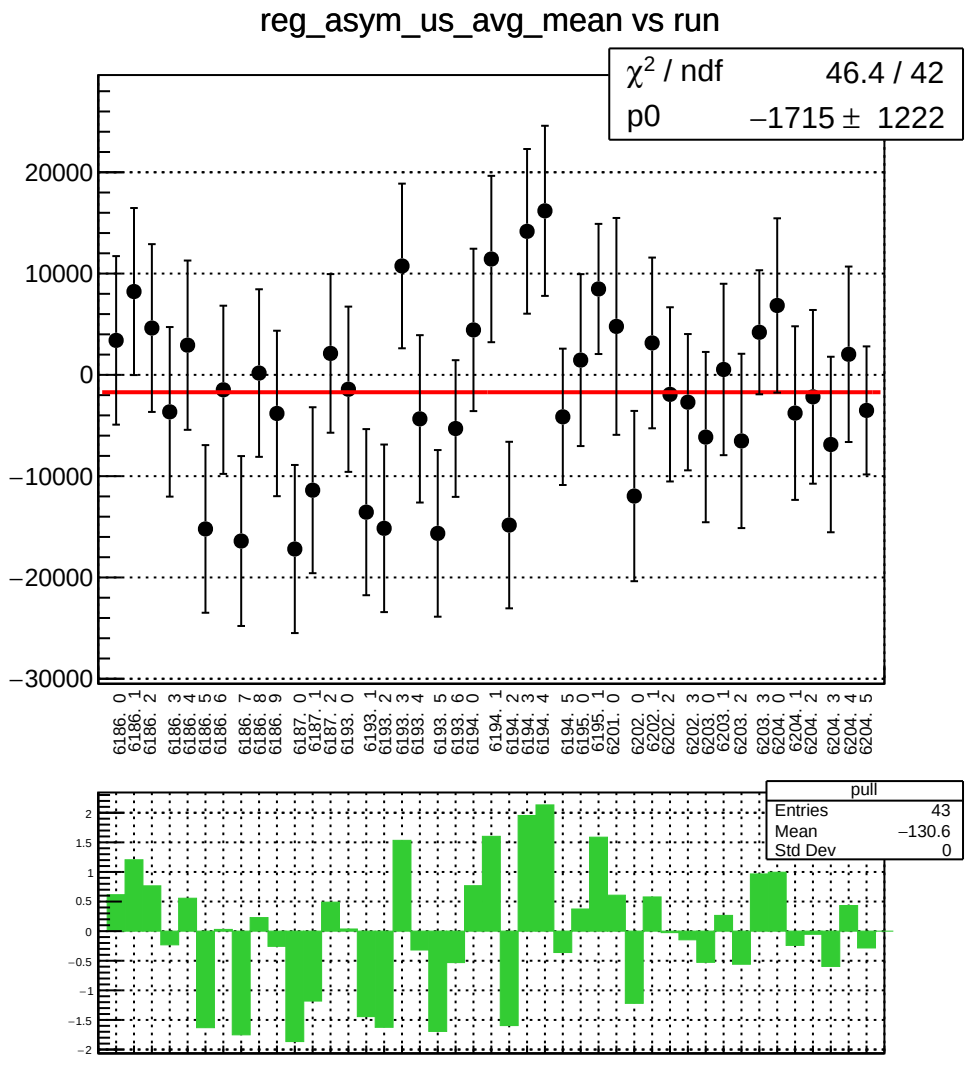
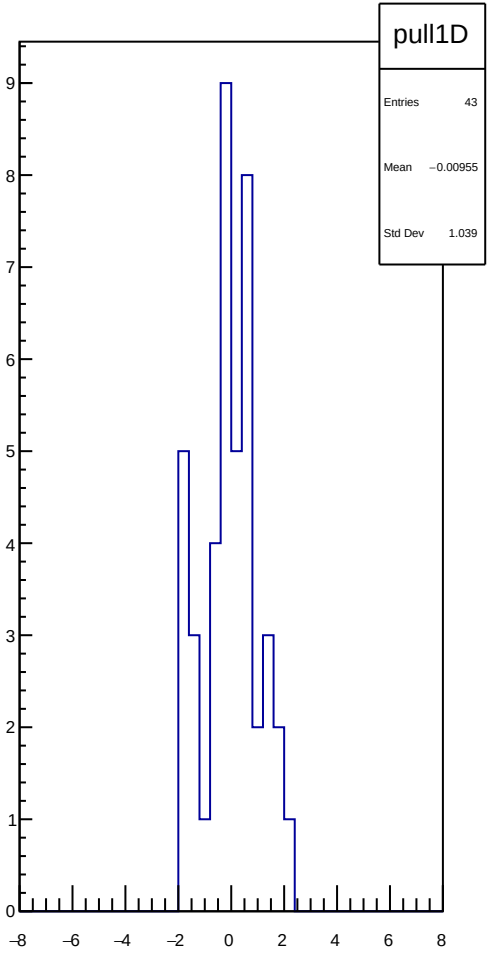
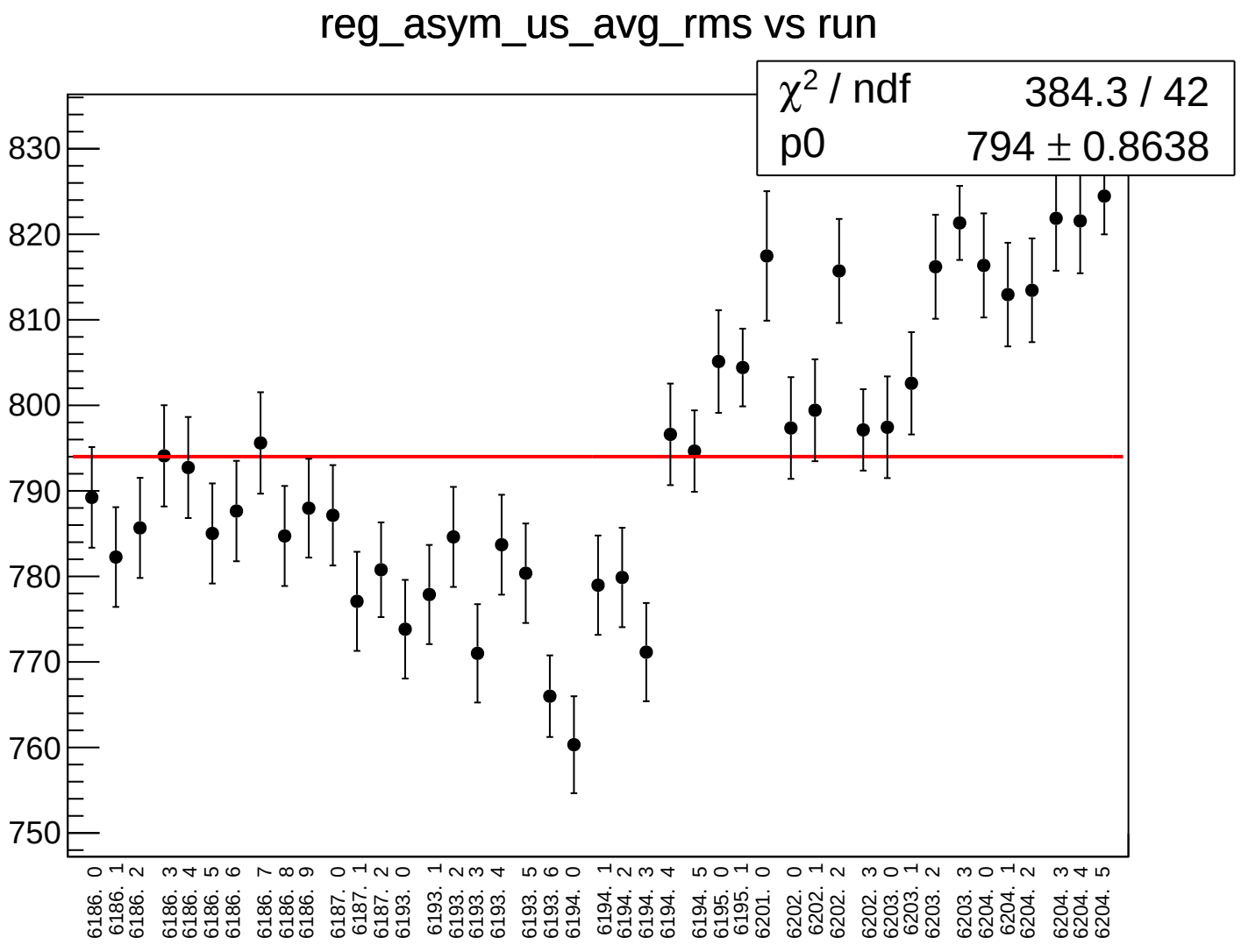
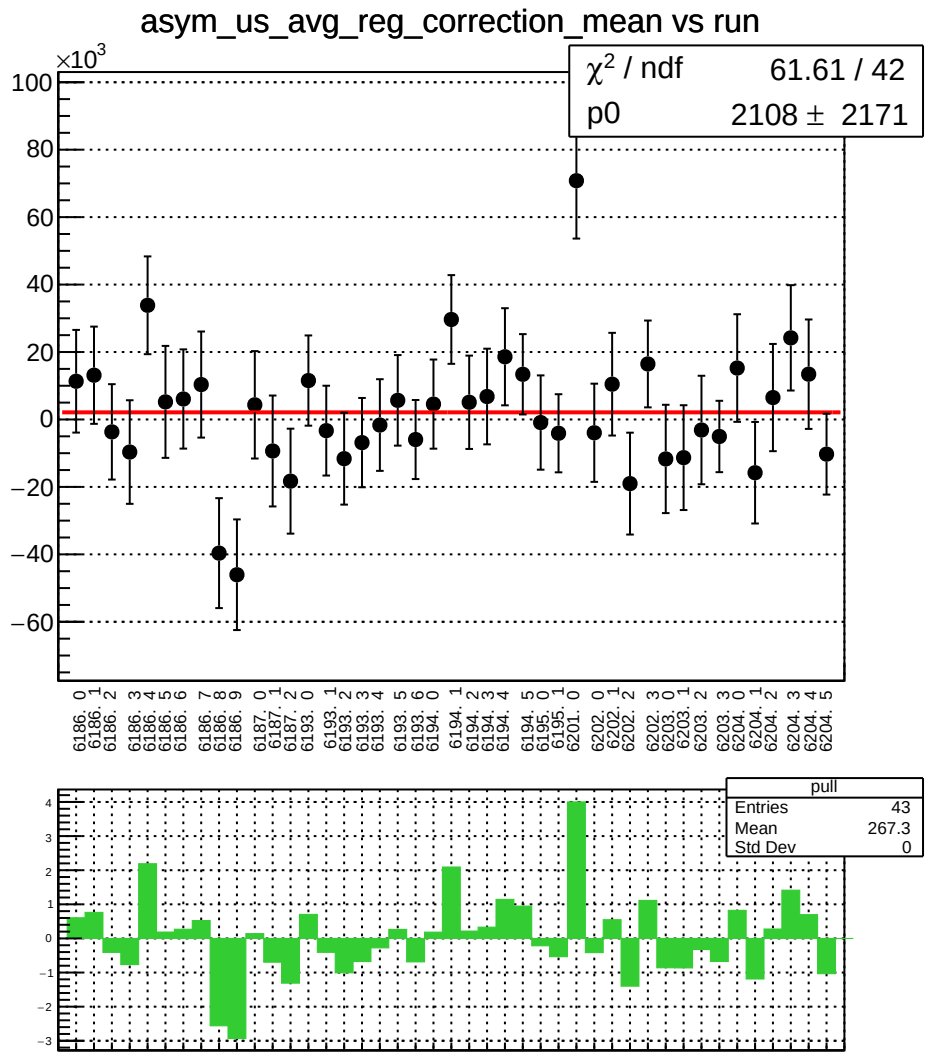
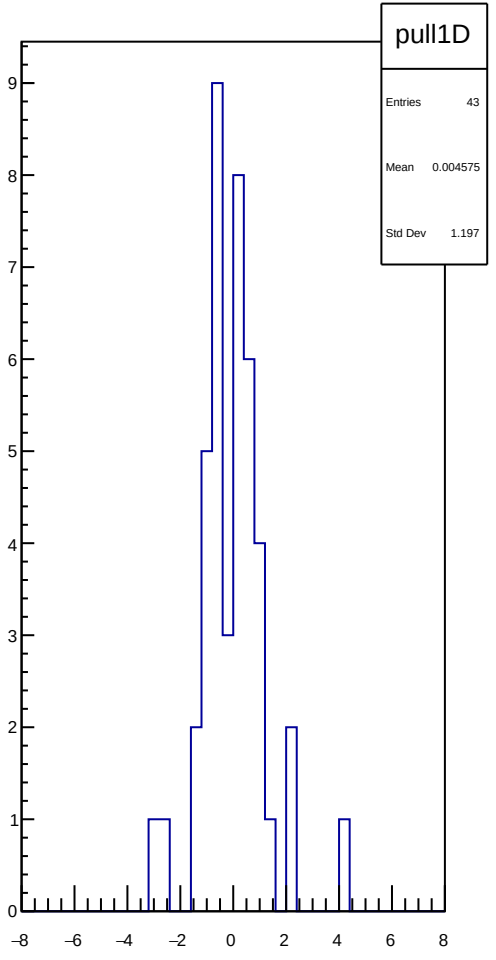
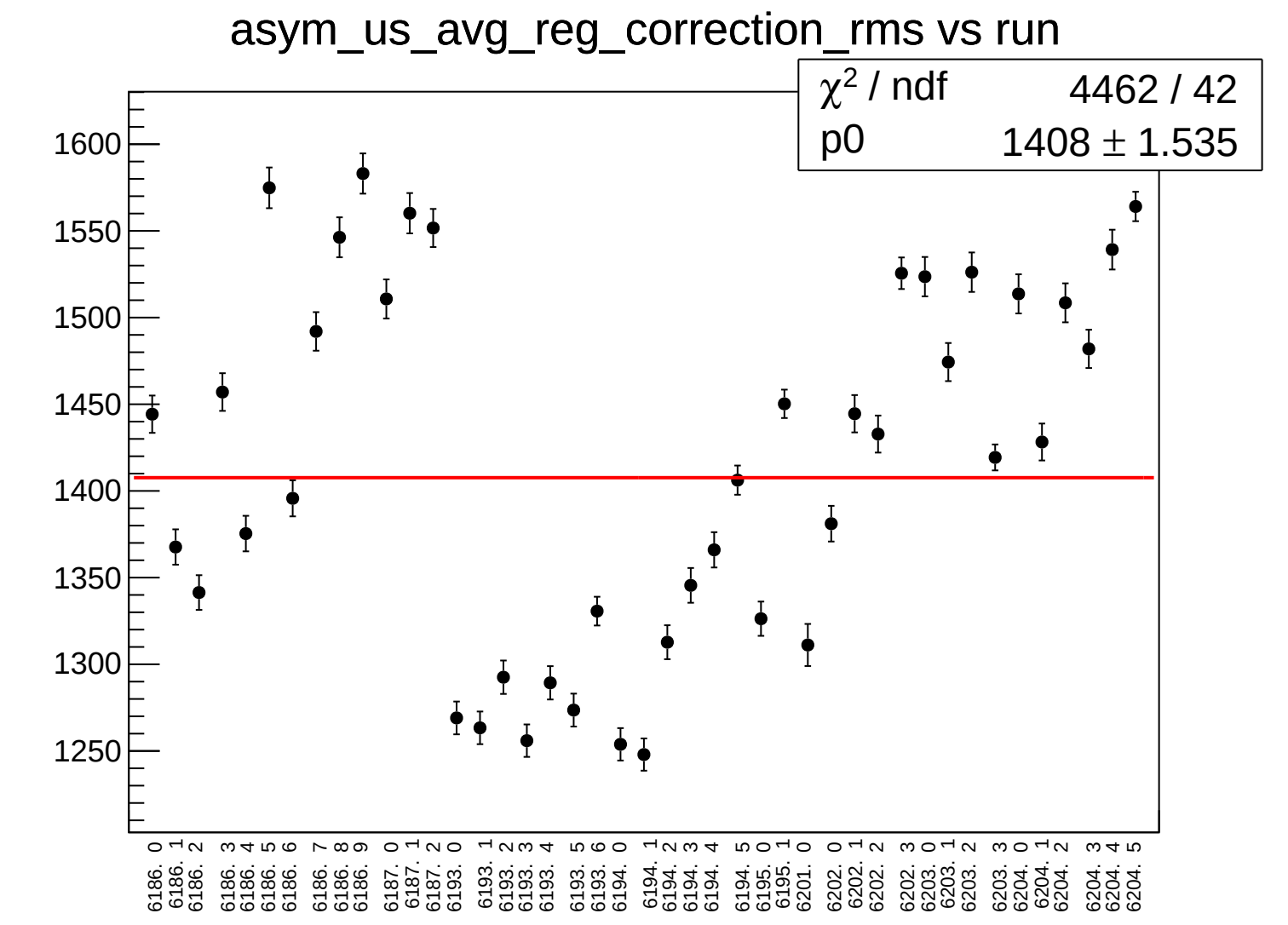

reg_asym_us_avg_mean vs run
χ² / ndf 46.4 / 42
p0 −1715 ± 1222
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −130.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

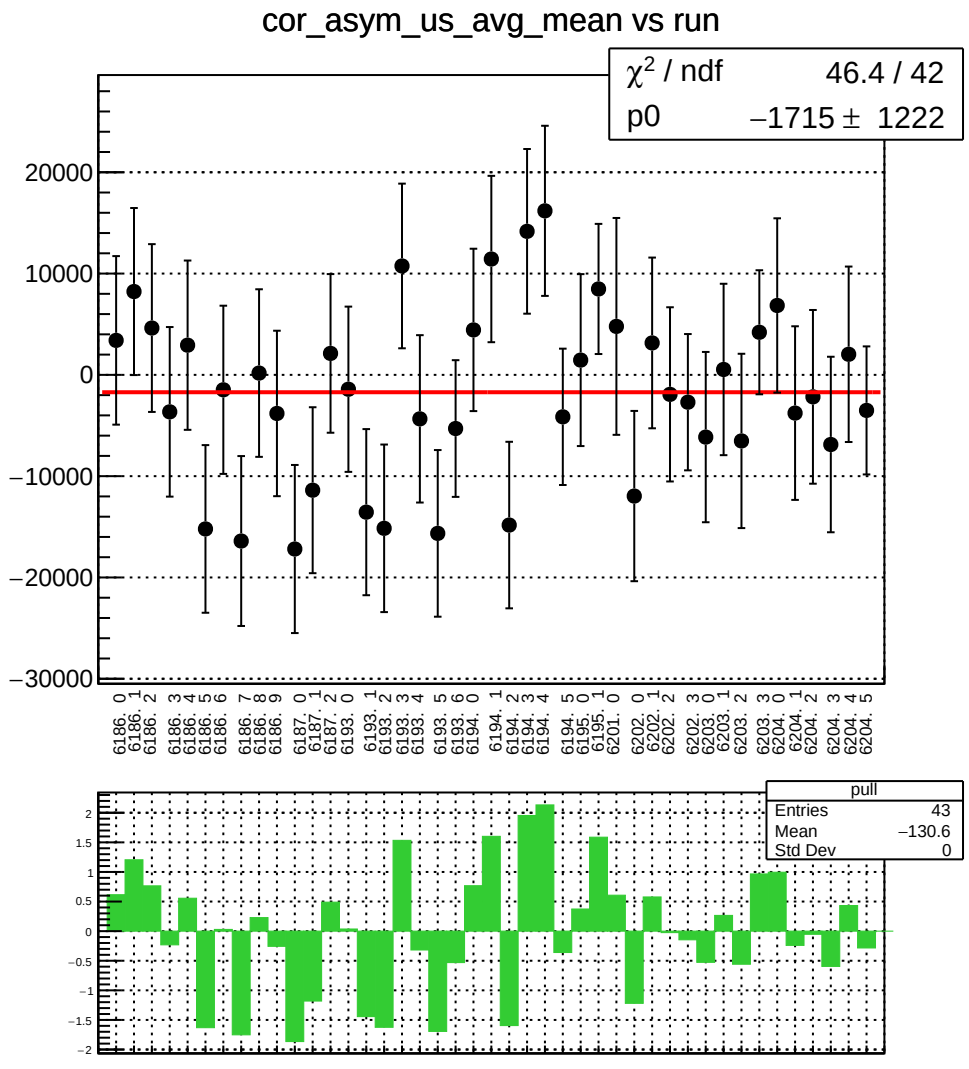

pull1D
Entries 43
Mean −0.00955
Std Dev 1.039
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

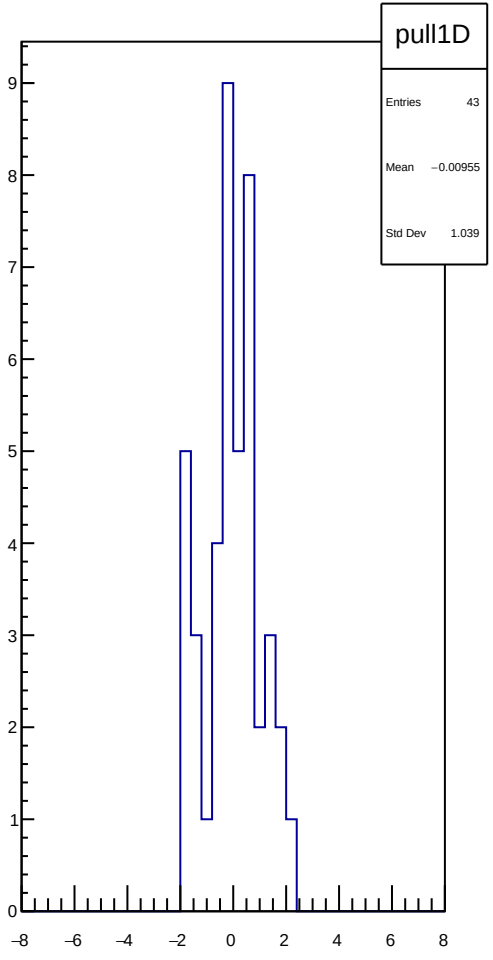

reg_asym_us_avg_rms vs run
χ^2 / ndf 384.3 / 42
p0 794 ± 0.8638
830
820
810
800
790
780
770
760
750
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

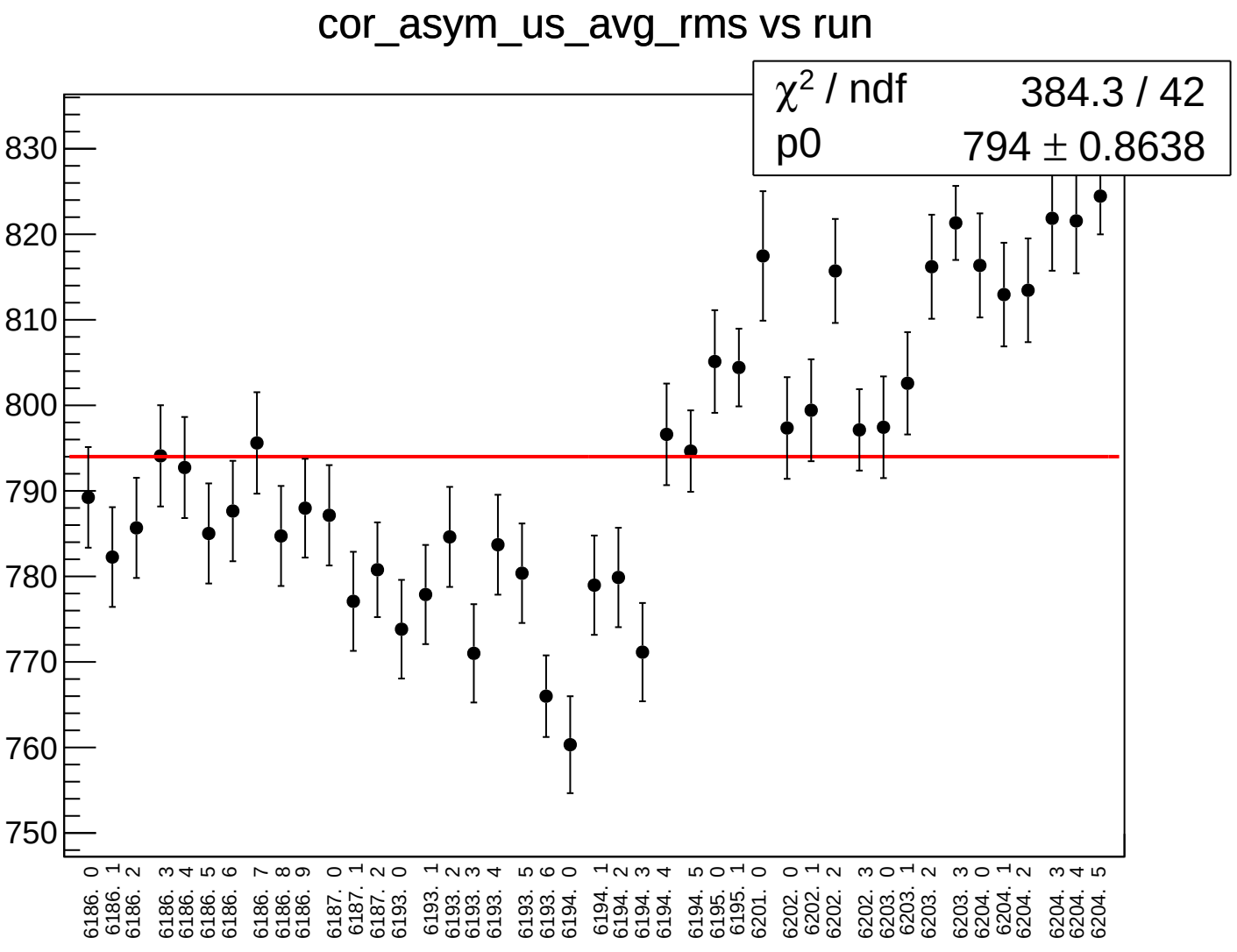

asym_us_avg_reg_correction_mean vs run
×10^3
χ² / ndf 61.61 / 42
p0 2108 ± 2171
pull
Entries 43
Mean 267.3
Std Dev 0

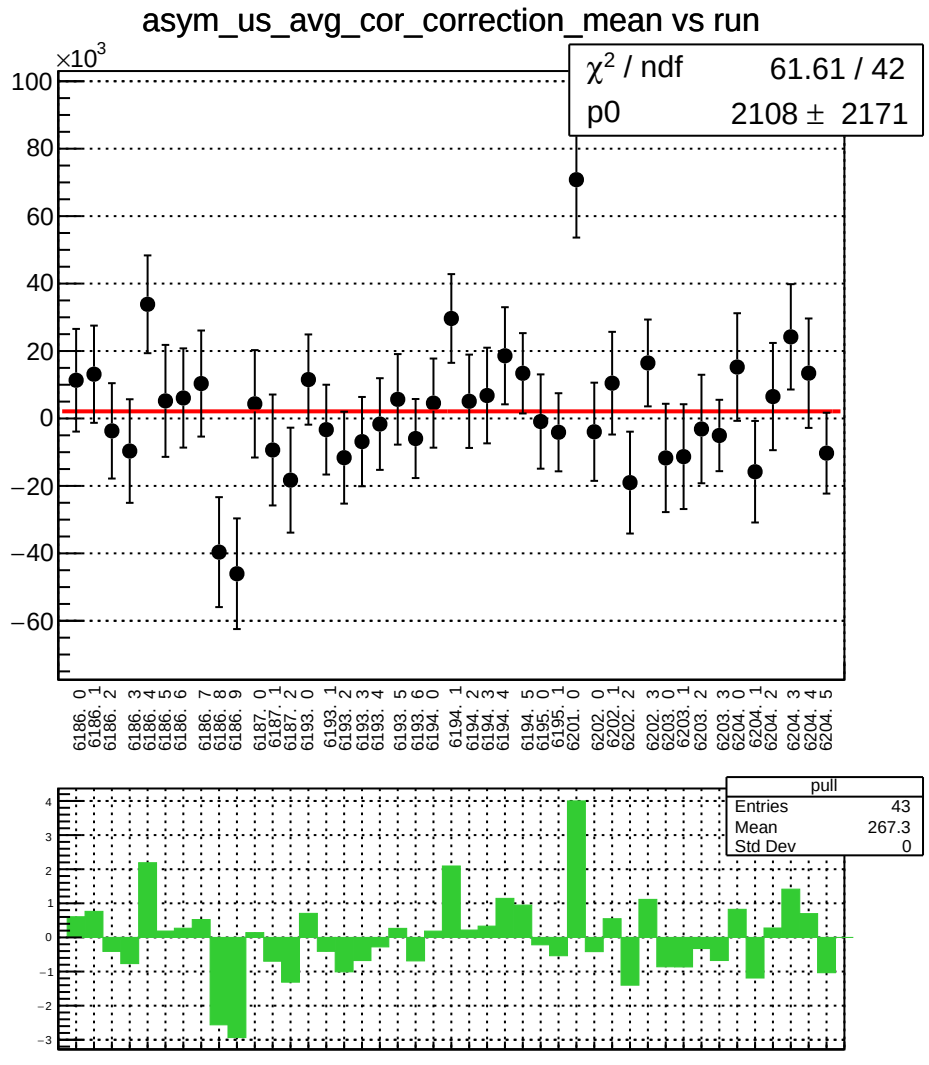

pull1D
Entries 43
Mean 0.004575
Std Dev 1.197

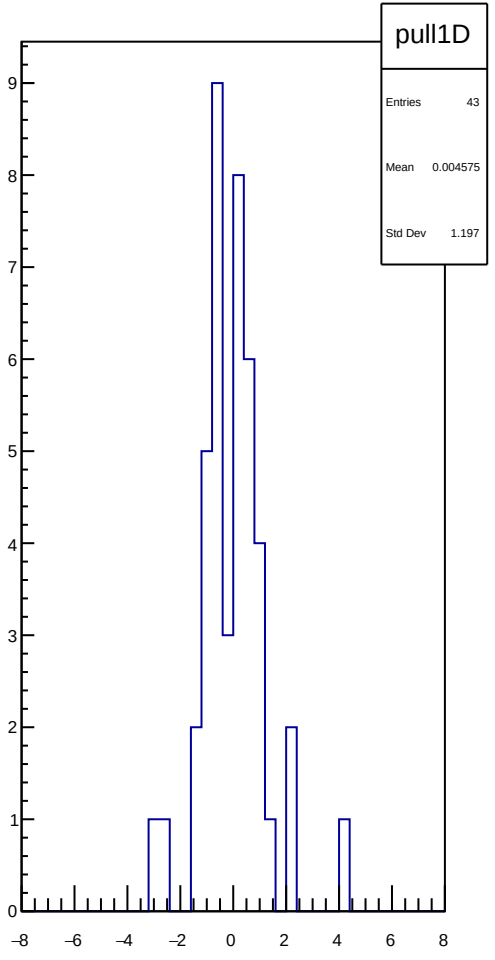

asym_us_avg_reg_correction_rms vs run
χ² / ndf 4462 / 42
p0 1408 ± 1.535
1600
1550
1500
1450
1400
1350
1300
1250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

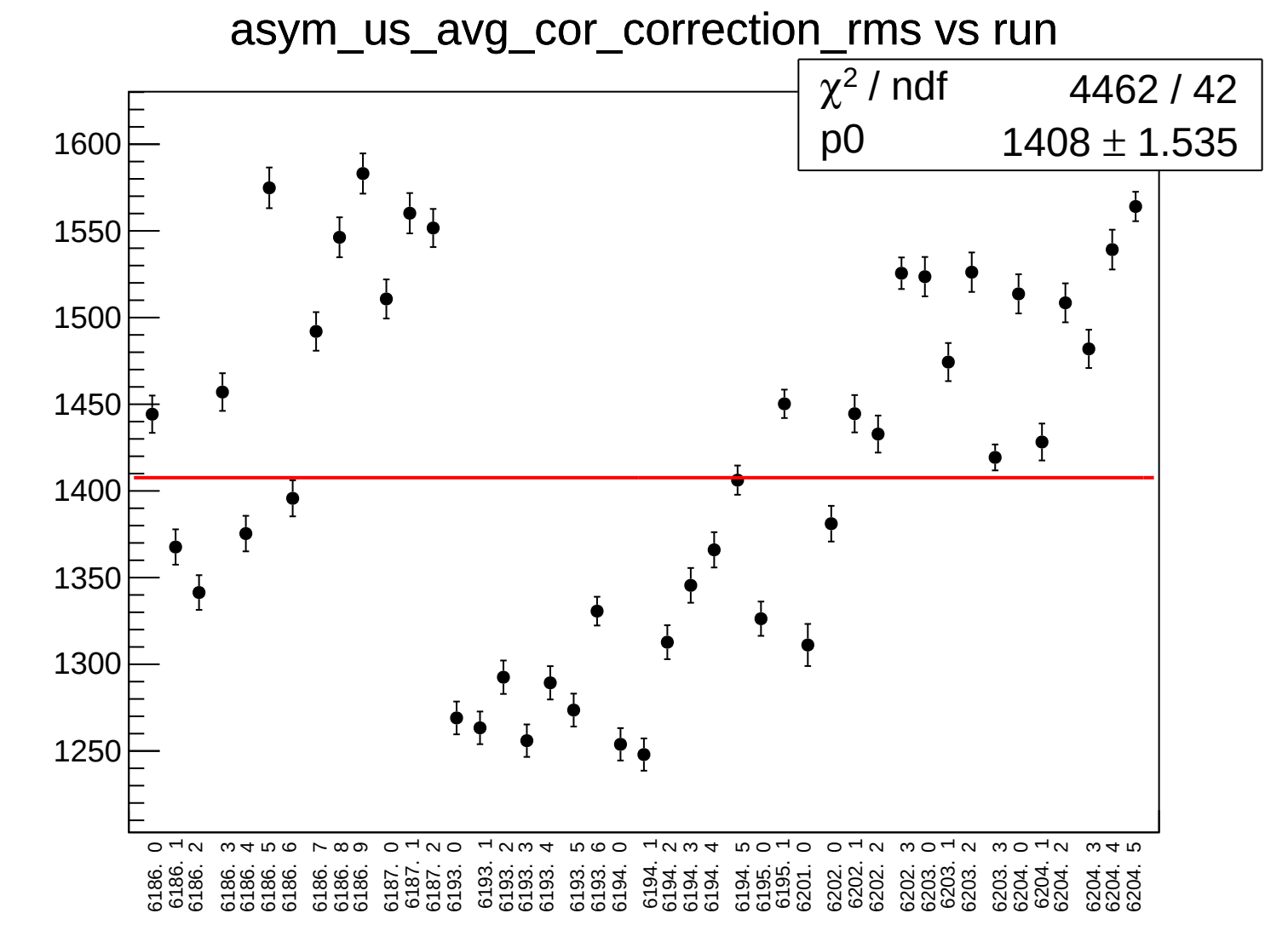

cor_asym_us_avg_mean vs run
χ² / ndf 46.4 / 42
p0 −1715 ± 1222
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −130.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

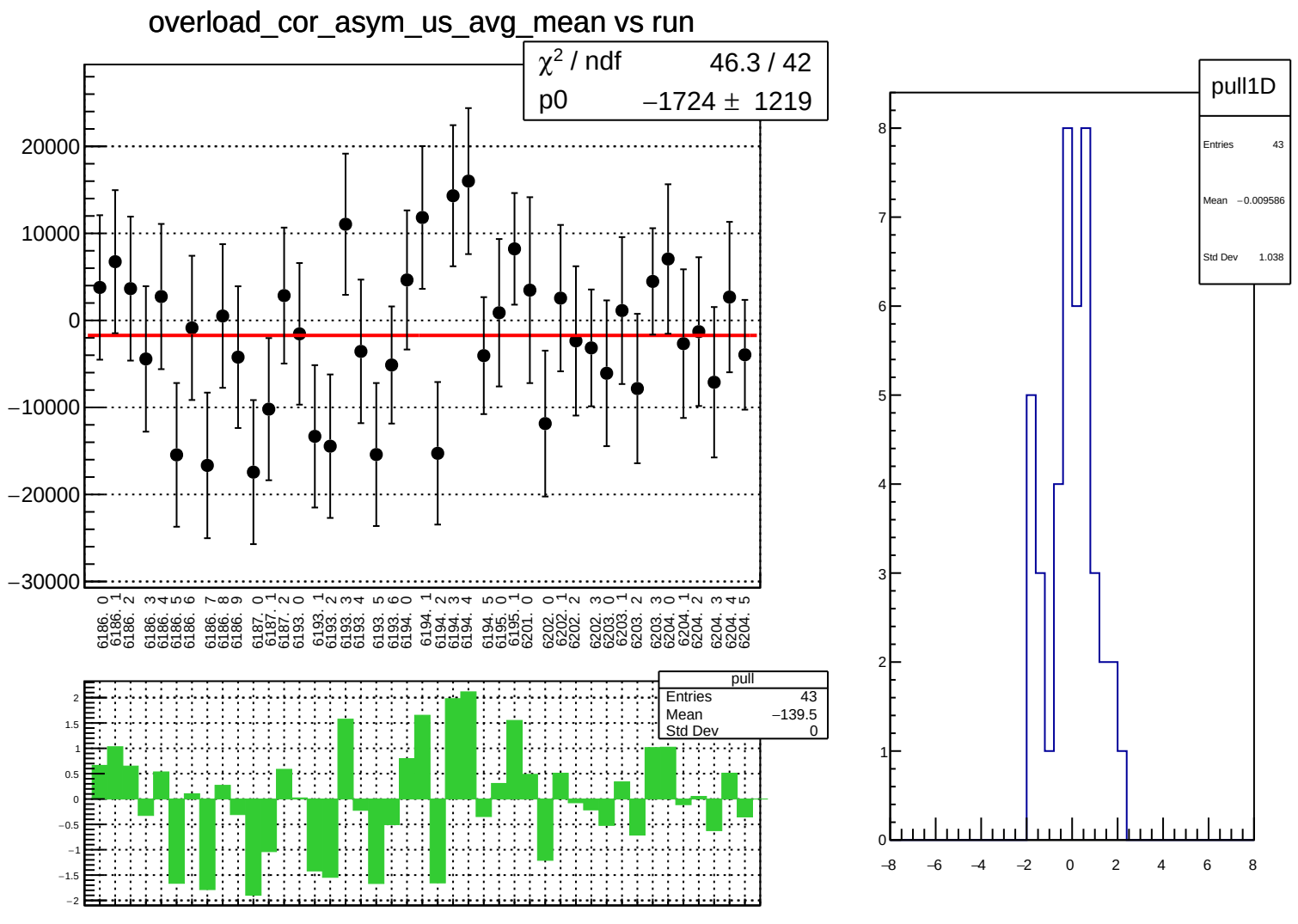

pull1D
Entries 43
Mean −0.00955
Std Dev 1.039
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

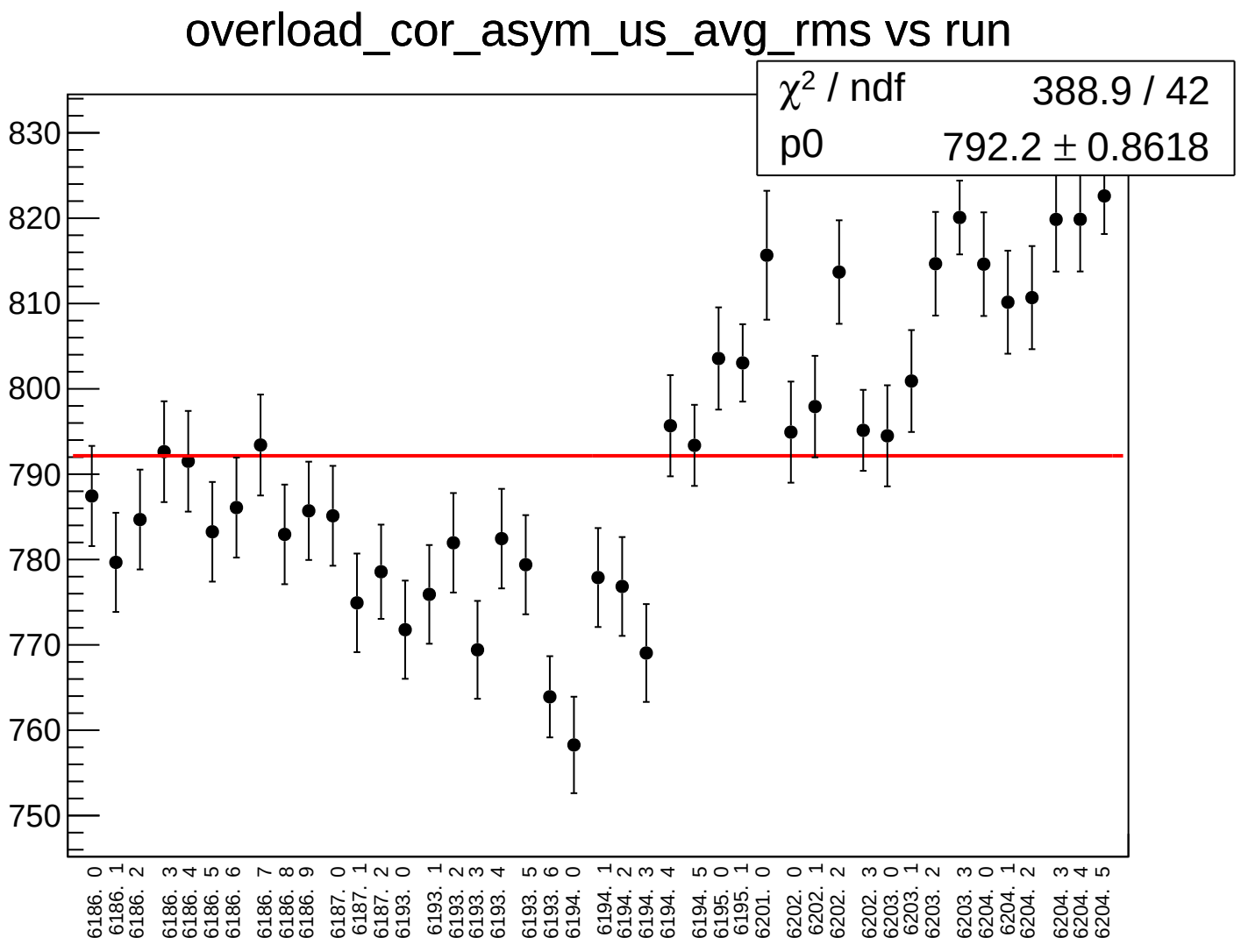

cor_asym_us_avg_rms vs run
χ² / ndf 384.3 / 42
p0 794 ± 0.8638
830
820
810
800
790
780
770
760
750
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

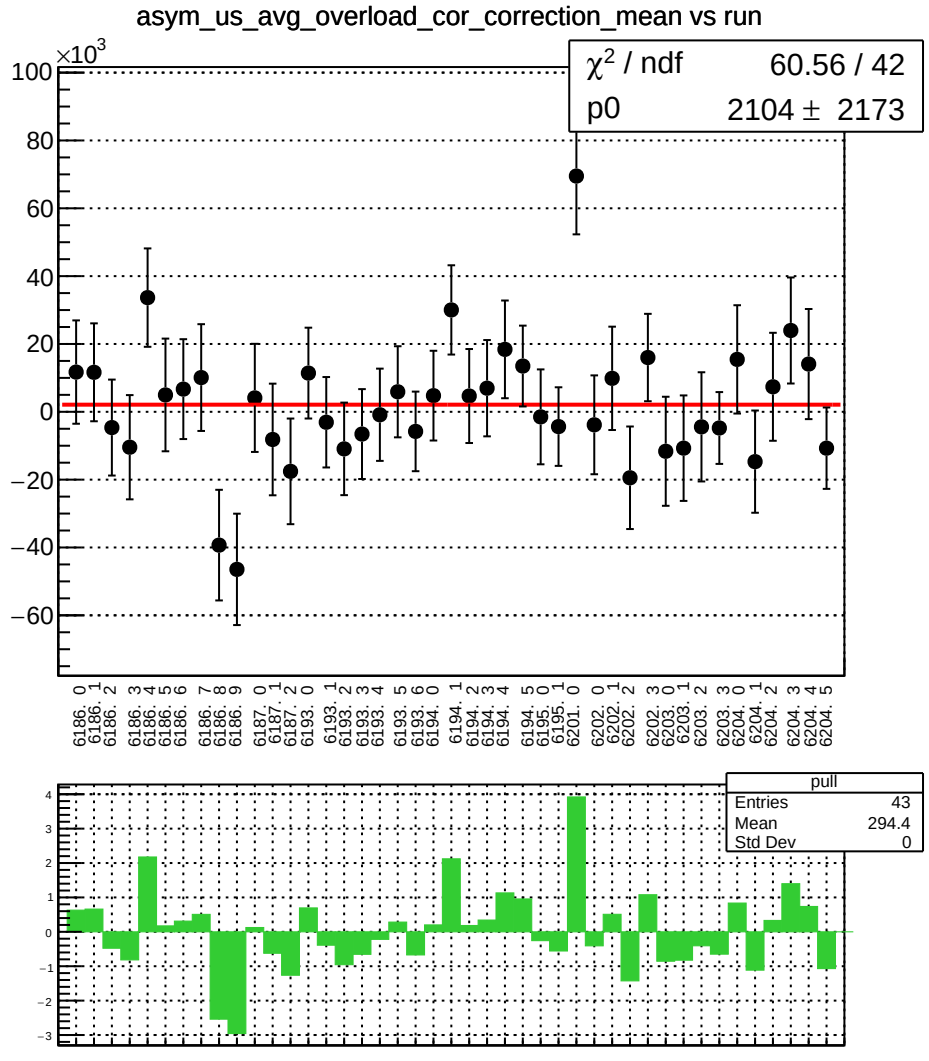

asym_us_avg_cor_correction_mean vs run
×10^3
χ² / ndf 61.61 / 42
p0 2108 ± 2171
pull
Entries 43
Mean 267.3
Std Dev 0

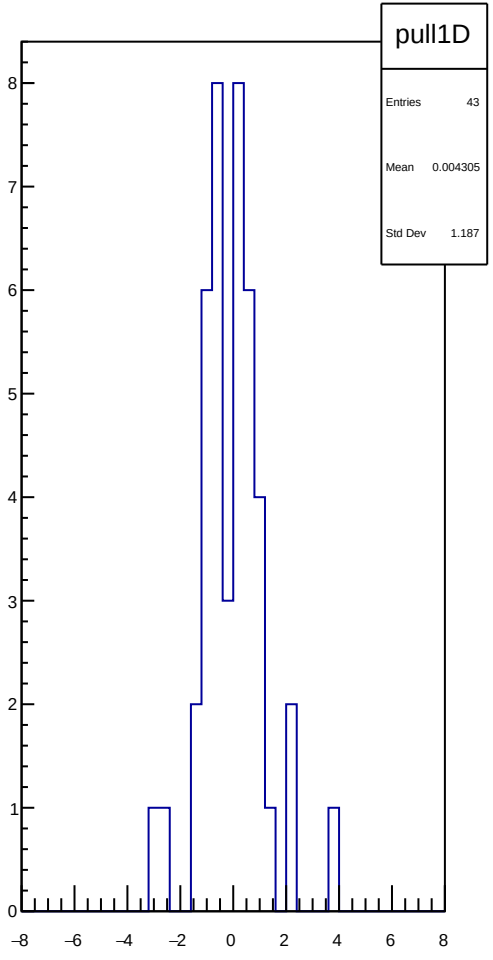

pull1D
Entries 43
Mean 0.004575
Std Dev 1.197

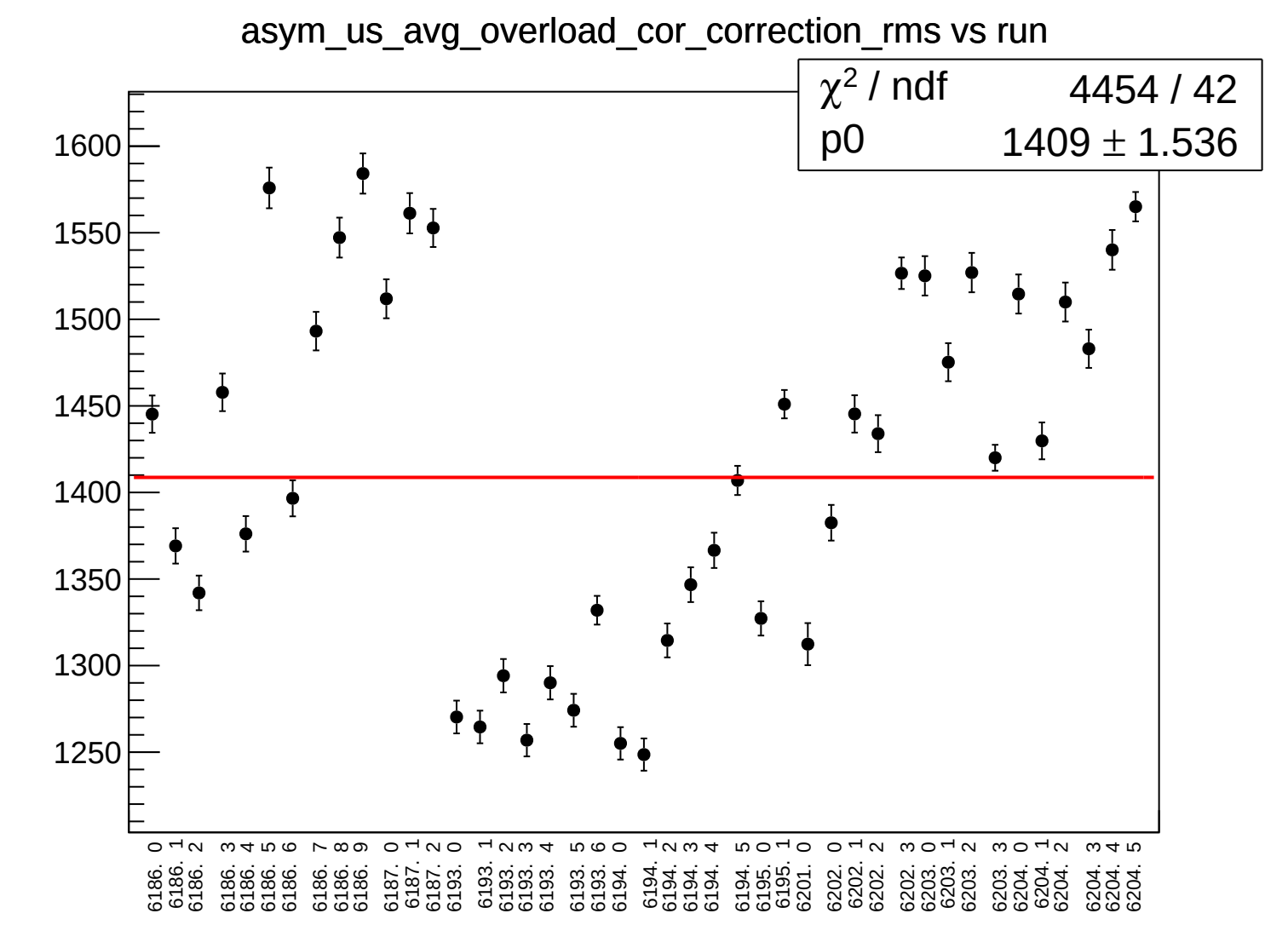

asym_us_avg_cor_correction_rms vs run
χ² / ndf 4462 / 42
p0 1408 ± 1.535
1600
1550
1500
1450
1400
1350
1300
1250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

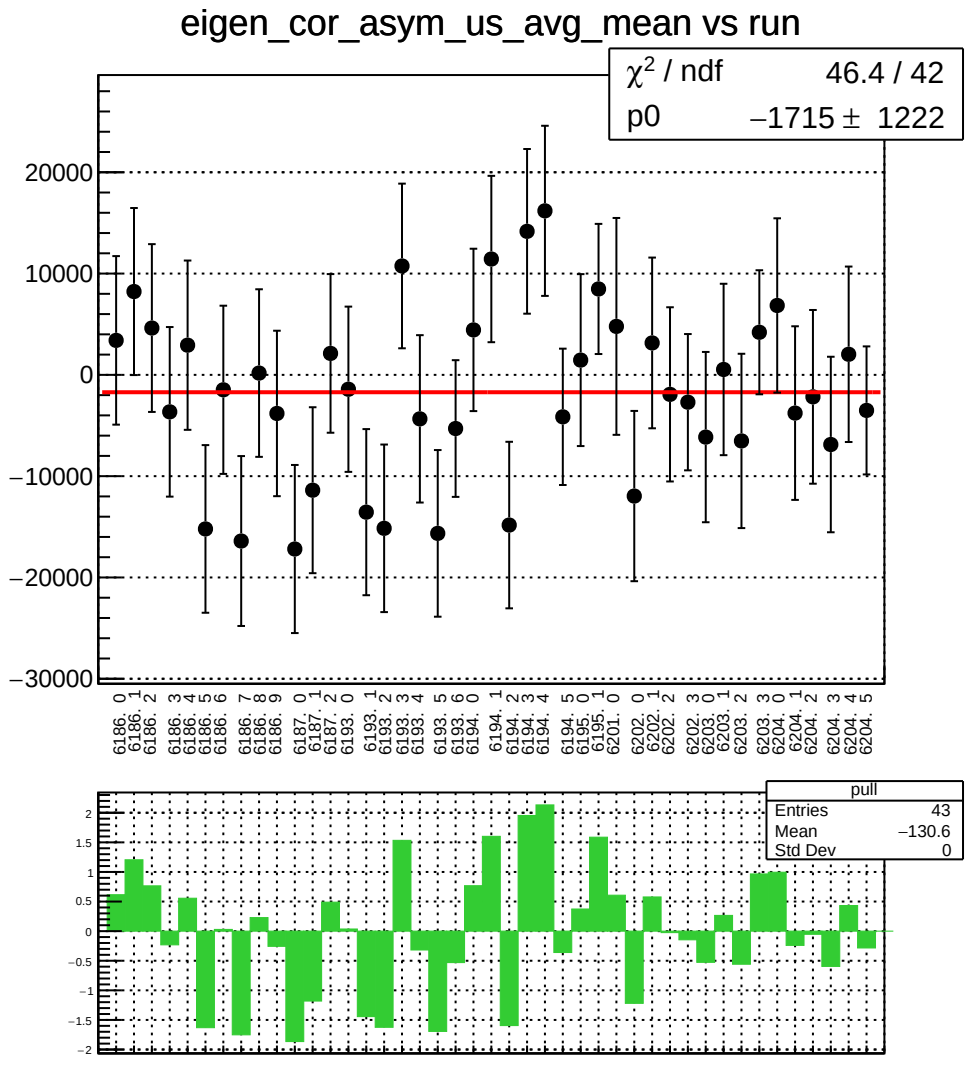

overload_cor_asym_us_avg_mean vs run
χ² / ndf 46.3 / 42
p0 −1724 ± 1219
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −139.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.009586
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

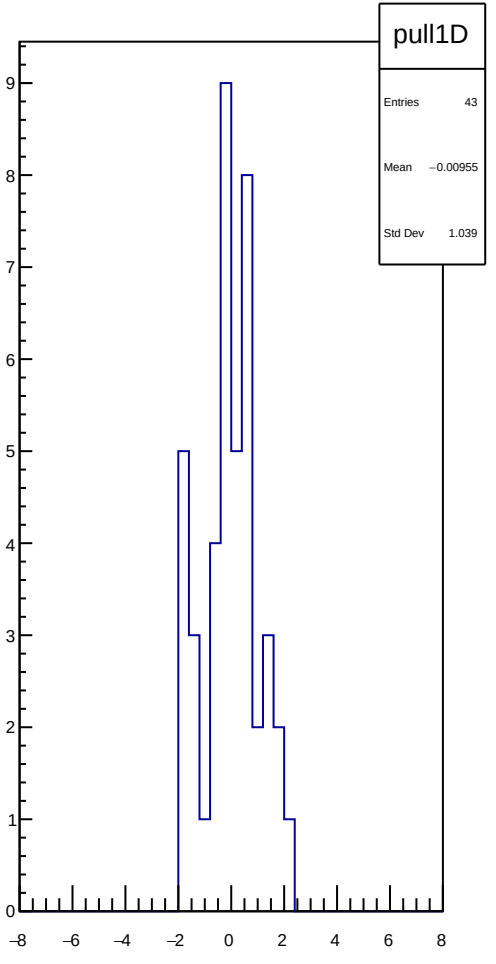

overload_cor_asym_us_avg_rms vs run
χ² / ndf 388.9 / 42
p0 792.2 ± 0.8618
830
820
810
800
790
780
770
760
750
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

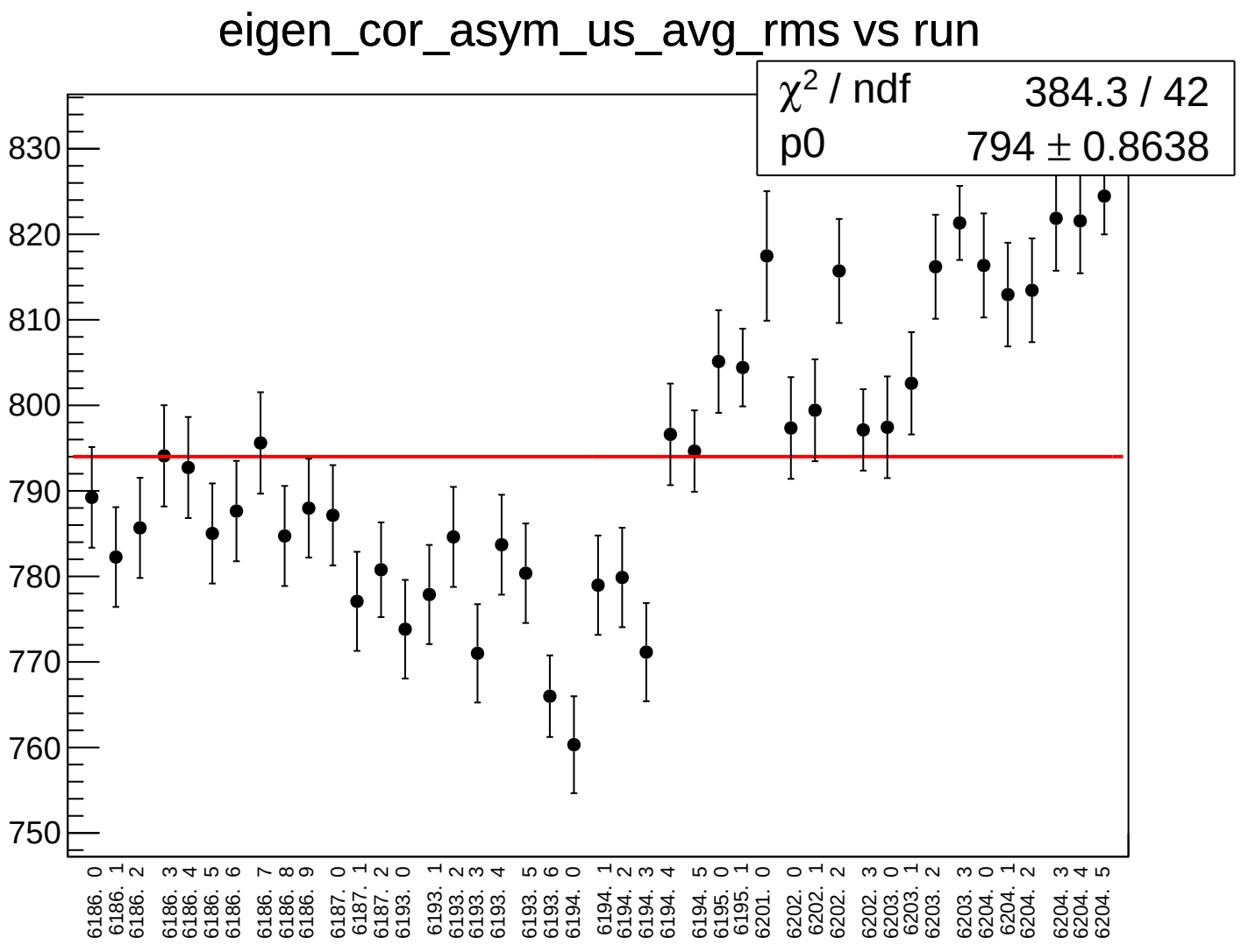

asym_us_avg_overload_cor_correction_mean vs run
×10^3
χ² / ndf 60.56 / 42
p0 2104 ± 2173
pull
Entries 43
Mean 294.4
Std Dev 0

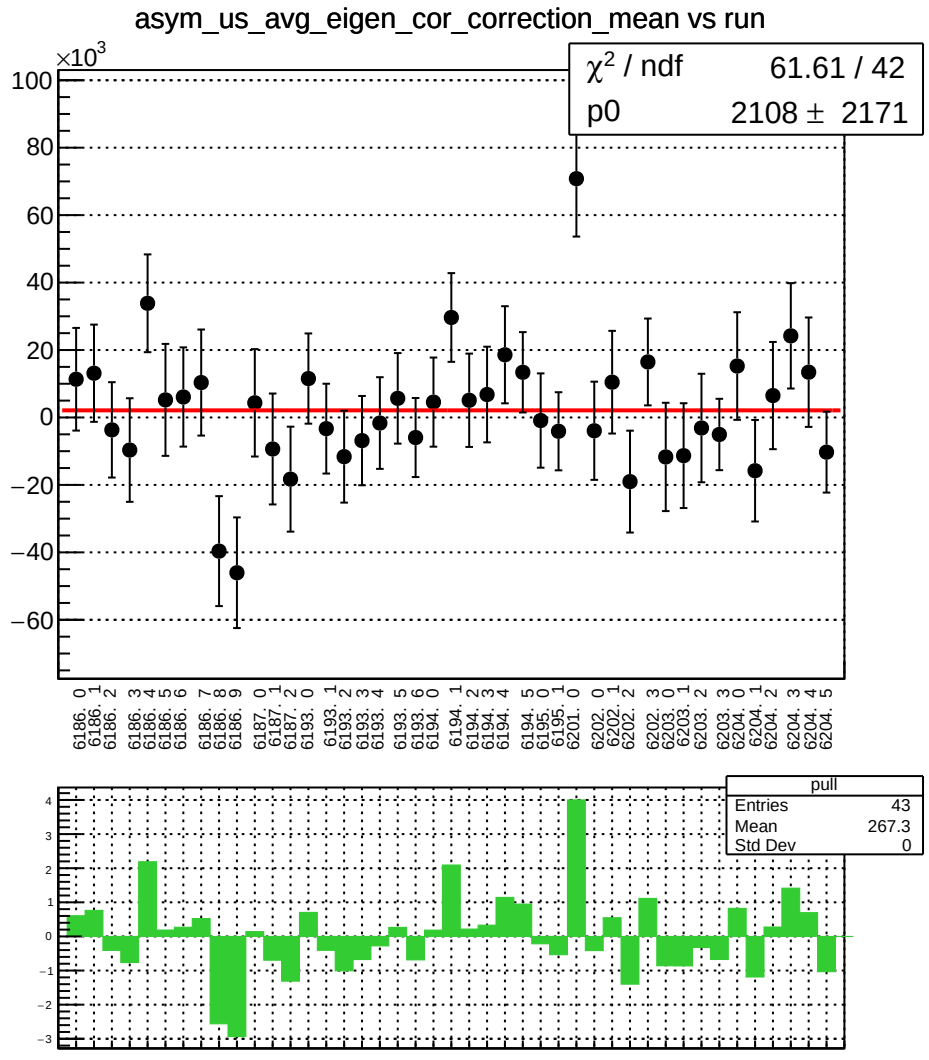

pull1D
Entries 43
Mean 0.004305
Std Dev 1.187

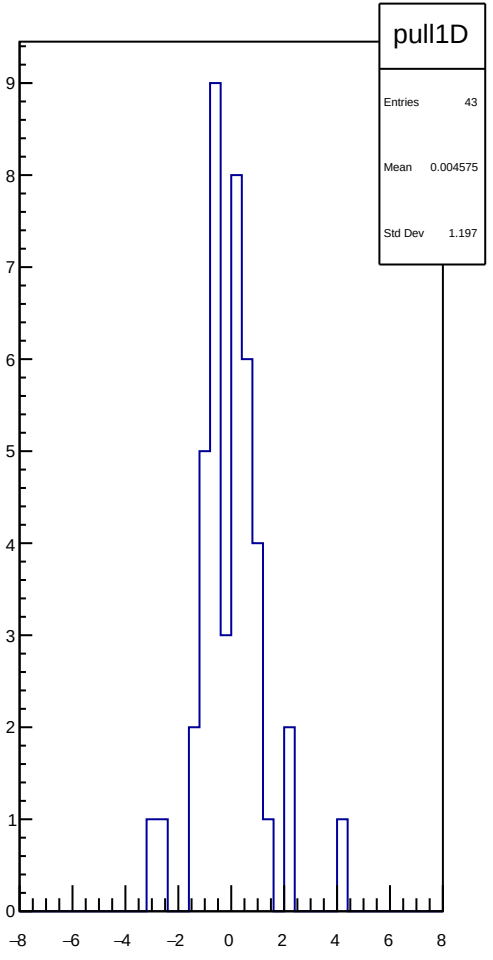

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 4454 / 42
p0 1409 ± 1.536
1600
1550
1500
1450
1400
1350
1300
1250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

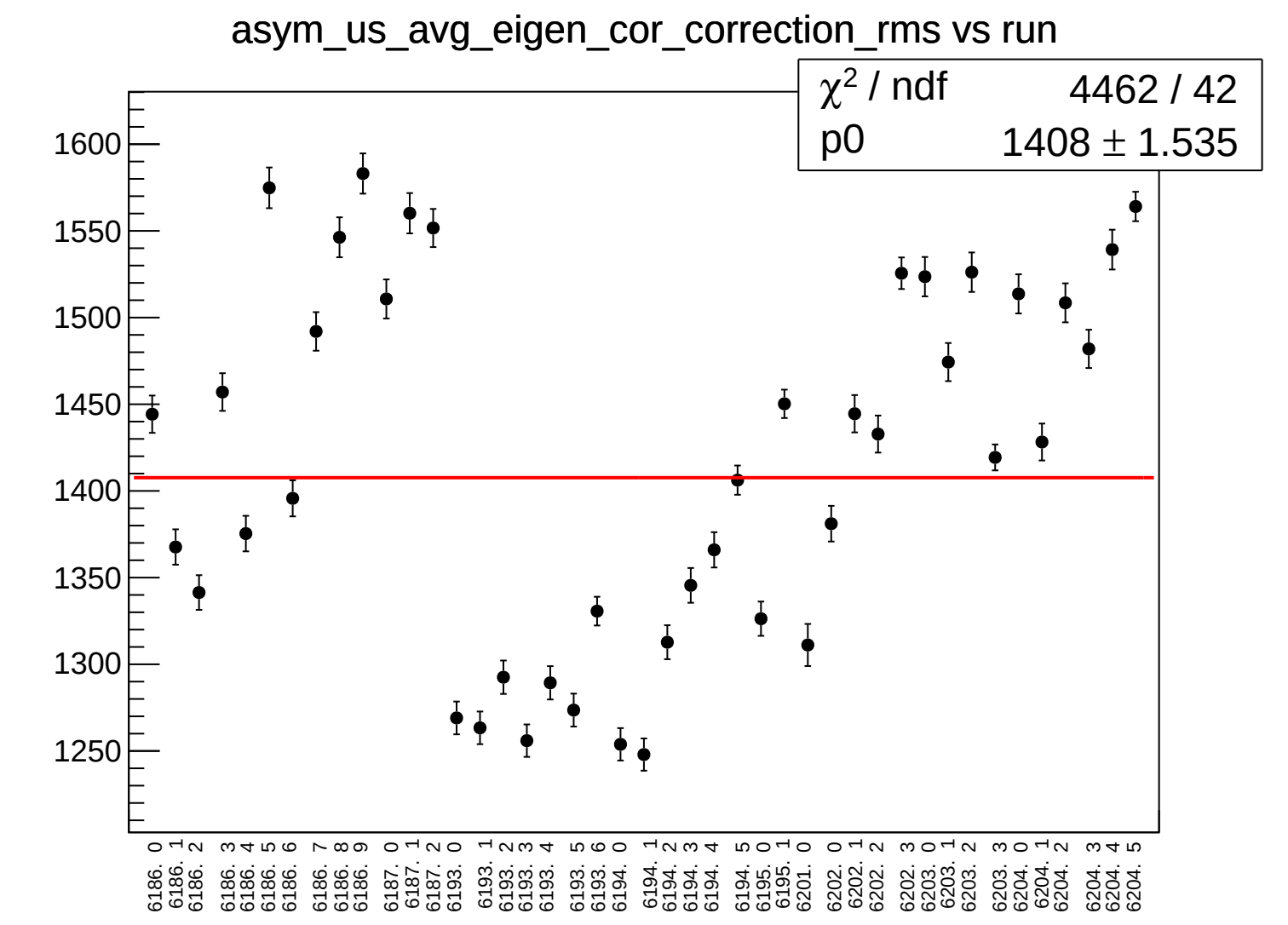

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 46.4 / 42
p0 −1715 ± 1222
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −130.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

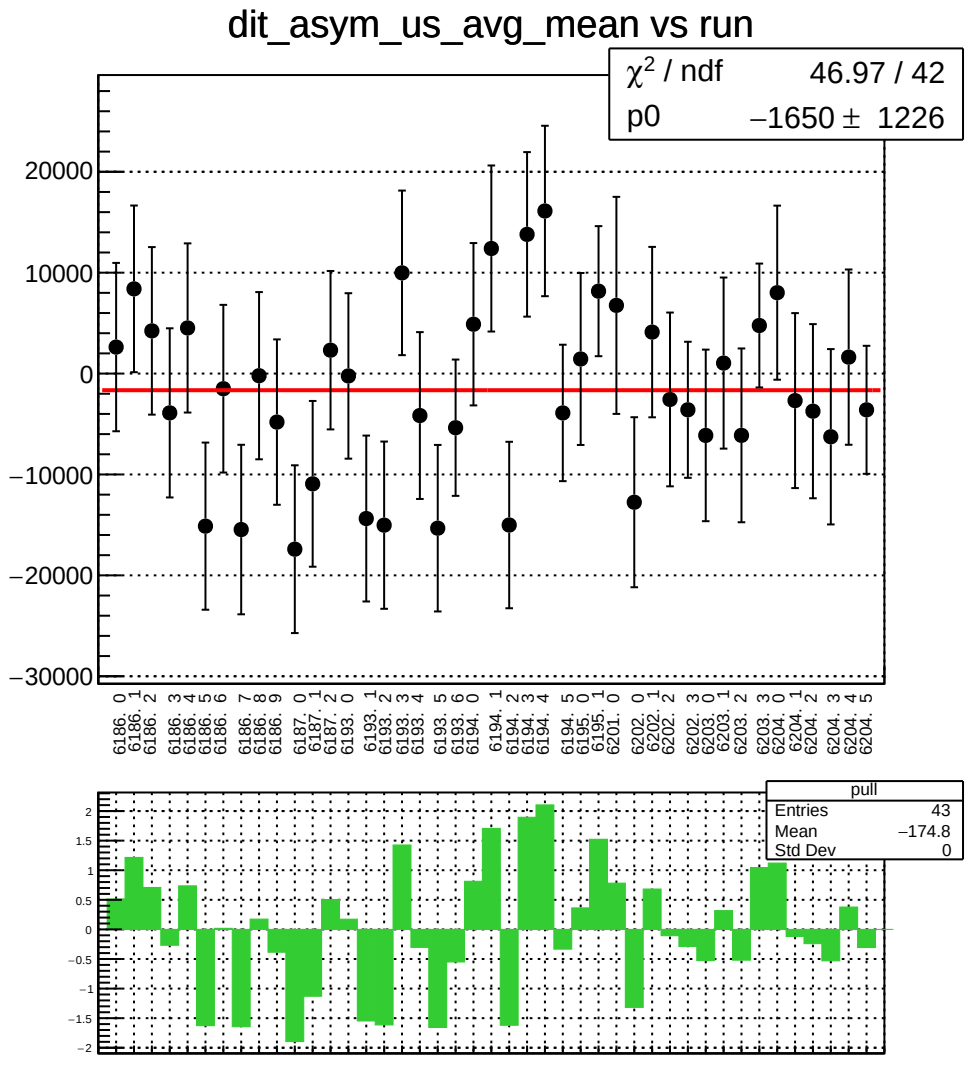

pull1D
Entries 43
Mean −0.00955
Std Dev 1.039
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

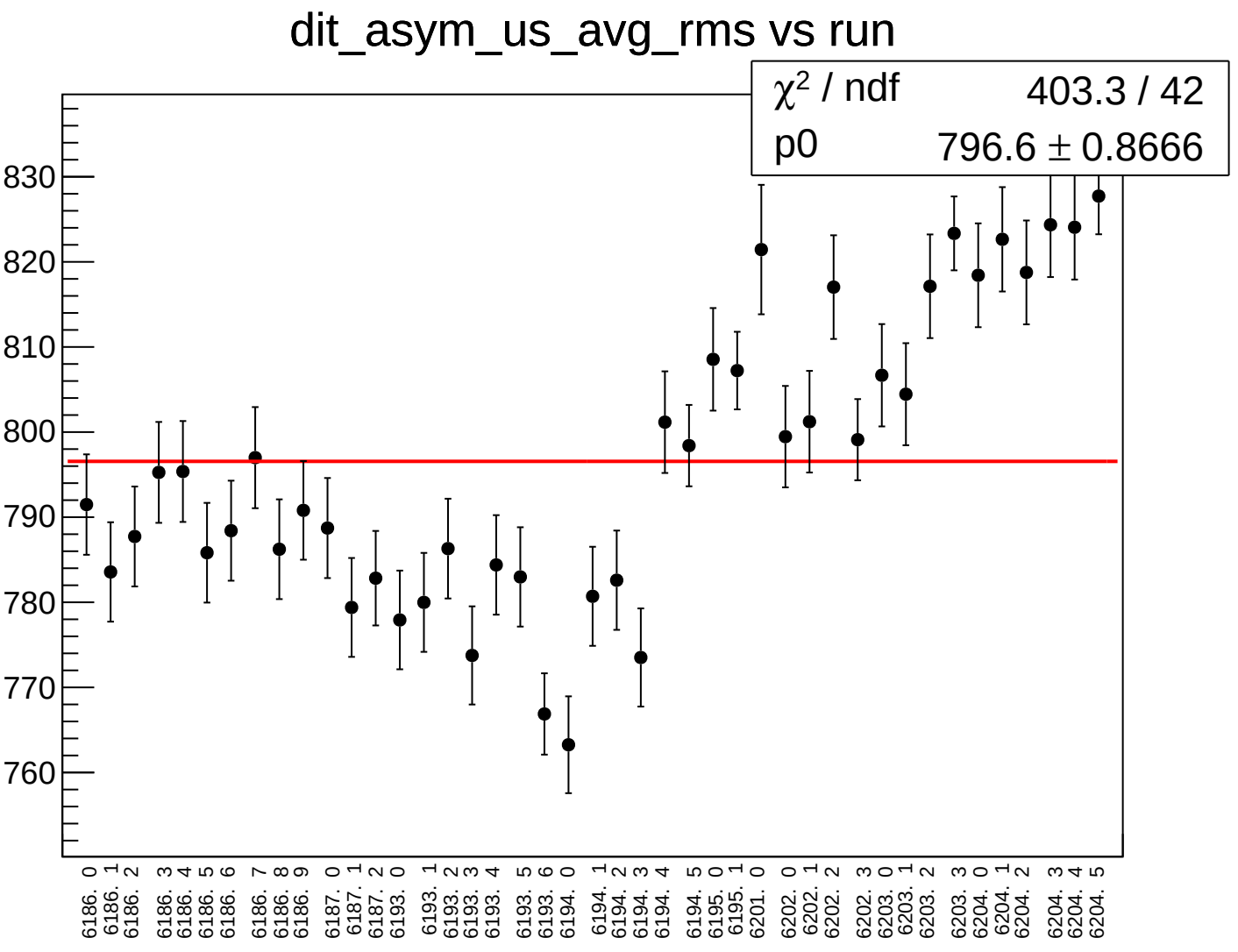

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 384.3 / 42
p0 794 ± 0.8638
830
820
810
800
790
780
770
760
750
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

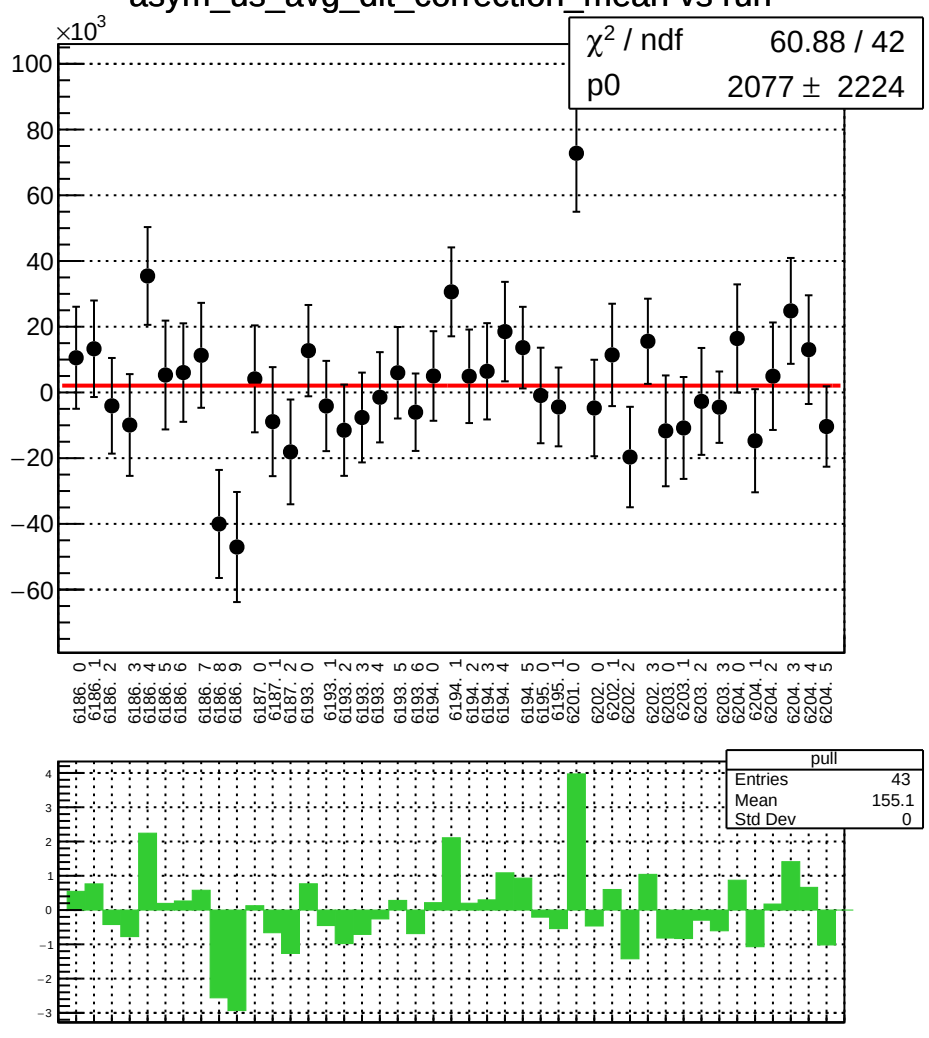

asym_us_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 61.61 / 42
p0 2108 ± 2171
pull
Entries 43
Mean 267.3
Std Dev 0

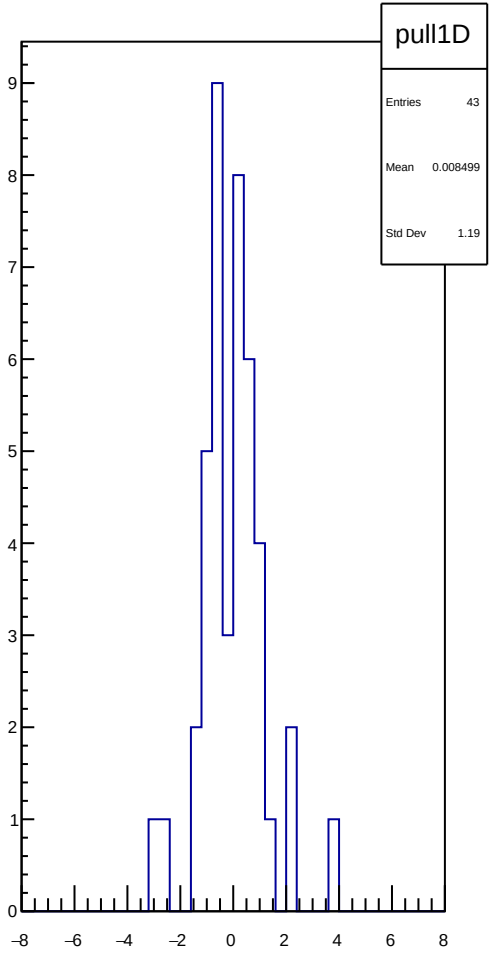

pull1D
Entries 43
Mean 0.004575
Std Dev 1.197

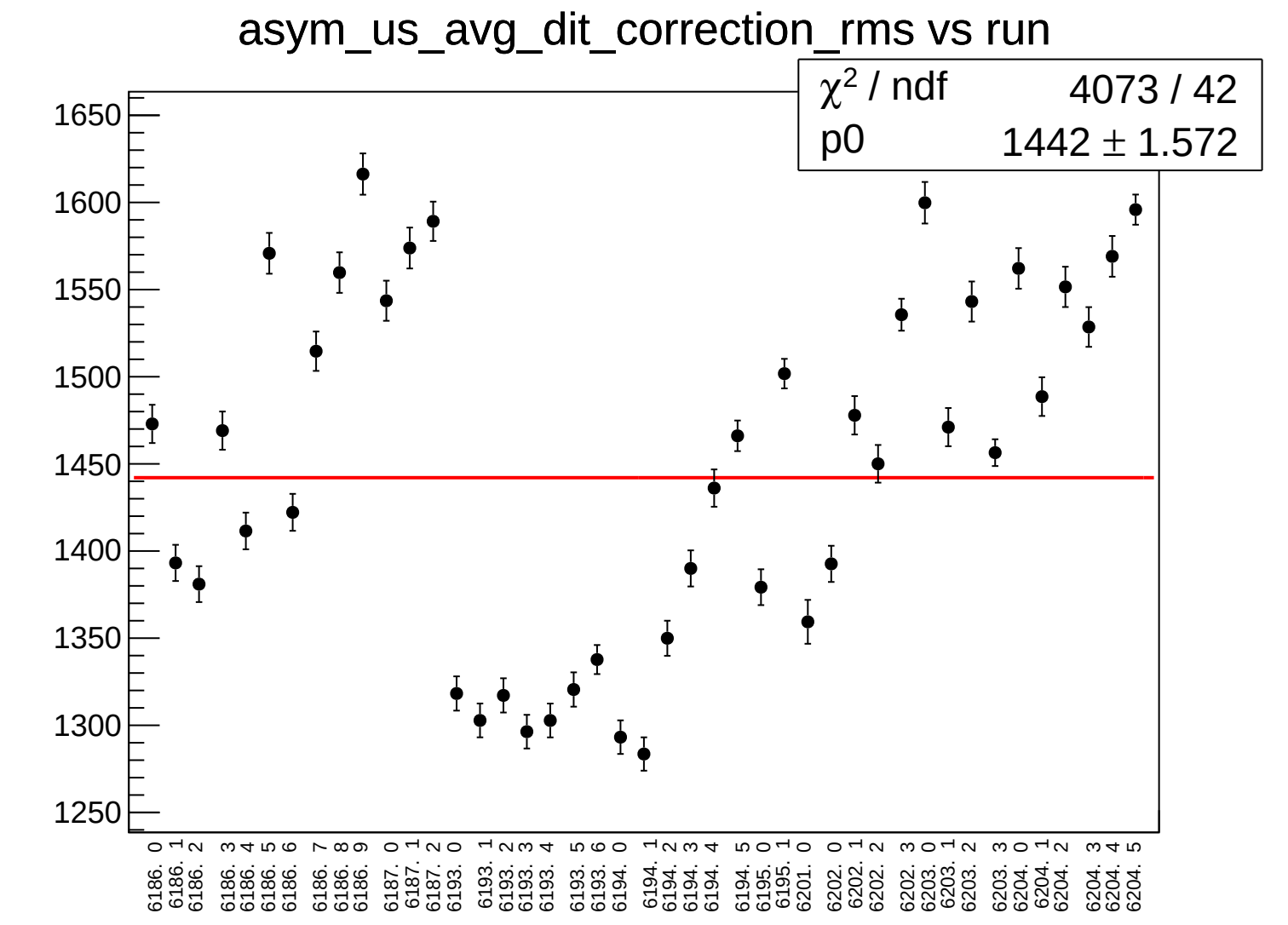

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 4462 / 42
p0 1408 ± 1.535
1600
1550
1500
1450
1400
1350
1300
1250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

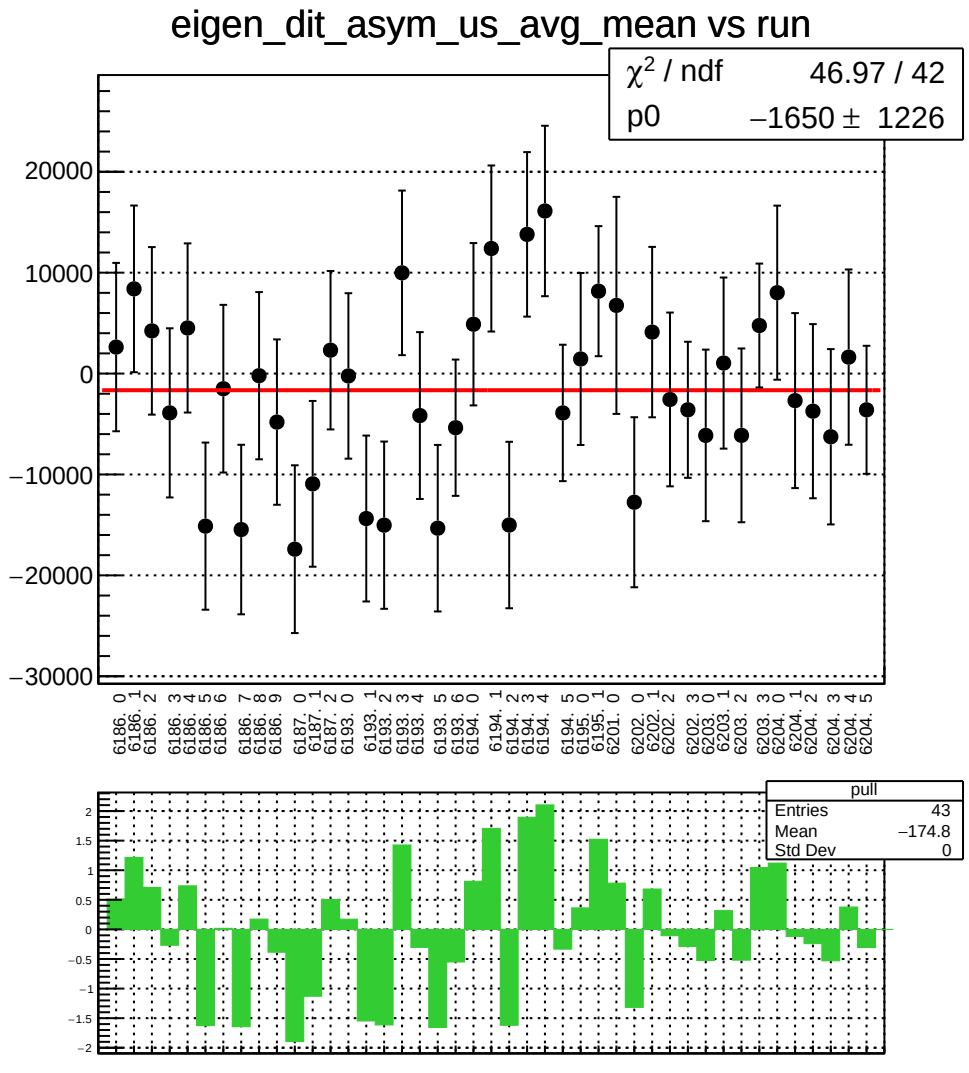

dit_asym_us_avg_mean vs run
χ² / ndf 46.97 / 42
p0 −1650 ± 1226
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −174.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.007669
Std Dev 1.045
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

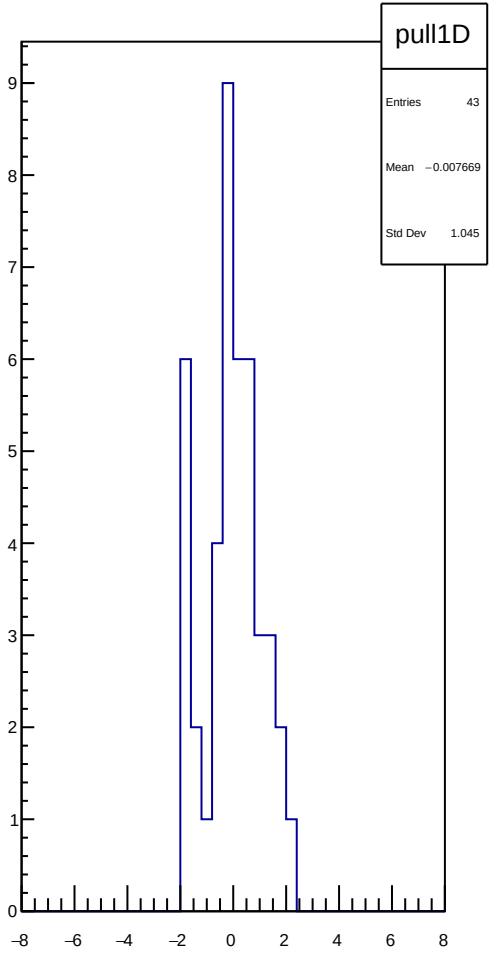

dit_asym_us_avg_rms vs run
χ² / ndf 403.3 / 42
p0 796.6 ± 0.8666
830
820
810
800
790
780
770
760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

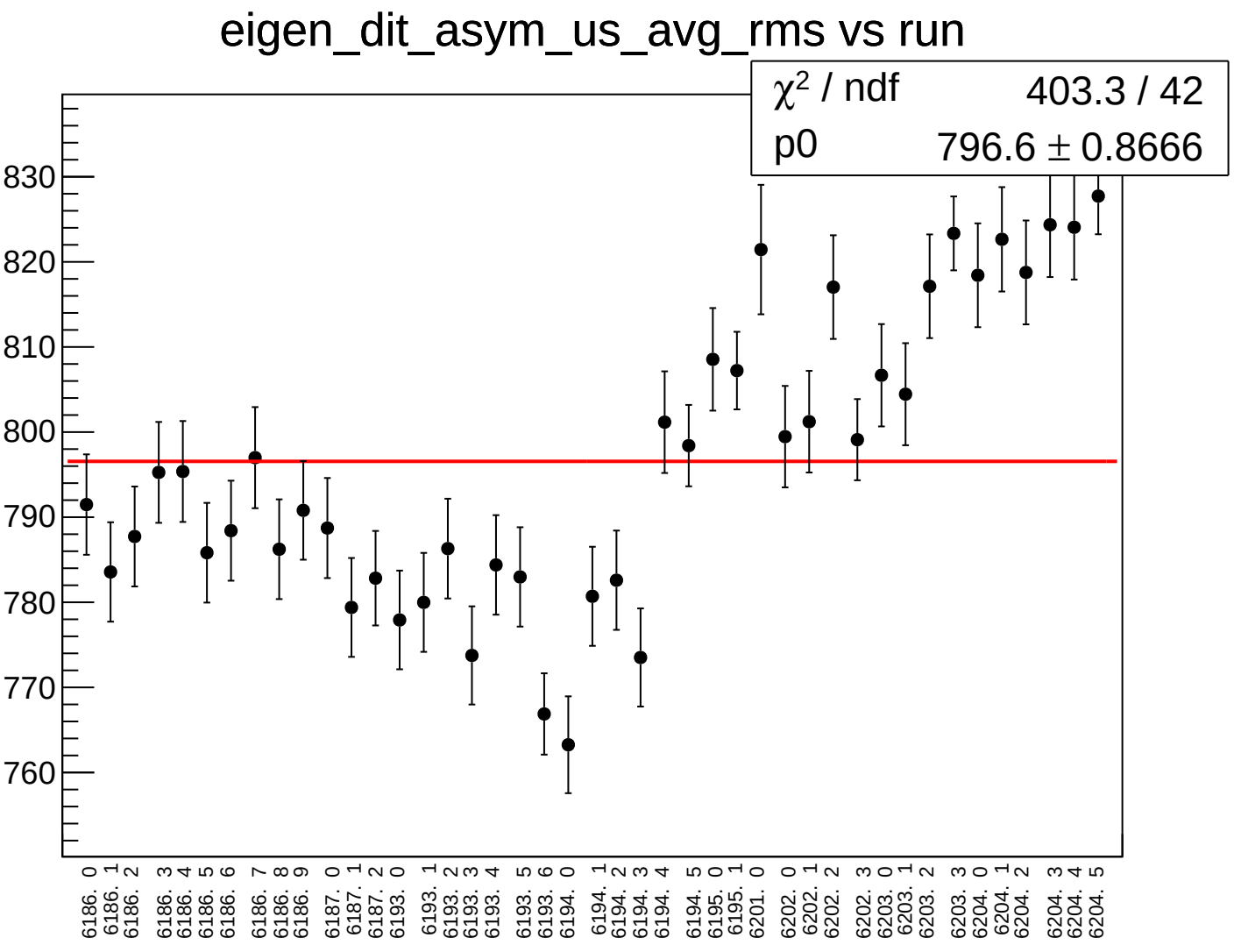

asym_us_avg_dit_correction_mean vs run
×10^3
χ² / ndf 60.88 / 42
p0 2077 ± 2224
100
80
60
40
20
0
−20
−40
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 155.1
Std Dev 0
4
3
2
1
0
−1
−2
−3

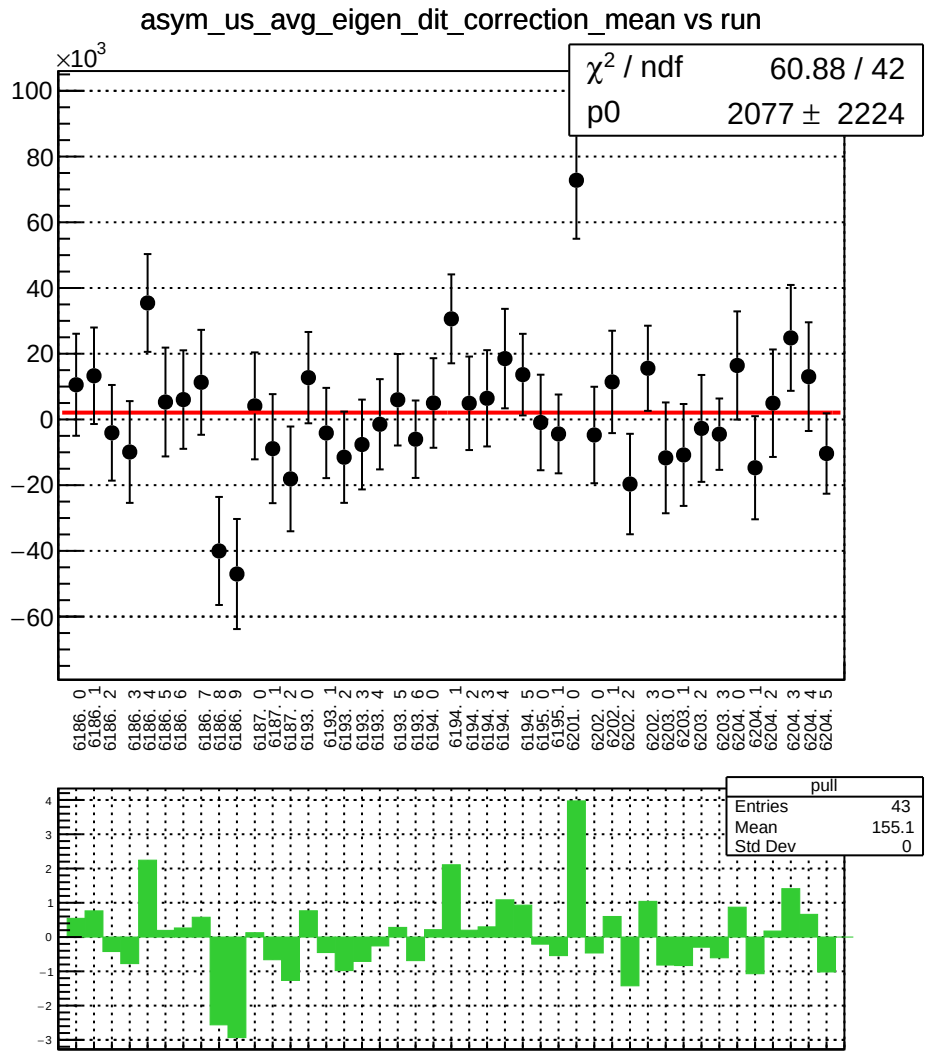

pull1D
Entries 43
Mean 0.008499
Std Dev 1.19
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

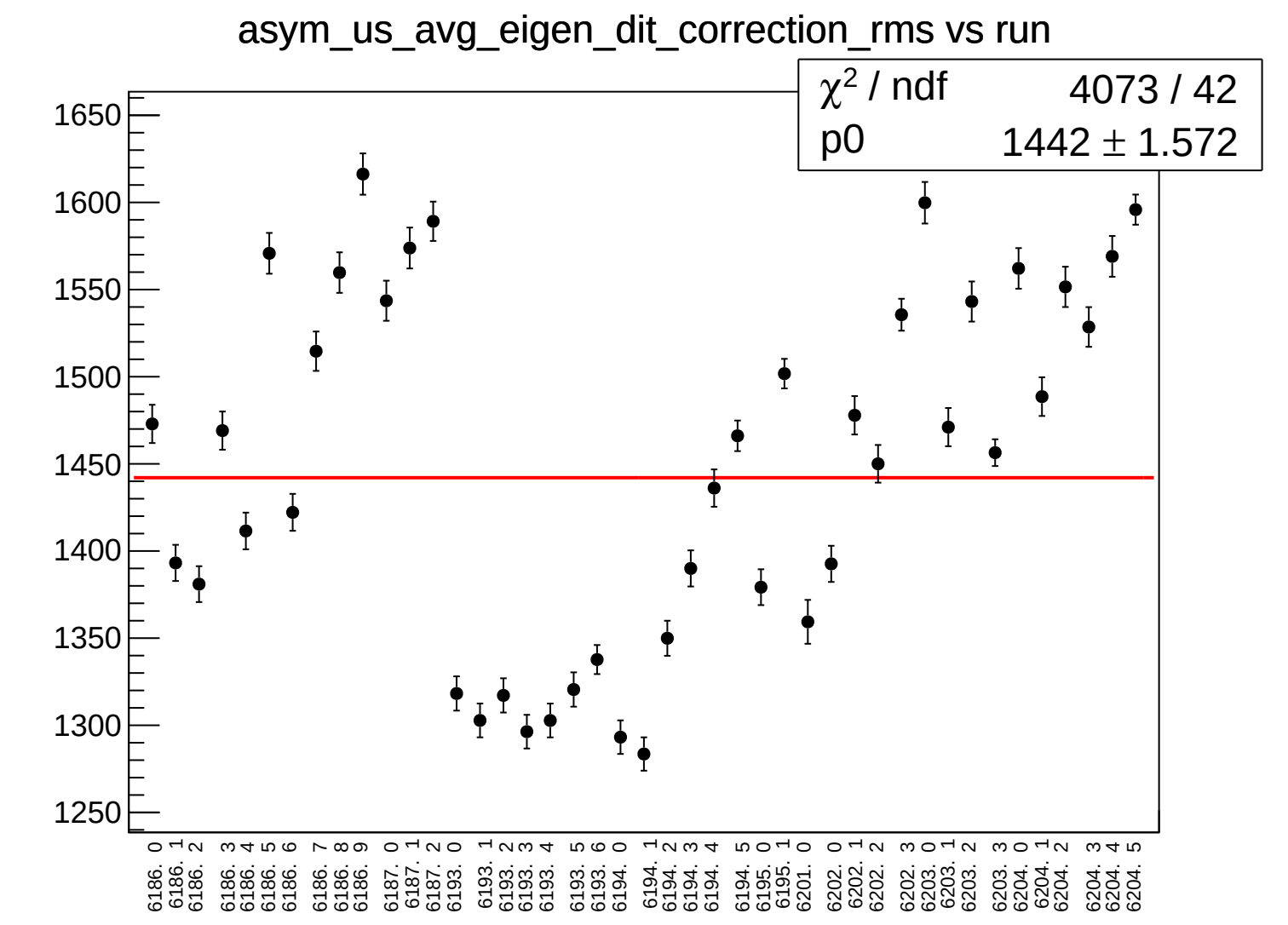

asym_us_avg_dit_correction_rms vs run
χ² / ndf 4073 / 42
p0 1442 ± 1.572
1650
1600
1550
1500
1450
1400
1350
1300
1250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

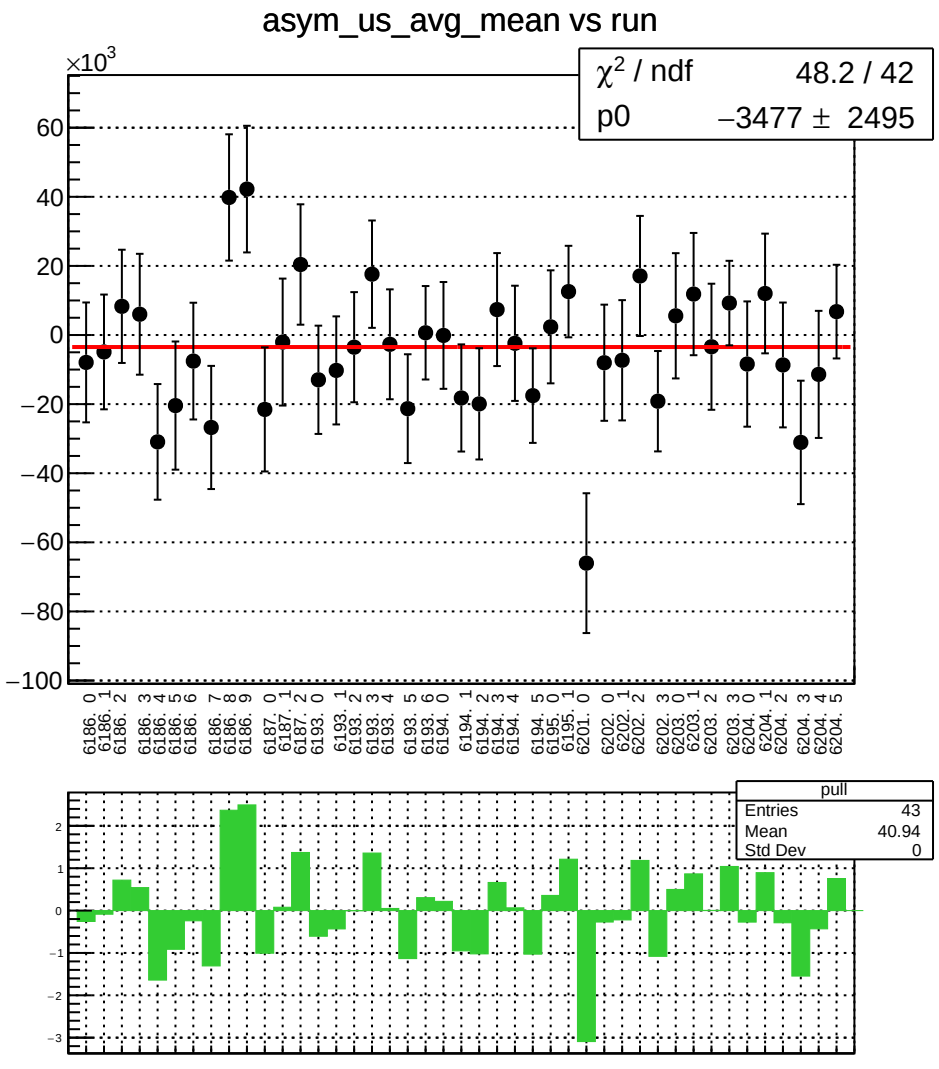

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 46.97 / 42
p0 −1650 ± 1226
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −174.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

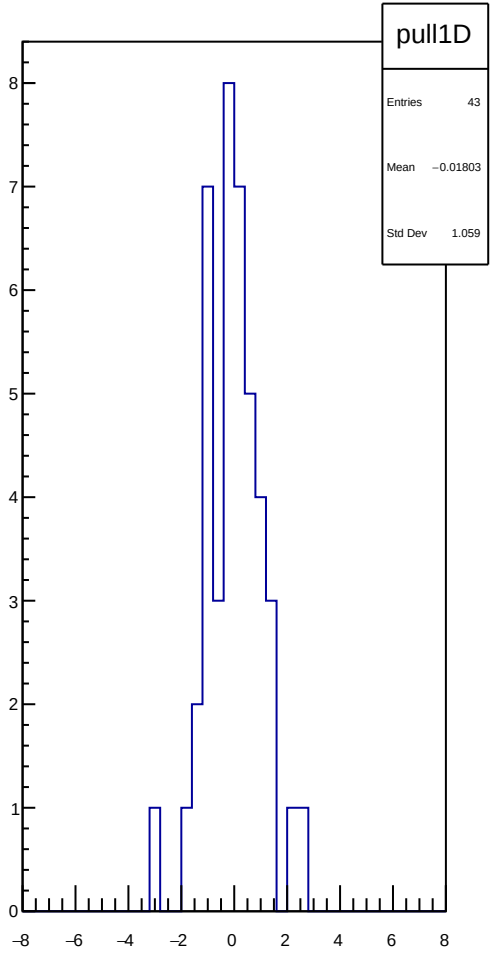

pull1D
Entries 43
Mean −0.007669
Std Dev 1.045
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

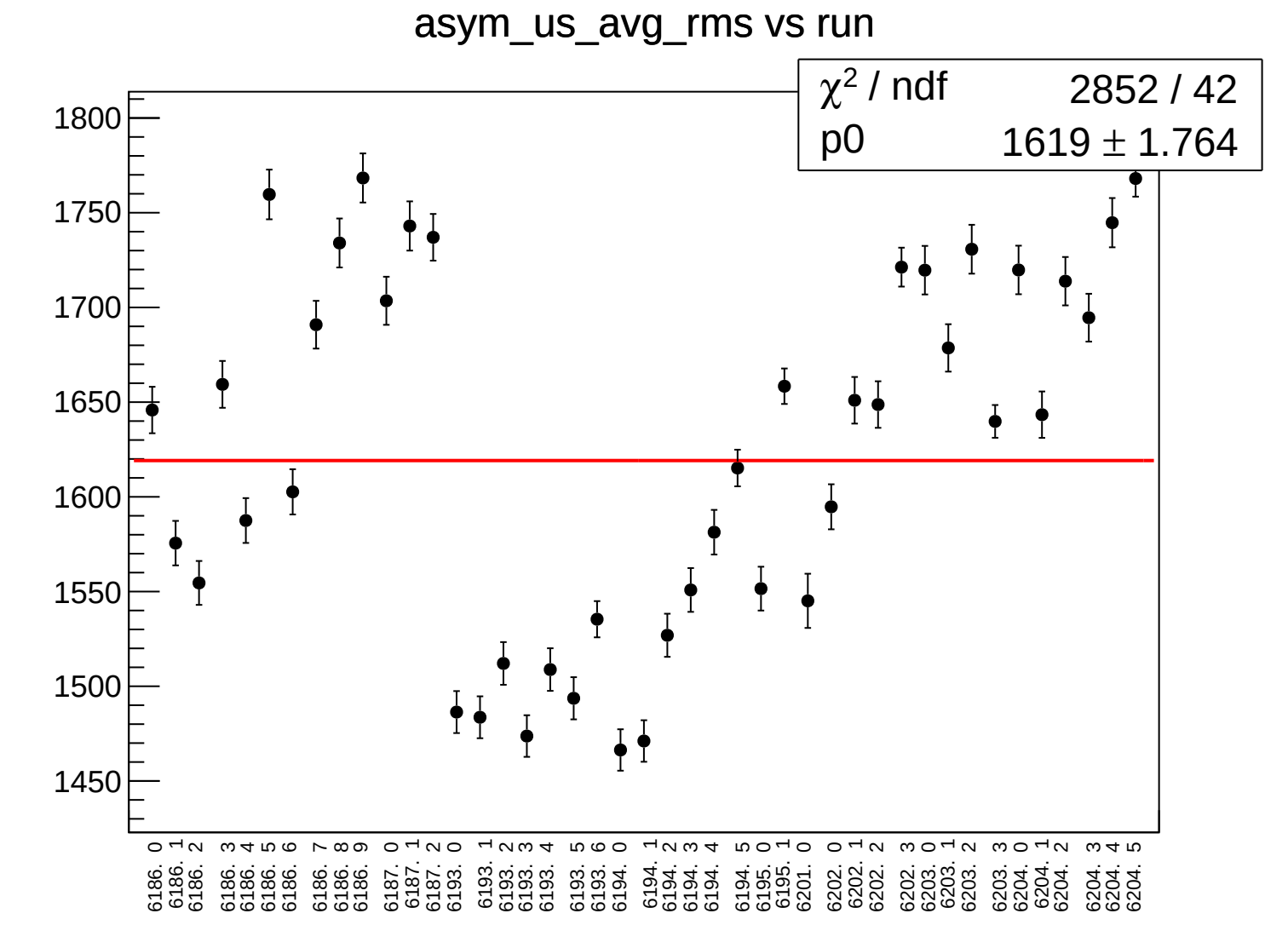

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 403.3 / 42
p0 796.6 ± 0.8666
830
820
810
800
790
780
770
760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

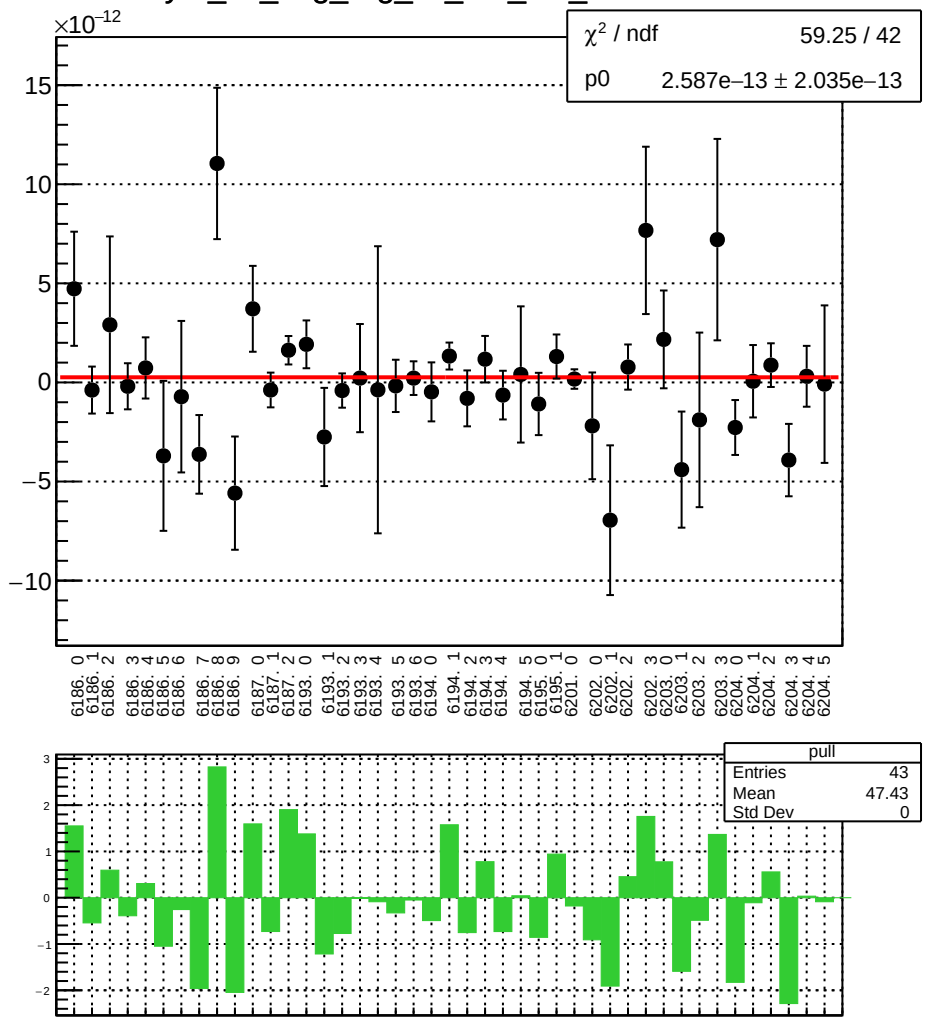

asym_us_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 60.88 / 42
p0 2077 ± 2224
100
80
60
40
20
0
−20
−40
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 155.1
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.0085
Std Dev 1.19
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

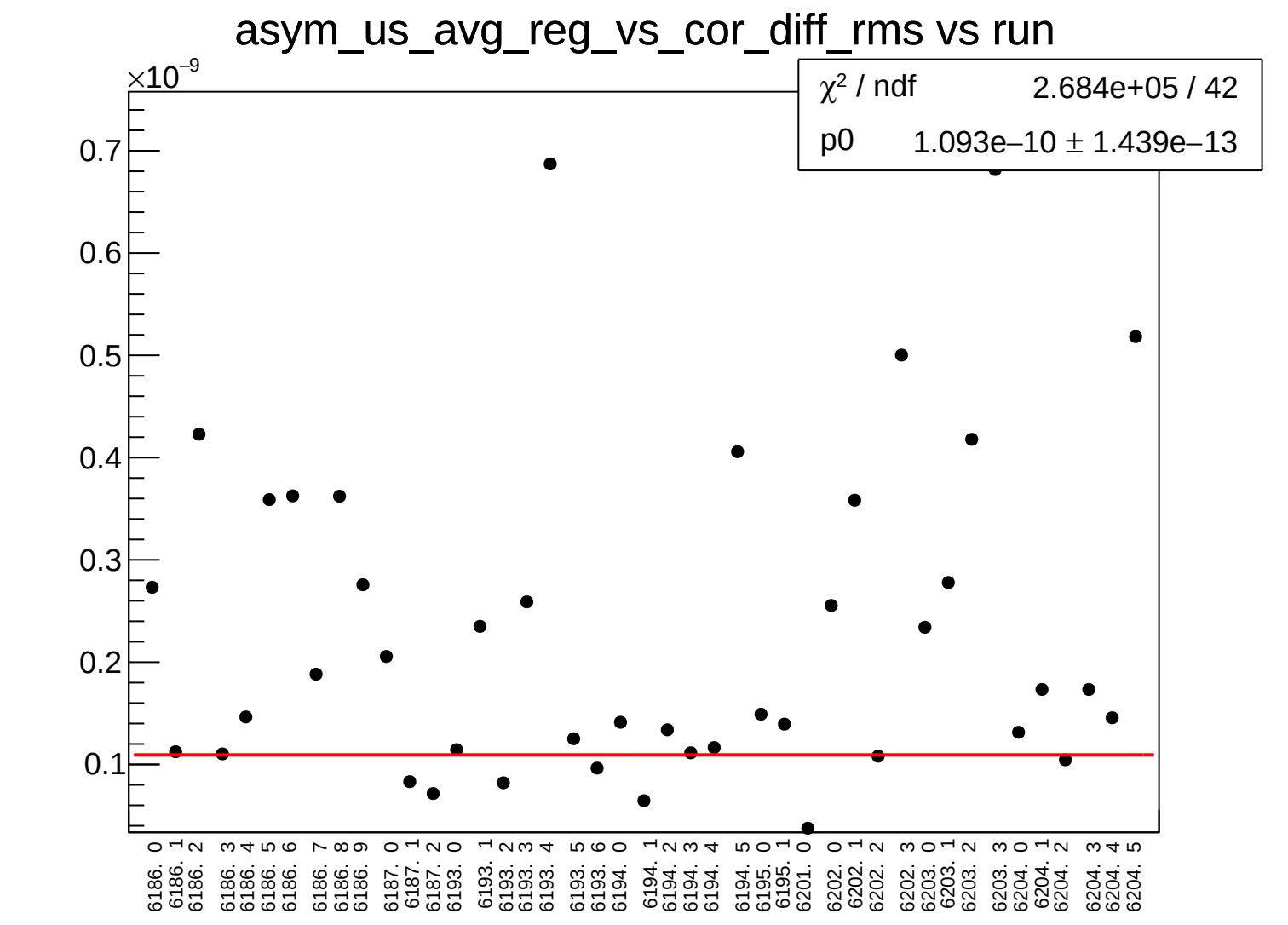

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 4073 / 42
p0 1442 ± 1.572
1650
1600
1550
1500
1450
1400
1350
1300
1250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

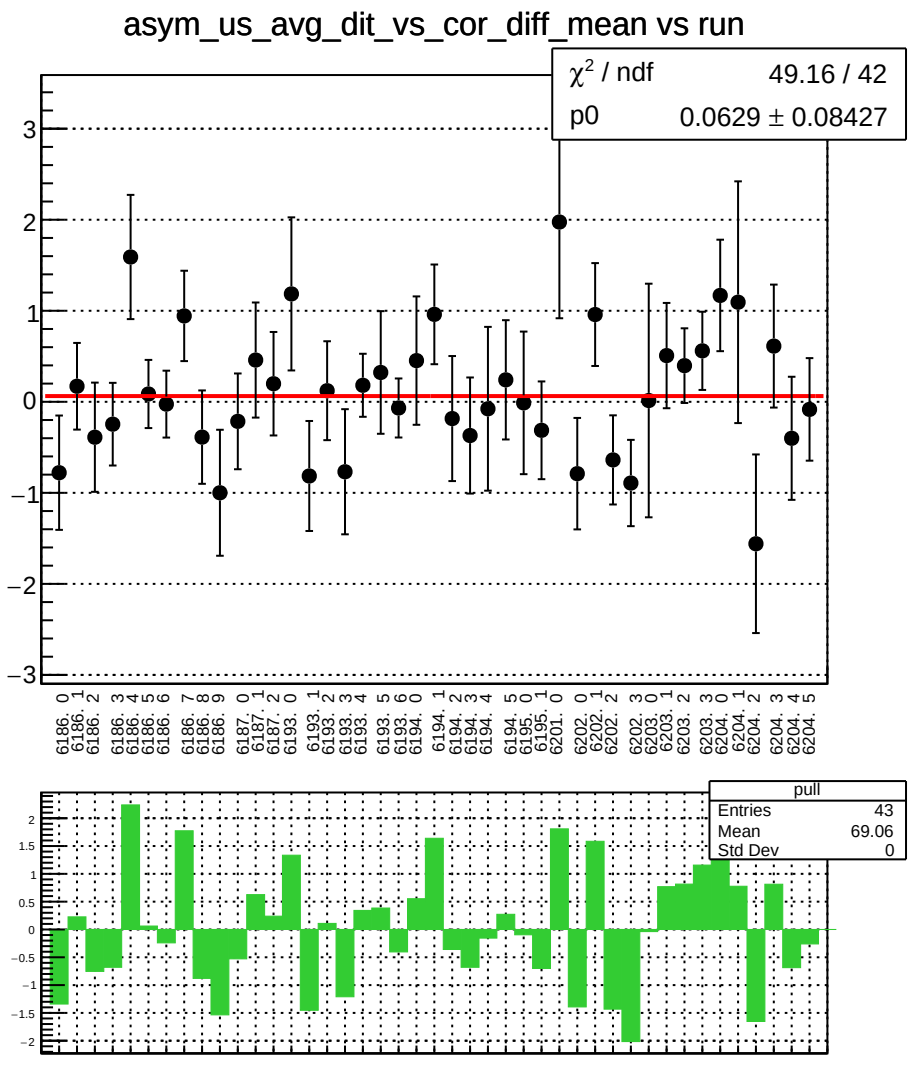

asym_us_avg_mean vs run
×10^3
χ² / ndf 48.2 / 42
p0 −3477 ± 2495
60
40
20
0
−20
−40
−60
−80
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 40.94
Std Dev 0
2
1
0
−1
−2
−3

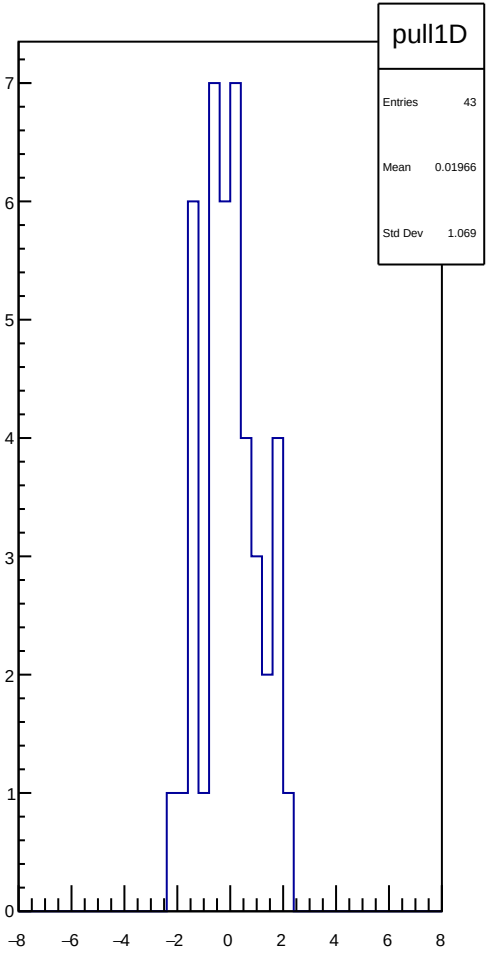

pull1D
Entries 43
Mean −0.01803
Std Dev 1.059
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

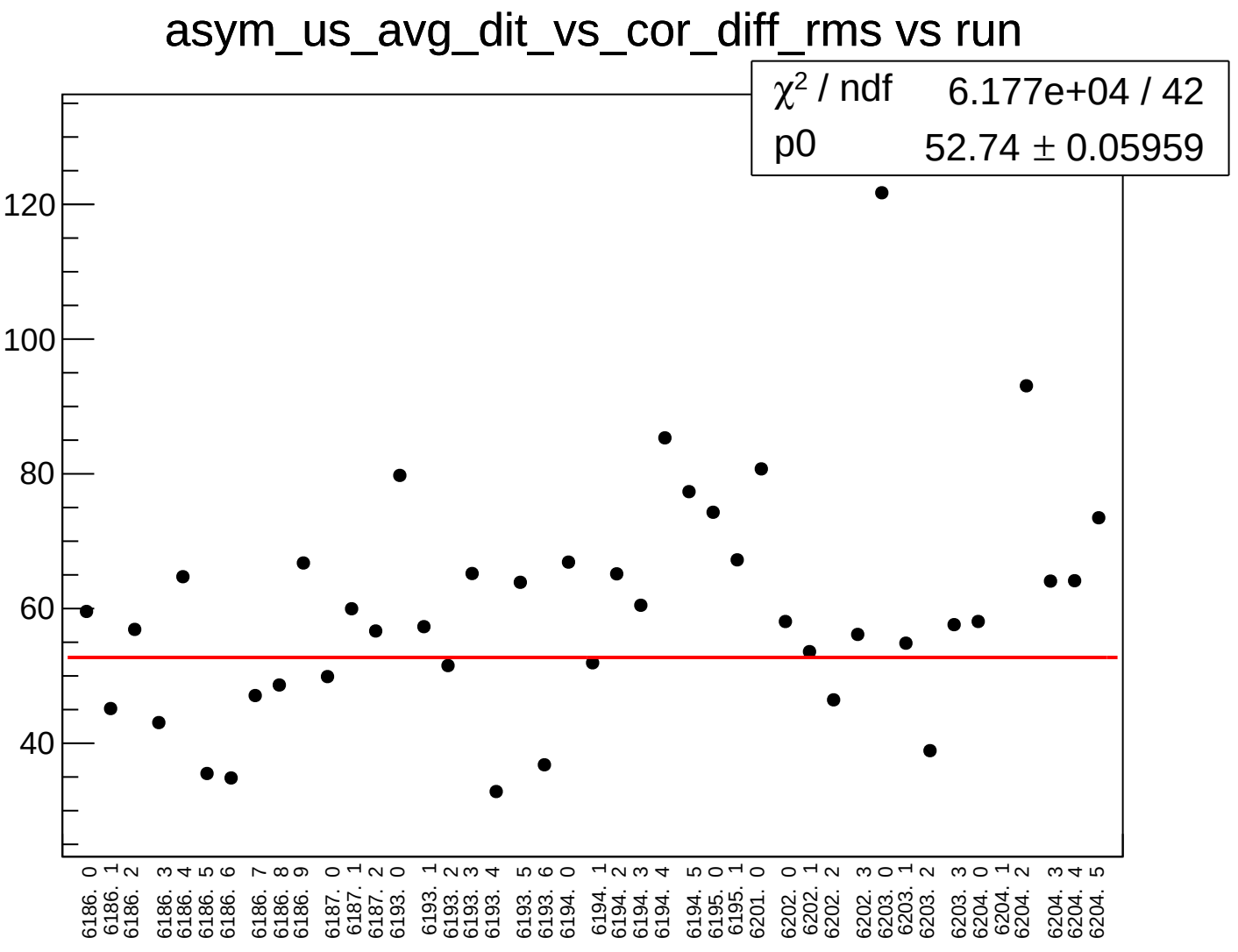

asym_us_avg_rms vs run
χ² / ndf 2852 / 42
p0 1619 ± 1.764
1800
1750
1700
1650
1600
1550
1500
1450
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

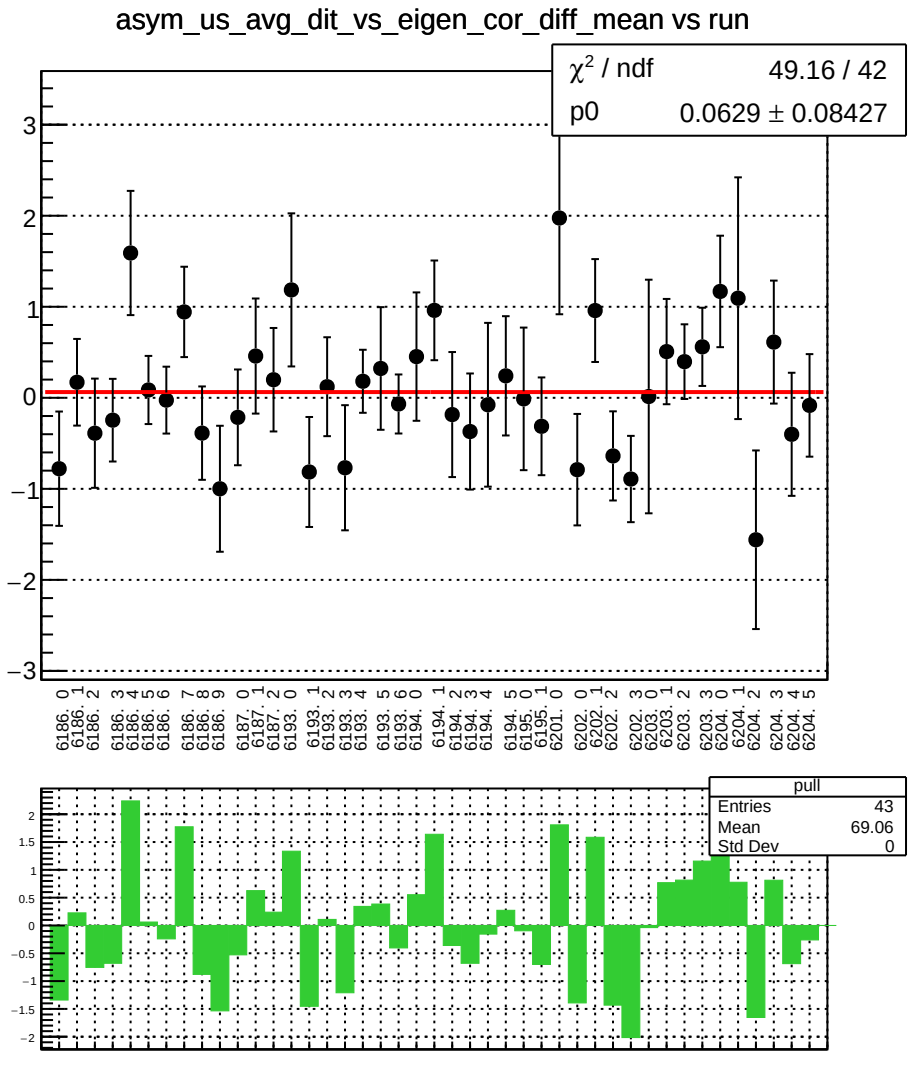

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 59.25 / 42
p0 2.587e−13 ± 2.035e−13
15
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 47.43
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.07504
Std Dev 1.171
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

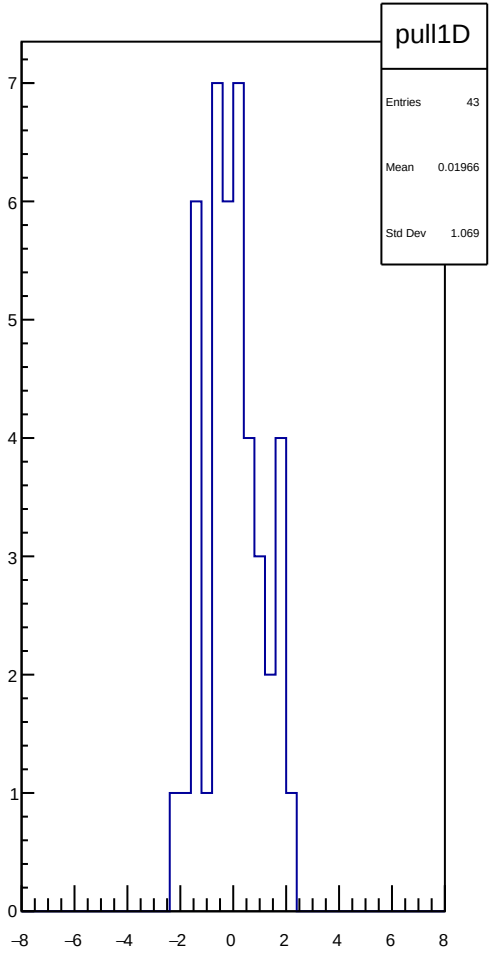

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.684e+05 / 42
p0 1.093e−10 ± 1.439e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

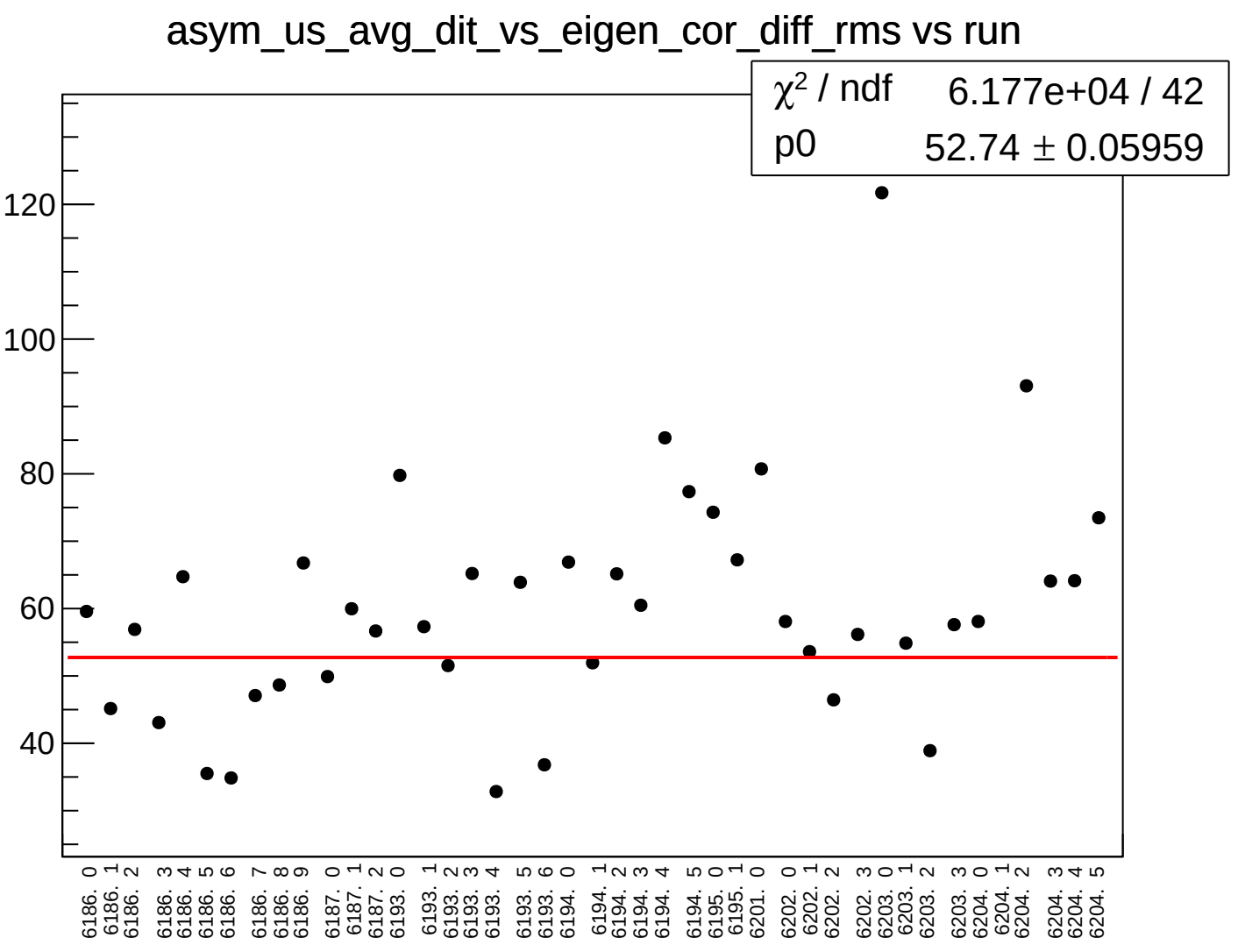

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 49.16 / 42
p0 0.0629 ± 0.08427
pull
Entries 43
Mean 69.06
Std Dev 0

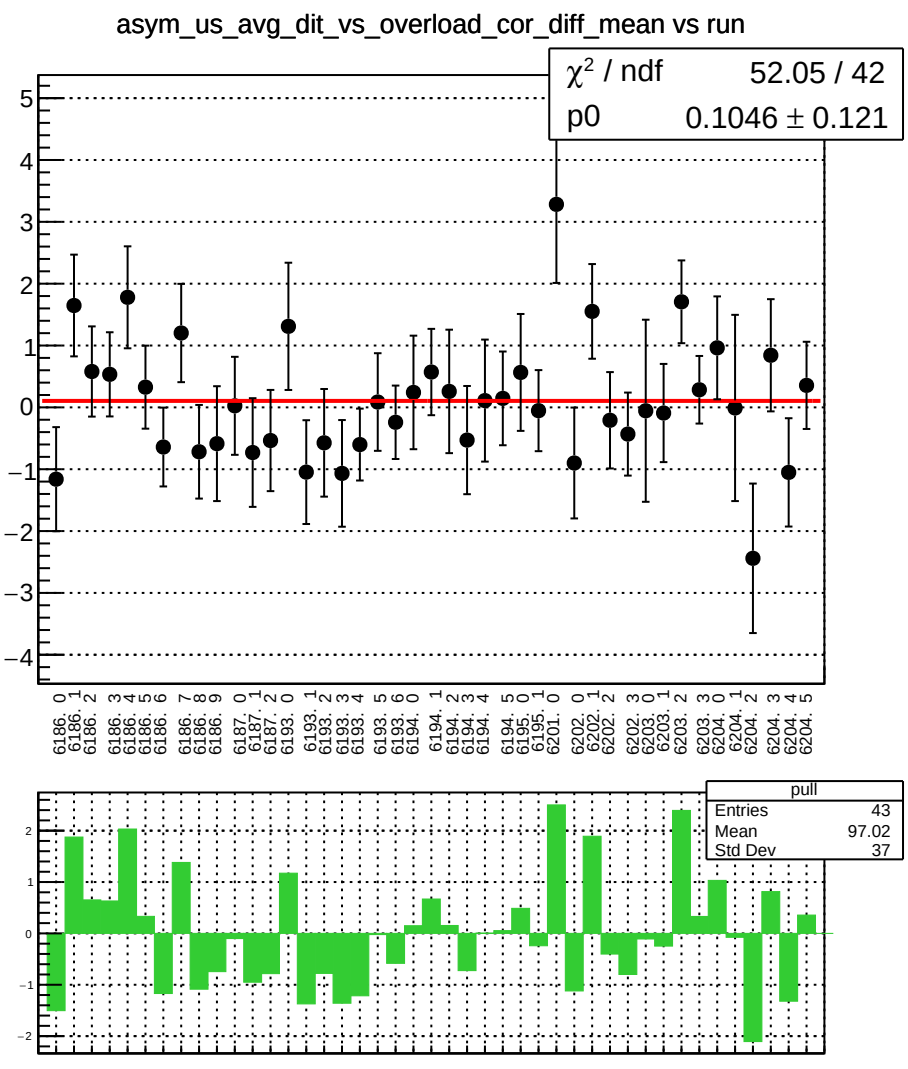

pull1D
Entries 43
Mean 0.01966
Std Dev 1.069

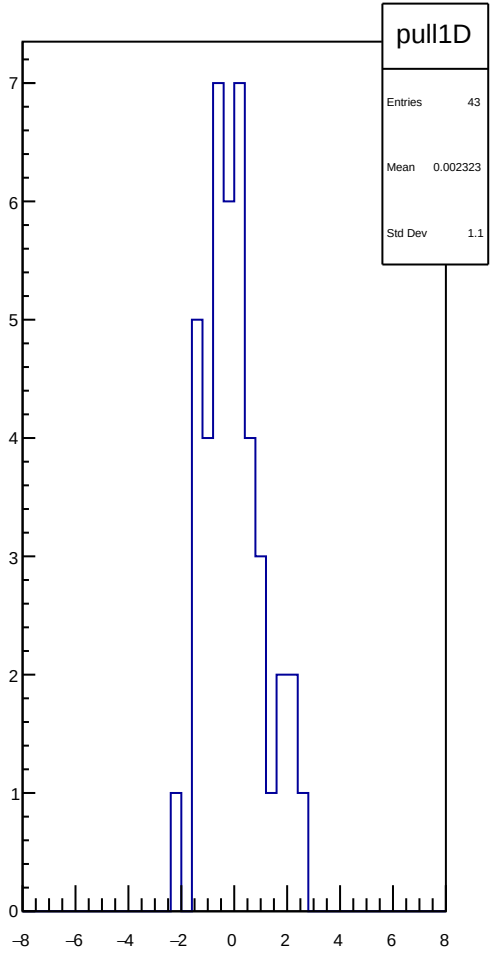

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.177e+04 / 42
p0 52.74 ± 0.05959
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

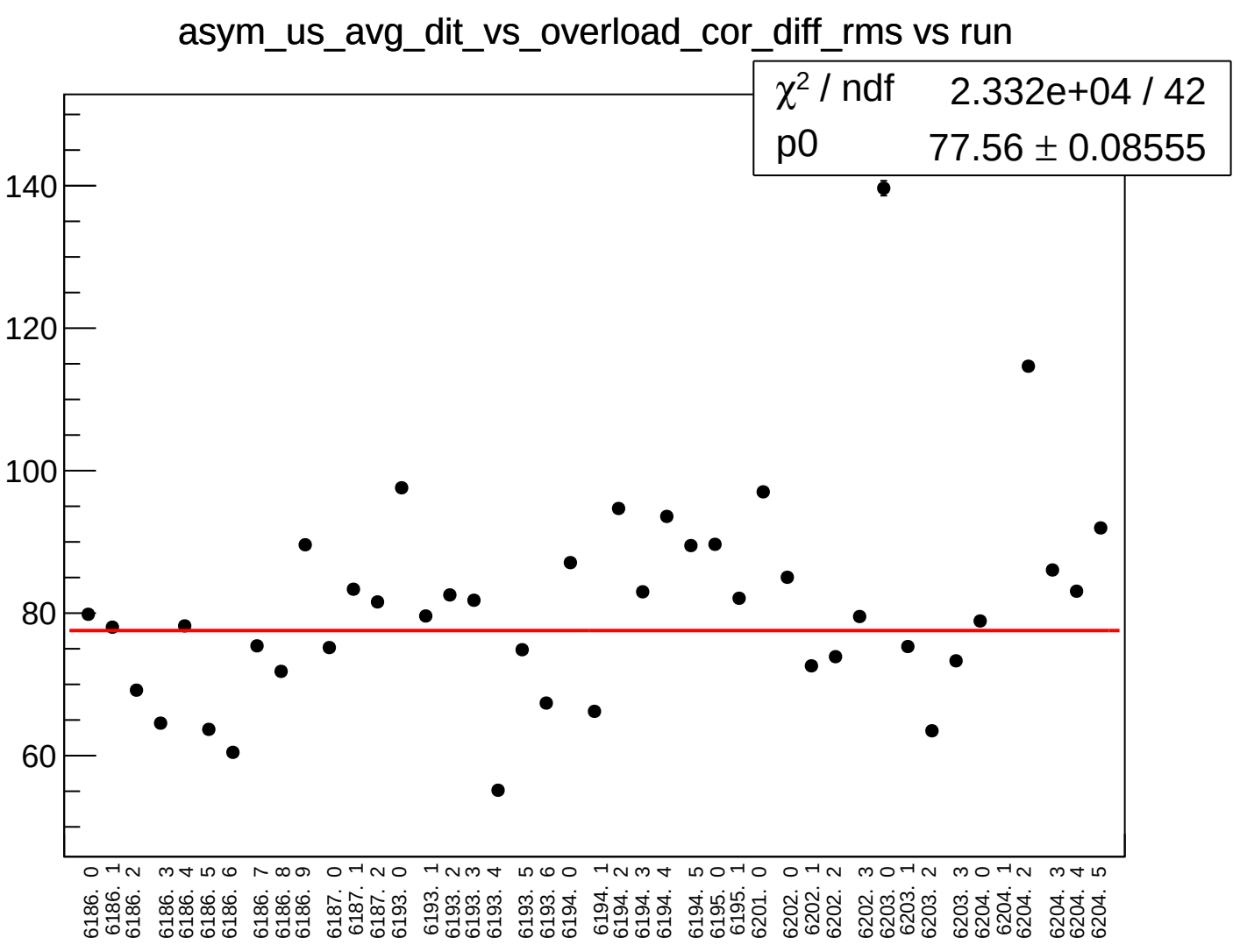

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.16 / 42
p0 0.0629 ± 0.08427
pull
Entries 43
Mean 69.06
Std Dev 0

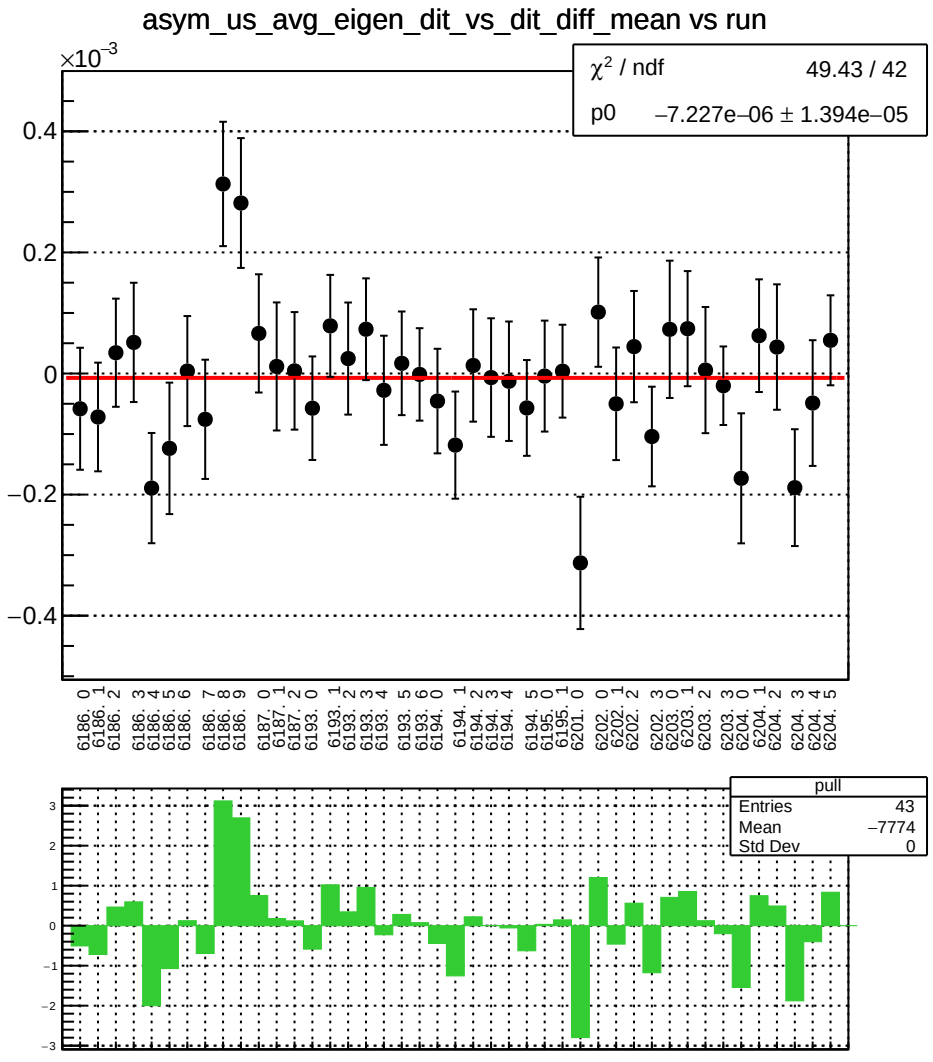

pull1D
Entries 43
Mean 0.01966
Std Dev 1.069

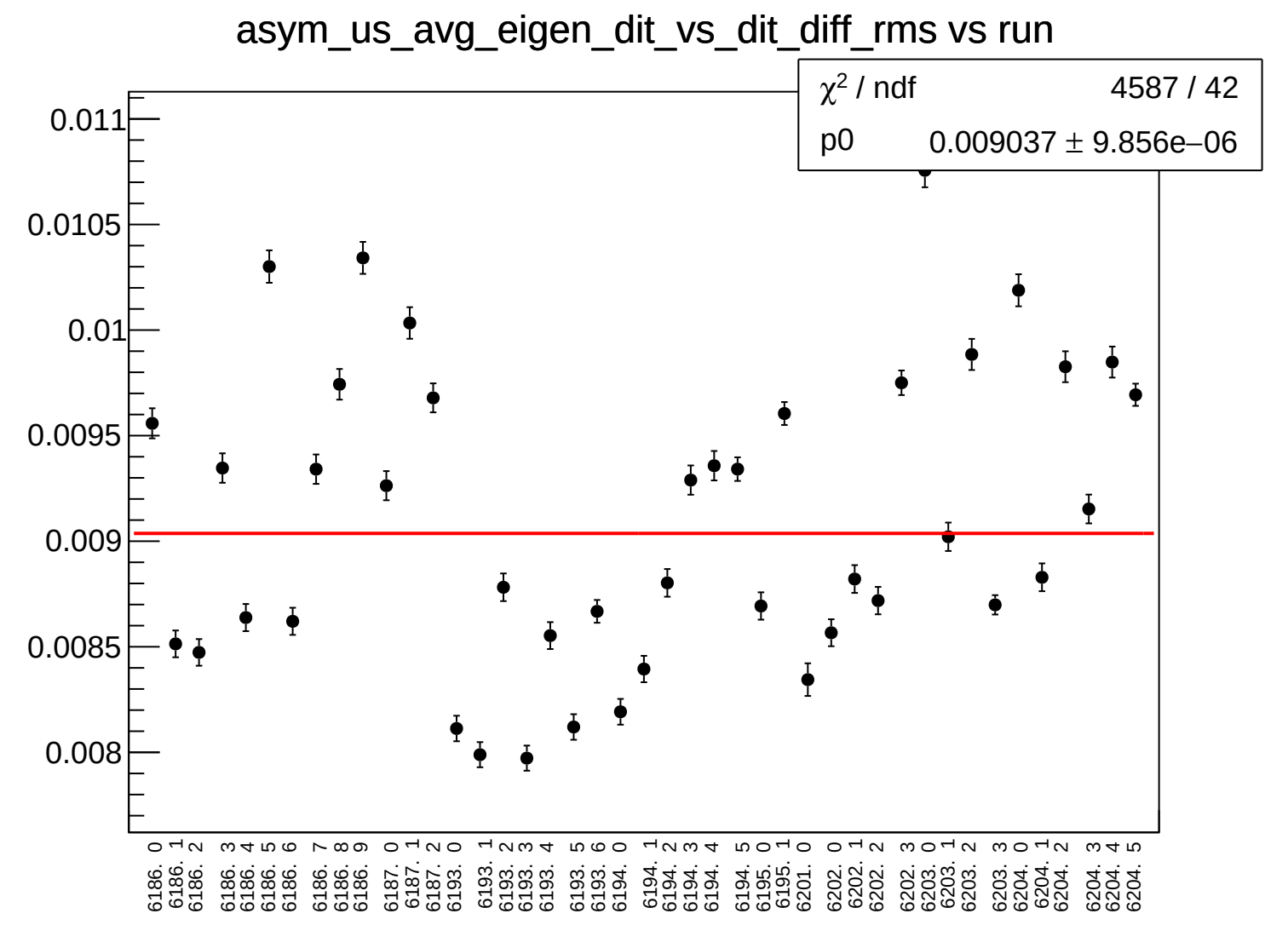

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.177e+04 / 42
p0 52.74 ± 0.05959
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

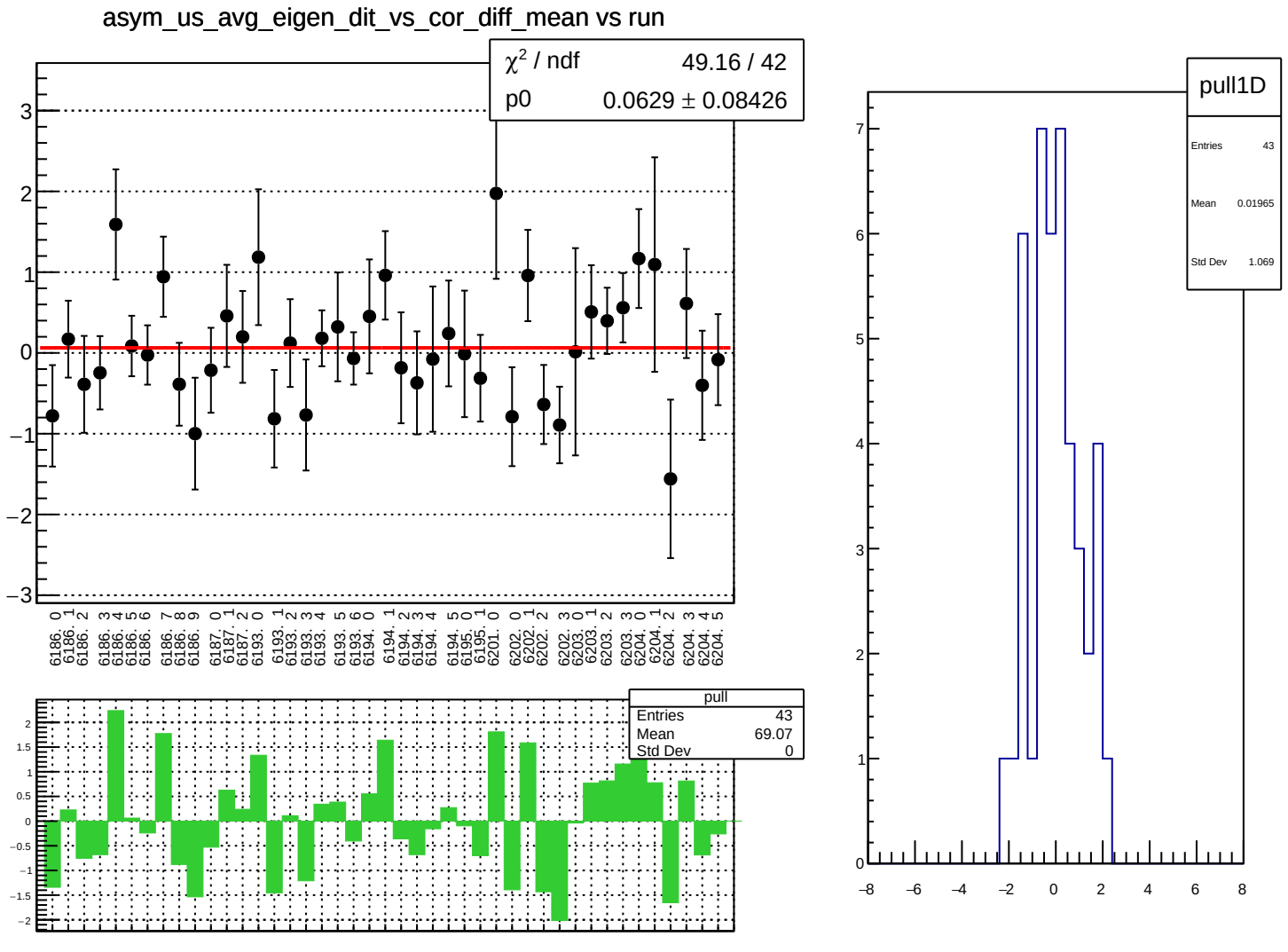

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 52.05 / 42
p0 0.1046 ± 0.121
pull
Entries 43
Mean 97.02
Std Dev 37

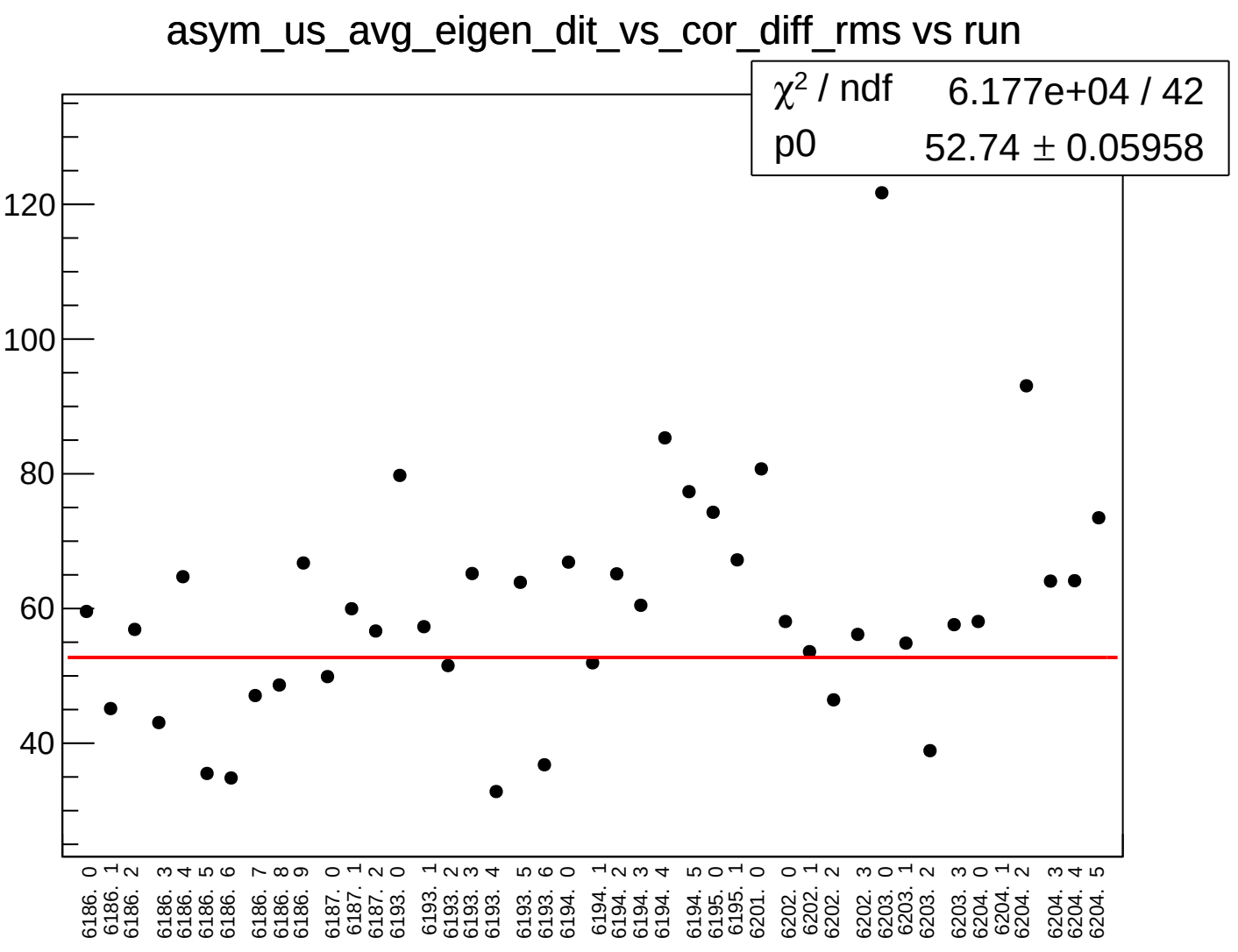

pull1D
Entries 43
Mean 0.002323
Std Dev 1.1

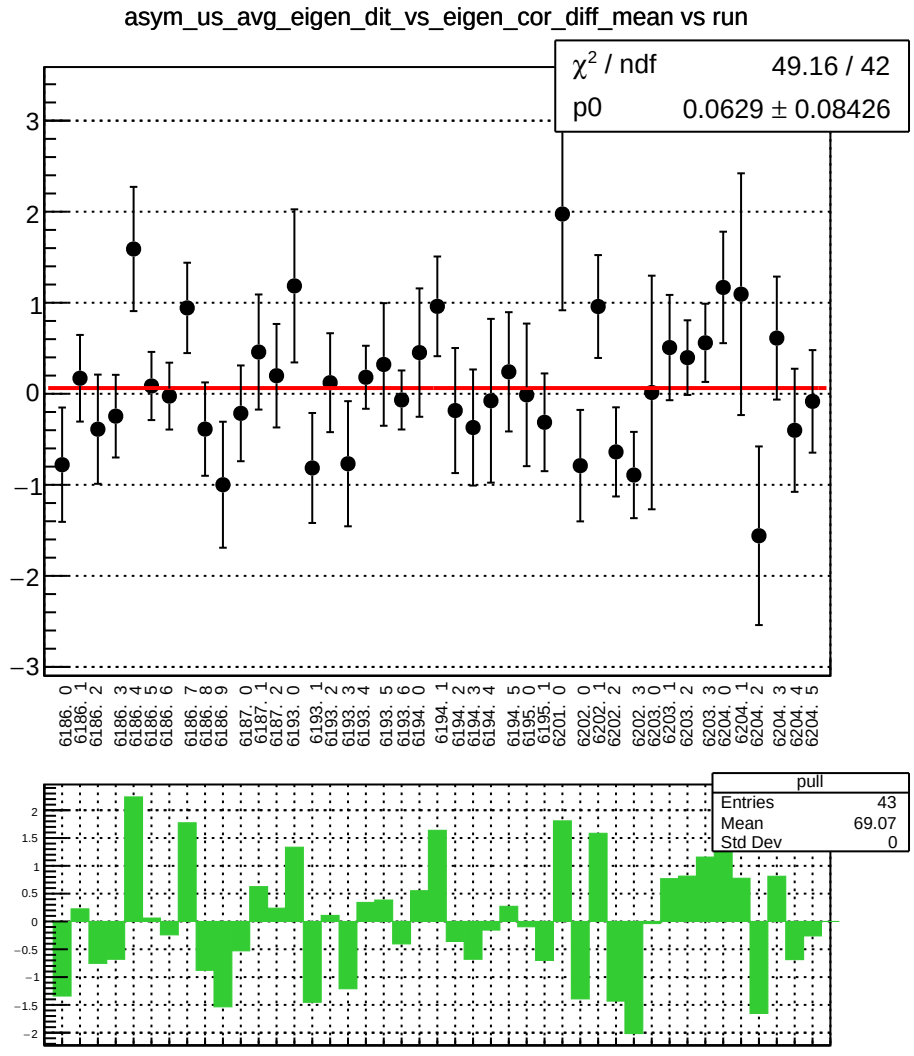

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.332e+04 / 42
p0 77.56 ± 0.08555
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

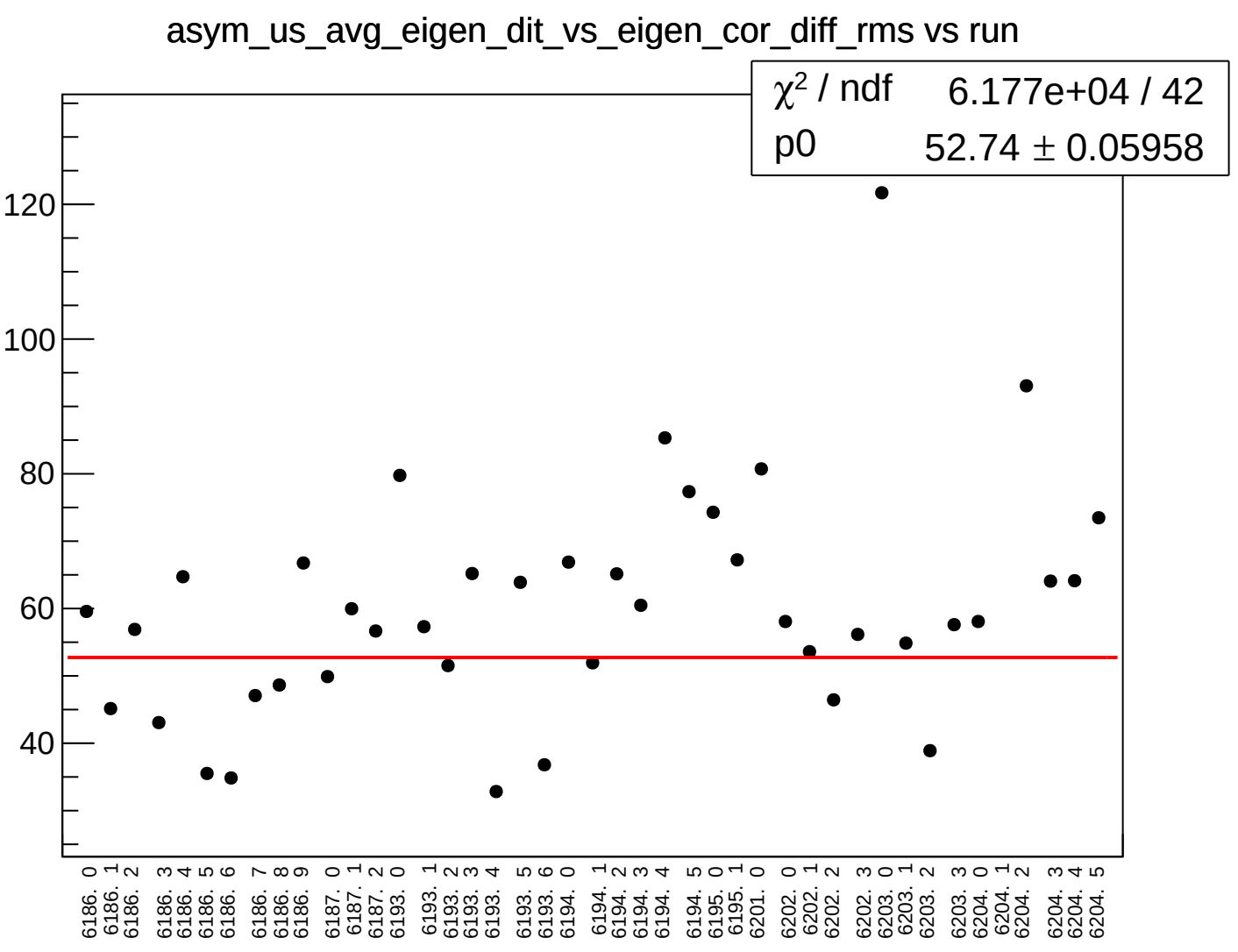

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 49.43 / 42
p0 −7.227e−06 ± 1.394e−05
0.4
0.2
0
−0.2
−0.4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −7774
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.0001858
Std Dev 1.072
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

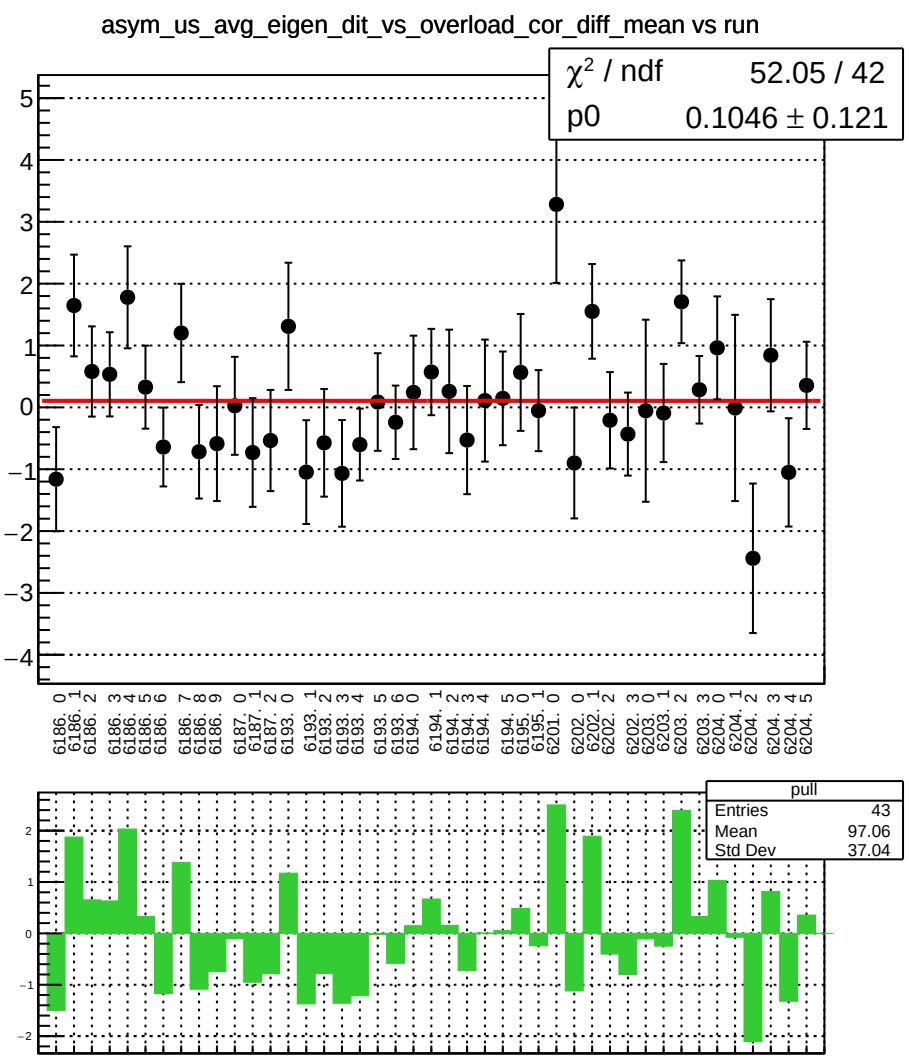

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4587 / 42
p0 0.009037 ± 9.856e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

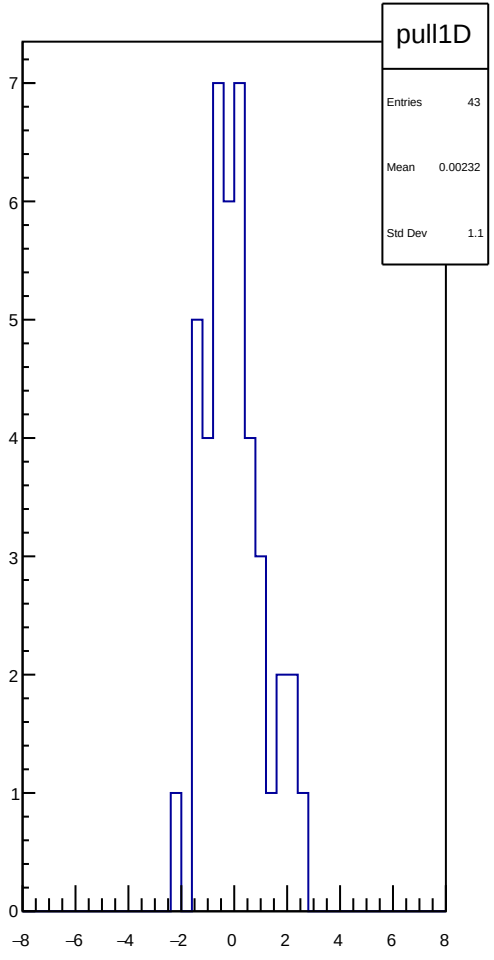

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.16 / 42
p0 0.0629 ± 0.08426
pull
Entries 43
Mean 69.07
Std Dev 0
pull1D
Entries 43
Mean 0.01965
Std Dev 1.069

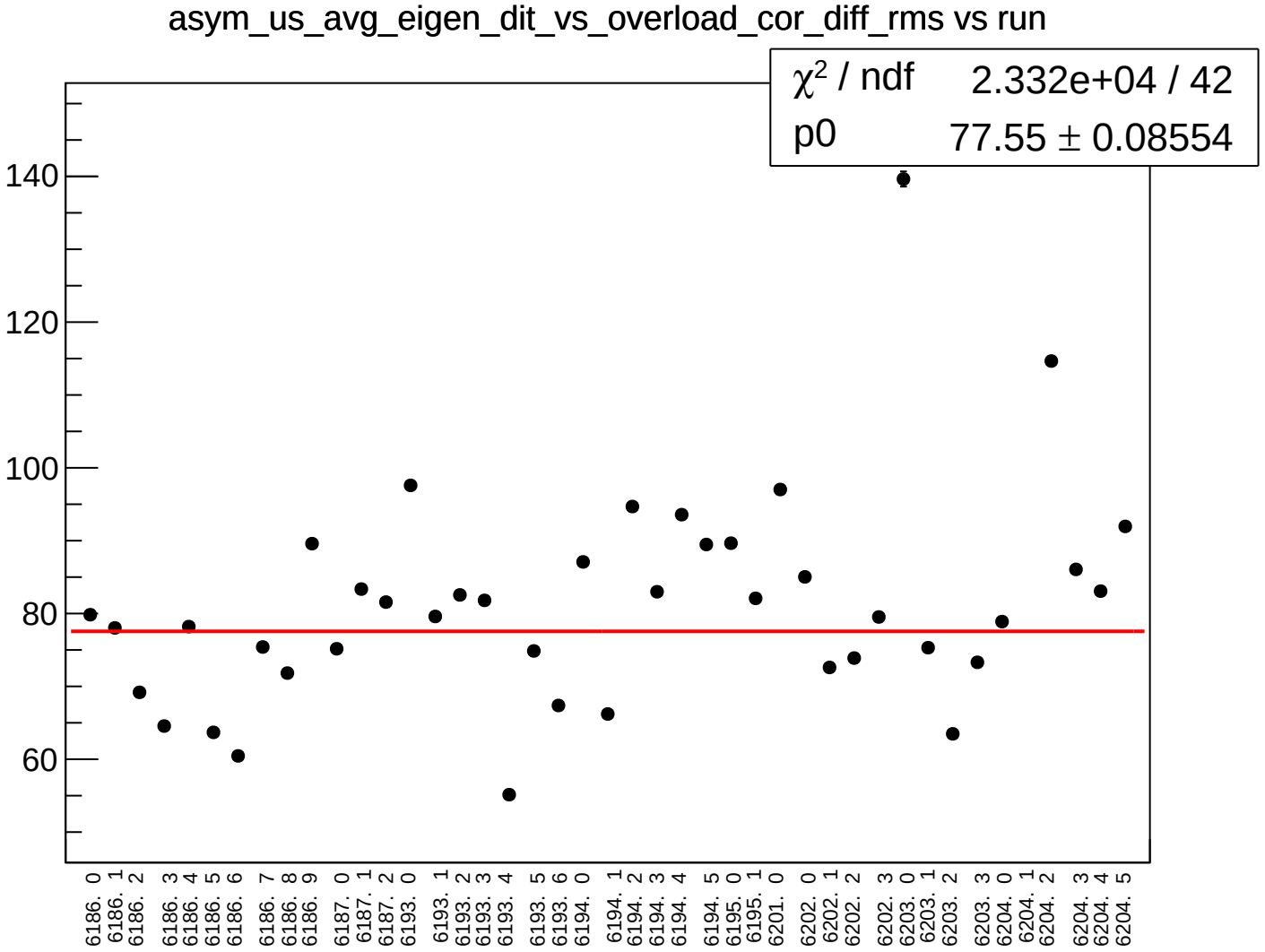

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.177e+04 / 42
p0 52.74 ± 0.05958
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

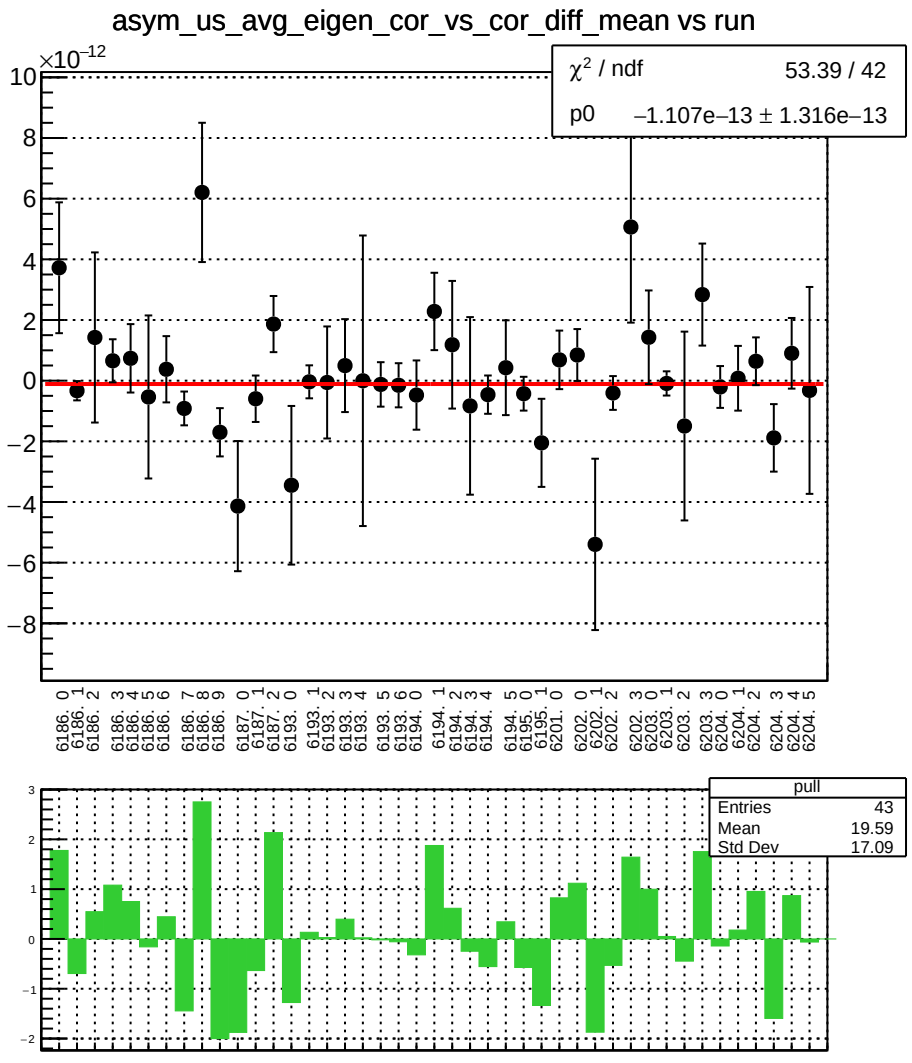

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.16 / 42
p0 0.0629 ± 0.08426
pull
Entries 43
Mean 69.07
Std Dev 0
pull1D
Entries 43
Mean 0.01965
Std Dev 1.069

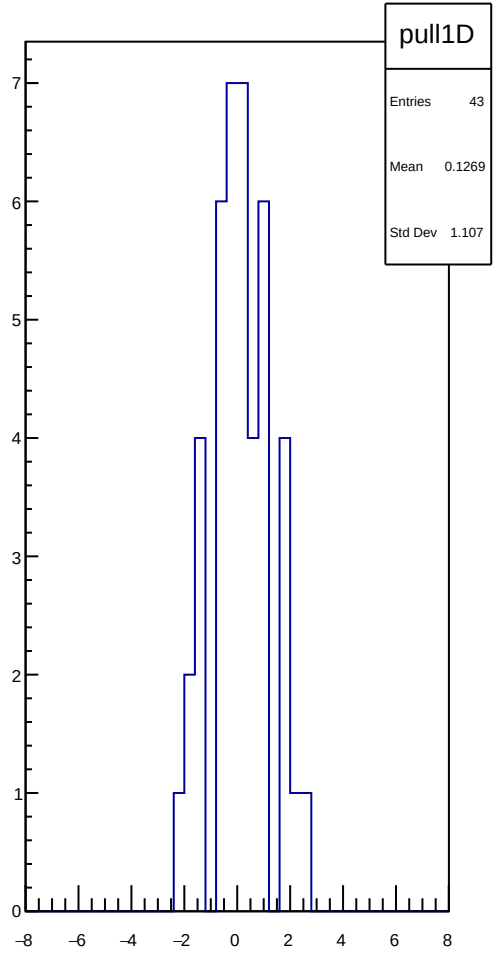

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.177e+04 / 42
p0 52.74 ± 0.05958
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

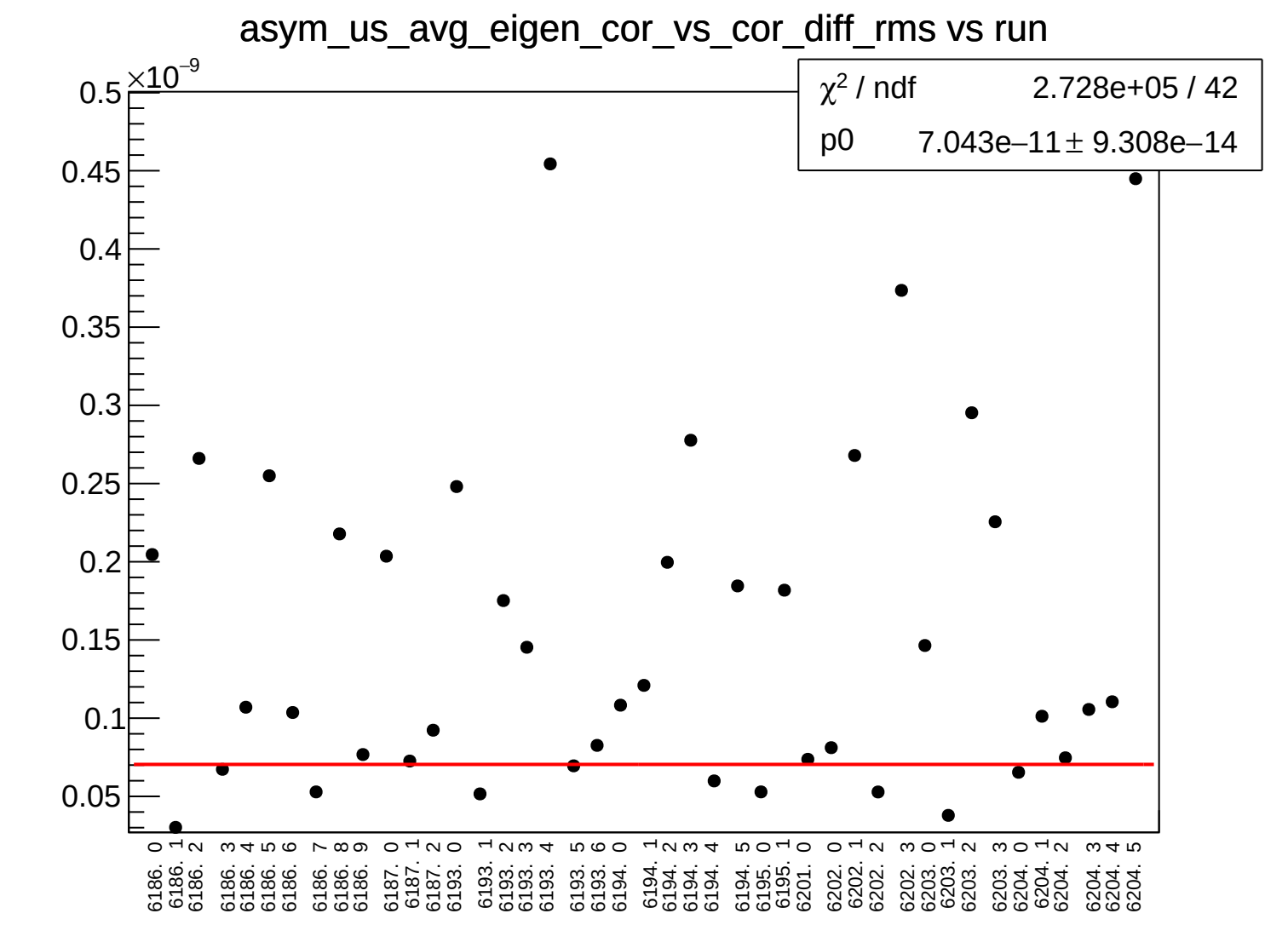

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 52.05 / 42
p0 0.1046 ± 0.121
pull
Entries 43
Mean 97.06
Std Dev 37.04

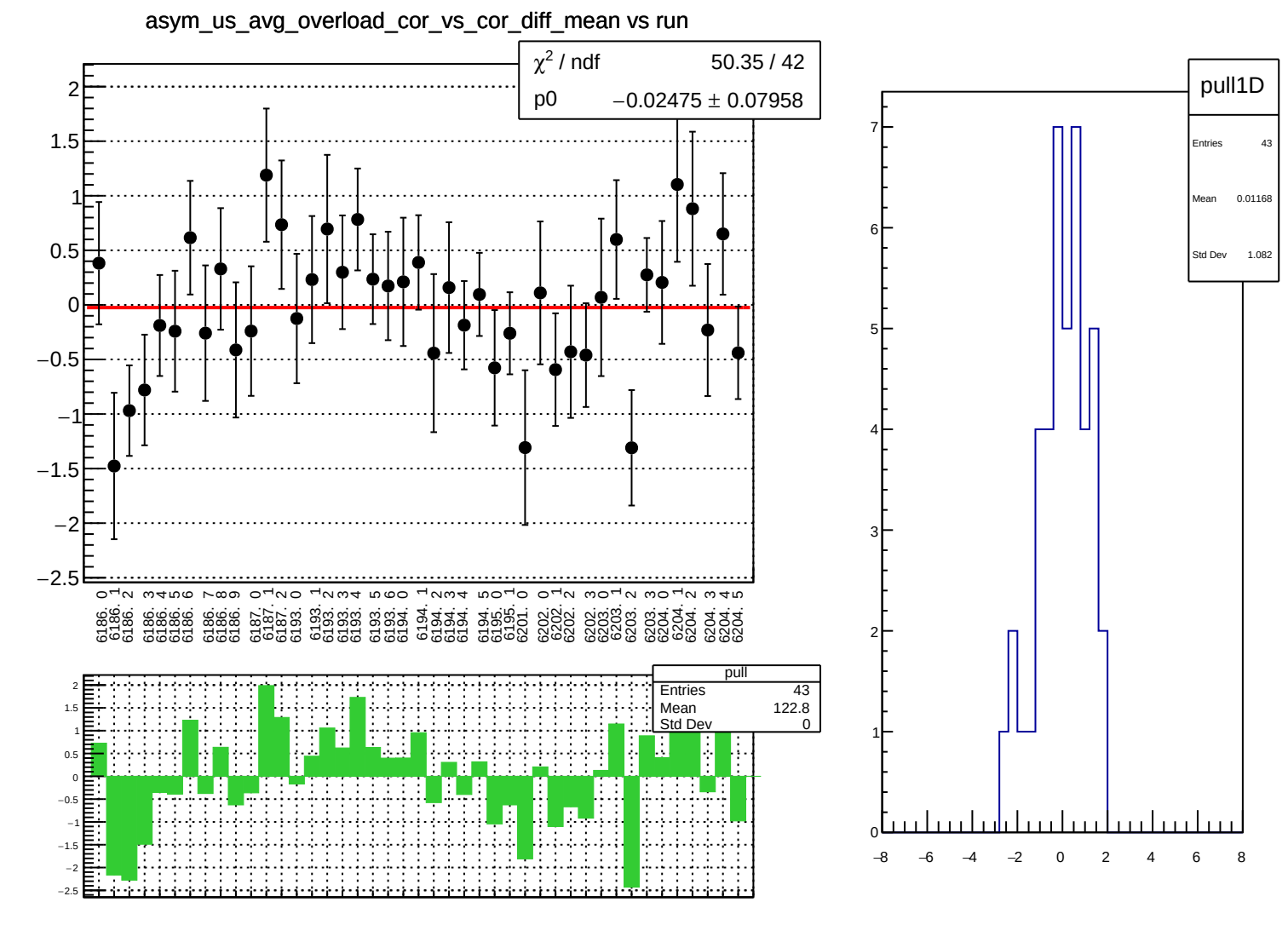

pull1D
Entries 43
Mean 0.00232
Std Dev 1.1

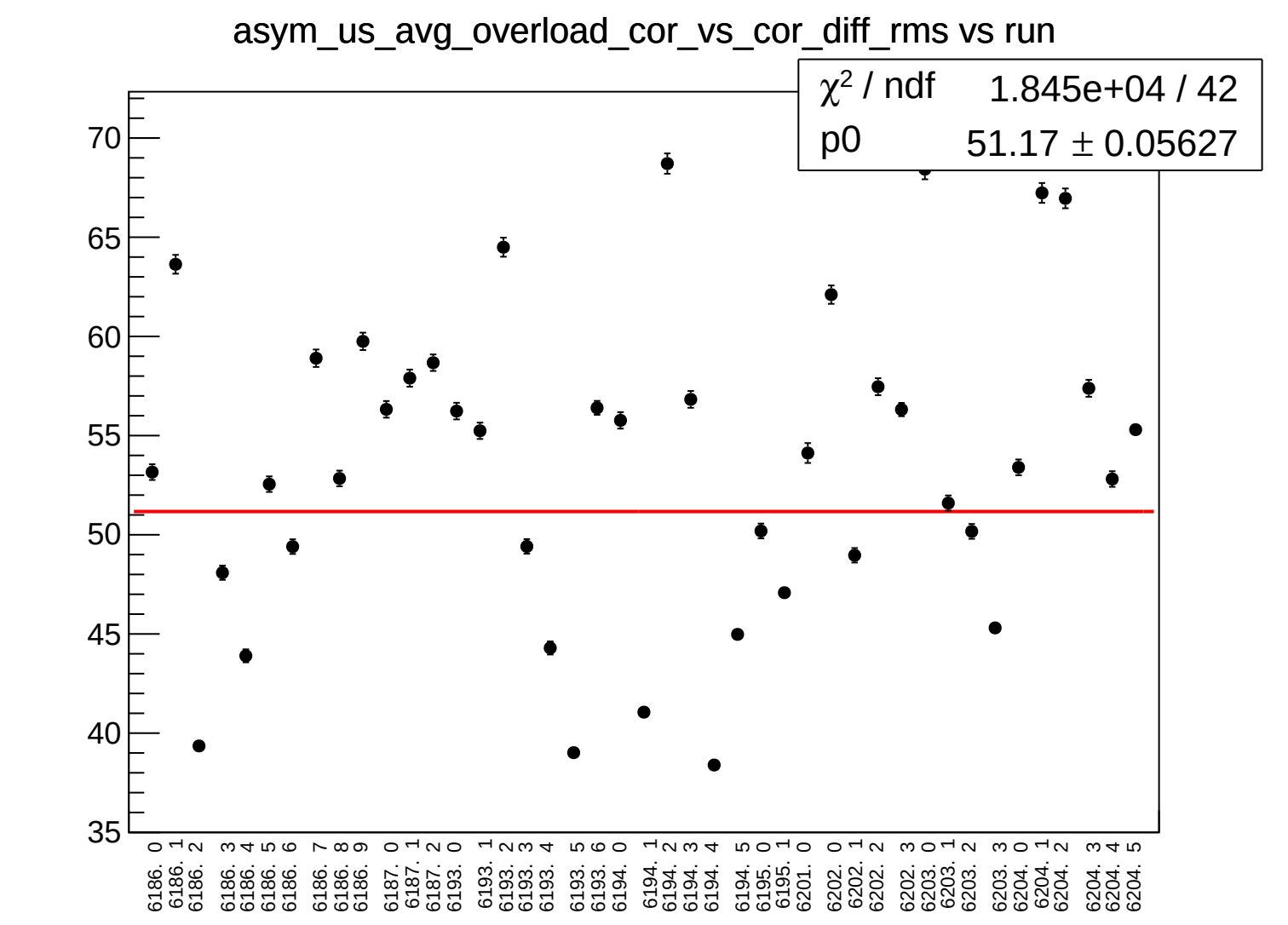

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.332e+04 / 42
p0 77.55 ± 0.08554
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 53.39 / 42
p0 −1.107e−13 ± 1.316e−13
pull
Entries 43
Mean 19.59
Std Dev 17.09

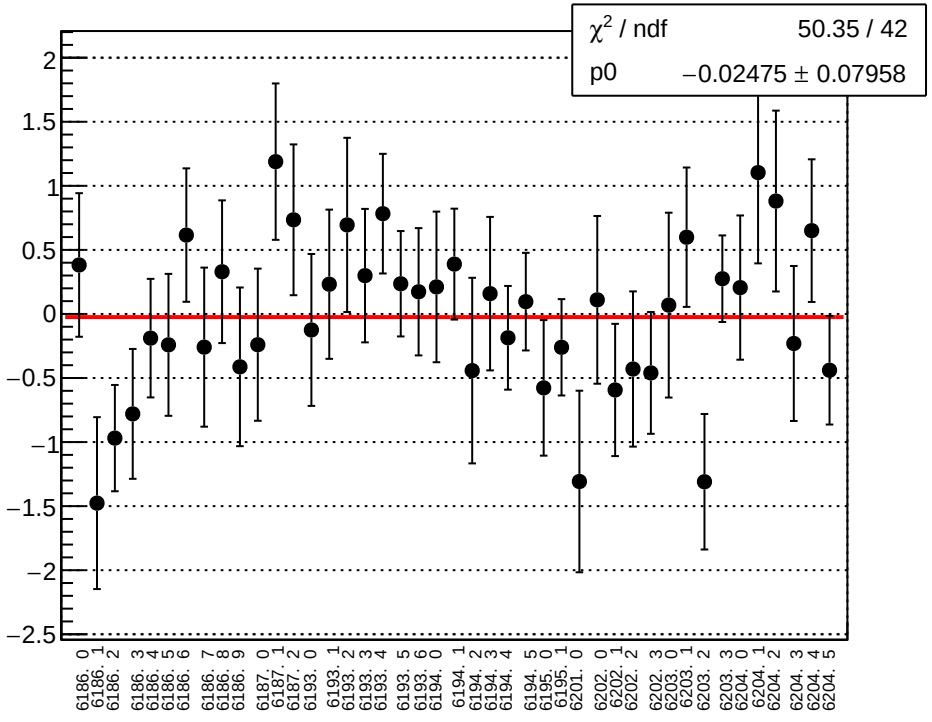

pull1D
Entries 43
Mean 0.1269
Std Dev 1.107

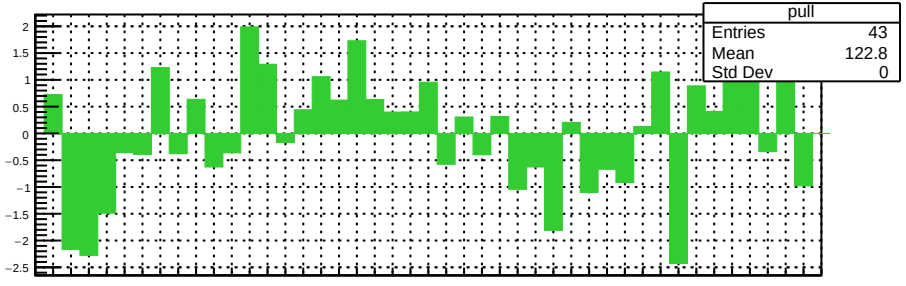

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.728e+05 / 42
p0 7.043e−11 ± 9.308e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

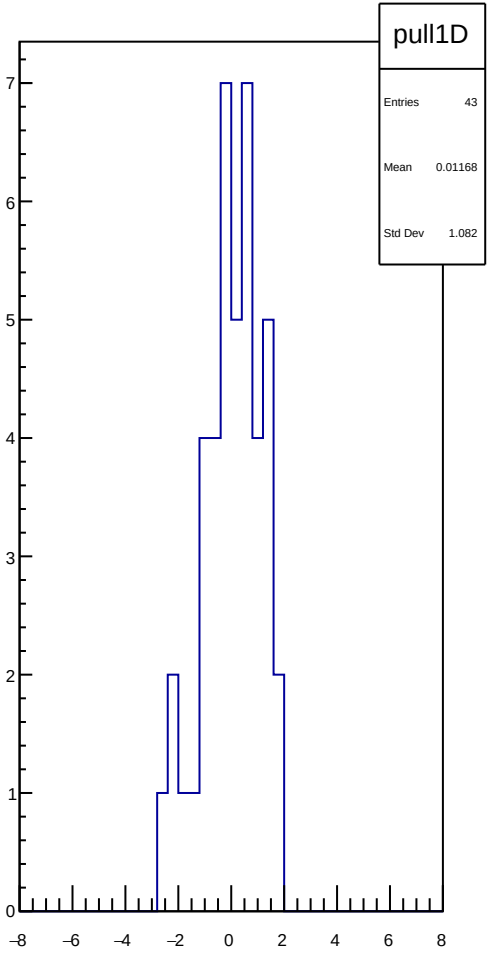

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 50.35 / 42
p0 −0.02475 ± 0.07958
pull
Entries 43
Mean 122.8
Std Dev 0
pull1D
Entries 43
Mean 0.01168
Std Dev 1.082

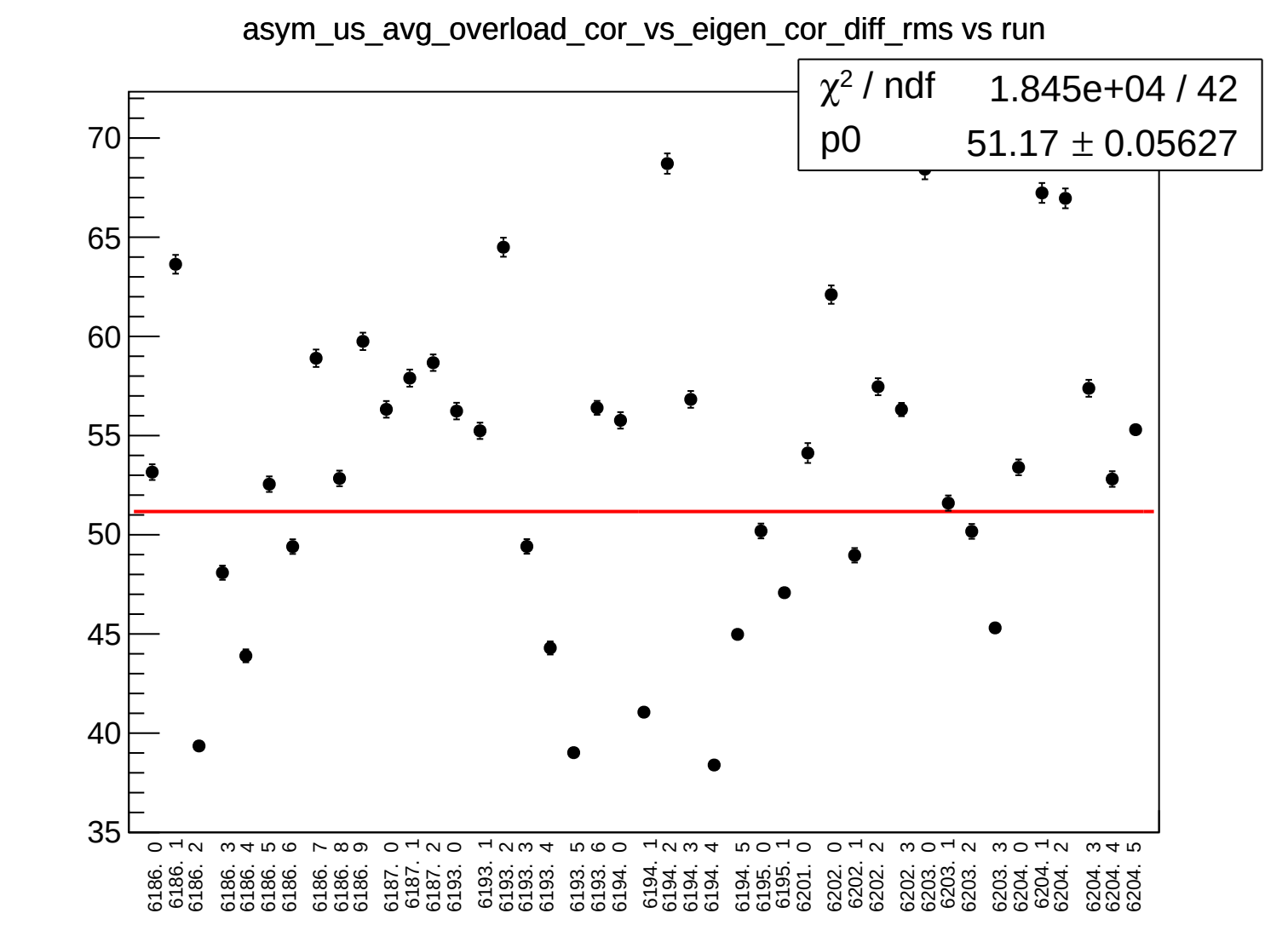

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.845e+04 / 42
p0 51.17 ± 0.05627
70
65
60
55
50
45
40
35
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

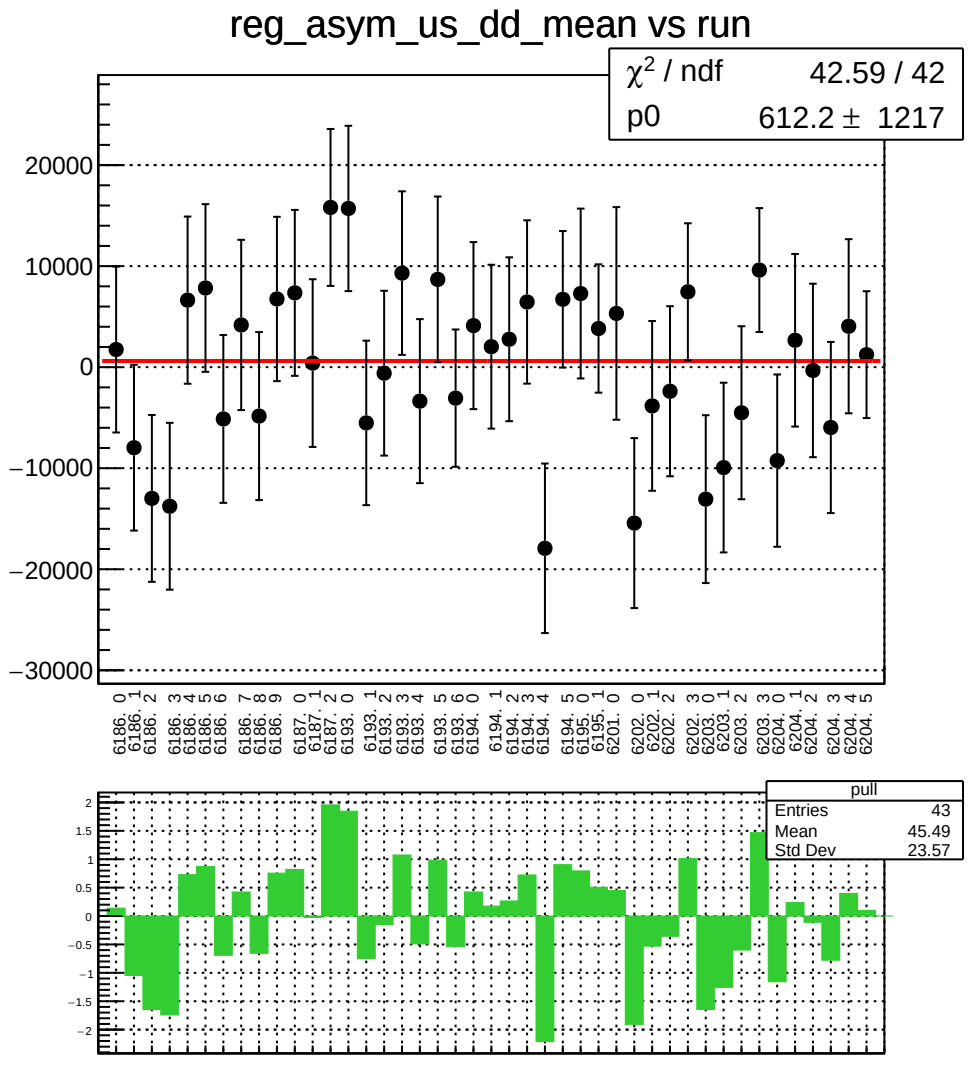
asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run

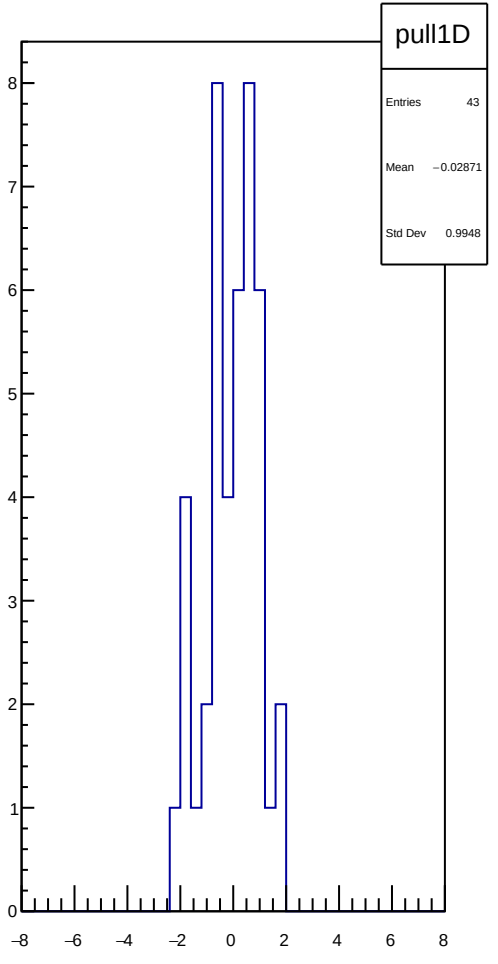


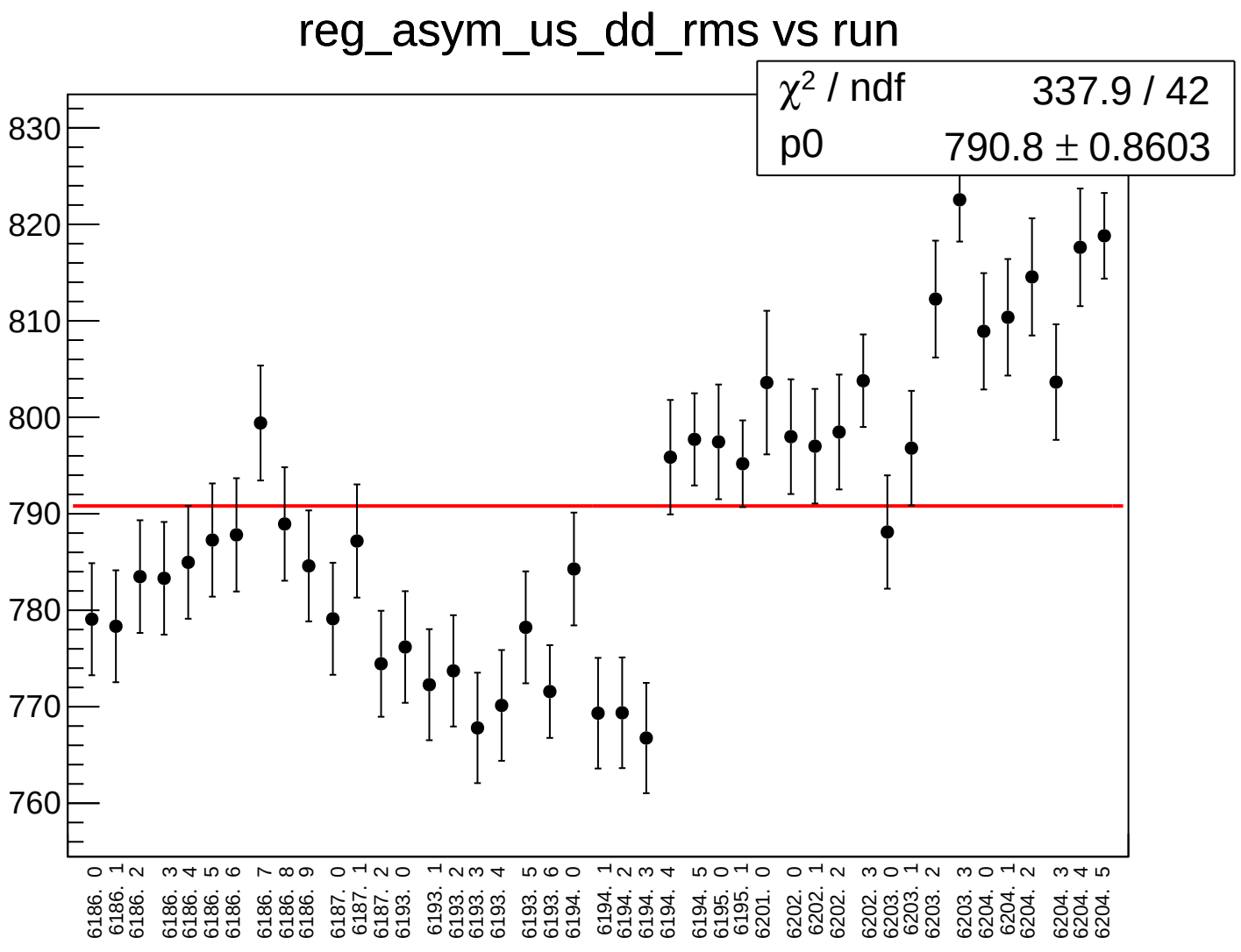


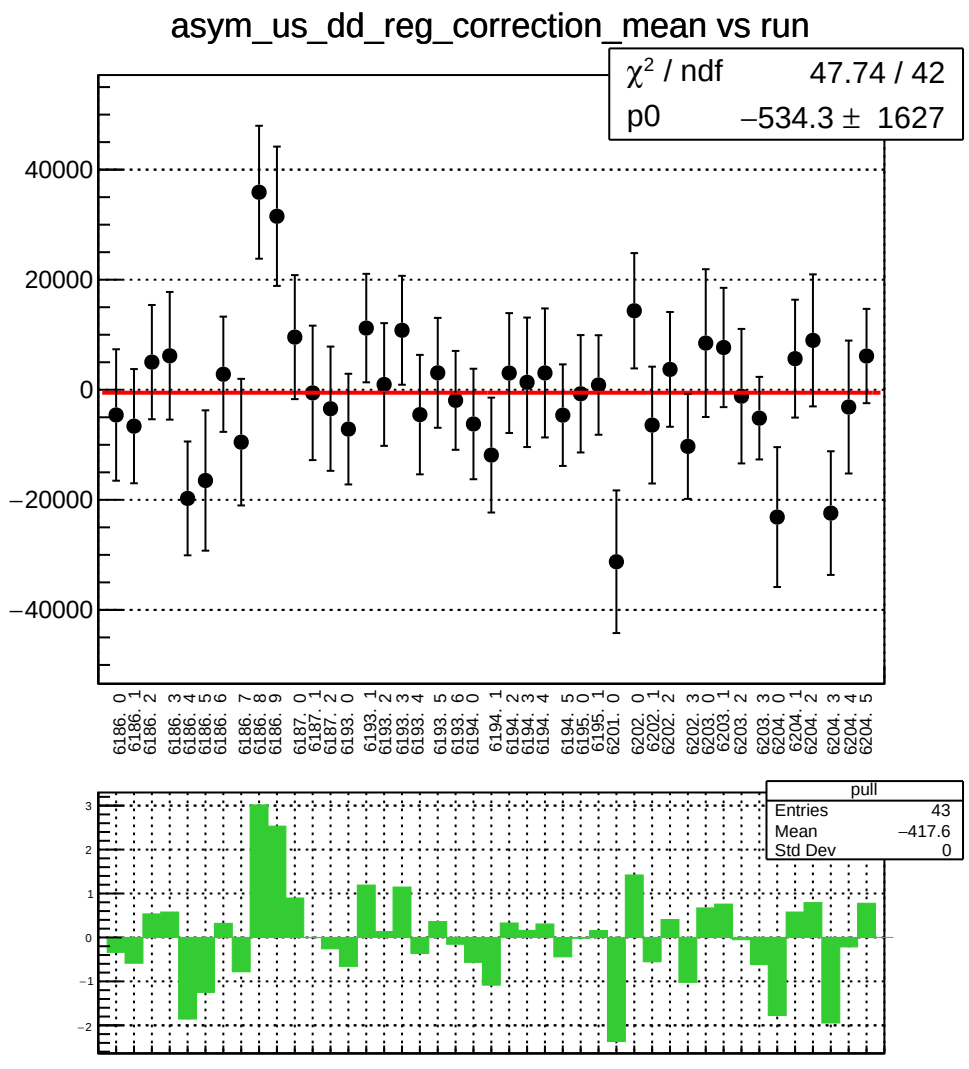


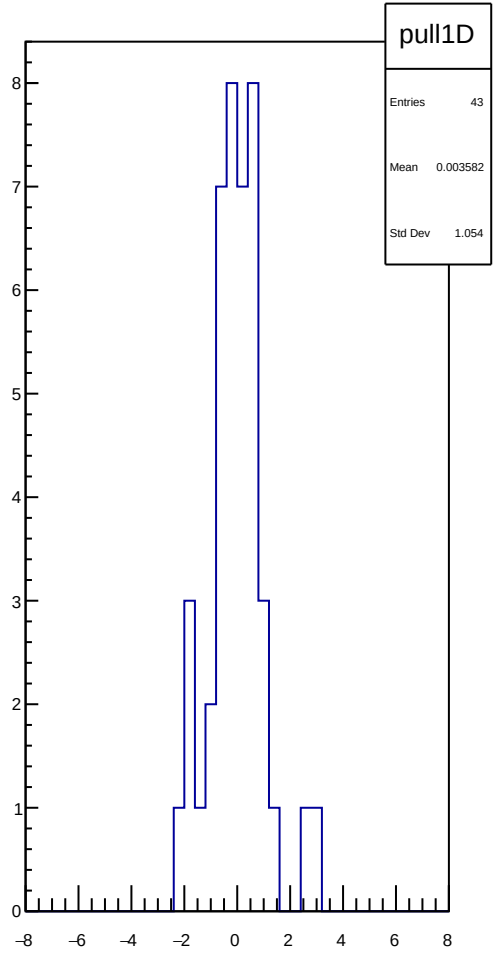

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.845e+04 / 42
p0 51.17 ± 0.05627
70
65
60
55
50
45
40
35
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_us_dd_mean vs run
χ² / ndf 42.59 / 42
p0 612.2 ± 1217
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 45.49
Std Dev 23.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.02871
Std Dev 0.9948
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_rms vs run
χ² / ndf 337.9 / 42
p0 790.8 ± 0.8603
830
820
810
800
790
780
770
760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_reg_correction_mean vs run
χ² / ndf 47.74 / 42
p0 −534.3 ± 1627
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −417.6
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.003582
Std Dev 1.054
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4
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1
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−6
−4
−2
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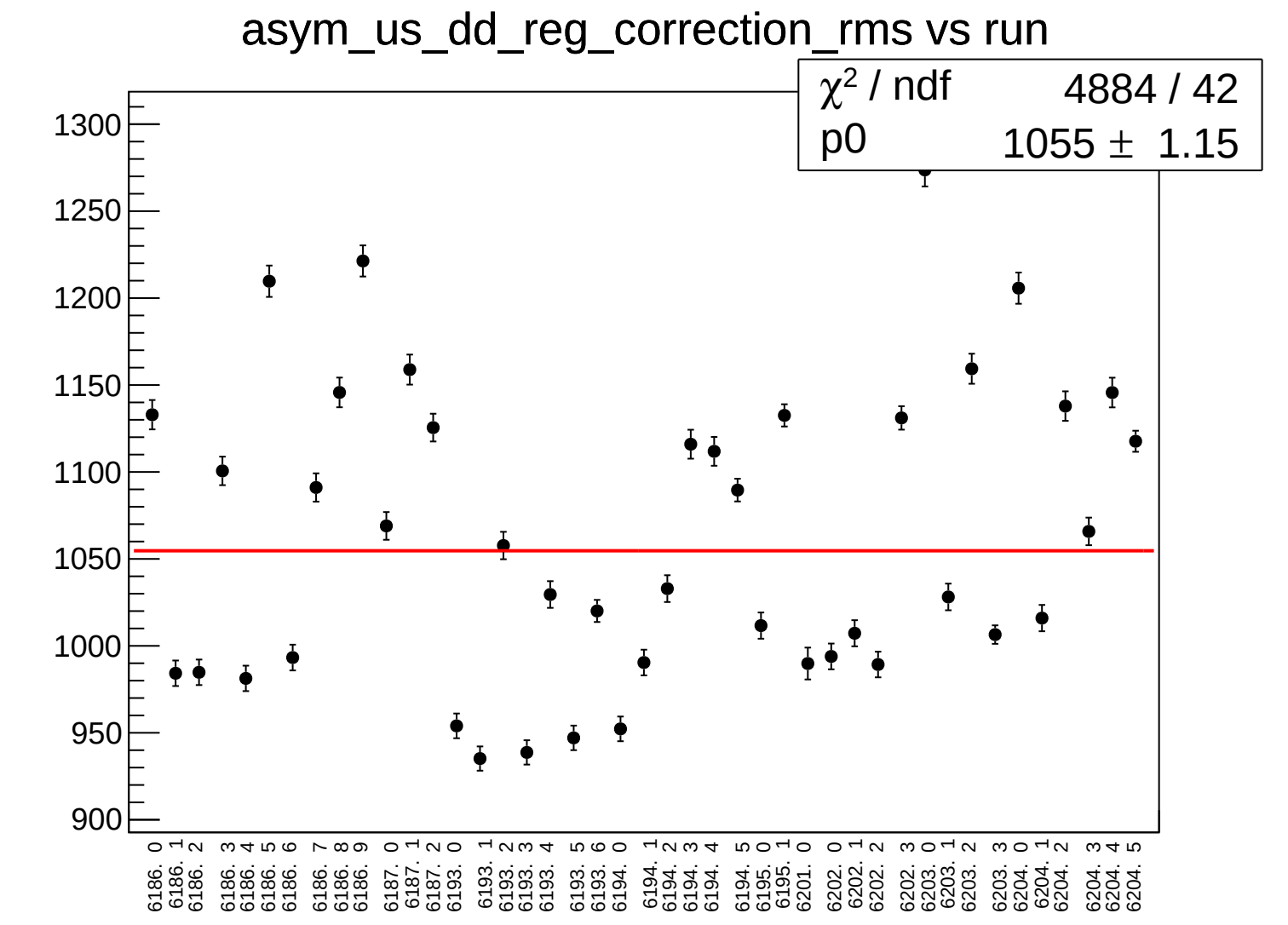
2
4
6
8


asym_us_dd_reg_correction_rms vs run
χ² / ndf 4884 / 42
p0 1055 ± 1.15
1300
1250
1200
1150
1100
1050
1000
950
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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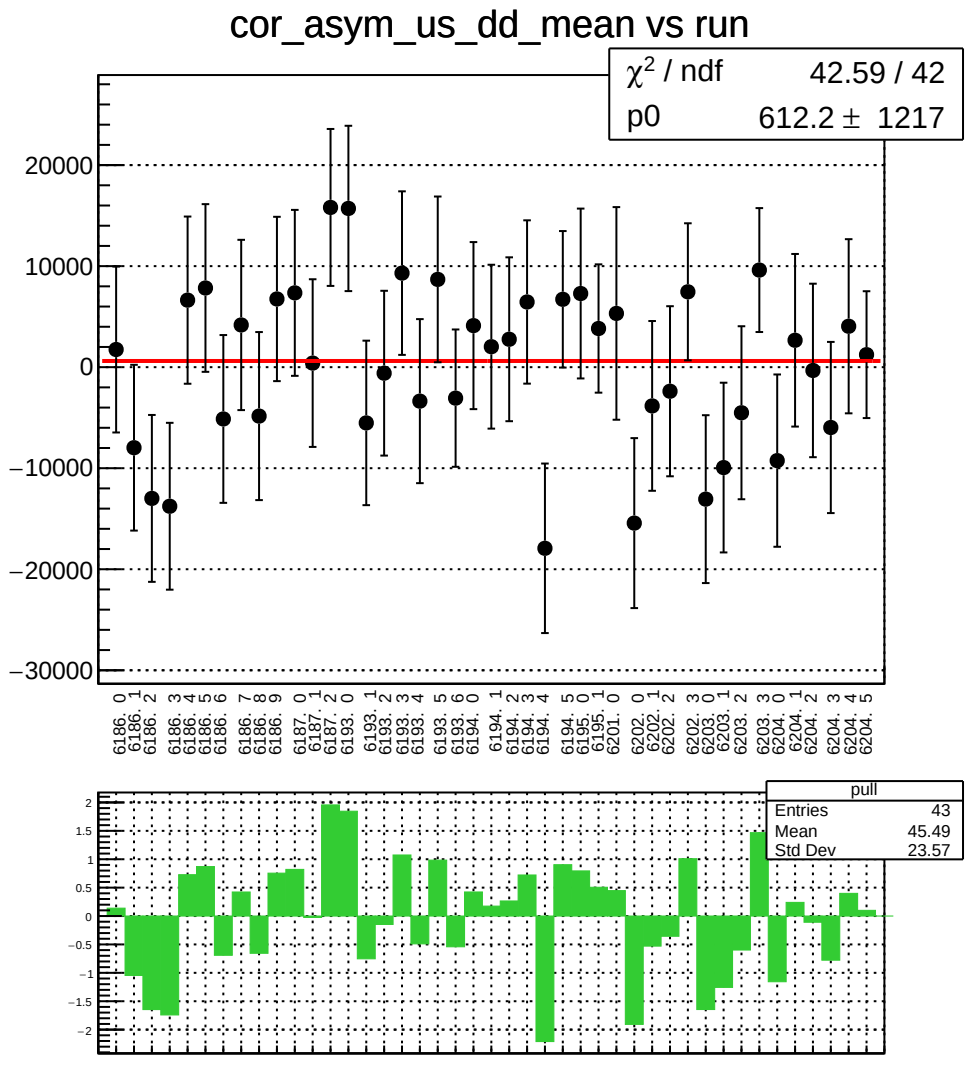
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_us_dd_mean vs run
χ² / ndf 42.59 / 42
p0 612.2 ± 1217
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 45.49
Std Dev 23.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02871
Std Dev 0.9948
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7
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5
4
3
2
1
0
−8
−6
−4
−2
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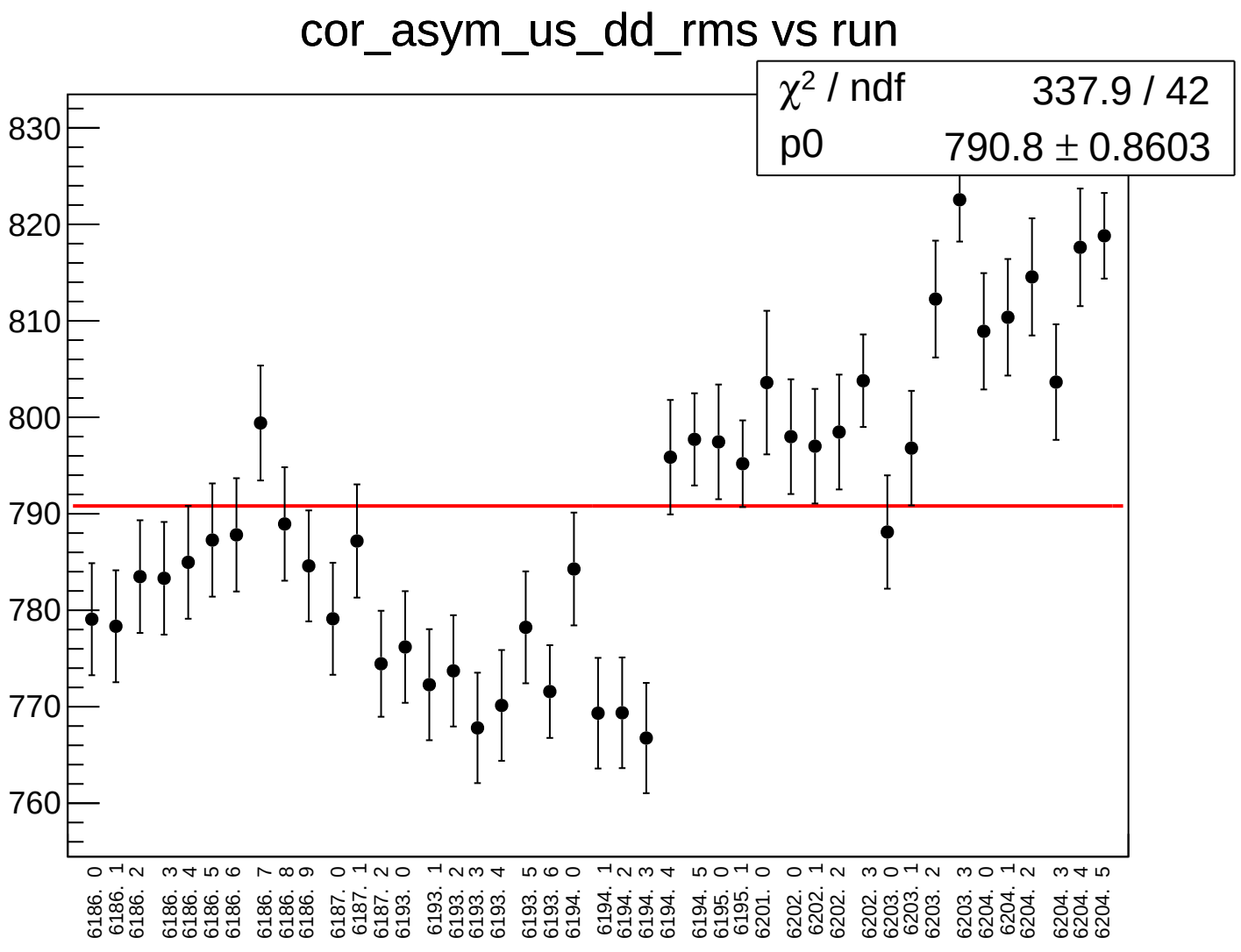
2
4
6
8


cor_asym_us_dd_rms vs run
χ² / ndf 337.9 / 42
p0 790.8 ± 0.8603
830
820
810
800
790
780
770
760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 3
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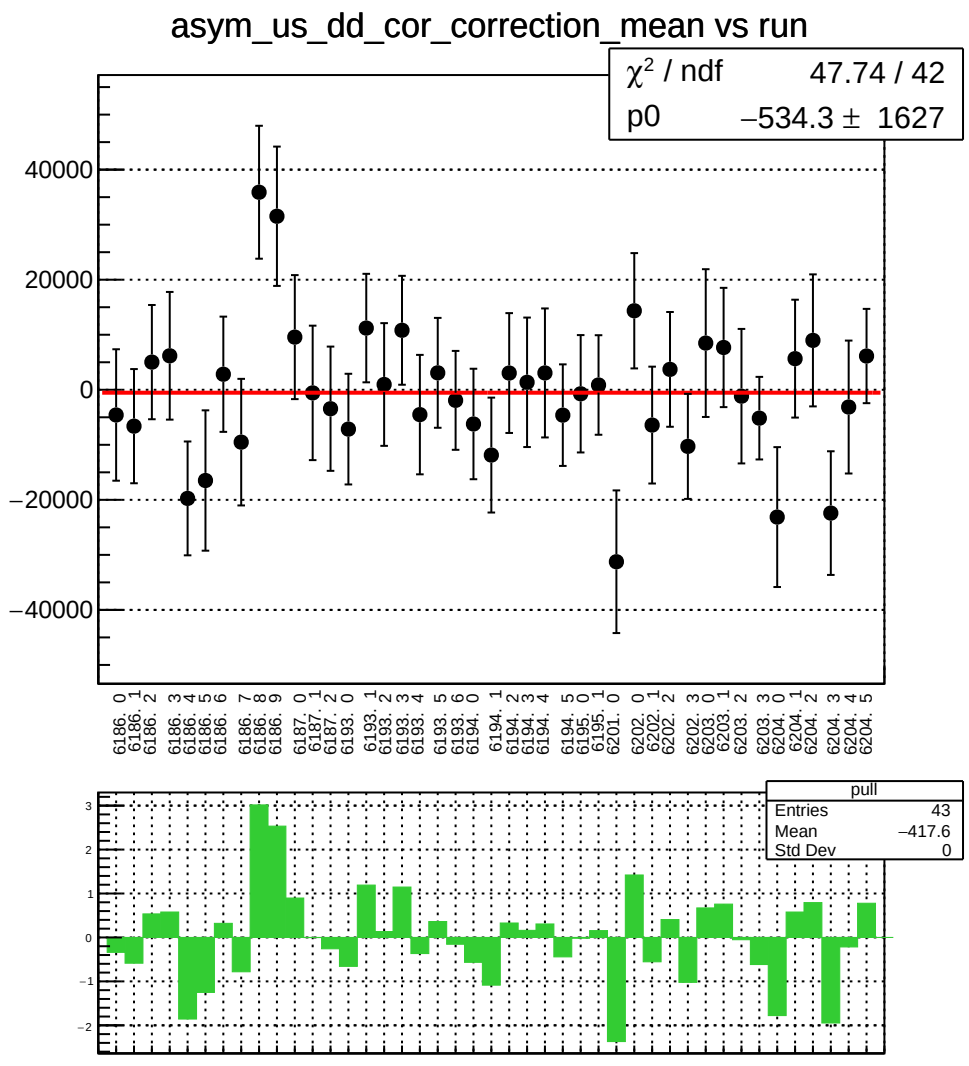
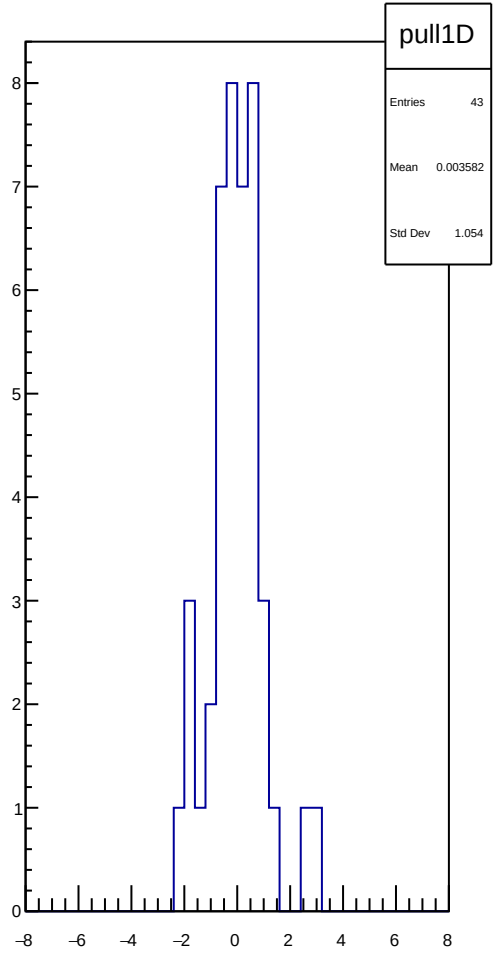
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_cor_correction_mean vs run
χ² / ndf 47.74 / 42
p0 −534.3 ± 1627
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −417.6
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.003582
Std Dev 1.054
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5
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2
1
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−8
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−4
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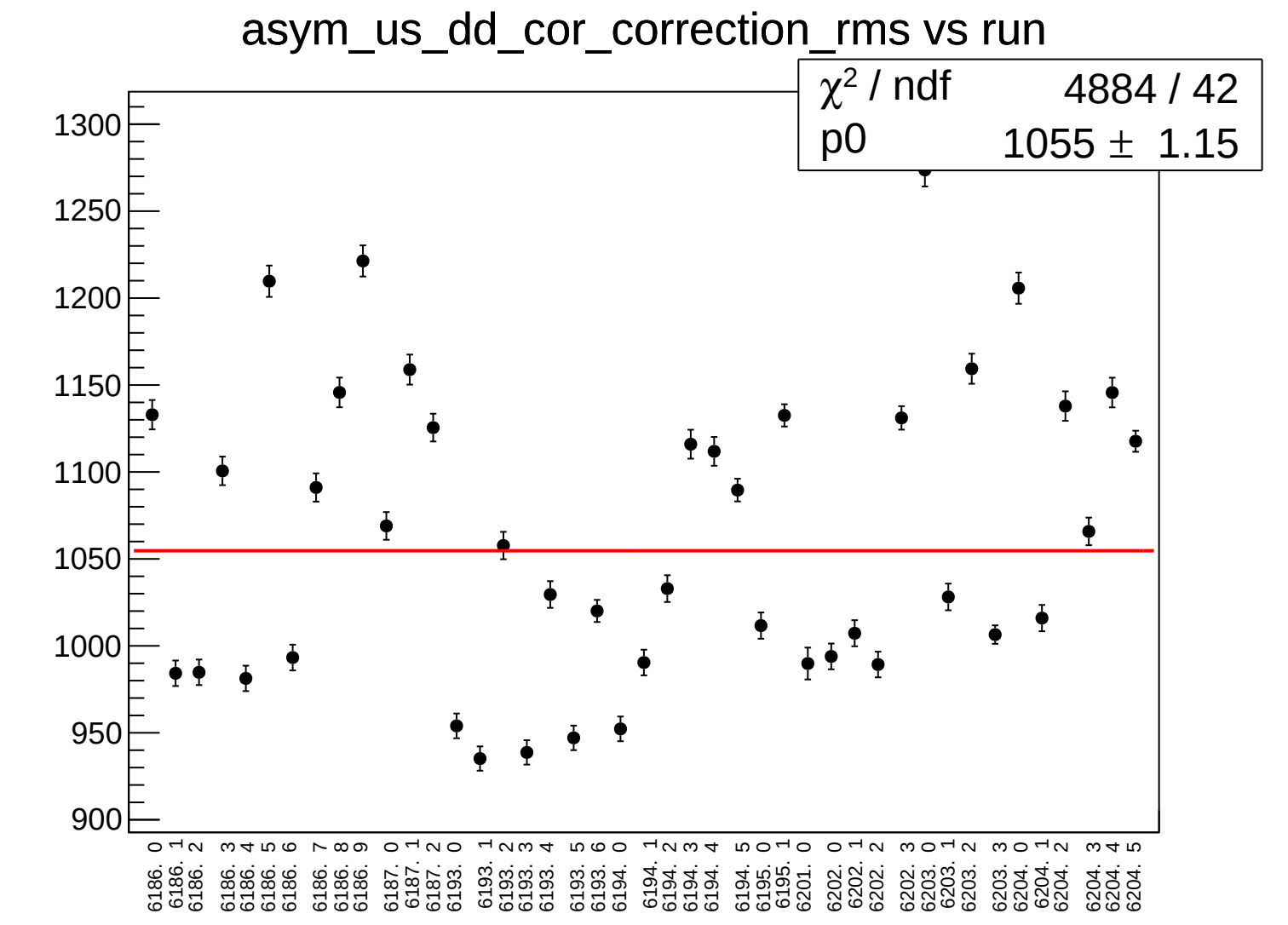
6
8


asym_us_dd_cor_correction_rms vs run
χ² / ndf 4884 / 42
p0 1055 ± 1.15
1300
1250
1200
1150
1100
1050
1000
950
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
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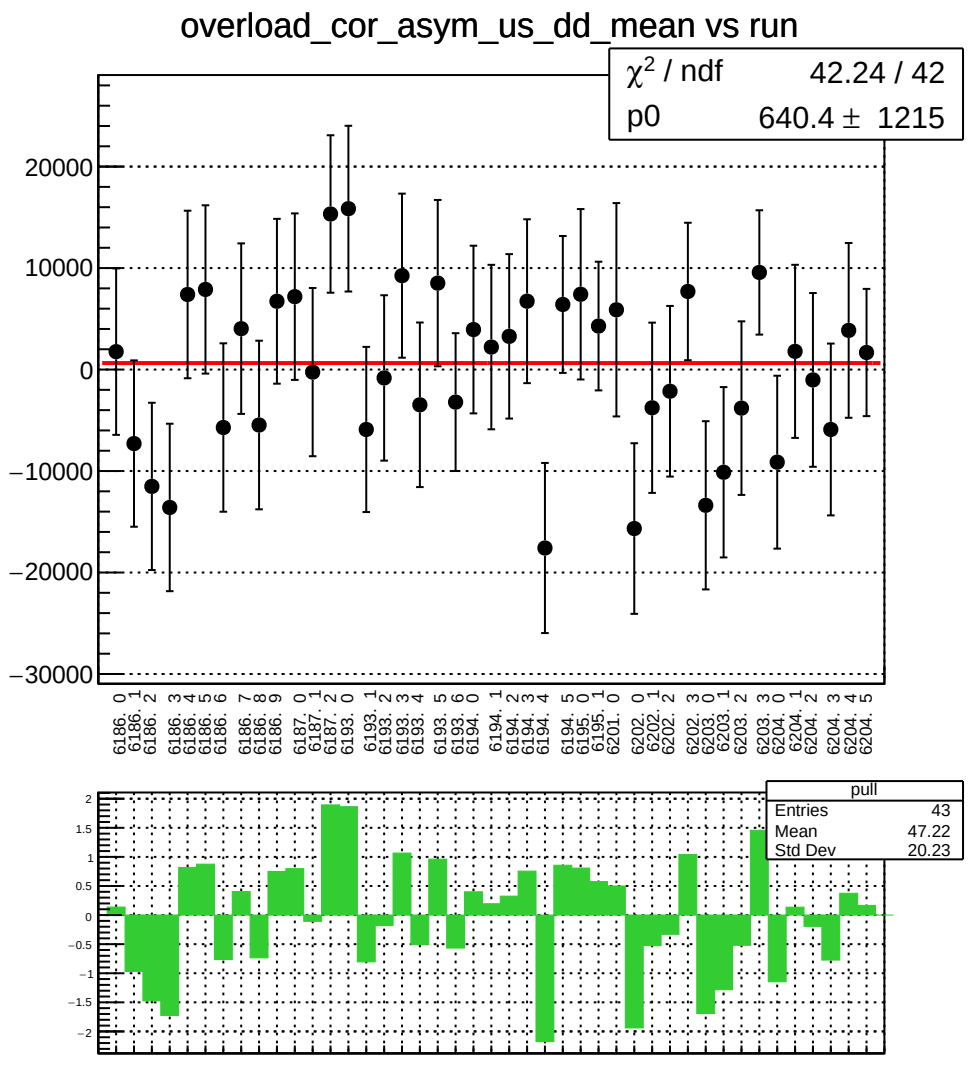
6204. 4
6204. 5


overload_cor_asym_us_dd_mean vs run
χ² / ndf 42.24 / 42
p0 640.4 ± 1215
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
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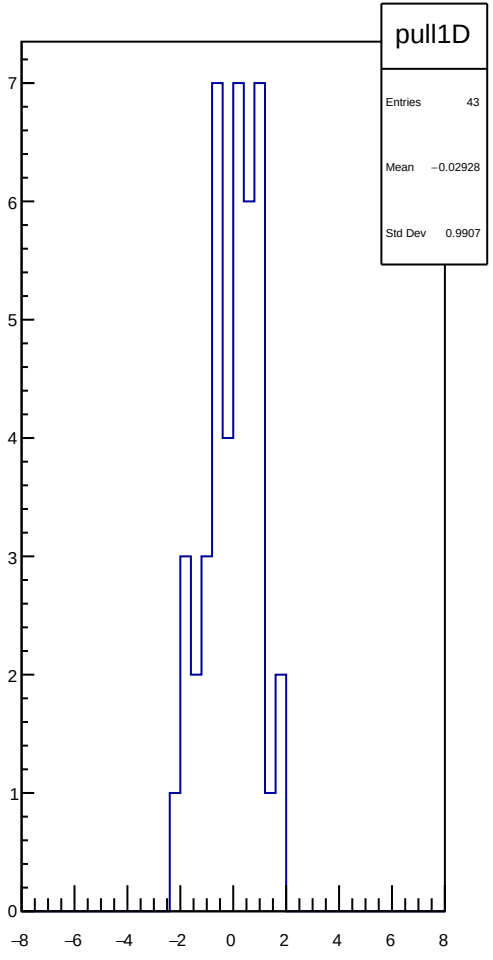
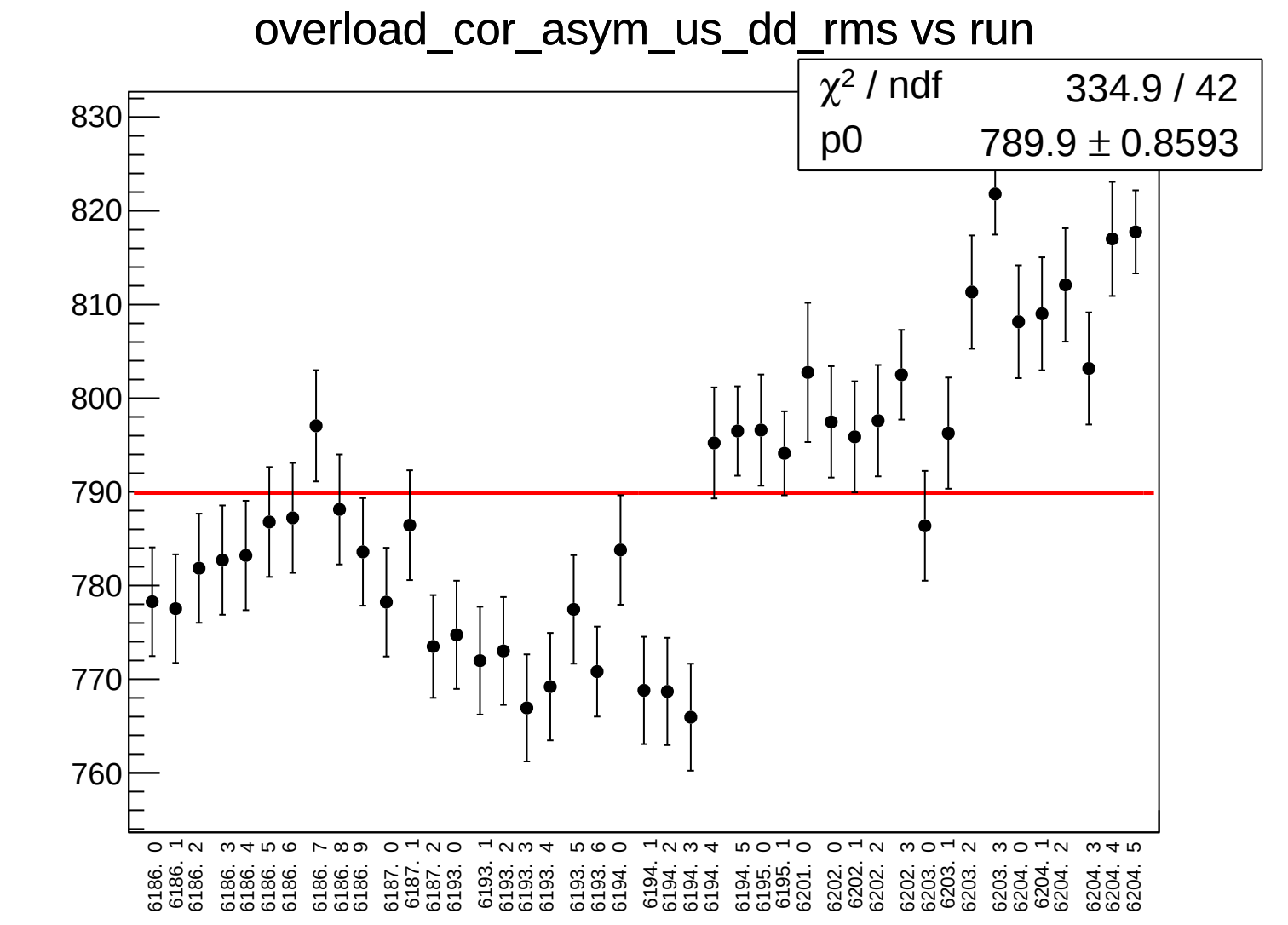
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 47.22
Std Dev 20.23
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.02928
Std Dev 0.9907
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_us_dd_rms vs run
χ² / ndf 334.9 / 42
p0 789.9 ± 0.8593
830
820
810
800
790
780
770
760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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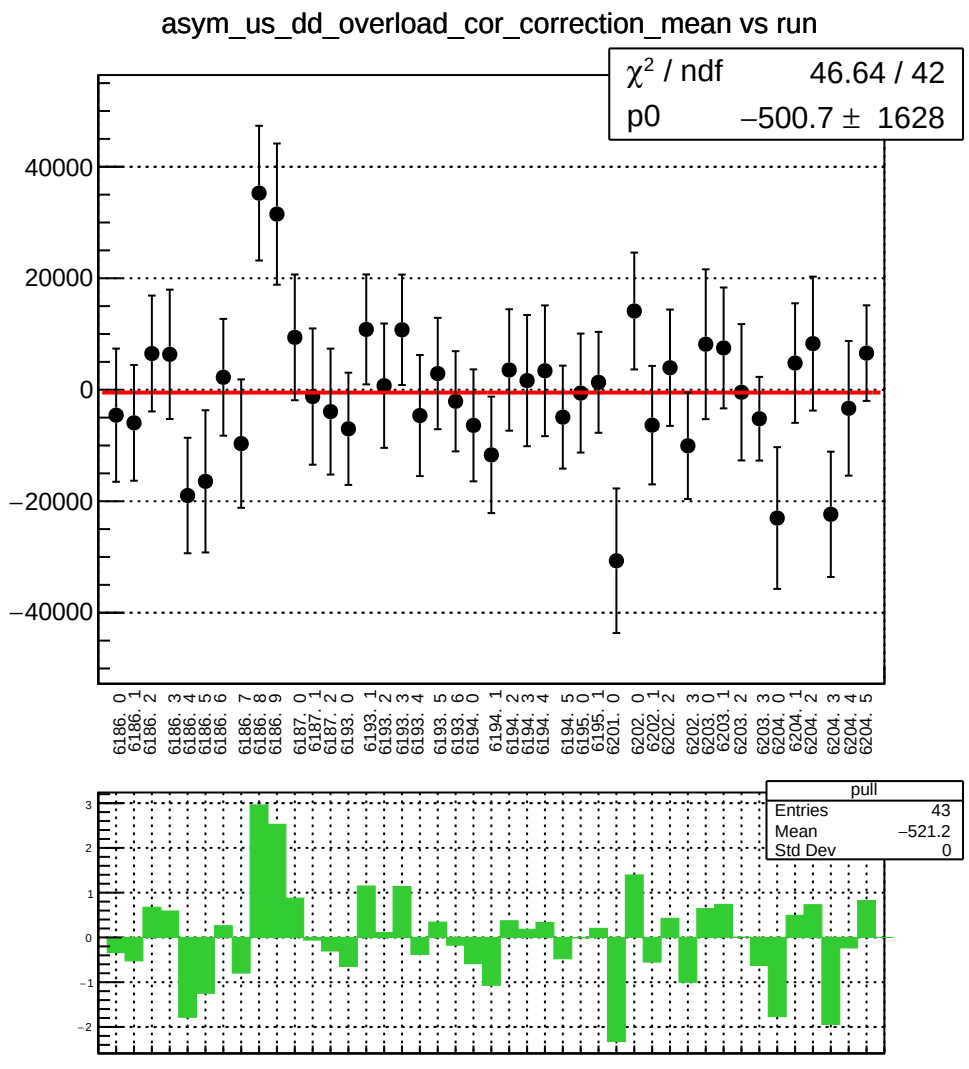
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 46.64 / 42
p0 −500.7 ± 1628
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
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6203. 0
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6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
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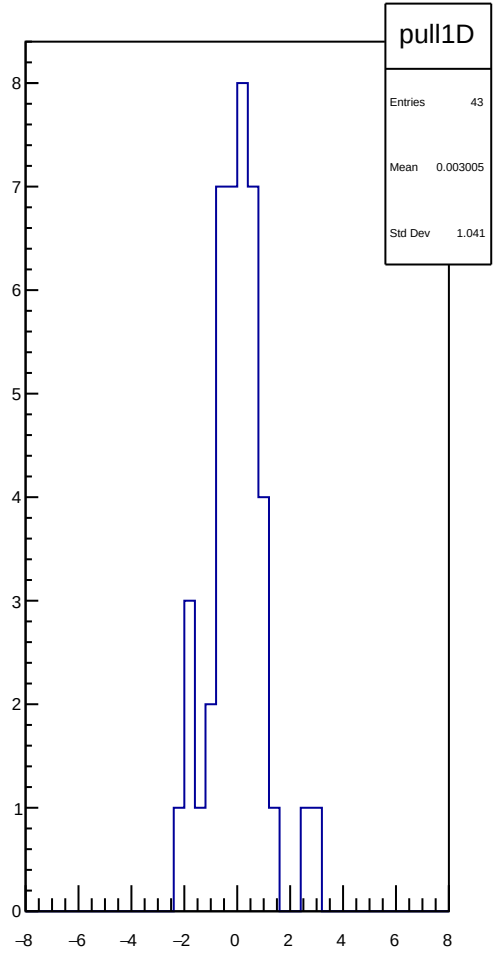
6204. 5
pull
Entries 43
Mean −521.2
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.003005
Std Dev 1.041
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5
4
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0
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−6
−4
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2
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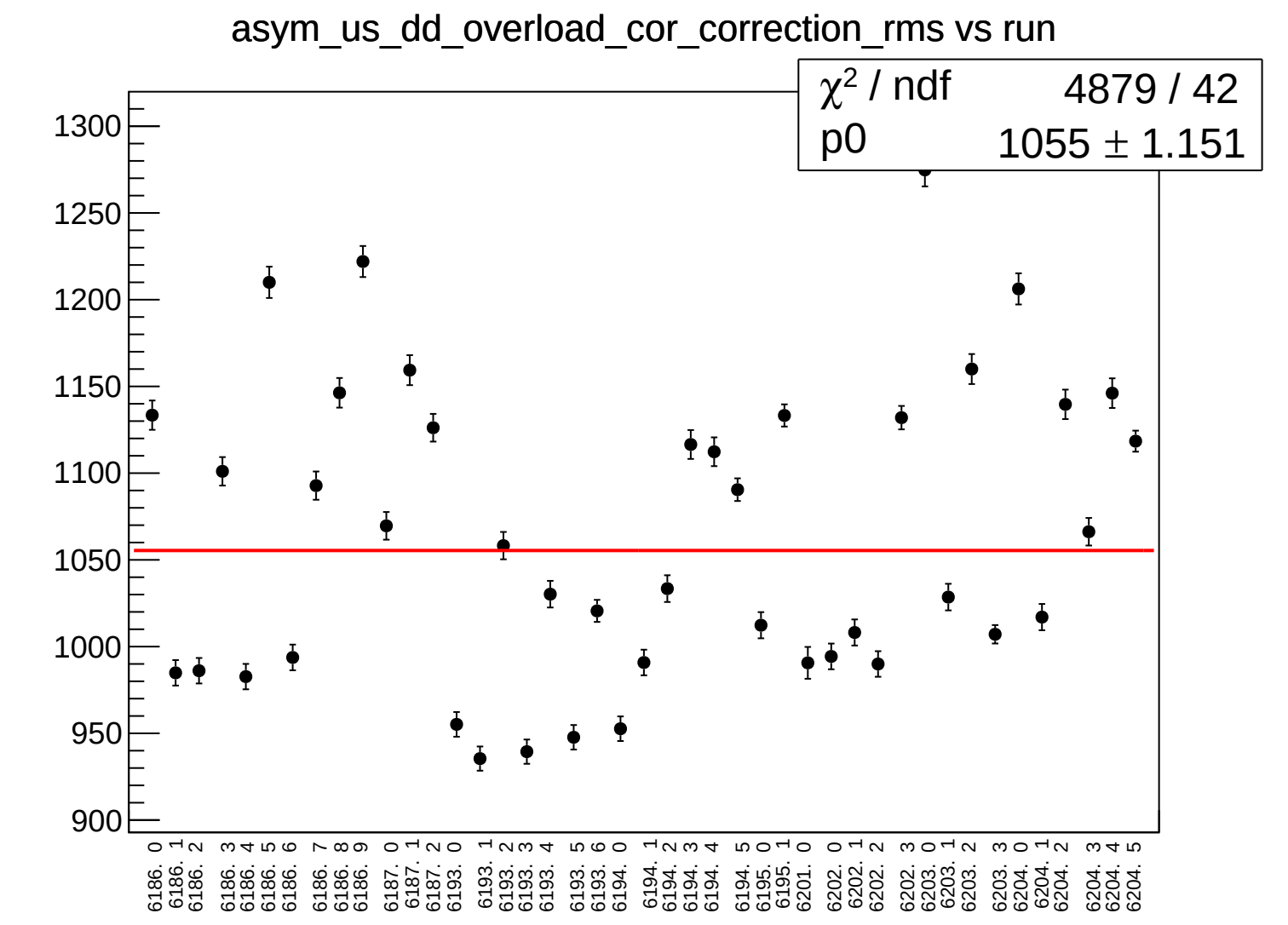
6
8


asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 4879 / 42
p0 1055 ± 1.151
1300
1250
1200
1150
1100
1050
1000
950
900
6186. 0
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6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
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6193. 2
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6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
6204. 0
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6204. 2
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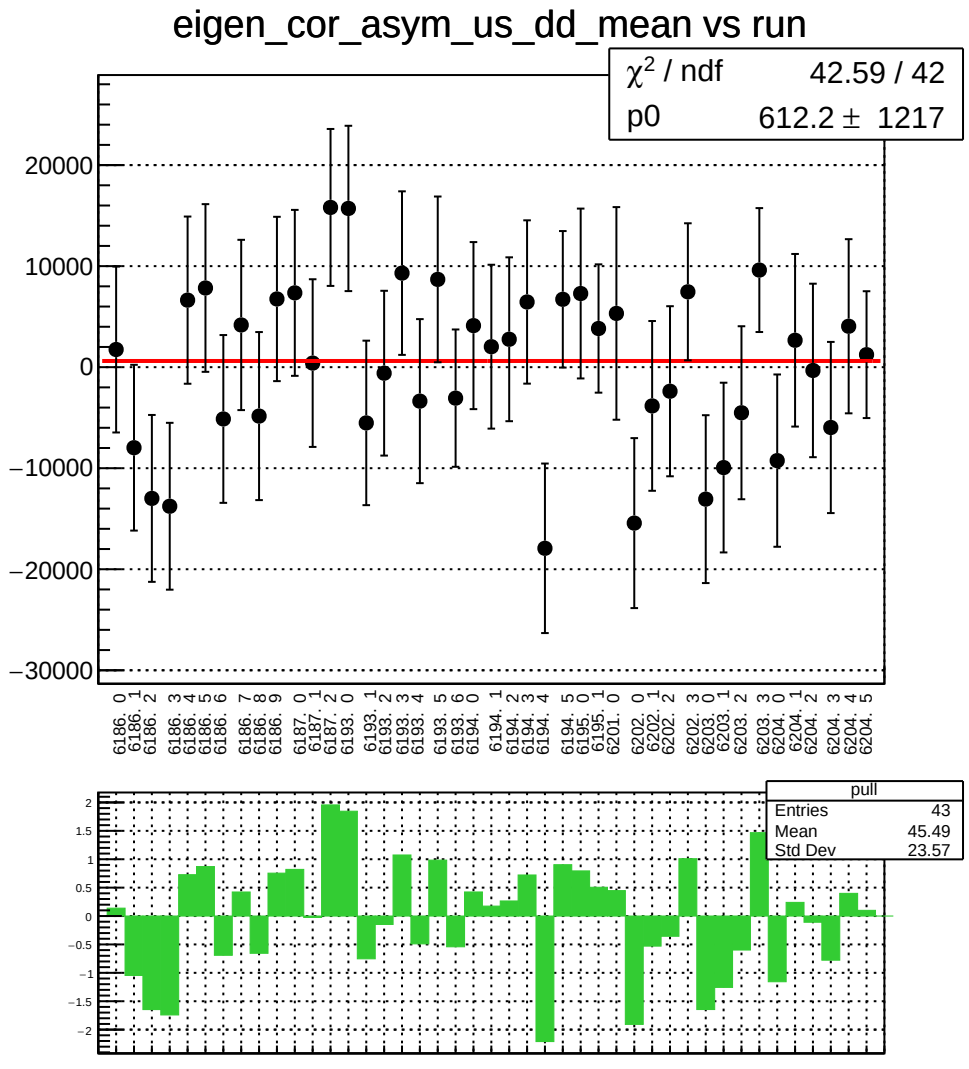
6204. 4
6204. 5


eigen_cor_asym_us_dd_mean vs run
χ² / ndf 42.59 / 42
p0 612.2 ± 1217
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
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6193. 1
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6193. 3
6193. 4
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6193. 6
6194. 0
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6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
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6202. 1
6202. 2
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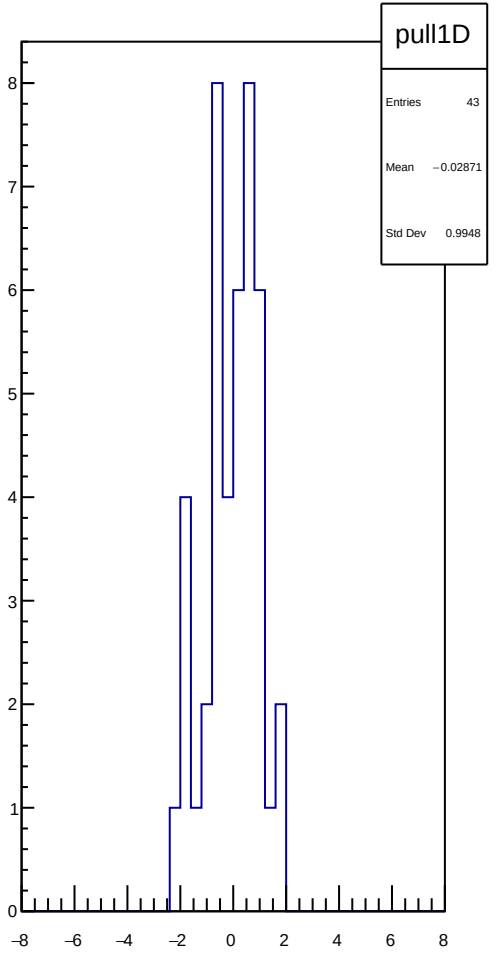
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 45.49
Std Dev 23.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.02871
Std Dev 0.9948
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7
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5
4
3
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1
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−4
−2
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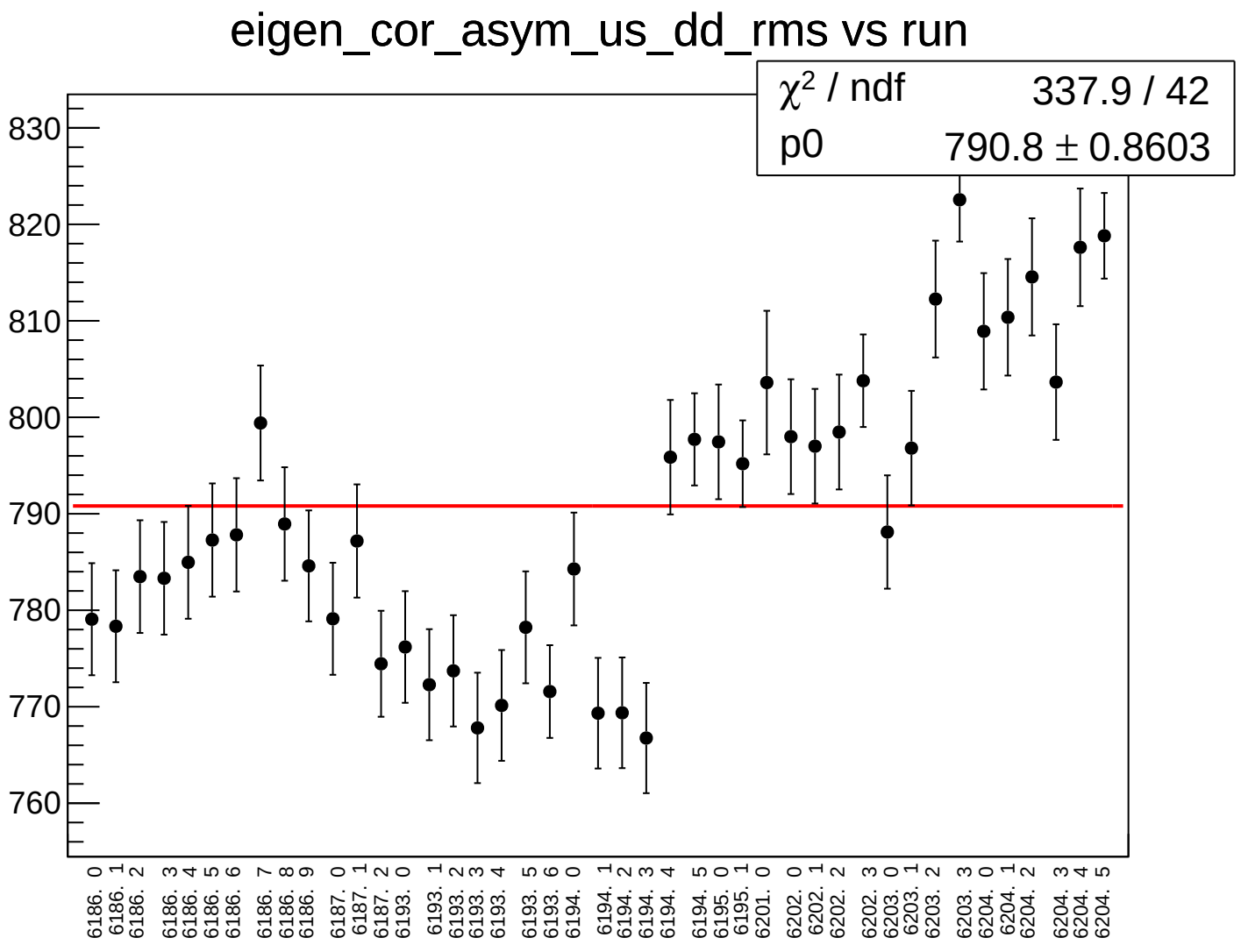
2
4
6
8


eigen_cor_asym_us_dd_rms vs run
χ² / ndf 337.9 / 42
p0 790.8 ± 0.8603
830
820
810
800
790
780
770
760
6186. 0
6186. 1
6186. 2
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6186. 8
6186. 9
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6194. 0
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6194. 2
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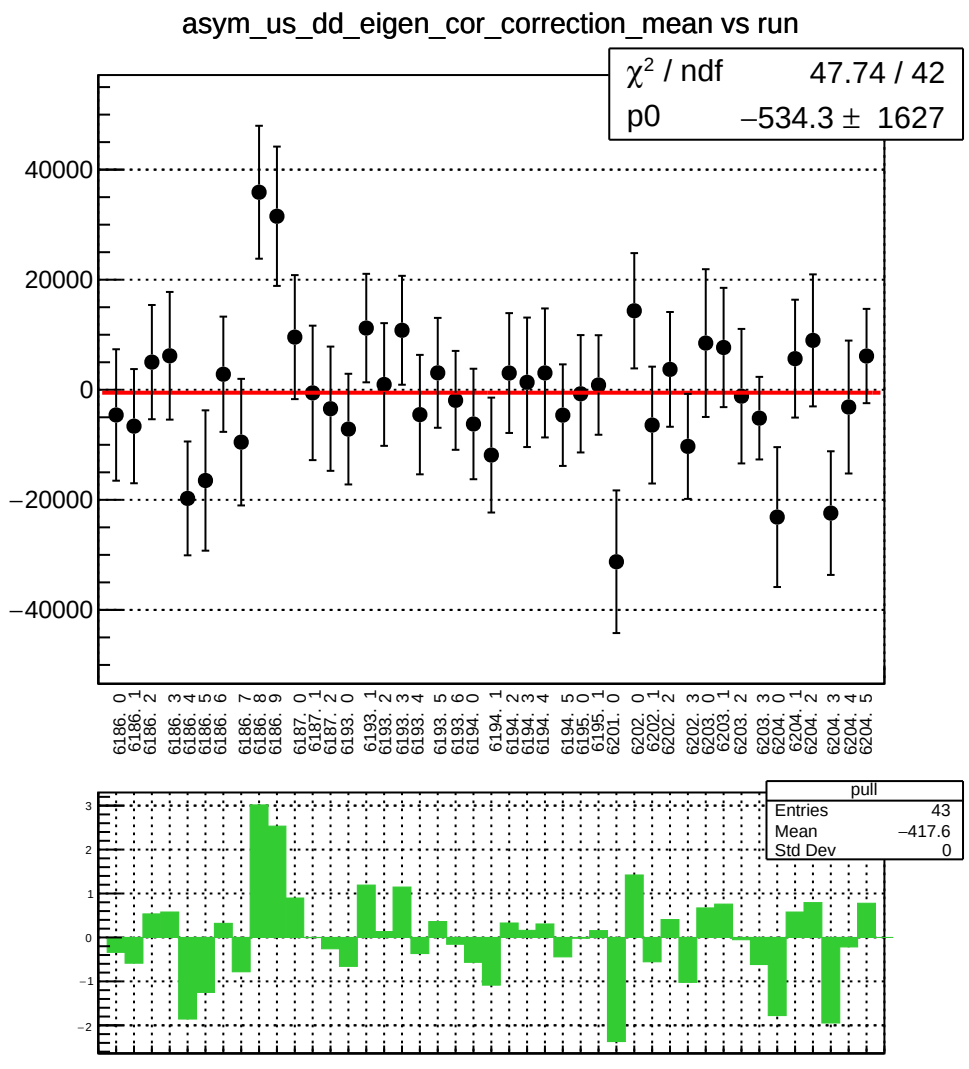
asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 47.74 / 42
p0 −534.3 ± 1627
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
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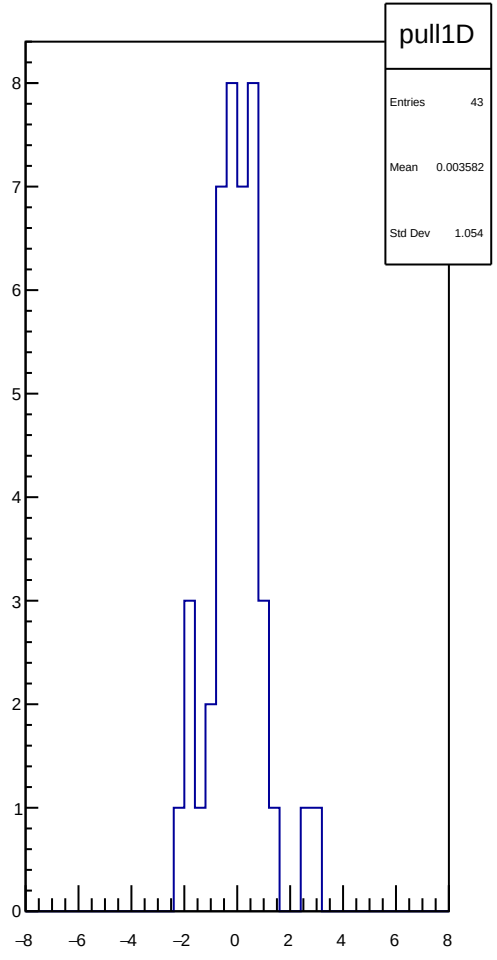
6204. 5
pull
Entries 43
Mean −417.6
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.003582
Std Dev 1.054
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4
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1
0
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−4
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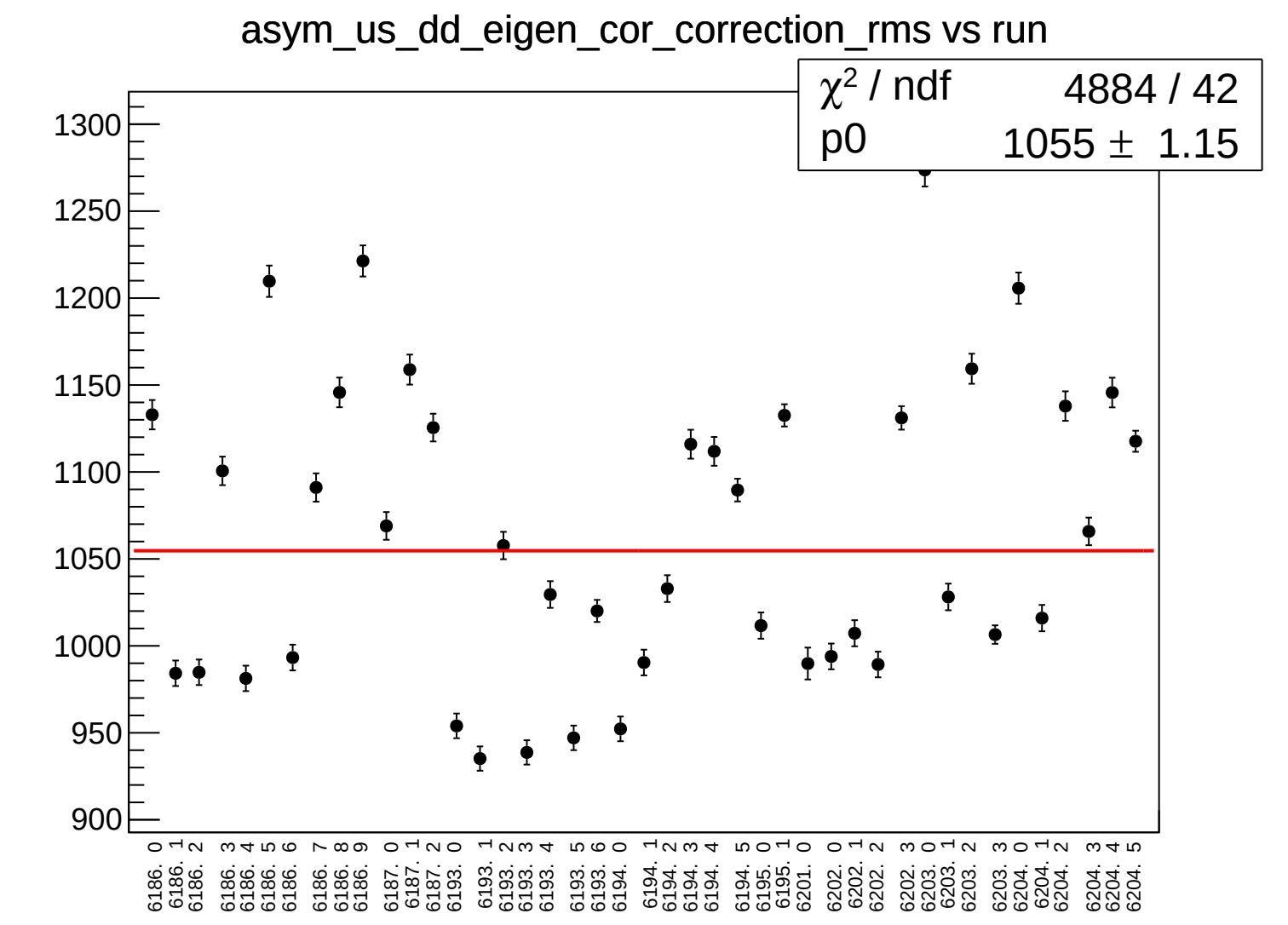
8


asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 4884 / 42
p0 1055 ± 1.15
1300
1250
1200
1150
1100
1050
1000
950
900
6186. 0
6186. 1
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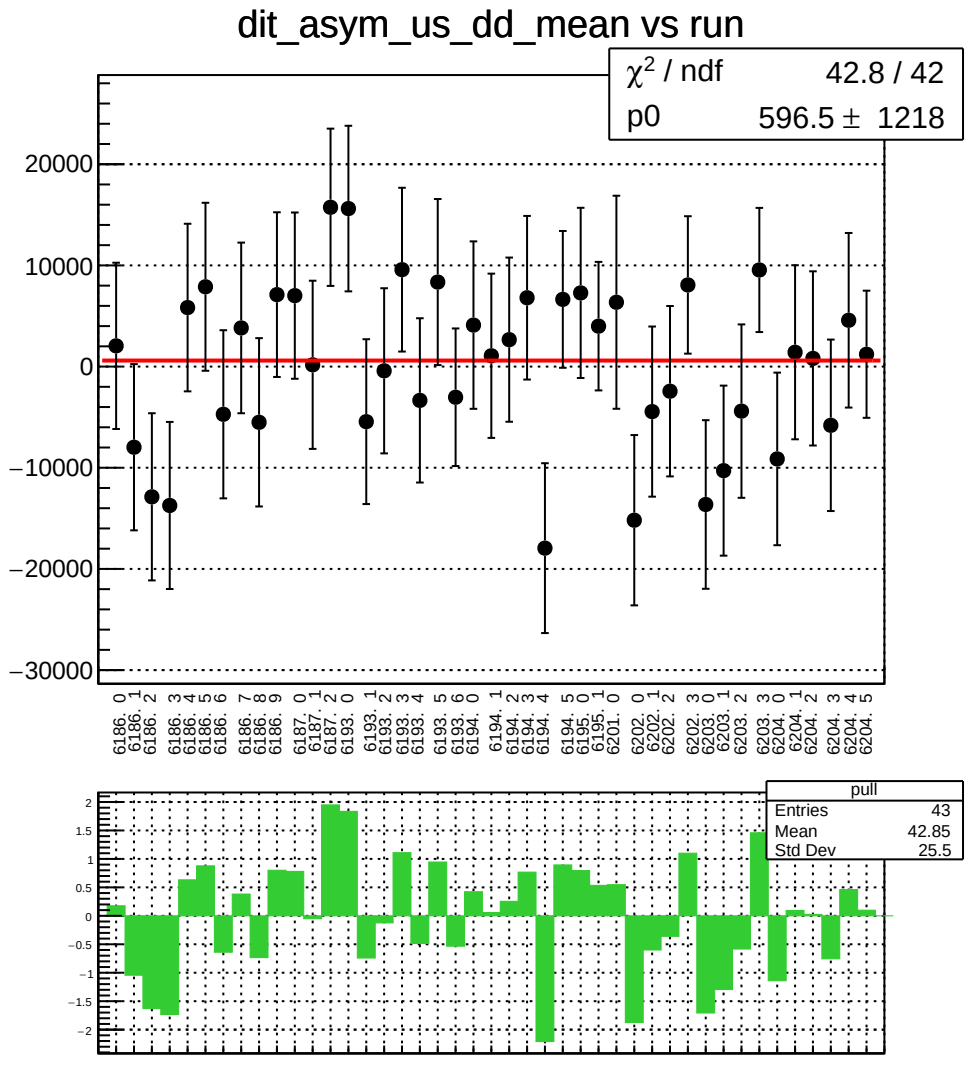
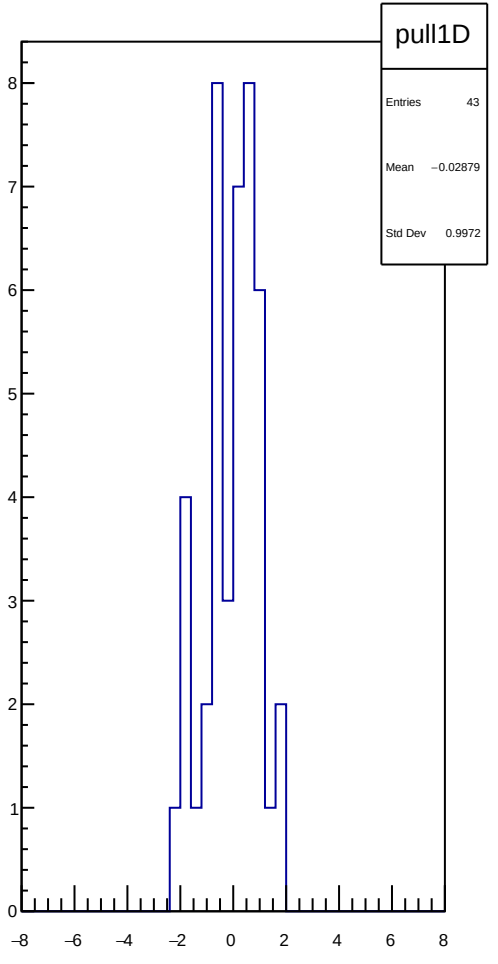
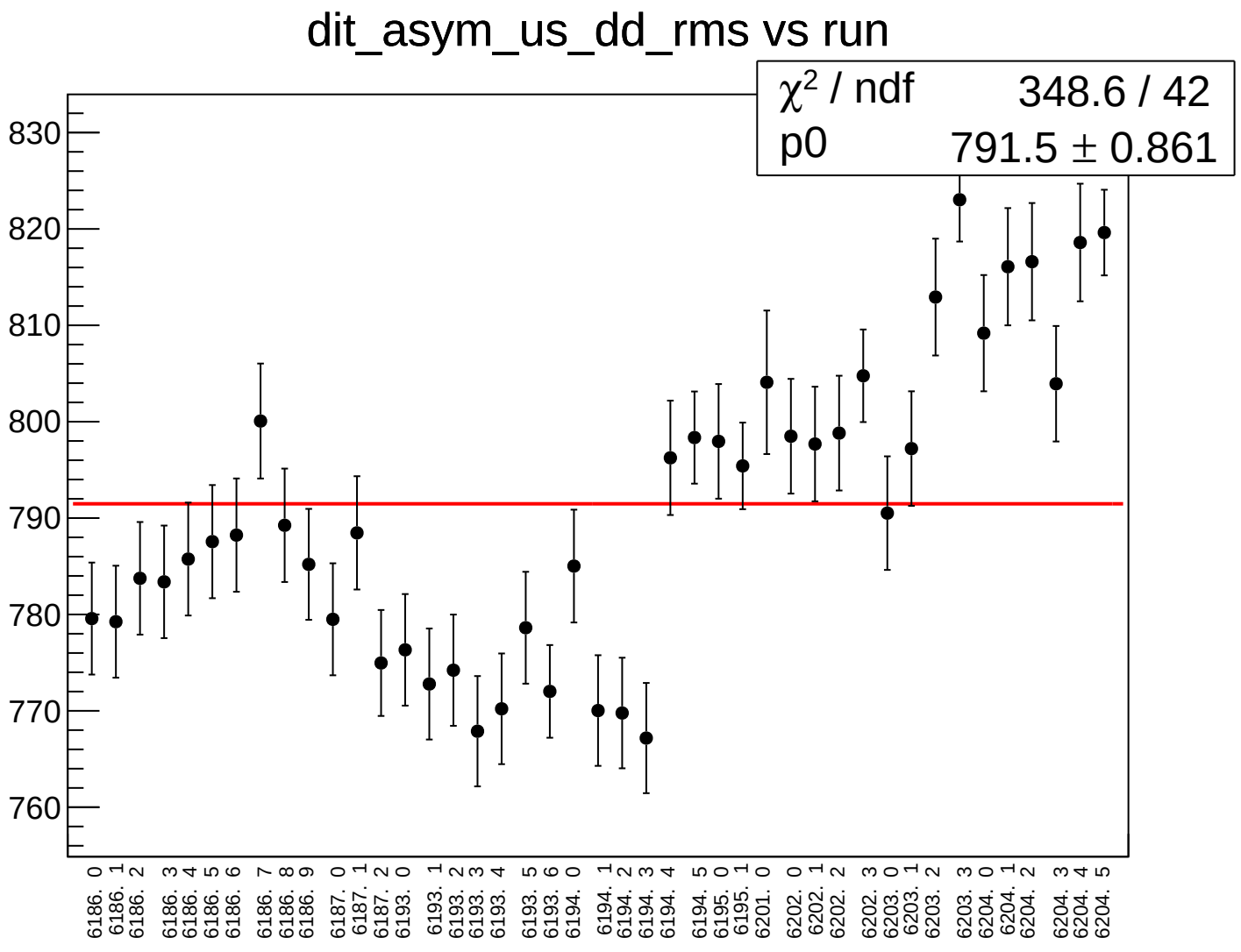
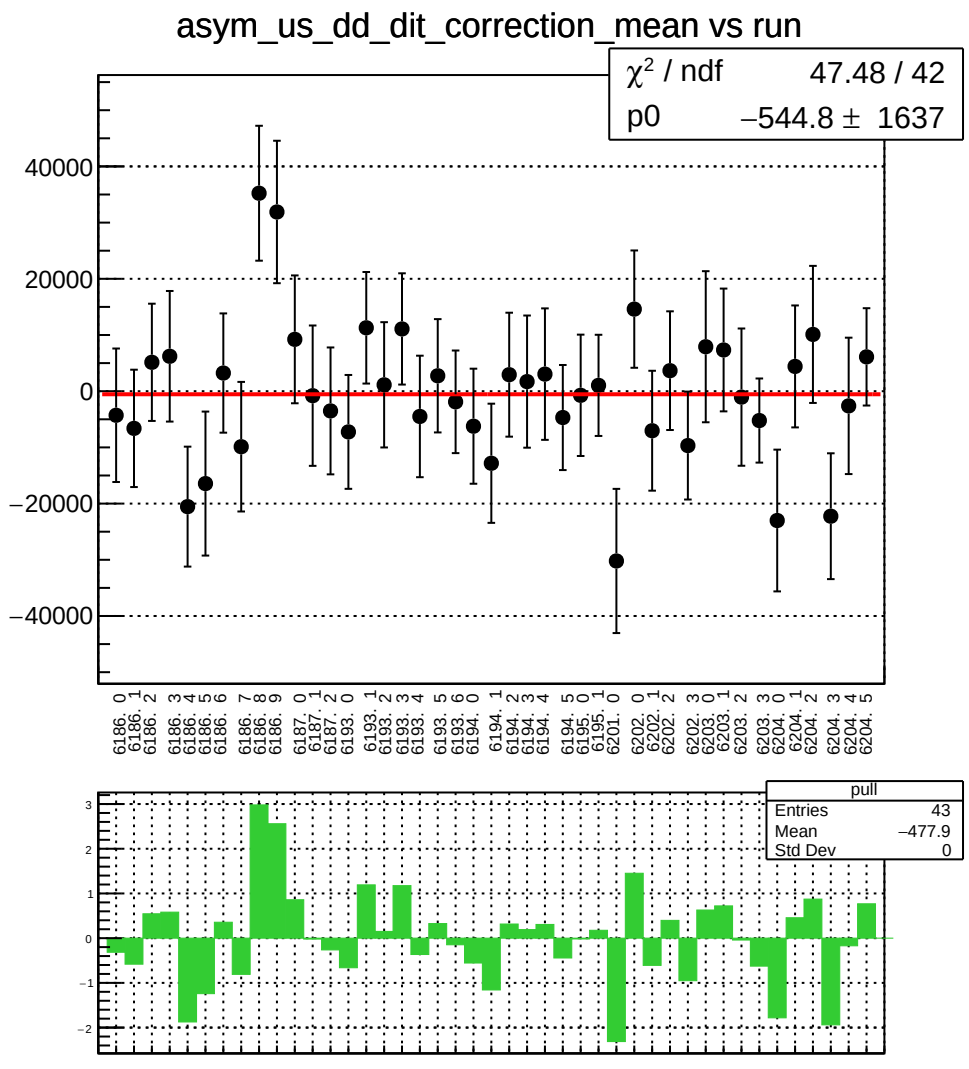
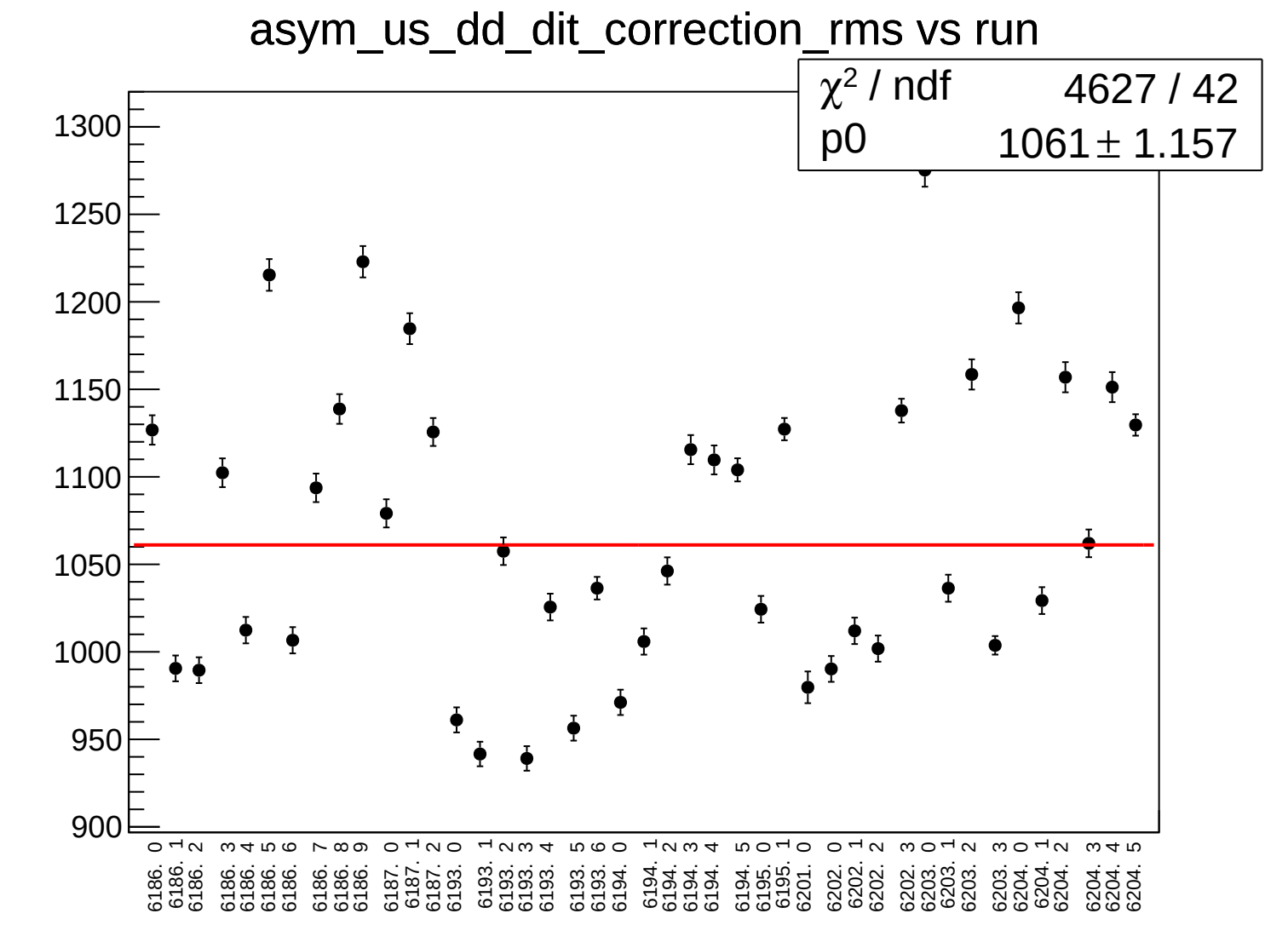
6204. 4
6204. 5


dit_asym_us_dd_mean vs run
χ² / ndf 42.8 / 42
p0 596.5 ± 1218
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 42.85
Std Dev 25.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.02879
Std Dev 0.9972
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_rms vs run
χ^2 / ndf 348.6 / 42
p0 791.5 ± 0.861
830
820
810
800
790
780
770
760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_dit_correction_mean vs run
χ² / ndf 47.48 / 42
p0 −544.8 ± 1637
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −477.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.003148
Std Dev 1.051
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 4627 / 42
p0 1061 ± 1.157
1300
1250
1200
1150
1100
1050
1000
950
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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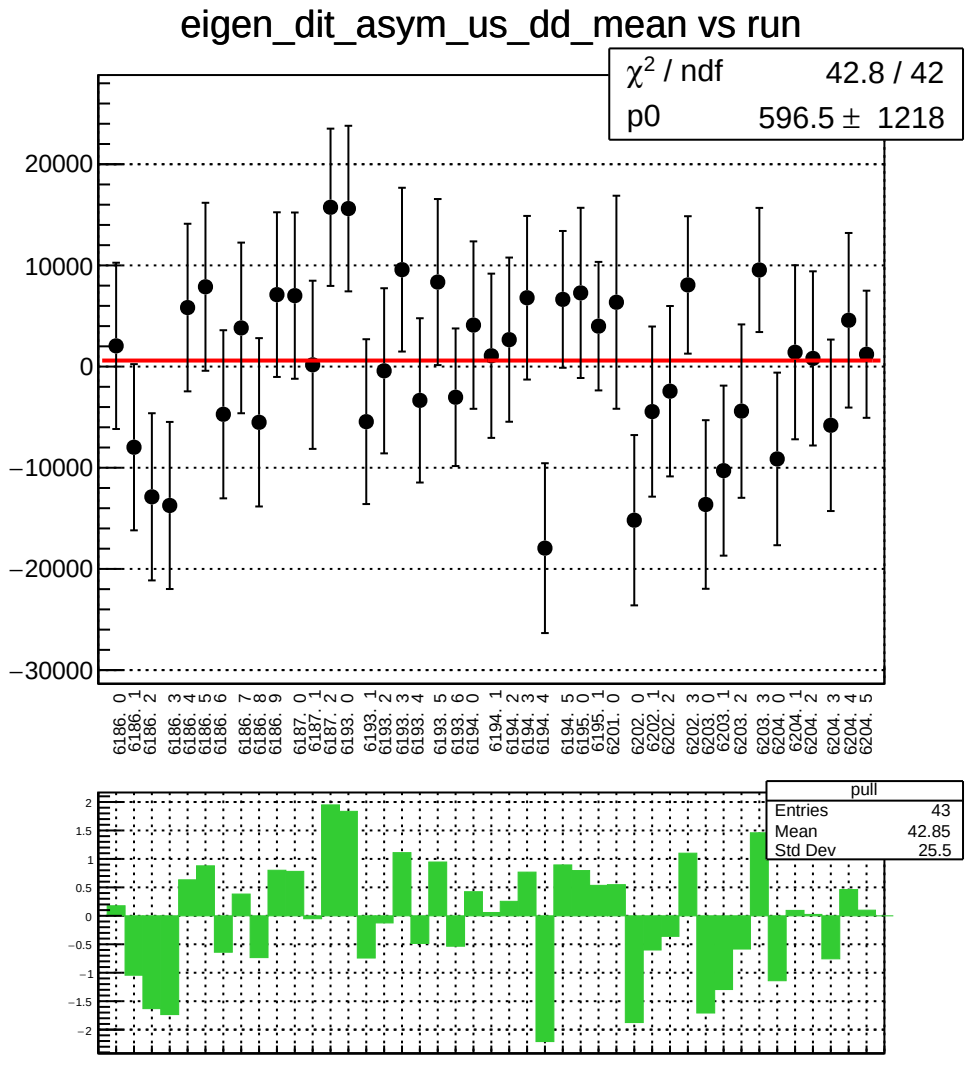
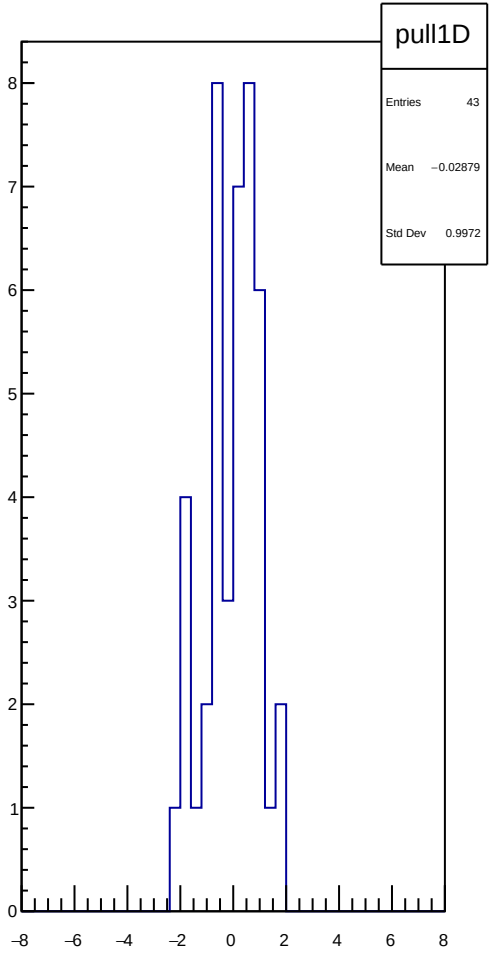
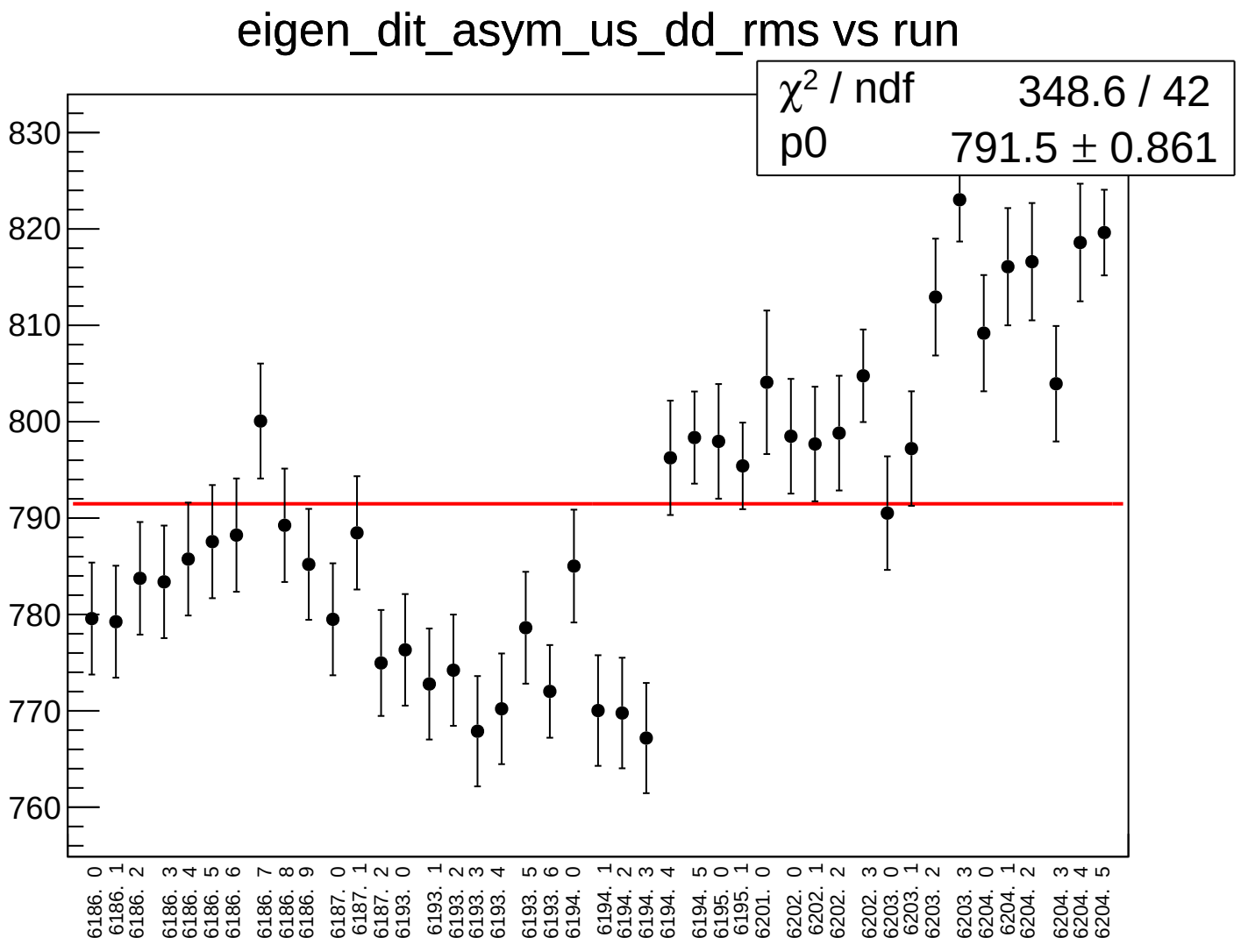
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_us_dd_mean vs run
χ² / ndf 42.8 / 42
p0 596.5 ± 1218
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 42.85
Std Dev 25.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.02879
Std Dev 0.9972
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_rms vs run
χ² / ndf 348.6 / 42
p0 791.5 ± 0.861
830
820
810
800
790
780
770
760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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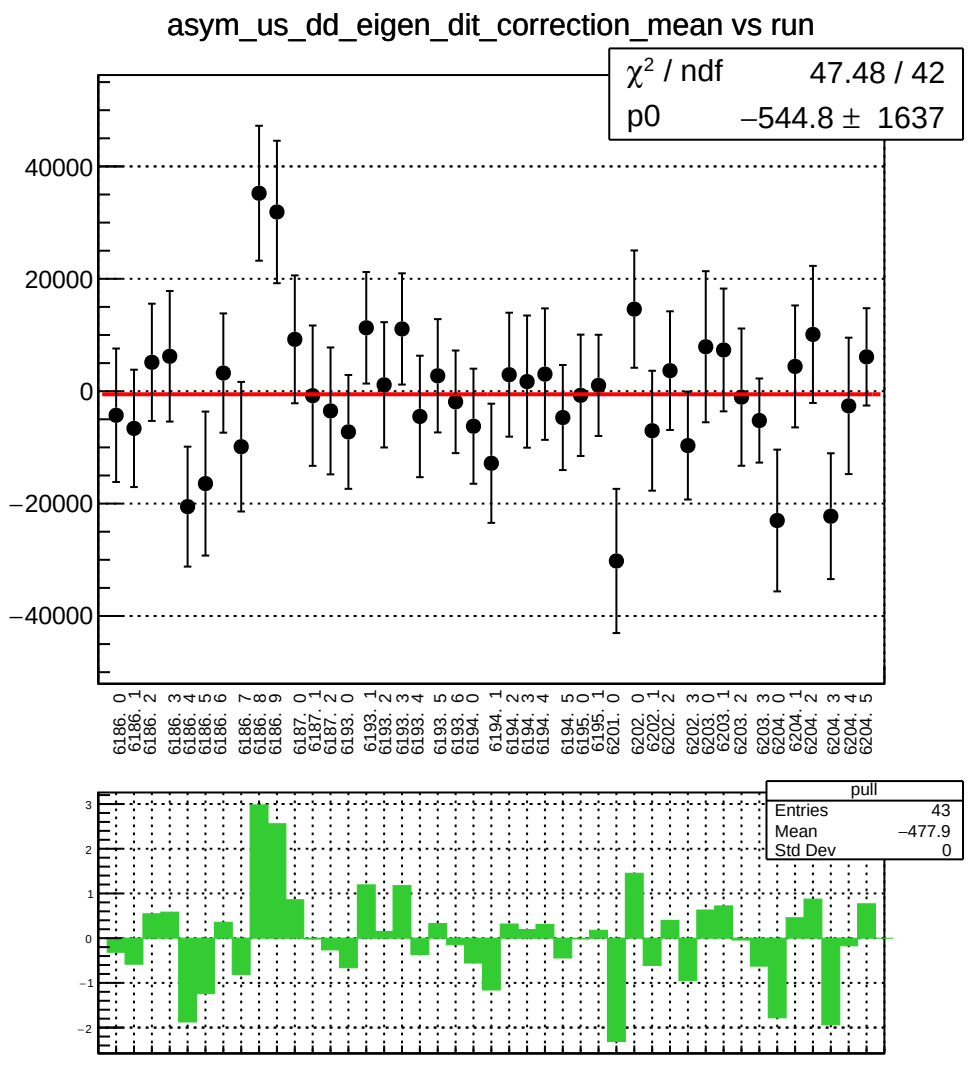
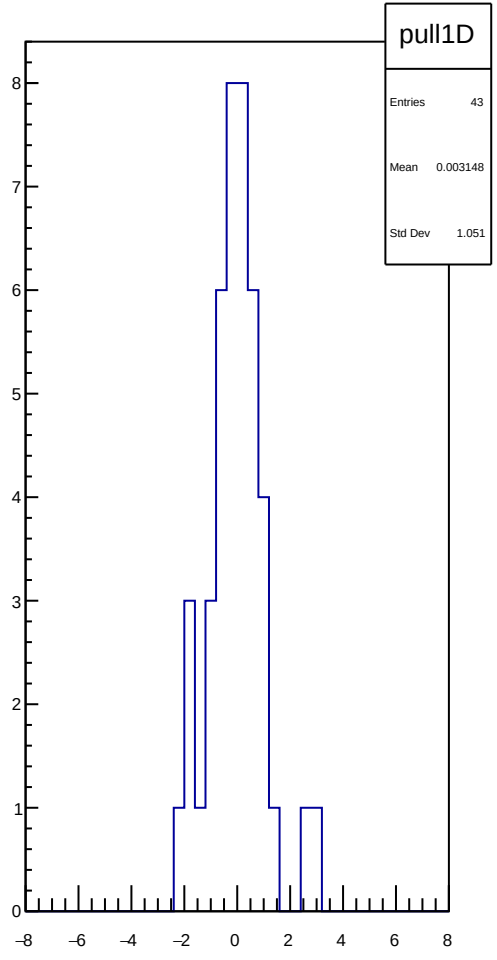
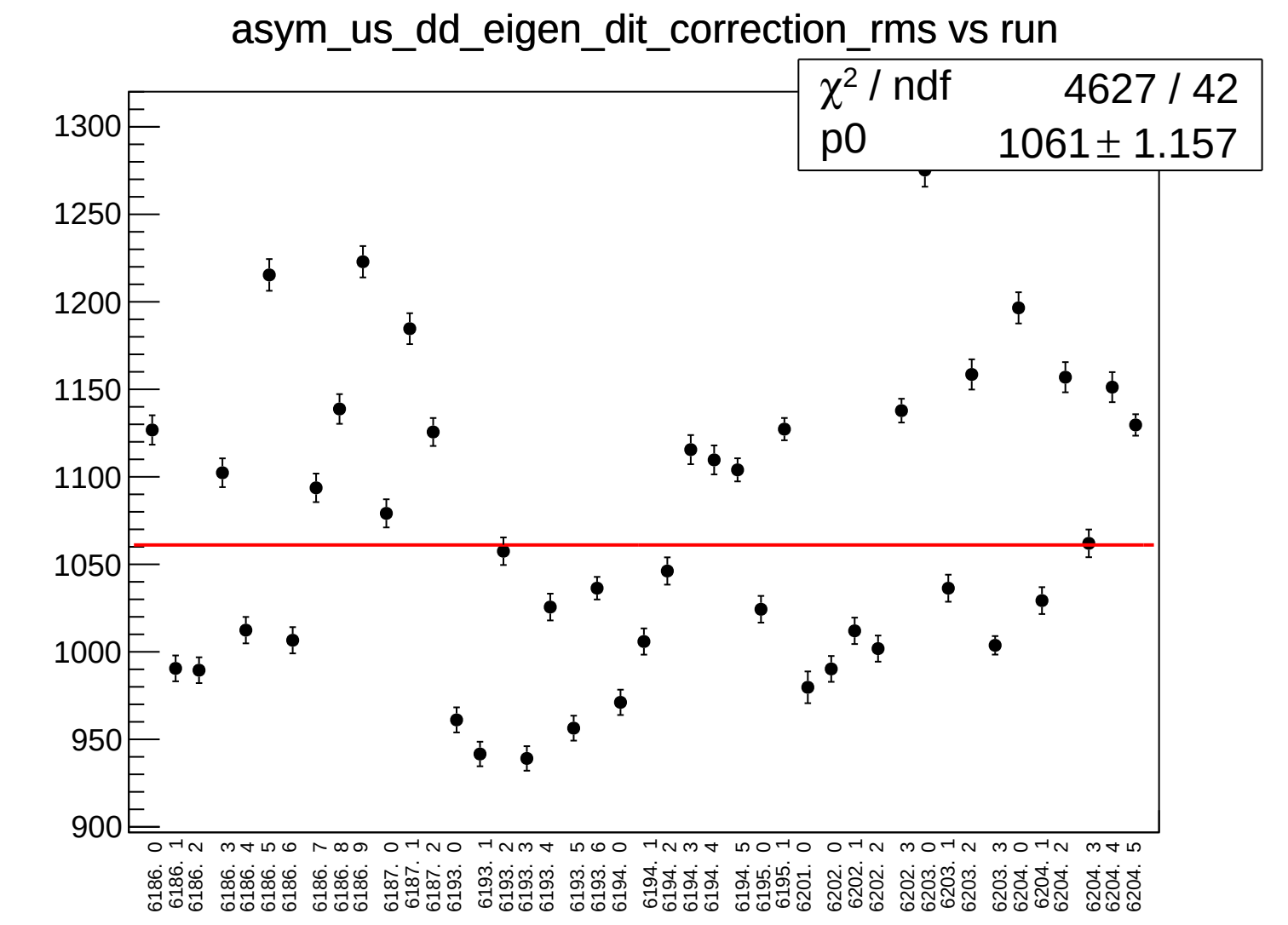
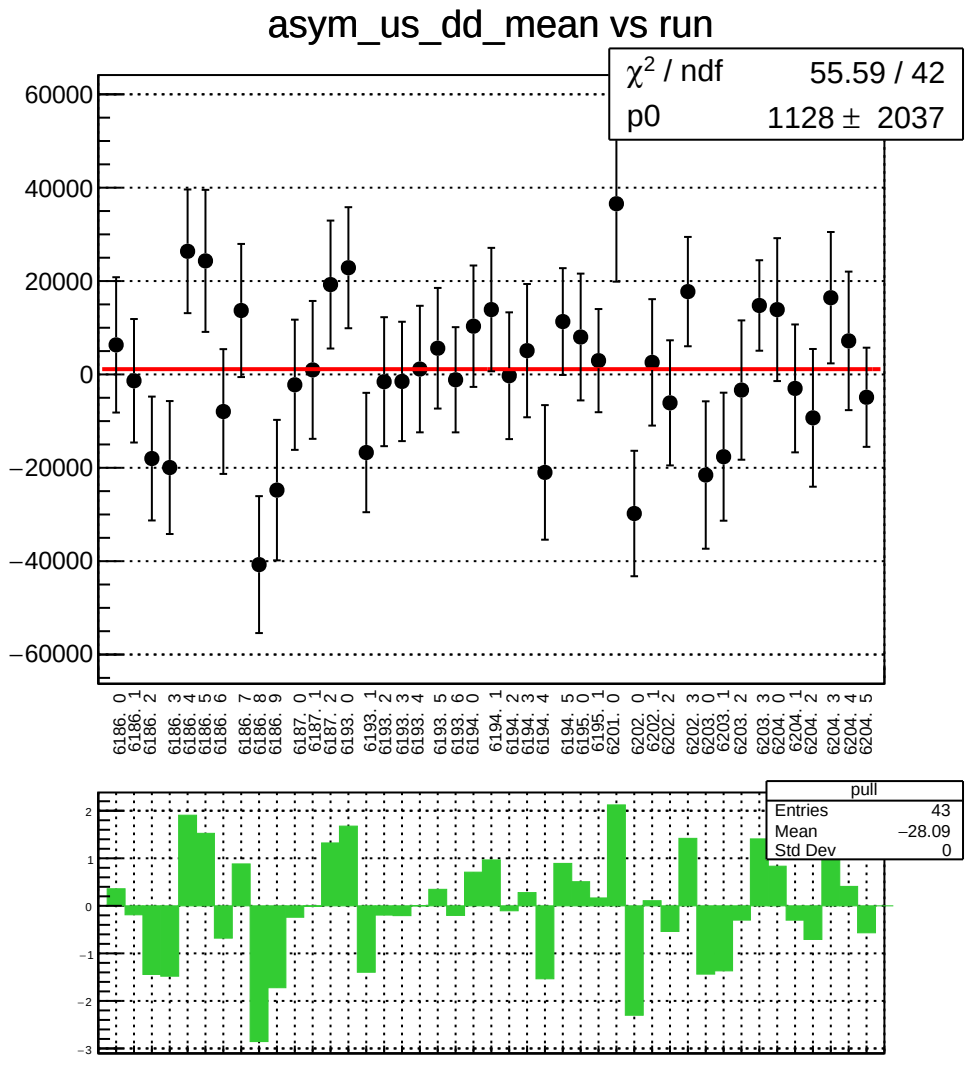
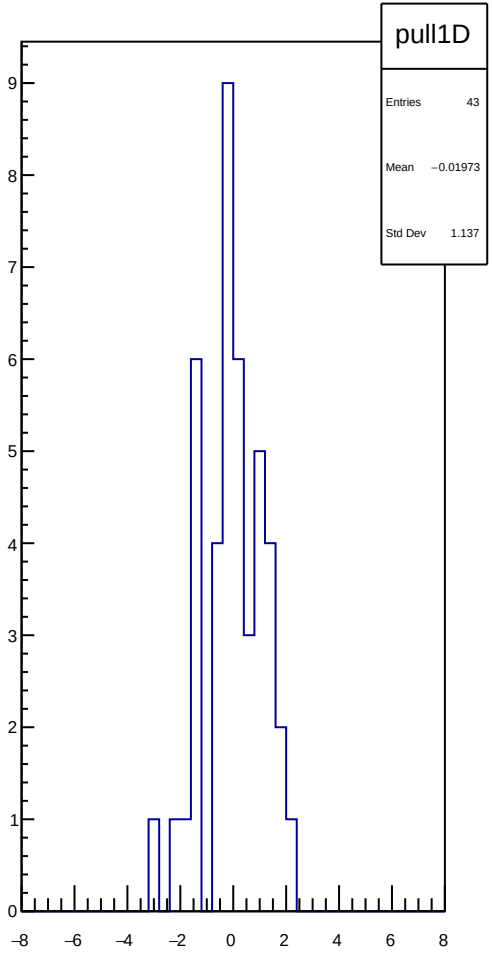
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

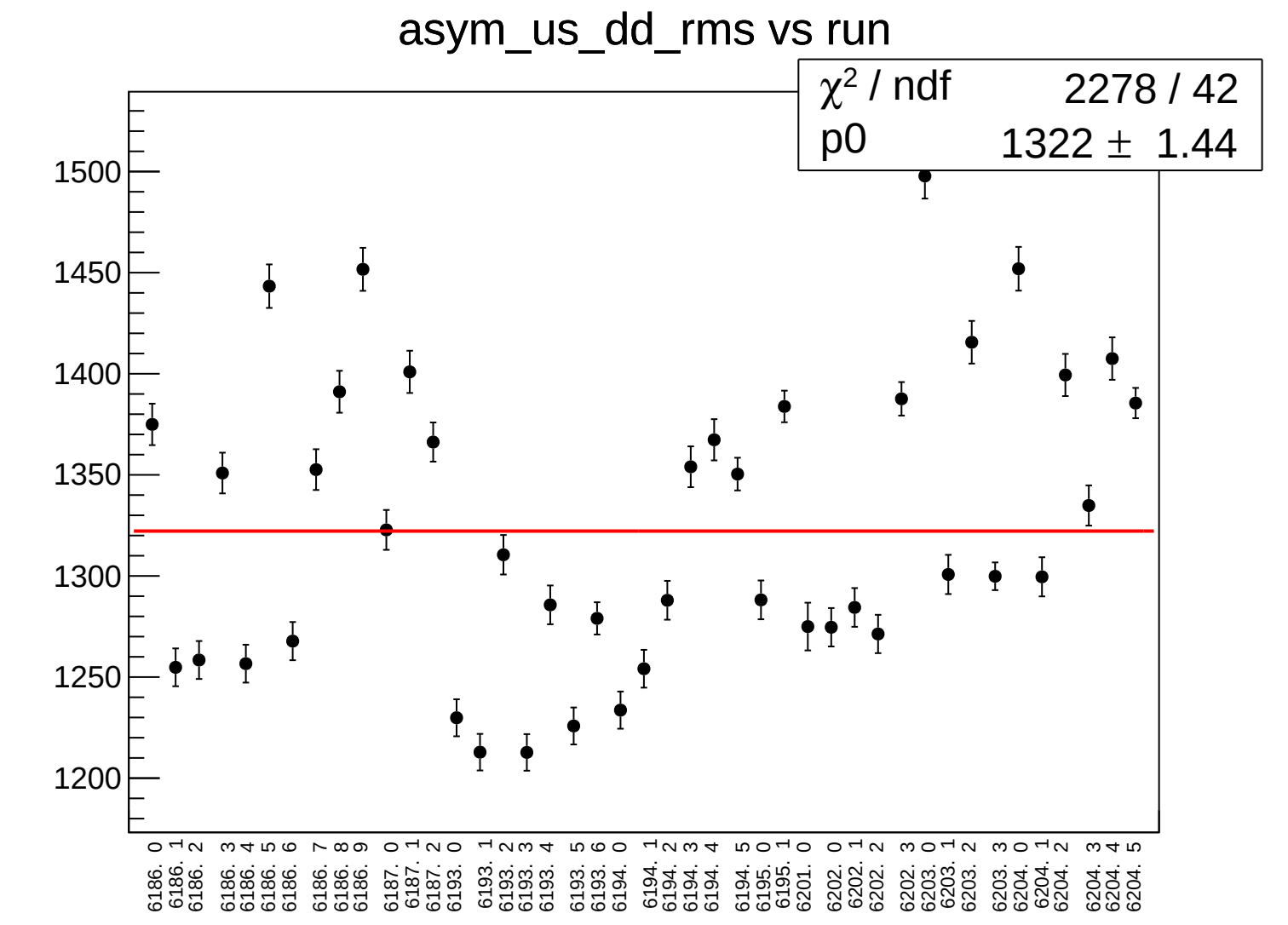

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 47.48 / 42
p0 −544.8 ± 1637
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −477.9
Std Dev 0
3
2
1
0
−1
−2

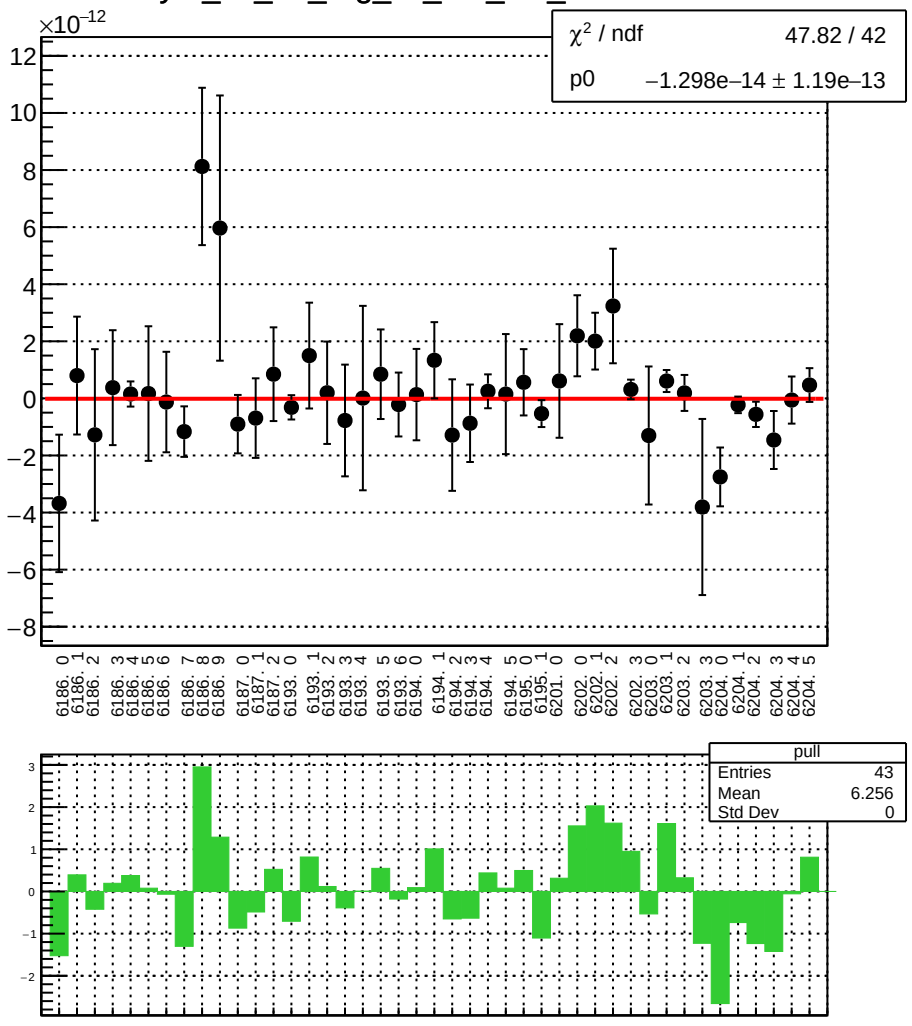

pull1D
Entries 43
Mean 0.003148
Std Dev 1.051
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

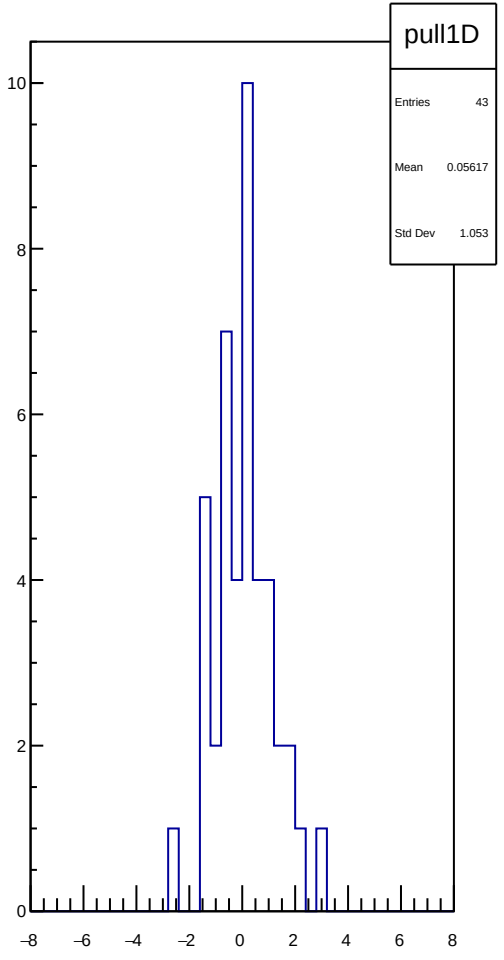

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 4627 / 42
p0 1061 ± 1.157
1300
1250
1200
1150
1100
1050
1000
950
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

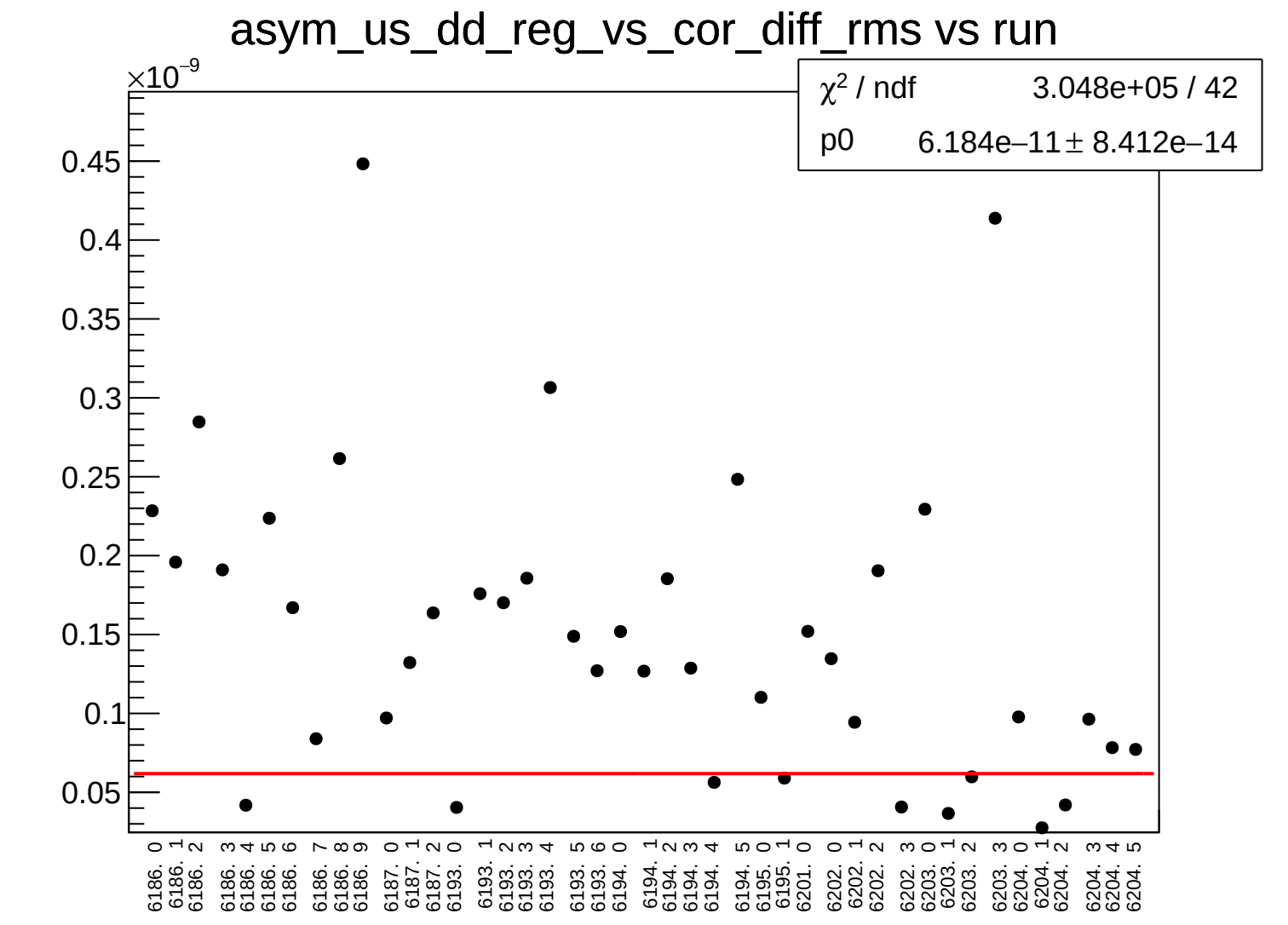

asym_us_dd_mean vs run
χ² / ndf 55.59 / 42
p0 1128 ± 2037
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −28.09
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.01973
Std Dev 1.137
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 2278 / 42
p0 1322 ± 1.44
1500
1450
1400
1350
1300
1250
1200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 47.82 / 42
p0 −1.298e−14 ± 1.19e−13
pull
Entries 43
Mean 6.256
Std Dev 0


pull1D
Entries 43
Mean 0.05617
Std Dev 1.053


asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.048e+05 / 42
p0 6.184e−11 ± 8.412e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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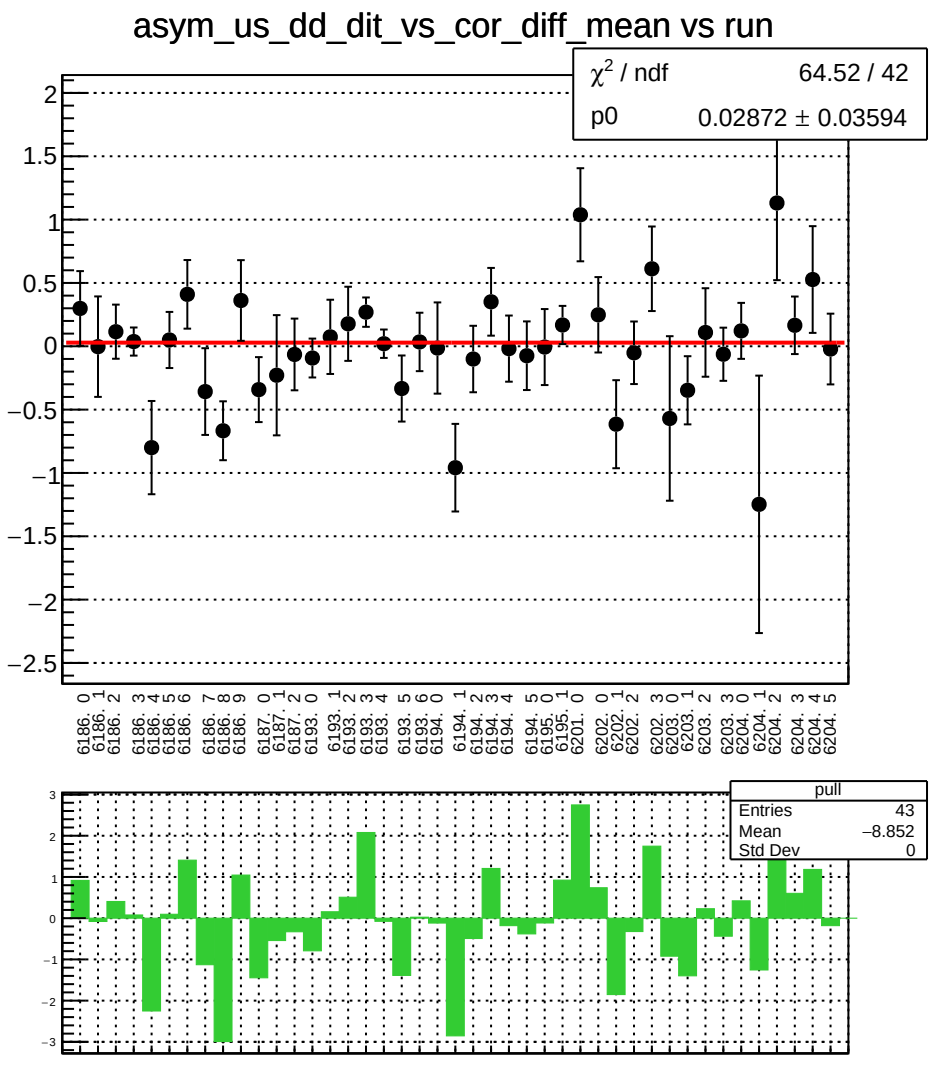
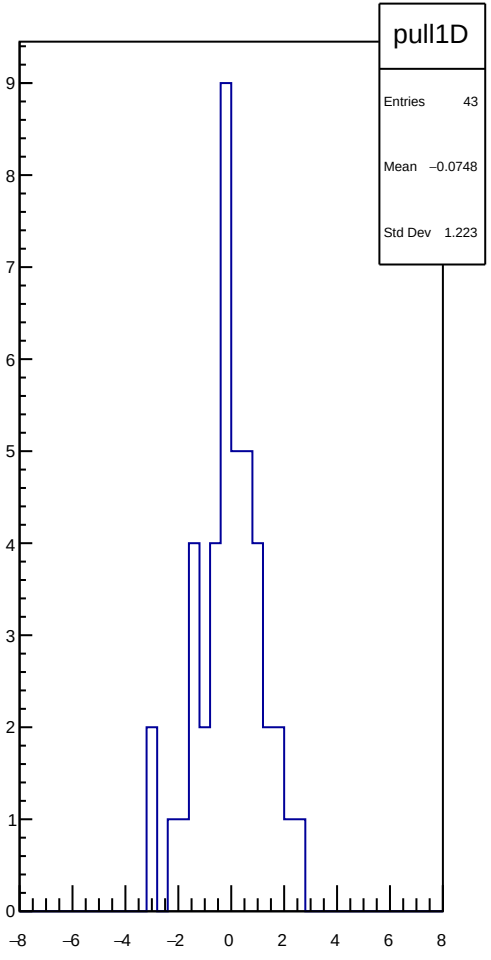
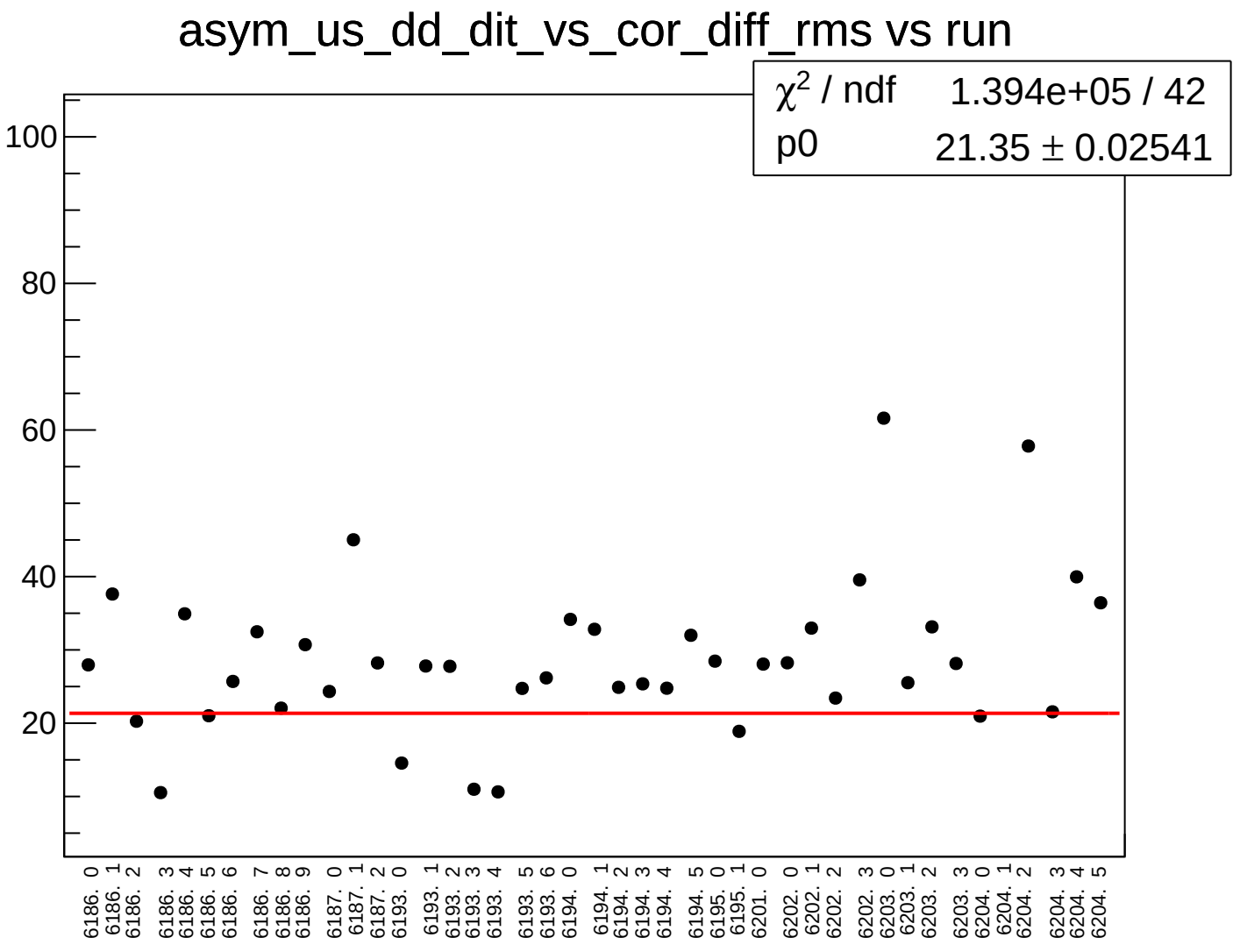
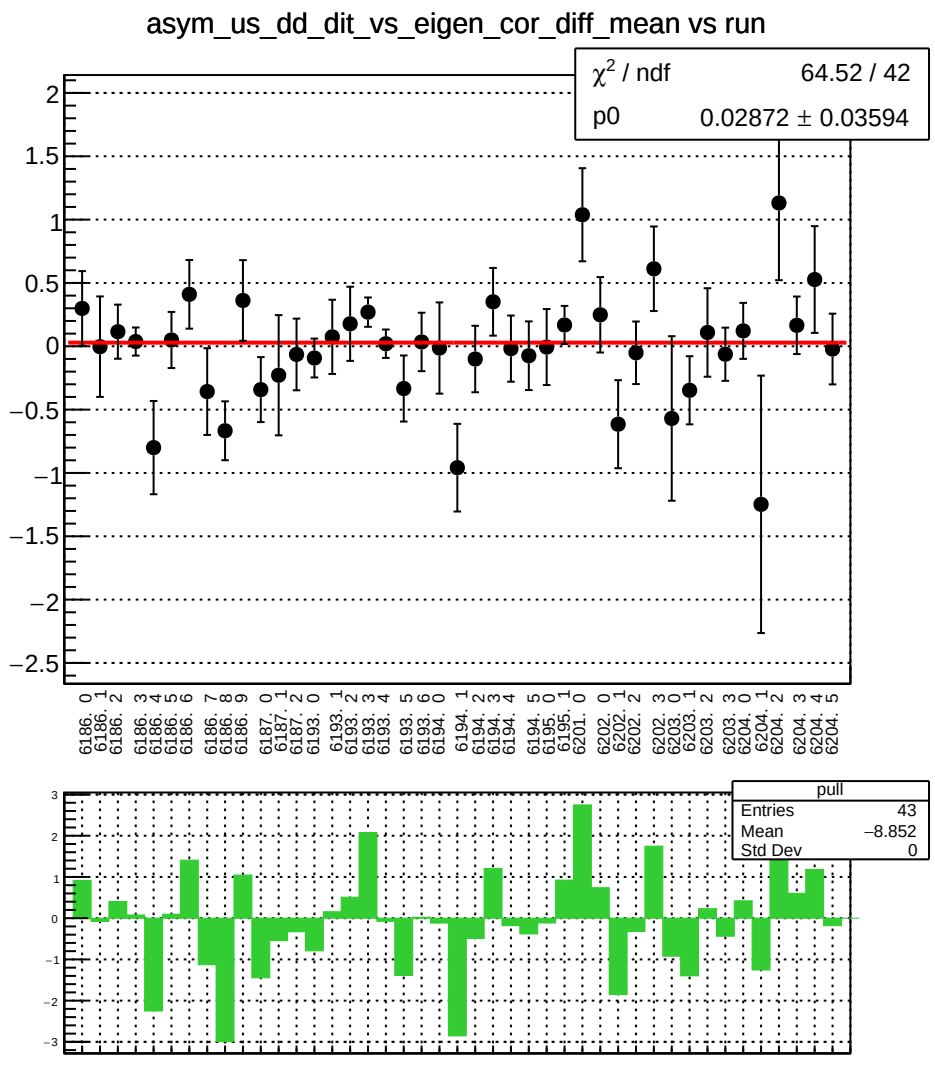
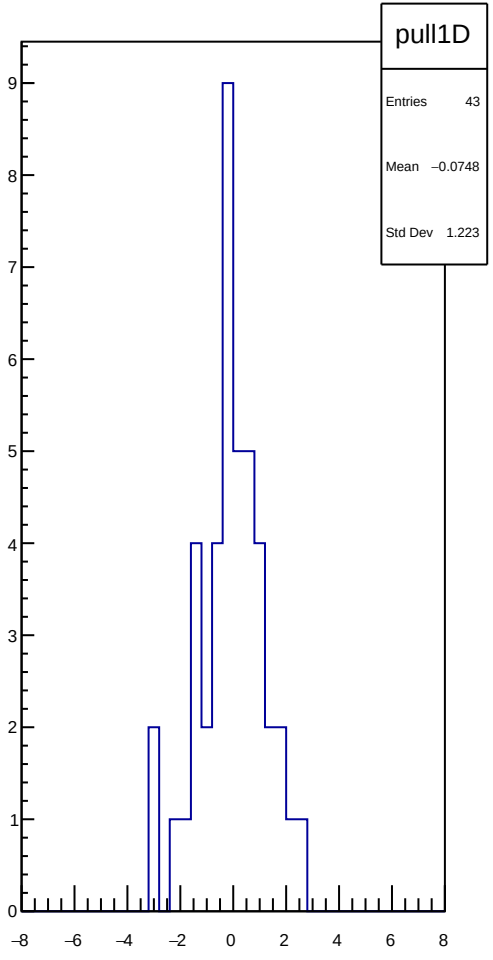
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

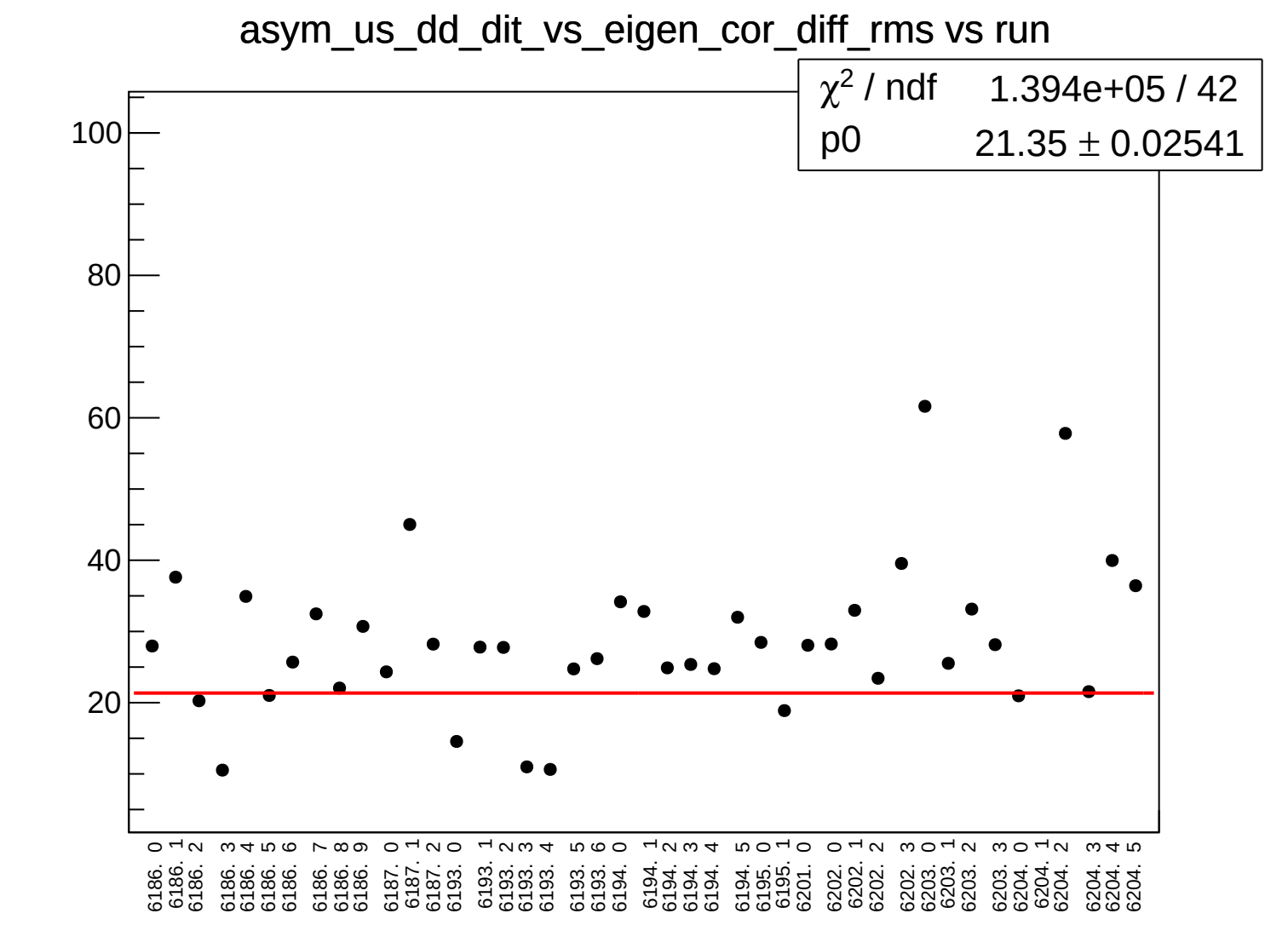

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.52 / 42
p0 0.02872 ± 0.03594
pull
Entries 43
Mean −8.852
Std Dev 0


pull1D
Entries 43
Mean −0.0748
Std Dev 1.223


asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.394e+05 / 42
p0 21.35 ± 0.02541
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.52 / 42
p0 0.02872 ± 0.03594
pull
Entries 43
Mean −8.852
Std Dev 0


pull1D
Entries 43
Mean −0.0748
Std Dev 1.223


asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.394e+05 / 42
p0 21.35 ± 0.02541
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
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6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
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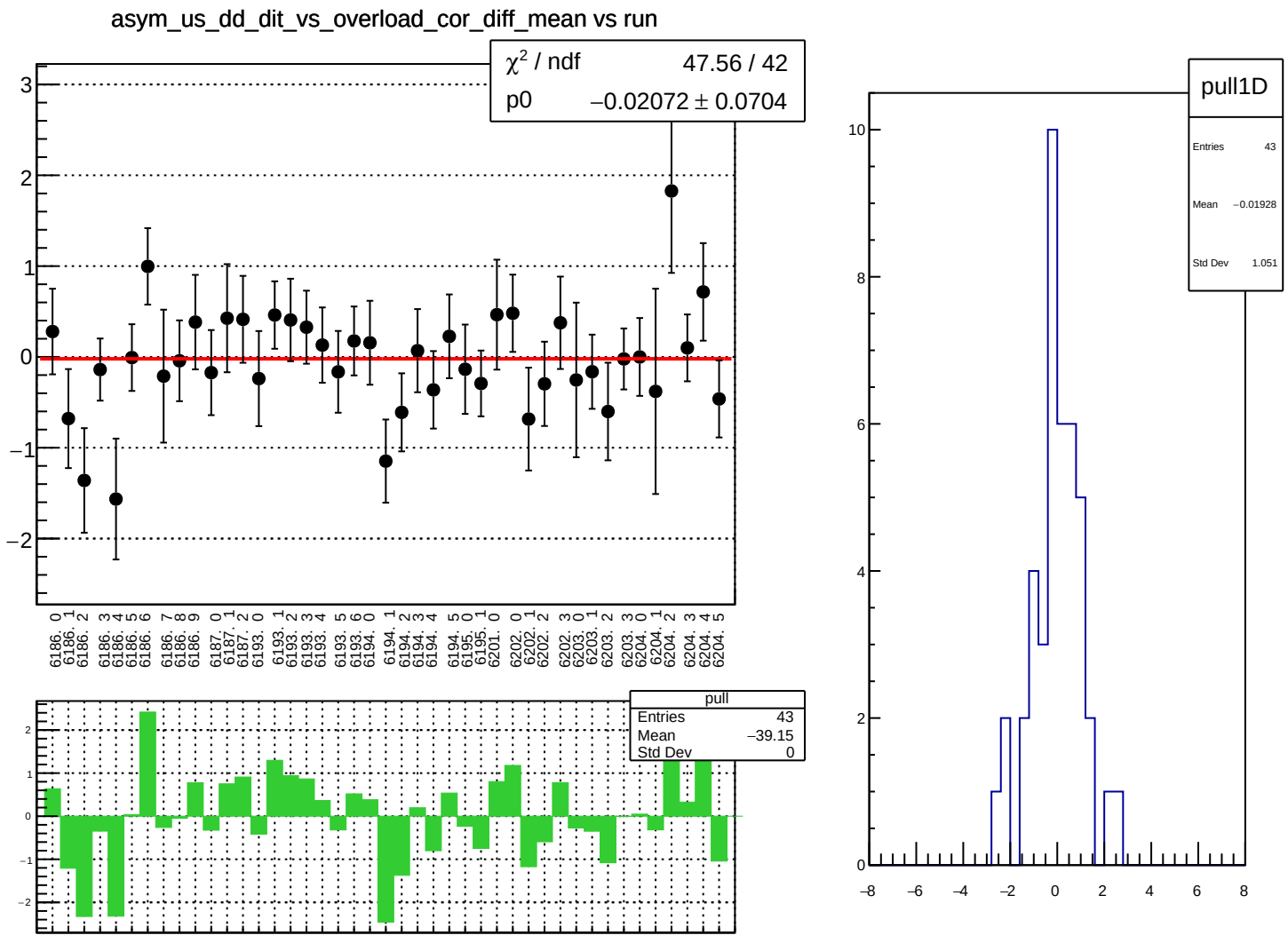
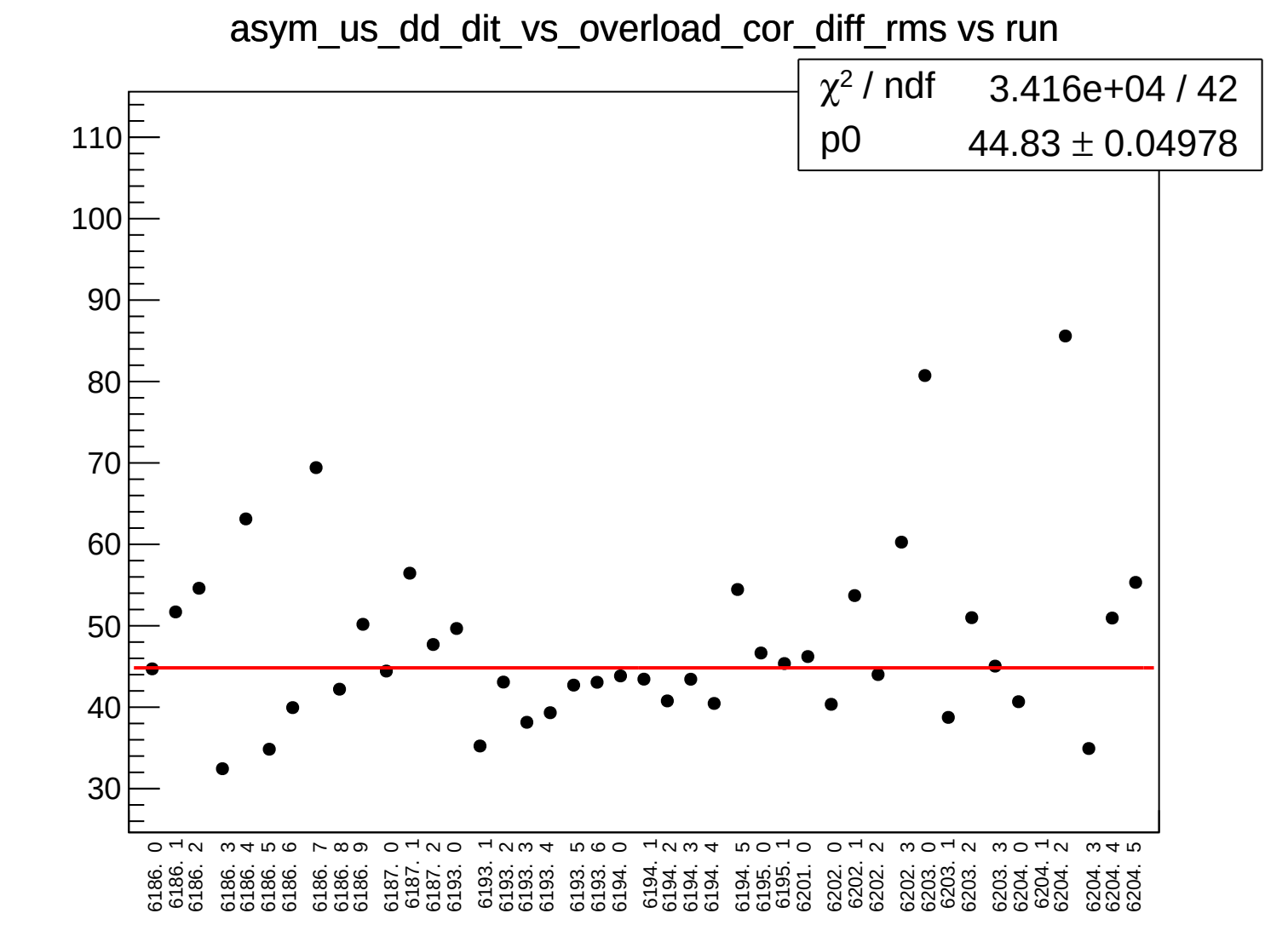
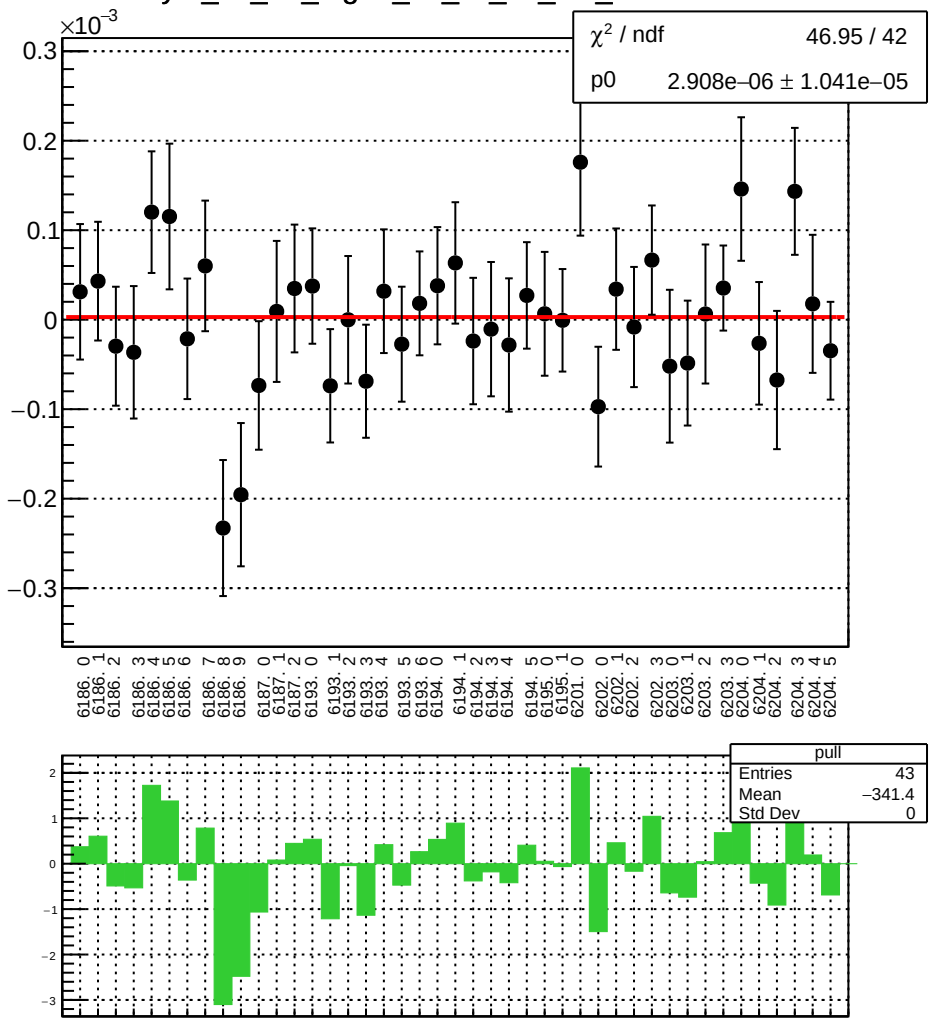
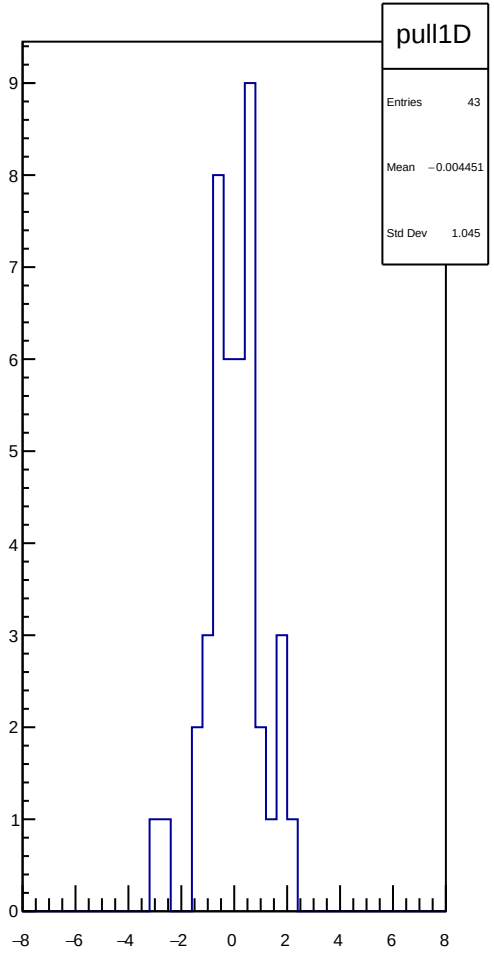
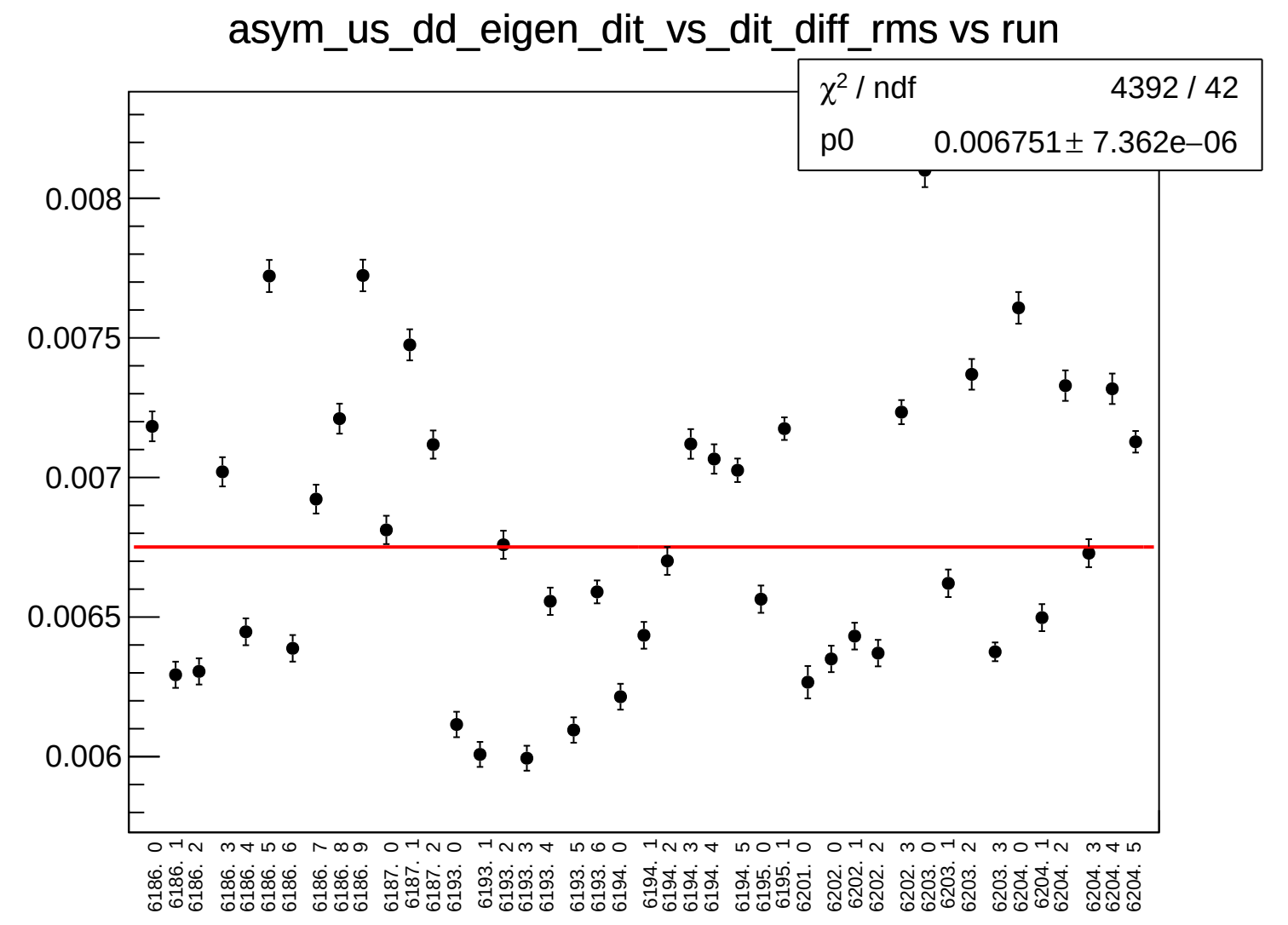
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

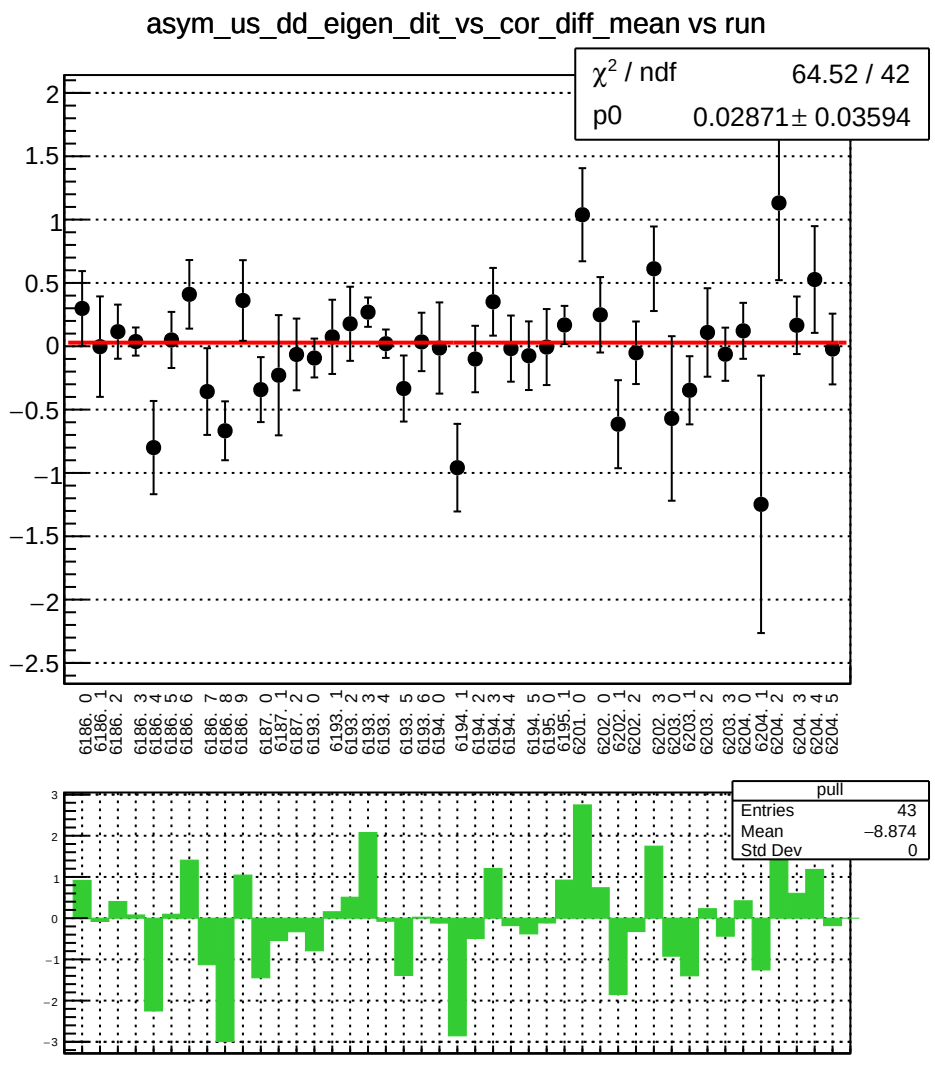

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 47.56 / 42
p0 −0.02072 ± 0.0704
pull
Entries 43
Mean −39.15
Std Dev 0
pull1D
Entries 43
Mean −0.01928
Std Dev 1.051

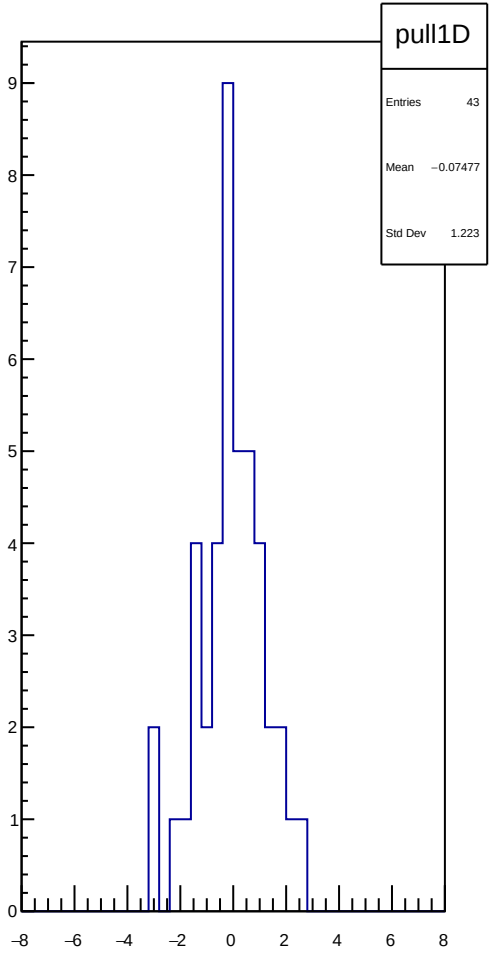

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.416e+04 / 42
p0 44.83 ± 0.04978
110
100
90
80
70
60
50
40
30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

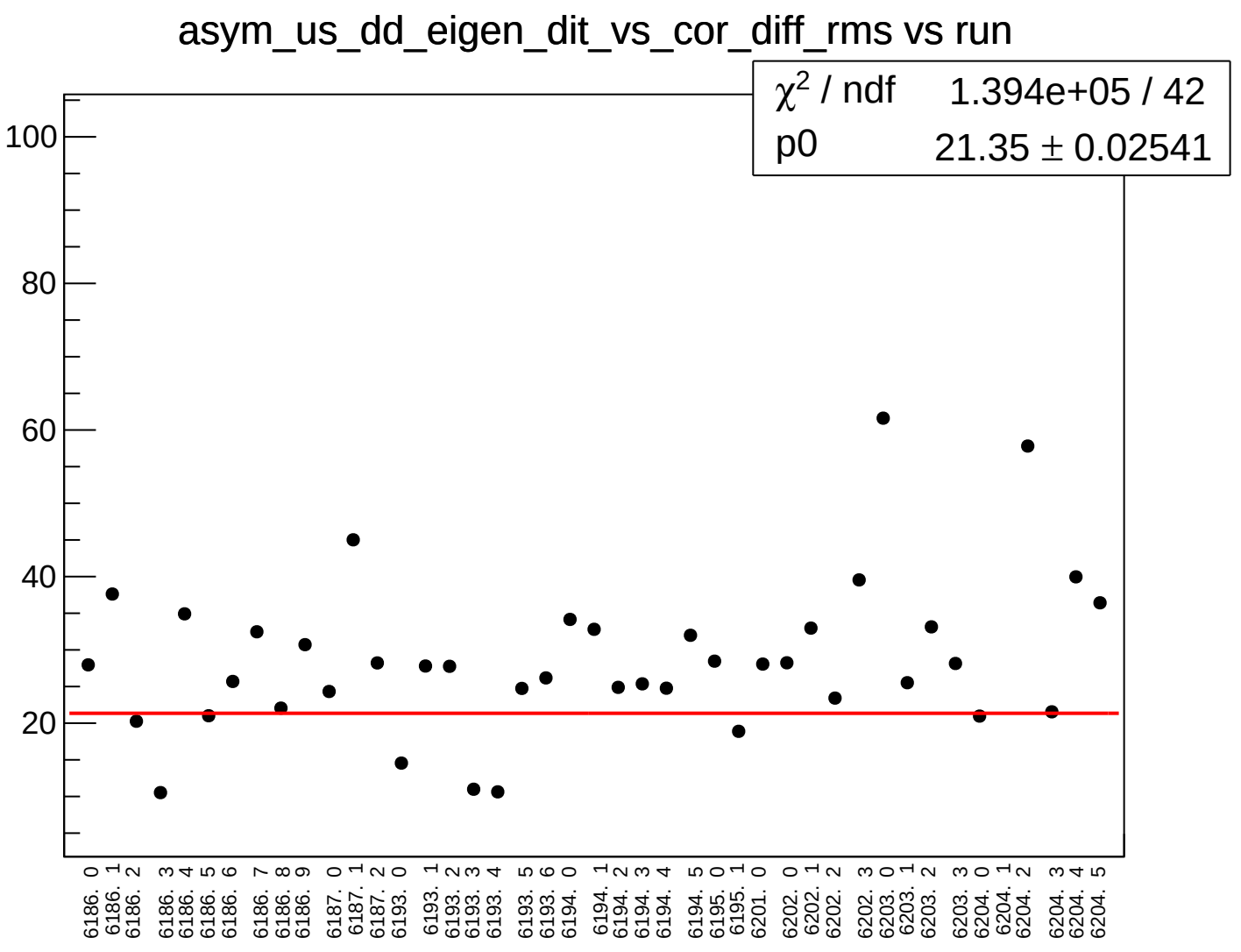

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 46.95 / 42
p0 2.908e−06 ± 1.041e−05
pull
Entries 43
Mean −341.4
Std Dev 0

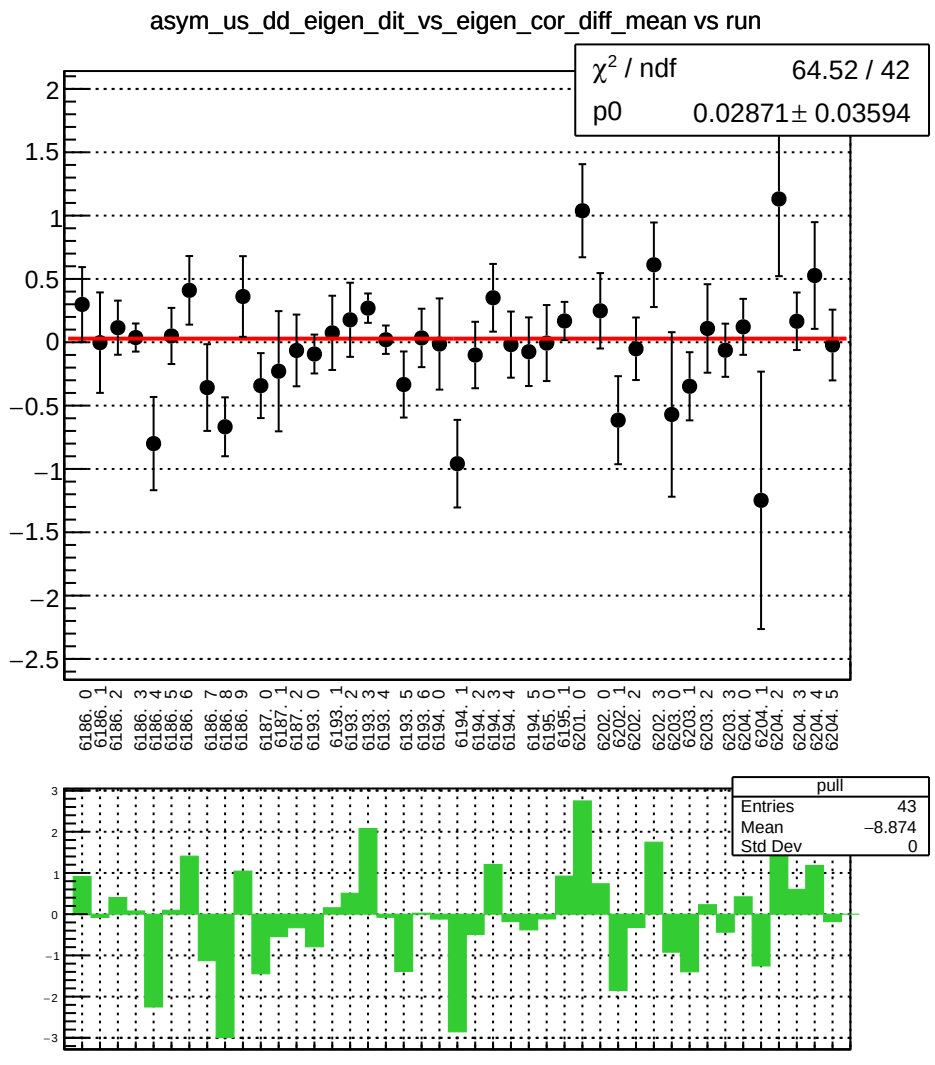

pull1D
Entries 43
Mean −0.004451
Std Dev 1.045

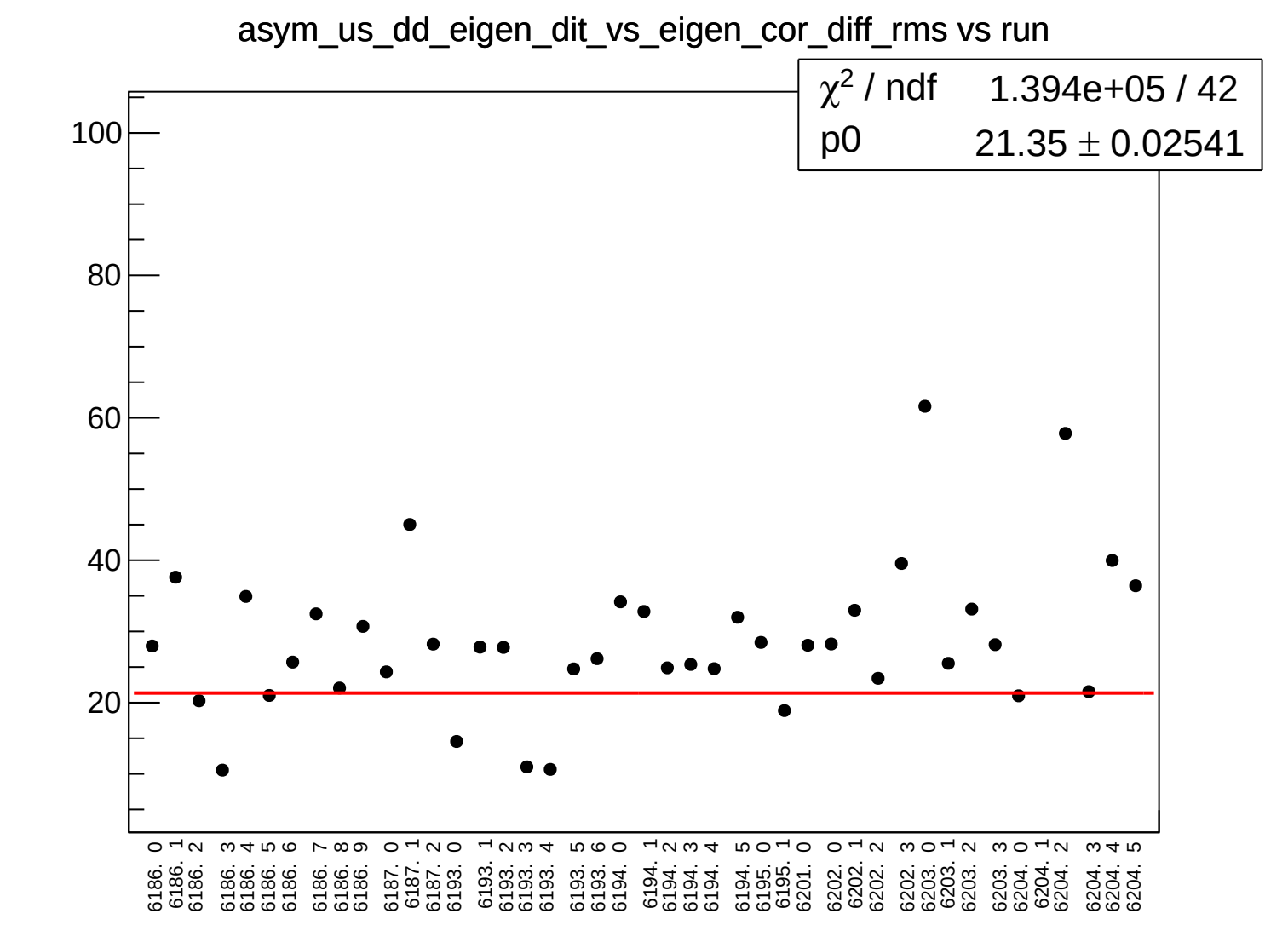

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4392 / 42
p0 0.006751 ± 7.362e−06
0.008
0.0075
0.007
0.0065
0.006
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

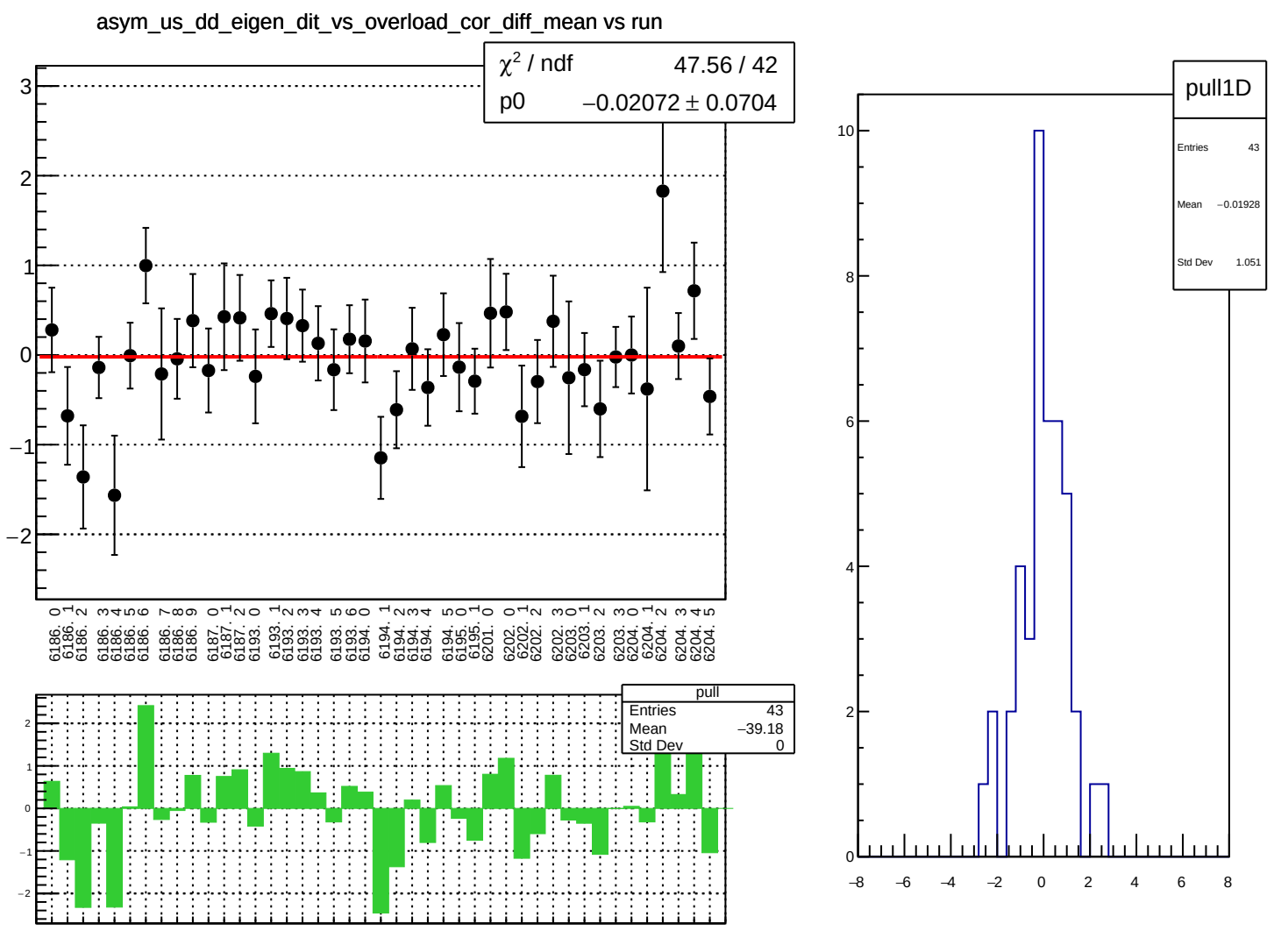

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.52 / 42
p0 0.02871± 0.03594
pull
Entries 43
Mean −8.874
Std Dev 0

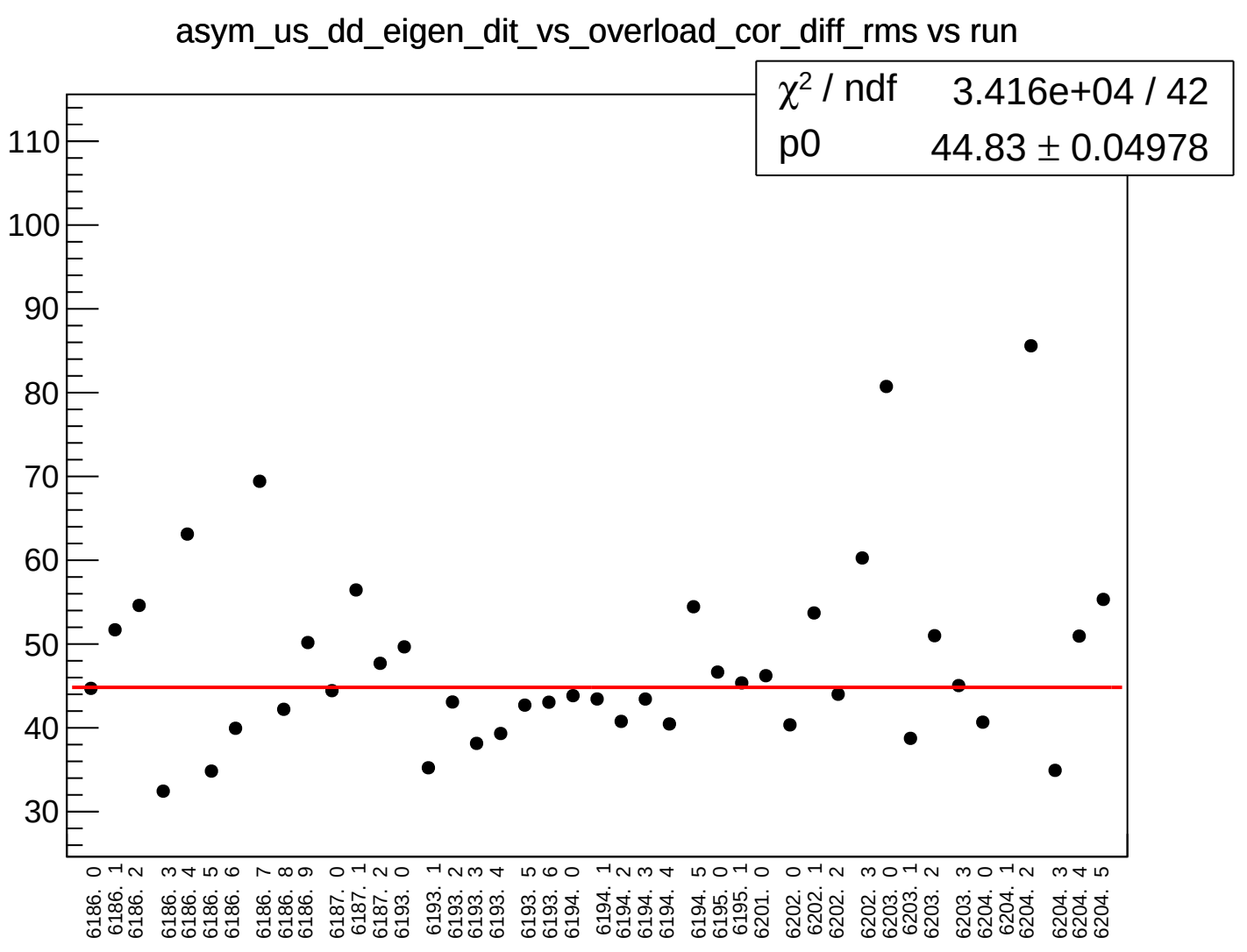

pull1D
Entries 43
Mean −0.07477
Std Dev 1.223

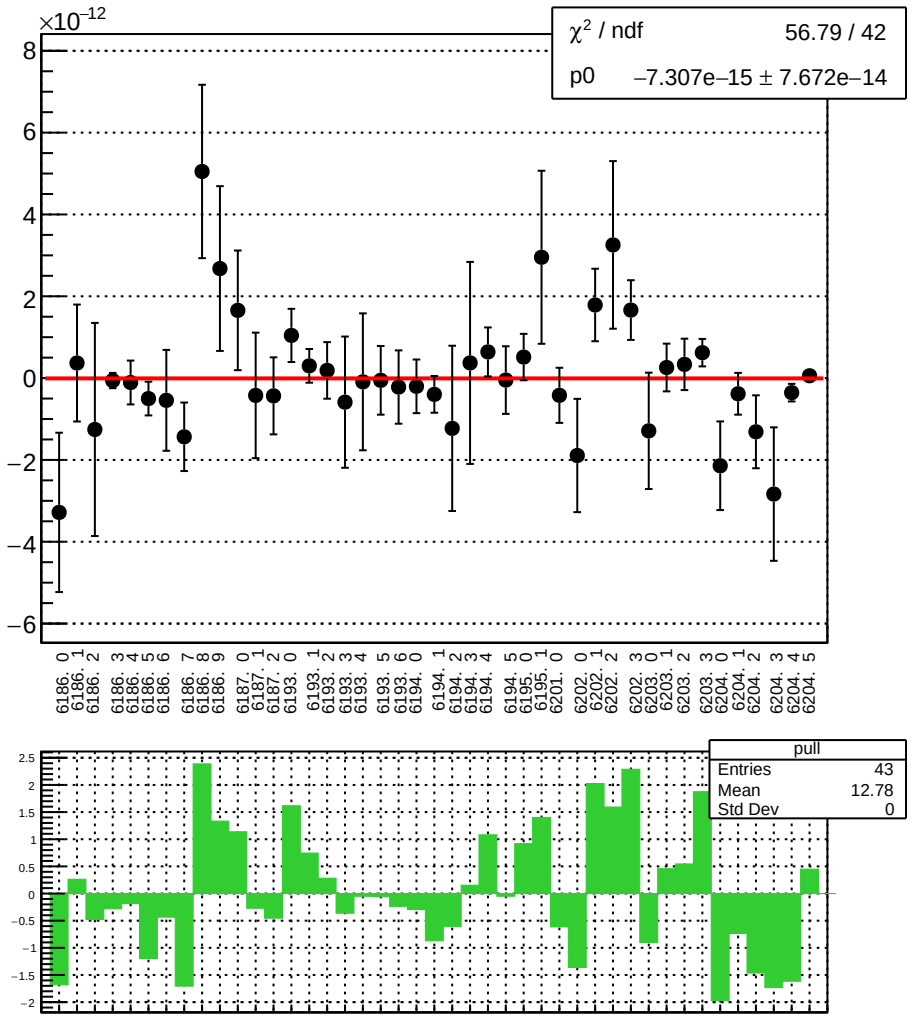

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.394e+05 / 42
p0 21.35 ± 0.02541
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

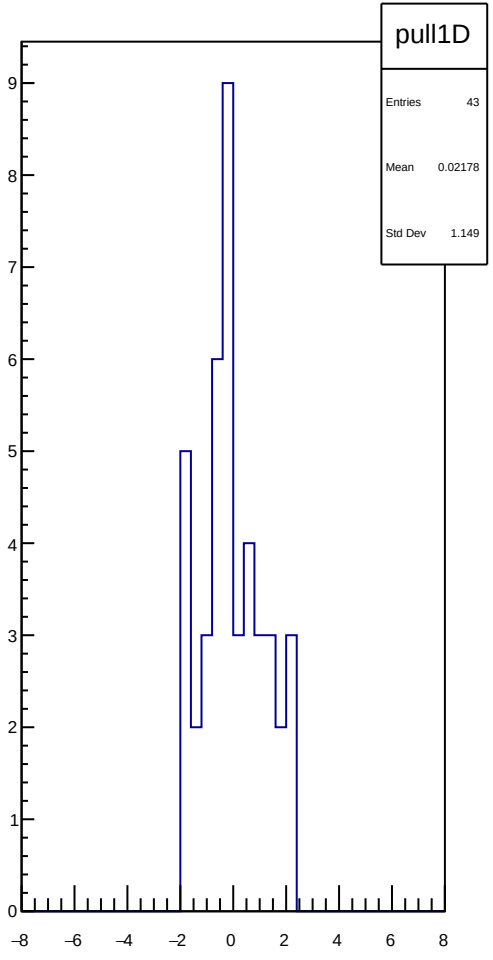

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.52 / 42
p0 0.02871± 0.03594
pull
Entries 43
Mean −8.874
Std Dev 0
pull1D
Entries 43
Mean −0.07477
Std Dev 1.223

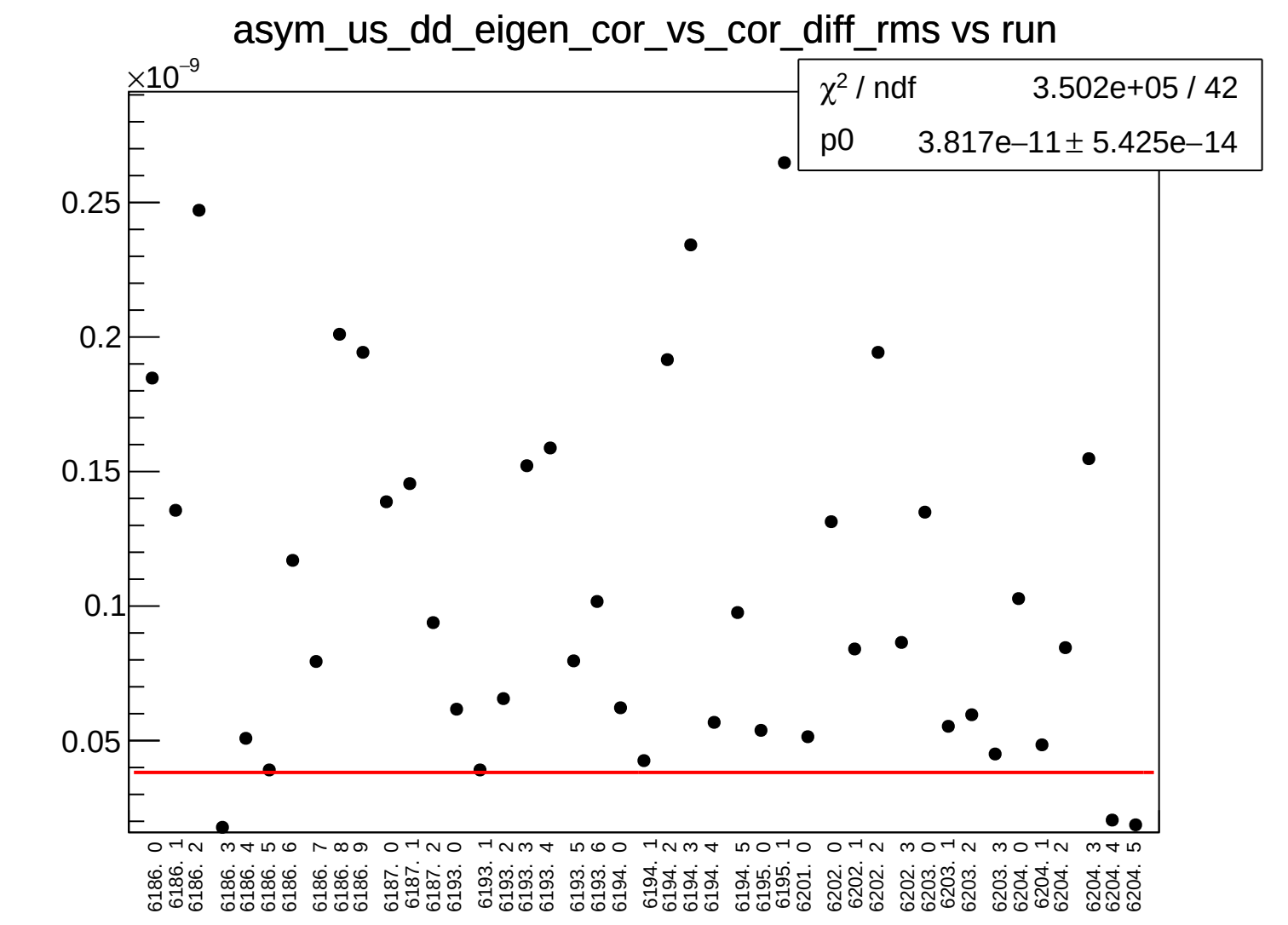

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.394e+05 / 42
p0 21.35 ± 0.02541
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

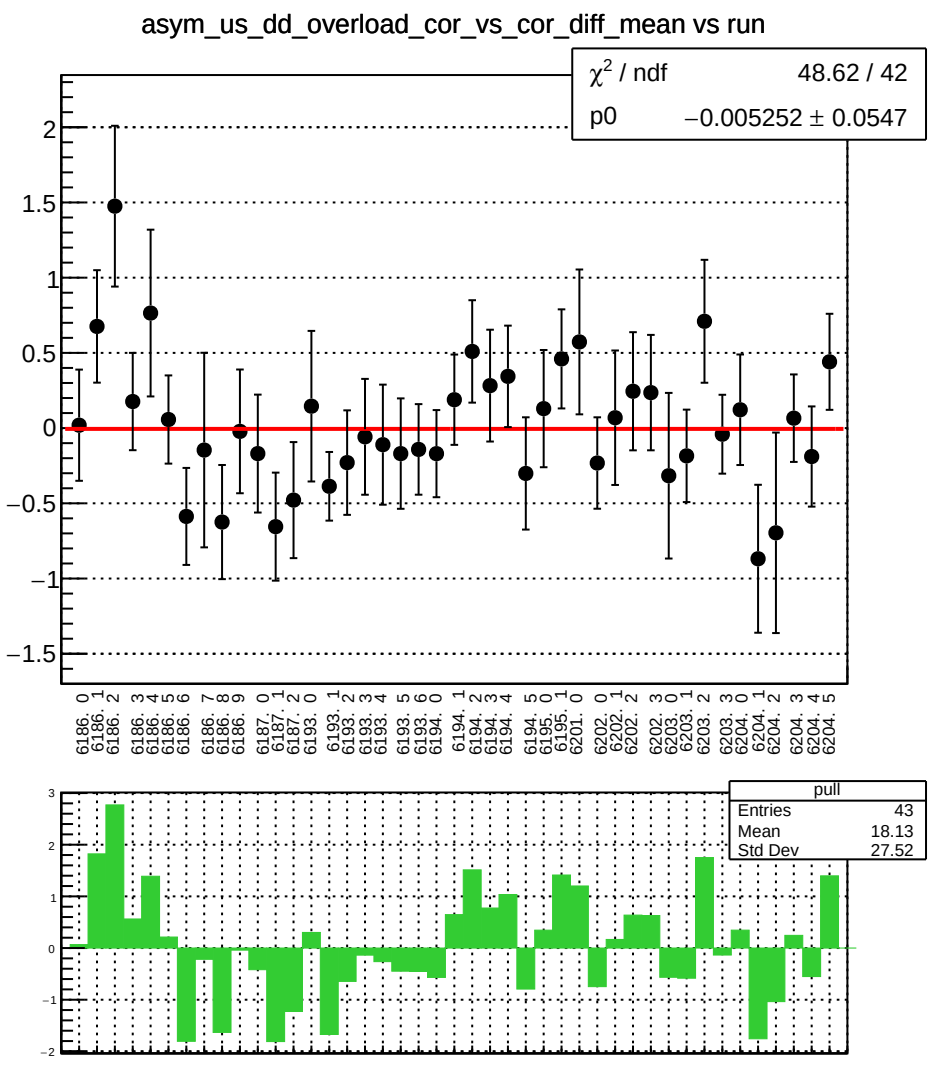

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 47.56 / 42
p0 −0.02072 ± 0.0704
3
2
1
0
−1
−2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −39.18
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01928
Std Dev 1.051
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

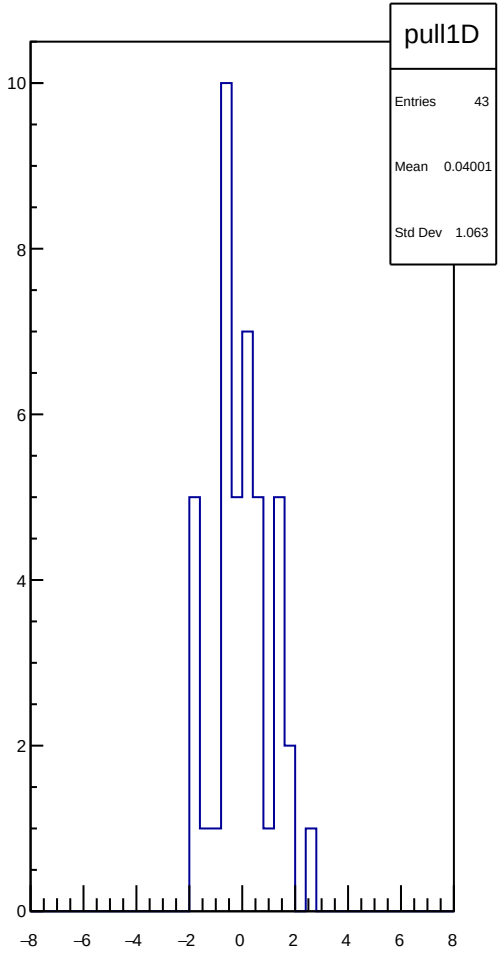

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.416e+04 / 42
p0 44.83 ± 0.04978
110
100
90
80
70
60
50
40
30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

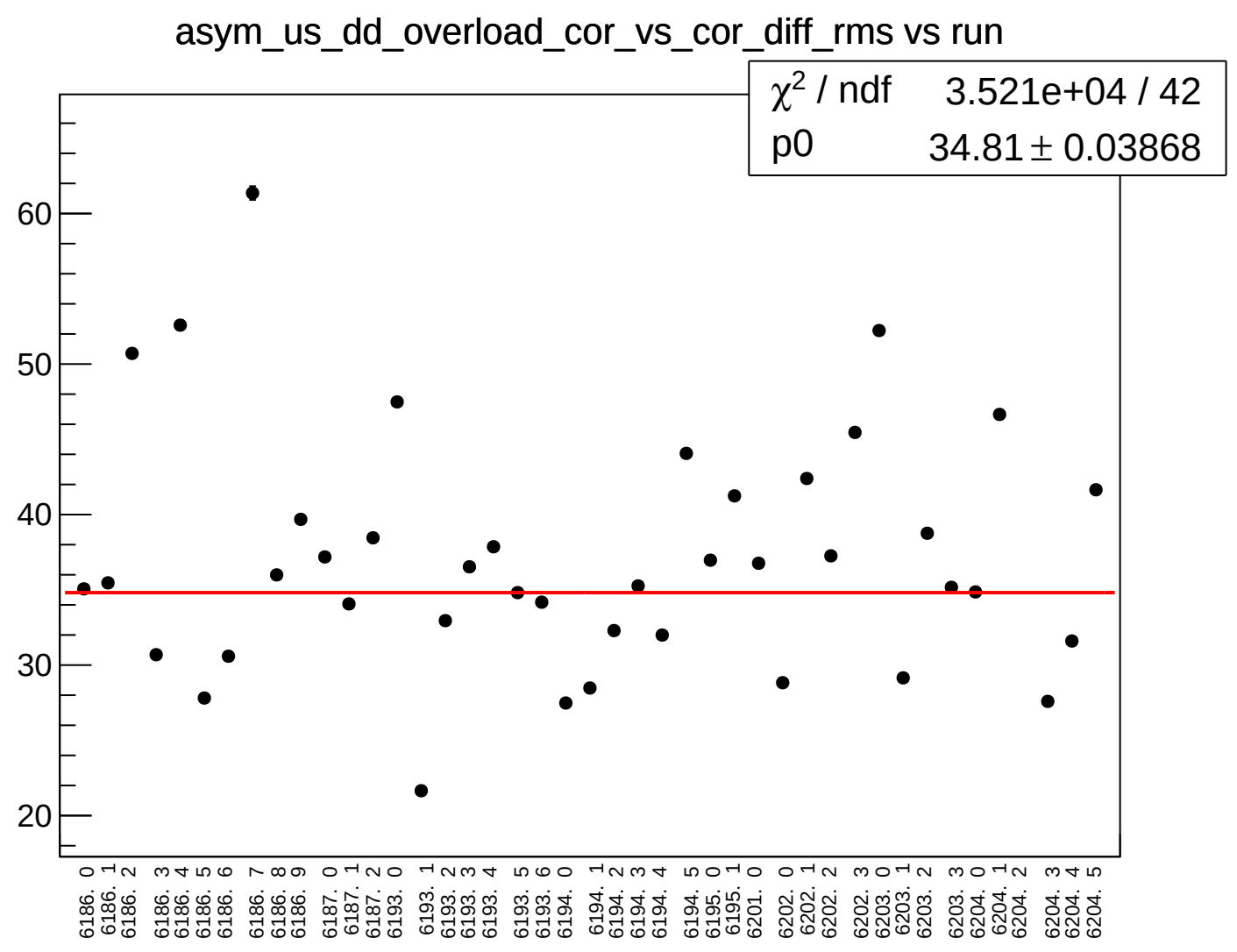

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 56.79 / 42
p0 −7.307e−15 ± 7.672e−14
pull
Entries 43
Mean 12.78
Std Dev 0

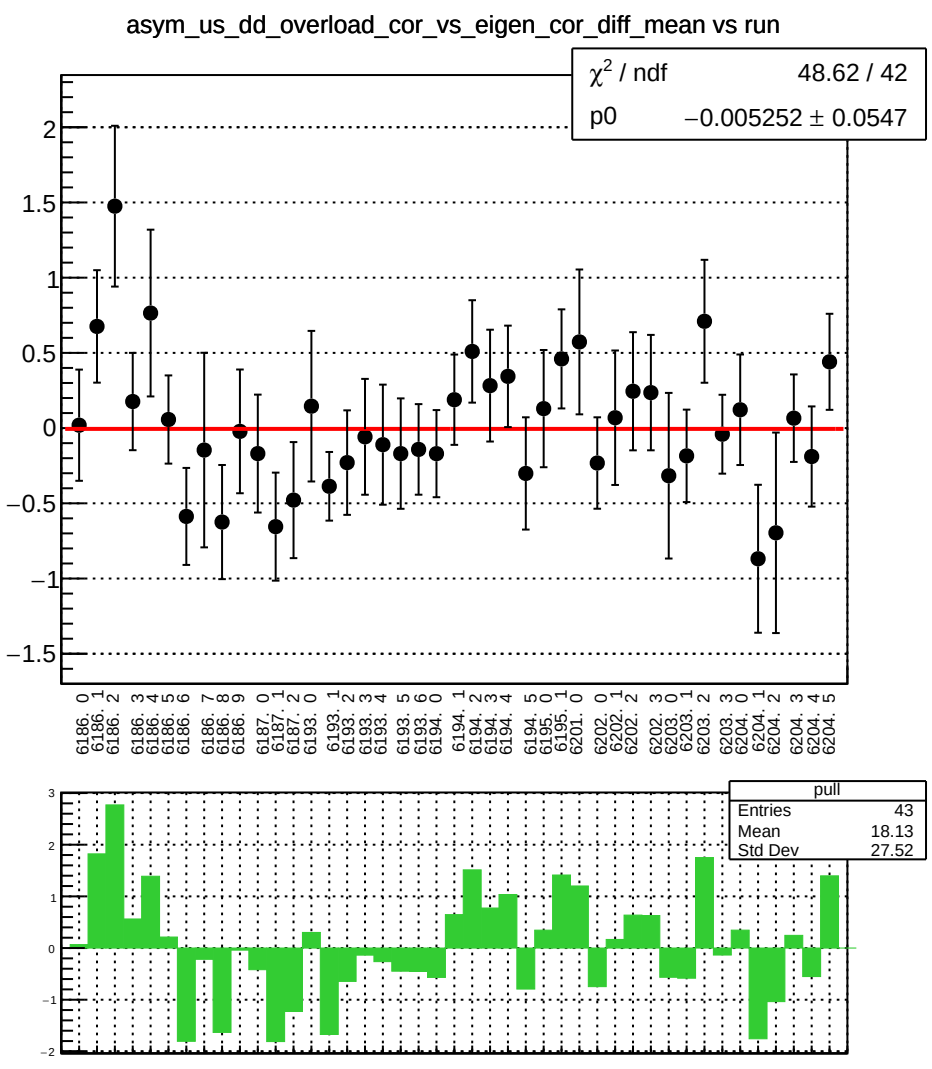

pull1D
Entries 43
Mean 0.02178
Std Dev 1.149

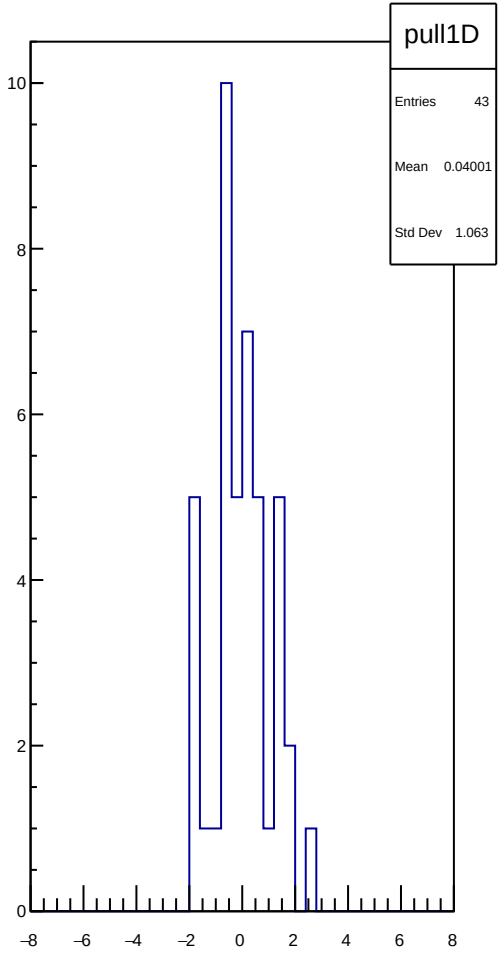

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.502e+05 / 42
p0 3.817e−11 ± 5.425e−14
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

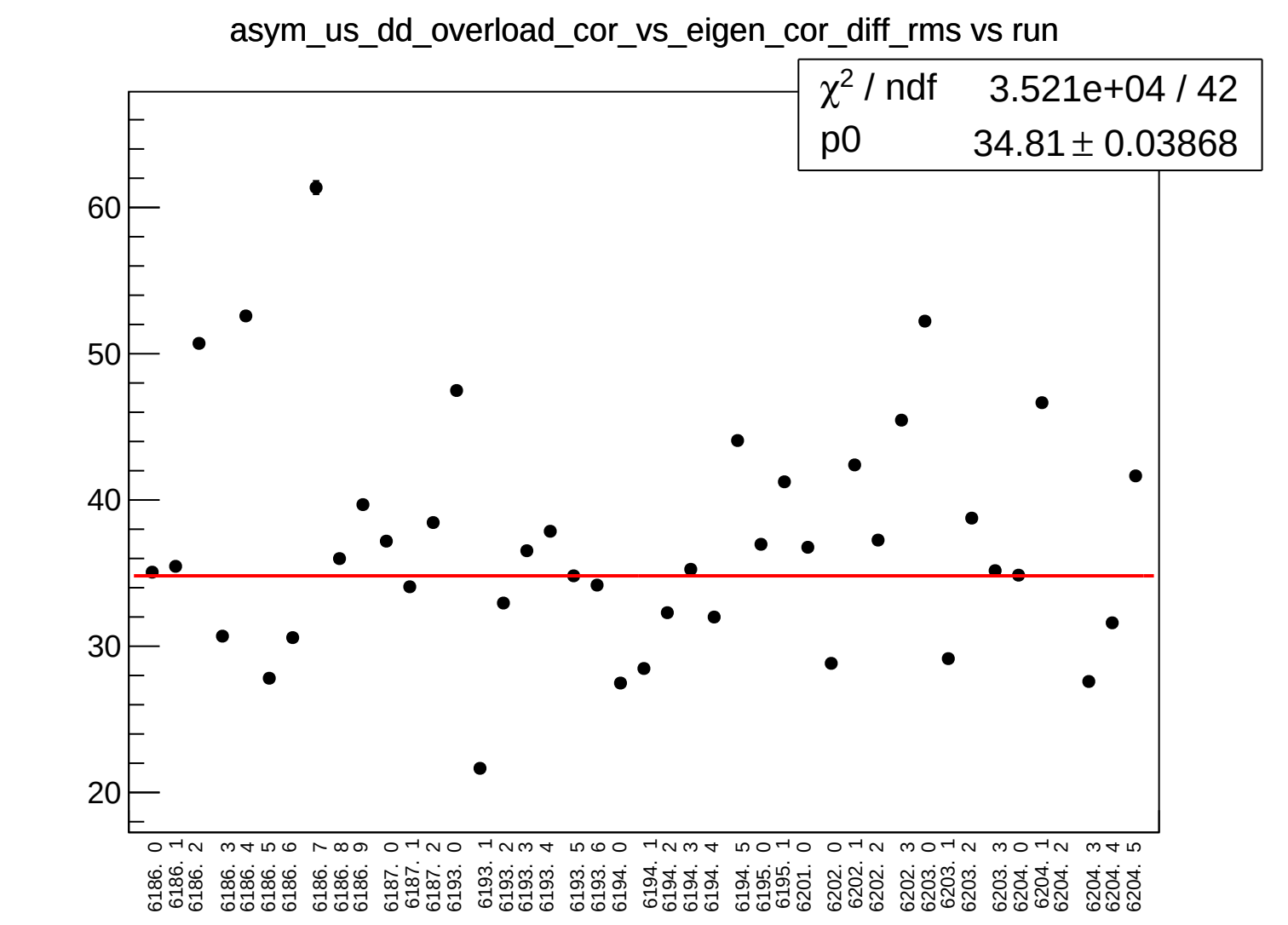

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 48.62 / 42
p0 −0.005252 ± 0.0547
pull
Entries 43
Mean 18.13
Std Dev 27.52

