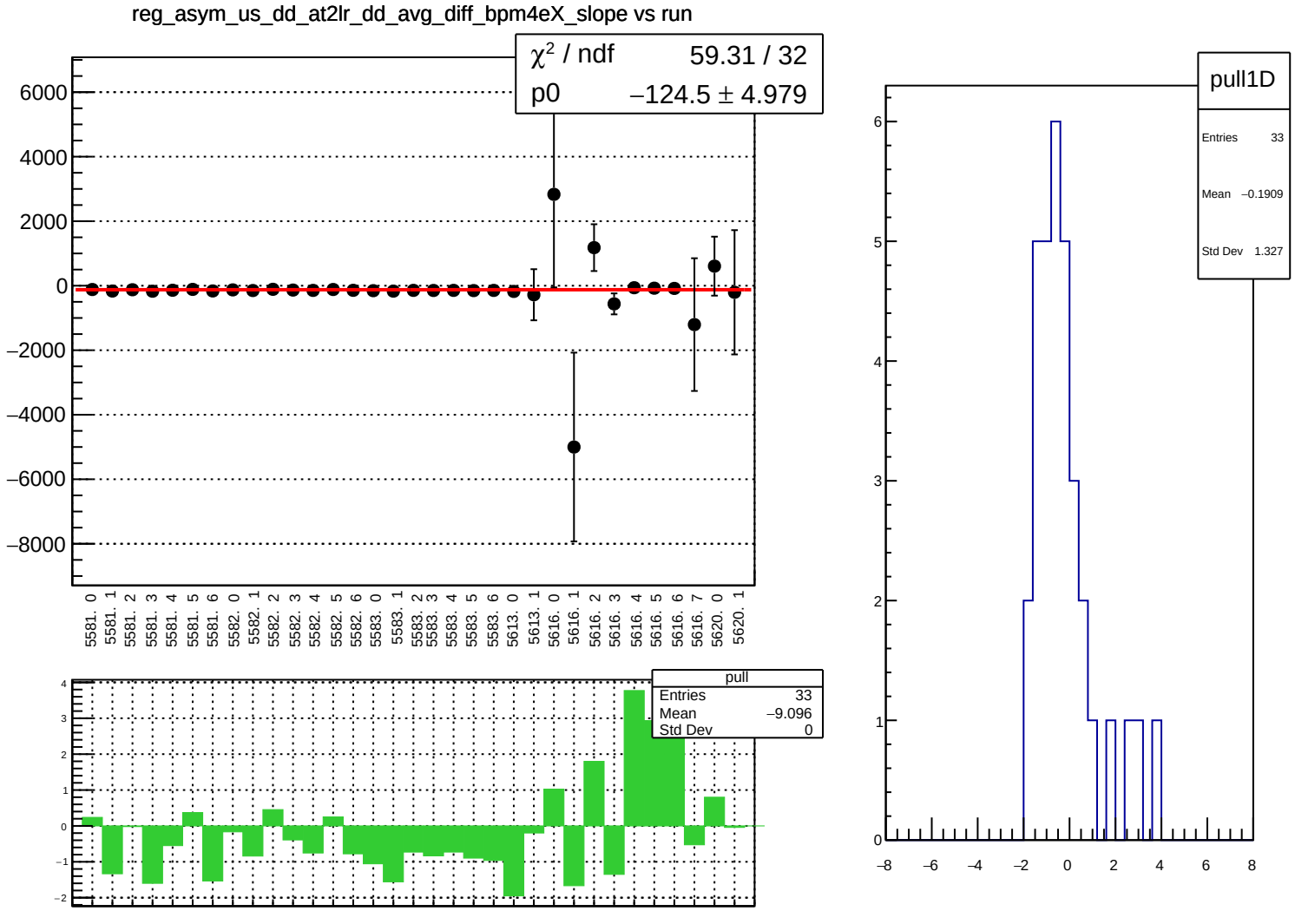

pull1D
Entries 33
Mean −0.001279
Std Dev 0.8181
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

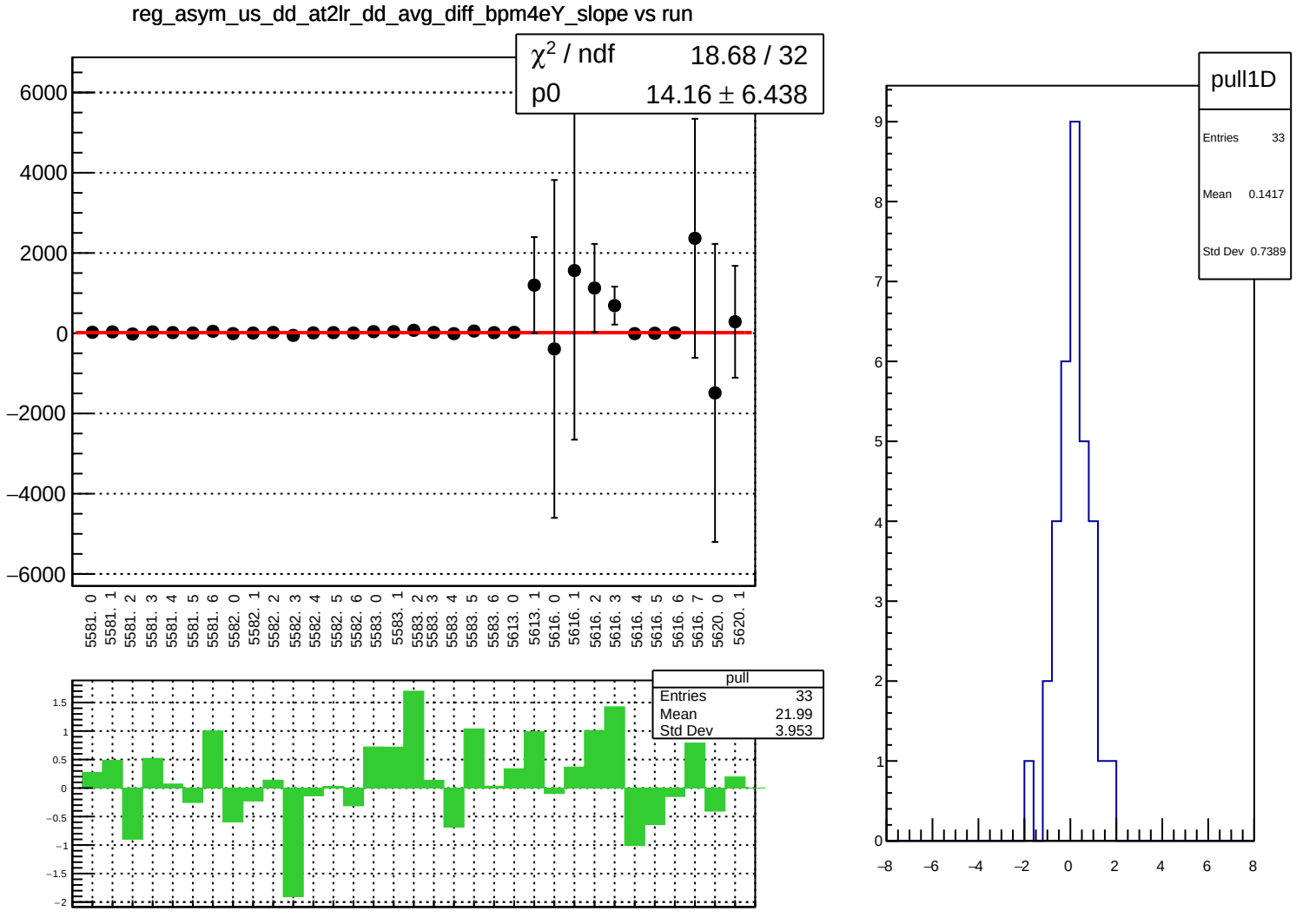

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 3460 / 32
p0 27.32 ± 0.2306
pull
Entries 33
Mean −62.44
Std Dev 0
pull1D
Entries 33
Mean −6.176
Std Dev 2.615

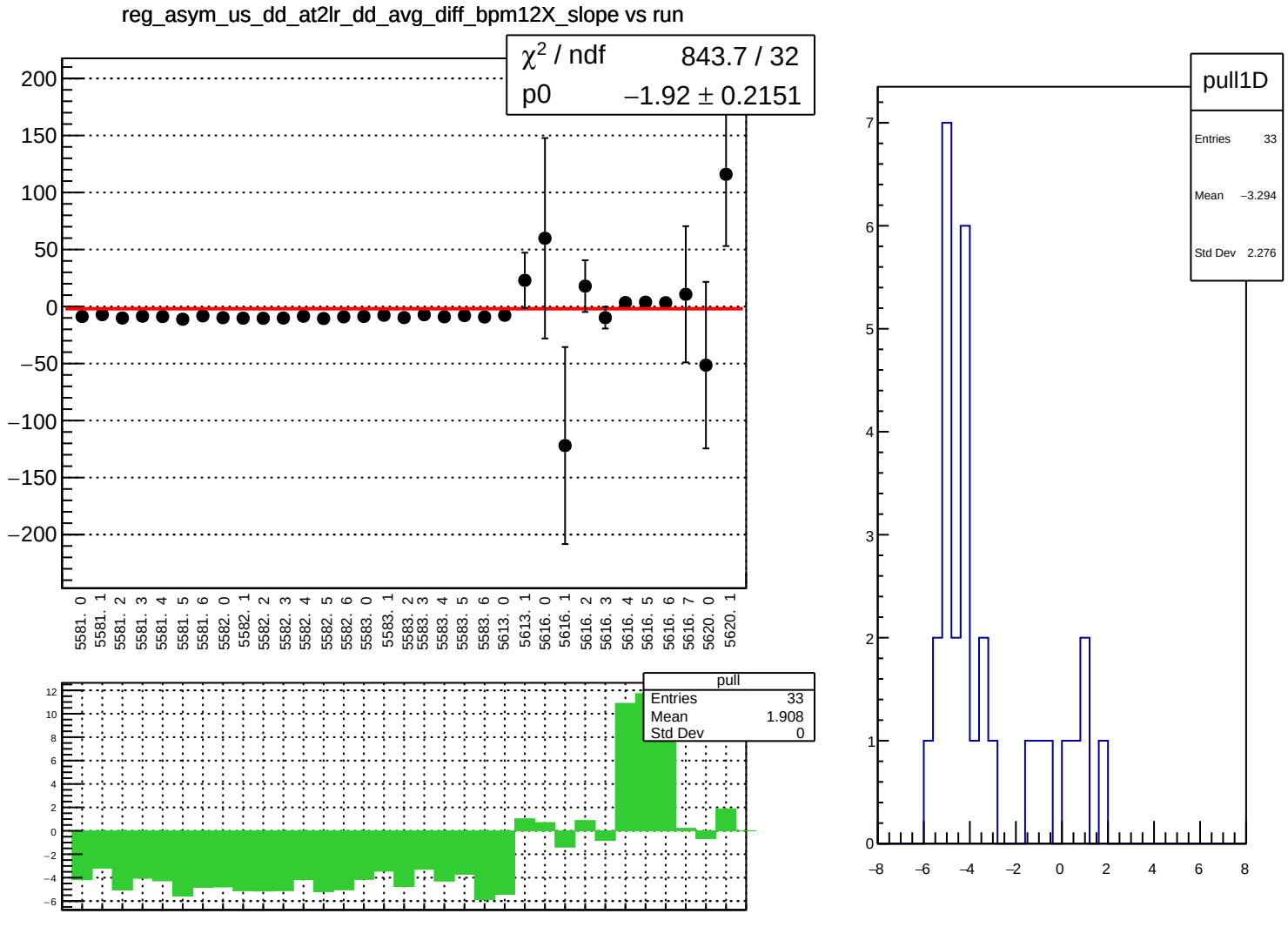

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 25.19 / 32
p0 1.372 ± 6.067
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −14.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

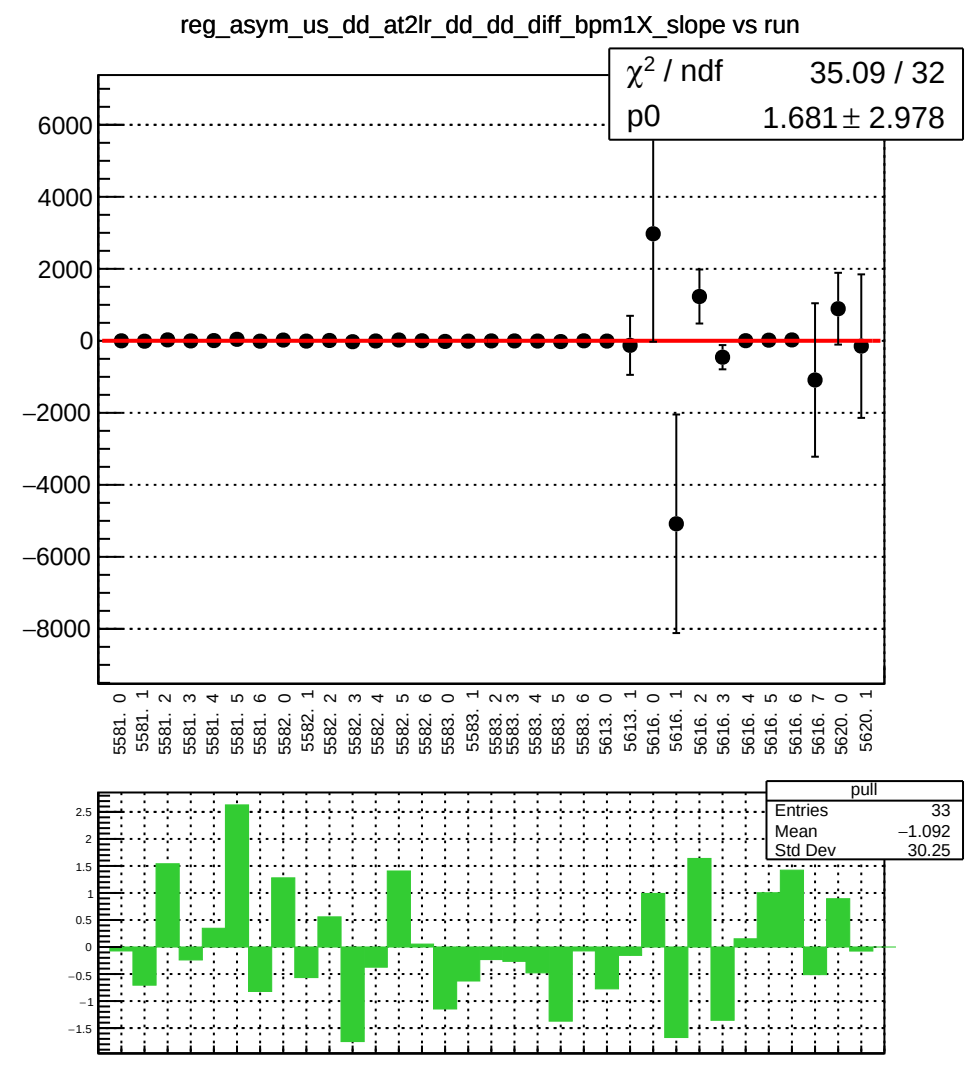

pull1D
Entries 33
Mean −0.09799
Std Dev 0.8682
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

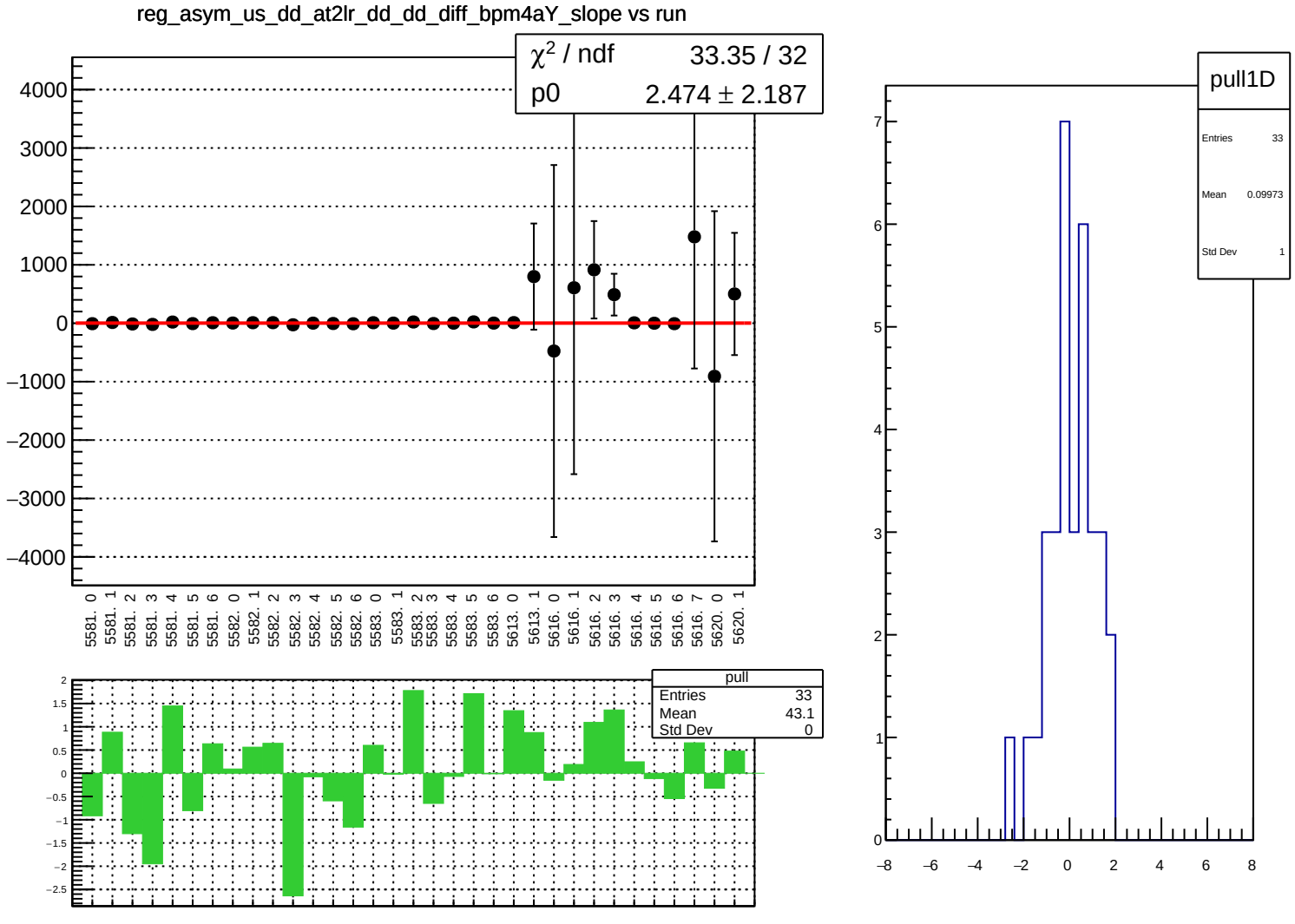

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.14 / 32
p0 −5.504 ± 4.899
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 26.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1311
Std Dev 0.7297
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

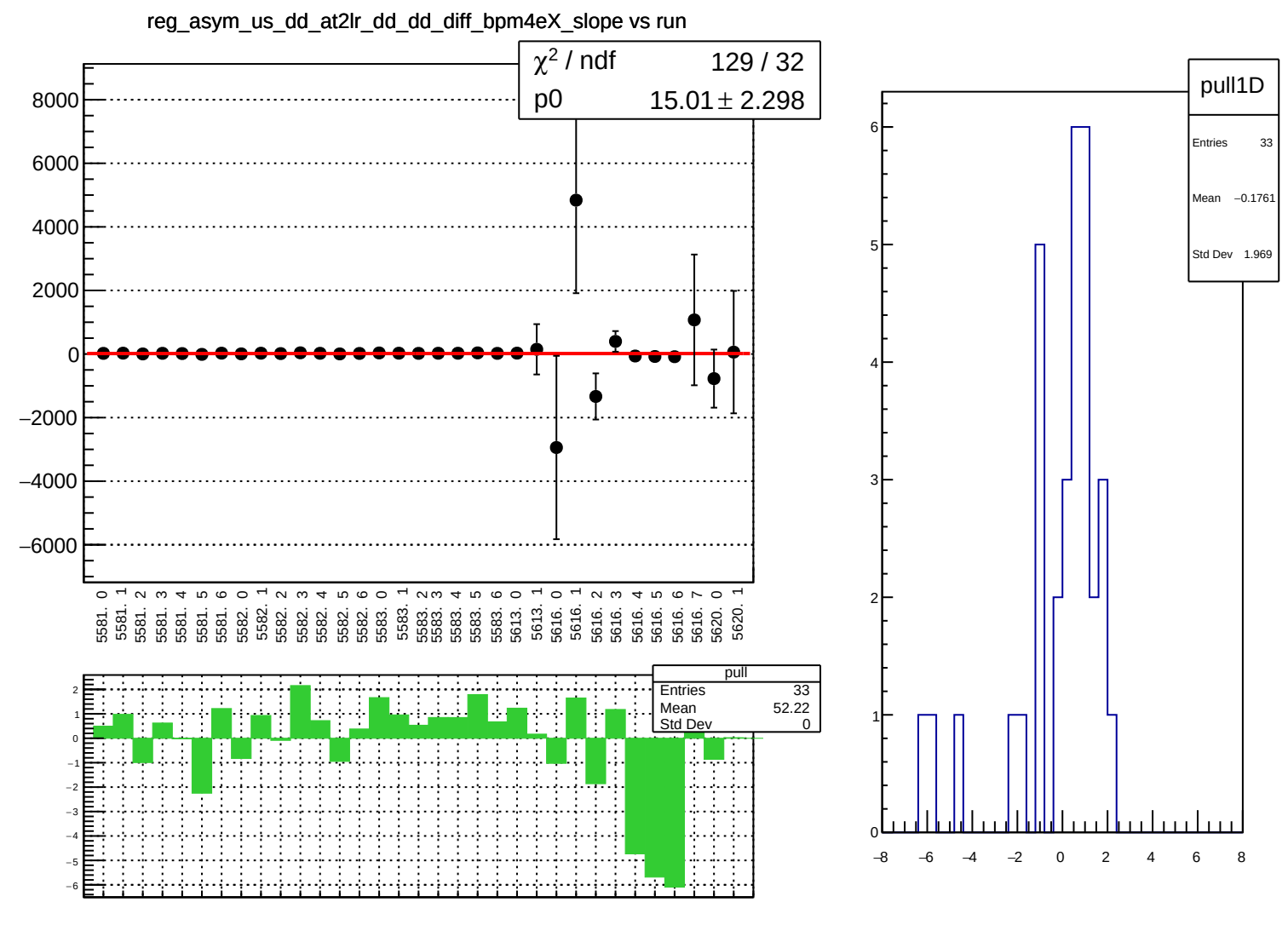

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 59.31 / 32
p0 −124.5 ± 4.979
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −9.096
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.1909
Std Dev 1.327
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

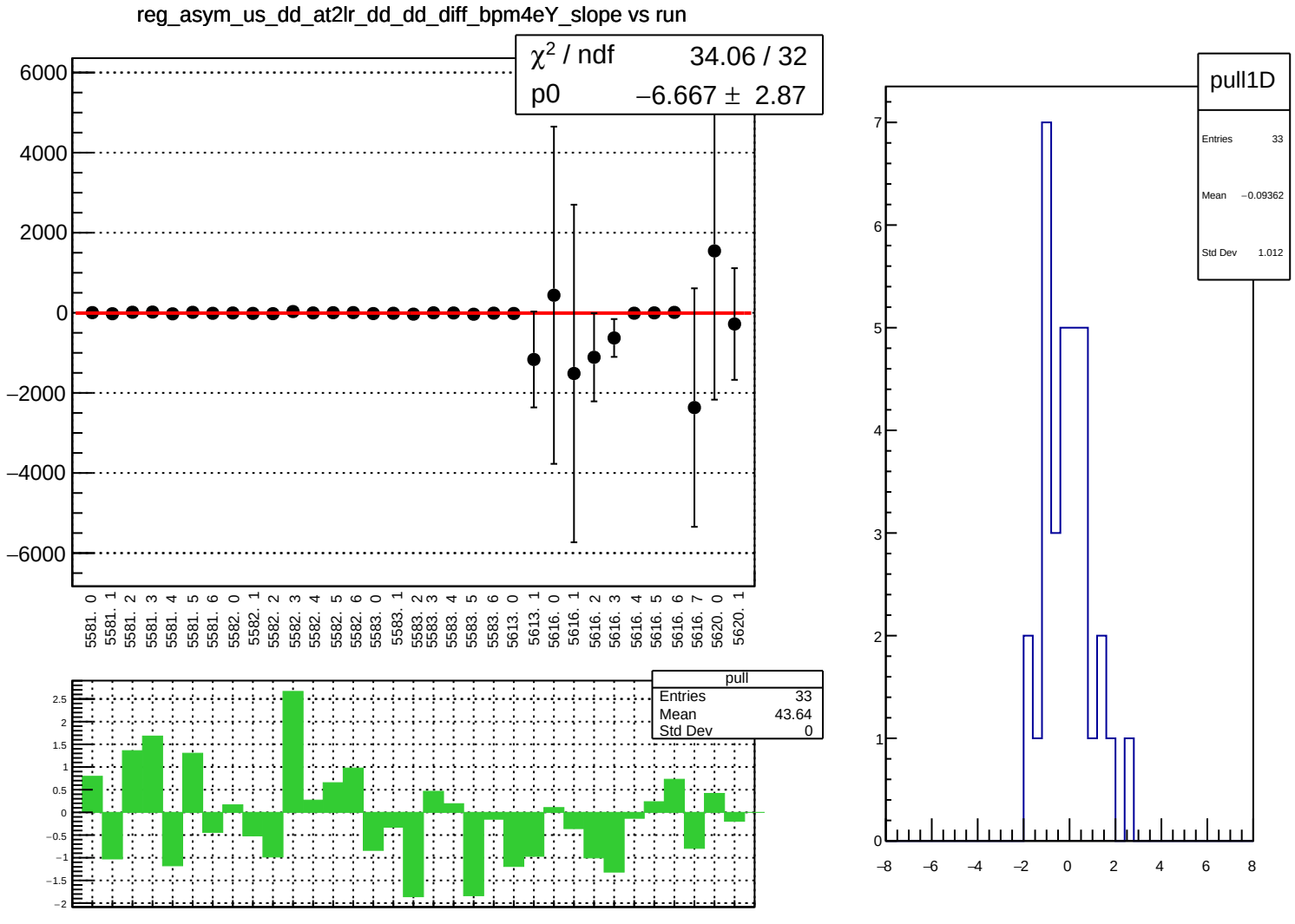

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.68 / 32
p0 14.16 ± 6.438
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.99
Std Dev 3.953
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.1417
Std Dev 0.7389
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

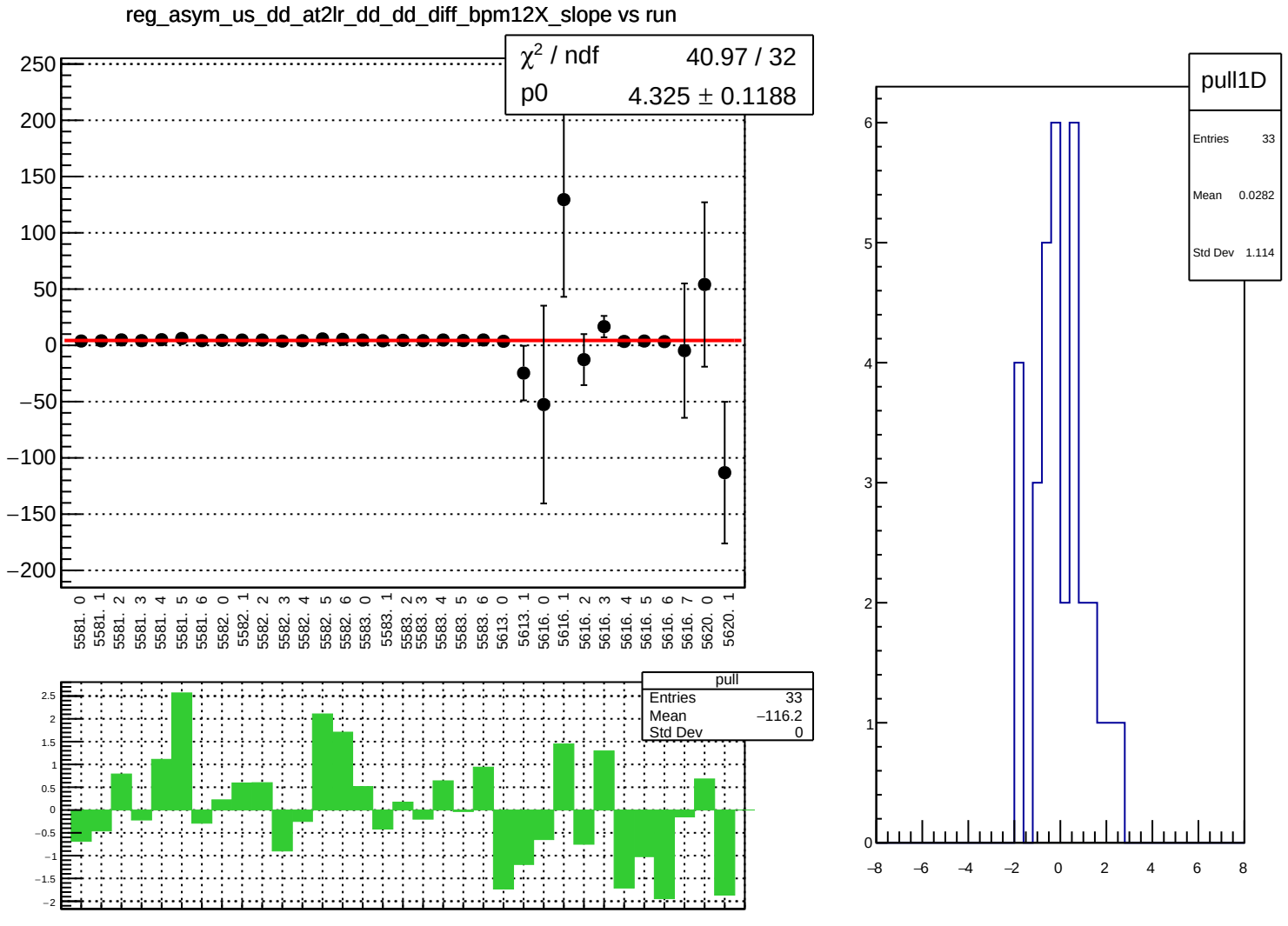

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 843.7 / 32
p0 −1.92 ± 0.2151
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 1.908
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 33
Mean −3.294
Std Dev 2.276
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

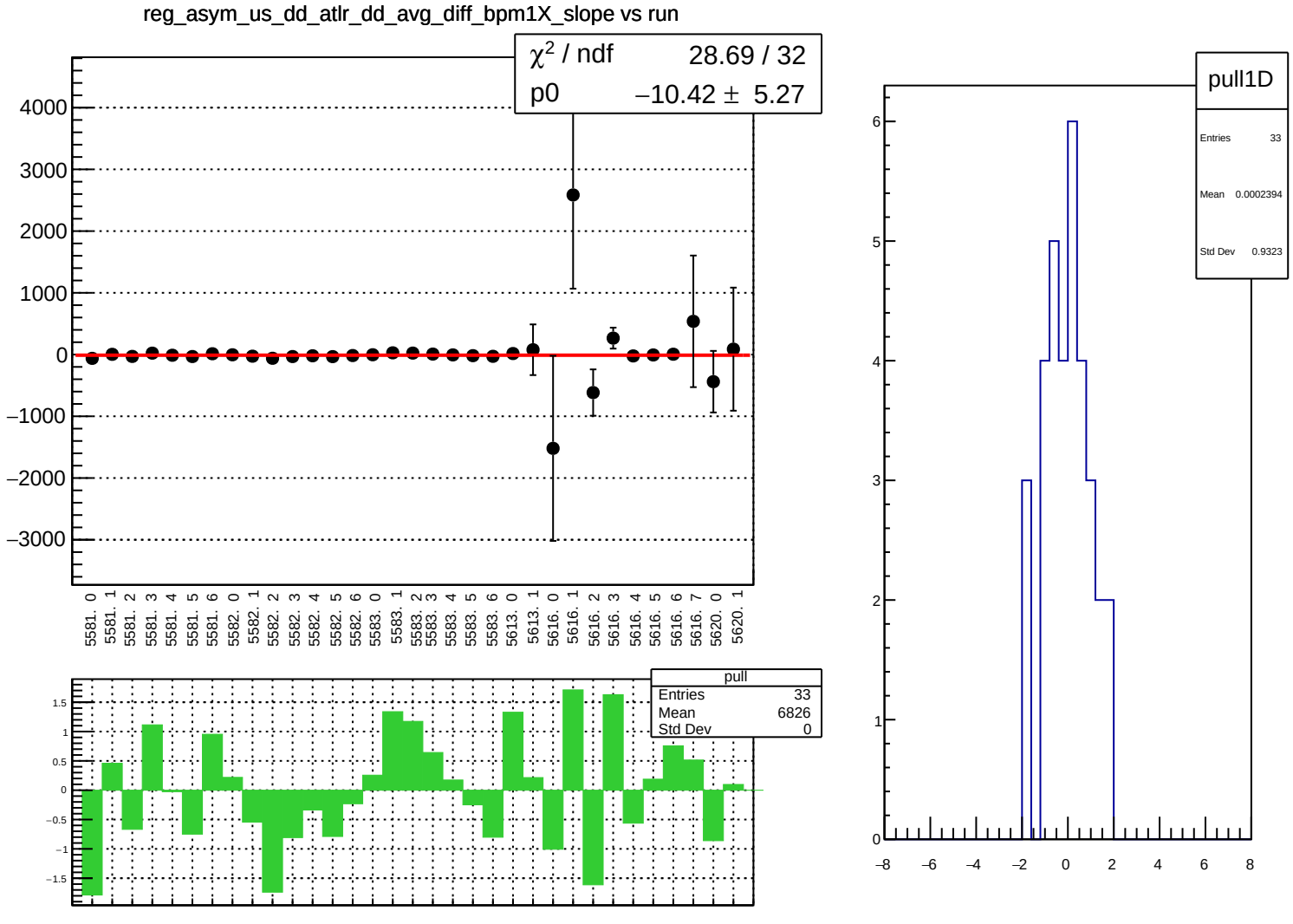

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 35.09 / 32
p0 1.681 ± 2.978
6000
4000
2000
0
−2000
−4000
−6000
−8000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −1.092
Std Dev 30.25
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.01963
Std Dev 1.031
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

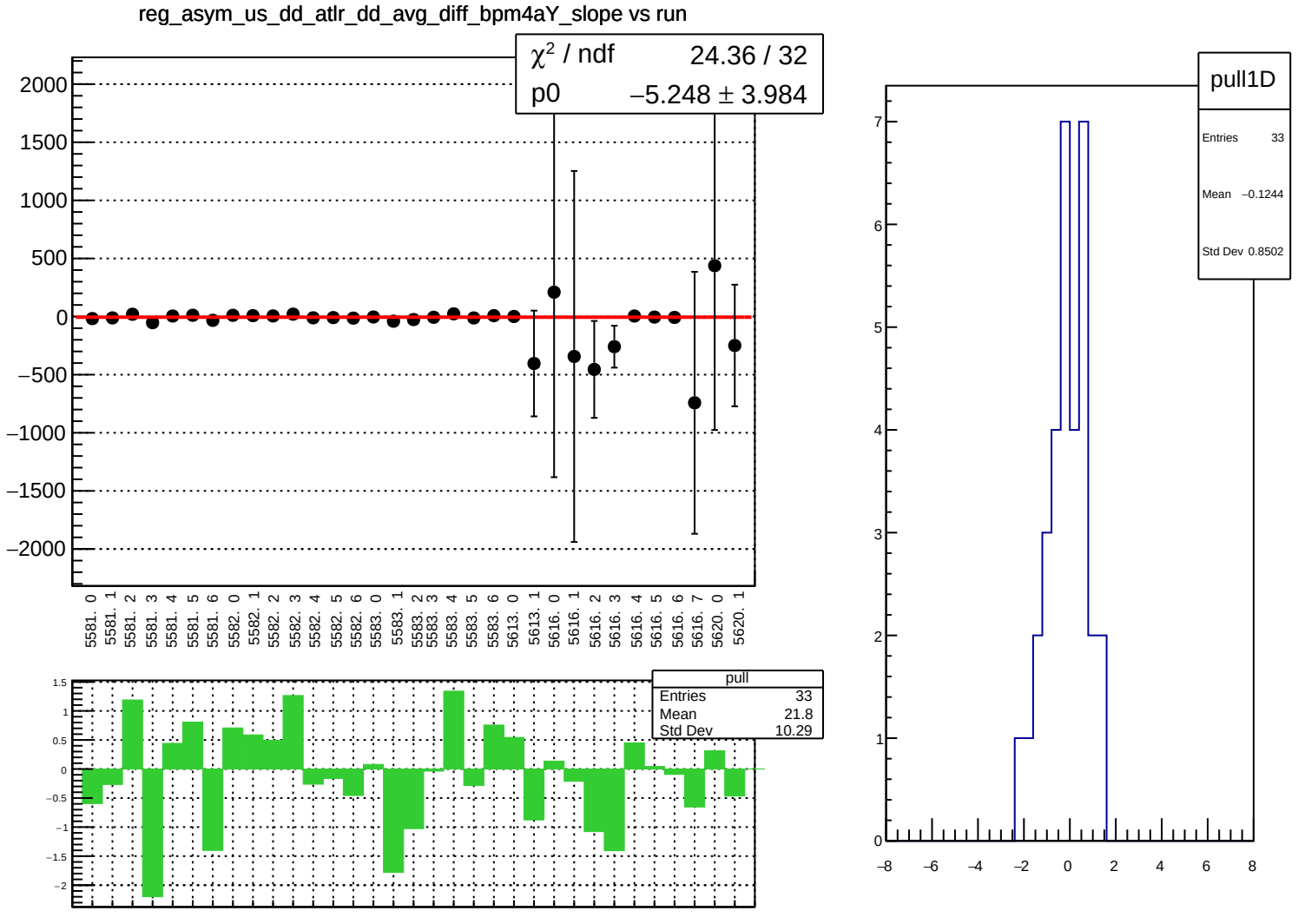

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.35 / 32
p0 2.474 ± 2.187
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 43.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 33
Mean 0.09973
Std Dev 1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

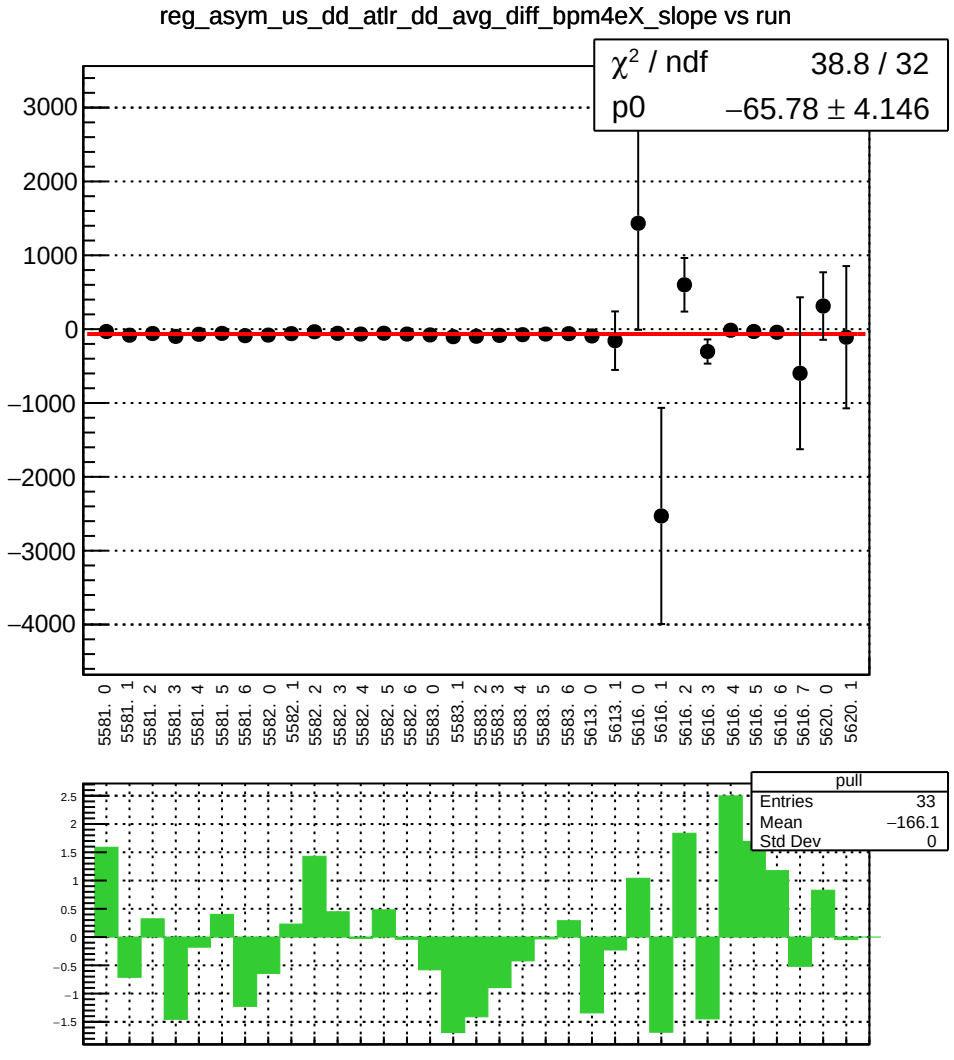

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 129 / 32
p0 15.01 ± 2.298
8000
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 52.22
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 33
Mean −0.1761
Std Dev 1.969
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

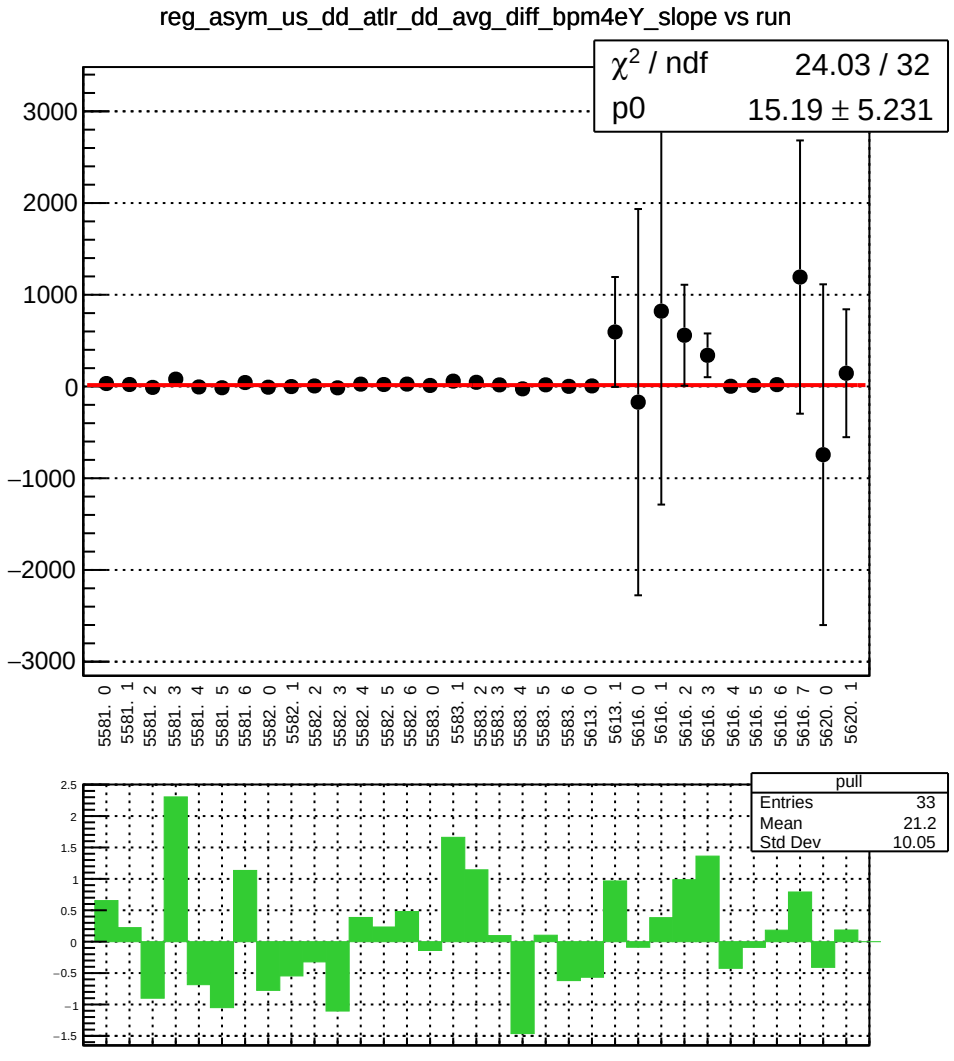

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.06 / 32
p0 −6.667 ± 2.87
6000
4000
2000
0
−2000
−4000
−6000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 43.64
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.09362
Std Dev 1.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