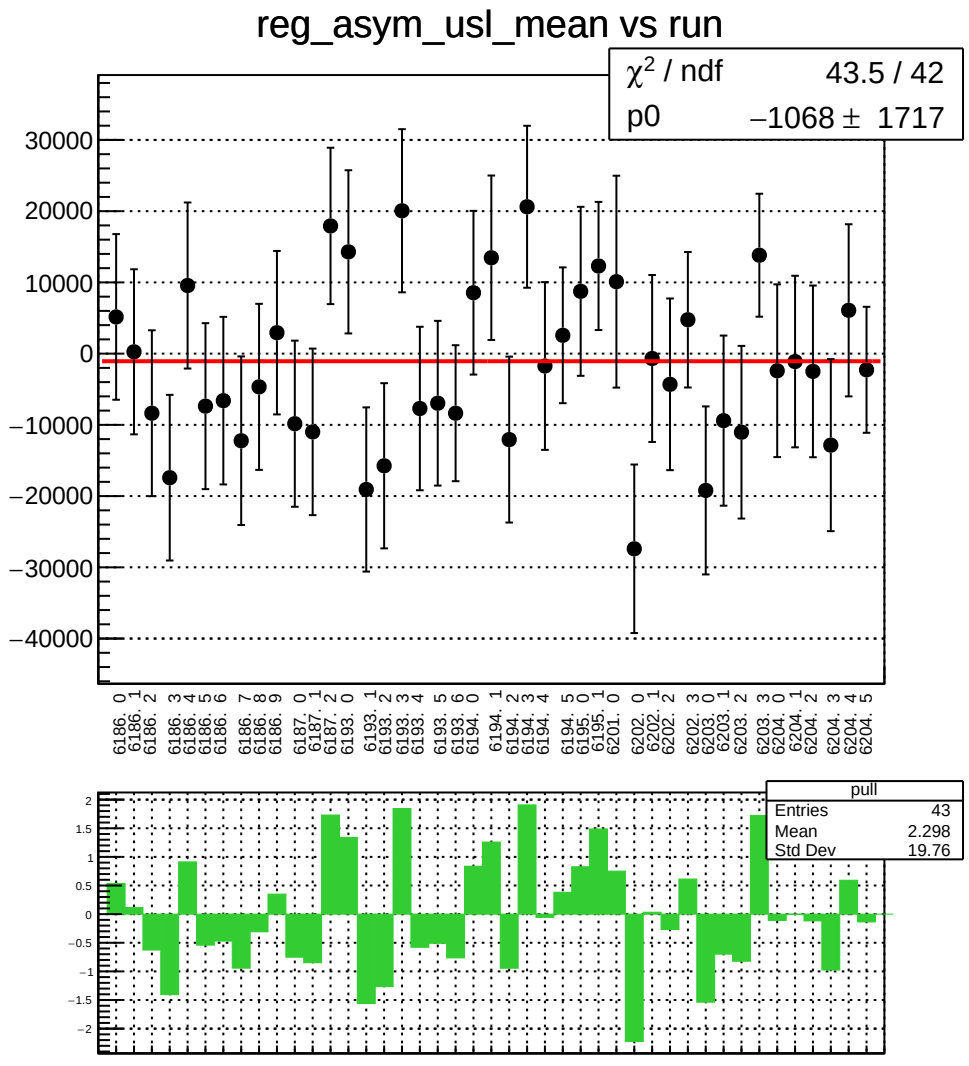

pull1D
Entries 43
Mean 0.04001
Std Dev 1.063

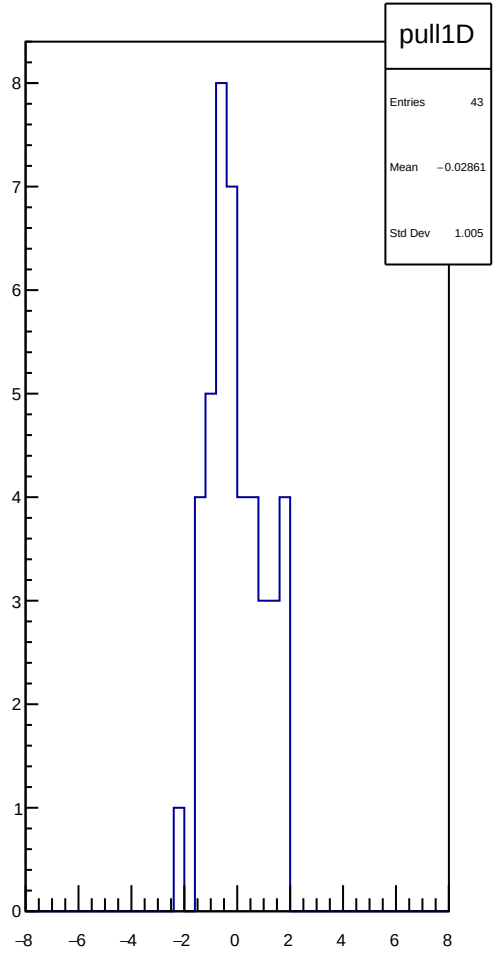

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.521e+04 / 42
p0 34.81 ± 0.03868
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

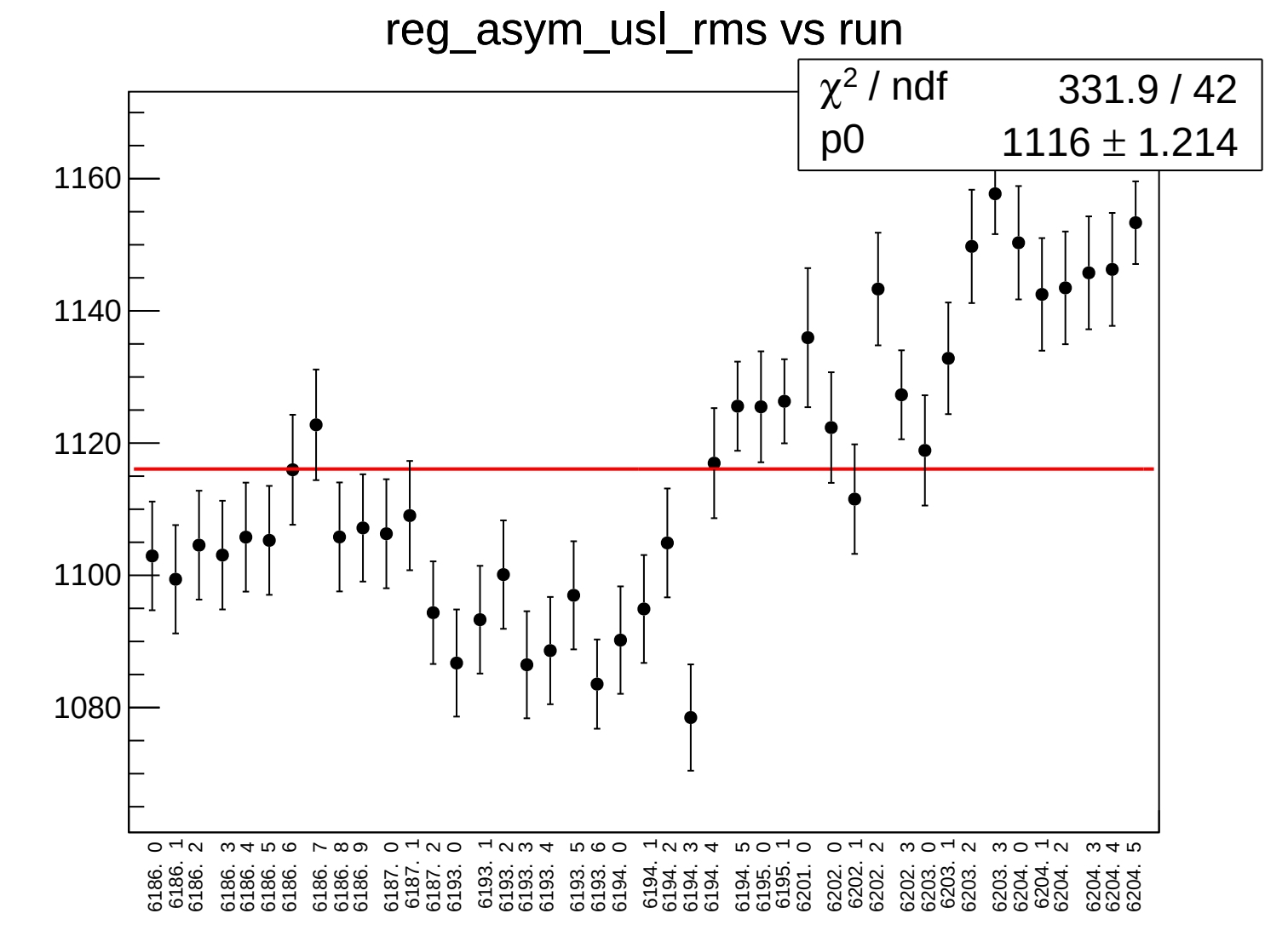

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.62 / 42
p0 −0.005252 ± 0.0547
pull
Entries 43
Mean 18.13
Std Dev 27.52

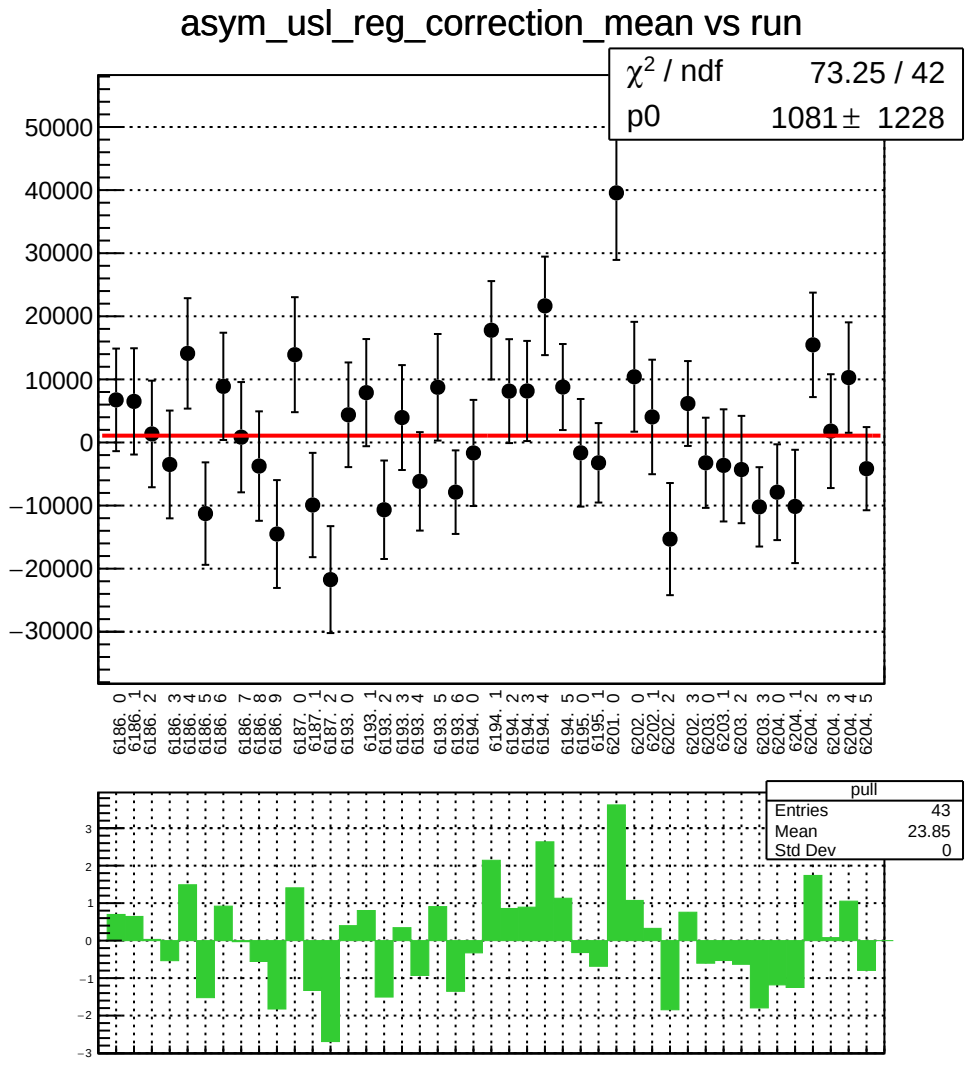

pull1D
Entries 43
Mean 0.04001
Std Dev 1.063


asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.521e+04 / 42
p0 34.81 ± 0.03868
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_usl_mean vs run
χ² / ndf 43.5 / 42
p0 −1068 ± 1717
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2.298
Std Dev 19.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.02861
Std Dev 1.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usl_rms vs run
χ² / ndf 331.9 / 42
p0 1116 ± 1.214
1160
1140
1120
1100
1080
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_usl_reg_correction_mean vs run
χ² / ndf 73.25 / 42
p0 1081 ± 1228
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
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6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 23.85
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.03996
Std Dev 1.305
8
7
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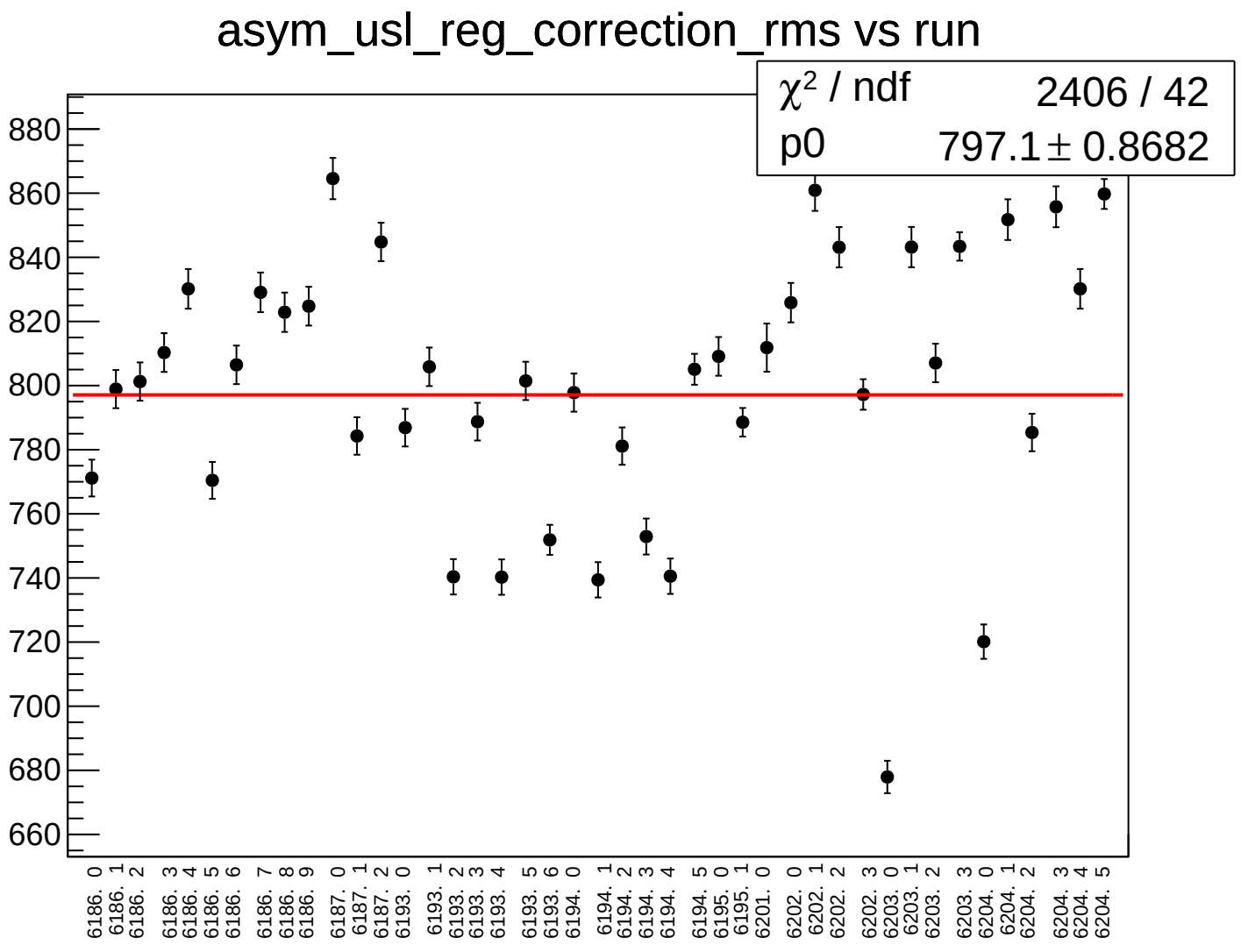
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_reg_correction_rms vs run
χ² / ndf 2406 / 42
p0 797.1 ± 0.8682
880
860
840
820
800
780
760
740
720
700
680
660
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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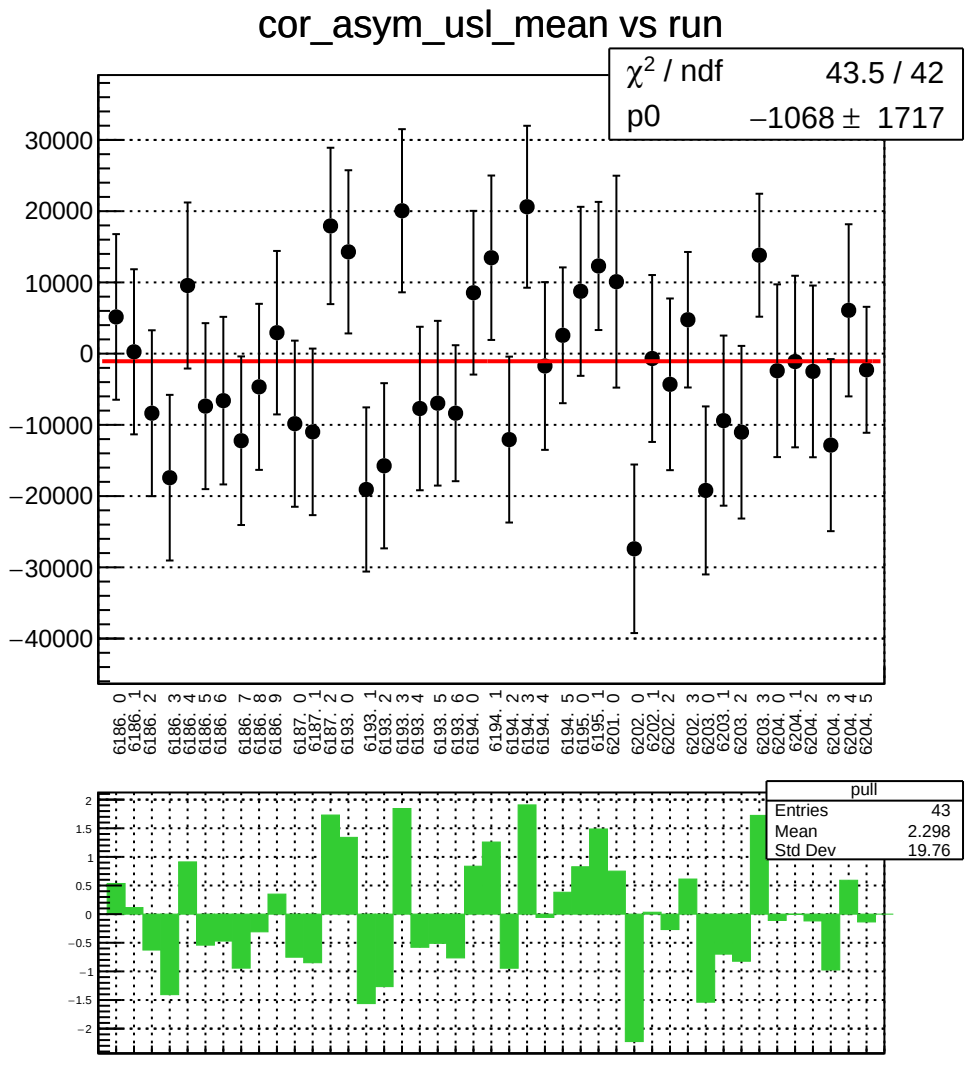
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_usl_mean vs run
χ² / ndf 43.5 / 42
p0 −1068 ± 1717
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2.298
Std Dev 19.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02861
Std Dev 1.005
8
7
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5
4
3
2
1
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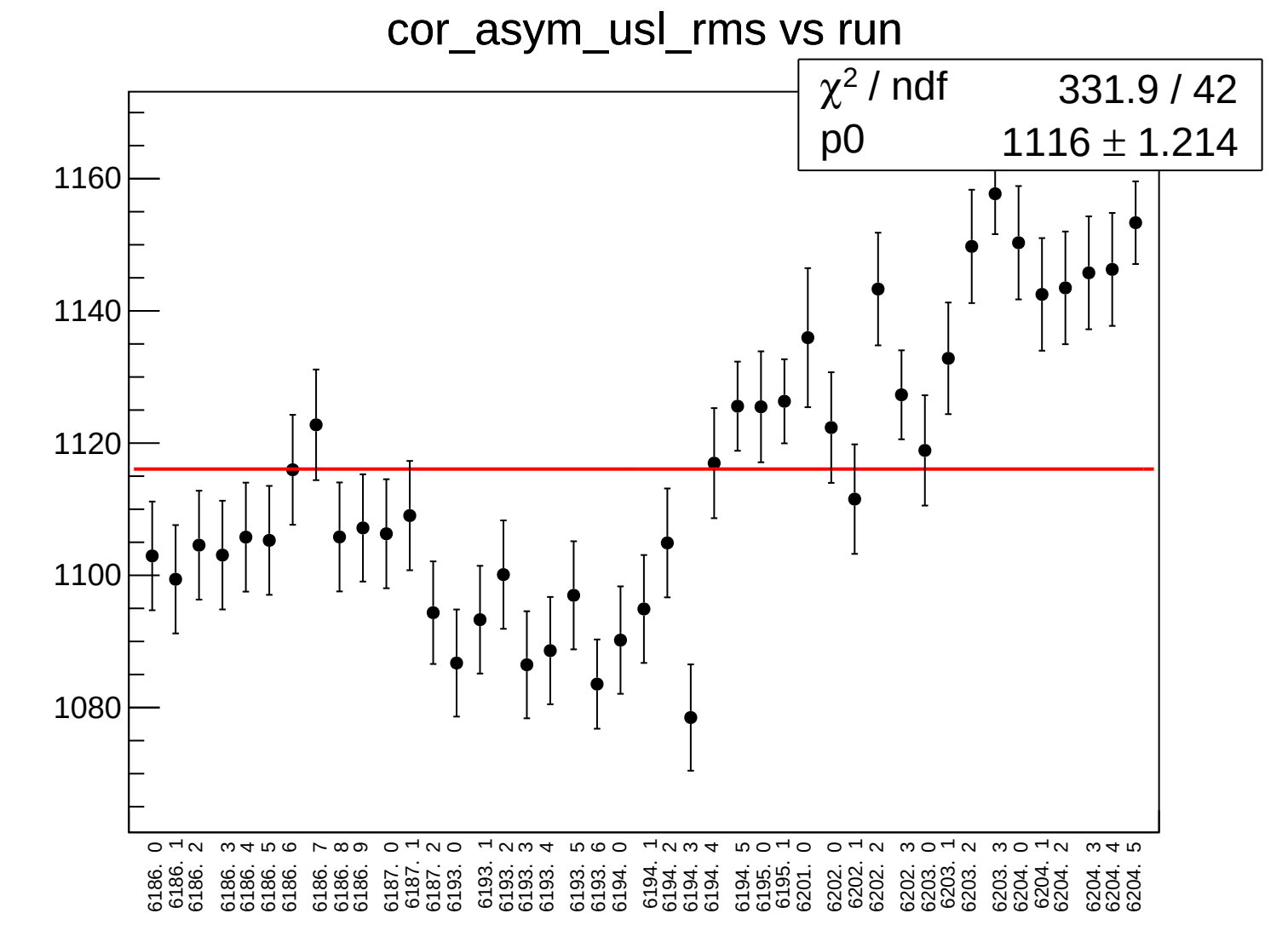
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_rms vs run
χ² / ndf 331.9 / 42
p0 1116 ± 1.214
1160
1140
1120
1100
1080
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
6204. 0
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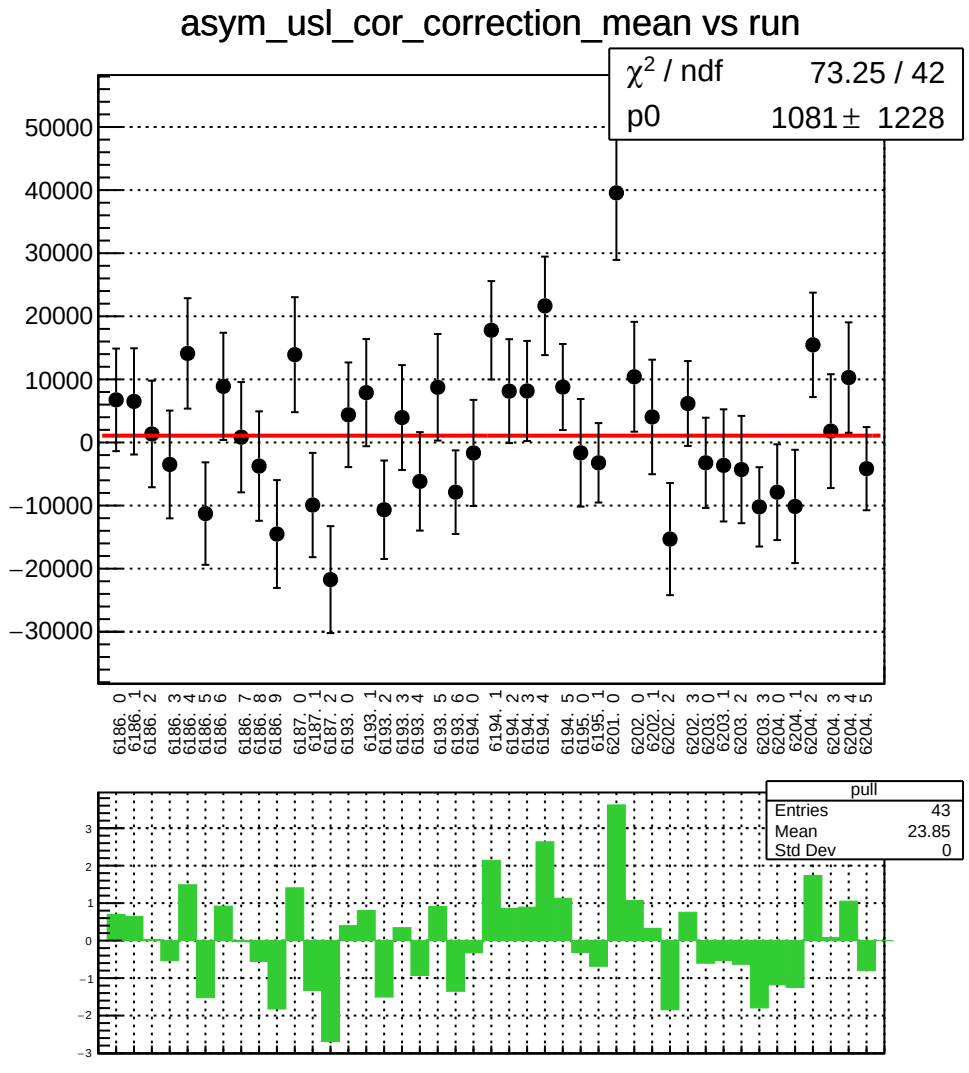
6204. 2
6204. 3
6204. 4
6204. 5


asym_usl_cor_correction_mean vs run
χ² / ndf 73.25 / 42
p0 1081 ± 1228
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 23.85
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.03996
Std Dev 1.305
8
7
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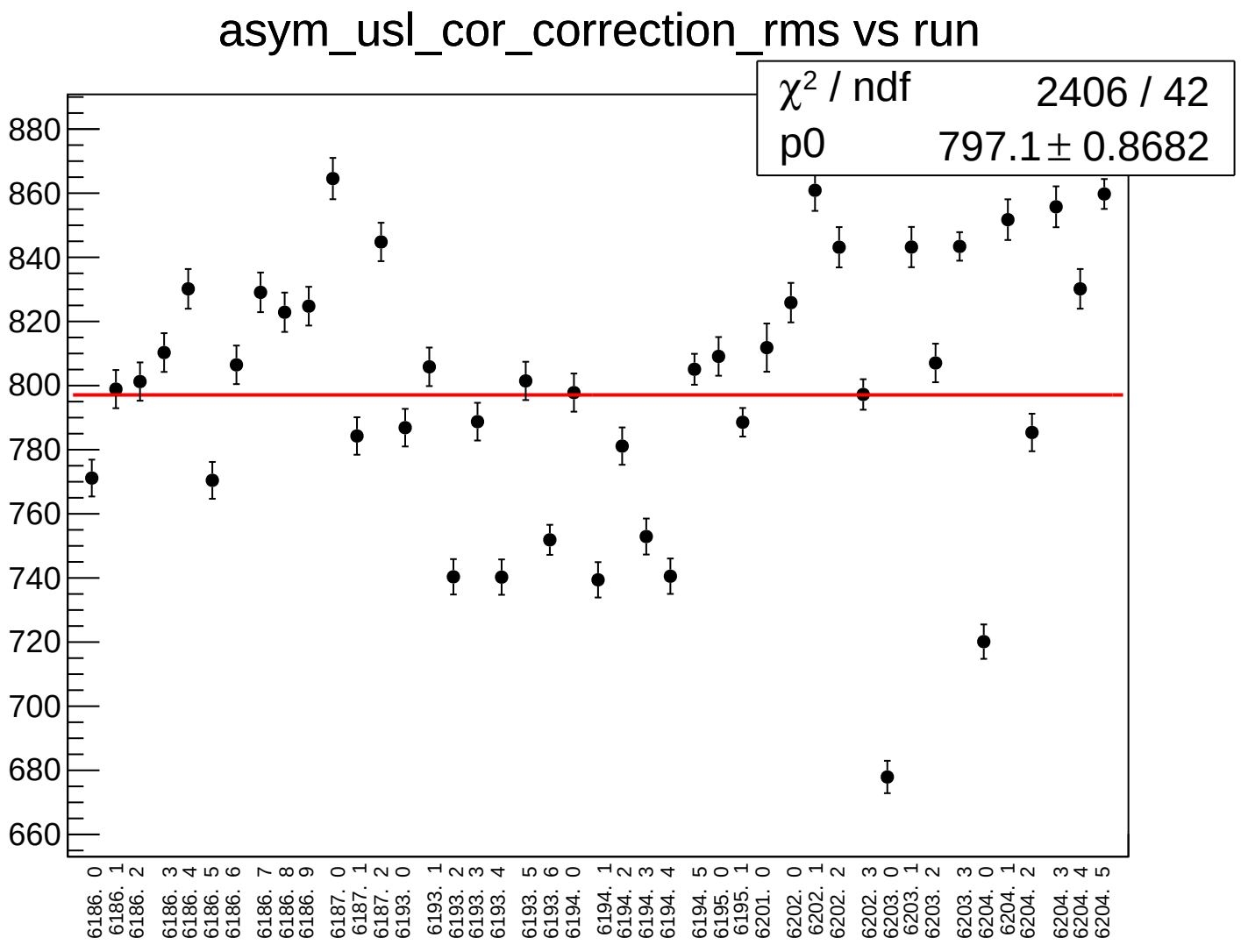
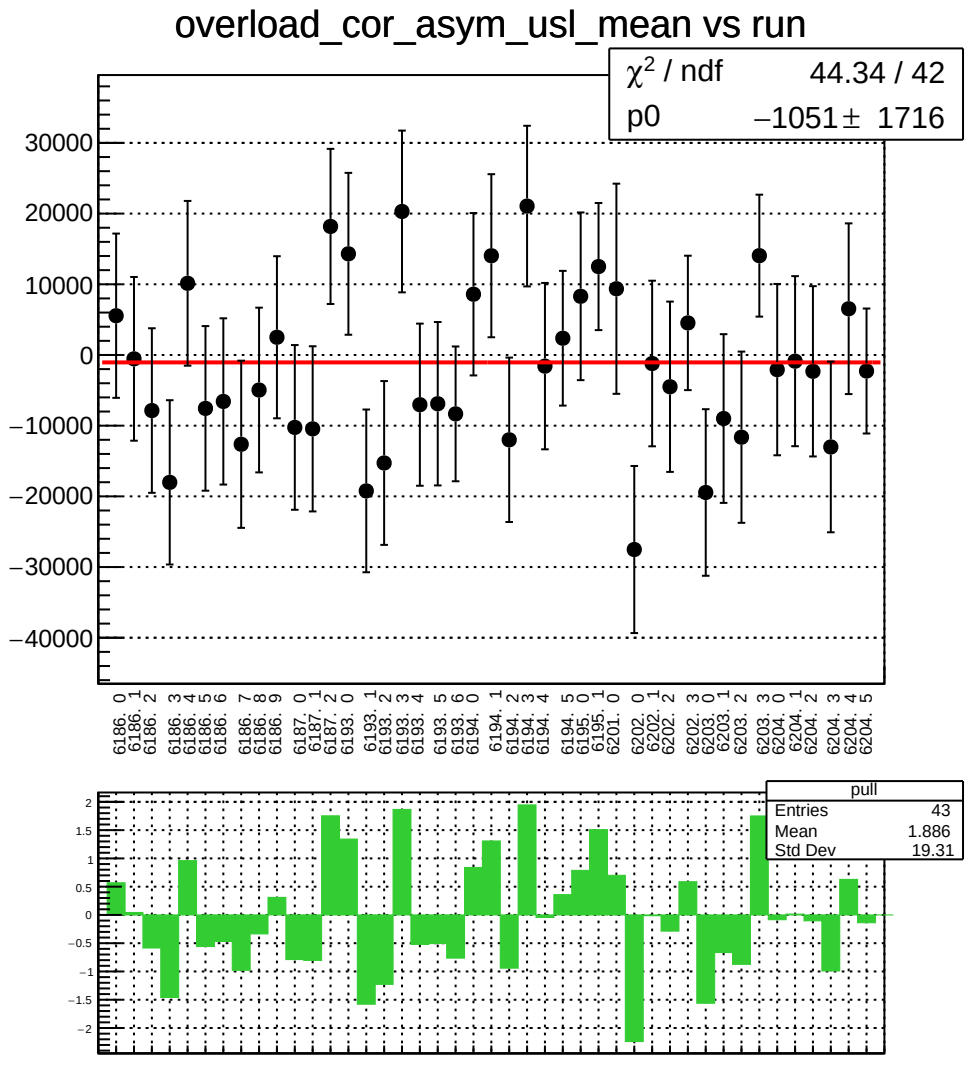
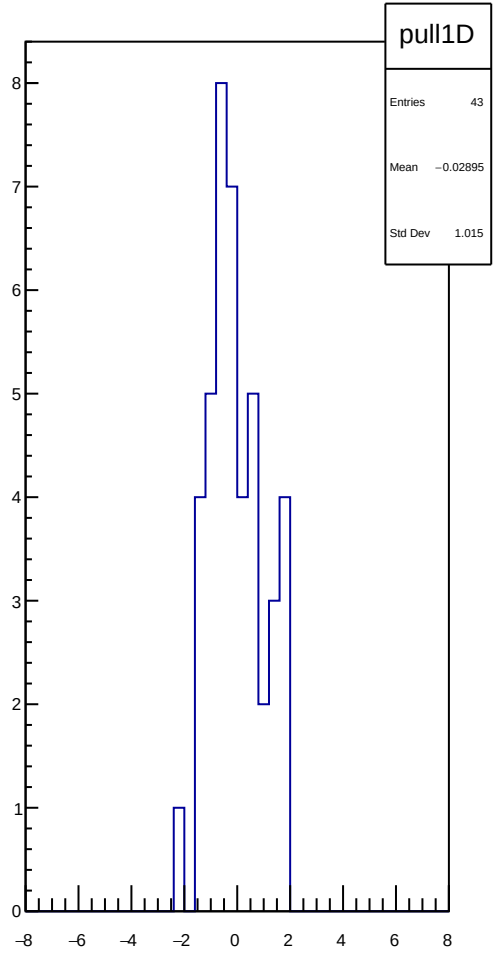
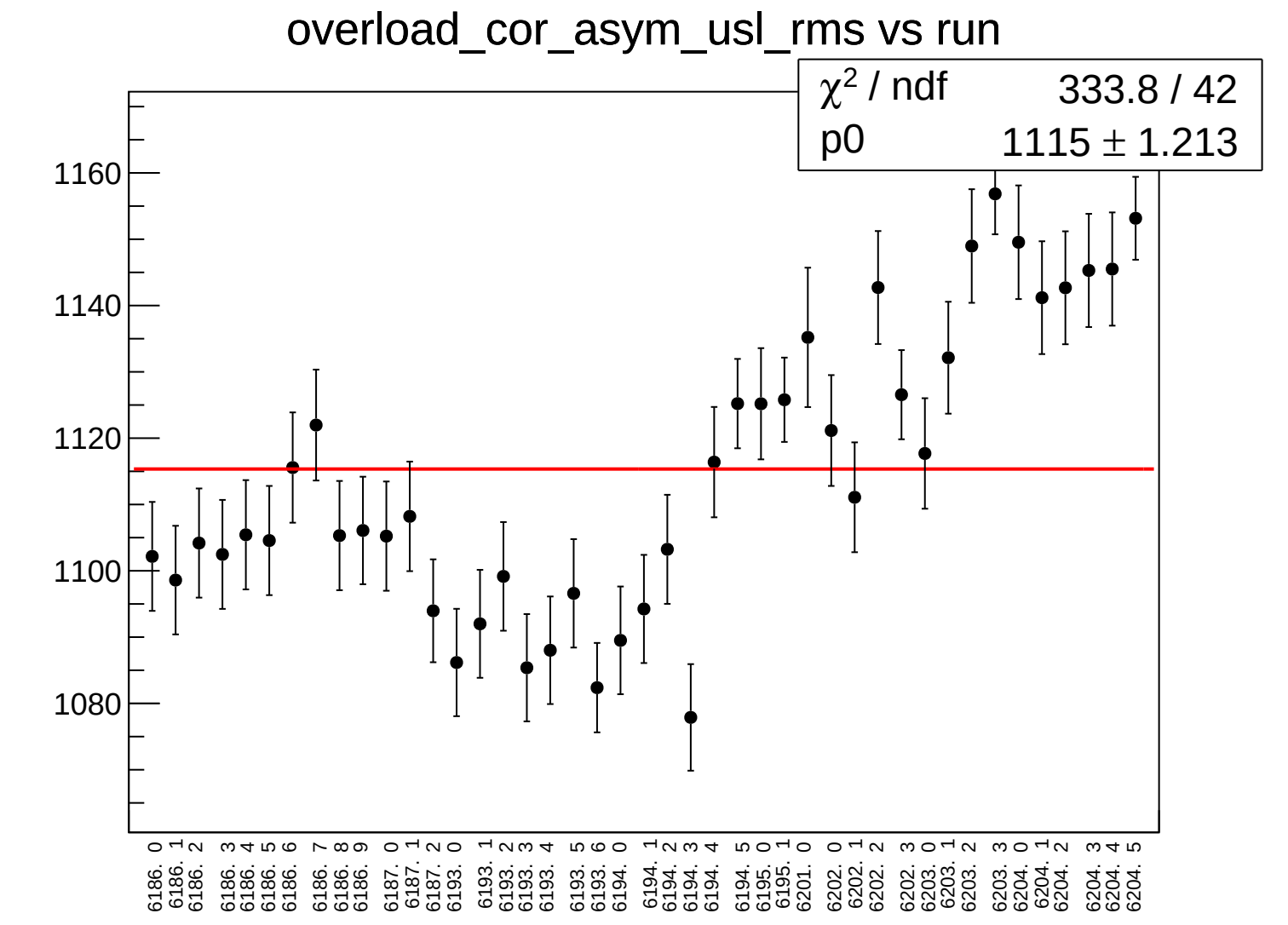
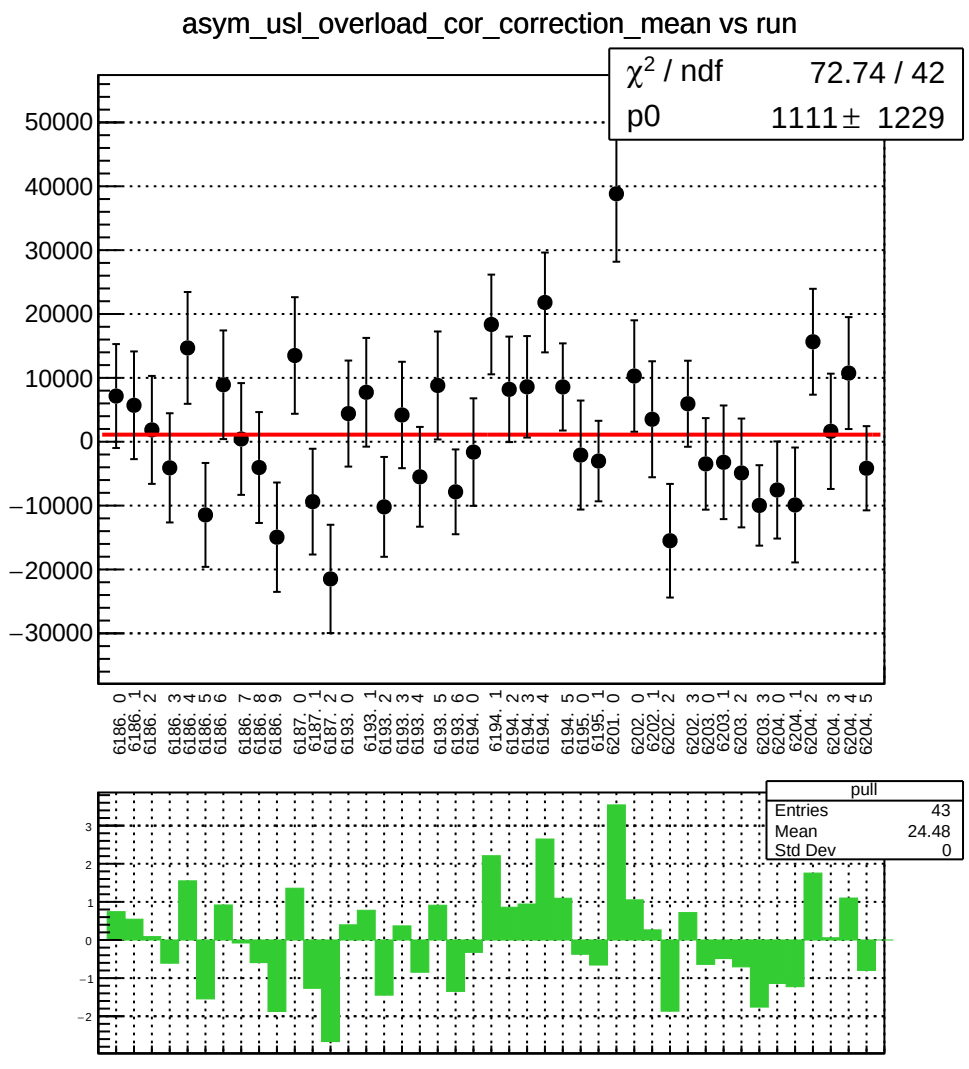
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

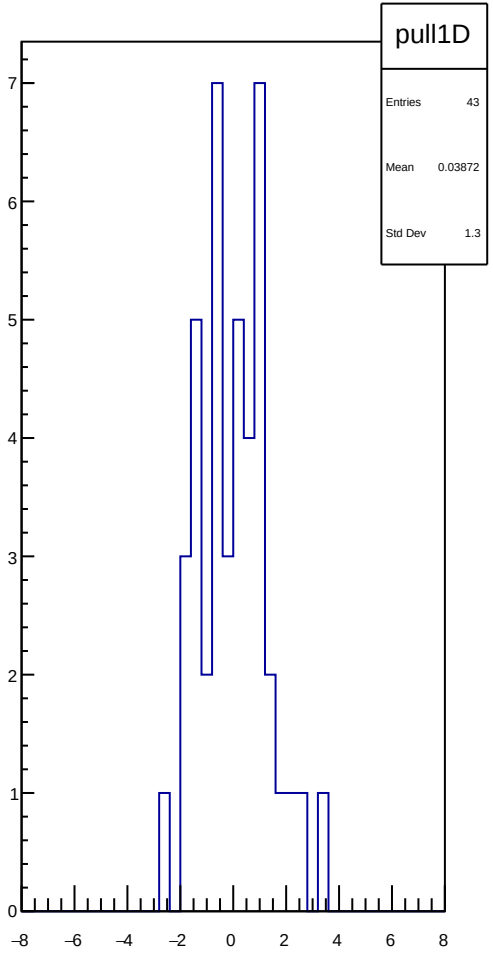

asym_usl_cor_correction_rms vs run
χ² / ndf 2406 / 42
p0 797.1 ± 0.8682
880
860
840
820
800
780
760
740
720
700
680
660
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

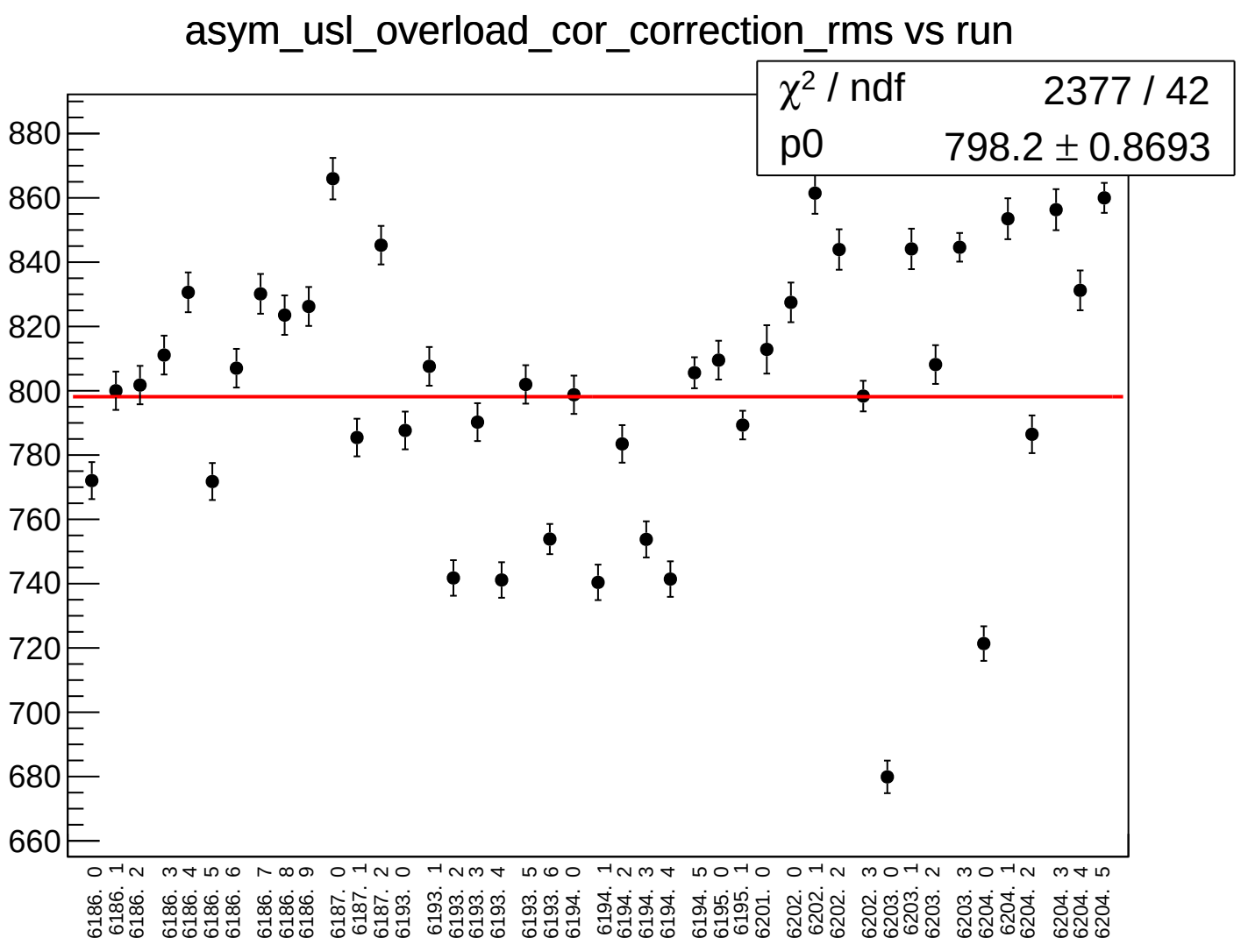

overload_cor_asym_usl_mean vs run
χ² / ndf 44.34 / 42
p0 −1051 ± 1716
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1.886
Std Dev 19.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

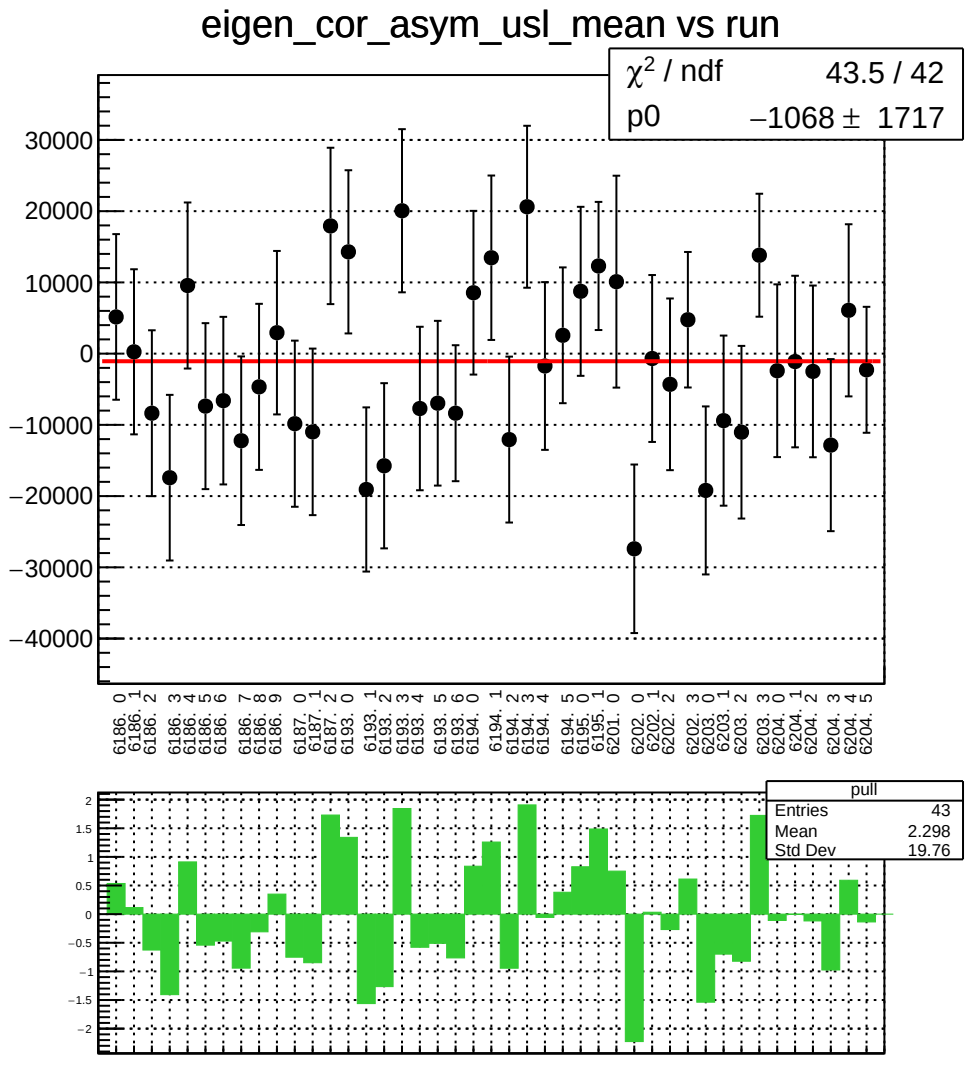

pull1D
Entries 43
Mean −0.02895
Std Dev 1.015
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

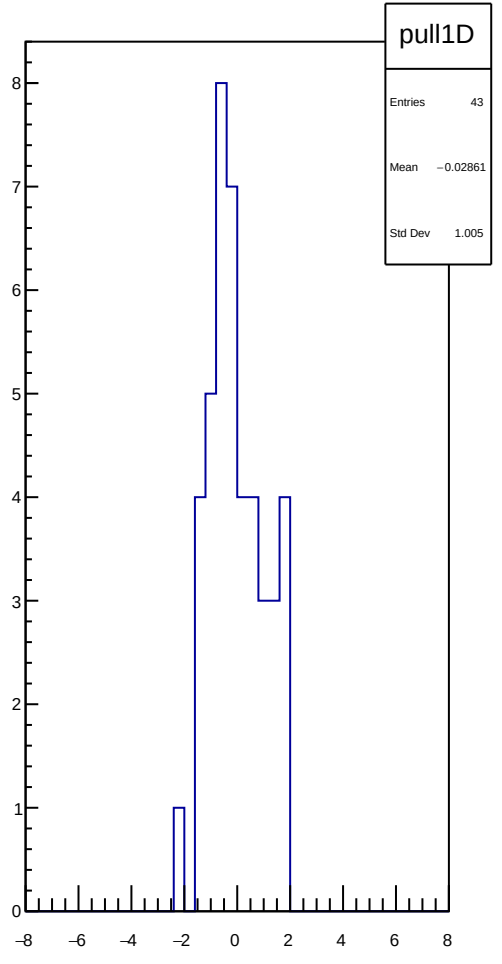

overload_cor_asym_usl_rms vs run
χ² / ndf 333.8 / 42
p0 1115 ± 1.213
1160
1140
1120
1100
1080
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

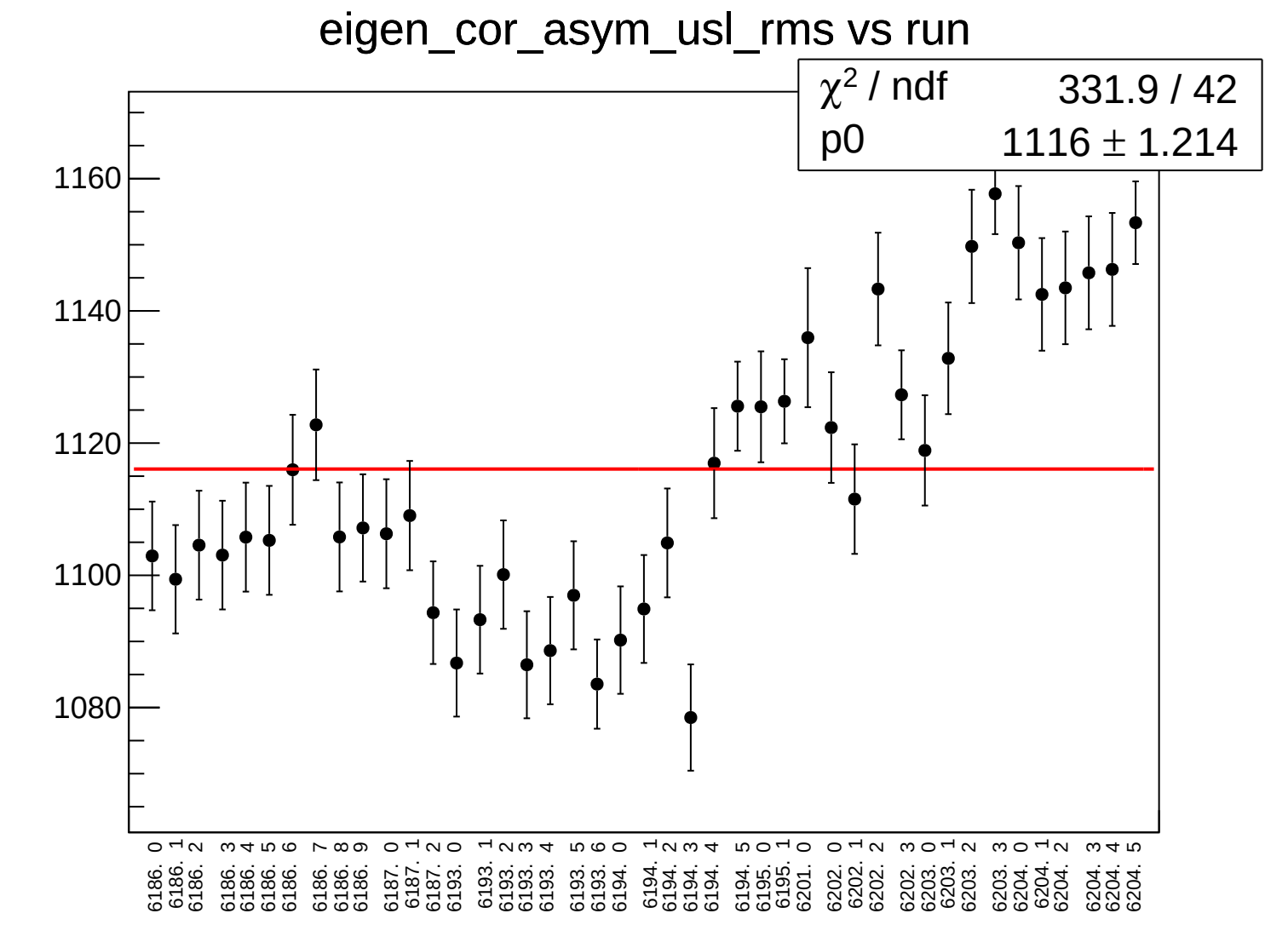

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 72.74 / 42
p0 1111 ± 1229
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 24.48
Std Dev 0
3
2
1
0
−1
−2

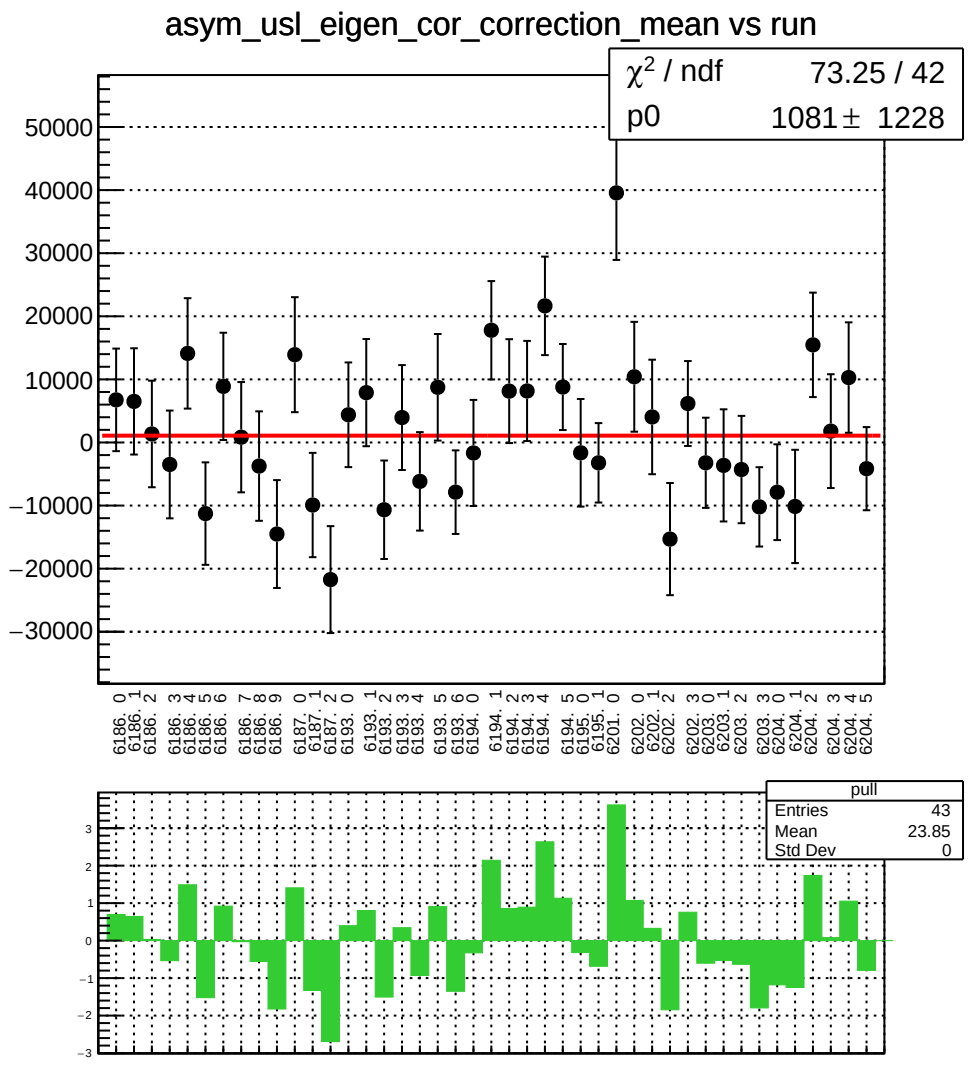

pull1D
Entries 43
Mean 0.03872
Std Dev 1.3
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

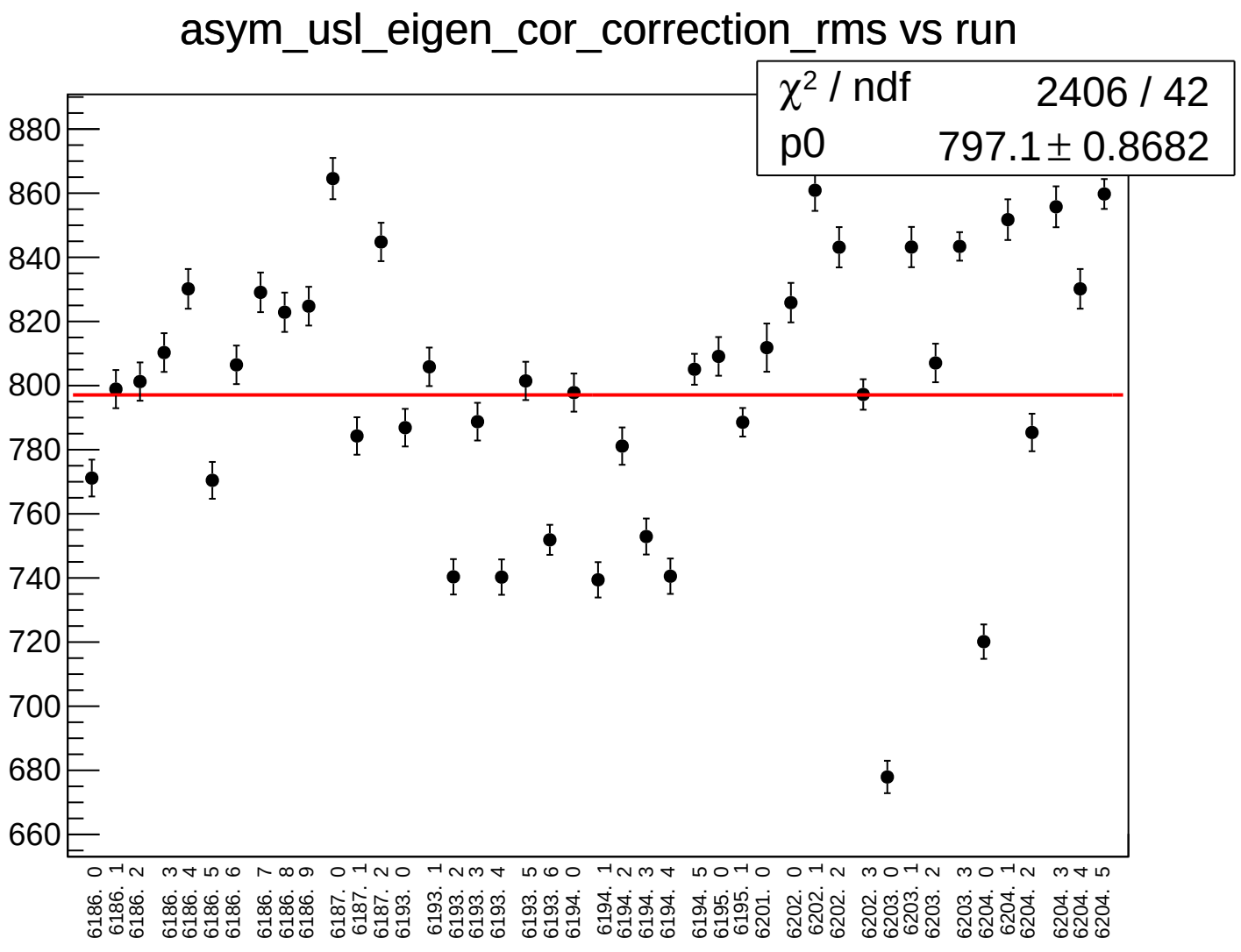

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 2377 / 42
p0 798.2 ± 0.8693
880
860
840
820
800
780
760
740
720
700
680
660
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_usl_mean vs run
χ² / ndf 43.5 / 42
p0 −1068 ± 1717
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2.298
Std Dev 19.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.02861
Std Dev 1.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_rms vs run
χ² / ndf 331.9 / 42
p0 1116 ± 1.214
1160
1140
1120
1100
1080
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 73.25 / 42
p0 1081 ± 1228
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 23.85
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.03996
Std Dev 1.305
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 2406 / 42
p0 797.1 ± 0.8682
880
860
840
820
800
780
760
740
720
700
680
660
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
6204. 0
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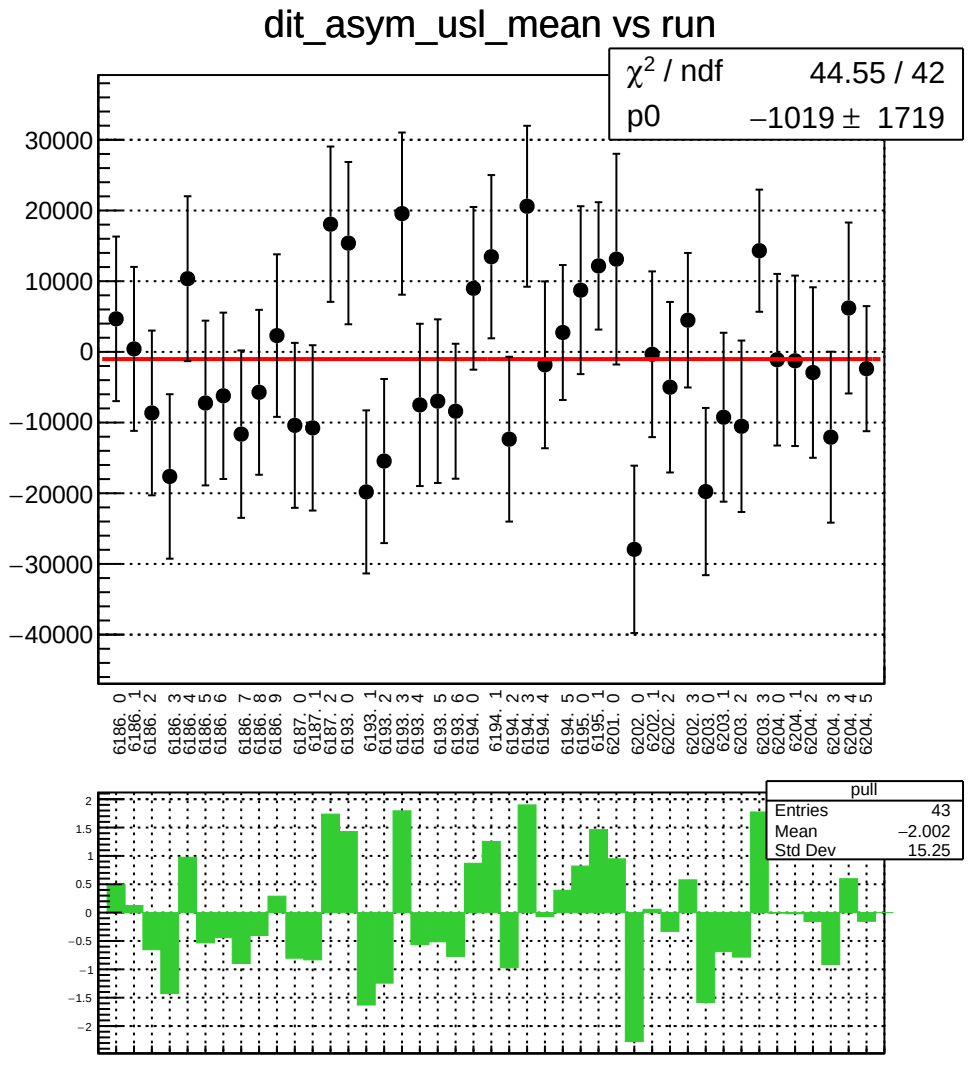
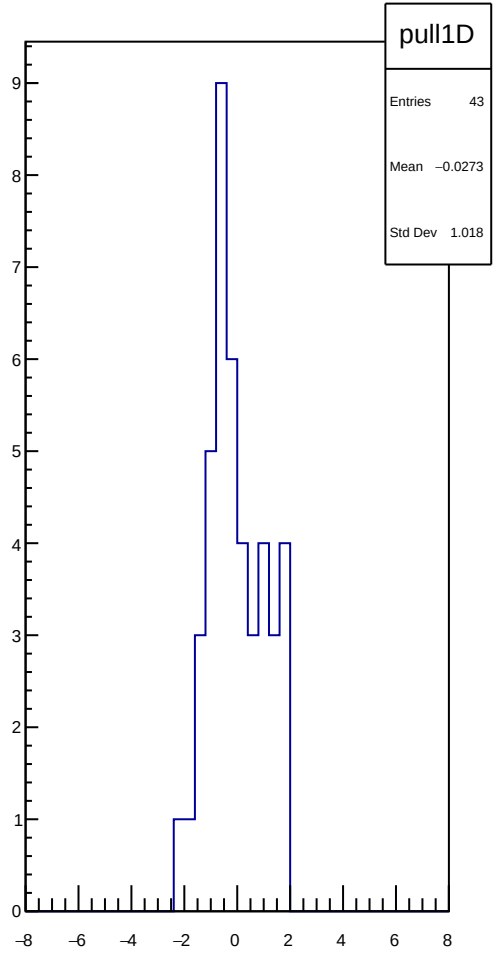
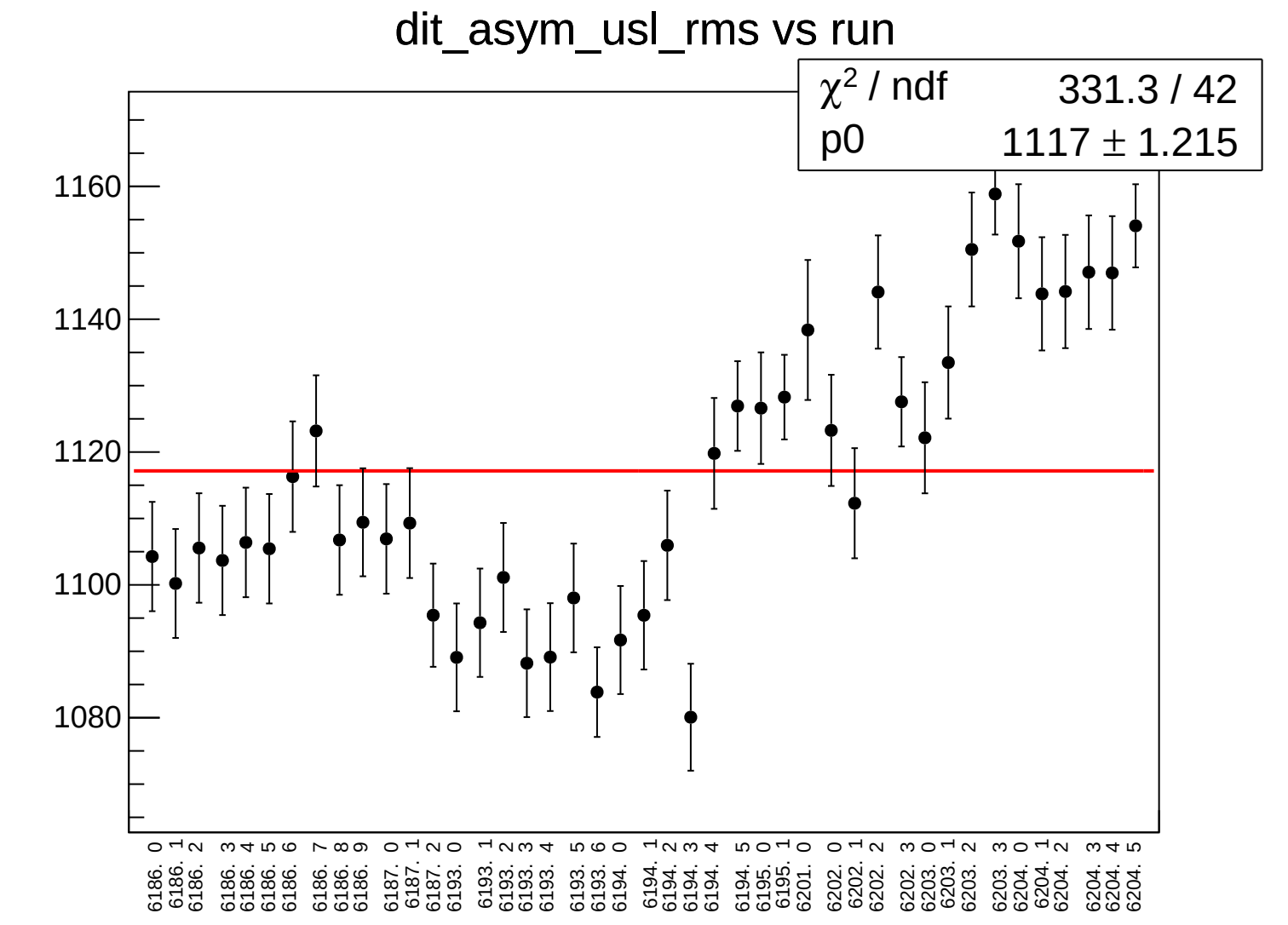
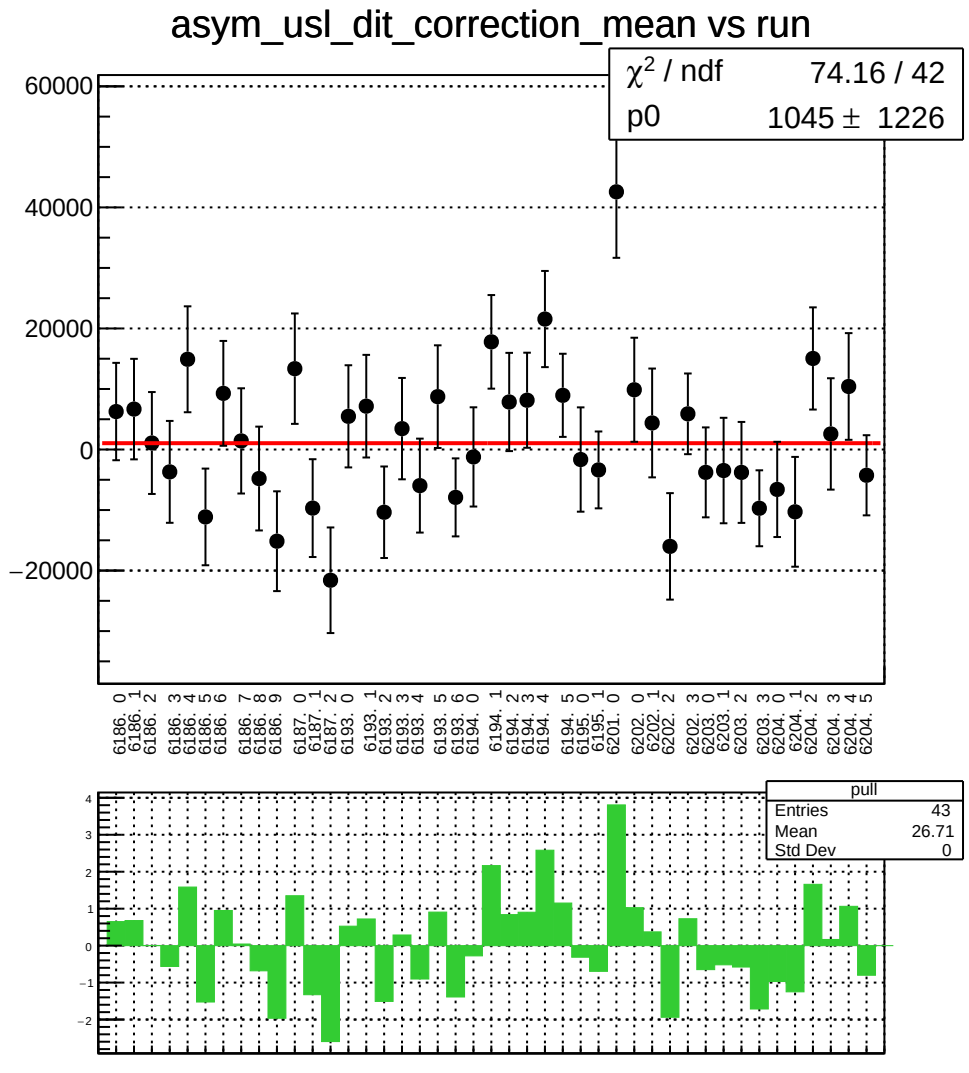
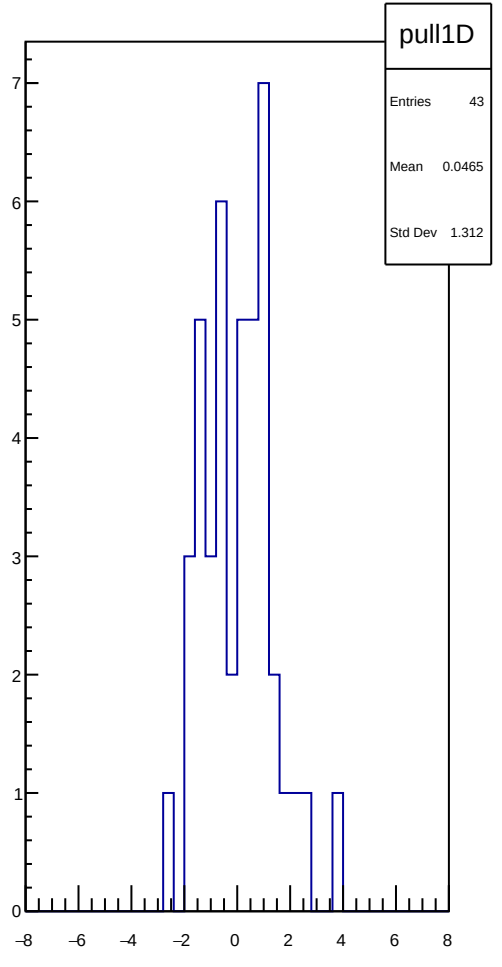
6204. 2
6204. 3
6204. 4
6204. 5

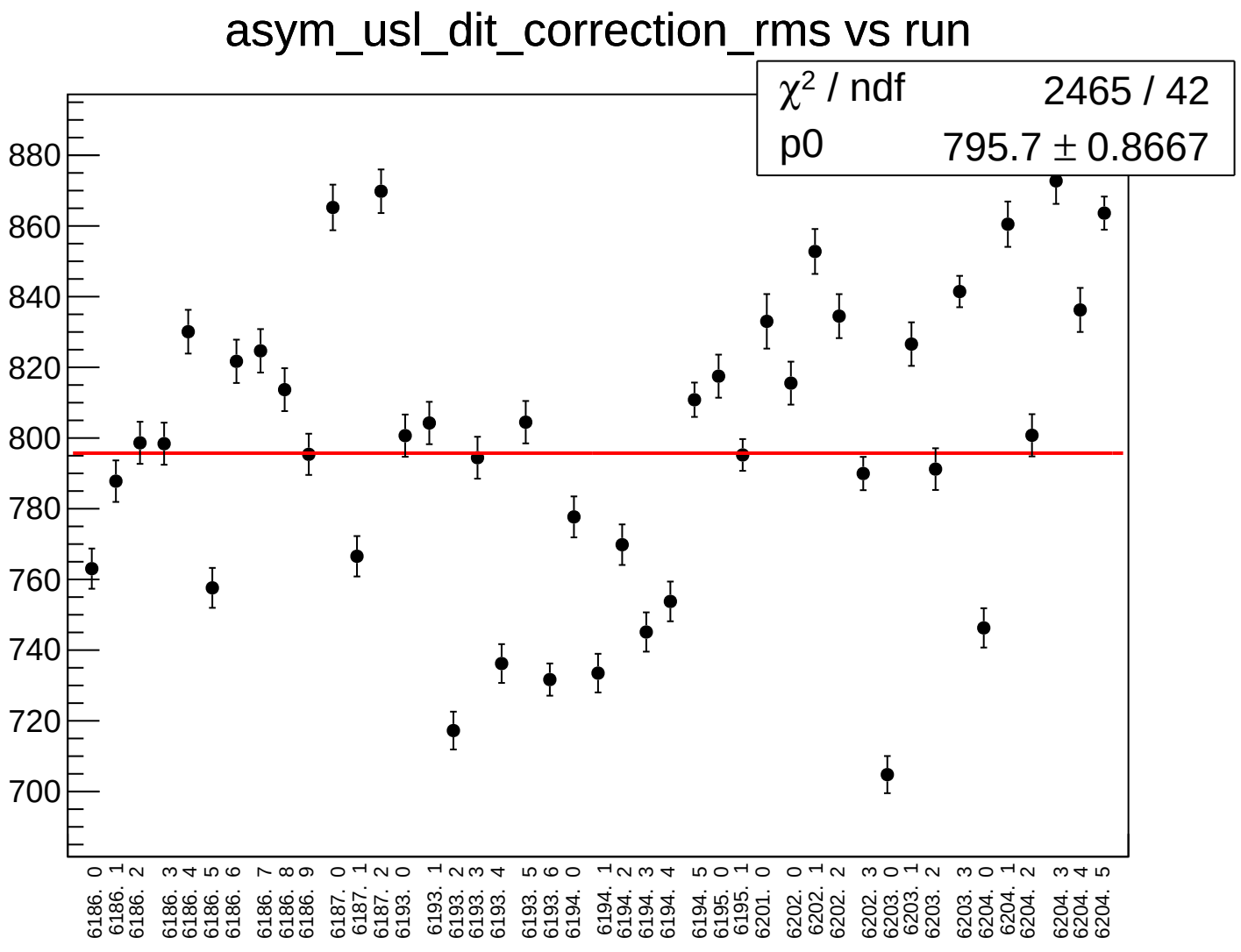

dit_asym_usl_mean vs run
χ² / ndf 44.55 / 42
p0 −1019 ± 1719
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −2.002
Std Dev 15.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

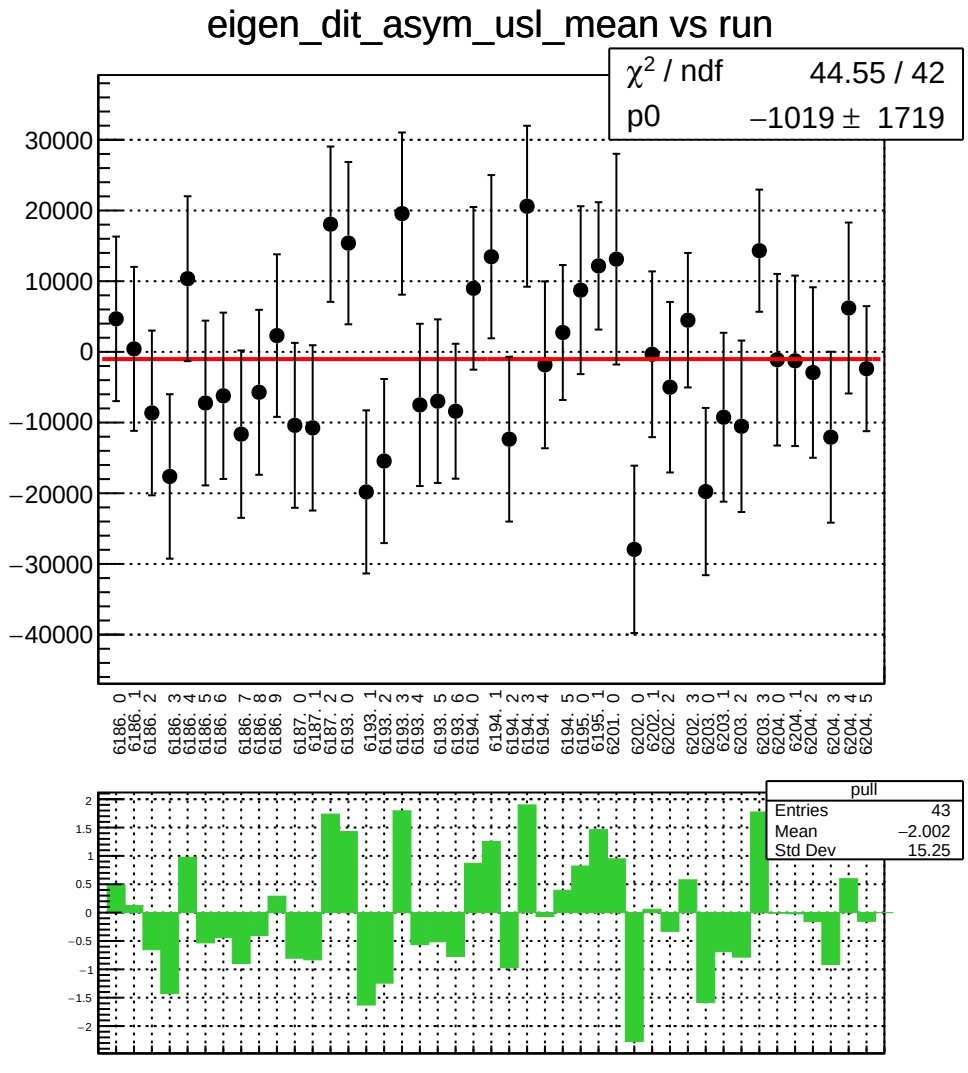

pull1D
Entries 43
Mean −0.0273
Std Dev 1.018
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

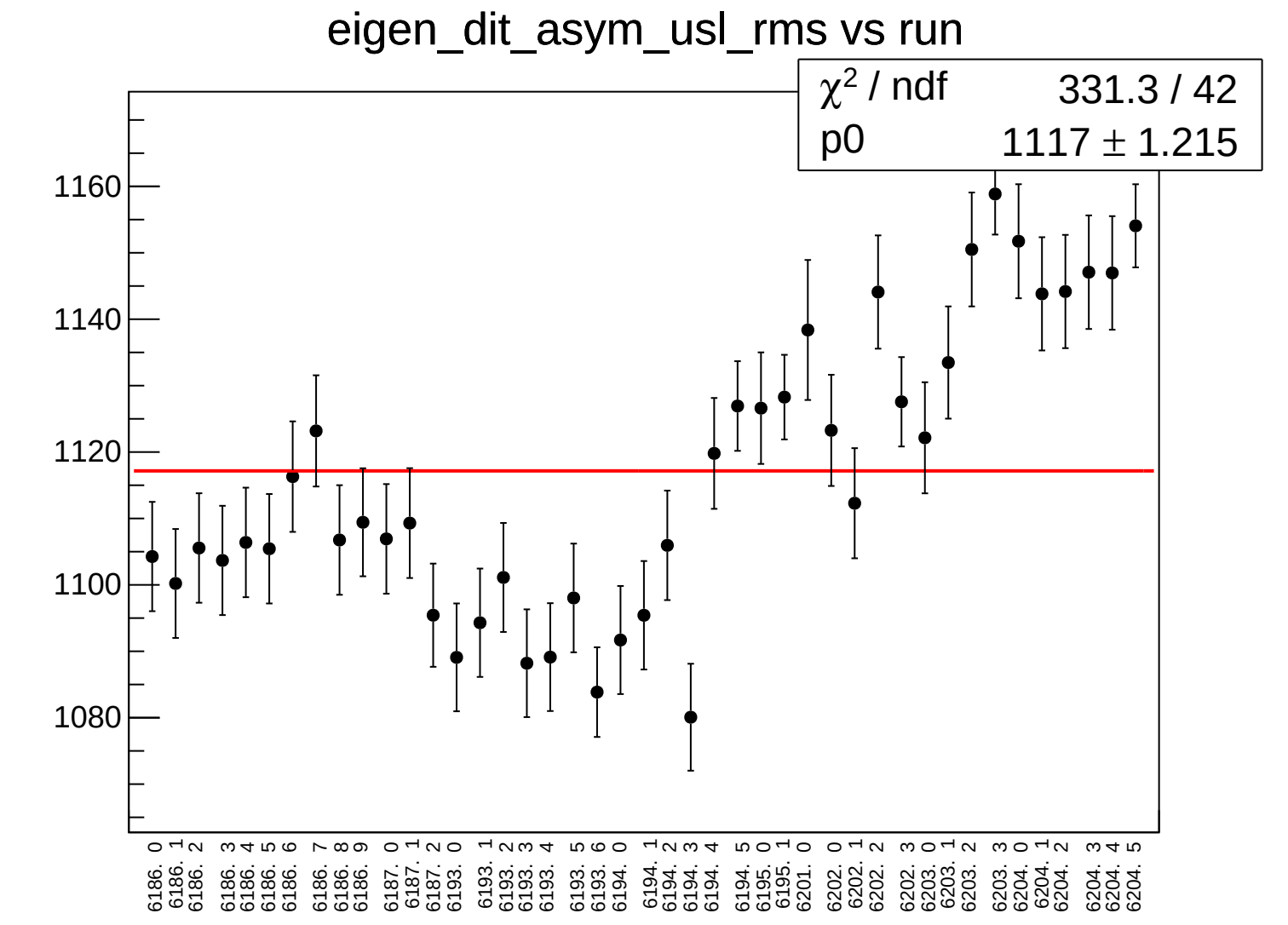

dit_asym_usl_rms vs run
χ² / ndf 331.3 / 42
p0 1117 ± 1.215
1160
1140
1120
1100
1080
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

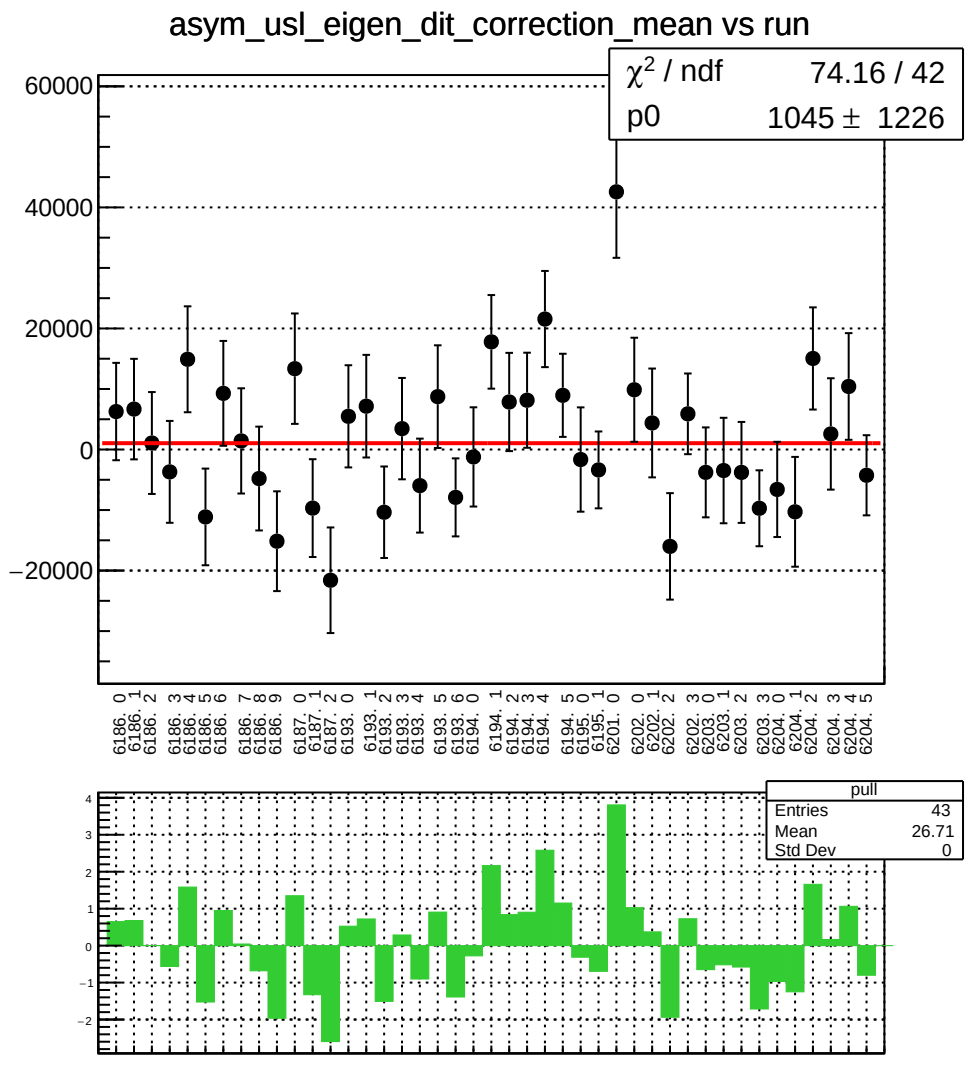

asym_usl_dit_correction_mean vs run
χ² / ndf 74.16 / 42
p0 1045 ± 1226
60000
40000
20000
0
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 26.71
Std Dev 0
4
3
2
1
0
−1
−2

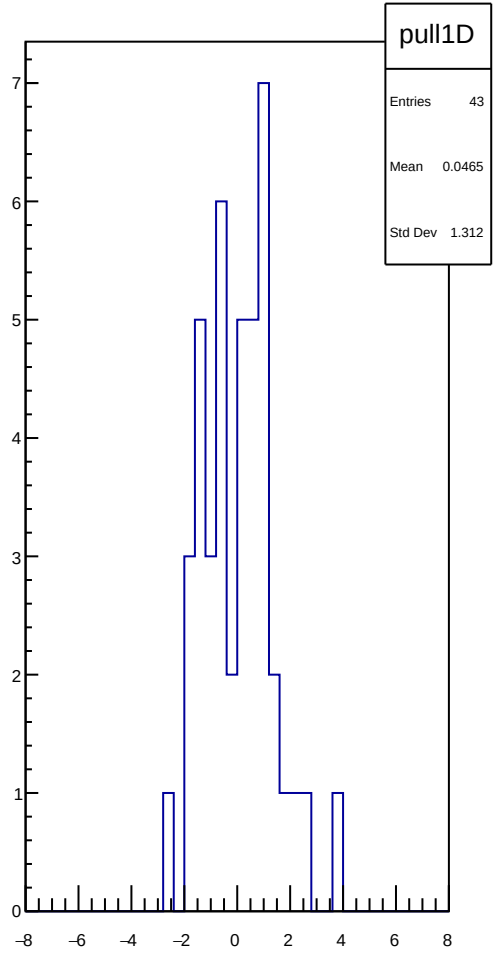

pull1D
Entries 43
Mean 0.0465
Std Dev 1.312
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

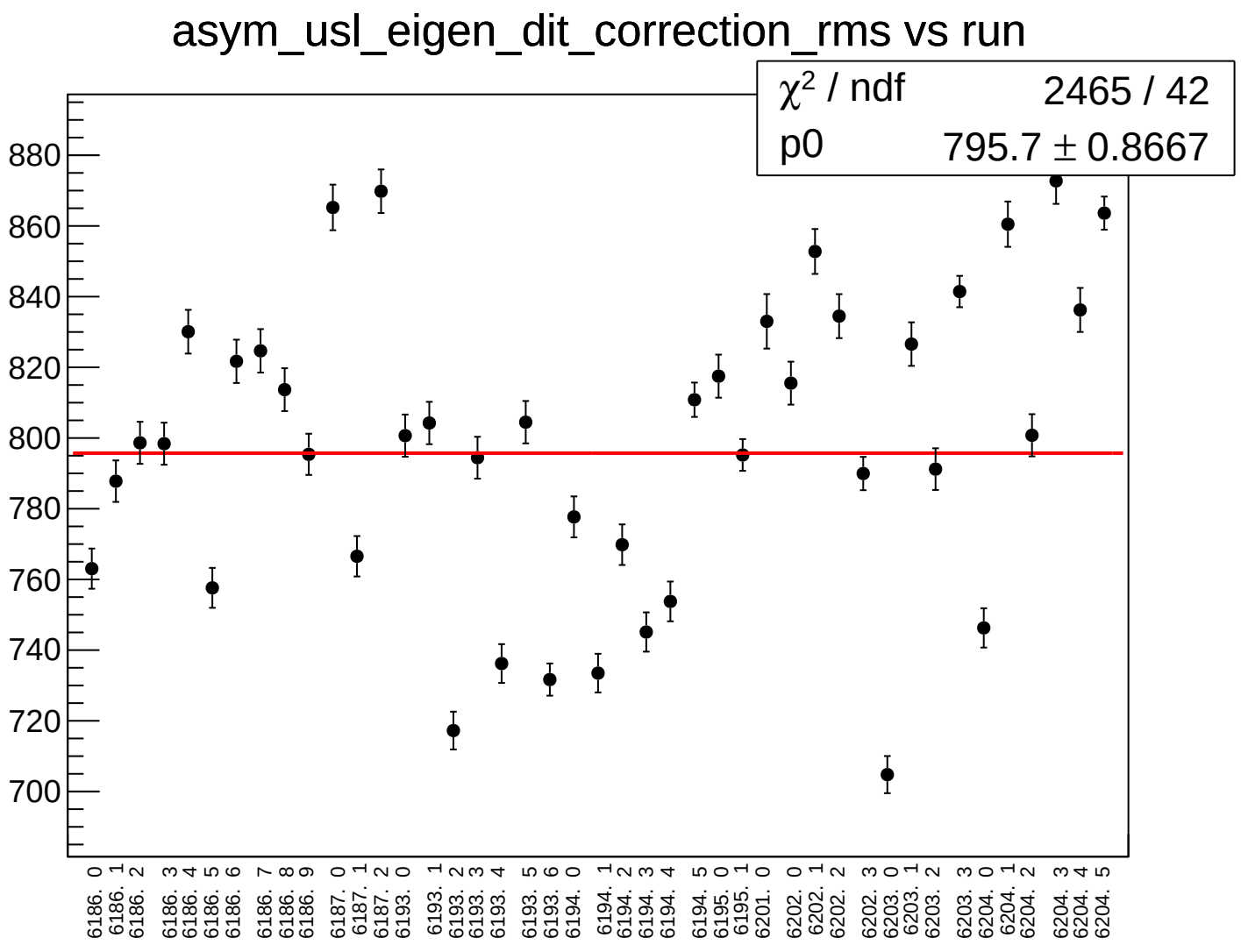

asym_usl_dit_correction_rms vs run
χ² / ndf 2465 / 42
p0 795.7 ± 0.8667
880
860
840
820
800
780
760
740
720
700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

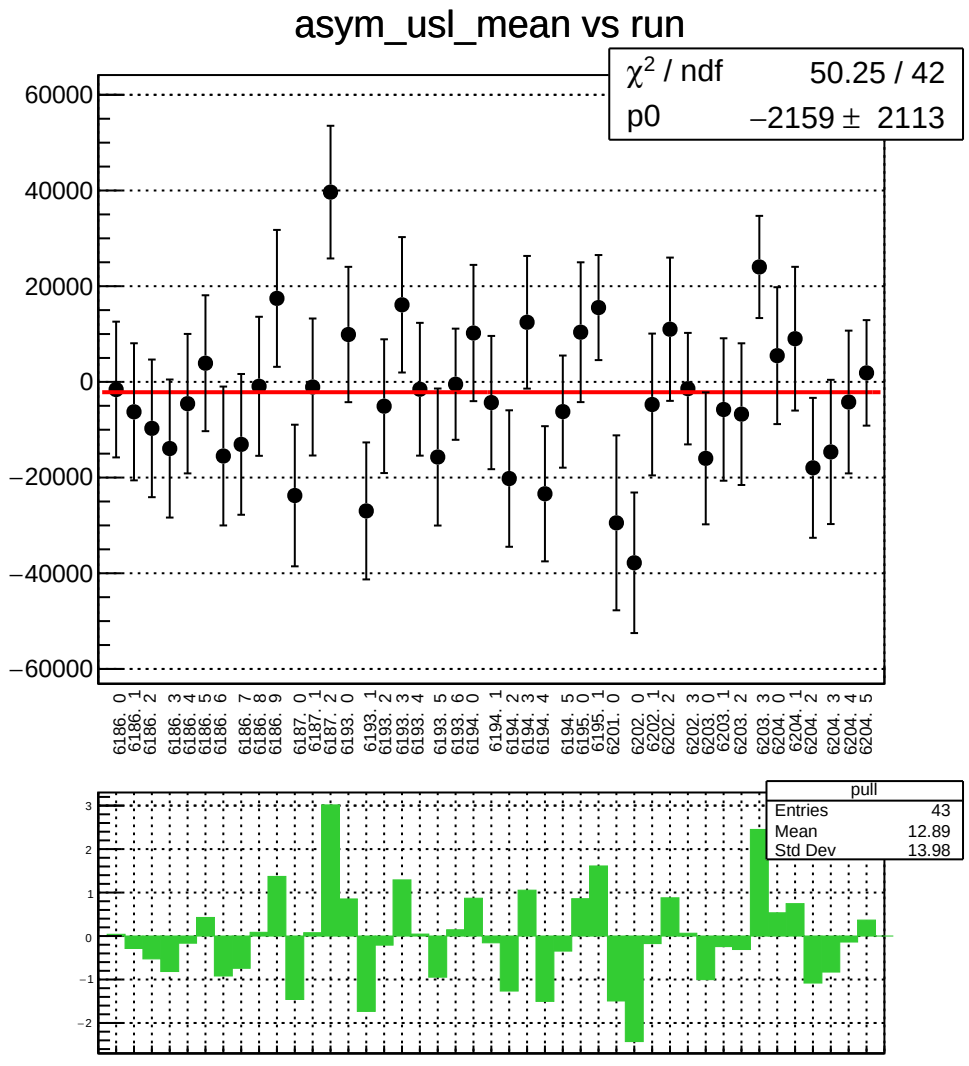

eigen_dit_asym_usl_mean vs run
χ² / ndf 44.55 / 42
p0 −1019 ± 1719
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −2.002
Std Dev 15.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0273
Std Dev 1.018
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

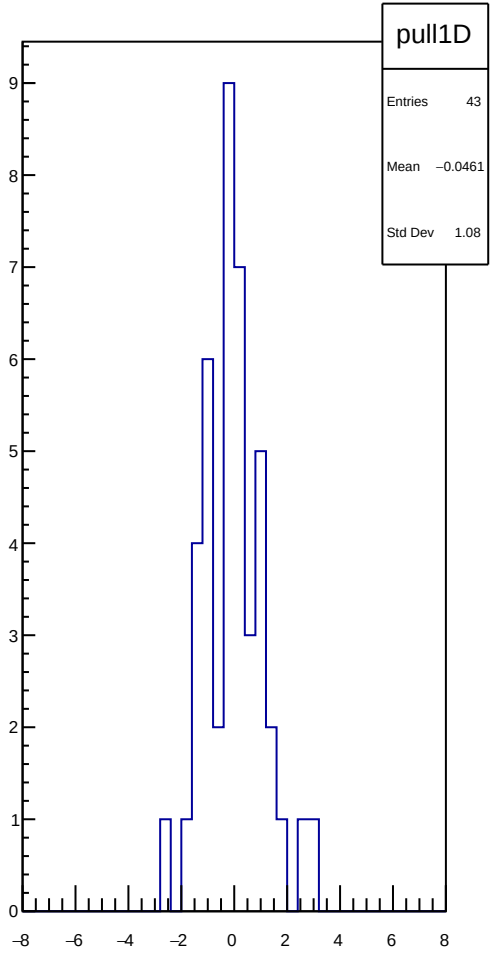

eigen_dit_asym_usl_rms vs run
χ² / ndf 331.3 / 42
p0 1117 ± 1.215
1160
1140
1120
1100
1080
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

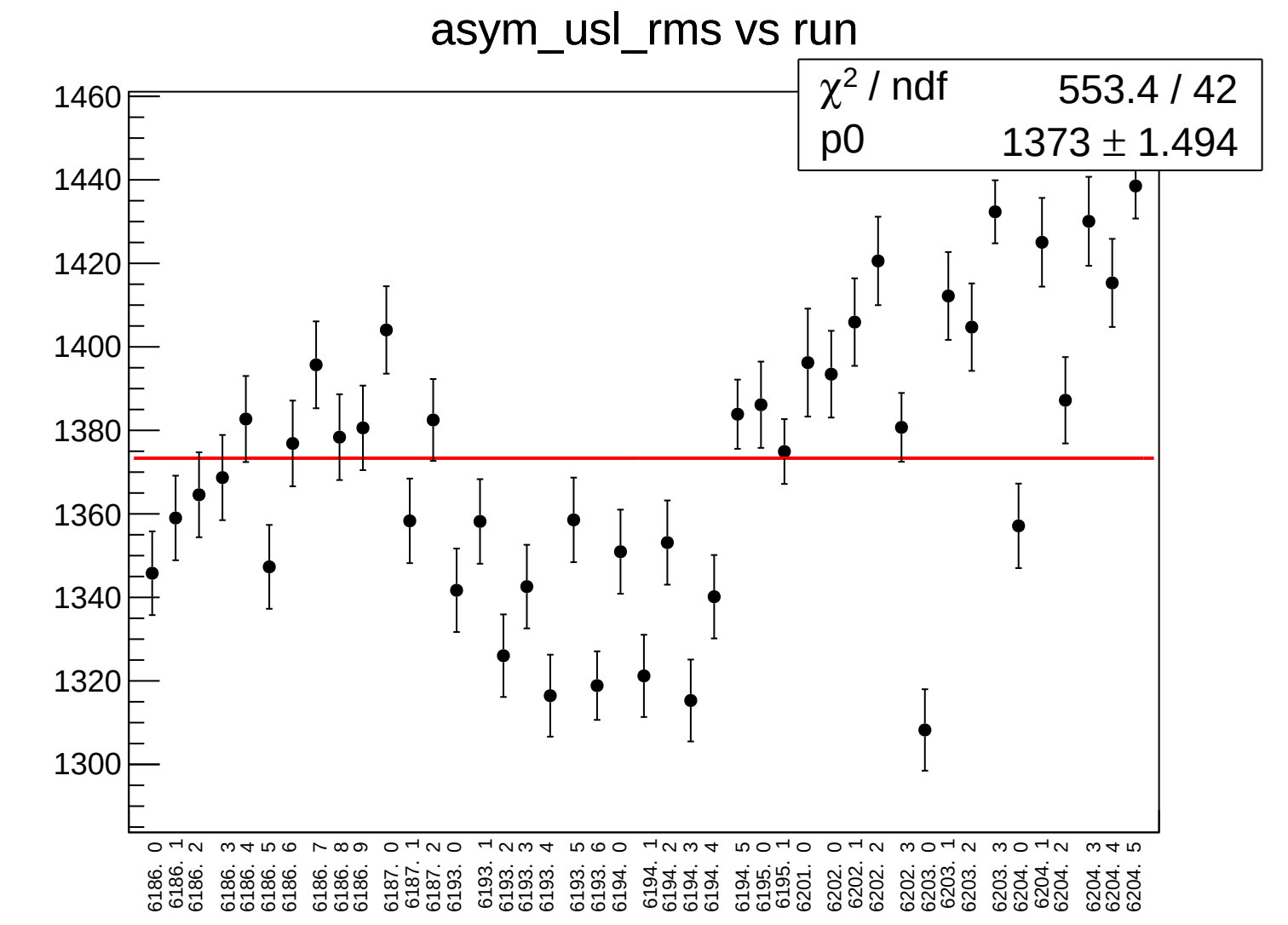

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 74.16 / 42
p0 1045 ± 1226
60000
40000
20000
0
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 26.71
Std Dev 0
4
3
2
1
0
−1
−2

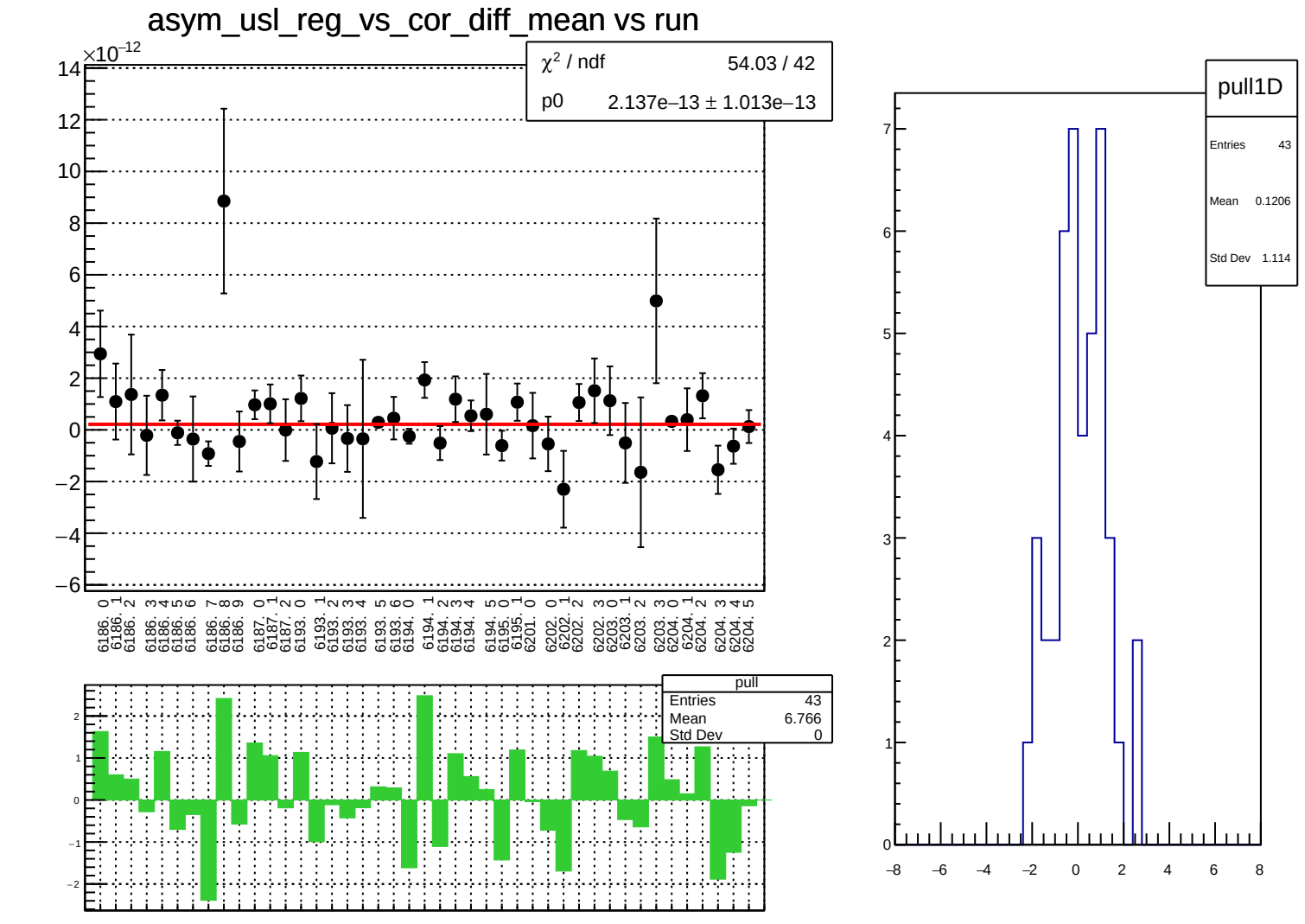

pull1D
Entries 43
Mean 0.0465
Std Dev 1.312
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

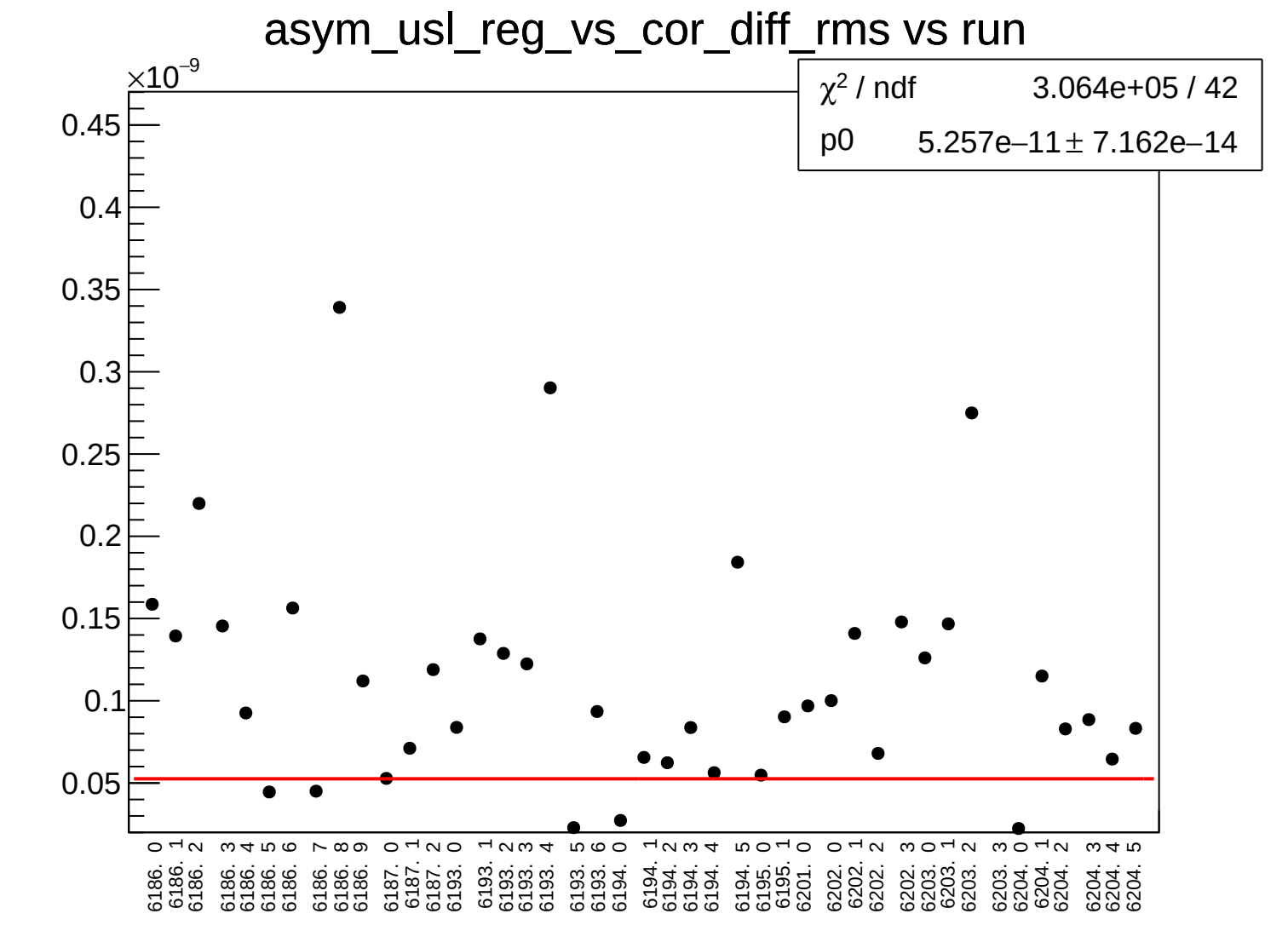

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 2465 / 42
p0 795.7 ± 0.8667
880
860
840
820
800
780
760
740
720
700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

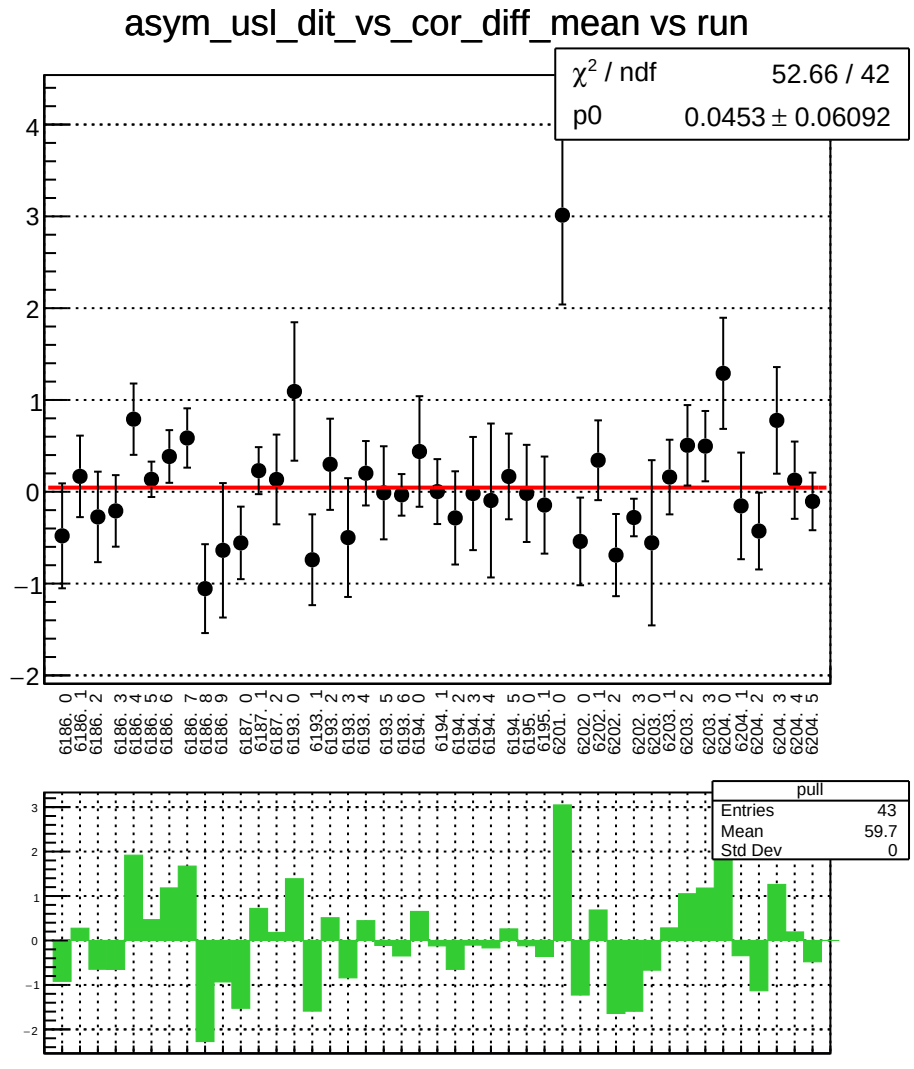

asym_usl_mean vs run
χ² / ndf 50.25 / 42
p0 −2159 ± 2113
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 12.89
Std Dev 13.98
3
2
1
0
−1
−2

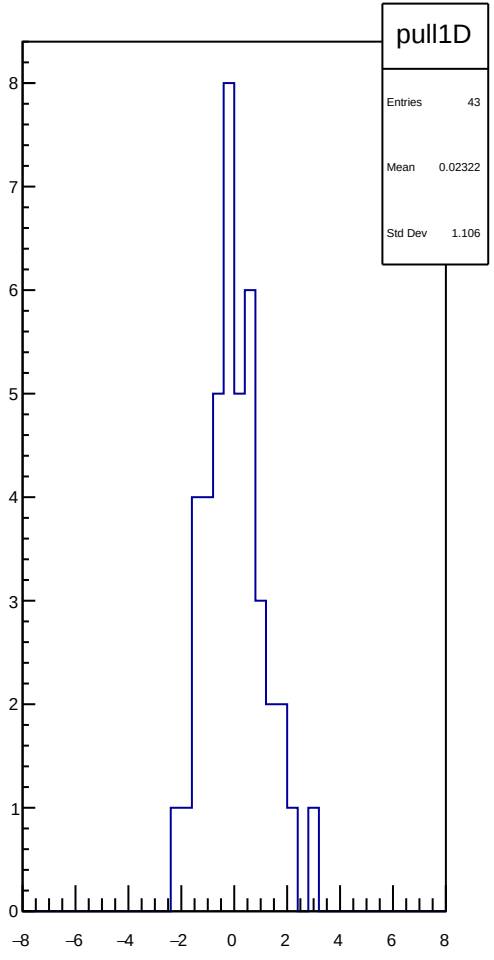

pull1D
Entries 43
Mean −0.0461
Std Dev 1.08
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

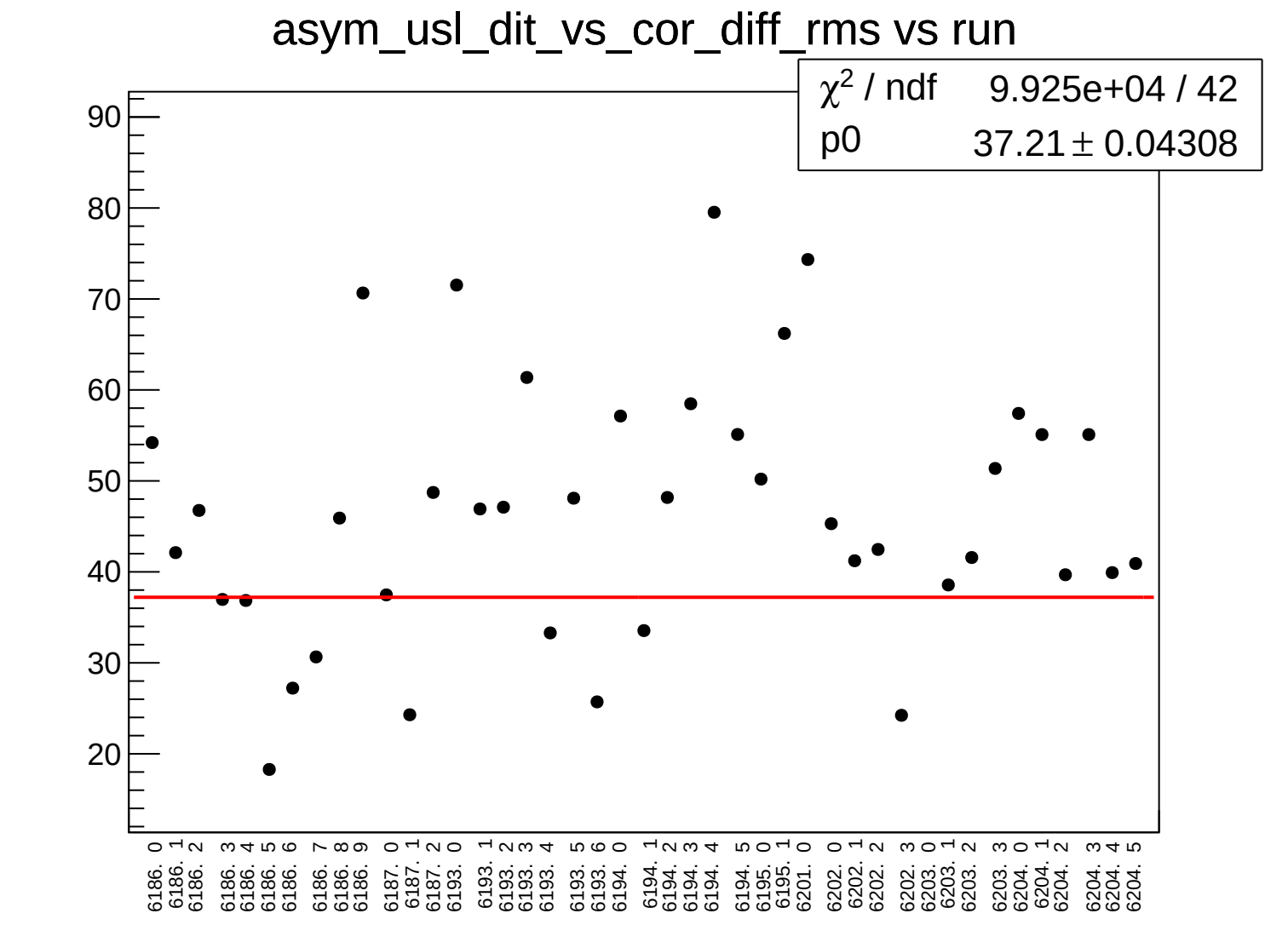

asym_usl_rms vs run
χ² / ndf 553.4 / 42
p0 1373 ± 1.494
1460
1440
1420
1400
1380
1360
1340
1320
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

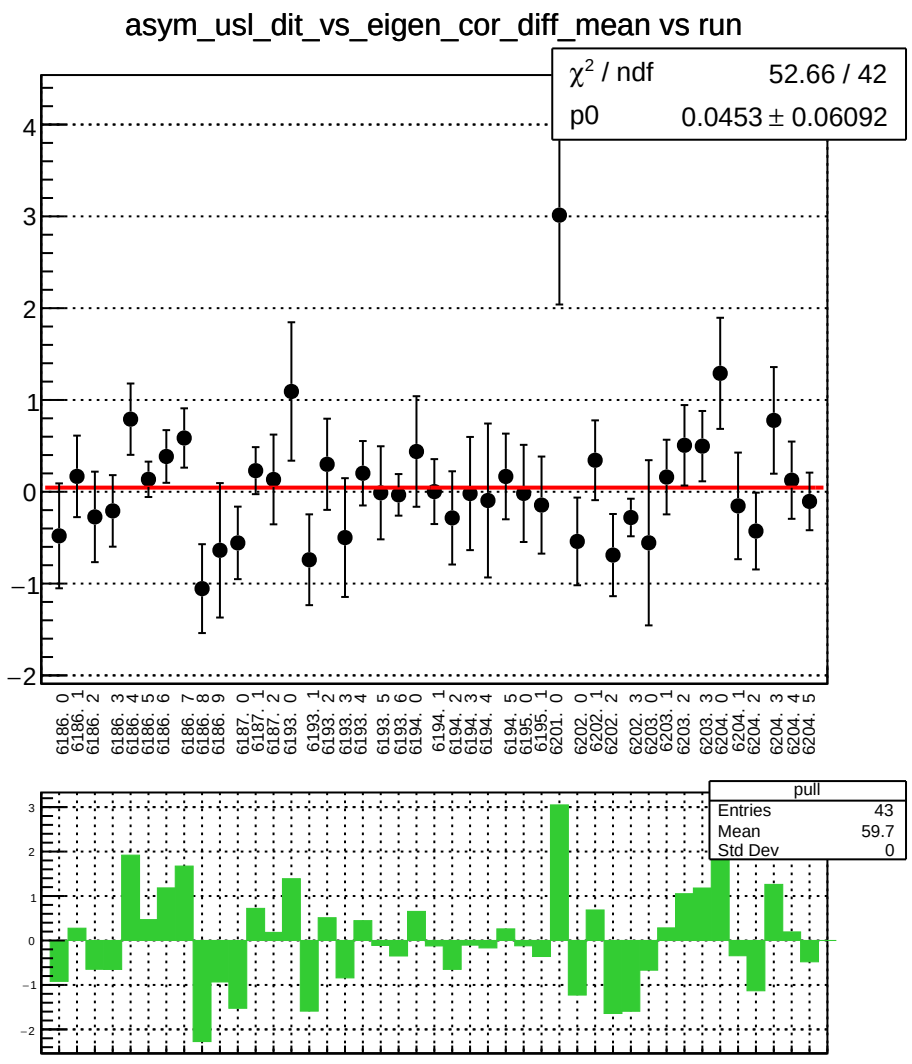

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 54.03 / 42
p0 2.137e−13 ± 1.013e−13
pull
Entries 43
Mean 6.766
Std Dev 0
pull1D
Entries 43
Mean 0.1206
Std Dev 1.114

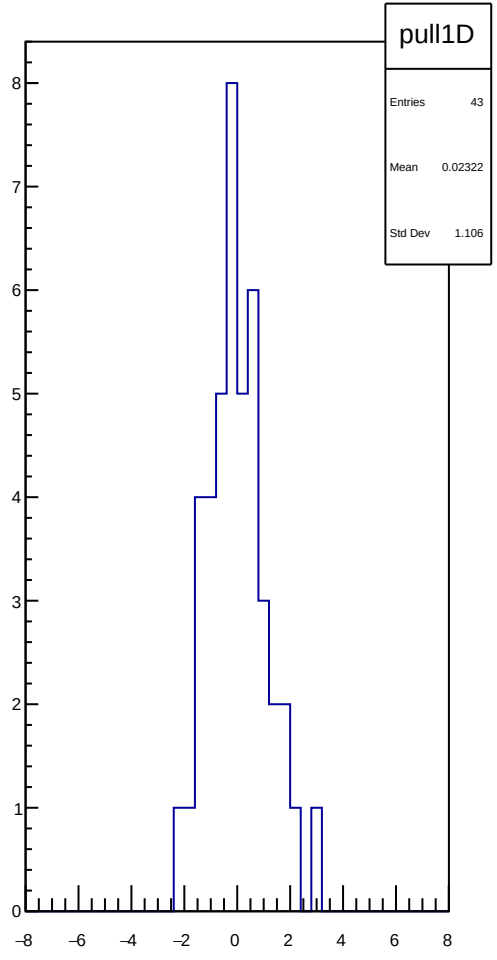

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.064e+05 / 42
p0 5.257e−11 ± 7.162e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

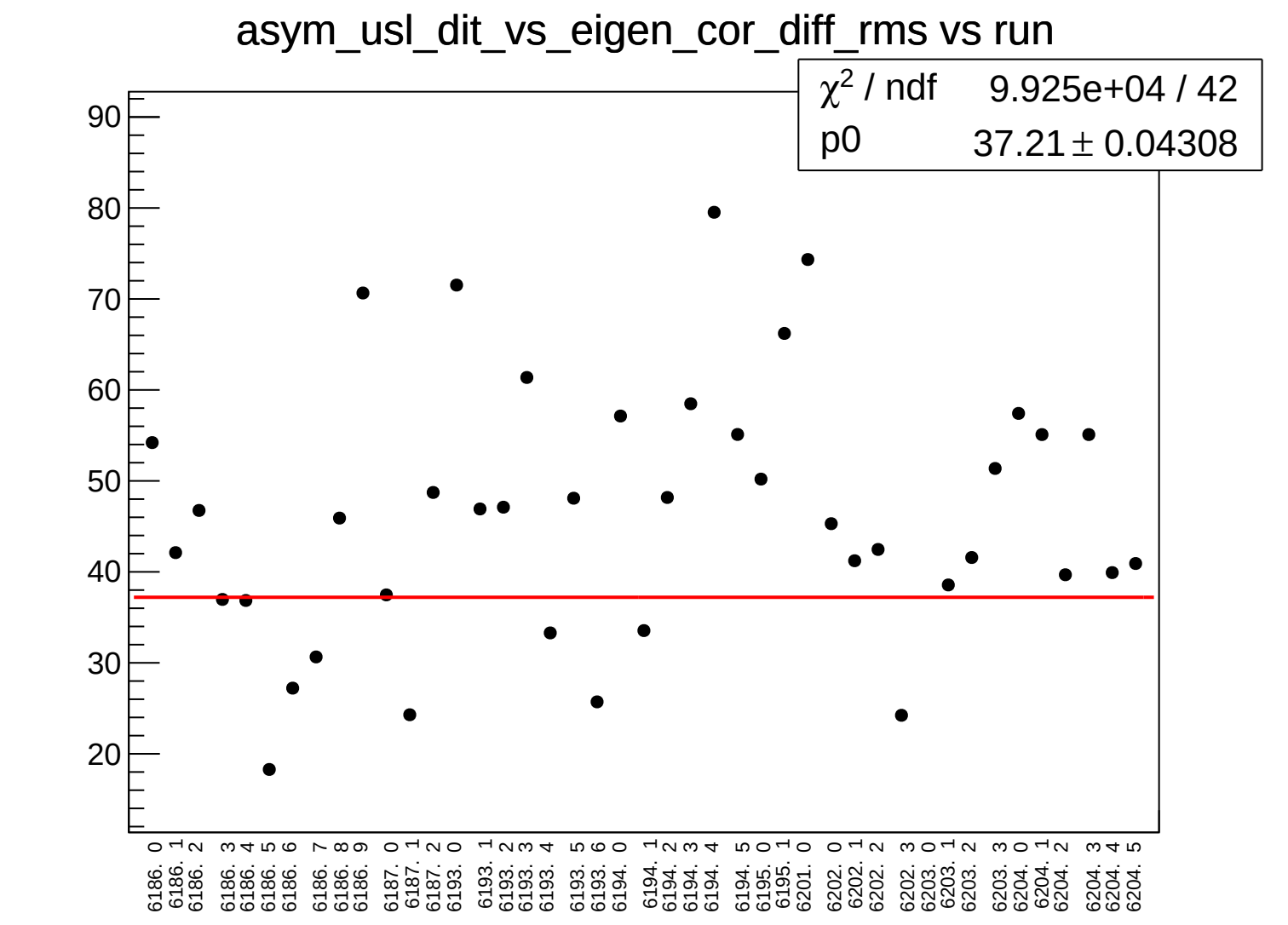

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 52.66 / 42
p0 0.0453 ± 0.06092
pull
Entries 43
Mean 59.7
Std Dev 0

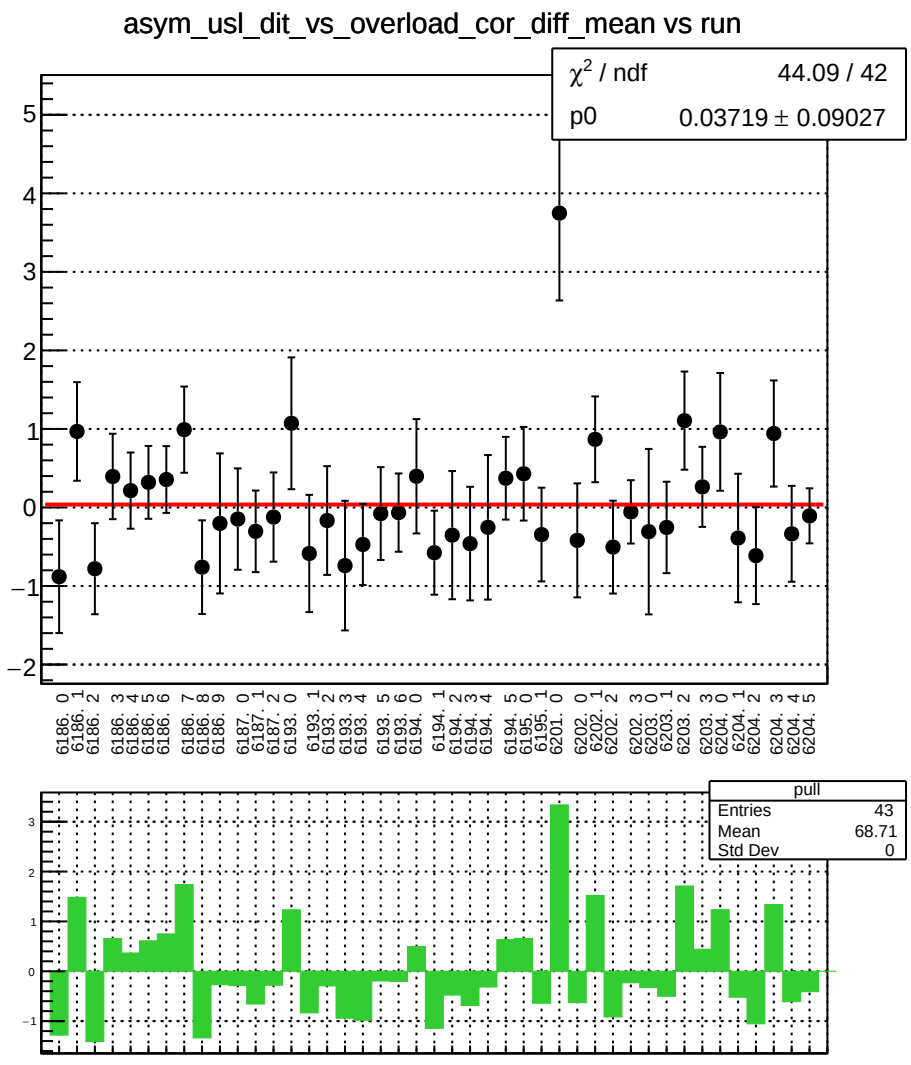

pull1D
Entries 43
Mean 0.02322
Std Dev 1.106

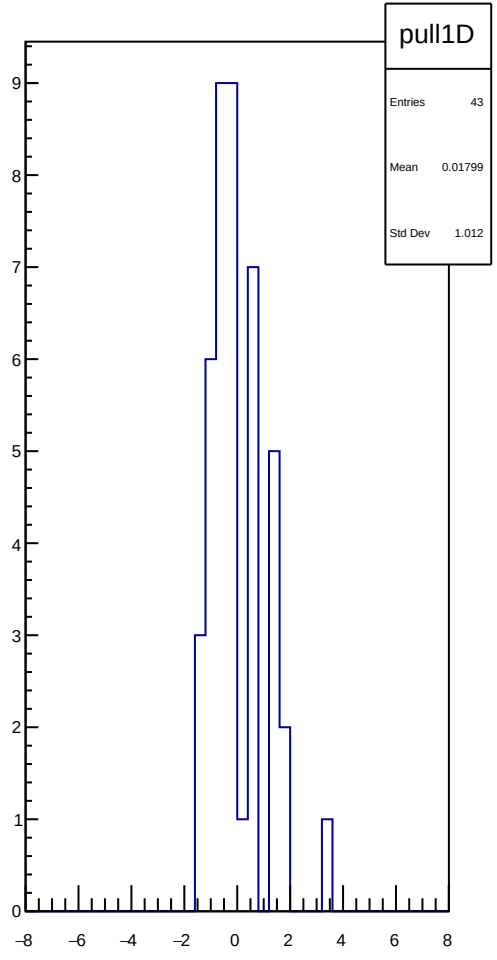

asym_usl_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.925e+04 / 42
p0 37.21 ± 0.04308
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

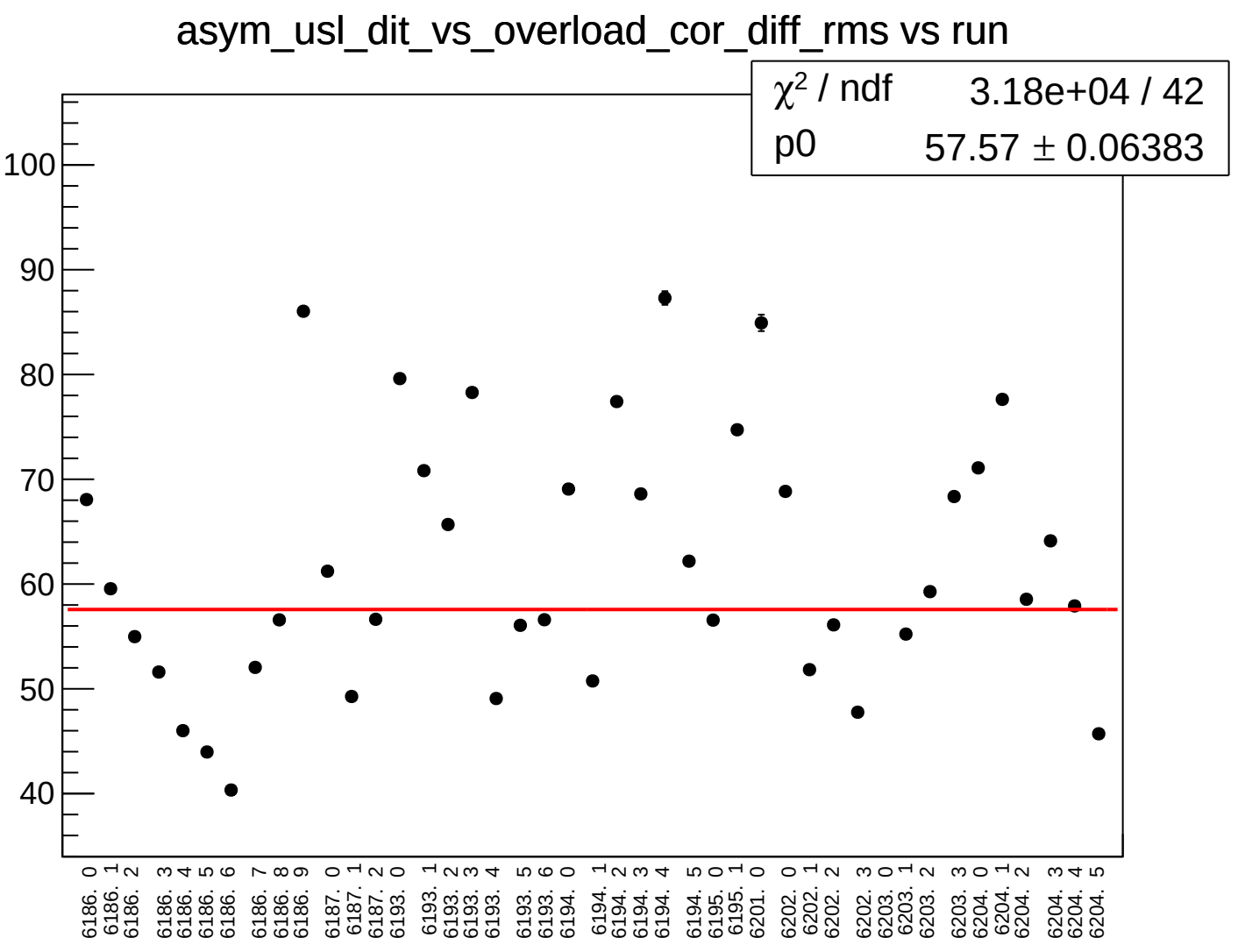

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.66 / 42
p0 0.0453 ± 0.06092
pull
Entries 43
Mean 59.7
Std Dev 0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

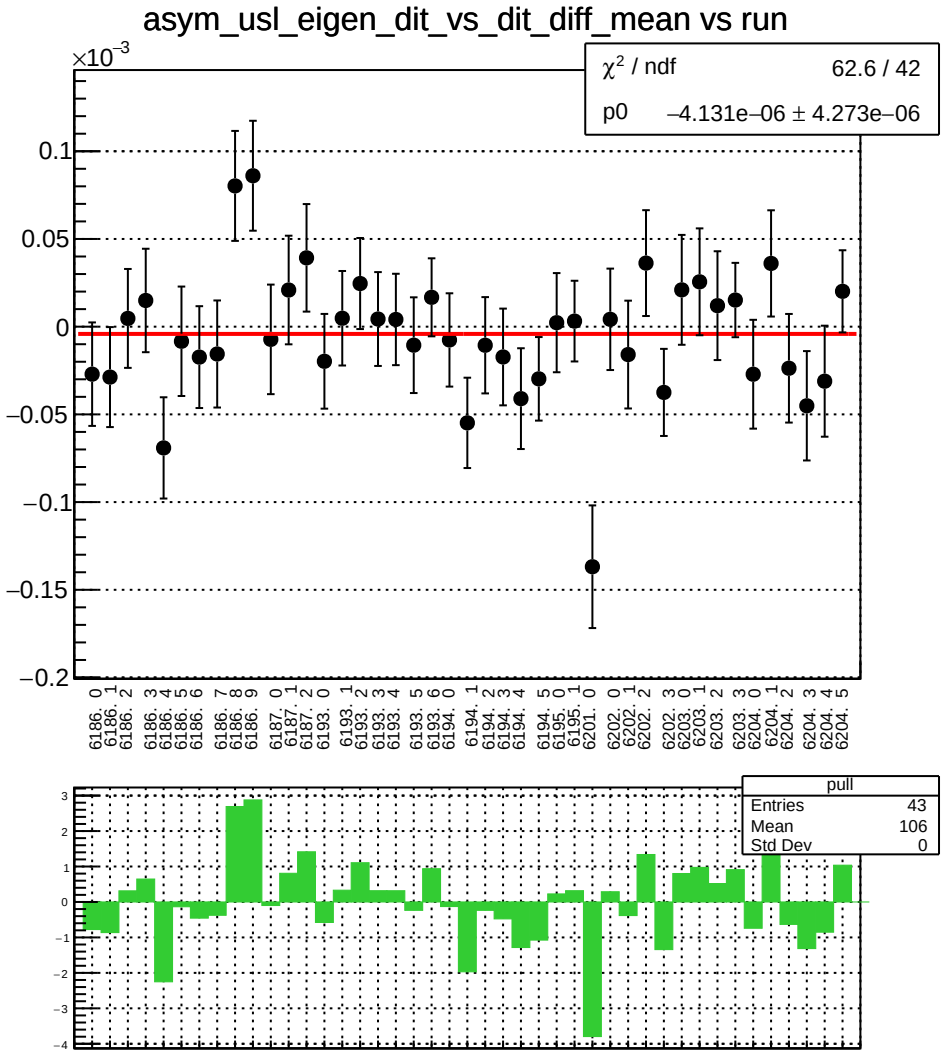

pull1D
Entries 43
Mean 0.02322
Std Dev 1.106

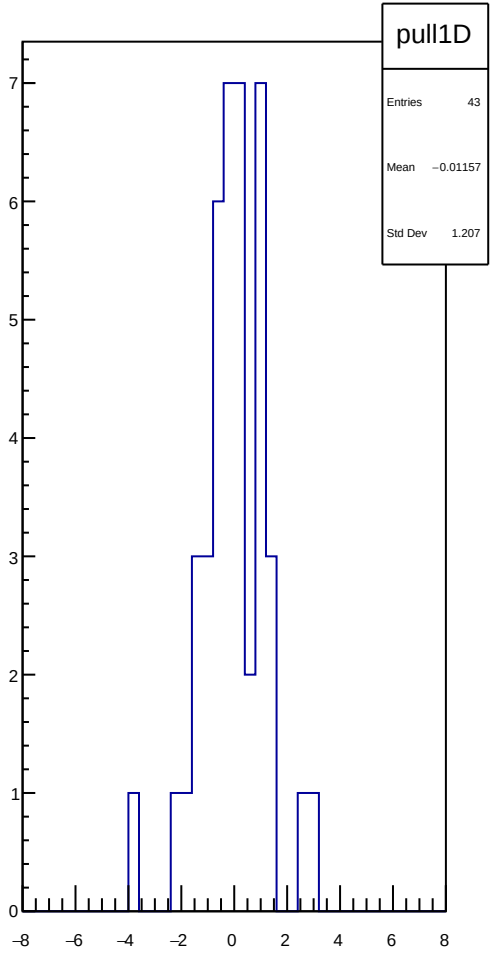

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.925e+04 / 42
p0 37.21 ± 0.04308
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

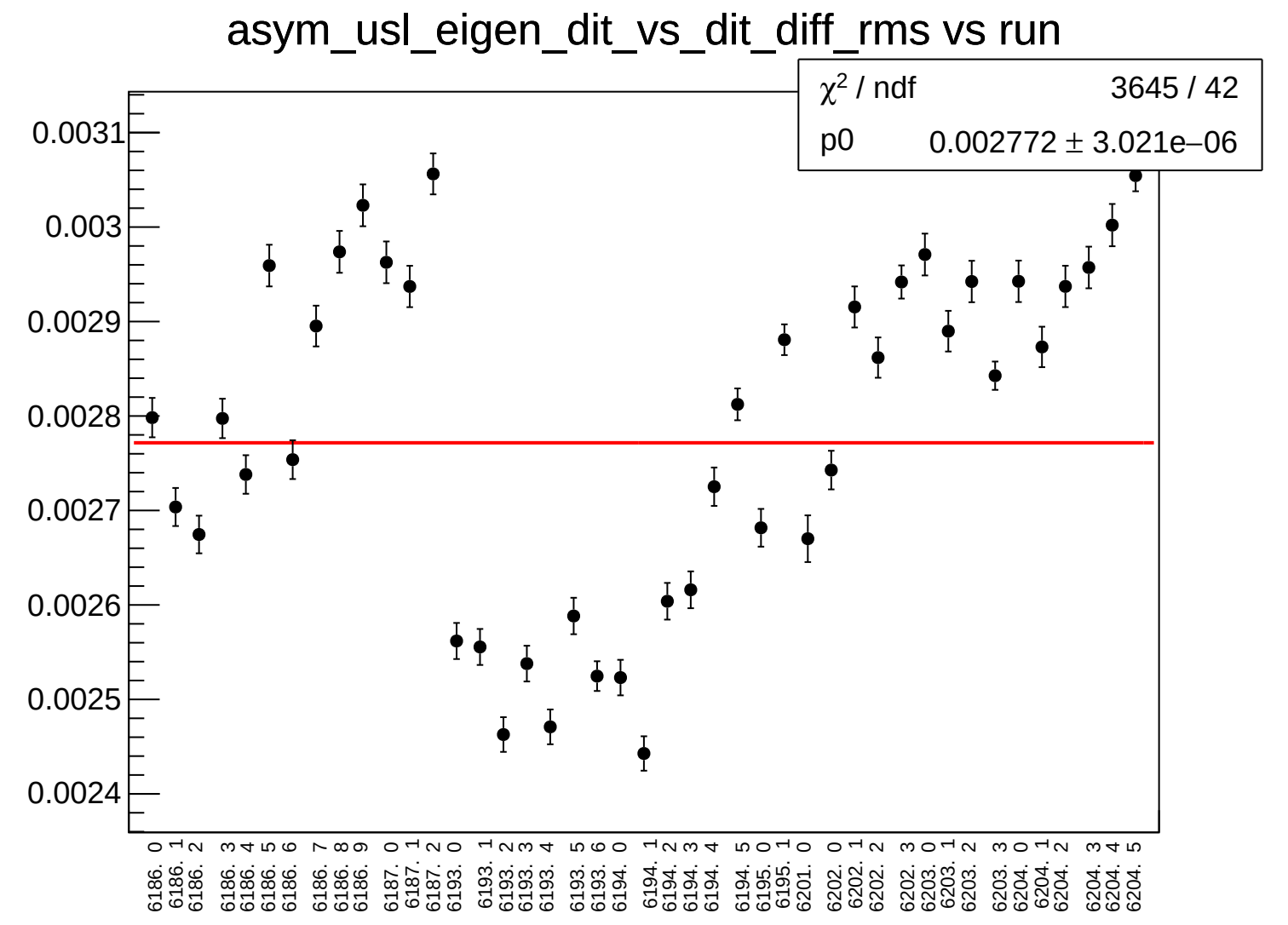

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 44.09 / 42
p0 0.03719 ± 0.09027
pull
Entries 43
Mean 68.71
Std Dev 0

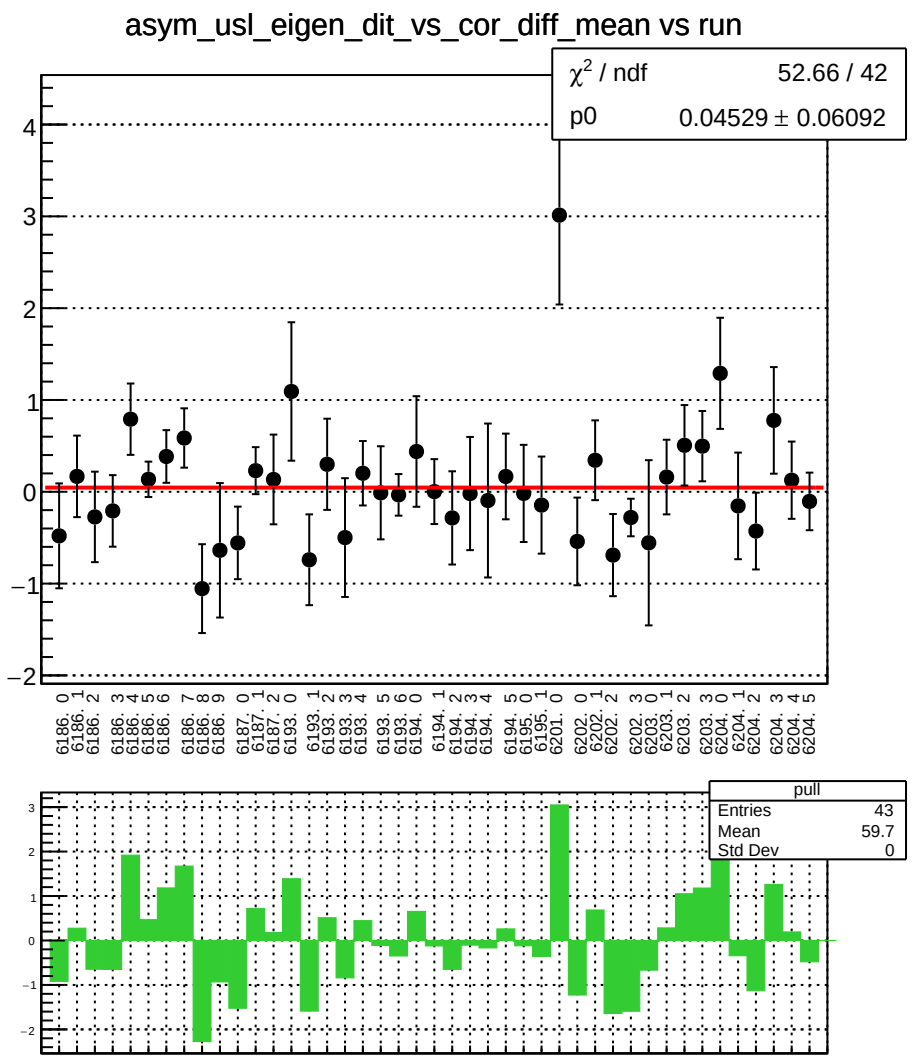

pull1D
Entries 43
Mean 0.01799
Std Dev 1.012

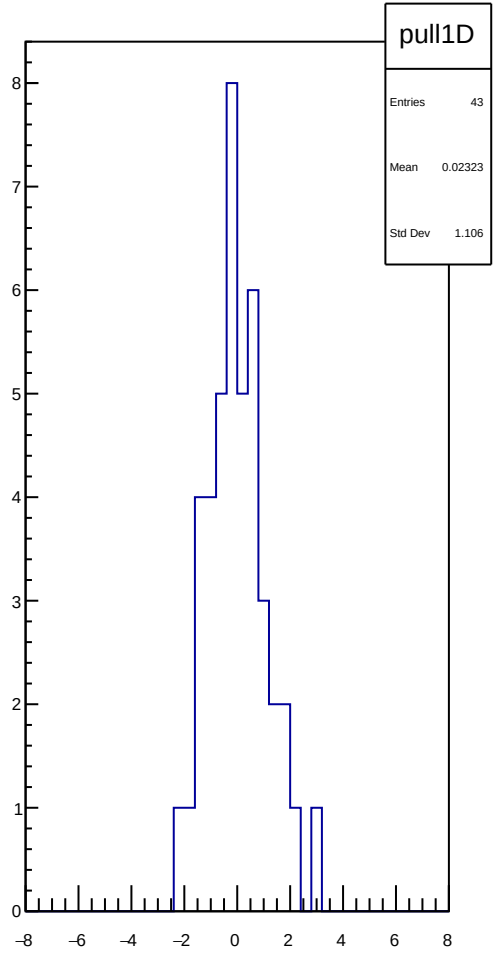

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.18e+04 / 42
p0 57.57 ± 0.06383
100
90
80
70
60
50
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

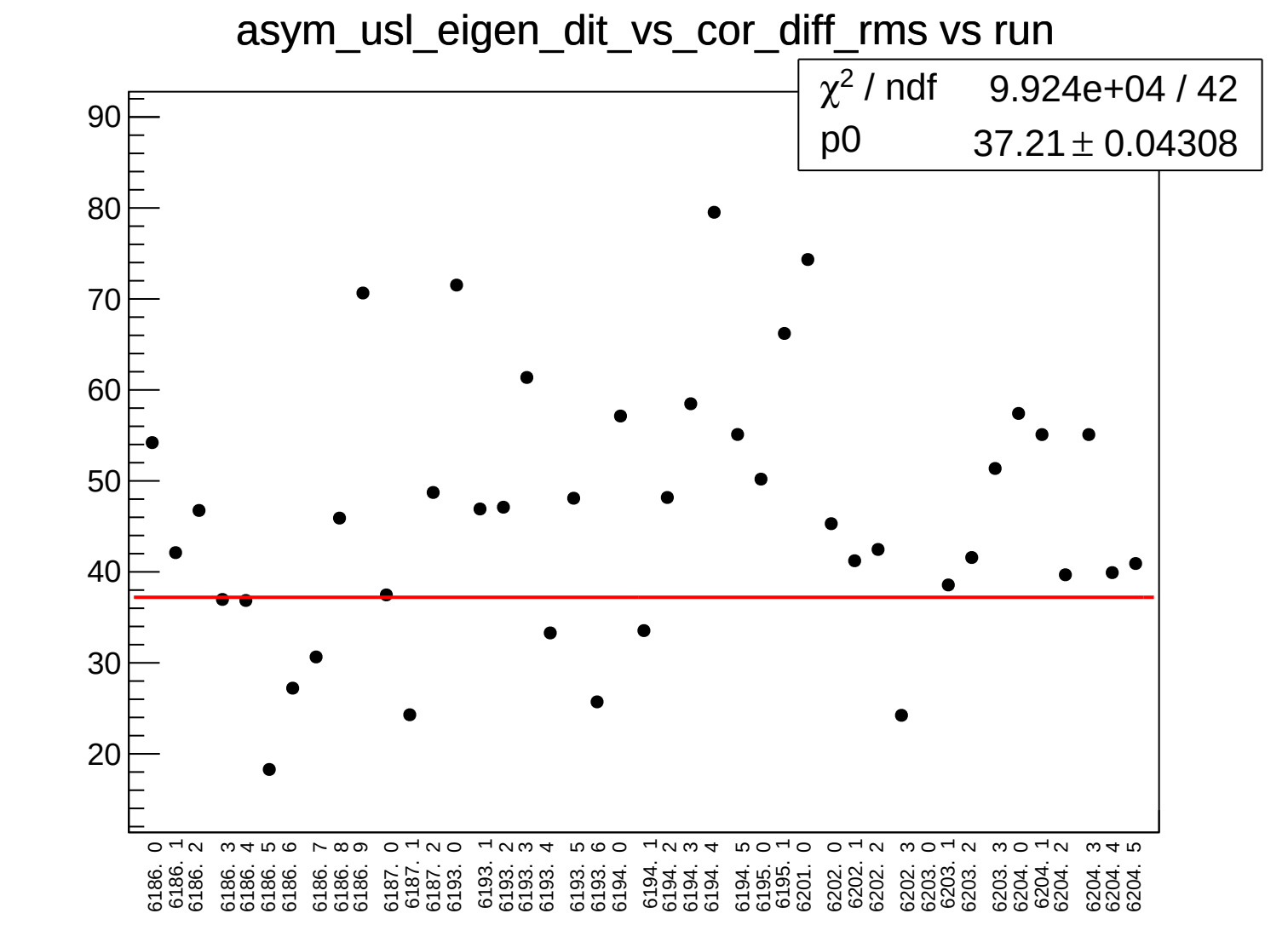

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 62.6 / 42
p0 −4.131e−06 ± 4.273e−06
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 106
Std Dev 0
3
2
1
0
−1
−2
−3
−4

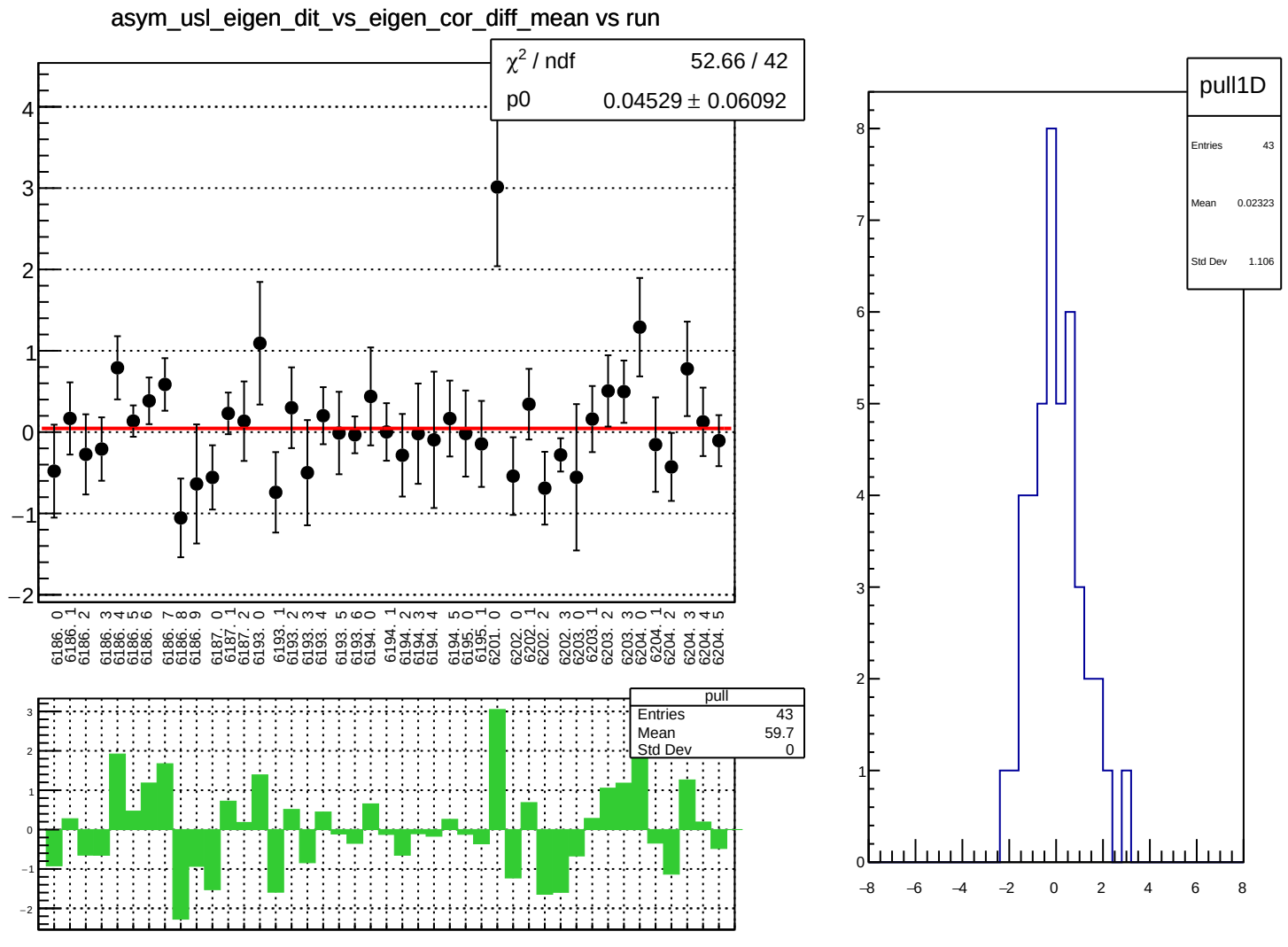

pull1D
Entries 43
Mean −0.01157
Std Dev 1.207
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

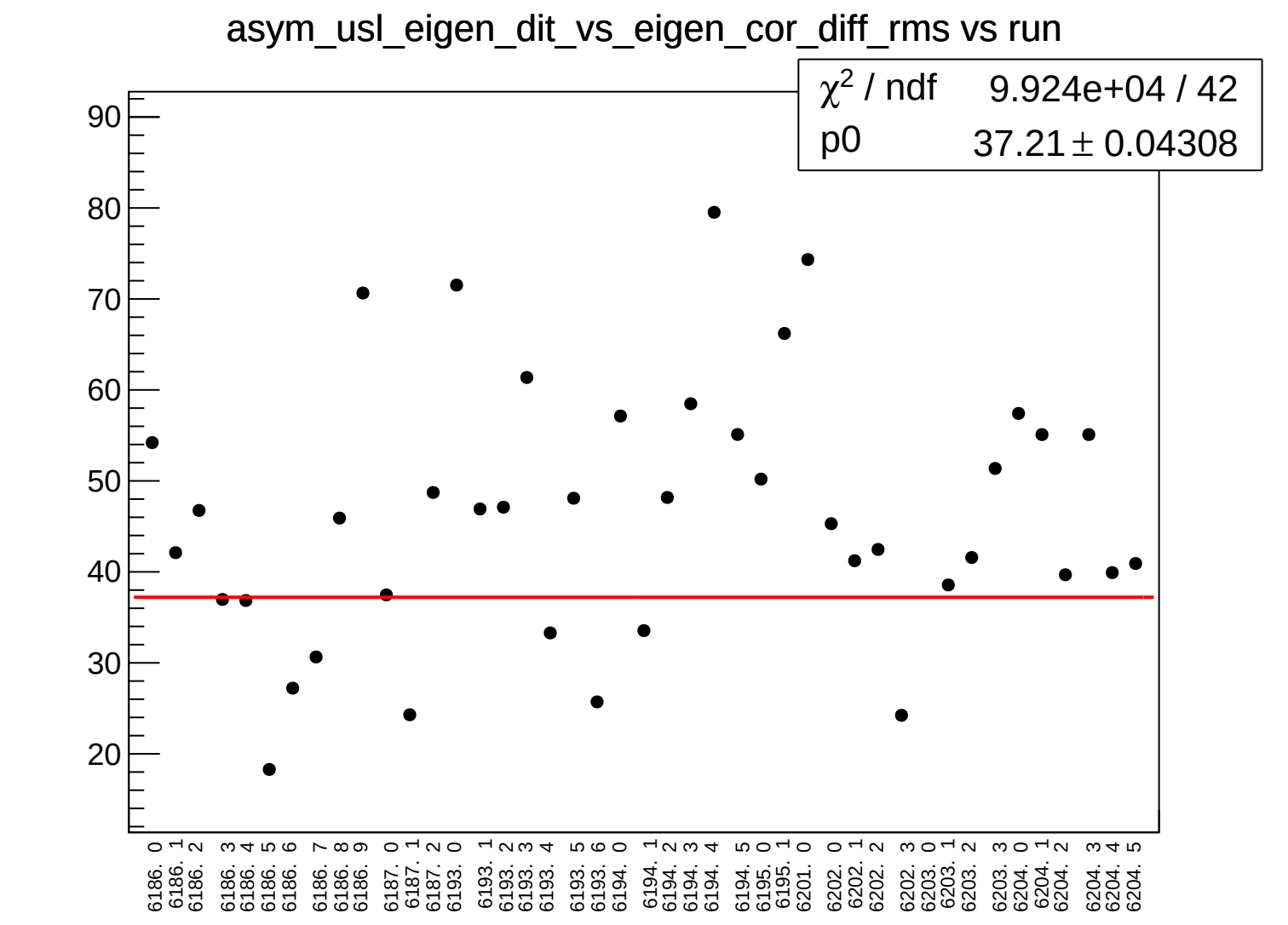

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3645 / 42
p0 0.002772 ± 3.021e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

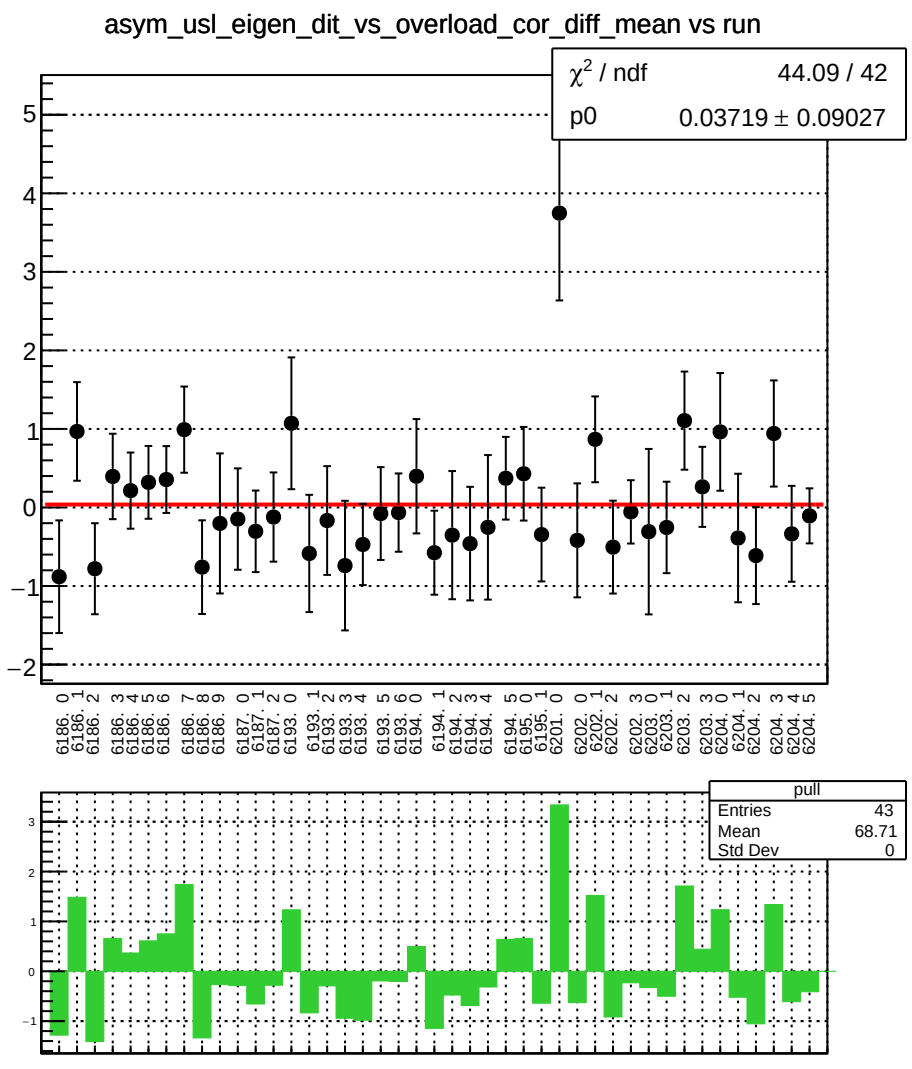

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.66 / 42
p0 0.04529 ± 0.06092
pull
Entries 43
Mean 59.7
Std Dev 0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

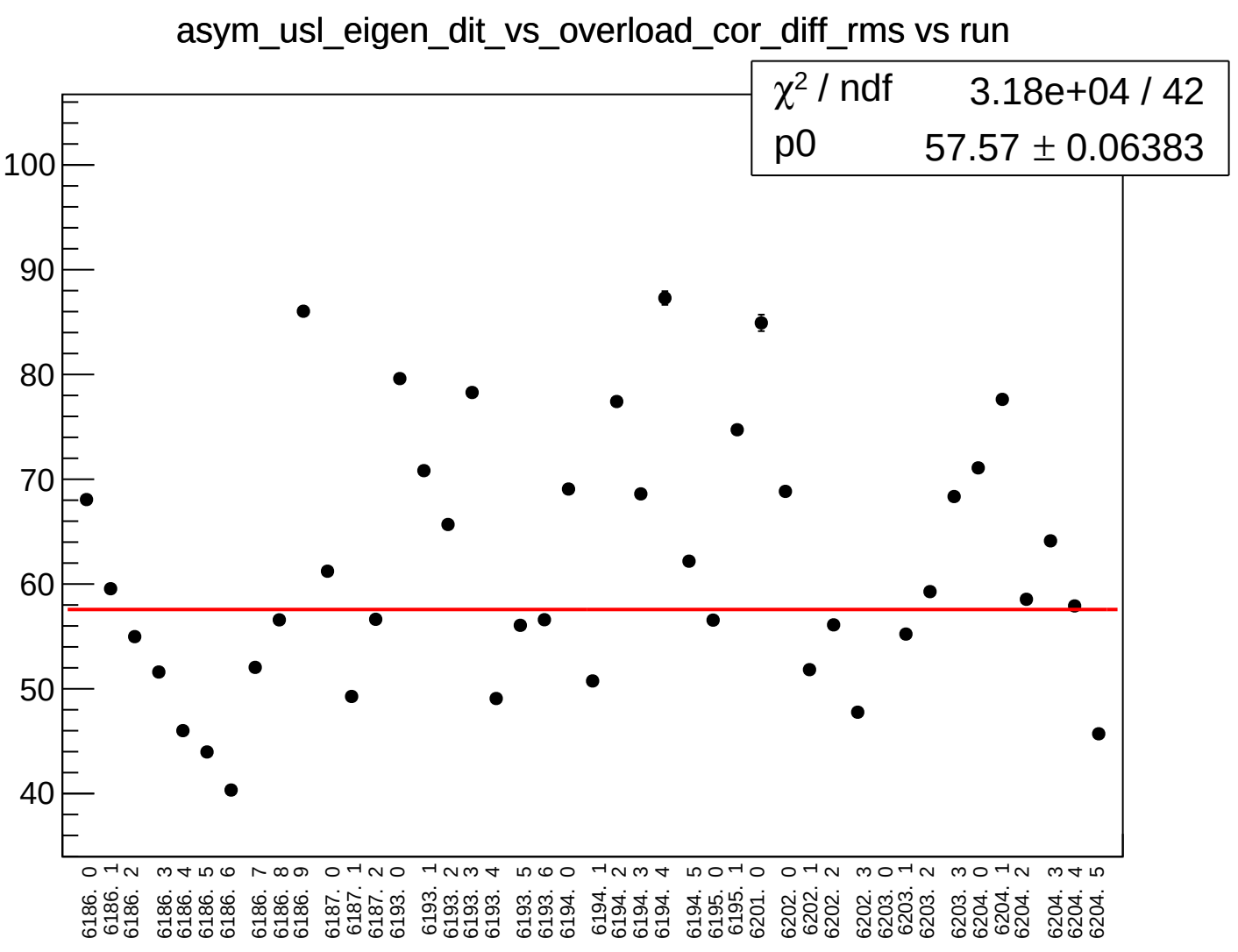

pull1D
Entries 43
Mean 0.02323
Std Dev 1.106

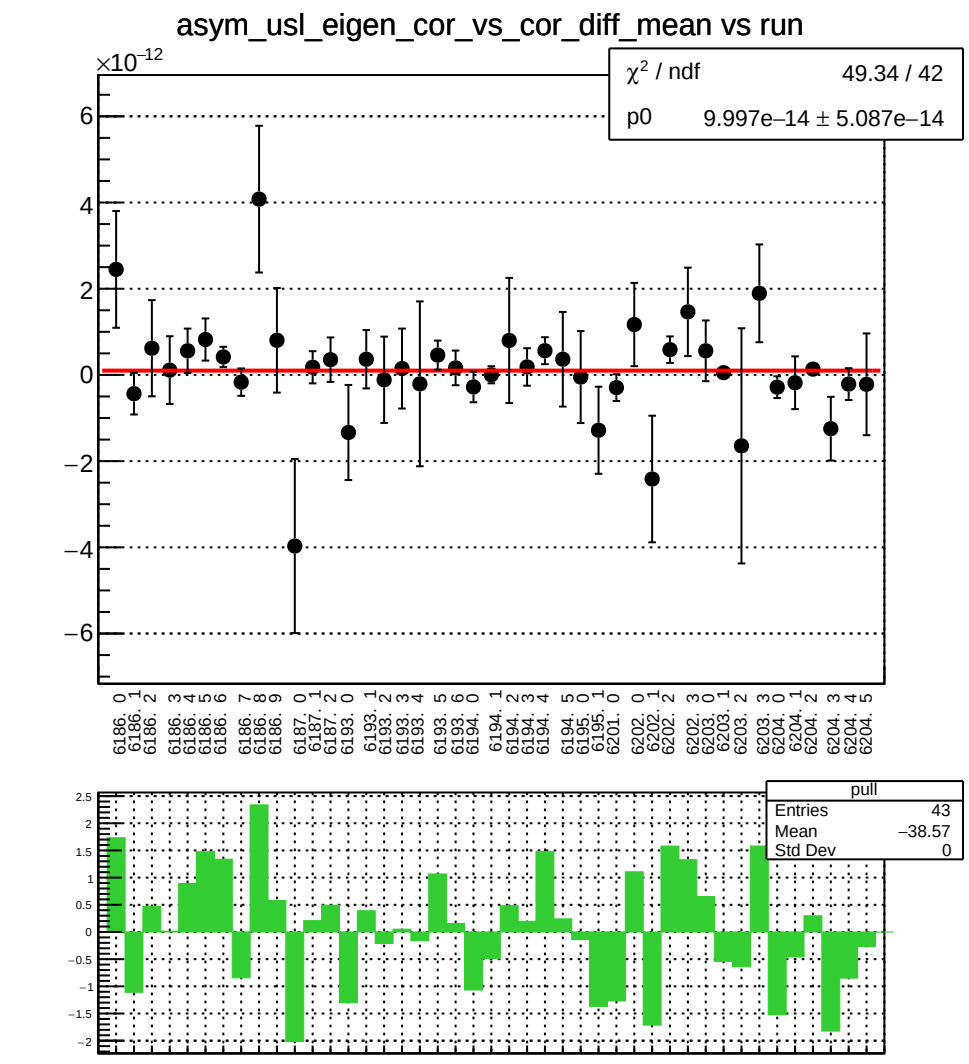

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.924e+04 / 42
p0 37.21 ± 0.04308
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

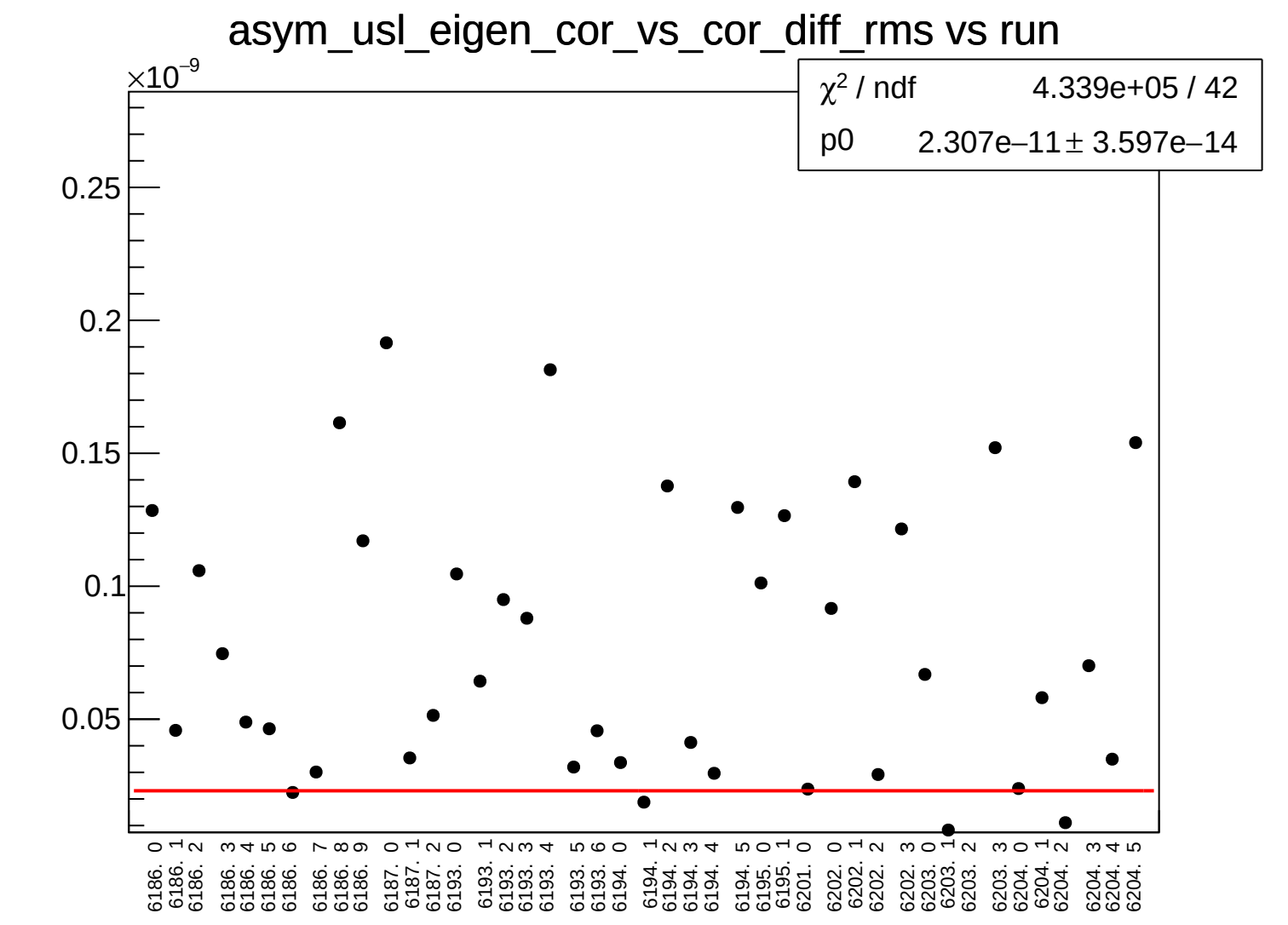

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.66 / 42
p0 0.04529 ± 0.06092
pull
Entries 43
Mean 59.7
Std Dev 0
pull1D
Entries 43
Mean 0.02323
Std Dev 1.106

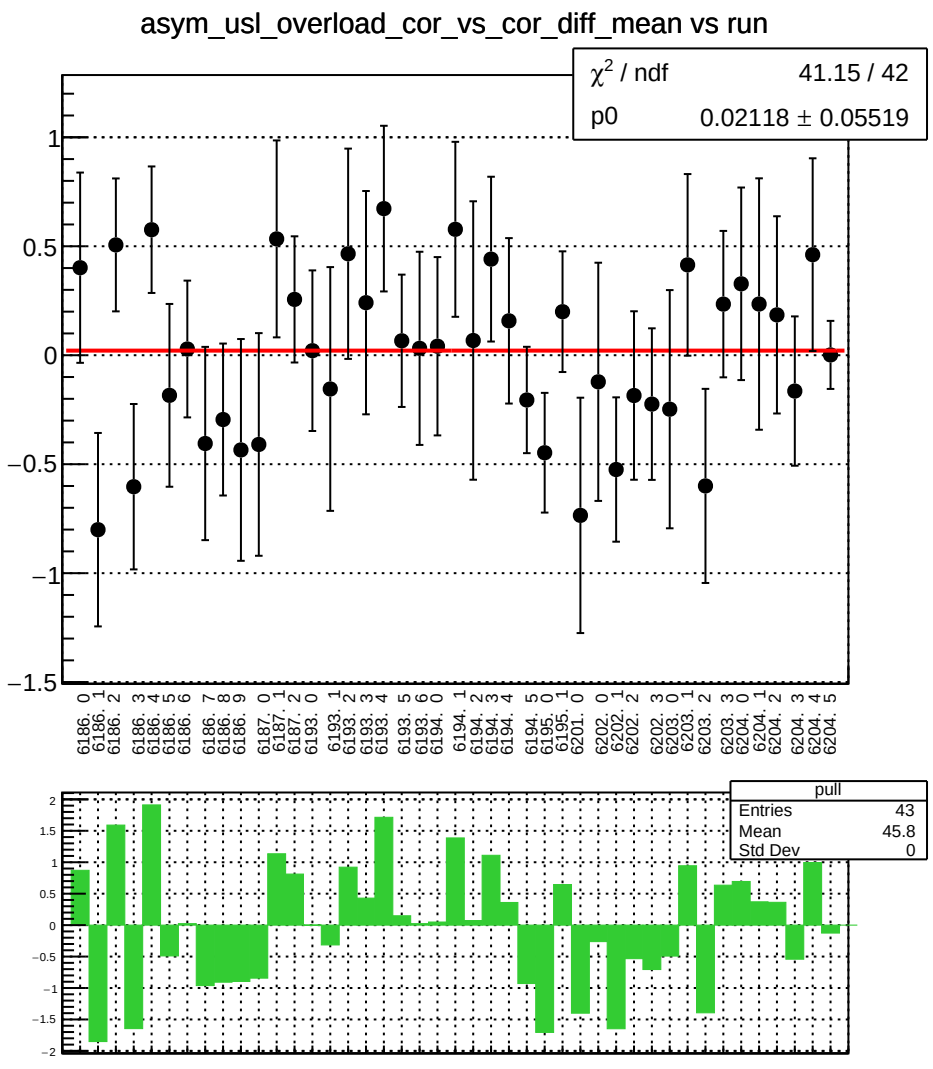

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.924e+04 / 42
p0 37.21 ± 0.04308
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

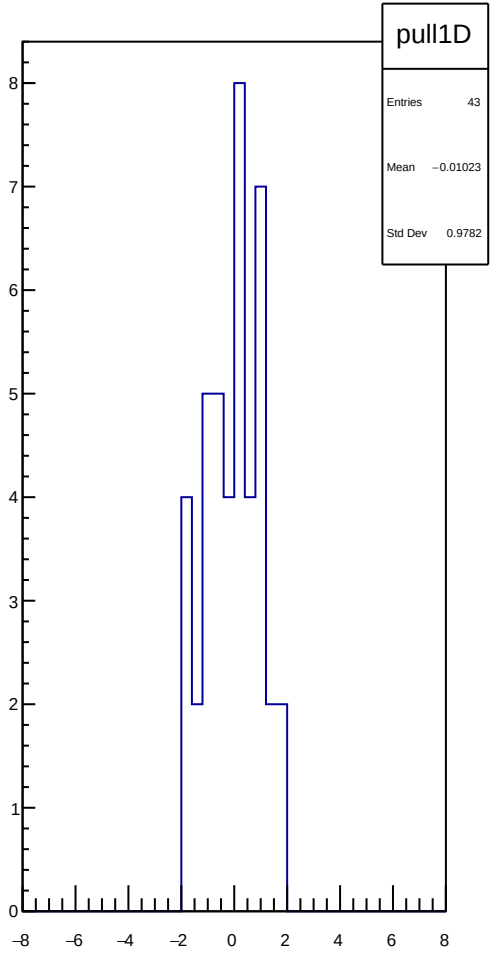

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 44.09 / 42
p0 0.03719 ± 0.09027
pull
Entries 43
Mean 68.71
Std Dev 0
pull1D
Entries 43
Mean 0.01799
Std Dev 1.012

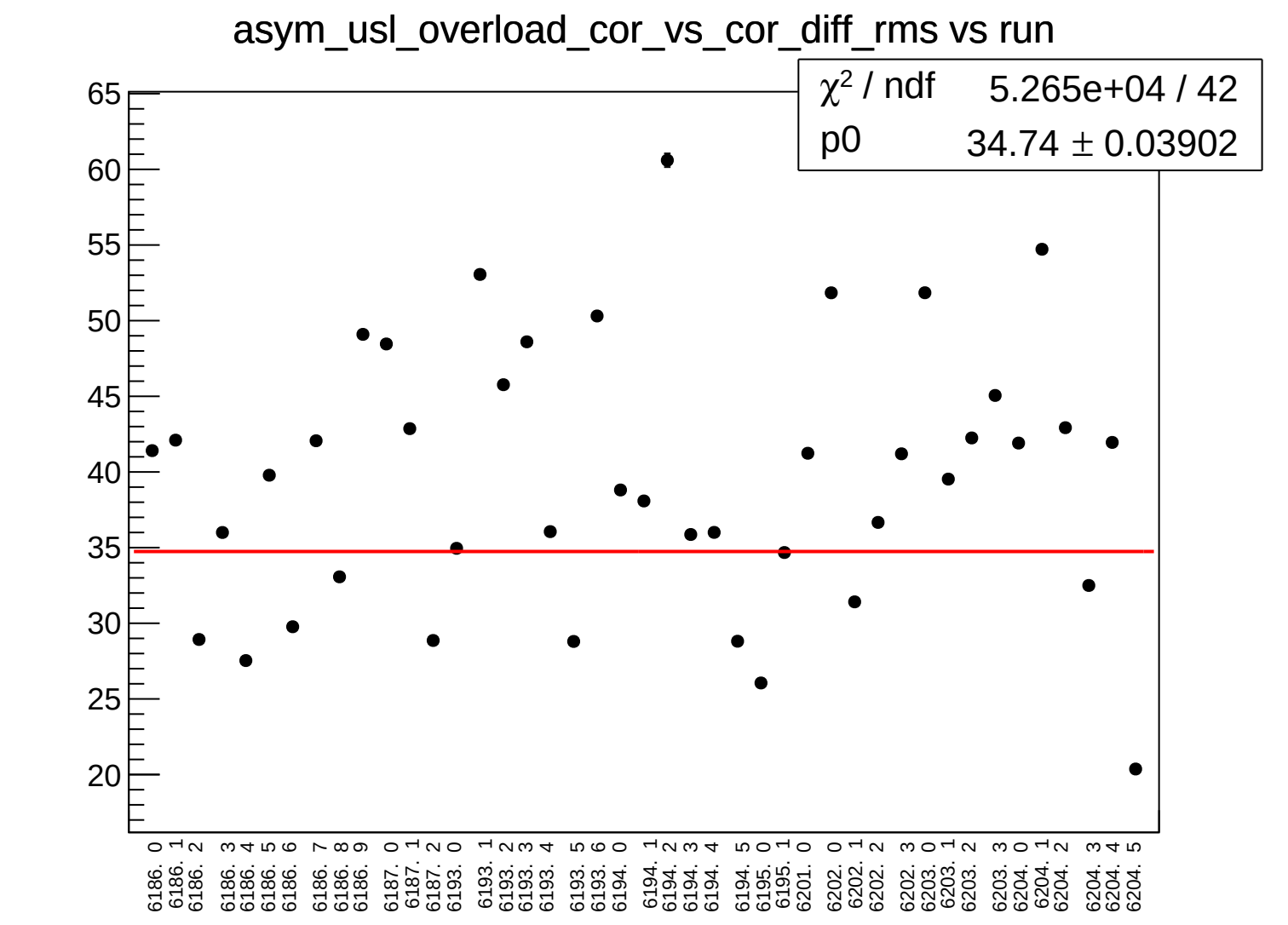

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.18e+04 / 42
p0 57.57 ± 0.06383
100
90
80
70
60
50
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

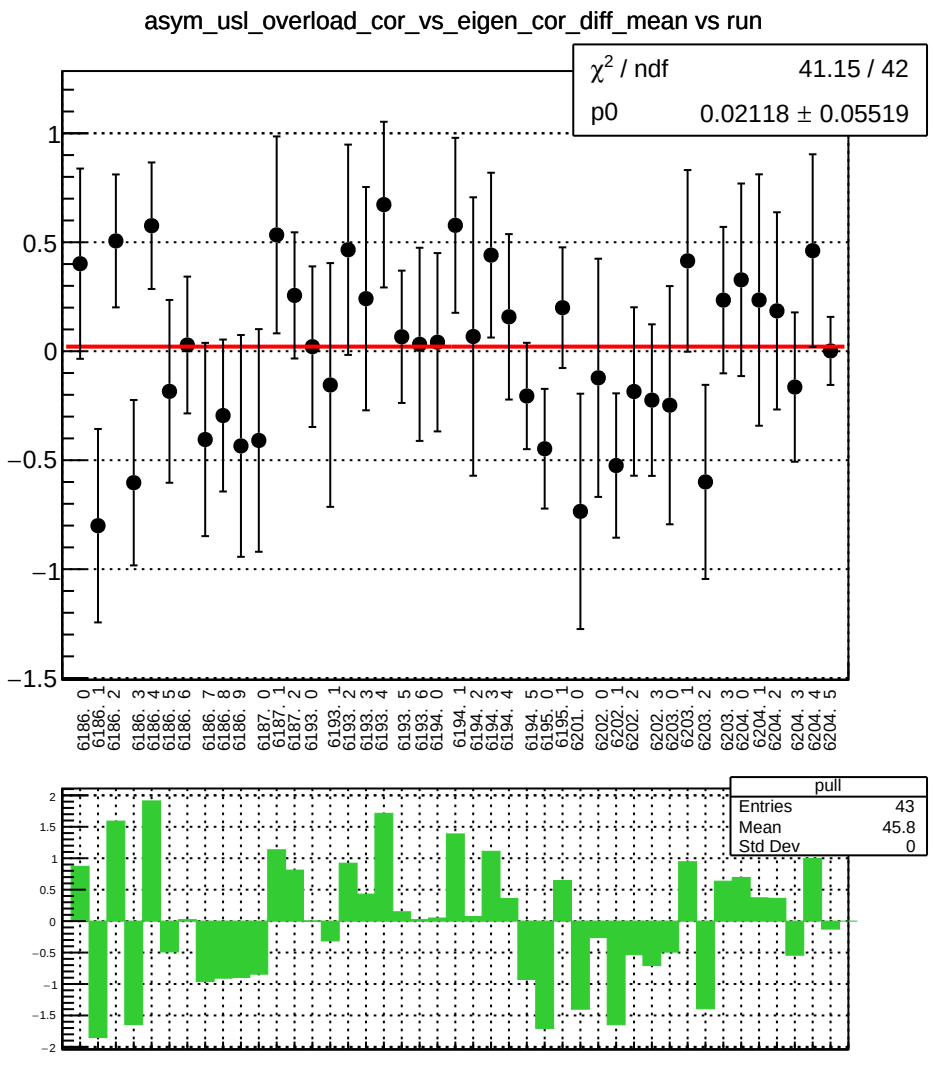

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 49.34 / 42
p0 9.997e−14 ± 5.087e−14
6
4
2
0
−2
−4
−6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −38.57
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.05474
Std Dev 1.07
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

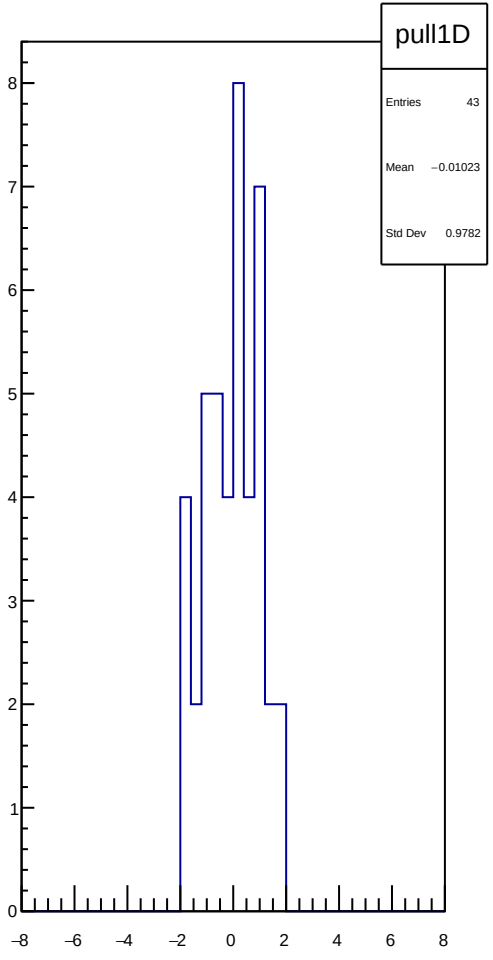

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.339e+05 / 42
p0 2.307e−11 ± 3.597e−14
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

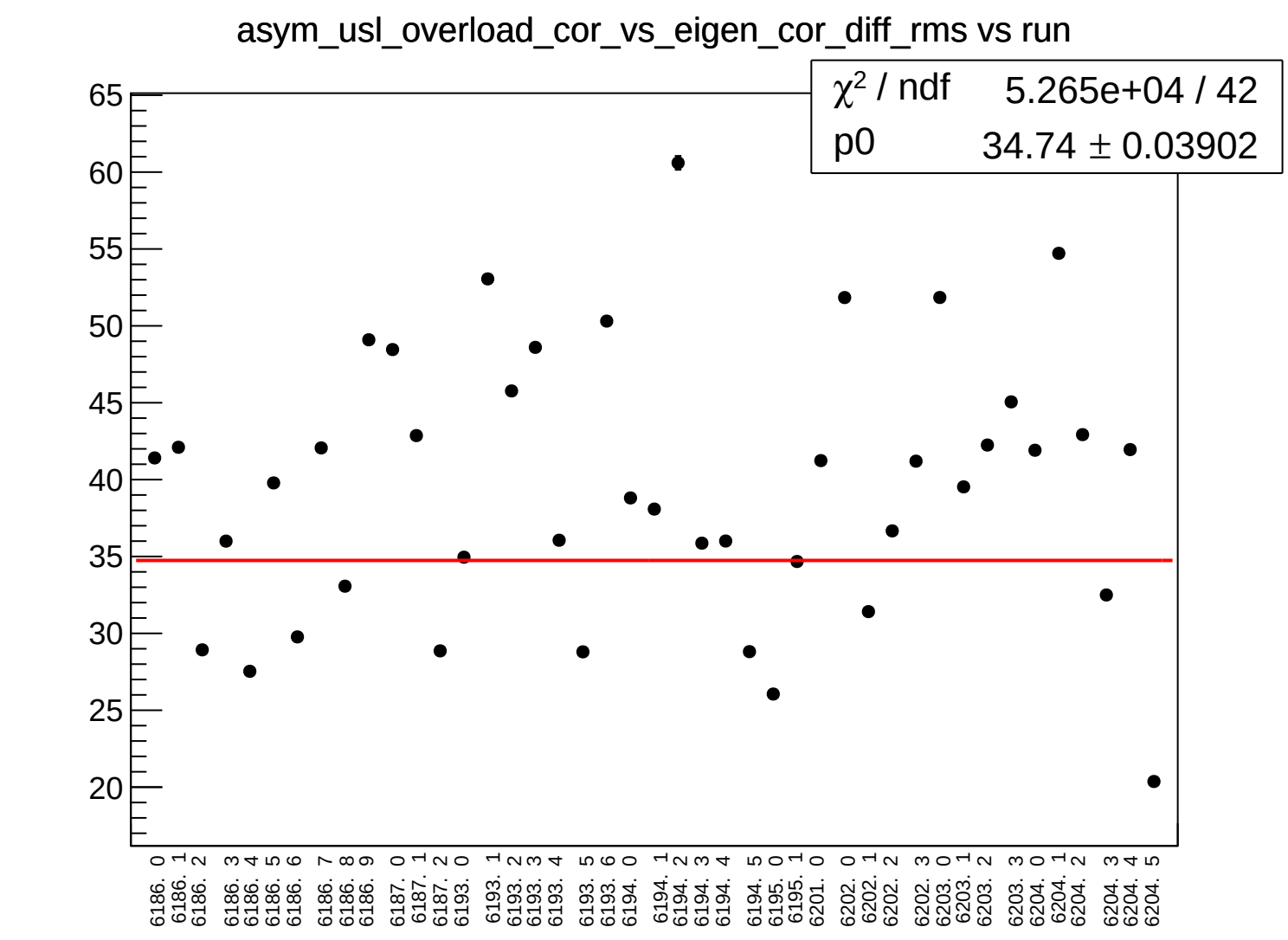

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 41.15 / 42
p0 0.02118 ± 0.05519
pull
Entries 43
Mean 45.8
Std Dev 0

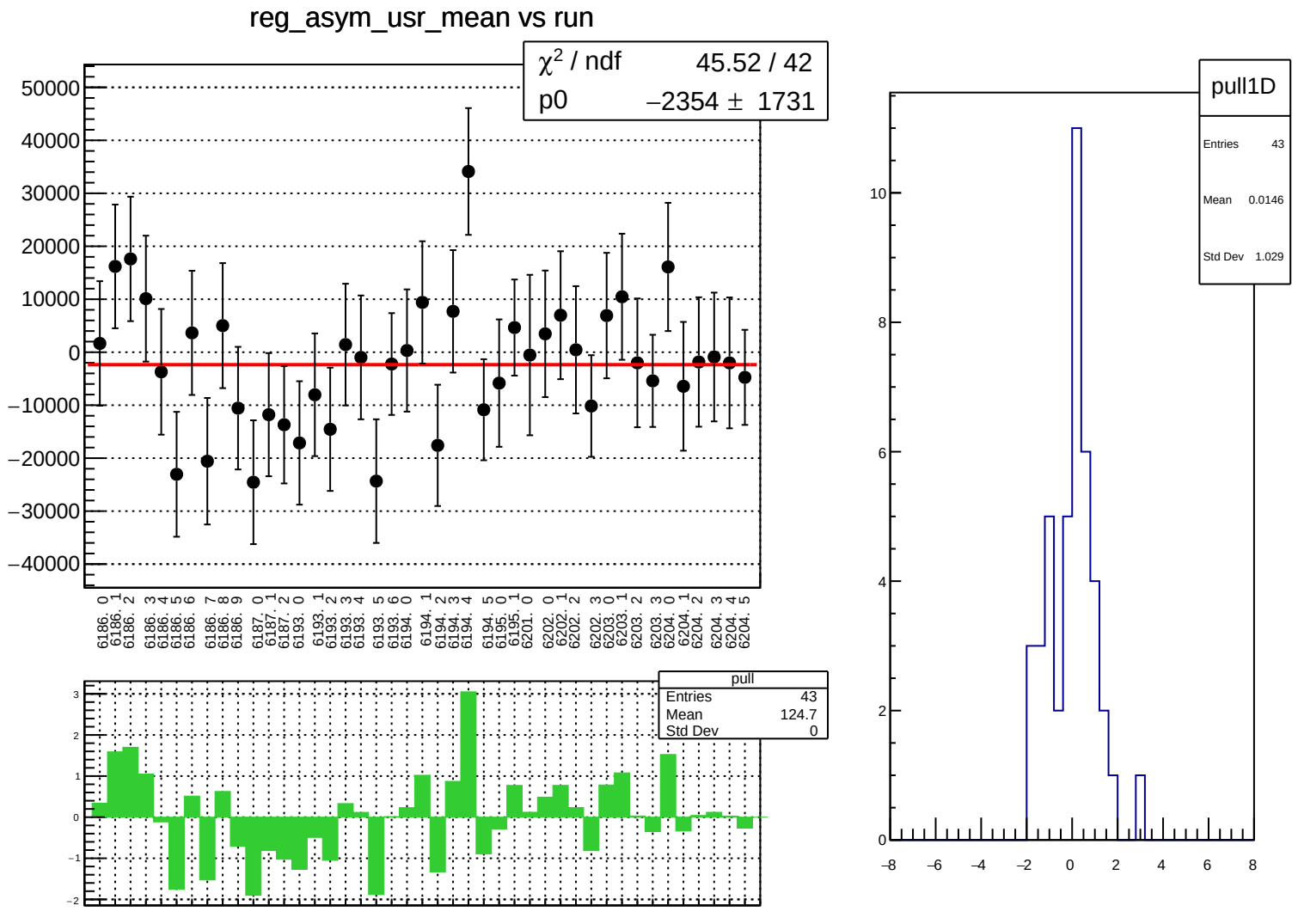

pull1D
Entries 43
Mean −0.01023
Std Dev 0.9782

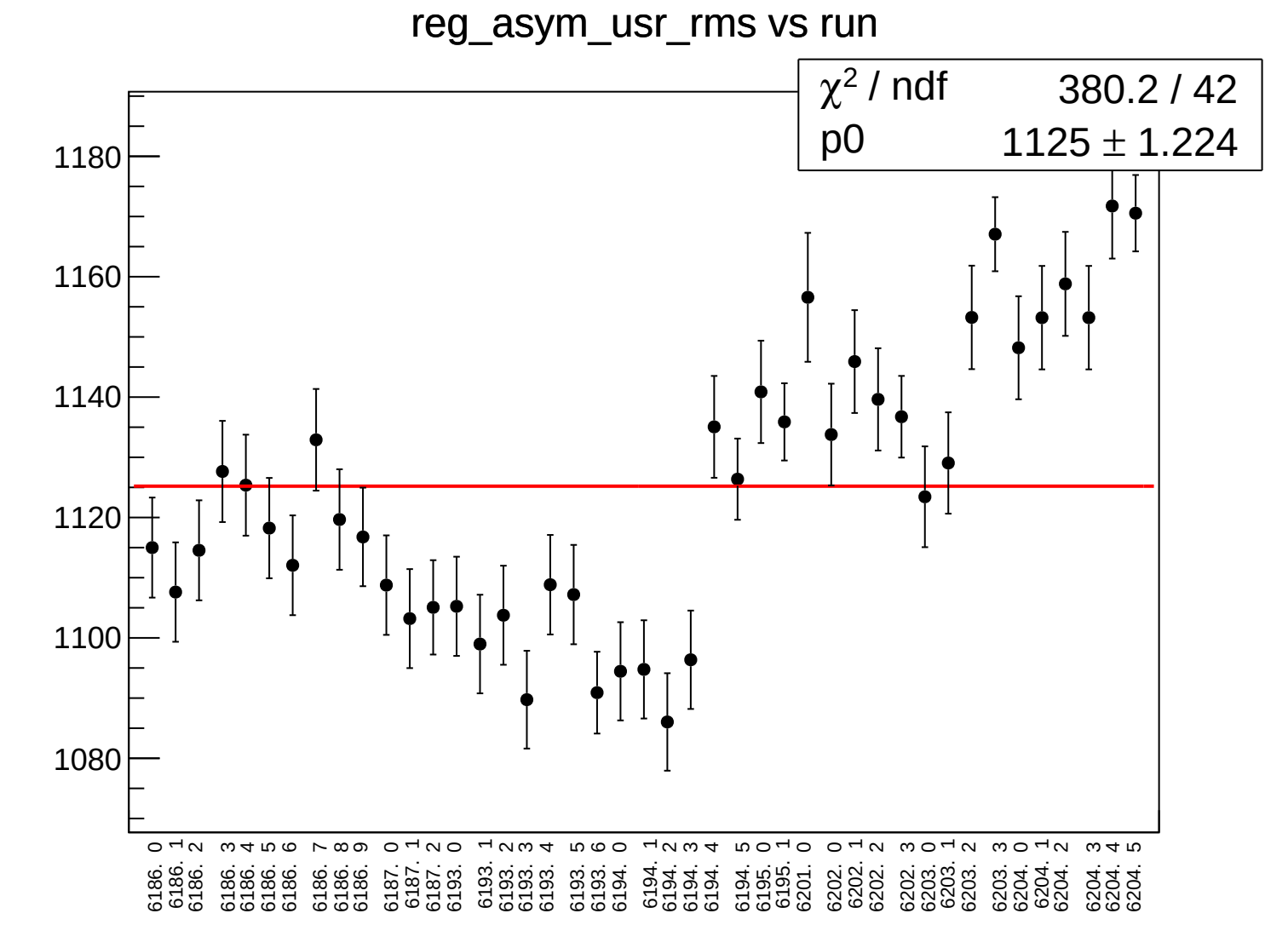

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 5.265e+04 / 42
p0 34.74 ± 0.03902
65
60
55
50
45
40
35
30
25
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

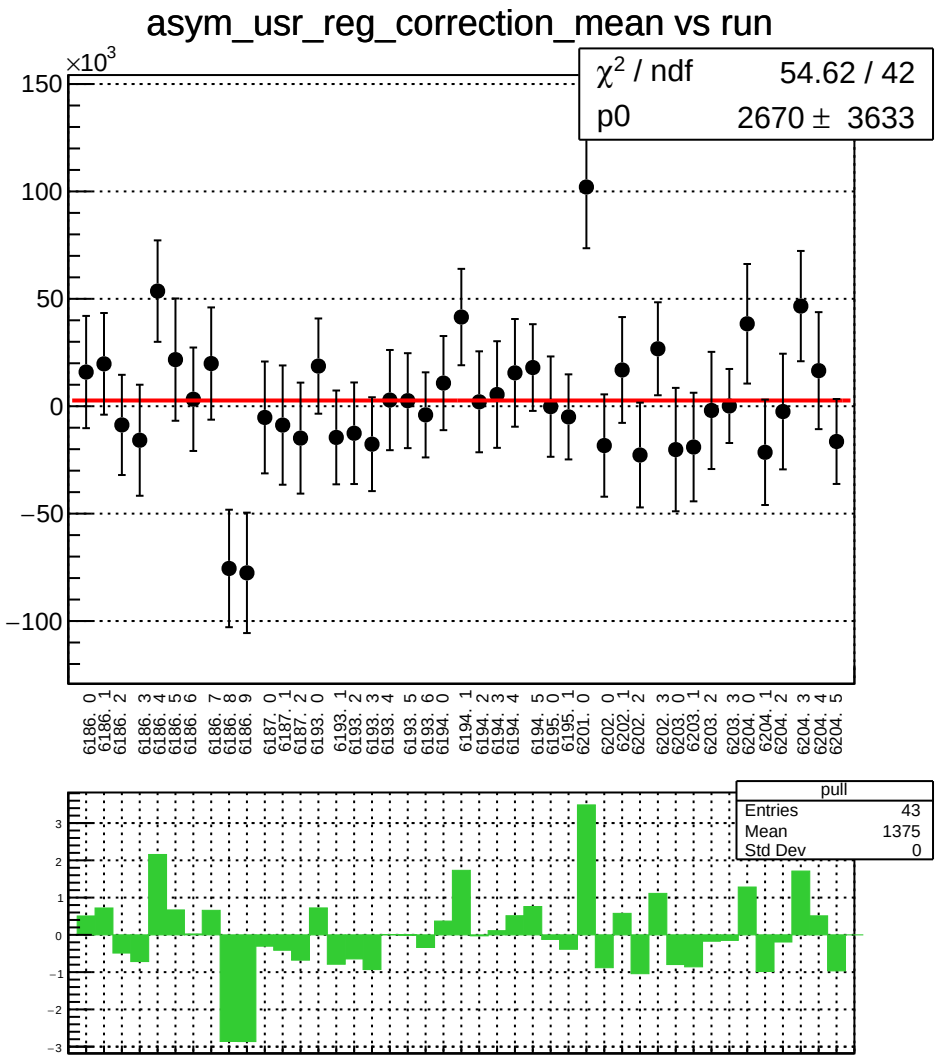

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.15 / 42
p0 0.02118 ± 0.05519
pull
Entries 43
Mean 45.8
Std Dev 0


pull1D
Entries 43
Mean −0.01023
Std Dev 0.9782


asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.265e+04 / 42
p0 34.74 ± 0.03902
65
60
55
50
45
40
35
30
25
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_usr_mean vs run
χ² / ndf 45.52 / 42
p0 −2354 ± 1731
pull
Entries 43
Mean 124.7
Std Dev 0
pull1D
Entries 43
Mean 0.0146
Std Dev 1.029


reg_asym_usr_rms vs run
χ² / ndf 380.2 / 42
p0 1125 ± 1.224
1180
1160
1140
1120
1100
1080
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 54.62 / 42
p0 2670 ± 3633
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1375
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.0009887
Std Dev 1.127
9
8
7
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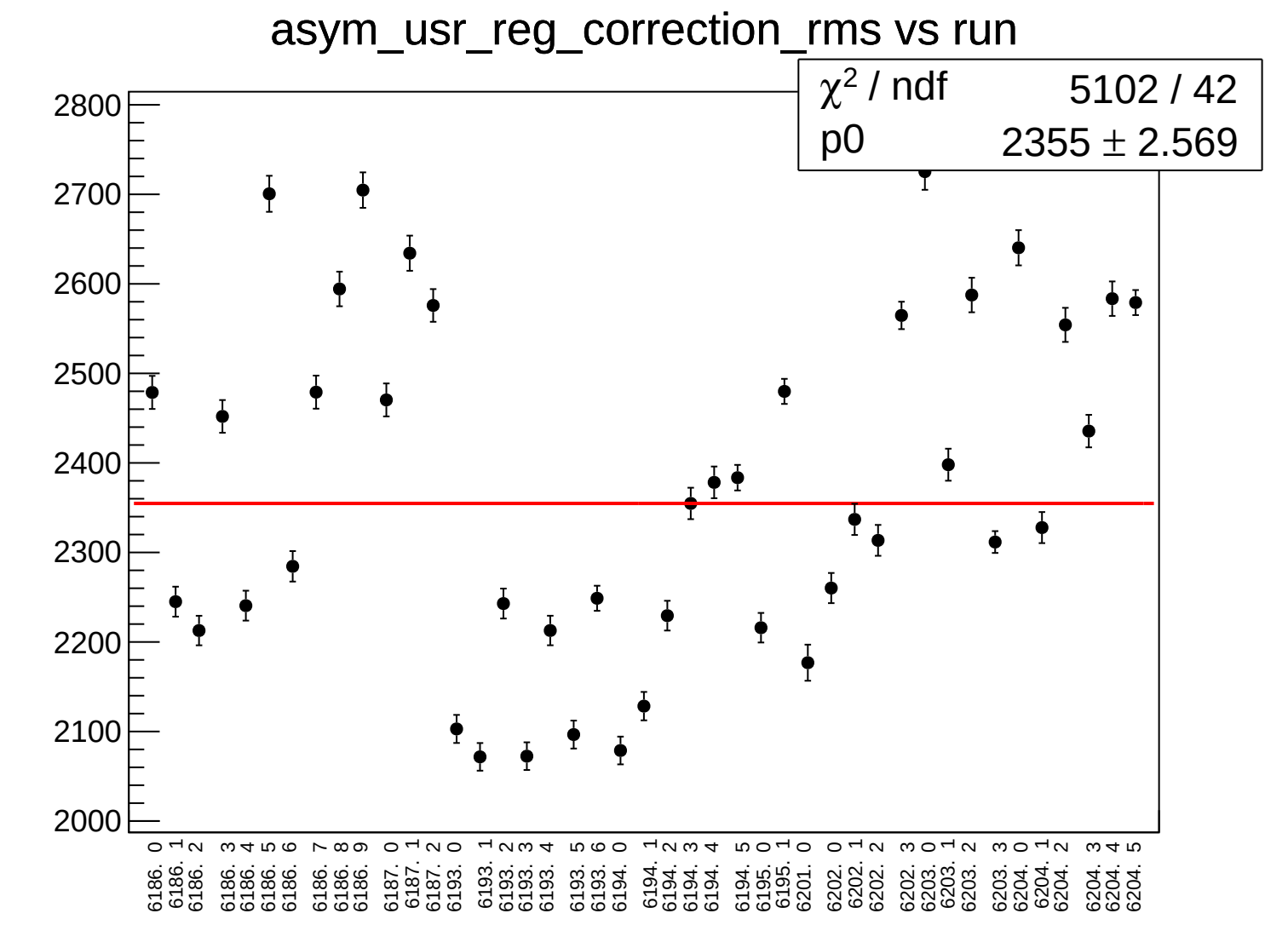
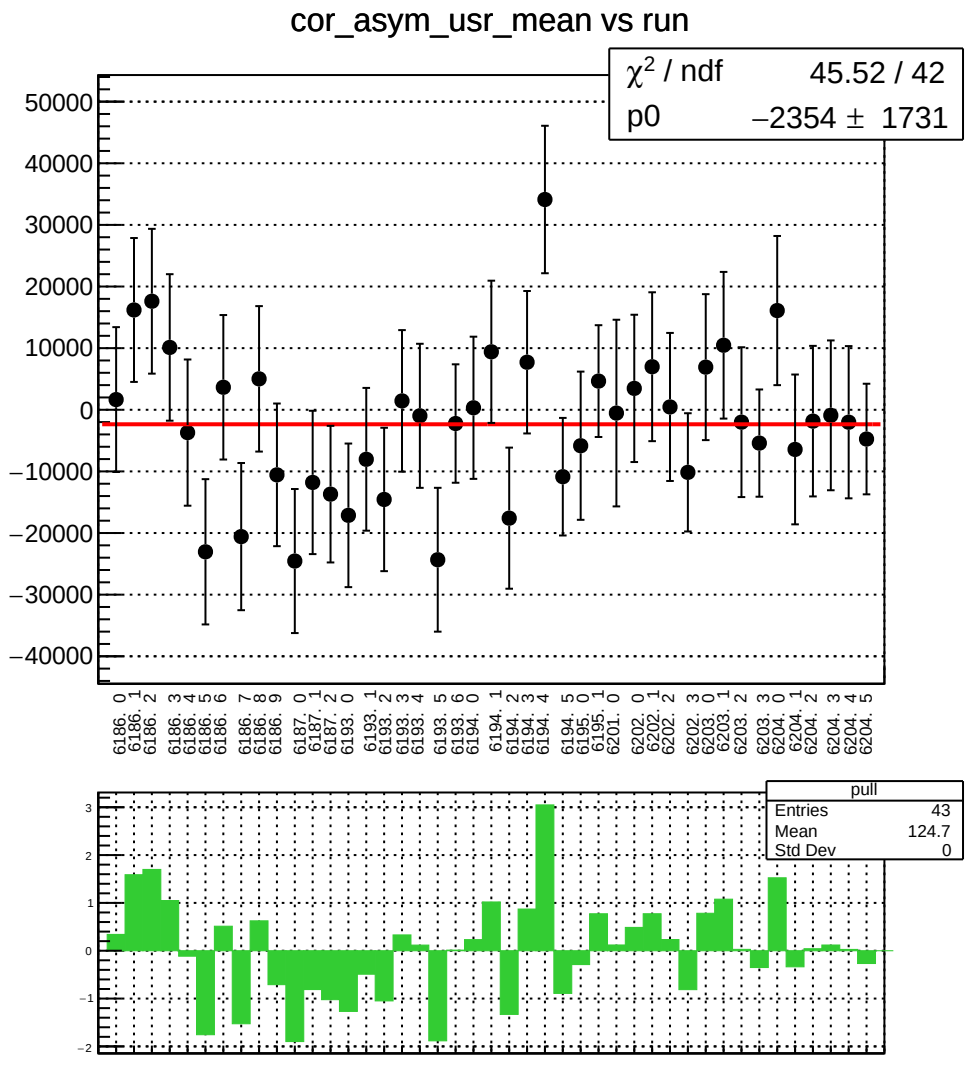
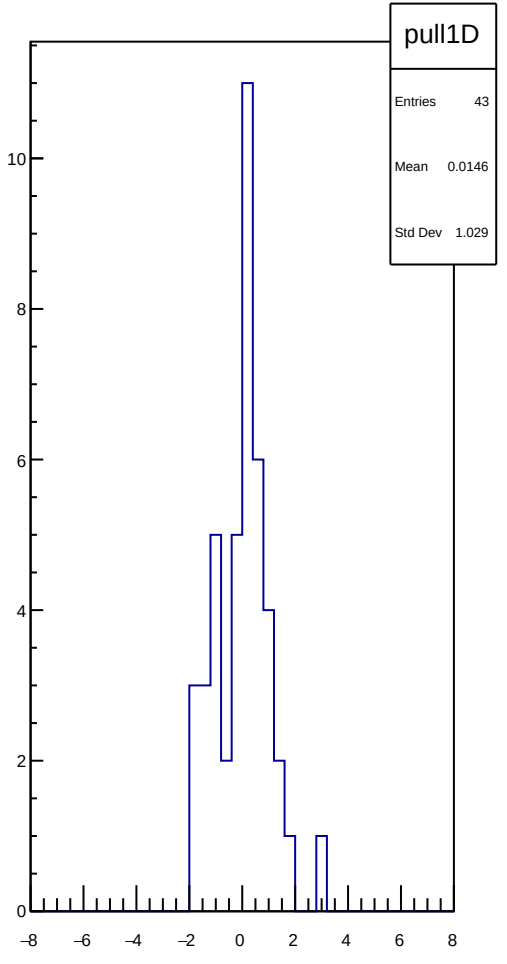
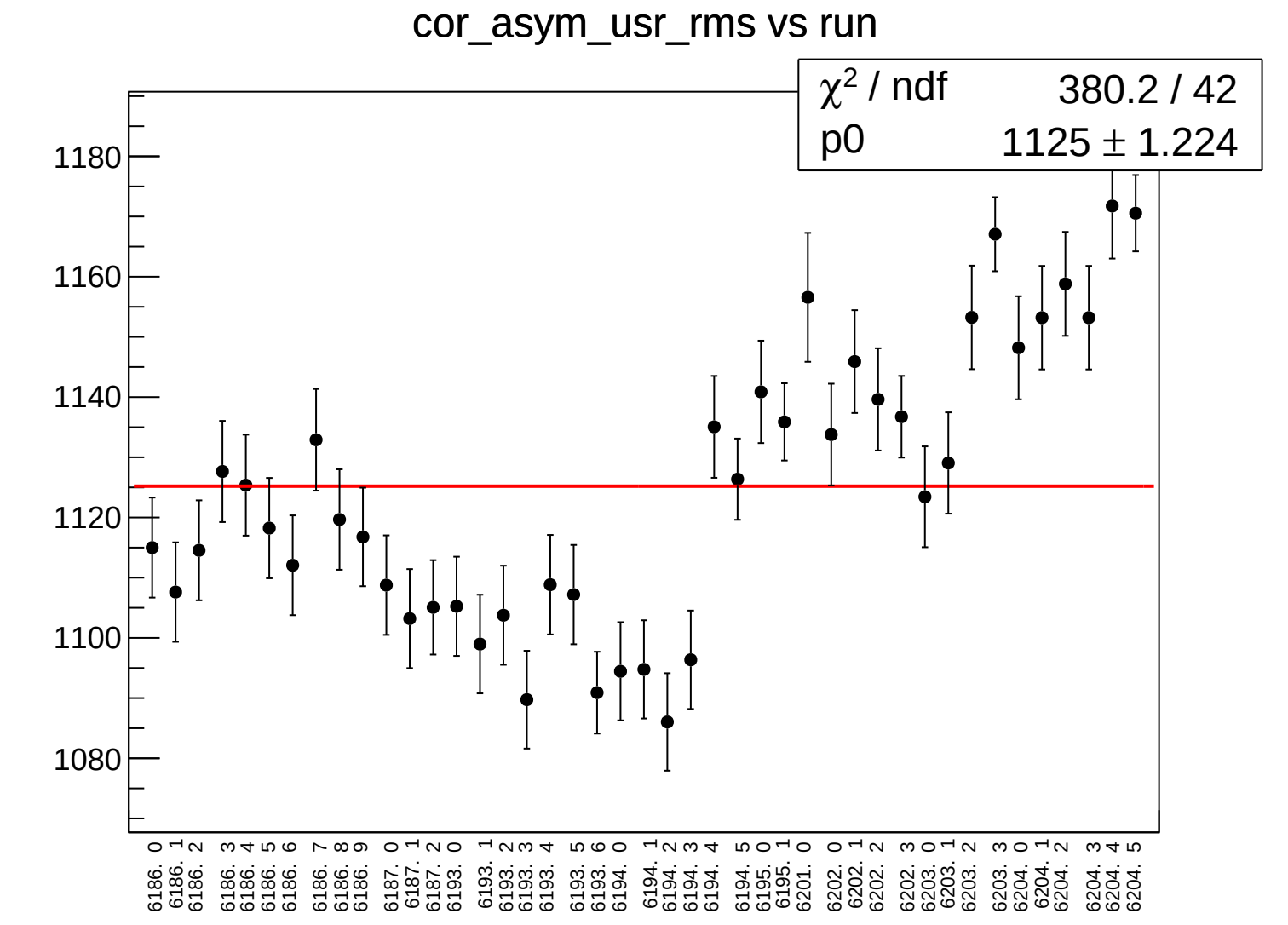
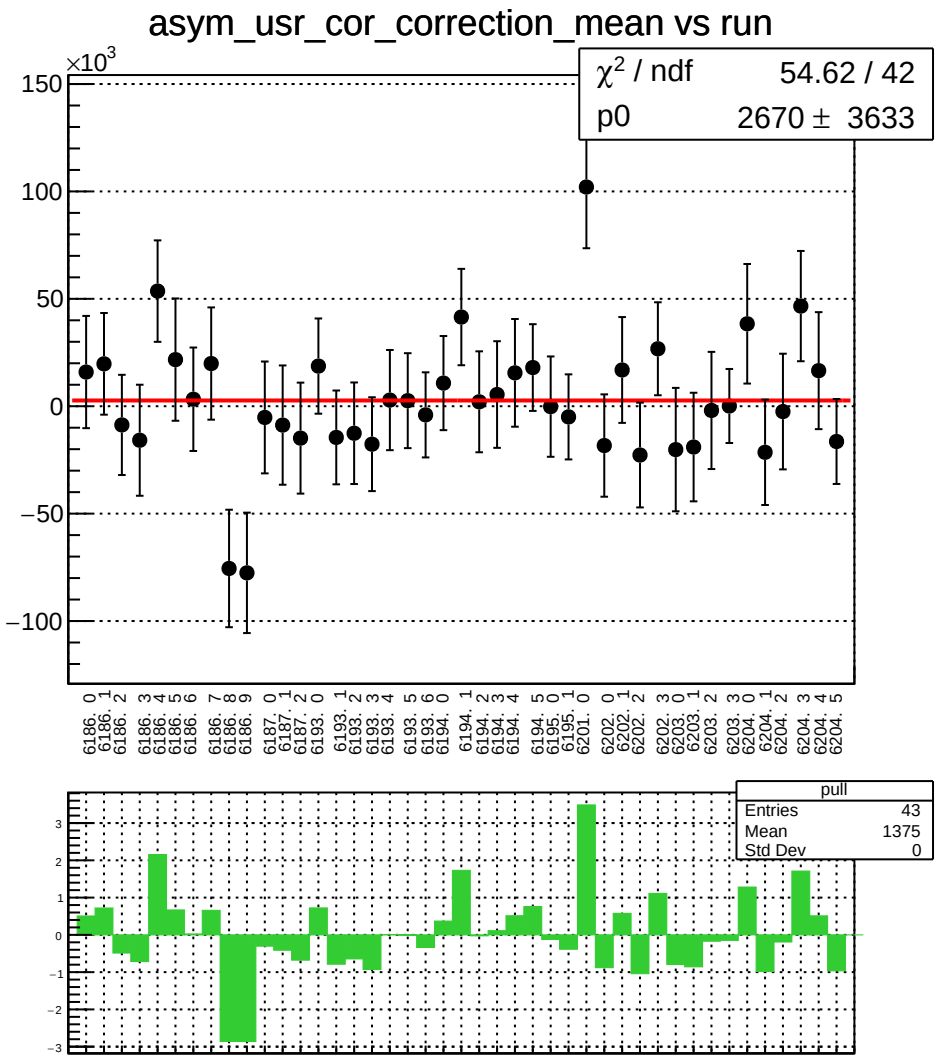
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

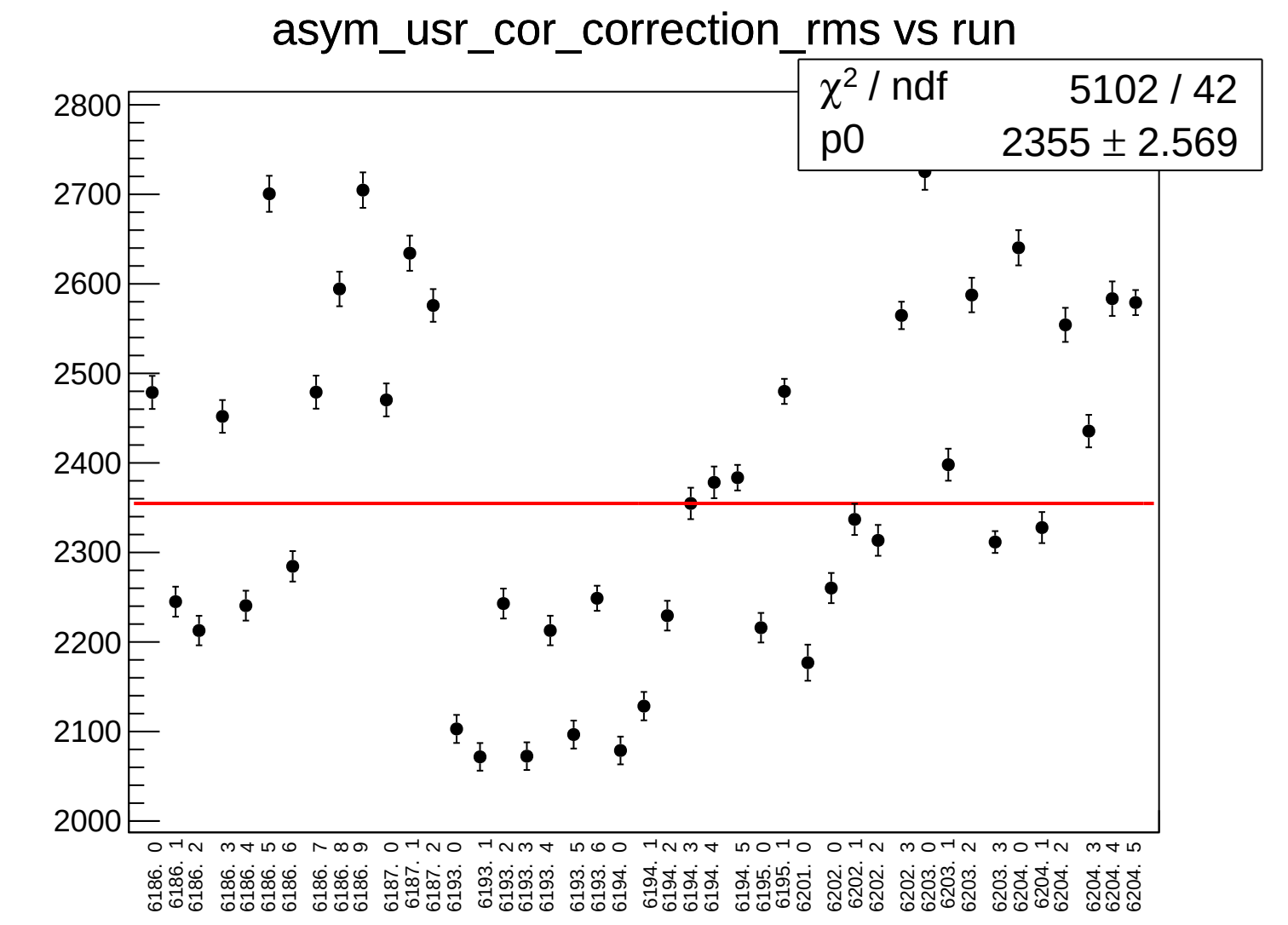

asym_usr_reg_correction_rms vs run
χ² / ndf 5102 / 42
p0 2355 ± 2.569
2800
2700
2600
2500
2400
2300
2200
2100
2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

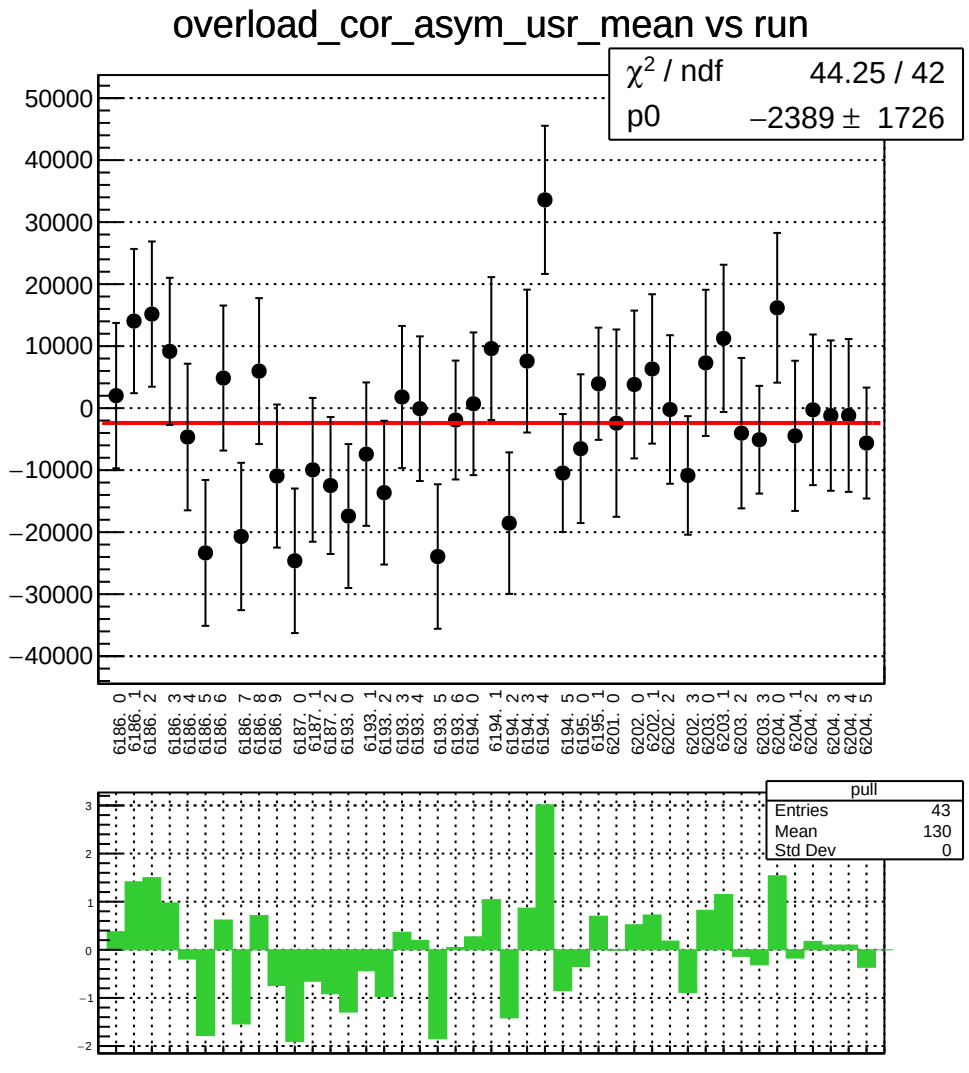

cor_asym_usr_mean vs run
χ² / ndf 45.52 / 42
p0 −2354 ± 1731
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 124.7
Std Dev 0
3
2
1
0
−1
−2

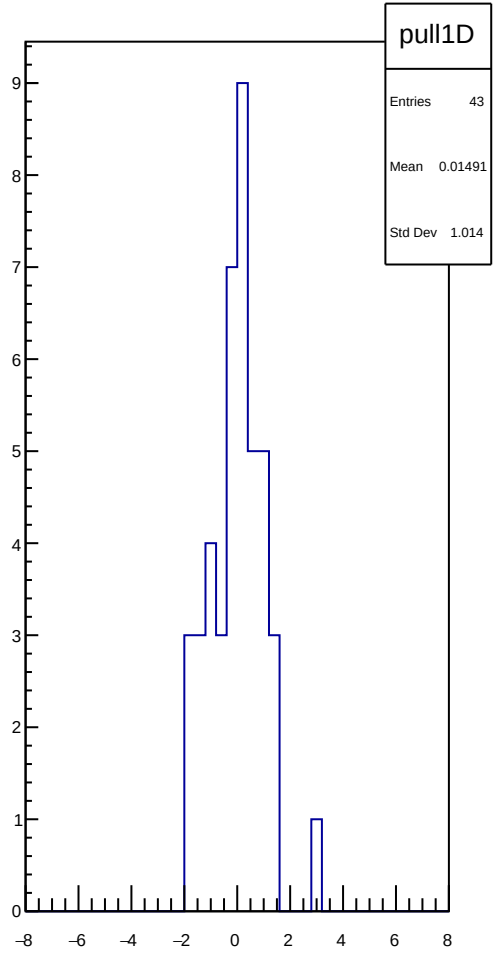

pull1D
Entries 43
Mean 0.0146
Std Dev 1.029
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

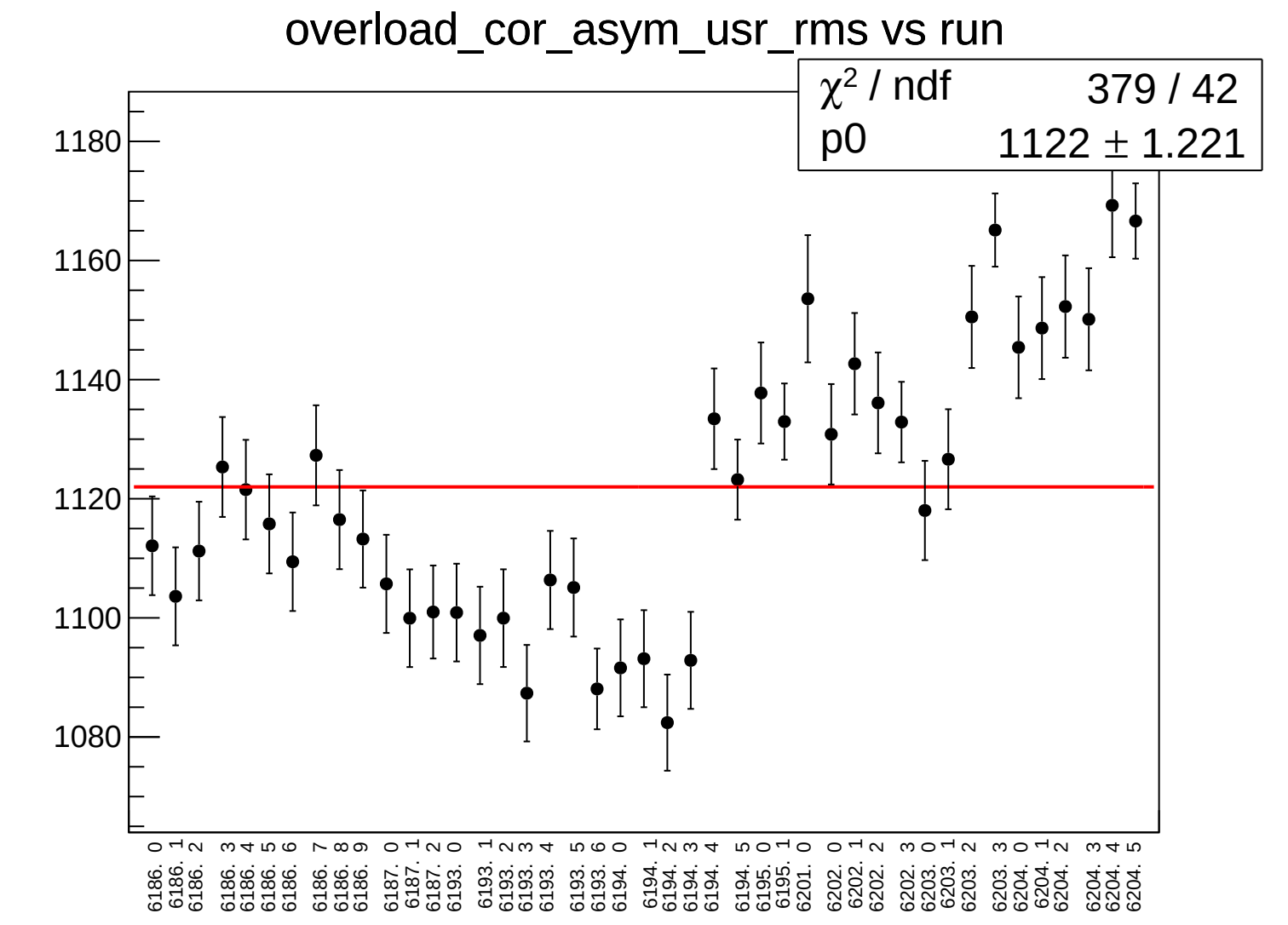

cor_asym_usr_rms vs run
χ² / ndf 380.2 / 42
p0 1125 ± 1.224
1180
1160
1140
1120
1100
1080
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

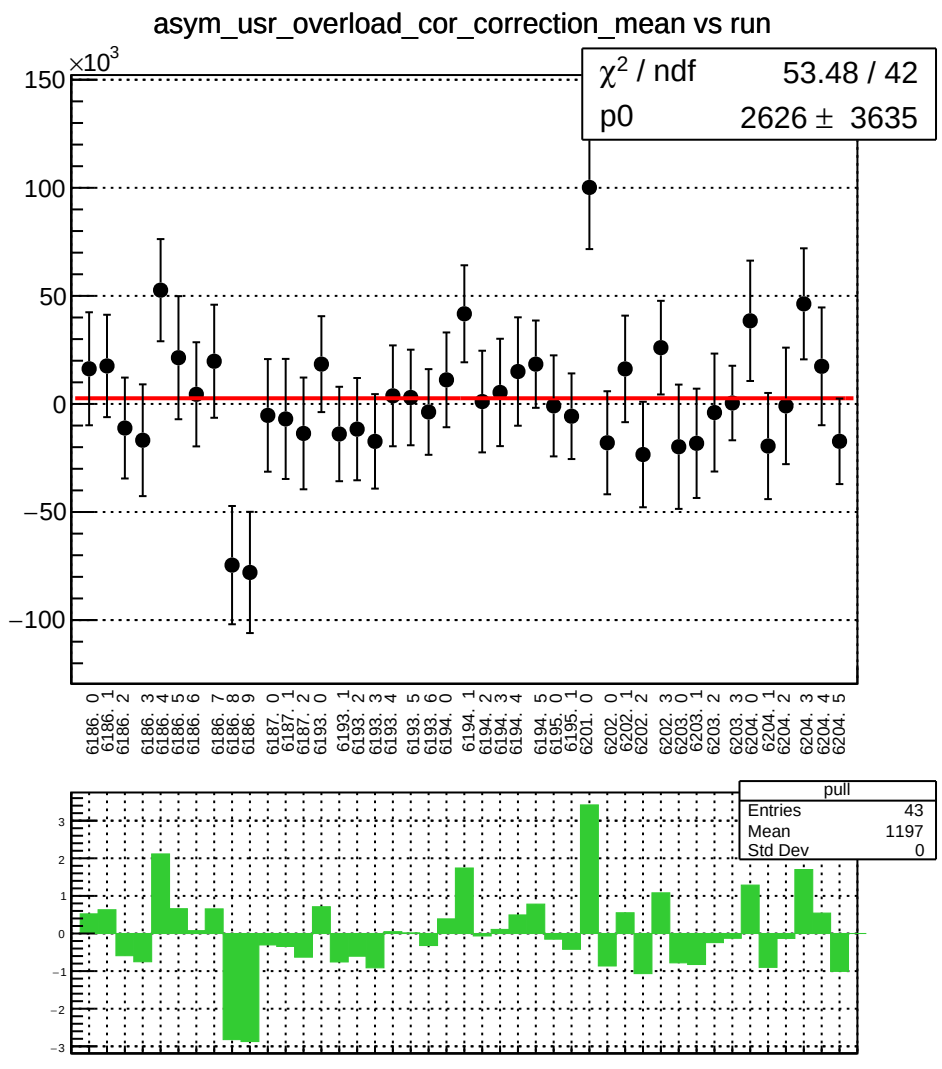

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 54.62 / 42
p0 2670 ± 3633
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1375
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.0009887
Std Dev 1.127
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

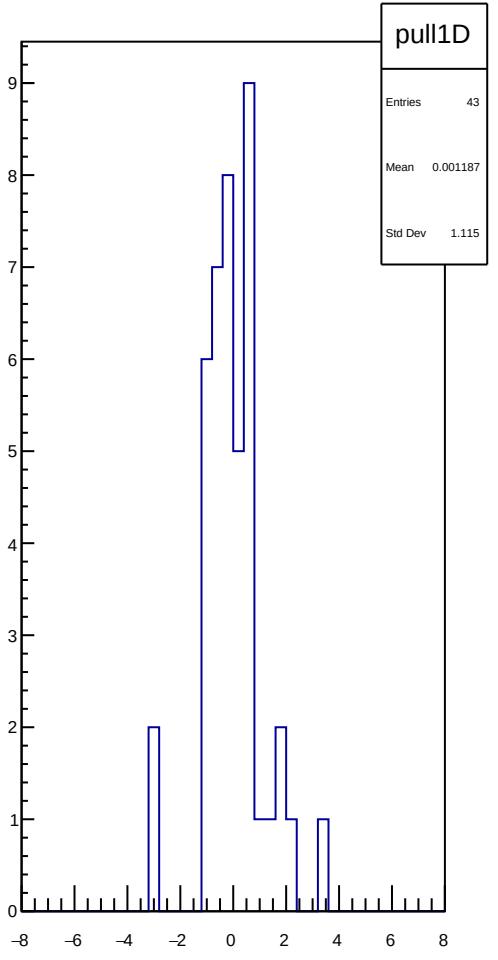

asym_usr_cor_correction_rms vs run
χ² / ndf 5102 / 42
p0 2355 ± 2.569
2800
2700
2600
2500
2400
2300
2200
2100
2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

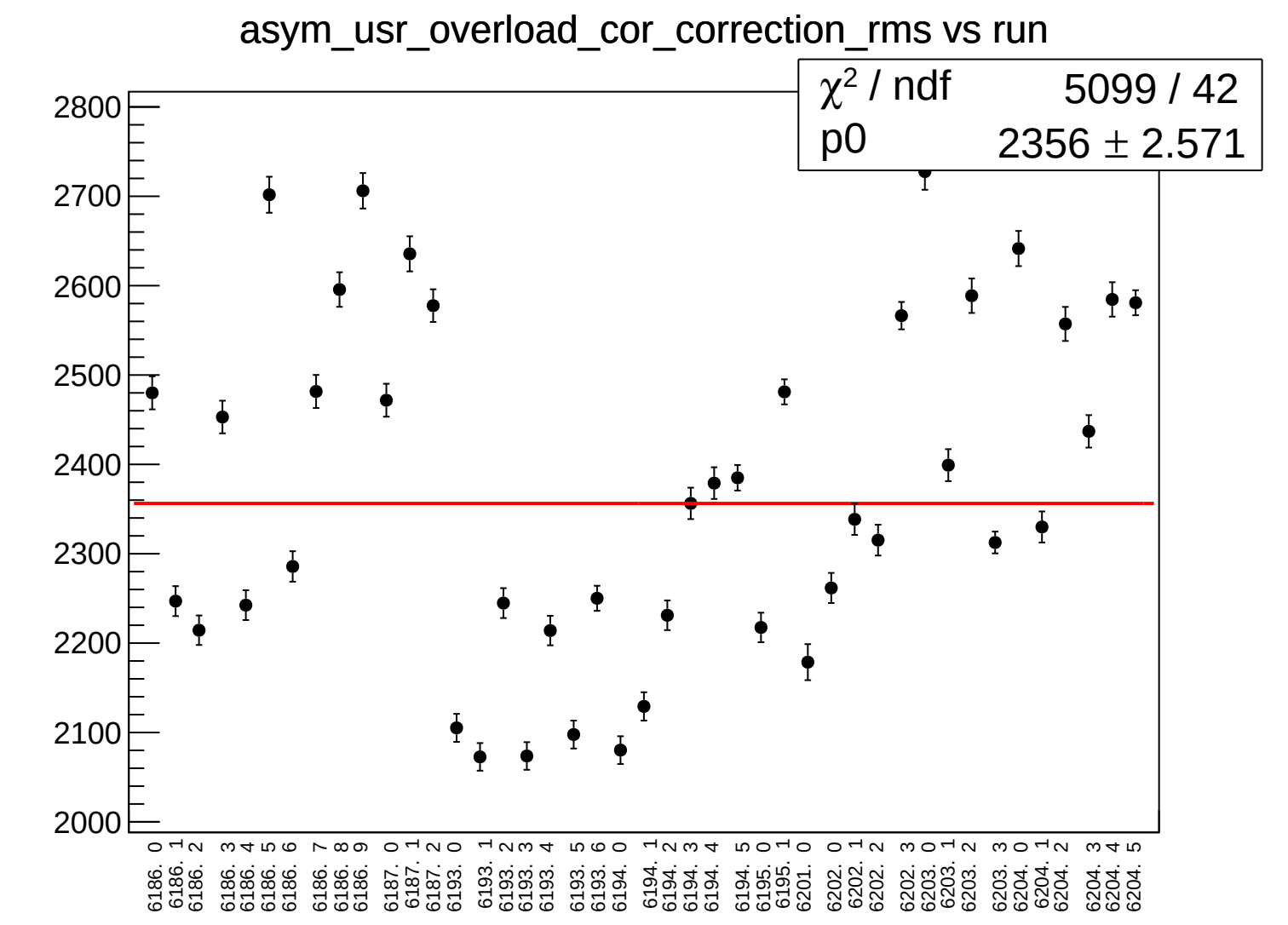

overload_cor_asym_usr_mean vs run
χ² / ndf 44.25 / 42
p0 −2389 ± 1726
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 130
Std Dev 0
3
2
1
0
−1
−2

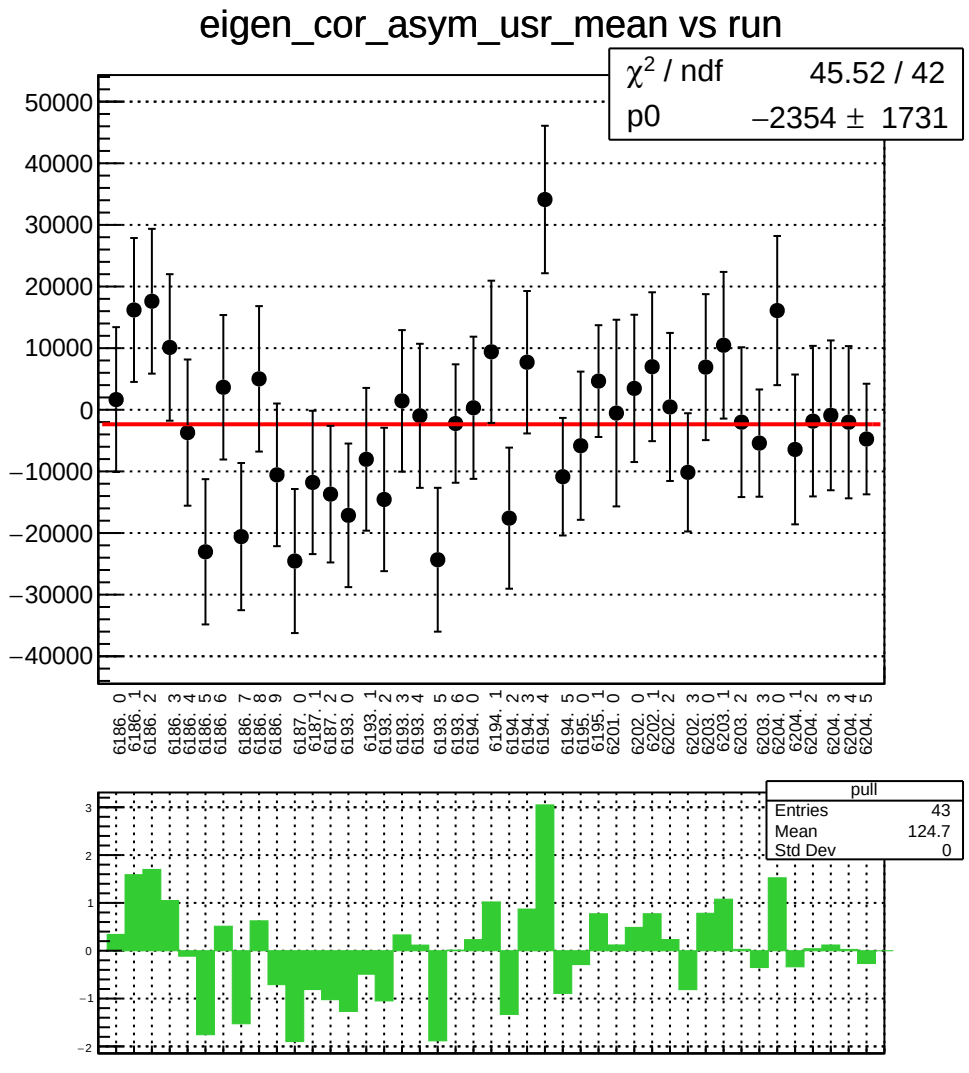

pull1D
Entries 43
Mean 0.01491
Std Dev 1.014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

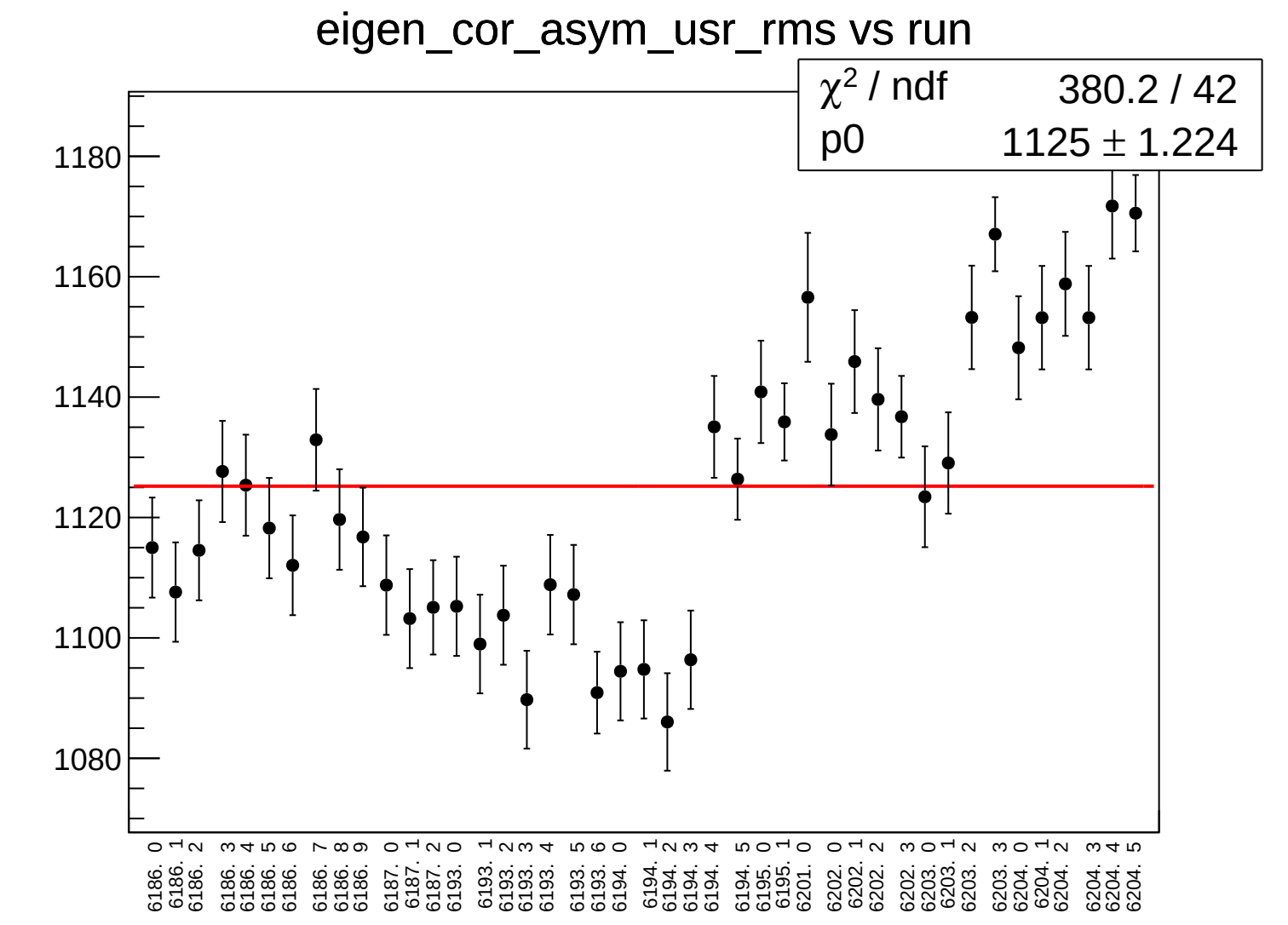

overload_cor_asym_usr_rms vs run
χ² / ndf 379 / 42
p0 1122 ± 1.221
1180
1160
1140
1120
1100
1080
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

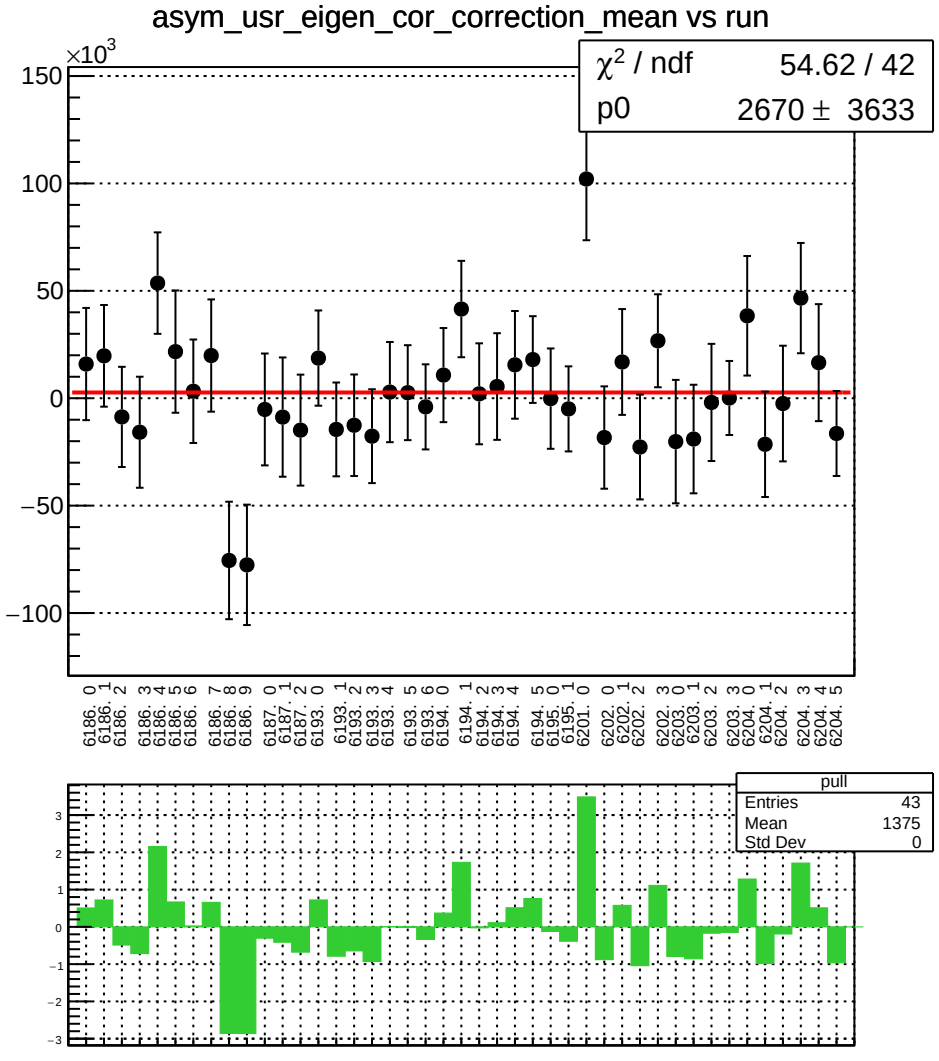

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 53.48 / 42
p0 2626 ± 3635
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1197
Std Dev 0
3
2
1
0
−1
−2
−3

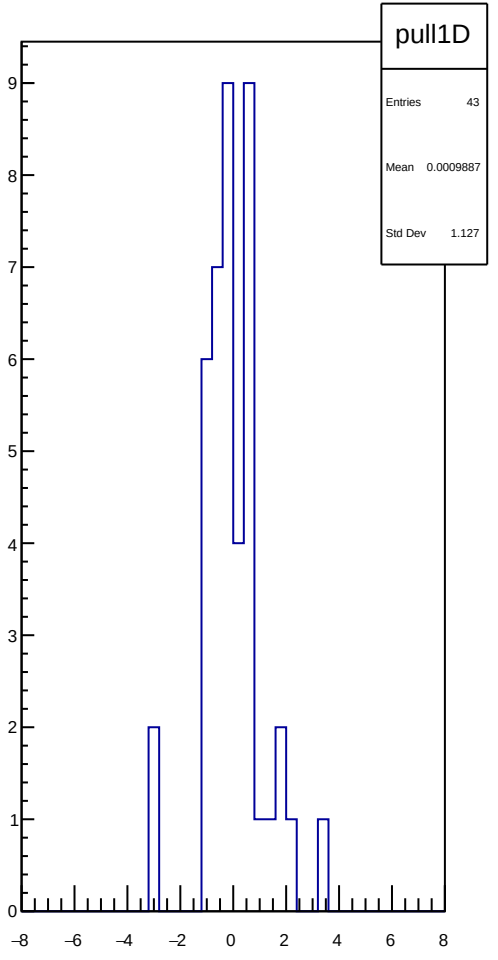

pull1D
Entries 43
Mean 0.001187
Std Dev 1.115
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

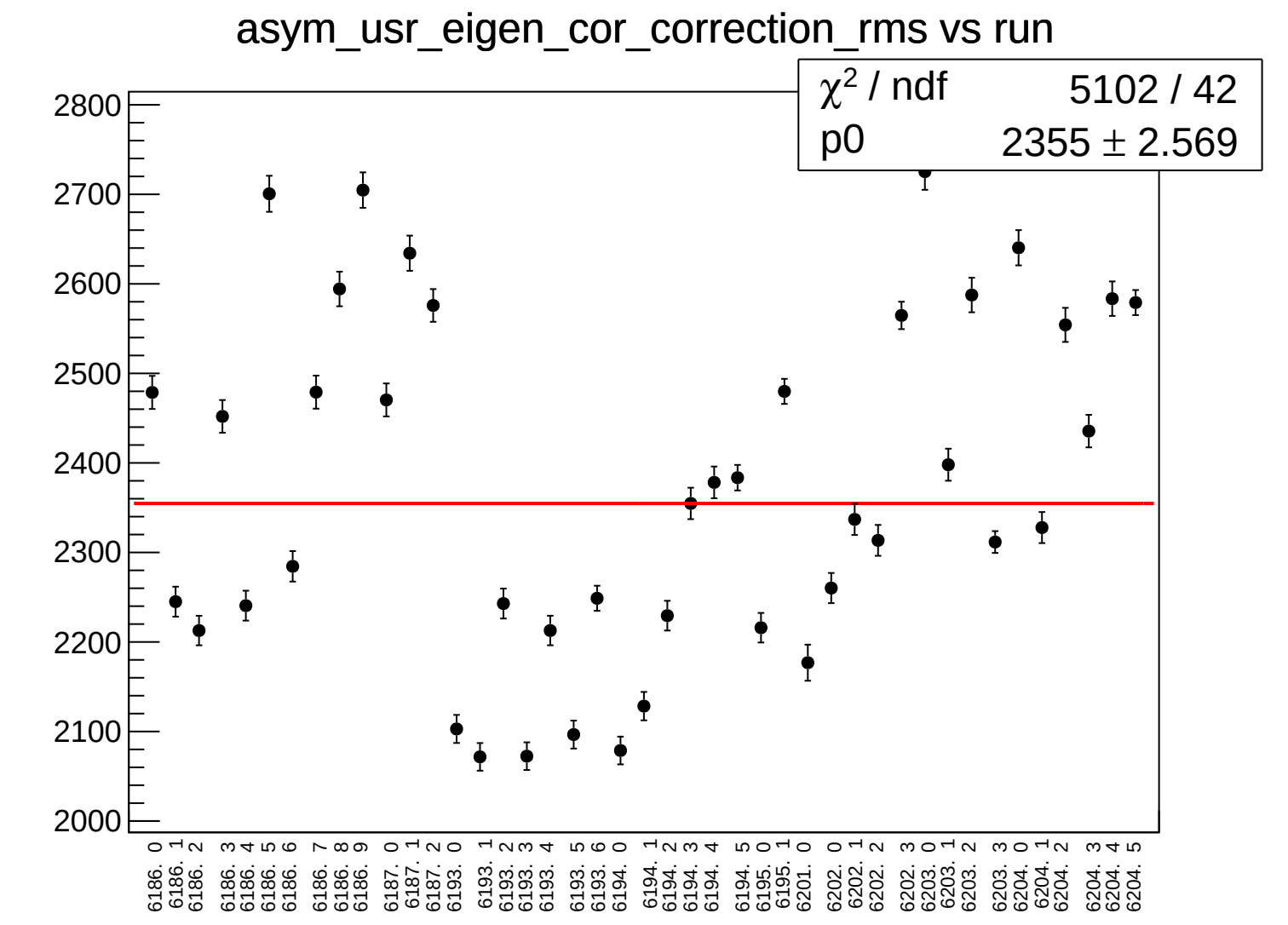

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 5099 / 42
p0 2356 ± 2.571
2800
2700
2600
2500
2400
2300
2200
2100
2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

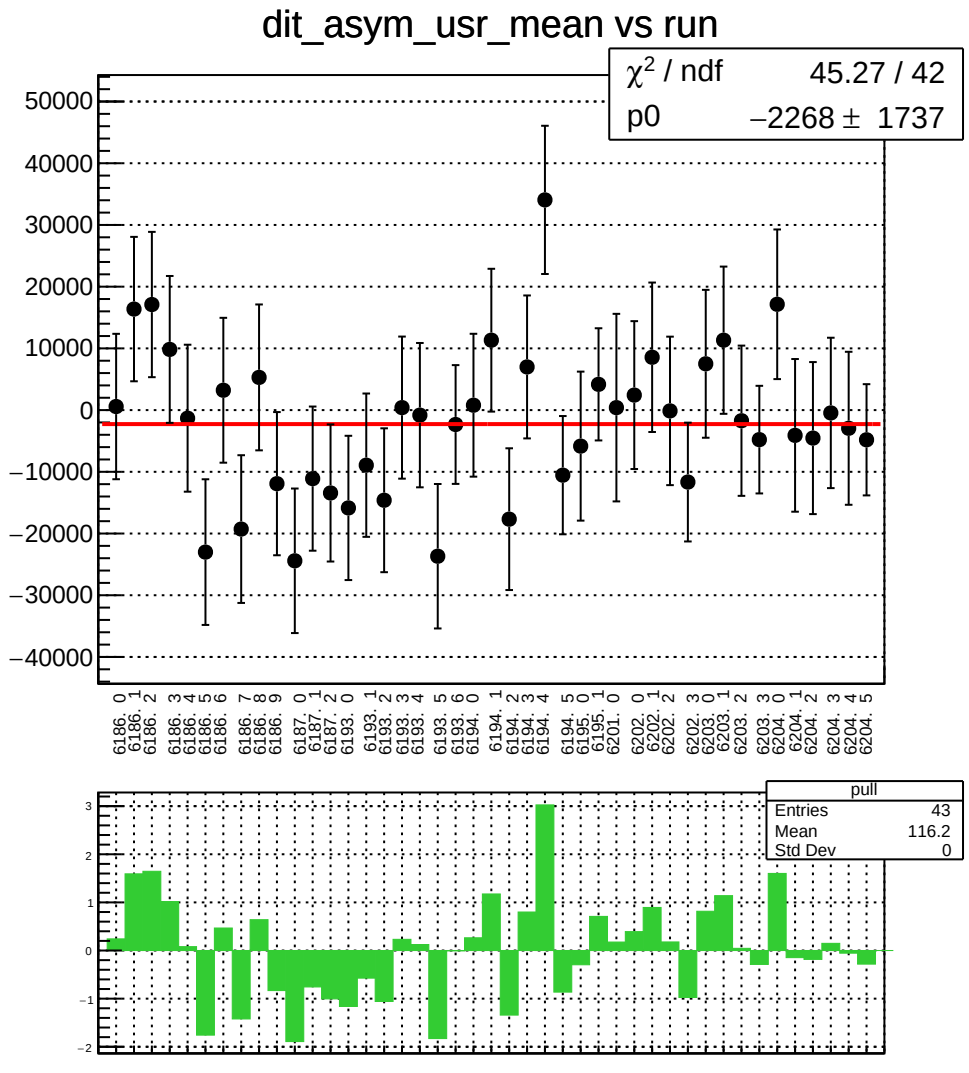

eigen_cor_asym_usr_mean vs run
χ² / ndf 45.52 / 42
p0 −2354 ± 1731
pull
Entries 43
Mean 124.7
Std Dev 0
pull1D
Entries 43
Mean 0.0146
Std Dev 1.029

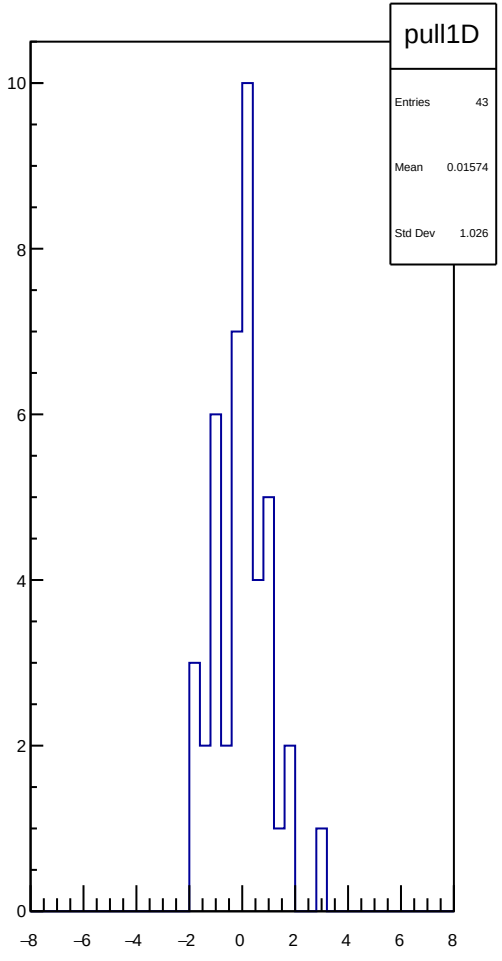

eigen_cor_asym_usr_rms vs run
χ² / ndf 380.2 / 42
p0 1125 ± 1.224
1180
1160
1140
1120
1100
1080
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

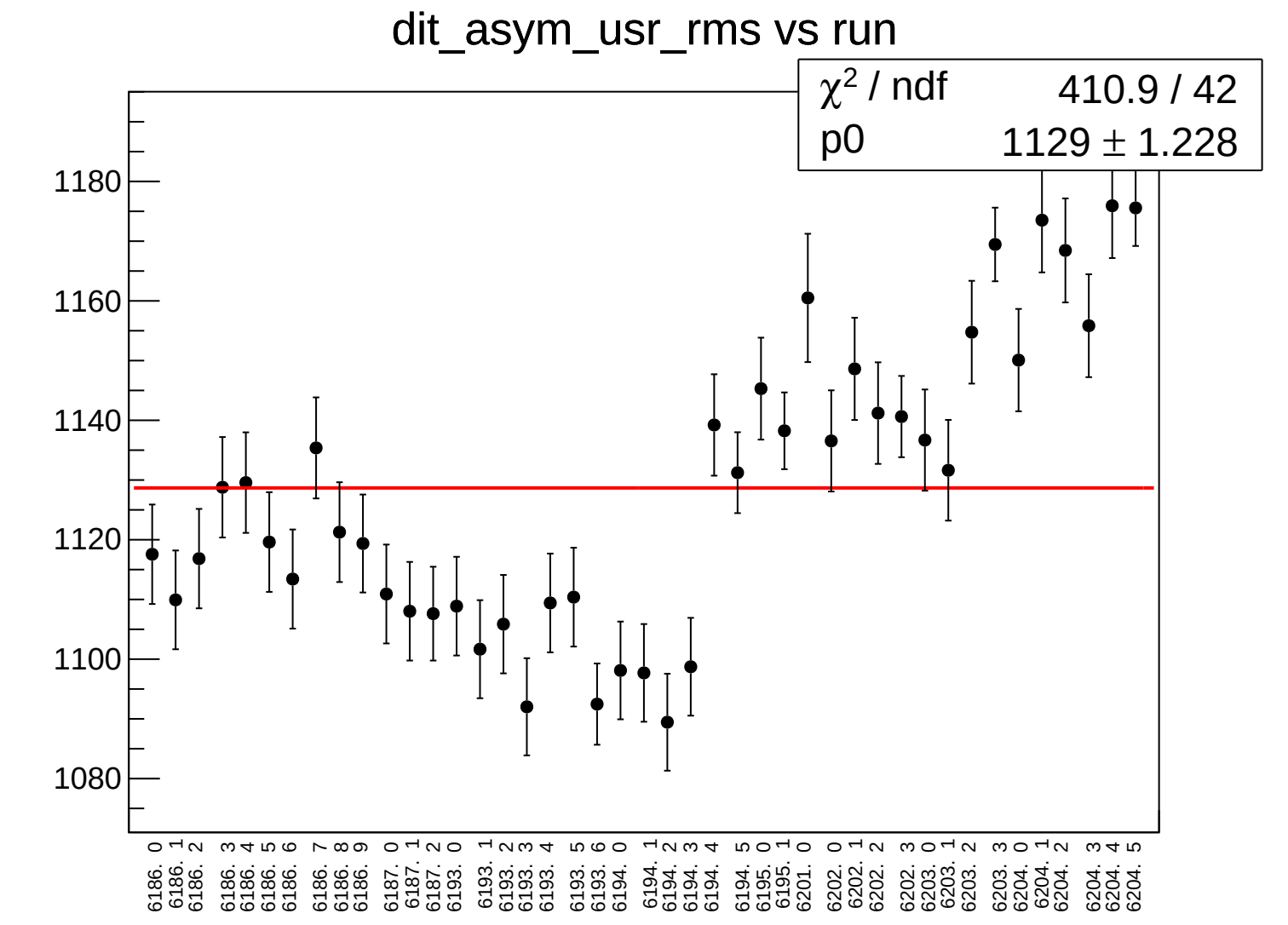

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 54.62 / 42
p0 2670 ± 3633
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1375
Std Dev 0
3
2
1
0
−1
−2
−3

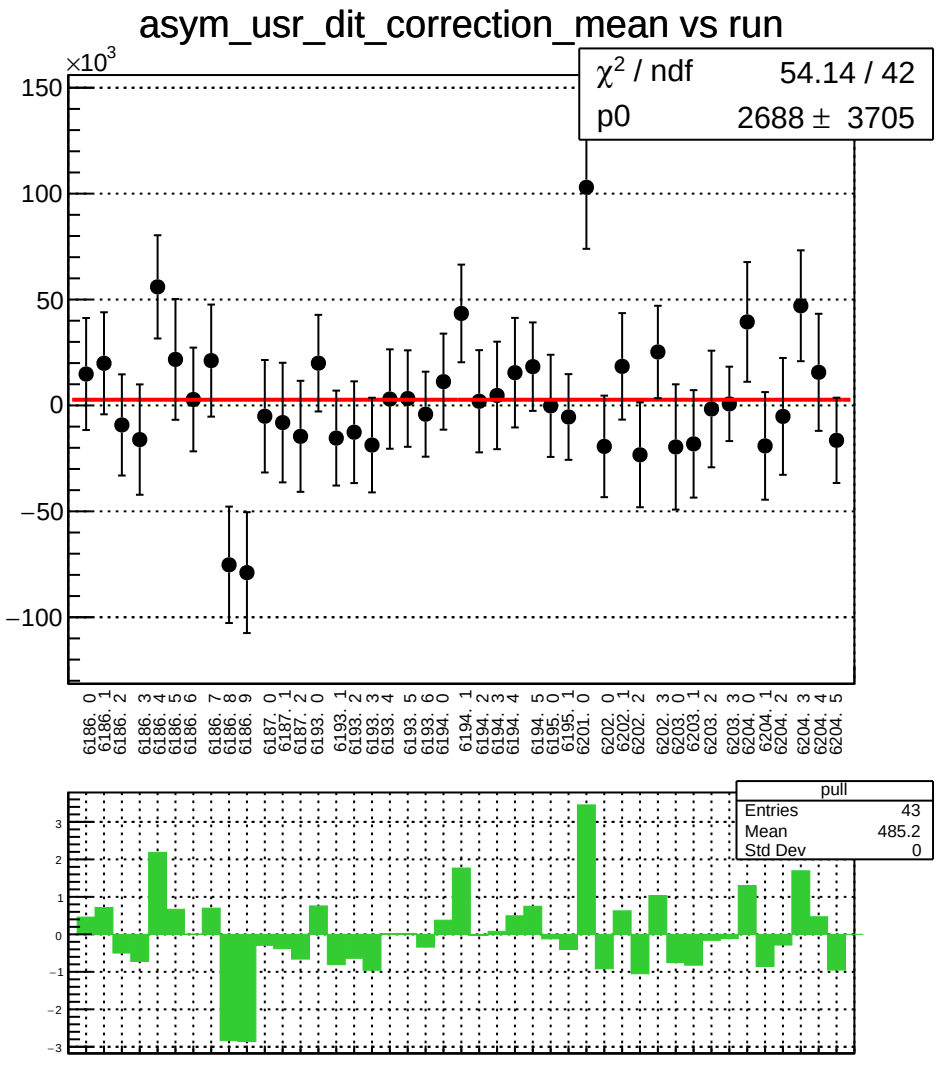

pull1D
Entries 43
Mean 0.0009887
Std Dev 1.127
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

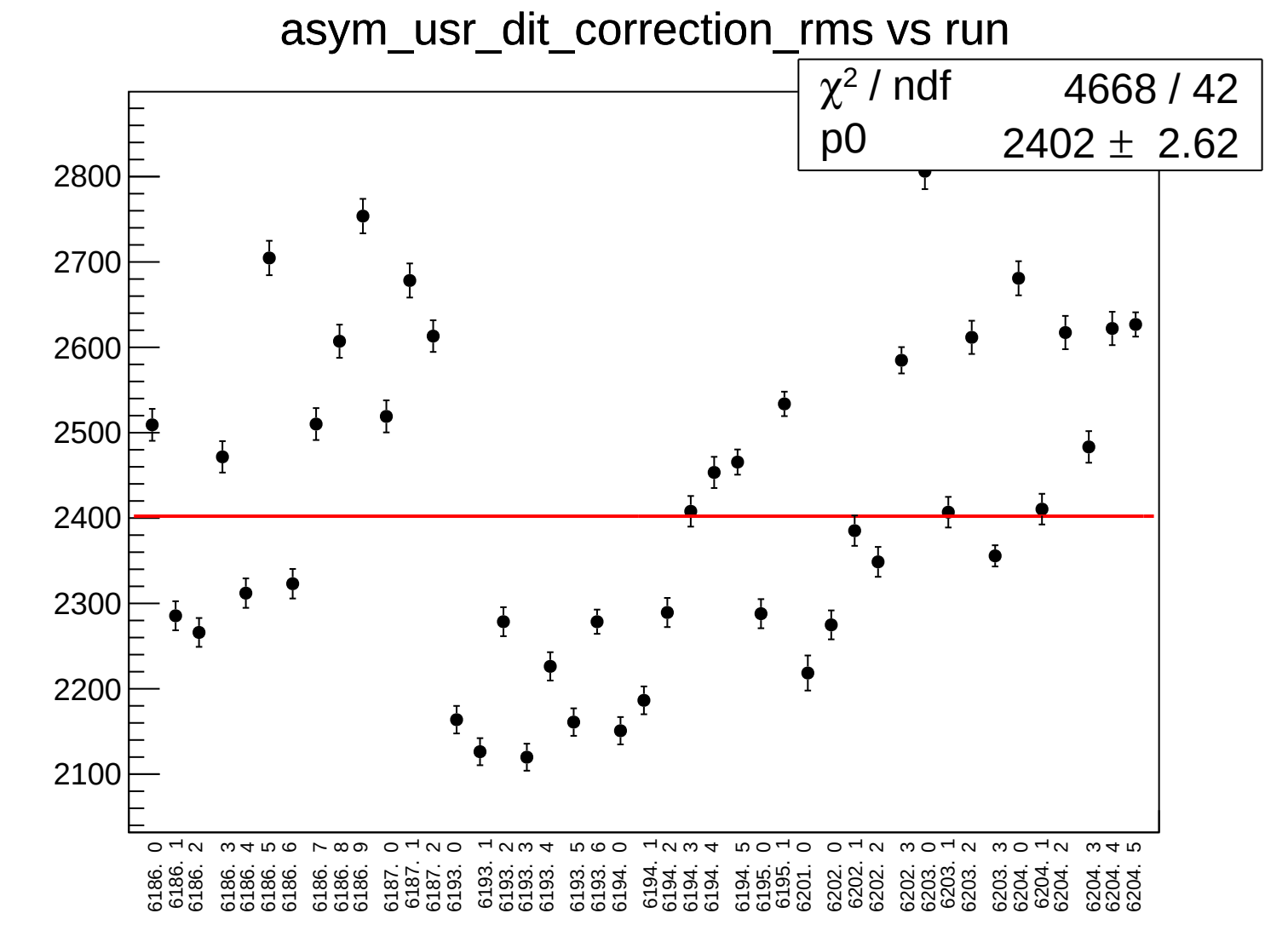

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 5102 / 42
p0 2355 ± 2.569
2800
2700
2600
2500
2400
2300
2200
2100
2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

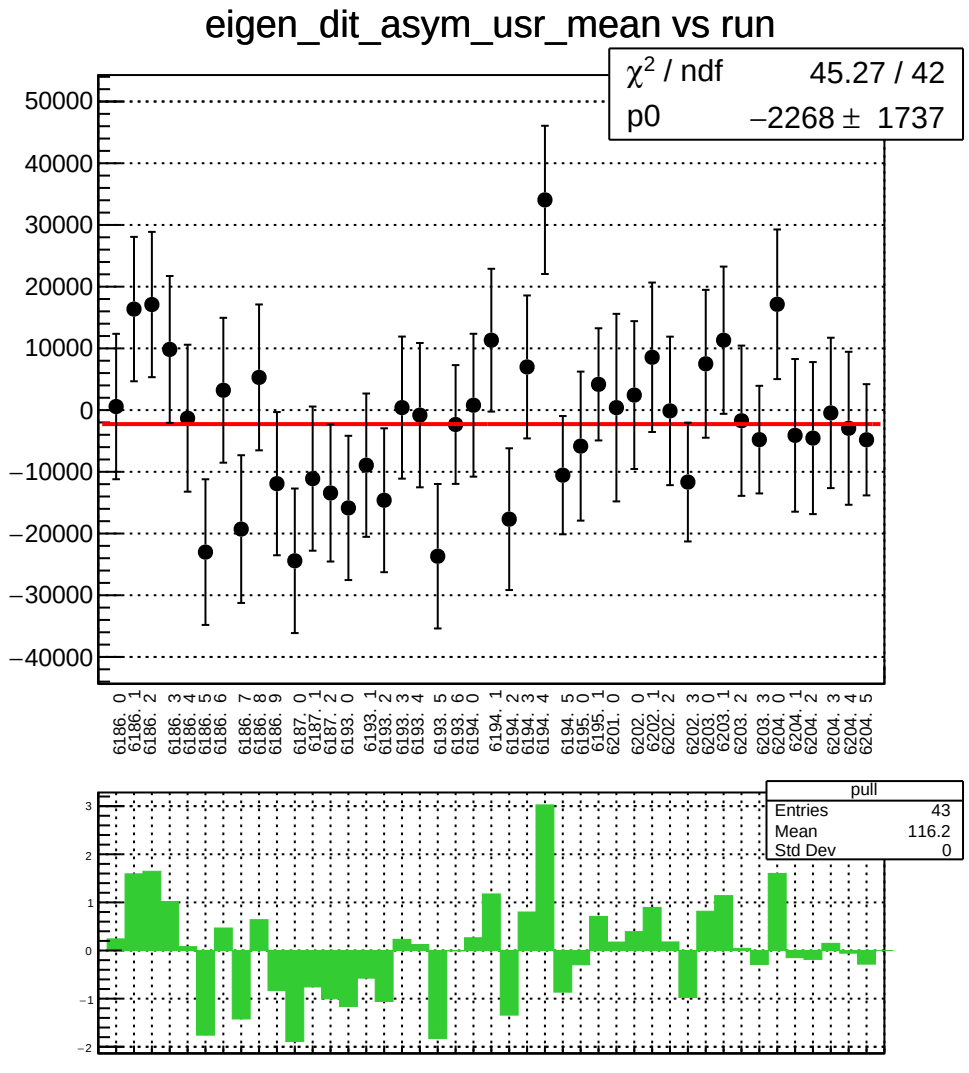

dit_asym_usr_mean vs run
χ² / ndf 45.27 / 42
p0 −2268 ± 1737
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 116.2
Std Dev 0
3
2
1
0
−1
−2

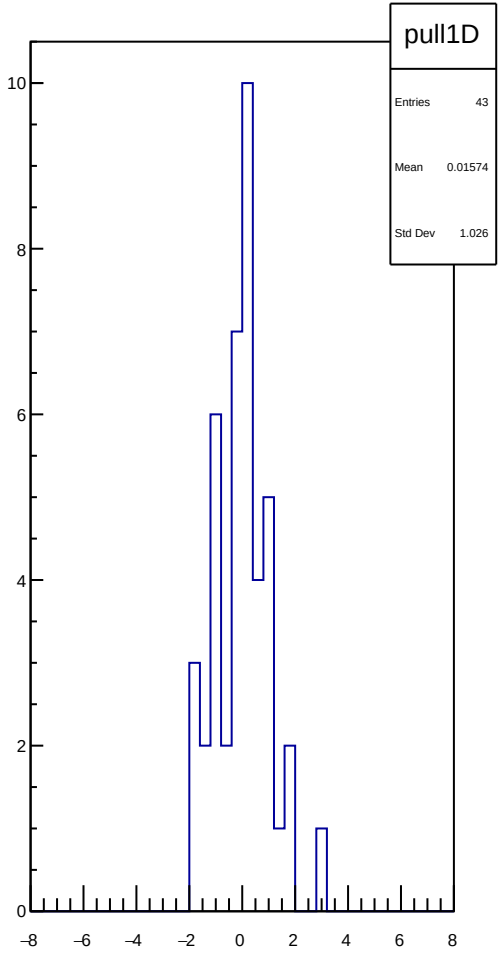

pull1D
Entries 43
Mean 0.01574
Std Dev 1.026
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

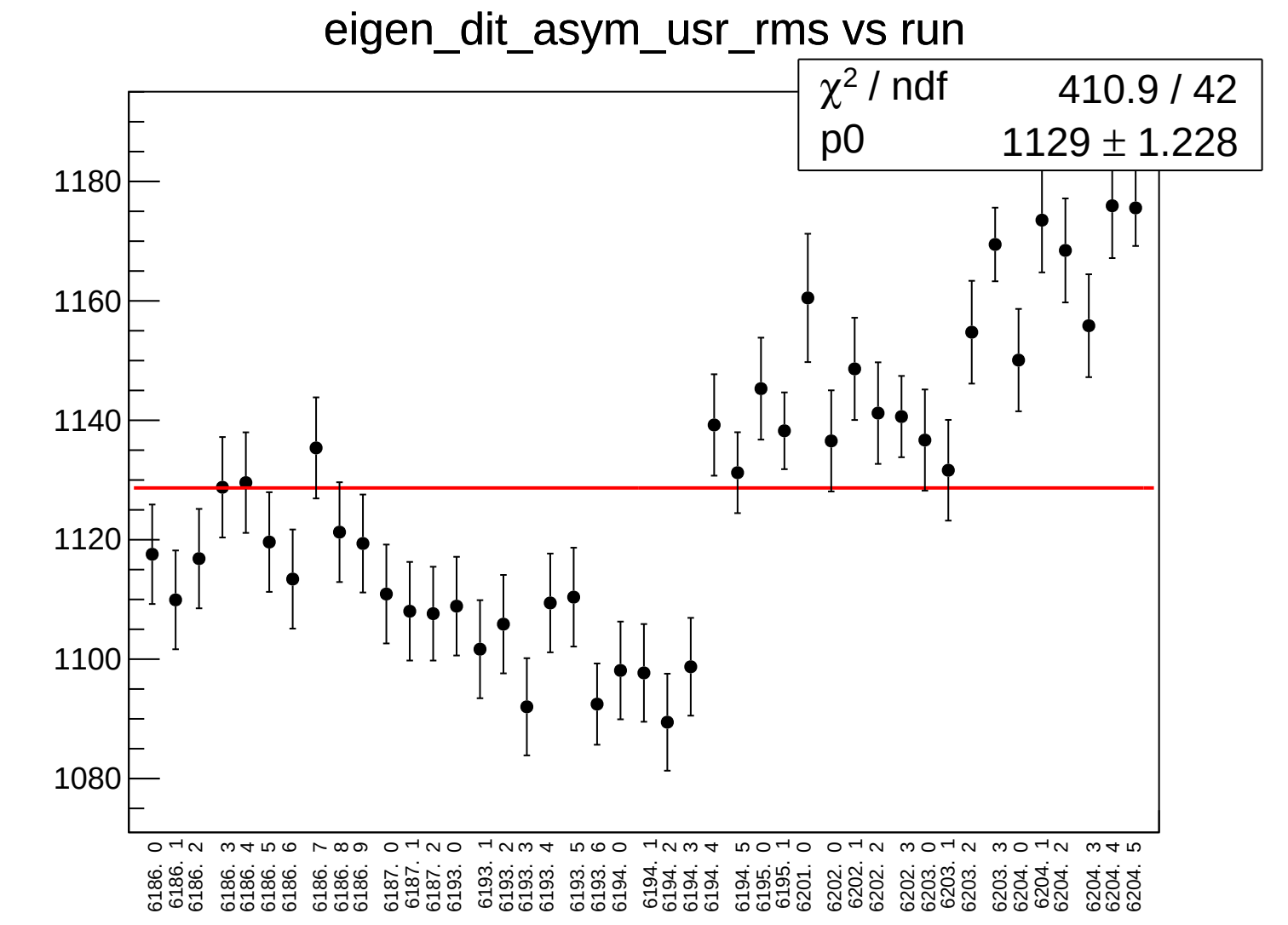

dit_asym_usr_rms vs run
χ² / ndf 410.9 / 42
p0 1129 ± 1.228
1180
1160
1140
1120
1100
1080
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

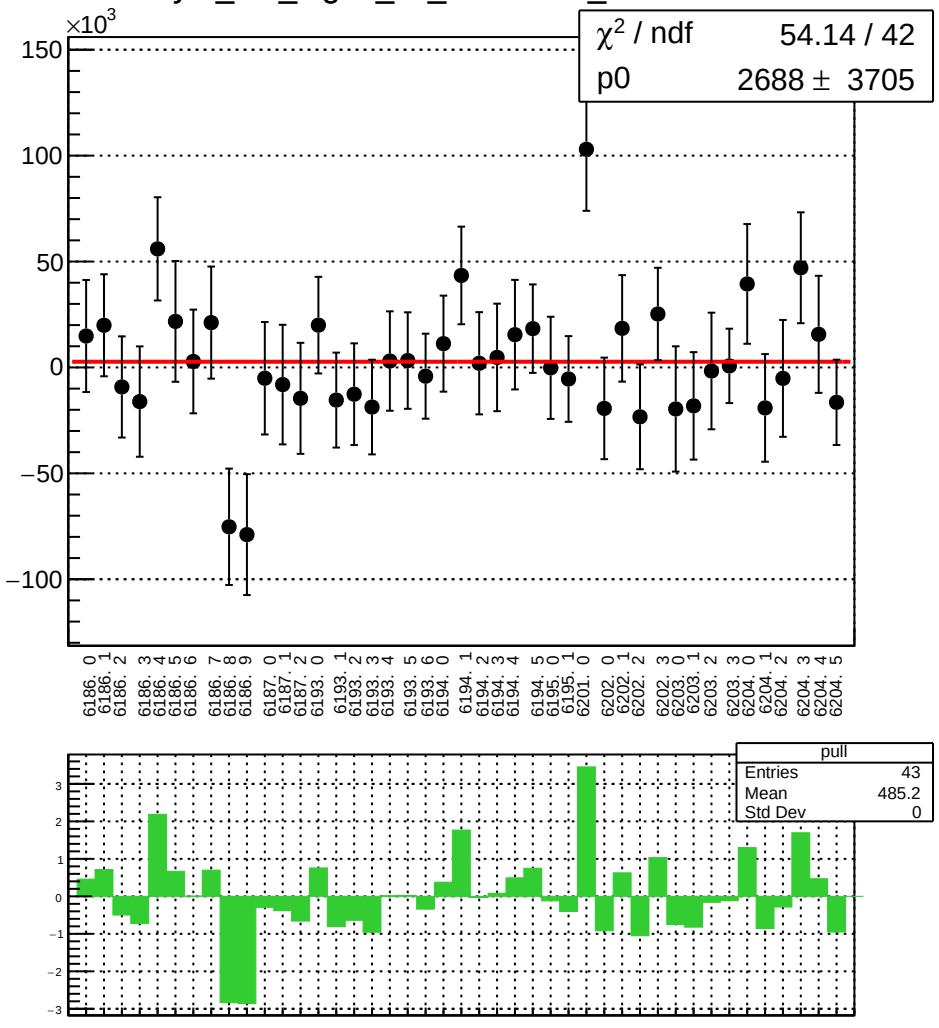

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 54.14 / 42
p0 2688 ± 3705
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 485.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.002876
Std Dev 1.122
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

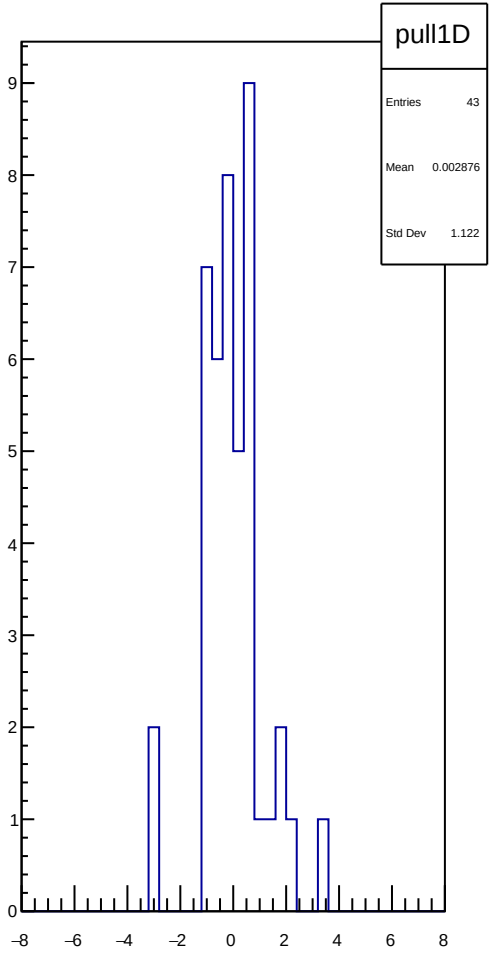

asym_usr_dit_correction_rms vs run
χ² / ndf 4668 / 42
p0 2402 ± 2.62
2800
2700
2600
2500
2400
2300
2200
2100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

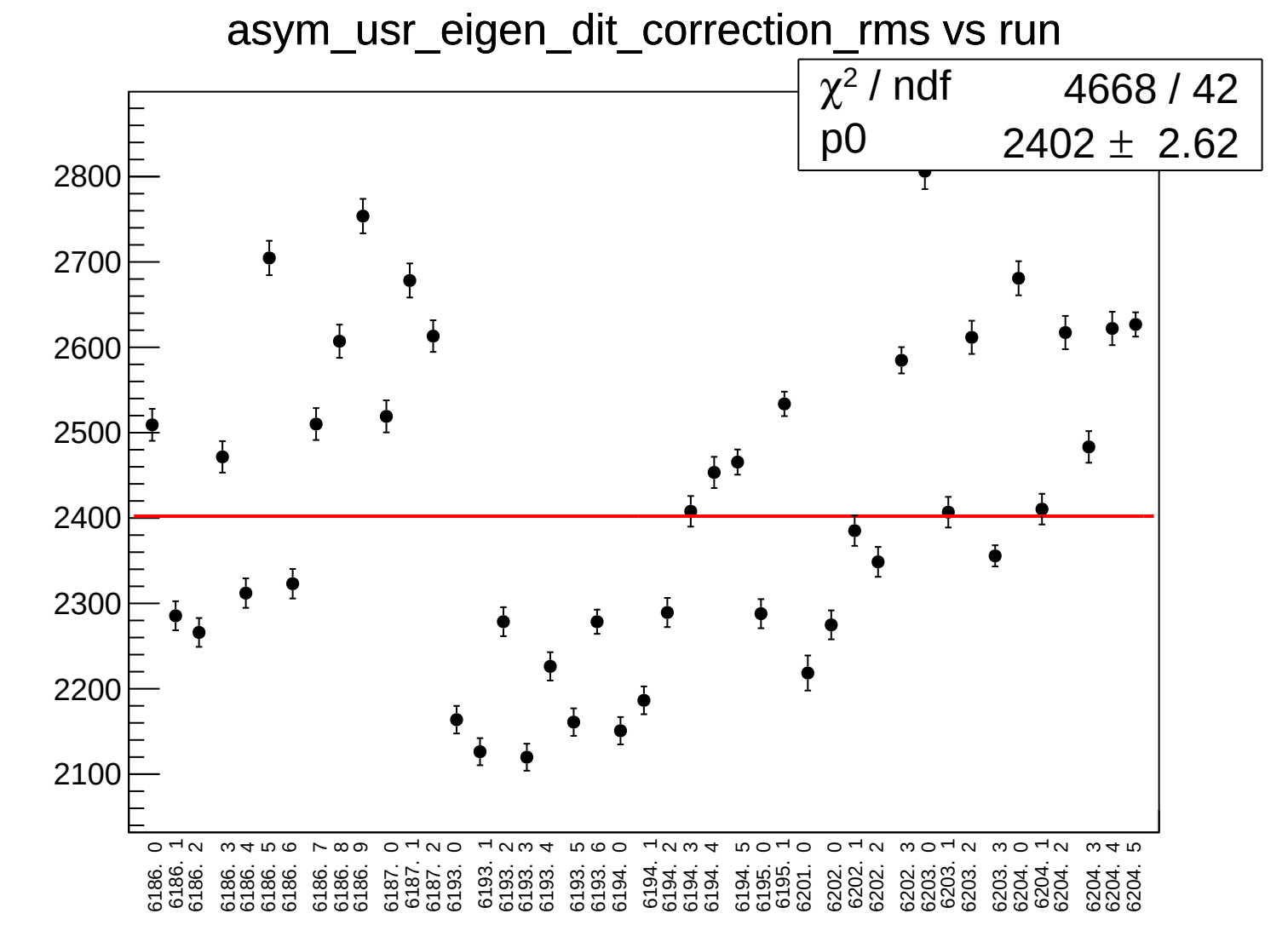

eigen_dit_asym_usr_mean vs run
χ² / ndf 45.27 / 42
p0 −2268 ± 1737
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 116.2
Std Dev 0
3
2
1
0
−1
−2

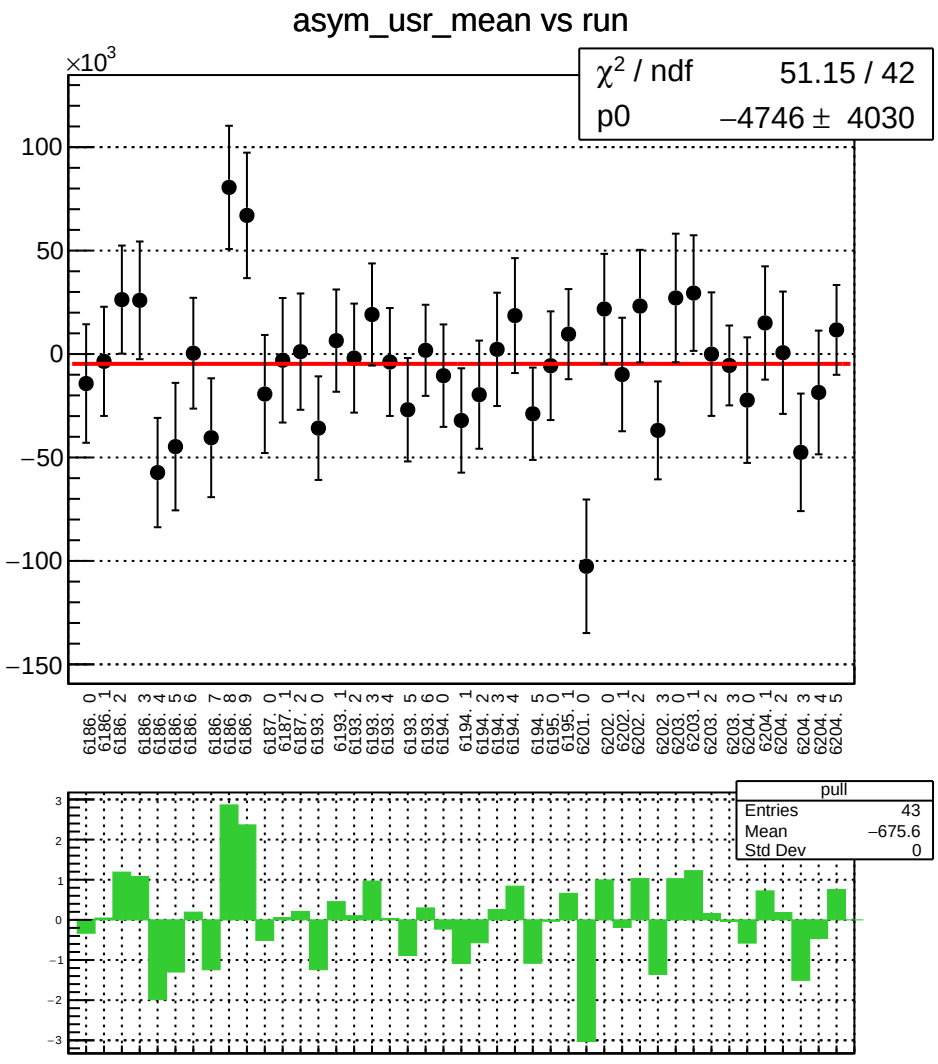

pull1D
Entries 43
Mean 0.01574
Std Dev 1.026
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

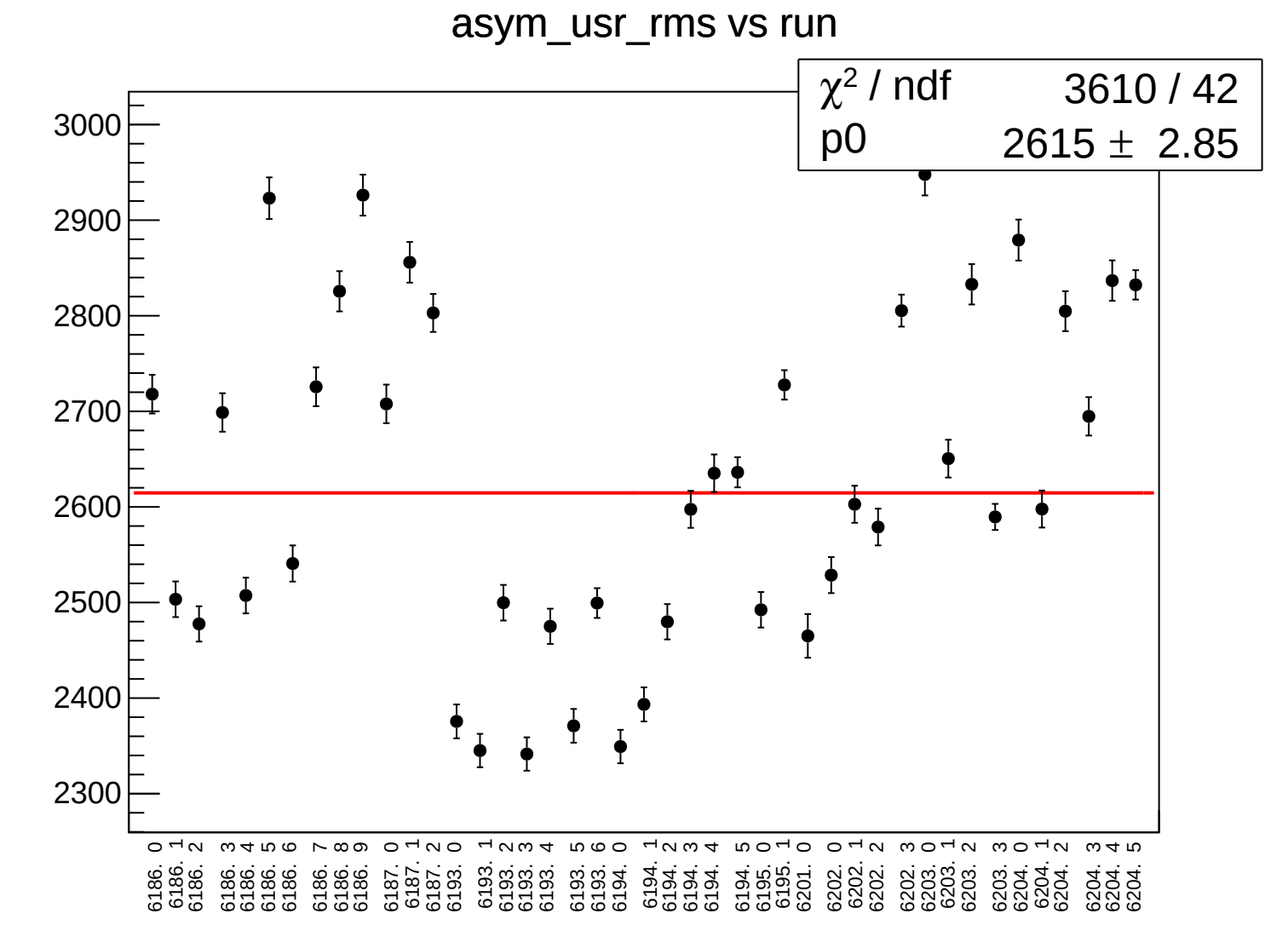

eigen_dit_asym_usr_rms vs run
χ² / ndf 410.9 / 42
p0 1129 ± 1.228
1180
1160
1140
1120
1100
1080
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

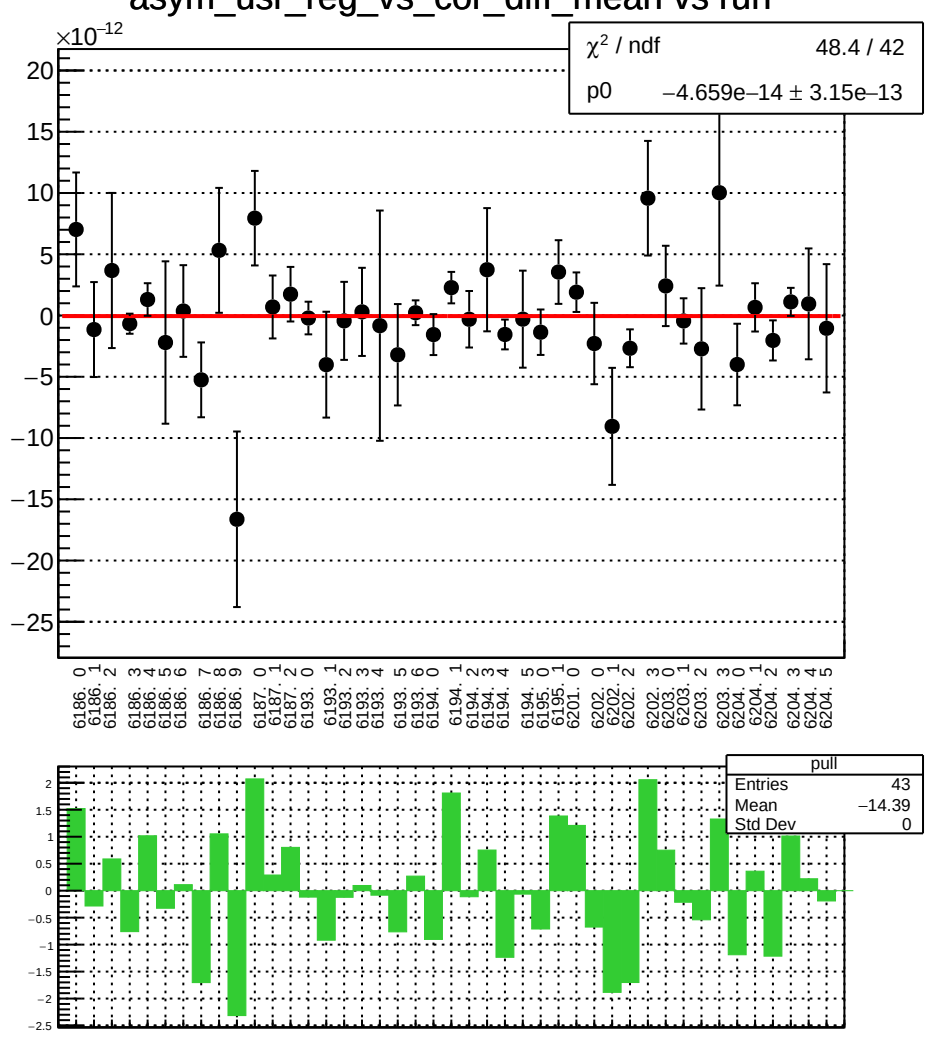

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 54.14 / 42
p0 2688 ± 3705
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 485.2
Std Dev 0
3
2
1
0
−1
−2
−3

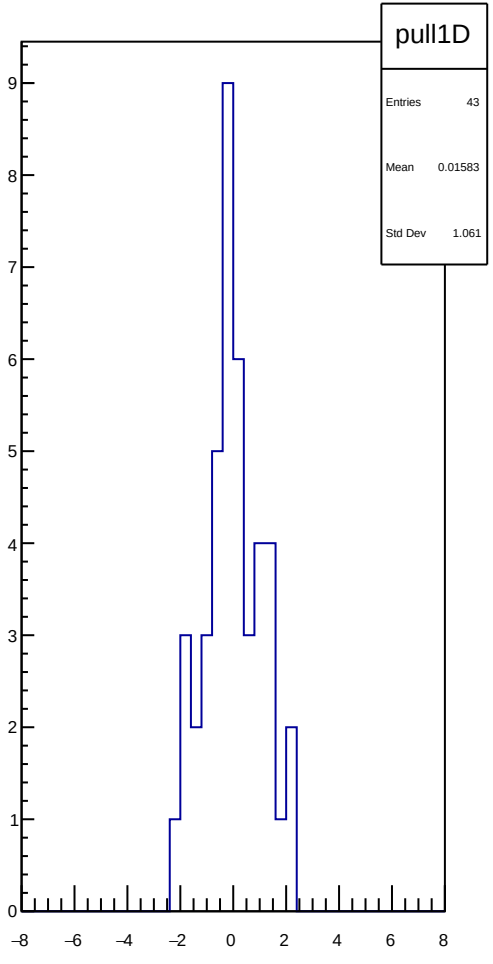

pull1D
Entries 43
Mean 0.002876
Std Dev 1.122
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

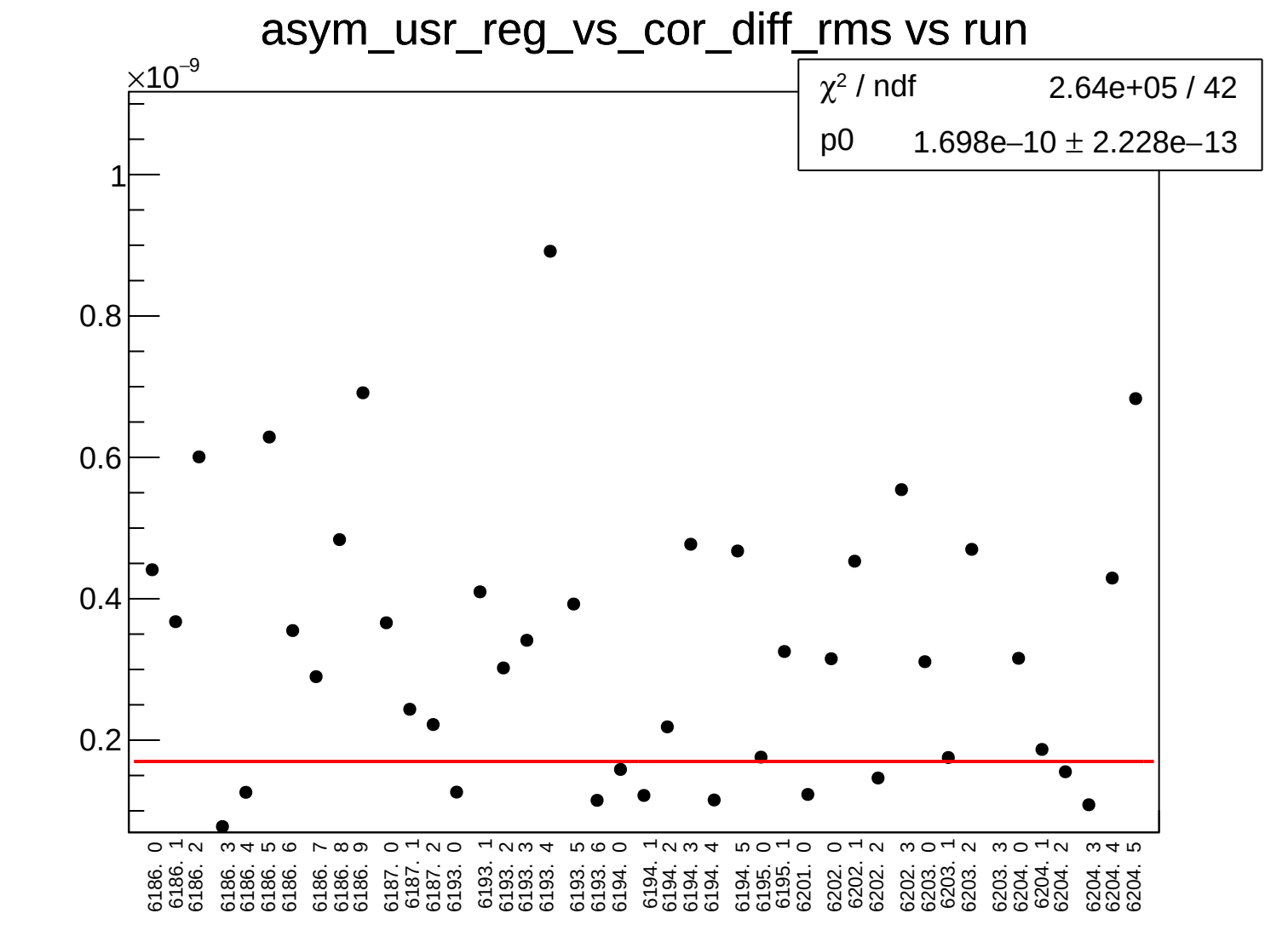

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 4668 / 42
p0 2402 ± 2.62
2800
2700
2600
2500
2400
2300
2200
2100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

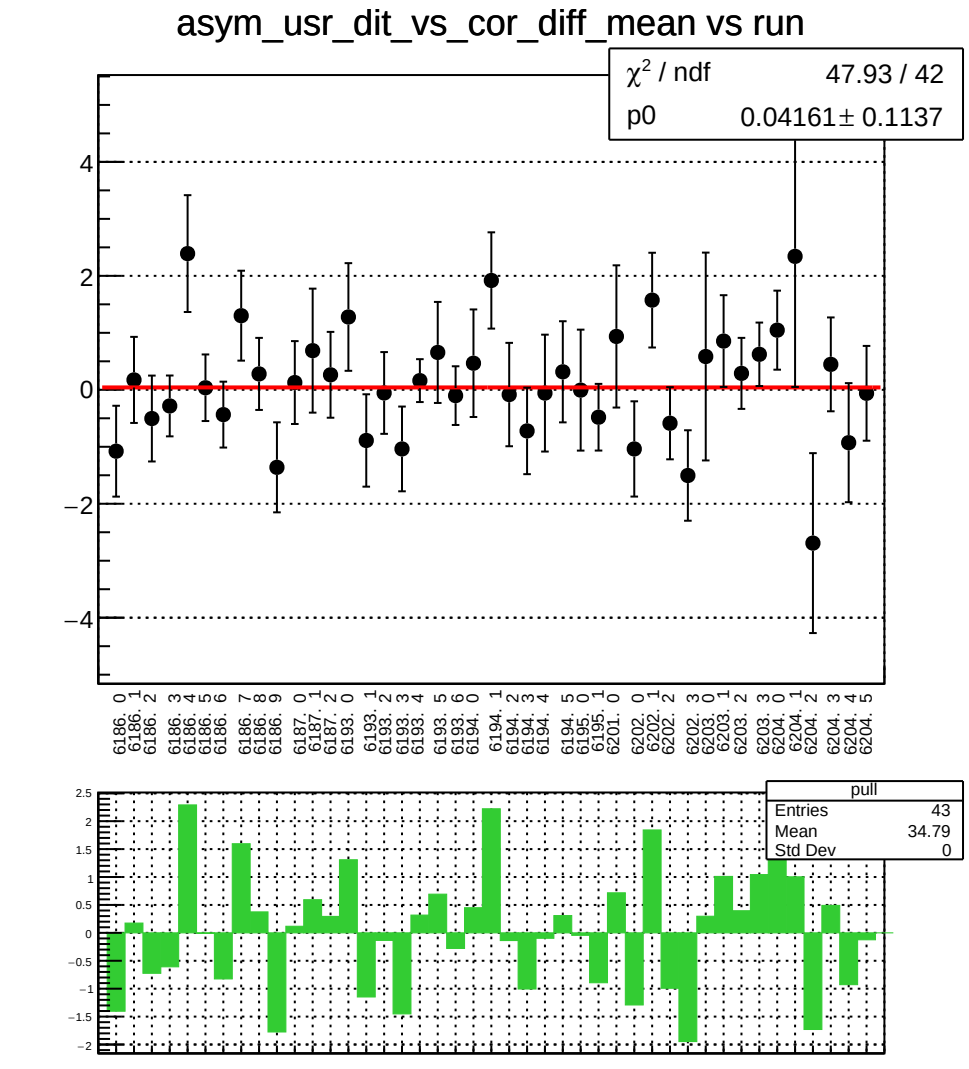

asym_usr_mean vs run
×10^3
χ² / ndf 51.15 / 42
p0 −4746 ± 4030
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −675.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.0009829
Std Dev 1.091
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

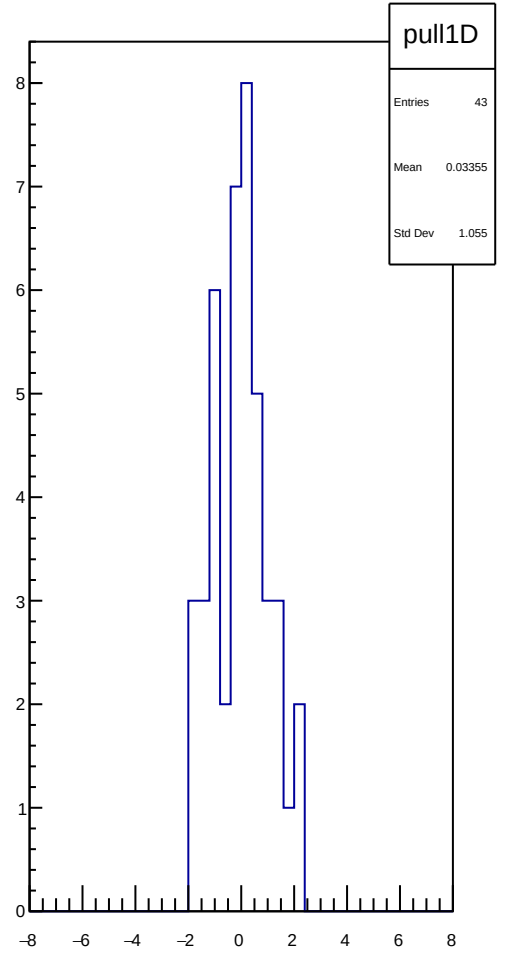

asym_usr_rms vs run
χ² / ndf 3610 / 42
p0 2615 ± 2.85
3000
2900
2800
2700
2600
2500
2400
2300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

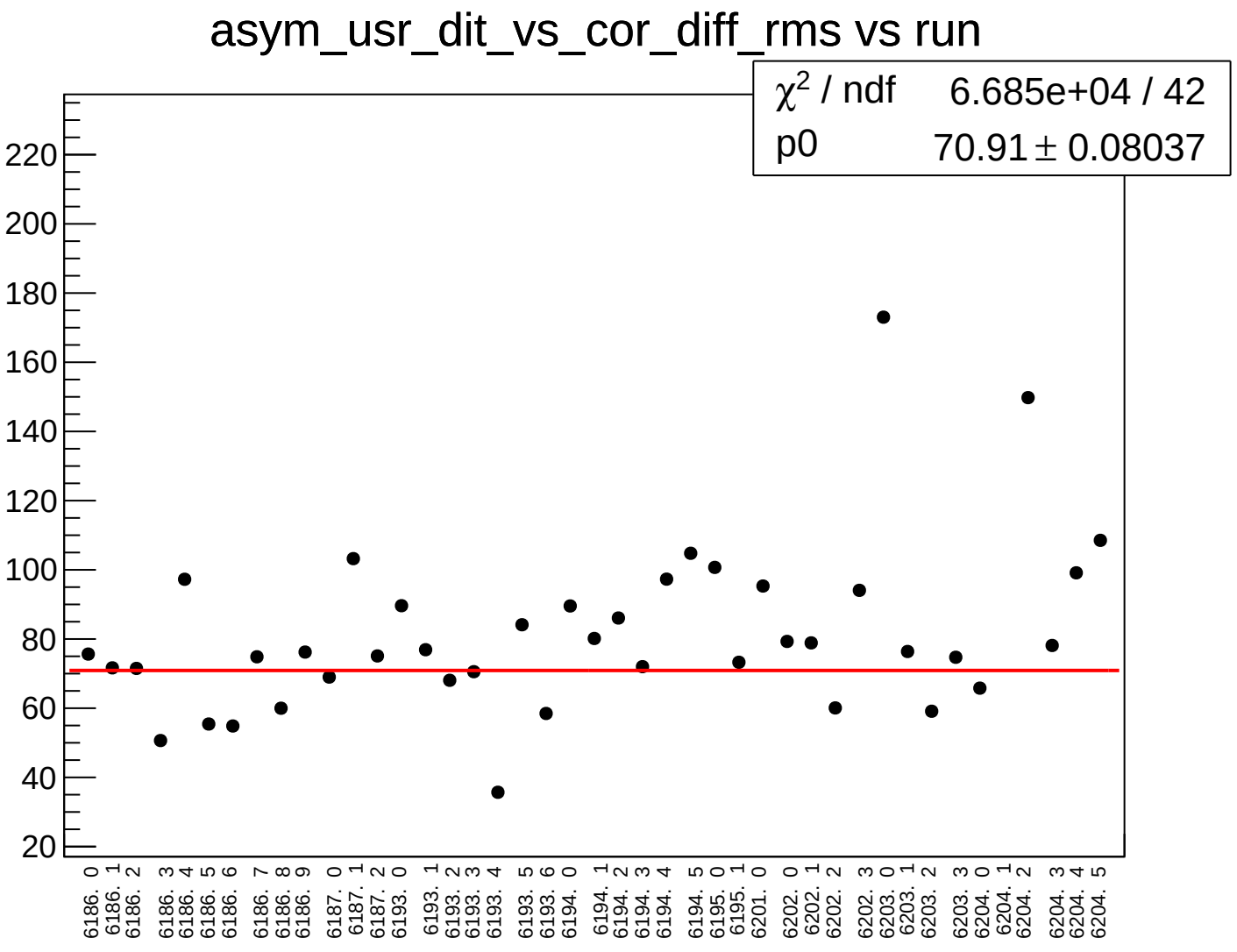

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.4 / 42
p0 −4.659e−14 ± 3.15e−13
pull
Entries 43
Mean −14.39
Std Dev 0

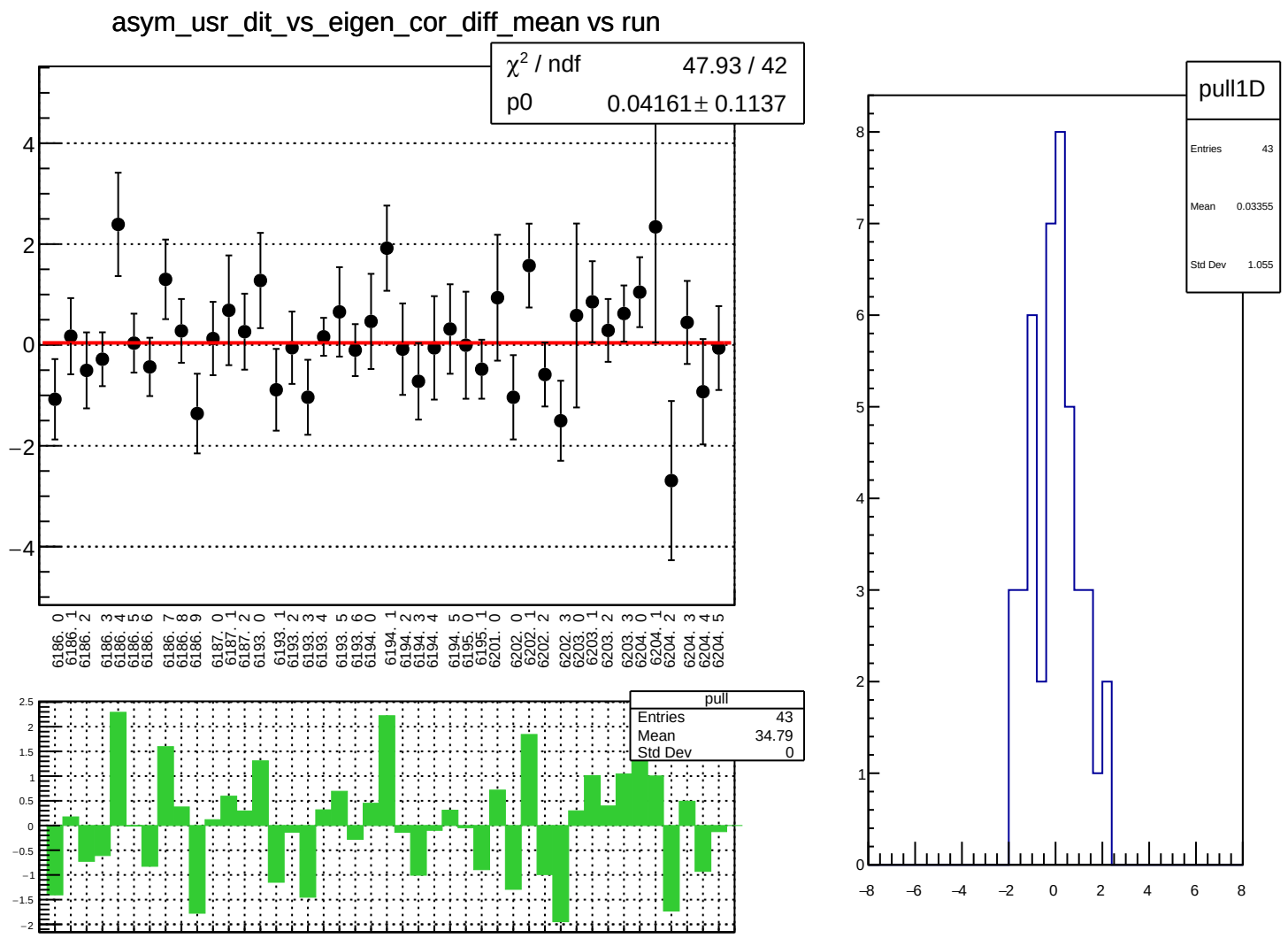

pull1D
Entries 43
Mean 0.01583
Std Dev 1.061

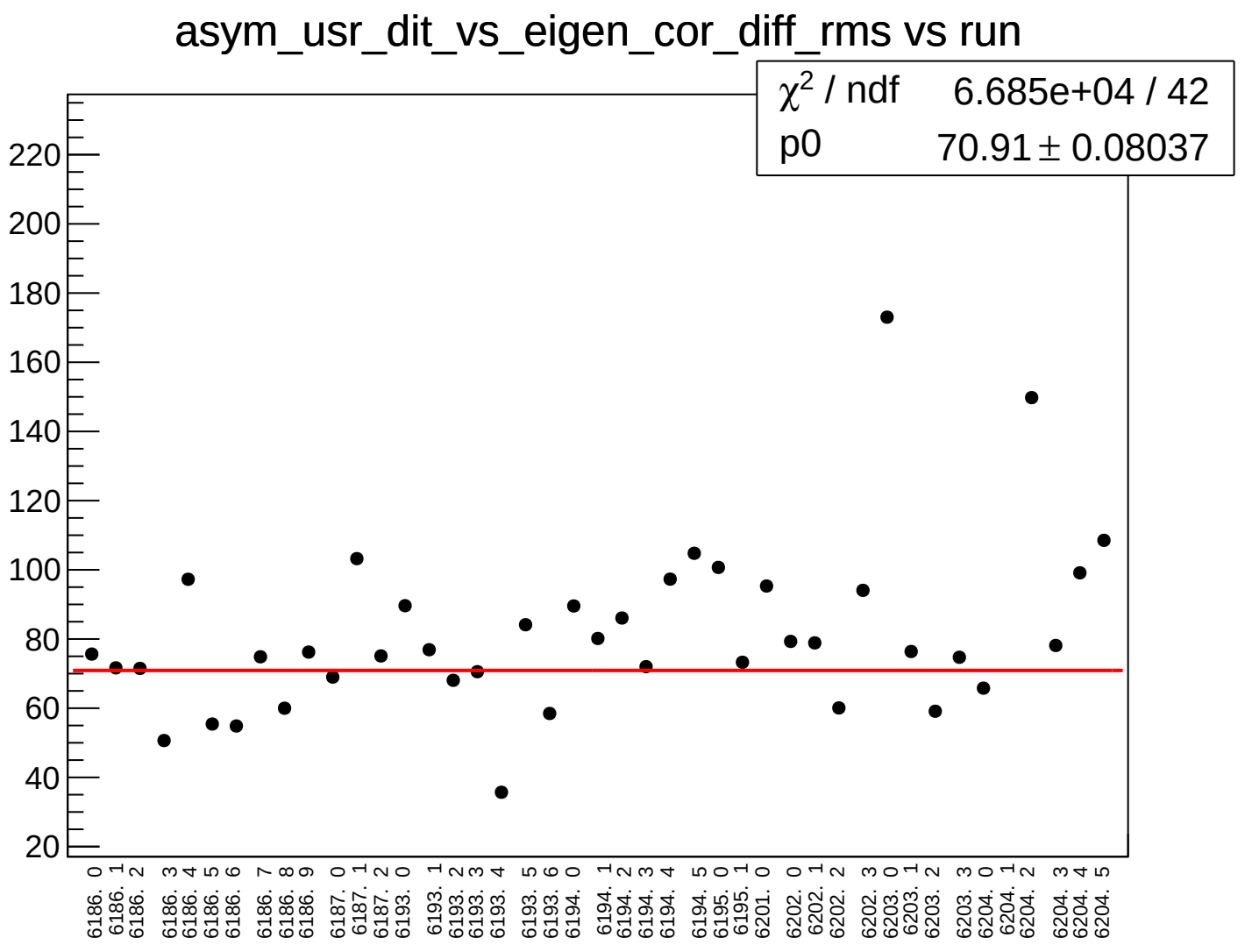

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.64e+05 / 42
p0 1.698e−10 ± 2.228e−13
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

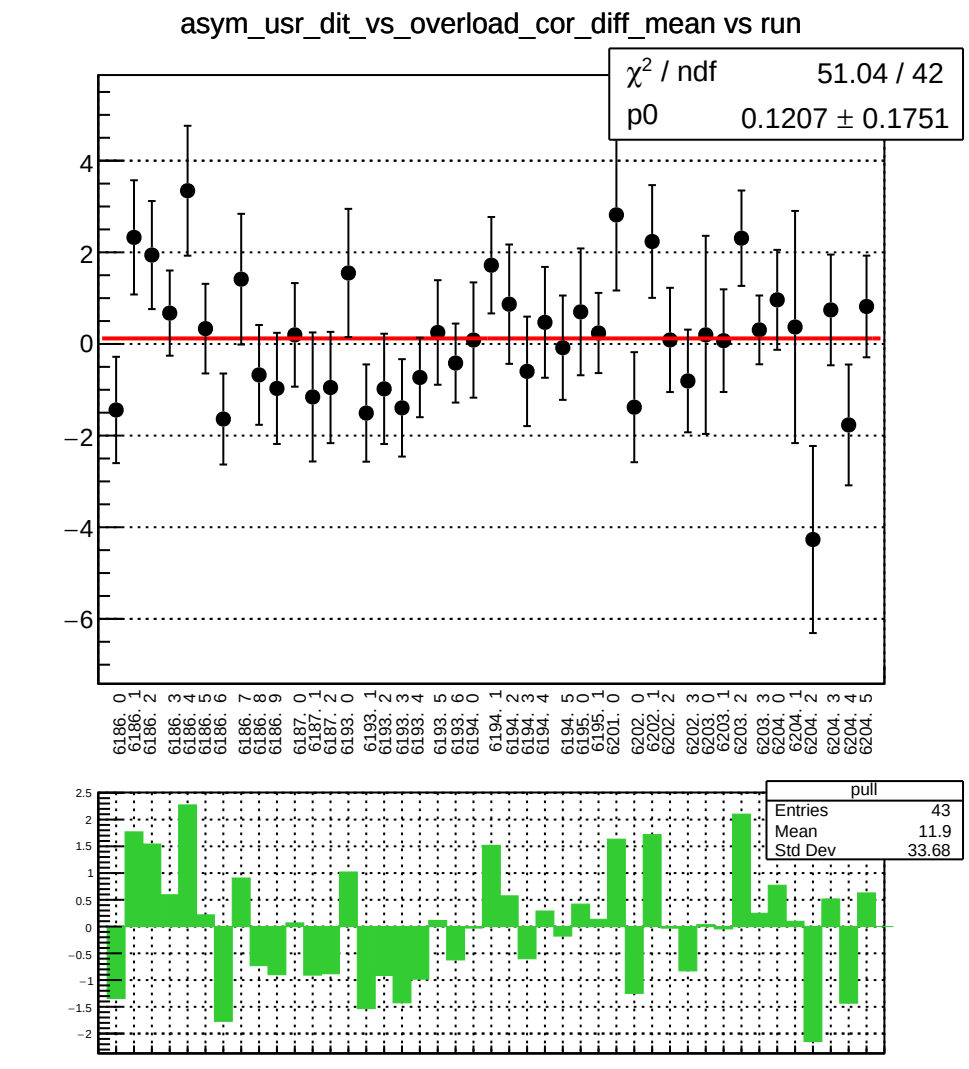

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 47.93 / 42
p0 0.04161± 0.1137
pull
Entries 43
Mean 34.79
Std Dev 0

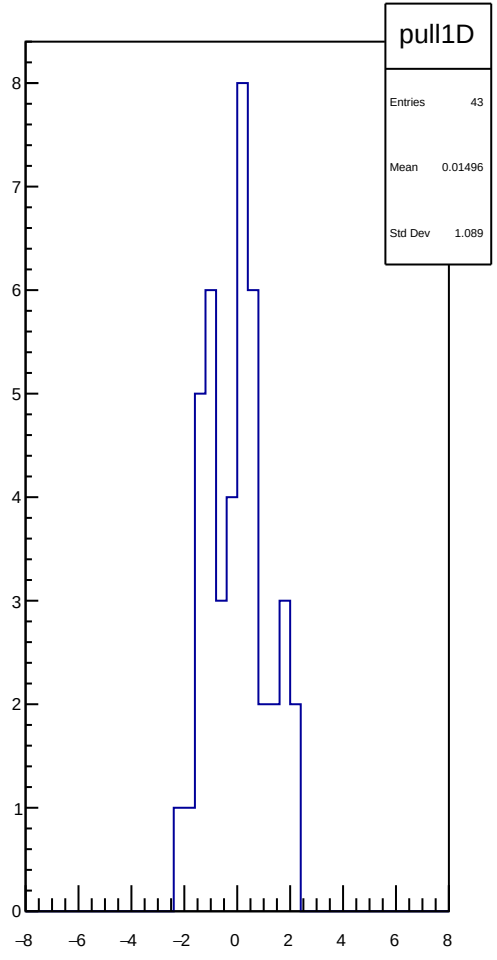

pull1D
Entries 43
Mean 0.03355
Std Dev 1.055

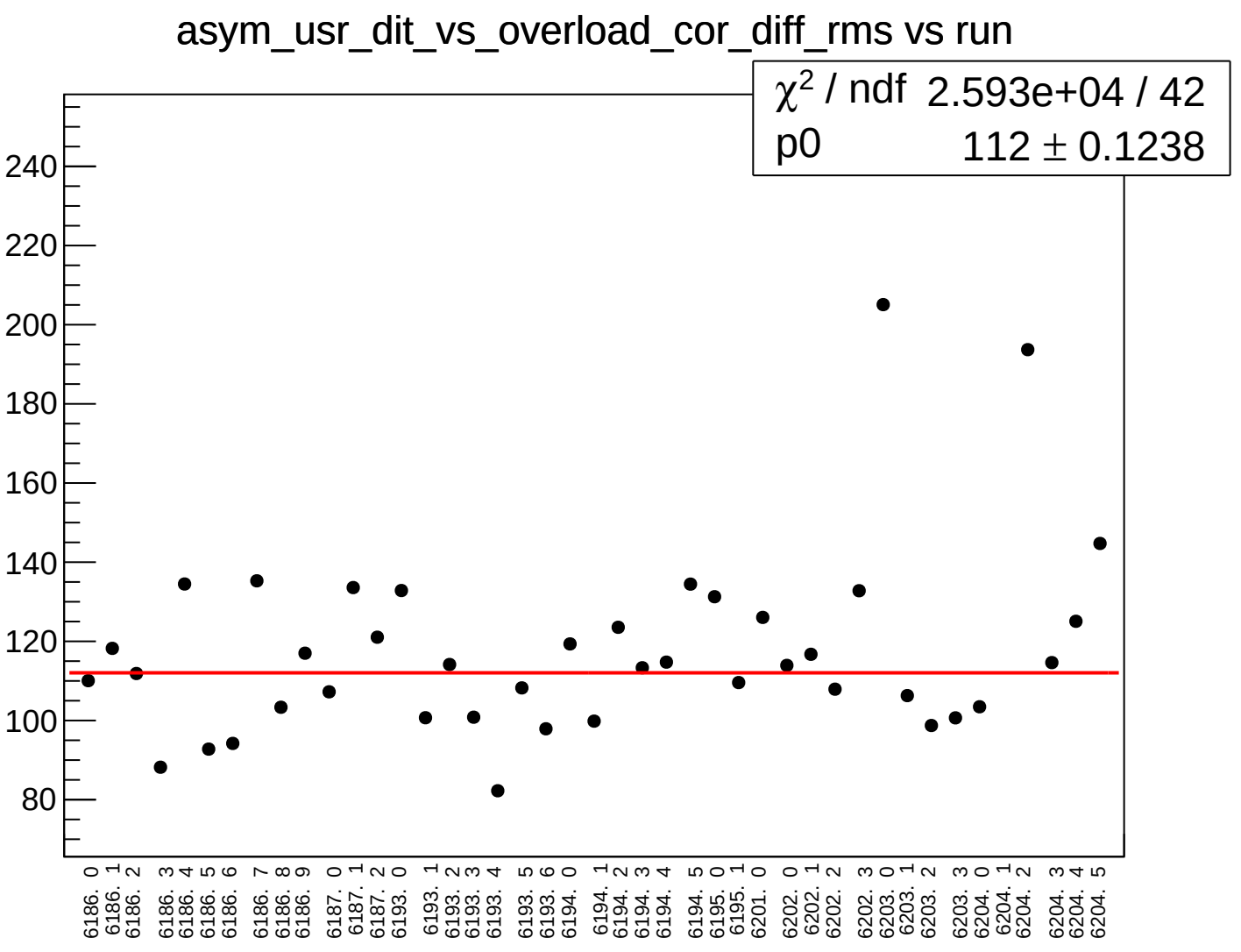

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 6.685e+04 / 42
p0 70.91 ± 0.08037
220
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

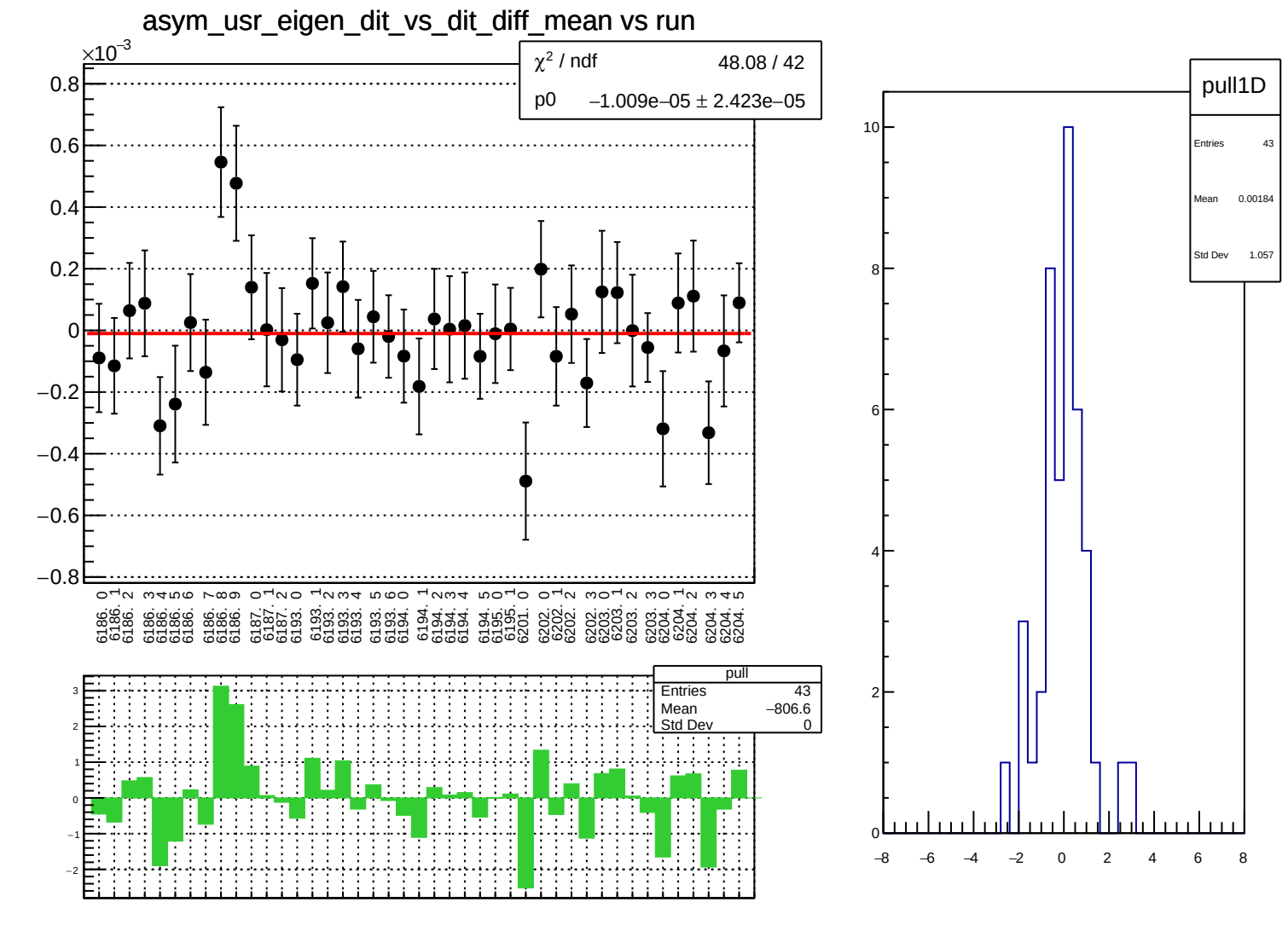

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.93 / 42
p0 0.04161± 0.1137
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 34.79
Std Dev 0
pull1D
Entries 43
Mean 0.03355
Std Dev 1.055

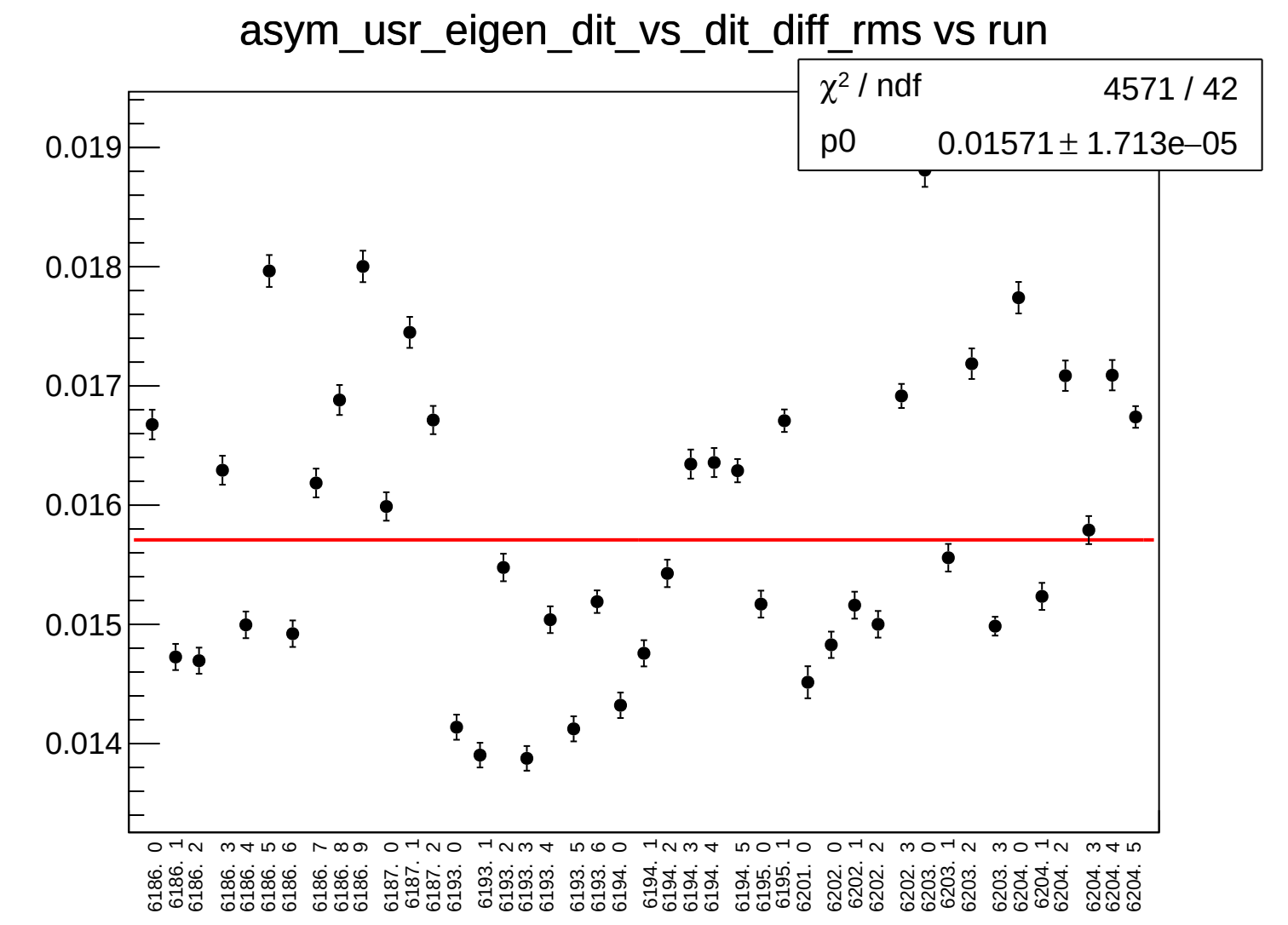

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.685e+04 / 42
p0 70.91 ± 0.08037
220
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

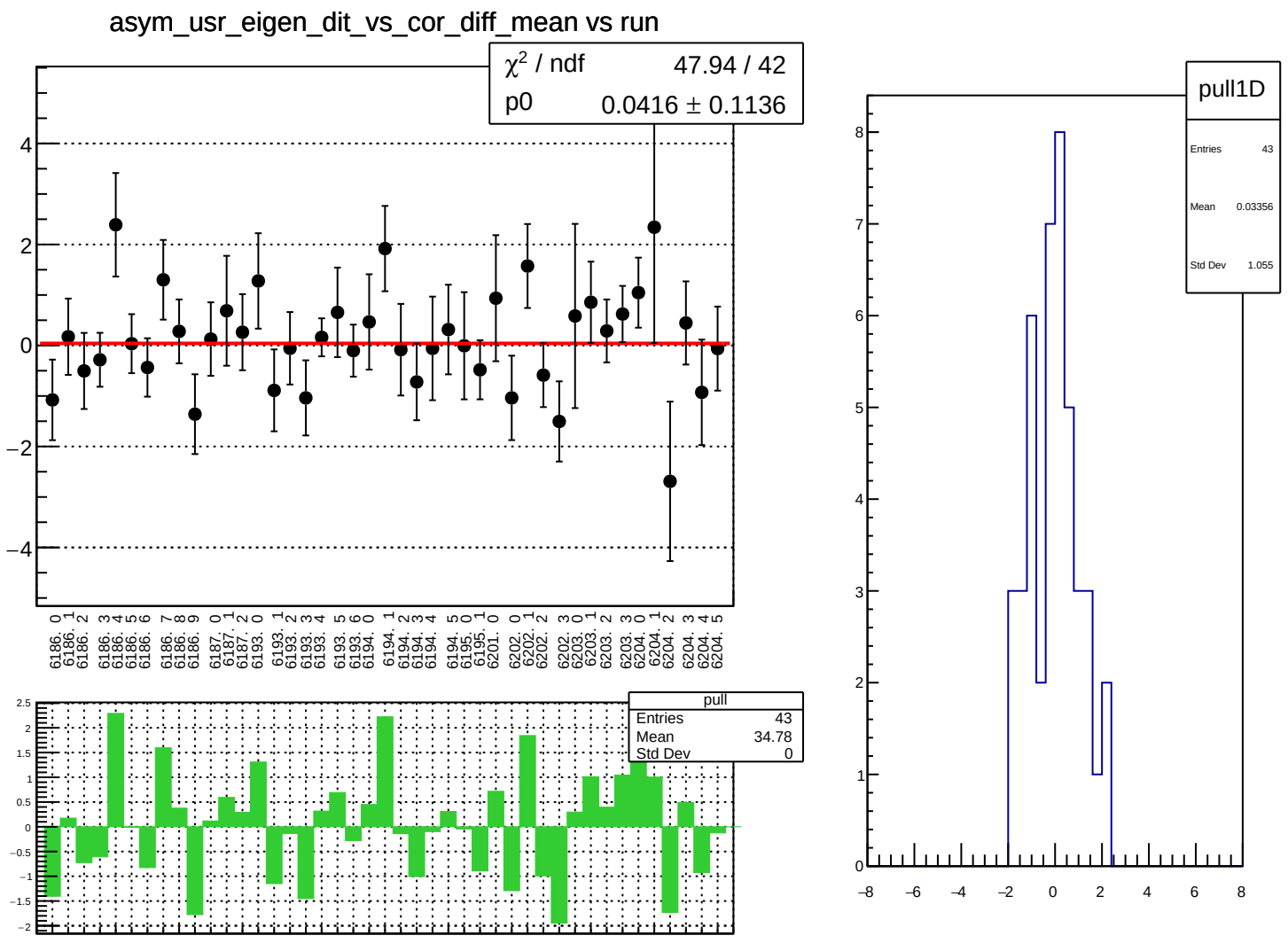

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 51.04 / 42
p0 0.1207 ± 0.1751
pull
Entries 43
Mean 11.9
Std Dev 33.68

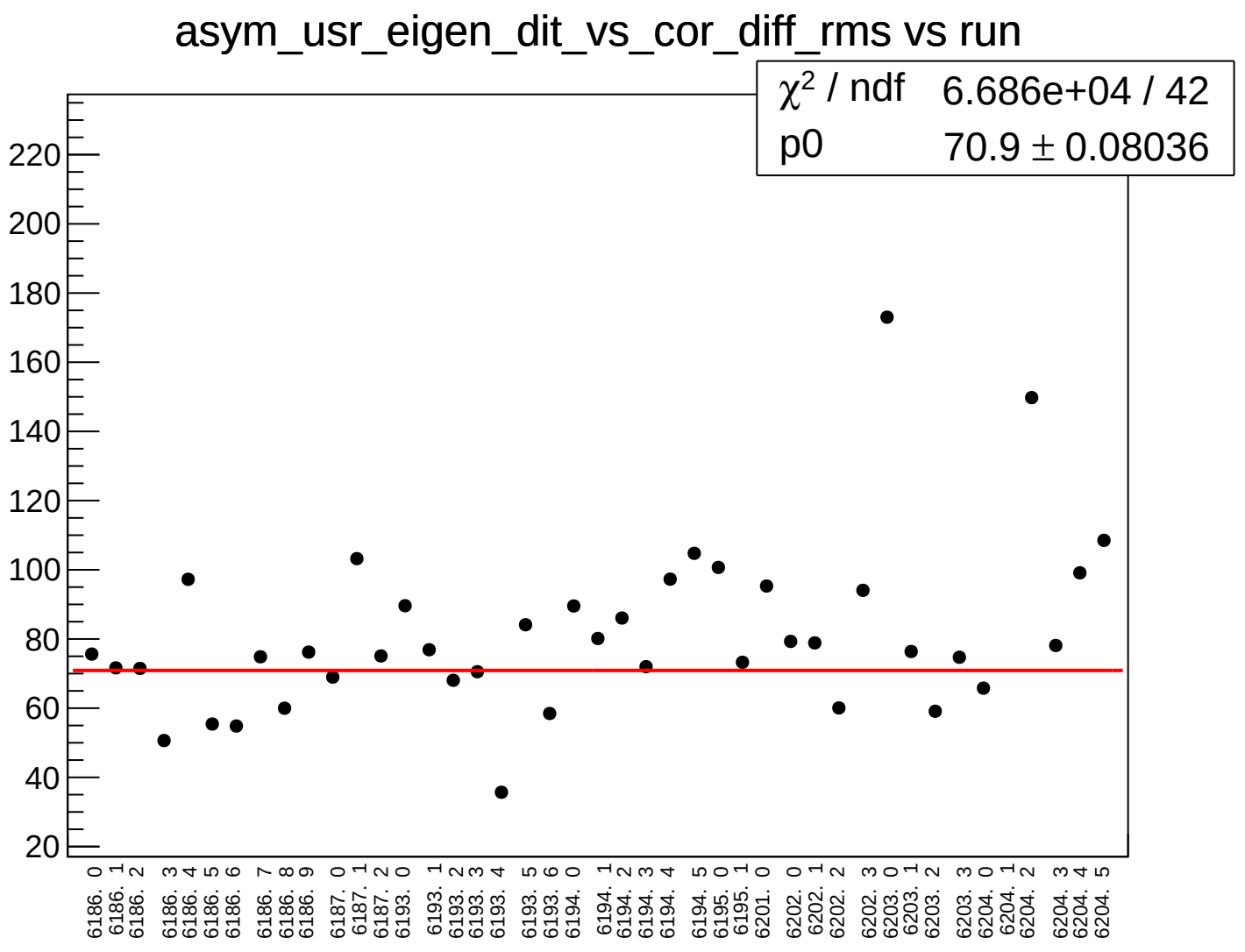

pull1D
Entries 43
Mean 0.01496
Std Dev 1.089

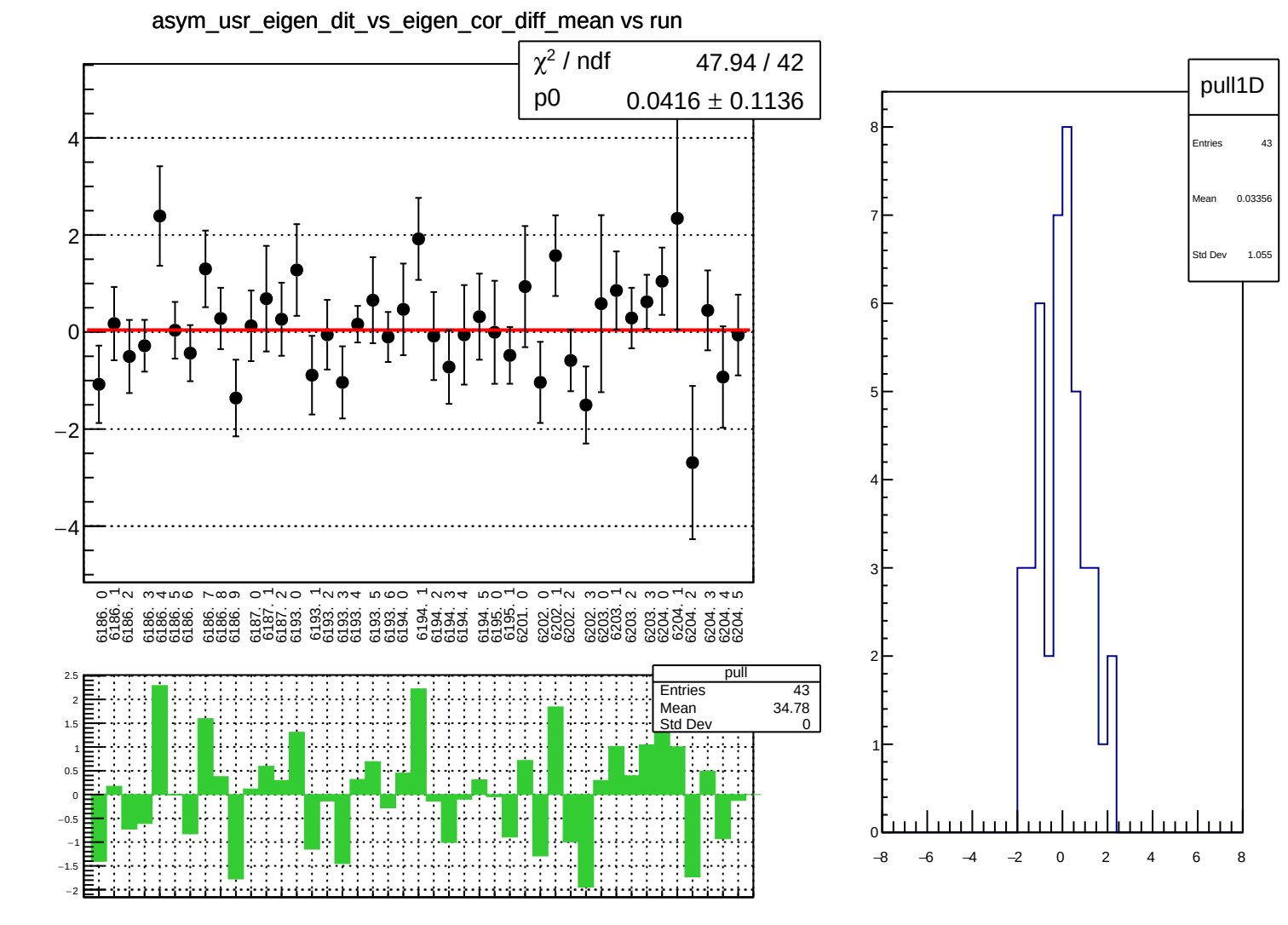

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 2.593e+04 / 42
p0 112 ± 0.1238
240
220
200
180
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

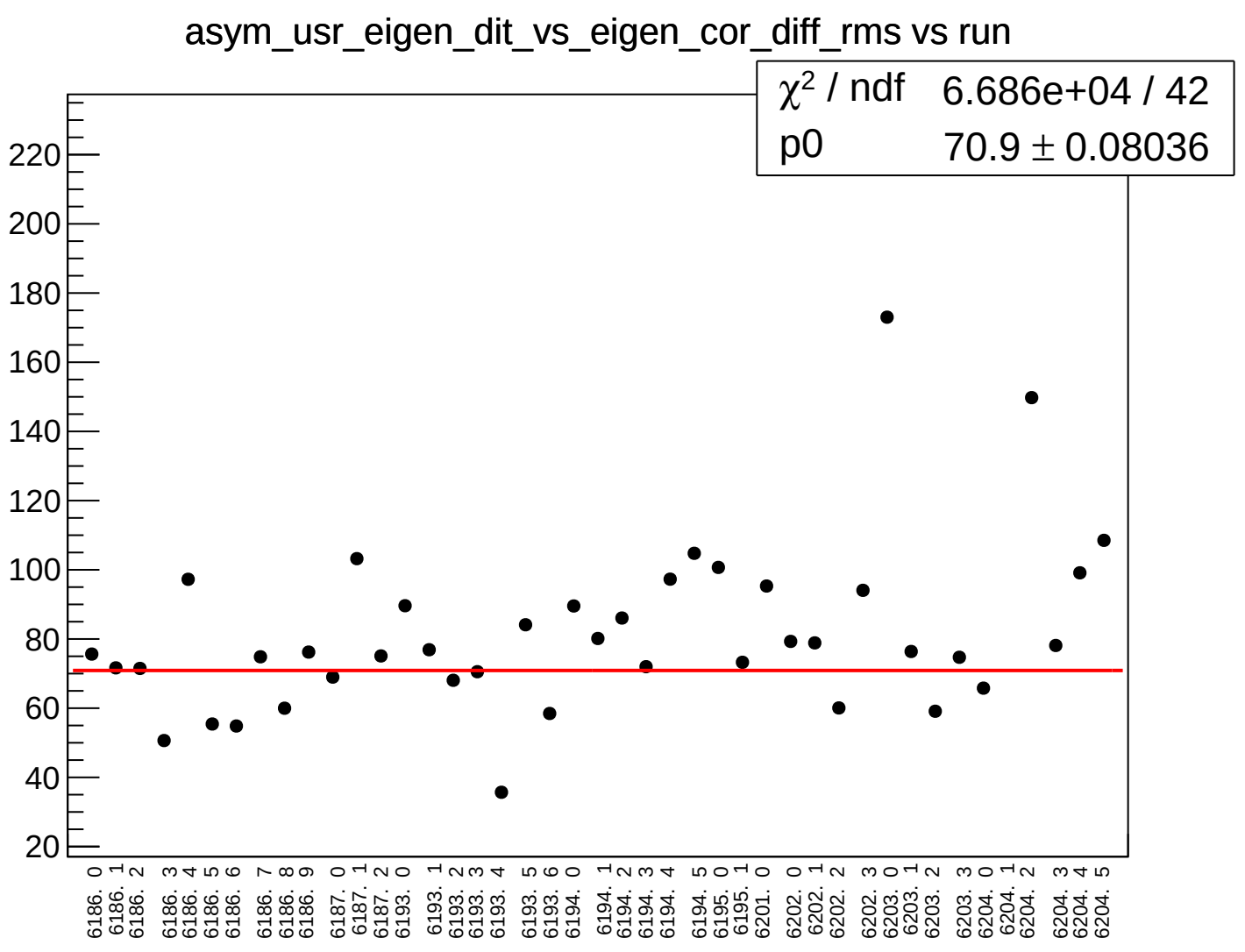

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.08 / 42
p0 −1.009e−05 ± 2.423e−05
pull
Entries 43
Mean −806.6
Std Dev 0
pull1D
Entries 43
Mean 0.00184
Std Dev 1.057

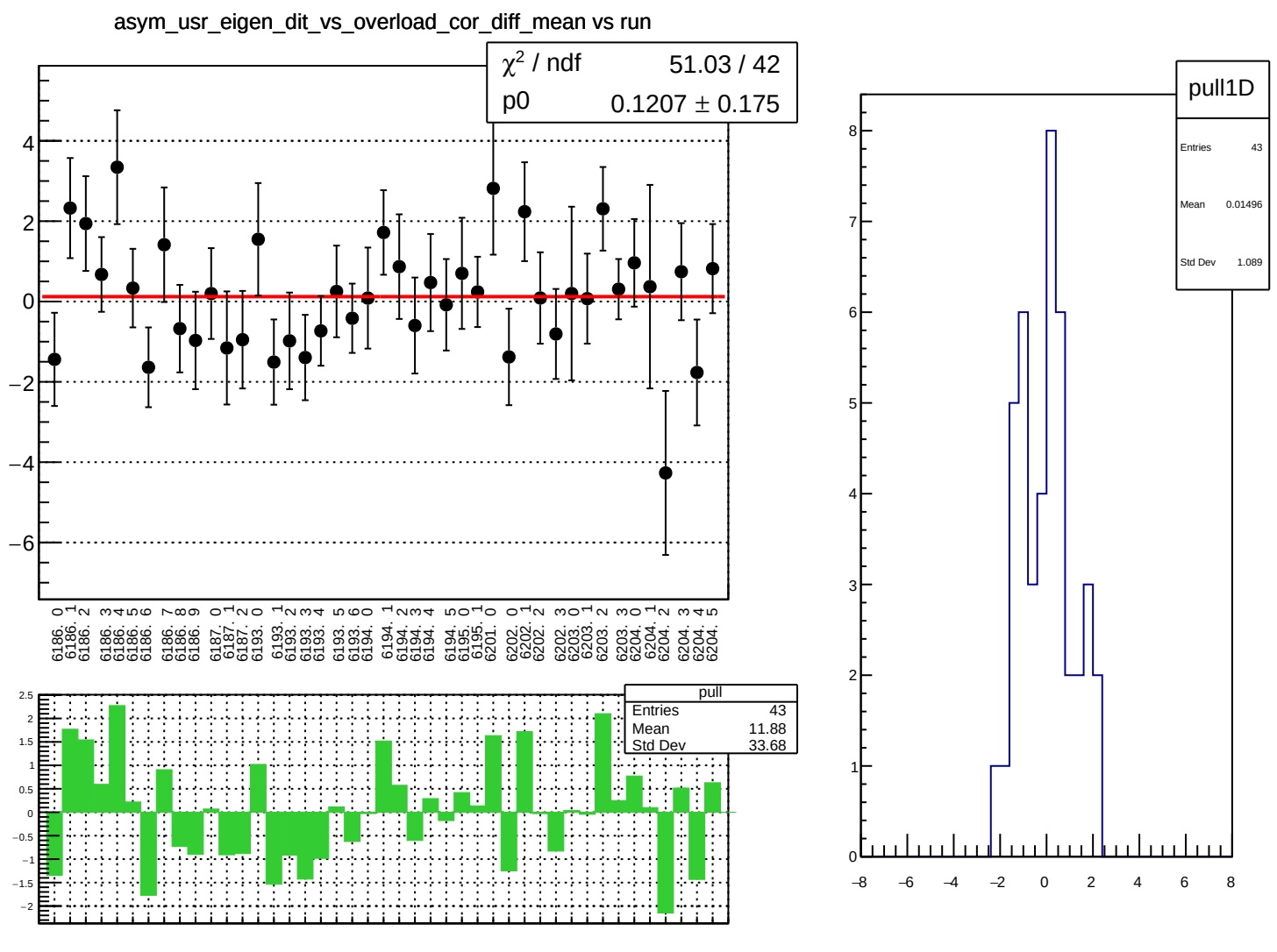

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4571 / 42
p0 0.01571 ± 1.713e–05
0.019
0.018
0.017
0.016
0.015
0.014
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

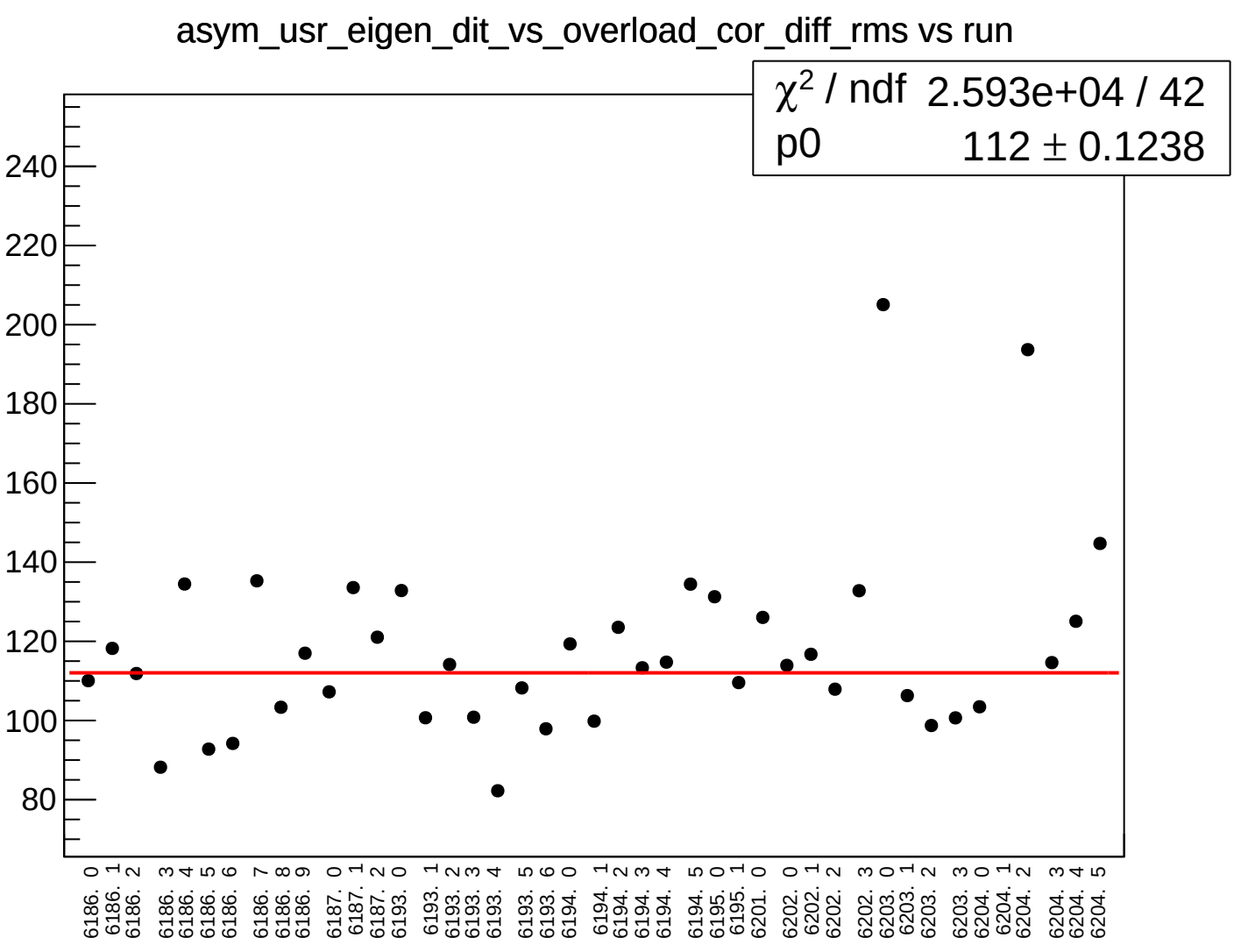

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.94 / 42
p0 0.0416 ± 0.1136
pull
Entries 43
Mean 34.78
Std Dev 0
pull1D
Entries 43
Mean 0.03356
Std Dev 1.055

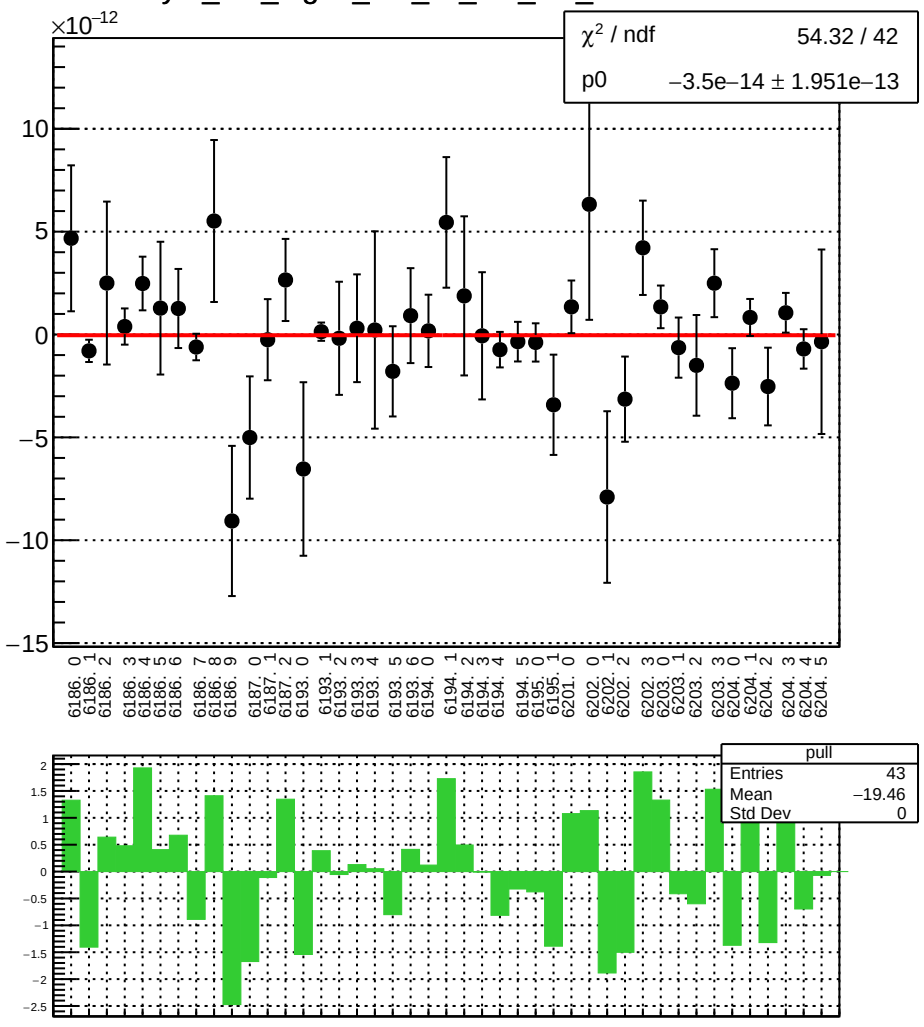

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.686e+04 / 42
p0 70.9 ± 0.08036
220
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

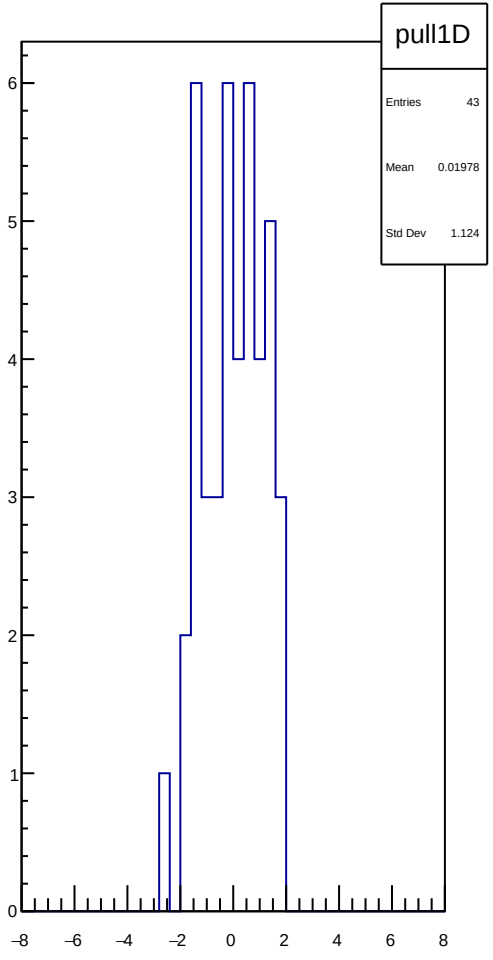

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.94 / 42
p0 0.0416 ± 0.1136
pull
Entries 43
Mean 34.78
Std Dev 0
pull1D
Entries 43
Mean 0.03356
Std Dev 1.055

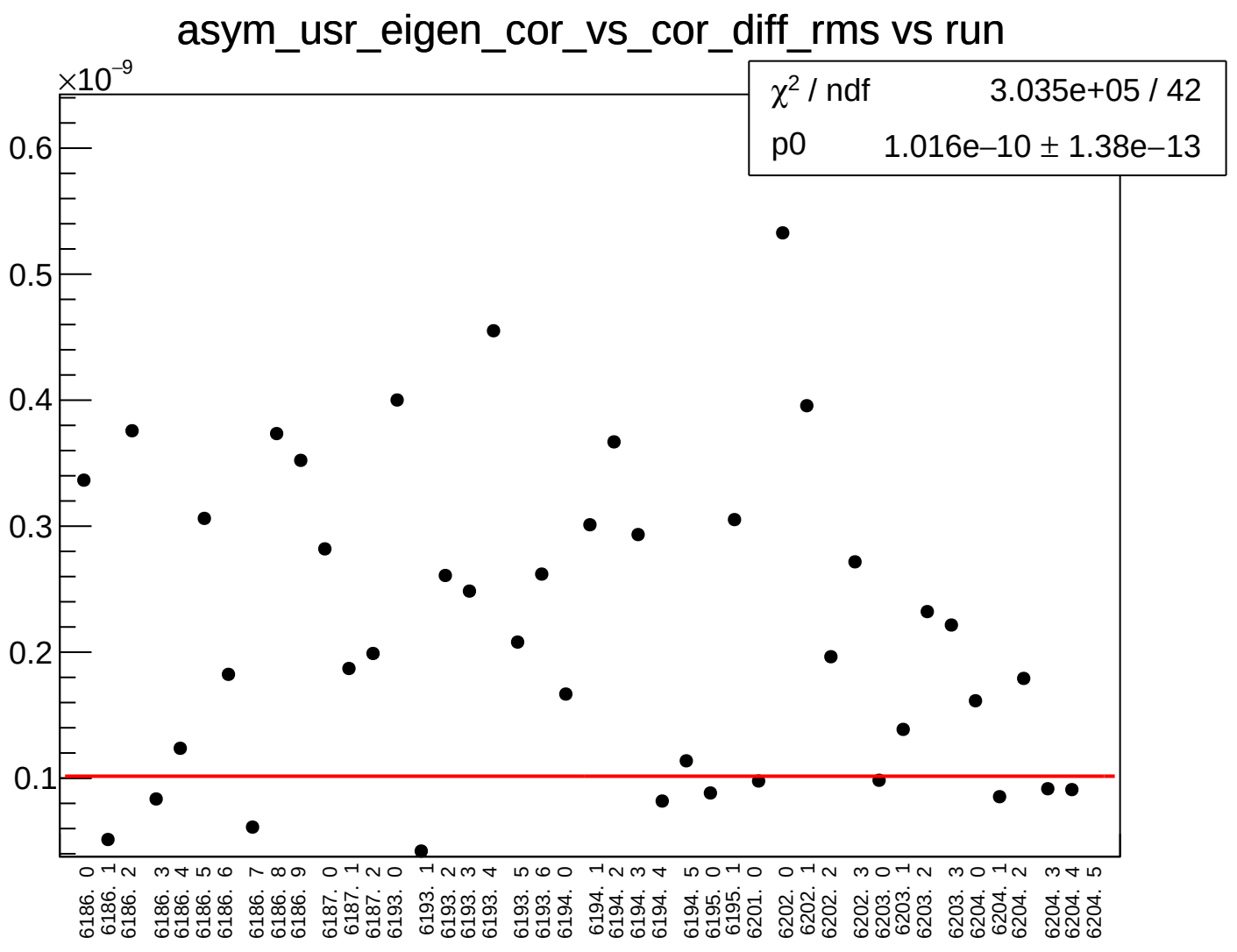

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.686e+04 / 42
p0 70.9 ± 0.08036
220
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

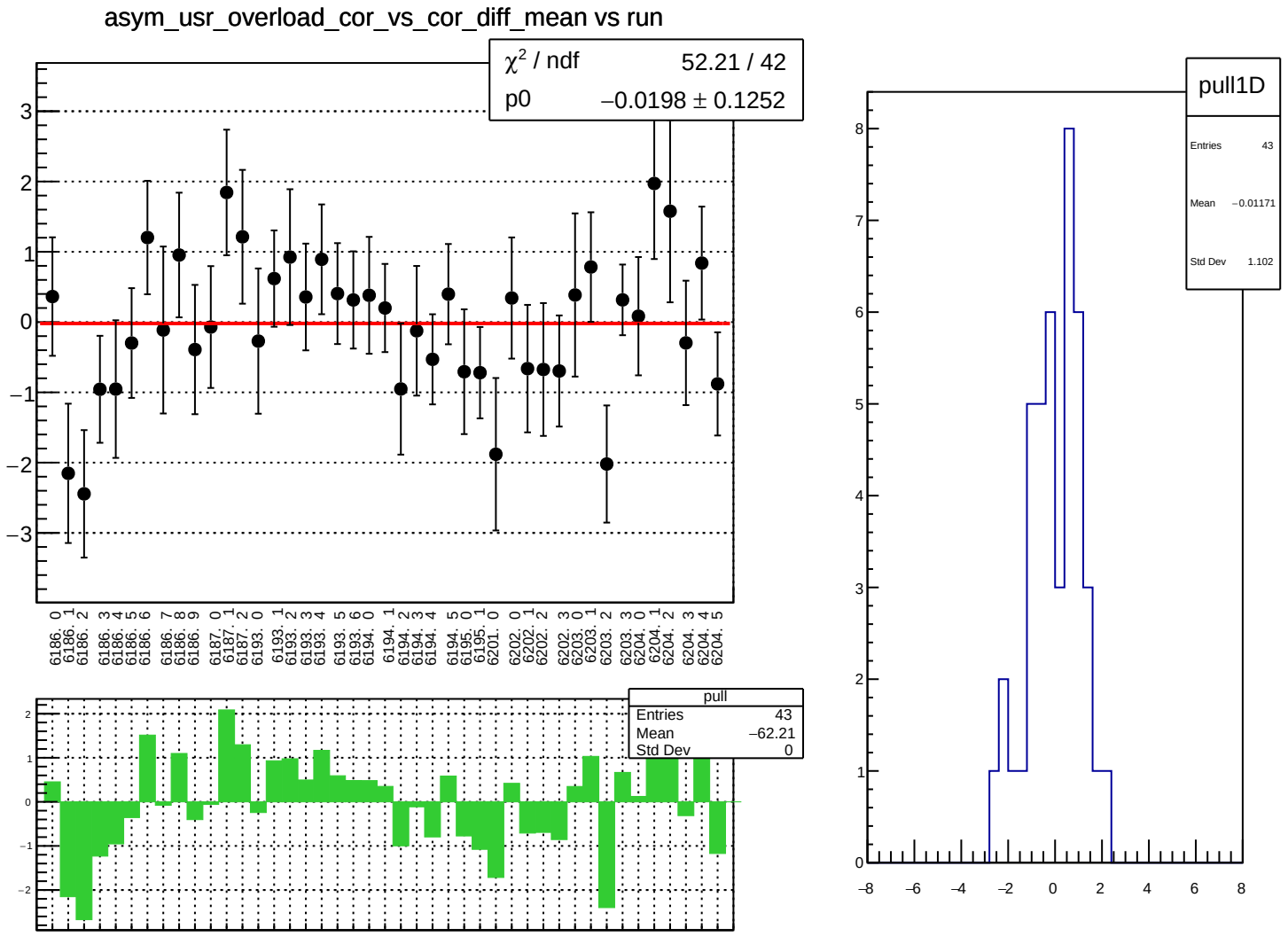

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 51.03 / 42
p0 0.1207 ± 0.175
4
2
0
−2
−4
−6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 11.88
Std Dev 33.68
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01496
Std Dev 1.089
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

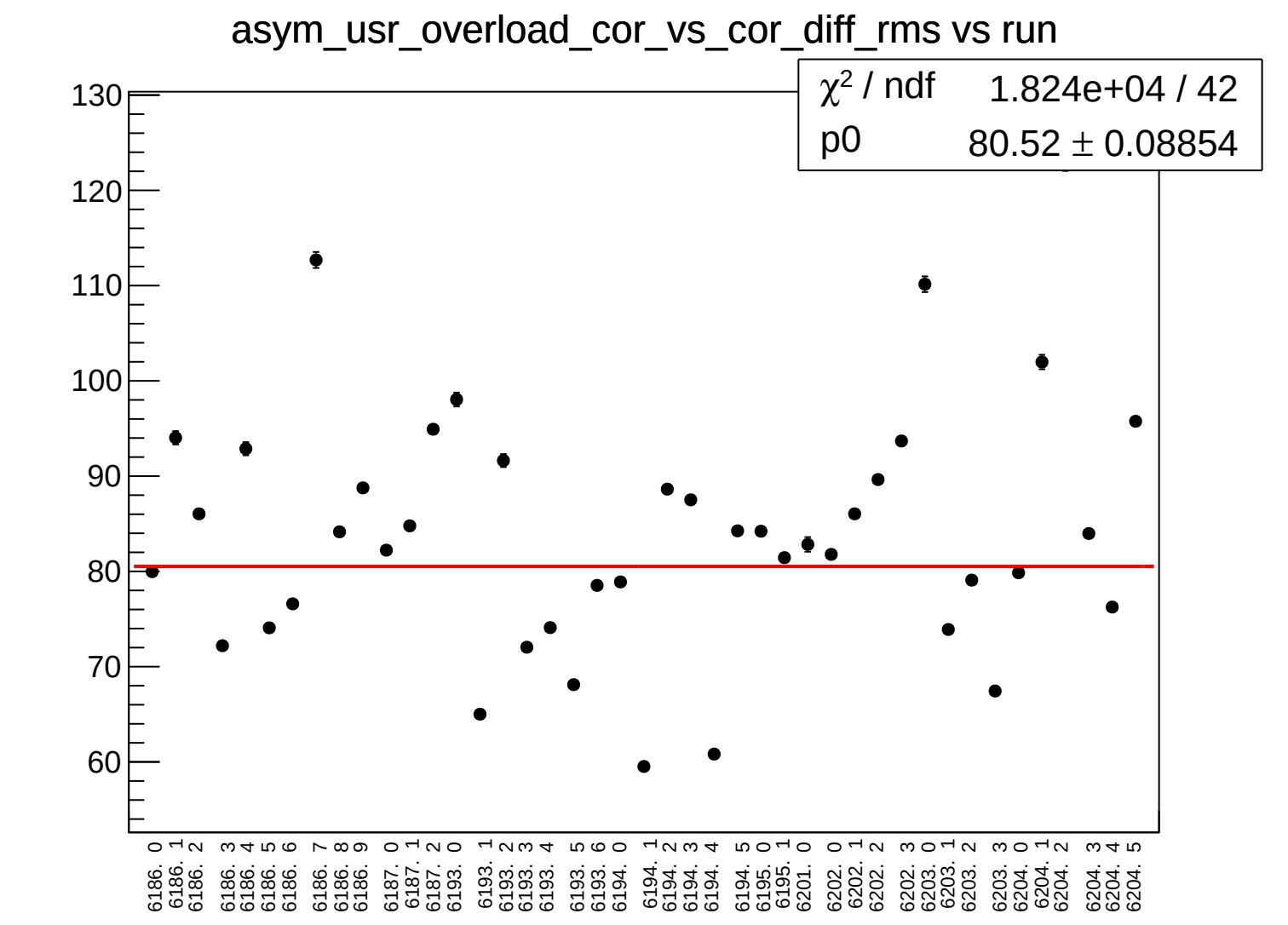

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.593e+04 / 42
p0 112 ± 0.1238
240
220
200
180
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

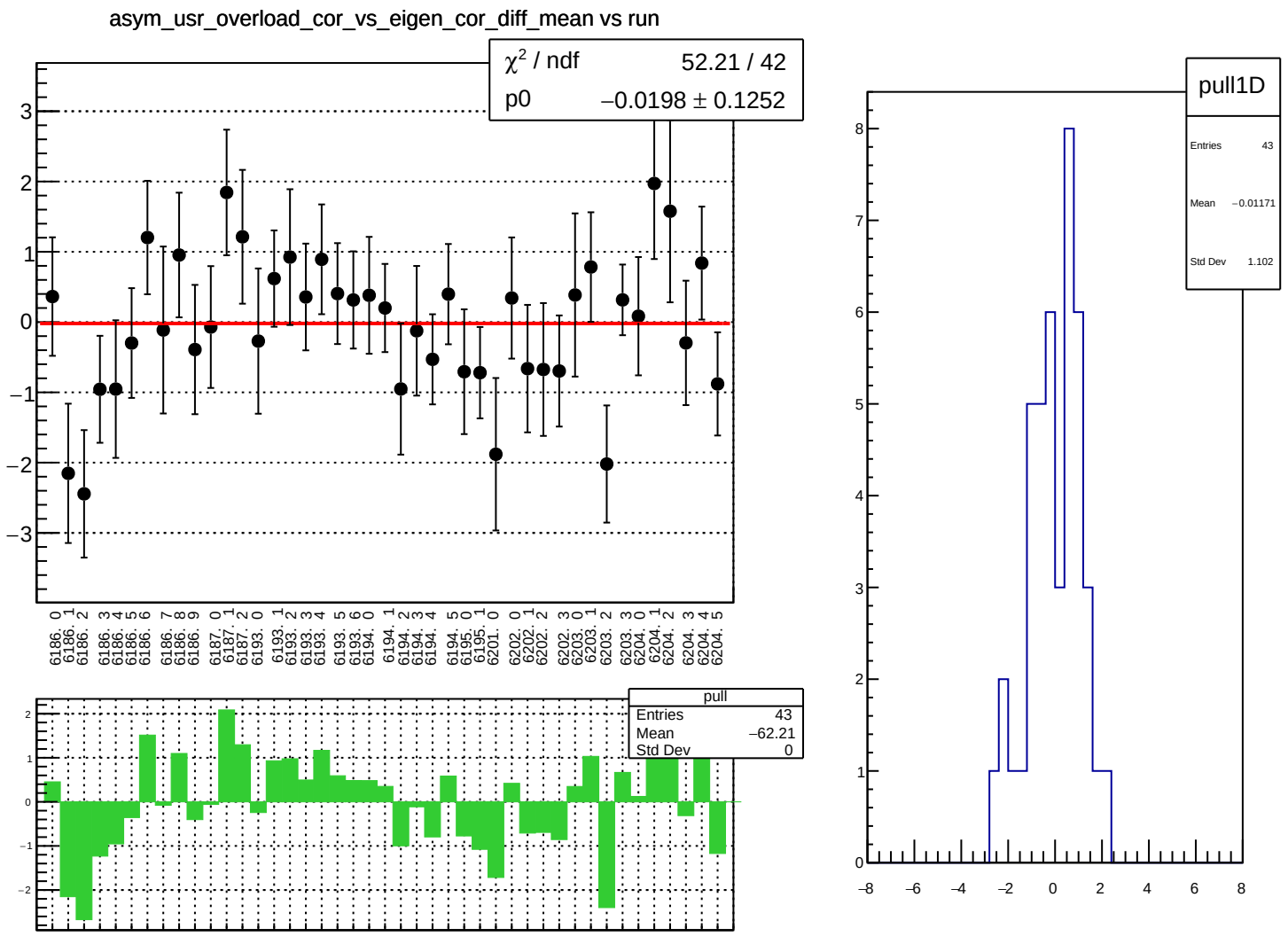

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 54.32 / 42
p0 −3.5e−14 ± 1.951e−13
10
5
0
−5
−10
−15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −19.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

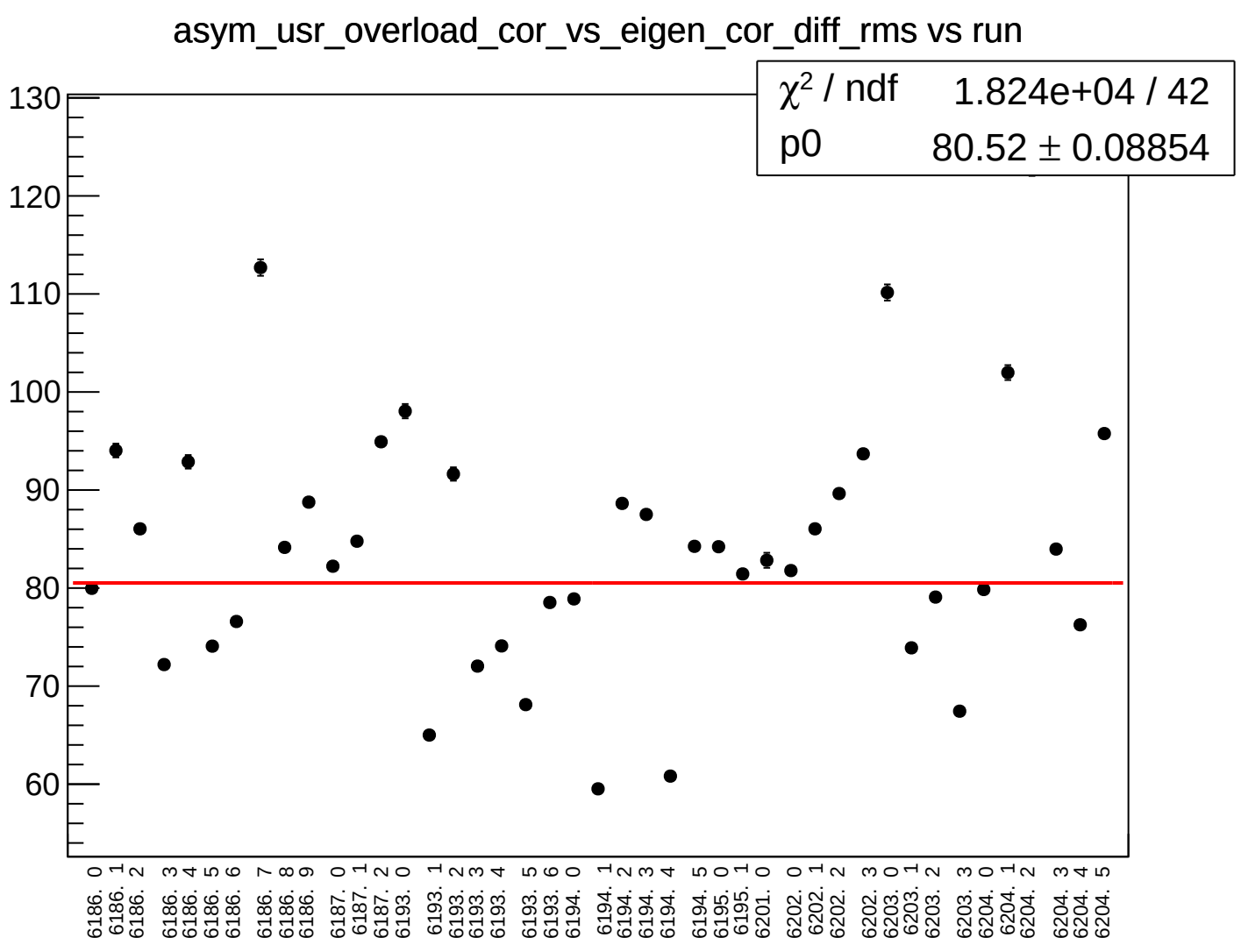

pull1D
Entries 43
Mean 0.01978
Std Dev 1.124
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

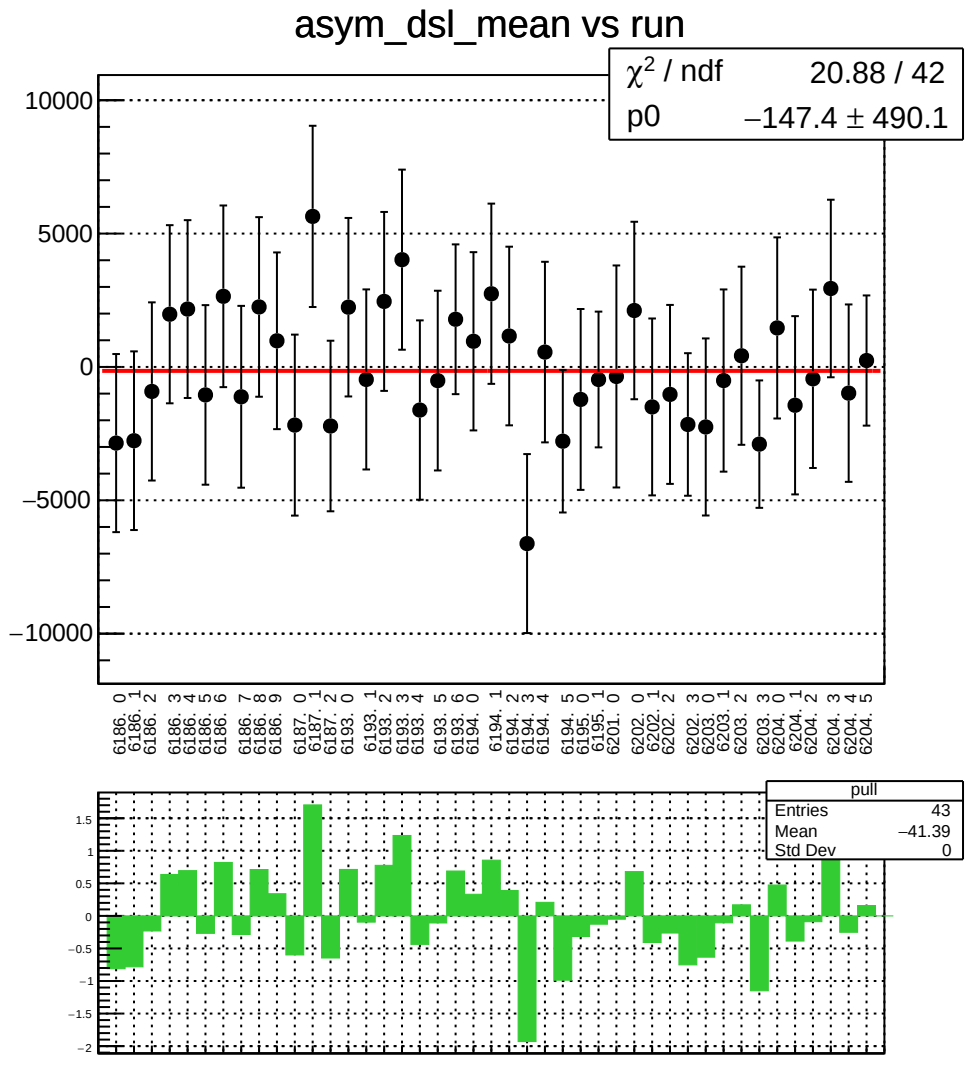

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.035e+05 / 42
p0 1.016e−10 ± 1.38e−13
0.6
0.5
0.4
0.3
0.2
0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

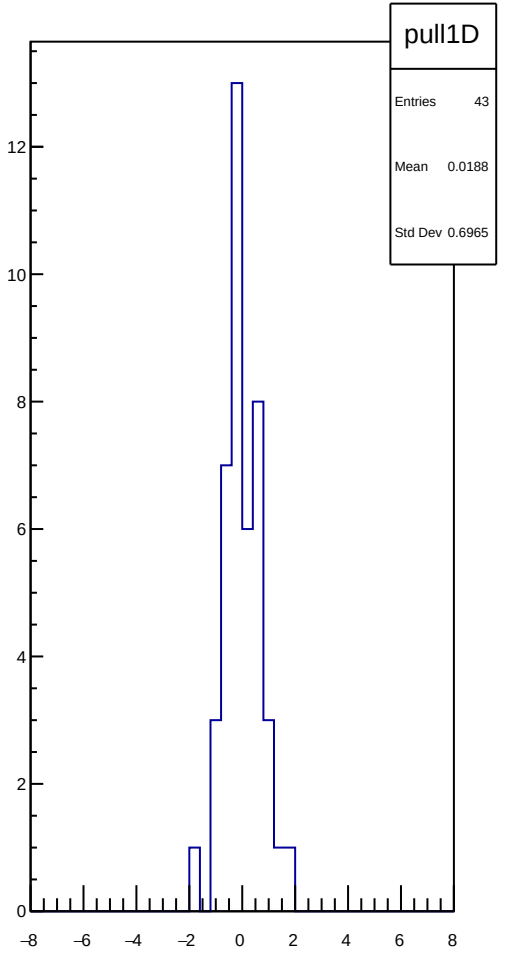

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 52.21 / 42
p0 −0.0198 ± 0.1252
pull
Entries 43
Mean −62.21
Std Dev 0
pull1D
Entries 43
Mean −0.01171
Std Dev 1.102