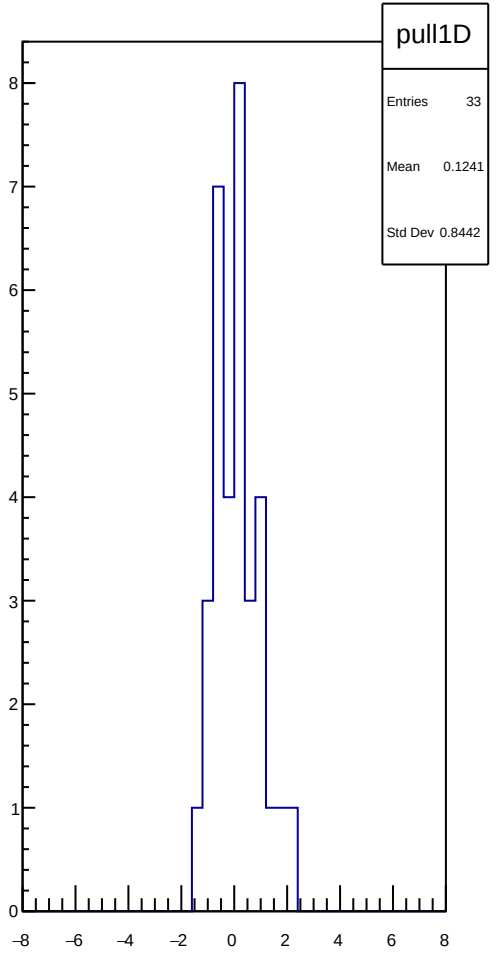

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 40.97 / 32
p0 4.325 ± 0.1188
250
200
150
100
50
0
−50
−100
−150
−200
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −116.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.0282
Std Dev 1.114
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

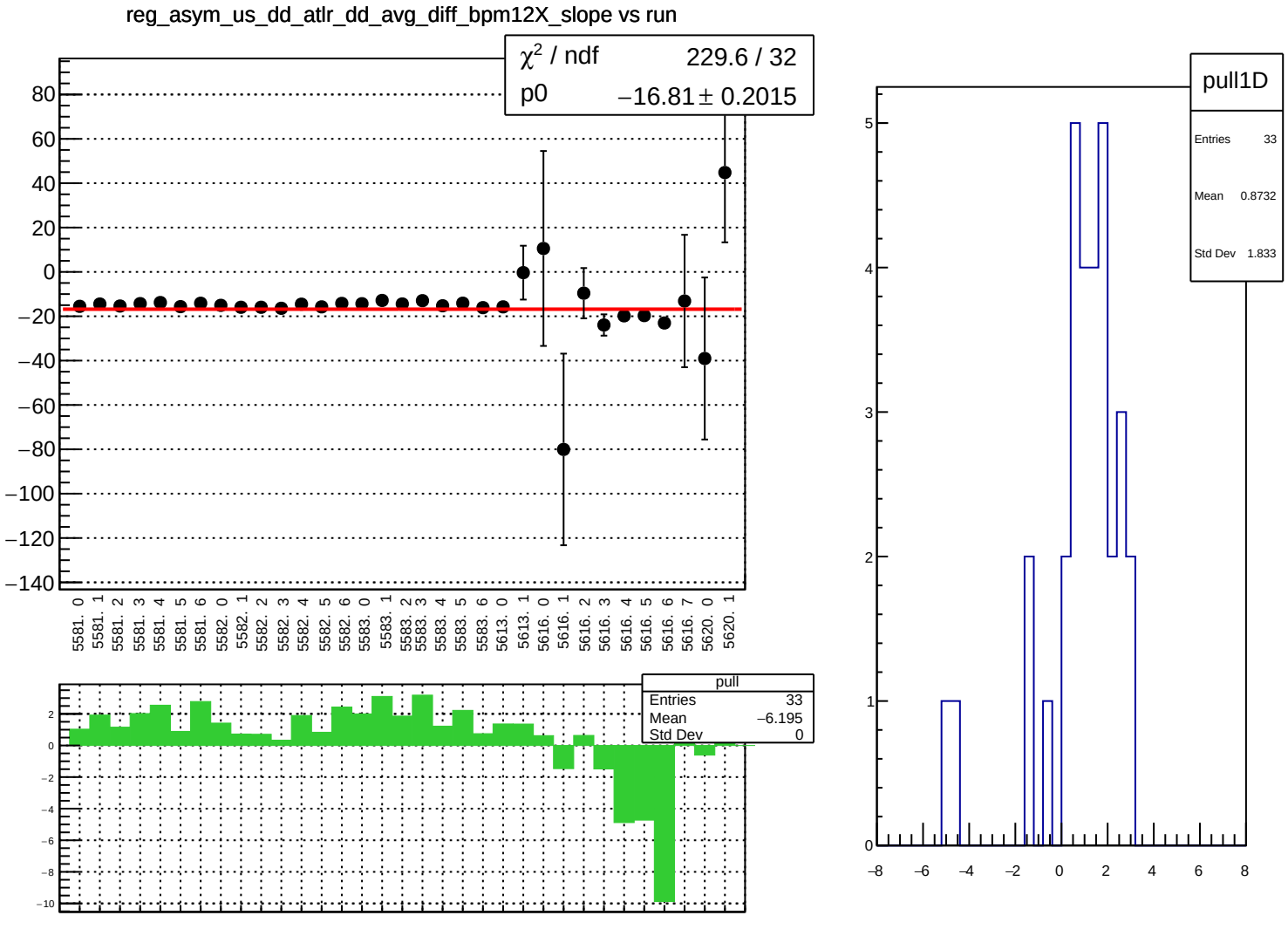

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 28.69 / 32
p0 −10.42 ± 5.27
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 6826
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.0002394
Std Dev 0.9323
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

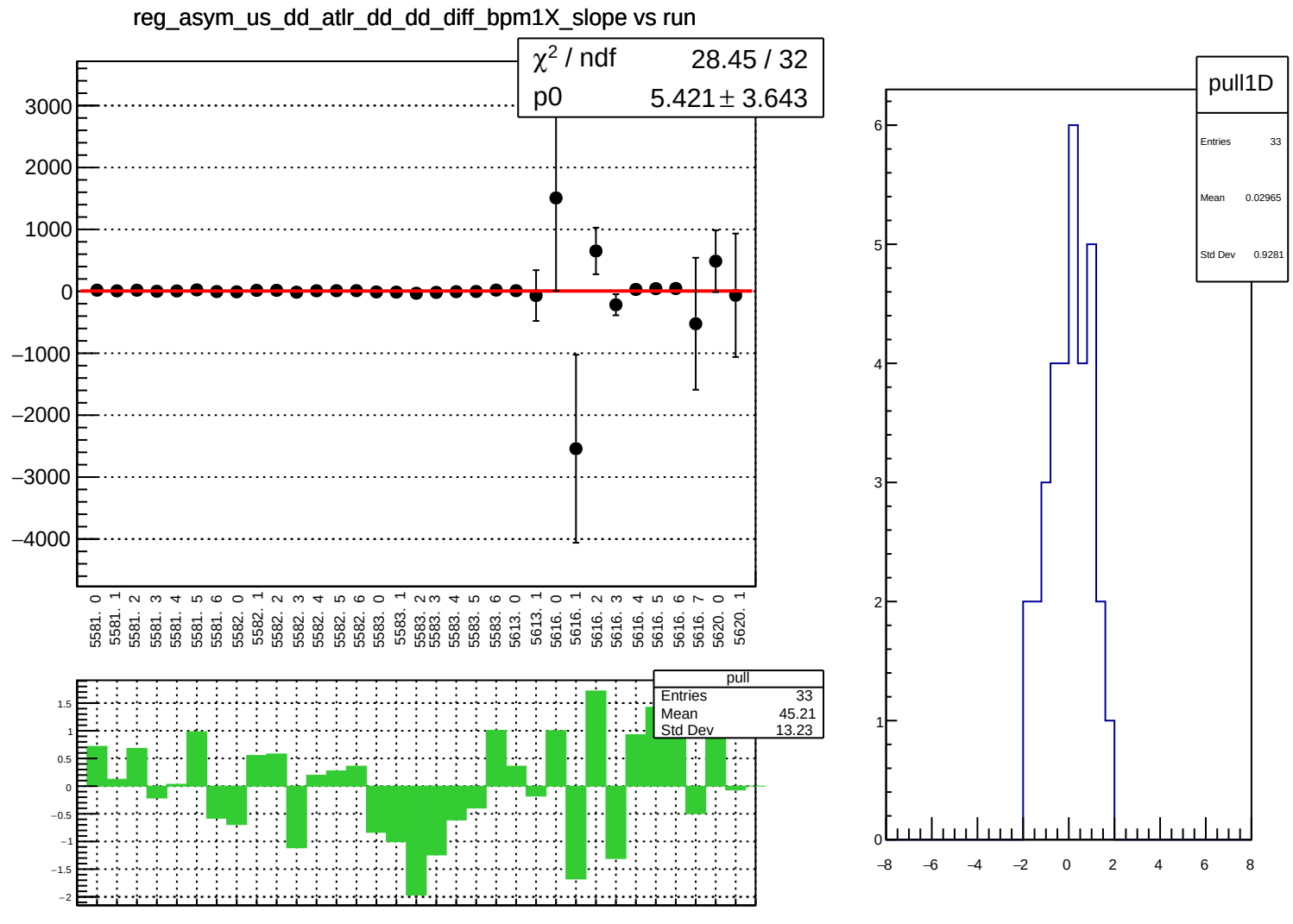

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.36 / 32
p0 −5.248 ± 3.984
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.8
Std Dev 10.29
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1244
Std Dev 0.8502
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

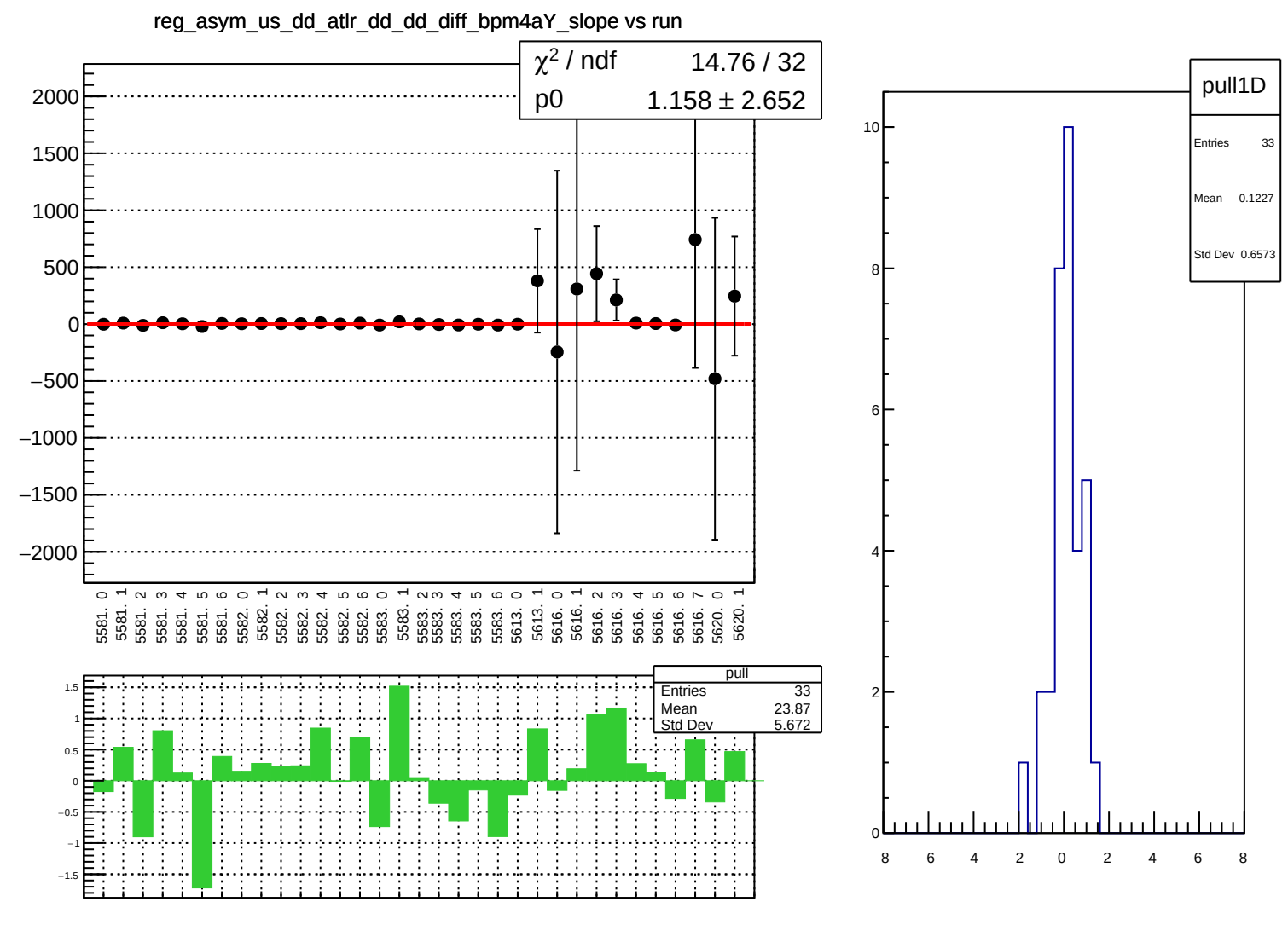

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.8 / 32
p0 −65.78 ± 4.146
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −166.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.009408
Std Dev 1.084
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

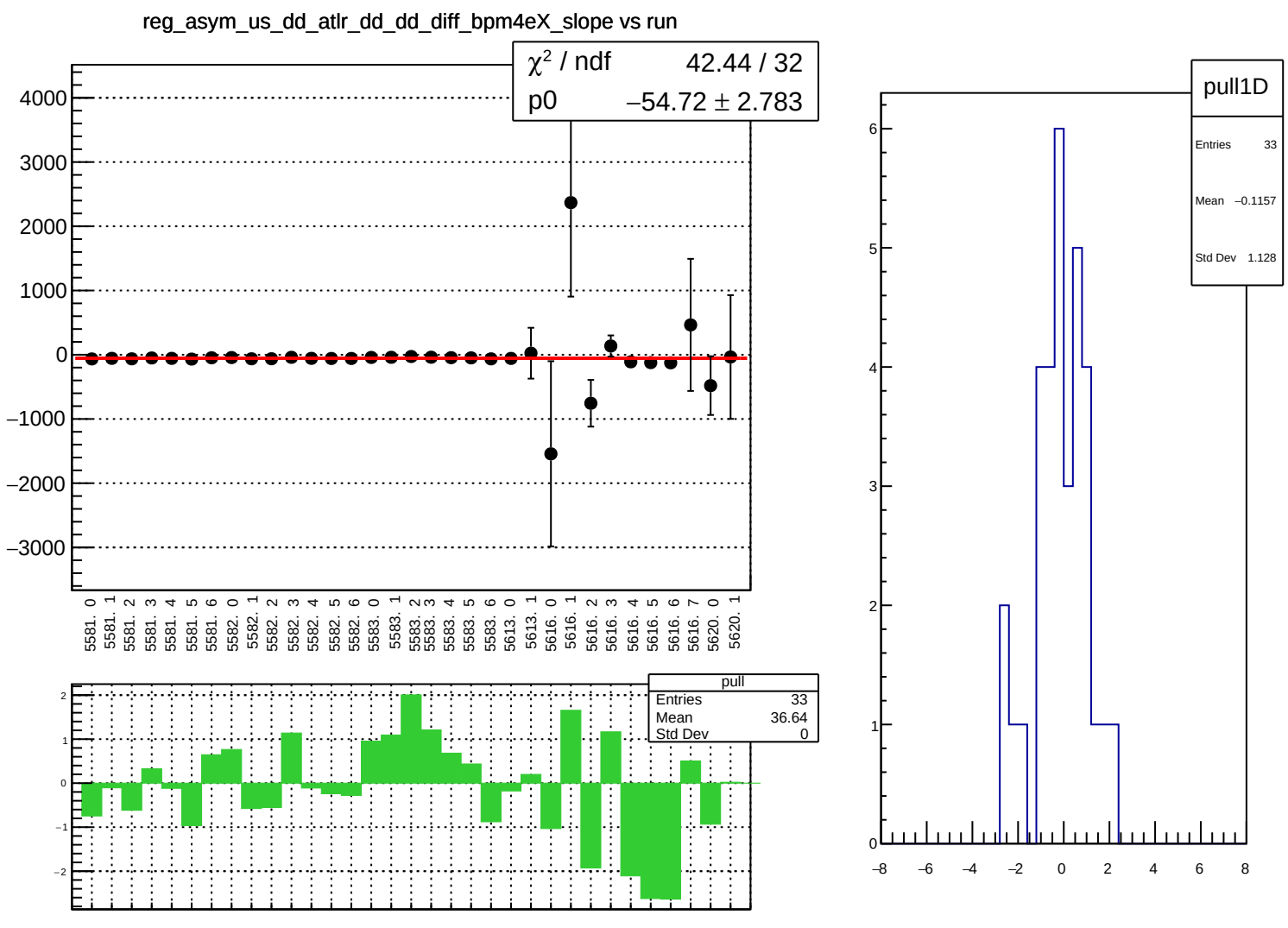

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.03 / 32
p0 15.19 ± 5.231
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 21.2
Std Dev 10.05
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

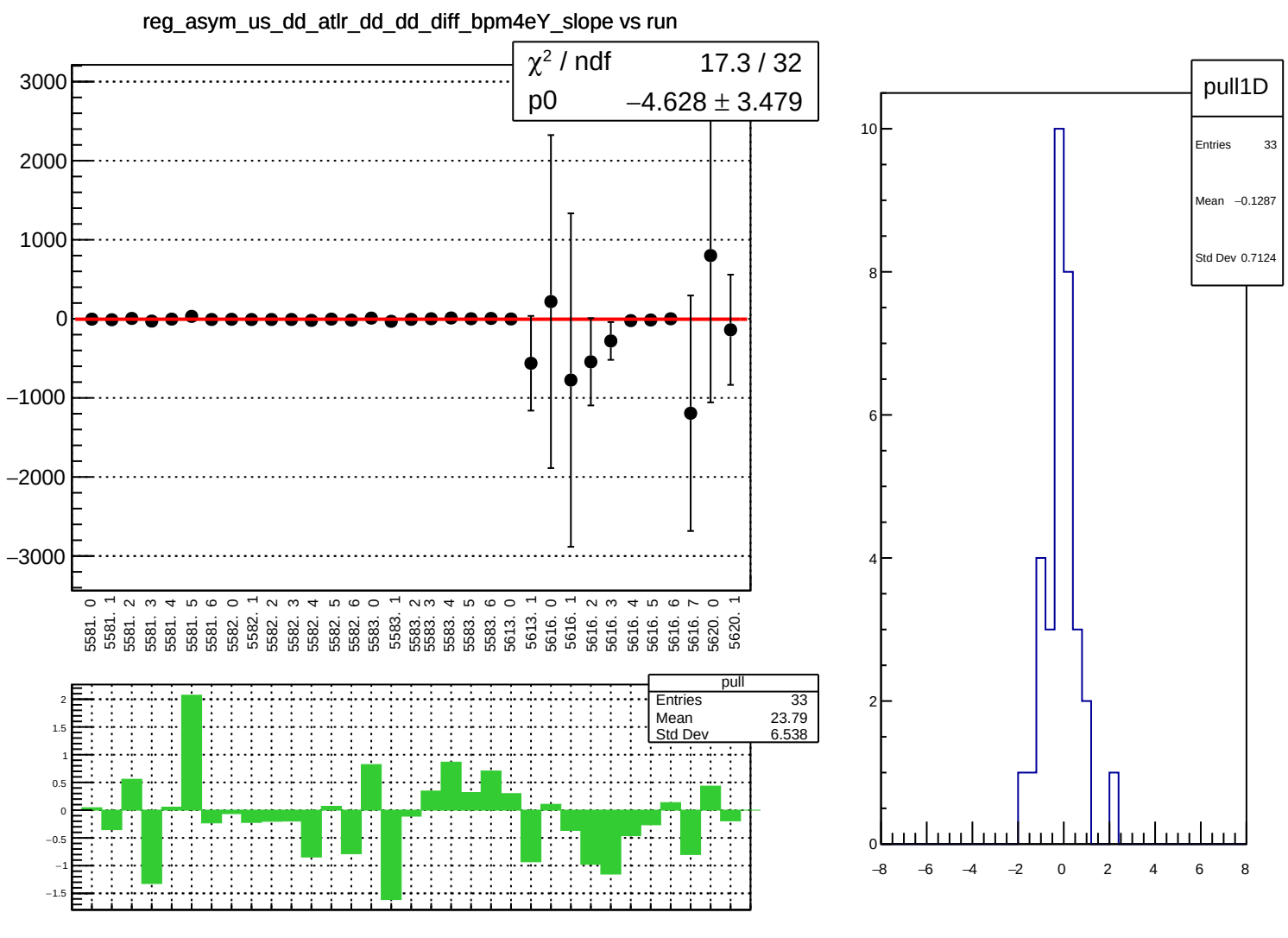

pull1D
Entries 33
Mean 0.1241
Std Dev 0.8442
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

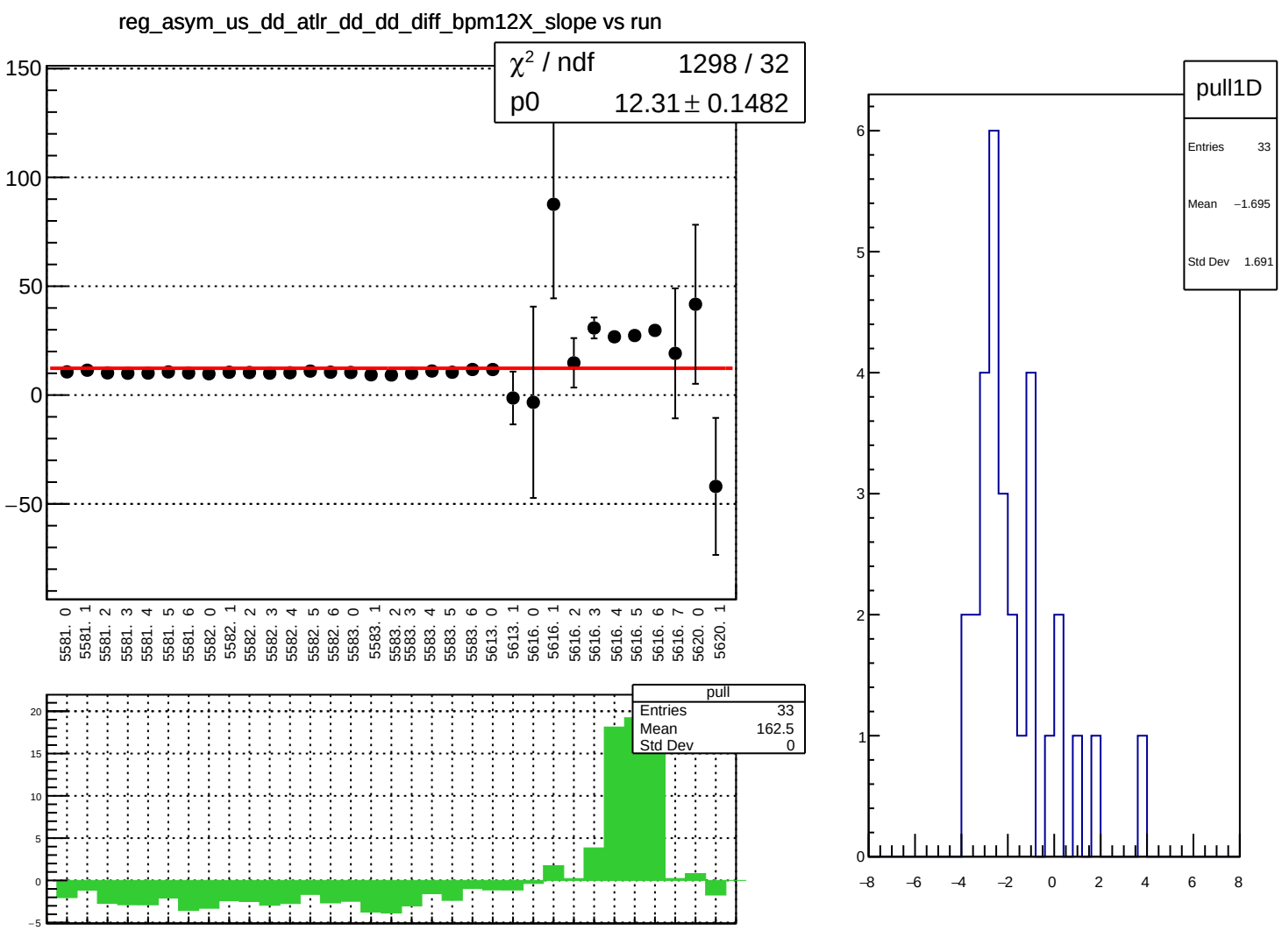

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 229.6 / 32
p0 −16.81 ± 0.2015
pull
Entries 33
Mean −6.195
Std Dev 0
pull1D
Entries 33
Mean 0.8732
Std Dev 1.833

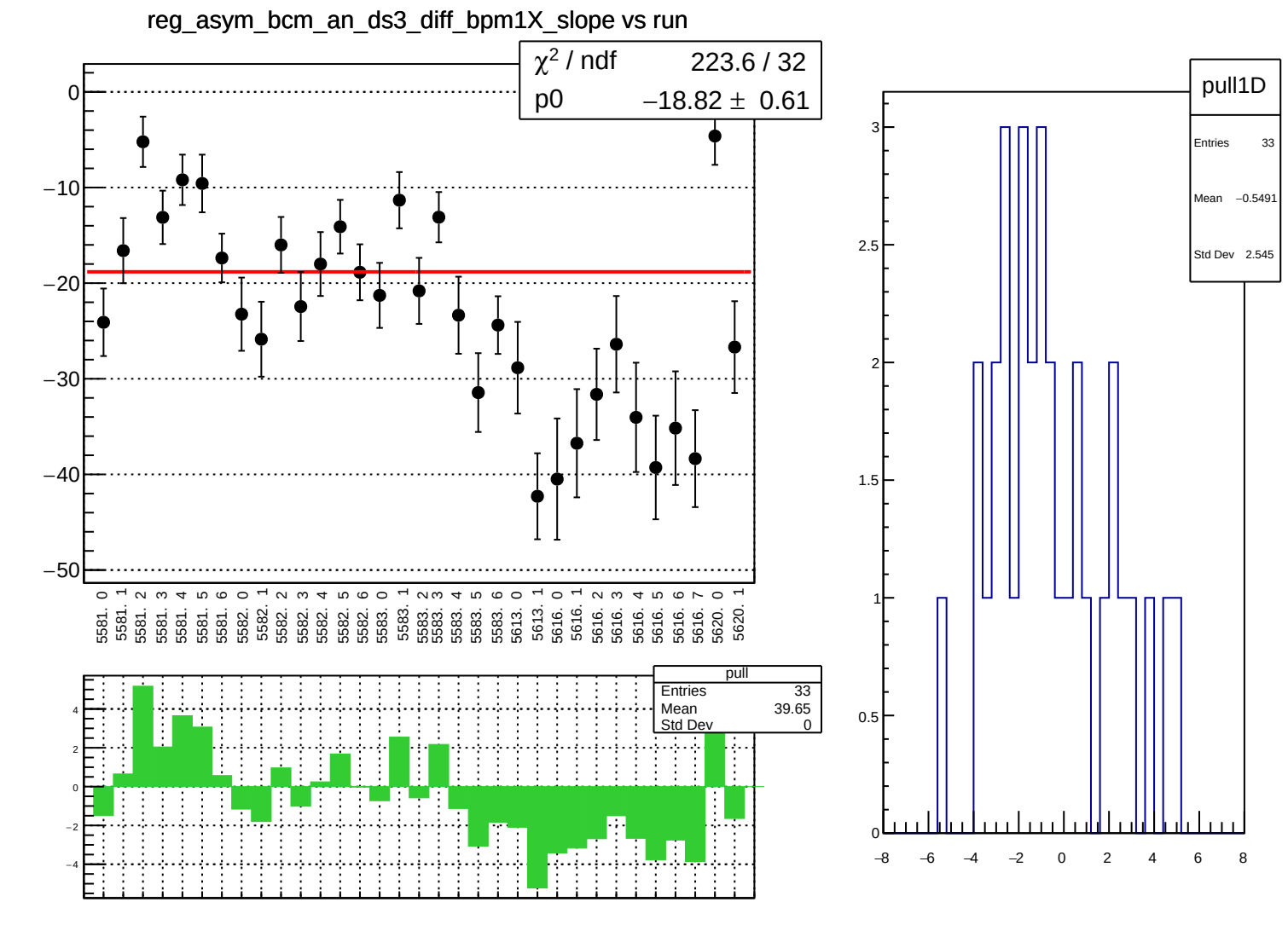

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 28.45 / 32
p0 5.421 ± 3.643
3000
2000
1000
0
−1000
−2000
−3000
−4000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 45.21
Std Dev 13.23
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean 0.02965
Std Dev 0.9281
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

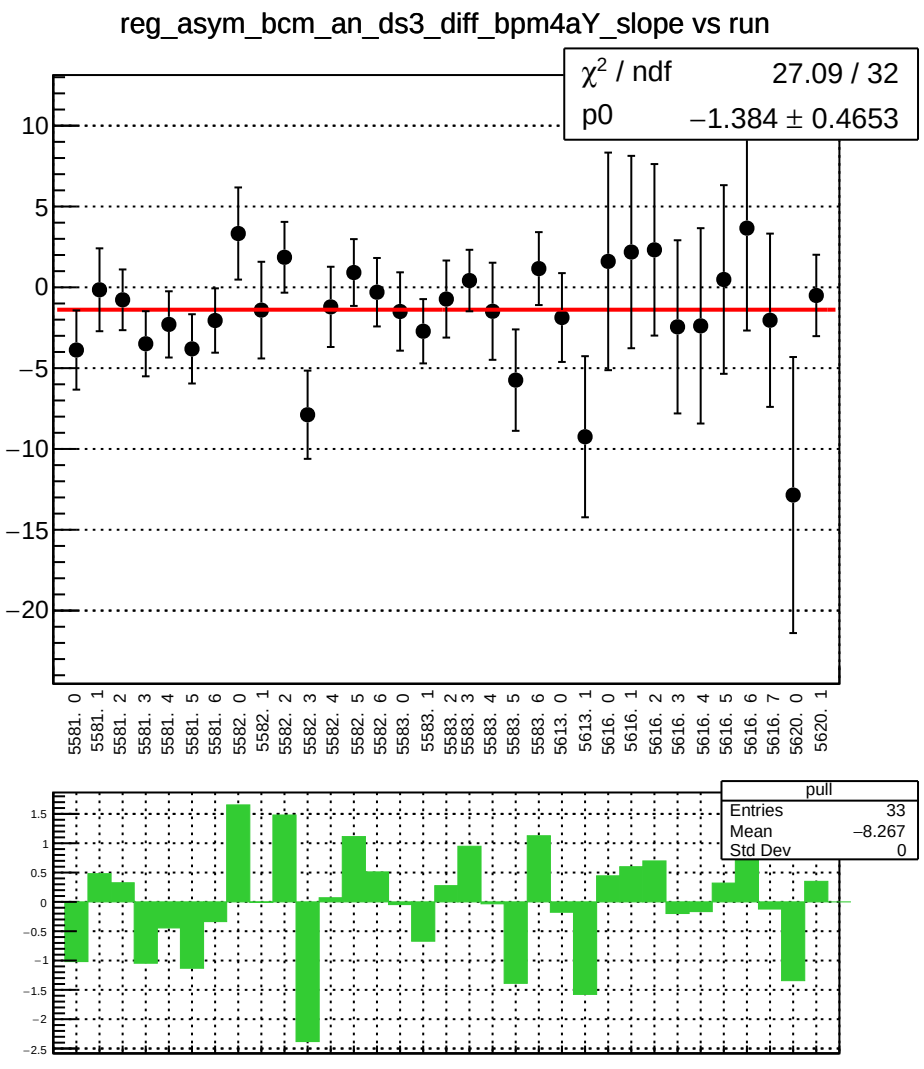

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.76 / 32
p0 1.158 ± 2.652
2000
1500
1000
500
0
−500
−1000
−1500
−2000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.87
Std Dev 5.672
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.1227
Std Dev 0.6573
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

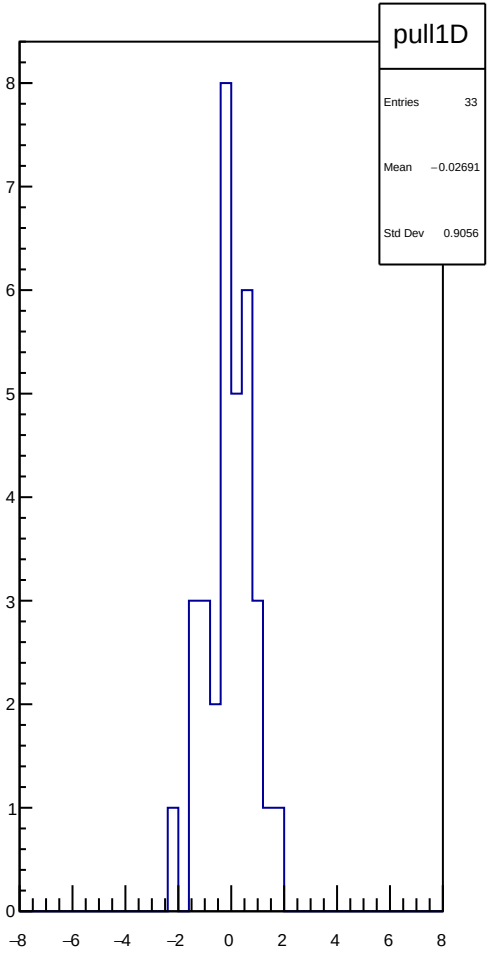

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.44 / 32
p0 −54.72 ± 2.783
4000
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.64
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean −0.1157
Std Dev 1.128
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

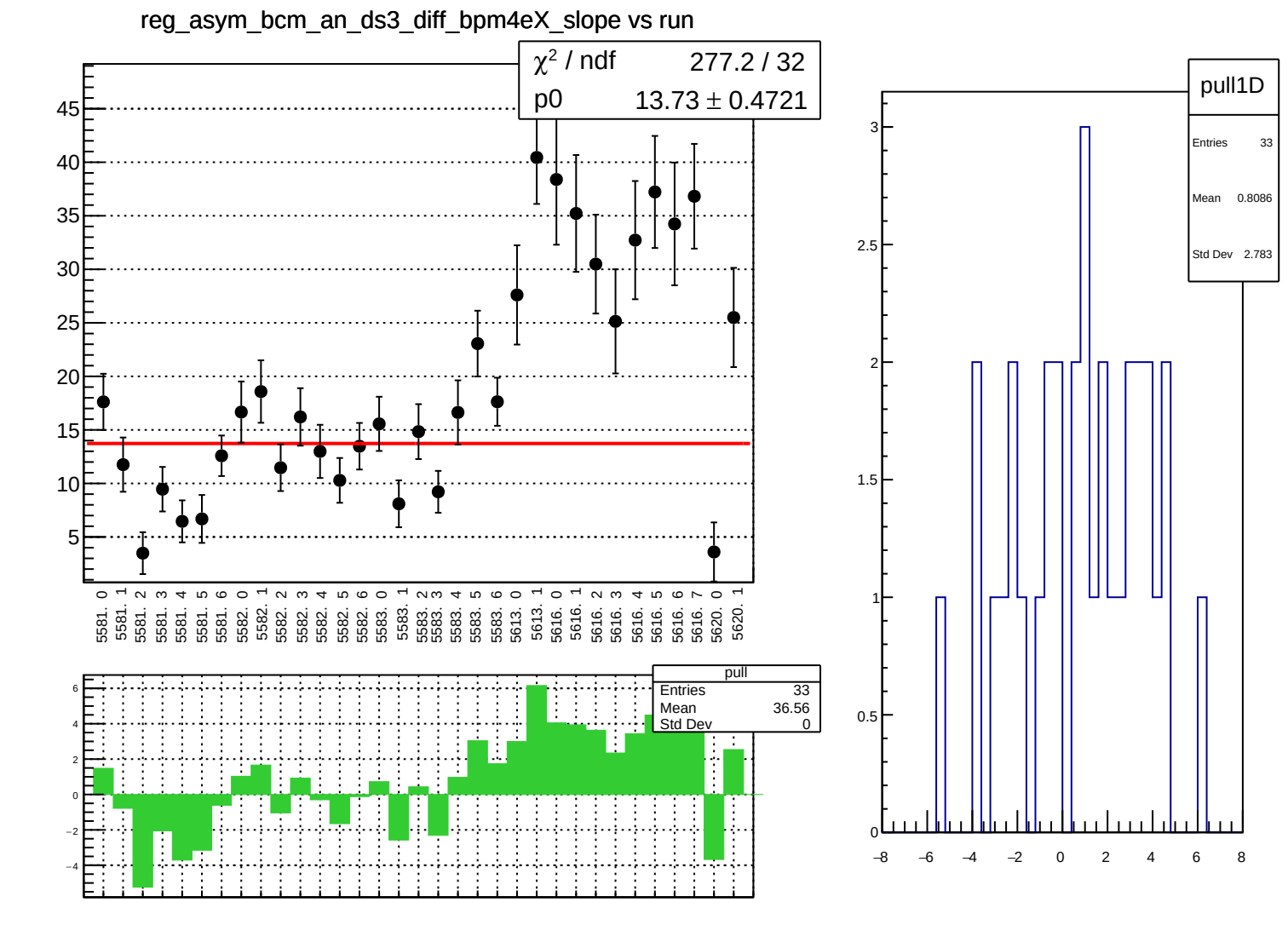

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.3 / 32
p0 −4.628 ± 3.479
3000
2000
1000
0
−1000
−2000
−3000
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 23.79
Std Dev 6.538
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean −0.1287
Std Dev 0.7124
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

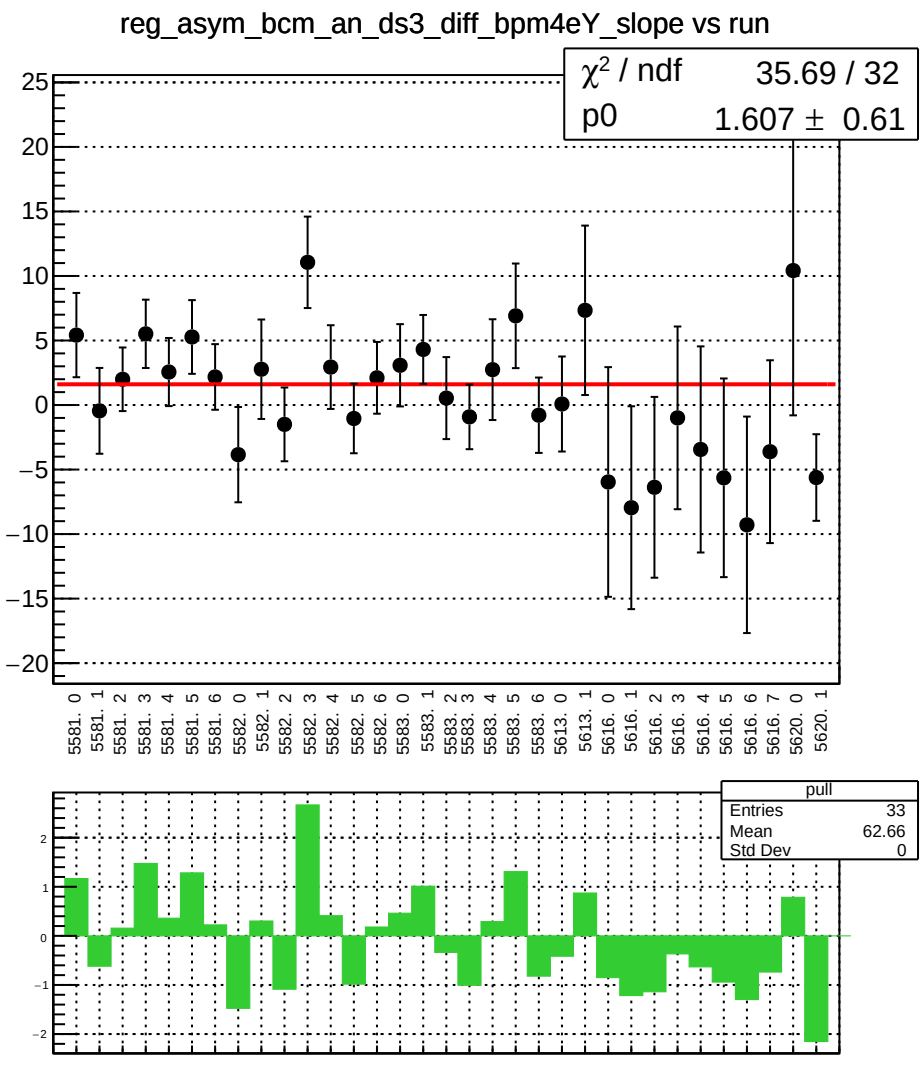

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 1298 / 32
p0 12.31 ± 0.1482
150
100
50
0
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 162.5
Std Dev 0
20
15
10
5
0
−5
pull1D
Entries 33
Mean −1.695
Std Dev 1.691
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

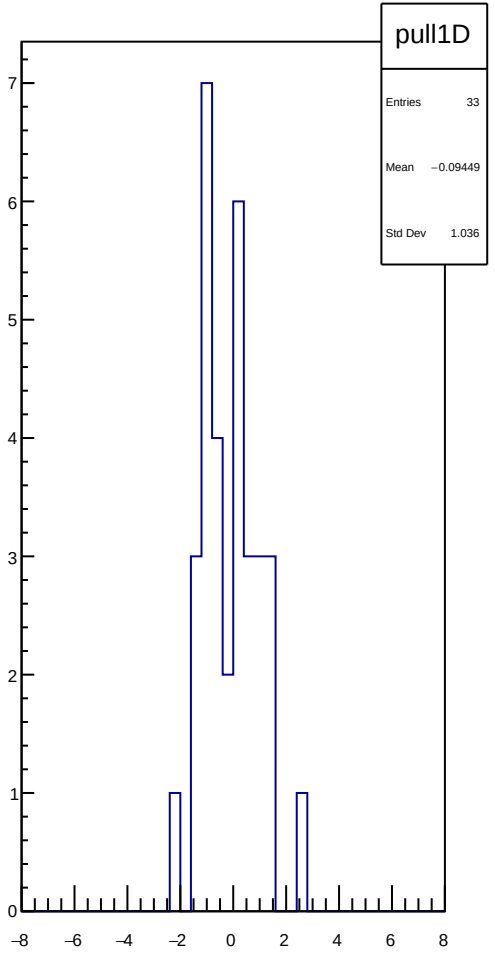

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 223.6 / 32
p0 −18.82 ± 0.61
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.65
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 33
Mean −0.5491
Std Dev 2.545
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