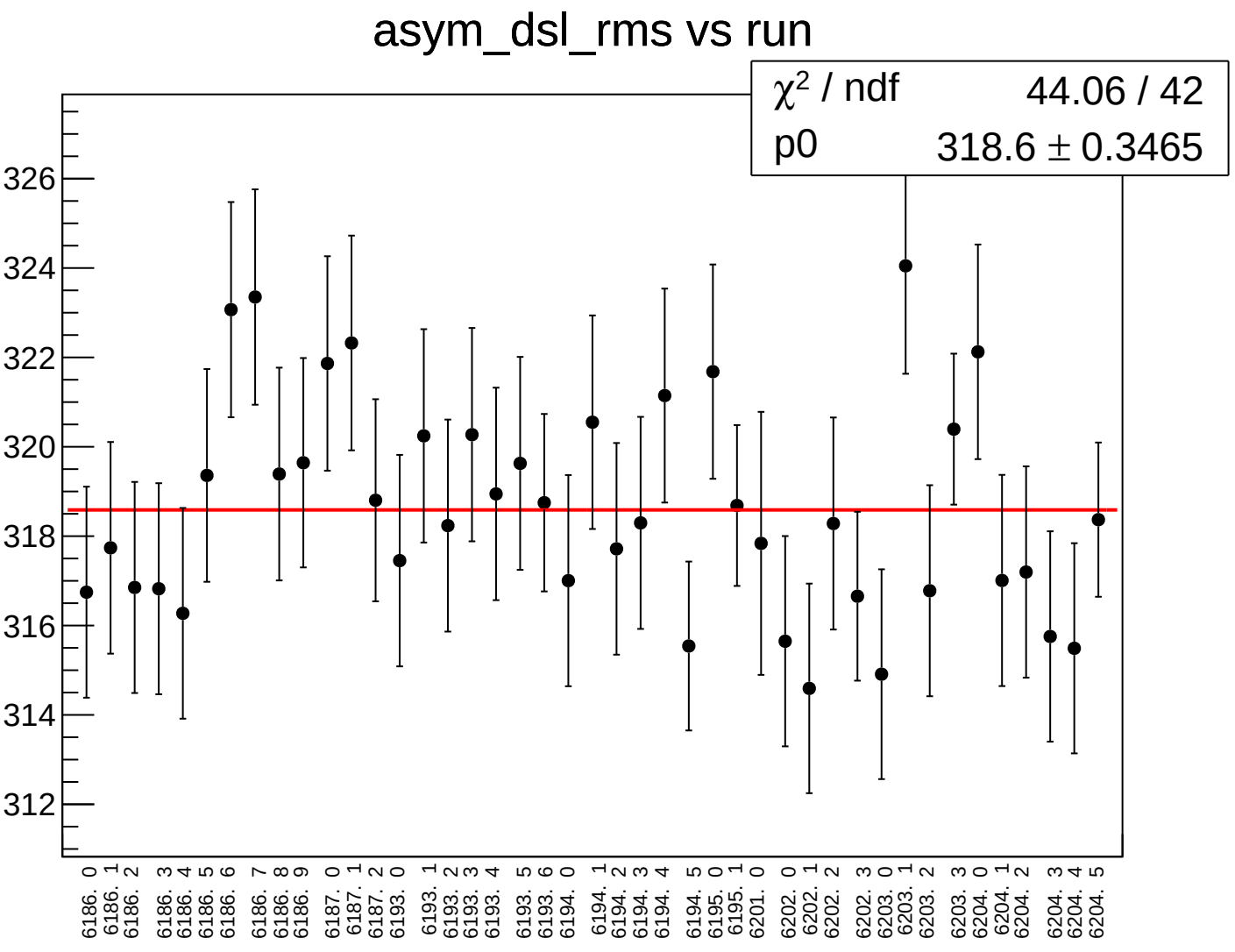

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.824e+04 / 42
p0 80.52 ± 0.08854
130
120
110
100
90
80
70
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

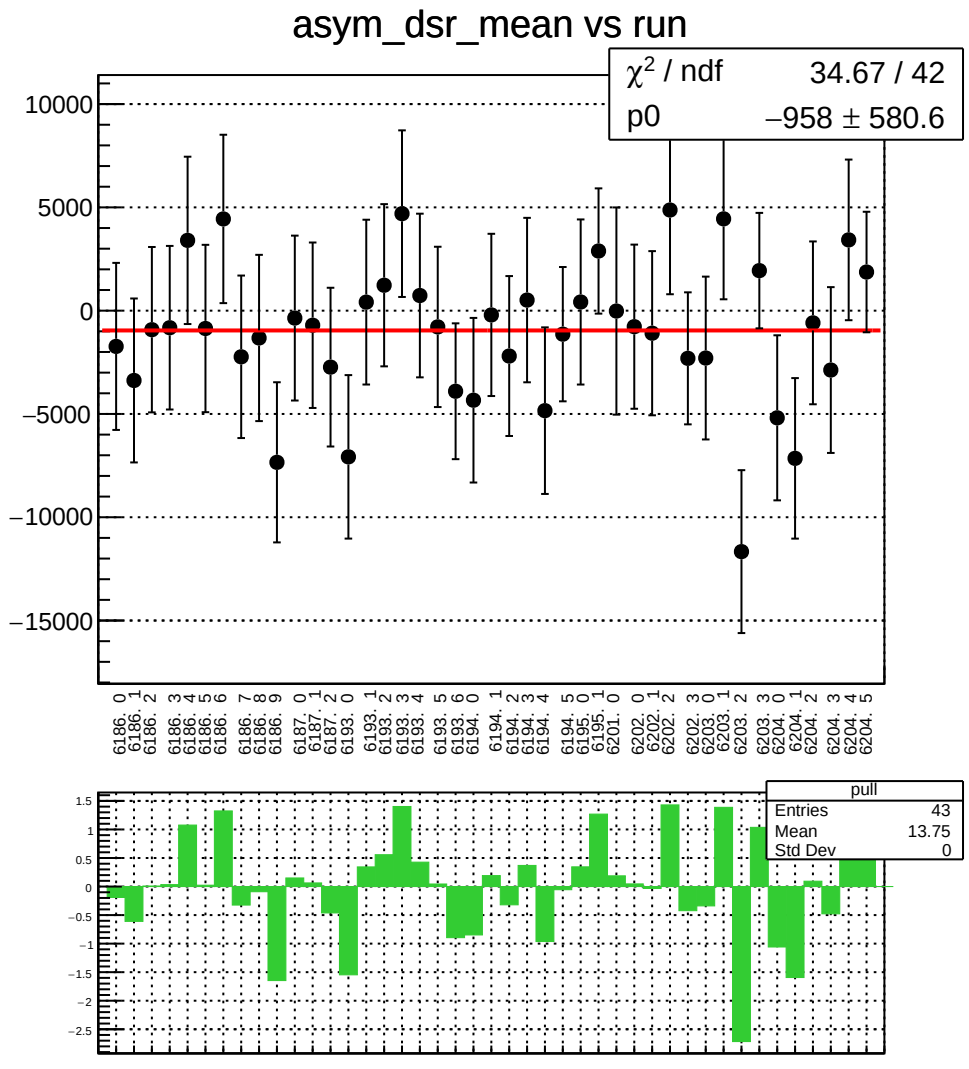

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.21 / 42
p0 −0.0198 ± 0.1252
pull
Entries 43
Mean −62.21
Std Dev 0
pull1D
Entries 43
Mean −0.01171
Std Dev 1.102

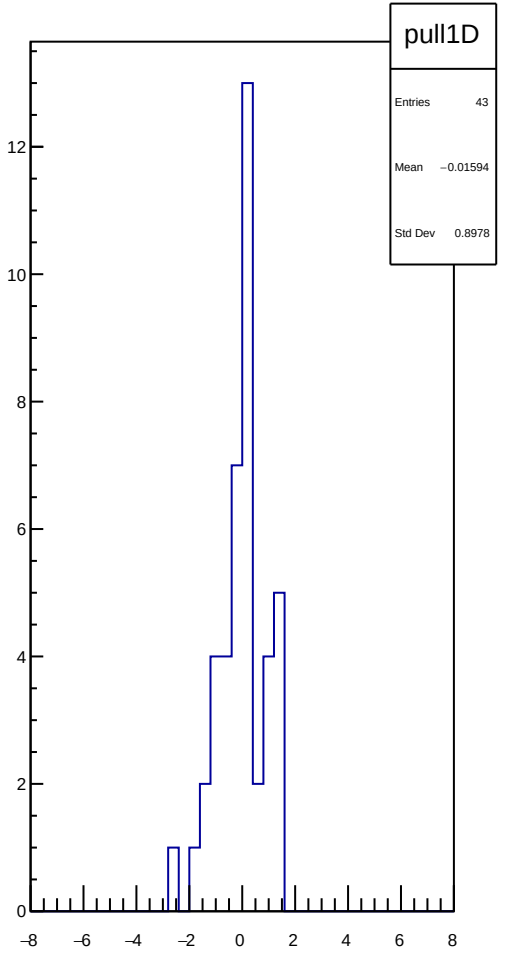

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.824e+04 / 42
p0 80.52 ± 0.08854
130
120
110
100
90
80
70
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

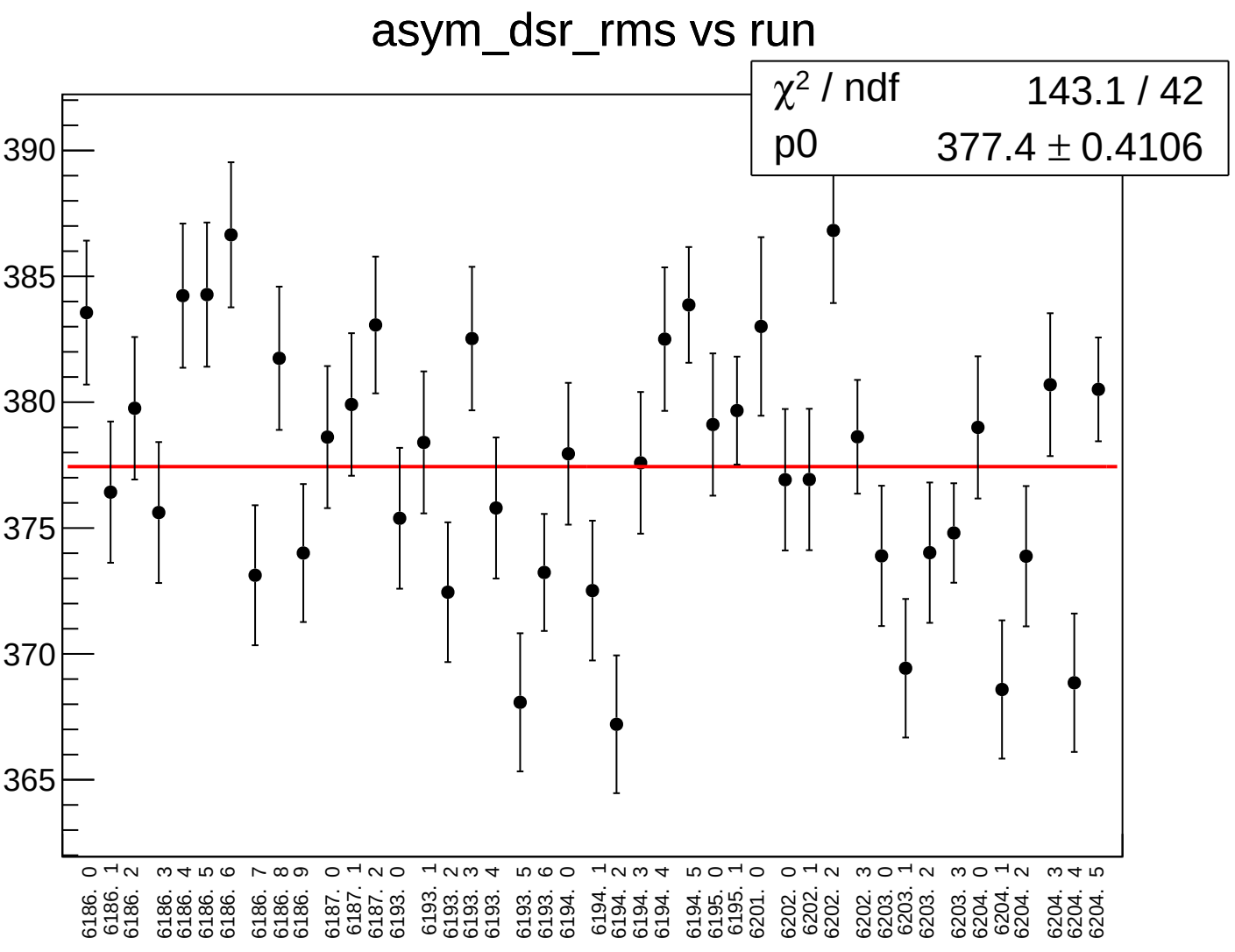

asym_dsl_mean vs run
χ² / ndf 20.88 / 42
p0 −147.4 ± 490.1
10000
5000
0
−5000
−10000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −41.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

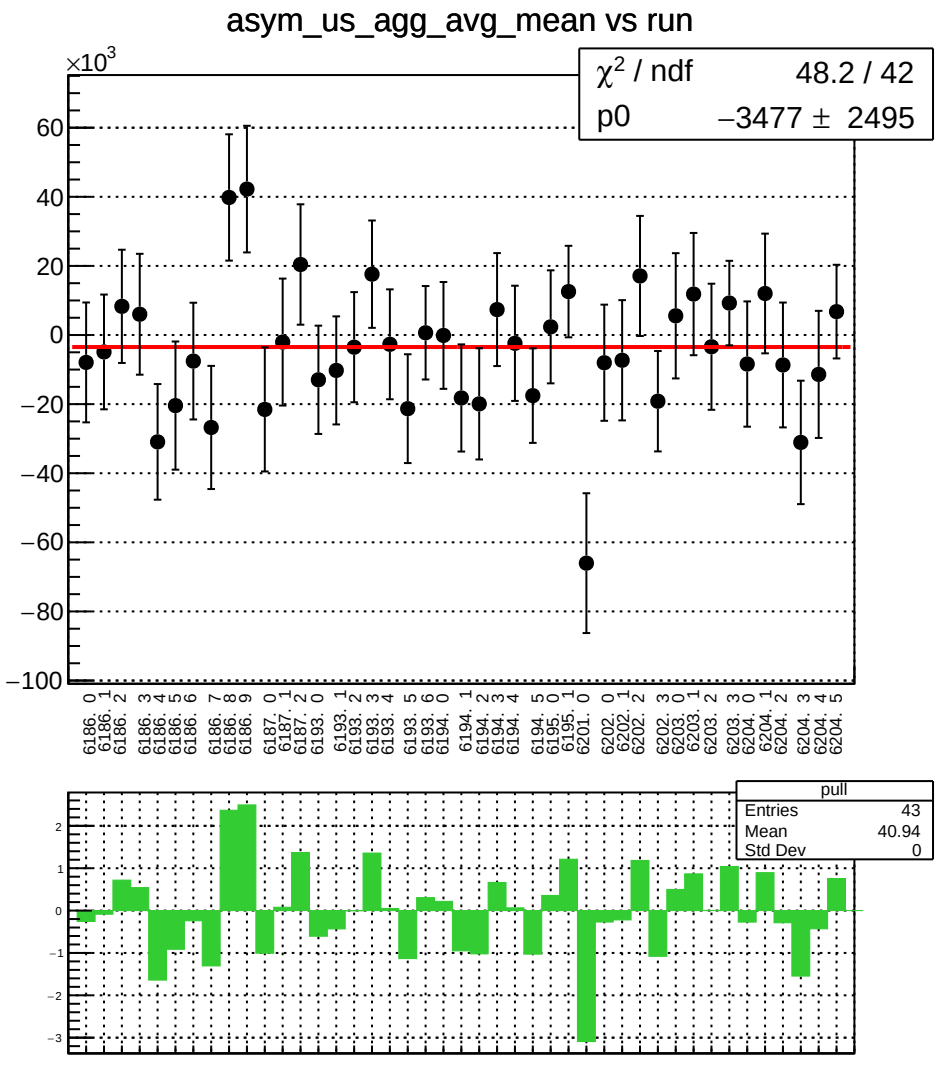

pull1D
Entries 43
Mean 0.0188
Std Dev 0.6965
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

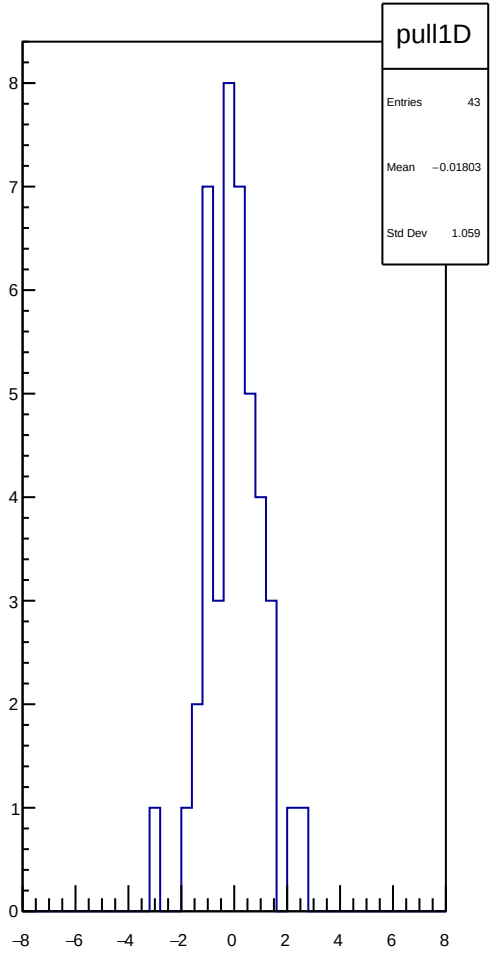

asym_dsl_rms vs run
χ² / ndf 44.06 / 42
p0 318.6 ± 0.3465
326
324
322
320
318
316
314
312
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

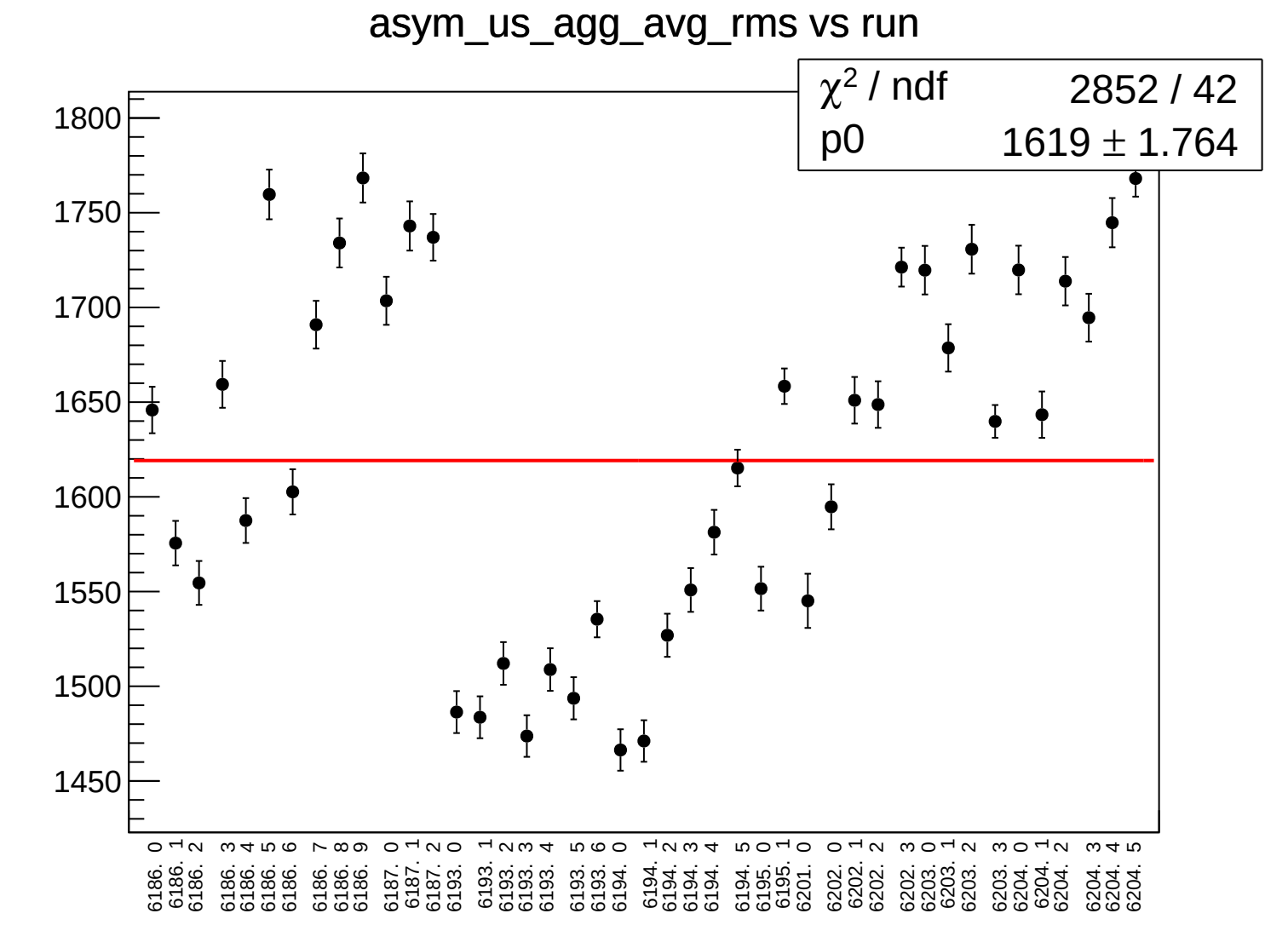

asym_dsr_mean vs run
χ² / ndf 34.67 / 42
p0 −958 ± 580.6
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 13.75
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

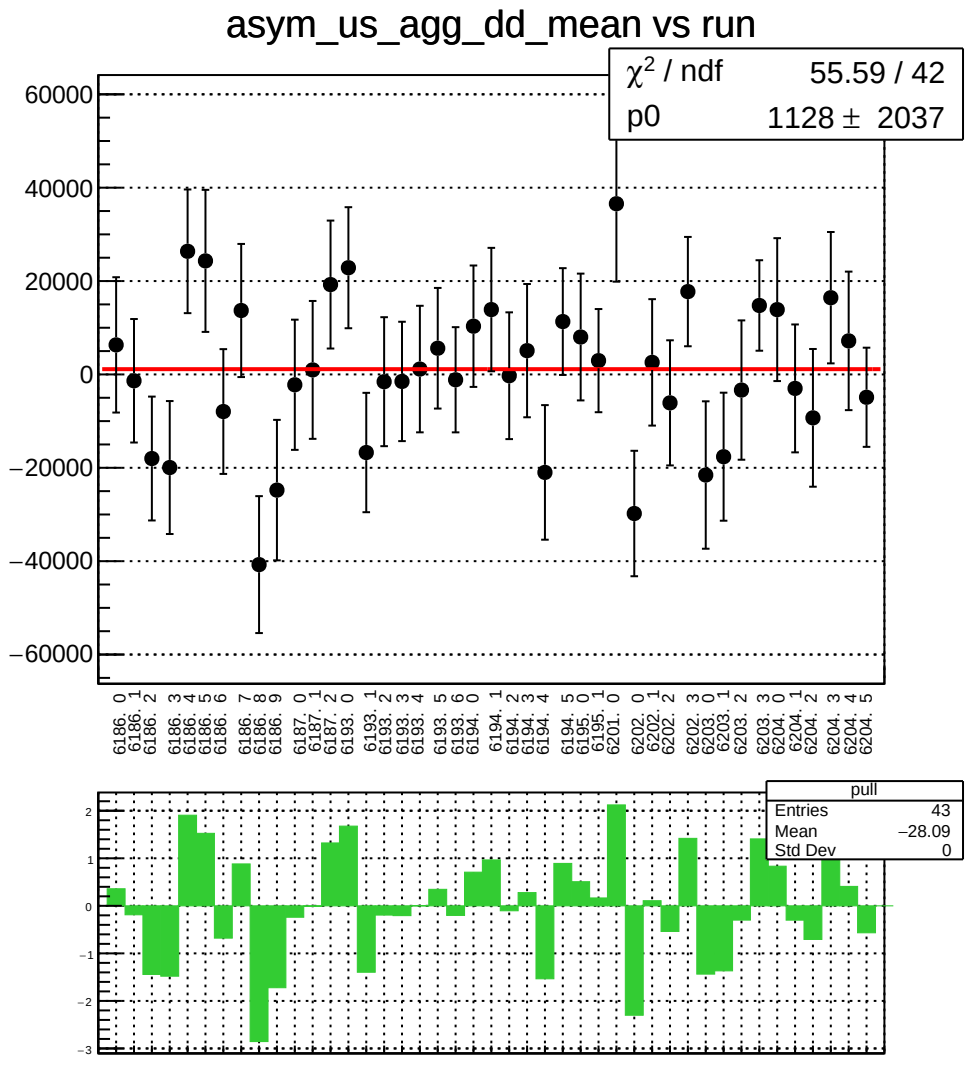

pull1D
Entries 43
Mean −0.01594
Std Dev 0.8978
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

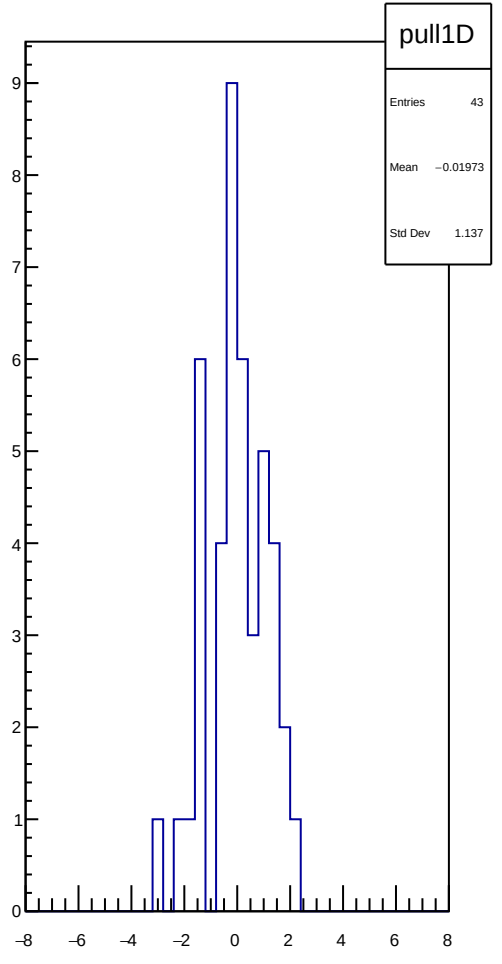

asym_dsr_rms vs run
χ² / ndf 143.1 / 42
p0 377.4 ± 0.4106
390
385
380
375
370
365
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

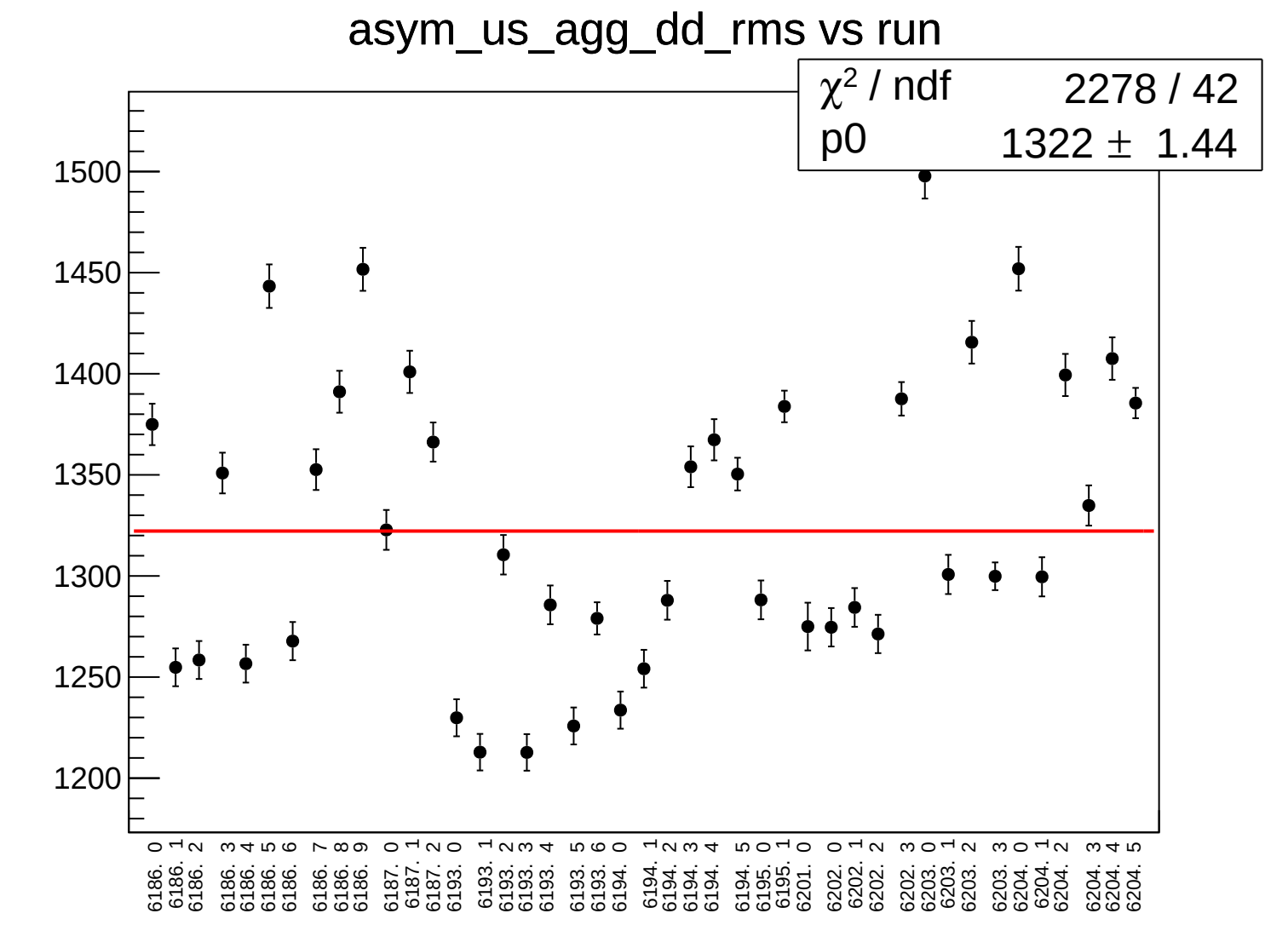

asym_us_agg_avg_mean vs run
×10^3
χ² / ndf 48.2 / 42
p0 −3477 ± 2495
pull
Entries 43
Mean 40.94
Std Dev 0

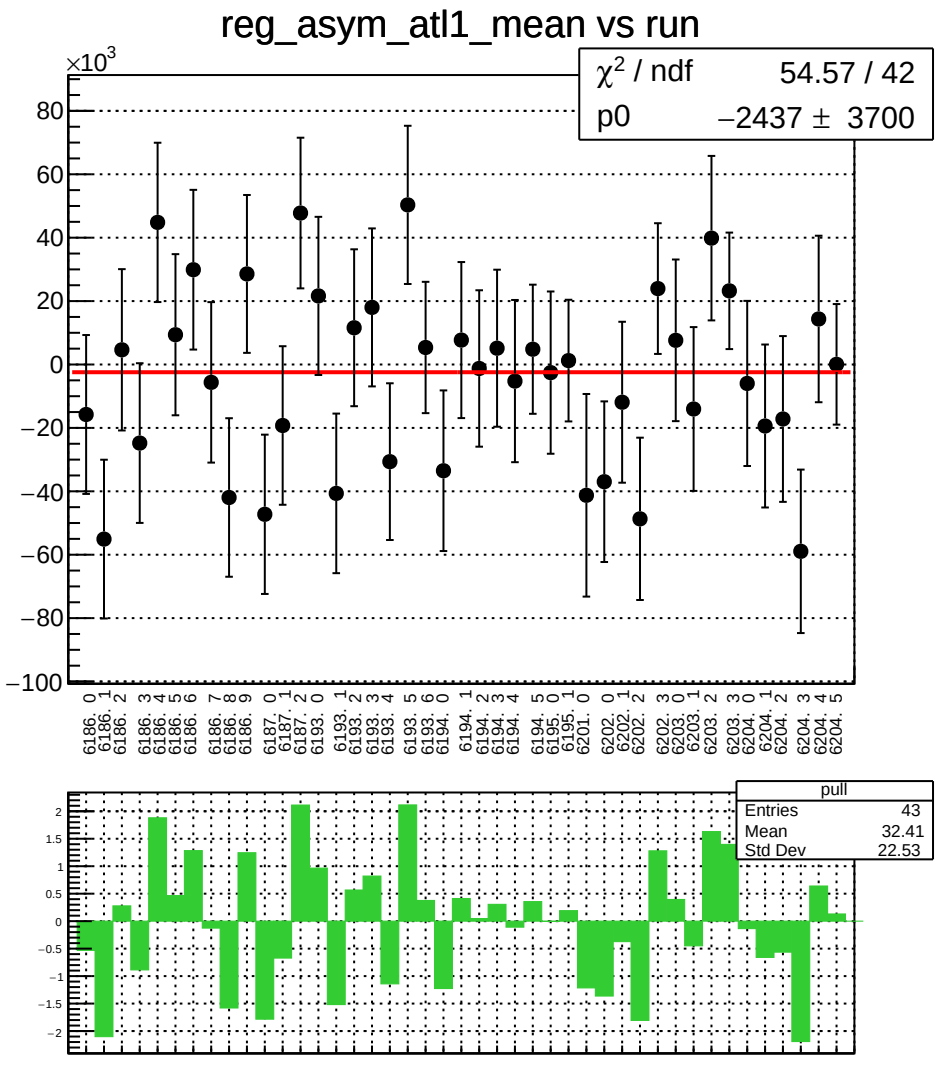

pull1D
Entries 43
Mean −0.01803
Std Dev 1.059

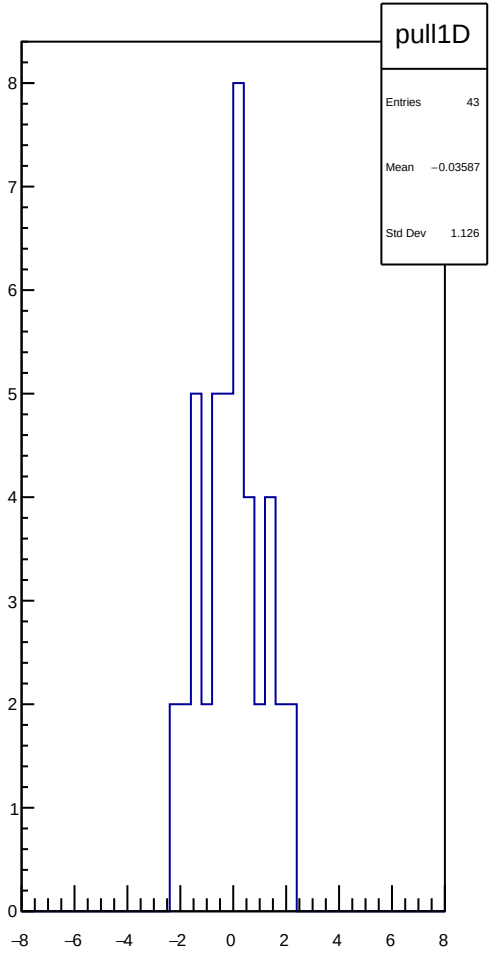

asym_us_agg_avg_rms vs run
χ² / ndf 2852 / 42
p0 1619 ± 1.764
1800
1750
1700
1650
1600
1550
1500
1450
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

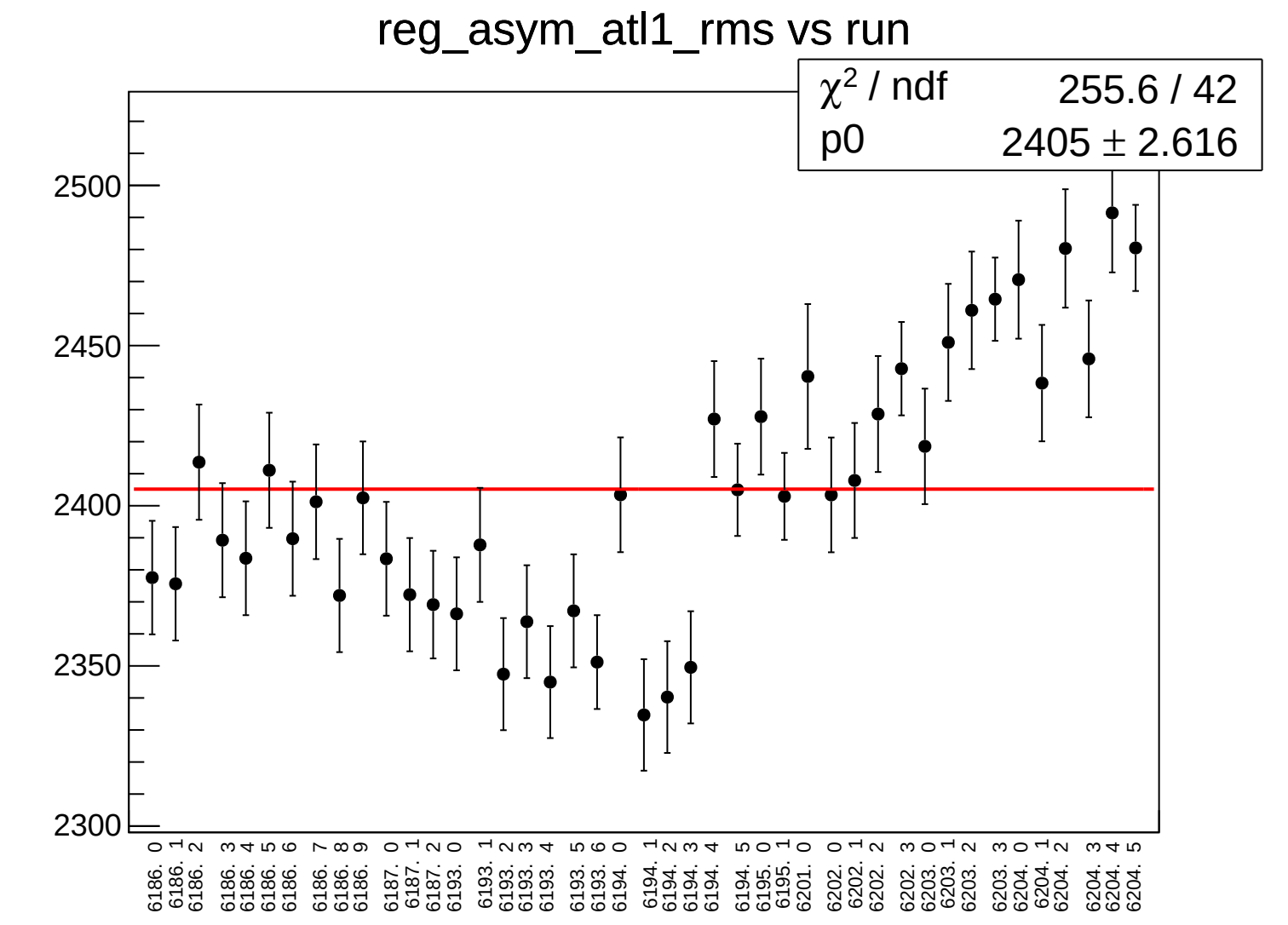

asym_us_agg_dd_mean vs run
χ² / ndf 55.59 / 42
p0 1128 ± 2037
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −28.09
Std Dev 0
2
1
0
−1
−2
−3

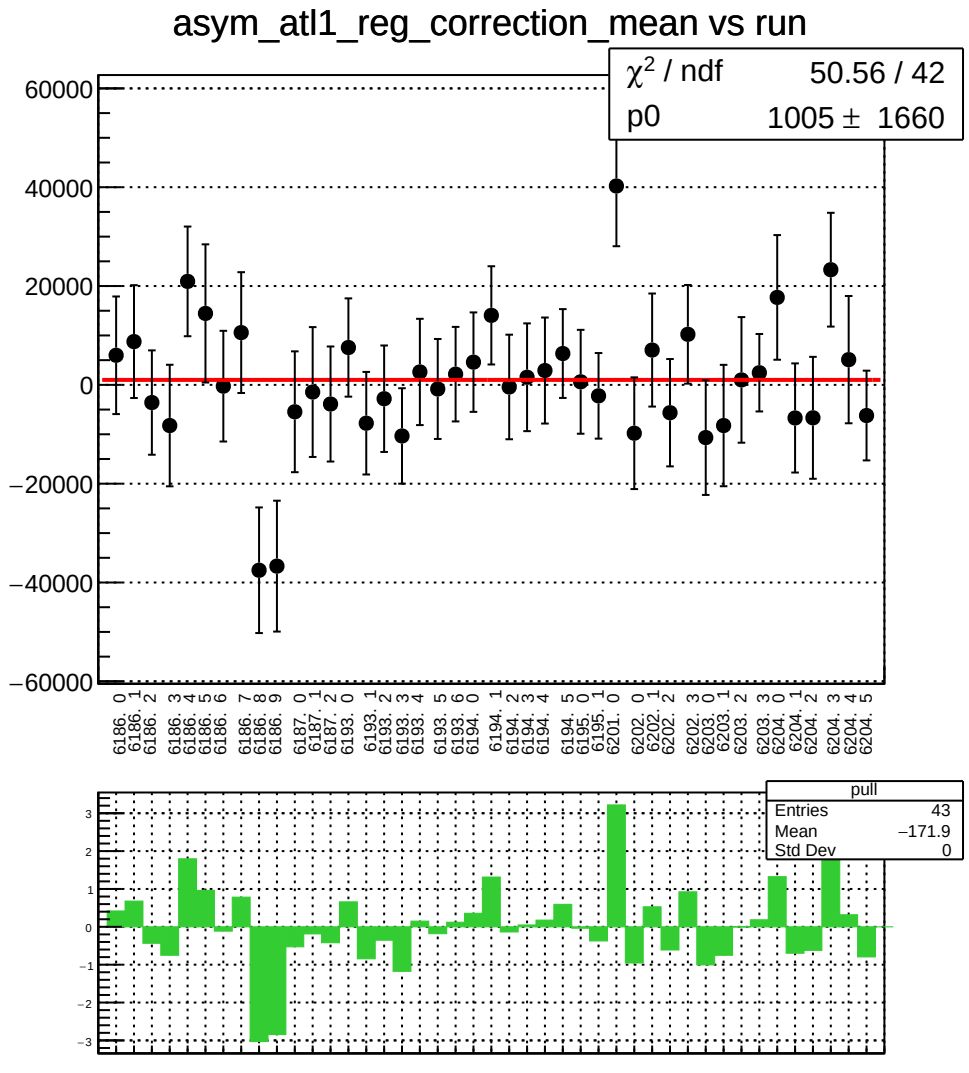

pull1D
Entries 43
Mean −0.01973
Std Dev 1.137
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

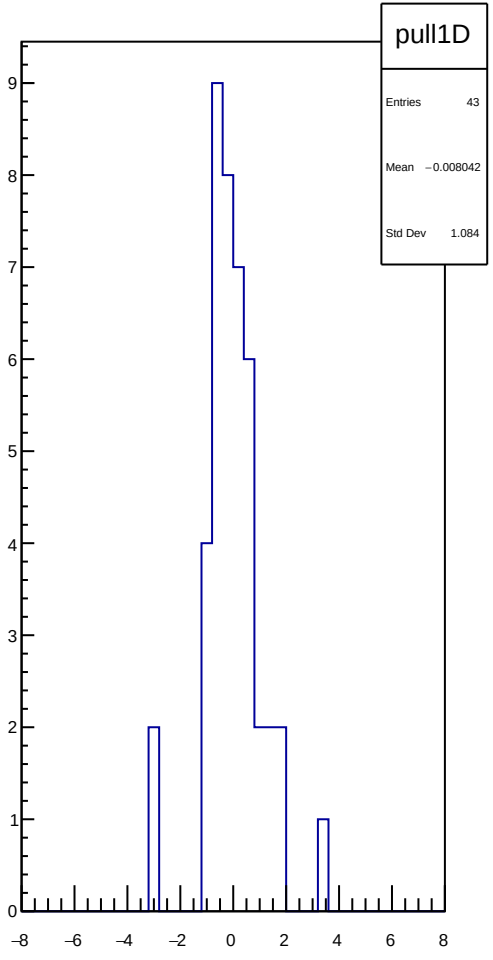

asym_us_agg_dd_rms vs run
χ² / ndf 2278 / 42
p0 1322 ± 1.44
1500
1450
1400
1350
1300
1250
1200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

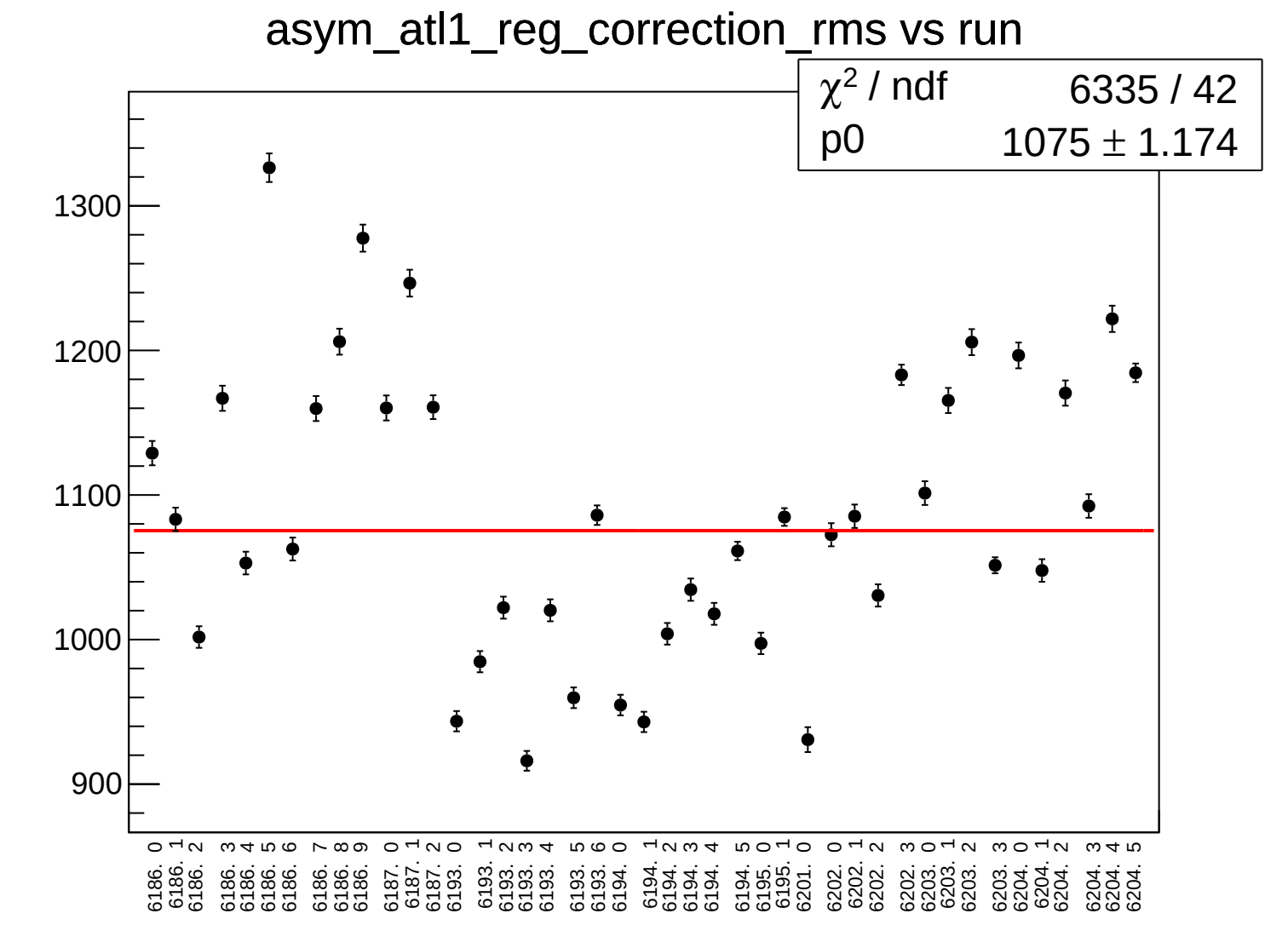

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 54.57 / 42
p0 −2437 ± 3700
80
60
40
20
0
−20
−40
−60
−80
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 32.41
Std Dev 22.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

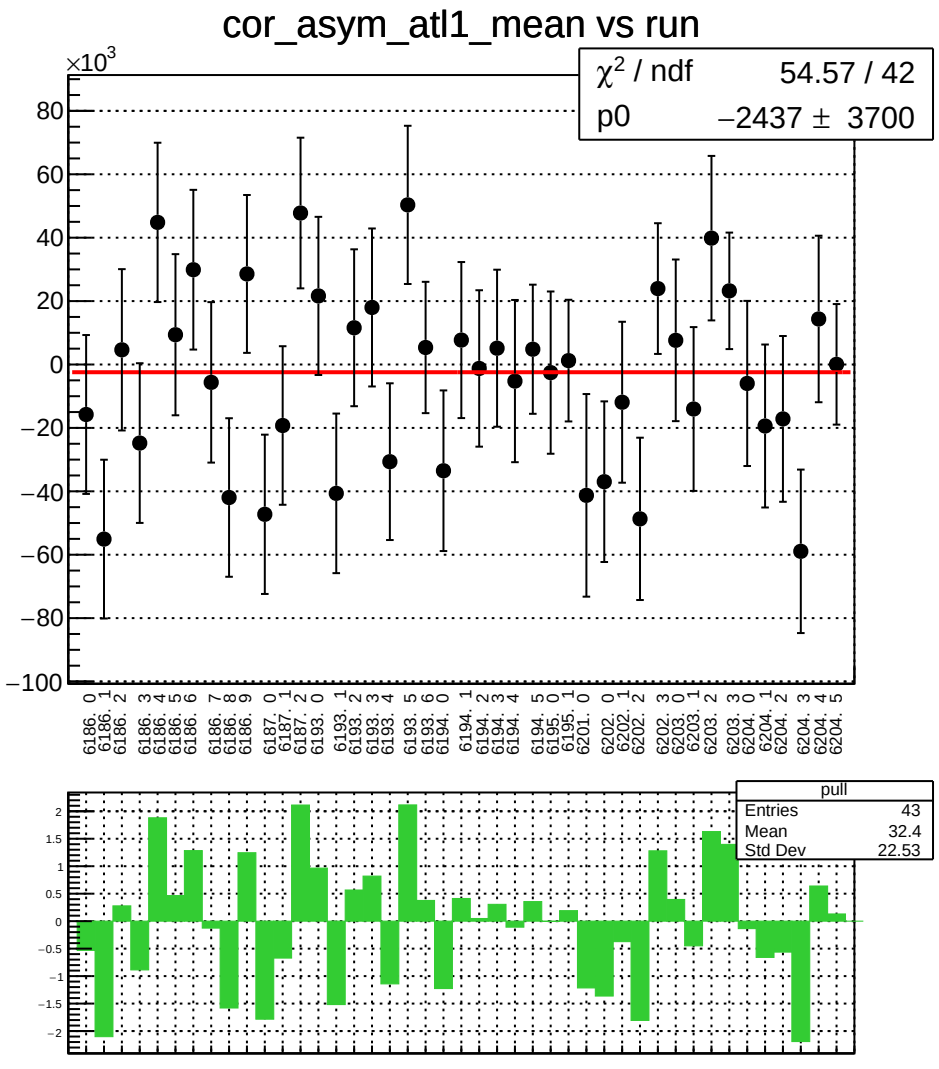

pull1D
Entries 43
Mean −0.03587
Std Dev 1.126
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

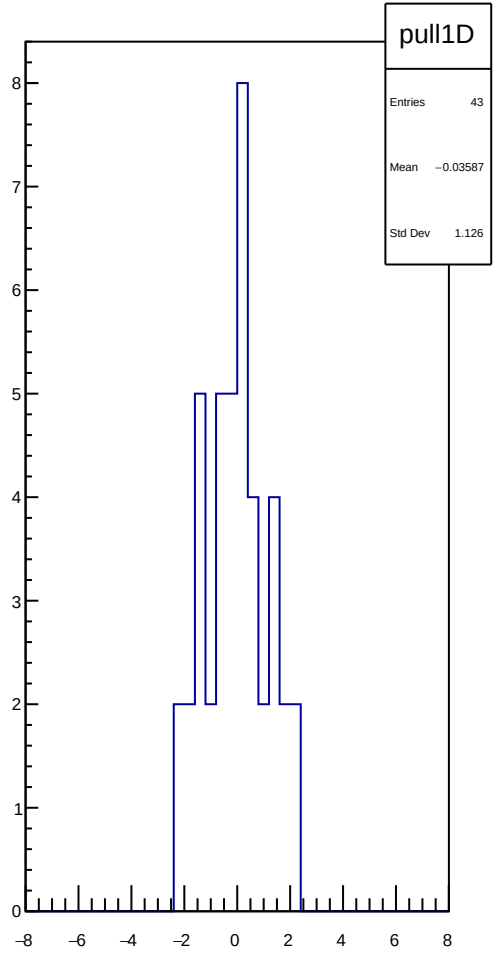

reg_asym_atl1_rms vs run
χ² / ndf 255.6 / 42
p0 2405 ± 2.616
2500
2450
2400
2350
2300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

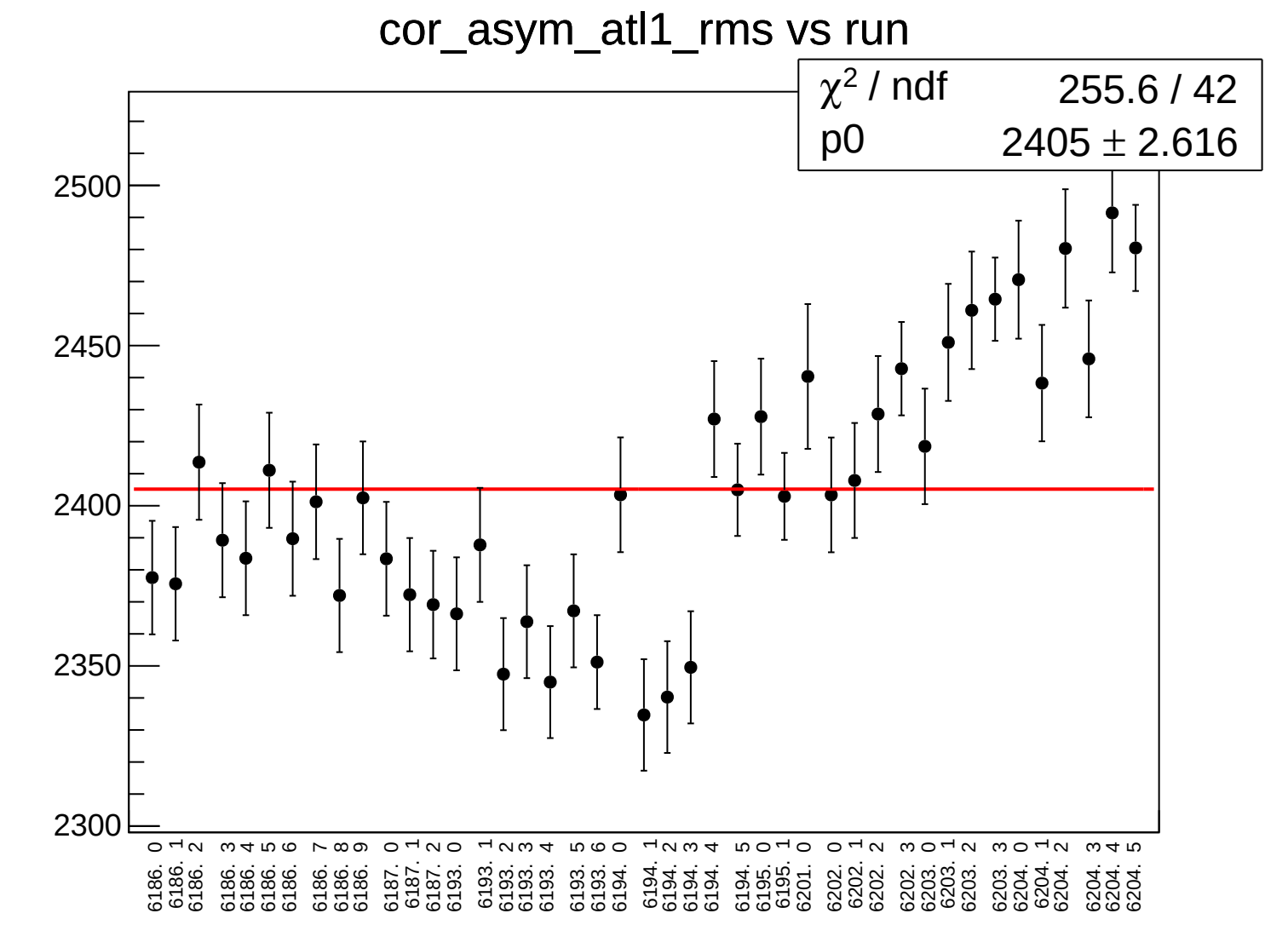

asym_atl1_reg_correction_mean vs run
χ² / ndf 50.56 / 42
p0 1005 ± 1660
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −171.9
Std Dev 0
3
2
1
0
−1
−2
−3

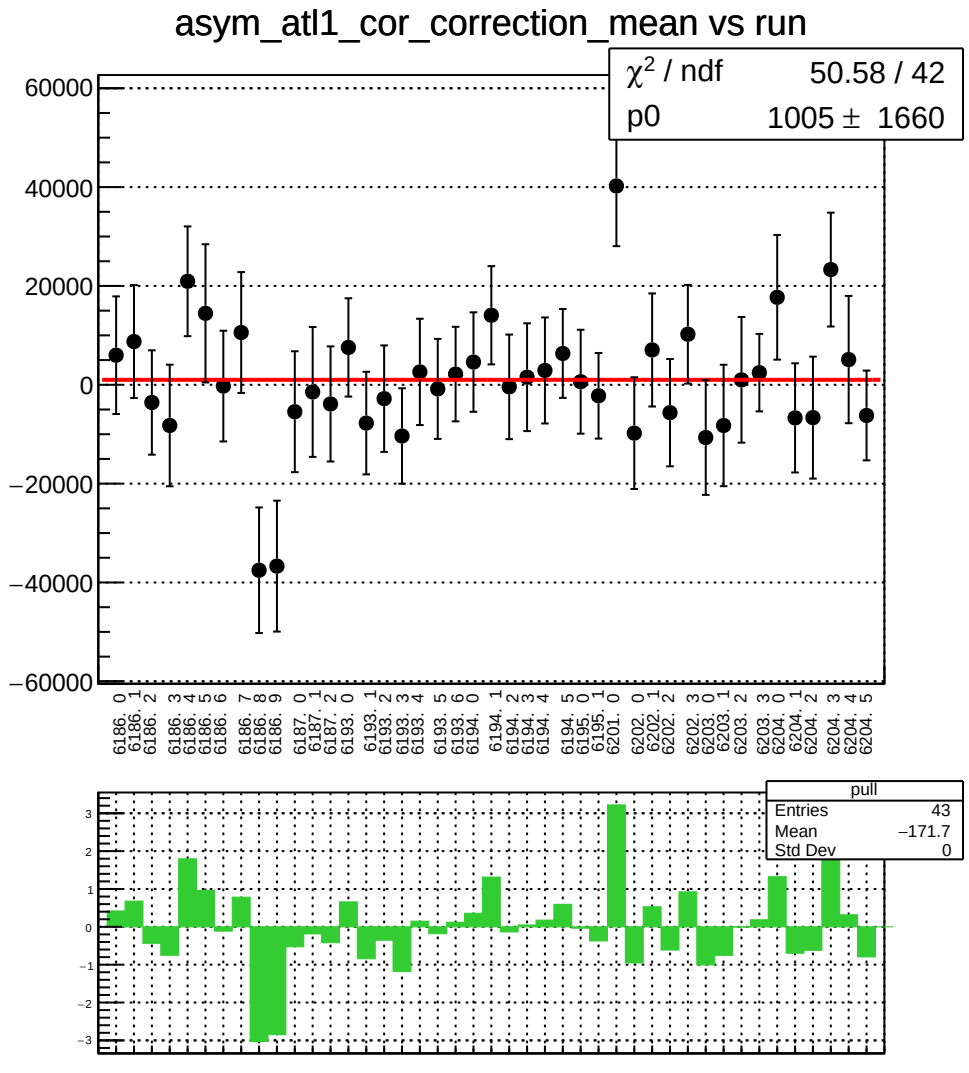

pull1D
Entries 43
Mean −0.008042
Std Dev 1.084
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

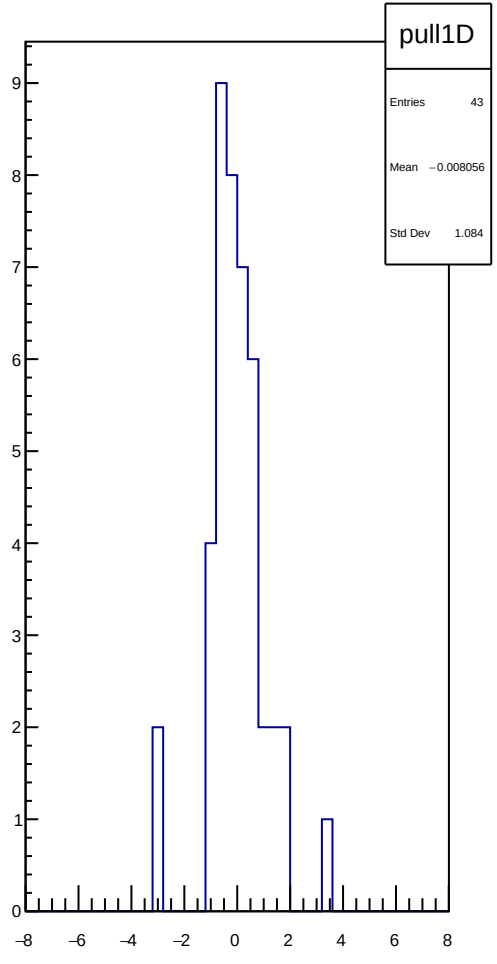

asym_atl1_reg_correction_rms vs run
χ² / ndf 6335 / 42
p0 1075 ± 1.174
1300
1200
1100
1000
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

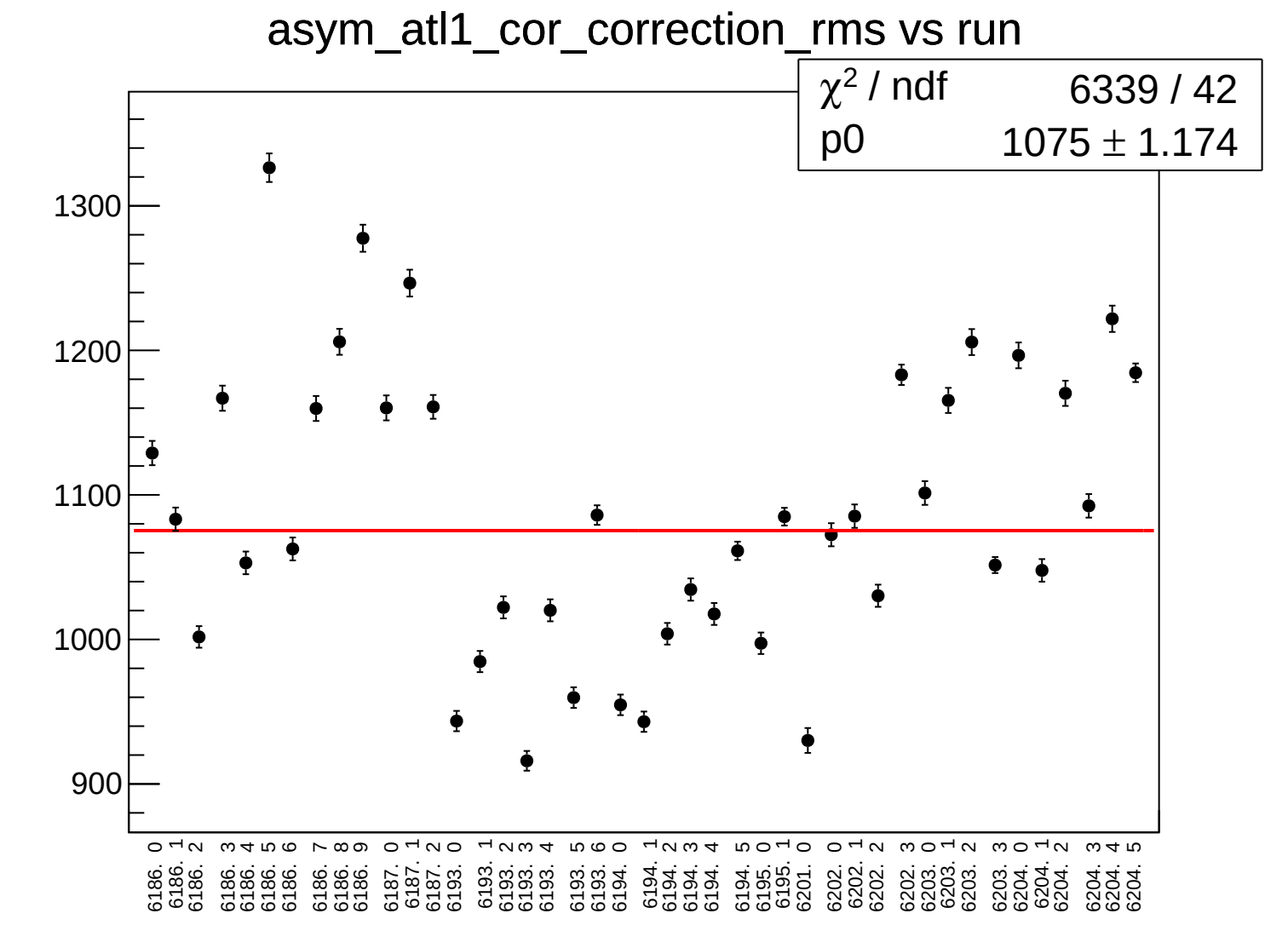

cor_asym_atl1_mean vs run
χ² / ndf 54.57 / 42
p0 −2437 ± 3700
×10³
pull
Entries 43
Mean 32.4
Std Dev 22.53


pull1D
Entries 43
Mean −0.03587
Std Dev 1.126


cor_asym_atl1_rms vs run
χ² / ndf 255.6 / 42
p0 2405 ± 2.616
2500
2450
2400
2350
2300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl1_cor_correction_mean vs run
χ² / ndf 50.58 / 42
p0 1005 ± 1660
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −171.7
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.008056
Std Dev 1.084
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_cor_correction_rms vs run
χ² / ndf 6339 / 42
p0 1075 ± 1.174
1300
1200
1100
1000
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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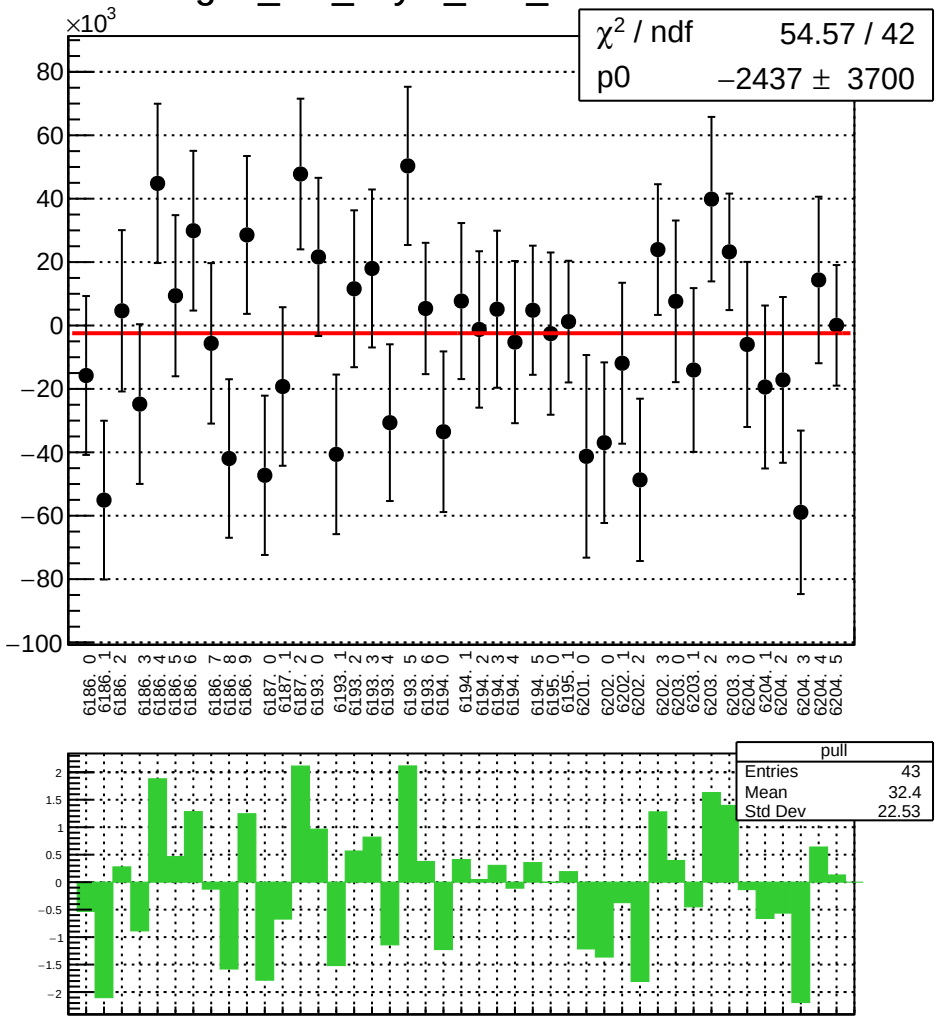
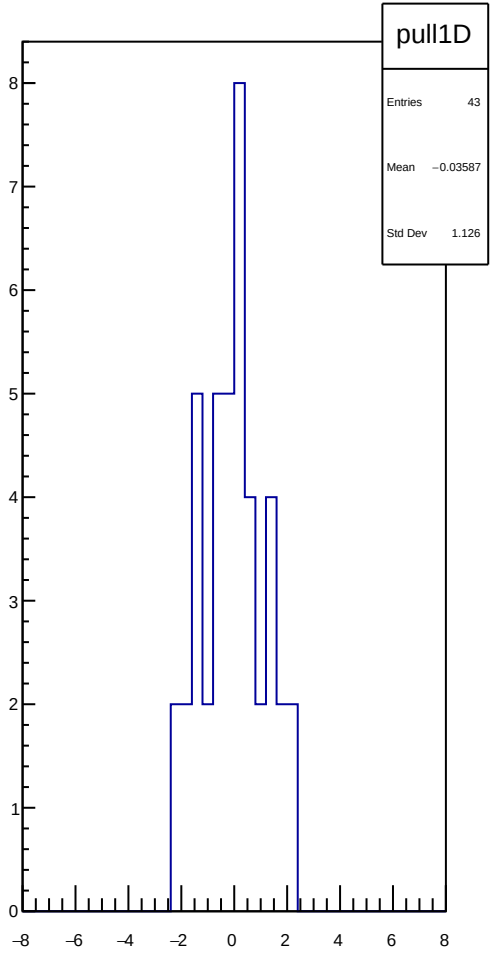
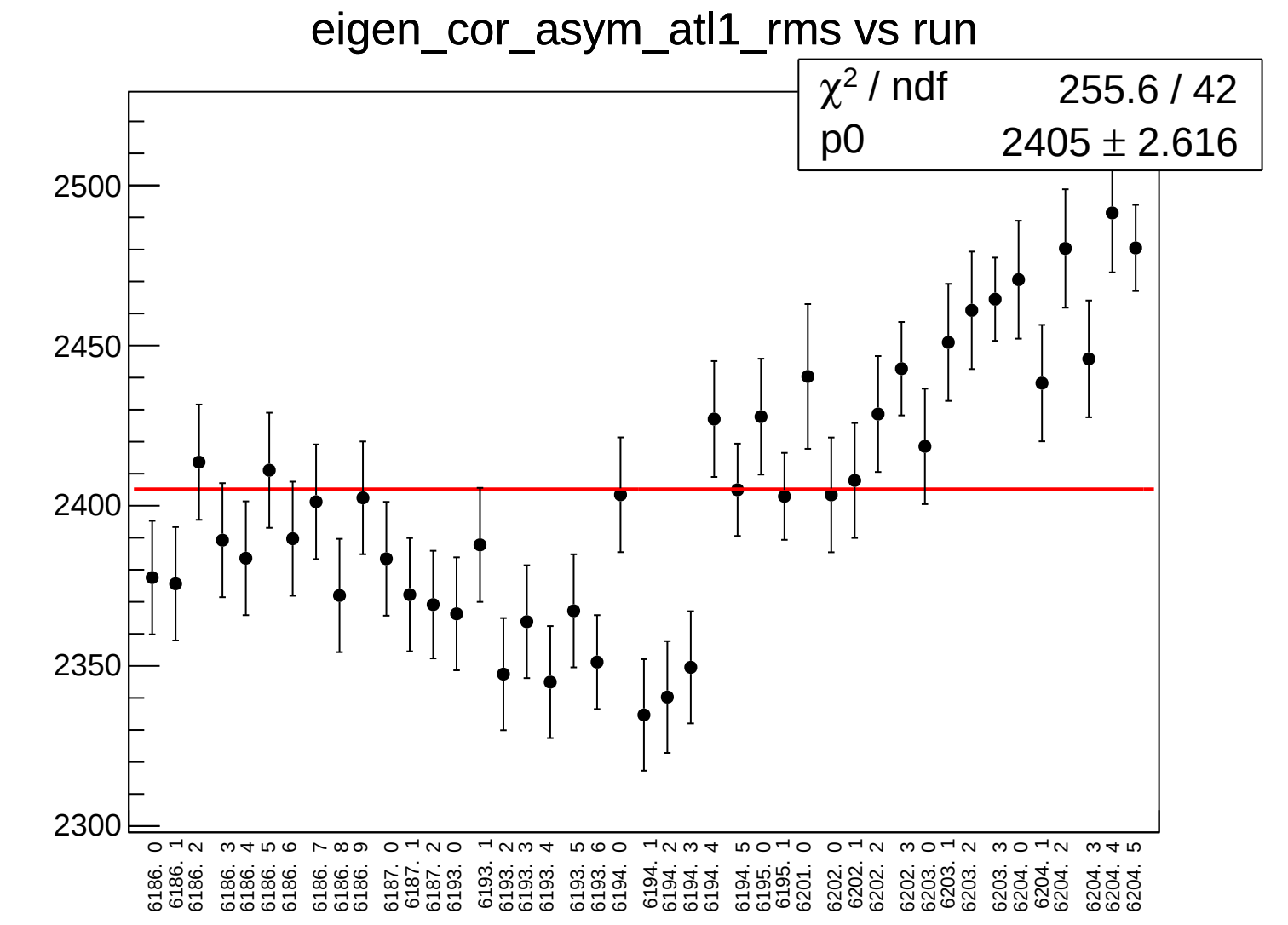
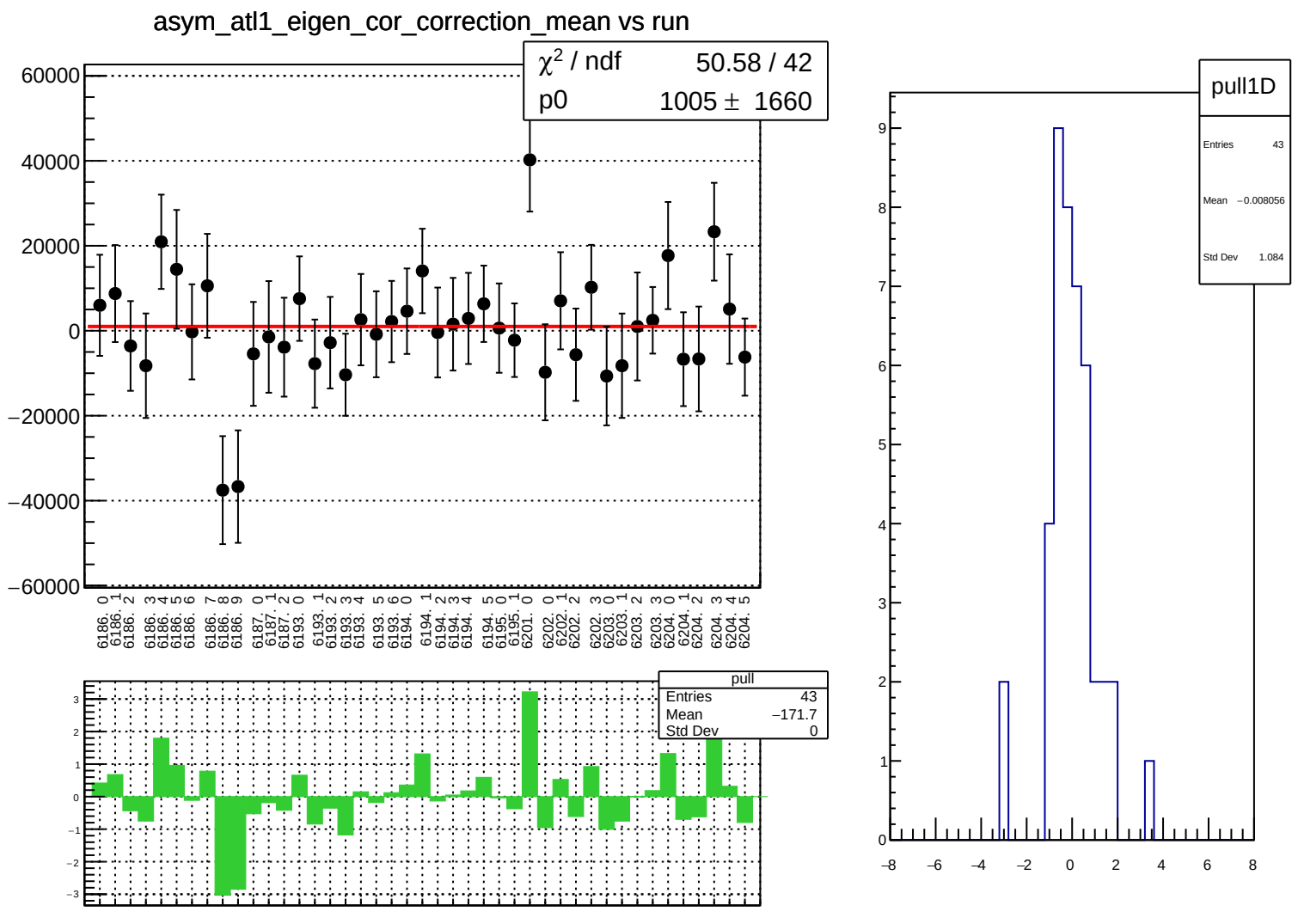
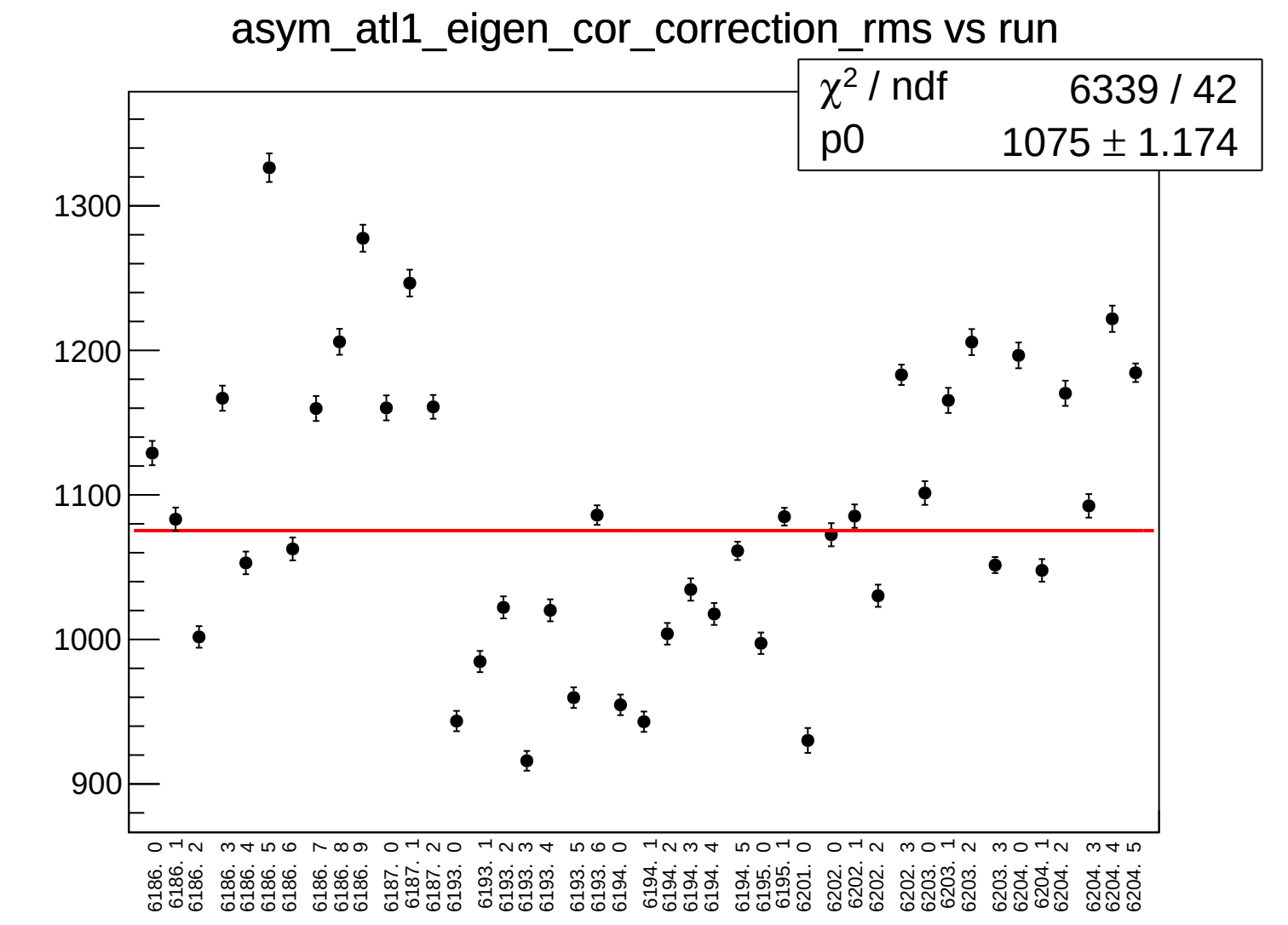
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

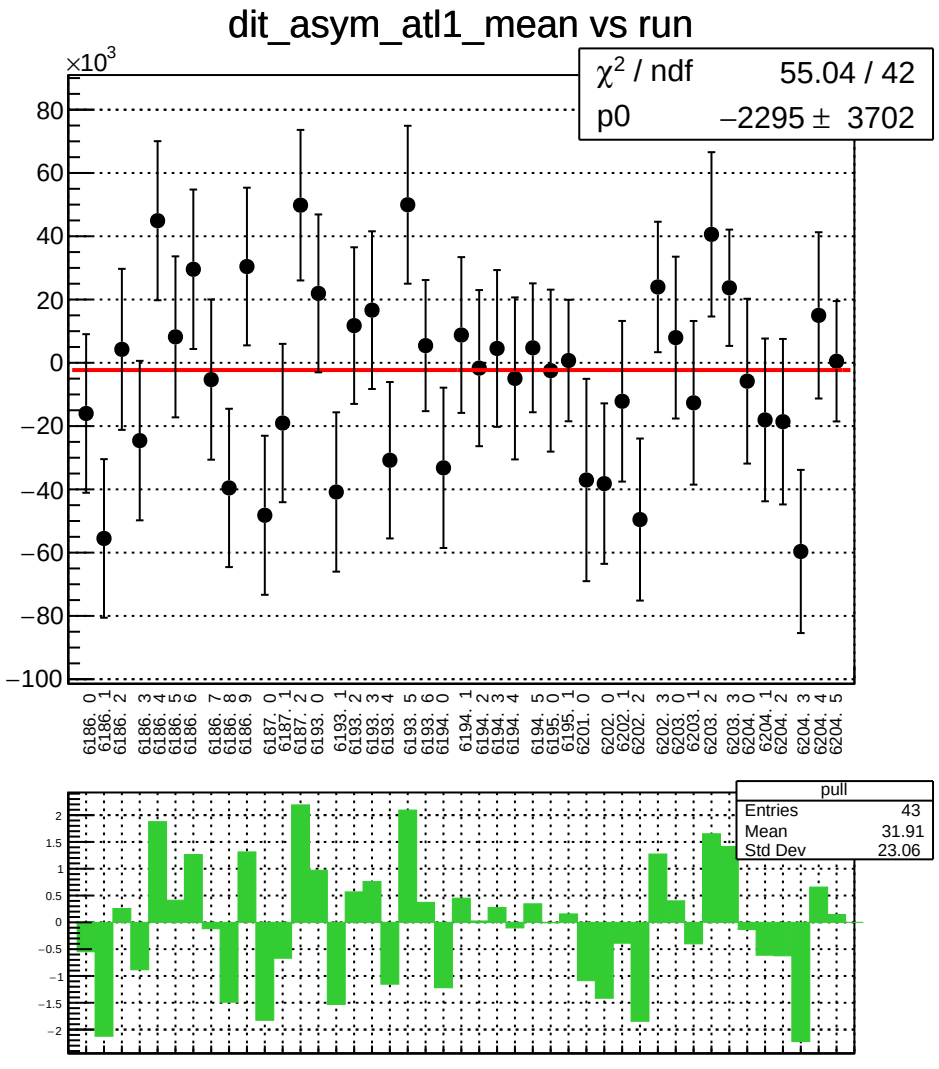

eigen_cor_asym_atl1_mean vs run
χ² / ndf 54.57 / 42
p0 −2437 ± 3700
×10³
pull
Entries 43
Mean 32.4
Std Dev 22.53

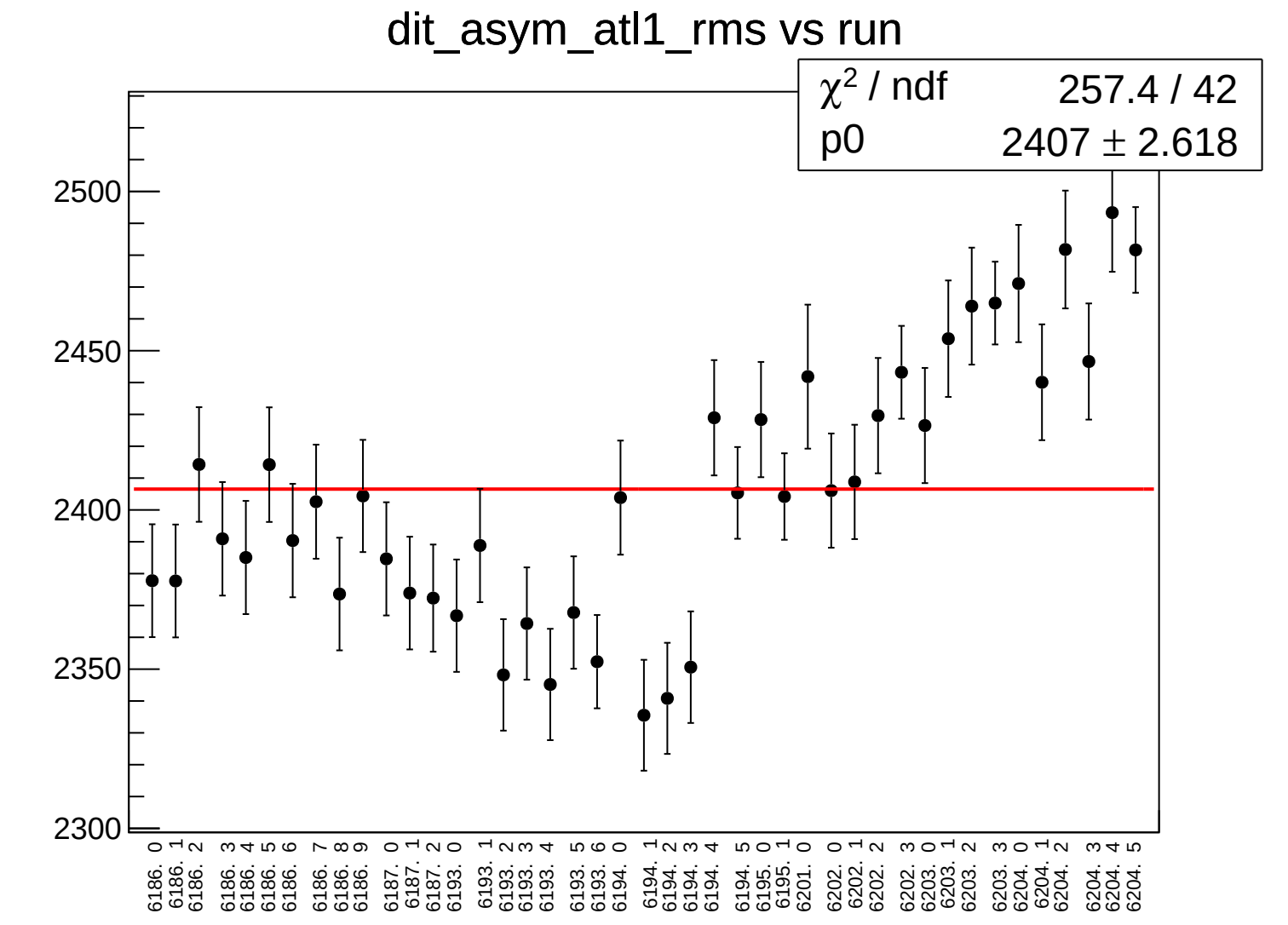

pull1D
Entries 43
Mean −0.03587
Std Dev 1.126


eigen_cor_asym_atl1_rms vs run
χ² / ndf 255.6 / 42
p0 2405 ± 2.616
2500
2450
2400
2350
2300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 50.58 / 42
p0 1005 ± 1660
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −171.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.008056
Std Dev 1.084
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 6339 / 42
p0 1075 ± 1.174
1300
1200
1100
1000
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_atl1_mean vs run
×10^3
χ² / ndf 55.04 / 42
p0 −2295 ± 3702
pull
Entries 43
Mean 31.91
Std Dev 23.06
pull1D
Entries 43
Mean −0.03526
Std Dev 1.131


dit_asym_atl1_rms vs run
χ² / ndf 257.4 / 42
p0 2407 ± 2.618
2500
2450
2400
2350
2300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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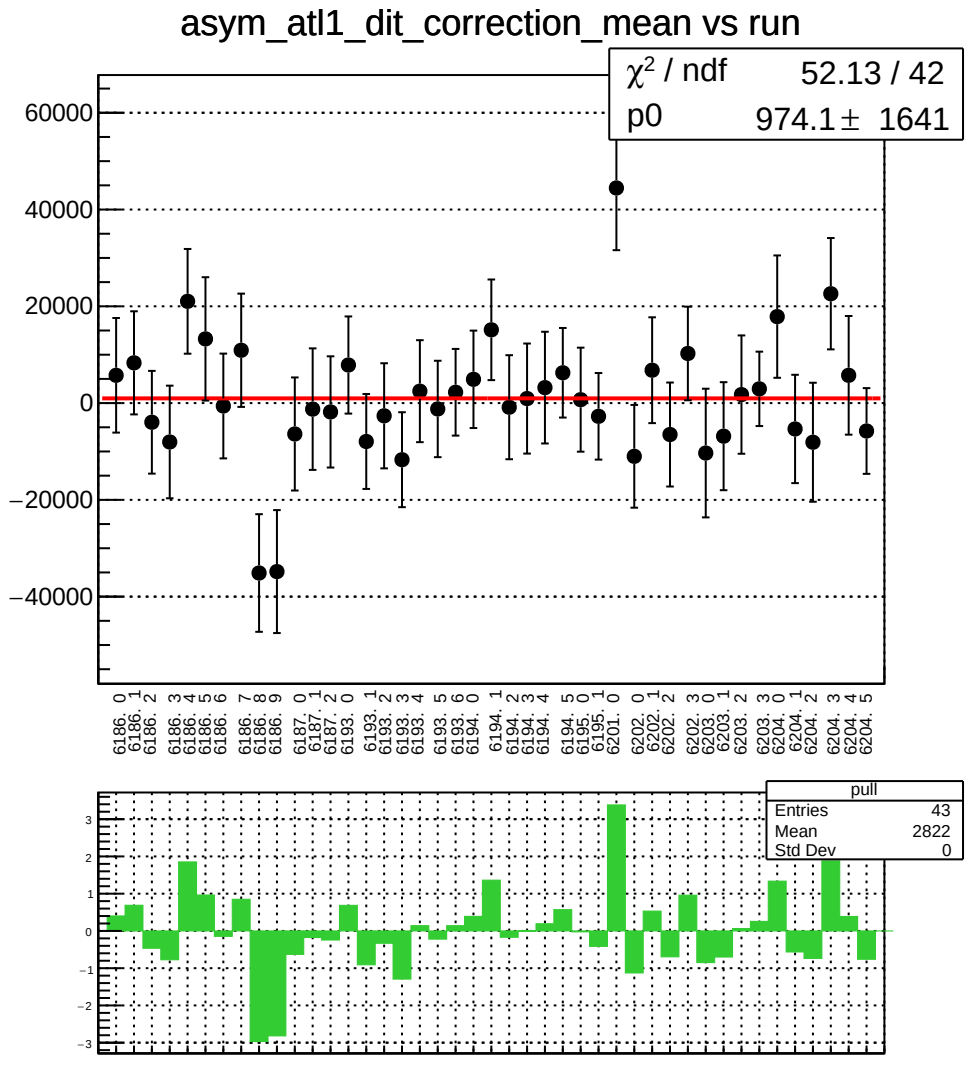
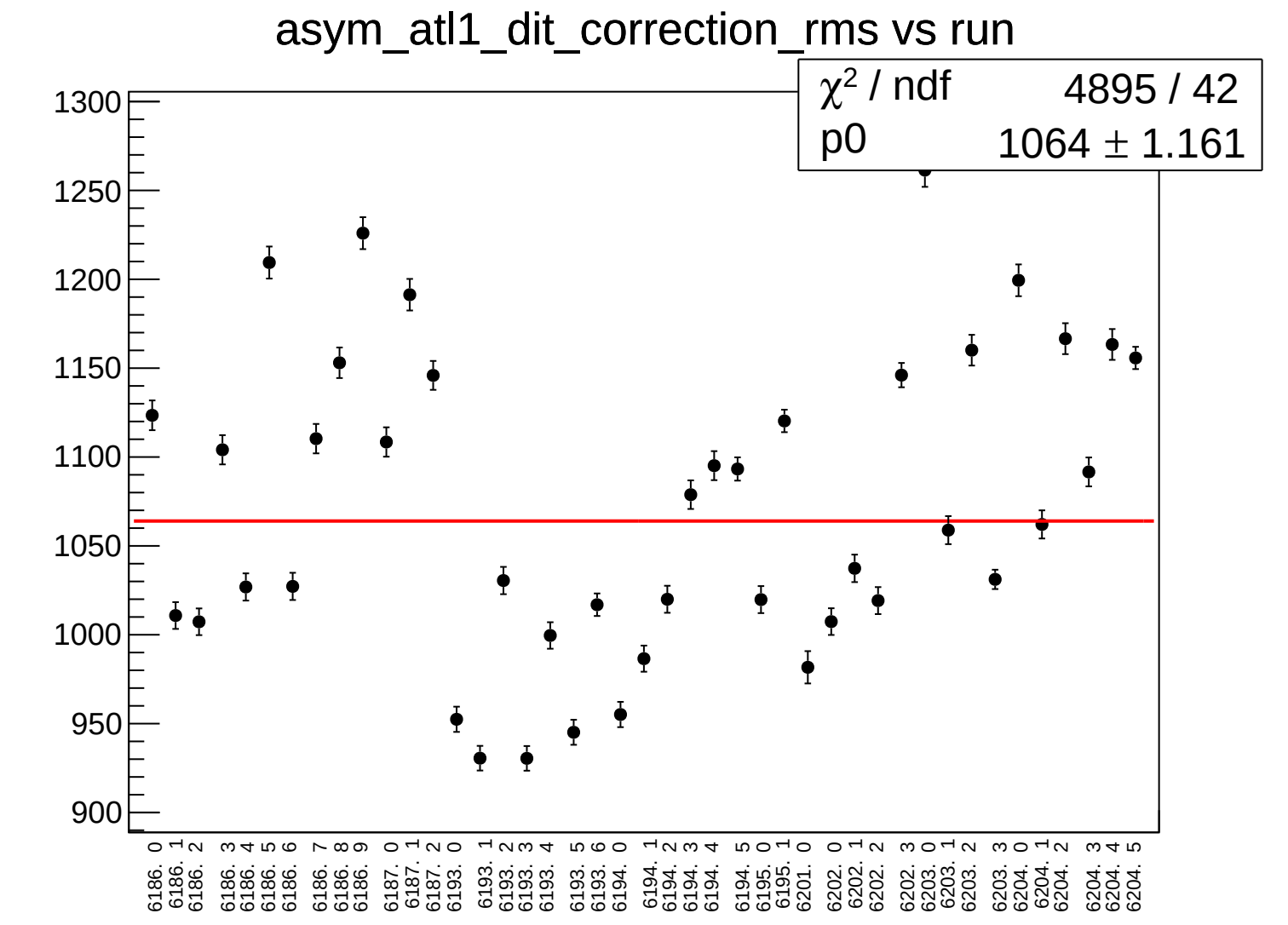
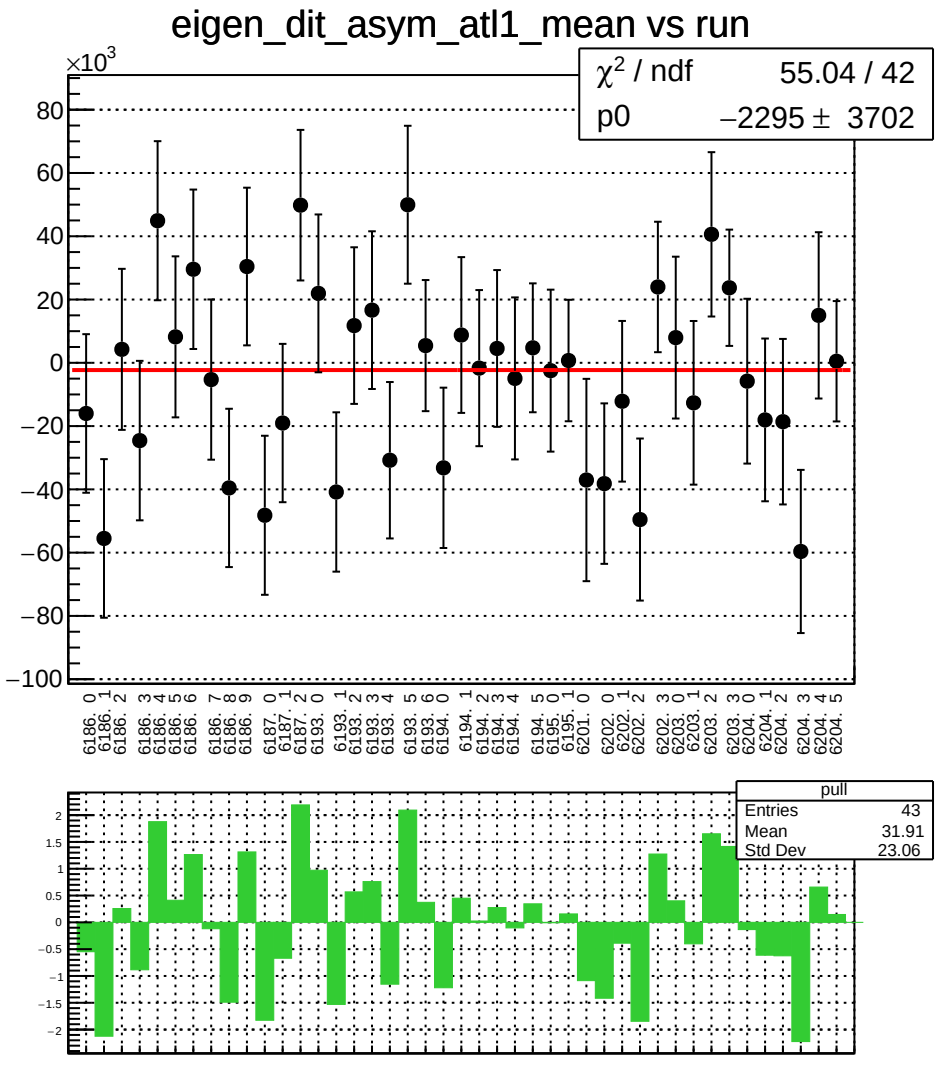
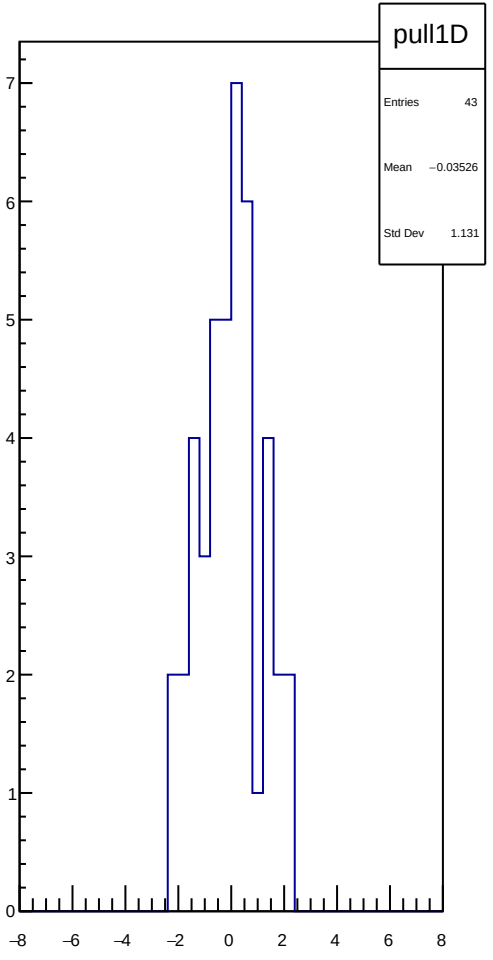
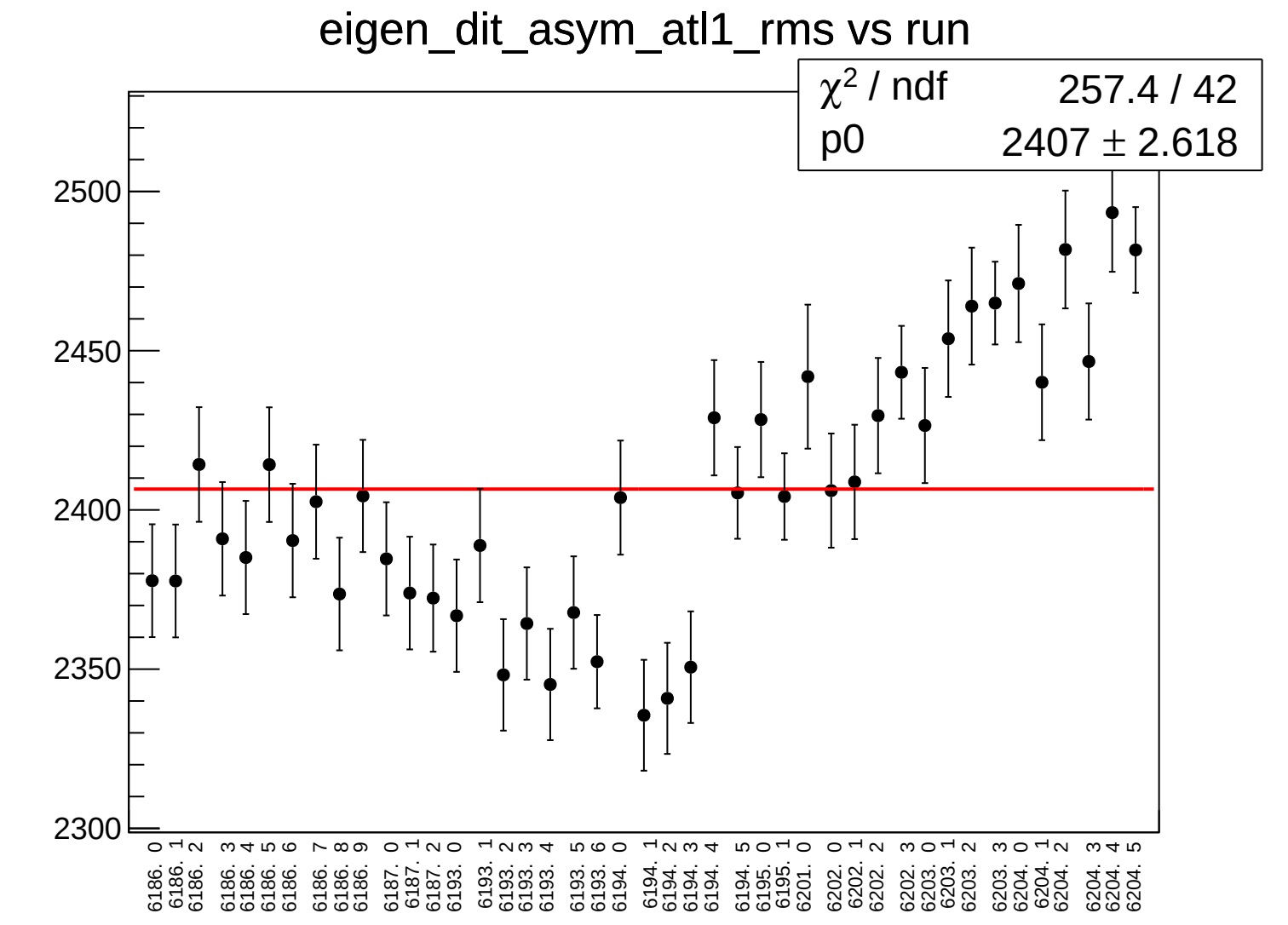
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

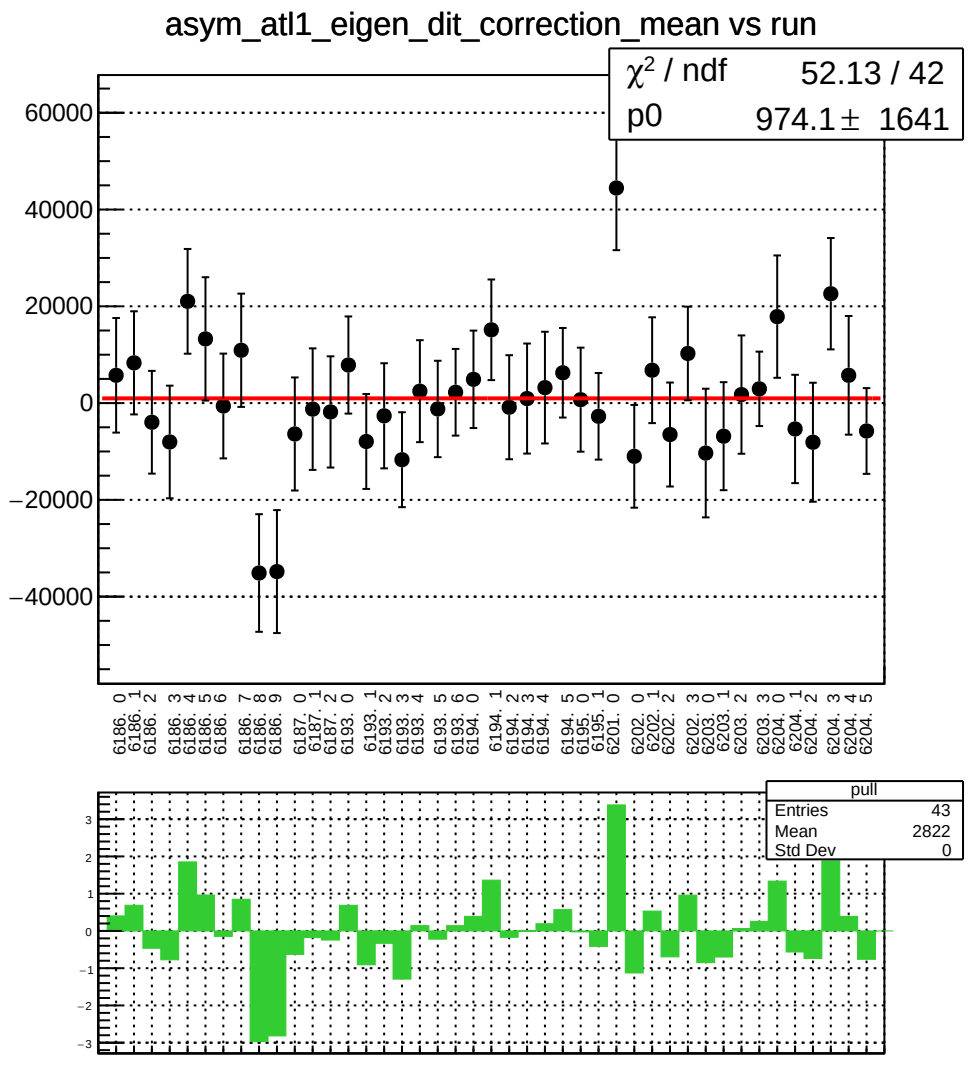

asym_atl1_dit_correction_mean vs run
χ² / ndf 52.13 / 42
p0 974.1 ± 1641
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2822
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.0005856
Std Dev 1.101
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

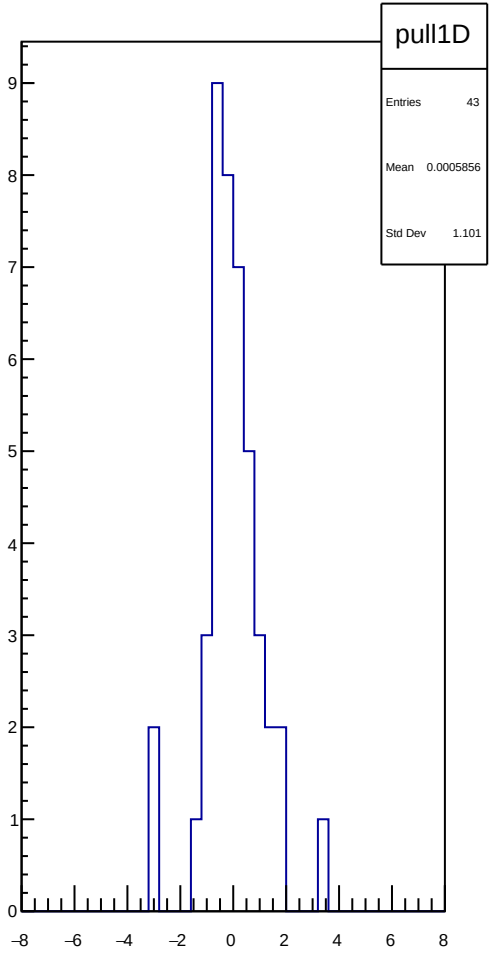

asym_atl1_dit_correction_rms vs run
χ² / ndf 4895 / 42
p0 1064 ± 1.161
1300
1250
1200
1150
1100
1050
1000
950
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

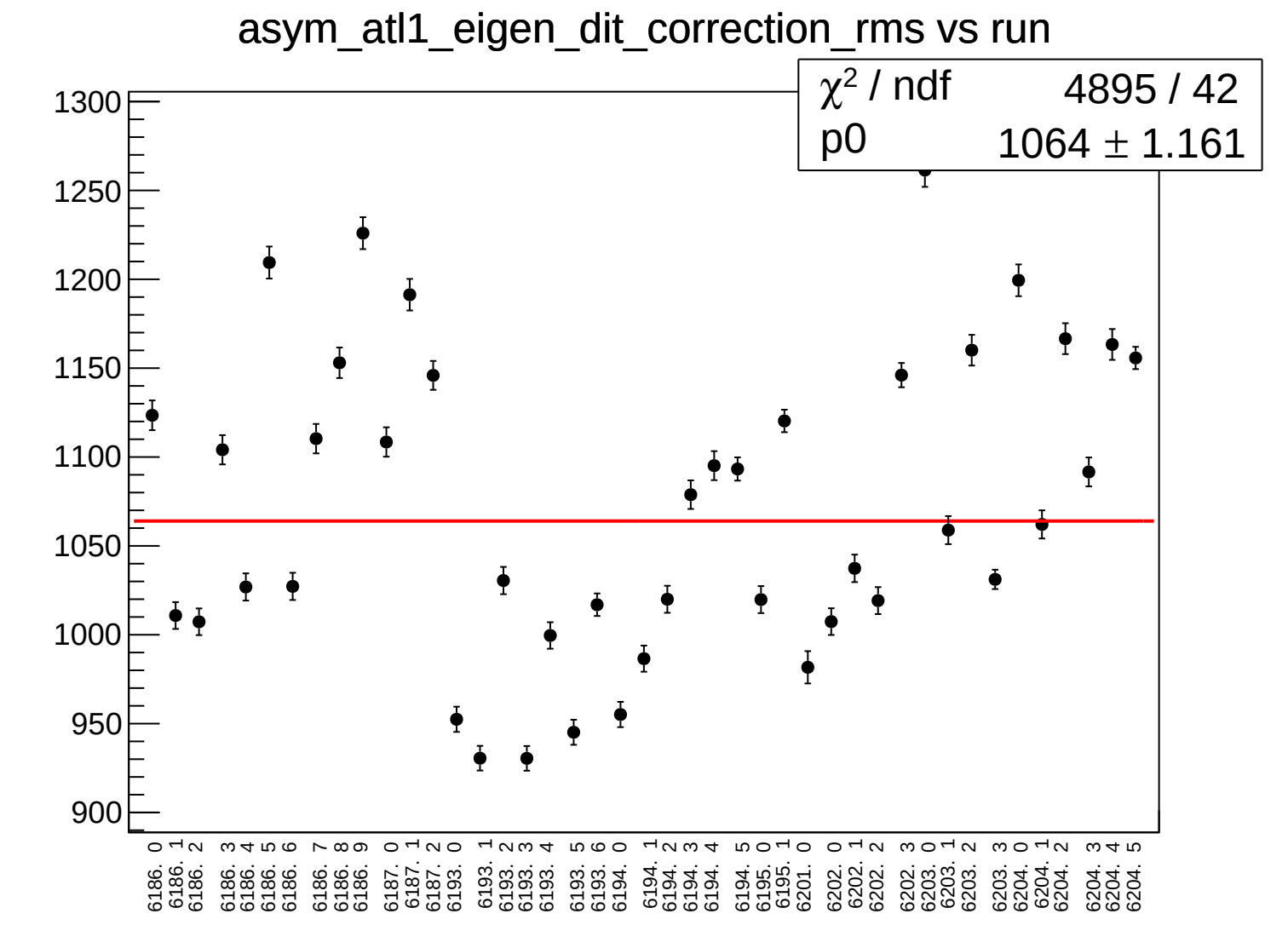

eigen_dit_asym_atl1_mean vs run
χ² / ndf 55.04 / 42
p0 −2295 ± 3702
×10³
pull
Entries 43
Mean 31.91
Std Dev 23.06

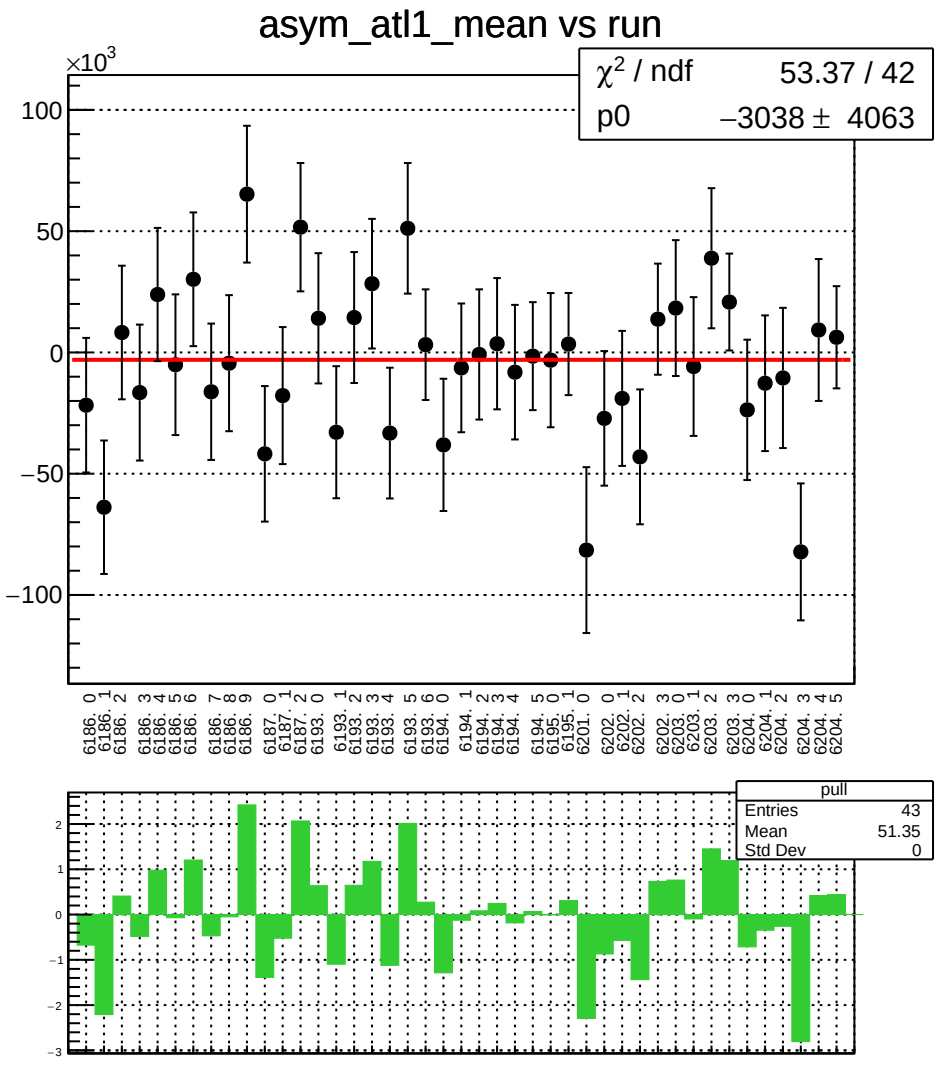

pull1D
Entries 43
Mean −0.03526
Std Dev 1.131

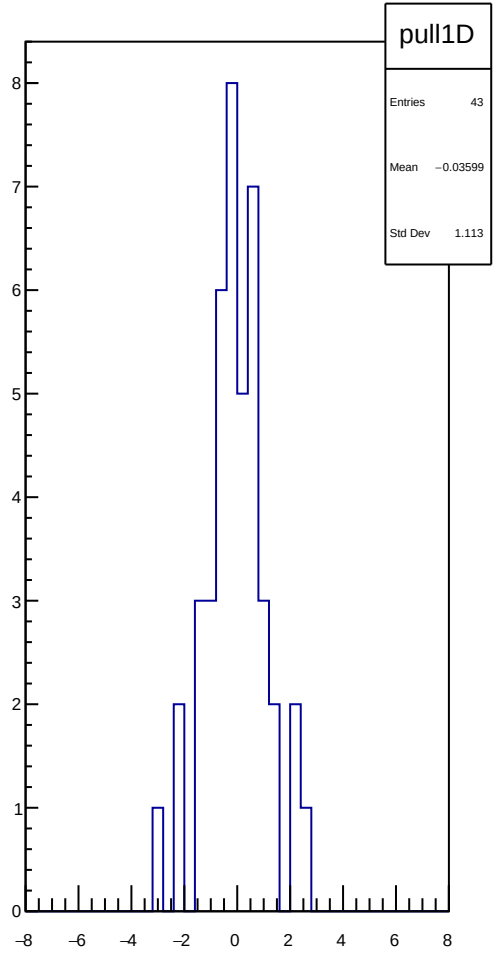

eigen_dit_asym_atl1_rms vs run
χ² / ndf 257.4 / 42
p0 2407 ± 2.618
2500
2450
2400
2350
2300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

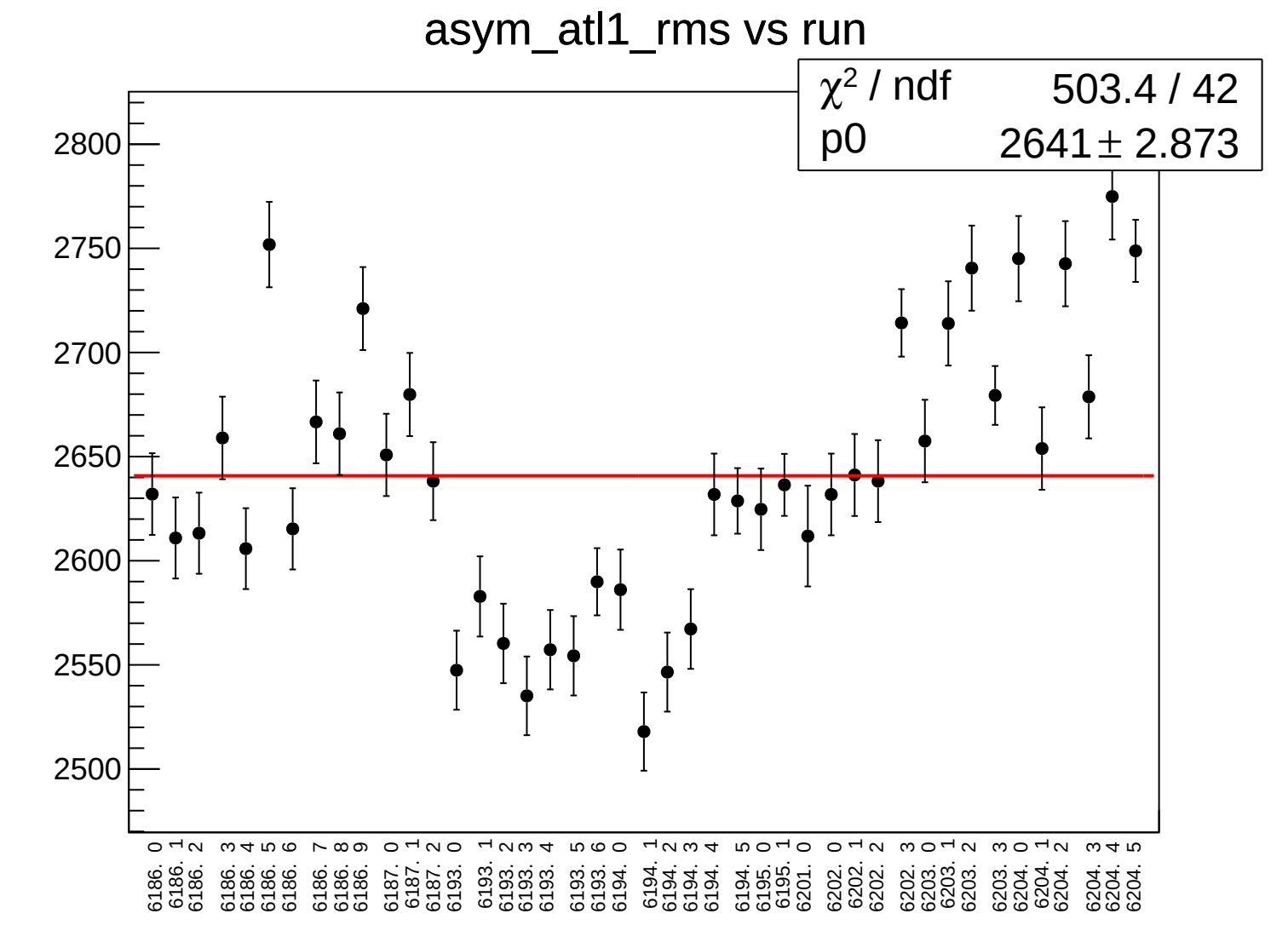

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 52.13 / 42
p0 974.1 ± 1641
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2822
Std Dev 0
3
2
1
0
−1
−2
−3

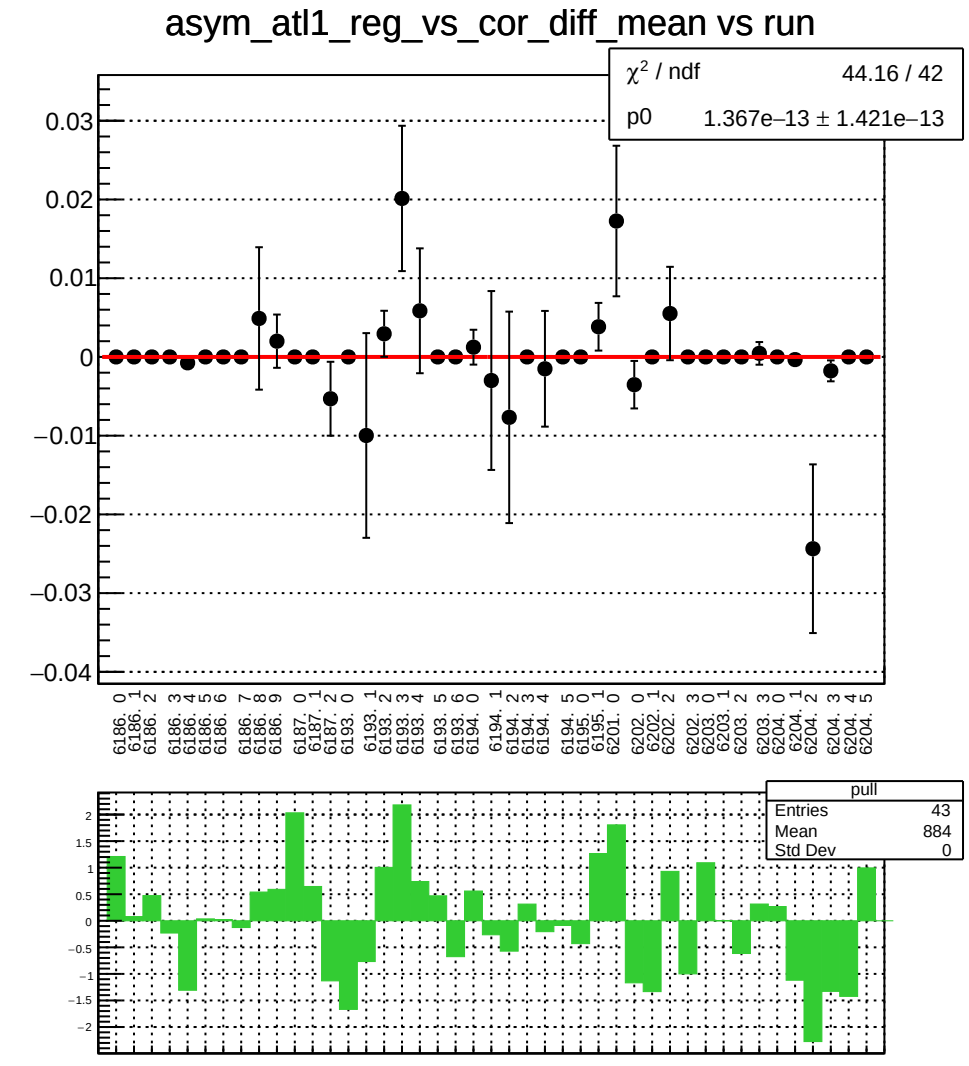

pull1D
Entries 43
Mean 0.0005856
Std Dev 1.101
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

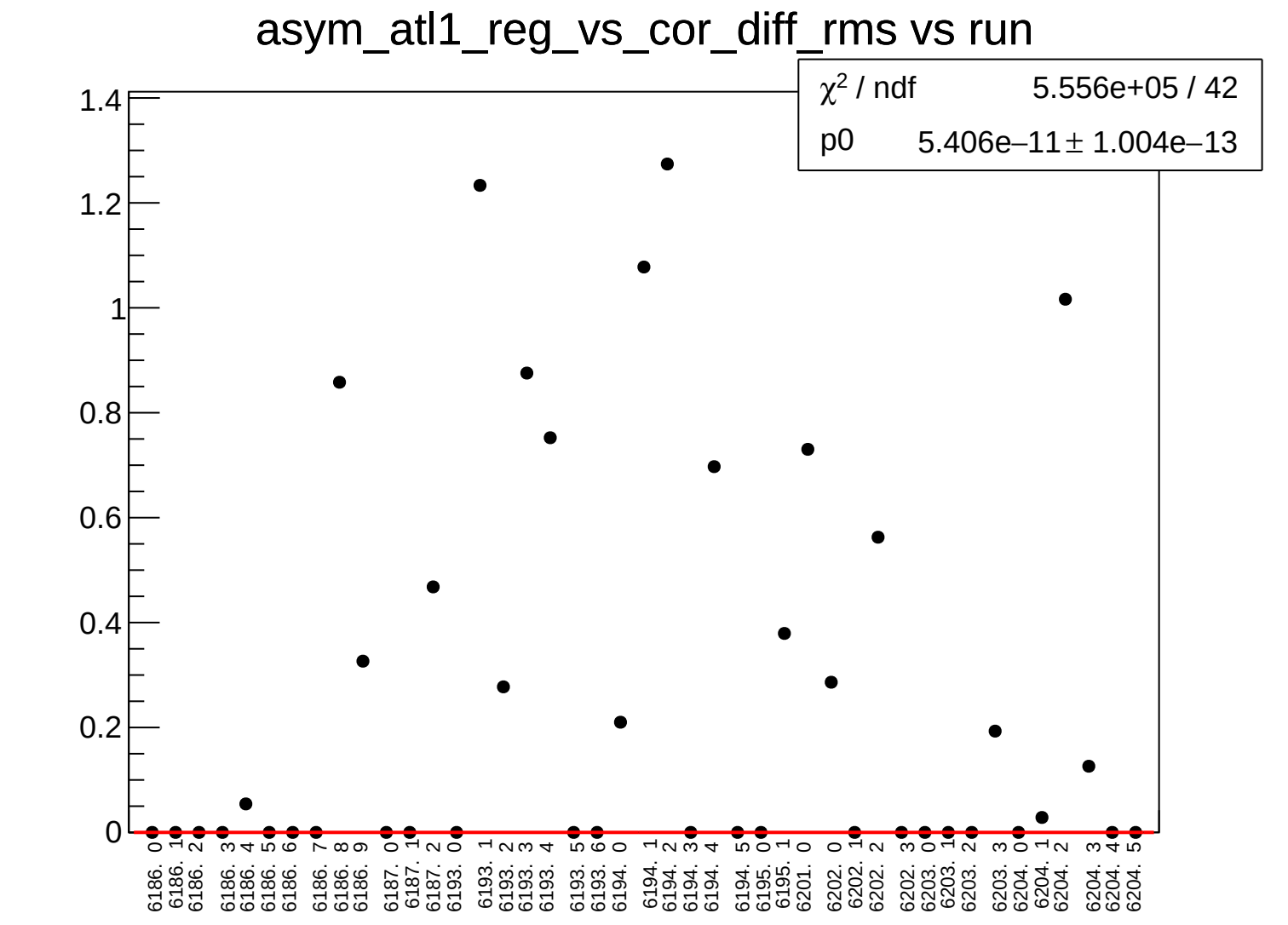

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 4895 / 42
p0 1064 ± 1.161
1300
1250
1200
1150
1100
1050
1000
950
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

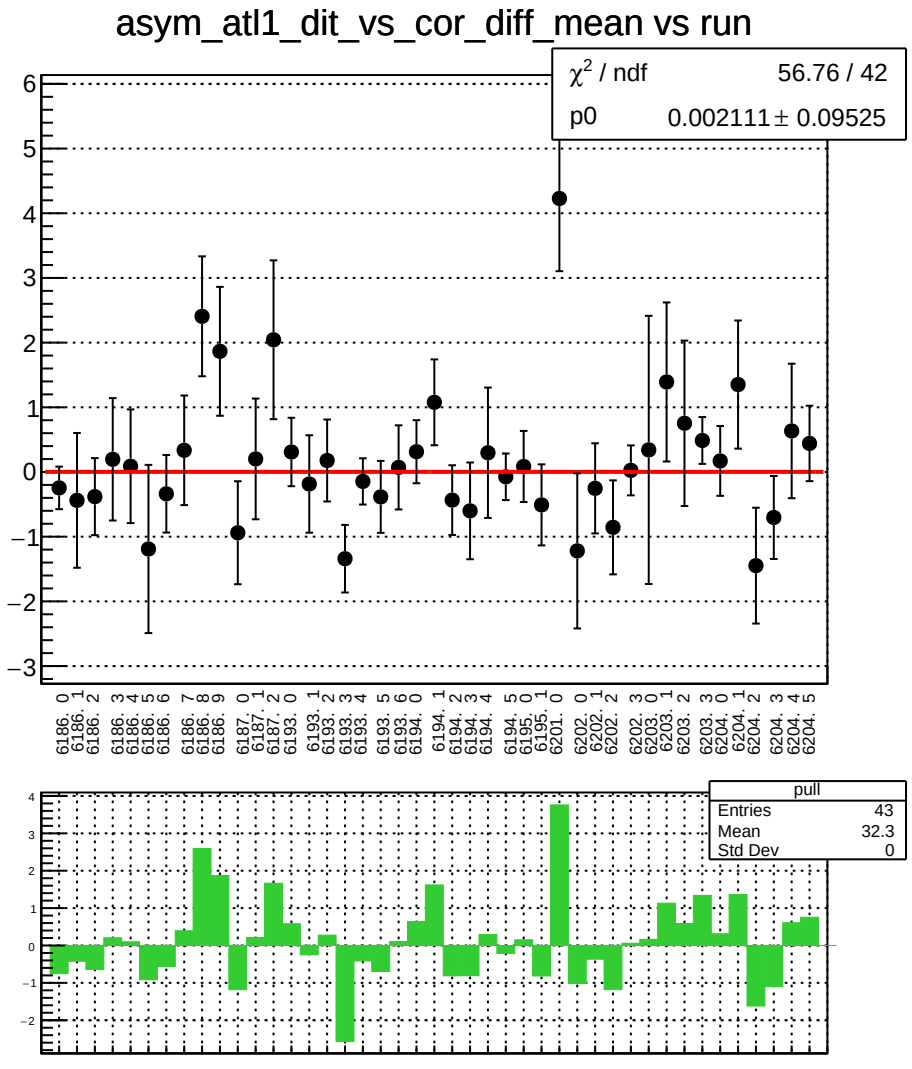

asym_atl1_mean vs run
×10^3
χ² / ndf 53.37 / 42
p0 −3038 ± 4063
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 51.35
Std Dev 0
2
1
0
−1
−2
−3

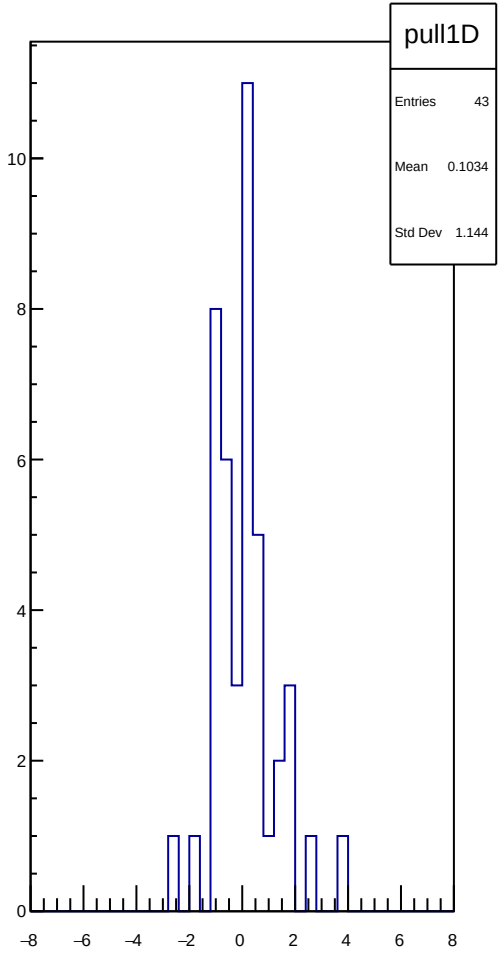

pull1D
Entries 43
Mean −0.03599
Std Dev 1.113
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

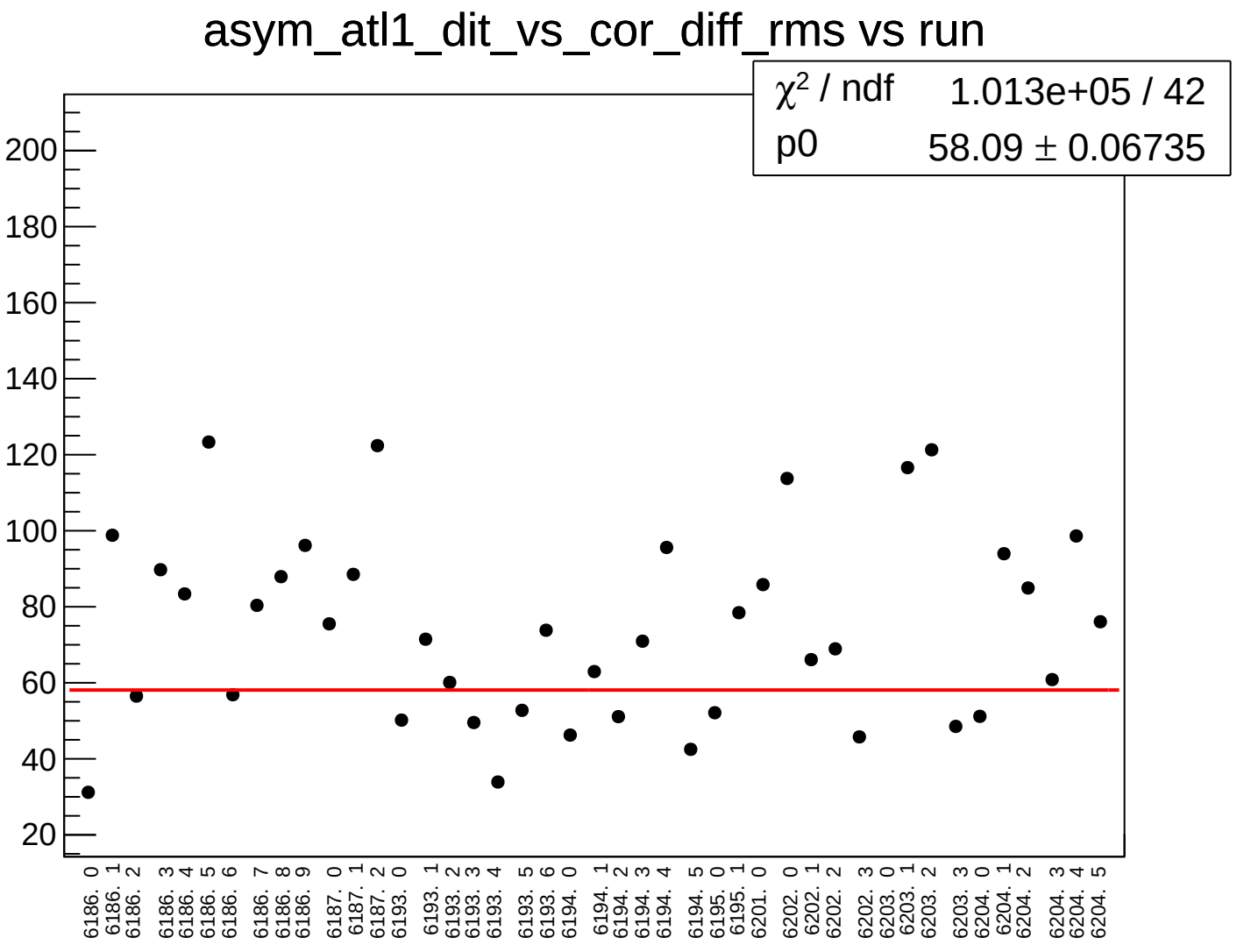

asym_atl1_rms vs run
χ² / ndf 503.4 / 42
p0 2641 ± 2.873
2800
2750
2700
2650
2600
2550
2500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

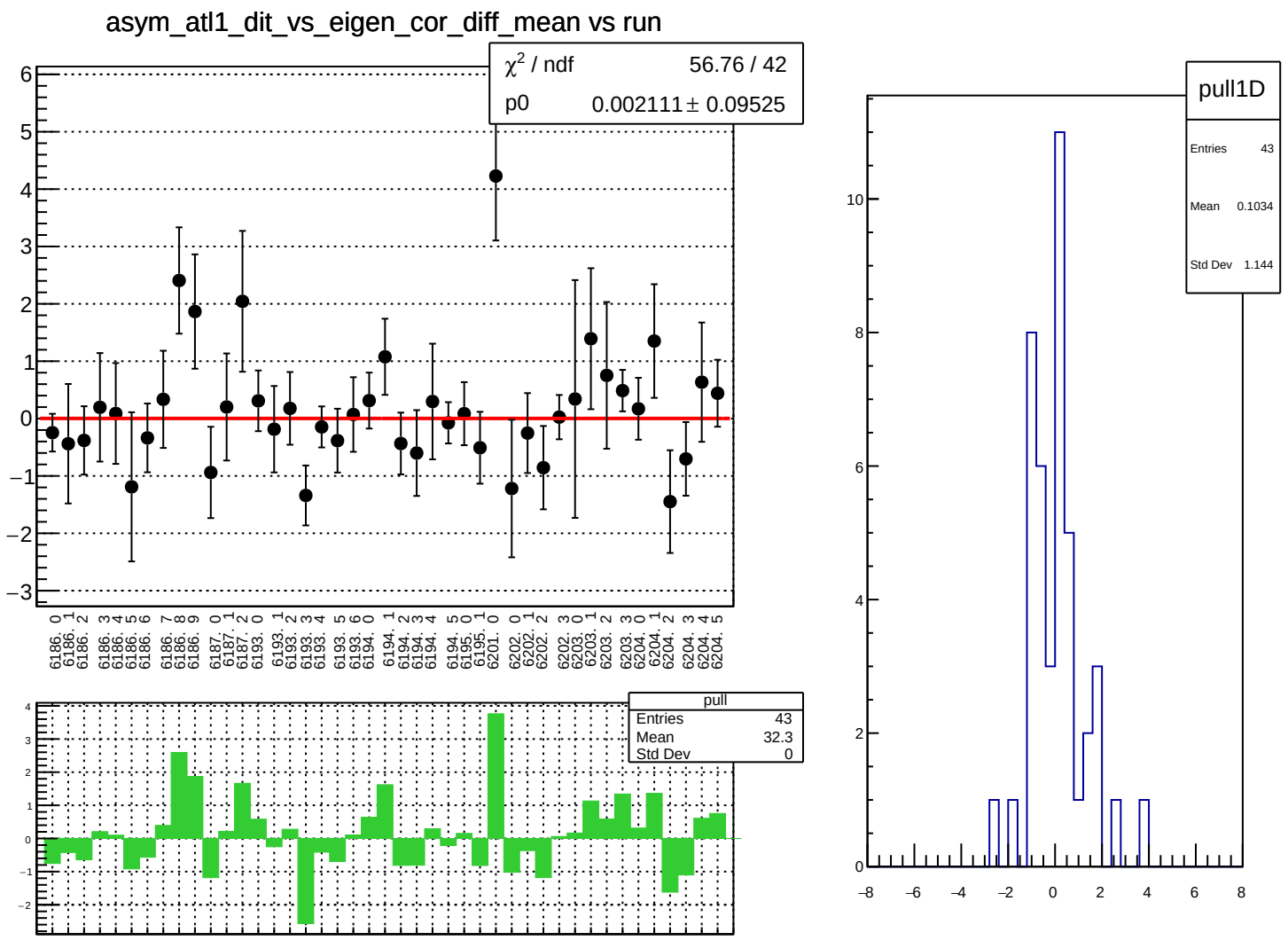

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 44.16 / 42
p0 1.367e−13 ± 1.421e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 884
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.003462
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

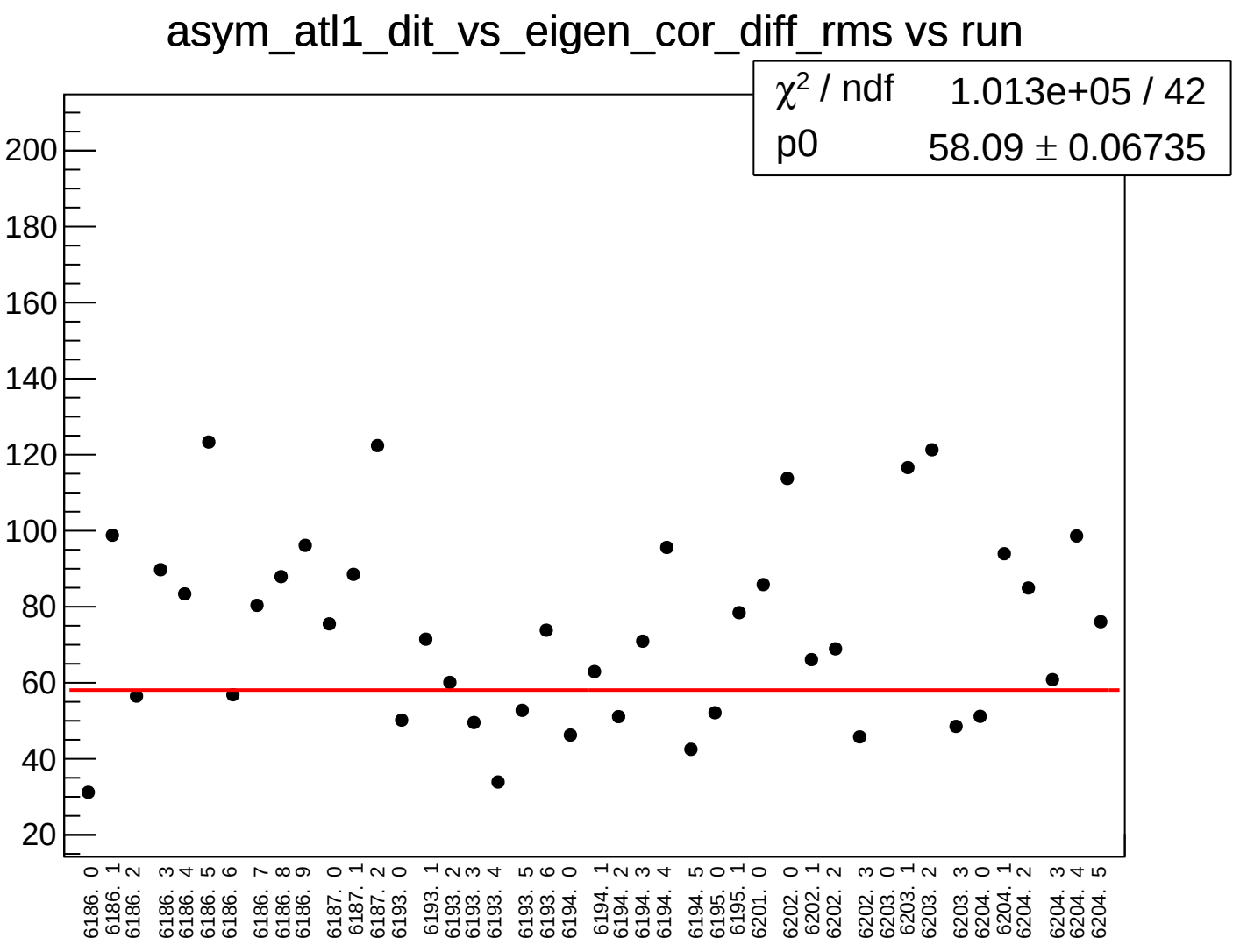

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 5.556e+05 / 42
p0 5.406e−11 ± 1.004e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

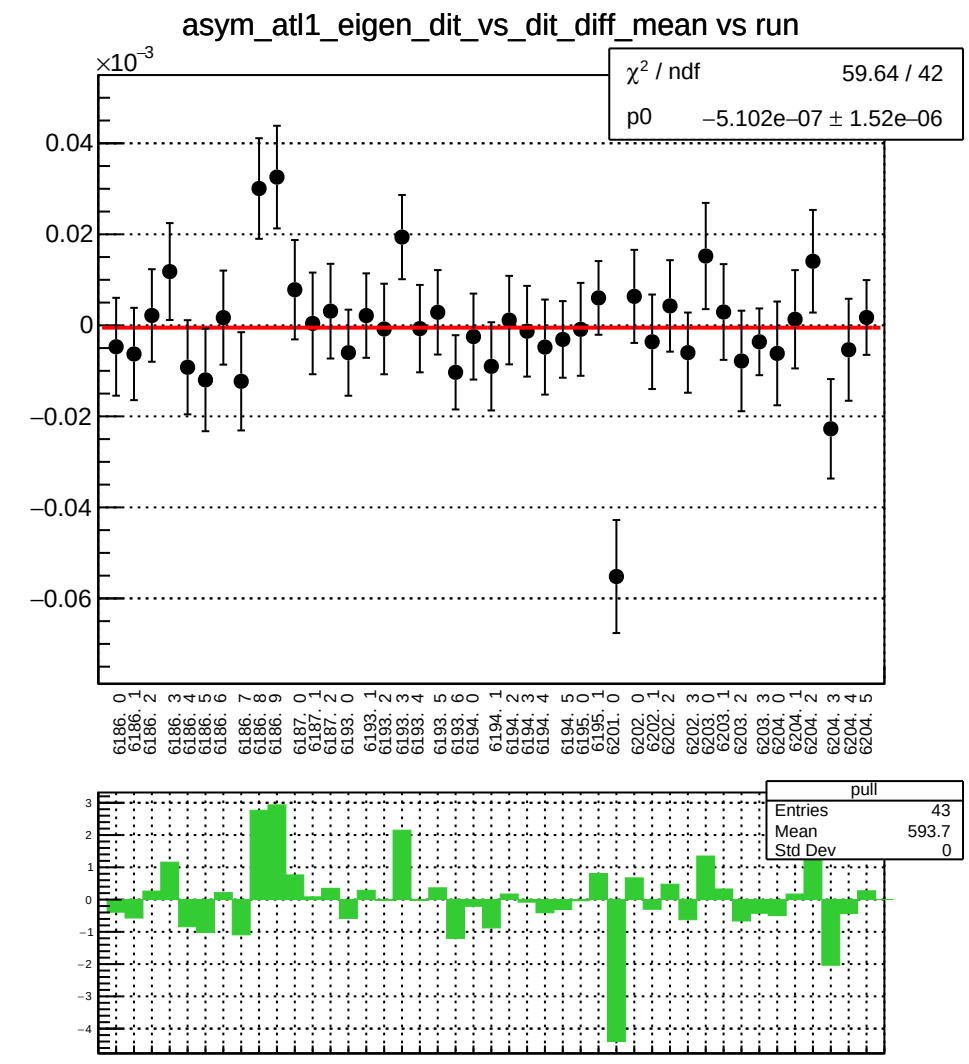

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 56.76 / 42
p0 0.002111 ± 0.09525
pull
Entries 43
Mean 32.3
Std Dev 0


pull1D
Entries 43
Mean 0.1034
Std Dev 1.144


asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.013e+05 / 42
p0 58.09 ± 0.06735
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.76 / 42
p0 0.002111 ± 0.09525
pull
Entries 43
Mean 32.3
Std Dev 0
pull1D
Entries 43
Mean 0.1034
Std Dev 1.144


asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.013e+05 / 42
p0 58.09 ± 0.06735
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 59.64 / 42
p0 −5.102e−07 ± 1.52e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
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6194. 5
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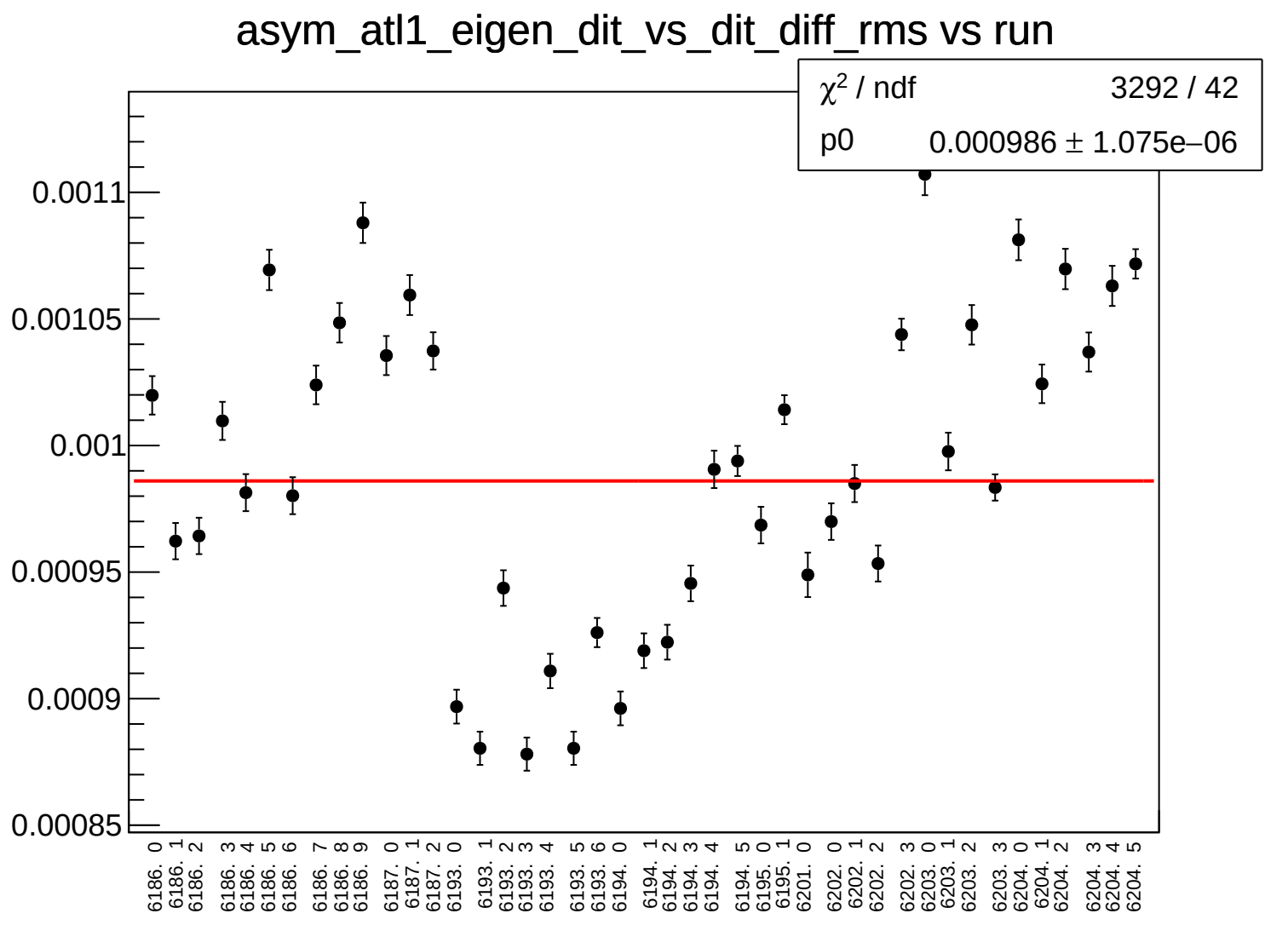
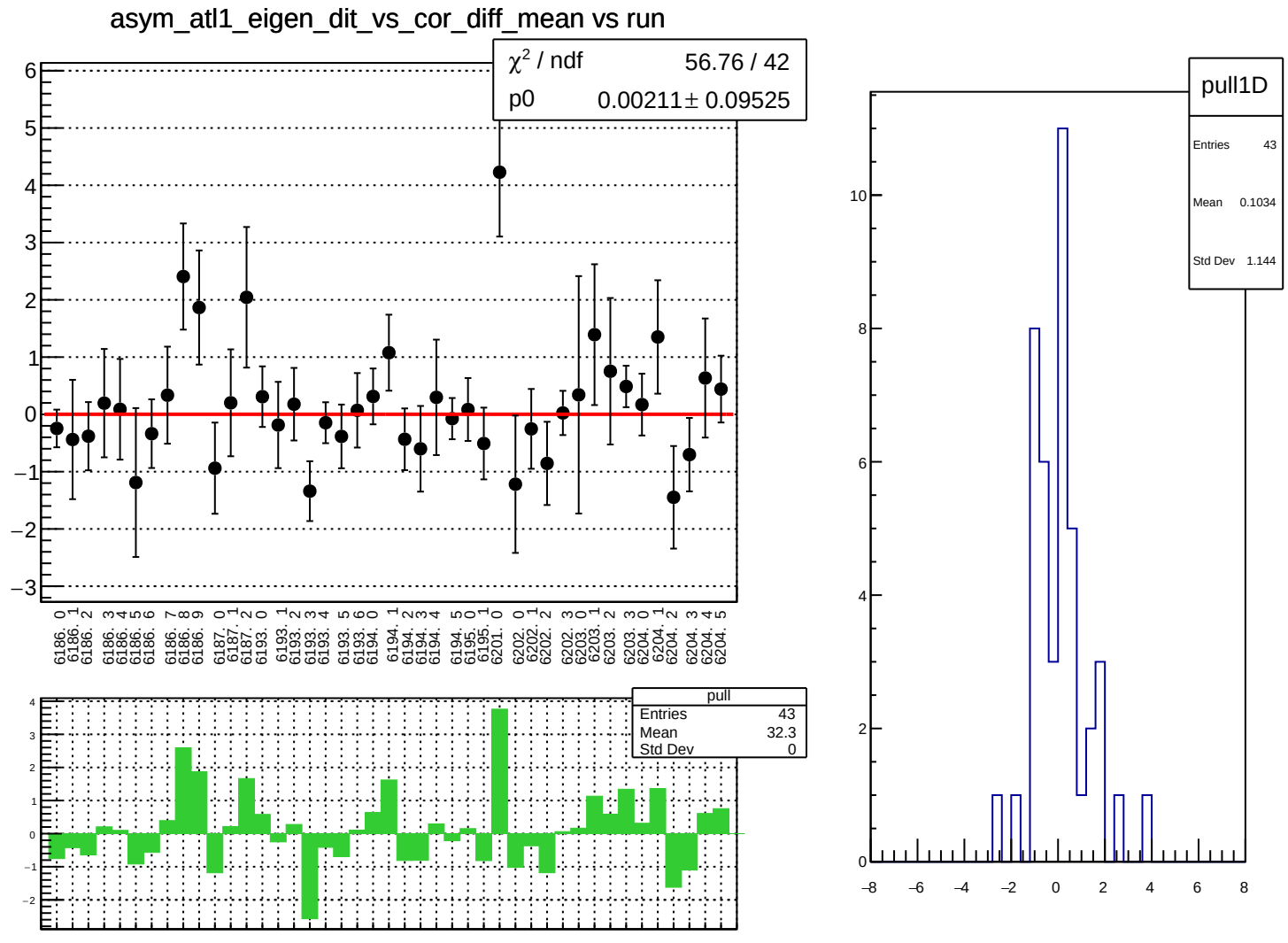
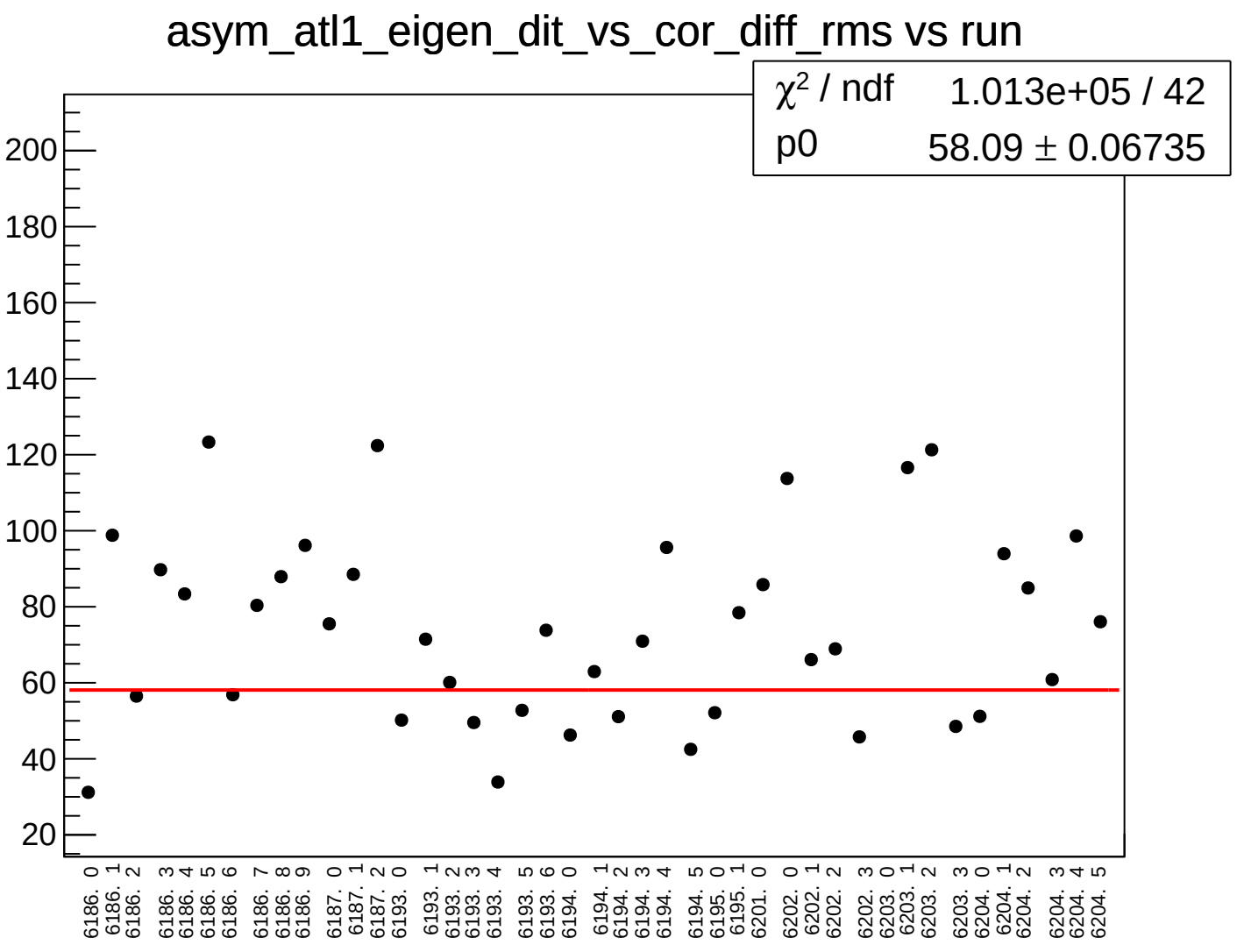
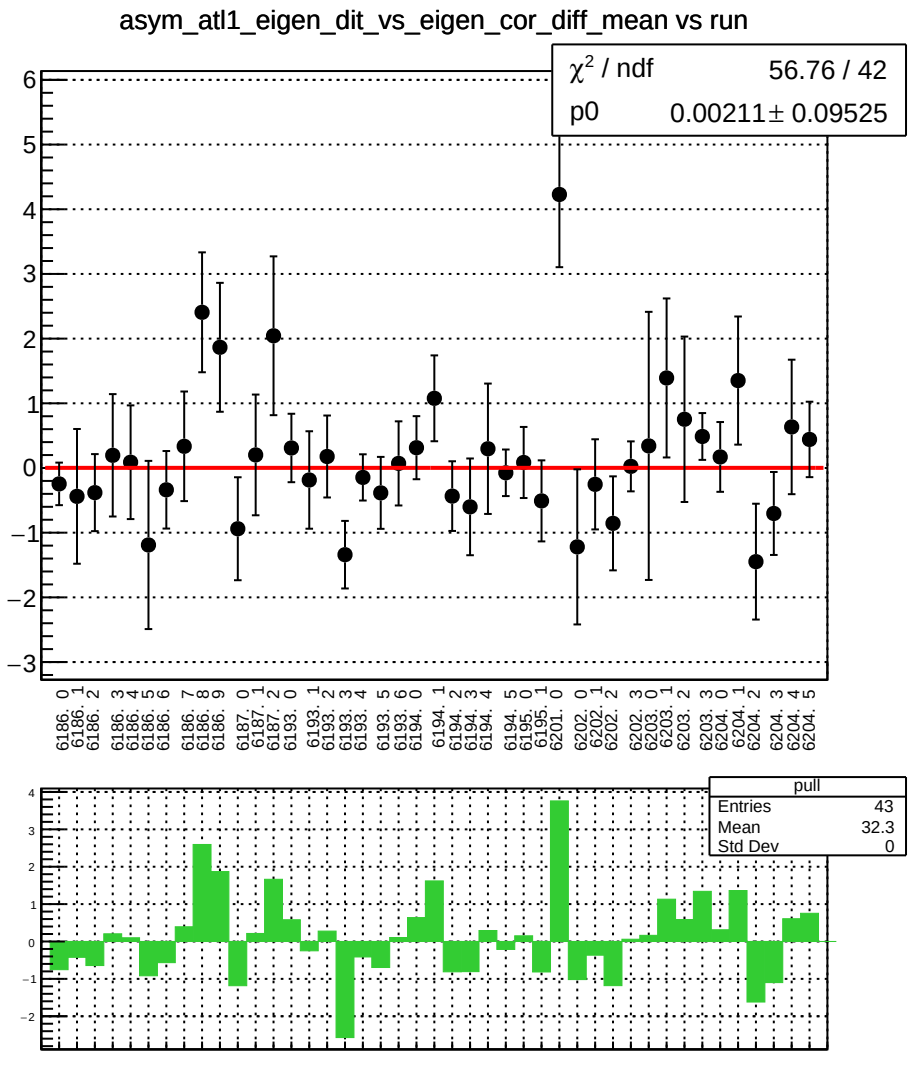
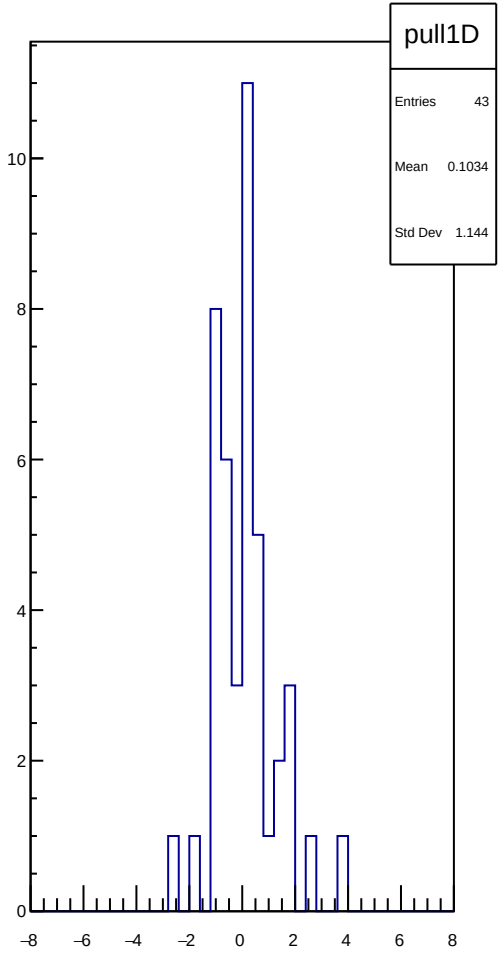
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 593.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.004062
Std Dev 1.178
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

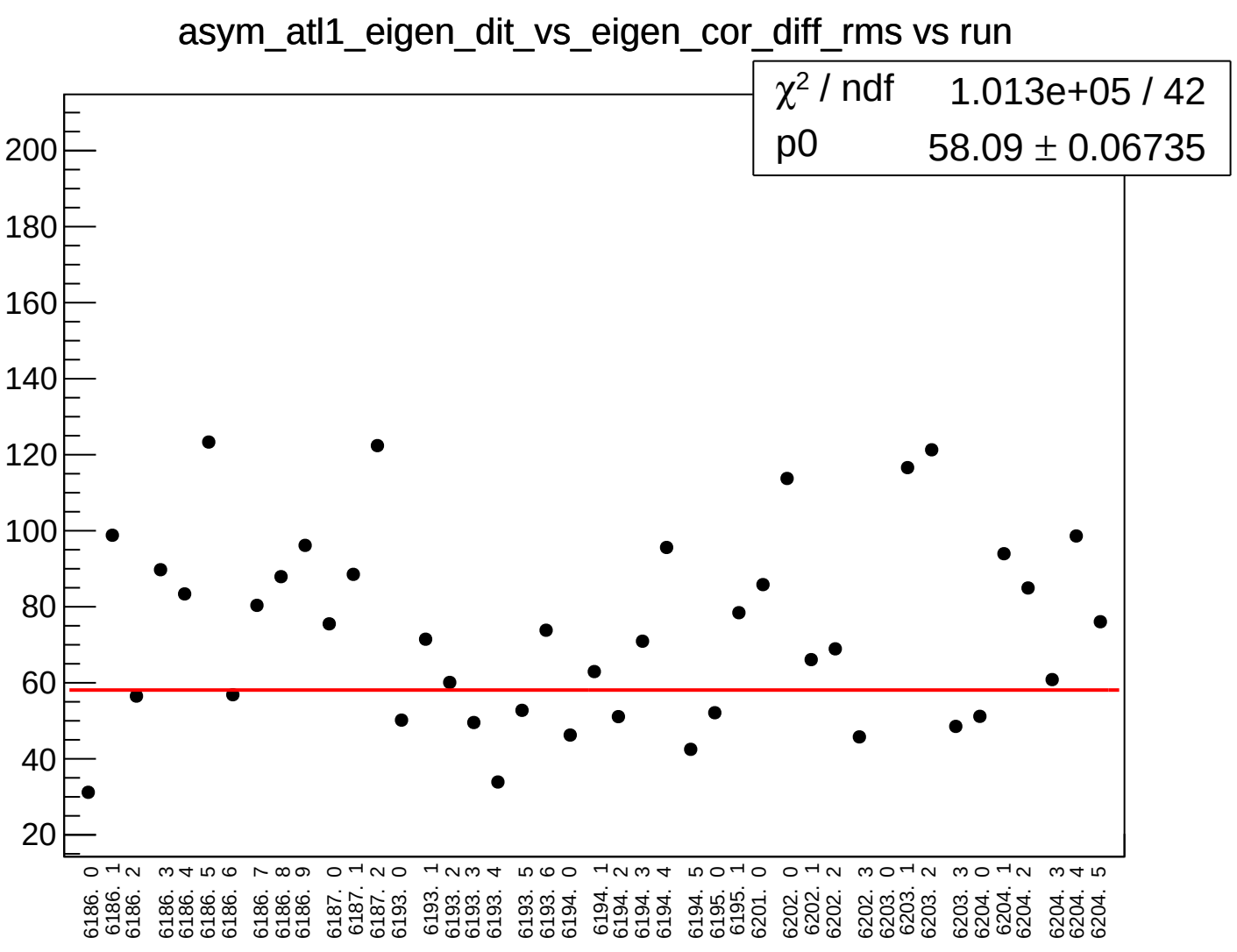

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3292 / 42
p0 0.000986 ± 1.075e−06
0.0011
0.00105
0.001
0.00095
0.0009
0.00085
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

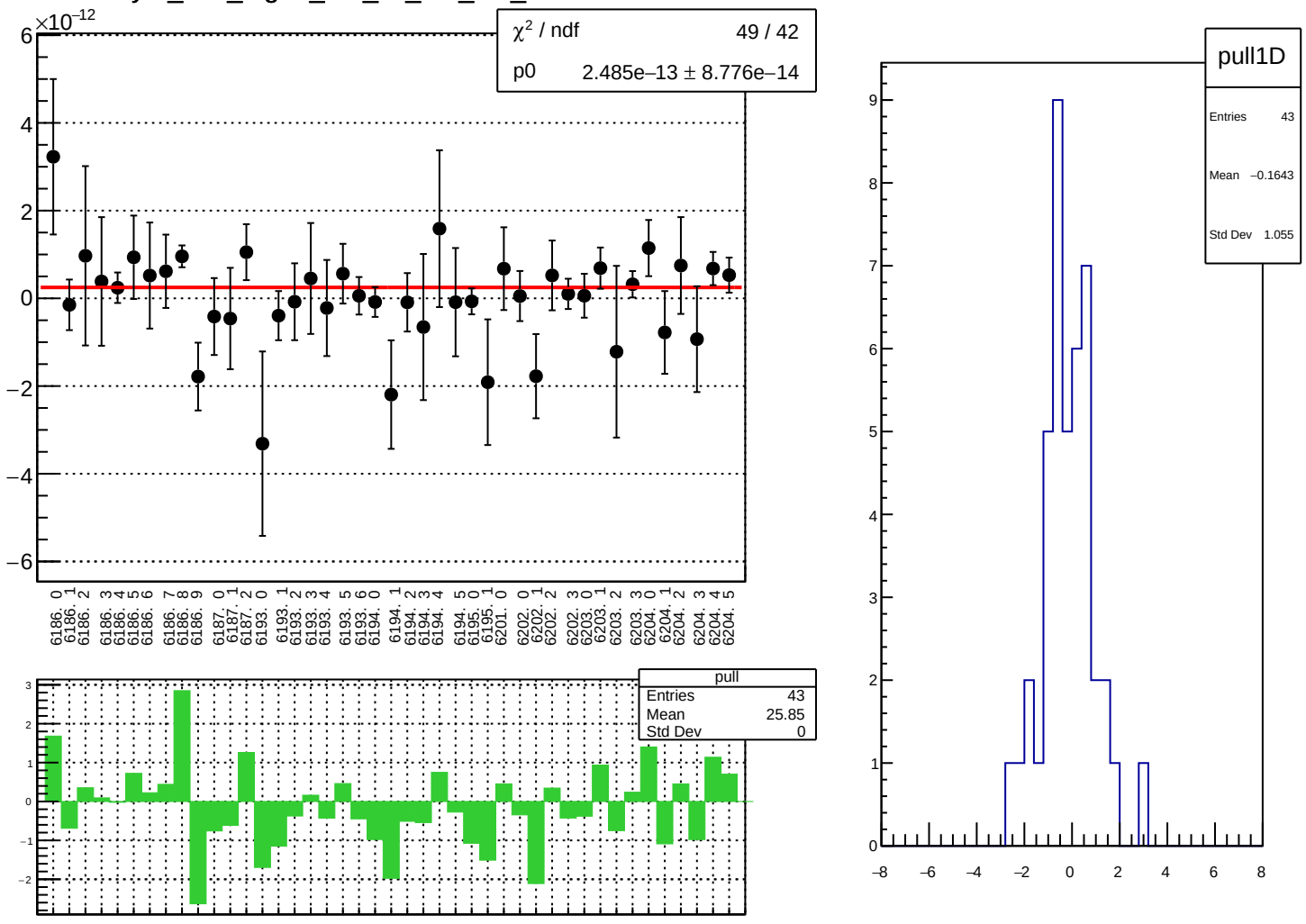

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 56.76 / 42
p0 0.00211 ± 0.09525
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 32.3
Std Dev 0
pull1D
Entries 43
Mean 0.1034
Std Dev 1.144

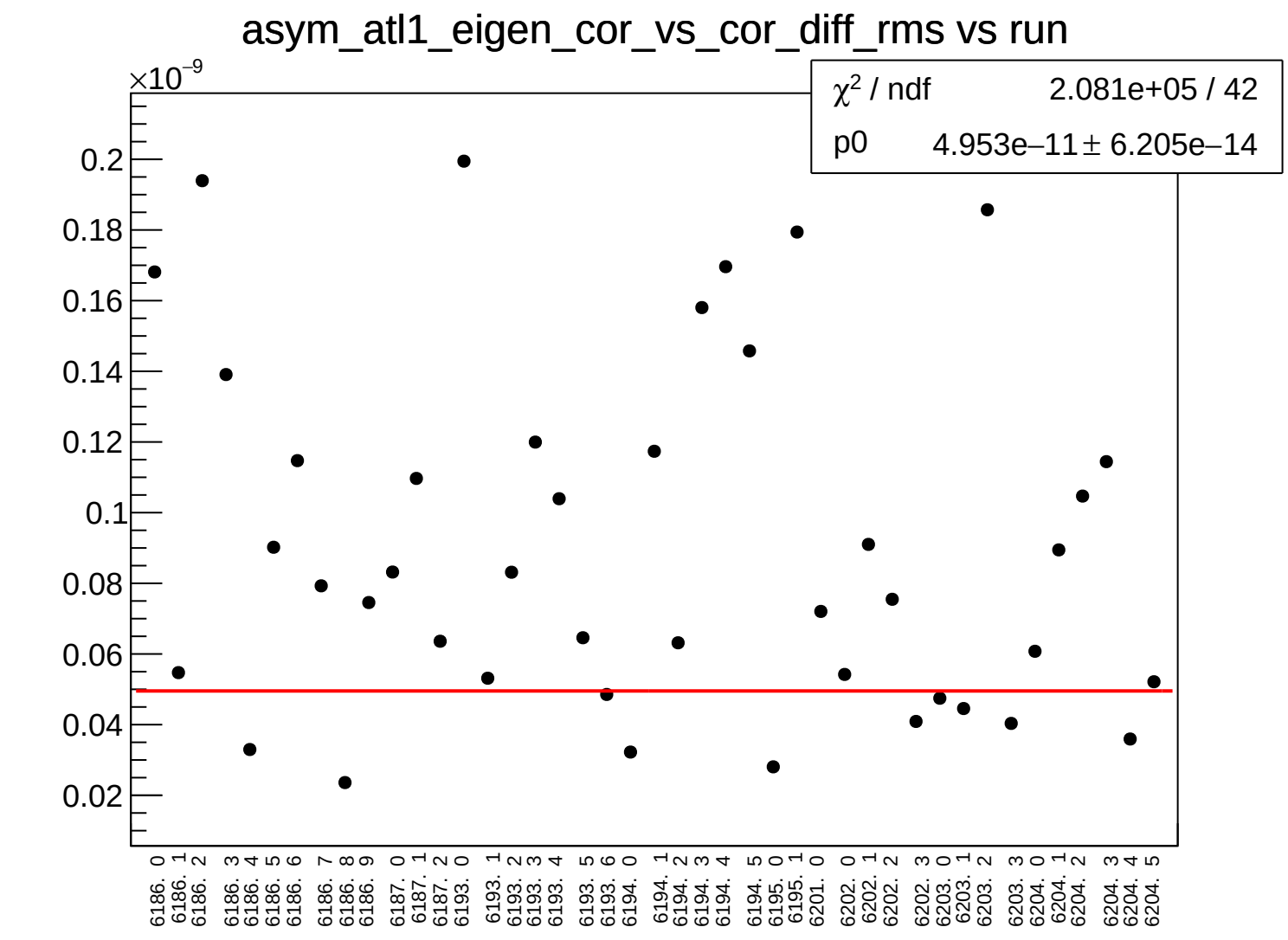

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.013e+05 / 42
p0 58.09 ± 0.06735
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

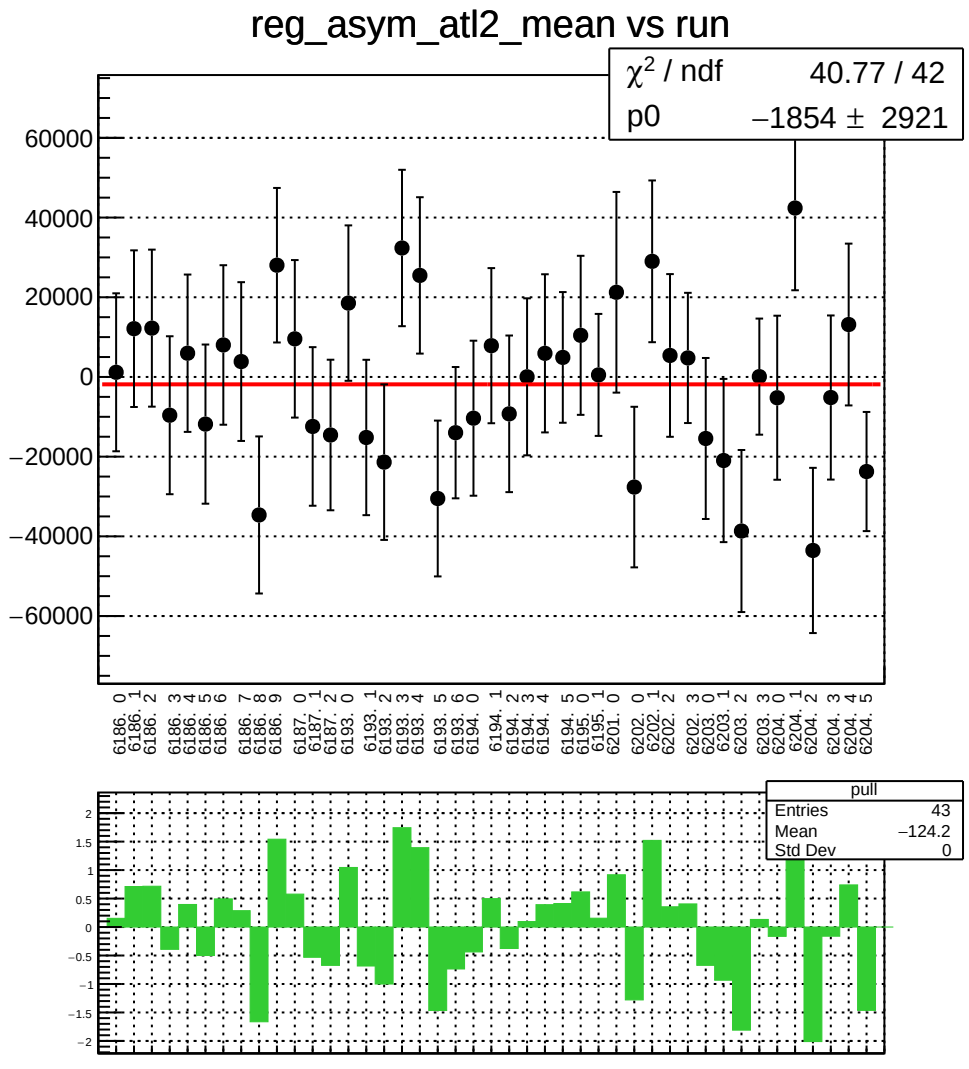

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.76 / 42
p0 0.00211 ± 0.09525
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 32.3
Std Dev 0

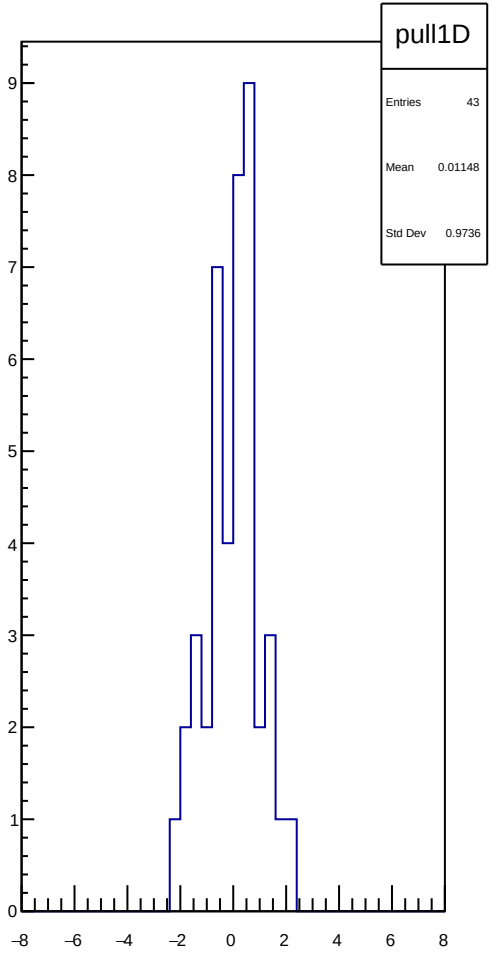

pull1D
Entries 43
Mean 0.1034
Std Dev 1.144

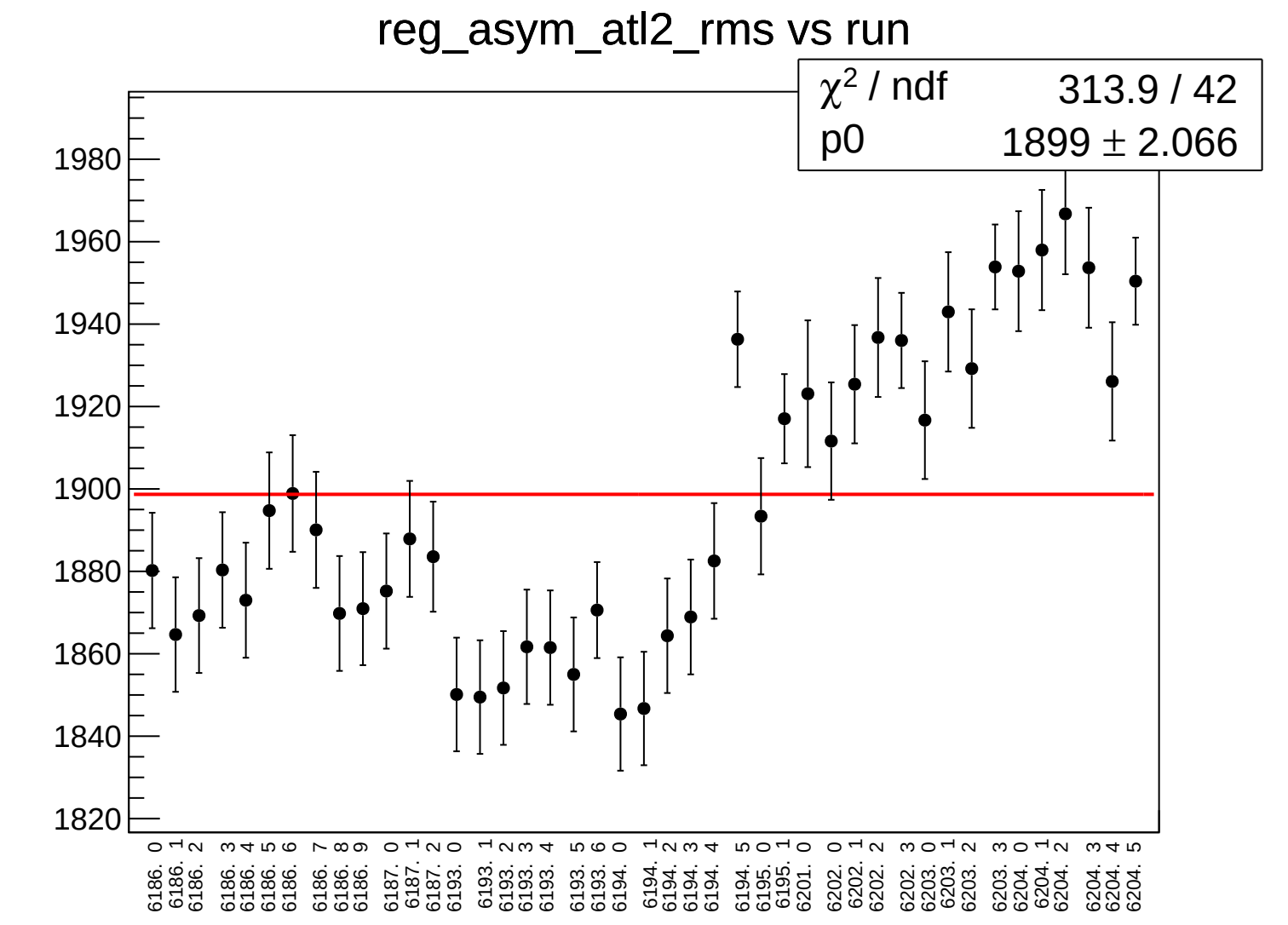

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.013e+05 / 42
p0 58.09 ± 0.06735
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

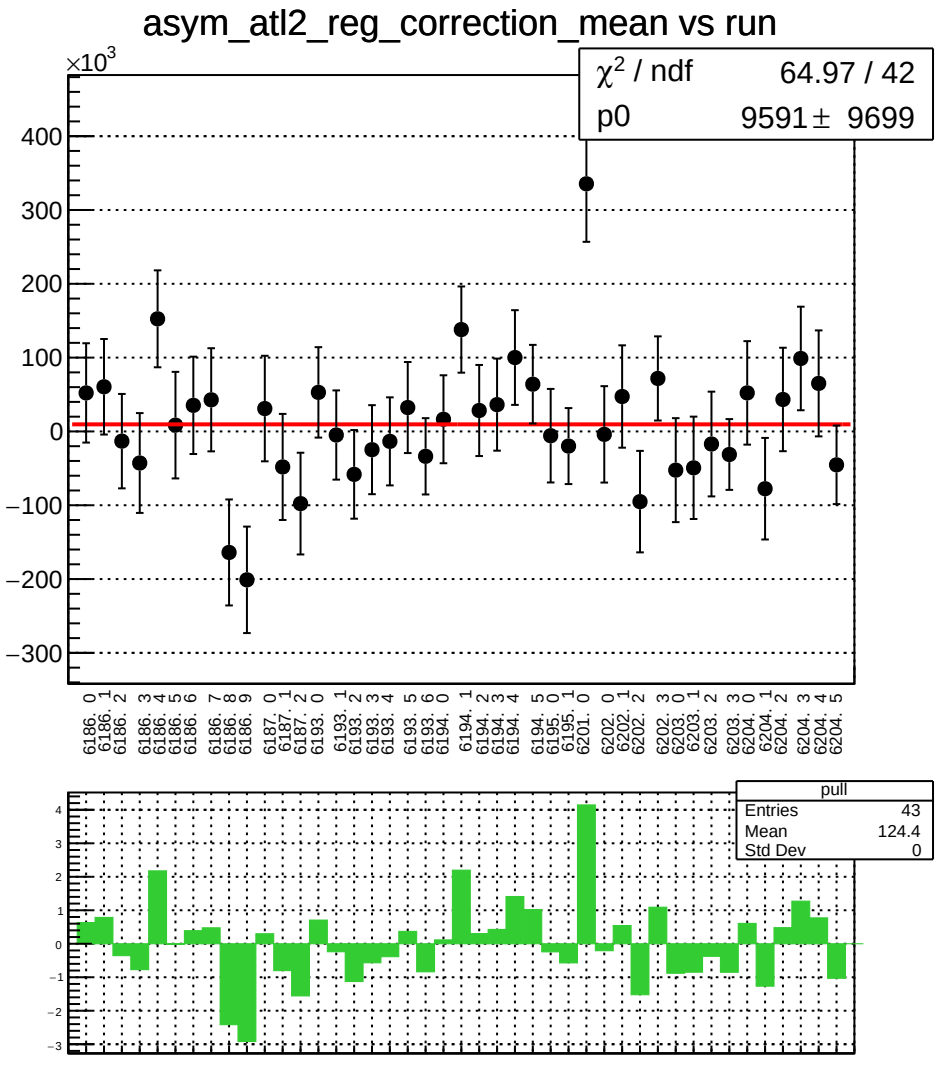

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 49 / 42
p0 2.485e−13 ± 8.776e−14
6
4
2
0
−2
−4
−6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 25.85
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.1643
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

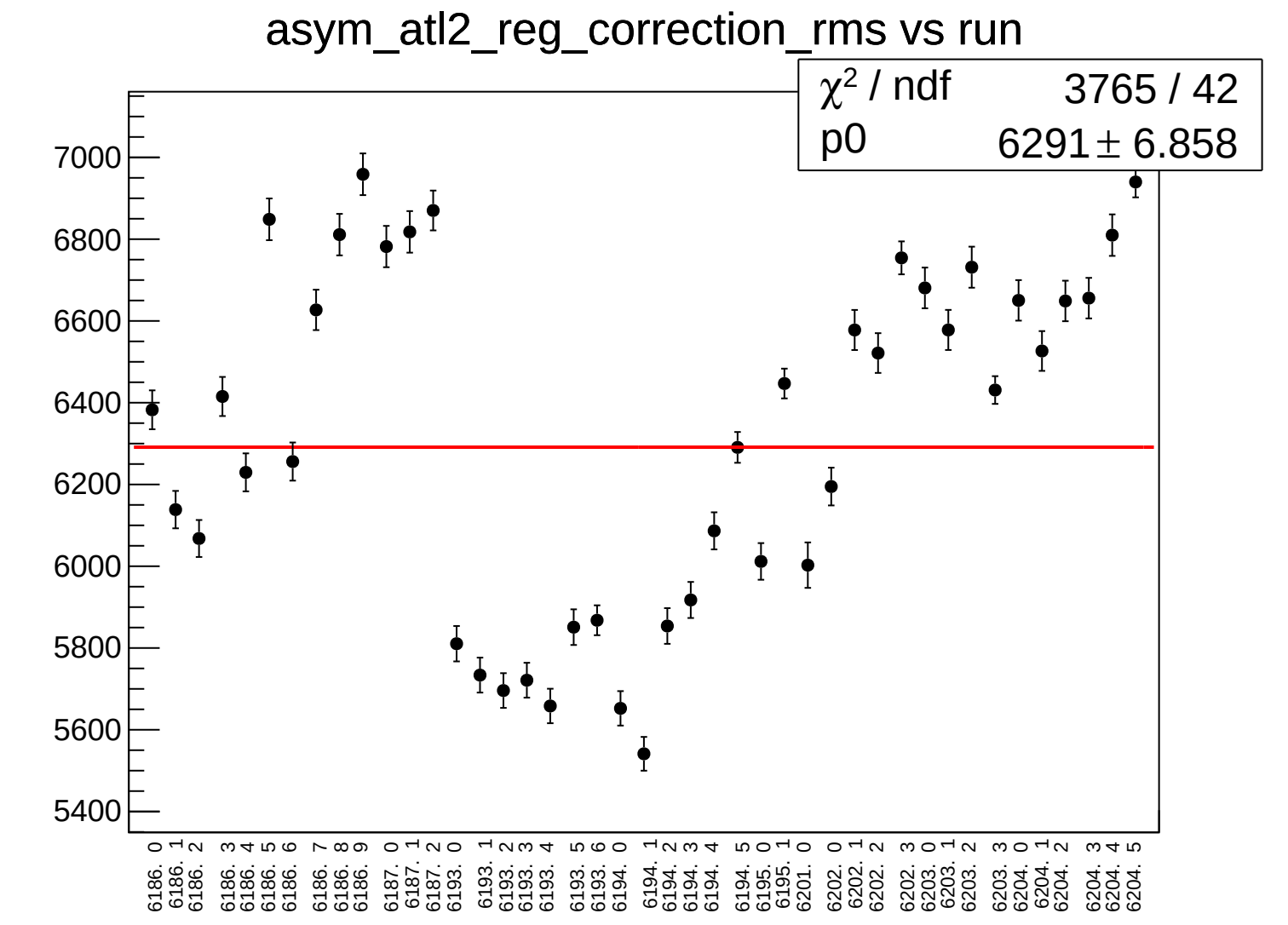

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.081e+05 / 42
p0 4.953e−11 ± 6.205e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

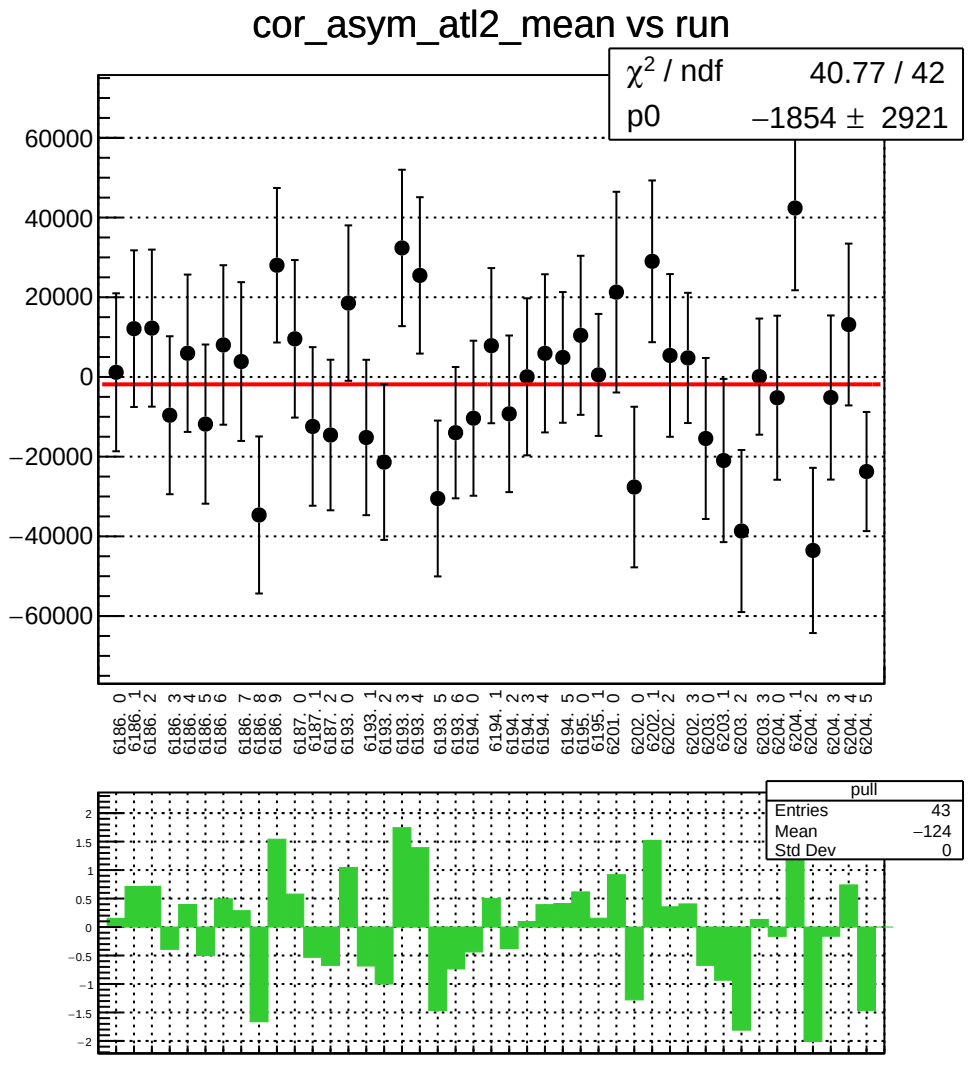

reg_asym_atl2_mean vs run
χ² / ndf 40.77 / 42
p0 −1854 ± 2921
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −124.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

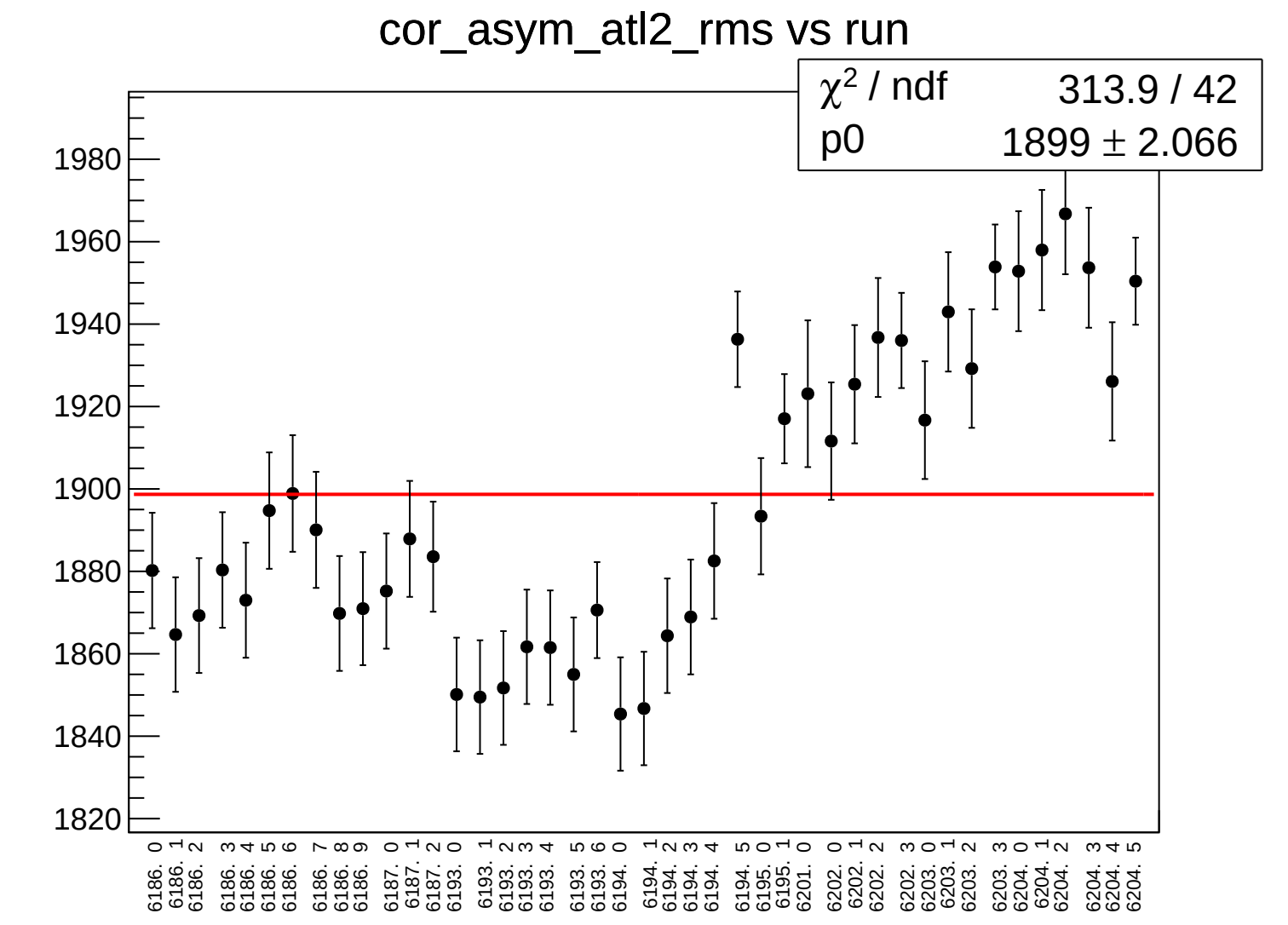

pull1D
Entries 43
Mean 0.01148
Std Dev 0.9736
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

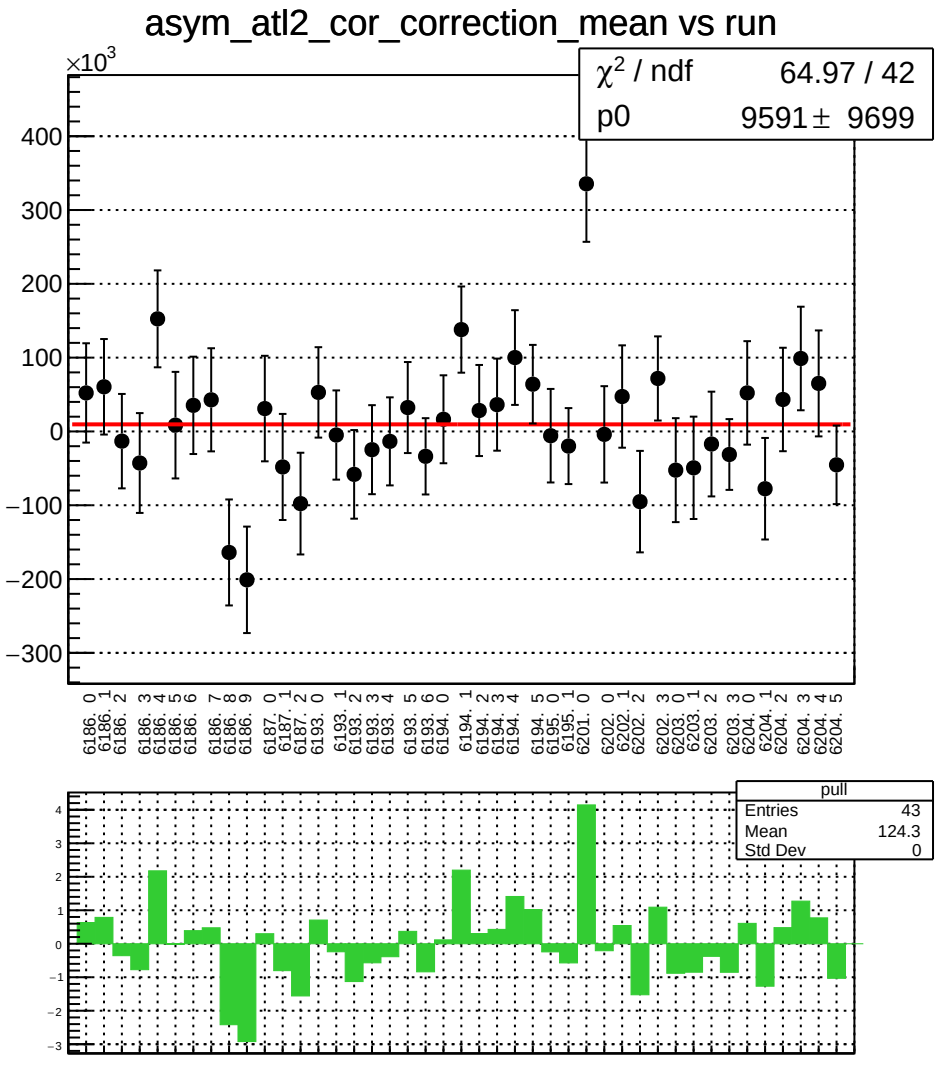

reg_asym_atl2_rms vs run
χ² / ndf 313.9 / 42
p0 1899 ± 2.066
1980
1960
1940
1920
1900
1880
1860
1840
1820
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

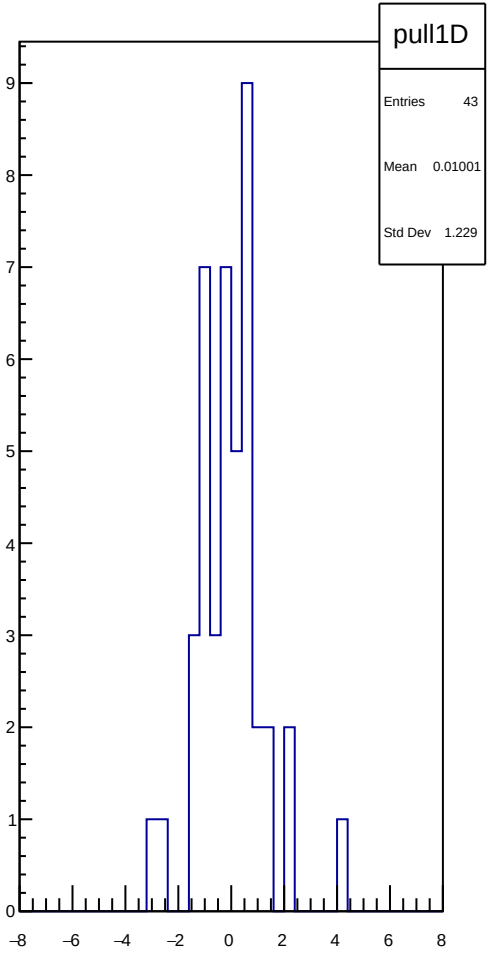

asym_atl2_reg_correction_mean vs run
×10^3
χ^2 / ndf 64.97 / 42
p0 9591 ± 9699
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 124.4
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01
Std Dev 1.229
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

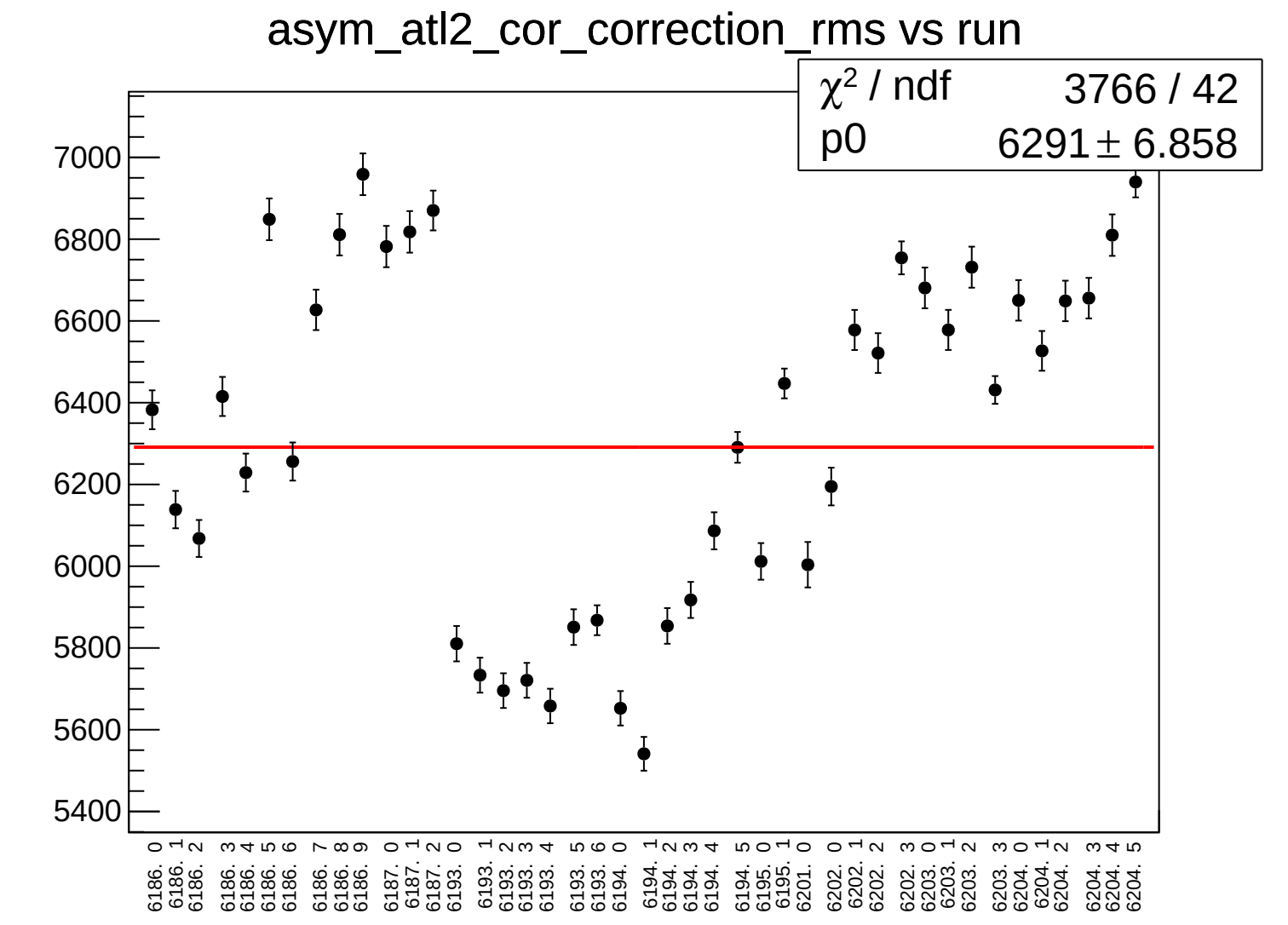

asym_atl2_reg_correction_rms vs run
χ² / ndf 3765 / 42
p0 6291 ± 6.858
7000
6800
6600
6400
6200
6000
5800
5600
5400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

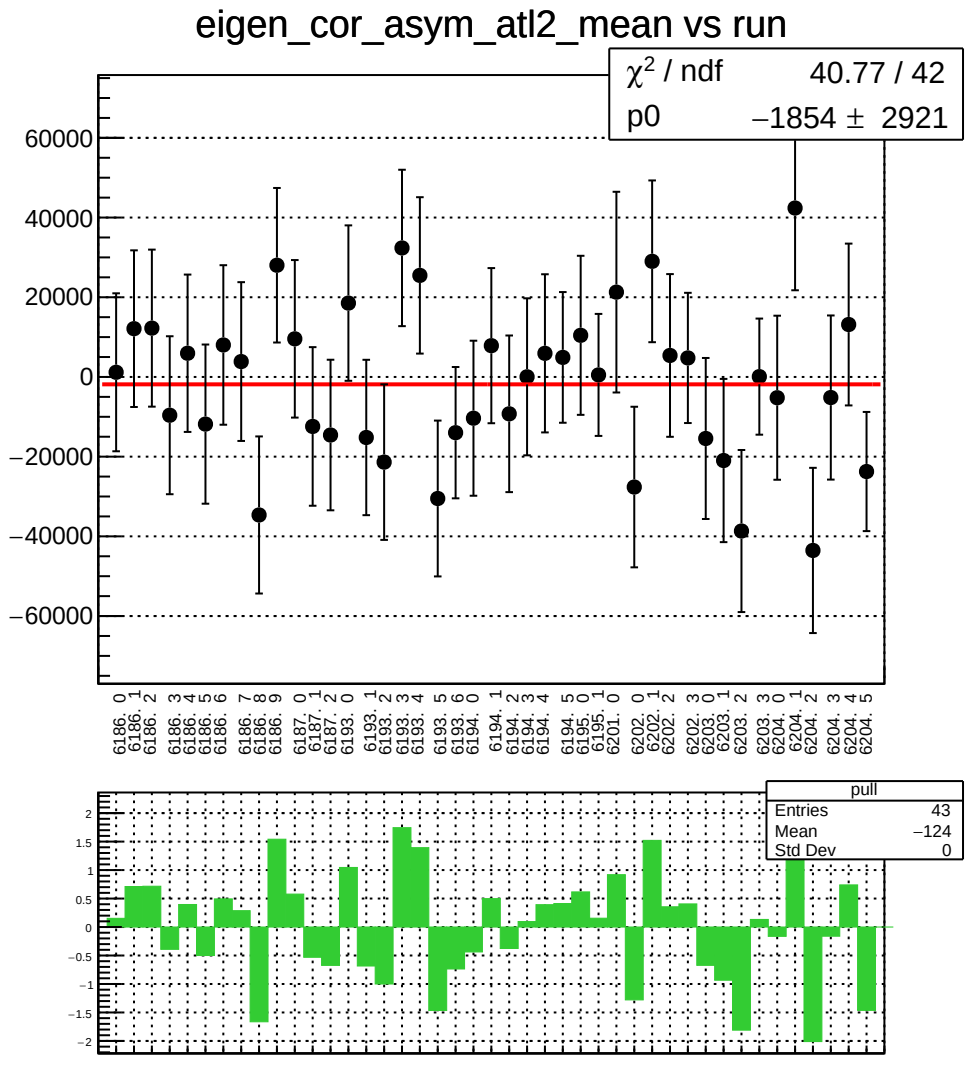

cor_asym_atl2_mean vs run
χ² / ndf 40.77 / 42
p0 −1854 ± 2921
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −124
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01149
Std Dev 0.9736
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

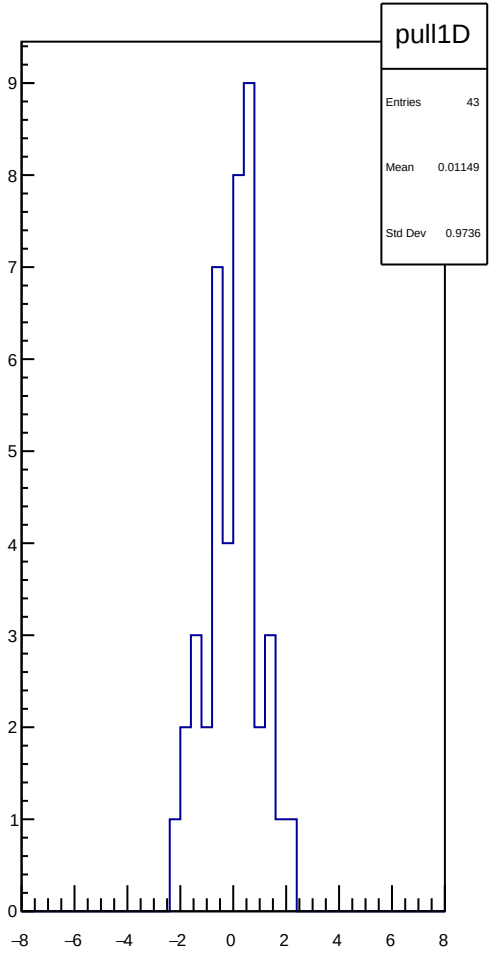

cor_asym_atl2_rms vs run
χ² / ndf 313.9 / 42
p0 1899 ± 2.066
1980
1960
1940
1920
1900
1880
1860
1840
1820
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

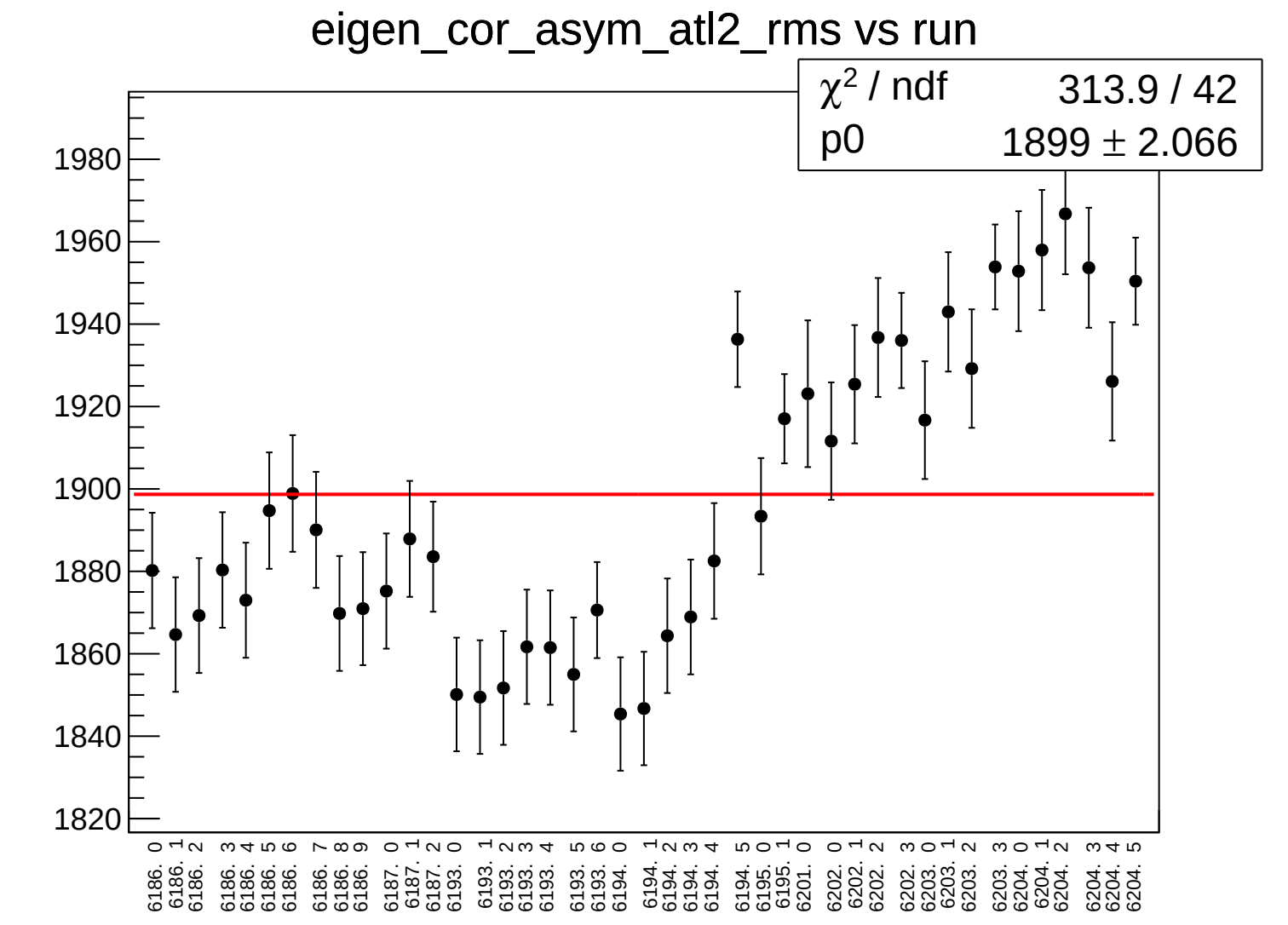

asym_atl2_cor_correction_mean vs run
χ² / ndf 64.97 / 42
p0 9591 ± 9699
×10³
pull
Entries 43
Mean 124.3
Std Dev 0

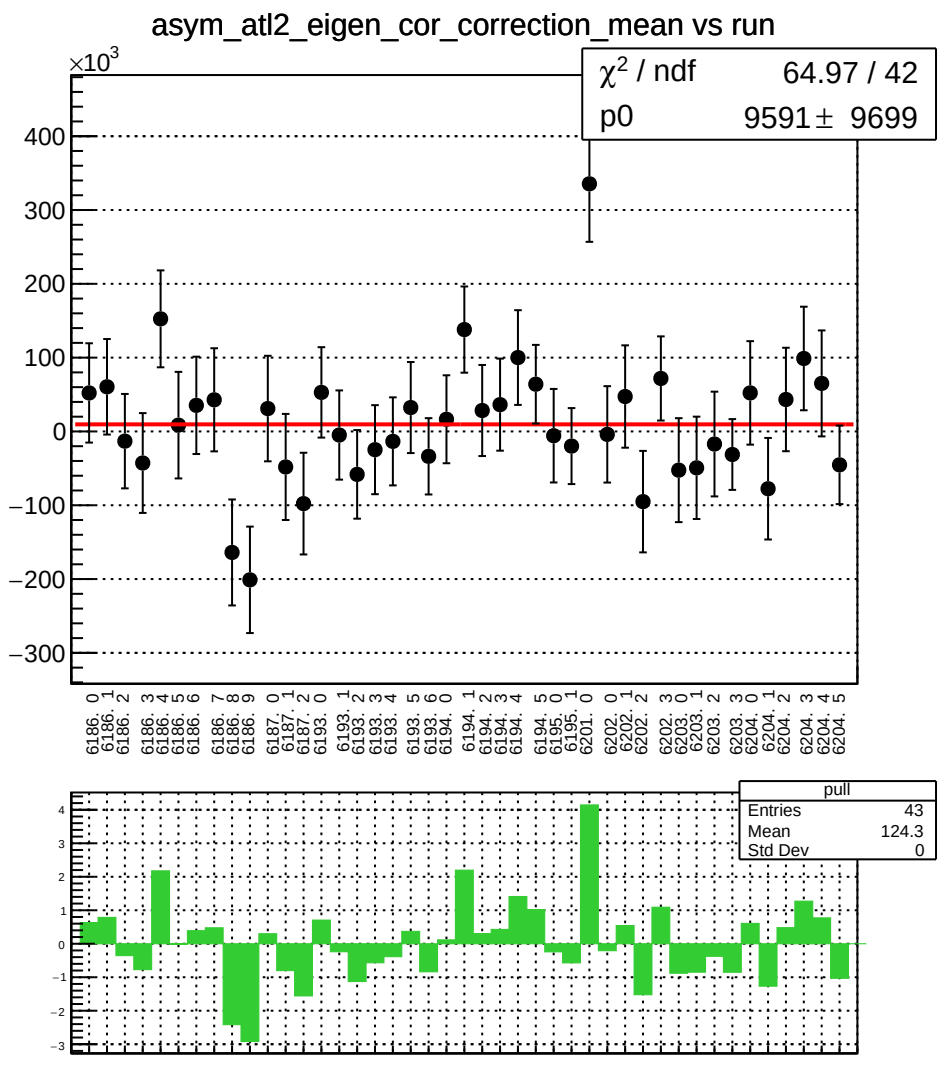

pull1D
Entries 43
Mean 0.01001
Std Dev 1.229

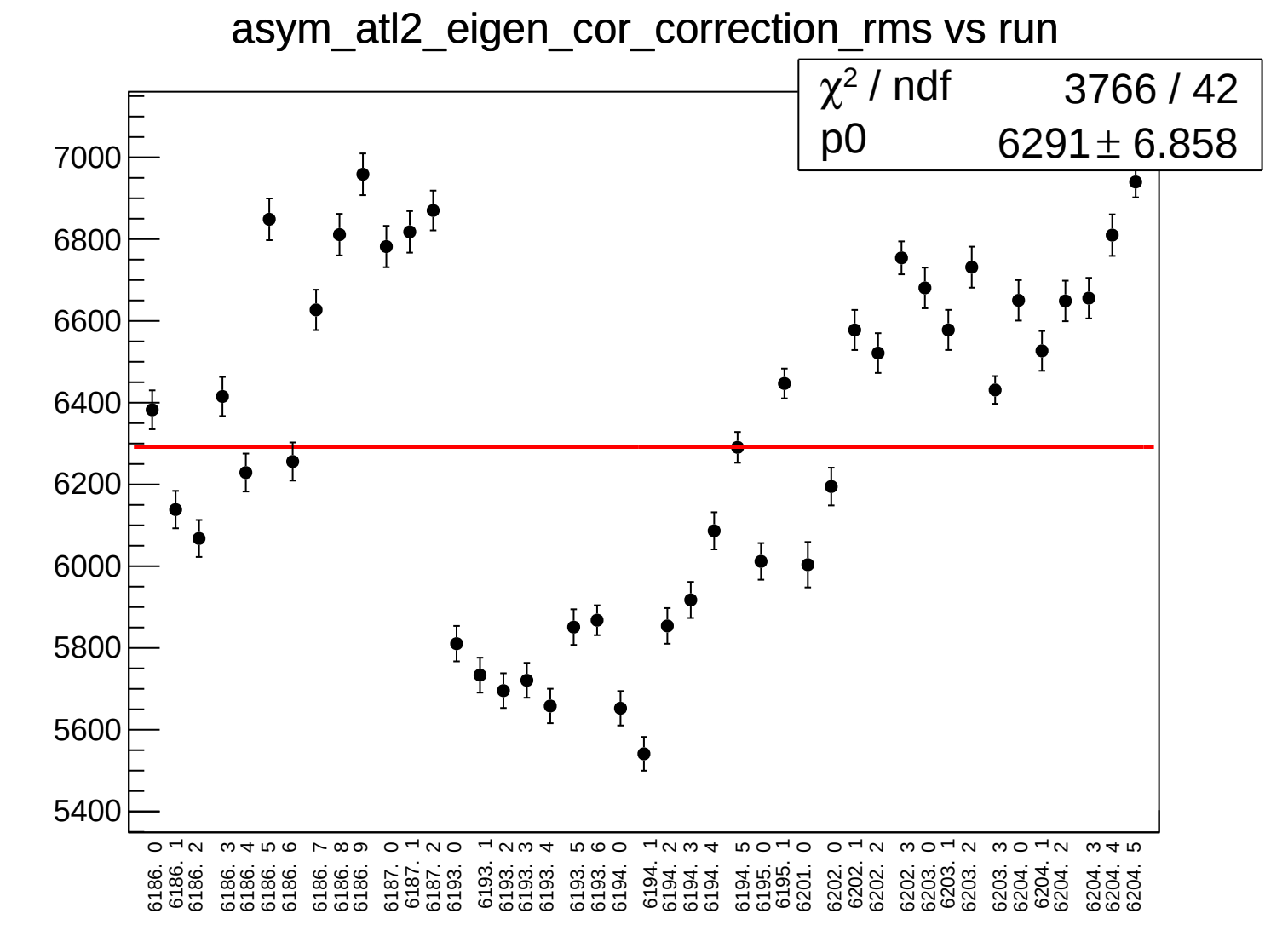

asym_atl2_cor_correction_rms vs run
χ² / ndf 3766 / 42
p0 6291 ± 6.858
7000
6800
6600
6400
6200
6000
5800
5600
5400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

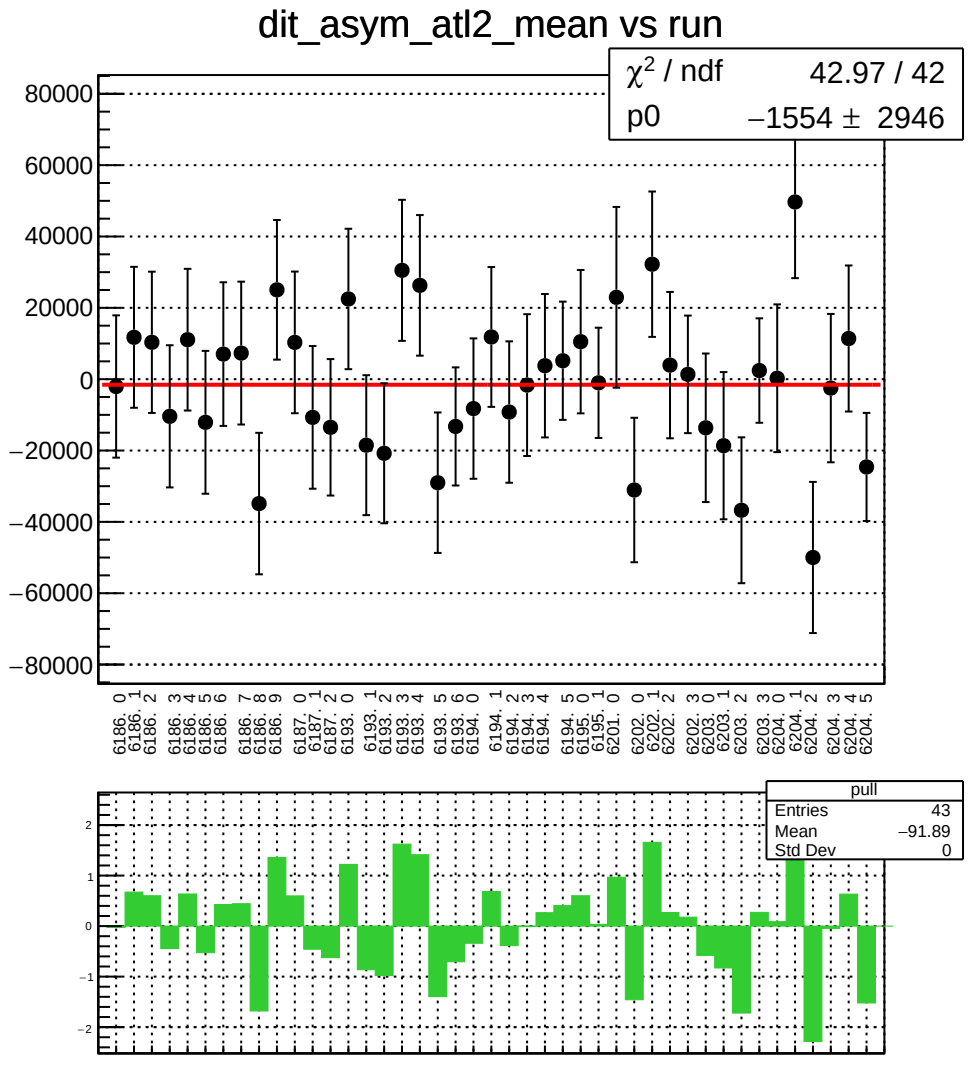

eigen_cor_asym_atl2_mean vs run
χ² / ndf 40.77 / 42
p0 −1854 ± 2921
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −124
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

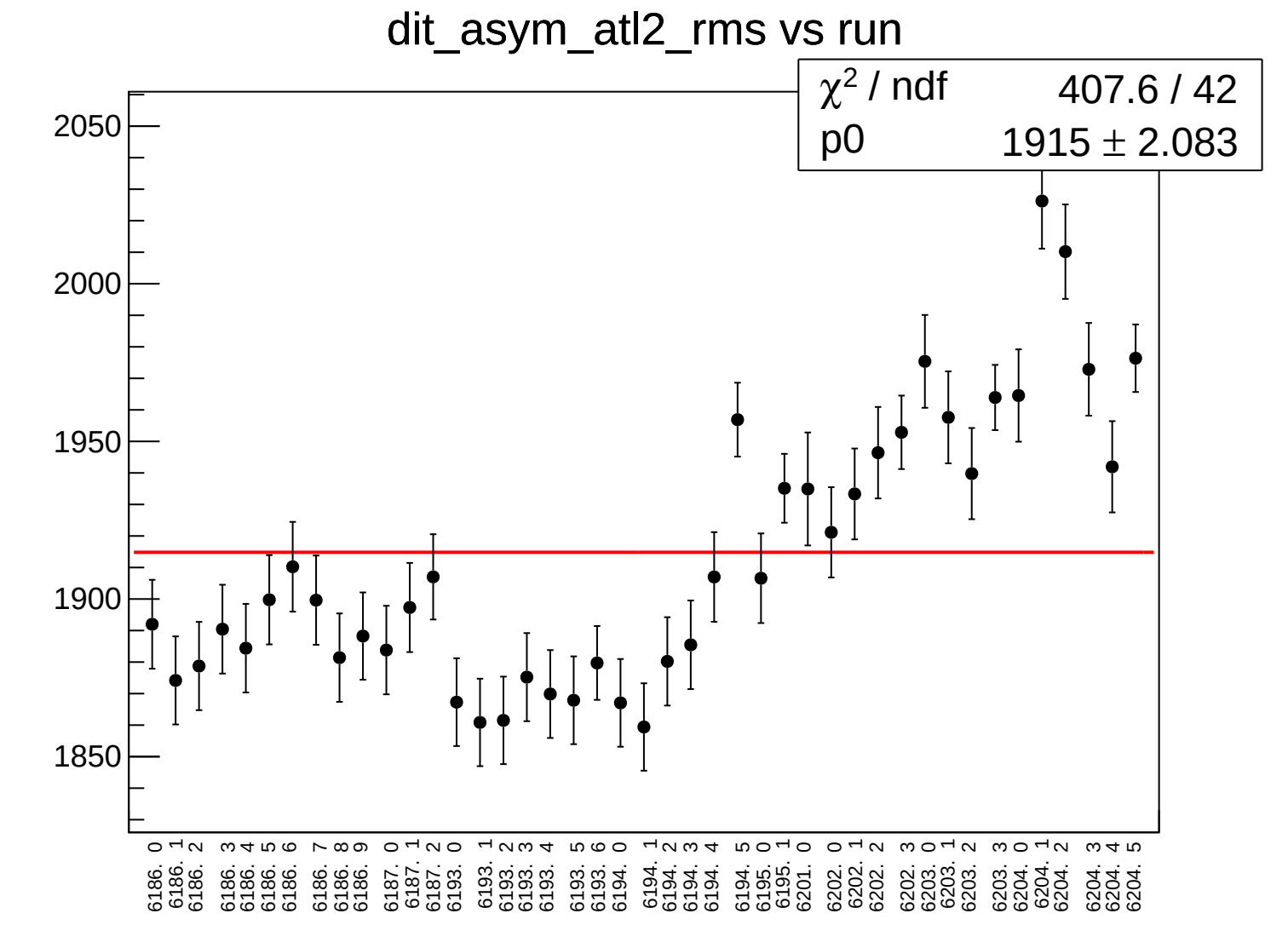

pull1D
Entries 43
Mean 0.01149
Std Dev 0.9736
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

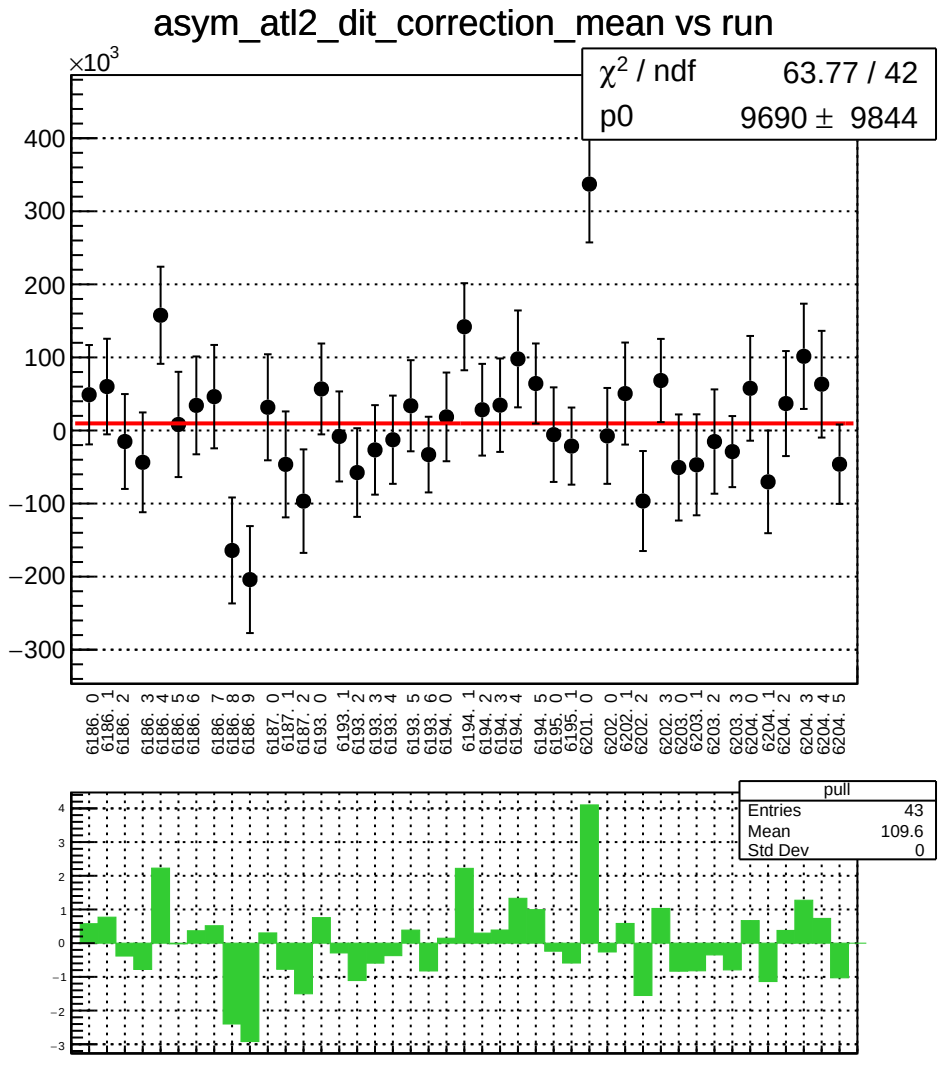

eigen_cor_asym_atl2_rms vs run
χ² / ndf 313.9 / 42
p0 1899 ± 2.066
1980
1960
1940
1920
1900
1880
1860
1840
1820
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

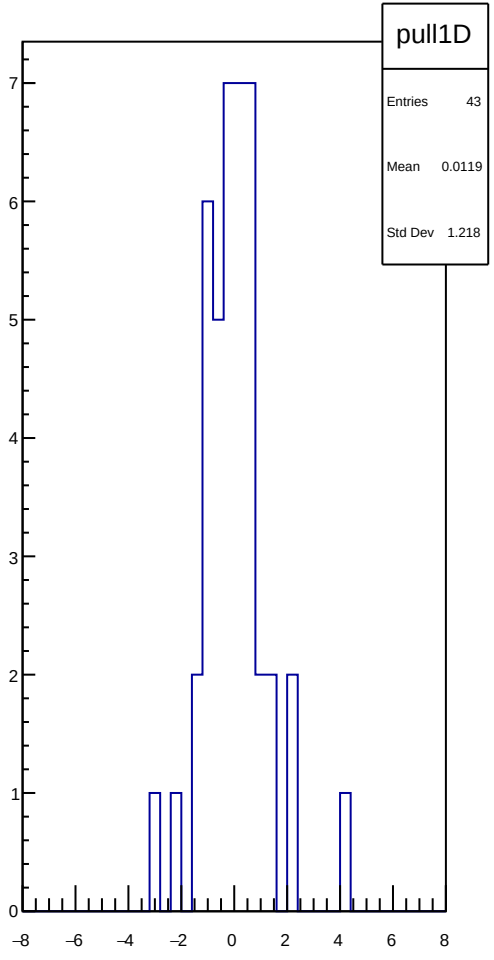

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 64.97 / 42
p0 9591 ± 9699
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 124.3
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01001
Std Dev 1.229
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

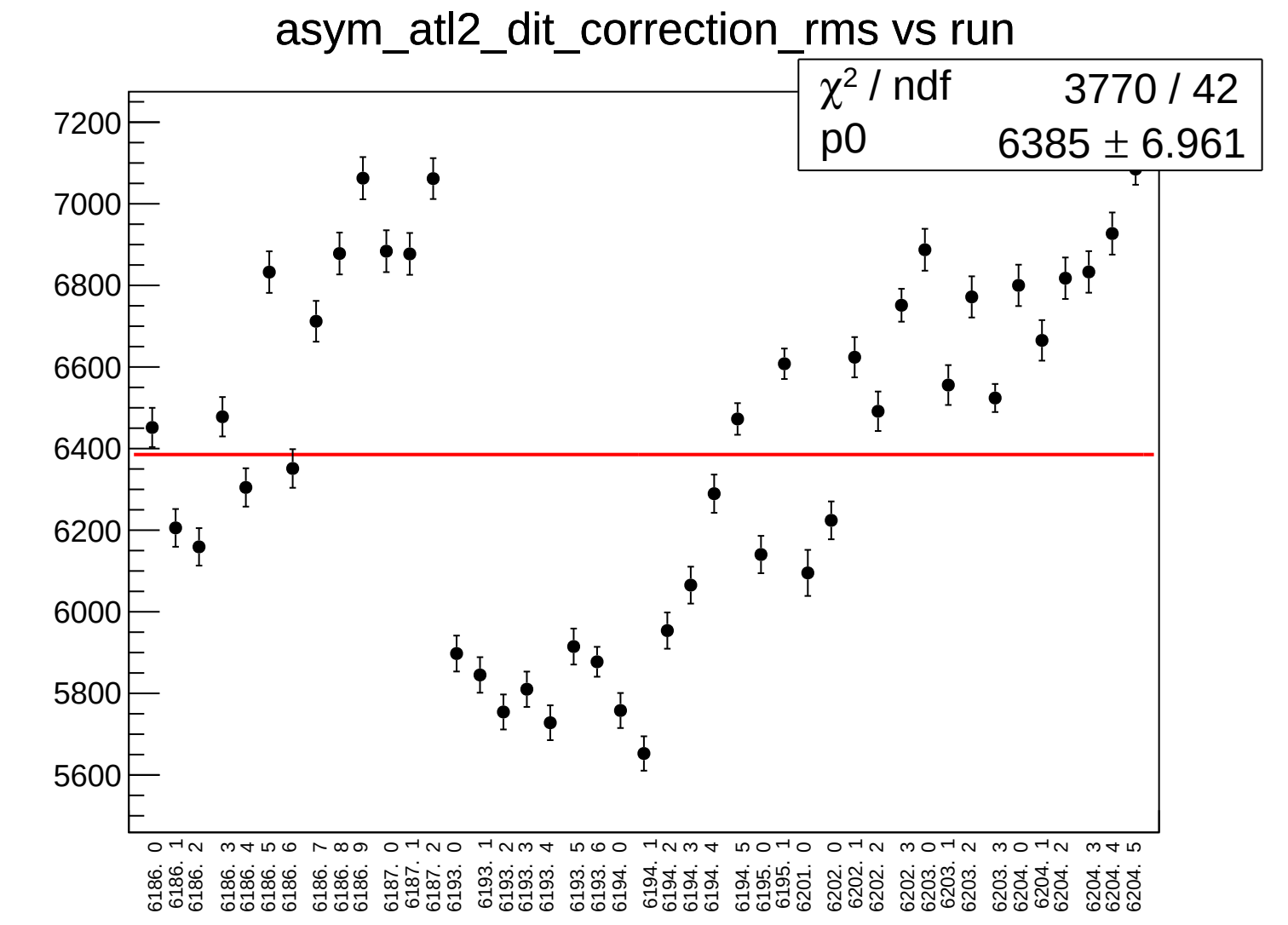

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 3766 / 42
p0 6291 ± 6.858
7000
6800
6600
6400
6200
6000
5800
5600
5400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

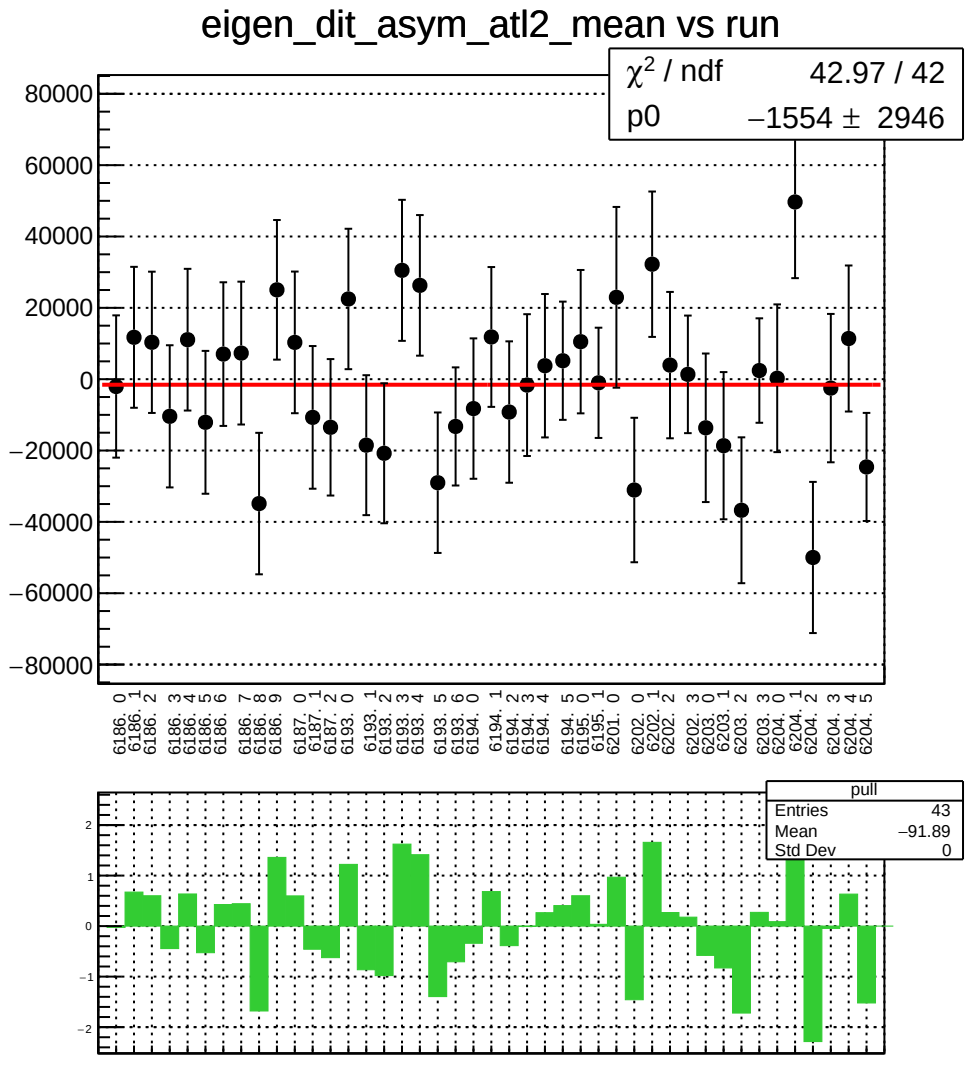

dit_asym_atl2_mean vs run
χ² / ndf 42.97 / 42
p0 −1554 ± 2946
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −91.89
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.0133
Std Dev 0.9996
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

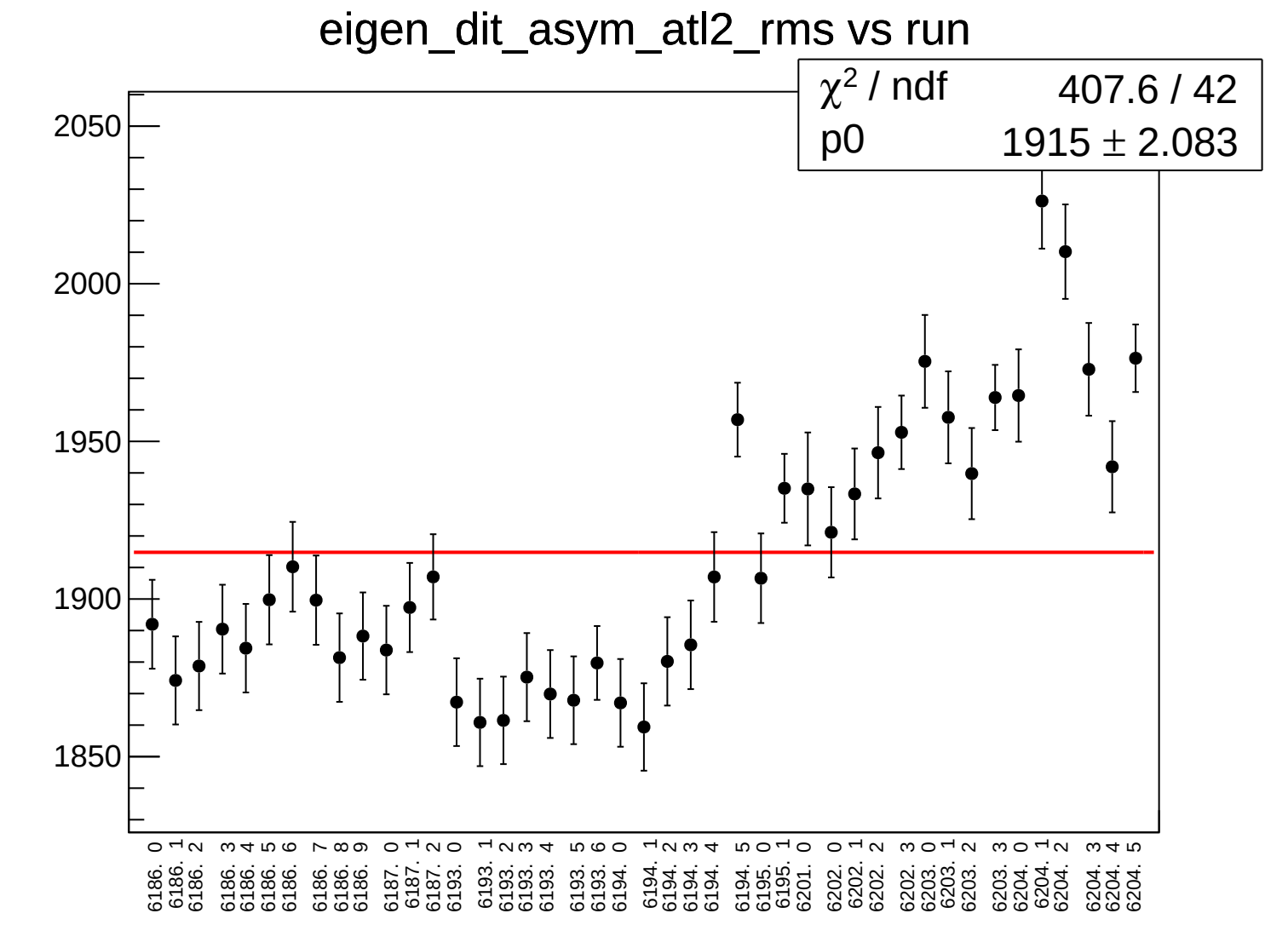

dit_asym_atl2_rms vs run
χ^2 / ndf 407.6 / 42
p0 1915 ± 2.083
2050
2000
1950
1900
1850
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

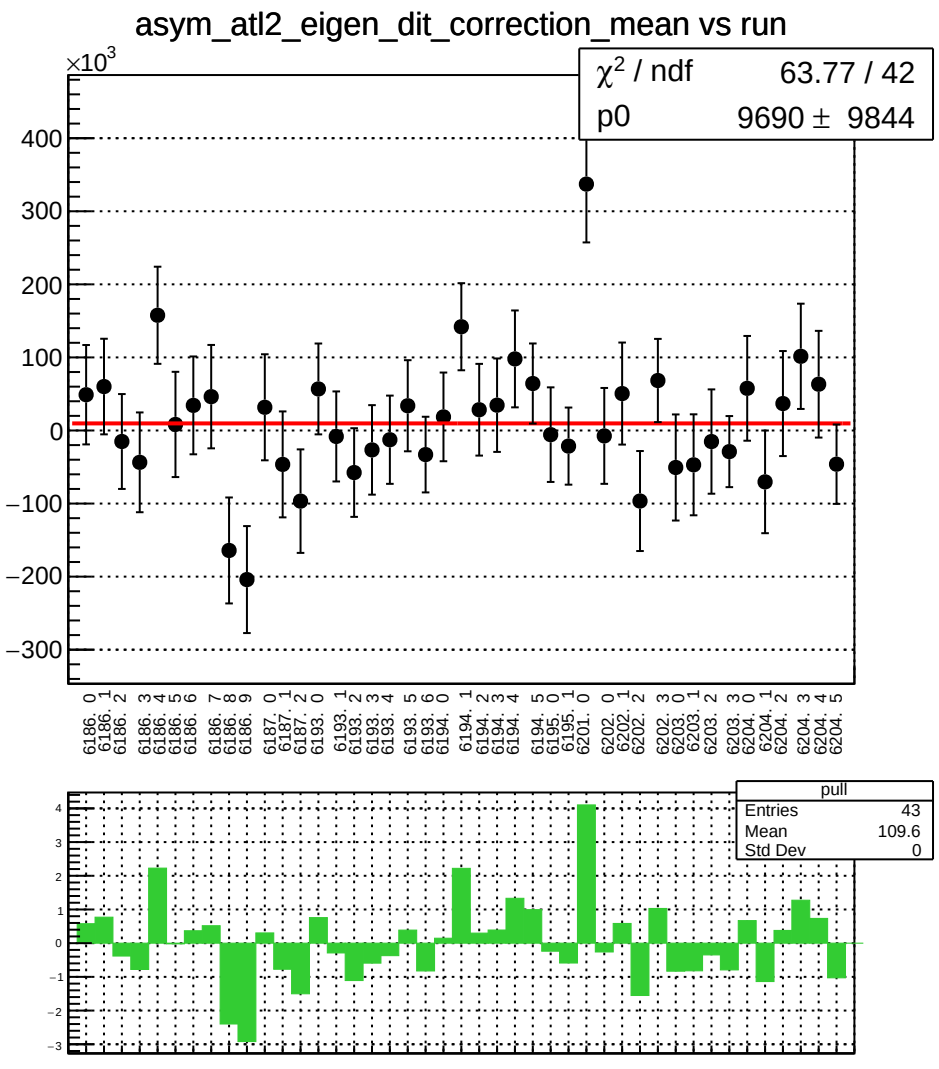

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 63.77 / 42
p0 9690 ± 9844
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 109.6
Std Dev 0
4
3
2
1
0
−1
−2
−3

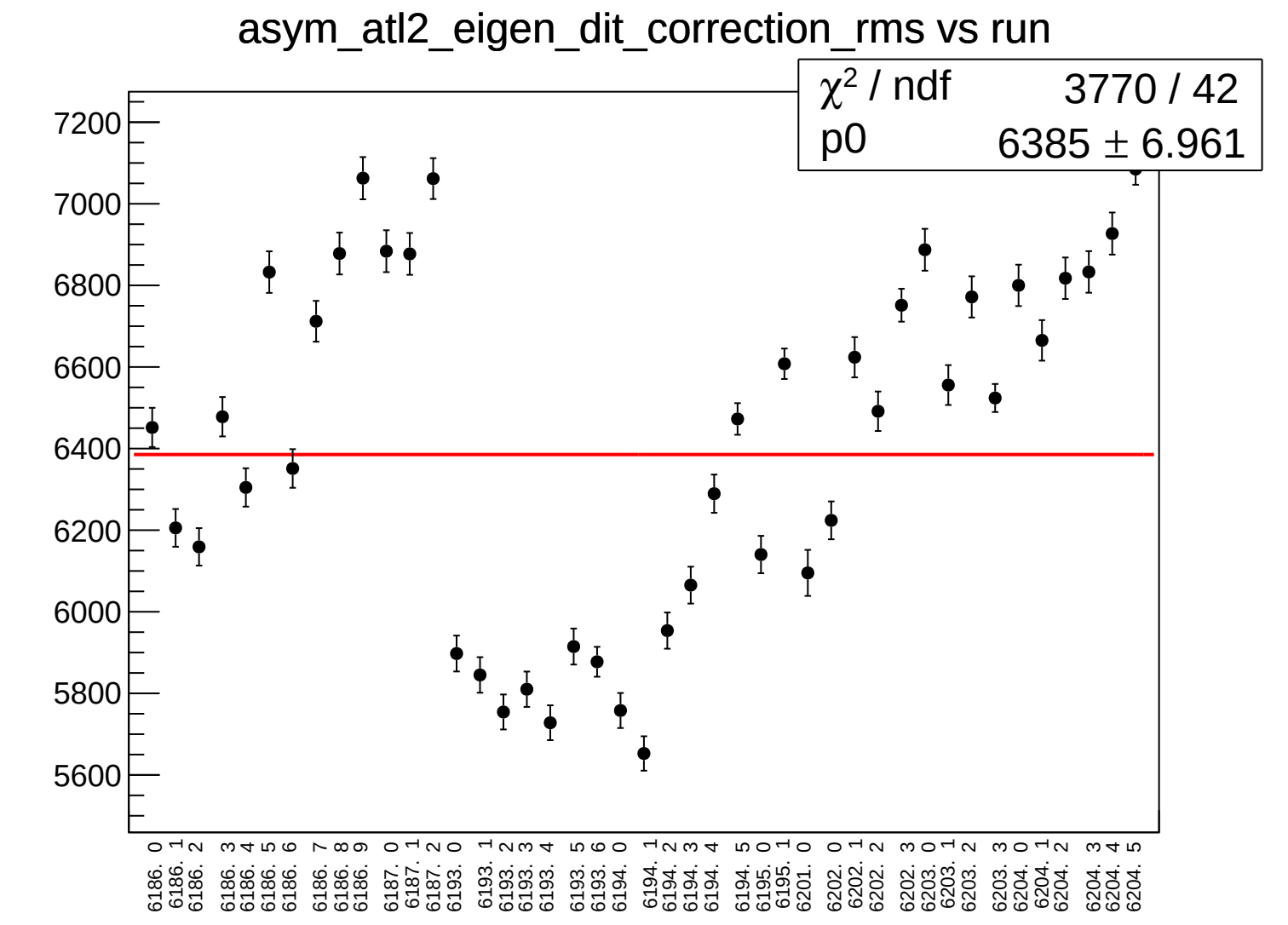

pull1D
Entries 43
Mean 0.0119
Std Dev 1.218
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

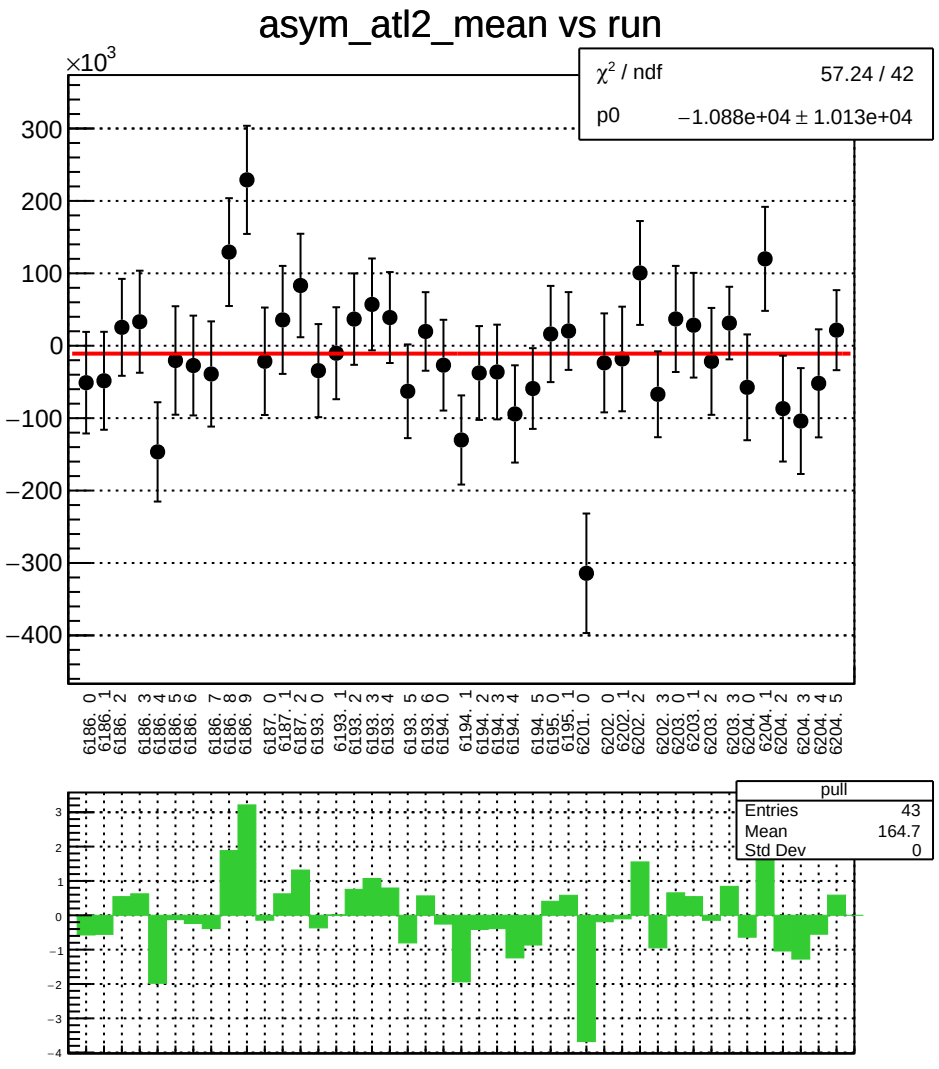

asym_atl2_dit_correction_rms vs run
χ² / ndf 3770 / 42
p0 6385 ± 6.961
7200
7000
6800
6600
6400
6200
6000
5800
5600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

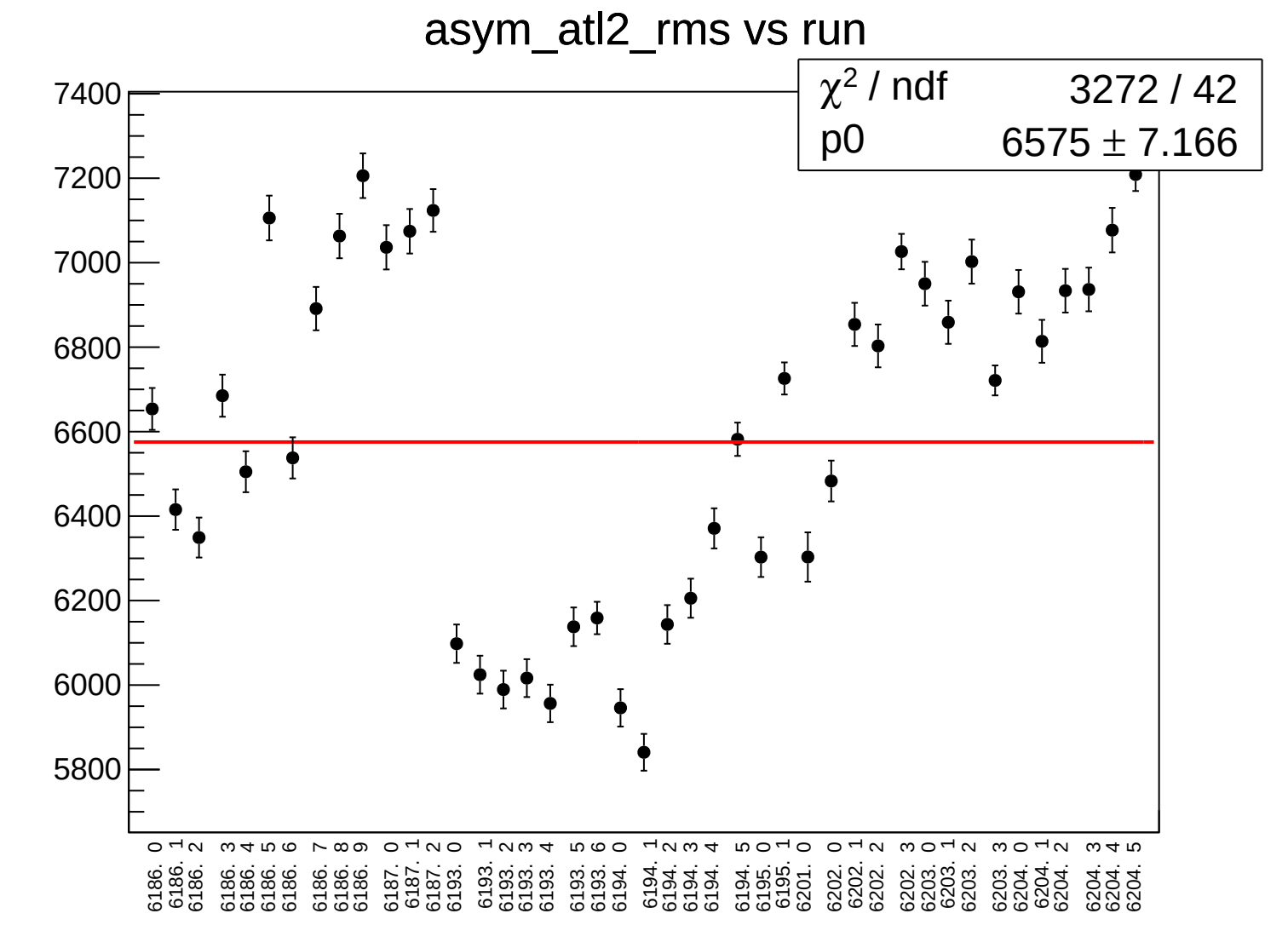

eigen_dit_asym_atl2_mean vs run
χ² / ndf 42.97 / 42
p0 −1554 ± 2946
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −91.89
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.0133
Std Dev 0.9996
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

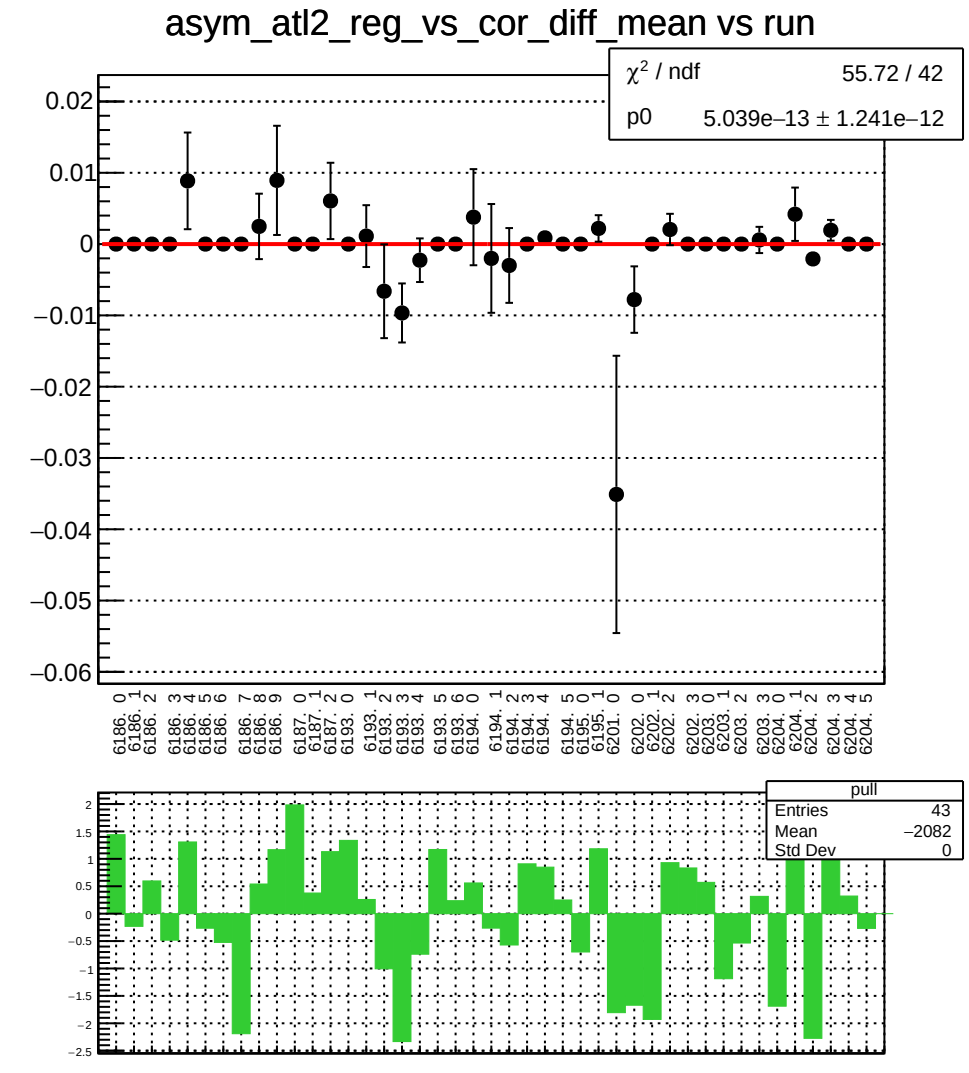

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 407.6 / 42
p0 1915 ± 2.083
2050
2000
1950
1900
1850
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

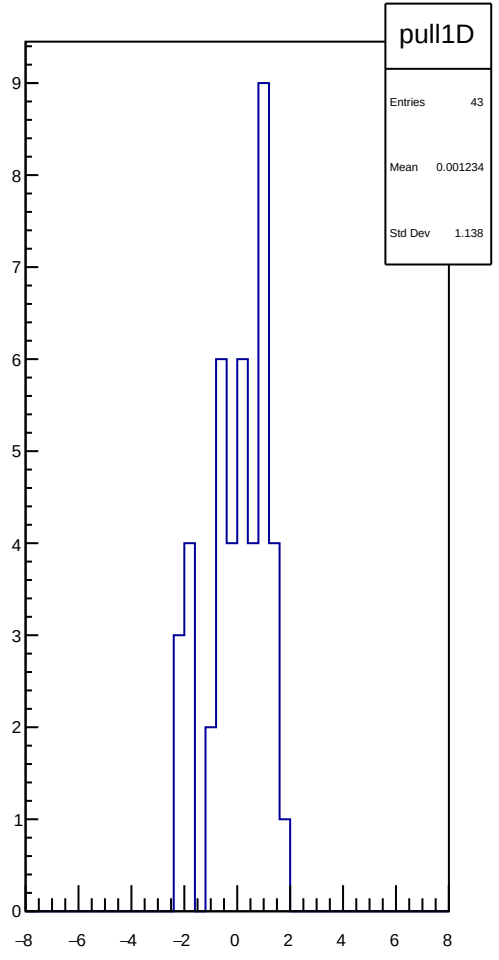

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 63.77 / 42
p0 9690 ± 9844
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 109.6
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.0119
Std Dev 1.218
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

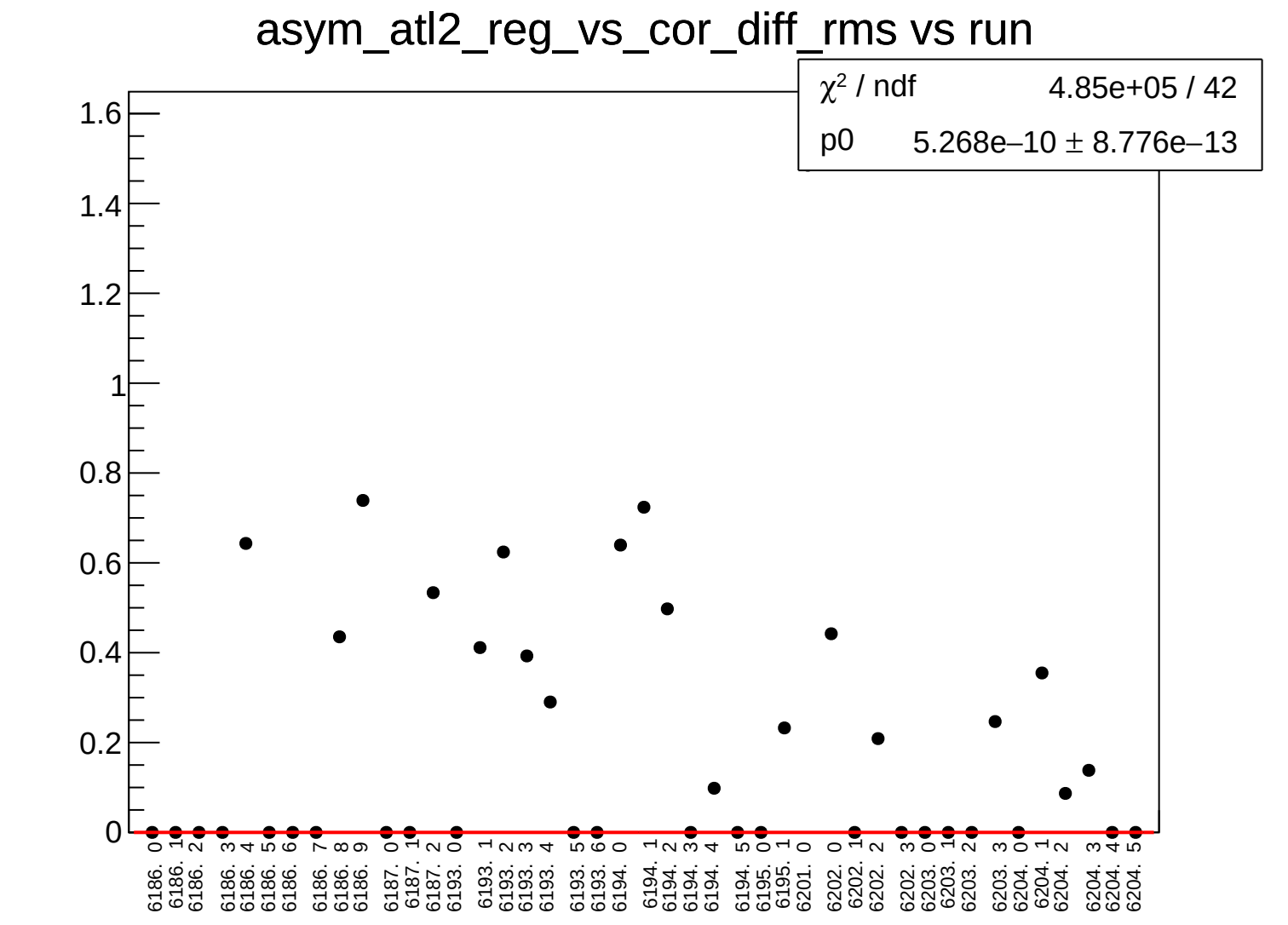

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 3770 / 42
p0 6385 ± 6.961
7200
7000
6800
6600
6400
6200
6000
5800
5600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl2_mean vs run
×10^3
χ² / ndf 57.24 / 42
p0 −1.088e+04 ± 1.013e+04
300
200
100
0
−100
−200
−300
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 164.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.01026
Std Dev 1.154
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl2_rms vs run
χ² / ndf 3272 / 42
p0 6575 ± 7.166
7400
7200
7000
6800
6600
6400
6200
6000
5800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 55.72 / 42
p0 5.039e−13 ± 1.241e−12
pull
Entries 43
Mean −2082
Std Dev 0


pull1D
Entries 43
Mean 0.001234
Std Dev 1.138


asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 4.85e+05 / 42
p0 5.268e−10 ± 8.776e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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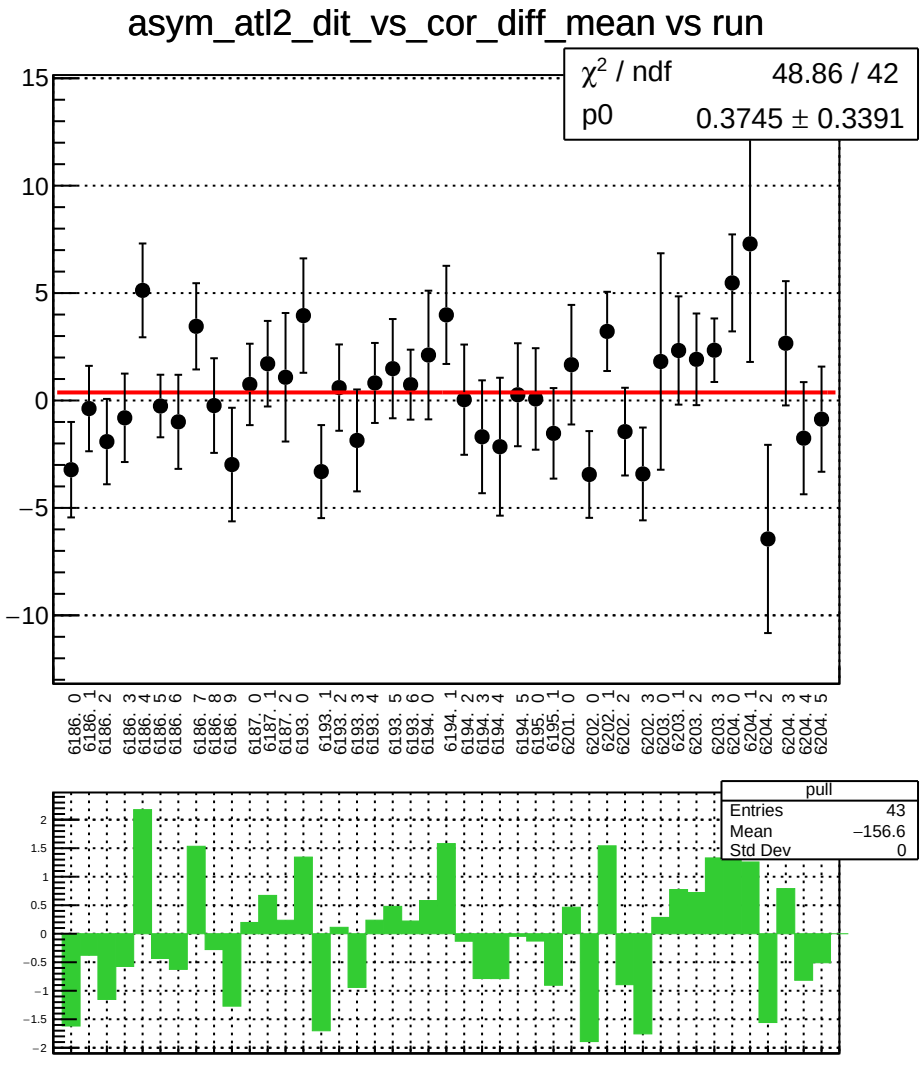
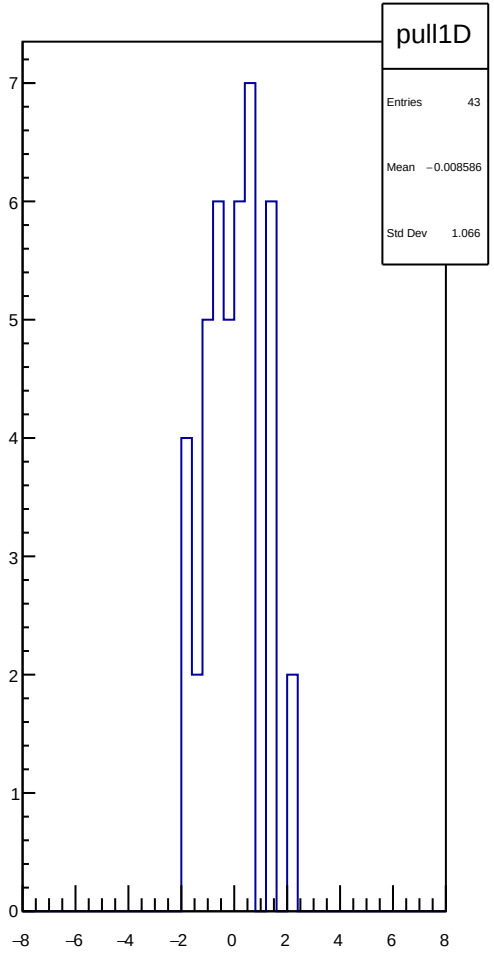
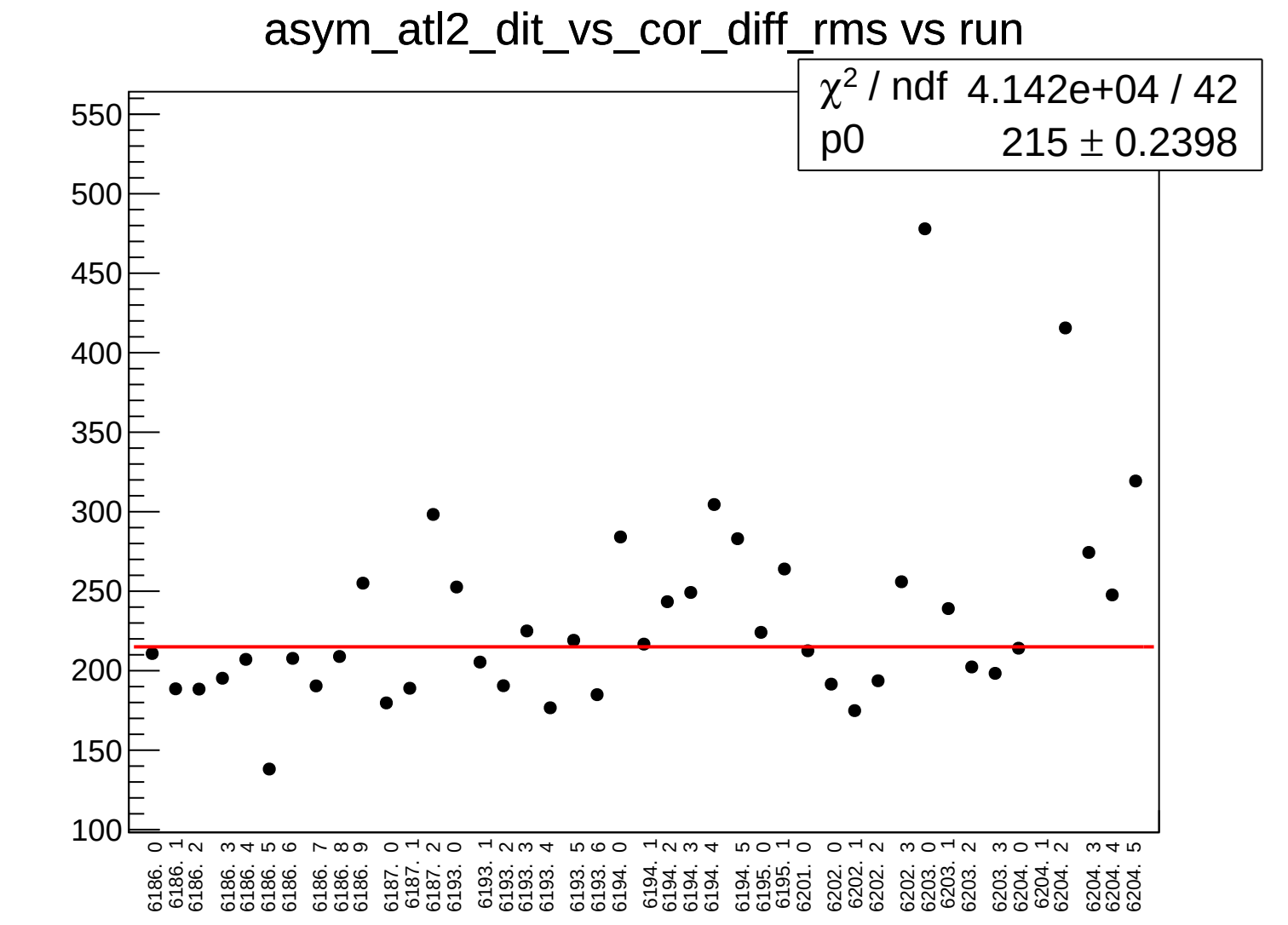
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 48.86 / 42
p0 0.3745 ± 0.3391
15
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −156.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.008586
Std Dev 1.066
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 4.142e+04 / 42
p0 215 ± 0.2398
550
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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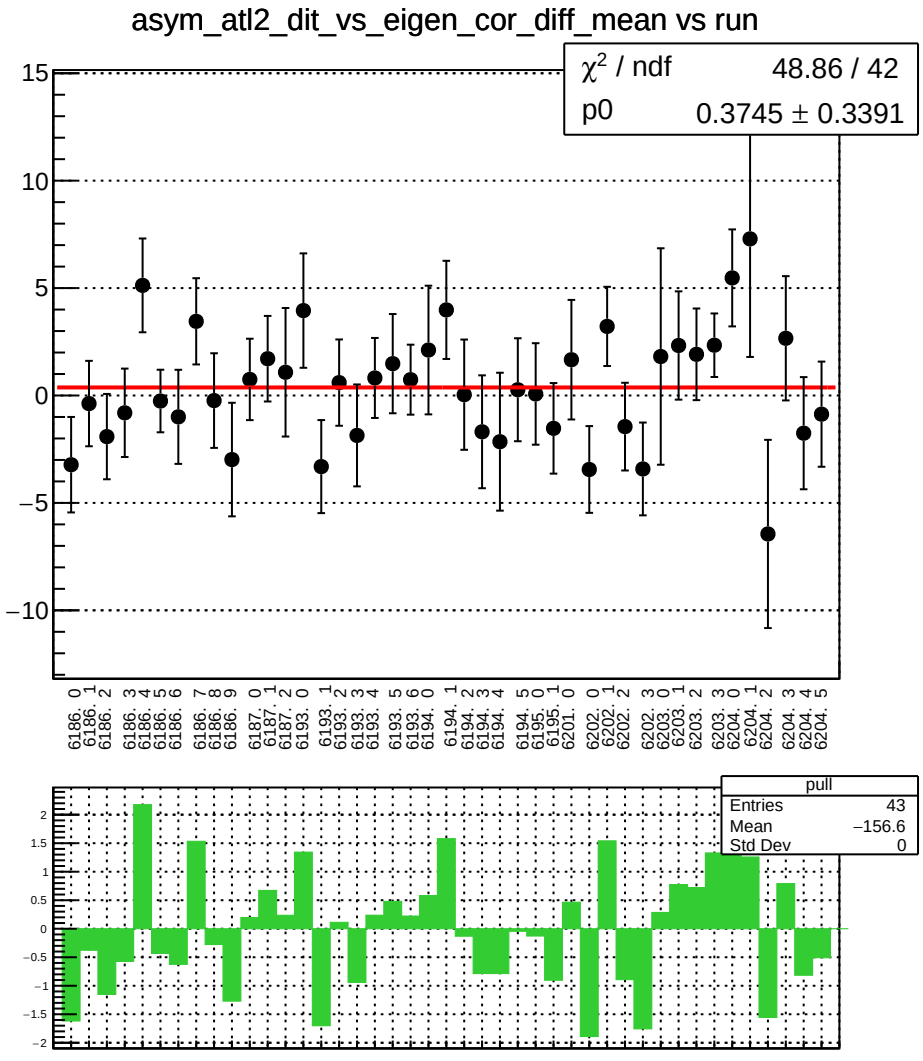
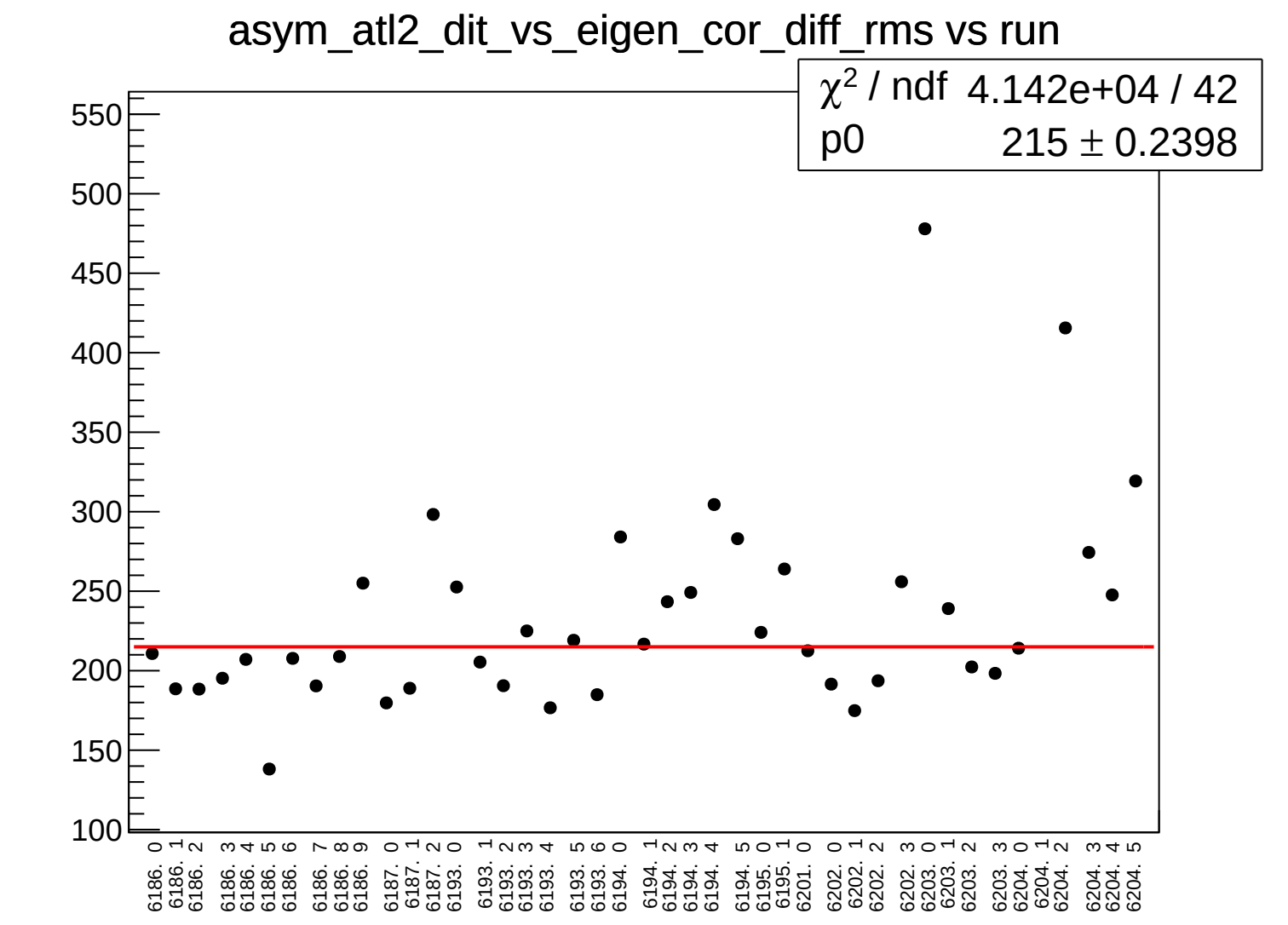
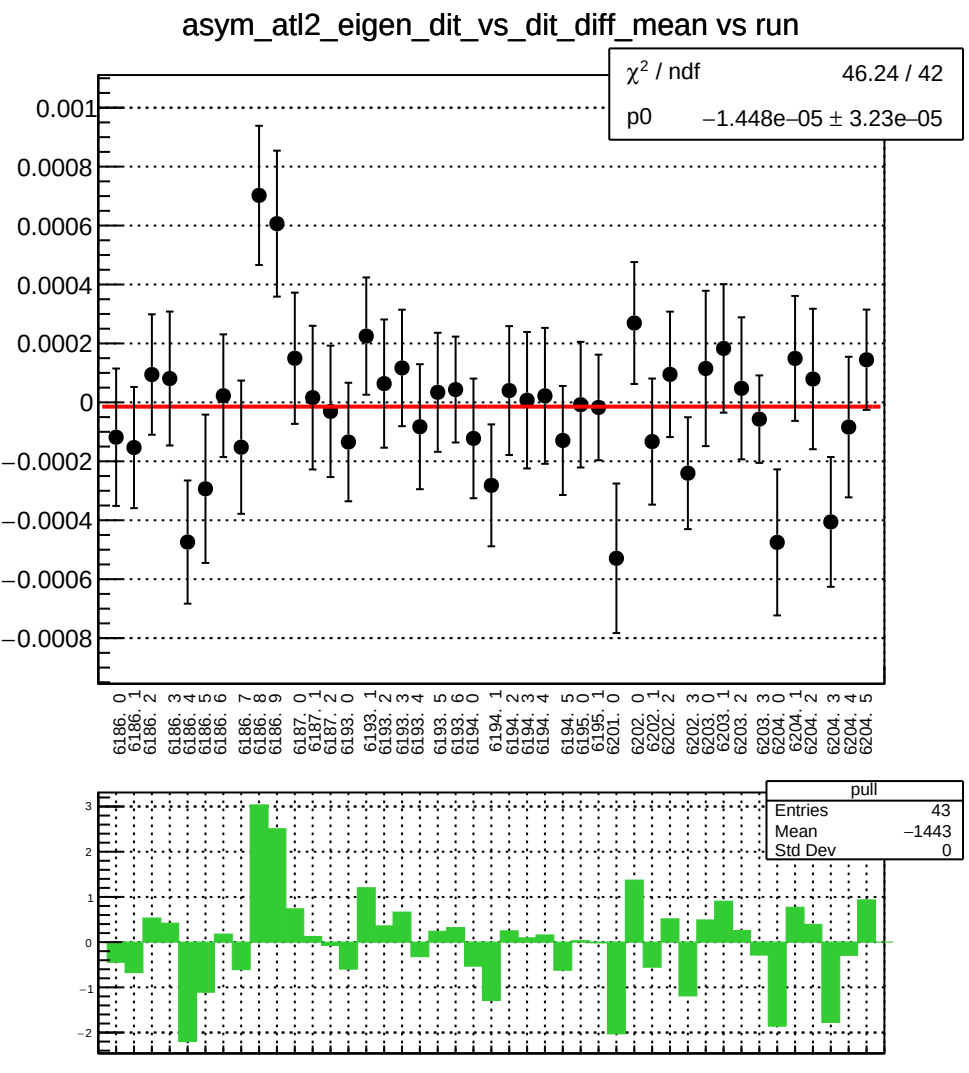
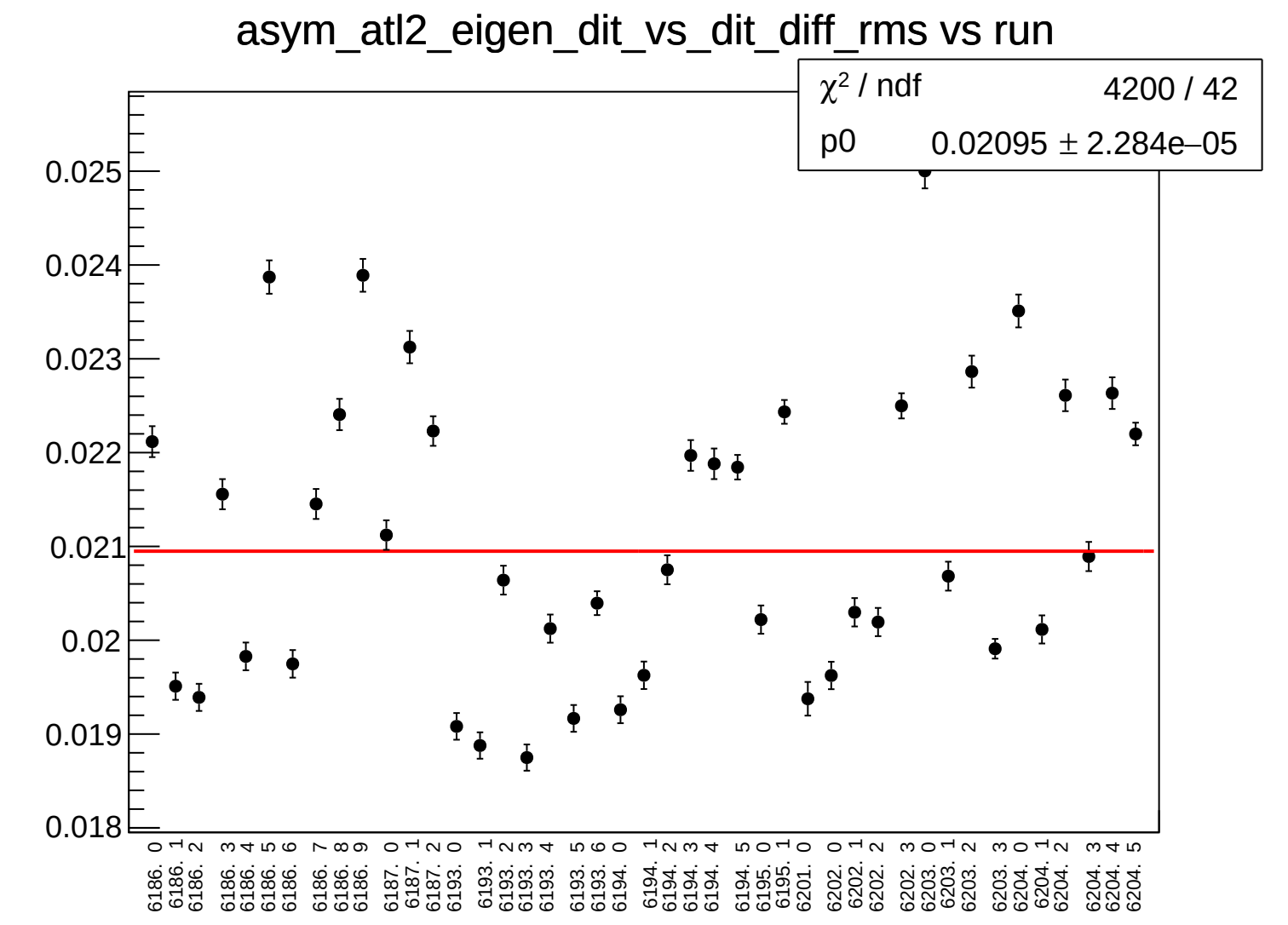
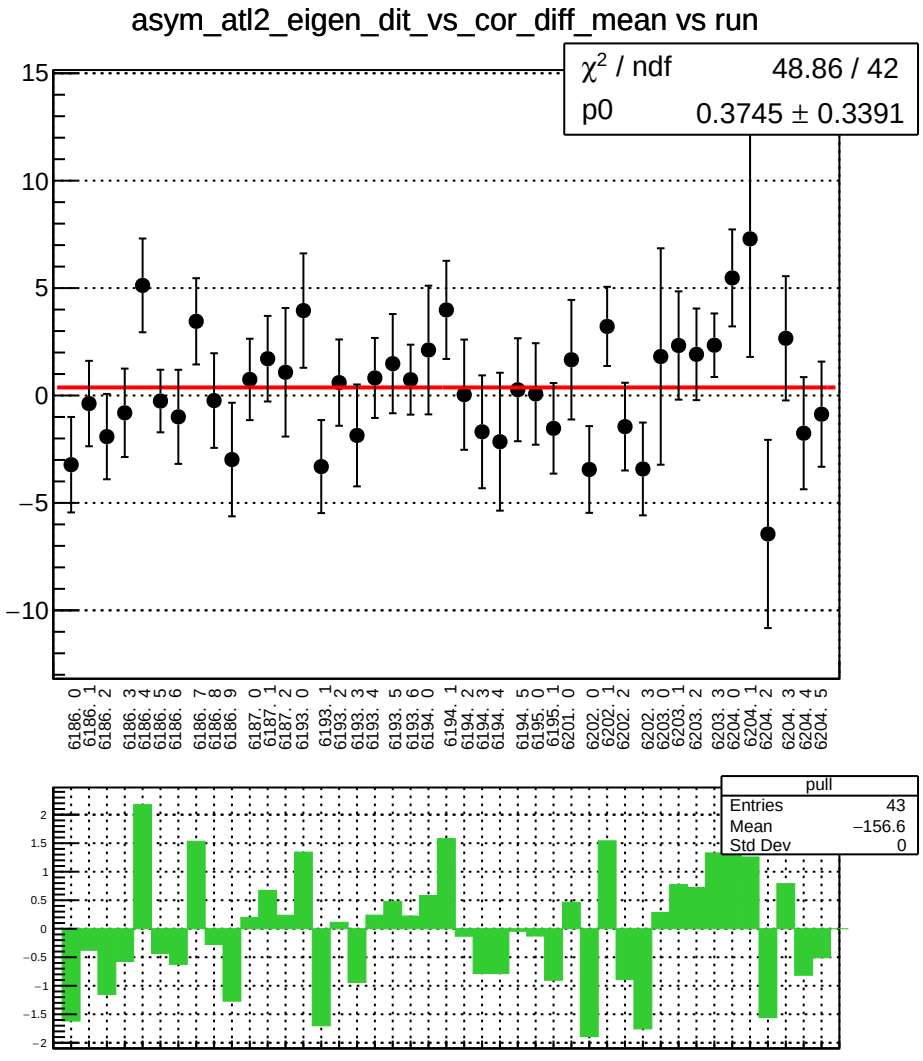
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

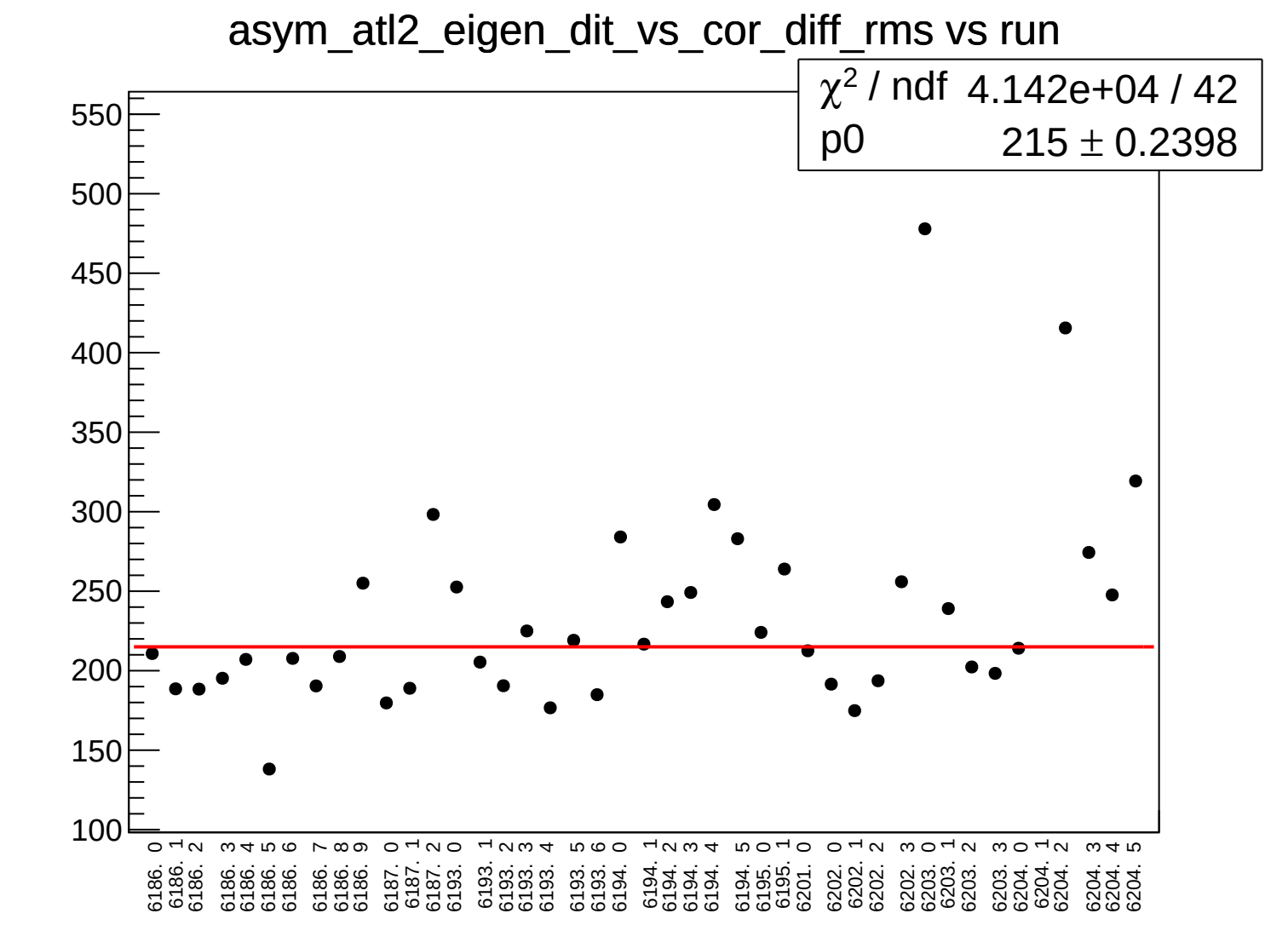

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.86 / 42
p0 0.3745 ± 0.3391
15
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −156.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.008586
Std Dev 1.066
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

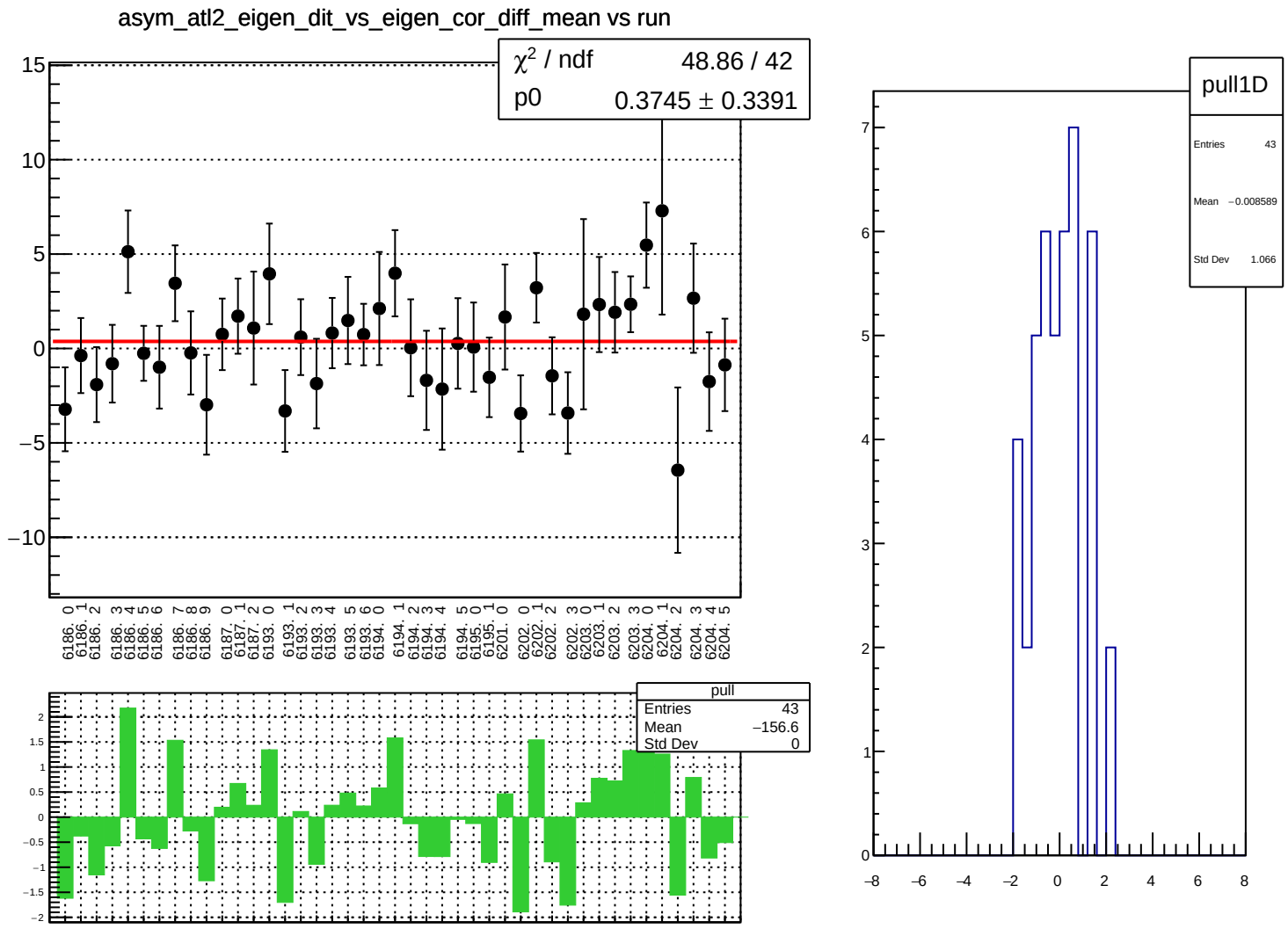

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.142e+04 / 42
p0 215 ± 0.2398
550
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

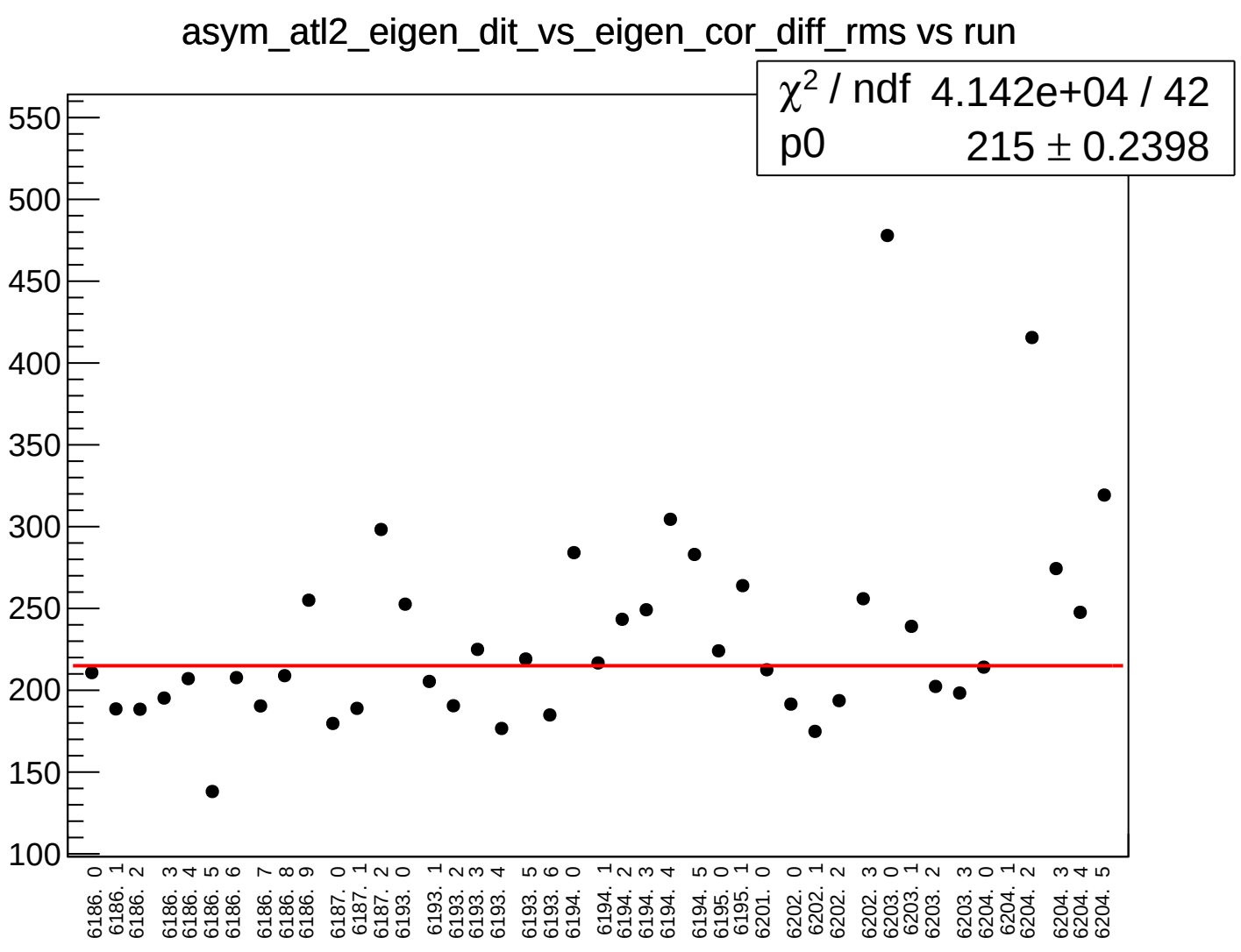

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 46.24 / 42
p0 −1.448e−05 ± 3.23e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1443
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.0008091
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

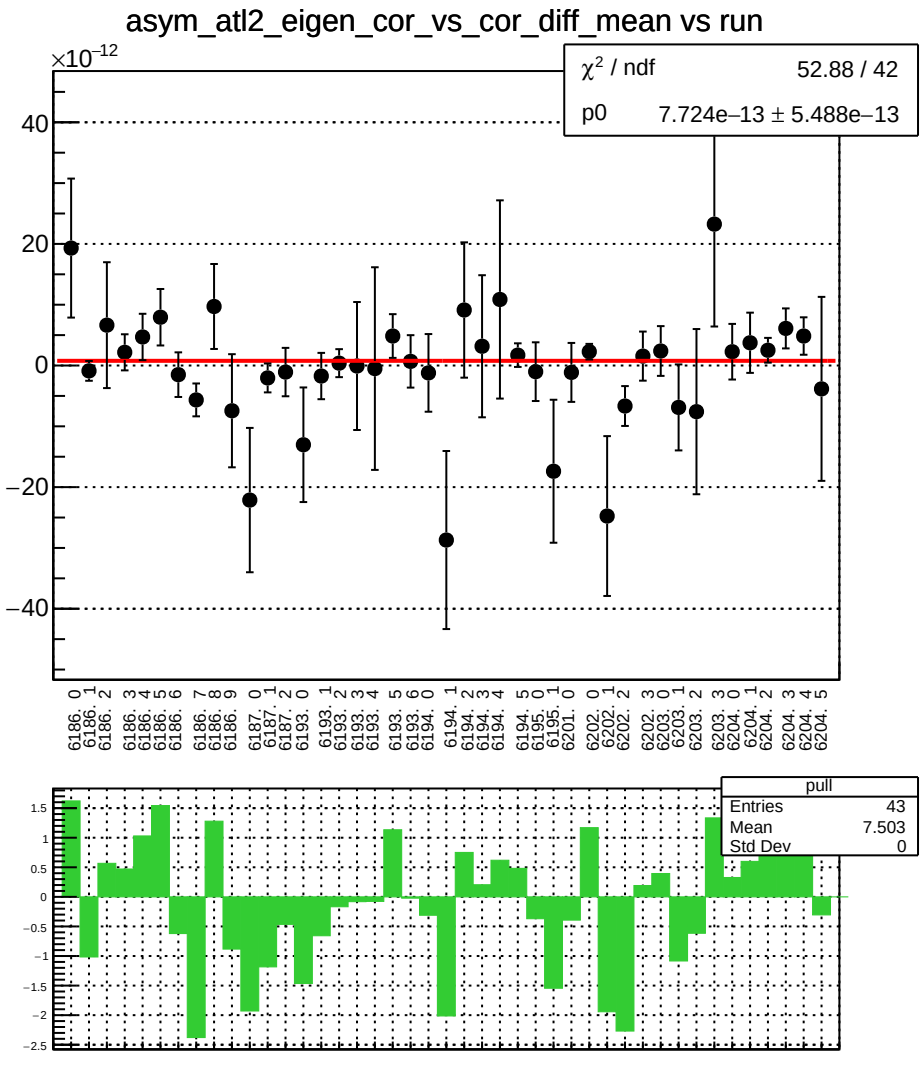

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4200 / 42
p0 0.02095 ± 2.284e−05
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

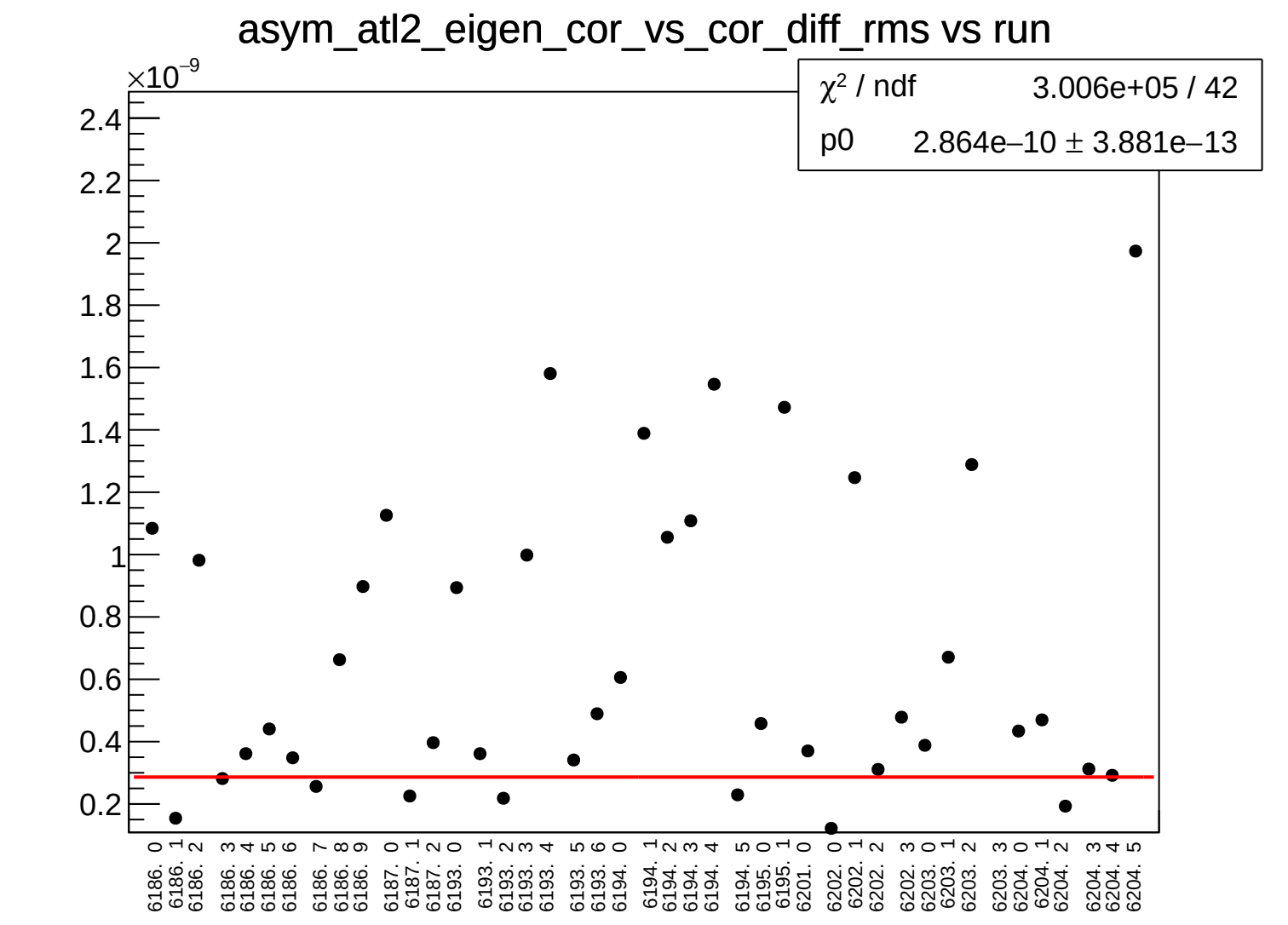

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.86 / 42
p0 0.3745 ± 0.3391
pull
Entries 43
Mean −156.6
Std Dev 0
pull1D
Entries 43
Mean −0.008589
Std Dev 1.066

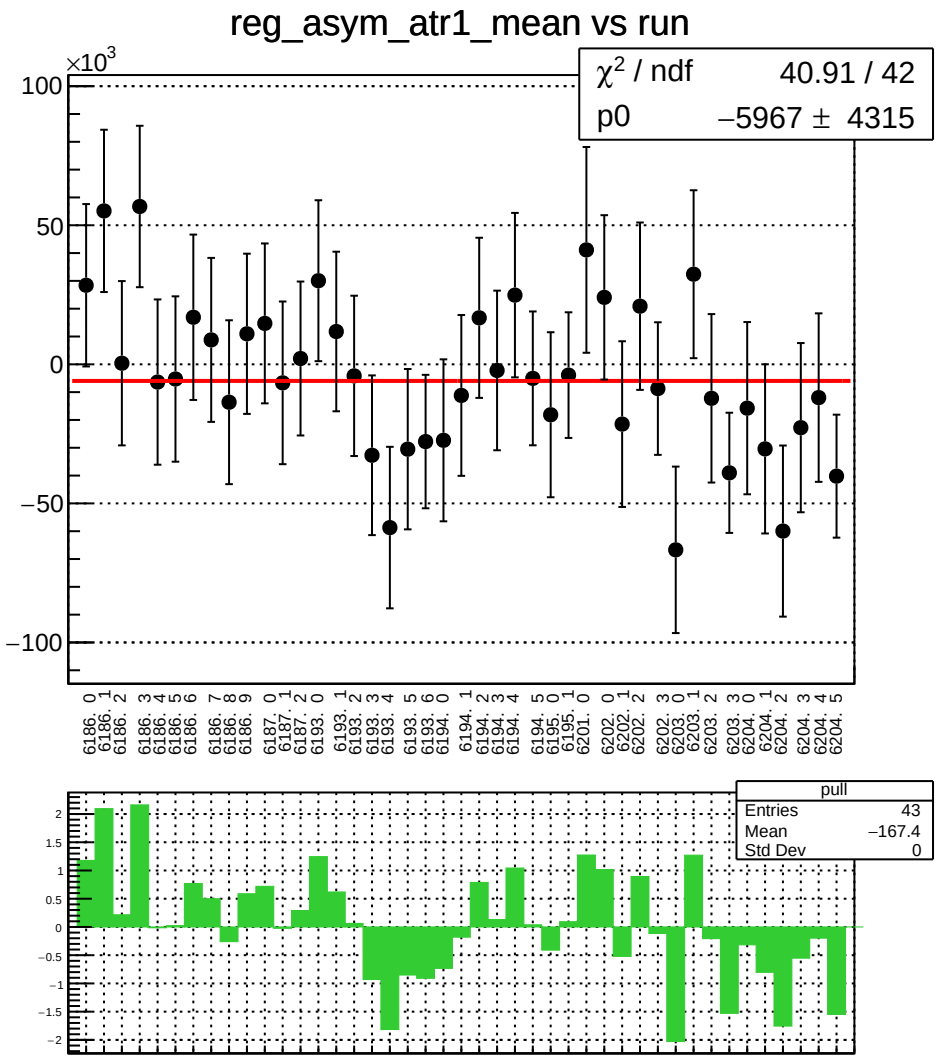

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.142e+04 / 42
p0 215 ± 0.2398
550
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

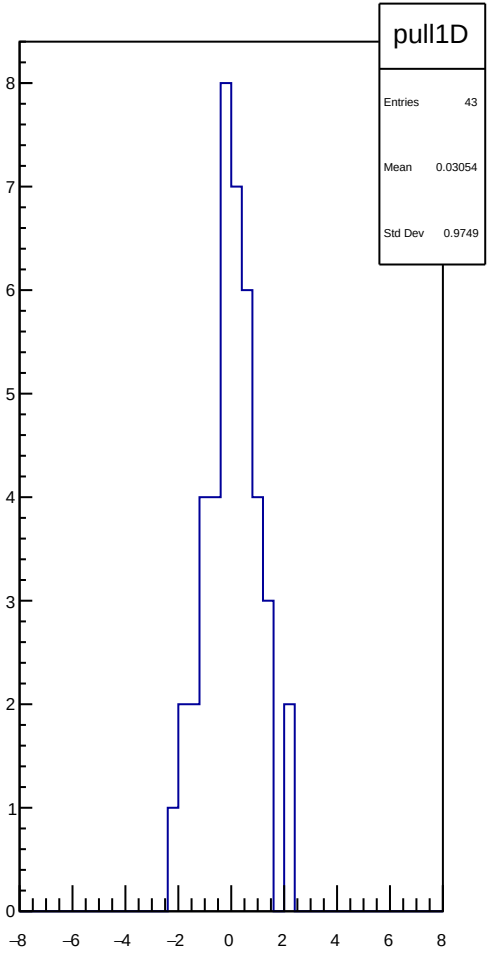

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.86 / 42
p0 0.3745 ± 0.3391
15
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −156.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.008589
Std Dev 1.066
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

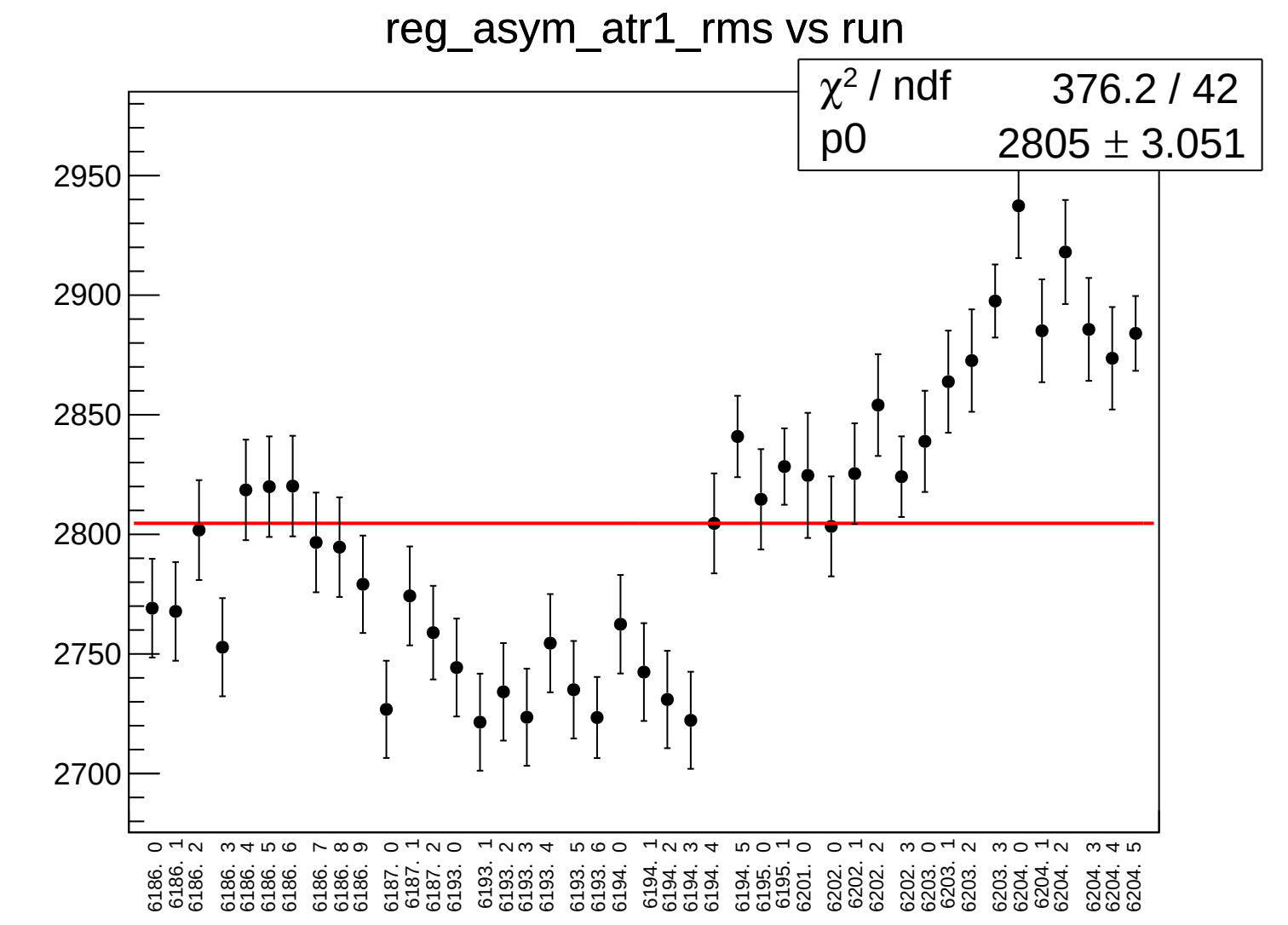

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.142e+04 / 42
p0 215 ± 0.2398
550
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

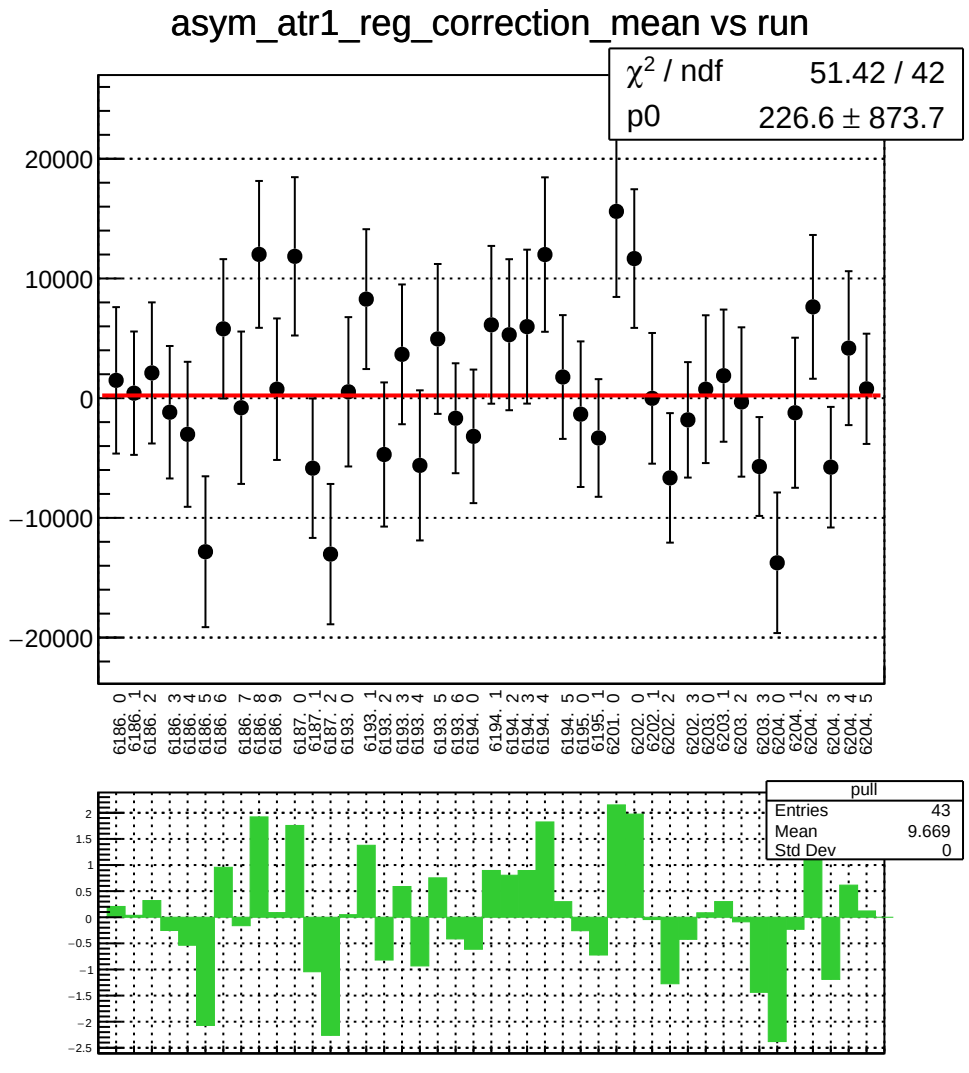

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 52.88 / 42
p0 7.724e−13 ± 5.488e−13
40
20
0
−20
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 7.503
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.09923
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

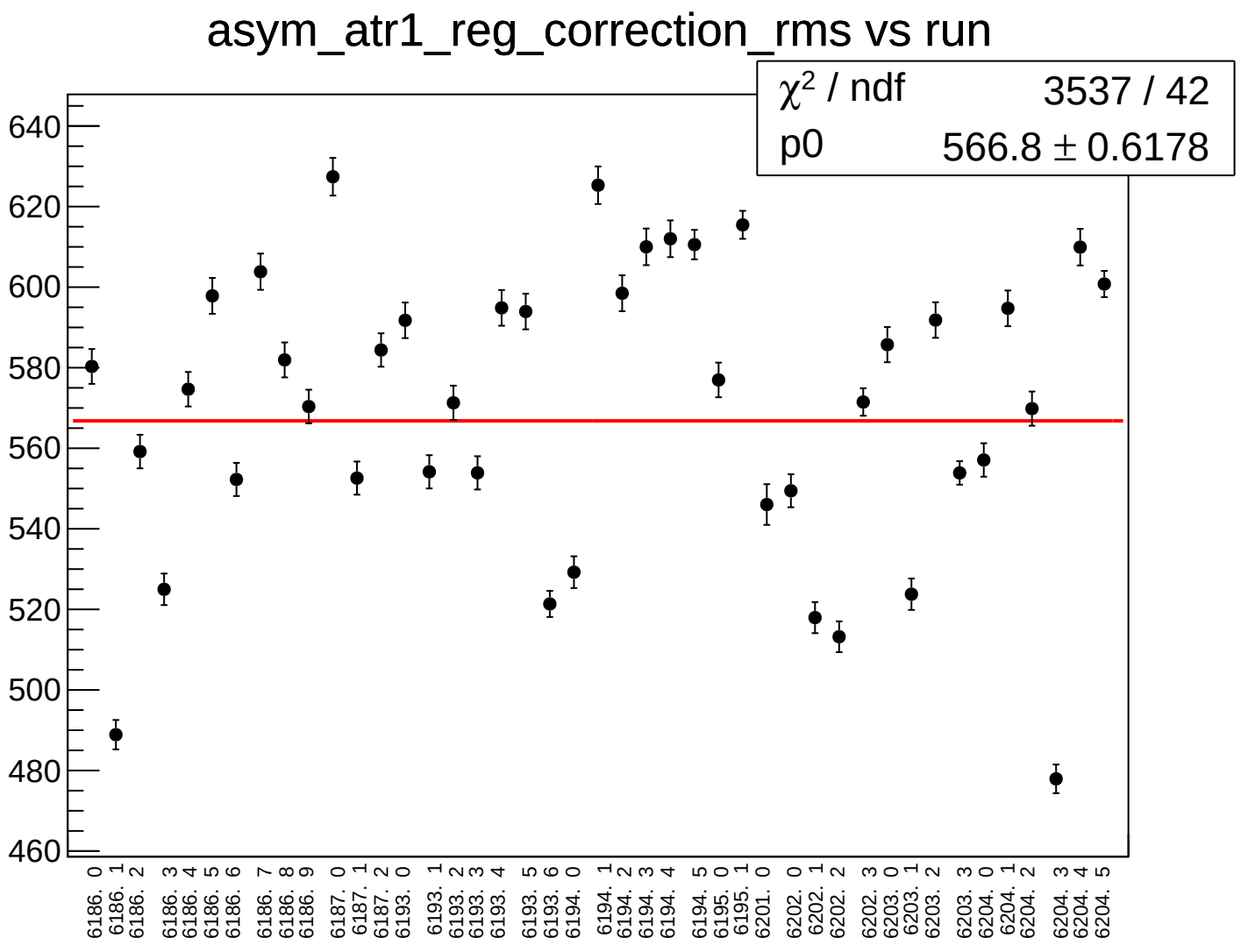

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.006e+05 / 42
p0 2.864e−10 ± 3.881e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

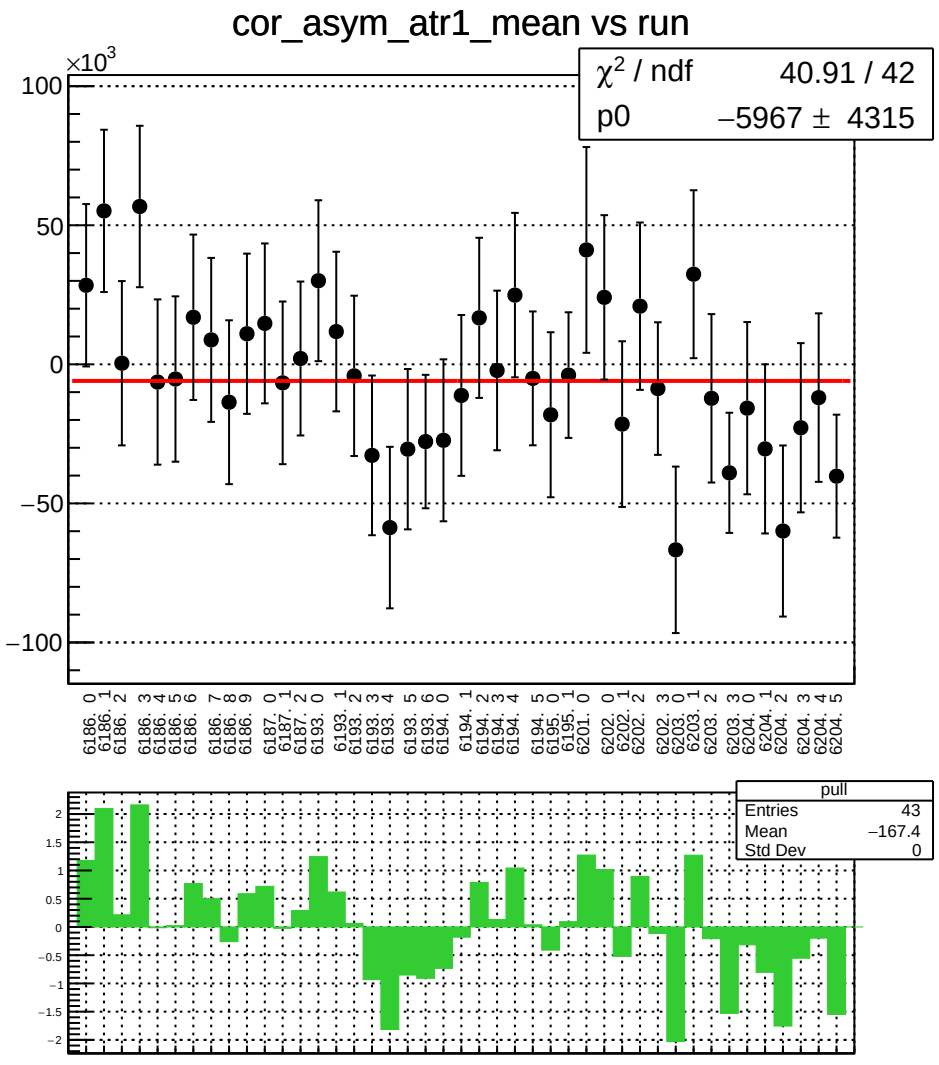

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 40.91 / 42
p0 −5967 ± 4315
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −167.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

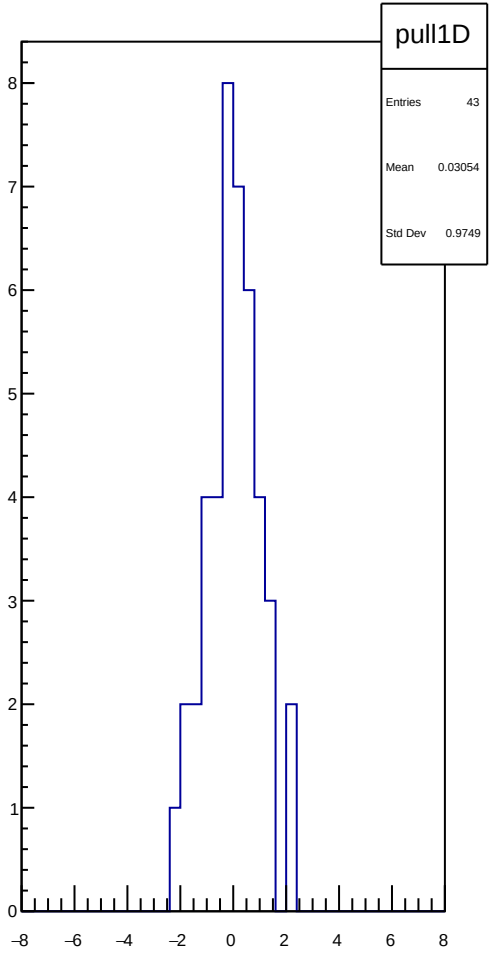

pull1D
Entries 43
Mean 0.03054
Std Dev 0.9749
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

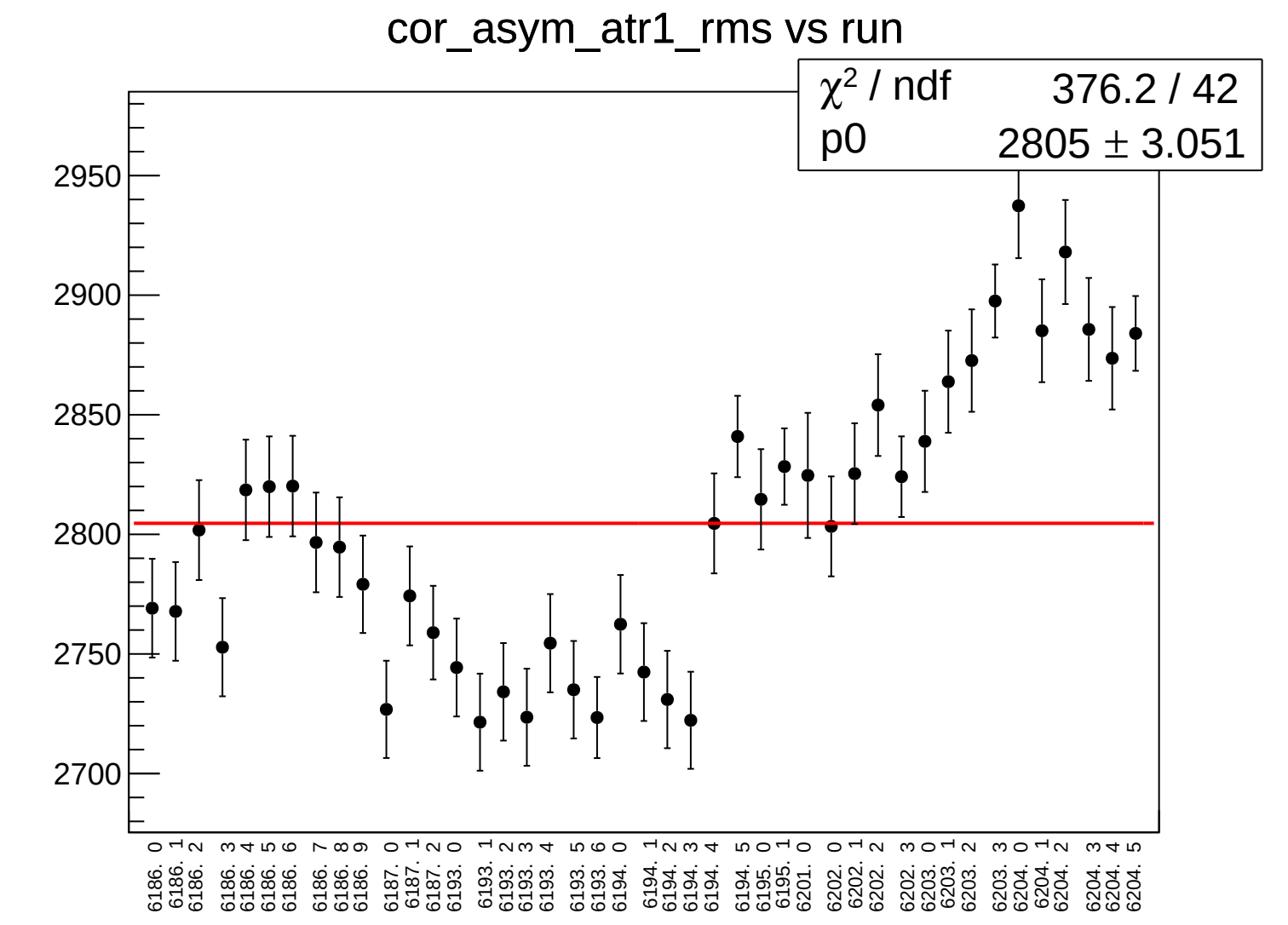

reg_asym_atr1_rms vs run
χ² / ndf 376.2 / 42
p0 2805 ± 3.051
2950
2900
2850
2800
2750
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr1_reg_correction_mean vs run
χ² / ndf 51.42 / 42
p0 226.6 ± 873.7
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 9.669
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.04894
Std Dev 1.092
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_reg_correction_rms vs run
χ² / ndf 3537 / 42
p0 566.8 ± 0.6178
640
620
600
580
560
540
520
500
480
460
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_atr1_mean vs run
×10^3
χ² / ndf 40.91 / 42
p0 −5967 ± 4315
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −167.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean 0.03054
Std Dev 0.9749
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr1_rms vs run
χ² / ndf 376.2 / 42
p0 2805 ± 3.051
2950
2900
2850
2800
2750
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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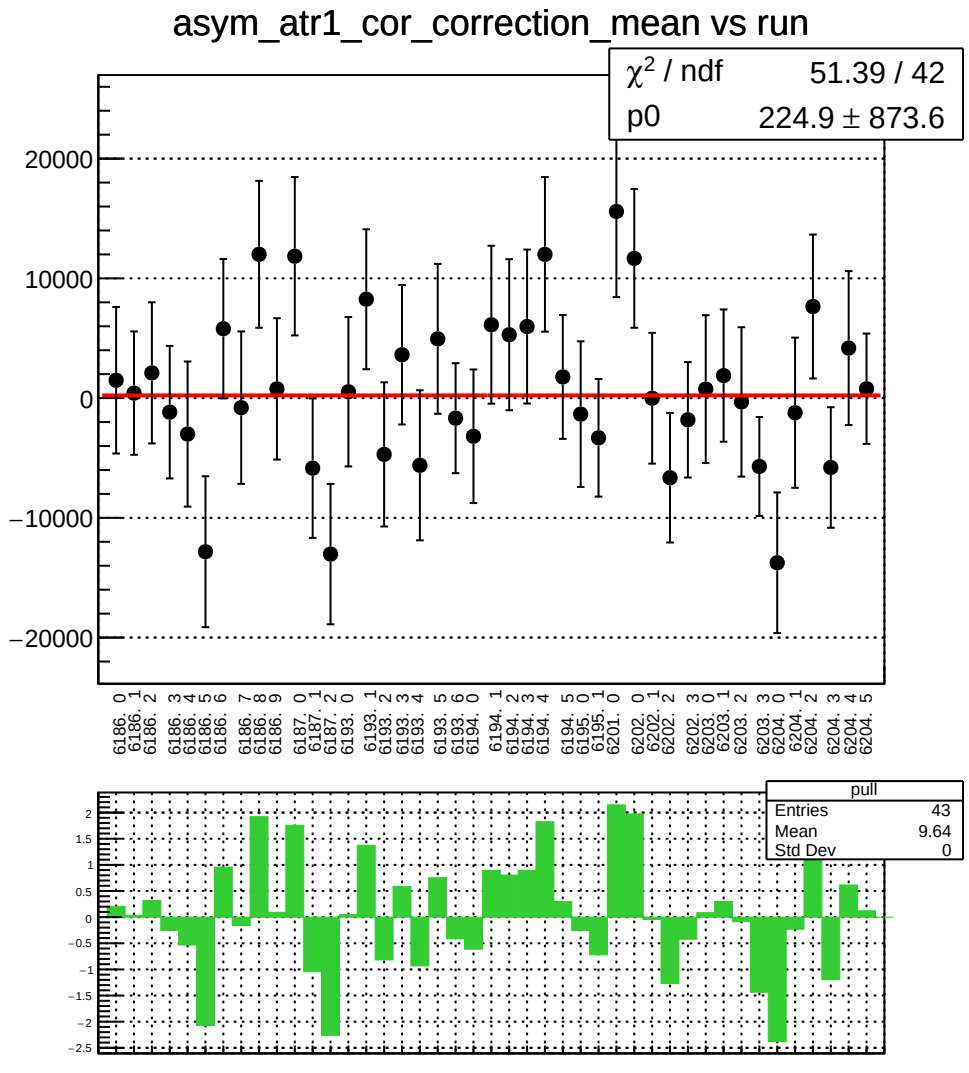
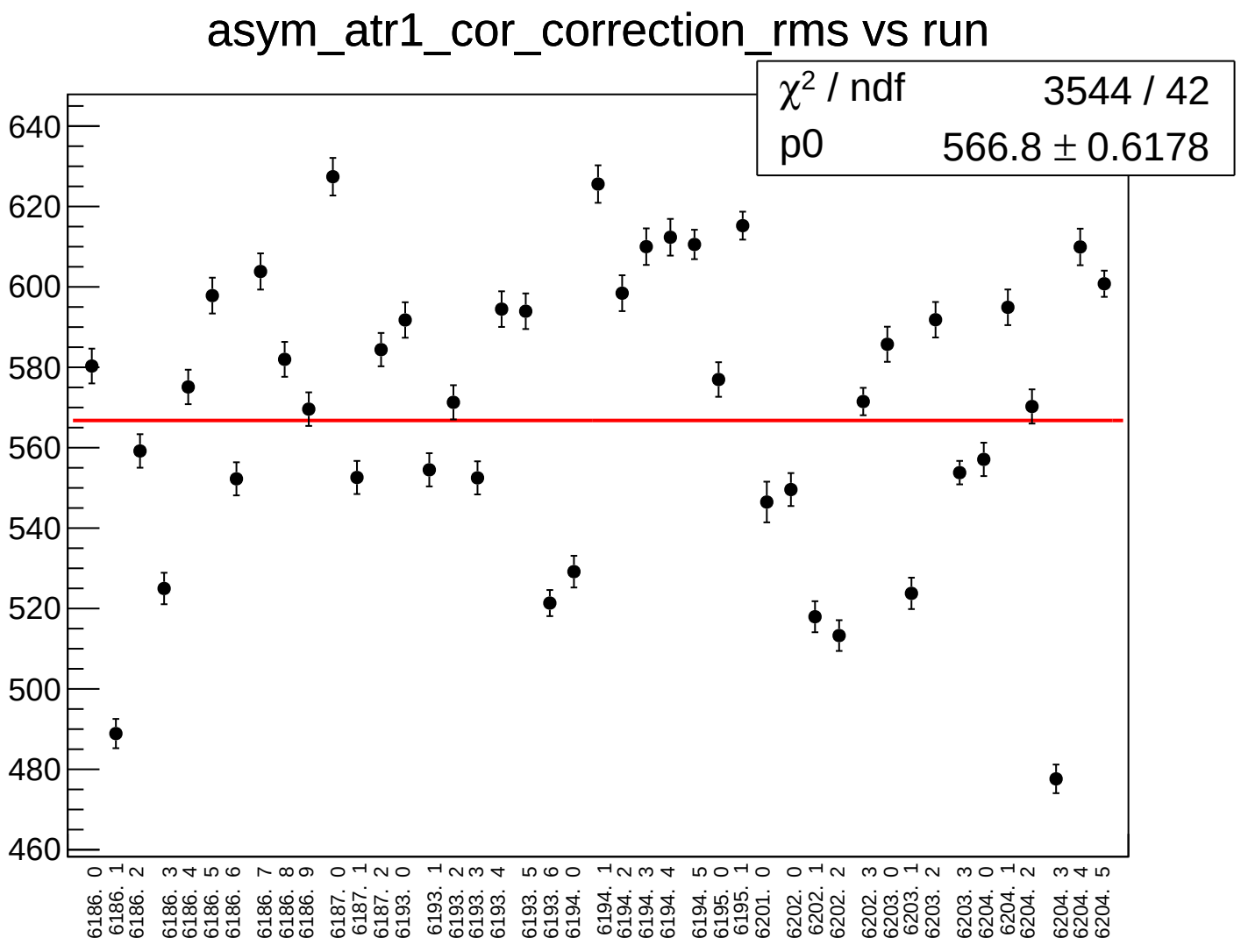
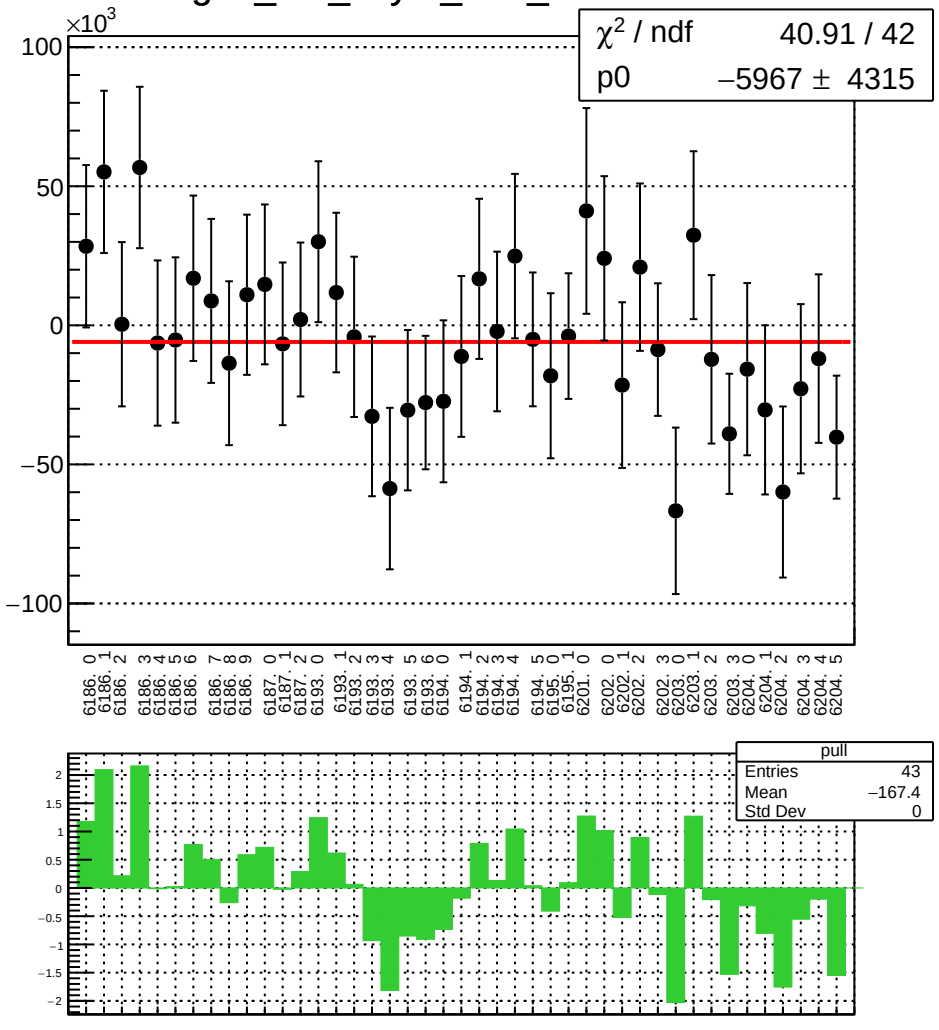
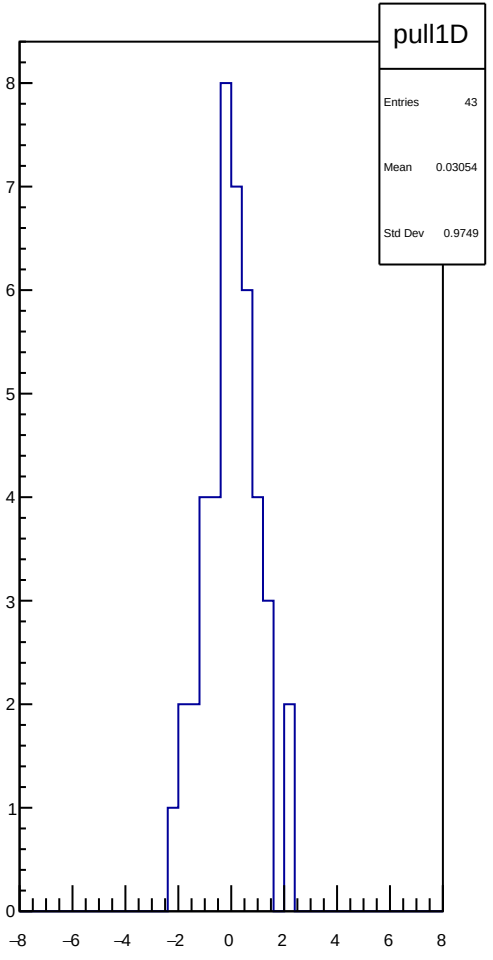
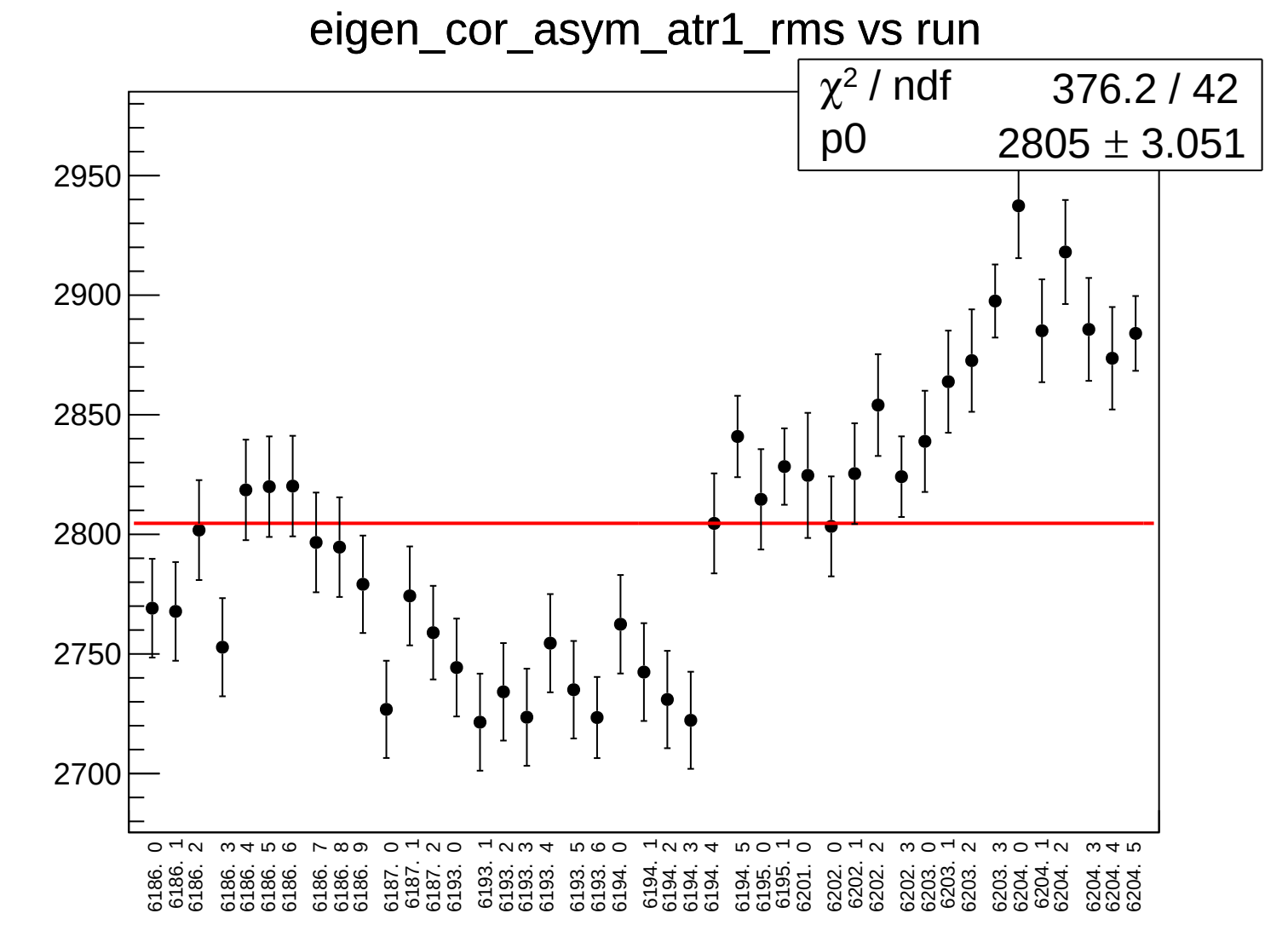
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

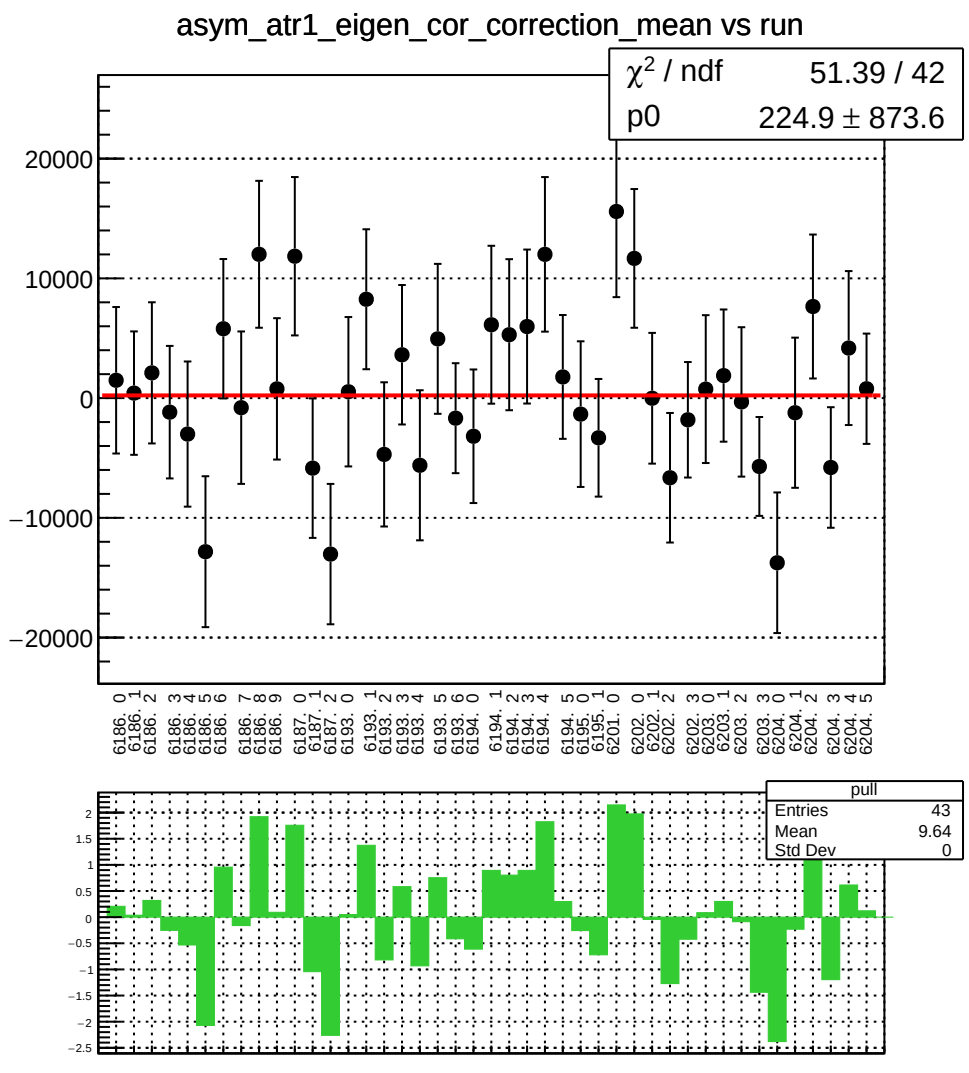

asym_atr1_cor_correction_mean vs run
χ² / ndf 51.39 / 42
p0 224.9 ± 873.6
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 9.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.04904
Std Dev 1.092
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_cor_correction_rms vs run
χ² / ndf 3544 / 42
p0 566.8 ± 0.6178
640
620
600
580
560
540
520
500
480
460
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 40.91 / 42
p0 −5967 ± 4315
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −167.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean 0.03054
Std Dev 0.9749
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr1_rms vs run
χ² / ndf 376.2 / 42
p0 2805 ± 3.051
2950
2900
2850
2800
2750
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 51.39 / 42
p0 224.9 ± 873.6
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
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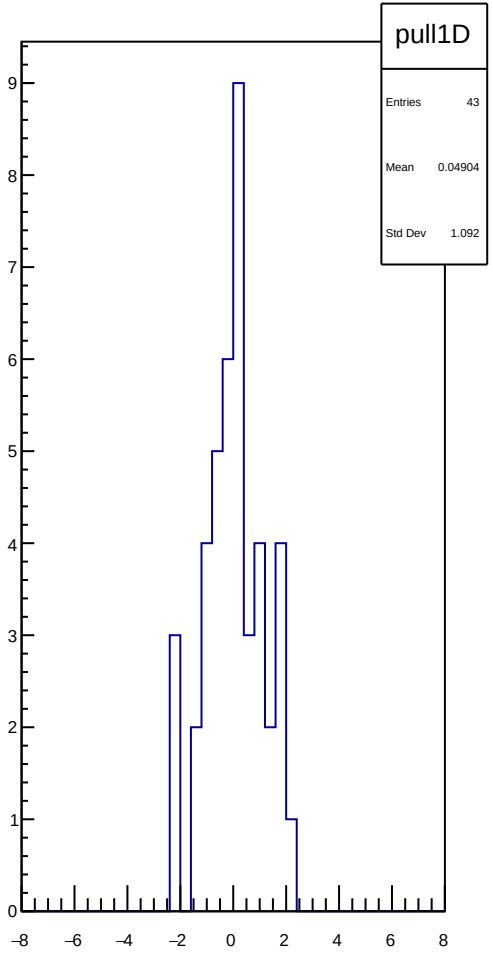
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 9.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 43
Mean 0.04904
Std Dev 1.092
9
8
7
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5
4
3
2
1
0
−8
−6
−4
−2
0
2
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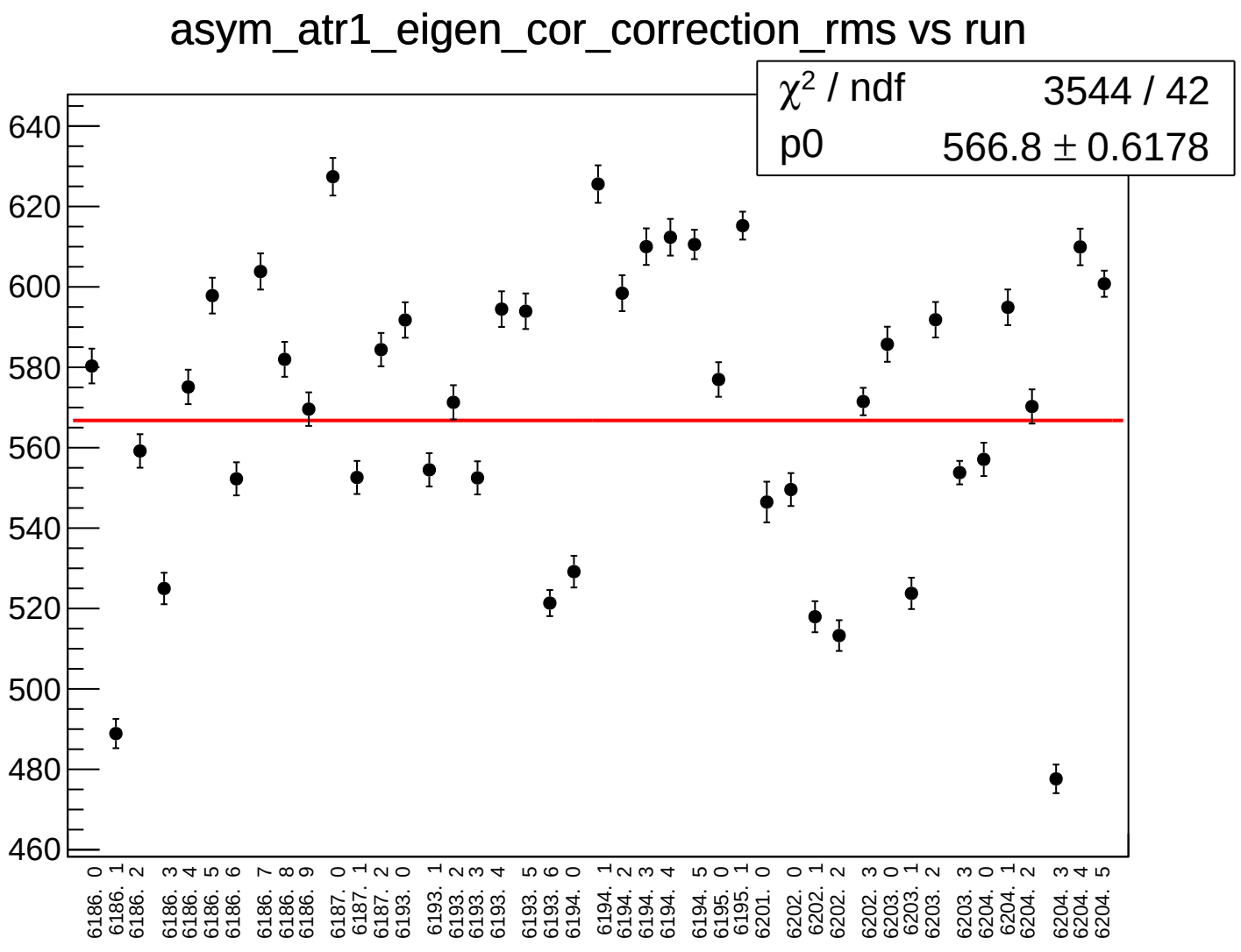
6
8


asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 3544 / 42
p0 566.8 ± 0.6178
640
620
600
580
560
540
520
500
480
460
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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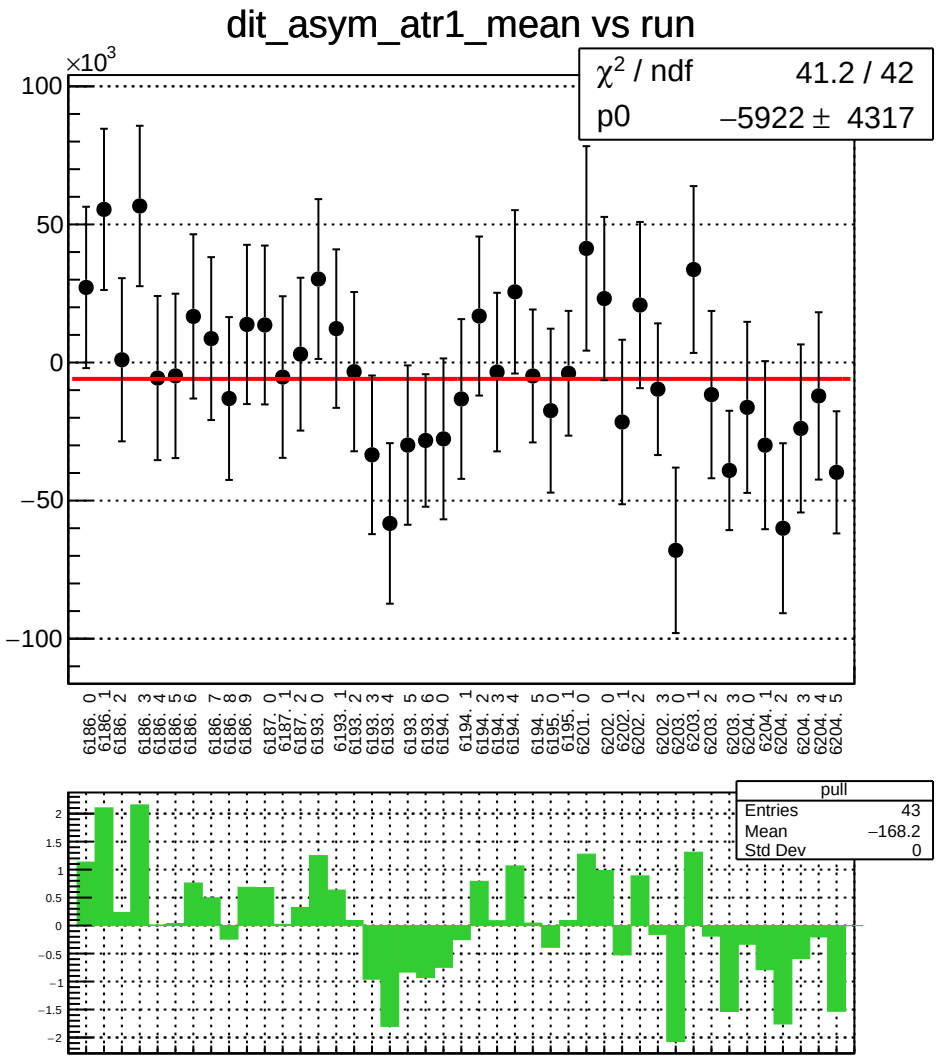
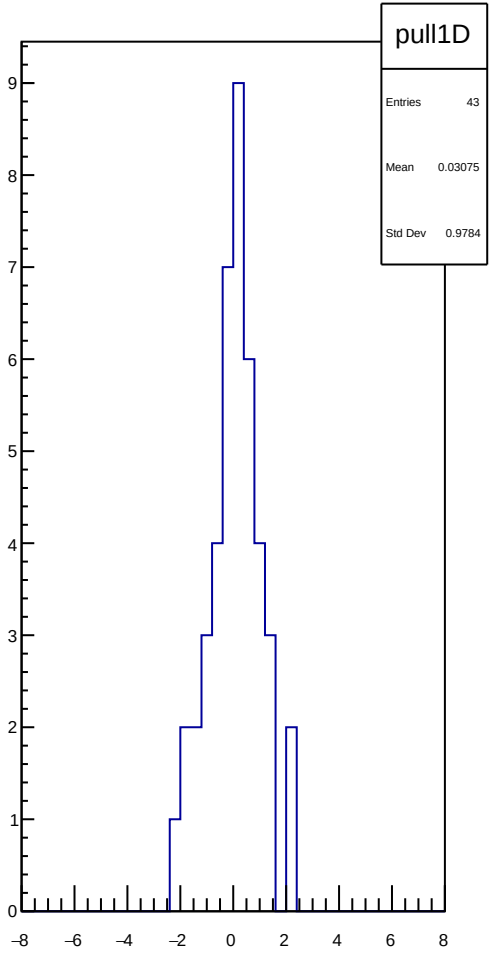
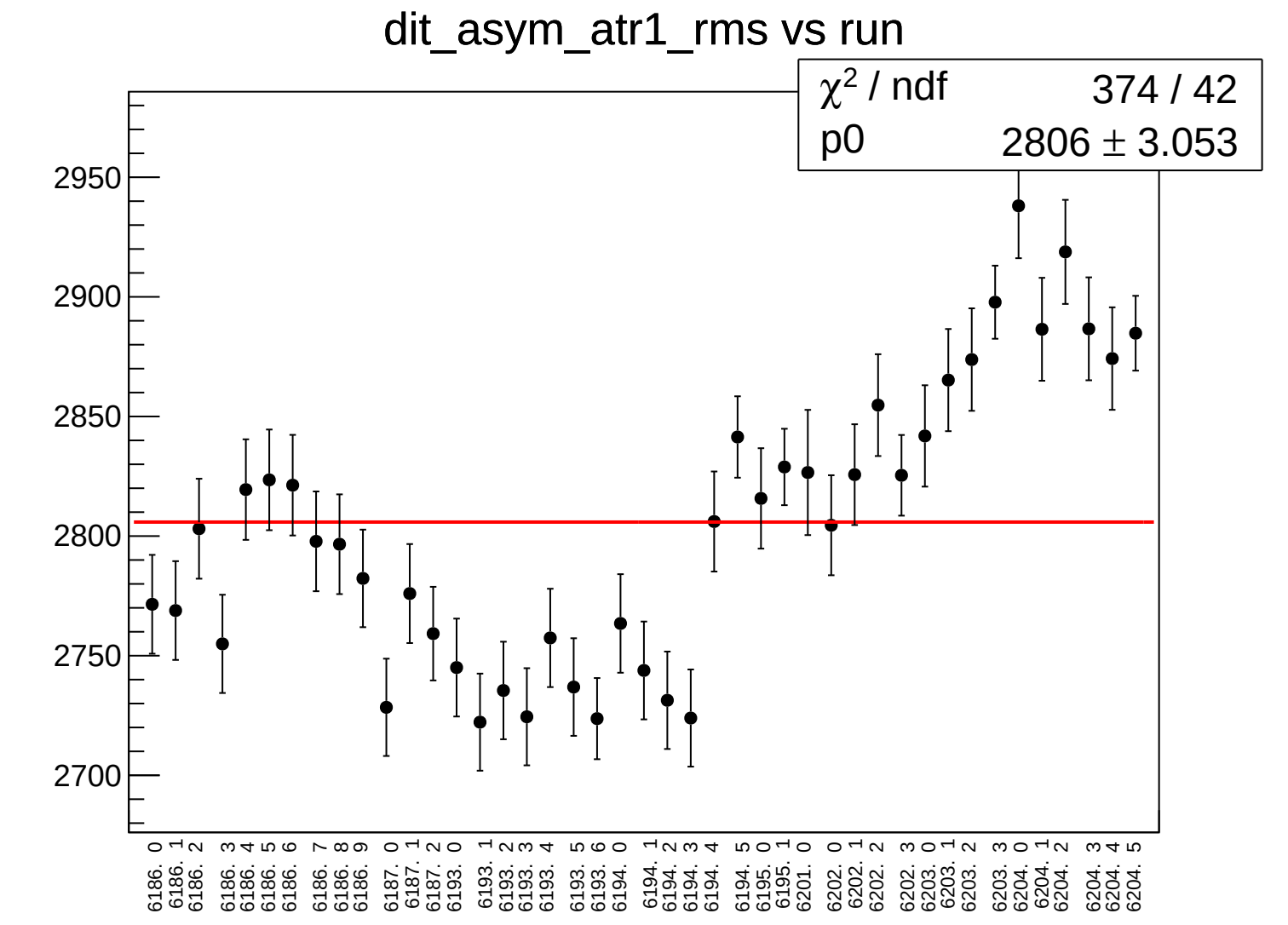
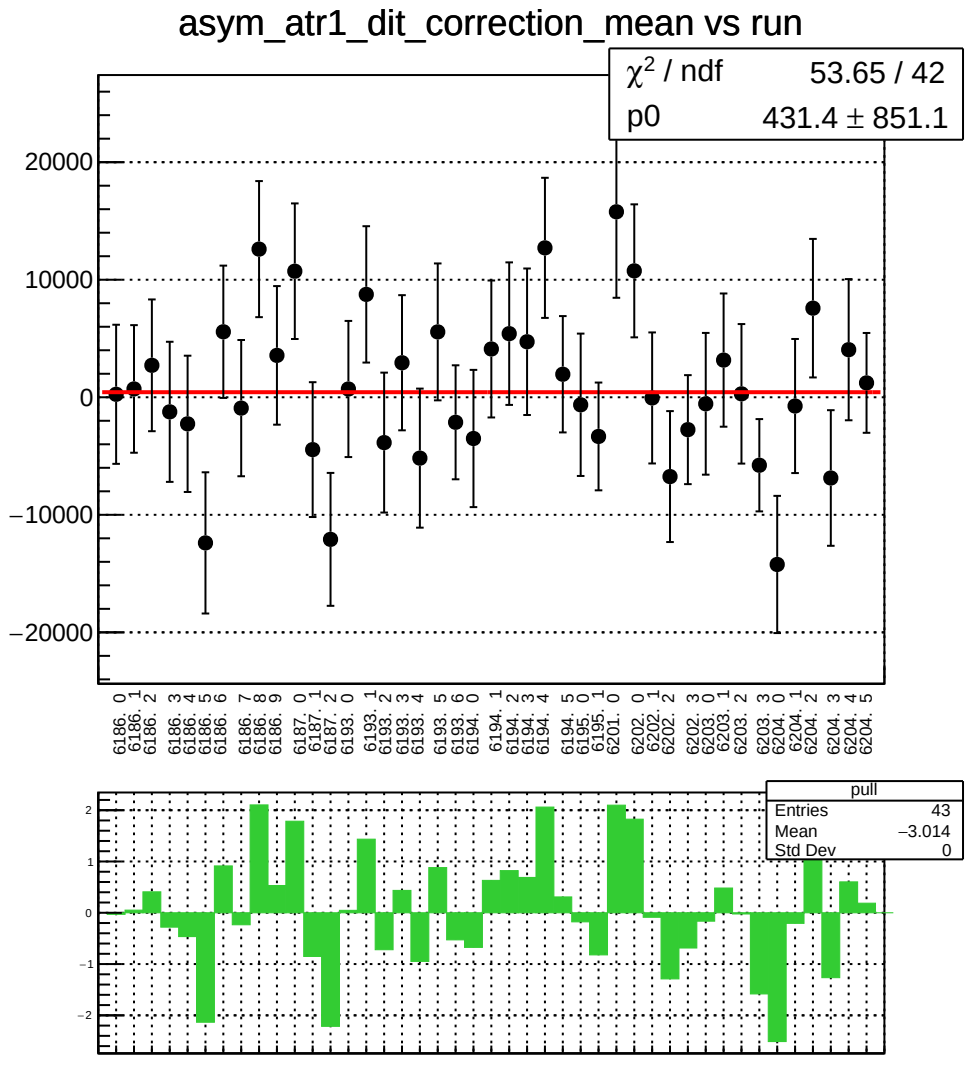
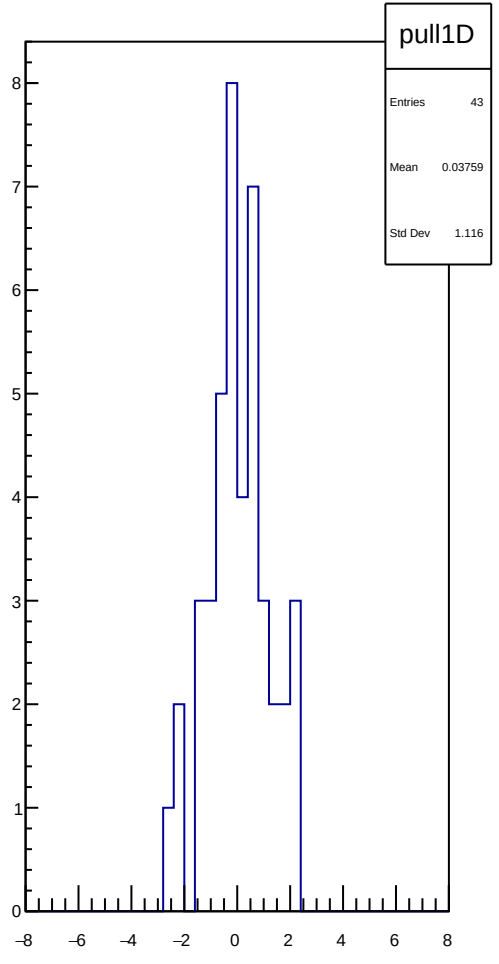
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_atr1_mean vs run
×10^3
χ² / ndf 41.2 / 42
p0 −5922 ± 4317
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −168.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean 0.03075
Std Dev 0.9784
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atr1_rms vs run
χ² / ndf 374 / 42
p0 2806 ± 3.053
2950
2900
2850
2800
2750
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr1_dit_correction_mean vs run
χ² / ndf 53.65 / 42
p0 431.4 ± 851.1
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3.014
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.03759
Std Dev 1.116
8
7
6
5
4
3
2
1
0
−8
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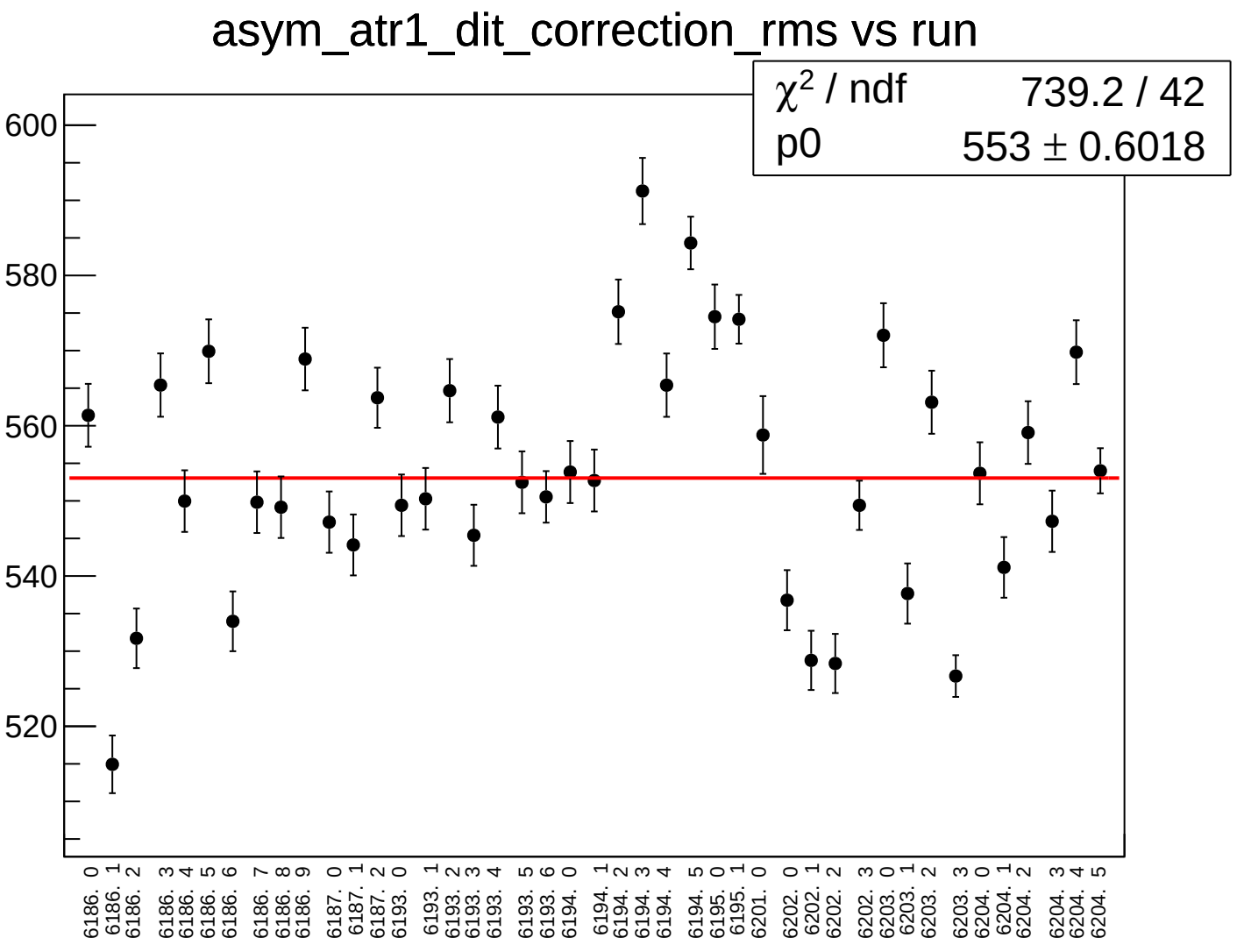
−4
−2
0
2
4
6
8


asym_atr1_dit_correction_rms vs run
χ^2 / ndf 739.2 / 42
p0 553 ± 0.6018
600
580
560
540
520
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
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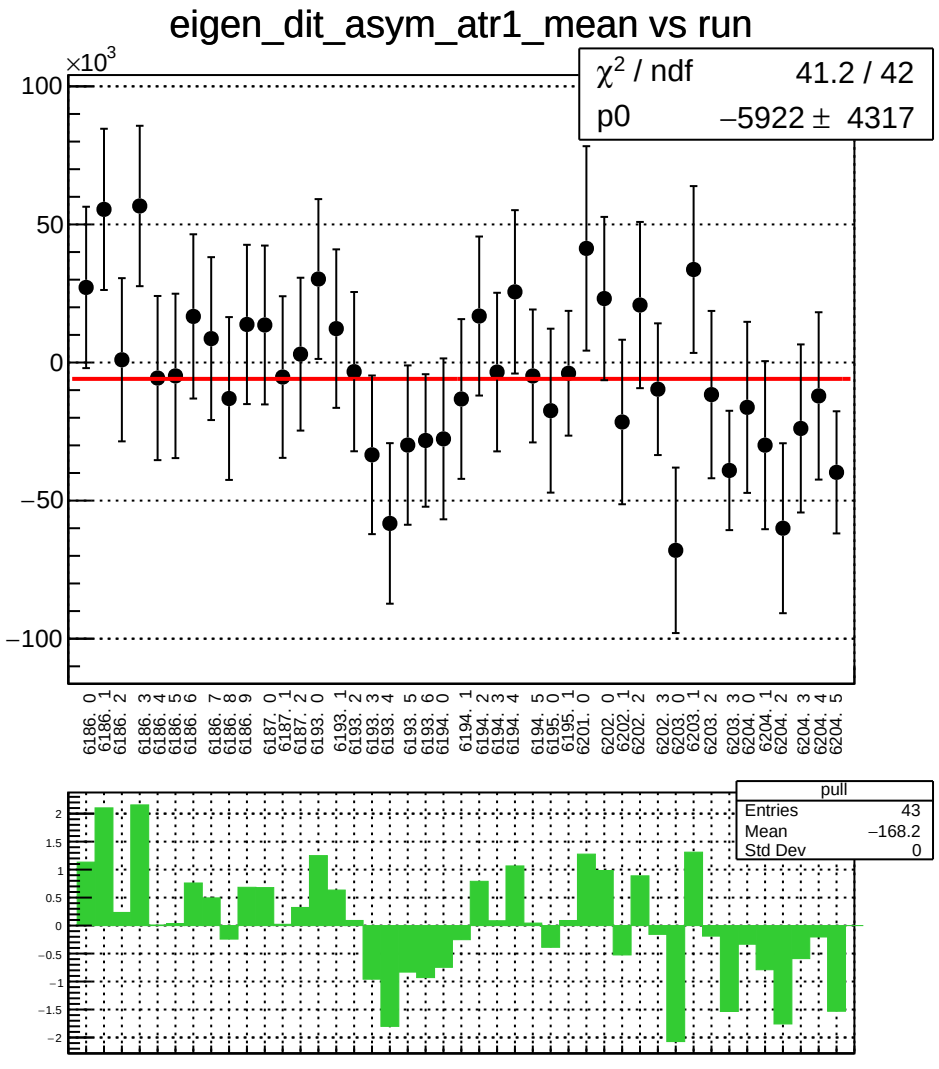
6204. 4
6204. 5


eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 41.2 / 42
p0 −5922 ± 4317
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
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6194. 0
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6194. 2
6194. 3
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6201. 0
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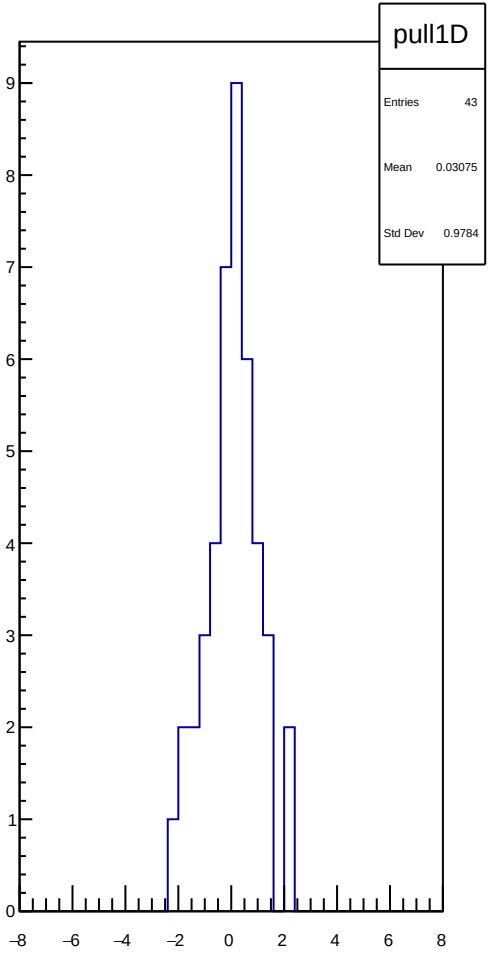
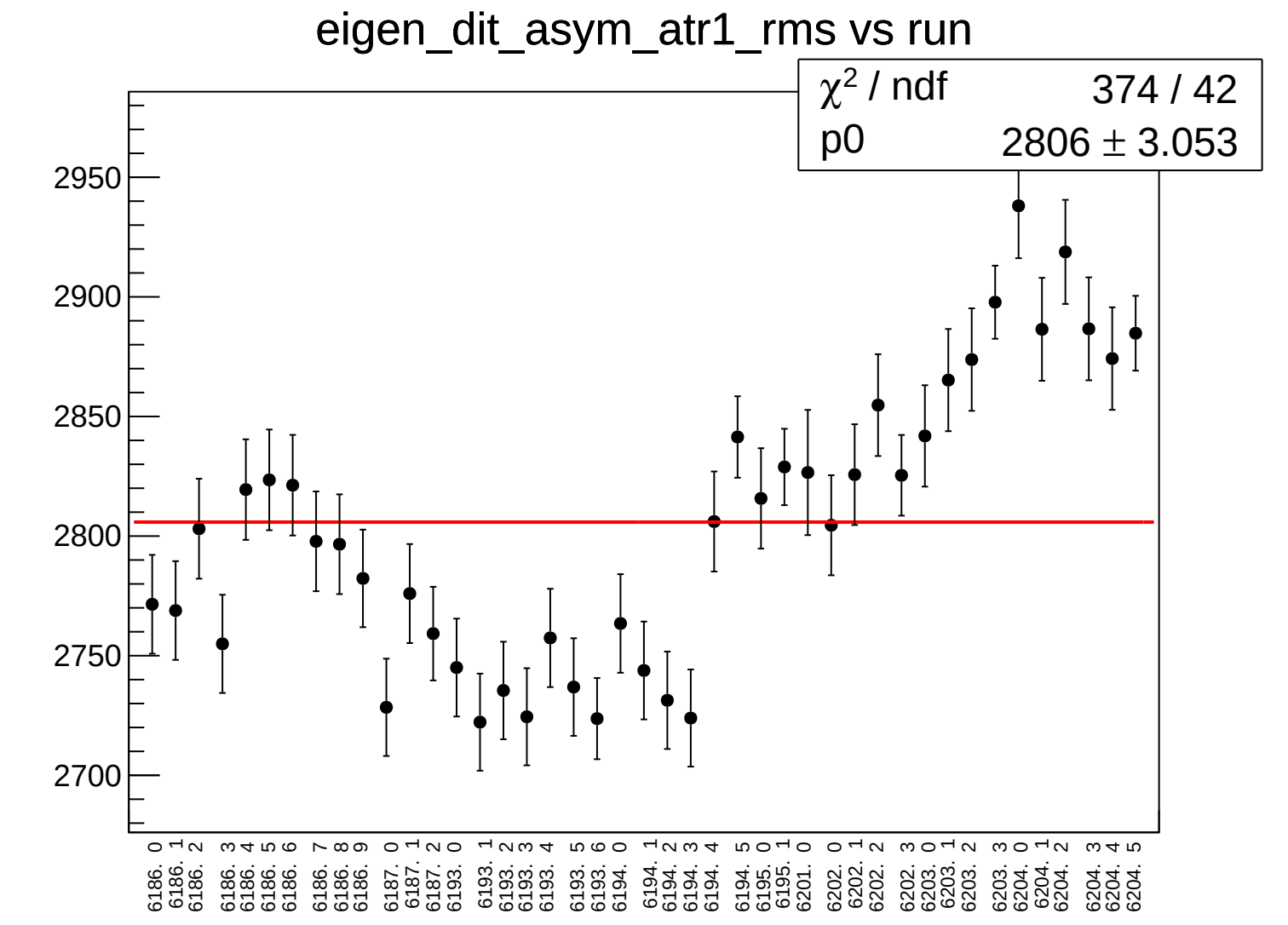
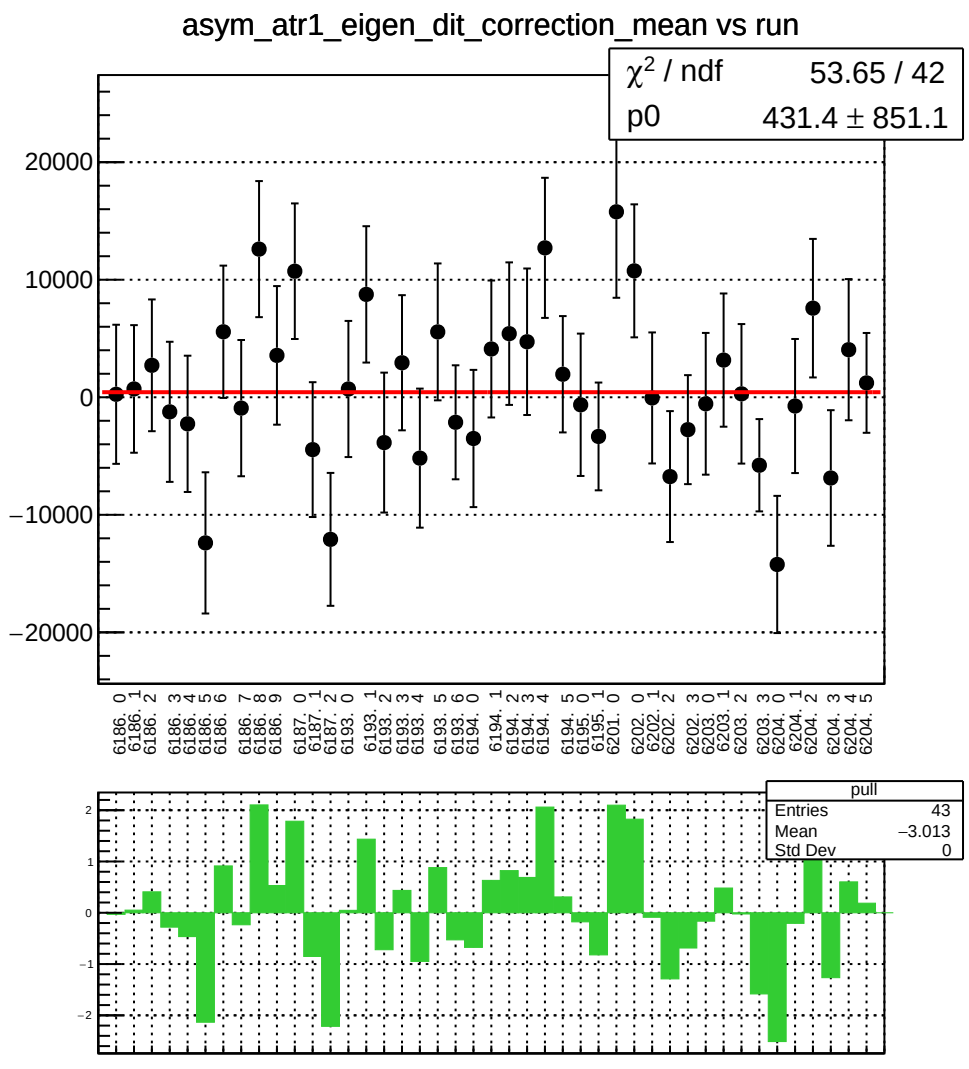
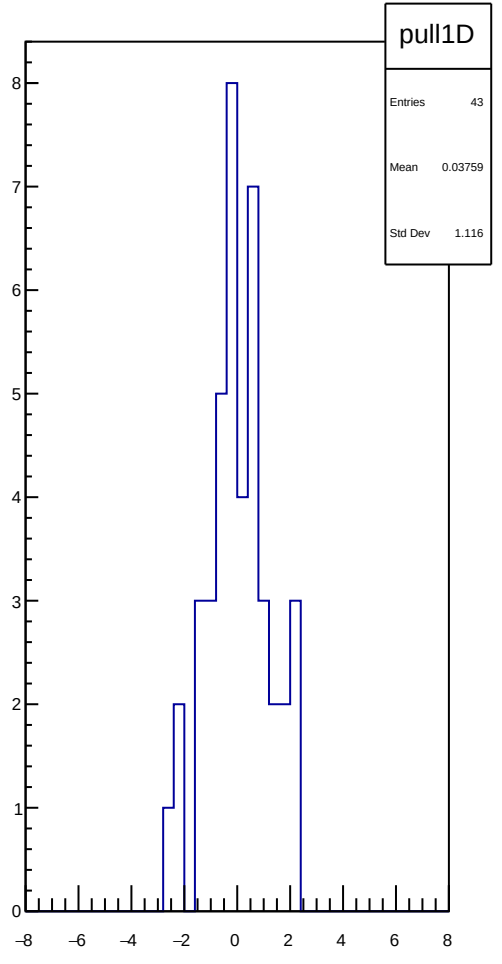
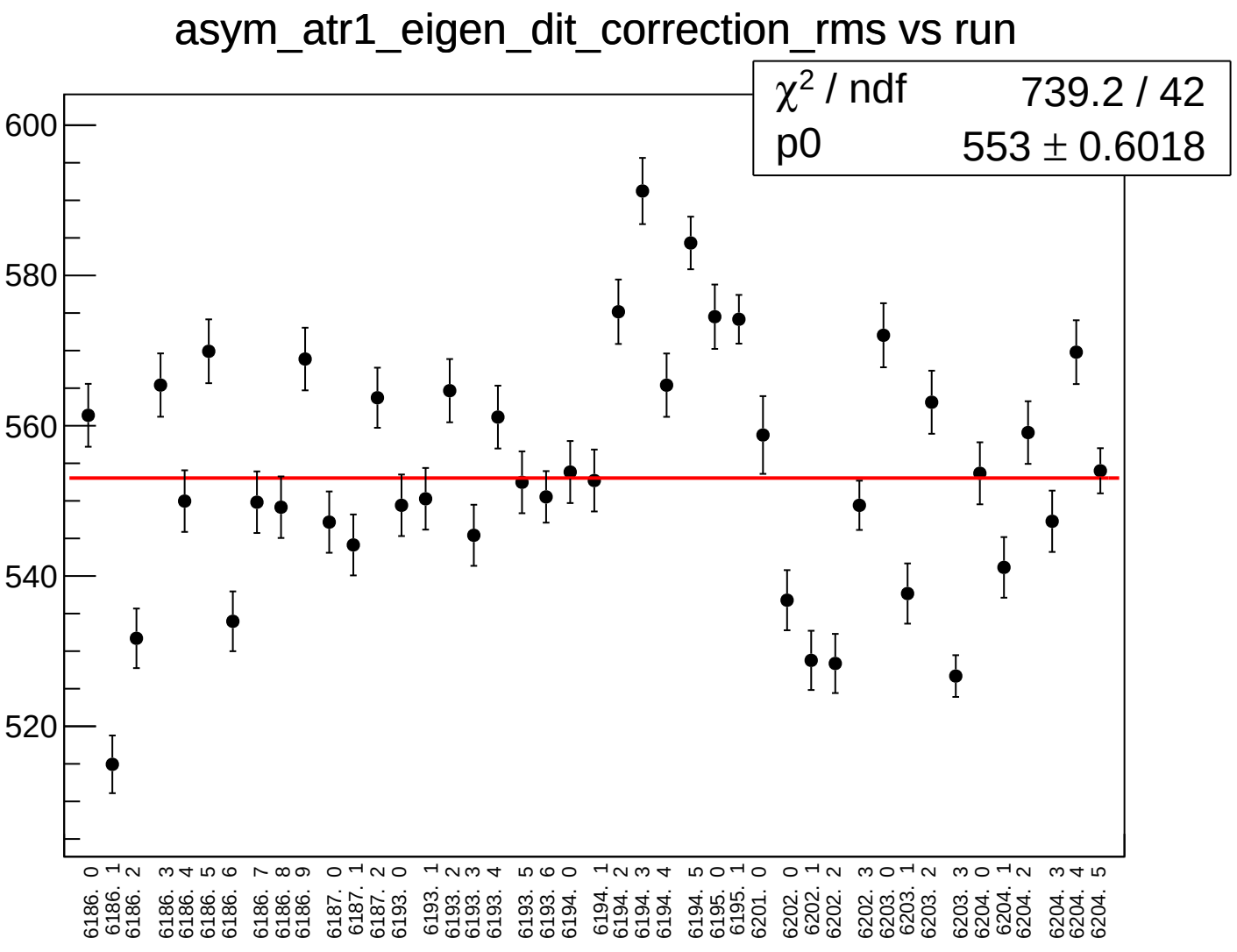
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −168.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

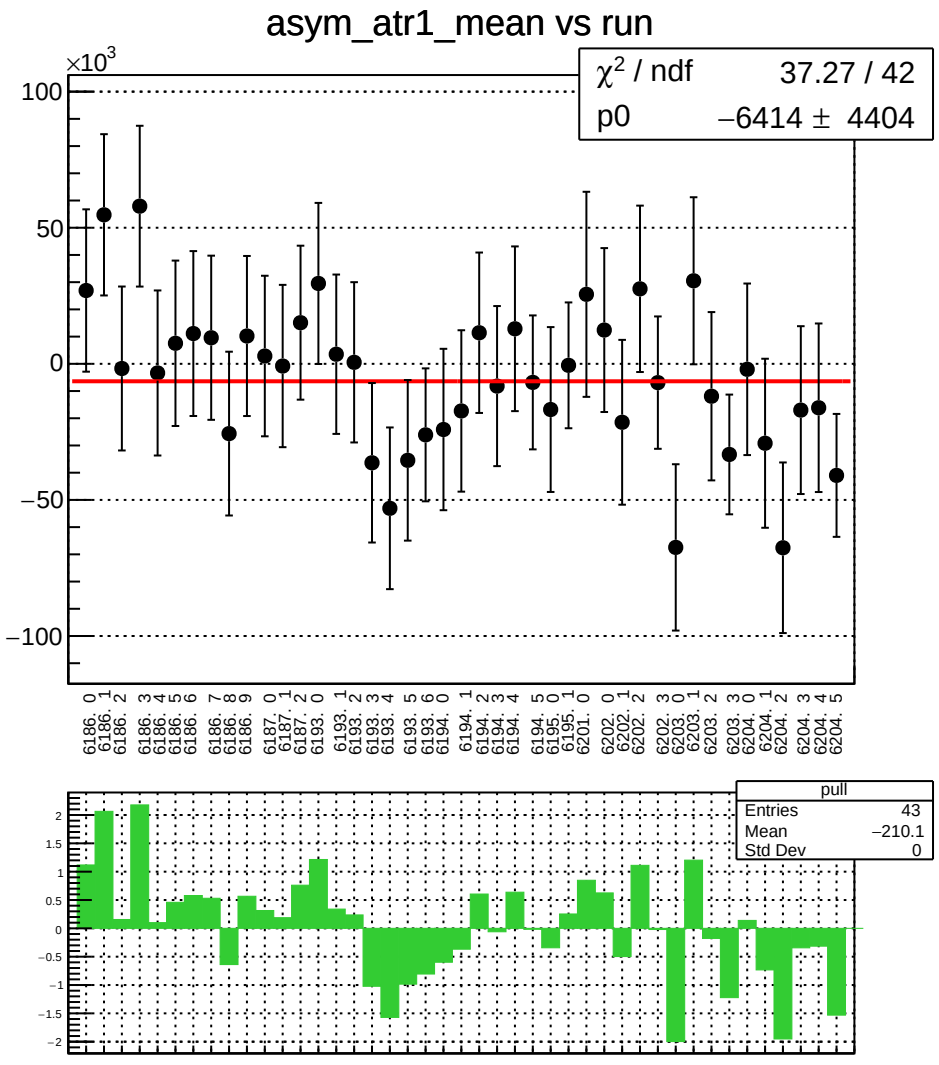

pull1D
Entries 43
Mean 0.03075
Std Dev 0.9784
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

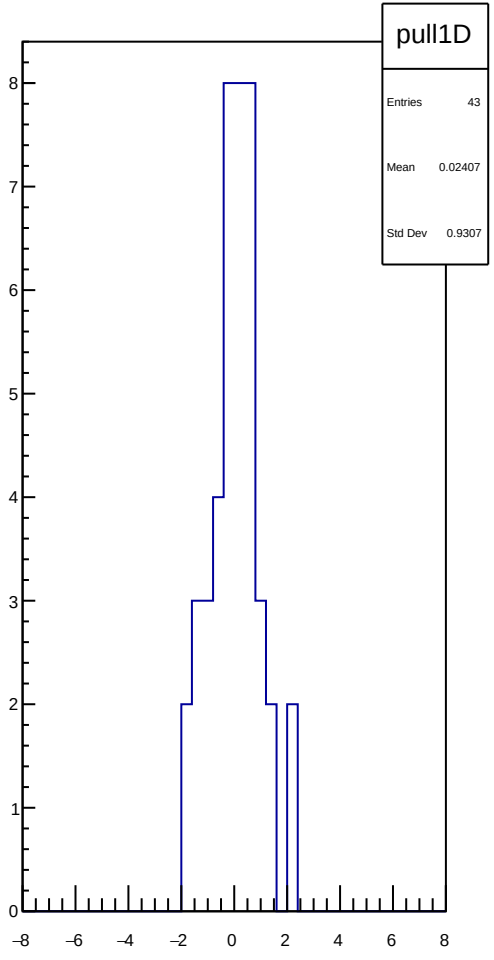

eigen_dit_asym_atr1_rms vs run
χ² / ndf 374 / 42
p0 2806 ± 3.053
2950
2900
2850
2800
2750
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

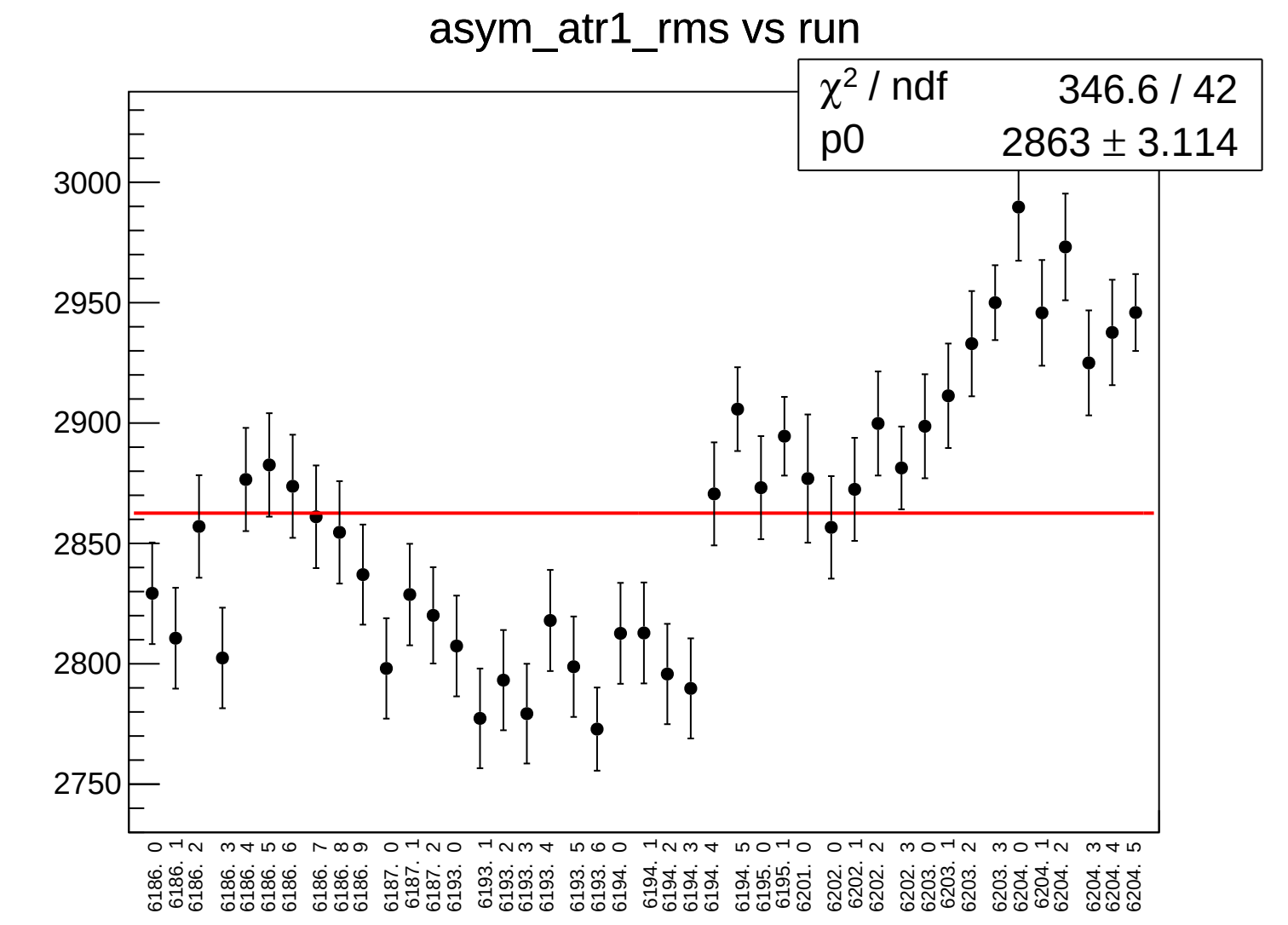

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 53.65 / 42
p0 431.4 ± 851.1
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3.013
Std Dev 0
2
1
0
−1
−2

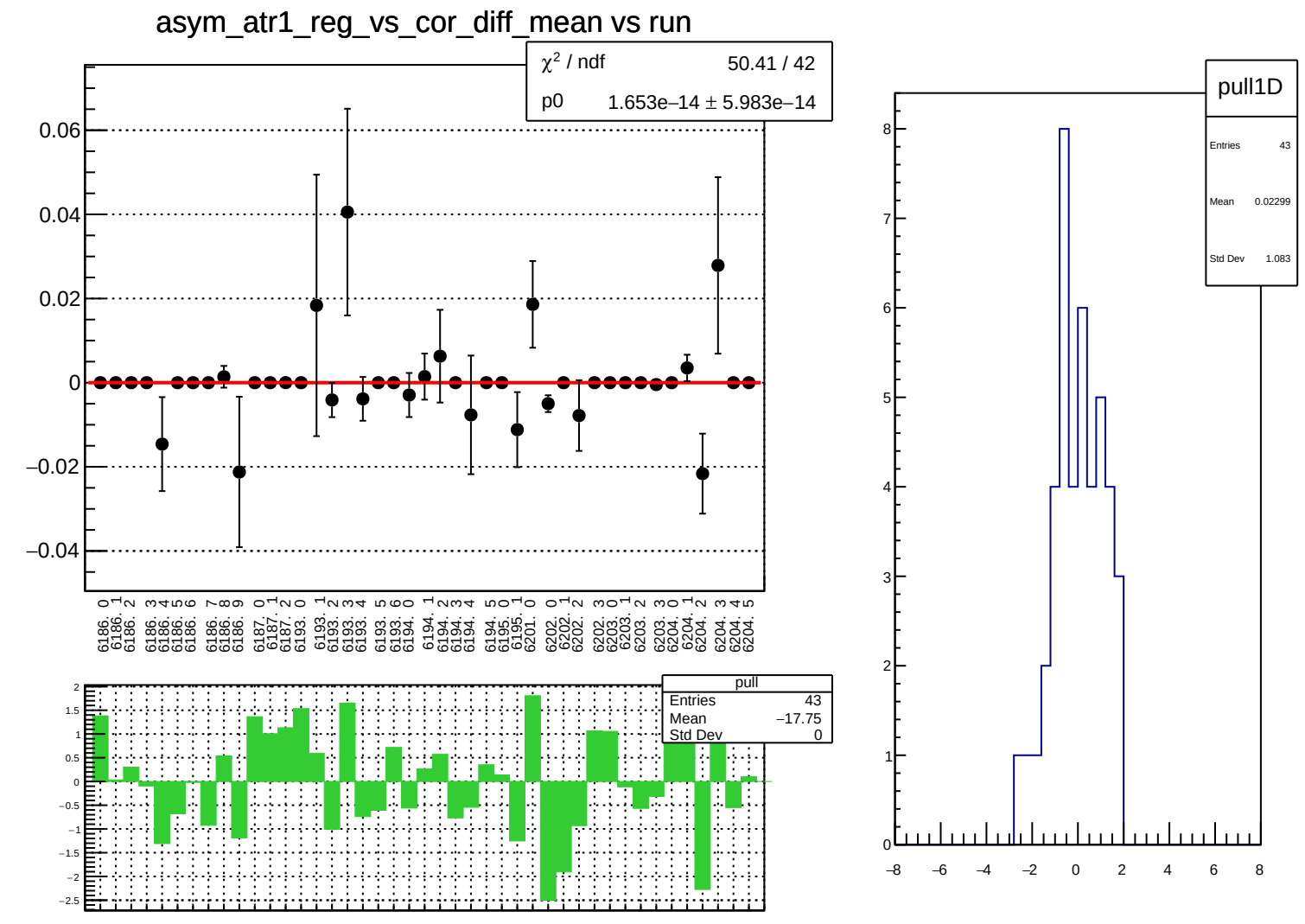

pull1D
Entries 43
Mean 0.03759
Std Dev 1.116
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

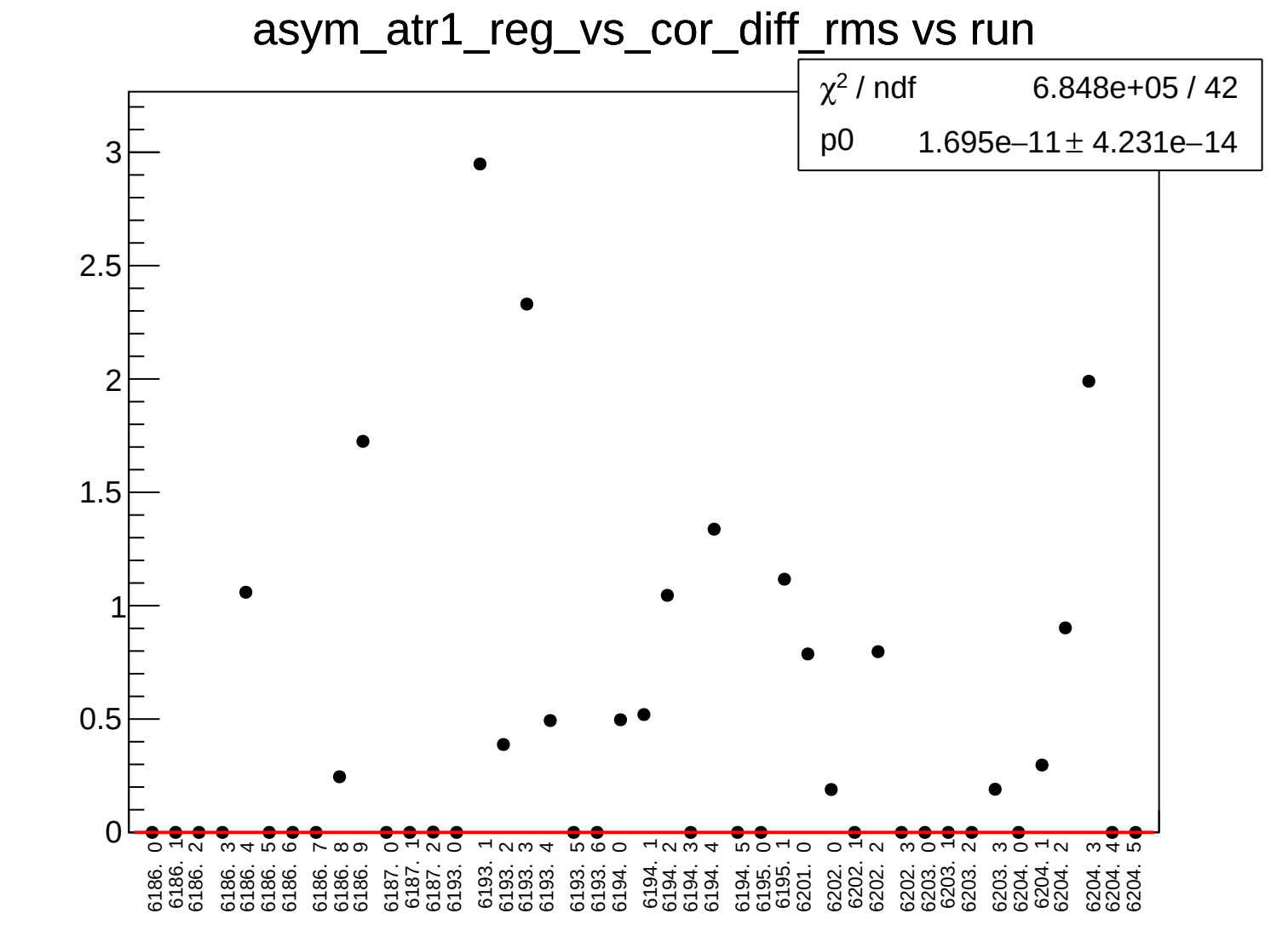

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 739.2 / 42
p0 553 ± 0.6018
600
580
560
540
520
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

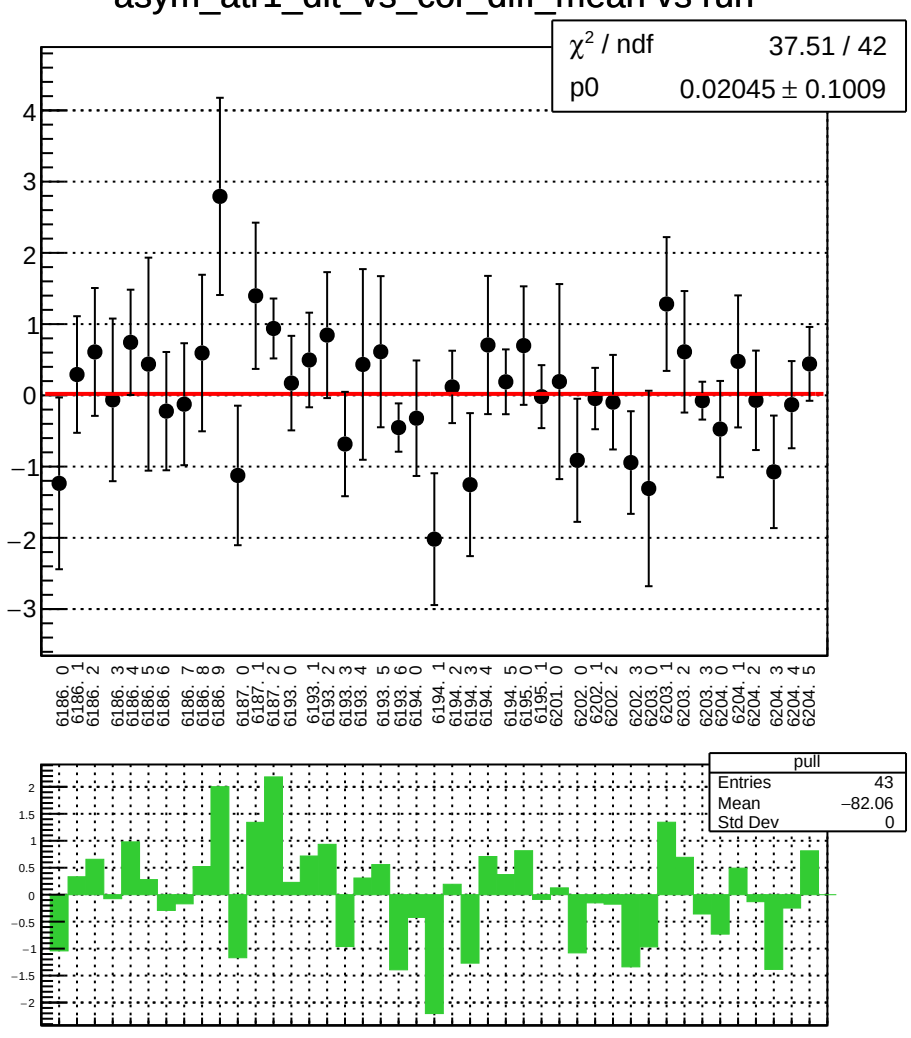

asym_atr1_mean vs run
×10^3
χ² / ndf 37.27 / 42
p0 −6414 ± 4404
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −210.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

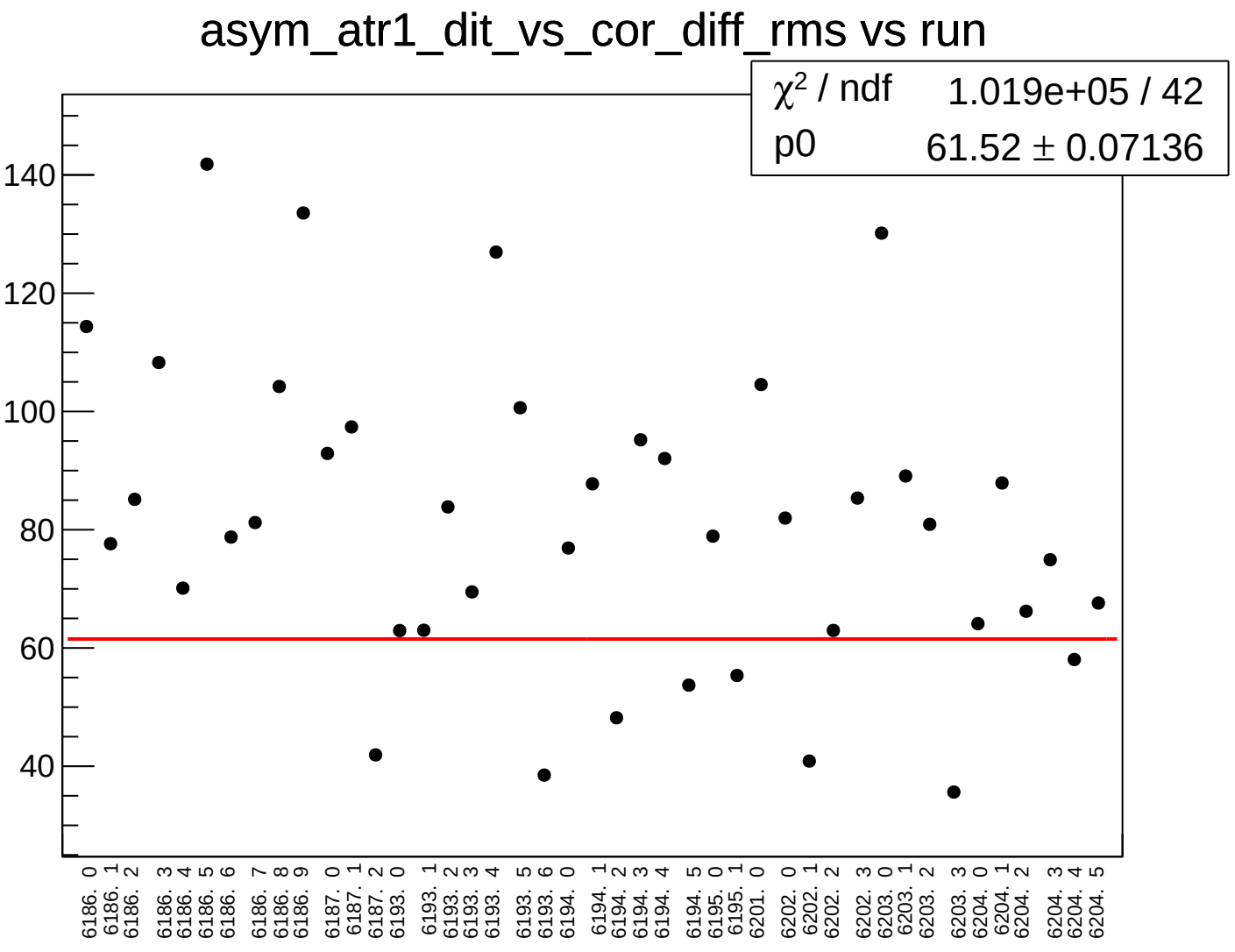

pull1D
Entries 43
Mean 0.02407
Std Dev 0.9307
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

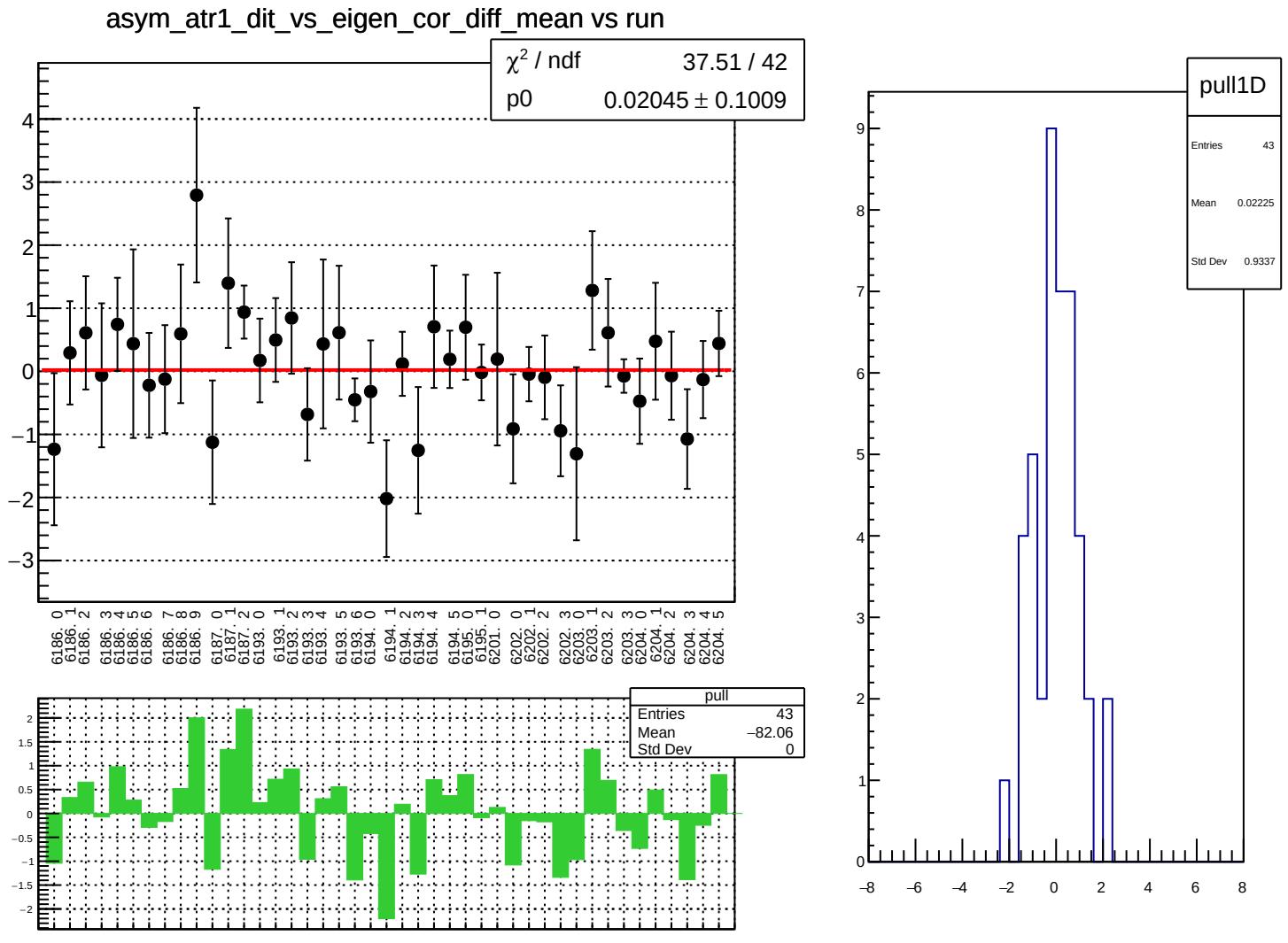

asym_atr1_rms vs run
χ² / ndf 346.6 / 42
p0 2863 ± 3.114
3000
2950
2900
2850
2800
2750
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

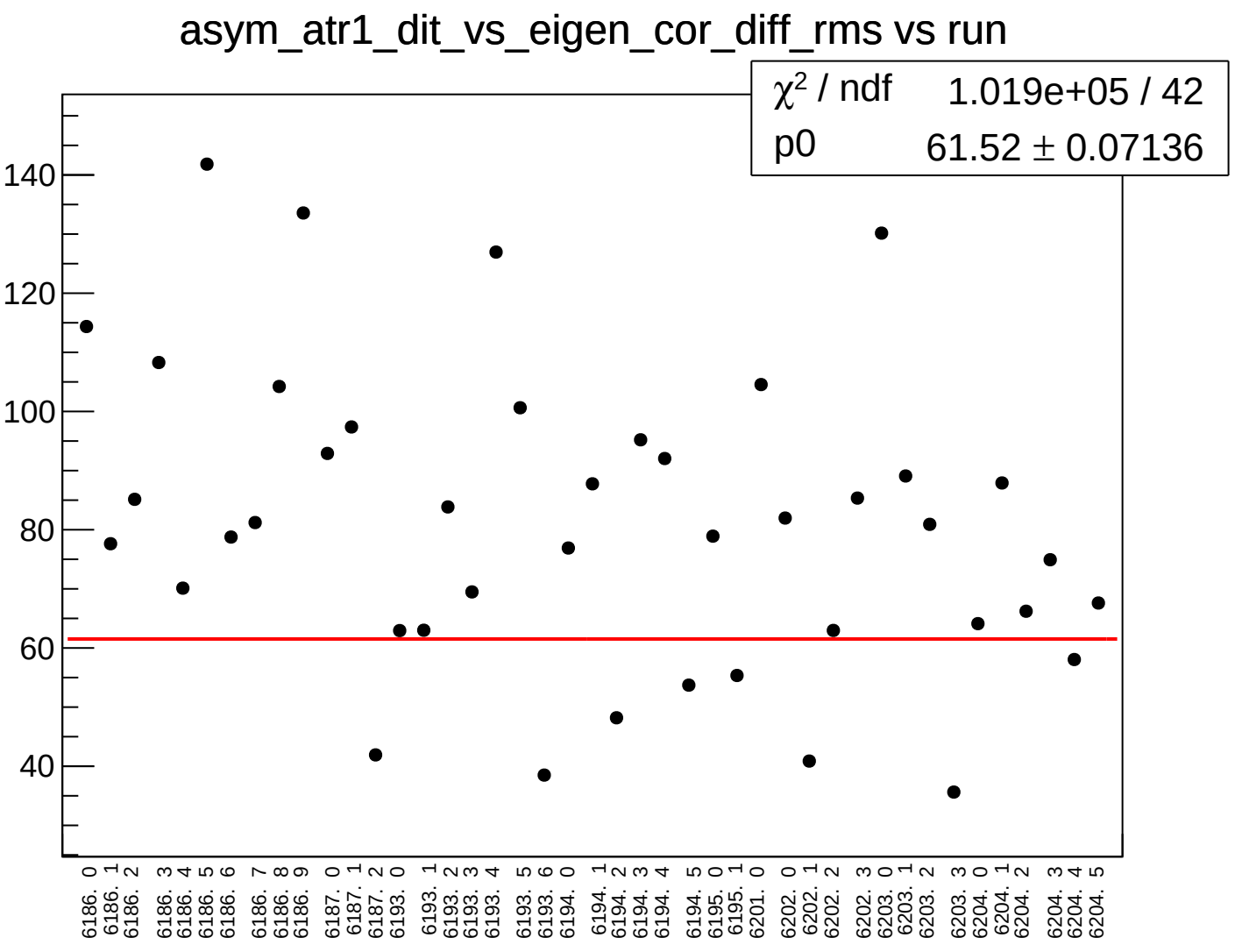

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 50.41 / 42
p0 1.653e−14 ± 5.983e−14
0.06
0.04
0.02
0
−0.02
−0.04
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −17.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.02299
Std Dev 1.083
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

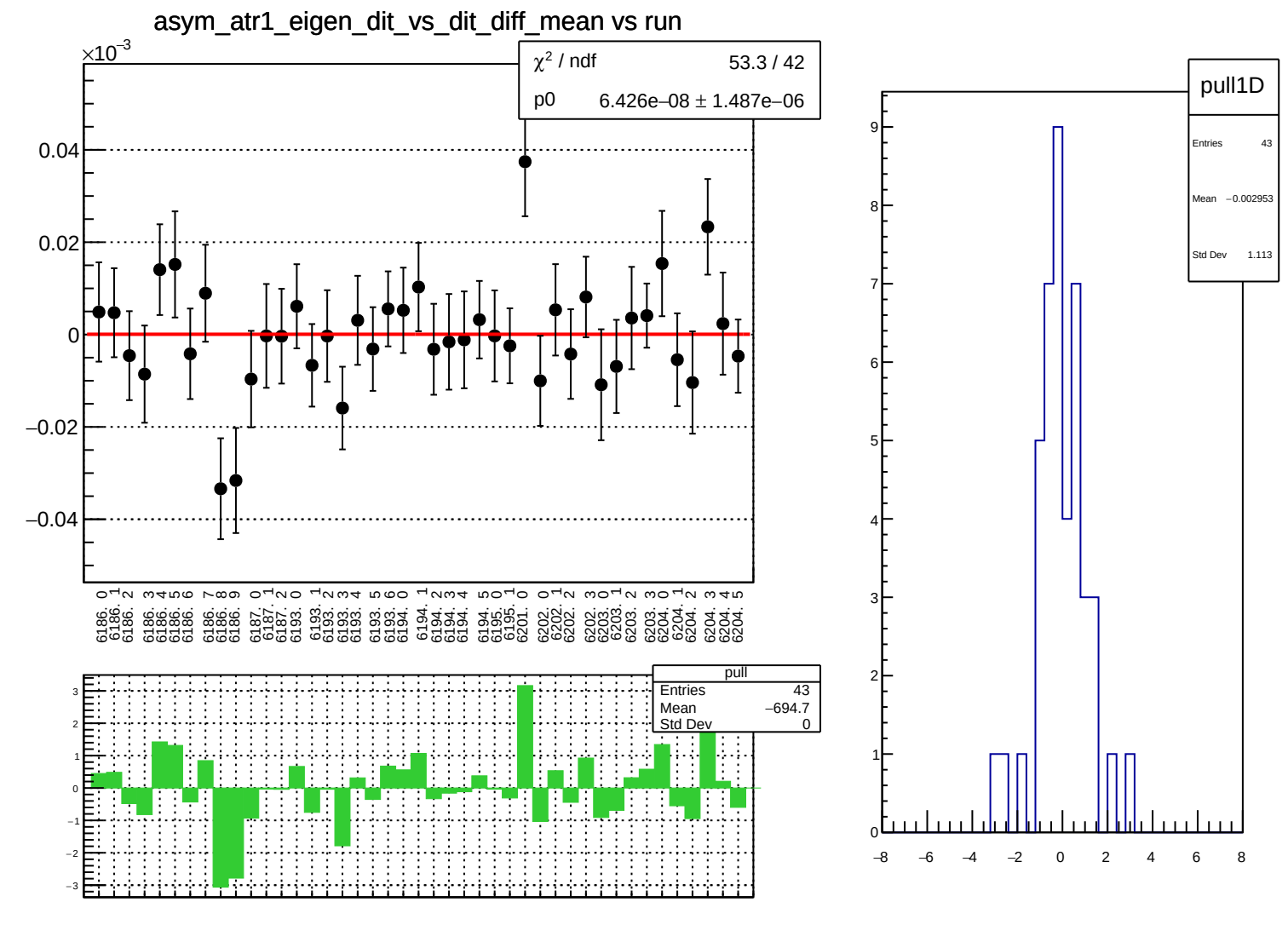

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 6.848e+05 / 42
p0 1.695e−11 ± 4.231e−14
3
2.5
2
1.5
1
0.5
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

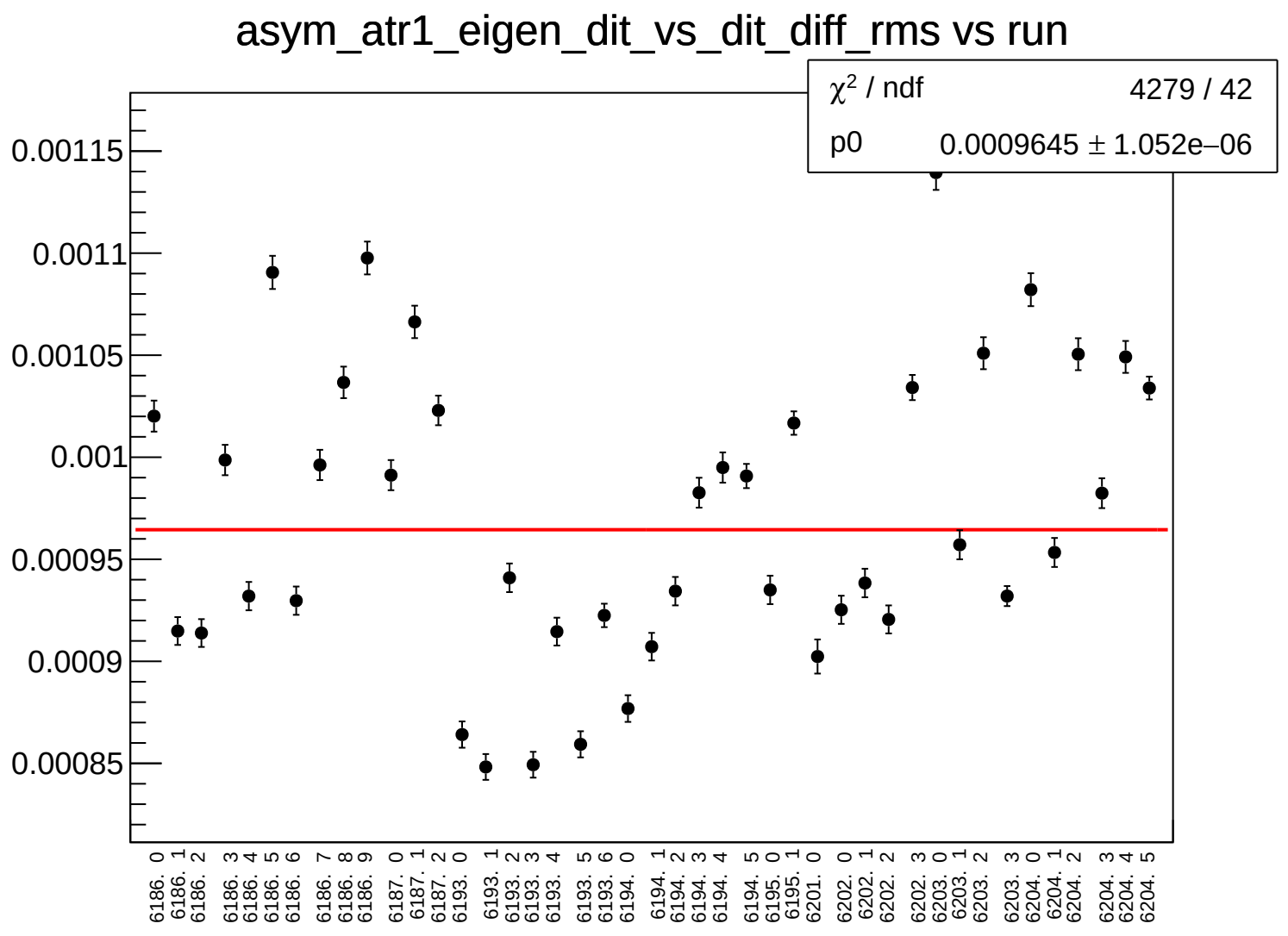

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 37.51 / 42
p0 0.02045 ± 0.1009
pull
Entries 43
Mean −82.06
Std Dev 0
pull1D
Entries 43
Mean 0.02225
Std Dev 0.9337

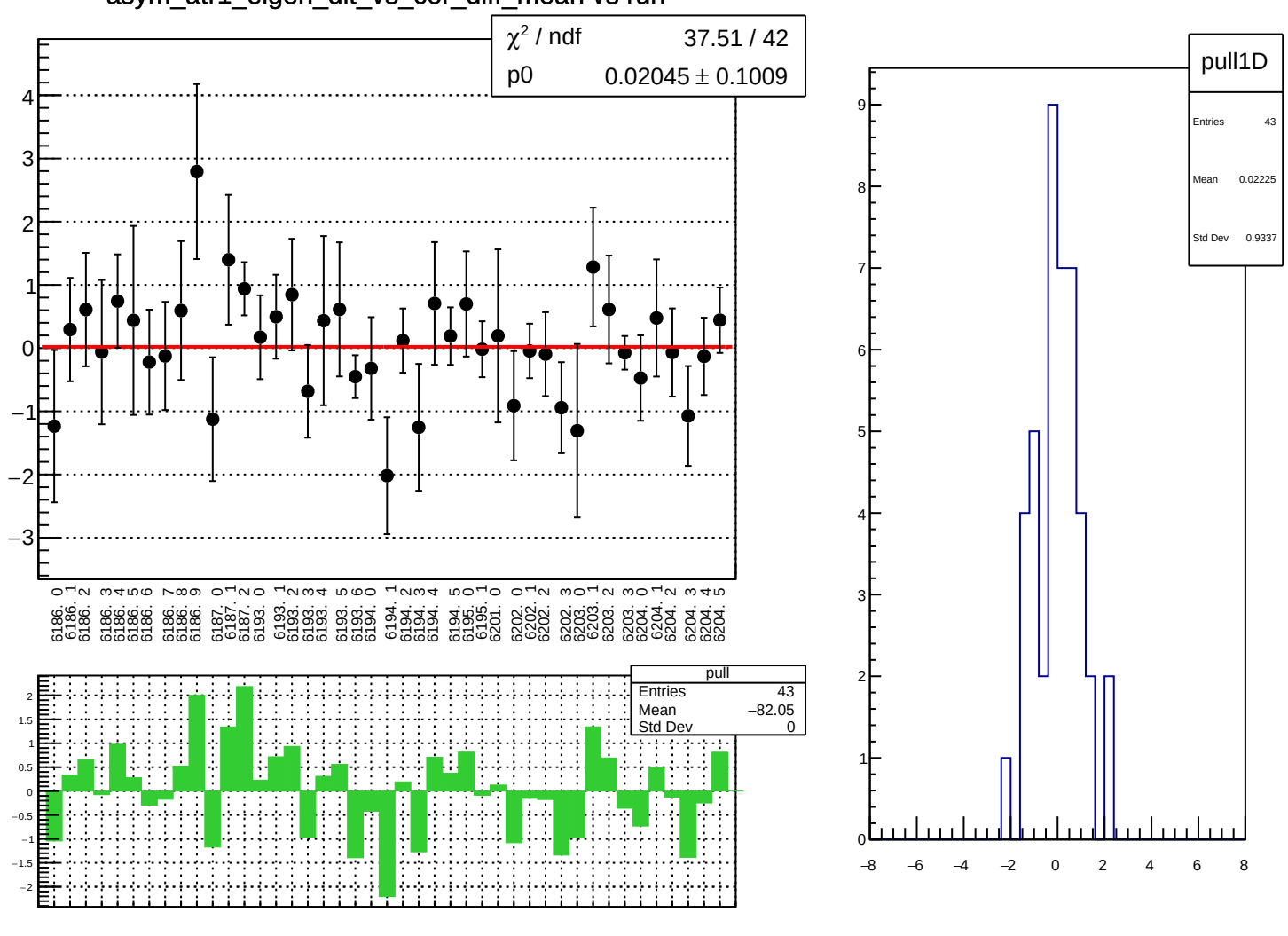

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.019e+05 / 42
p0 61.52 ± 0.07136
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

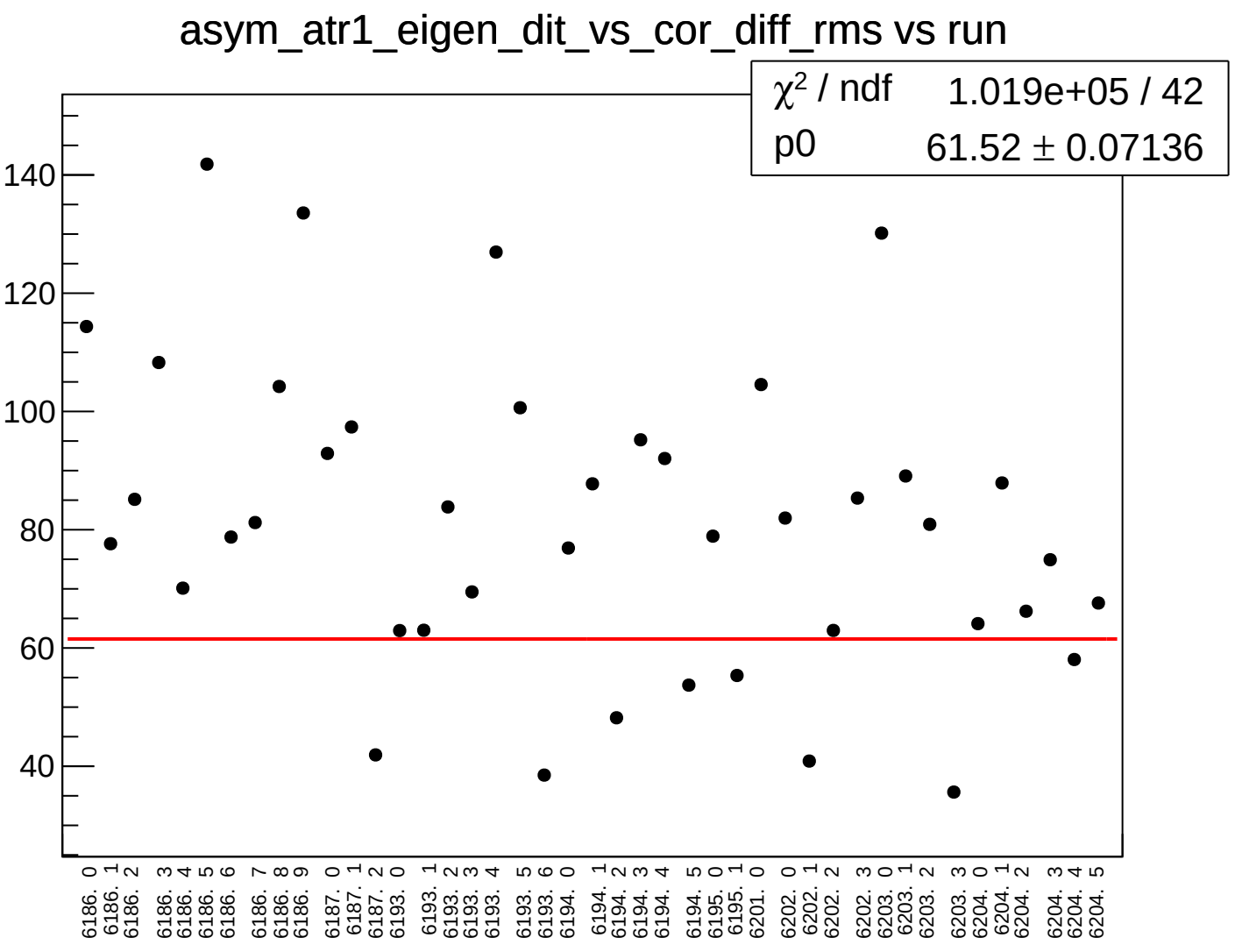

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.51 / 42
p0 0.02045 ± 0.1009
pull
Entries 43
Mean −82.06
Std Dev 0
pull1D
Entries 43
Mean 0.02225
Std Dev 0.9337


asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.019e+05 / 42
p0 61.52 ± 0.07136
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 53.3 / 42
p0 6.426e−08 ± 1.487e−06
0.04
0.02
0
−0.02
−0.04
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −694.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.002953
Std Dev 1.113
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4279 / 42
p0 0.0009645 ± 1.052e−06
0.00115
0.0011
0.00105
0.001
0.00095
0.0009
0.00085
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 37.51 / 42
p0 0.02045 ± 0.1009
pull
Entries 43
Mean −82.05
Std Dev 0
pull1D
Entries 43
Mean 0.02225
Std Dev 0.9337


asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.019e+05 / 42
p0 61.52 ± 0.07136
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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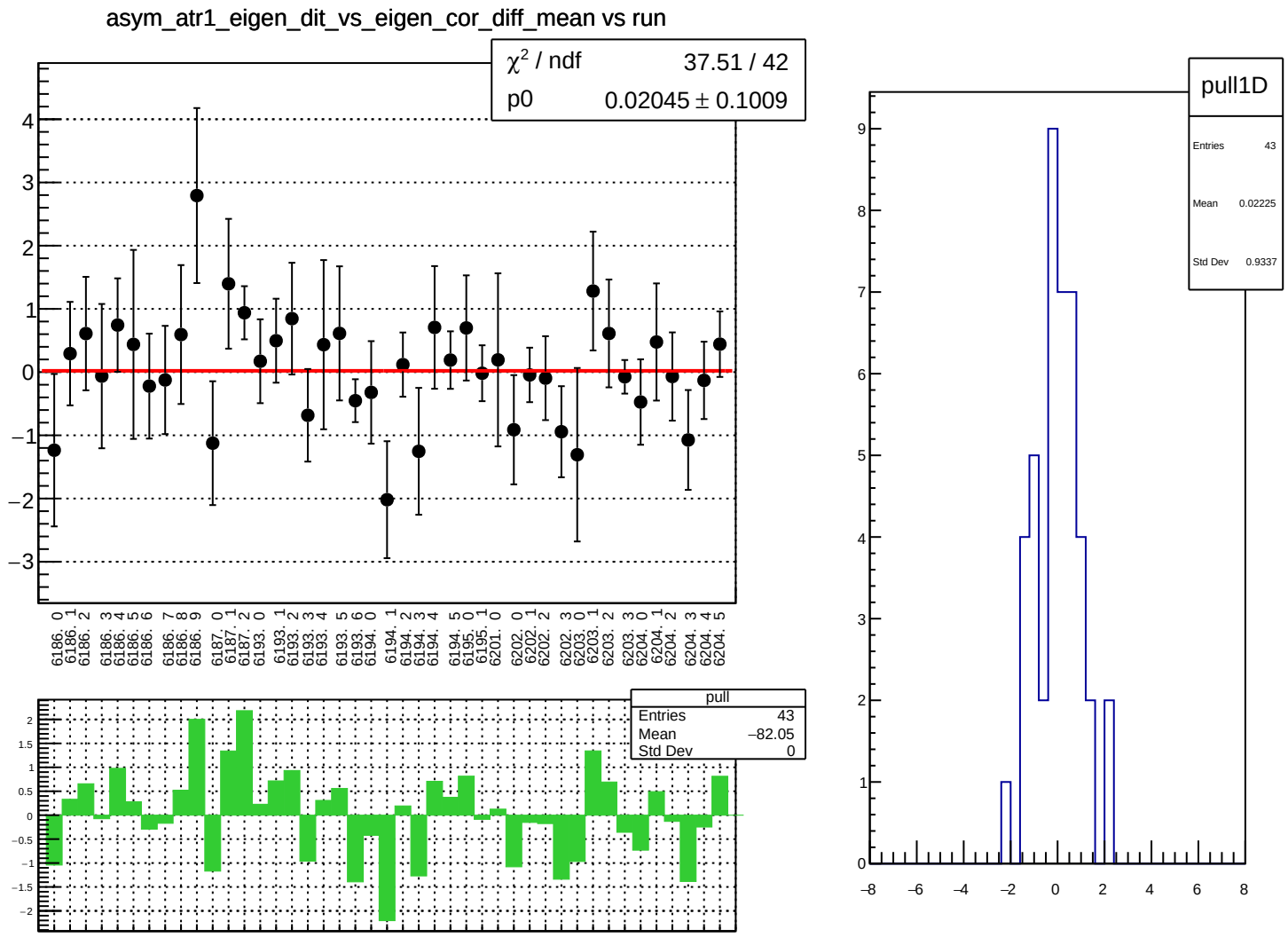
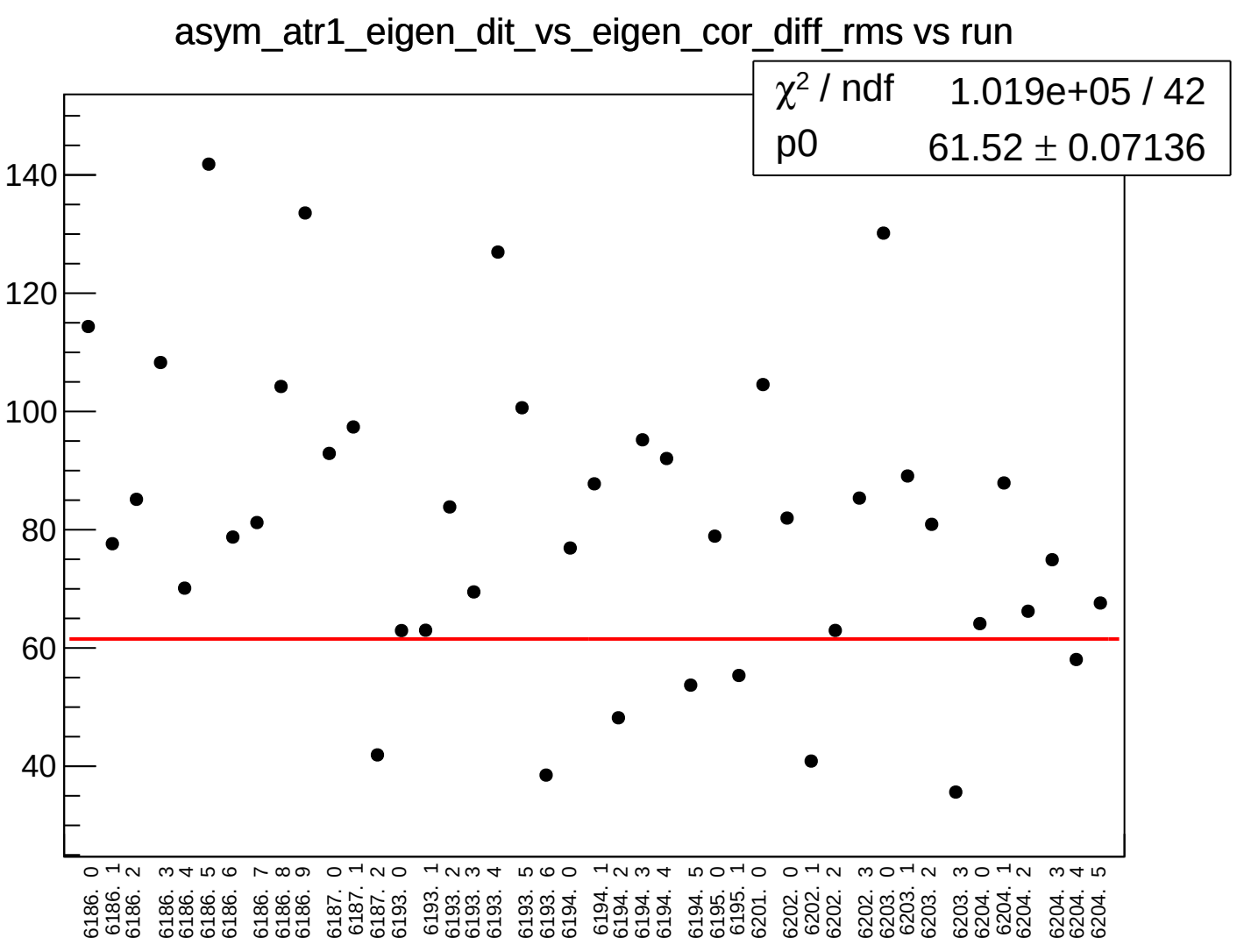
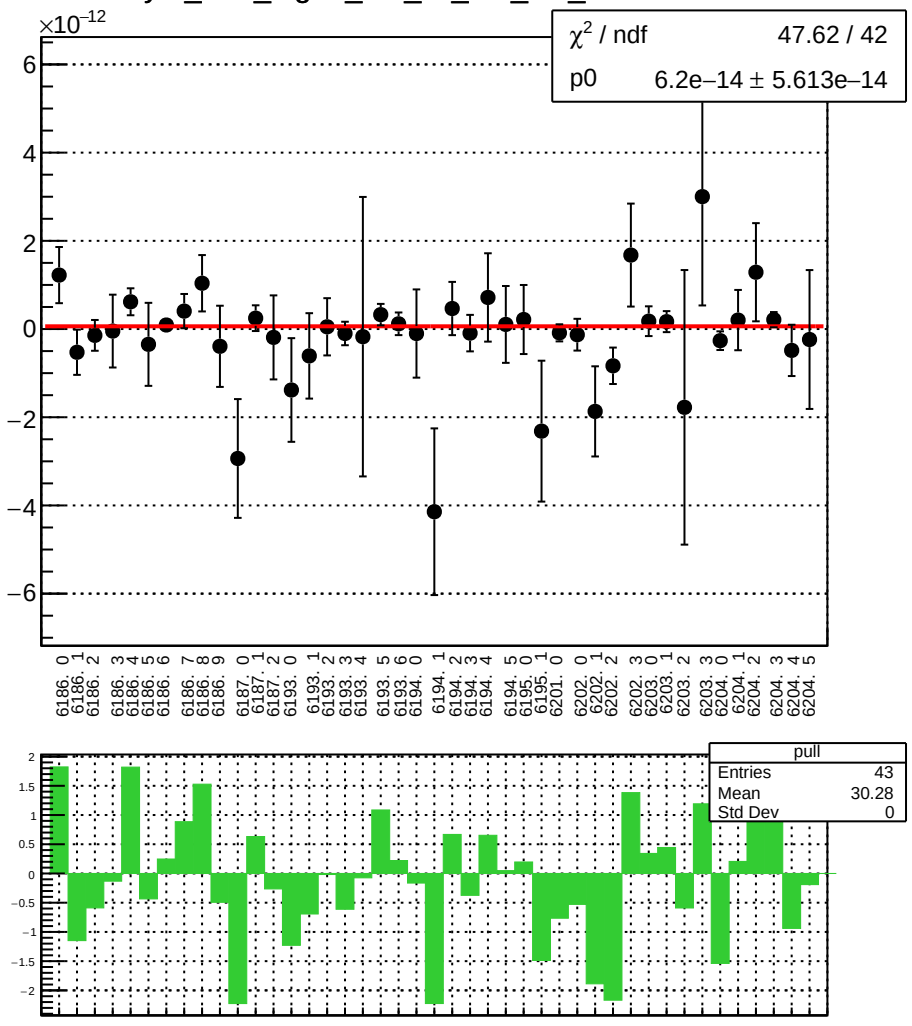
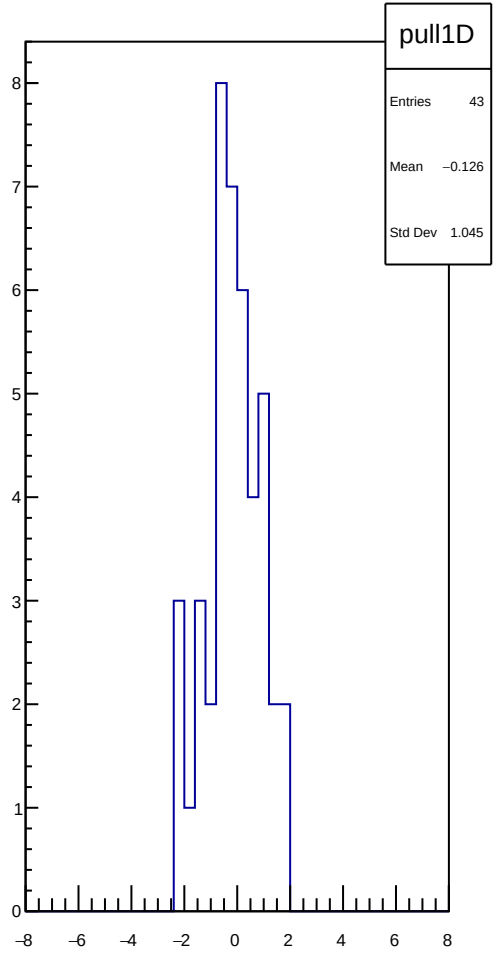
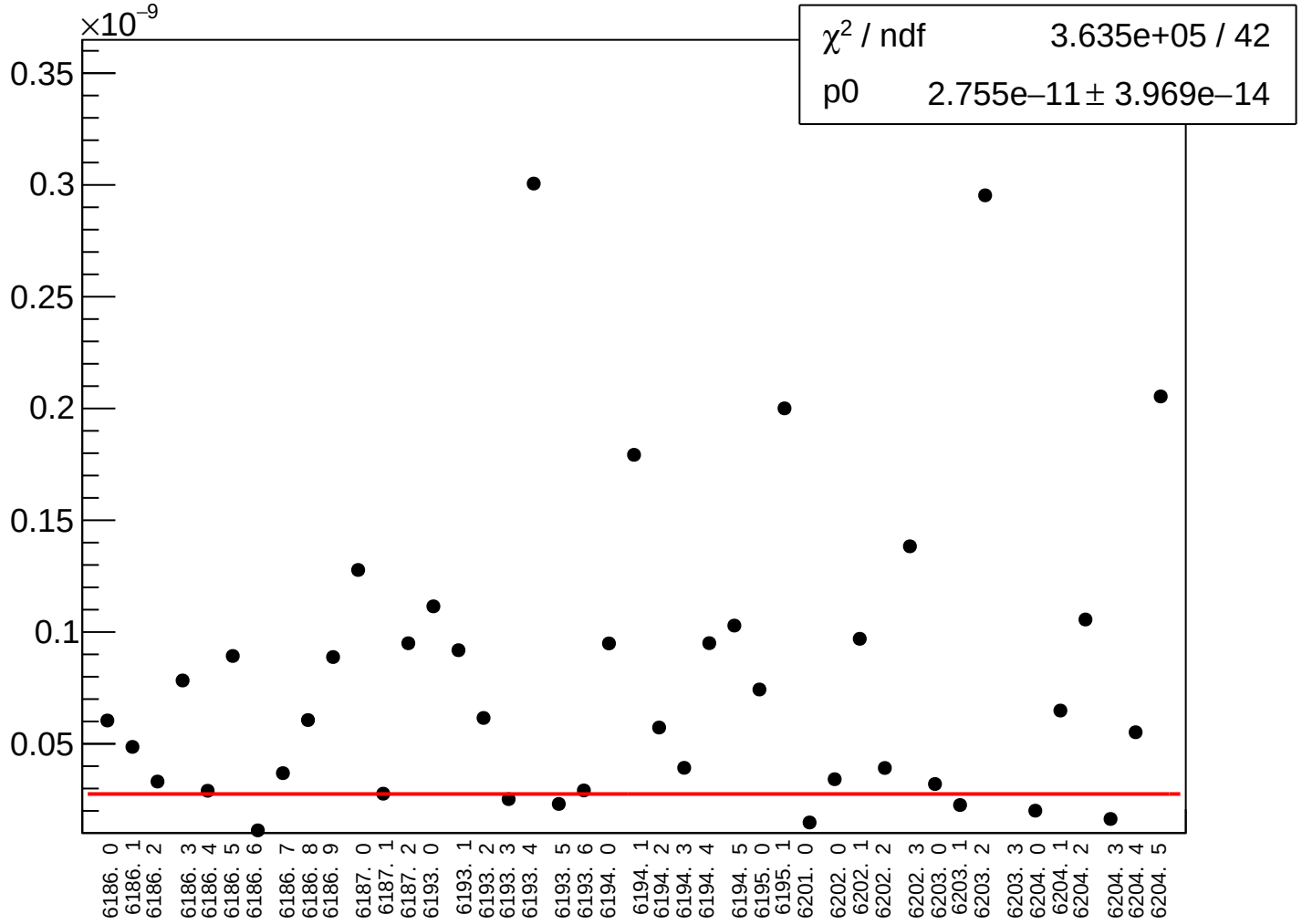
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 37.51 / 42
p0 0.02045 ± 0.1009
pull
Entries 43
Mean −82.05
Std Dev 0
pull1D
Entries 43
Mean 0.02225
Std Dev 0.9337


asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.019e+05 / 42
p0 61.52 ± 0.07136
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 47.62 / 42
p0 6.2e−14 ± 5.613e−14
pull
Entries 43
Mean 30.28
Std Dev 0


pull1D
Entries 43
Mean −0.126
Std Dev 1.045


asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.635e+05 / 42
p0 2.755e−11 ± 3.969e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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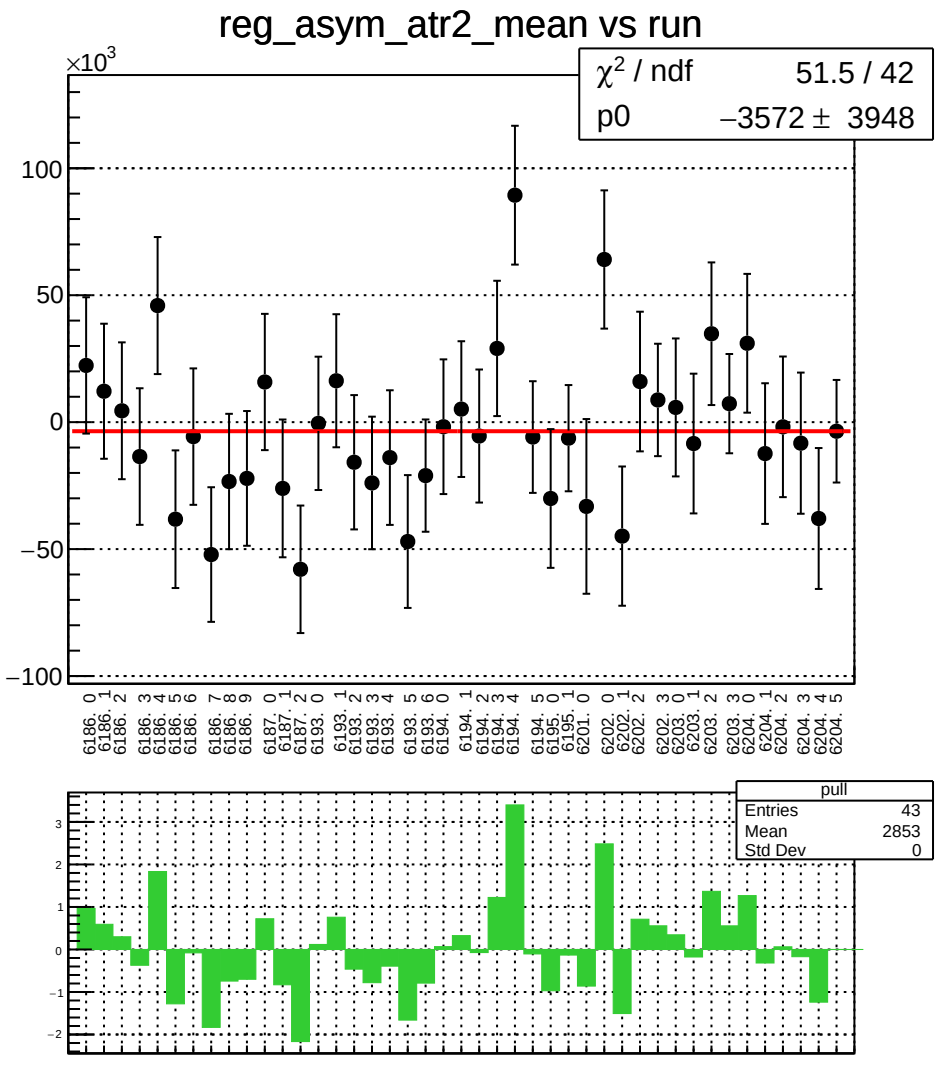
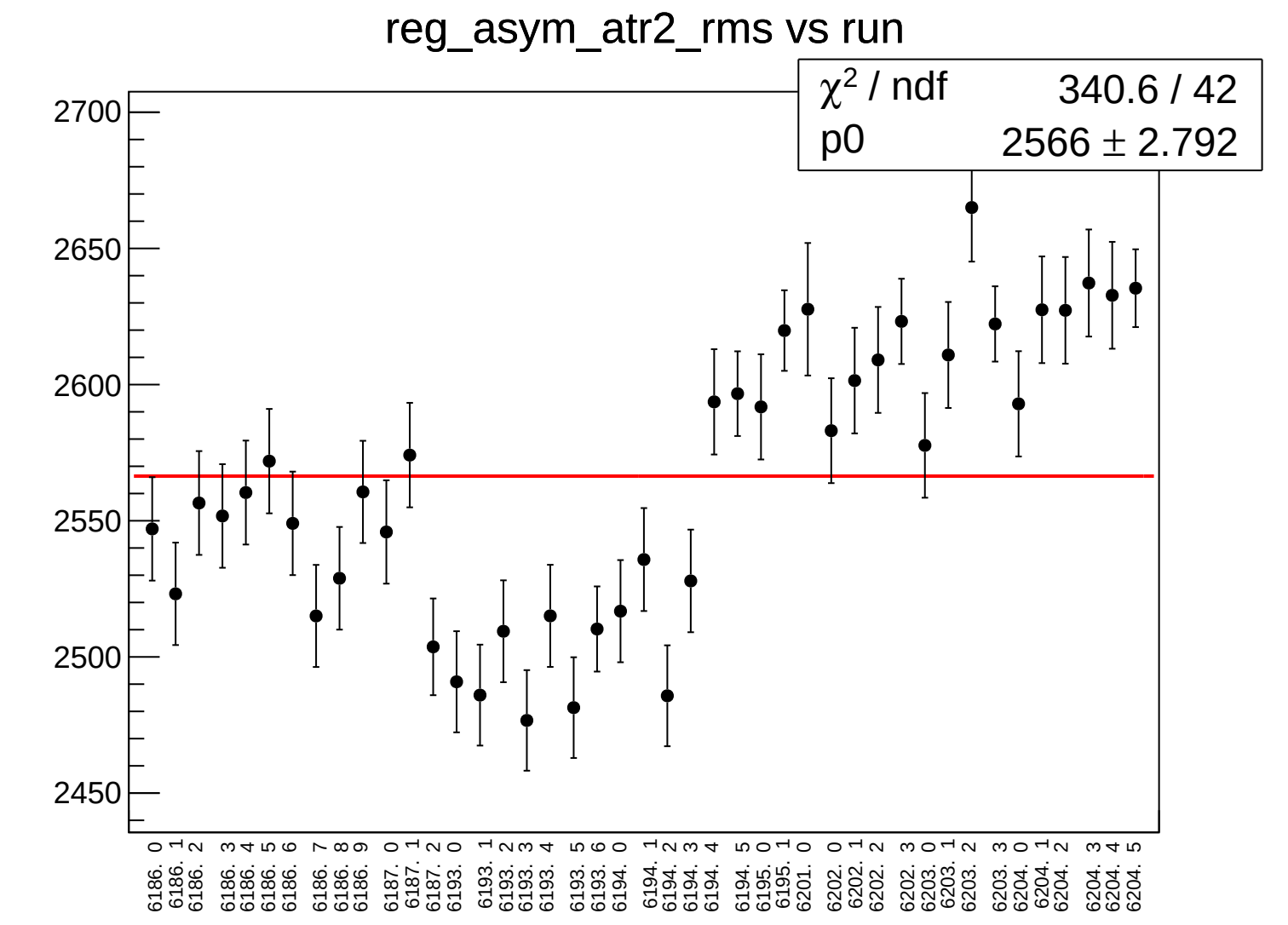
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_atr2_mean vs run
×10^3
χ² / ndf 51.5 / 42
p0 −3572 ± 3948
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2853
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.0005648
Std Dev 1.094
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr2_rms vs run
χ² / ndf 340.6 / 42
p0 2566 ± 2.792
2700
2650
2600
2550
2500
2450
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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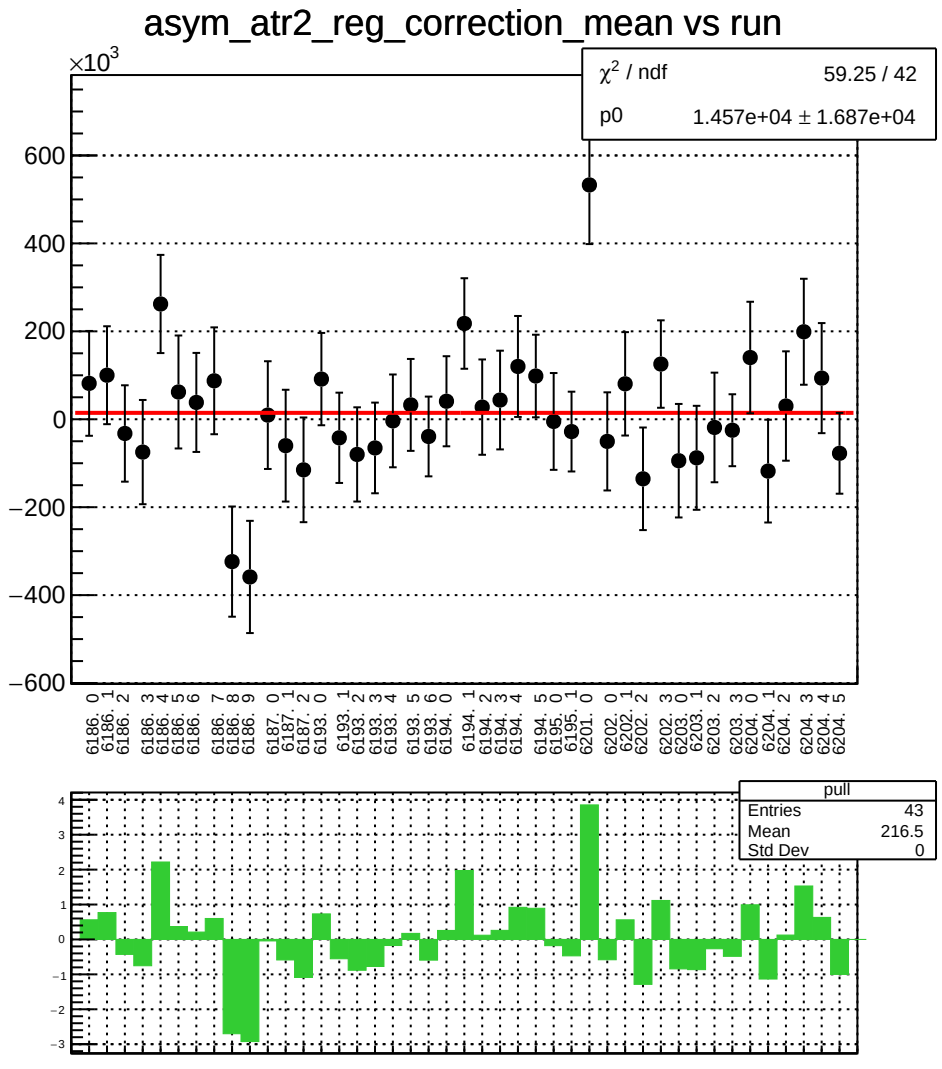
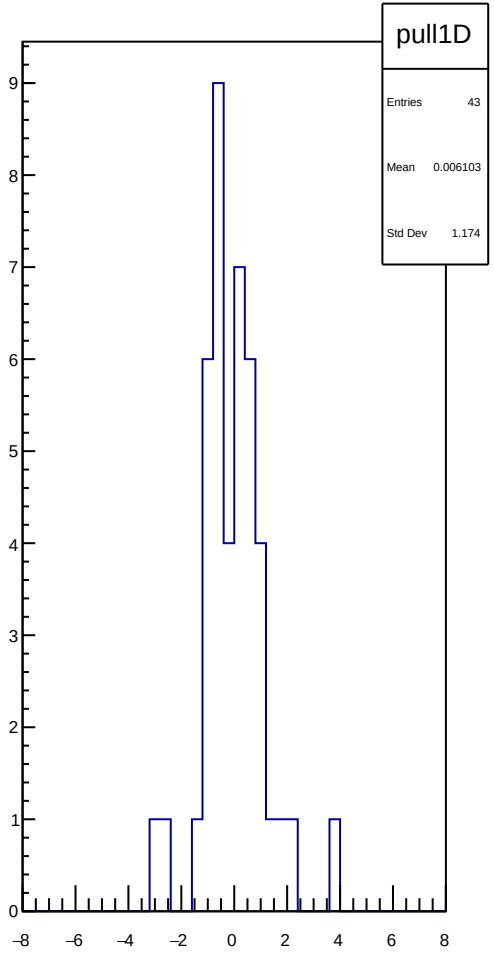
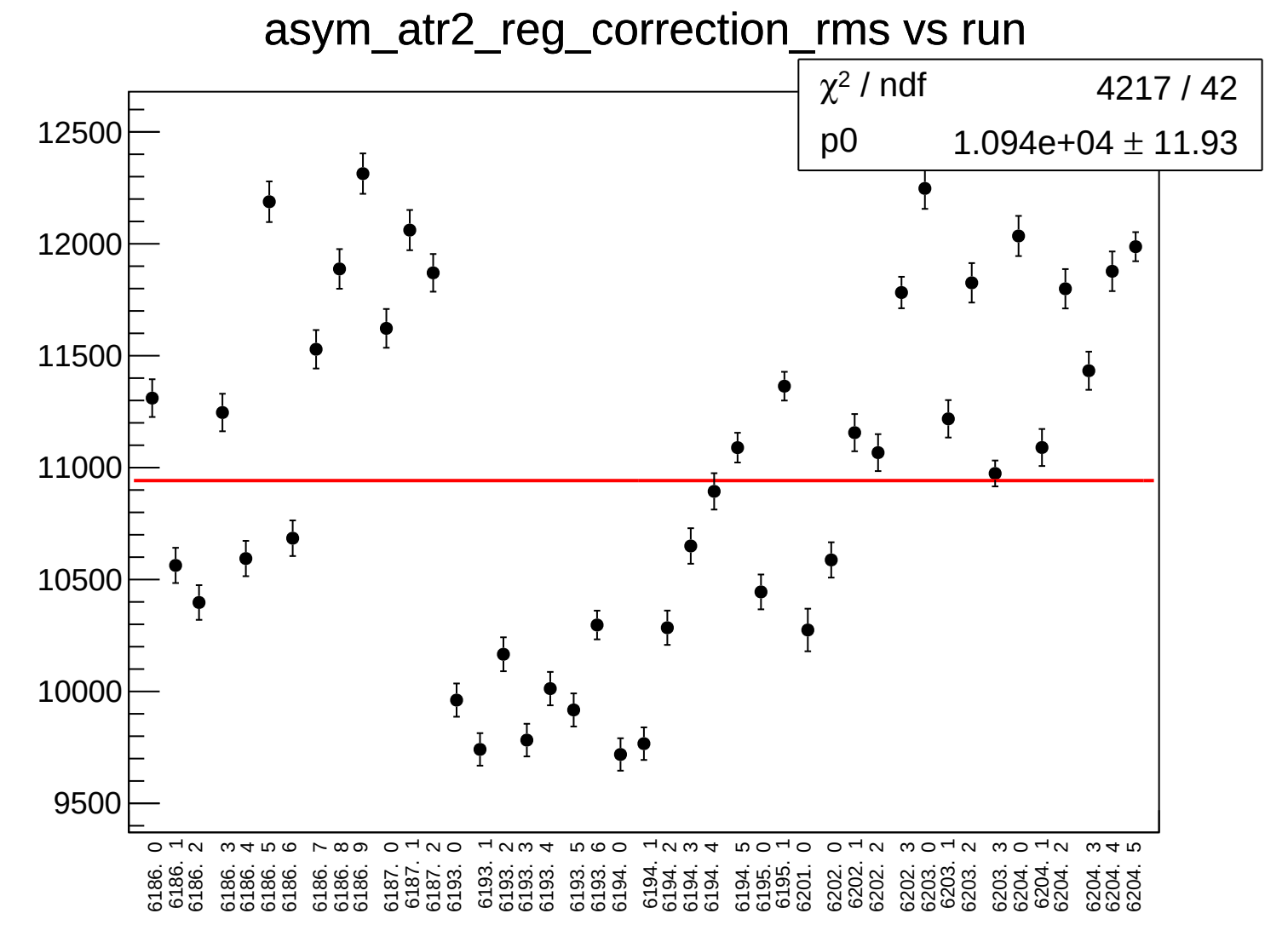
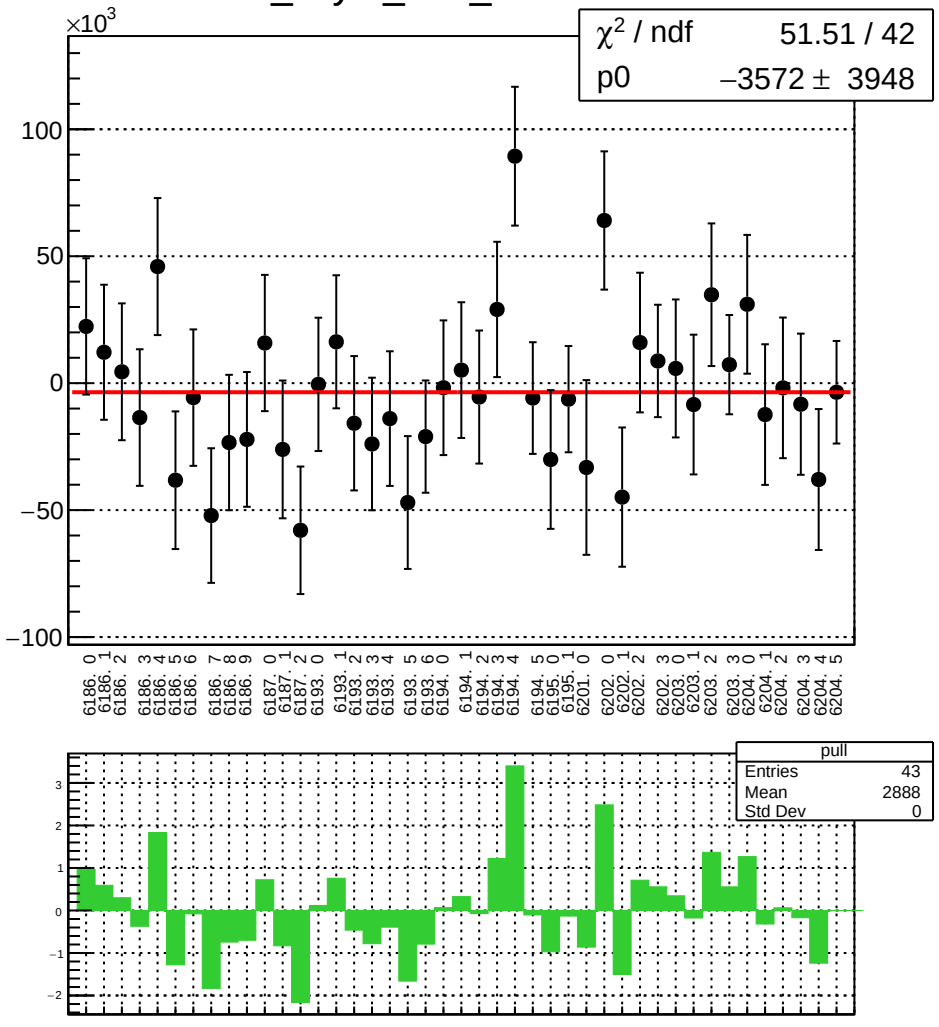
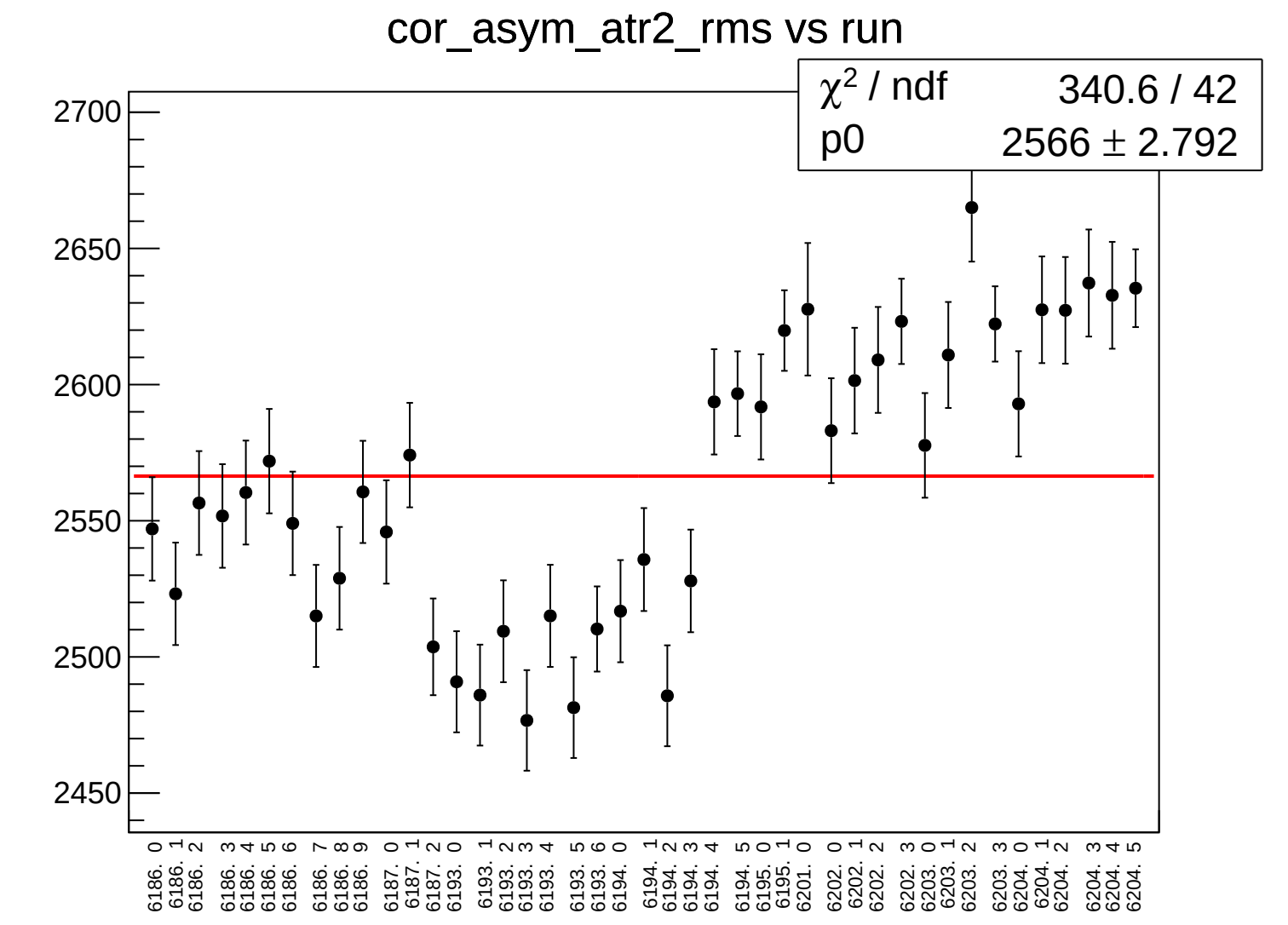
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 59.25 / 42
p0 1.457e+04 ± 1.687e+04
600
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 216.5
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.006103
Std Dev 1.174
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_reg_correction_rms vs run
χ² / ndf 4217 / 42
p0 1.094e+04 ± 11.93
12500
12000
11500
11000
10500
10000
9500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_atr2_mean vs run
×10^3
χ² / ndf 51.51 / 42
p0 −3572 ± 3948
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2888
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.0005577
Std Dev 1.094
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr2_rms vs run
χ² / ndf 340.6 / 42
p0 2566 ± 2.792
2700
2650
2600
2550
2500
2450
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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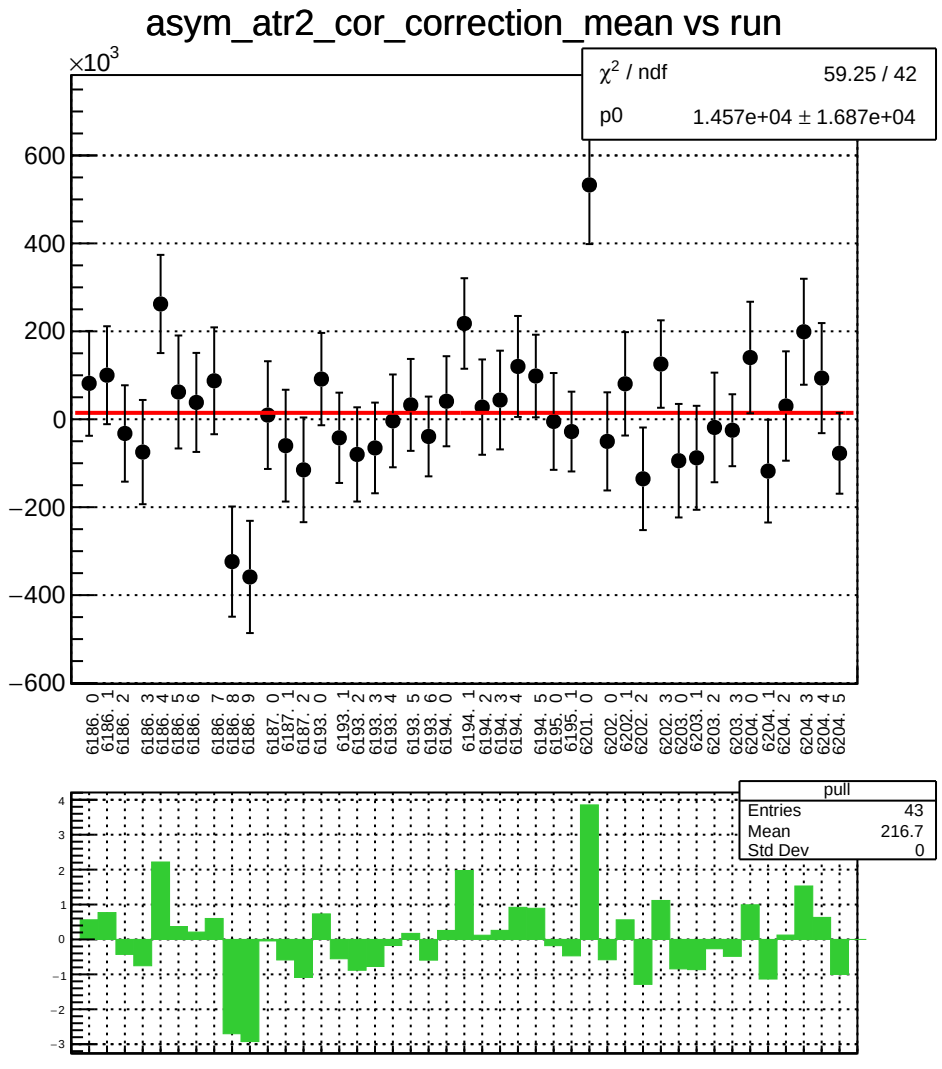
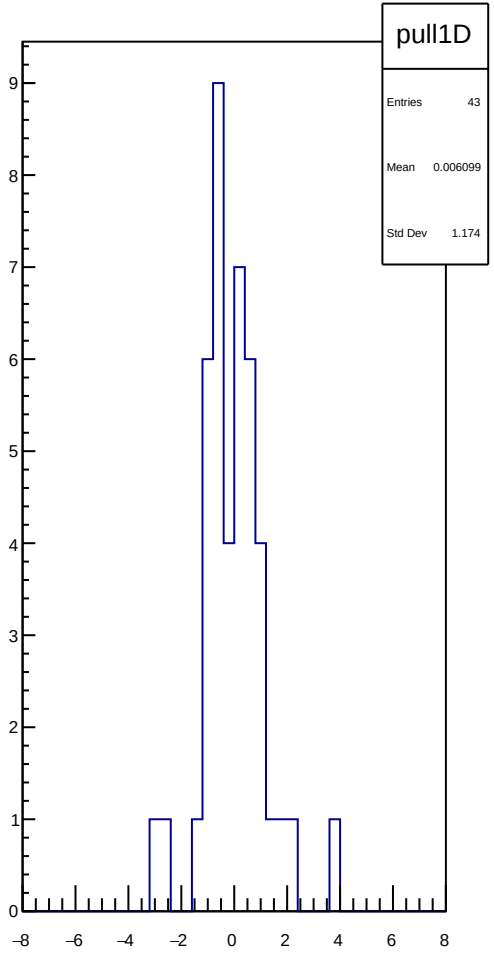
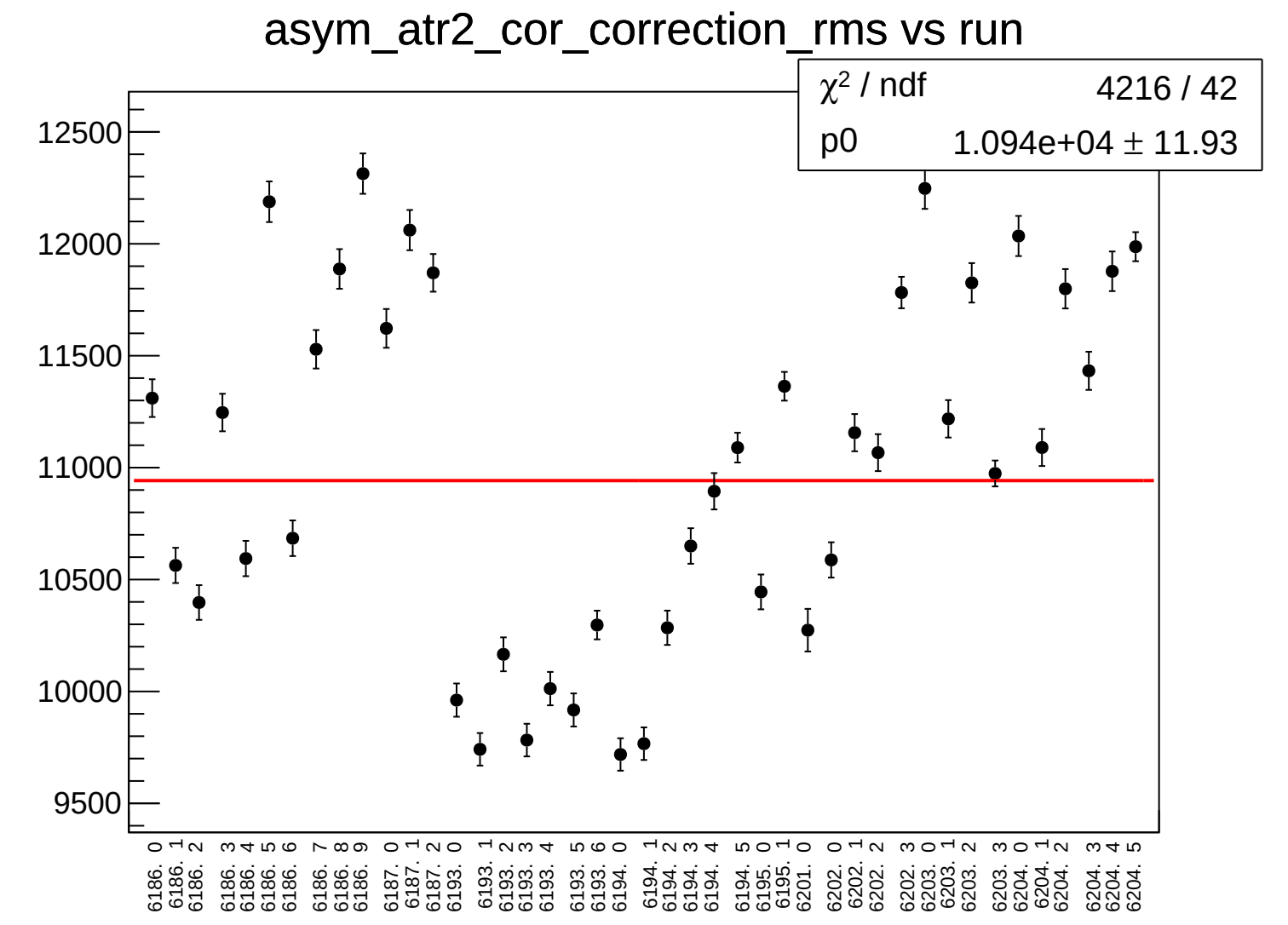
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 59.25 / 42
p0 1.457e+04 ± 1.687e+04
600
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 216.7
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.006099
Std Dev 1.174
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_cor_correction_rms vs run
χ² / ndf 4216 / 42
p0 1.094e+04 ± 11.93
12500
12000
11500
11000
10500
10000
9500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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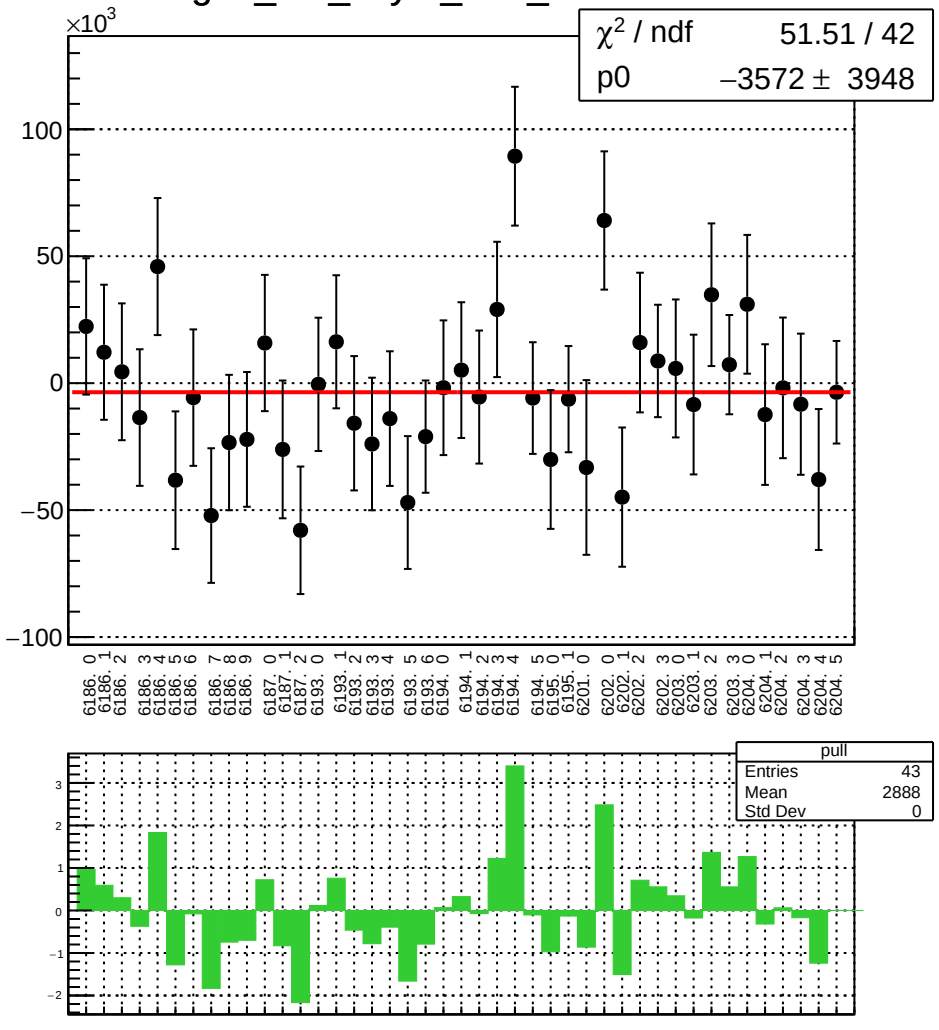
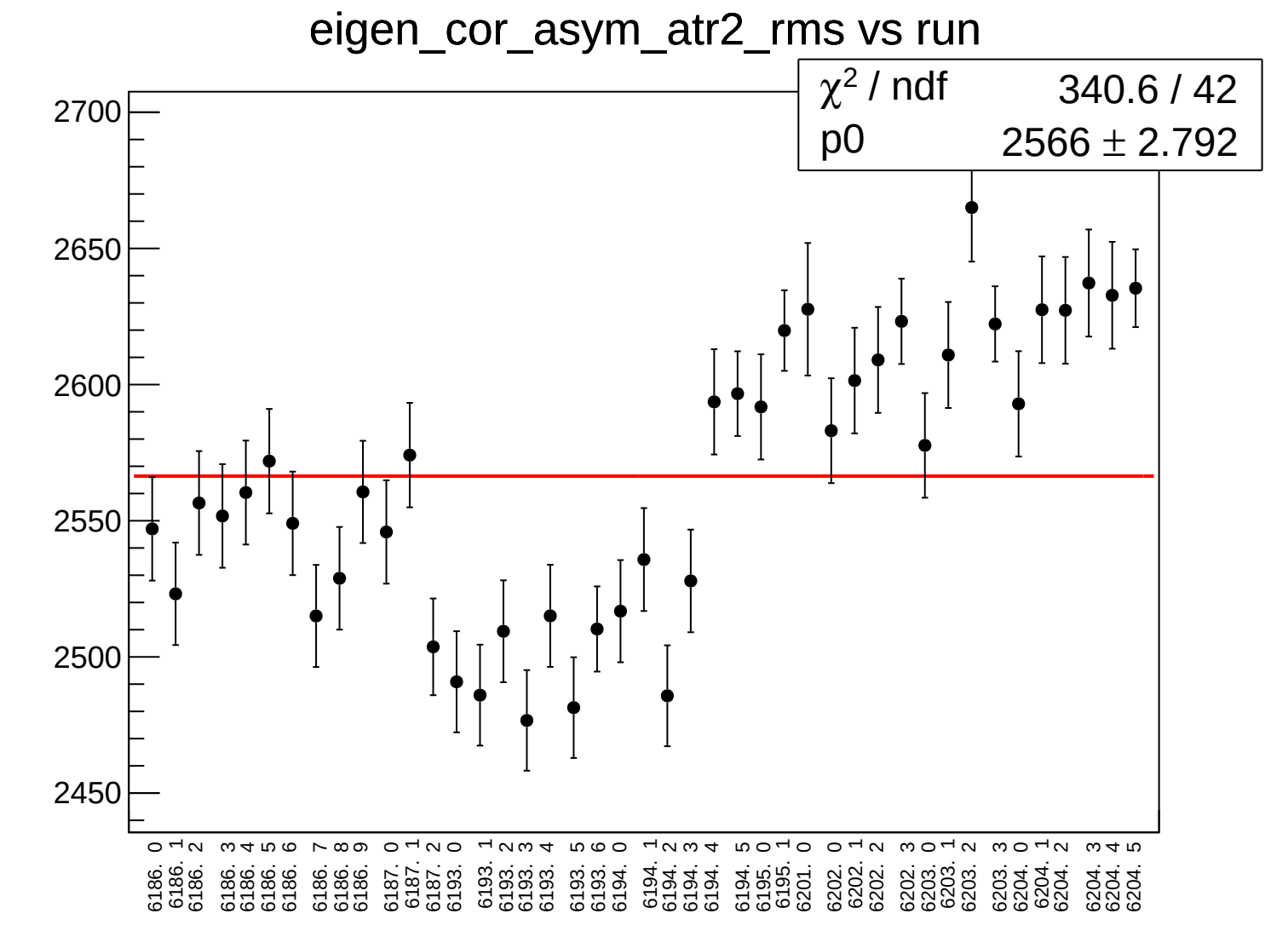
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 51.51 / 42
p0 −3572 ± 3948
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2888
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.0005577
Std Dev 1.094
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr2_rms vs run
χ² / ndf 340.6 / 42
p0 2566 ± 2.792
2700
2650
2600
2550
2500
2450
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
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6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
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6204. 2
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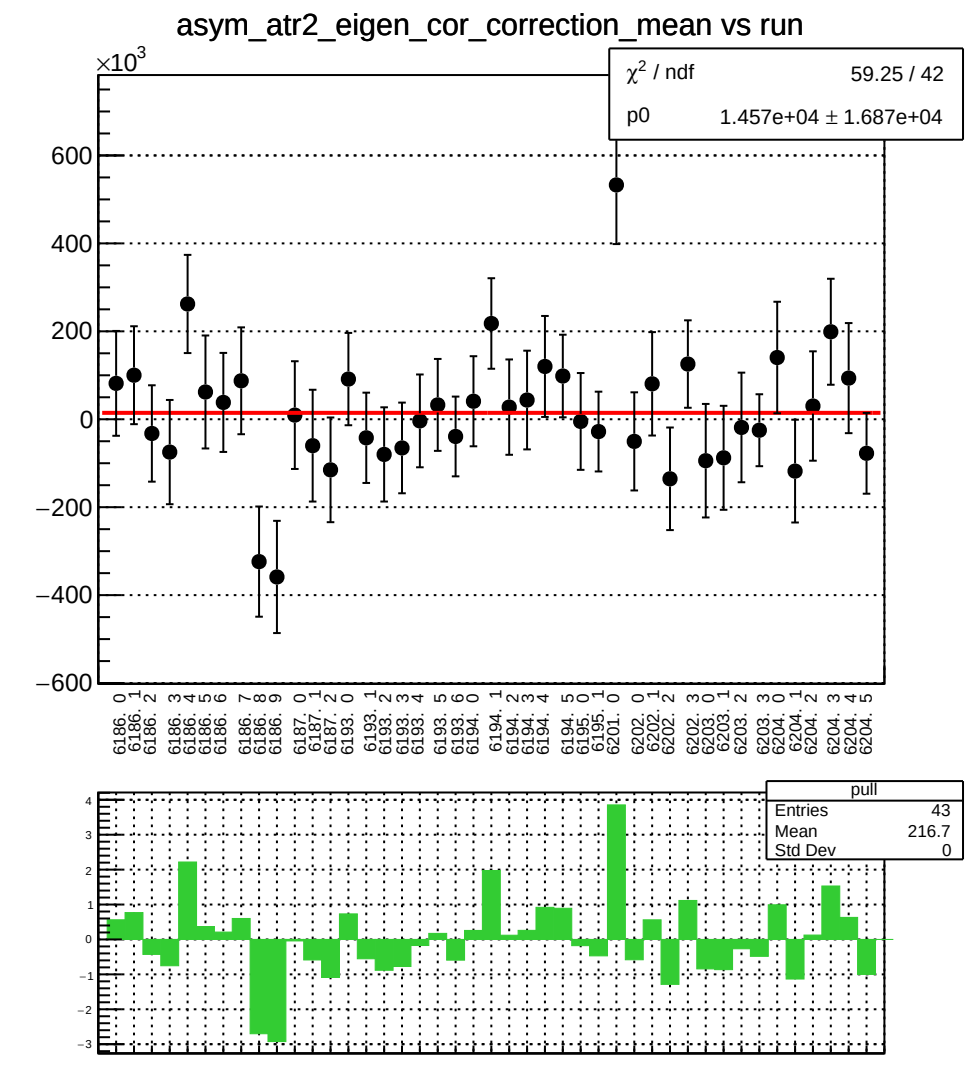
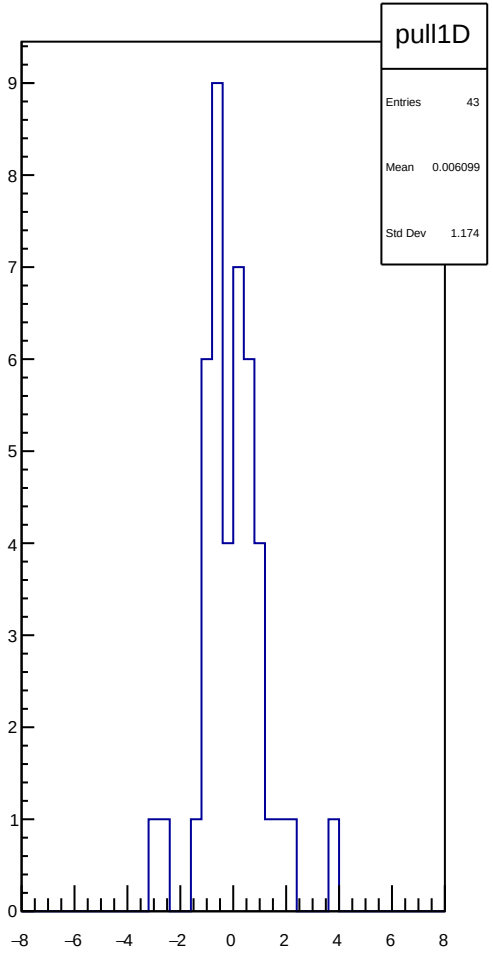
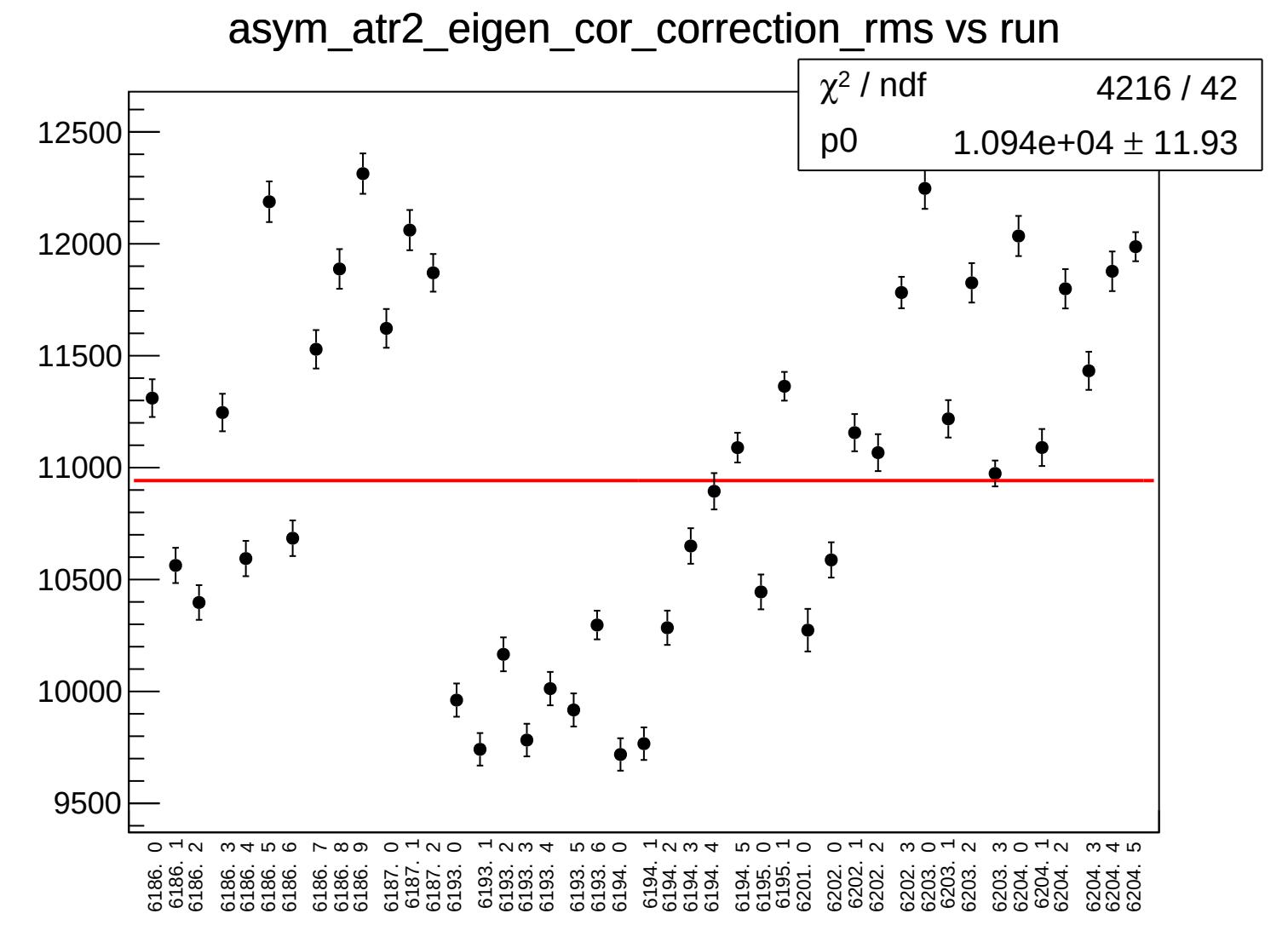
6204. 4
6204. 5


asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 59.25 / 42
p0 1.457e+04 ± 1.687e+04
600
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 216.7
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.006099
Std Dev 1.174
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 4216 / 42
p0 1.094e+04 ± 11.93
12500
12000
11500
11000
10500
10000
9500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
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6187. 2
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6194. 0
6194. 1
6194. 2
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6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
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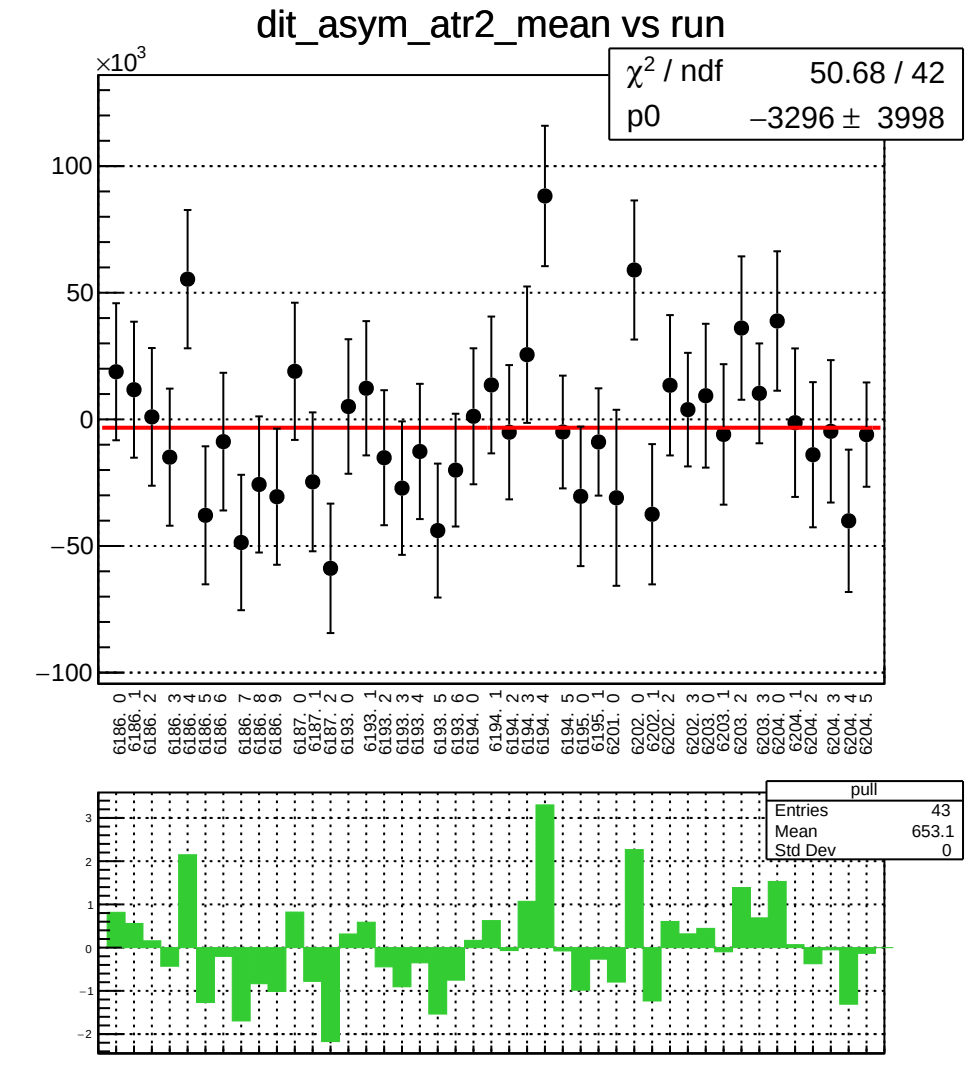
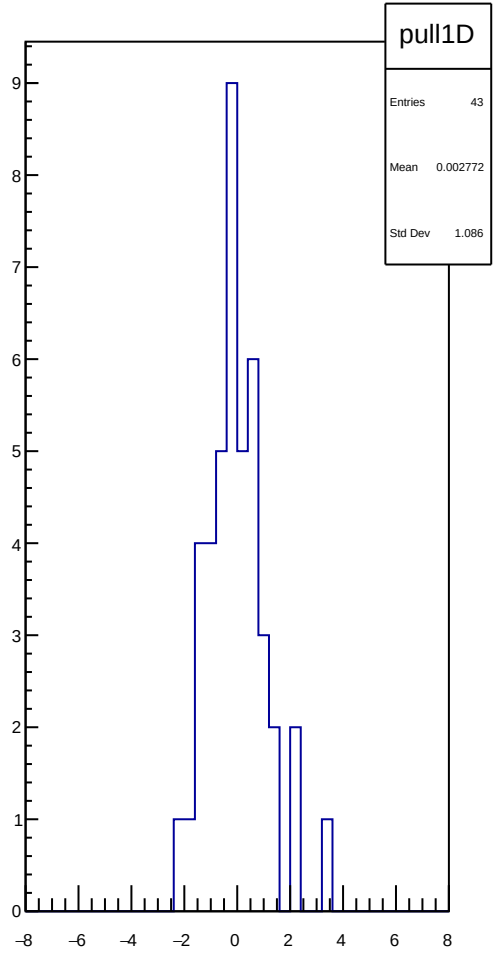
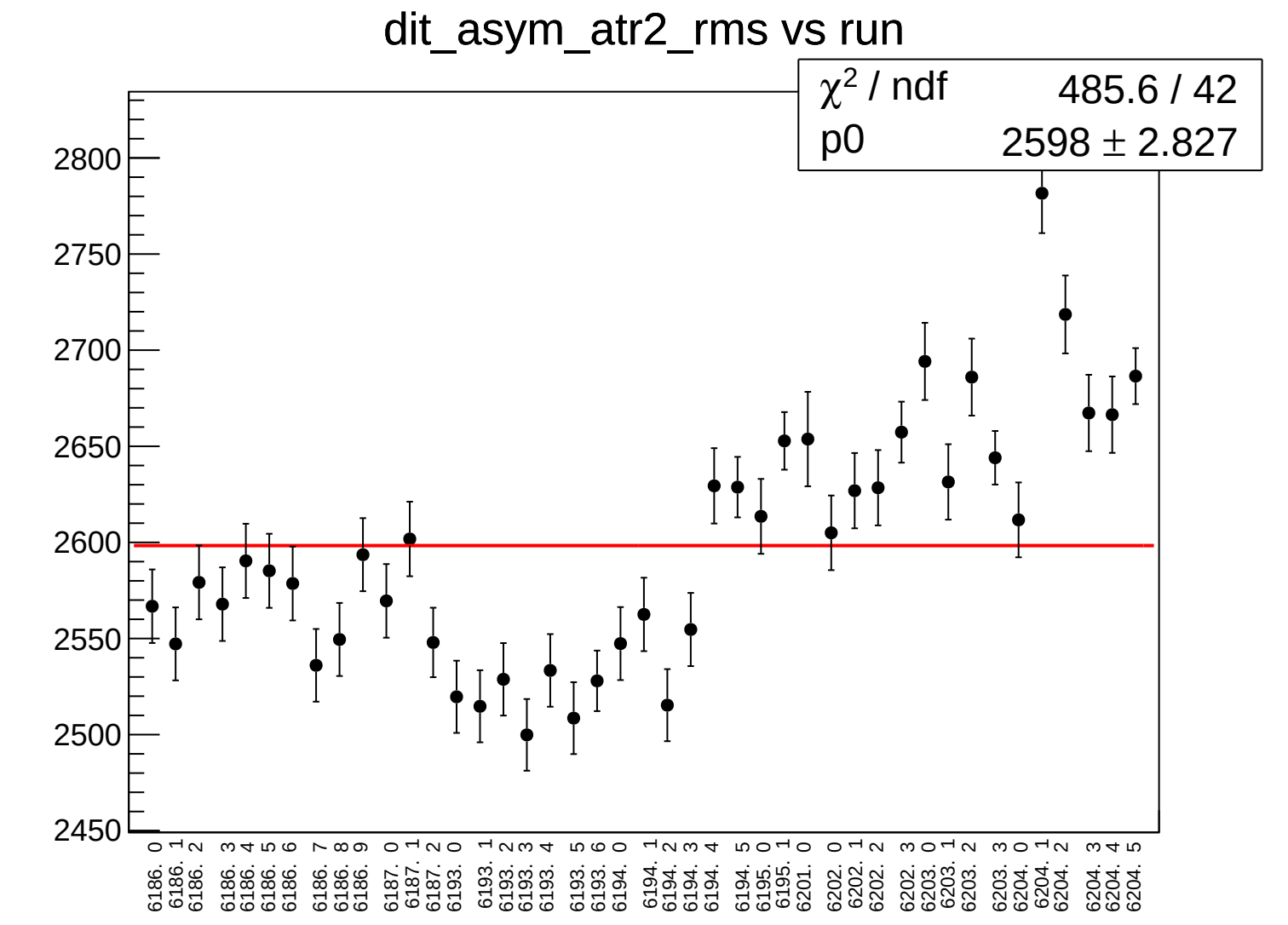
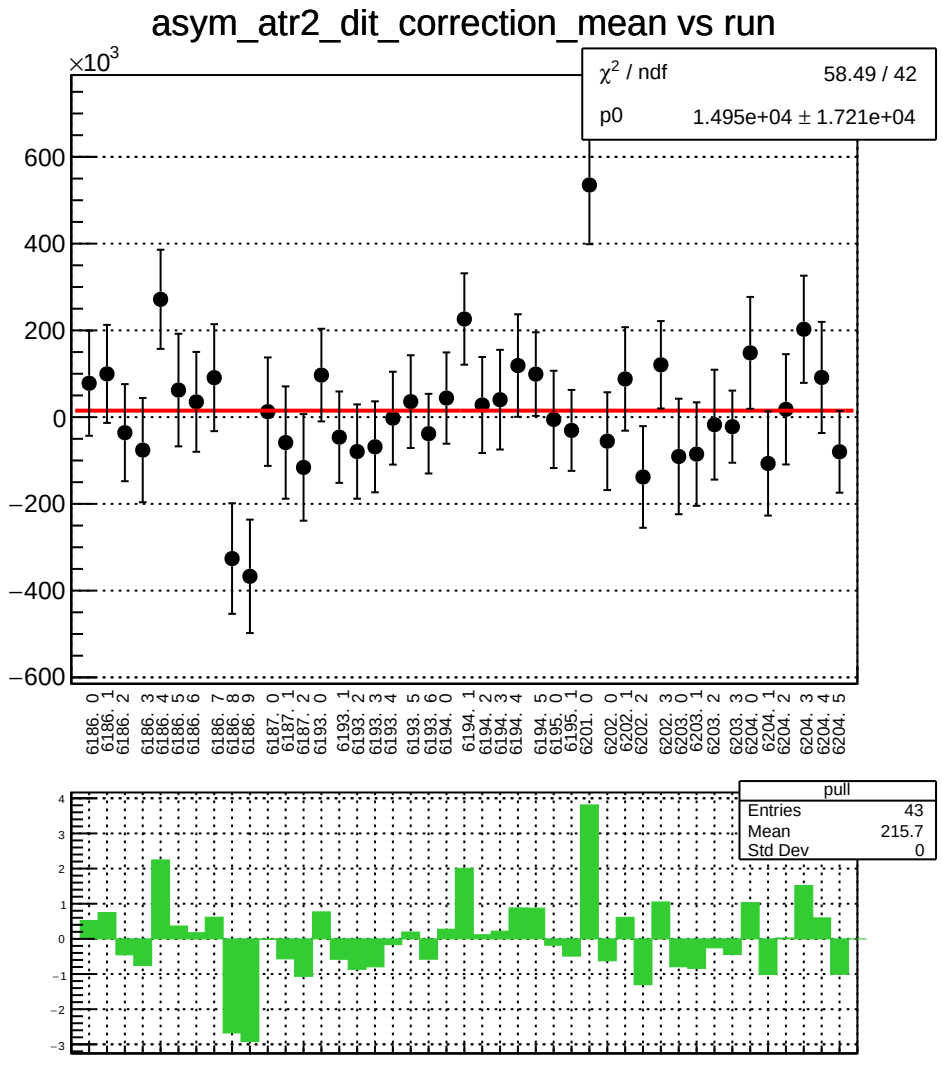
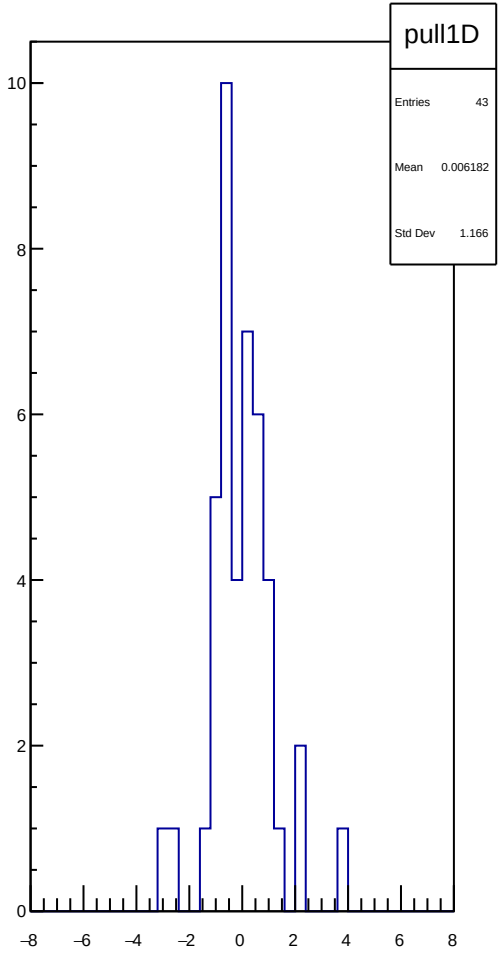
6204. 2
6204. 3
6204. 4
6204. 5

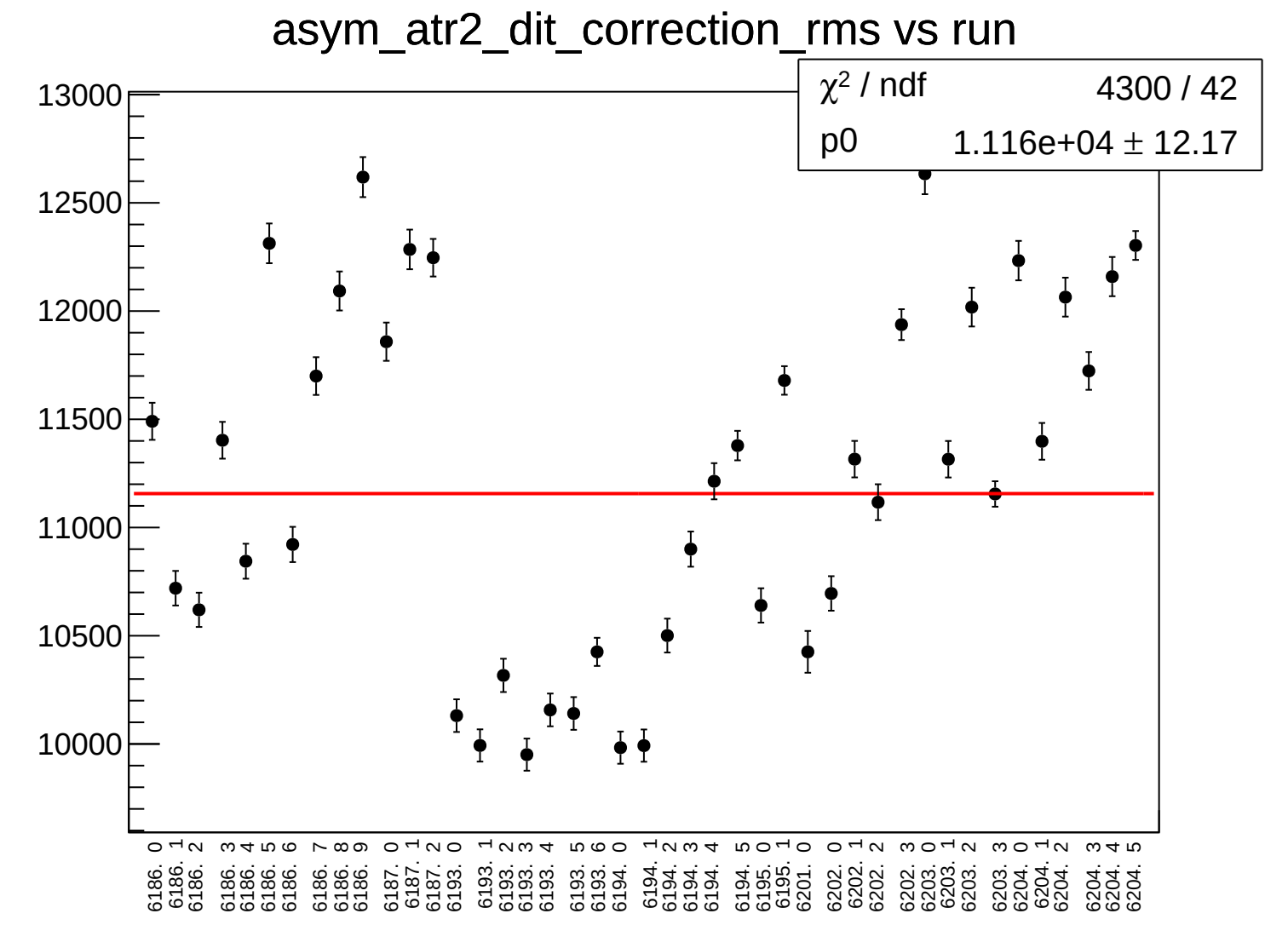

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 50.68 / 42
p0 −3296 ± 3998
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 653.1
Std Dev 0
3
2
1
0
−1
−2

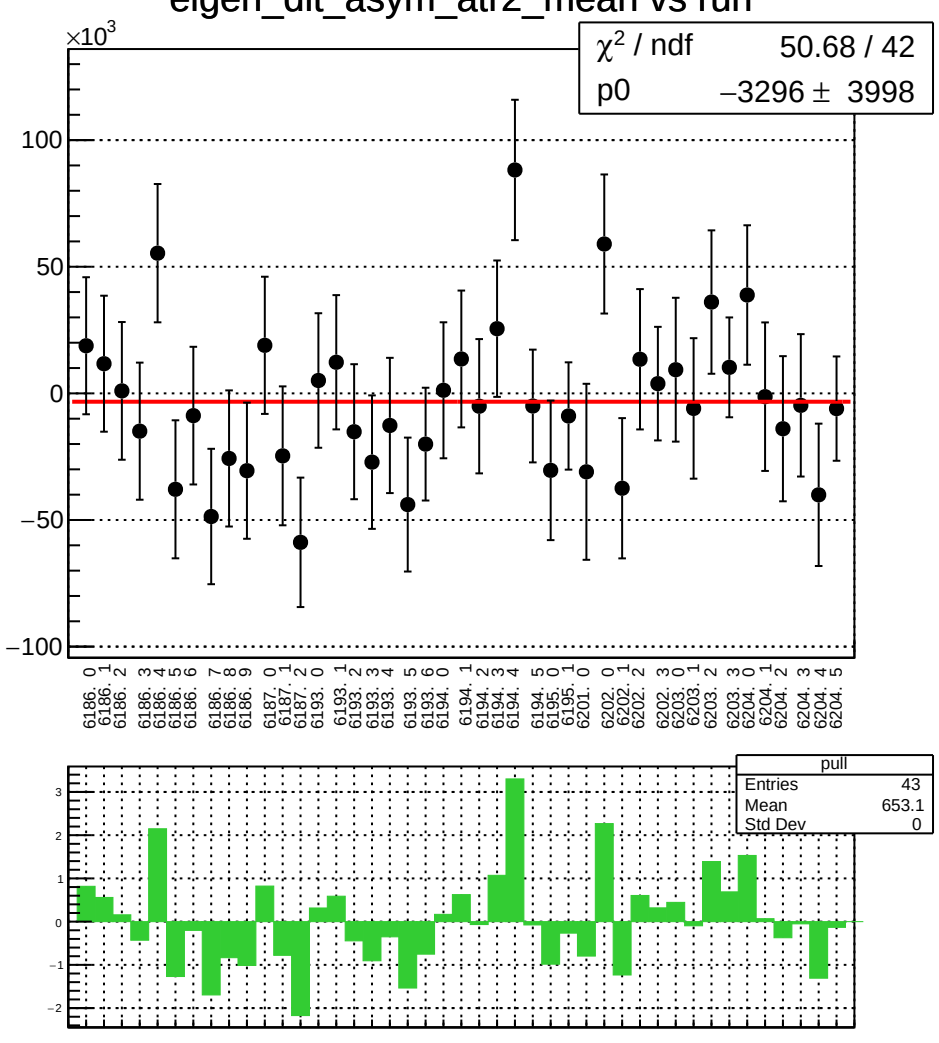

pull1D
Entries 43
Mean 0.002772
Std Dev 1.086
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

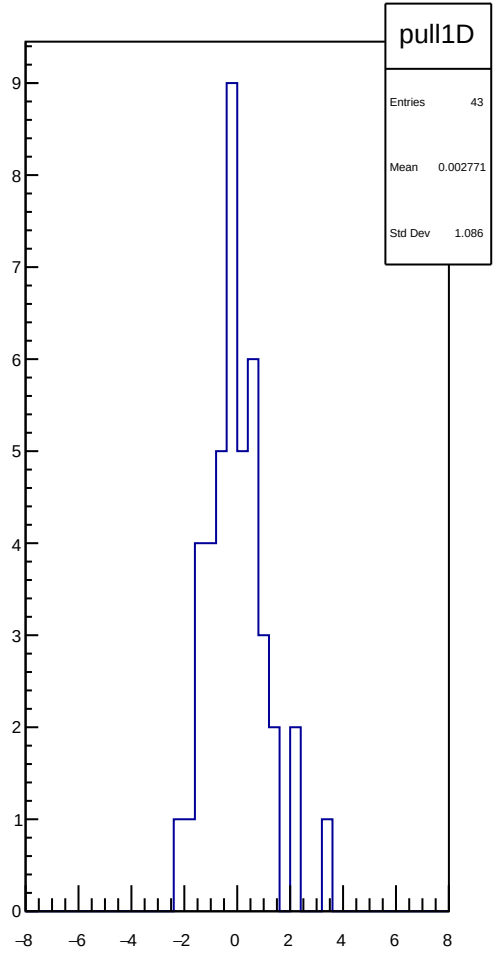

dit_asym_atr2_rms vs run
χ² / ndf 485.6 / 42
p0 2598 ± 2.827
2800
2750
2700
2650
2600
2550
2500
2450
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

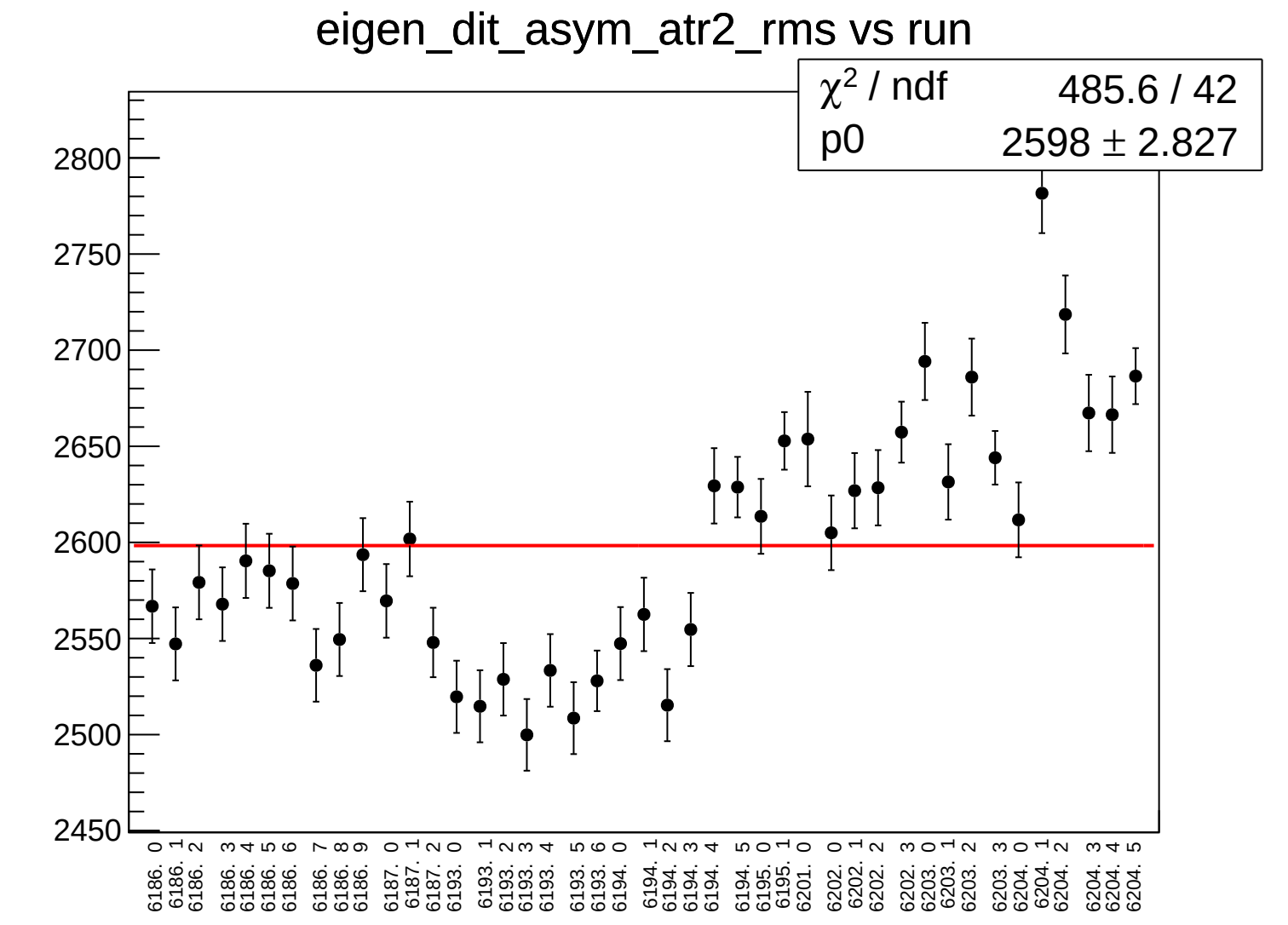

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 58.49 / 42
p0 1.495e+04 ± 1.721e+04
600
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 215.7
Std Dev 0
4
3
2
1
0
−1
−2
−3

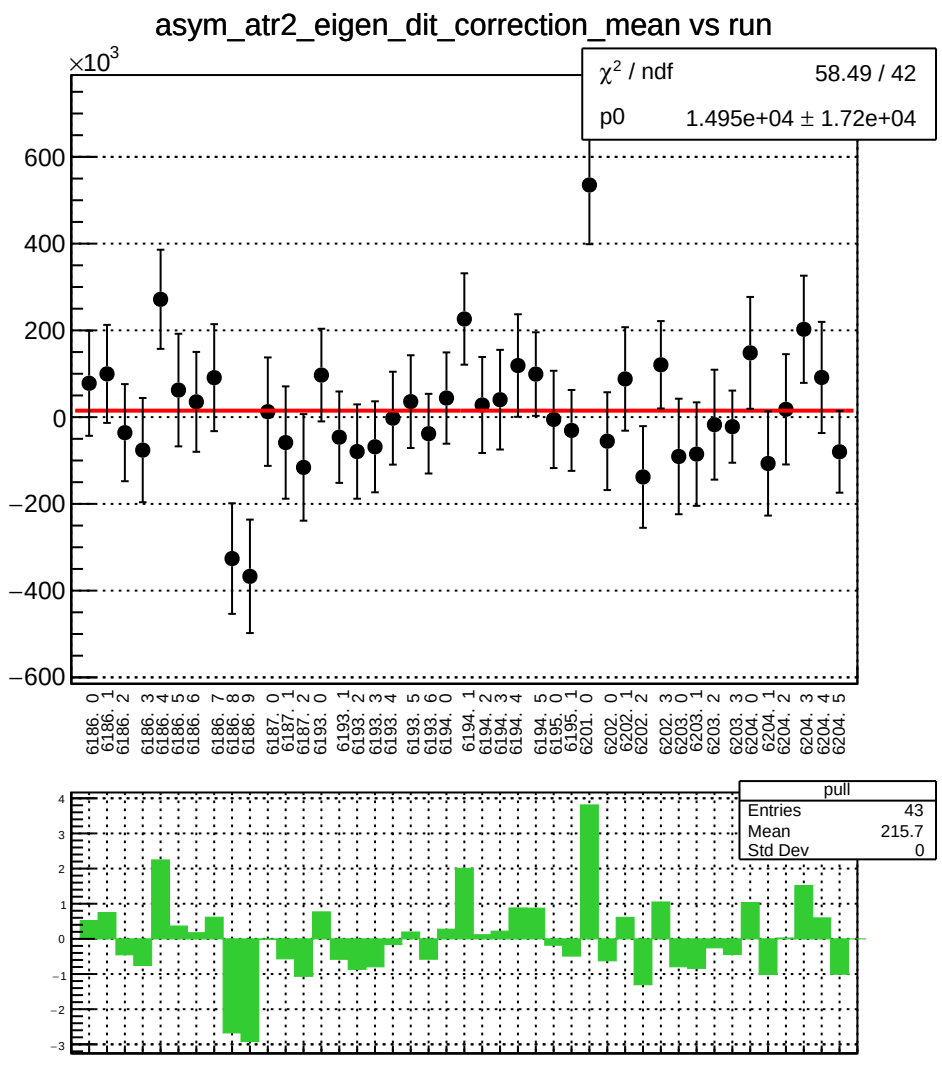

pull1D
Entries 43
Mean 0.006182
Std Dev 1.166
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

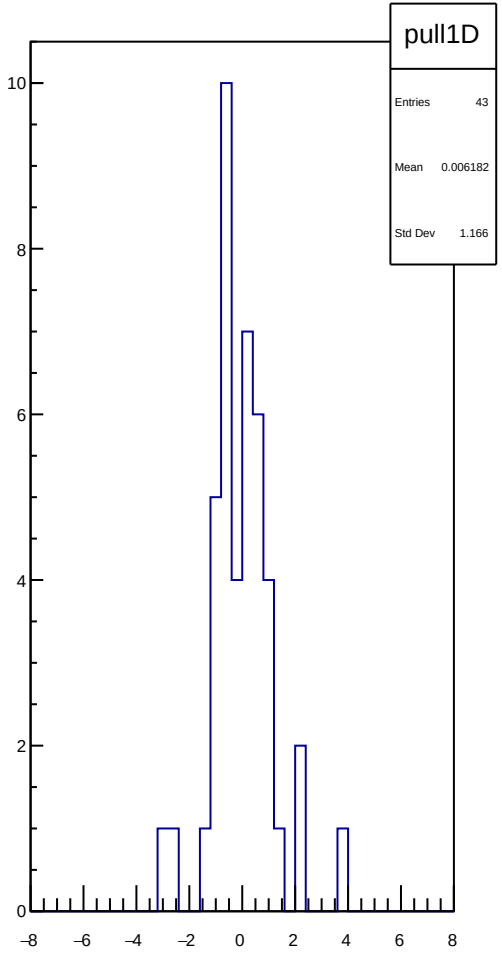

asym_atr2_dit_correction_rms vs run
χ² / ndf 4300 / 42
p0 1.116e+04 ± 12.17
13000
12500
12000
11500
11000
10500
10000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

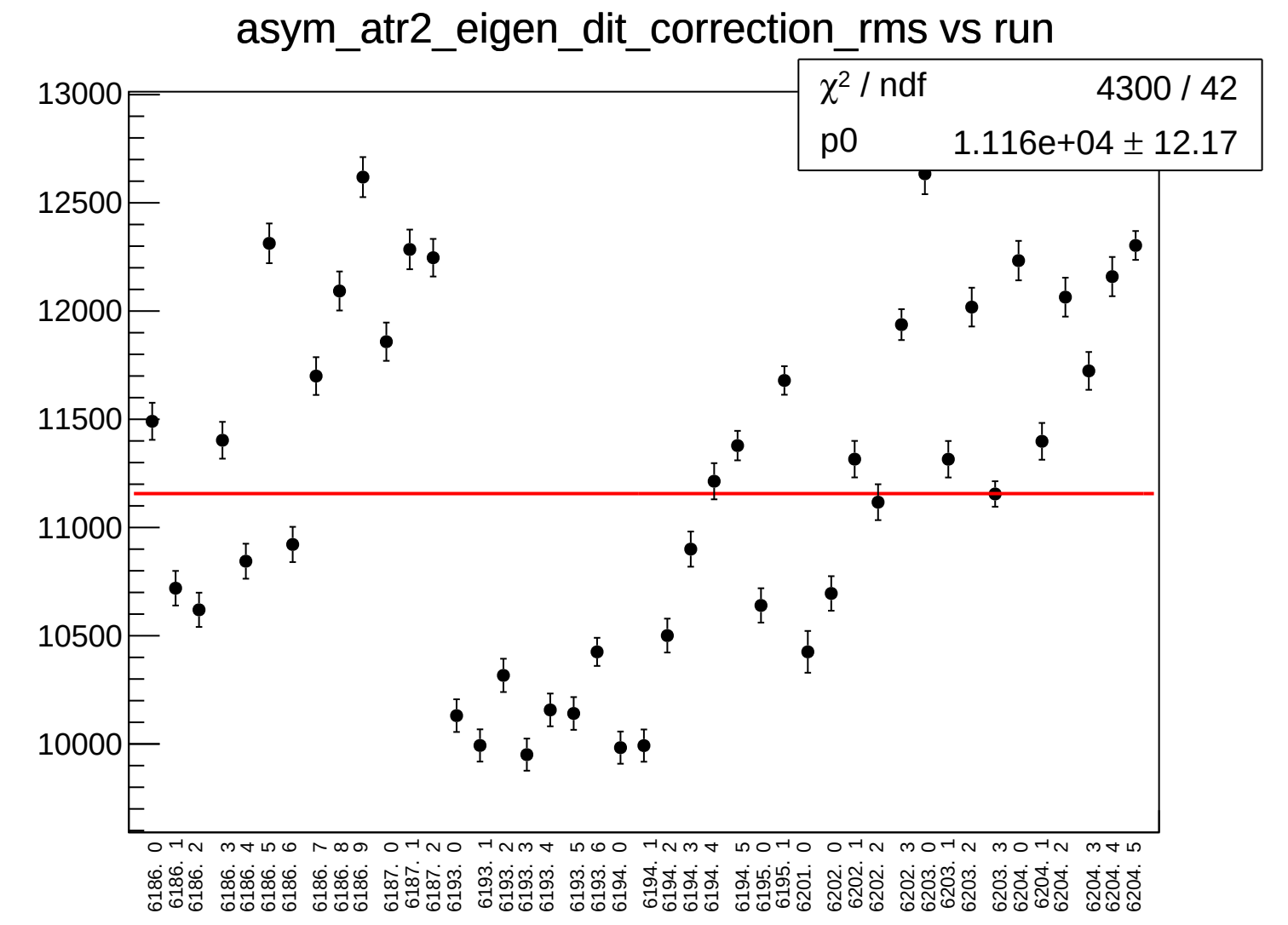

eigen_dit_asym_atr2_mean vs run
χ² / ndf 50.68 / 42
p0 −3296 ± 3998
×10³
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 653.1
Std Dev 0
3
2
1
0
−1
−2

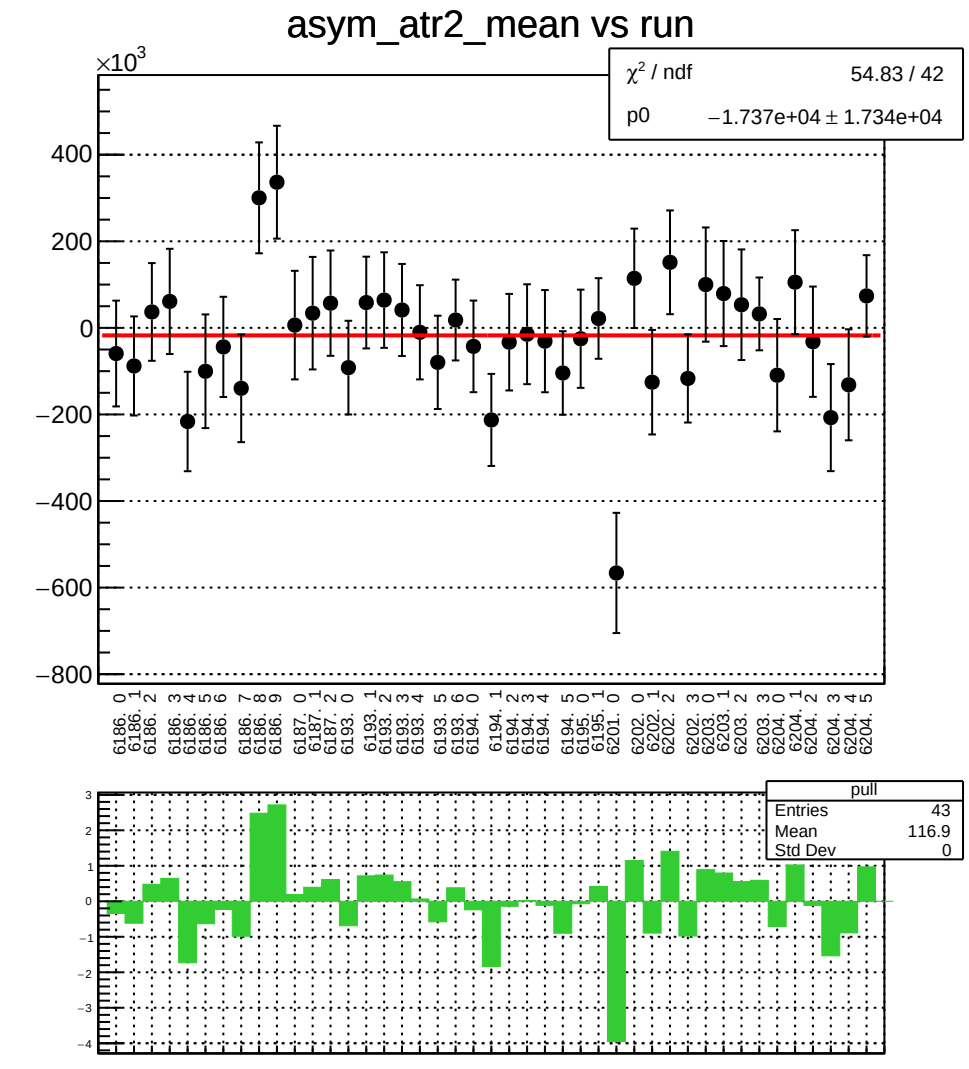

pull1D
Entries 43
Mean 0.002771
Std Dev 1.086
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

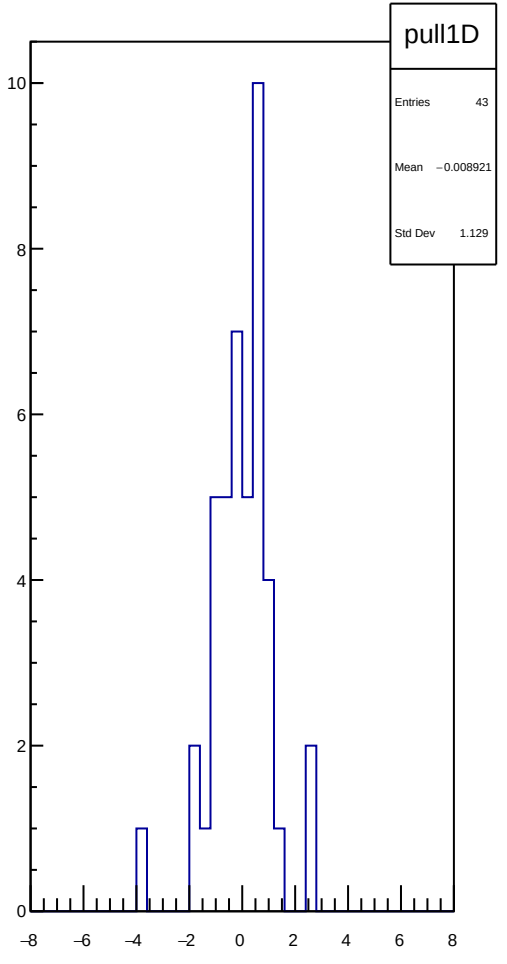

eigen_dit_asym_atr2_rms vs run
χ² / ndf 485.6 / 42
p0 2598 ± 2.827
2800
2750
2700
2650
2600
2550
2500
2450
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

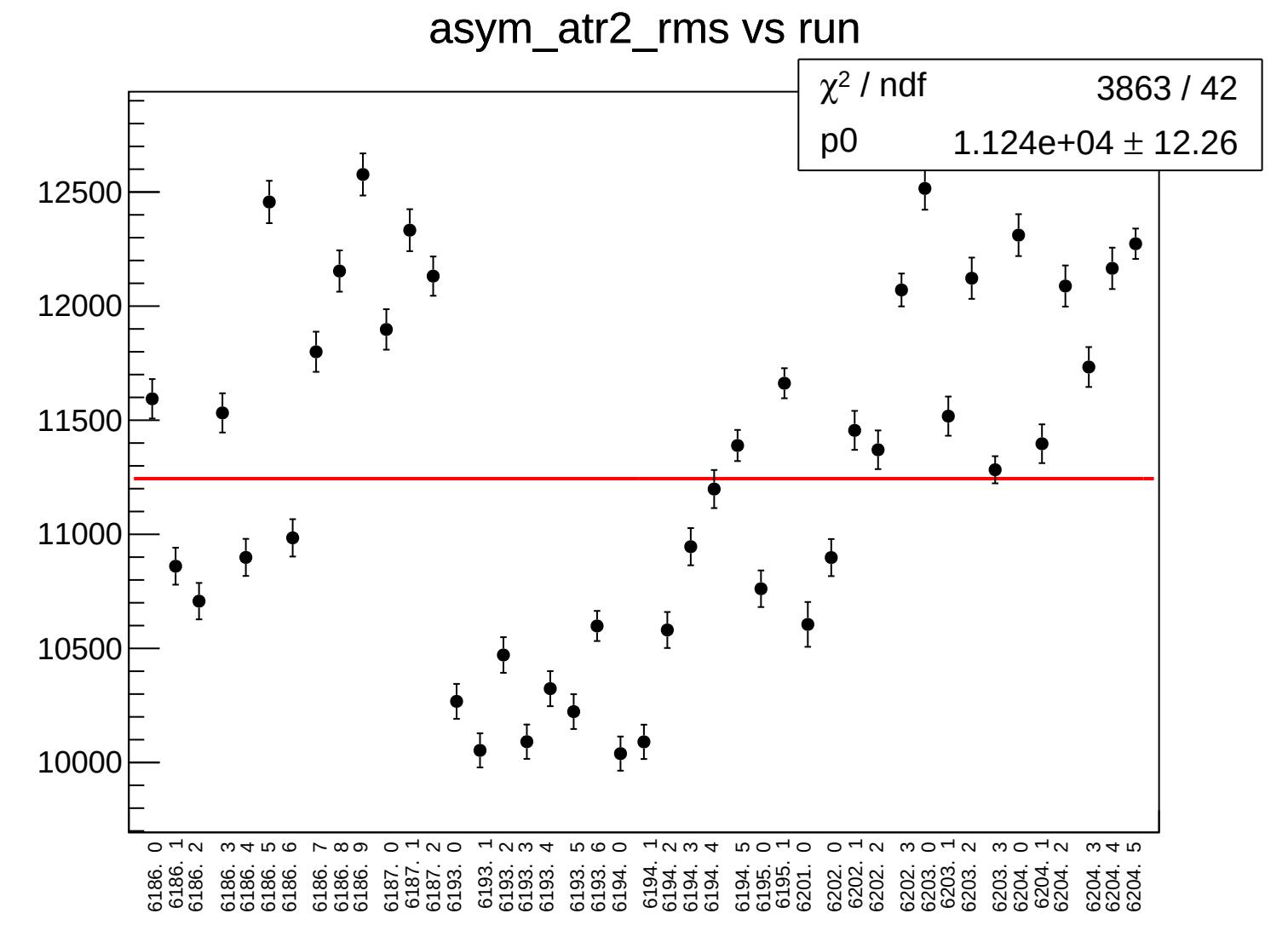

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 58.49 / 42
p0 1.495e+04 ± 1.72e+04
600
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 215.7
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.006182
Std Dev 1.166
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 4300 / 42
p0 1.116e+04 ± 12.17
13000
12500
12000
11500
11000
10500
10000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr2_mean vs run
×10^3
χ² / ndf 54.83 / 42
p0 −1.737e+04 ± 1.734e+04
400
200
0
−200
−400
−600
−800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 116.9
Std Dev 0
3
2
1
0
−1
−2
−3
−4


pull1D
Entries 43
Mean −0.008921
Std Dev 1.129
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_rms vs run
χ² / ndf 3863 / 42
p0 1.124e+04 ± 12.26
12500
12000
11500
11000
10500
10000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 3
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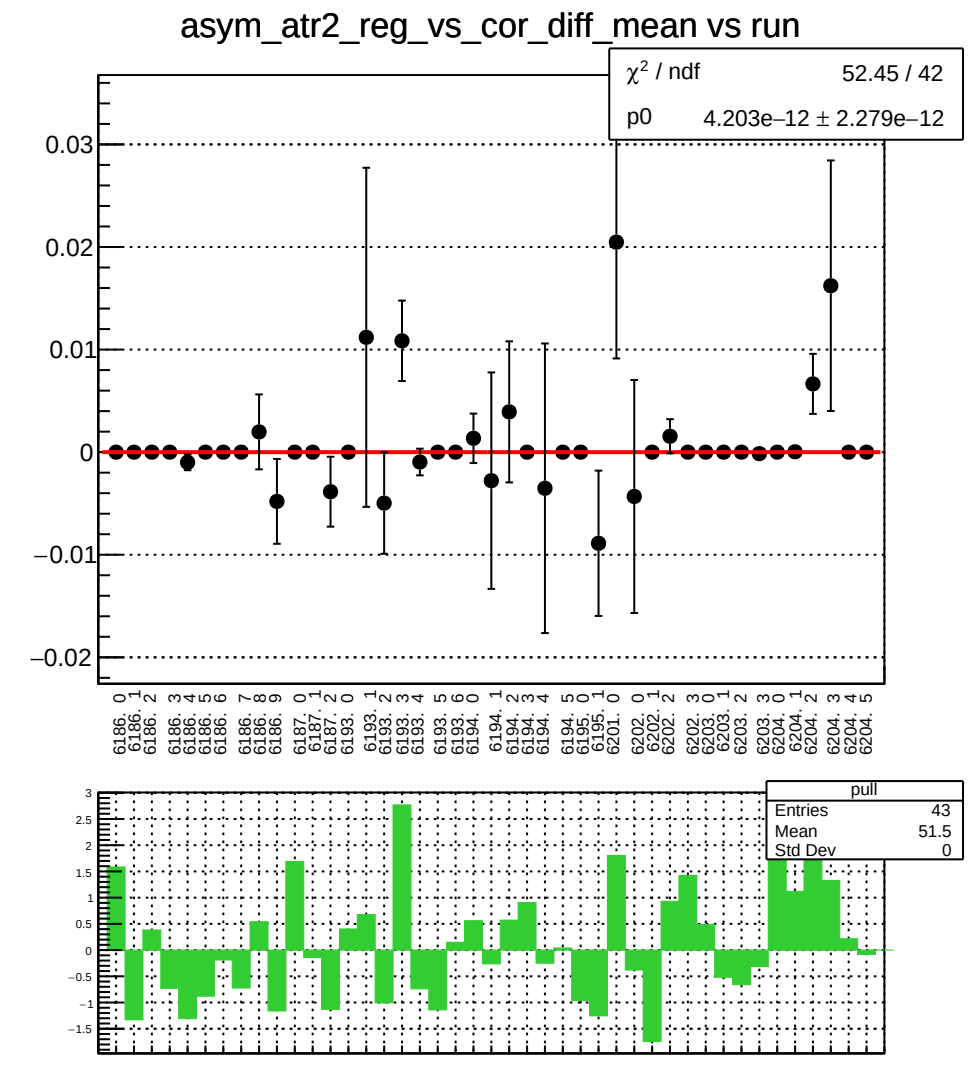
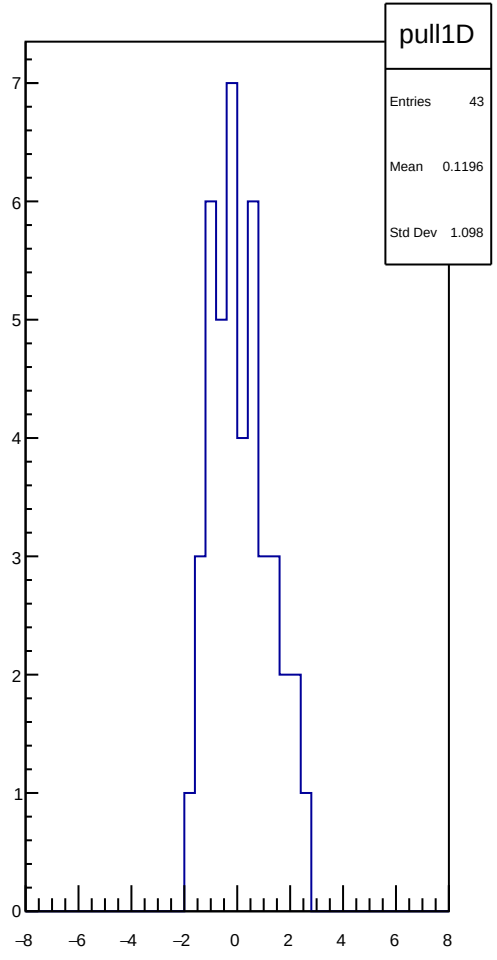
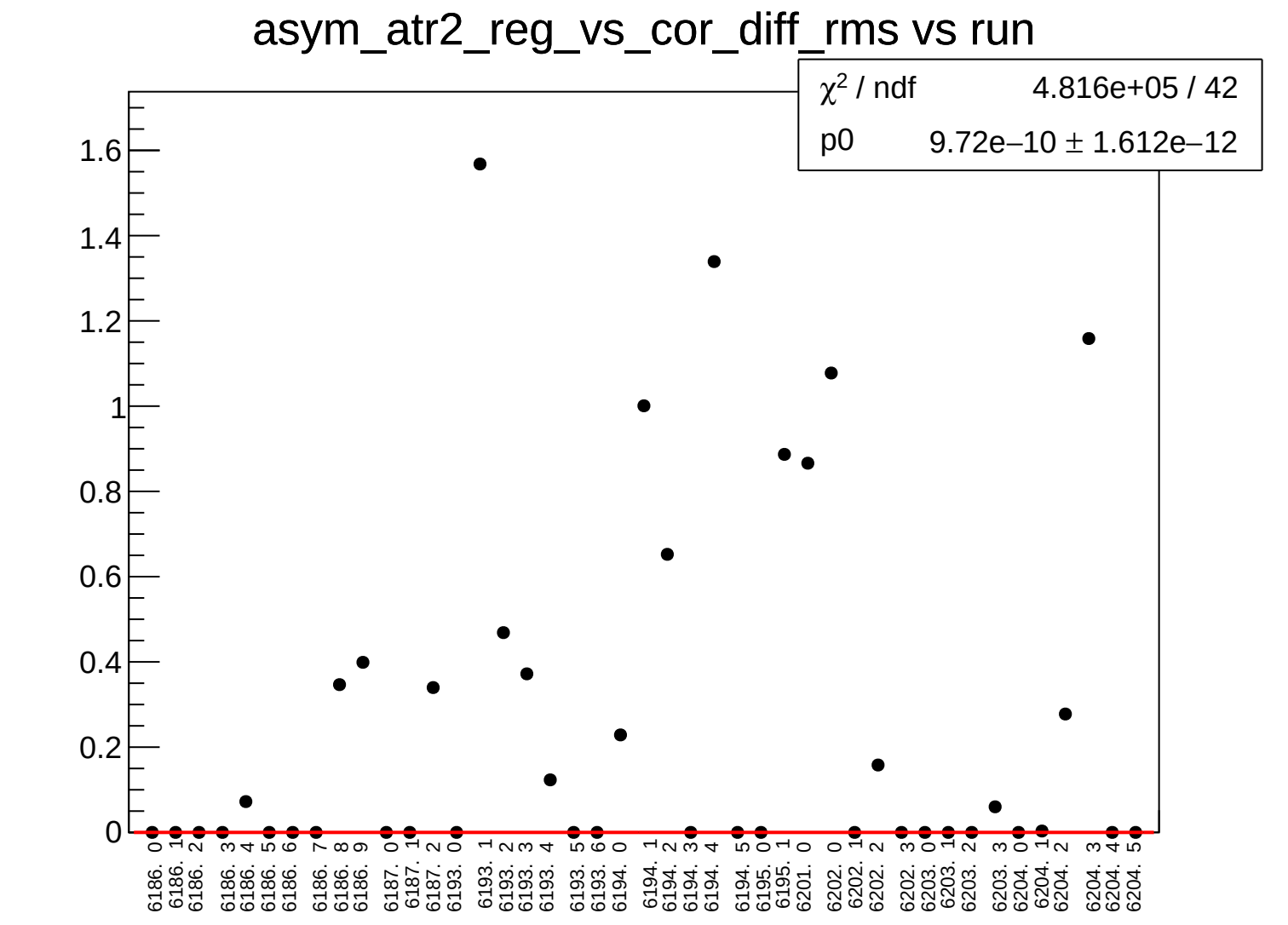
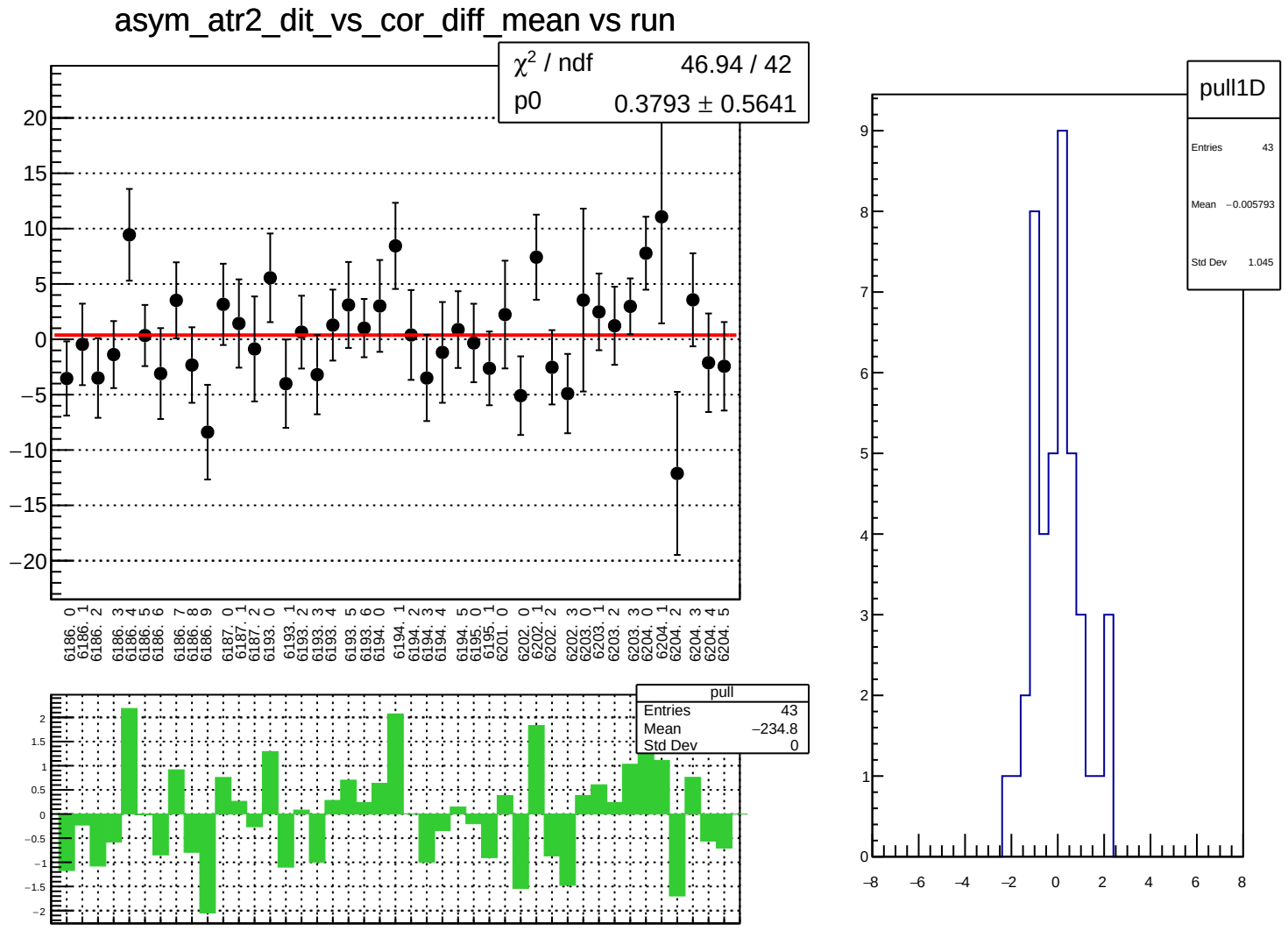
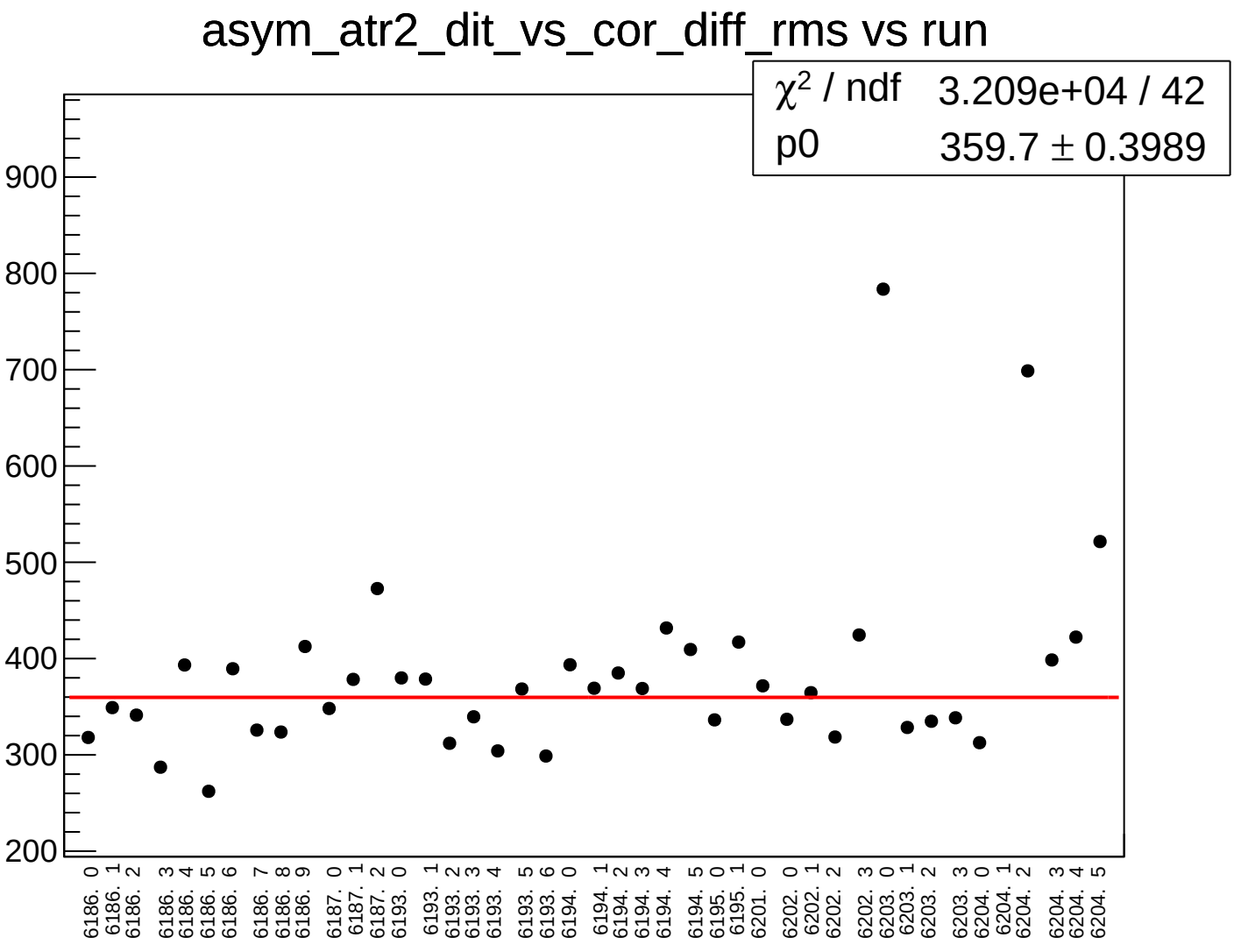
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 52.45 / 42
p0 4.203e−12 ± 2.279e−12
0.03
0.02
0.01
0
−0.01
−0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 51.5
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 43
Mean 0.1196
Std Dev 1.098
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 4.816e+05 / 42
p0 9.72e−10 ± 1.612e−12
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 46.94 / 42
p0 0.3793 ± 0.5641
pull
Entries 43
Mean −234.8
Std Dev 0
pull1D
Entries 43
Mean −0.005793
Std Dev 1.045


asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.209e+04 / 42
p0 359.7 ± 0.3989
900
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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6204. 2
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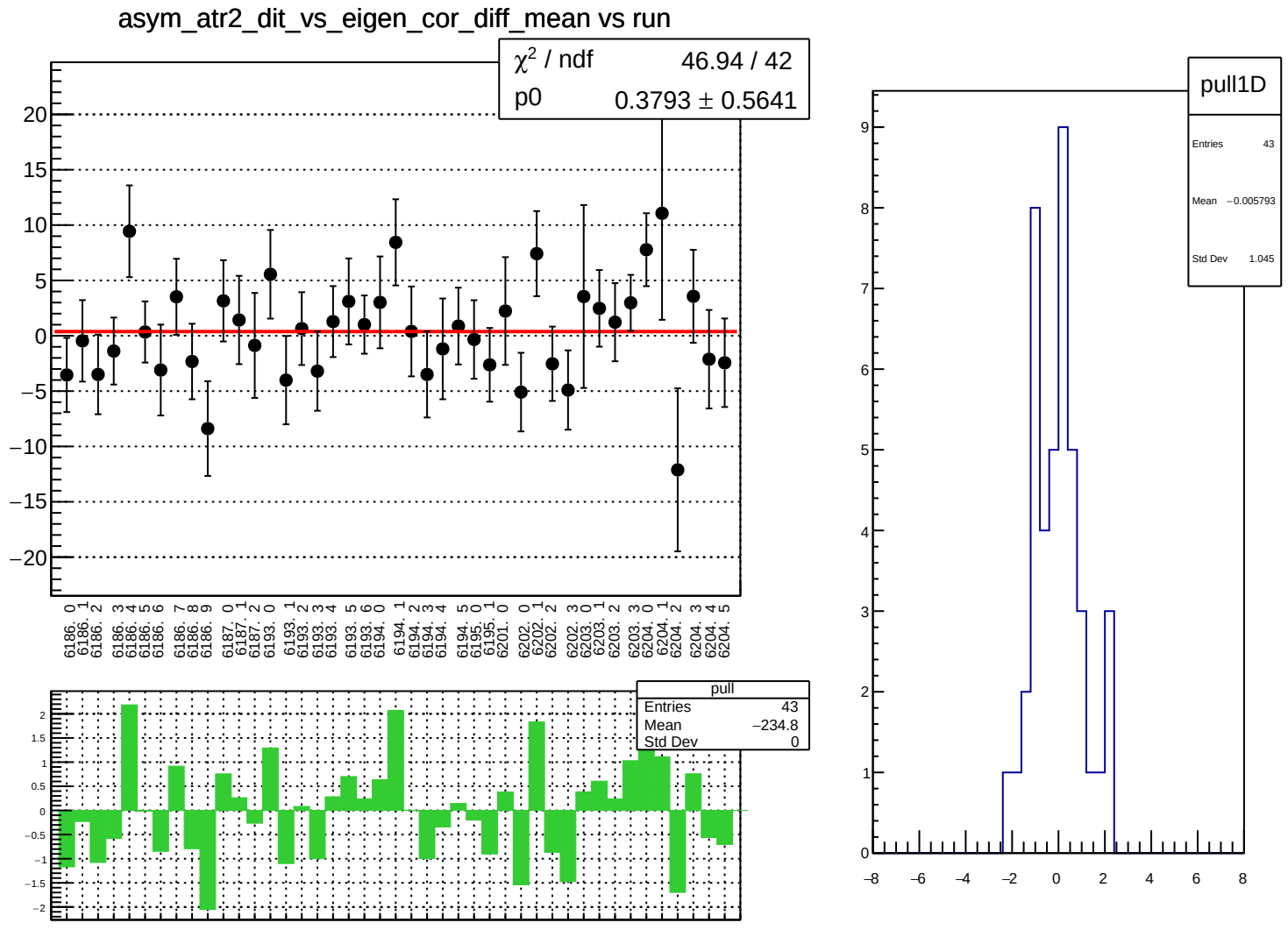
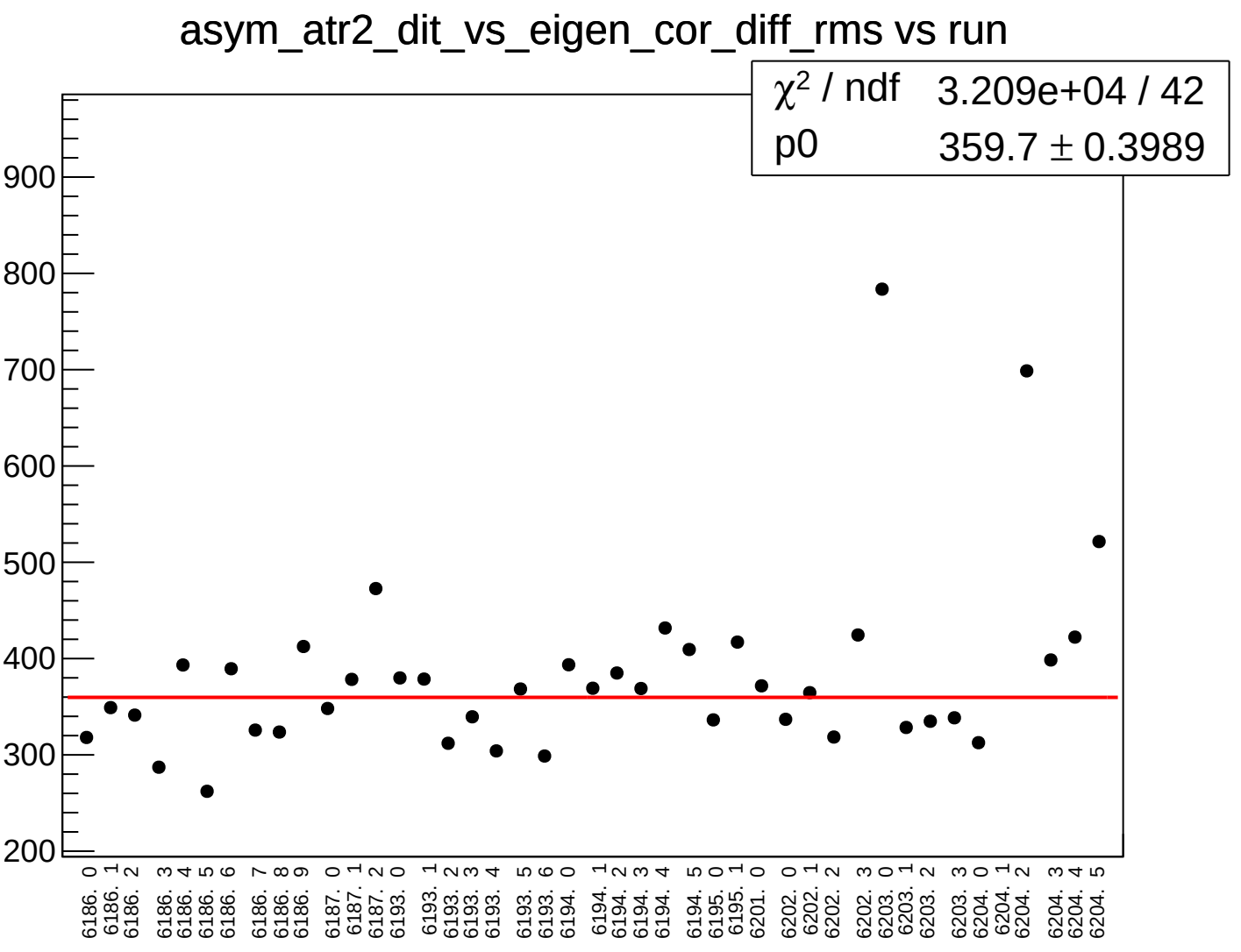
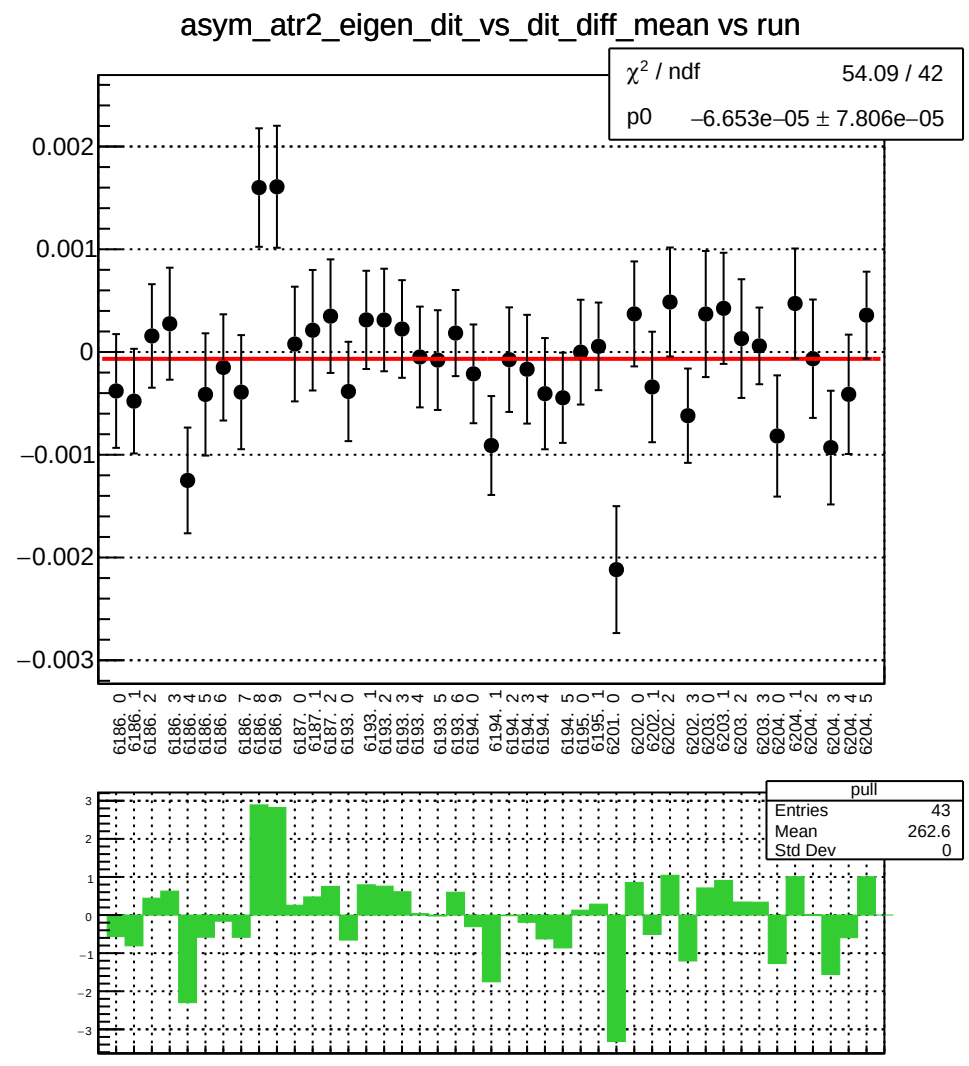
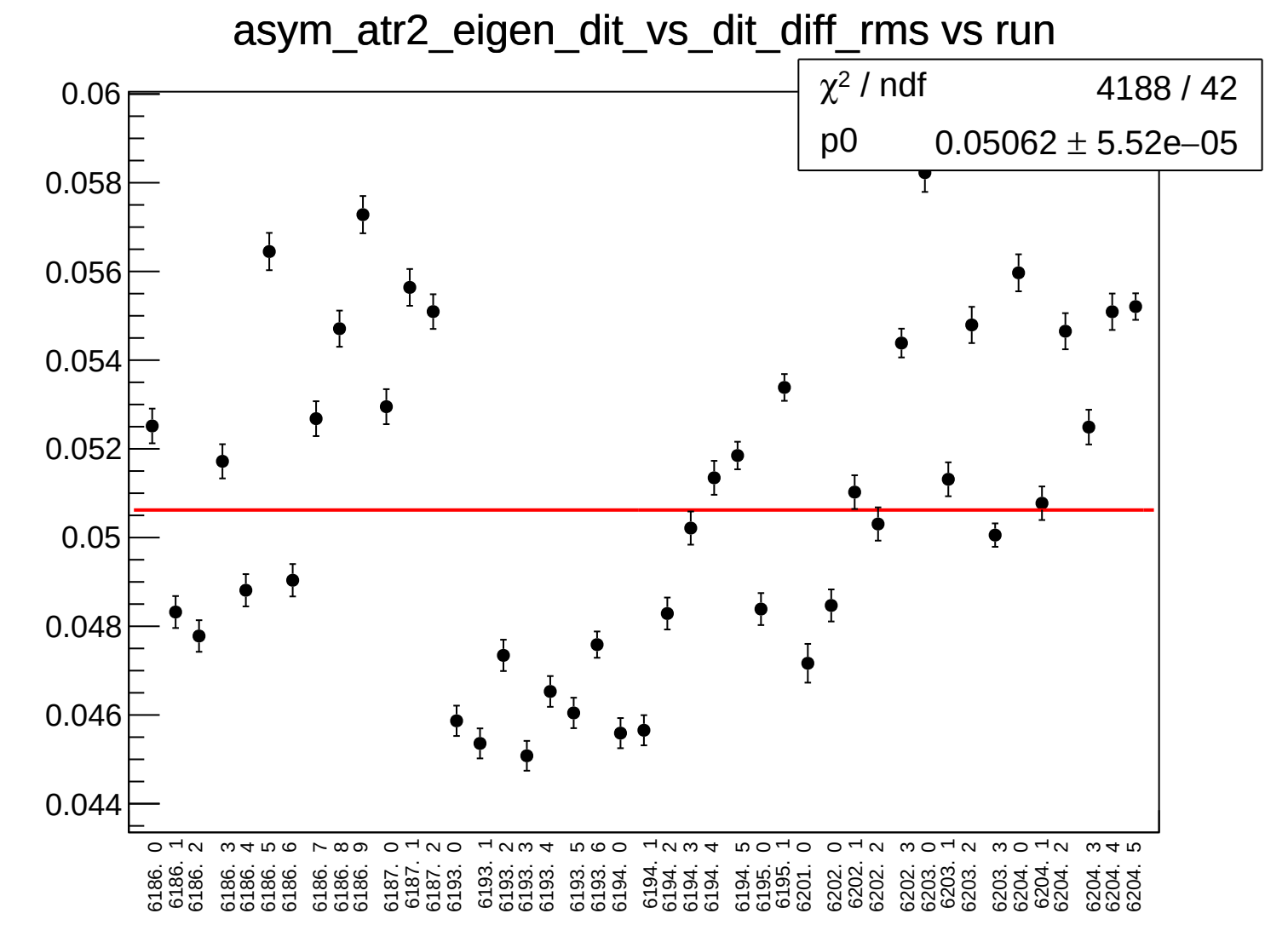
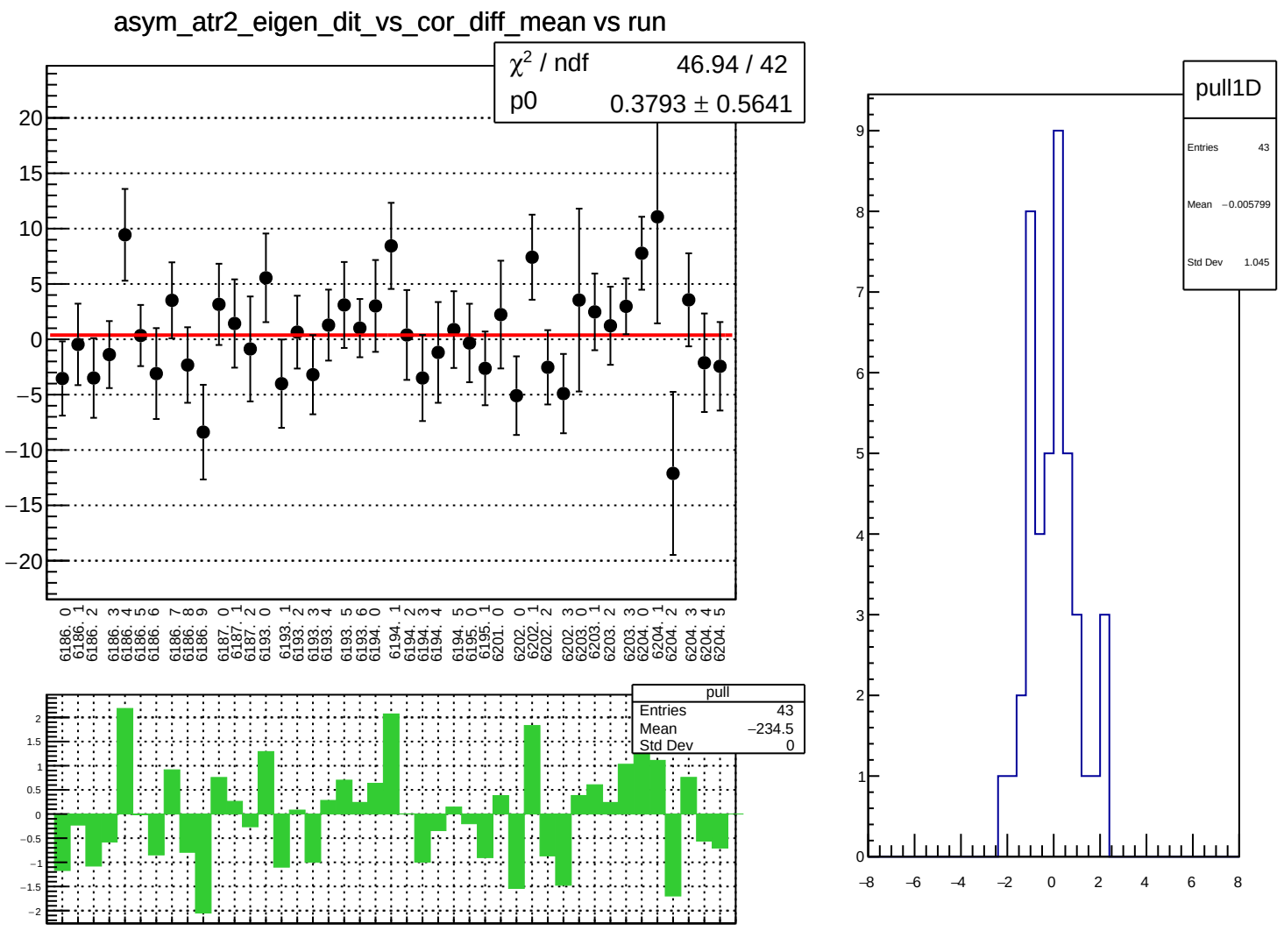
6204. 5

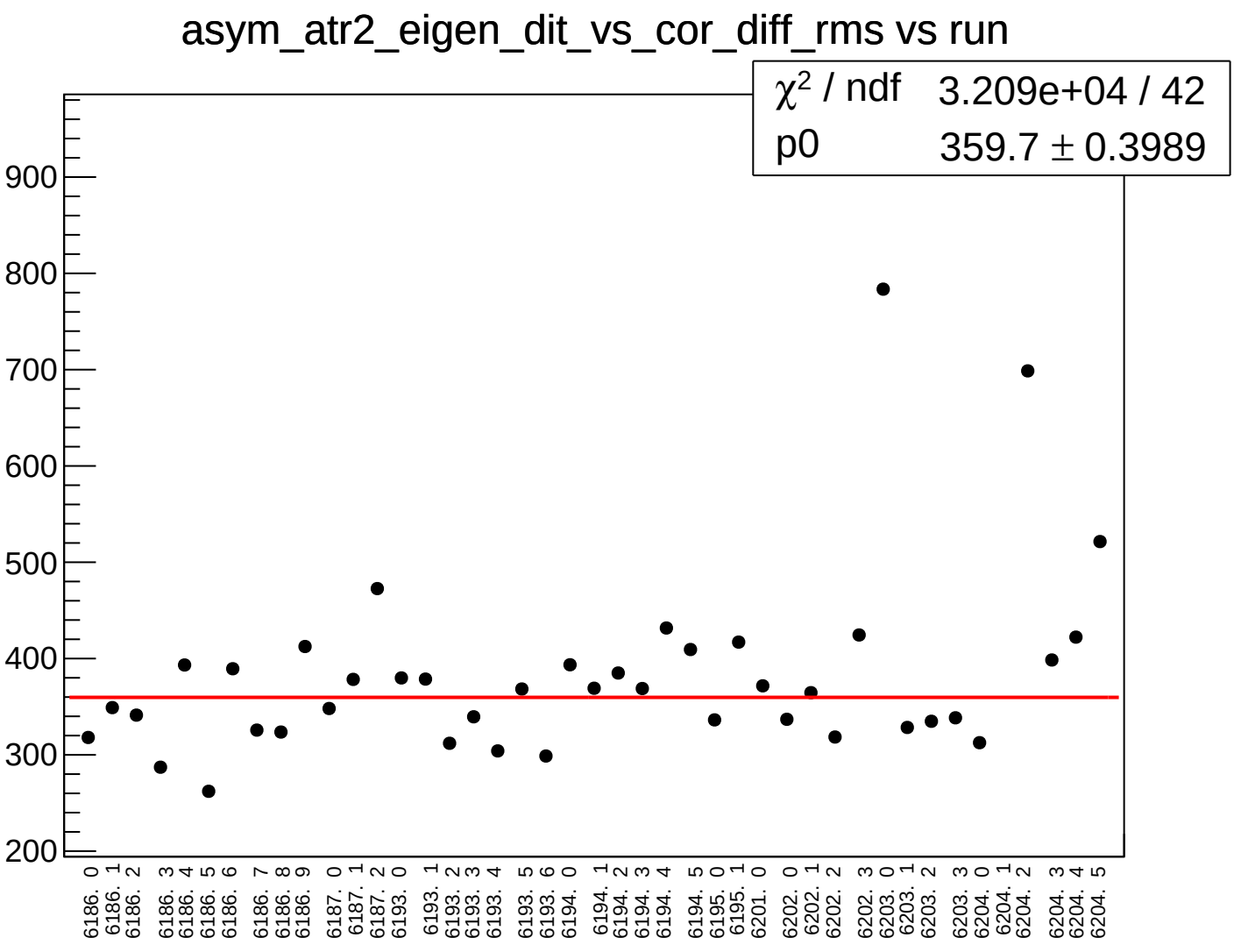

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.94 / 42
p0 0.3793 ± 0.5641
pull
Entries 43
Mean −234.8
Std Dev 0
pull1D
Entries 43
Mean −0.005793
Std Dev 1.045

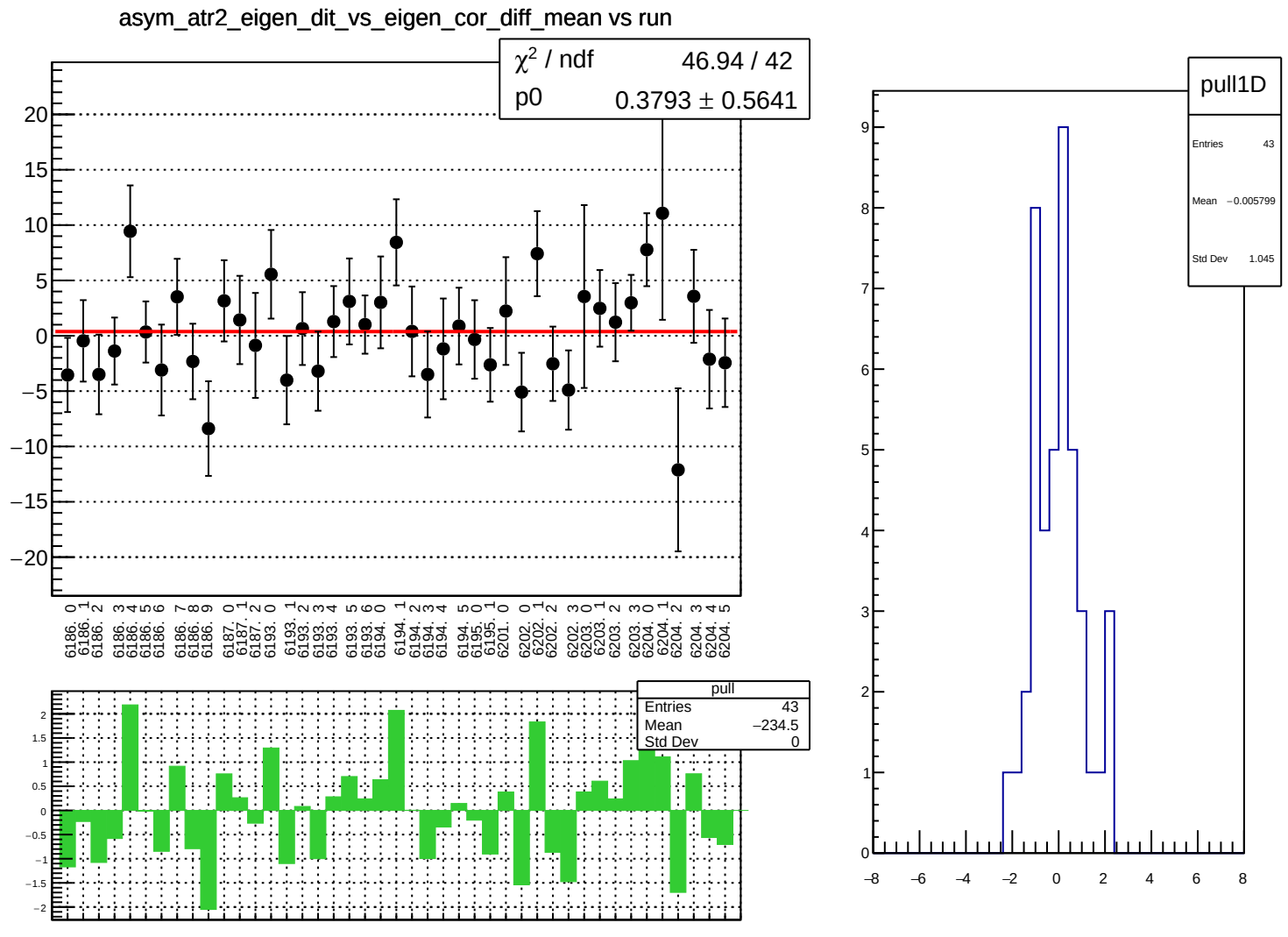

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.209e+04 / 42
p0 359.7 ± 0.3989
900
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

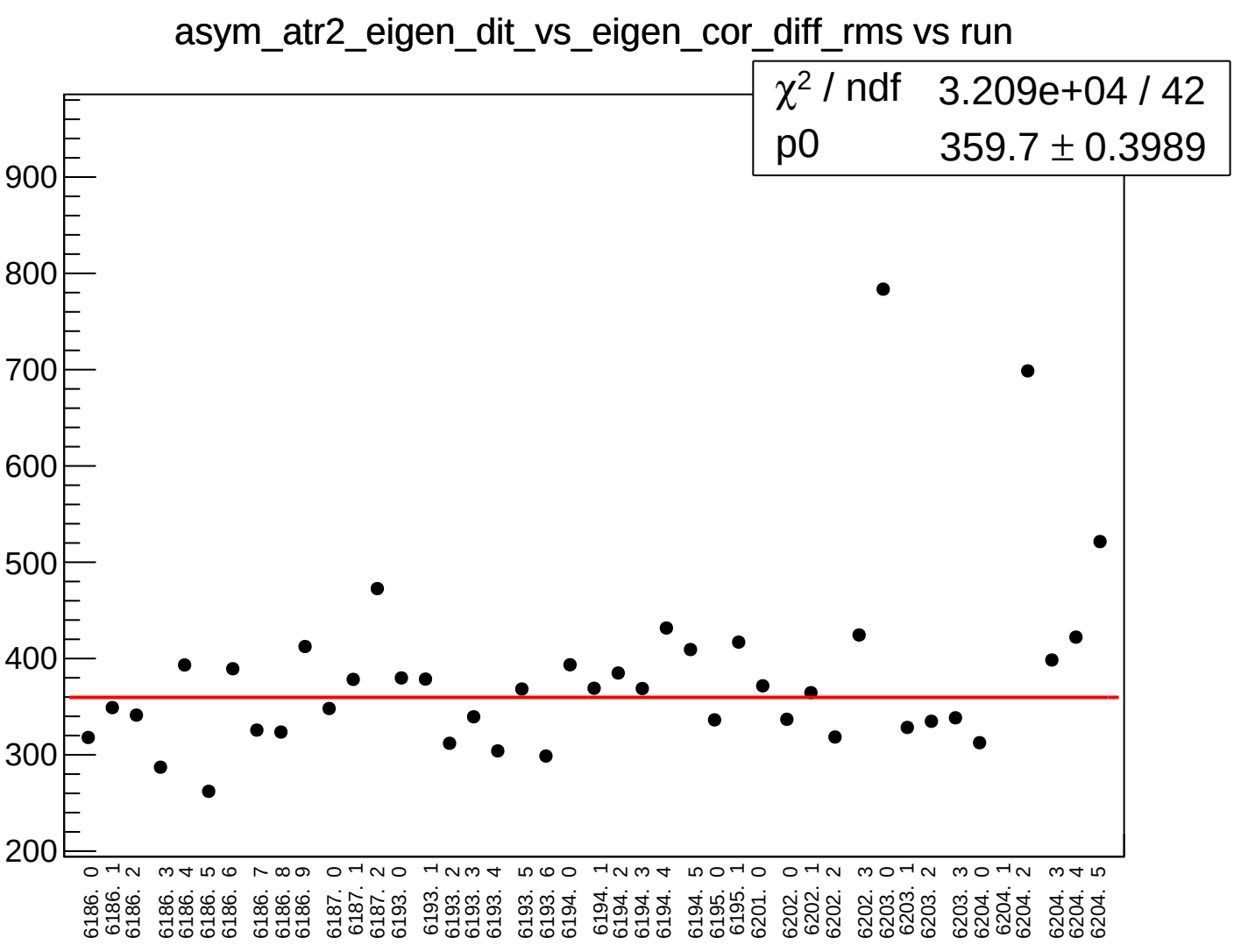

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 54.09 / 42
p0 −6.653e−05 ± 7.806e−05
0.002
0.001
0
−0.001
−0.002
−0.003
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 262.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.004628
Std Dev 1.122
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

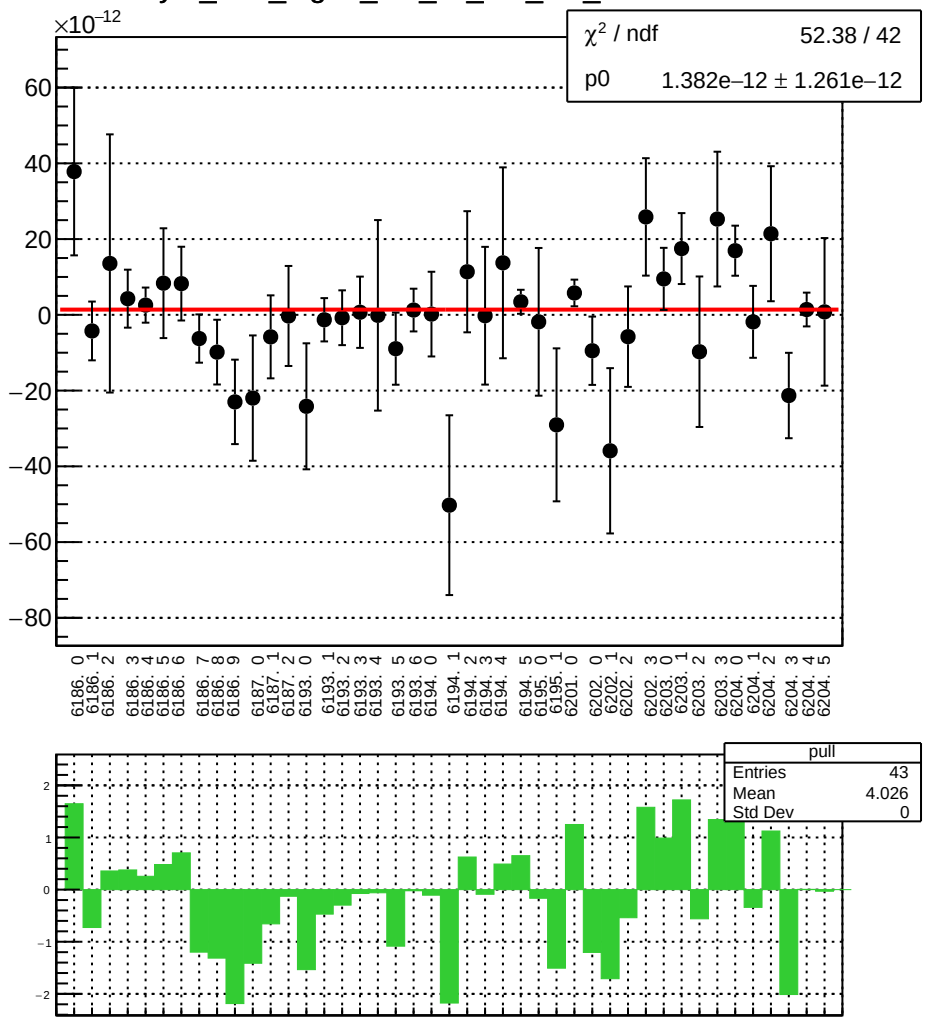

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4188 / 42
p0 0.05062 ± 5.52e−05
0.06
0.058
0.056
0.054
0.052
0.05
0.048
0.046
0.044
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

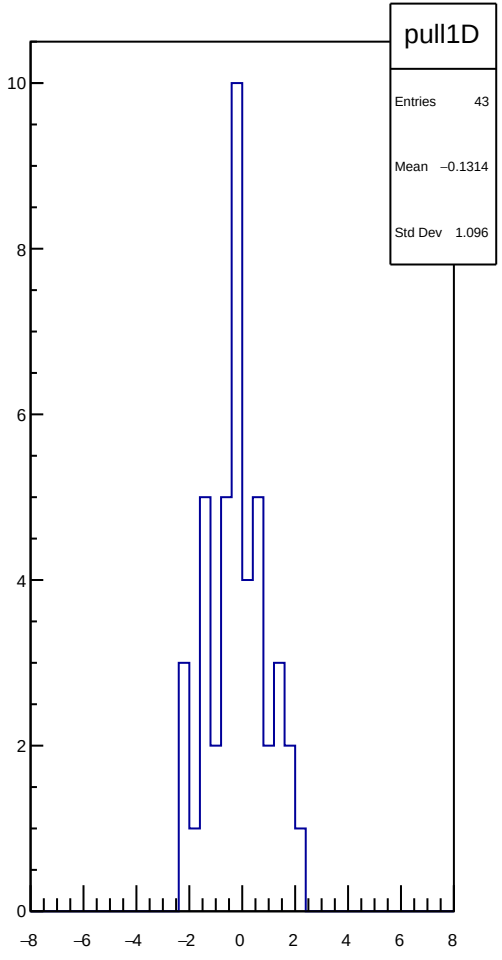

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.94 / 42
p0 0.3793 ± 0.5641
pull
Entries 43
Mean −234.5
Std Dev 0
pull1D
Entries 43
Mean −0.005799
Std Dev 1.045

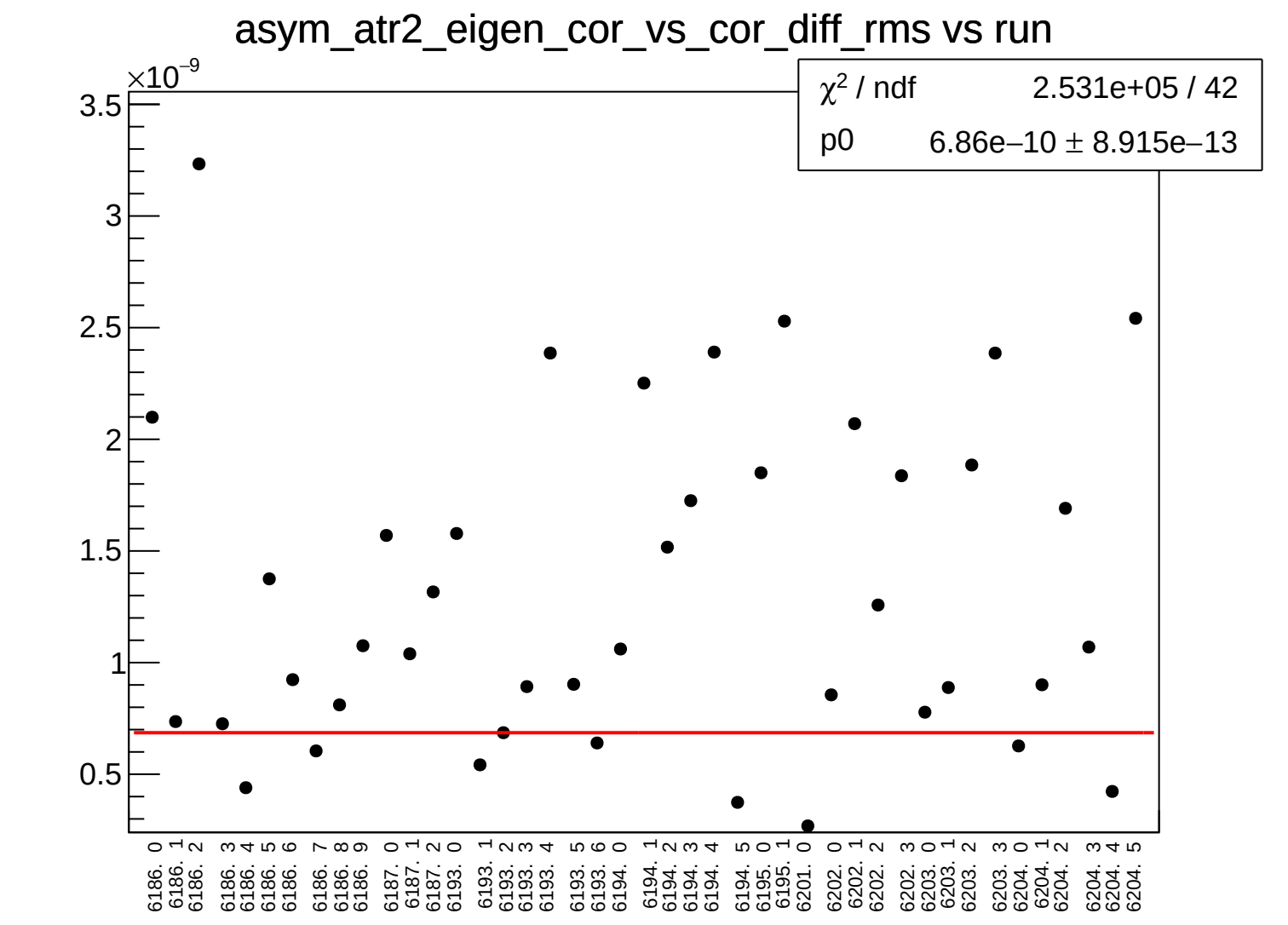

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.209e+04 / 42
p0 359.7 ± 0.3989
900
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

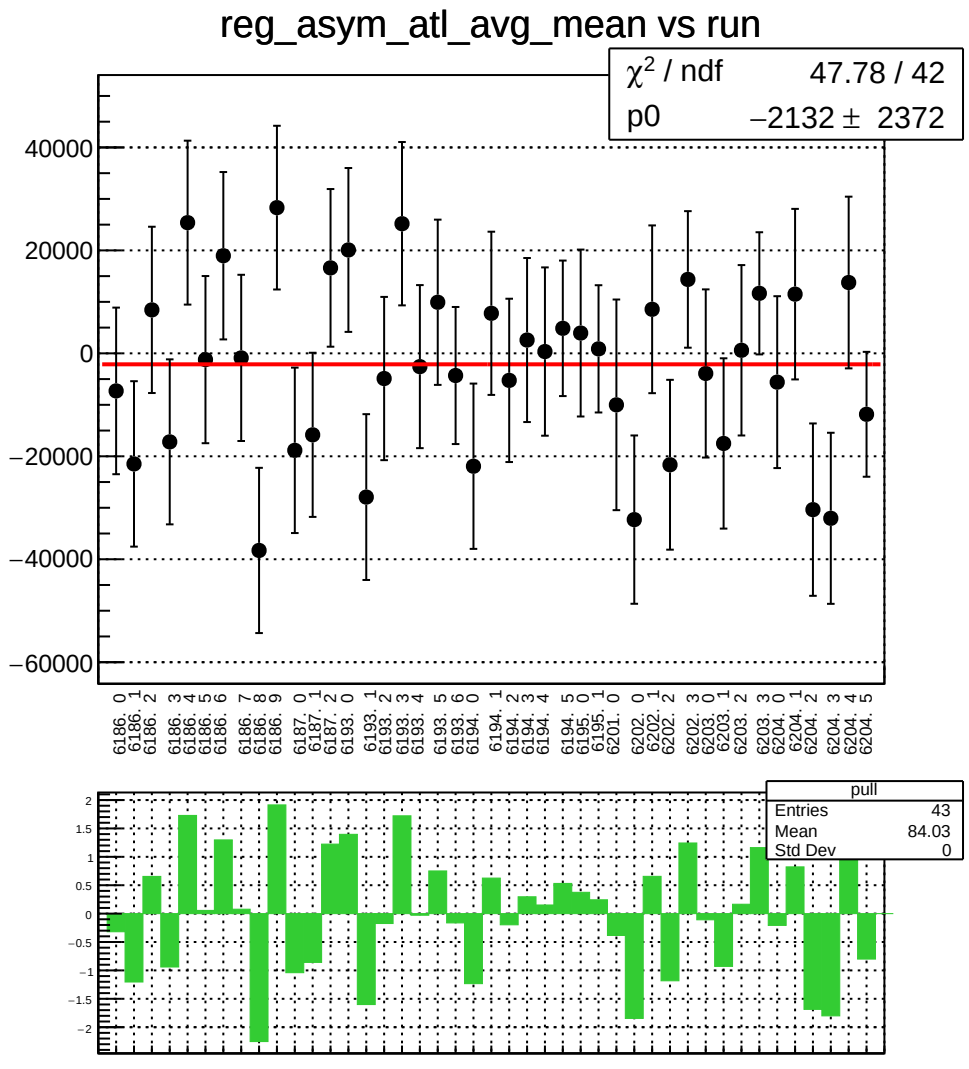

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.94 / 42
p0 0.3793 ± 0.5641
pull
Entries 43
Mean −234.5
Std Dev 0
pull1D
Entries 43
Mean −0.005799
Std Dev 1.045

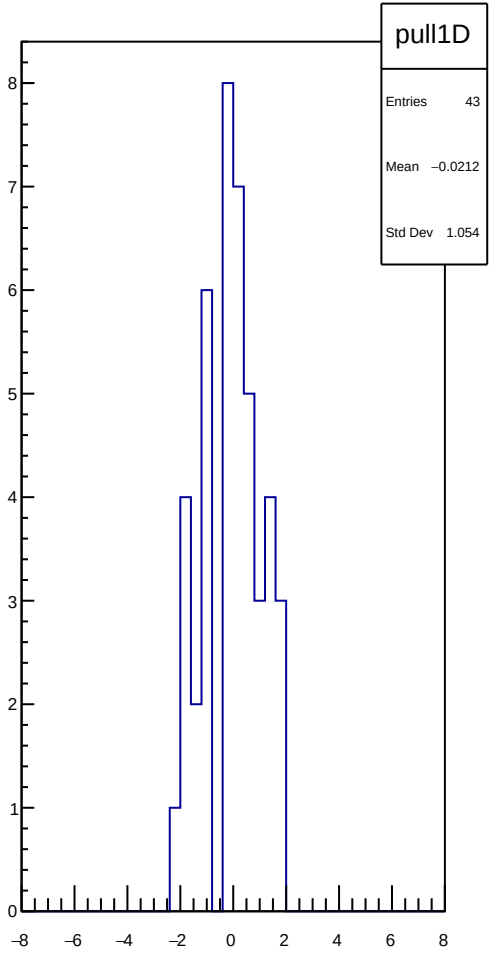

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.209e+04 / 42
p0 359.7 ± 0.3989
900
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

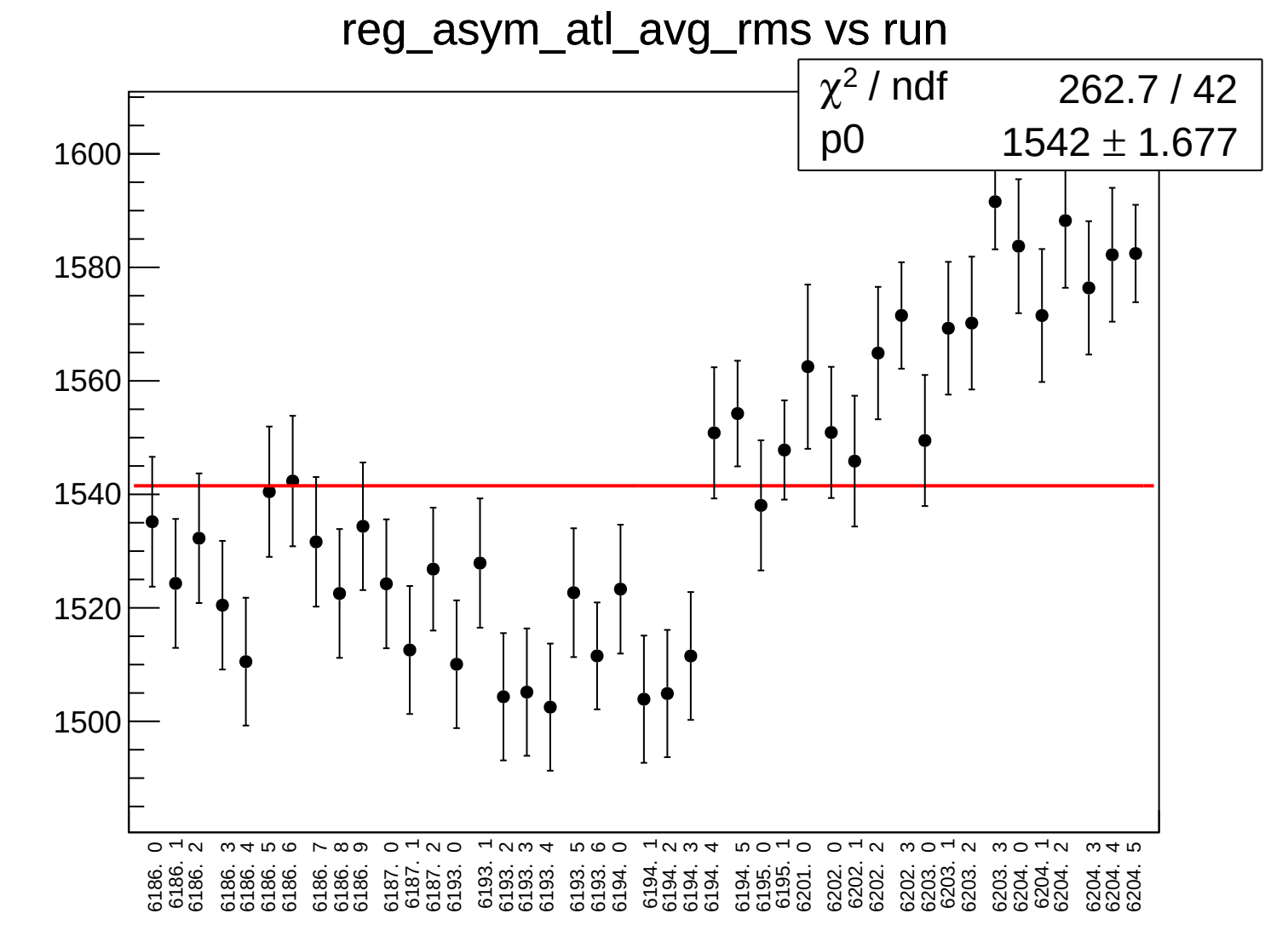

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 52.38 / 42
p0 1.382e−12 ± 1.261e−12
60
40
20
0
−20
−40
−60
−80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.026
Std Dev 0
2
1
0
−1
−2

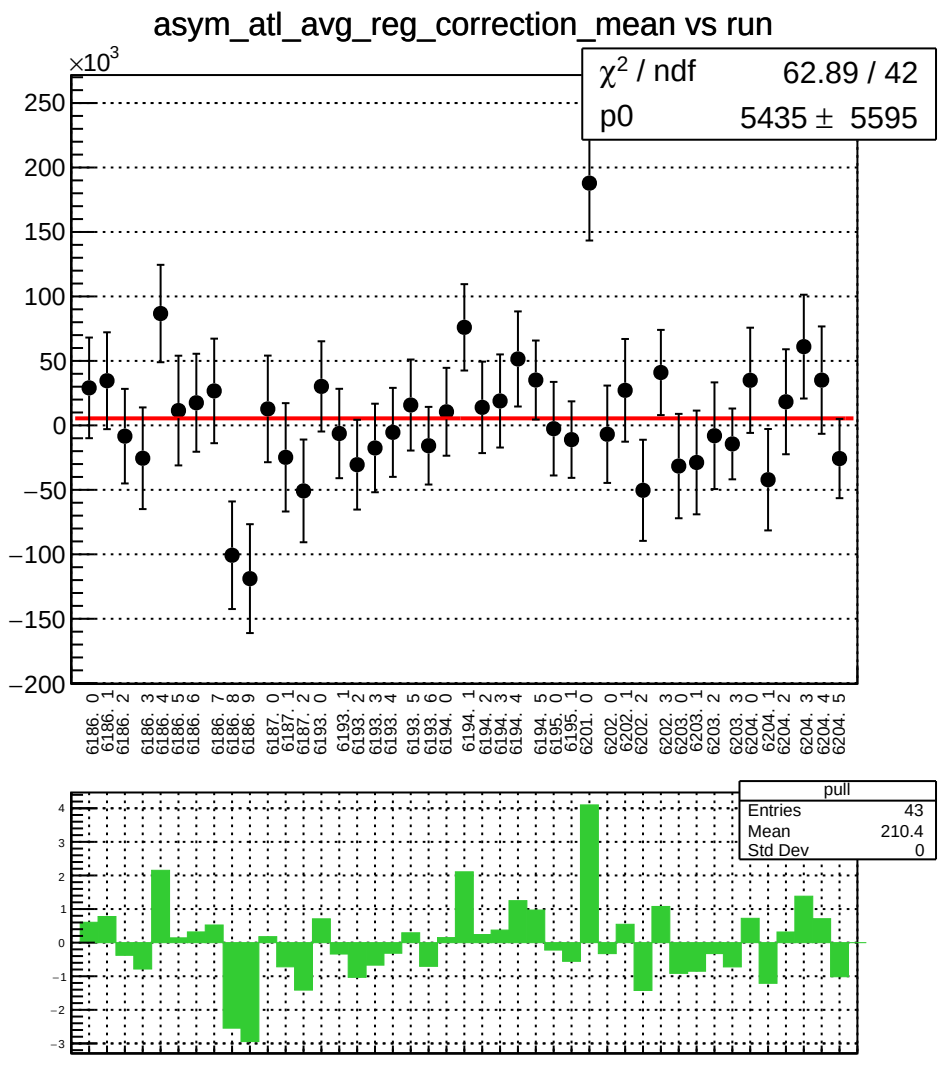

pull1D
Entries 43
Mean −0.1314
Std Dev 1.096
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

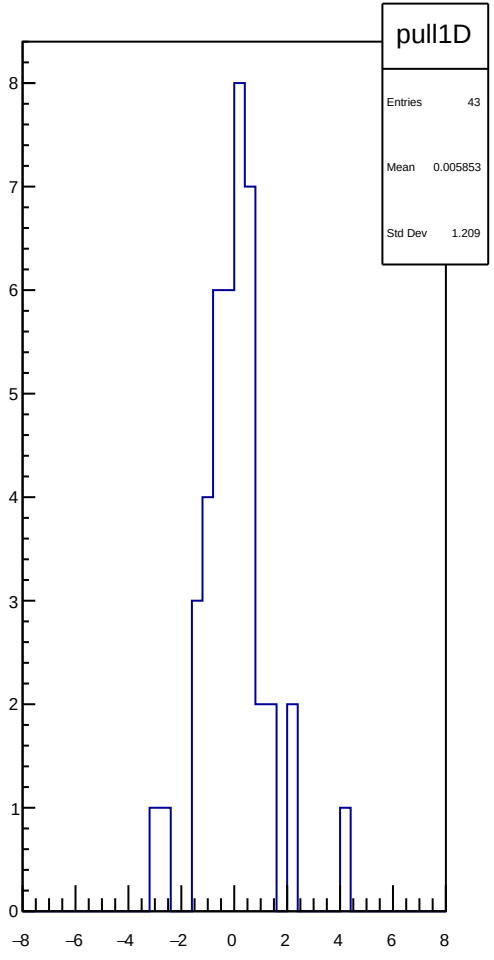

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.531e+05 / 42
p0 6.86e−10 ± 8.915e−13
3.5
3
2.5
2
1.5
1
0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

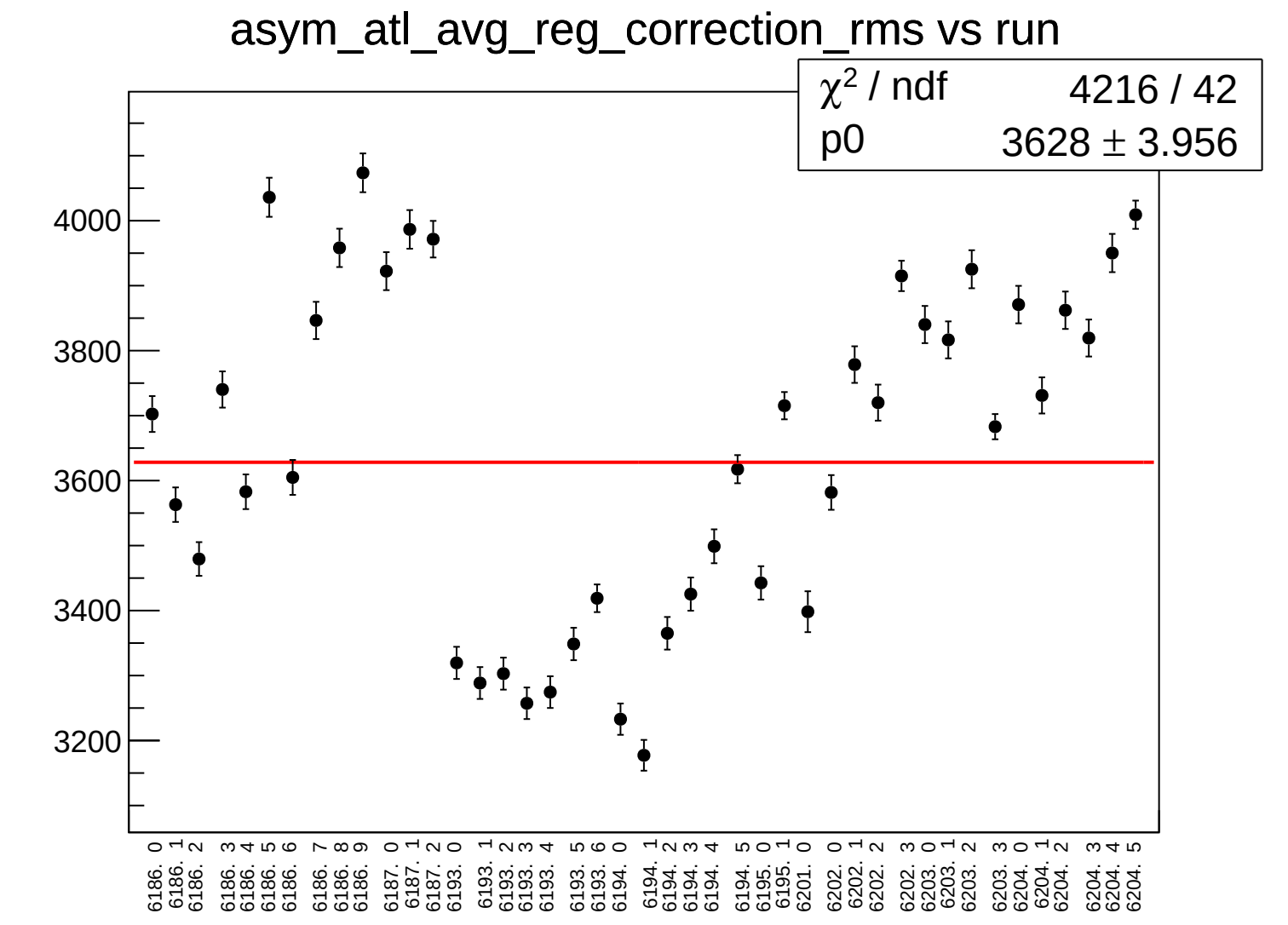

reg_asym_atl_avg_mean vs run
χ² / ndf 47.78 / 42
p0 −2132 ± 2372
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 84.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

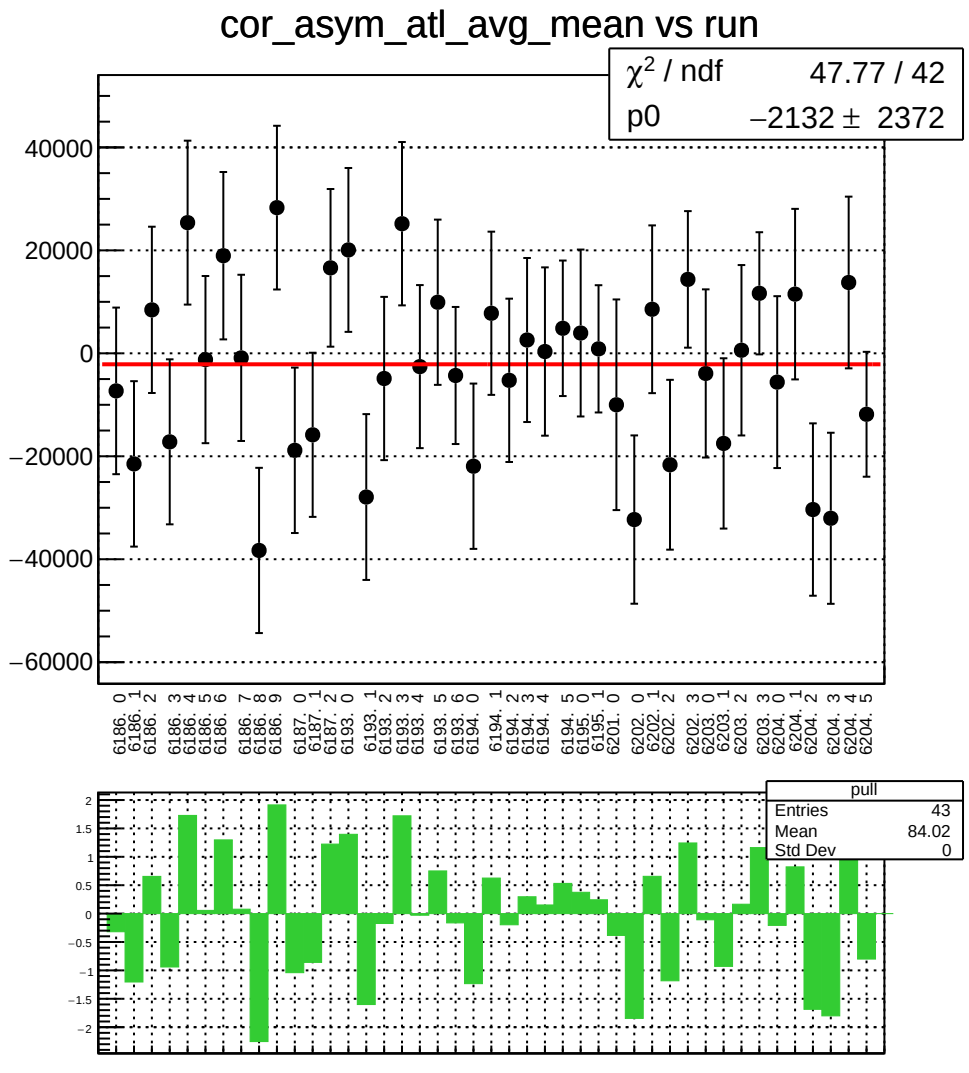

pull1D
Entries 43
Mean −0.0212
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

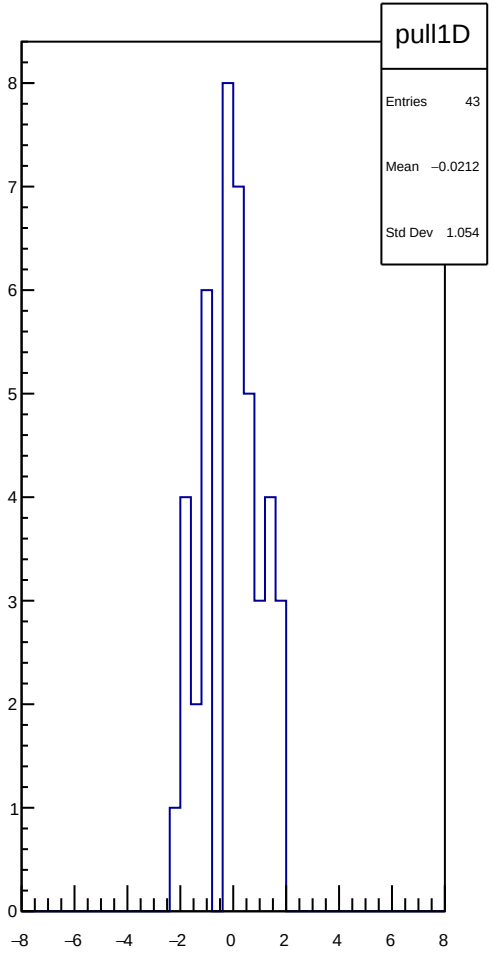

reg_asym_atl_avg_rms vs run
χ^2 / ndf 262.7 / 42
p0 1542 ± 1.677
1600
1580
1560
1540
1520
1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

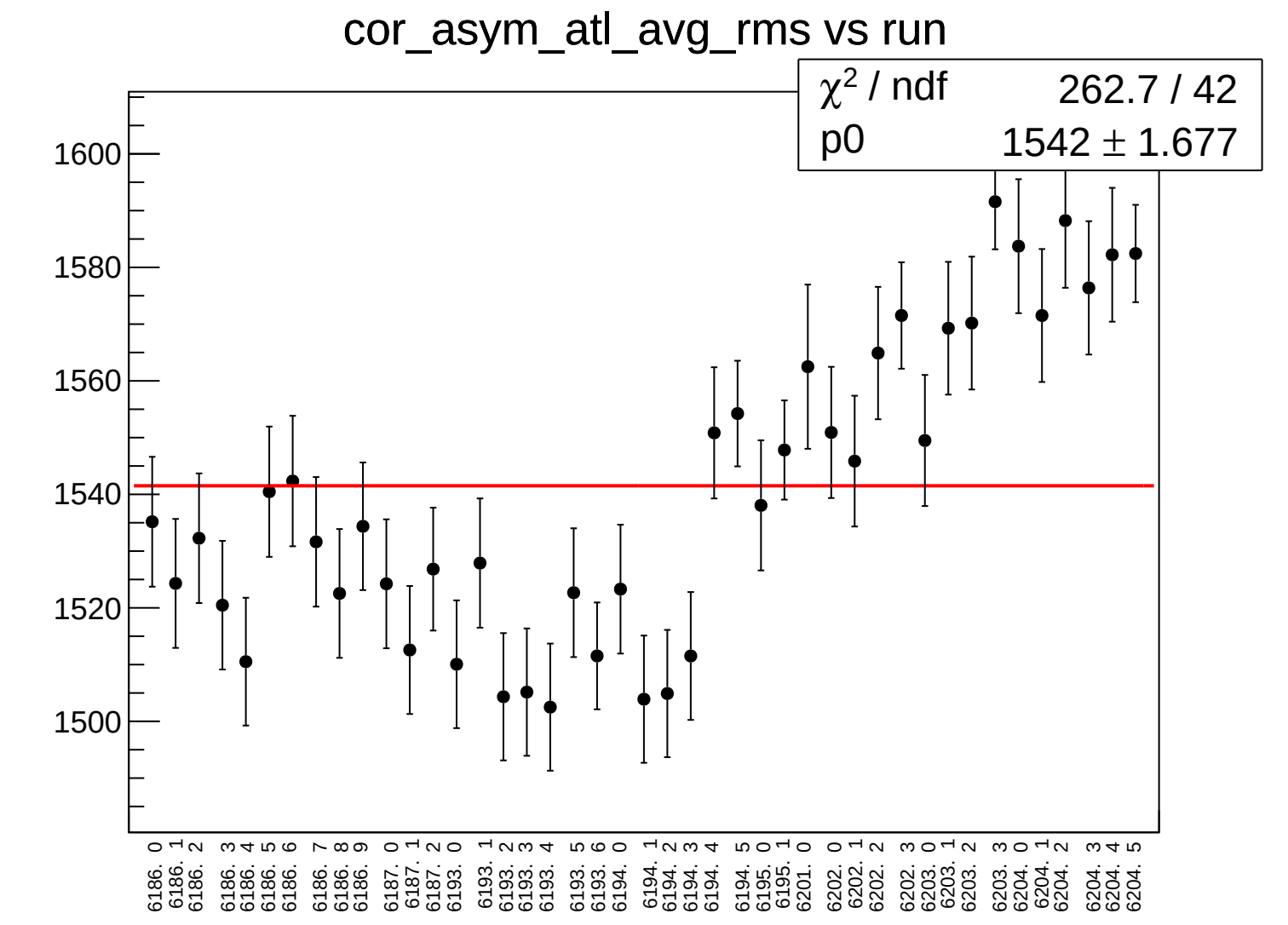

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 62.89 / 42
p0 5435 ± 5595
250
200
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 210.4
Std Dev 0
4
3
2
1
0
−1
−2
−3

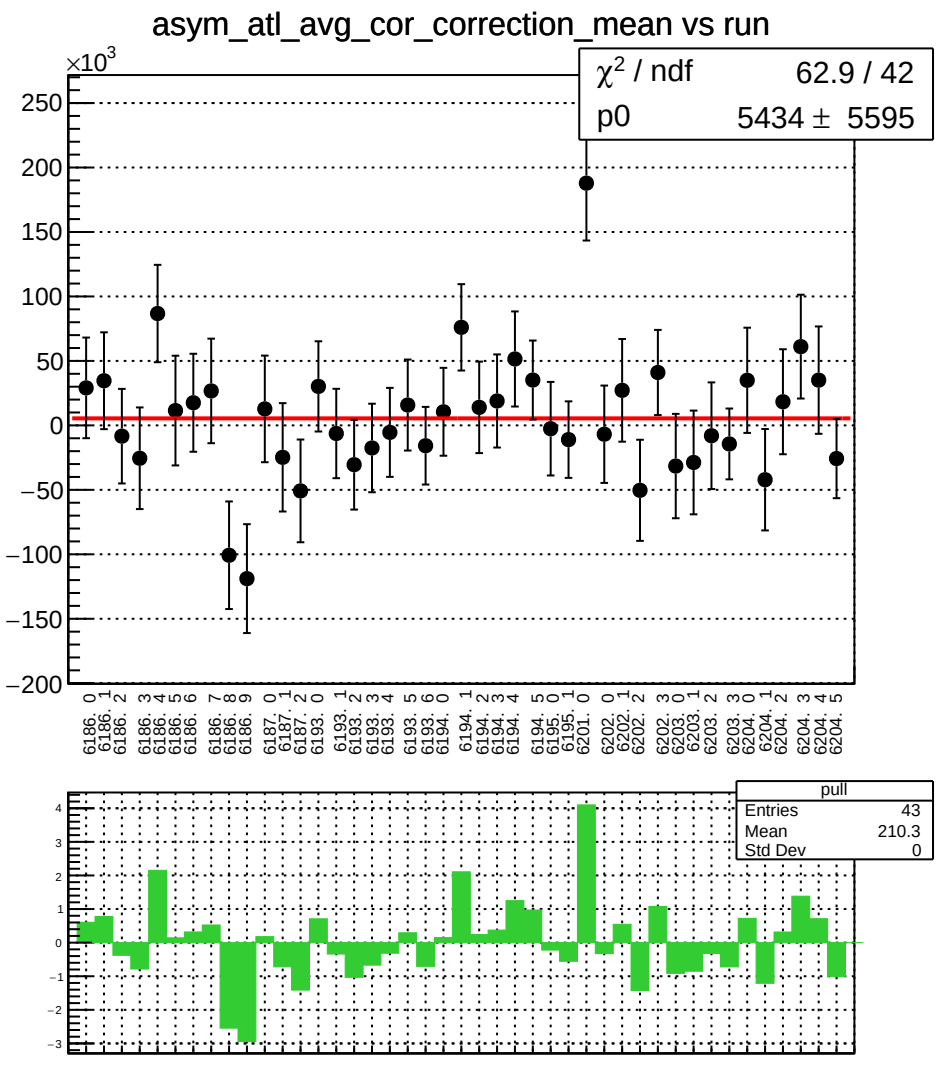

pull1D
Entries 43
Mean 0.005853
Std Dev 1.209
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

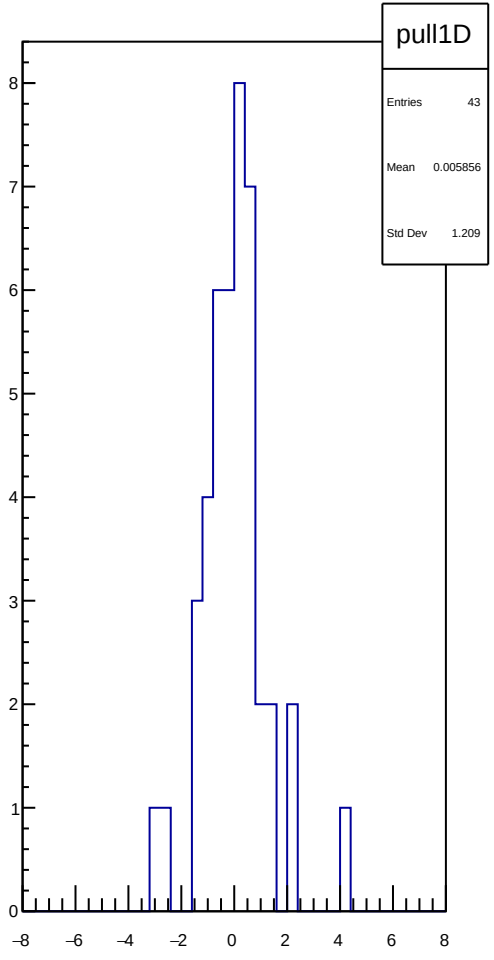

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 4216 / 42
p0 3628 ± 3.956
4000
3800
3600
3400
3200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

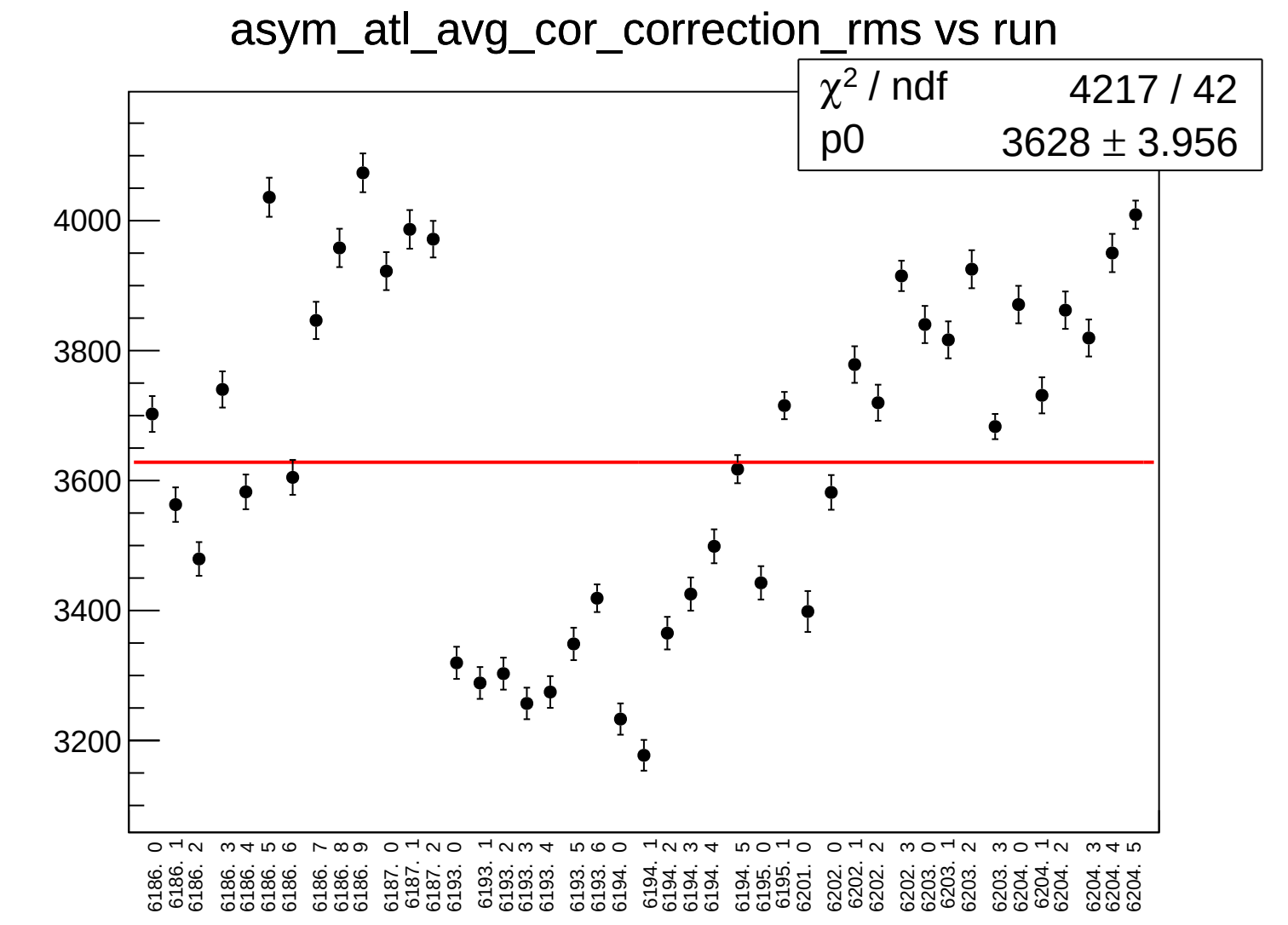

cor_asym_atl_avg_mean vs run
χ² / ndf 47.77 / 42
p0 −2132 ± 2372
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 84.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

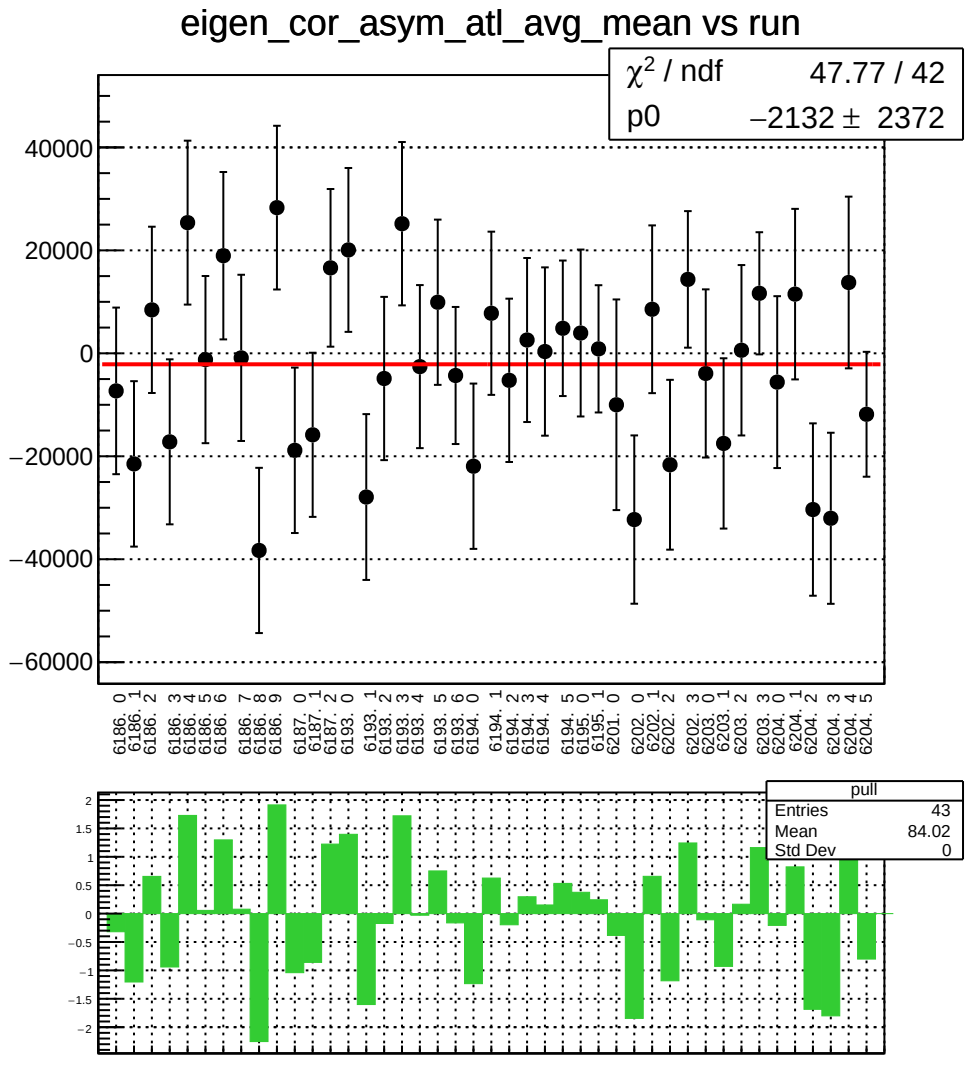

pull1D
Entries 43
Mean −0.0212
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

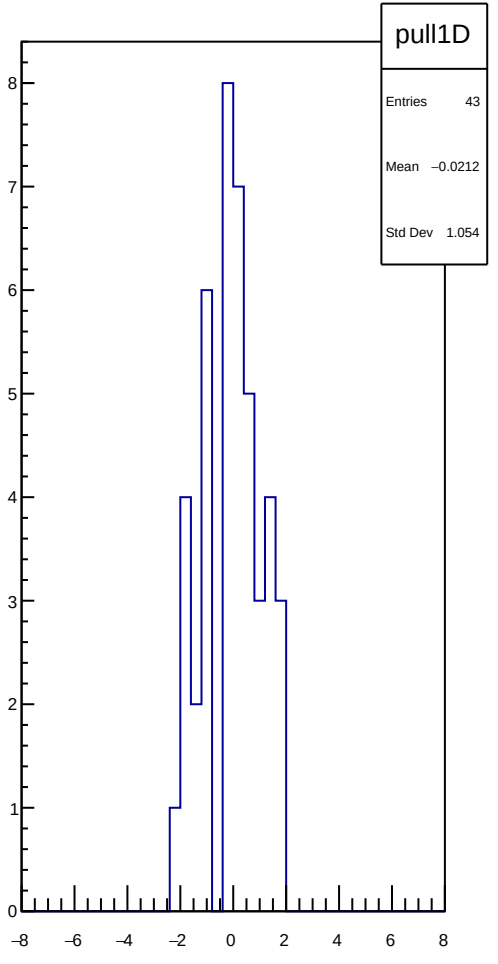

cor_asym_atl_avg_rms vs run
χ^2 / ndf 262.7 / 42
p0 1542 ± 1.677
1600
1580
1560
1540
1520
1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

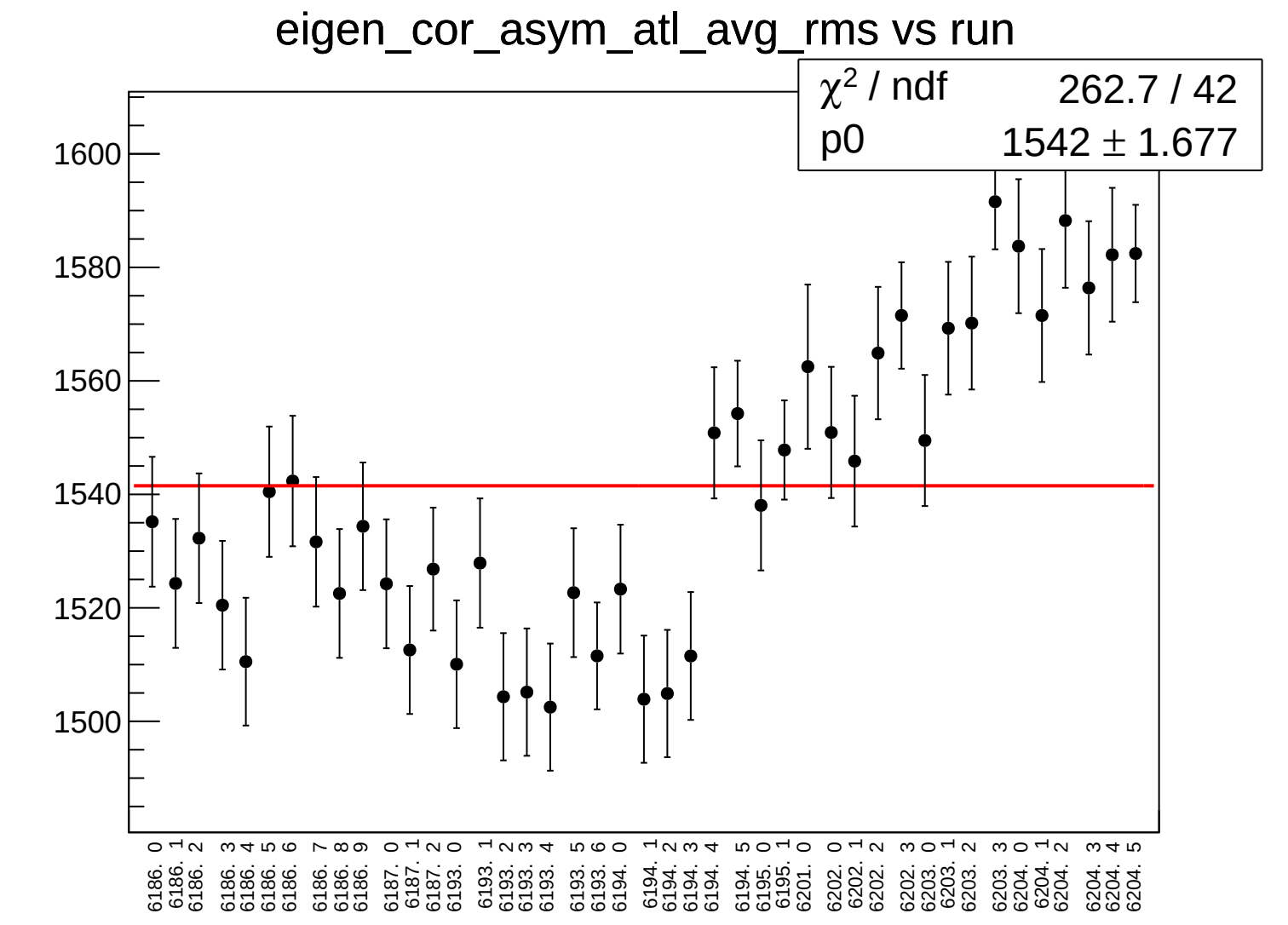

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 62.9 / 42
p0 5434 ± 5595
250
200
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 210.3
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.005856
Std Dev 1.209
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_cor_correction_rms vs run
χ² / ndf 4217 / 42
p0 3628 ± 3.956
4000
3800
3600
3400
3200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 47.77 / 42
p0 −2132 ± 2372
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 84.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.0212
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 262.7 / 42
p0 1542 ± 1.677
1600
1580
1560
1540
1520
1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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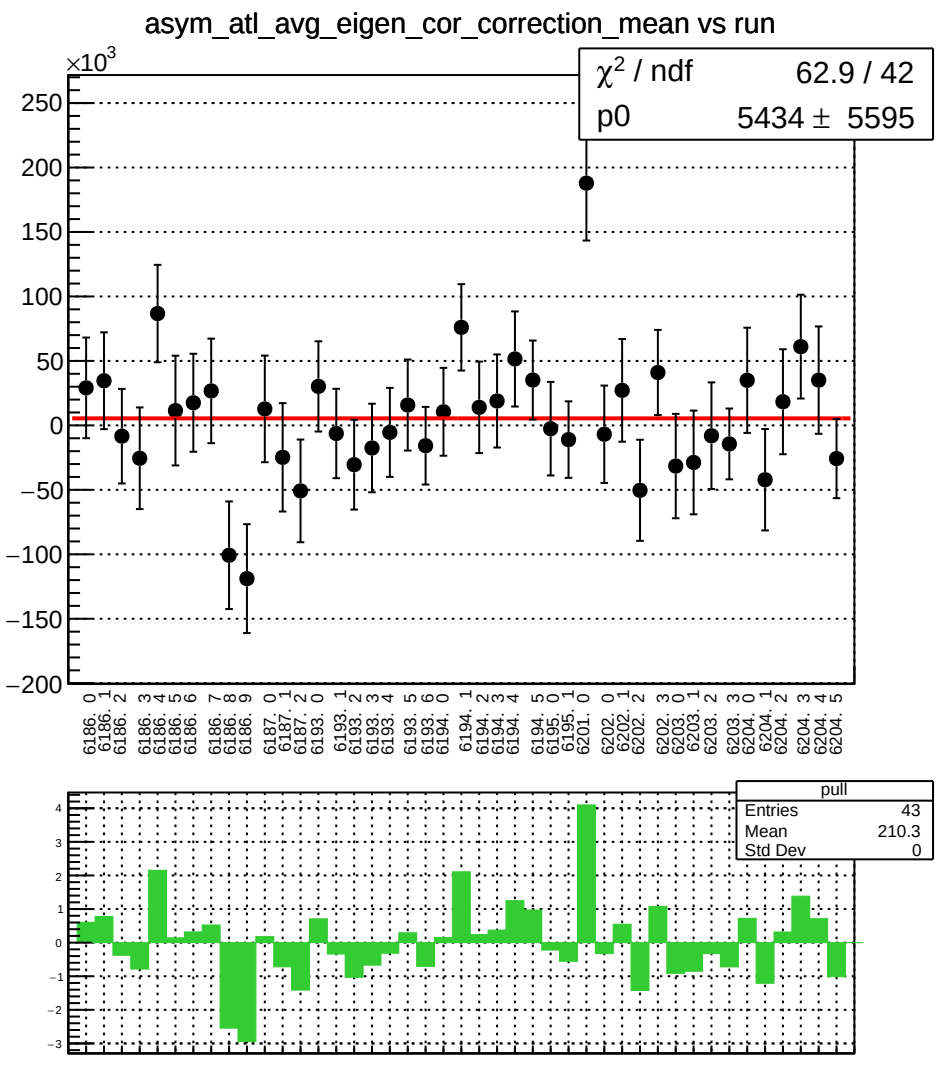
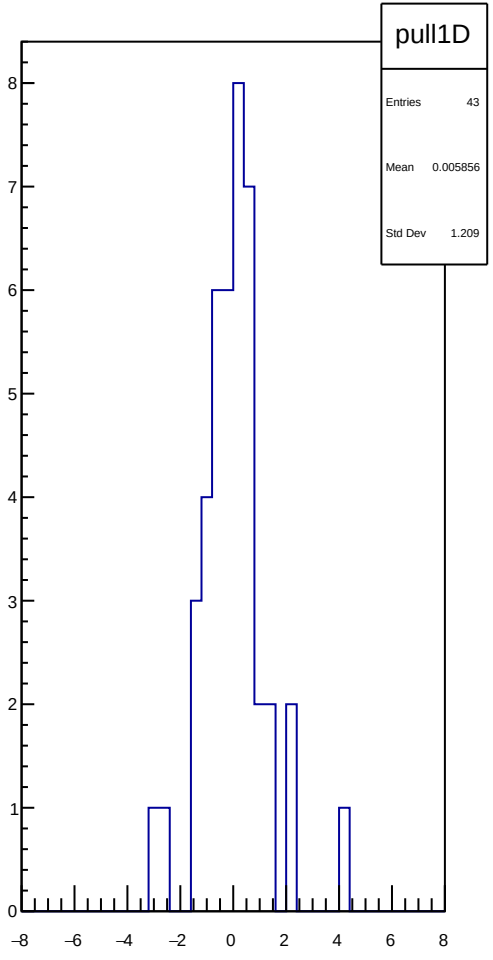
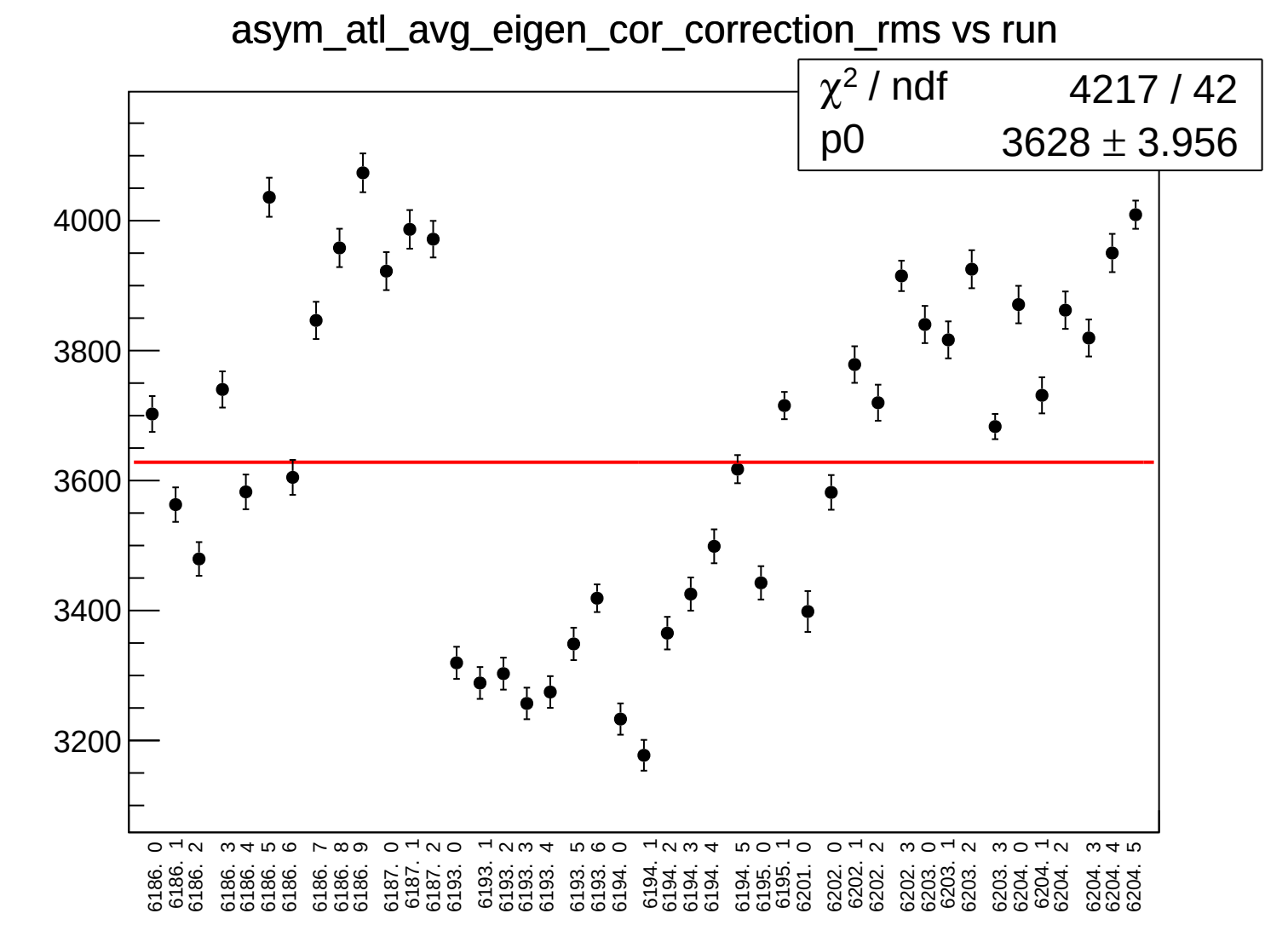
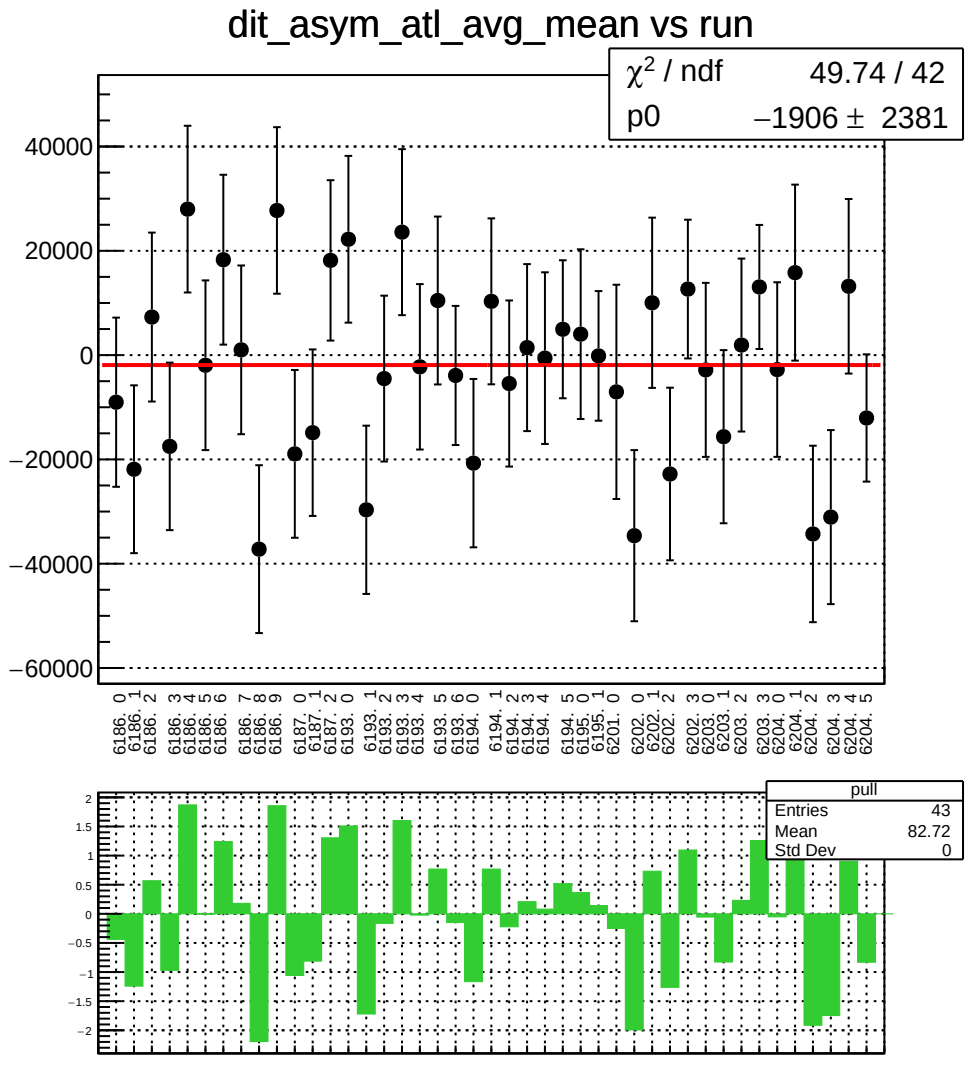
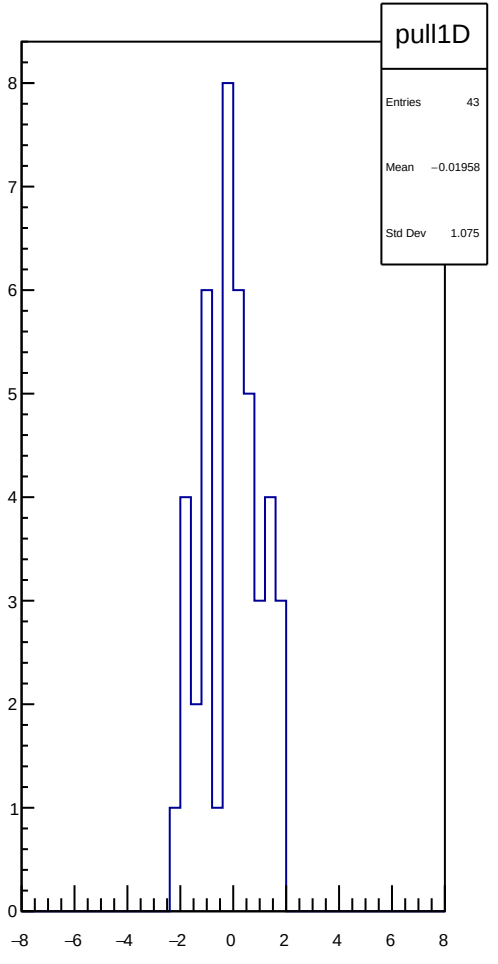
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

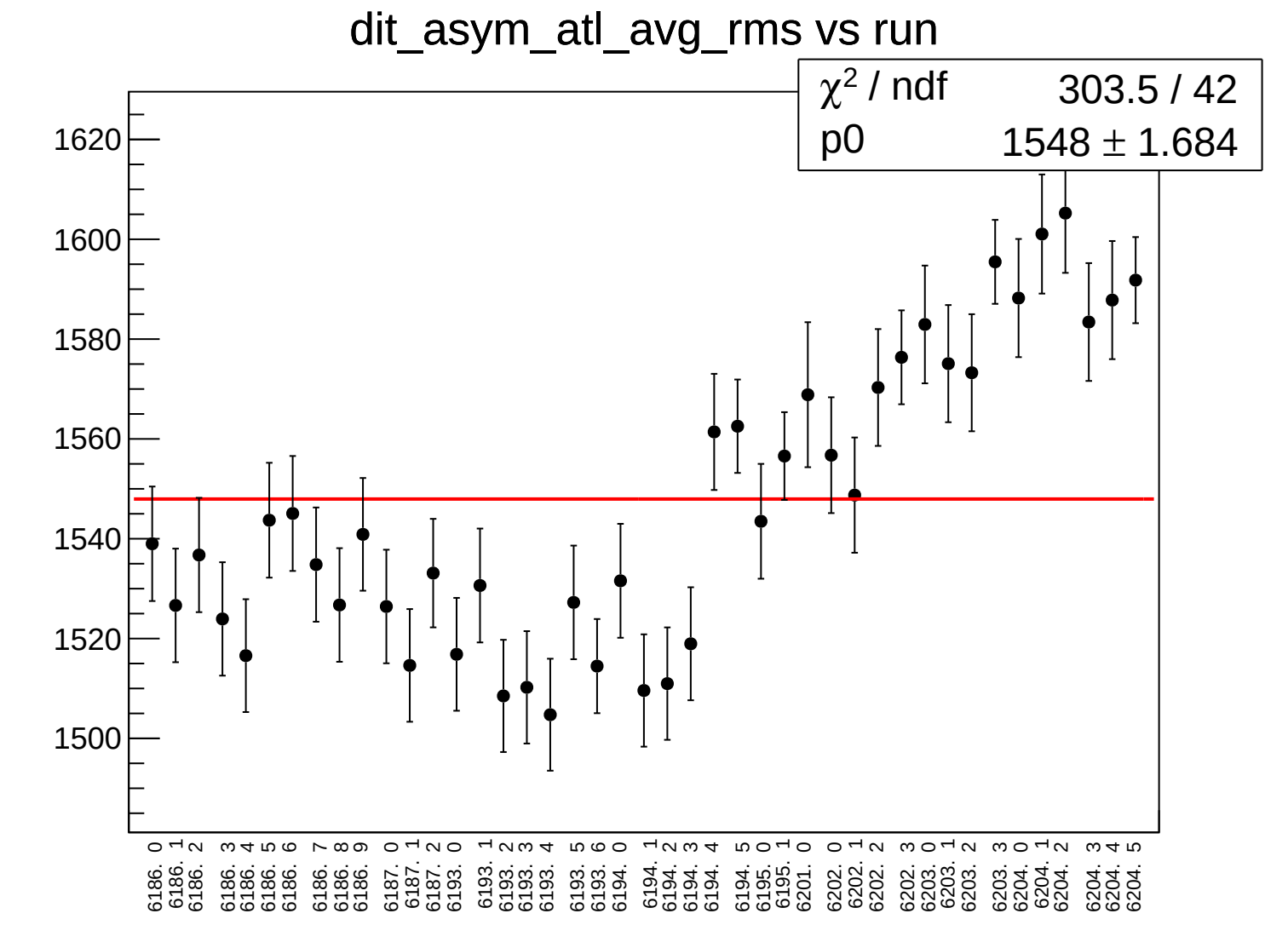

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 62.9 / 42
p0 5434 ± 5595
250
200
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 210.3
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.005856
Std Dev 1.209
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 4217 / 42
p0 3628 ± 3.956
4000
3800
3600
3400
3200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_atl_avg_mean vs run
χ² / ndf 49.74 / 42
p0 −1906 ± 2381
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 82.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.01958
Std Dev 1.075
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_avg_rms vs run
χ² / ndf 303.5 / 42
p0 1548 ± 1.684
1620
1600
1580
1560
1540
1520
1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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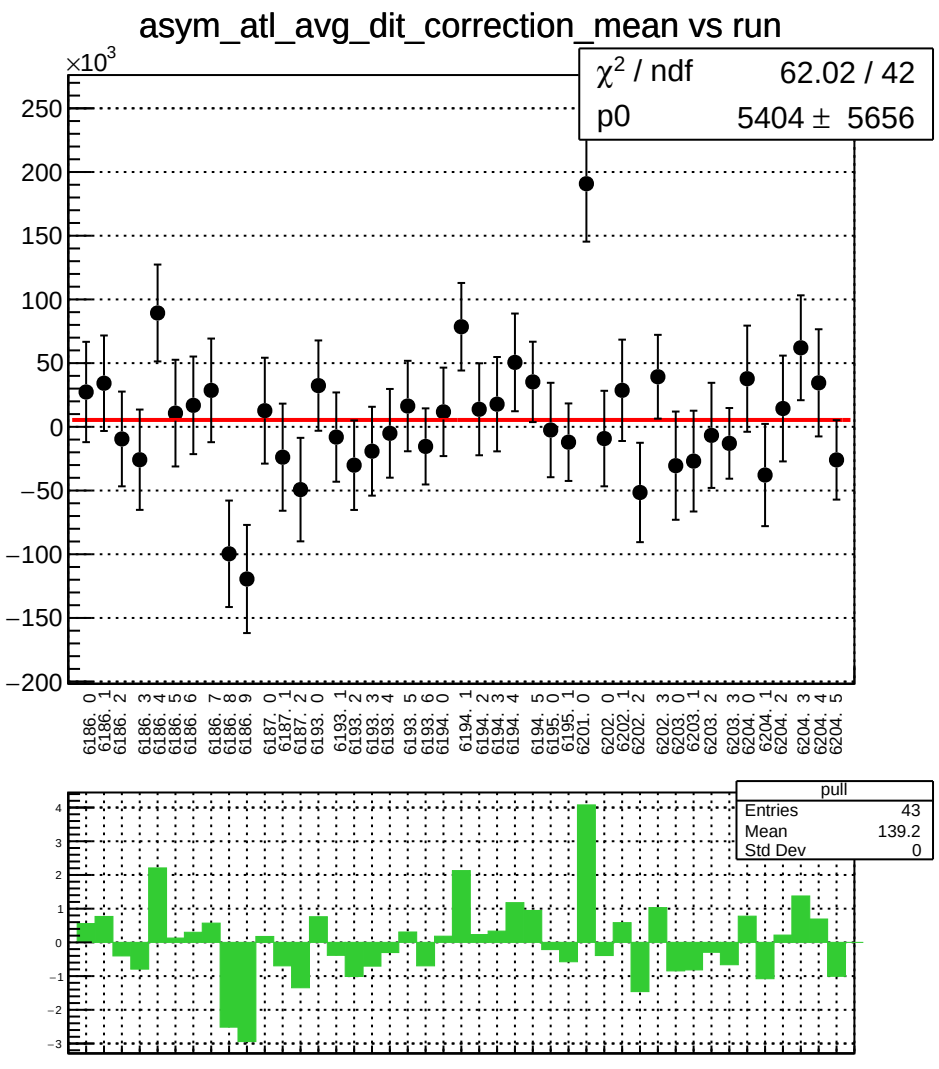
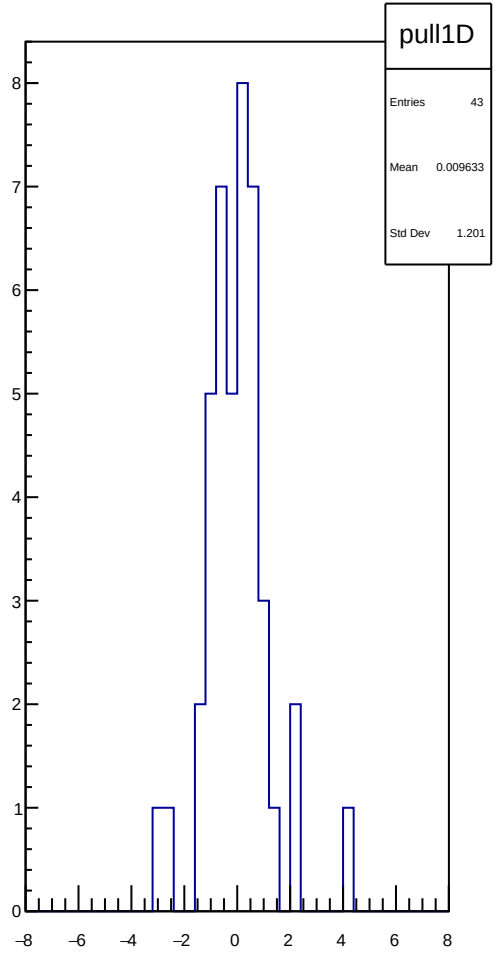
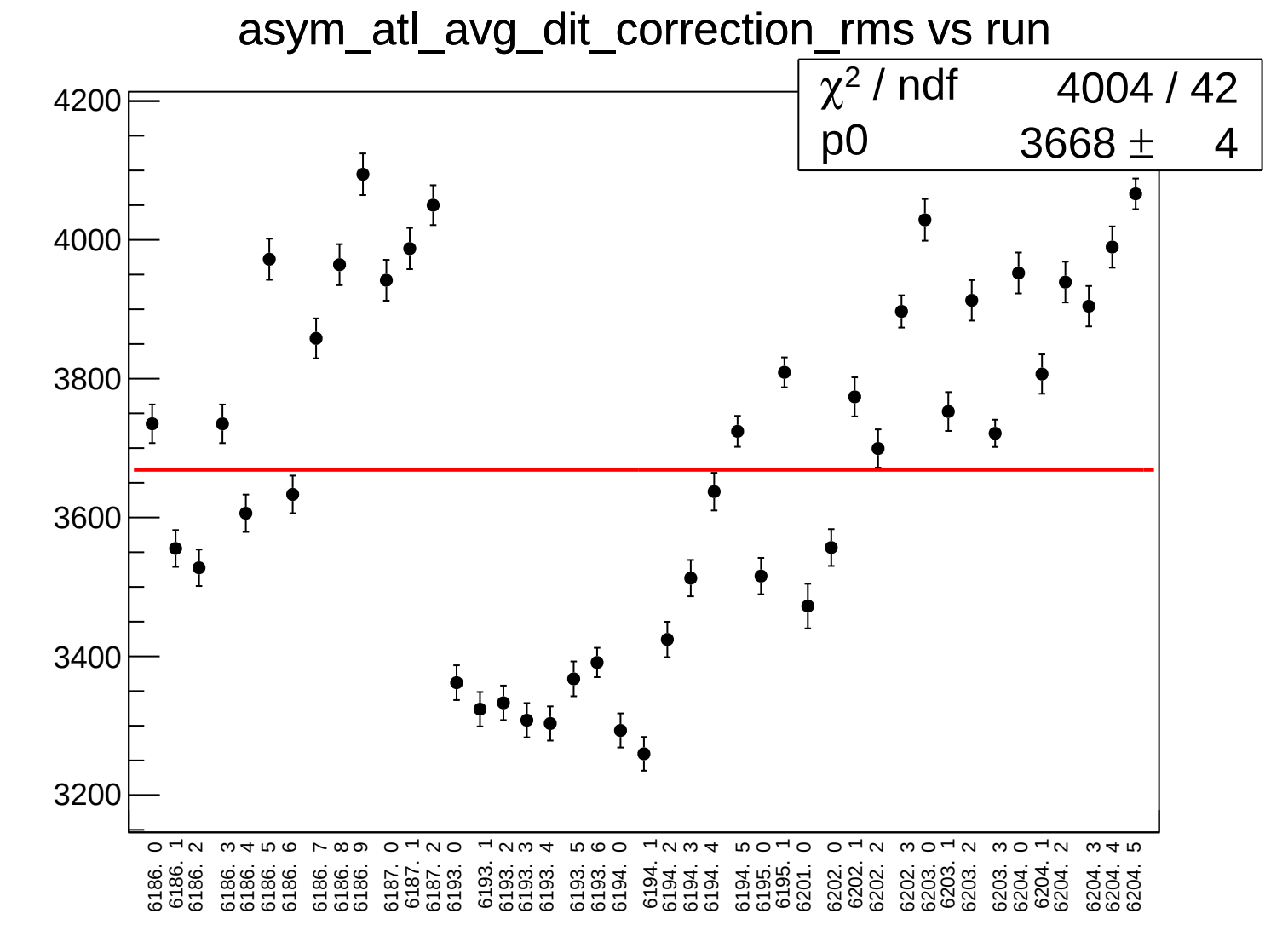
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 62.02 / 42
p0 5404 ± 5656
250
200
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 139.2
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.009633
Std Dev 1.201
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 4004 / 42
p0 3668 ± 4
4200
4000
3800
3600
3400
3200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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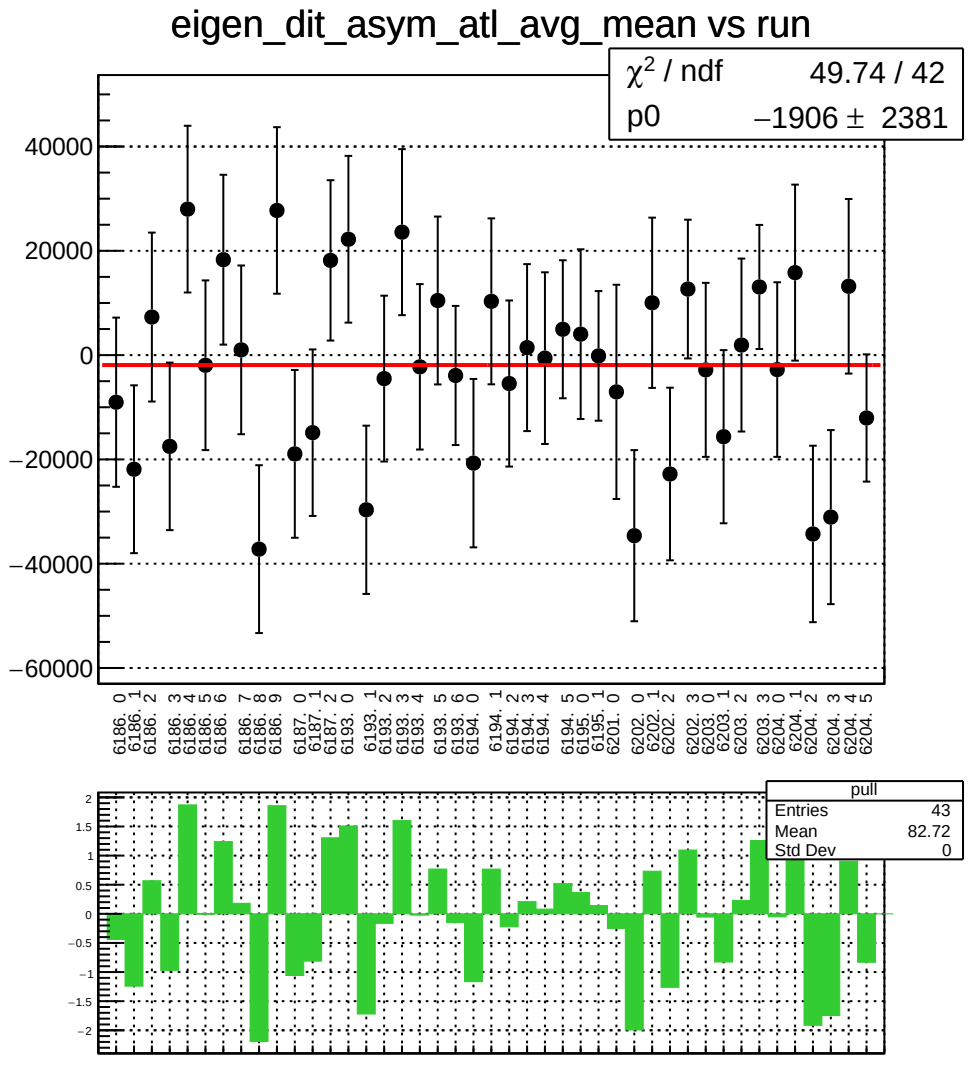
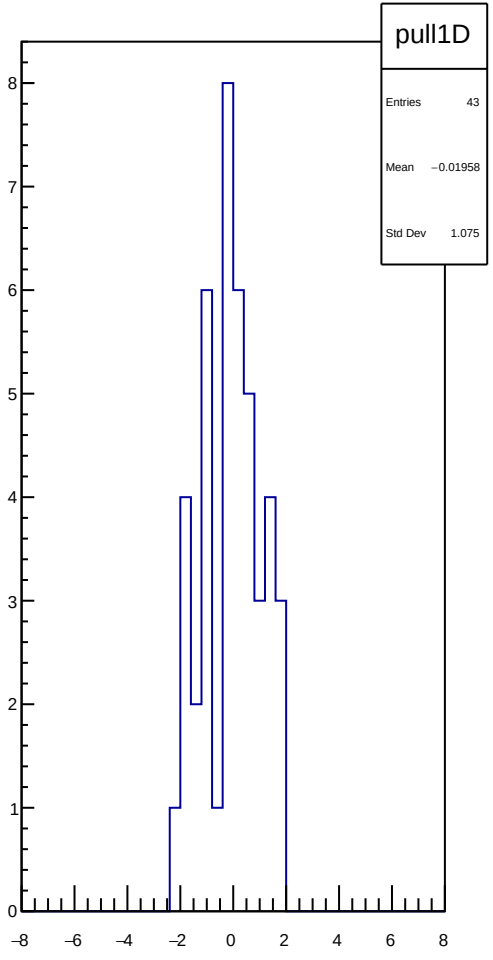
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 49.74 / 42
p0 −1906 ± 2381
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 82.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.01958
Std Dev 1.075
8
7
6
5
4
3
2
1
0
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−6
−4
−2
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2
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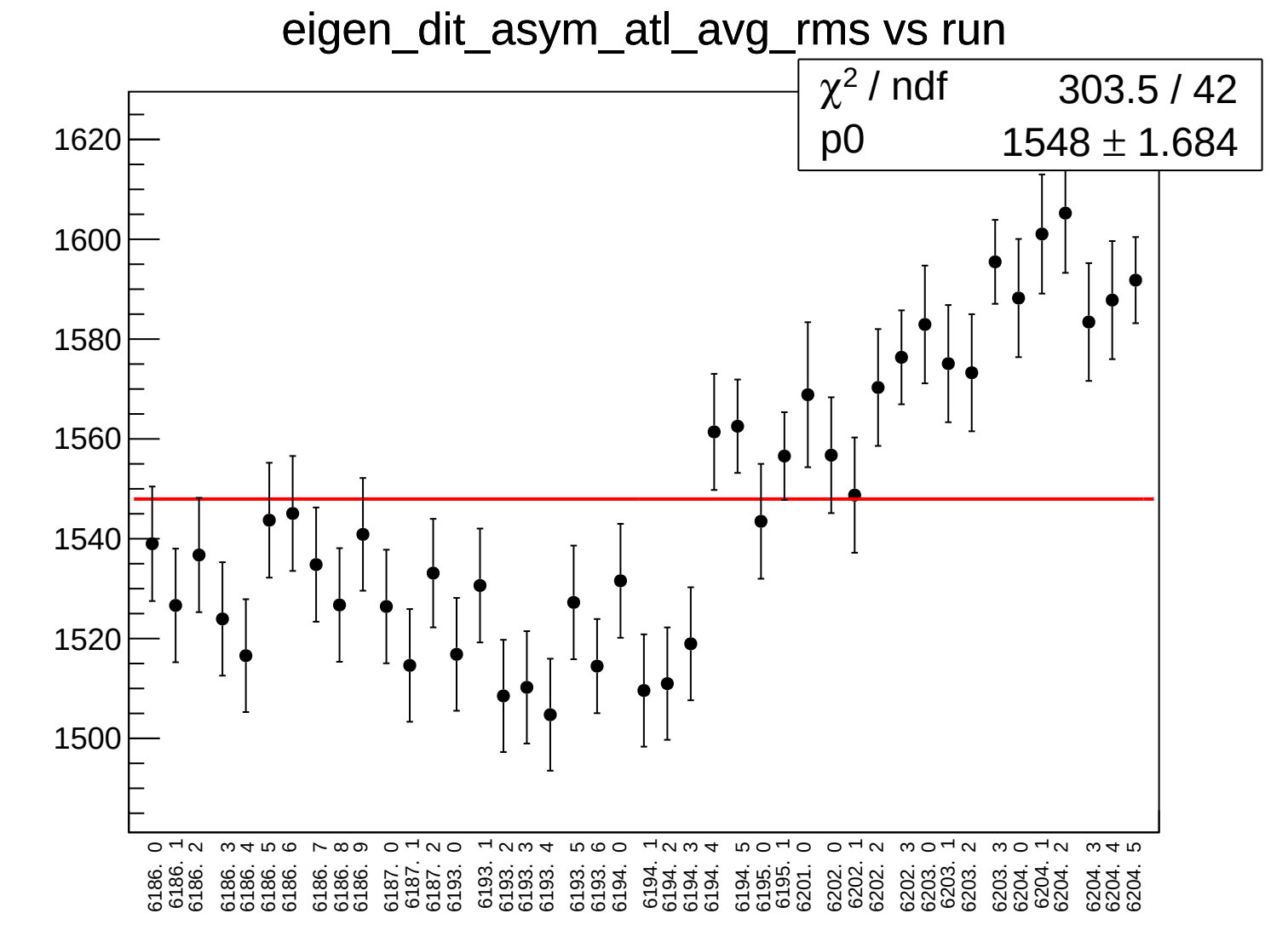
6
8


eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 303.5 / 42
p0 1548 ± 1.684
1620
1600
1580
1560
1540
1520
1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
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6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
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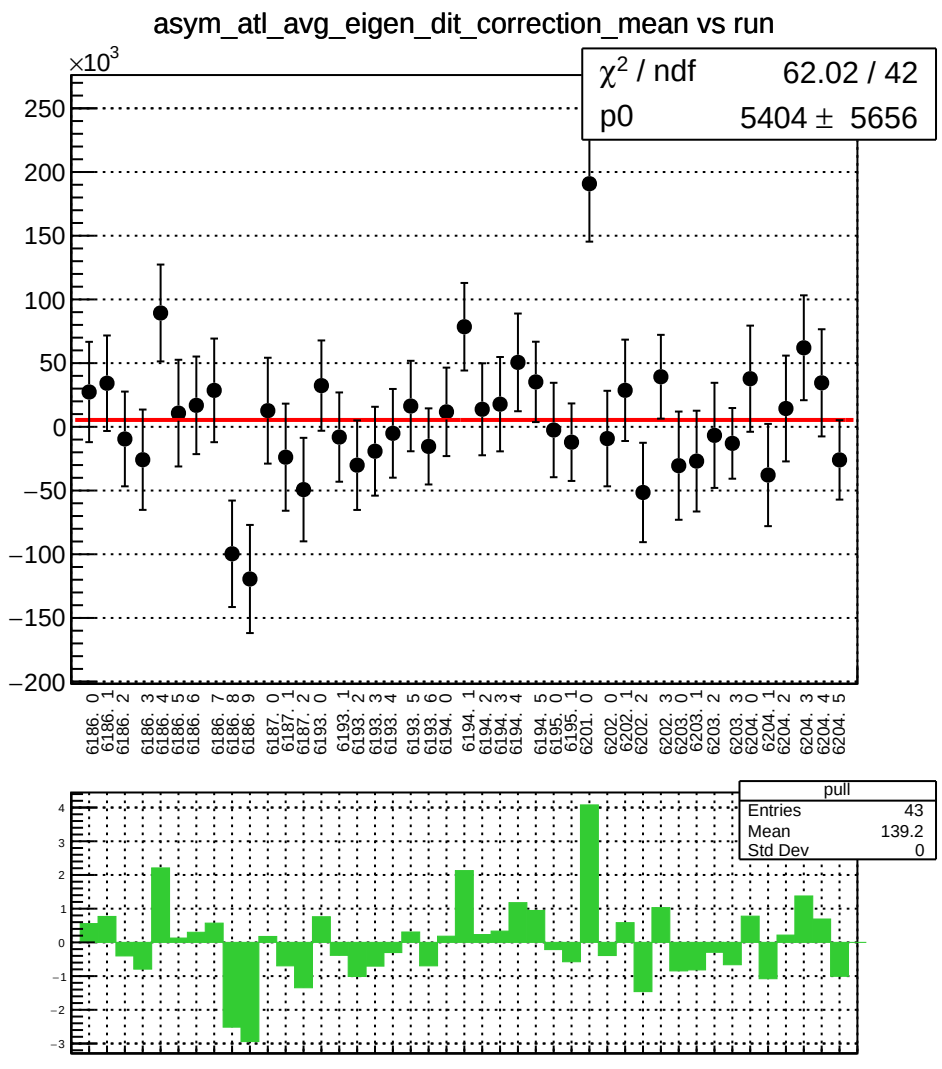
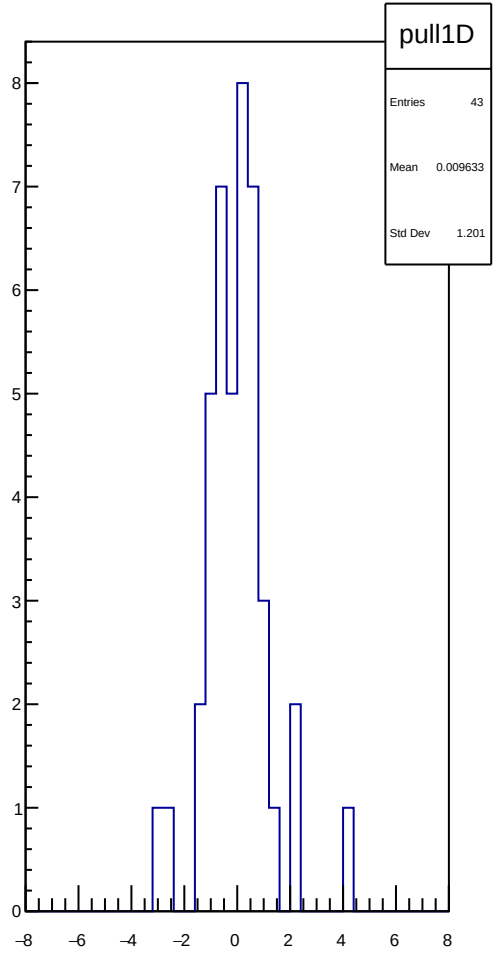
6204. 5


asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 62.02 / 42
p0 5404 ± 5656
250
200
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 139.2
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.009633
Std Dev 1.201
8
7
6
5
4
3
2
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0
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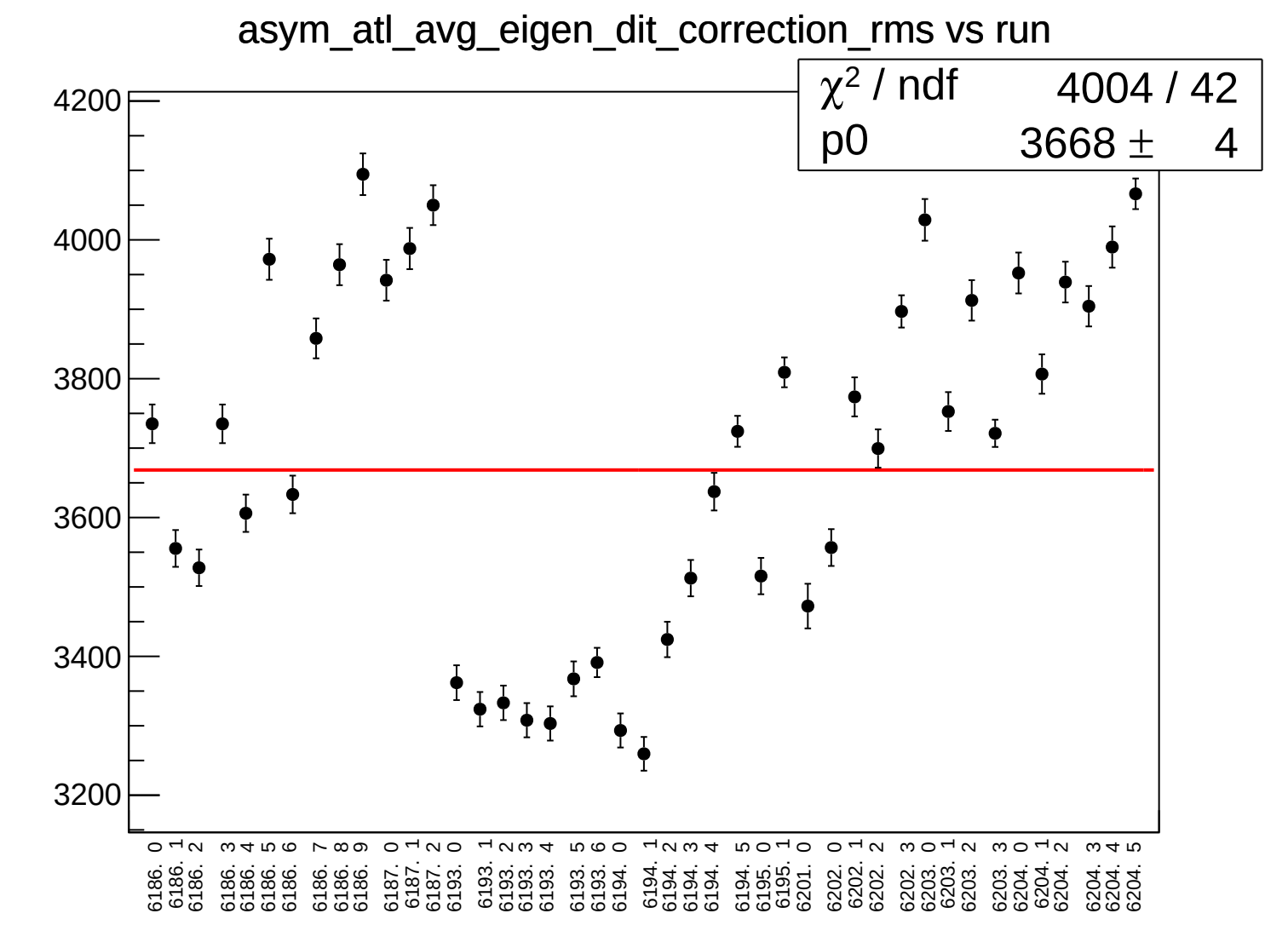
−6
−4
−2
0
2
4
6
8


asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 4004 / 42
p0 3668 ± 4
4200
4000
3800
3600
3400
3200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
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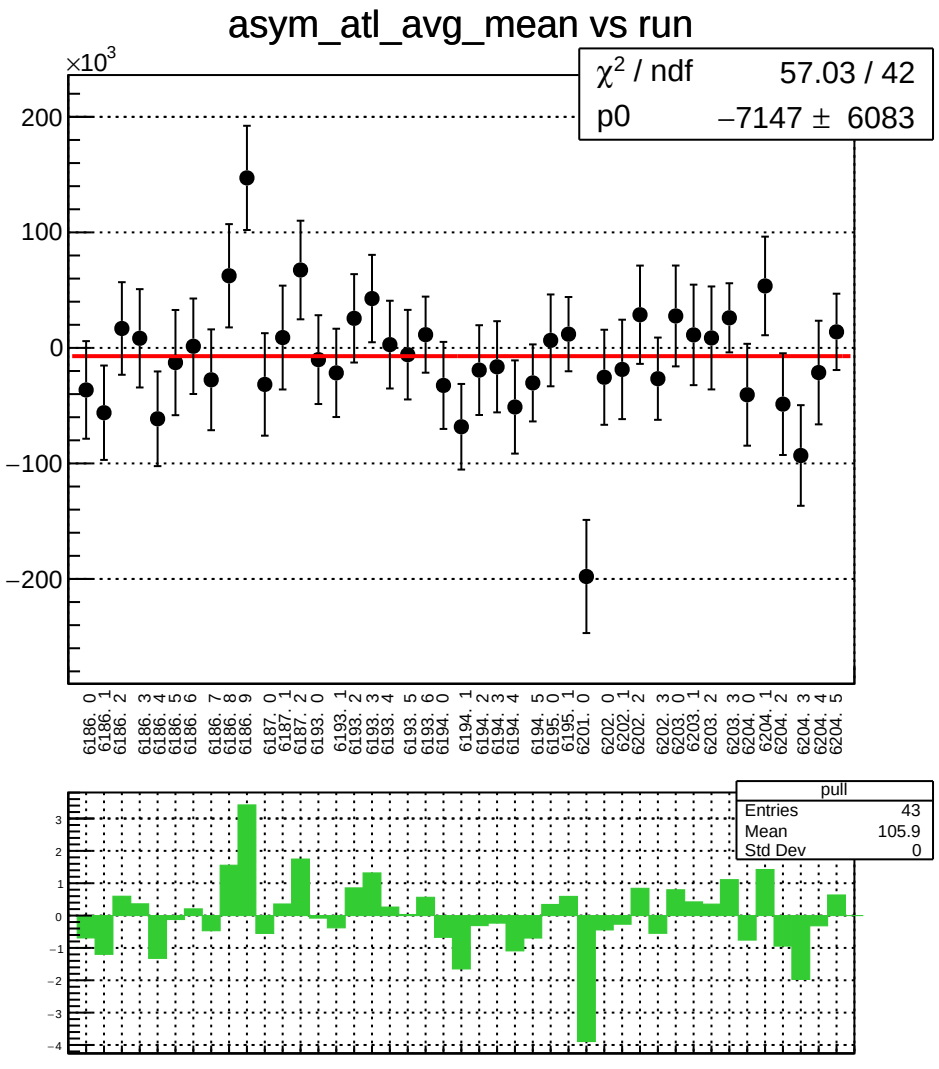
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl_avg_mean vs run
×10^3
χ² / ndf 57.03 / 42
p0 −7147 ± 6083
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
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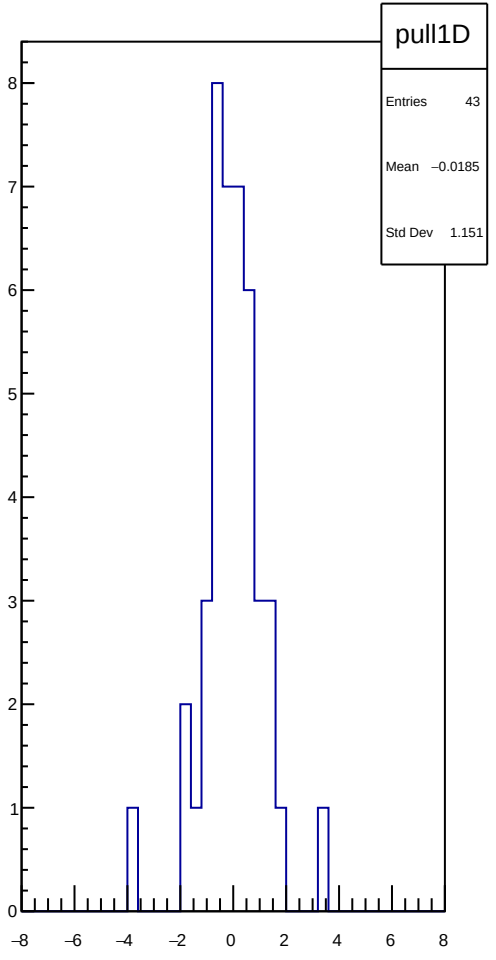
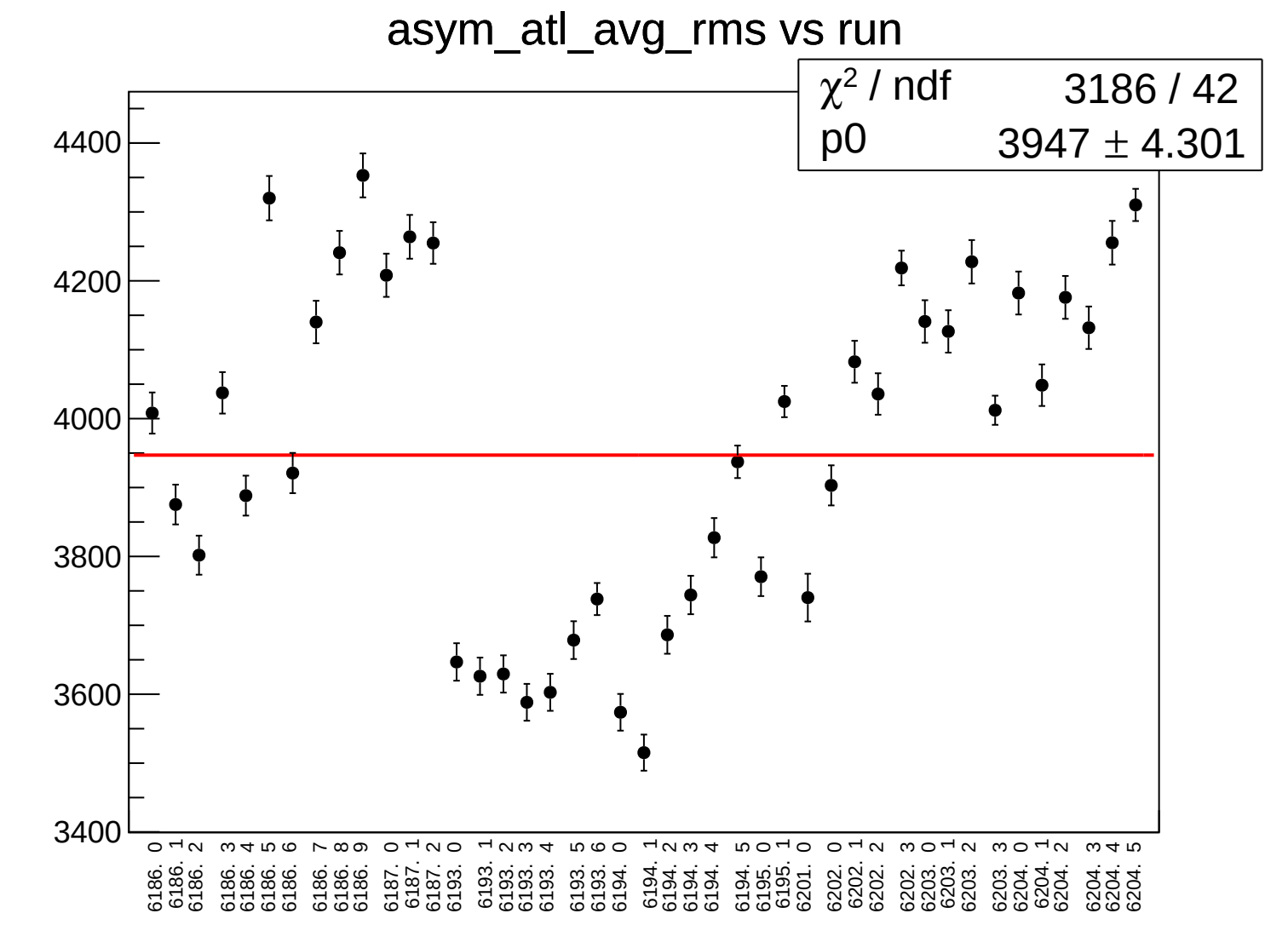
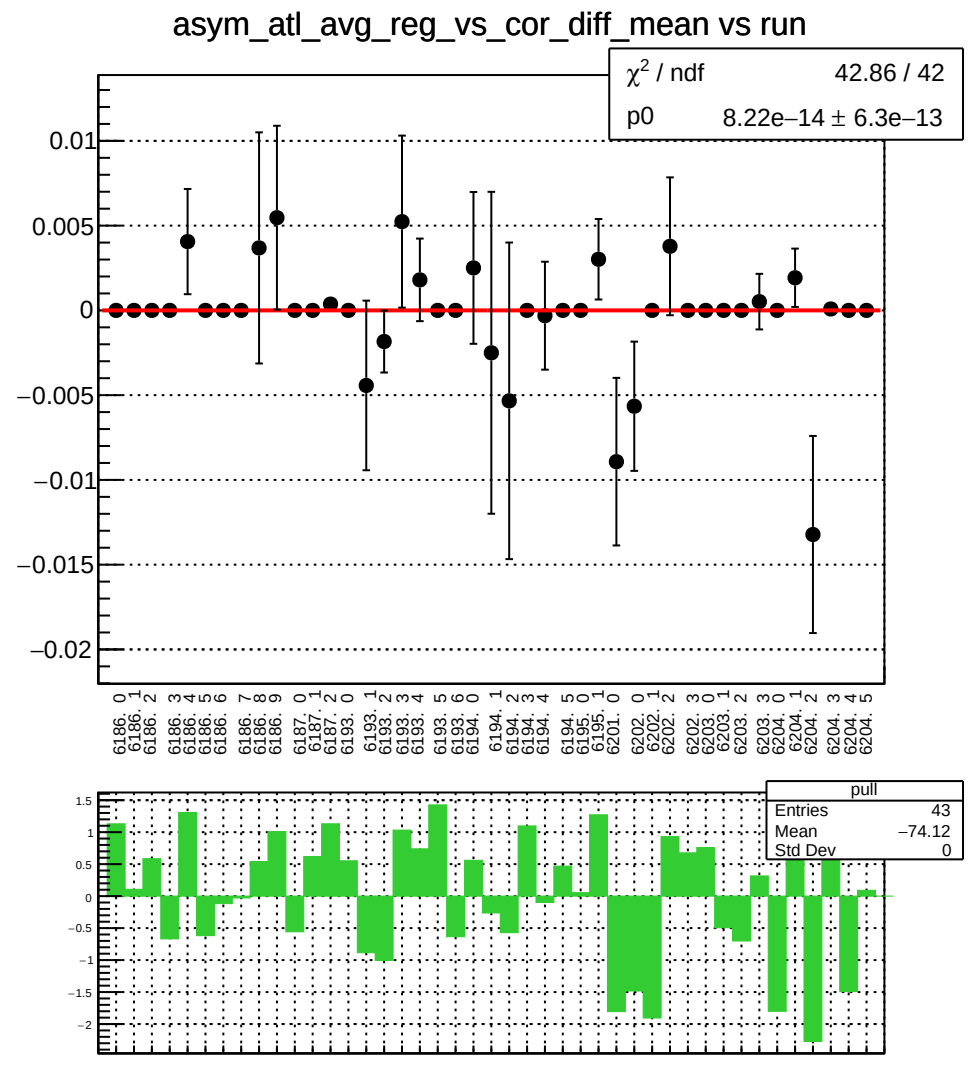
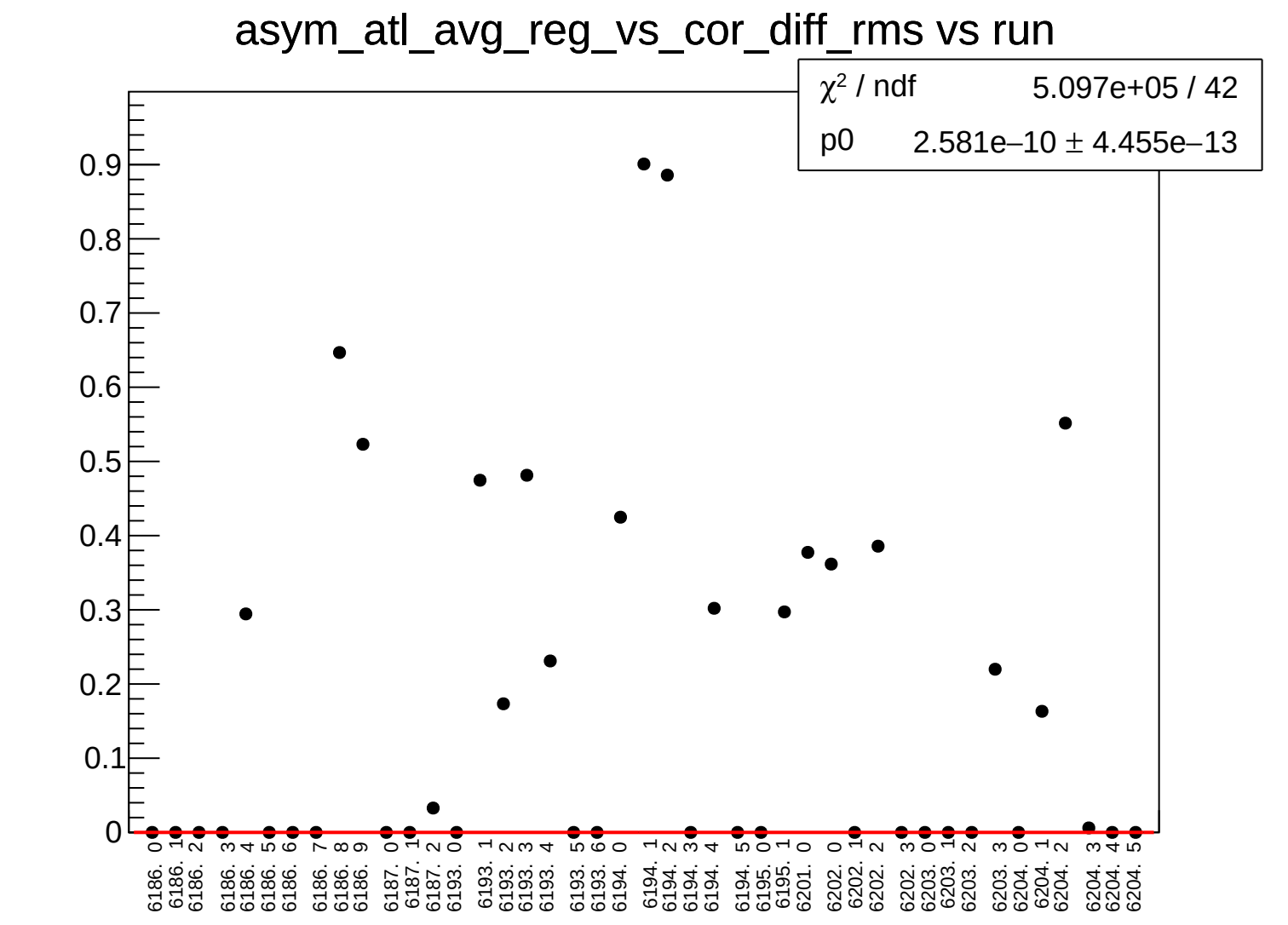
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 105.9
Std Dev 0
3
2
1
0
−1
−2
−3
−4

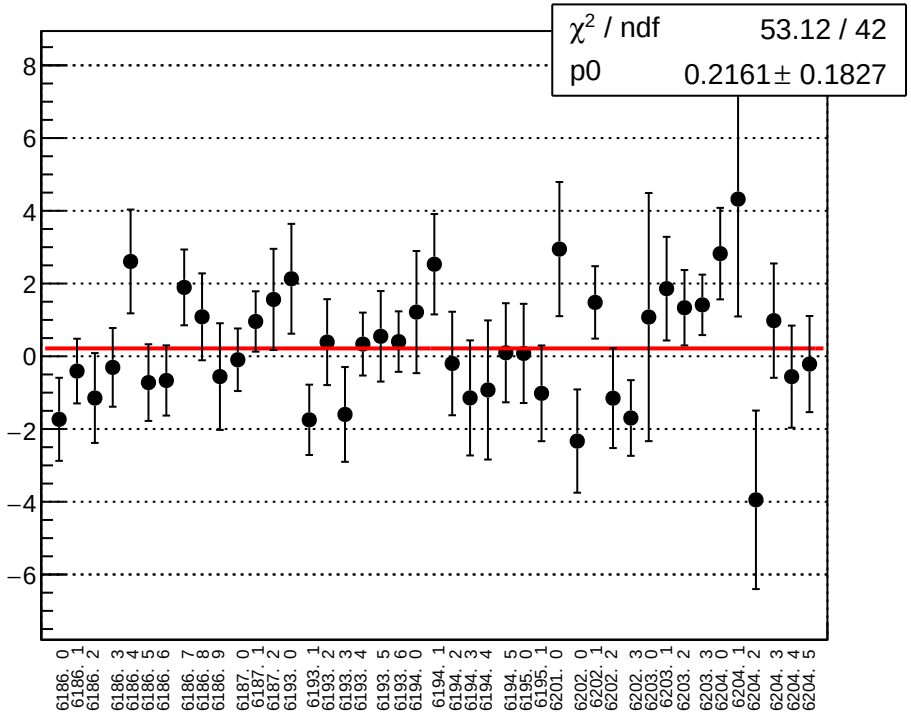

pull1D
Entries 43
Mean −0.0185
Std Dev 1.151
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

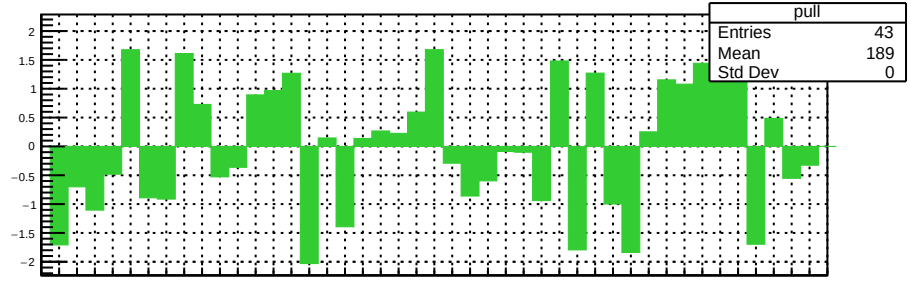

asym_atl_avg_rms vs run
χ² / ndf 3186 / 42
p0 3947 ± 4.301
4400
4200
4000
3800
3600
3400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

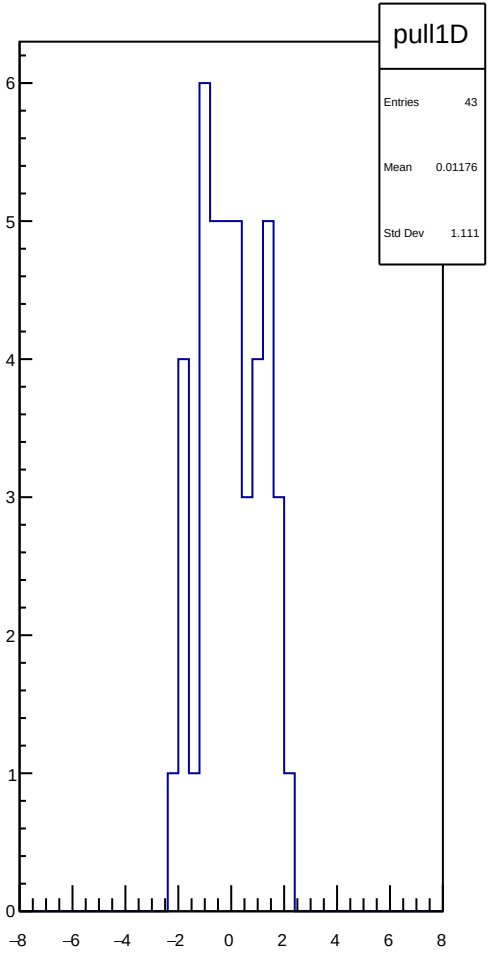

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 42.86 / 42
p0 8.22e−14 ± 6.3e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −74.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.03357
Std Dev 0.9978
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

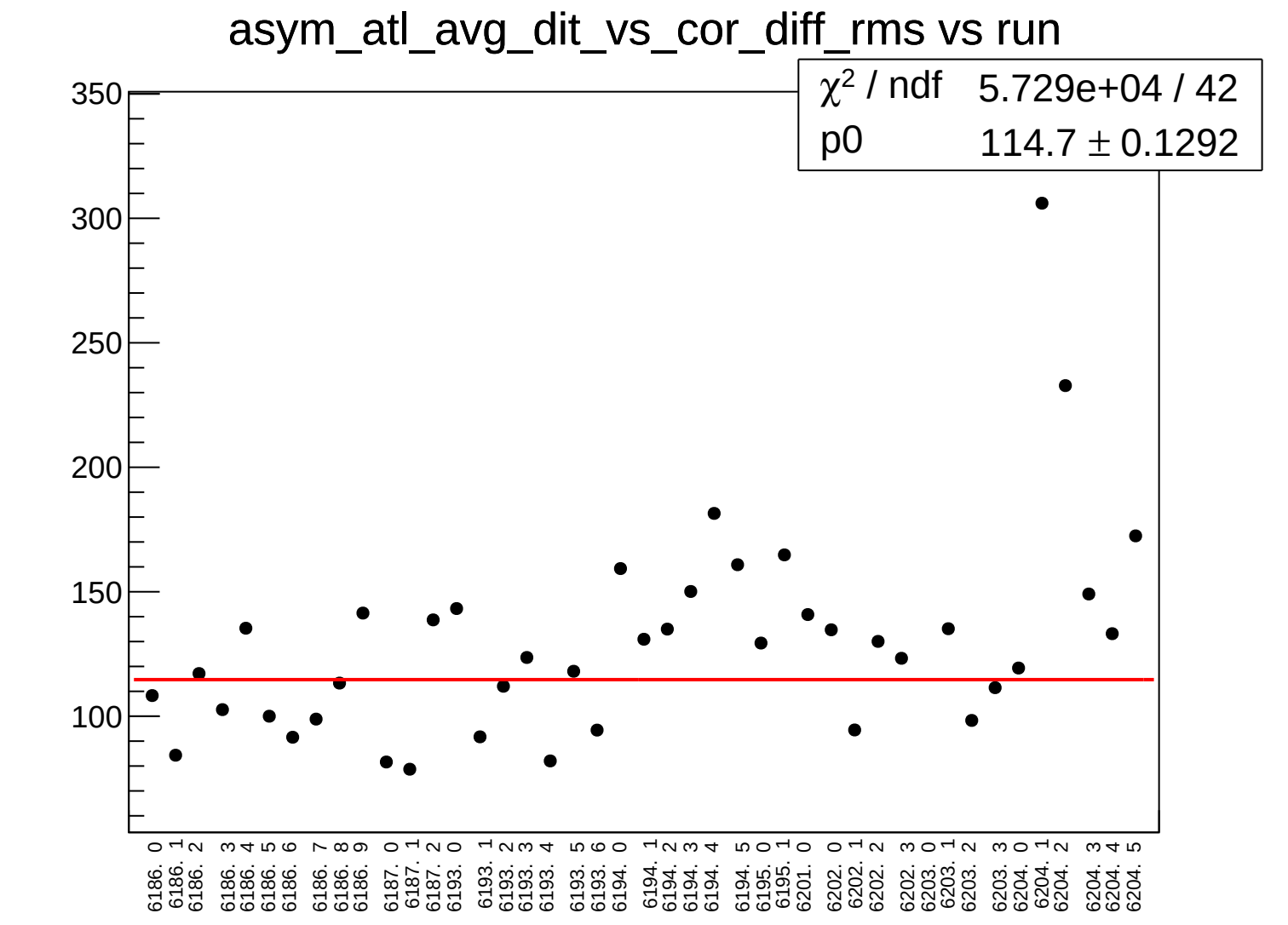

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.097e+05 / 42
p0 2.581e−10 ± 4.455e−13
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

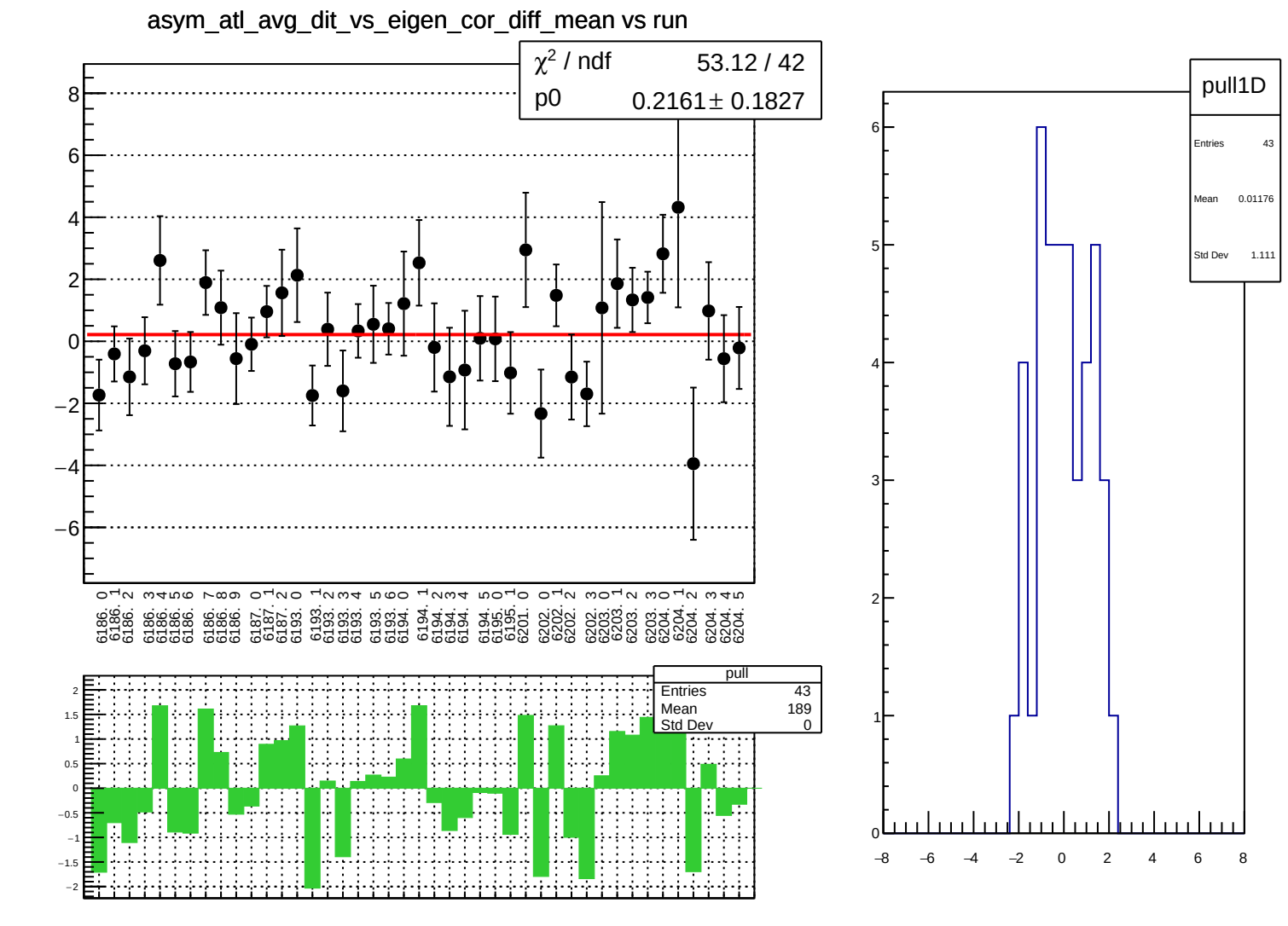
asym_atl_avg_dit_vs_cor_diff_mean vs run

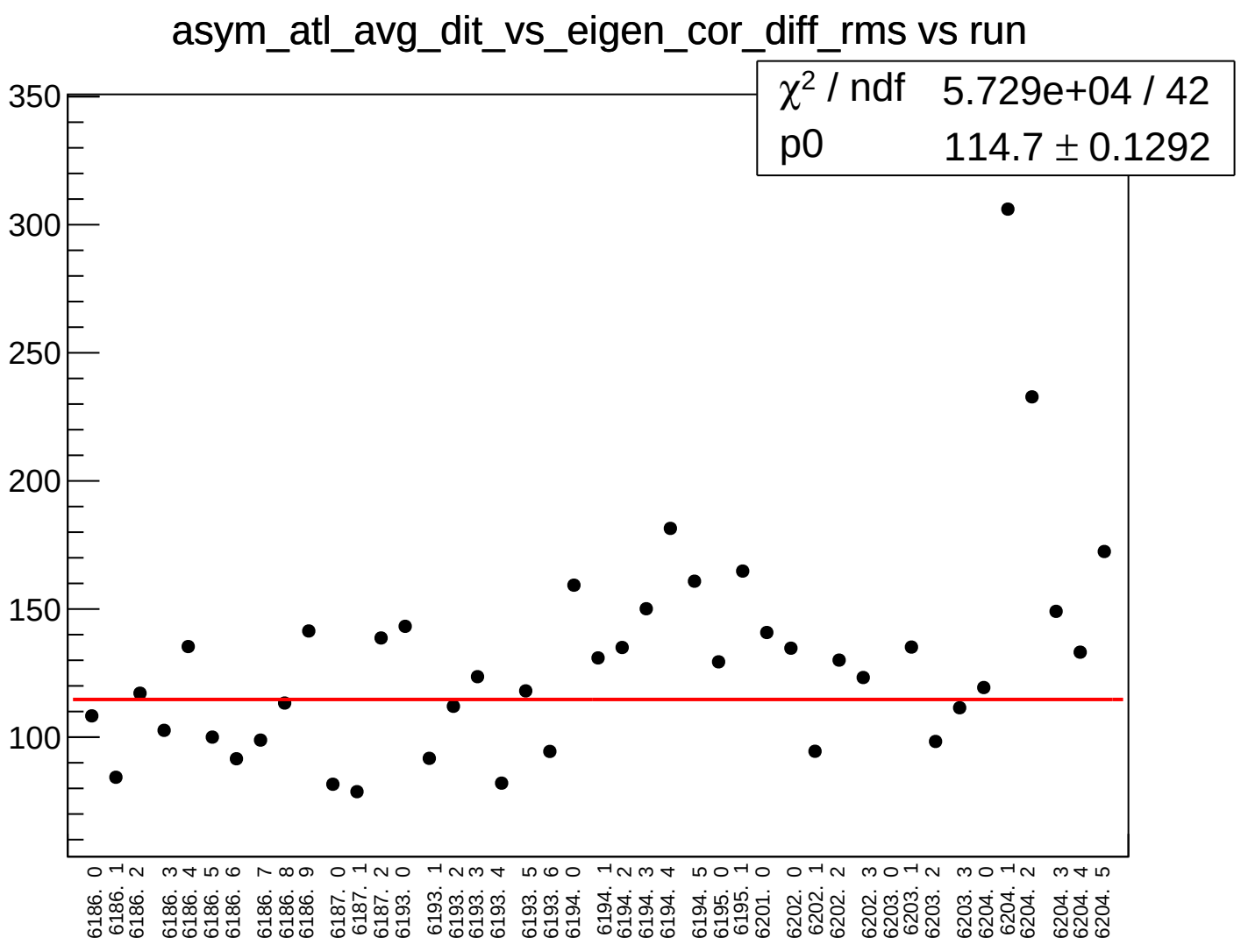


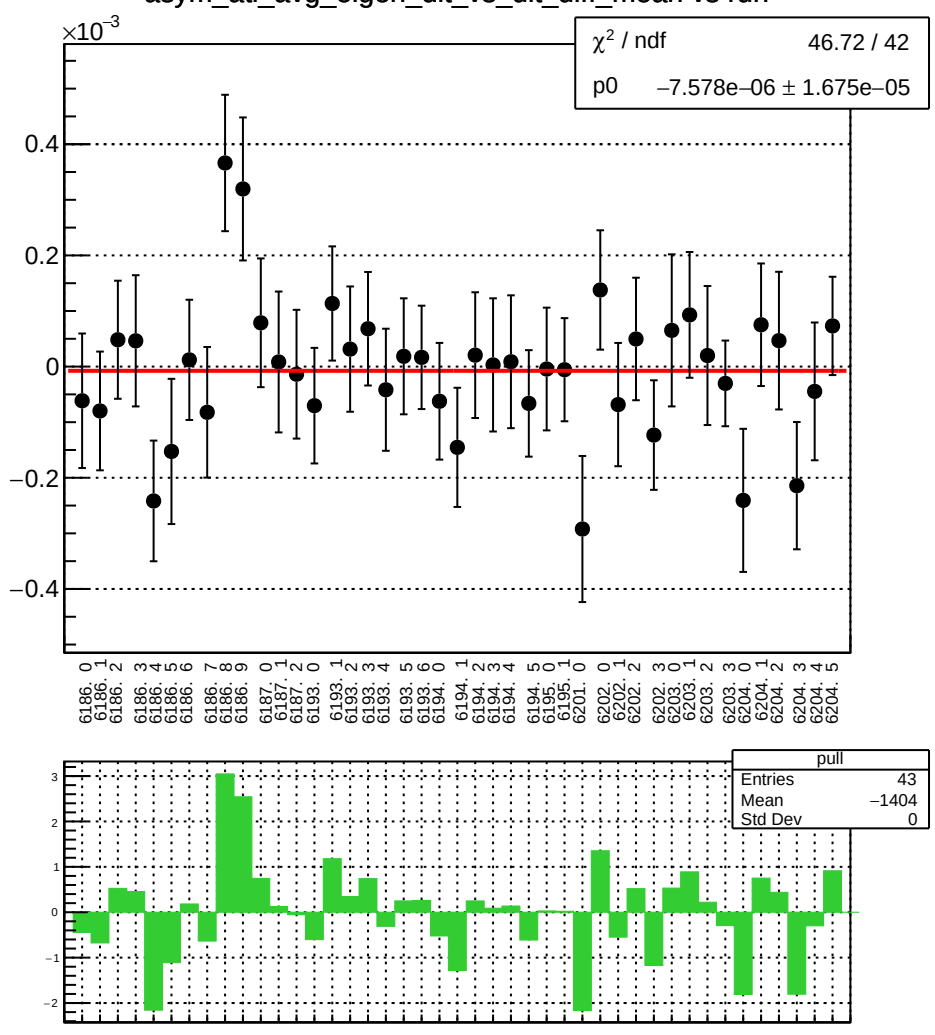


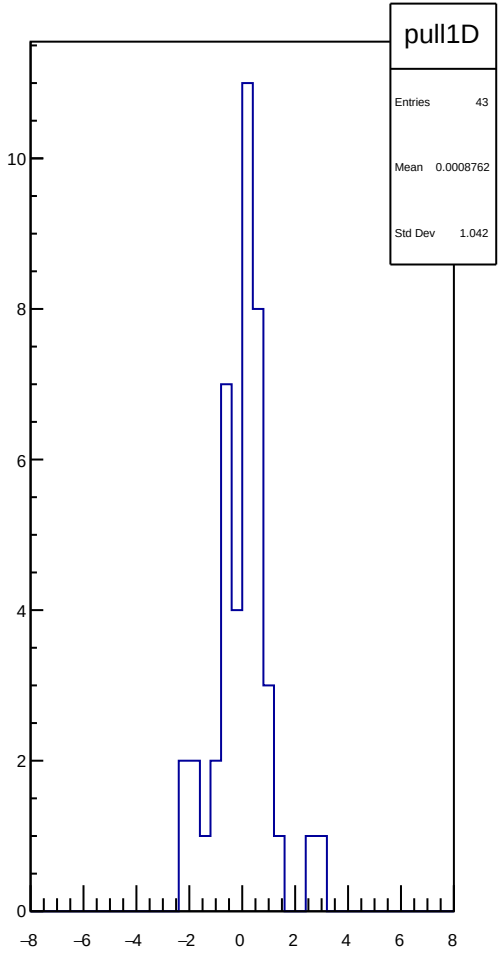


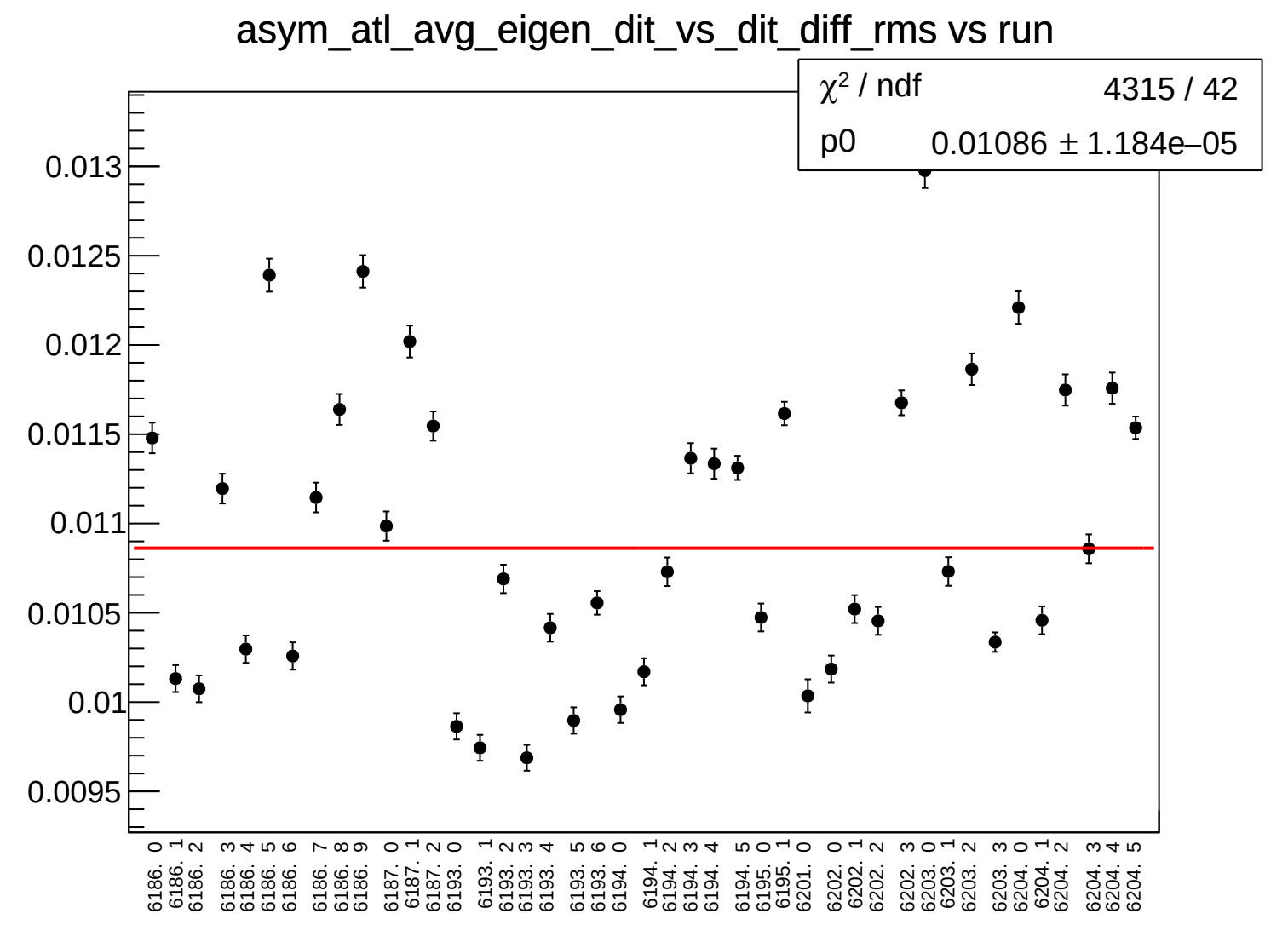

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.729e+04 / 42
p0 114.7 ± 0.1292
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

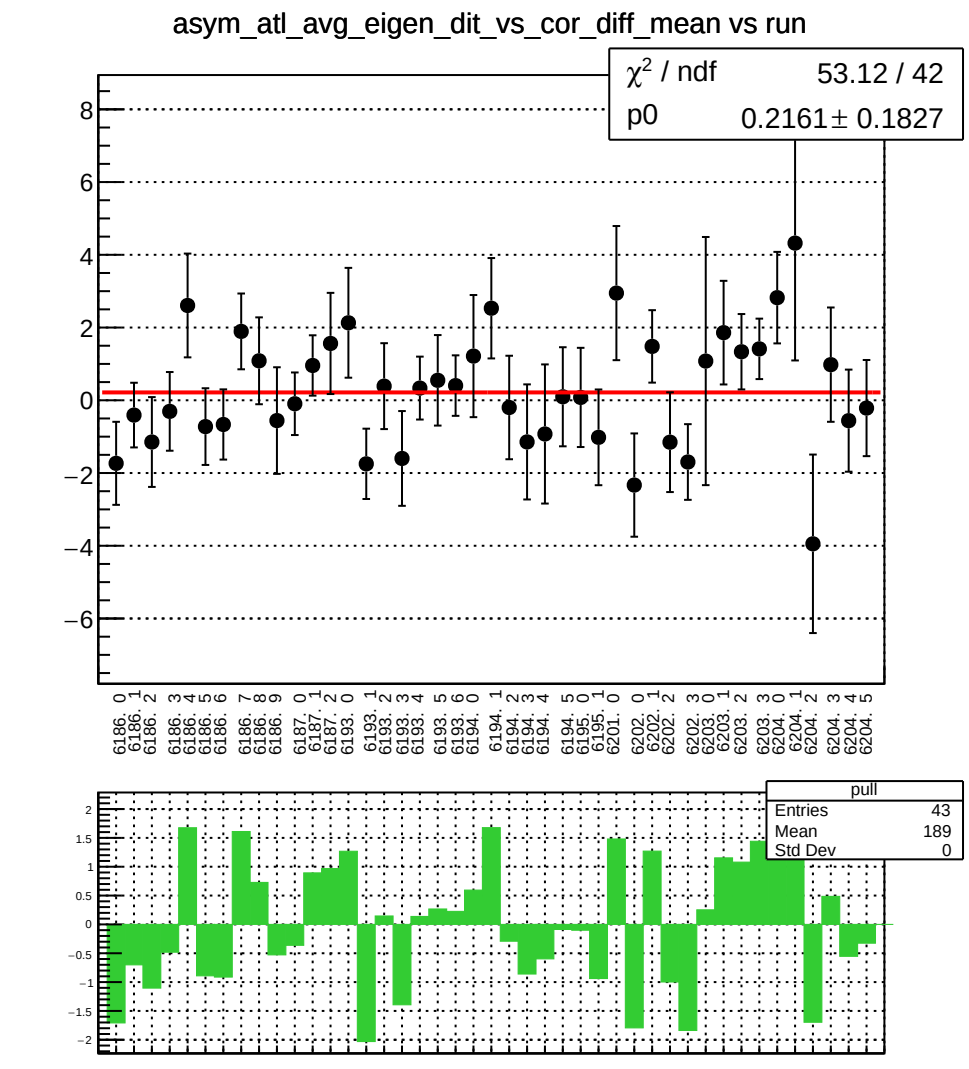

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.12 / 42
p0 0.2161± 0.1827
8
6
4
2
0
−2
−4
−6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 189
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01176
Std Dev 1.111
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

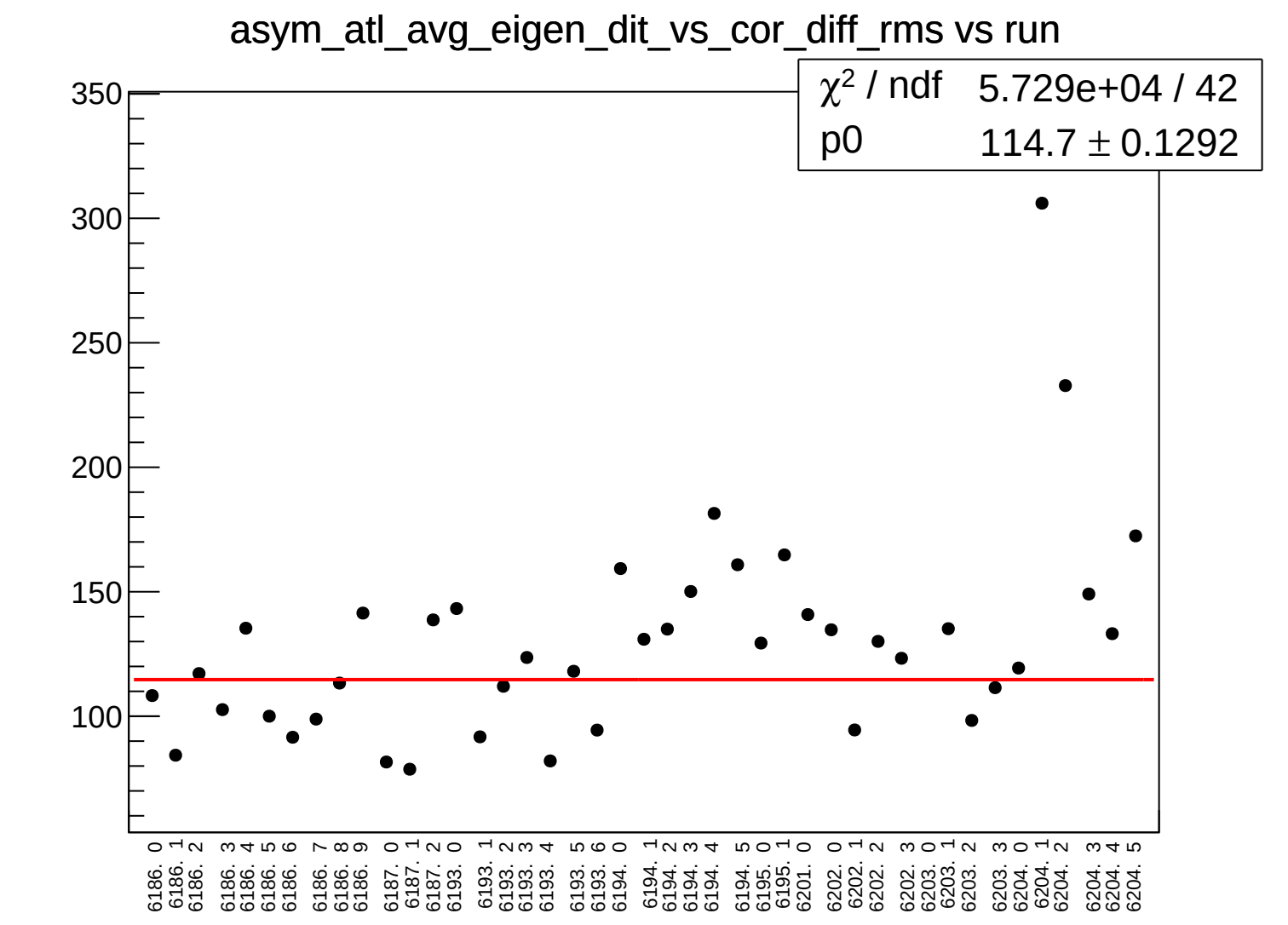

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.729e+04 / 42
p0 114.7 ± 0.1292
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

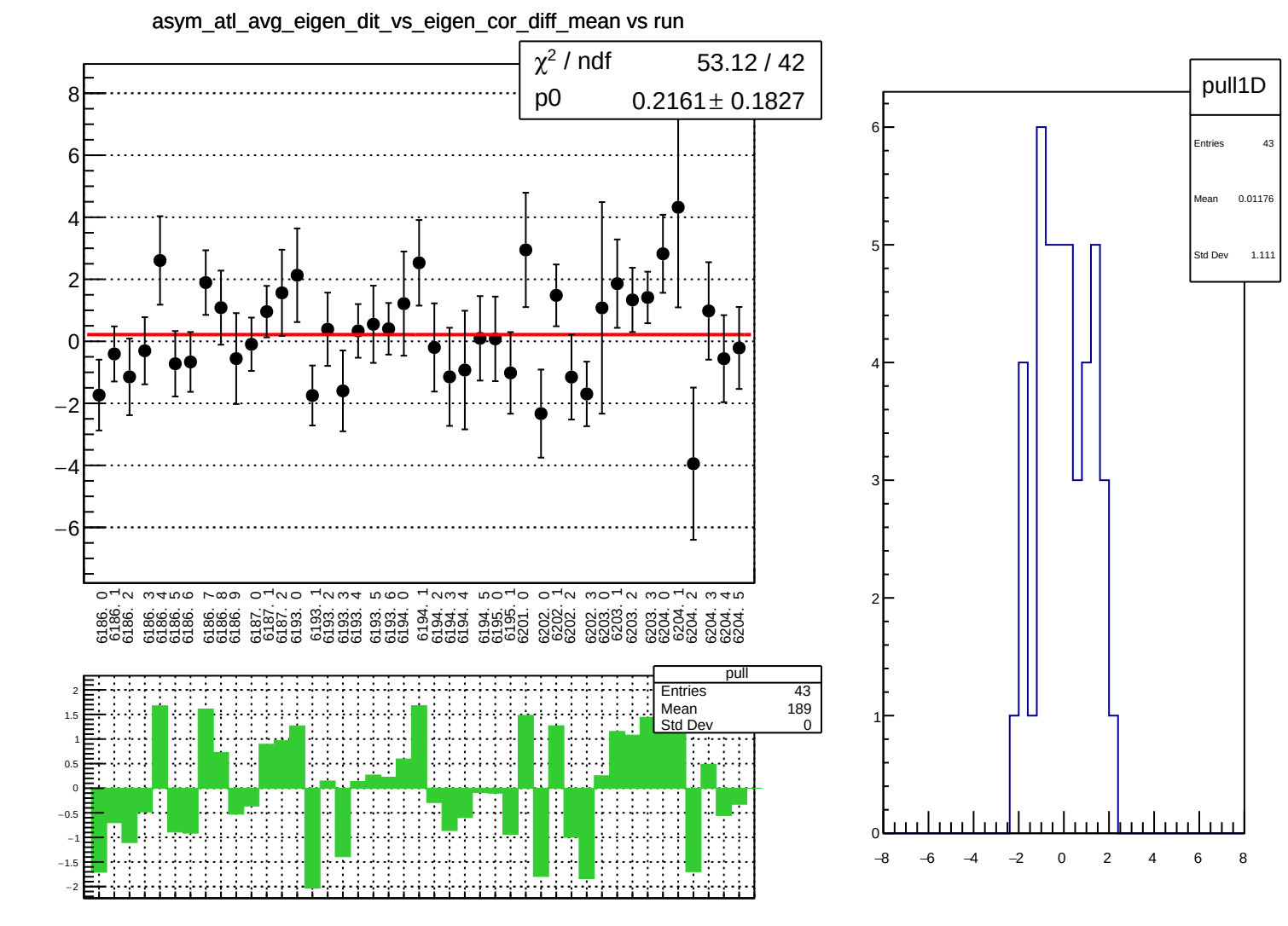

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 46.72 / 42
p0 −7.578e−06 ± 1.675e−05
0.4
0.2
0
−0.2
−0.4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1404
Std Dev 0
3
2
1
0
−1
−2

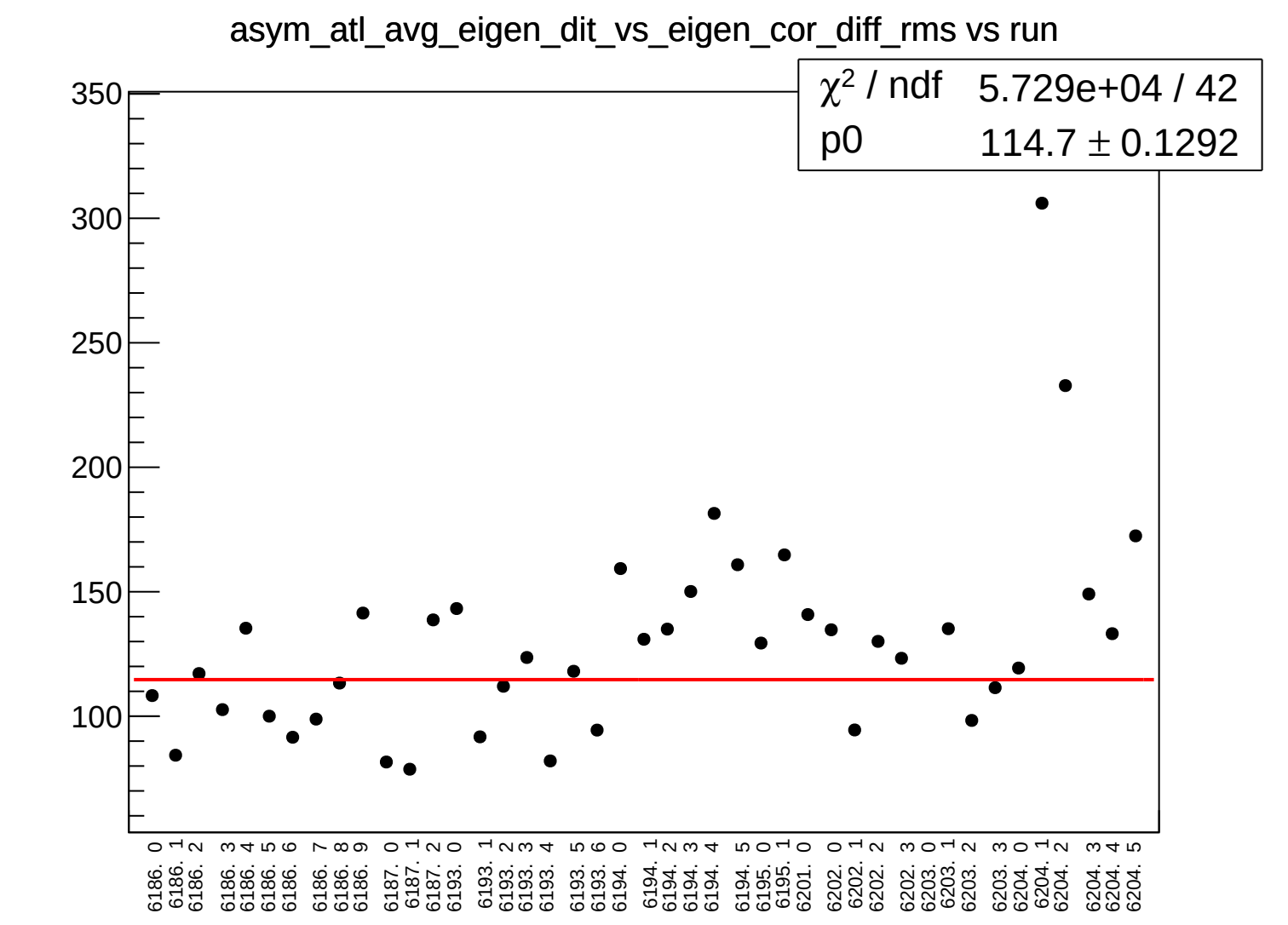

pull1D
Entries 43
Mean 0.0008762
Std Dev 1.042
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

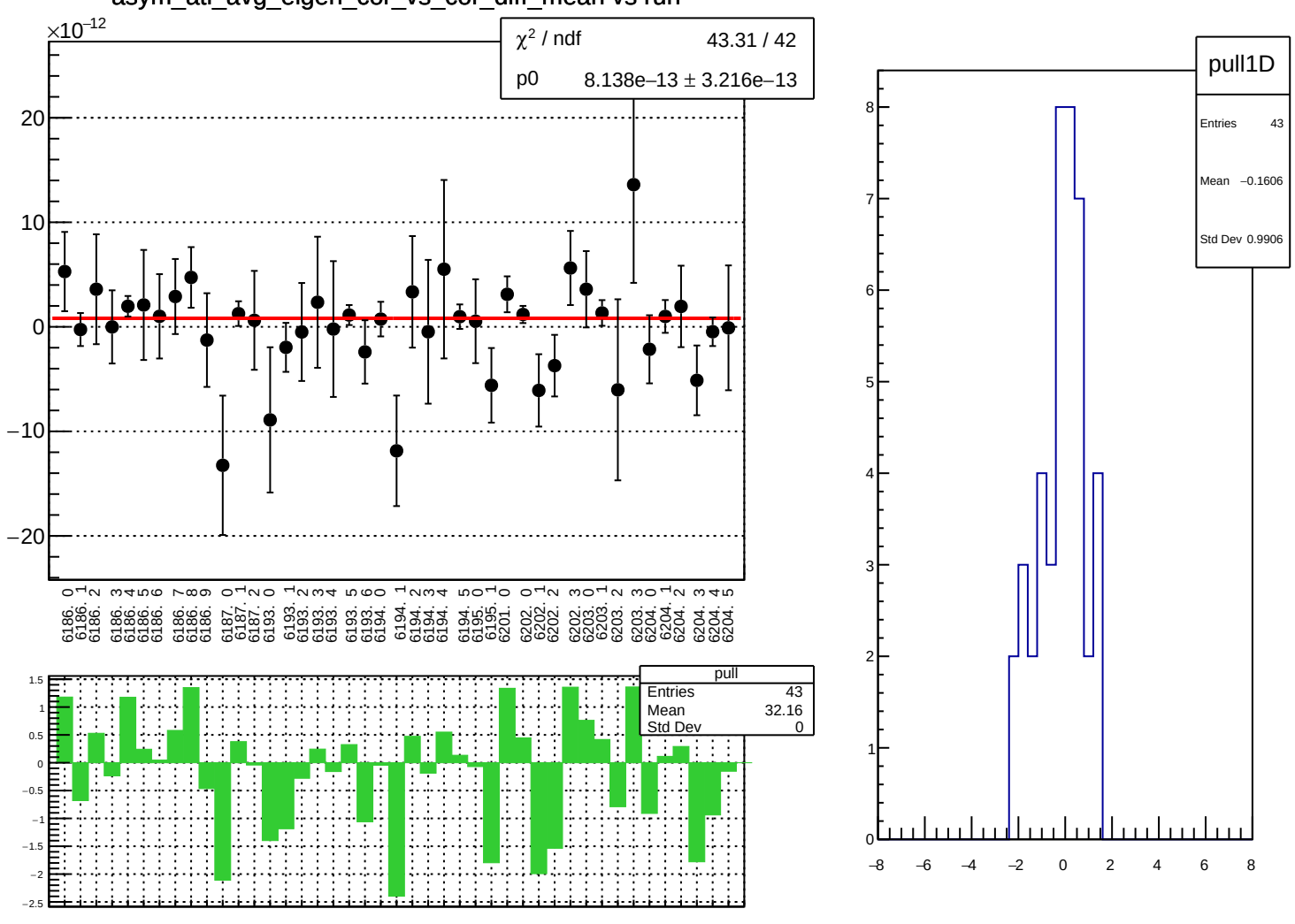

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4315 / 42
p0 0.01086 ± 1.184e−05
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

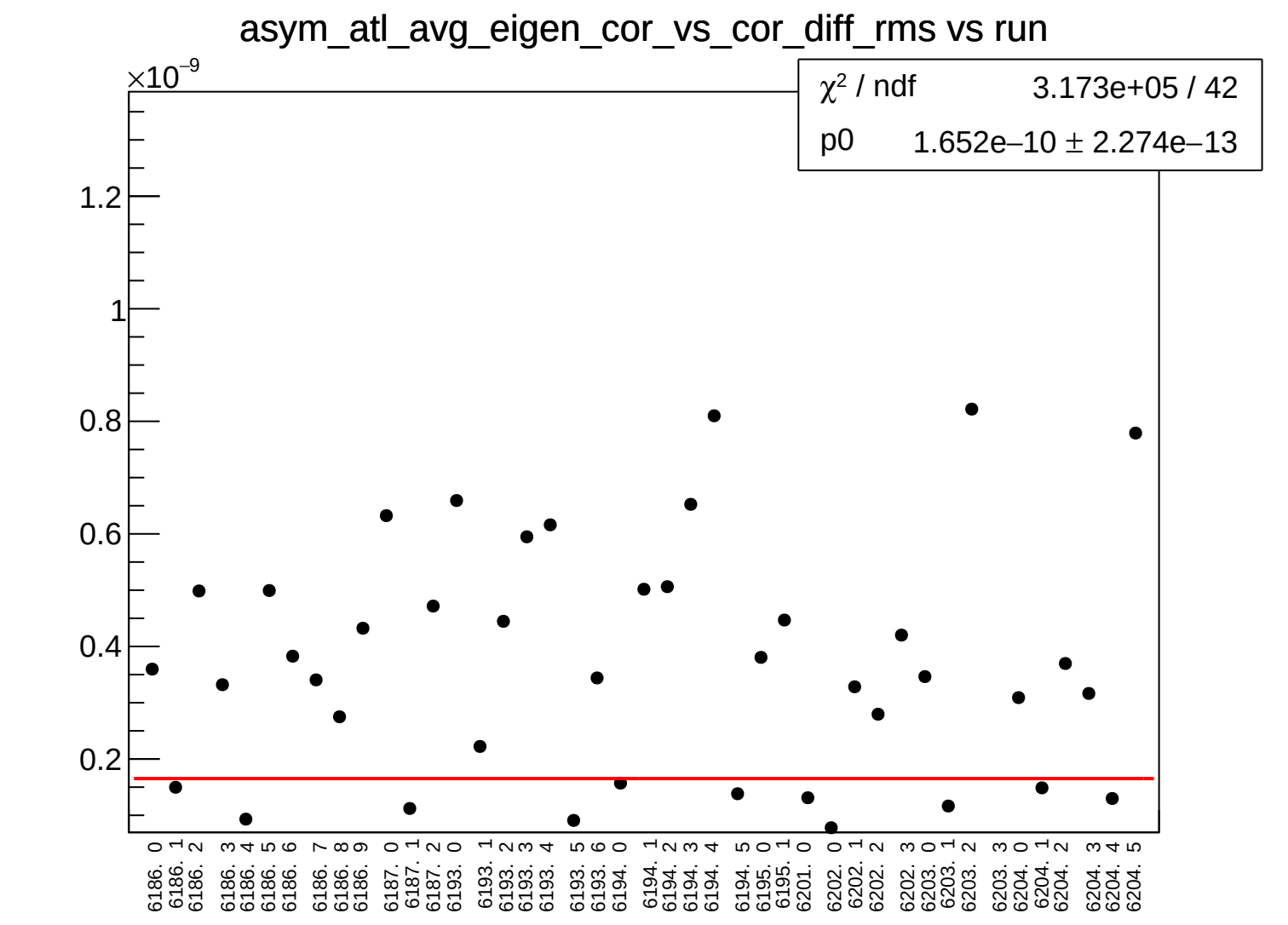

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 53.12 / 42
p0 0.2161± 0.1827
8
6
4
2
0
−2
−4
−6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 189
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01176
Std Dev 1.111
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

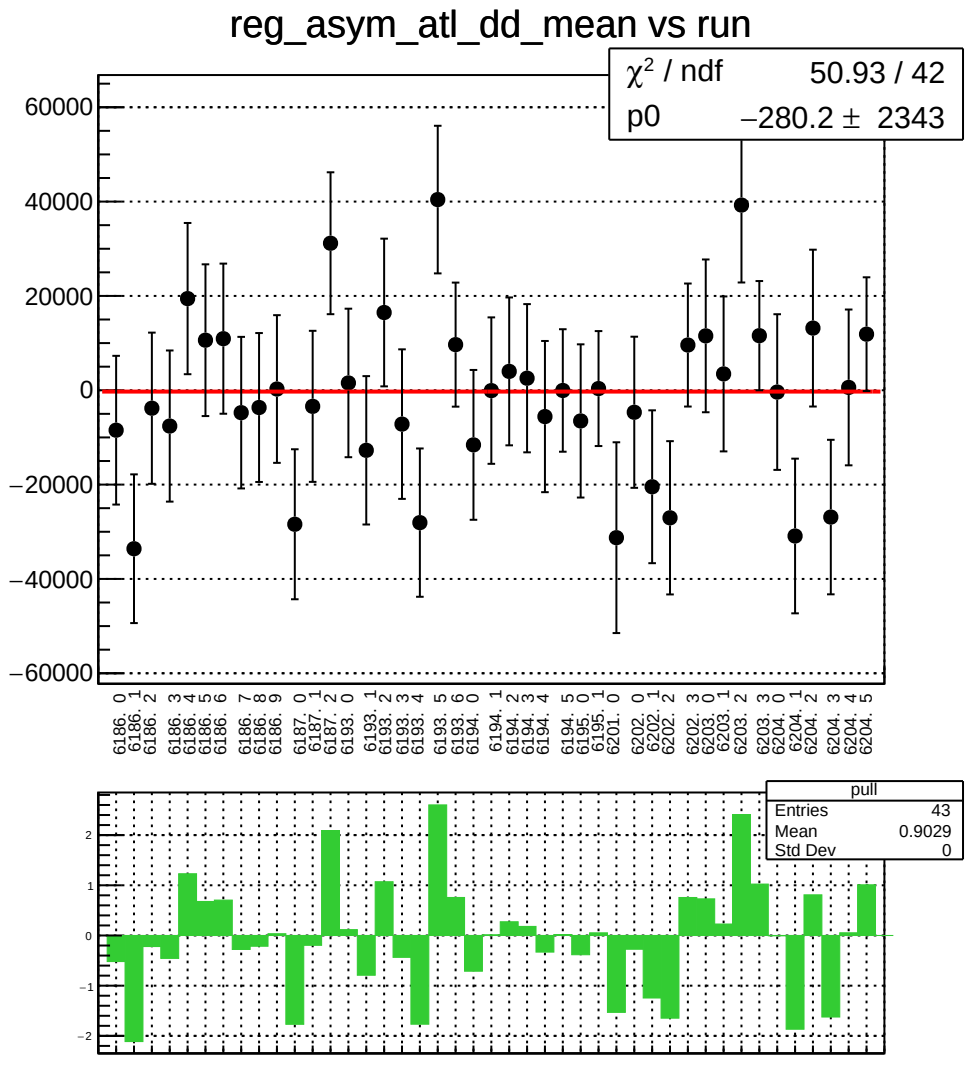

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.729e+04 / 42
p0 114.7 ± 0.1292
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

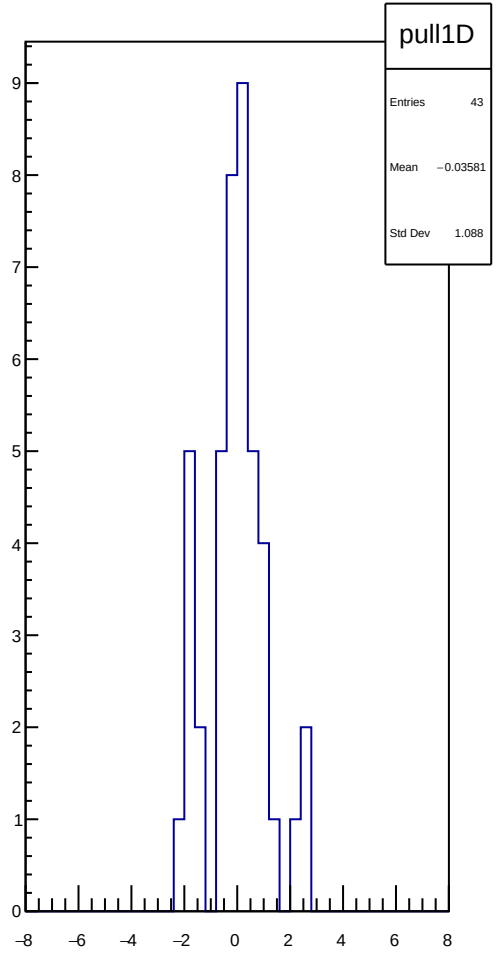

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.12 / 42
p0 0.2161± 0.1827
pull
Entries 43
Mean 189
Std Dev 0
pull1D
Entries 43
Mean 0.01176
Std Dev 1.111

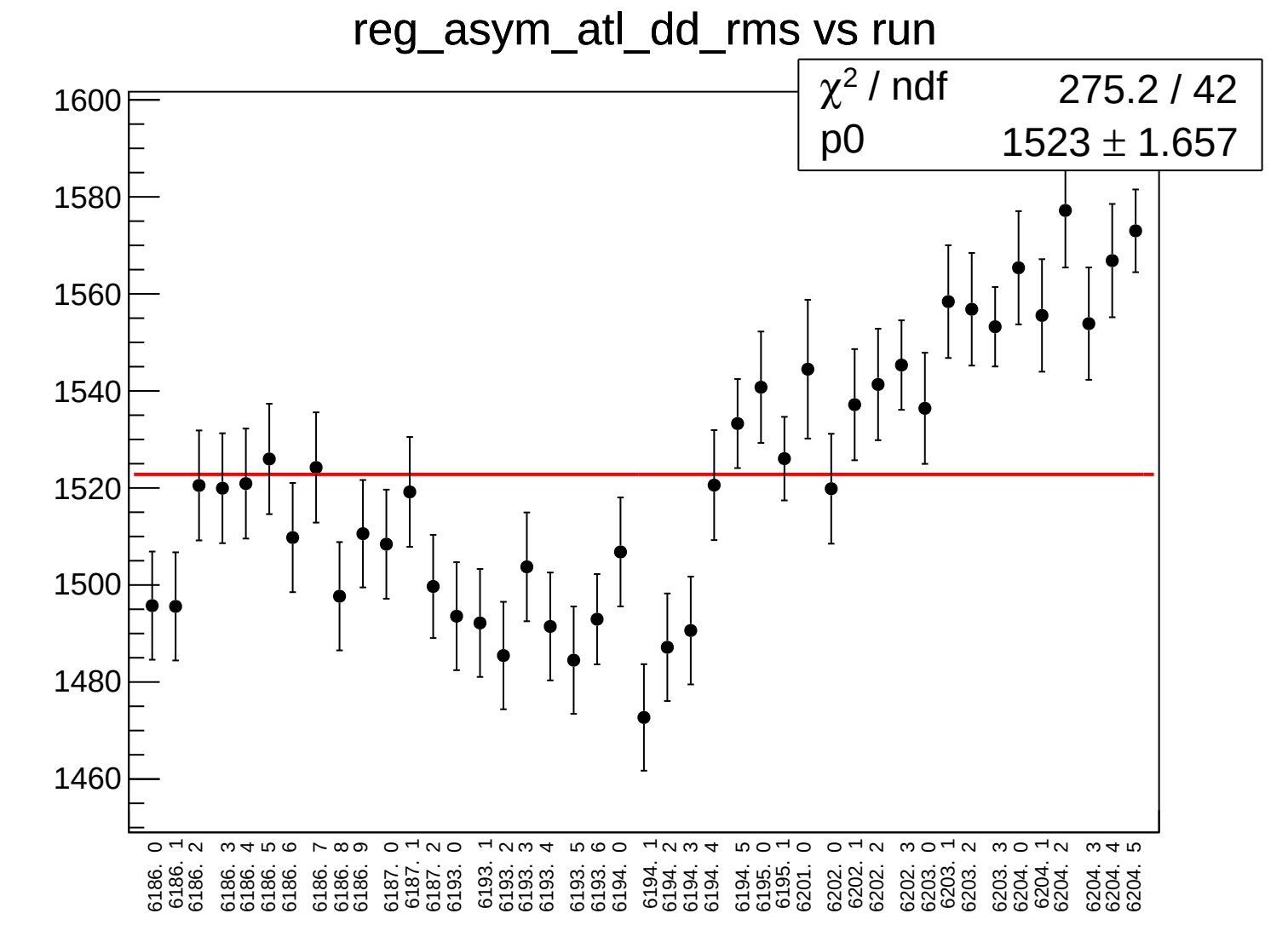

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.729e+04 / 42
p0 114.7 ± 0.1292
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

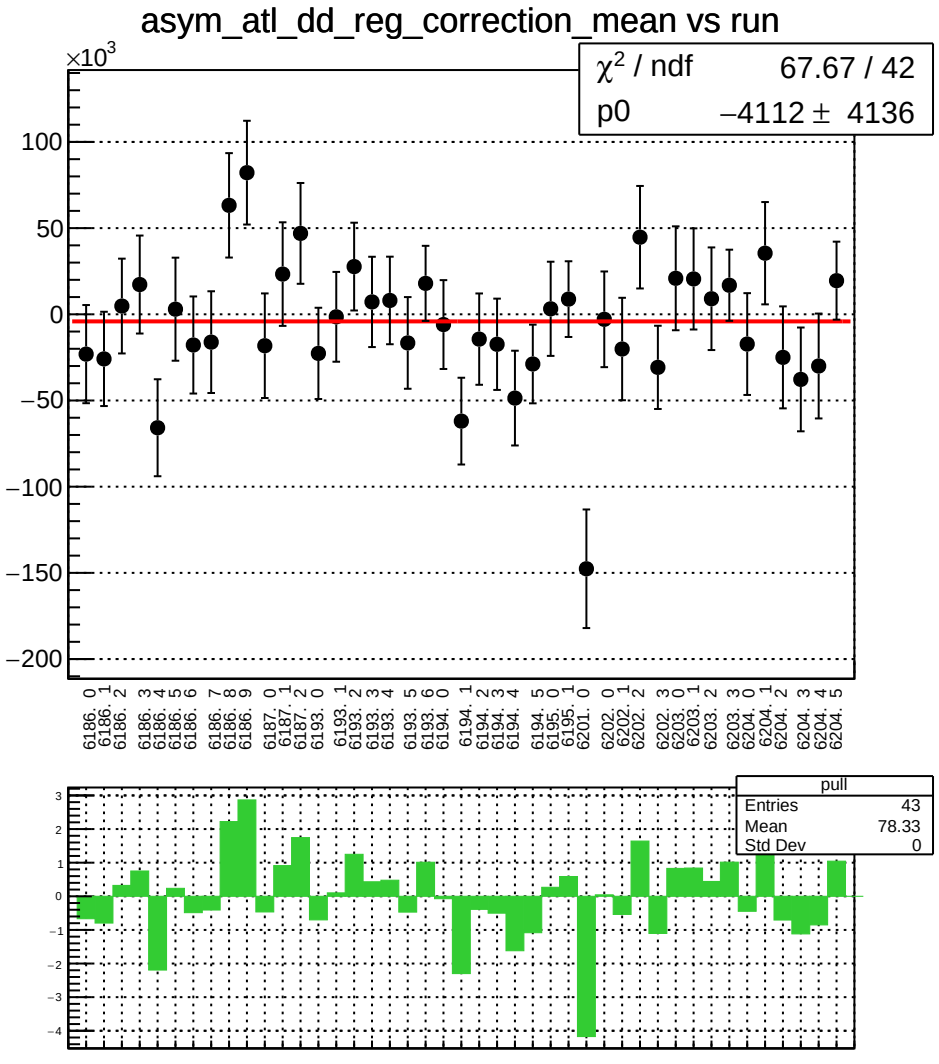

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.31 / 42
p0 8.138e−13 ± 3.216e−13
20
10
0
−10
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 32.16
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.1606
Std Dev 0.9906
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

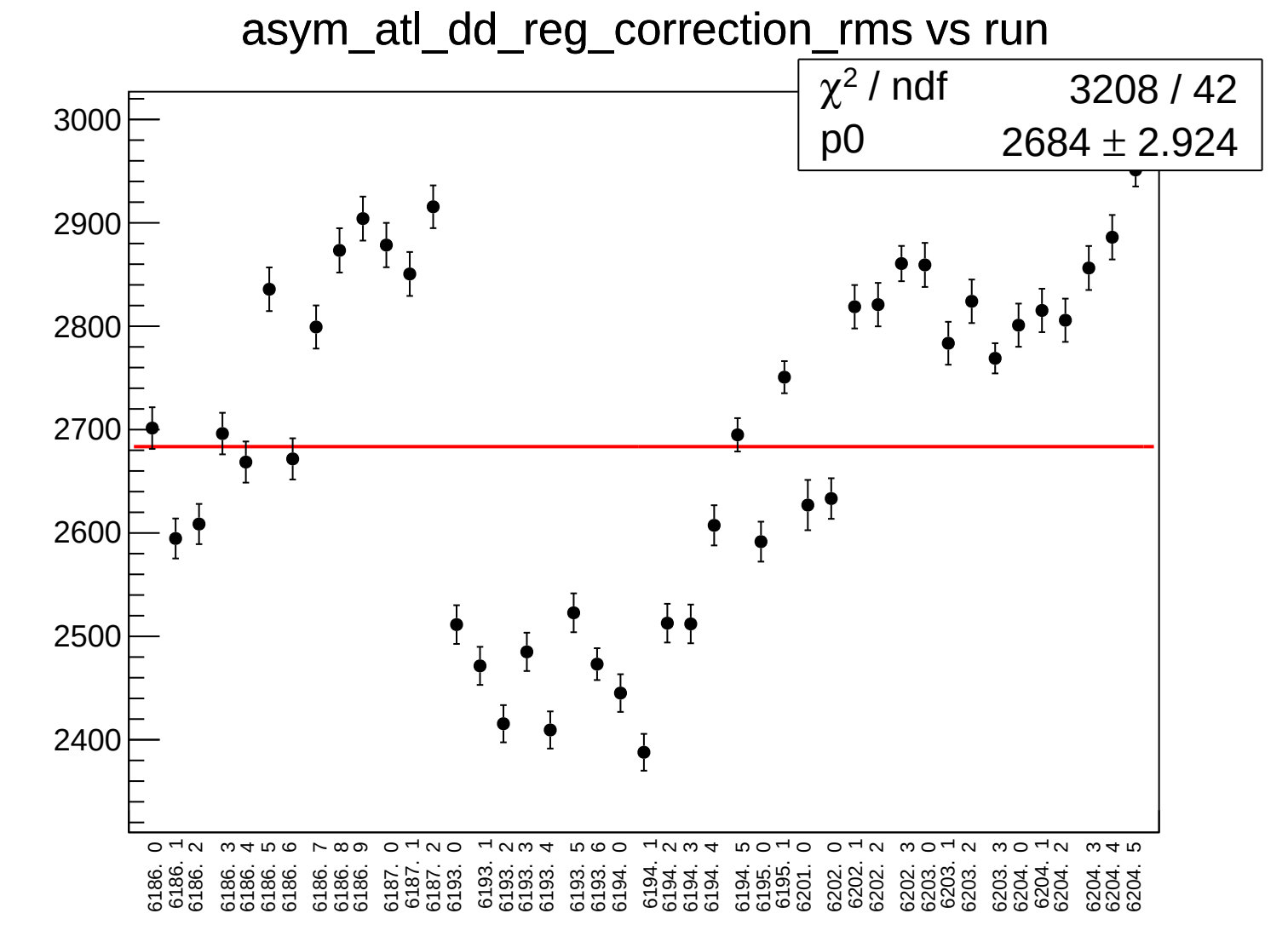

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.173e+05 / 42
p0 1.652e−10 ± 2.274e−13
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

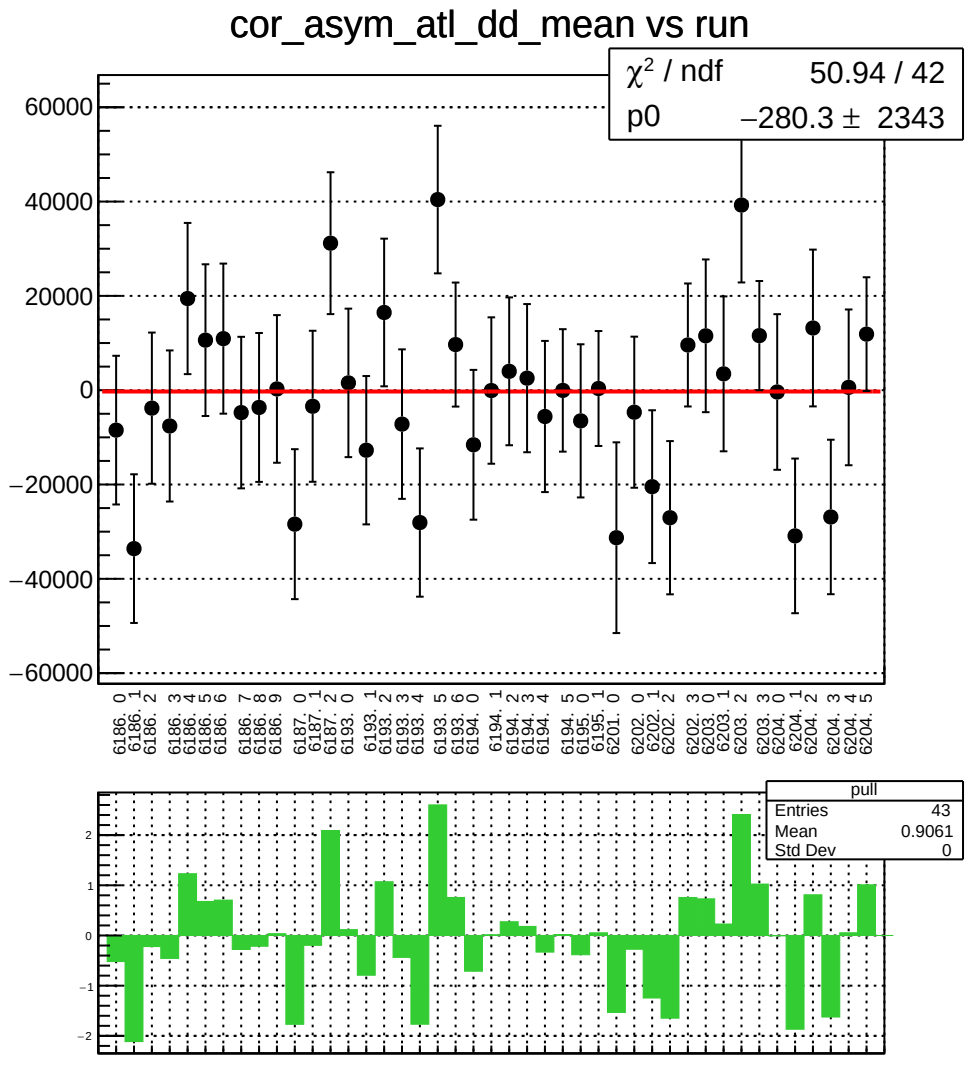

reg_asym_atl_dd_mean vs run
χ² / ndf 50.93 / 42
p0 −280.2 ± 2343
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 0.9029
Std Dev 0
2
1
0
−1
−2

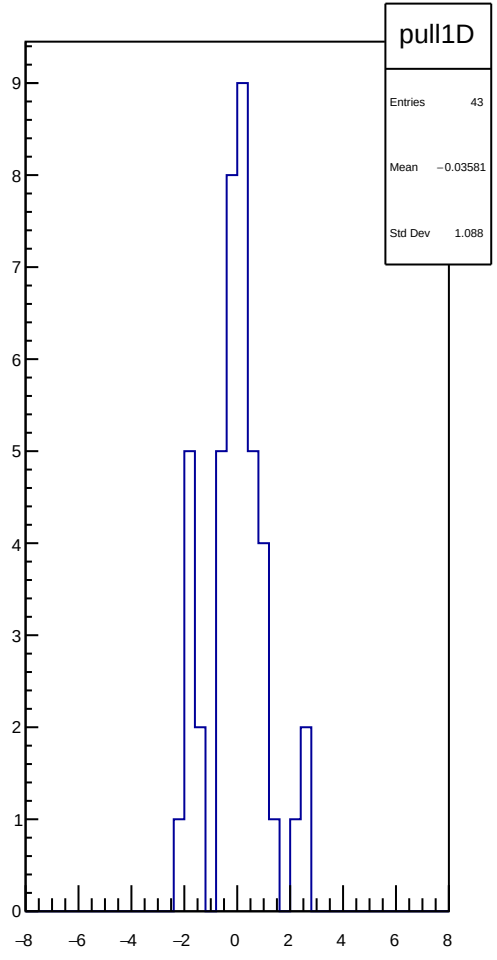

pull1D
Entries 43
Mean −0.03581
Std Dev 1.088
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

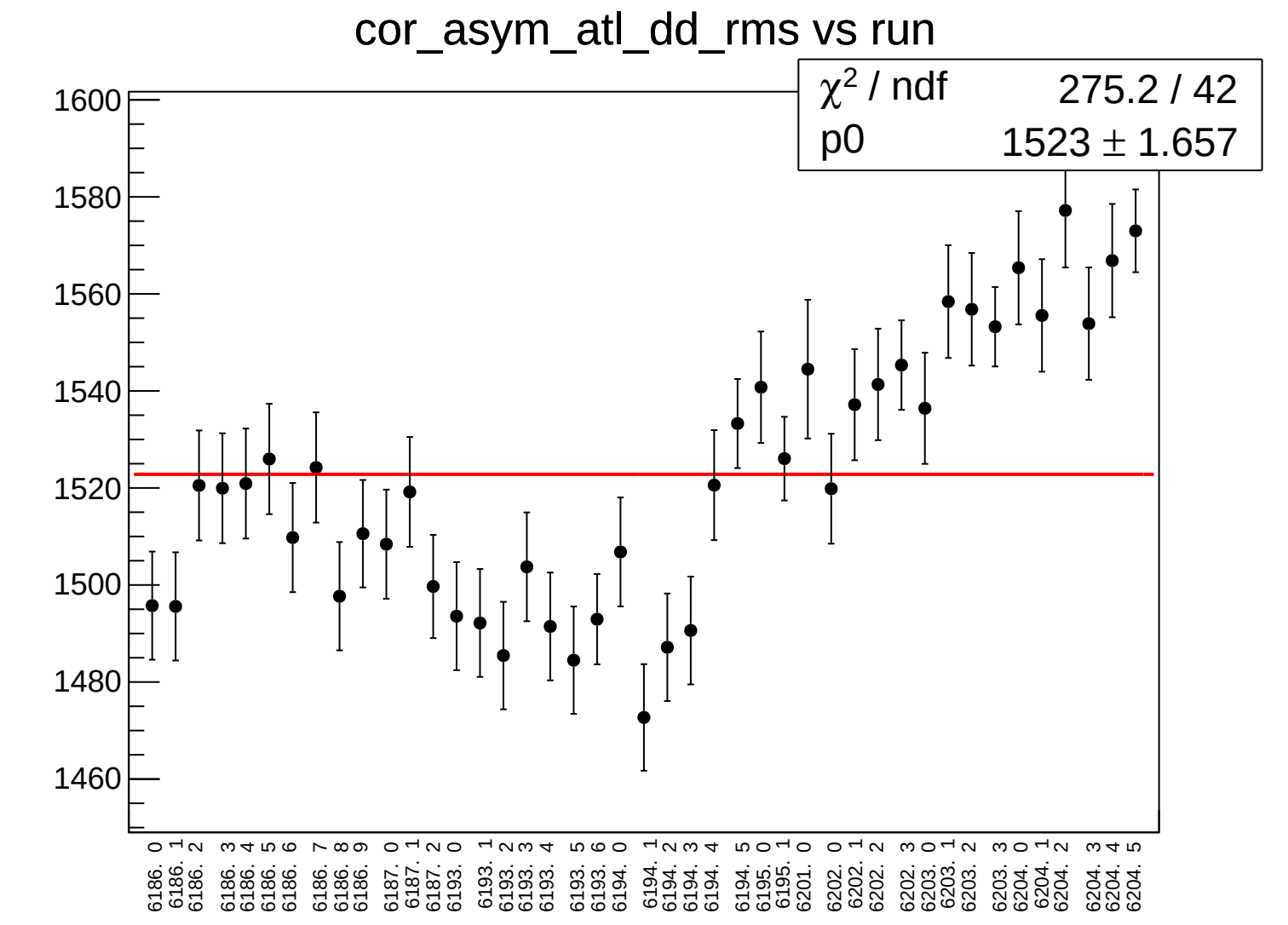

reg_asym_atl_dd_rms vs run
χ² / ndf 275.2 / 42
p0 1523 ± 1.657
1600
1580
1560
1540
1520
1500
1480
1460
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

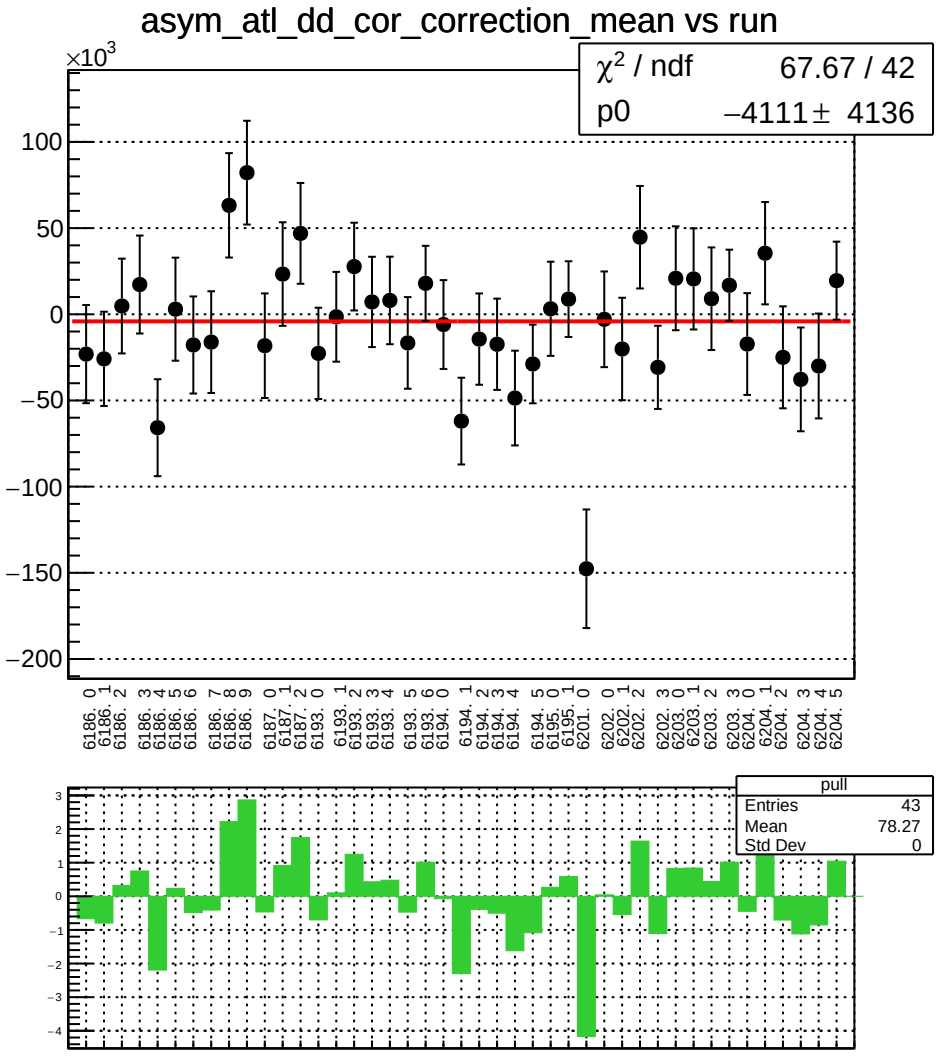

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 67.67 / 42
p0 −4112 ± 4136
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 78.33
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.01631
Std Dev 1.254
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

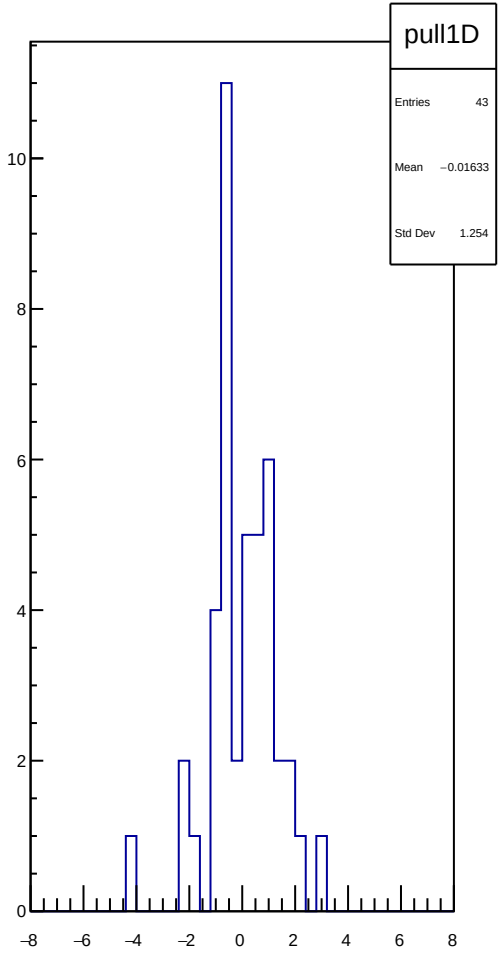

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 3208 / 42
p0 2684 ± 2.924
3000
2900
2800
2700
2600
2500
2400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

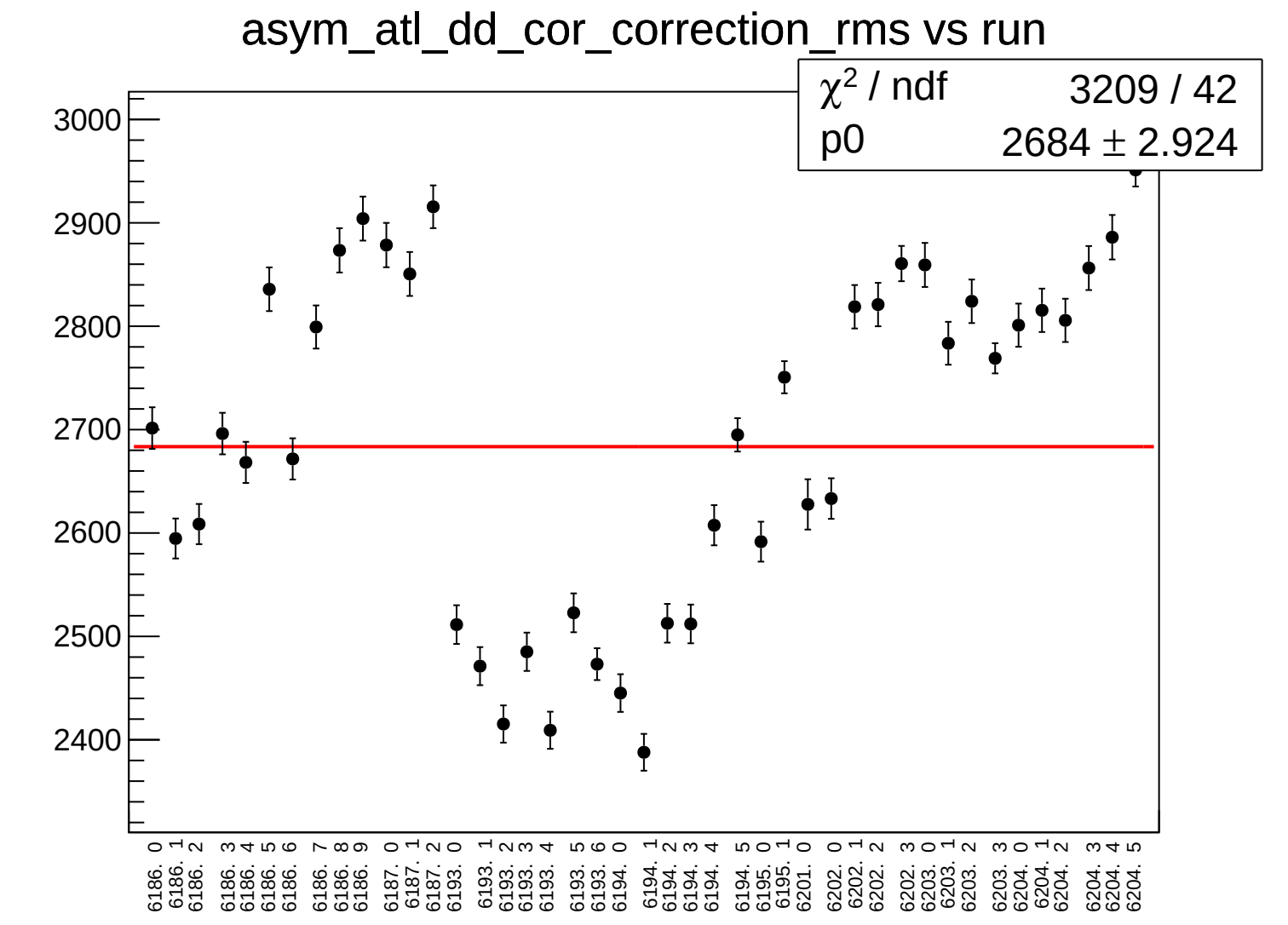

cor_asym_atl_dd_mean vs run
χ² / ndf 50.94 / 42
p0 −280.3 ± 2343
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 0.9061
Std Dev 0
2
1
0
−1
−2

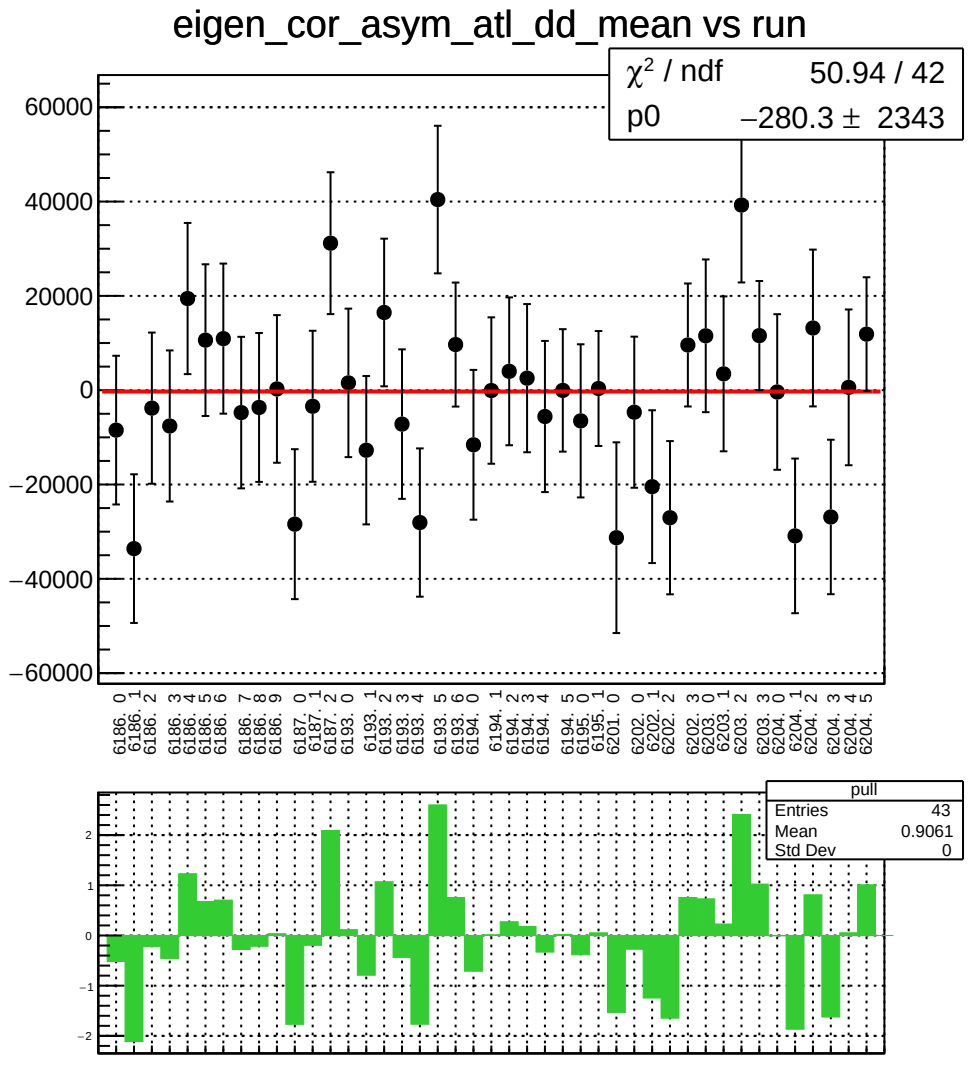

pull1D
Entries 43
Mean −0.03581
Std Dev 1.088
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