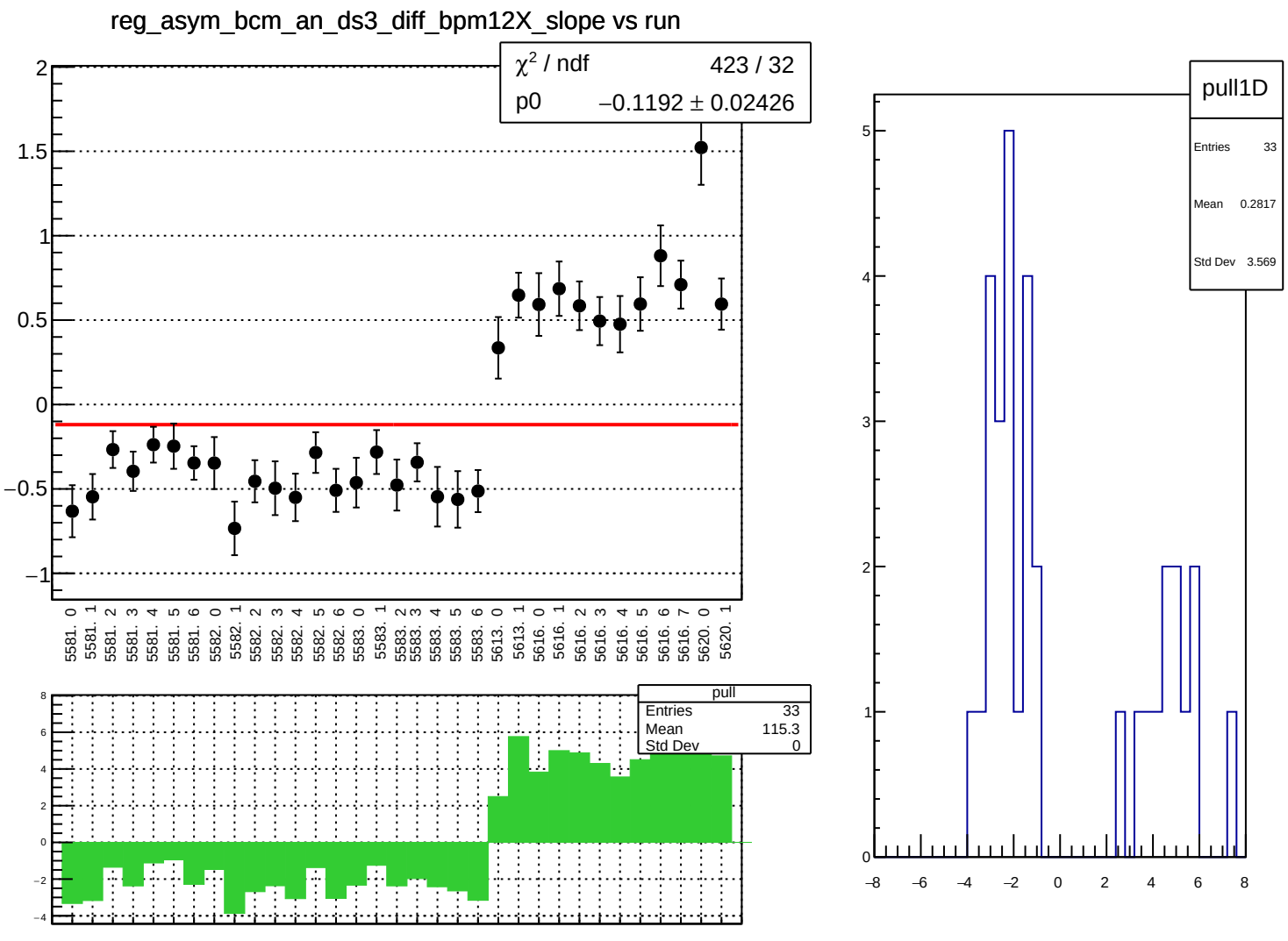

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 27.09 / 32
p0 −1.384 ± 0.4653
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −8.267
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

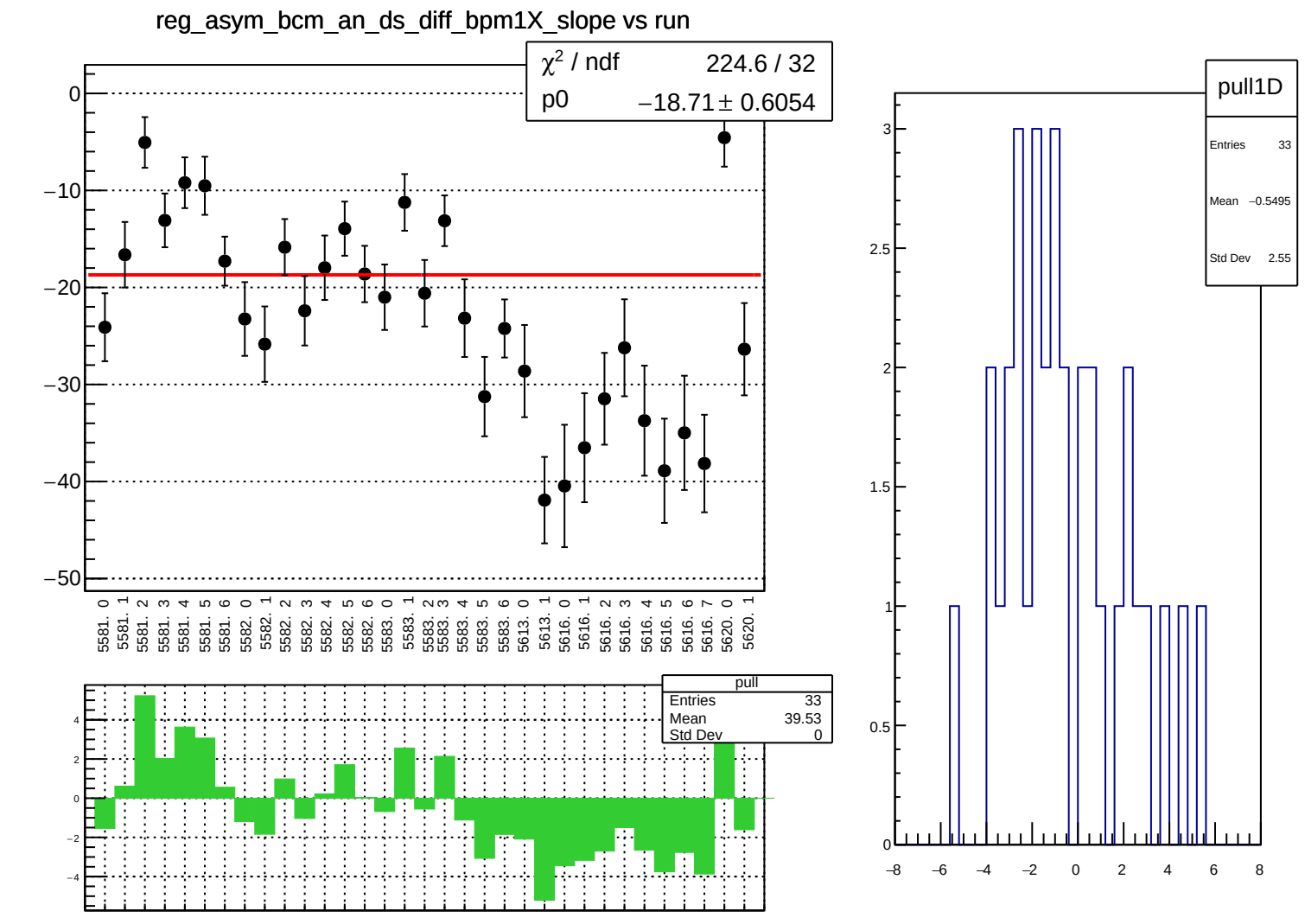

pull1D
Entries 33
Mean −0.02691
Std Dev 0.9056
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

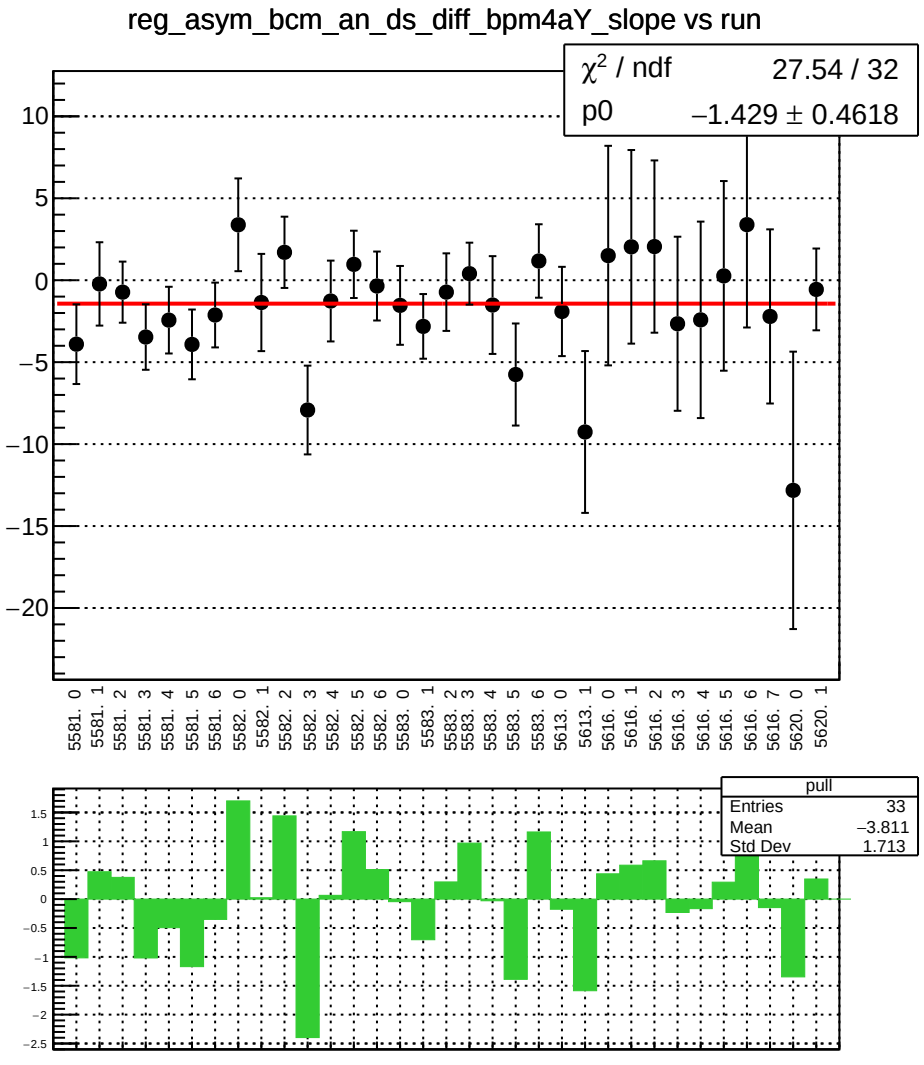

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 277.2 / 32
p0 13.73 ± 0.4721
pull
Entries 33
Mean 36.56
Std Dev 0
pull1D
Entries 33
Mean 0.8086
Std Dev 2.783

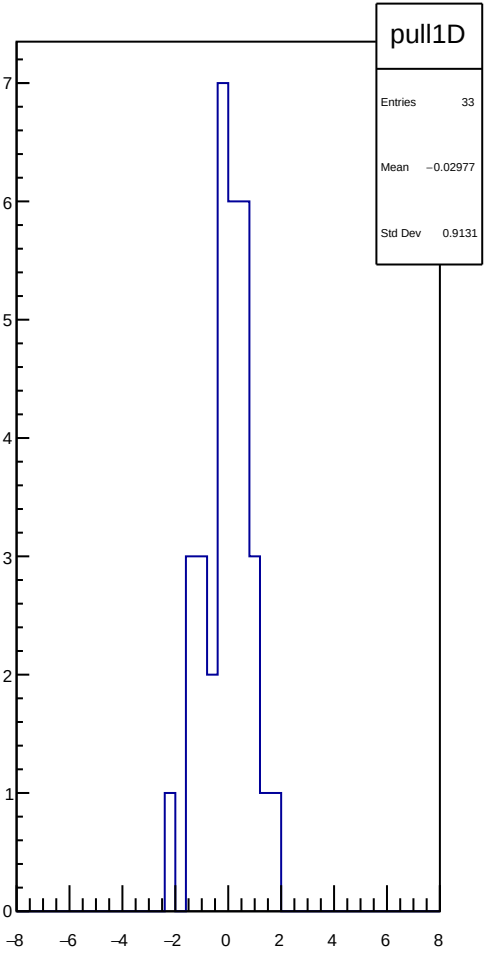

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 35.69 / 32
p0 1.607 ± 0.61
pull
Entries 33
Mean 62.66
Std Dev 0

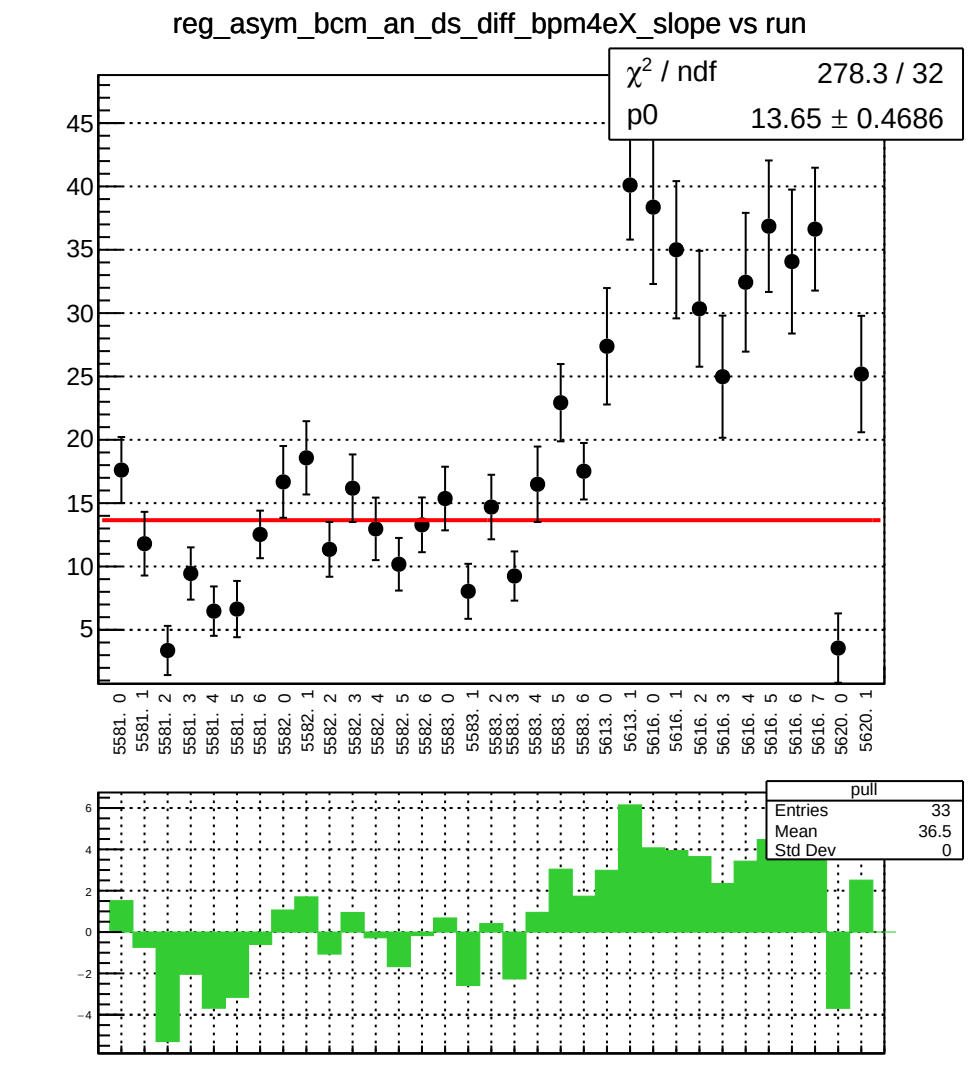

pull1D
Entries 33
Mean −0.09449
Std Dev 1.036

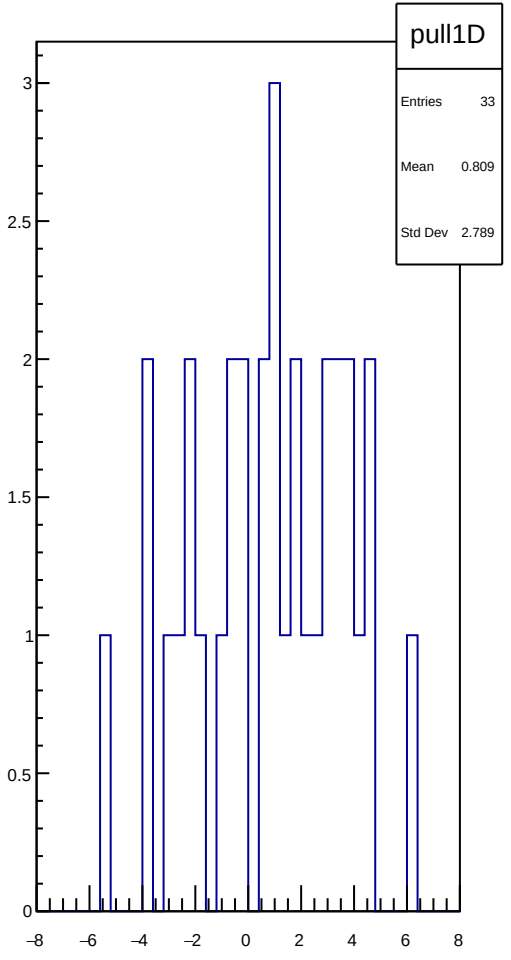

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 423 / 32
p0 −0.1192 ± 0.02426
2
1.5
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 115.3
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 33
Mean 0.2817
Std Dev 3.569
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

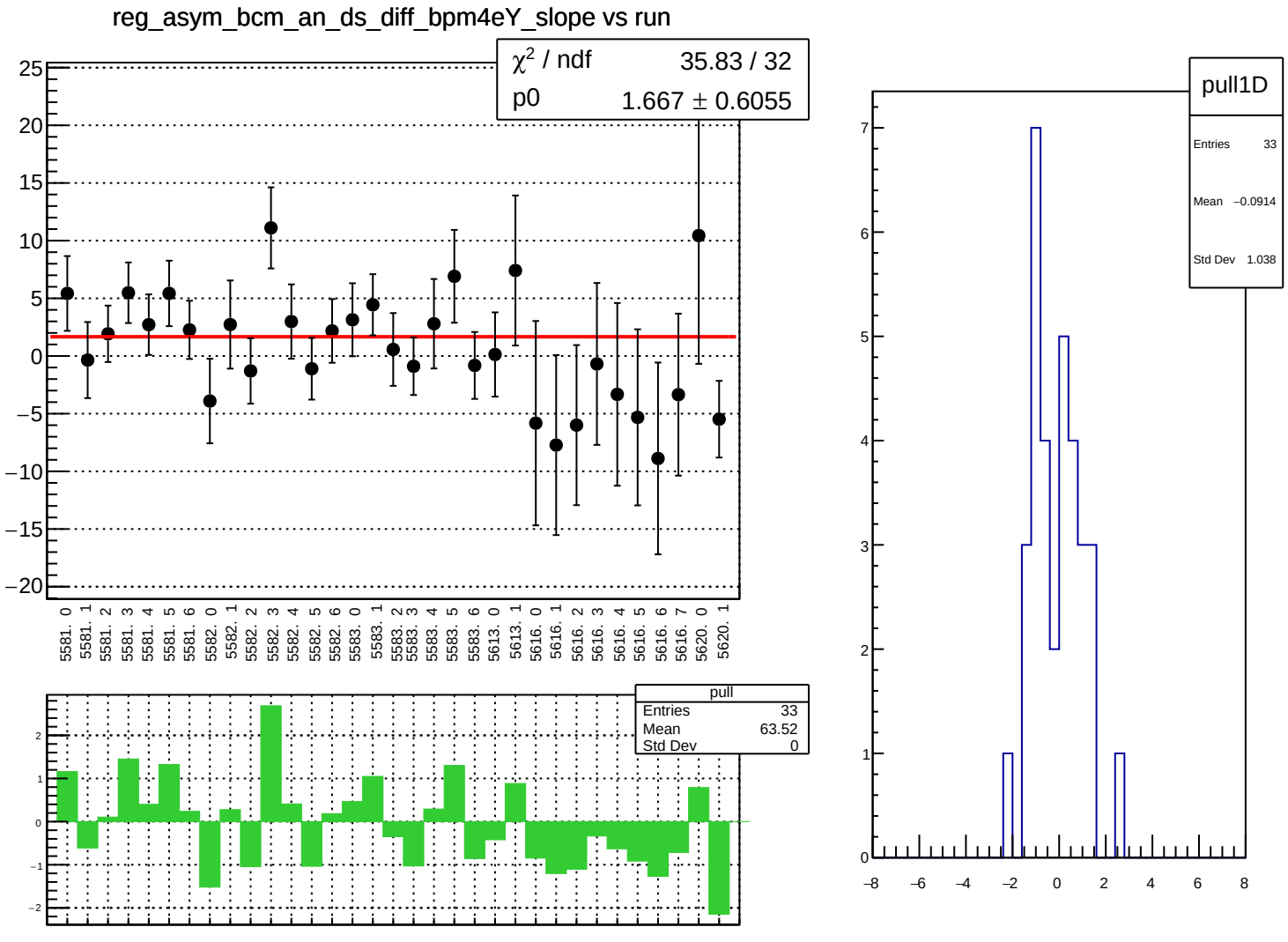

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 224.6 / 32
p0 −18.71 ± 0.6054
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.53
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 33
Mean −0.5495
Std Dev 2.55
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

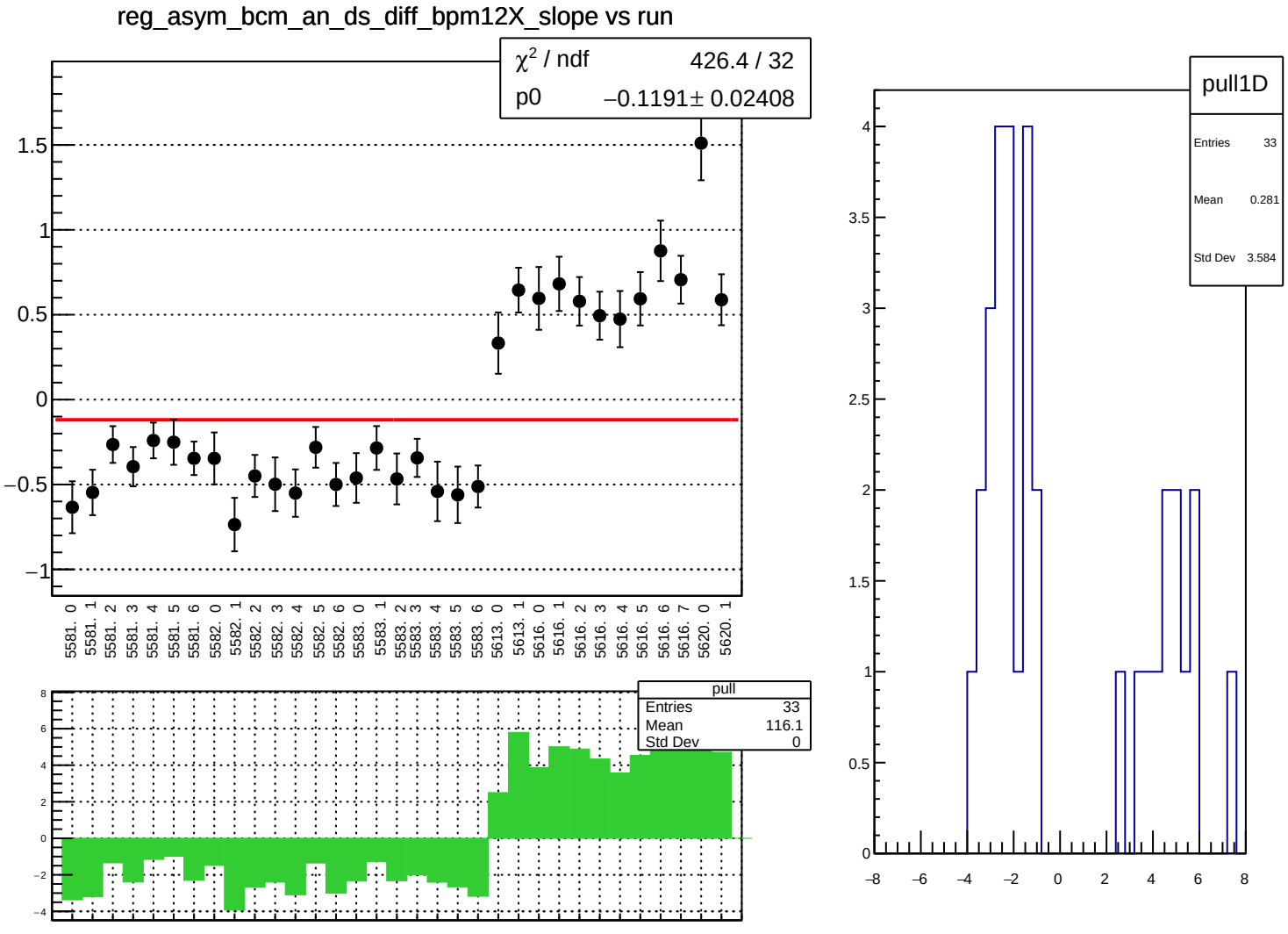

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 27.54 / 32
p0 −1.429 ± 0.4618
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −3.811
Std Dev 1.713
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

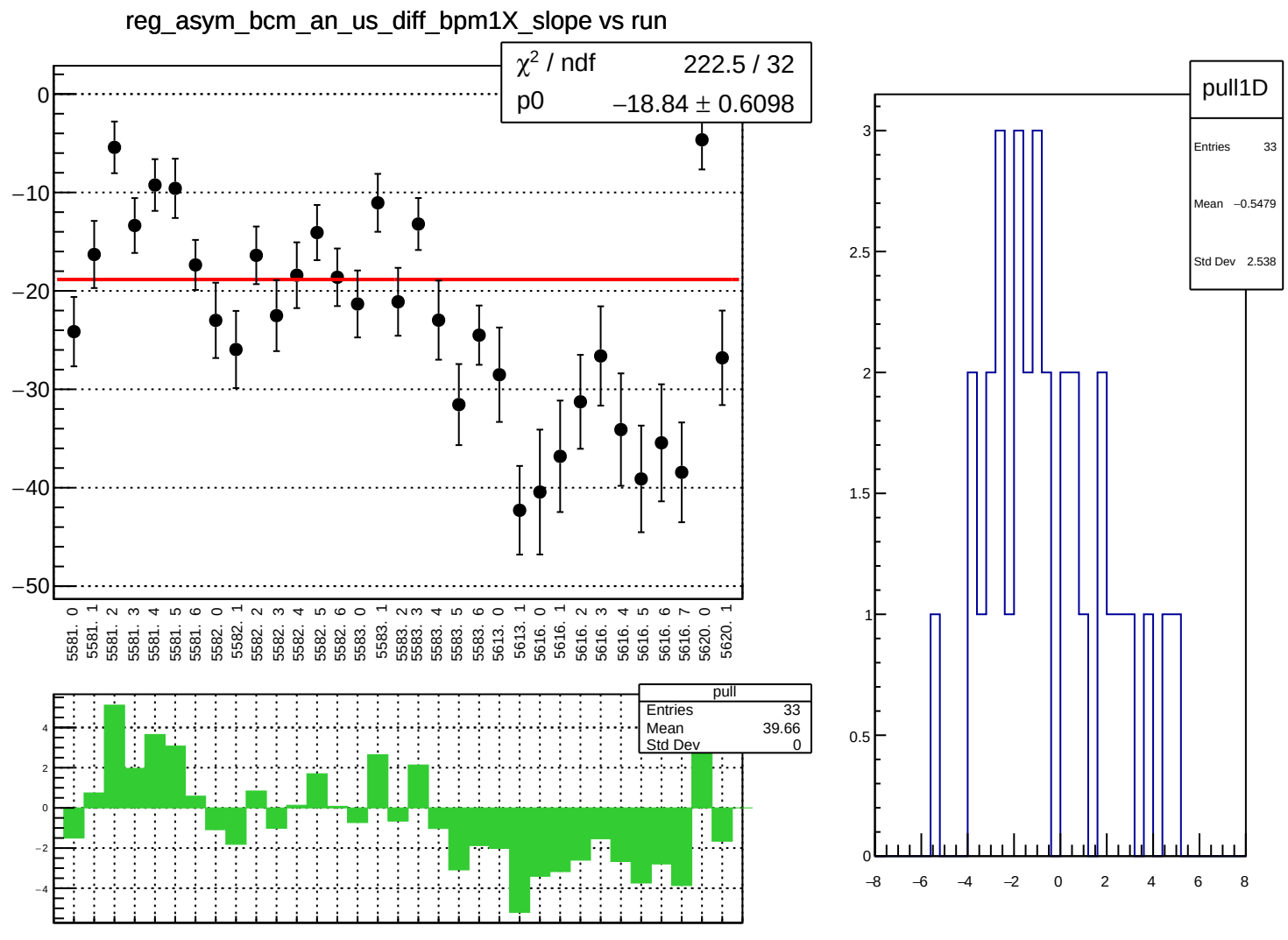

pull1D
Entries 33
Mean −0.02977
Std Dev 0.9131
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

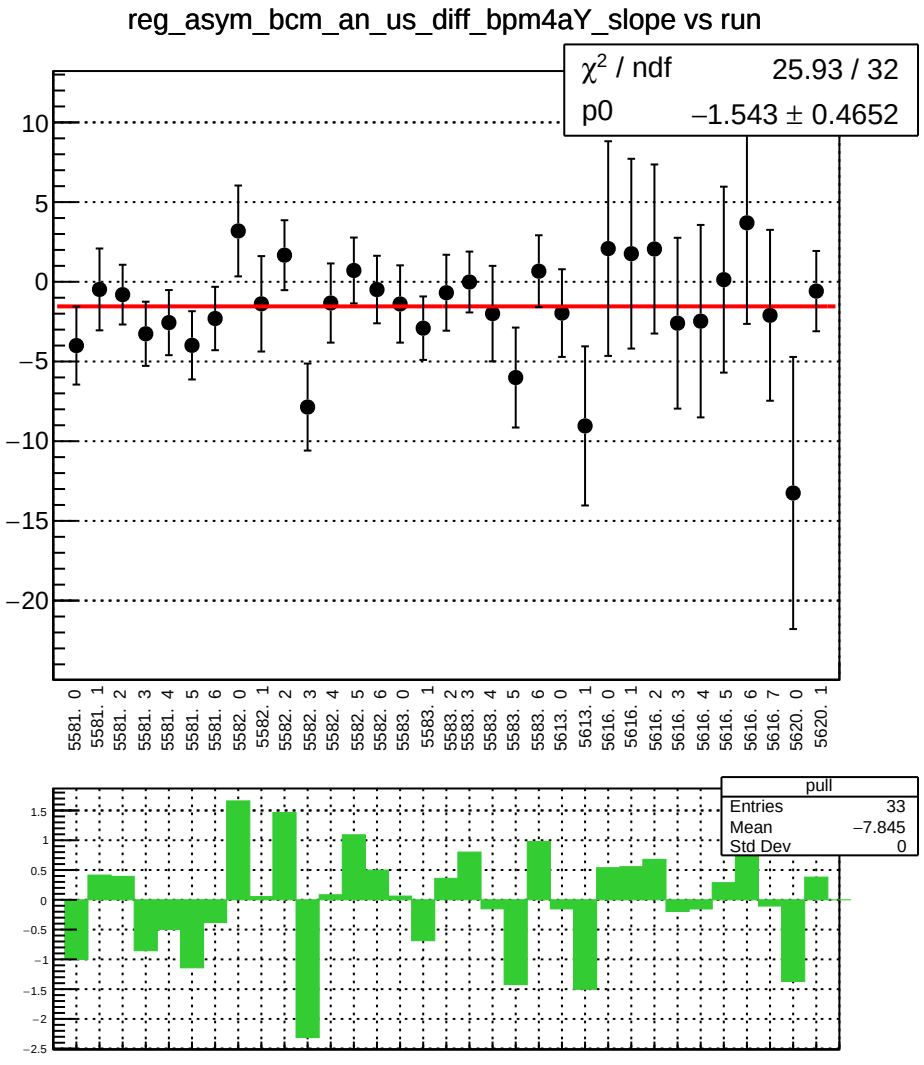

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 278.3 / 32
p0 13.65 ± 0.4686
pull
Entries 33
Mean 36.5
Std Dev 0

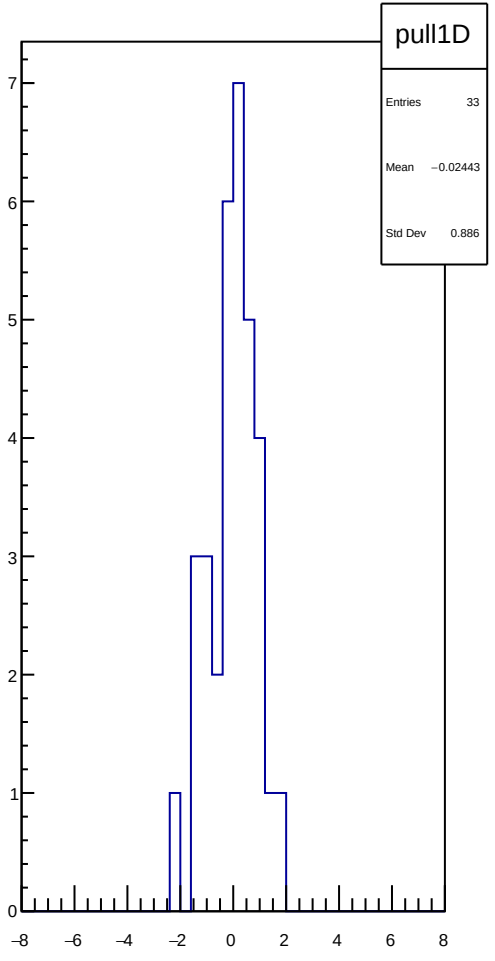

pull1D
Entries 33
Mean 0.809
Std Dev 2.789

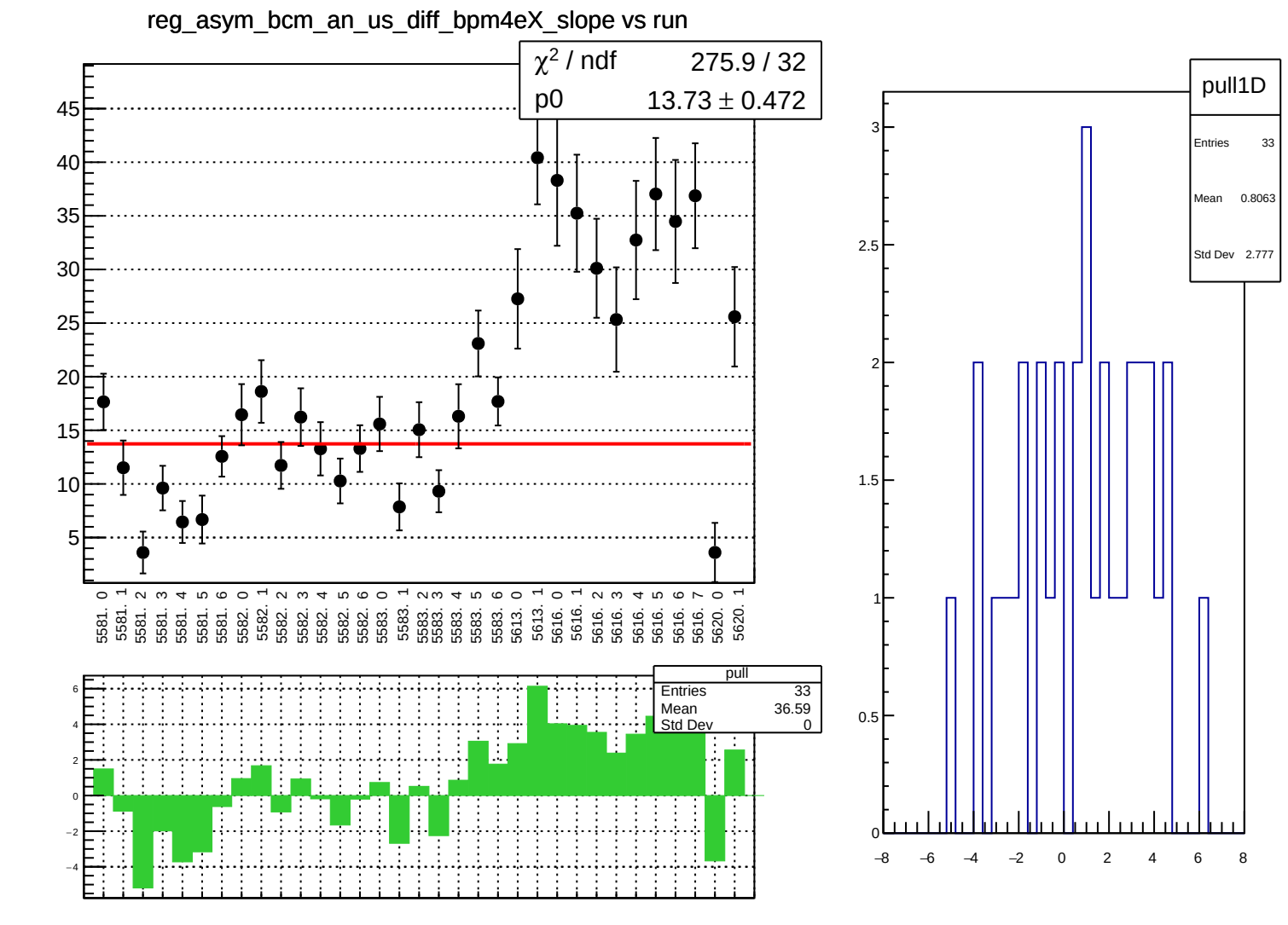

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 35.83 / 32
p0 1.667 ± 0.6055
pull
Entries 33
Mean 63.52
Std Dev 0
pull1D
Entries 33
Mean −0.0914
Std Dev 1.038

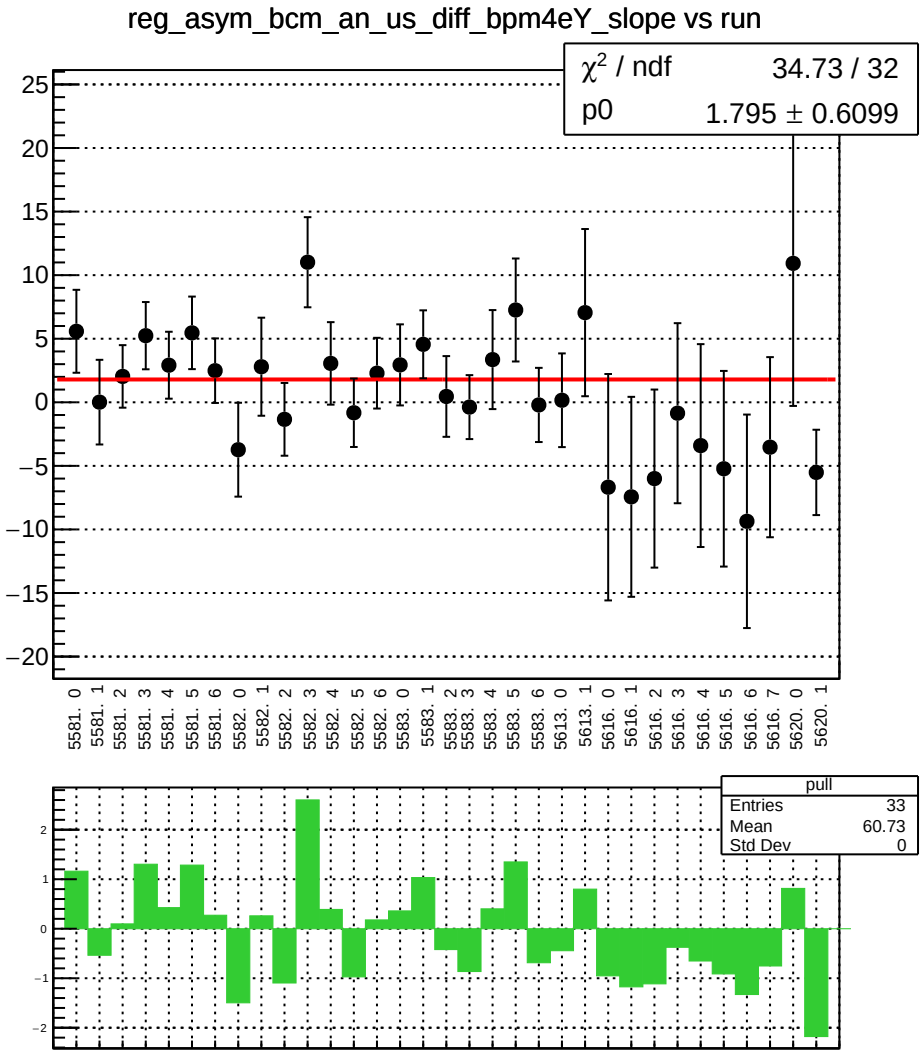

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 426.4 / 32
p0 −0.1191± 0.02408
1.5
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 116.1
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 33
Mean 0.281
Std Dev 3.584
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

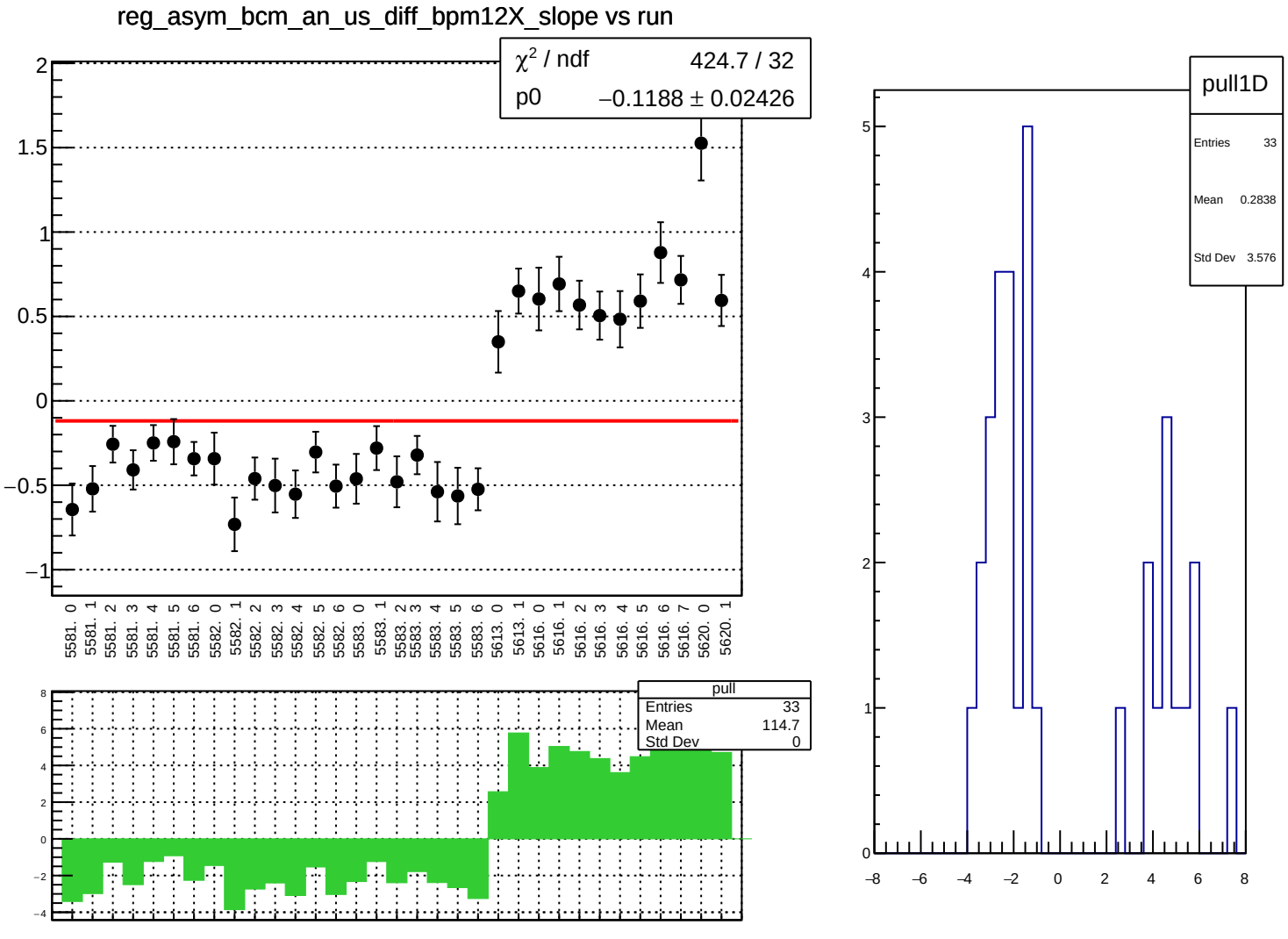

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 222.5 / 32
p0 −18.84 ± 0.6098
pull
Entries 33
Mean 39.66
Std Dev 0
pull1D
Entries 33
Mean −0.5479
Std Dev 2.538

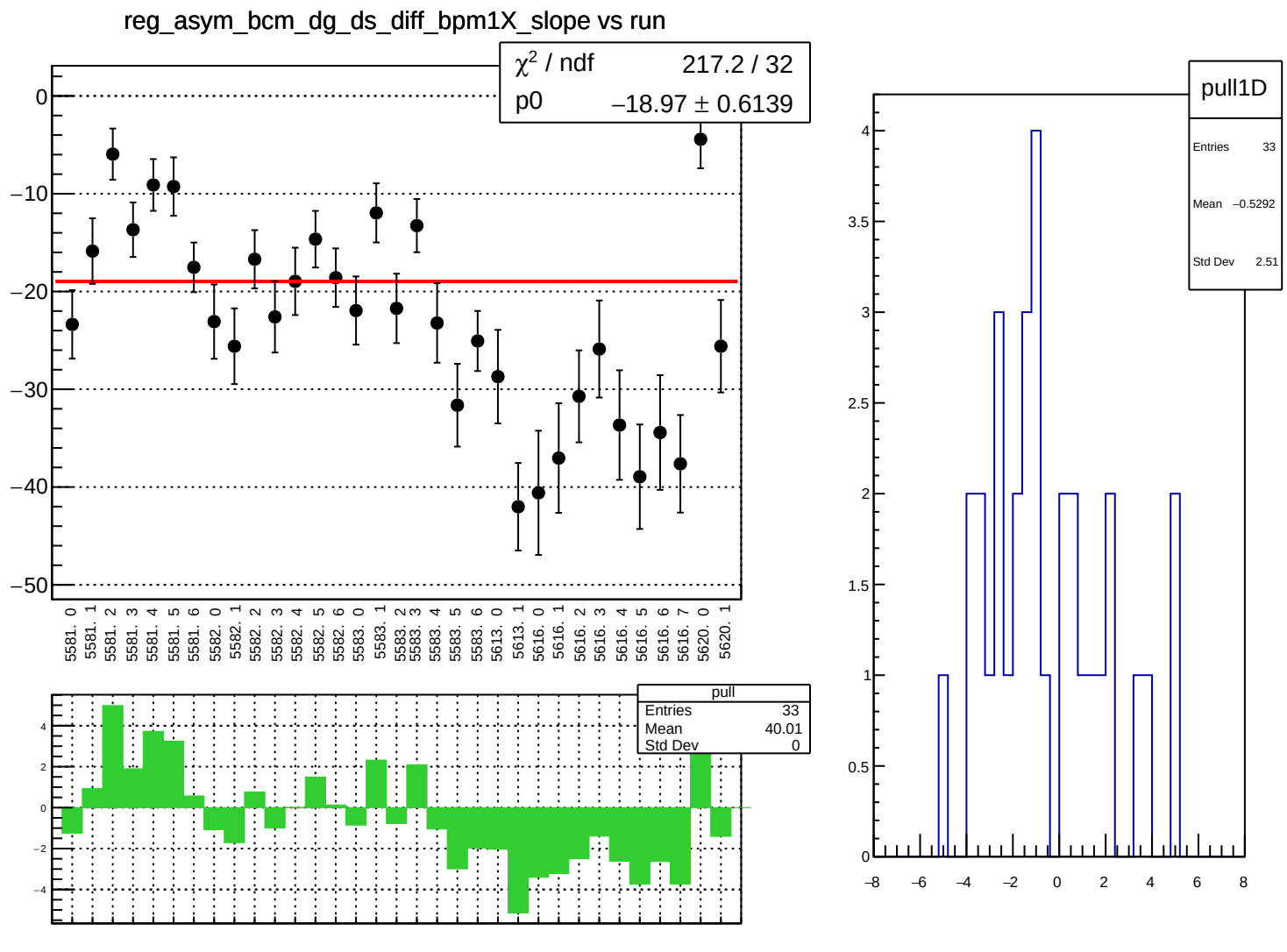

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 25.93 / 32
p0 −1.543 ± 0.4652
pull
Entries 33
Mean −7.845
Std Dev 0

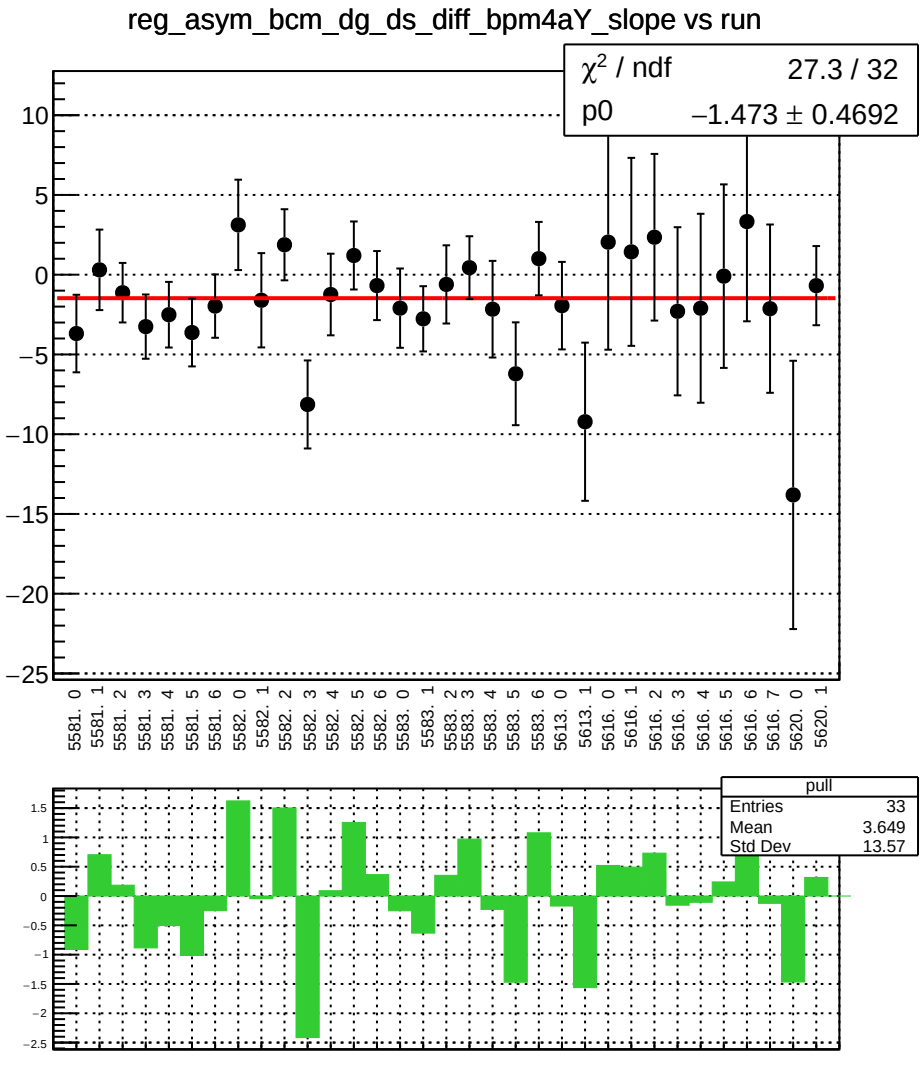

pull1D
Entries 33
Mean −0.02443
Std Dev 0.886

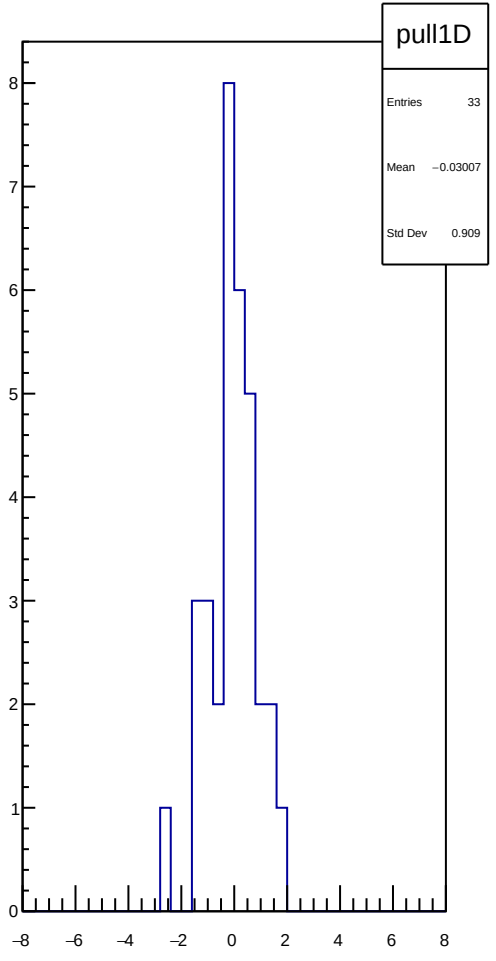

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 275.9 / 32
p0 13.73 ± 0.472
pull
Entries 33
Mean 36.59
Std Dev 0
pull1D
Entries 33
Mean 0.8063
Std Dev 2.777

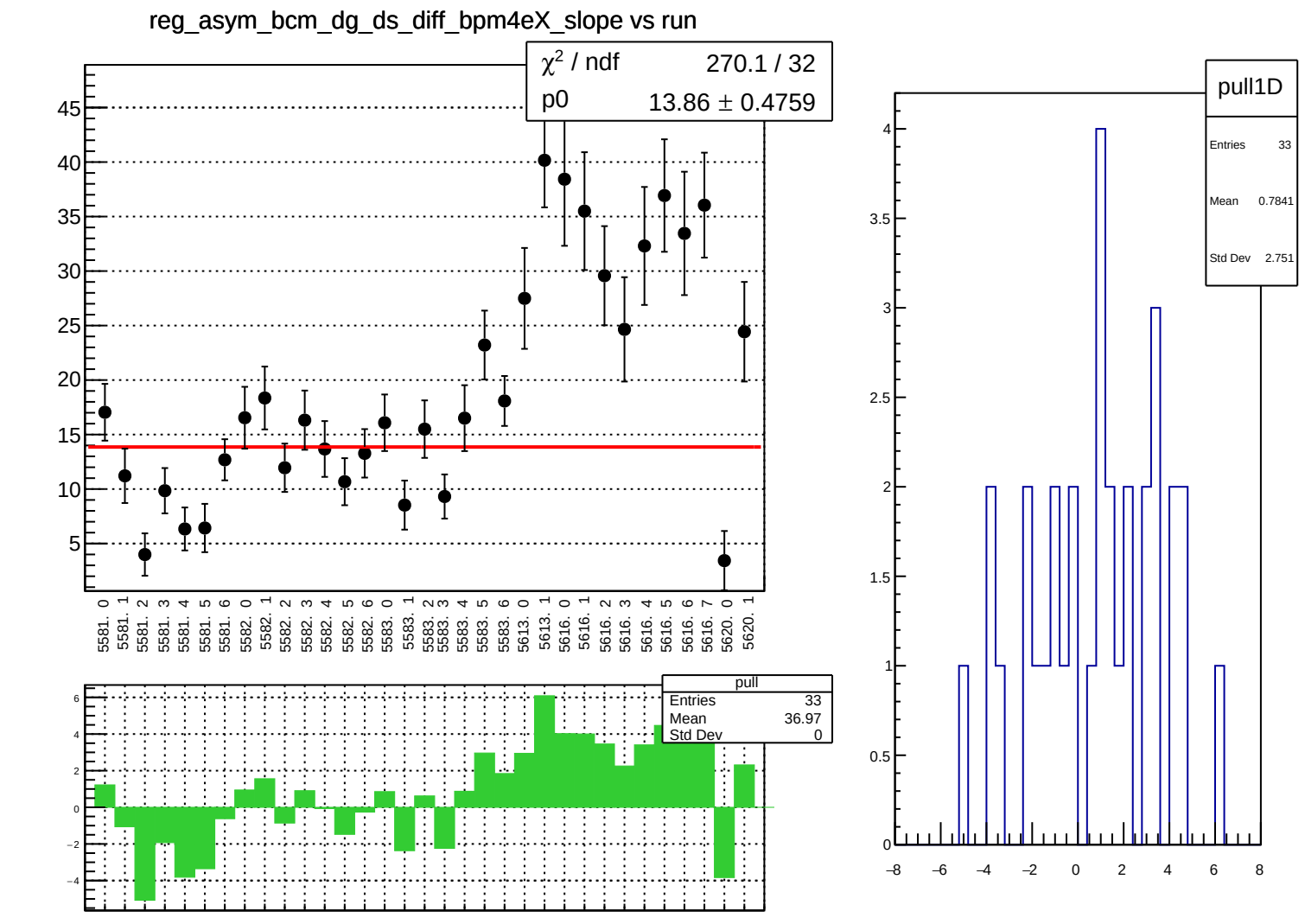

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 34.73 / 32
p0 1.795 ± 0.6099
pull
Entries 33
Mean 60.73
Std Dev 0
pull1D
Entries 33
Mean −0.09748
Std Dev 1.021

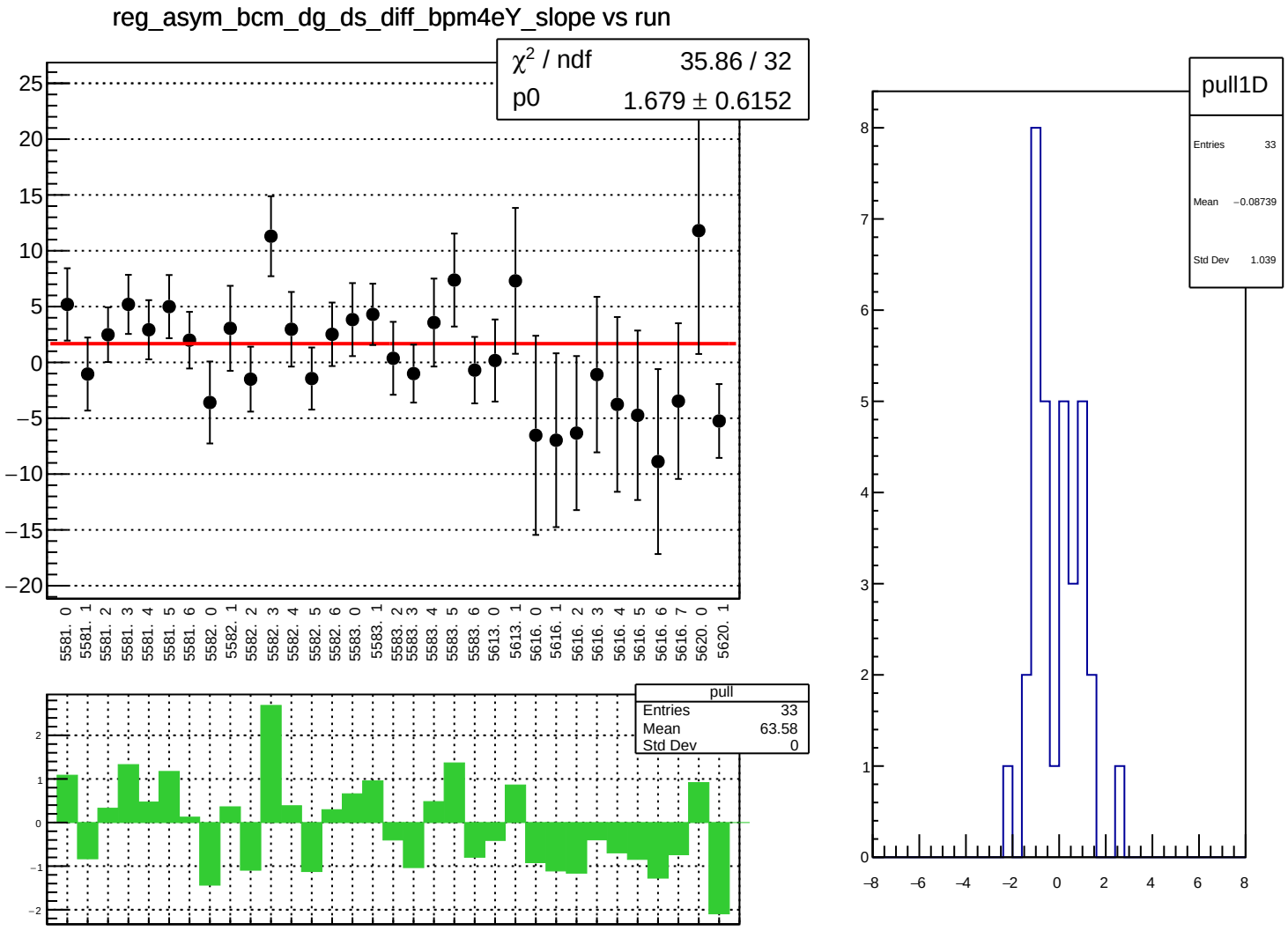

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 424.7 / 32
p0 −0.1188 ± 0.02426
pull
Entries 33
Mean 114.7
Std Dev 0
pull1D
Entries 33
Mean 0.2838
Std Dev 3.576

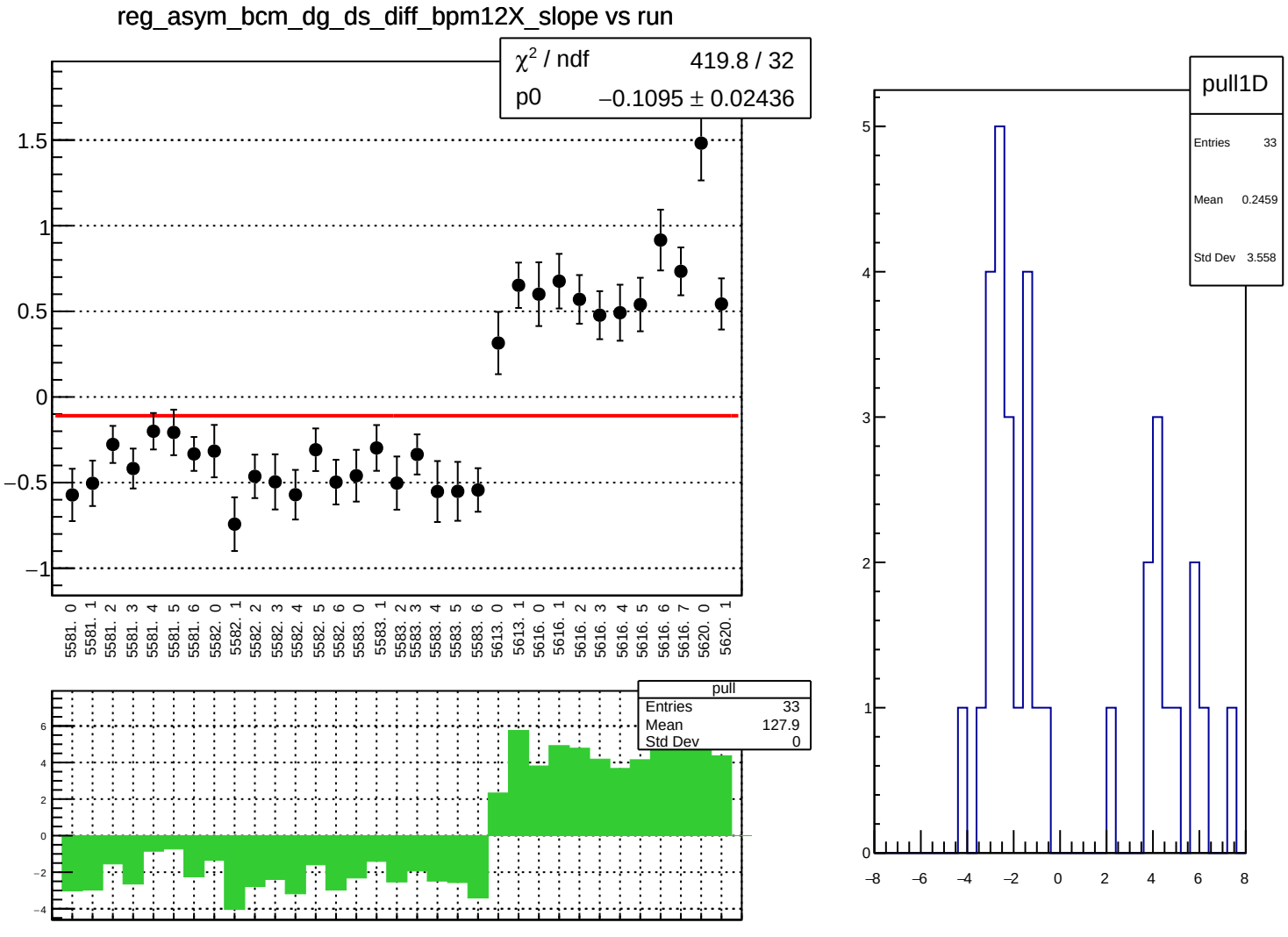

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 217.2 / 32
p0 −18.97 ± 0.6139
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.01
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 33
Mean −0.5292
Std Dev 2.51
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

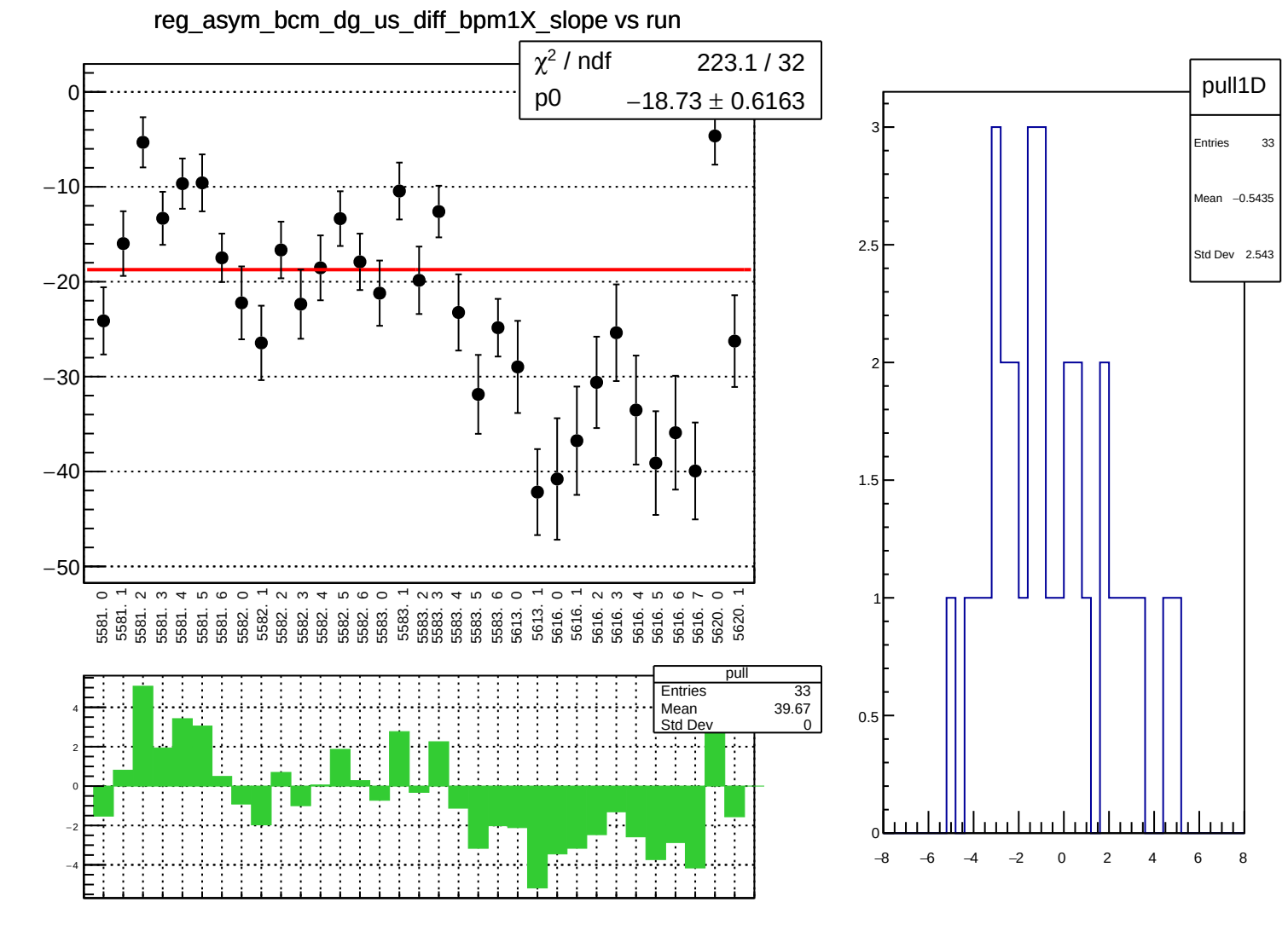

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 27.3 / 32
p0 −1.473 ± 0.4692
pull
Entries 33
Mean 3.649
Std Dev 13.57

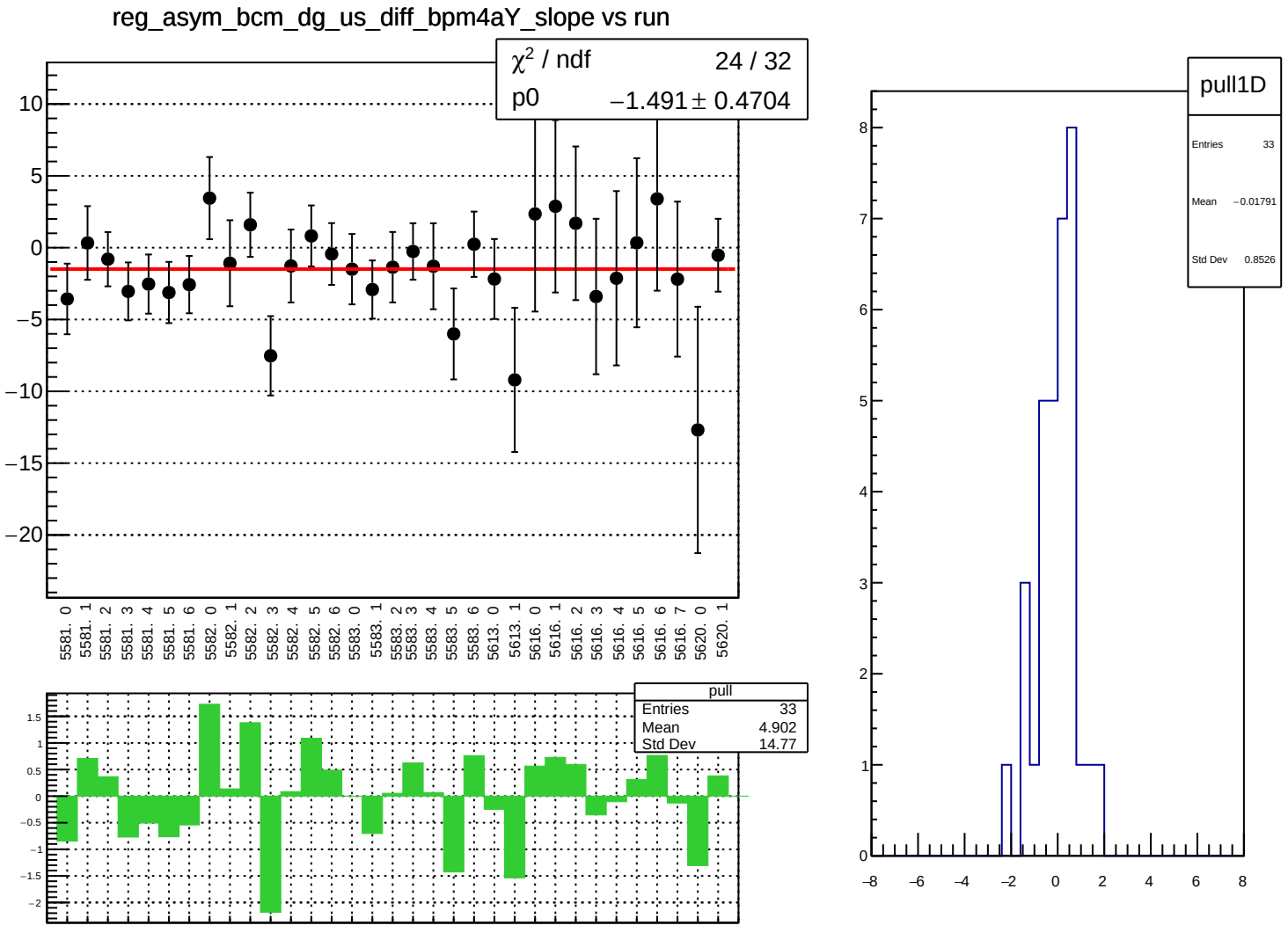

pull1D
Entries 33
Mean −0.03007
Std Dev 0.909

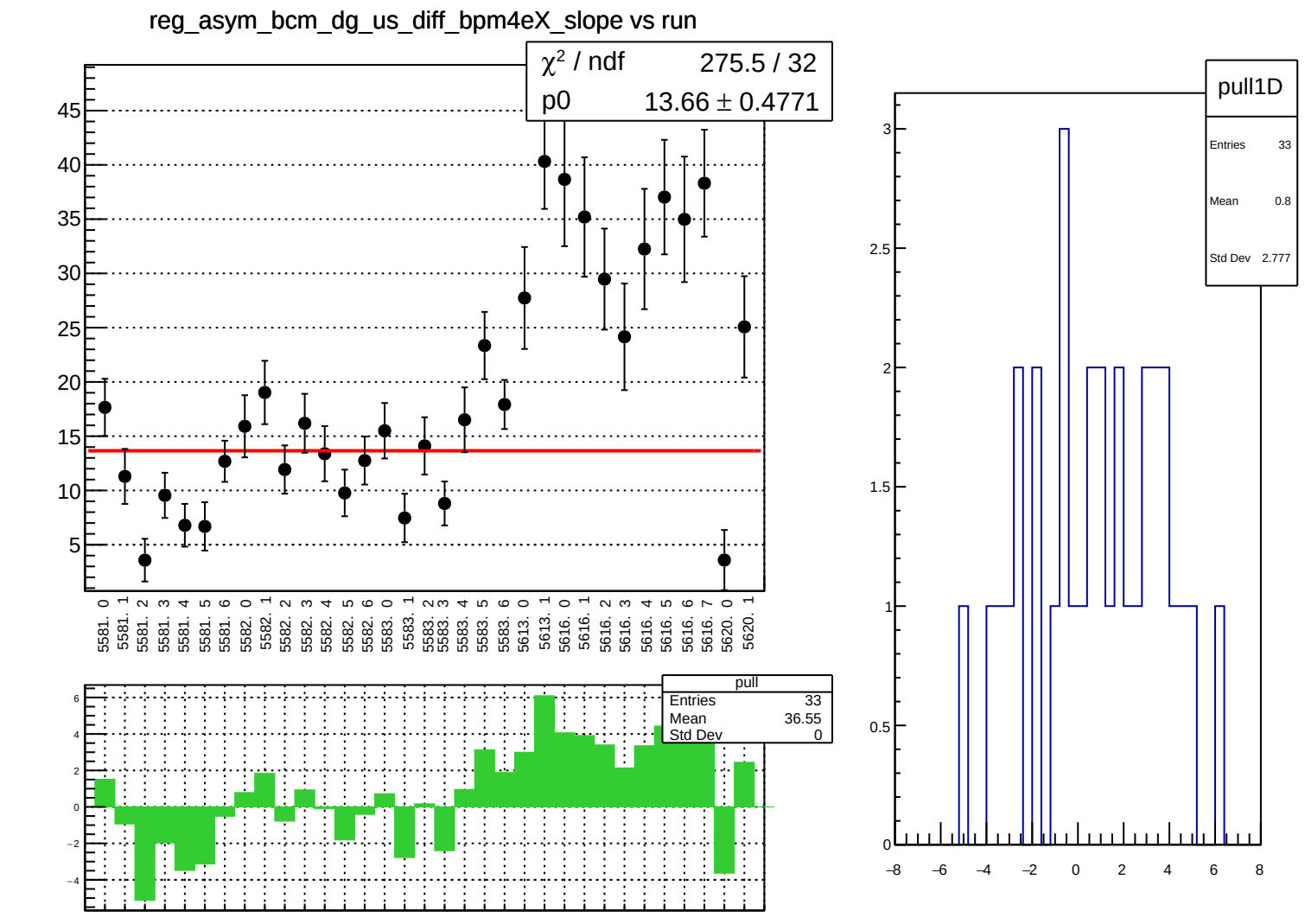

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 270.1 / 32
p0 13.86 ± 0.4759
pull
Entries 33
Mean 36.97
Std Dev 0
pull1D
Entries 33
Mean 0.7841
Std Dev 2.751

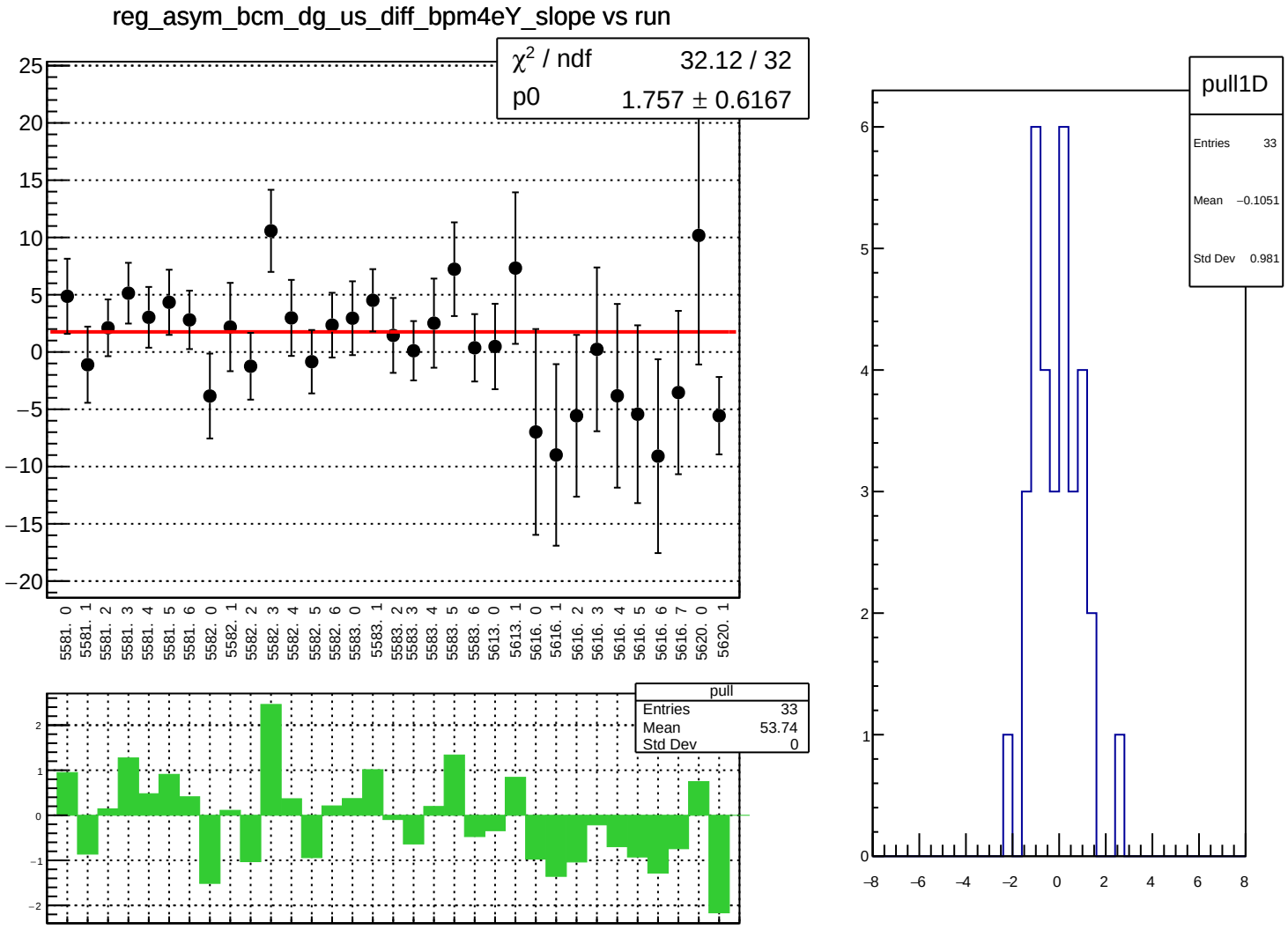

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 35.86 / 32
p0 1.679 ± 0.6152
pull
Entries 33
Mean 63.58
Std Dev 0
pull1D
Entries 33
Mean −0.08739
Std Dev 1.039

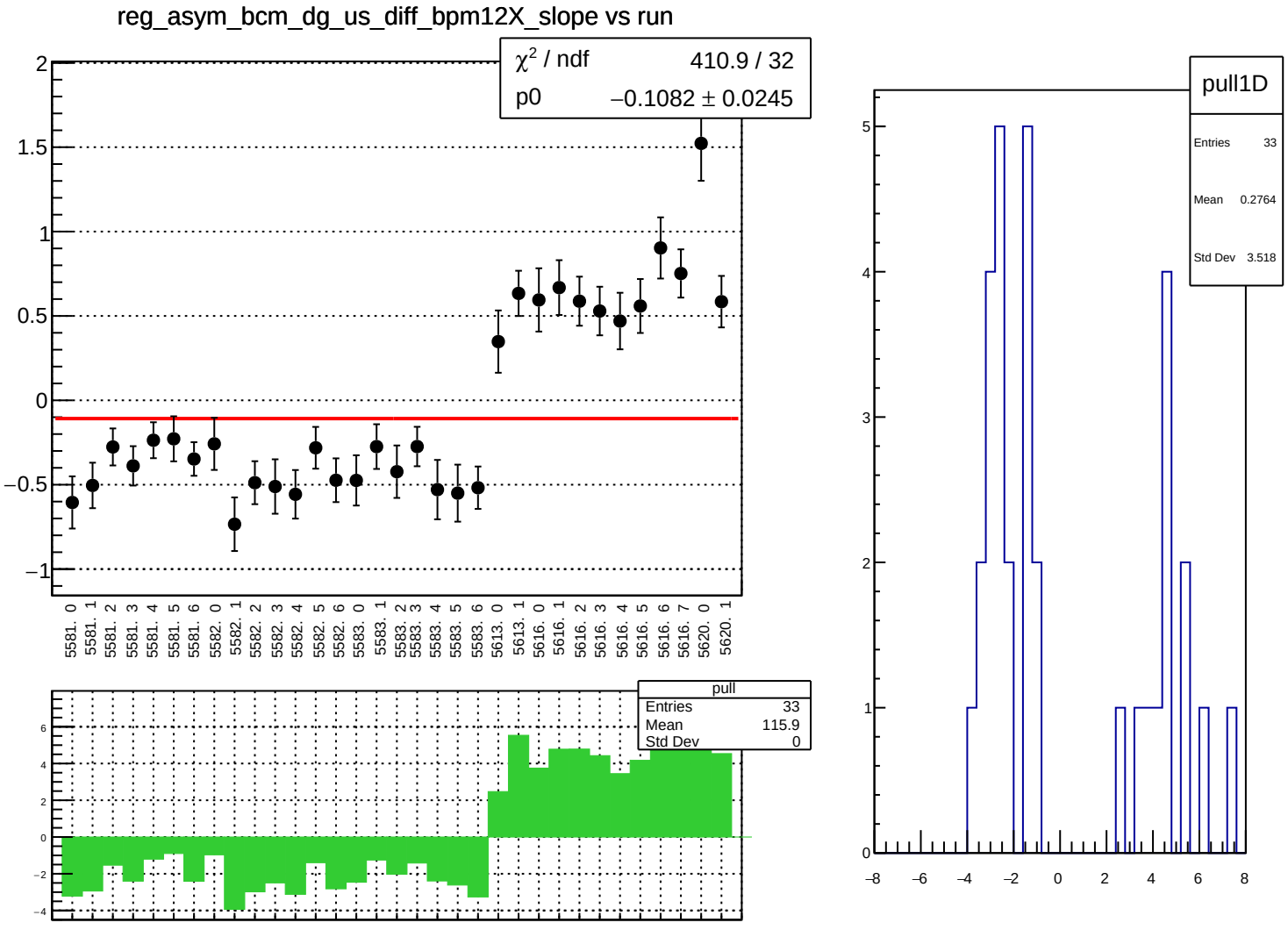

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 419.8 / 32
p0 −0.1095 ± 0.02436
1.5
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 127.9
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 33
Mean 0.2459
Std Dev 3.558
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

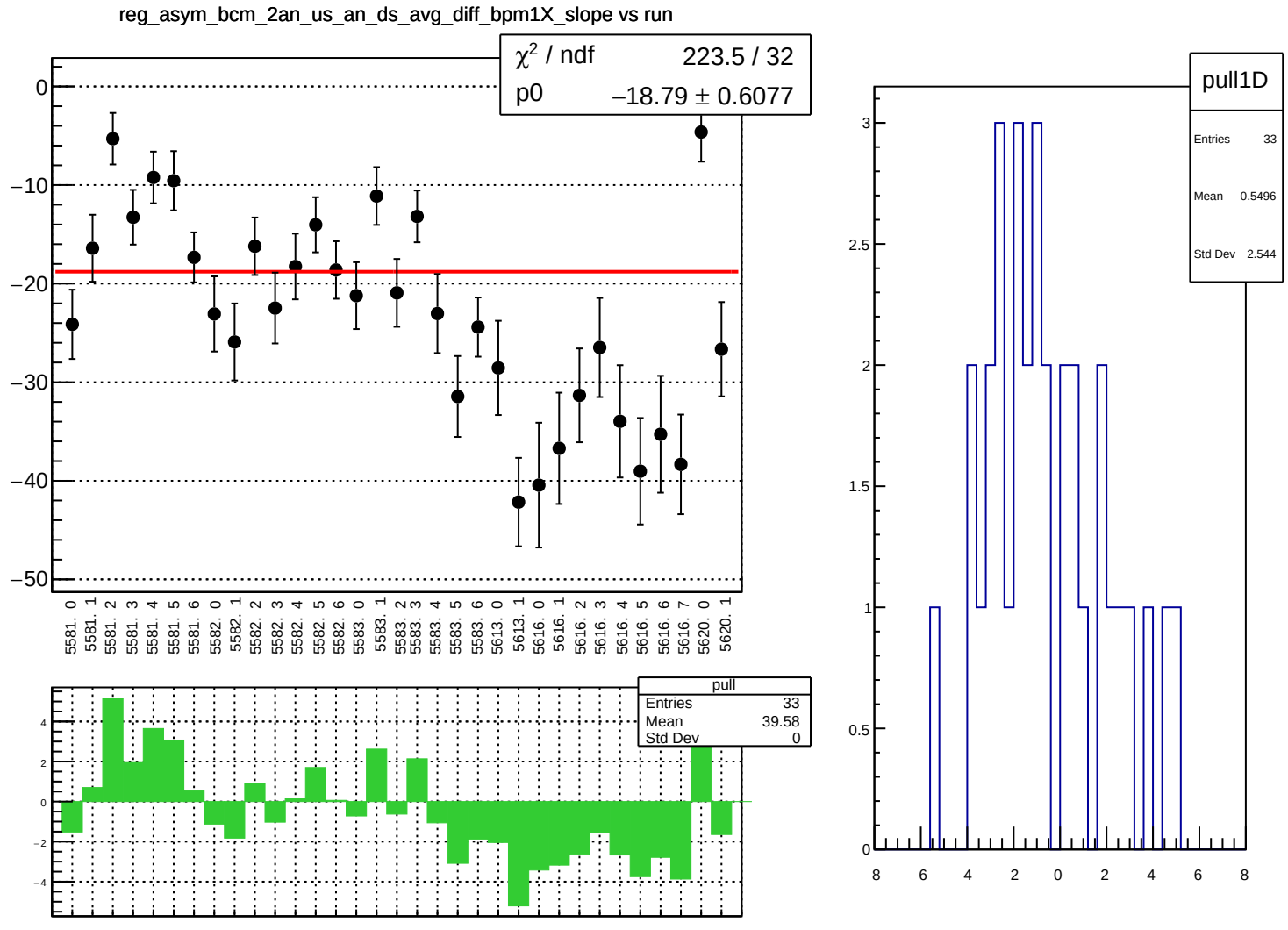

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 223.1 / 32
p0 −18.73 ± 0.6163
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.67
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 33
Mean −0.5435
Std Dev 2.543
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