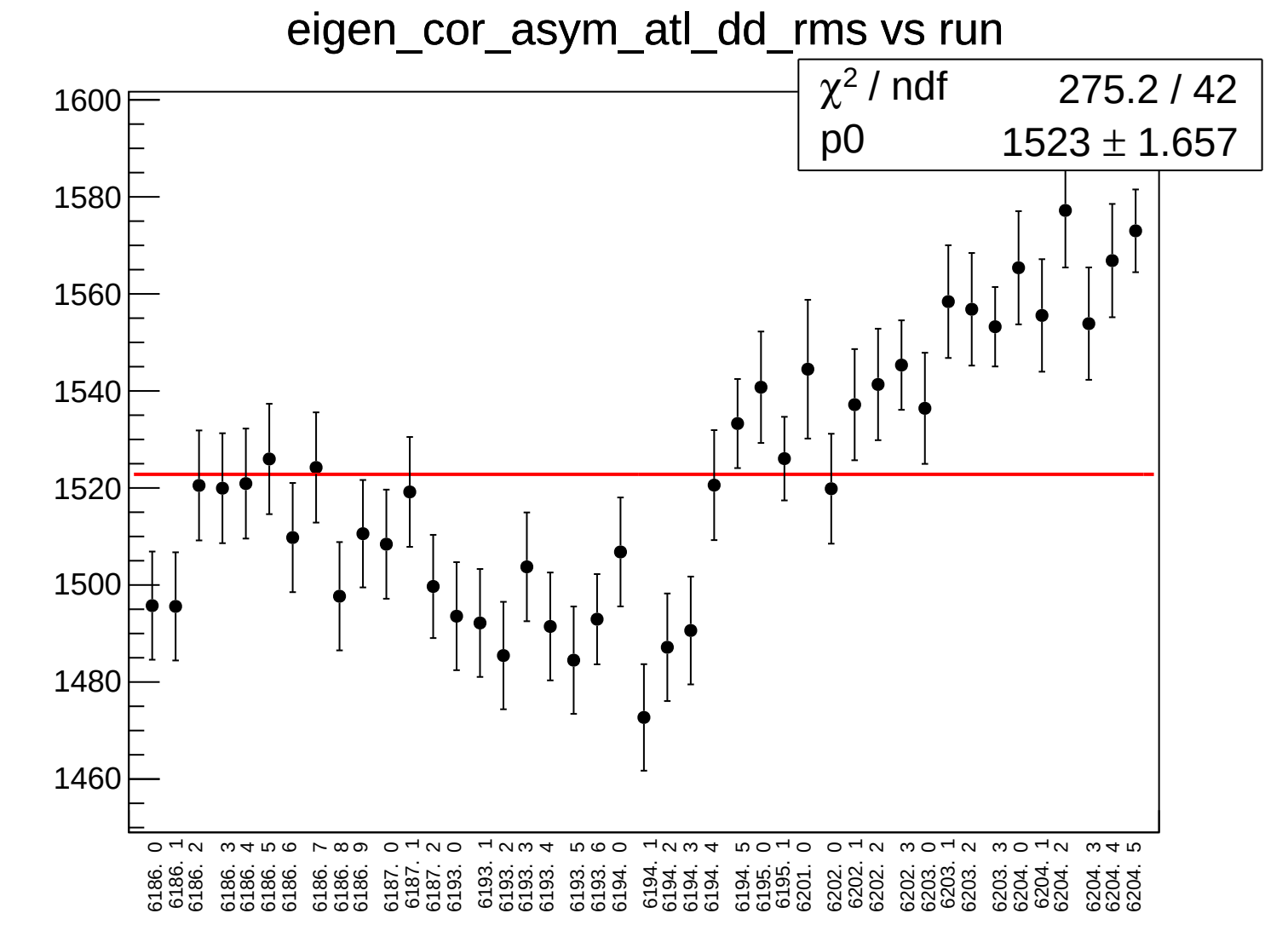

cor_asym_atl_dd_rms vs run
χ² / ndf 275.2 / 42
p0 1523 ± 1.657
1600
1580
1560
1540
1520
1500
1480
1460
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

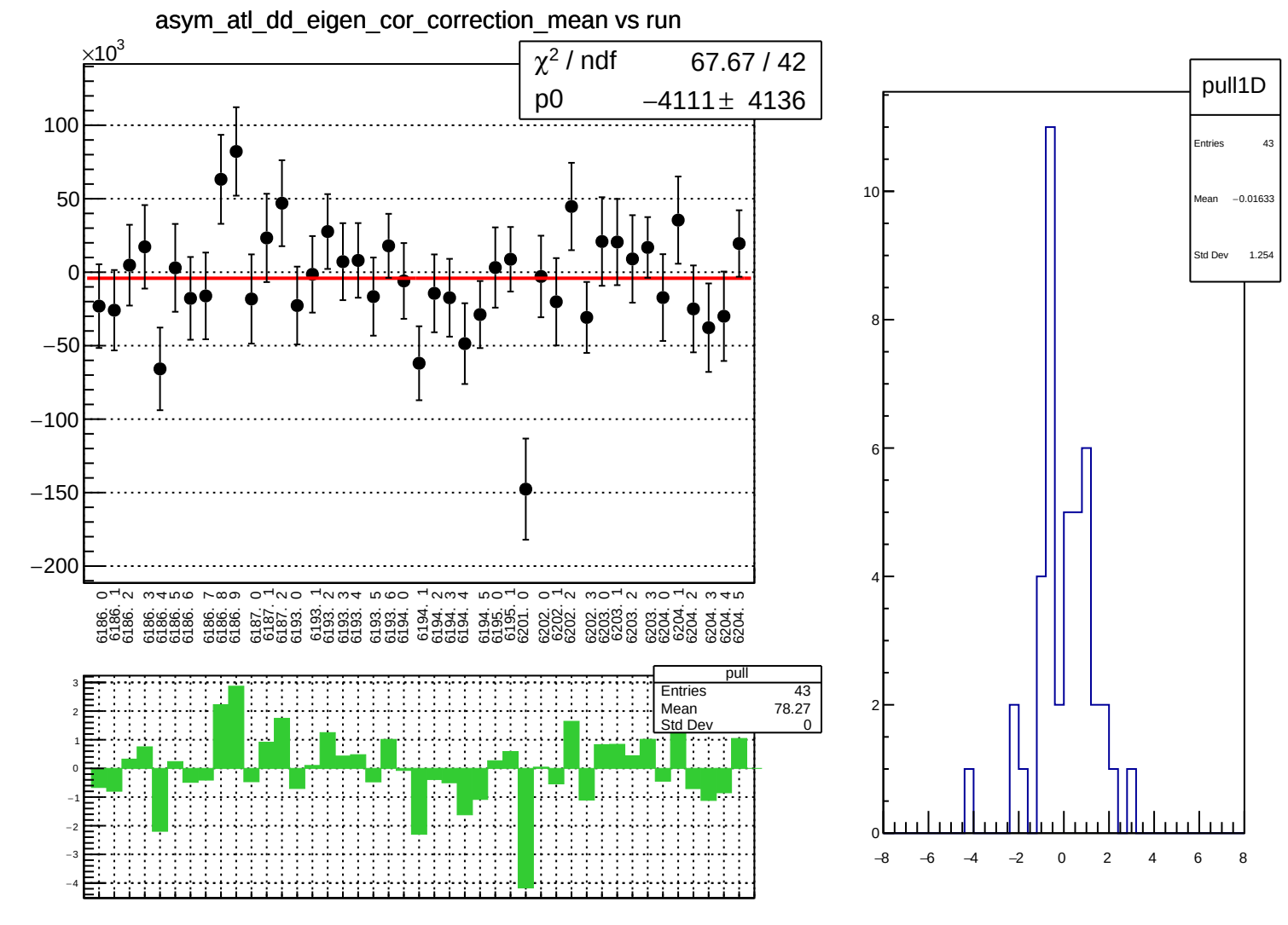

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 67.67 / 42
p0 −4111 ± 4136
×10³
pull
Entries 43
Mean 78.27
Std Dev 0

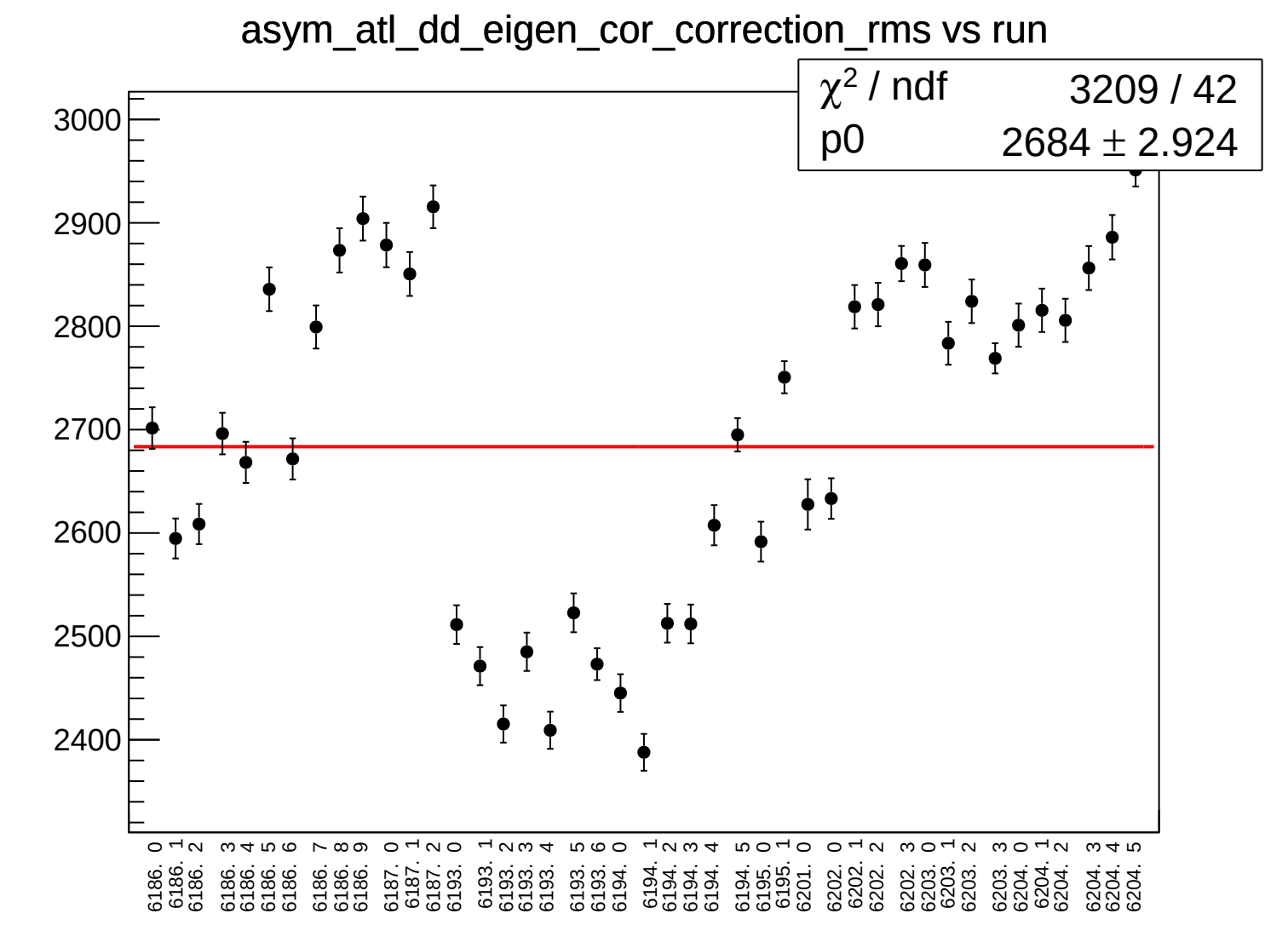

pull1D
Entries 43
Mean −0.01633
Std Dev 1.254

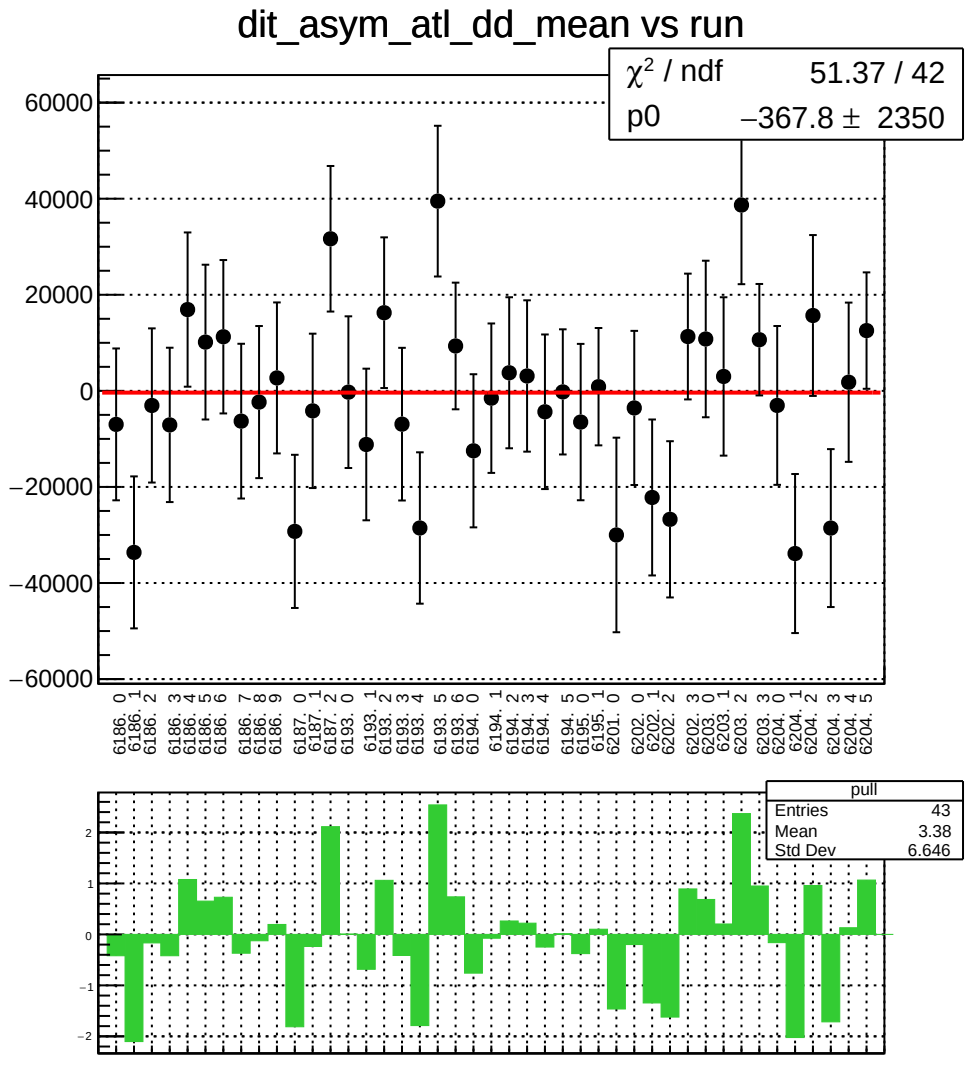

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 3209 / 42
p0 2684 ± 2.924
3000
2900
2800
2700
2600
2500
2400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

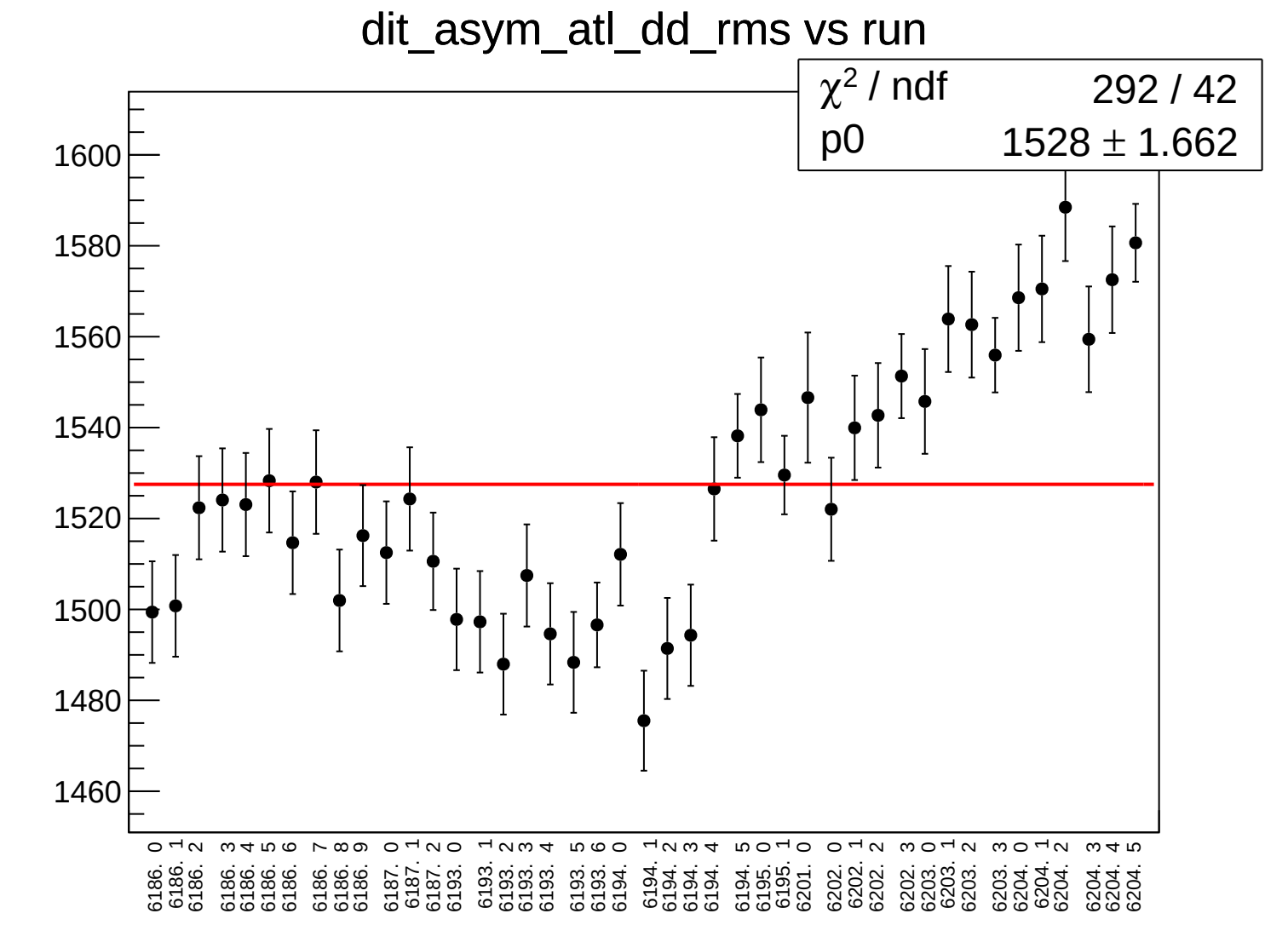

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 50.94 / 42
p0 −280.3 ± 2343
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 0.9061
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03581
Std Dev 1.088
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

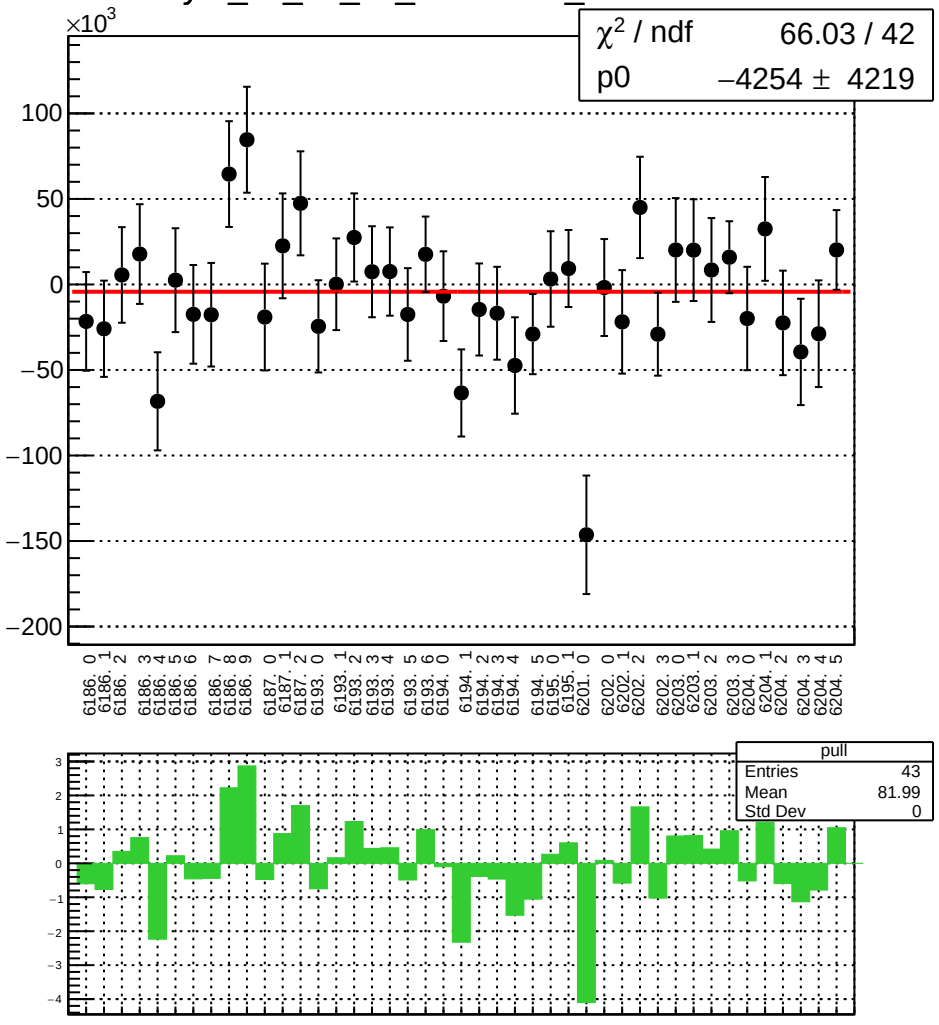

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 275.2 / 42
p0 1523 ± 1.657
1600
1580
1560
1540
1520
1500
1480
1460
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

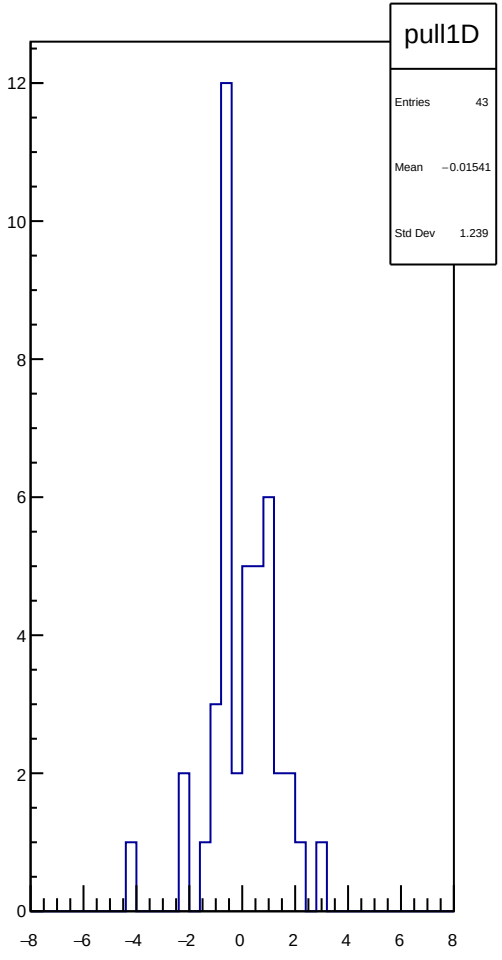

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.67 / 42
p0 −4111 ± 4136
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 78.27
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.01633
Std Dev 1.254
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

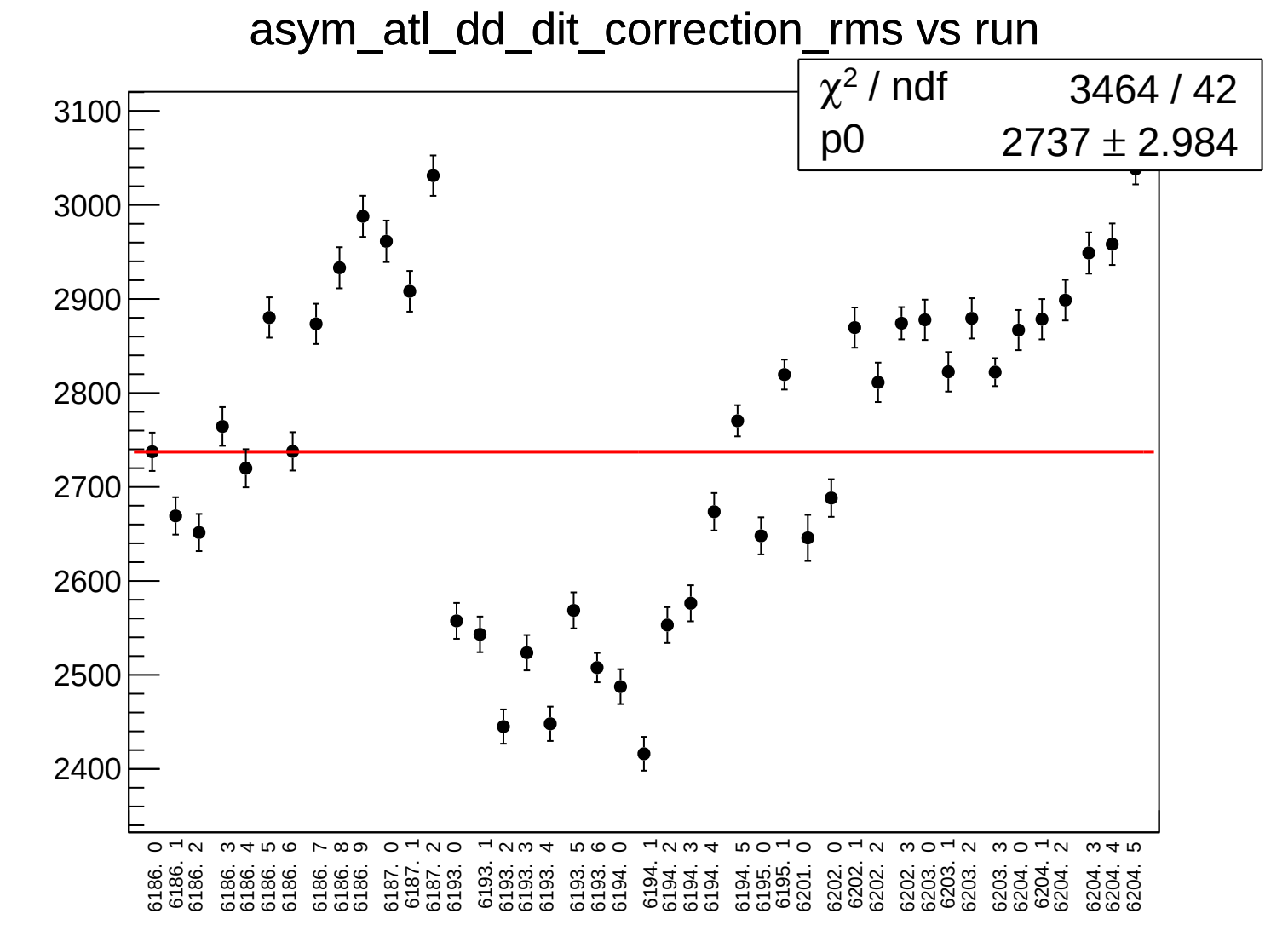

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 3209 / 42
p0 2684 ± 2.924
3000
2900
2800
2700
2600
2500
2400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

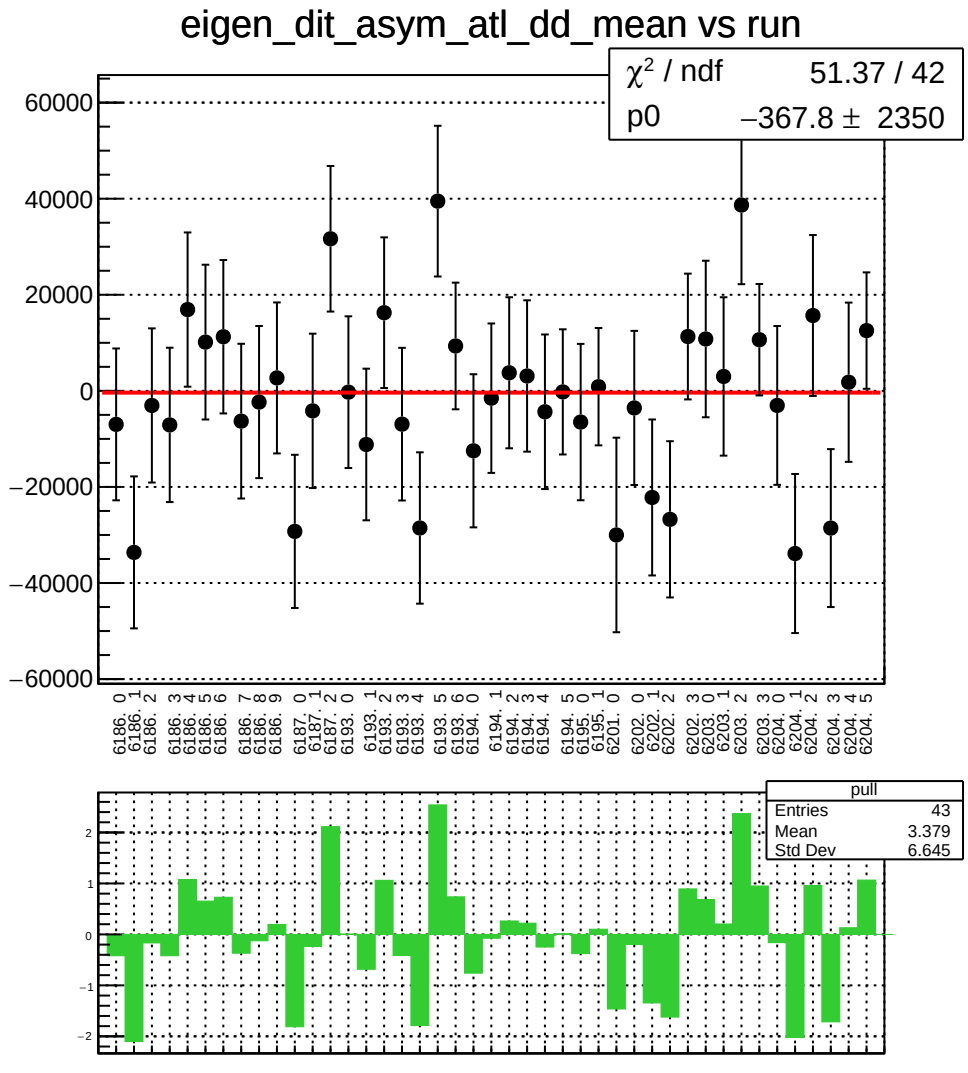

dit_asym_atl_dd_mean vs run
χ² / ndf 51.37 / 42
p0 −367.8 ± 2350
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 3.38
Std Dev 6.646
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03619
Std Dev 1.092
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

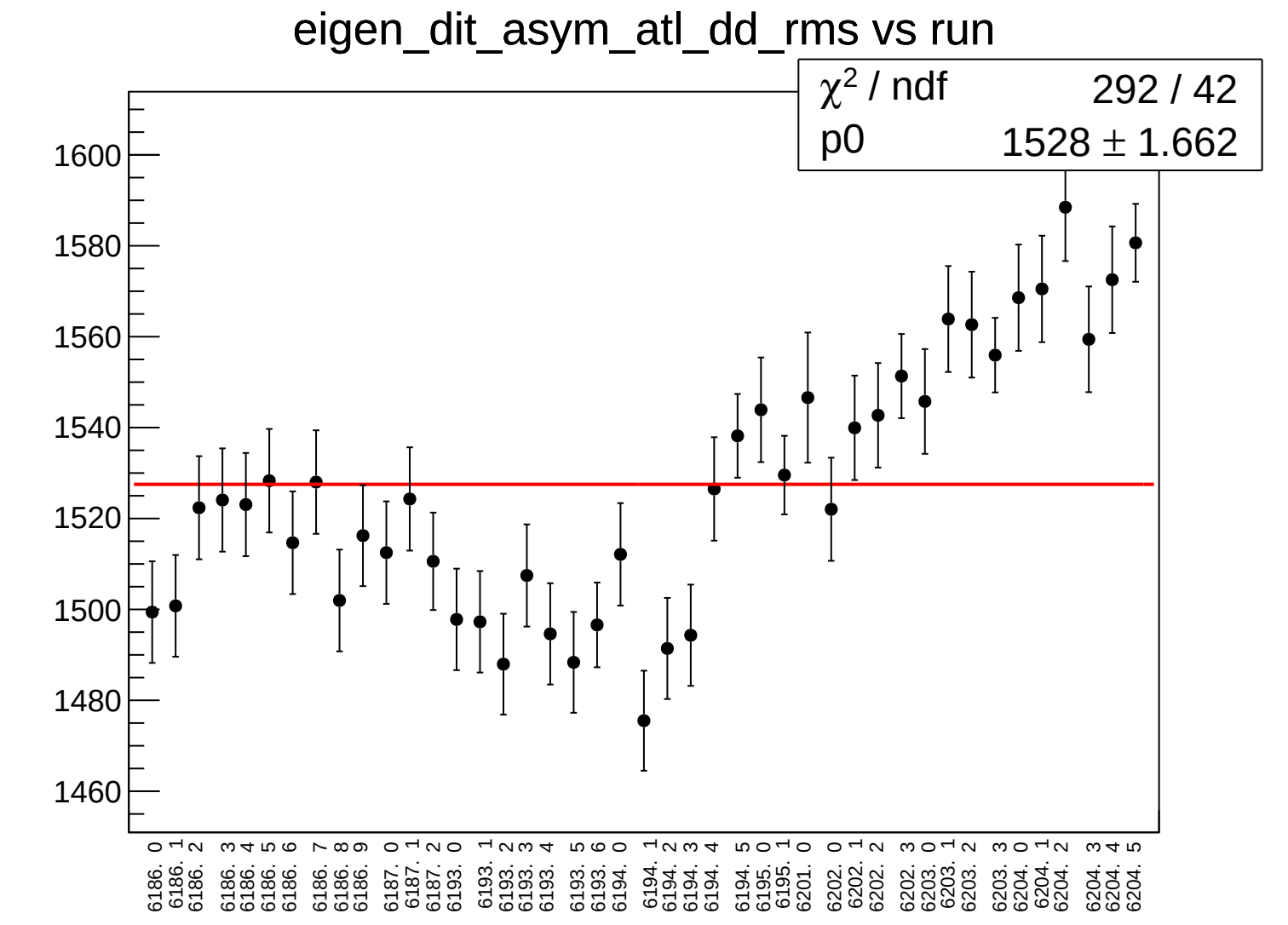

dit_asym_atl_dd_rms vs run
χ² / ndf 292 / 42
p0 1528 ± 1.662
1600
1580
1560
1540
1520
1500
1480
1460
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

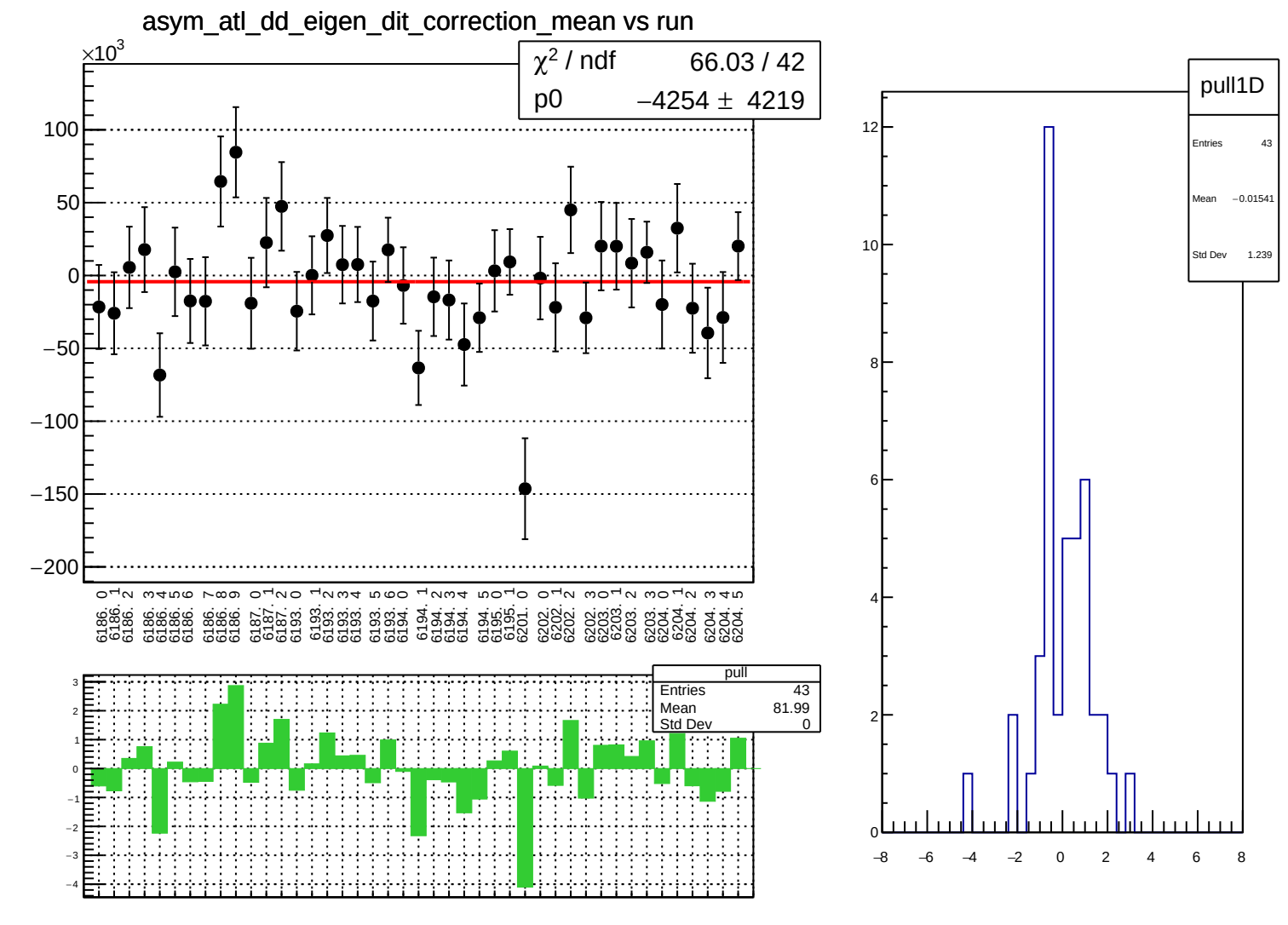

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 66.03 / 42
p0 −4254 ± 4219
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 81.99
Std Dev 0
3
2
1
0
−1
−2
−3
−4

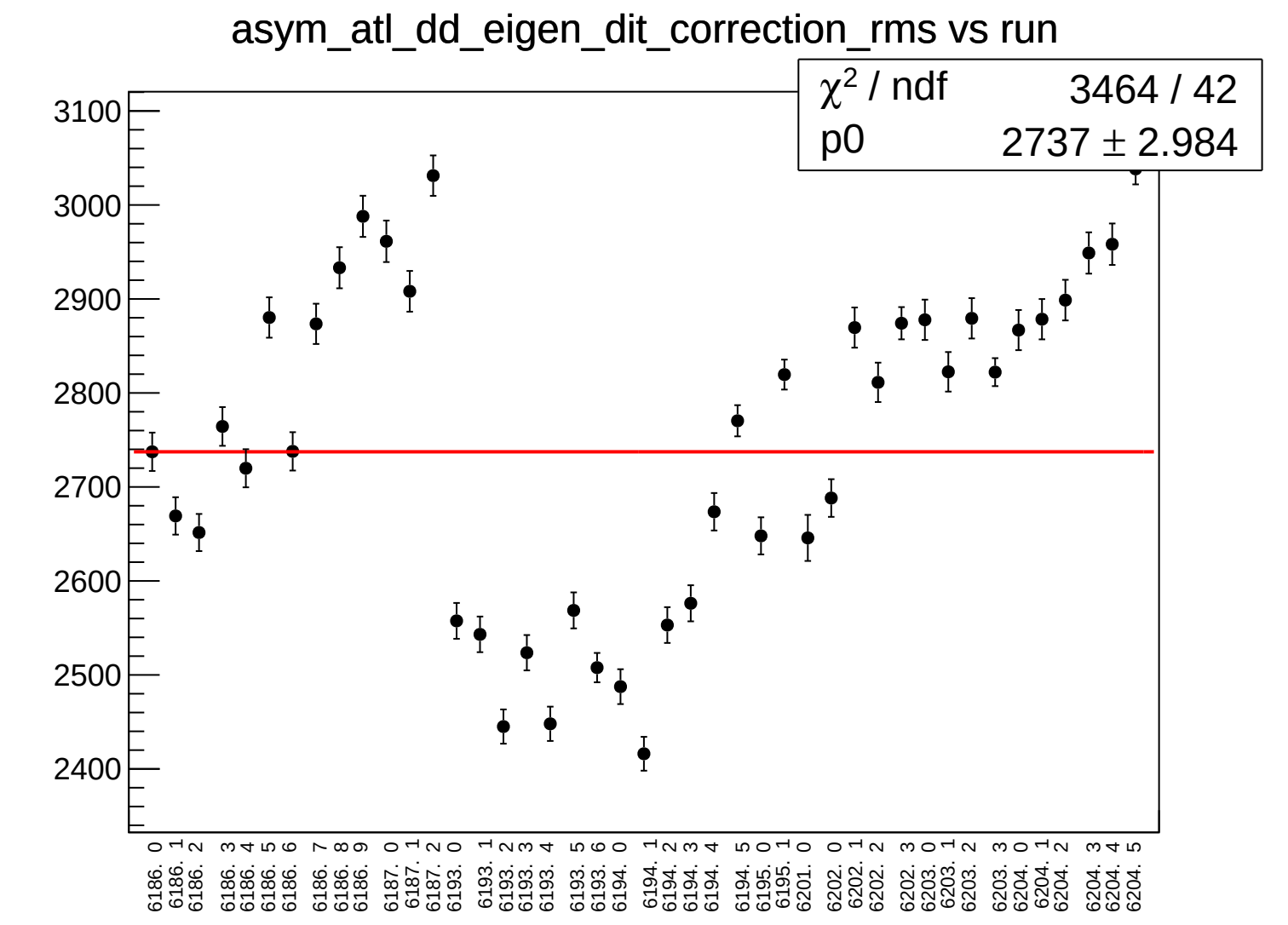

pull1D
Entries 43
Mean −0.01541
Std Dev 1.239
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

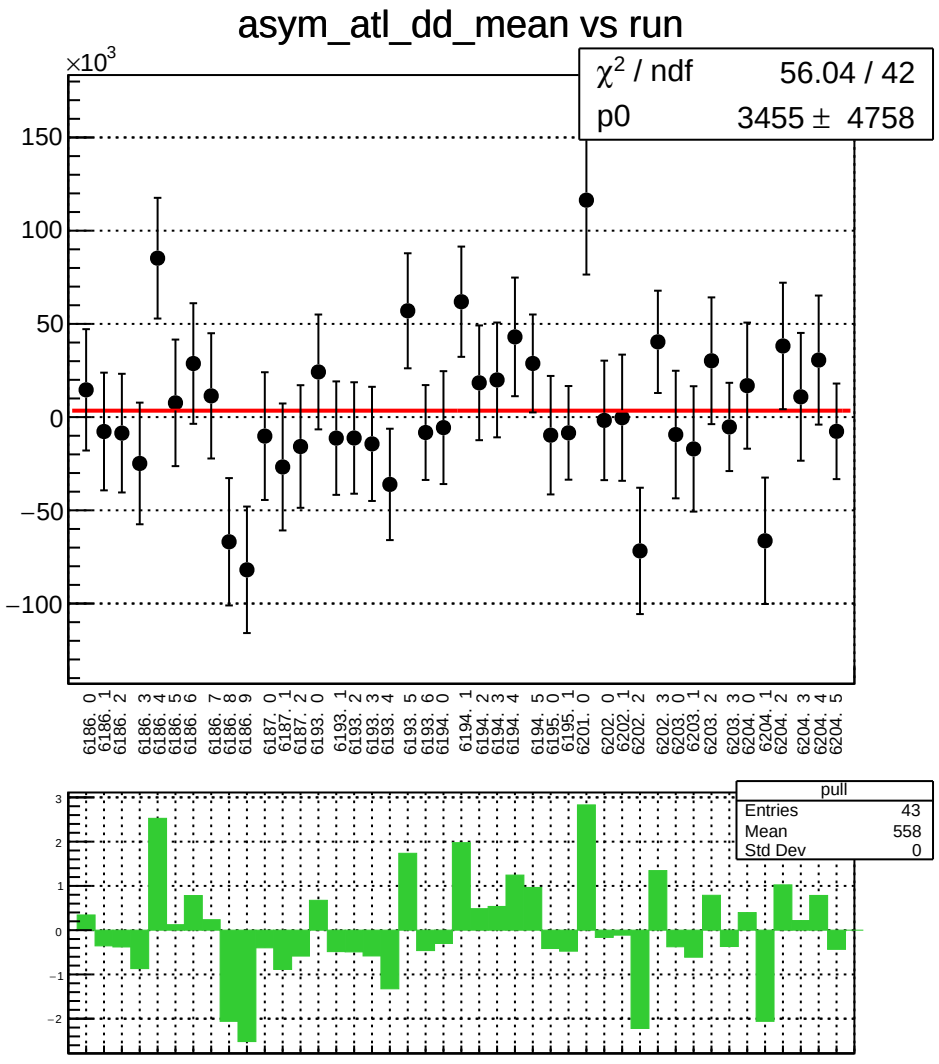

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 3464 / 42
p0 2737 ± 2.984
3100
3000
2900
2800
2700
2600
2500
2400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

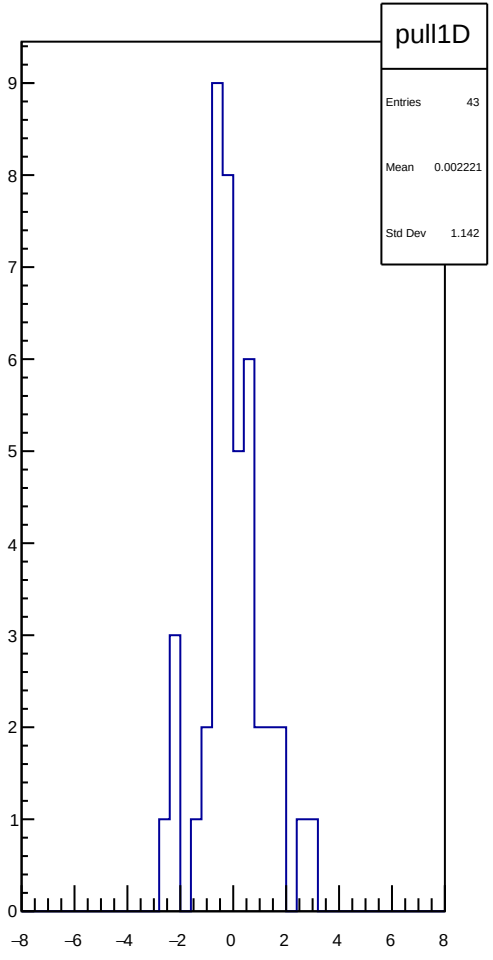

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 51.37 / 42
p0 −367.8 ± 2350
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 3.379
Std Dev 6.645
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03619
Std Dev 1.092
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

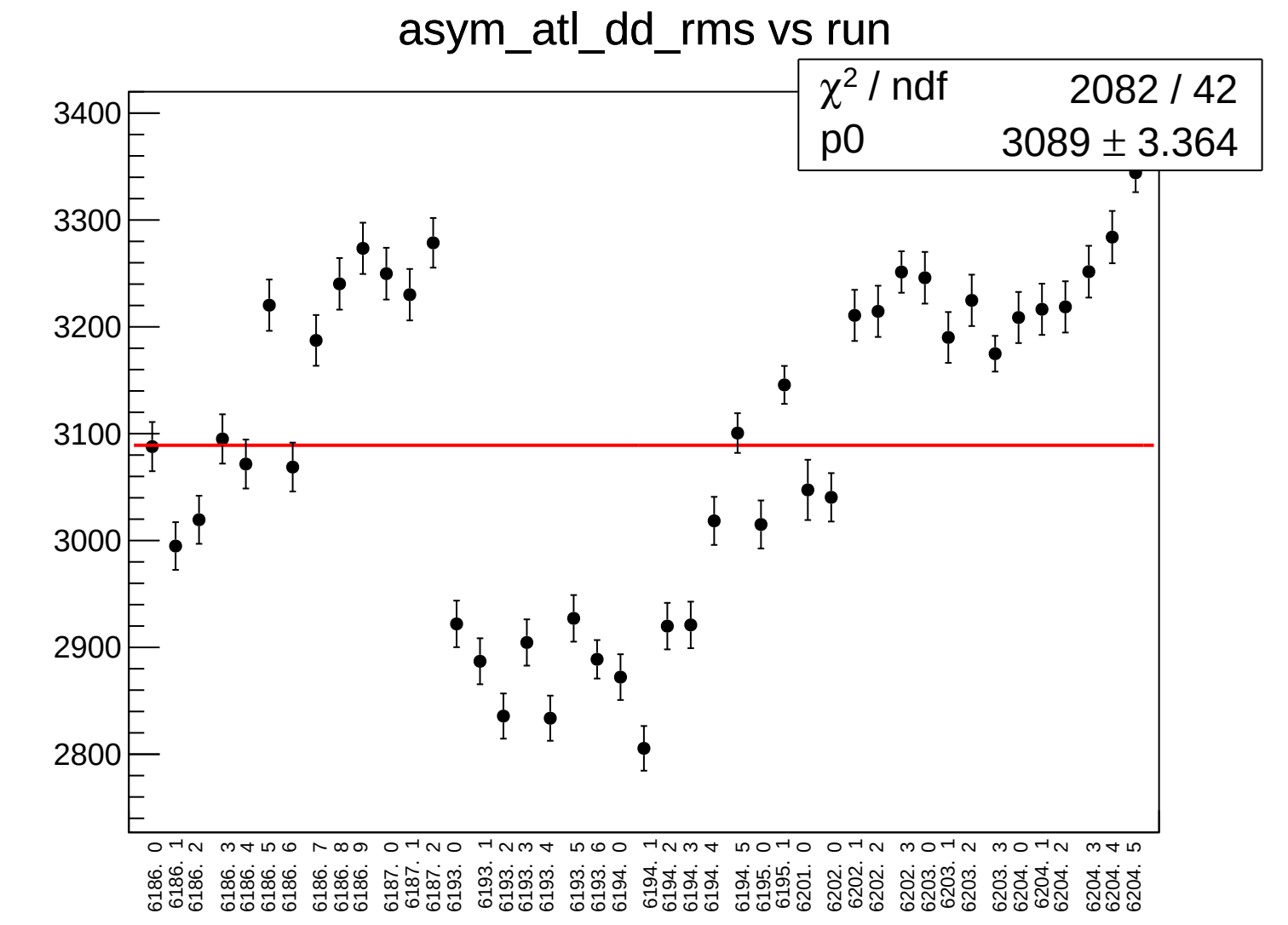

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 292 / 42
p0 1528 ± 1.662
1600
1580
1560
1540
1520
1500
1480
1460
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

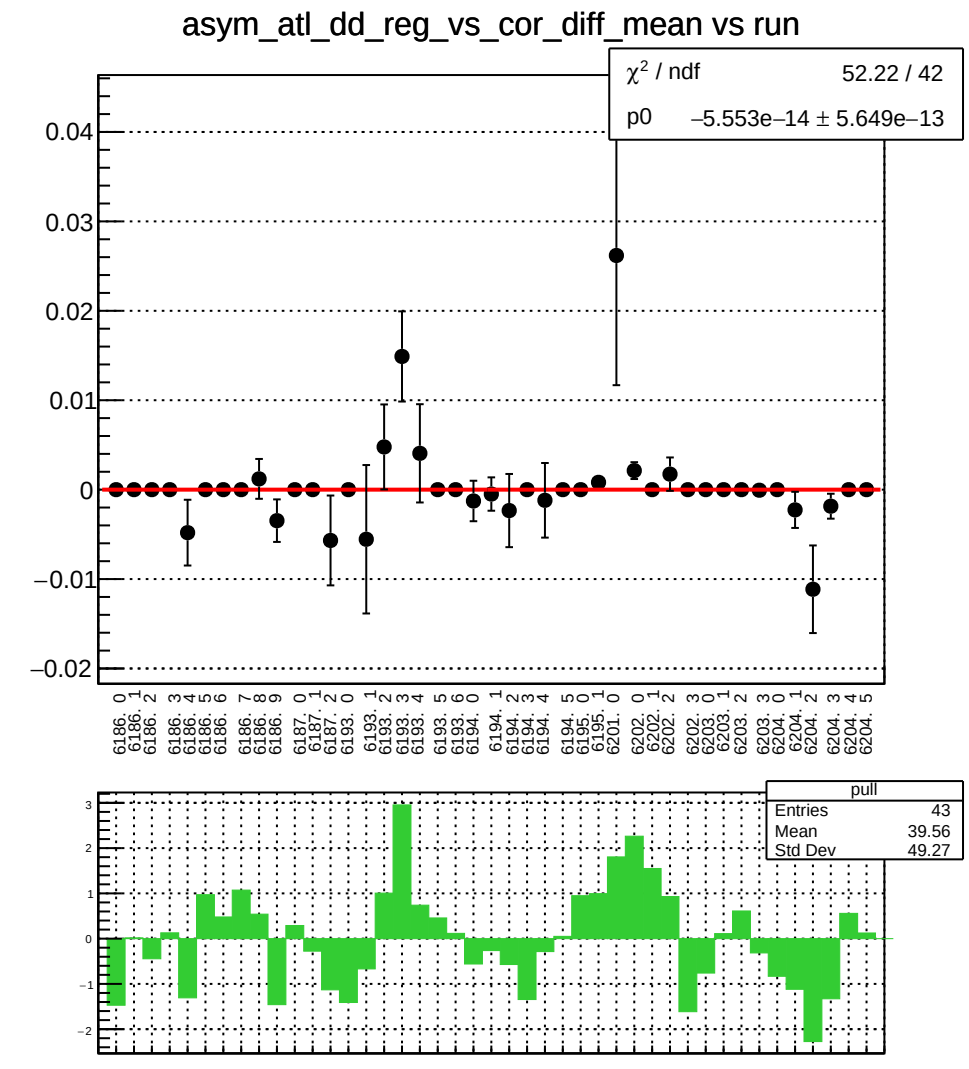

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.03 / 42
p0 −4254 ± 4219
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 81.99
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.01541
Std Dev 1.239
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

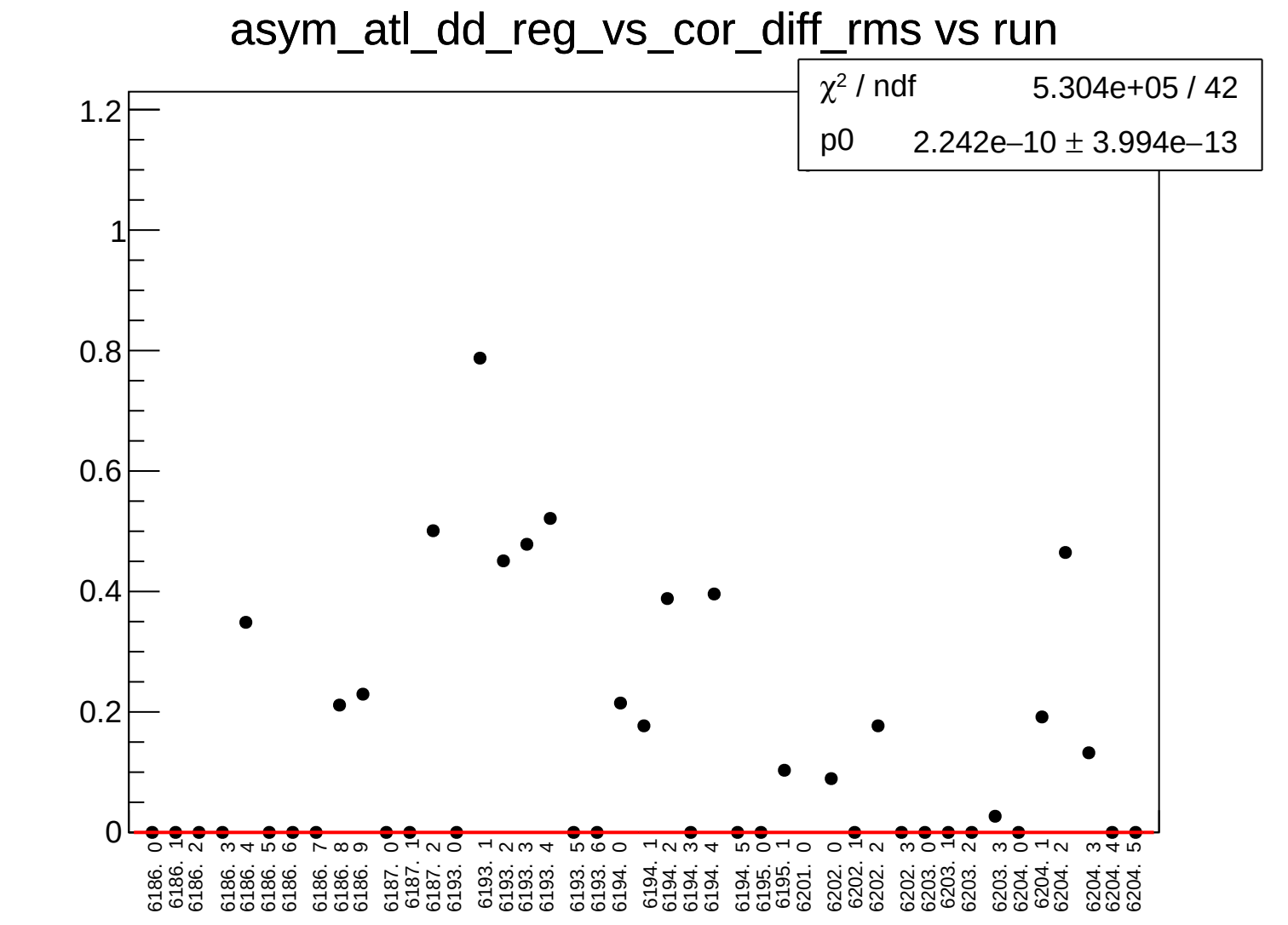

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 3464 / 42
p0 2737 ± 2.984
3100
3000
2900
2800
2700
2600
2500
2400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

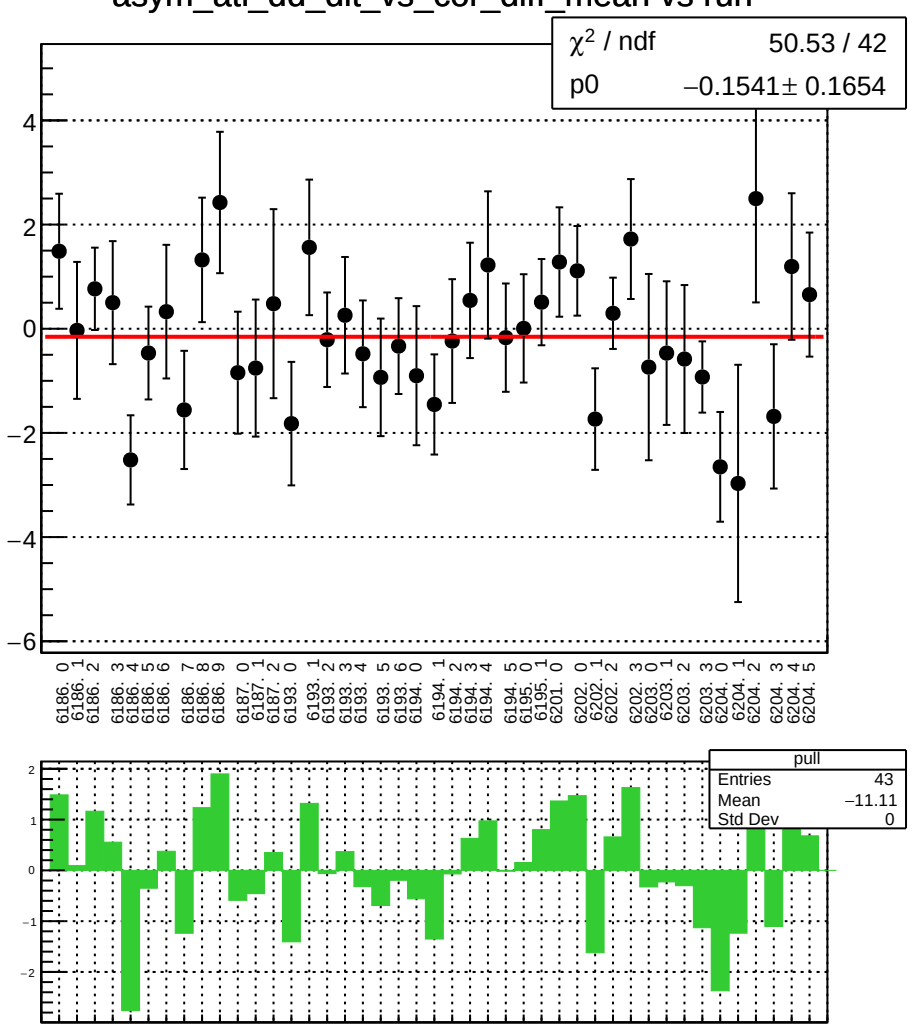

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 56.04 / 42
p0 3455 ± 4758
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 558
Std Dev 0
3
2
1
0
−1
−2

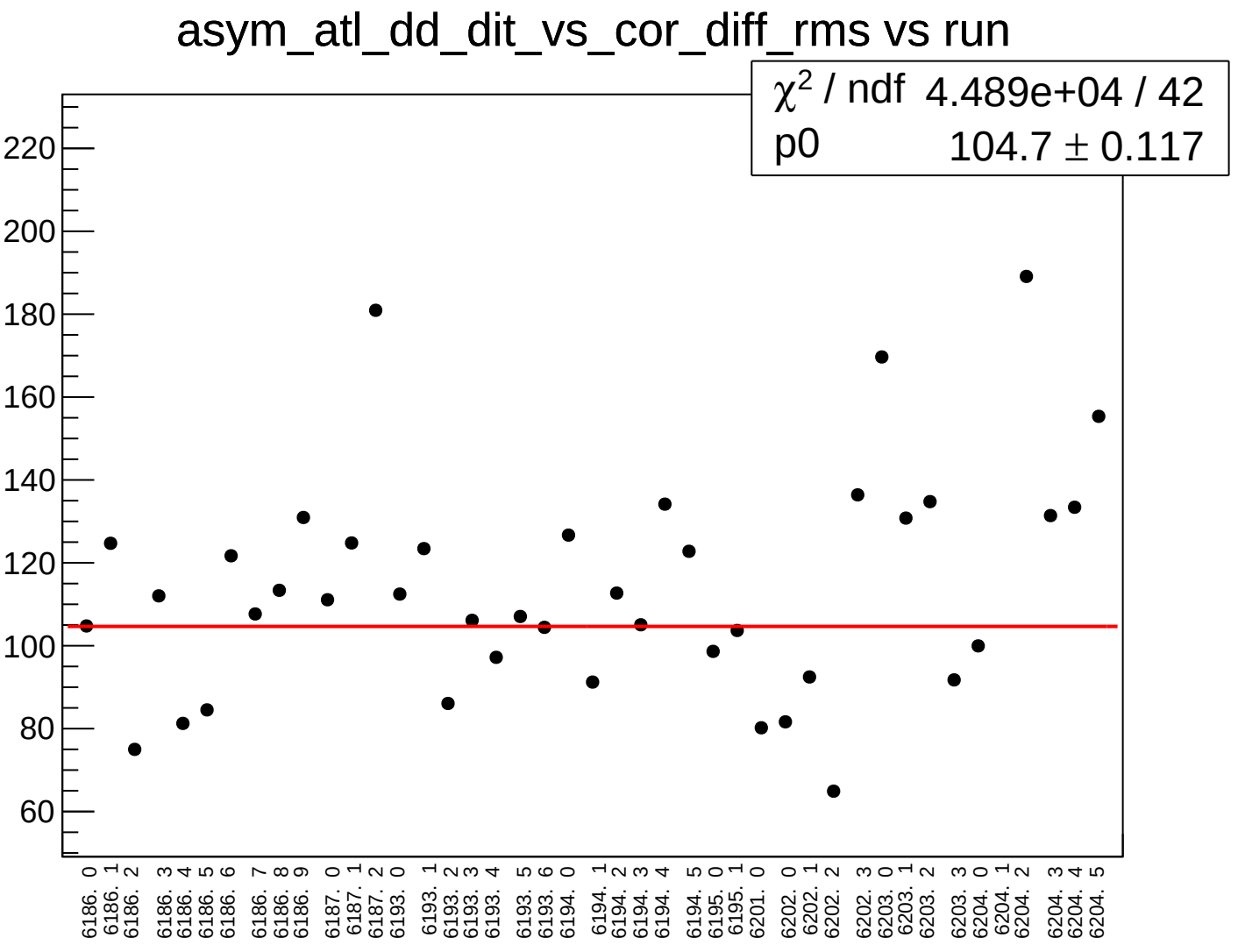

pull1D
Entries 43
Mean 0.002221
Std Dev 1.142
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

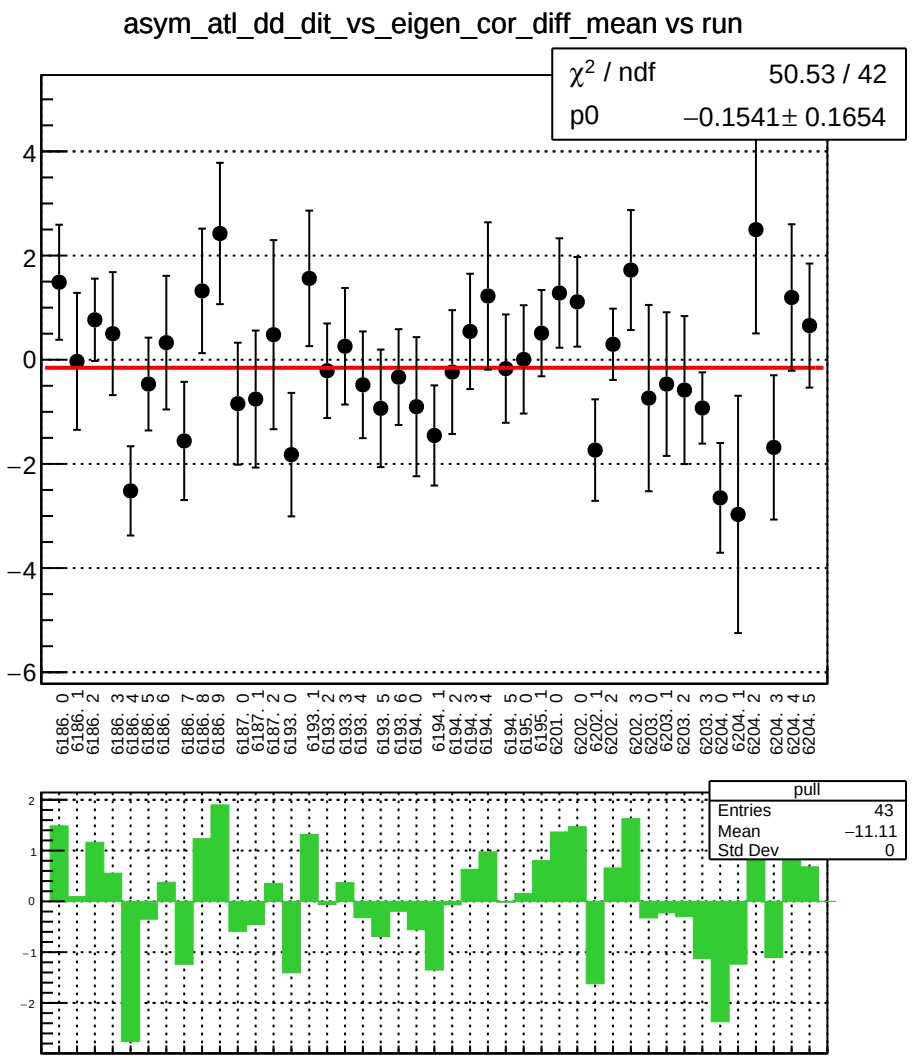

asym_atl_dd_rms vs run
χ² / ndf 2082 / 42
p0 3089 ± 3.364
3400
3300
3200
3100
3000
2900
2800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

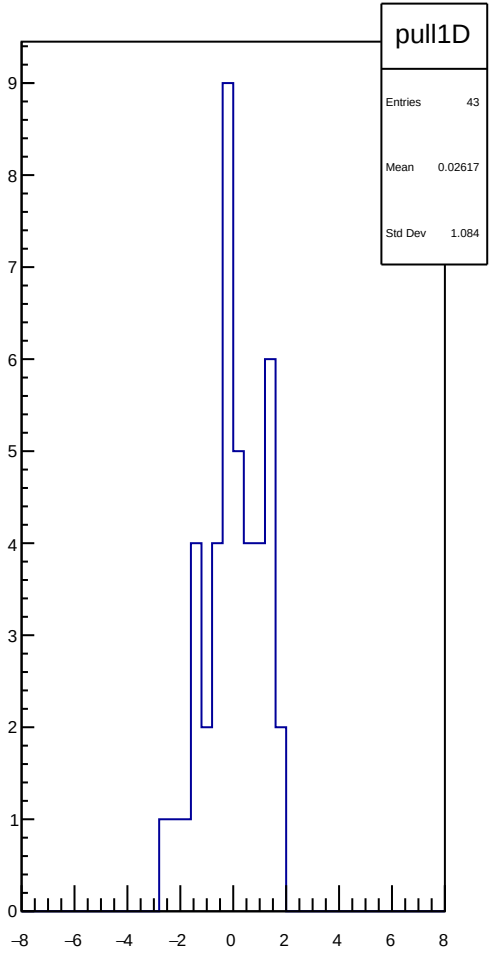

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 52.22 / 42
p0 −5.553e−14 ± 5.649e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 39.56
Std Dev 49.27
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01672
Std Dev 1.102
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

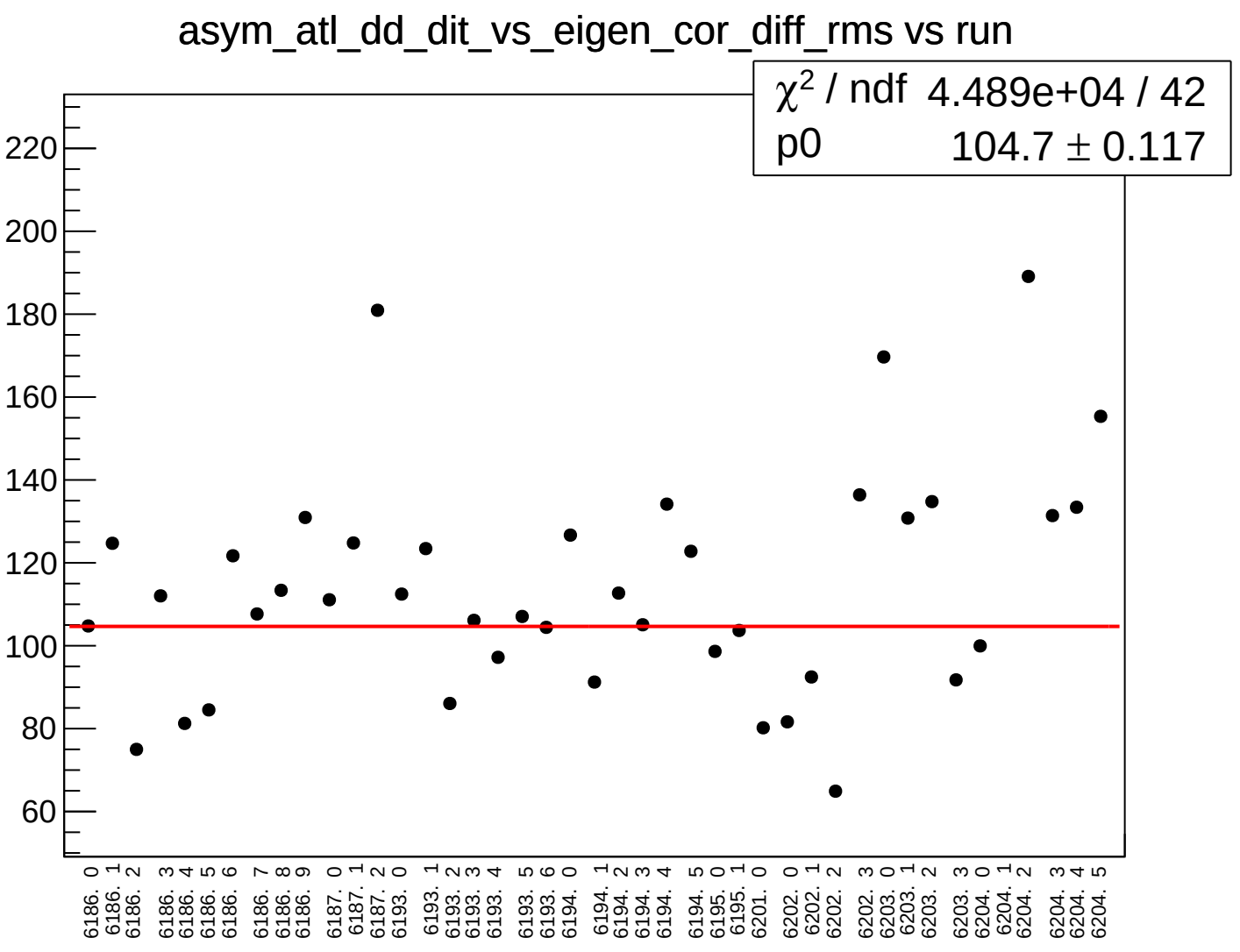

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.304e+05 / 42
p0 2.242e−10 ± 3.994e−13
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

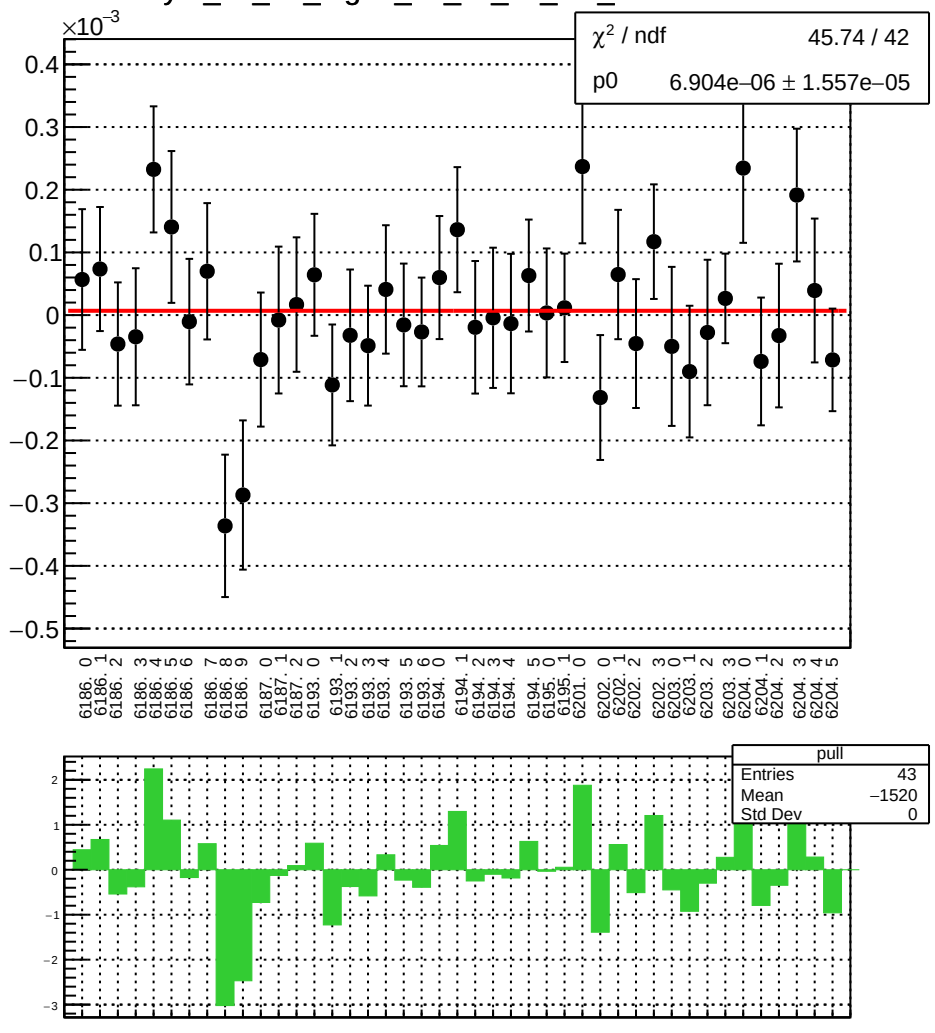

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 50.53 / 42
p0 −0.1541± 0.1654
4
2
0
−2
−4
−6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −11.11
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02617
Std Dev 1.084
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

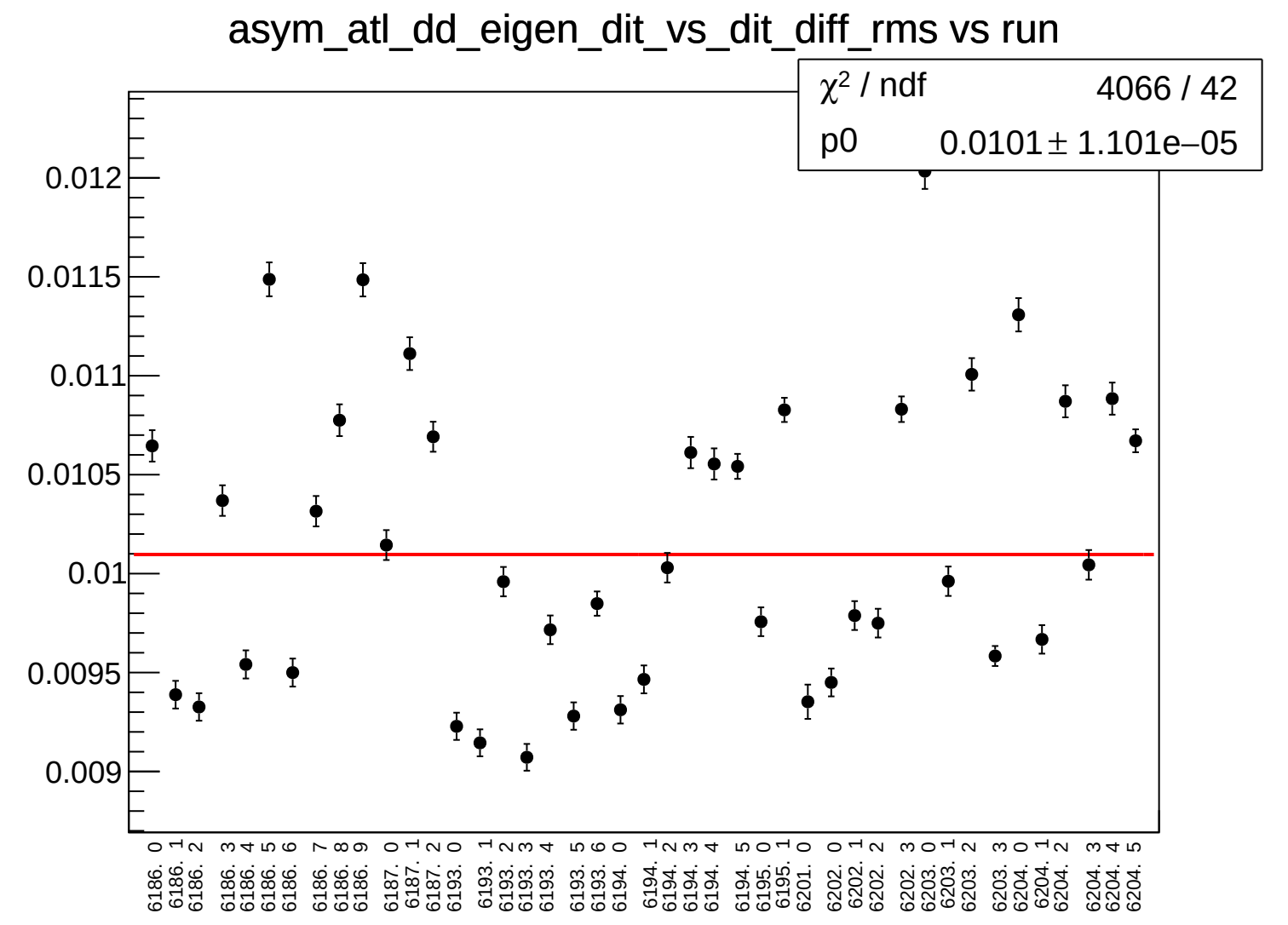

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.489e+04 / 42
p0 104.7 ± 0.117
220
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

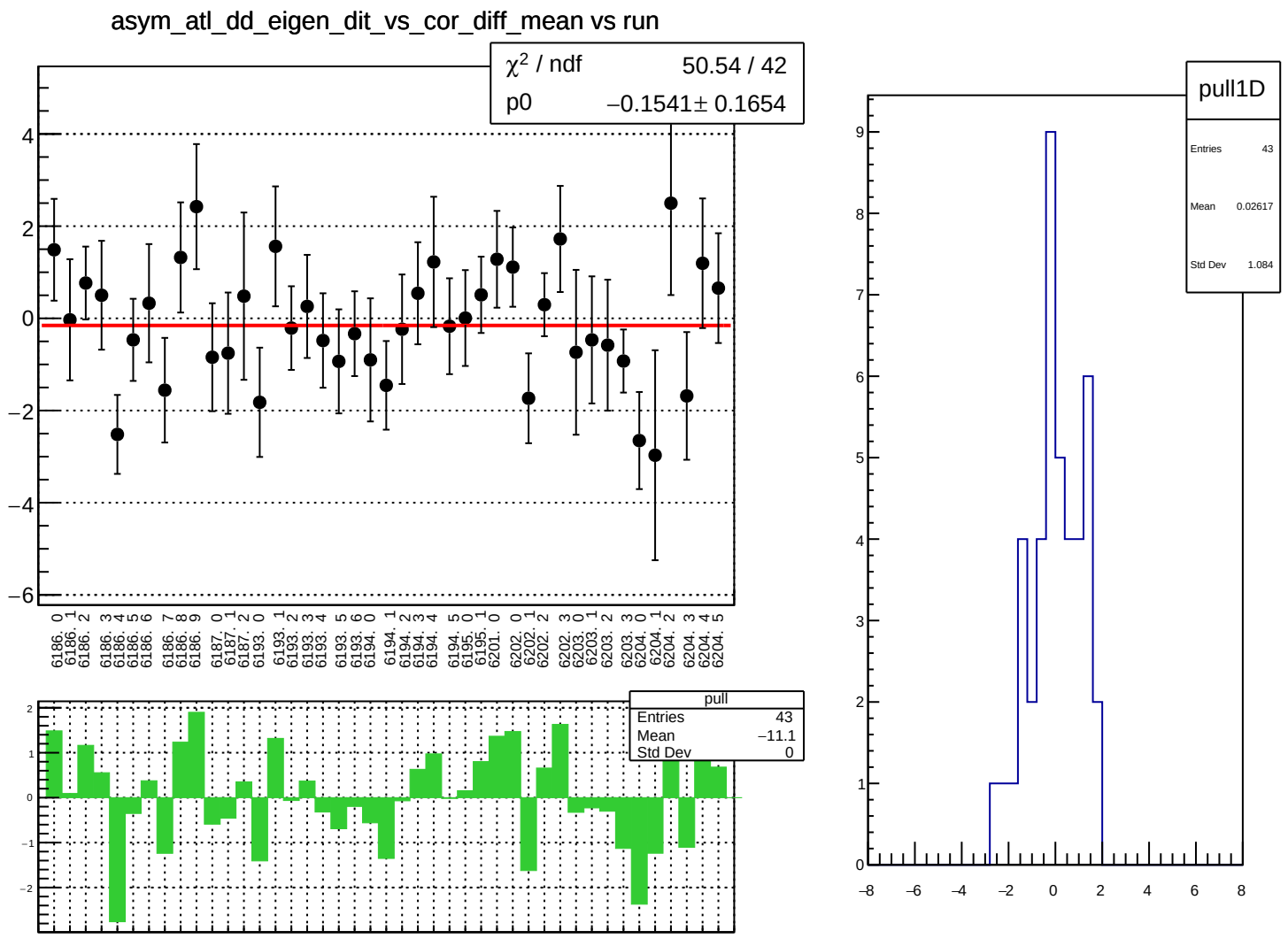

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.53 / 42
p0 −0.1541± 0.1654
pull
Entries 43
Mean −11.11
Std Dev 0

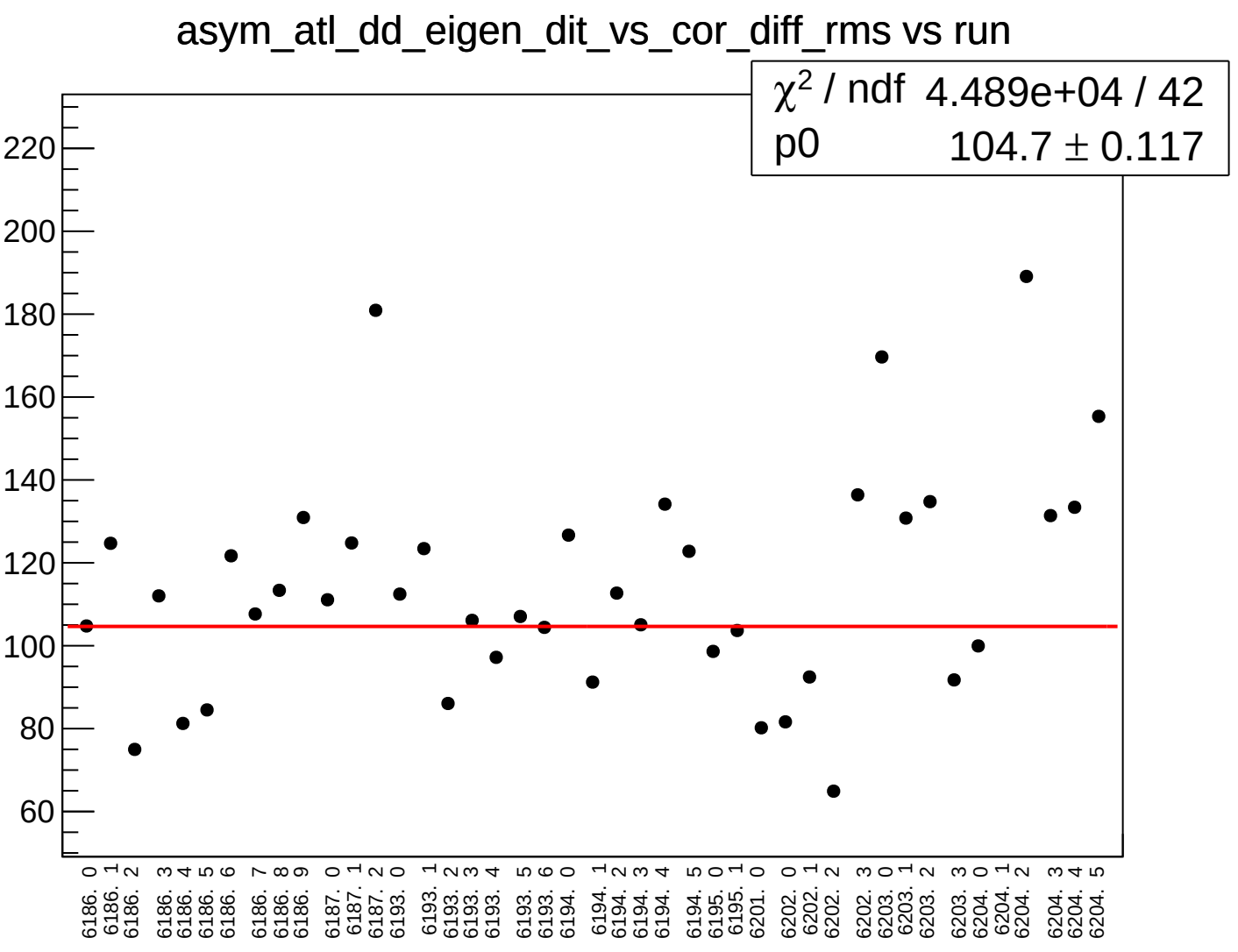

pull1D
Entries 43
Mean 0.02617
Std Dev 1.084

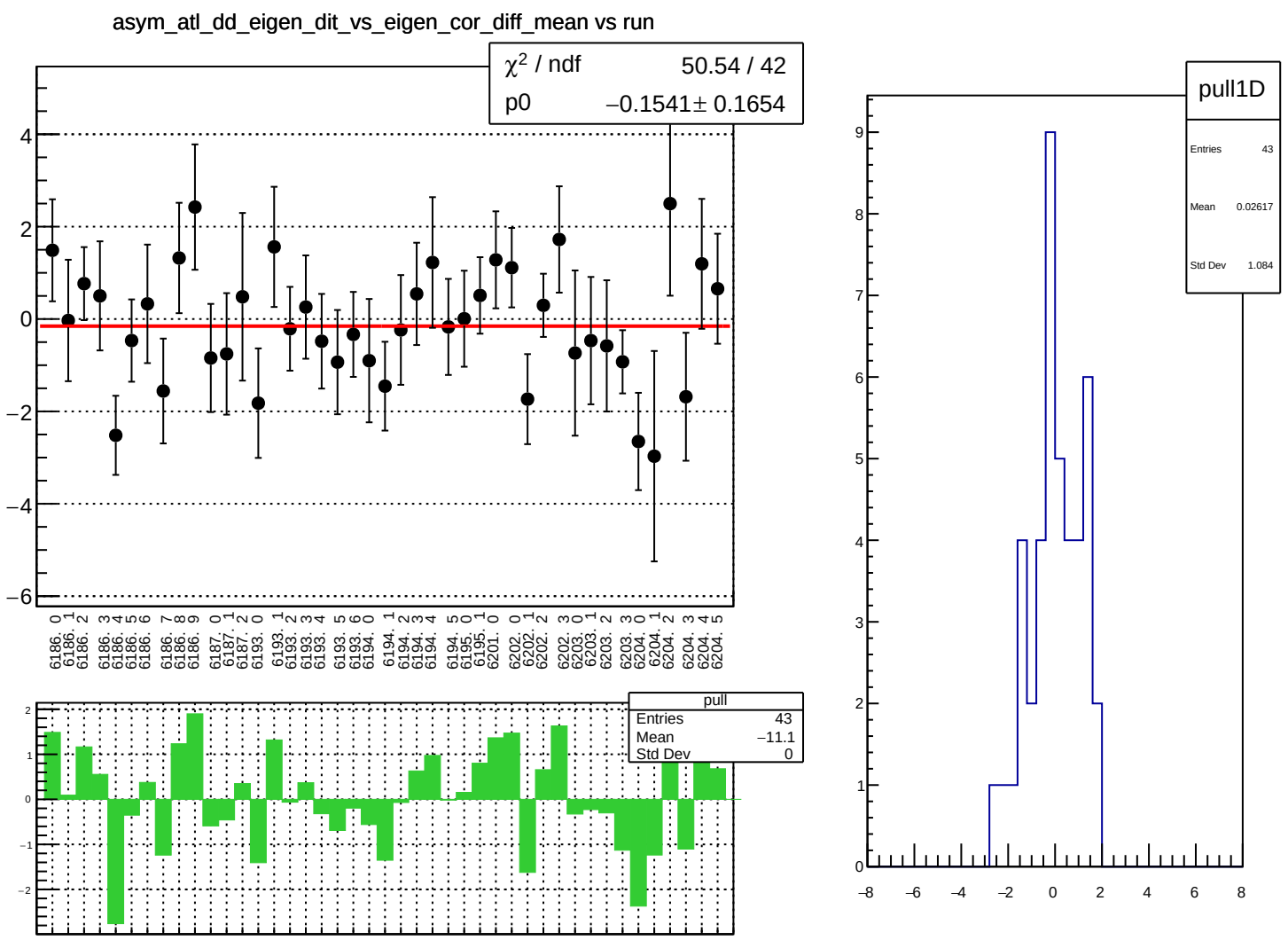

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.489e+04 / 42
p0 104.7 ± 0.117
220
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

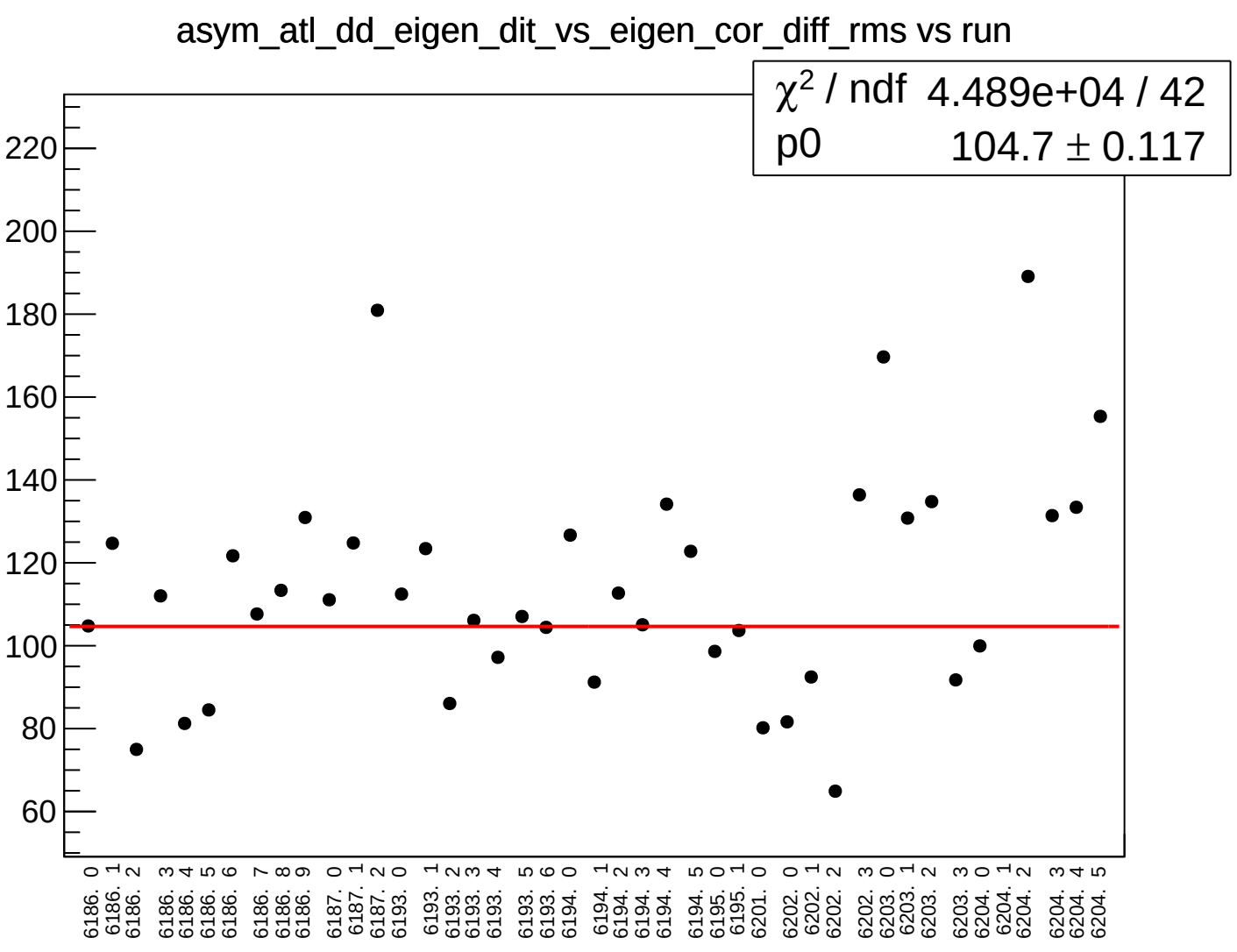

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.74 / 42
p0 6.904e−06 ± 1.557e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1520
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.0007233
Std Dev 1.031
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

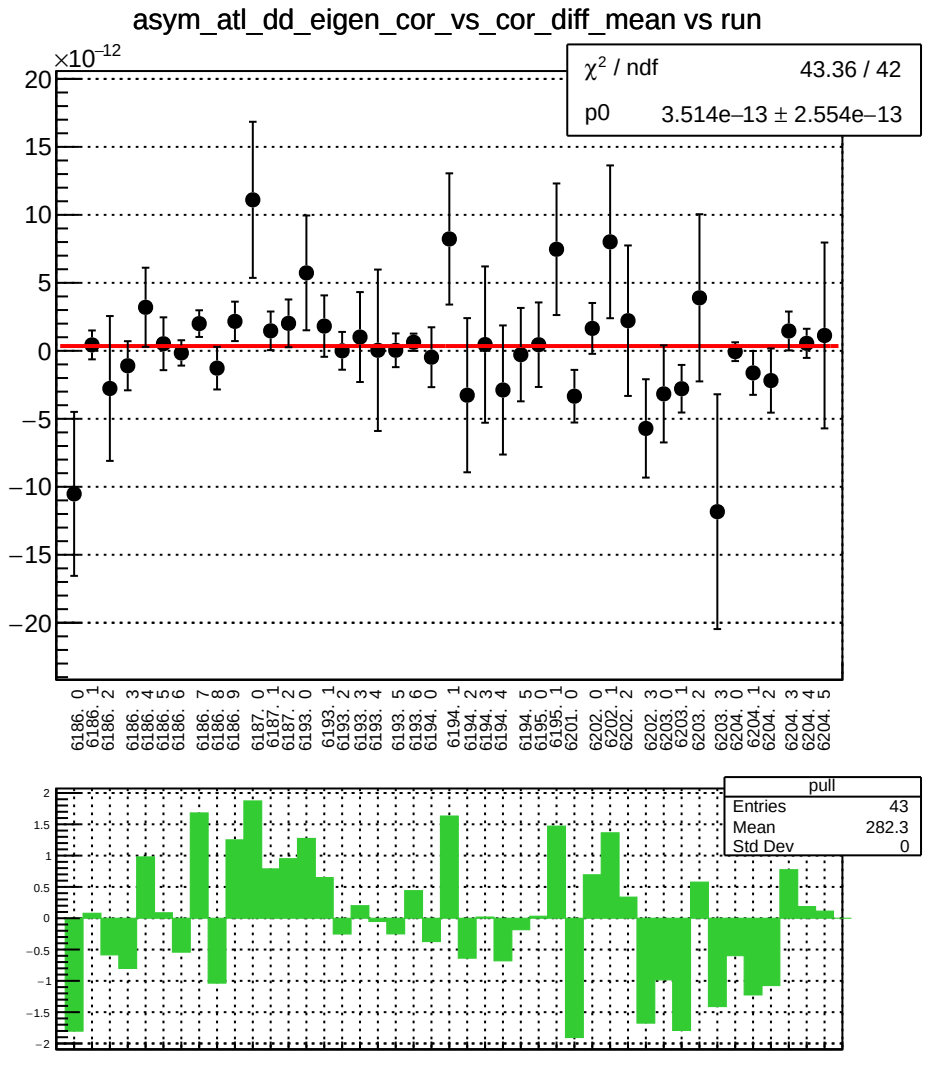

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4066 / 42
p0 0.0101 ± 1.101e−05
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

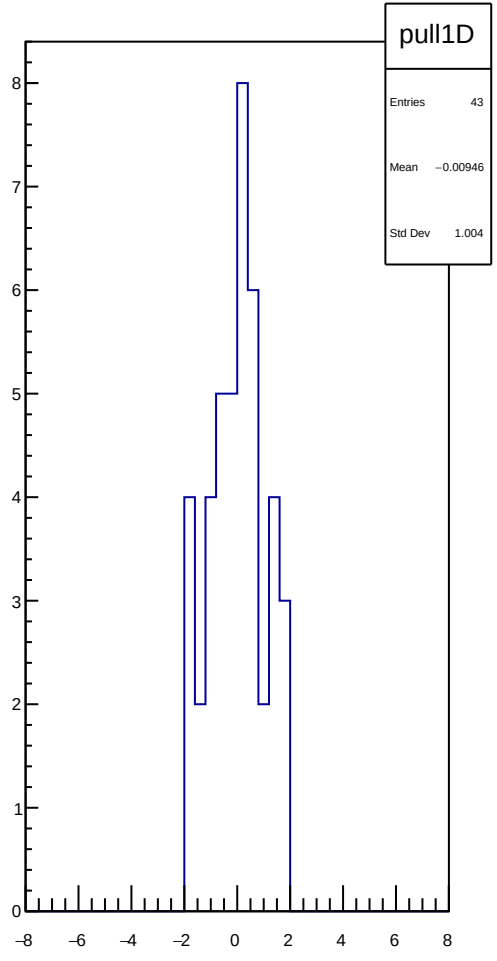

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.54 / 42
p0 −0.1541± 0.1654
4
2
0
−2
−4
−6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −11.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02617
Std Dev 1.084
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

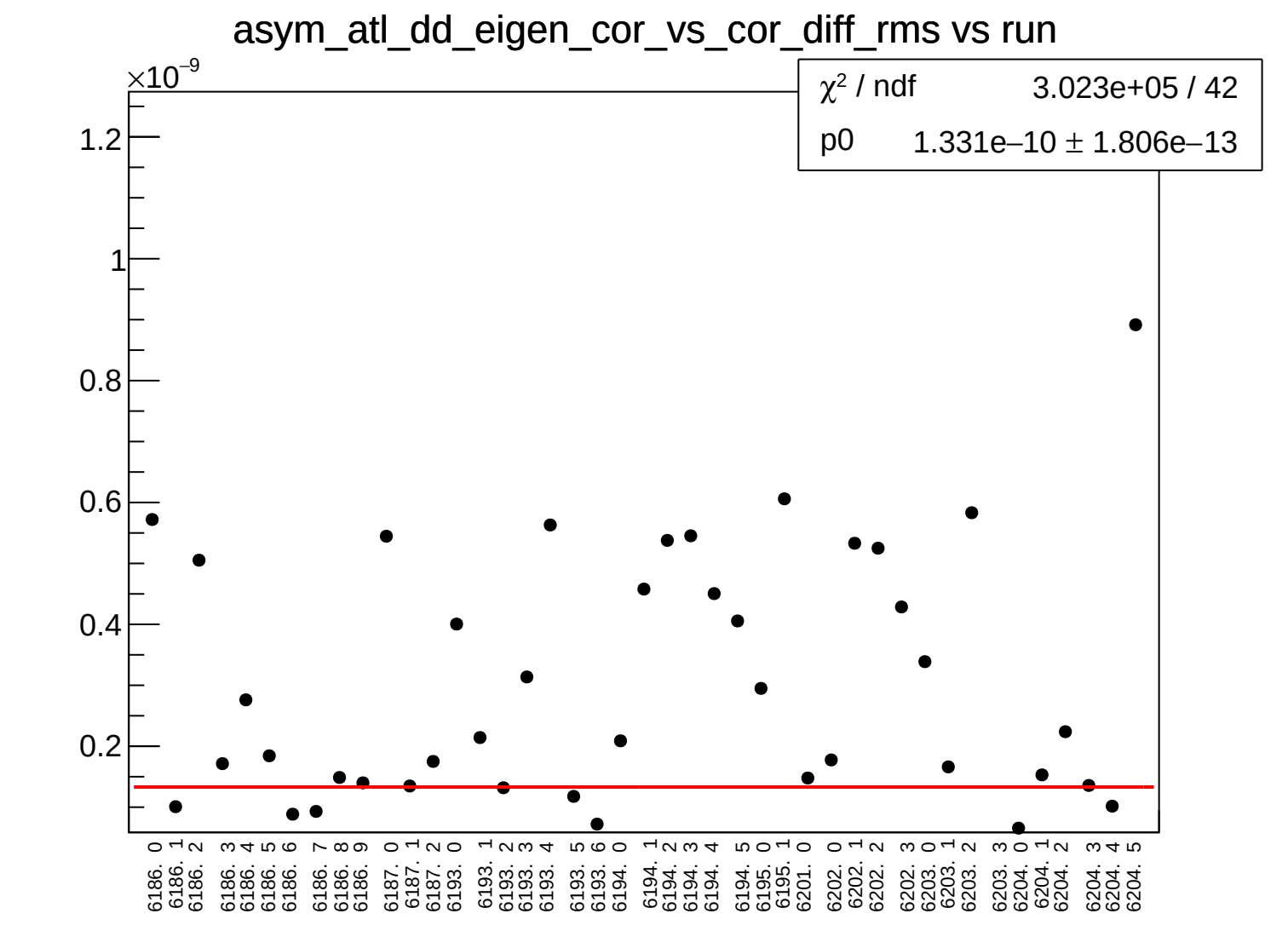

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.489e+04 / 42
p0 104.7 ± 0.117
220
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

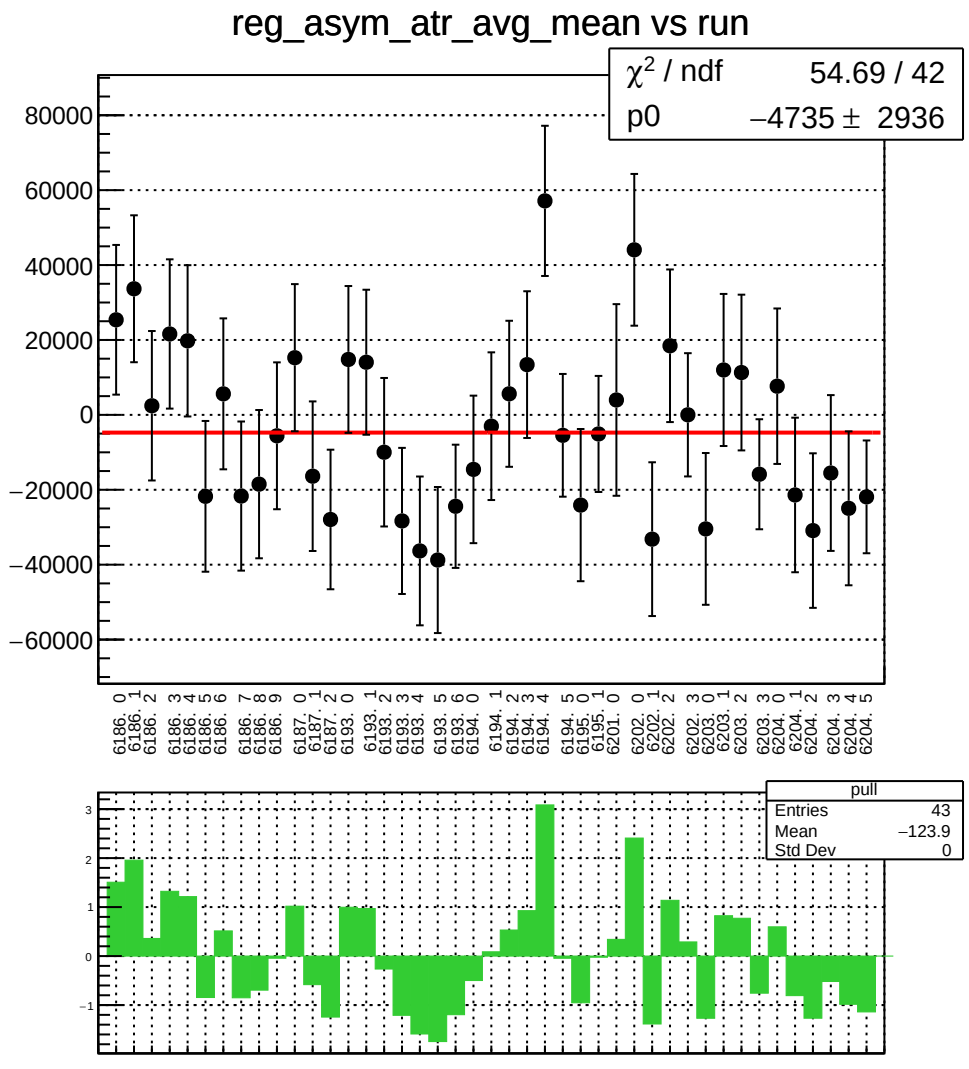

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.54 / 42
p0 −0.1541± 0.1654
4
2
0
−2
−4
−6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −11.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02617
Std Dev 1.084
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

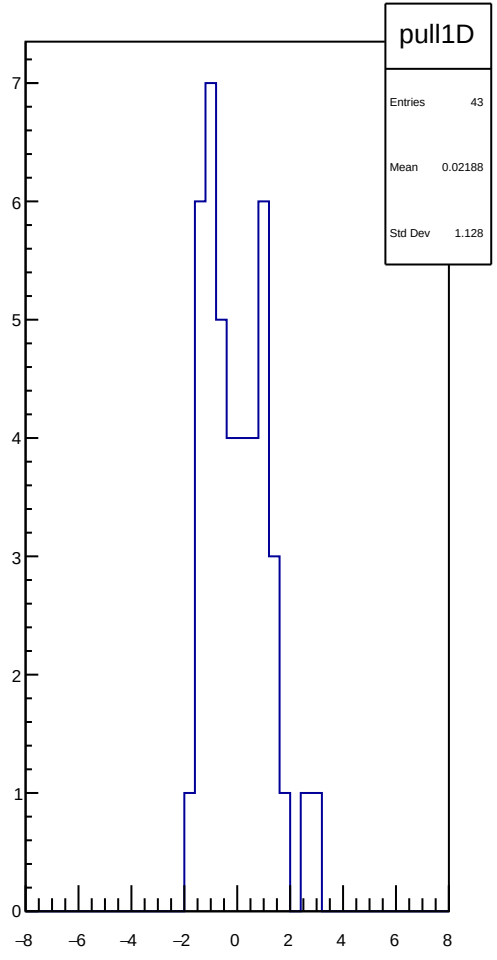

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.489e+04 / 42
p0 104.7 ± 0.117
220
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

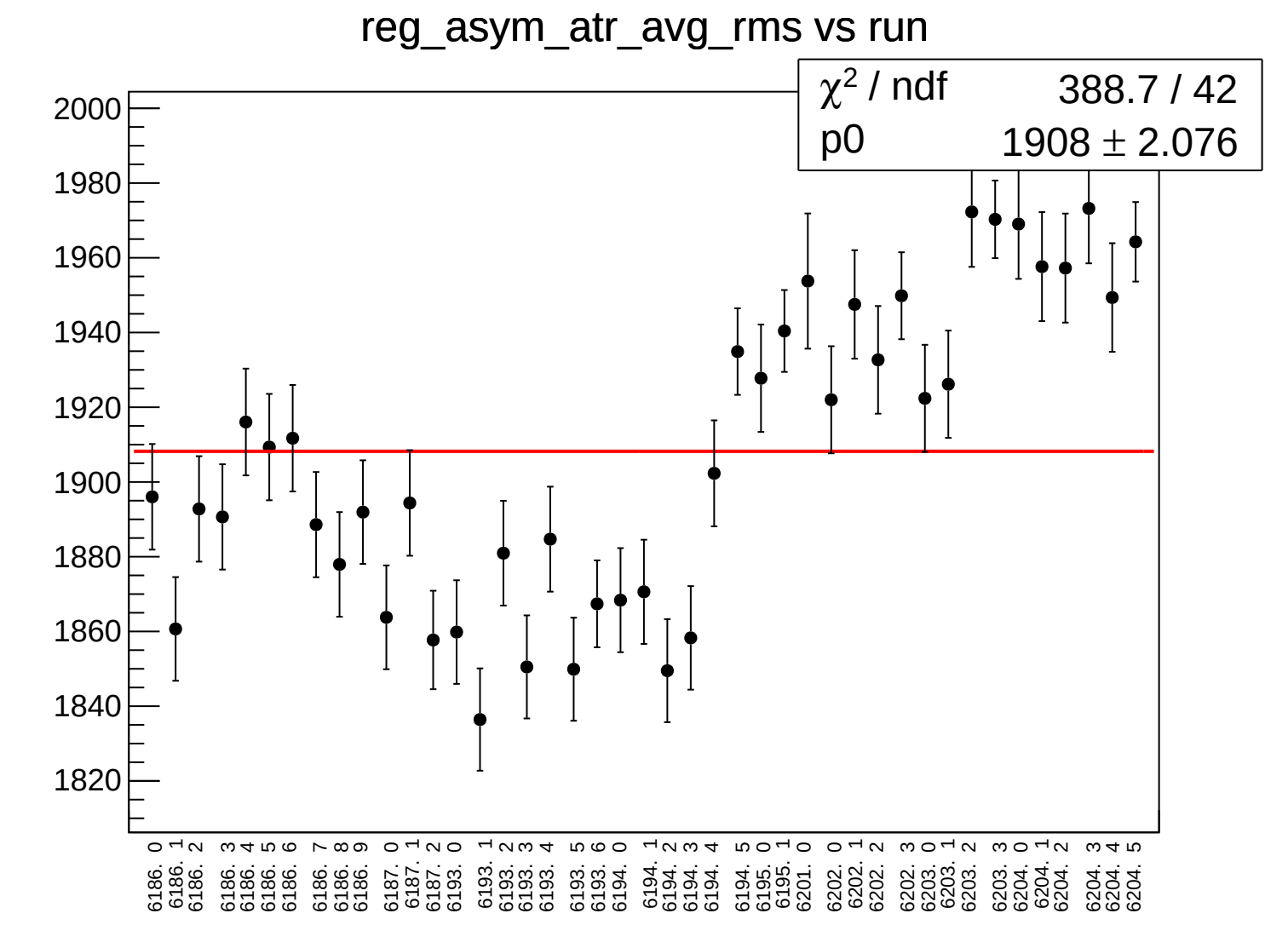

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 43.36 / 42
p0 3.514e−13 ± 2.554e−13
pull
Entries 43
Mean 282.3
Std Dev 0

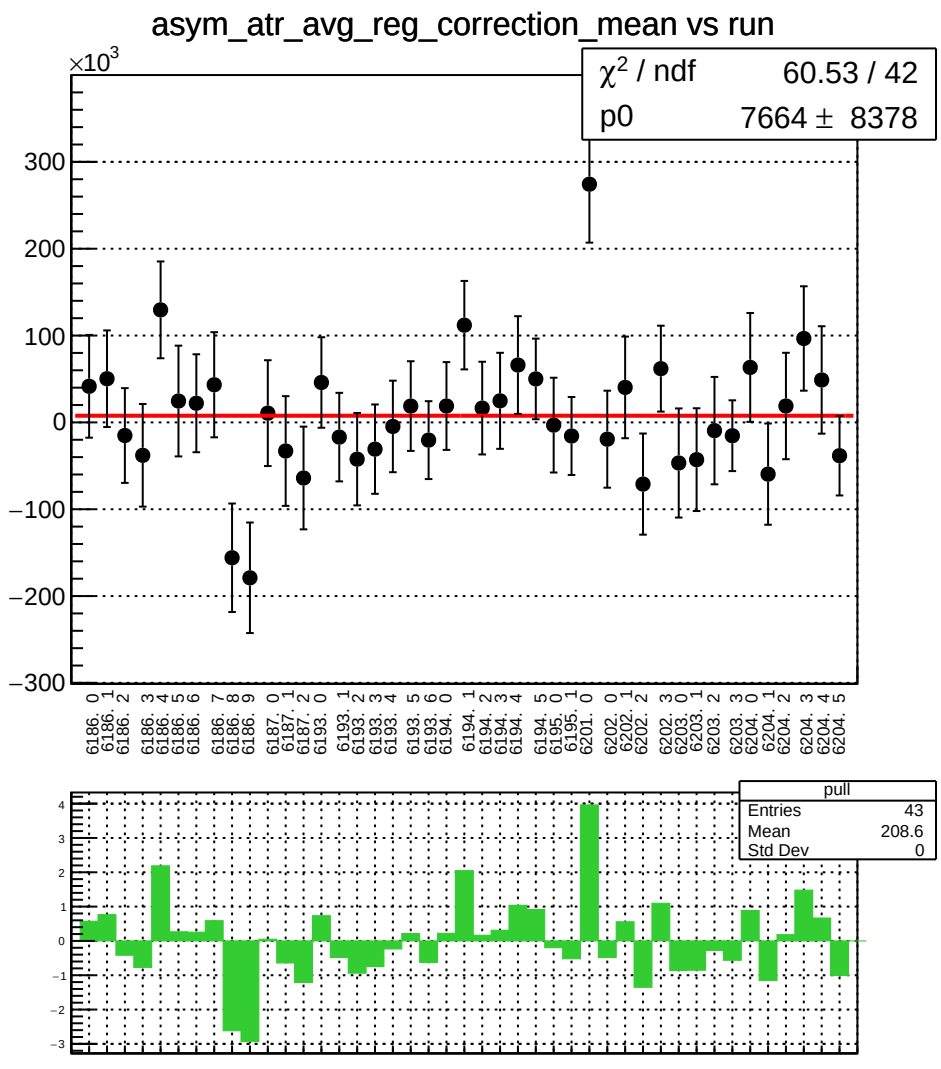

pull1D
Entries 43
Mean −0.00946
Std Dev 1.004

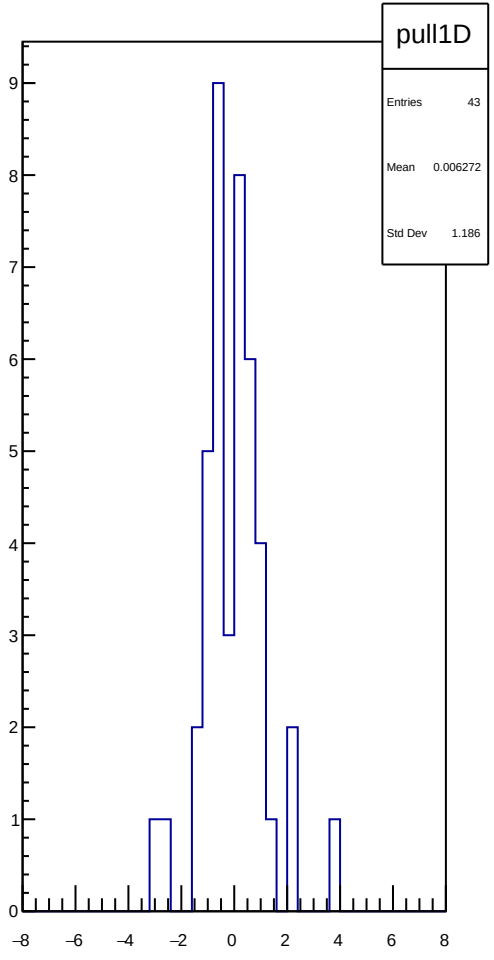

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.023e+05 / 42
p0 1.331e−10 ± 1.806e−13
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

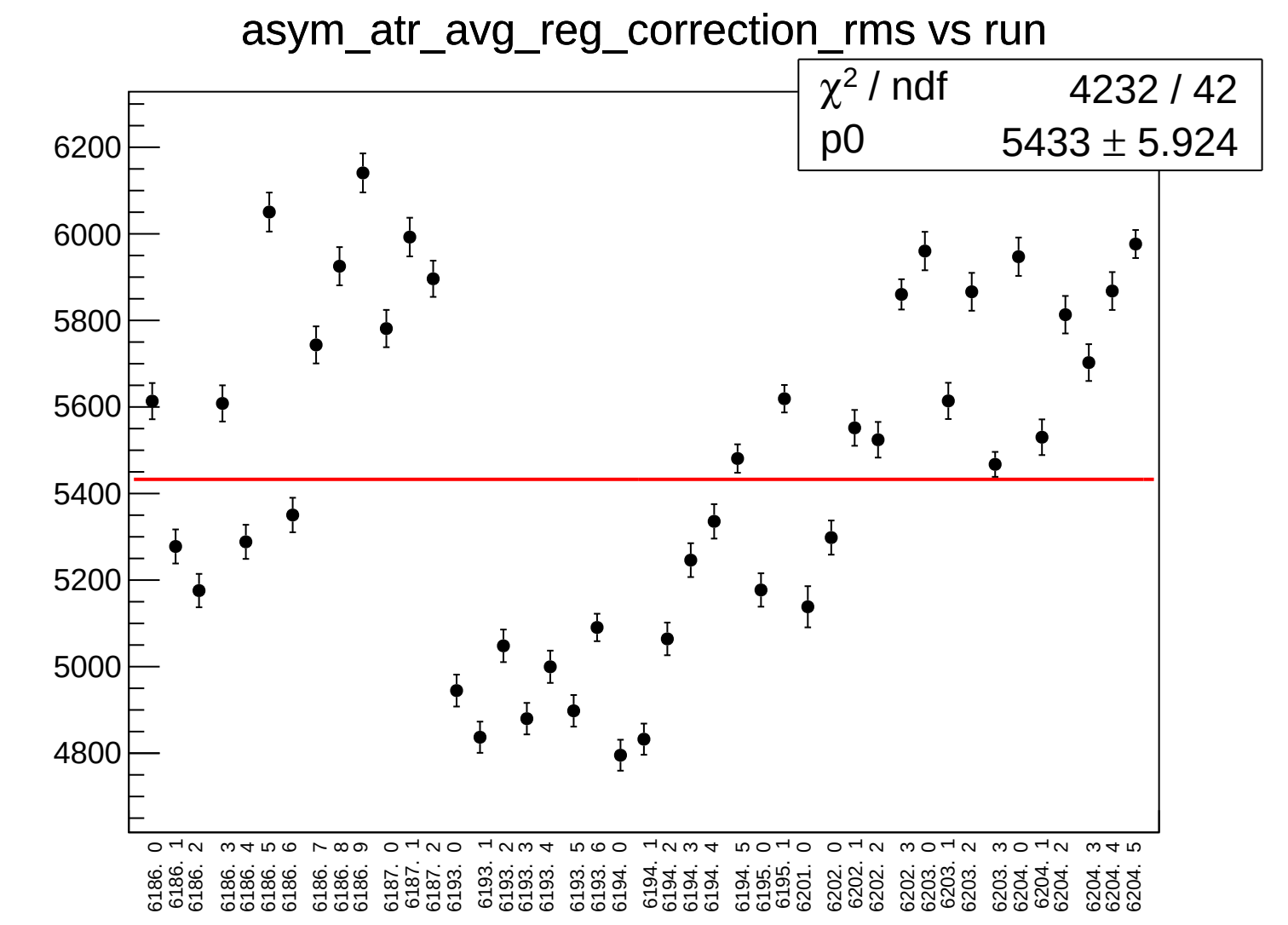

reg_asym_atr_avg_mean vs run
χ² / ndf 54.69 / 42
p0 −4735 ± 2936
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −123.9
Std Dev 0
3
2
1
0
−1

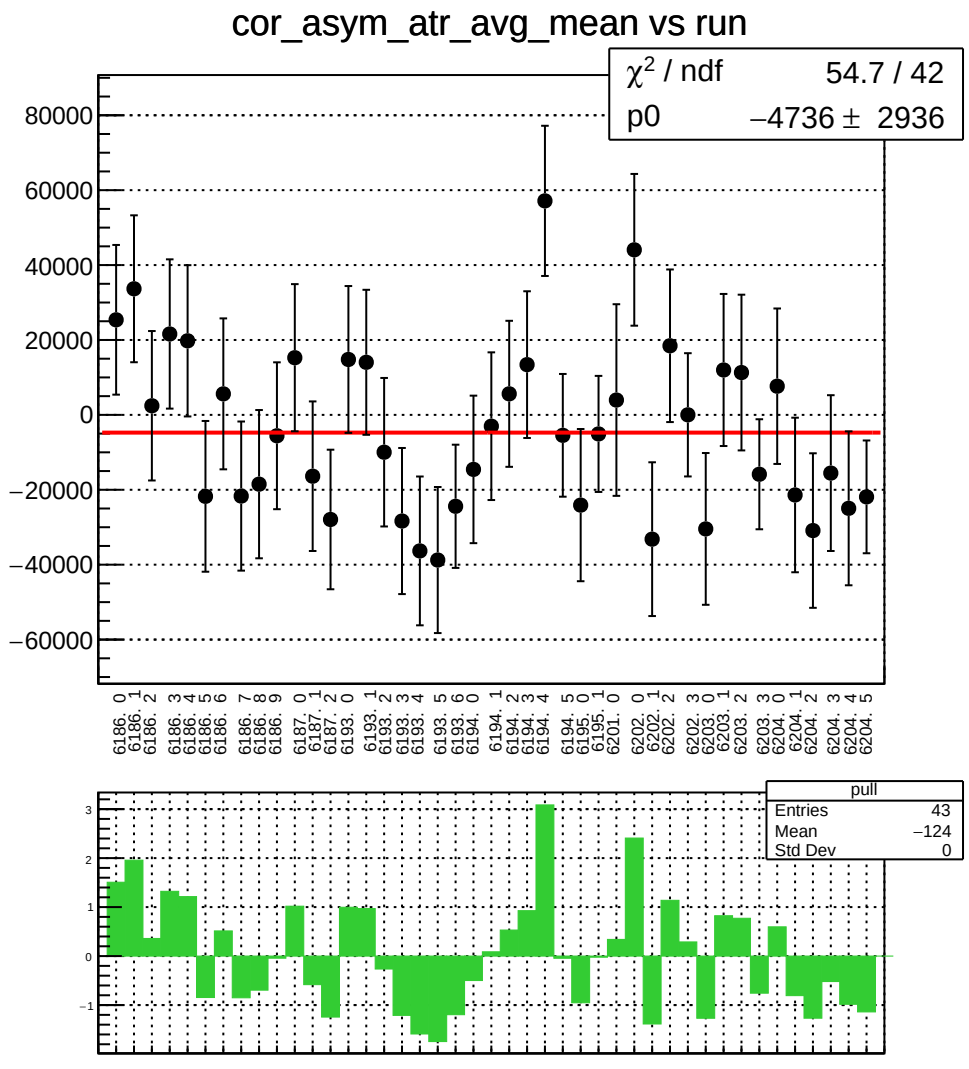

pull1D
Entries 43
Mean 0.02188
Std Dev 1.128
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

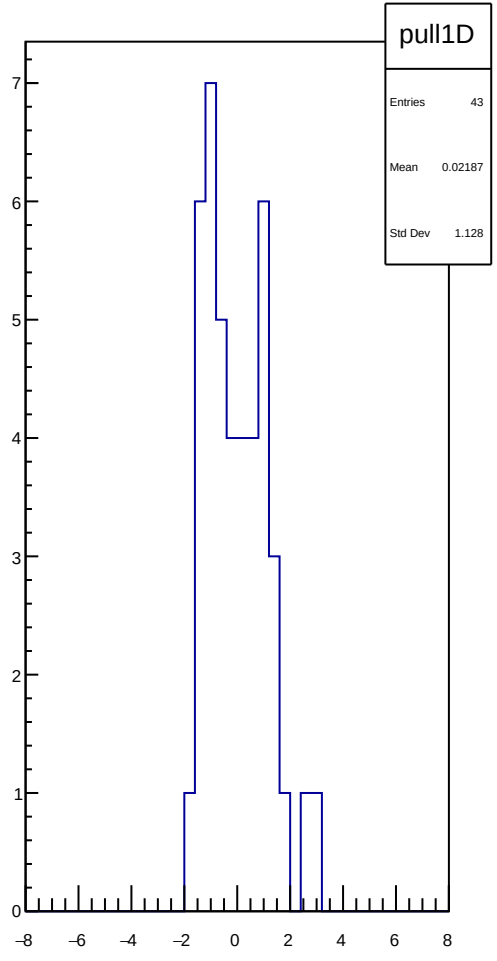

reg_asym_atr_avg_rms vs run
χ² / ndf 388.7 / 42
p0 1908 ± 2.076
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

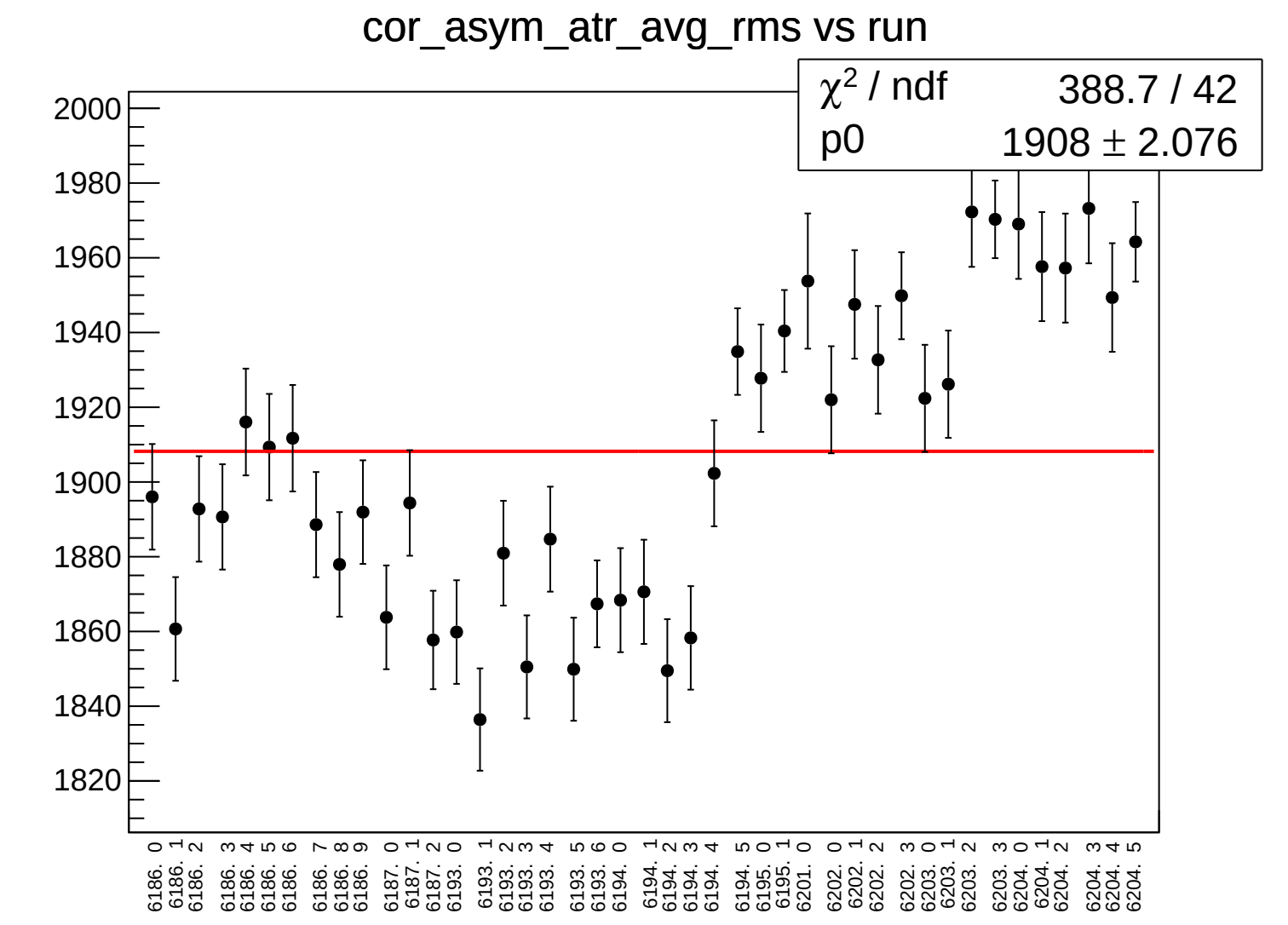

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 60.53 / 42
p0 7664 ± 8378
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 208.6
Std Dev 0
4
3
2
1
0
−1
−2
−3

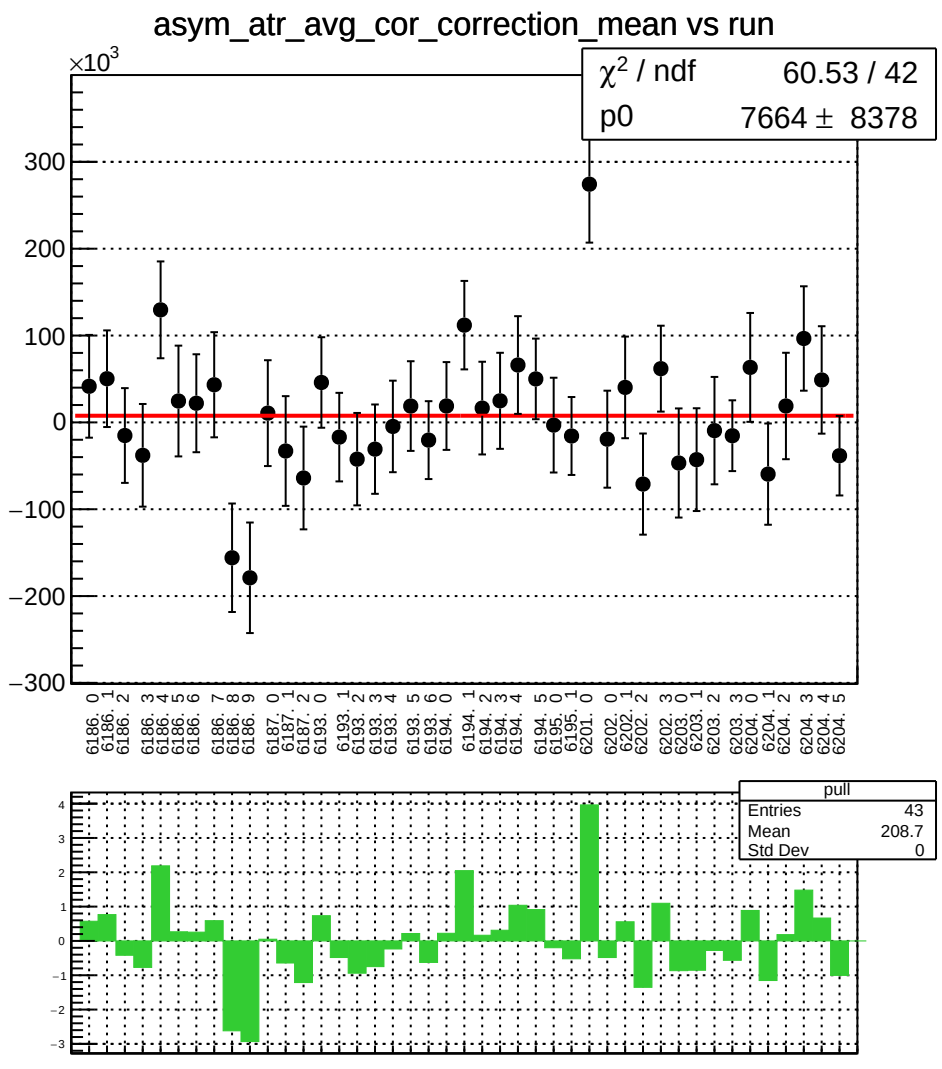

pull1D
Entries 43
Mean 0.006272
Std Dev 1.186
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

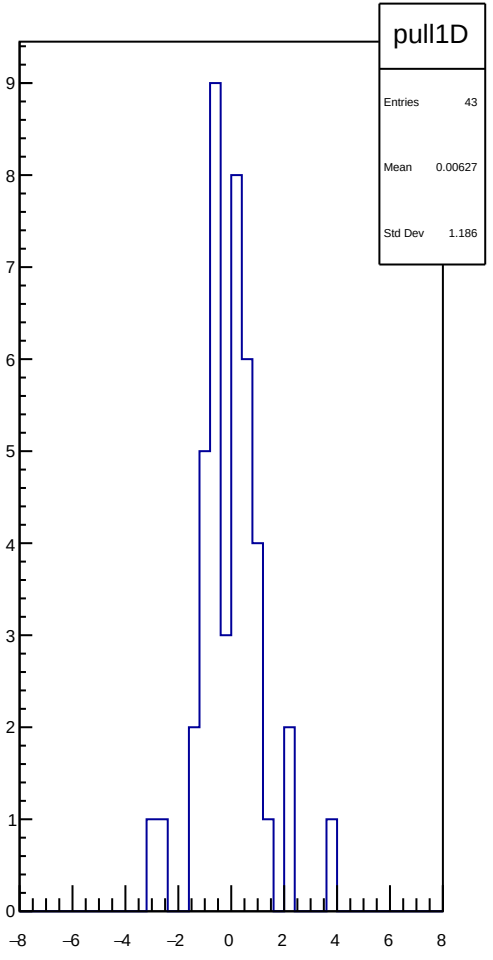

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 4232 / 42
p0 5433 ± 5.924
6200
6000
5800
5600
5400
5200
5000
4800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

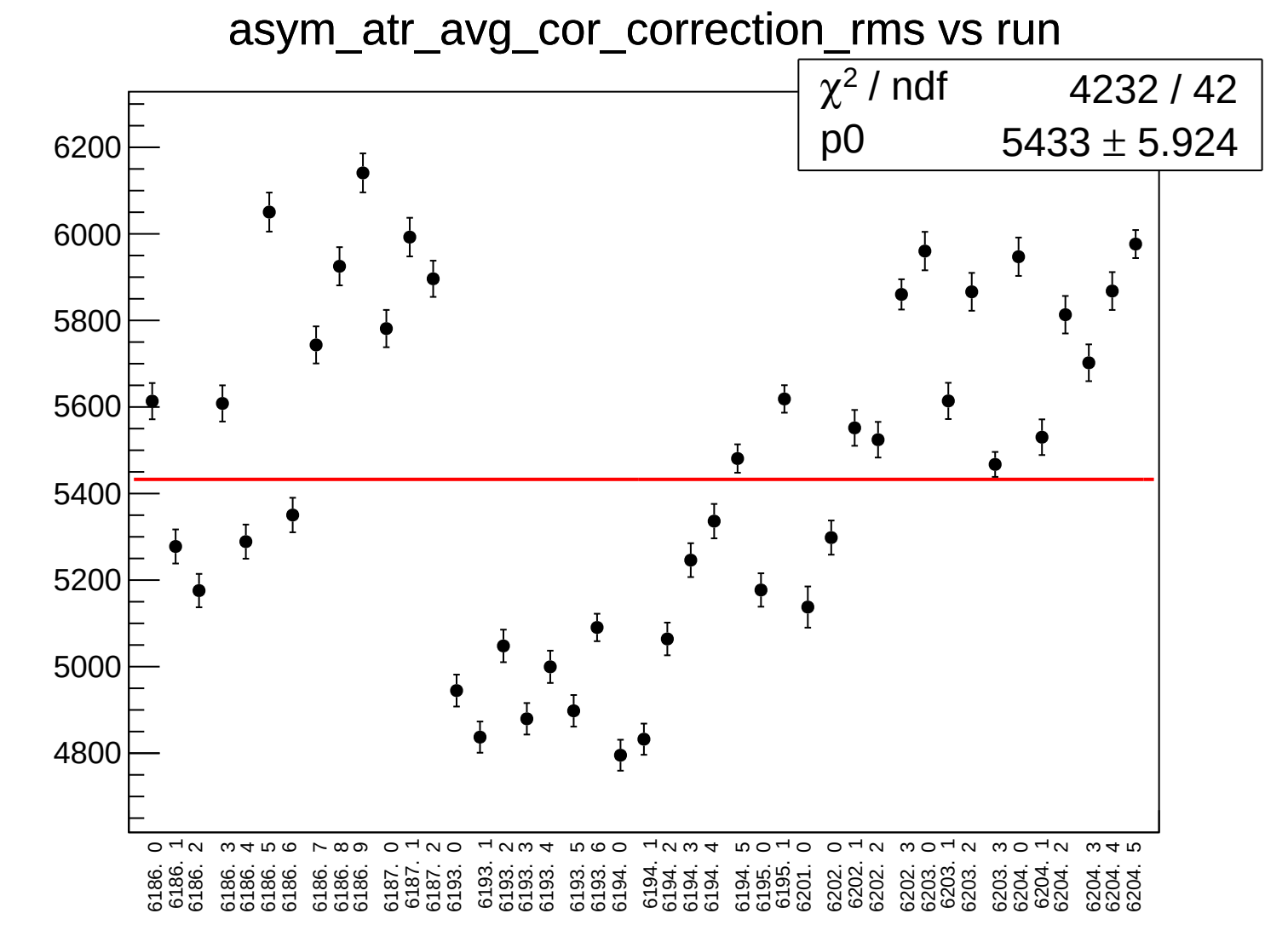

cor_asym_atr_avg_mean vs run
χ² / ndf 54.7 / 42
p0 −4736 ± 2936
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −124
Std Dev 0
3
2
1
0
−1

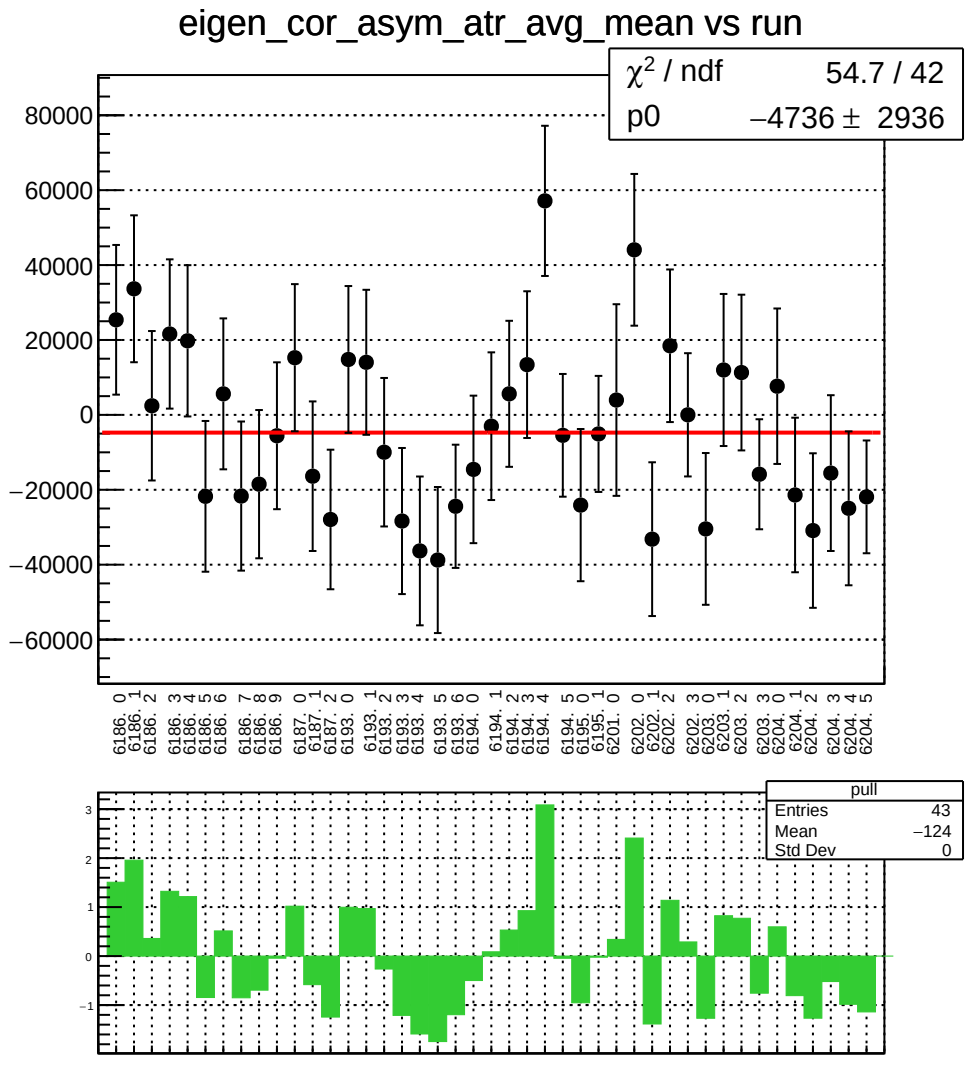

pull1D
Entries 43
Mean 0.02187
Std Dev 1.128
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

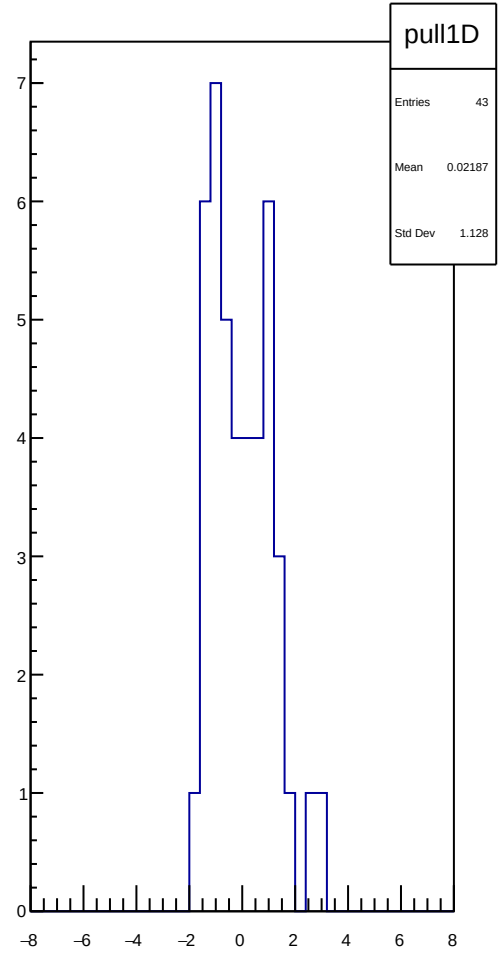

cor_asym_atr_avg_rms vs run
χ² / ndf 388.7 / 42
p0 1908 ± 2.076
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

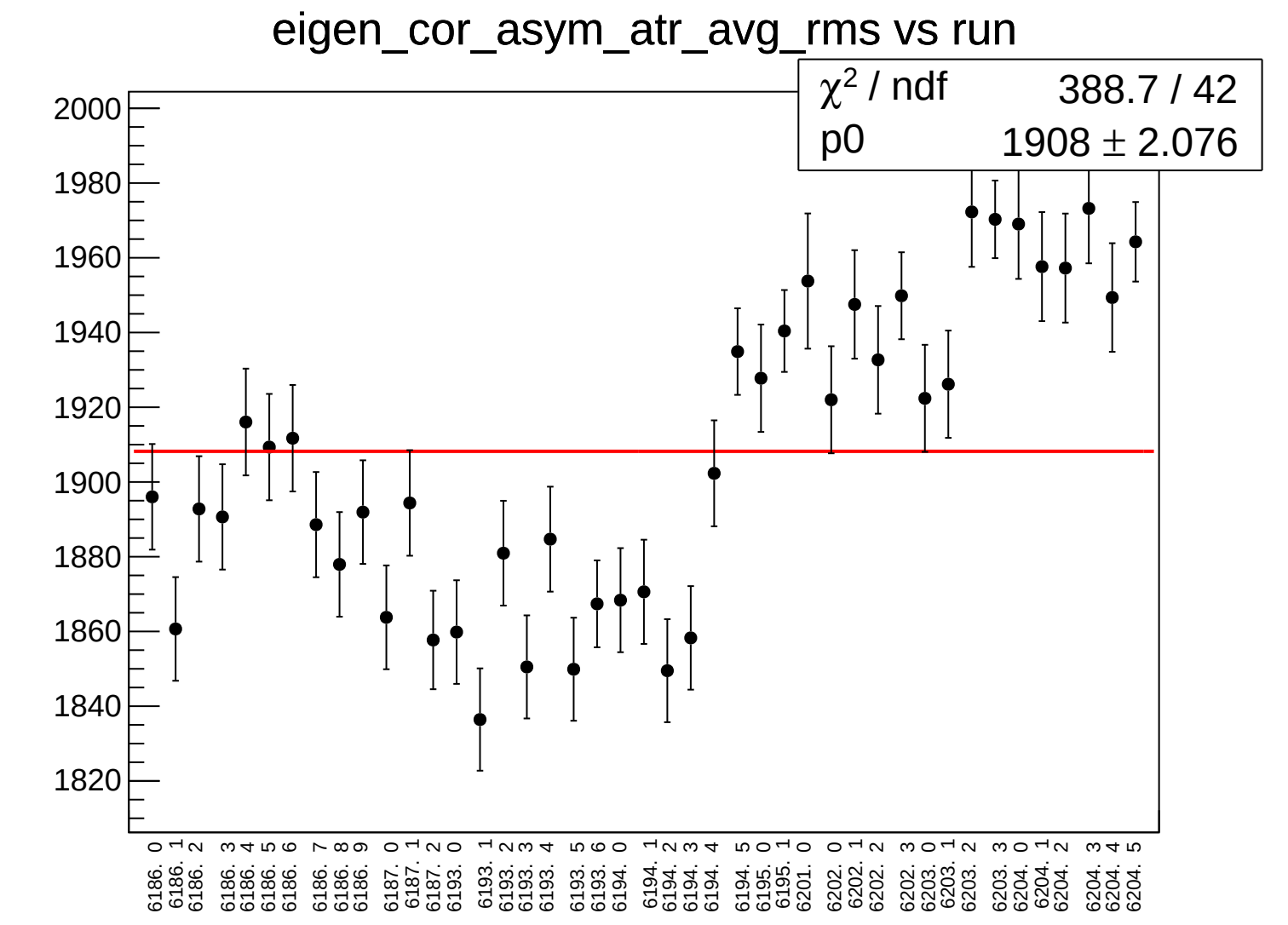

asym_atr_avg_cor_correction_mean vs run
χ² / ndf 60.53 / 42
p0 7664 ± 8378
×10³
pull
Entries 43
Mean 208.7
Std Dev 0

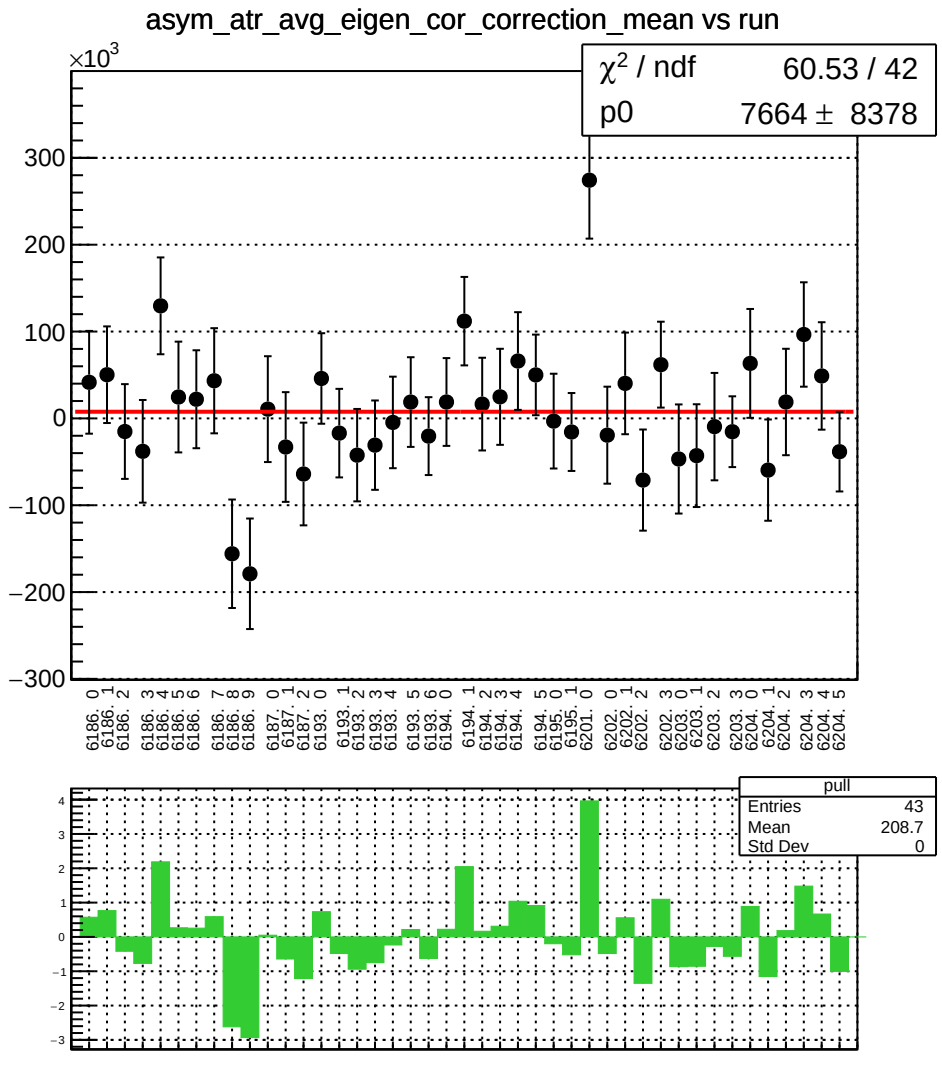

pull1D
Entries 43
Mean 0.00627
Std Dev 1.186

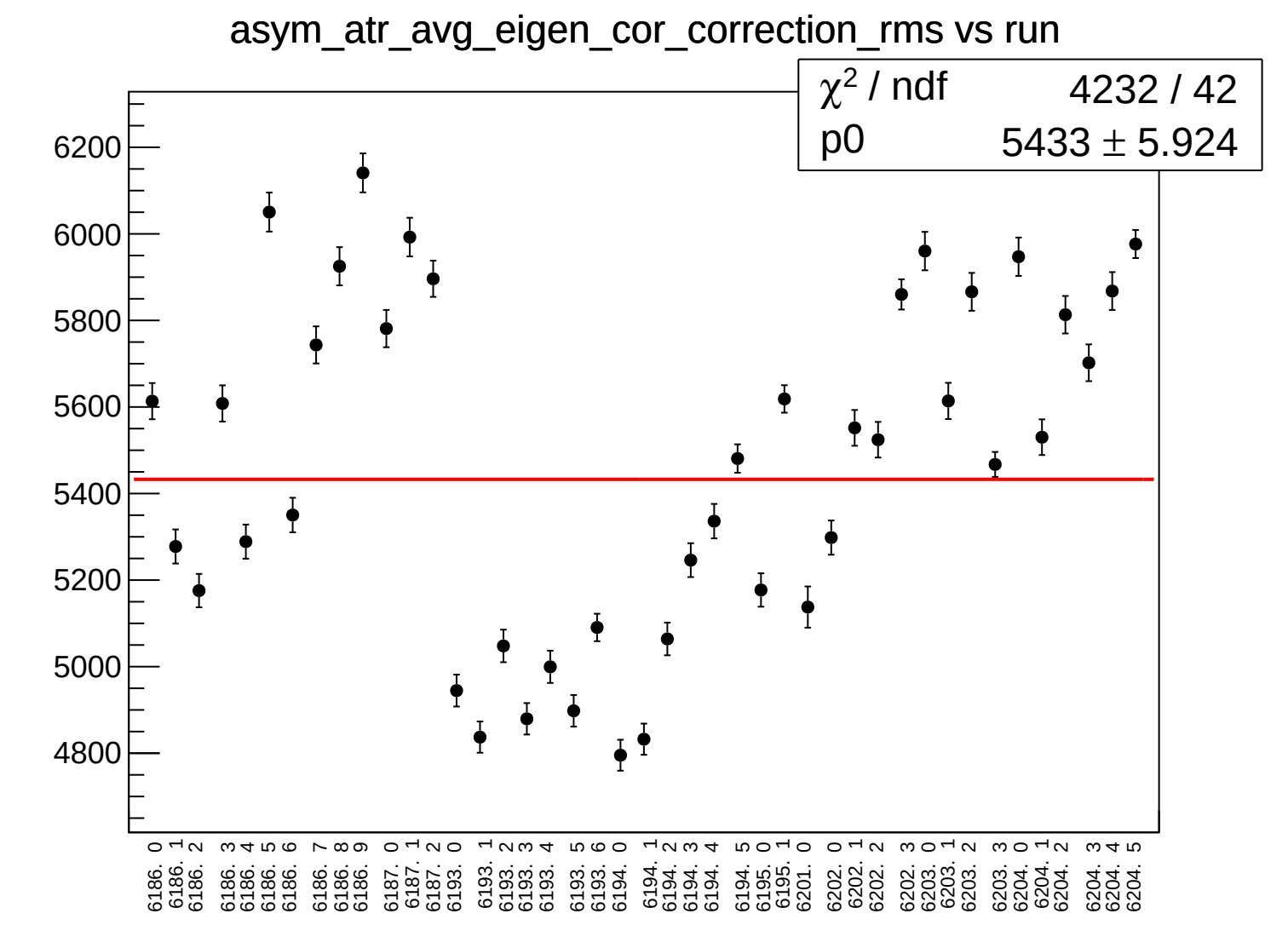

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 4232 / 42
p0 5433 ± 5.924
6200
6000
5800
5600
5400
5200
5000
4800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

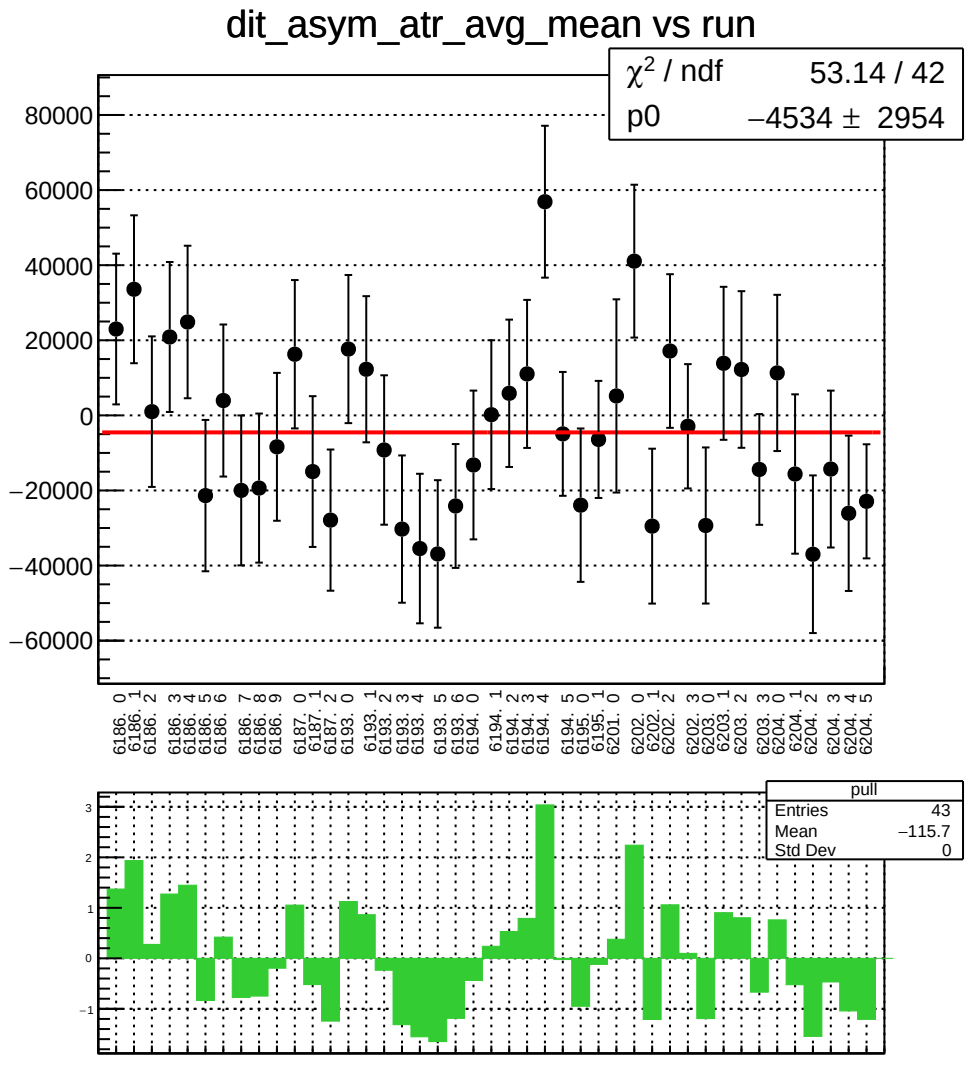

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 54.7 / 42
p0 −4736 ± 2936
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −124
Std Dev 0
3
2
1
0
−1

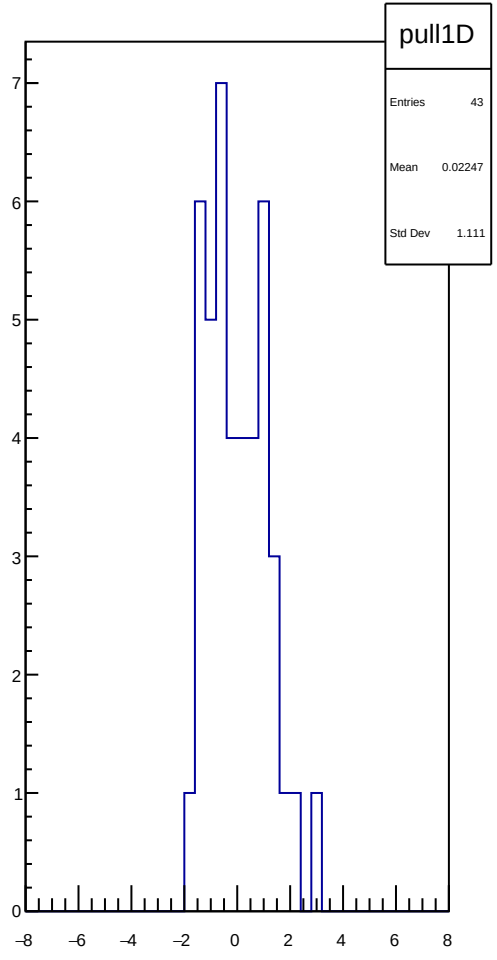

pull1D
Entries 43
Mean 0.02187
Std Dev 1.128
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

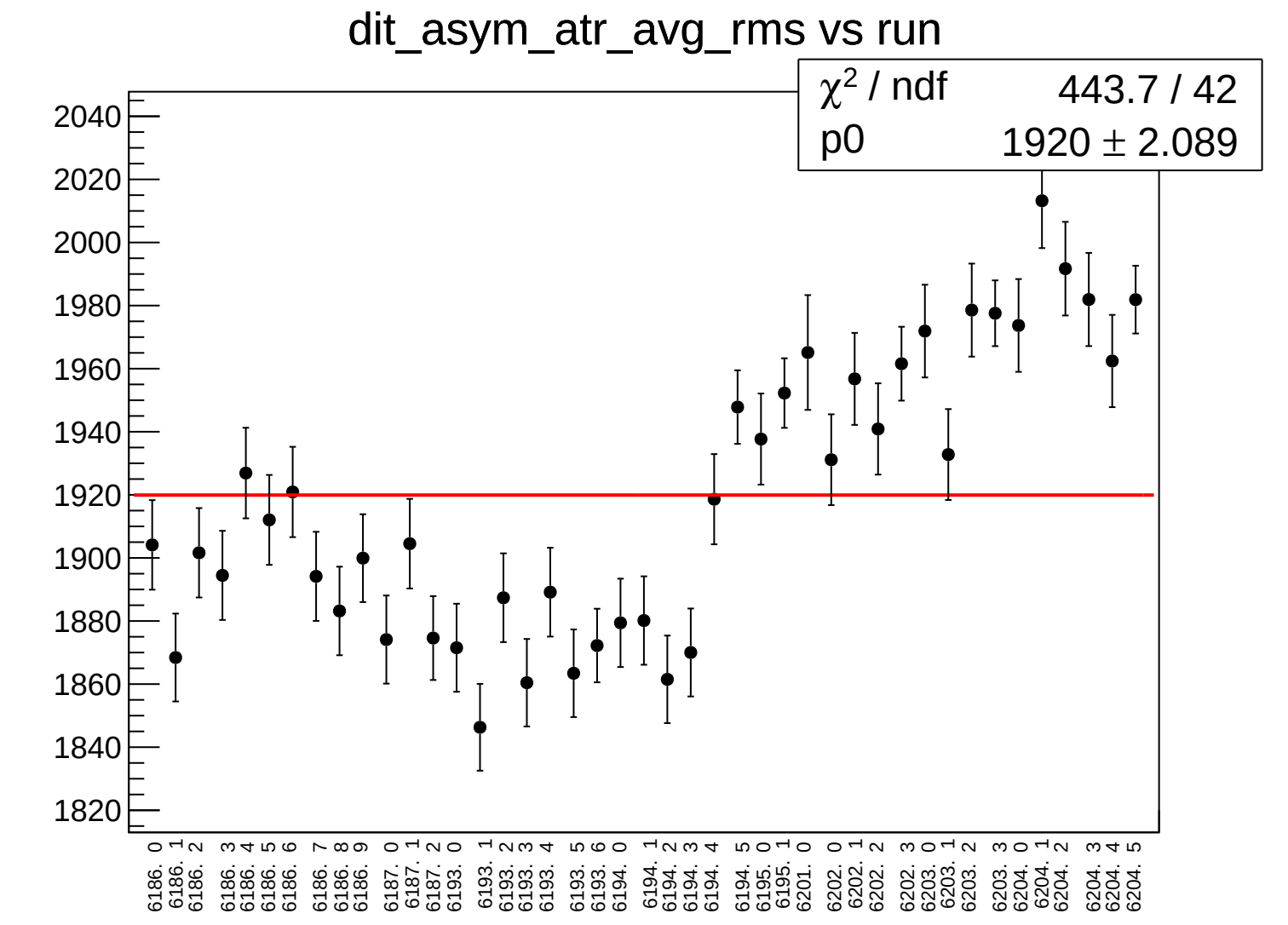

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 388.7 / 42
p0 1908 ± 2.076
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

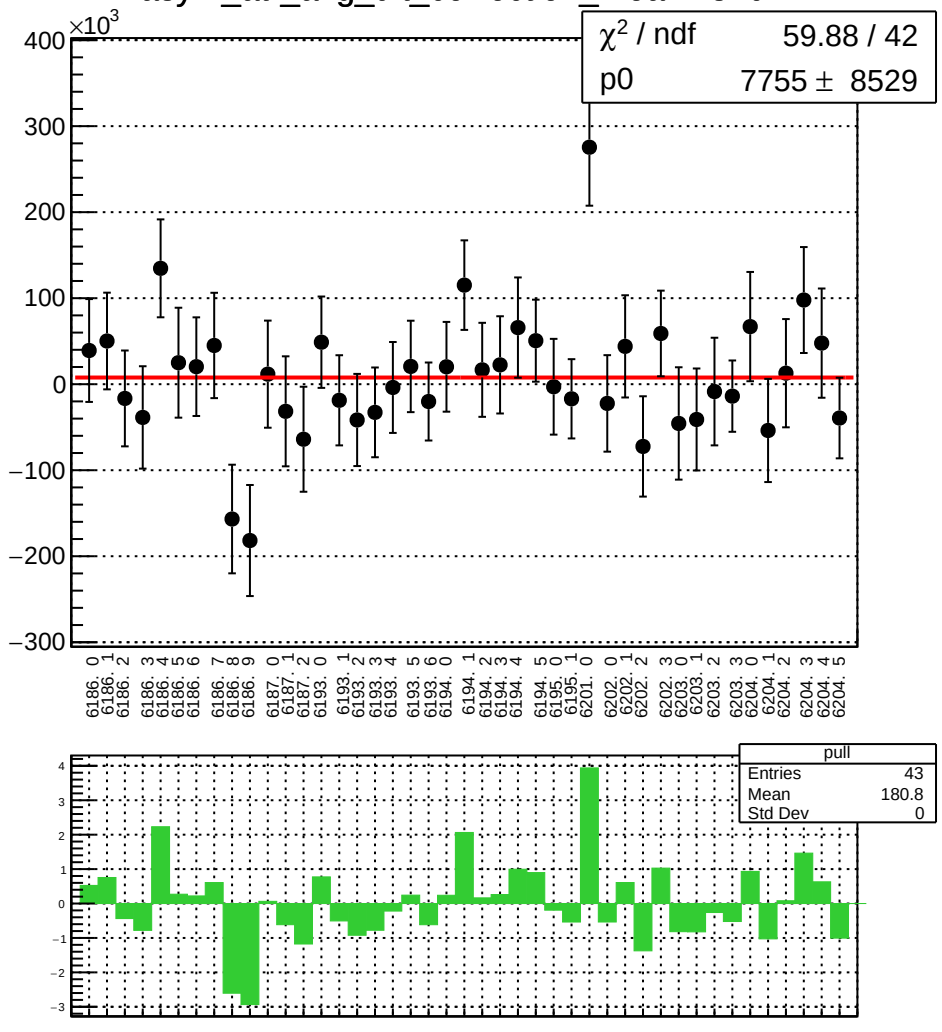

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 60.53 / 42
p0 7664 ± 8378
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 208.7
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.00627
Std Dev 1.186
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

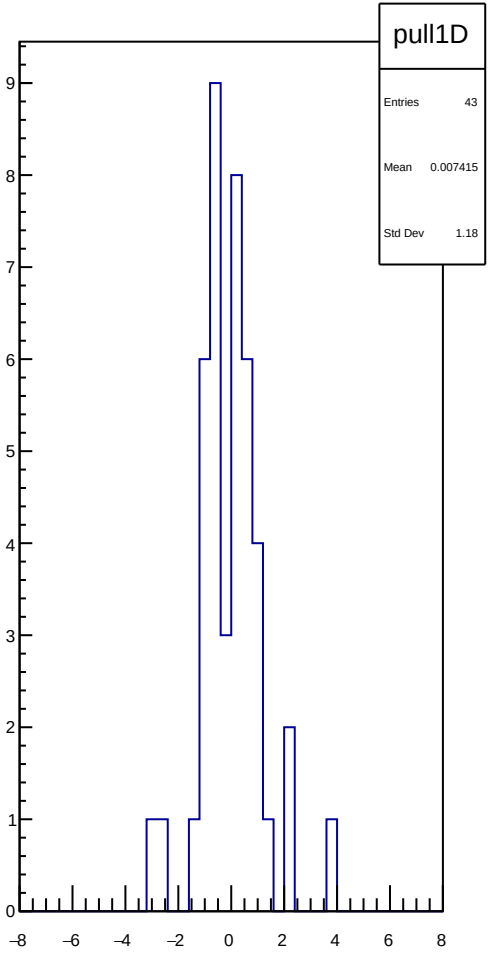

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 4232 / 42
p0 5433 ± 5.924
6200
6000
5800
5600
5400
5200
5000
4800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

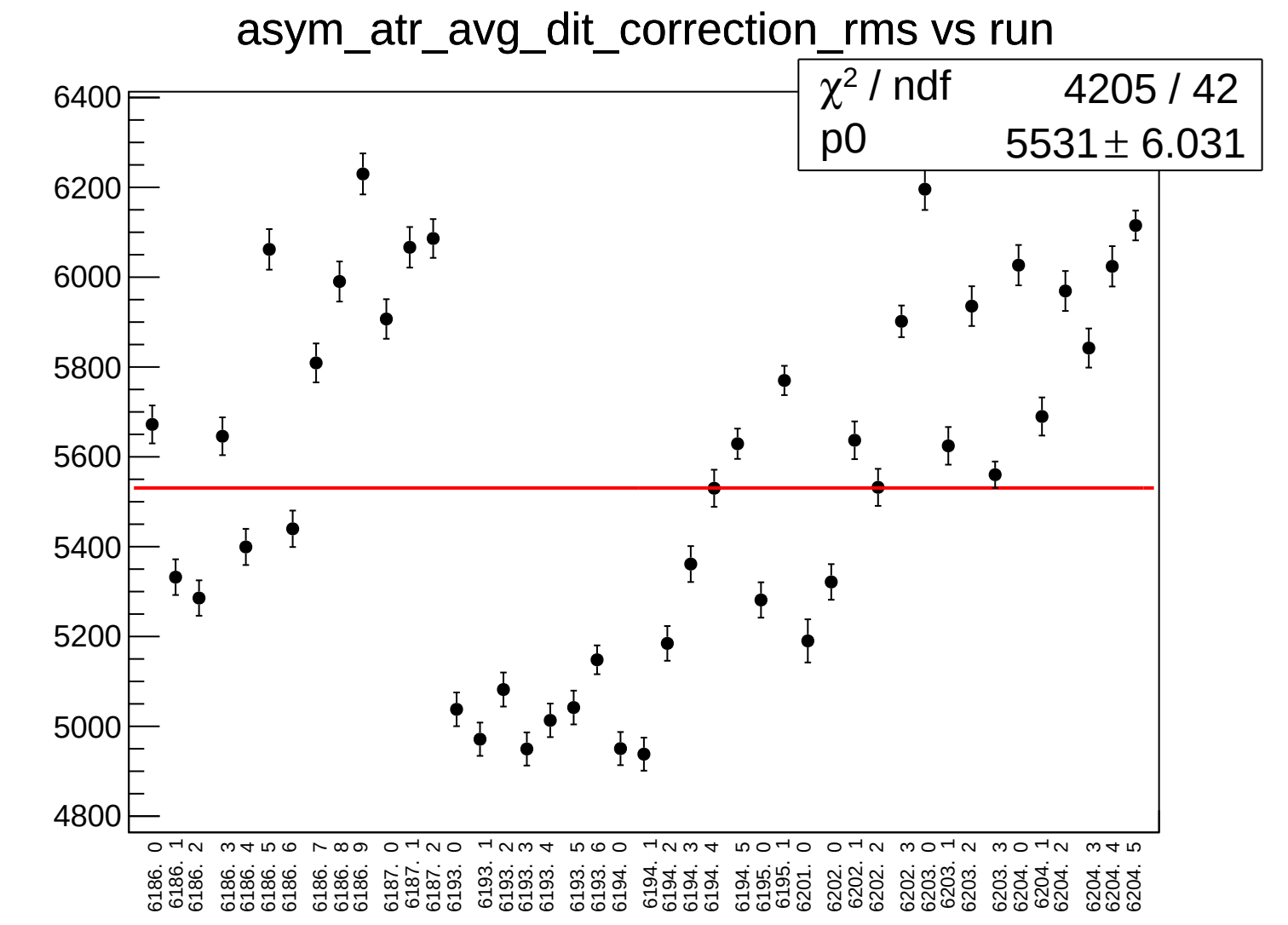

dit_asym_atr_avg_mean vs run
χ² / ndf 53.14 / 42
p0 −4534 ± 2954
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −115.7
Std Dev 0
3
2
1
0
−1

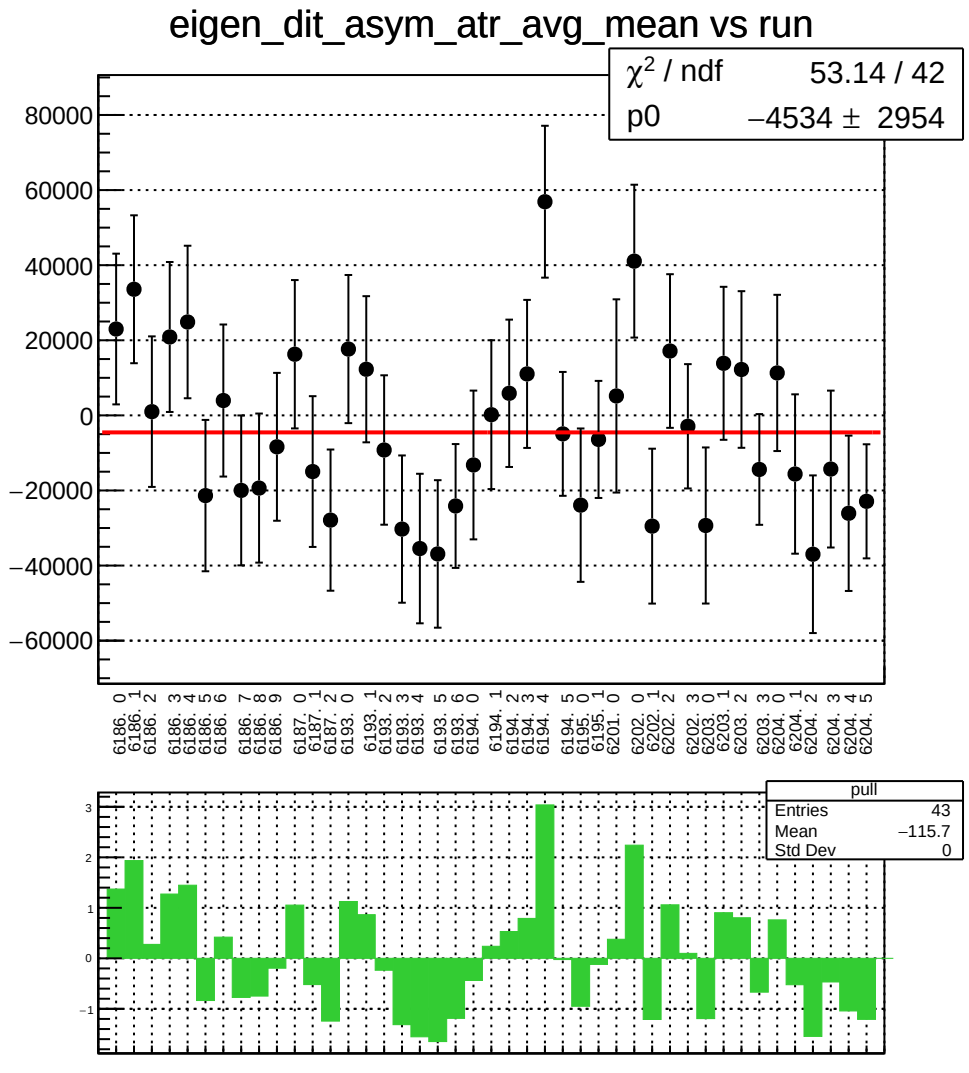

pull1D
Entries 43
Mean 0.02247
Std Dev 1.111
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

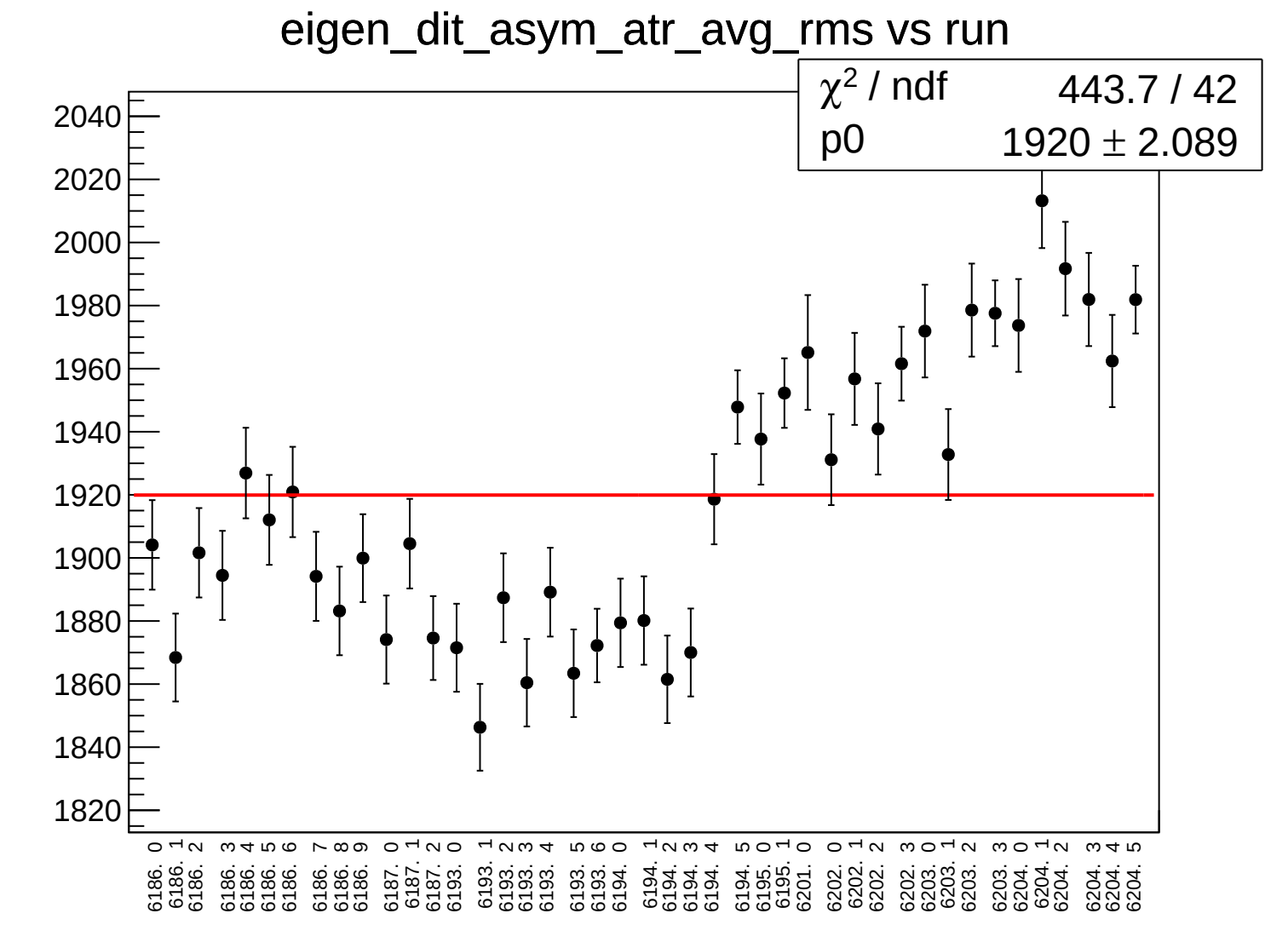

dit_asym_atr_avg_rms vs run
χ² / ndf 443.7 / 42
p0 1920 ± 2.089
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 59.88 / 42
p0 7755 ± 8529
pull
Entries 43
Mean 180.8
Std Dev 0


pull1D
Entries 43
Mean 0.007415
Std Dev 1.18


asym_atr_avg_dit_correction_rms vs run
χ² / ndf 4205 / 42
p0 5531 ± 6.031
6400
6200
6000
5800
5600
5400
5200
5000
4800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 53.14 / 42
p0 −4534 ± 2954
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −115.7
Std Dev 0
3
2
1
0
−1
pull1D
Entries 43
Mean 0.02247
Std Dev 1.111
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 443.7 / 42
p0 1920 ± 2.089
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
6204. 0
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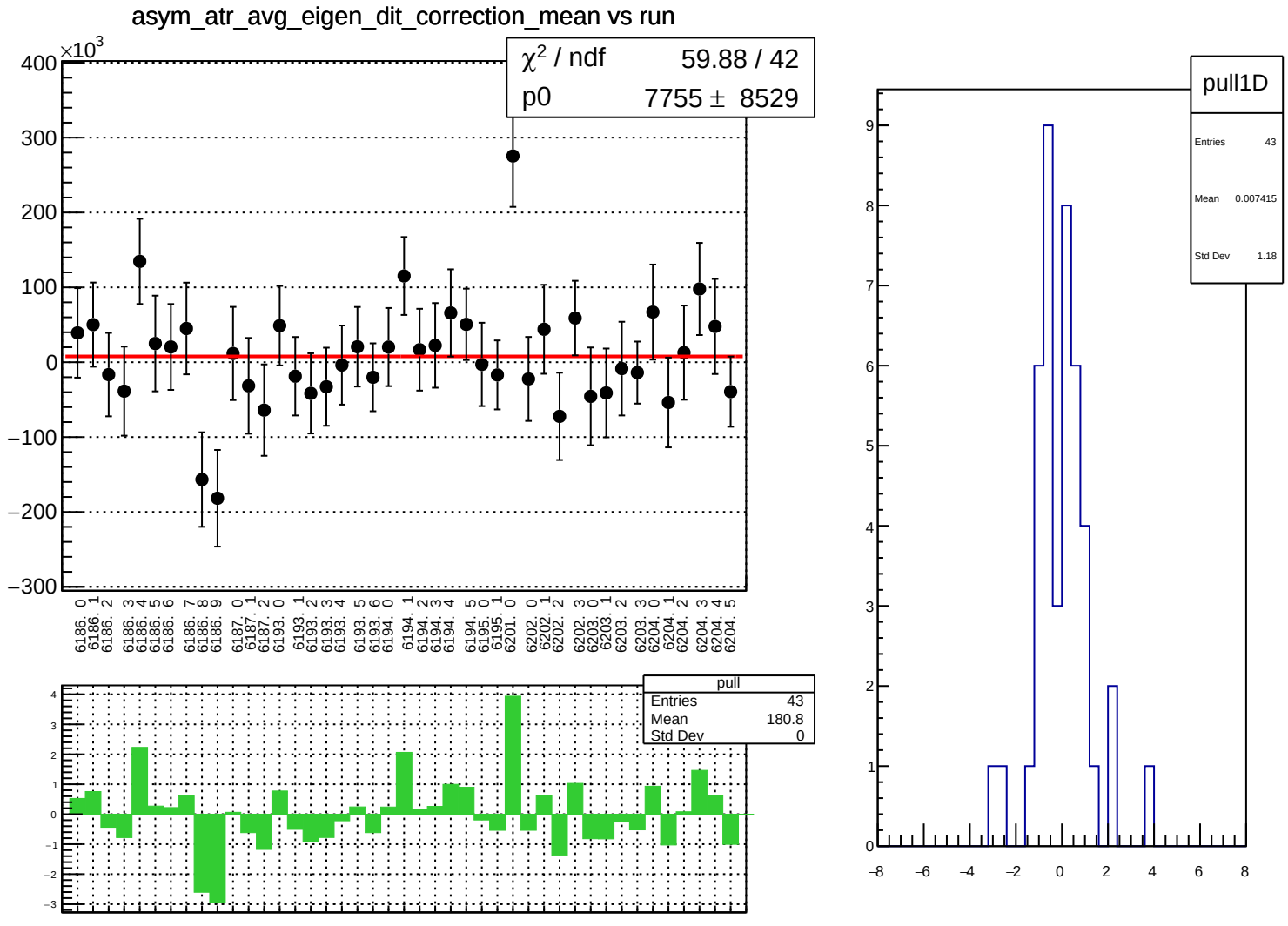
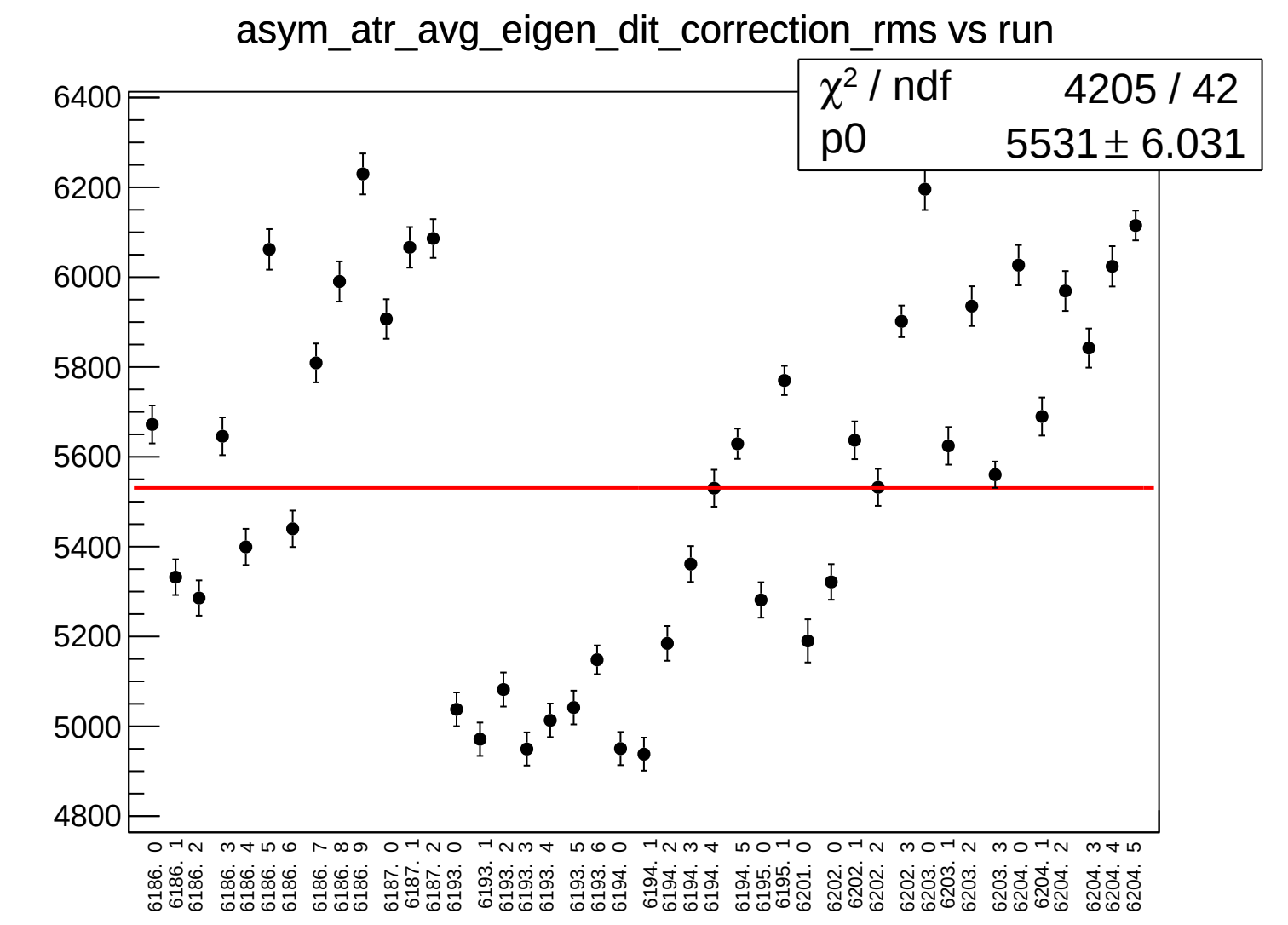
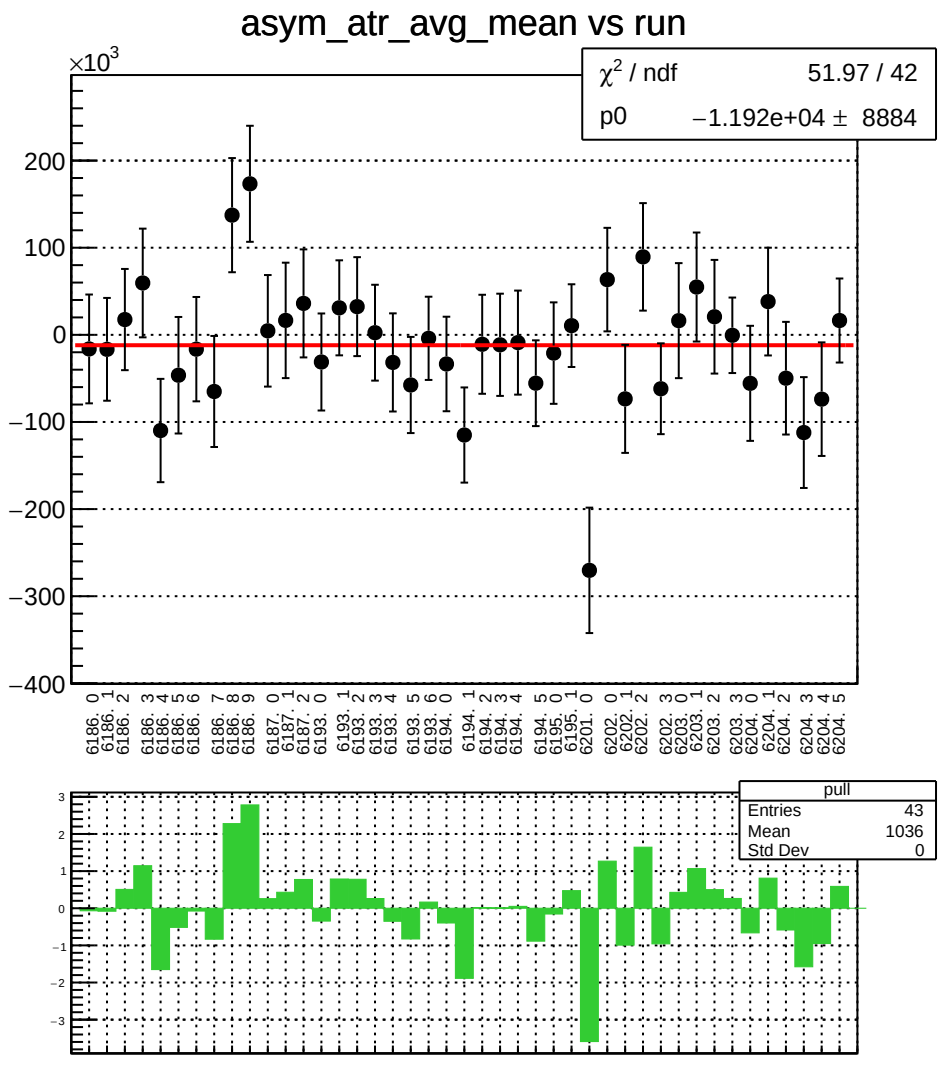
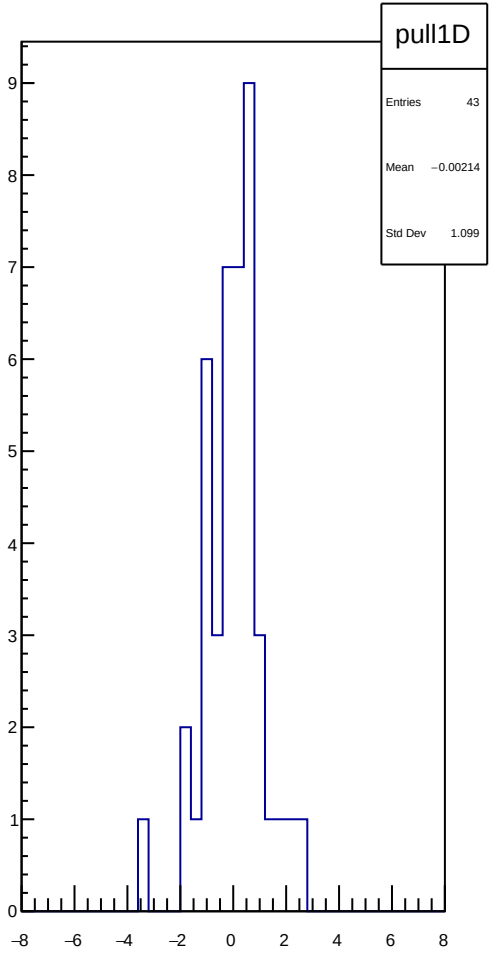
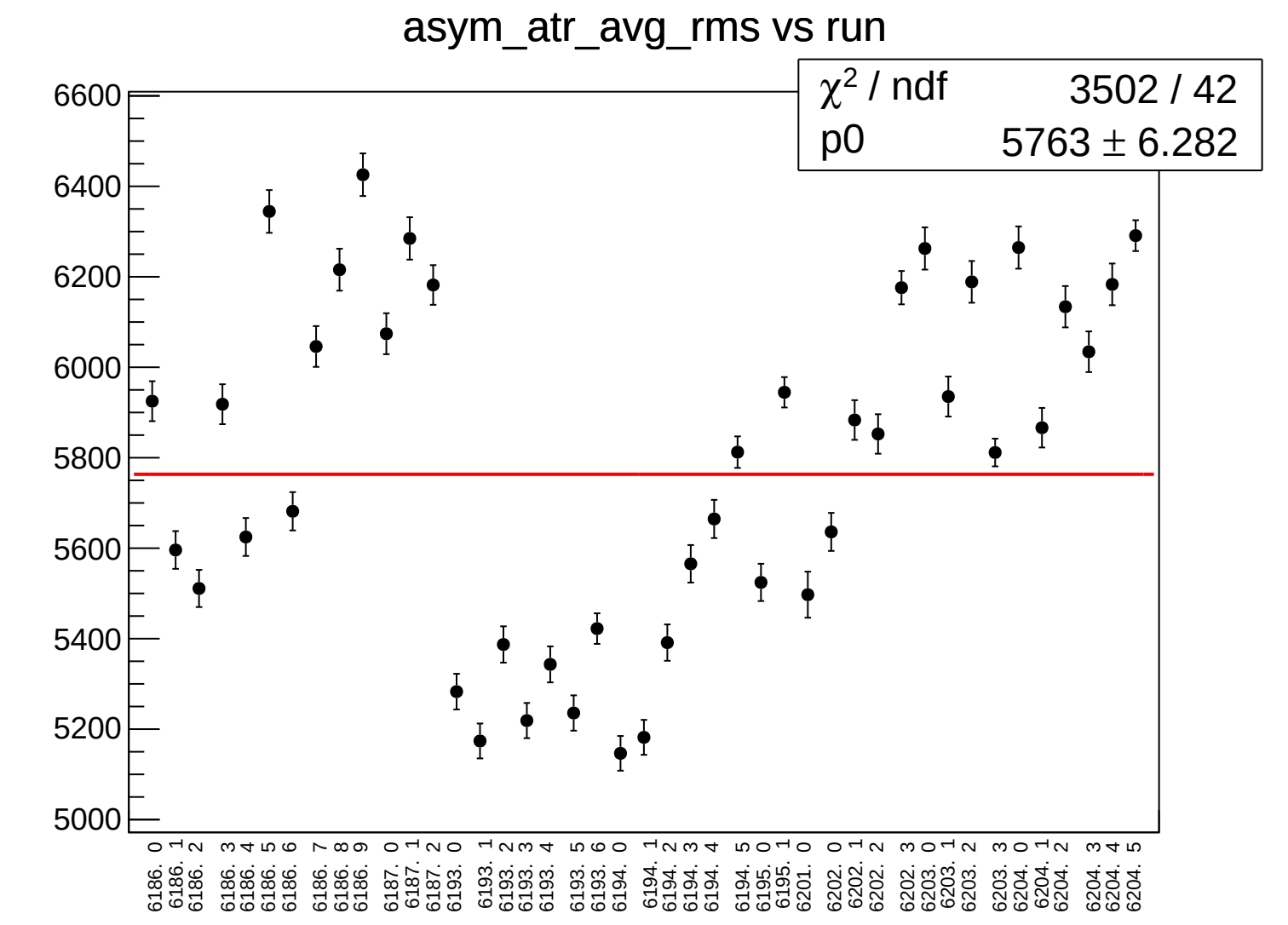
6204. 3
6204. 4
6204. 5

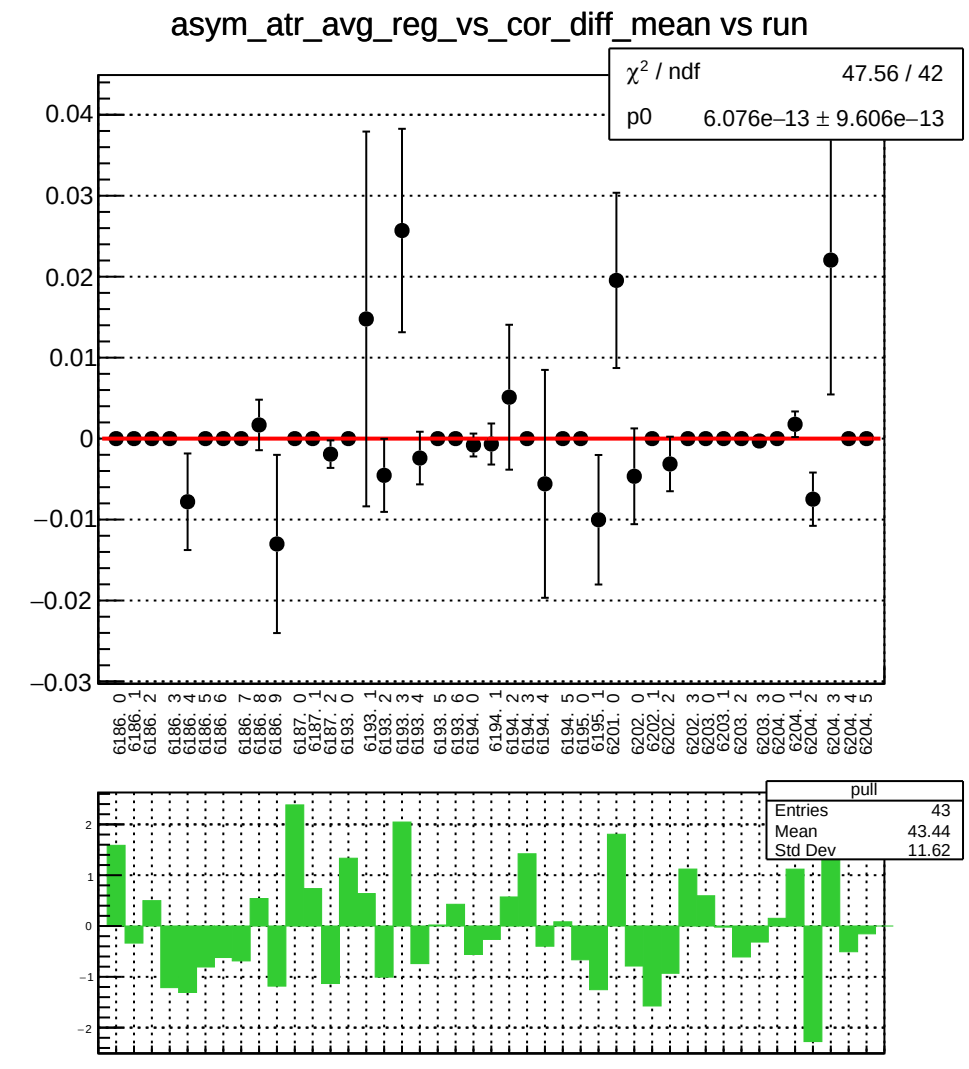

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 59.88 / 42
p0 7755 ± 8529
pull
Entries 43
Mean 180.8
Std Dev 0
pull1D
Entries 43
Mean 0.007415
Std Dev 1.18

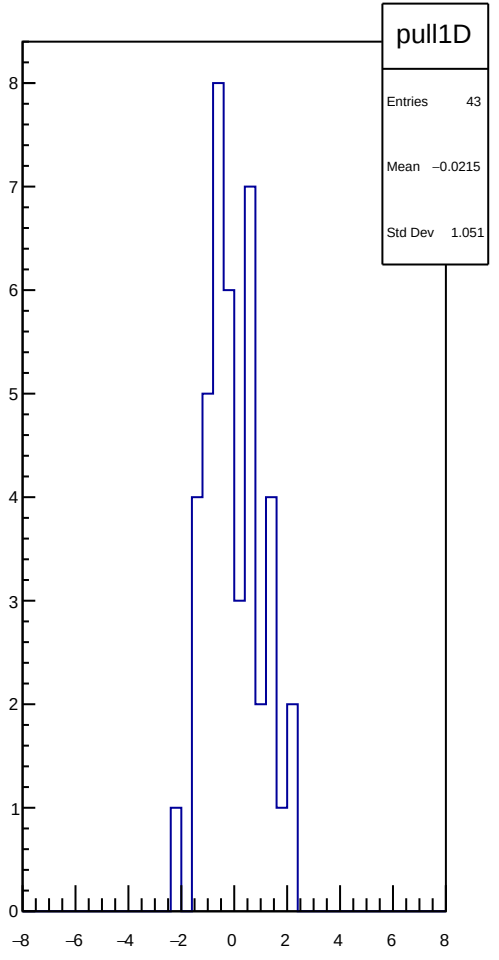

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 4205 / 42
p0 5531 ± 6.031
6400
6200
6000
5800
5600
5400
5200
5000
4800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

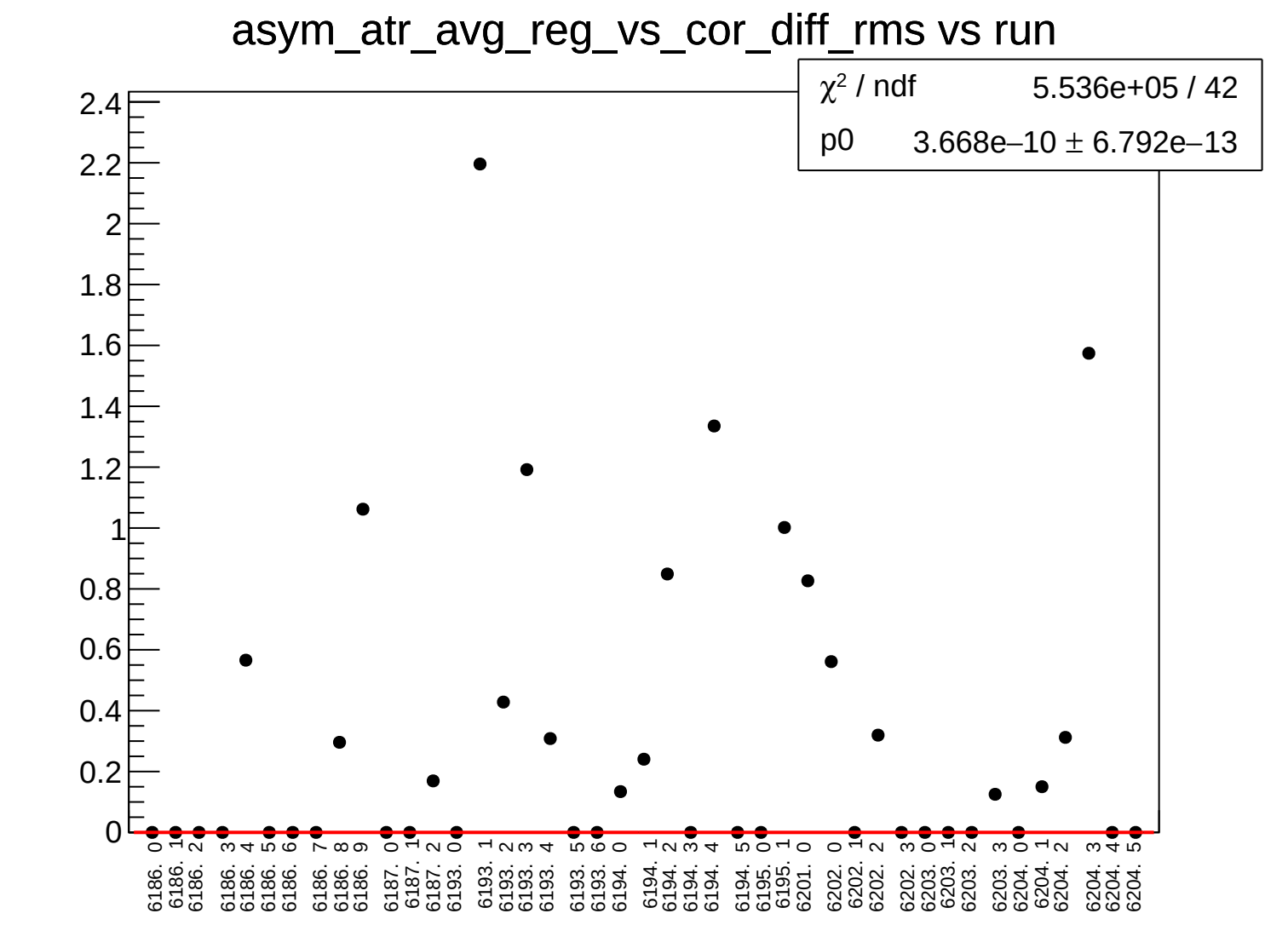

asym_atr_avg_mean vs run
×10^3
χ² / ndf 51.97 / 42
p0 −1.192e+04 ± 8884
200
100
0
−100
−200
−300
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1036
Std Dev 0
3
2
1
0
−1
−2
−3

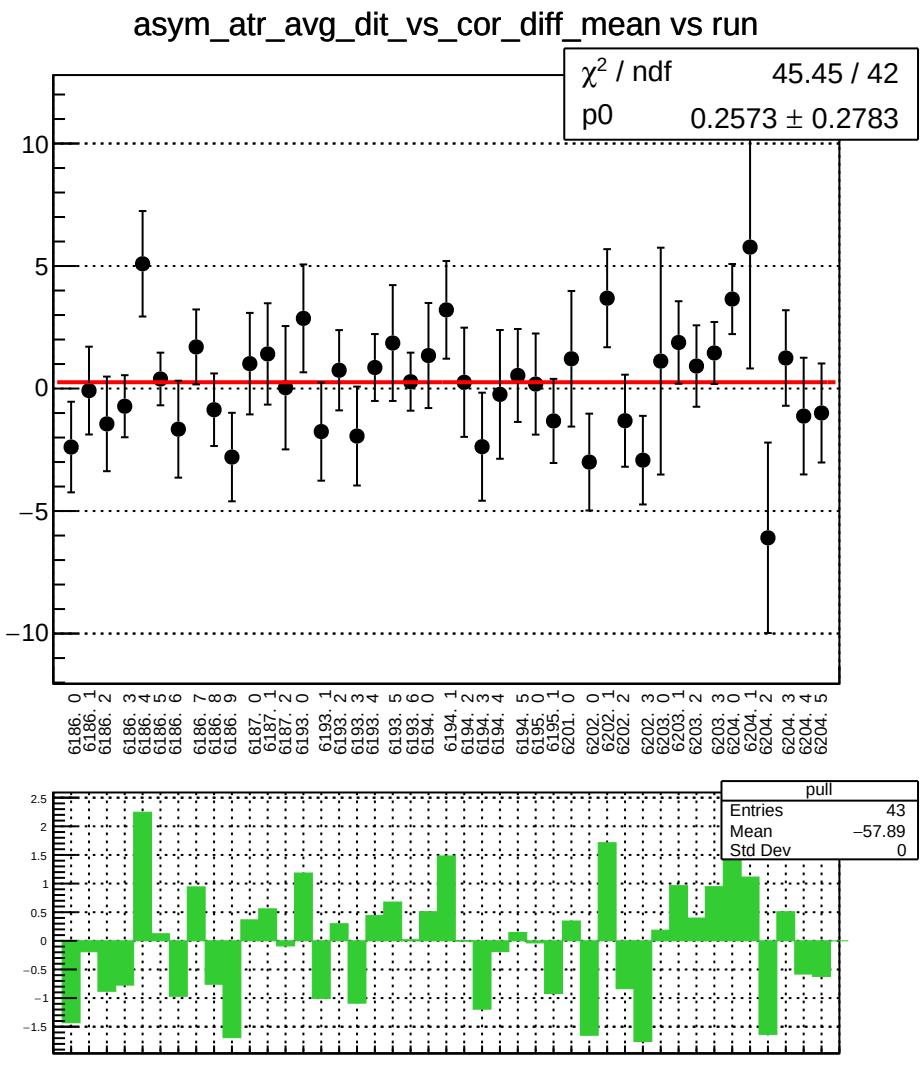

pull1D
Entries 43
Mean −0.00214
Std Dev 1.099
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

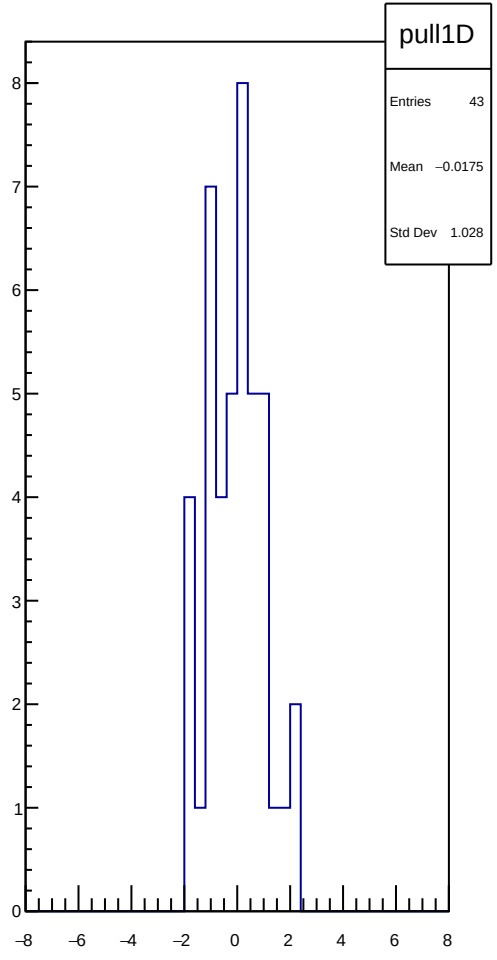

asym_atr_avg_rms vs run
χ² / ndf 3502 / 42
p0 5763 ± 6.282
6600
6400
6200
6000
5800
5600
5400
5200
5000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

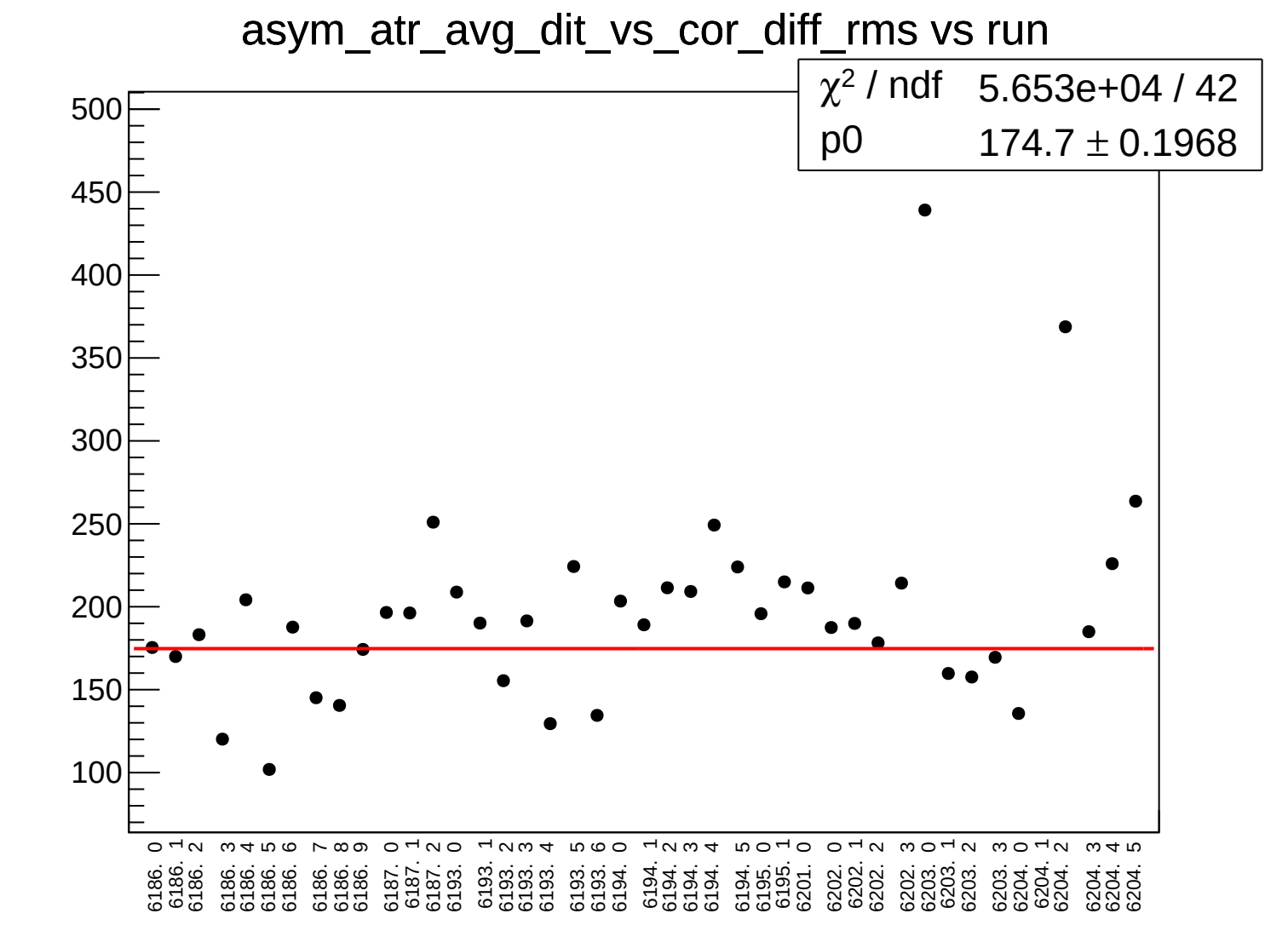

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 47.56 / 42
p0 6.076e−13 ± 9.606e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 43.44
Std Dev 11.62
2
1
0
−1
−2

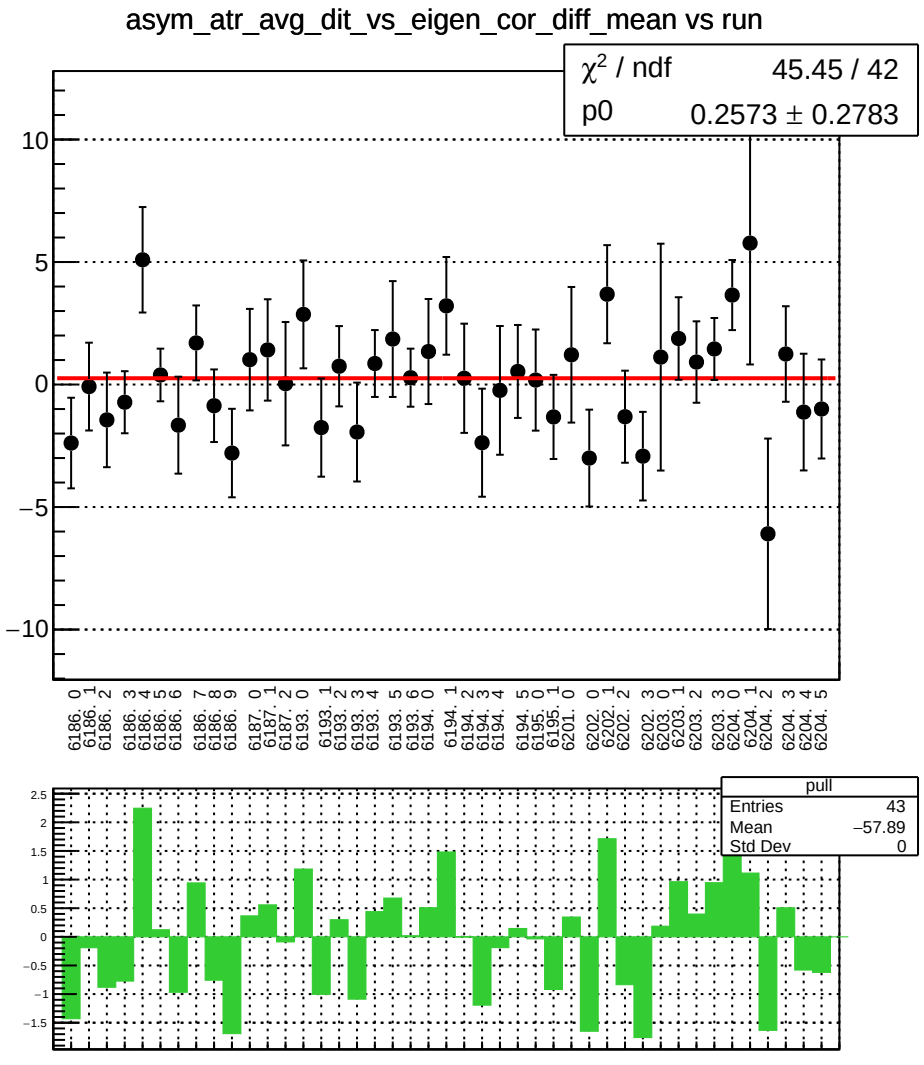

pull1D
Entries 43
Mean −0.0215
Std Dev 1.051
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

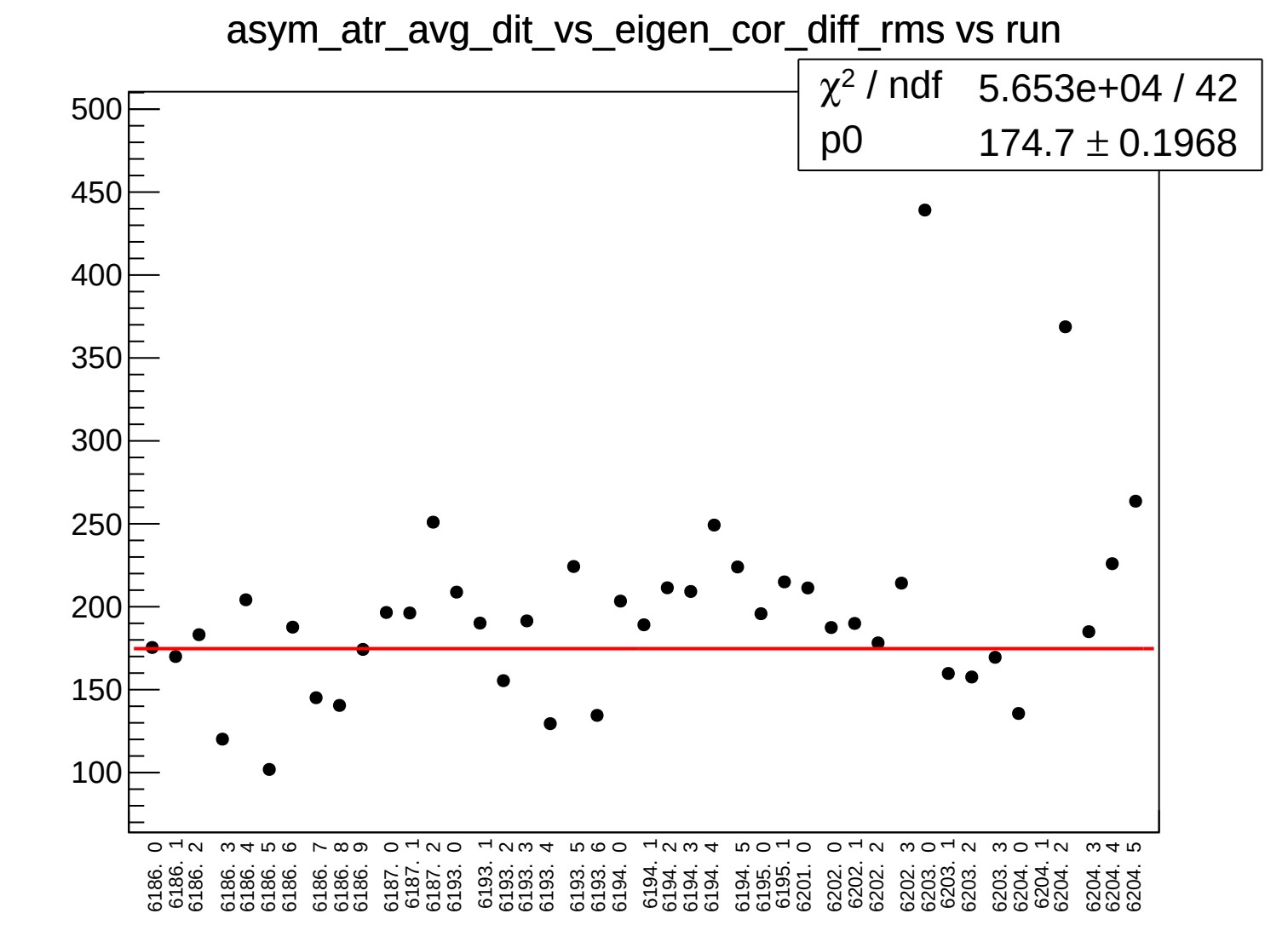

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.536e+05 / 42
p0 3.668e−10 ± 6.792e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

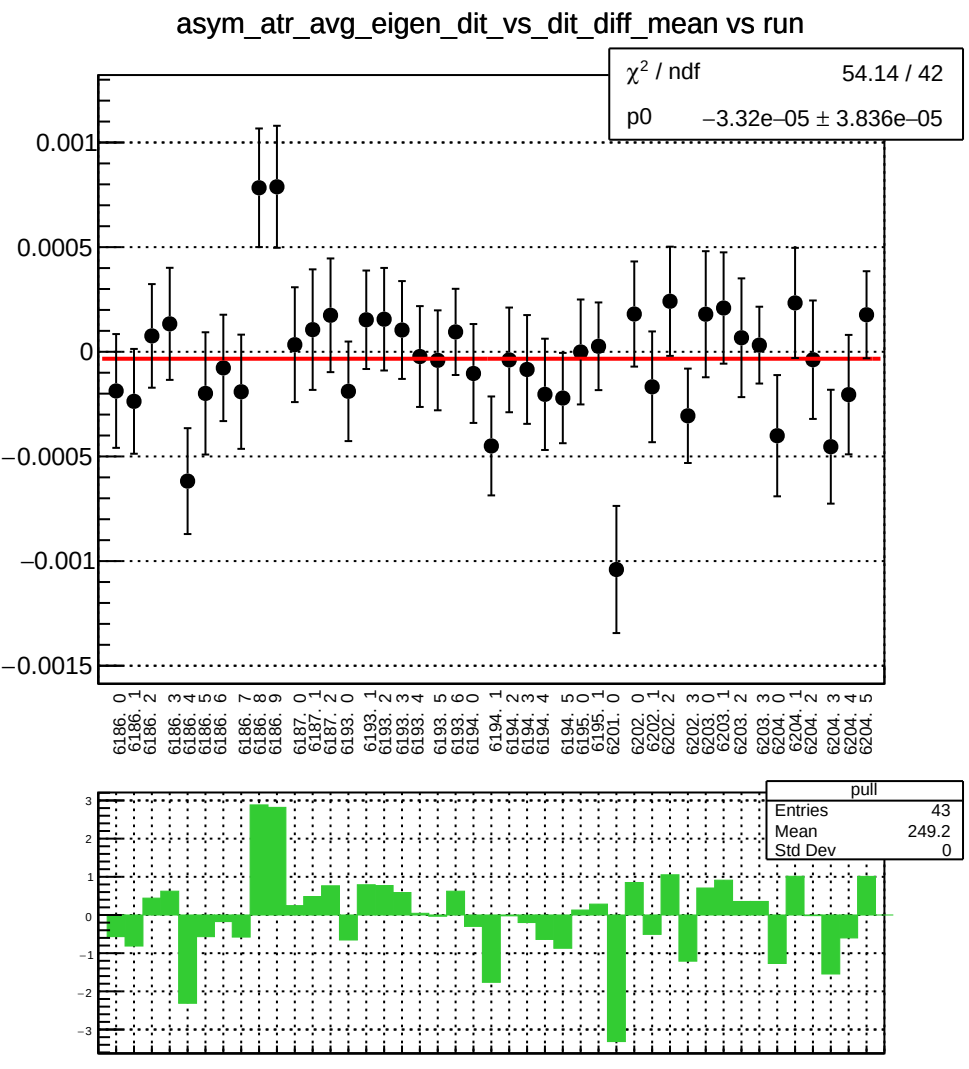

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 45.45 / 42
p0 0.2573 ± 0.2783
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −57.89
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

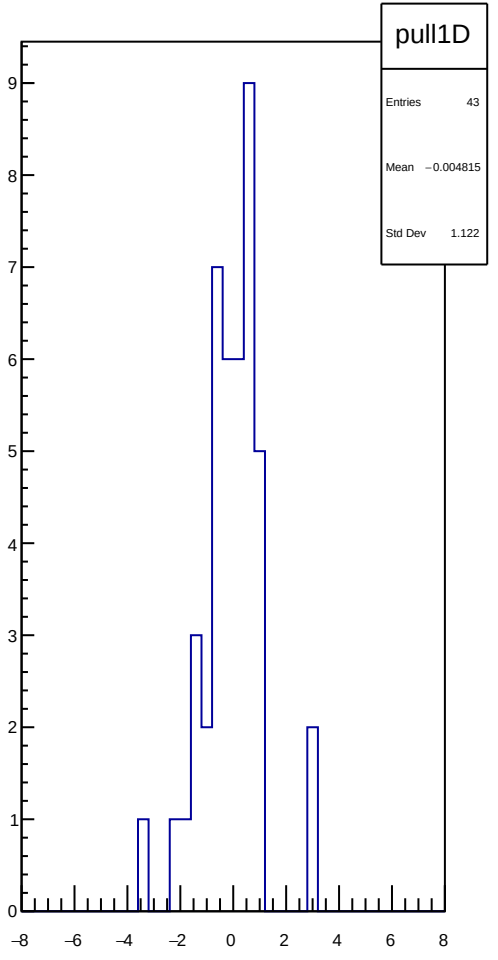

pull1D
Entries 43
Mean −0.0175
Std Dev 1.028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

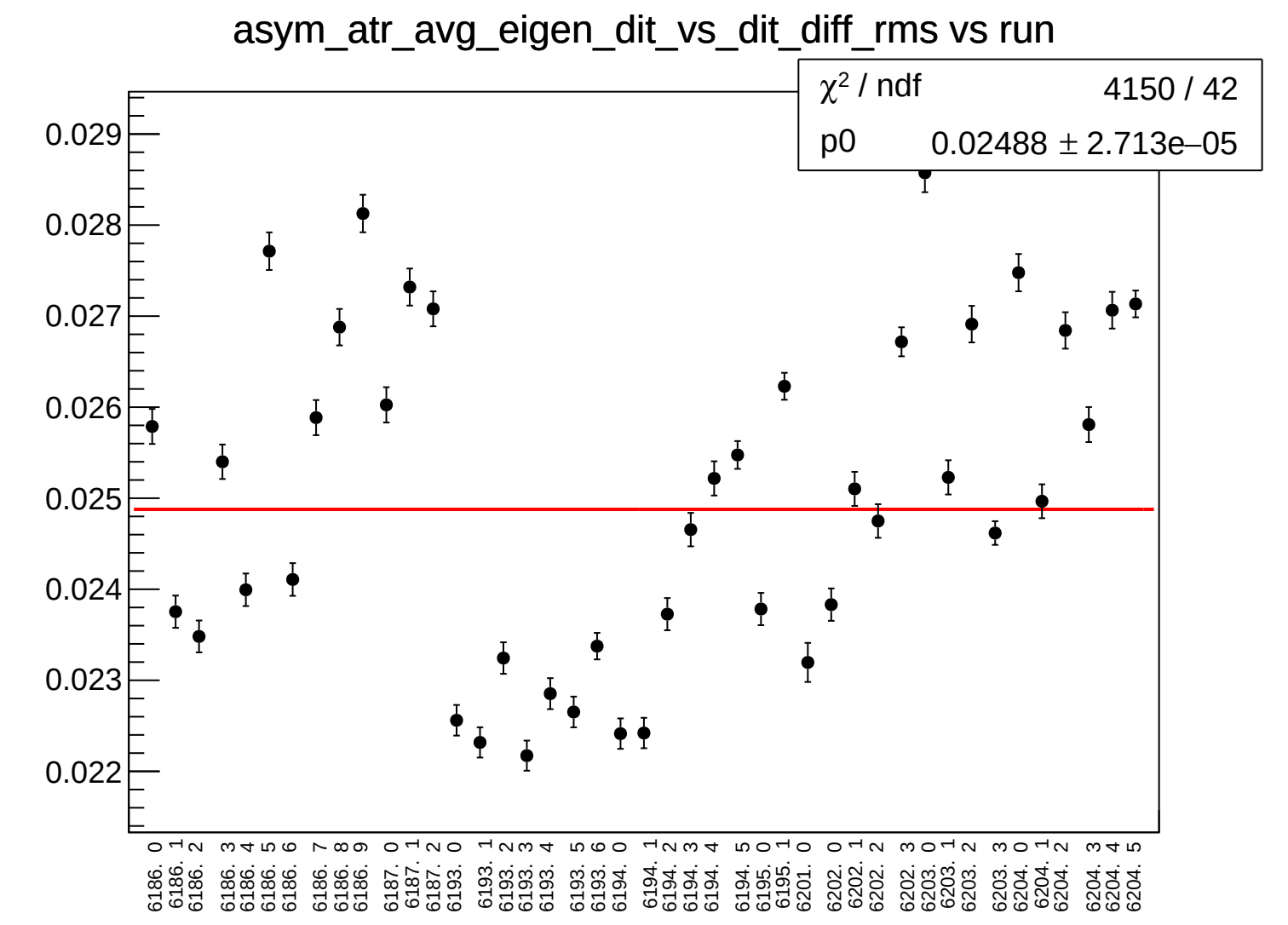

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.653e+04 / 42
p0 174.7 ± 0.1968
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

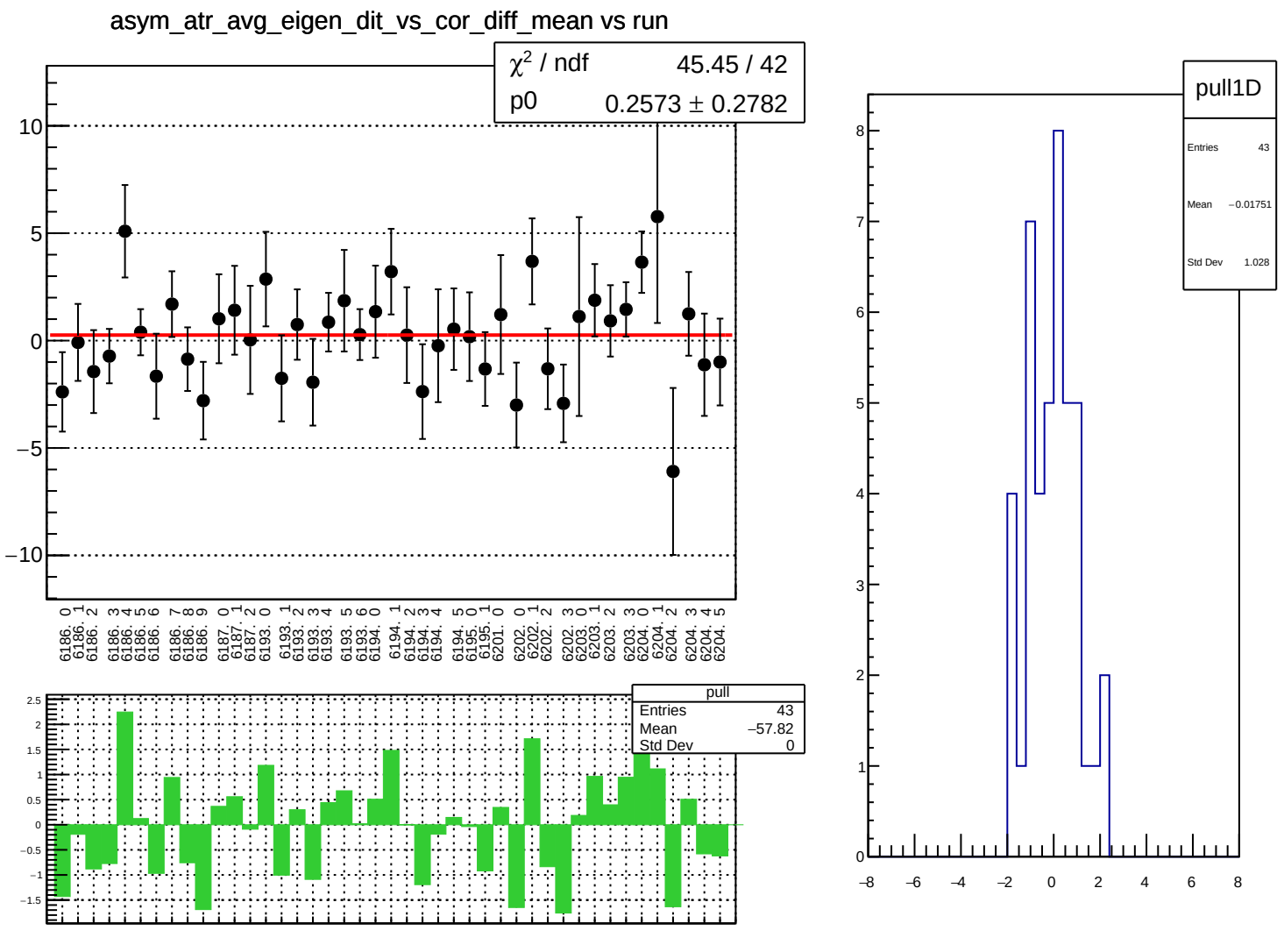

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.45 / 42
p0 0.2573 ± 0.2783
pull
Entries 43
Mean −57.89
Std Dev 0
pull1D
Entries 43
Mean −0.0175
Std Dev 1.028

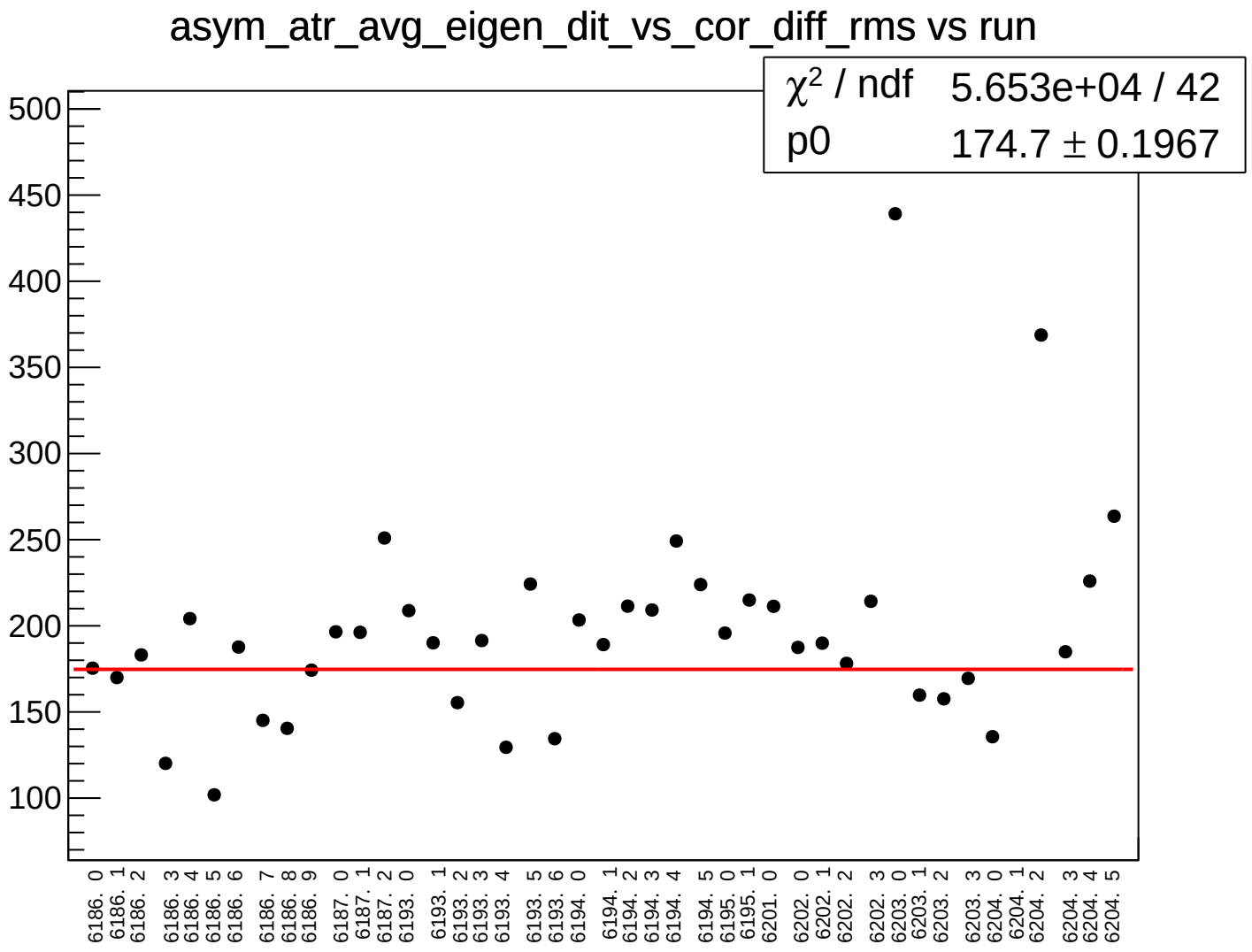

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.653e+04 / 42
p0 174.7 ± 0.1968
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

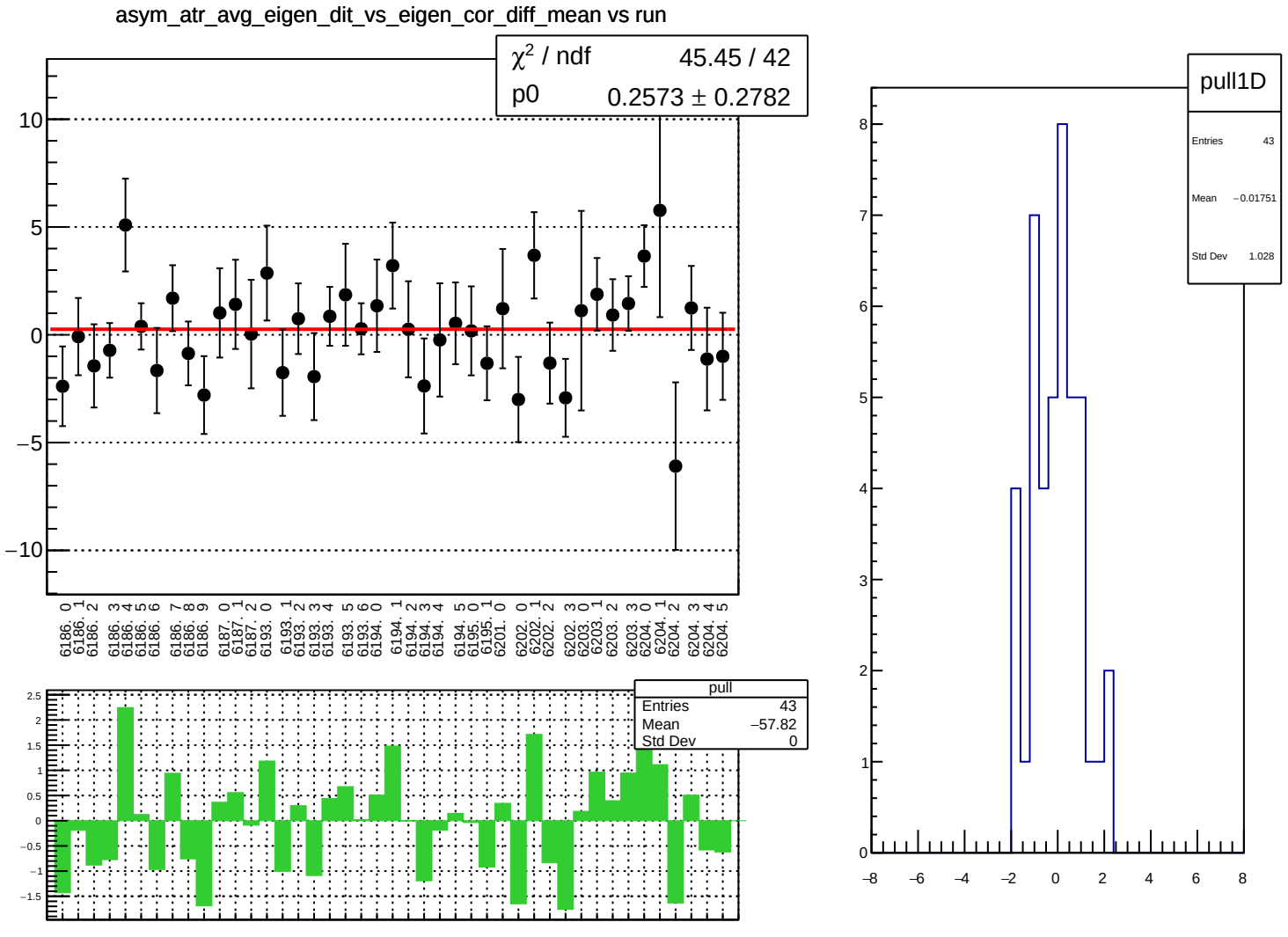

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 54.14 / 42
p0 −3.32e−05 ± 3.836e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 249.2
Std Dev 0
3
2
1
0
−1
−2
−3

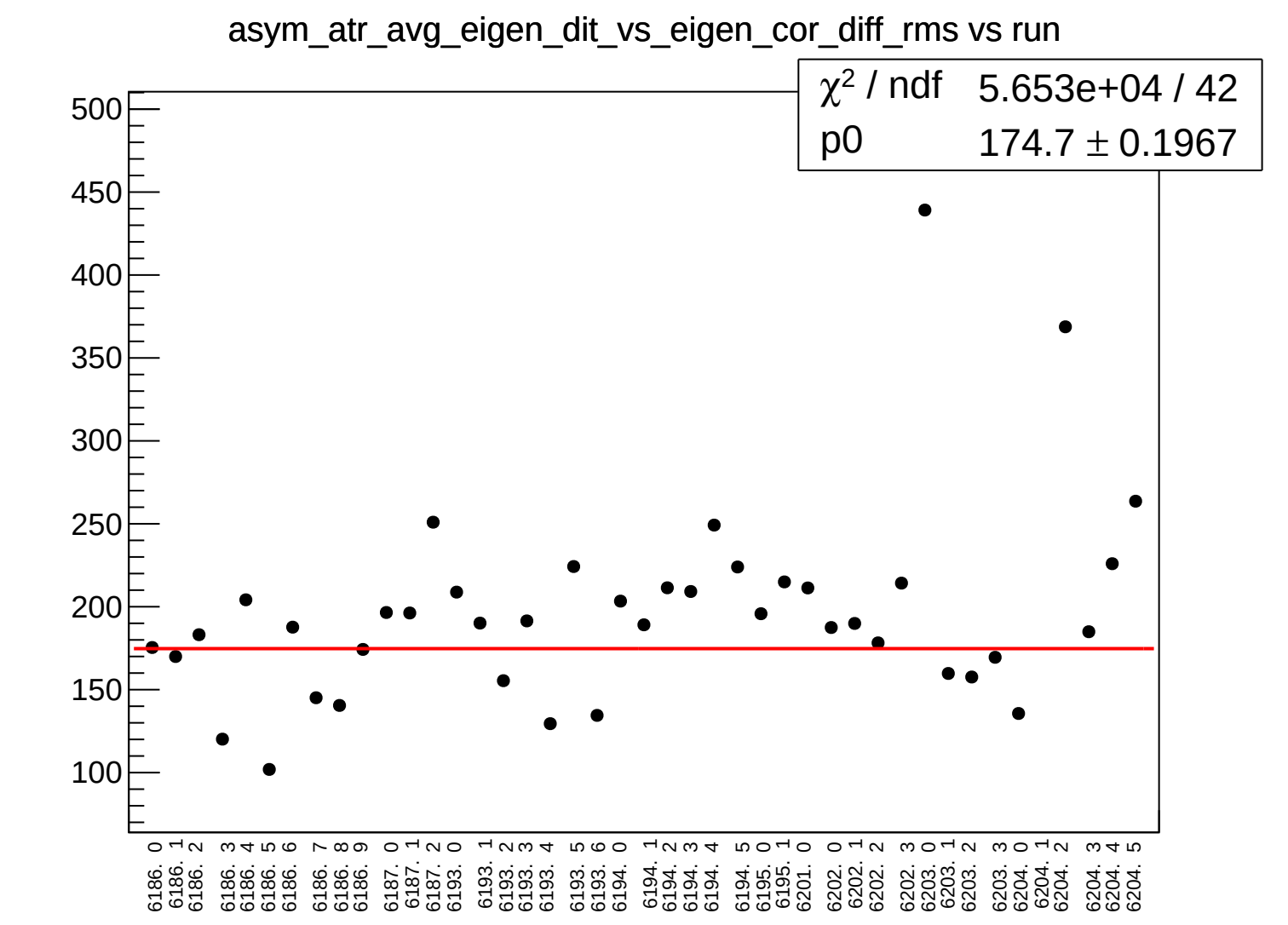

pull1D
Entries 43
Mean −0.004815
Std Dev 1.122
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

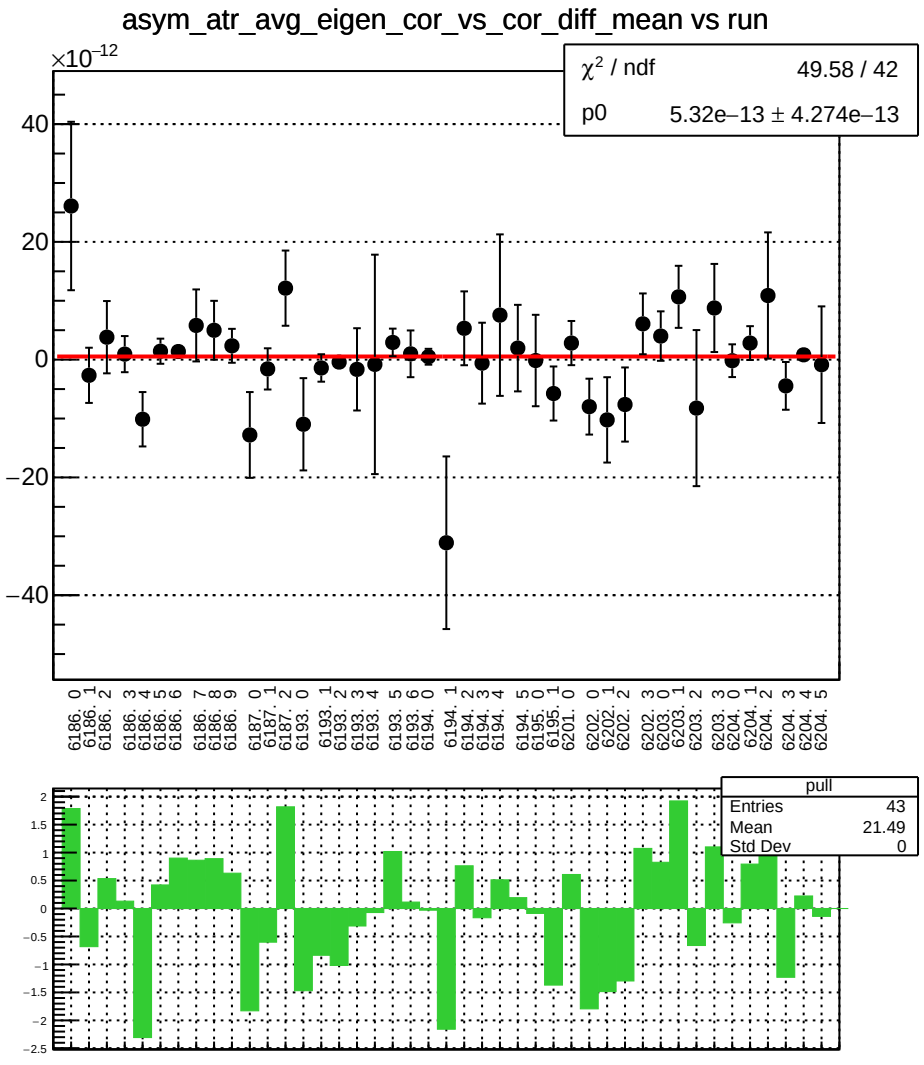

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4150 / 42
p0 0.02488 ± 2.713e−05
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

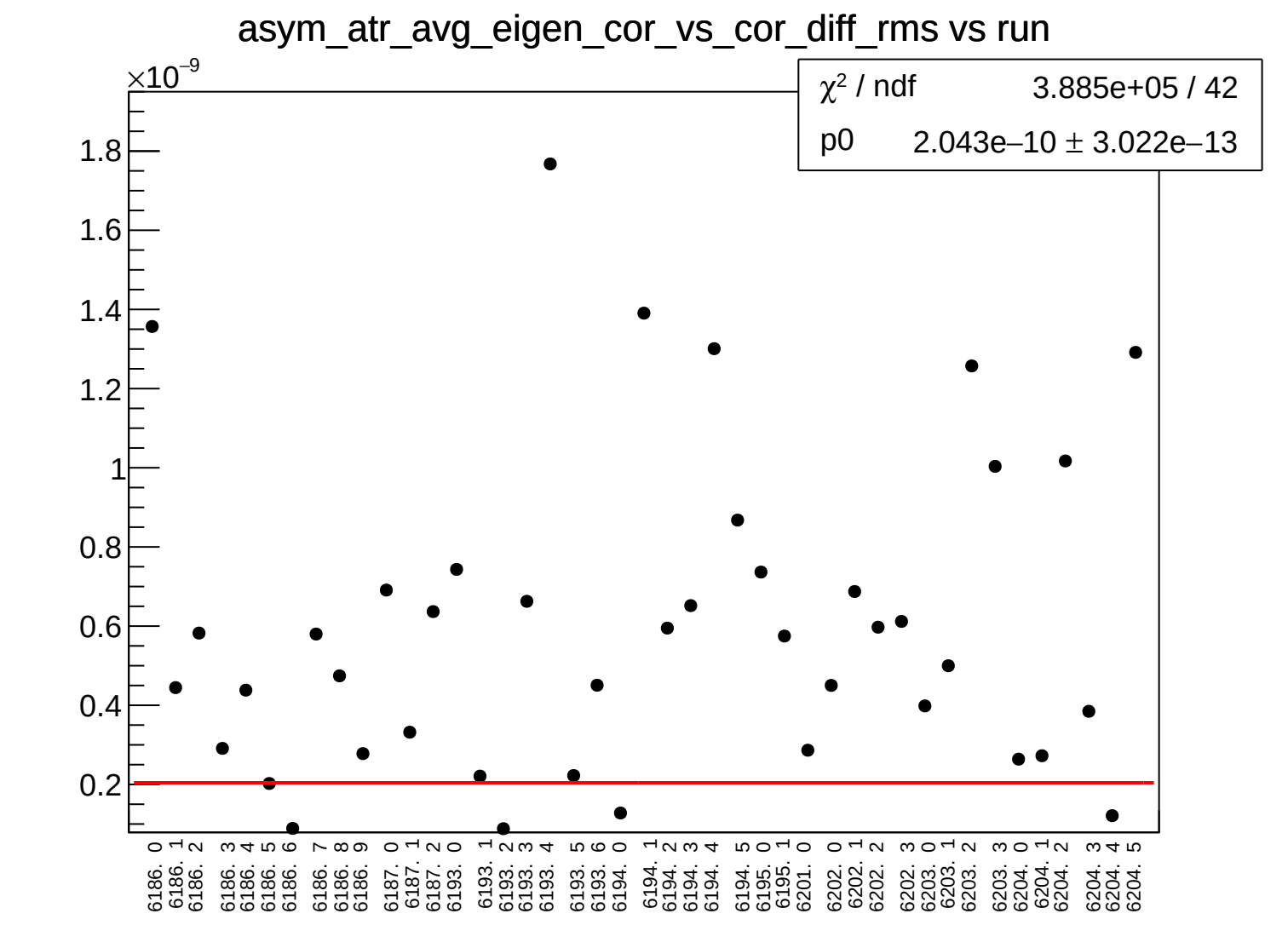

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45.45 / 42
p0 0.2573 ± 0.2782
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −57.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01751
Std Dev 1.028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

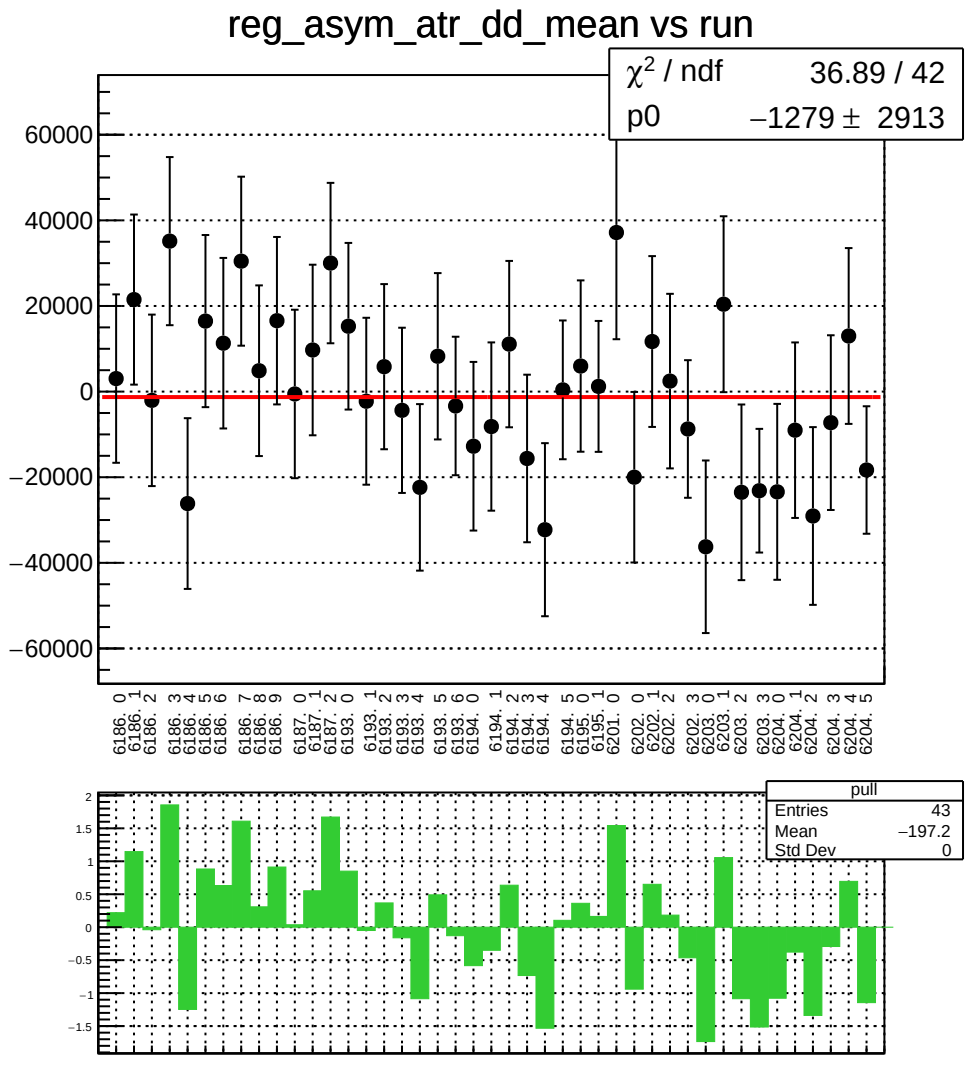

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.653e+04 / 42
p0 174.7 ± 0.1967
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

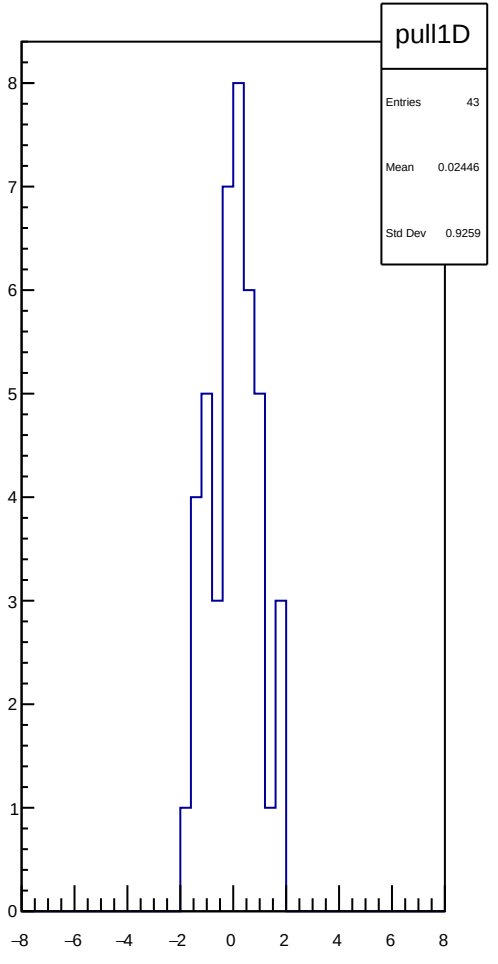

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.45 / 42
p0 0.2573 ± 0.2782
pull
Entries 43
Mean −57.82
Std Dev 0
pull1D
Entries 43
Mean −0.01751
Std Dev 1.028

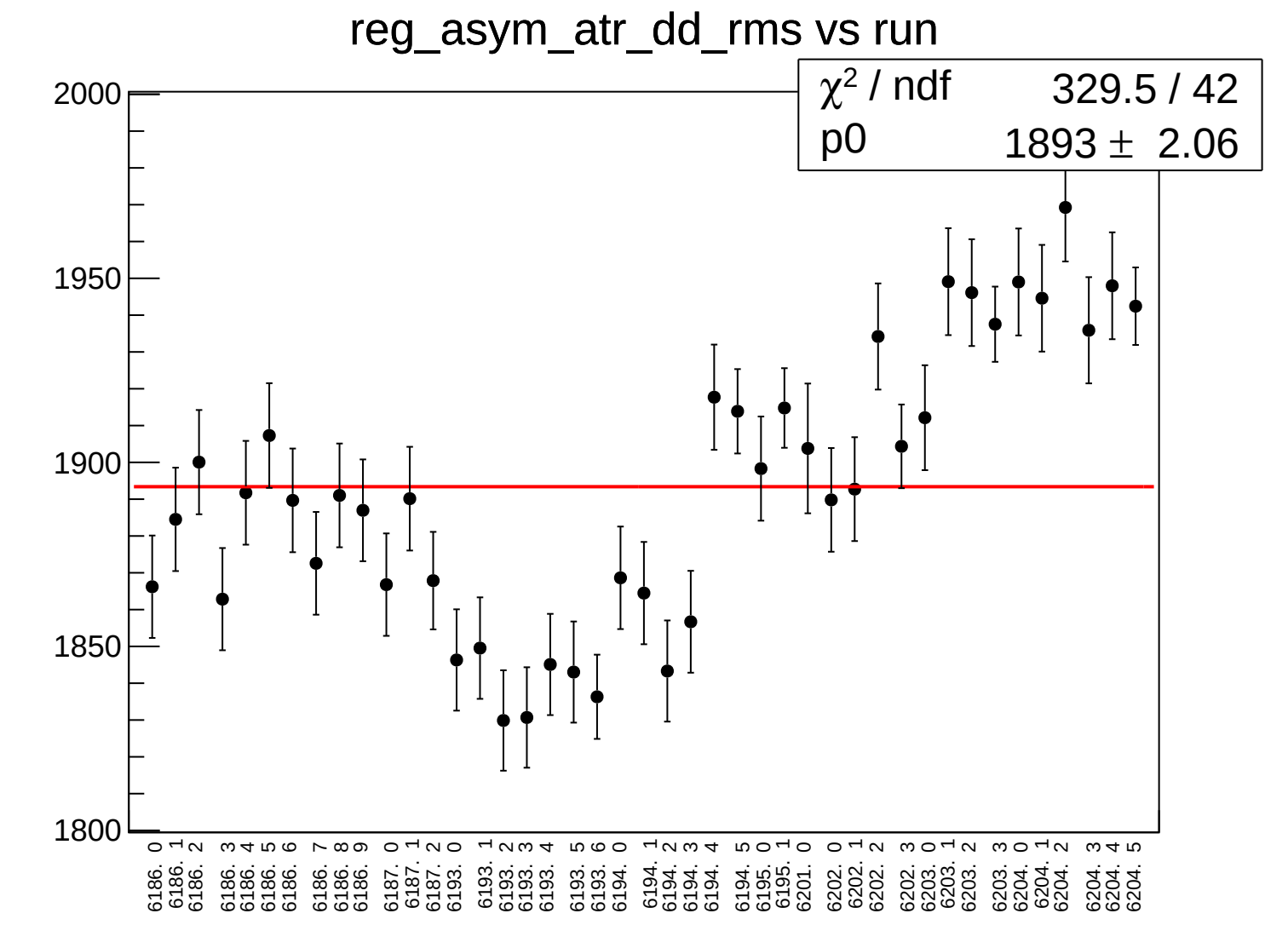

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.653e+04 / 42
p0 174.7 ± 0.1967
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

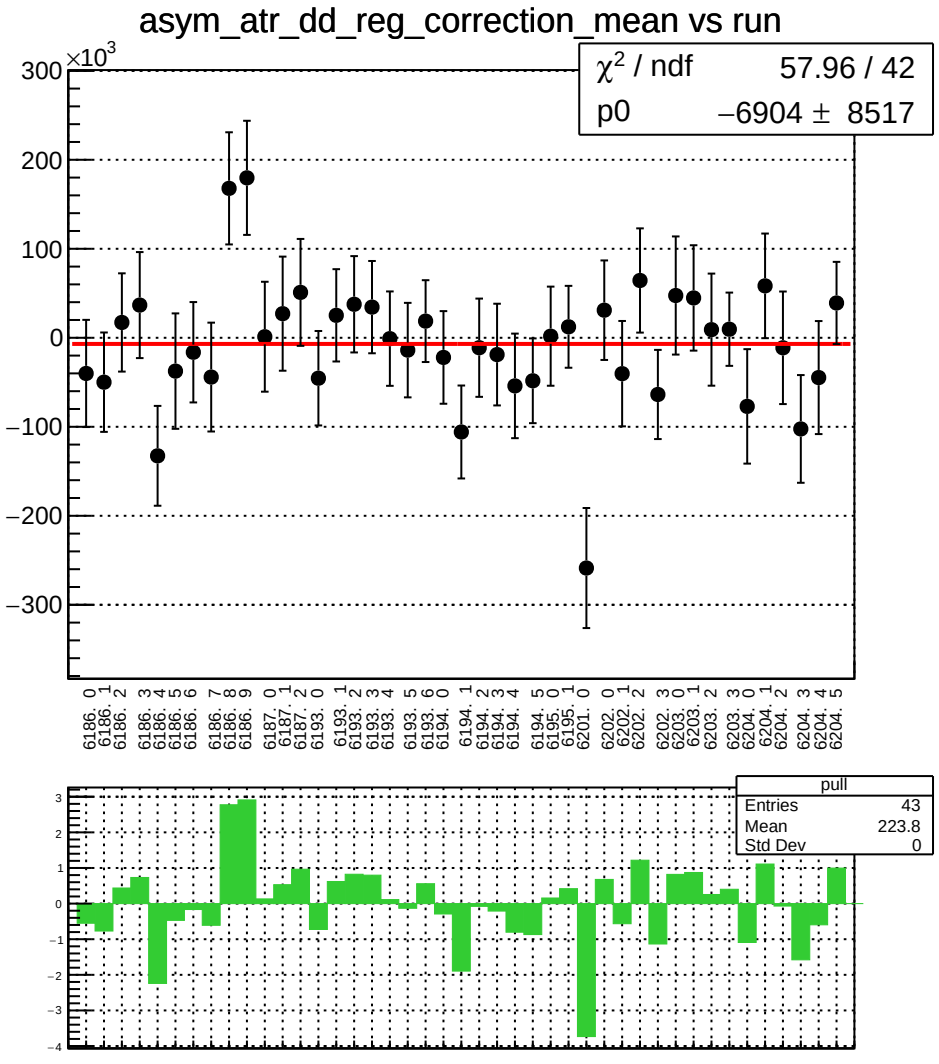

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 49.58 / 42
p0 5.32e−13 ± 4.274e−13
40
20
0
−20
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 21.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.0394
Std Dev 1.073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

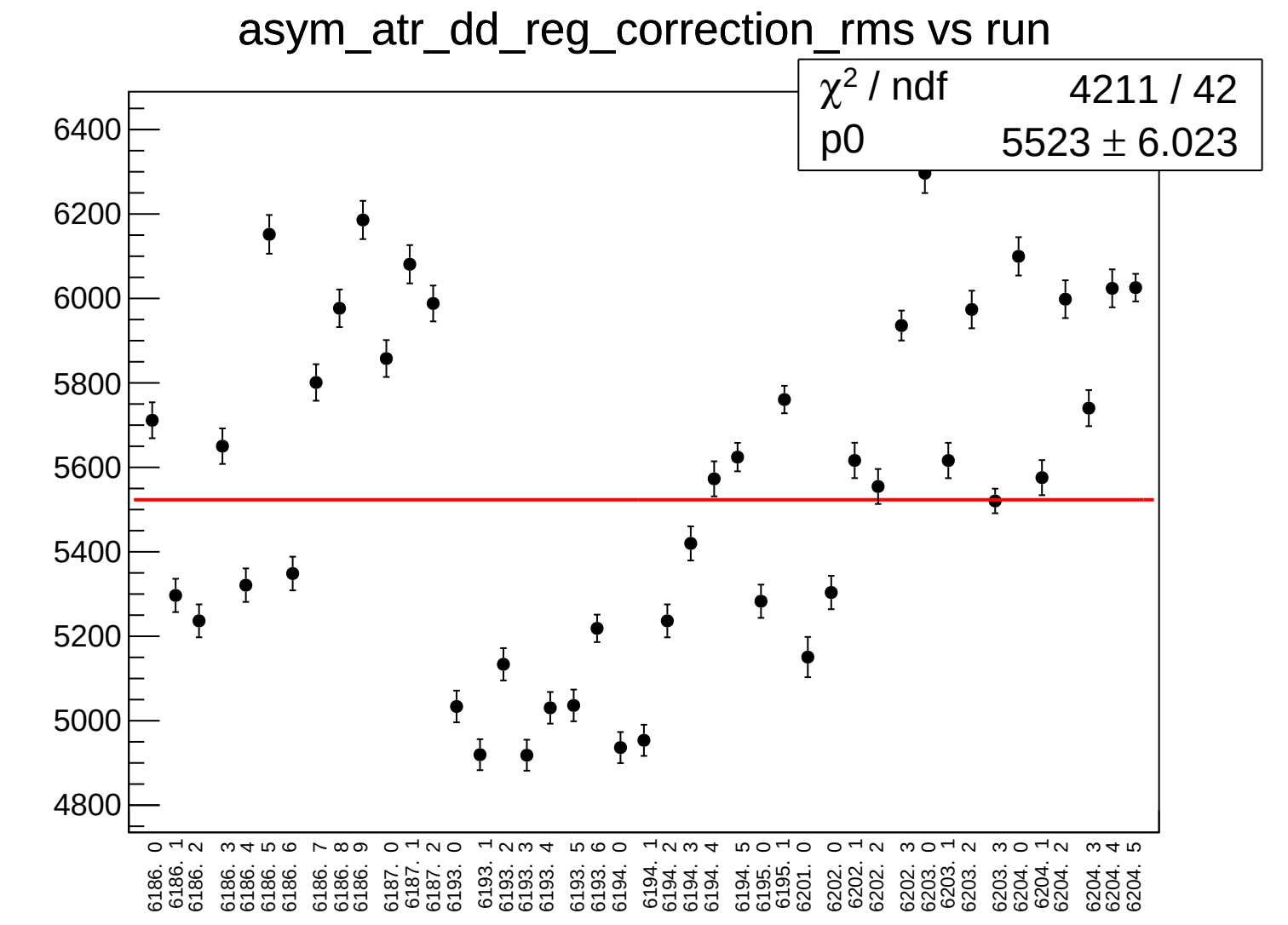

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.885e+05 / 42
p0 2.043e−10 ± 3.022e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

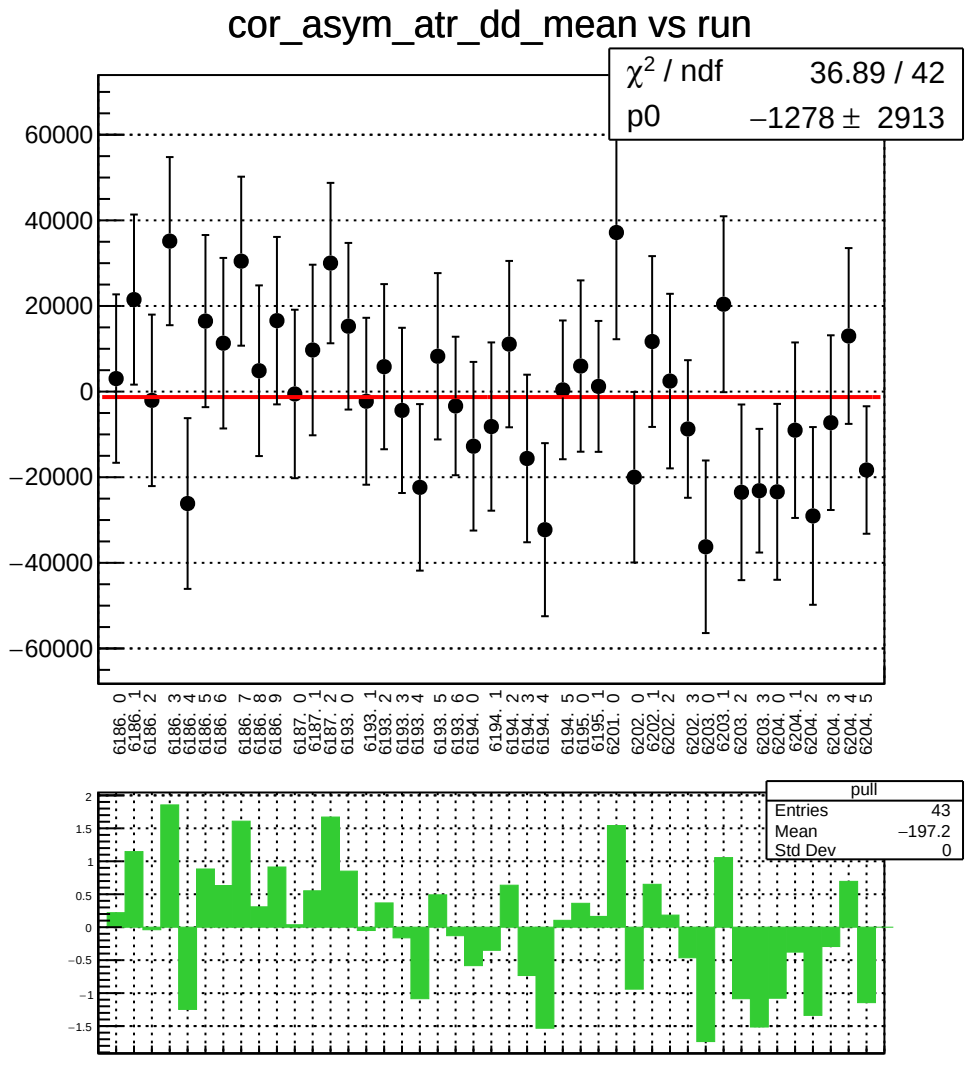

reg_asym_atr_dd_mean vs run
χ² / ndf 36.89 / 42
p0 −1279 ± 2913
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −197.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

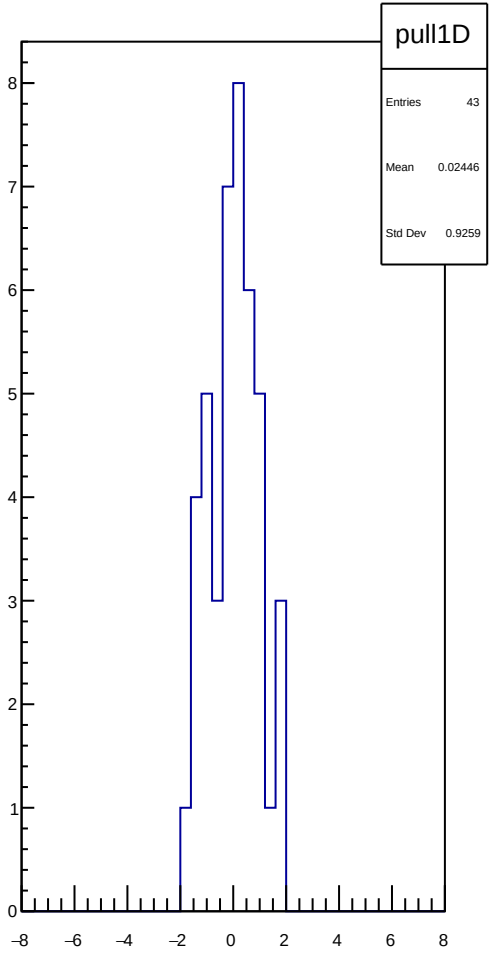

pull1D
Entries 43
Mean 0.02446
Std Dev 0.9259
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

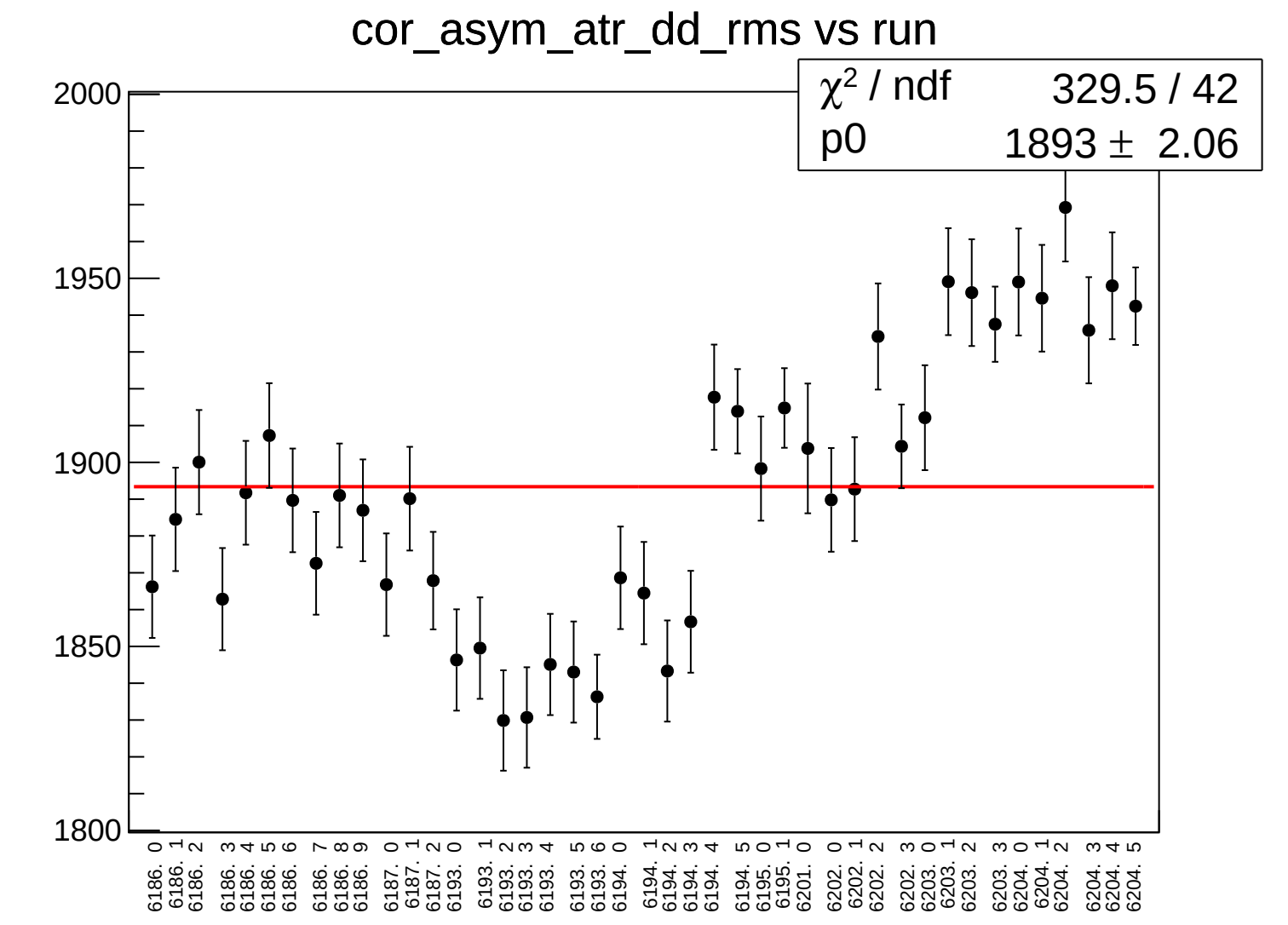

reg_asym_atr_dd_rms vs run
χ² / ndf 329.5 / 42
p0 1893 ± 2.06
2000
1950
1900
1850
1800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

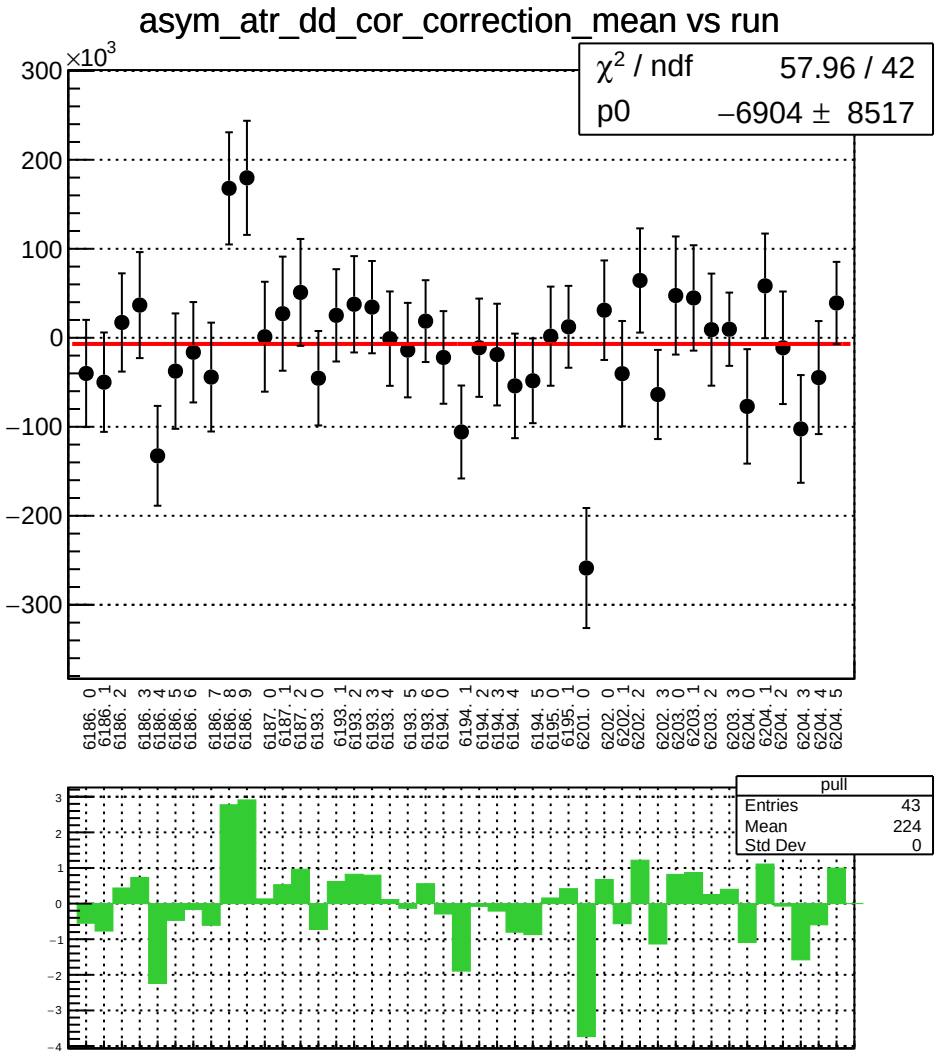

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 57.96 / 42
p0 −6904 ± 8517
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 223.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.005957
Std Dev 1.161
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

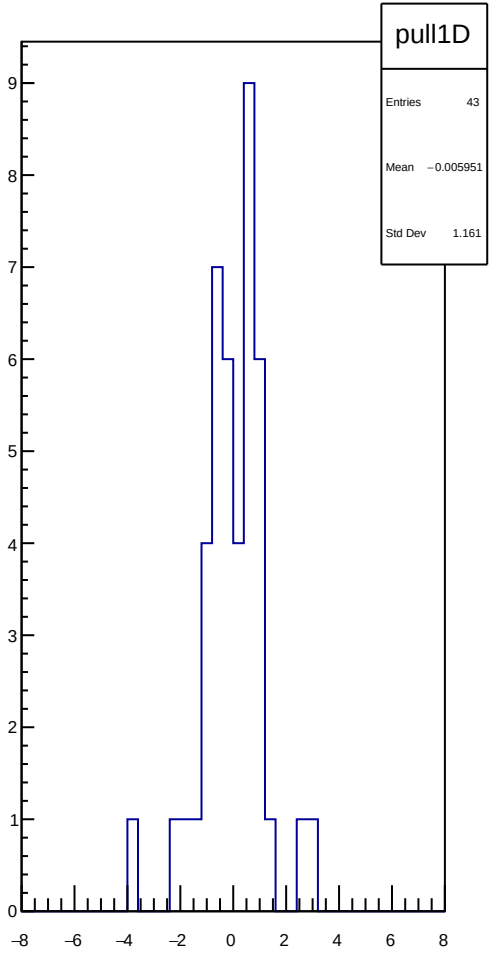

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 4211 / 42
p0 5523 ± 6.023
6400
6200
6000
5800
5600
5400
5200
5000
4800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

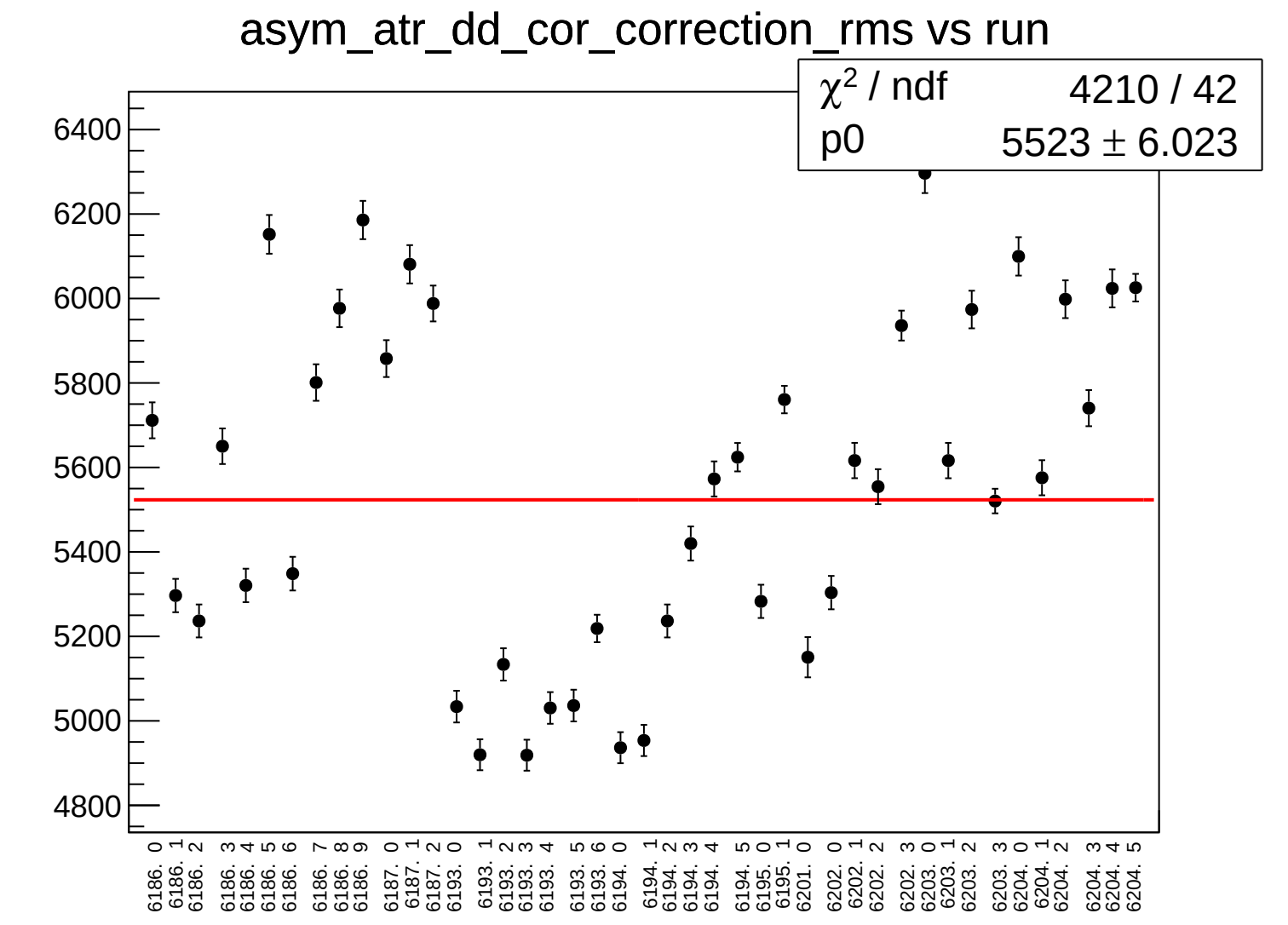

cor_asym_atr_dd_mean vs run
χ² / ndf 36.89 / 42
p0 −1278 ± 2913
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −197.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

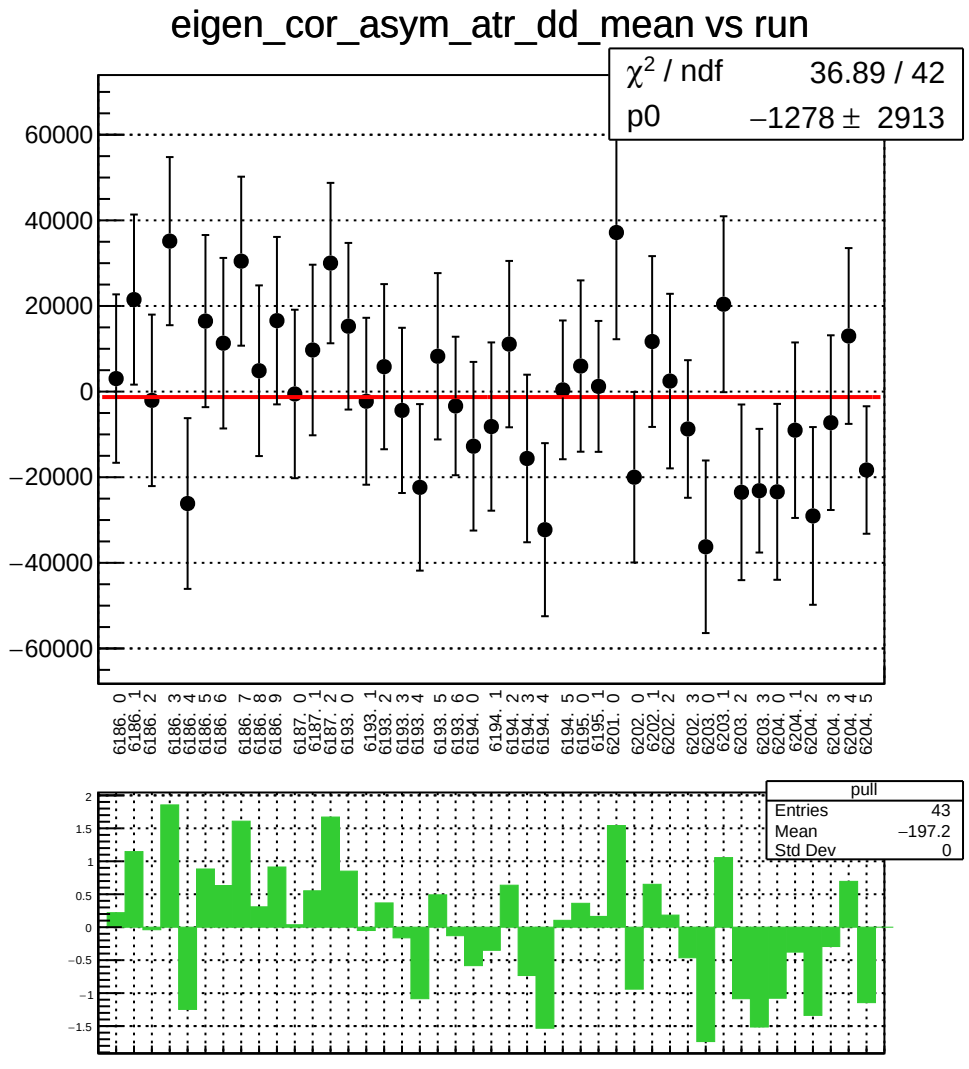

pull1D
Entries 43
Mean 0.02446
Std Dev 0.9259
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

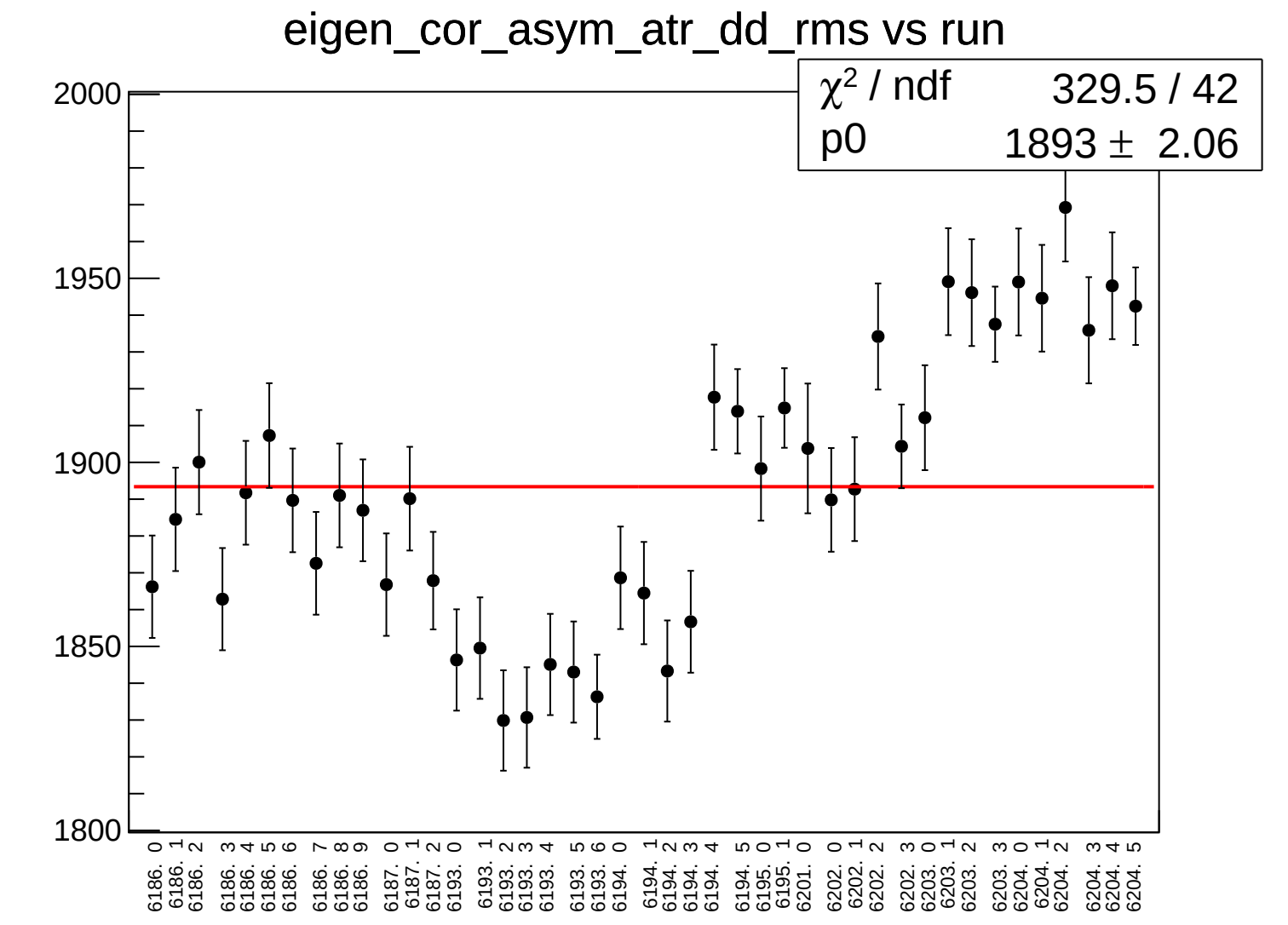

cor_asym_atr_dd_rms vs run
χ² / ndf 329.5 / 42
p0 1893 ± 2.06
2000
1950
1900
1850
1800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

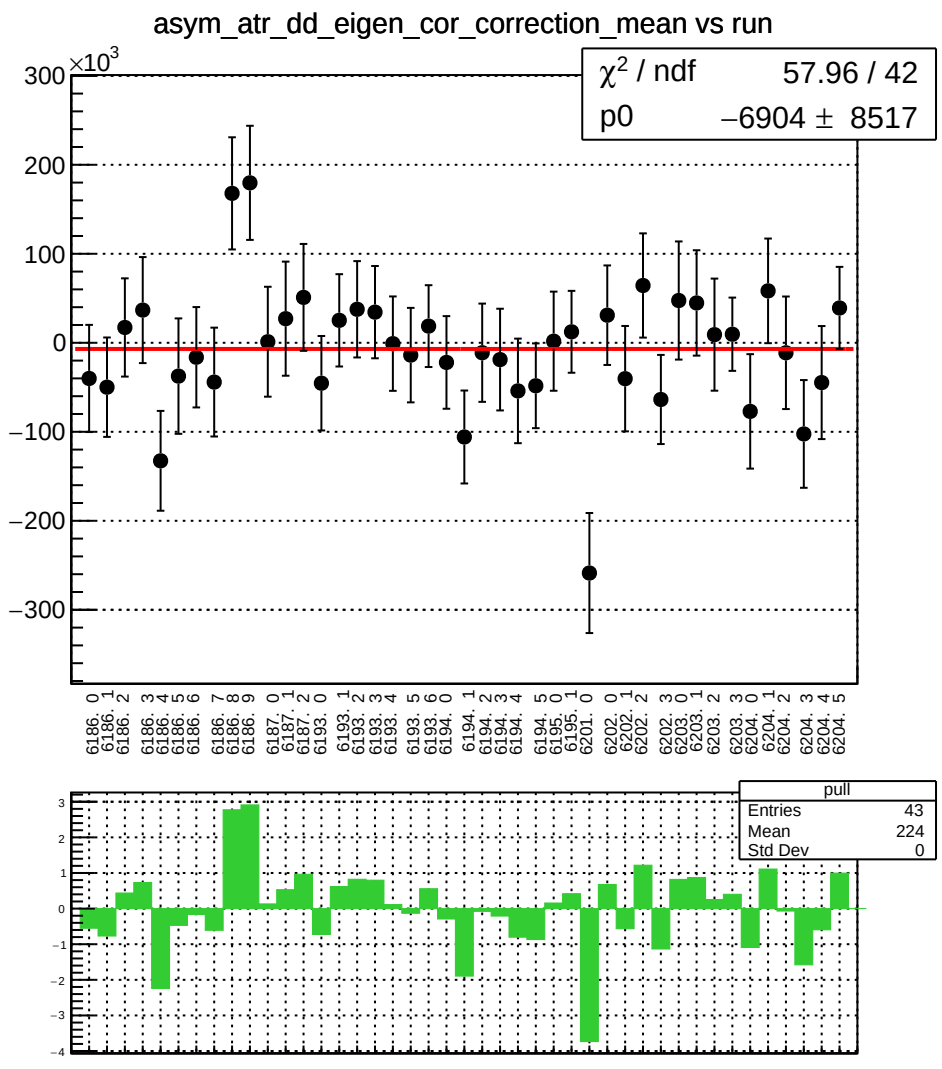

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 57.96 / 42
p0 −6904 ± 8517
×10³
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 224
Std Dev 0
3
2
1
0
−1
−2
−3
−4

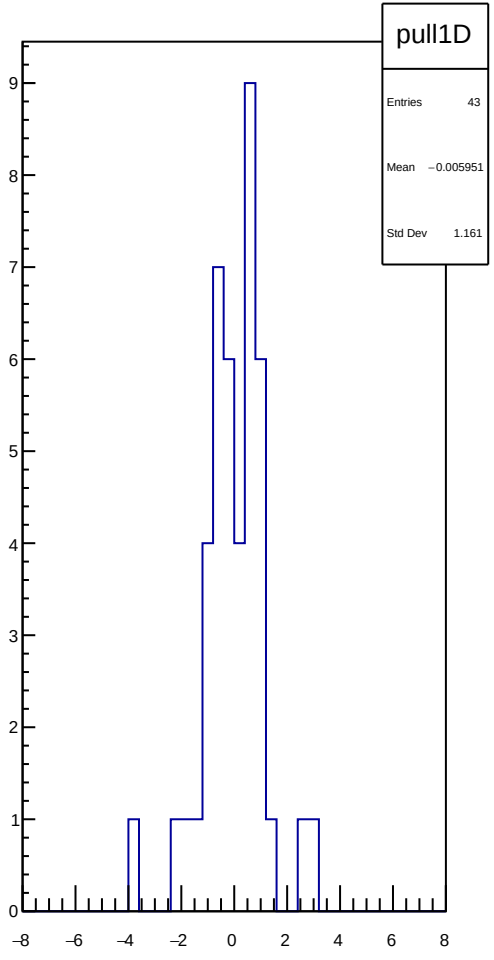

pull1D
Entries 43
Mean −0.005951
Std Dev 1.161
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

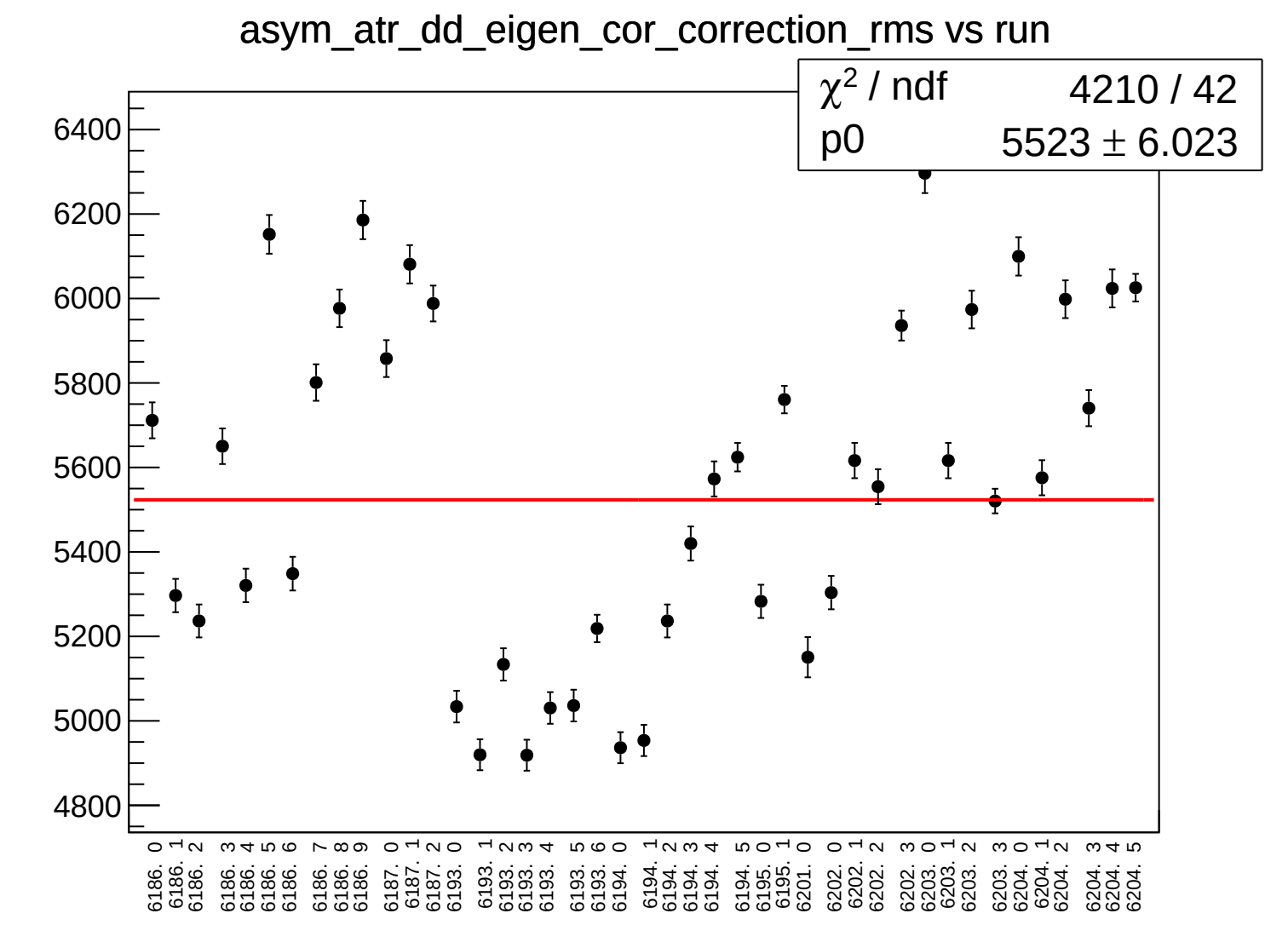

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 4210 / 42
p0 5523 ± 6.023
6400
6200
6000
5800
5600
5400
5200
5000
4800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

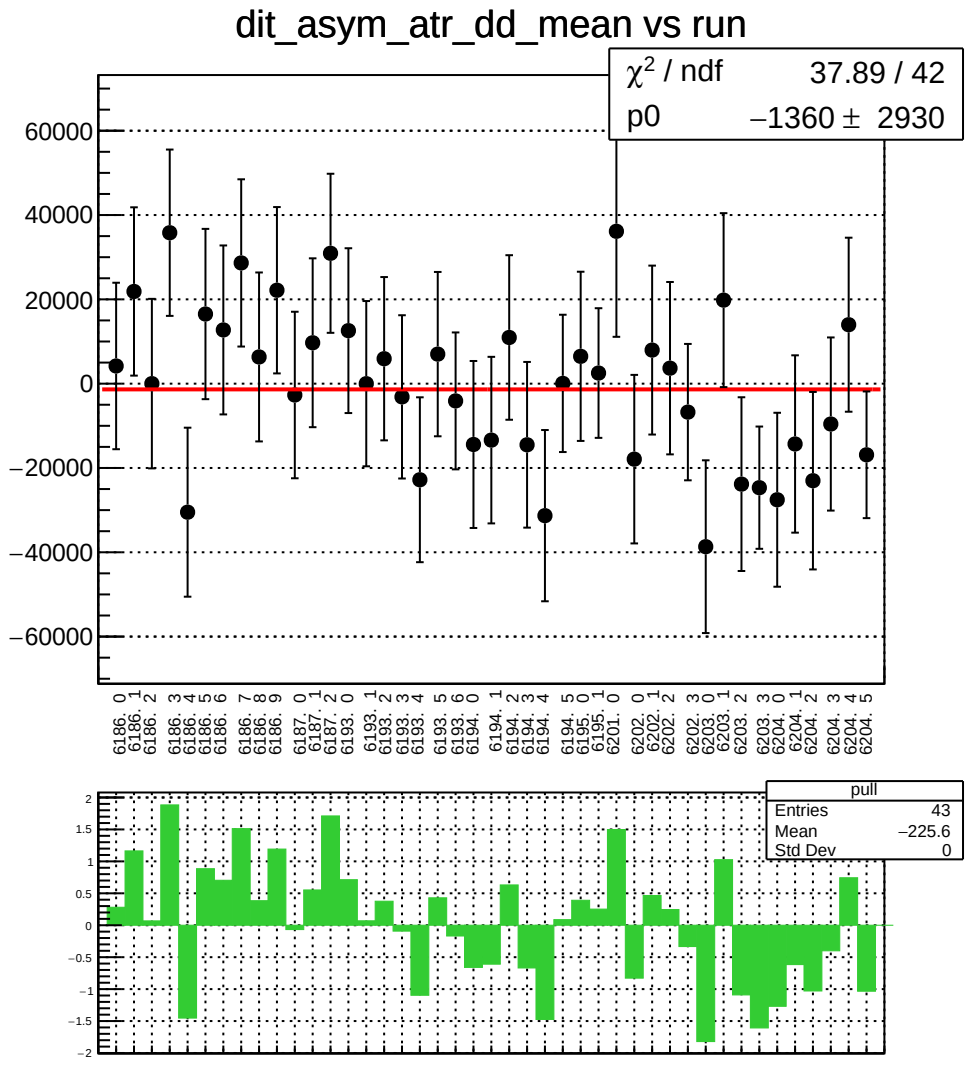

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 36.89 / 42
p0 −1278 ± 2913
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −197.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.02446
Std Dev 0.9259
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

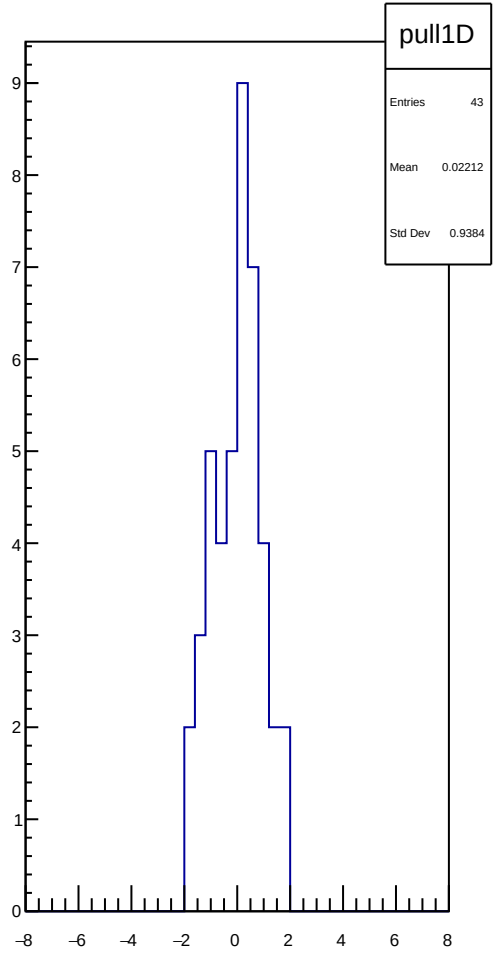

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 329.5 / 42
p0 1893 ± 2.06
2000
1950
1900
1850
1800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

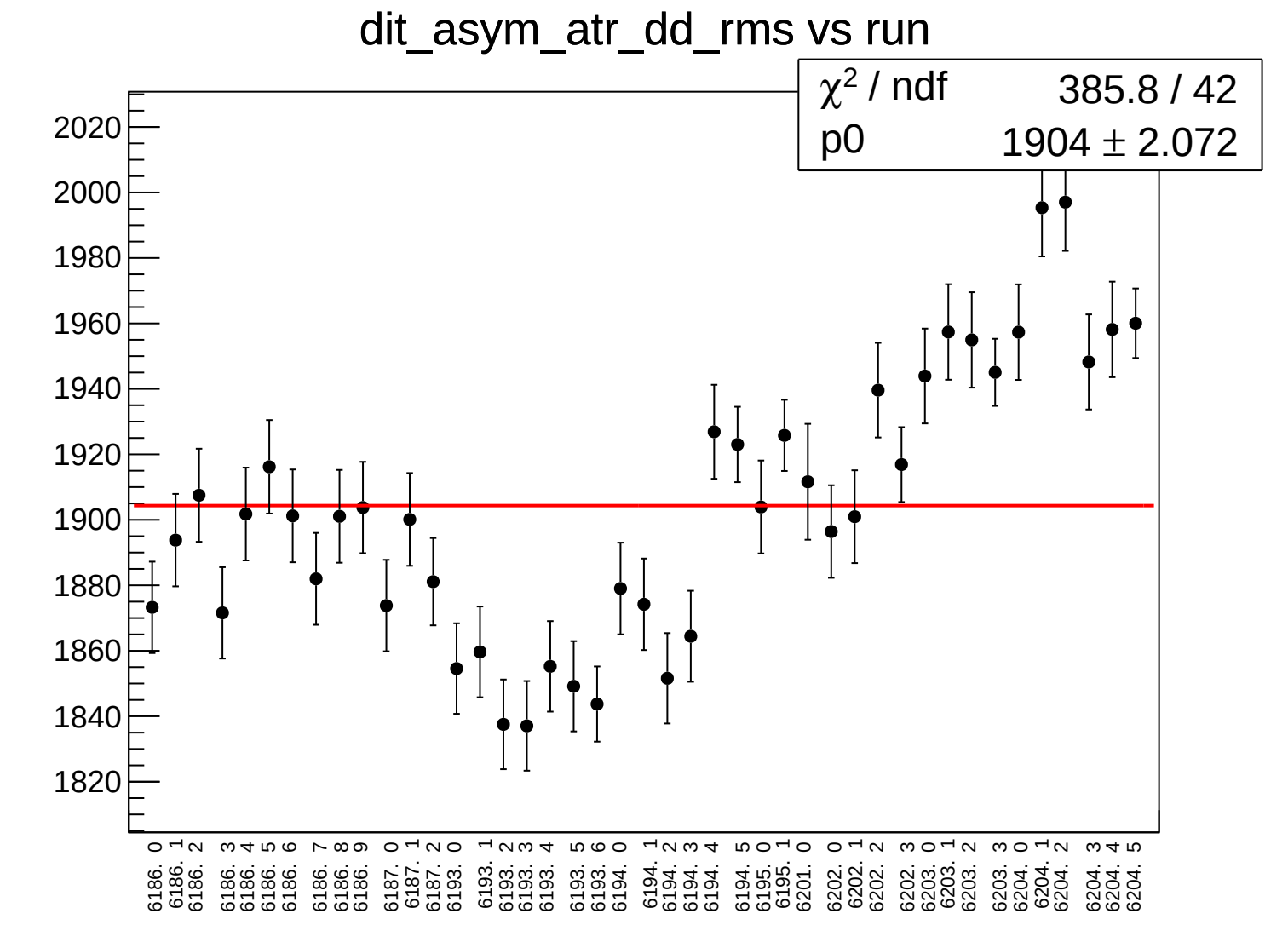

asym_atr_dd_eigen_cor_correction_mean vs run
χ² / ndf 57.96 / 42
p0 −6904 ± 8517
×10³
pull
Entries 43
Mean 224
Std Dev 0

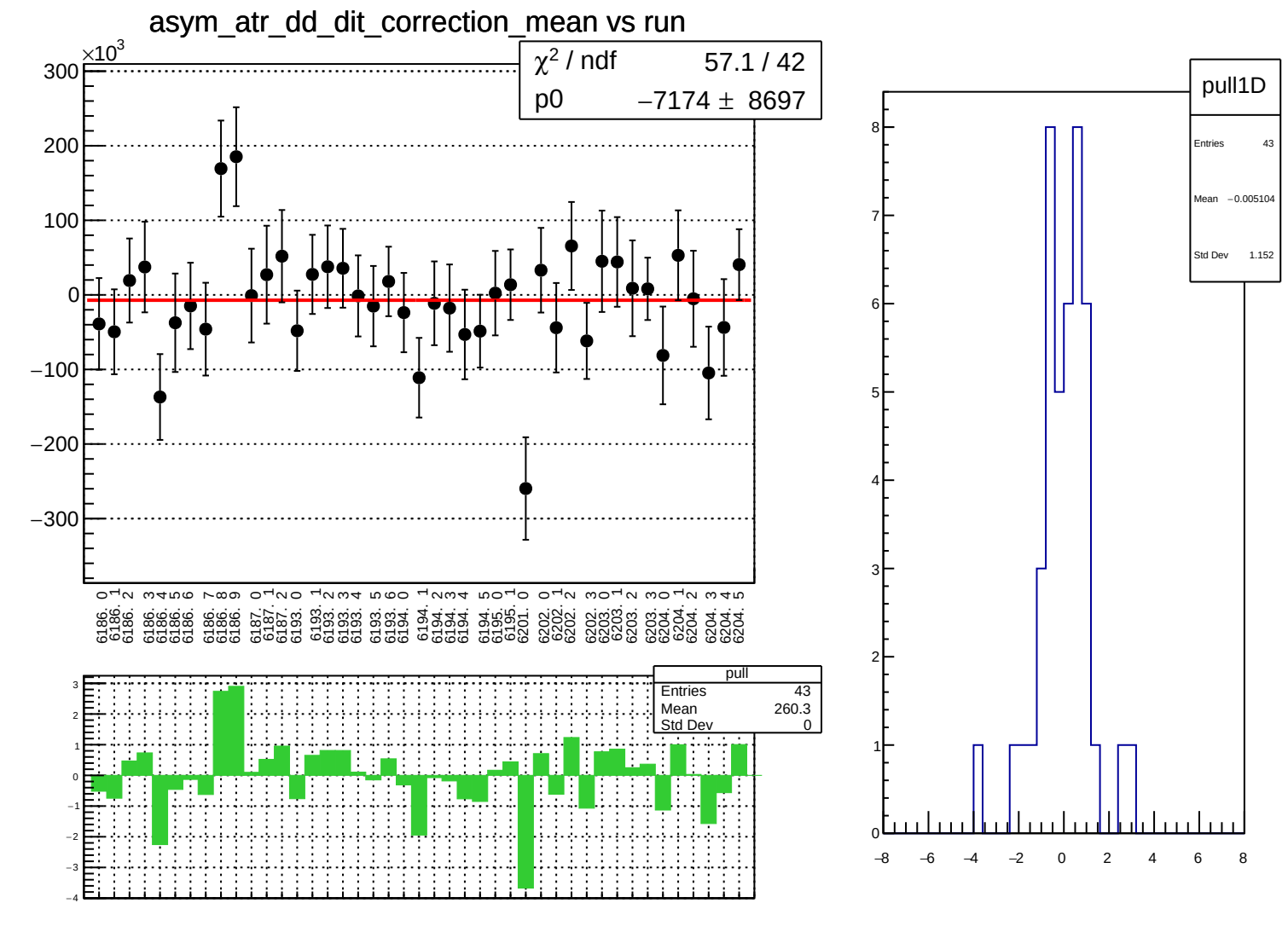

pull1D
Entries 43
Mean −0.005951
Std Dev 1.161

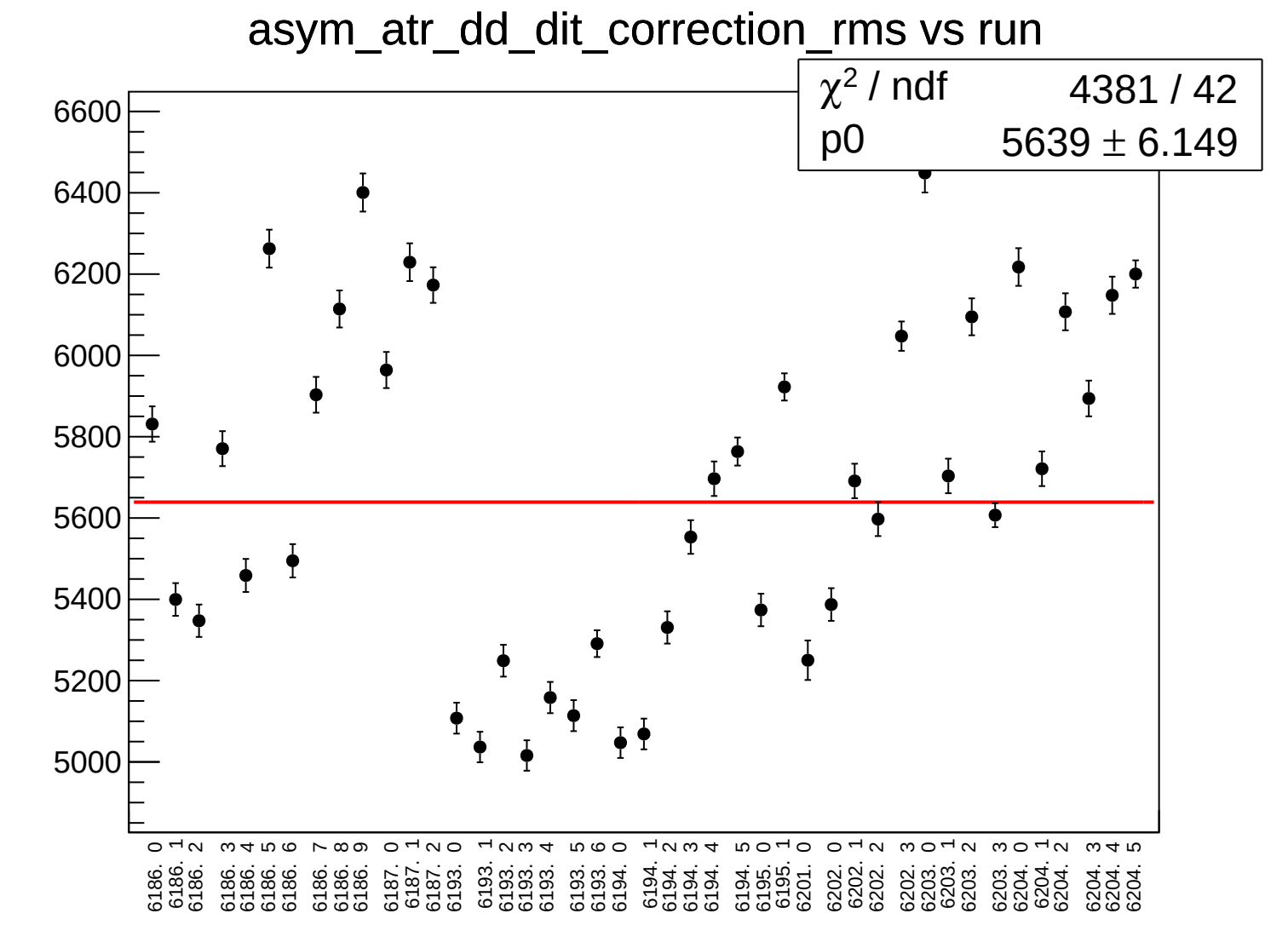

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 4210 / 42
p0 5523 ± 6.023
6400
6200
6000
5800
5600
5400
5200
5000
4800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

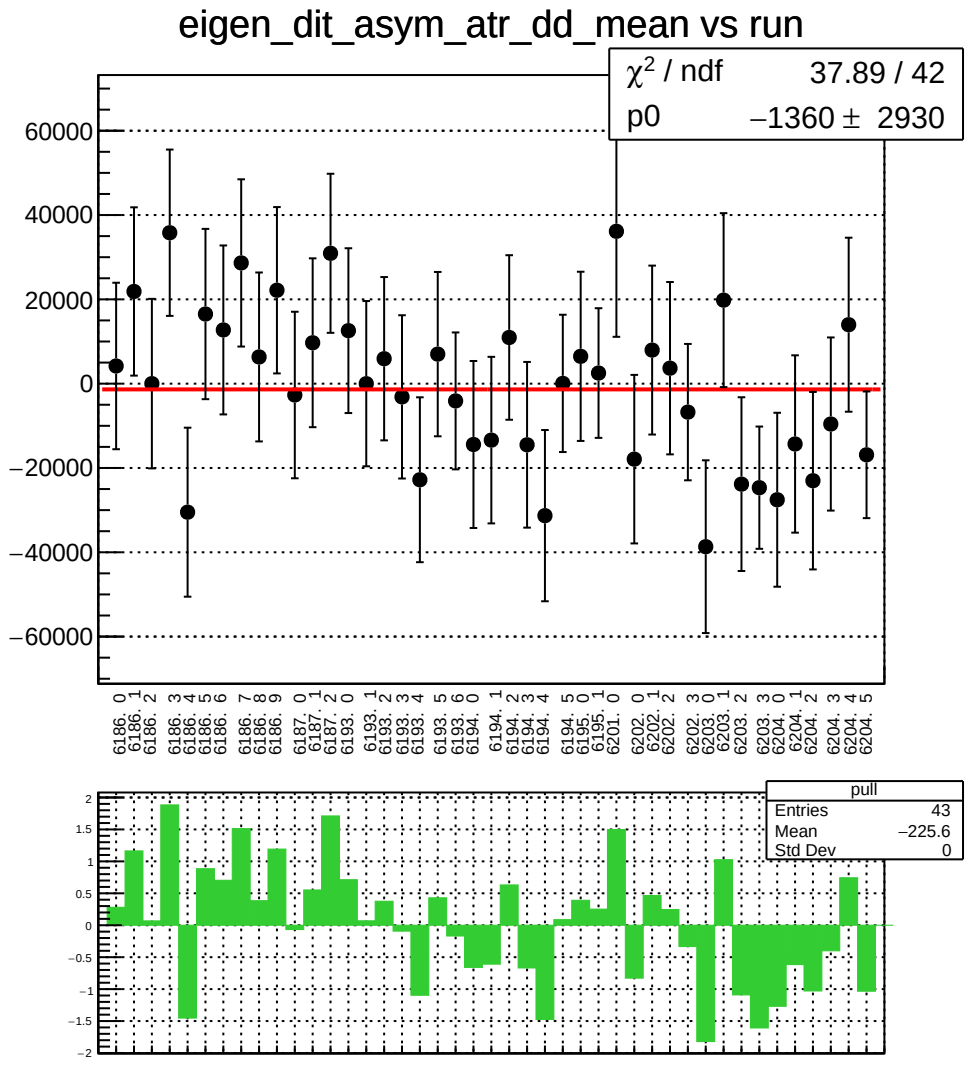

dit_asym_atr_dd_mean vs run
χ^2 / ndf 37.89 / 42
p0 −1360 ± 2930
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −225.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

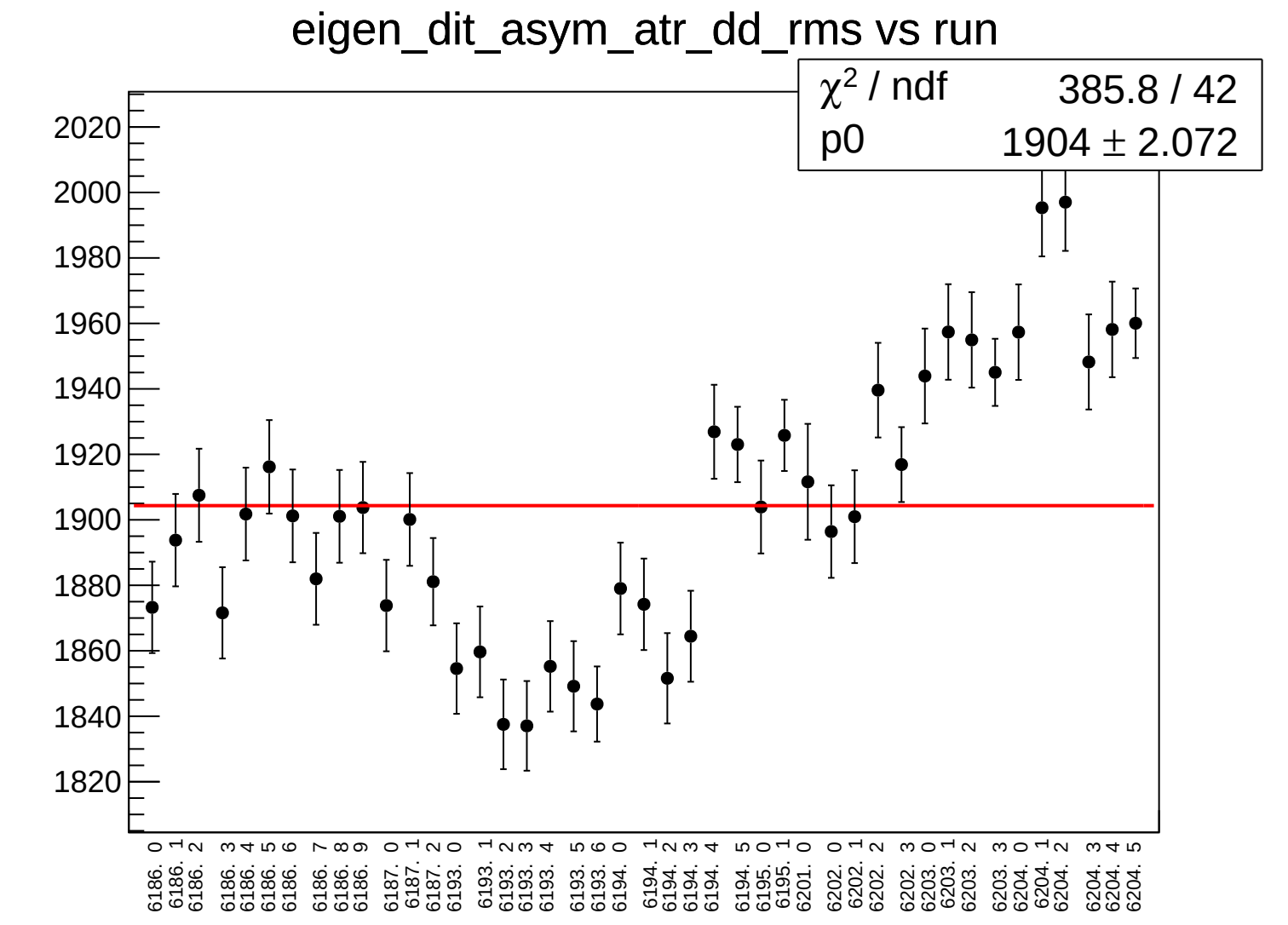

pull1D
Entries 43
Mean 0.02212
Std Dev 0.9384
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

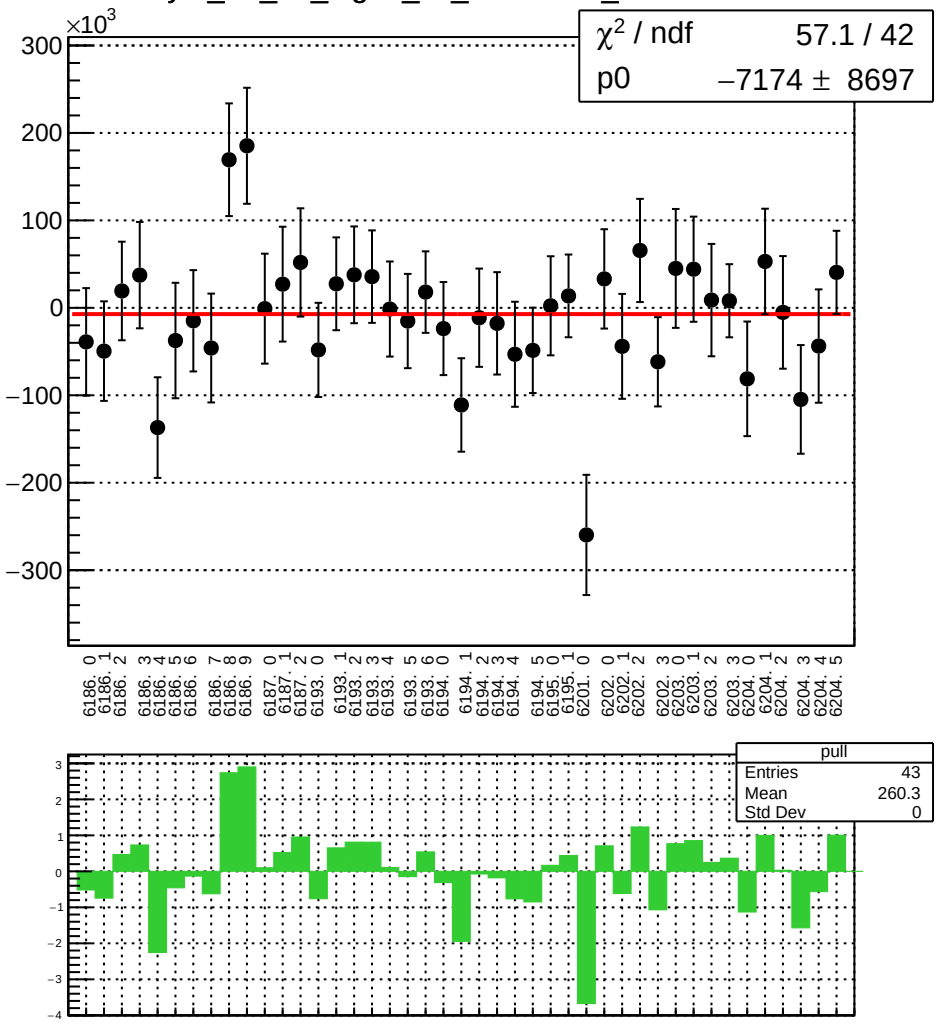

dit_asym_atr_dd_rms vs run
χ² / ndf 385.8 / 42
p0 1904 ± 2.072
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

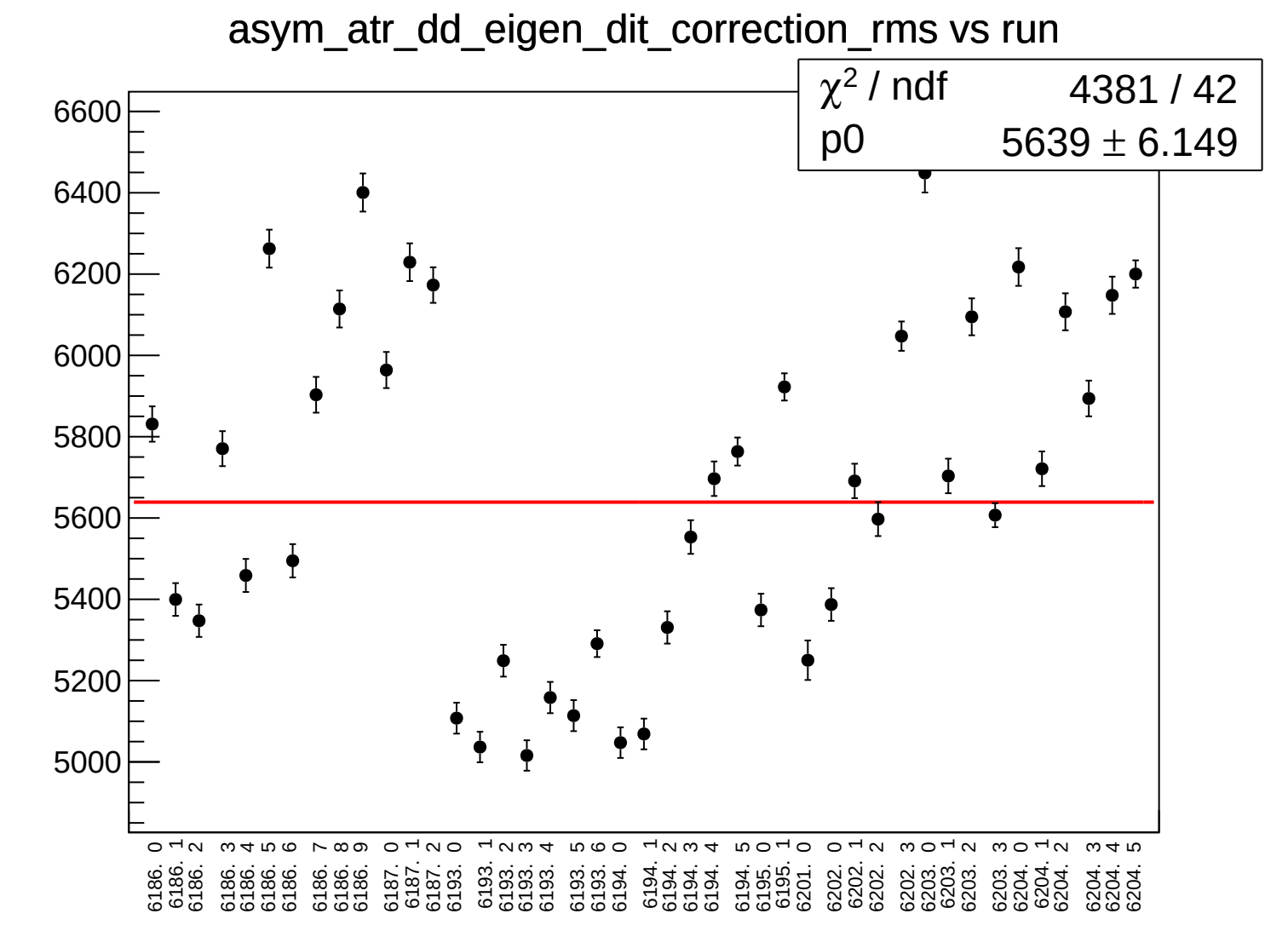

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 57.1 / 42
p0 −7174 ± 8697
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 260.3
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.005104
Std Dev 1.152
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

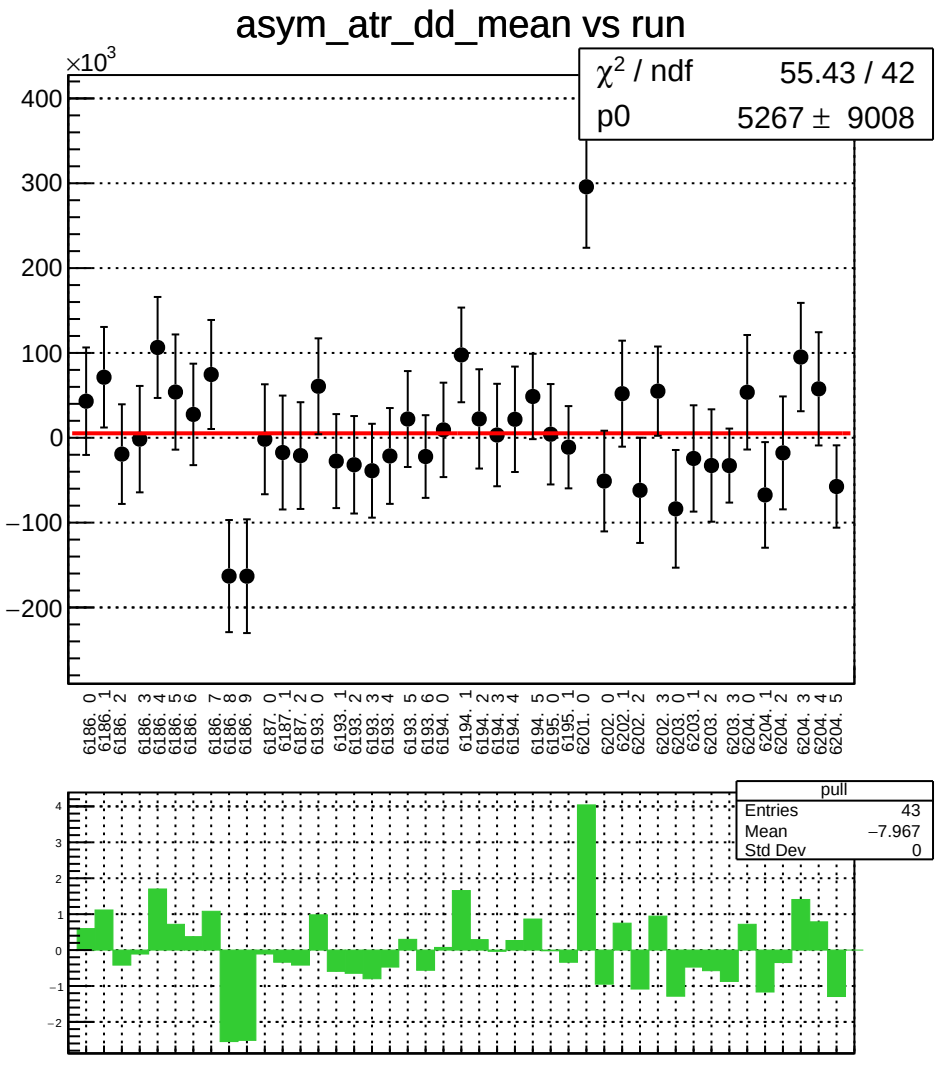

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 4381 / 42
p0 5639 ± 6.149
6600
6400
6200
6000
5800
5600
5400
5200
5000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

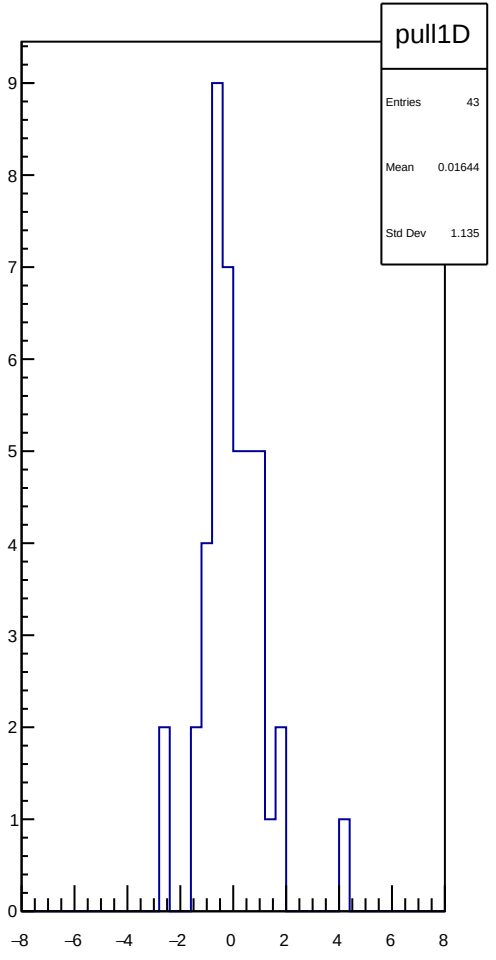

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 37.89 / 42
p0 −1360 ± 2930
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −225.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02212
Std Dev 0.9384
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

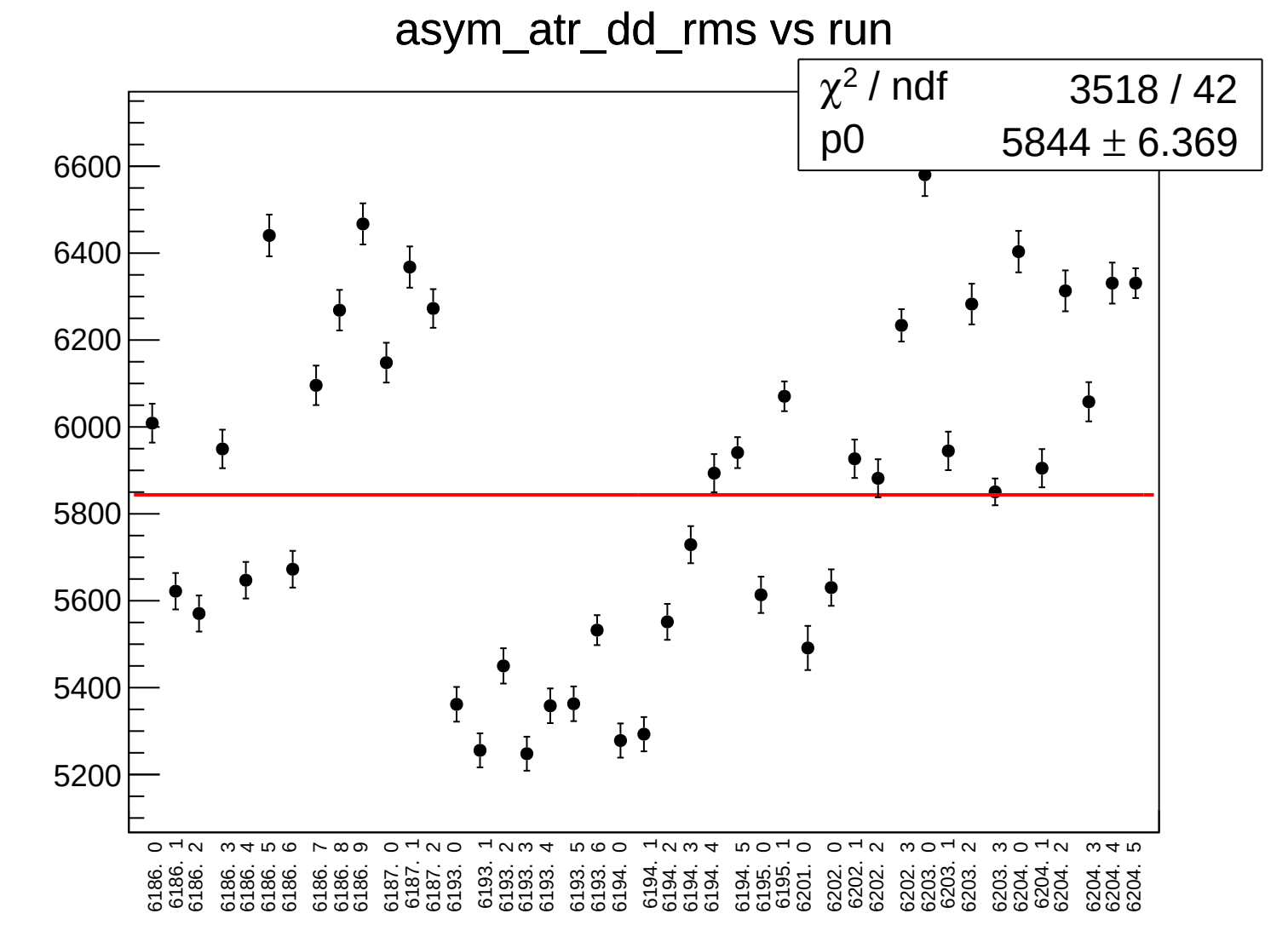

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 385.8 / 42
p0 1904 ± 2.072
2020
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

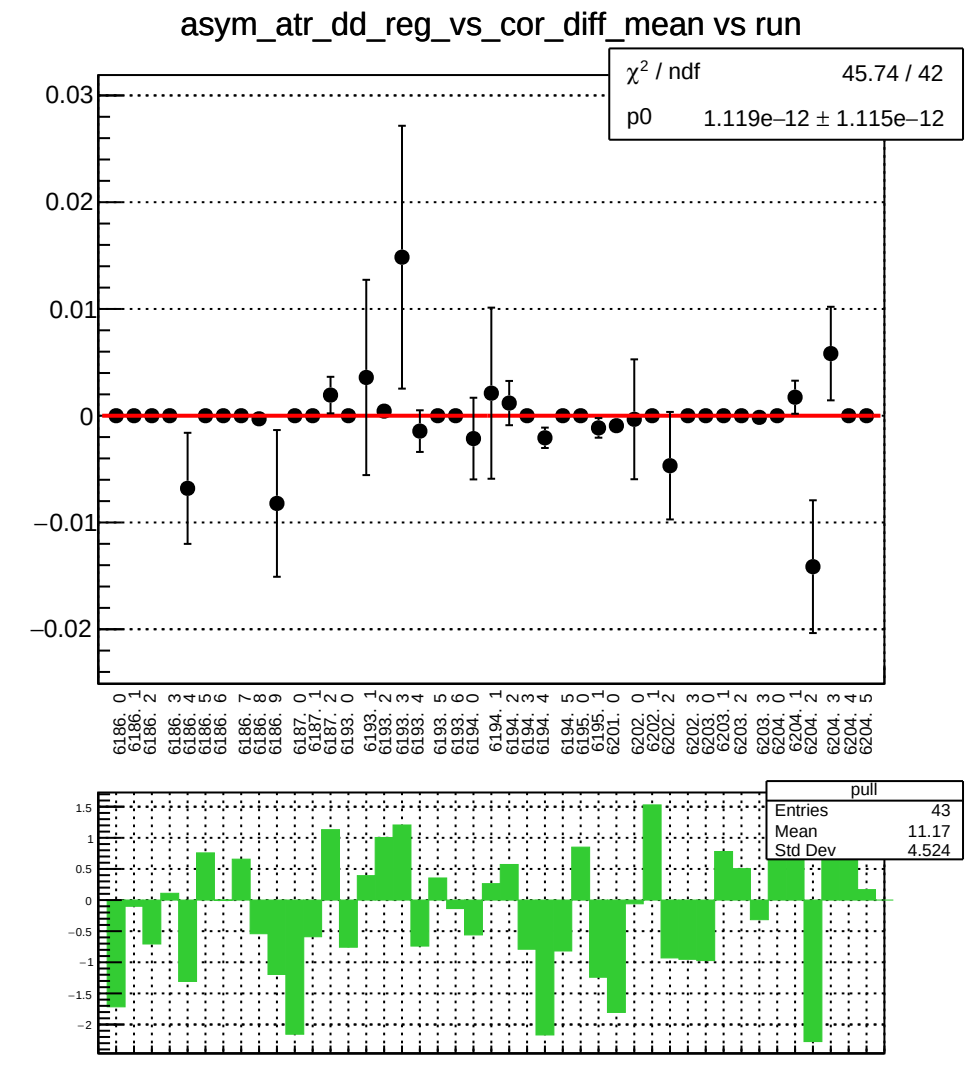

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 57.1 / 42
p0 −7174 ± 8697
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 260.3
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.005104
Std Dev 1.152
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

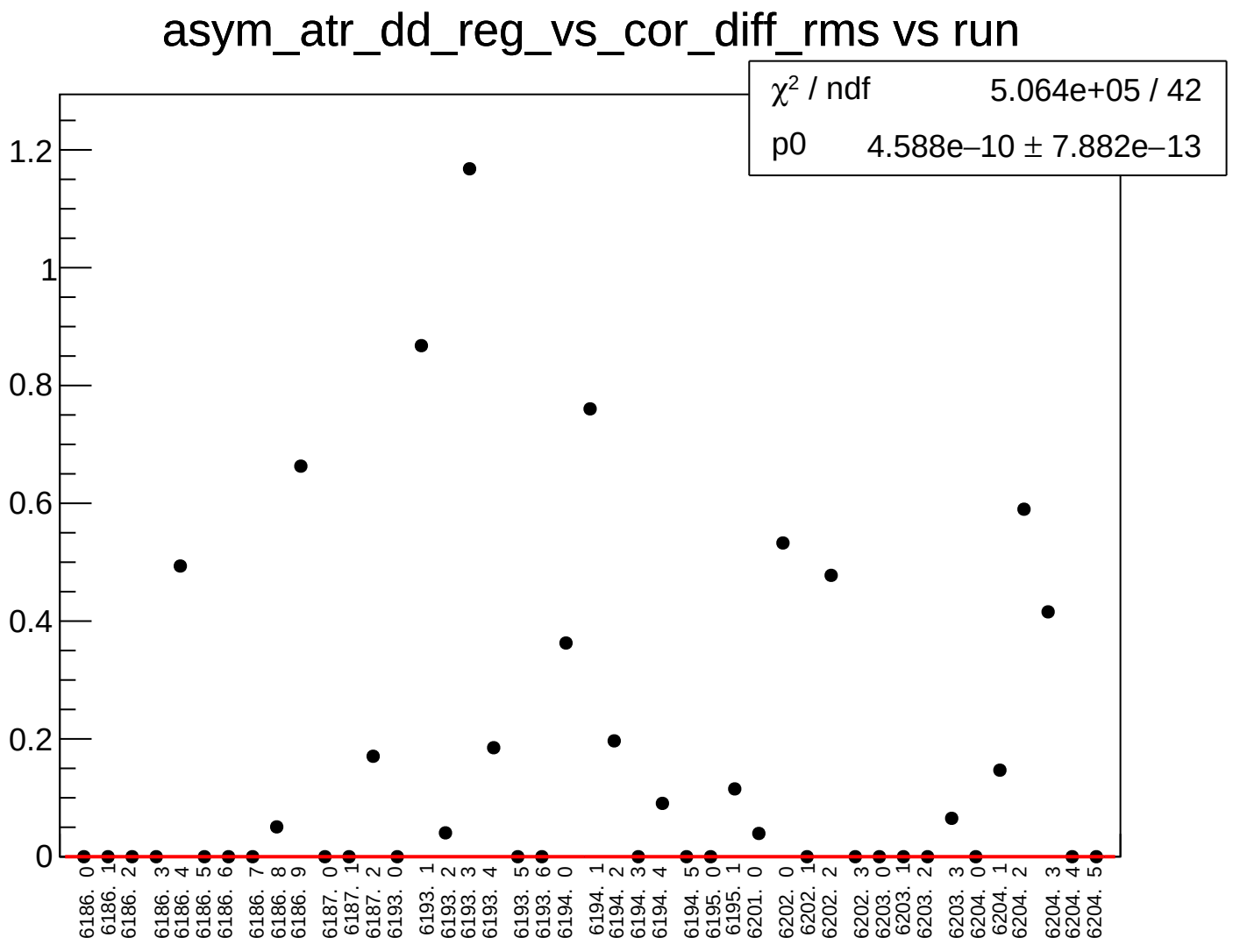

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 4381 / 42
p0 5639 ± 6.149
6600
6400
6200
6000
5800
5600
5400
5200
5000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

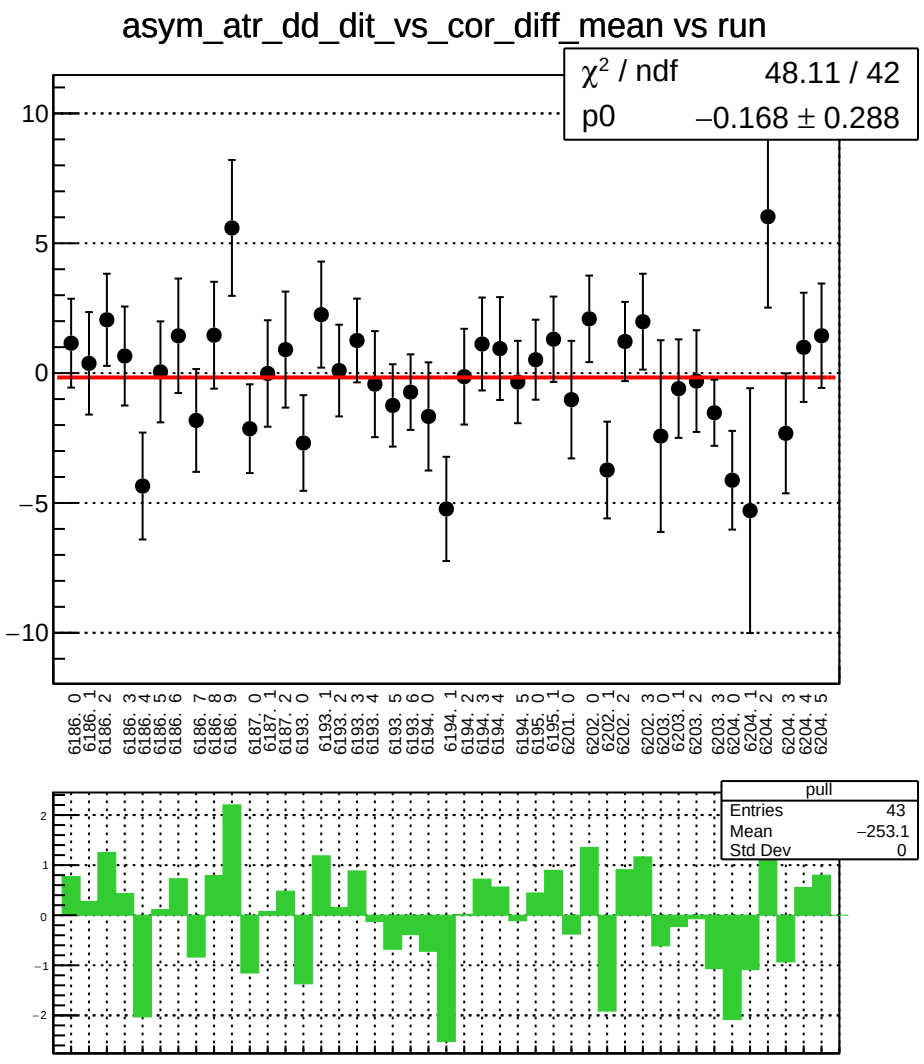

asym_atr_dd_mean vs run
×10^3
χ² / ndf 55.43 / 42
p0 5267 ± 9008
400
300
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −7.967
Std Dev 0
4
3
2
1
0
−1
−2

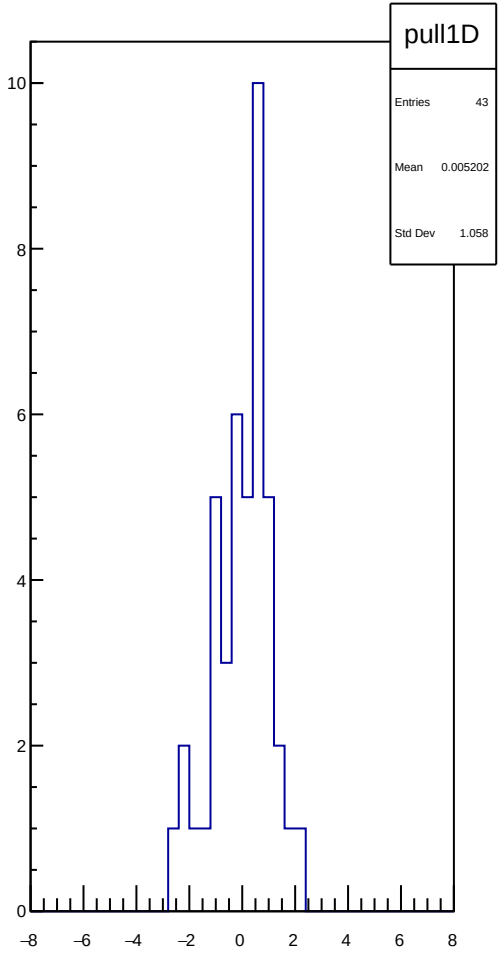

pull1D
Entries 43
Mean 0.01644
Std Dev 1.135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

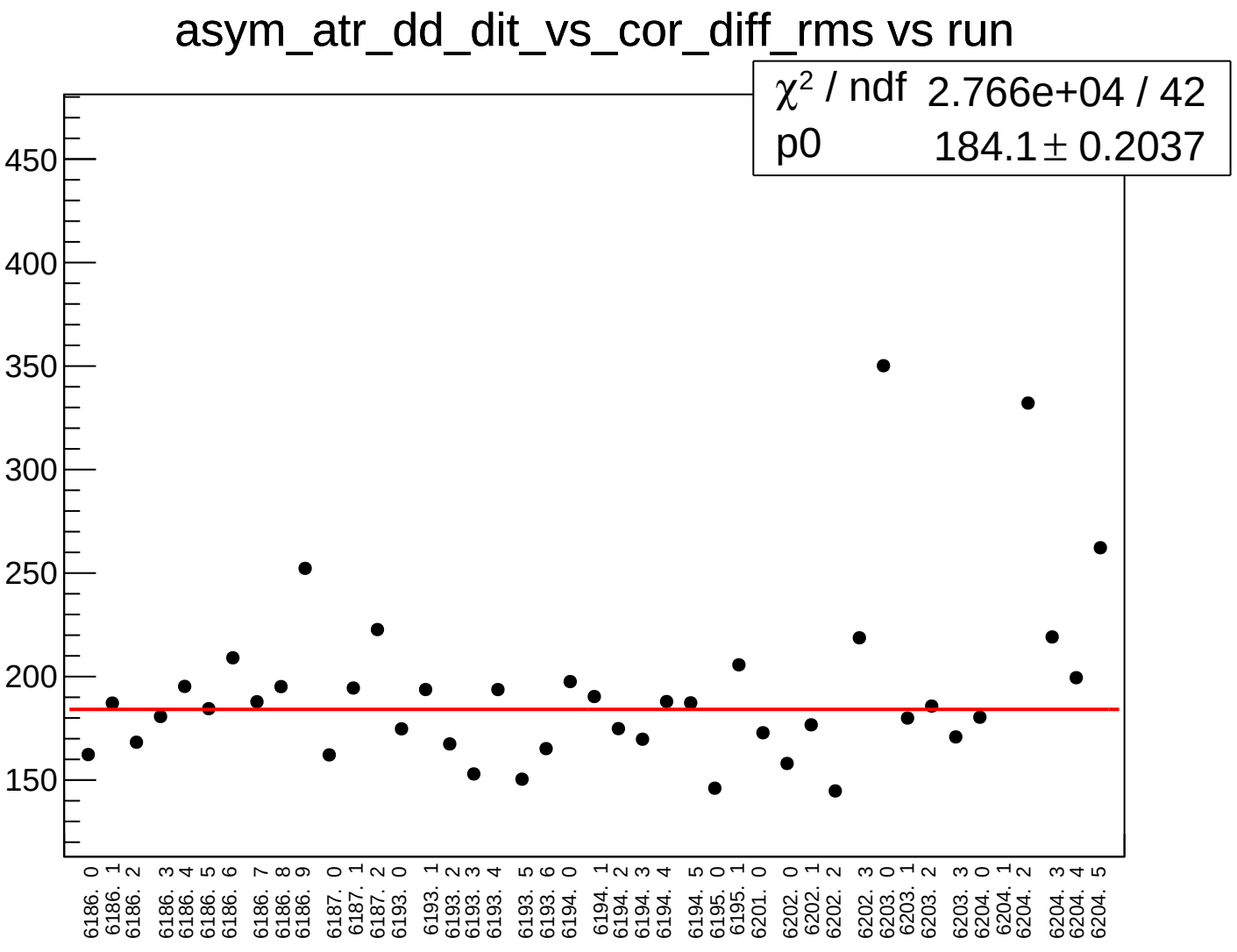

asym_atr_dd_rms vs run
χ² / ndf 3518 / 42
p0 5844 ± 6.369
6600
6400
6200
6000
5800
5600
5400
5200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

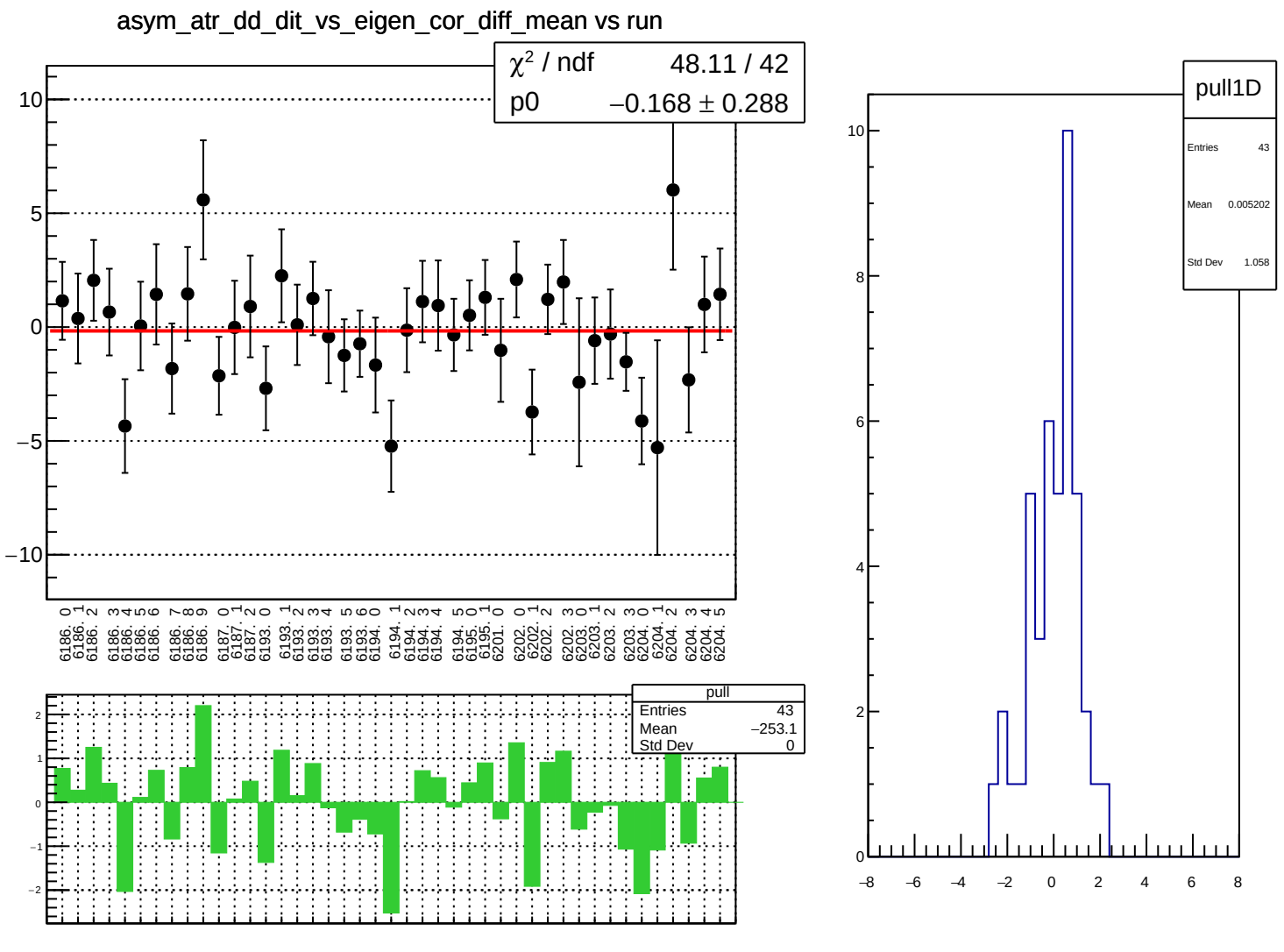

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 45.74 / 42
p0 1.119e−12 ± 1.115e−12
0.03
0.02
0.01
0
−0.01
−0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 11.17
Std Dev 4.524
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1987
Std Dev 1.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

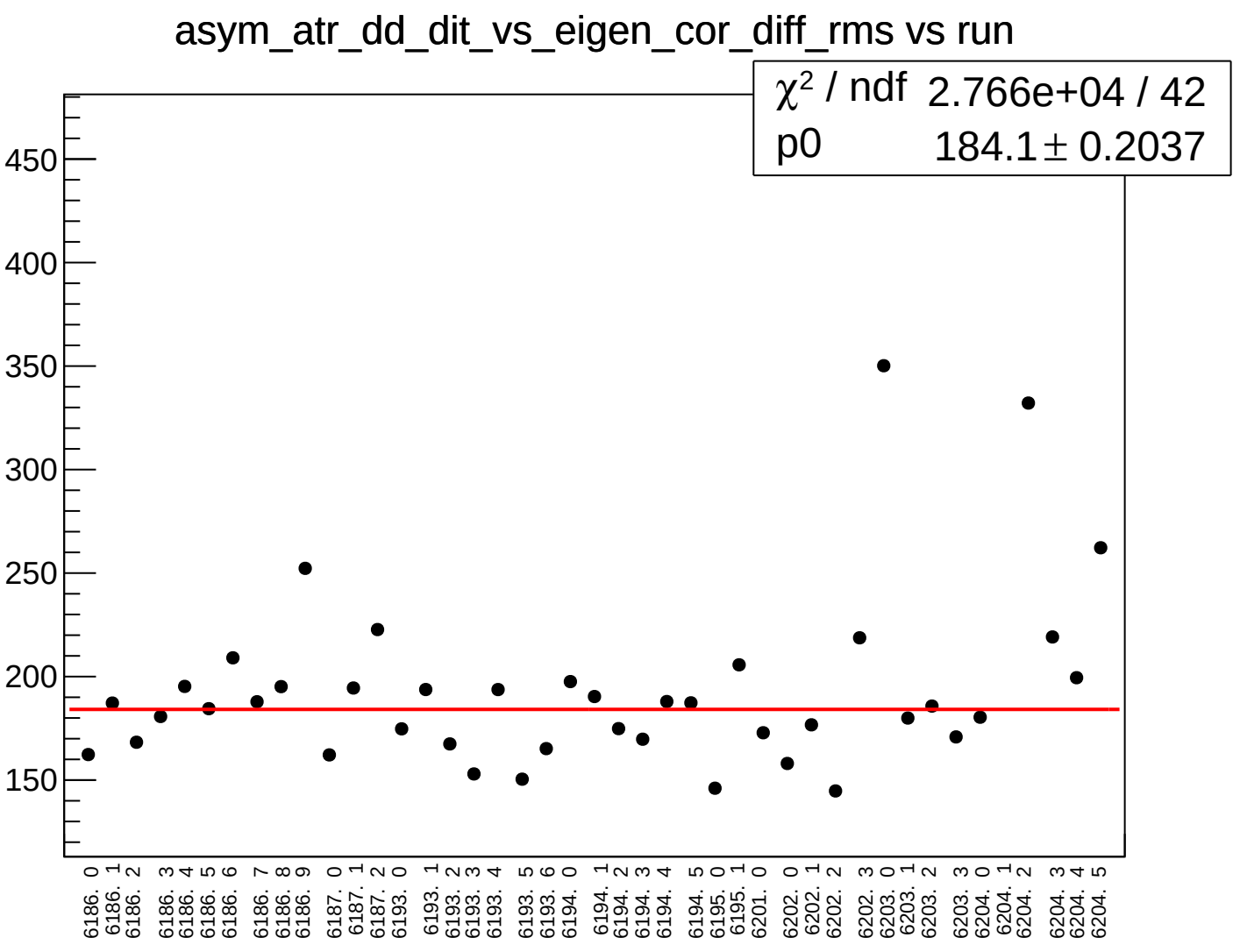

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.064e+05 / 42
p0 4.588e−10 ± 7.882e−13
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

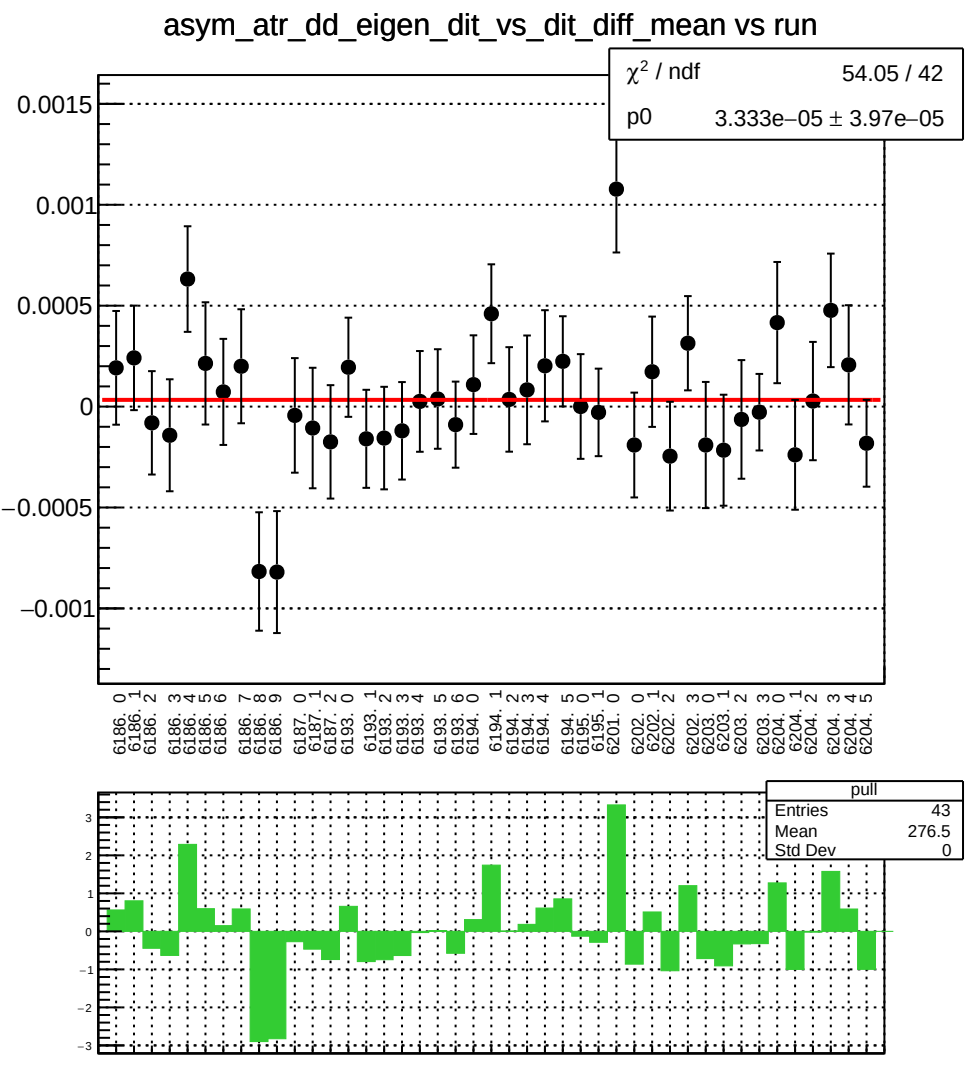

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 48.11 / 42
p0 −0.168 ± 0.288
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −253.1
Std Dev 0
2
1
0
−1
−2

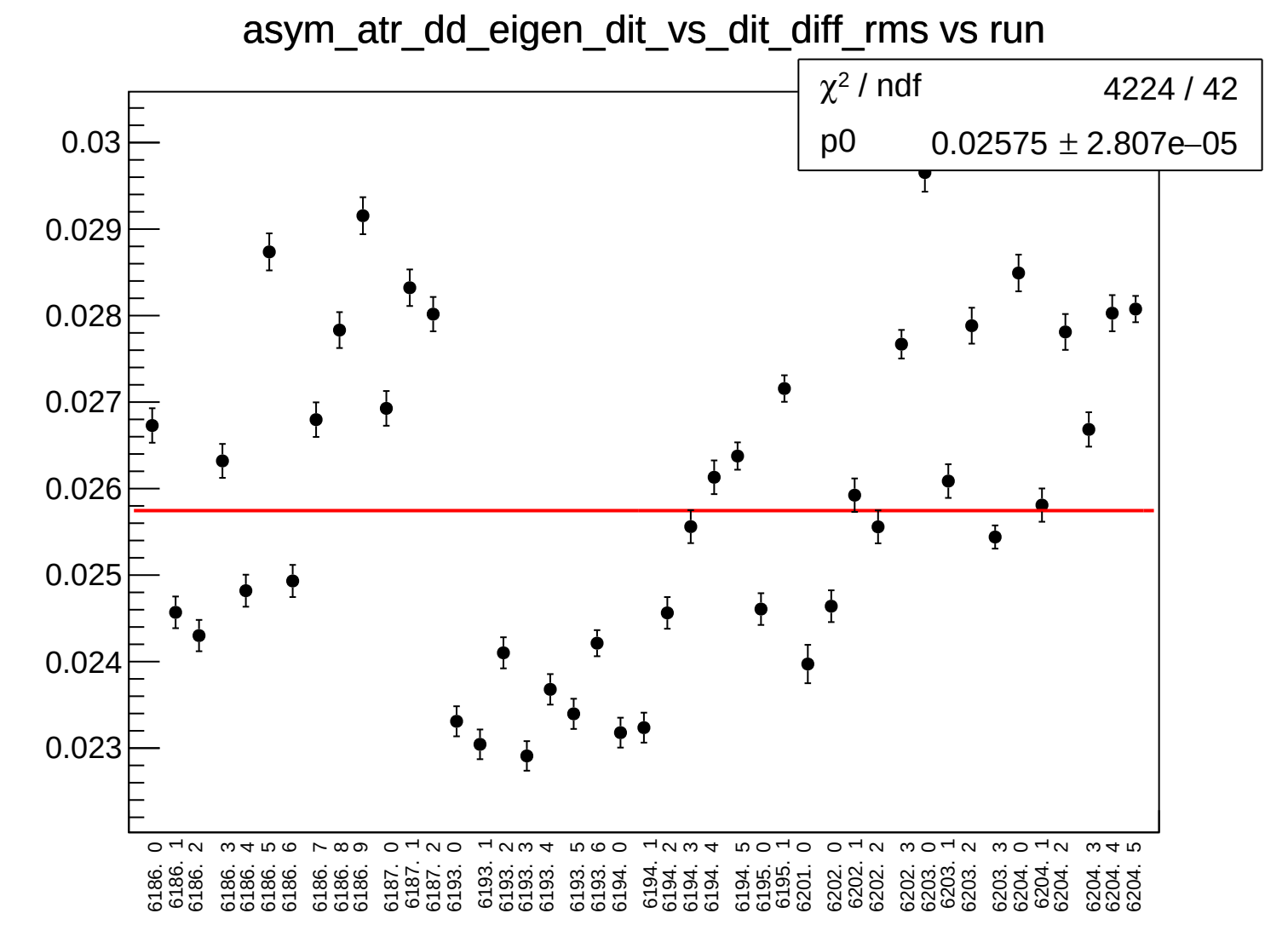

pull1D
Entries 43
Mean 0.005202
Std Dev 1.058
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

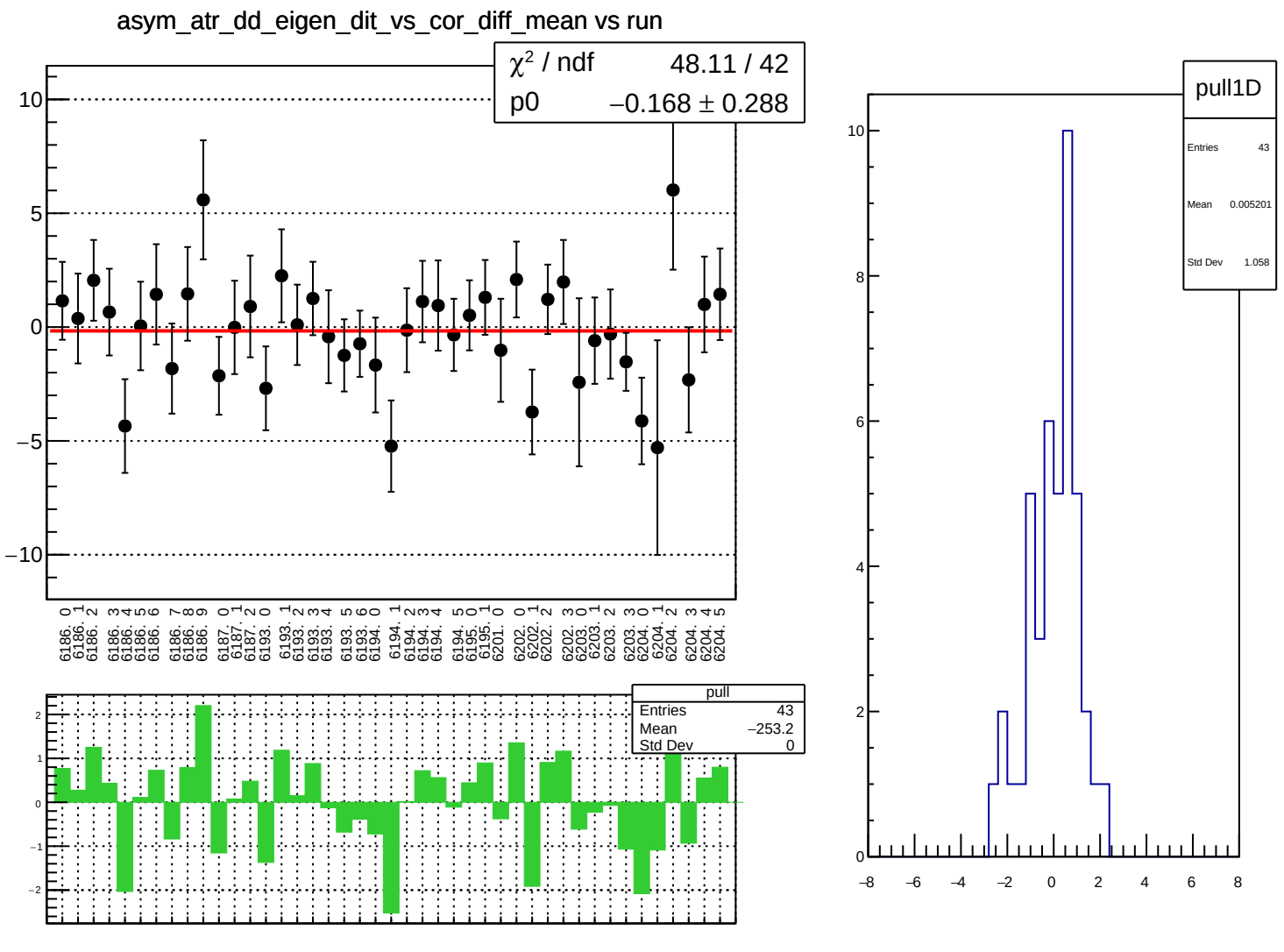

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.766e+04 / 42
p0 184.1 ± 0.2037
450
400
350
300
250
200
150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

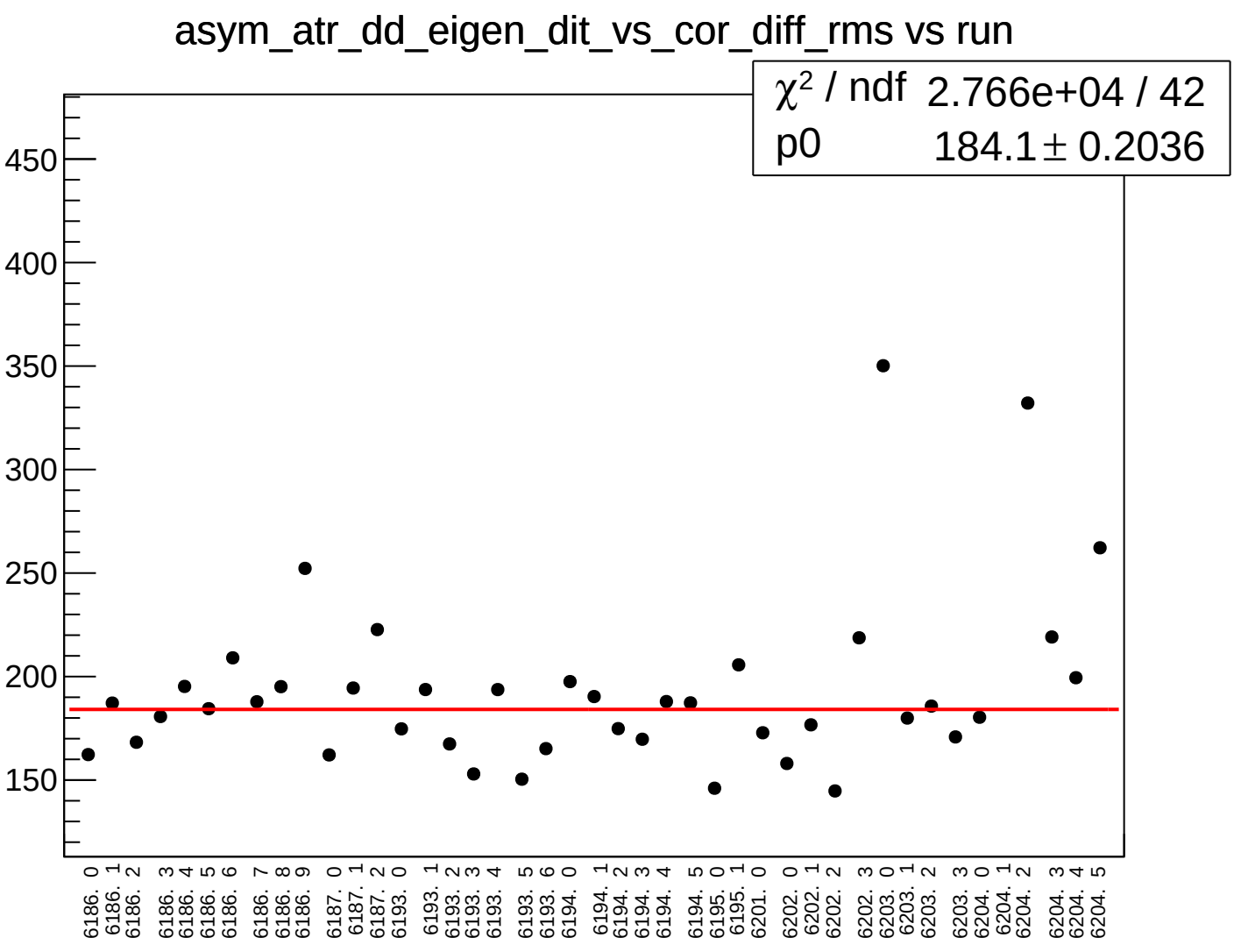

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.11 / 42
p0 −0.168 ± 0.288
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −253.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.005202
Std Dev 1.058
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.766e+04 / 42
p0 184.1 ± 0.2037
450
400
350
300
250
200
150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 54.05 / 42
p0 3.333e−05 ± 3.97e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 276.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.004451
Std Dev 1.121
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4224 / 42
p0 0.02575 ± 2.807e–05
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.11 / 42
p0 −0.168 ± 0.288
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −253.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.005201
Std Dev 1.058
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.766e+04 / 42
p0 184.1 ± 0.2036
450
400
350
300
250
200
150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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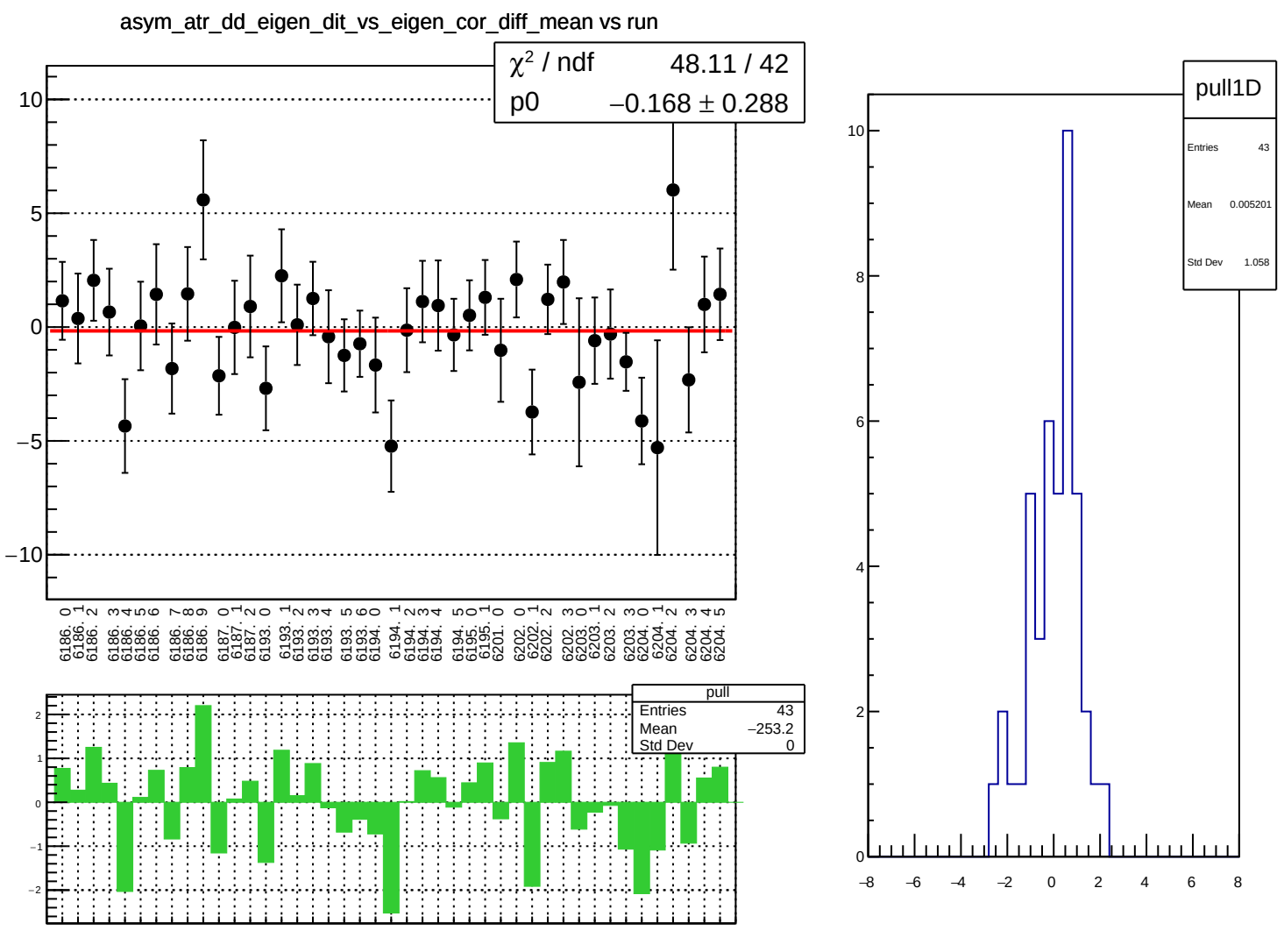
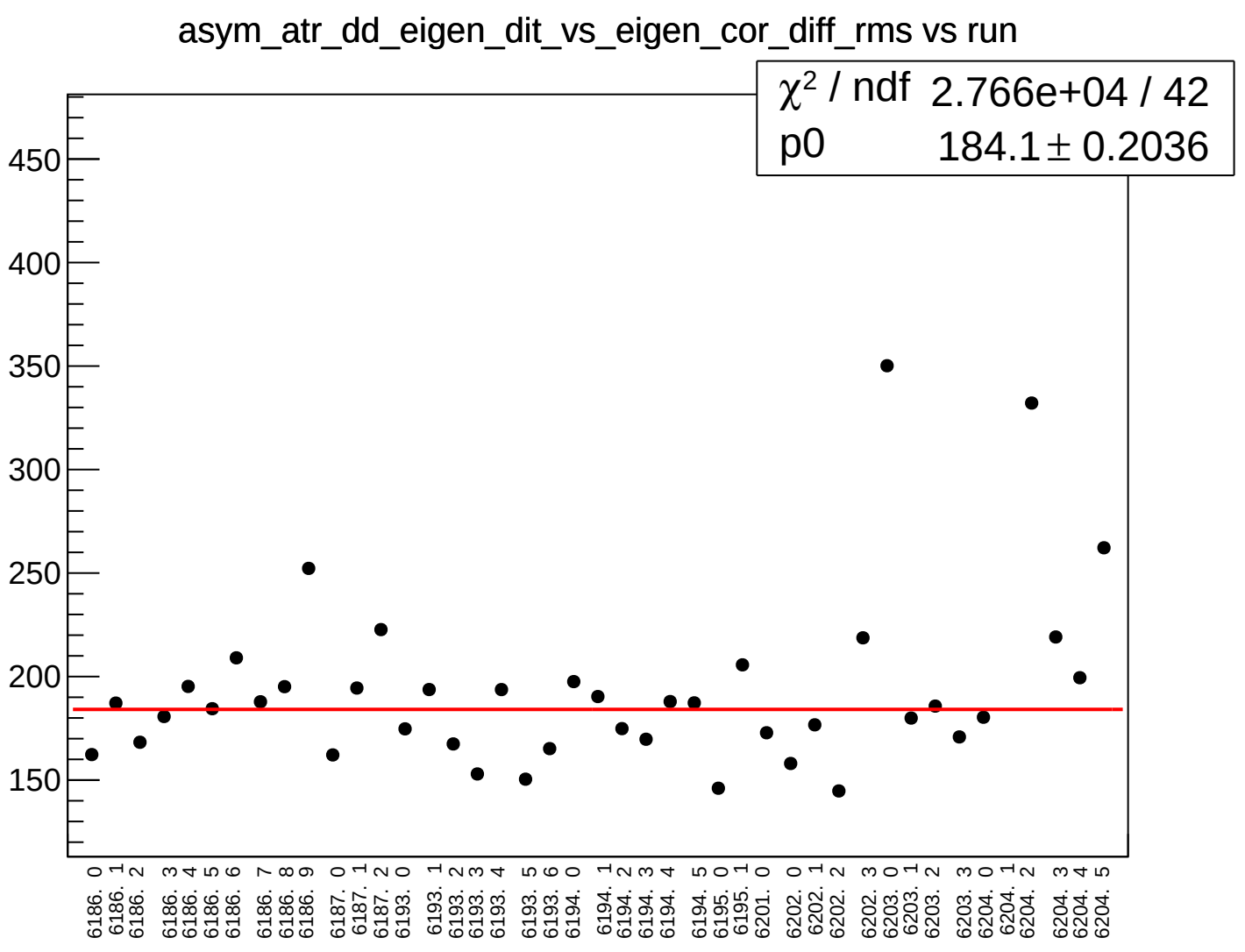
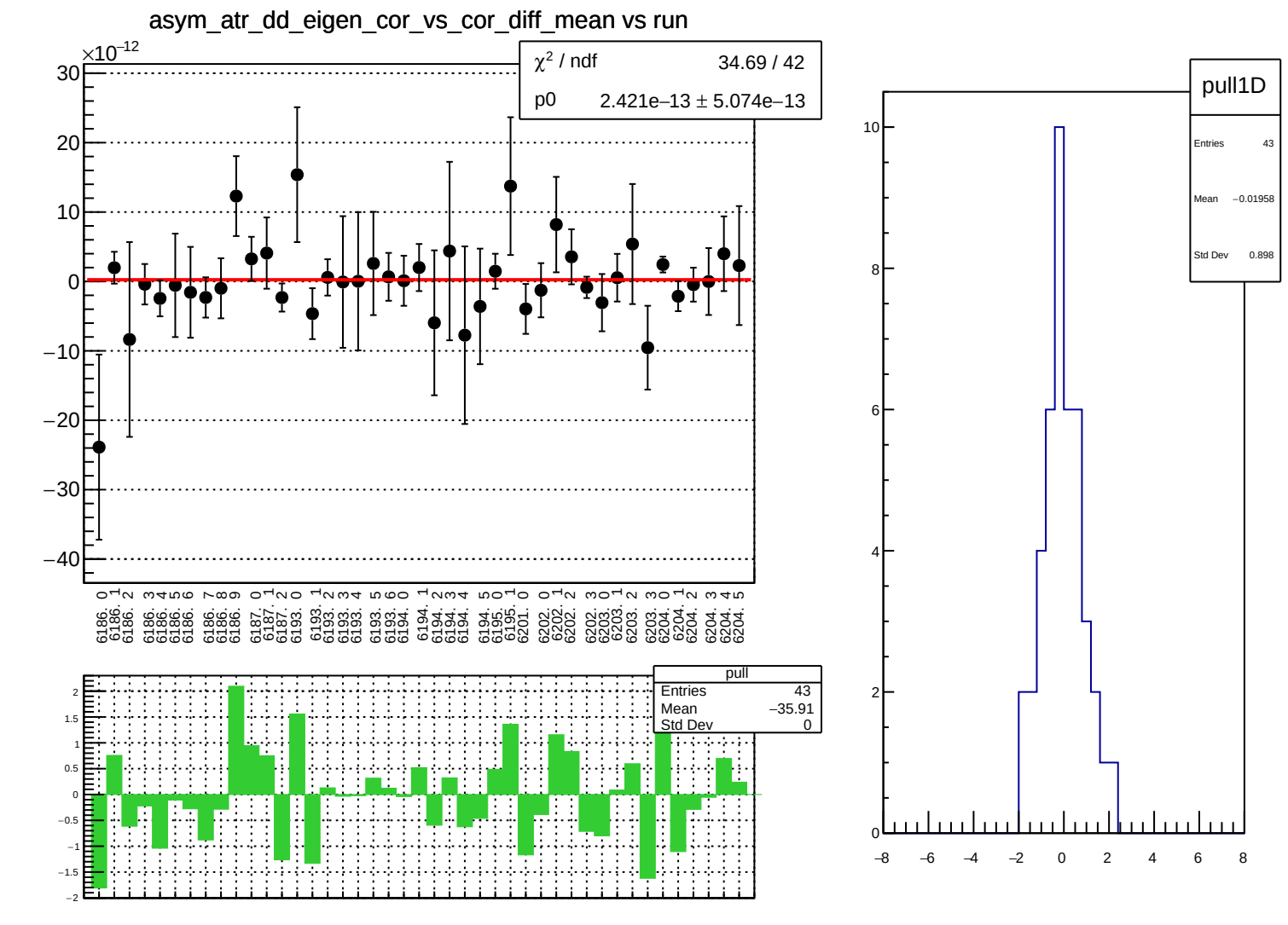
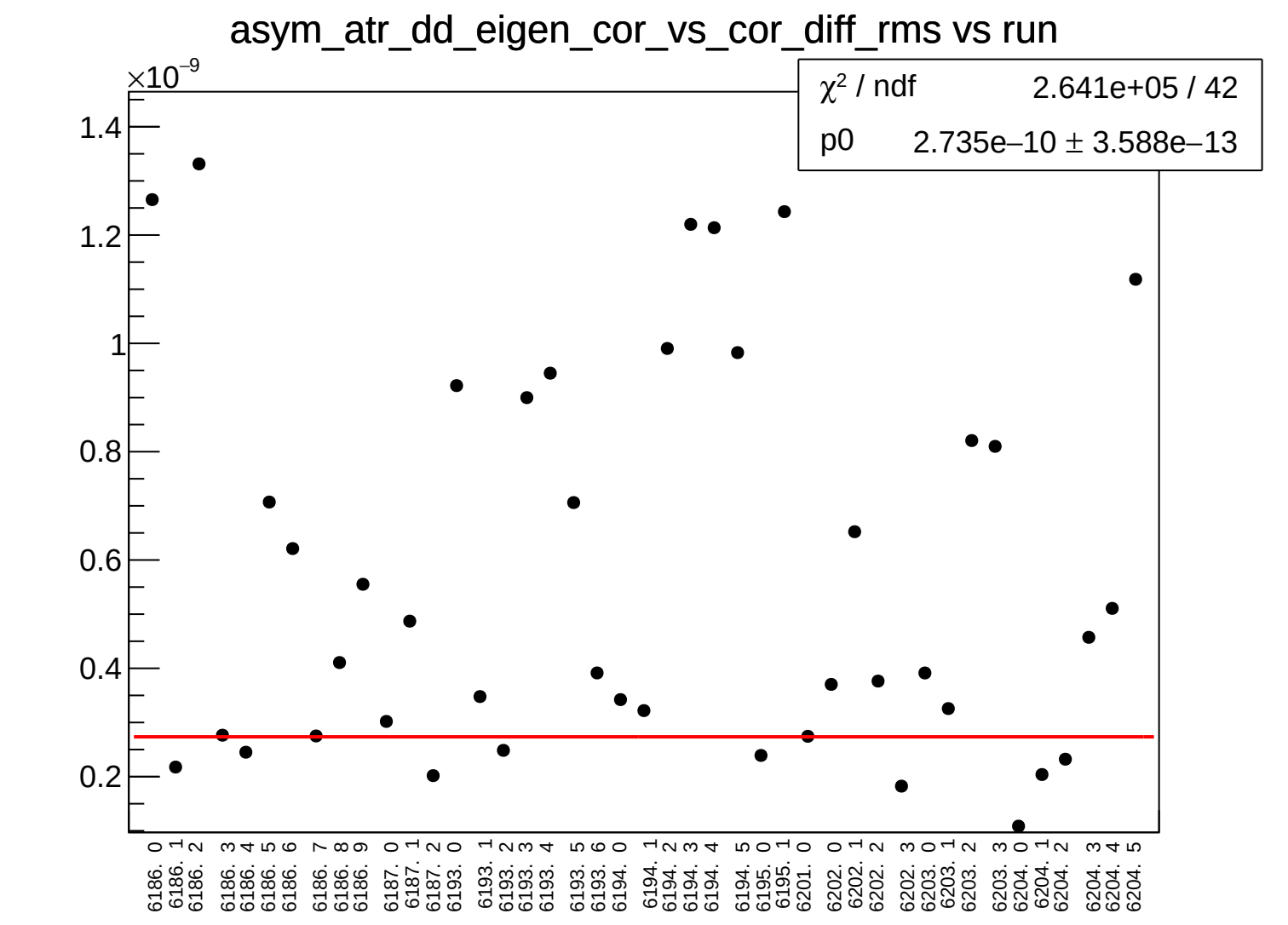
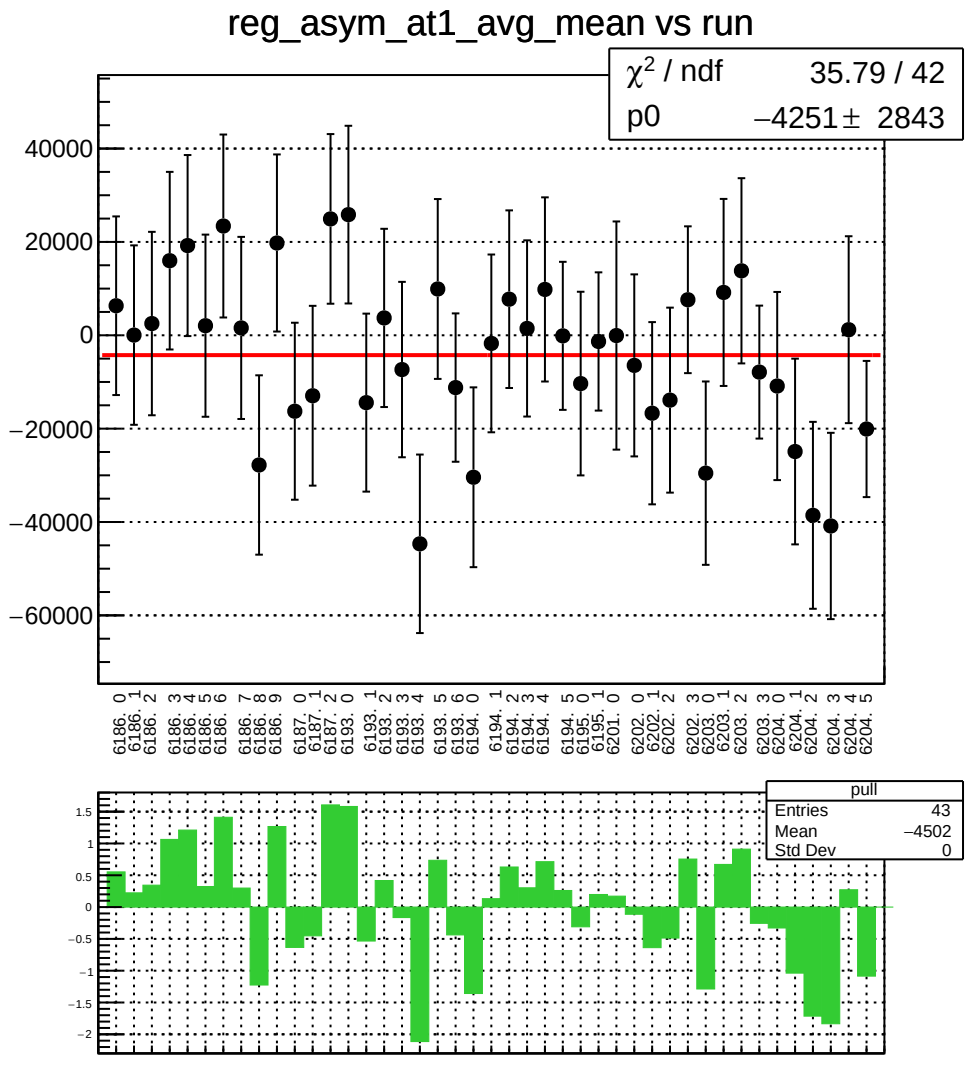
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

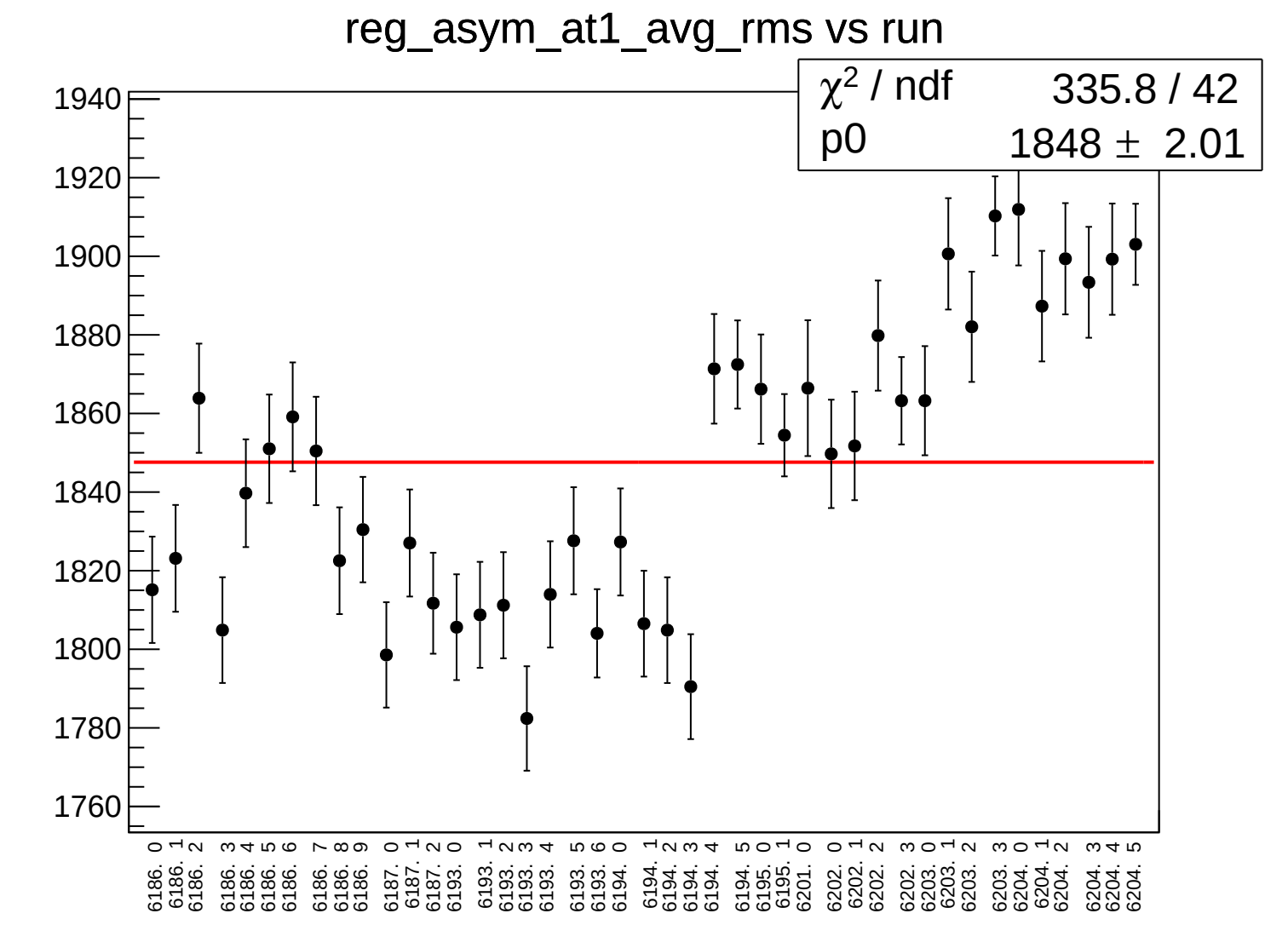

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.11 / 42
p0 −0.168 ± 0.288
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −253.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.005201
Std Dev 1.058
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

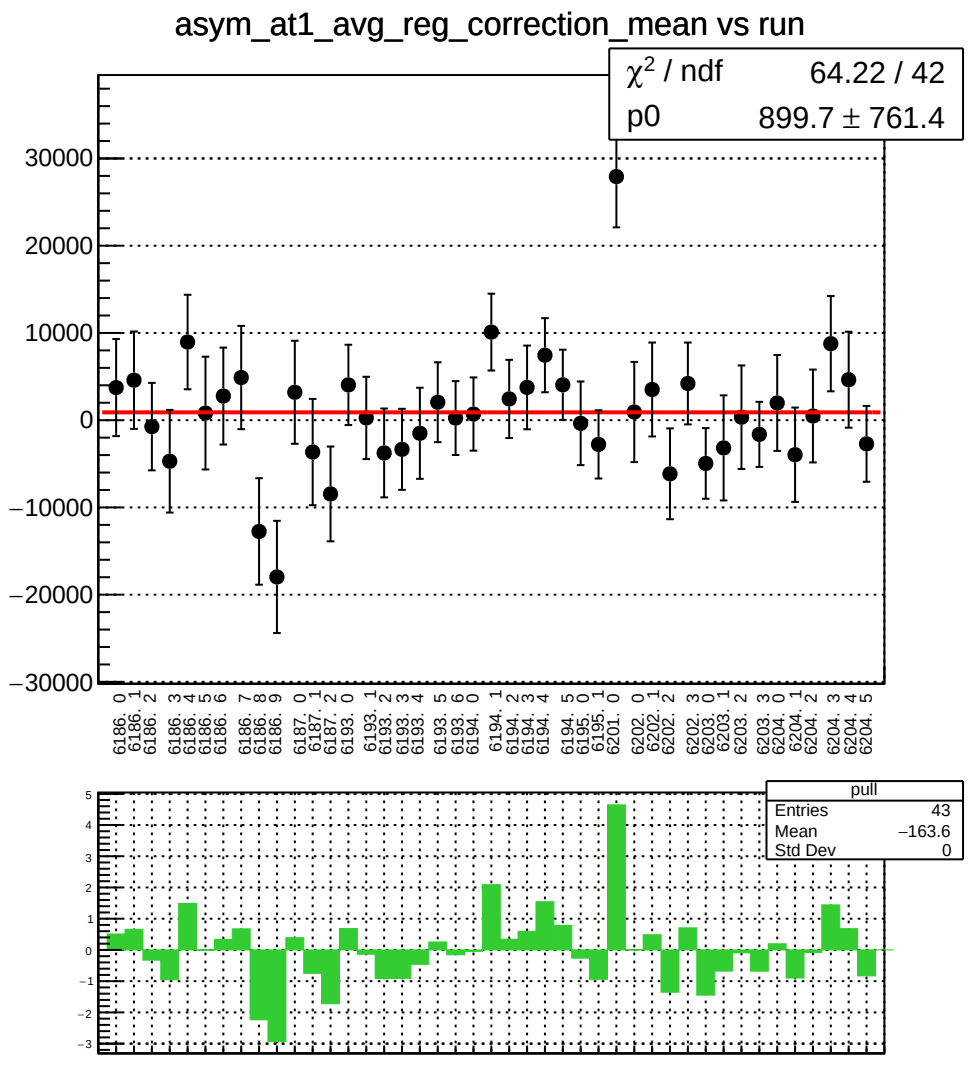

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.766e+04 / 42
p0 184.1 ± 0.2036
450
400
350
300
250
200
150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

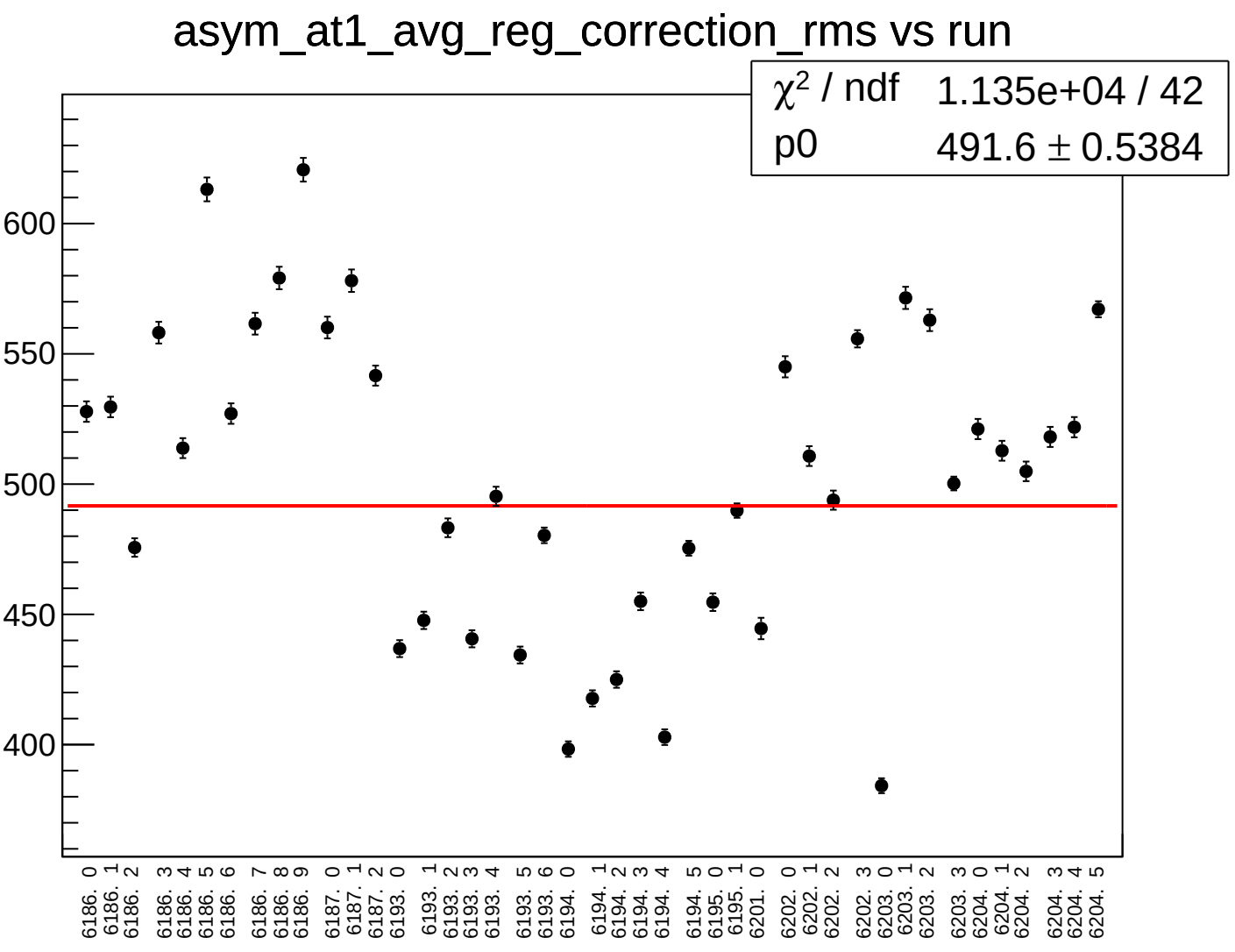

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 34.69 / 42
p0 2.421e−13 ± 5.074e−13
pull
Entries 43
Mean −35.91
Std Dev 0
pull1D
Entries 43
Mean −0.01958
Std Dev 0.898

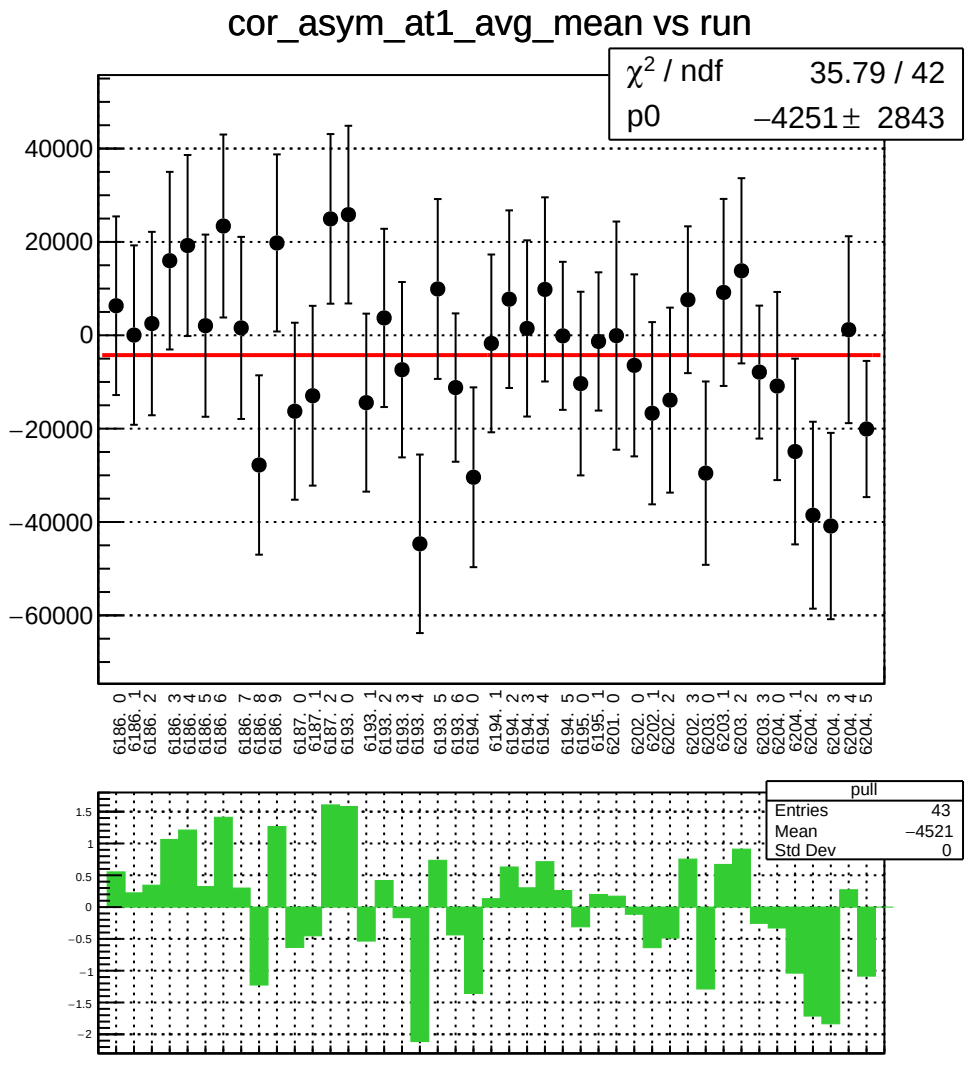

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.641e+05 / 42
p0 2.735e−10 ± 3.588e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

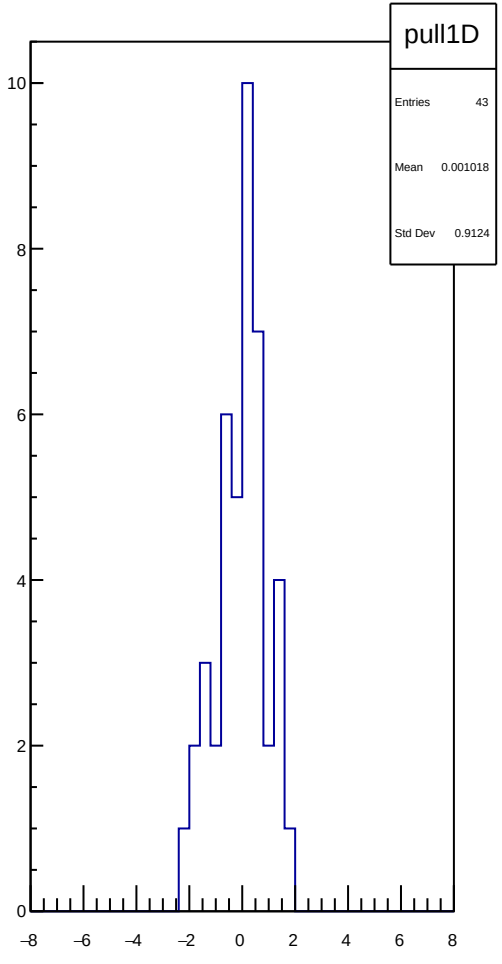

reg_asym_at1_avg_mean vs run
χ² / ndf 35.79 / 42
p0 −4251 ± 2843
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −4502
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.001023
Std Dev 0.9123
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

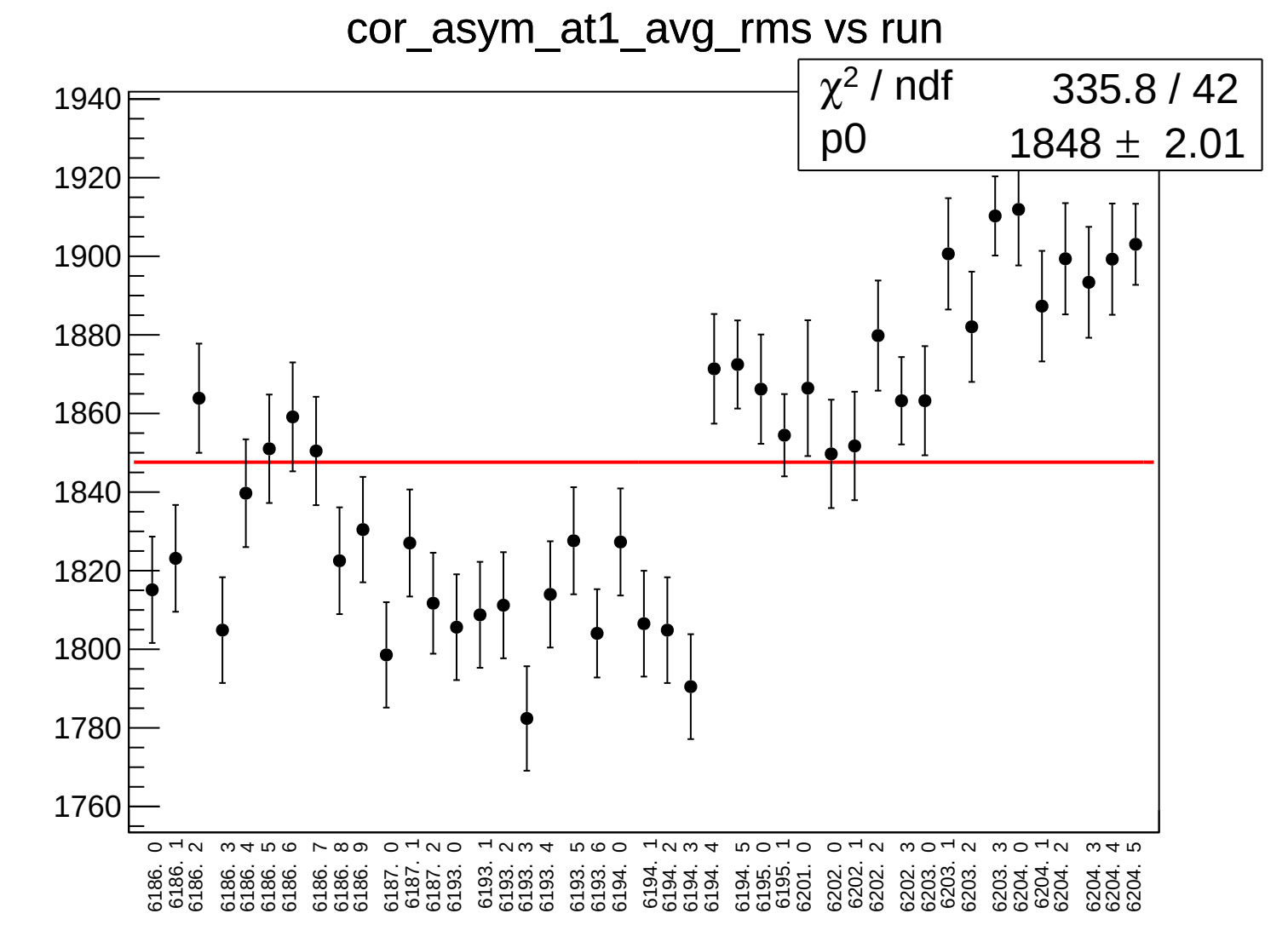

reg_asym_at1_avg_rms vs run
χ² / ndf 335.8 / 42
p0 1848 ± 2.01
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

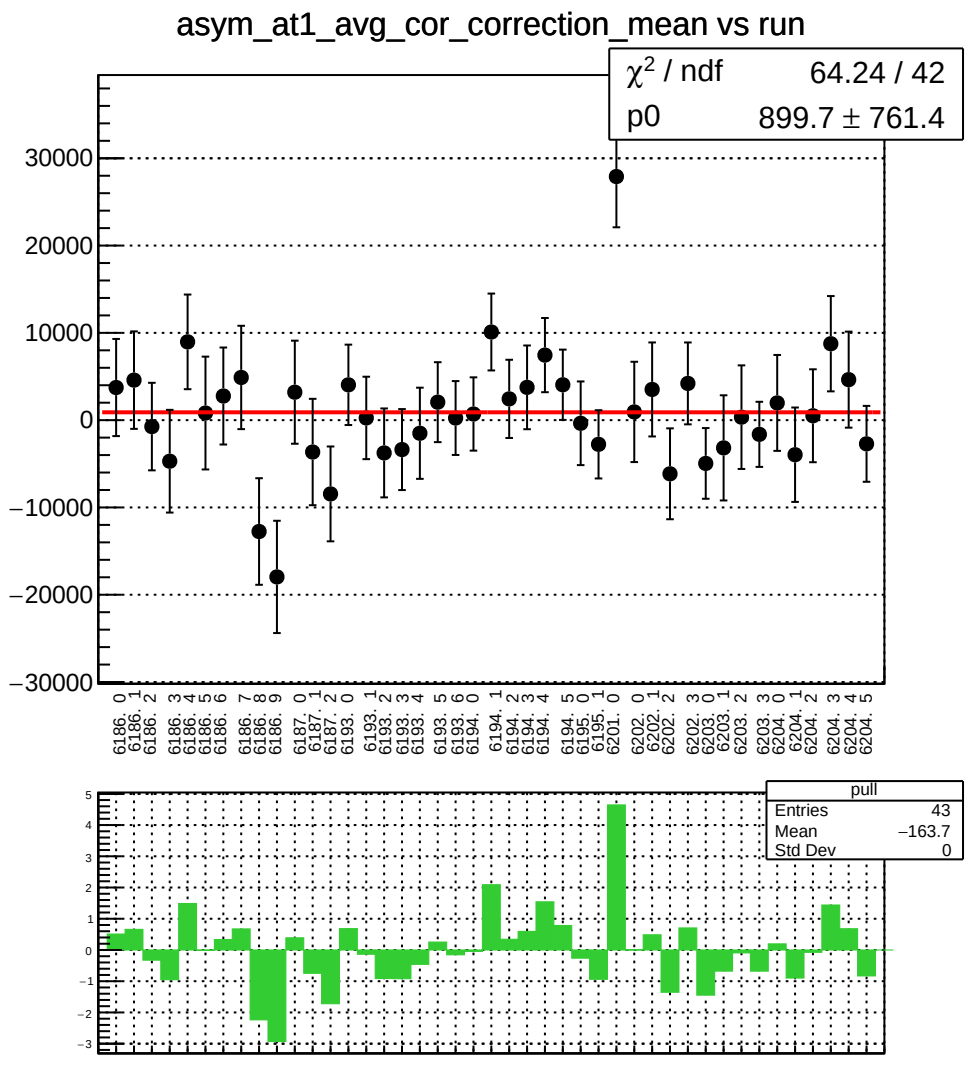

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 64.22 / 42
p0 899.7 ± 761.4
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −163.6
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.006989
Std Dev 1.222
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

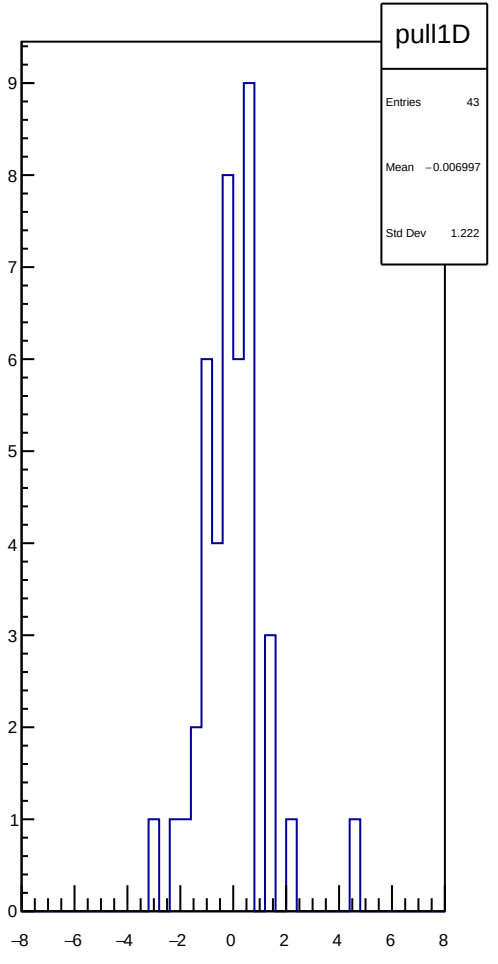

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.135e+04 / 42
p0 491.6 ± 0.5384
600
550
500
450
400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

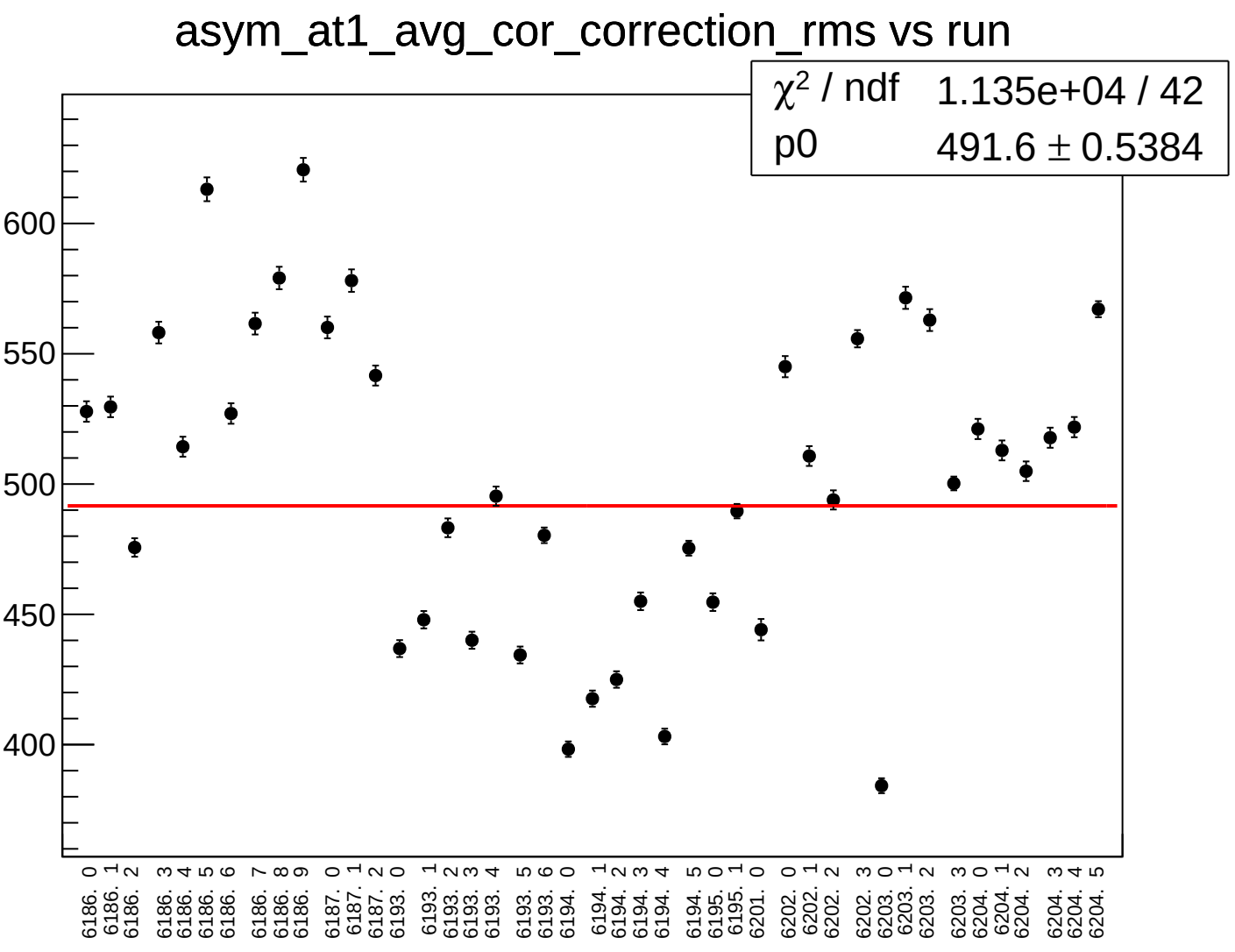

cor_asym_at1_avg_mean vs run
χ² / ndf 35.79 / 42
p0 −4251 ± 2843
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −4521
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

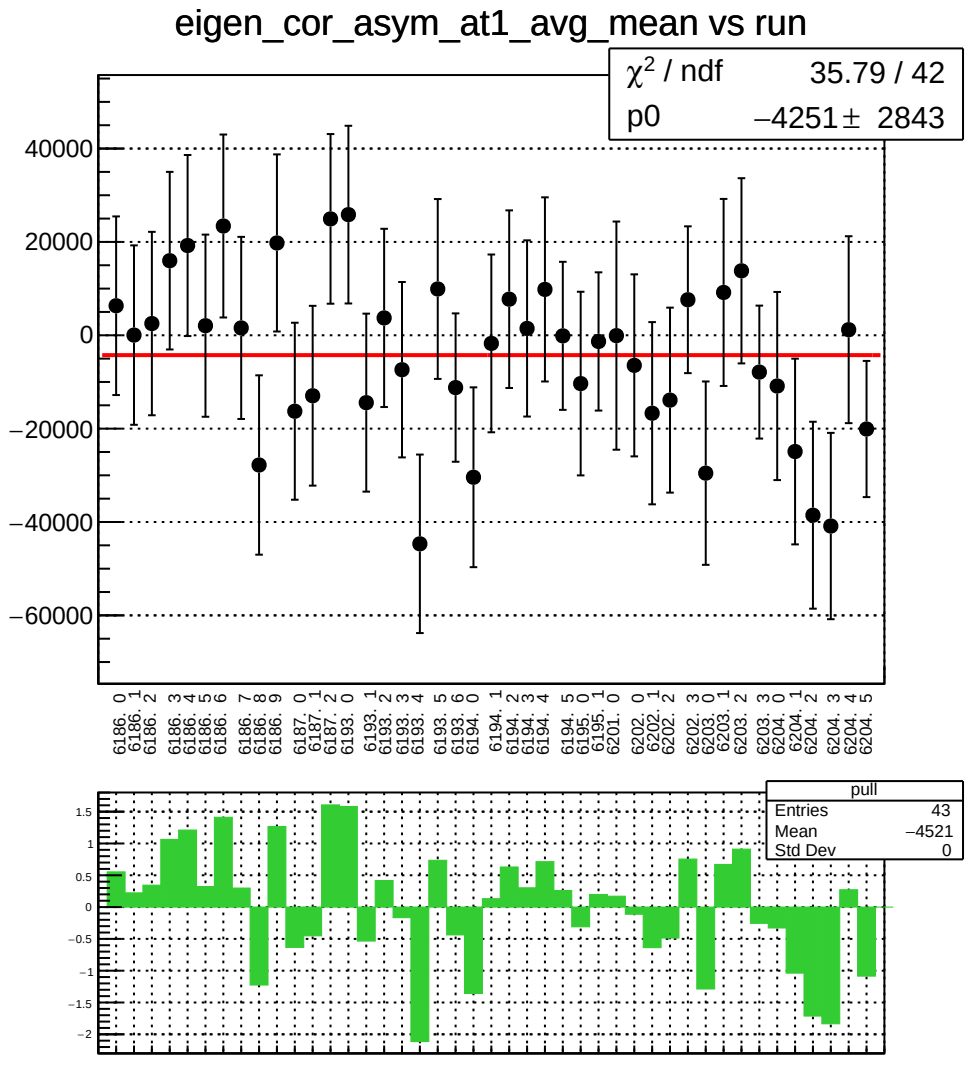

pull1D
Entries 43
Mean 0.001018
Std Dev 0.9124
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

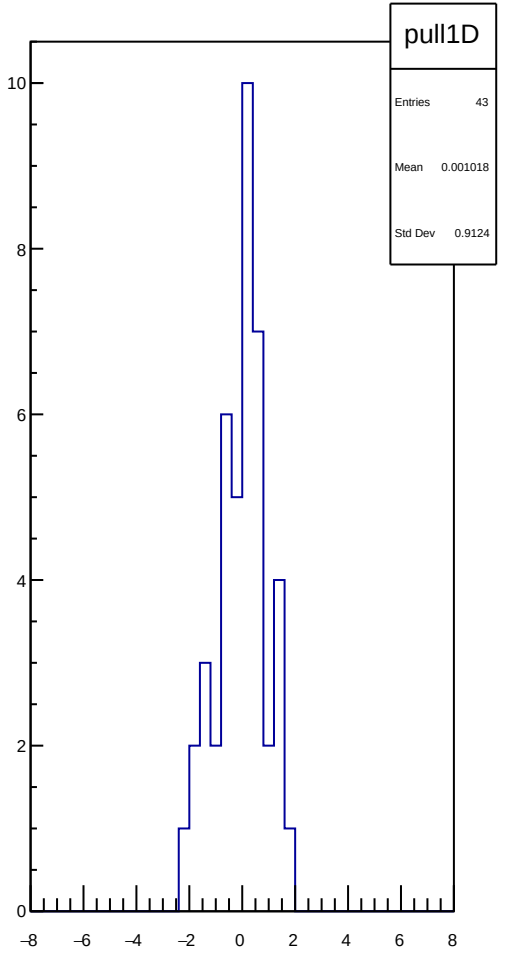

cor_asym_at1_avg_rms vs run
χ² / ndf 335.8 / 42
p0 1848 ± 2.01
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

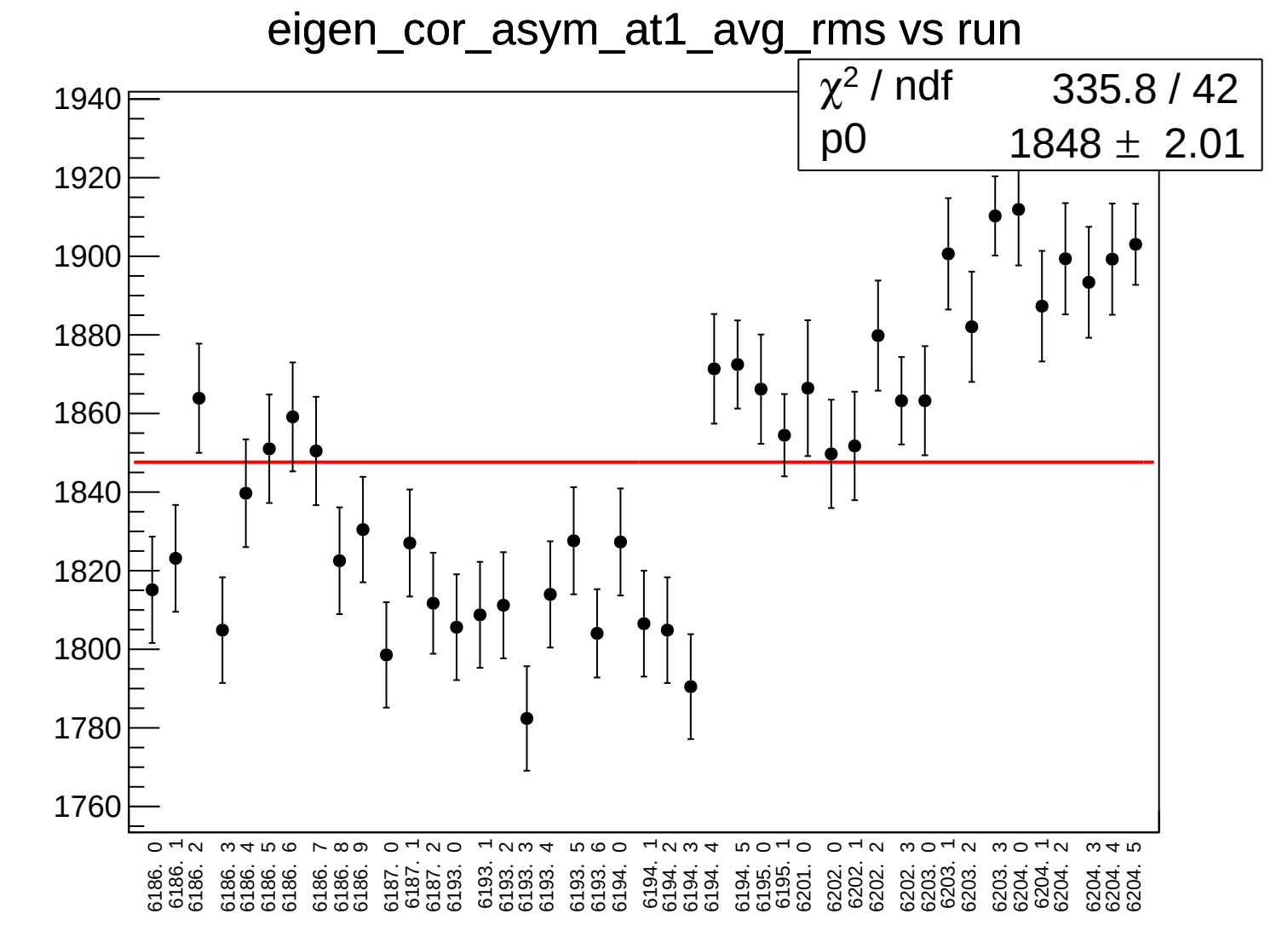

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 64.24 / 42
p0 899.7 ± 761.4
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −163.7
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

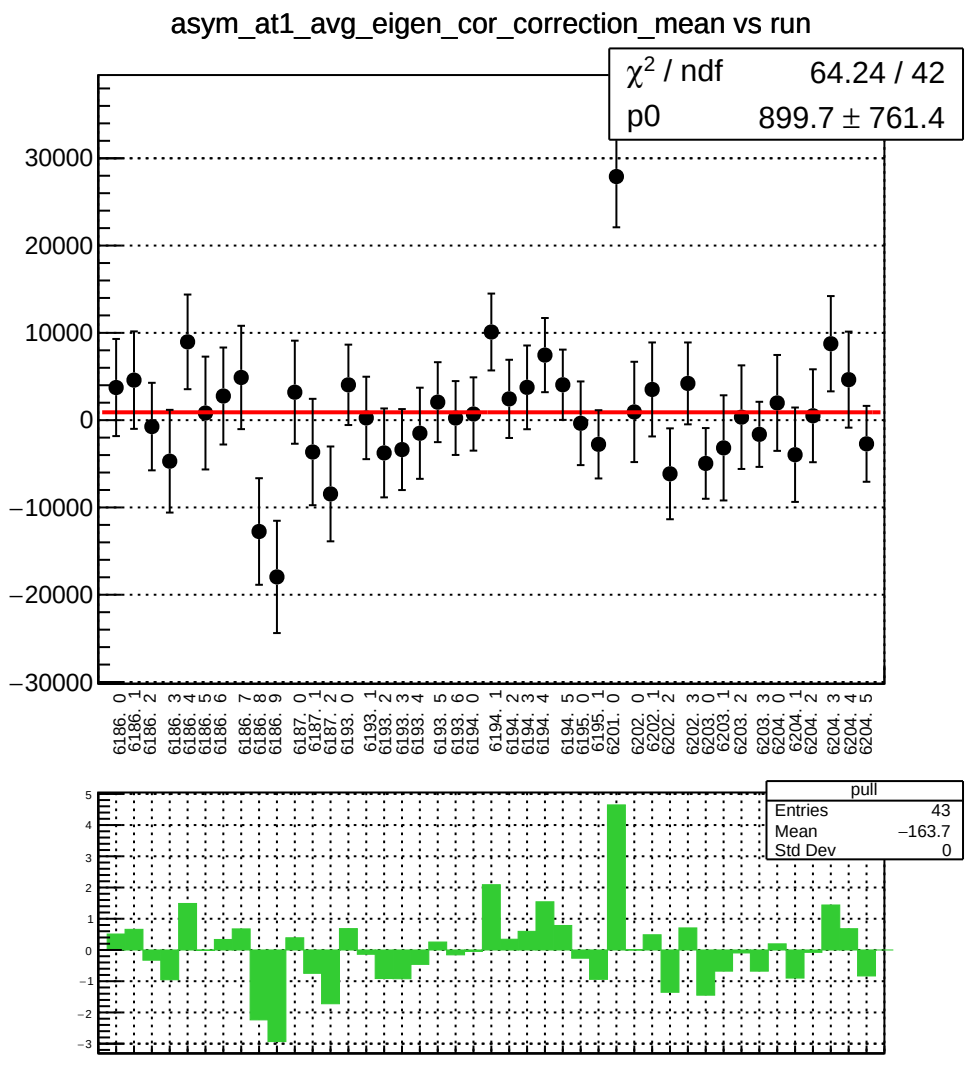

pull1D
Entries 43
Mean −0.006997
Std Dev 1.222
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

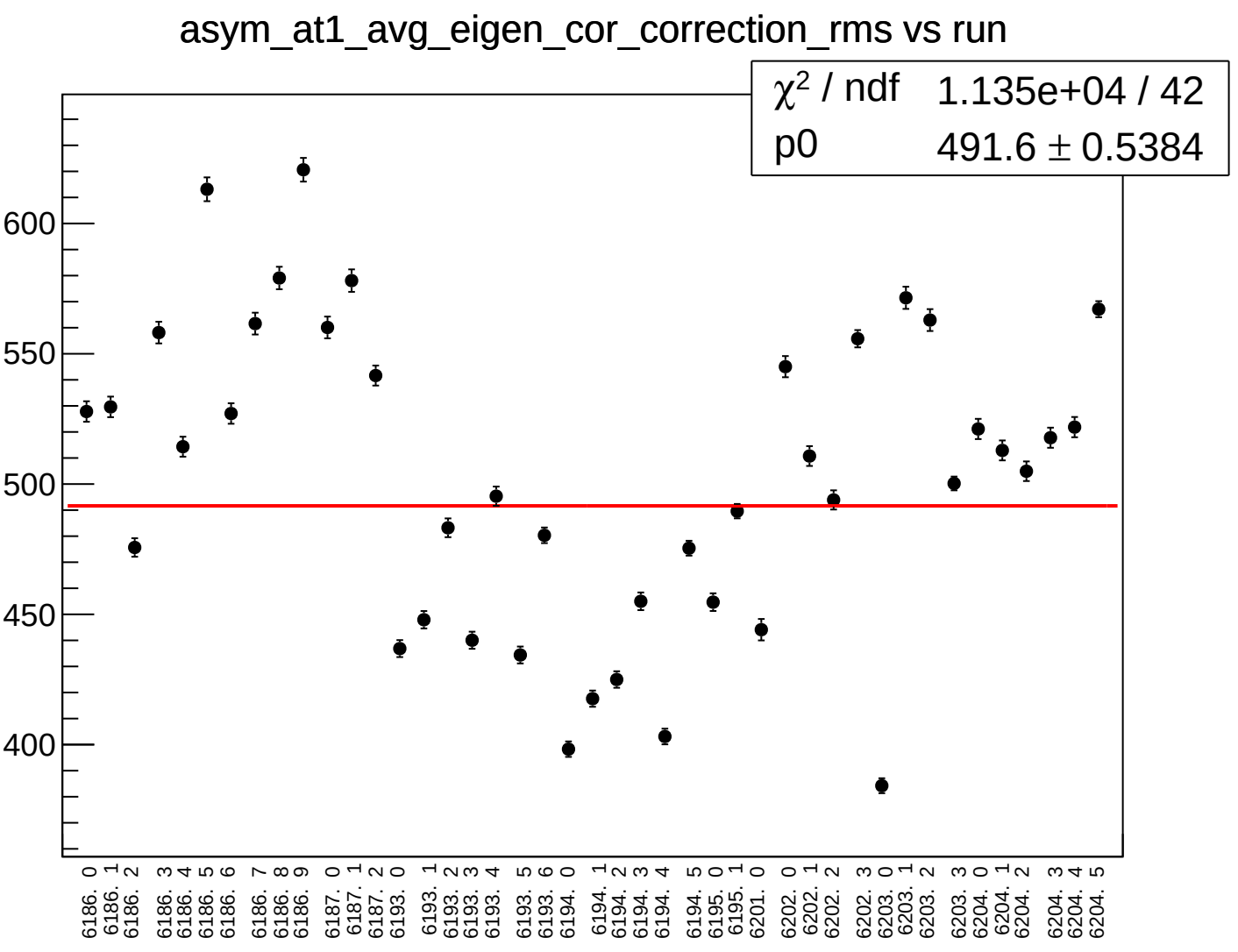

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.135e+04 / 42
p0 491.6 ± 0.5384
600
550
500
450
400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

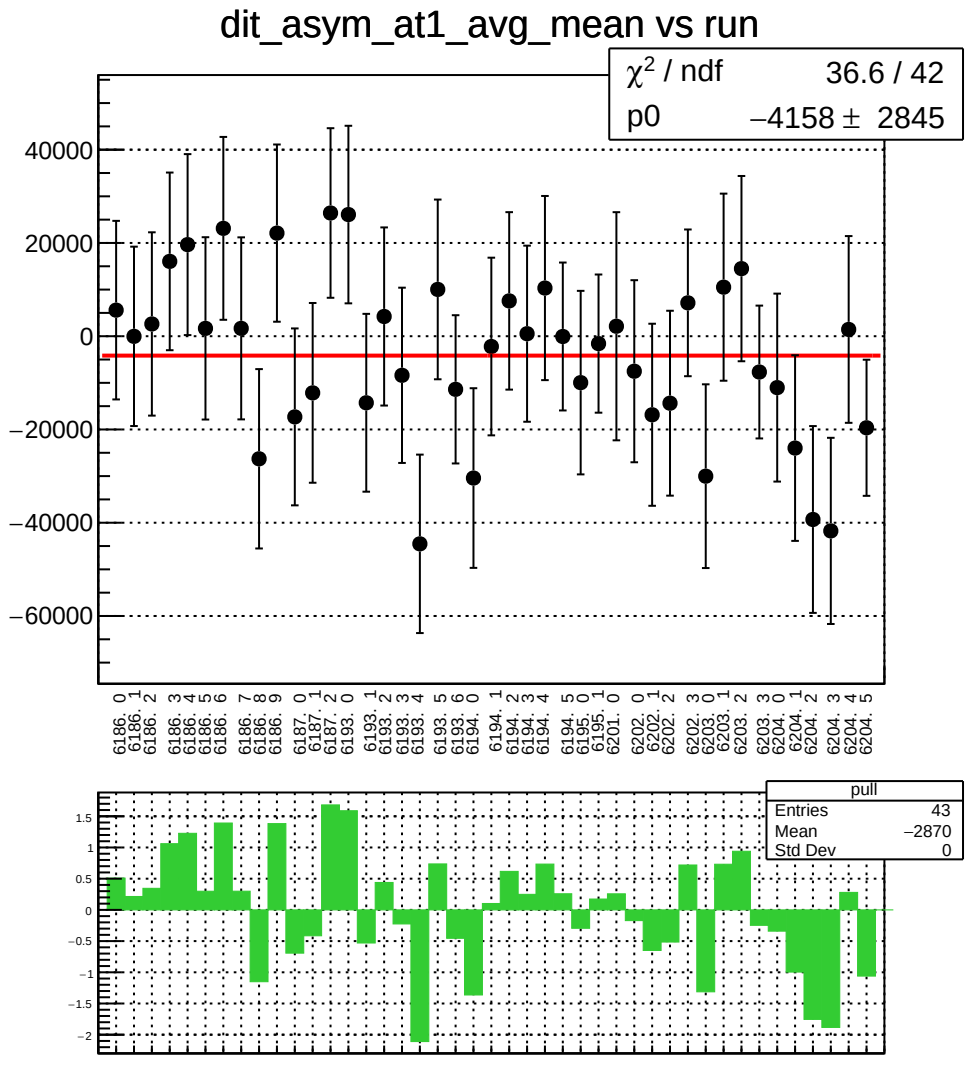

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 35.79 / 42
p0 −4251 ± 2843
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −4521
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

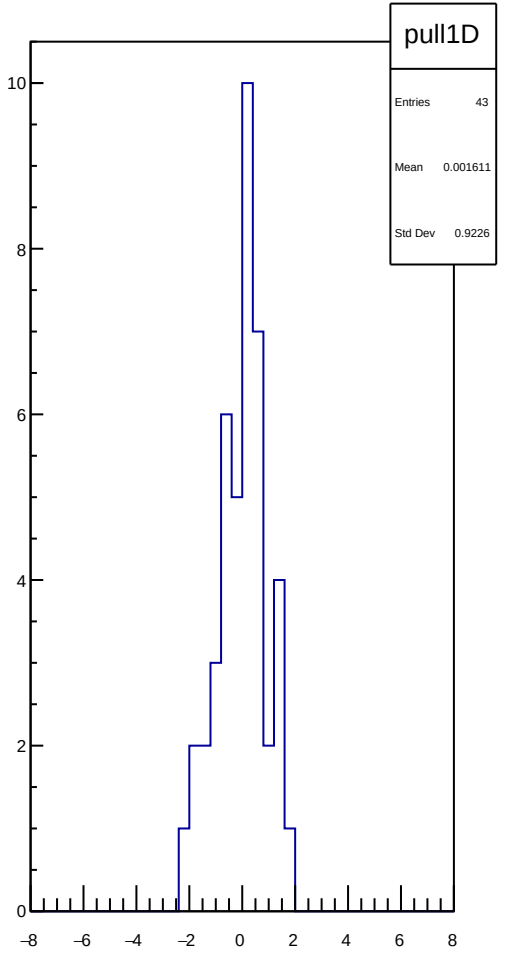

pull1D
Entries 43
Mean 0.001018
Std Dev 0.9124
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

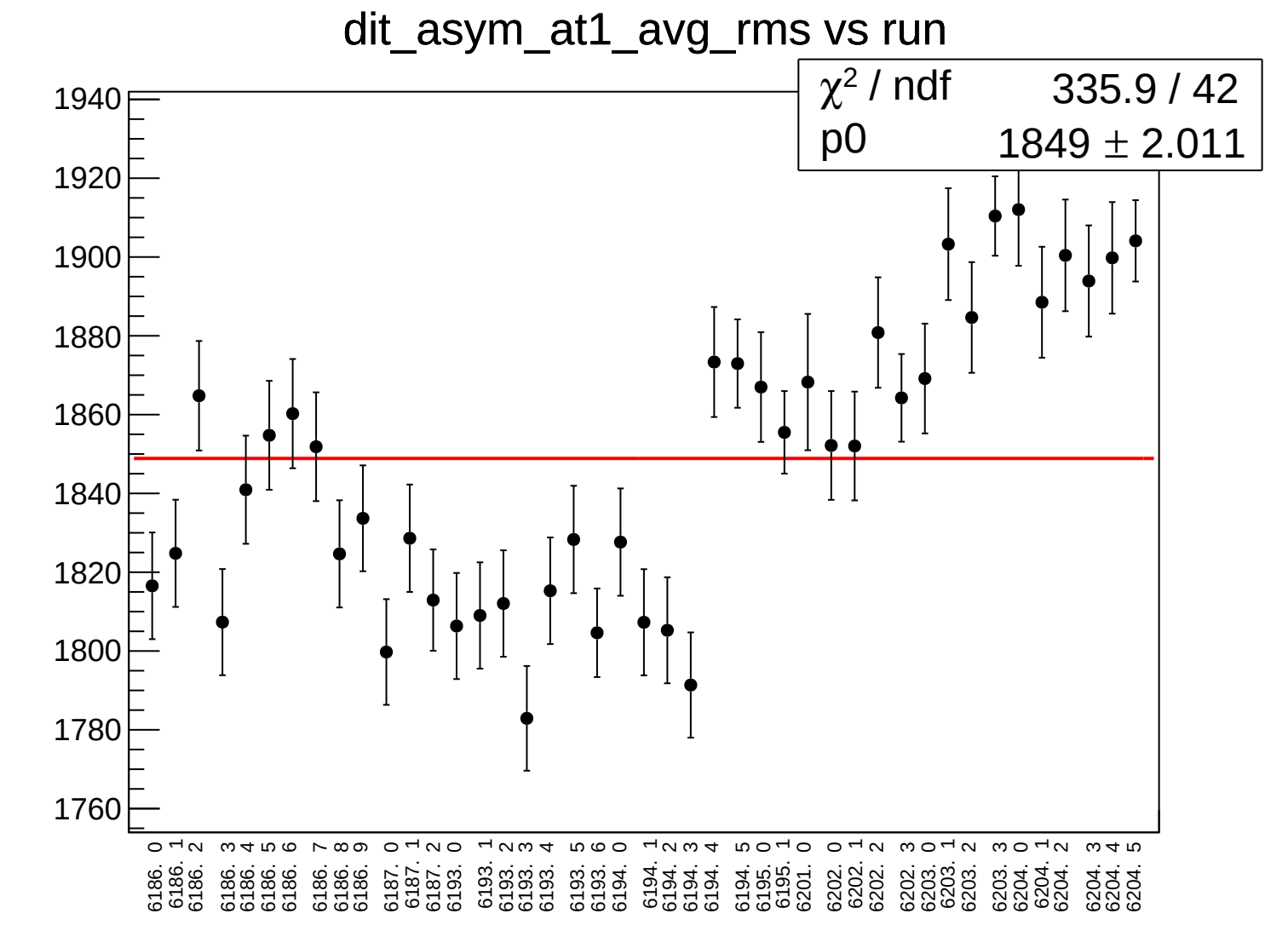

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 335.8 / 42
p0 1848 ± 2.01
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

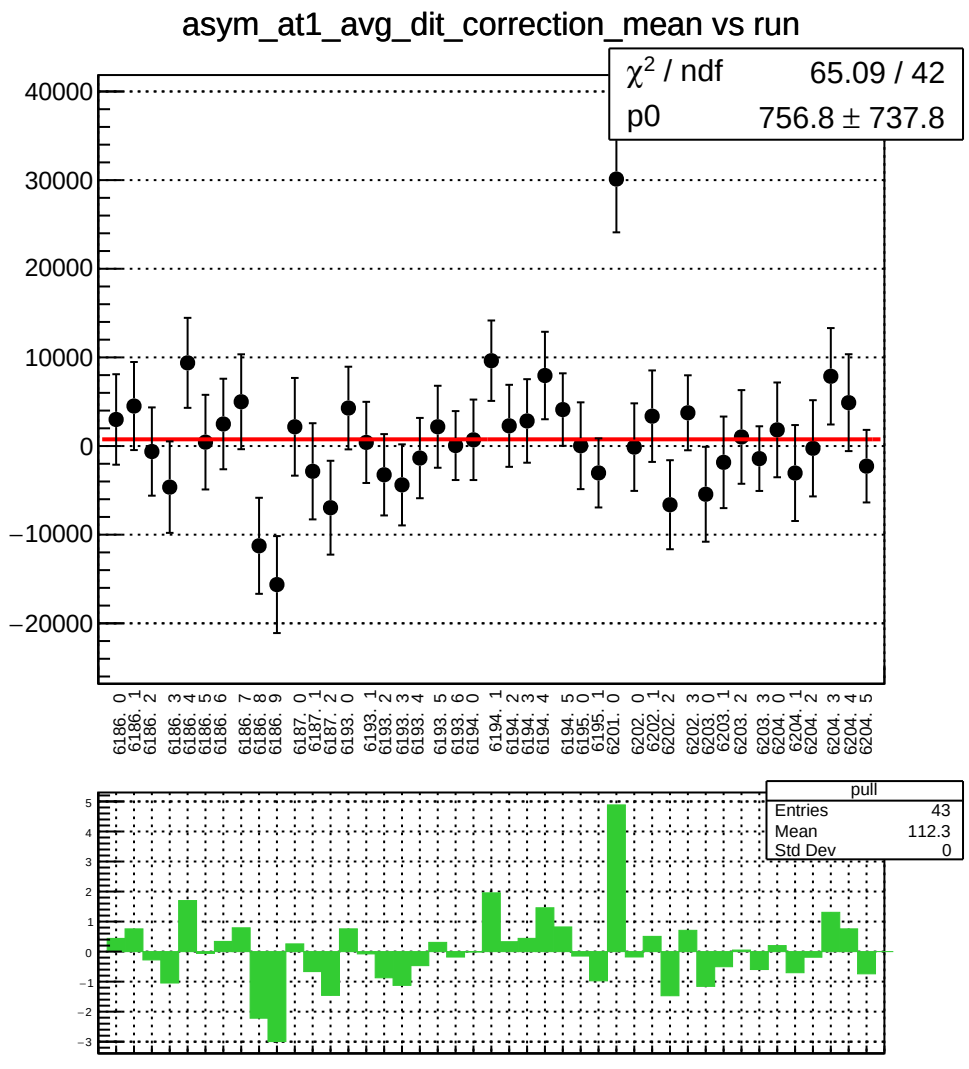

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 64.24 / 42
p0 899.7 ± 761.4
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −163.7
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.006997
Std Dev 1.222
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

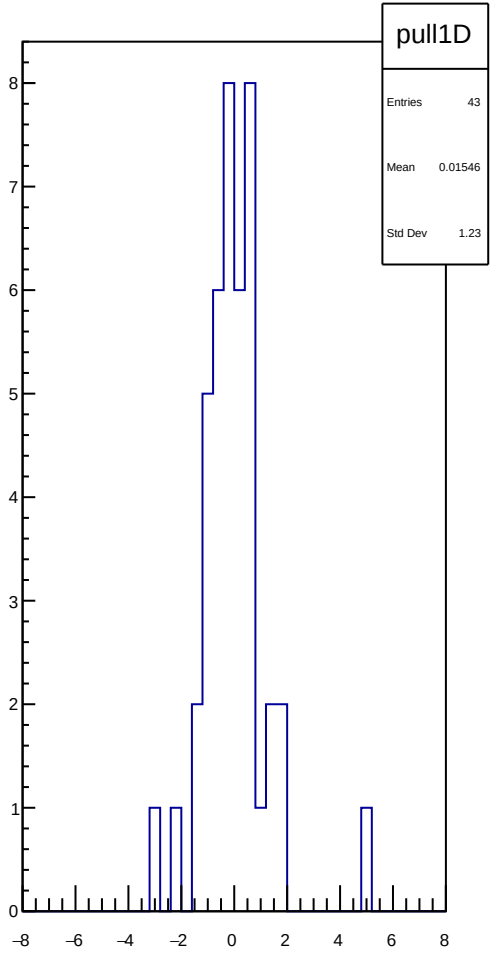

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.135e+04 / 42
p0 491.6 ± 0.5384
600
550
500
450
400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

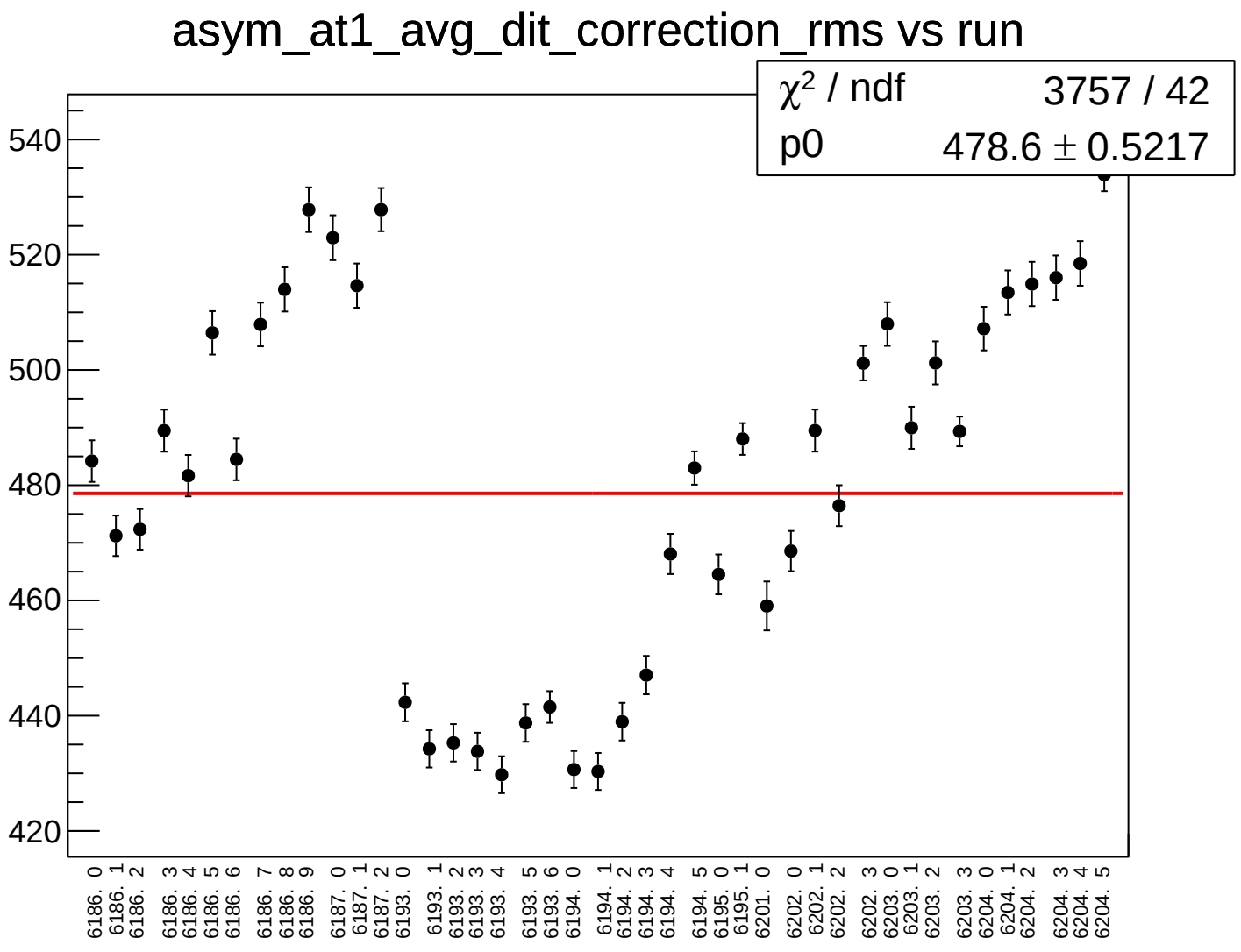

dit_asym_at1_avg_mean vs run
χ² / ndf 36.6 / 42
p0 −4158 ± 2845
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −2870
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

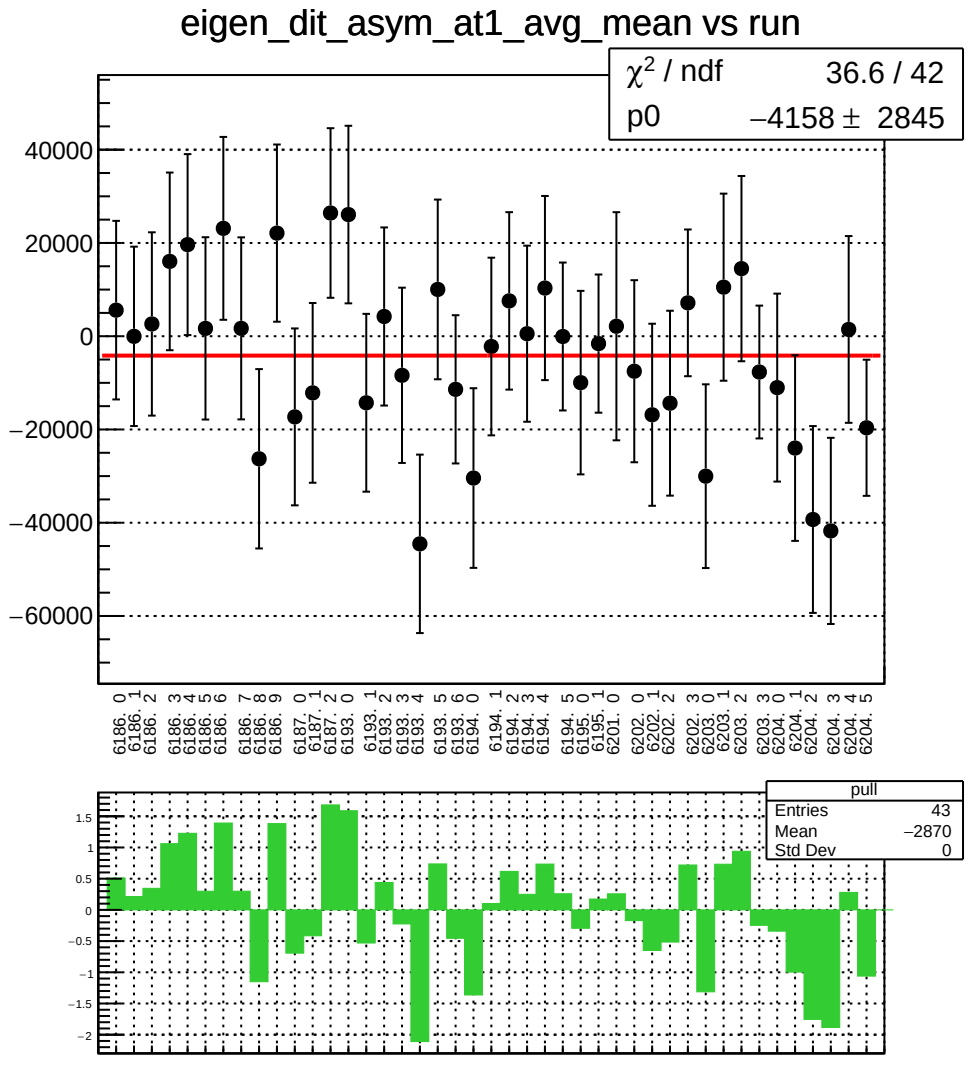

pull1D
Entries 43
Mean 0.001611
Std Dev 0.9226
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

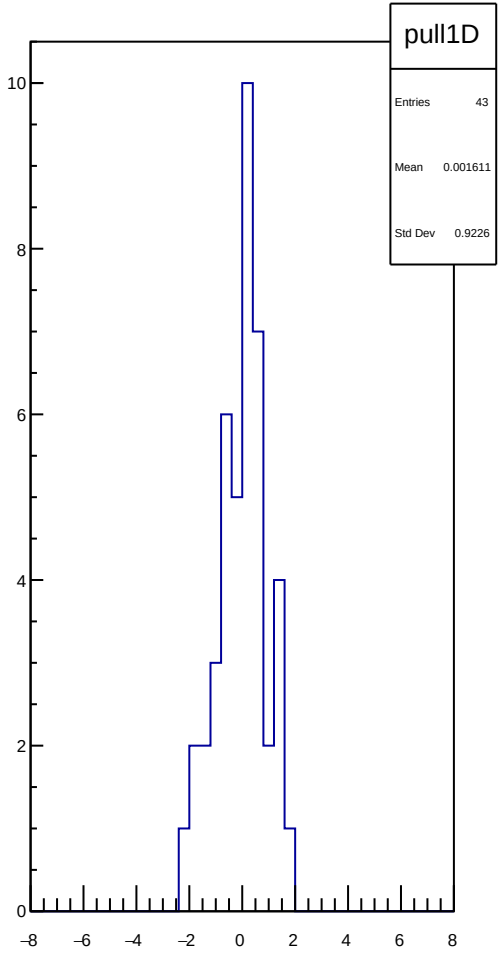

dit_asym_at1_avg_rms vs run
χ² / ndf 335.9 / 42
p0 1849 ± 2.011
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

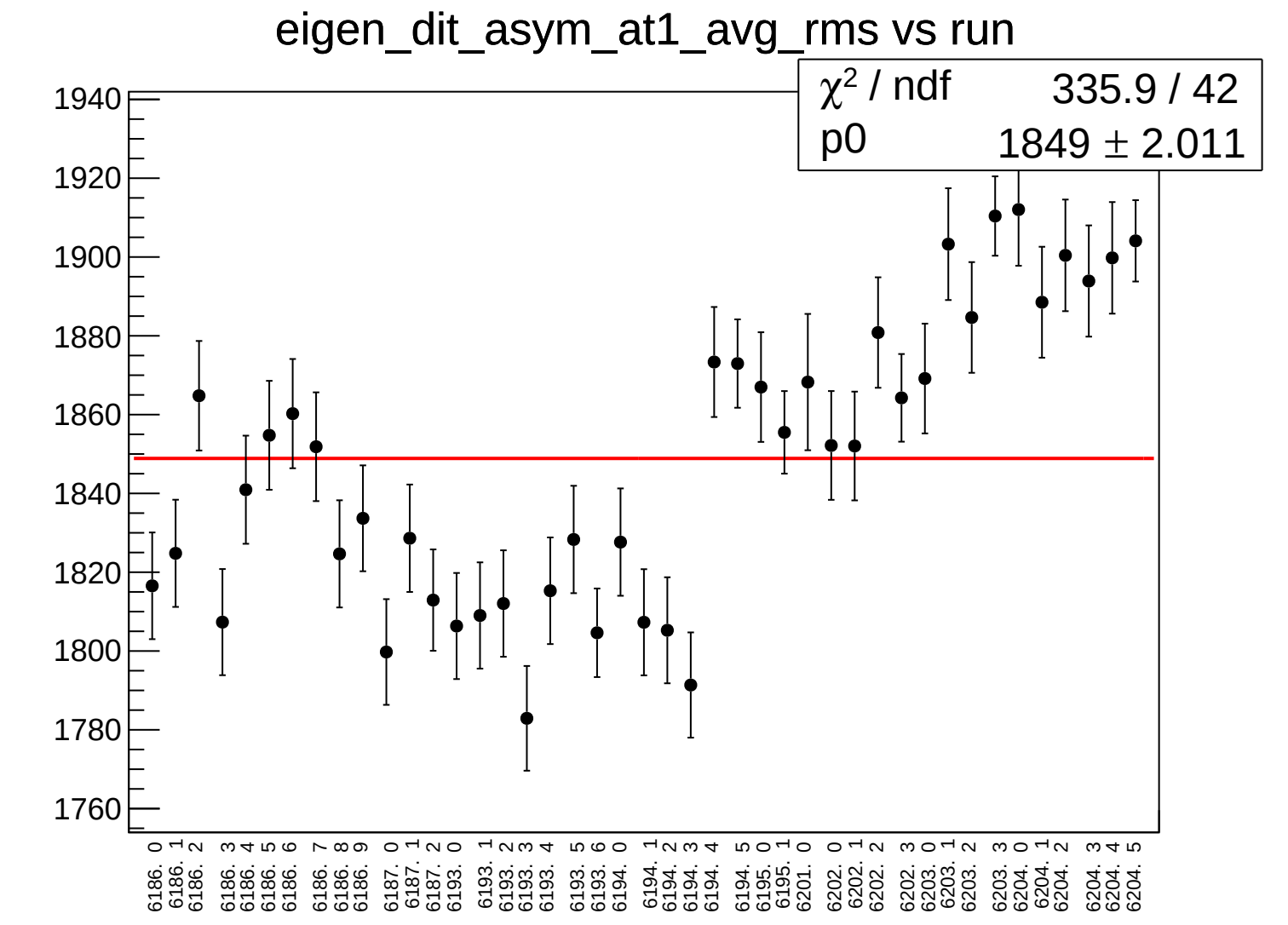

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 65.09 / 42
p0 756.8 ± 737.8
40000
30000
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 112.3
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

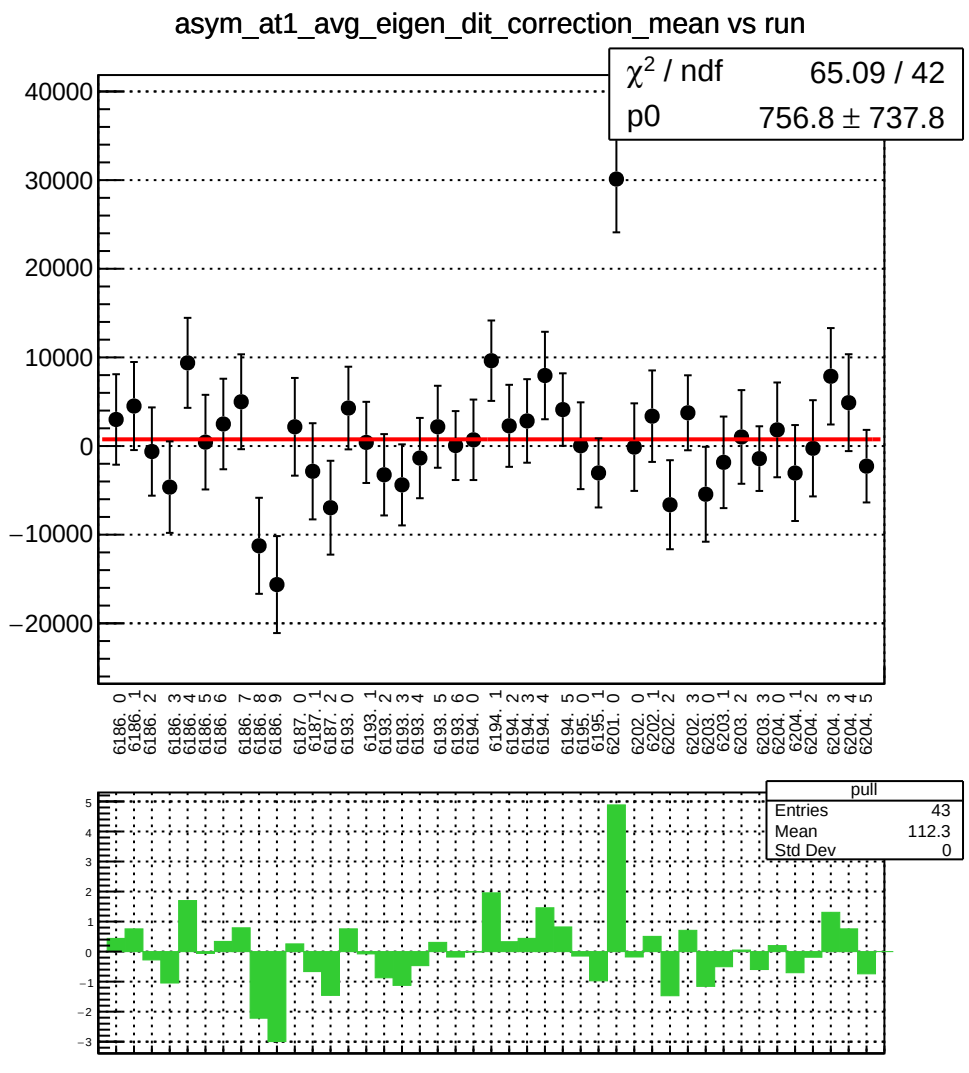

pull1D
Entries 43
Mean 0.01546
Std Dev 1.23
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

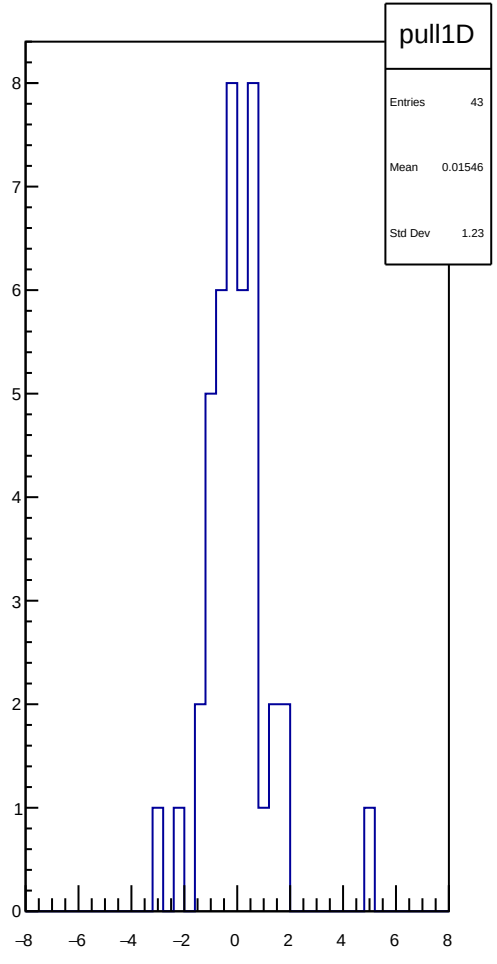

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 3757 / 42
p0 478.6 ± 0.5217
540
520
500
480
460
440
420
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

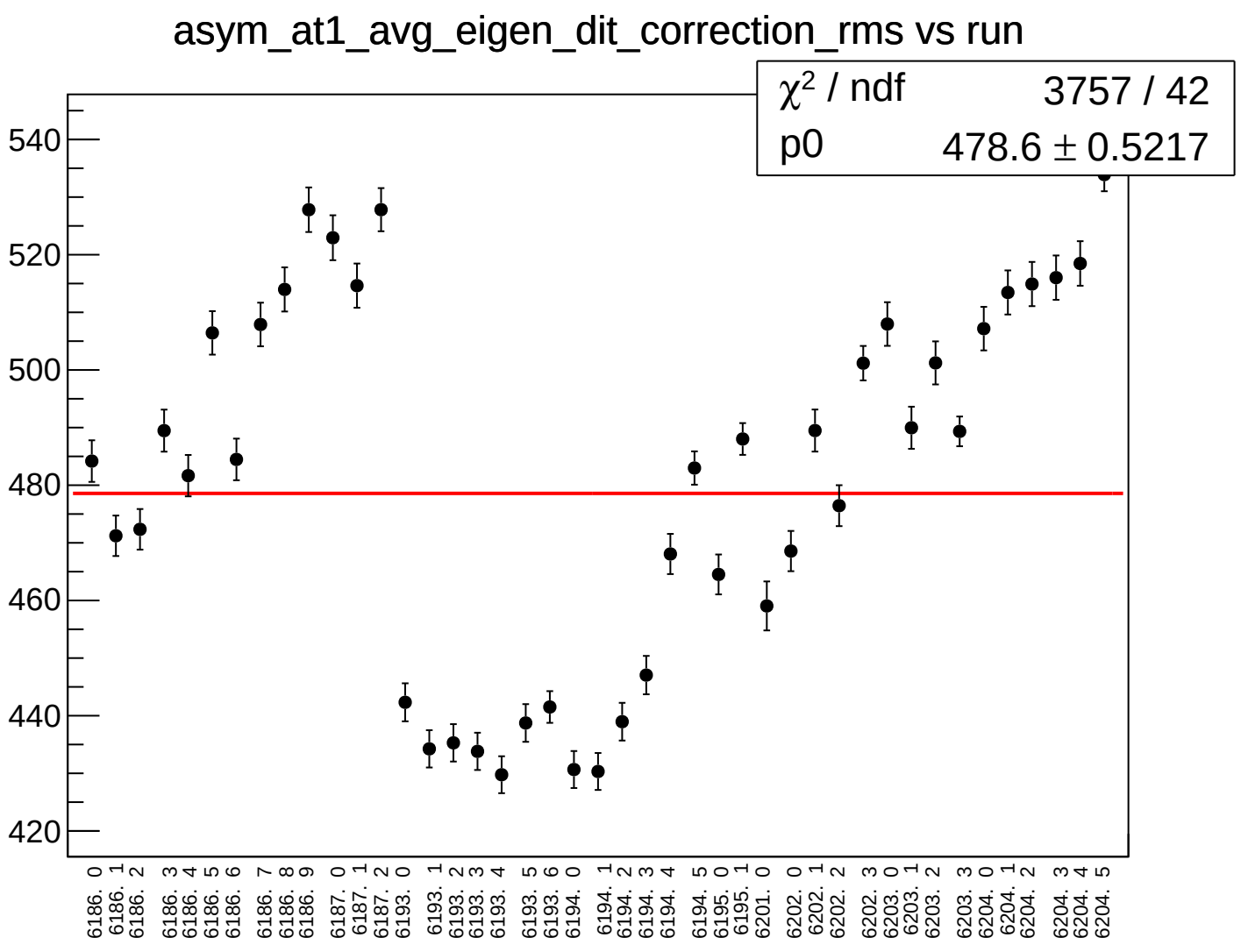

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 36.6 / 42
p0 −4158 ± 2845
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −2870
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

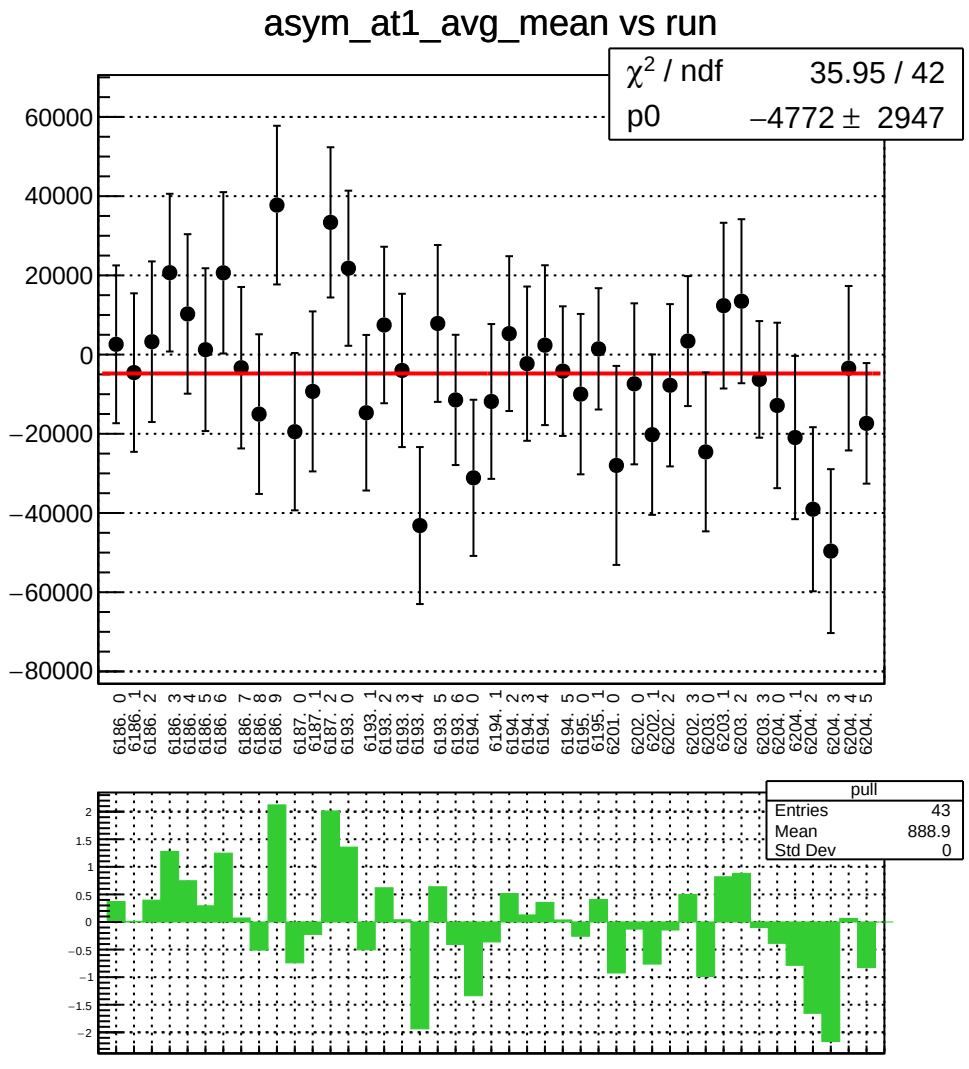

pull1D
Entries 43
Mean 0.001611
Std Dev 0.9226
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

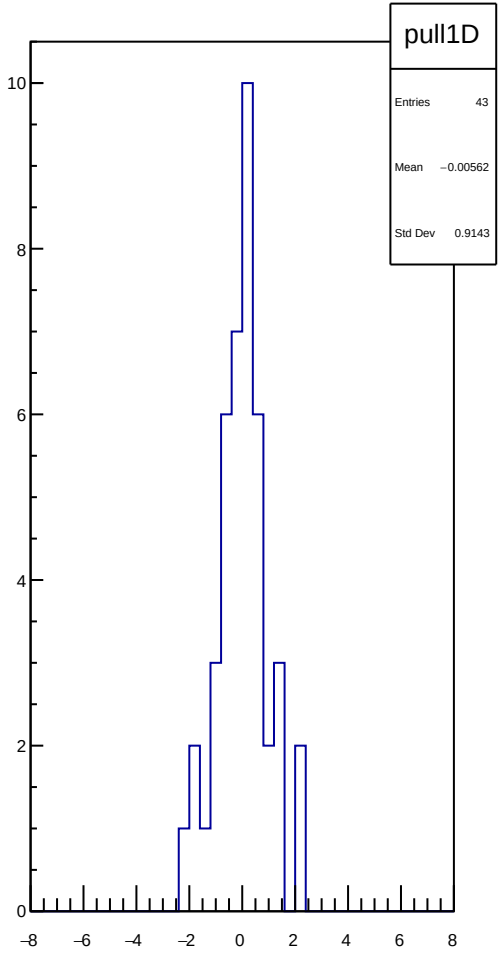

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 335.9 / 42
p0 1849 ± 2.011
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

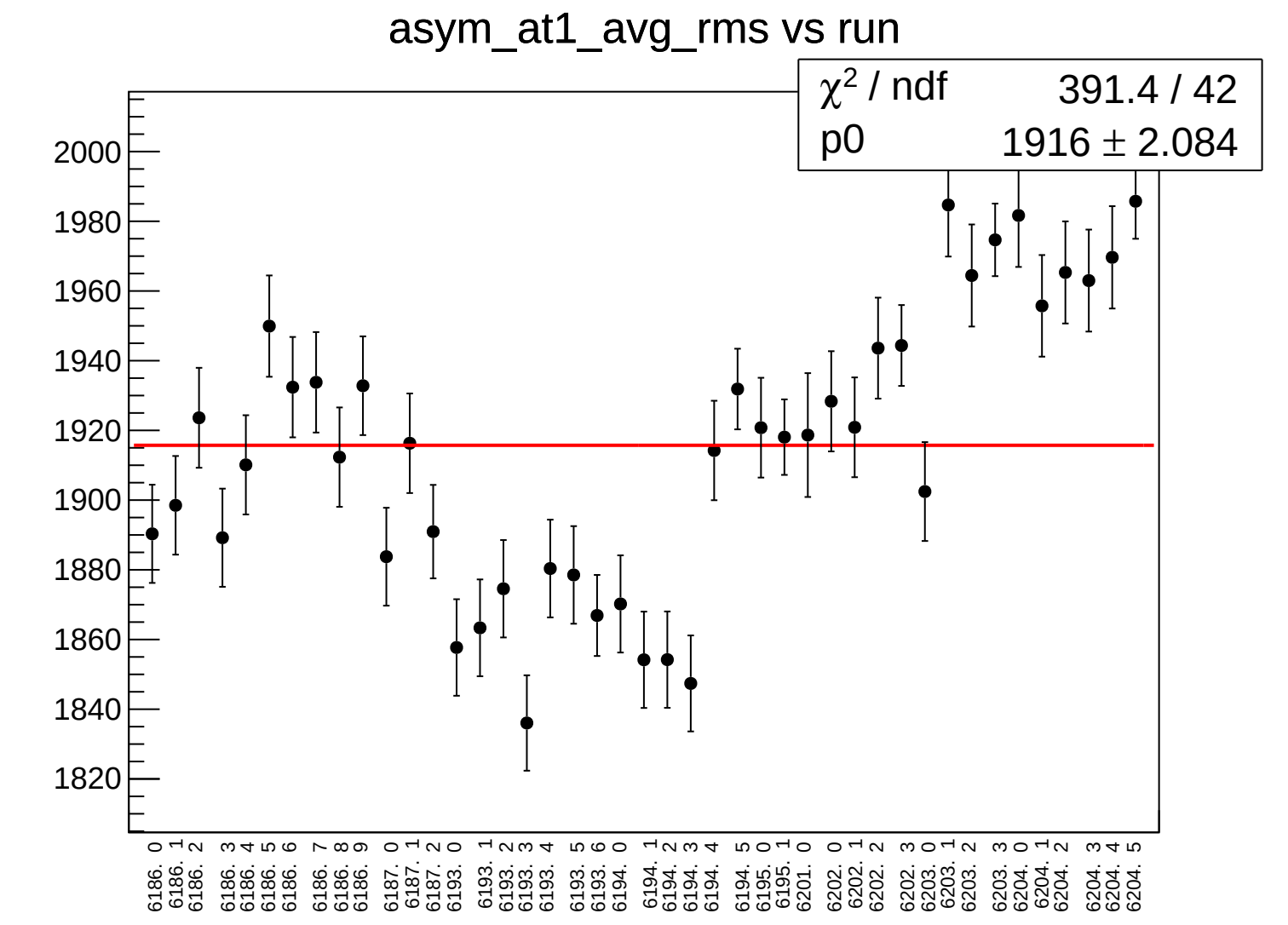

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 65.09 / 42
p0 756.8 ± 737.8
40000
30000
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 112.3
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

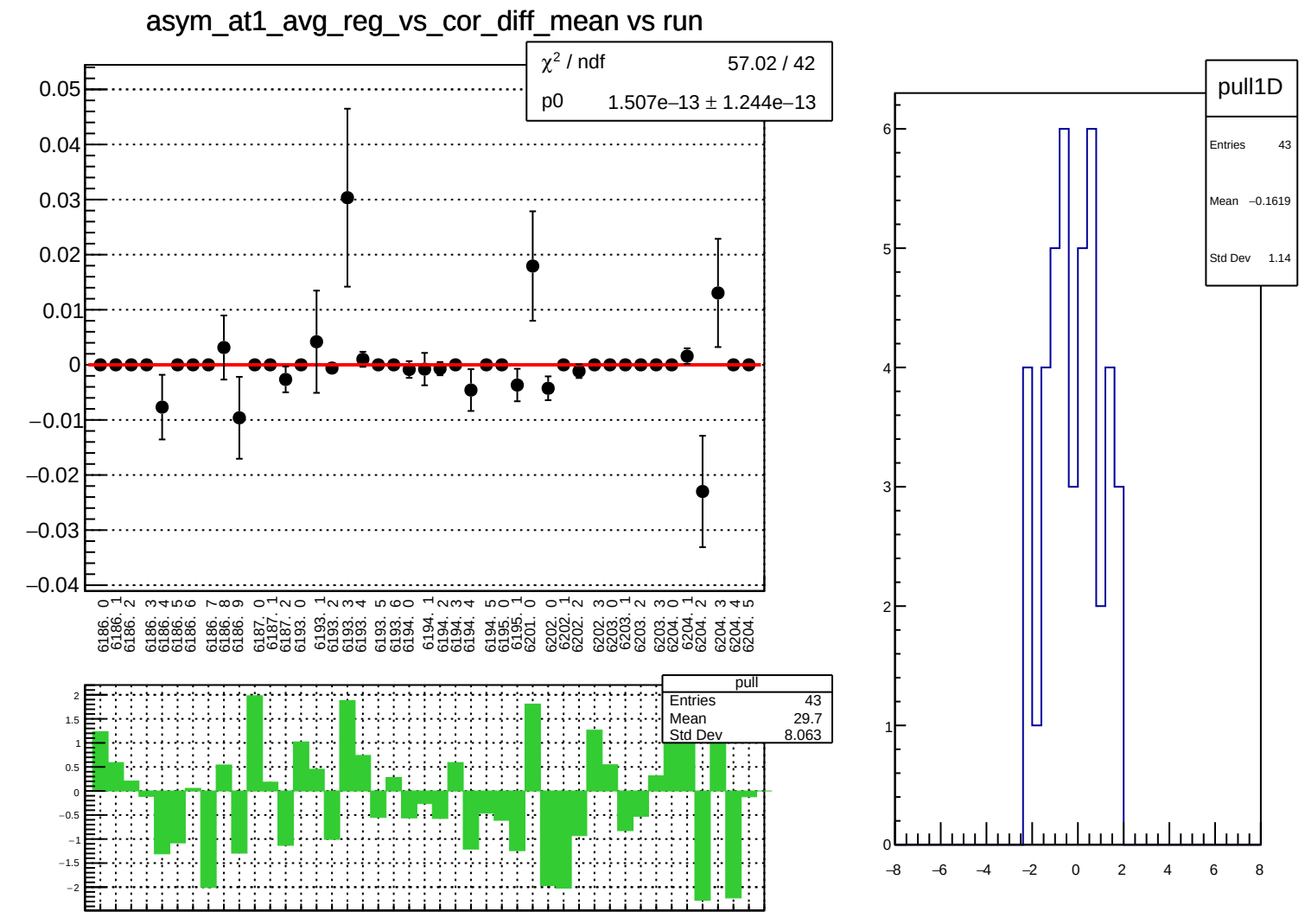

pull1D
Entries 43
Mean 0.01546
Std Dev 1.23
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

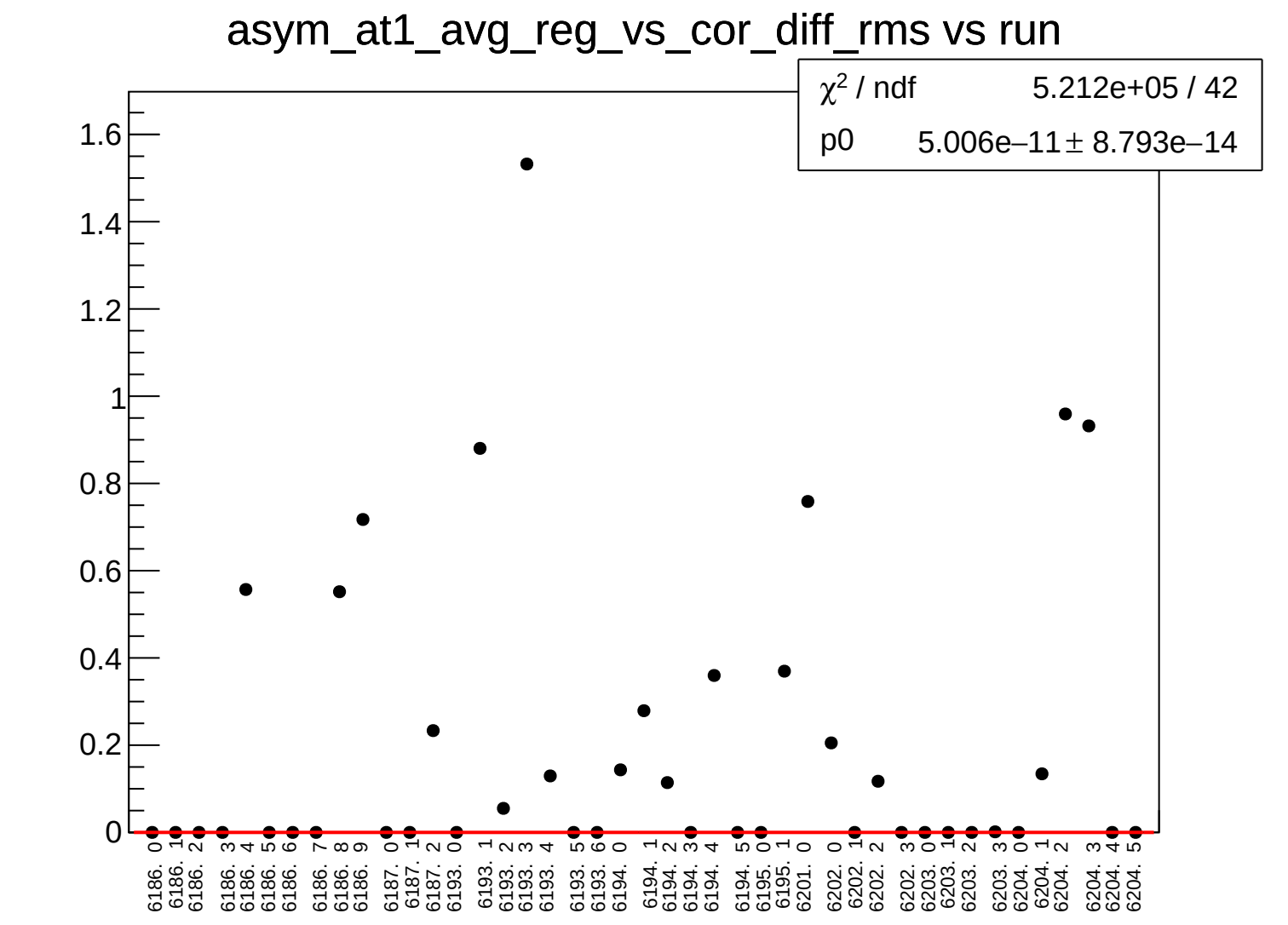

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3757 / 42
p0 478.6 ± 0.5217
540
520
500
480
460
440
420
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

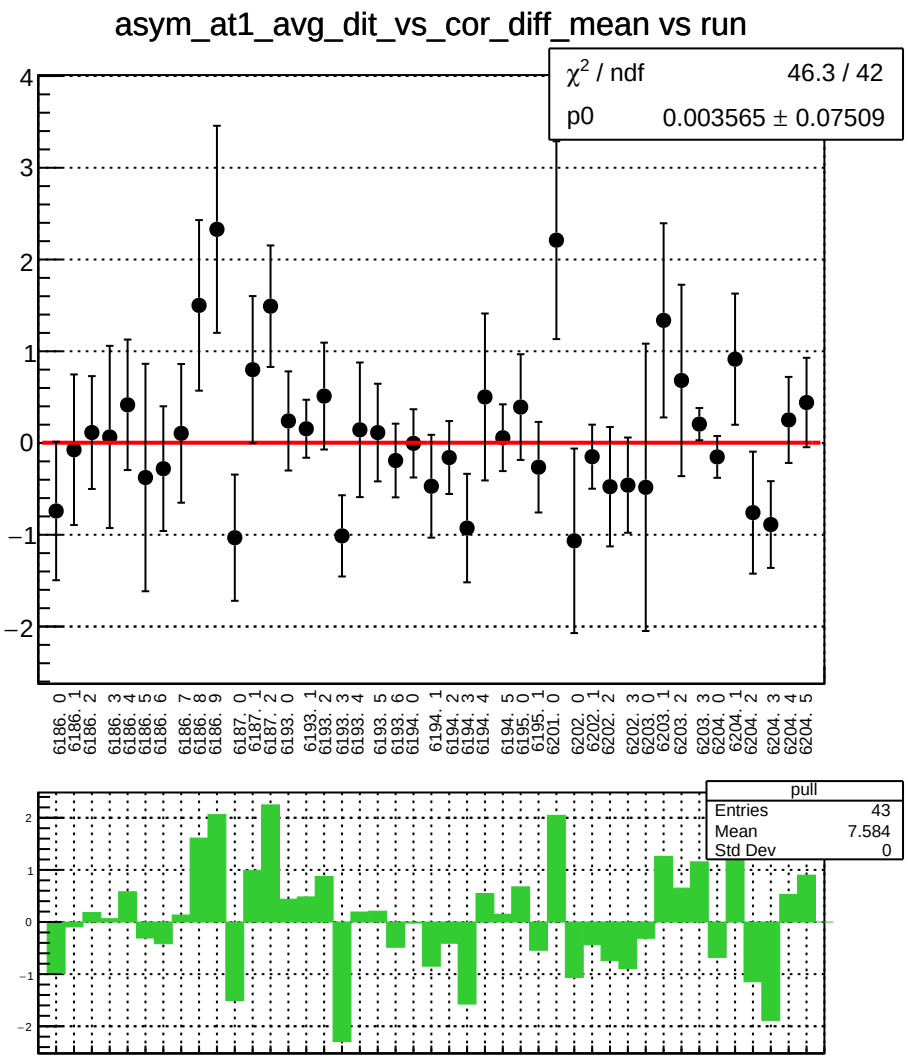

asym_at1_avg_mean vs run
χ² / ndf 35.95 / 42
p0 −4772 ± 2947
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 888.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

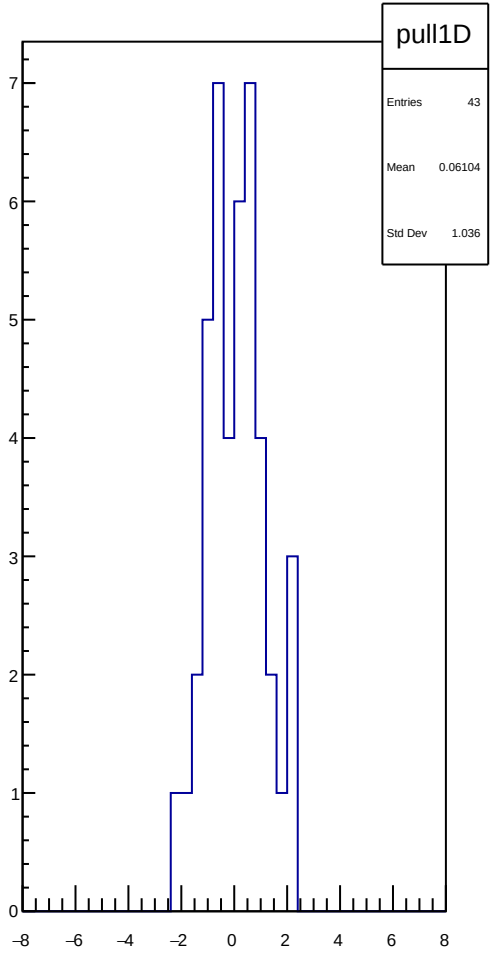

pull1D
Entries 43
Mean −0.00562
Std Dev 0.9143
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

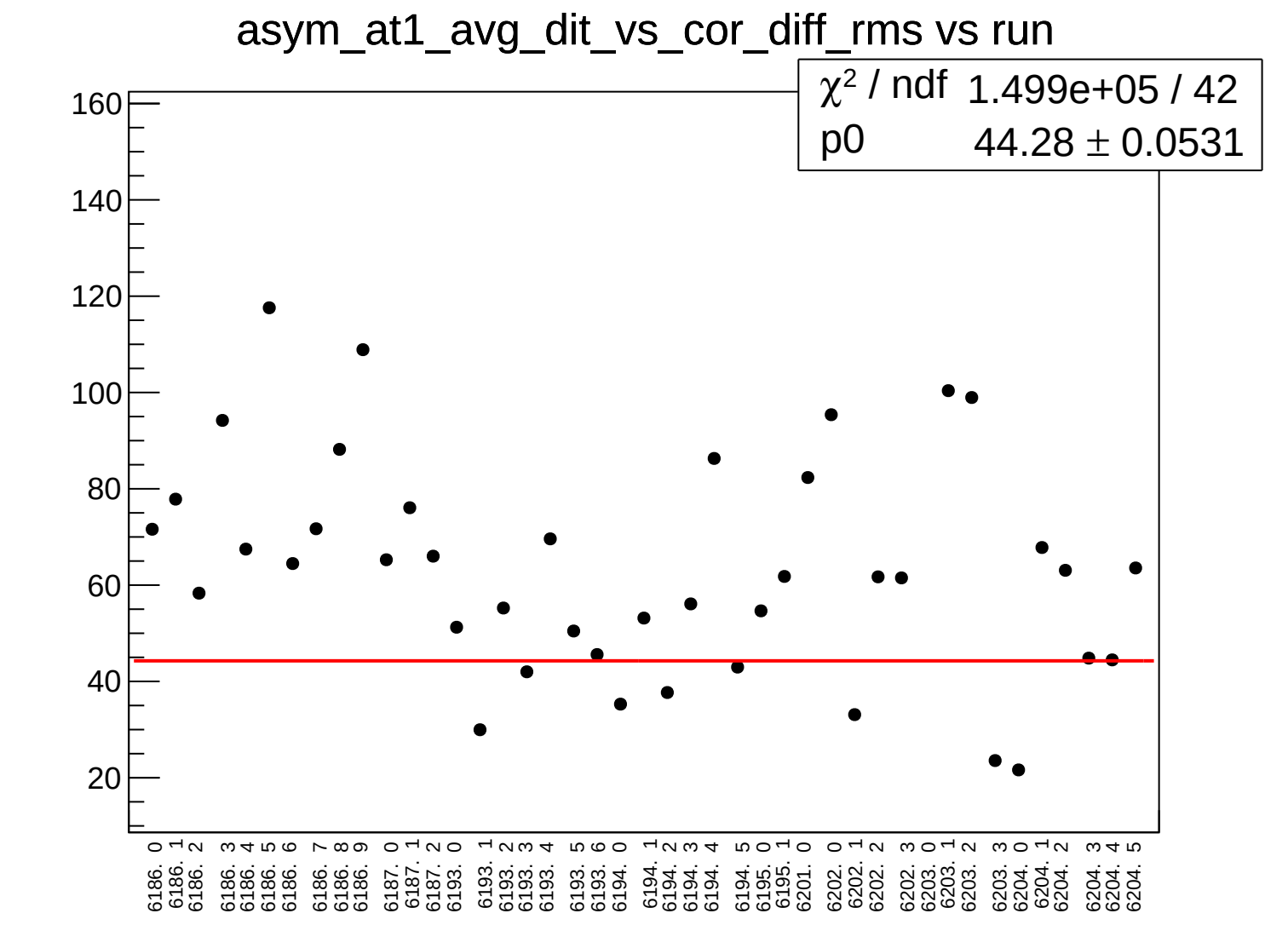

asym_at1_avg_rms vs run
χ² / ndf 391.4 / 42
p0 1916 ± 2.084
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

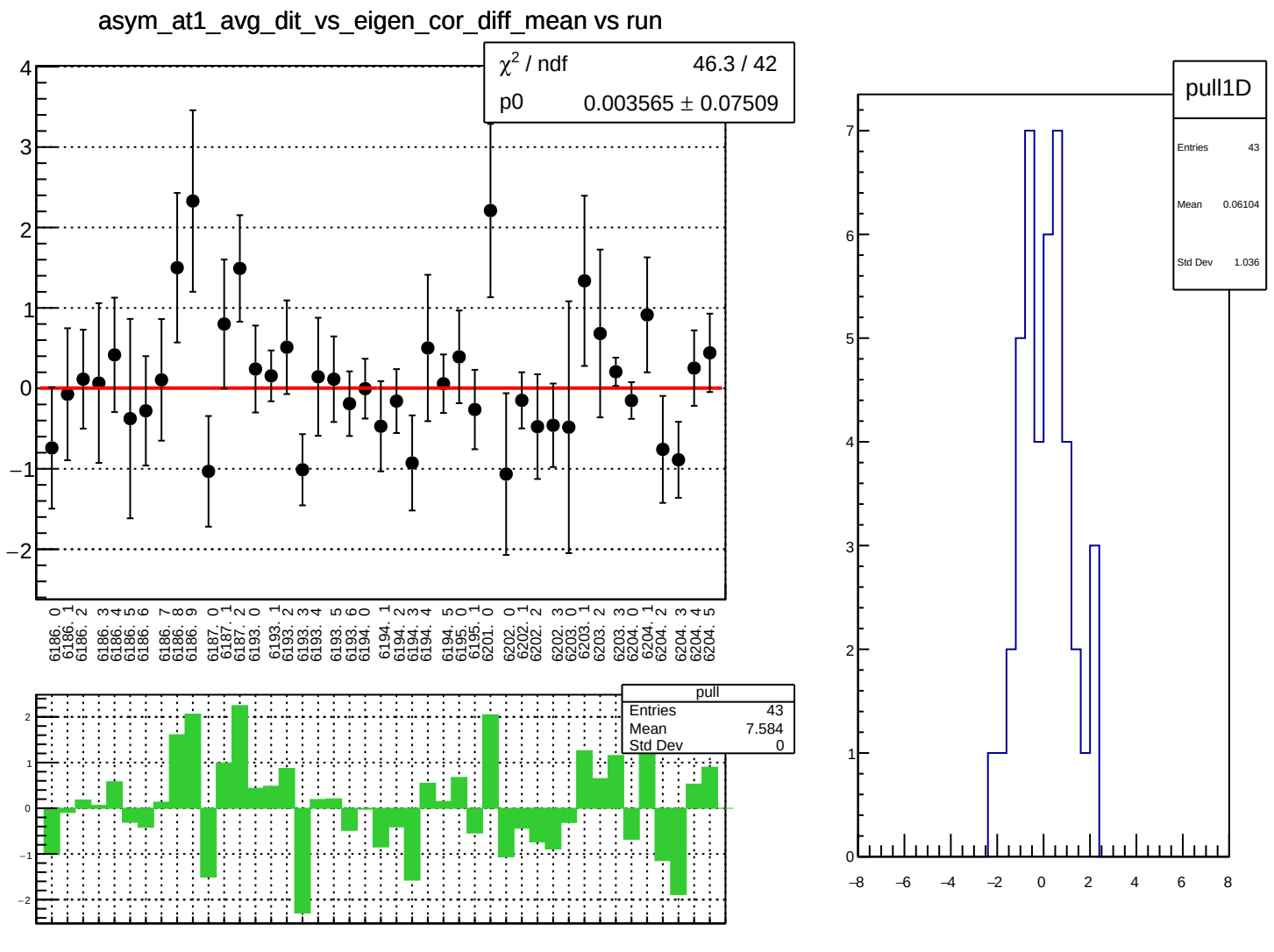

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 57.02 / 42
p0 1.507e−13 ± 1.244e−13
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 29.7
Std Dev 8.063
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1619
Std Dev 1.14
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

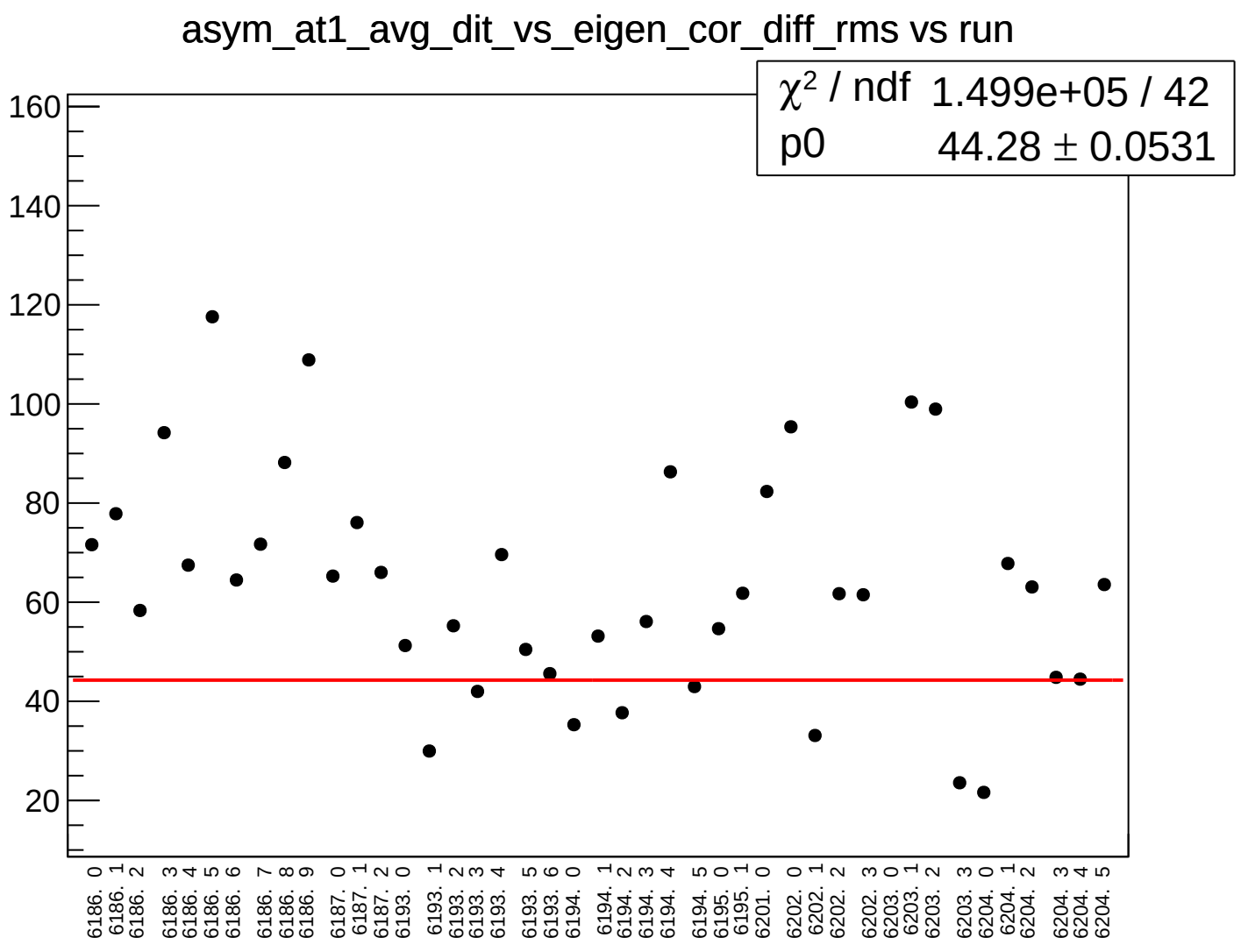

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 5.212e+05 / 42
p0 5.006e−11 ± 8.793e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

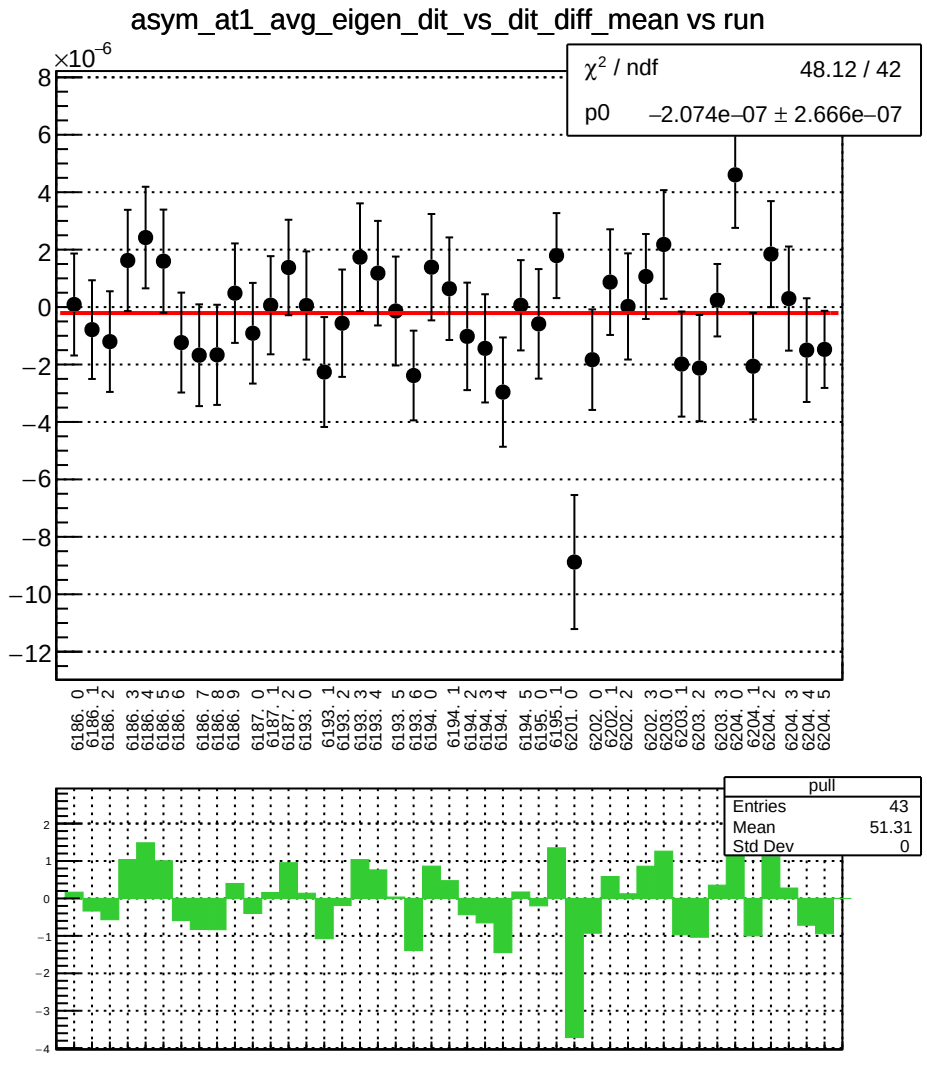

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 46.3 / 42
p0 0.003565 ± 0.07509
pull
Entries 43
Mean 7.584
Std Dev 0

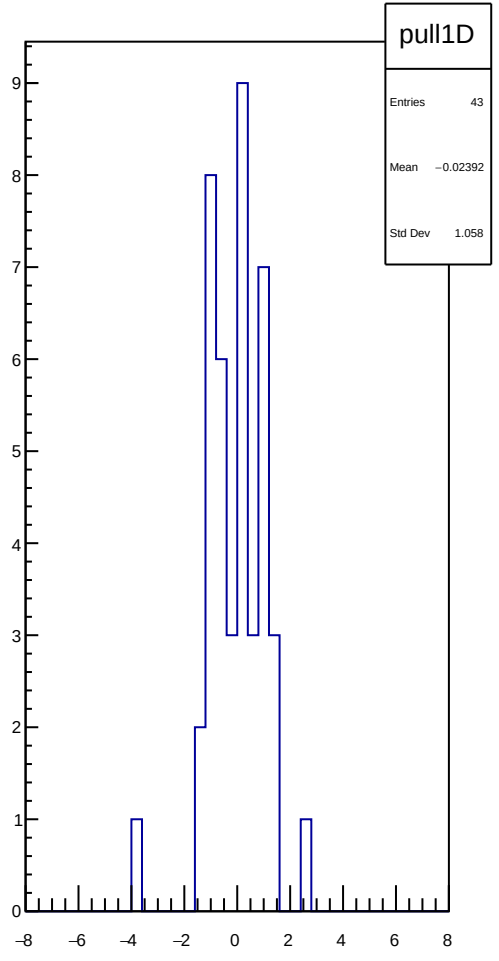

pull1D
Entries 43
Mean 0.06104
Std Dev 1.036

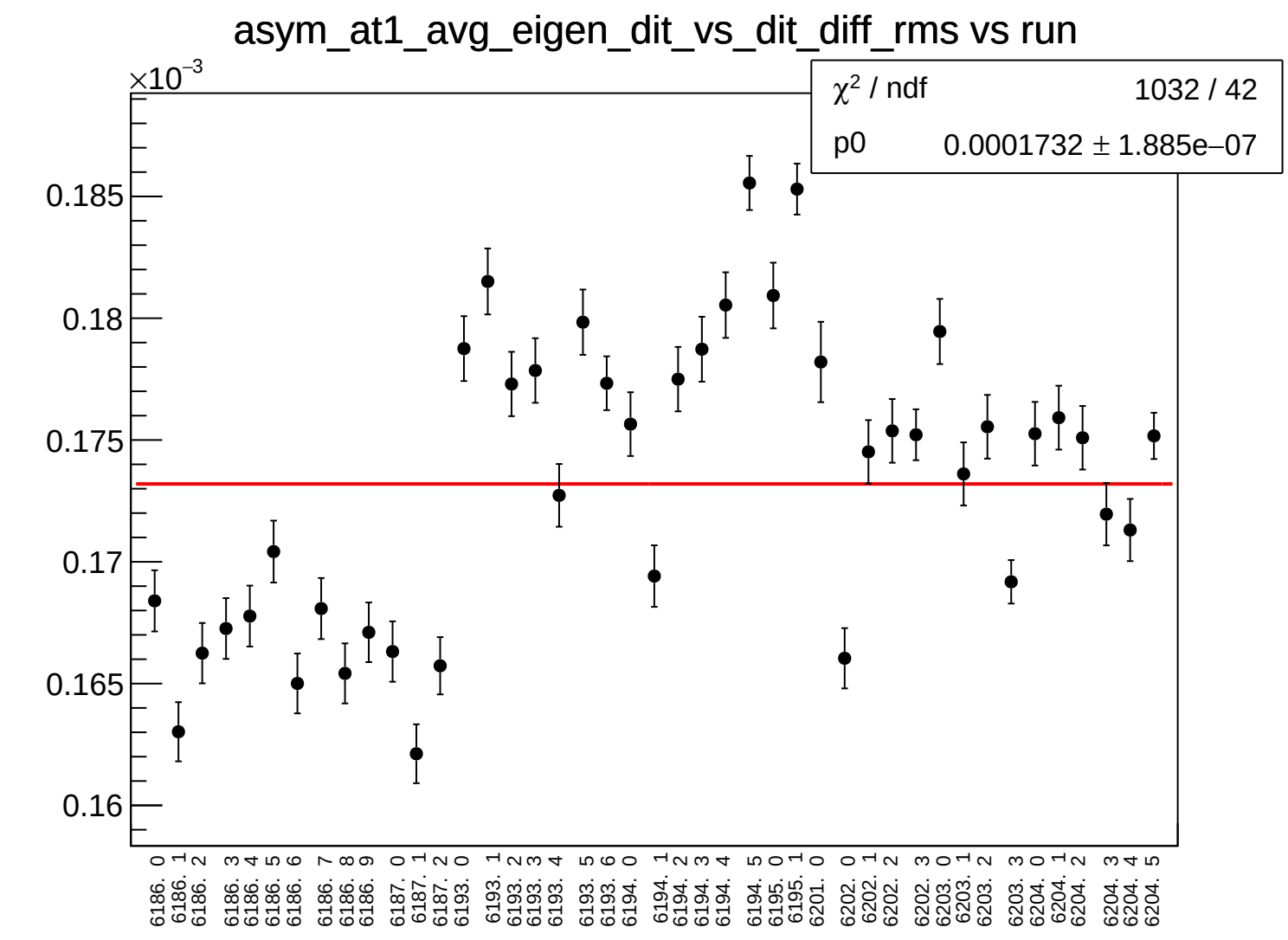

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.499e+05 / 42
p0 44.28 ± 0.0531
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

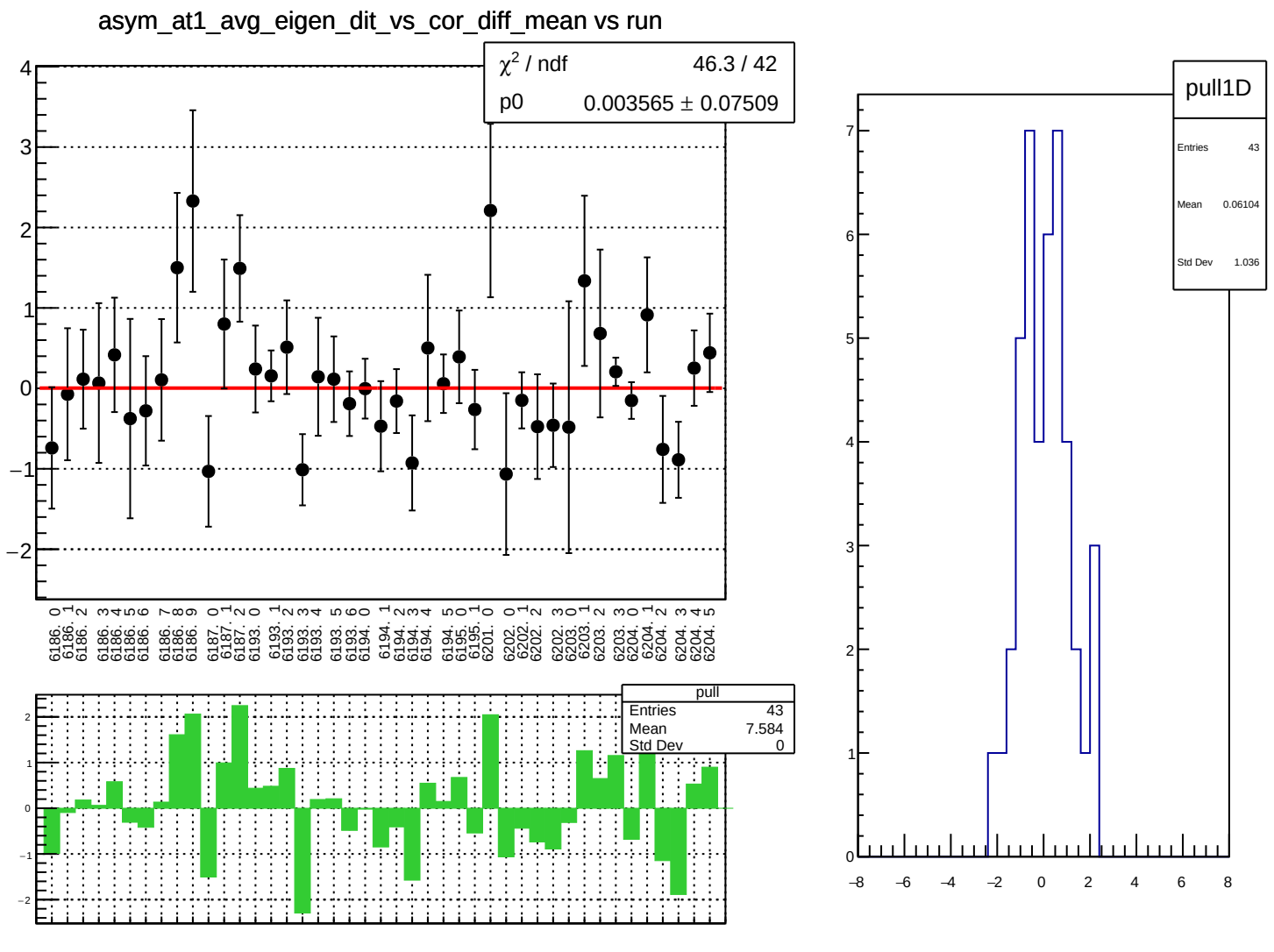

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.3 / 42
p0 0.003565 ± 0.07509
pull
Entries 43
Mean 7.584
Std Dev 0
pull1D
Entries 43
Mean 0.06104
Std Dev 1.036

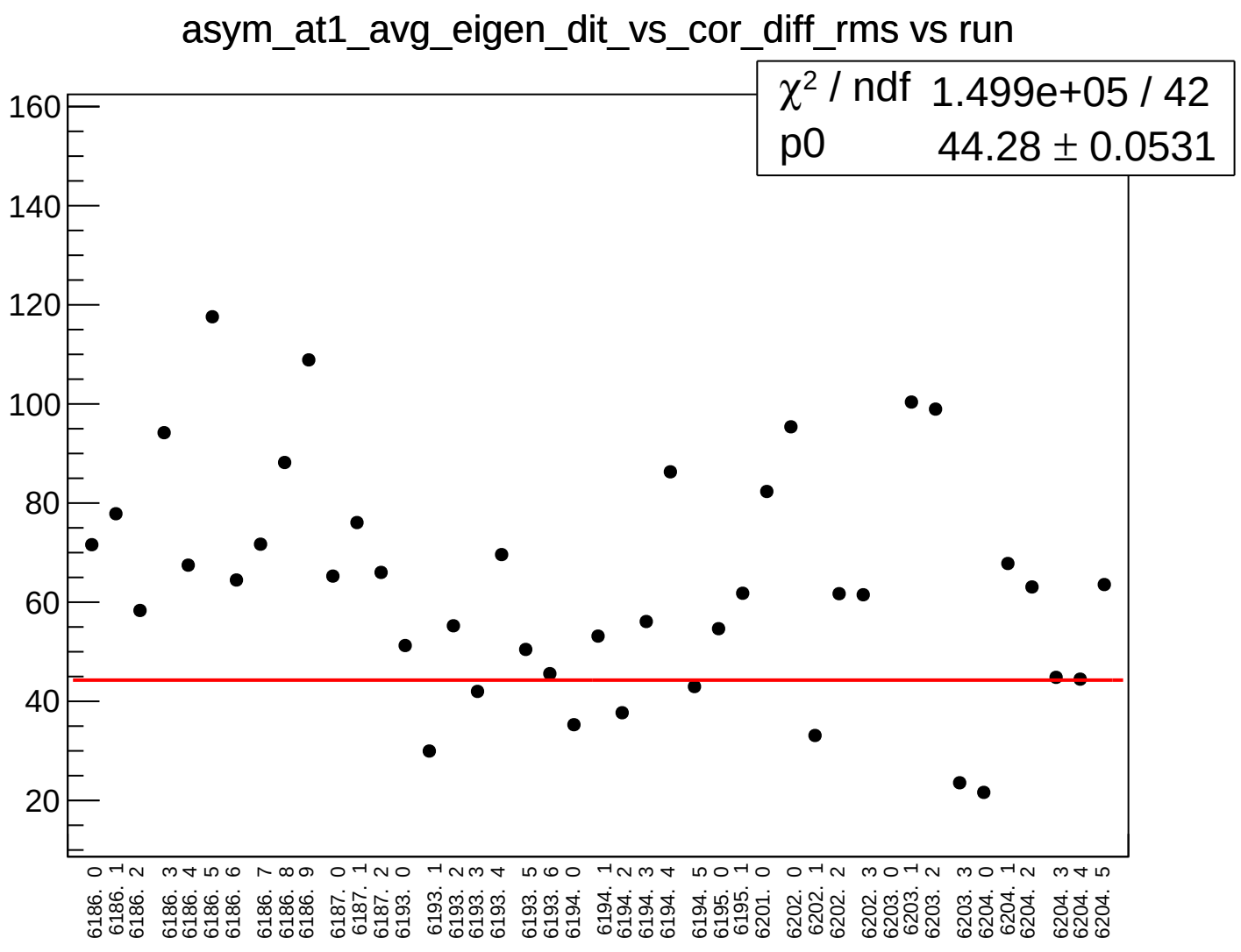

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.499e+05 / 42
p0 44.28 ± 0.0531
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

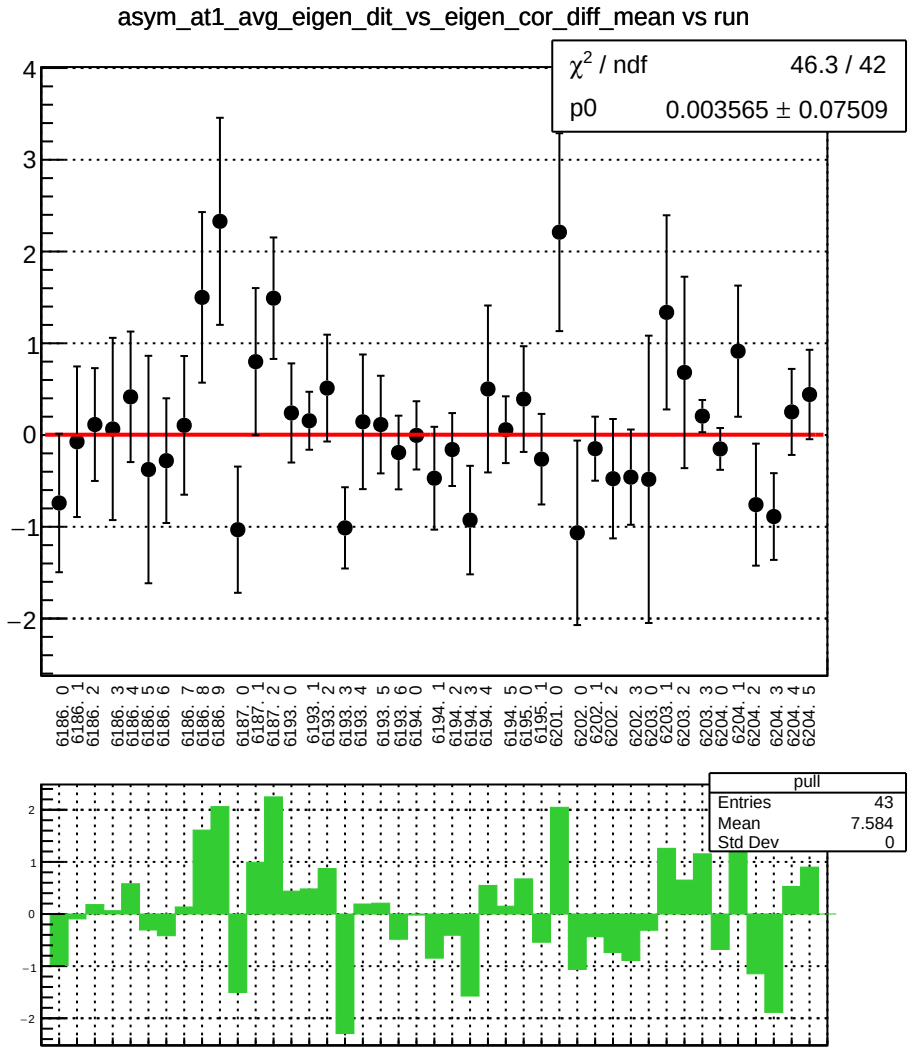

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 48.12 / 42
p0 −2.074e−07 ± 2.666e−07
pull
Entries 43
Mean 51.31
Std Dev 0

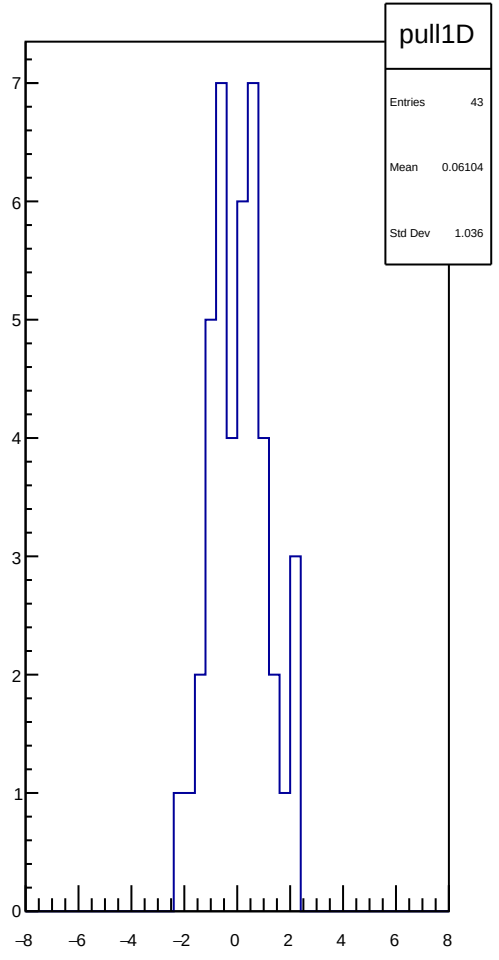

pull1D
Entries 43
Mean −0.02392
Std Dev 1.058

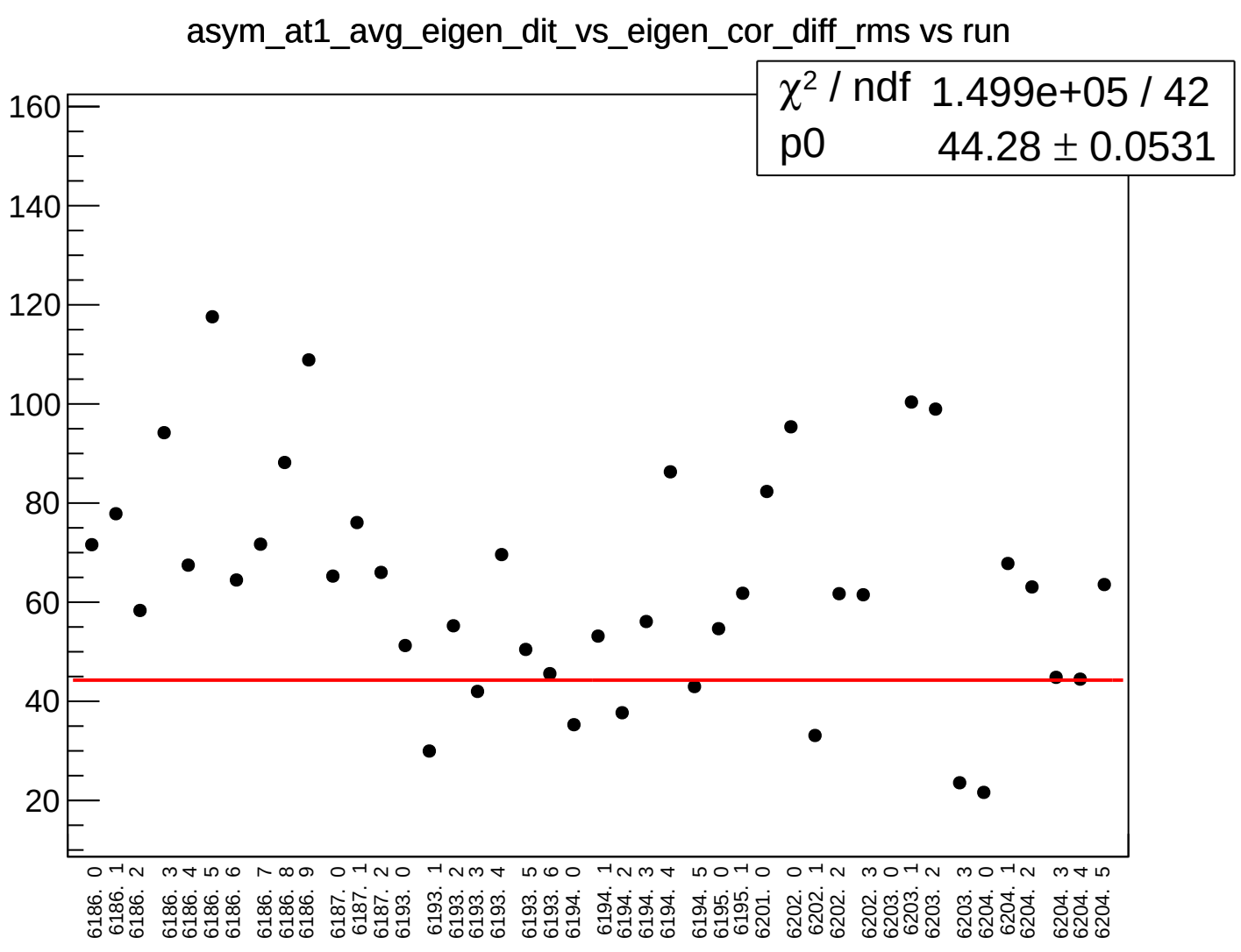

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1032 / 42
p0 0.0001732 ± 1.885e−07
0.185
0.18
0.175
0.17
0.165
0.16
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

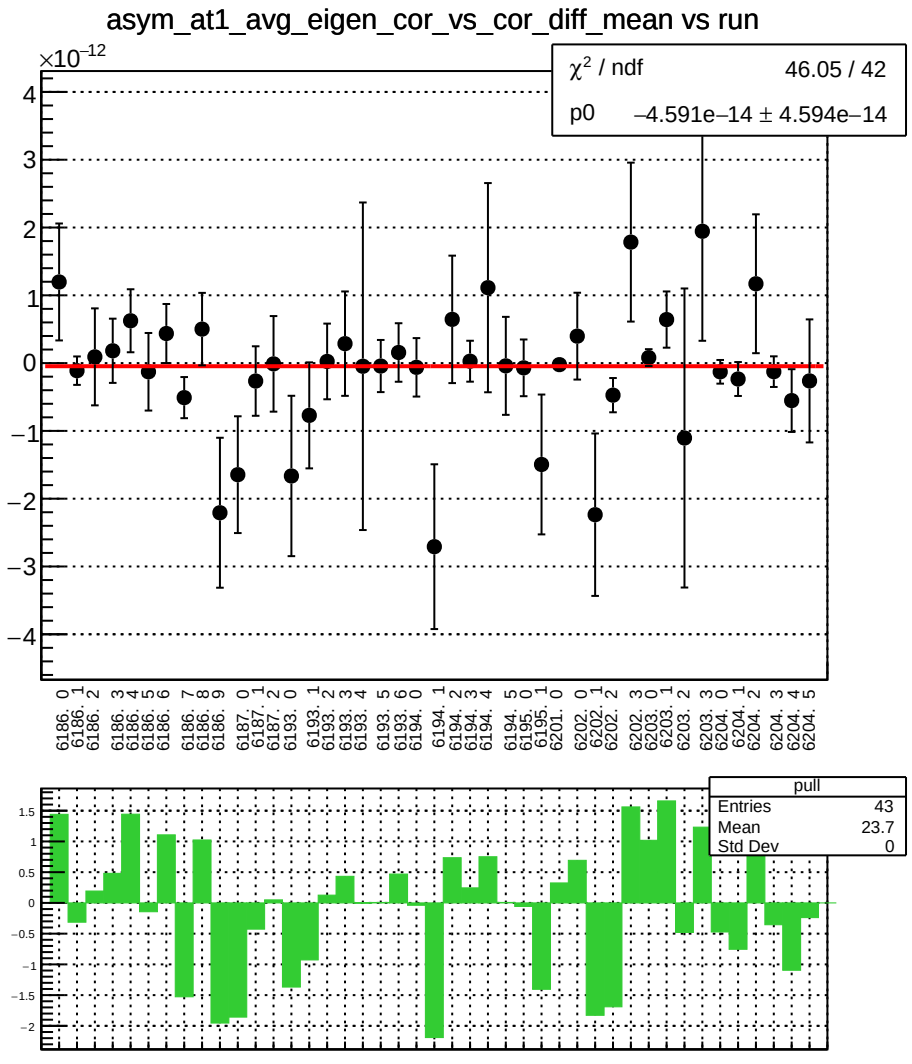

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.3 / 42
p0 0.003565 ± 0.07509
pull
Entries 43
Mean 7.584
Std Dev 0
pull1D
Entries 43
Mean 0.06104
Std Dev 1.036

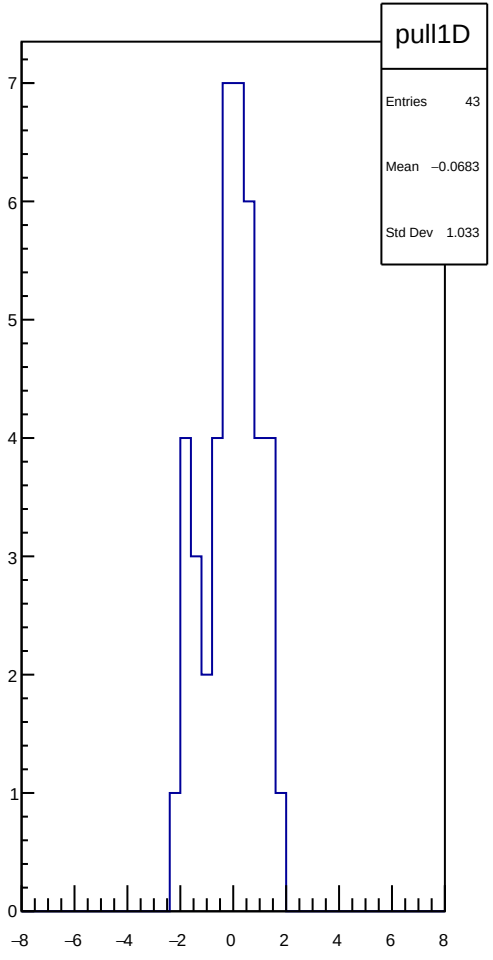

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.499e+05 / 42
p0 44.28 ± 0.0531
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

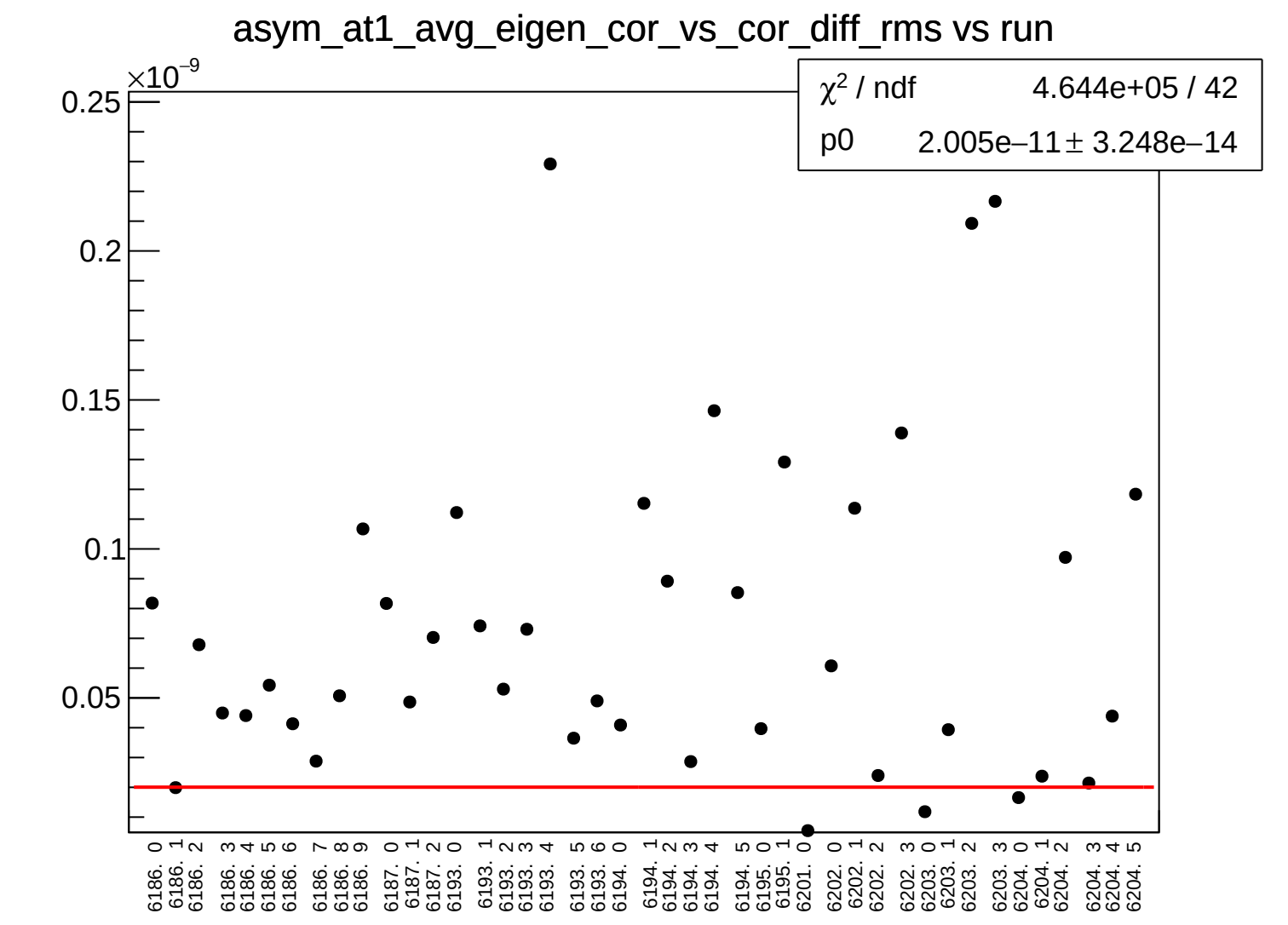

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.3 / 42
p0 0.003565 ± 0.07509
pull
Entries 43
Mean 7.584
Std Dev 0

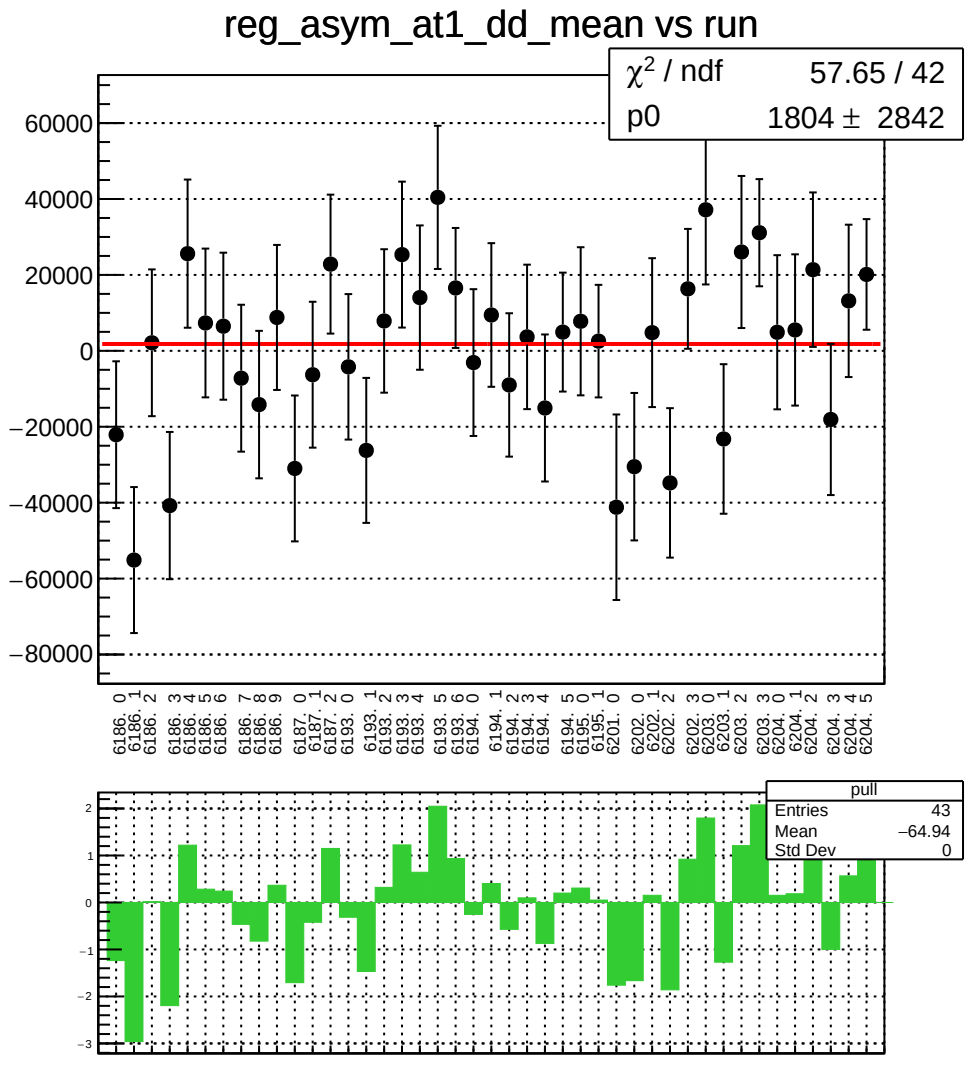

pull1D
Entries 43
Mean 0.06104
Std Dev 1.036

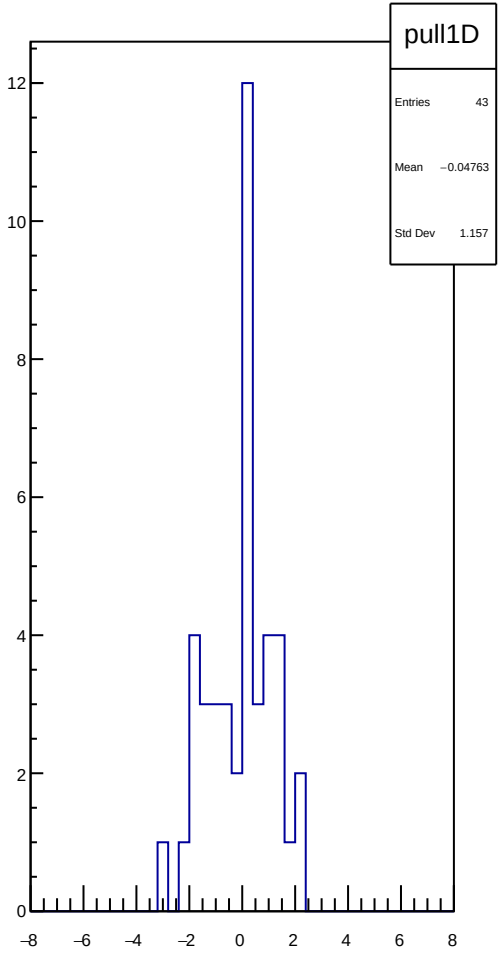

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.499e+05 / 42
p0 44.28 ± 0.0531
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

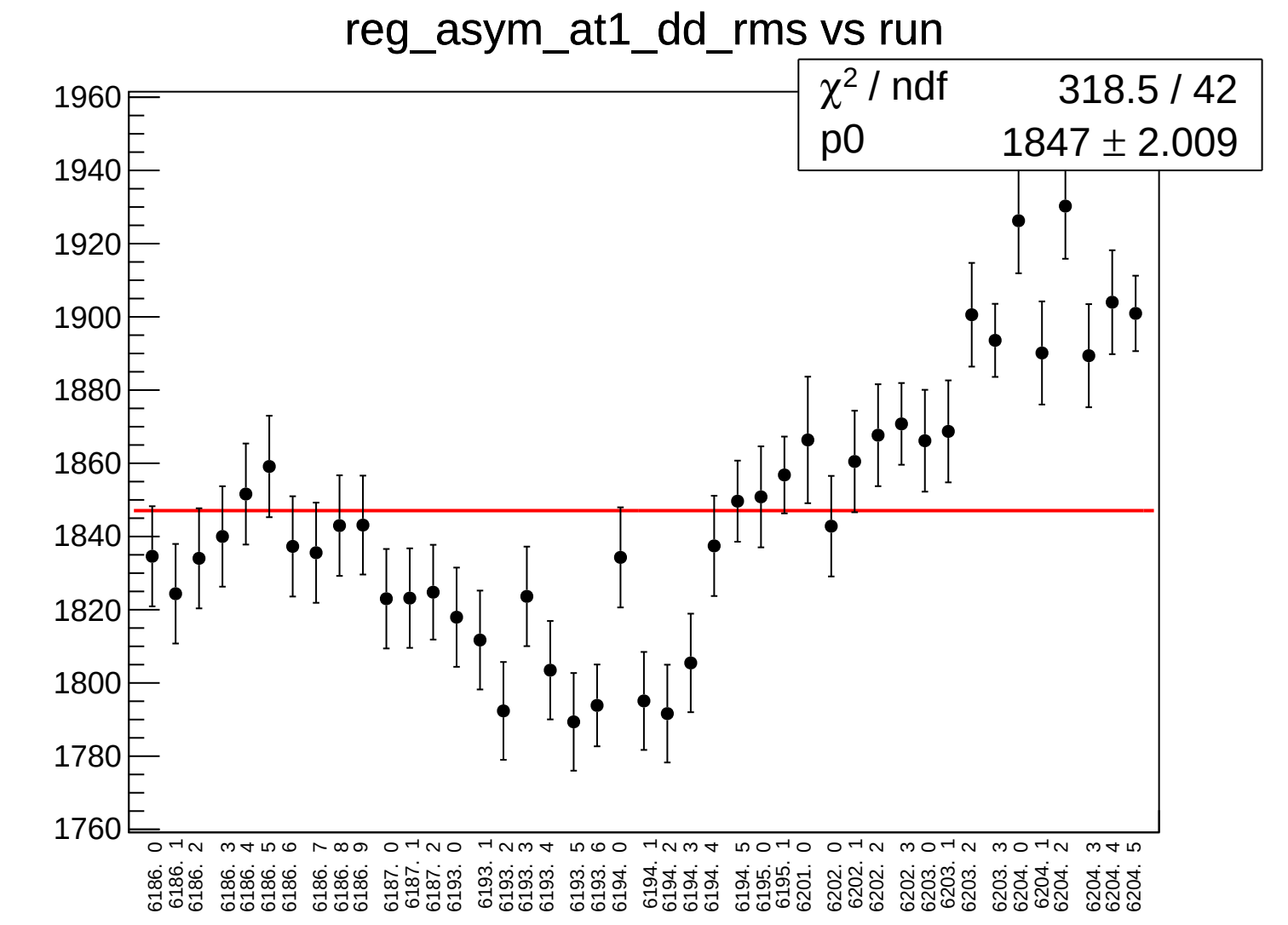

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 46.05 / 42
p0 −4.591e−14 ± 4.594e−14
pull
Entries 43
Mean 23.7
Std Dev 0

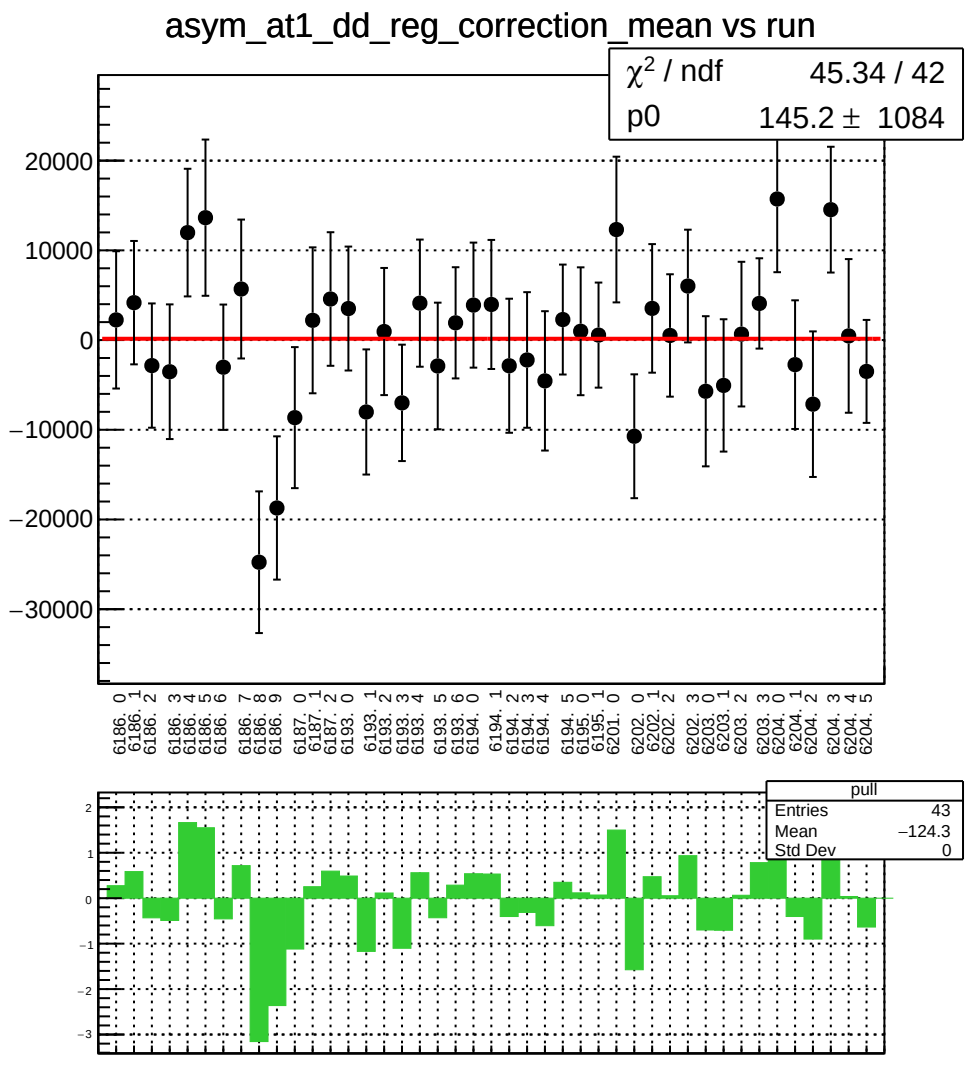

pull1D
Entries 43
Mean −0.0683
Std Dev 1.033

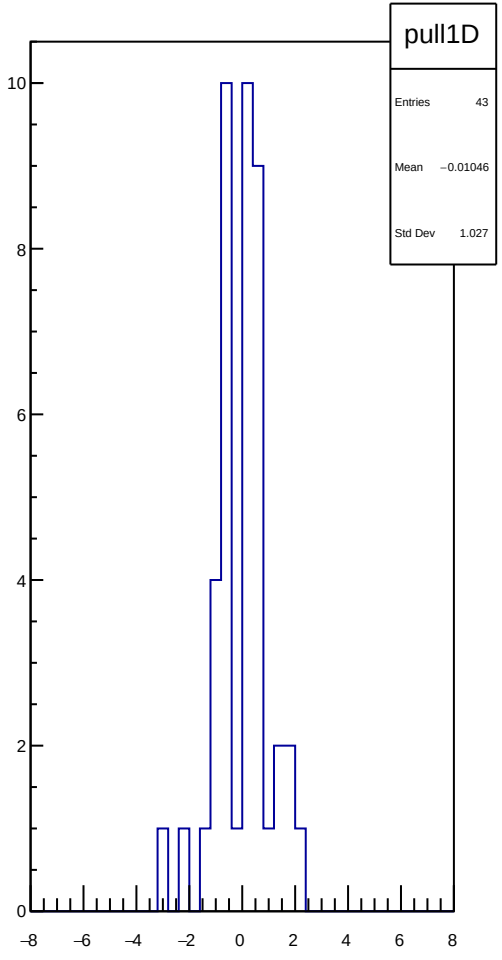

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.644e+05 / 42
p0 2.005e−11 ± 3.248e−14
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

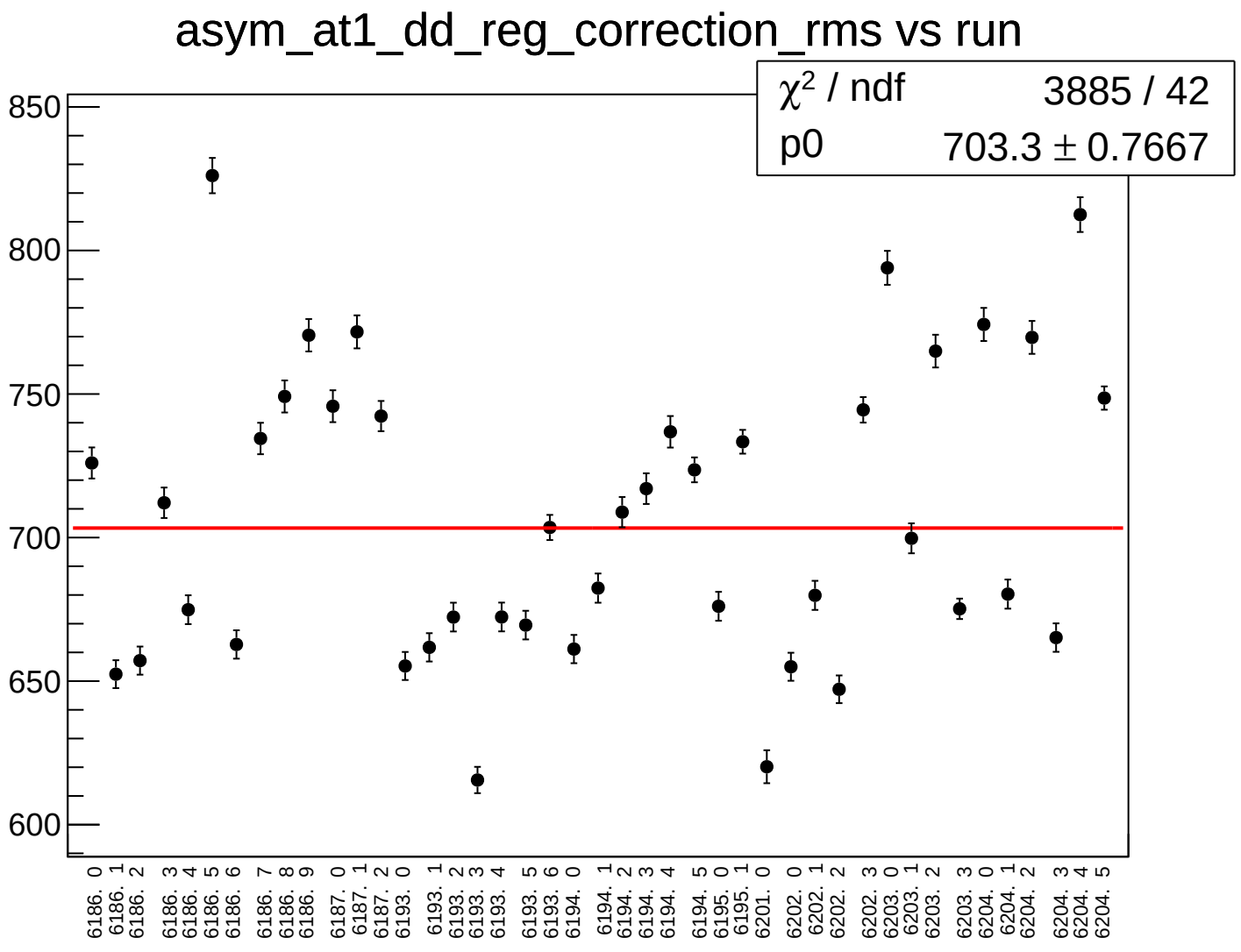

reg_asym_at1_dd_mean vs run
χ² / ndf 57.65 / 42
p0 1804 ± 2842
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −64.94
Std Dev 0
2
1
0
−1
−2
−3

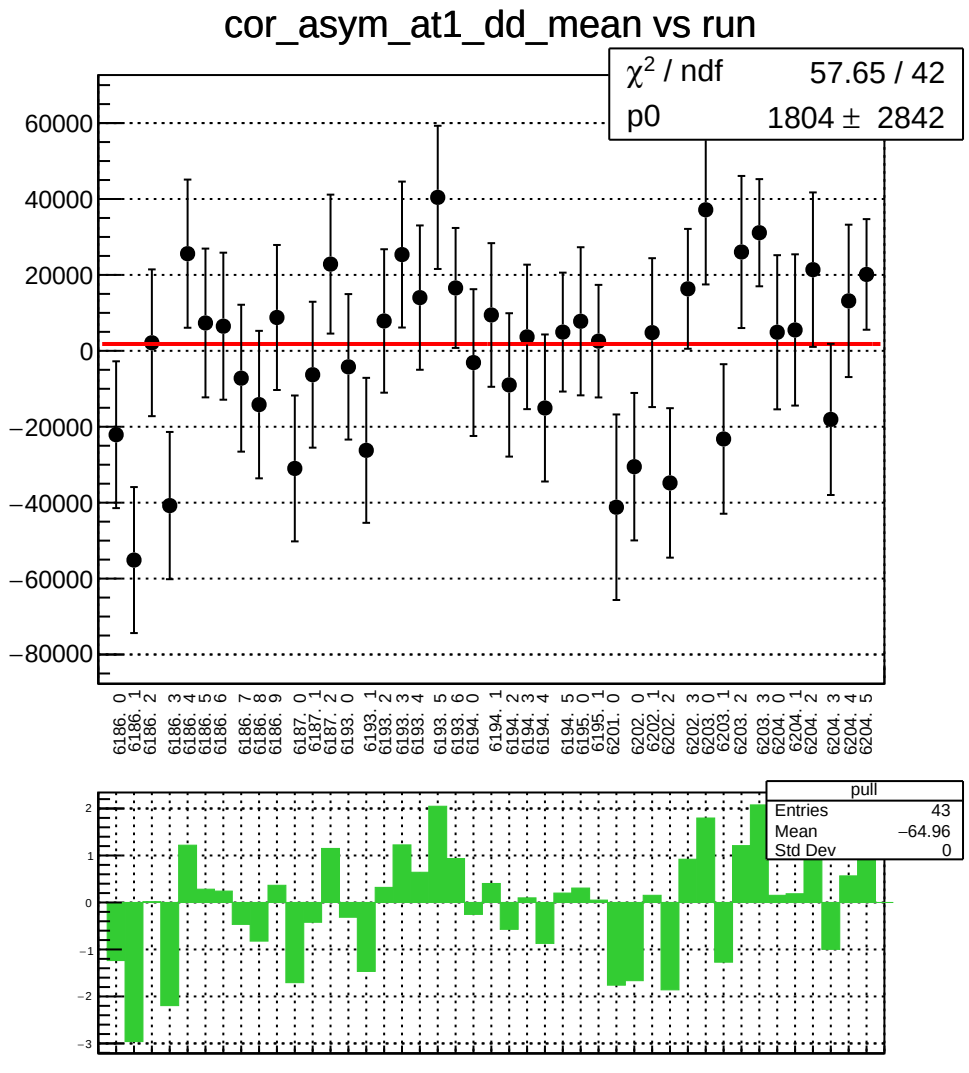

pull1D
Entries 43
Mean −0.04763
Std Dev 1.157
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

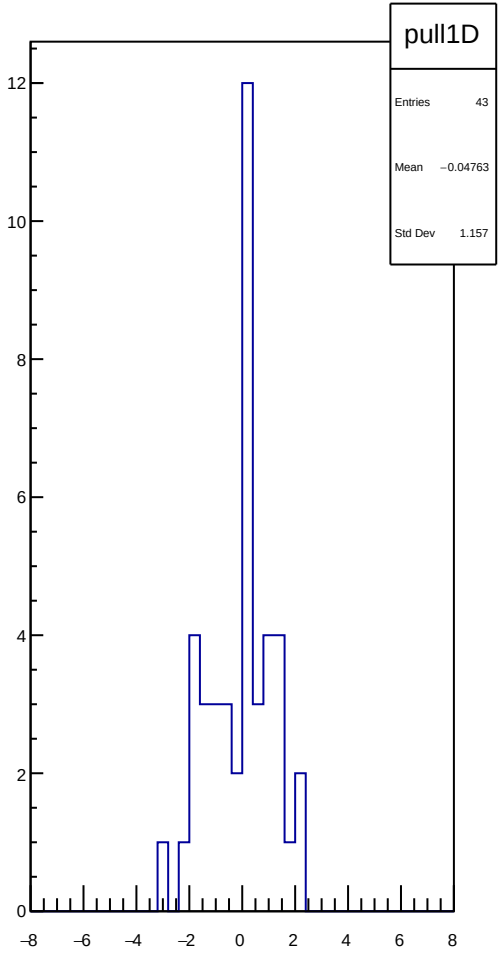

reg_asym_at1_dd_rms vs run
χ² / ndf 318.5 / 42
p0 1847 ± 2.009
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

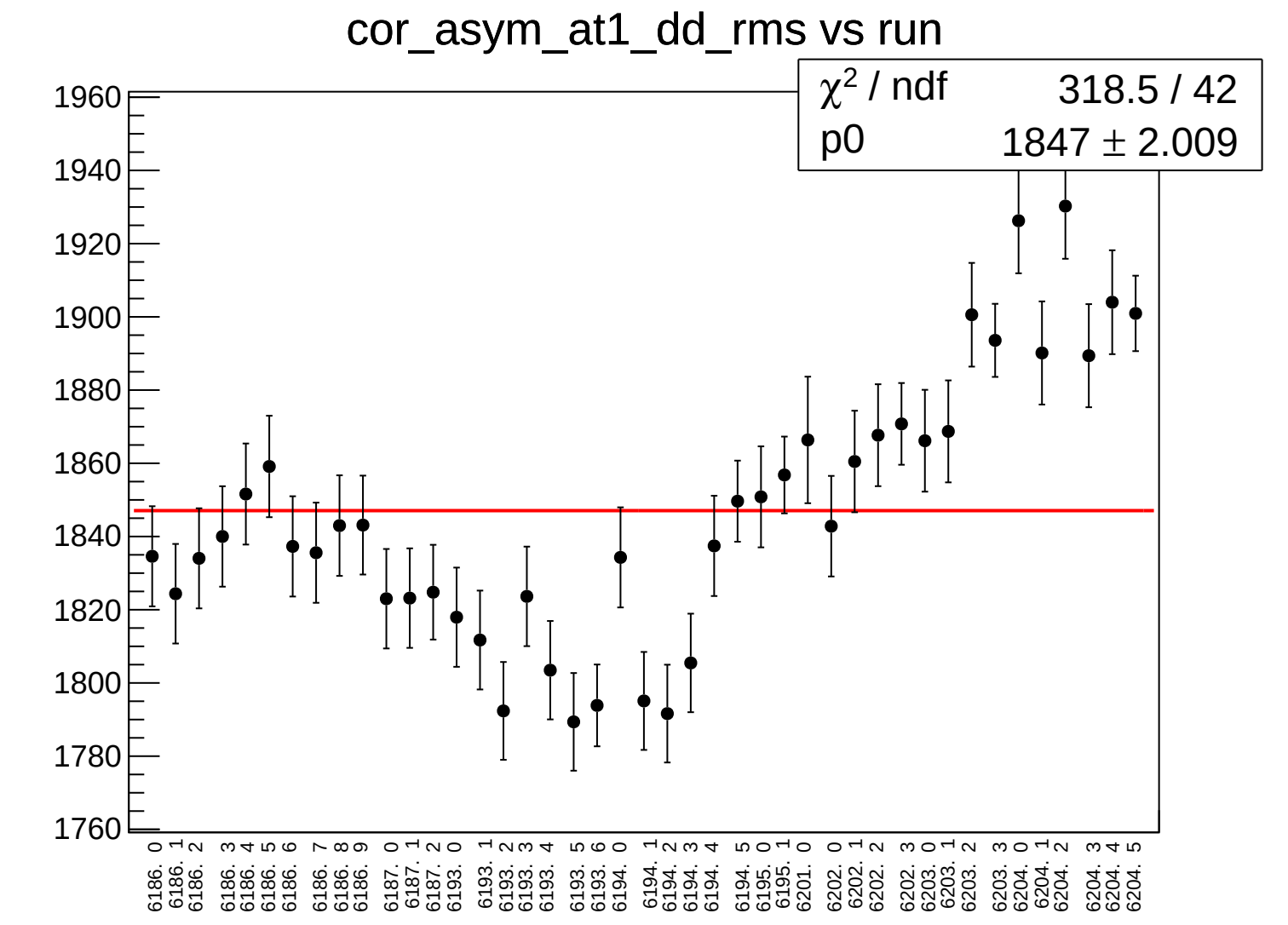

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 45.34 / 42
p0 145.2 ± 1084
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −124.3
Std Dev 0
2
1
0
−1
−2
−3

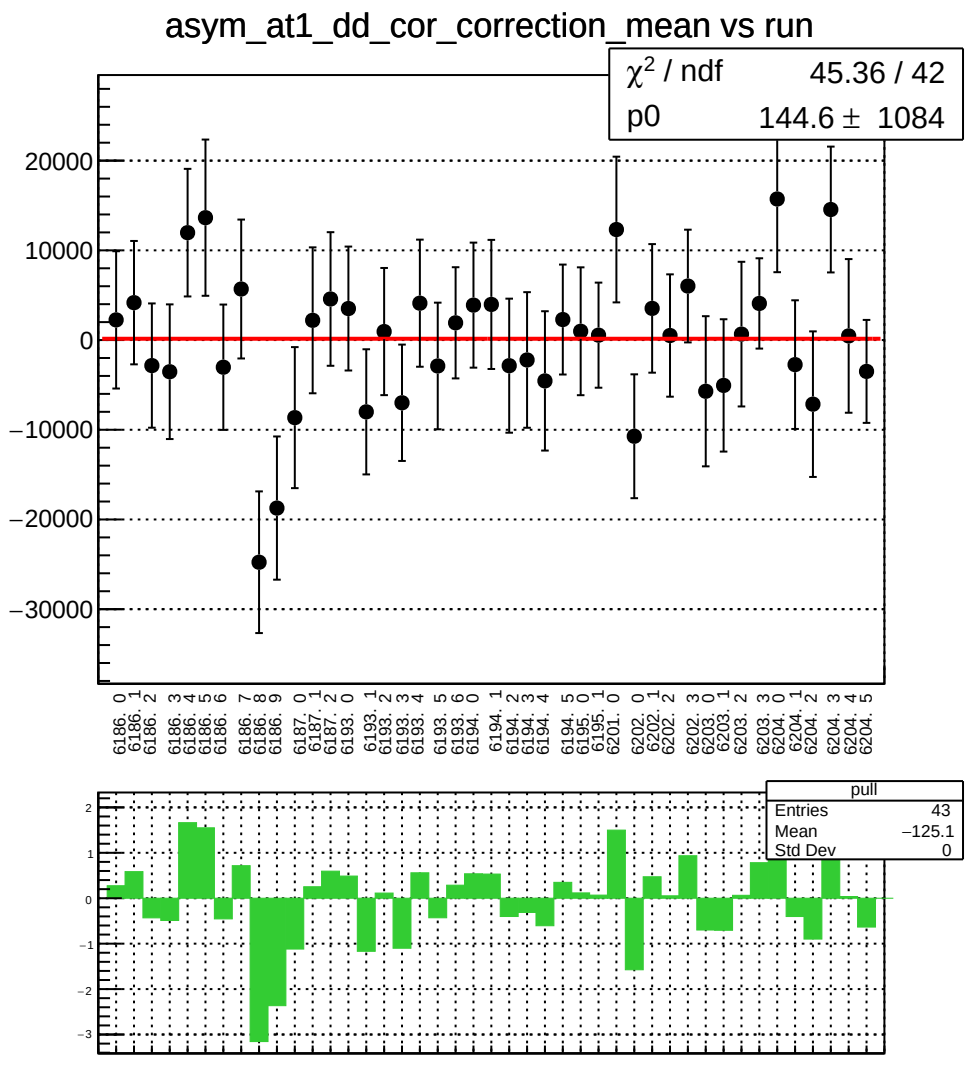

pull1D
Entries 43
Mean −0.01046
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

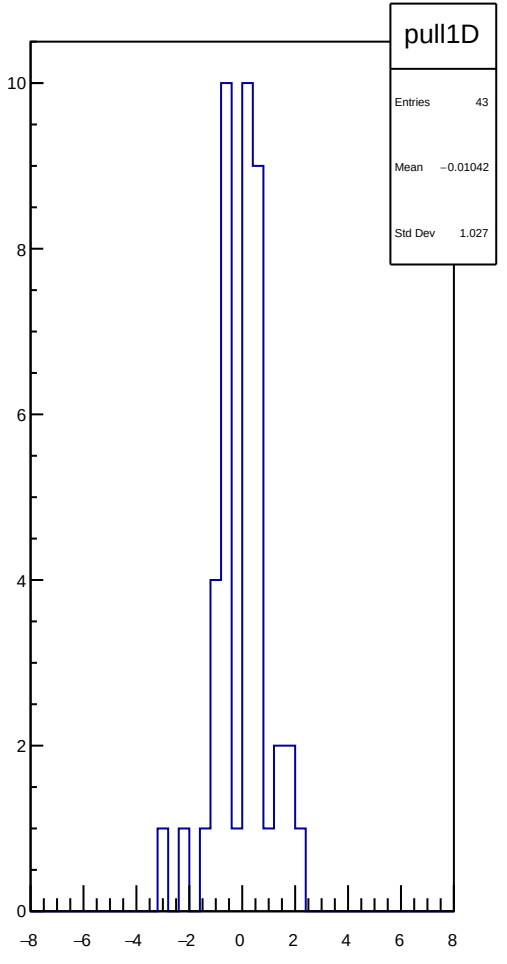

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 3885 / 42
p0 703.3 ± 0.7667
850
800
750
700
650
600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

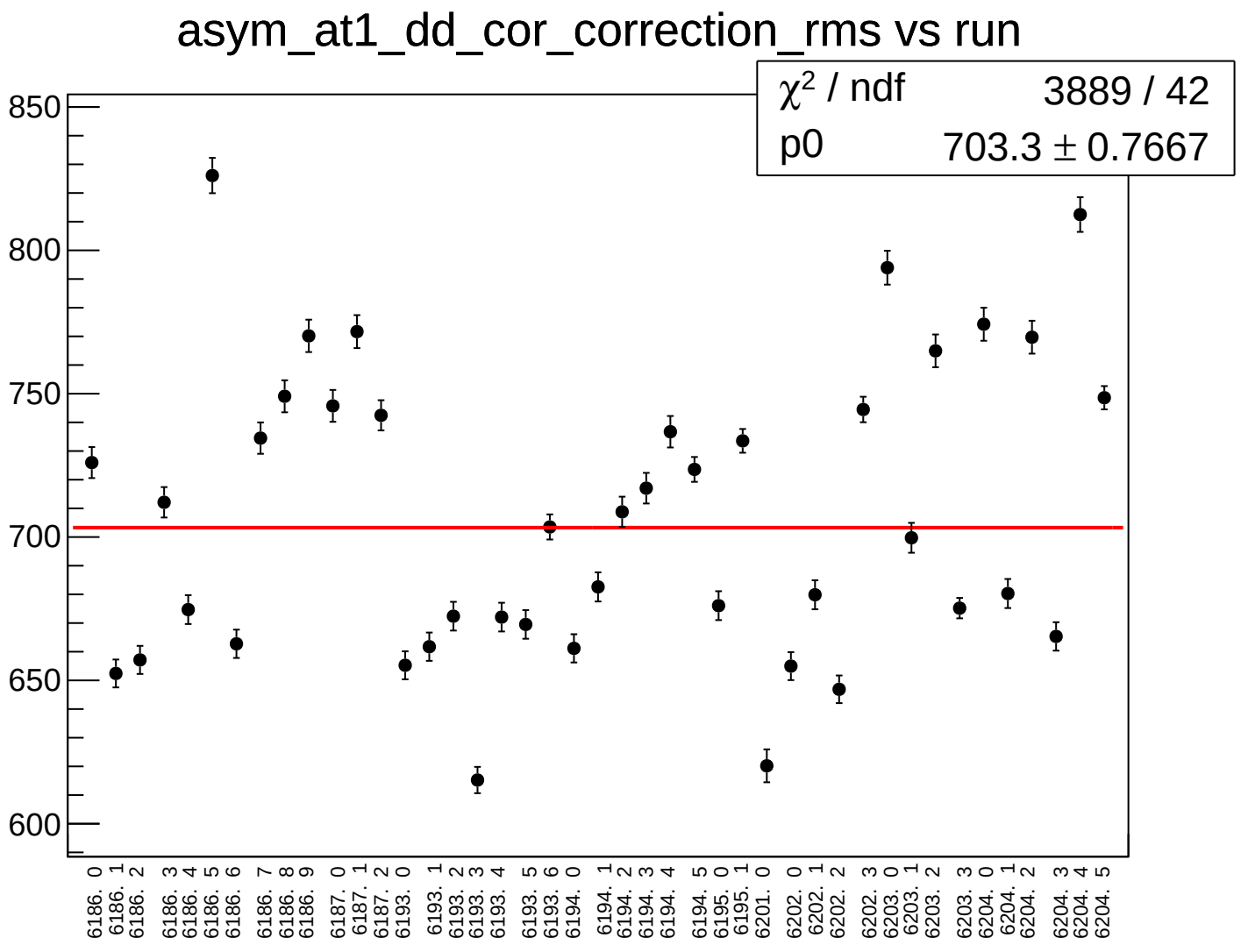

cor_asym_at1_dd_mean vs run
χ² / ndf 57.65 / 42
p0 1804 ± 2842
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −64.96
Std Dev 0
2
1
0
−1
−2
−3

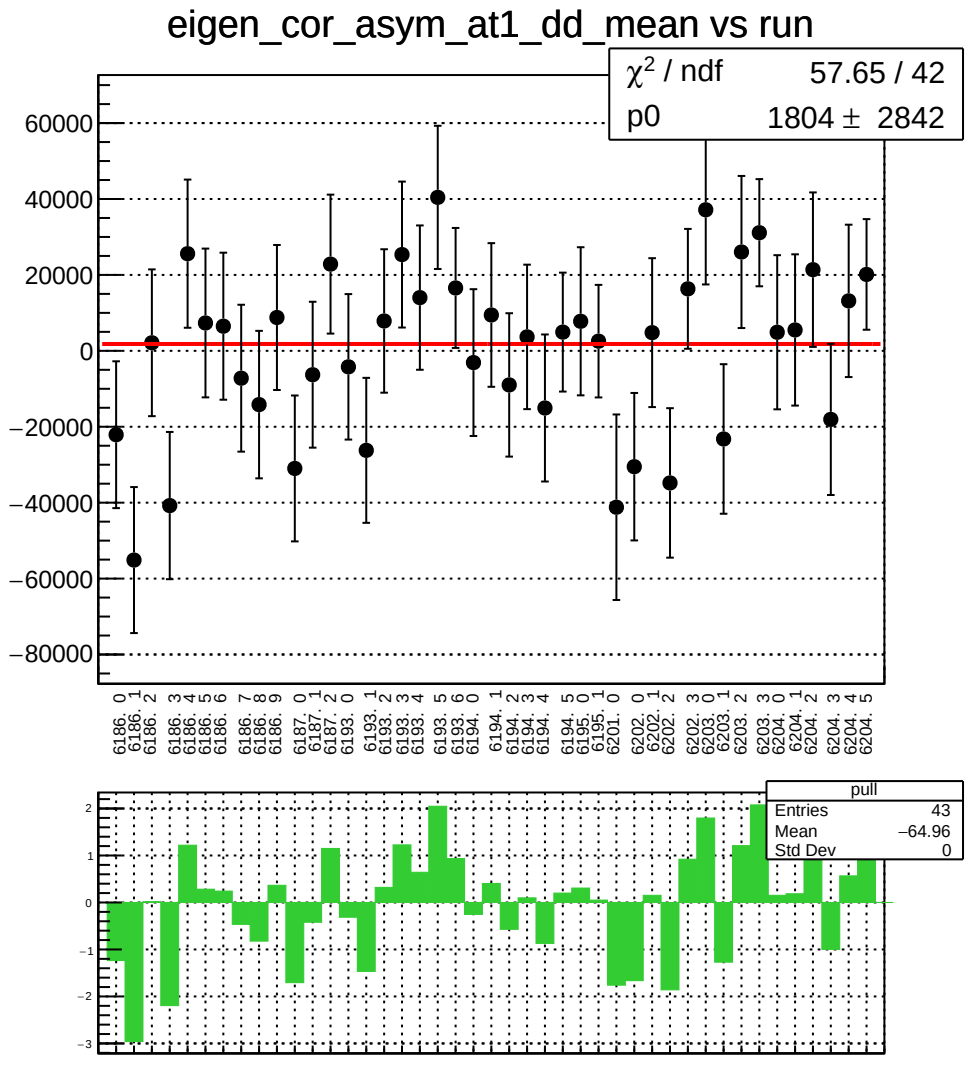

pull1D
Entries 43
Mean −0.04763
Std Dev 1.157
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

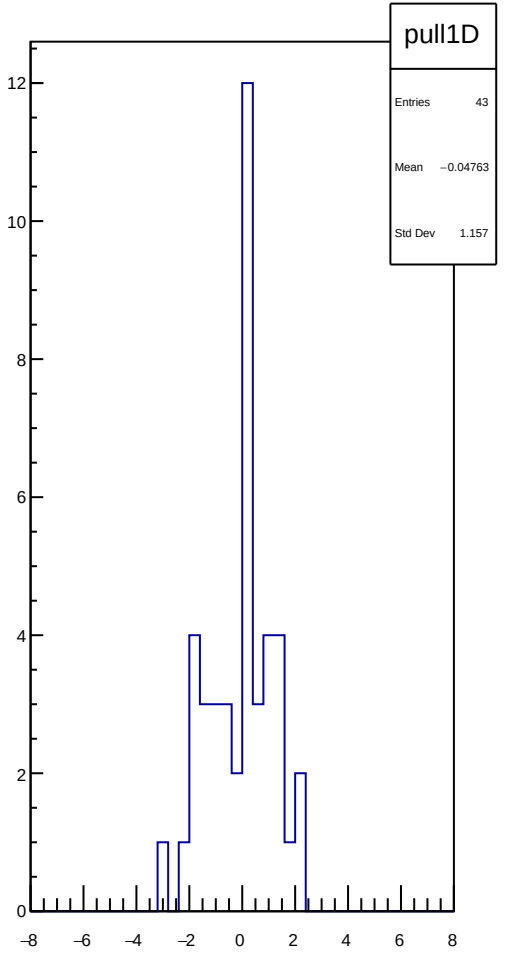

cor_asym_at1_dd_rms vs run
χ² / ndf 318.5 / 42
p0 1847 ± 2.009
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

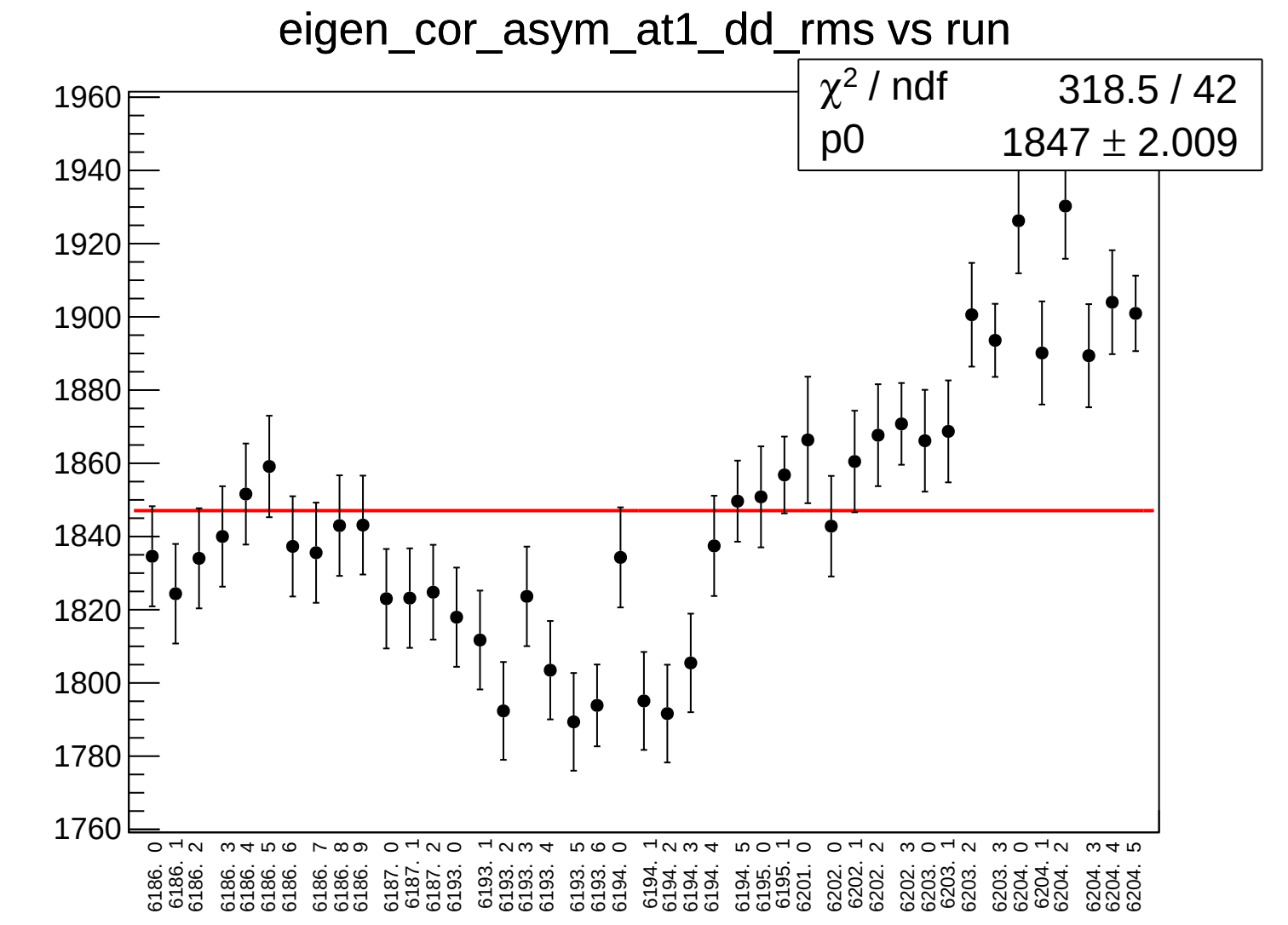

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 45.36 / 42
p0 144.6 ± 1084
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −125.1
Std Dev 0
2
1
0
−1
−2
−3

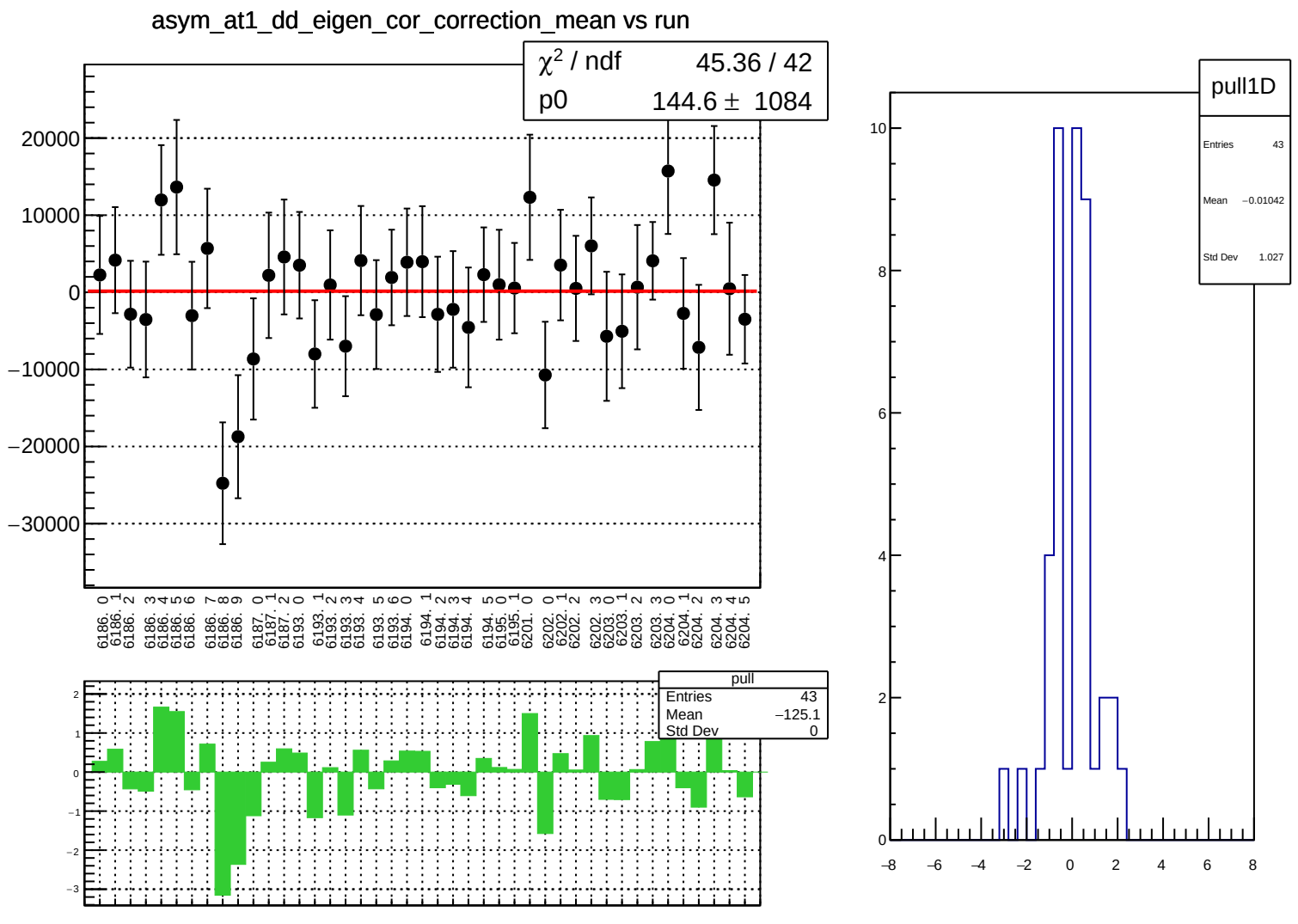

pull1D
Entries 43
Mean −0.01042
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

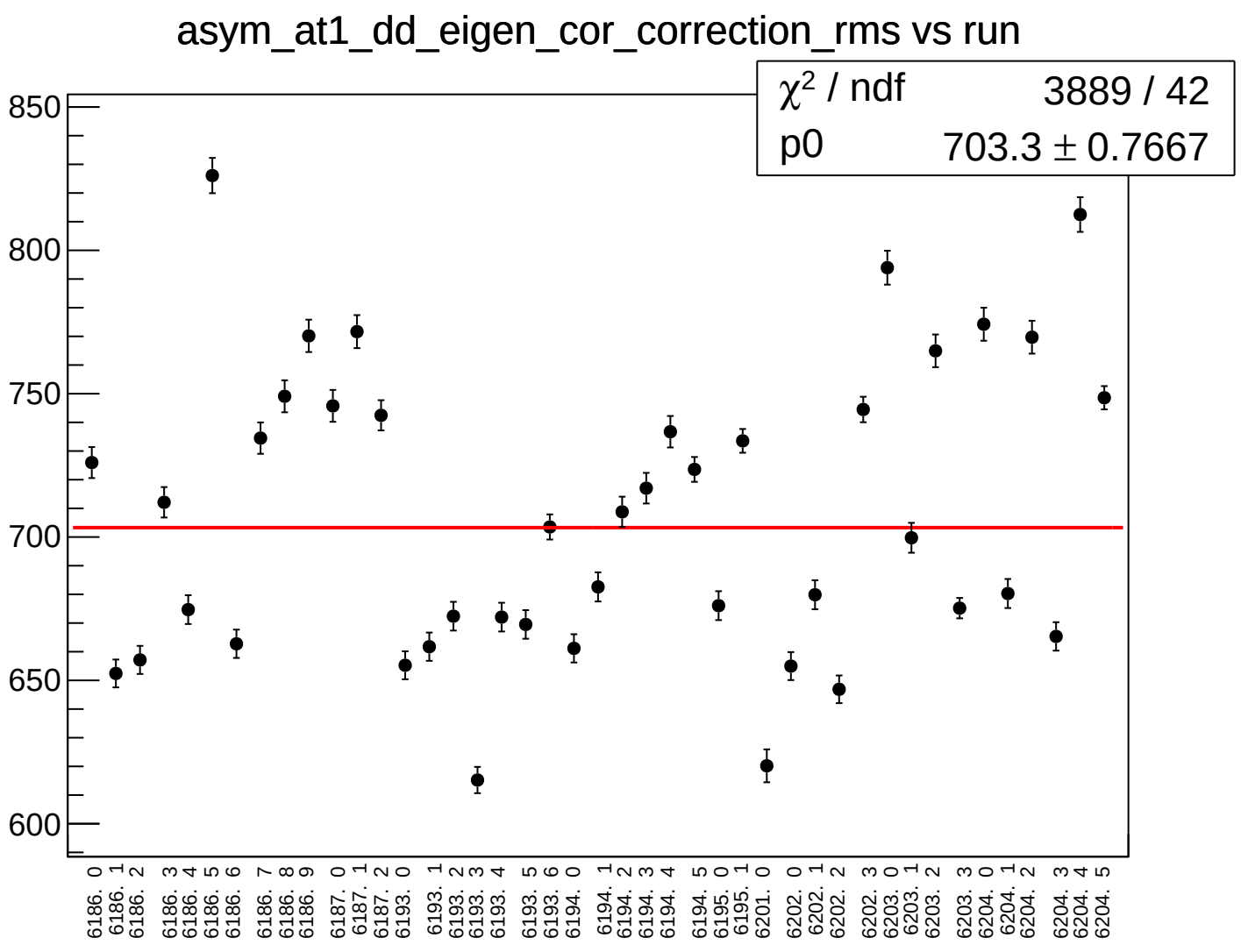

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 3889 / 42
p0 703.3 ± 0.7667
850
800
750
700
650
600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

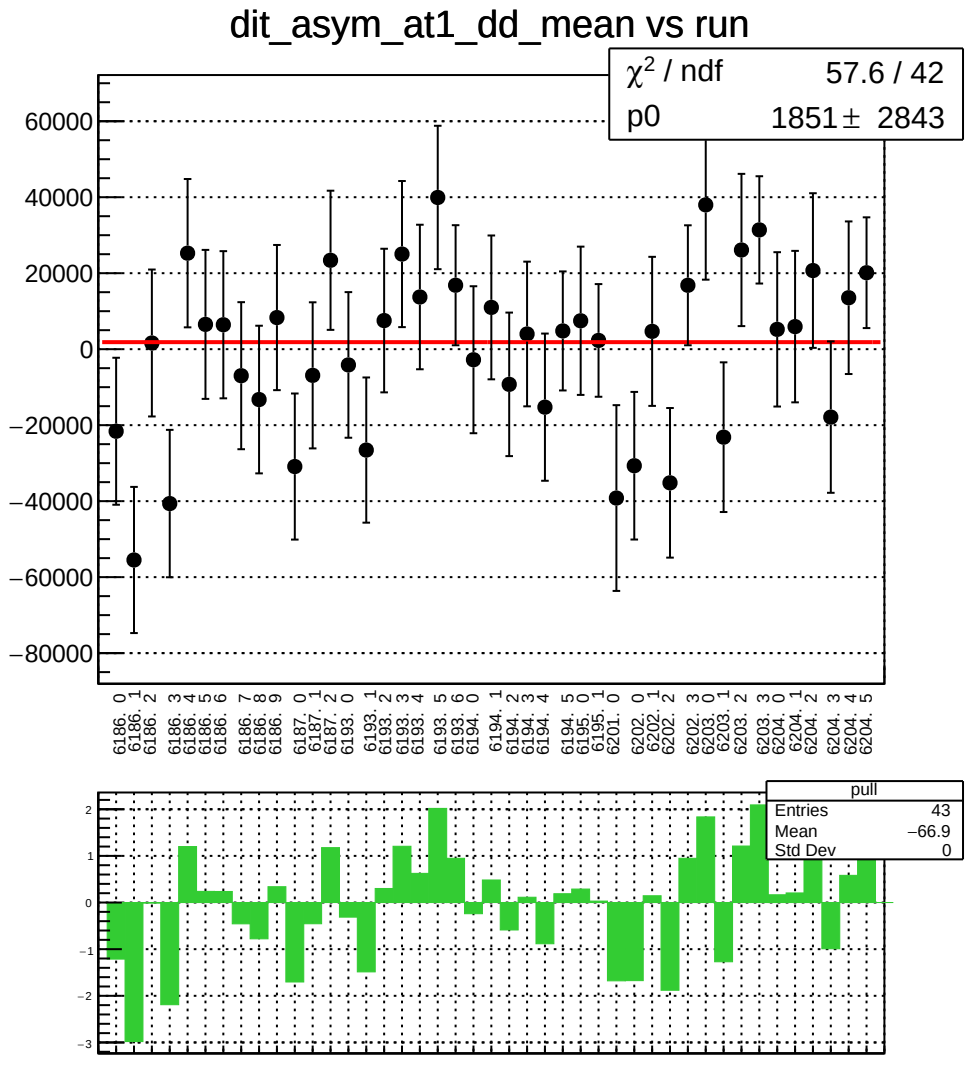

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 57.65 / 42
p0 1804 ± 2842
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −64.96
Std Dev 0
2
1
0
−1
−2
−3

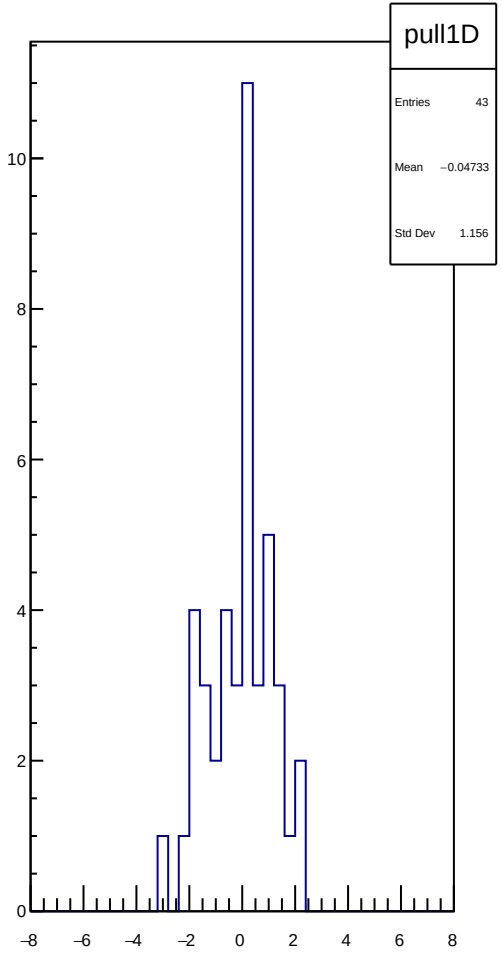

pull1D
Entries 43
Mean −0.04763
Std Dev 1.157
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

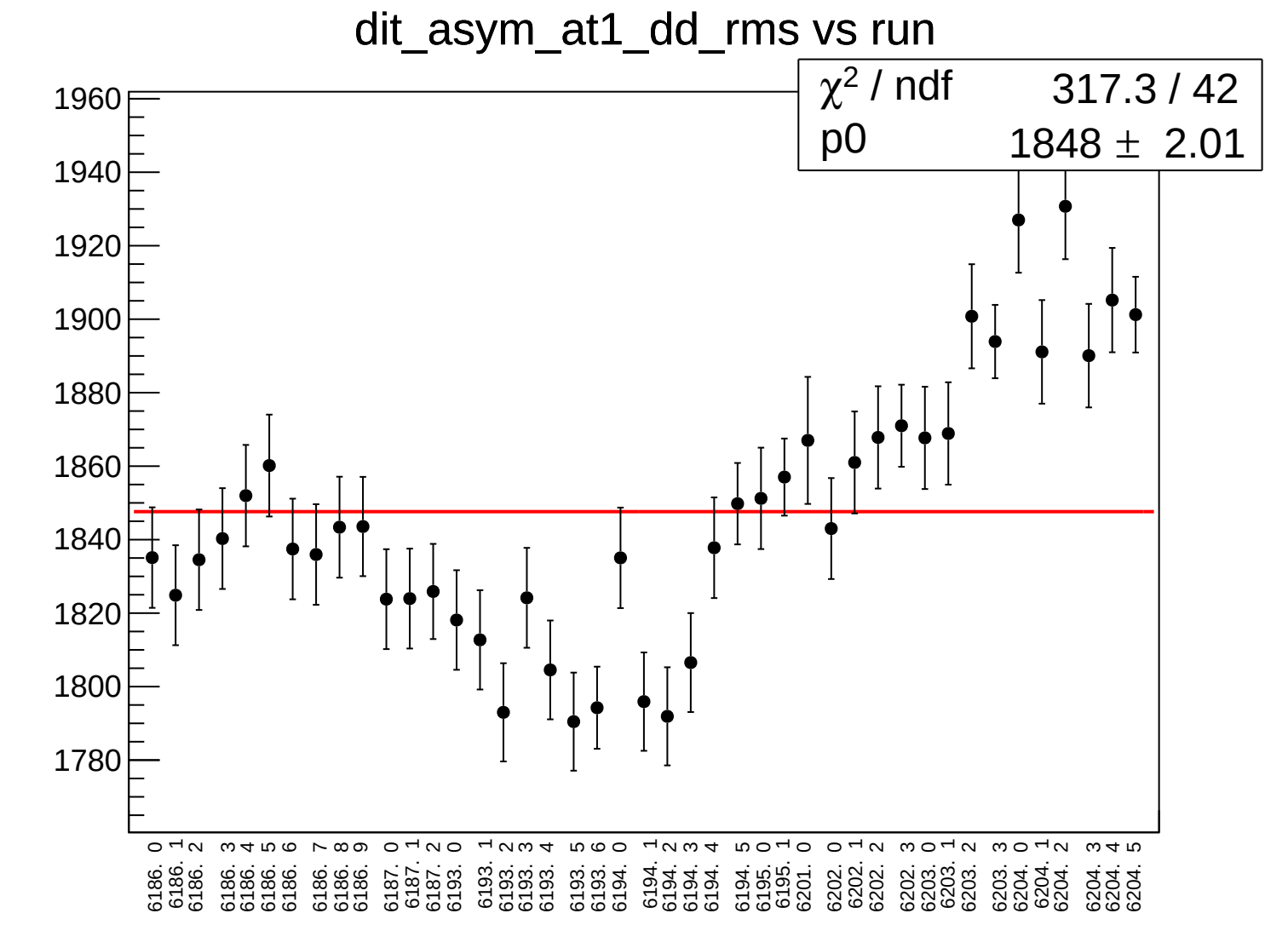

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 318.5 / 42
p0 1847 ± 2.009
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

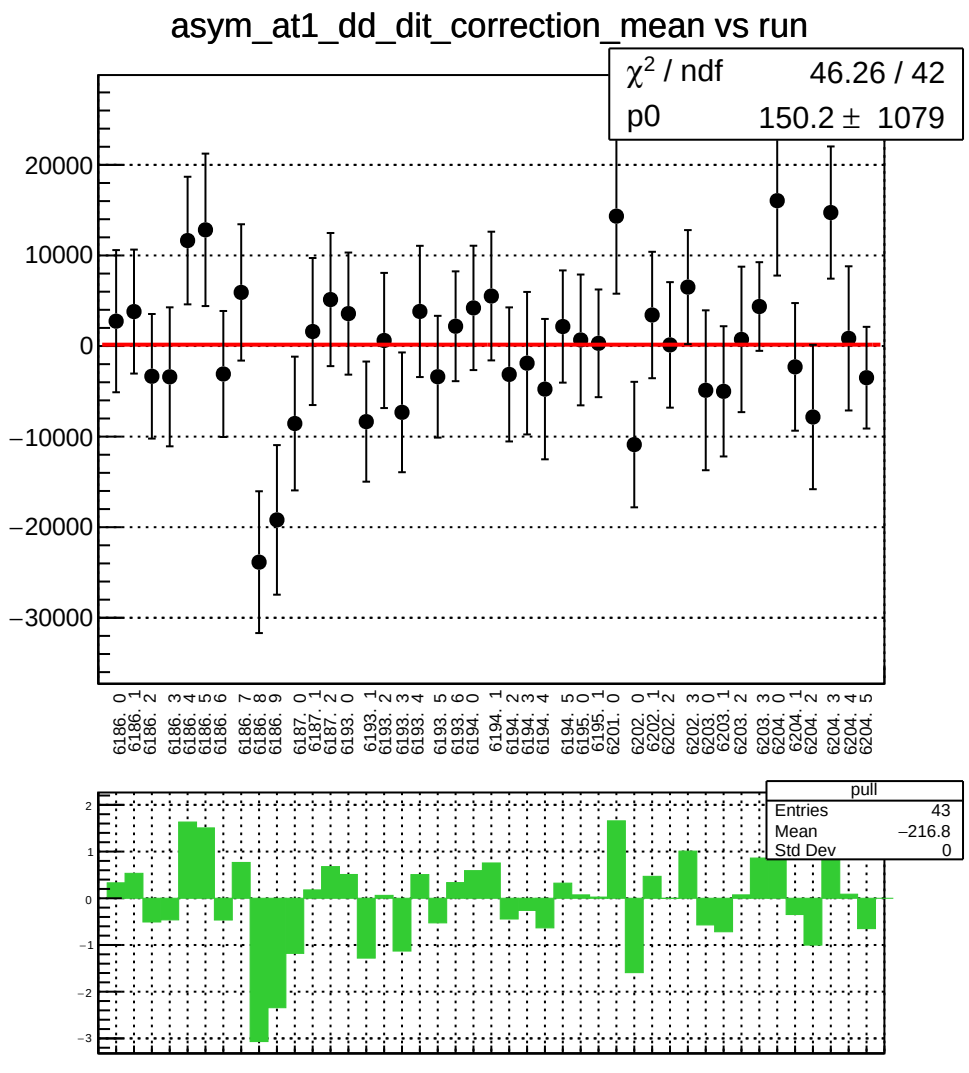

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 45.36 / 42
p0 144.6 ± 1084
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −125.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01042
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

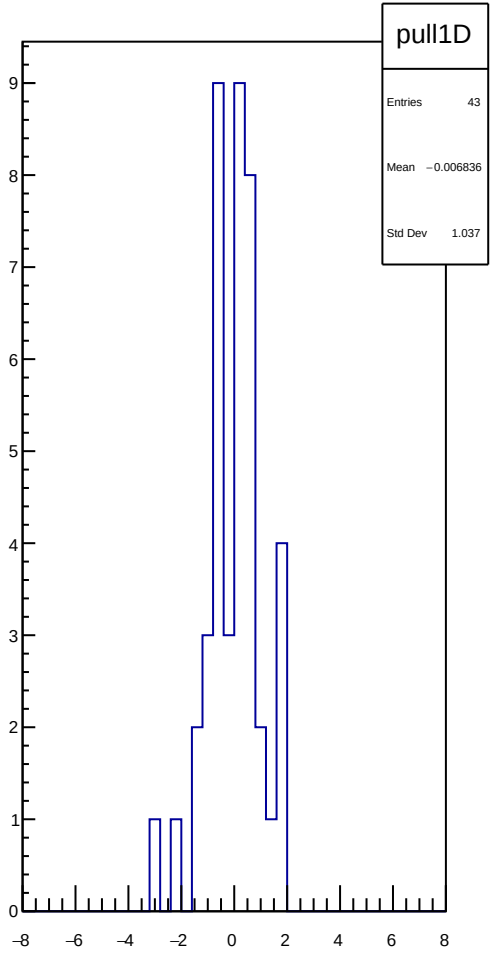

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3889 / 42
p0 703.3 ± 0.7667
850
800
750
700
650
600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

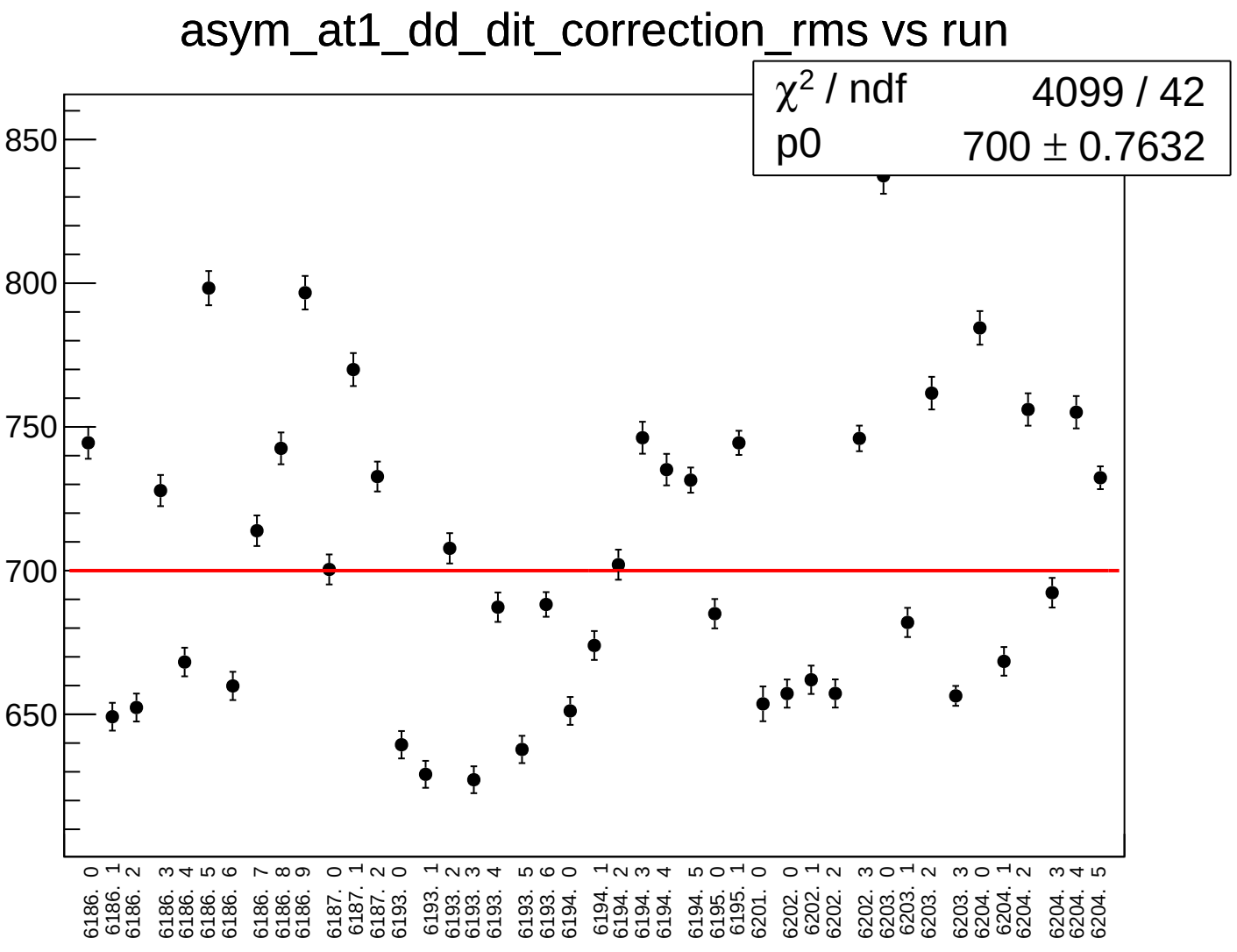

dit_asym_at1_dd_mean vs run
χ² / ndf 57.6 / 42
p0 1851 ± 2843
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −66.9
Std Dev 0
2
1
0
−1
−2
−3

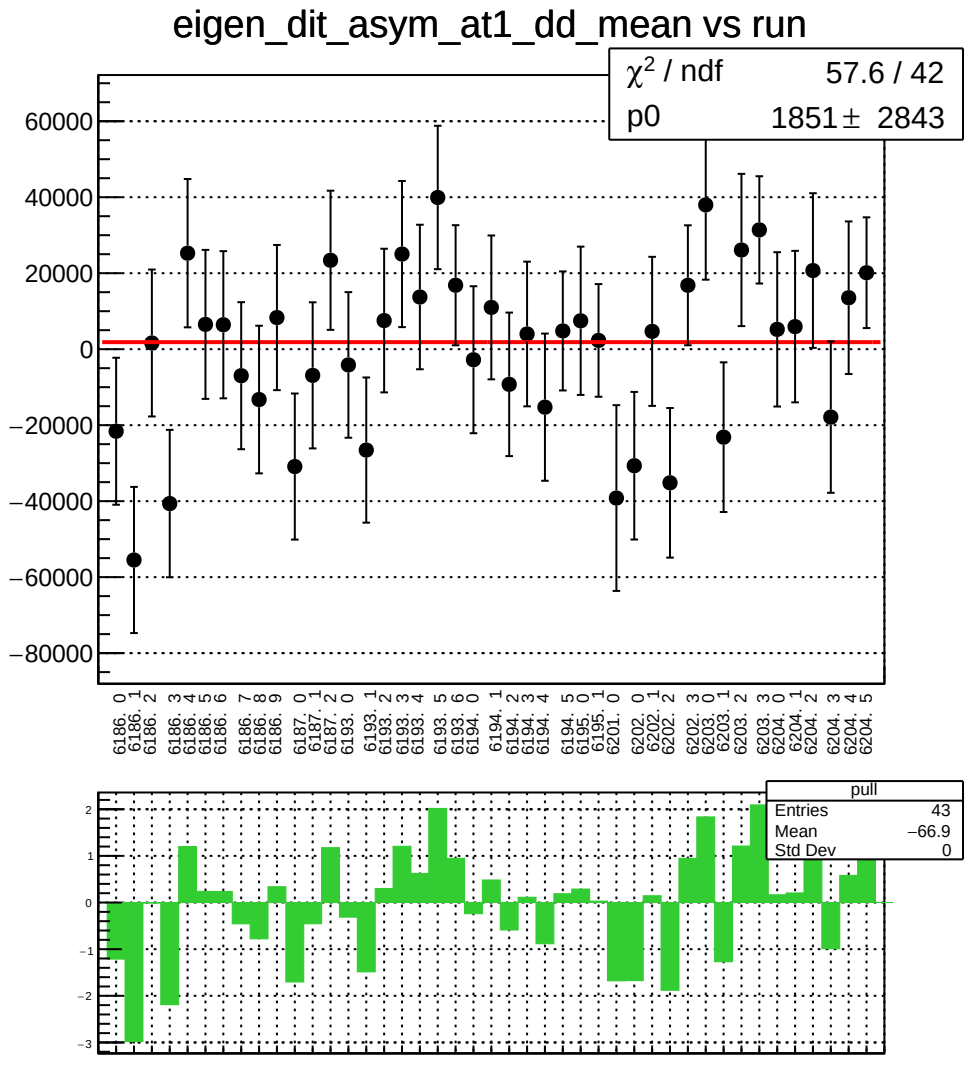

pull1D
Entries 43
Mean −0.04733
Std Dev 1.156
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

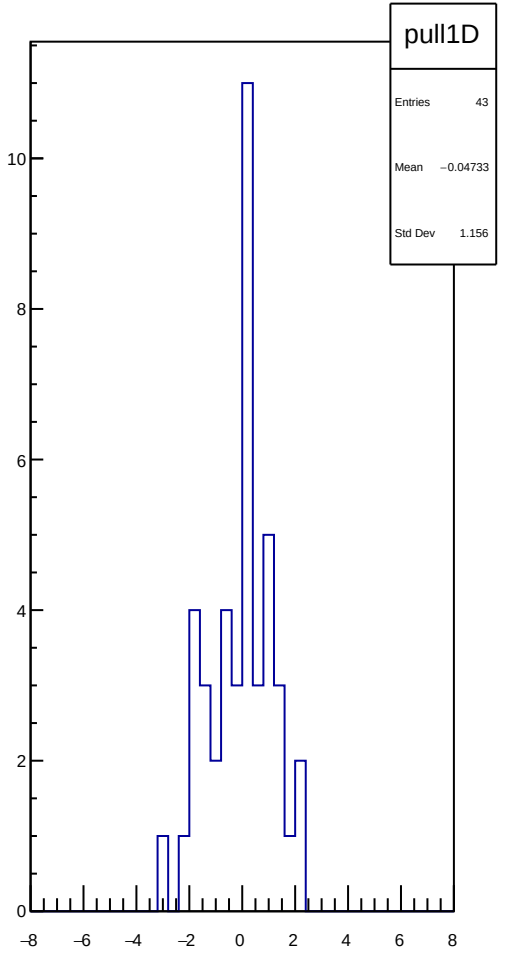

dit_asym_at1_dd_rms vs run
χ² / ndf 317.3 / 42
p0 1848 ± 2.01
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

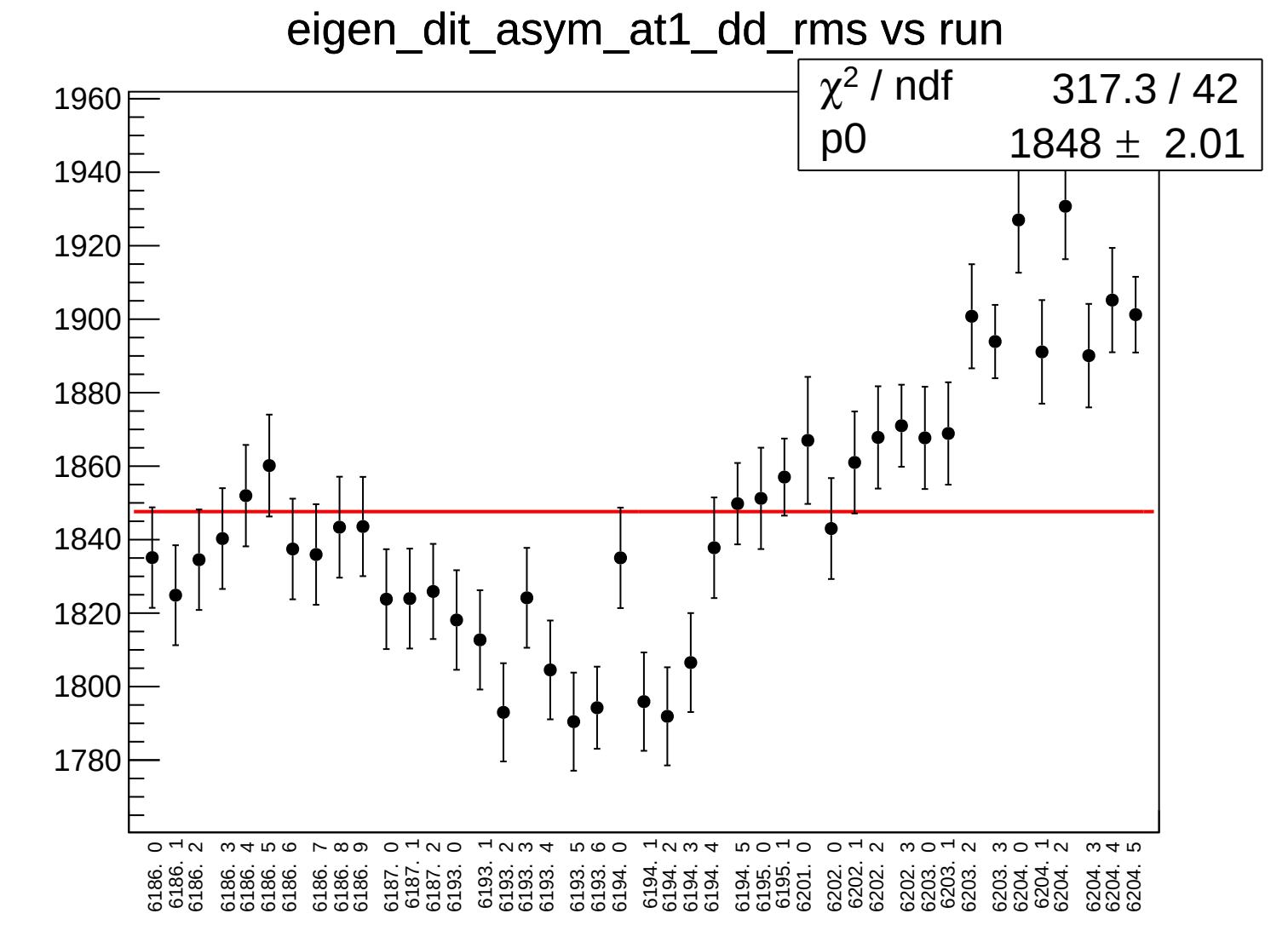

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 46.26 / 42
p0 150.2 ± 1079
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −216.8
Std Dev 0
2
1
0
−1
−2
−3

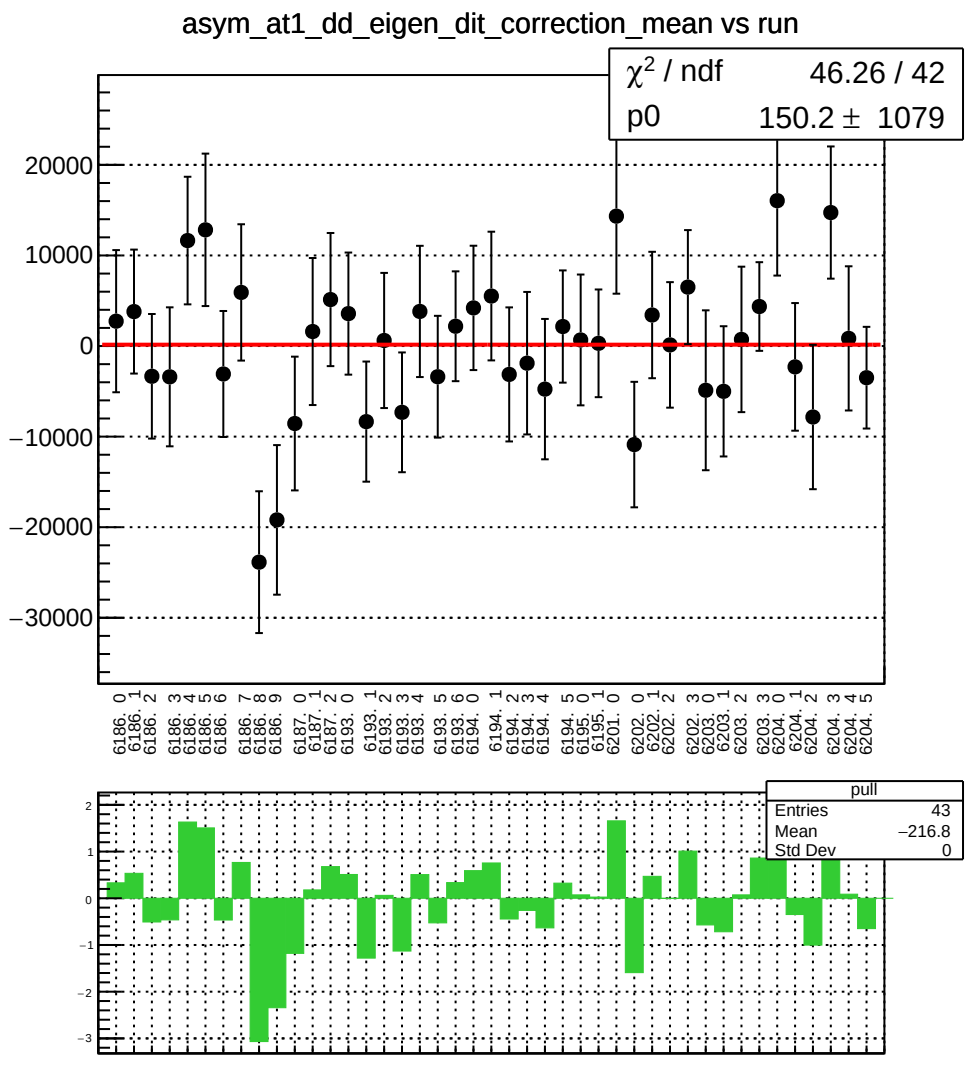

pull1D
Entries 43
Mean −0.006836
Std Dev 1.037
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

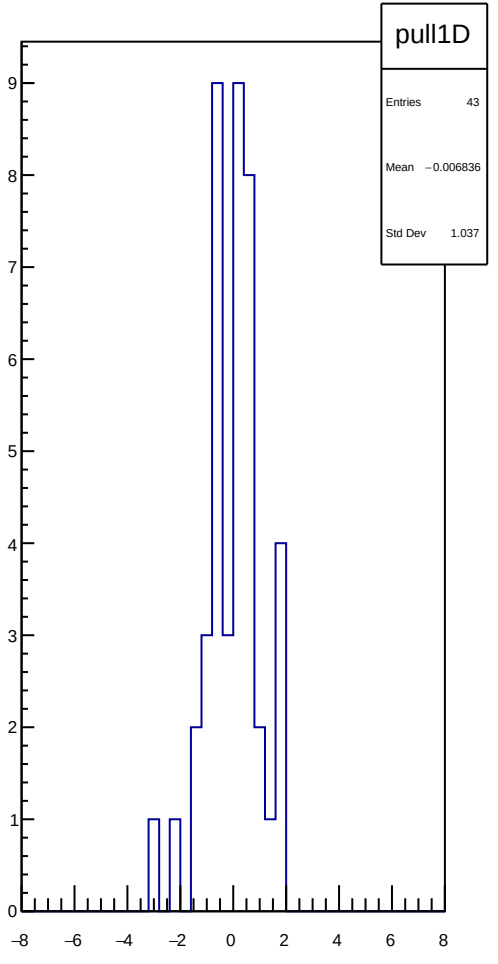

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 4099 / 42
p0 700 ± 0.7632
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

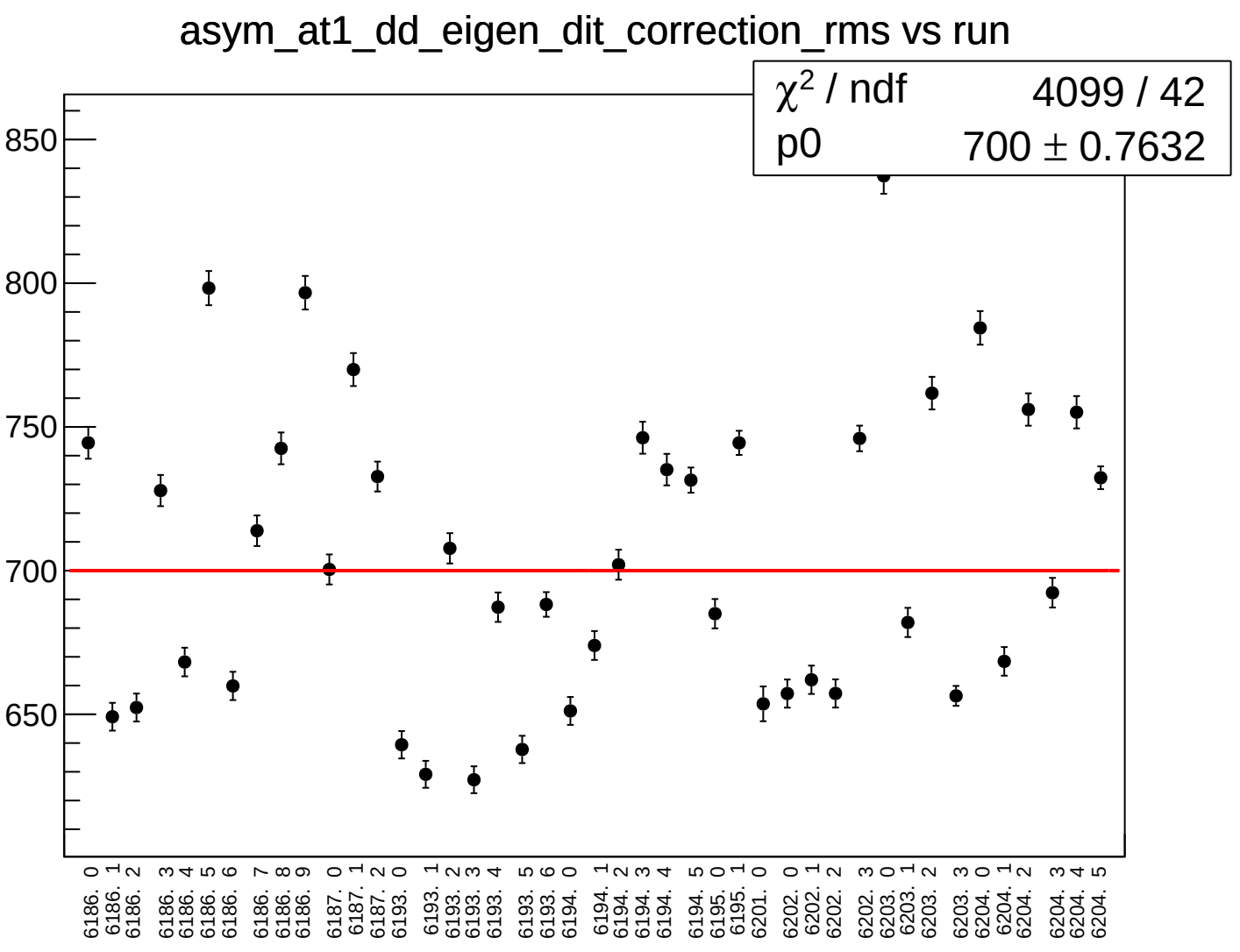

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 57.6 / 42
p0 1851 ± 2843
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −66.9
Std Dev 0
2
1
0
−1
−2
−3

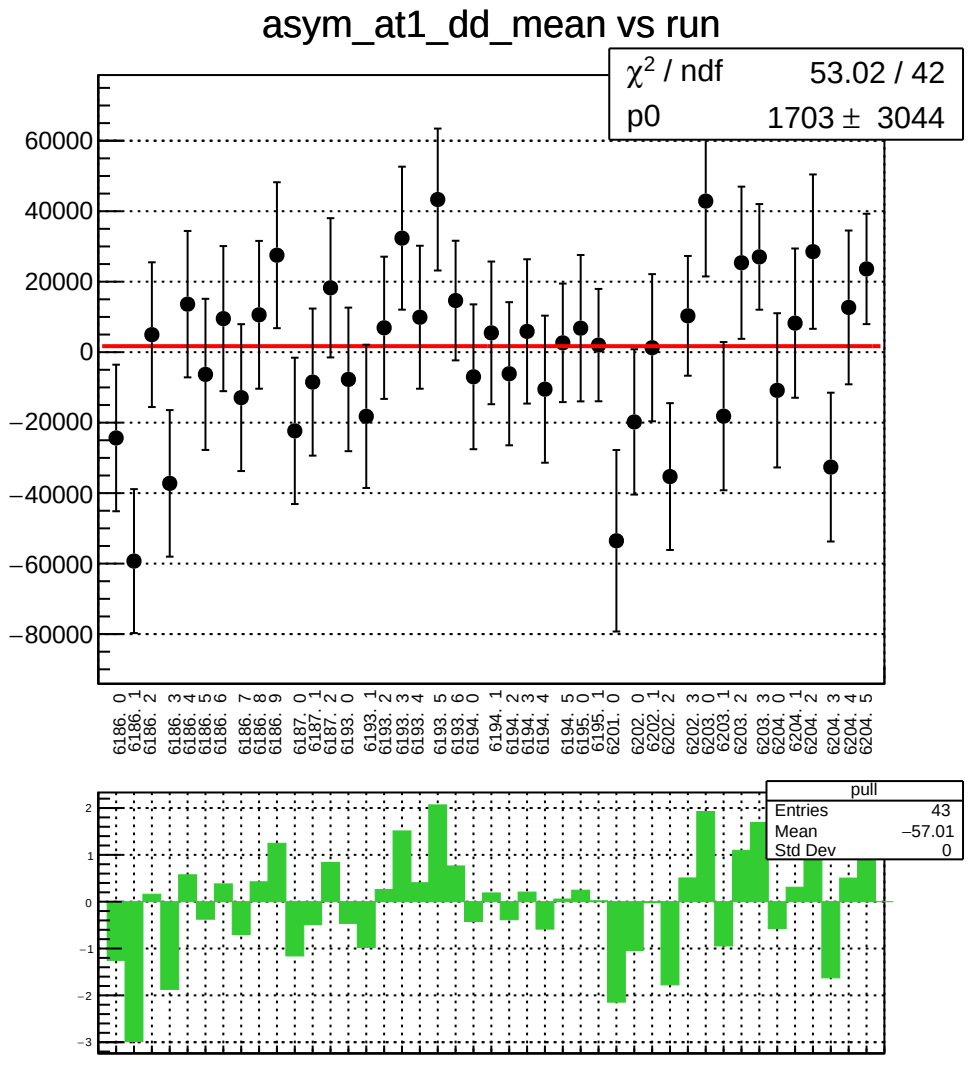

pull1D
Entries 43
Mean −0.04733
Std Dev 1.156
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

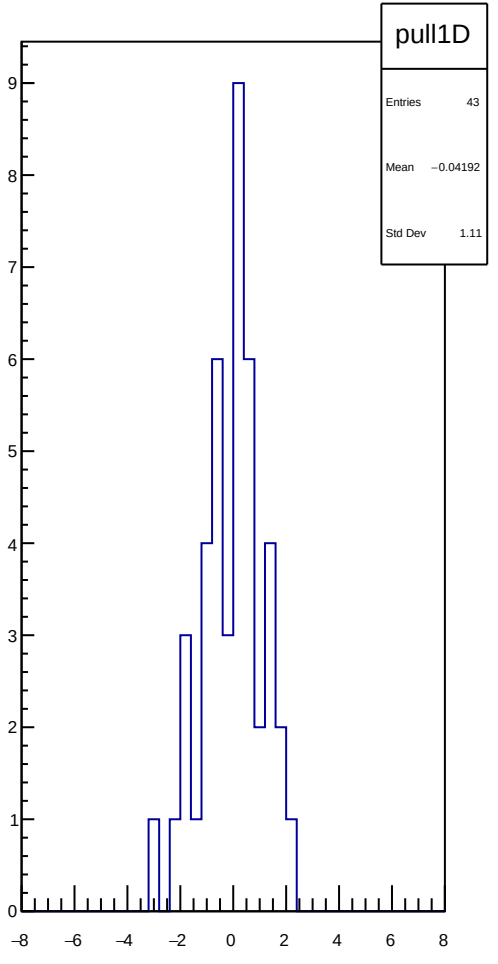

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 317.3 / 42
p0 1848 ± 2.01
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

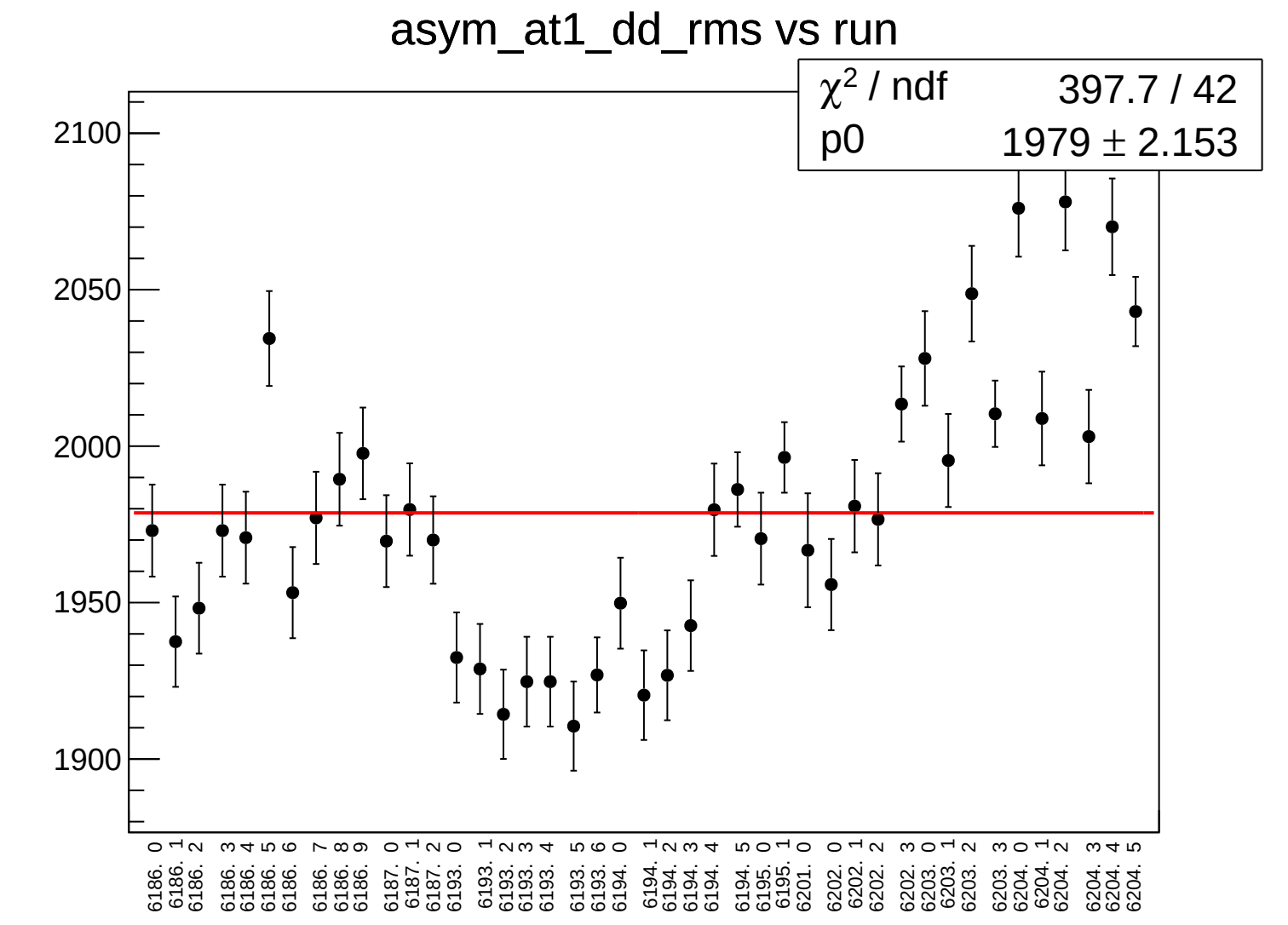

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 46.26 / 42
p0 150.2 ± 1079
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −216.8
Std Dev 0
2
1
0
−1
−2
−3

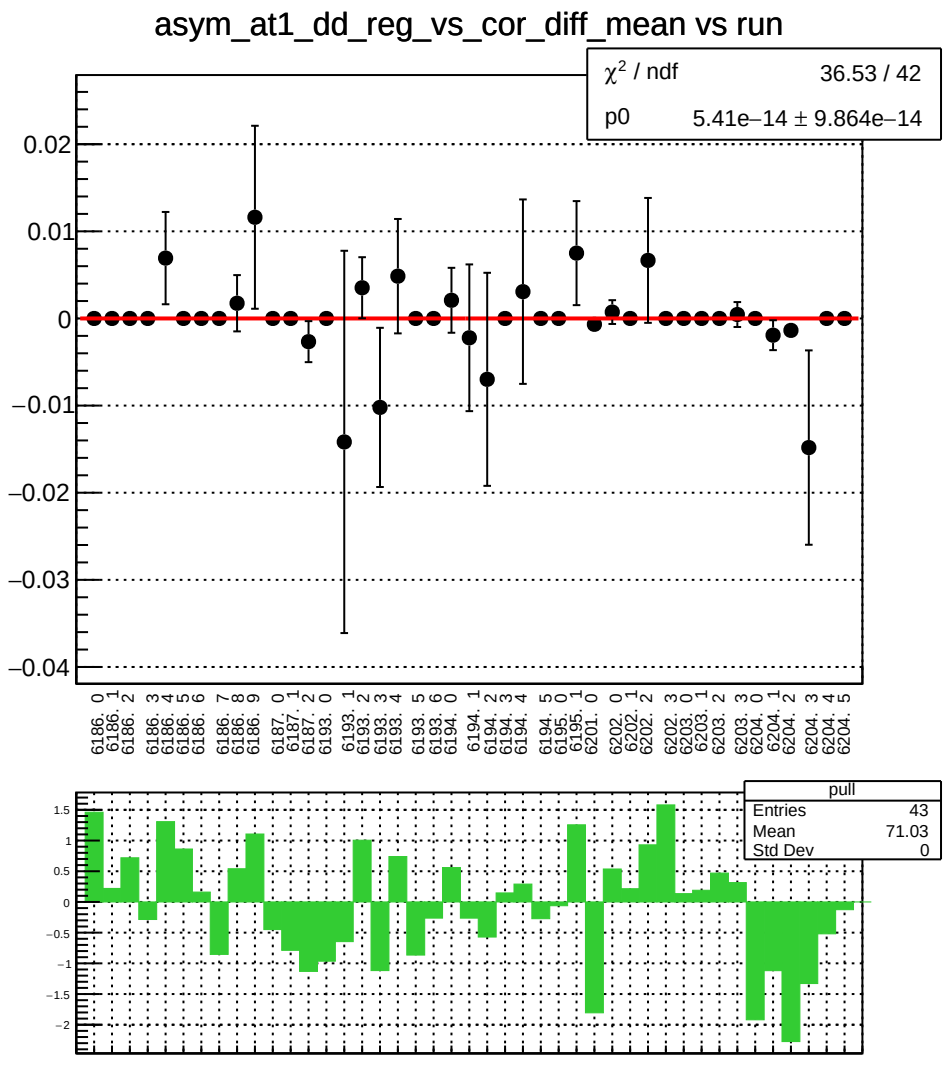

pull1D
Entries 43
Mean −0.006836
Std Dev 1.037
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4099 / 42
p0 700 ± 0.7632
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_at1_dd_mean vs run
χ² / ndf 53.02 / 42
p0 1703 ± 3044
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −57.01
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.04192
Std Dev 1.11
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_rms vs run
χ² / ndf 397.7 / 42
p0 1979 ± 2.153
2100
2050
2000
1950
1900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 36.53 / 42
p0 5.41e−14 ± 9.864e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
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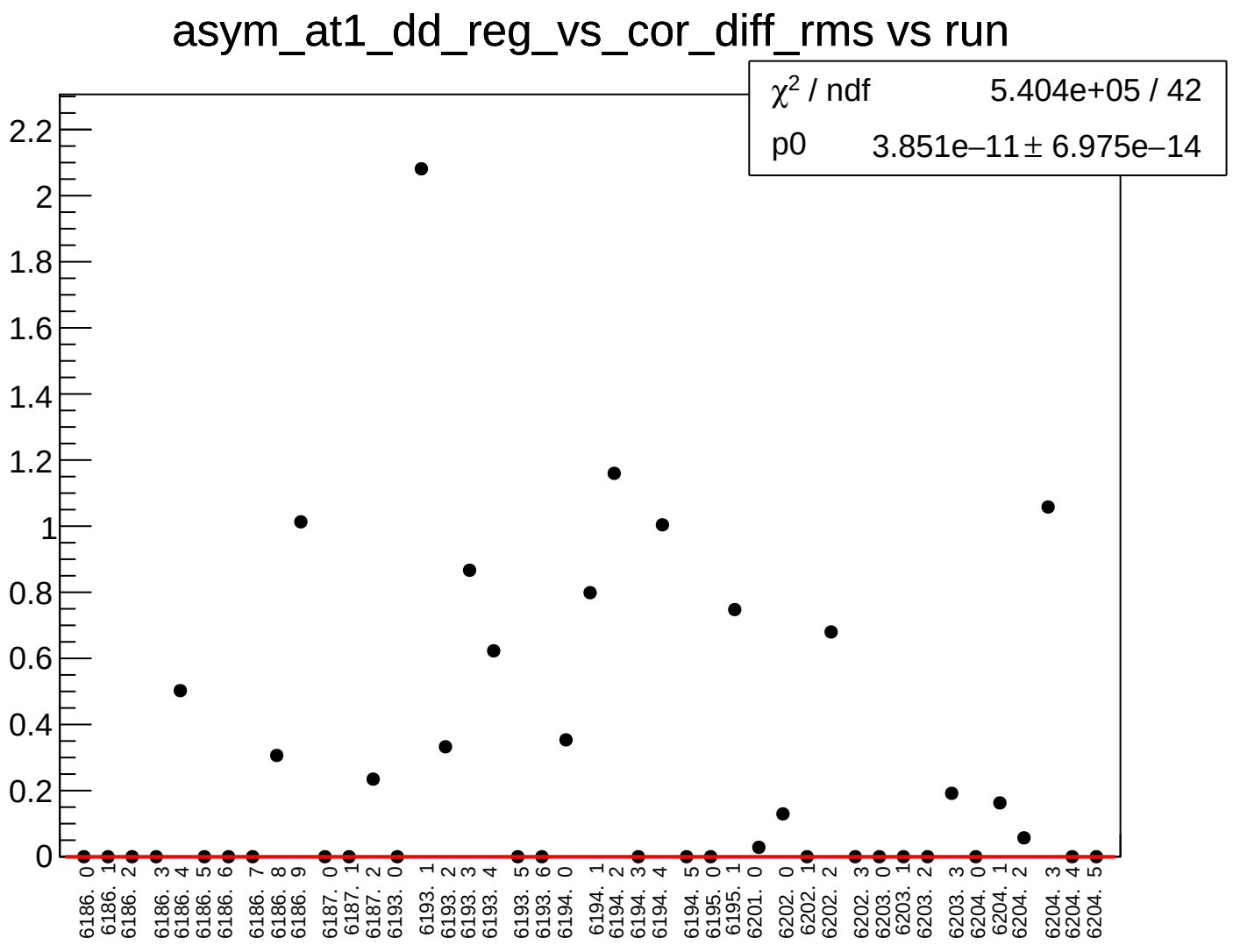
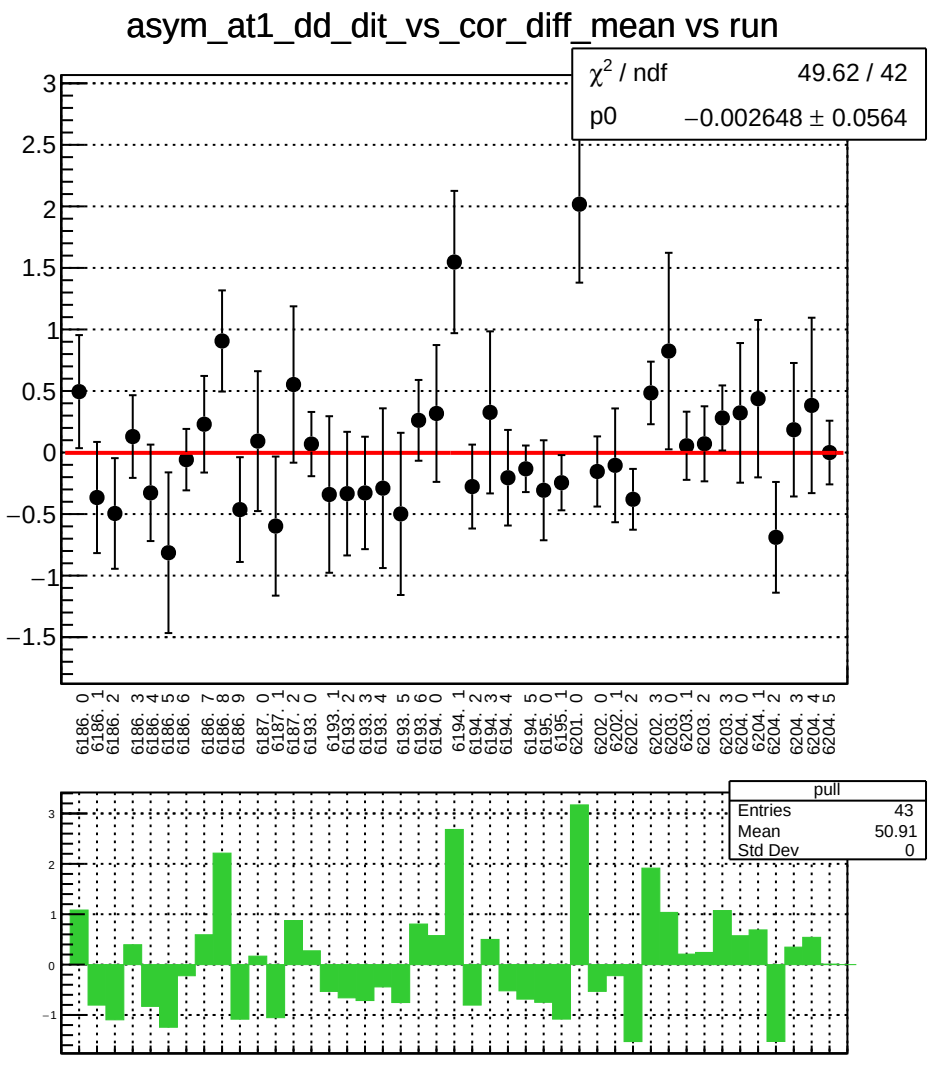
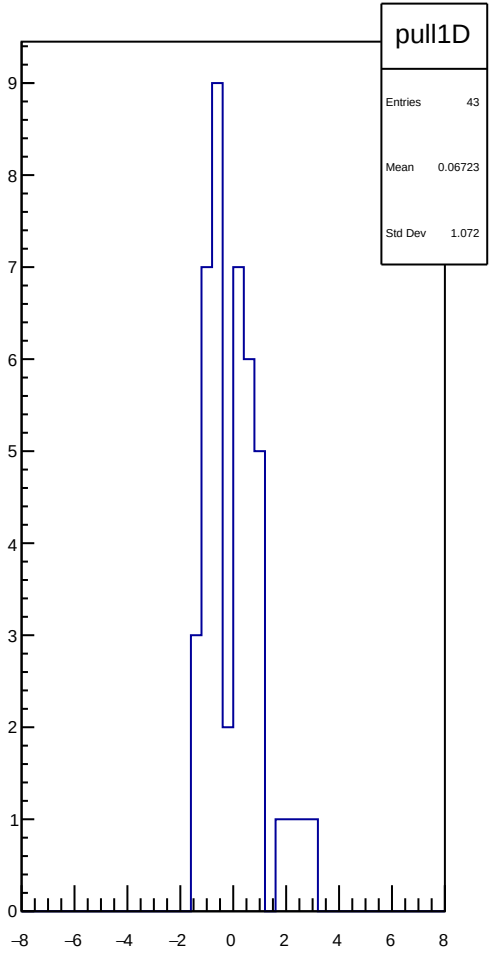
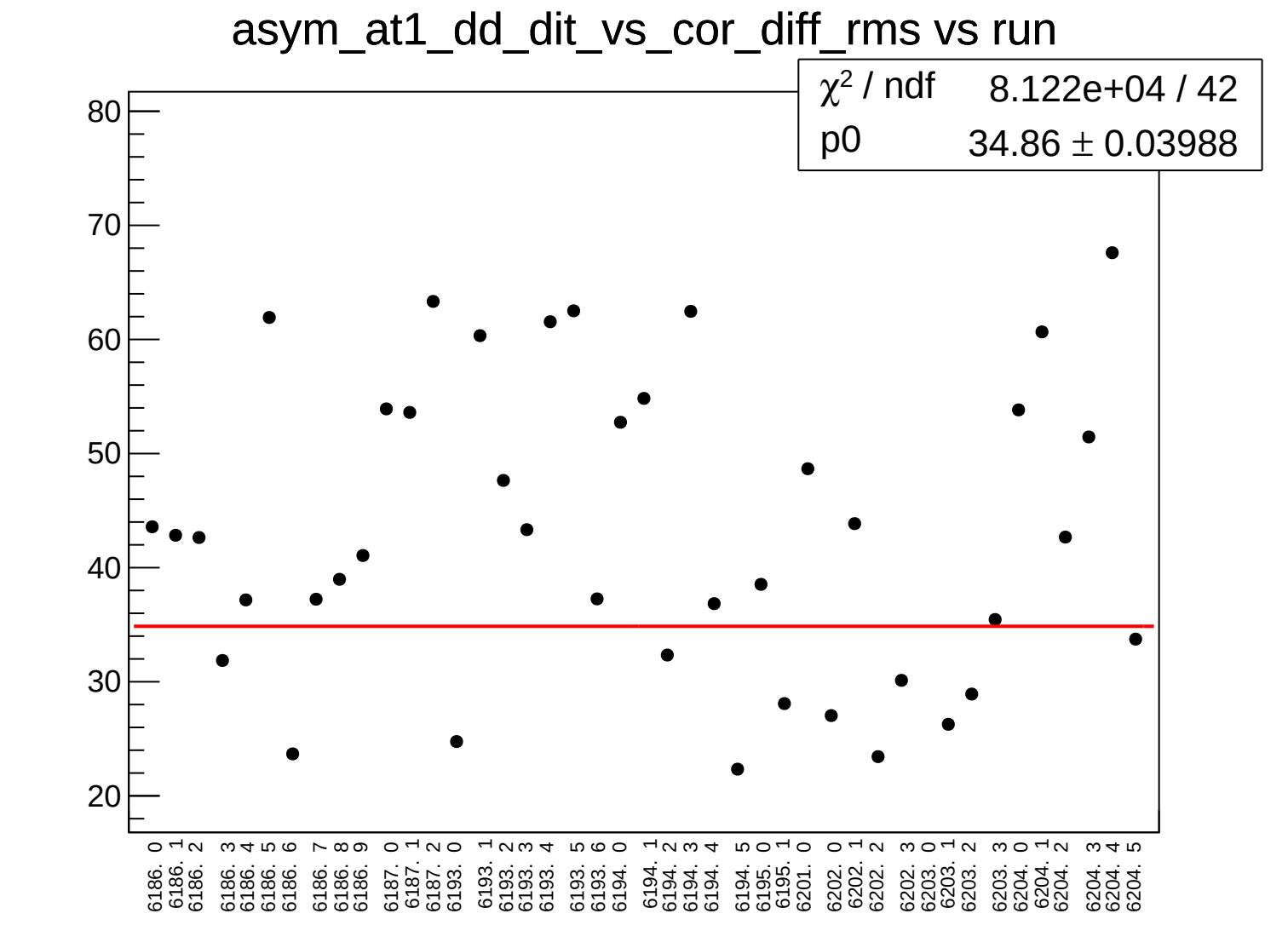
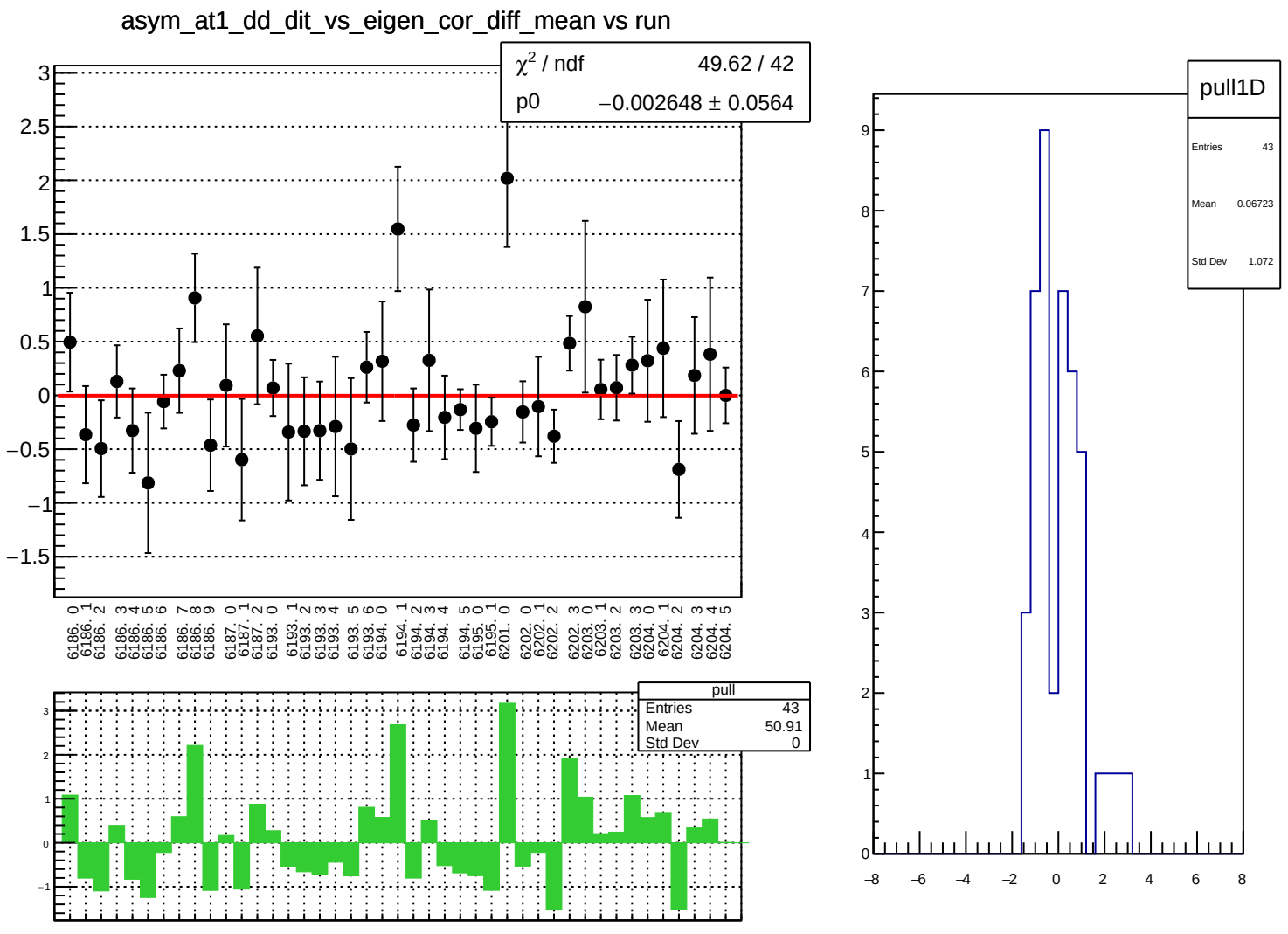
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 71.03
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.06691
Std Dev 0.9193
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

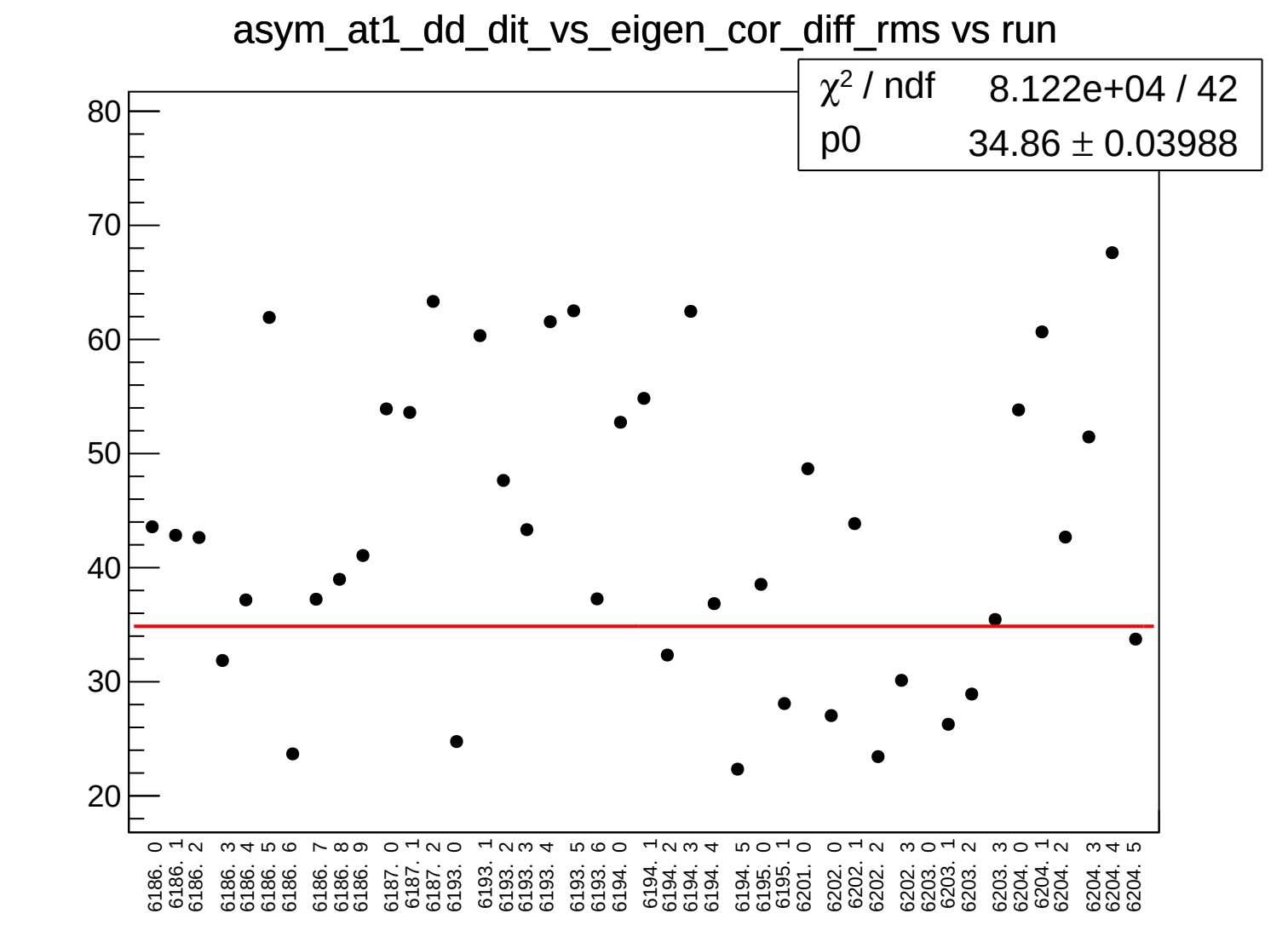

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.404e+05 / 42
p0 3.851e−11 ± 6.975e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

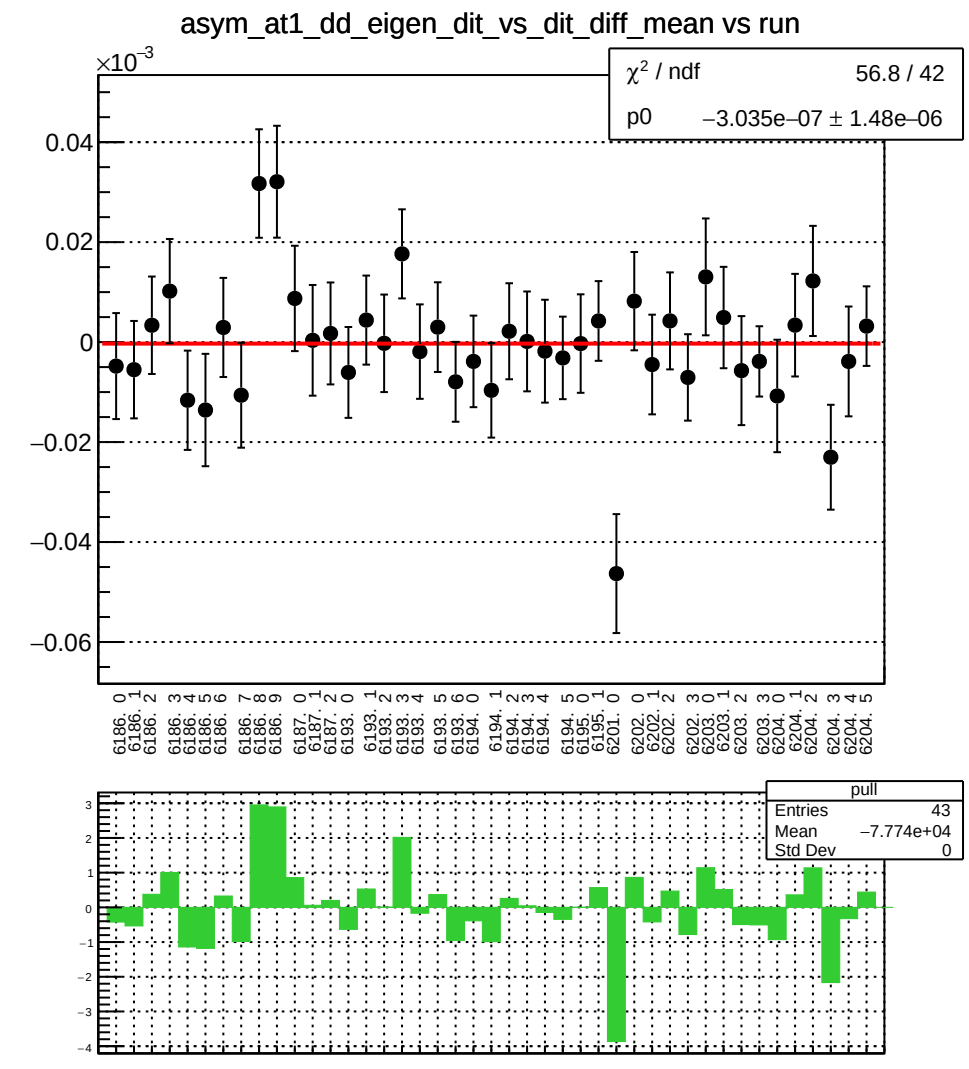

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 49.62 / 42
p0 −0.002648 ± 0.0564
pull
Entries 43
Mean 50.91
Std Dev 0

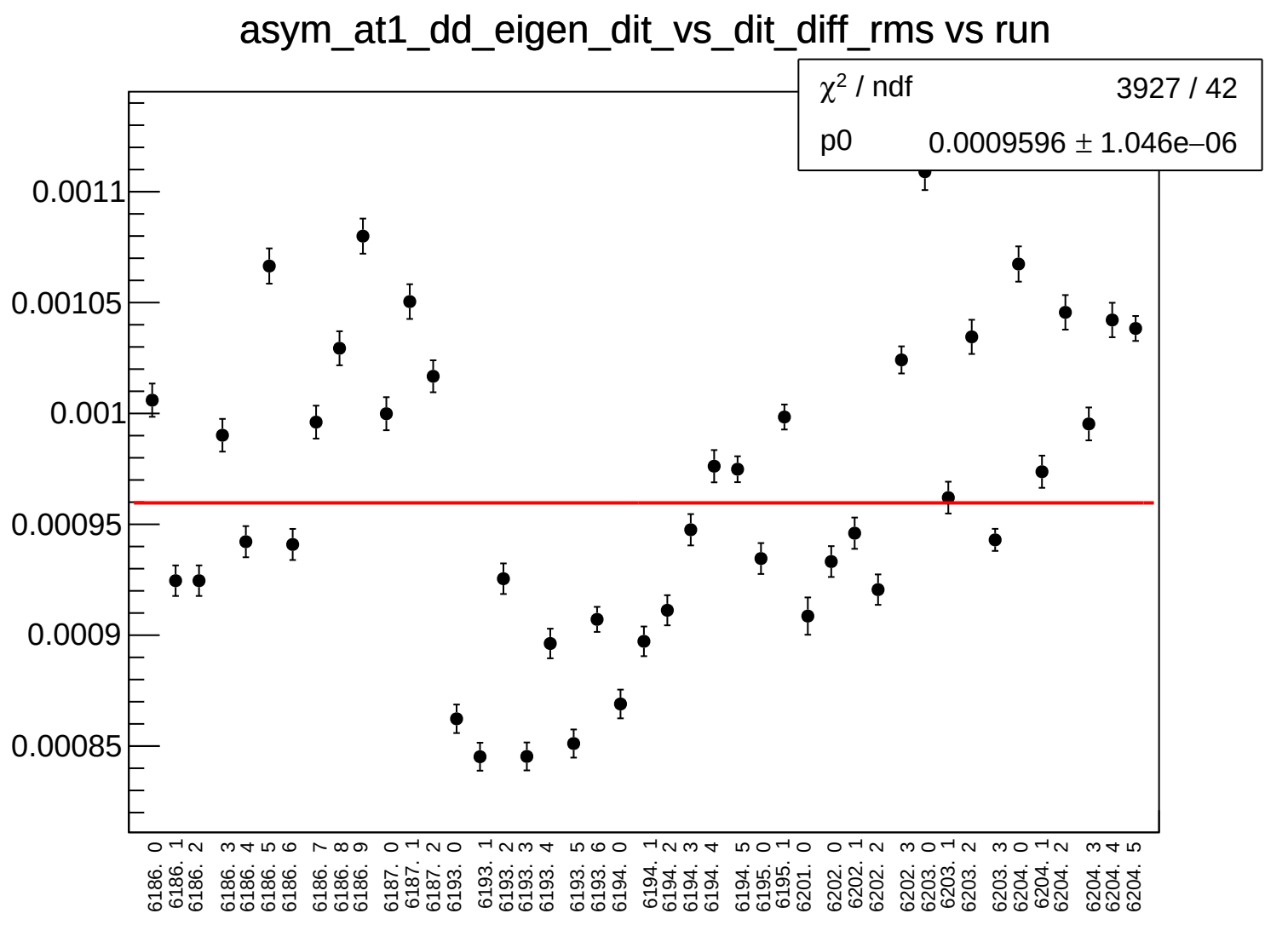

pull1D
Entries 43
Mean 0.06723
Std Dev 1.072

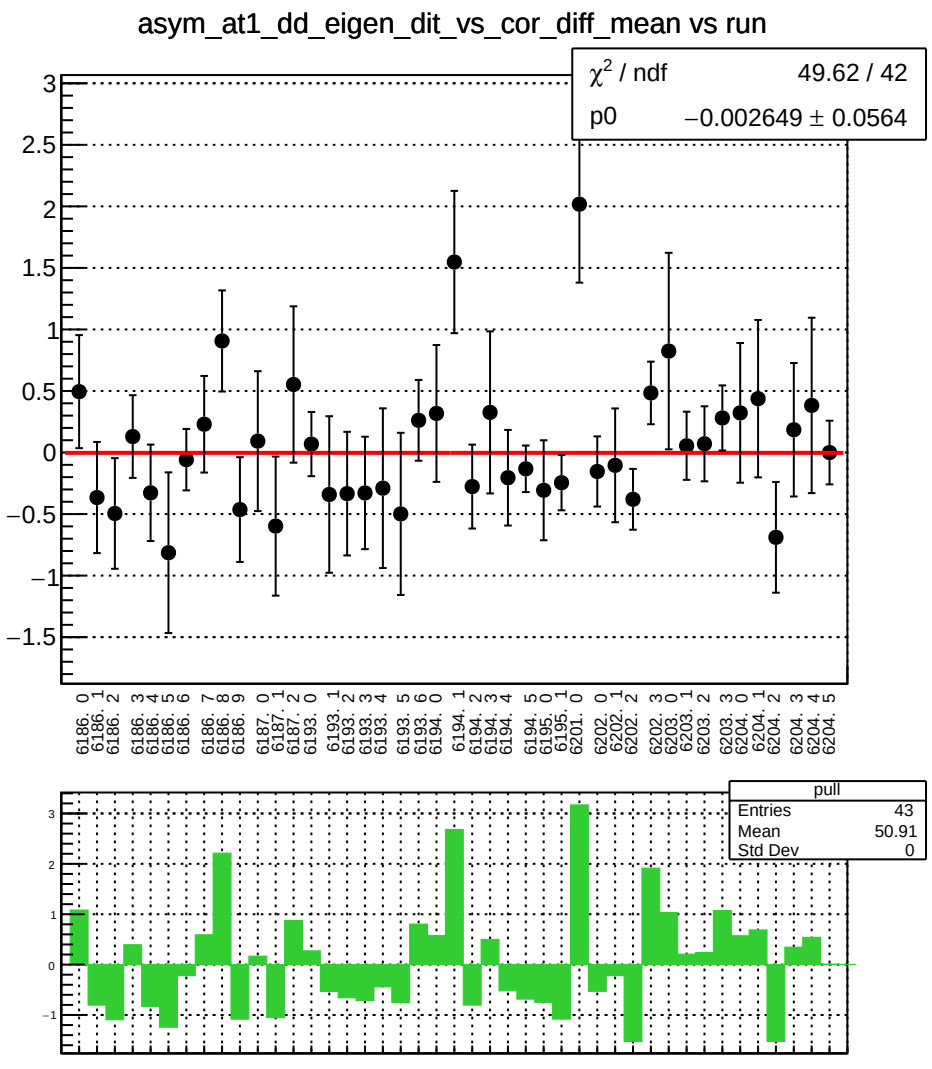

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.122e+04 / 42
p0 34.86 ± 0.03988
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

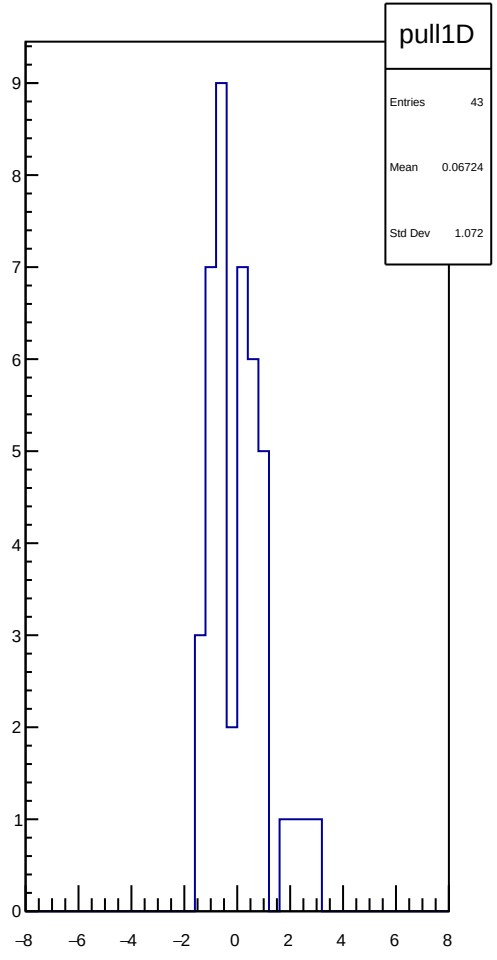

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.62 / 42
p0 −0.002648 ± 0.0564
pull
Entries 43
Mean 50.91
Std Dev 0
pull1D
Entries 43
Mean 0.06723
Std Dev 1.072

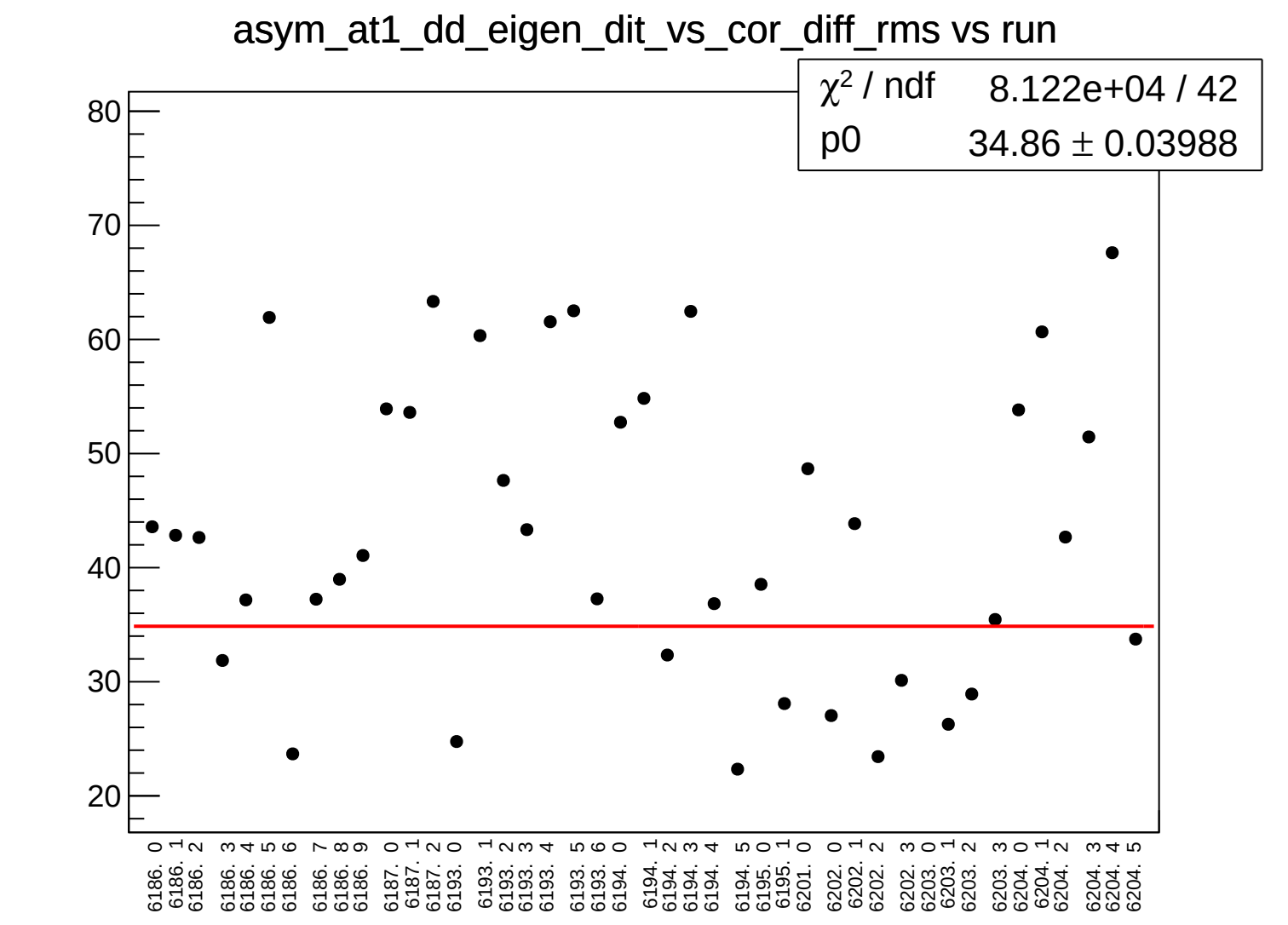

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.122e+04 / 42
p0 34.86 ± 0.03988
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

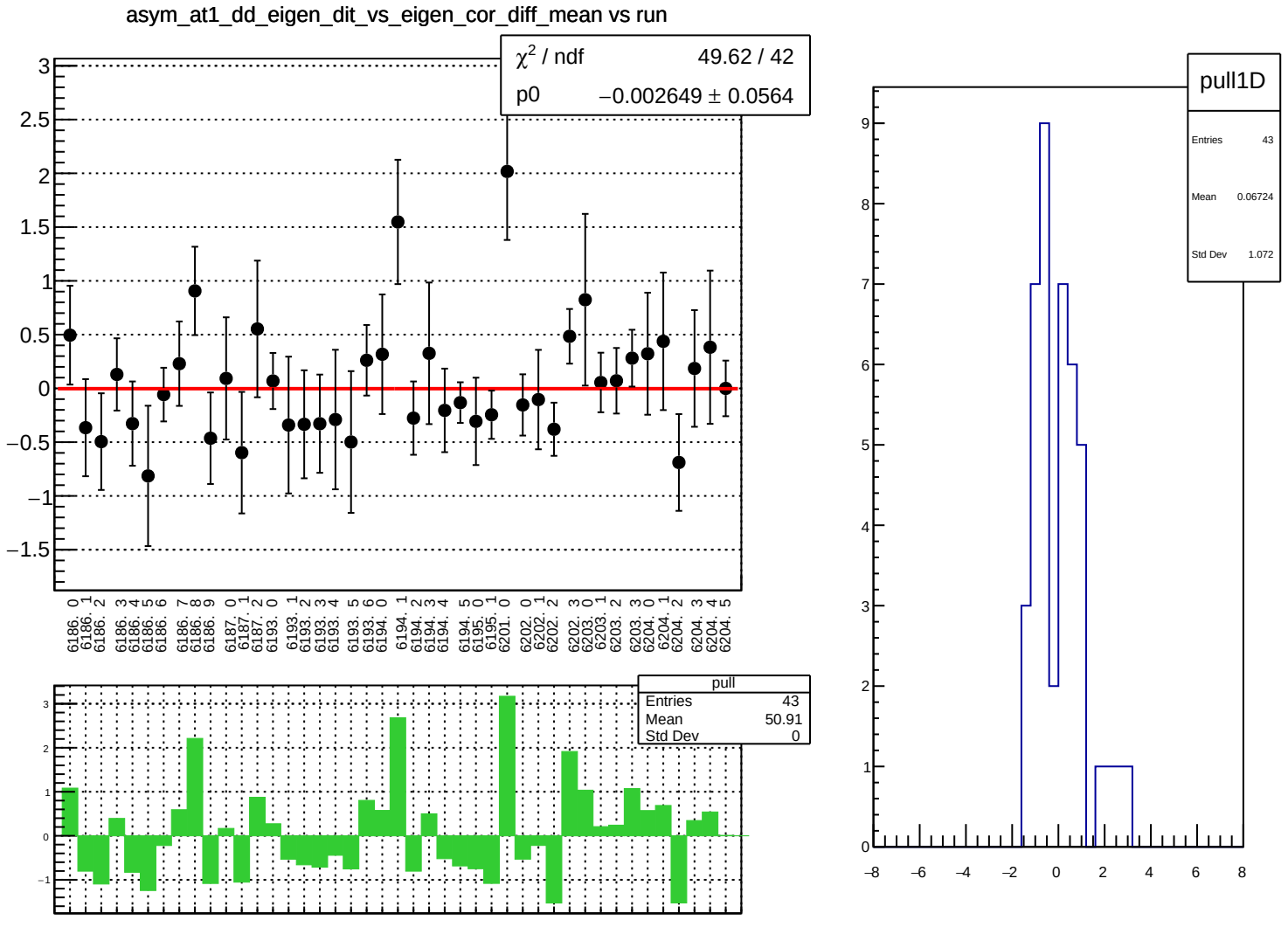

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 56.8 / 42
p0 −3.035e−07 ± 1.48e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −7.774e+04
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean 2.902e−05
Std Dev 1.149
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

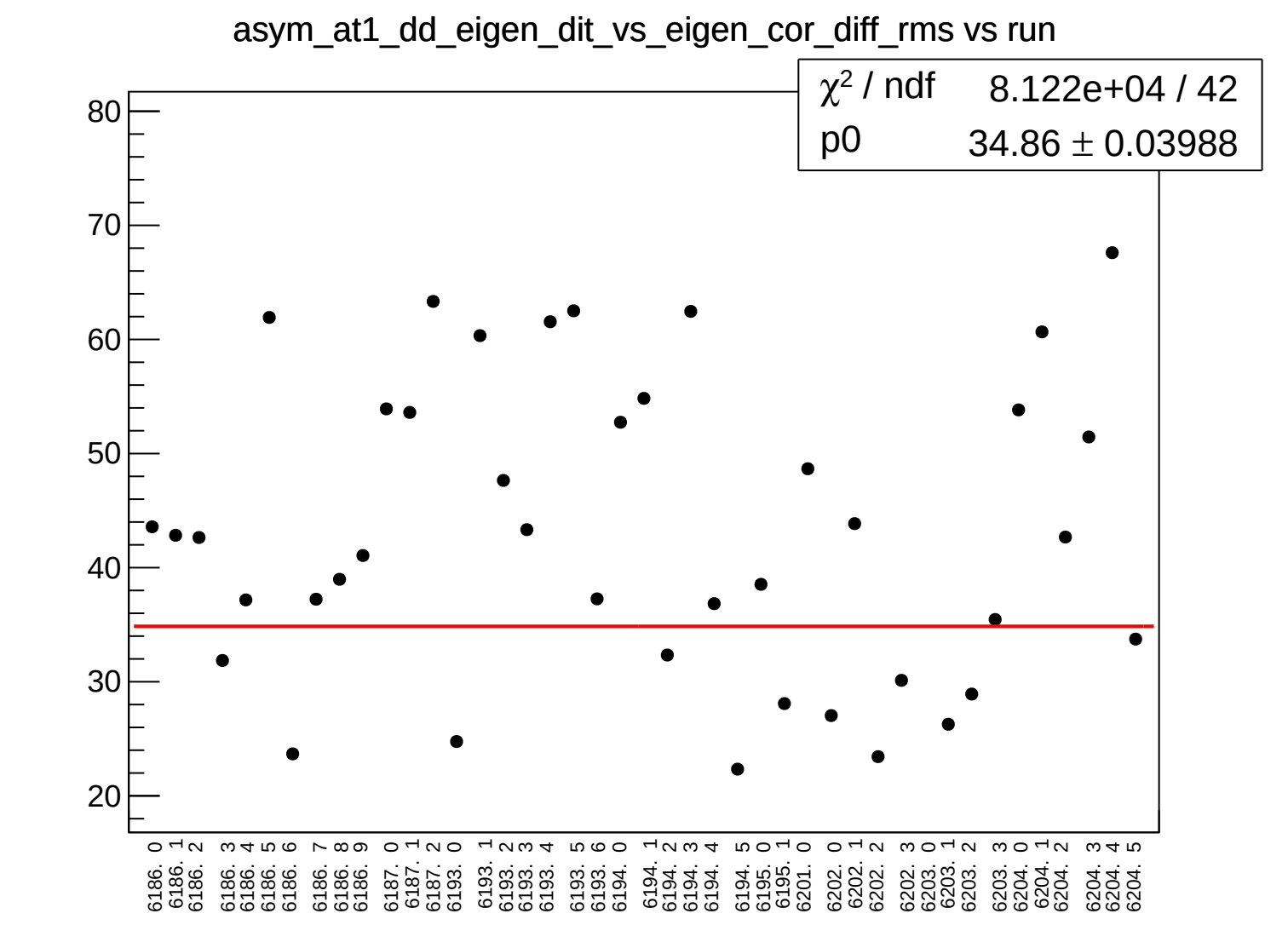

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3927 / 42
p0 0.0009596 ± 1.046e−06
0.0011
0.00105
0.001
0.00095
0.0009
0.00085
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

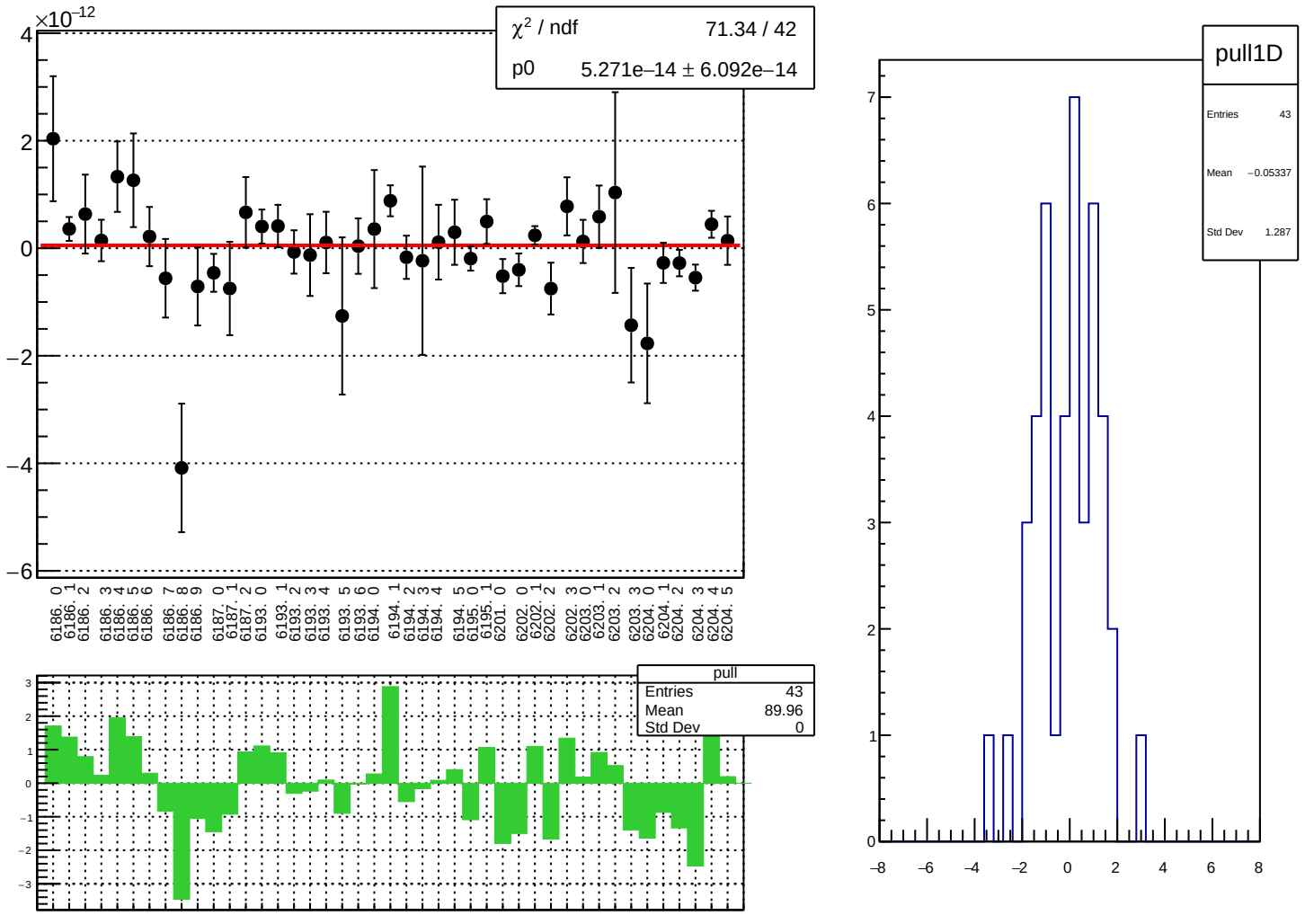

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.62 / 42
p0 −0.002649 ± 0.0564
pull
Entries 43
Mean 50.91
Std Dev 0

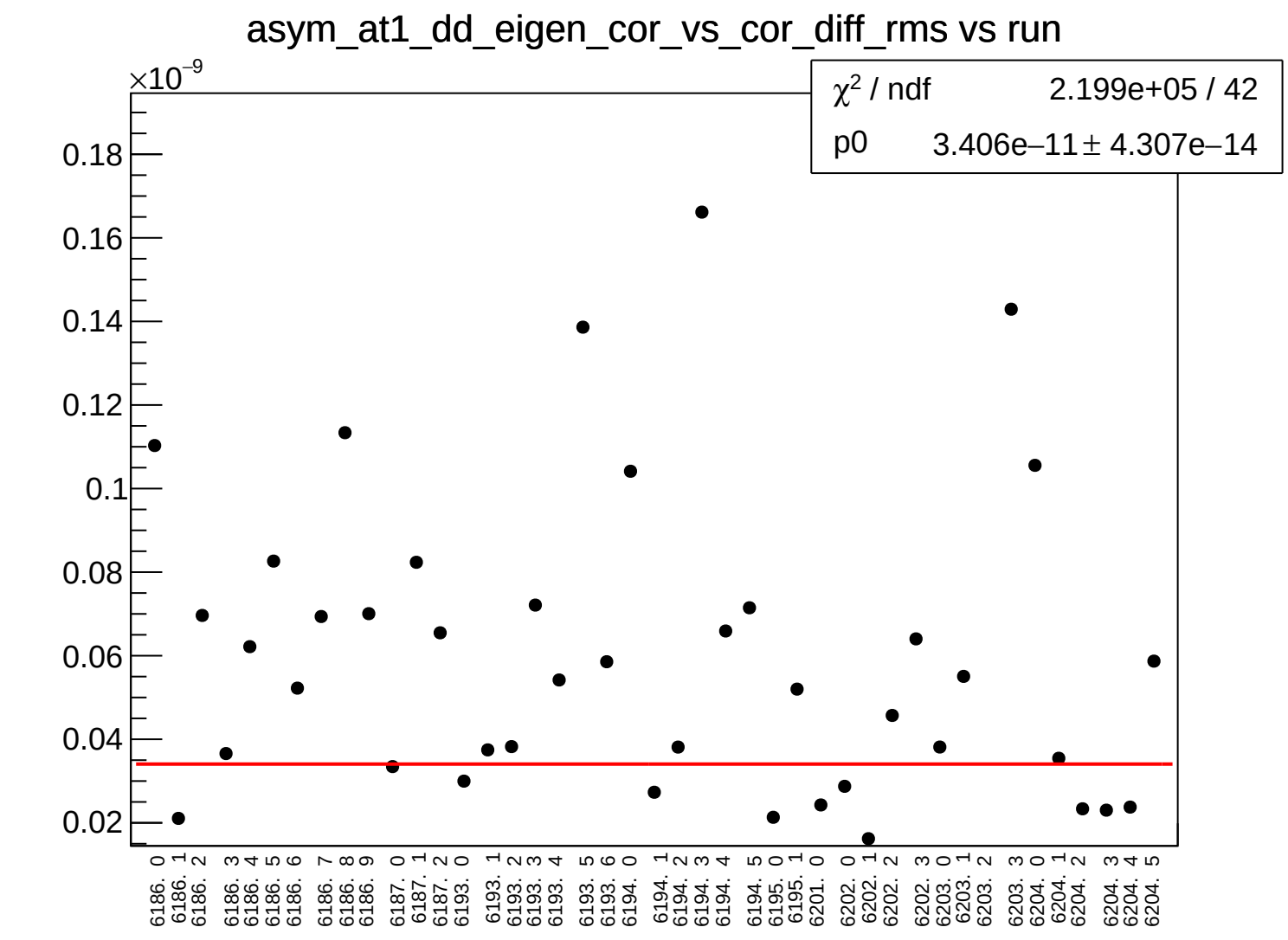

pull1D
Entries 43
Mean 0.06724
Std Dev 1.072

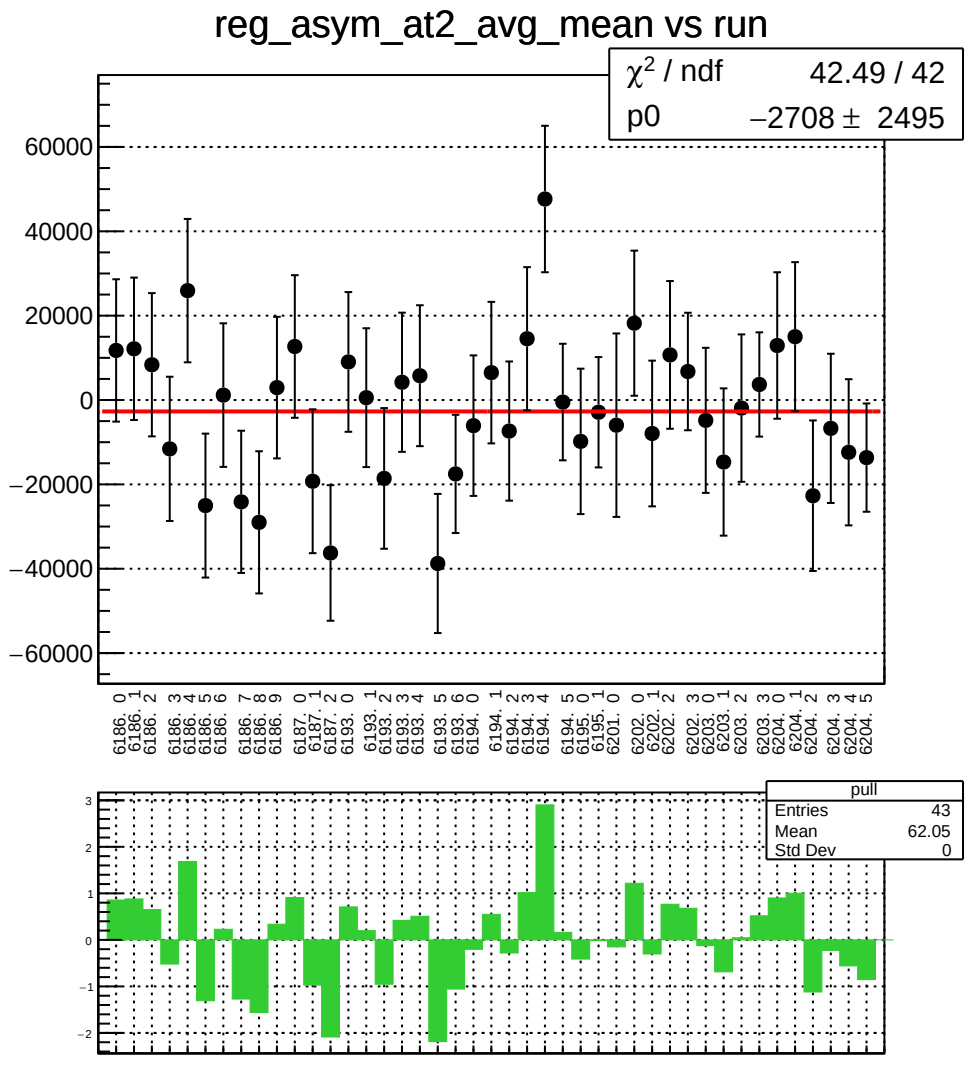

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.122e+04 / 42
p0 34.86 ± 0.03988
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

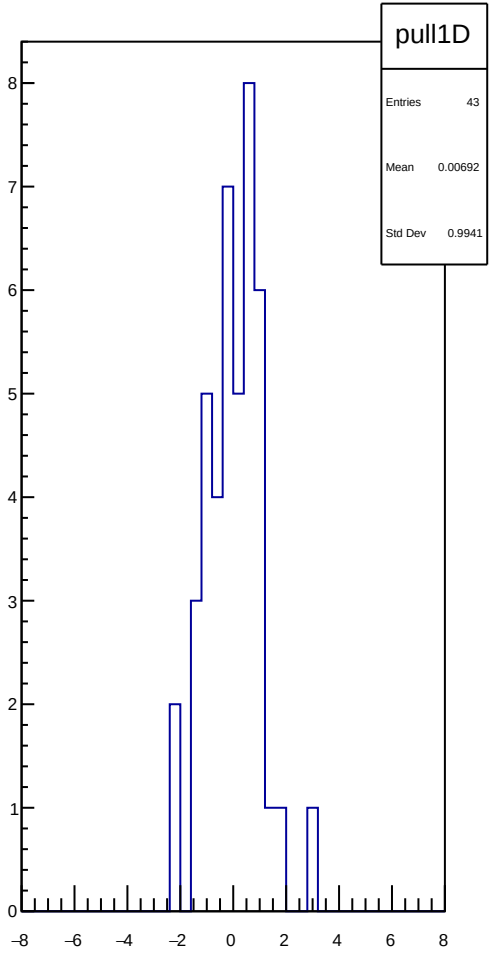

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.62 / 42
p0 −0.002649 ± 0.0564
pull
Entries 43
Mean 50.91
Std Dev 0
pull1D
Entries 43
Mean 0.06724
Std Dev 1.072

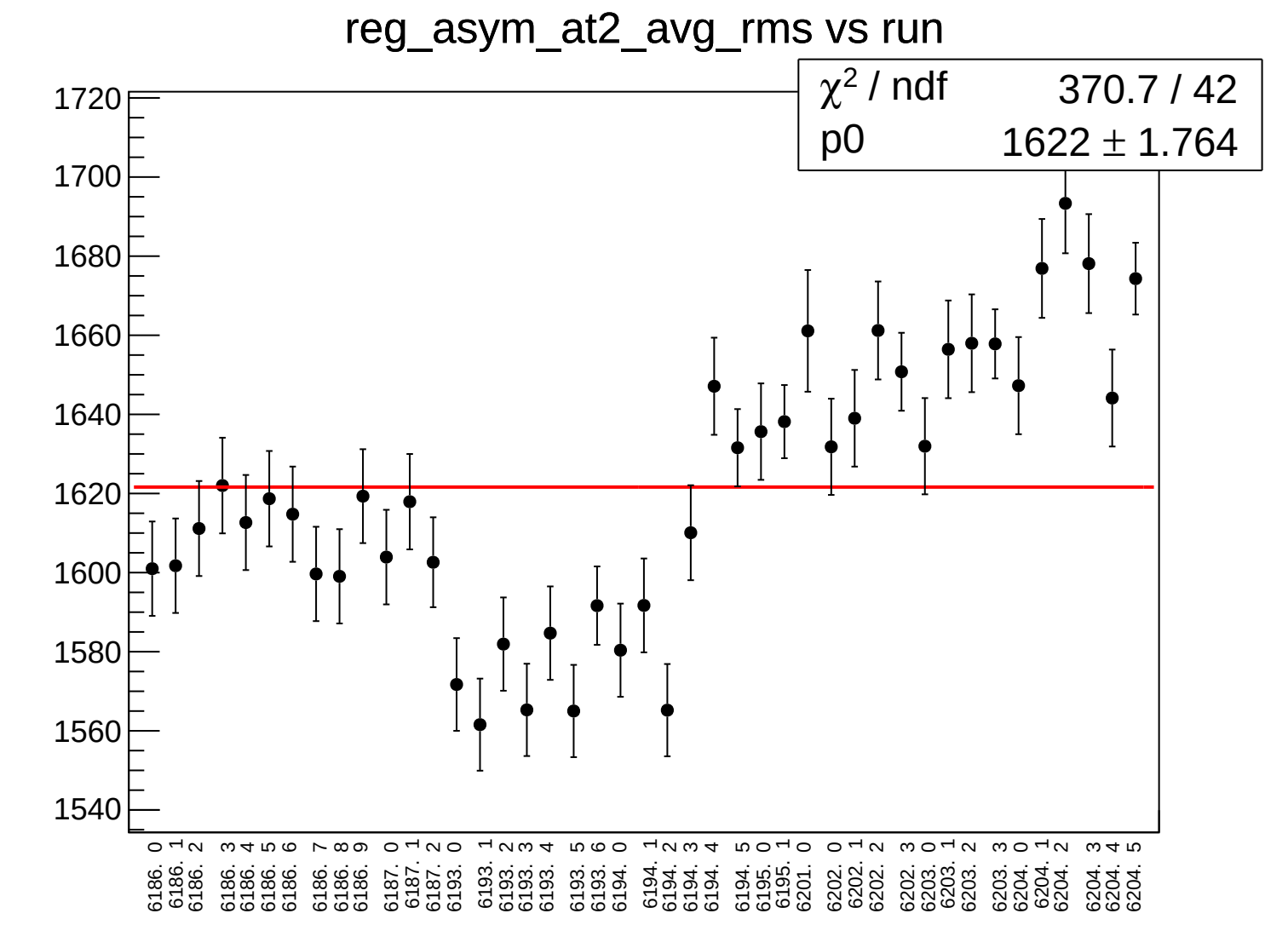

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.122e+04 / 42
p0 34.86 ± 0.03988
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

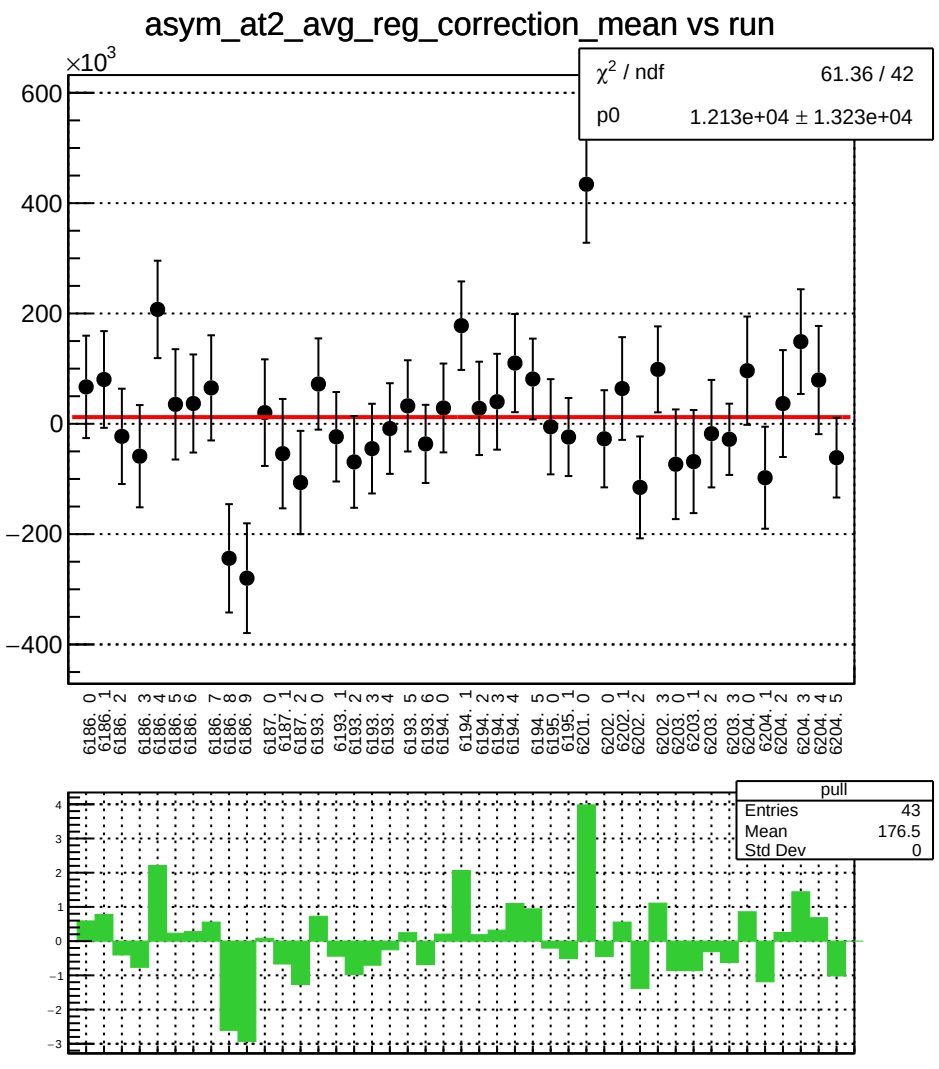

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.34 / 42
p0 5.271e−14 ± 6.092e−14
4
2
0
−2
−4
−6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 89.96
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.05337
Std Dev 1.287
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

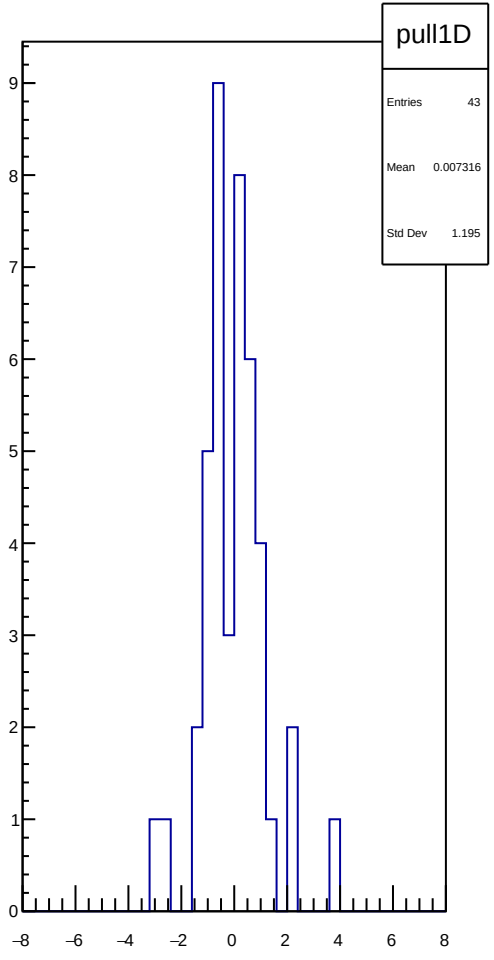

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.199e+05 / 42
p0 3.406e−11 ± 4.307e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

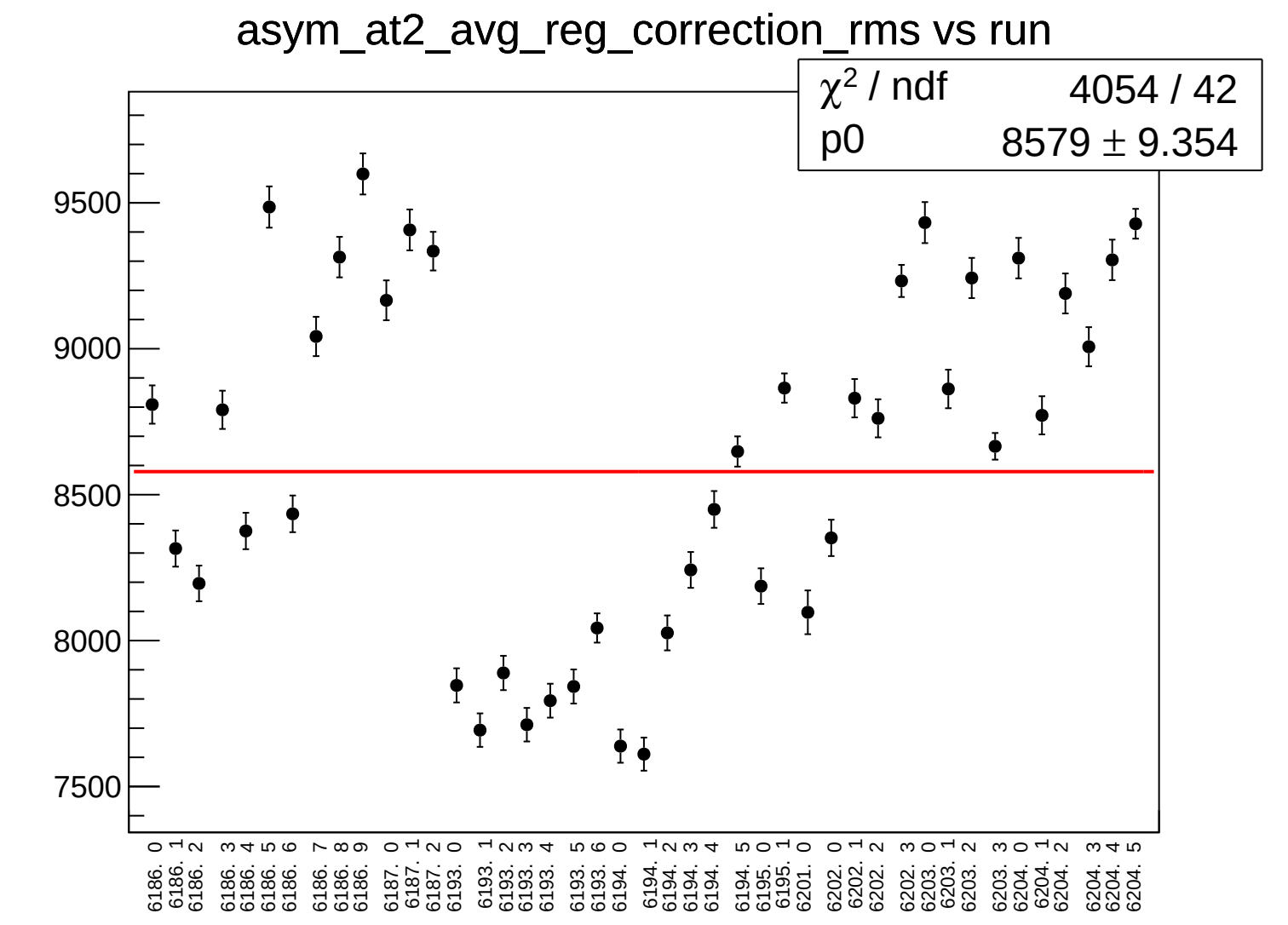

reg_asym_at2_avg_mean vs run
χ² / ndf 42.49 / 42
p0 −2708 ± 2495
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 62.05
Std Dev 0
3
2
1
0
−1
−2

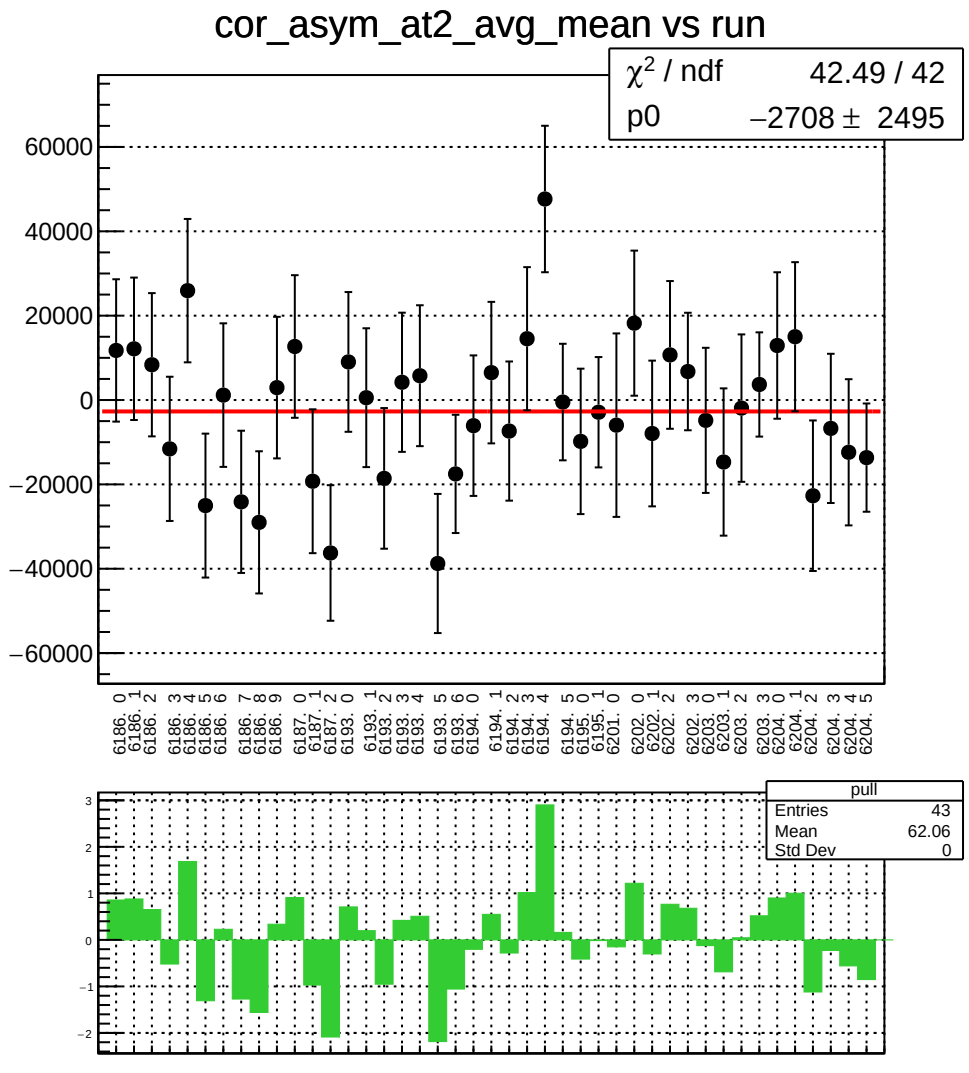

pull1D
Entries 43
Mean 0.00692
Std Dev 0.9941
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

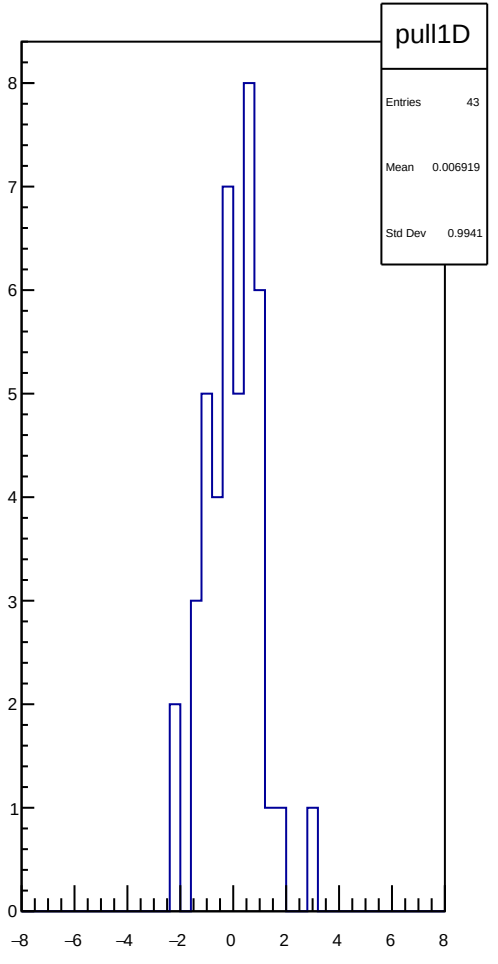

reg_asym_at2_avg_rms vs run
χ² / ndf 370.7 / 42
p0 1622 ± 1.764
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

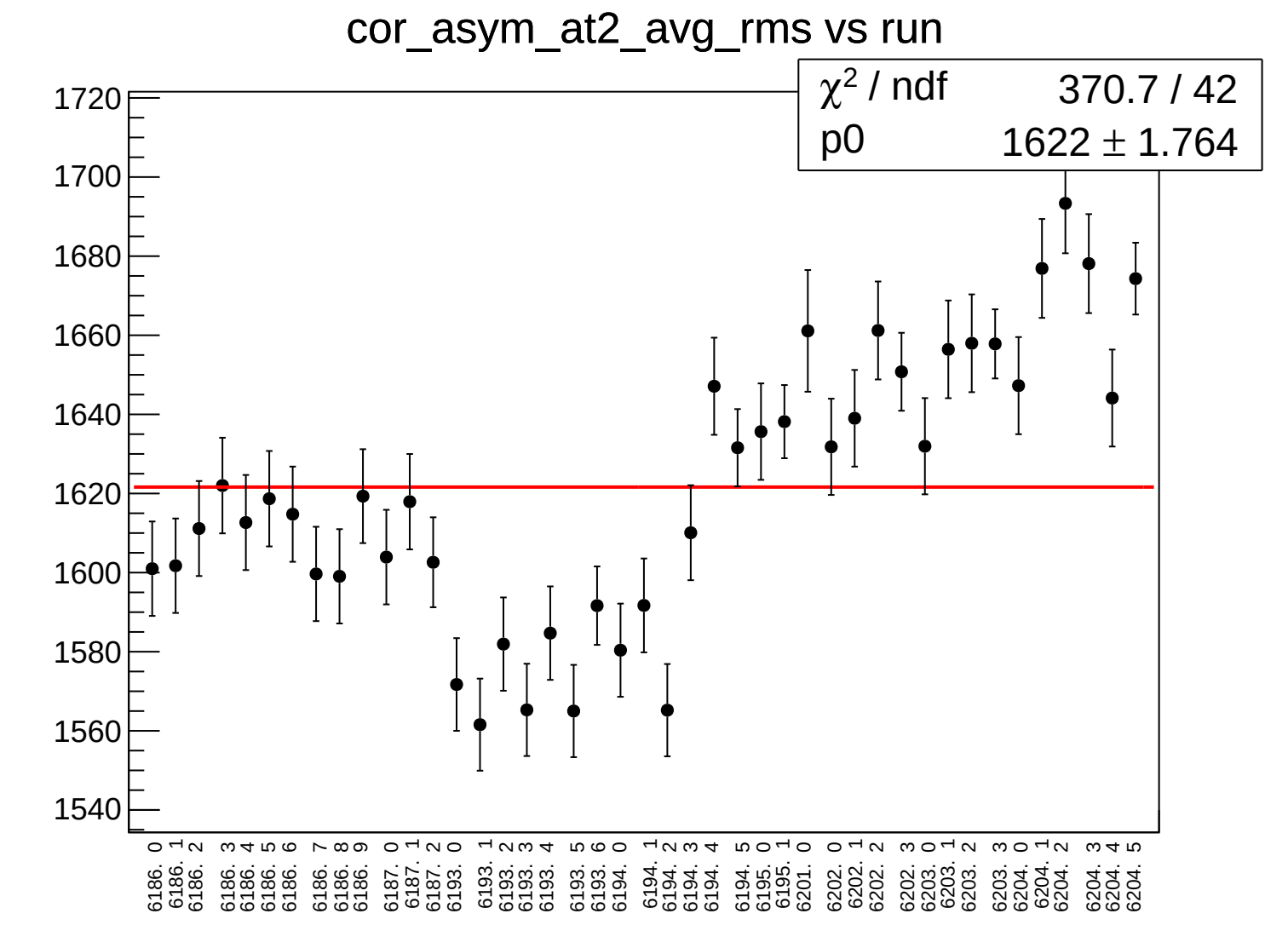

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 61.36 / 42
p0 1.213e+04 ± 1.323e+04
600
400
200
0
−200
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 176.5
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.007316
Std Dev 1.195
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_reg_correction_rms vs run
χ² / ndf 4054 / 42
p0 8579 ± 9.354
9500
9000
8500
8000
7500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_at2_avg_mean vs run
χ² / ndf 42.49 / 42
p0 −2708 ± 2495
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 62.06
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.006919
Std Dev 0.9941
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at2_avg_rms vs run
χ² / ndf 370.7 / 42
p0 1622 ± 1.764
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
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6204. 2
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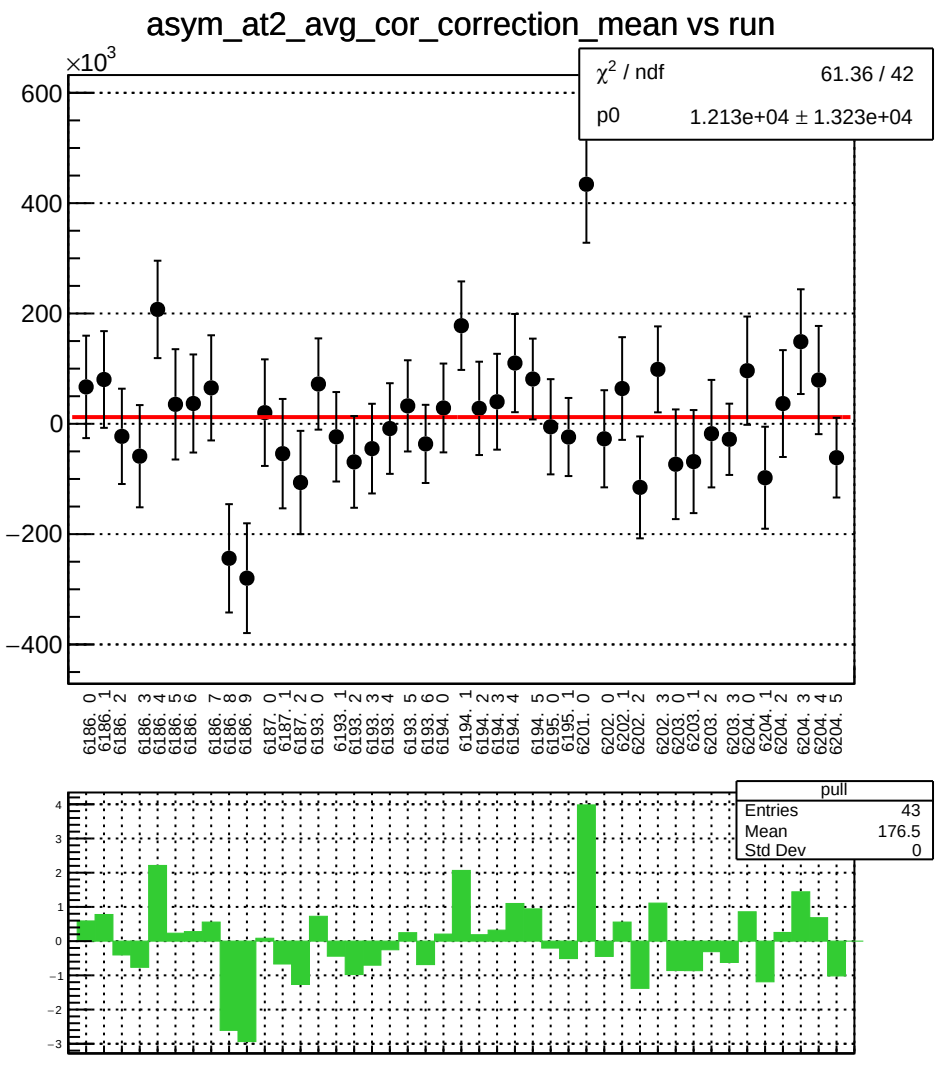
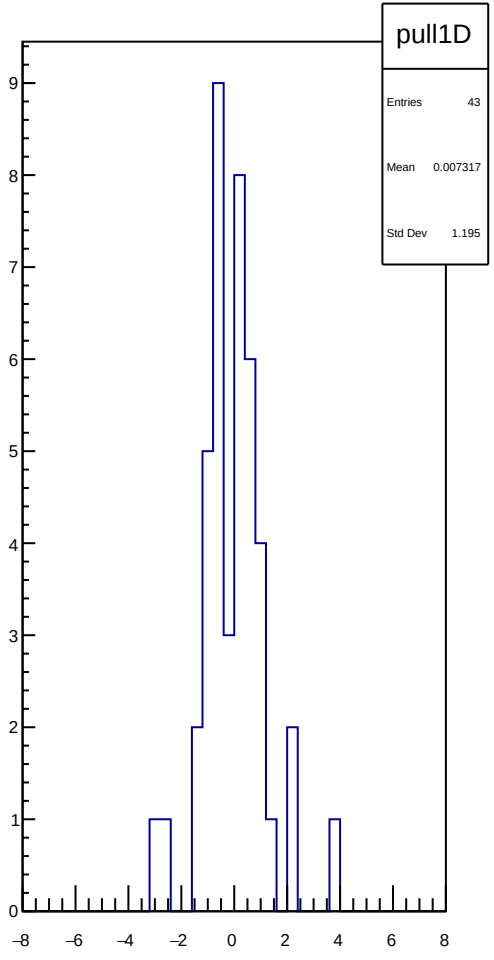
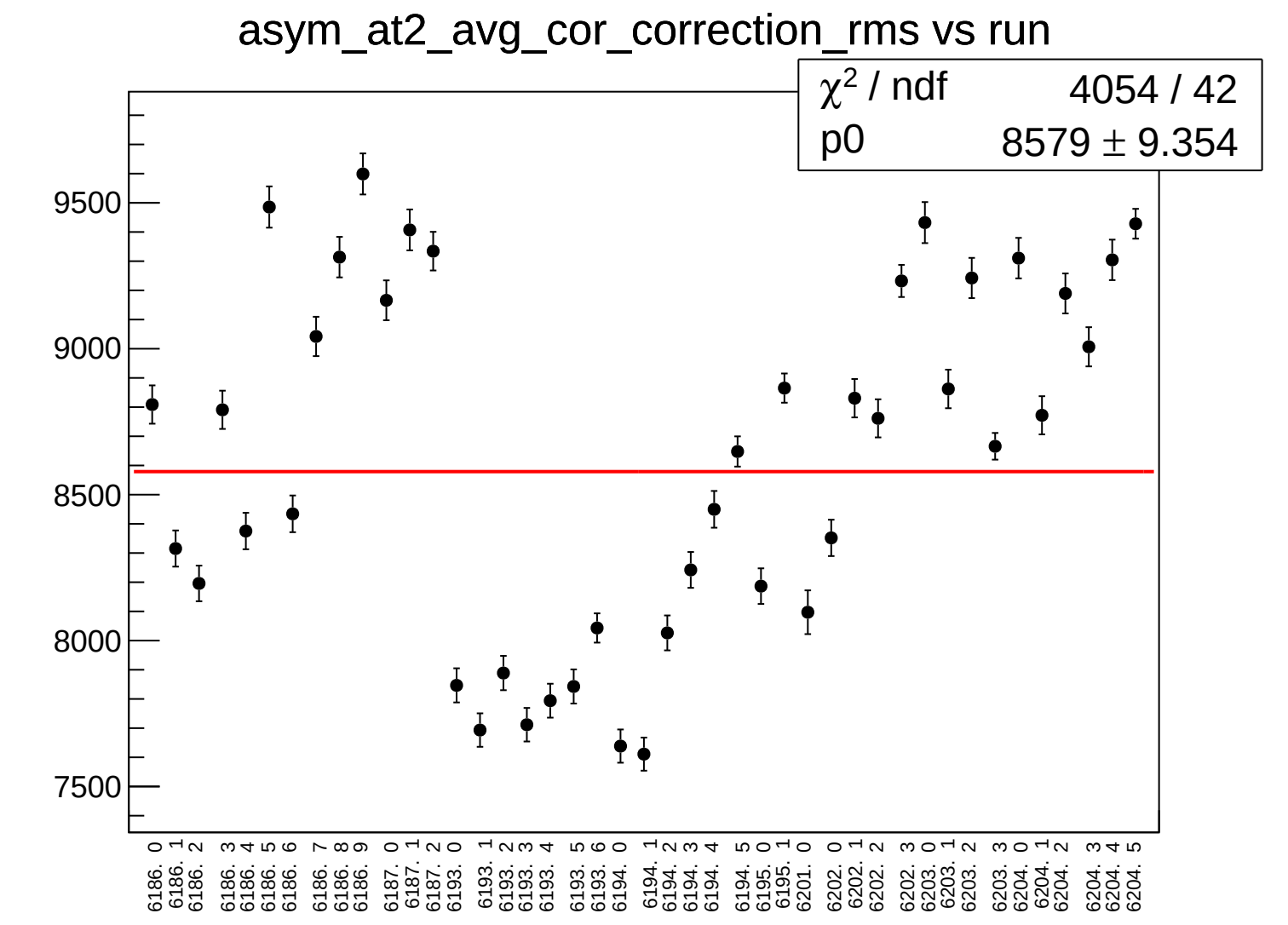
6204. 4
6204. 5


asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 61.36 / 42
p0 1.213e+04 ± 1.323e+04
600
400
200
0
−200
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 176.5
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.007317
Std Dev 1.195
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_cor_correction_rms vs run
χ² / ndf 4054 / 42
p0 8579 ± 9.354
9500
9000
8500
8000
7500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
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6203. 2
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6204. 0
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6204. 2
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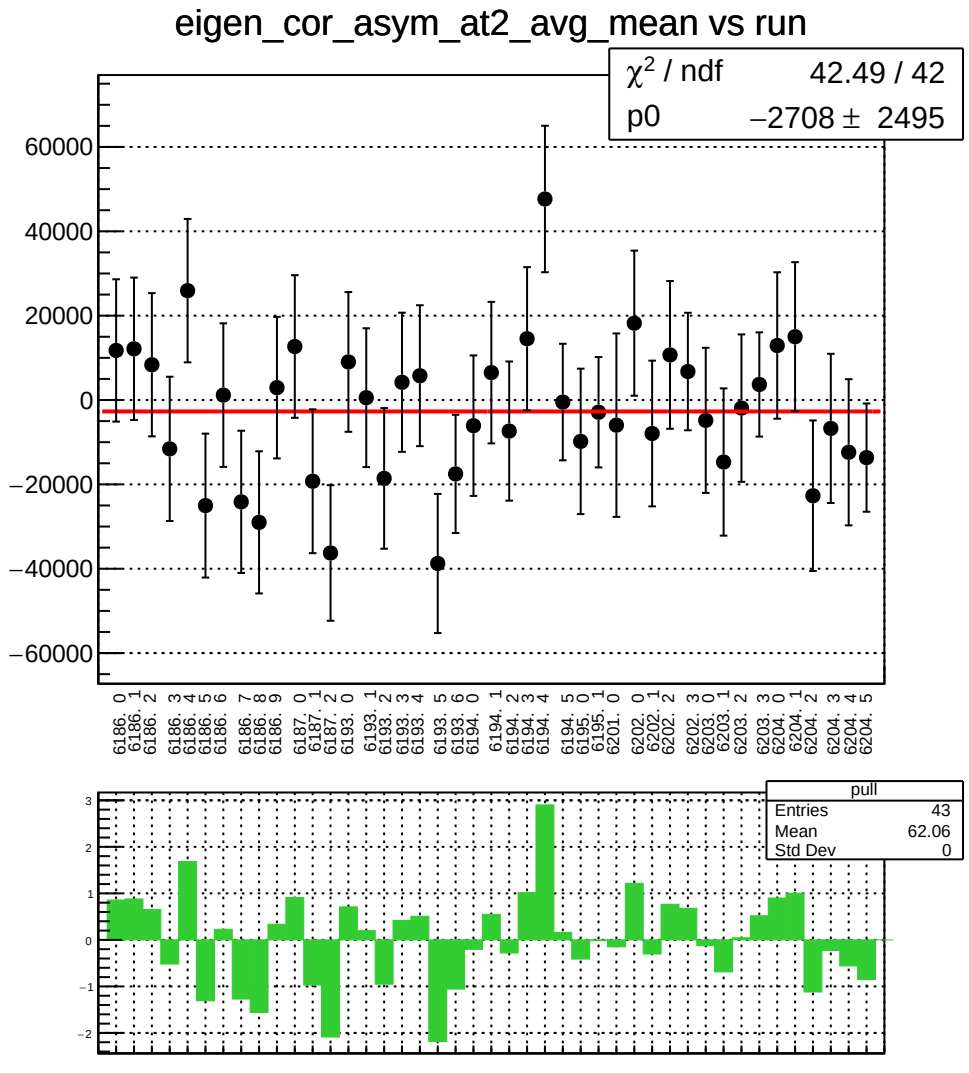
6204. 4
6204. 5


eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 42.49 / 42
p0 −2708 ± 2495
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
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6202. 2
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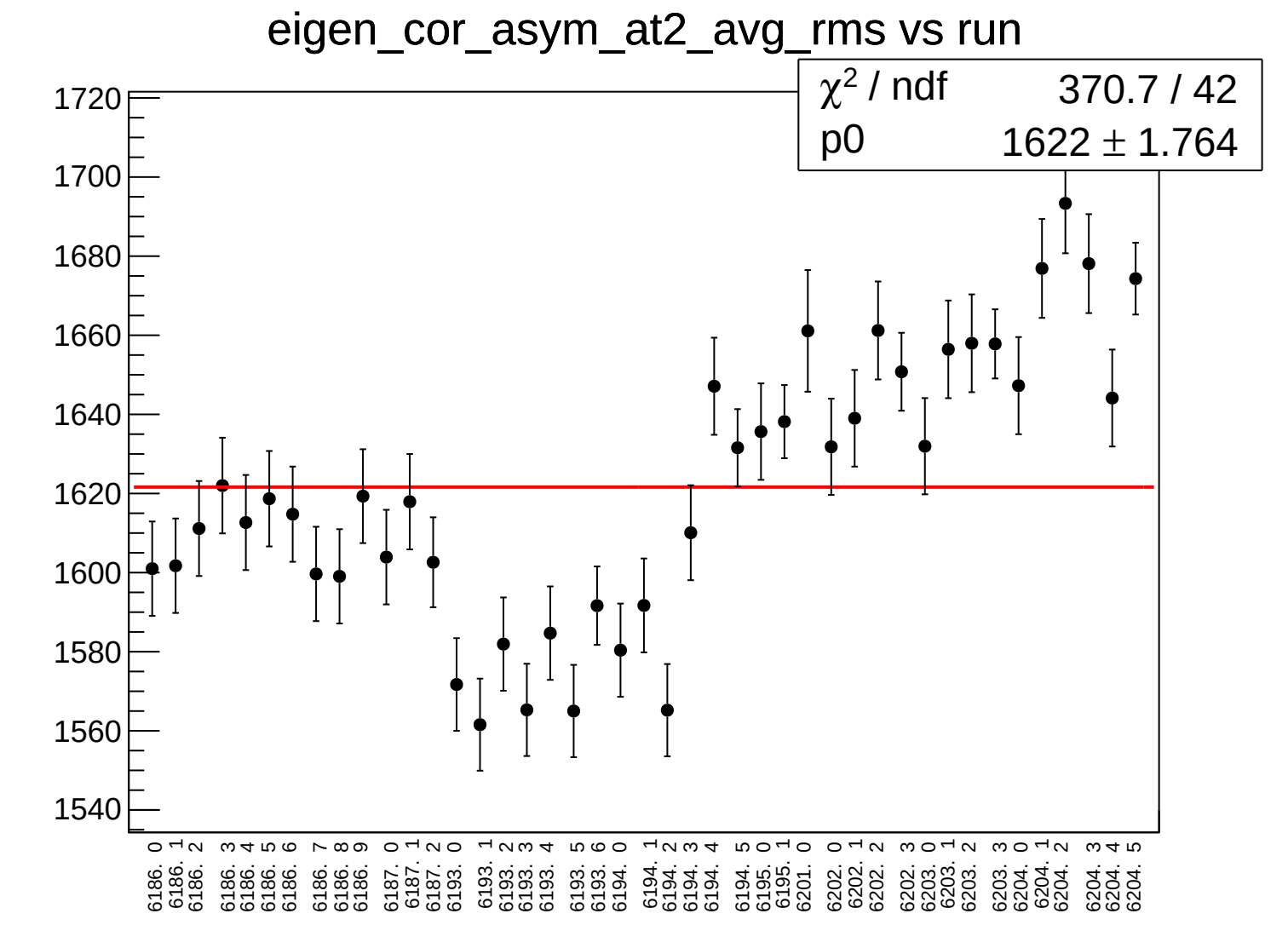
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 62.06
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.006919
Std Dev 0.9941
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 370.7 / 42
p0 1622 ± 1.764
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
6204. 0
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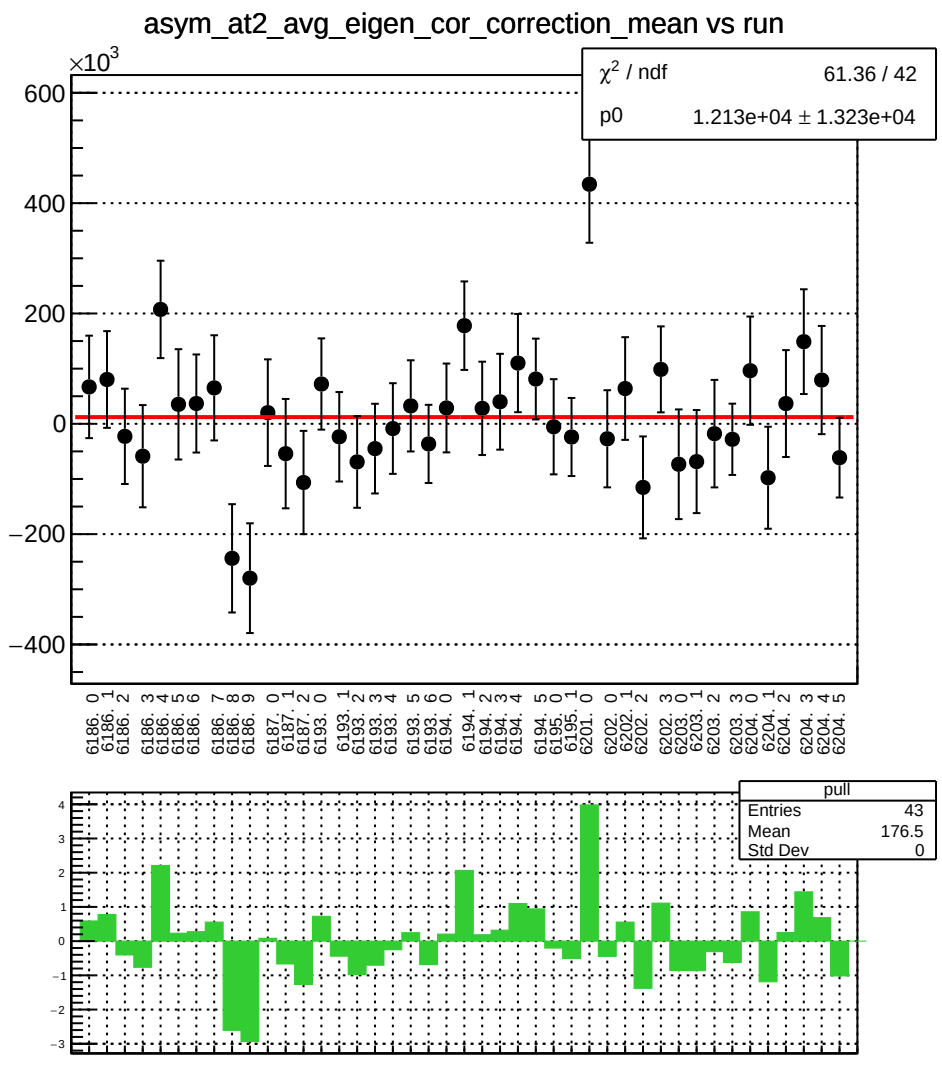
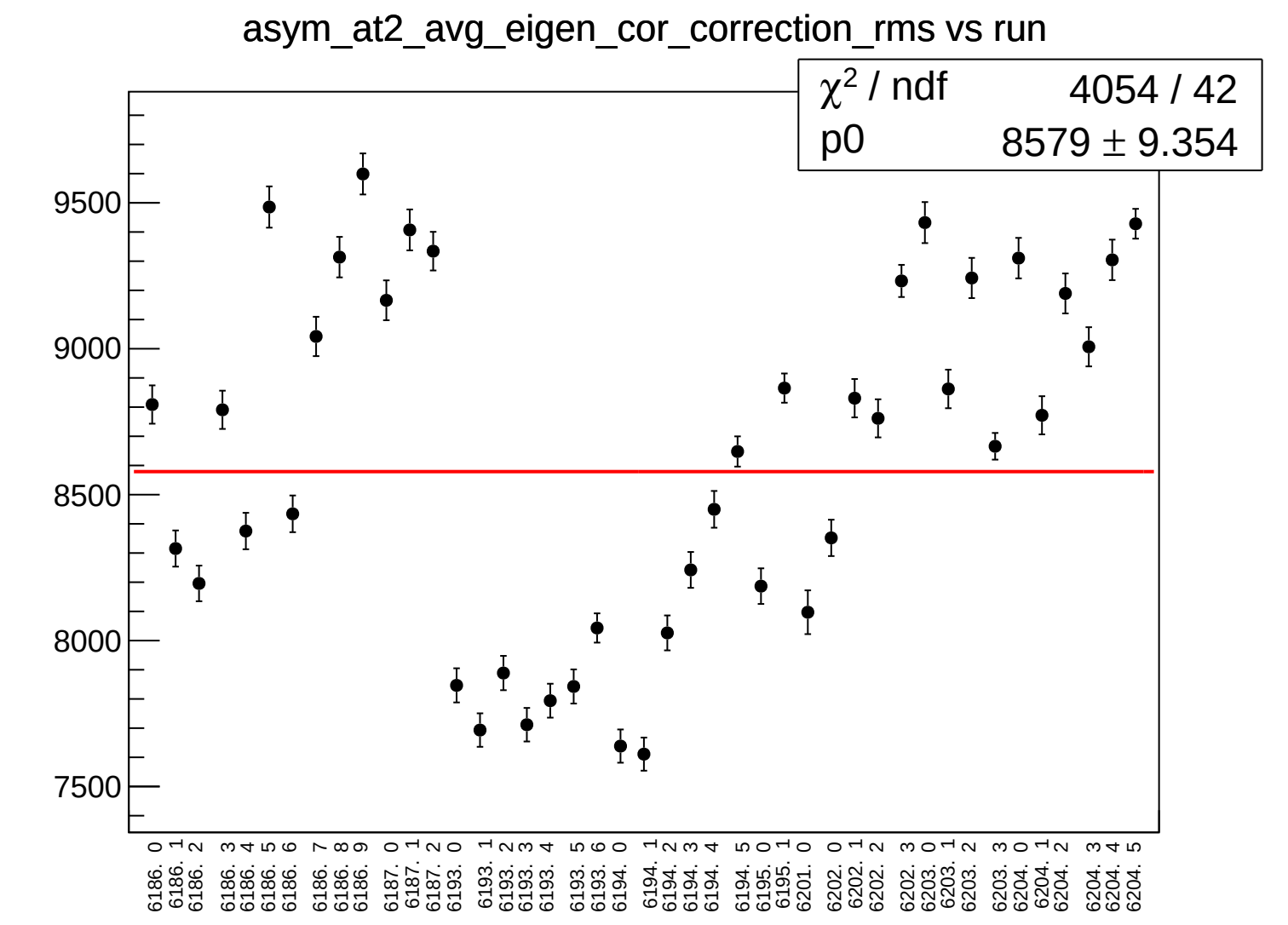
6204. 2
6204. 3
6204. 4
6204. 5


asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 61.36 / 42
p0 1.213e+04 ± 1.323e+04
600
400
200
0
−200
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 176.5
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.007317
Std Dev 1.195
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4054 / 42
p0 8579 ± 9.354
9500
9000
8500
8000
7500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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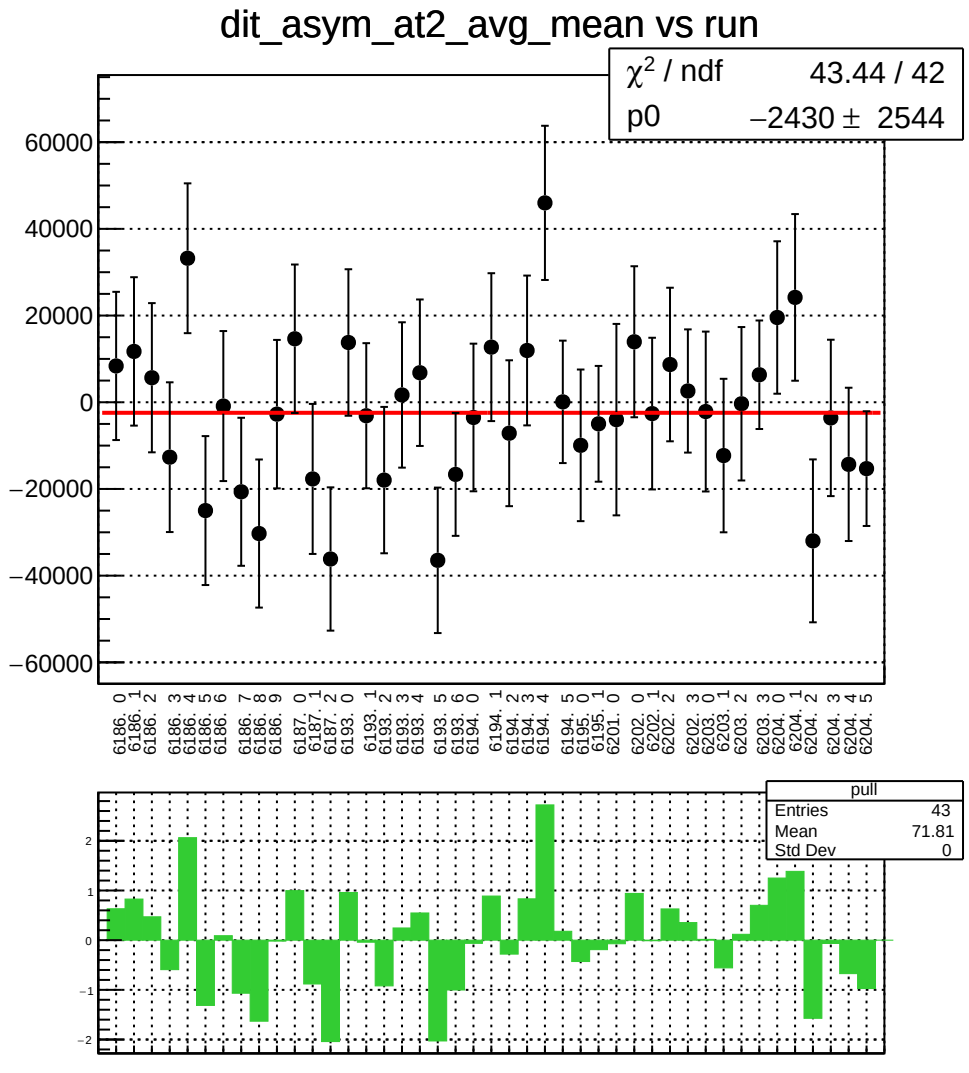
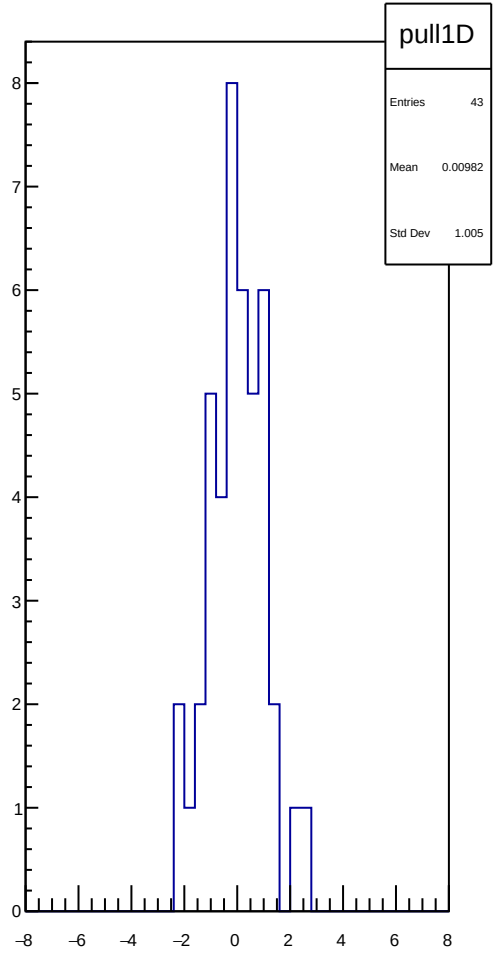
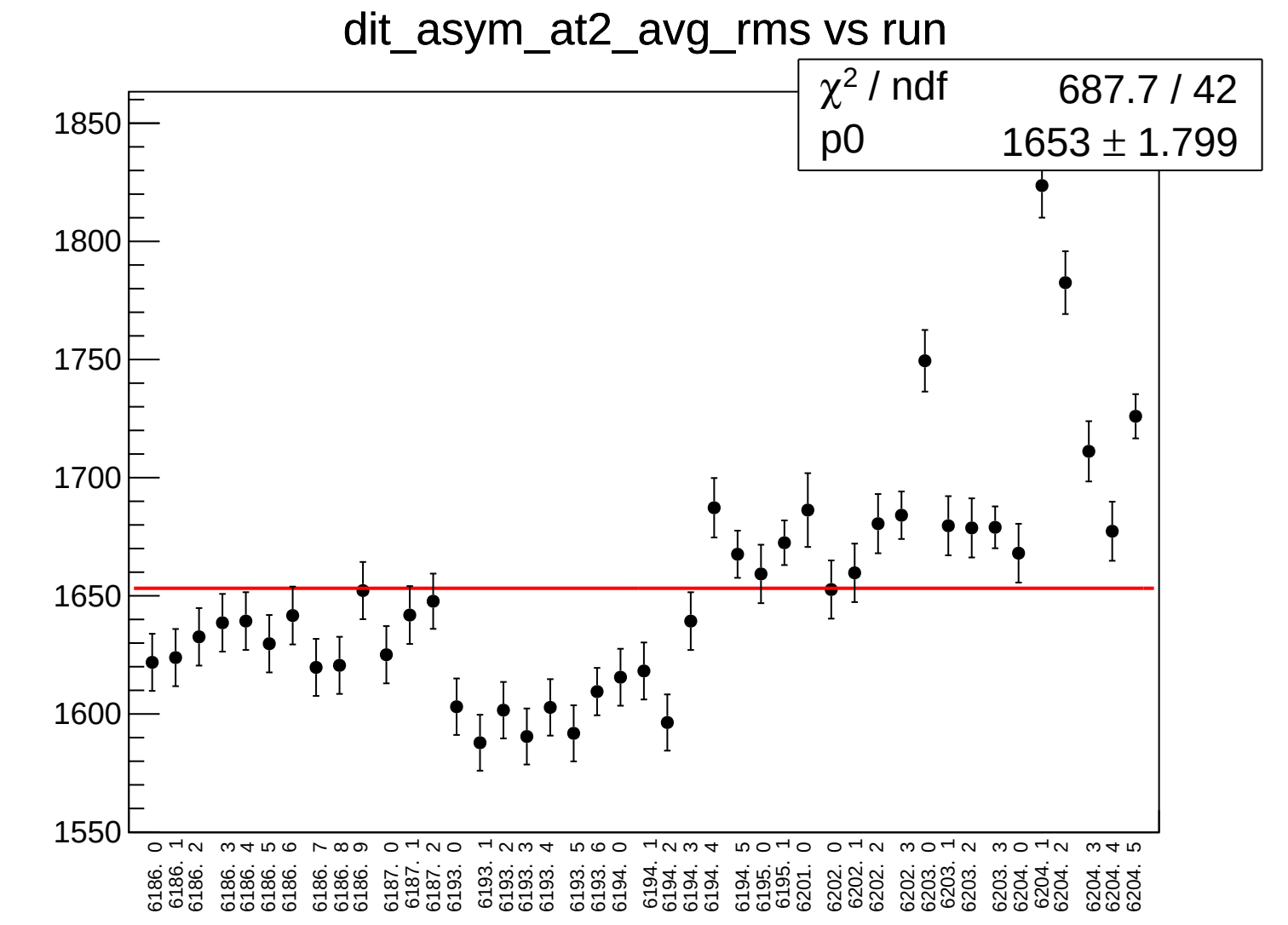
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_at2_avg_mean vs run
χ² / ndf 43.44 / 42
p0 −2430 ± 2544
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 71.81
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.00982
Std Dev 1.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at2_avg_rms vs run
χ² / ndf 687.7 / 42
p0 1653 ± 1.799
1850
1800
1750
1700
1650
1600
1550
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
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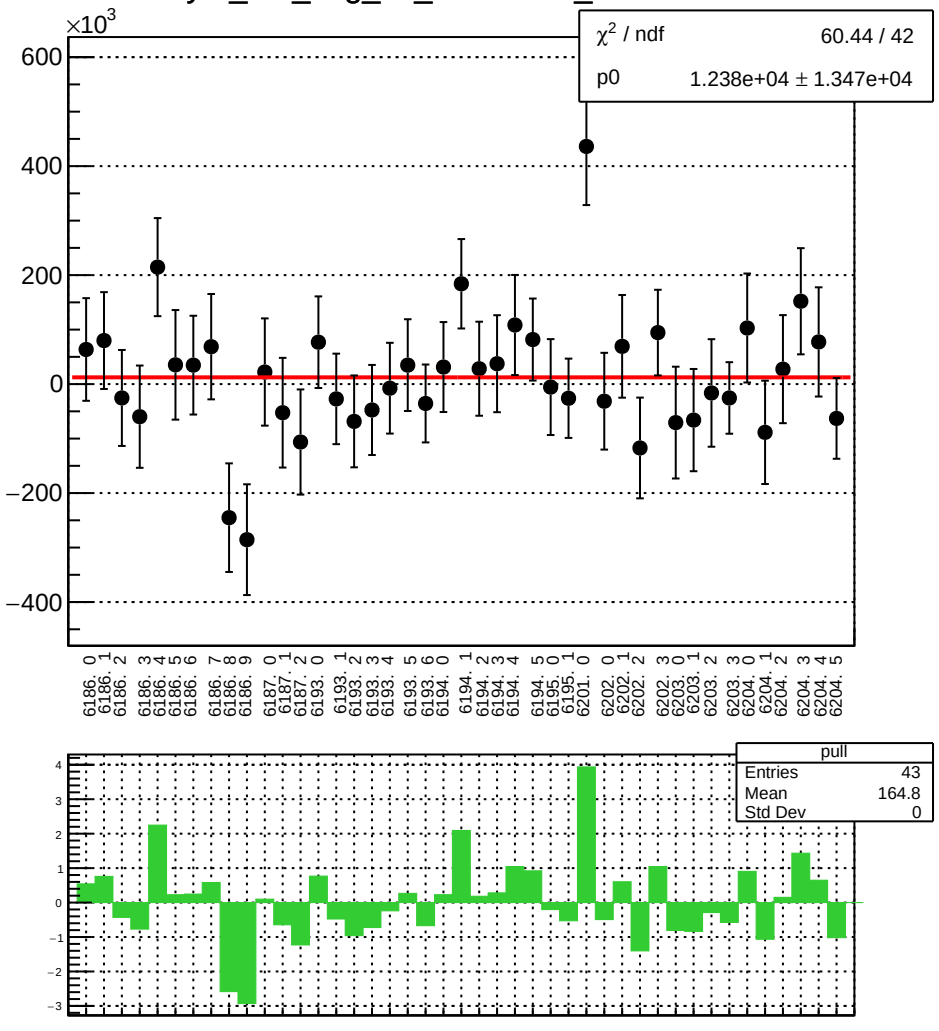
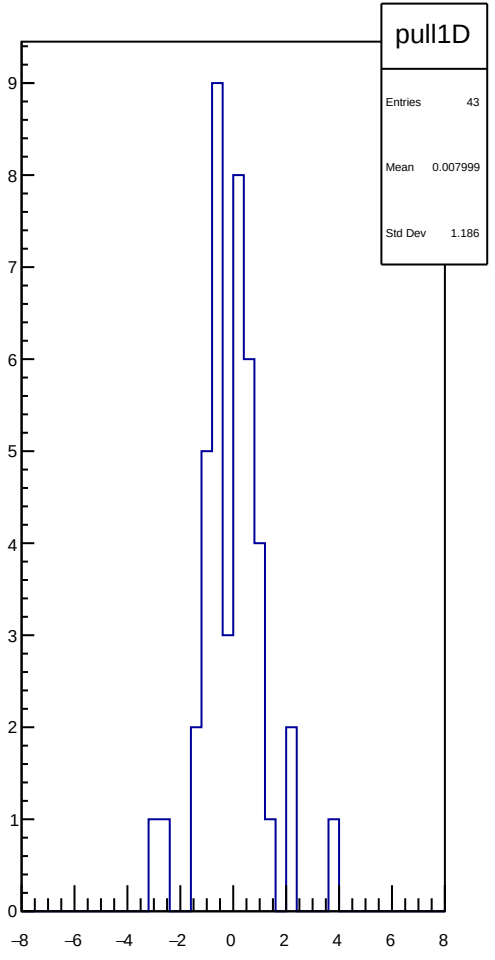
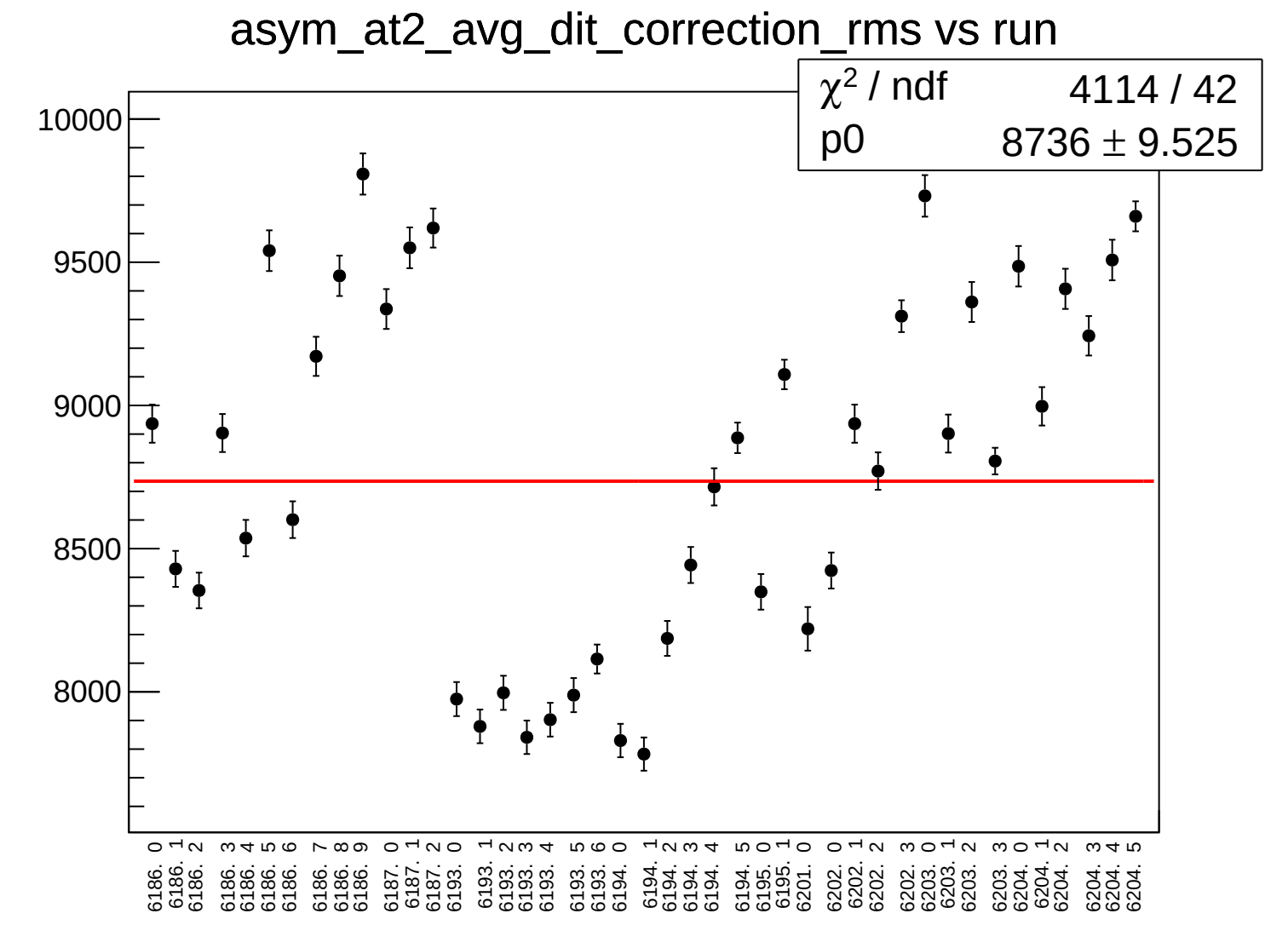
6204. 4
6204. 5


asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 60.44 / 42
p0 1.238e+04 ± 1.347e+04
pull
Entries 43
Mean 164.8
Std Dev 0


pull1D
Entries 43
Mean 0.007999
Std Dev 1.186


asym_at2_avg_dit_correction_rms vs run
χ² / ndf 4114 / 42
p0 8736 ± 9.525
10000
9500
9000
8500
8000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
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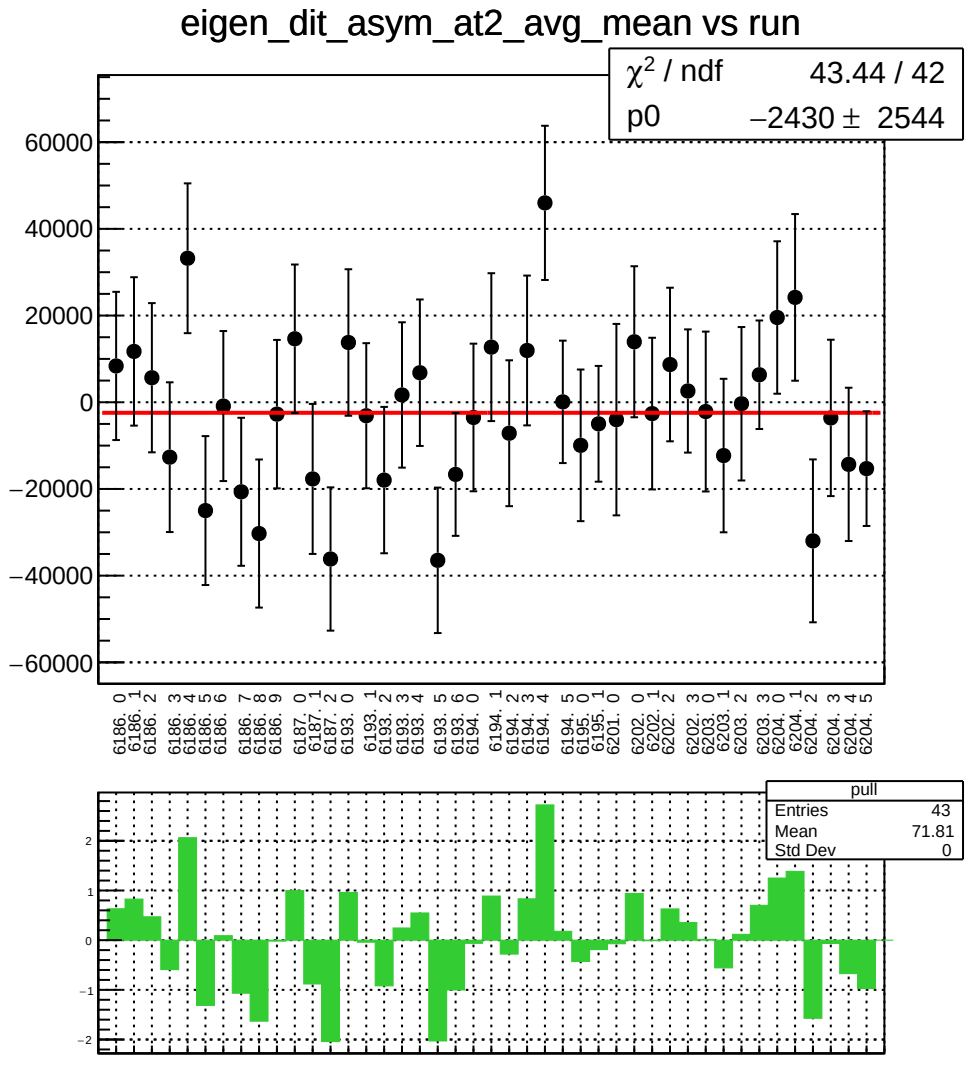
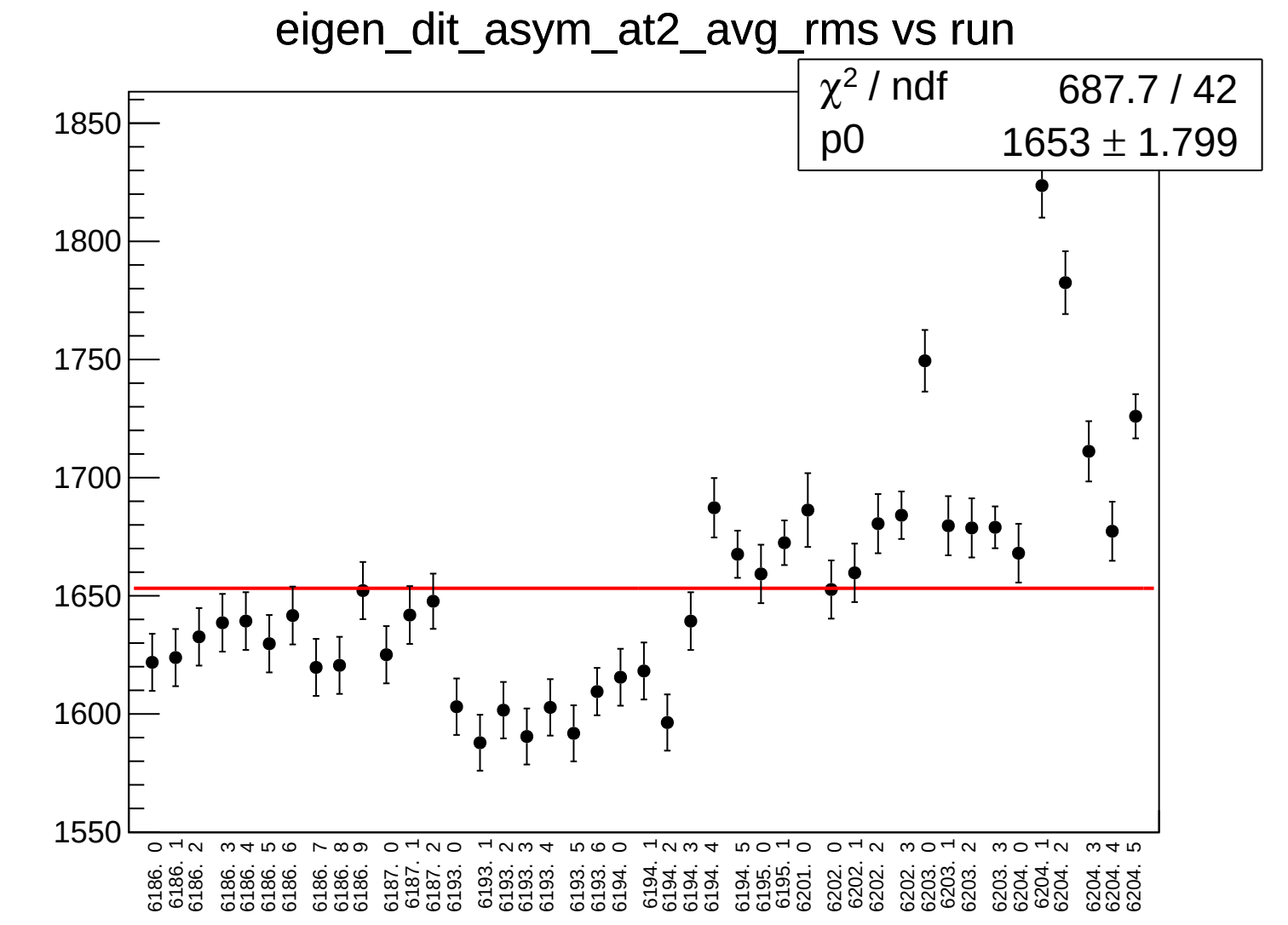
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 43.44 / 42
p0 −2430 ± 2544
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 71.81
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.00982
Std Dev 1.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 687.7 / 42
p0 1653 ± 1.799
1850
1800
1750
1700
1650
1600
1550
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 4
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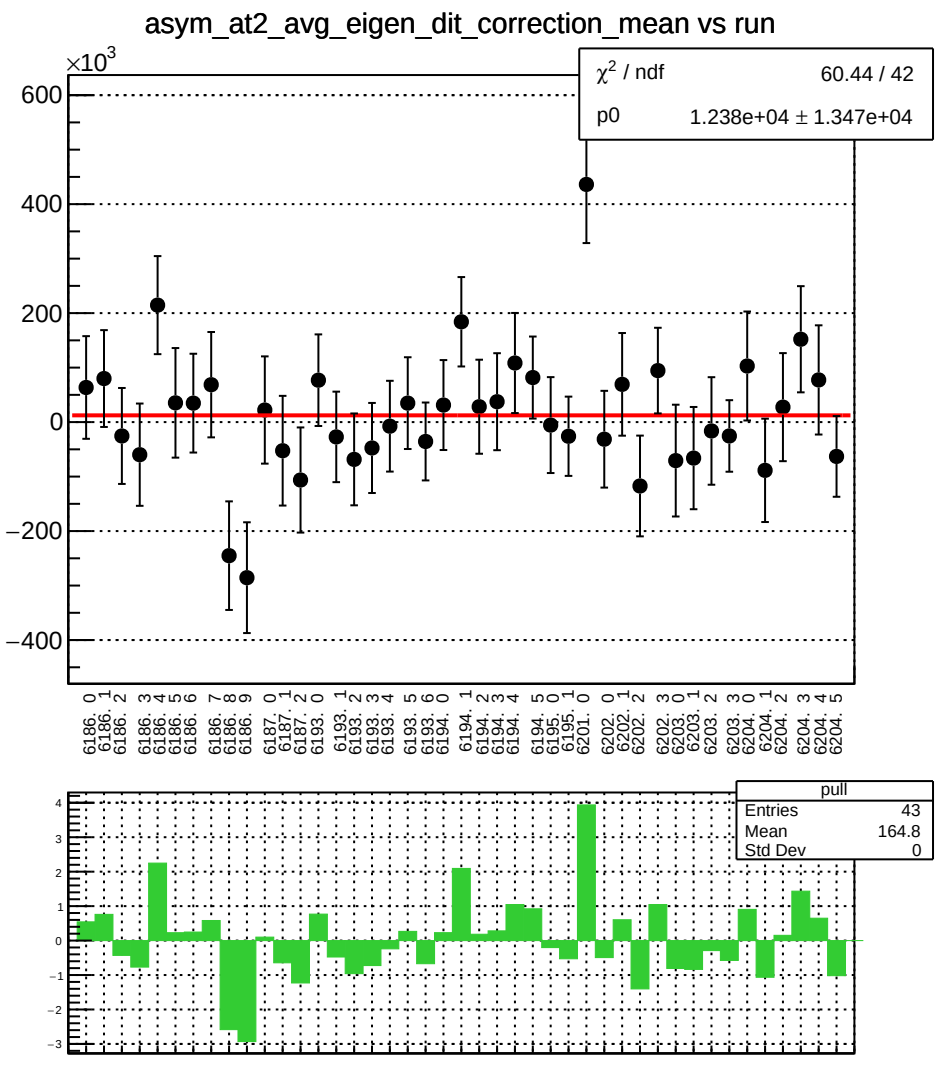
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 60.44 / 42
p0 1.238e+04 ± 1.347e+04
600
400
200
0
−200
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
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6186. 9
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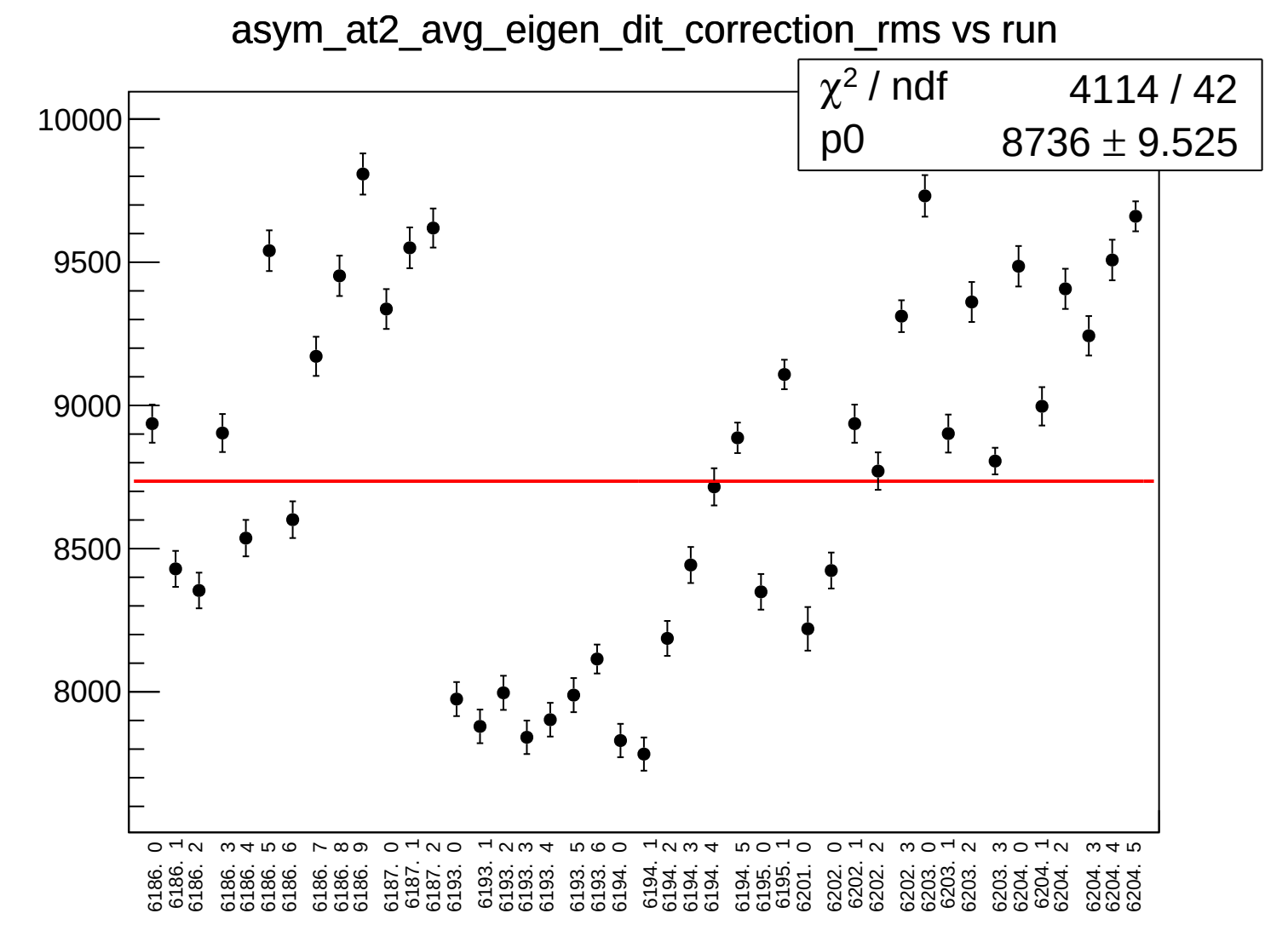
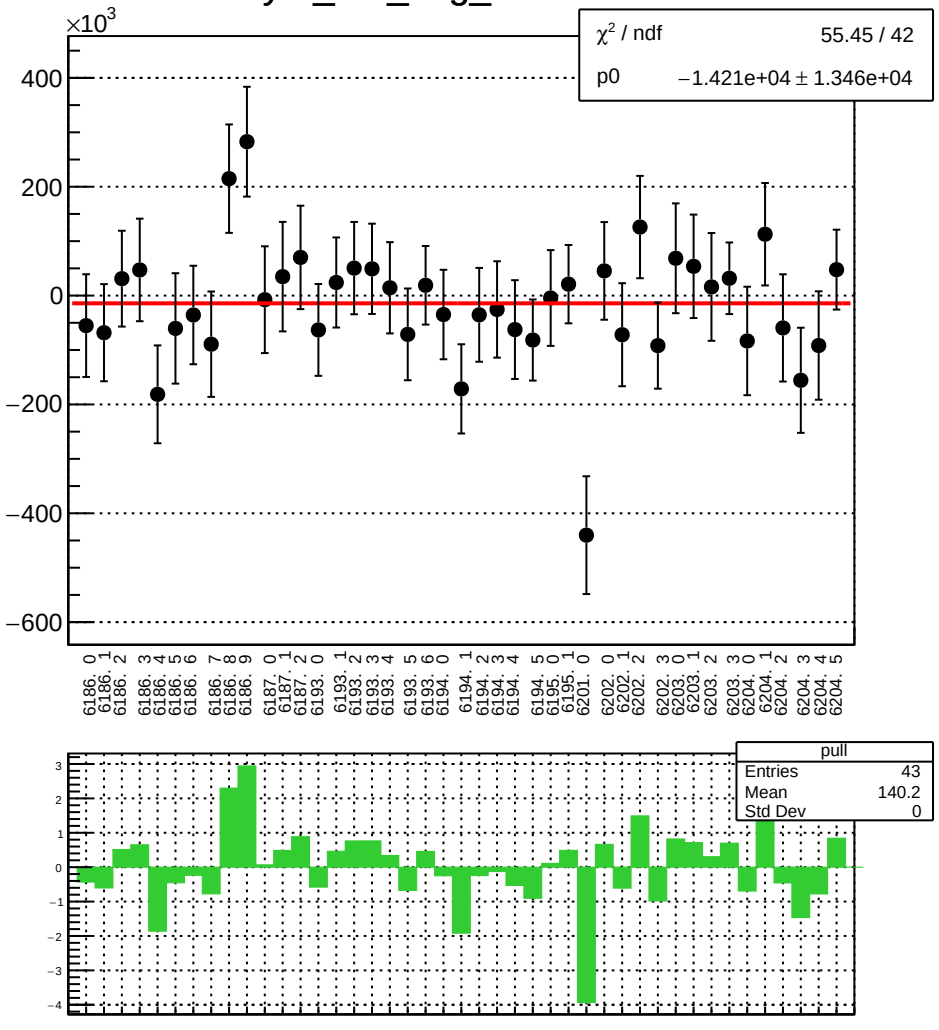
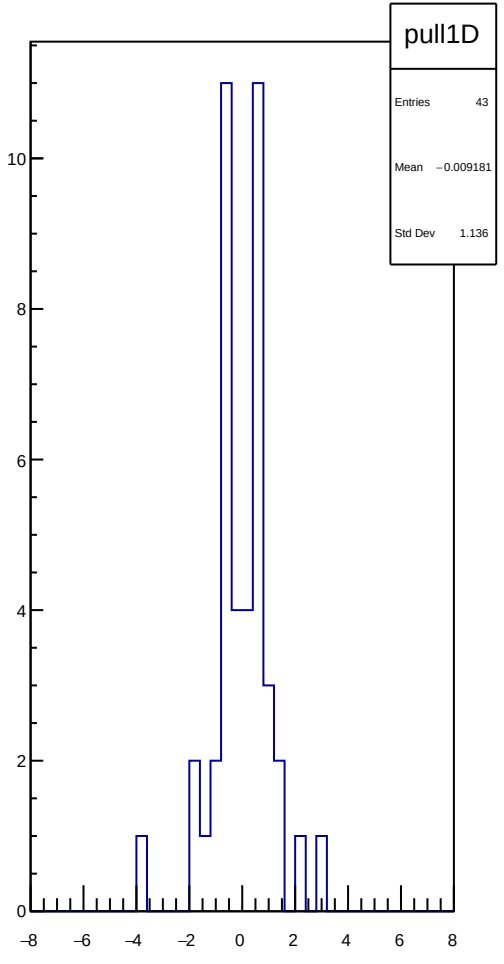
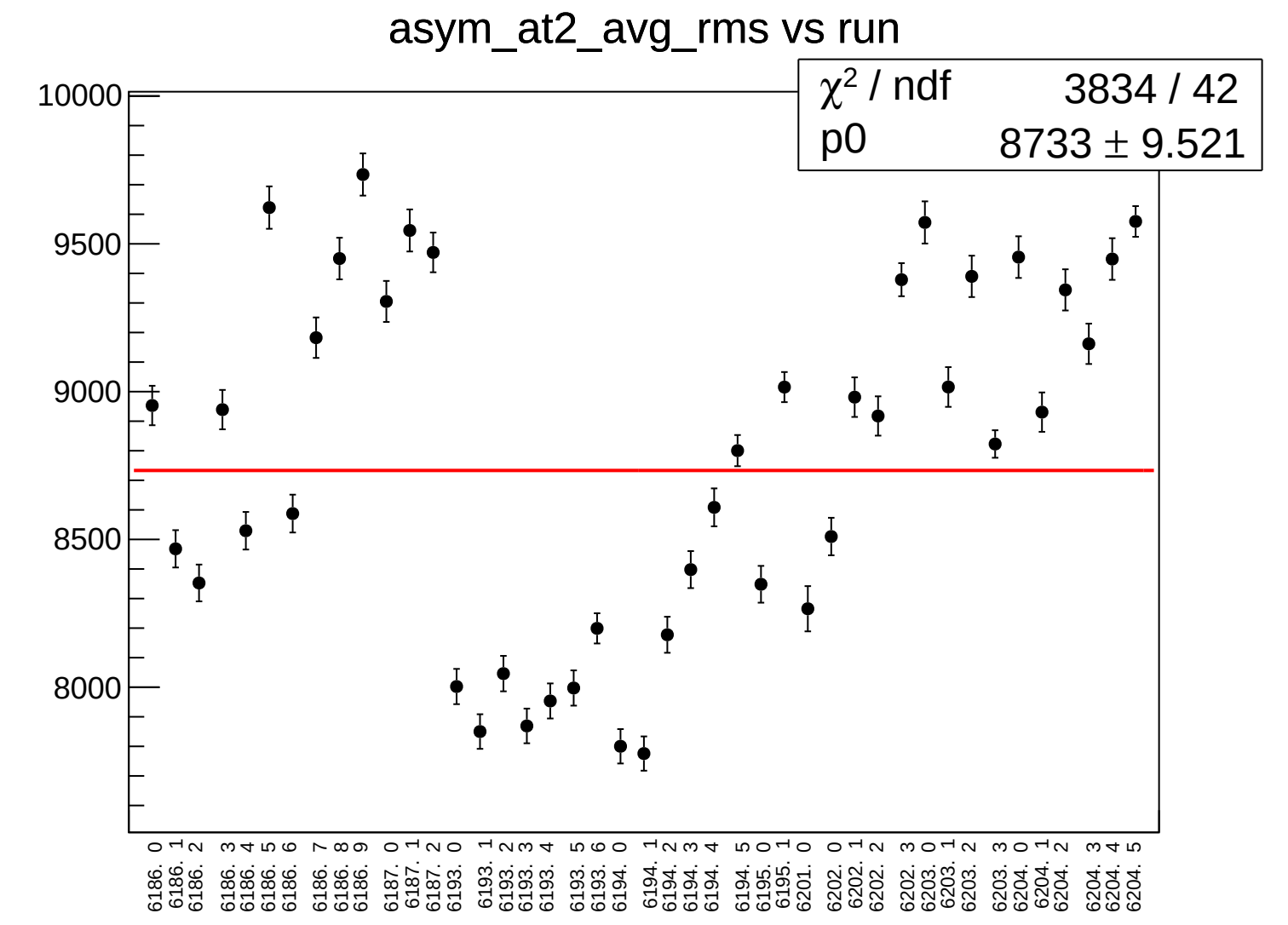
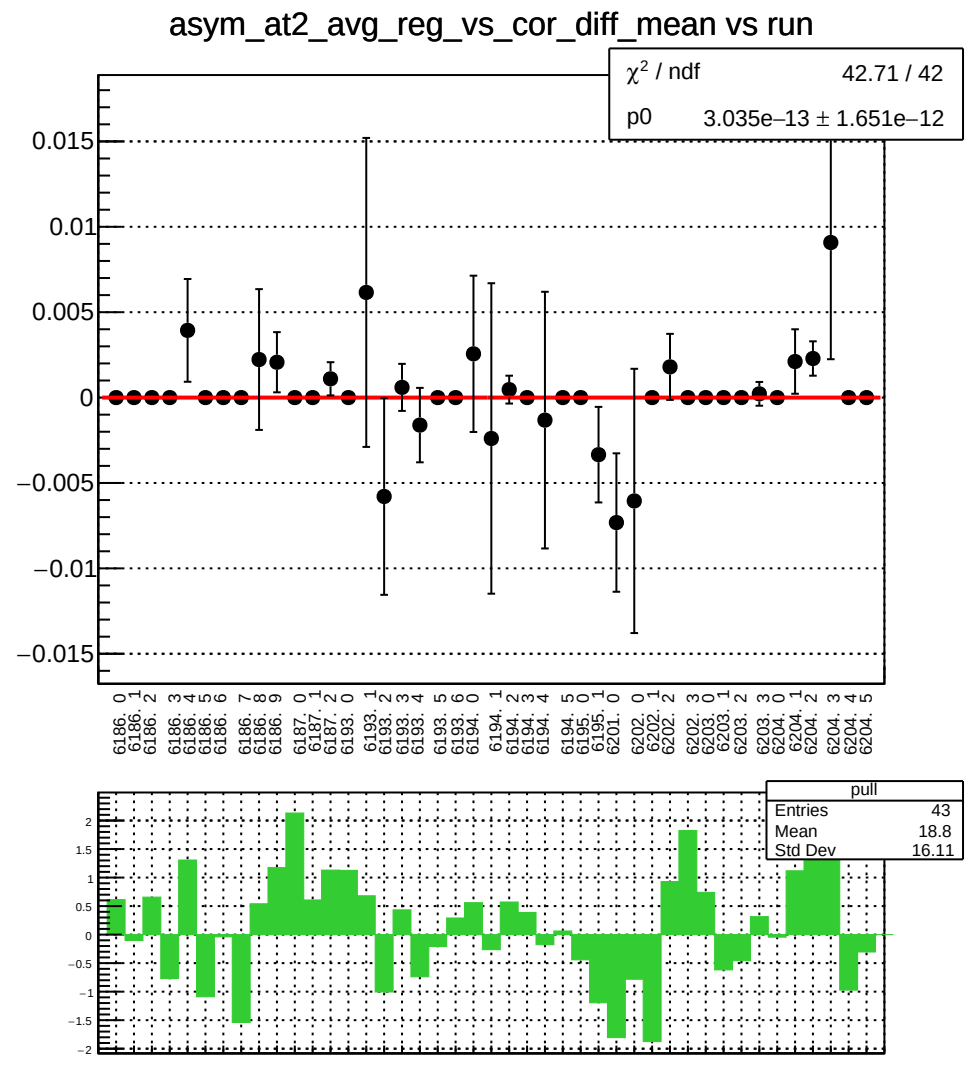
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 164.8
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.007999
Std Dev 1.186
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

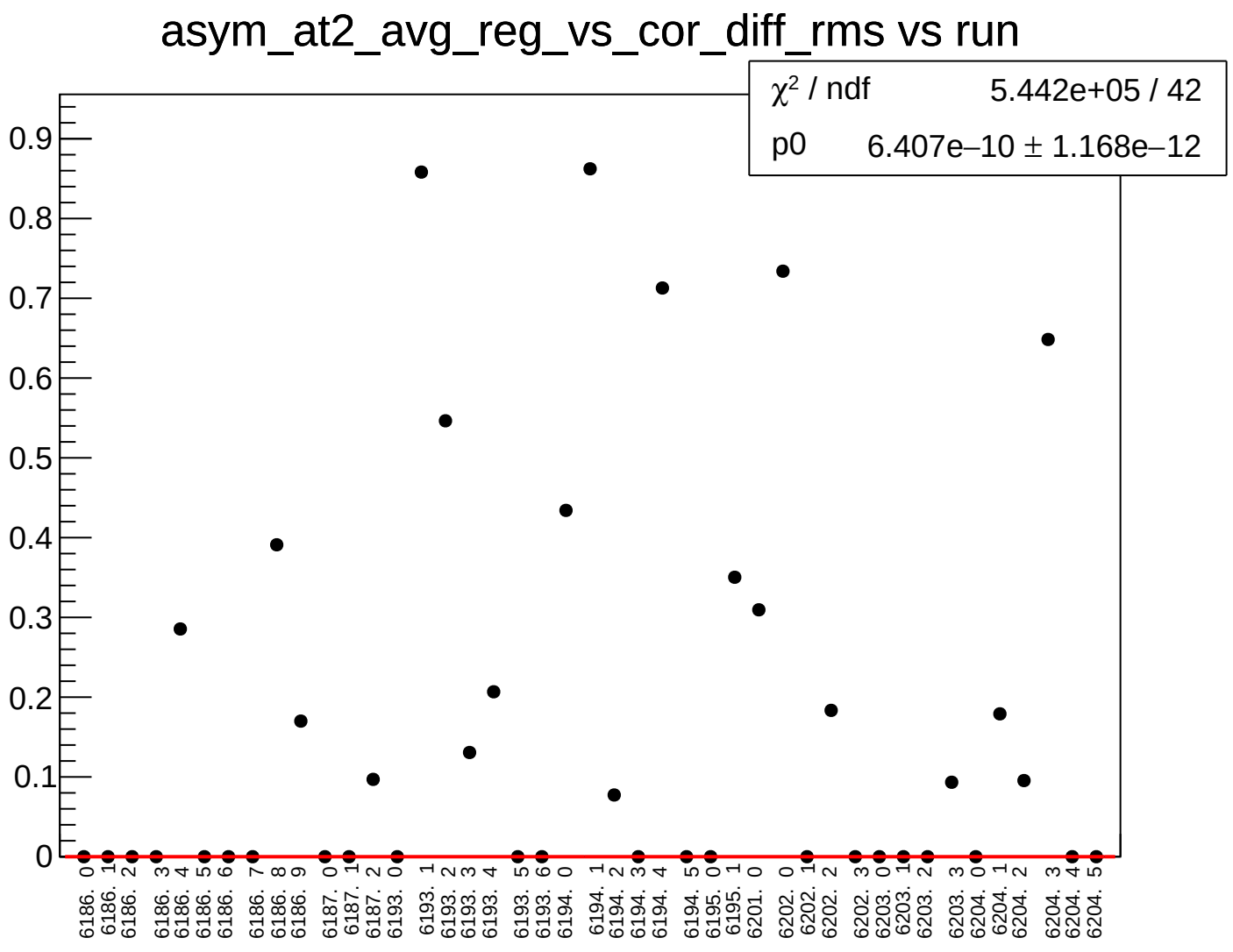

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4114 / 42
p0 8736 ± 9.525
10000
9500
9000
8500
8000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

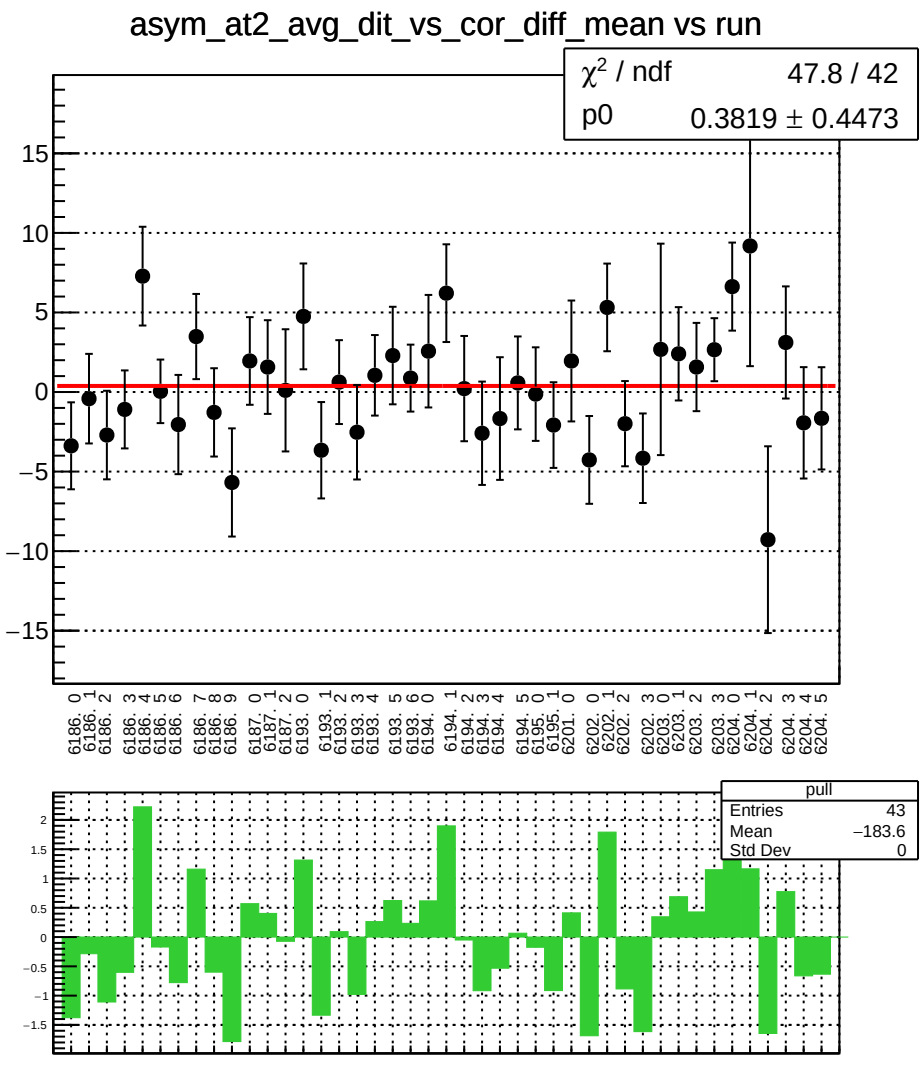

asym_at2_avg_mean vs run
×10^3
χ² / ndf 55.45 / 42
p0 −1.421e+04 ± 1.346e+04
pull
Entries 43
Mean 140.2
Std Dev 0