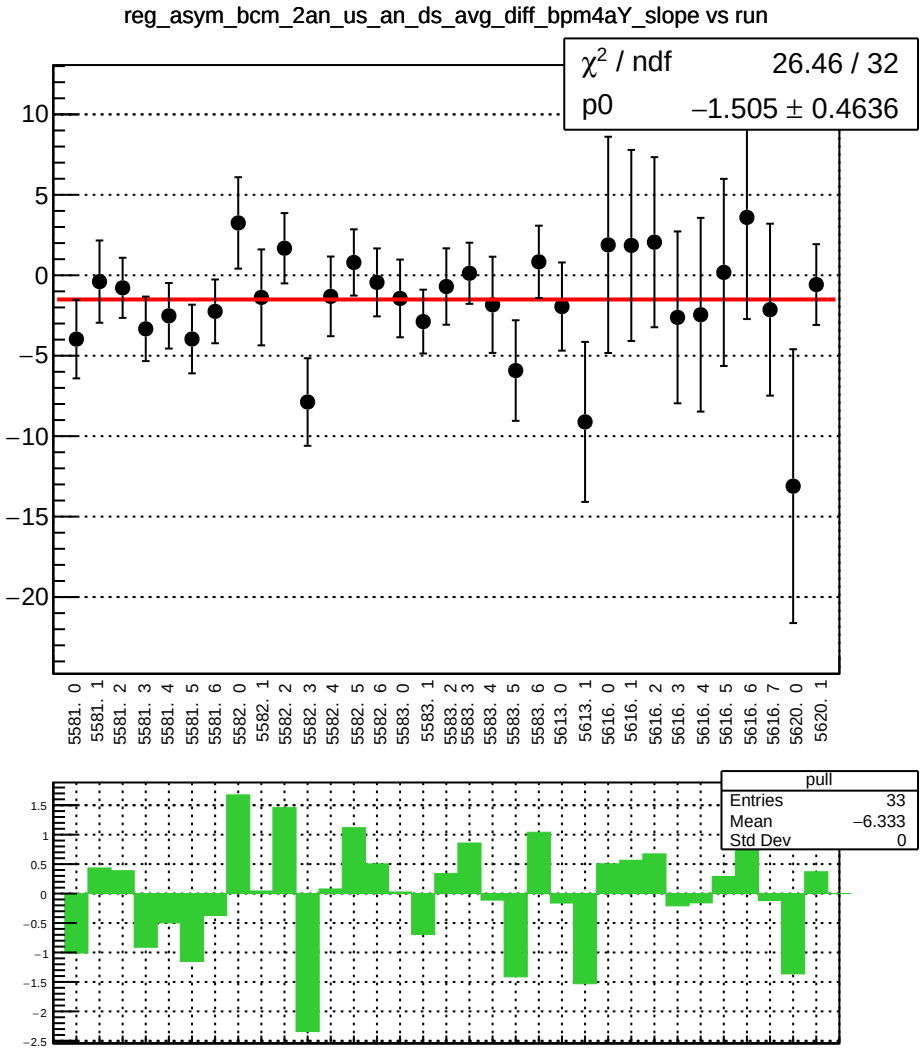

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 24 / 32
p0 −1.491 ± 0.4704
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 4.902
Std Dev 14.77
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01791
Std Dev 0.8526
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

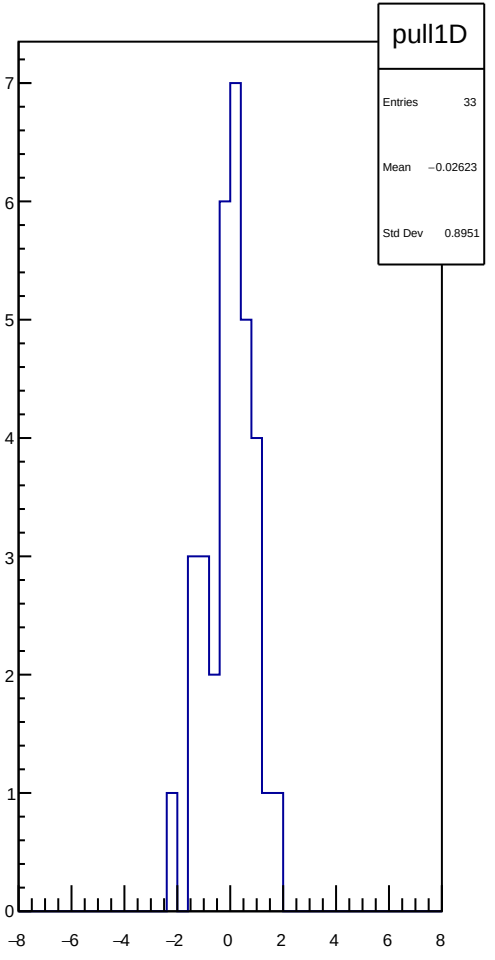

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 275.5 / 32
p0 13.66 ± 0.4771
45
40
35
30
25
20
15
10
5
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 36.55
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 33
Mean 0.8
Std Dev 2.777
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

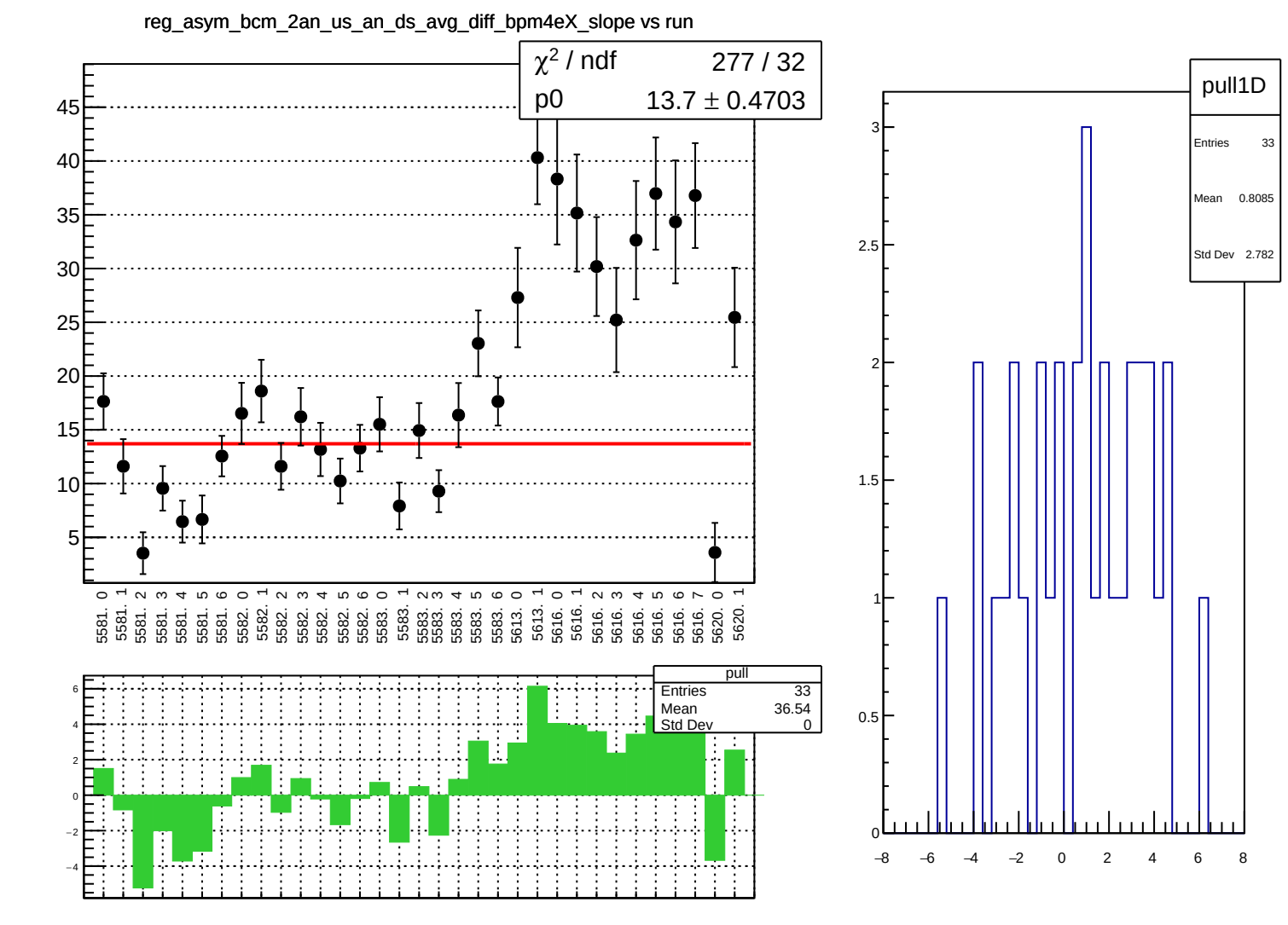

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 32.12 / 32
p0 1.757 ± 0.6167
pull
Entries 33
Mean 53.74
Std Dev 0
pull1D
Entries 33
Mean −0.1051
Std Dev 0.981

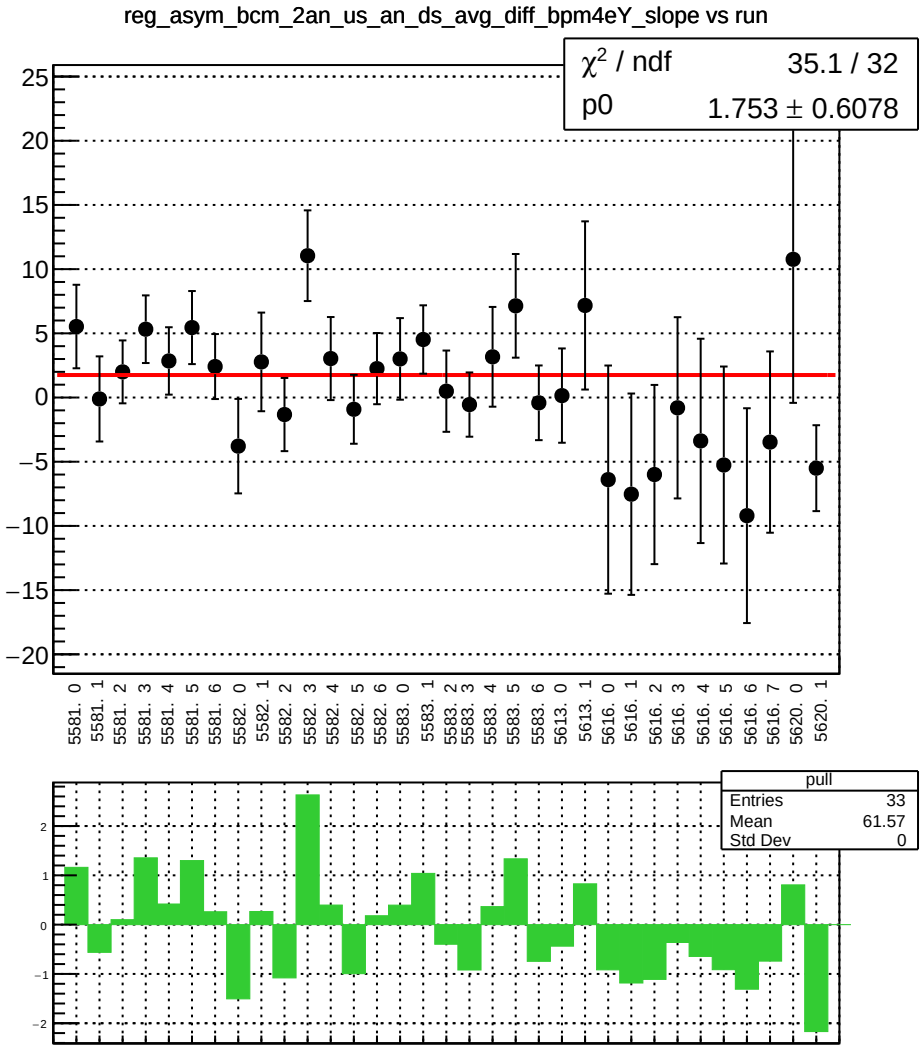

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 410.9 / 32
p0 −0.1082 ± 0.0245
pull
Entries 33
Mean 115.9
Std Dev 0
pull1D
Entries 33
Mean 0.2764
Std Dev 3.518

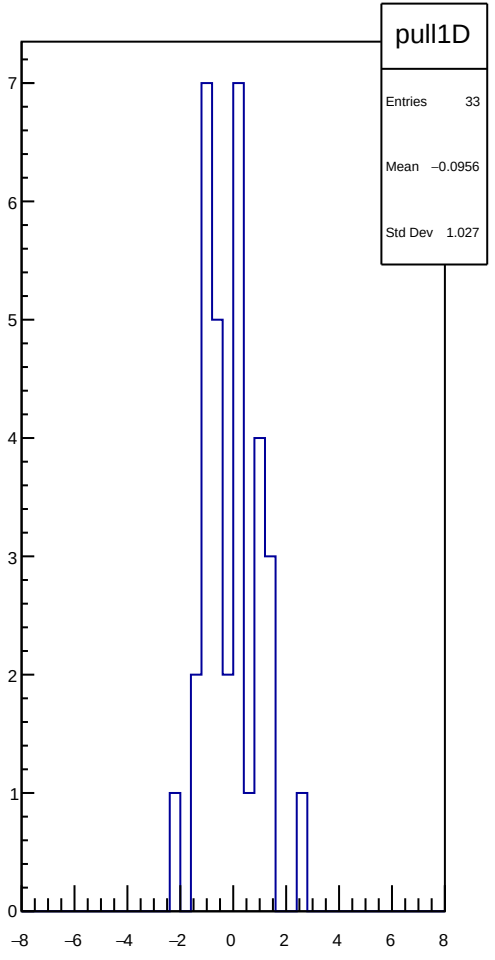

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 223.5 / 32
p0 −18.79 ± 0.6077
pull
Entries 33
Mean 39.58
Std Dev 0
pull1D
Entries 33
Mean −0.5496
Std Dev 2.544

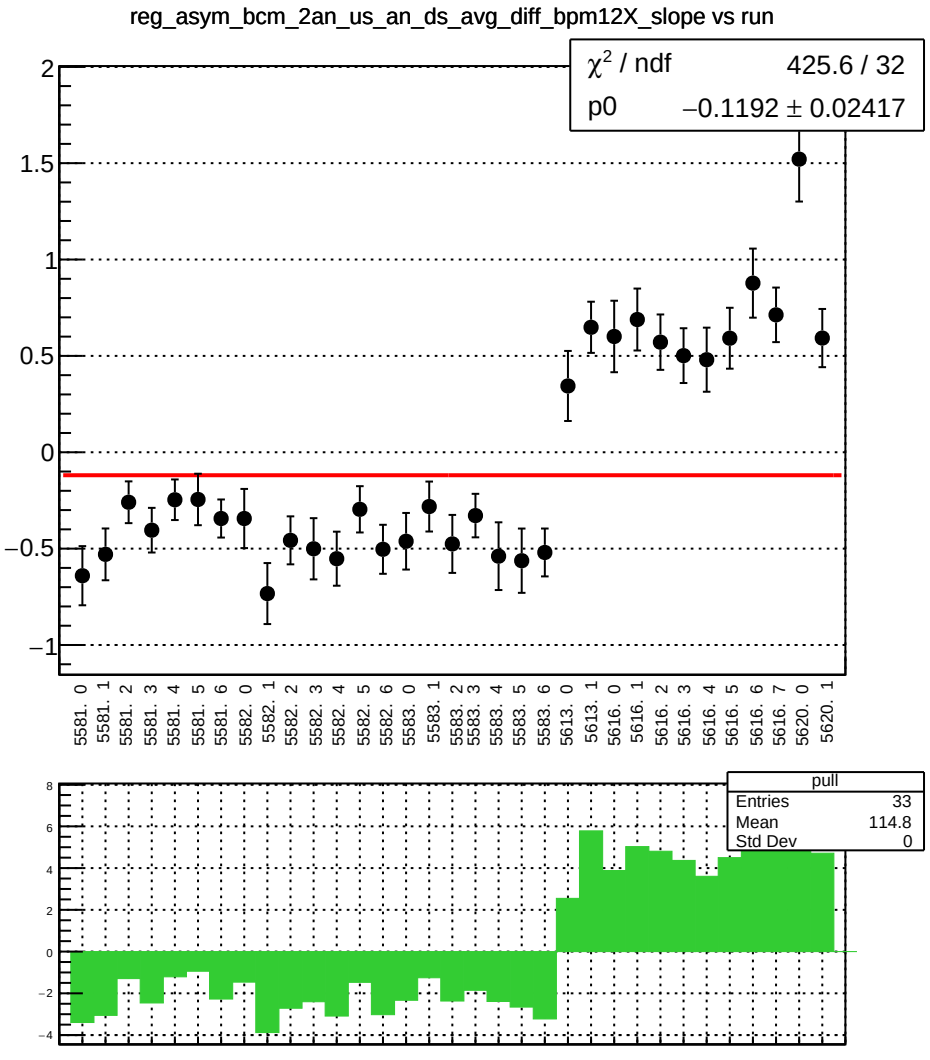

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.46 / 32
p0 −1.505 ± 0.4636
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −6.333
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

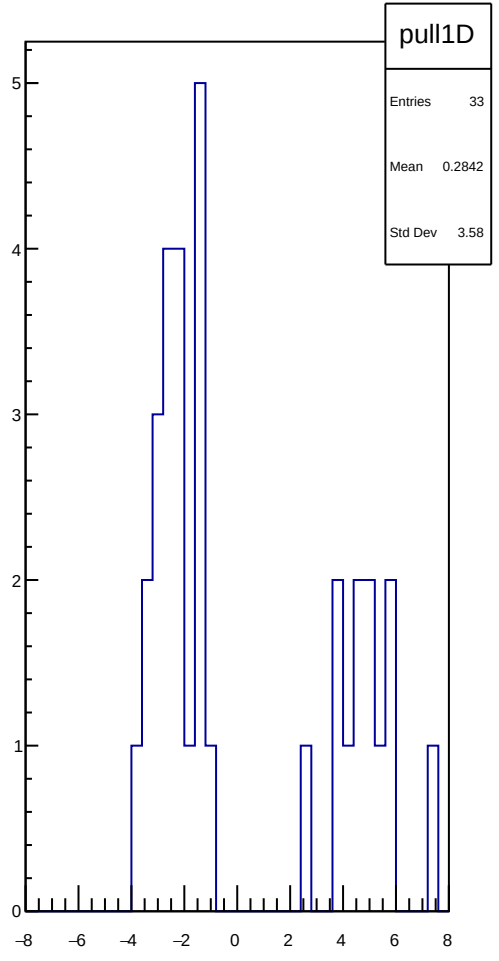

pull1D
Entries 33
Mean −0.02623
Std Dev 0.8951
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

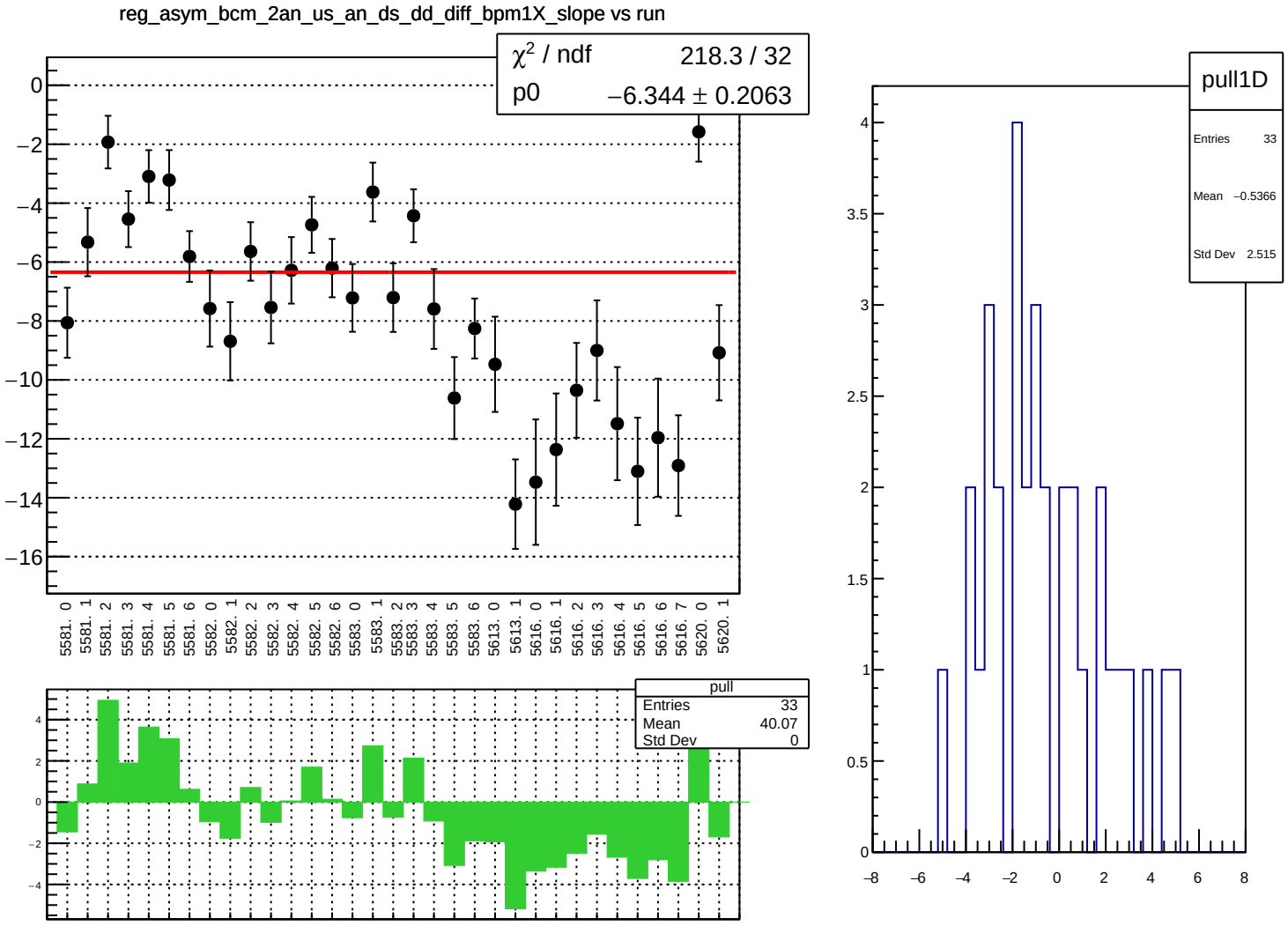

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 277 / 32
p0 13.7 ± 0.4703
pull
Entries 33
Mean 36.54
Std Dev 0
pull1D
Entries 33
Mean 0.8085
Std Dev 2.782

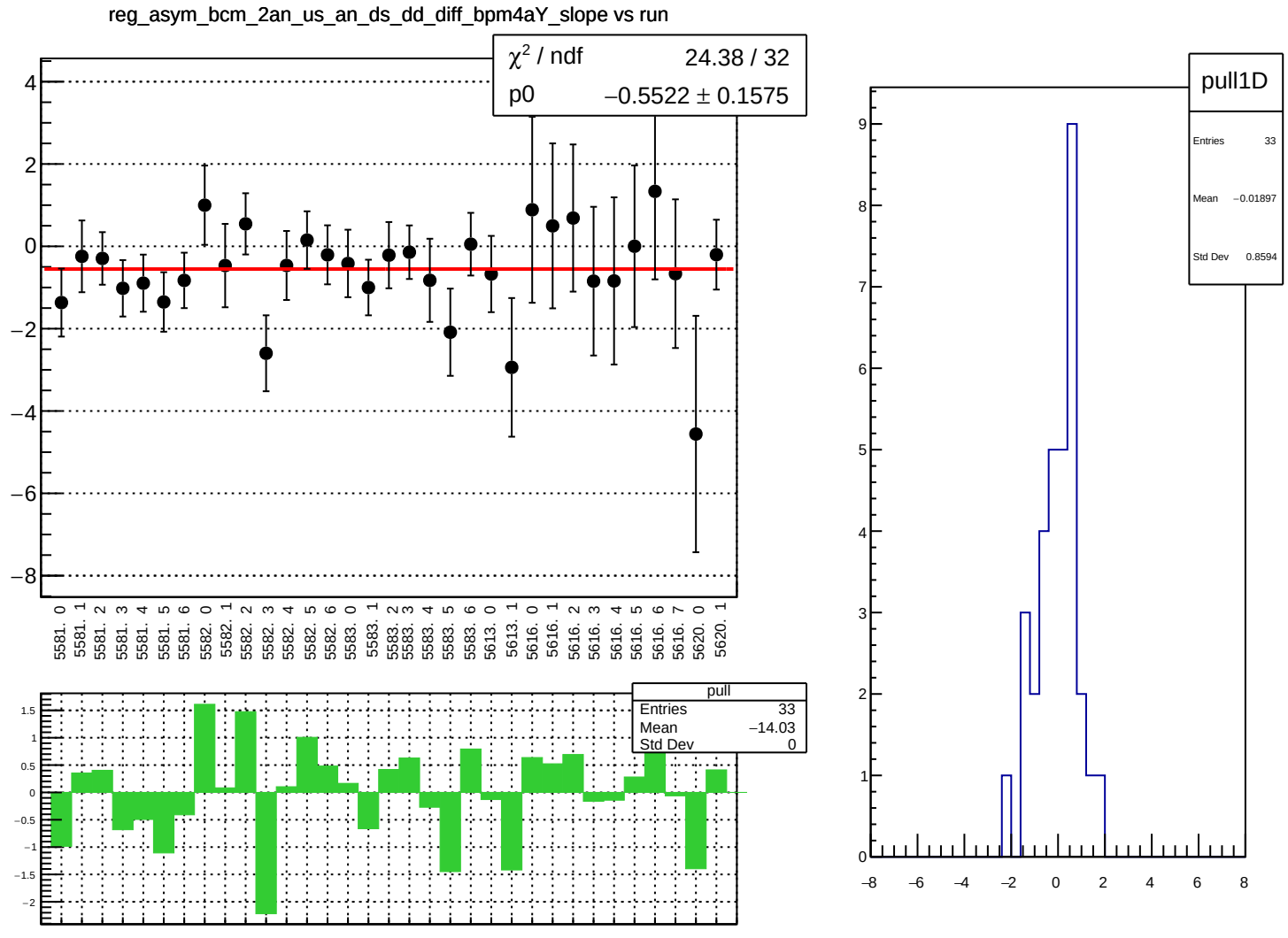

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.1 / 32
p0 1.753 ± 0.6078
pull
Entries 33
Mean 61.57
Std Dev 0

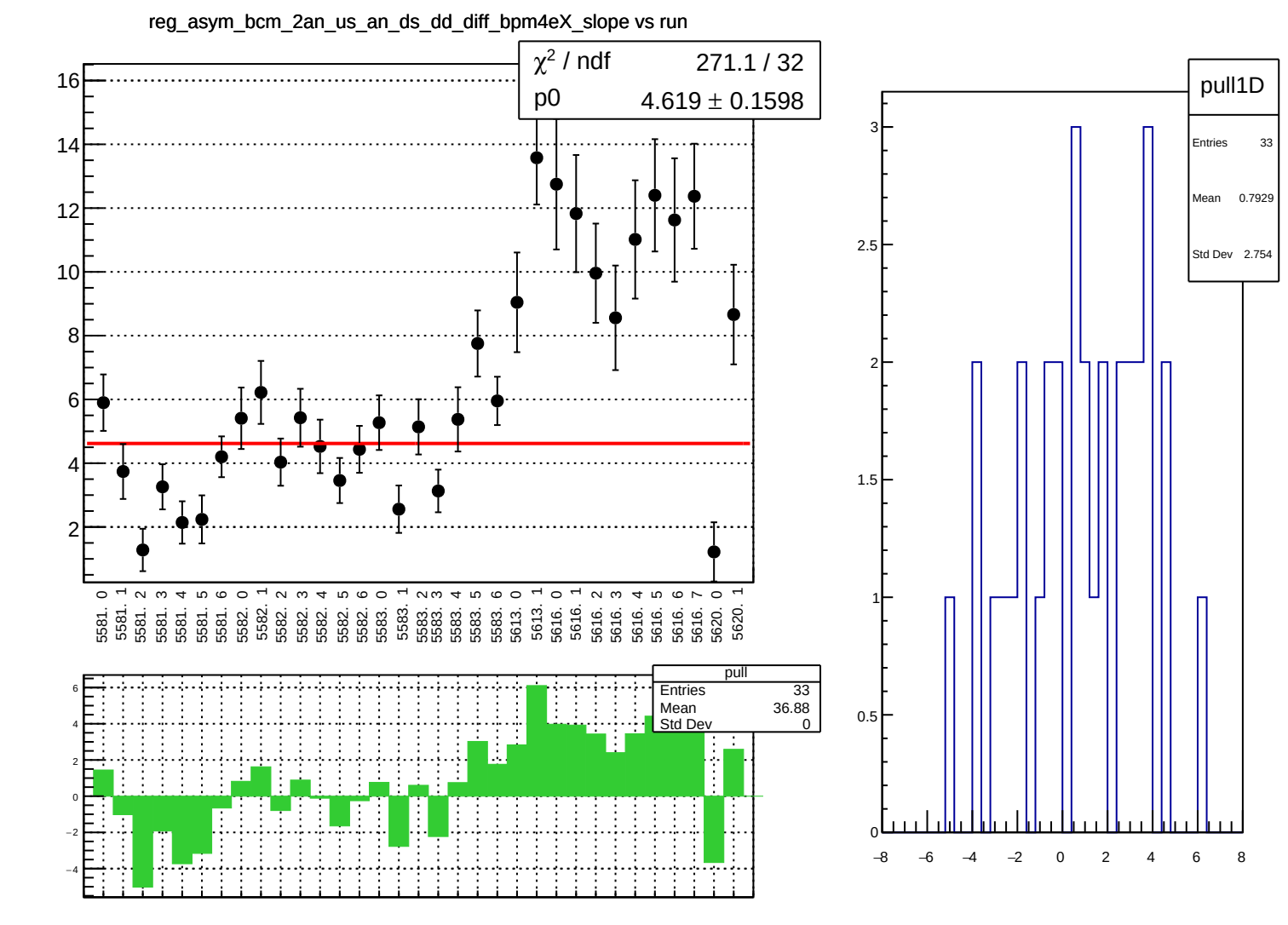

pull1D
Entries 33
Mean −0.0956
Std Dev 1.027

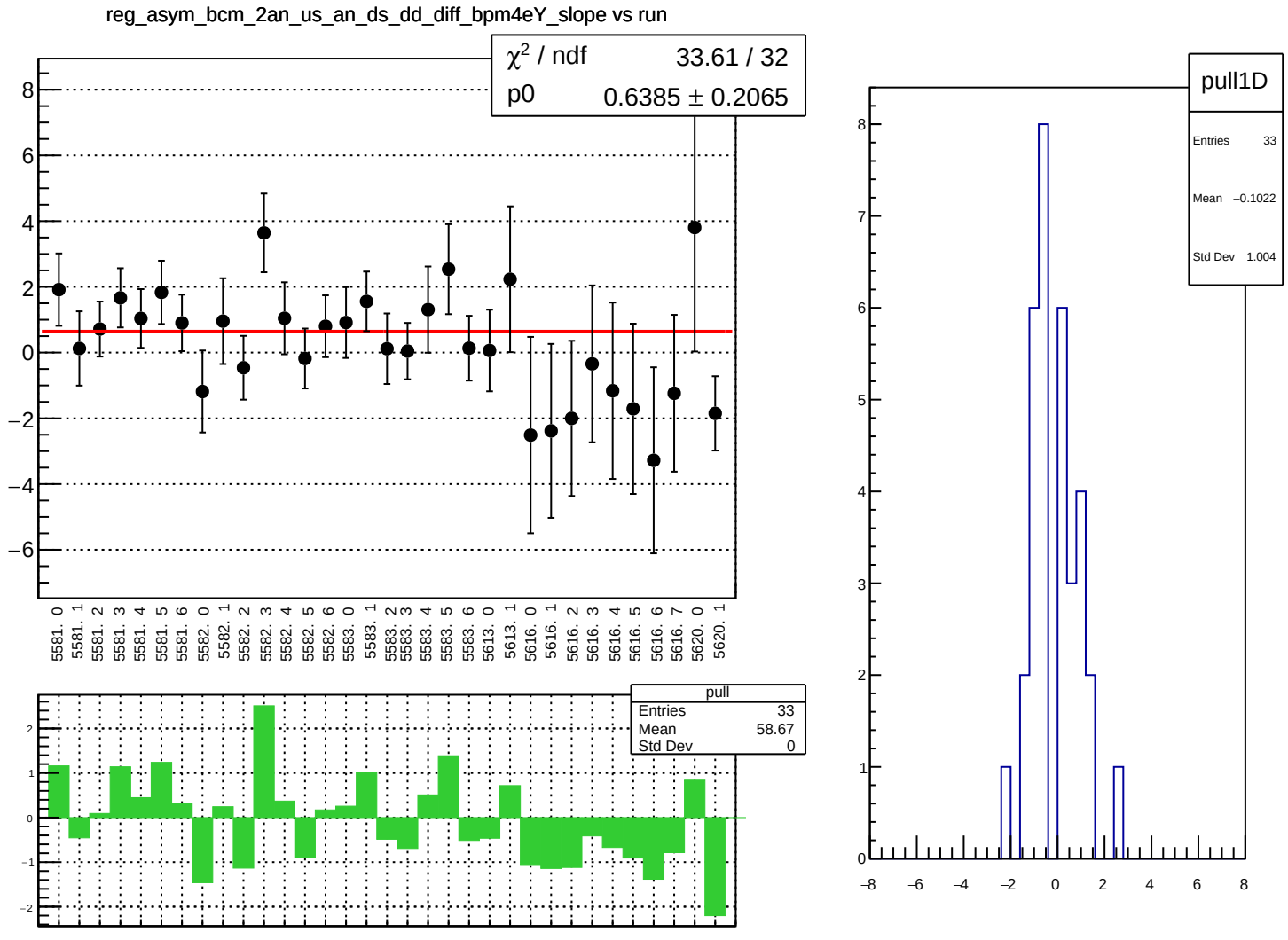

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 425.6 / 32
p0 −0.1192 ± 0.02417
pull
Entries 33
Mean 114.8
Std Dev 0

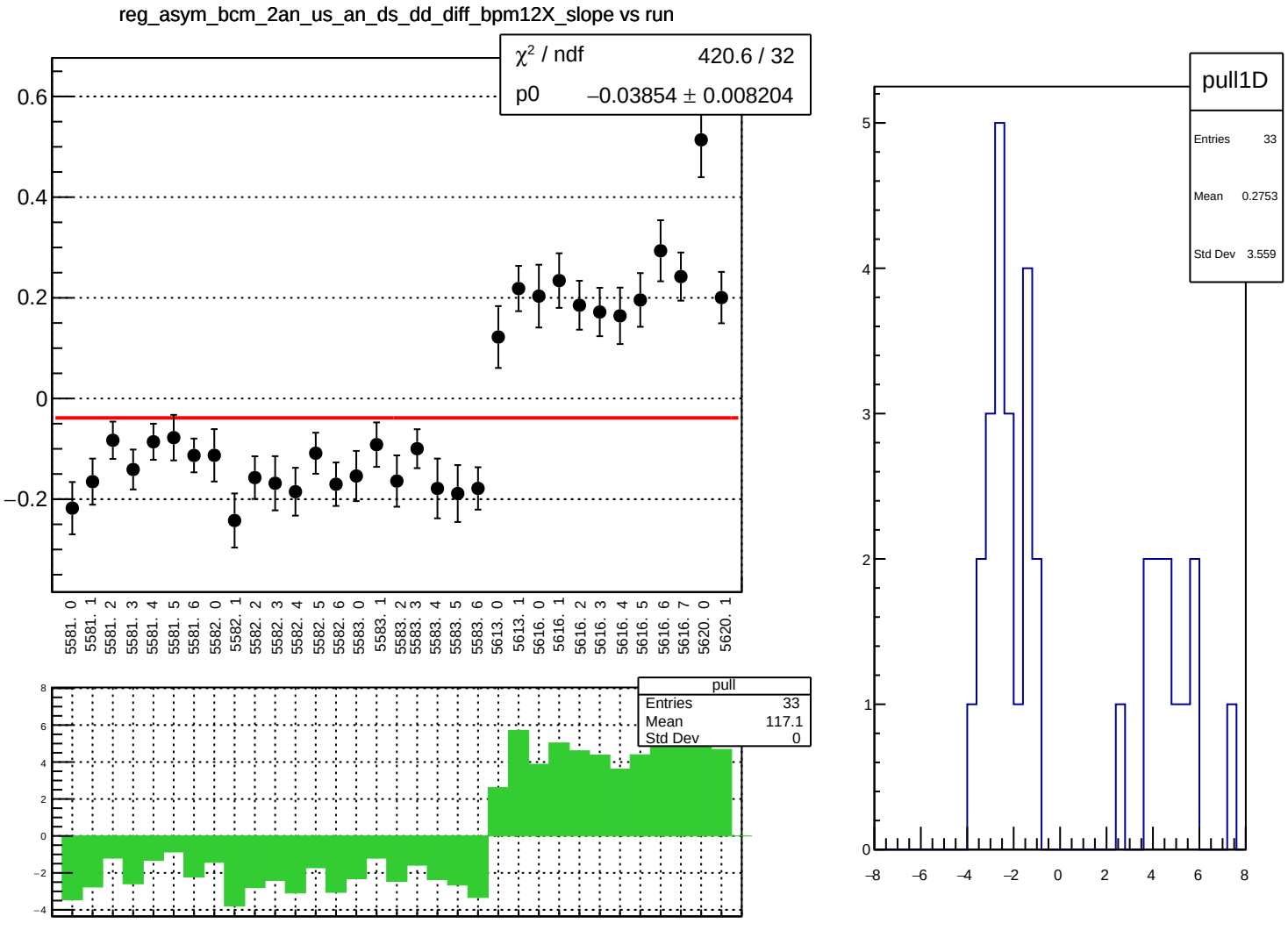

pull1D
Entries 33
Mean 0.2842
Std Dev 3.58

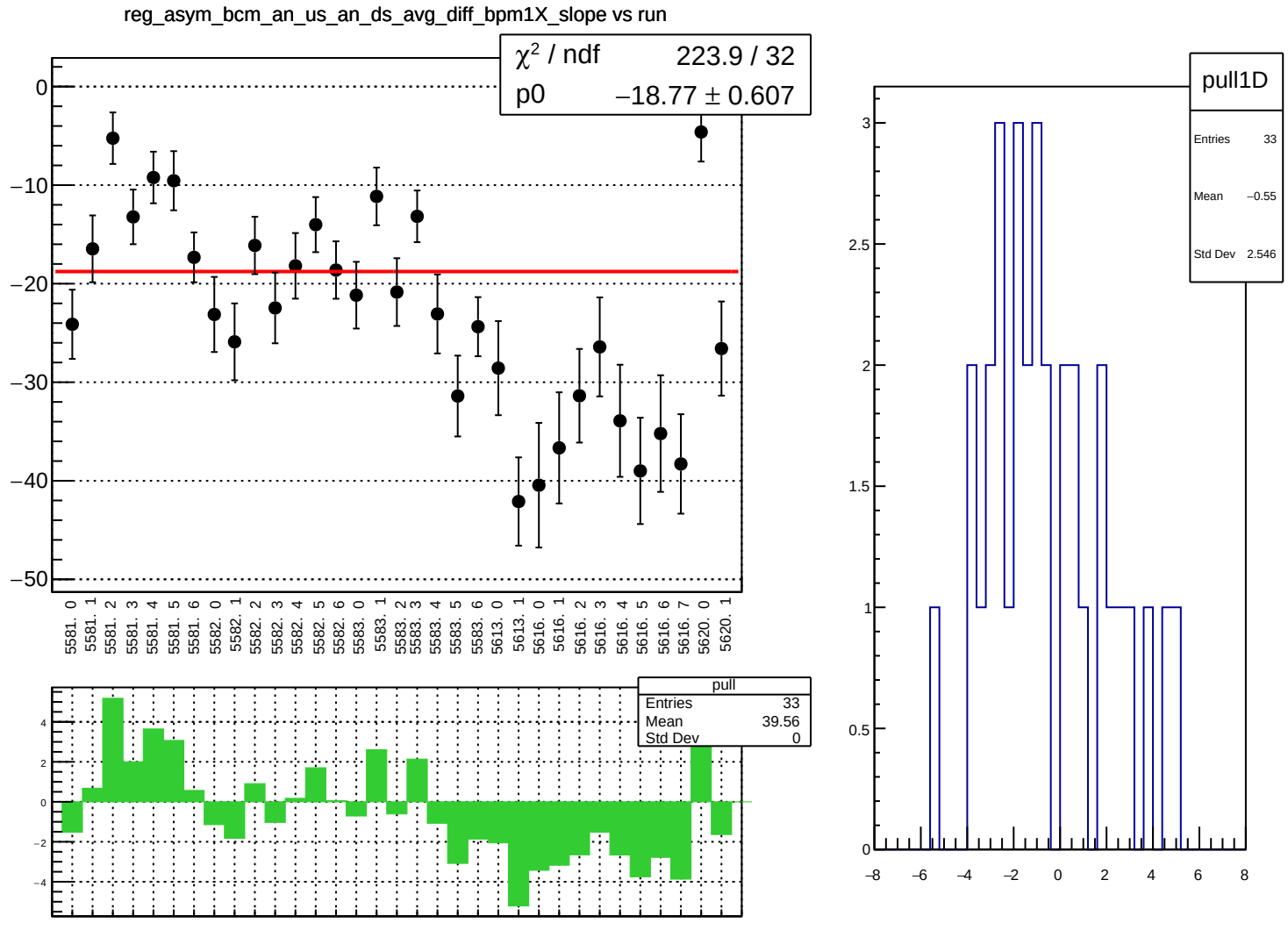

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 218.3 / 32
p0 −6.344 ± 0.2063
0
−2
−4
−6
−8
−10
−12
−14
−16
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 40.07
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 33
Mean −0.5366
Std Dev 2.515
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

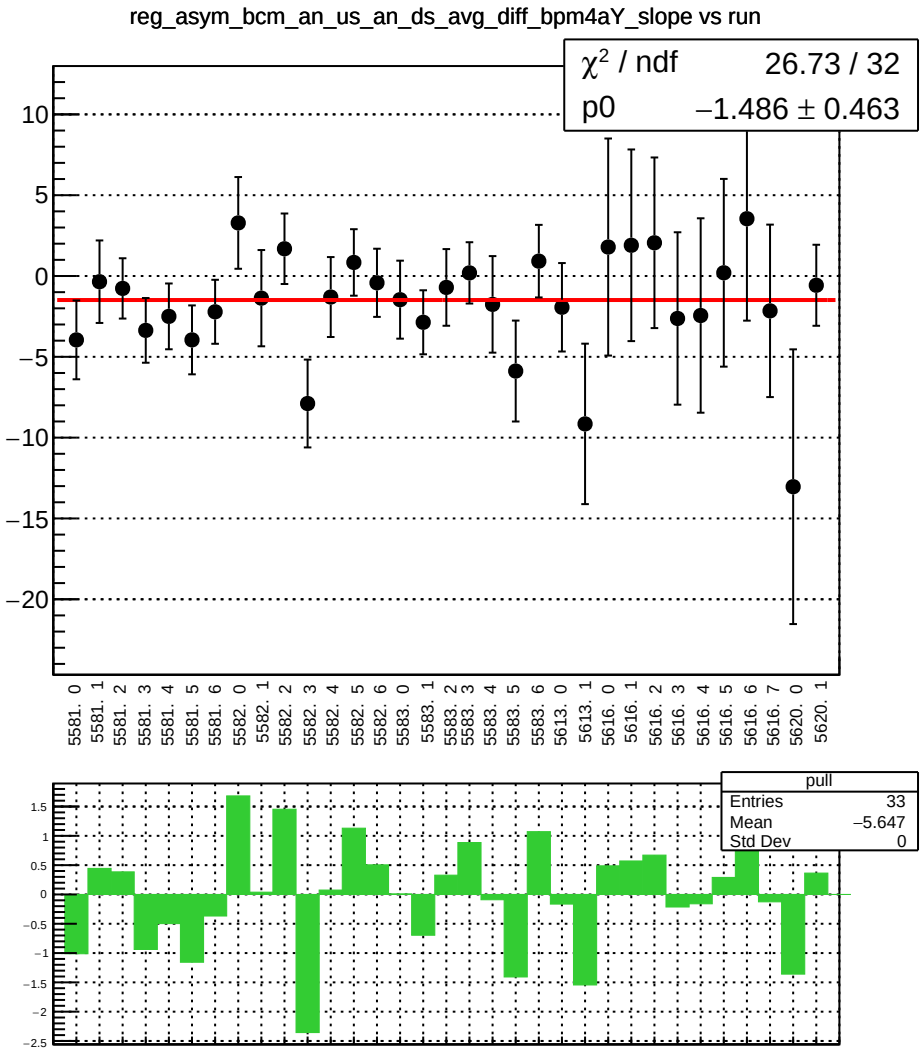

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.38 / 32
p0 −0.5522 ± 0.1575
4
2
0
−2
−4
−6
−8
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −14.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.01897
Std Dev 0.8594
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