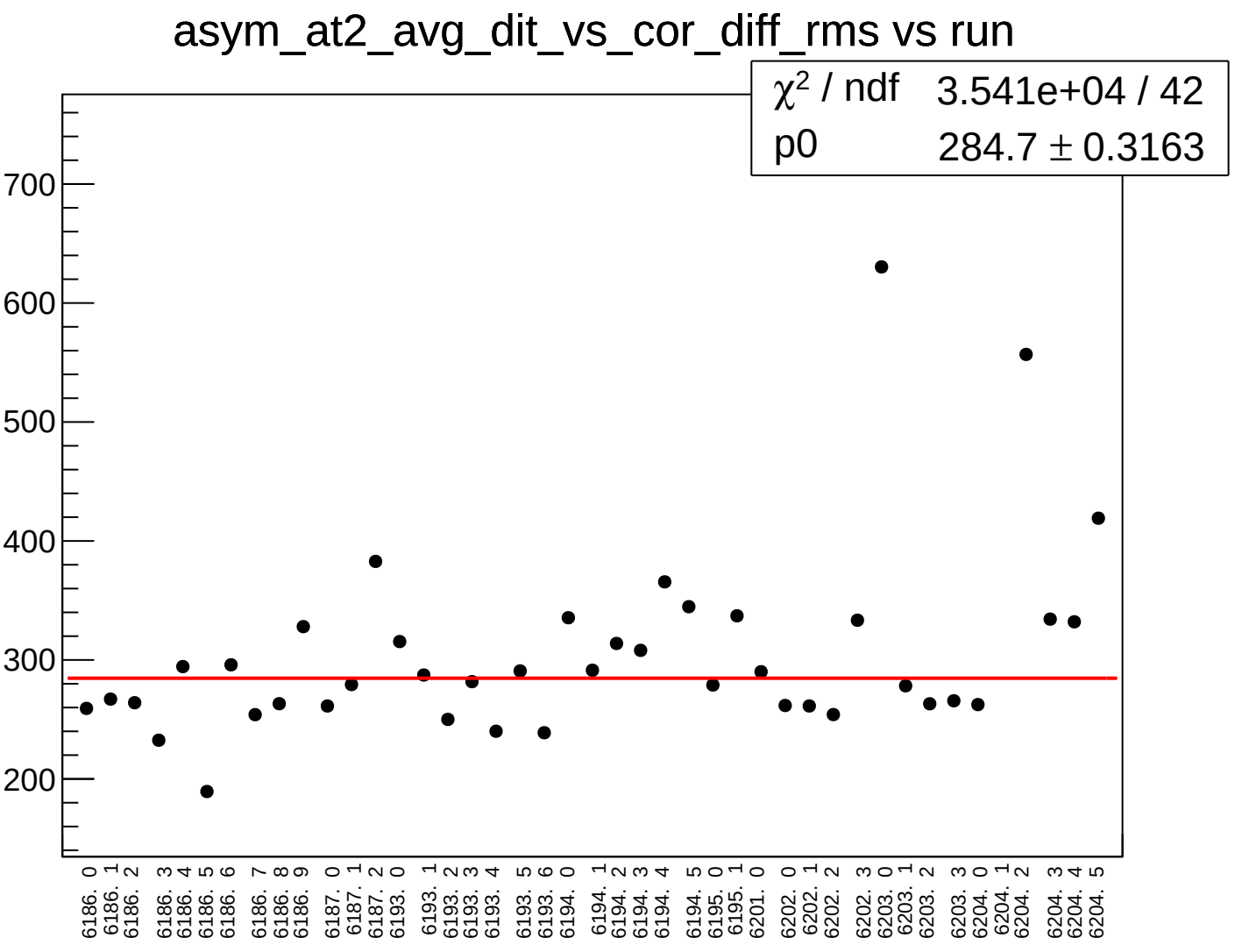

pull1D
Entries 43
Mean −0.009181
Std Dev 1.136

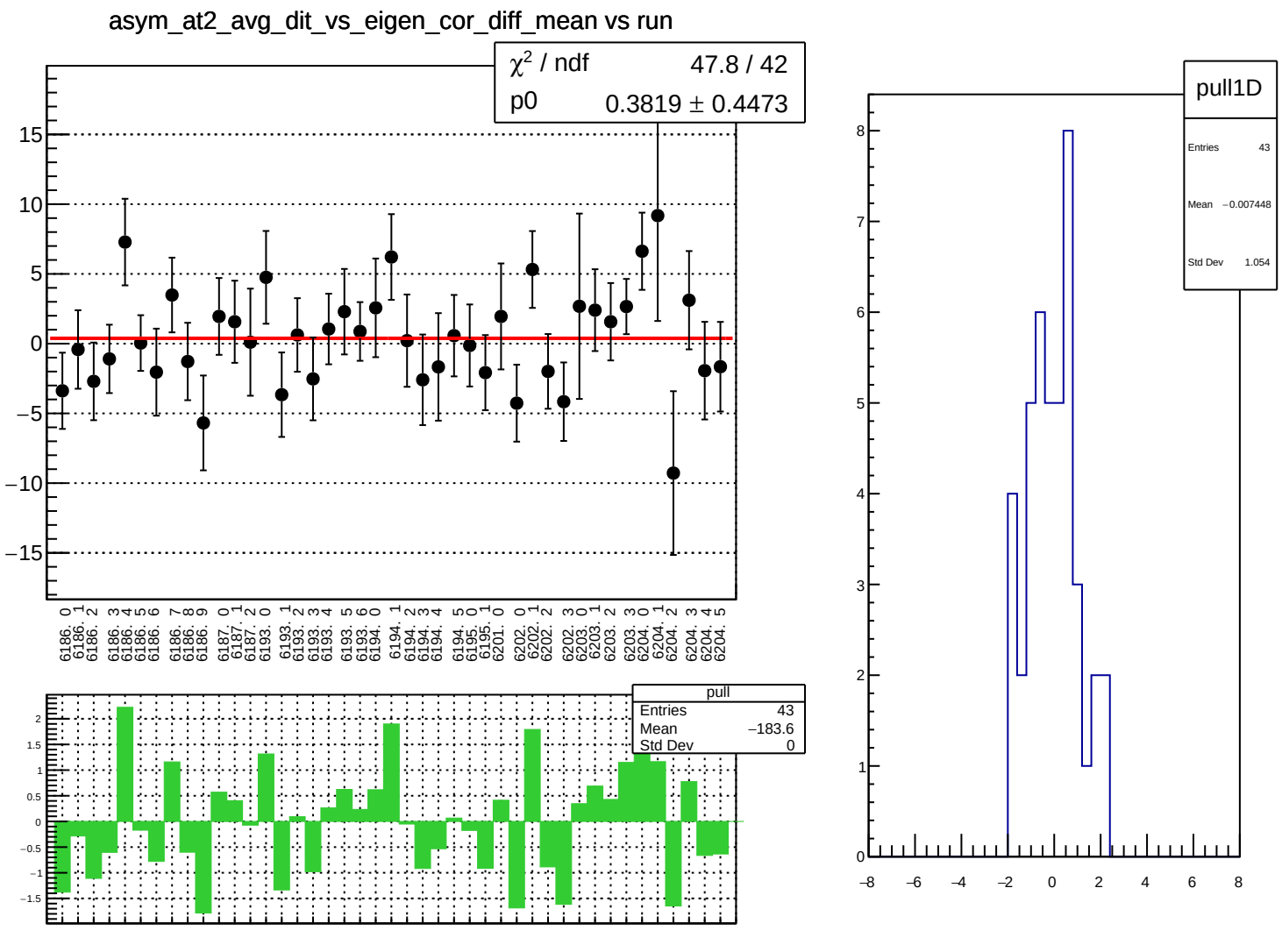

asym_at2_avg_rms vs run
χ^2 / ndf 3834 / 42
p0 8733 ± 9.521
10000
9500
9000
8500
8000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

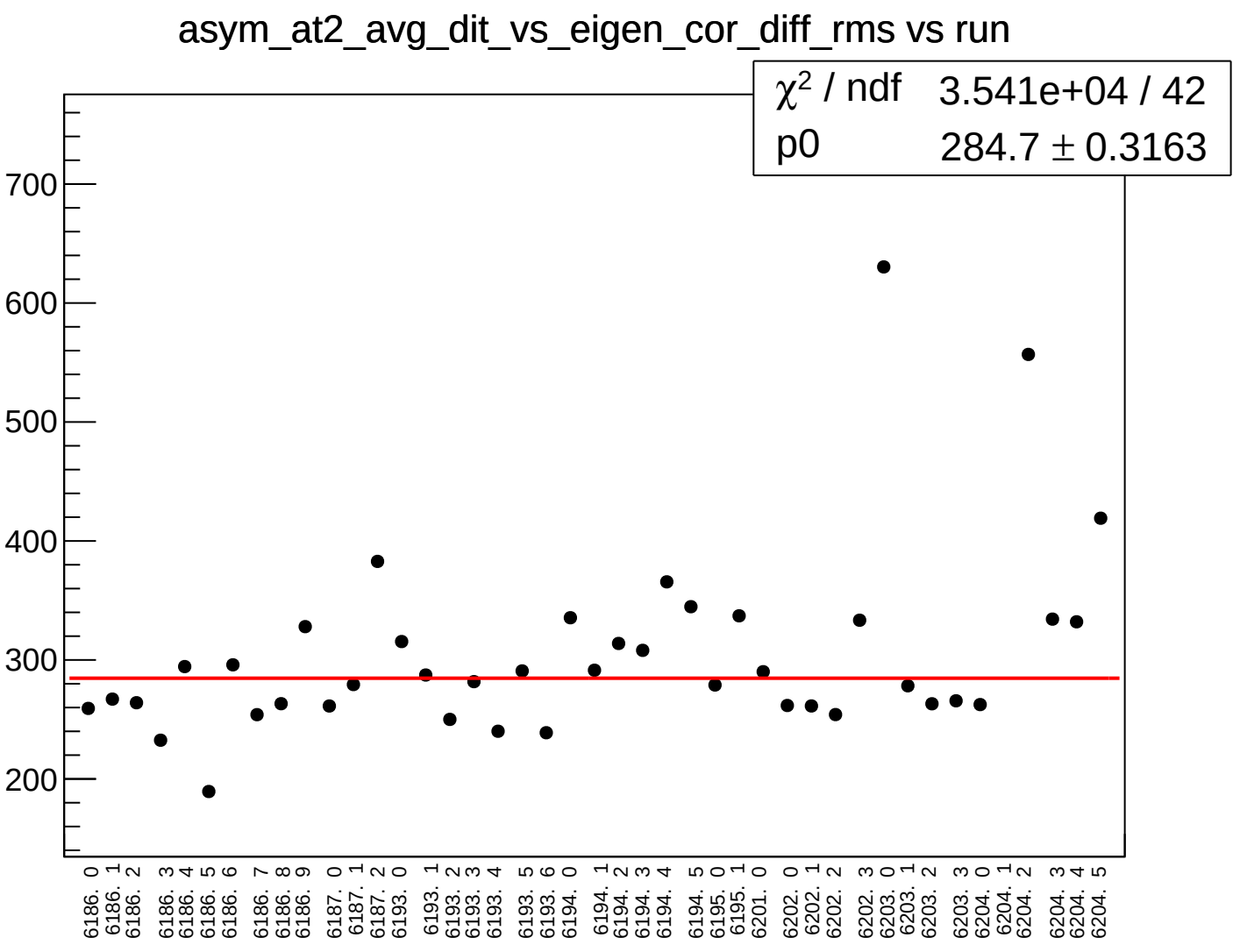

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 42.71 / 42
p0 3.035e−13 ± 1.651e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 18.8
Std Dev 16.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.1484
Std Dev 0.9856
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

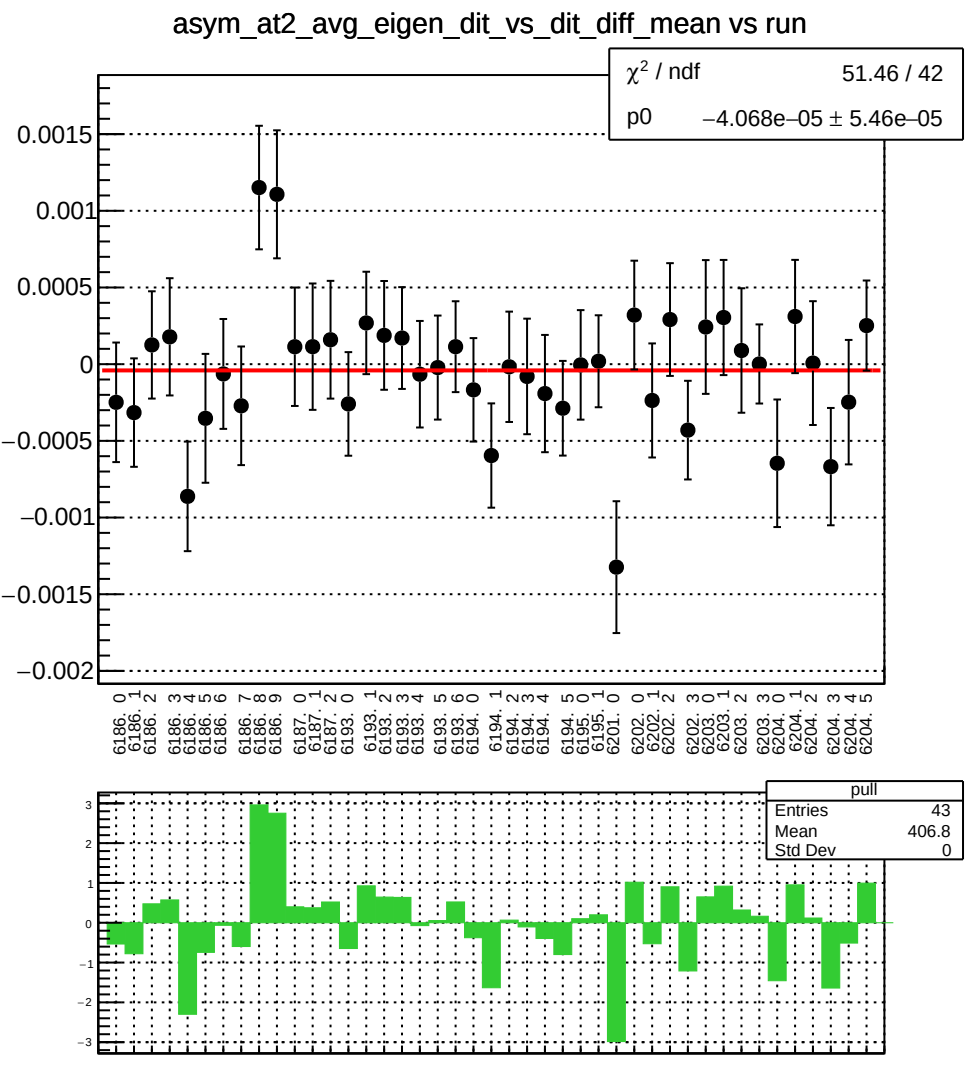

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.442e+05 / 42
p0 6.407e−10 ± 1.168e−12
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

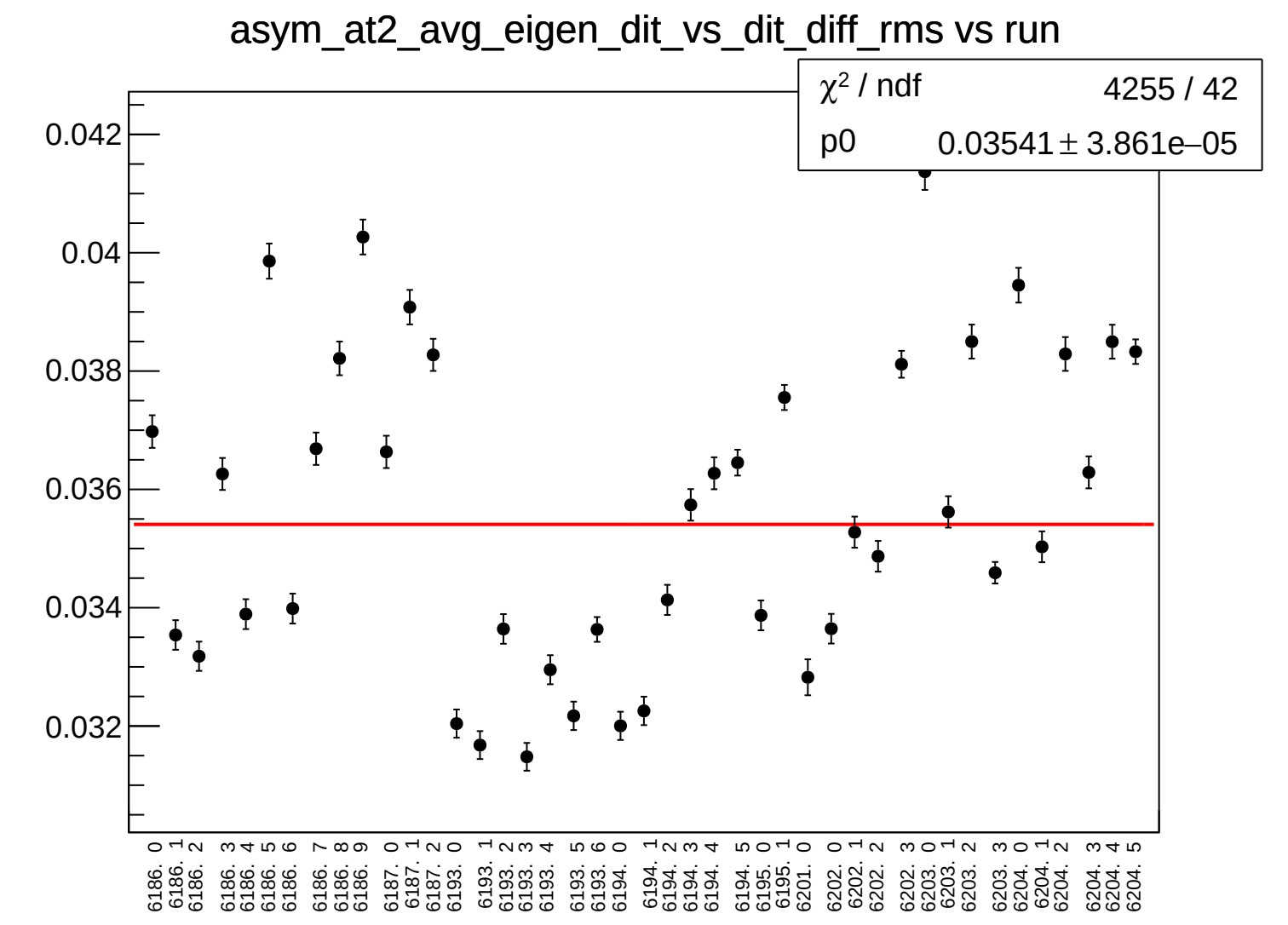

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 47.8 / 42
p0 0.3819 ± 0.4473
15
10
5
0
−5
−10
−15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −183.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.007448
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

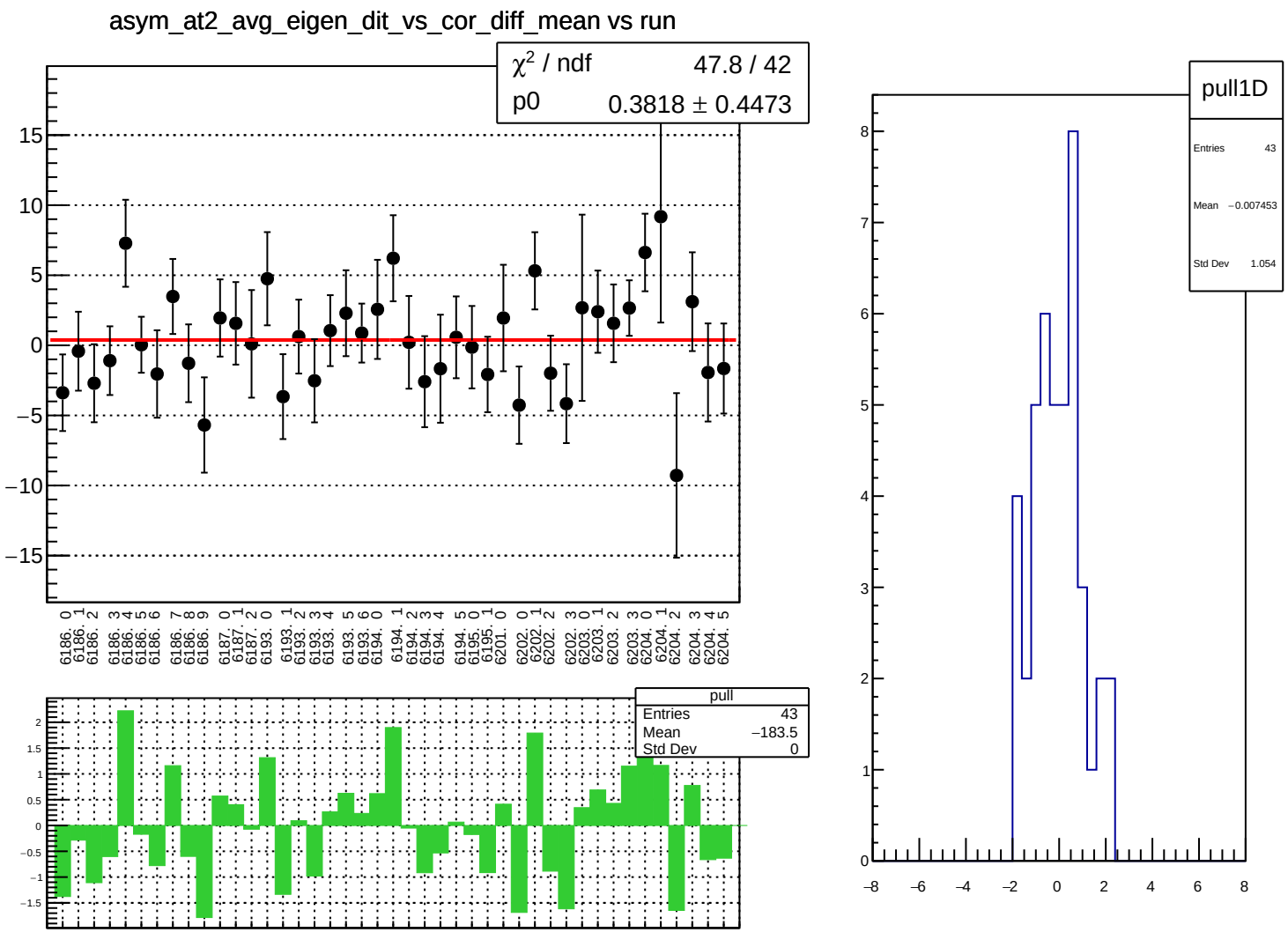

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.541e+04 / 42
p0 284.7 ± 0.3163
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

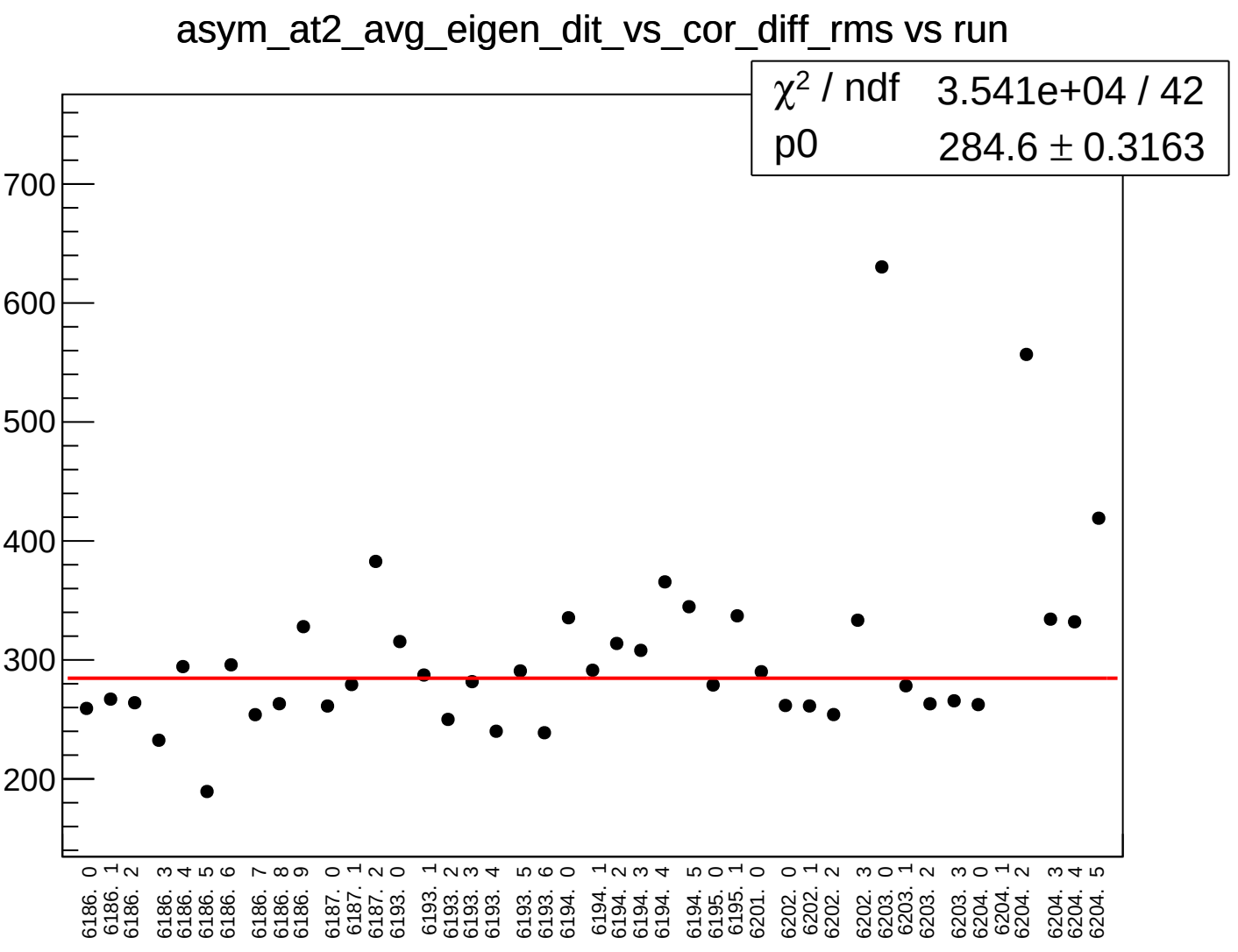

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.8 / 42
p0 0.3819 ± 0.4473
15
10
5
0
−5
−10
−15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −183.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.007448
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.541e+04 / 42
p0 284.7 ± 0.3163
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 51.46 / 42
p0 −4.068e−05 ± 5.46e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 406.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.002953
Std Dev 1.094
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4255 / 42
p0 0.03541 ± 3.861e–05
0.042
0.04
0.038
0.036
0.034
0.032
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.8 / 42
p0 0.3818 ± 0.4473
15
10
5
0
−5
−10
−15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −183.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.007453
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.541e+04 / 42
p0 284.6 ± 0.3163
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
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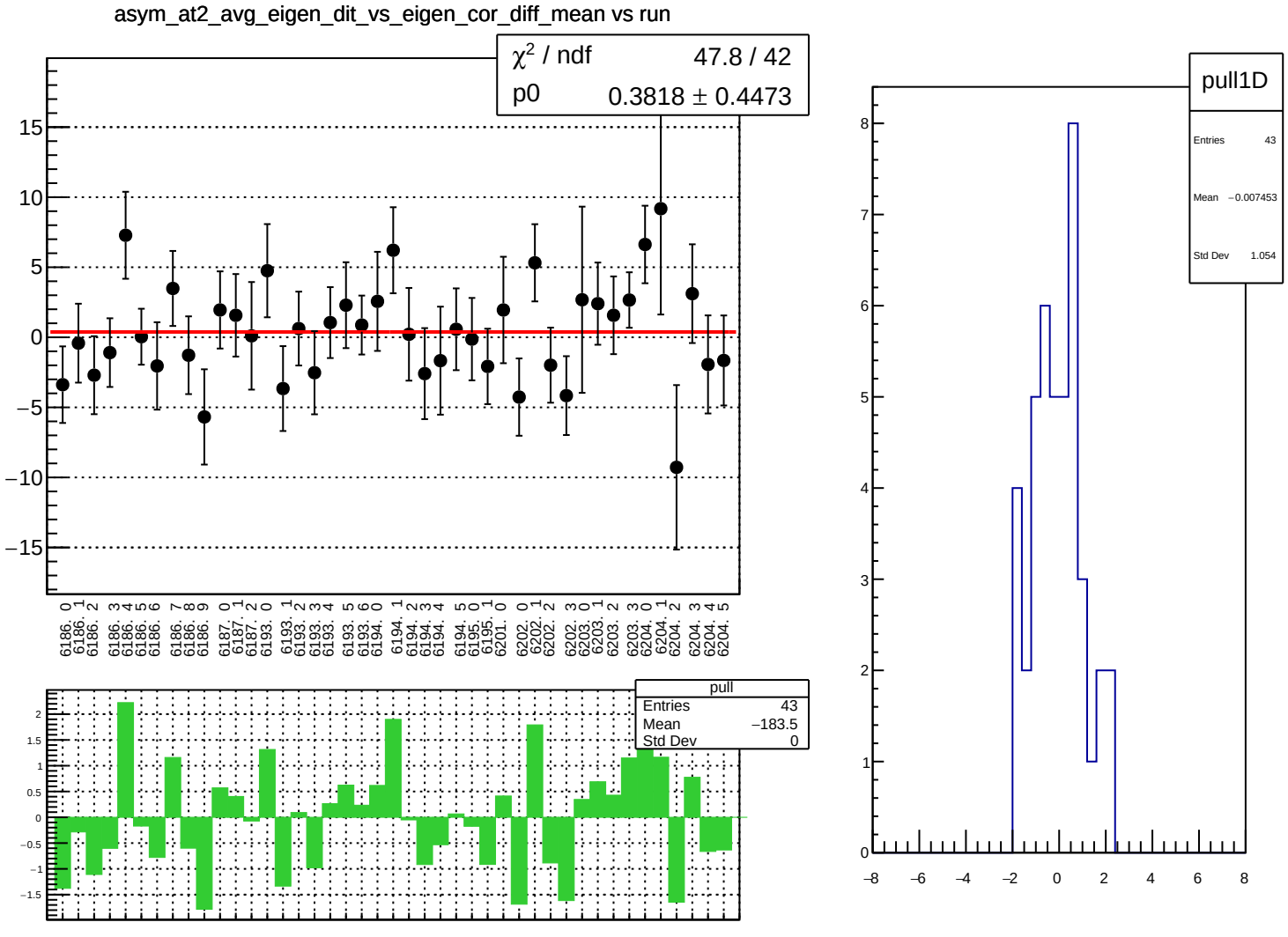
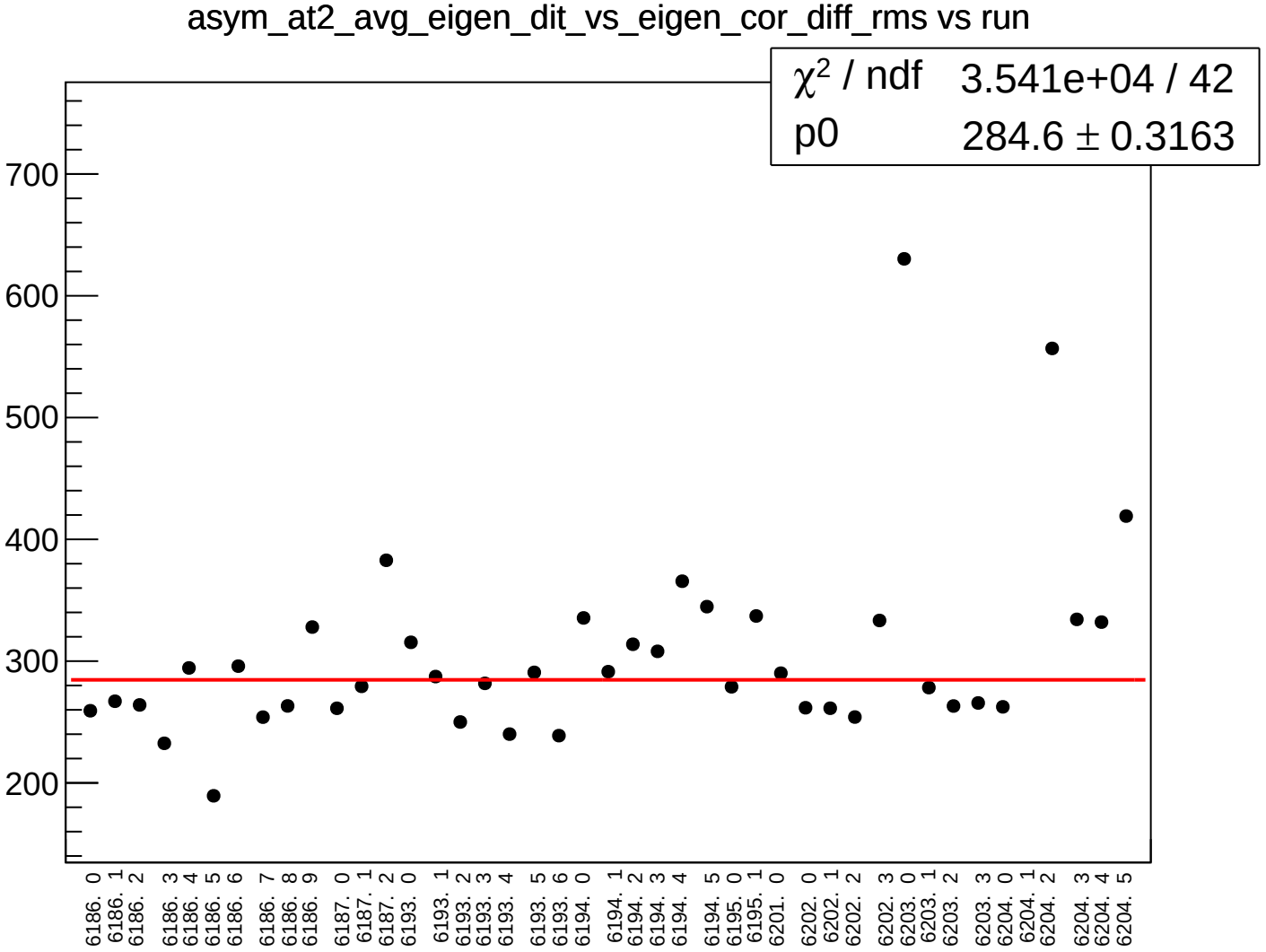
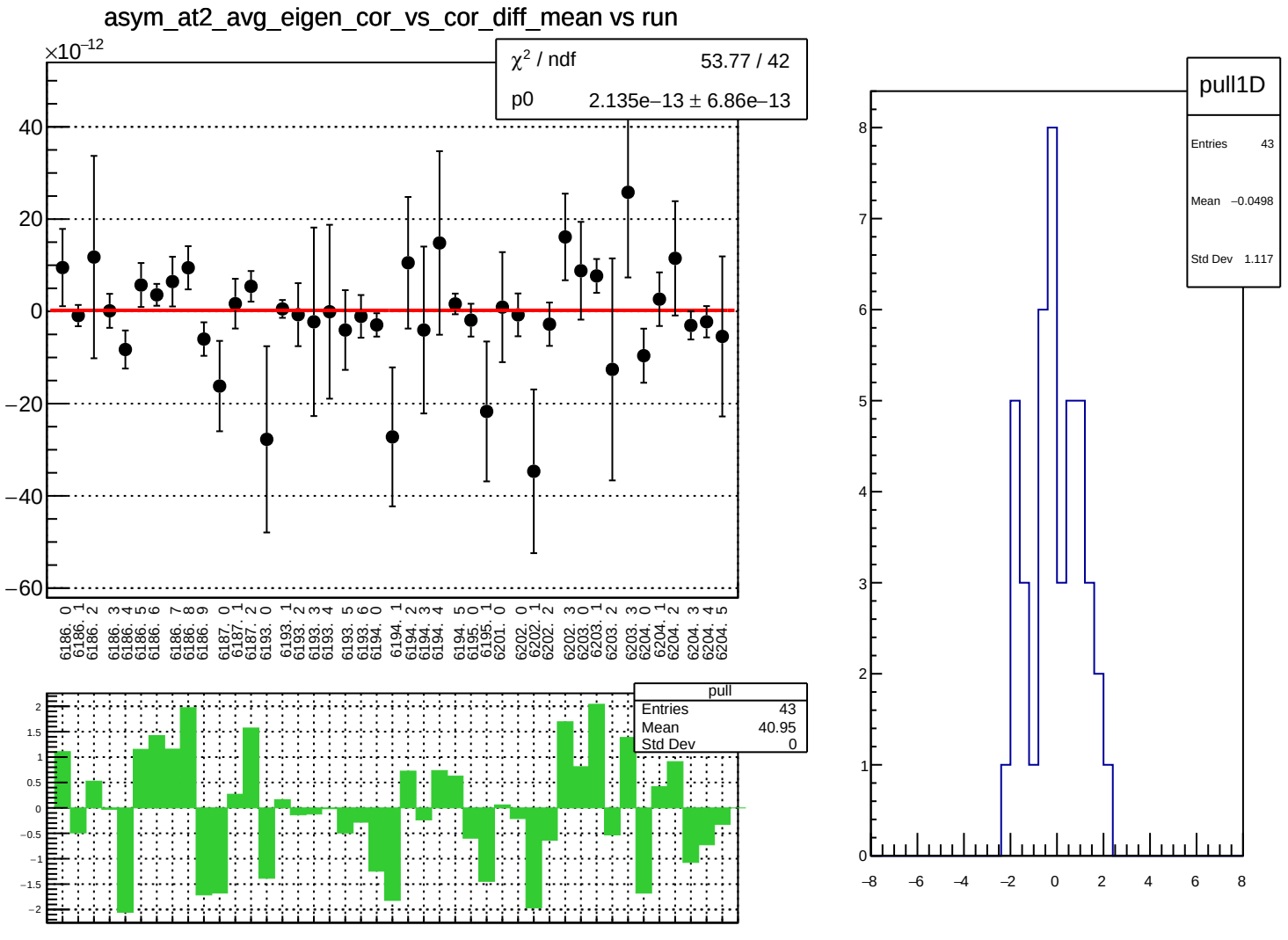
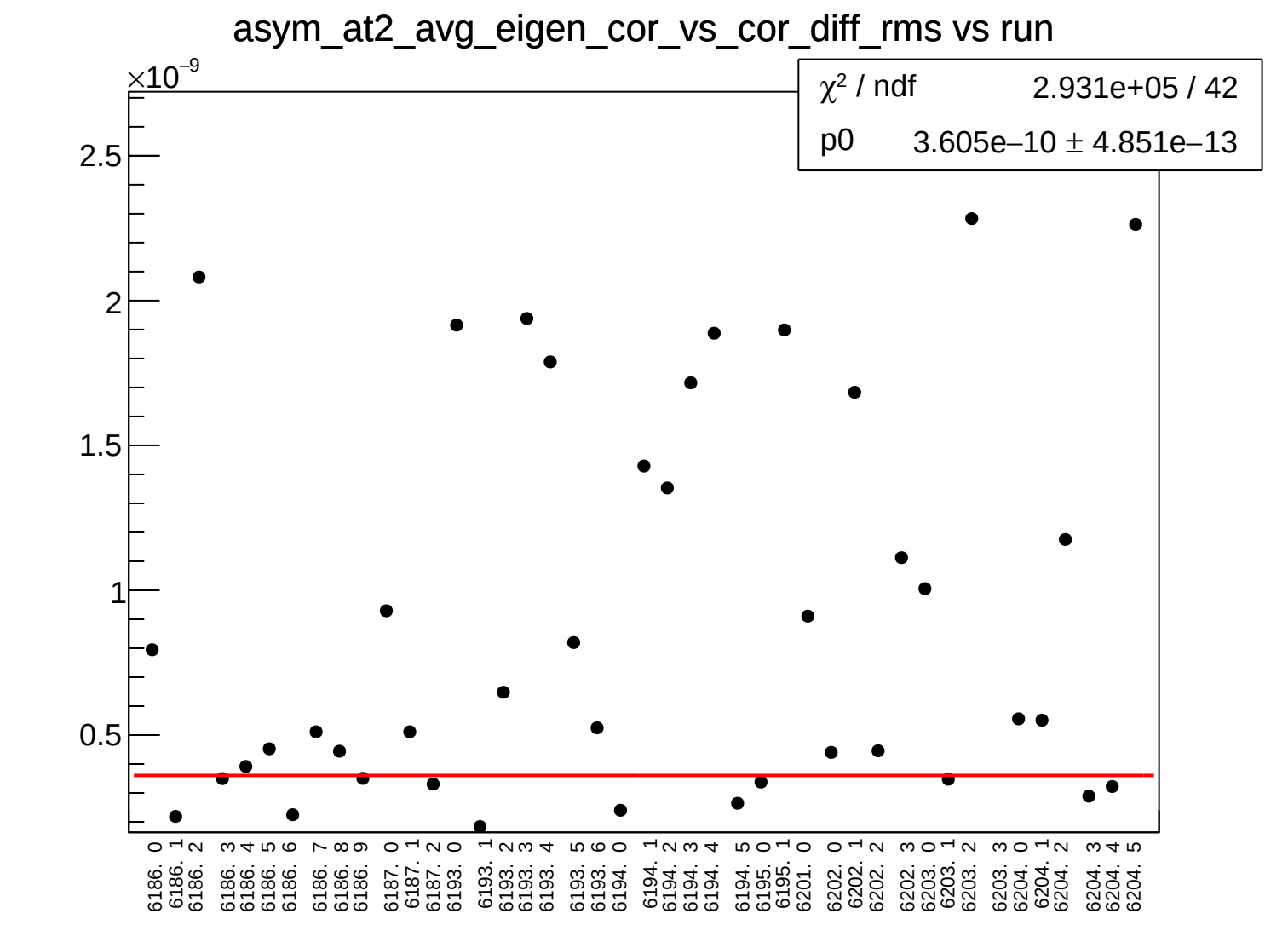
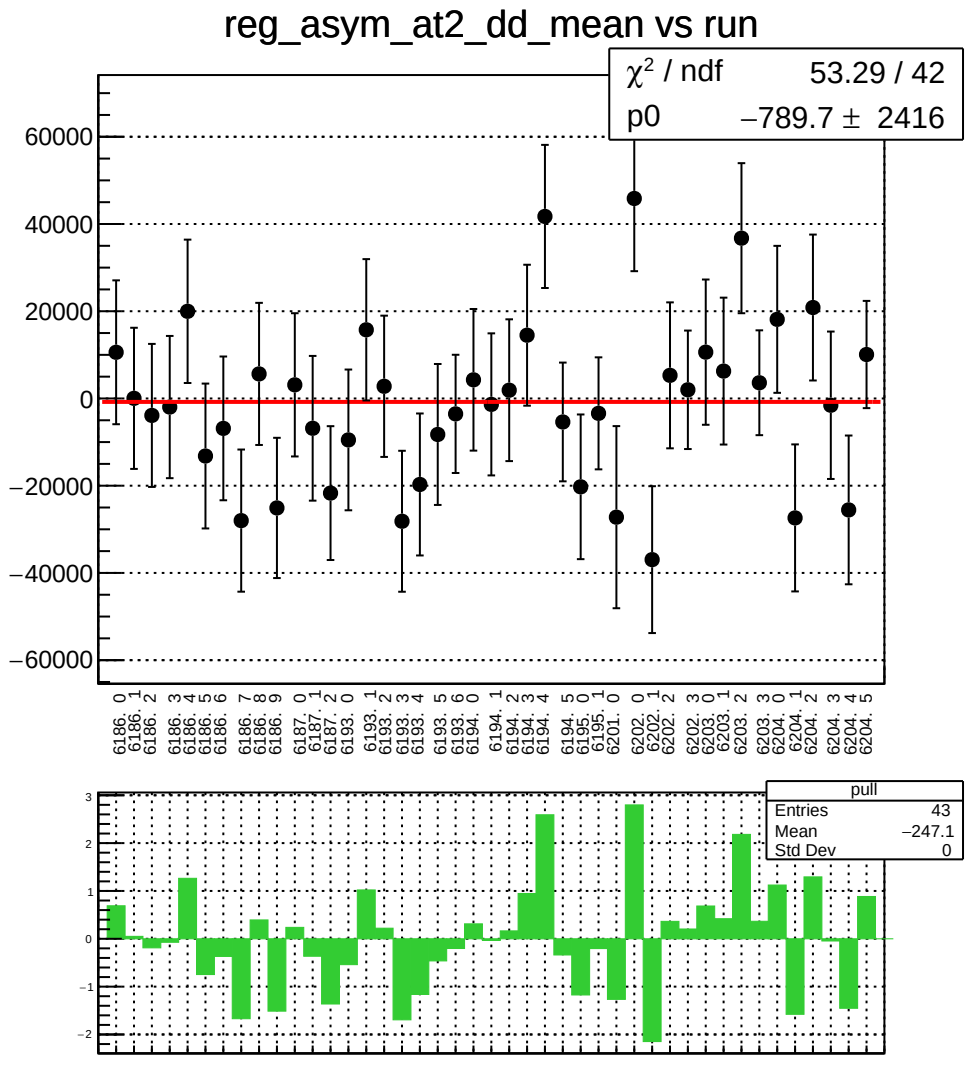
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

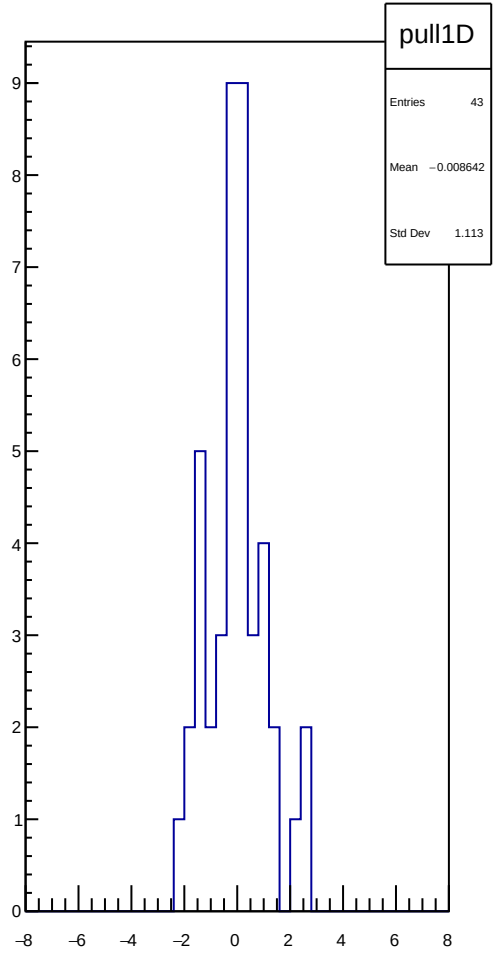

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.8 / 42
p0 0.3818 ± 0.4473
15
10
5
0
−5
−10
−15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −183.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.007453
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

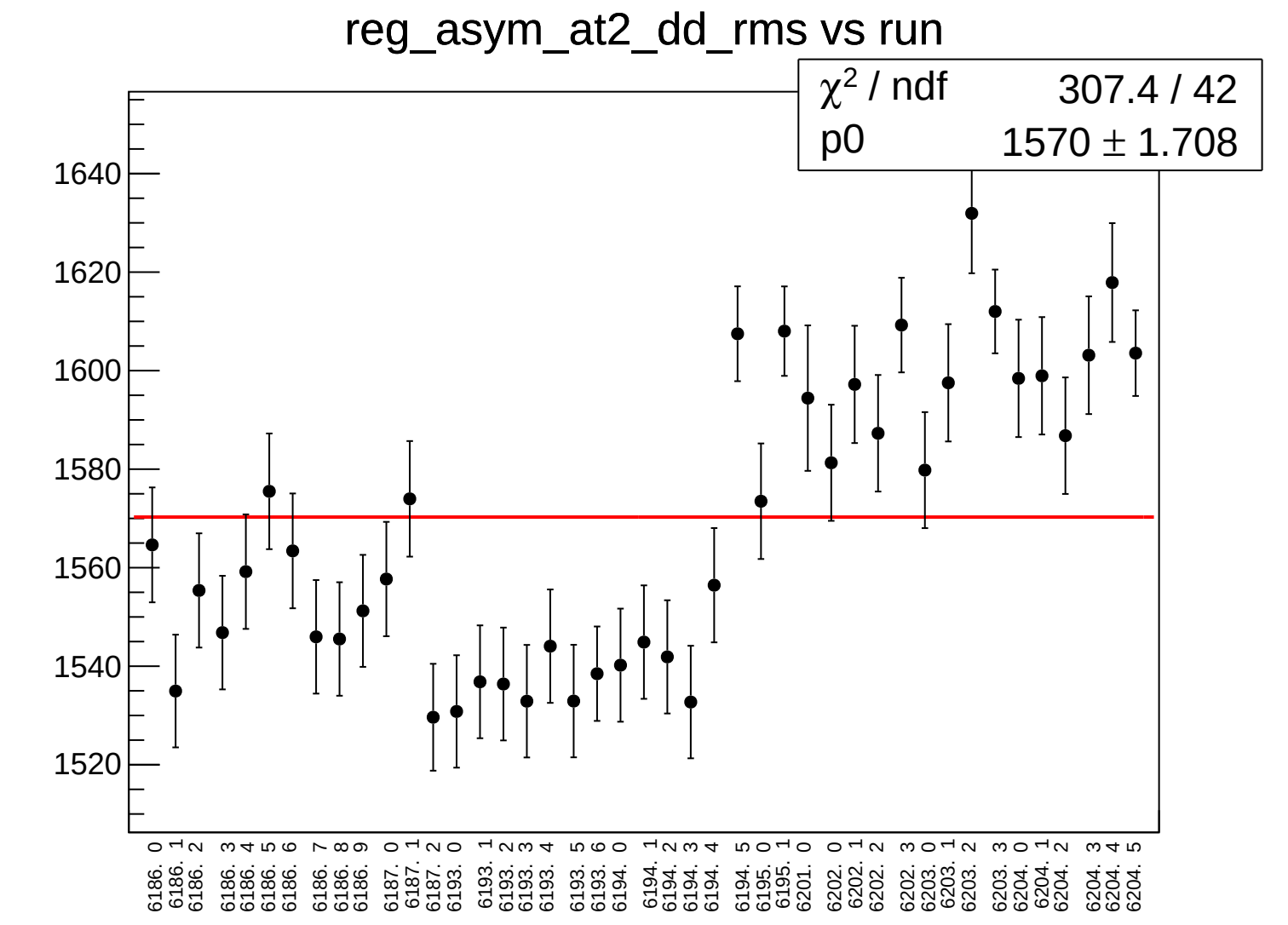

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.541e+04 / 42
p0 284.6 ± 0.3163
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

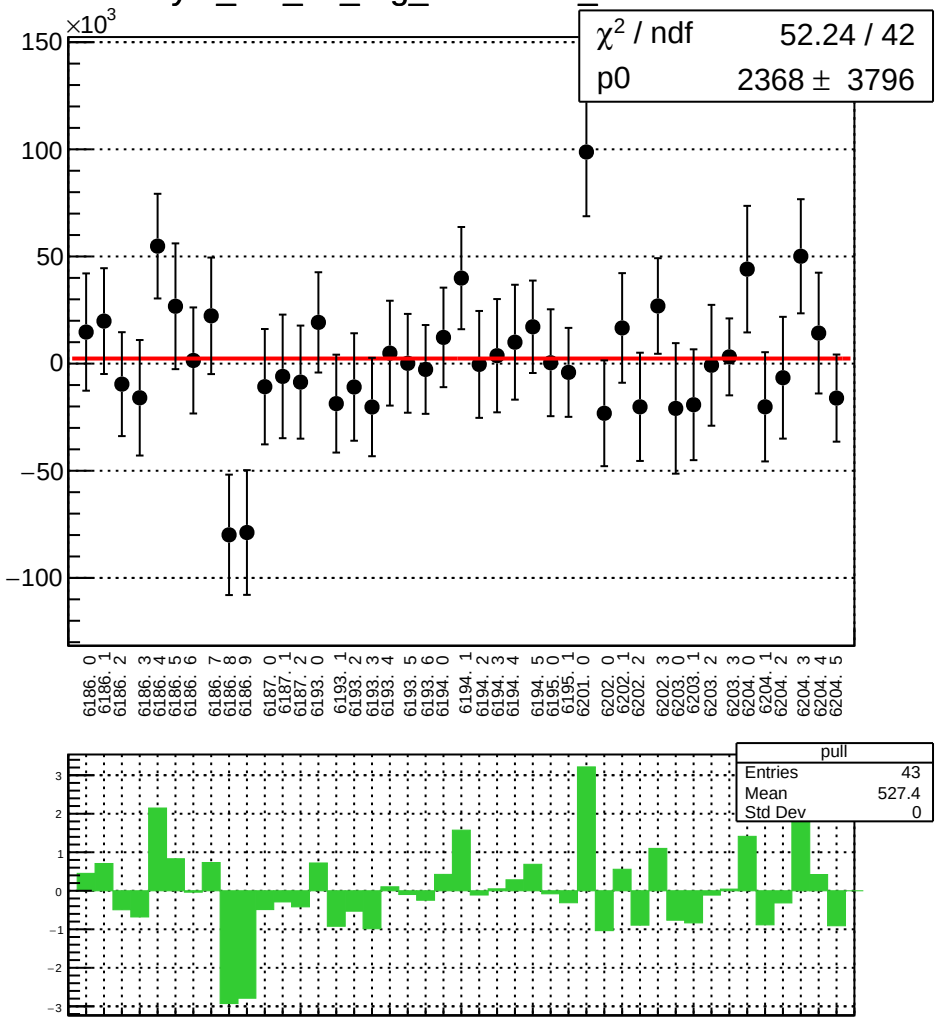

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 53.77 / 42
p0 2.135e−13 ± 6.86e−13
40
20
0
−20
−40
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 40.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0498
Std Dev 1.117
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

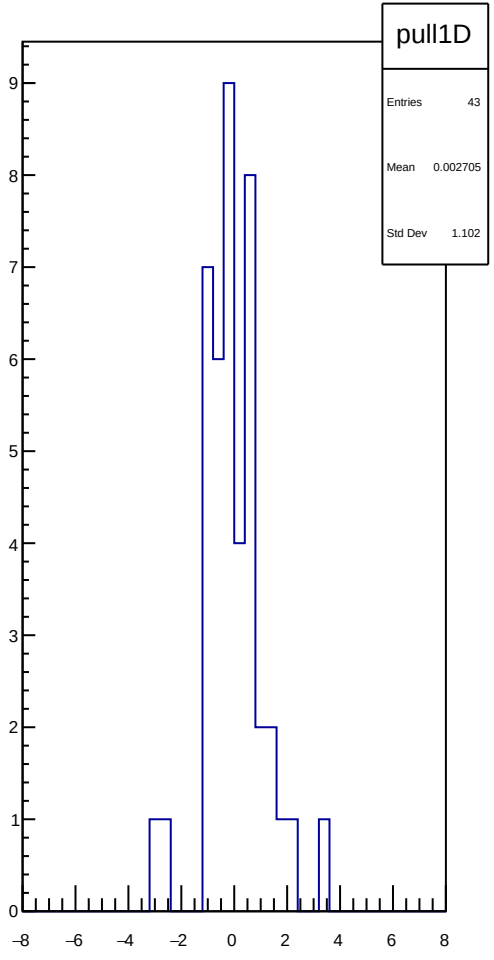

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.931e+05 / 42
p0 3.605e−10 ± 4.851e−13
2.5
2
1.5
1
0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

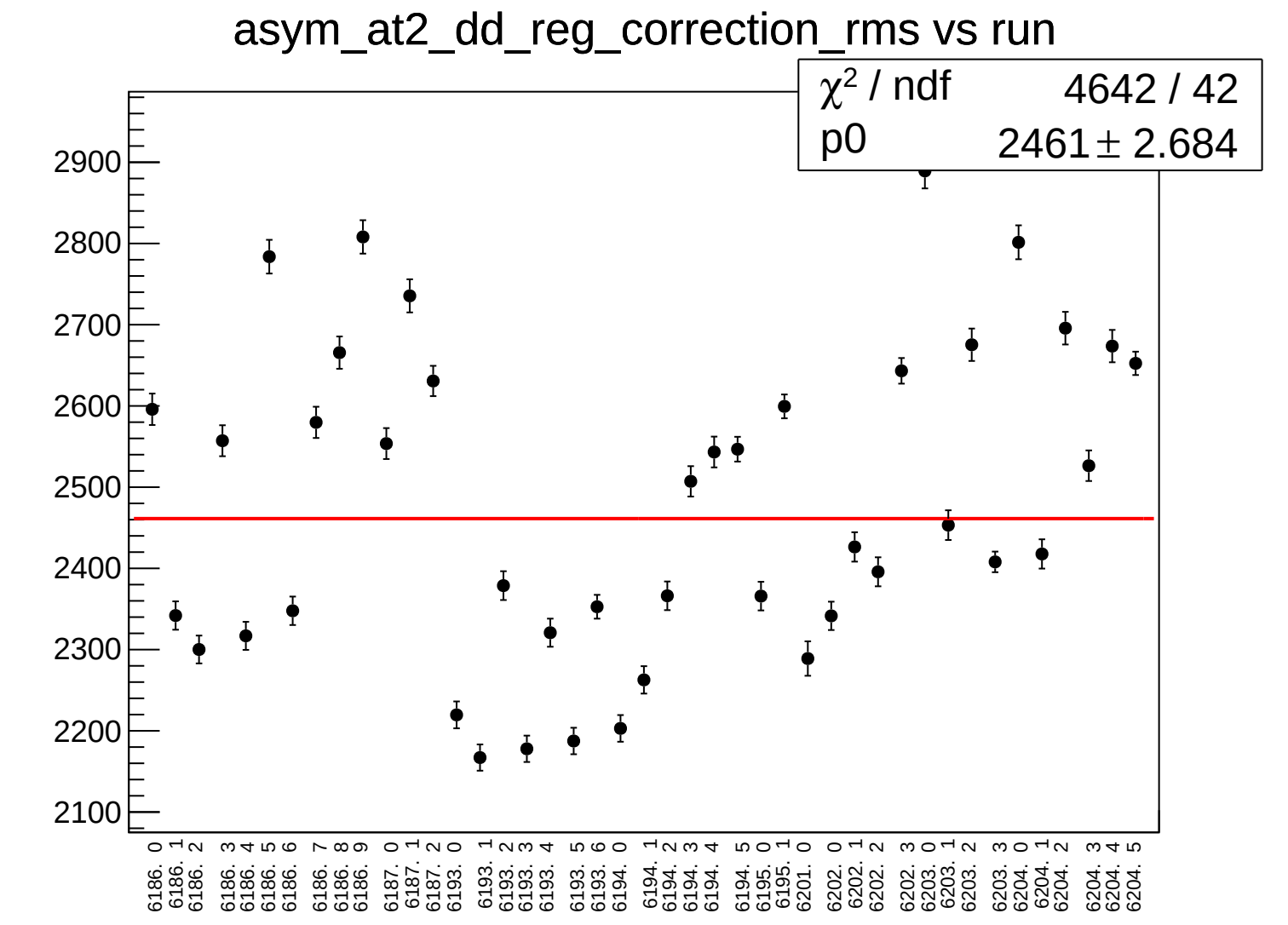

reg_asym_at2_dd_mean vs run
χ² / ndf 53.29 / 42
p0 −789.7 ± 2416
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −247.1
Std Dev 0
3
2
1
0
−1
−2

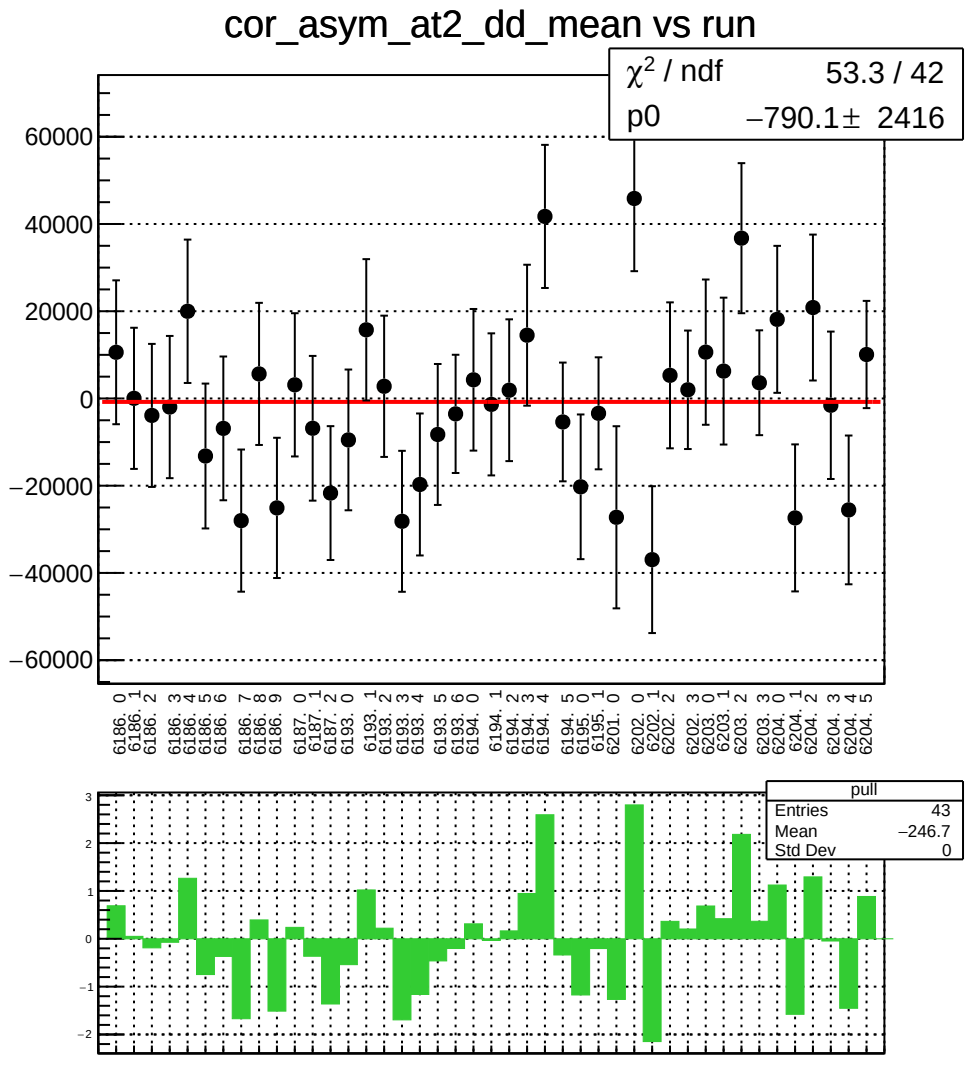

pull1D
Entries 43
Mean −0.008642
Std Dev 1.113
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

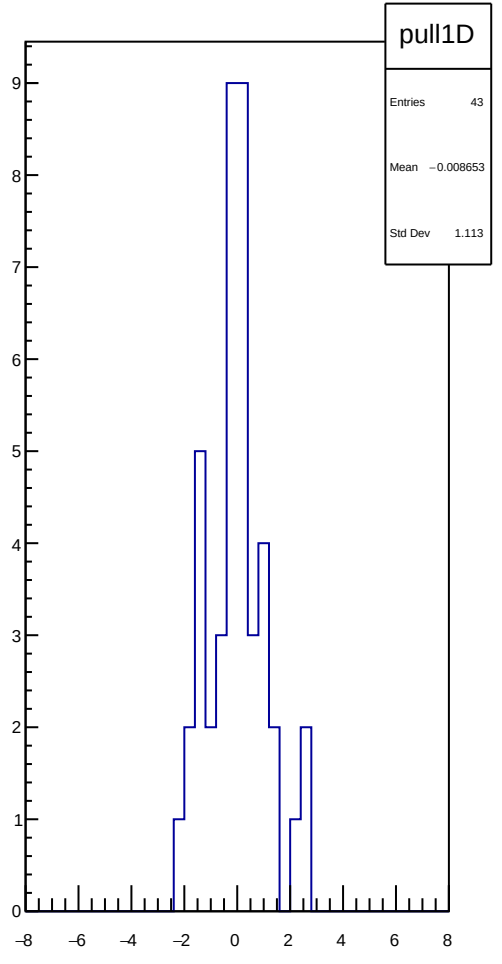

reg_asym_at2_dd_rms vs run
χ² / ndf 307.4 / 42
p0 1570 ± 1.708
1640
1620
1600
1580
1560
1540
1520
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

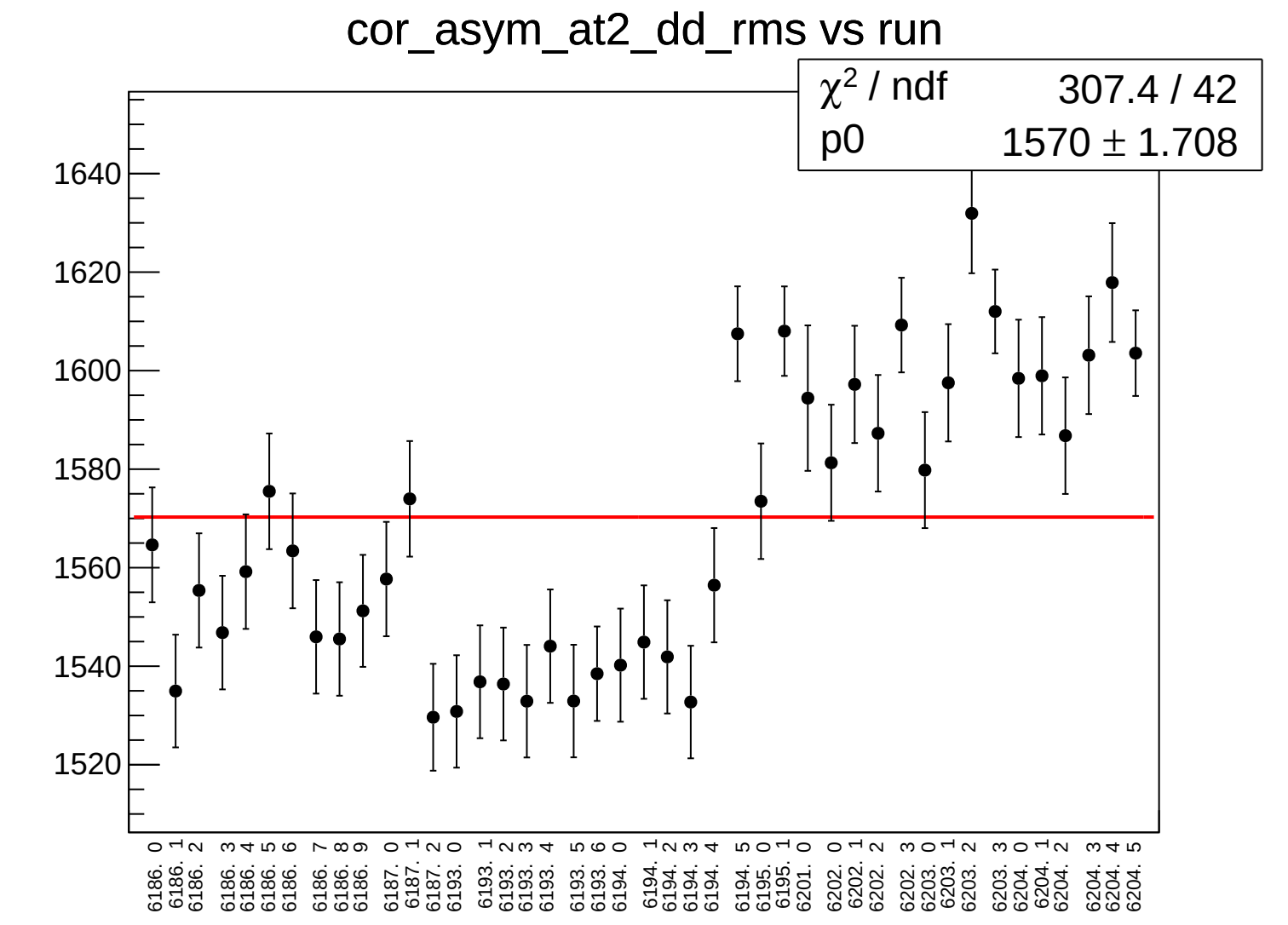

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 52.24 / 42
p0 2368 ± 3796
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 527.4
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.002705
Std Dev 1.102
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_reg_correction_rms vs run
χ² / ndf 4642 / 42
p0 2461 ± 2.684
2900
2800
2700
2600
2500
2400
2300
2200
2100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_at2_dd_mean vs run
χ² / ndf 53.3 / 42
p0 −790.1± 2416
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −246.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.008653
Std Dev 1.113
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
χ² / ndf 307.4 / 42
p0 1570 ± 1.708
1640
1620
1600
1580
1560
1540
1520
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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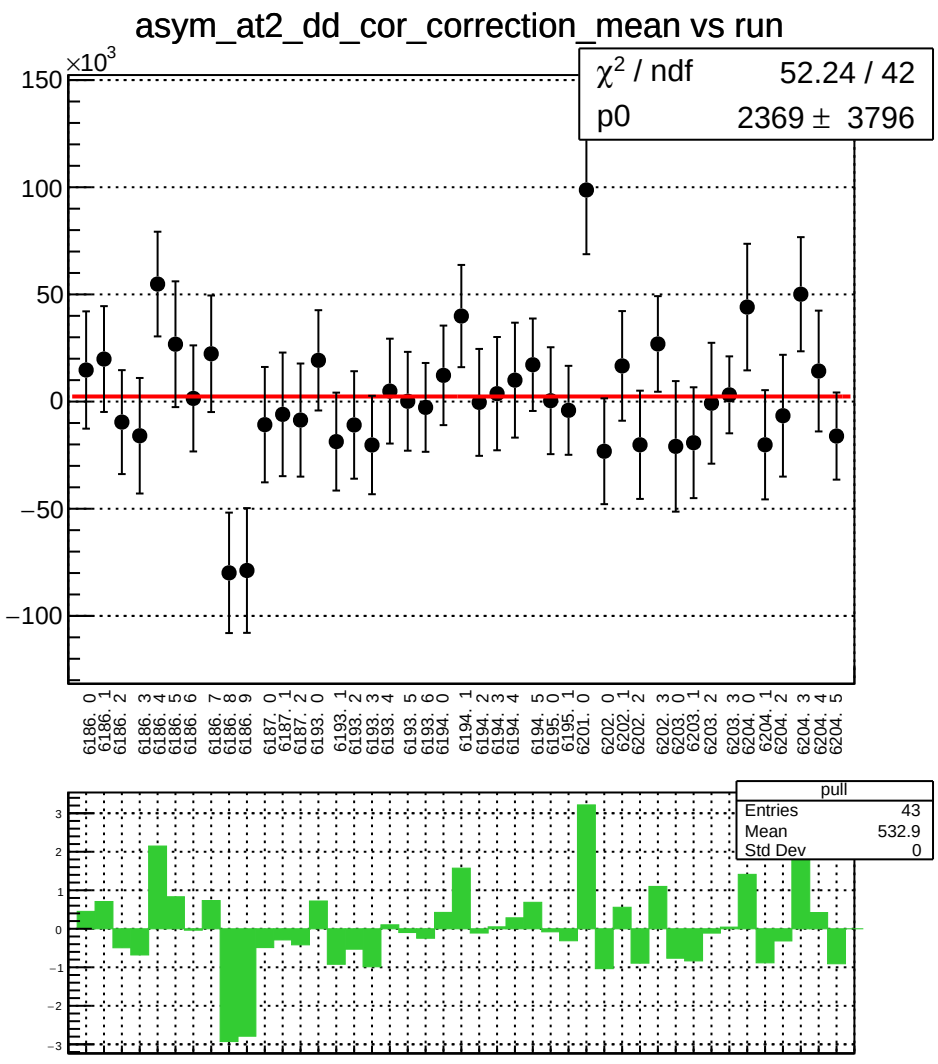
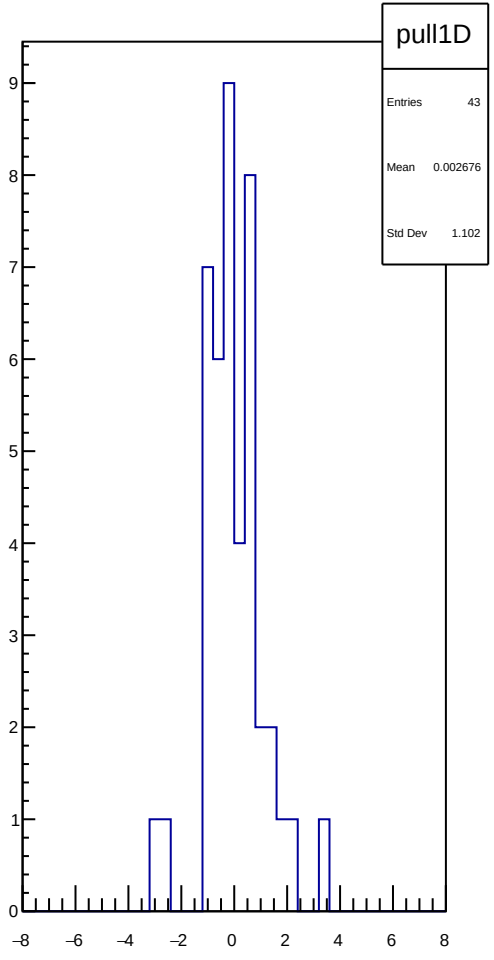
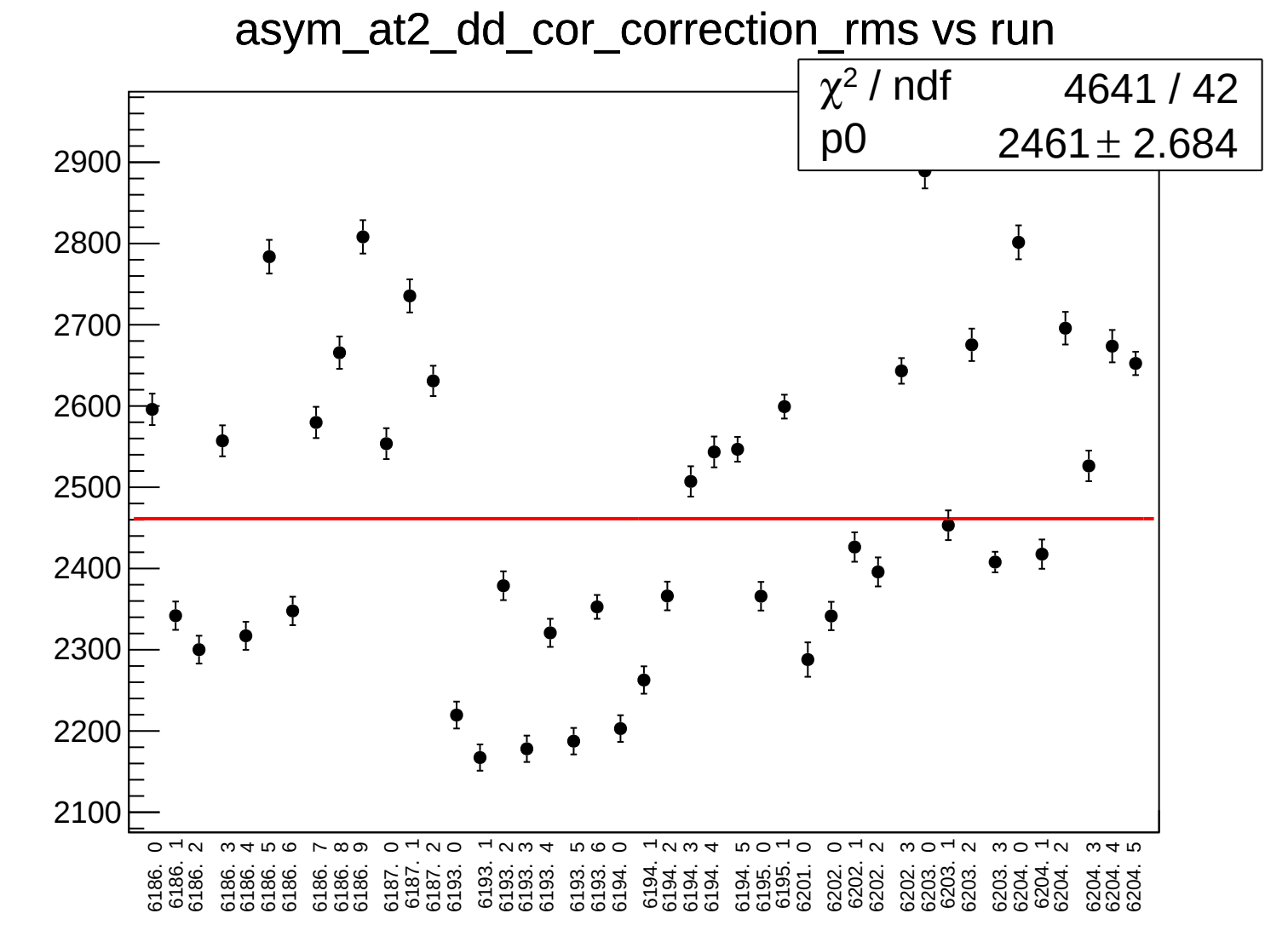
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 52.24 / 42
p0 2369 ± 3796
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 532.9
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.002676
Std Dev 1.102
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_cor_correction_rms vs run
χ² / ndf 4641 / 42
p0 2461 ± 2.684
2900
2800
2700
2600
2500
2400
2300
2200
2100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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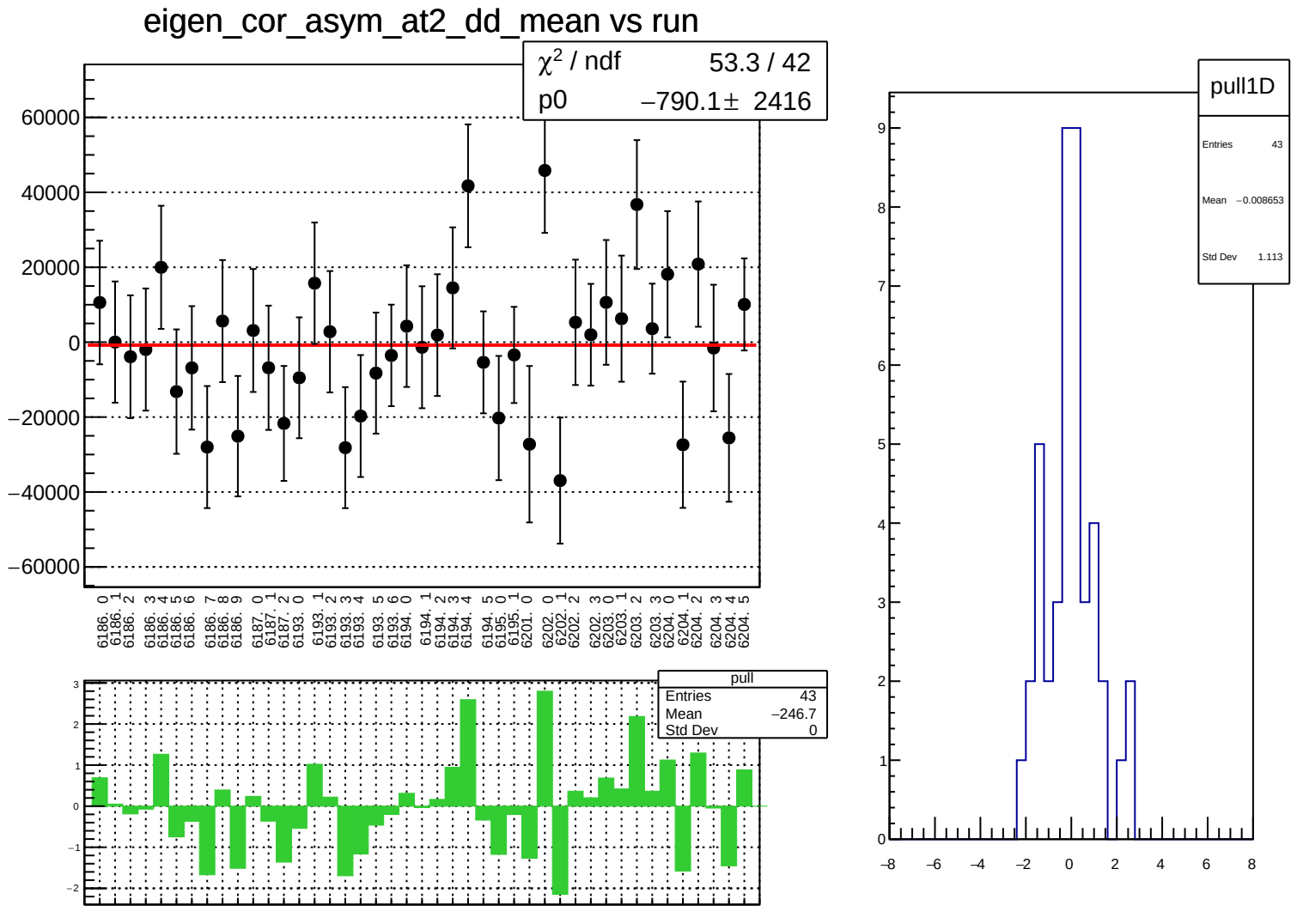
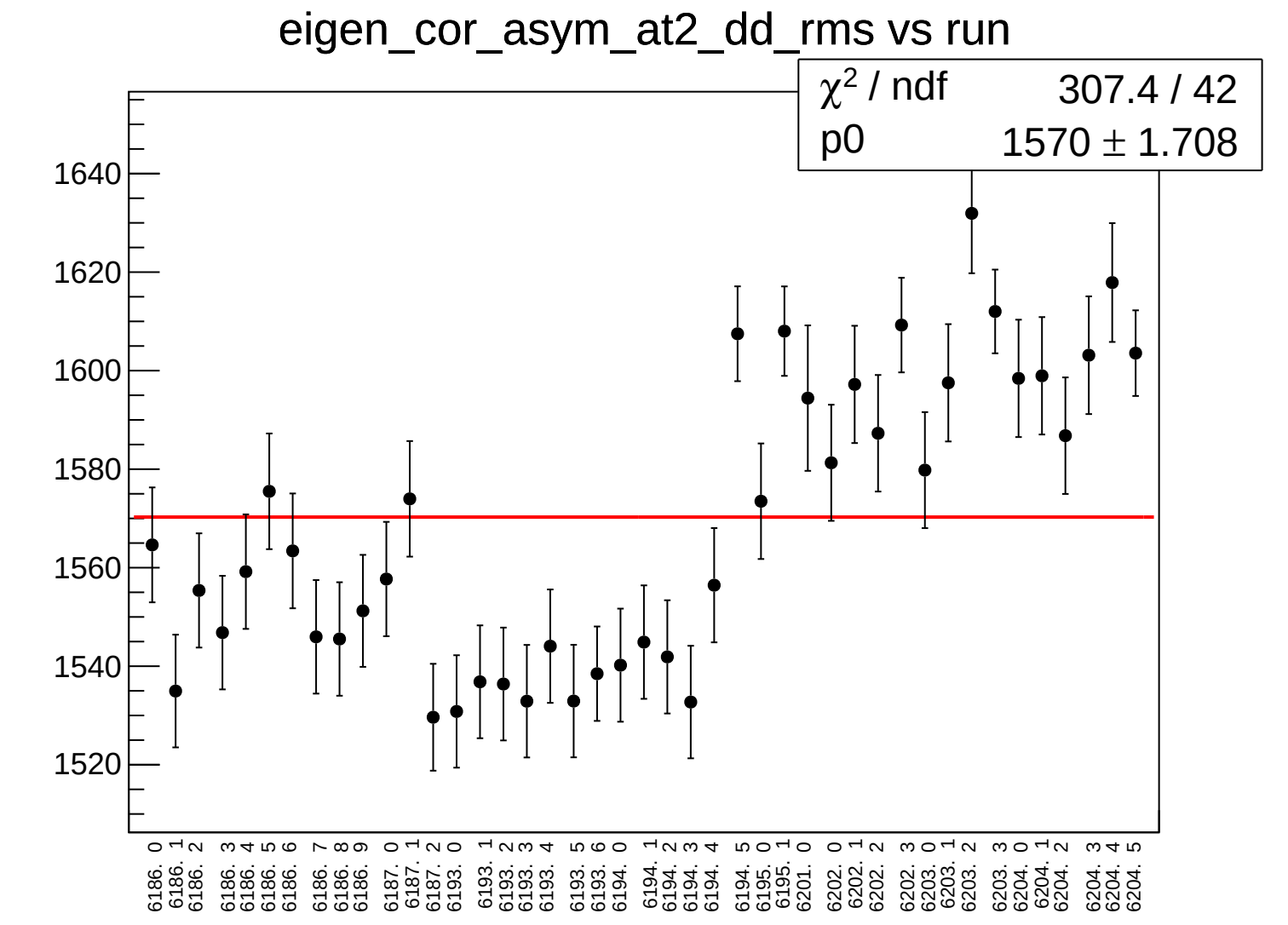
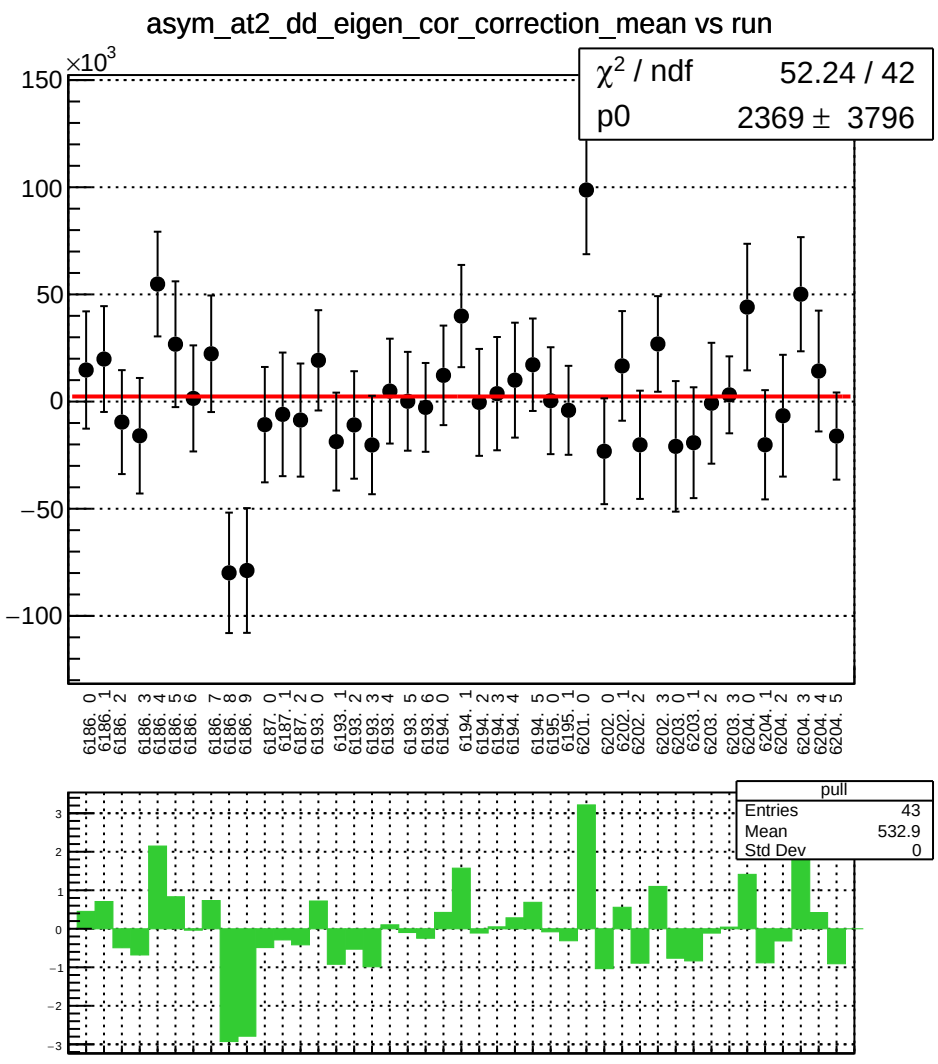
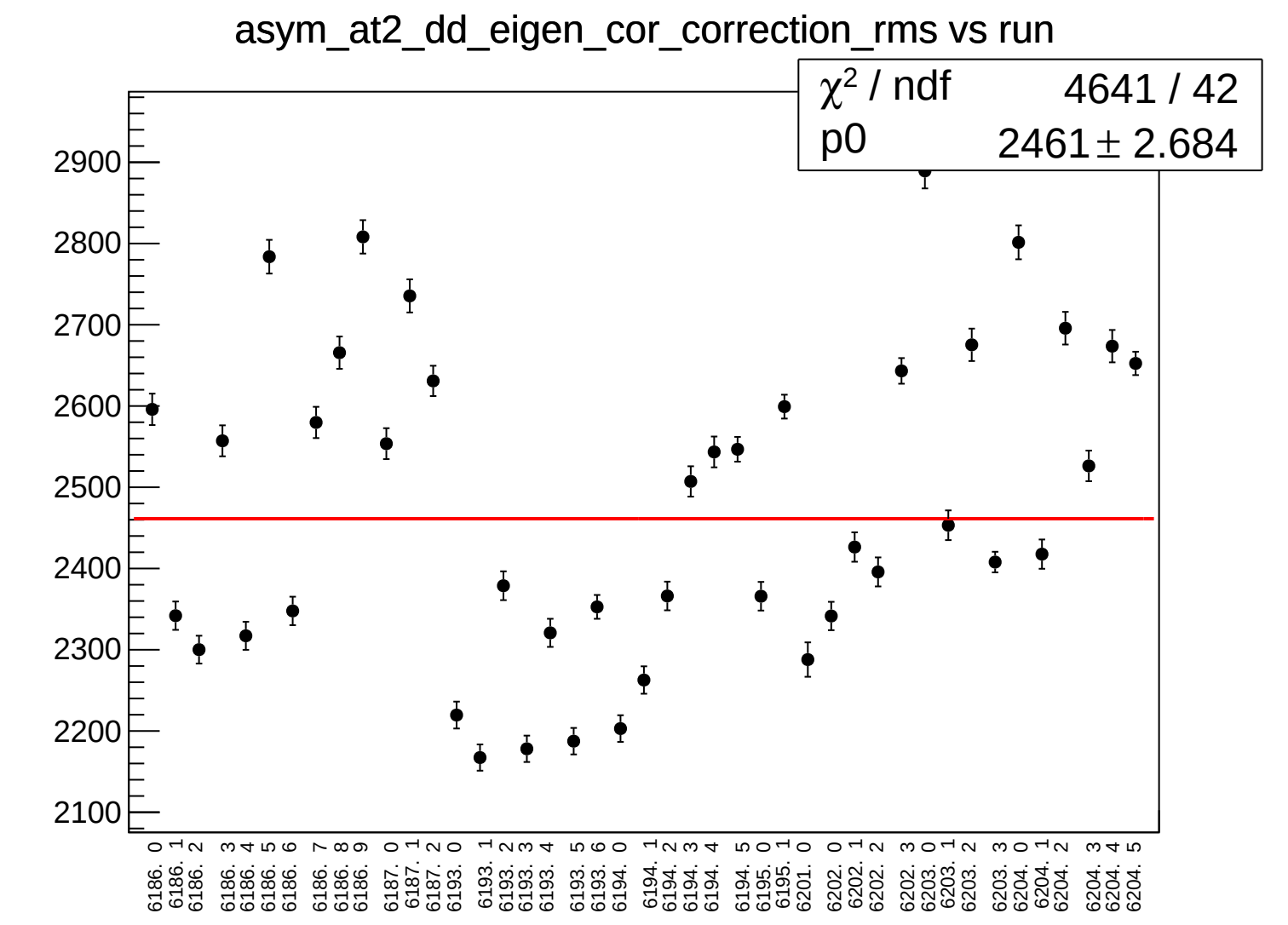
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 53.3 / 42
p0 −790.1± 2416
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −246.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.008653
Std Dev 1.113
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
χ² / ndf 307.4 / 42
p0 1570 ± 1.708
1640
1620
1600
1580
1560
1540
1520
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 52.24 / 42
p0 2369 ± 3796
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 532.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.002676
Std Dev 1.102
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4641 / 42
p0 2461 ± 2.684
2900
2800
2700
2600
2500
2400
2300
2200
2100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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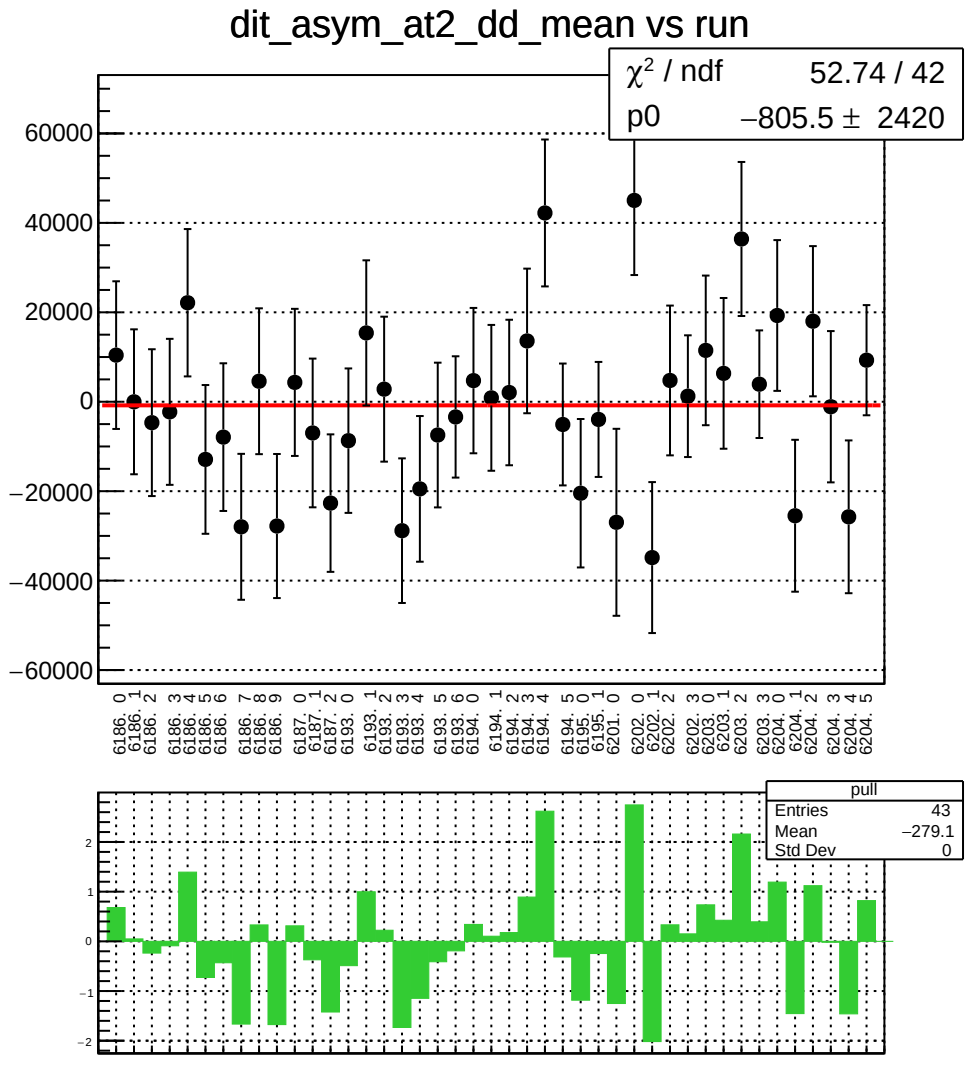
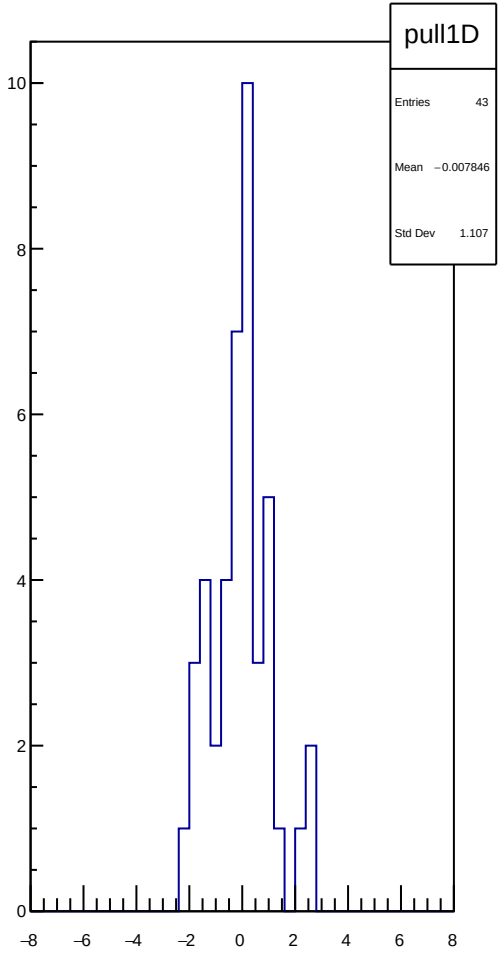
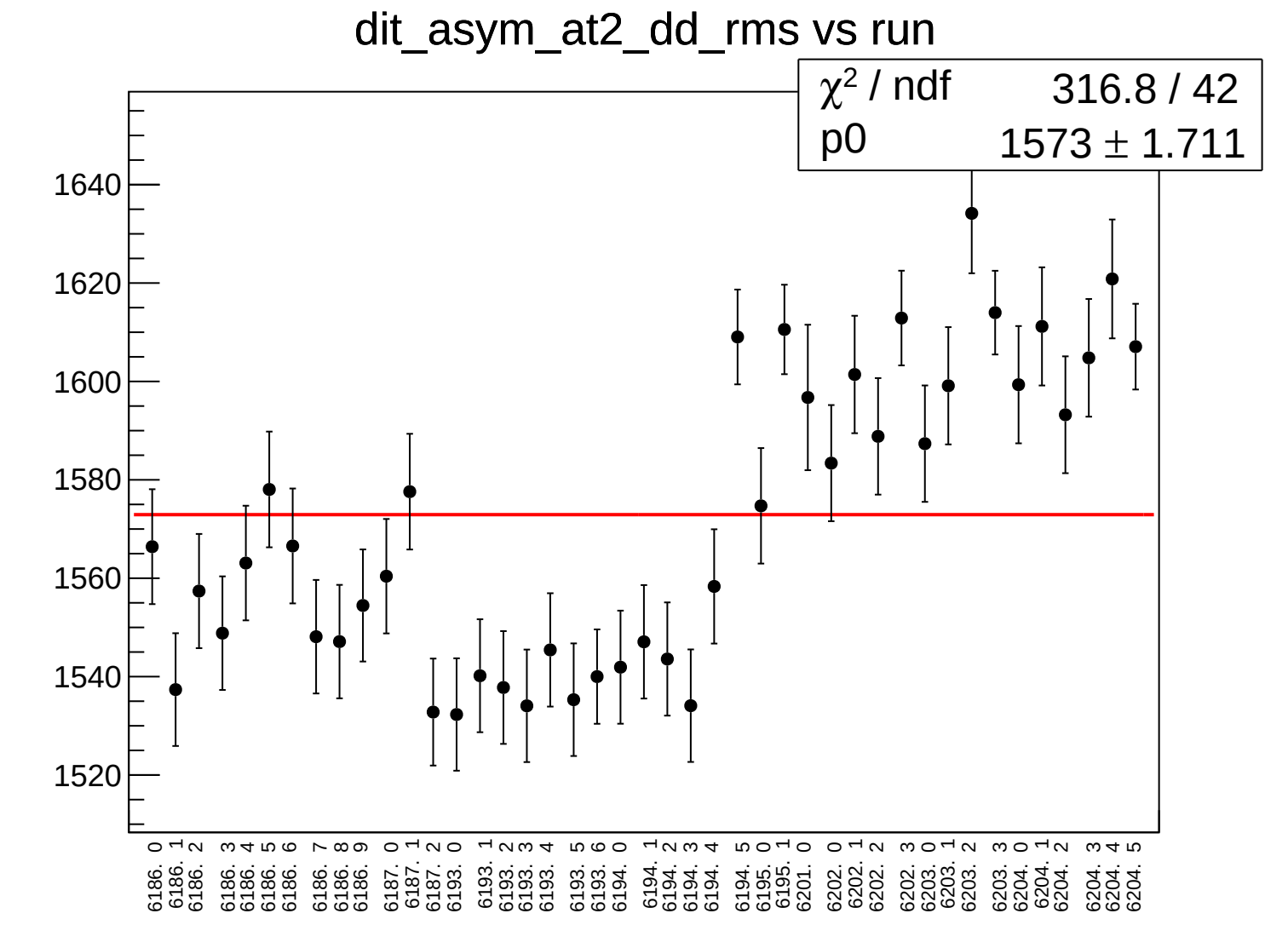
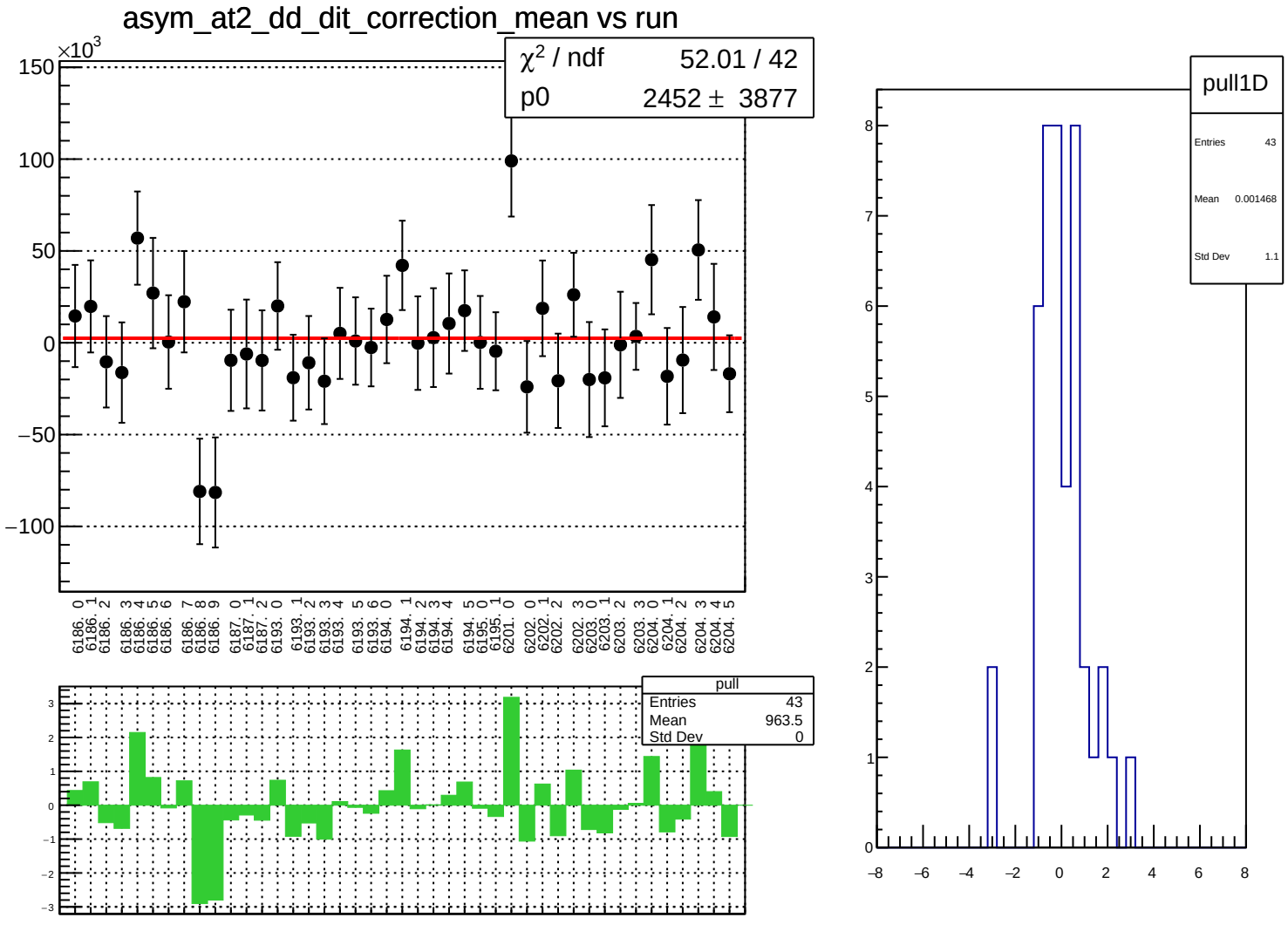
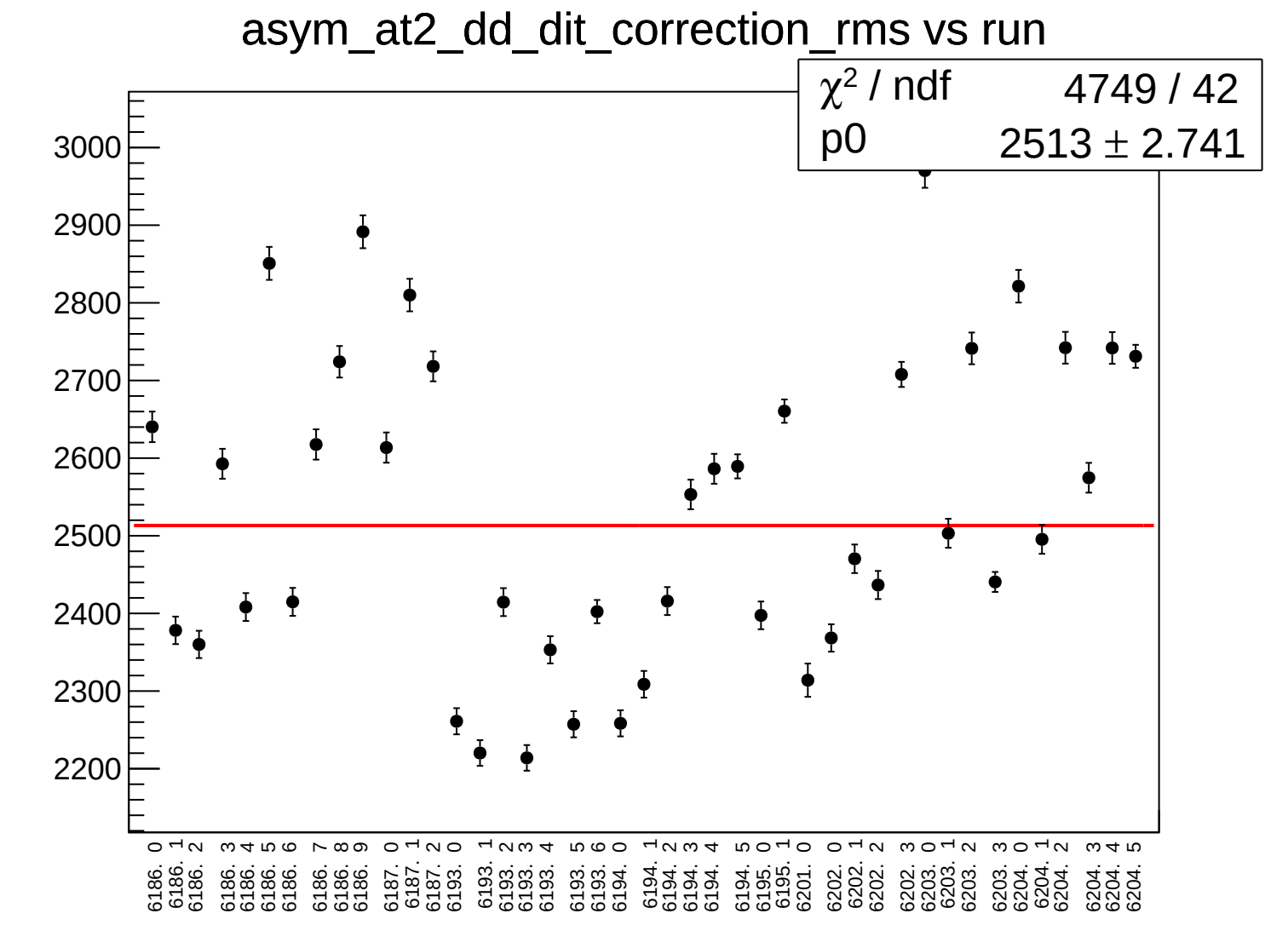
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

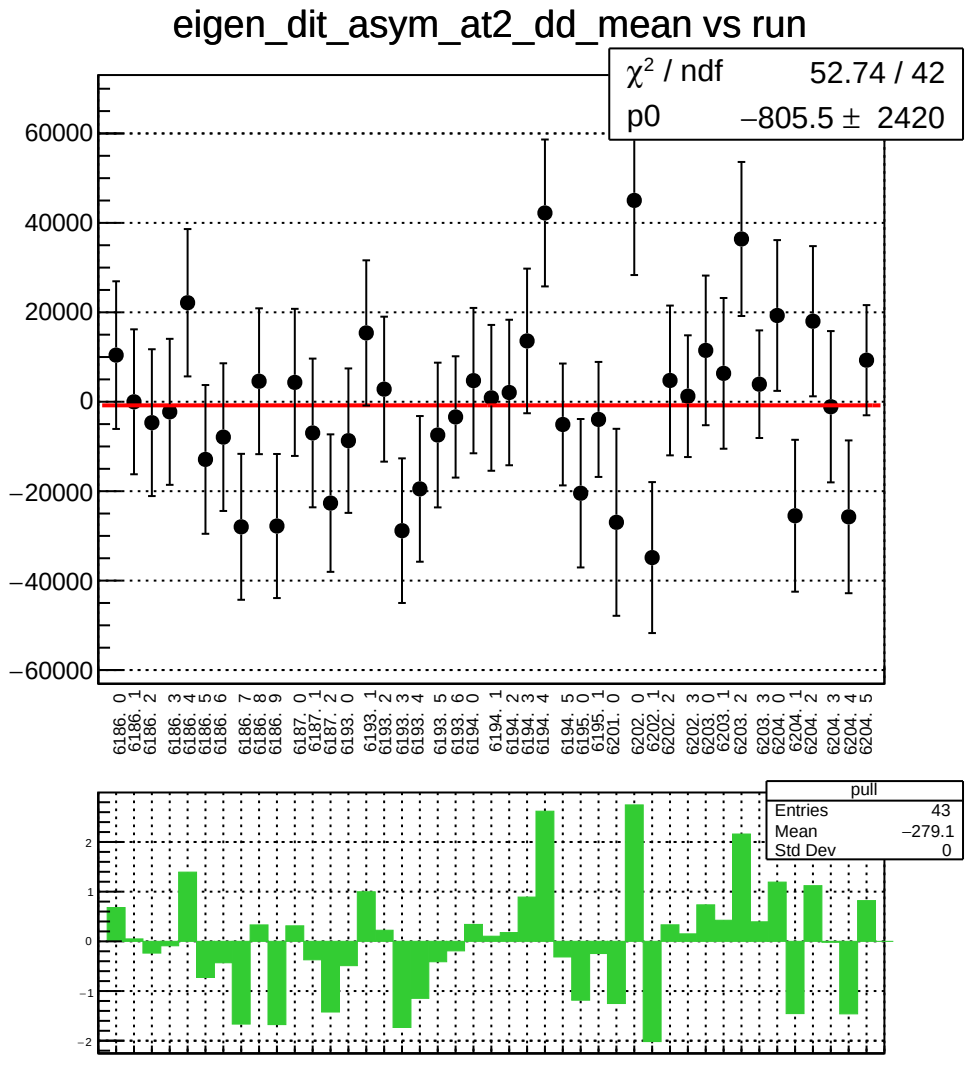

dit_asym_at2_dd_mean vs run
χ² / ndf 52.74 / 42
p0 −805.5 ± 2420
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −279.1
Std Dev 0
2
1
0
−1
−2

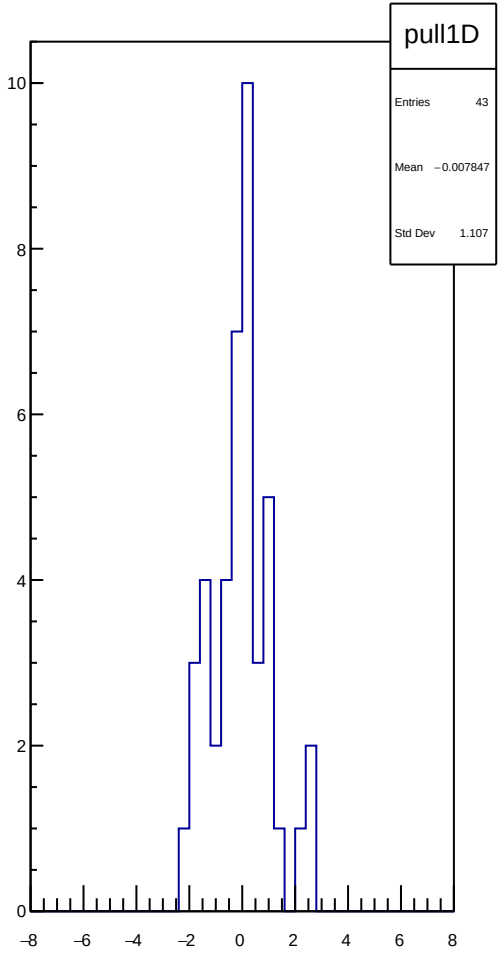

pull1D
Entries 43
Mean −0.007846
Std Dev 1.107
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

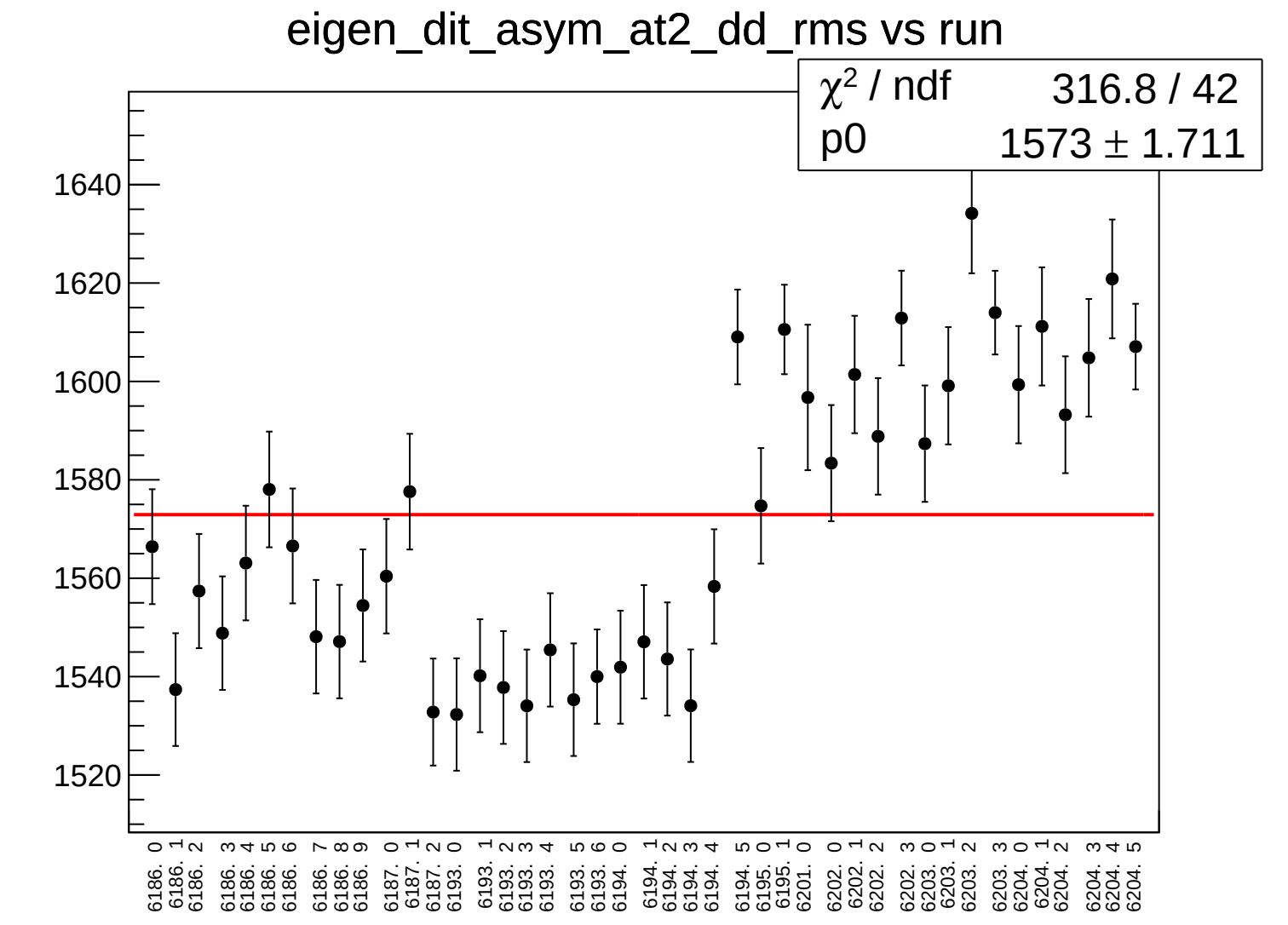

dit_asym_at2_dd_rms vs run
χ² / ndf 316.8 / 42
p0 1573 ± 1.711
1640
1620
1600
1580
1560
1540
1520
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

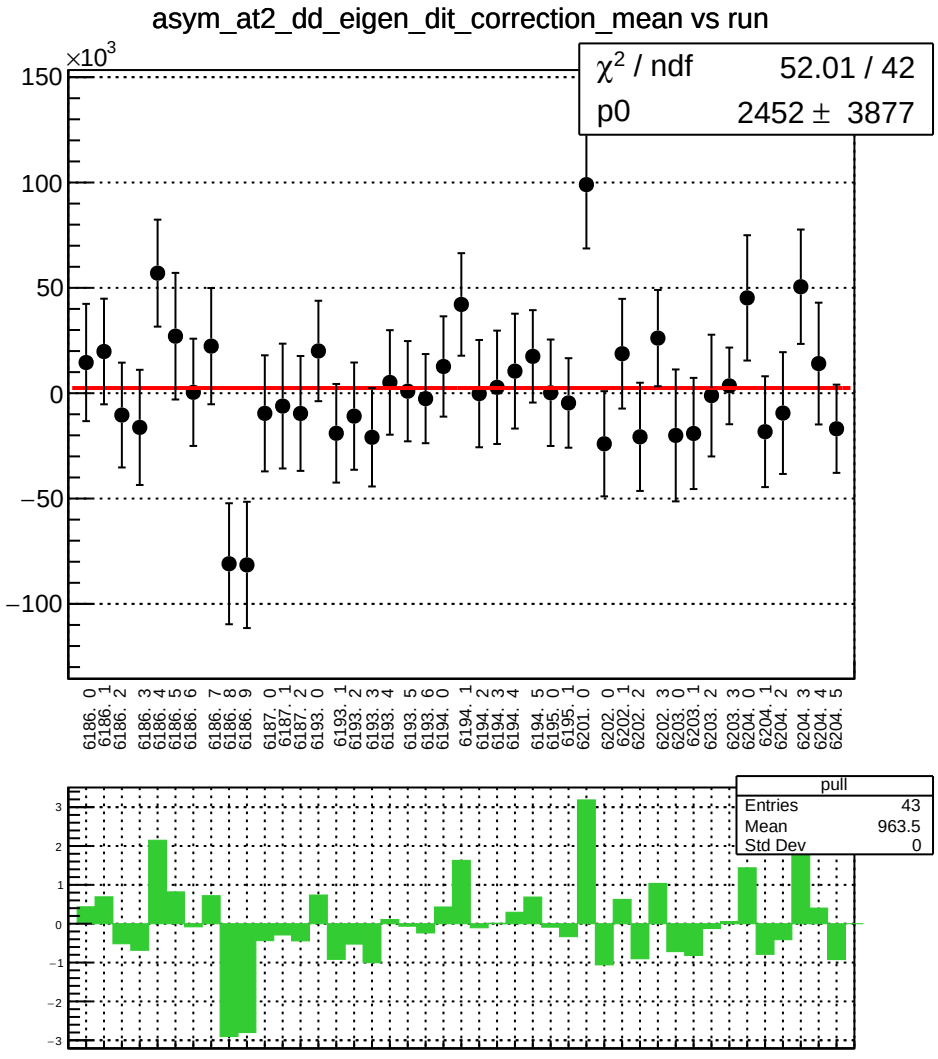

asym_at2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 52.01 / 42
p0 2452 ± 3877
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 963.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.001468
Std Dev 1.1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

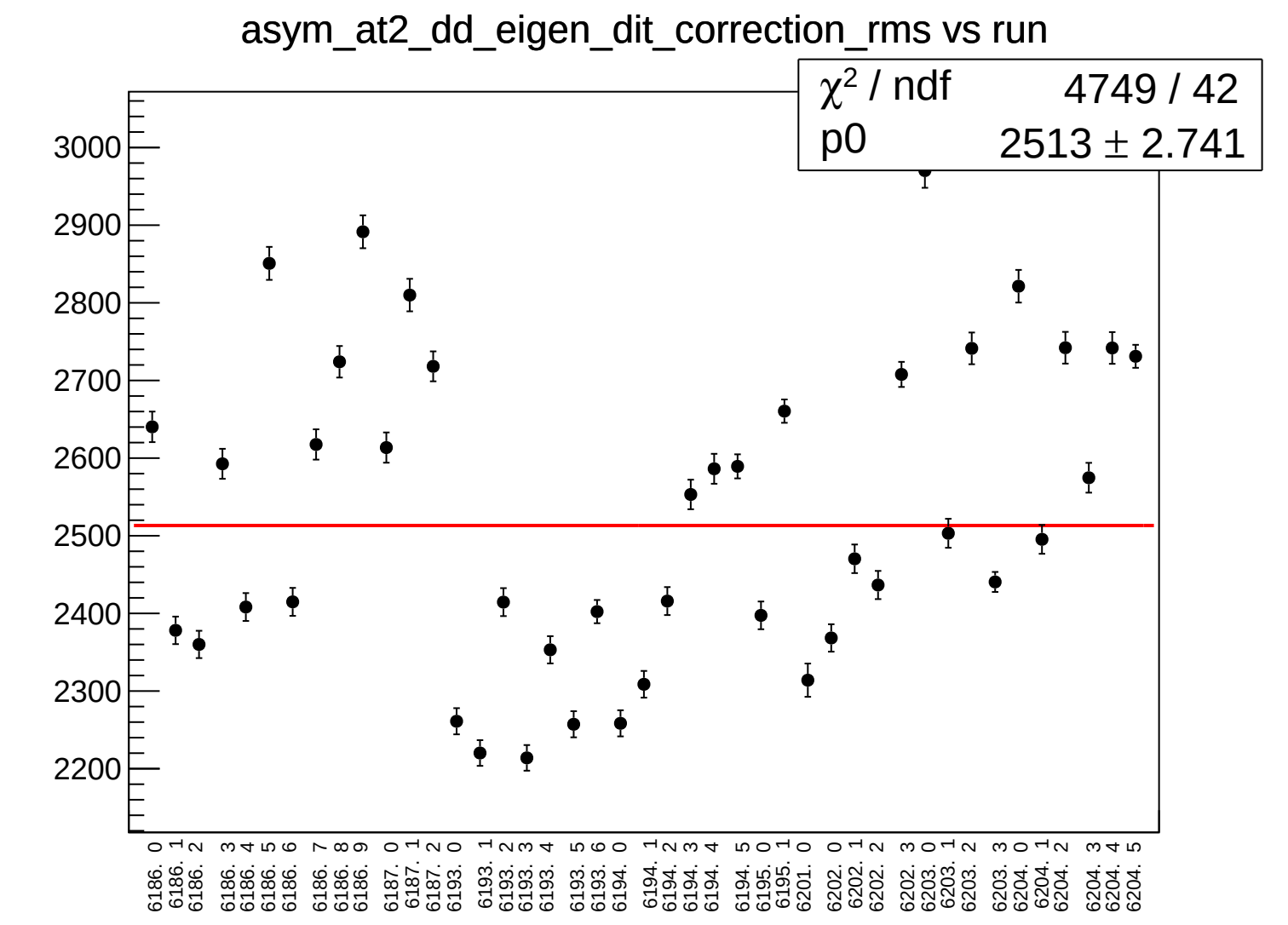

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 4749 / 42
p0 2513 ± 2.741
3000
2900
2800
2700
2600
2500
2400
2300
2200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

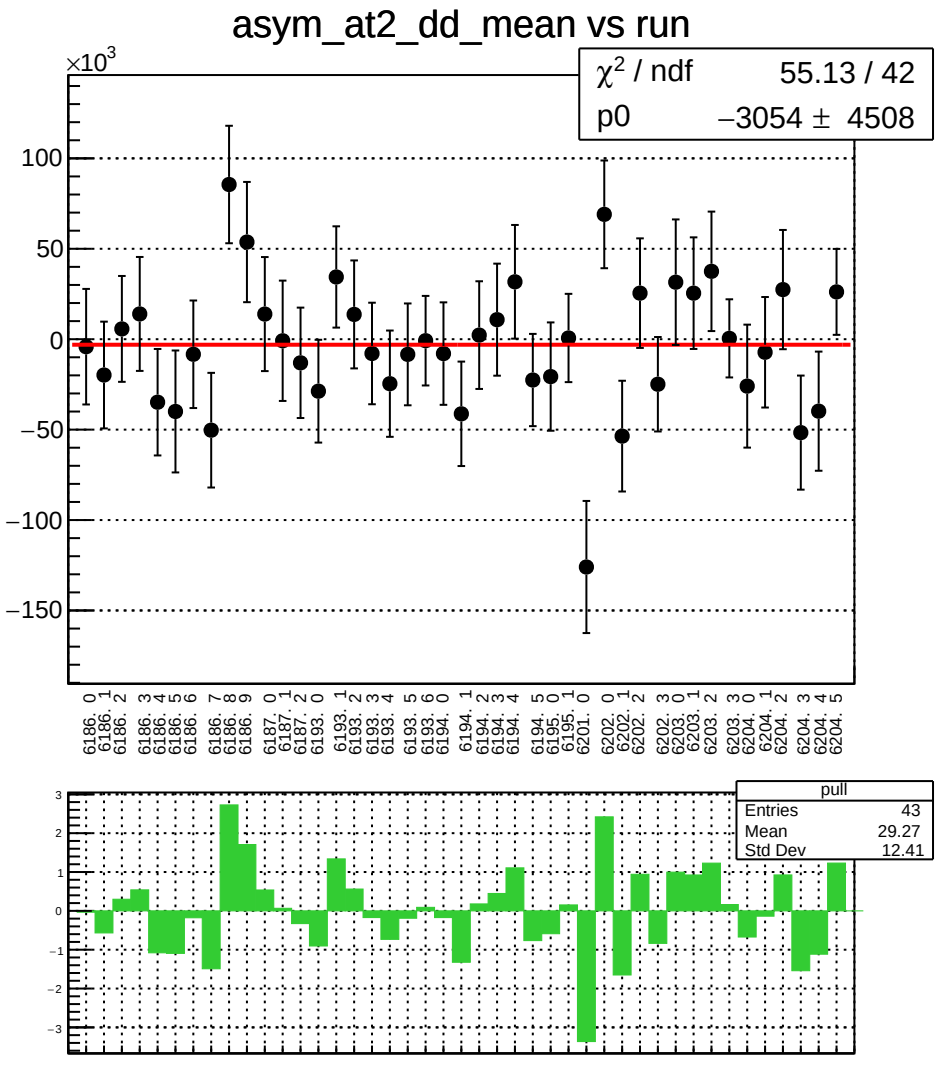

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 52.74 / 42
p0 −805.5 ± 2420
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −279.1
Std Dev 0
2
1
0
−1
−2

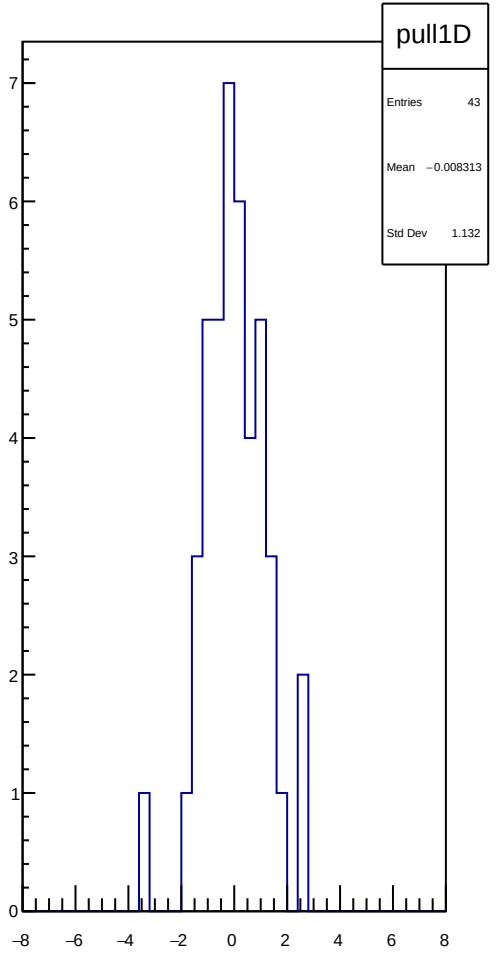

pull1D
Entries 43
Mean −0.007847
Std Dev 1.107
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

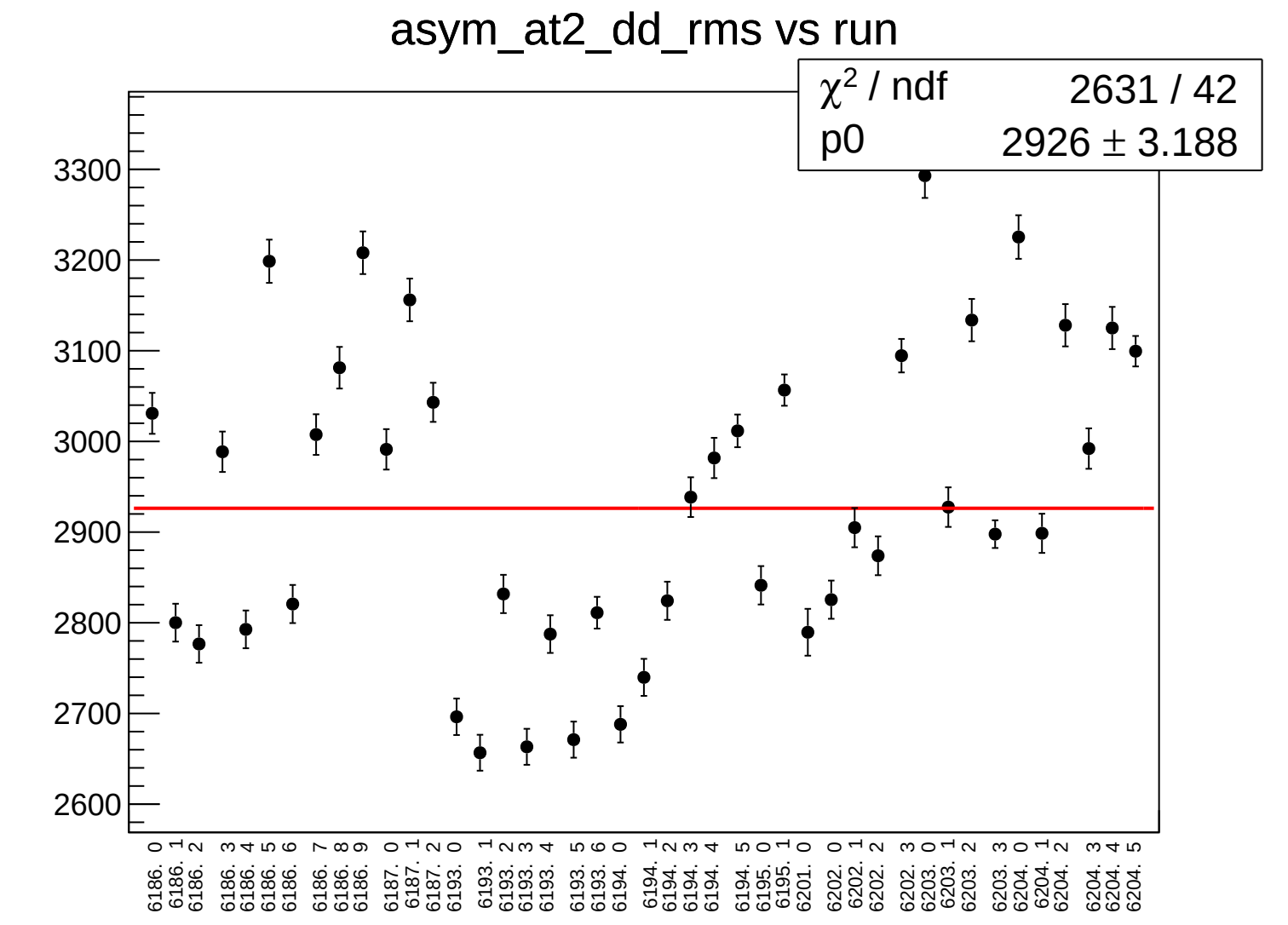

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 316.8 / 42
p0 1573 ± 1.711
1640
1620
1600
1580
1560
1540
1520
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

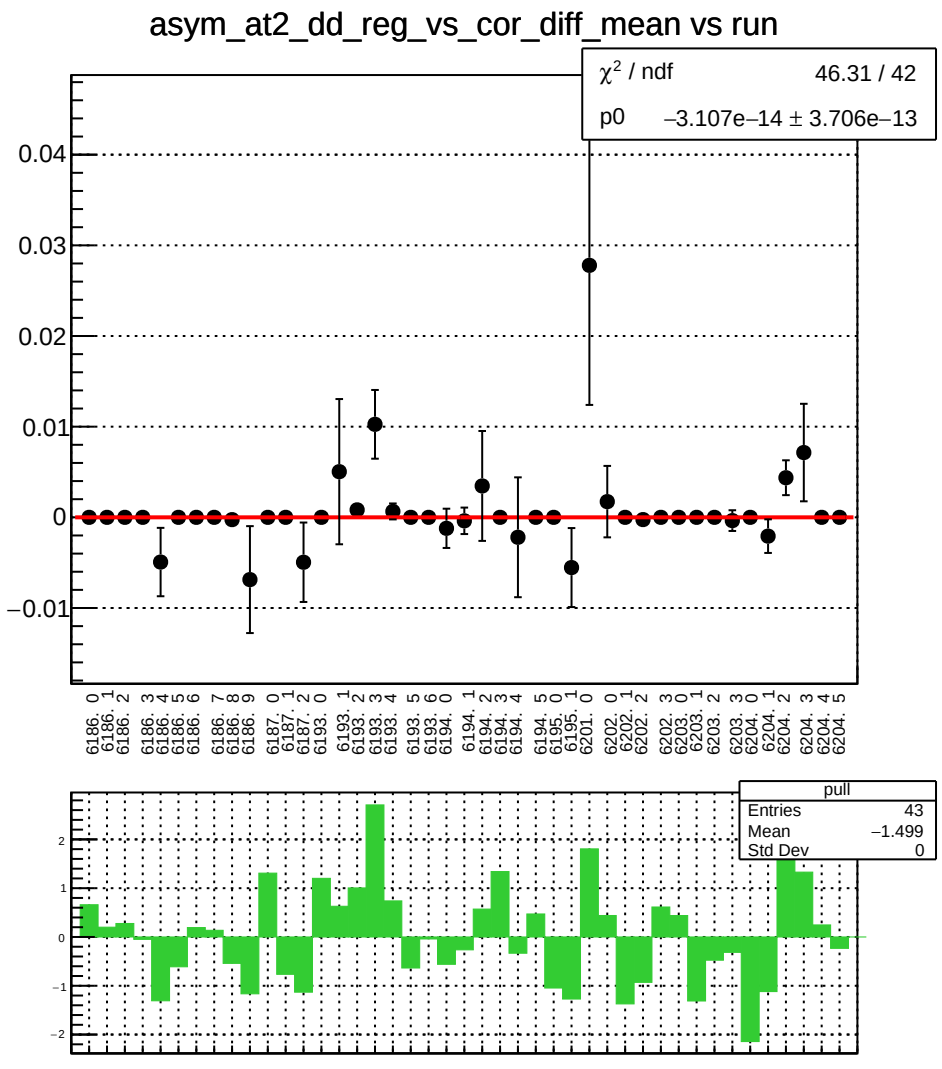

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 52.01 / 42
p0 2452 ± 3877
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 963.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.001468
Std Dev 1.1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

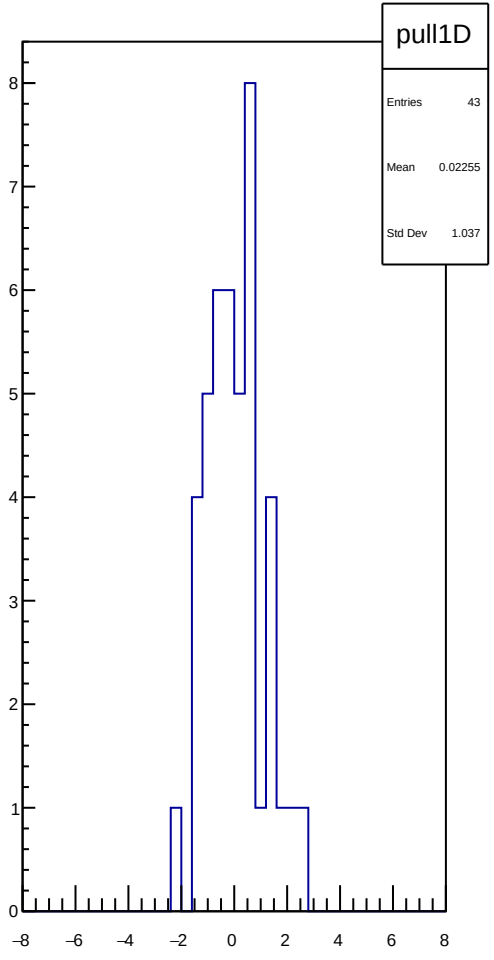

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4749 / 42
p0 2513 ± 2.741
3000
2900
2800
2700
2600
2500
2400
2300
2200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

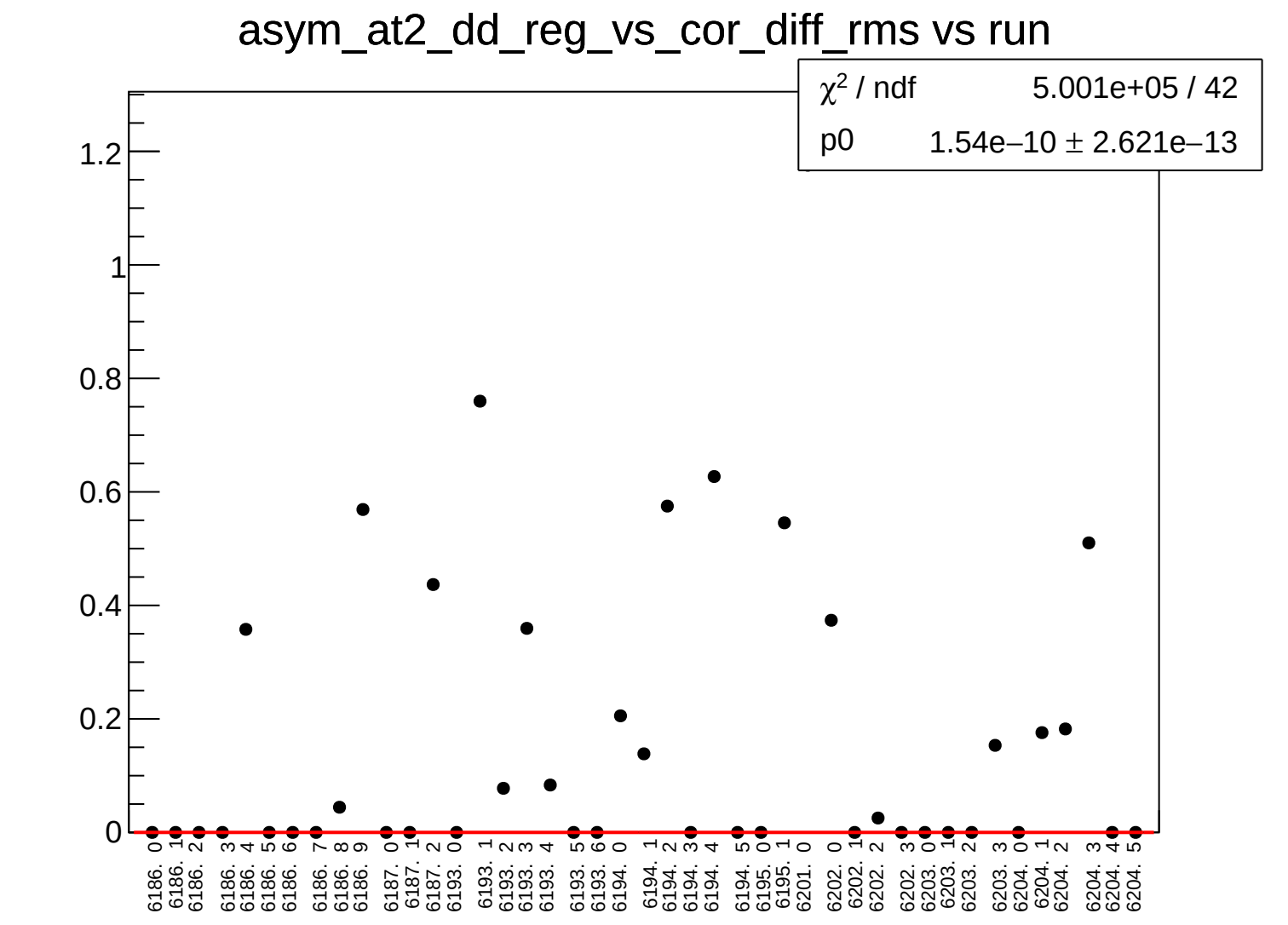

asym_at2_dd_mean vs run
×10^3
χ² / ndf 55.13 / 42
p0 −3054 ± 4508
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 29.27
Std Dev 12.41
3
2
1
0
−1
−2
−3

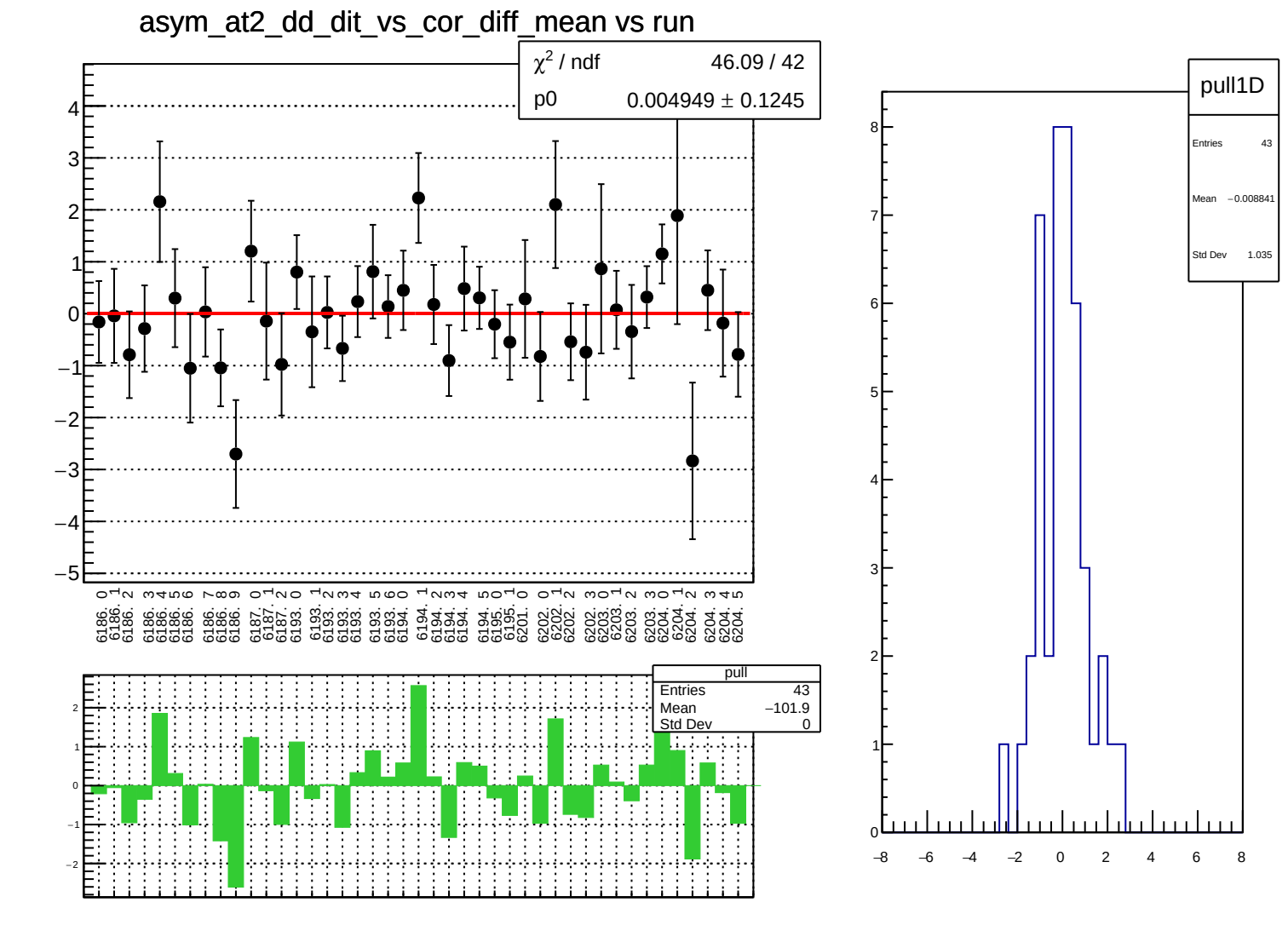

pull1D
Entries 43
Mean −0.008313
Std Dev 1.132
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

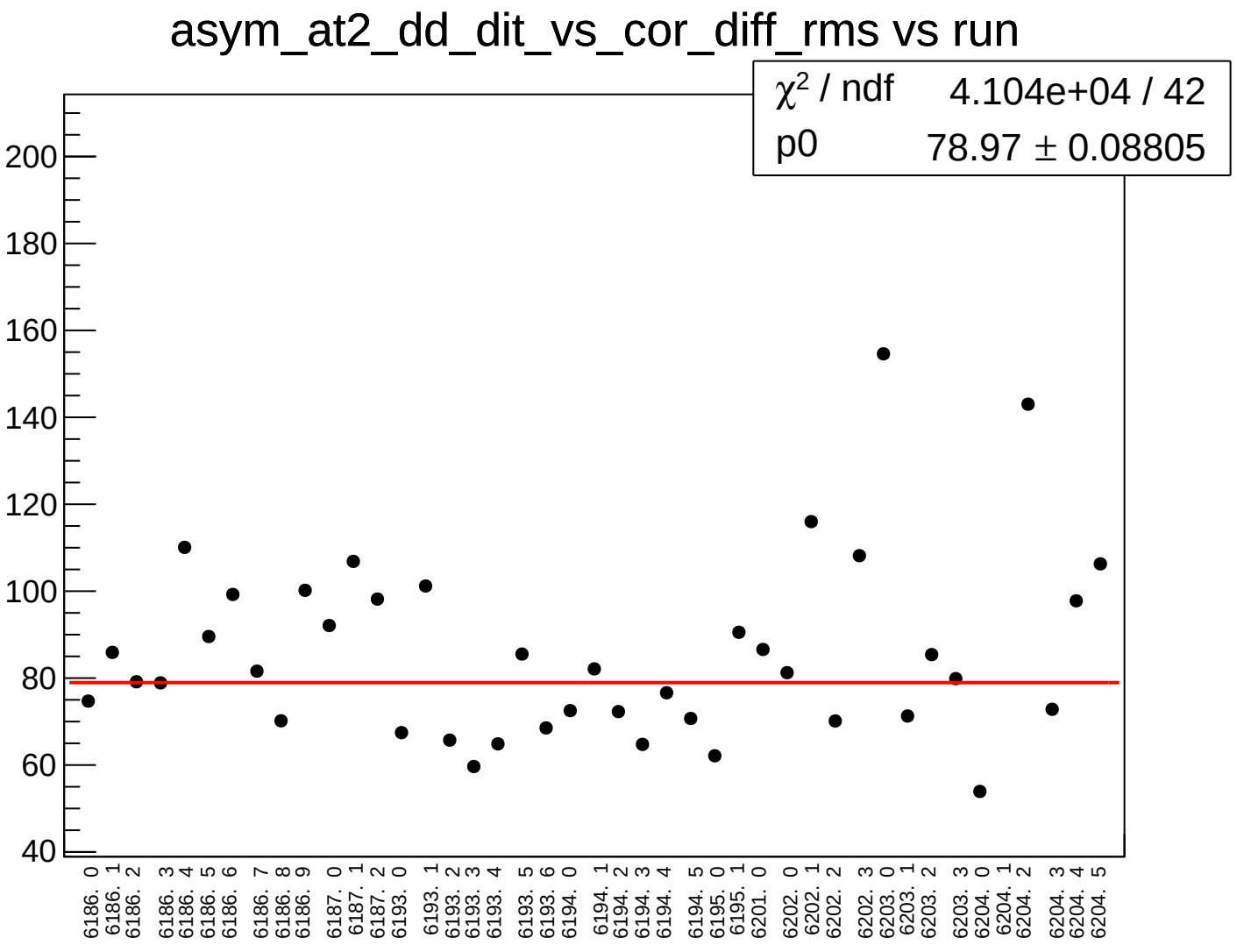

asym_at2_dd_rms vs run
χ² / ndf 2631 / 42
p0 2926 ± 3.188
3300
3200
3100
3000
2900
2800
2700
2600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 46.31 / 42
p0 −3.107e−14 ± 3.706e−13
0.04
0.03
0.02
0.01
0
−0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1.499
Std Dev 0
2
1
0
−1
−2

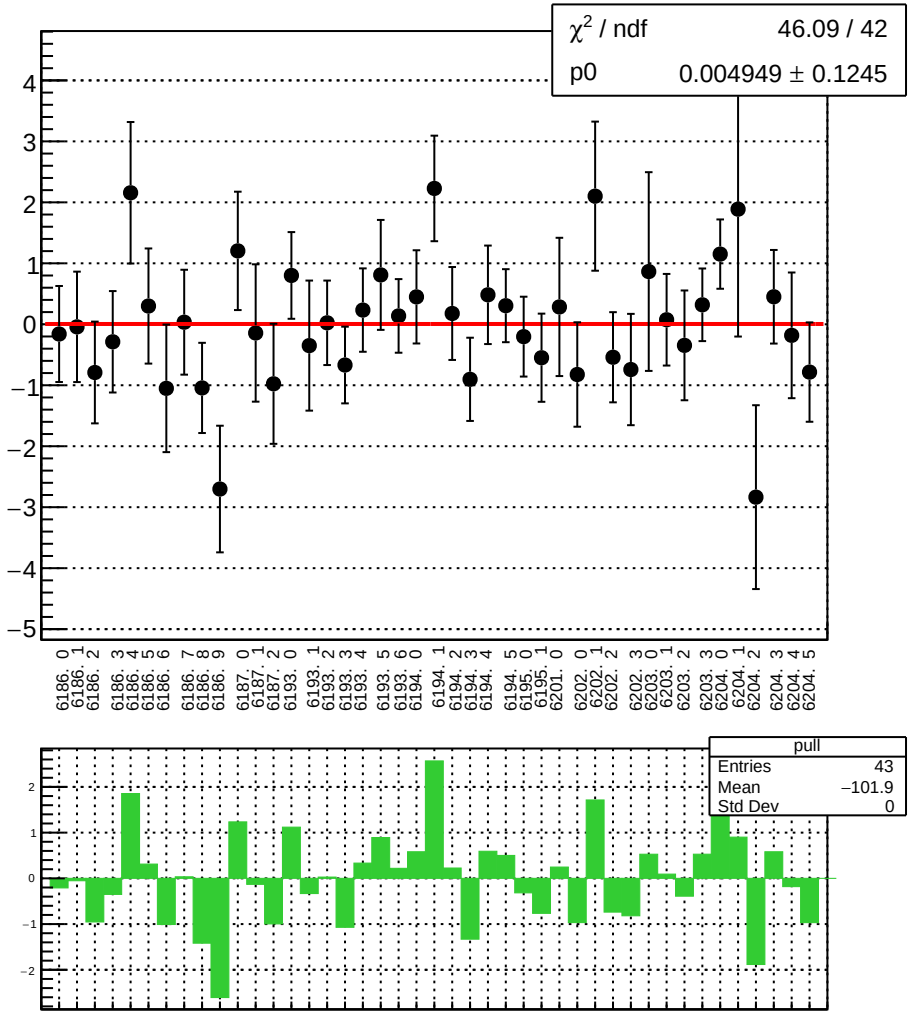

pull1D
Entries 43
Mean 0.02255
Std Dev 1.037
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

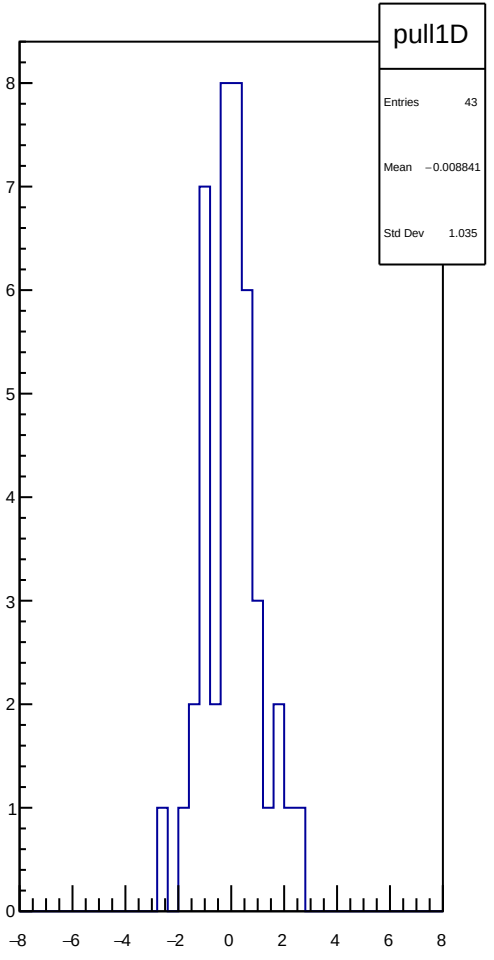

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.001e+05 / 42
p0 1.54e−10 ± 2.621e−13
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

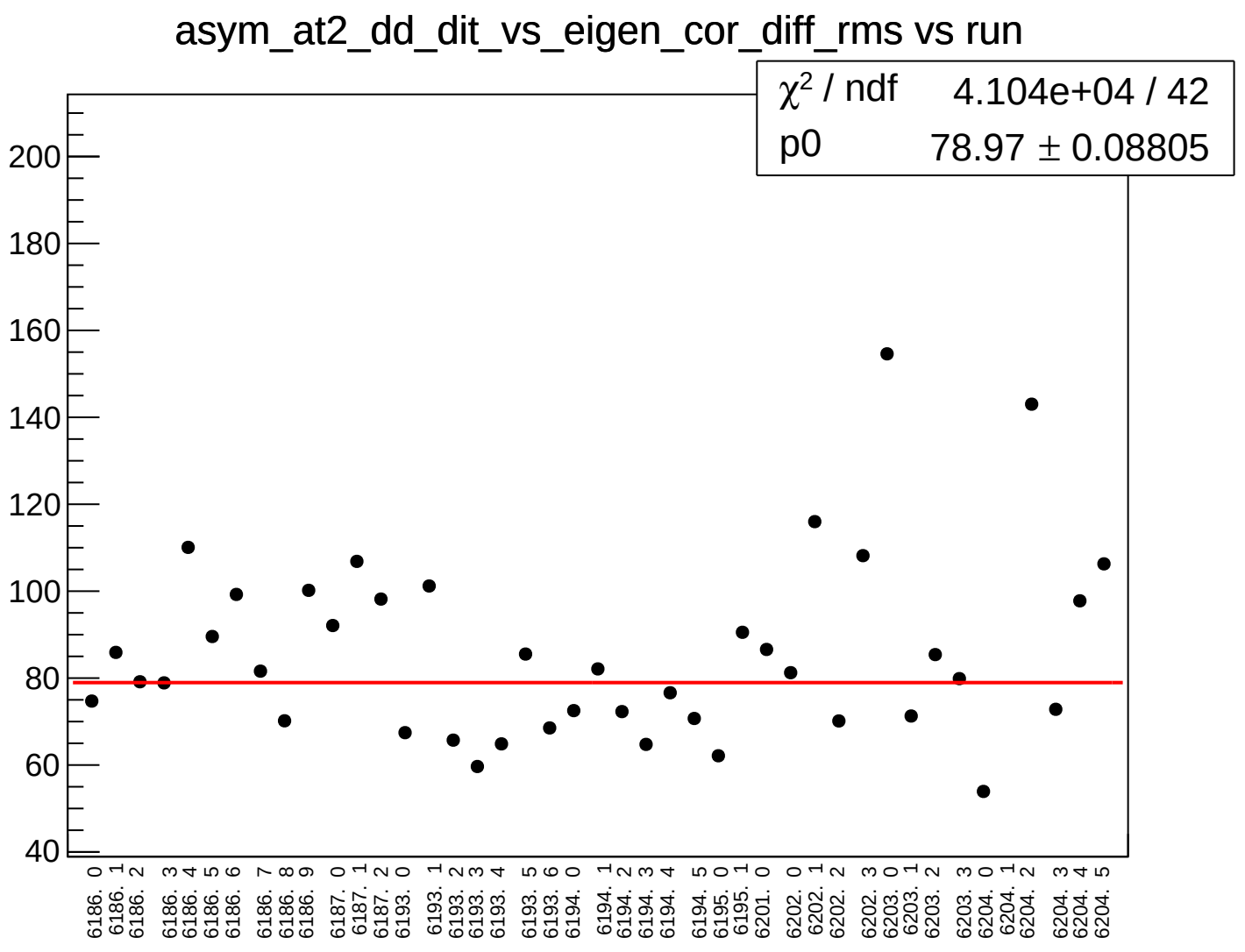

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 46.09 / 42
p0 0.004949 ± 0.1245
pull
Entries 43
Mean −101.9
Std Dev 0
pull1D
Entries 43
Mean −0.008841
Std Dev 1.035

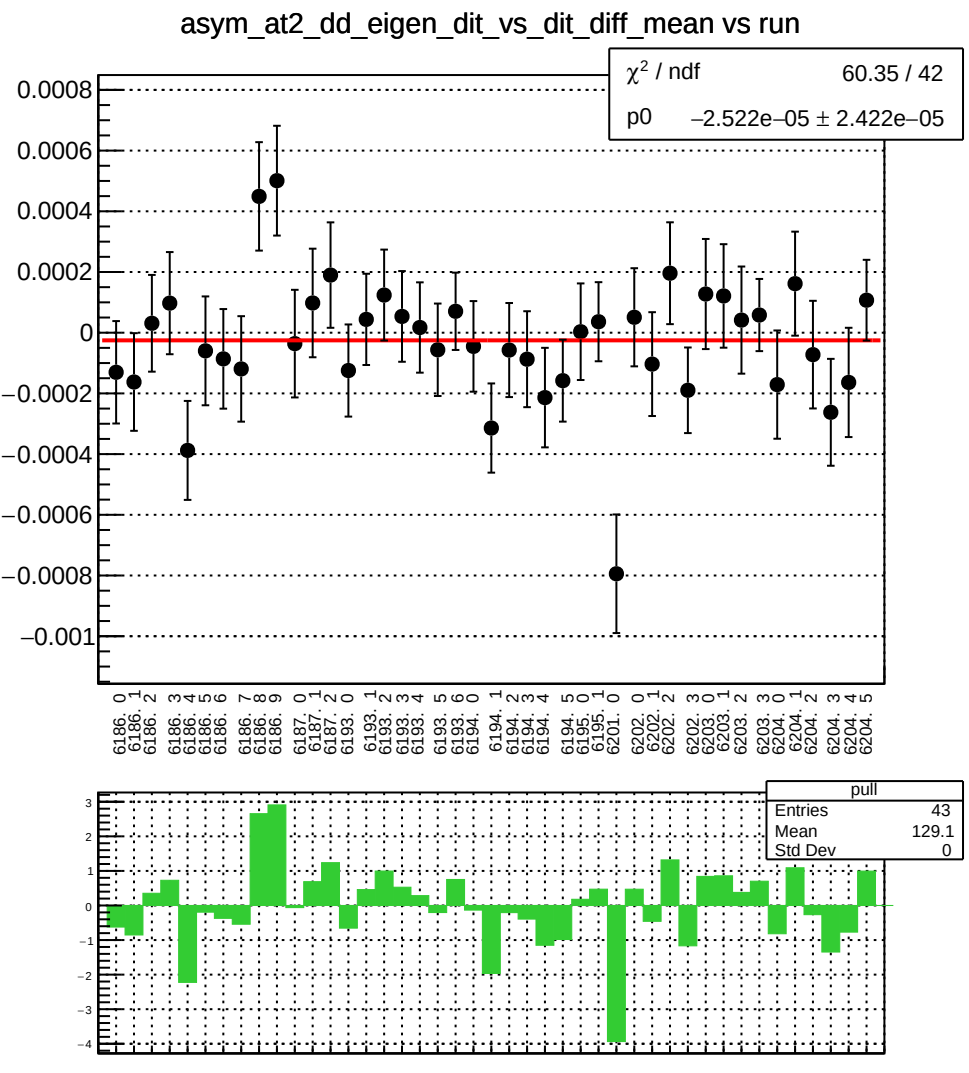

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.104e+04 / 42
p0 78.97 ± 0.08805
200
180
160
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

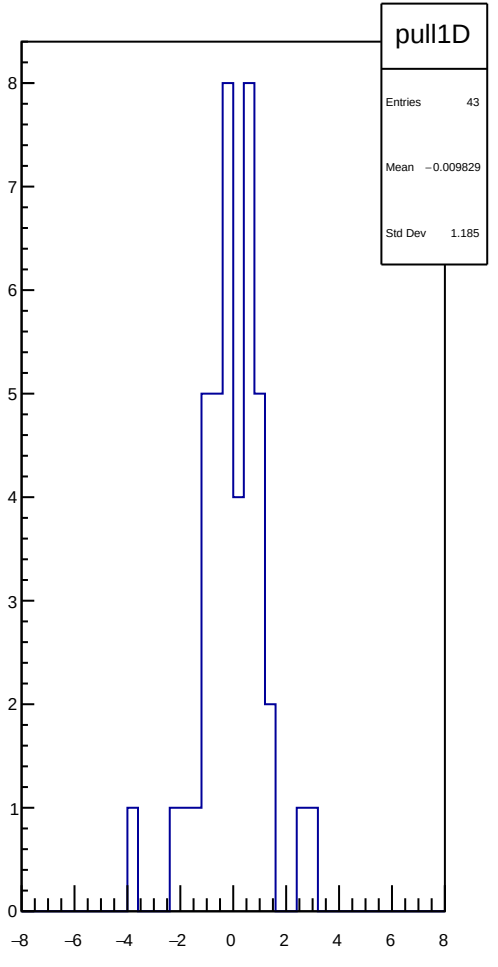
asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run

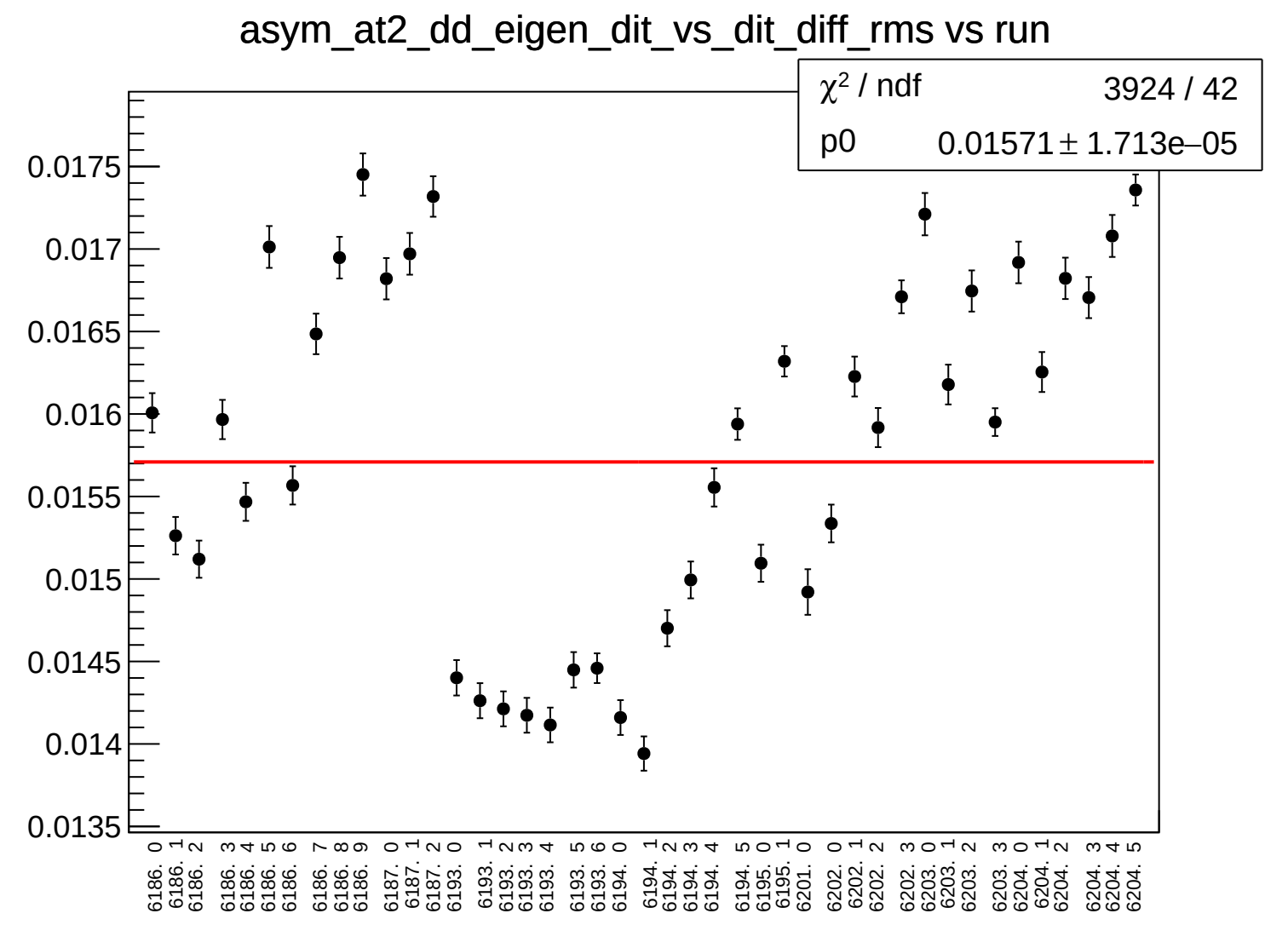


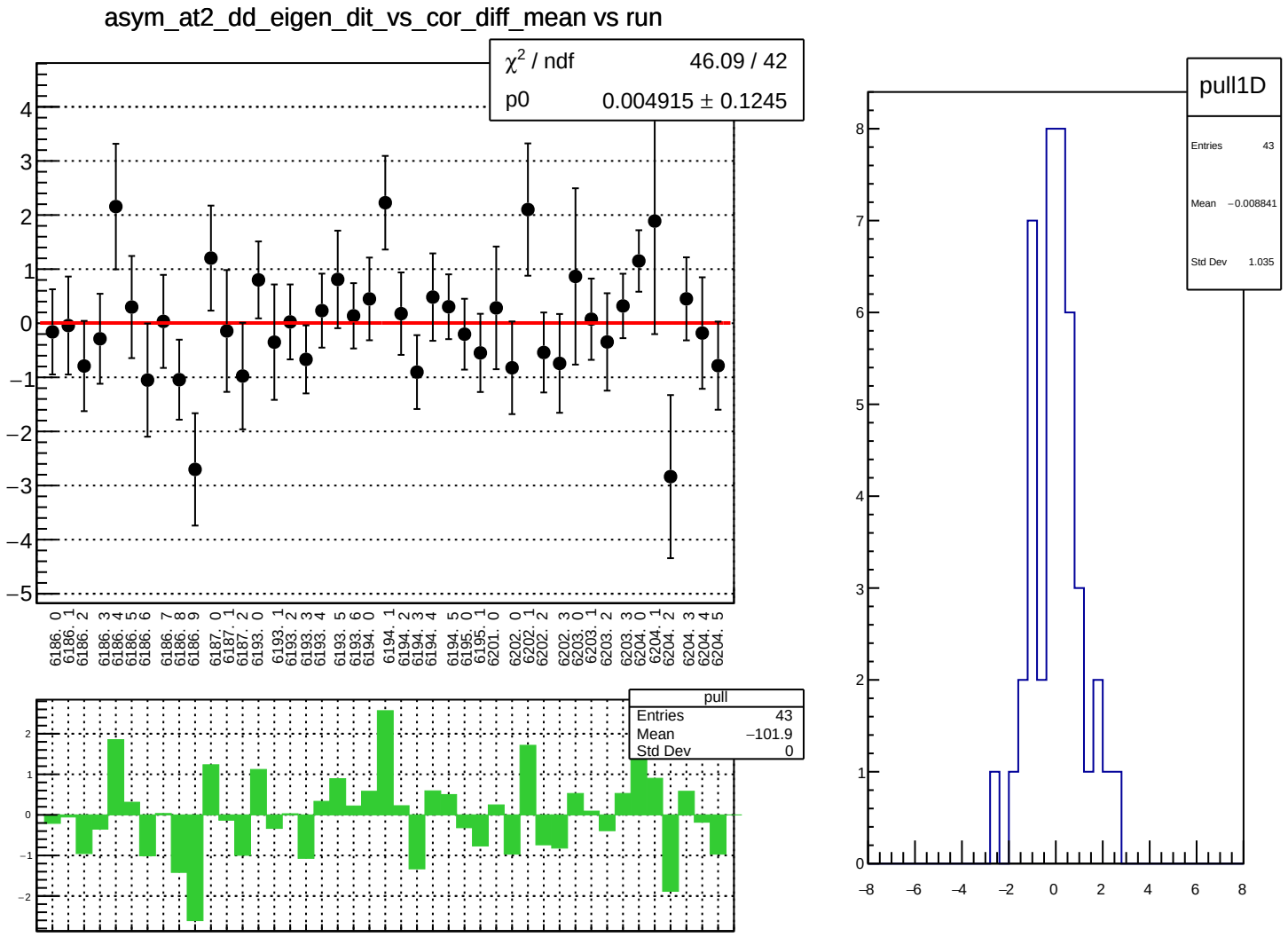


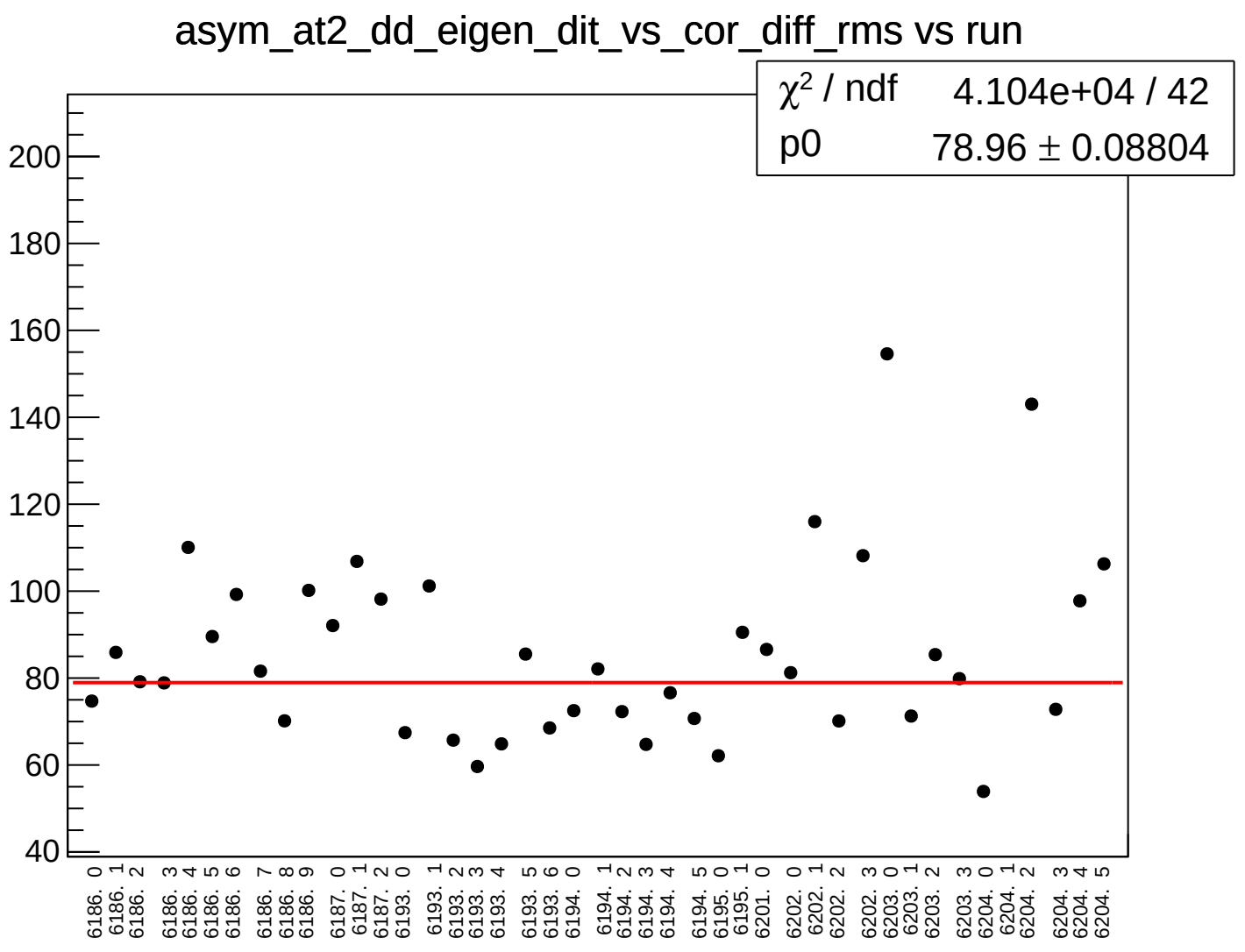

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.104e+04 / 42
p0 78.97 ± 0.08805
200
180
160
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

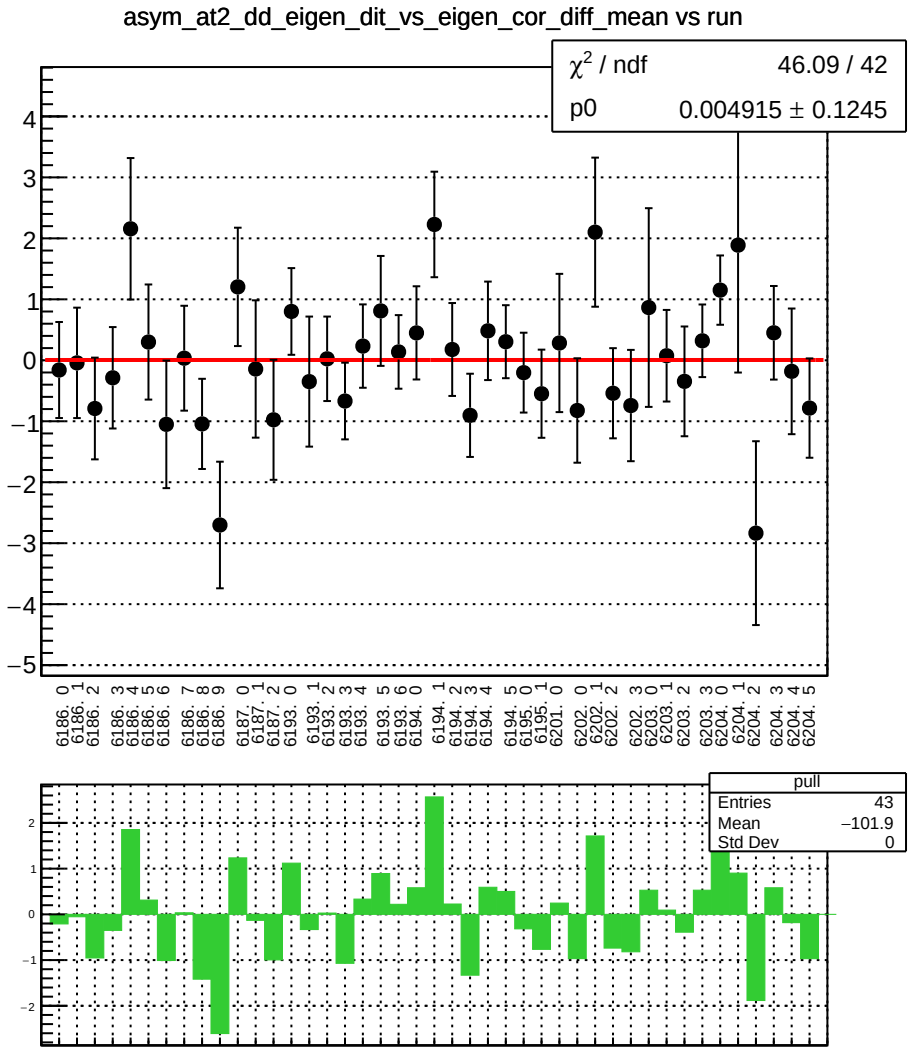

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 60.35 / 42
p0 −2.522e−05 ± 2.422e−05
pull
Entries 43
Mean 129.1
Std Dev 0

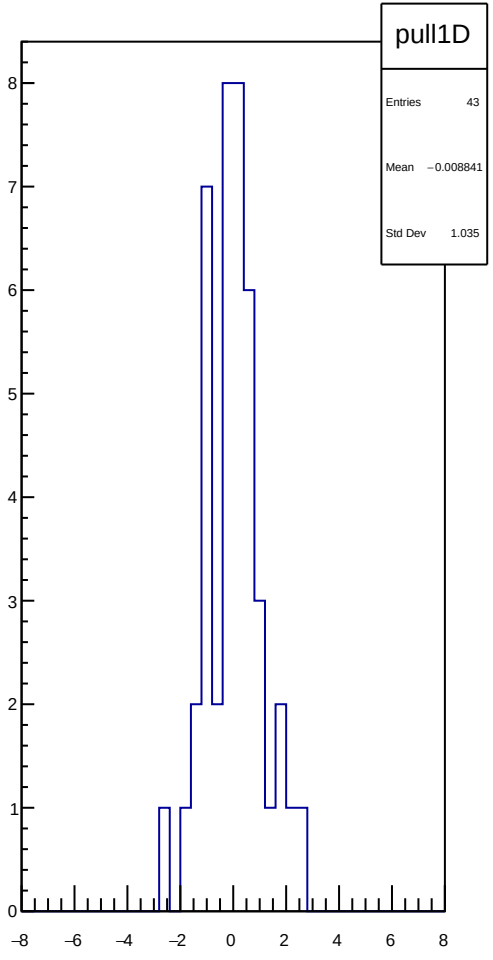

pull1D
Entries 43
Mean −0.009829
Std Dev 1.185

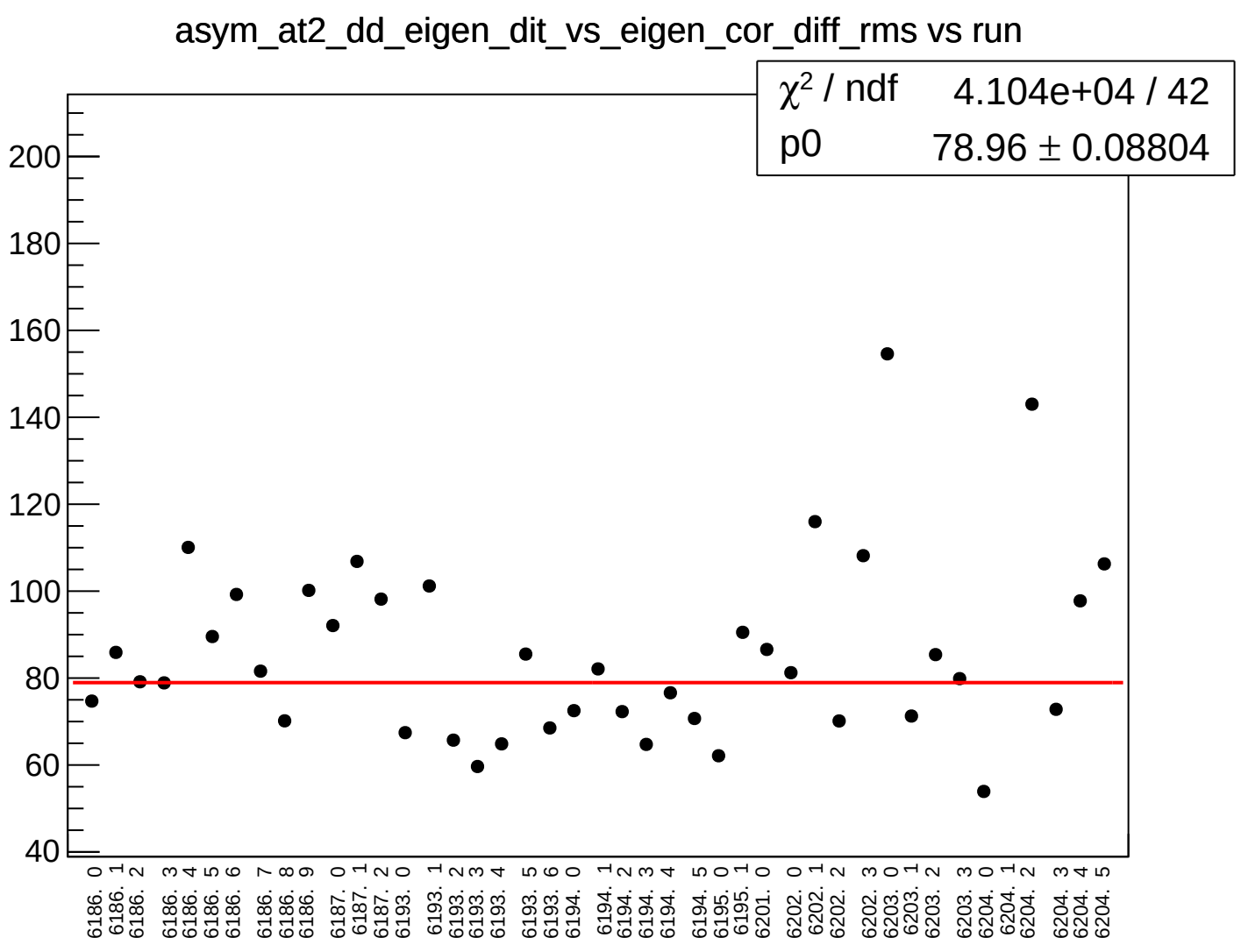

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3924 / 42
p0 0.01571 ± 1.713e–05
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

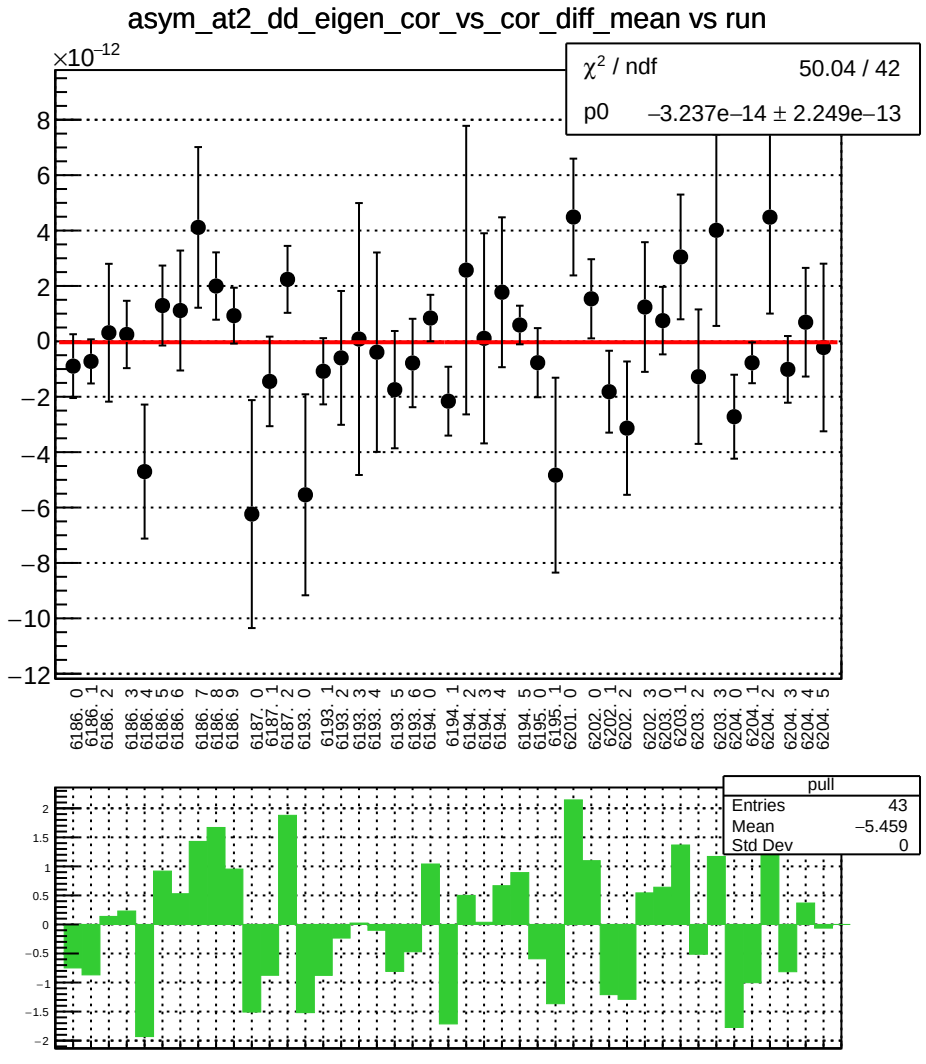

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.09 / 42
p0 0.004915 ± 0.1245
pull
Entries 43
Mean −101.9
Std Dev 0
pull1D
Entries 43
Mean −0.008841
Std Dev 1.035

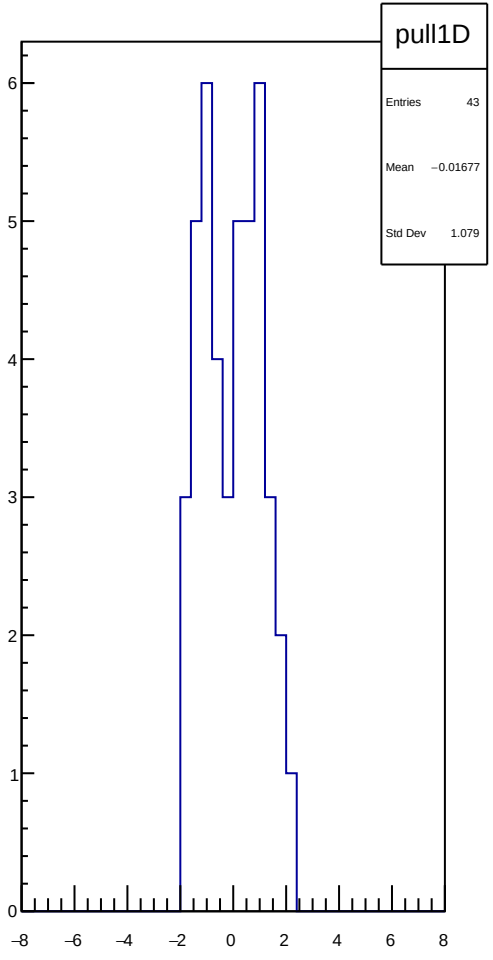

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.104e+04 / 42
p0 78.96 ± 0.08804
200
180
160
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

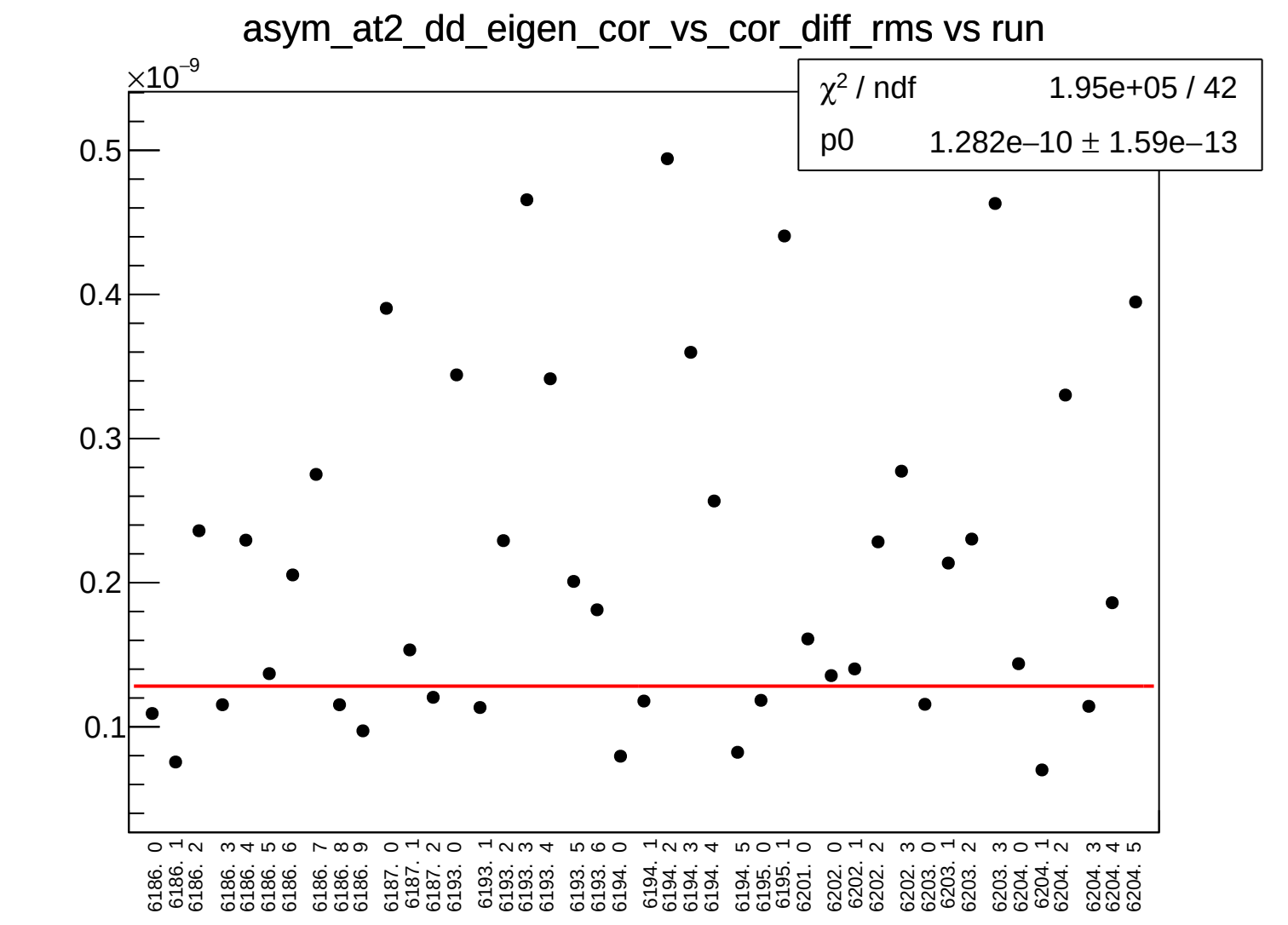

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.09 / 42
p0 0.004915 ± 0.1245
pull
Entries 43
Mean −101.9
Std Dev 0

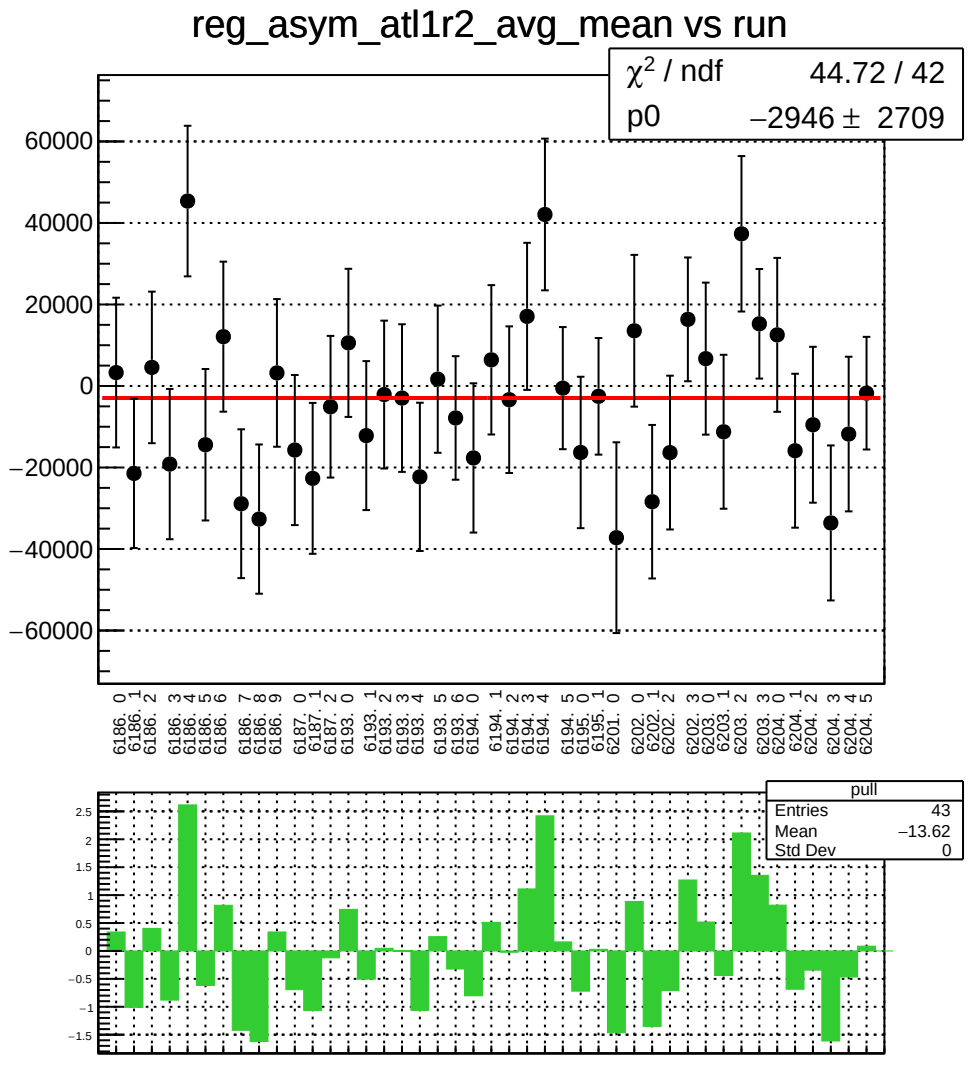

pull1D
Entries 43
Mean −0.008841
Std Dev 1.035

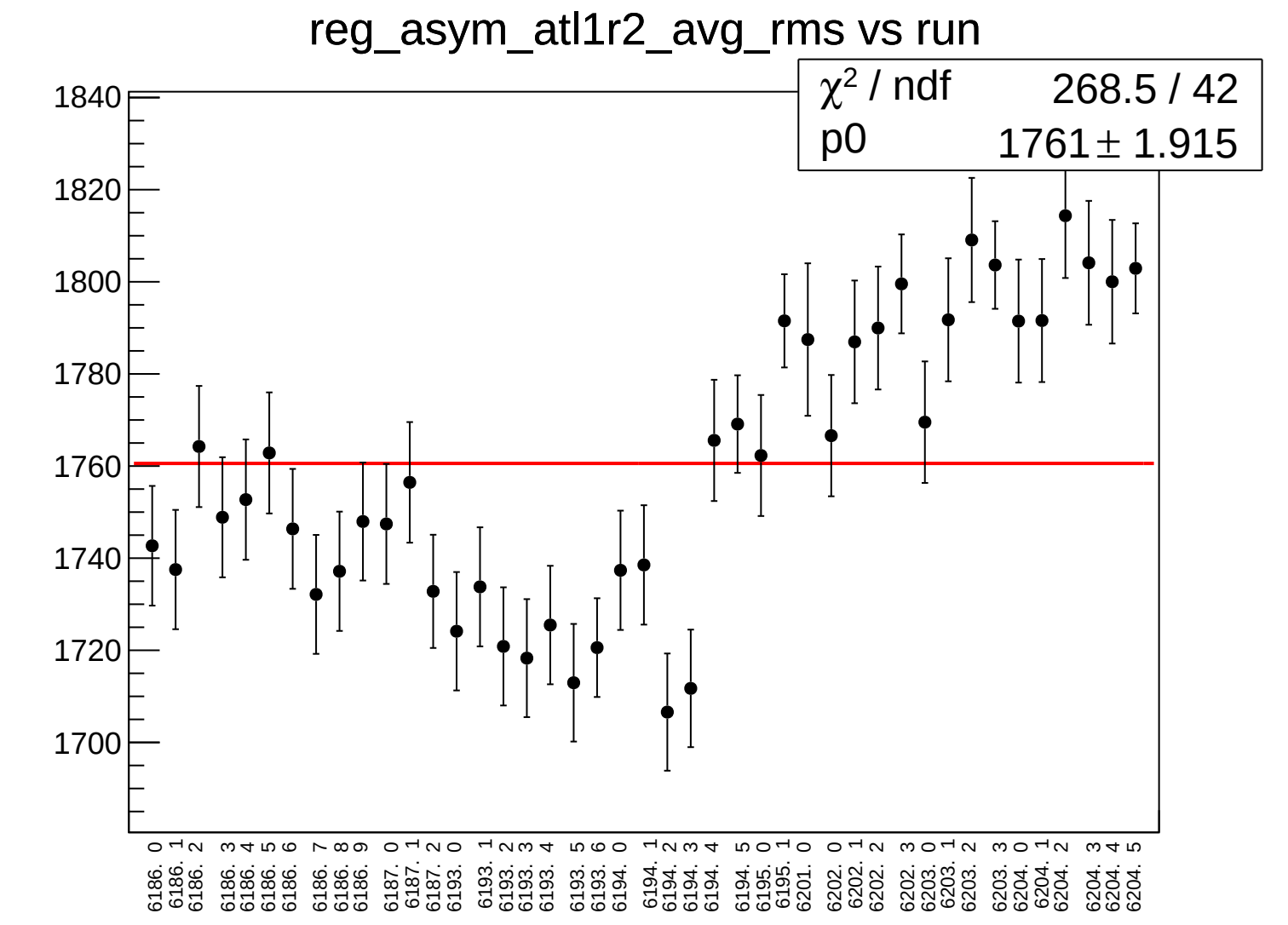

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.104e+04 / 42
p0 78.96 ± 0.08804
200
180
160
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

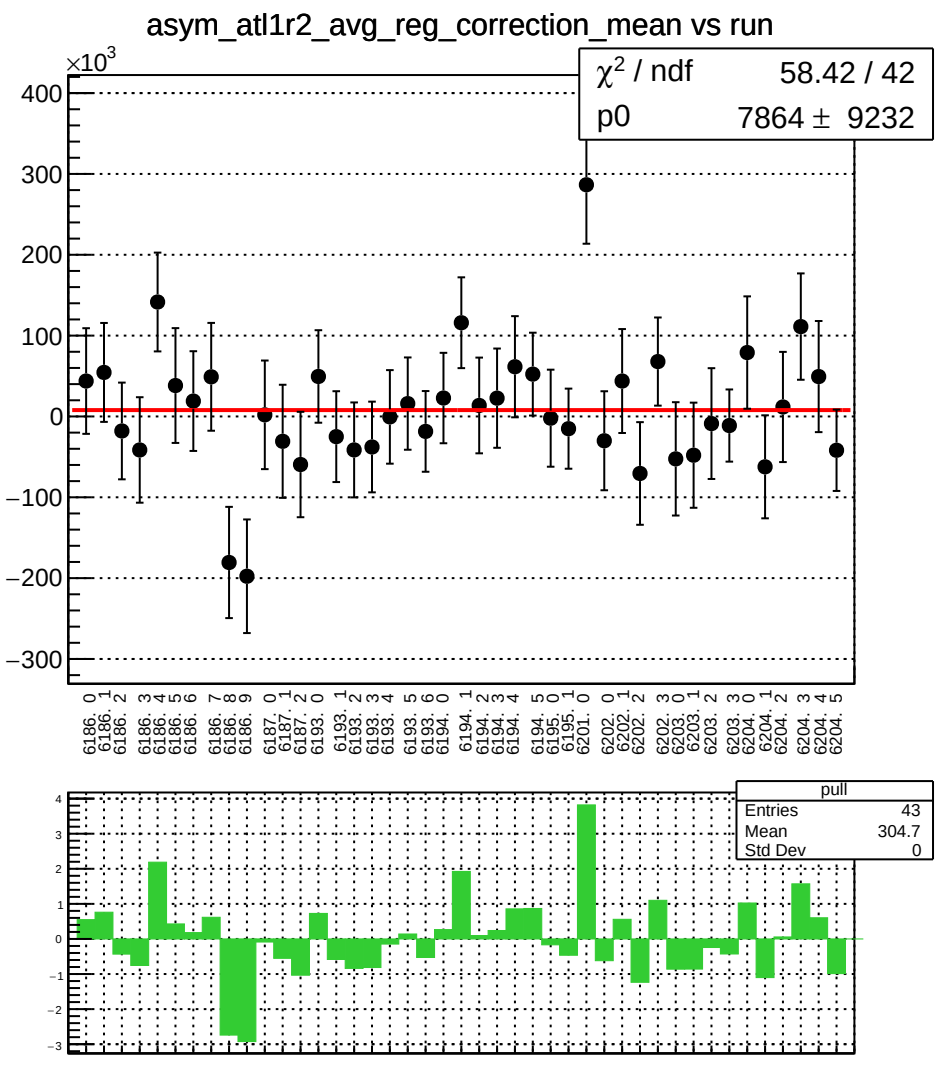

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 50.04 / 42
p0 −3.237e−14 ± 2.249e−13
pull
Entries 43
Mean −5.459
Std Dev 0

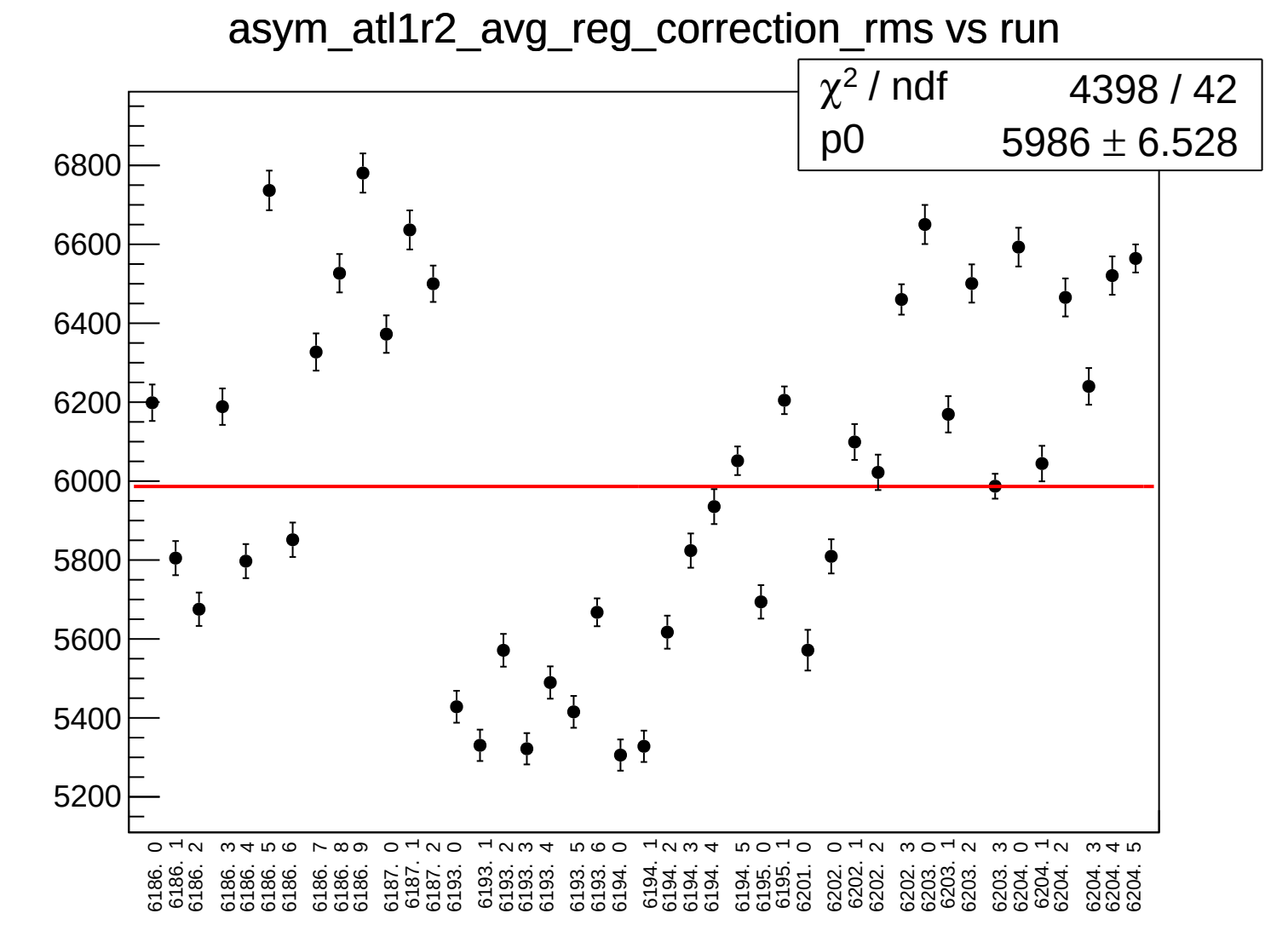

pull1D
Entries 43
Mean −0.01677
Std Dev 1.079

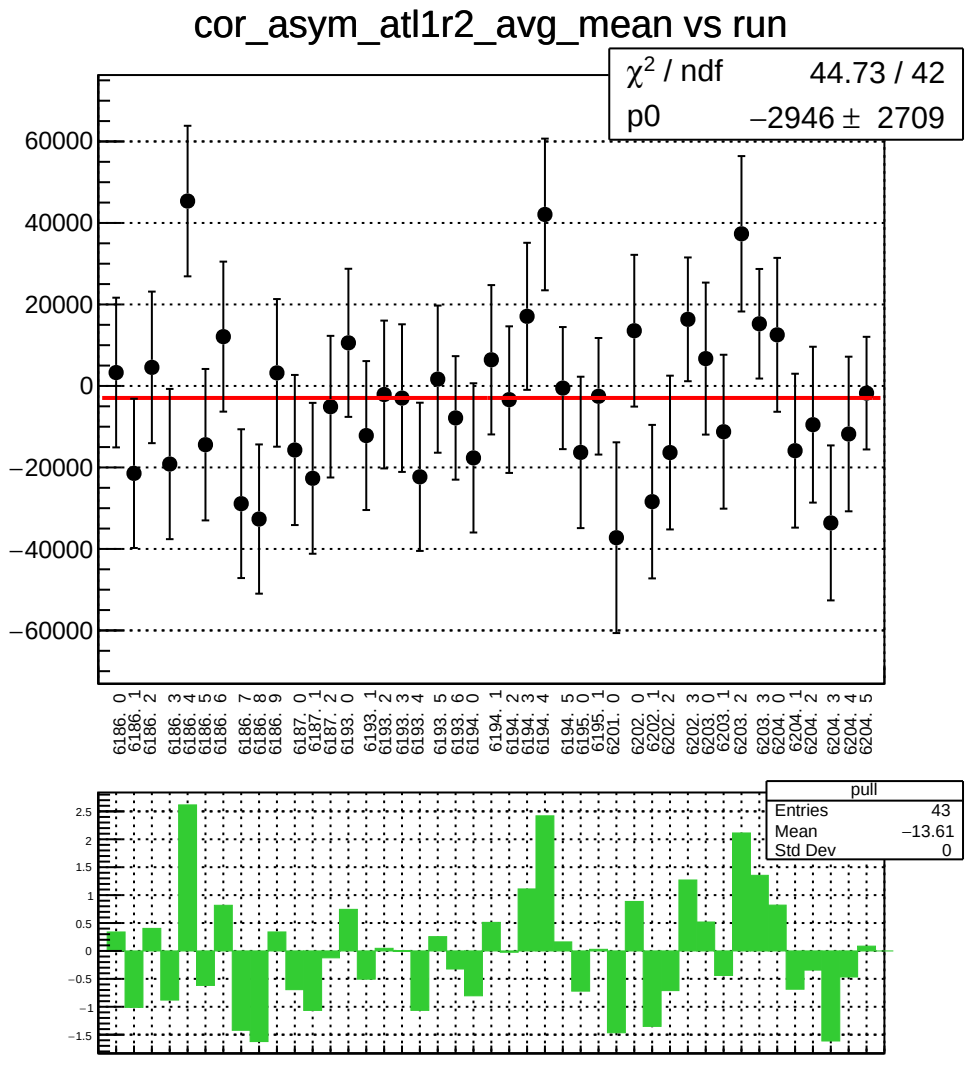

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.95e+05 / 42
p0 1.282e−10 ± 1.59e−13
0.5
0.4
0.3
0.2
0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

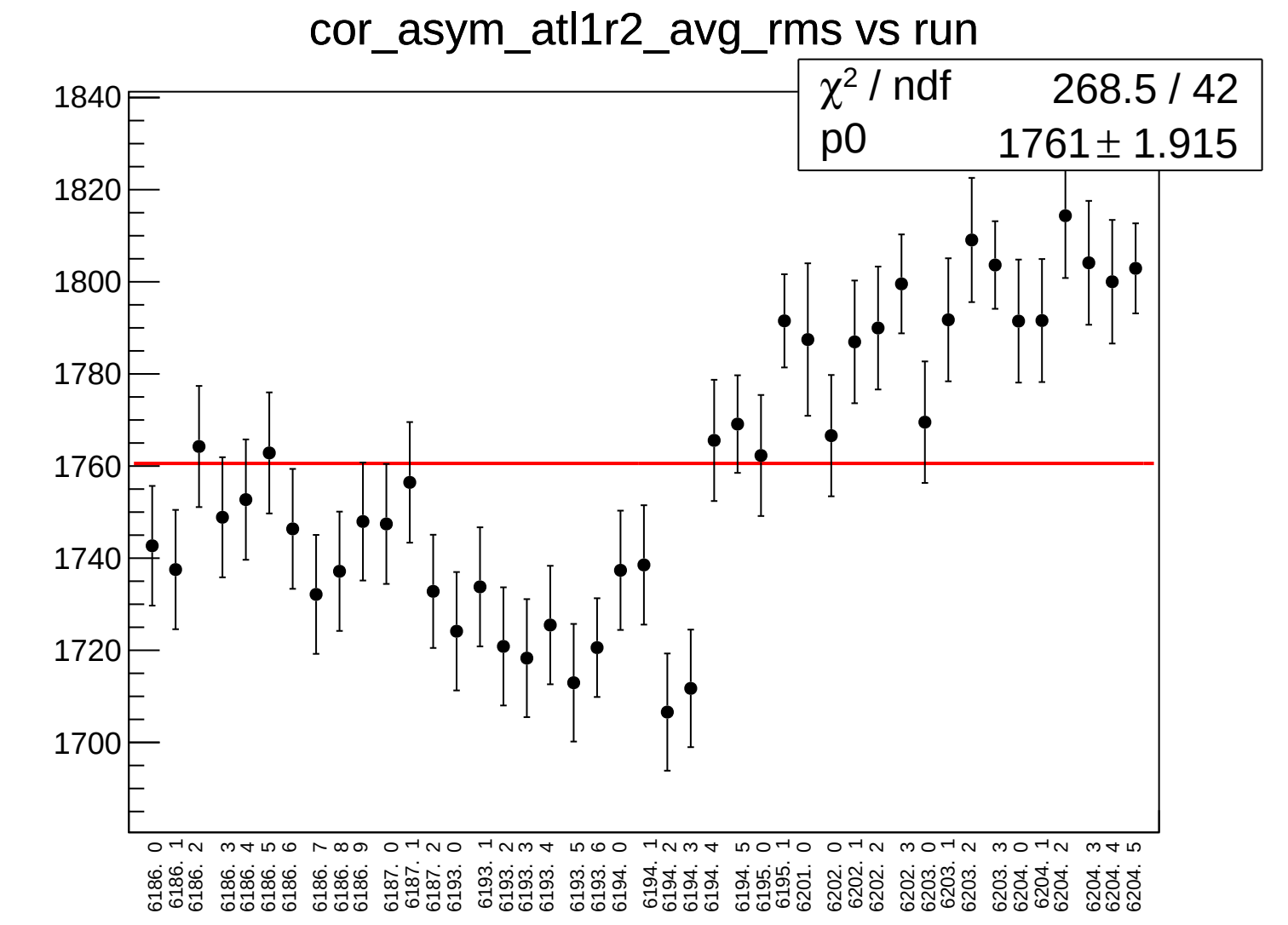

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 44.72 / 42
p0 −2946 ± 2709
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −13.62
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02564
Std Dev 1.02
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

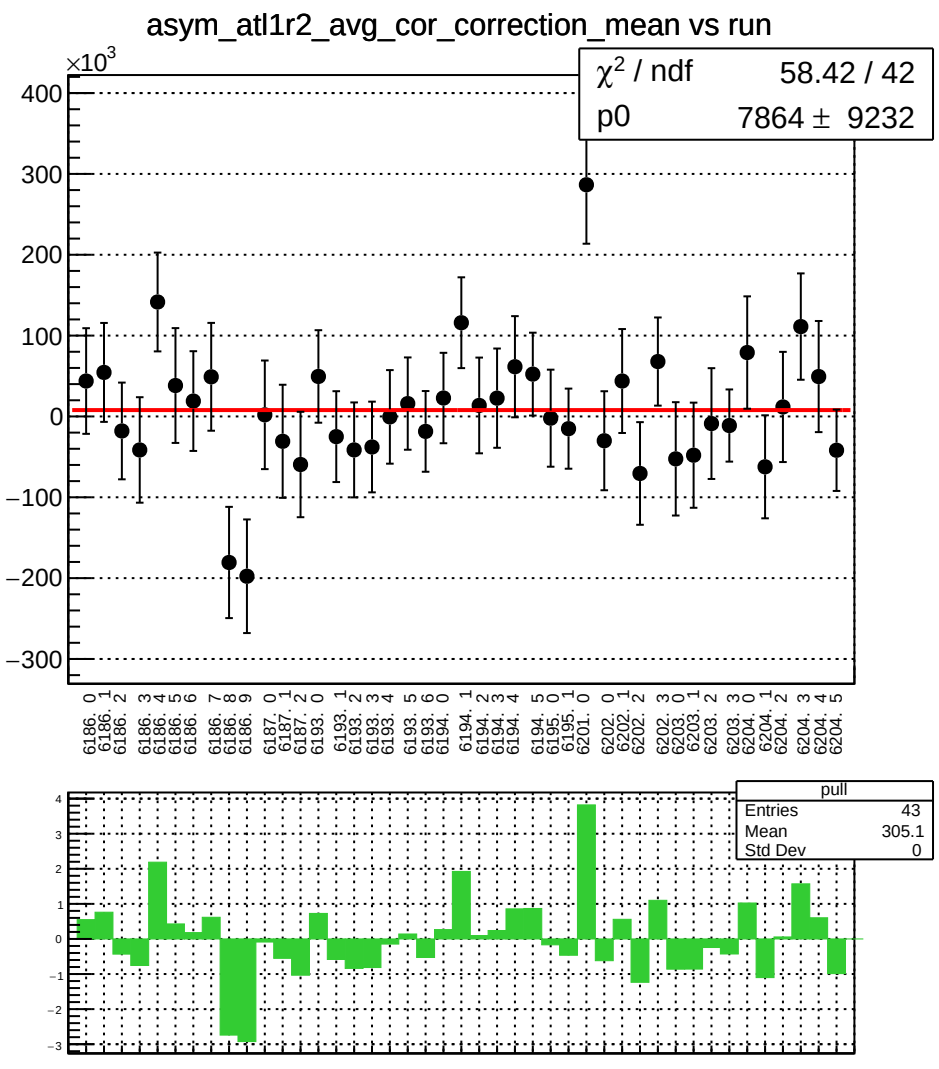

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 268.5 / 42
p0 1761 ± 1.915
1840
1820
1800
1780
1760
1740
1720
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

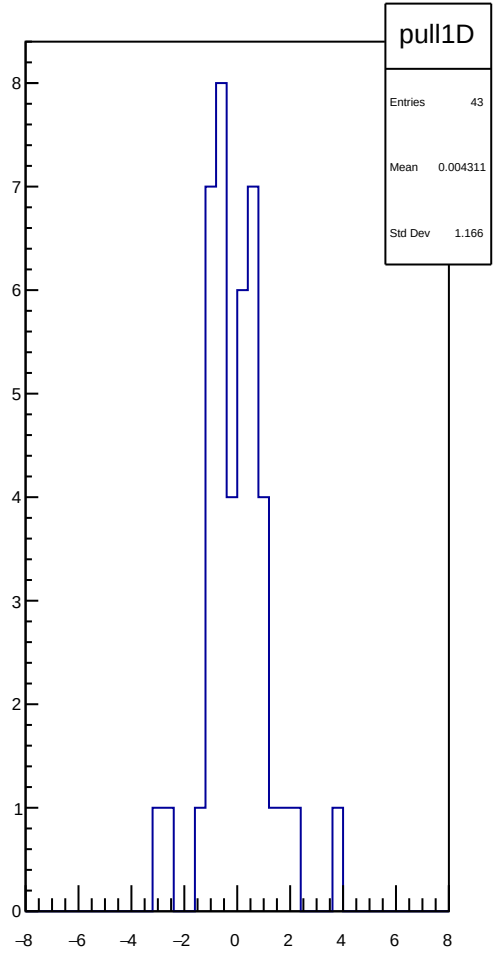

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 58.42 / 42
p0 7864 ± 9232
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 304.7
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.004317
Std Dev 1.166
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

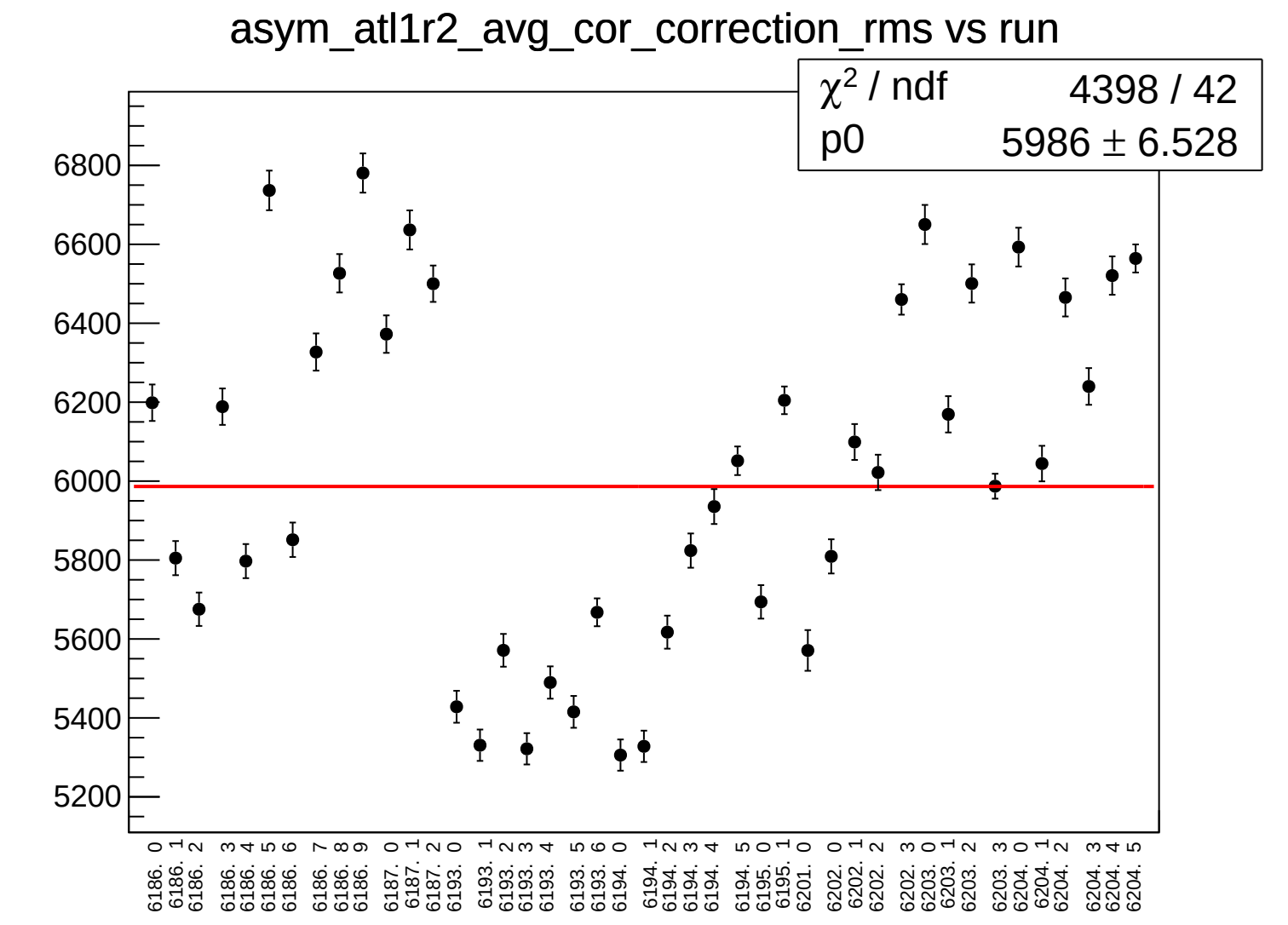

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 4398 / 42
p0 5986 ± 6.528
6800
6600
6400
6200
6000
5800
5600
5400
5200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

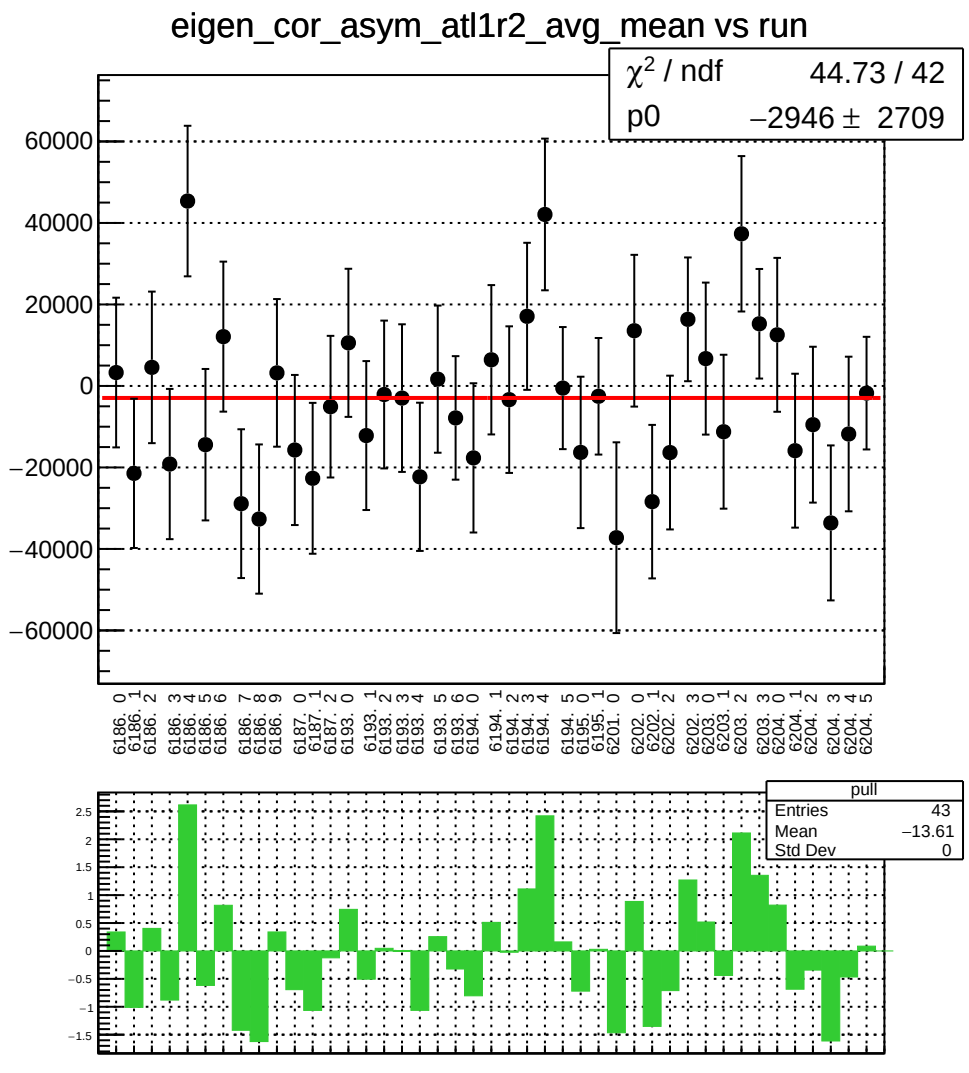

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 44.73 / 42
p0 −2946 ± 2709
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −13.61
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02564
Std Dev 1.02
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

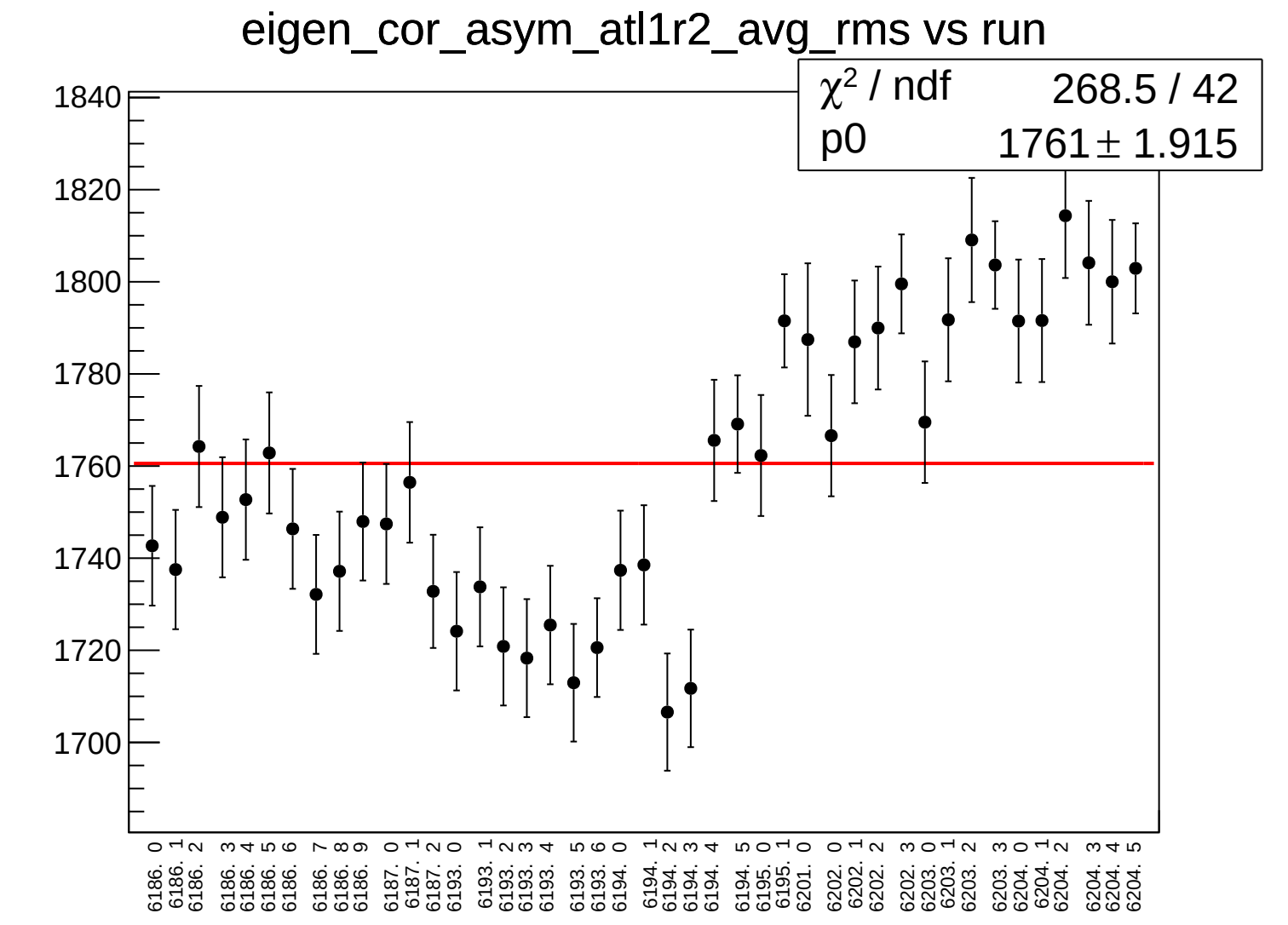

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 268.5 / 42
p0 1761 ± 1.915
1840
1820
1800
1780
1760
1740
1720
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

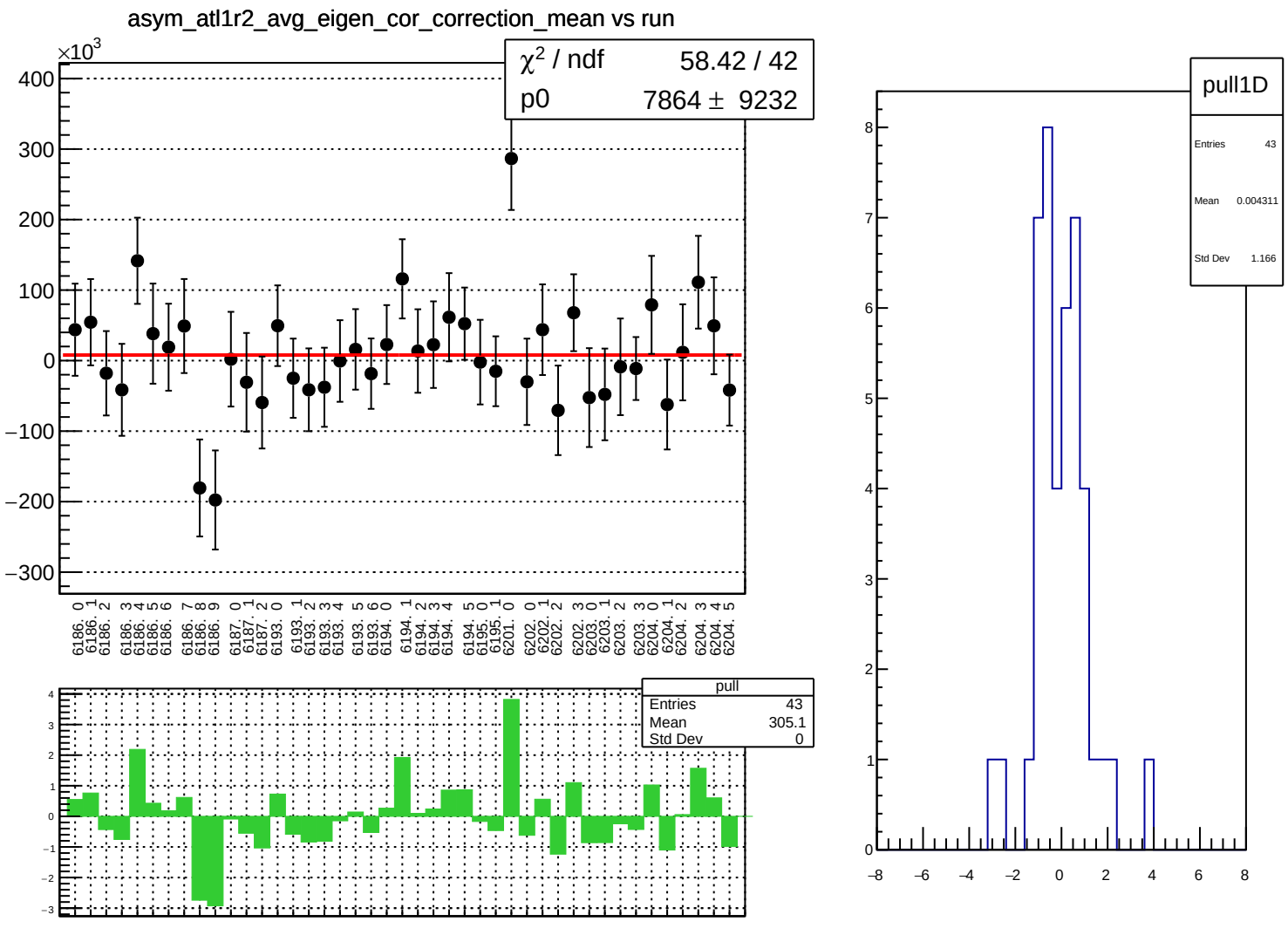

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 58.42 / 42
p0 7864 ± 9232
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 305.1
Std Dev 0
4
3
2
1
0
−1
−2
−3

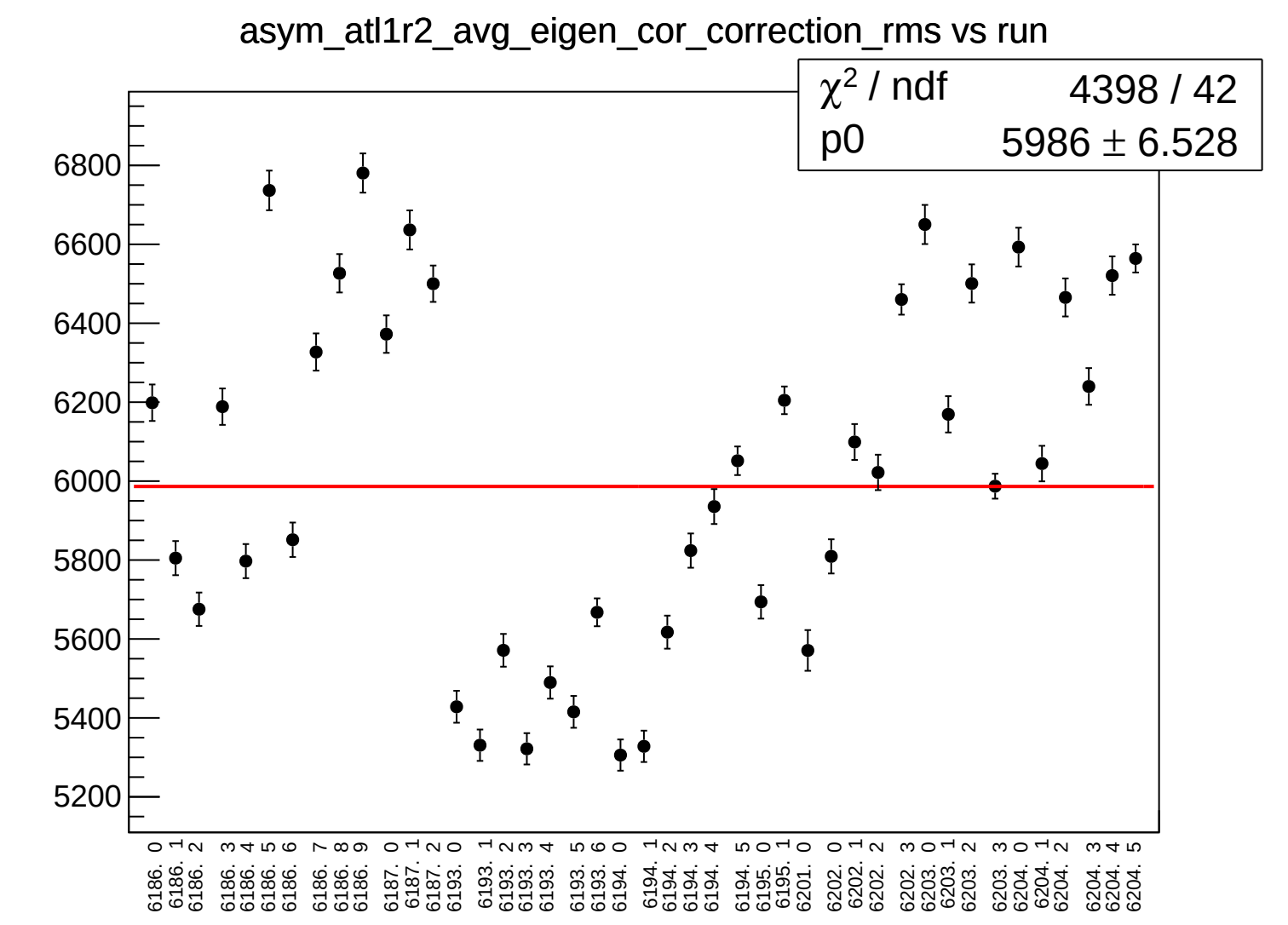

pull1D
Entries 43
Mean 0.004311
Std Dev 1.166
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

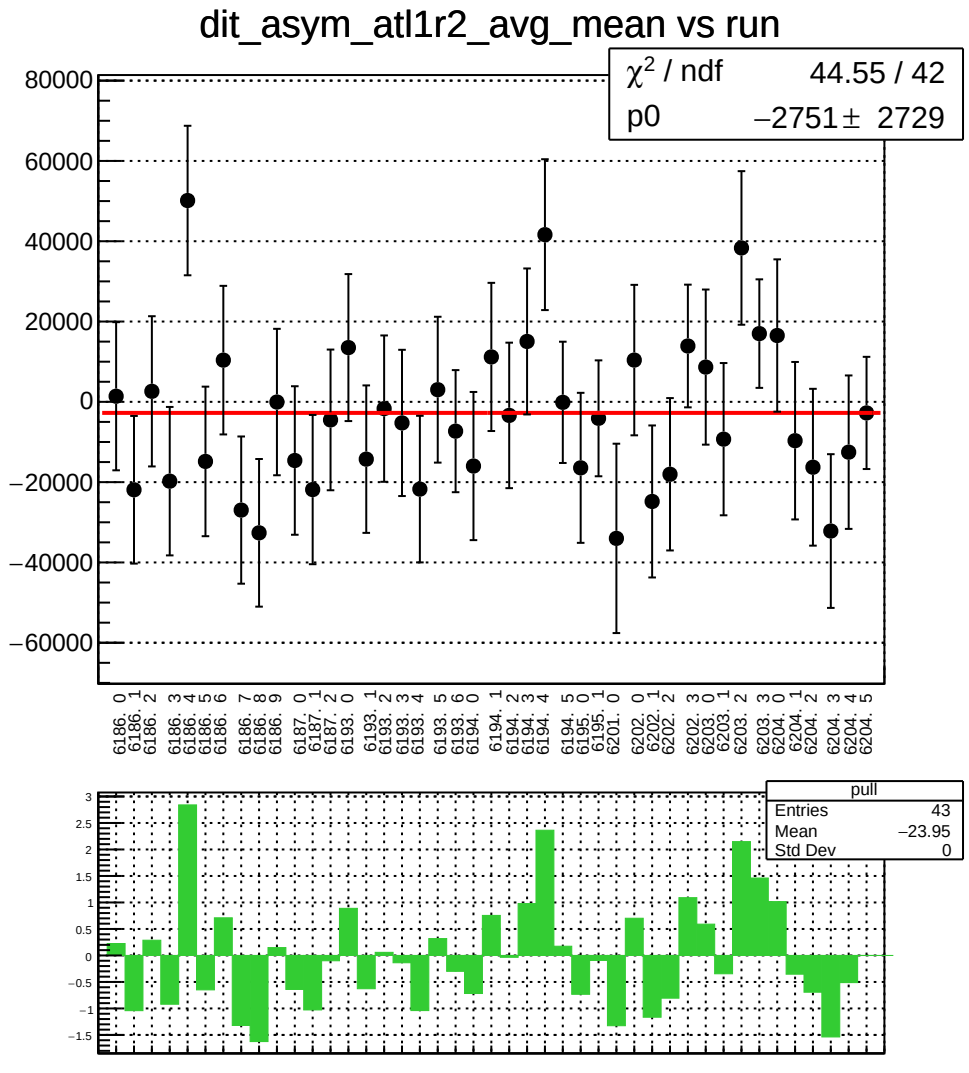

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 4398 / 42
p0 5986 ± 6.528
6800
6600
6400
6200
6000
5800
5600
5400
5200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

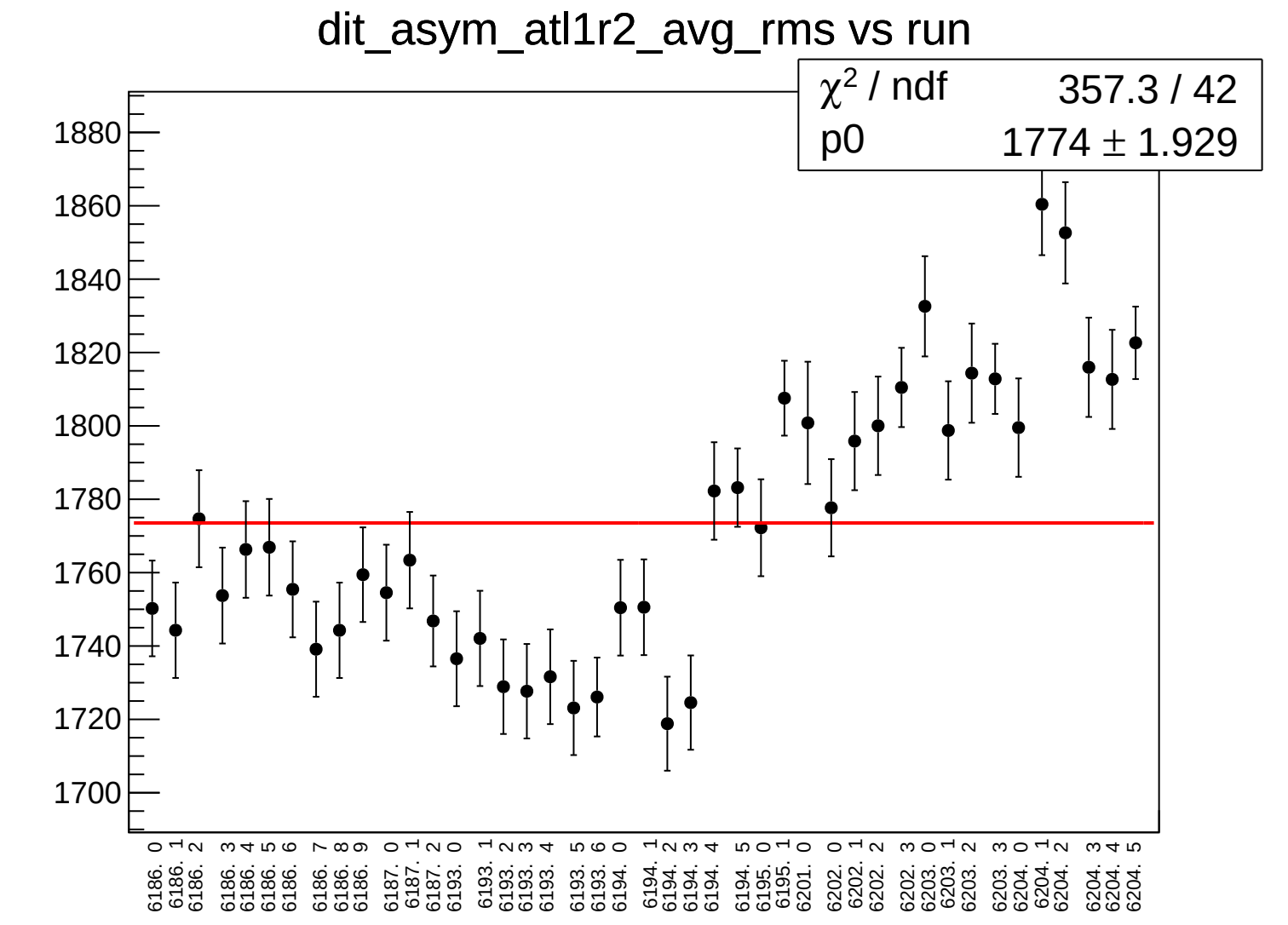

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 44.73 / 42
p0 −2946 ± 2709
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −13.61
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02564
Std Dev 1.02
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

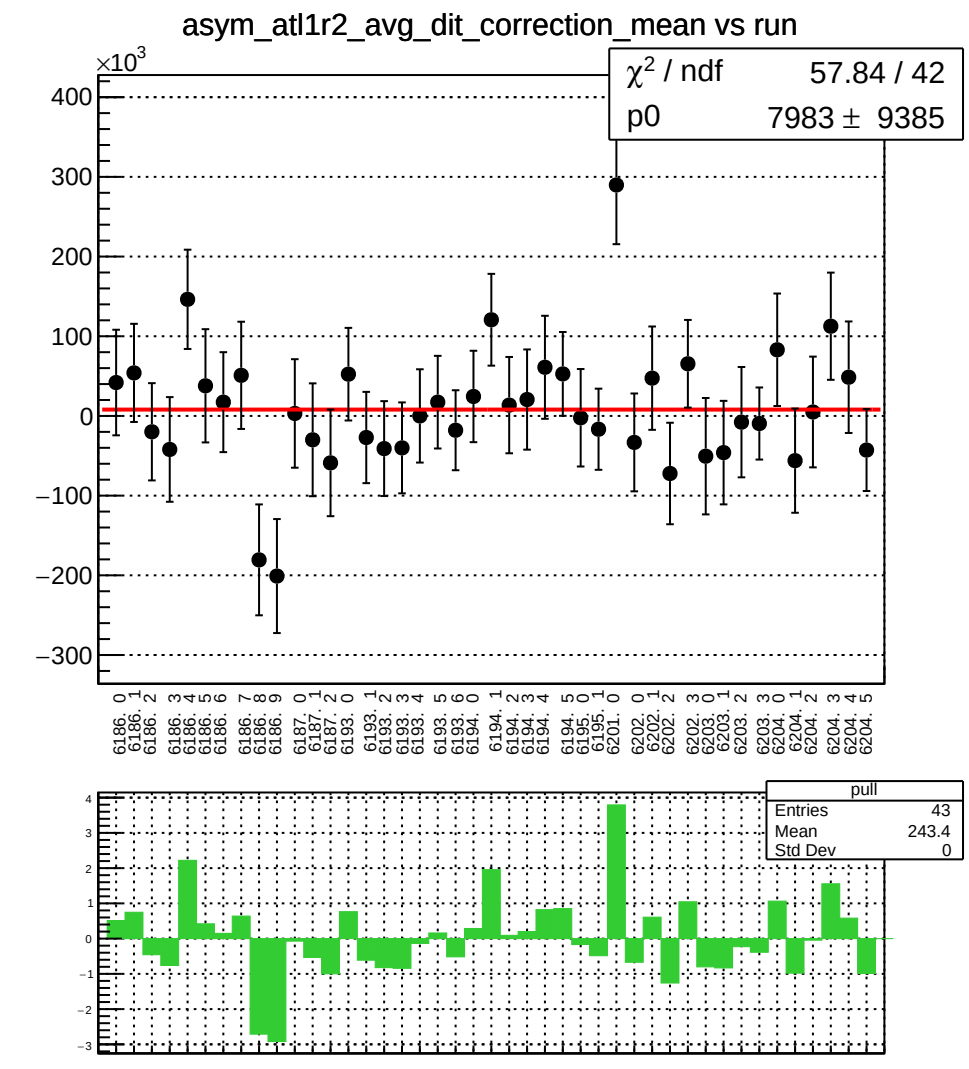

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 268.5 / 42
p0 1761 ± 1.915
1840
1820
1800
1780
1760
1740
1720
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

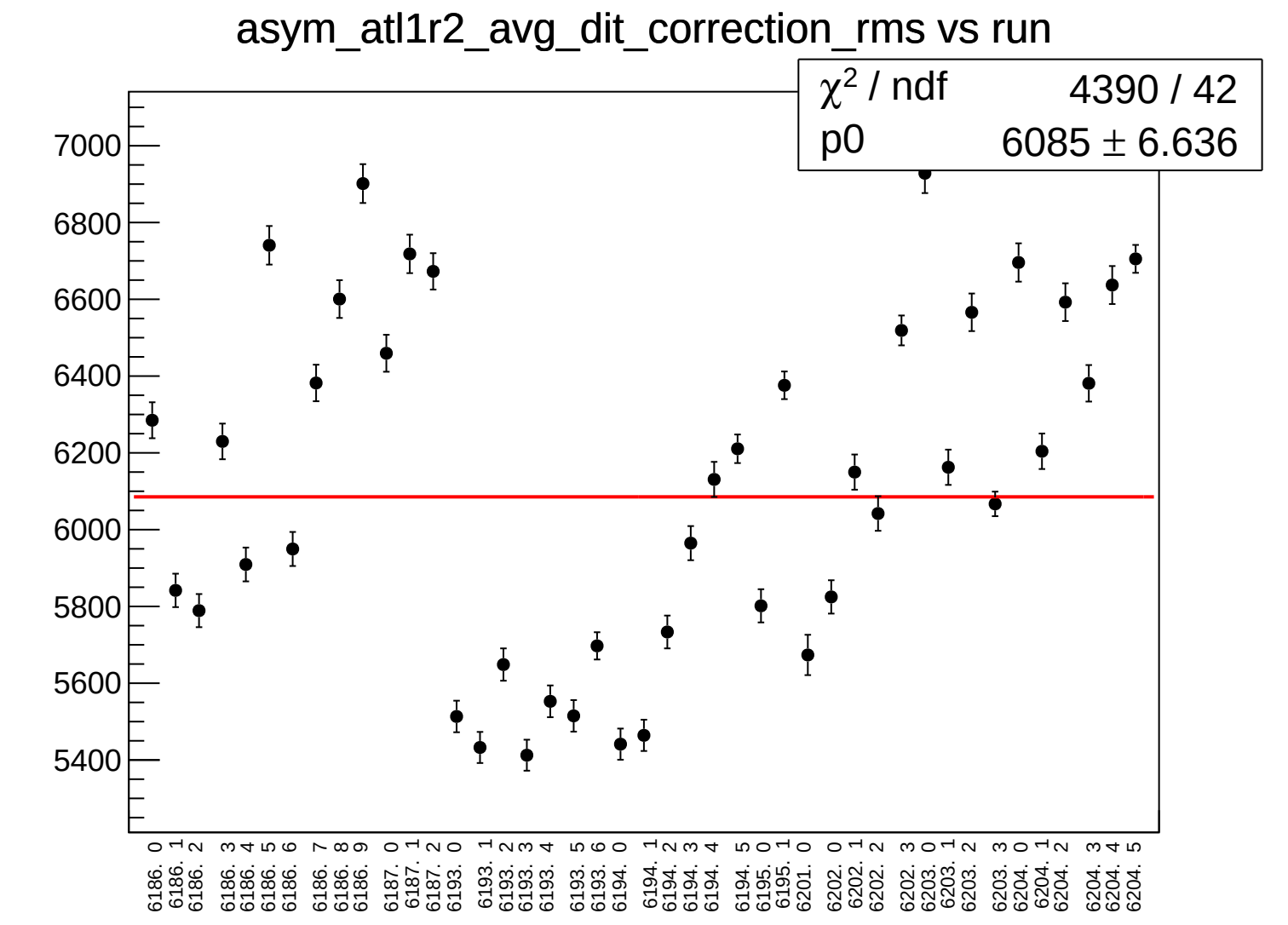

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 58.42 / 42
p0 7864 ± 9232
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 305.1
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.004311
Std Dev 1.166
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

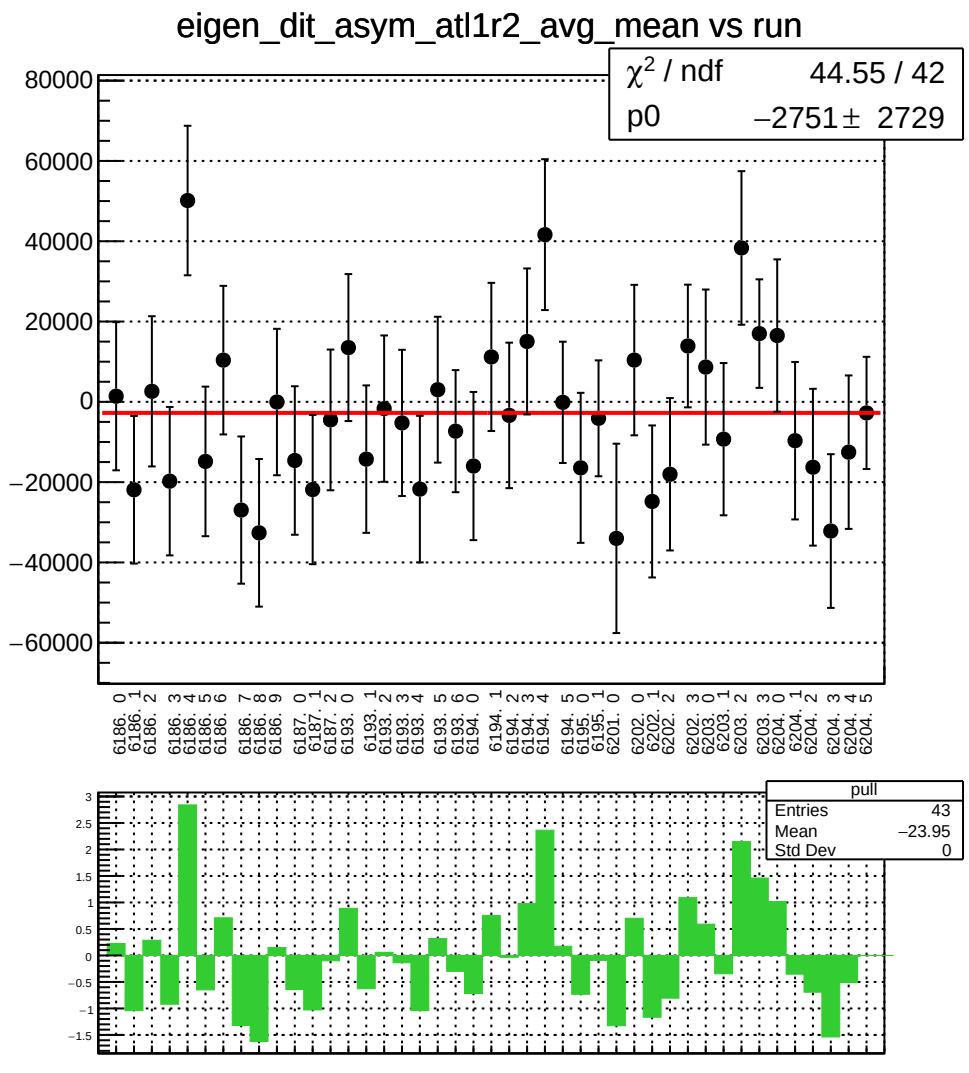

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4398 / 42
p0 5986 ± 6.528
6800
6600
6400
6200
6000
5800
5600
5400
5200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

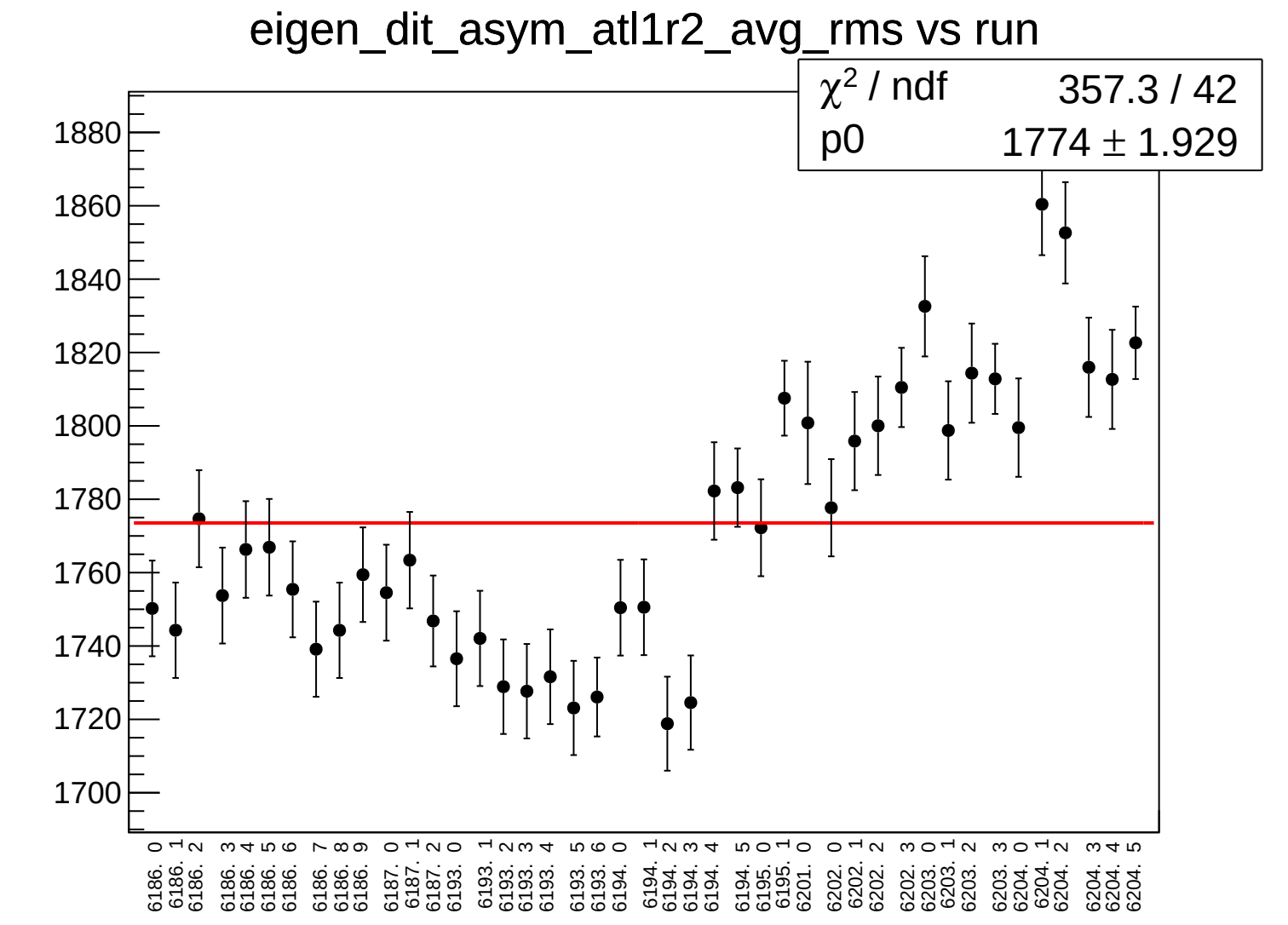

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 44.55 / 42
p0 −2751 ± 2729
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −23.95
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02303
Std Dev 1.018
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

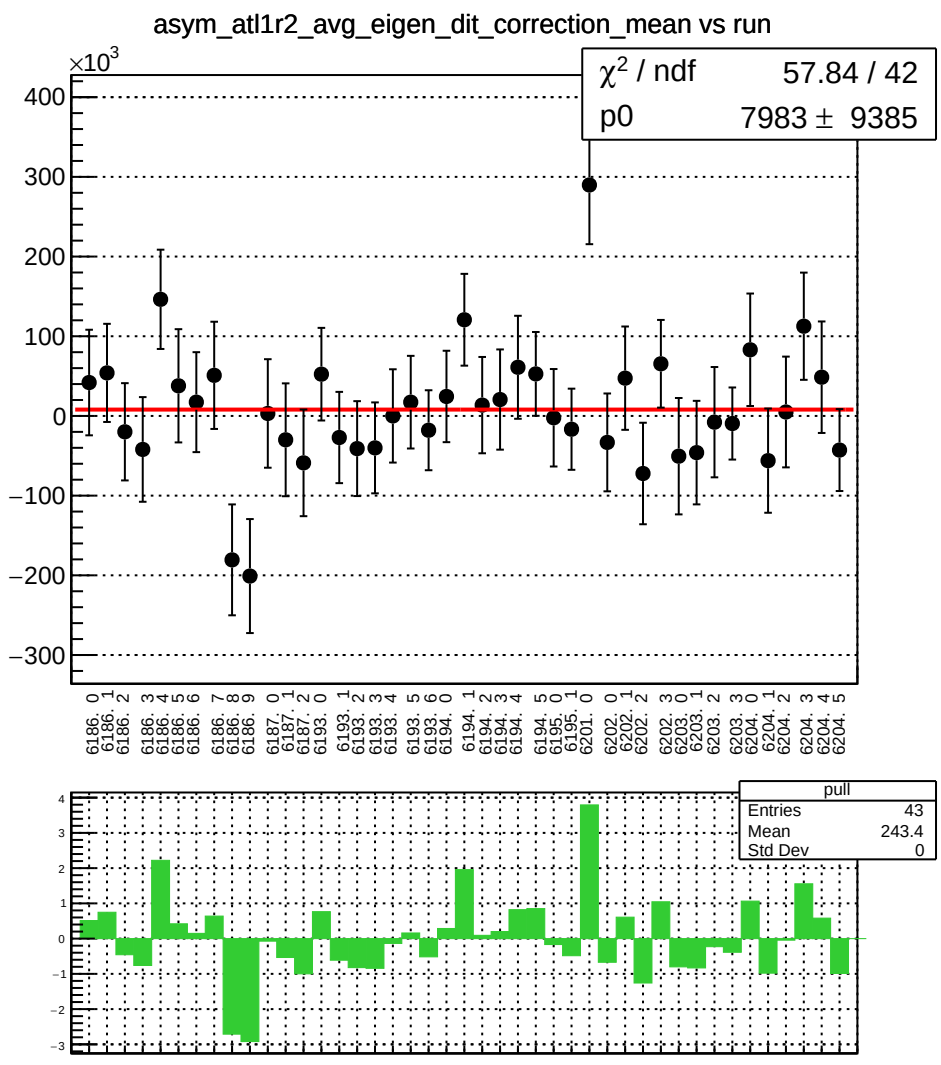

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 357.3 / 42
p0 1774 ± 1.929
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

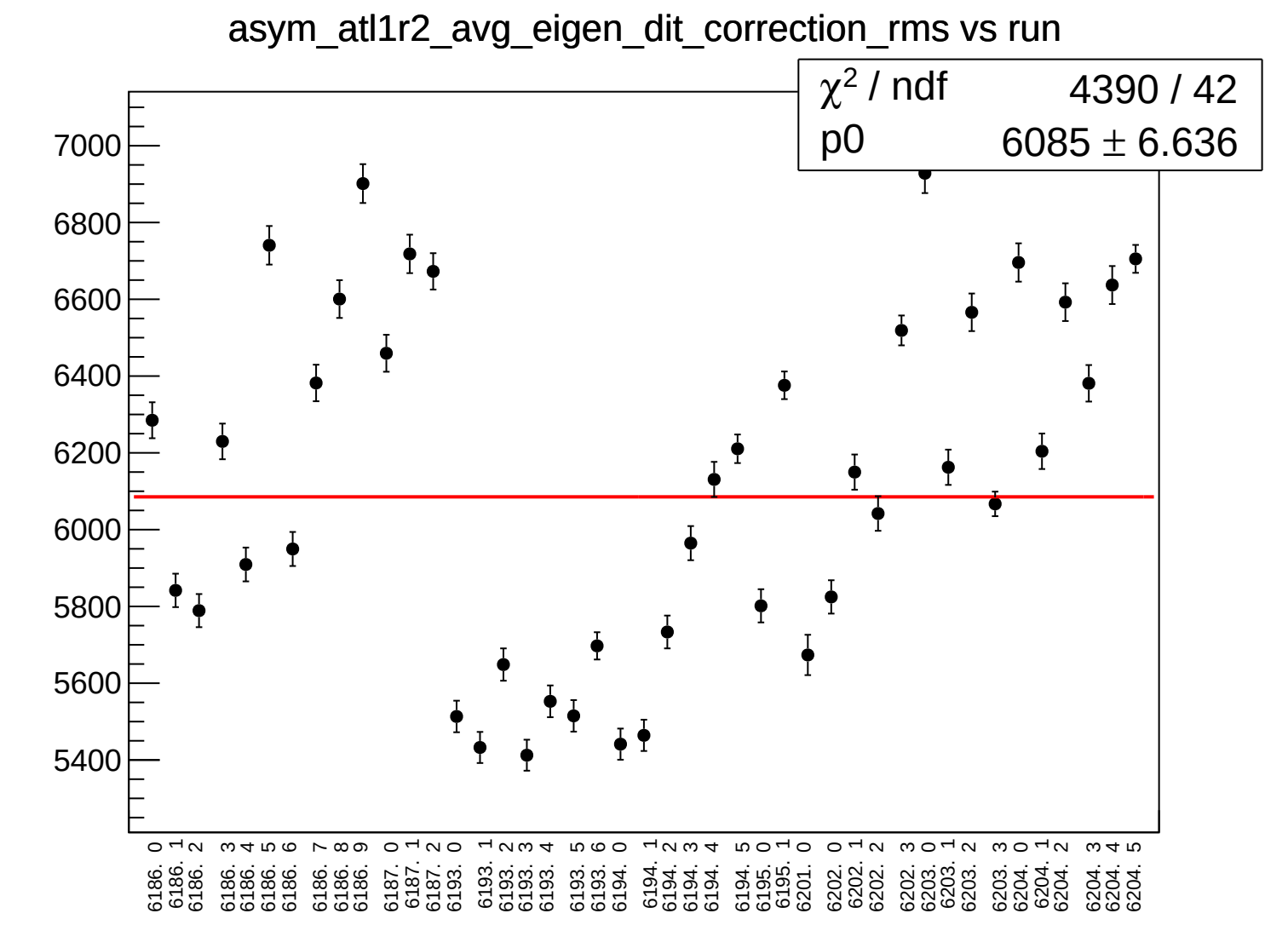

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 57.84 / 42
p0 7983 ± 9385
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 243.4
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.005585
Std Dev 1.16
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

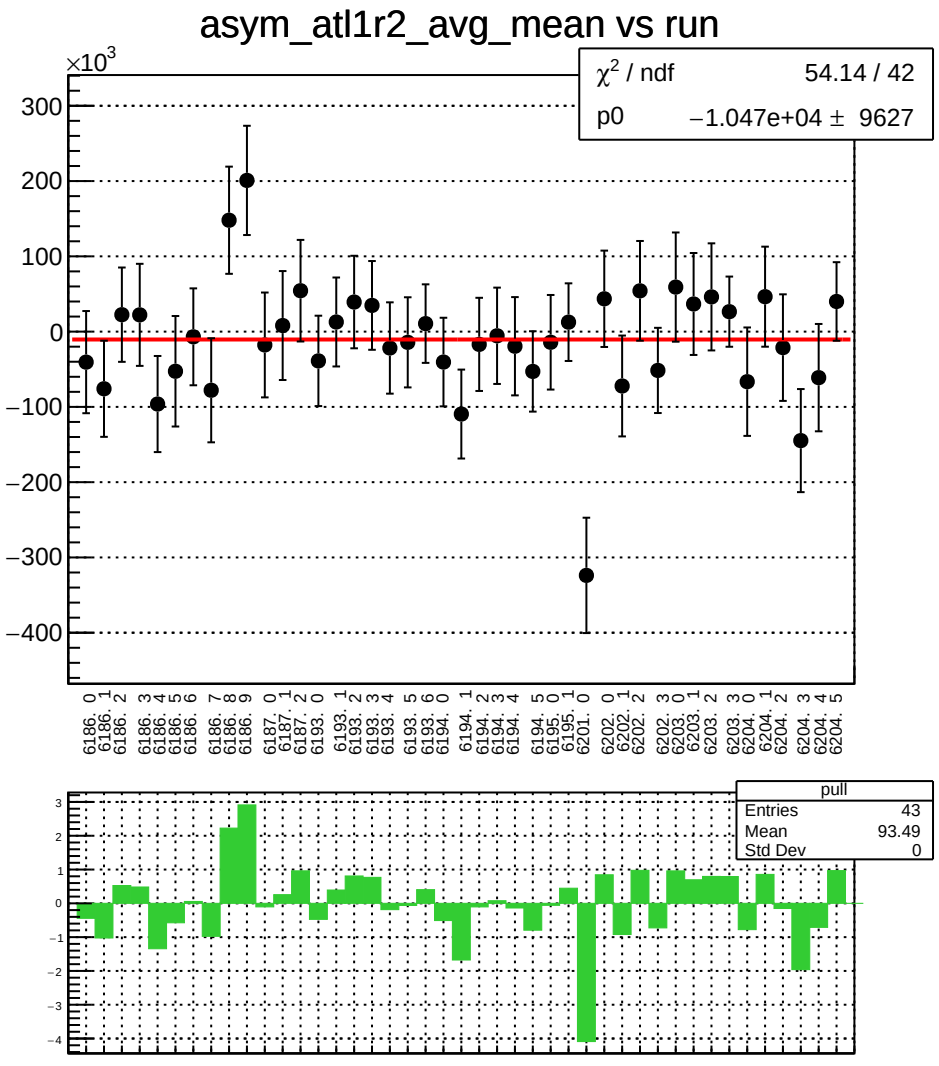

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 4390 / 42
p0 6085 ± 6.636
7000
6800
6600
6400
6200
6000
5800
5600
5400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

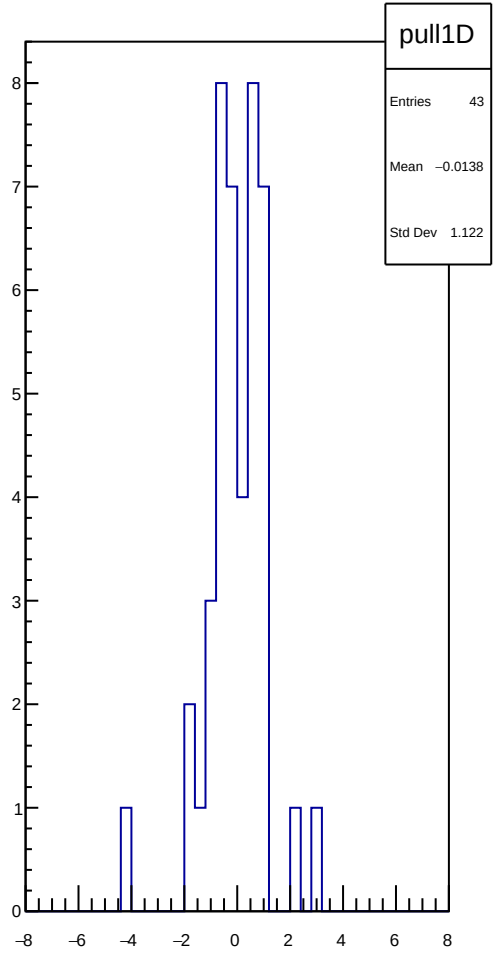

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 44.55 / 42
p0 −2751 ± 2729
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −23.95
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02304
Std Dev 1.018
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

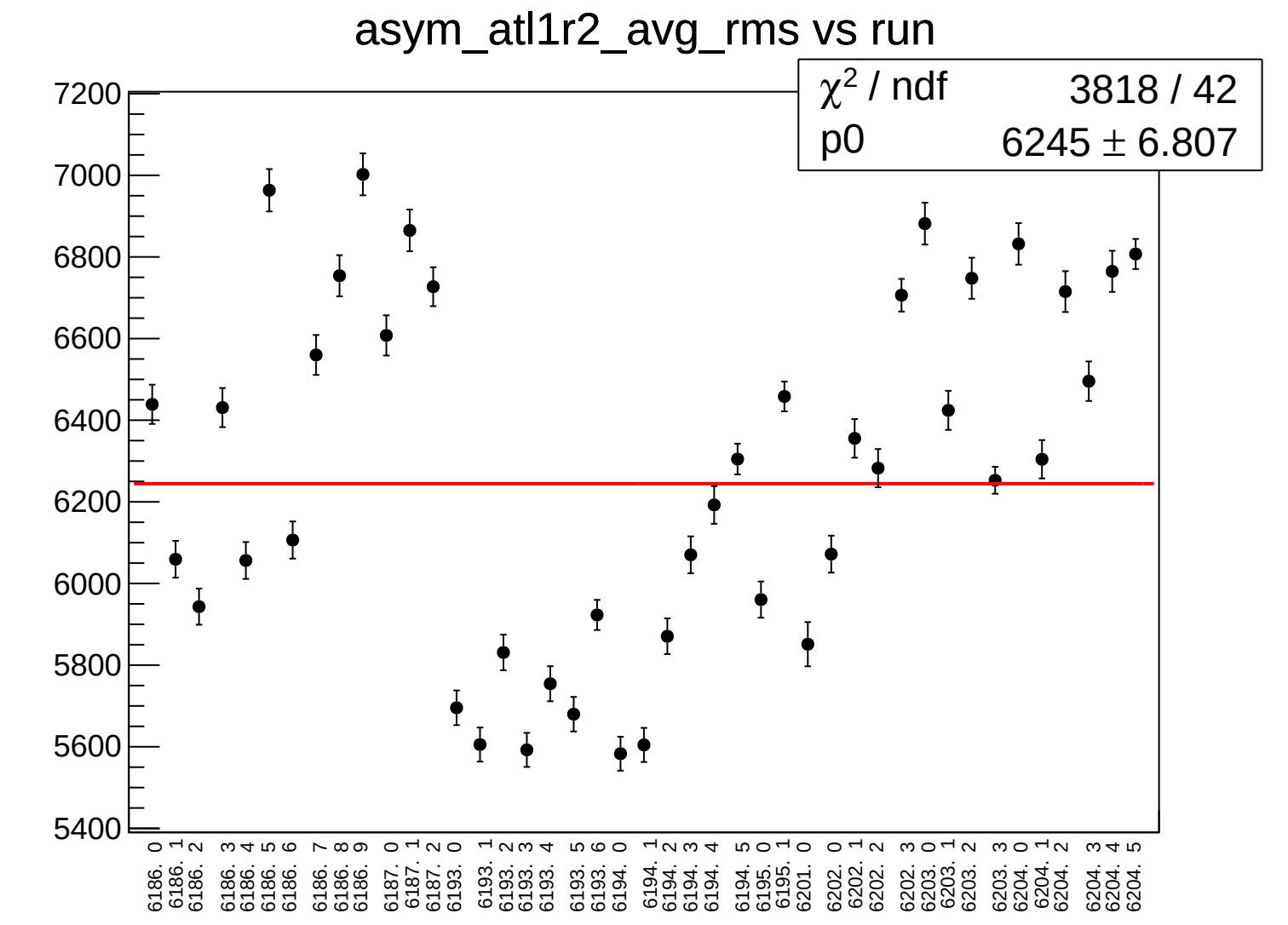

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 357.3 / 42
p0 1774 ± 1.929
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

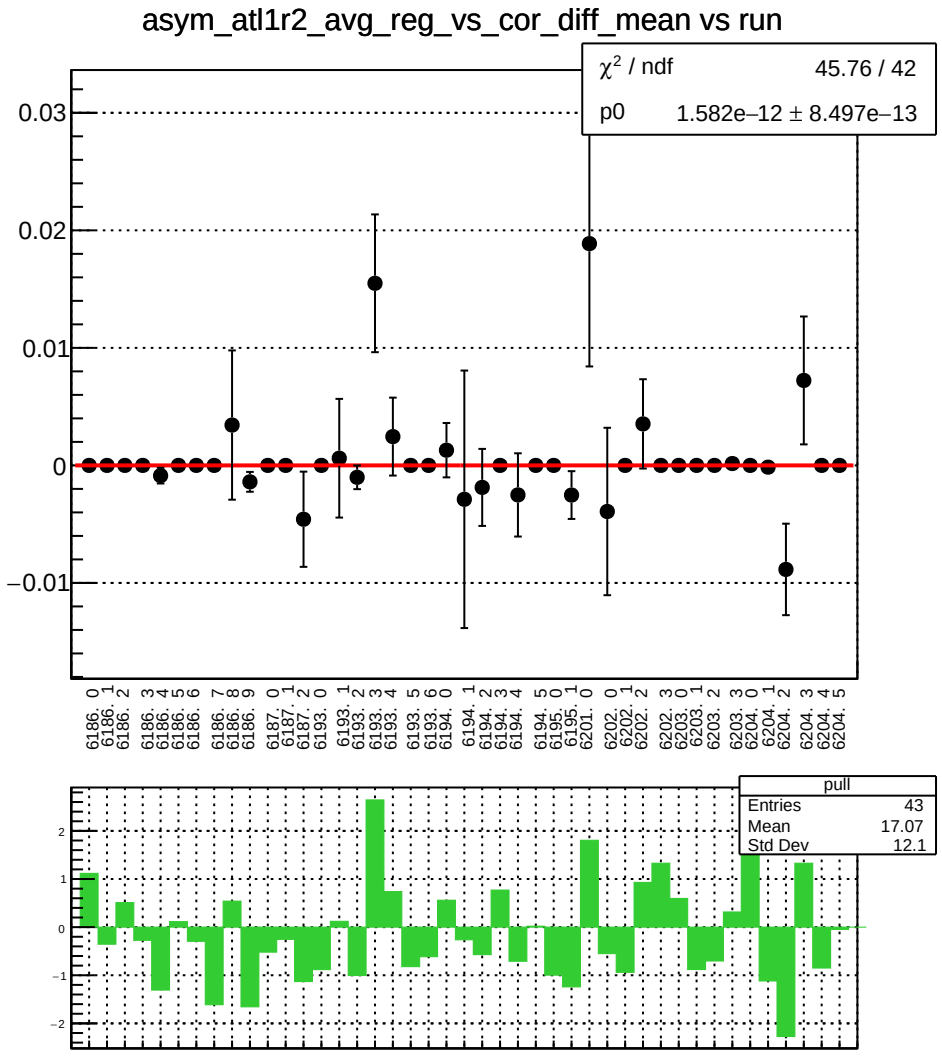

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 57.84 / 42
p0 7983 ± 9385
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 243.4
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.005585
Std Dev 1.16
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

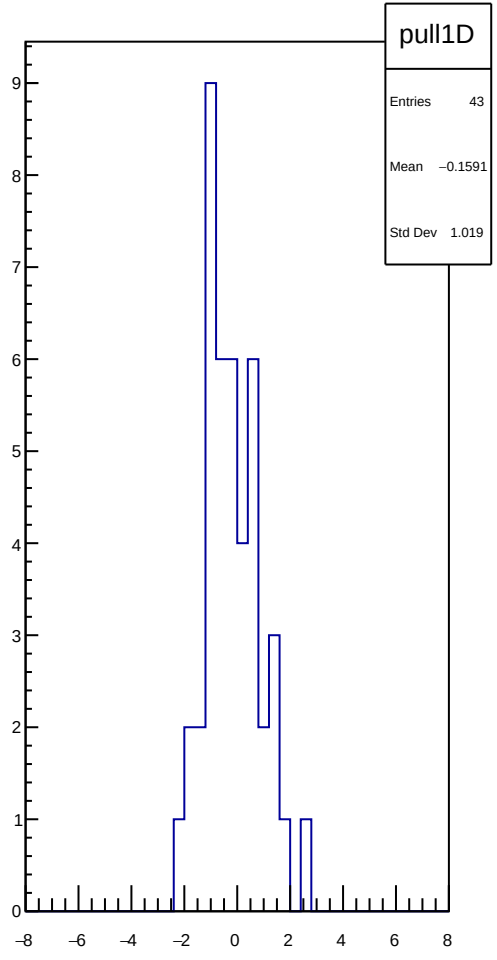

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4390 / 42
p0 6085 ± 6.636
7000
6800
6600
6400
6200
6000
5800
5600
5400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

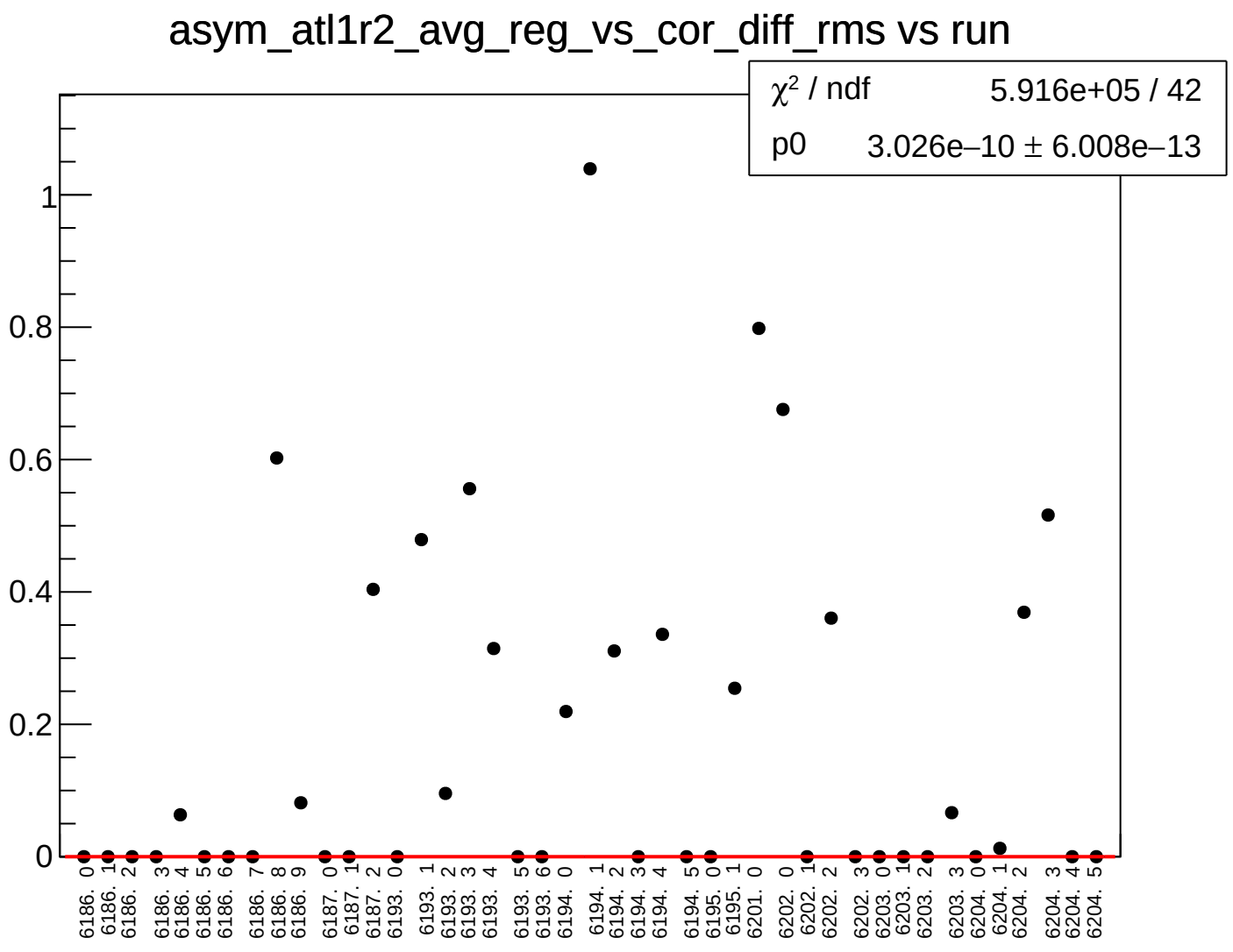

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 54.14 / 42
p0 −1.047e+04 ± 9627
300
200
100
0
−100
−200
−300
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 93.49
Std Dev 0
3
2
1
0
−1
−2
−3
−4

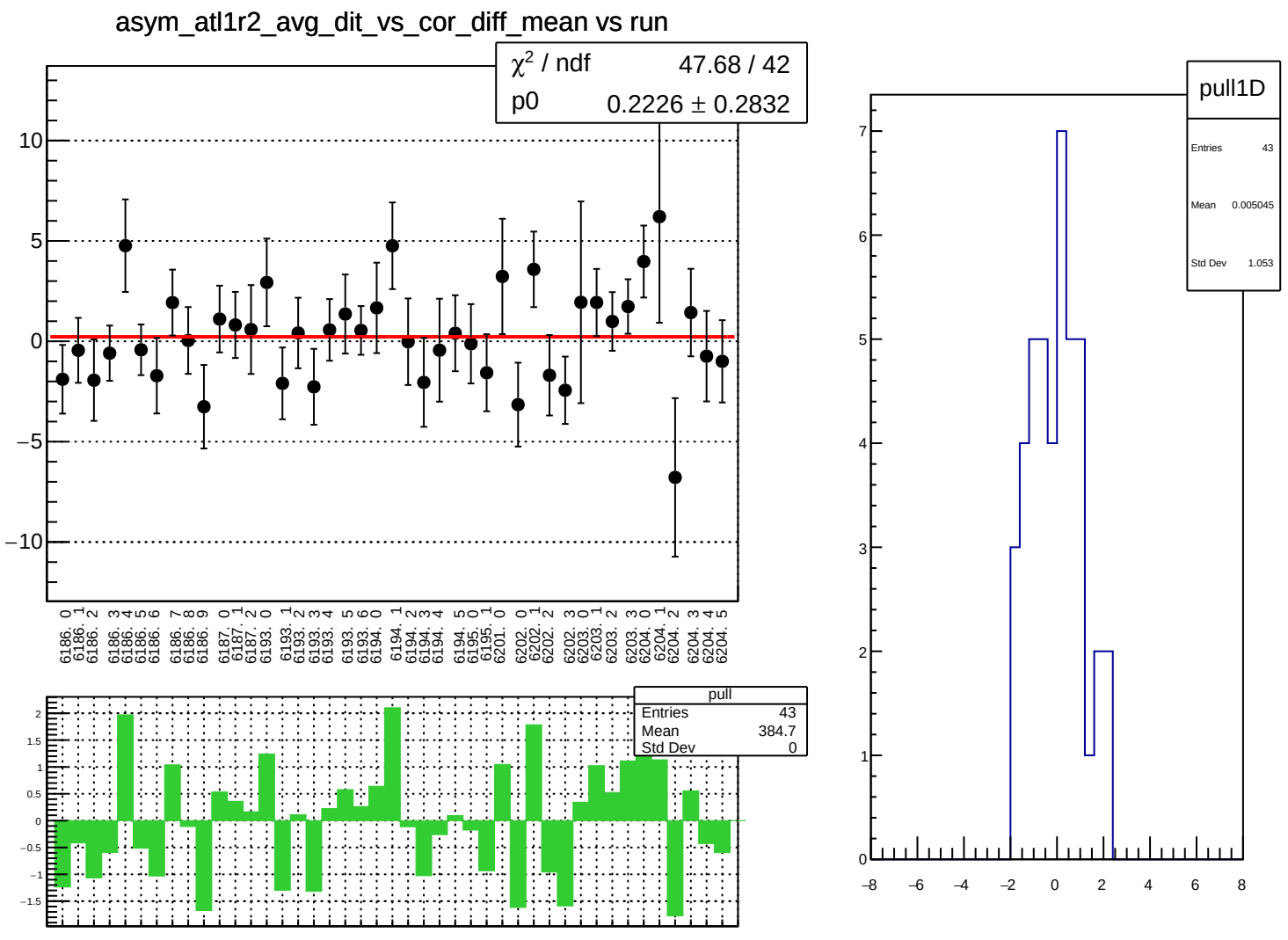

pull1D
Entries 43
Mean −0.0138
Std Dev 1.122
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

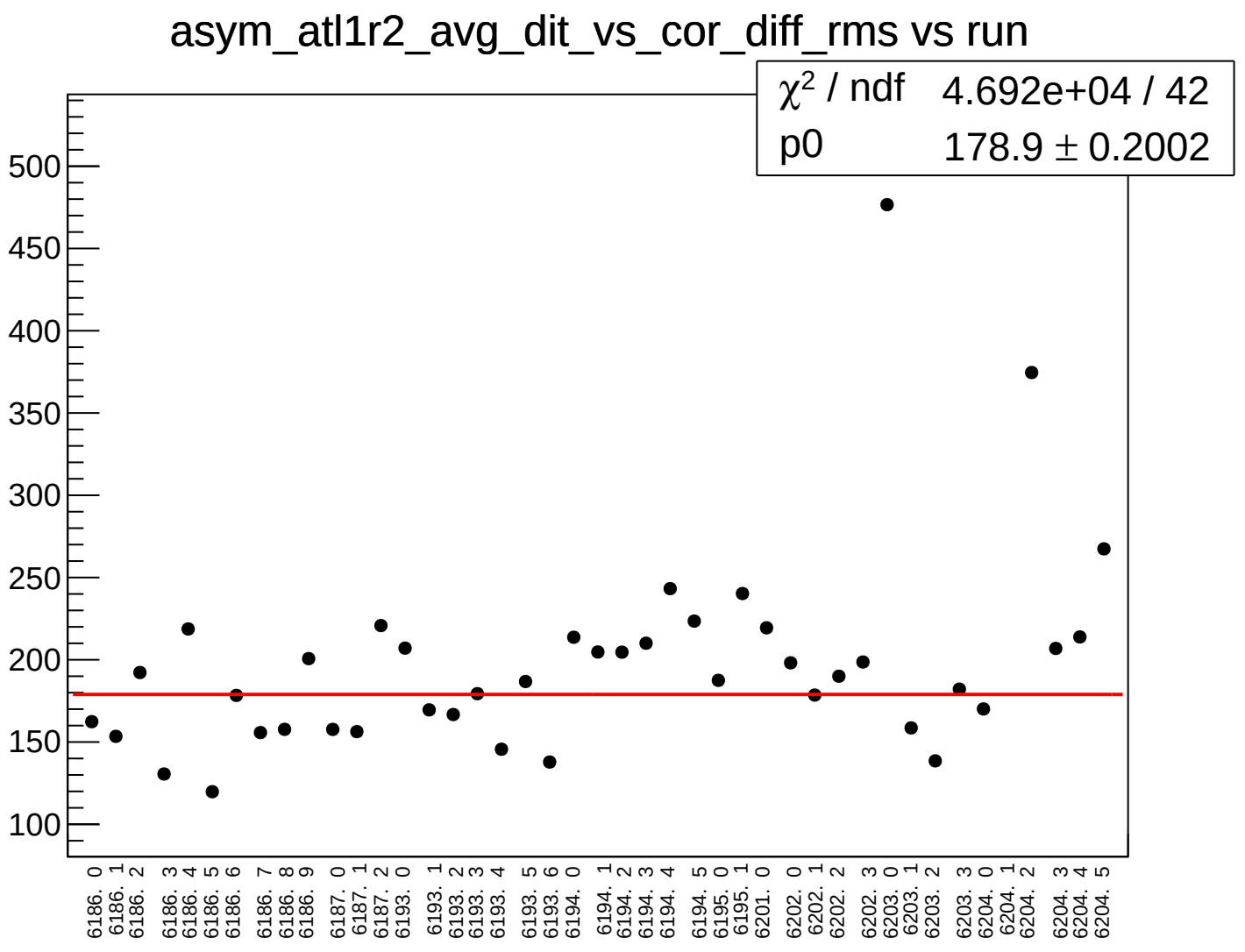

asym_atl1r2_avg_rms vs run
χ² / ndf 3818 / 42
p0 6245 ± 6.807
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 45.76 / 42
p0 1.582e−12 ± 8.497e−13
0.03
0.02
0.01
0
−0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 17.07
Std Dev 12.1
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.1591
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.916e+05 / 42
p0 3.026e−10 ± 6.008e−13
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 47.68 / 42
p0 0.2226 ± 0.2832
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 384.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.005045
Std Dev 1.053
7
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 4.692e+04 / 42
p0 178.9 ± 0.2002
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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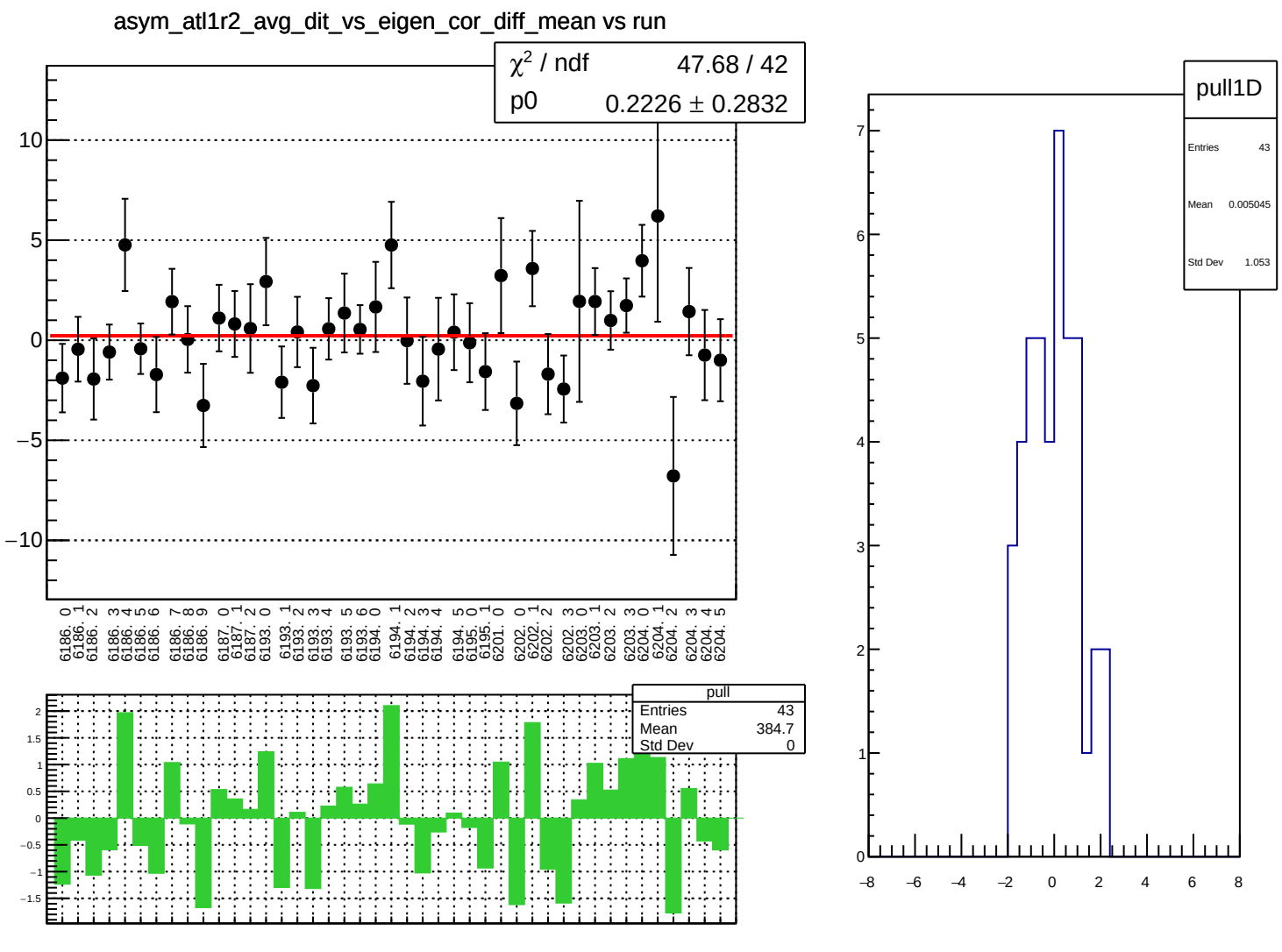
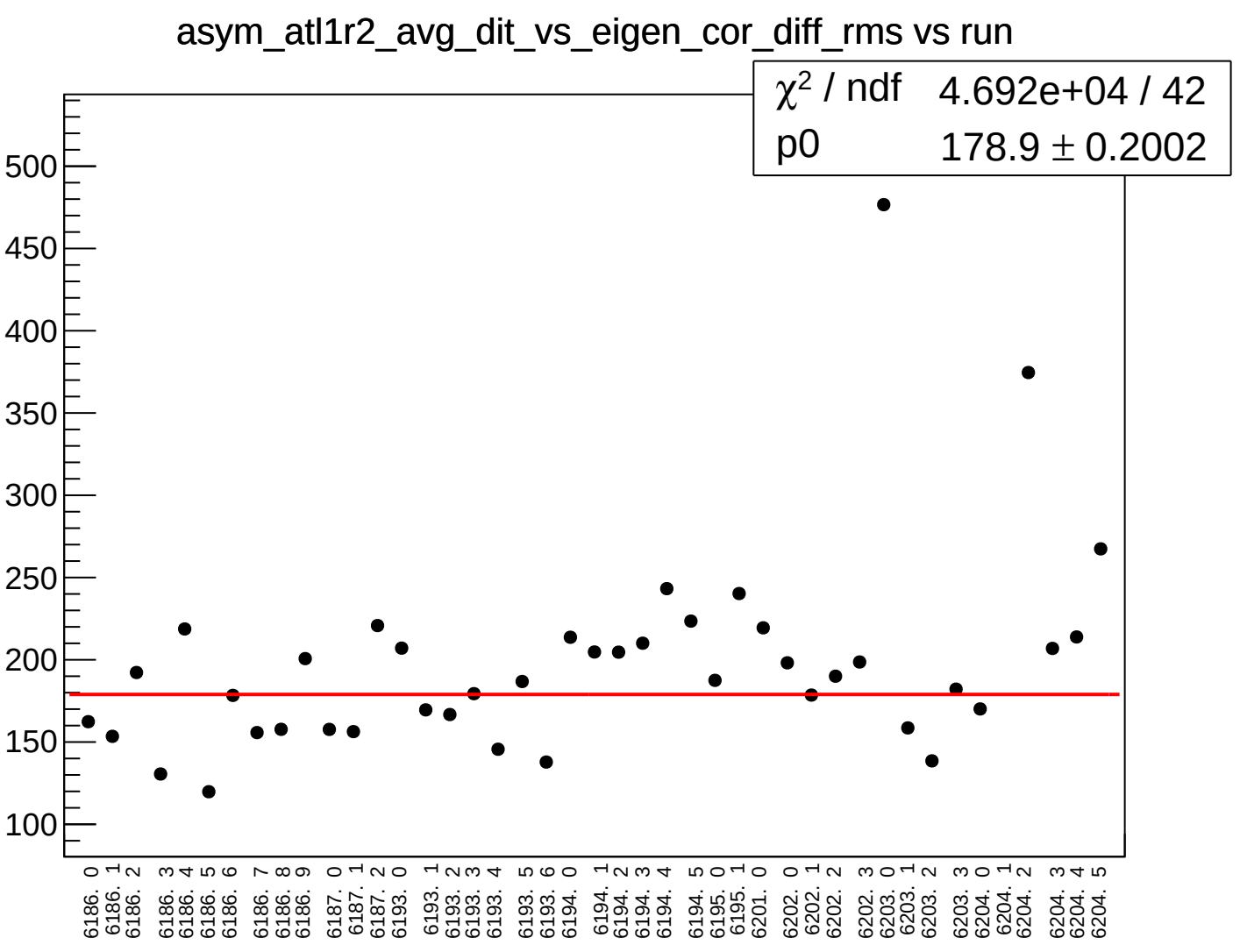
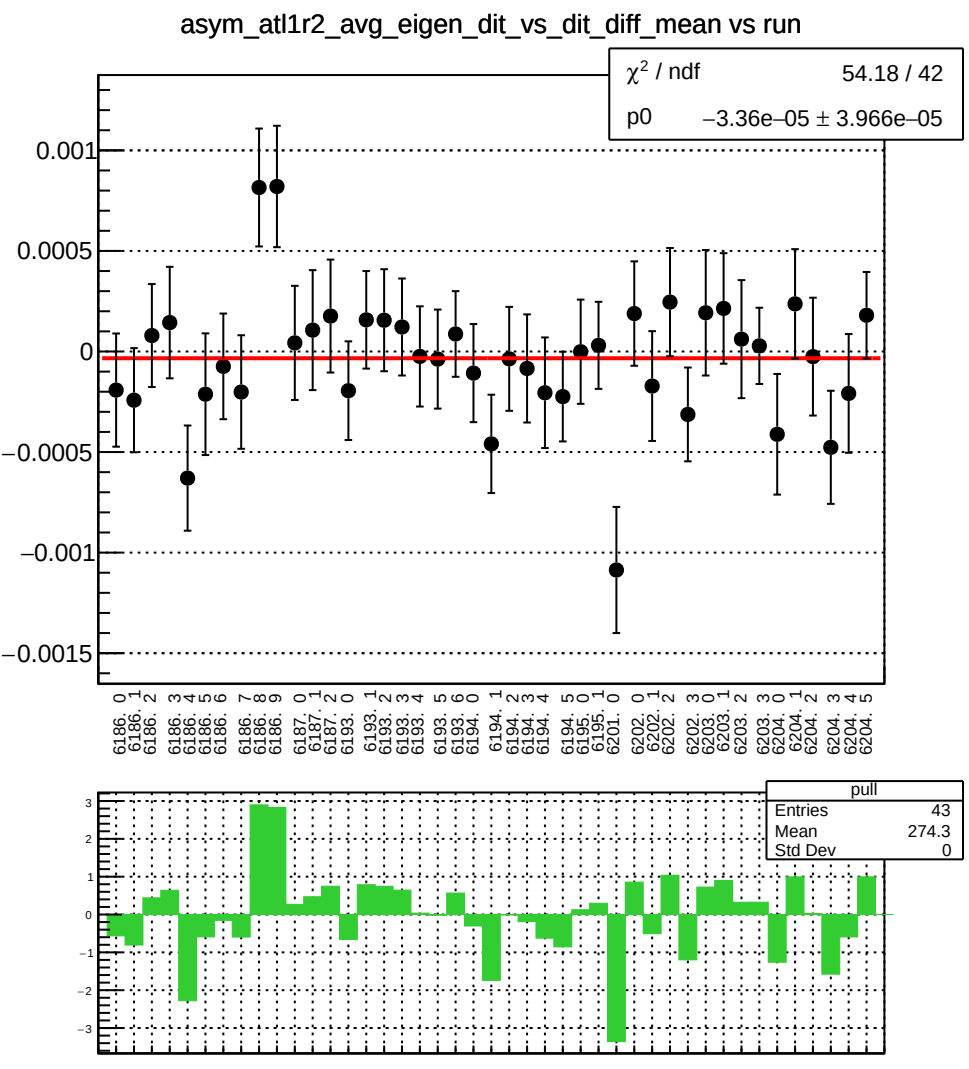
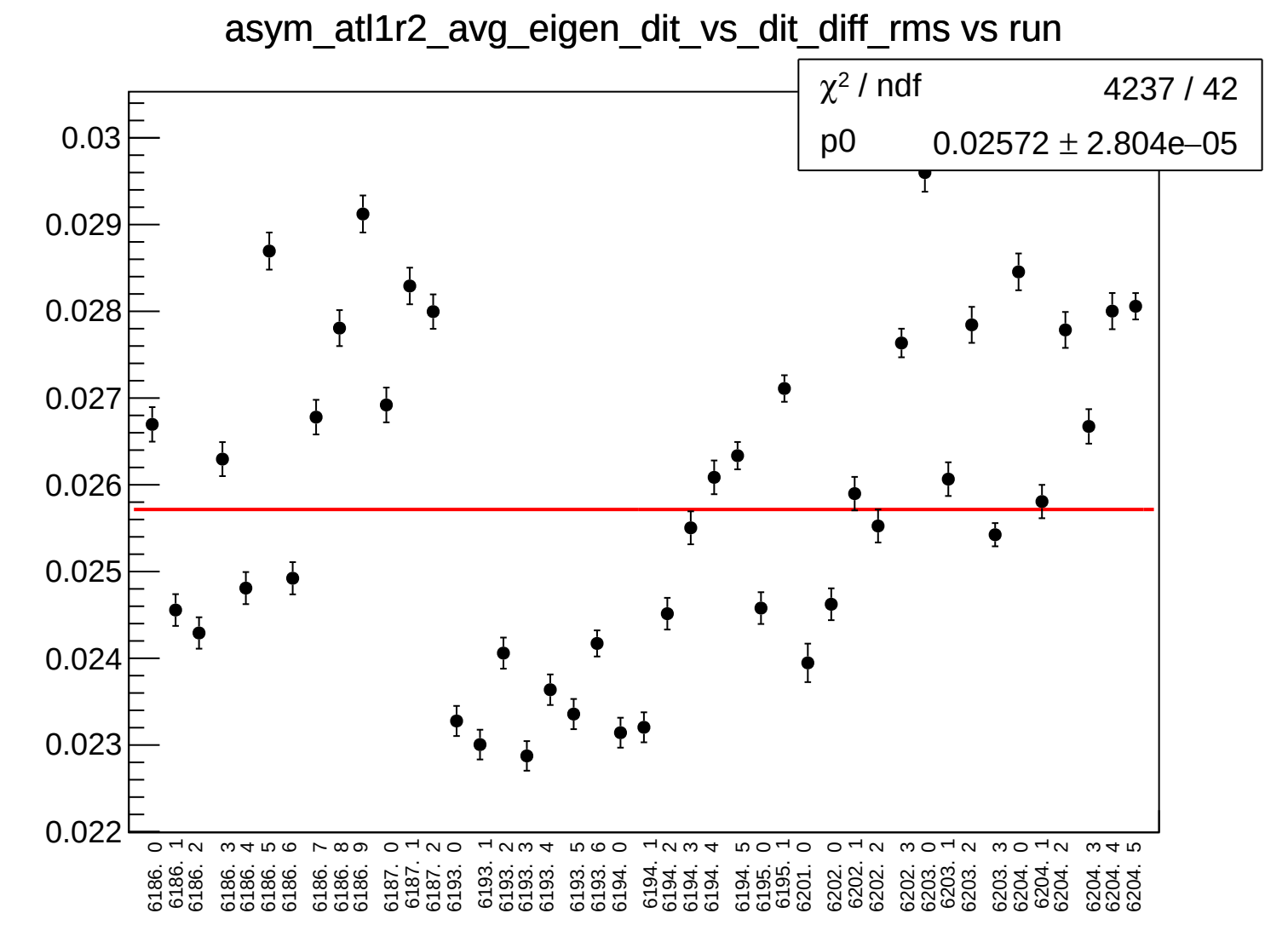
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.68 / 42
p0 0.2226 ± 0.2832
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 384.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.005045
Std Dev 1.053
7
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 4.692e+04 / 42
p0 178.9 ± 0.2002
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 54.18 / 42
p0 −3.36e−05 ± 3.966e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 274.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.004518
Std Dev 1.123
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4237 / 42
p0 0.02572 ± 2.804e−05
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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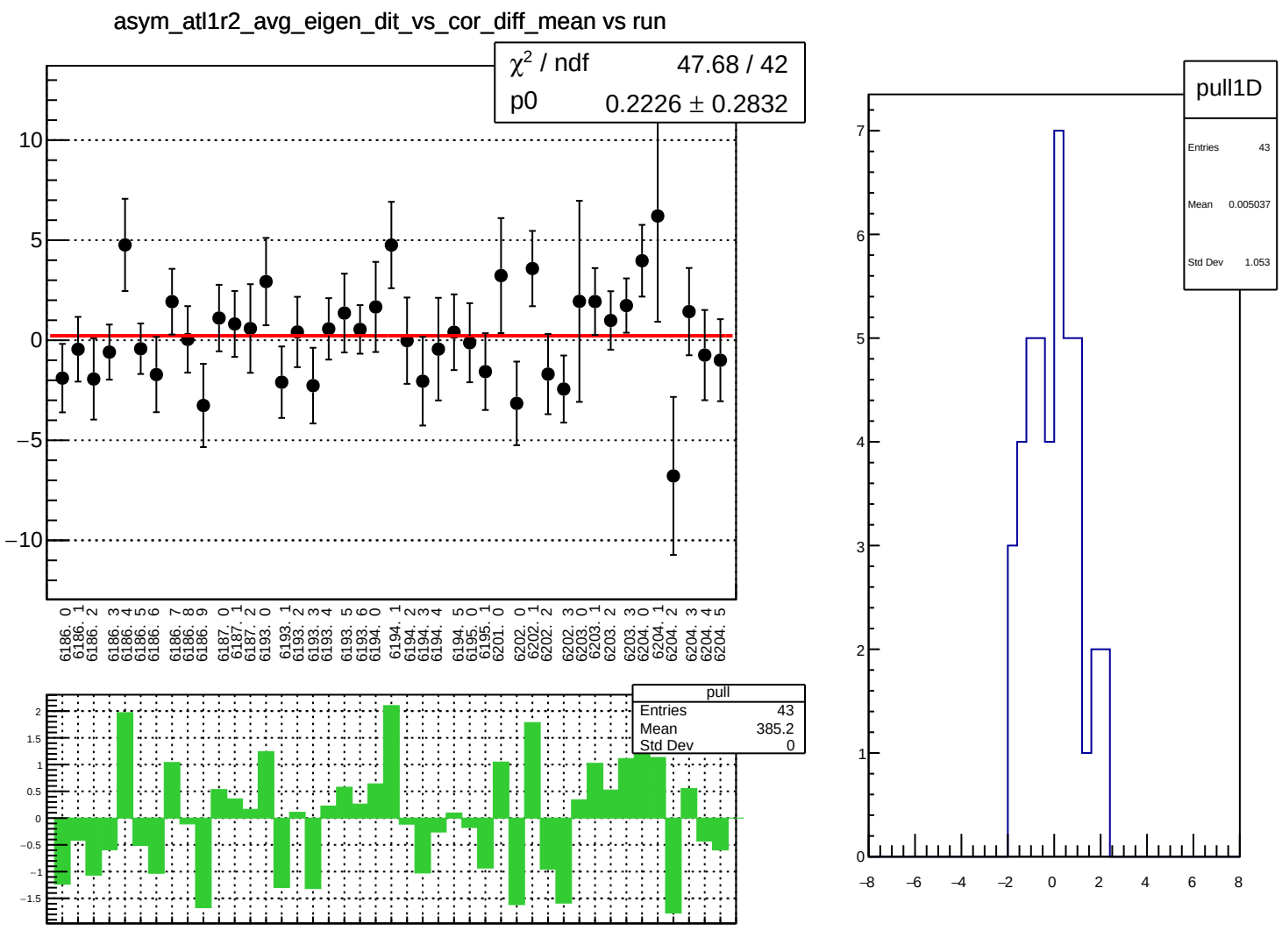
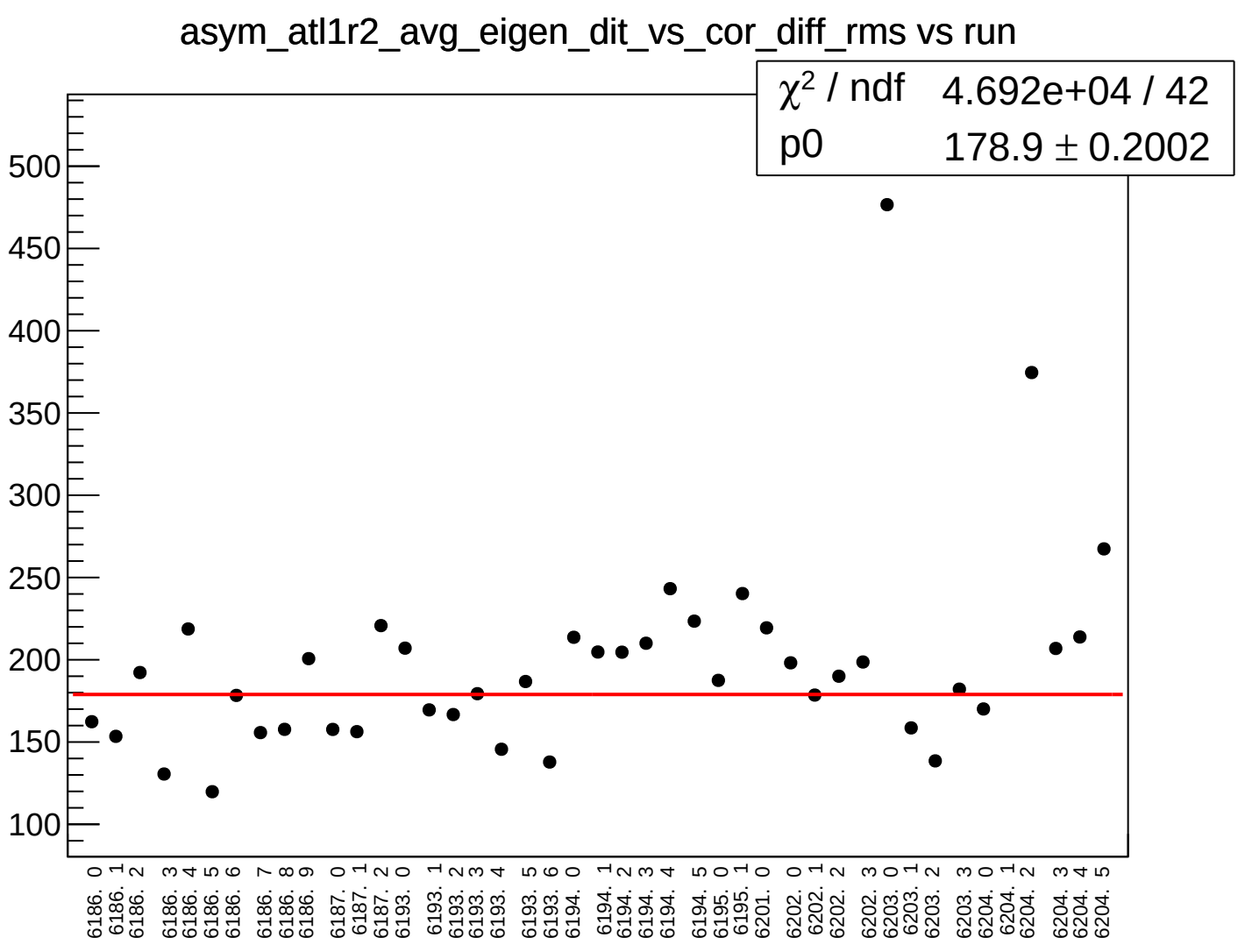
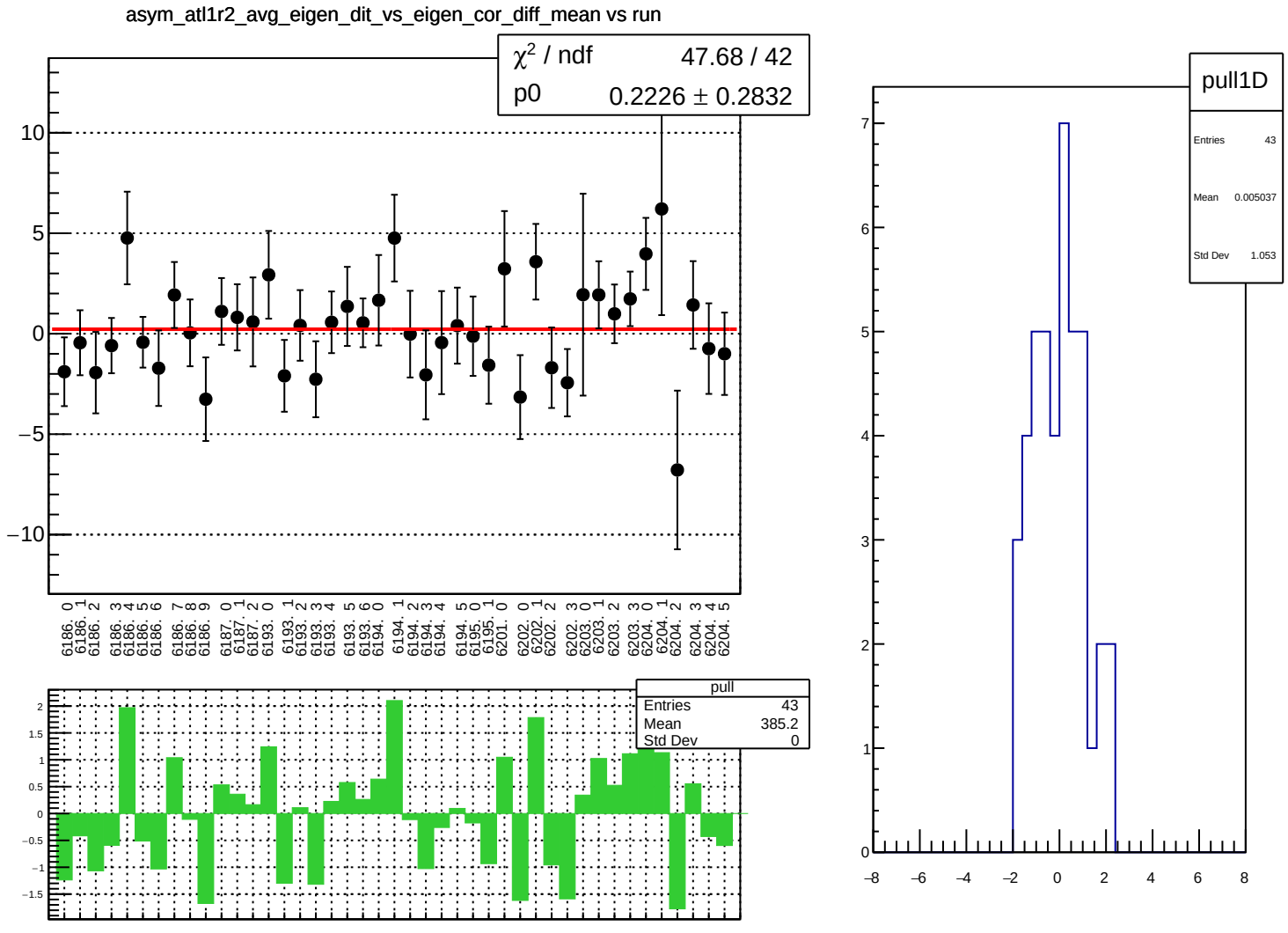
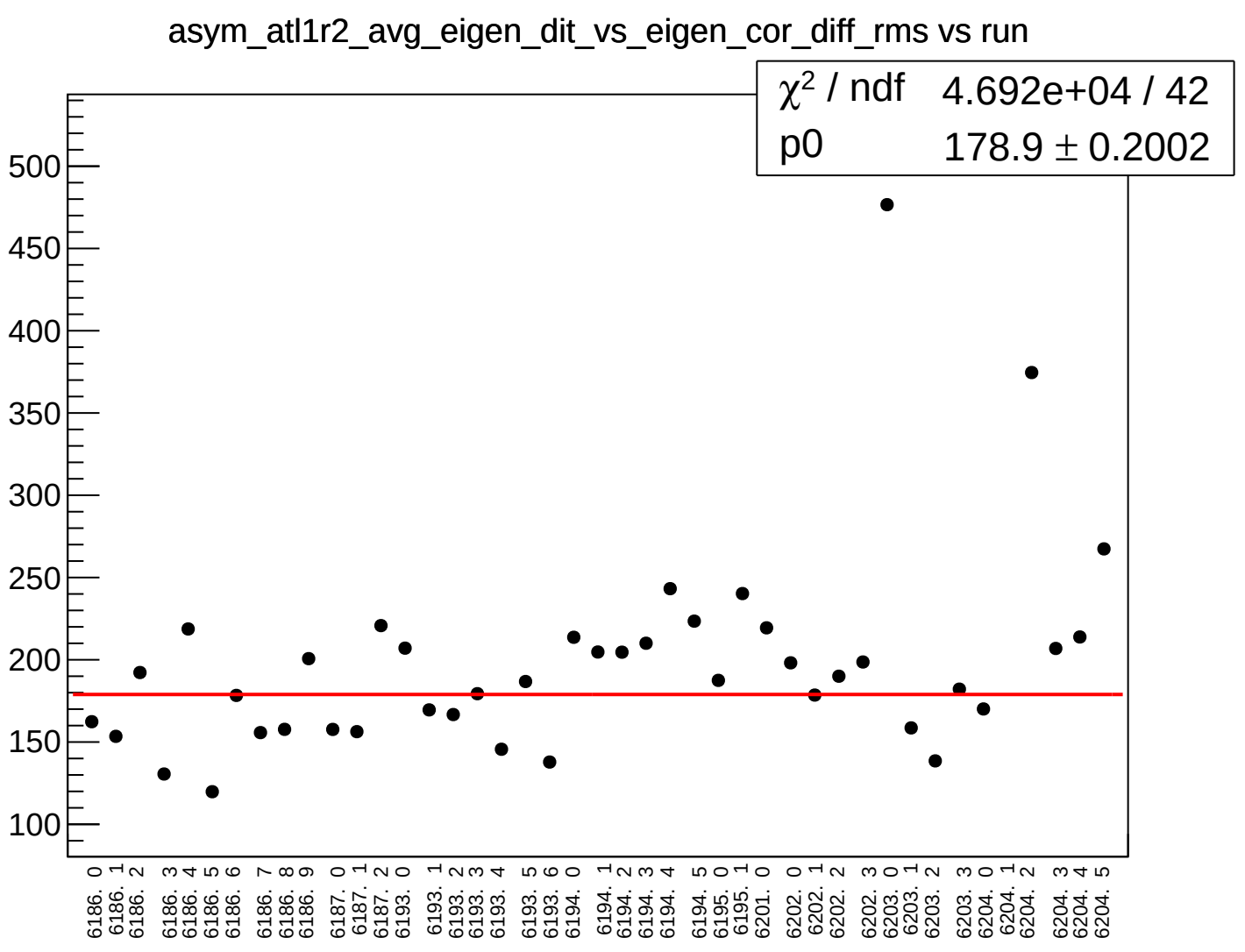
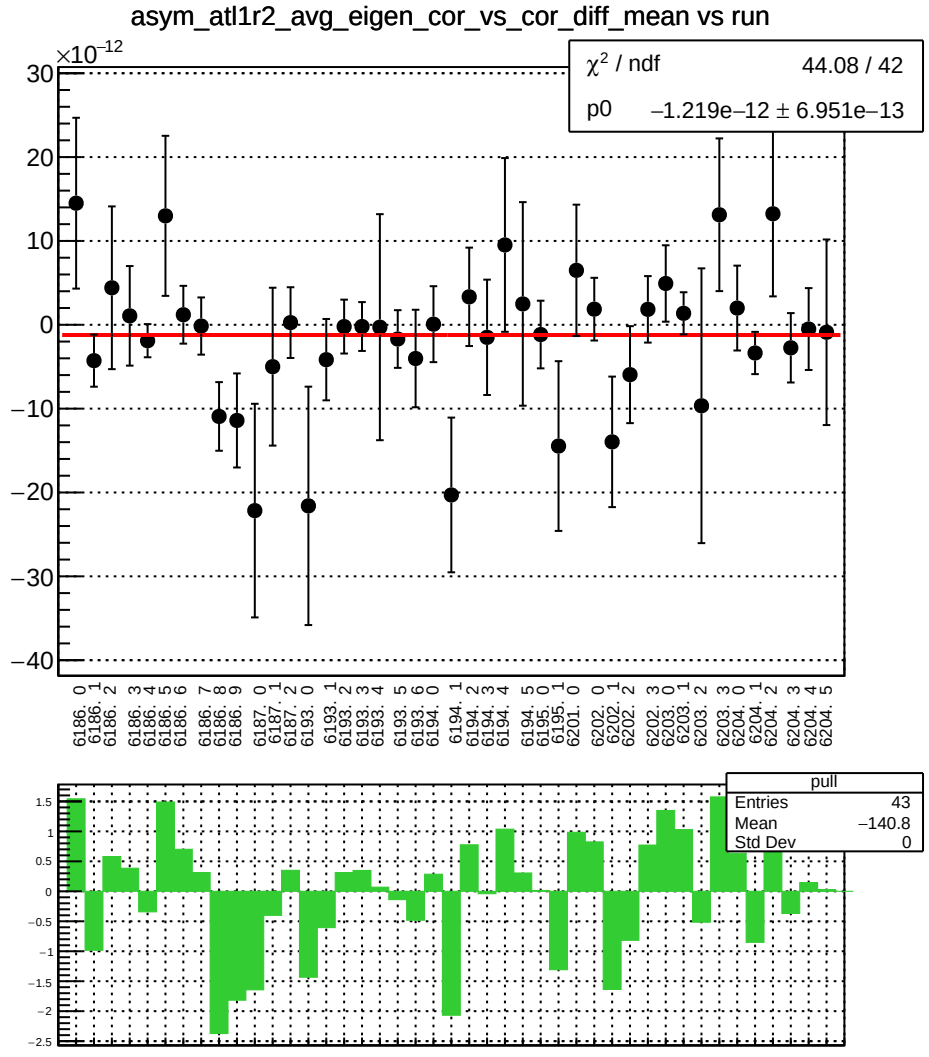
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

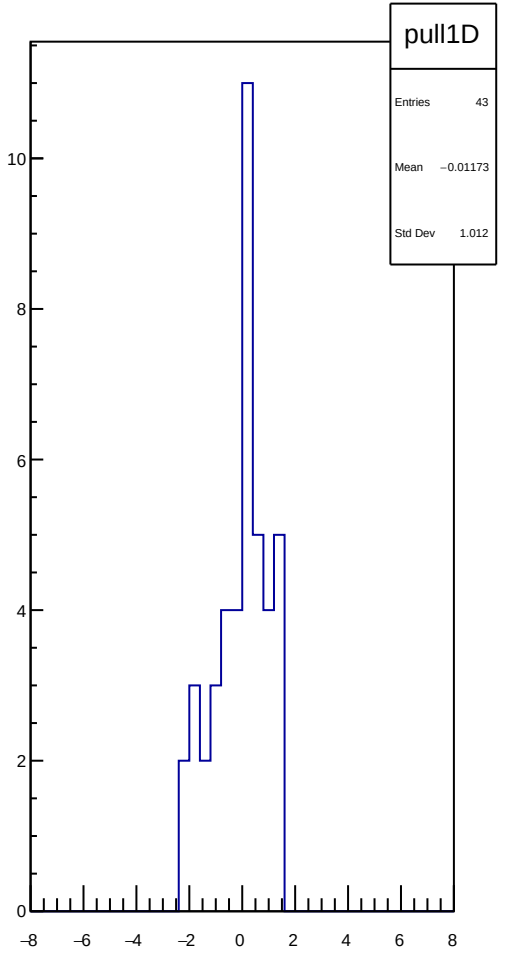

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.68 / 42
p0 0.2226 ± 0.2832
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 385.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.005037
Std Dev 1.053
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

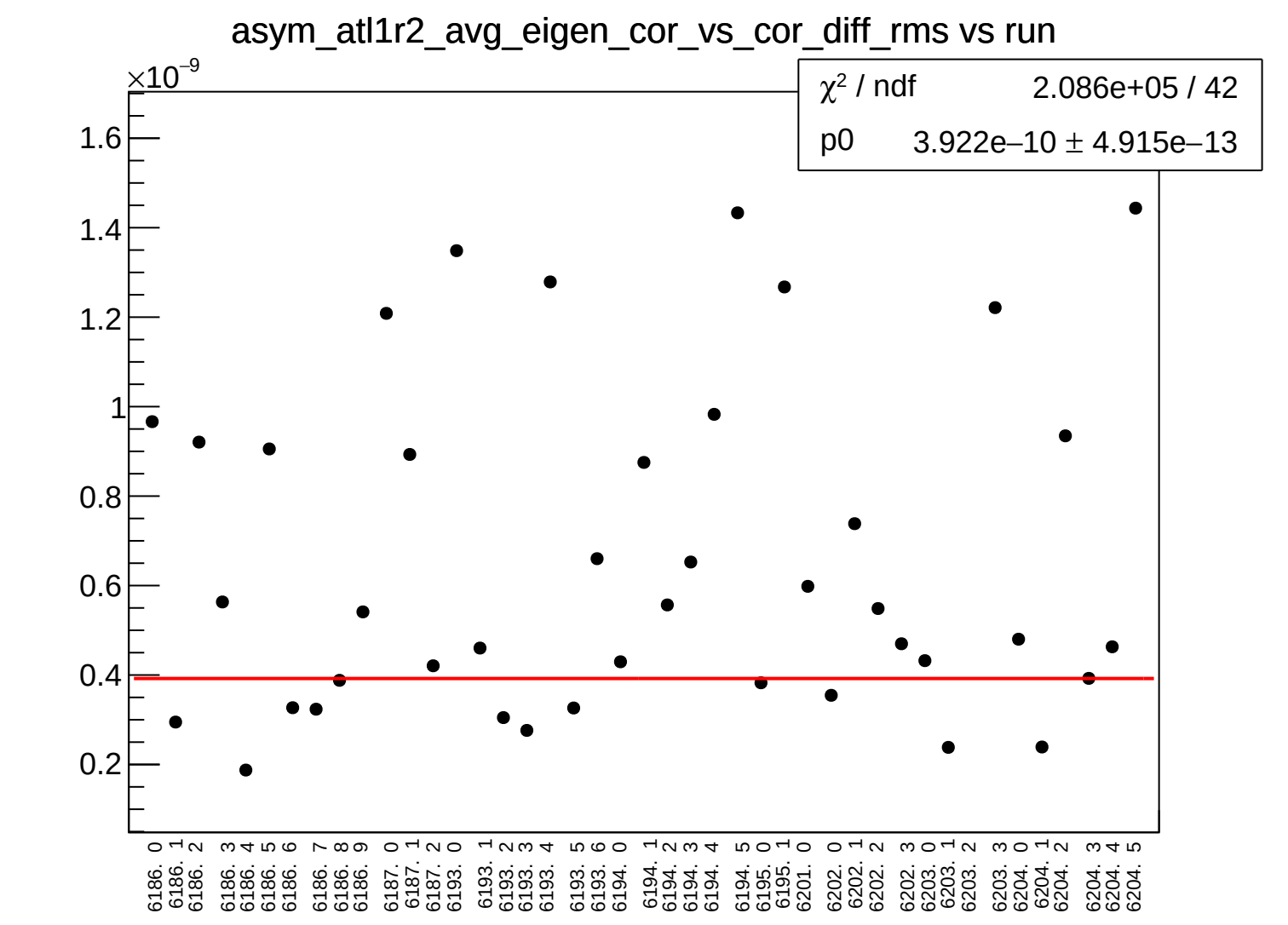

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.692e+04 / 42
p0 178.9 ± 0.2002
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

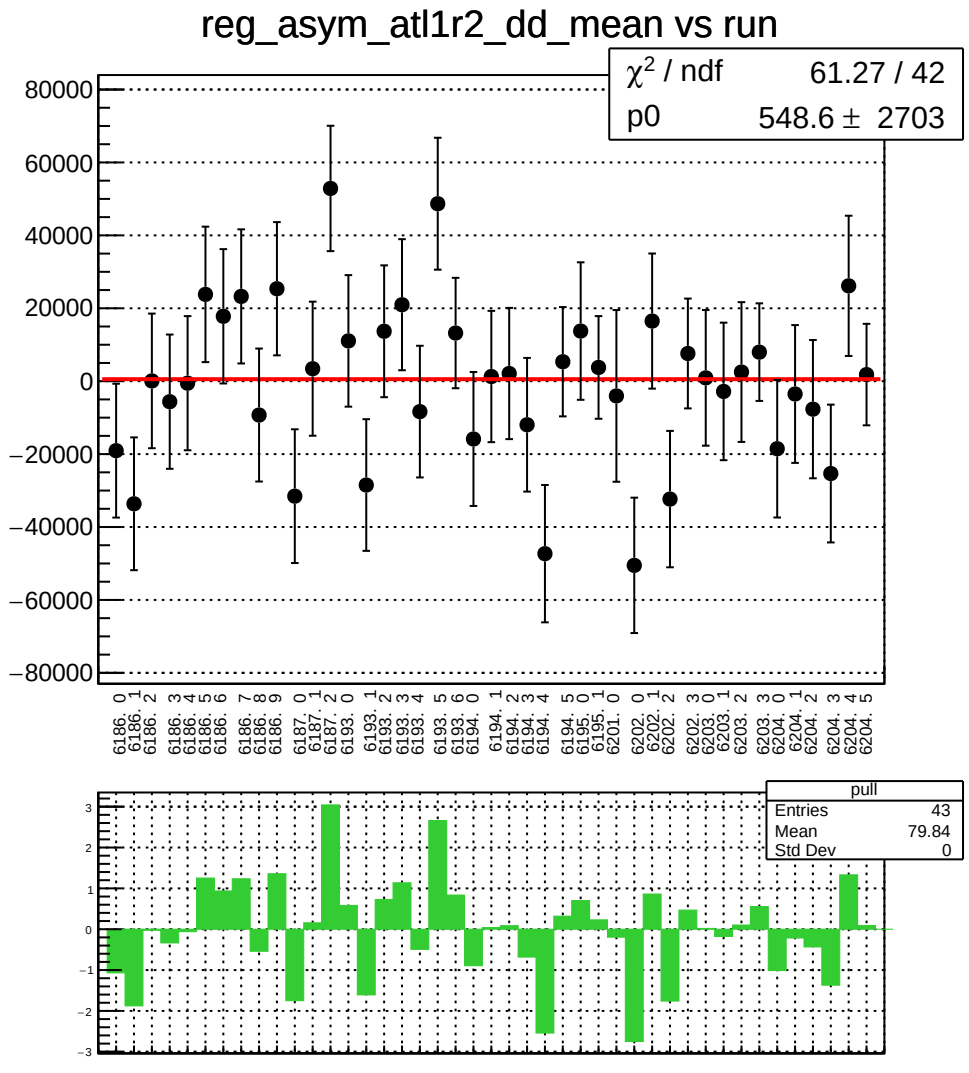

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.68 / 42
p0 0.2226 ± 0.2832
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 385.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.005037
Std Dev 1.053
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

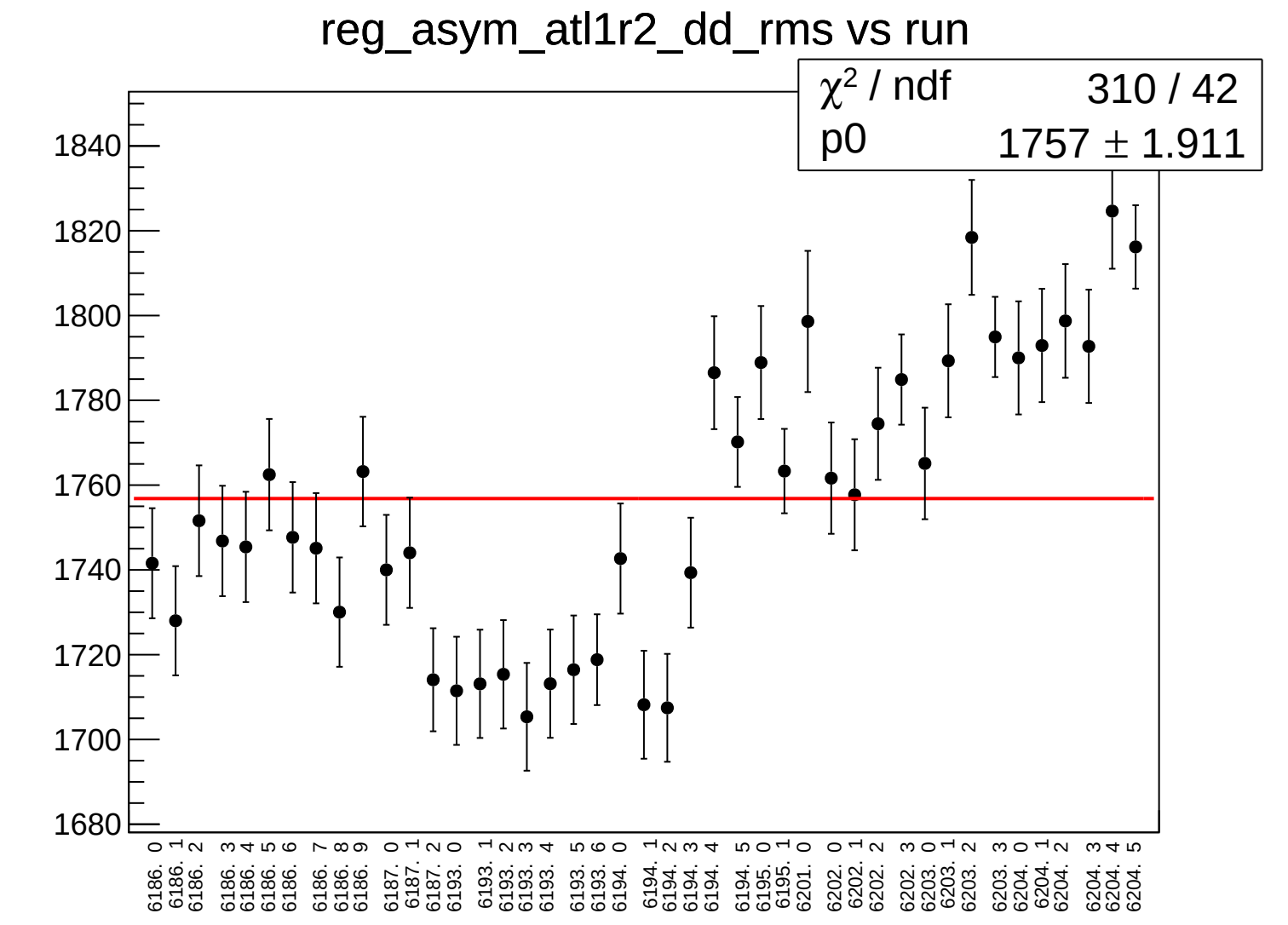

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.692e+04 / 42
p0 178.9 ± 0.2002
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

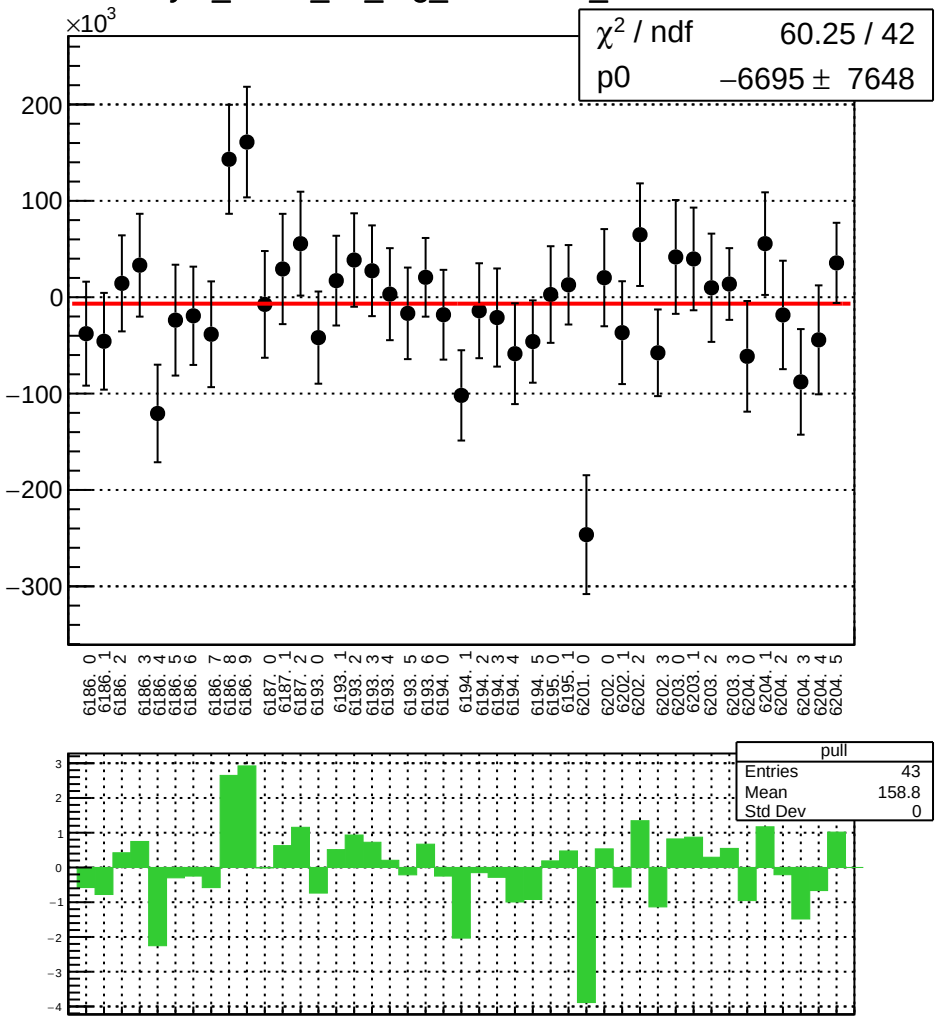

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 44.08 / 42
p0 −1.219e−12 ± 6.951e−13
pull
Entries 43
Mean −140.8
Std Dev 0

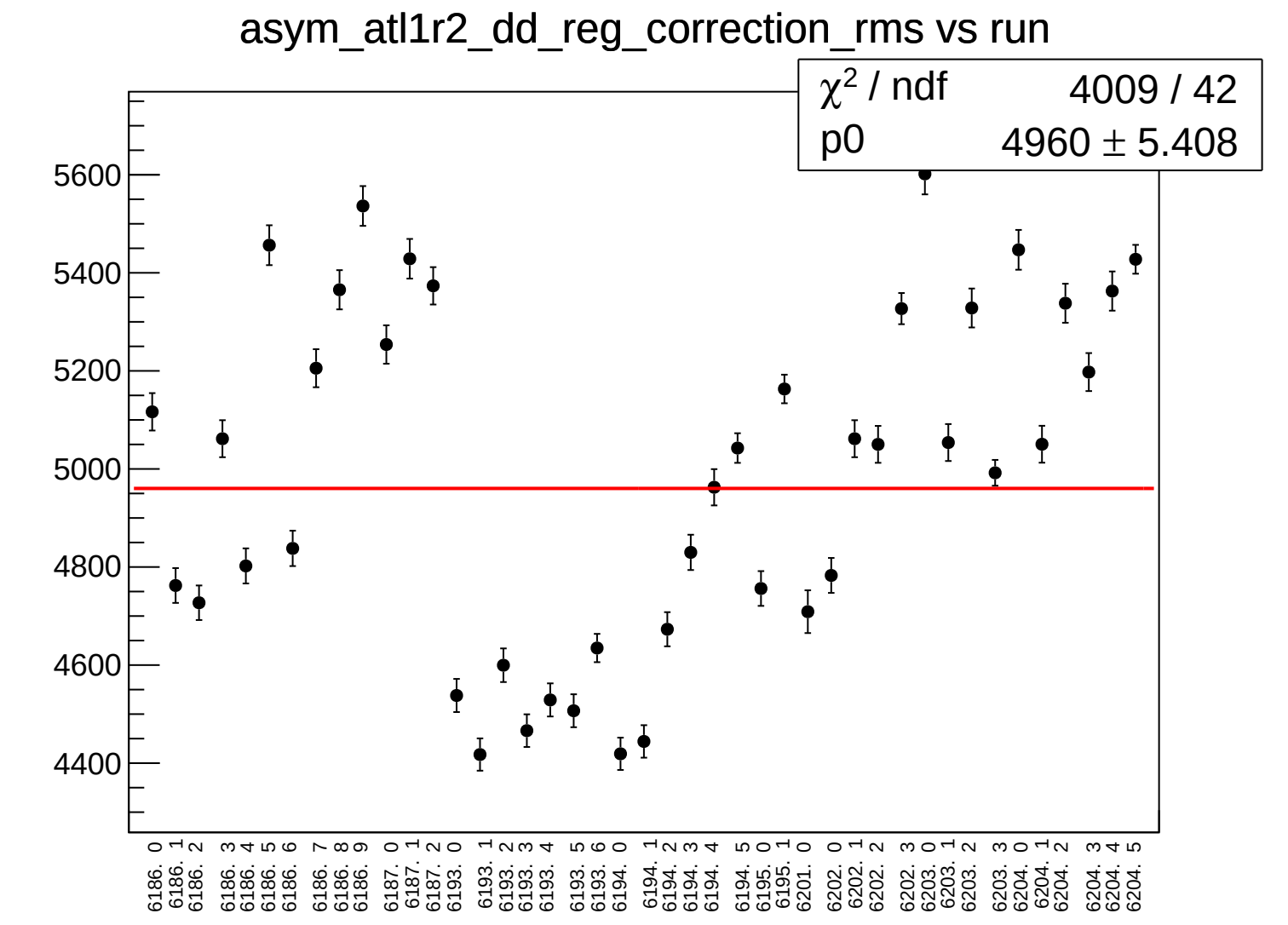

pull1D
Entries 43
Mean −0.01173
Std Dev 1.012


asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.086e+05 / 42
p0 3.922e−10 ± 4.915e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_atl1r2_dd_mean vs run
χ² / ndf 61.27 / 42
p0 548.6 ± 2703
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 79.84
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.02446
Std Dev 1.193
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_rms vs run
χ² / ndf 310 / 42
p0 1757 ± 1.911
1840
1820
1800
1780
1760
1740
1720
1700
1680
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 60.25 / 42
p0 −6695 ± 7648
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 158.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.008388
Std Dev 1.184
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 4009 / 42
p0 4960 ± 5.408
5600
5400
5200
5000
4800
4600
4400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
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6204. 0
6204. 1
6204. 2
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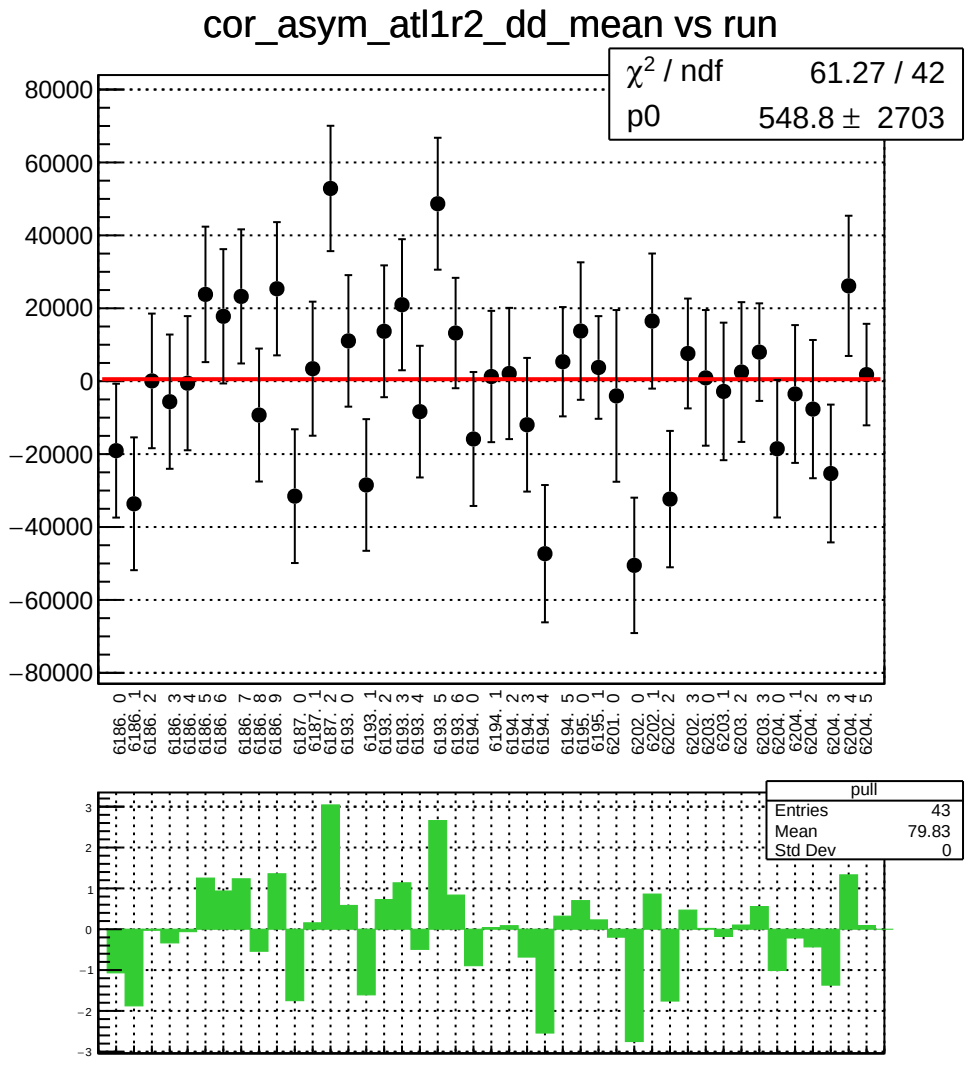
6204. 4
6204. 5


cor_asym_atl1r2_dd_mean vs run
χ² / ndf 61.27 / 42
p0 548.8 ± 2703
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
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6193. 5
6193. 6
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6195. 1
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6203. 1
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6203. 3
6204. 0
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6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 79.83
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.02445
Std Dev 1.193
8
7
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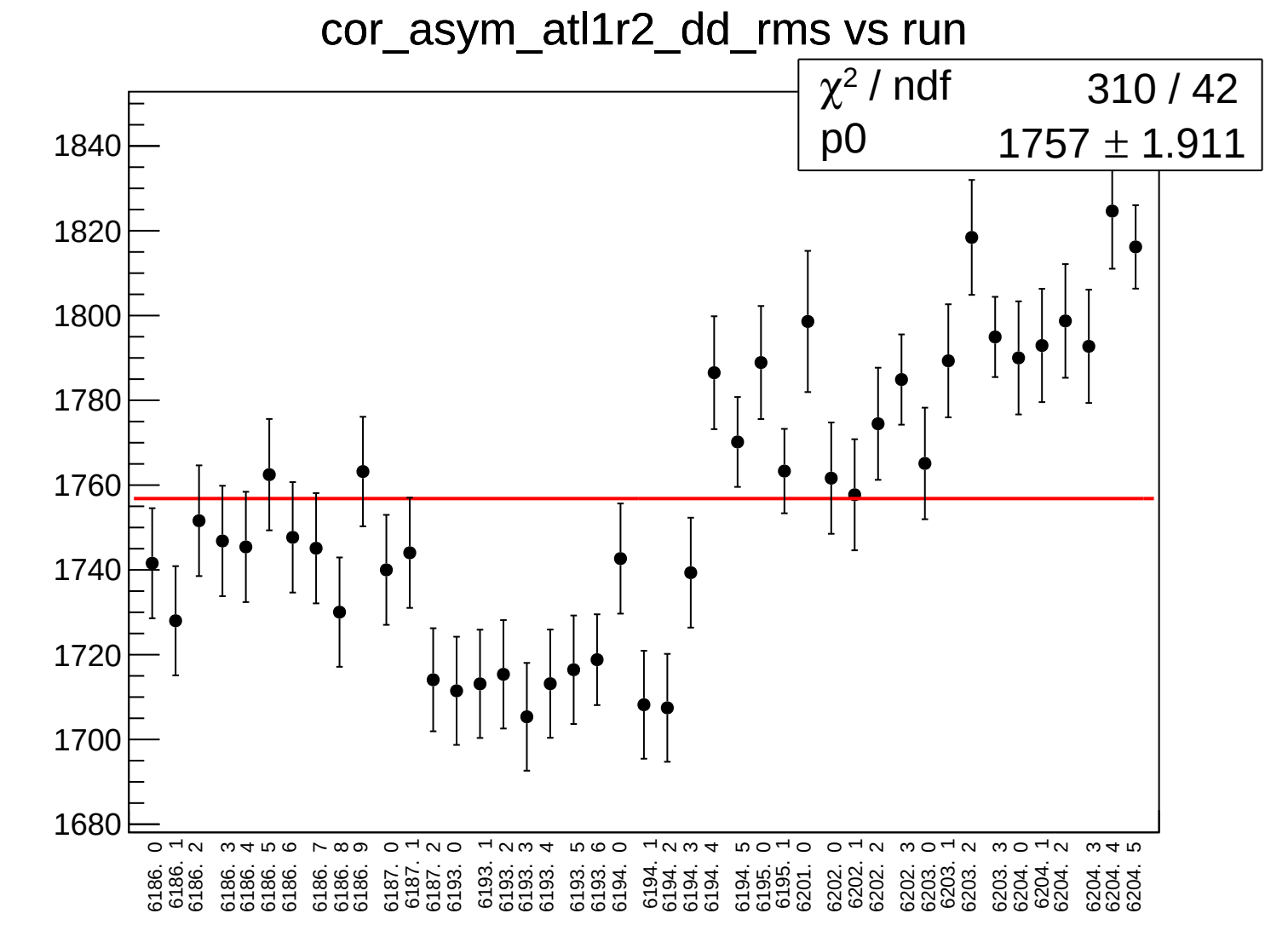
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_dd_rms vs run
χ² / ndf 310 / 42
p0 1757 ± 1.911
1840
1820
1800
1780
1760
1740
1720
1700
1680
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
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6186. 6
6186. 7
6186. 8
6186. 9
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6187. 2
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
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6202. 2
6202. 3
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6203. 2
6203. 3
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6204. 2
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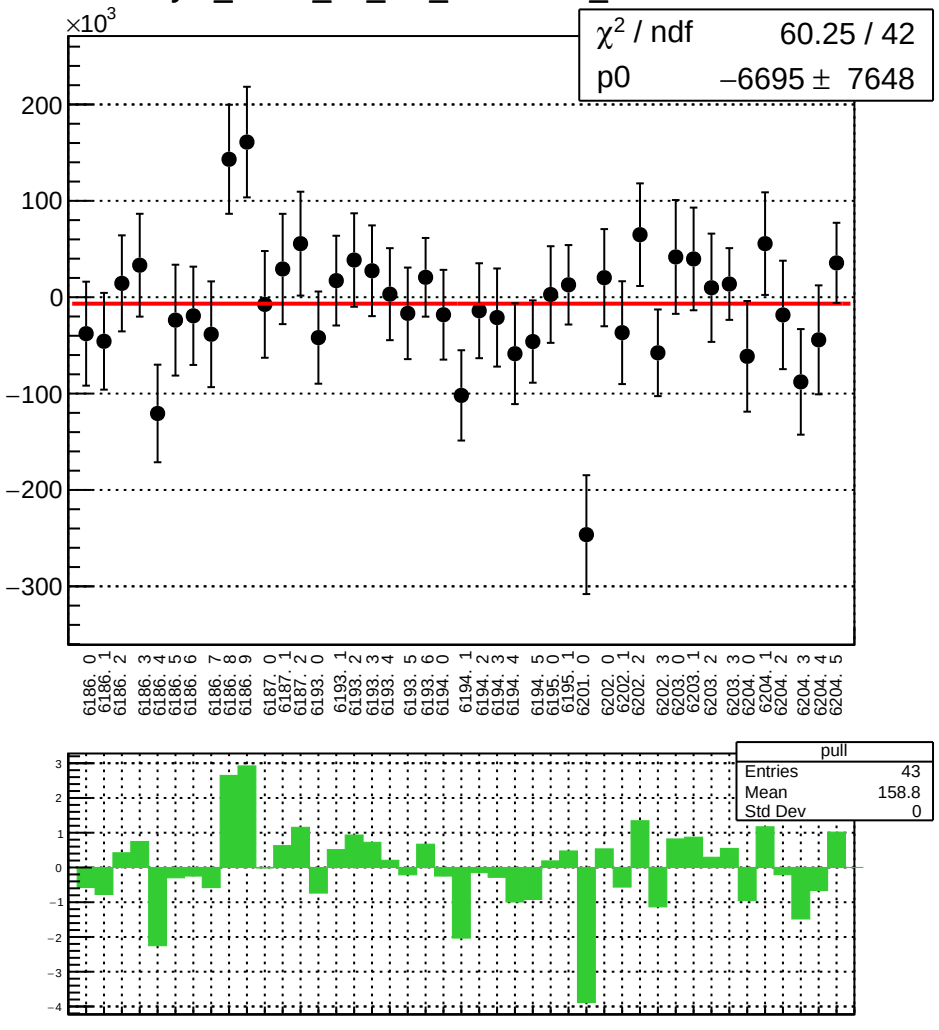
6204. 4
6204. 5


asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 60.25 / 42
p0 −6695 ± 7648
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
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6186. 9
6187. 0
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6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
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6194. 0
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6194. 2
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6202. 0
6202. 1
6202. 2
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6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 158.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.008386
Std Dev 1.184
9
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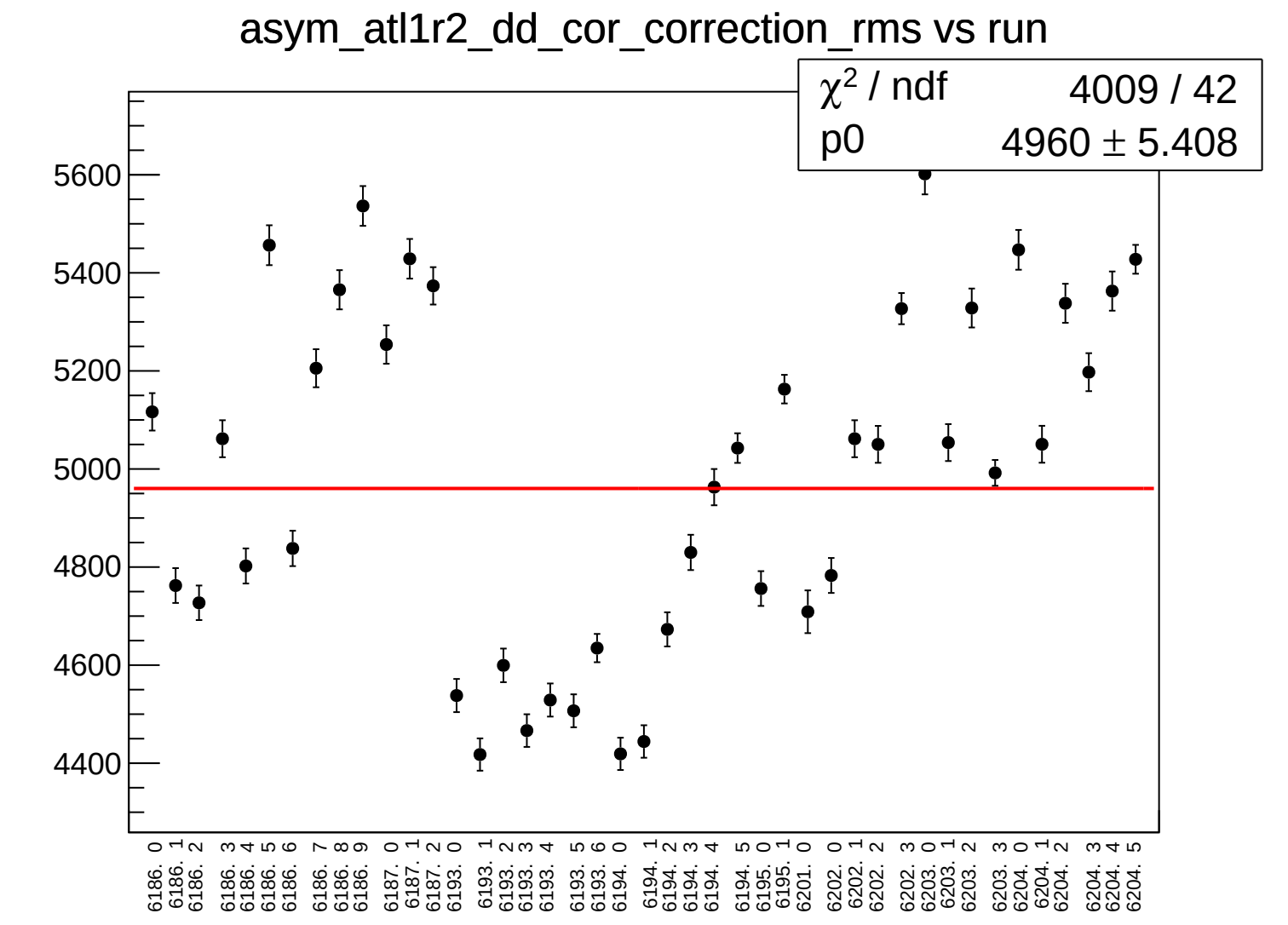
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 4009 / 42
p0 4960 ± 5.408
5600
5400
5200
5000
4800
4600
4400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
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6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
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6193. 6
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6194. 5
6195. 0
6195. 1
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6202. 1
6202. 2
6202. 3
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6204. 2
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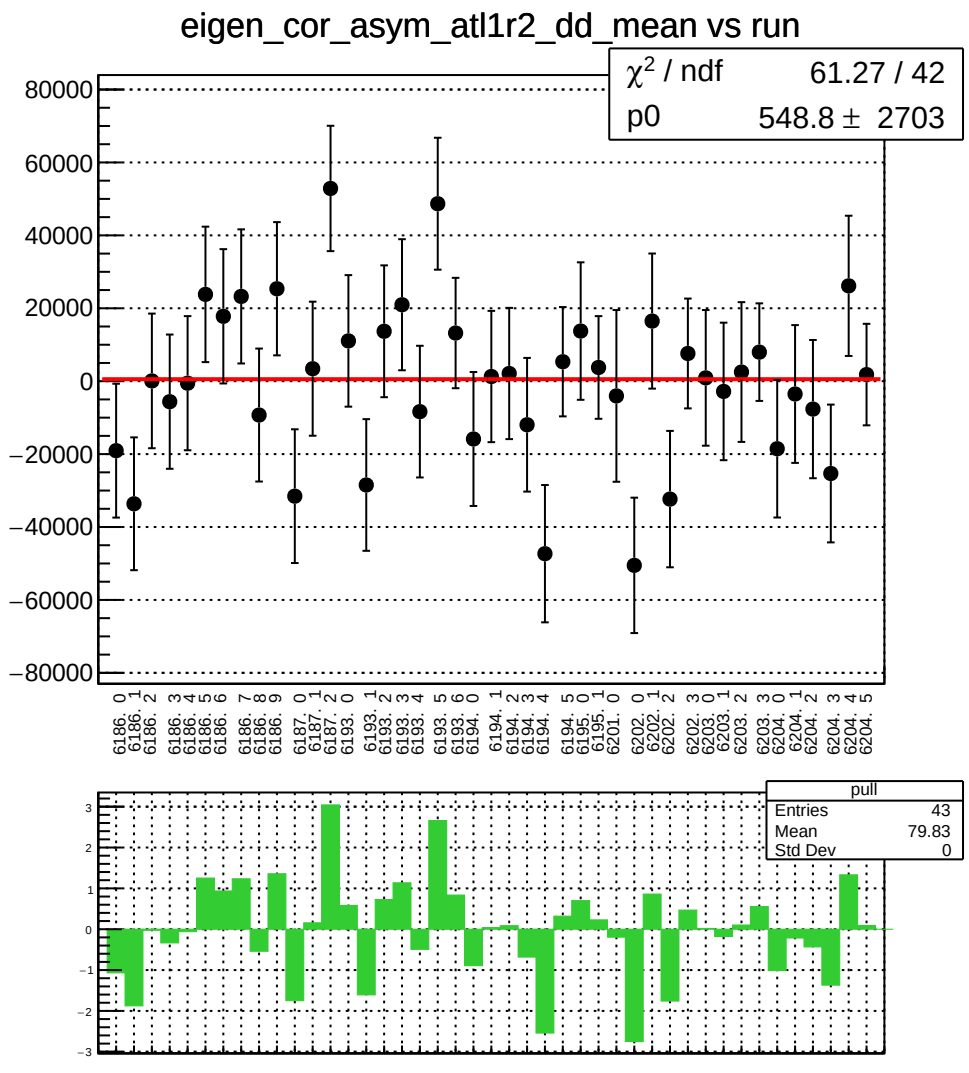
6204. 4
6204. 5


eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 61.27 / 42
p0 548.8 ± 2703
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
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6187. 0
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6187. 2
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6193. 6
6194. 0
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6203. 0
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6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 79.83
Std Dev 0
3
2
1
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−1
−2
−3
pull1D
Entries 43
Mean −0.02445
Std Dev 1.193
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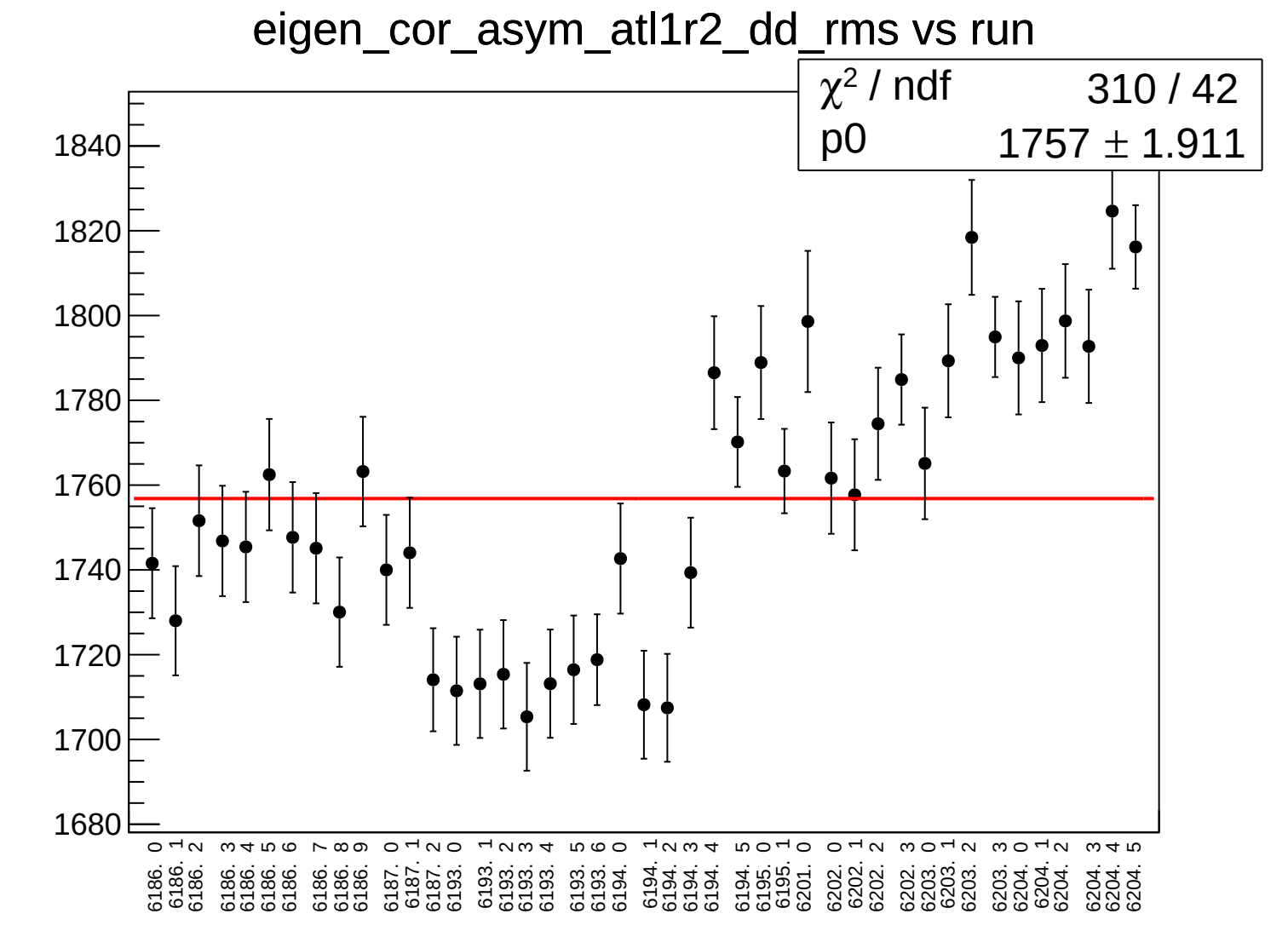
eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 310 / 42
p0 1757 ± 1.911
1840
1820
1800
1780
1760
1740
1720
1700
1680
6186. 0
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6186. 9
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6187. 2
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6193. 3
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6193. 5
6193. 6
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6194. 2
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6194. 4
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6202. 1
6202. 2
6202. 3
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6203. 3
6204. 0
6204. 1
6204. 2
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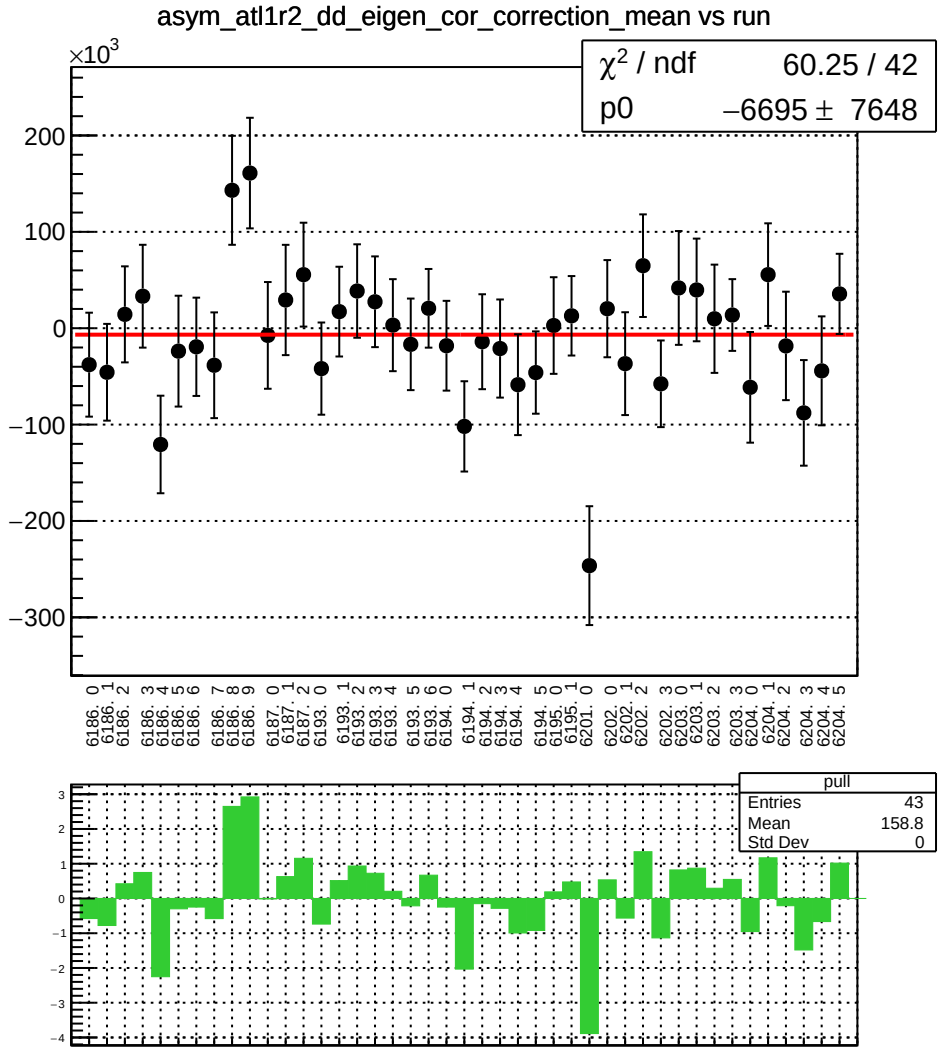
6204. 4
6204. 5


asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 60.25 / 42
p0 −6695 ± 7648
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
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6186. 6
6186. 7
6186. 8
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6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
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6193. 6
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6194. 2
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6195. 1
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6202. 1
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6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 158.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.008386
Std Dev 1.184
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
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2
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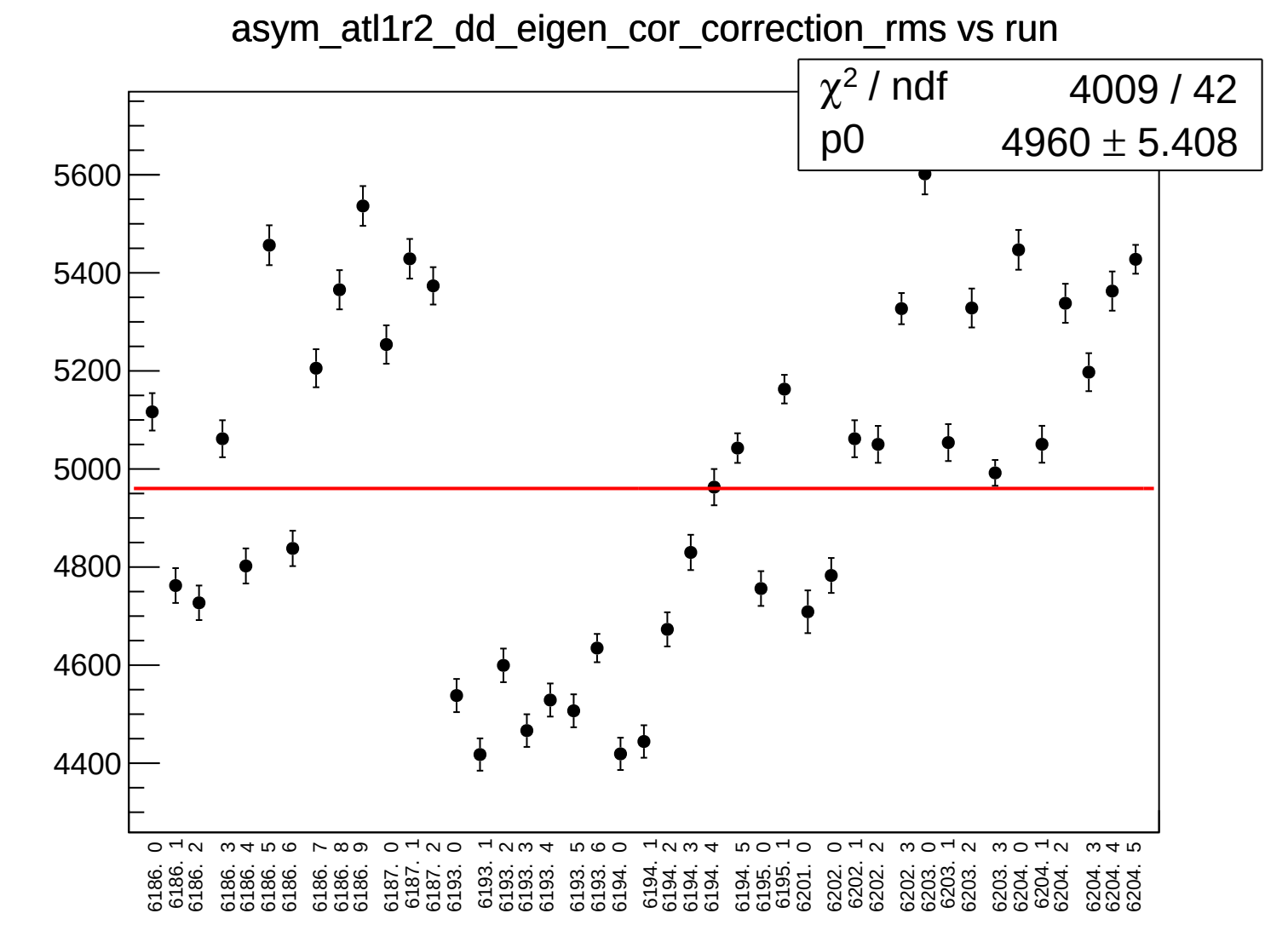
8


asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4009 / 42
p0 4960 ± 5.408
5600
5400
5200
5000
4800
4600
4400
6186. 0
6186. 1
6186. 2
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6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
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6193. 5
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6194. 0
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6194. 2
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6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6204. 0
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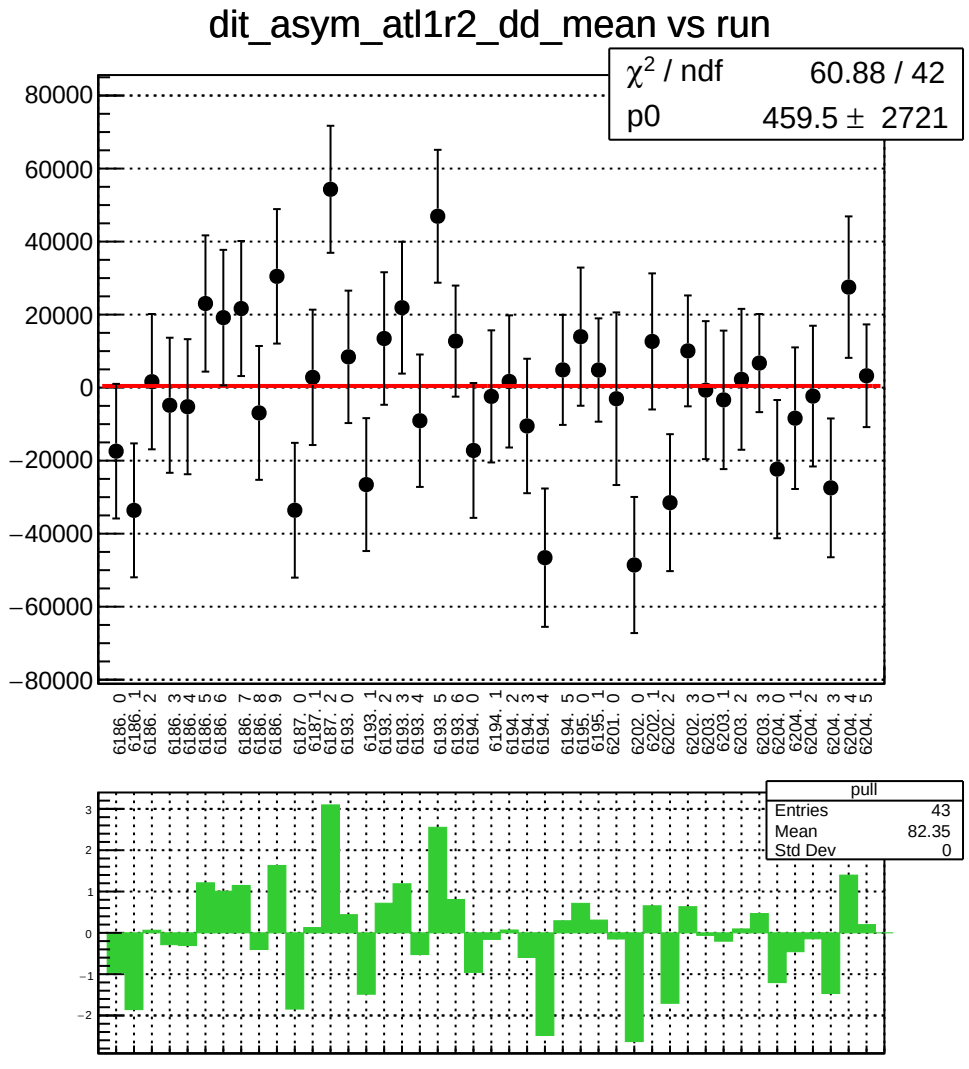
6204. 4
6204. 5


dit_asym_atl1r2_dd_mean vs run
χ² / ndf 60.88 / 42
p0 459.5 ± 2721
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
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6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
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6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
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6194. 5
6195. 0
6195. 1
6201. 0
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6202. 2
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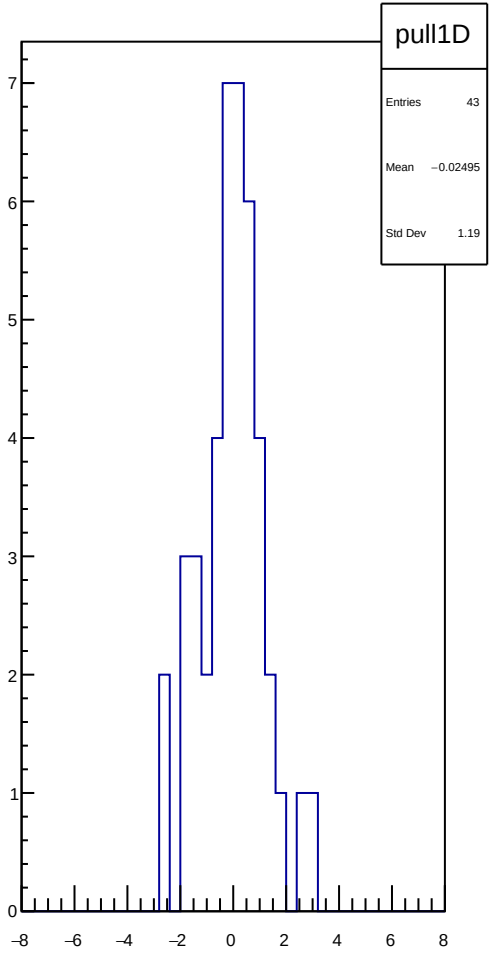
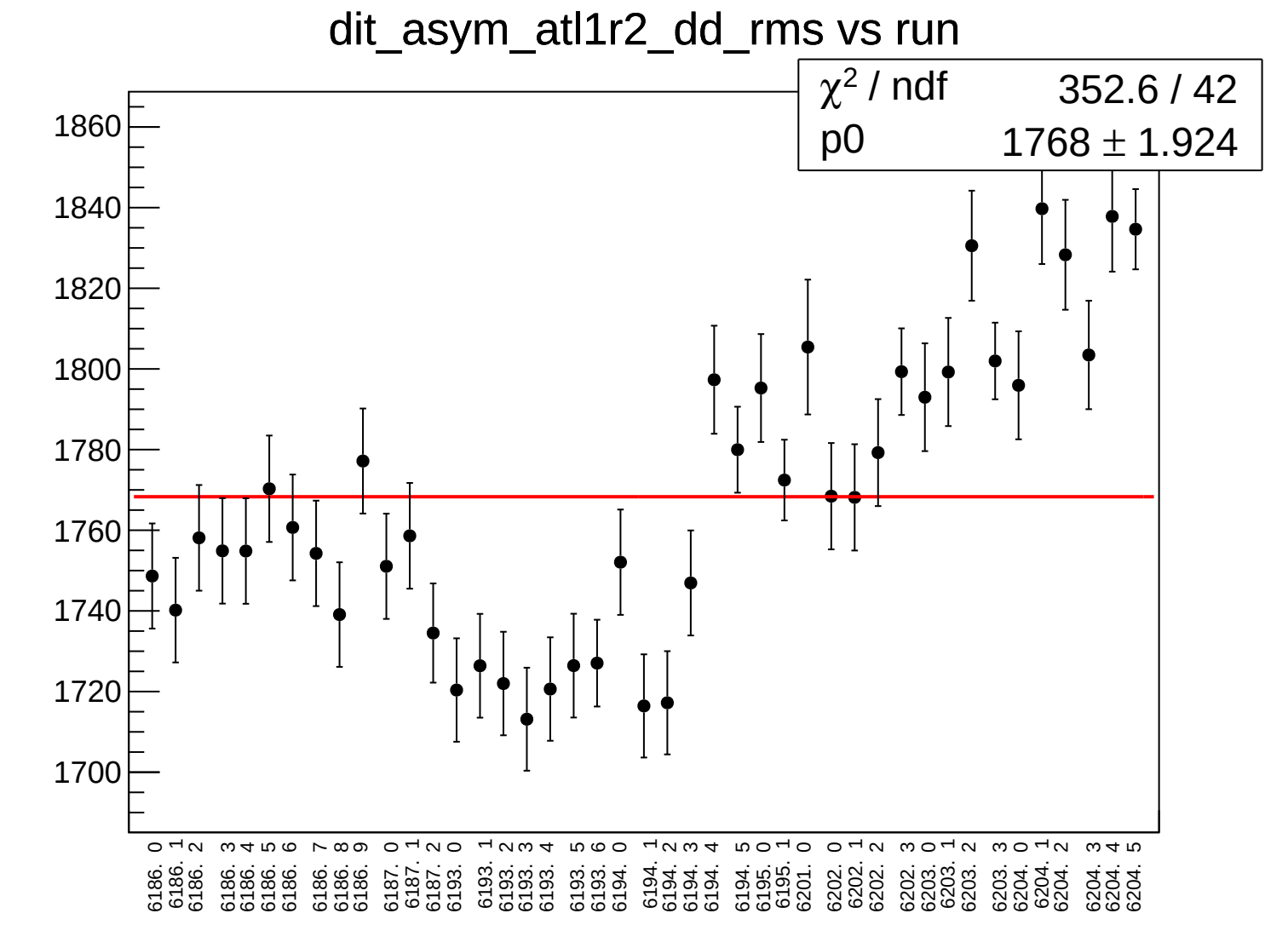
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 82.35
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.02495
Std Dev 1.19
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1r2_dd_rms vs run
χ² / ndf 352.6 / 42
p0 1768 ± 1.924
1860
1840
1820
1800
1780
1760
1740
1720
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
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6193. 4
6193. 5
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6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
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6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
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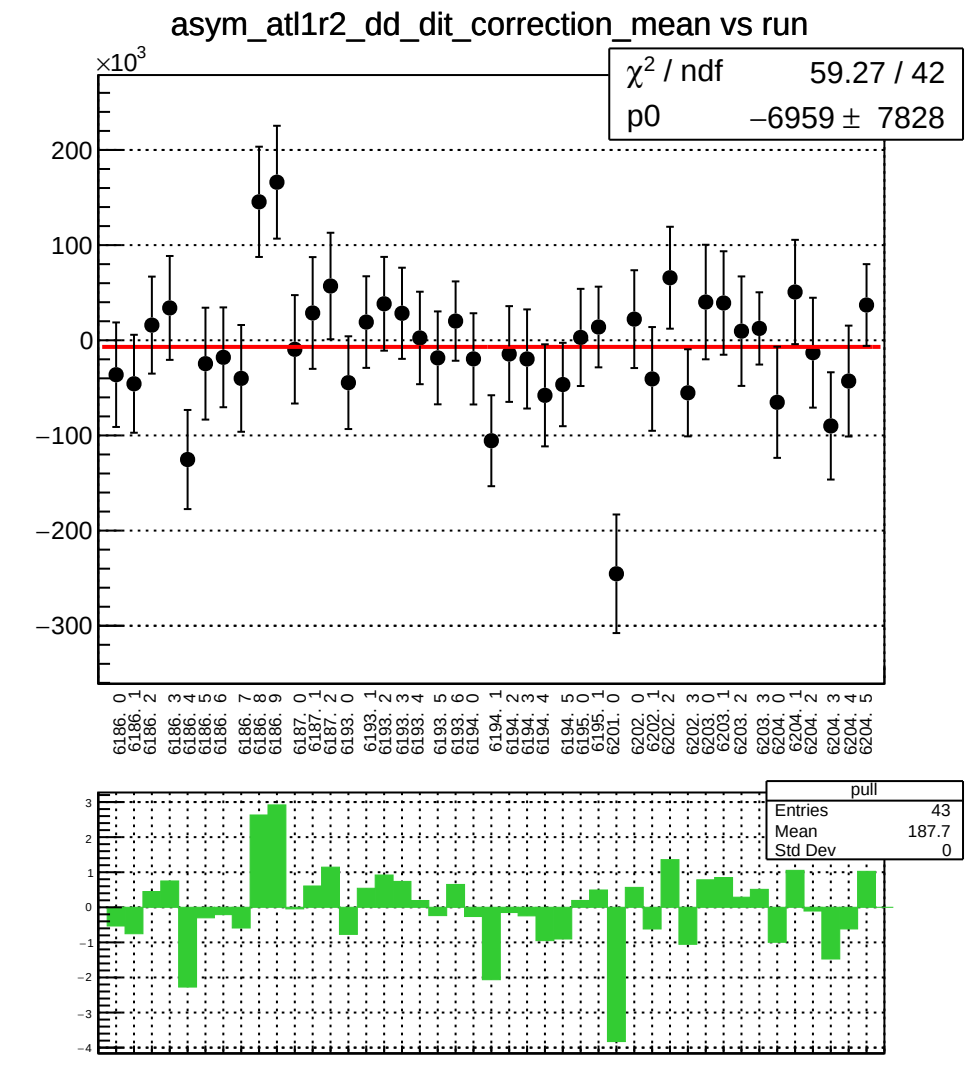
6204. 5


asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 59.27 / 42
p0 −6959 ± 7828
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
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6186. 4
6186. 5
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6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
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6193. 1
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6193. 6
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6194. 1
6194. 2
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6195. 1
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6203. 1
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6204. 1
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6204. 5
pull
Entries 43
Mean 187.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.006943
Std Dev 1.174
10
8
6
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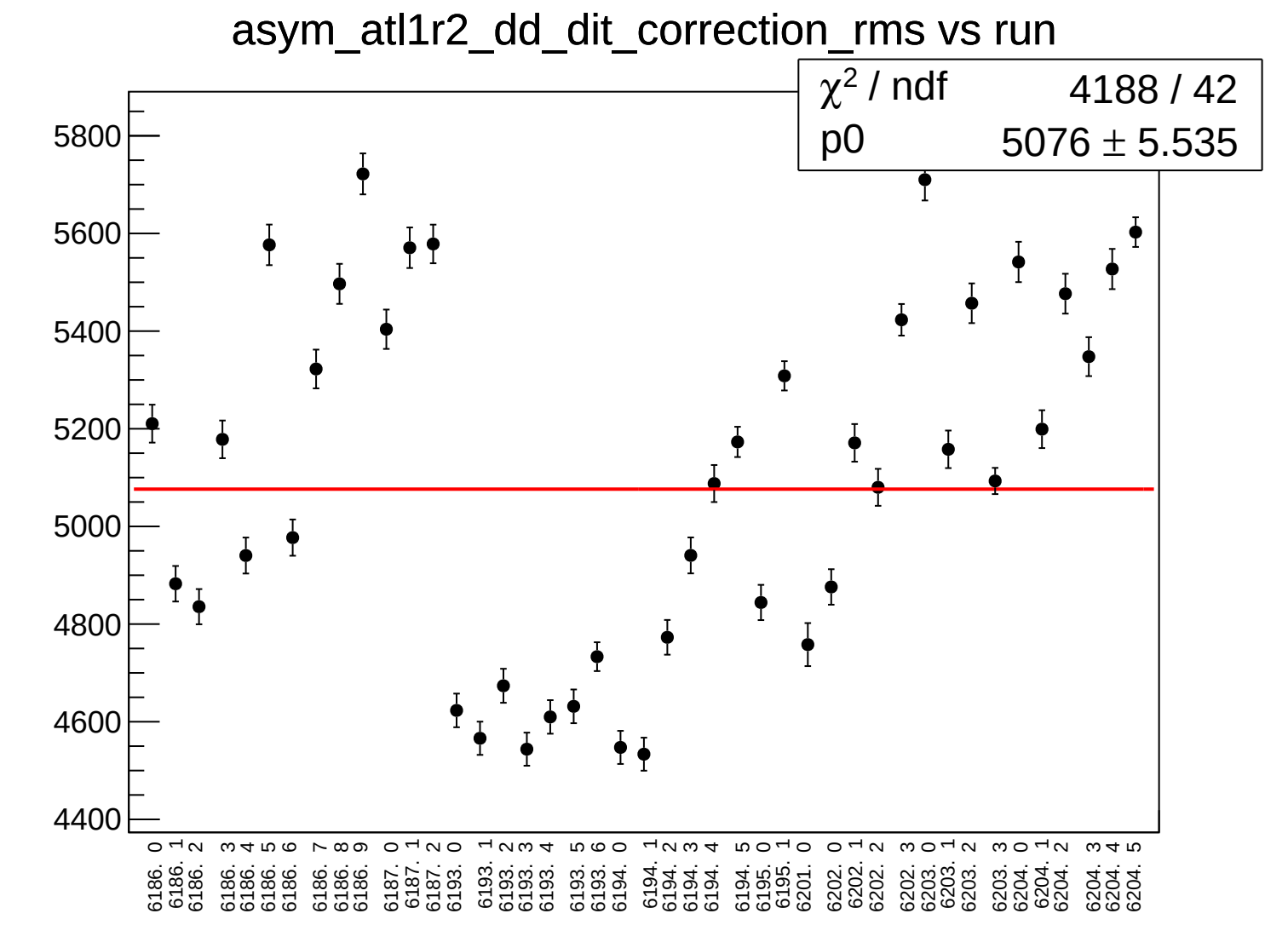
6
8


asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 4188 / 42
p0 5076 ± 5.535
5800
5600
5400
5200
5000
4800
4600
4400
6186. 0
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6186. 9
6187. 0
6187. 1
6187. 2
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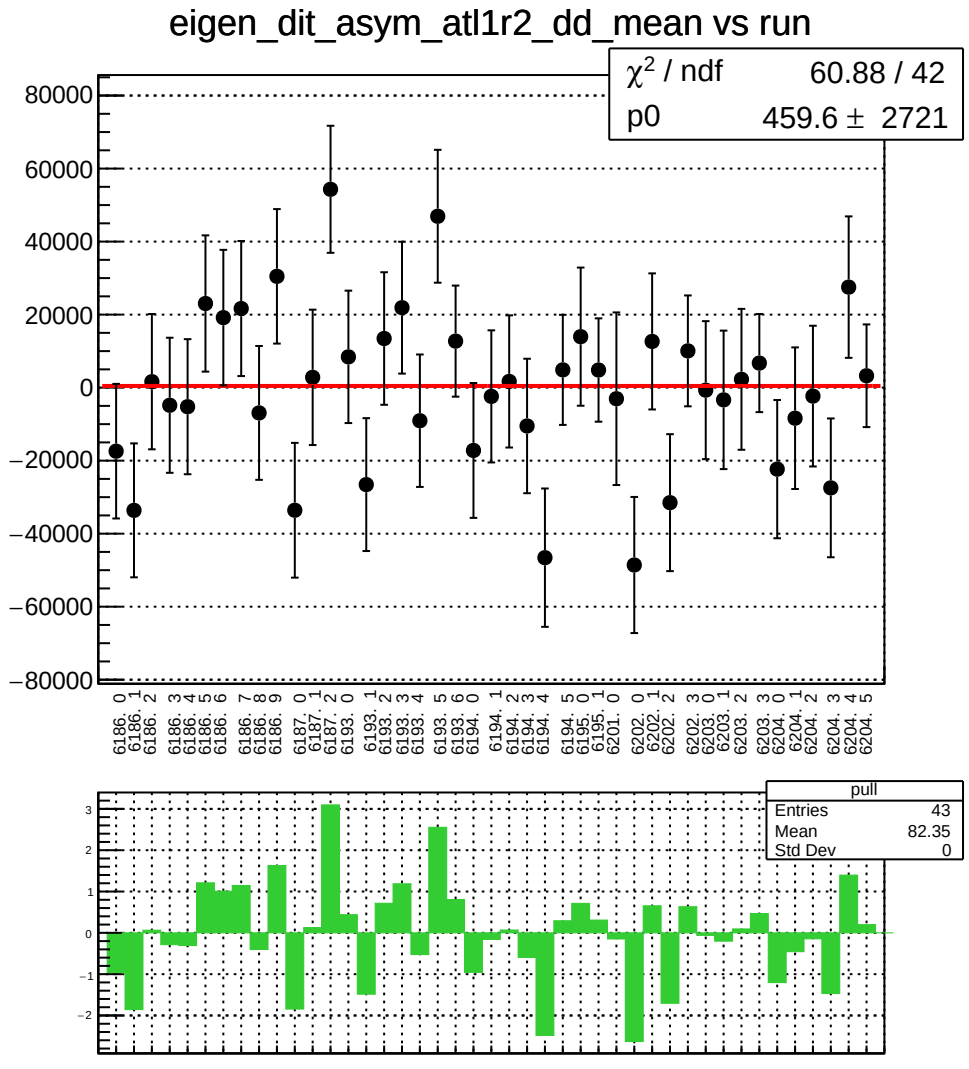
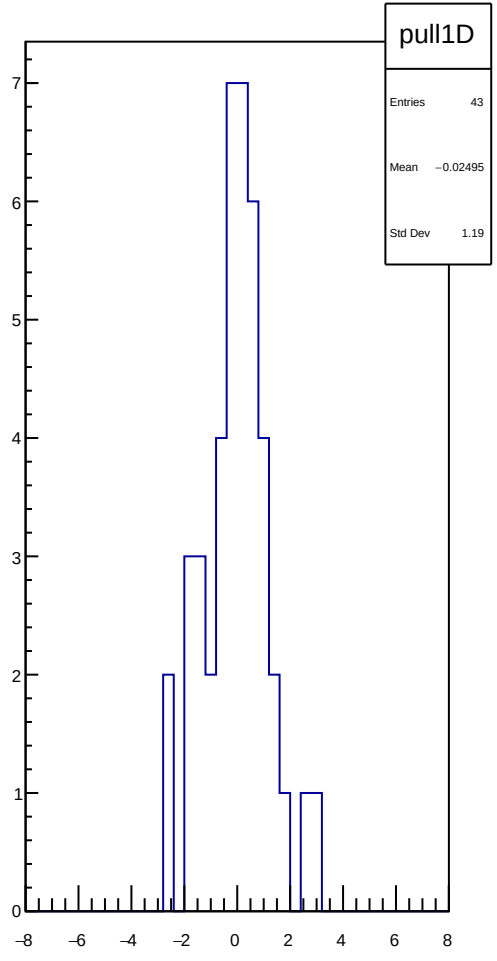
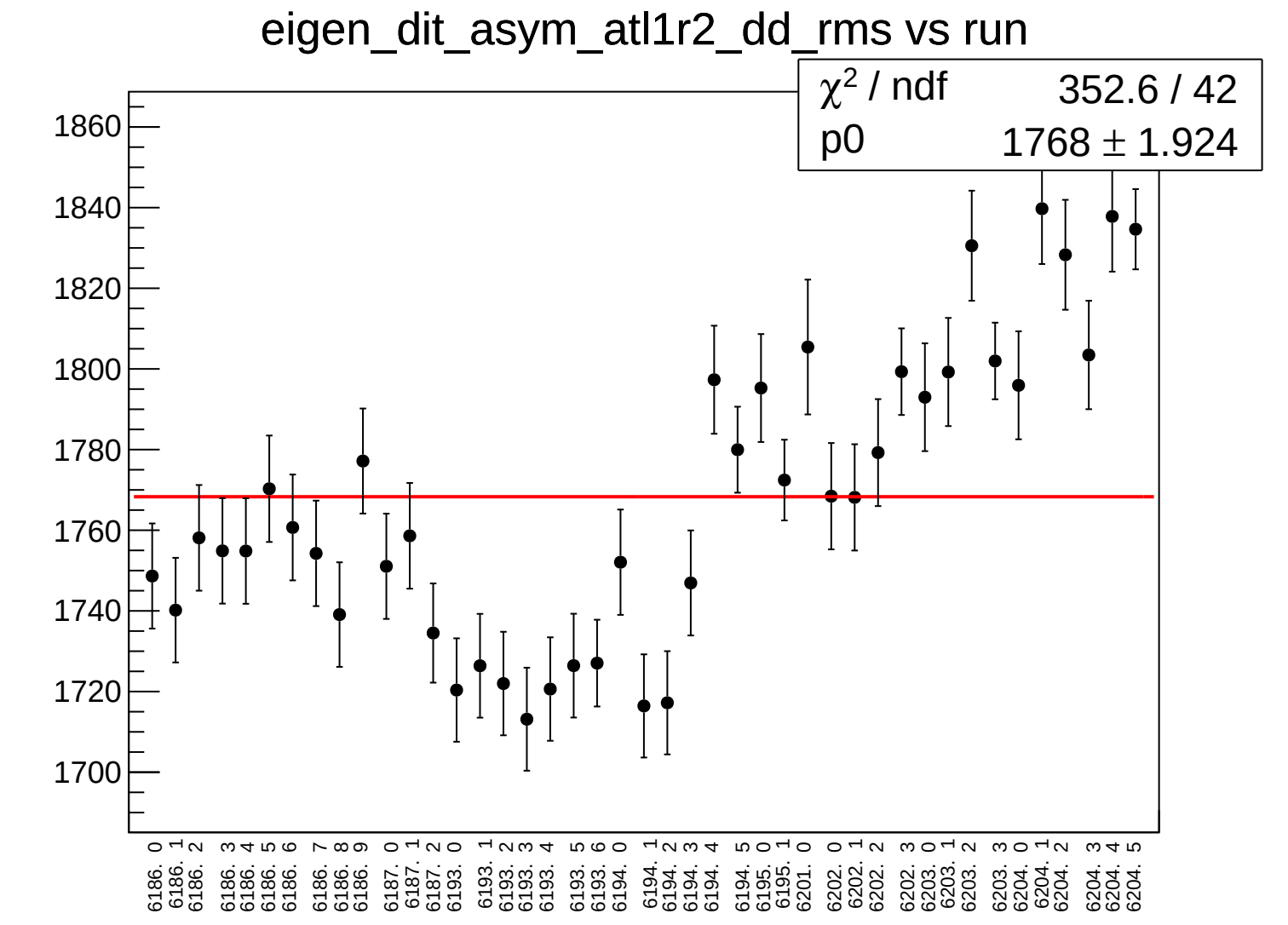
6204. 4
6204. 5


eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 60.88 / 42
p0 459.6 ± 2721
pull
Entries 43
Mean 82.35
Std Dev 0


pull1D
Entries 43
Mean −0.02495
Std Dev 1.19


eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 352.6 / 42
p0 1768 ± 1.924
1860
1840
1820
1800
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1740
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6186. 0
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6193. 2
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6193. 4
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6194. 0
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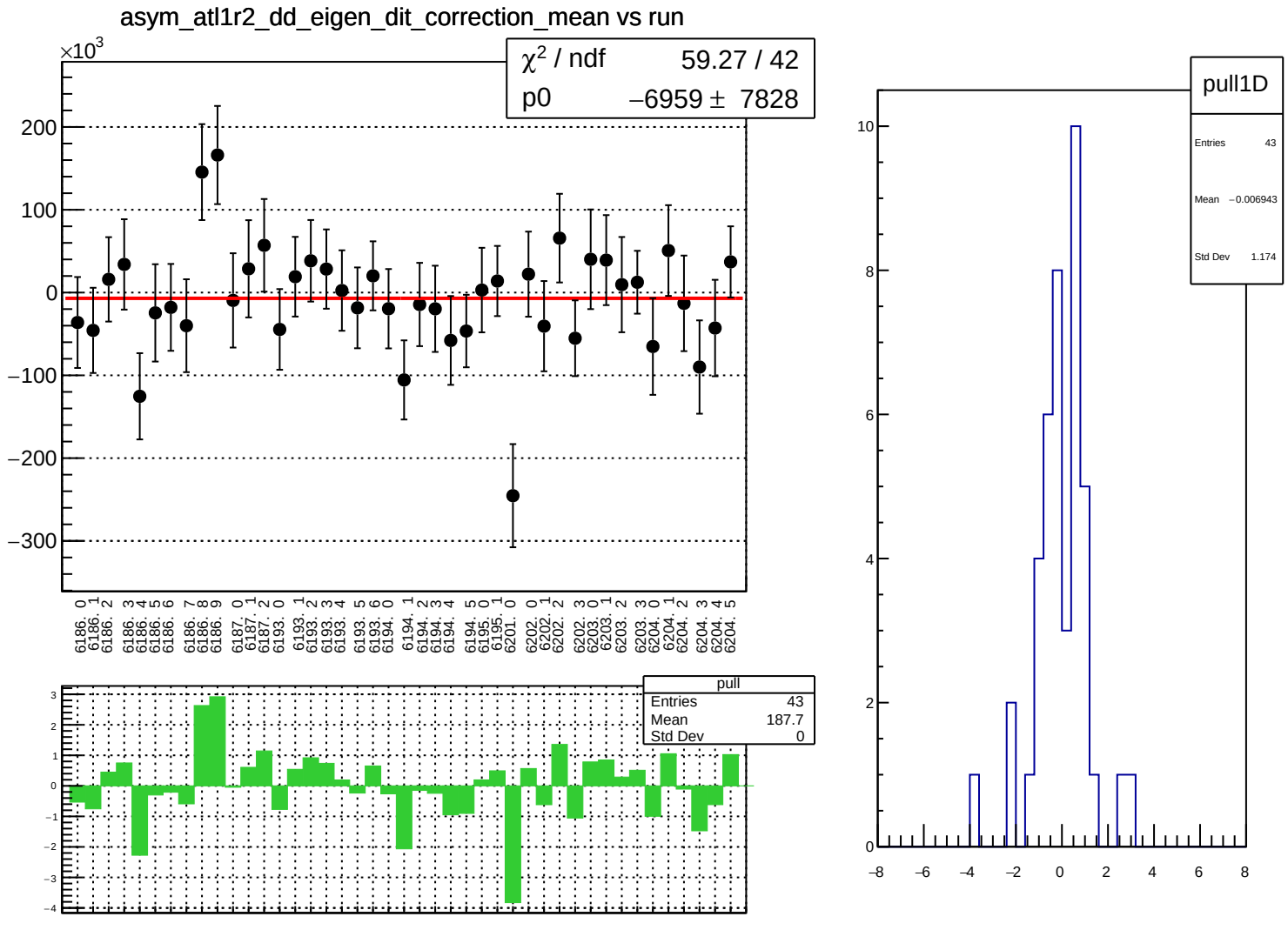
6204. 5


asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 59.27 / 42
p0 −6959 ± 7828
200
100
0
−100
−200
−300
6186. 0
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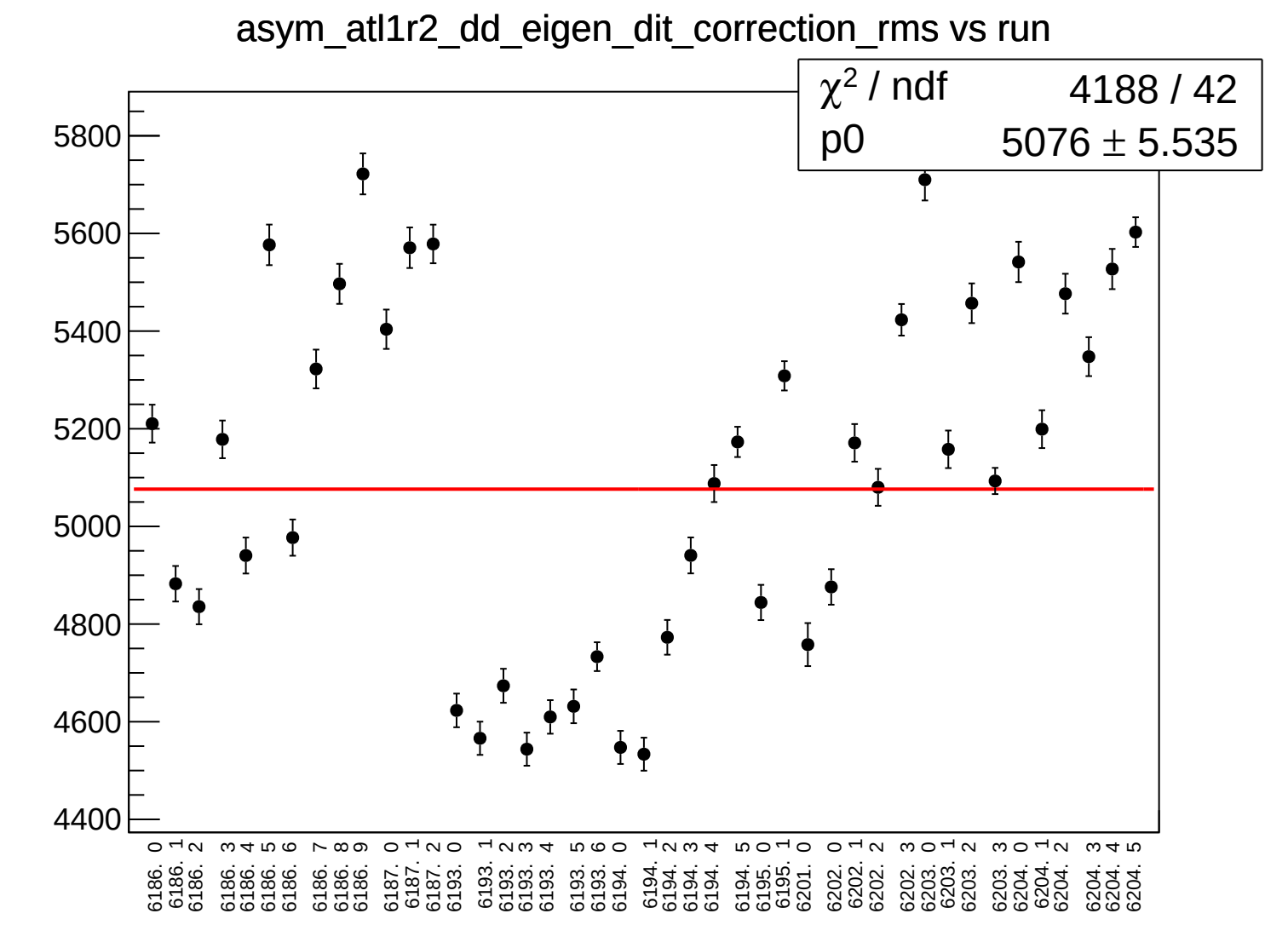
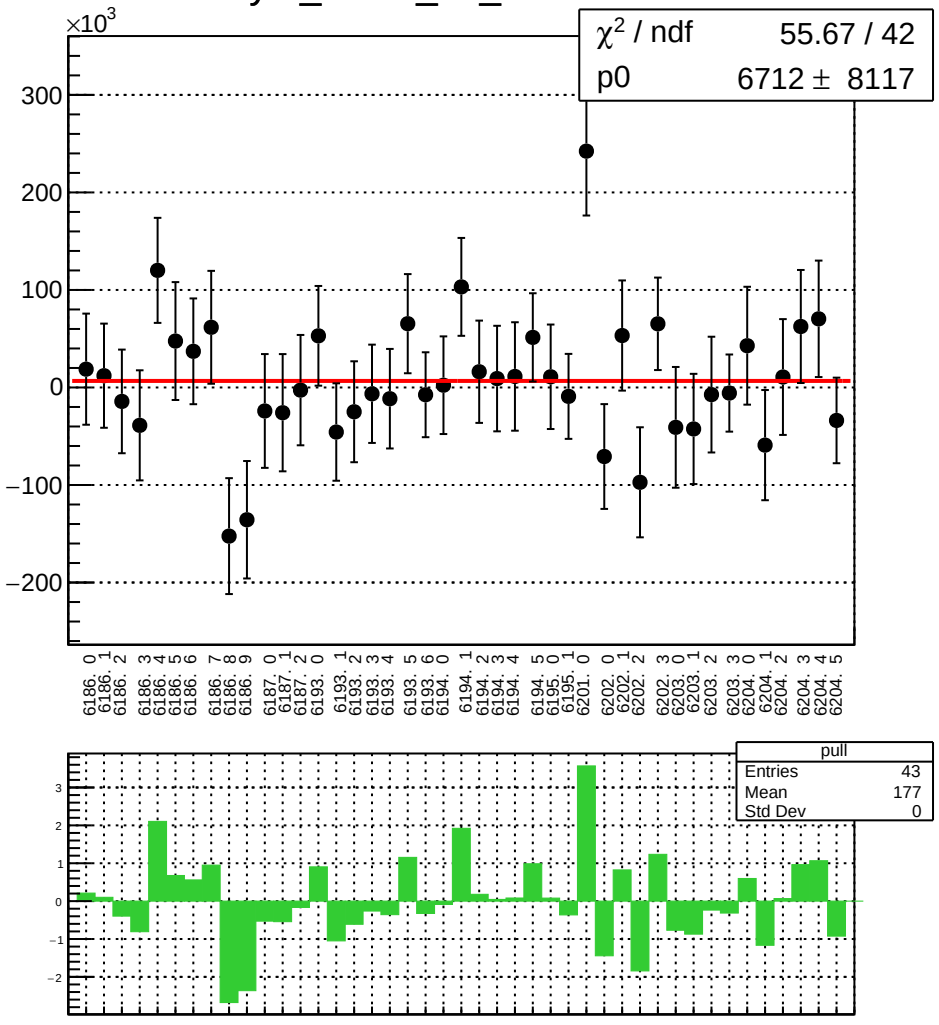
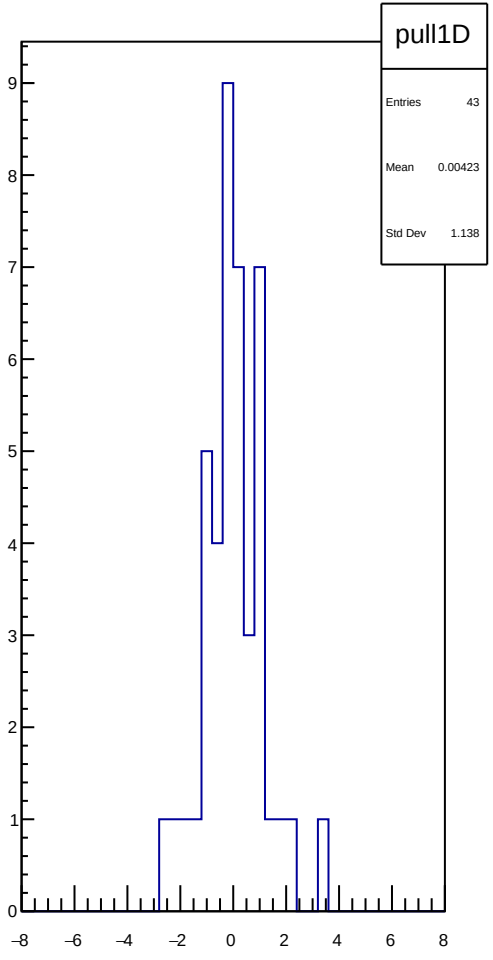
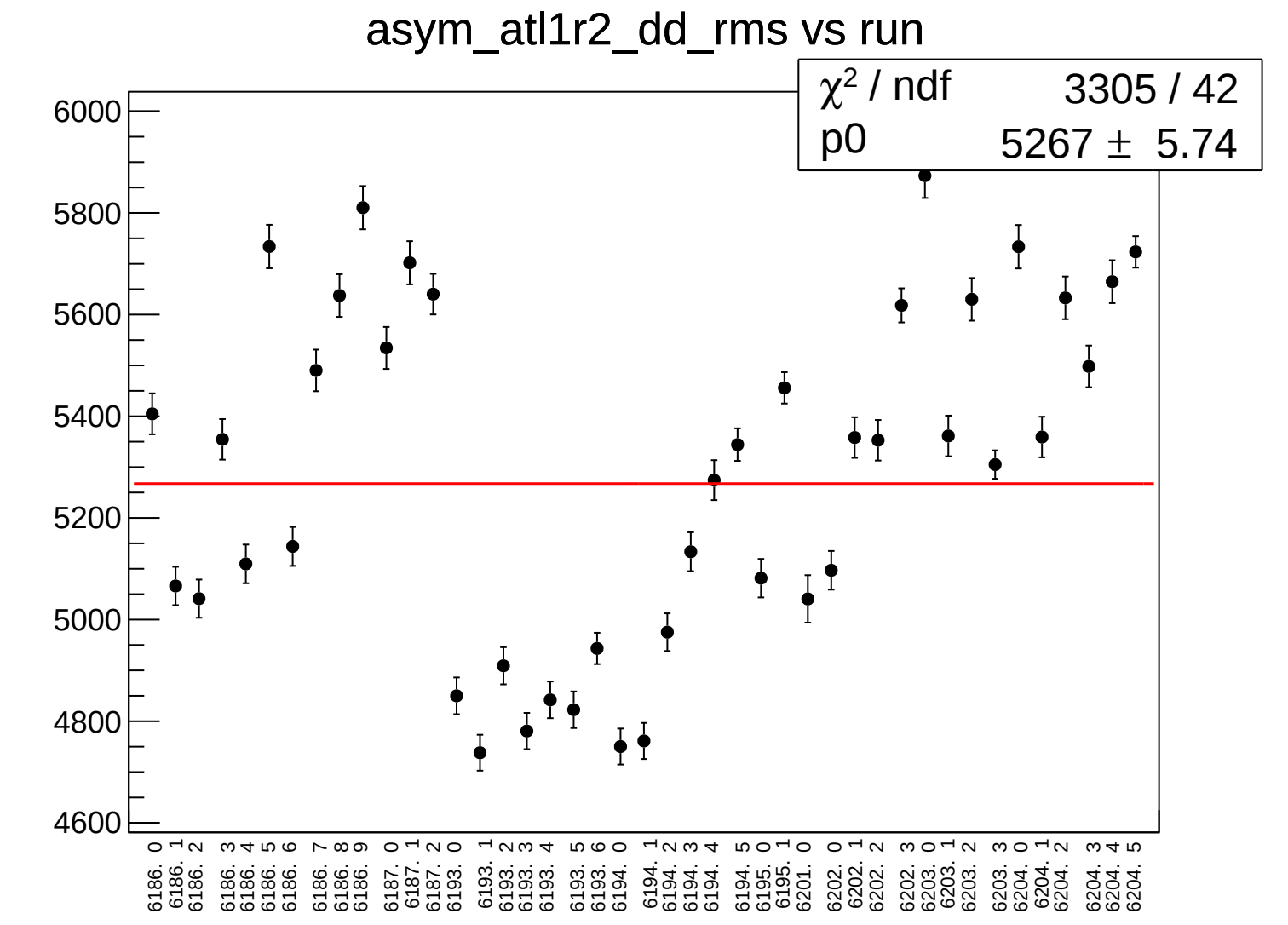
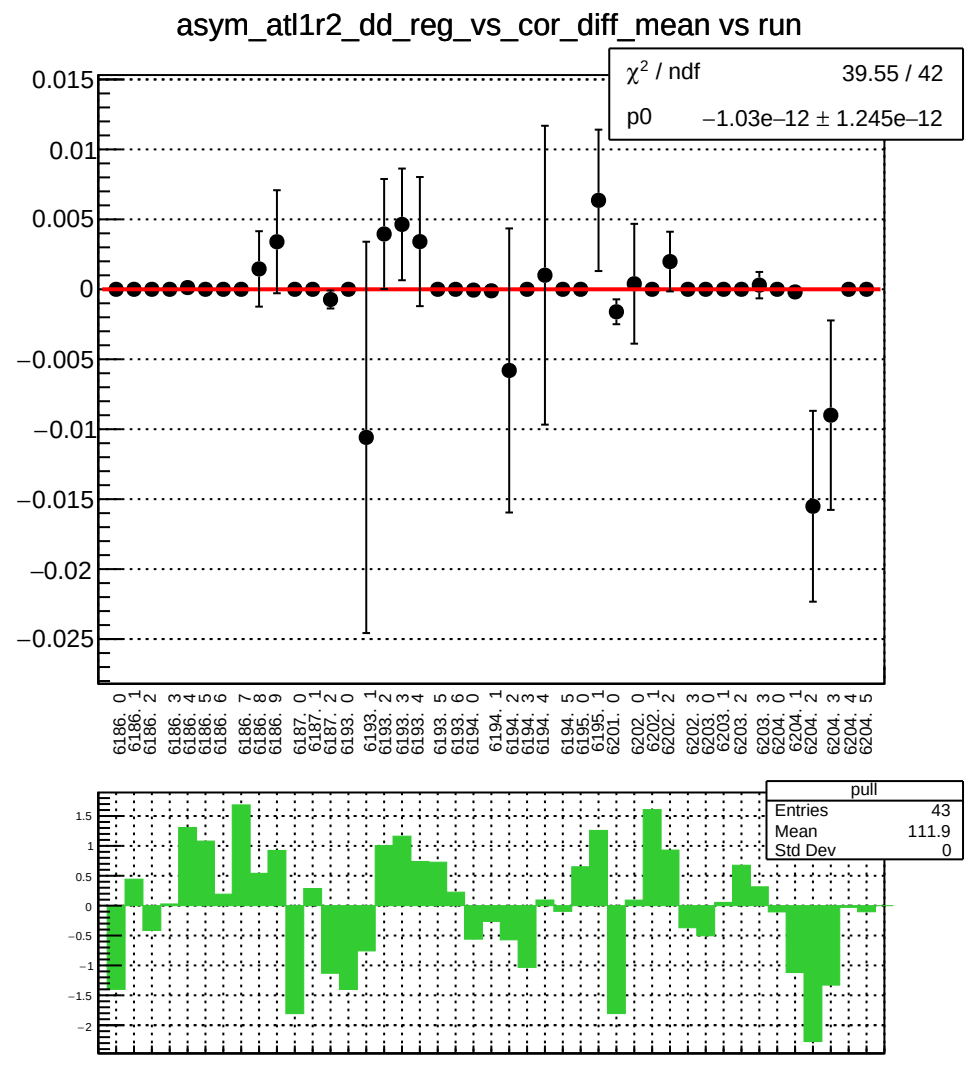
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 187.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.006943
Std Dev 1.174
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