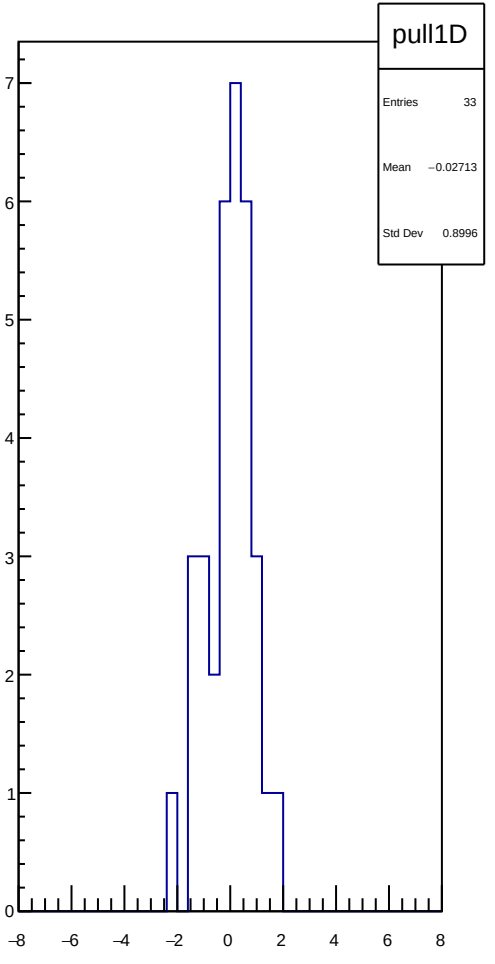

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 271.1 / 32
p0 4.619 ± 0.1598
pull
Entries 33
Mean 36.88
Std Dev 0
pull1D
Entries 33
Mean 0.7929
Std Dev 2.754

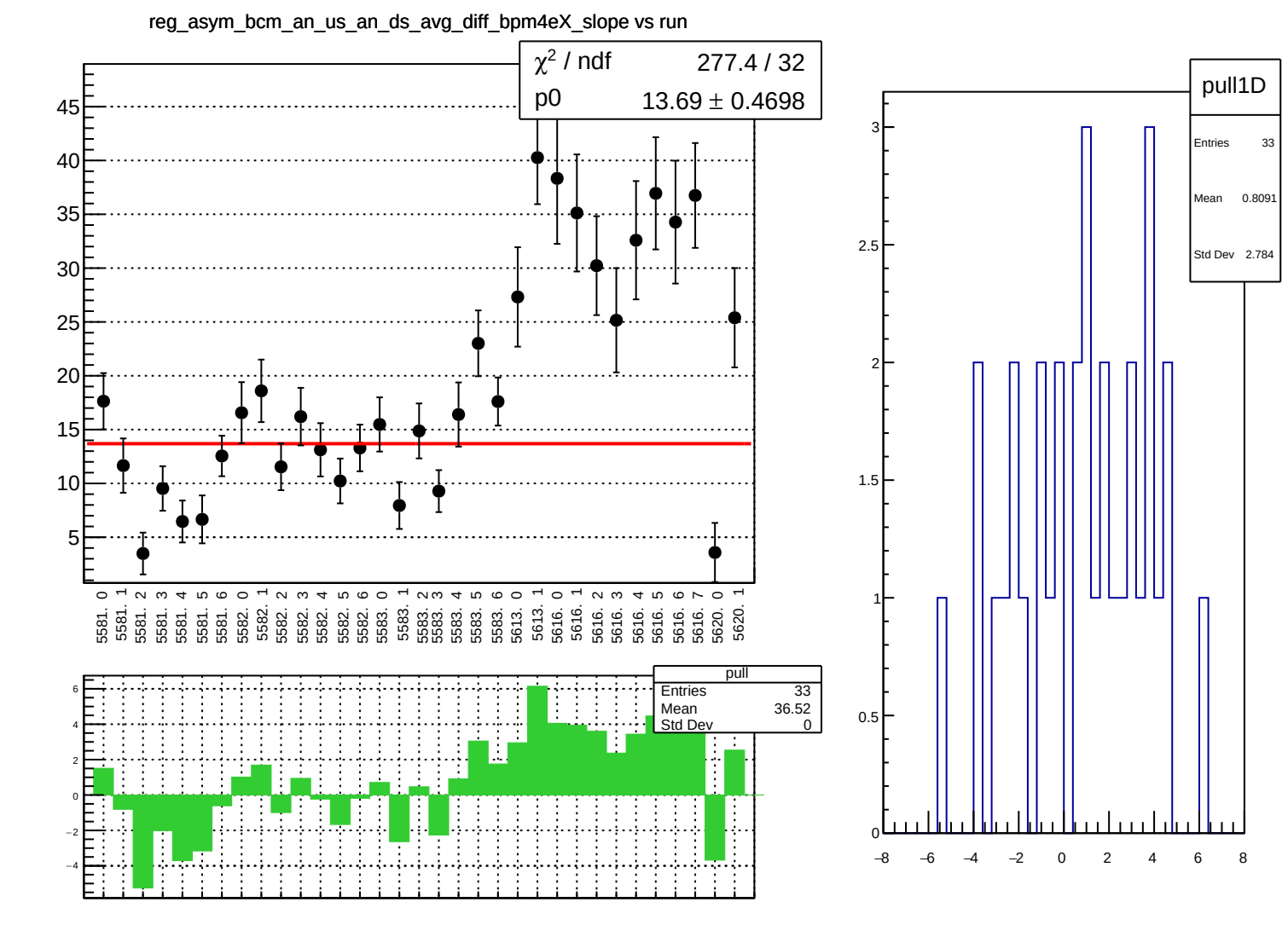

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.61 / 32
p0 0.6385 ± 0.2065
pull
Entries 33
Mean 58.67
Std Dev 0
pull1D
Entries 33
Mean −0.1022
Std Dev 1.004

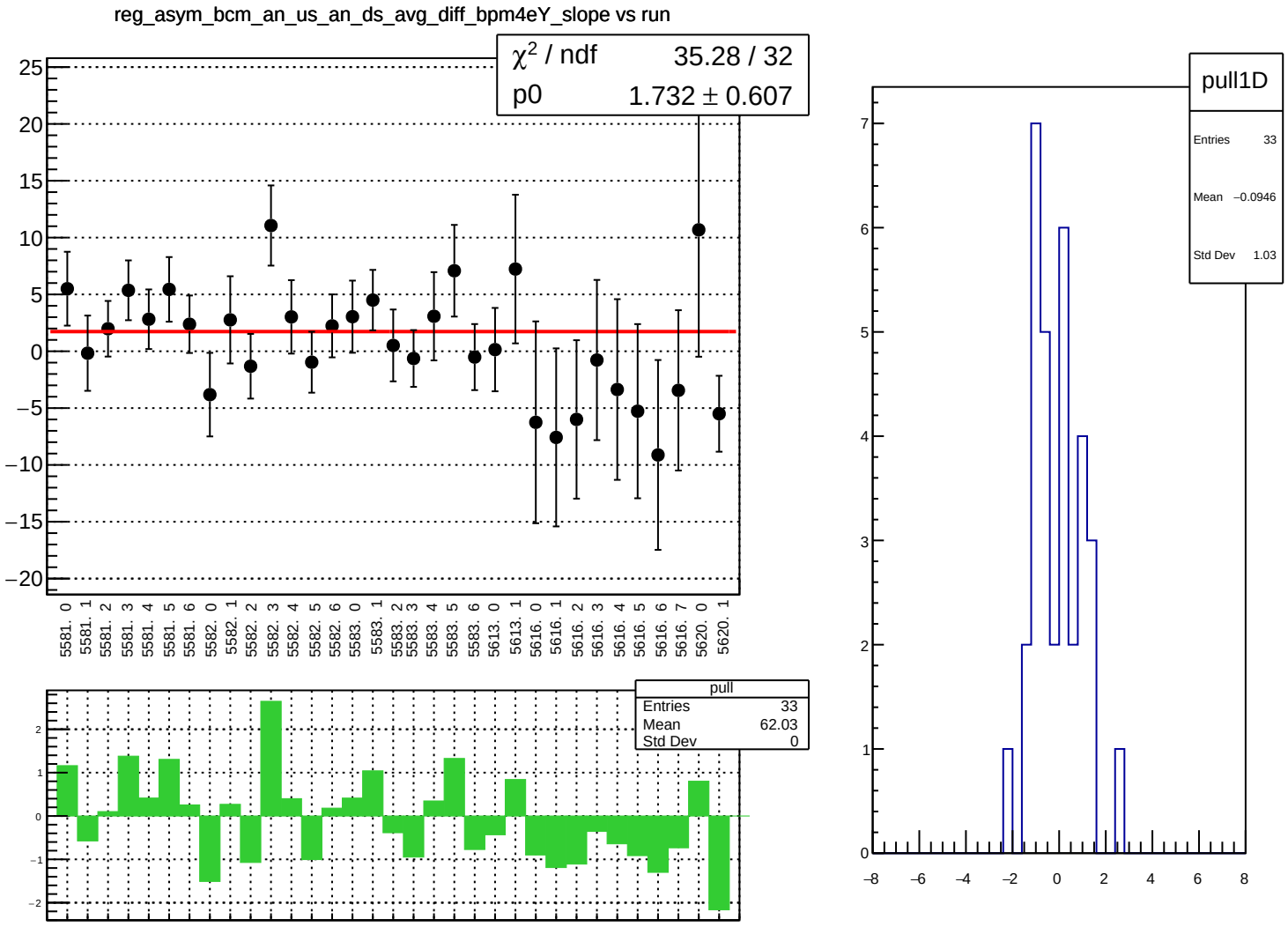

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 420.6 / 32
p0 −0.03854 ± 0.008204
0.6
0.4
0.2
0
−0.2
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 117.1
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 33
Mean 0.2753
Std Dev 3.559
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

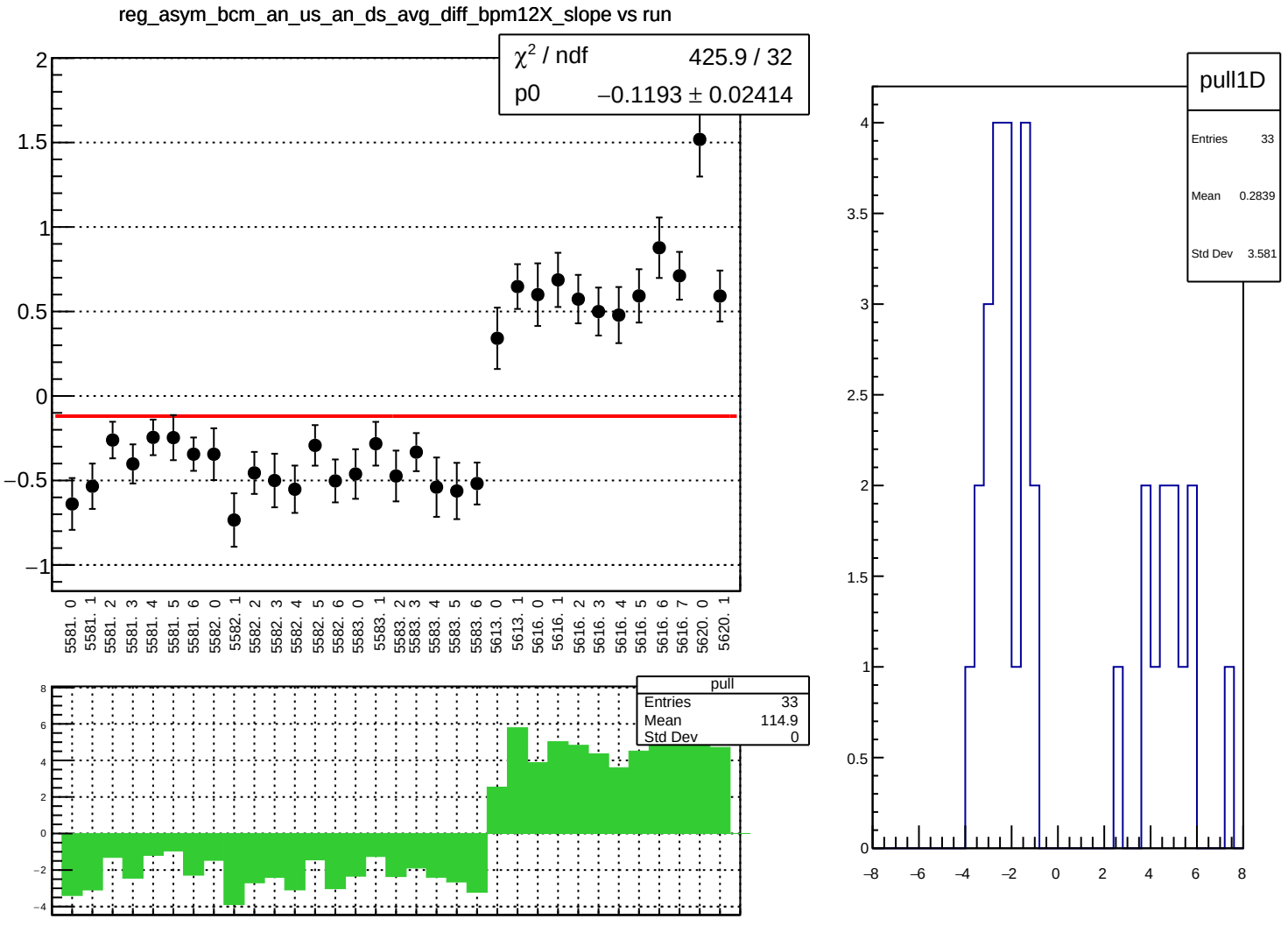

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 223.9 / 32
p0 −18.77 ± 0.607
0
−10
−20
−30
−40
−50
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 39.56
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 33
Mean −0.55
Std Dev 2.546
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

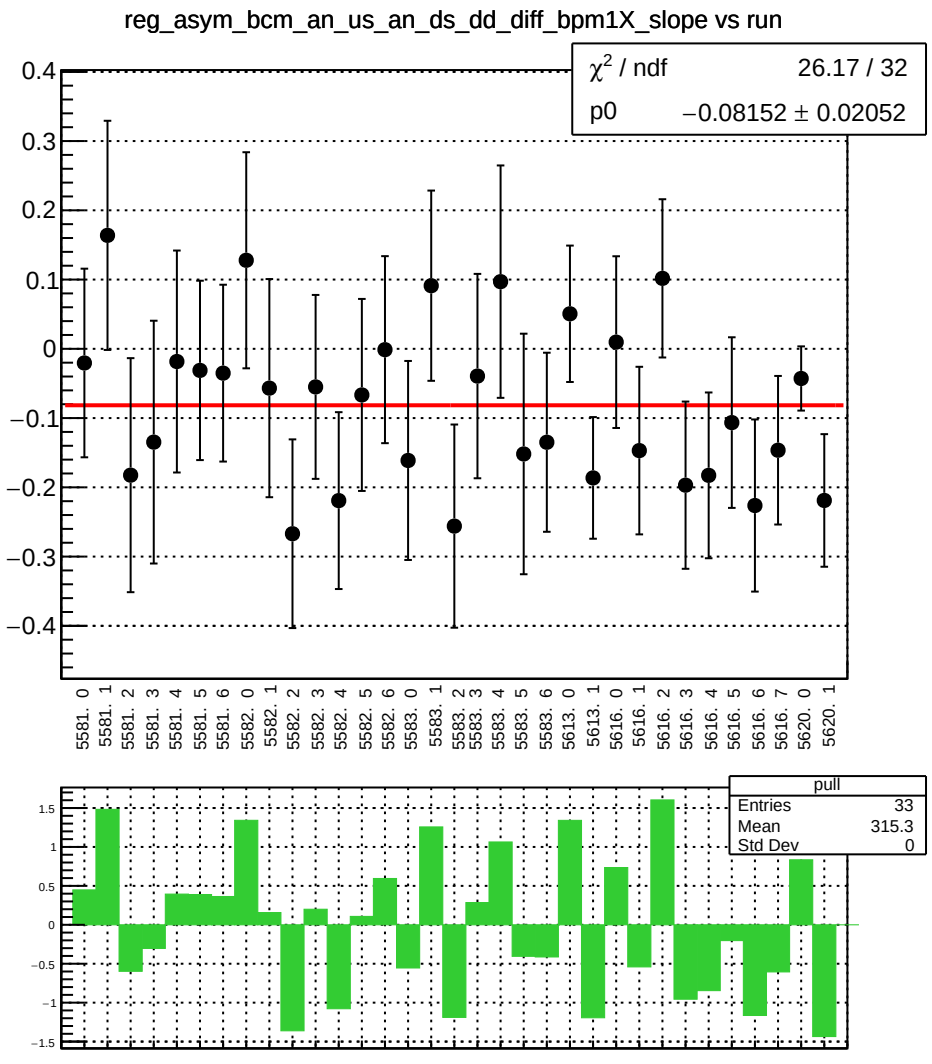

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.73 / 32
p0 −1.486 ± 0.463
10
5
0
−5
−10
−15
−20
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −5.647
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

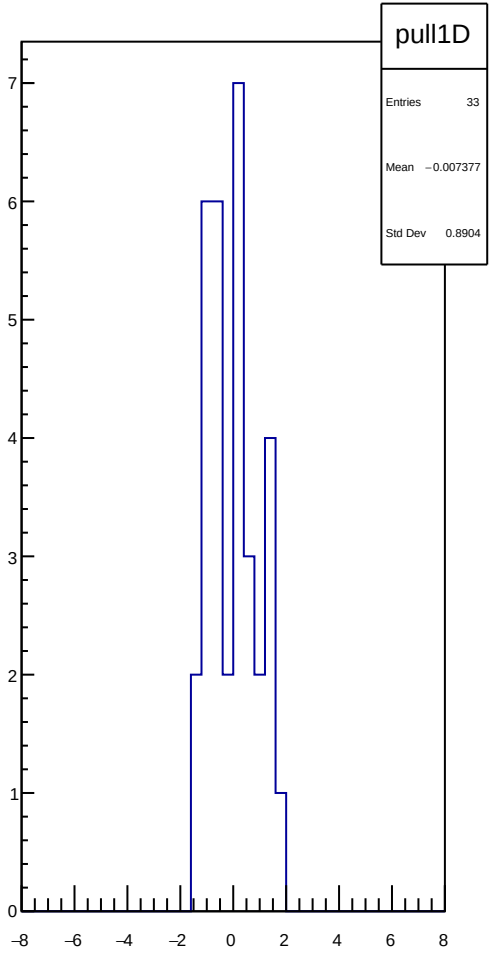

pull1D
Entries 33
Mean −0.02713
Std Dev 0.8996
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

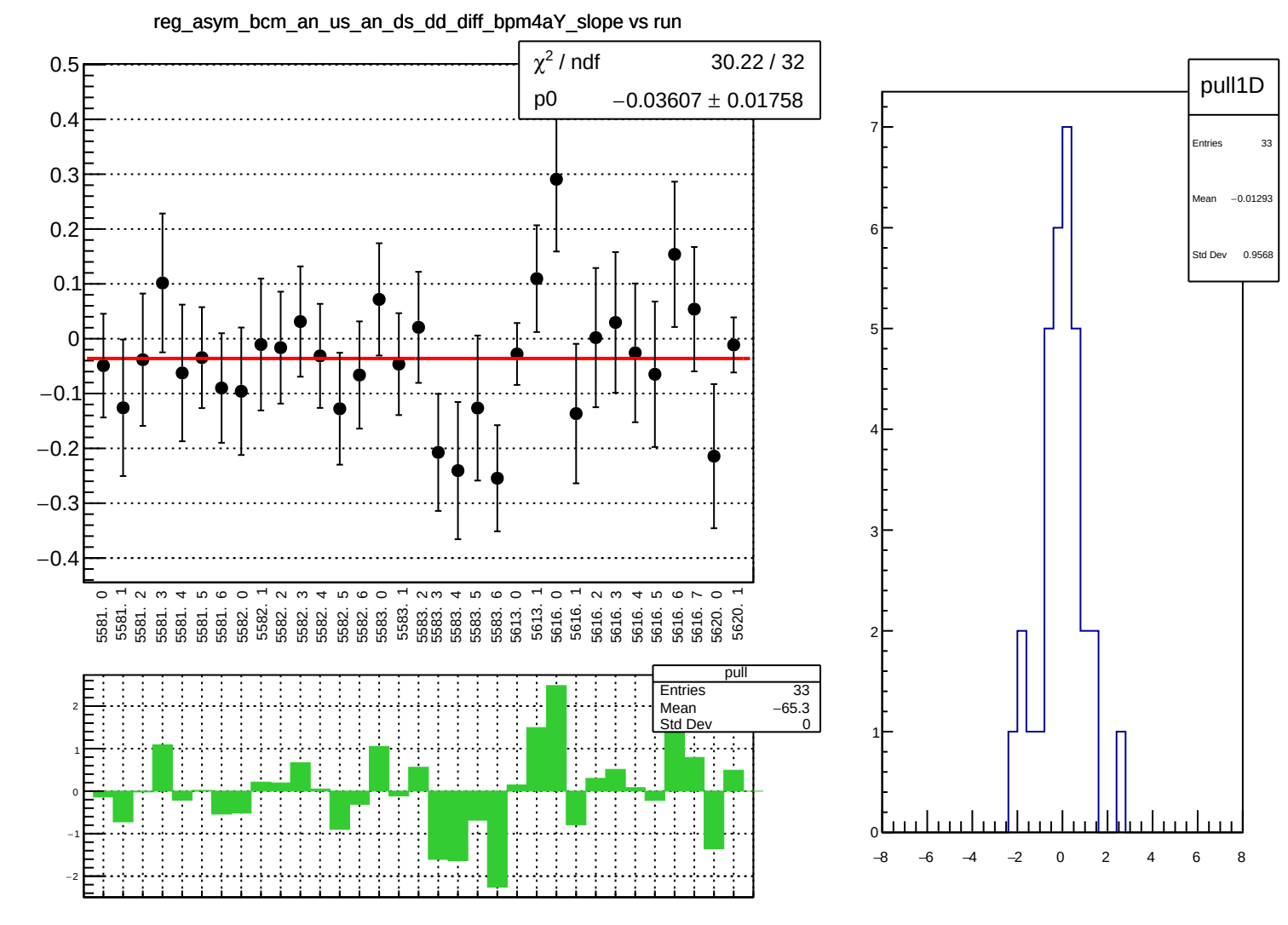

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 277.4 / 32
p0 13.69 ± 0.4698
pull
Entries 33
Mean 36.52
Std Dev 0
pull1D
Entries 33
Mean 0.8091
Std Dev 2.784

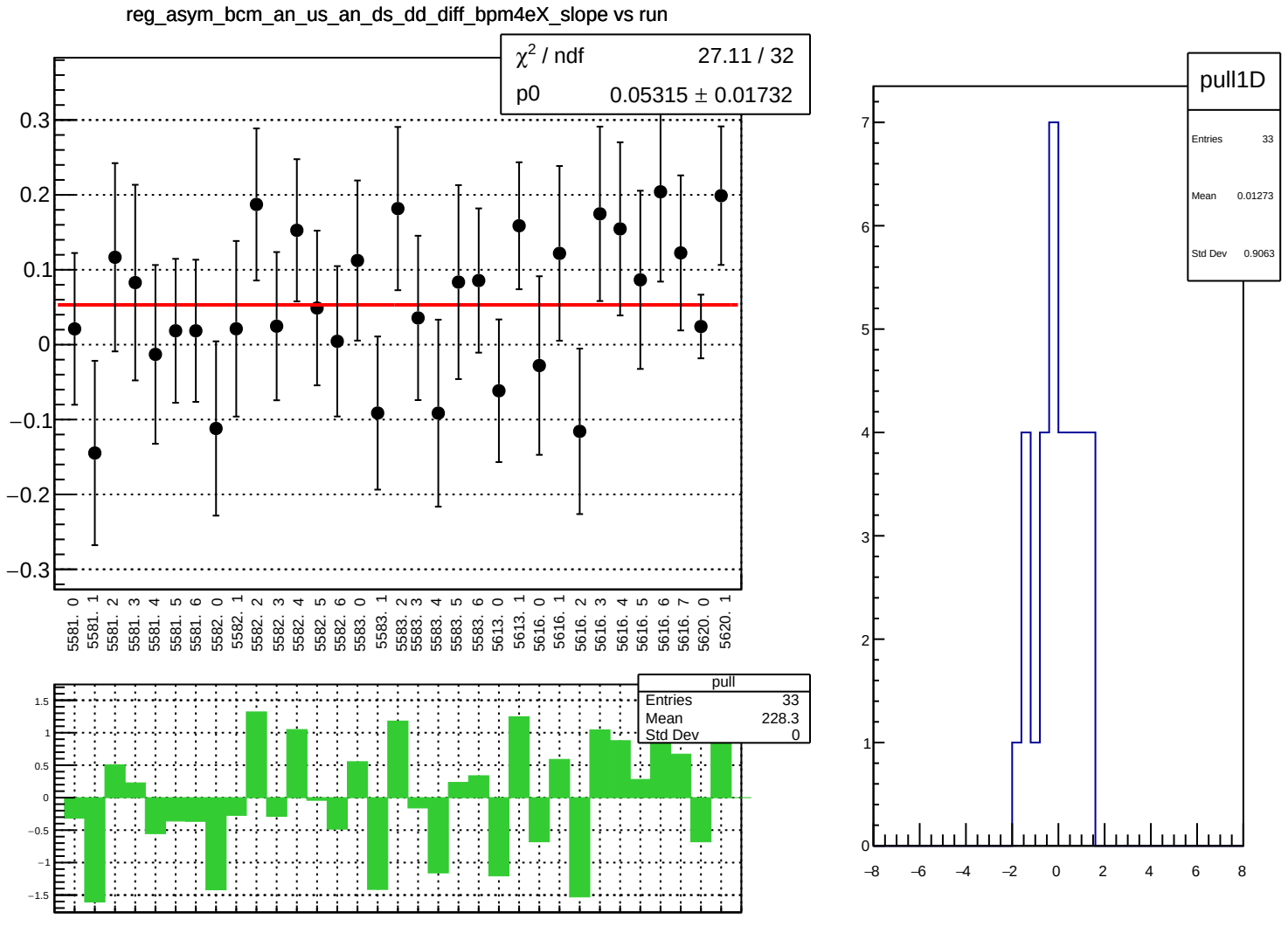

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.28 / 32
p0 1.732 ± 0.607
pull
Entries 33
Mean 62.03
Std Dev 0
pull1D
Entries 33
Mean −0.0946
Std Dev 1.03

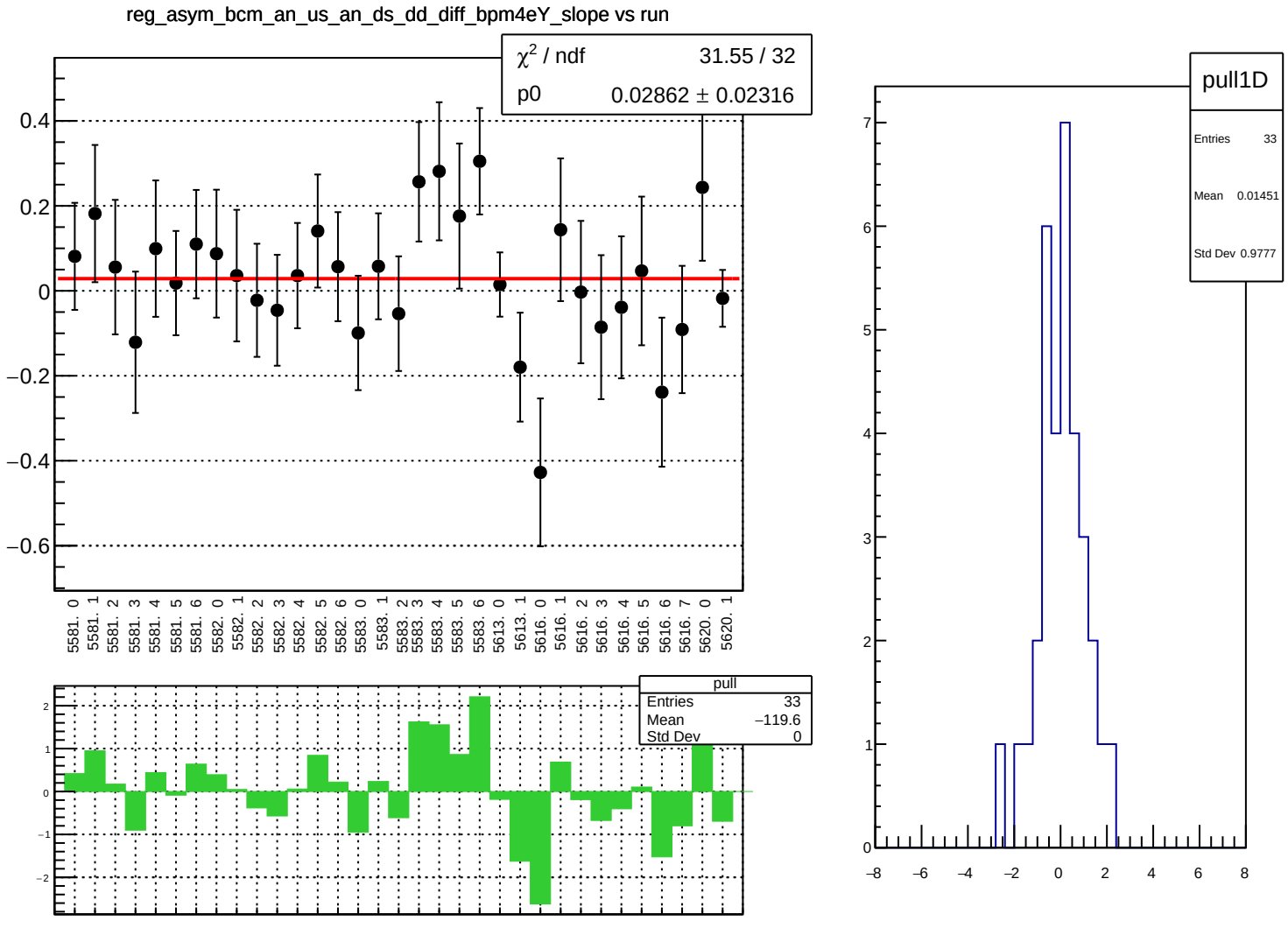

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 425.9 / 32
p0 −0.1193 ± 0.02414
2
1.5
1
0.5
0
−0.5
−1
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 114.9
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 33
Mean 0.2839
Std Dev 3.581
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

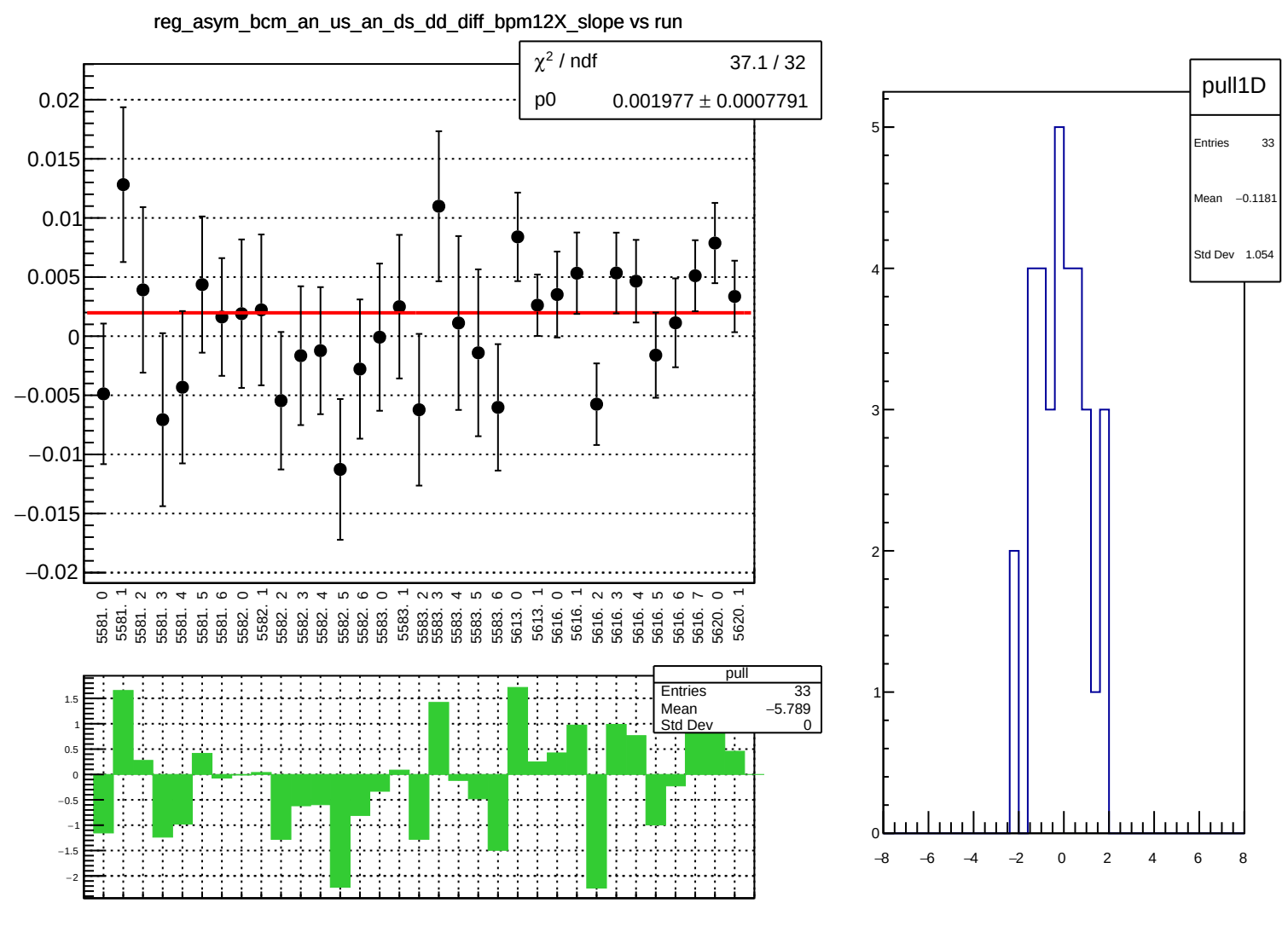

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 26.17 / 32
p0 −0.08152 ± 0.02052
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 315.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

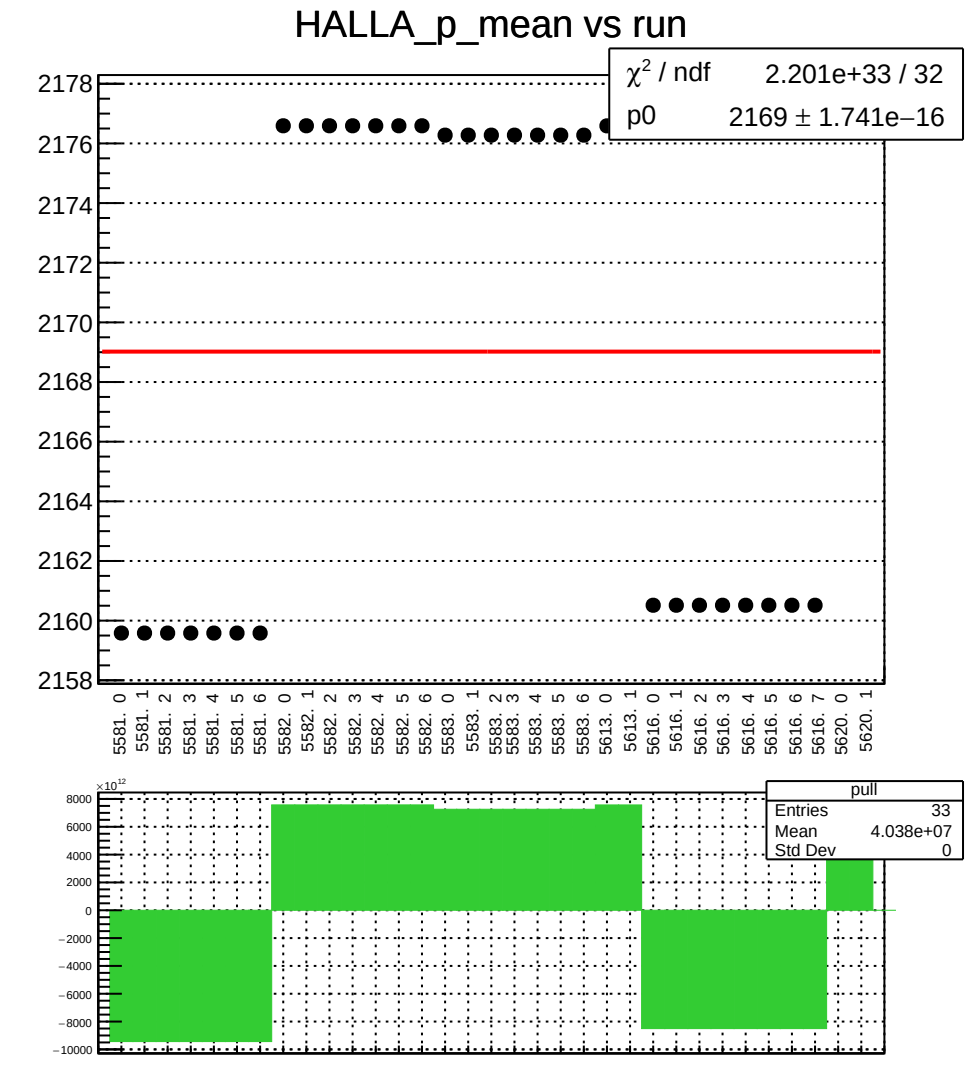

pull1D
Entries 33
Mean −0.007377
Std Dev 0.8904
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

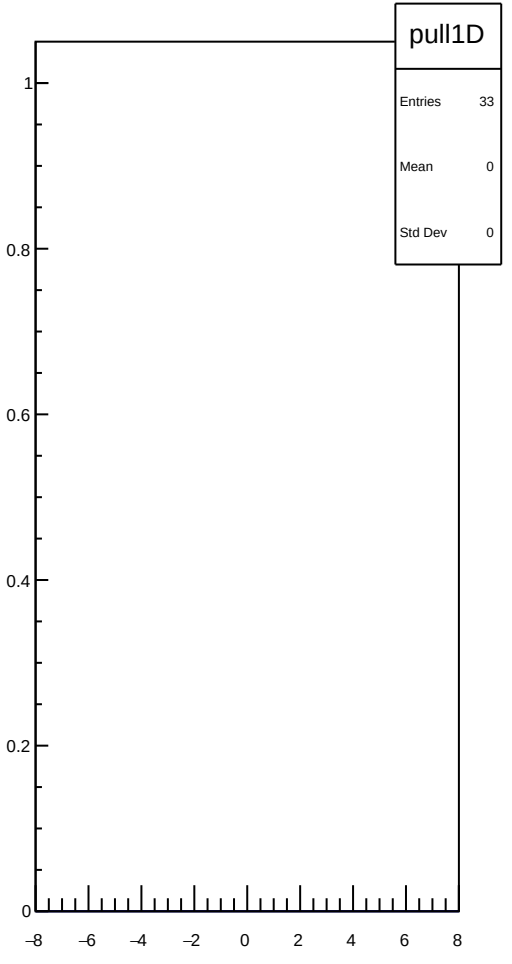

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.22 / 32
p0 −0.03607 ± 0.01758
pull
Entries 33
Mean −65.3
Std Dev 0
pull1D
Entries 33
Mean −0.01293
Std Dev 0.9568

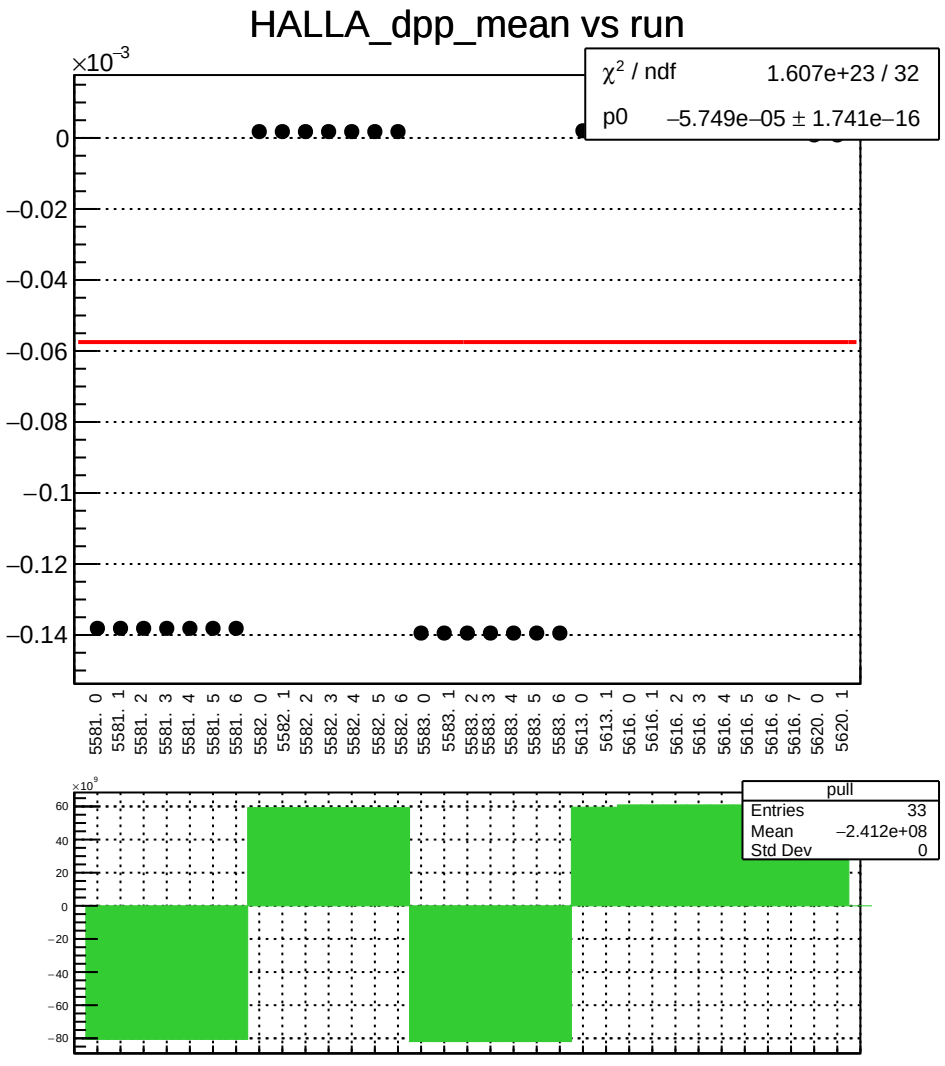

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.11 / 32
p0 0.05315 ± 0.01732
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 228.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 33
Mean 0.01273
Std Dev 0.9063
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

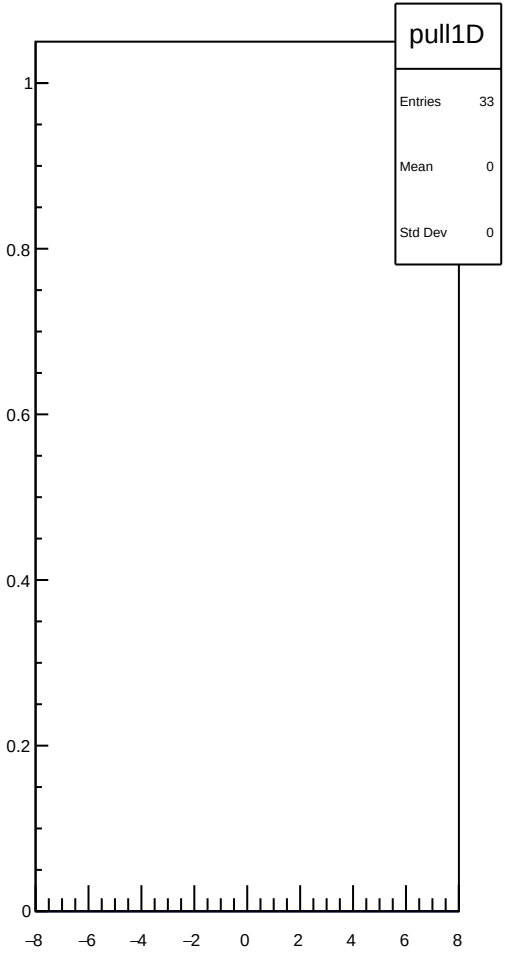

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.55 / 32
p0 0.02862 ± 0.02316
0.4
0.2
0
−0.2
−0.4
−0.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −119.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 33
Mean 0.01451
Std Dev 0.9777
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

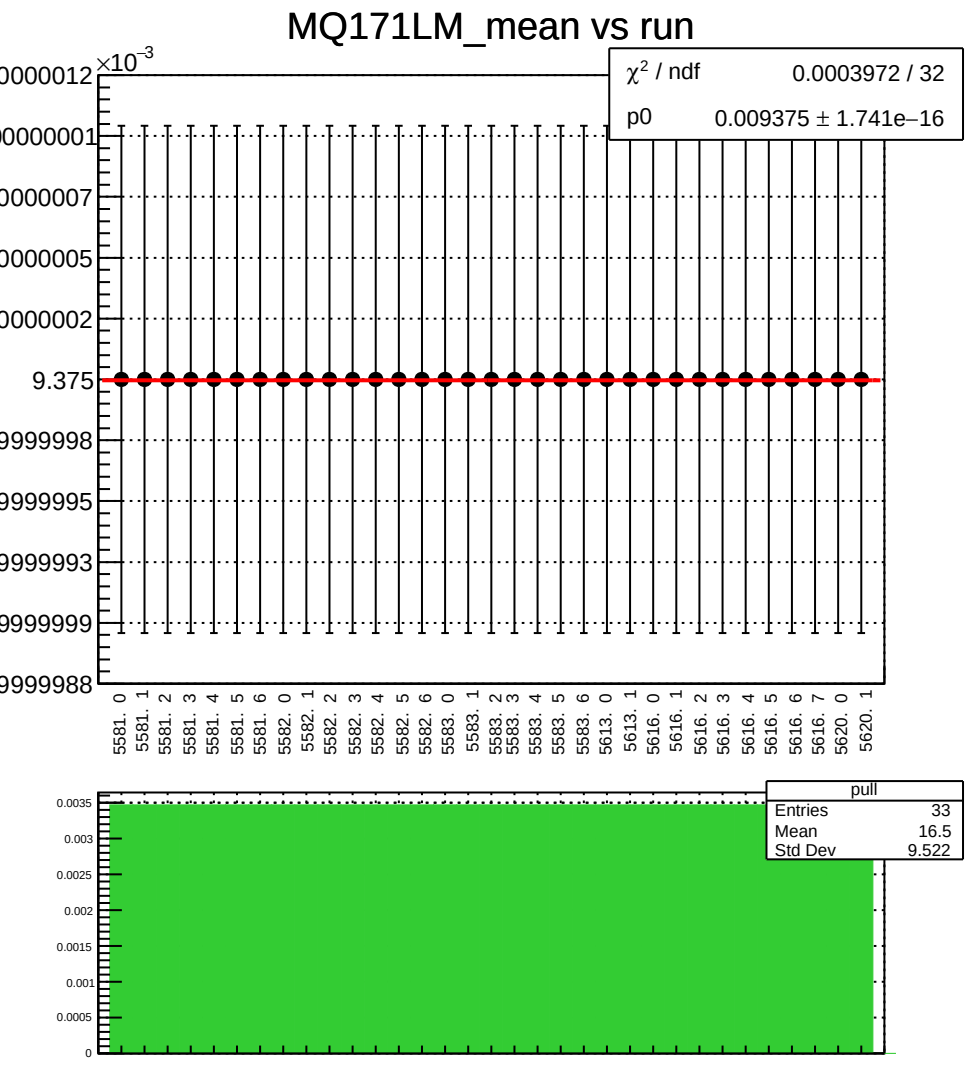

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 37.1 / 32
p0 0.001977 ± 0.0007791
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean −5.789
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 33
Mean −0.1181
Std Dev 1.054
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

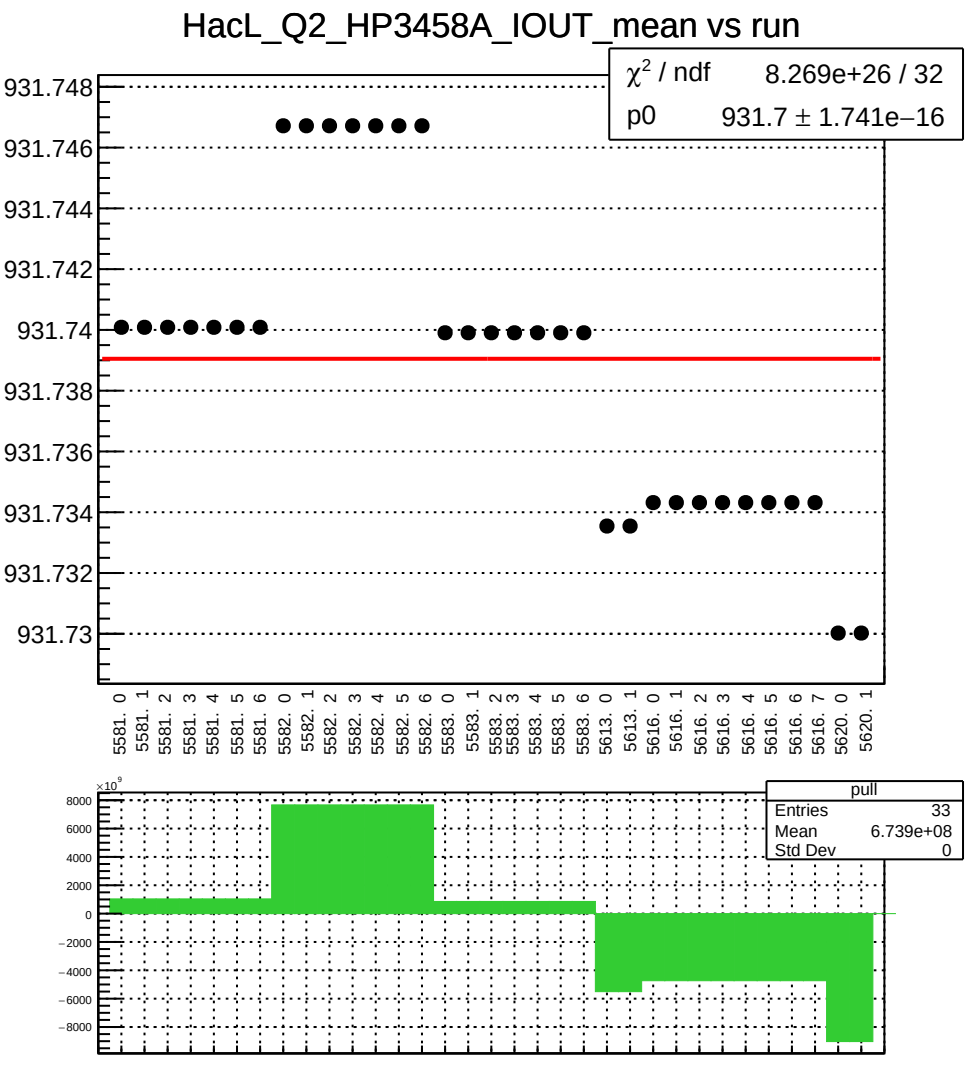

HALLA_p_mean vs run
χ² / ndf 2.201e+33 / 32
p0 2169 ± 1.741e−16
2178
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
×10¹²
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 33
Mean 4.038e+07
Std Dev 0

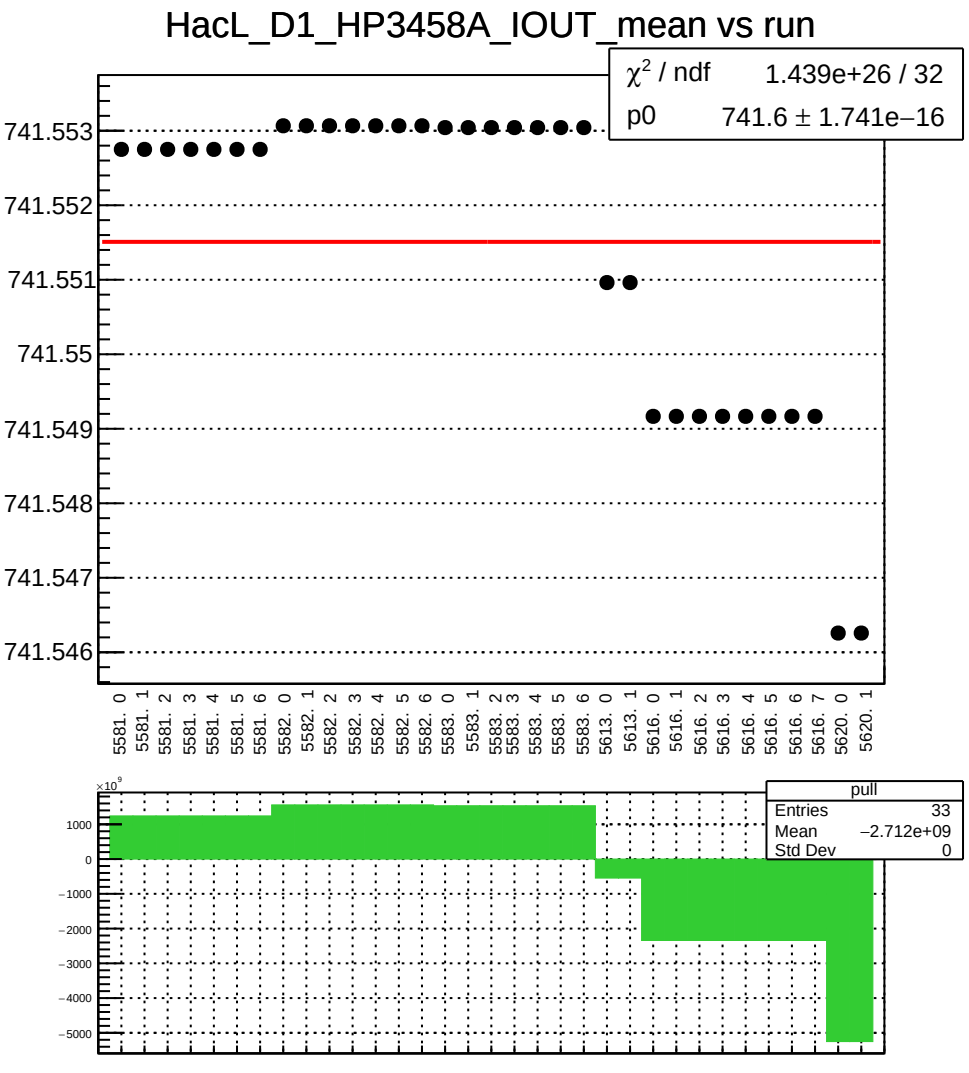

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

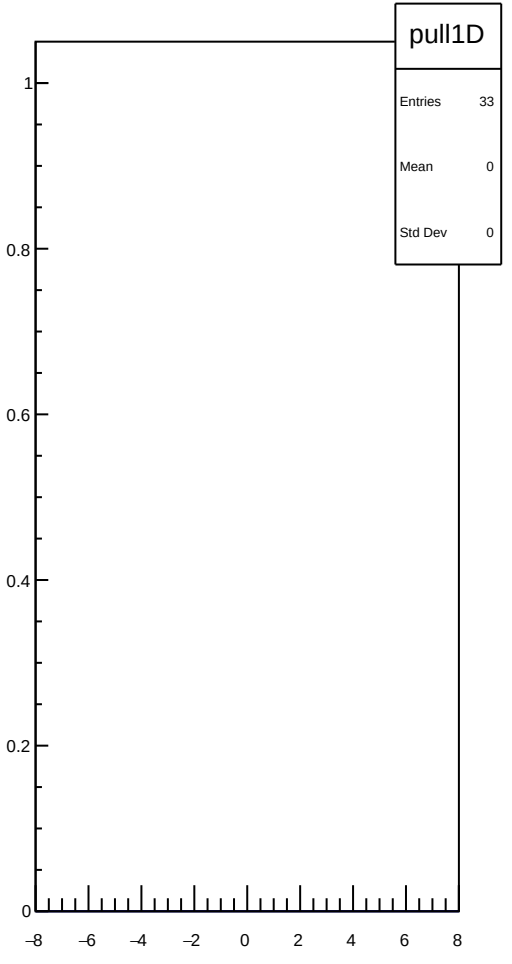

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.607e+23 / 32
p0 −5.749e−05 ± 1.741e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
×10⁹
60
40
20
0
−20
−40
−60
−80
pull
Entries 33
Mean −2.412e+08
Std Dev 0

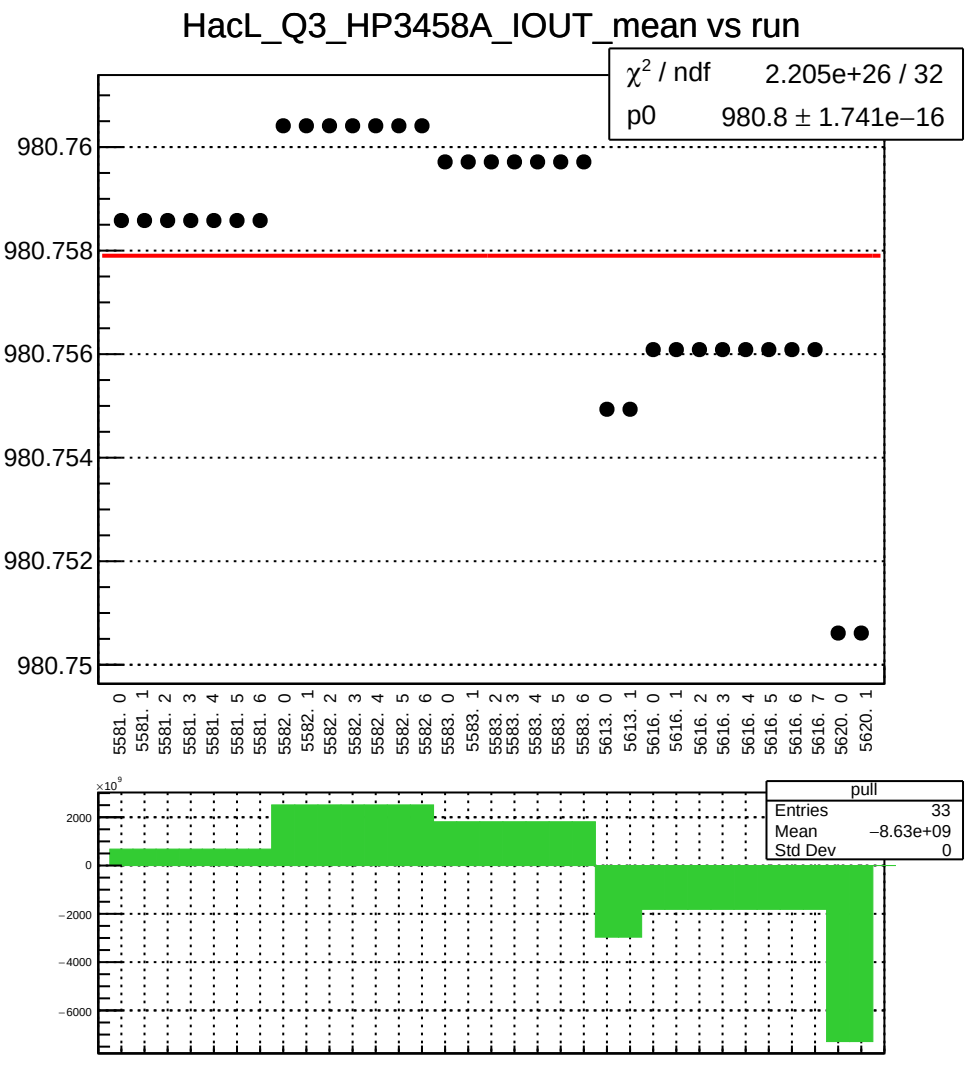

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

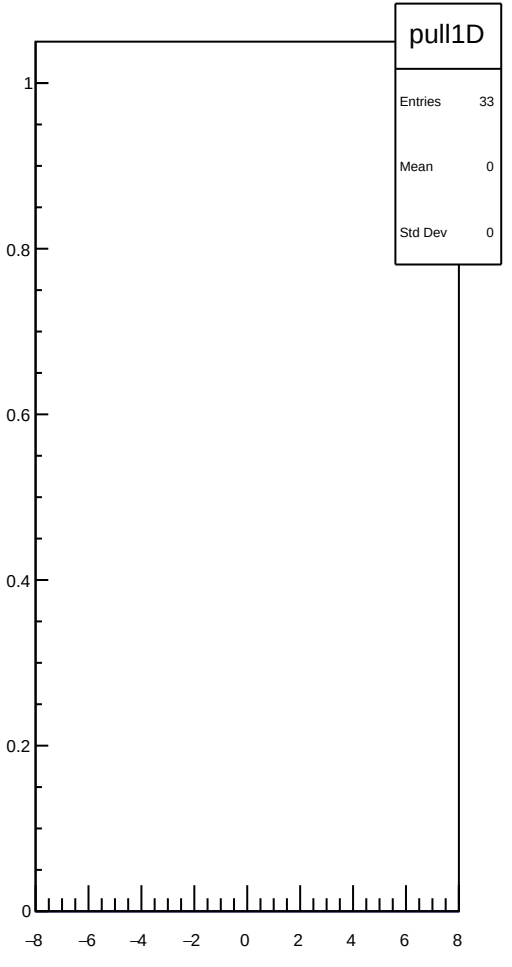

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.0003972 / 32
p0 0.009375 ± 1.741e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.5
Std Dev 9.522
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
pull1D
Entries 33
Mean 0.003469
Std Dev 0
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

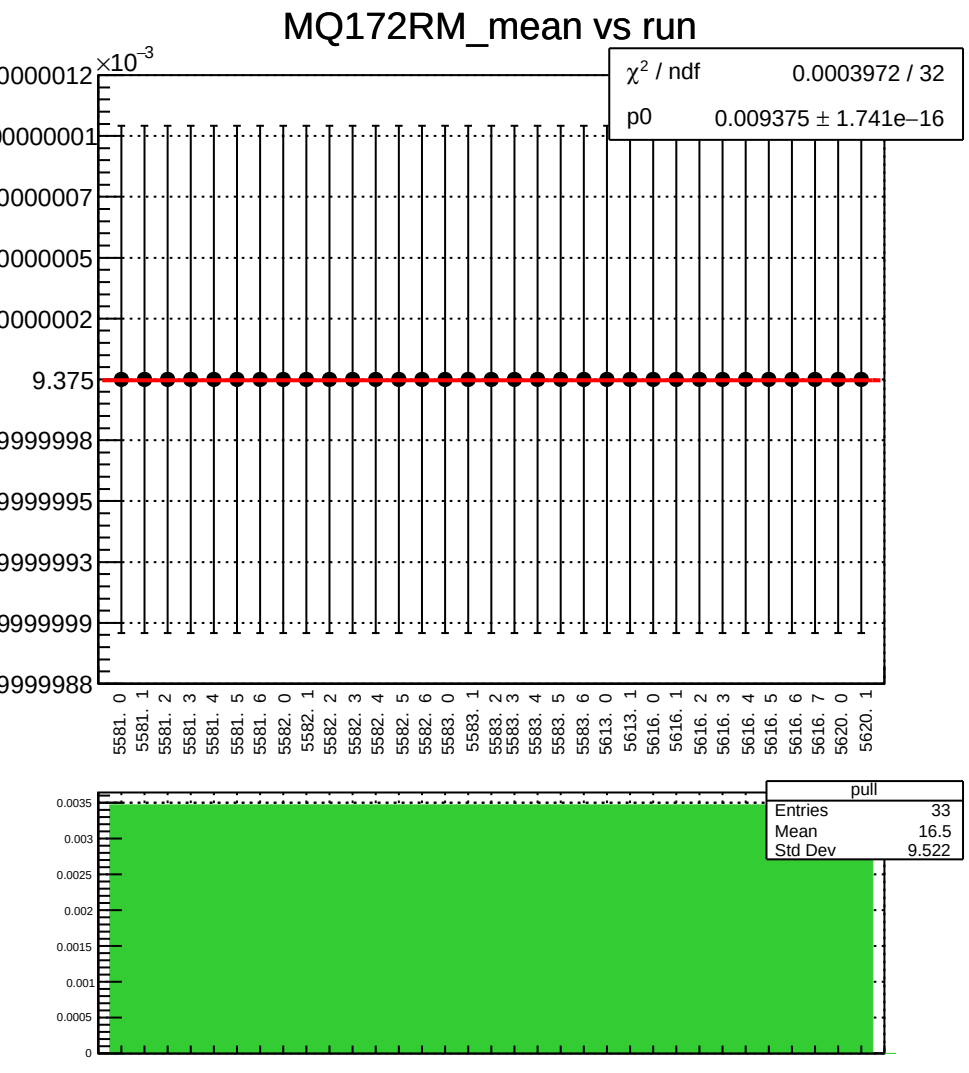

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.269e+26 / 32
p0 931.7 ± 1.741e−16
931.748
931.746
931.744
931.742
931.74
931.738
931.736
931.734
931.732
931.73
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
×10⁹
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 33
Mean 6.739e+08
Std Dev 0
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

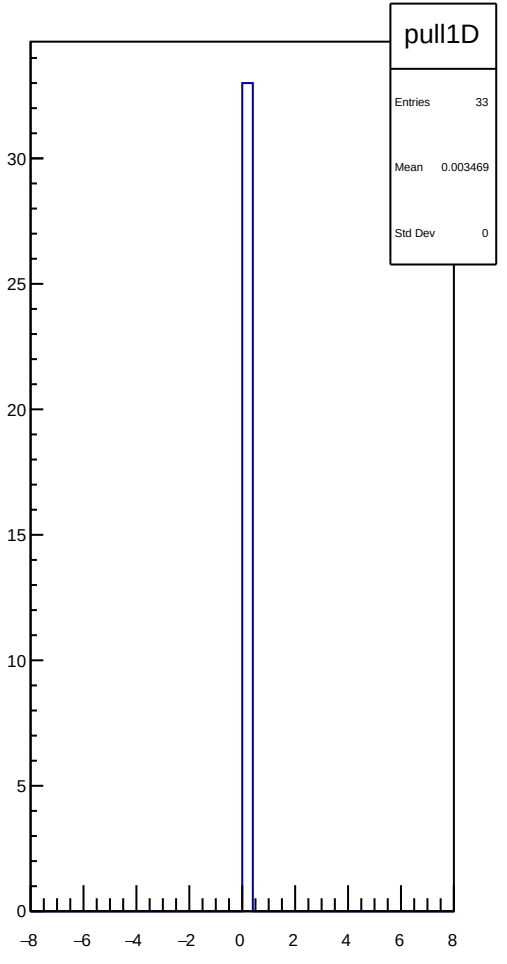

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.439e+26 / 32
p0 741.6 ± 1.741e−16
741.553
741.552
741.551
741.55
741.549
741.548
741.547
741.546
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
×10⁹
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 33
Mean −2.712e+09
Std Dev 0

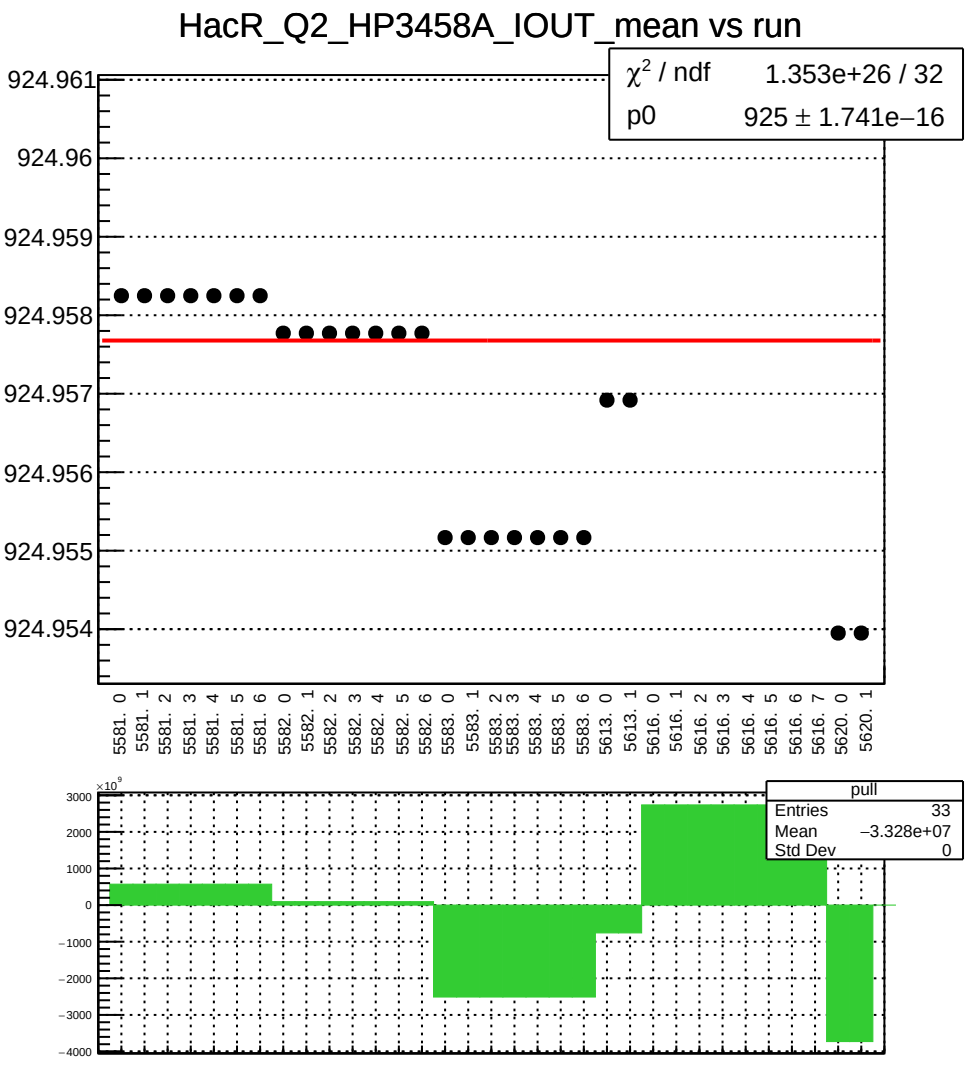

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

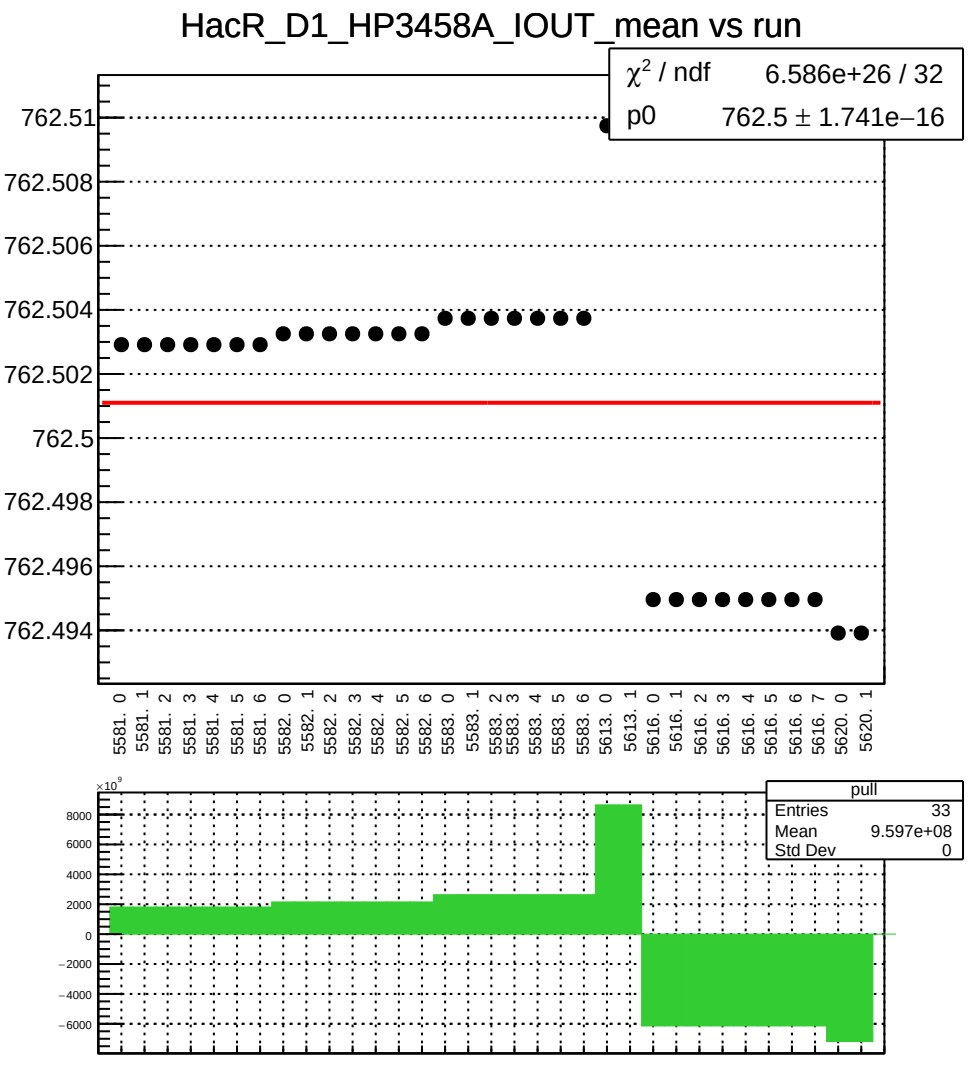

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.205e+26 / 32
p0 980.8 ± 1.741e−16
980.76
980.758
980.756
980.754
980.752
980.75
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
×10⁹
2000
0
−2000
−4000
−6000
pull
Entries 33
Mean −8.63e+09
Std Dev 0

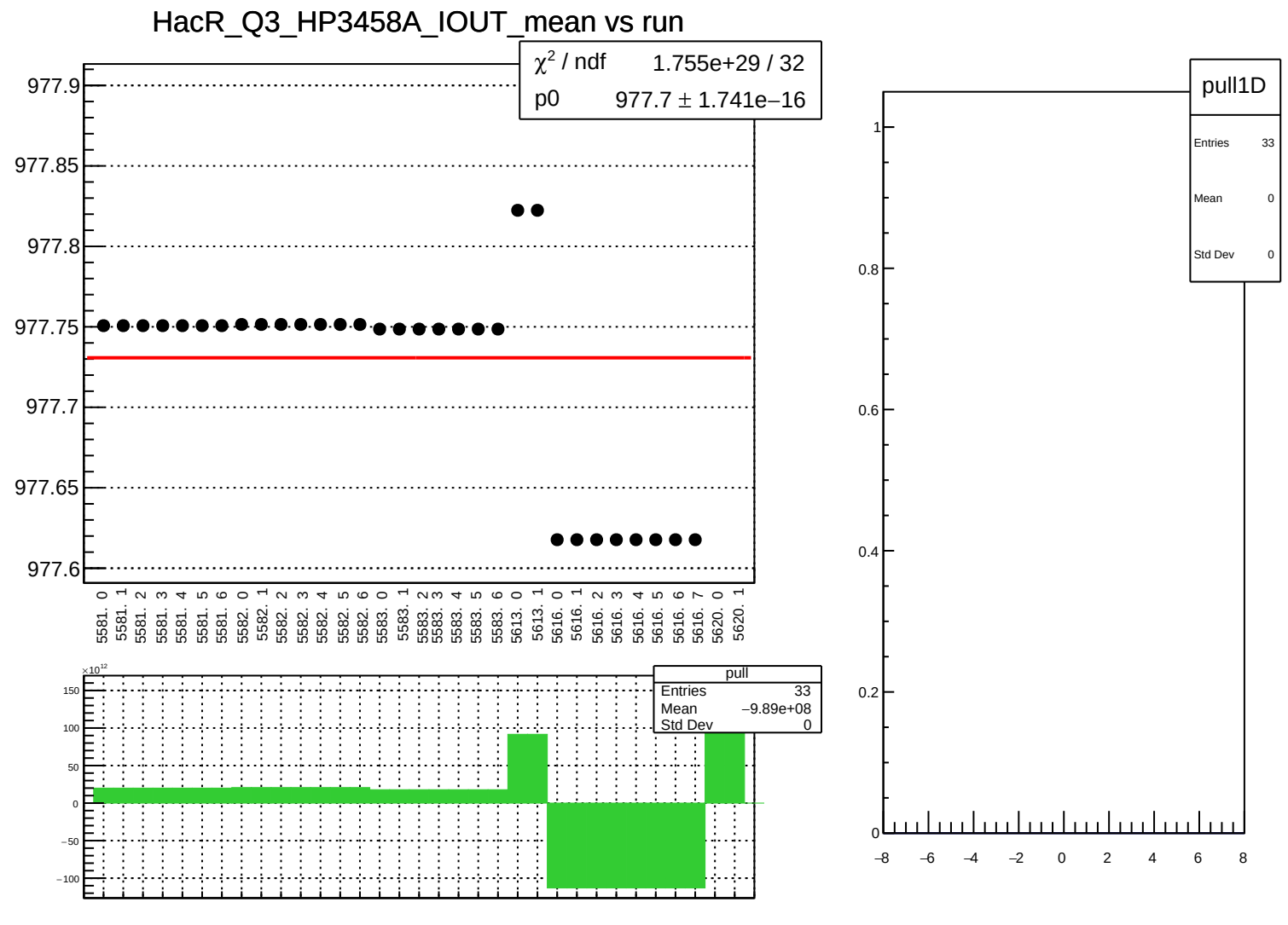

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

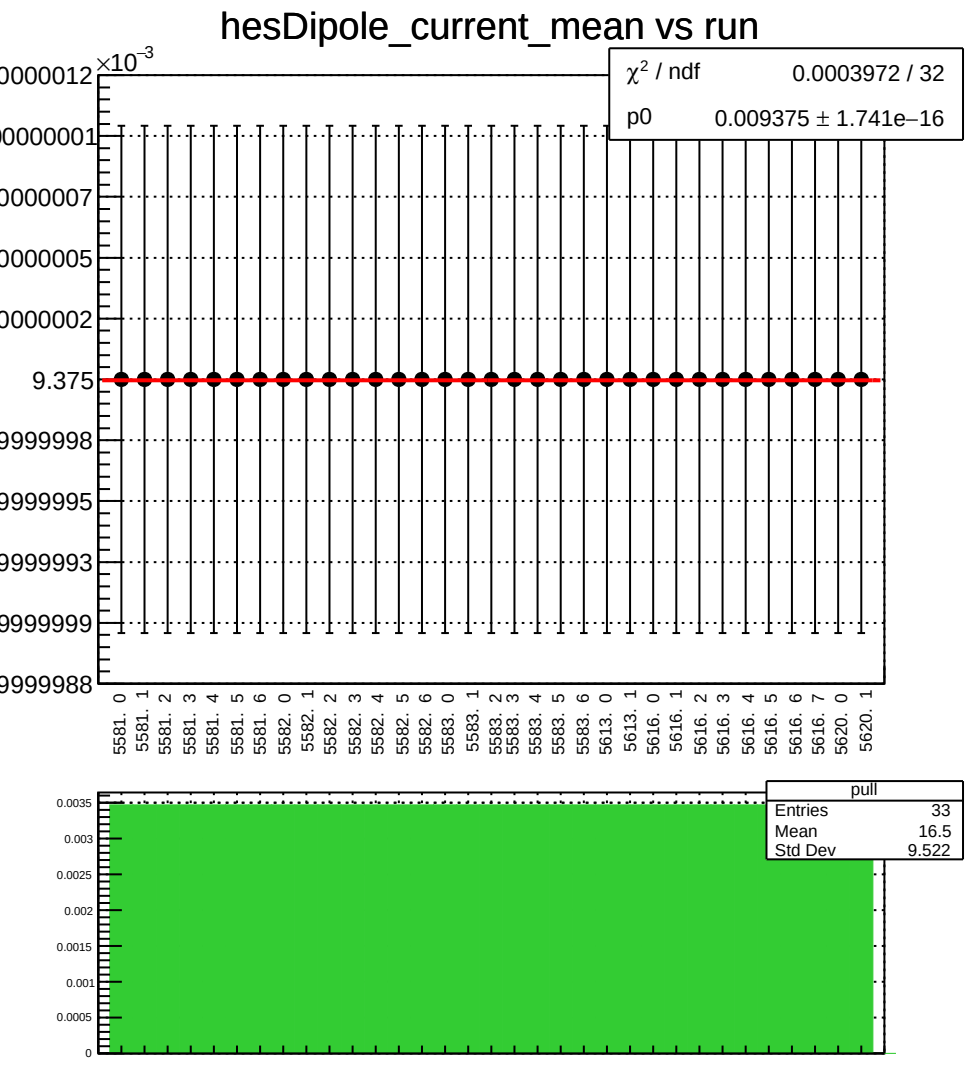

MQ172RM_mean vs run
χ² / ndf 0.0003972 / 32
p0 0.009375 ± 1.741e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.5
Std Dev 9.522
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0

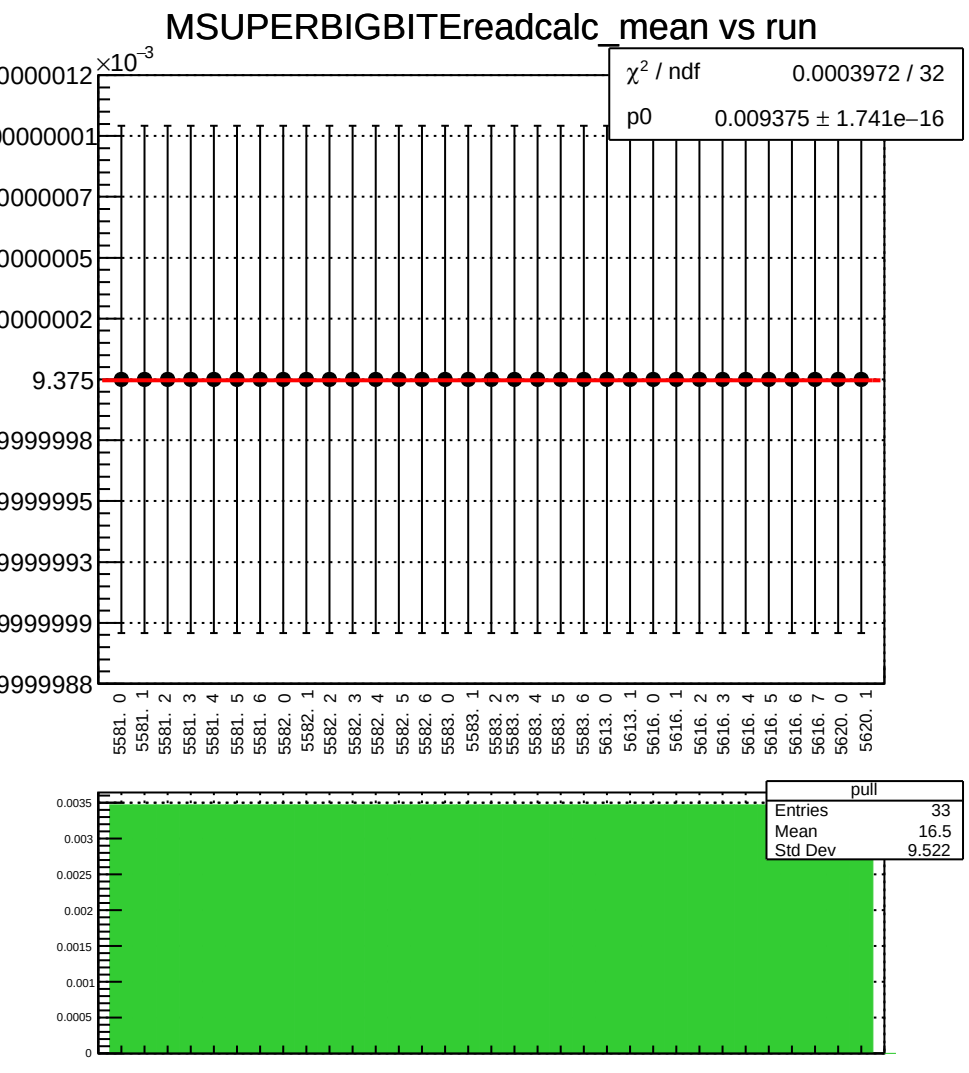

pull1D
Entries 33
Mean 0.003469
Std Dev 0
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

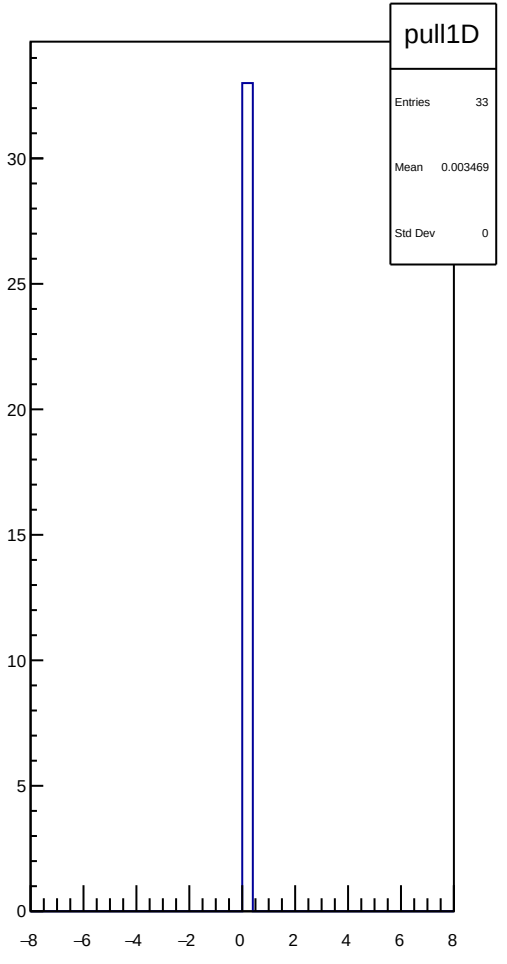

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.353e+26 / 32
p0 925 ± 1.741e−16
924.961
924.96
924.959
924.958
924.957
924.956
924.955
924.954
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 33
Mean −3.328e+07
Std Dev 0
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

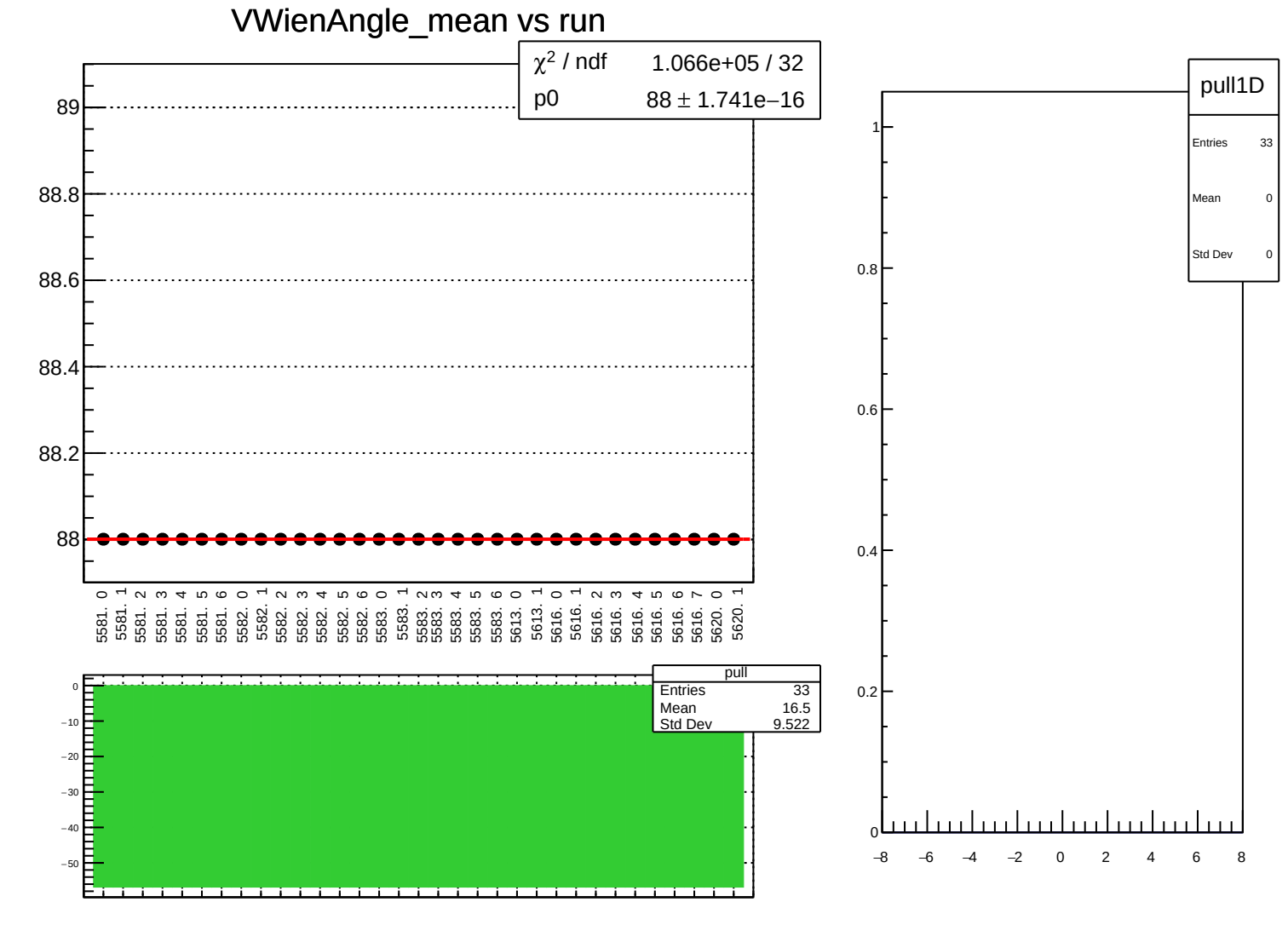

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 6.586e+26 / 32
p0 762.5 ± 1.741e−16
762.51
762.508
762.506
762.504
762.502
762.5
762.498
762.496
762.494
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
×10⁹
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 33
Mean 9.597e+08
Std Dev 0
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

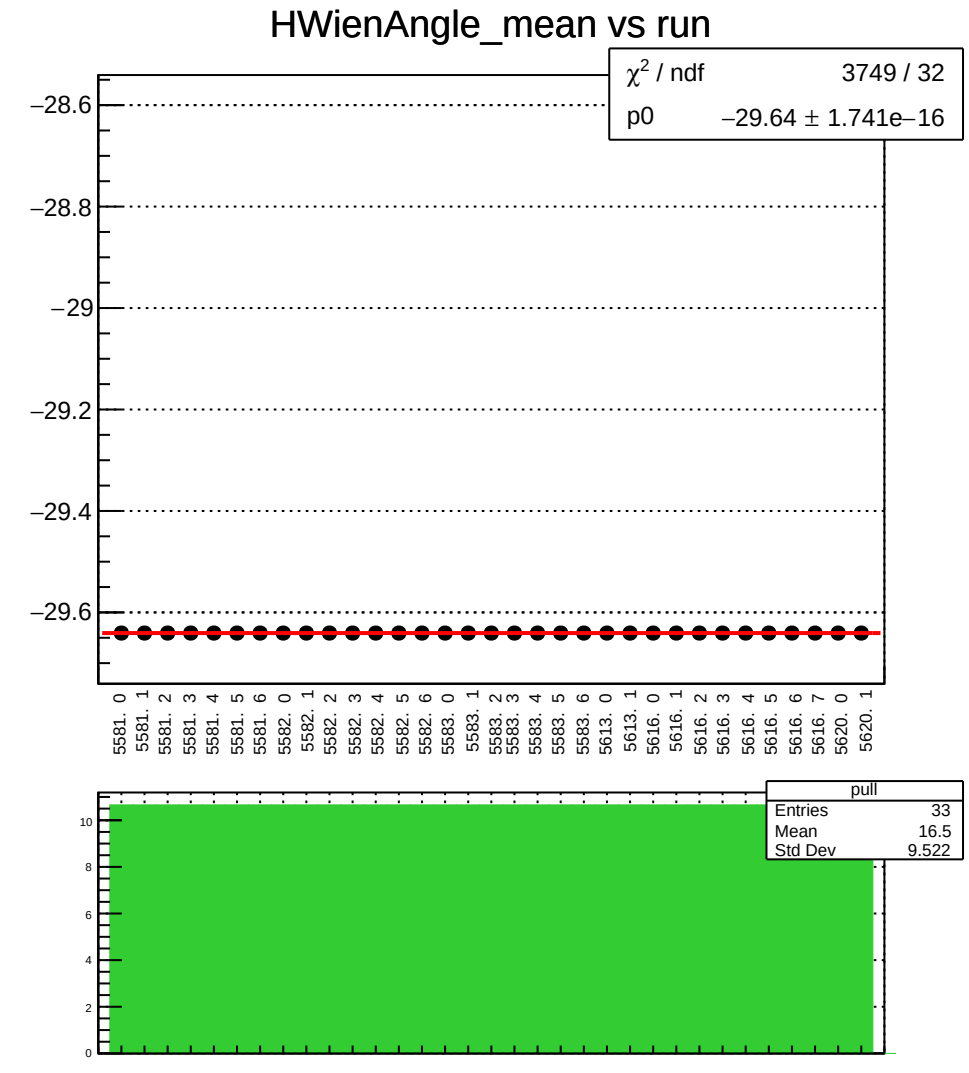

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.755e+29 / 32
p0 977.7 ± 1.741e−16
977.9
977.85
977.8
977.75
977.7
977.65
977.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
×10¹²
150
100
50
0
−50
−100
pull
Entries 33
Mean −9.89e+08
Std Dev 0
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

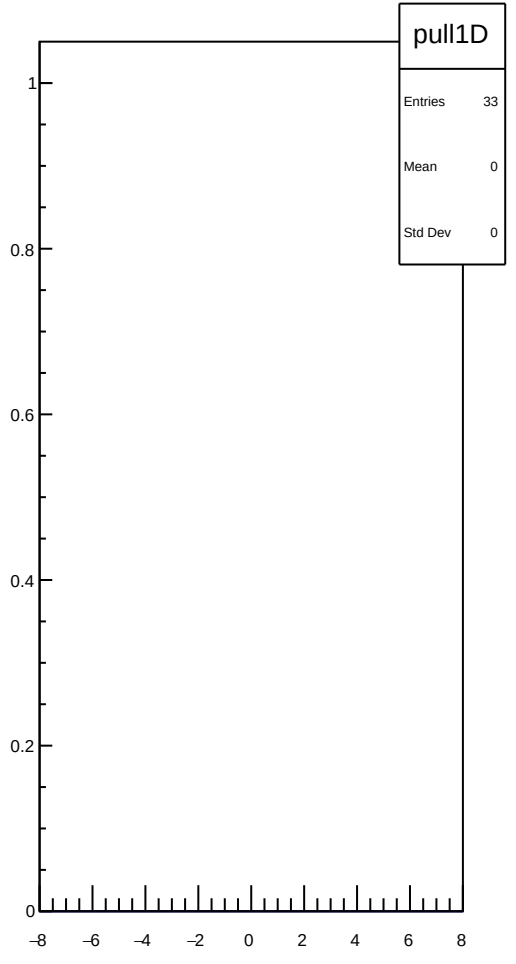

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.0003972 / 32
p0 0.009375 ± 1.741e−16
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.5
Std Dev 9.522
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
pull1D
Entries 33
Mean 0.003469
Std Dev 0
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

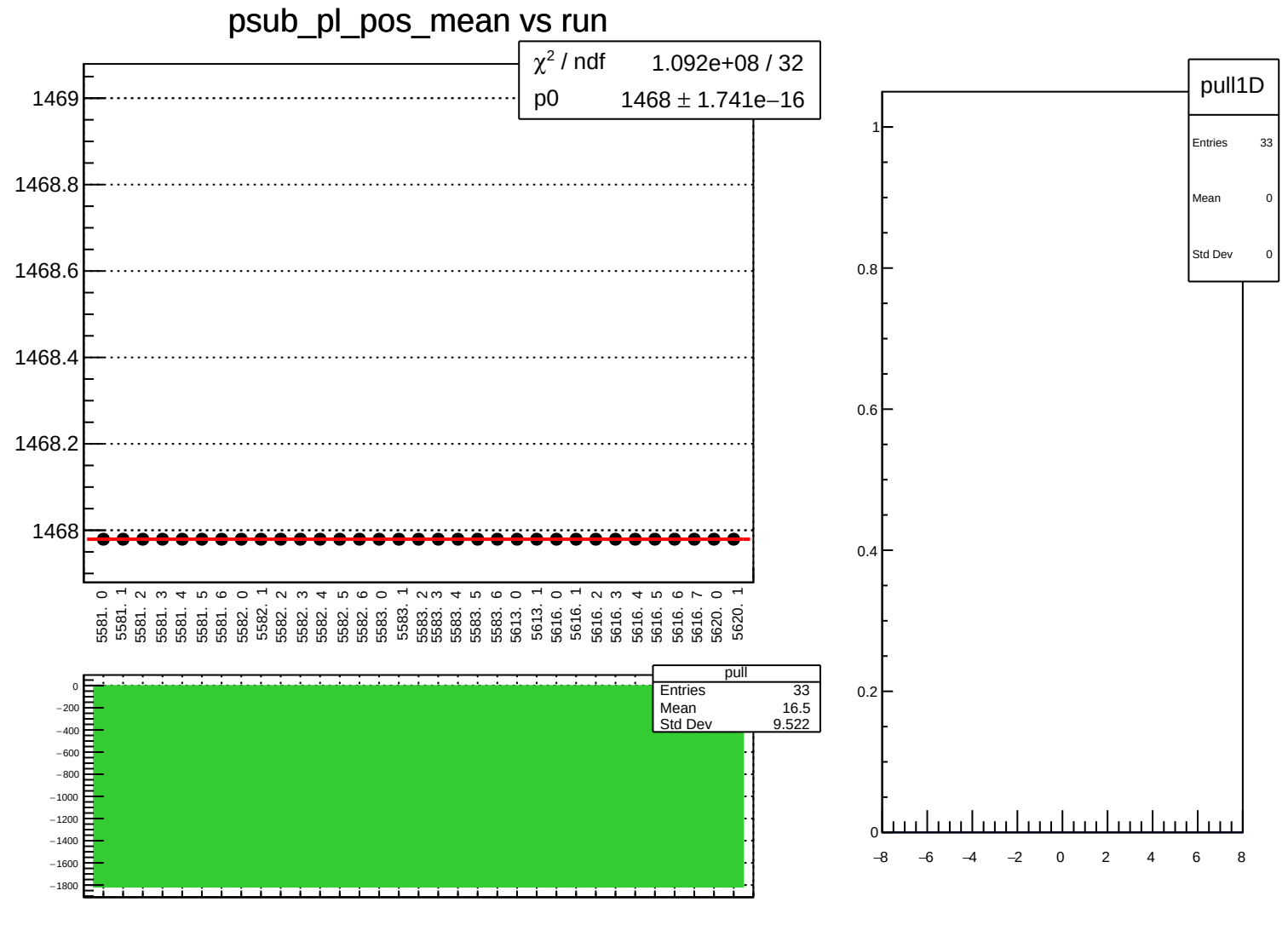

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0003972 / 32
p0 0.009375 ± 1.741e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.5
Std Dev 9.522
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0

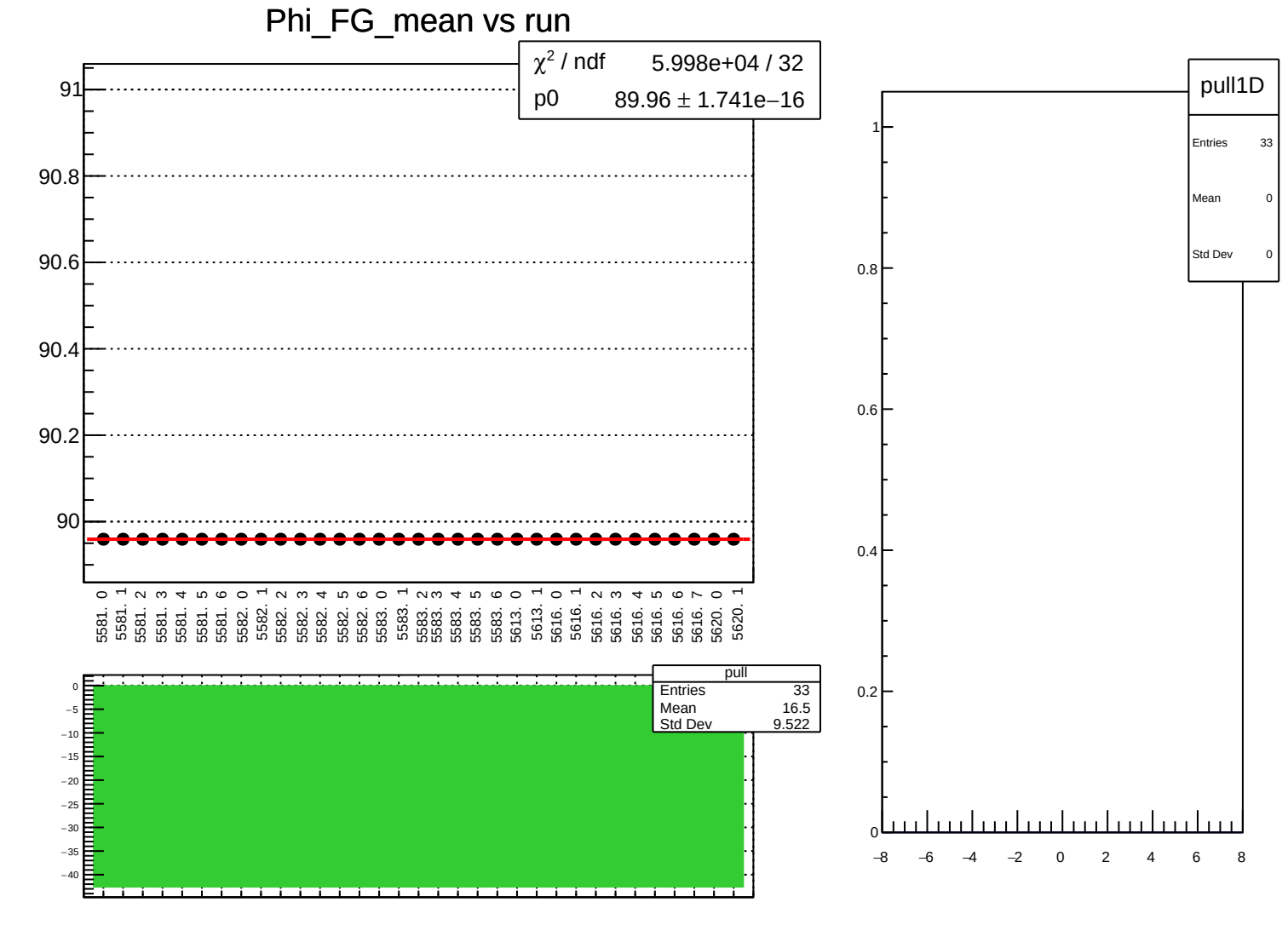

pull1D
Entries 33
Mean 0.003469
Std Dev 0
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

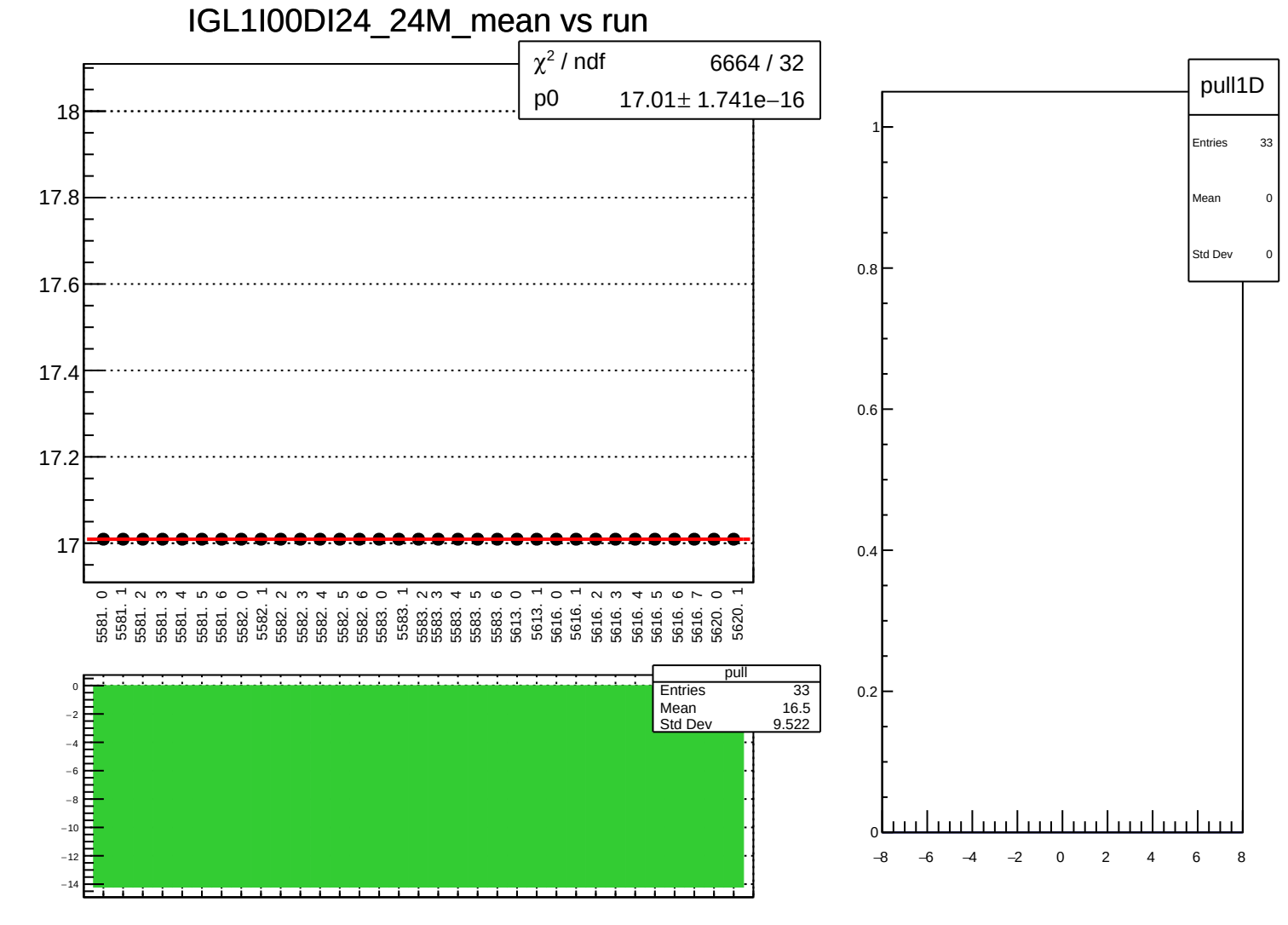

VWienAngle_mean vs run
χ² / ndf 1.066e+05 / 32
p0 88 ± 1.741e−16
89
88.8
88.6
88.4
88.2
88
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.5
Std Dev 9.522
0
−10
−20
−30
−40
−50
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

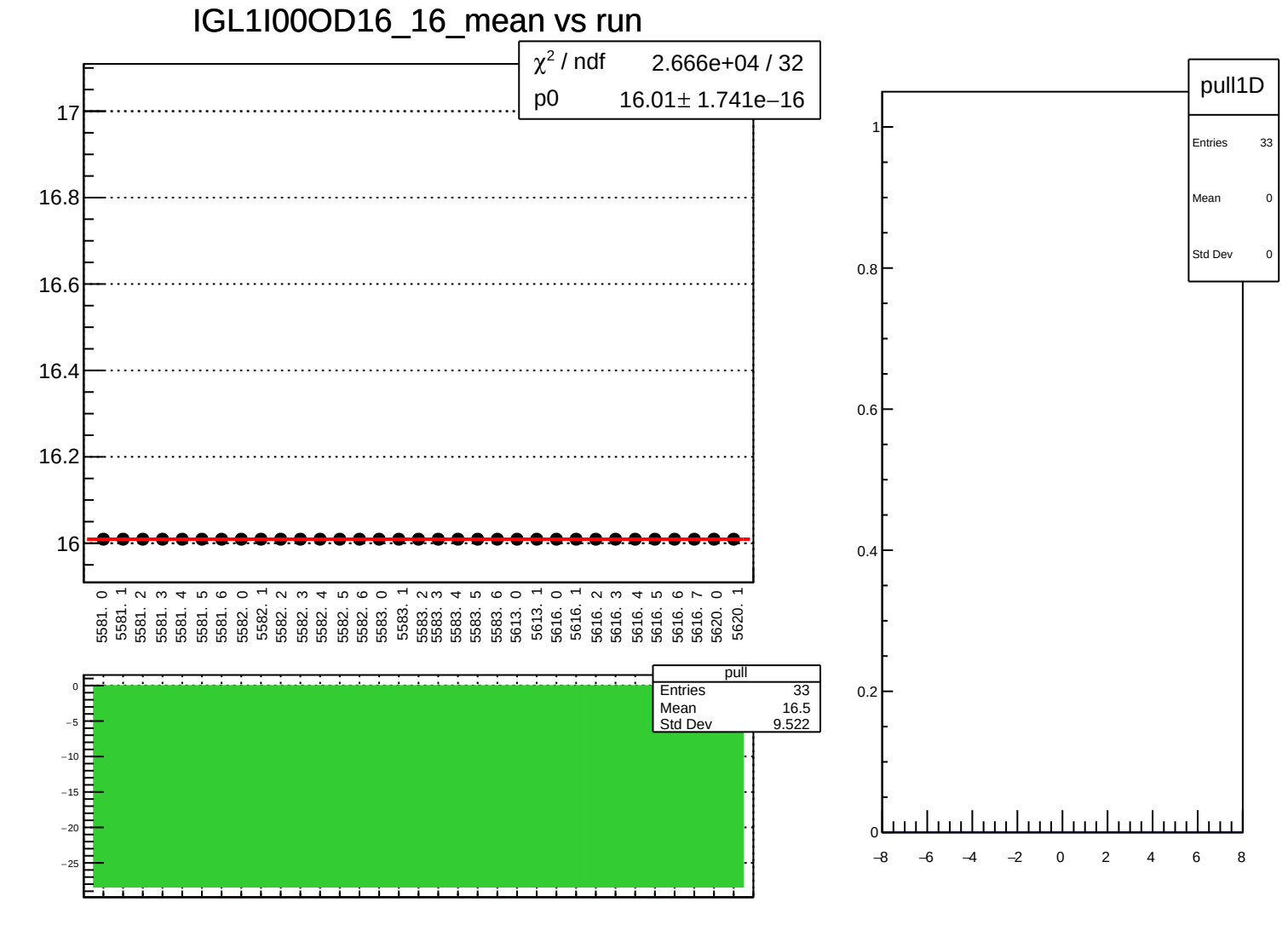

HWienAngle_mean vs run
χ² / ndf 3749 / 32
p0 −29.64 ± 1.741e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.5
Std Dev 9.522
0
2
4
6
8
10

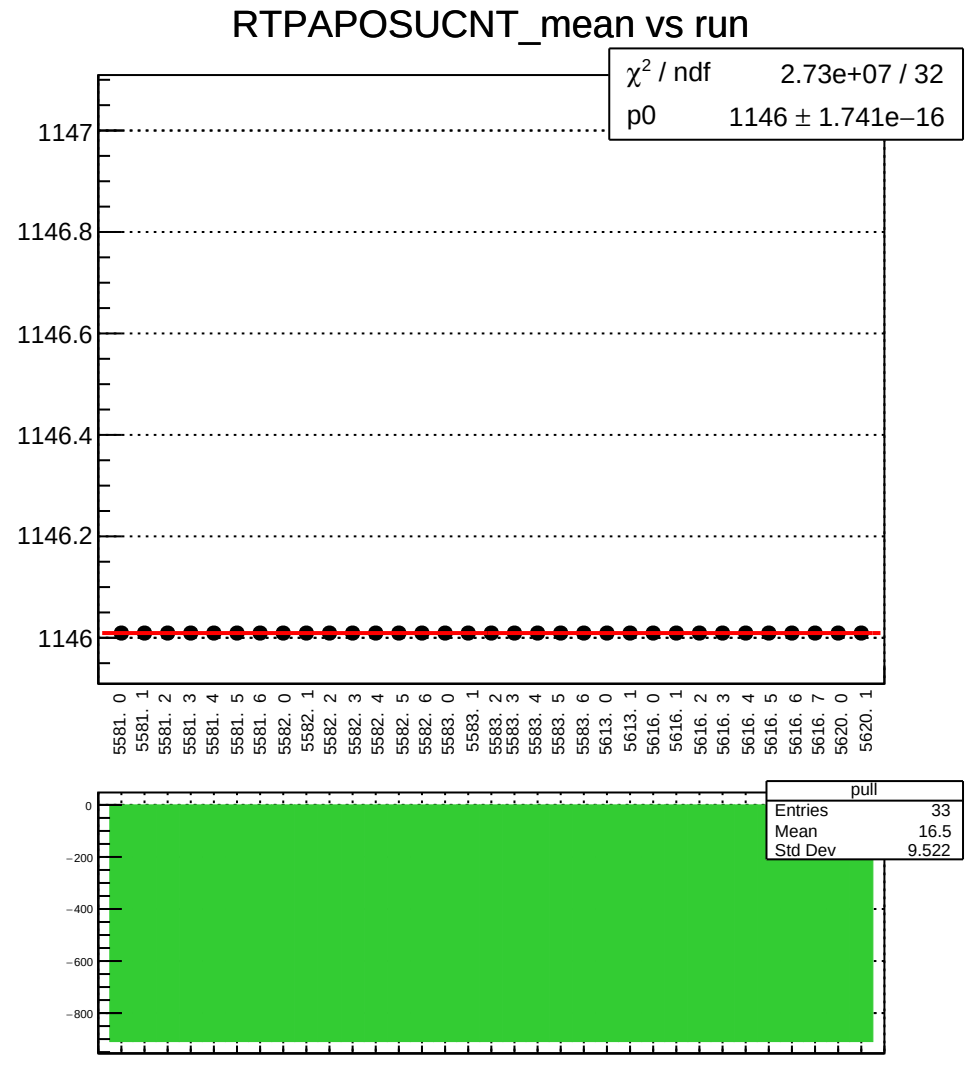

pull1D
Entries 33
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
−8
−6
−4
−2
0
2
4
6
8

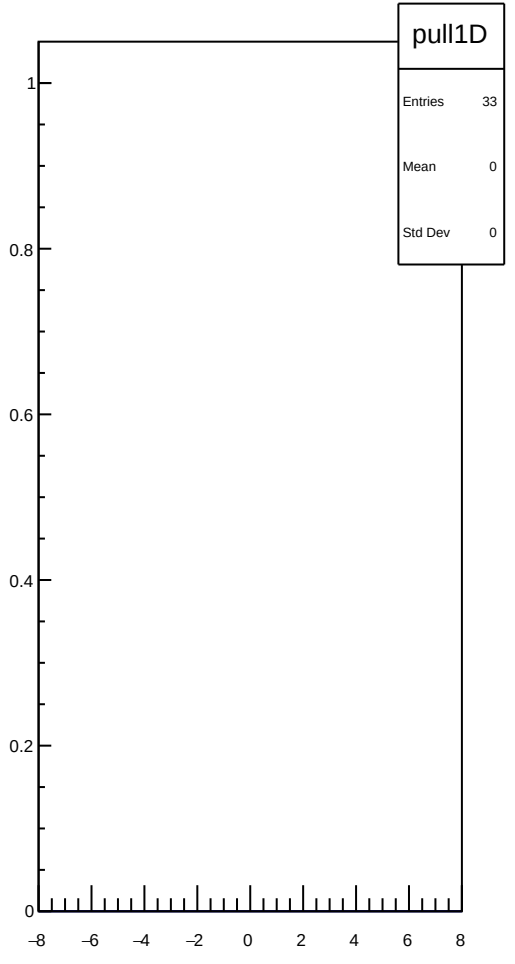

psub_pl_pos_mean vs run
χ² / ndf 1.092e+08 / 32
p0 1468 ± 1.741e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.5
Std Dev 9.522
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

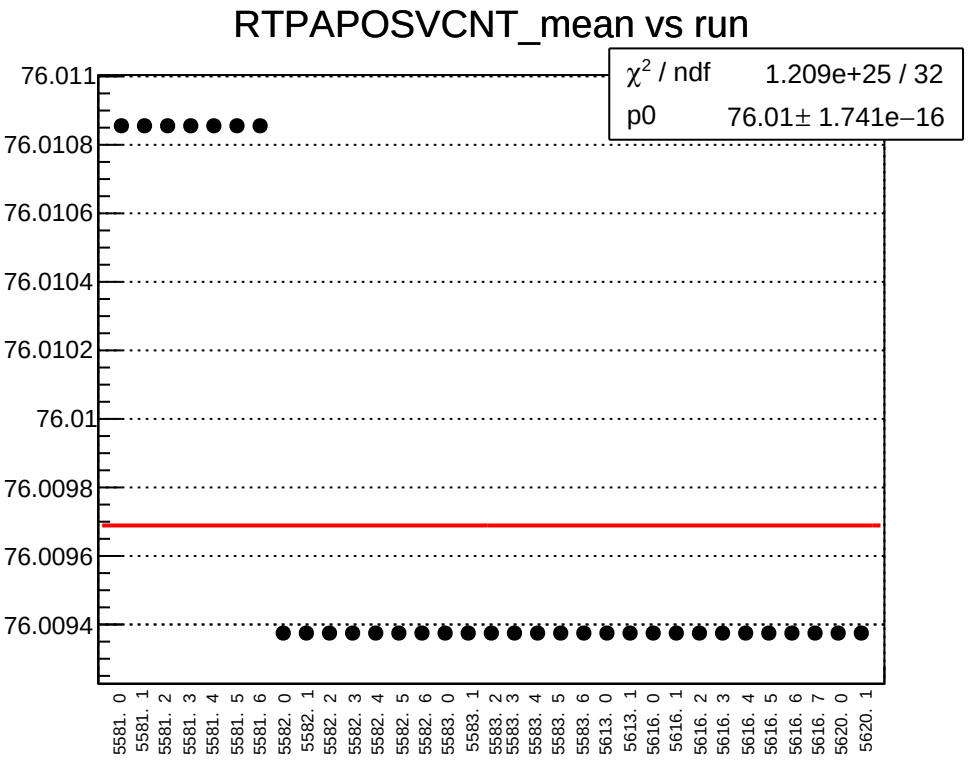

Phi_FG_mean vs run
χ² / ndf 5.998e+04 / 32
p0 89.96 ± 1.741e−16
91
90.8
90.6
90.4
90.2
90
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.5
Std Dev 9.522
0
−5
−10
−15
−20
−25
−30
−35
−40
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

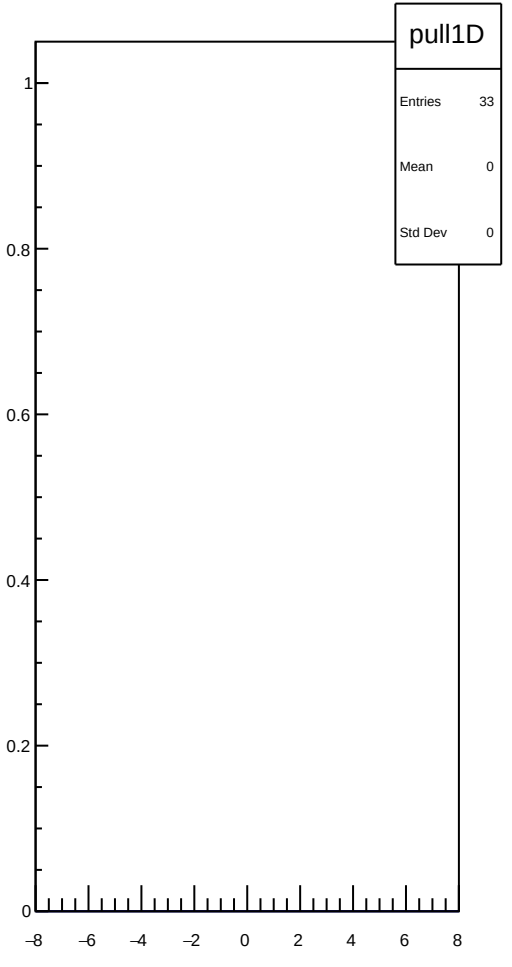

IGL1I00DI24_24M_mean vs run
χ² / ndf 6664 / 32
p0 17.01± 1.741e−16
18
17.8
17.6
17.4
17.2
17
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.5
Std Dev 9.522
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

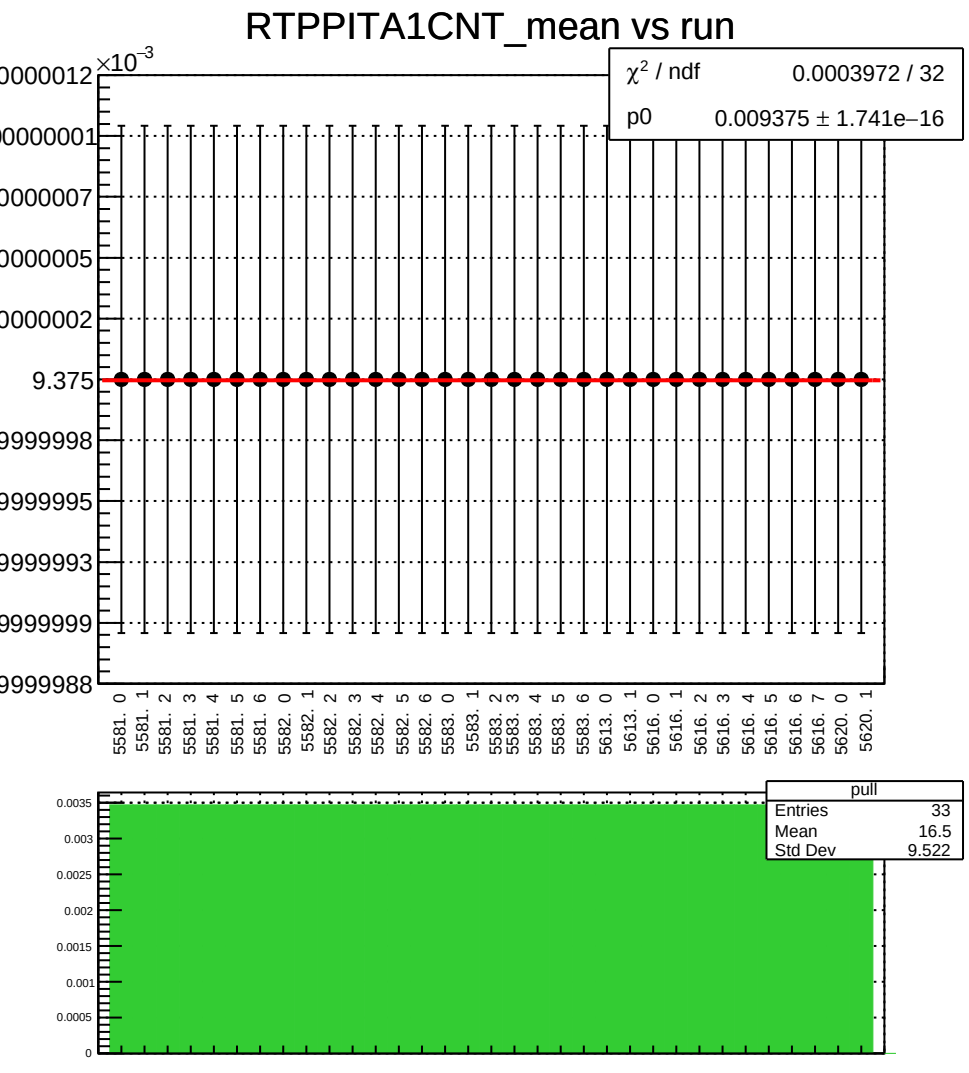

IGL1I00OD16_16_mean vs run
χ² / ndf 2.666e+04 / 32
p0 16.01± 1.741e−16
17
16.8
16.6
16.4
16.2
16
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.5
Std Dev 9.522
0
−5
−10
−15
−20
−25
pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

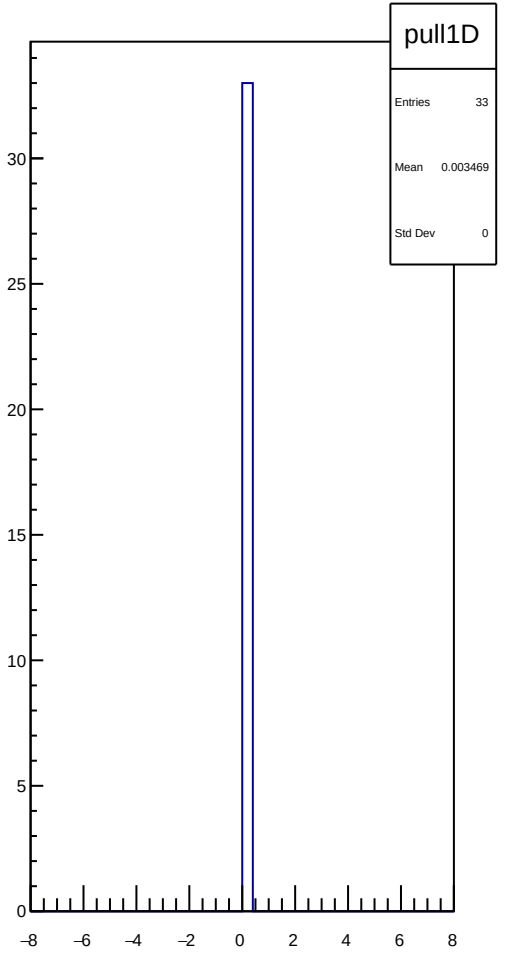

RTPAPOSUCNT_mean vs run
χ² / ndf 2.73e+07 / 32
p0 1146 ± 1.741e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.5
Std Dev 9.522
0
−200
−400
−600
−800

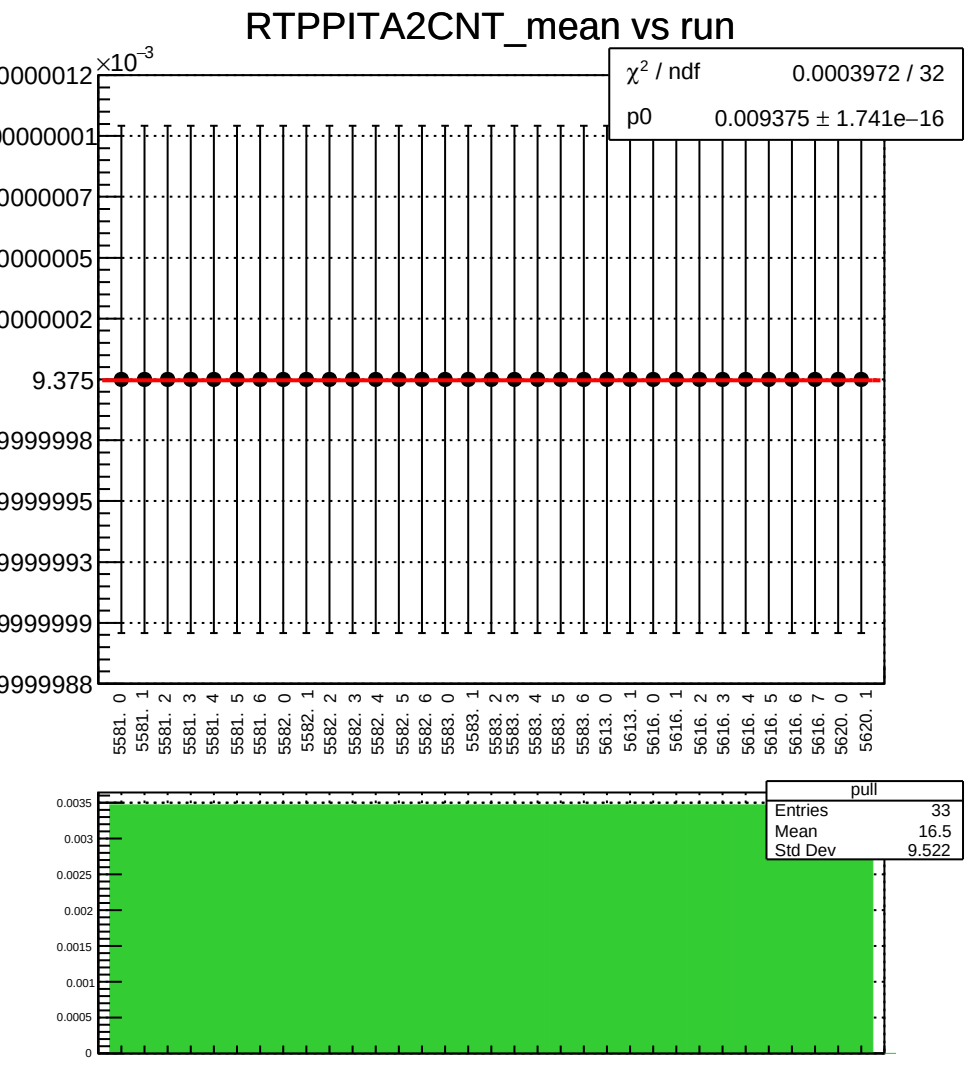

pull1D
Entries 33
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

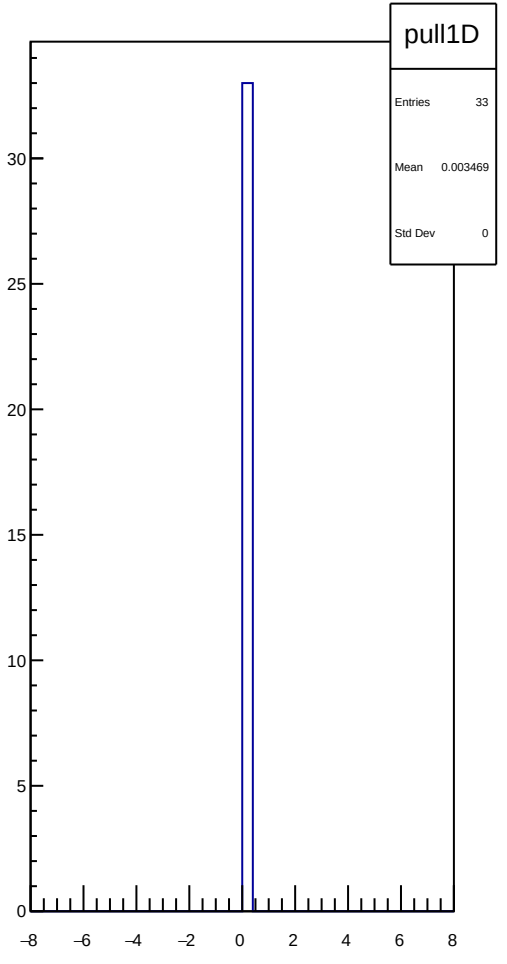

RTPAPOSVCNT_mean vs run
χ² / ndf 1.209e+25 / 32
p0 76.01± 1.741e−16
76.011
76.0108
76.0106
76.0104
76.0102
76.01
76.0098
76.0096
76.0094
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
×10⁹
1200
1000
800
600
400
200
0
−200
pull
Entries 33
Mean −3.426e+08
Std Dev 0


pull1D
Entries 33
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 0.0003972 / 32
p0 0.009375 ± 1.741e−16
×10⁻³
pull
Entries 33
Mean 16.5
Std Dev 9.522


pull1D
Entries 33
Mean 0.003469
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.0003972 / 32
p0 0.009375 ± 1.741e−16
×10⁻³
0000012
0000001
0000007
0000005
0000002
9.375
9999998
9999995
9999993
9999999
9999988
5581. 0
5581. 1
5581. 2
5581. 3
5581. 4
5581. 5
5581. 6
5582. 0
5582. 1
5582. 2
5582. 3
5582. 4
5582. 5
5582. 6
5583. 0
5583. 1
5583. 2
5583. 3
5583. 4
5583. 5
5583. 6
5613. 0
5613. 1
5616. 0
5616. 1
5616. 2
5616. 3
5616. 4
5616. 5
5616. 6
5616. 7
5620. 0
5620. 1
pull
Entries 33
Mean 16.5
Std Dev 9.522
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0


pull1D
Entries 33
Mean 0.003469
Std Dev 0
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8