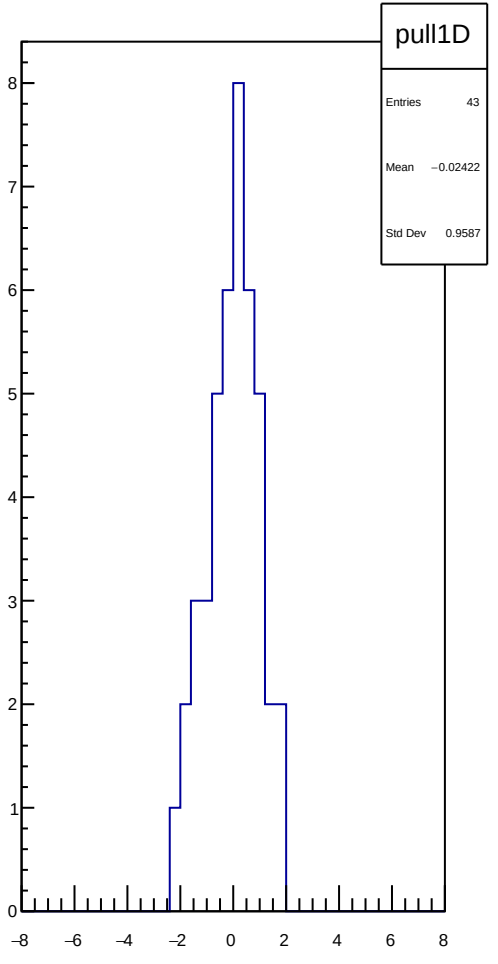

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4188 / 42
p0 5076 ± 5.535
5800
5600
5400
5200
5000
4800
4600
4400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

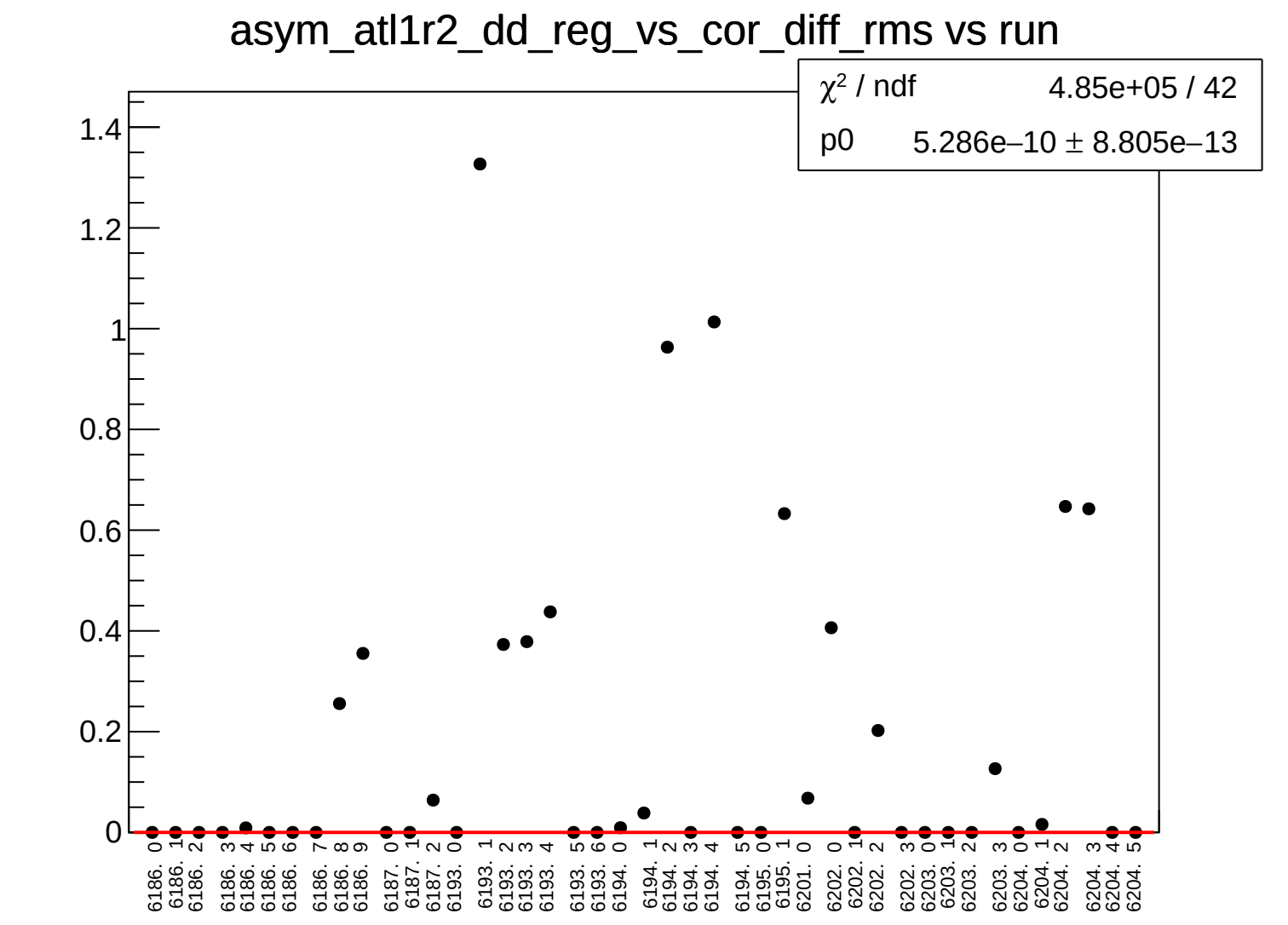

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 55.67 / 42
p0 6712 ± 8117
300
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 177
Std Dev 0
3
2
1
0
−1
−2

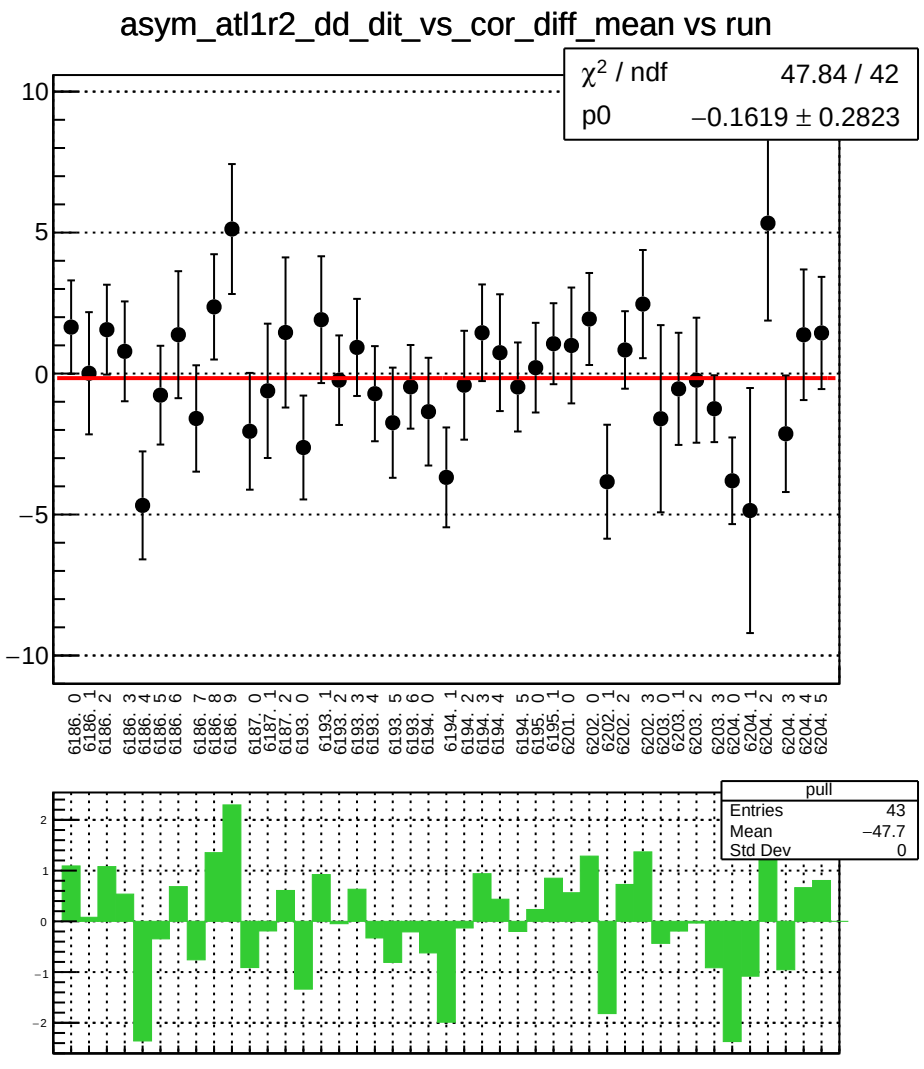

pull1D
Entries 43
Mean 0.00423
Std Dev 1.138
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

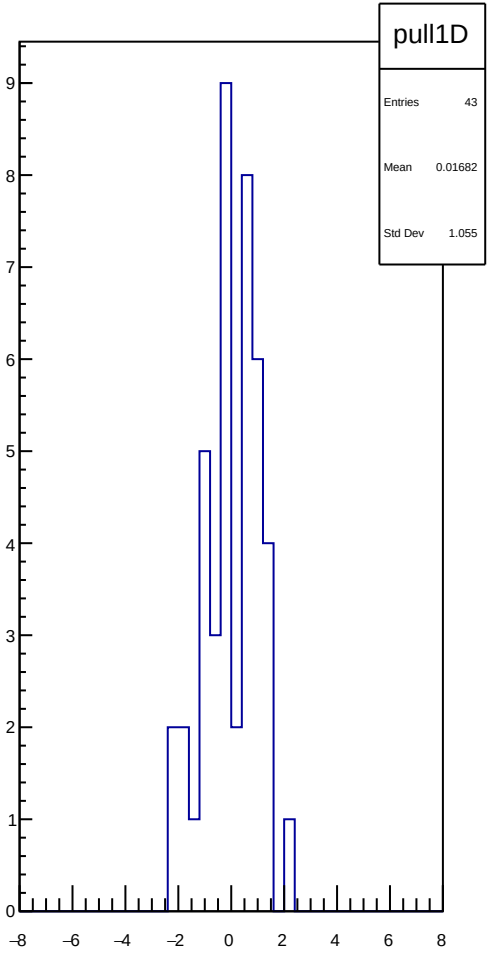

asym_atl1r2_dd_rms vs run
χ² / ndf 3305 / 42
p0 5267 ± 5.74
6000
5800
5600
5400
5200
5000
4800
4600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

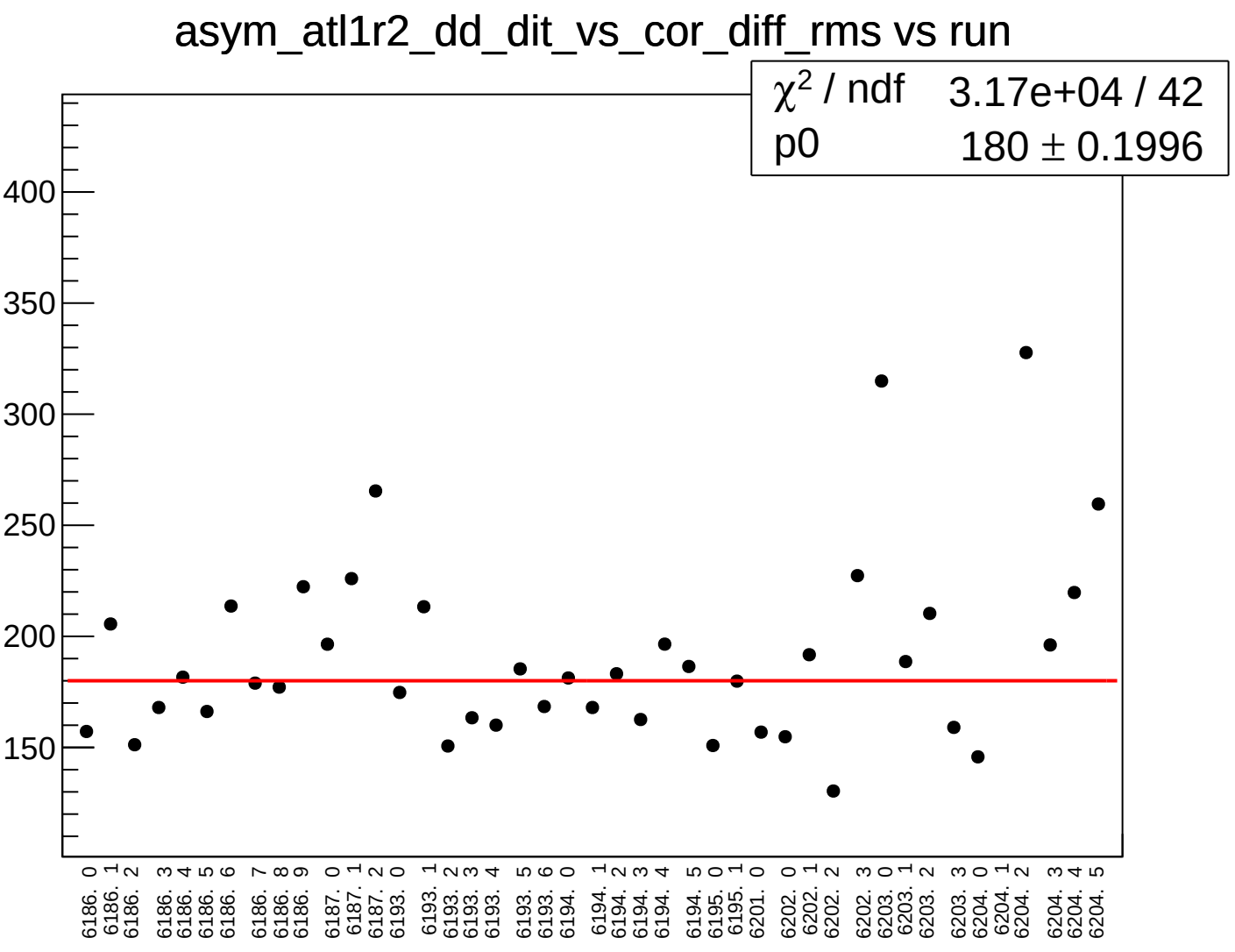

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 39.55 / 42
p0 −1.03e−12 ± 1.245e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 111.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

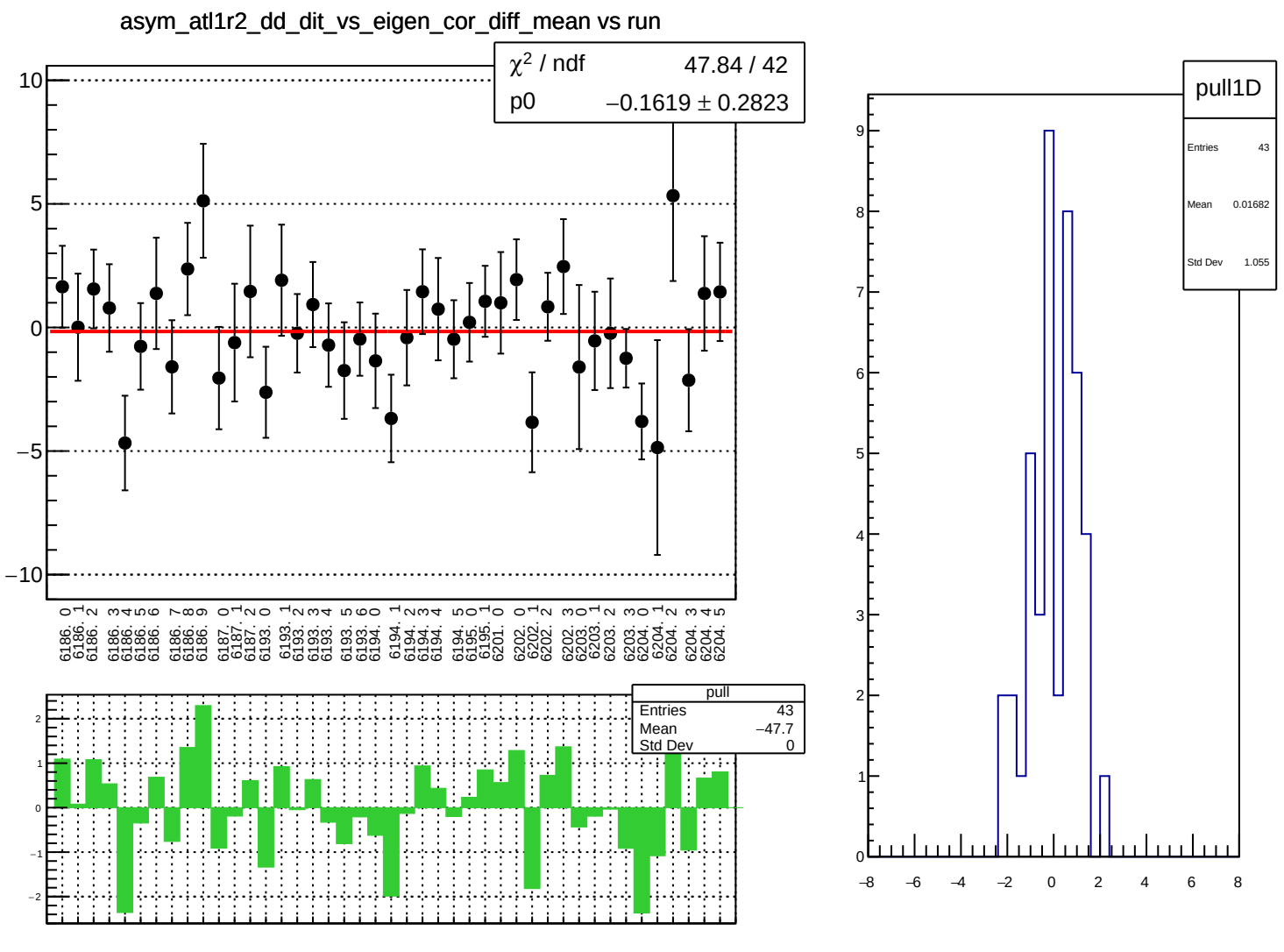

pull1D
Entries 43
Mean −0.02422
Std Dev 0.9587
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

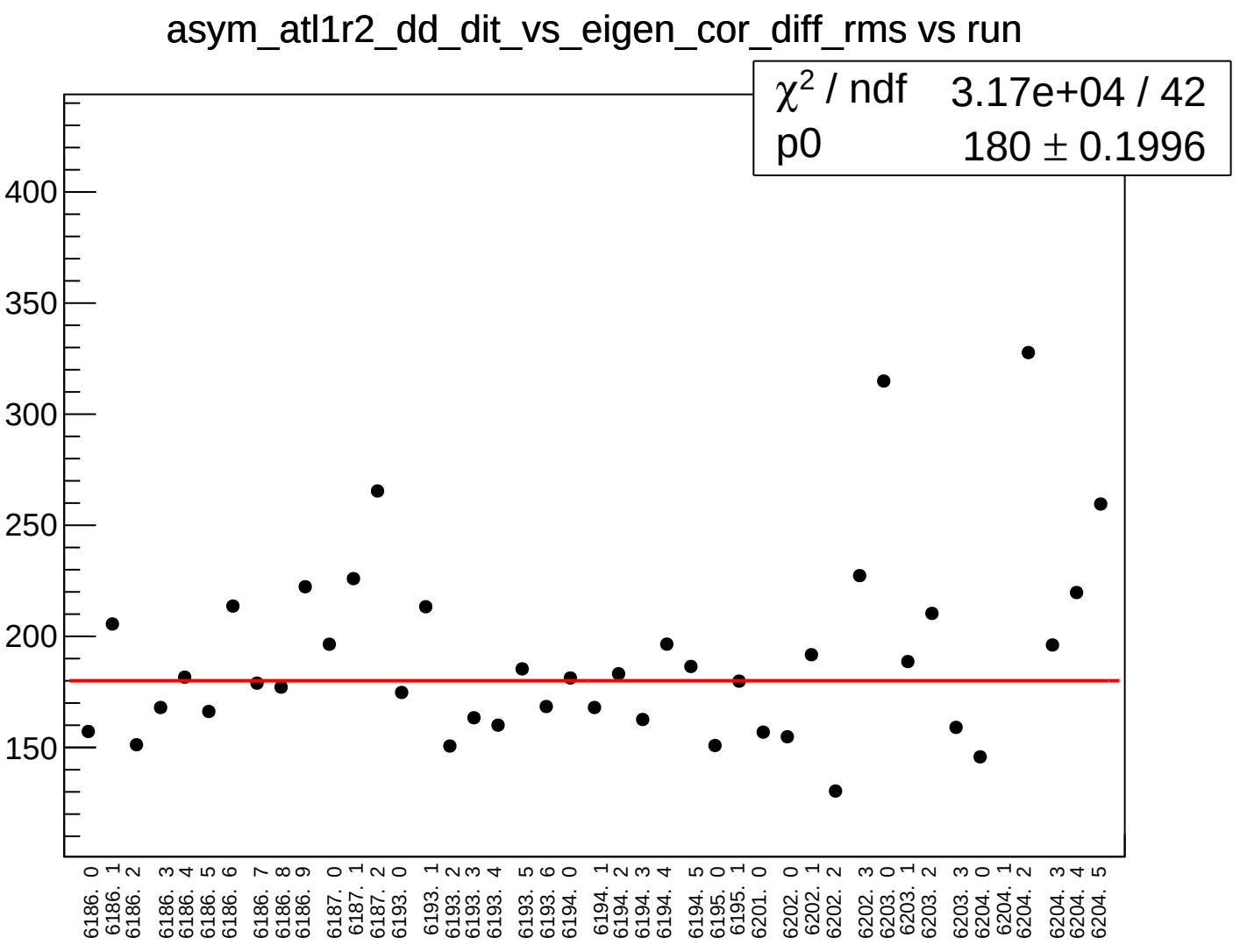

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.85e+05 / 42
p0 5.286e−10 ± 8.805e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

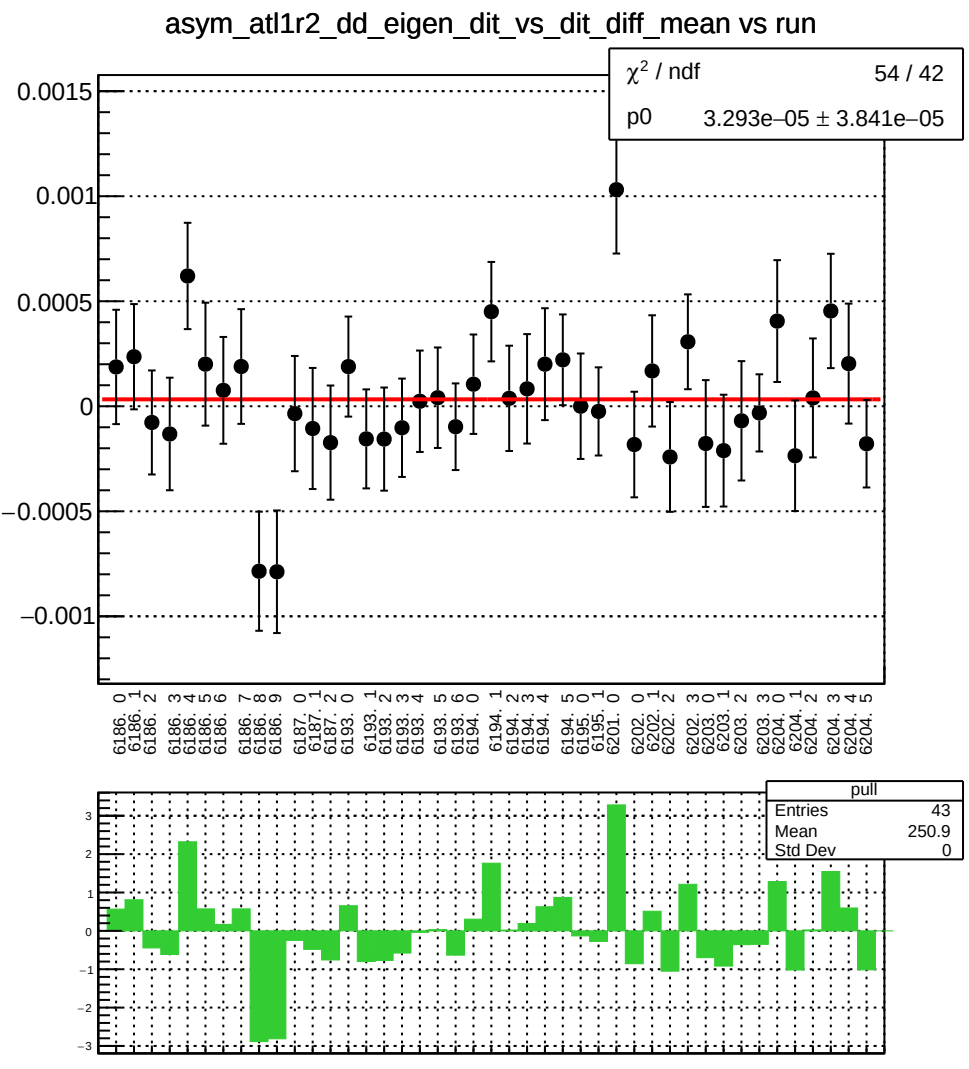

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 47.84 / 42
p0 −0.1619 ± 0.2823
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −47.7
Std Dev 0
2
1
0
−1
−2

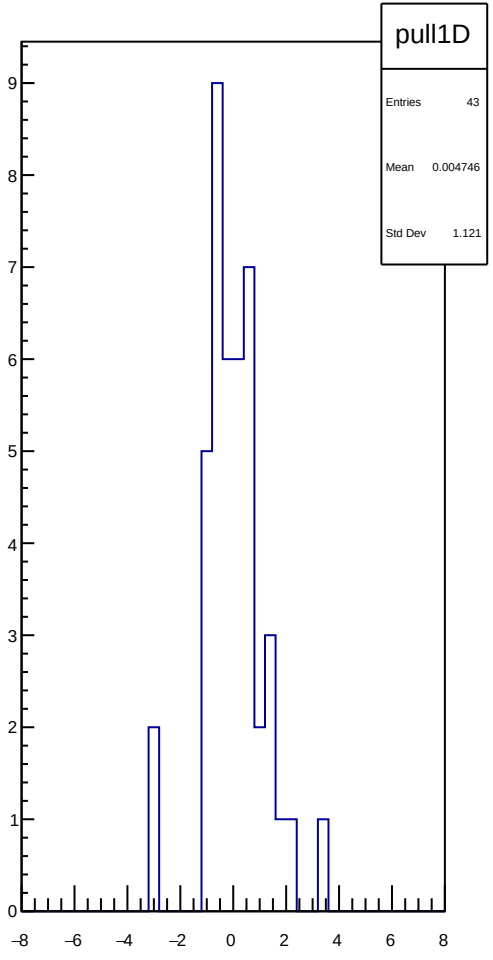

pull1D
Entries 43
Mean 0.01682
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

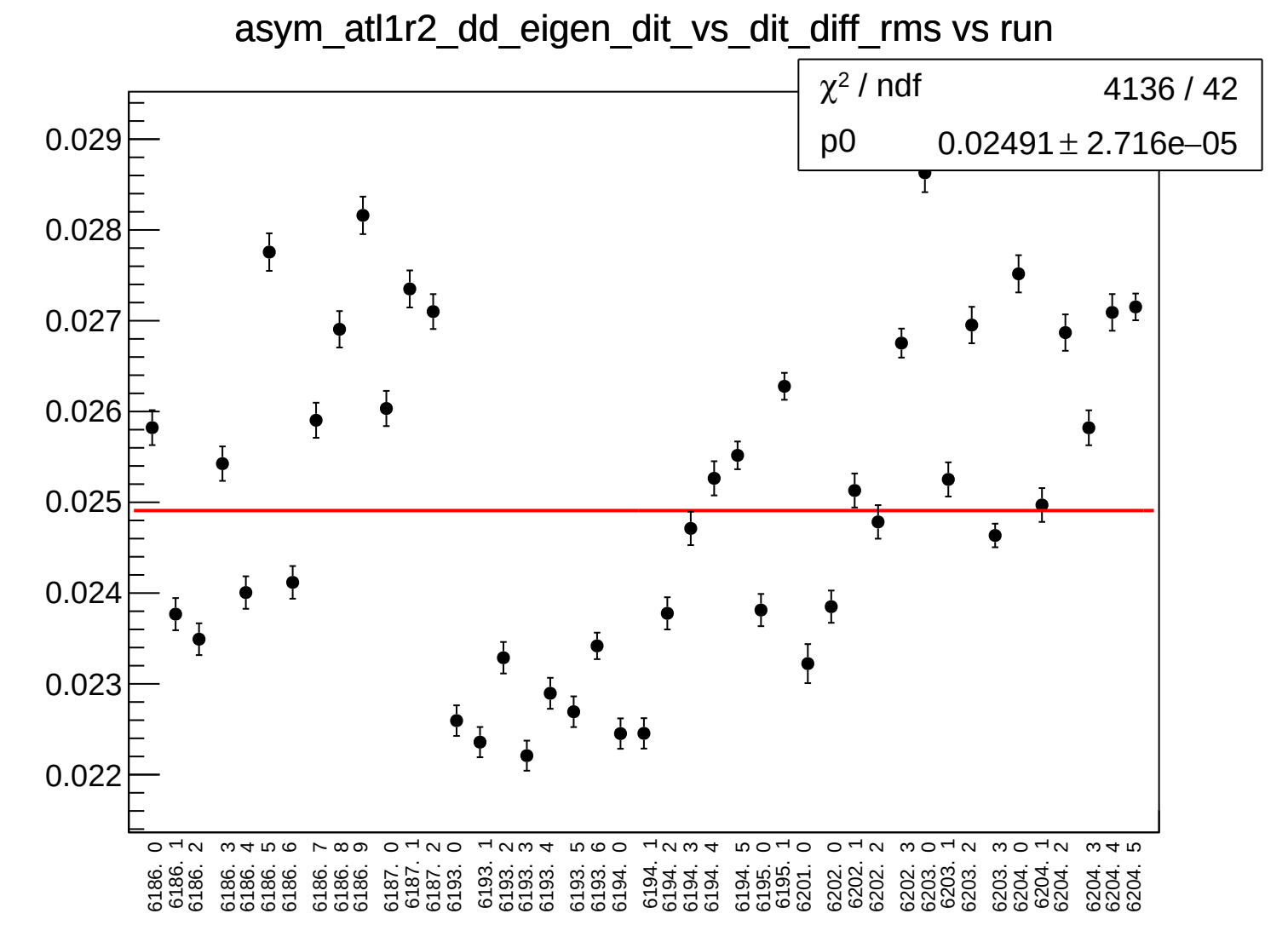

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.17e+04 / 42
p0 180 ± 0.1996
400
350
300
250
200
150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.84 / 42
p0 −0.1619 ± 0.2823
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −47.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01682
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

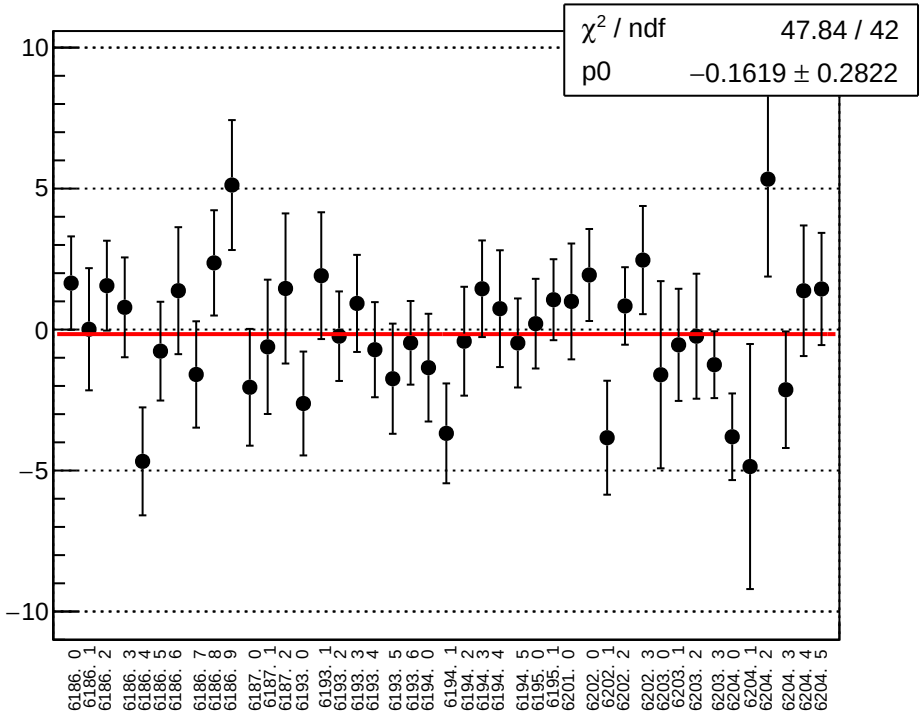

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.17e+04 / 42
p0 180 ± 0.1996
400
350
300
250
200
150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

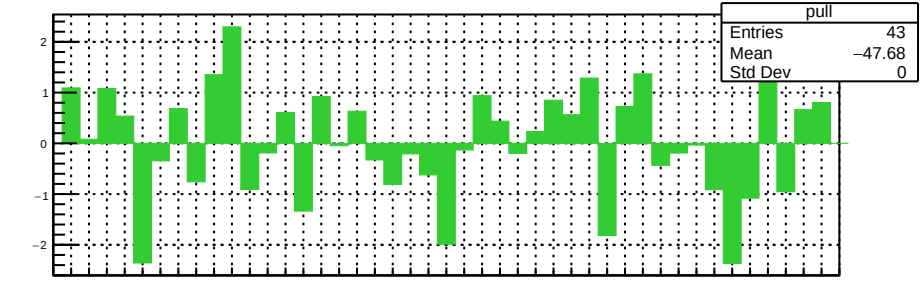

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 54 / 42
p0 3.293e−05 ± 3.841e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 250.9
Std Dev 0
3
2
1
0
−1
−2
−3

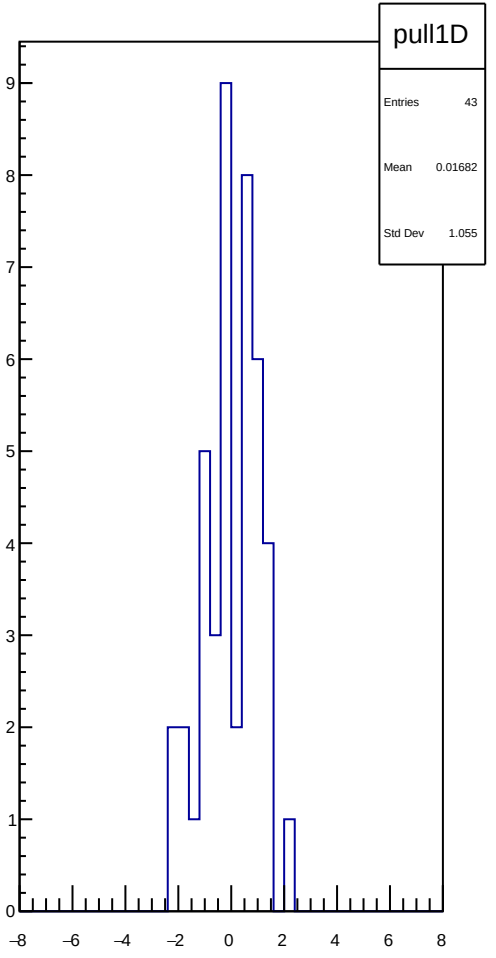

pull1D
Entries 43
Mean 0.004746
Std Dev 1.121
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

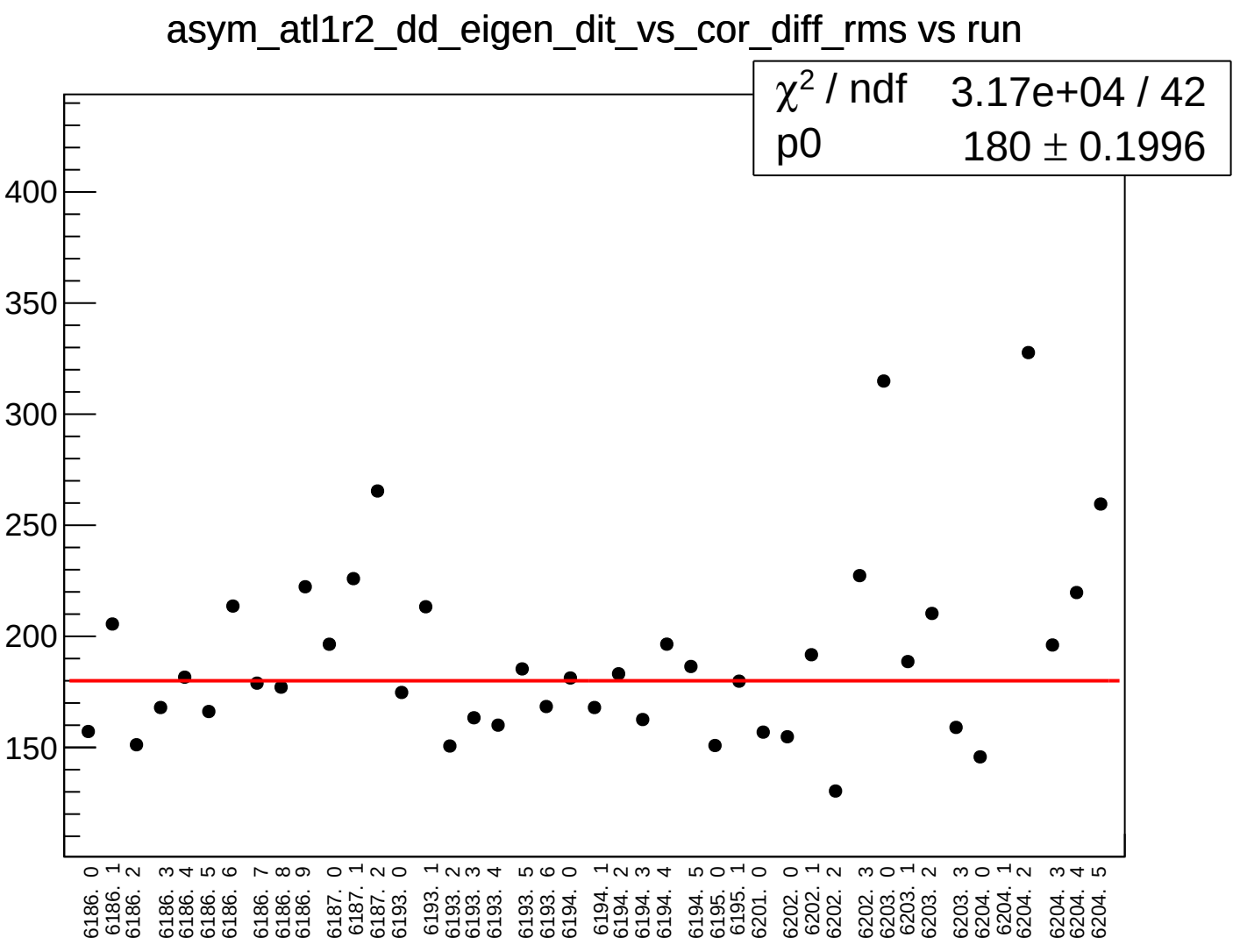

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4136 / 42
p0 0.02491 ± 2.716e−05
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run

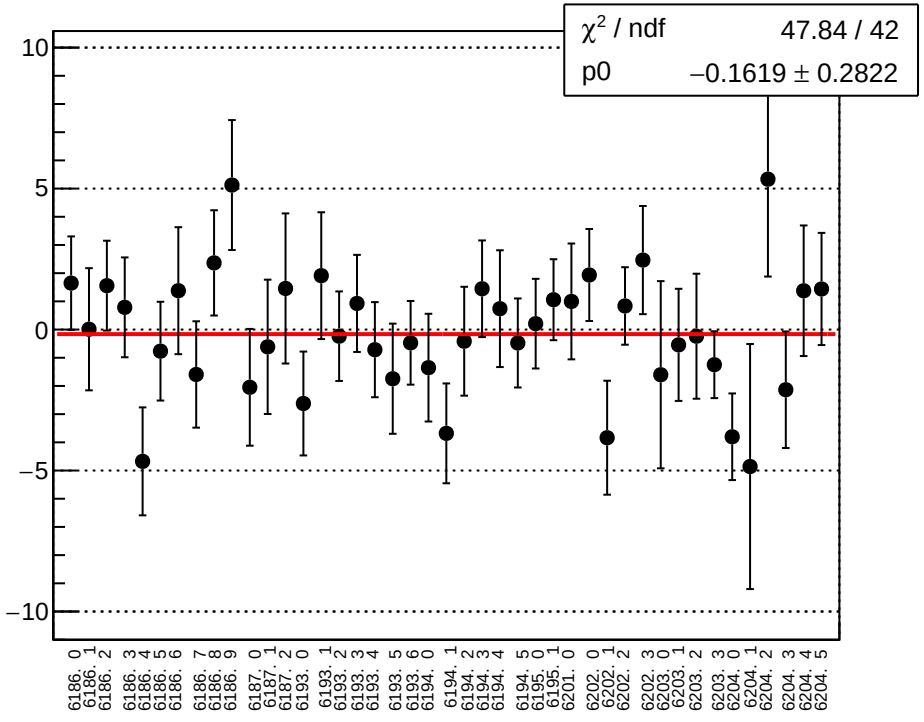


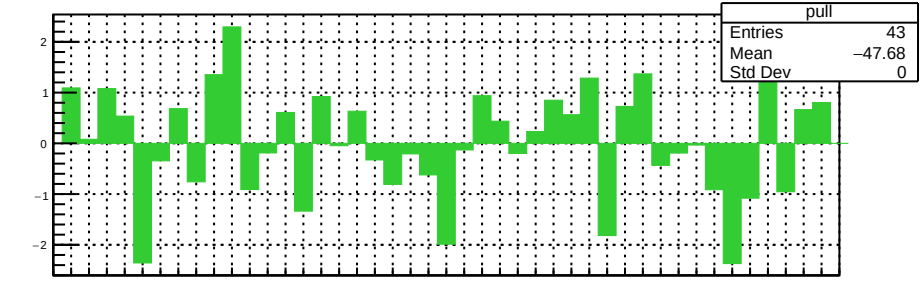


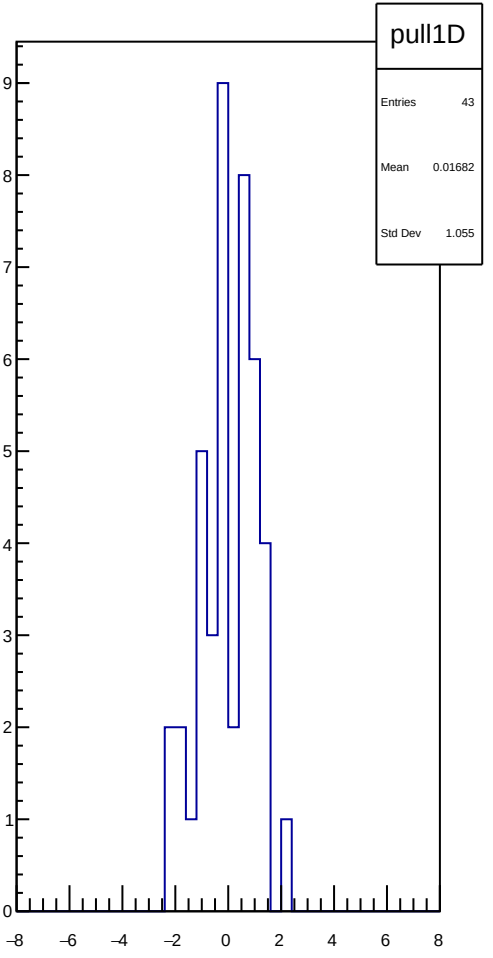


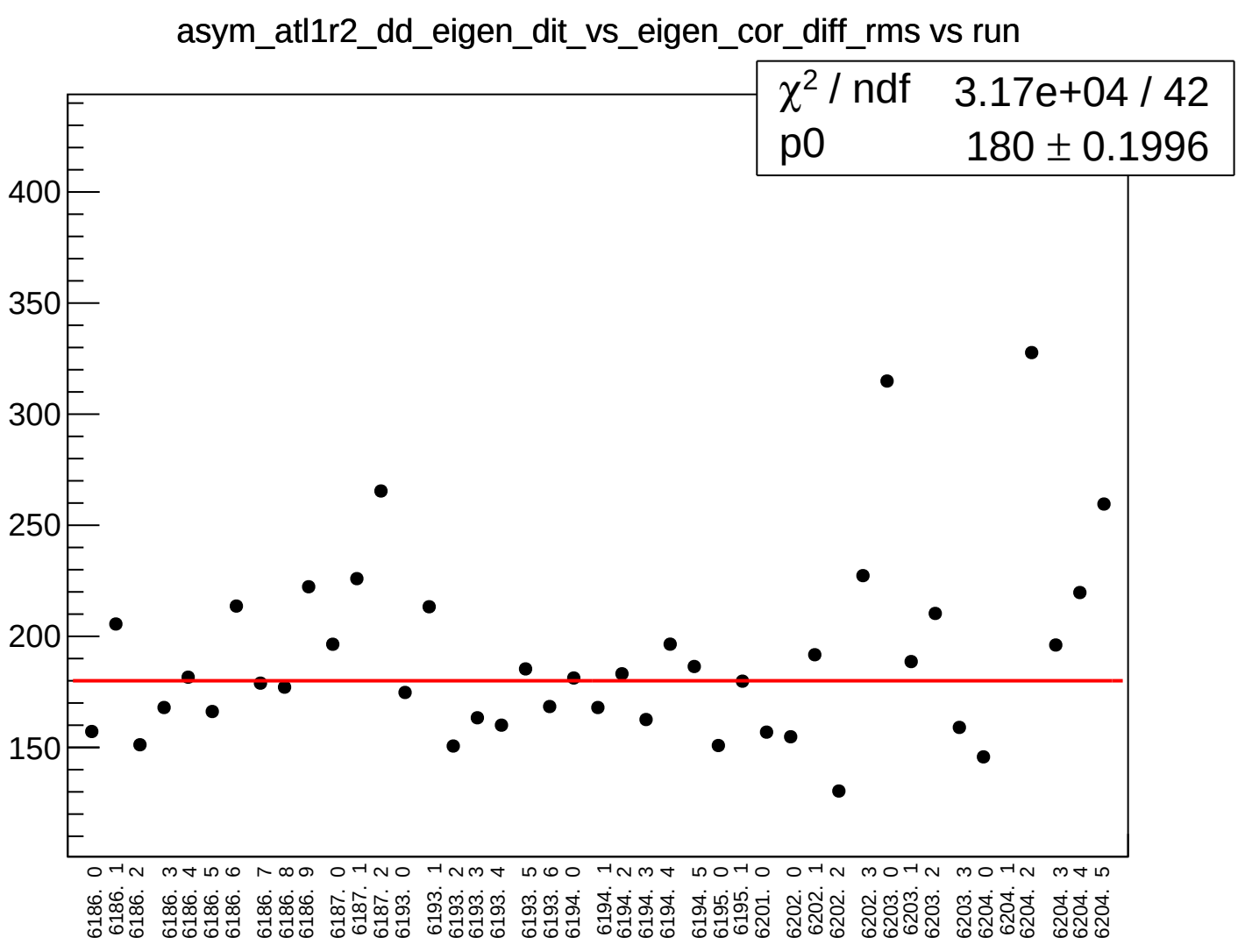

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.17e+04 / 42
p0 180 ± 0.1996
400
350
300
250
200
150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

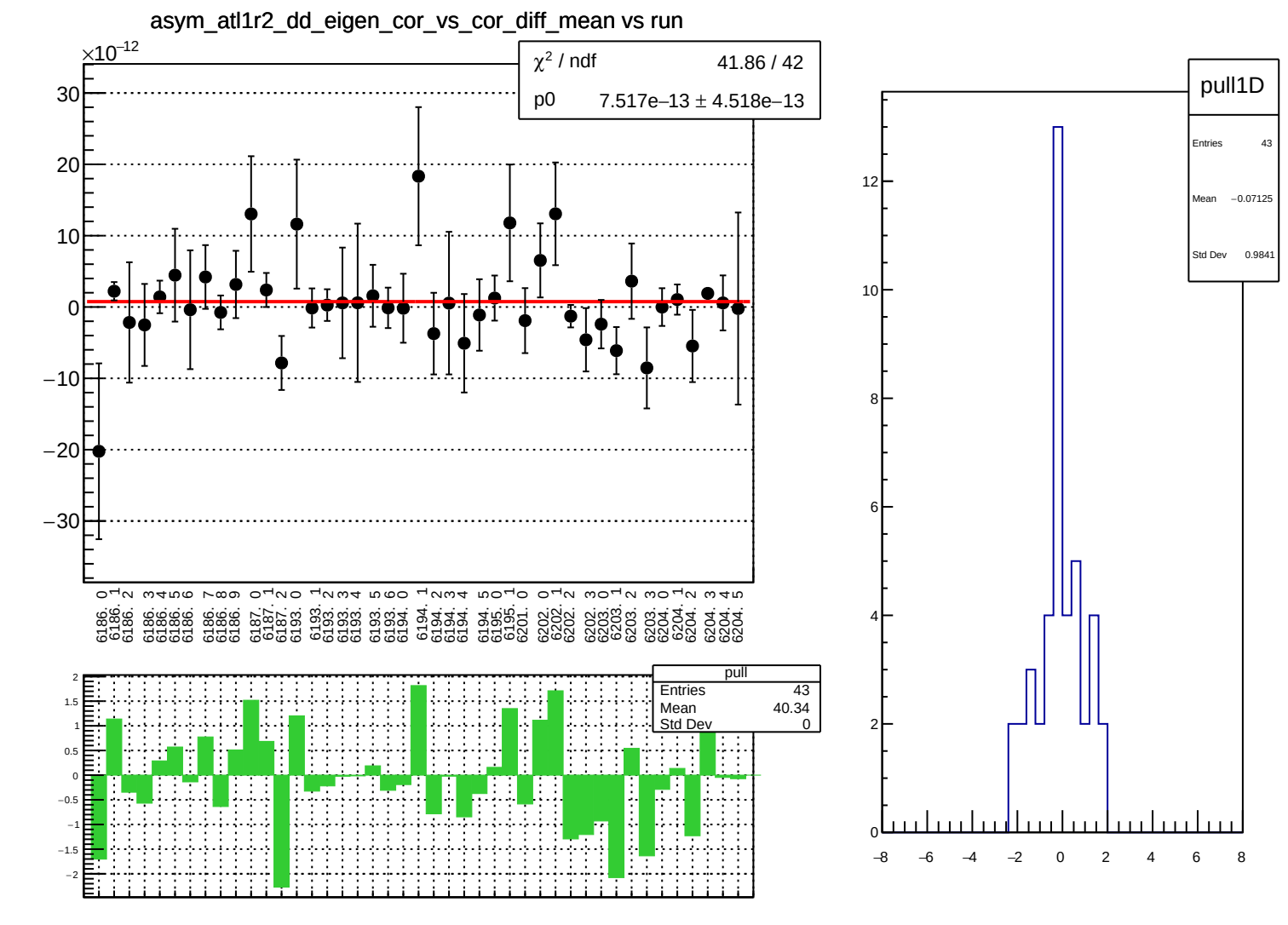
asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

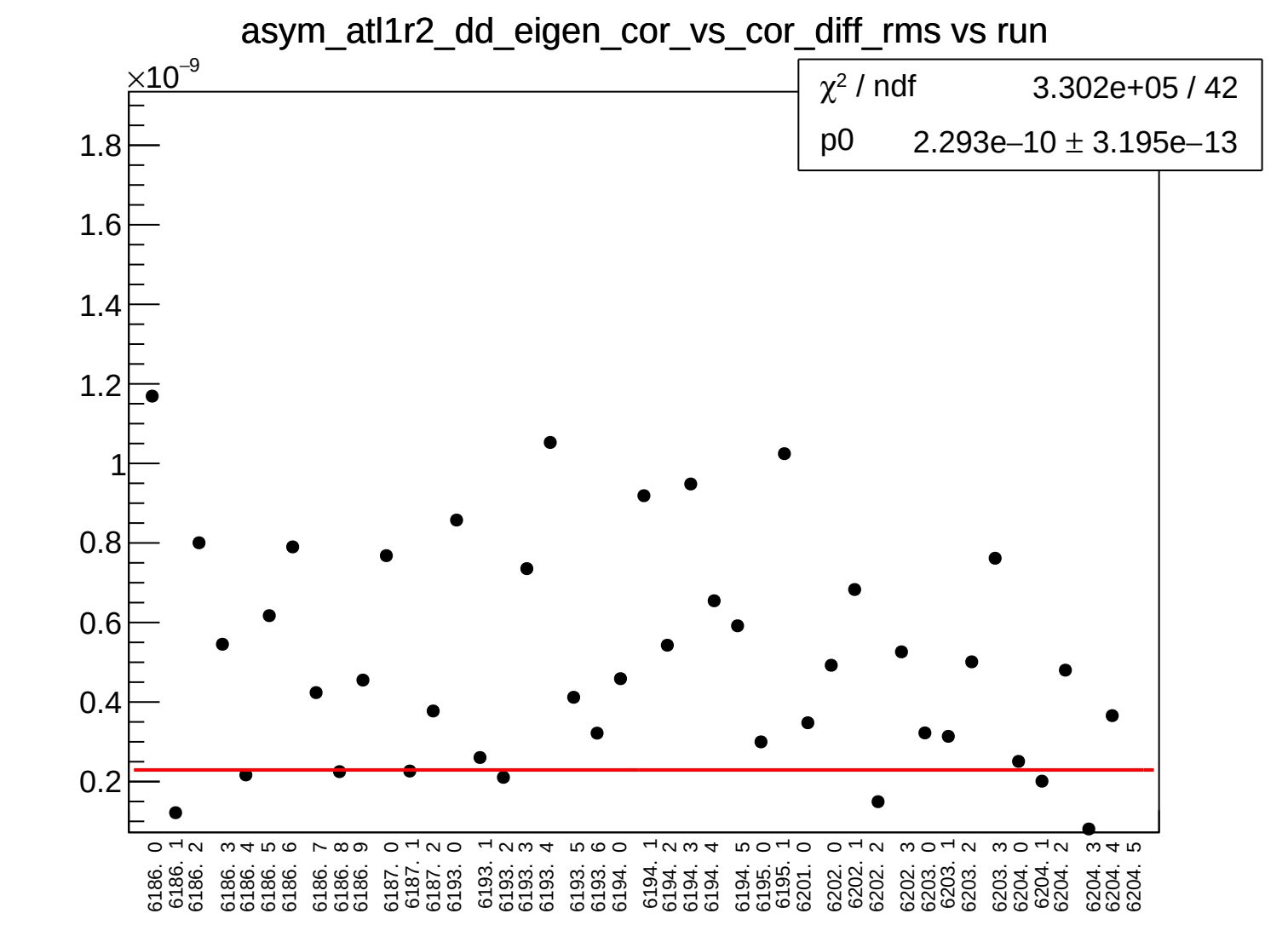


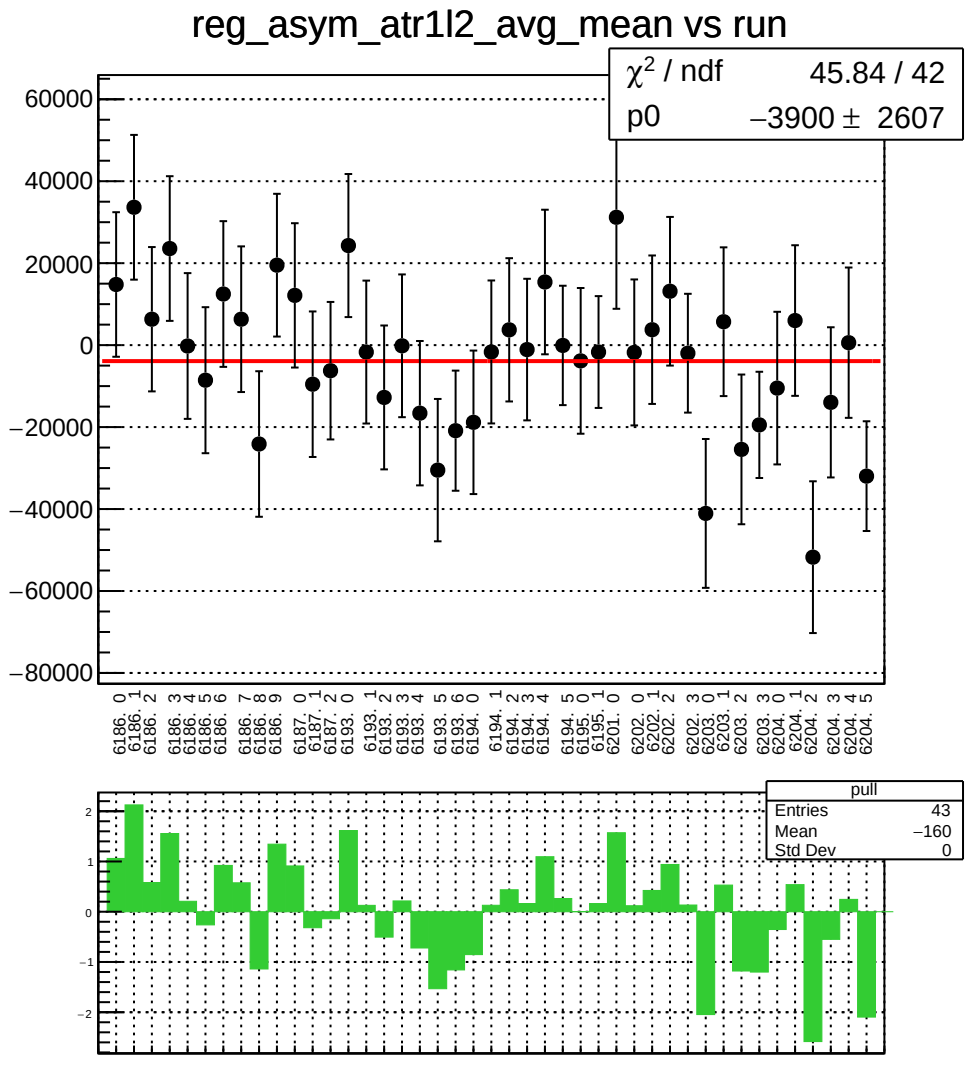


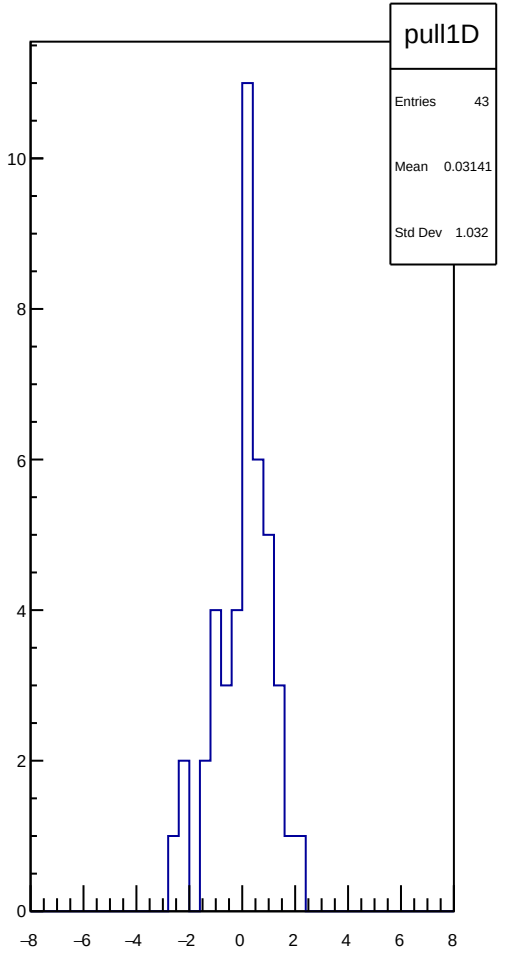


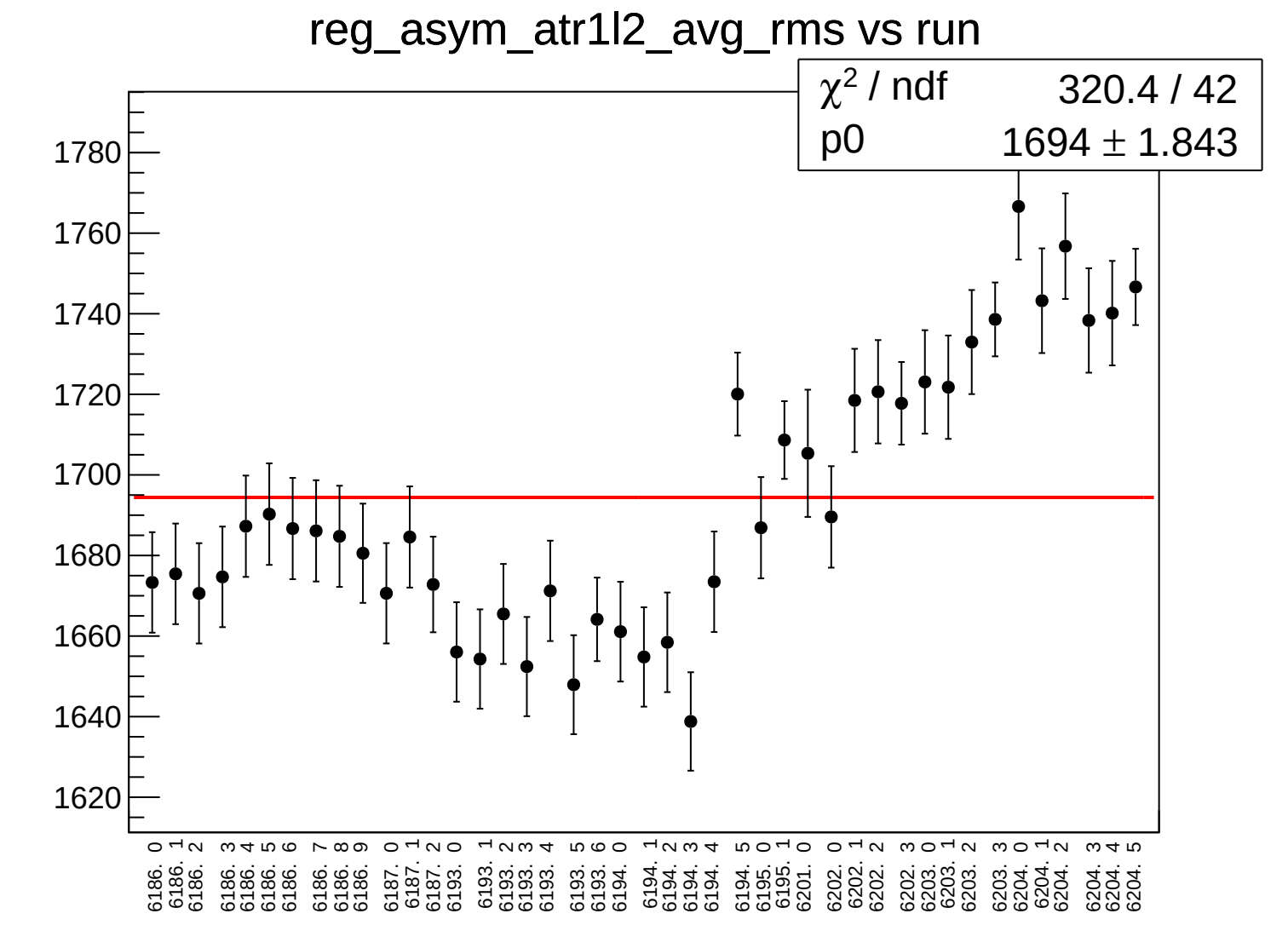

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.17e+04 / 42
p0 180 ± 0.1996
400
350
300
250
200
150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

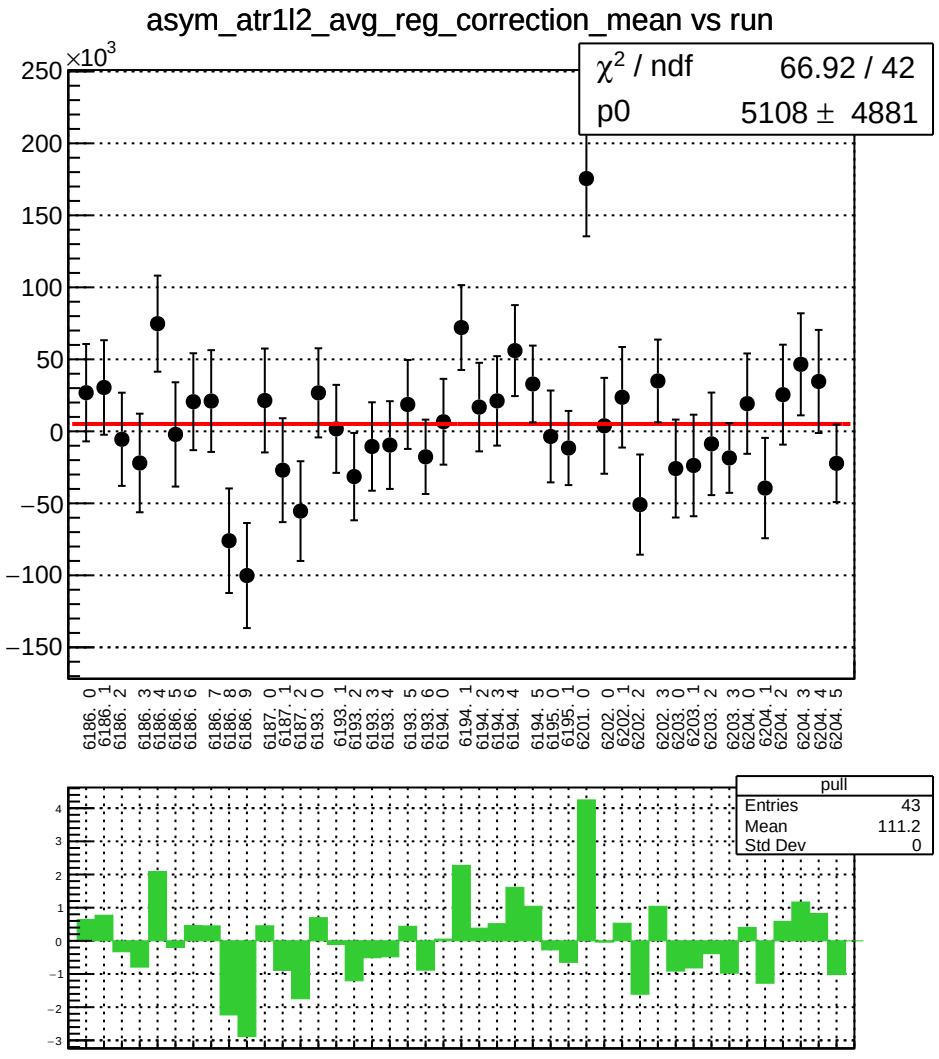

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 41.86 / 42
p0 7.517e−13 ± 4.518e−13
30
20
10
0
−10
−20
−30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 40.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.07125
Std Dev 0.9841
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

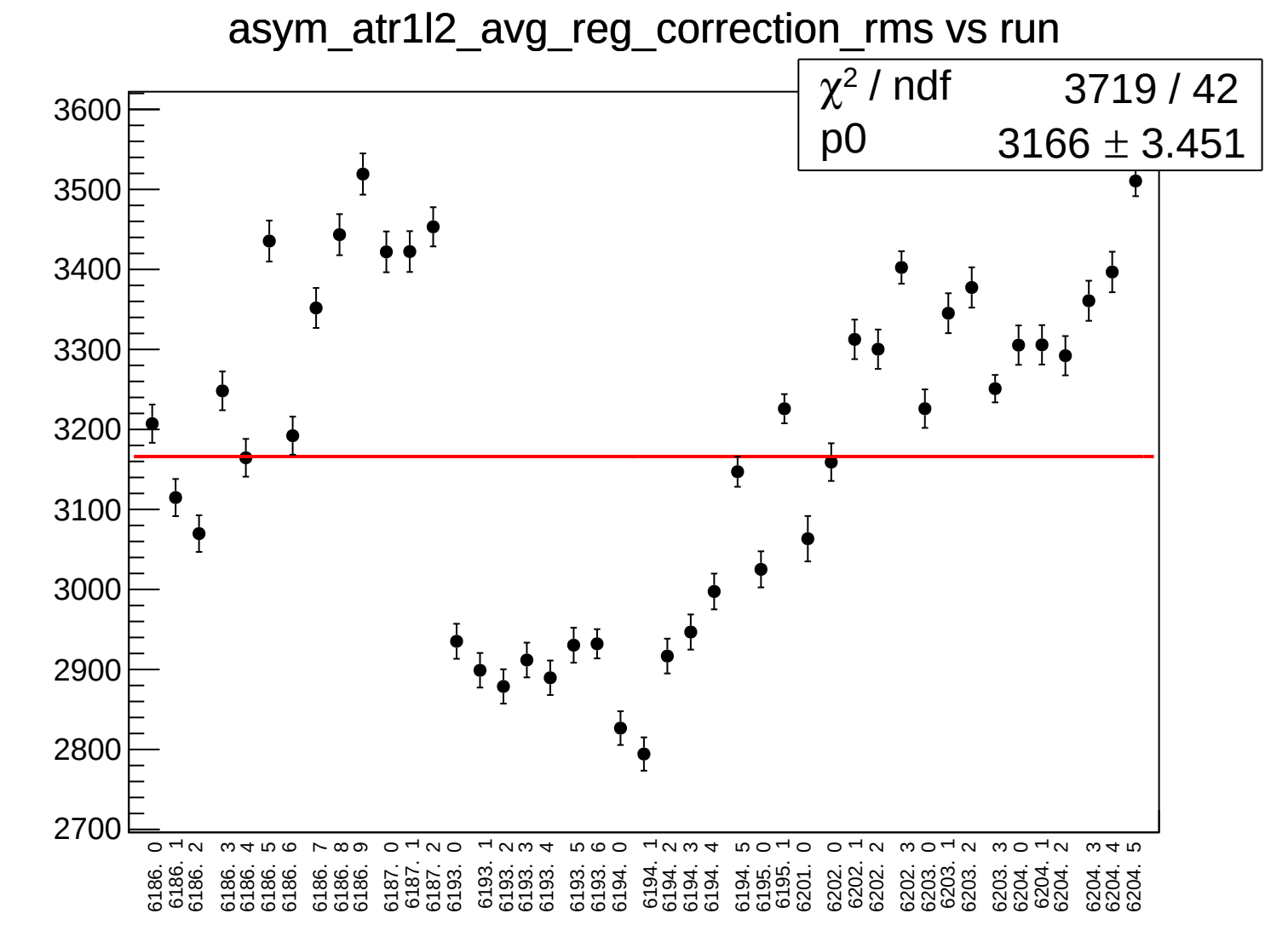

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.302e+05 / 42
p0 2.293e−10 ± 3.195e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

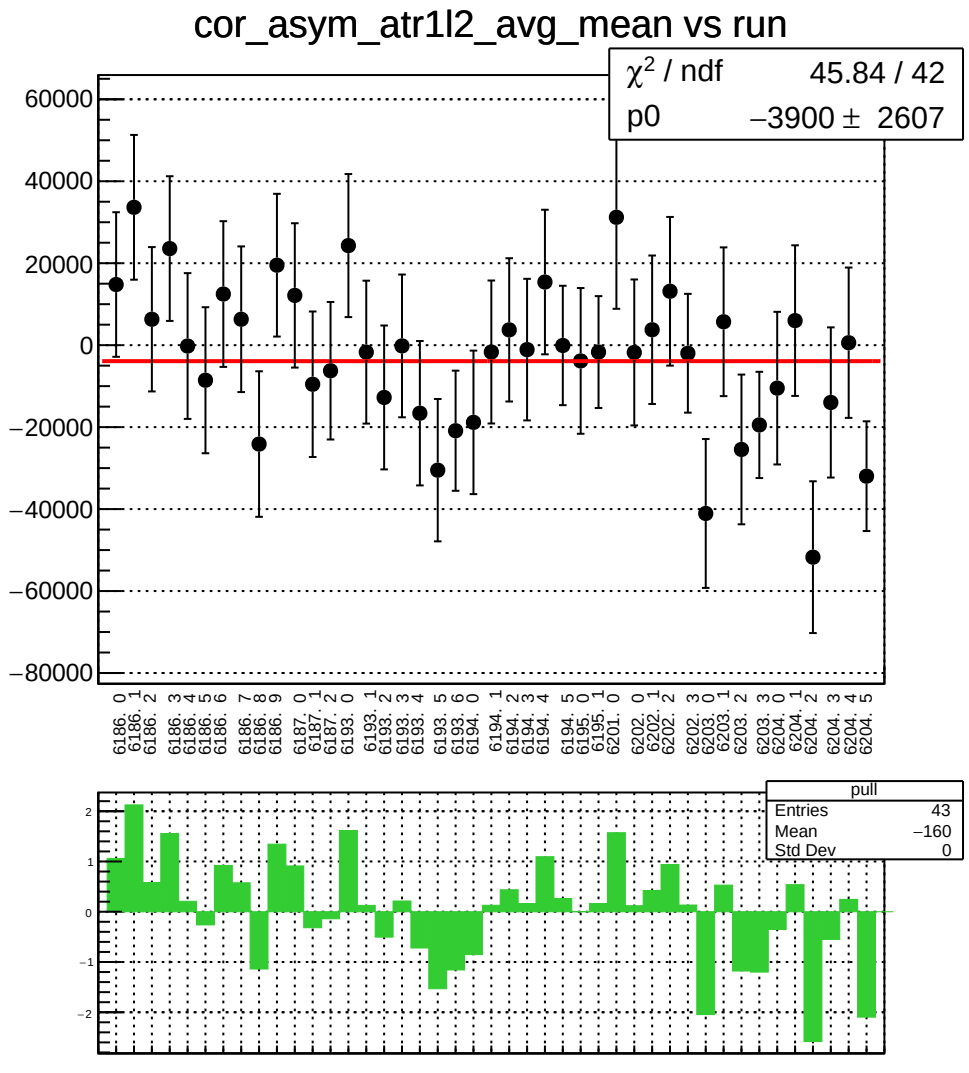

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 45.84 / 42
p0 −3900 ± 2607
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −160
Std Dev 0
2
1
0
−1
−2

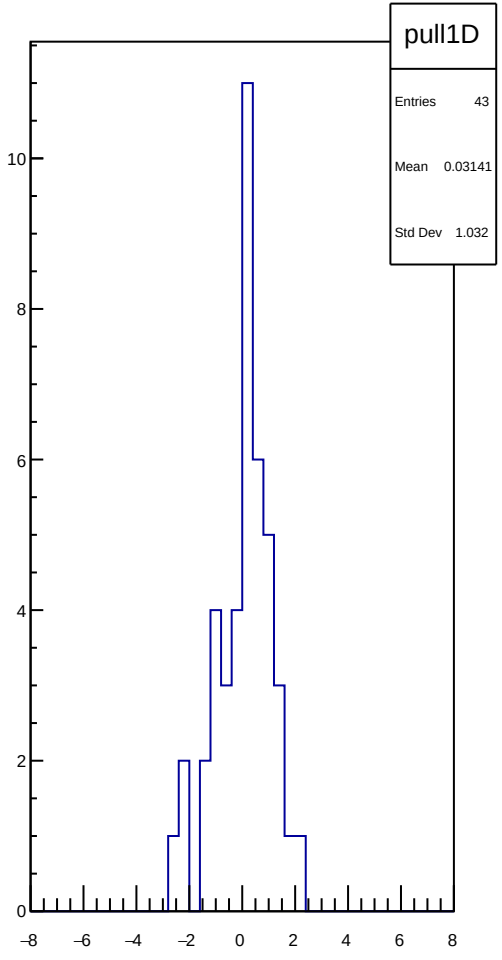

pull1D
Entries 43
Mean 0.03141
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

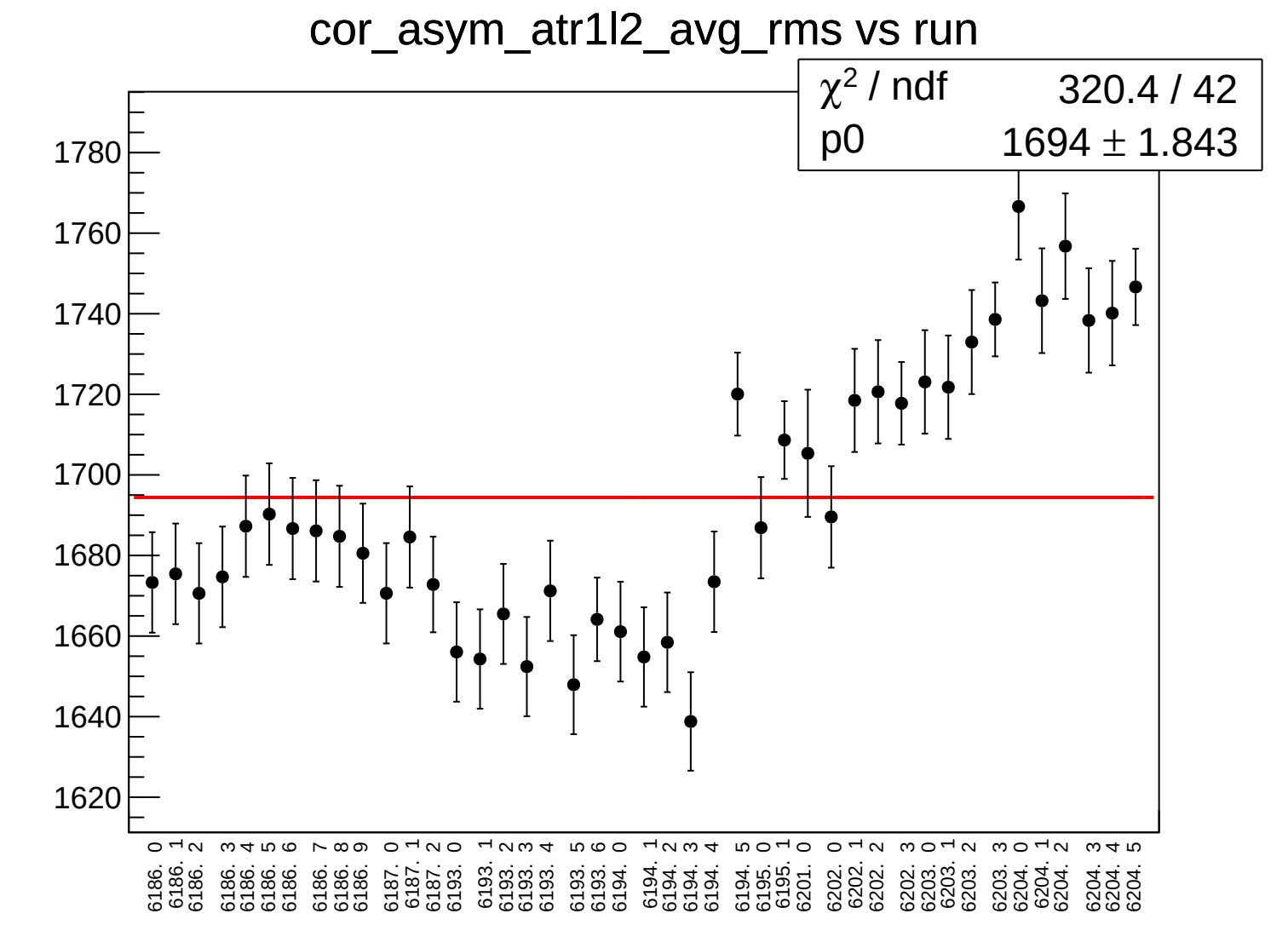

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 320.4 / 42
p0 1694 ± 1.843
1780
1760
1740
1720
1700
1680
1660
1640
1620
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

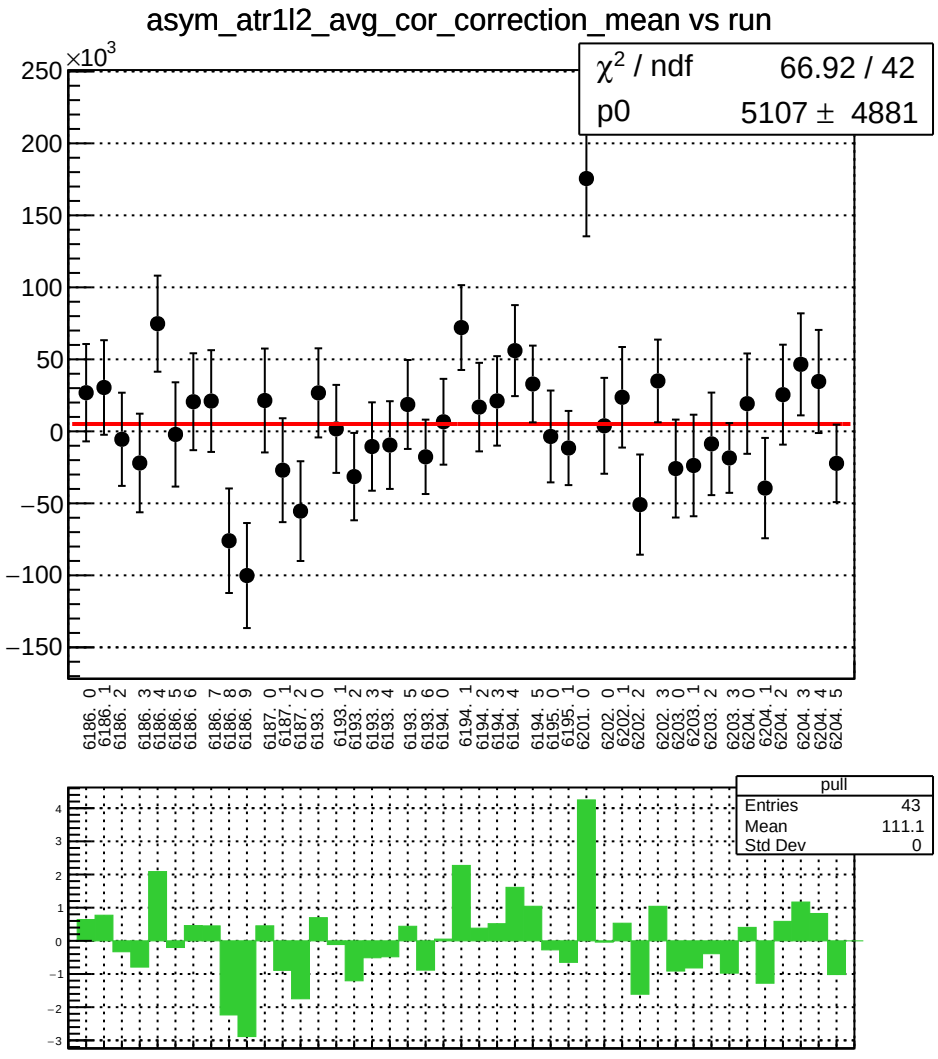

asym_atr1l2_avg_reg_correction_mean vs run
χ² / ndf 66.92 / 42
p0 5108 ± 4881
×10³
250
200
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 111.2
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01103
Std Dev 1.247
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

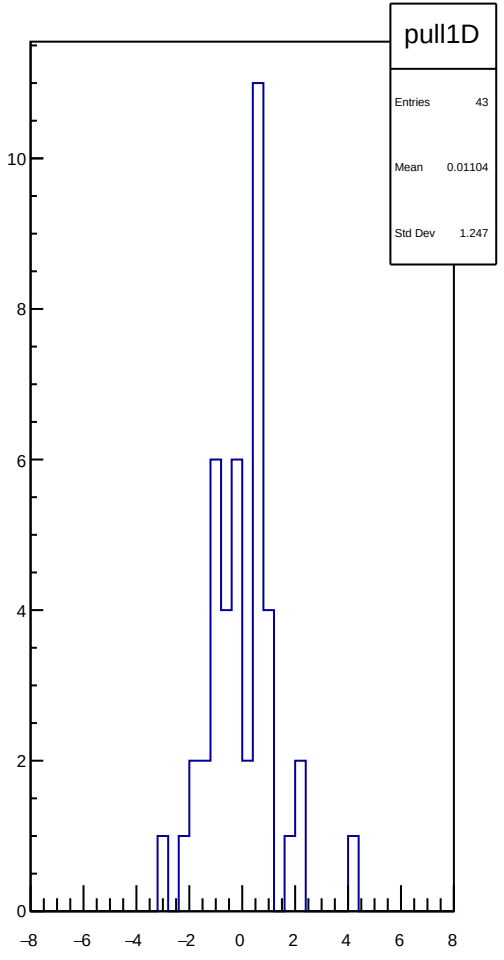

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 3719 / 42
p0 3166 ± 3.451
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

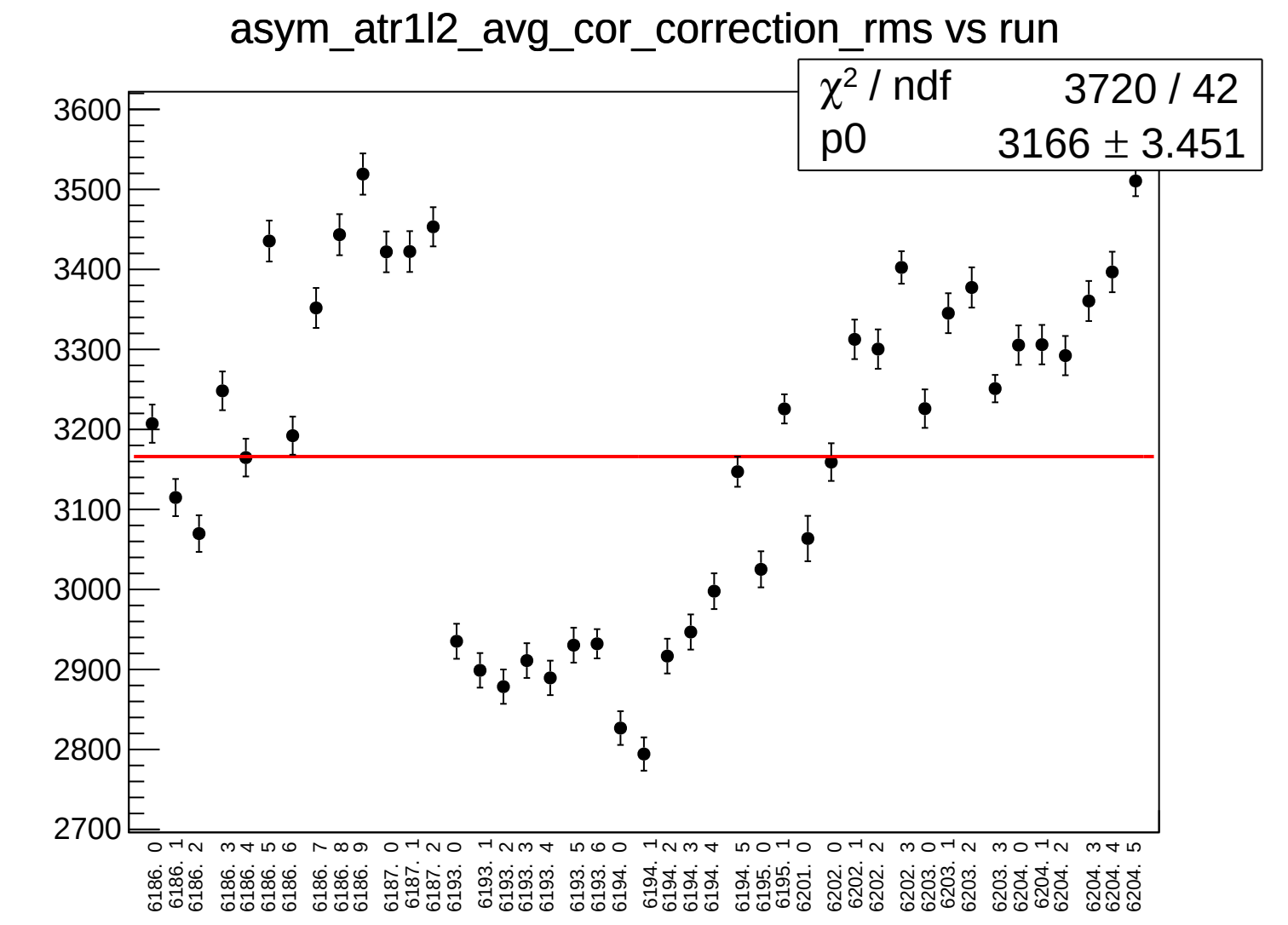

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 45.84 / 42
p0 −3900 ± 2607
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −160
Std Dev 0
2
1
0
−1
−2

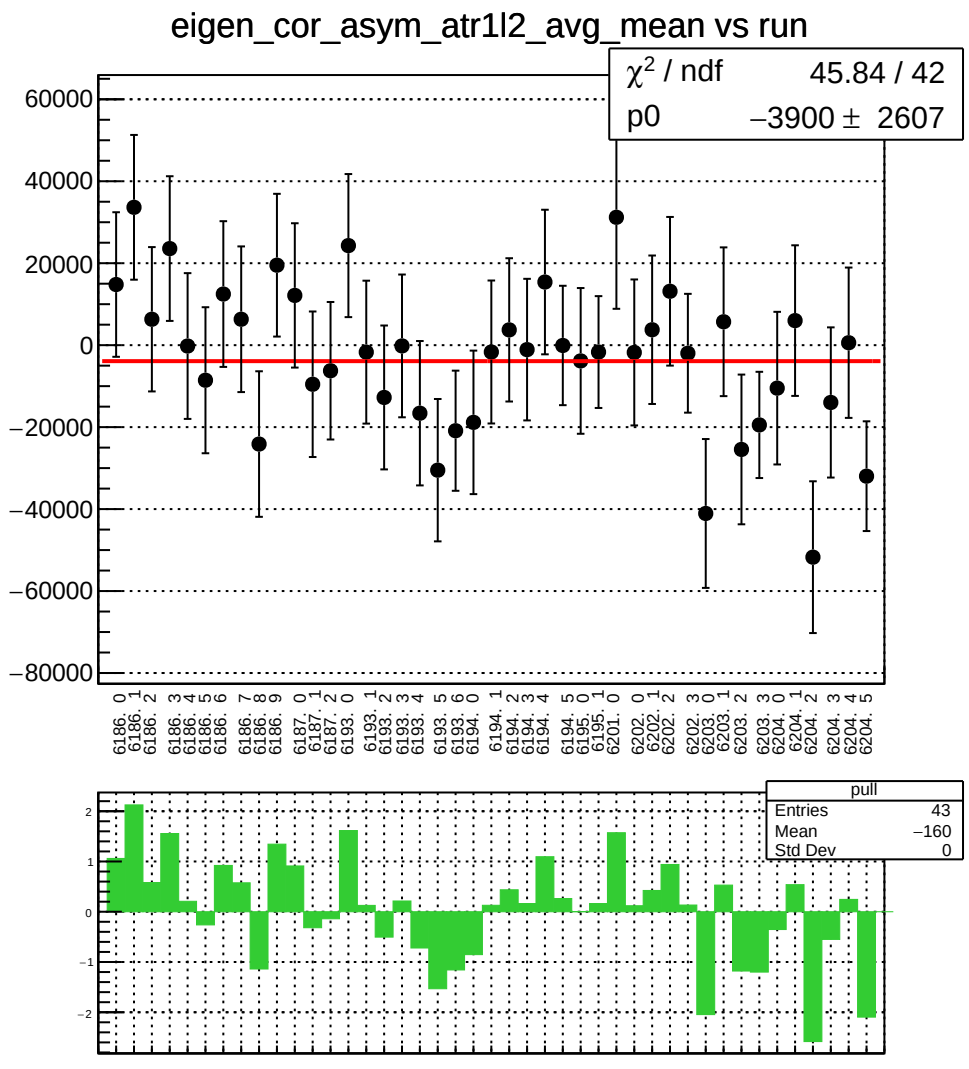

pull1D
Entries 43
Mean 0.03141
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

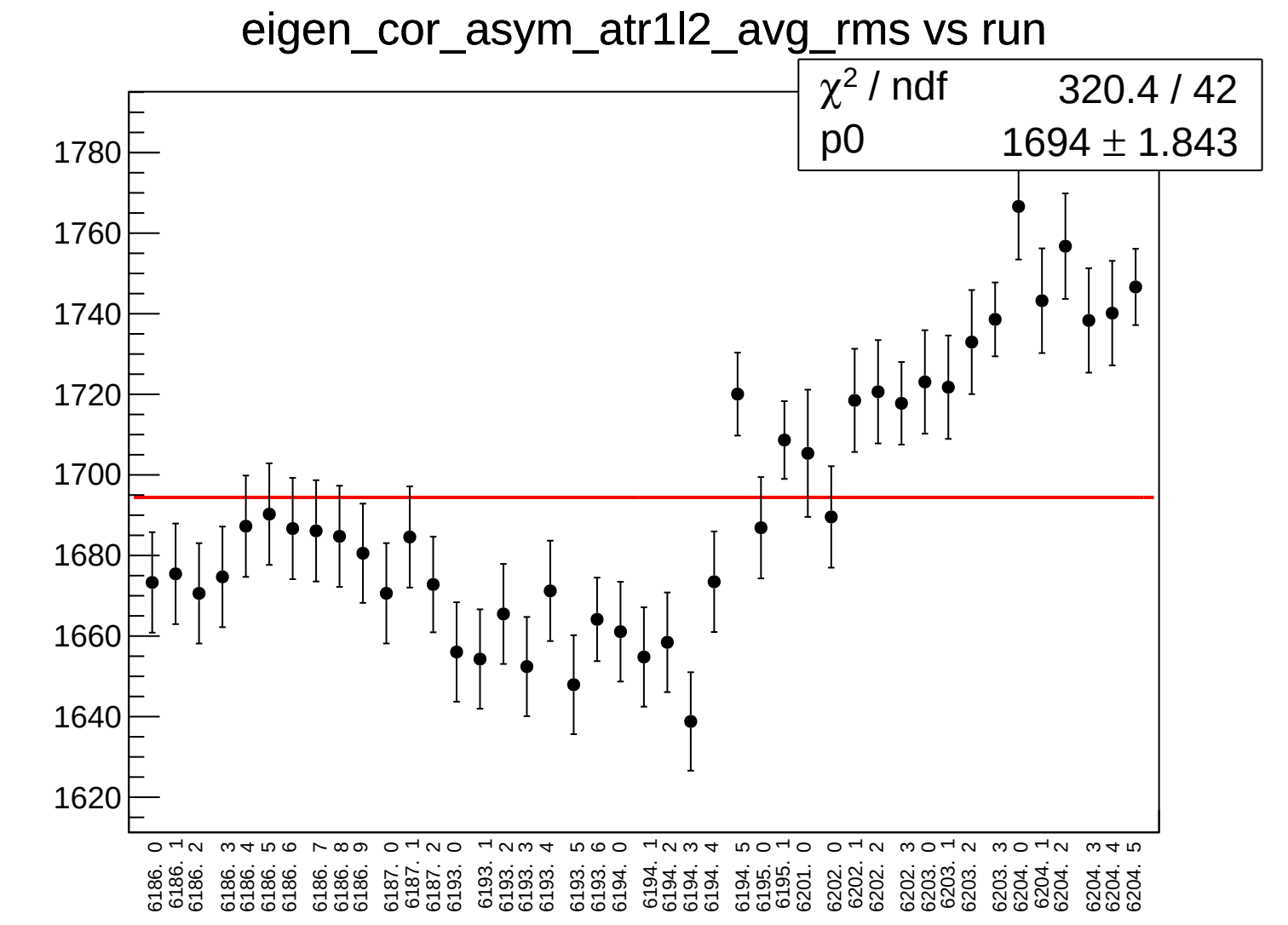

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 320.4 / 42
p0 1694 ± 1.843
1780
1760
1740
1720
1700
1680
1660
1640
1620
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

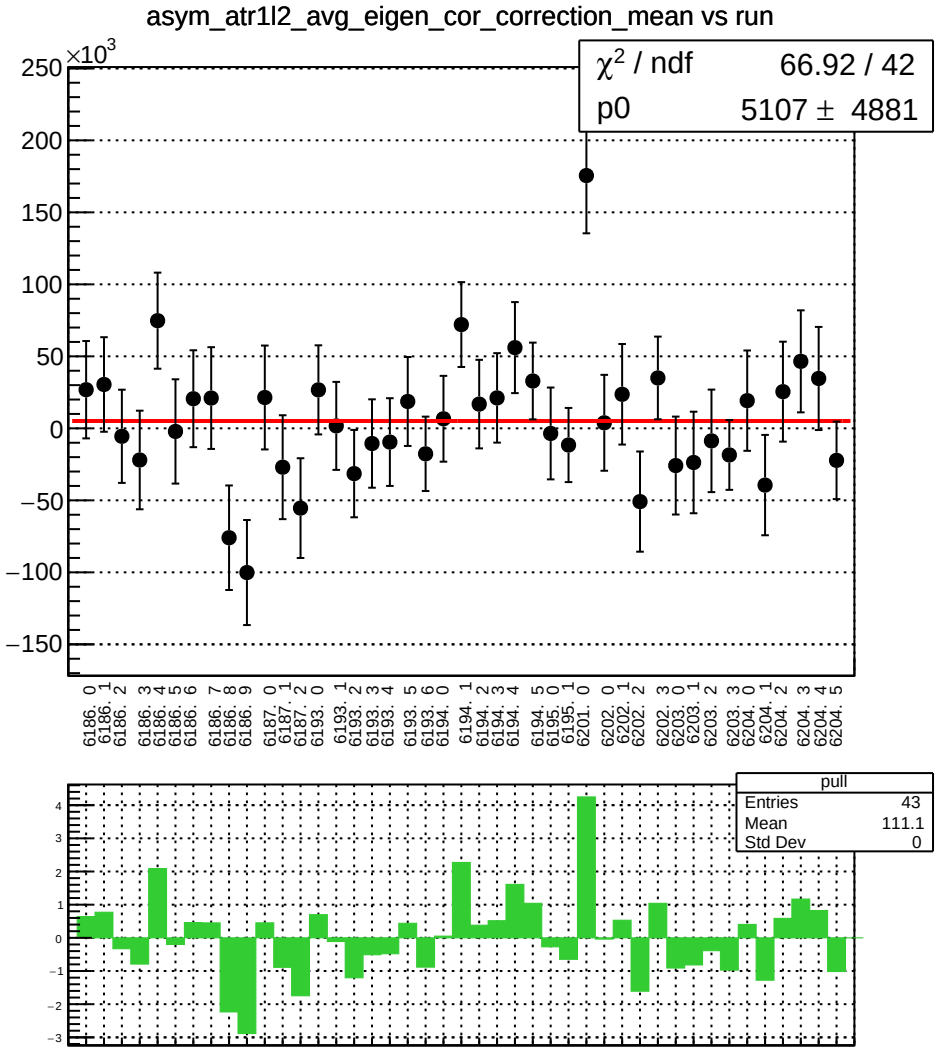

asym_atr1l2_avg_cor_correction_mean vs run
χ² / ndf 66.92 / 42
p0 5107 ± 4881
×10³
pull
Entries 43
Mean 111.1
Std Dev 0

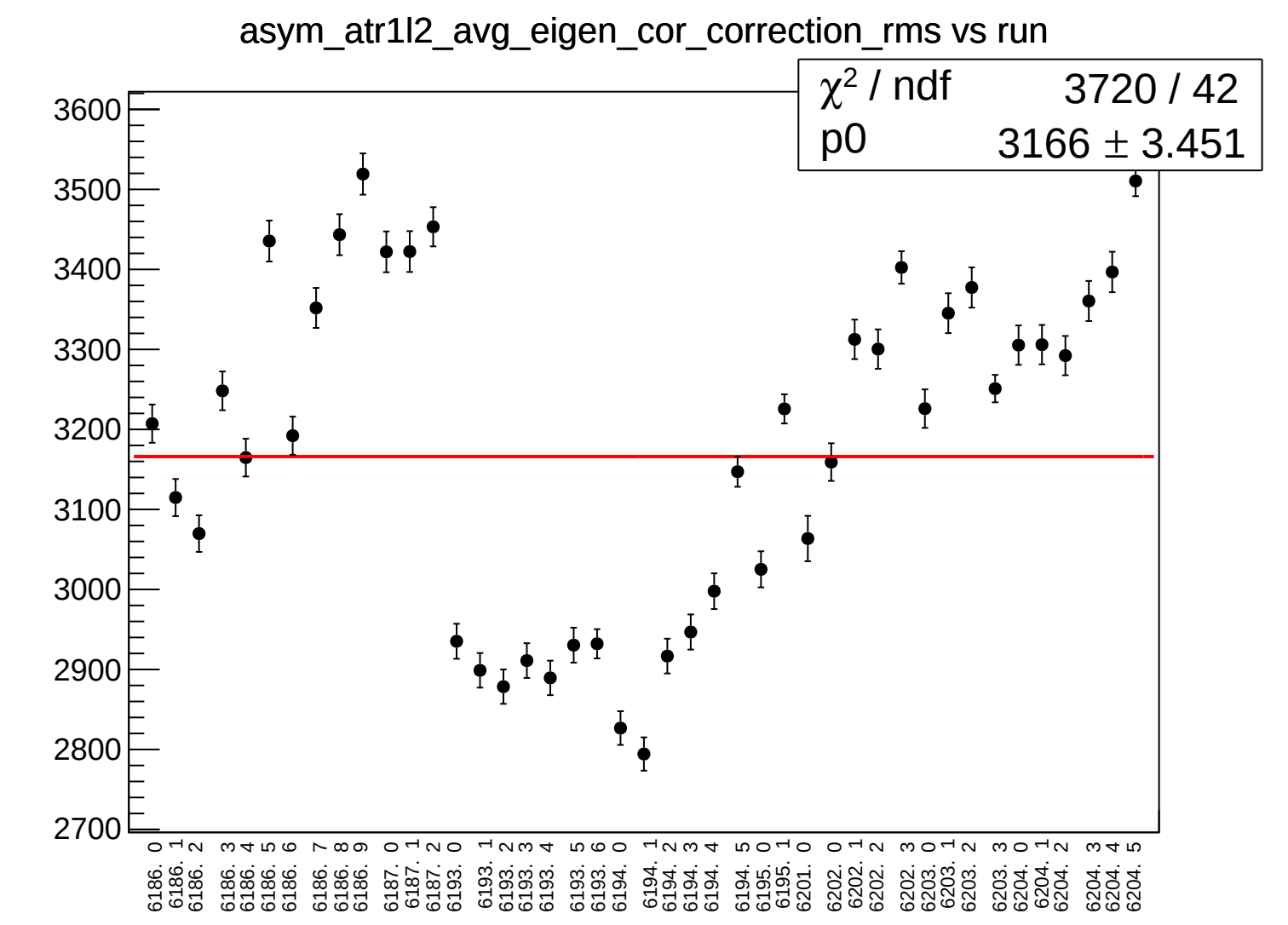

pull1D
Entries 43
Mean 0.01104
Std Dev 1.247

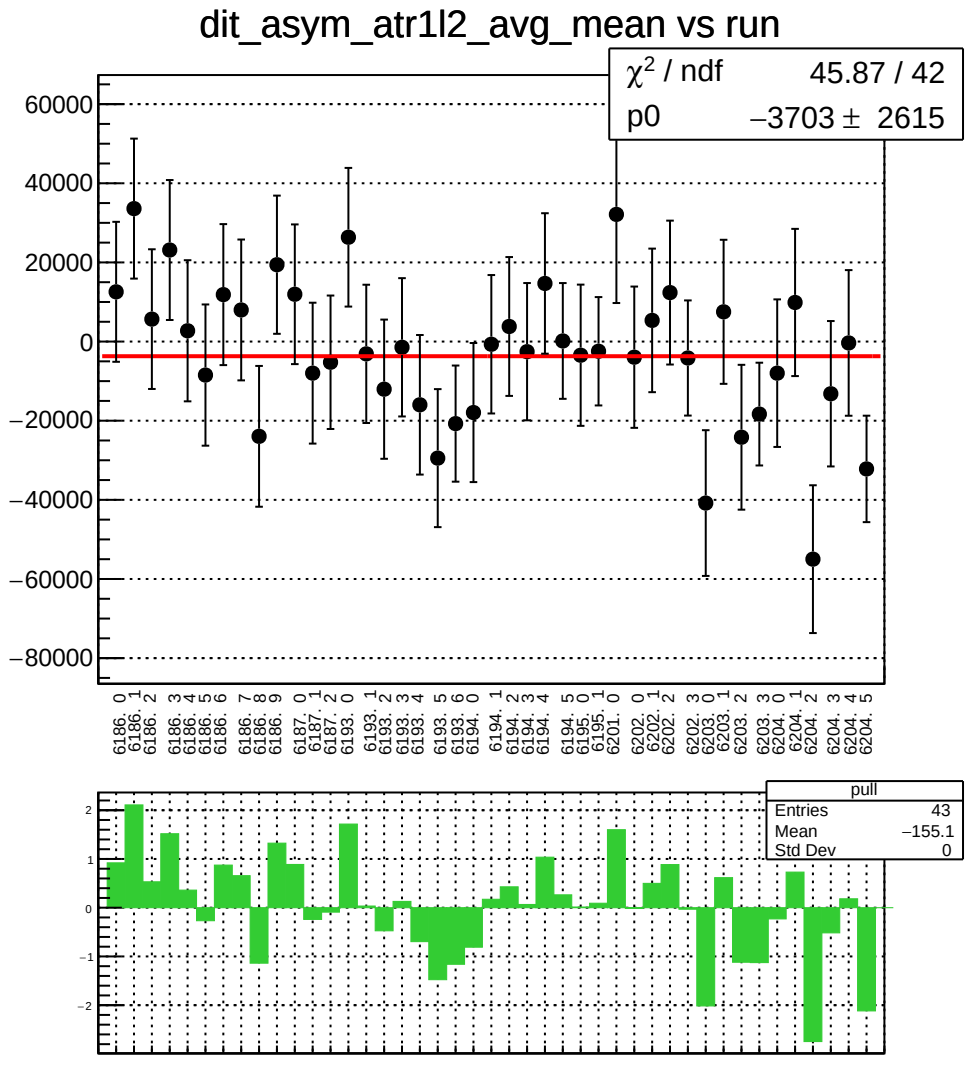

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 3720 / 42
p0 3166 ± 3.451
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

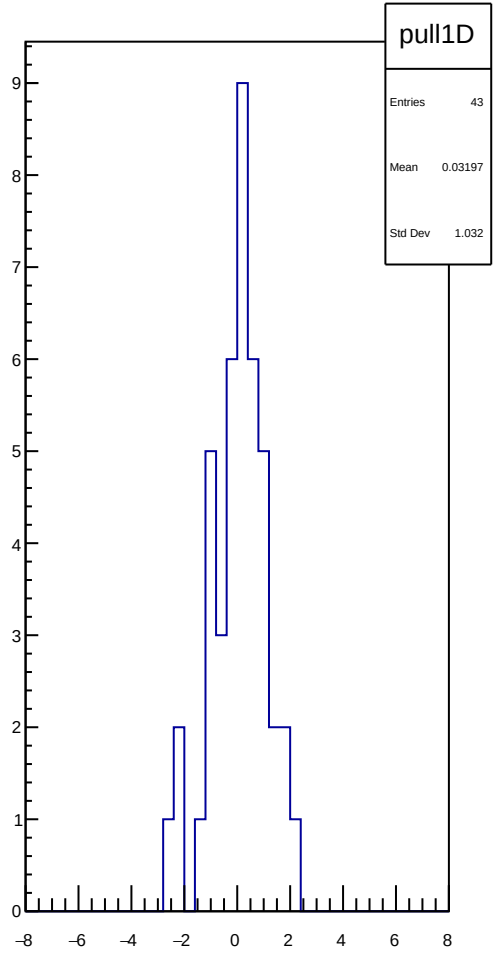

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 45.84 / 42
p0 −3900 ± 2607
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −160
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03141
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

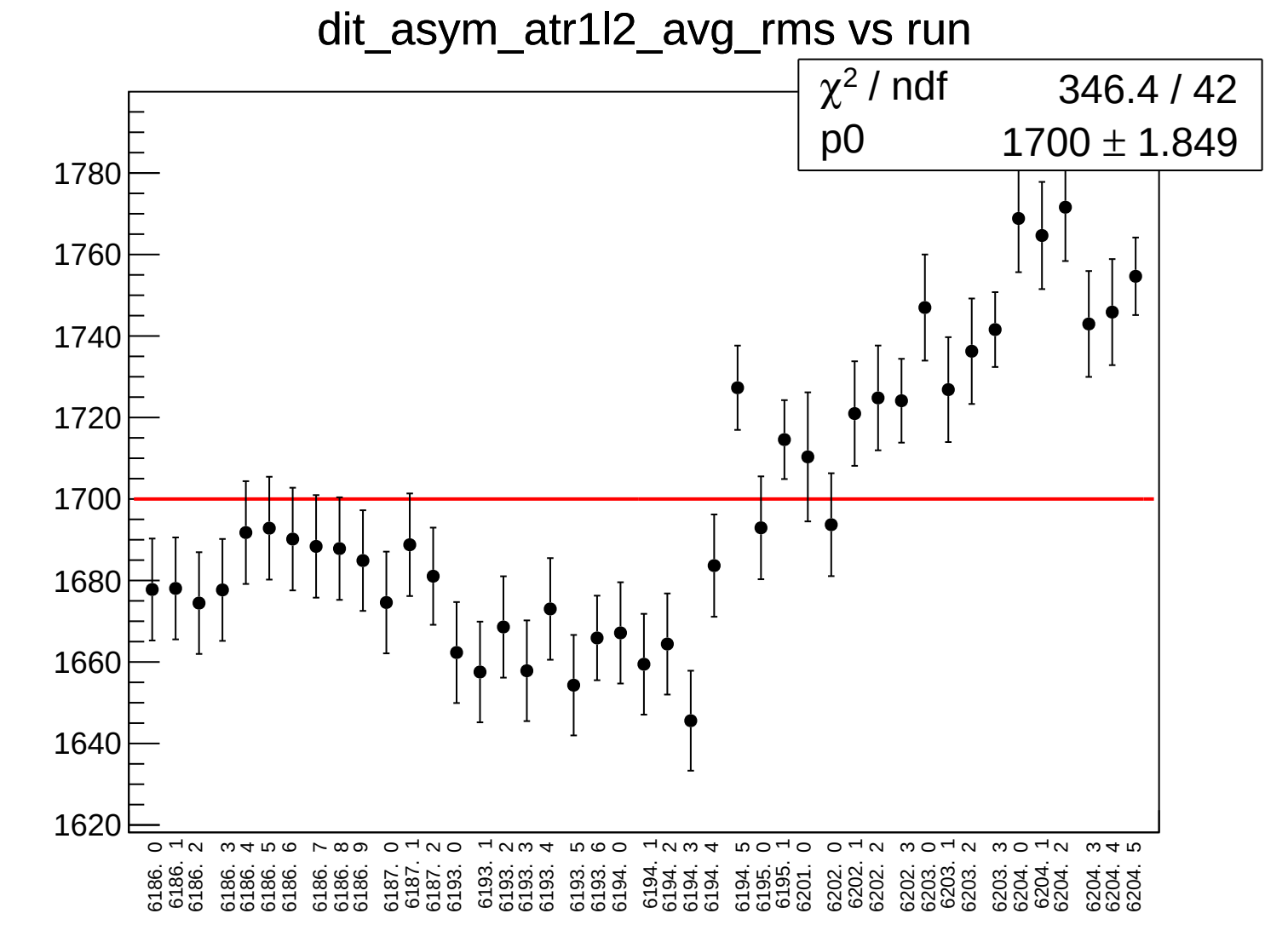

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 320.4 / 42
p0 1694 ± 1.843
1780
1760
1740
1720
1700
1680
1660
1640
1620
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

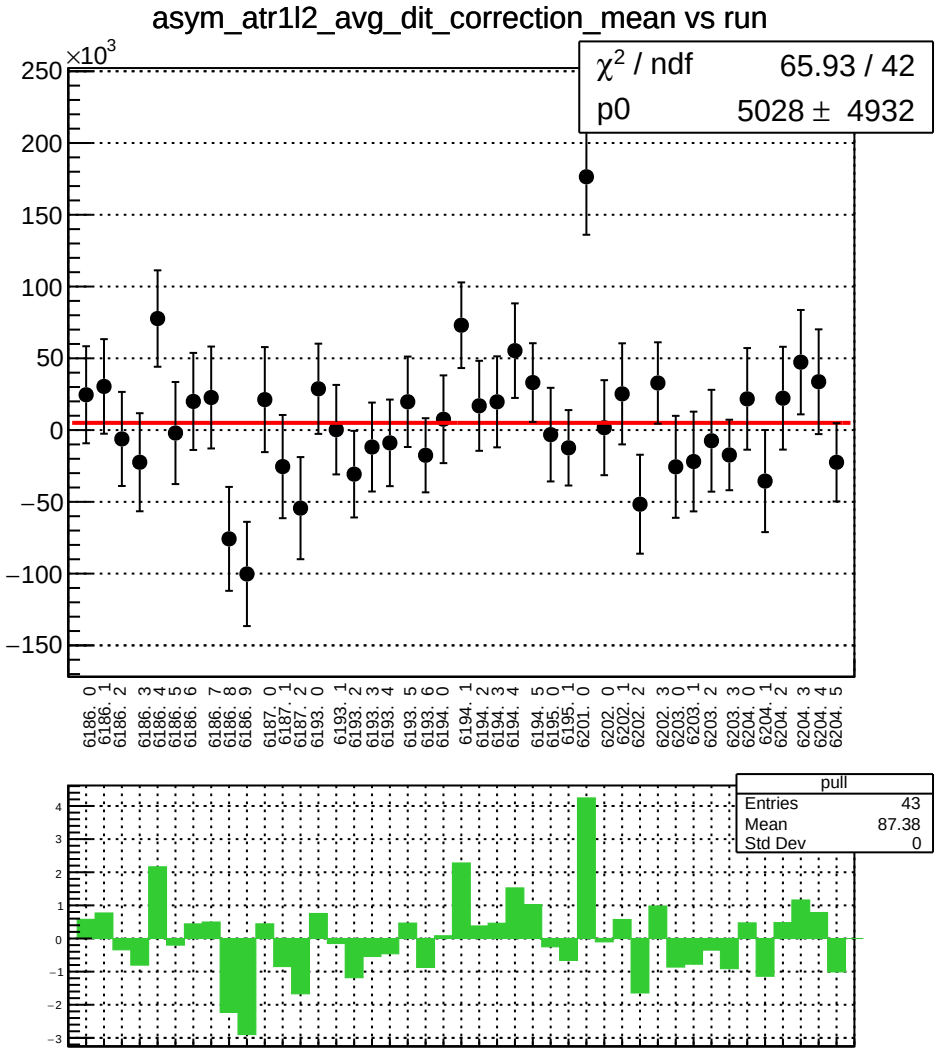

asym_atr1l2_avg_eigen_cor_correction_mean vs run
χ² / ndf 66.92 / 42
p0 5107 ± 4881
pull
Entries 43
Mean 111.1
Std Dev 0
pull1D
Entries 43
Mean 0.01104
Std Dev 1.247

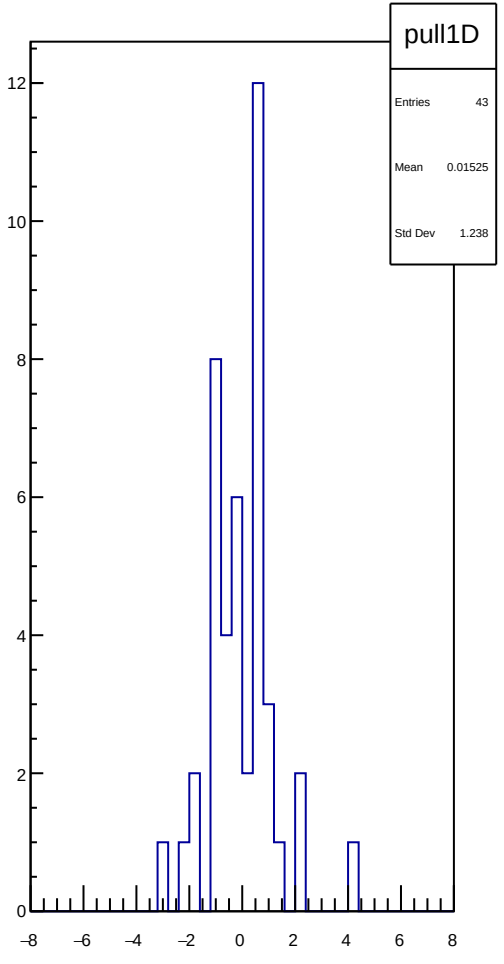

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3720 / 42
p0 3166 ± 3.451
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

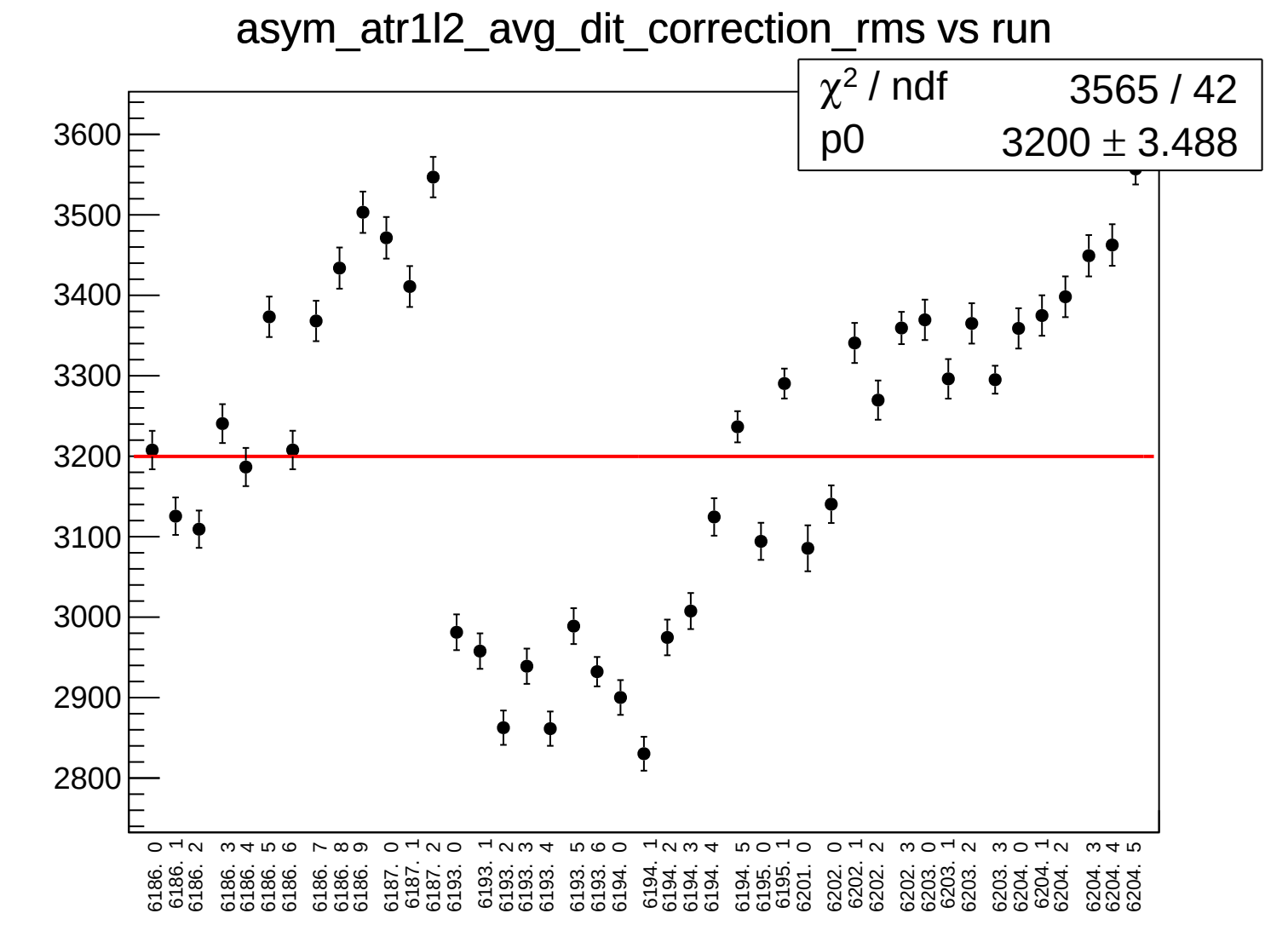

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 45.87 / 42
p0 −3703 ± 2615
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −155.1
Std Dev 0
2
1
0
−1
−2

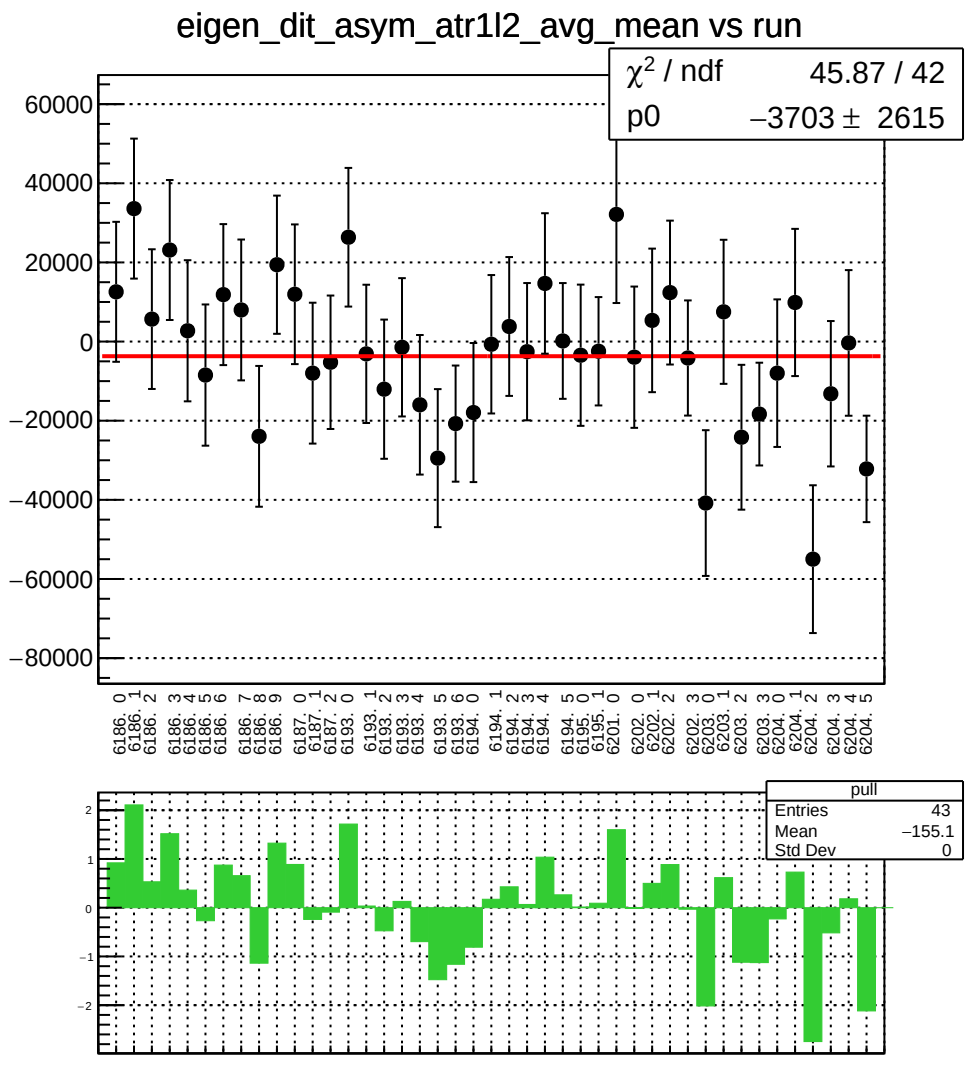

pull1D
Entries 43
Mean 0.03197
Std Dev 1.032
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

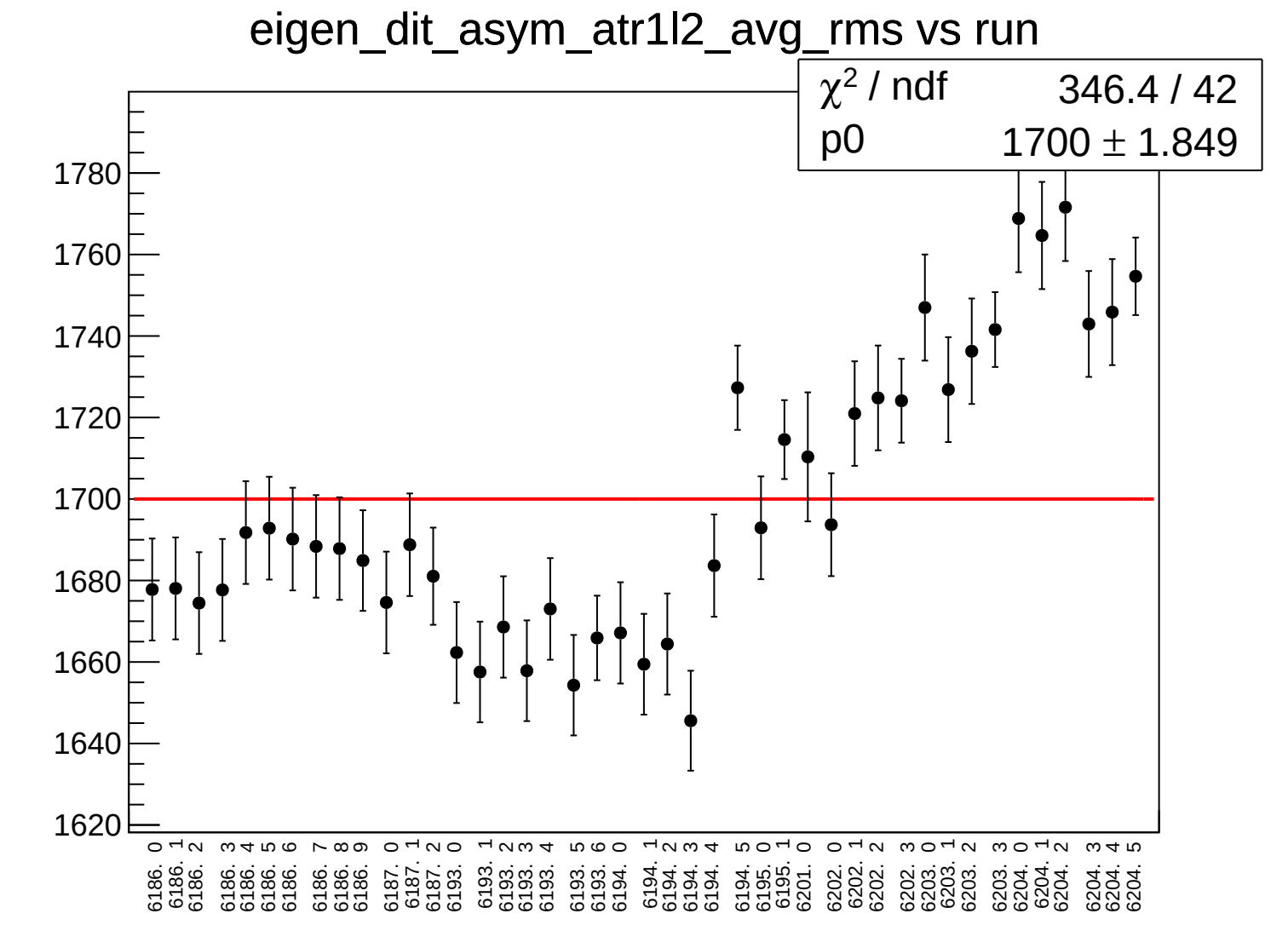

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 346.4 / 42
p0 1700 ± 1.849
1780
1760
1740
1720
1700
1680
1660
1640
1620
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

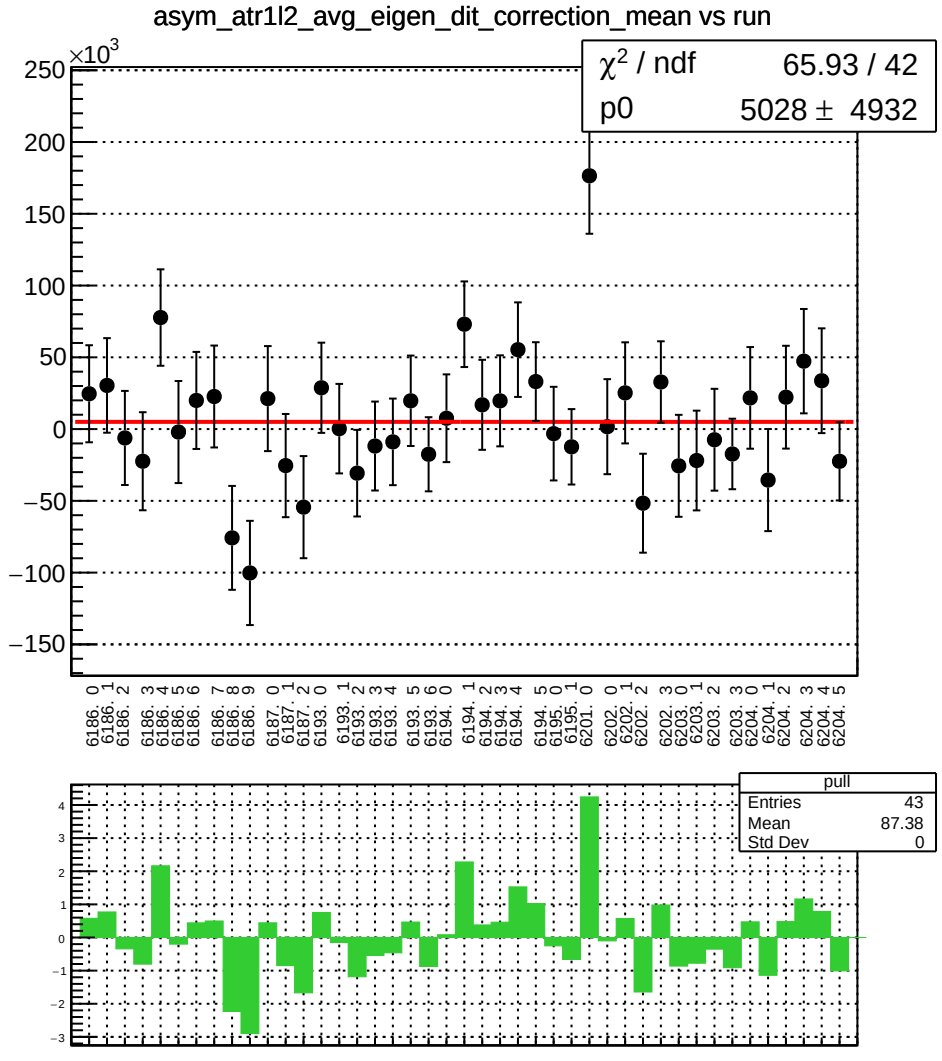

asym_atr1l2_avg_dit_correction_mean vs run
χ² / ndf 65.93 / 42
p0 5028 ± 4932
×10³
pull
Entries 43
Mean 87.38
Std Dev 0

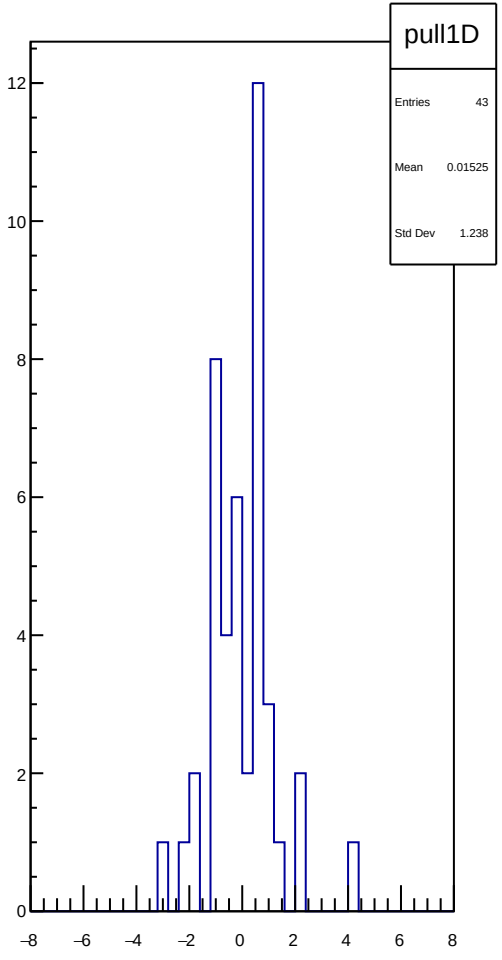

pull1D
Entries 43
Mean 0.01525
Std Dev 1.238

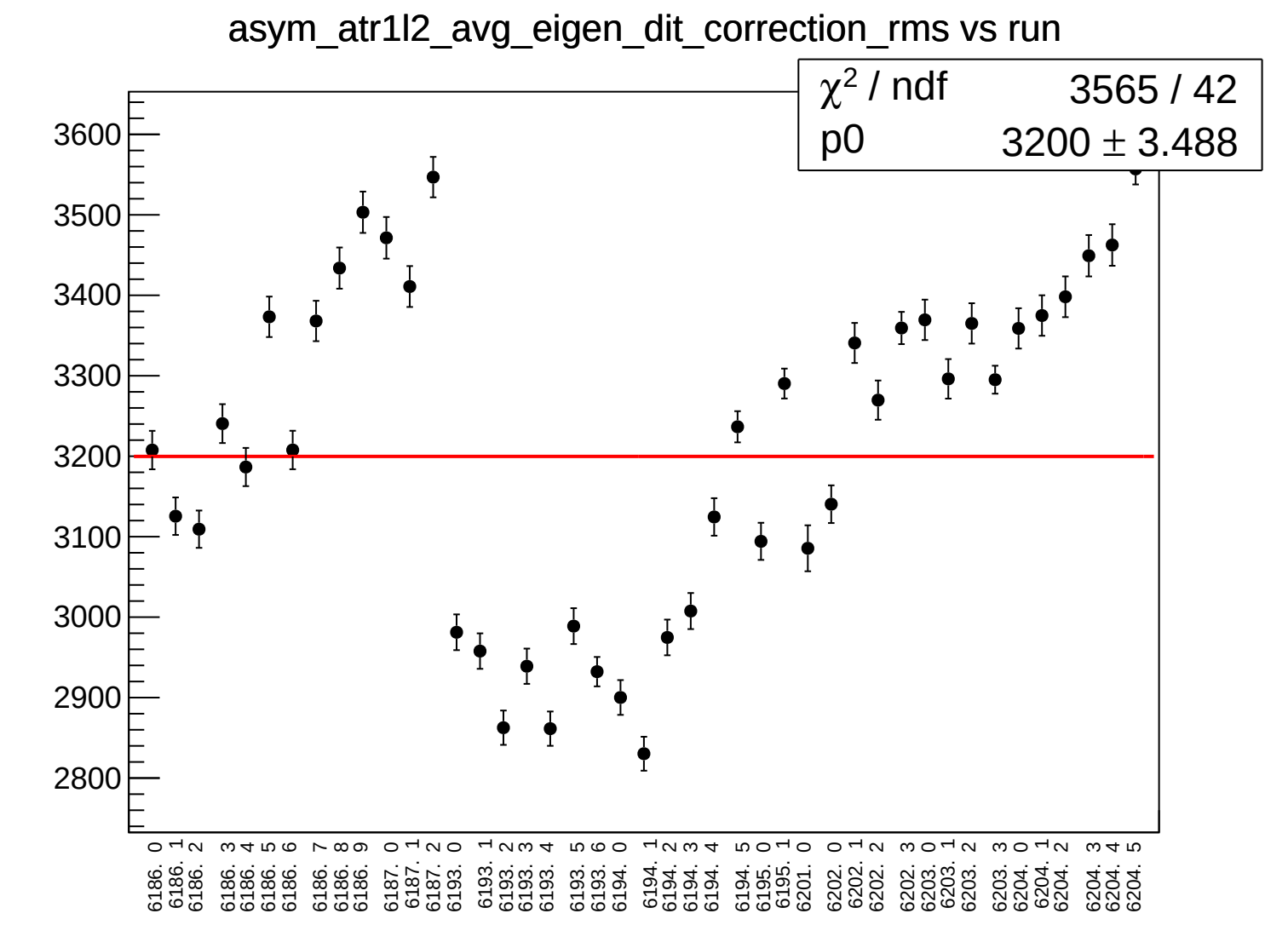

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 3565 / 42
p0 3200 ± 3.488
3600
3500
3400
3300
3200
3100
3000
2900
2800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

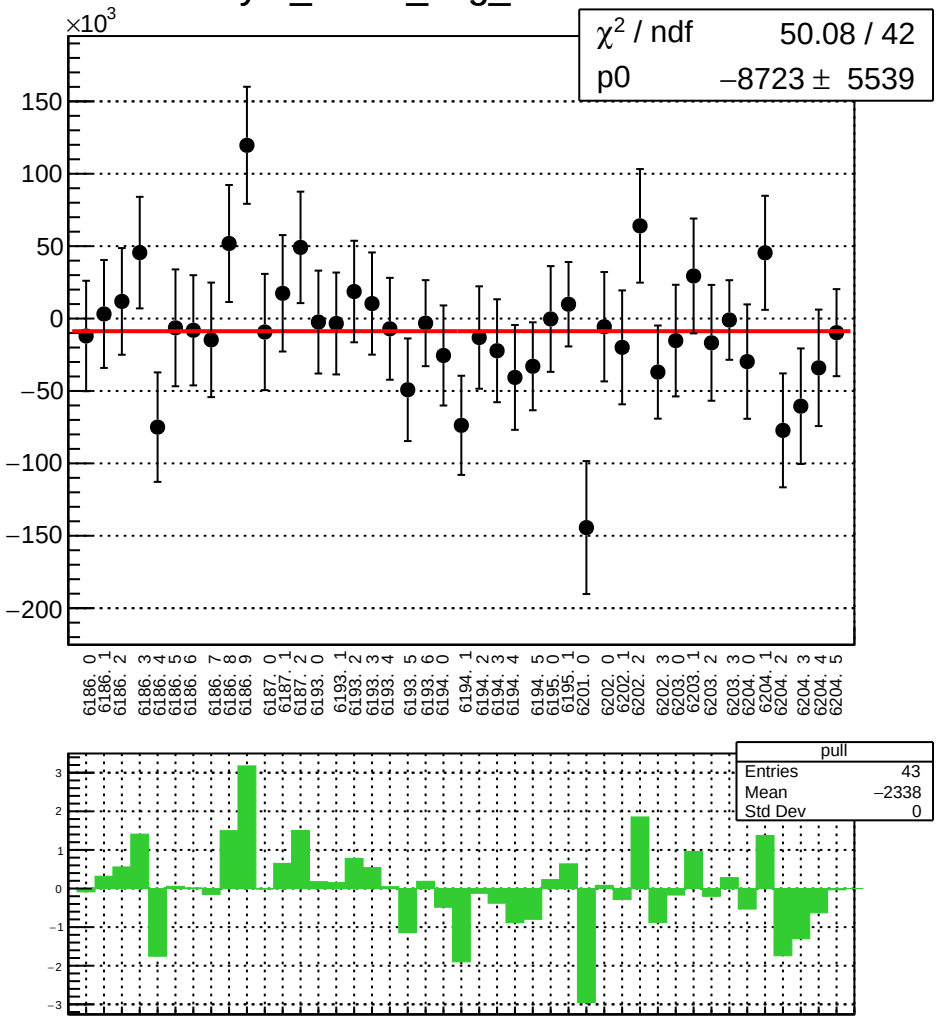

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 45.87 / 42
p0 −3703 ± 2615
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −155.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03197
Std Dev 1.032
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

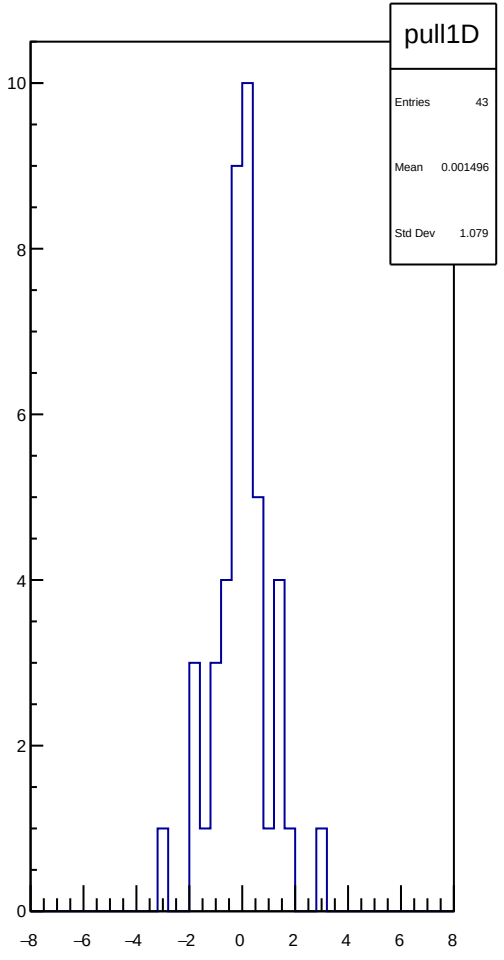

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 346.4 / 42
p0 1700 ± 1.849
1780
1760
1740
1720
1700
1680
1660
1640
1620
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

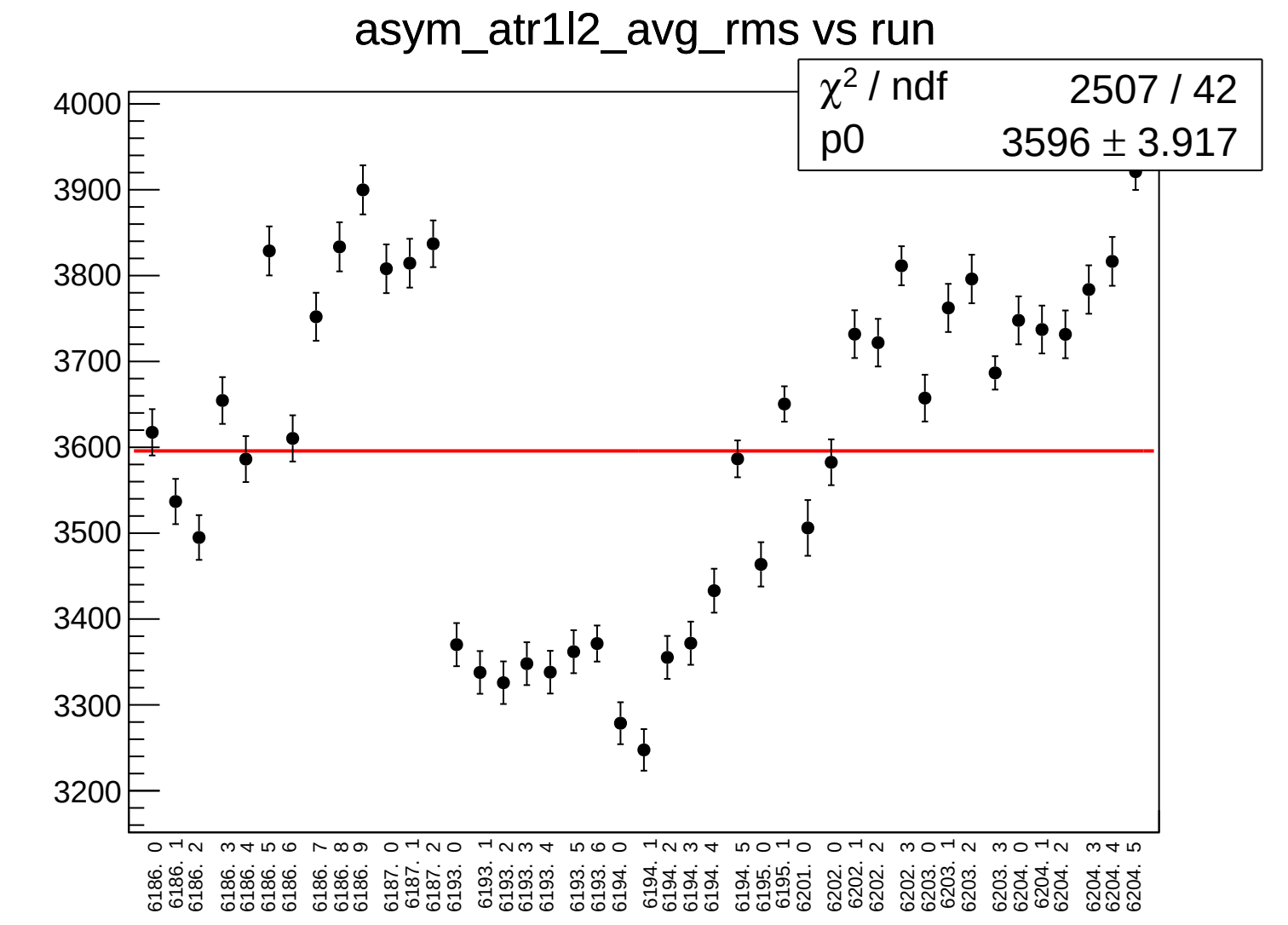

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.93 / 42
p0 5028 ± 4932
250
200
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 87.38
Std Dev 0
4
3
2
1
0
−1
−2
−3

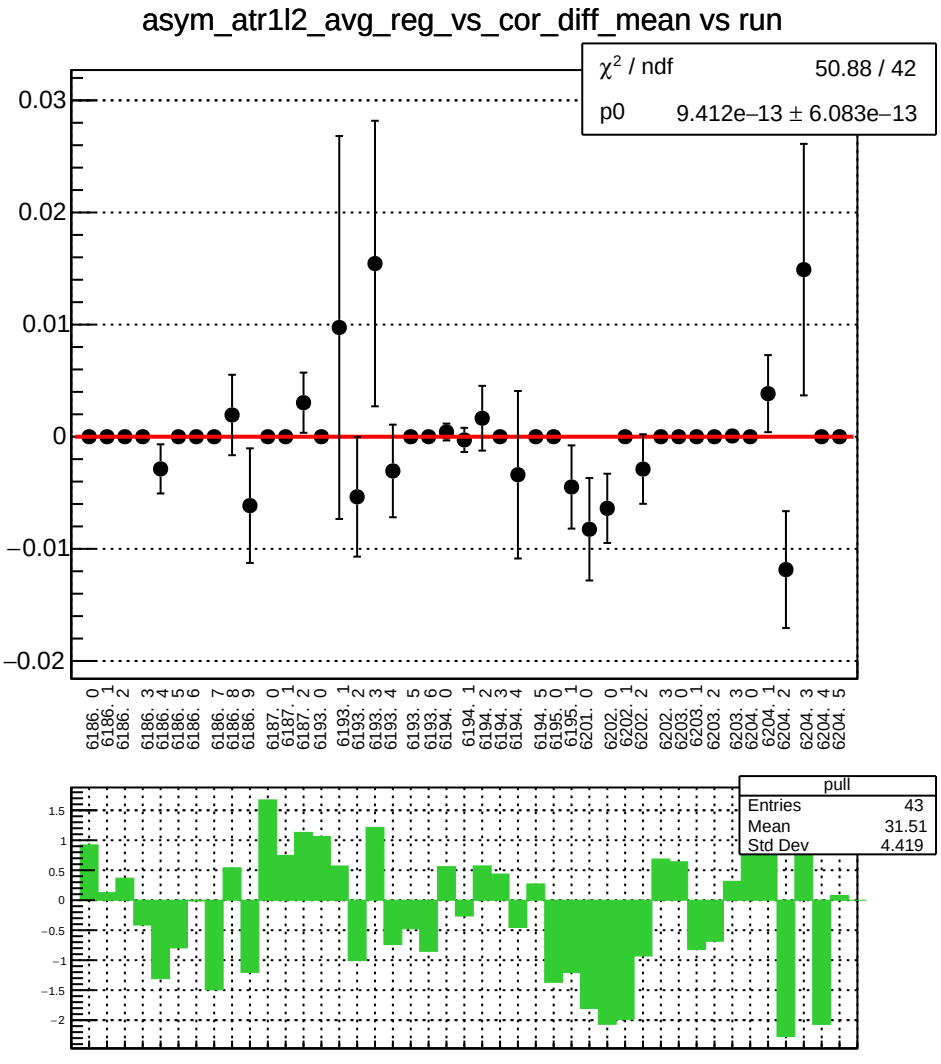

pull1D
Entries 43
Mean 0.01525
Std Dev 1.238
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

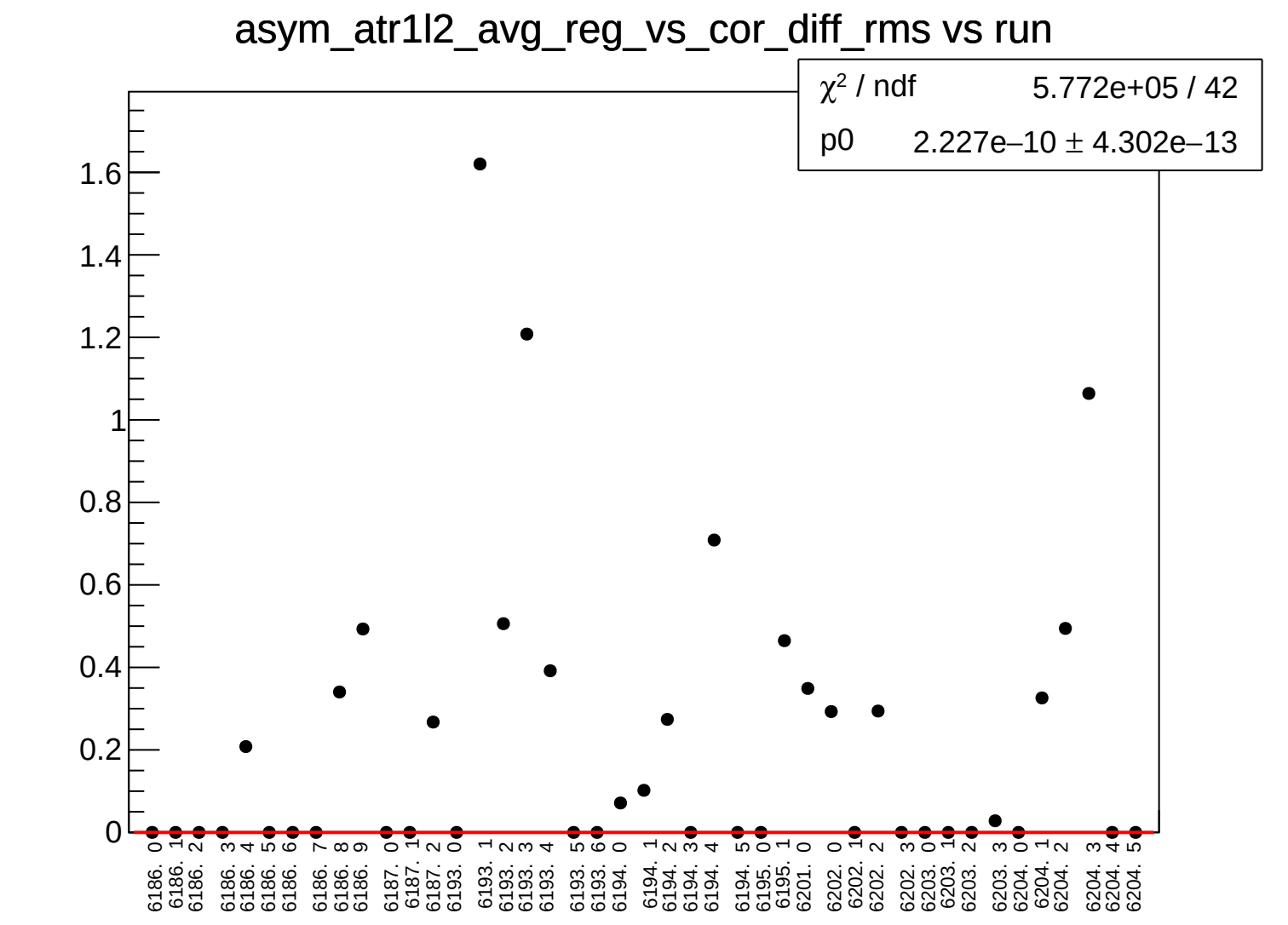

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3565 / 42
p0 3200 ± 3.488
3600
3500
3400
3300
3200
3100
3000
2900
2800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

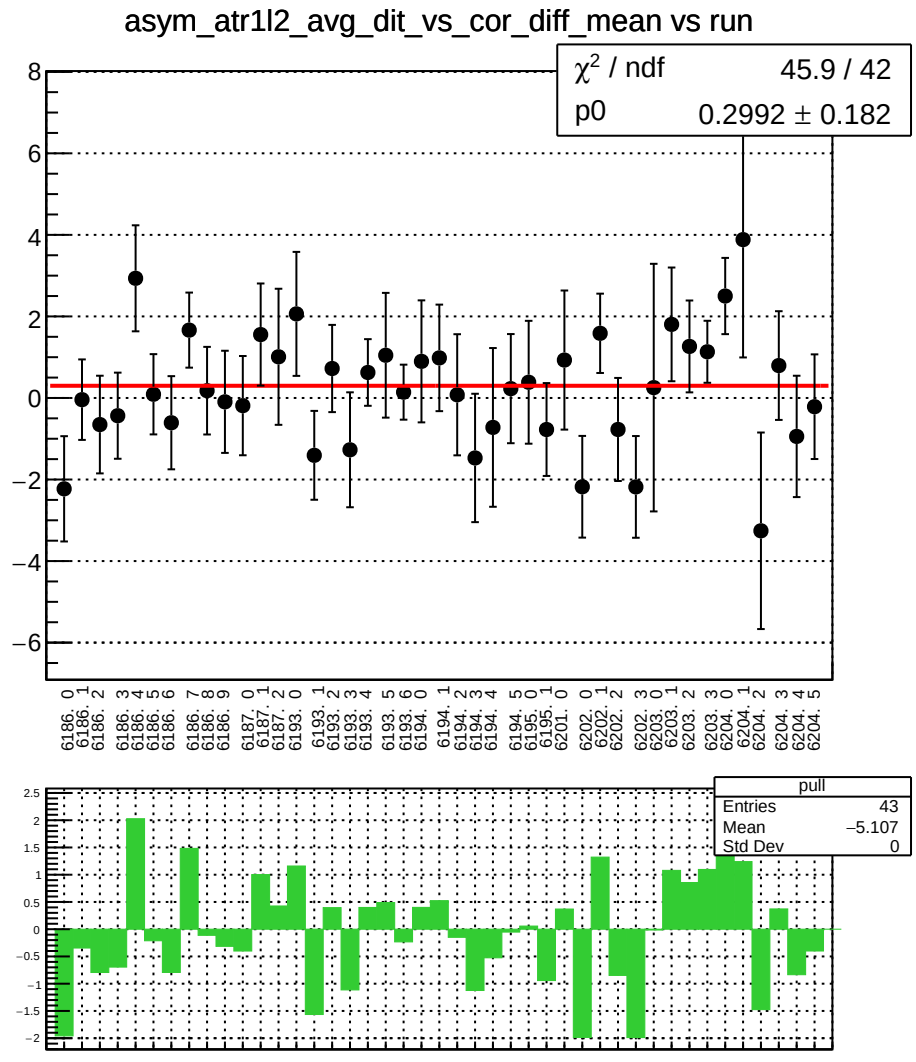

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 50.08 / 42
p0 −8723 ± 5539
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −2338
Std Dev 0
3
2
1
0
−1
−2
−3

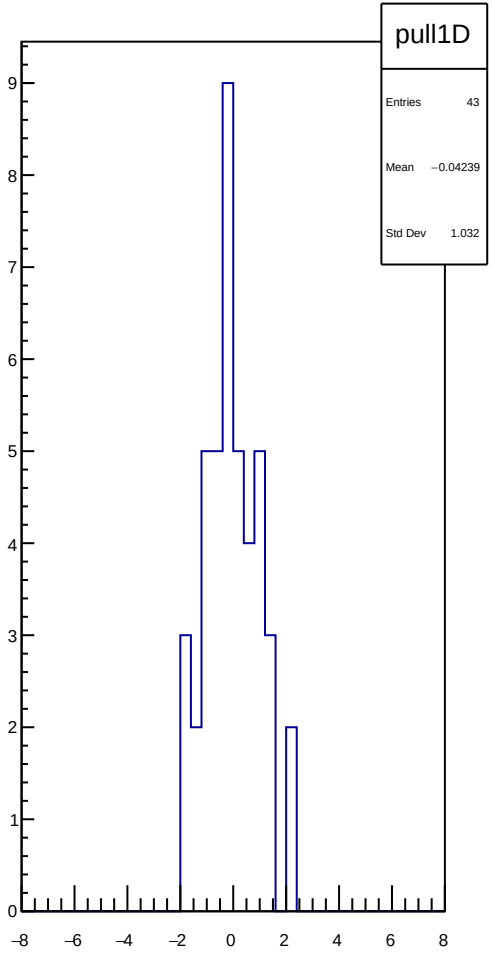

pull1D
Entries 43
Mean 0.001496
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

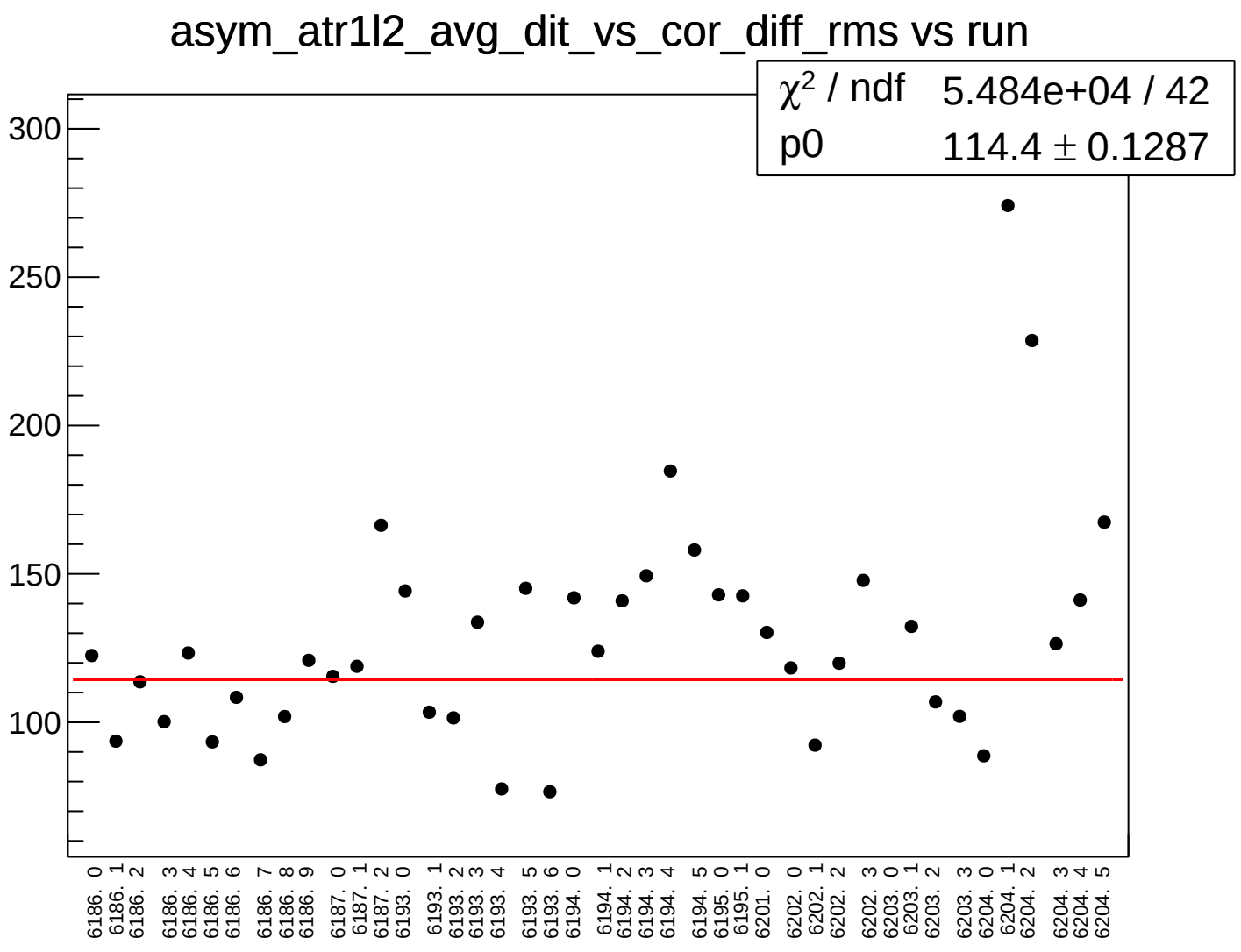

asym_atr1l2_avg_rms vs run
χ² / ndf 2507 / 42
p0 3596 ± 3.917
4000
3900
3800
3700
3600
3500
3400
3300
3200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

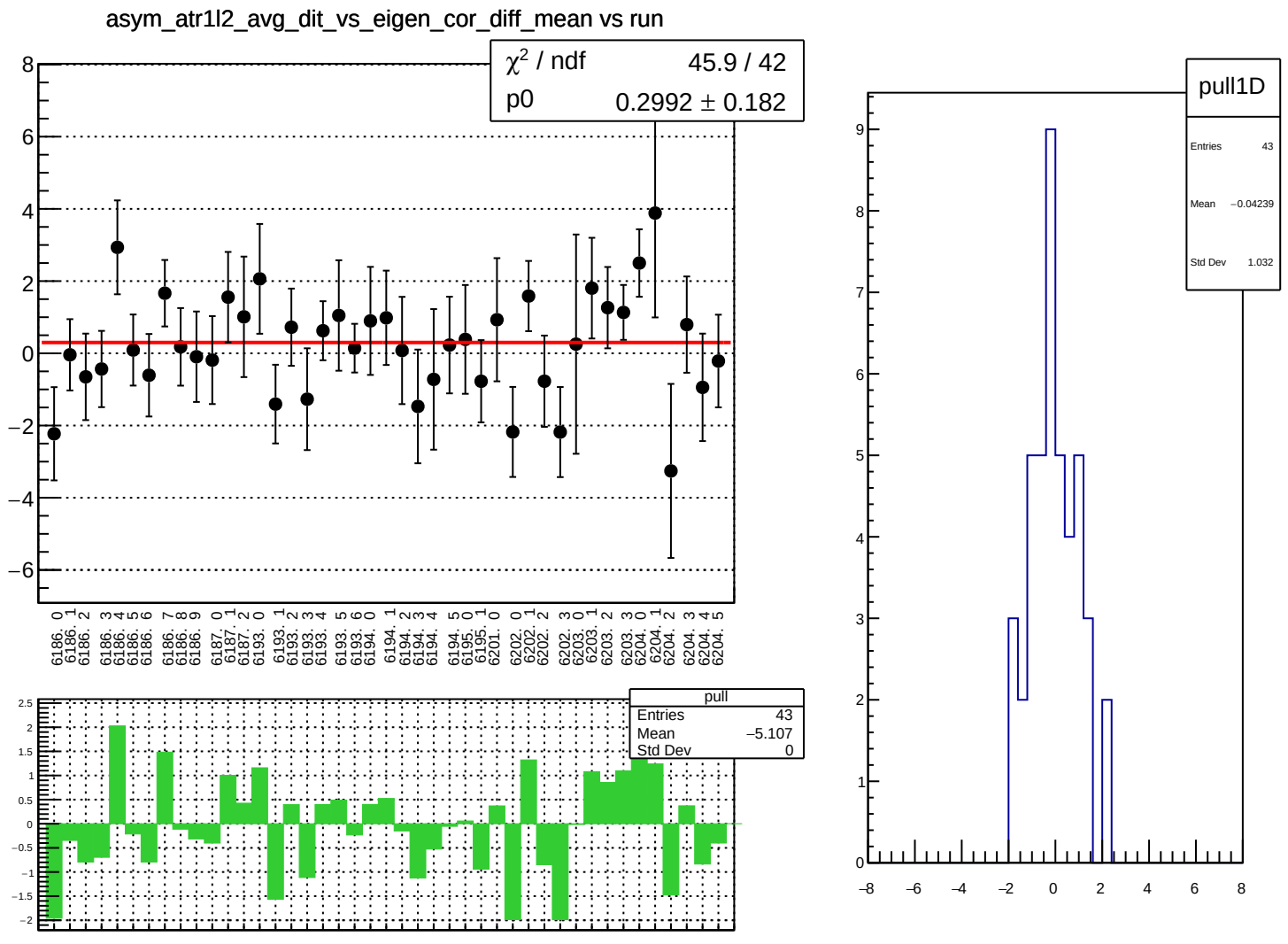

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 50.88 / 42
p0 9.412e−13 ± 6.083e−13
0.03
0.02
0.01
0
−0.01
−0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 31.51
Std Dev 4.419
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1981
Std Dev 1.07
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

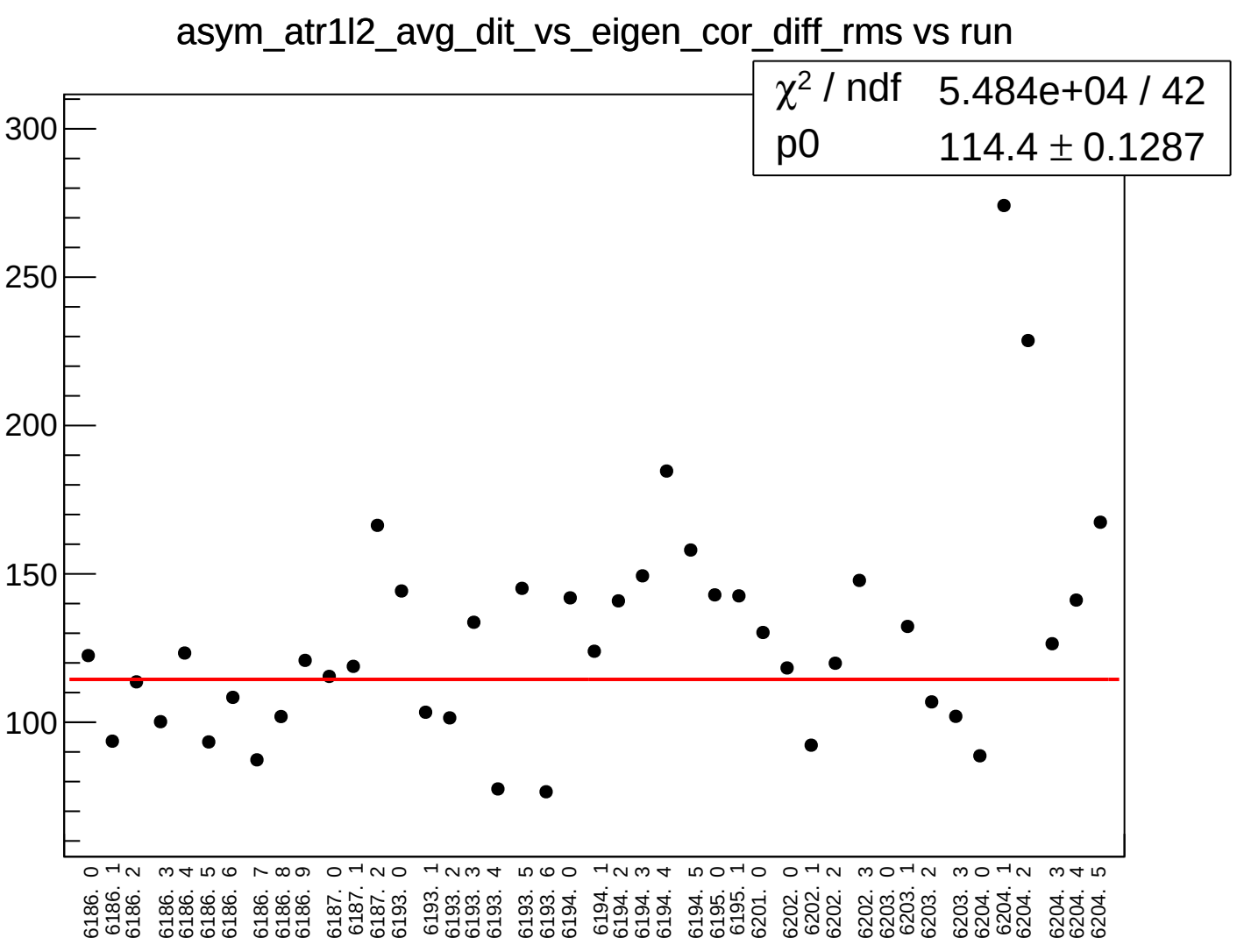

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.772e+05 / 42
p0 2.227e−10 ± 4.302e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

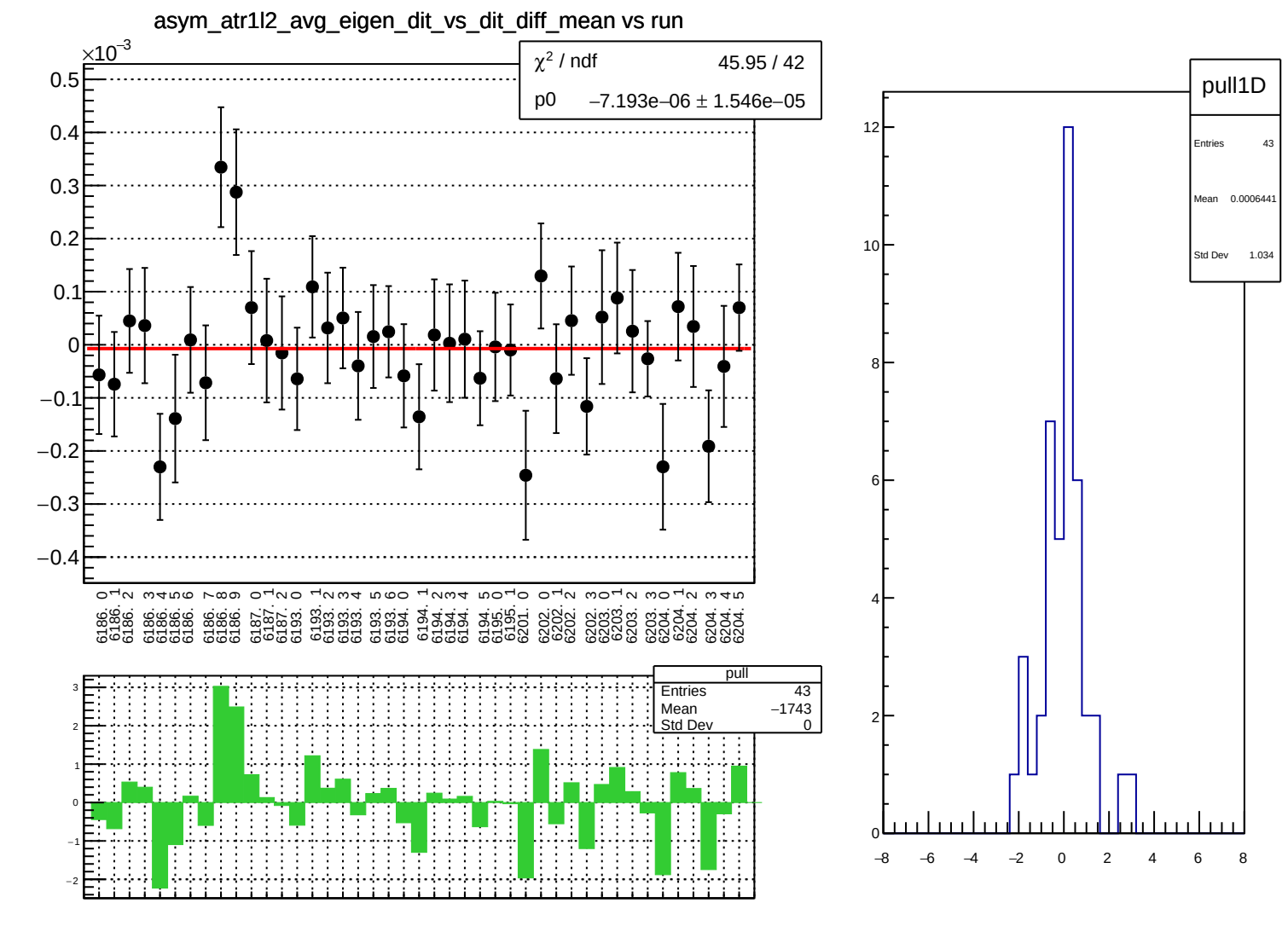

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 45.9 / 42
p0 0.2992 ± 0.182
pull
Entries 43
Mean −5.107
Std Dev 0

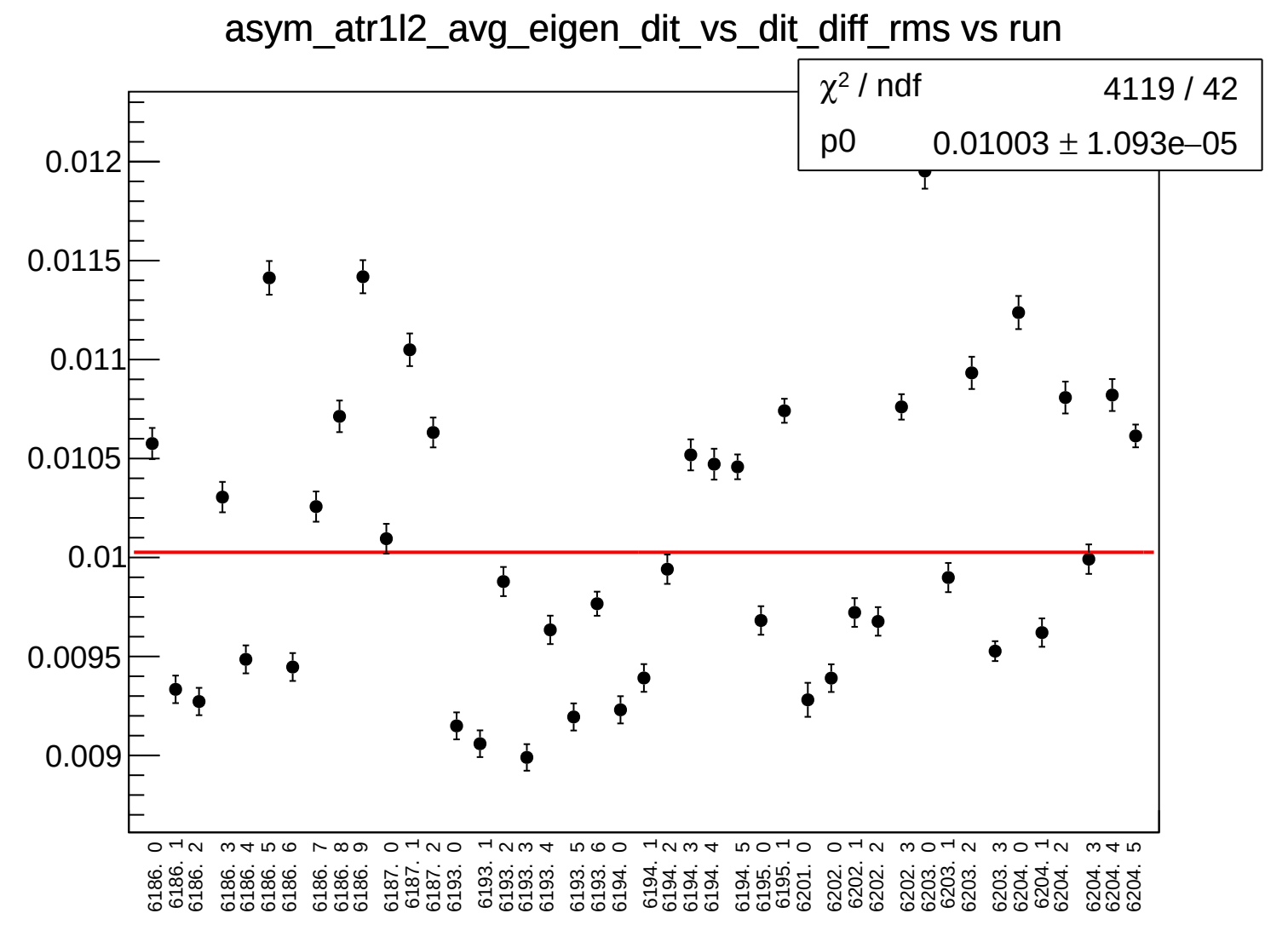

pull1D
Entries 43
Mean −0.04239
Std Dev 1.032

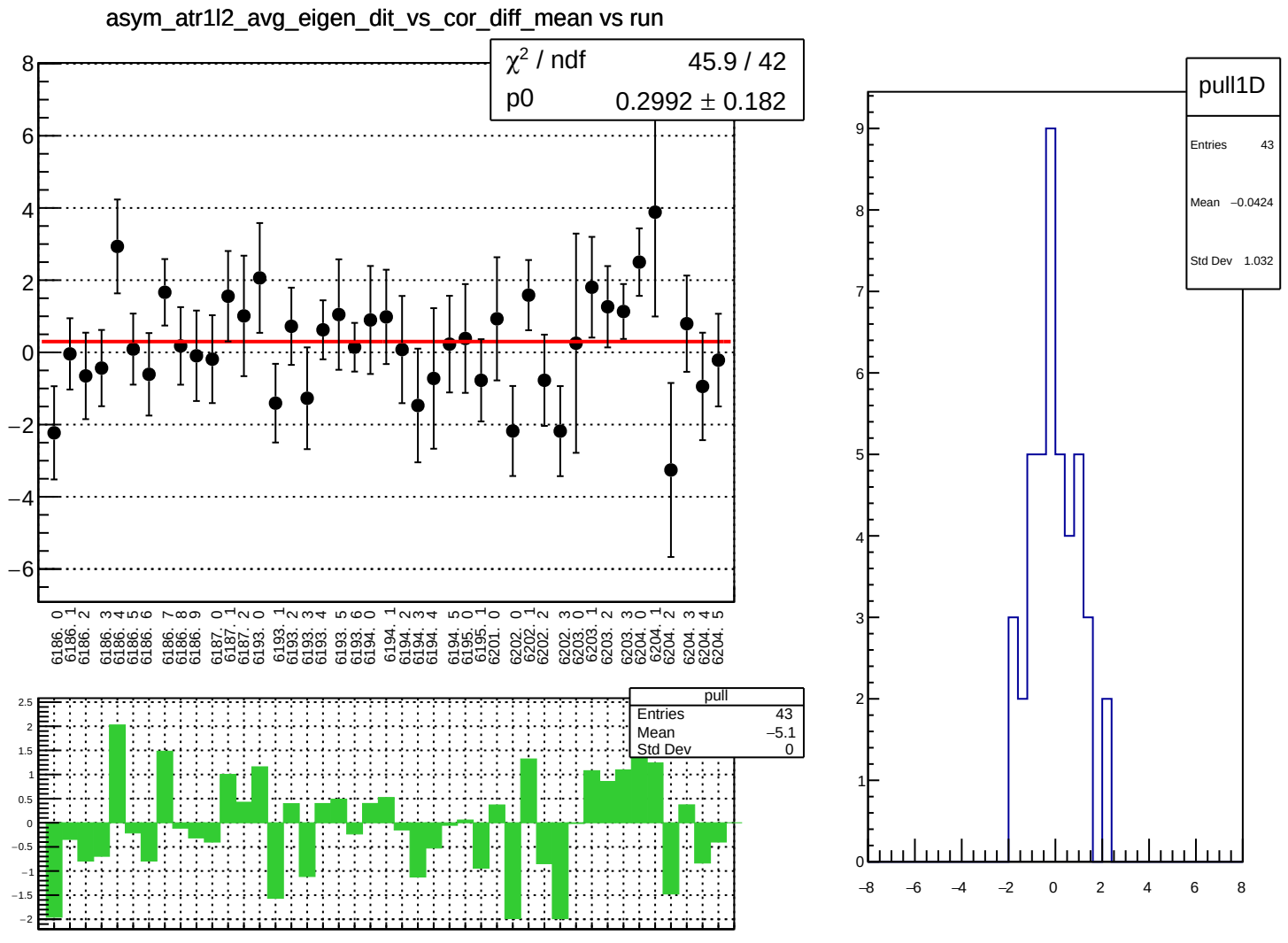

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.484e+04 / 42
p0 114.4 ± 0.1287
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

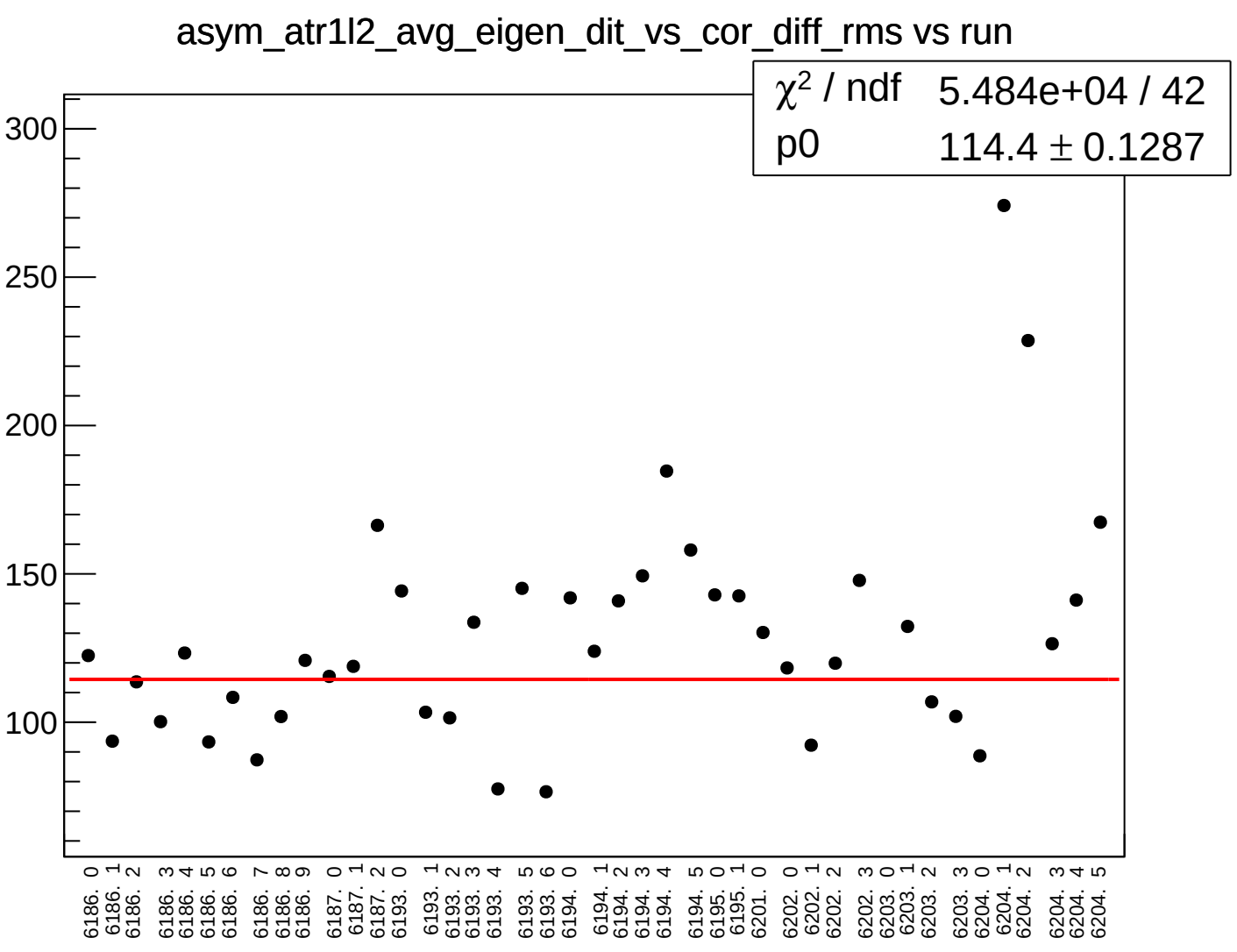

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.9 / 42
p0 0.2992 ± 0.182
pull
Entries 43
Mean −5.107
Std Dev 0
pull1D
Entries 43
Mean −0.04239
Std Dev 1.032

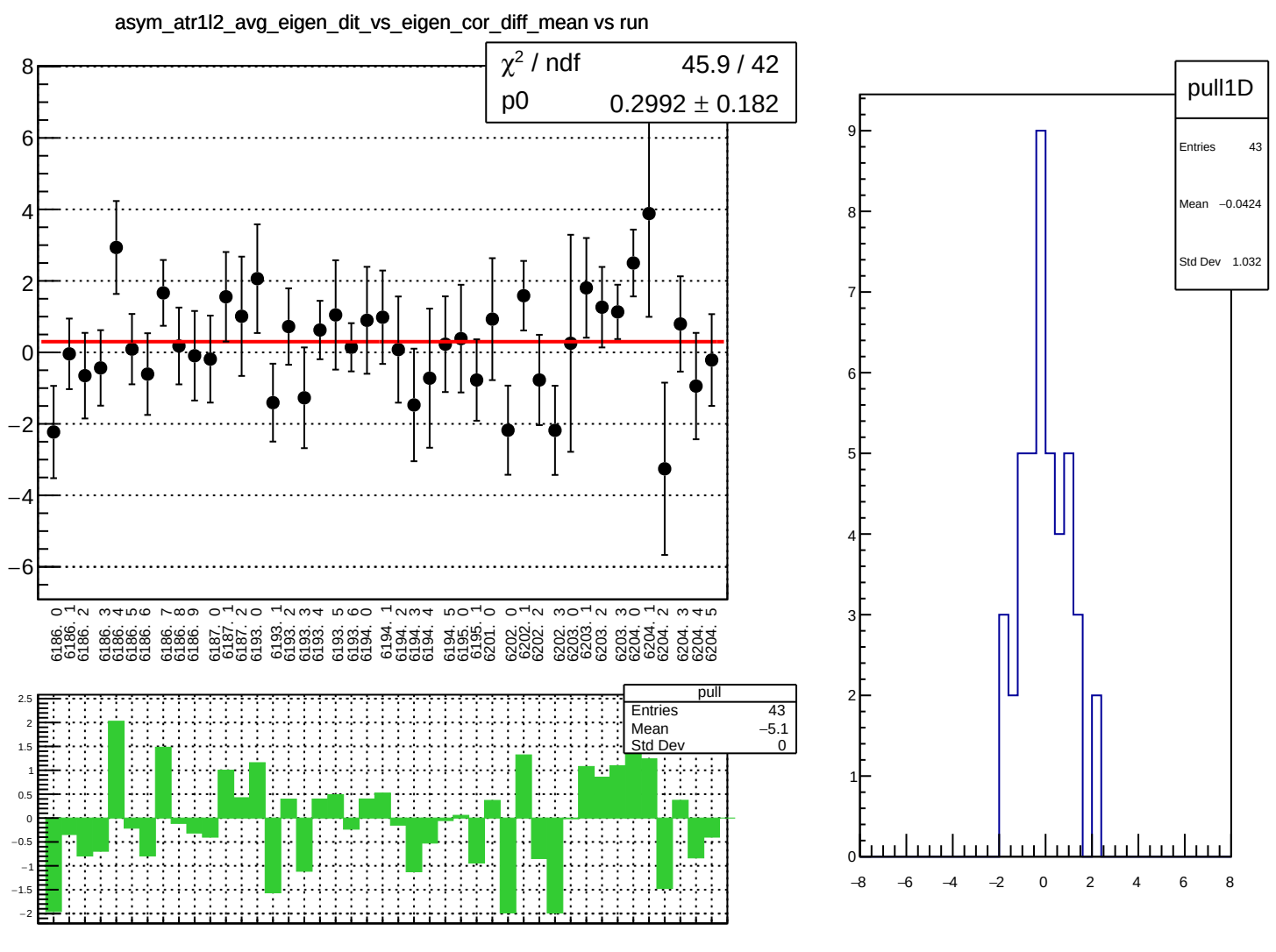

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.484e+04 / 42
p0 114.4 ± 0.1287
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

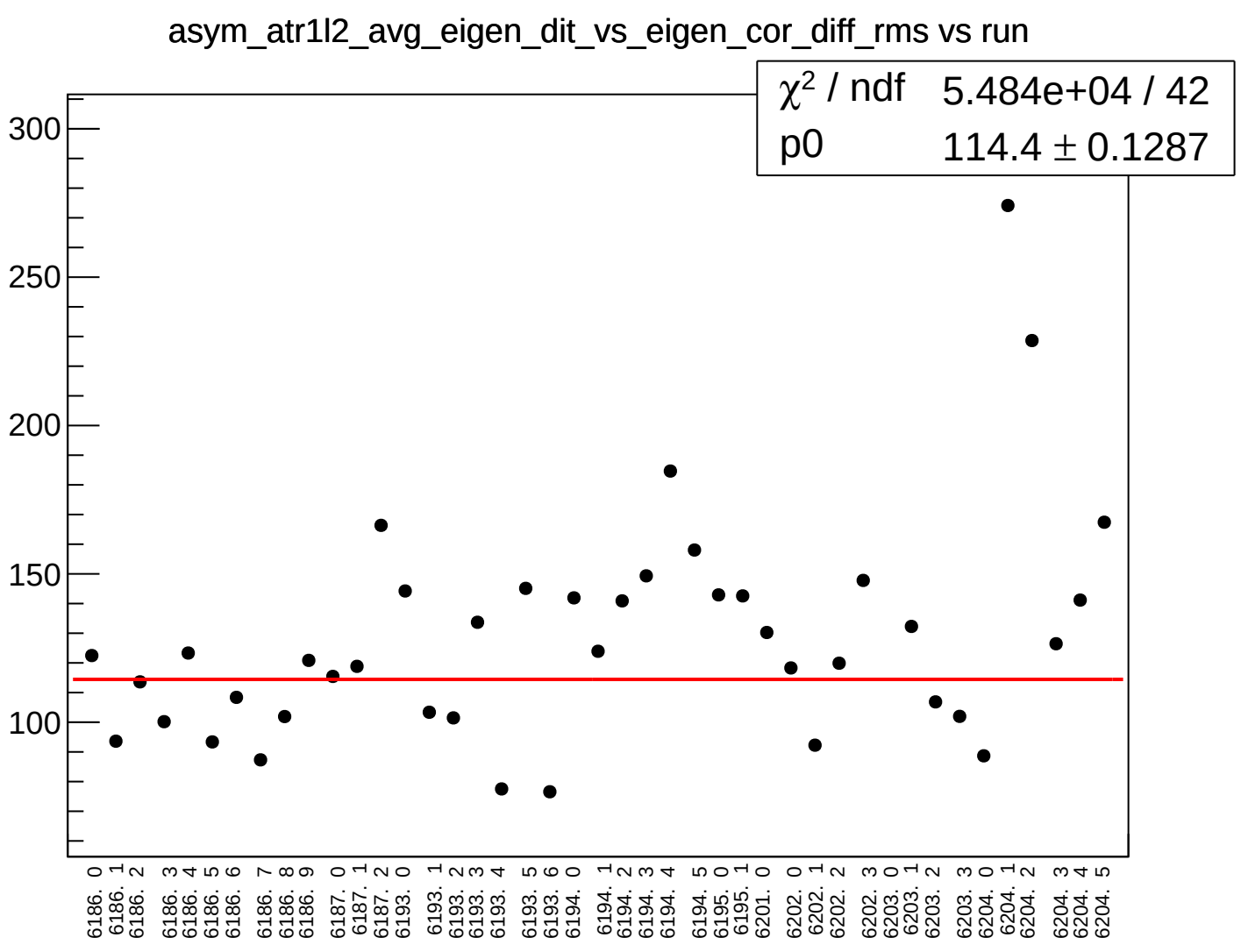

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.95 / 42
p0 −7.193e−06 ± 1.546e−05
pull
Entries 43
Mean −1743
Std Dev 0
pull1D
Entries 43
Mean 0.0006441
Std Dev 1.034

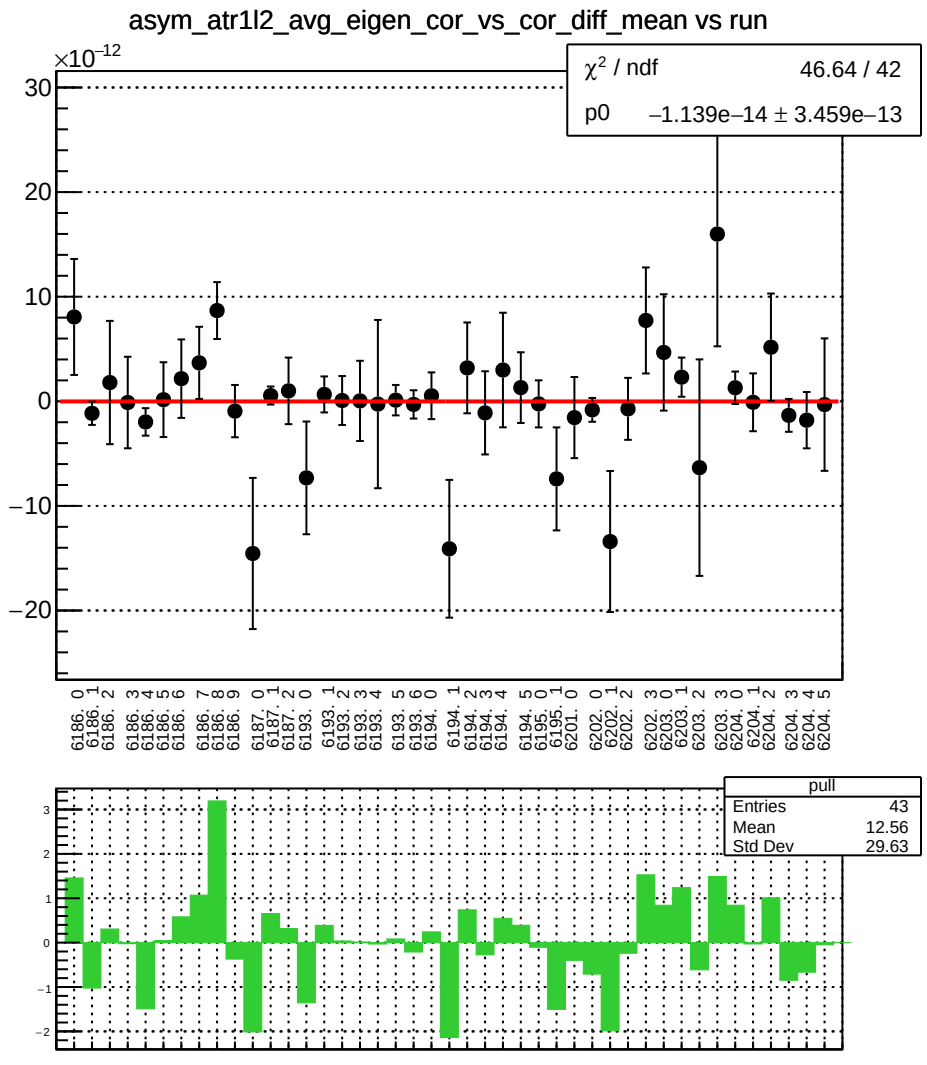

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4119 / 42
p0 0.01003 ± 1.093e–05
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

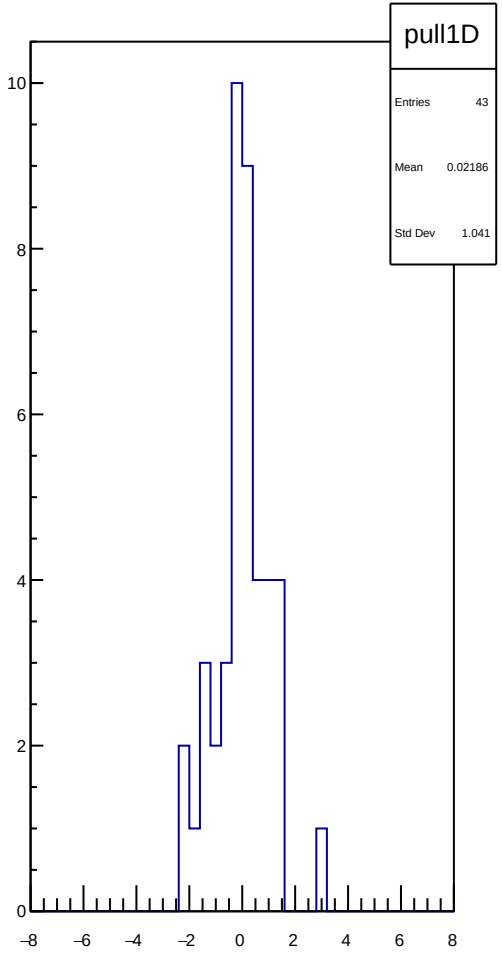

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45.9 / 42
p0 0.2992 ± 0.182
pull
Entries 43
Mean −5.1
Std Dev 0
pull1D
Entries 43
Mean −0.0424
Std Dev 1.032

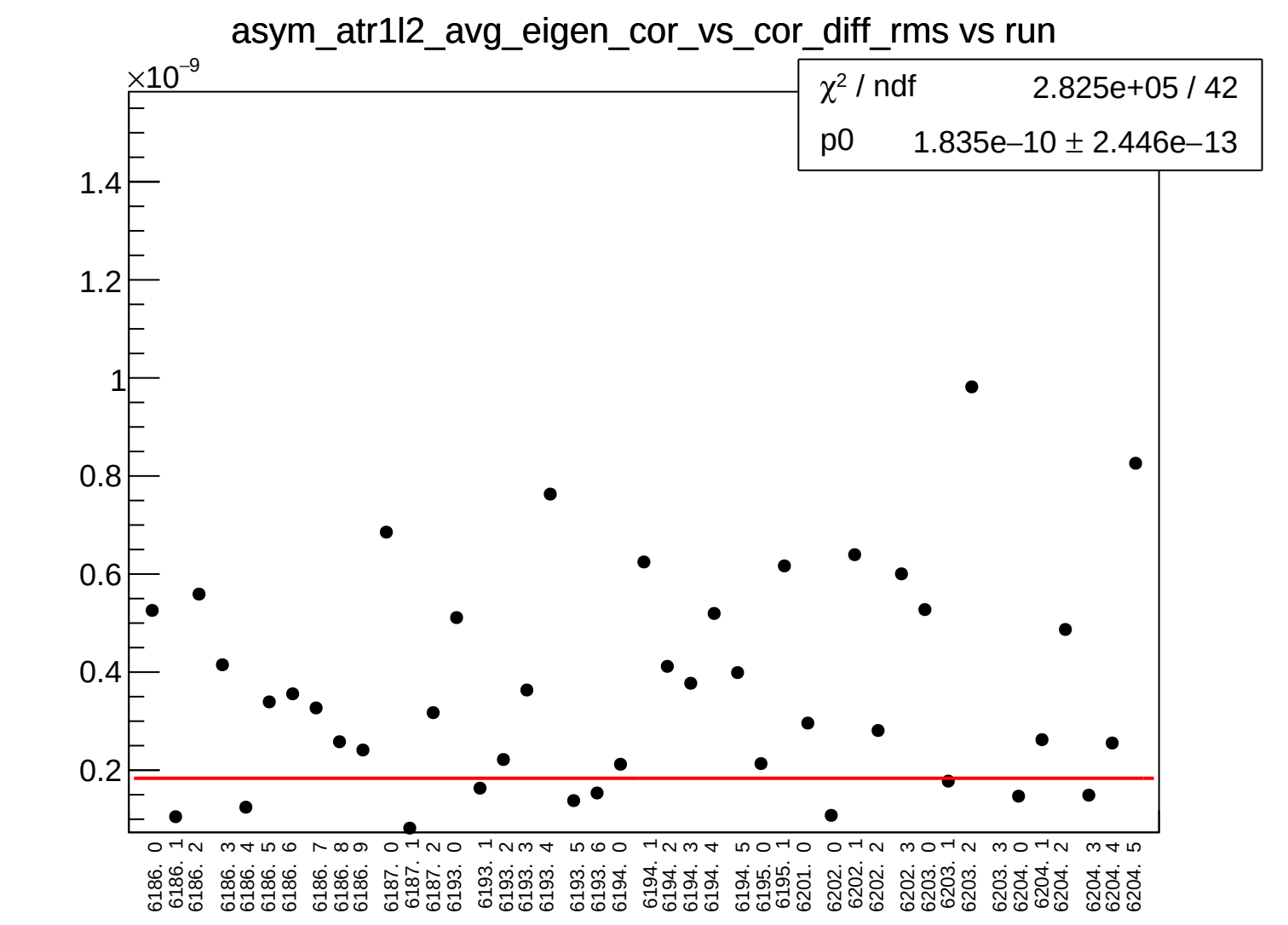

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.484e+04 / 42
p0 114.4 ± 0.1287
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

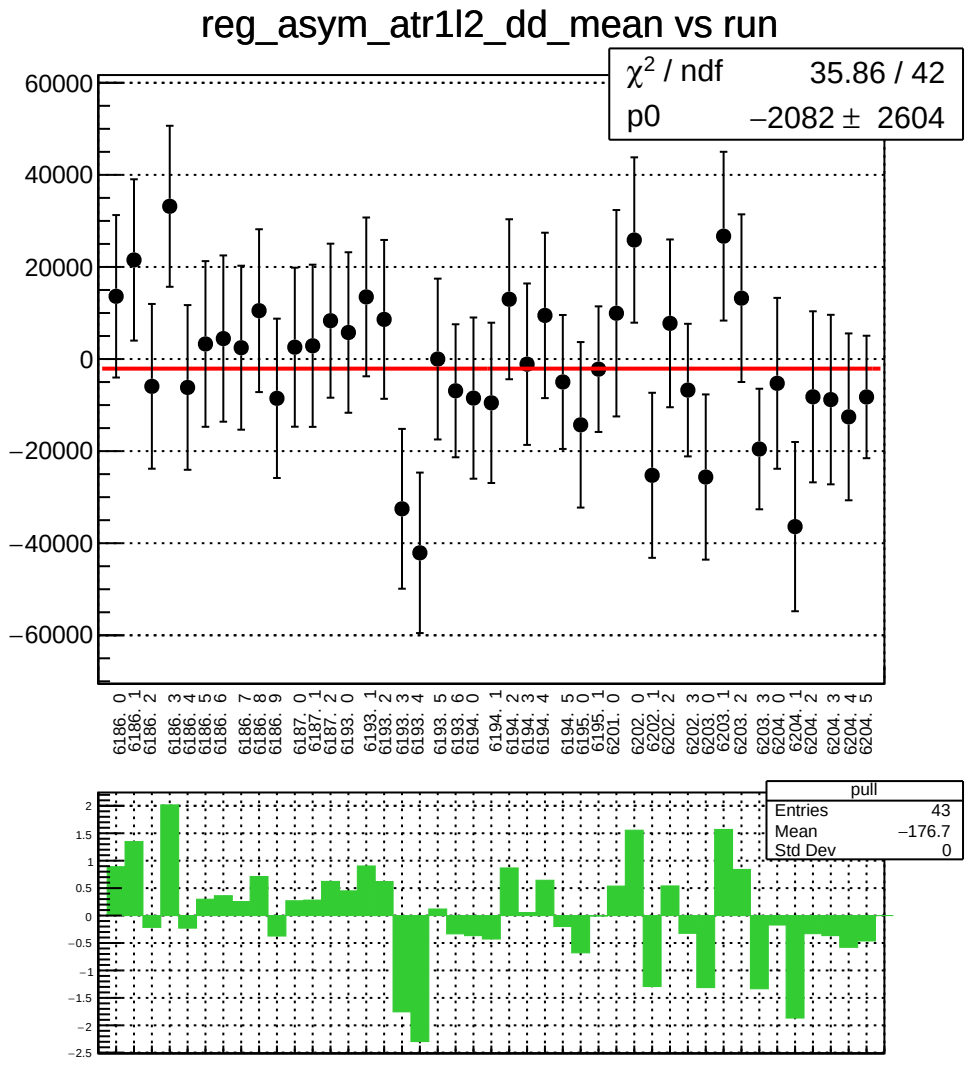

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.9 / 42
p0 0.2992 ± 0.182
pull
Entries 43
Mean −5.1
Std Dev 0
pull1D
Entries 43
Mean −0.0424
Std Dev 1.032

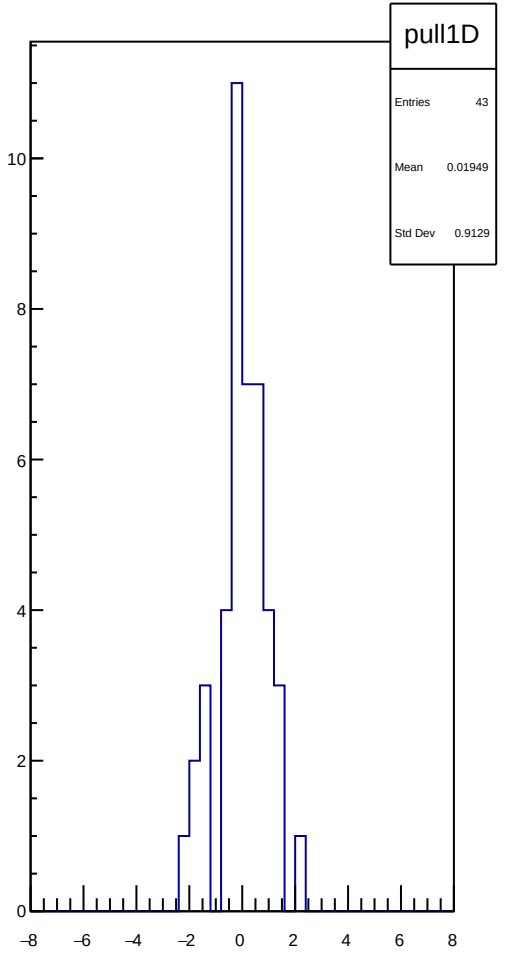

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.484e+04 / 42
p0 114.4 ± 0.1287
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

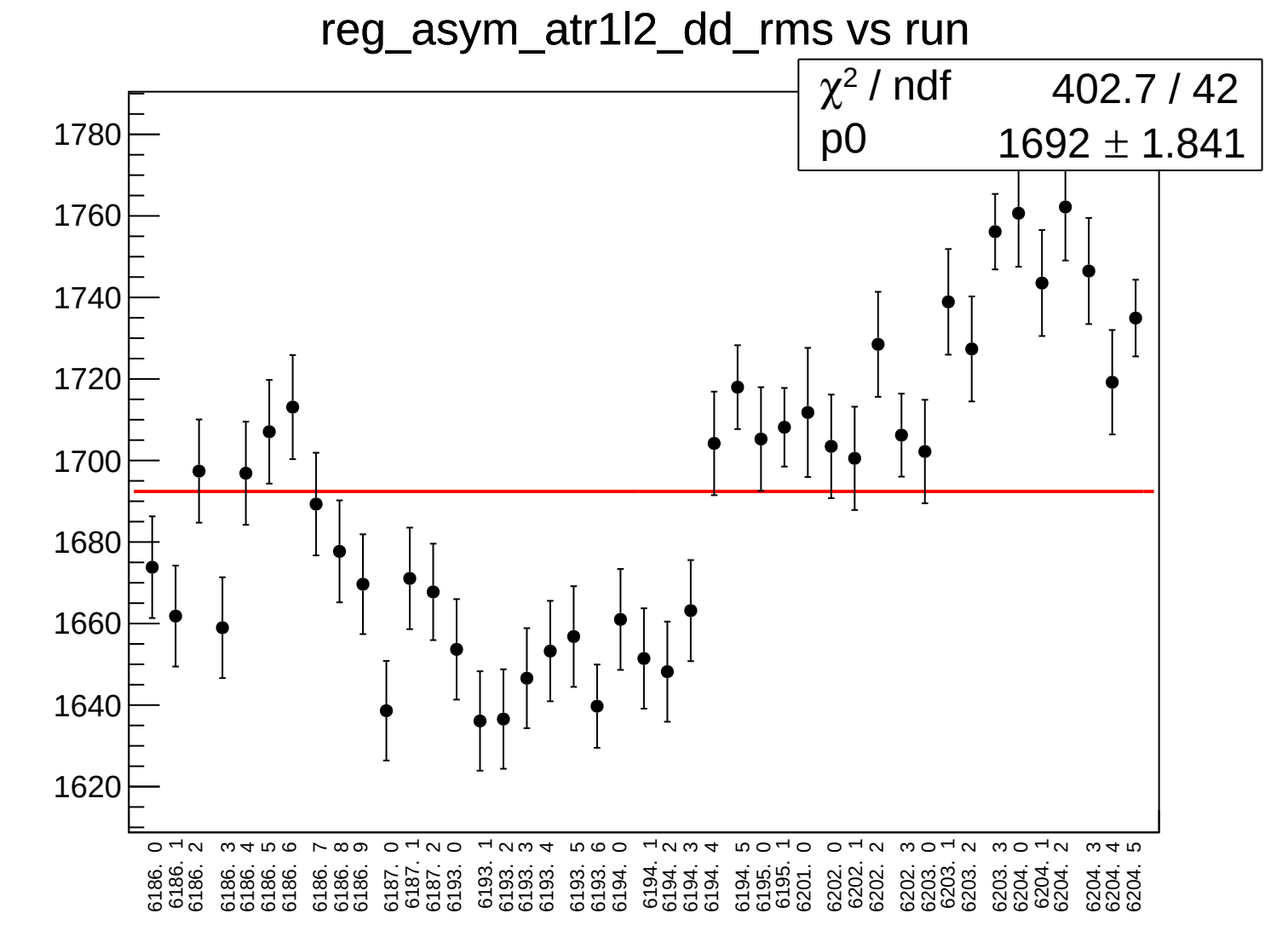

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 46.64 / 42
p0 −1.139e−14 ± 3.459e−13
pull
Entries 43
Mean 12.56
Std Dev 29.63

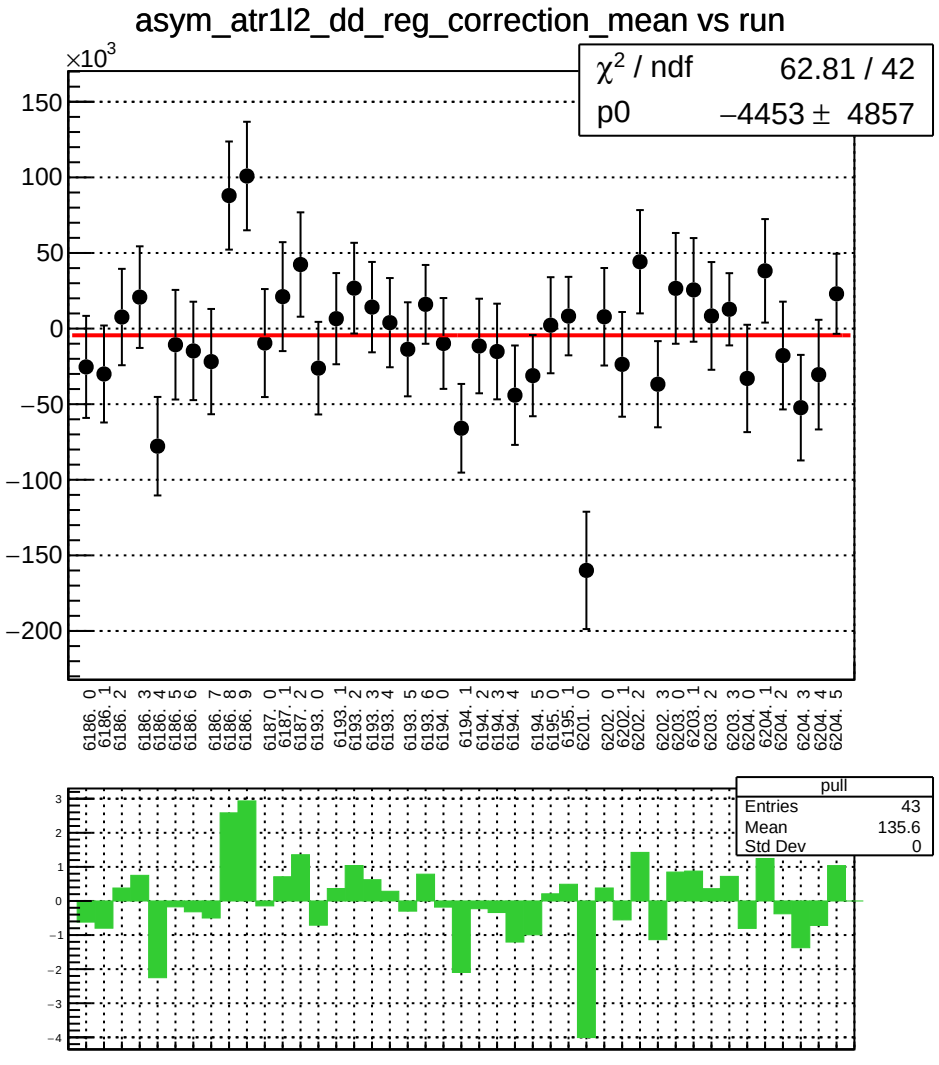

pull1D
Entries 43
Mean 0.02186
Std Dev 1.041

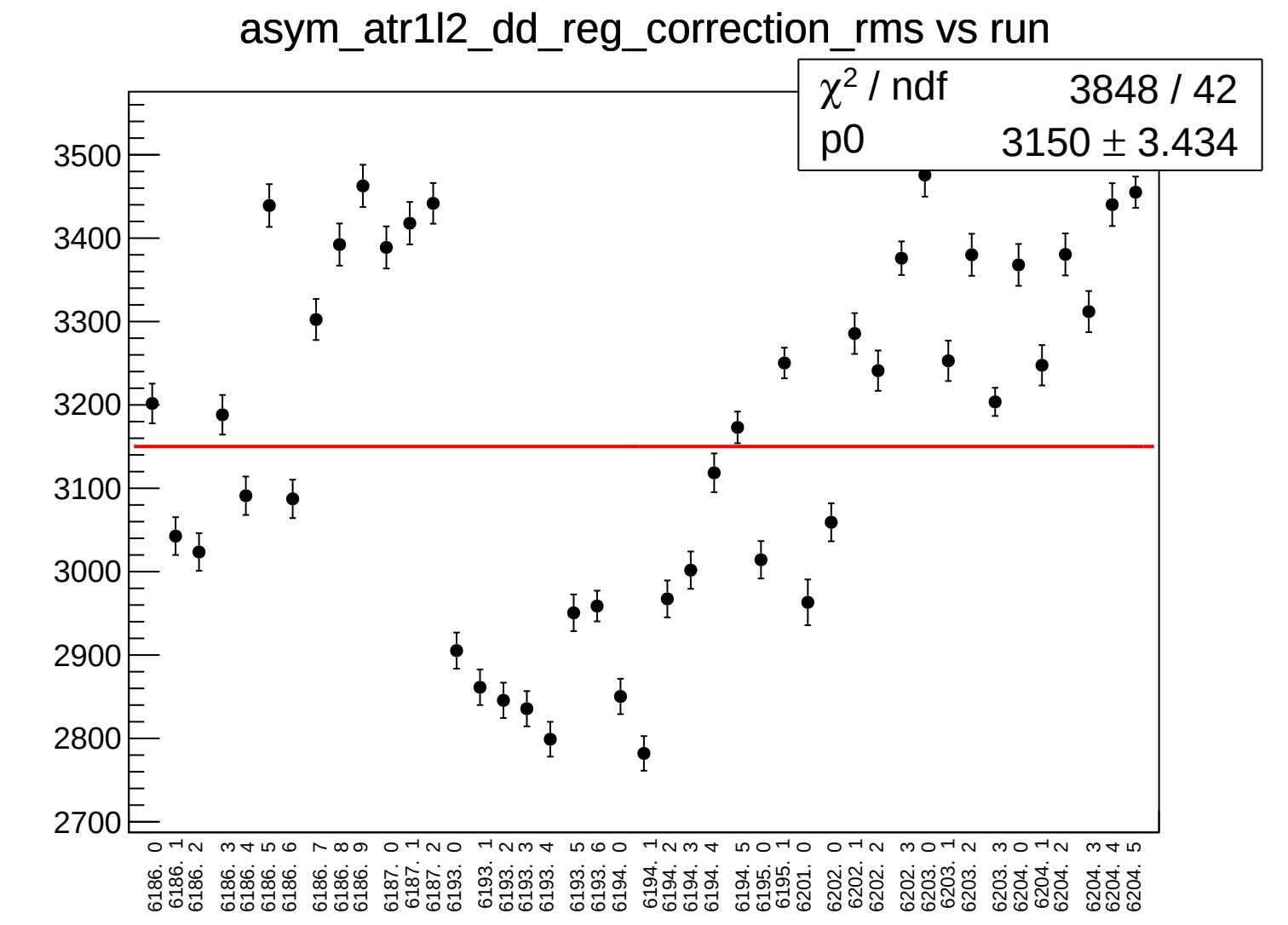

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.825e+05 / 42
p0 1.835e−10 ± 2.446e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

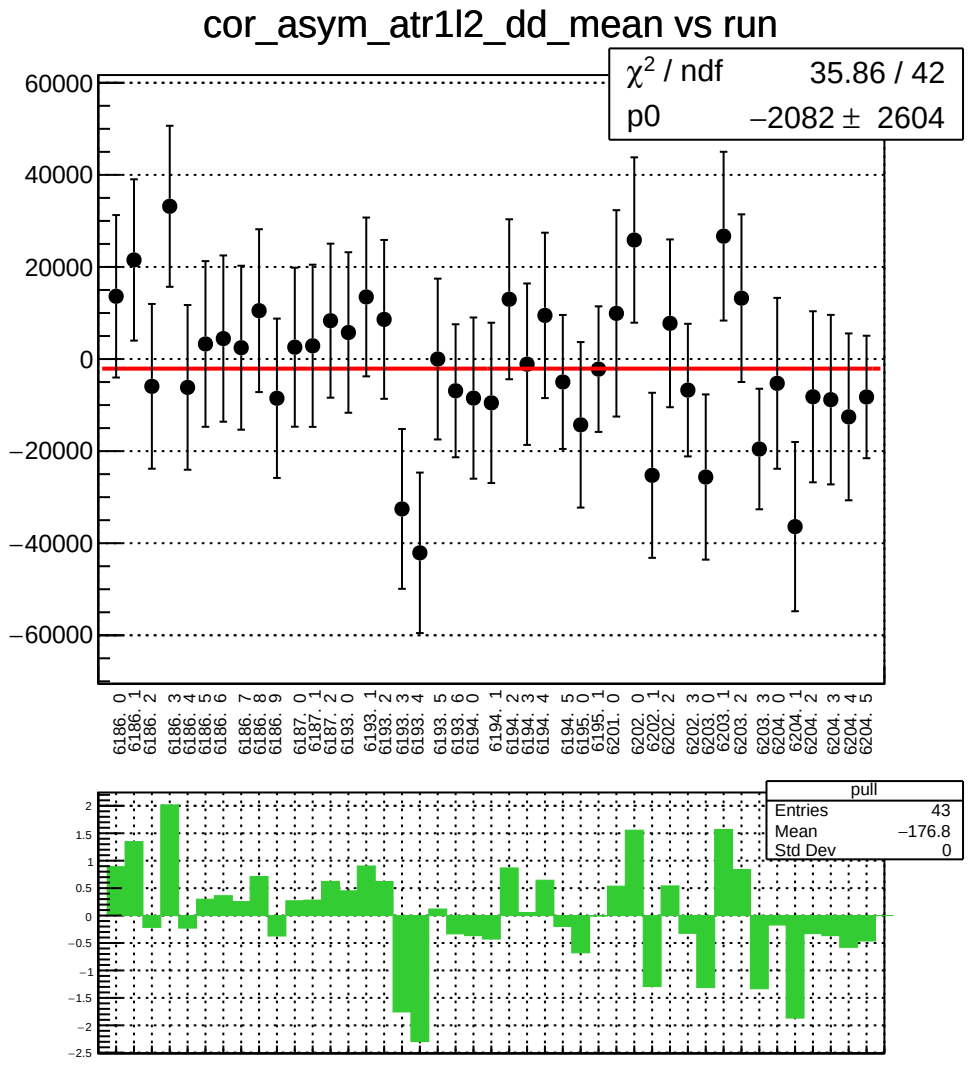

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 35.86 / 42
p0 −2082 ± 2604
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −176.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

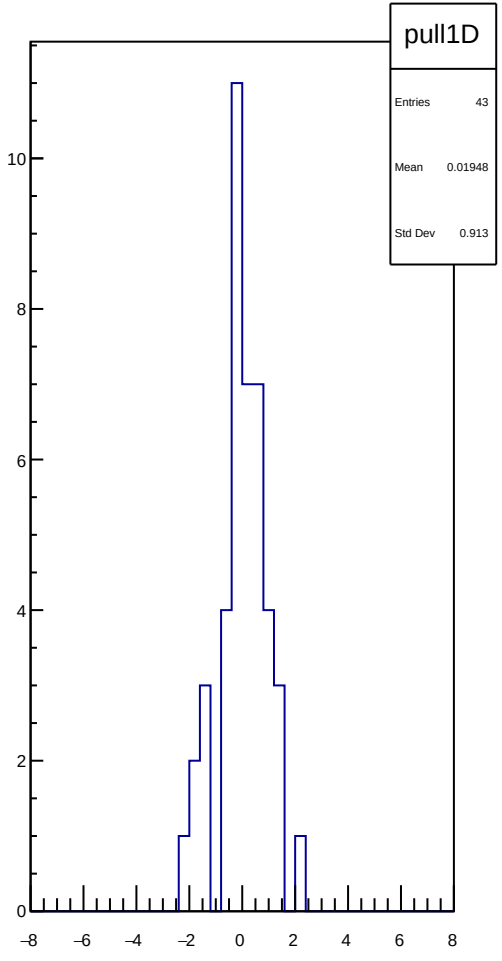

pull1D
Entries 43
Mean 0.01949
Std Dev 0.9129
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

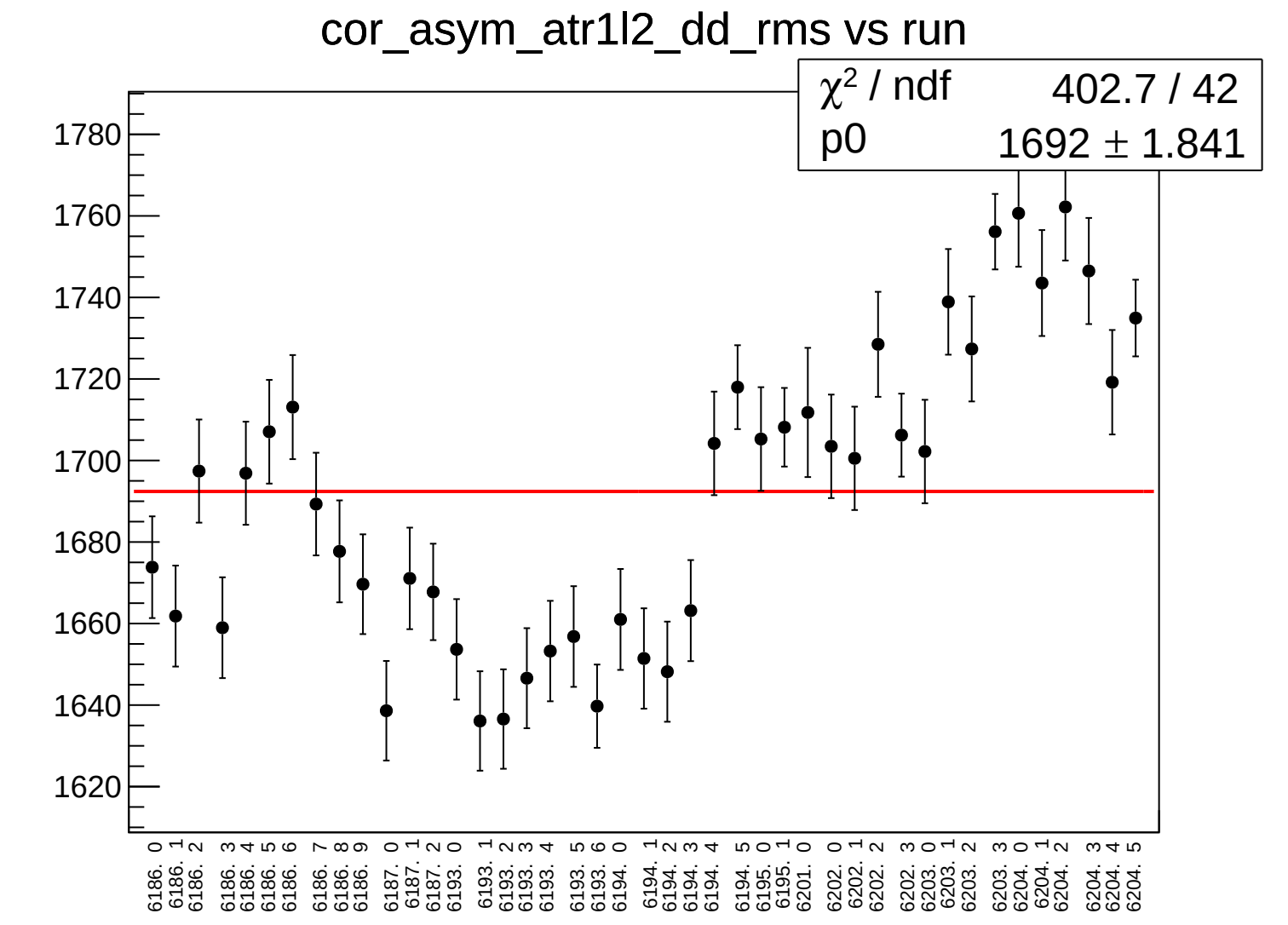

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 402.7 / 42
p0 1692 ± 1.841
1780
1760
1740
1720
1700
1680
1660
1640
1620
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 62.81 / 42
p0 −4453 ± 4857
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 135.6
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.00934
Std Dev 1.209
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 3848 / 42
p0 3150 ± 3.434
3500
3400
3300
3200
3100
3000
2900
2800
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_atr1l2_dd_mean vs run
χ² / ndf 35.86 / 42
p0 −2082 ± 2604
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −176.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 43
Mean 0.01948
Std Dev 0.913
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr1l2_dd_rms vs run
χ² / ndf 402.7 / 42
p0 1692 ± 1.841
1780
1760
1740
1720
1700
1680
1660
1640
1620
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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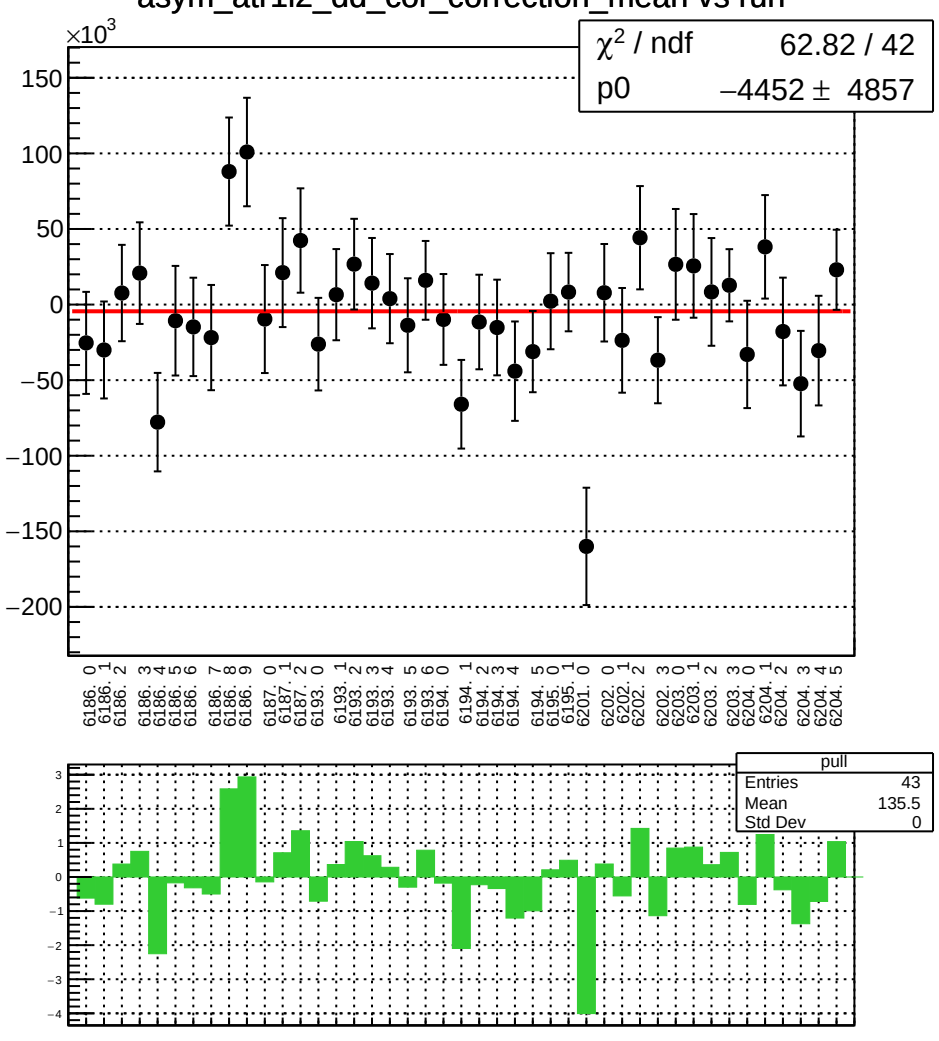
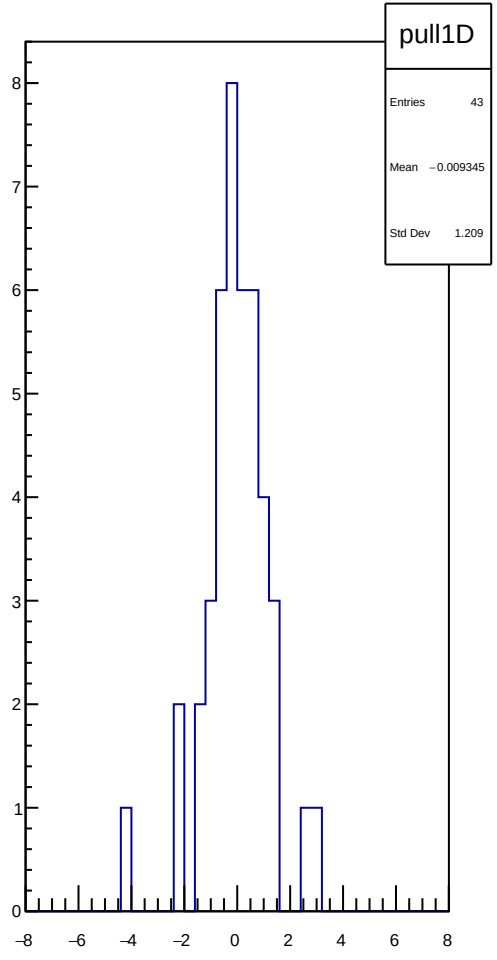
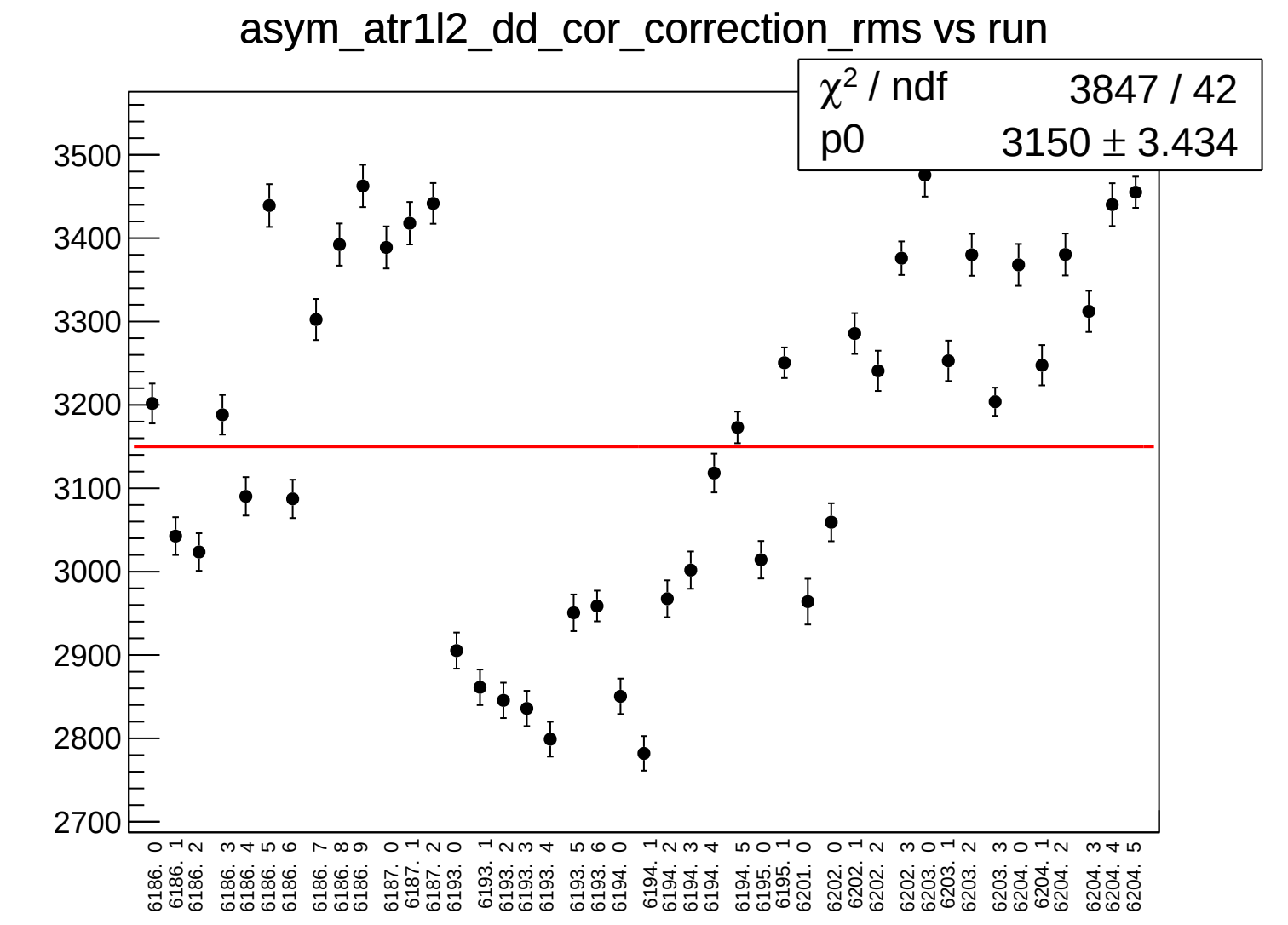
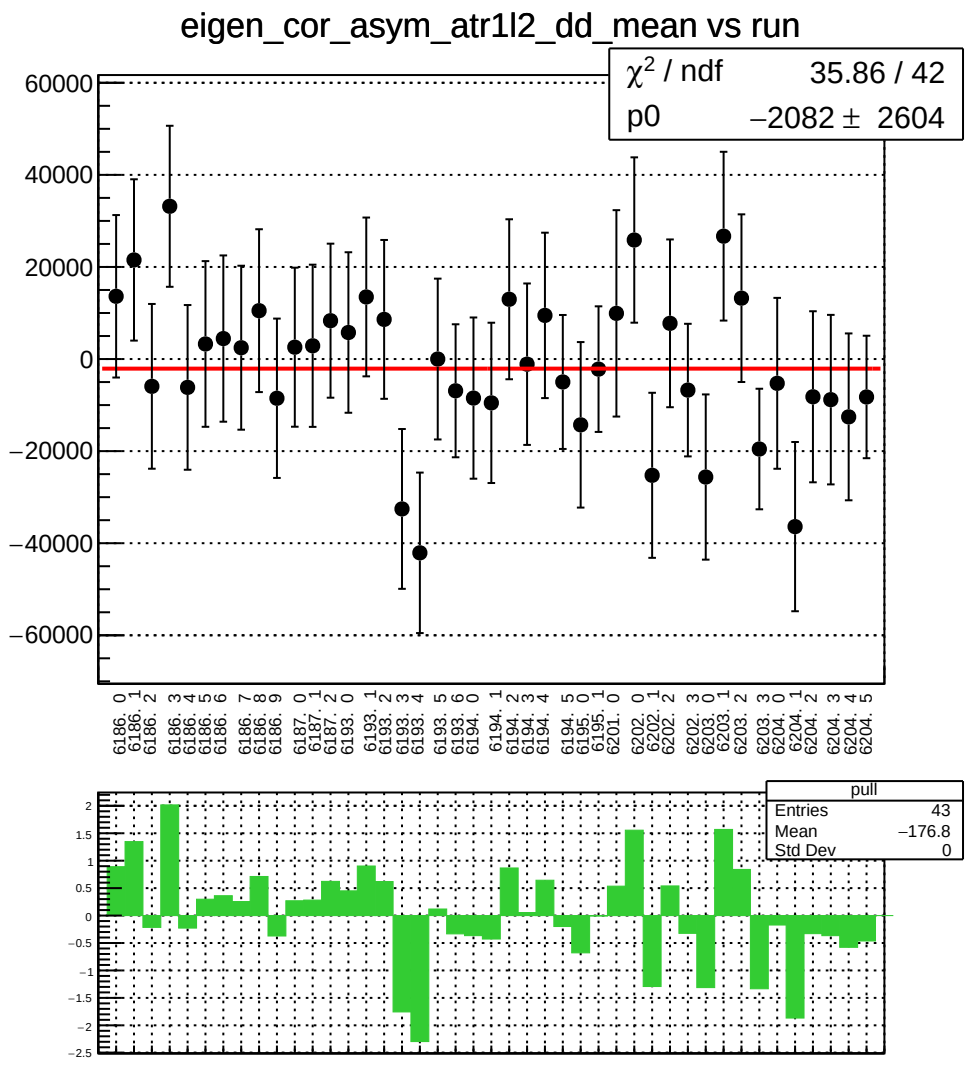
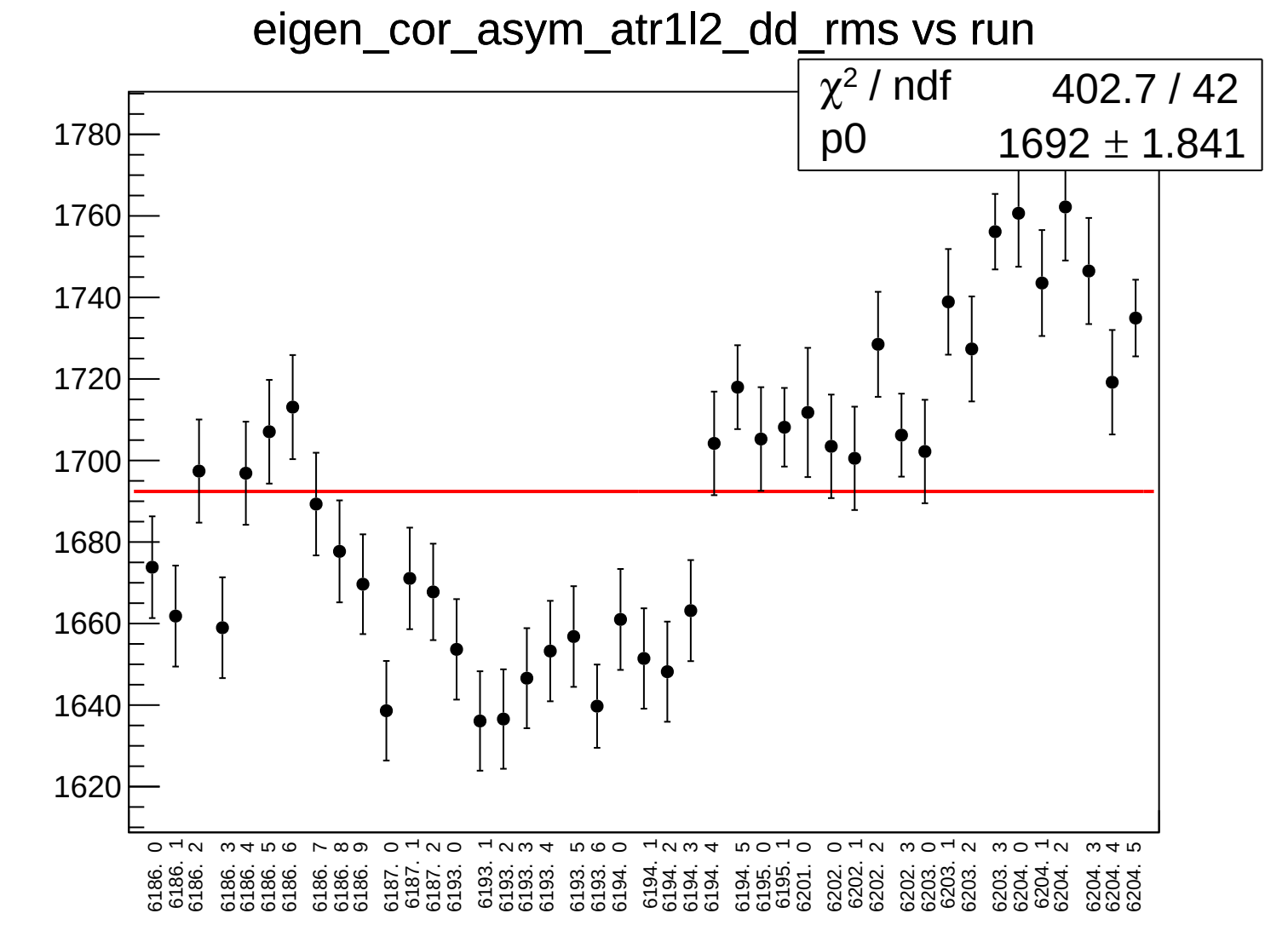
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

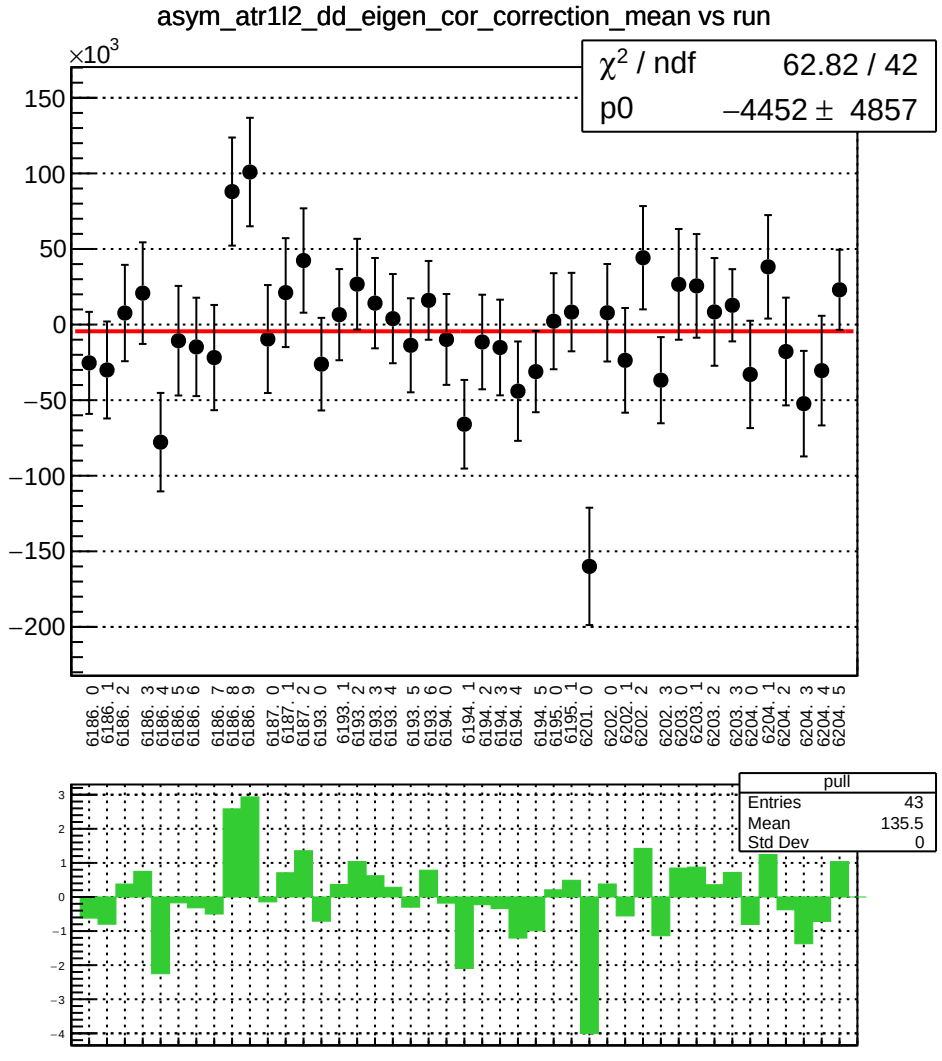

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 62.82 / 42
p0 −4452 ± 4857
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 135.5
Std Dev 0
3
2
1
0
−1
−2
−3
−4

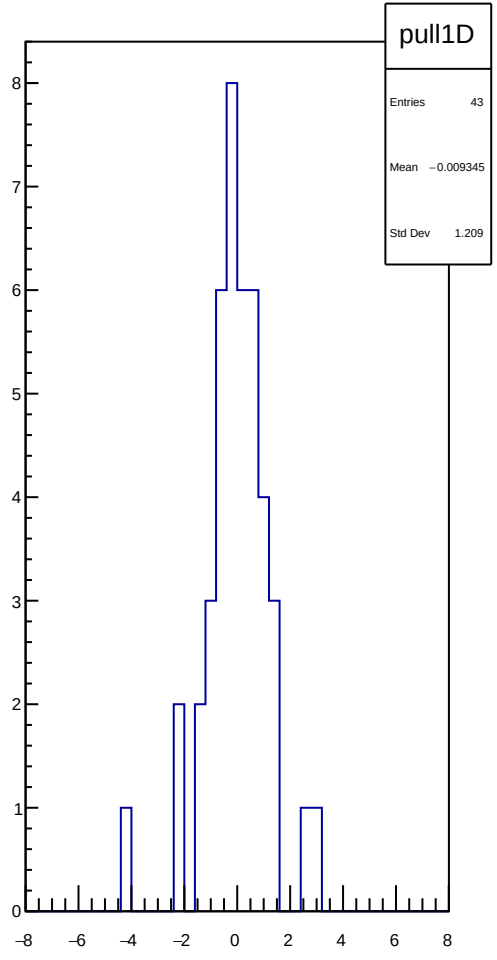

pull1D
Entries 43
Mean −0.009345
Std Dev 1.209
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

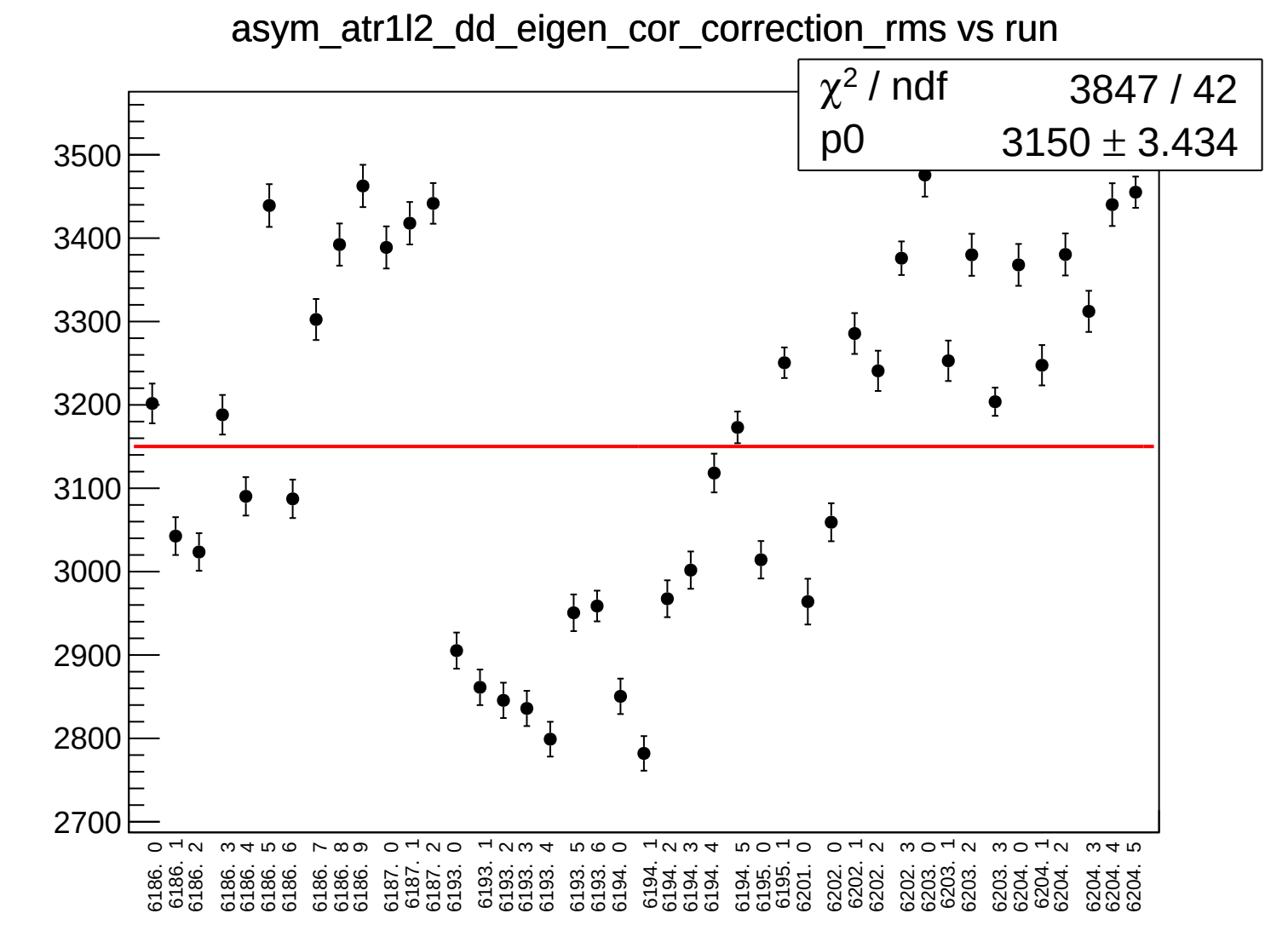

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 3847 / 42
p0 3150 ± 3.434
3500
3400
3300
3200
3100
3000
2900
2800
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

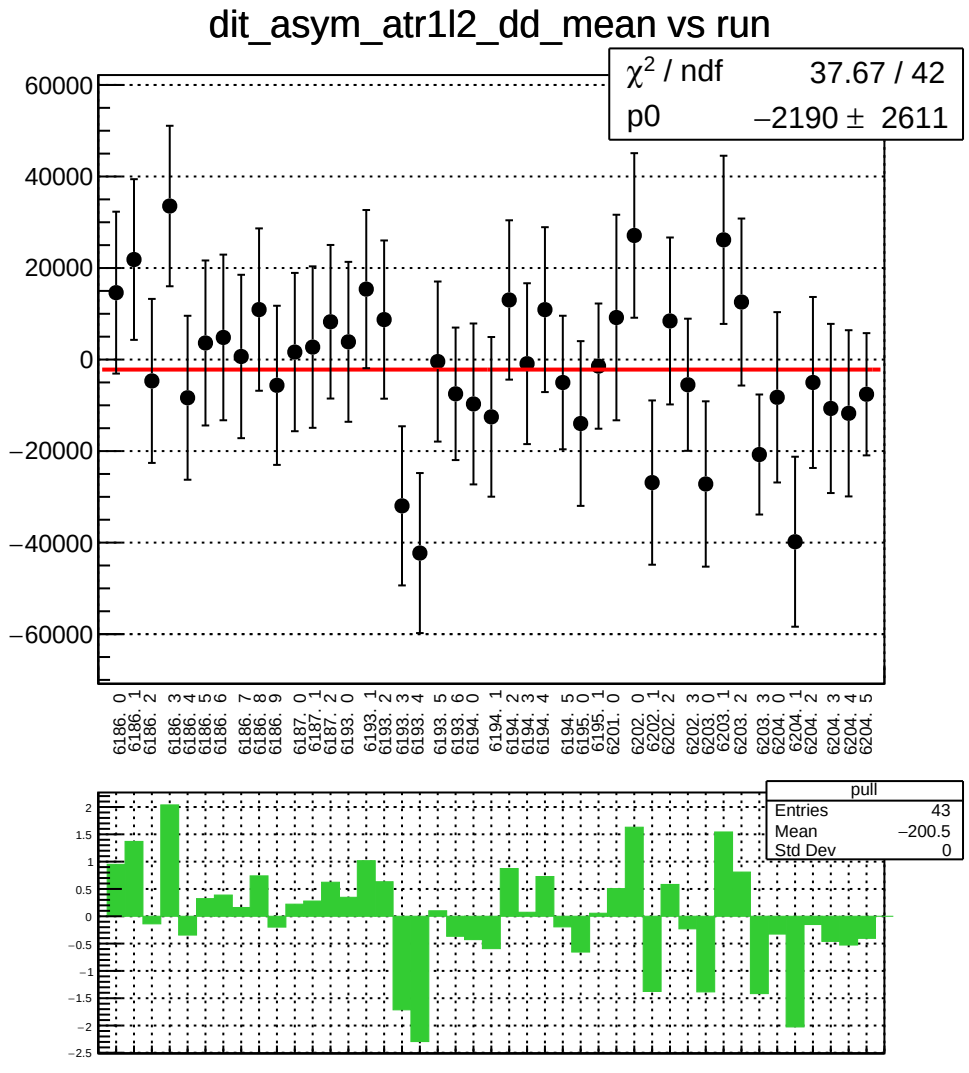

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 35.86 / 42
p0 −2082 ± 2604
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −176.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.01948
Std Dev 0.913
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

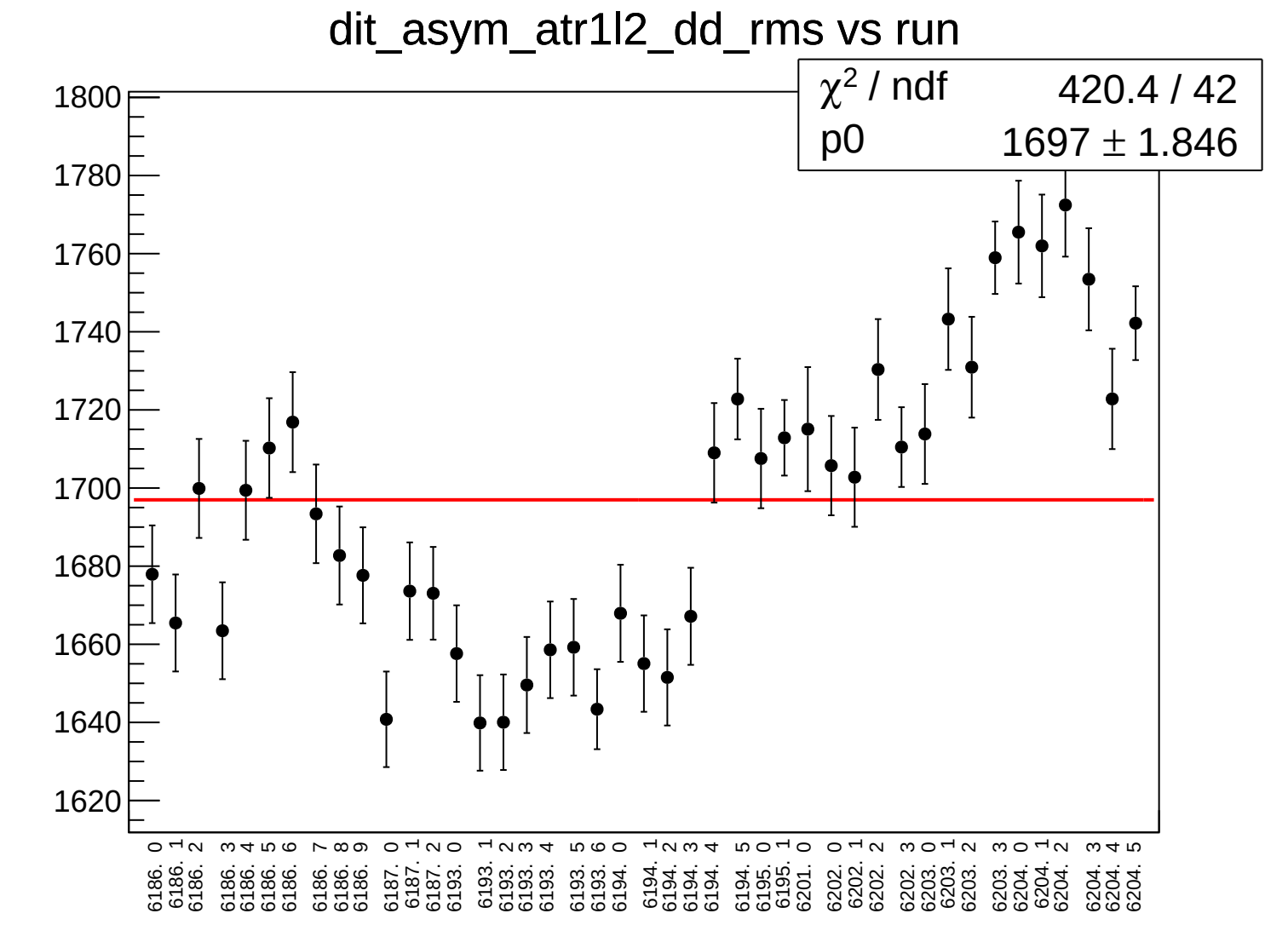

eigen_cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 402.7 / 42
p0 1692 ± 1.841
1780
1760
1740
1720
1700
1680
1660
1640
1620
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

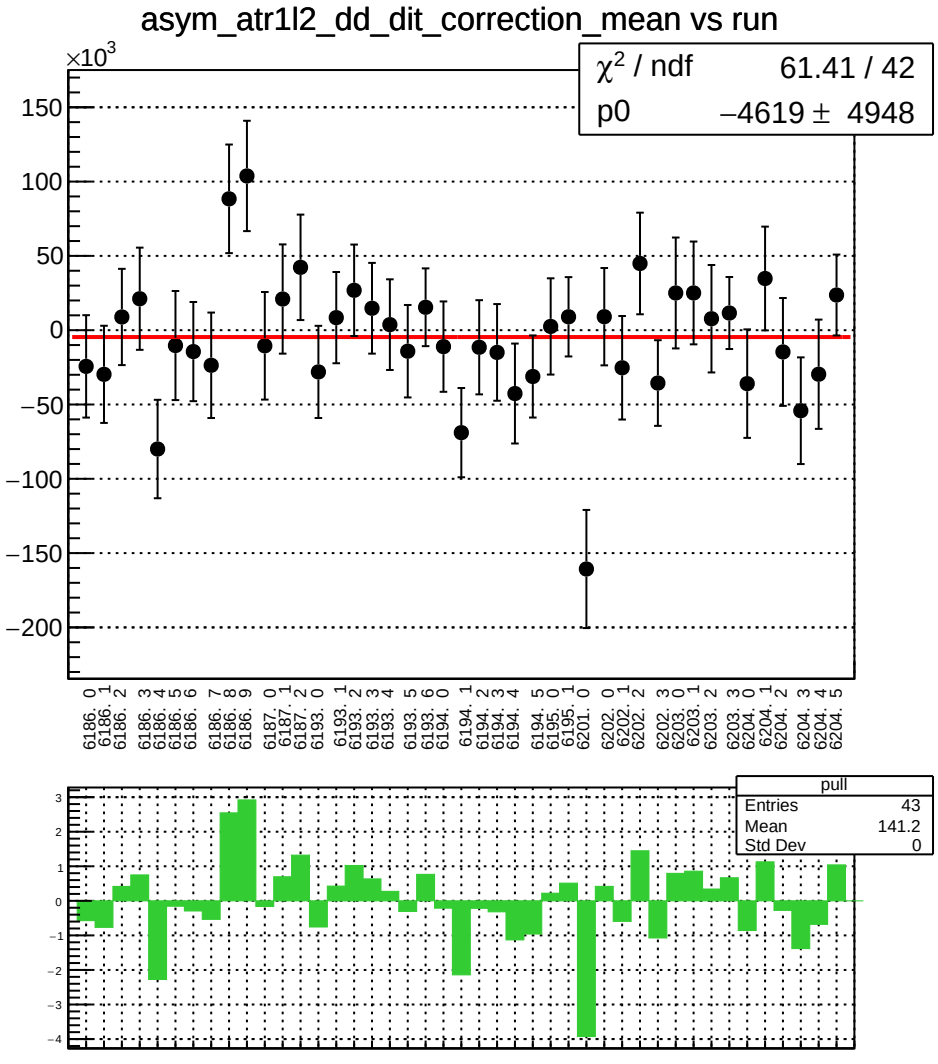

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 62.82 / 42
p0 −4452 ± 4857
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 135.5
Std Dev 0
3
2
1
0
−1
−2
−3
−4

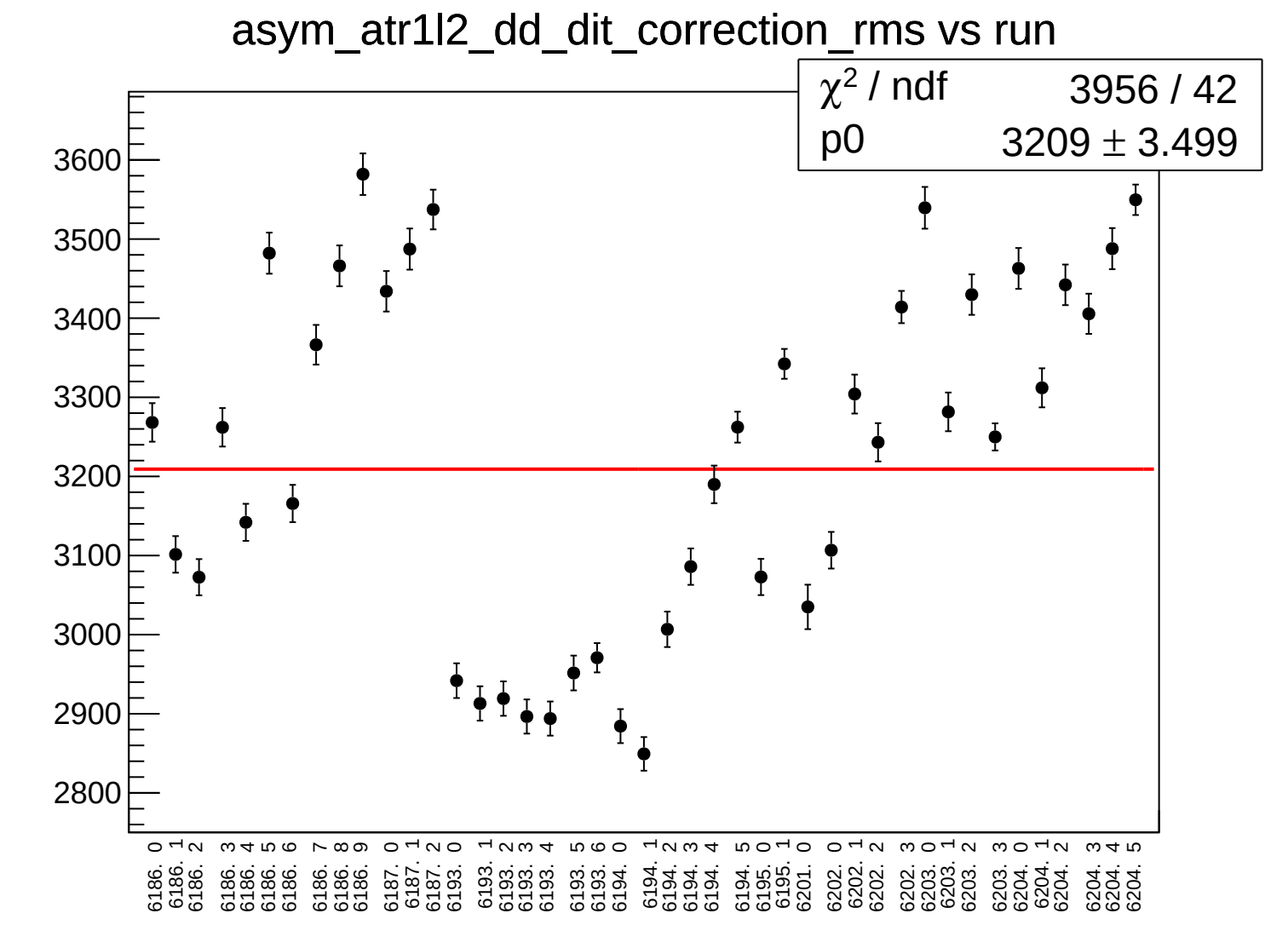

pull1D
Entries 43
Mean −0.009345
Std Dev 1.209
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

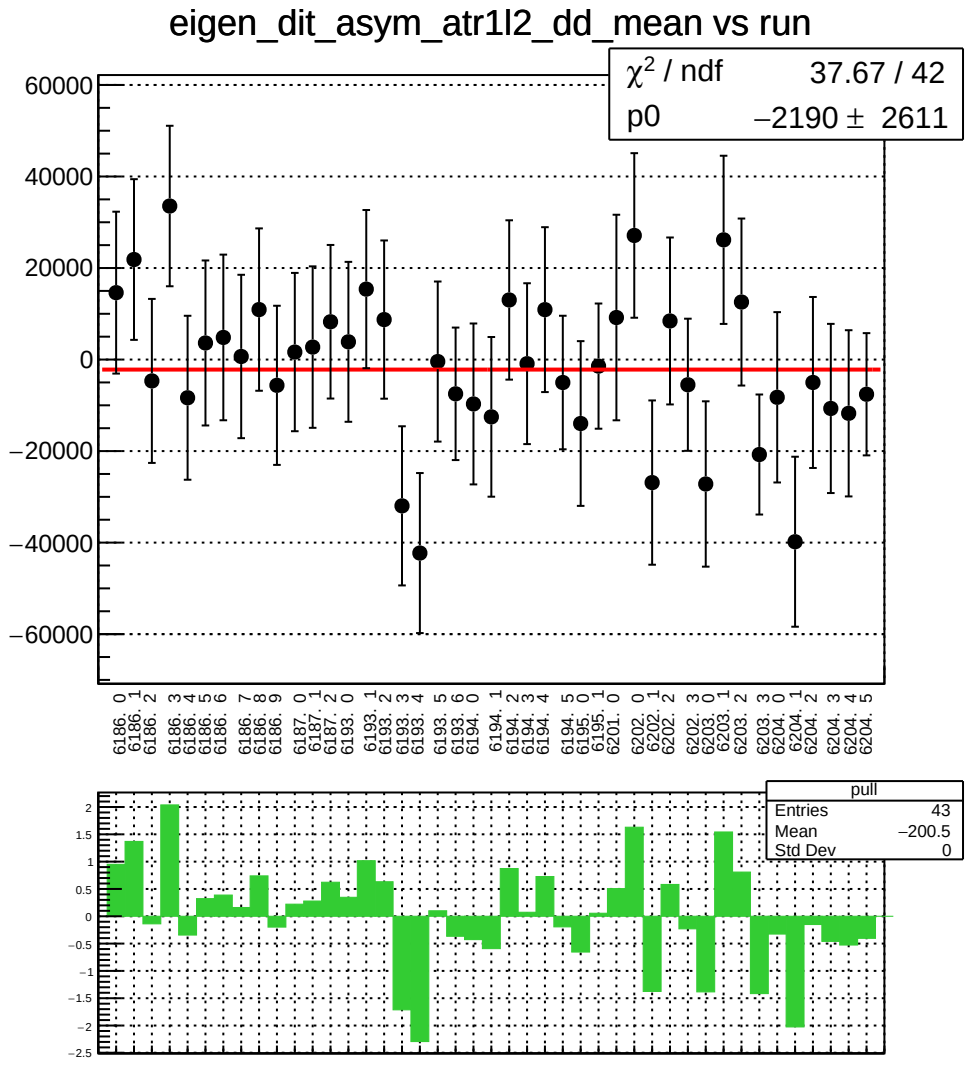

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3847 / 42
p0 3150 ± 3.434
3500
3400
3300
3200
3100
3000
2900
2800
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

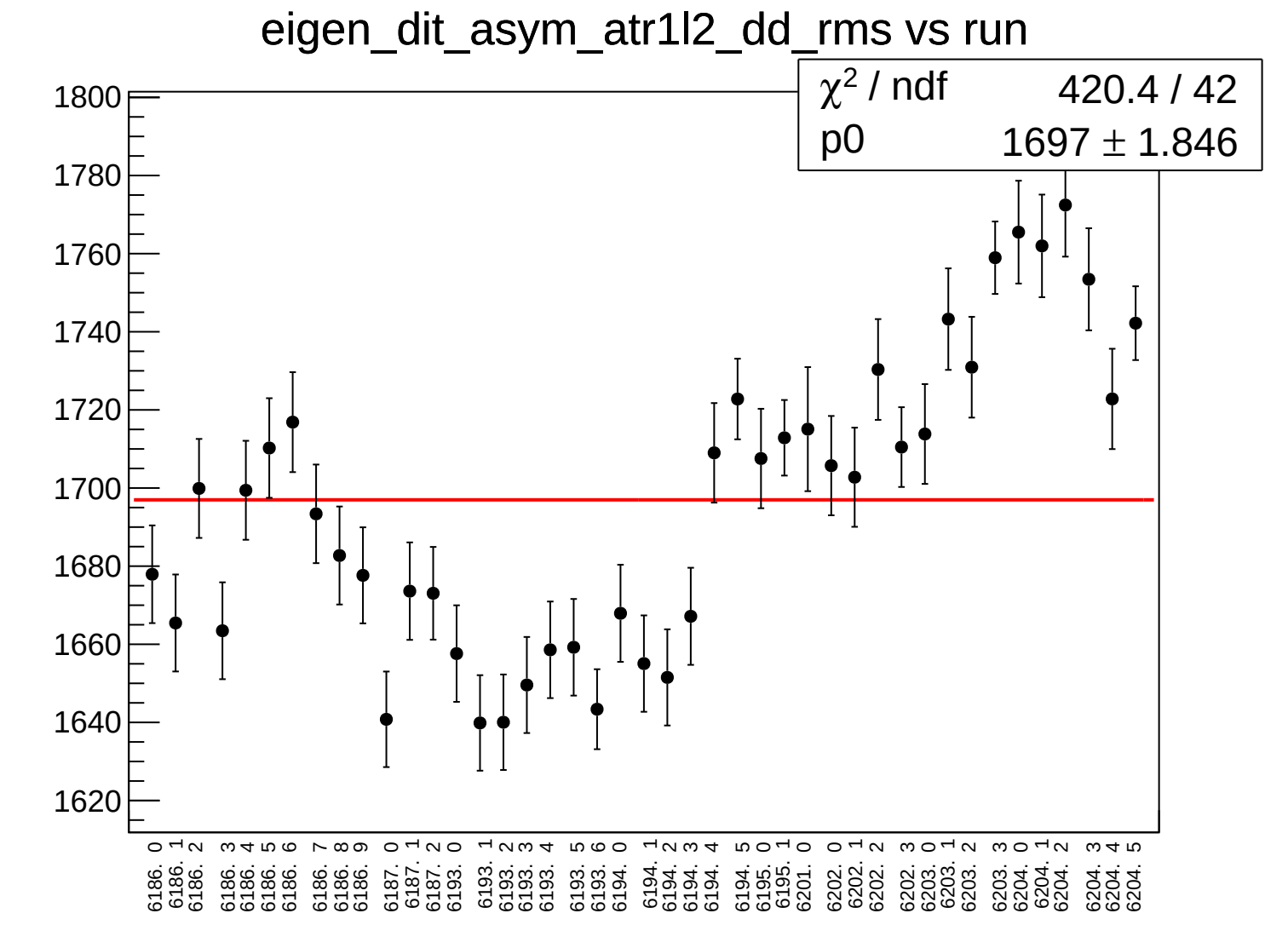

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 37.67 / 42
p0 −2190 ± 2611
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −200.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.01797
Std Dev 0.9358
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

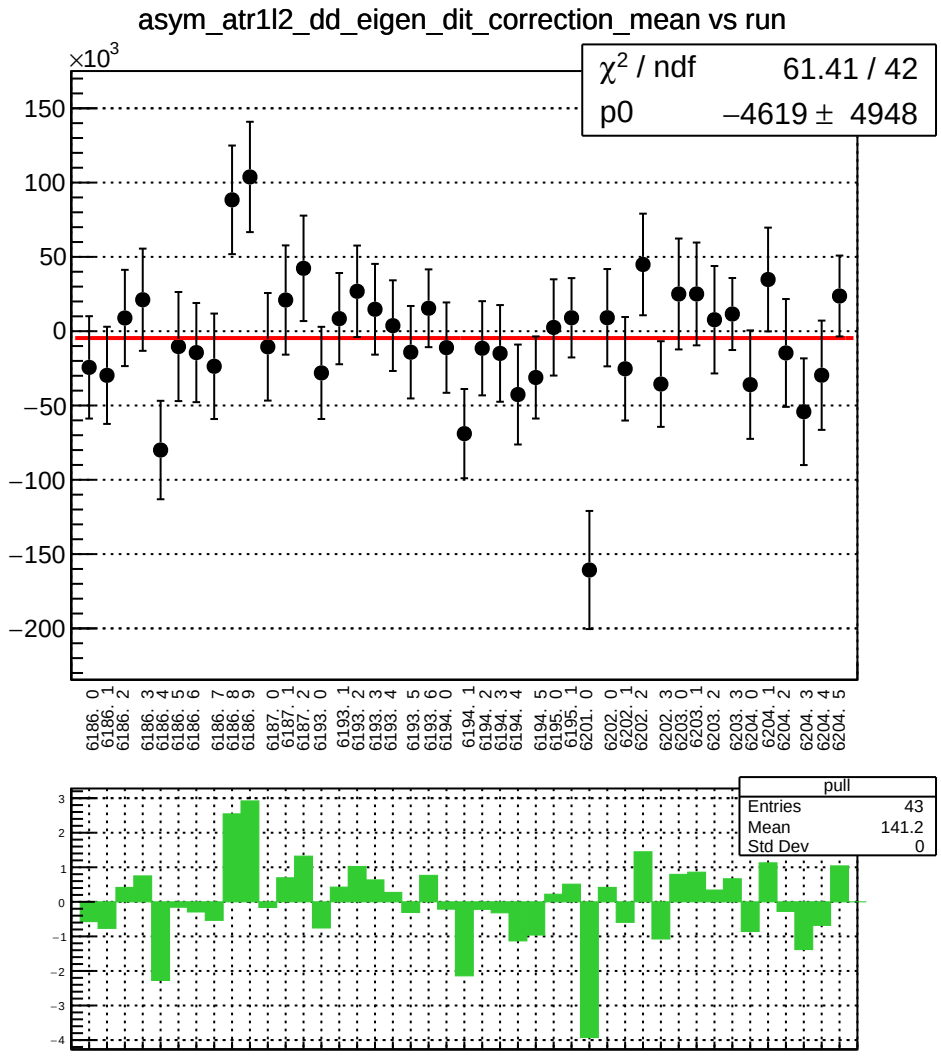

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 420.4 / 42
p0 1697 ± 1.846
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

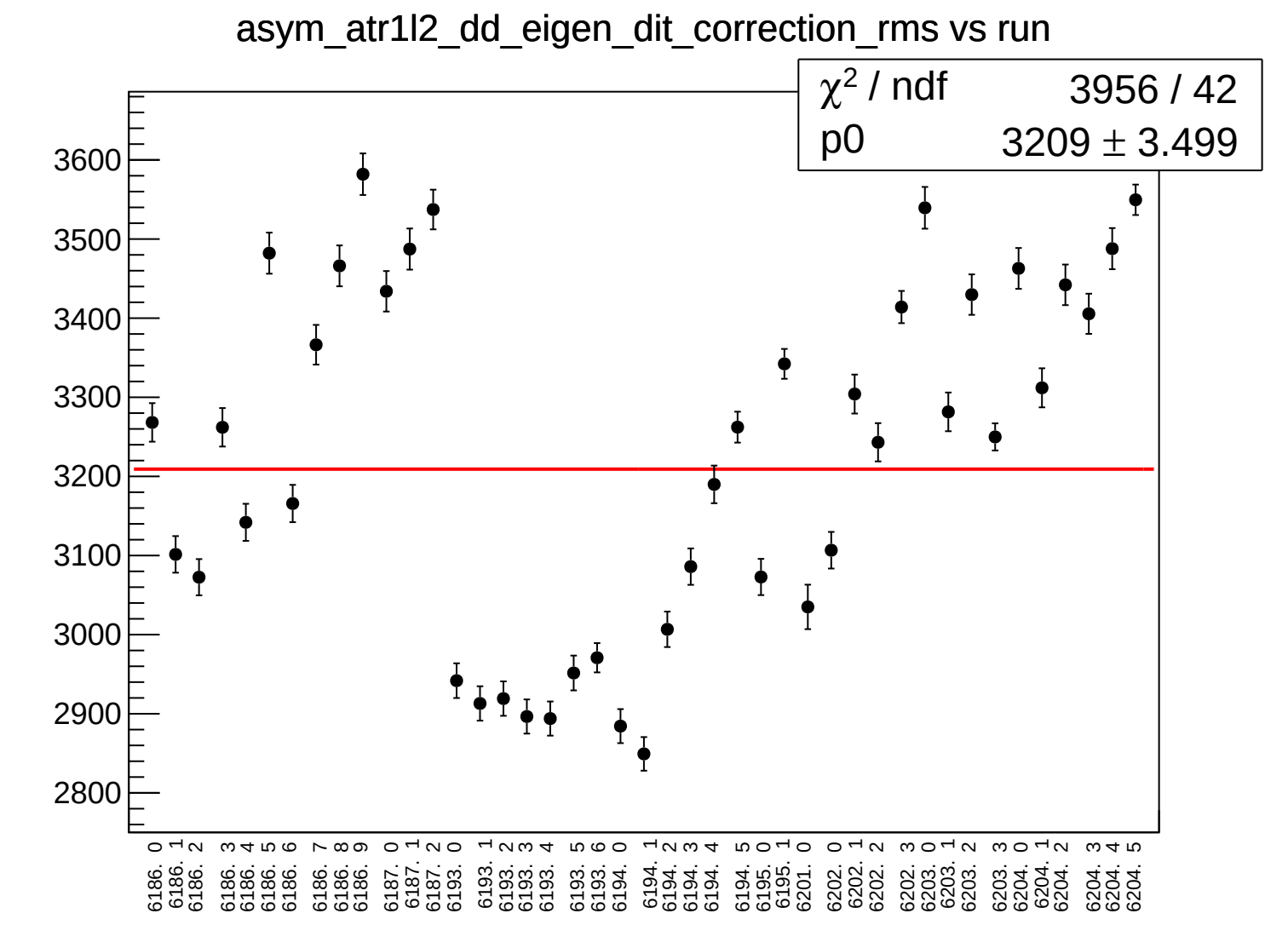

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 61.41 / 42
p0 −4619 ± 4948
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 141.2
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.009081
Std Dev 1.195
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

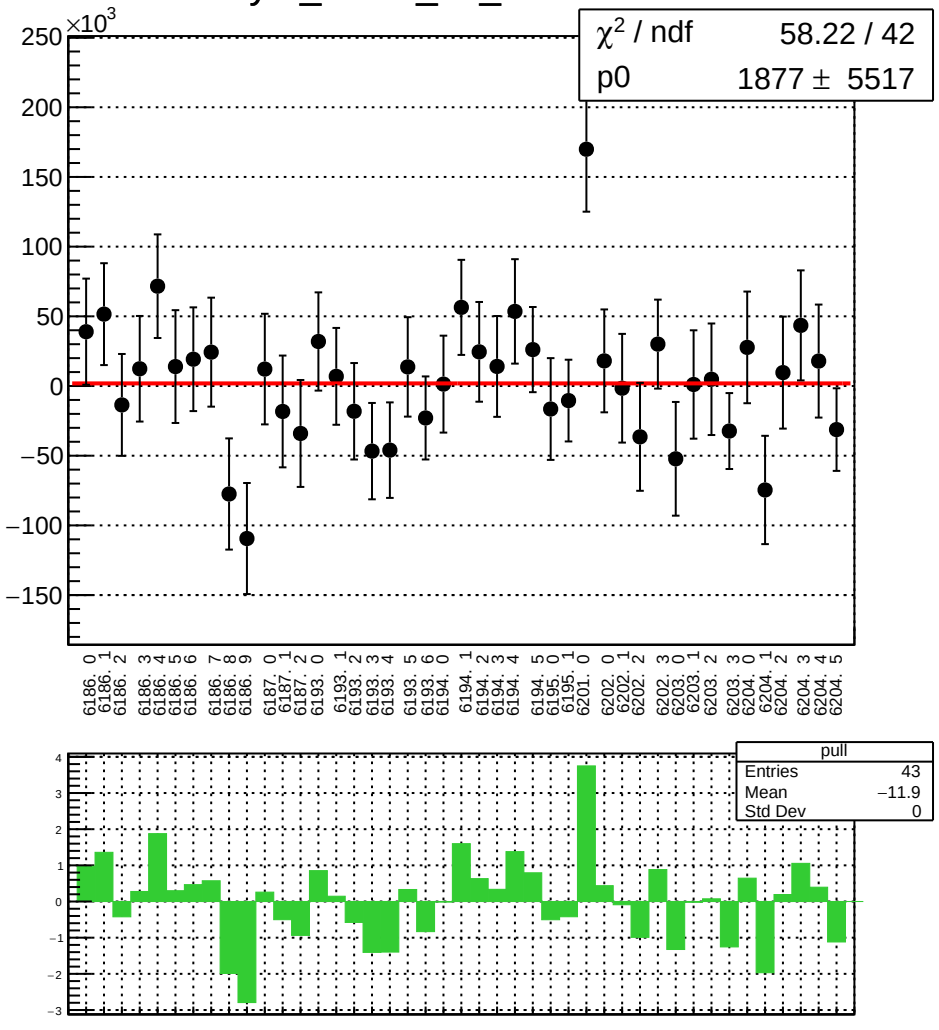

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 3956 / 42
p0 3209 ± 3.499
3600
3500
3400
3300
3200
3100
3000
2900
2800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

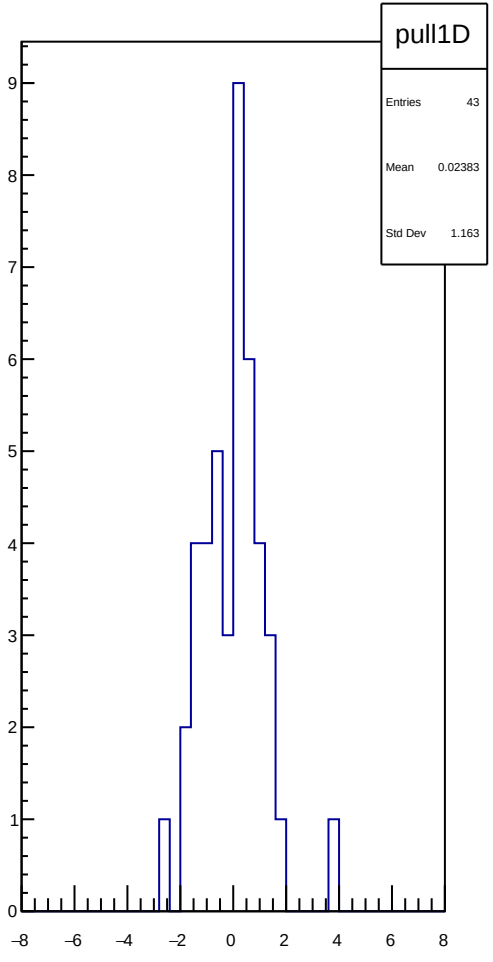

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 37.67 / 42
p0 −2190 ± 2611
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −200.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.01797
Std Dev 0.9358
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

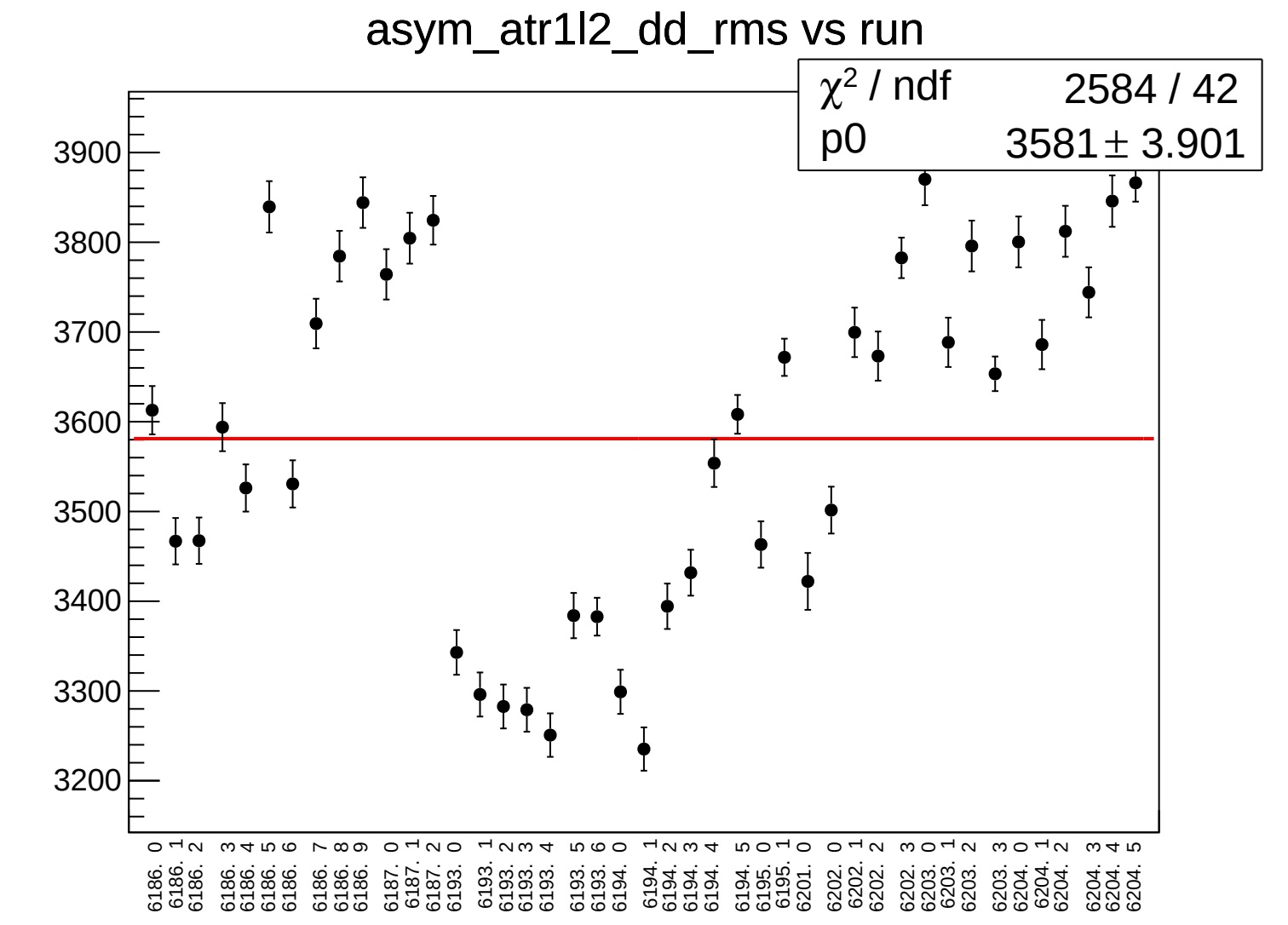

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 420.4 / 42
p0 1697 ± 1.846
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

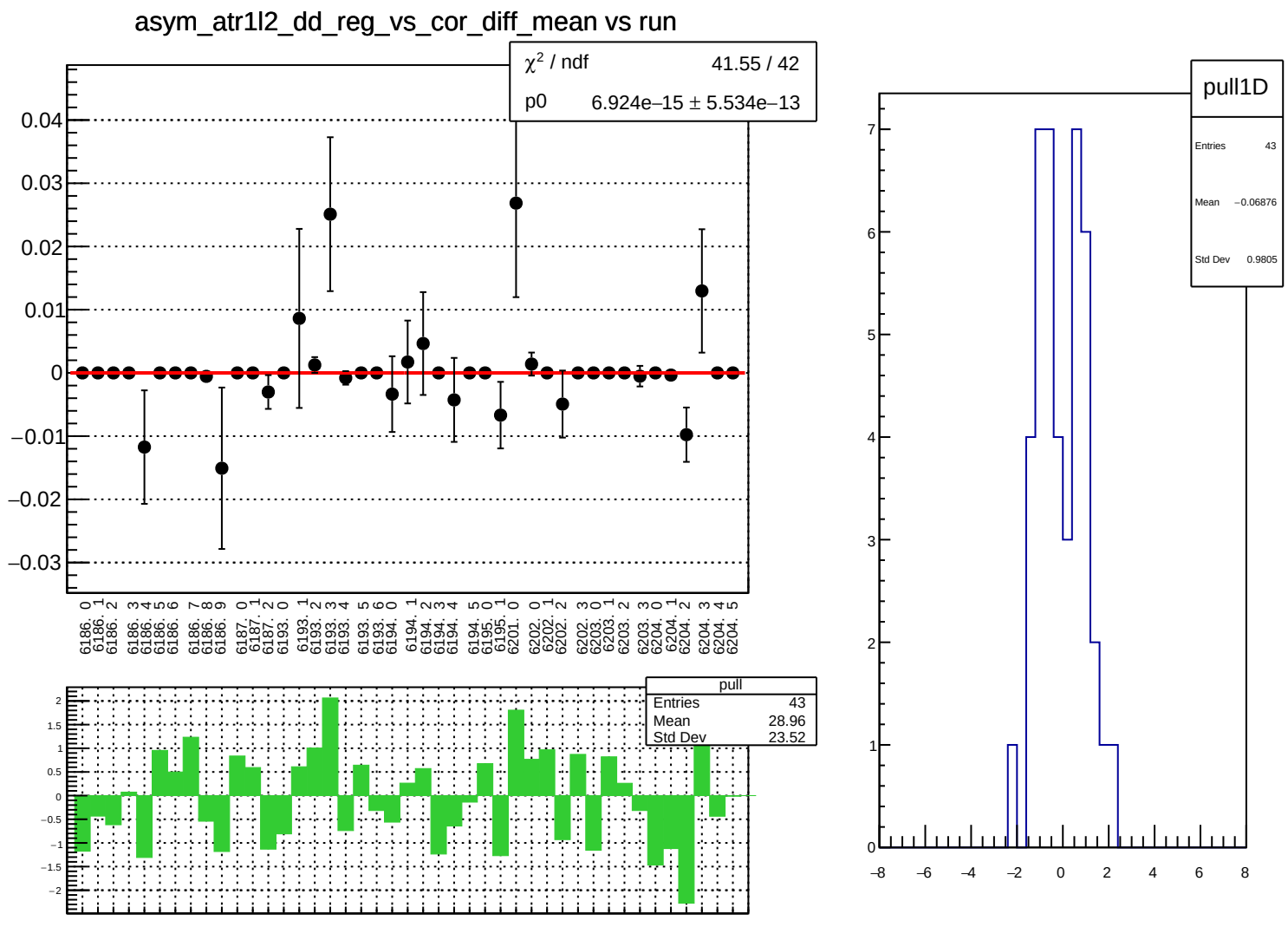

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 61.41 / 42
p0 −4619 ± 4948
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 141.2
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.009081
Std Dev 1.195
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

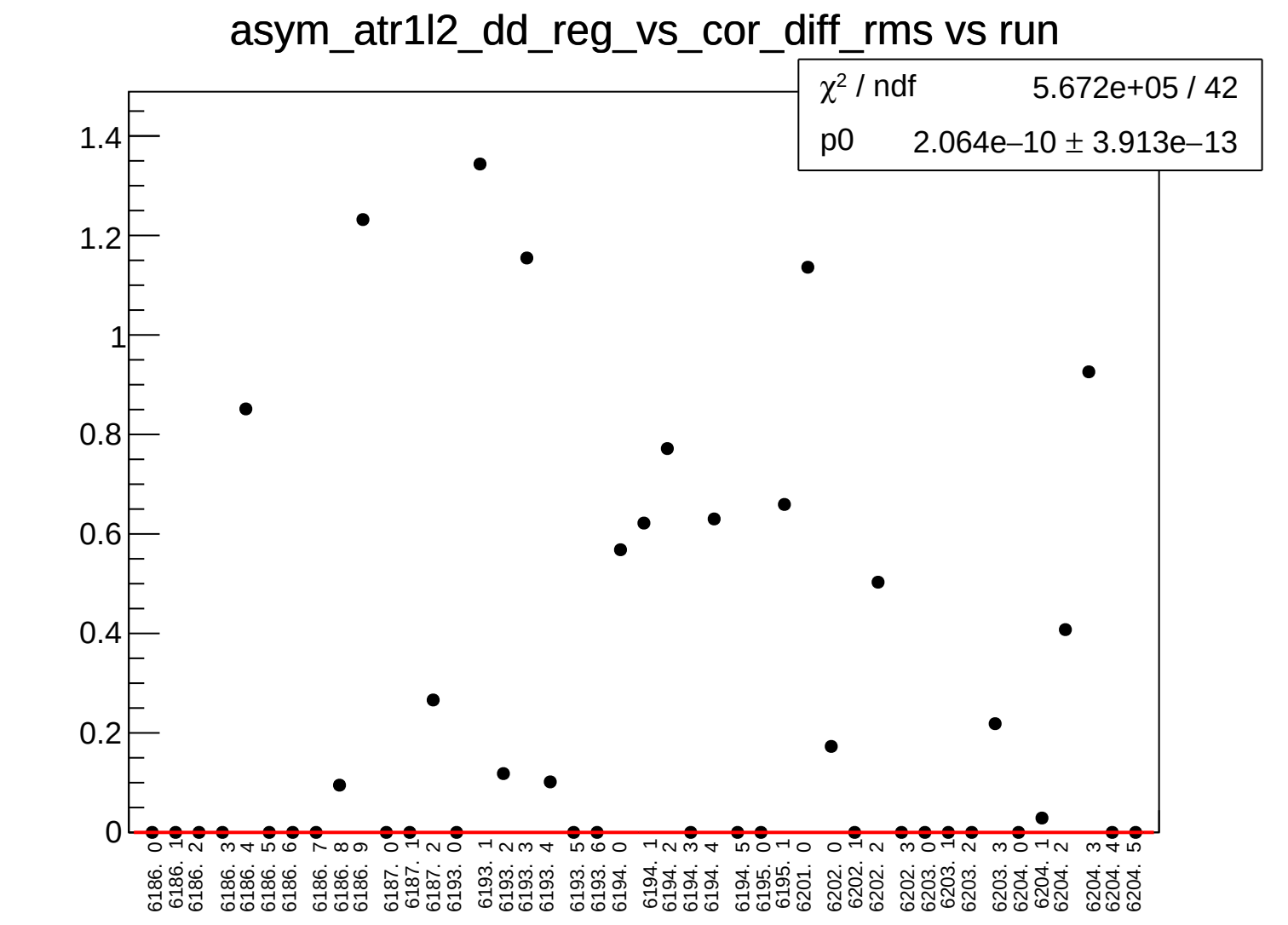

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3956 / 42
p0 3209 ± 3.499
3600
3500
3400
3300
3200
3100
3000
2900
2800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

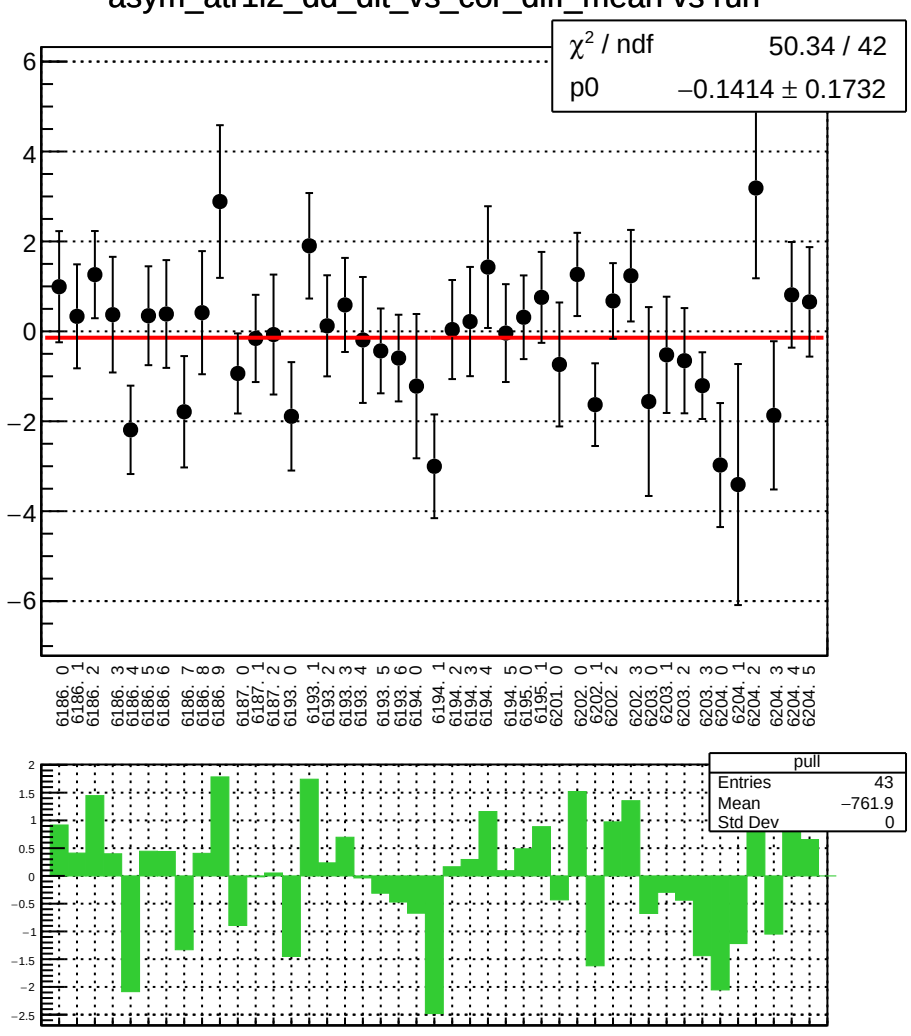

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 58.22 / 42
p0 1877 ± 5517
pull
Entries 43
Mean −11.9
Std Dev 0

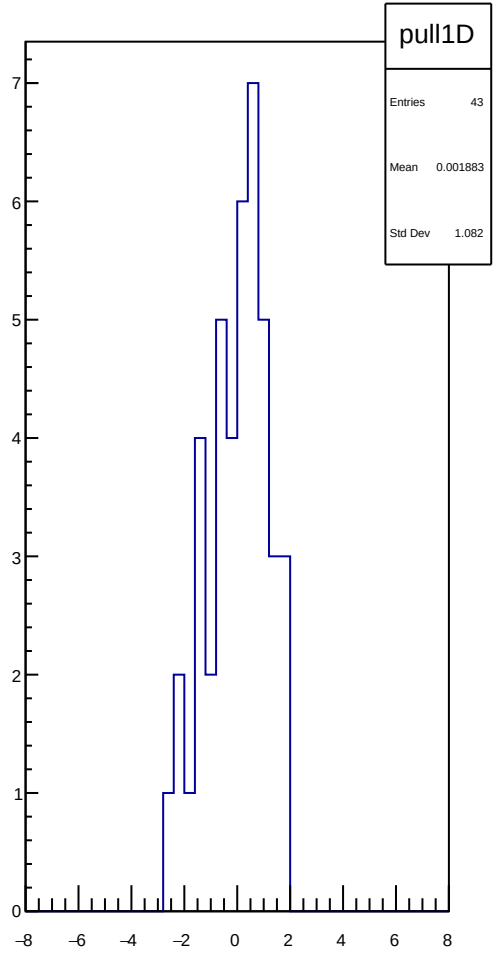

pull1D
Entries 43
Mean 0.02383
Std Dev 1.163

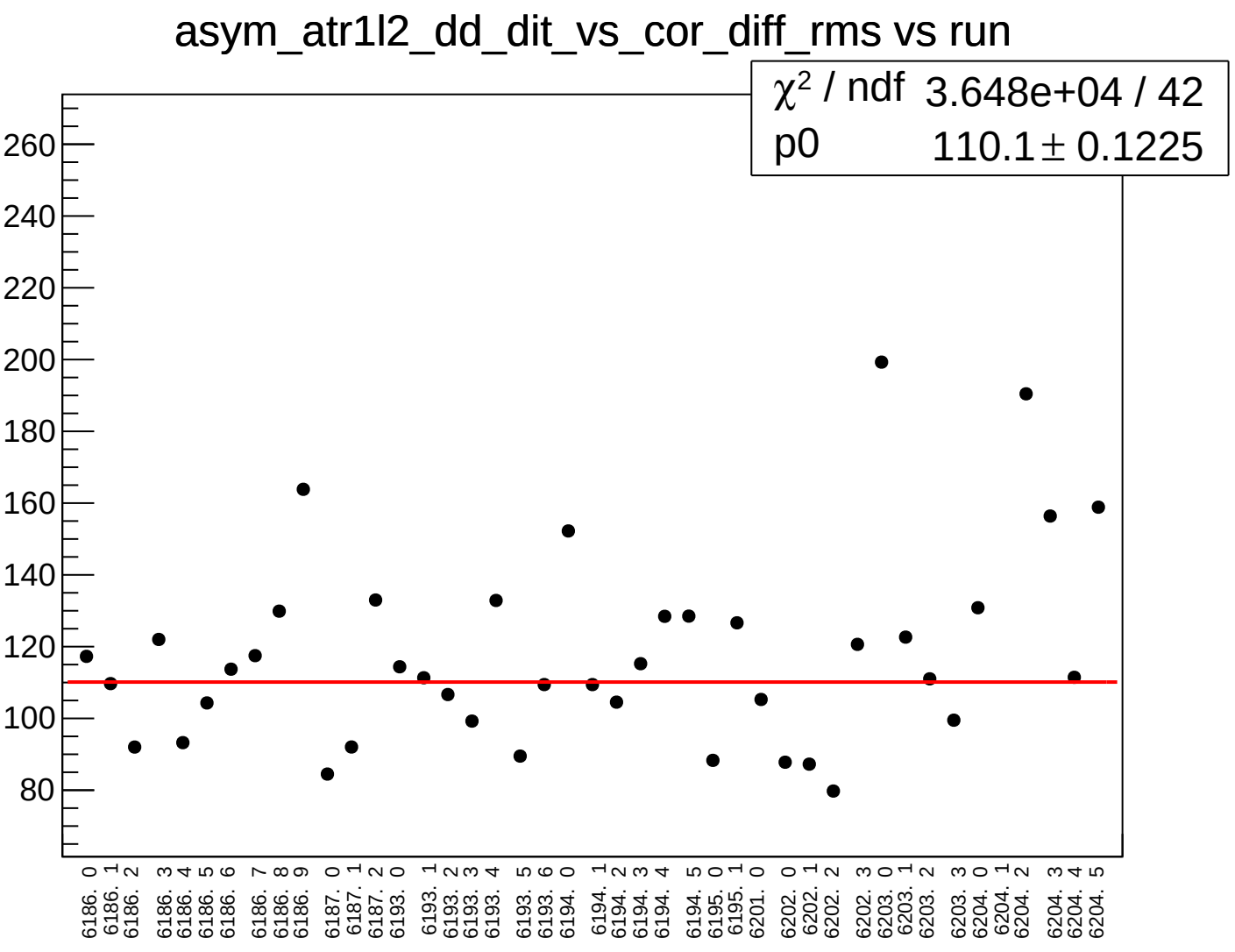

asym_atr1l2_dd_rms vs run
χ² / ndf 2584 / 42
p0 3581 ± 3.901
3900
3800
3700
3600
3500
3400
3300
3200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 41.55 / 42
p0 6.924e−15 ± 5.534e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 28.96
Std Dev 23.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.06876
Std Dev 0.9805
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

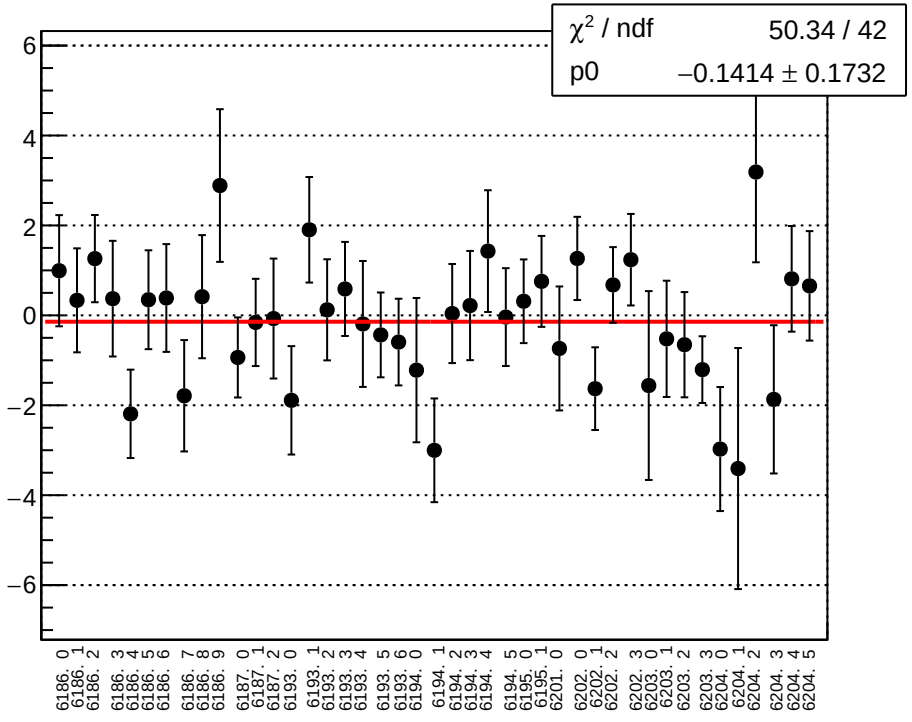

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.672e+05 / 42
p0 2.064e−10 ± 3.913e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

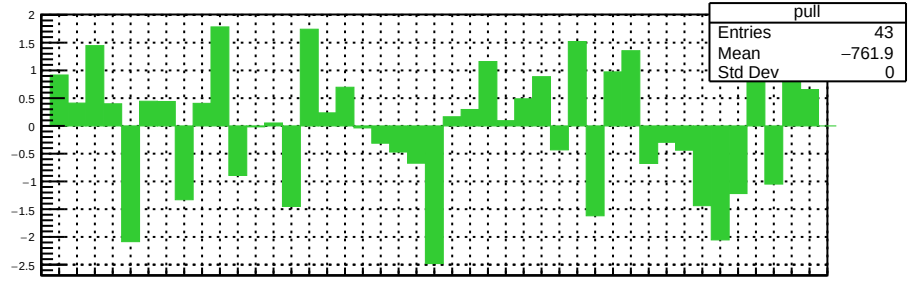

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 50.34 / 42
p0 −0.1414 ± 0.1732
pull
Entries 43
Mean −761.9
Std Dev 0

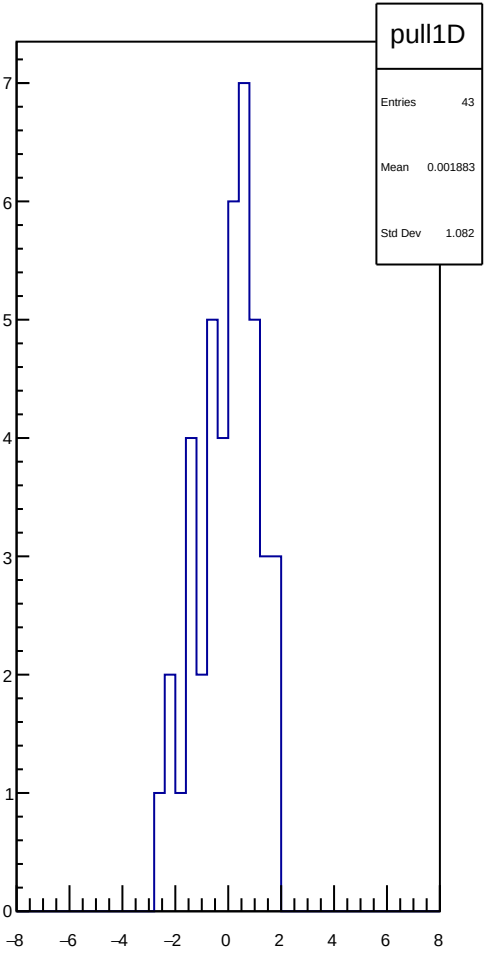

pull1D
Entries 43
Mean 0.001883
Std Dev 1.082

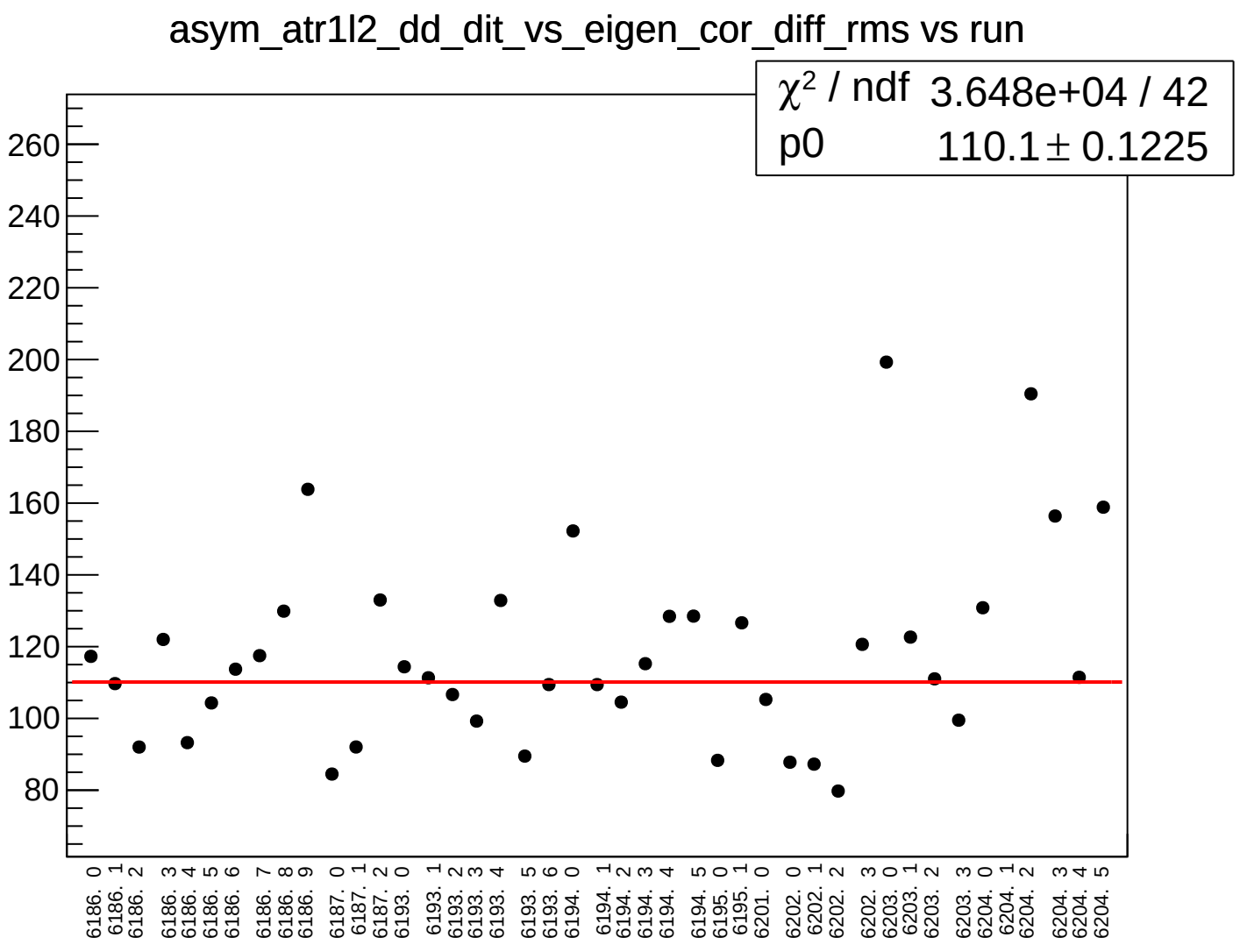

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.648e+04 / 42
p0 110.1 ± 0.1225
260
240
220
200
180
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

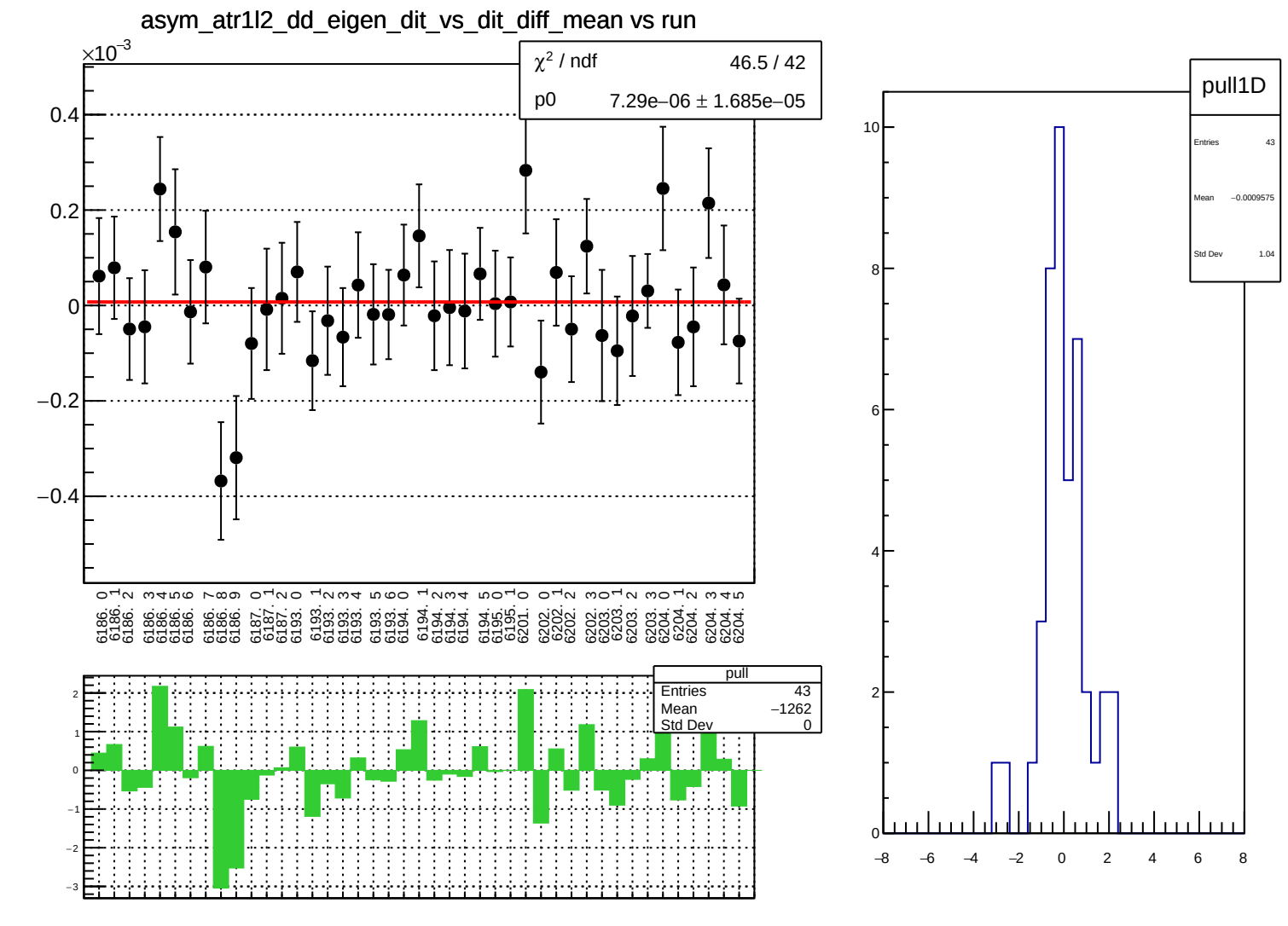
asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run

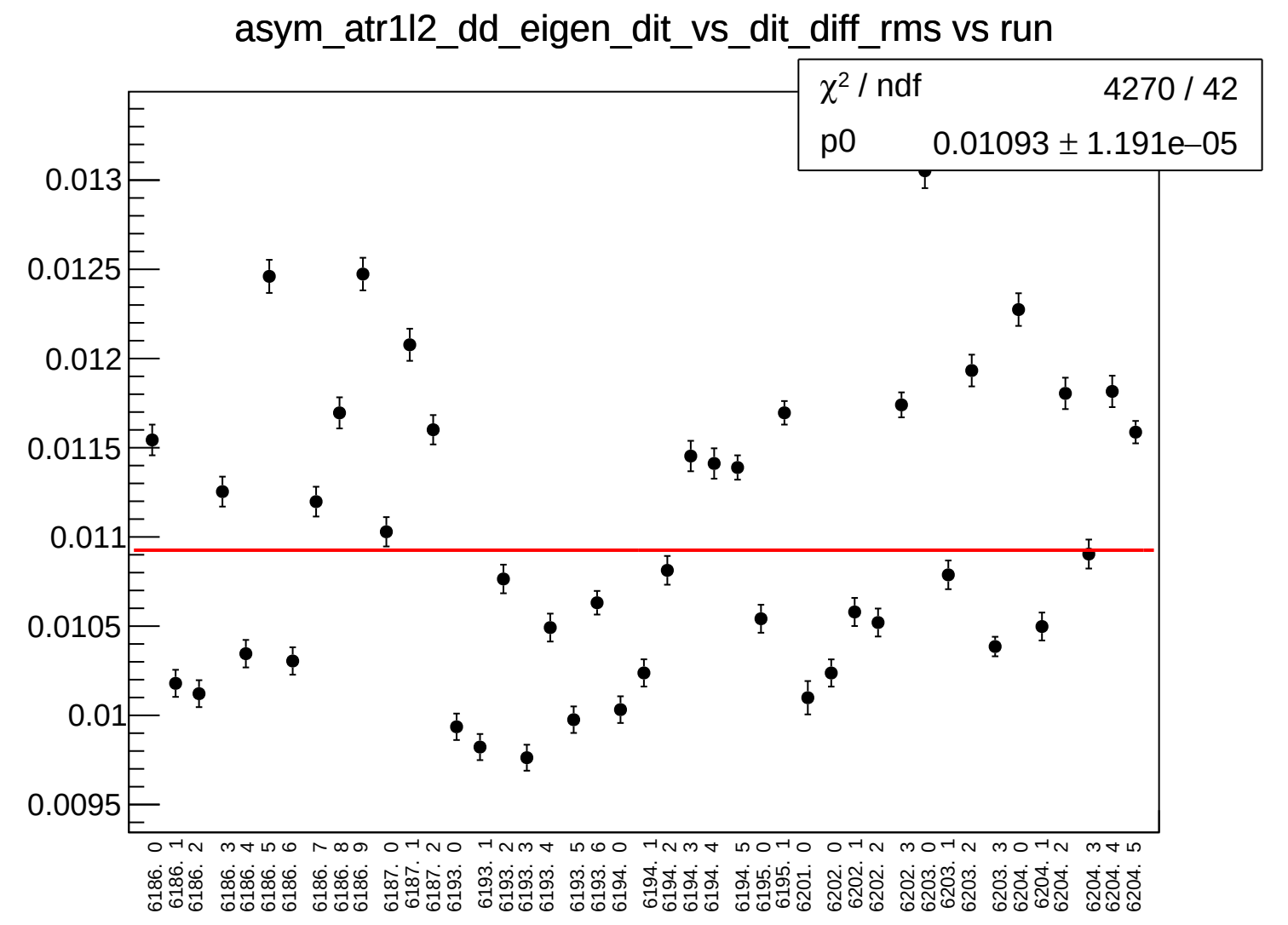




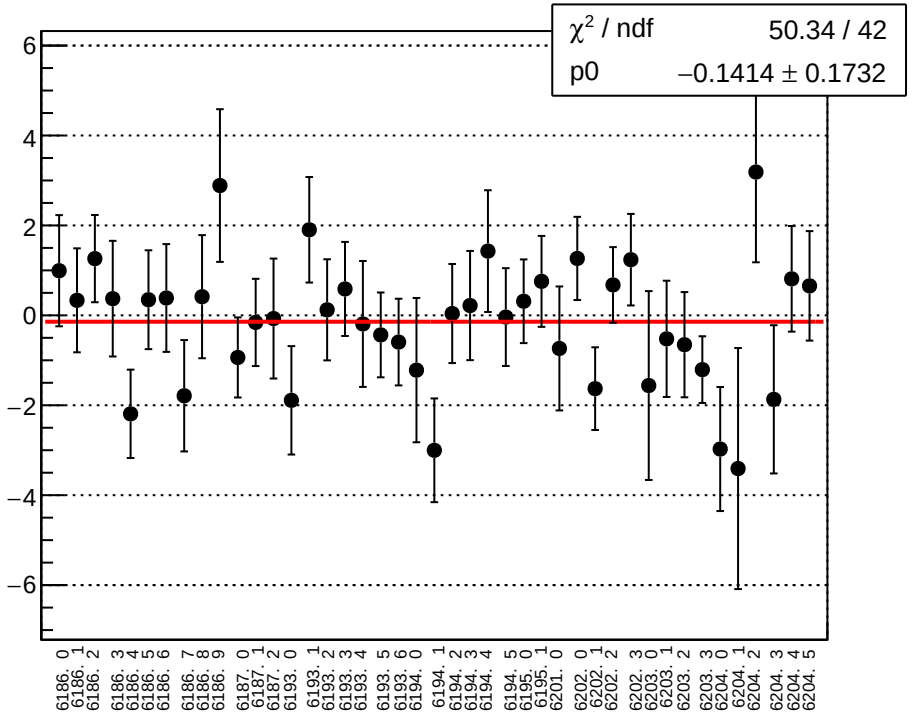


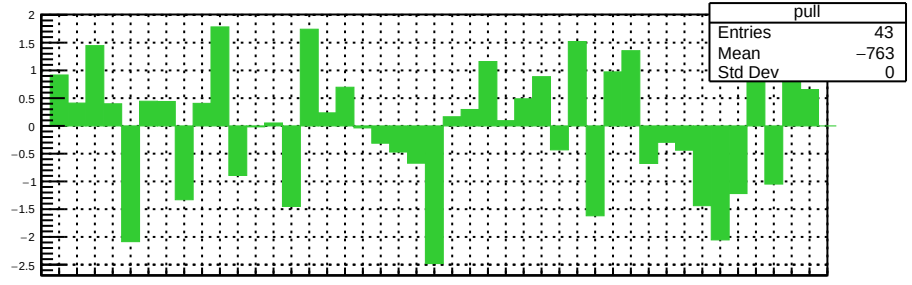

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.648e+04 / 42
p0 110.1 ± 0.1225
260
240
220
200
180
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

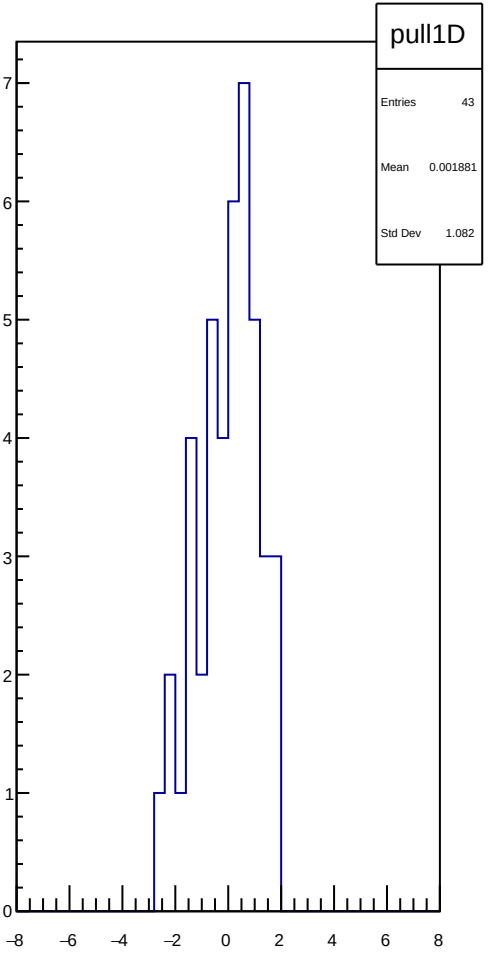

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 46.5 / 42
p0 7.29e−06 ± 1.685e−05
0.4
0.2
0
−0.2
−0.4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1262
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.0009575
Std Dev 1.04
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

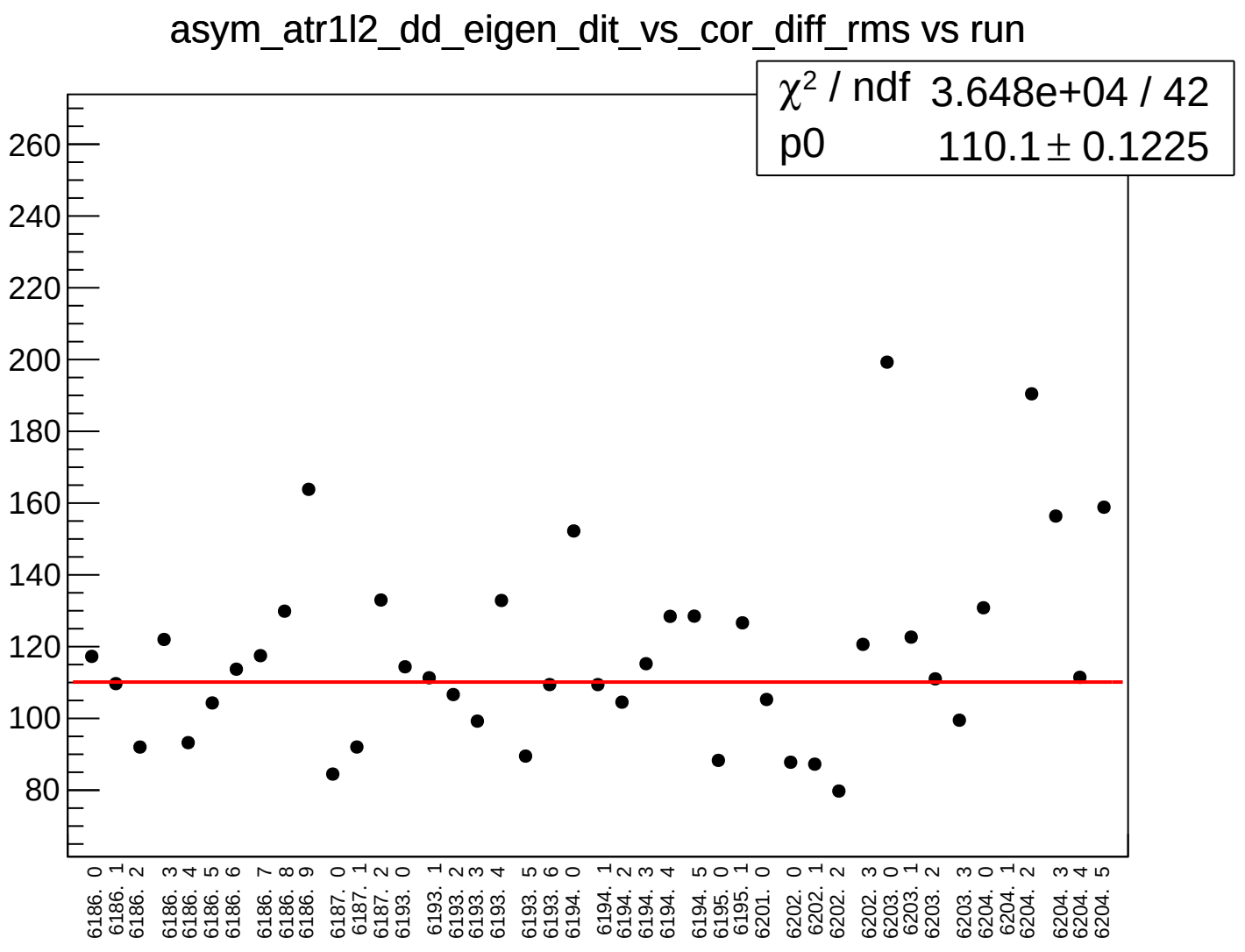

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4270 / 42
p0 0.01093 ± 1.191e−05
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

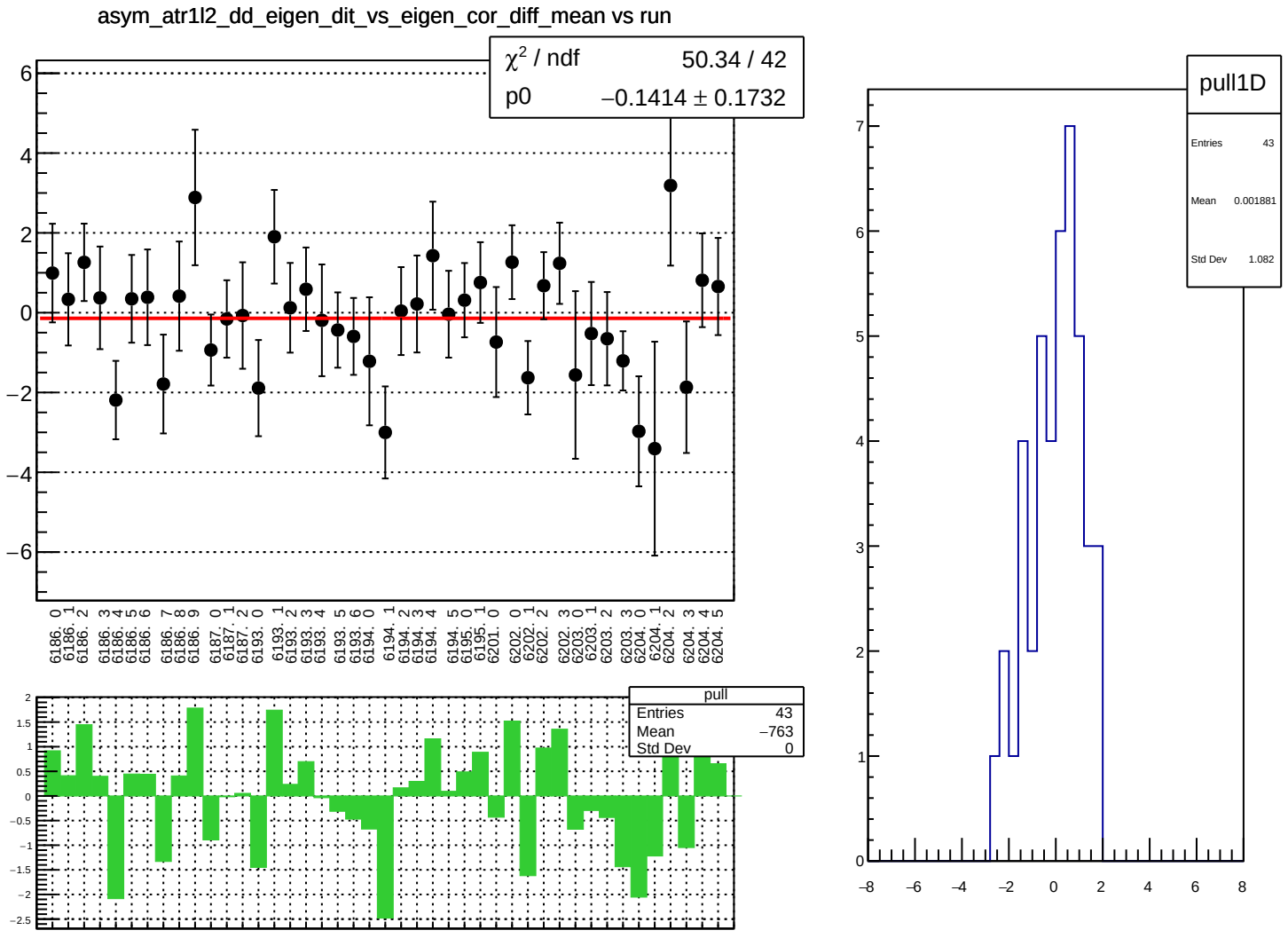
asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run

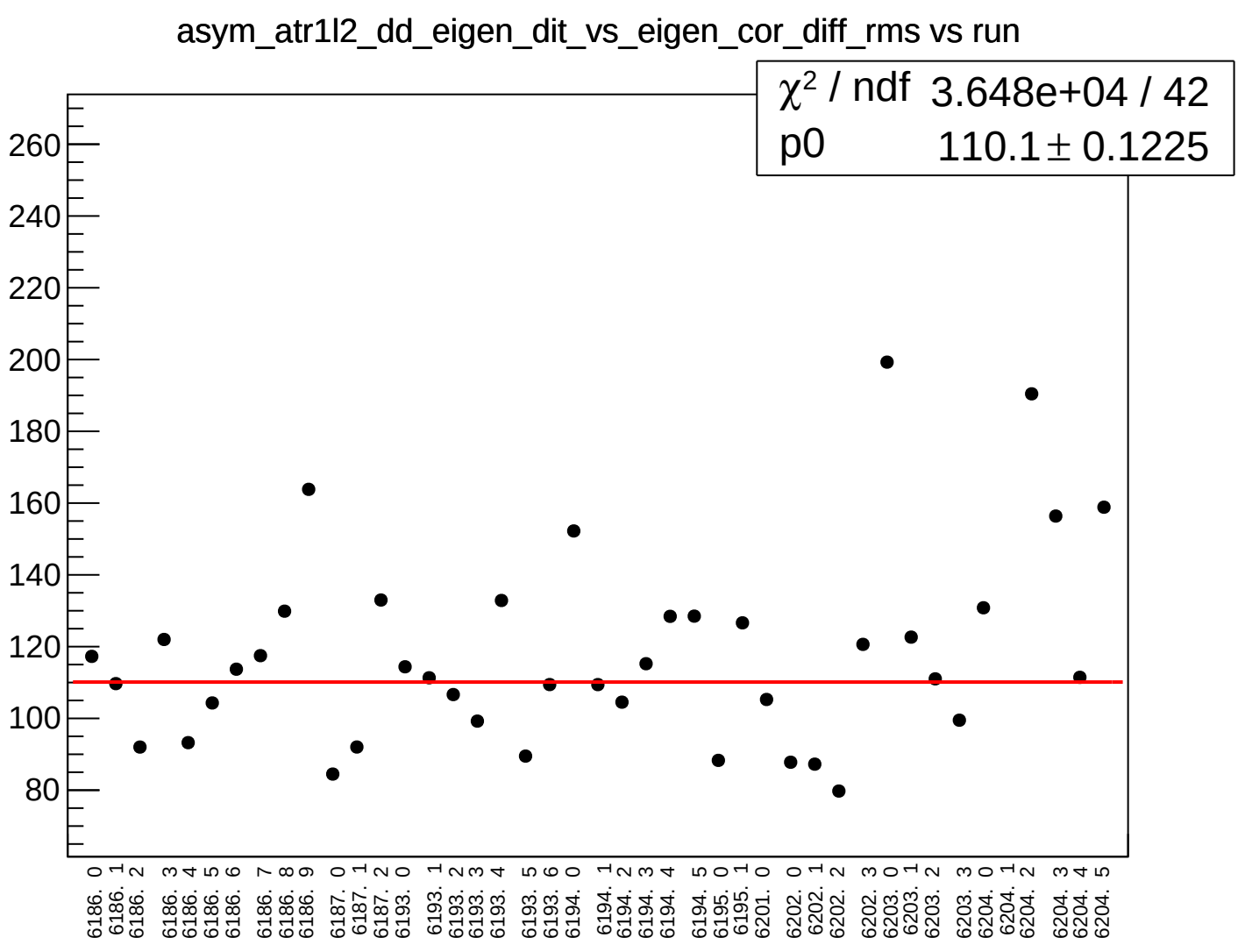


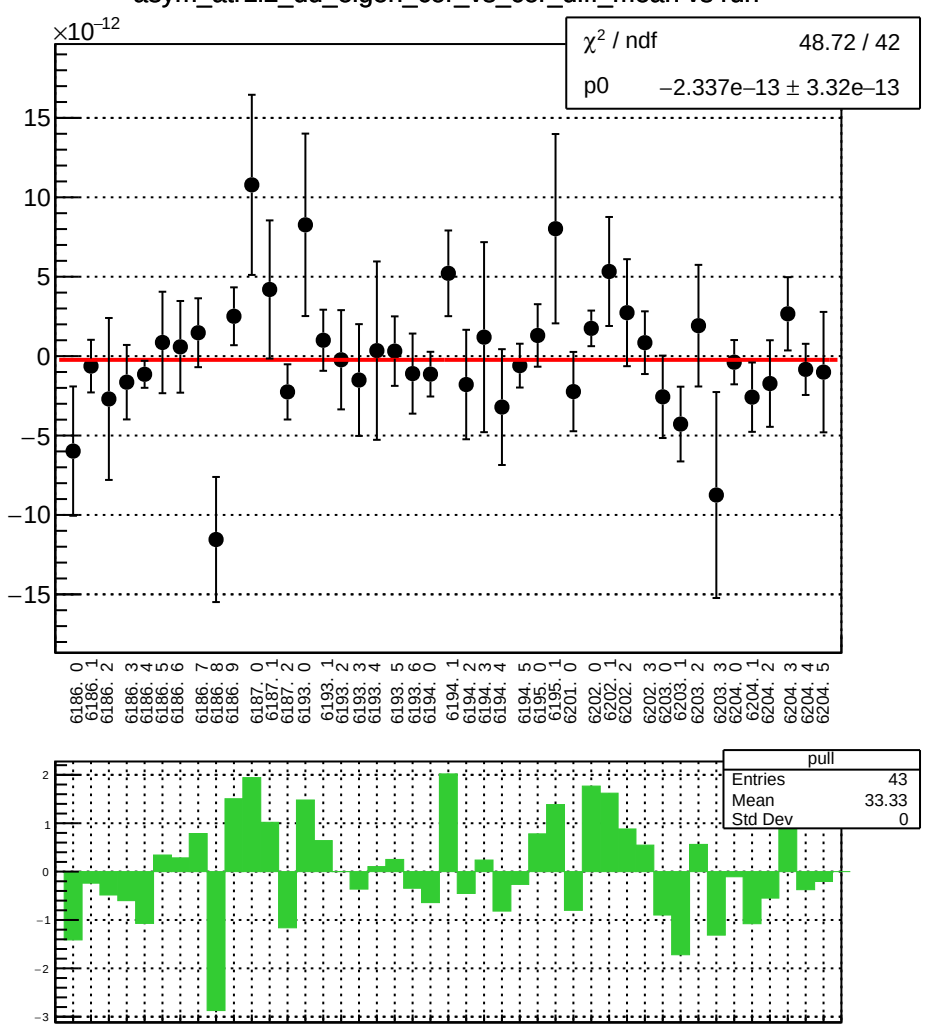


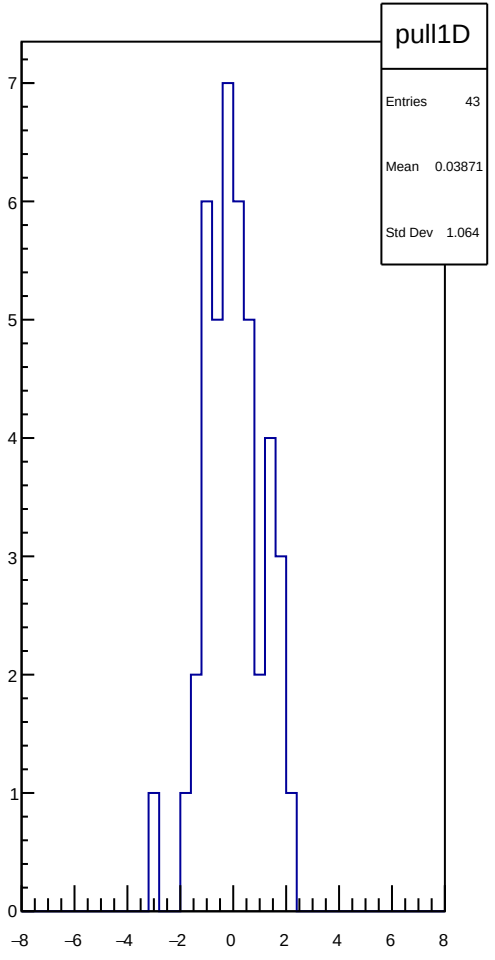


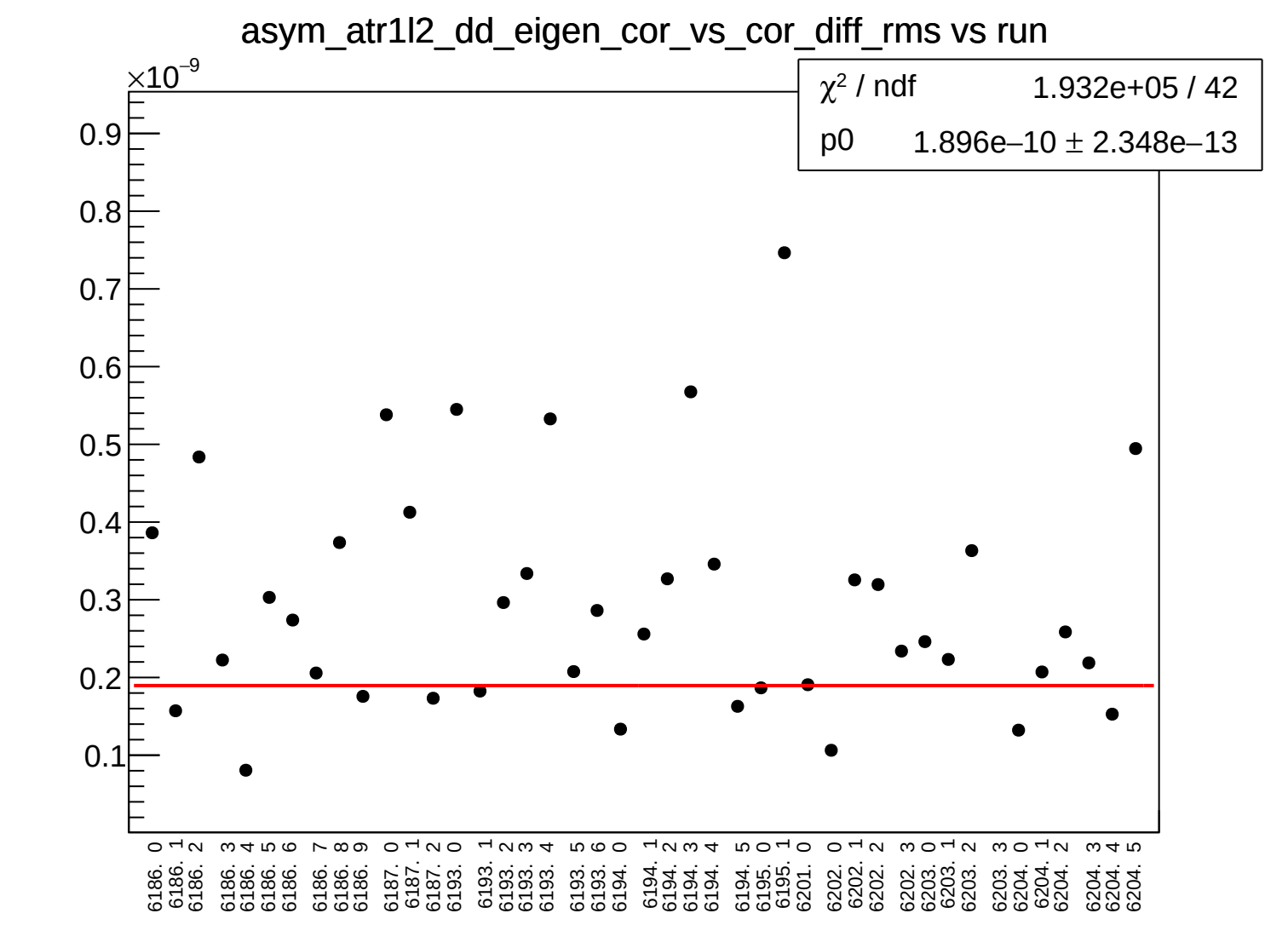

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.648e+04 / 42
p0 110.1 ± 0.1225
260
240
220
200
180
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

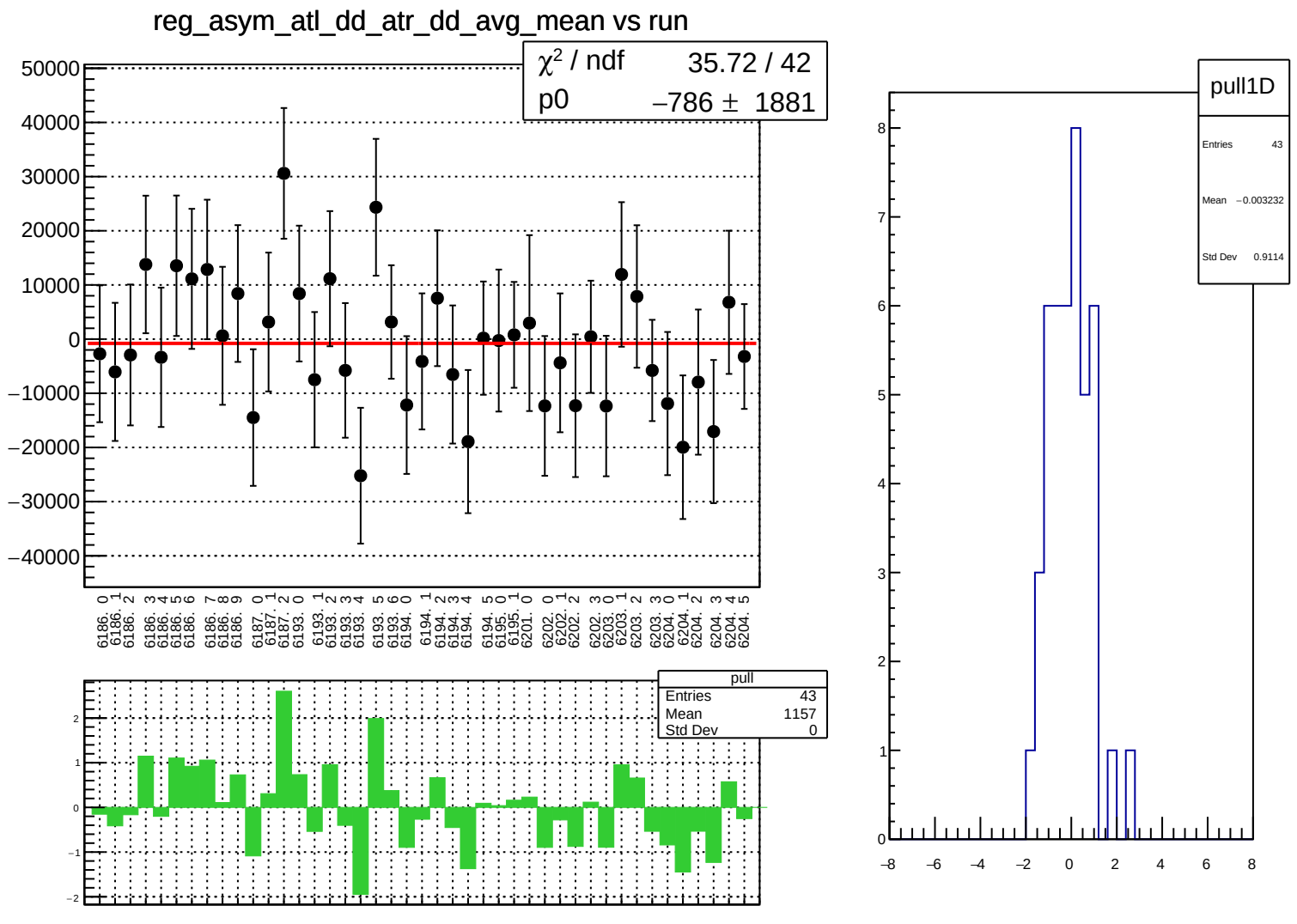

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.34 / 42
p0 −0.1414 ± 0.1732
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −763
Std Dev 0
pull1D
Entries 43
Mean 0.001881
Std Dev 1.082

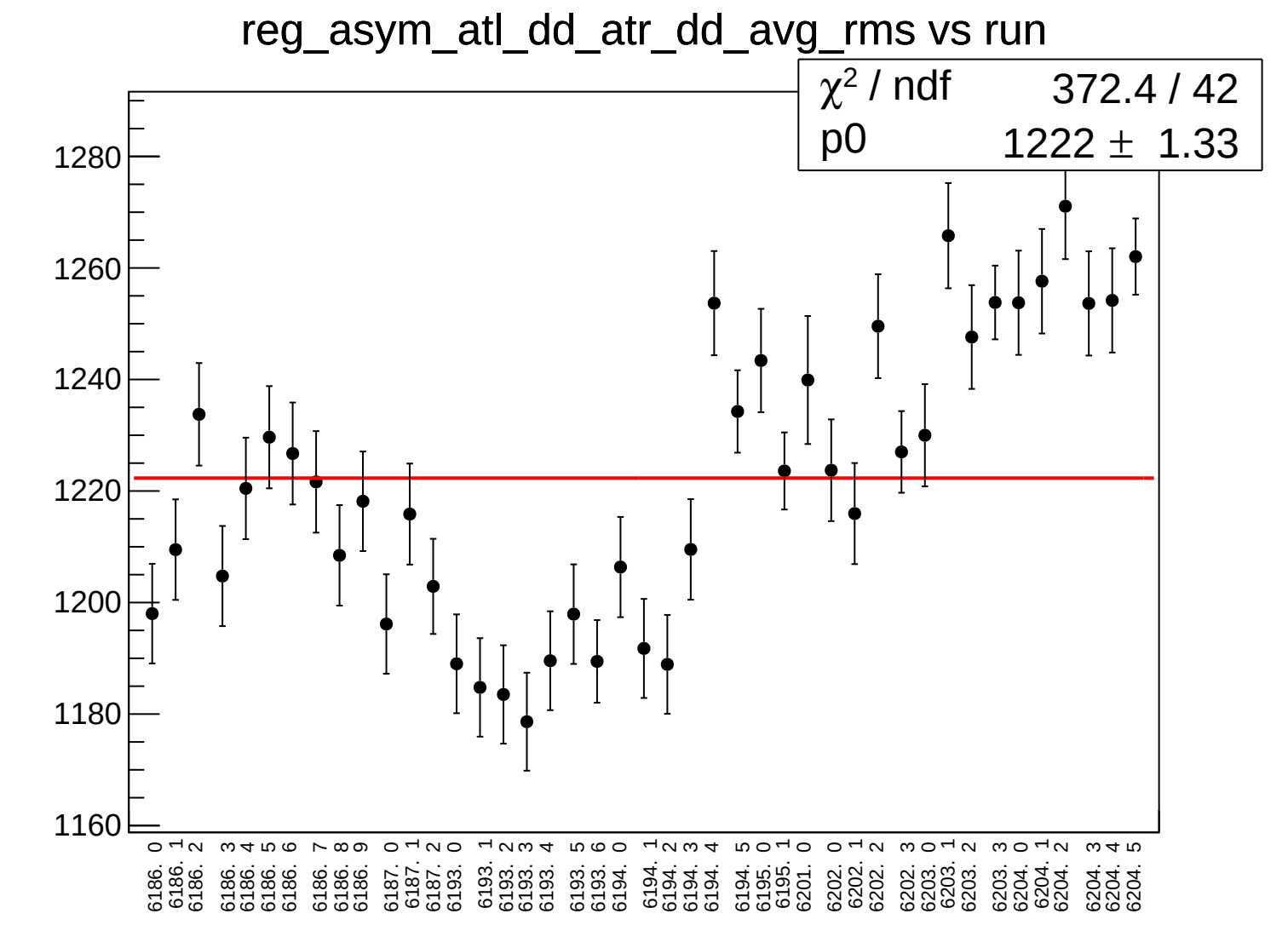

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.648e+04 / 42
p0 110.1 ± 0.1225
260
240
220
200
180
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

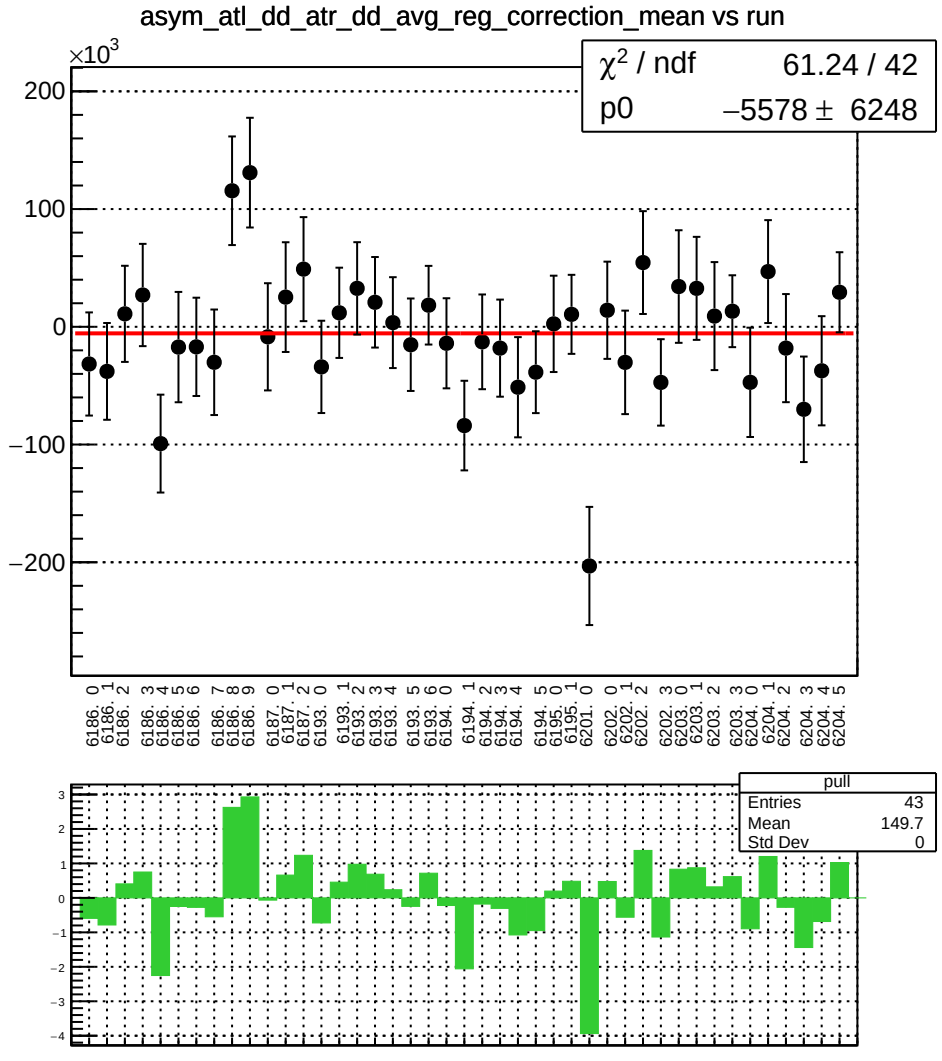

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 48.72 / 42
p0 −2.337e−13 ± 3.32e−13
pull
Entries 43
Mean 33.33
Std Dev 0

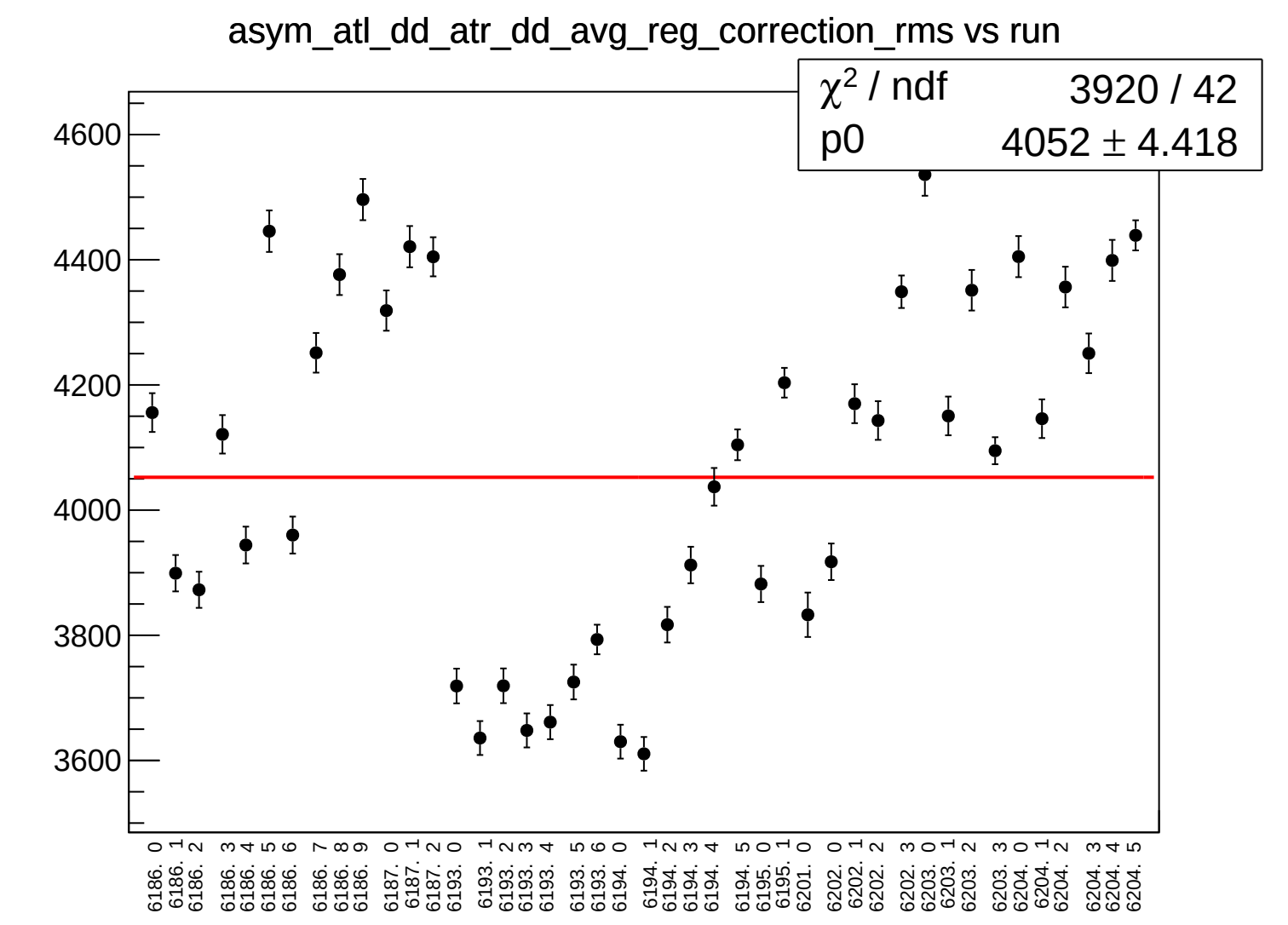

pull1D
Entries 43
Mean 0.03871
Std Dev 1.064

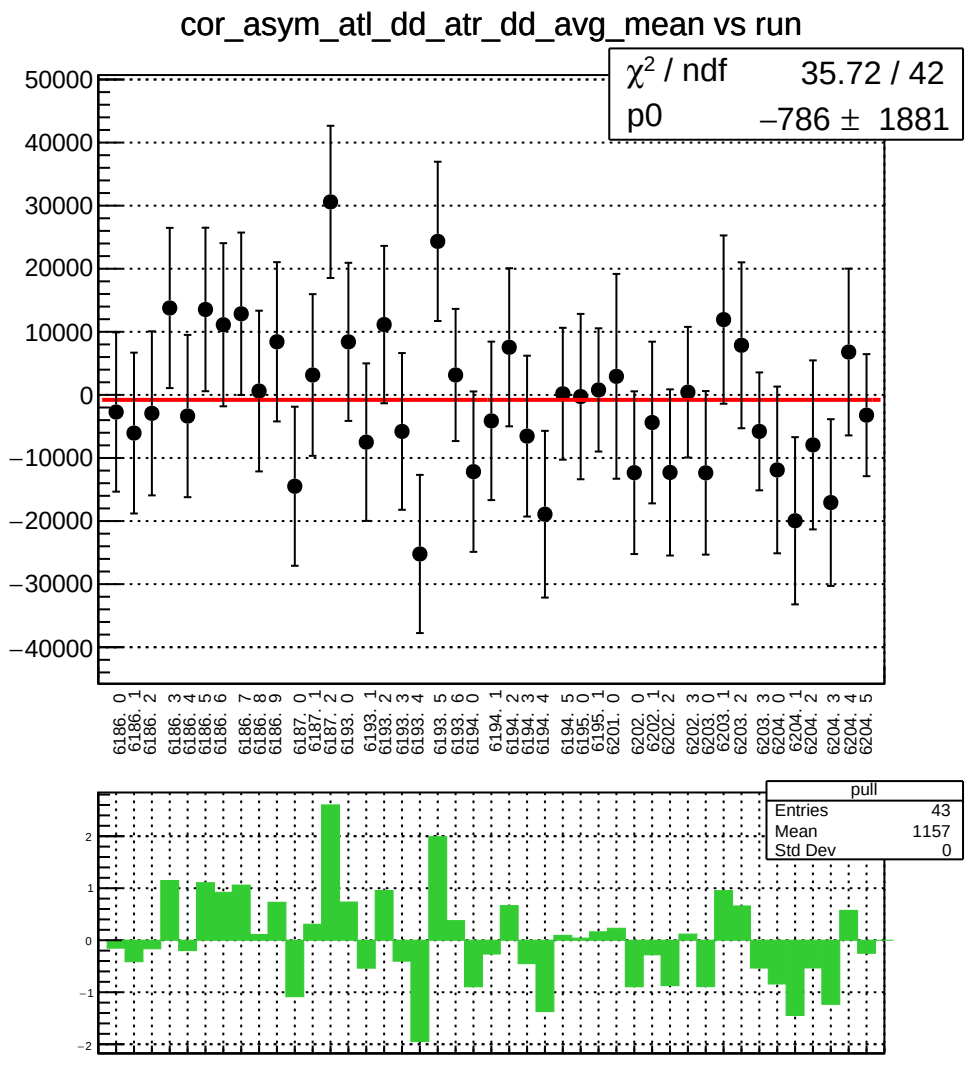

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.932e+05 / 42
p0 1.896e−10 ± 2.348e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

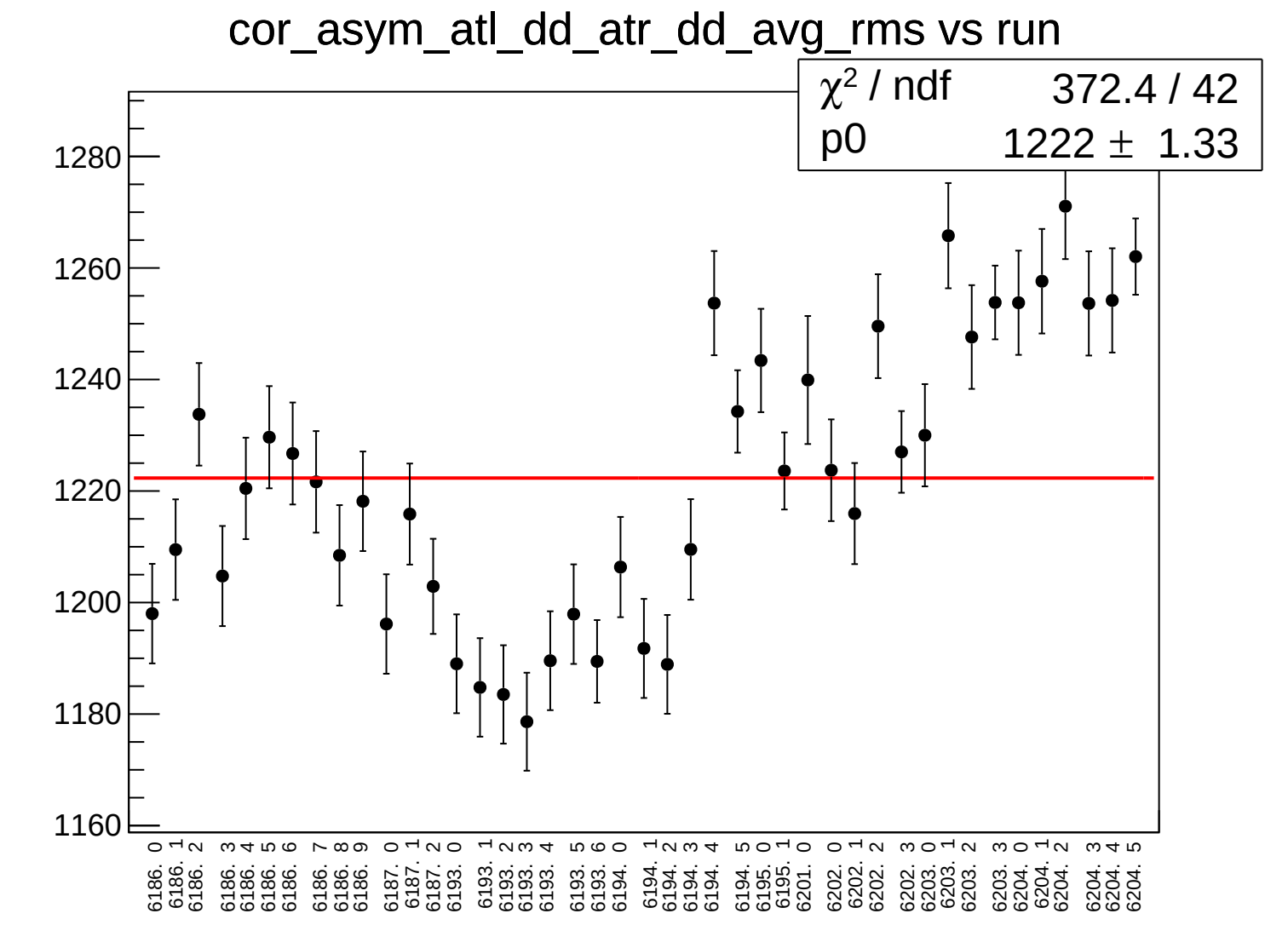

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 35.72 / 42
p0 −786 ± 1881
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1157
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.003232
Std Dev 0.9114
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_rms vs run
χ² / ndf 372.4 / 42
p0 1222 ± 1.33
1280
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 61.24 / 42
p0 −5578 ± 6248
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 149.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.008725
Std Dev 1.193
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 3920 / 42
p0 4052 ± 4.418
4600
4400
4200
4000
3800
3600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 35.72 / 42
p0 −786 ± 1881
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1157
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.003235
Std Dev 0.9114
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 372.4 / 42
p0 1222 ± 1.33
1280
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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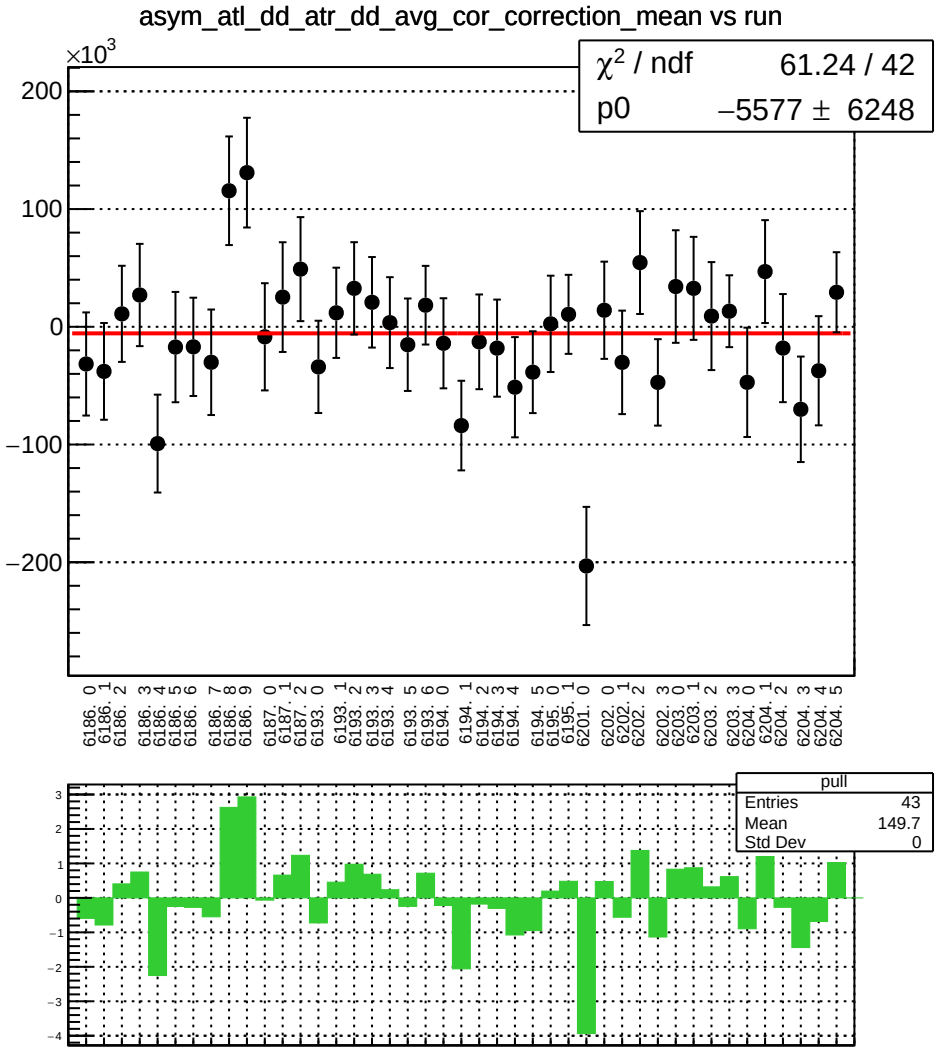
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 61.24 / 42
p0 −5577 ± 6248
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
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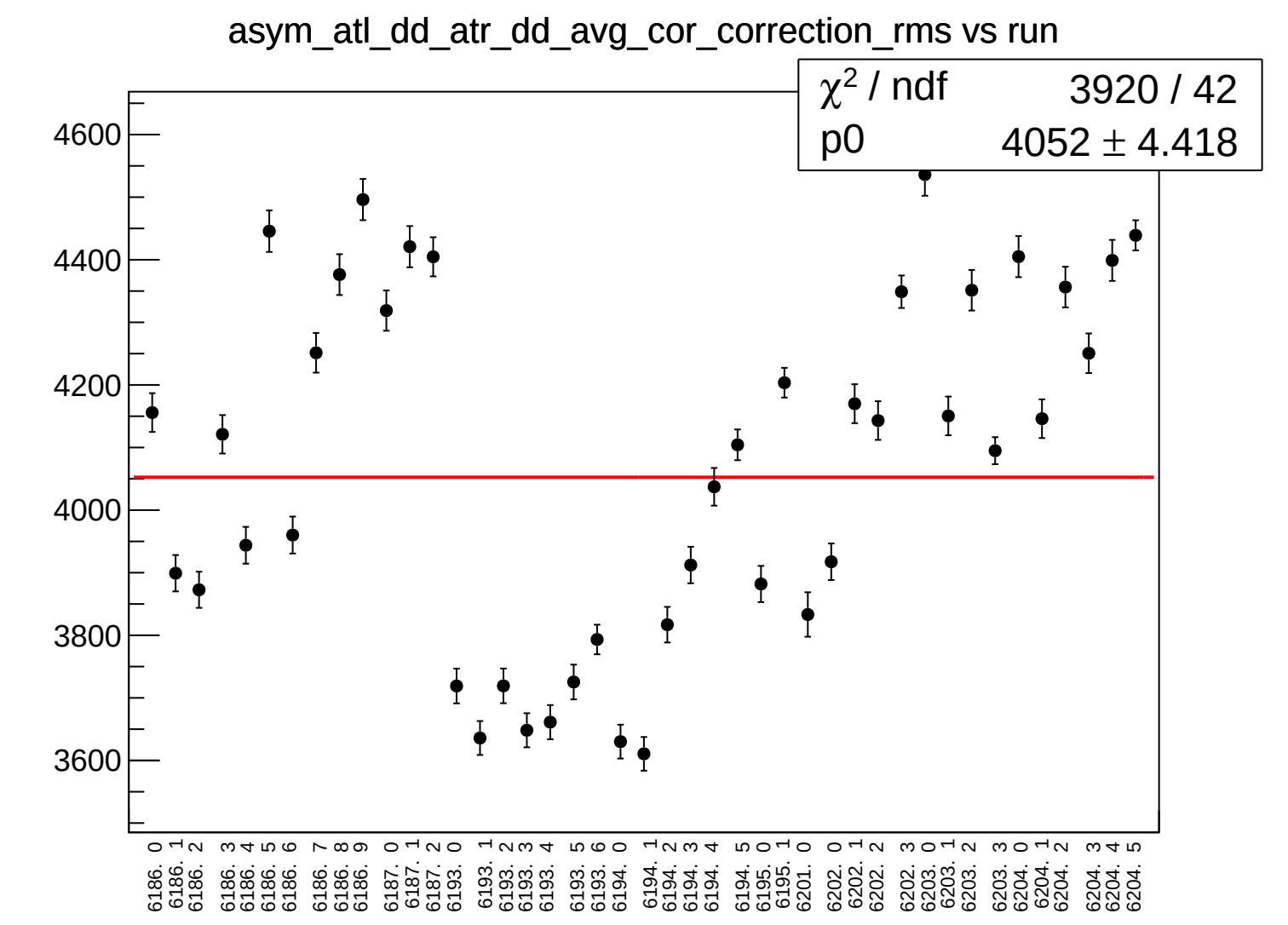
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 149.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.008726
Std Dev 1.193
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 3920 / 42
p0 4052 ± 4.418
4600
4400
4200
4000
3800
3600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
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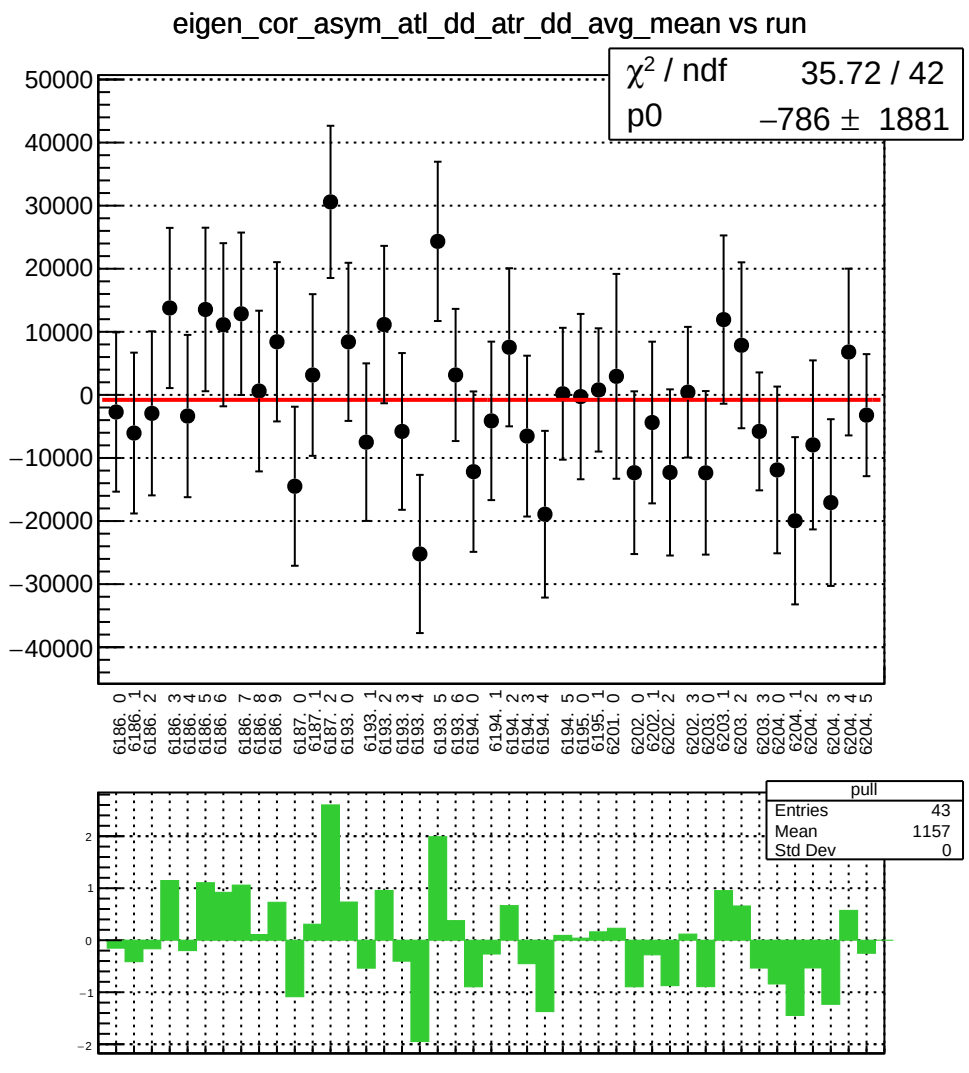
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 35.72 / 42
p0 −786 ± 1881
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
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6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
6194. 4
6194. 5
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6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
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6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1157
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.003235
Std Dev 0.9114
8
7
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5
4
3
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1
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−4
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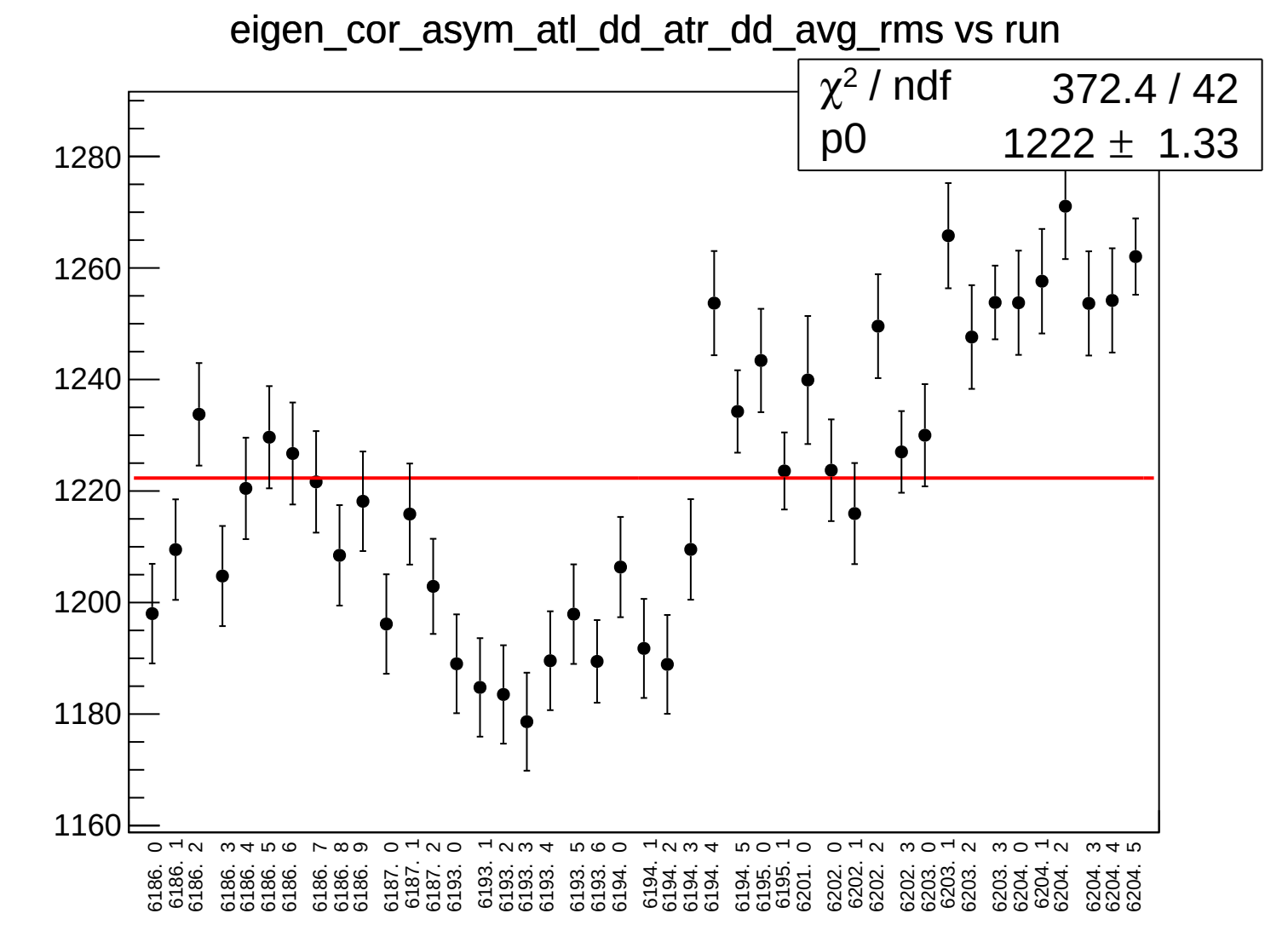
4
6
8


eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 372.4 / 42
p0 1222 ± 1.33
1280
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
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6194. 2
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6194. 5
6195. 0
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6202. 1
6202. 2
6202. 3
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6203. 3
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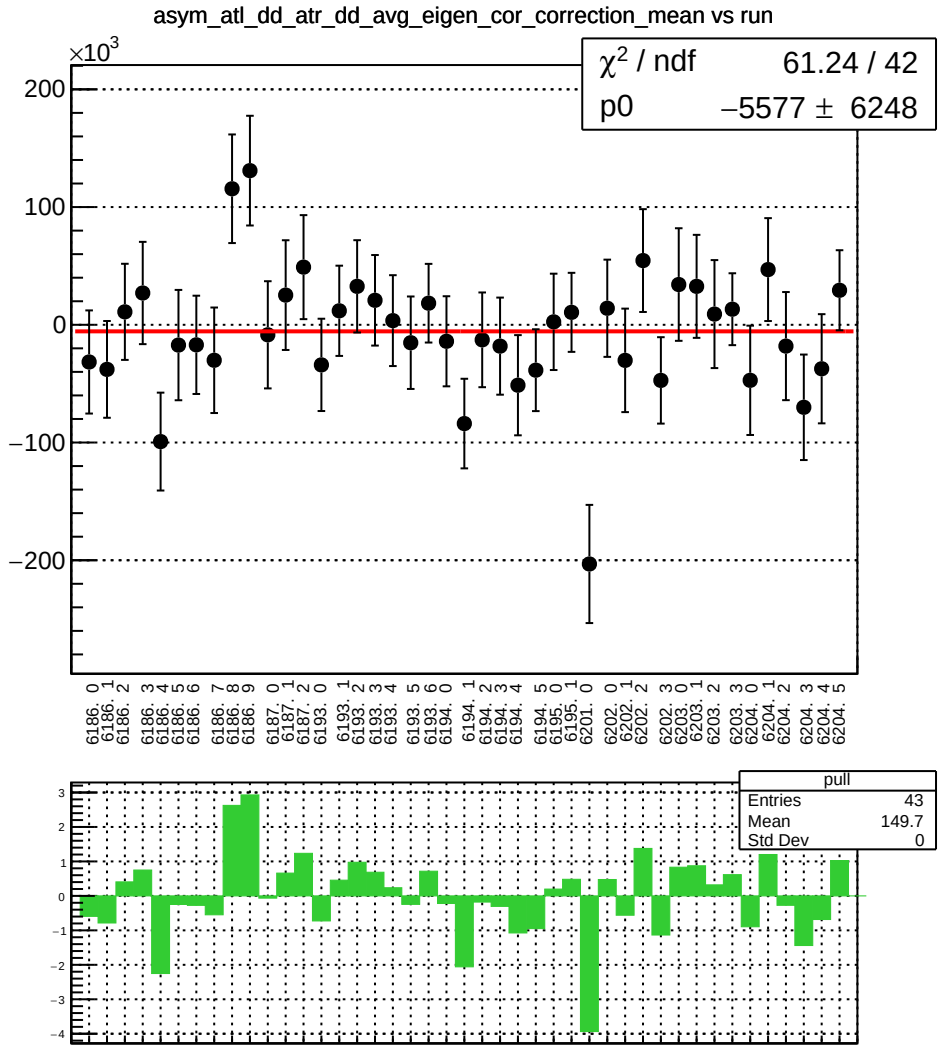
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 61.24 / 42
p0 −5577 ± 6248
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
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6186. 9
6187. 0
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6187. 2
6193. 0
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6193. 2
6193. 3
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6193. 5
6193. 6
6194. 0
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6194. 2
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6194. 4
6194. 5
6195. 0
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6202. 0
6202. 1
6202. 2
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6204. 2
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pull
Entries 43
Mean 149.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.008726
Std Dev 1.193
9
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−4
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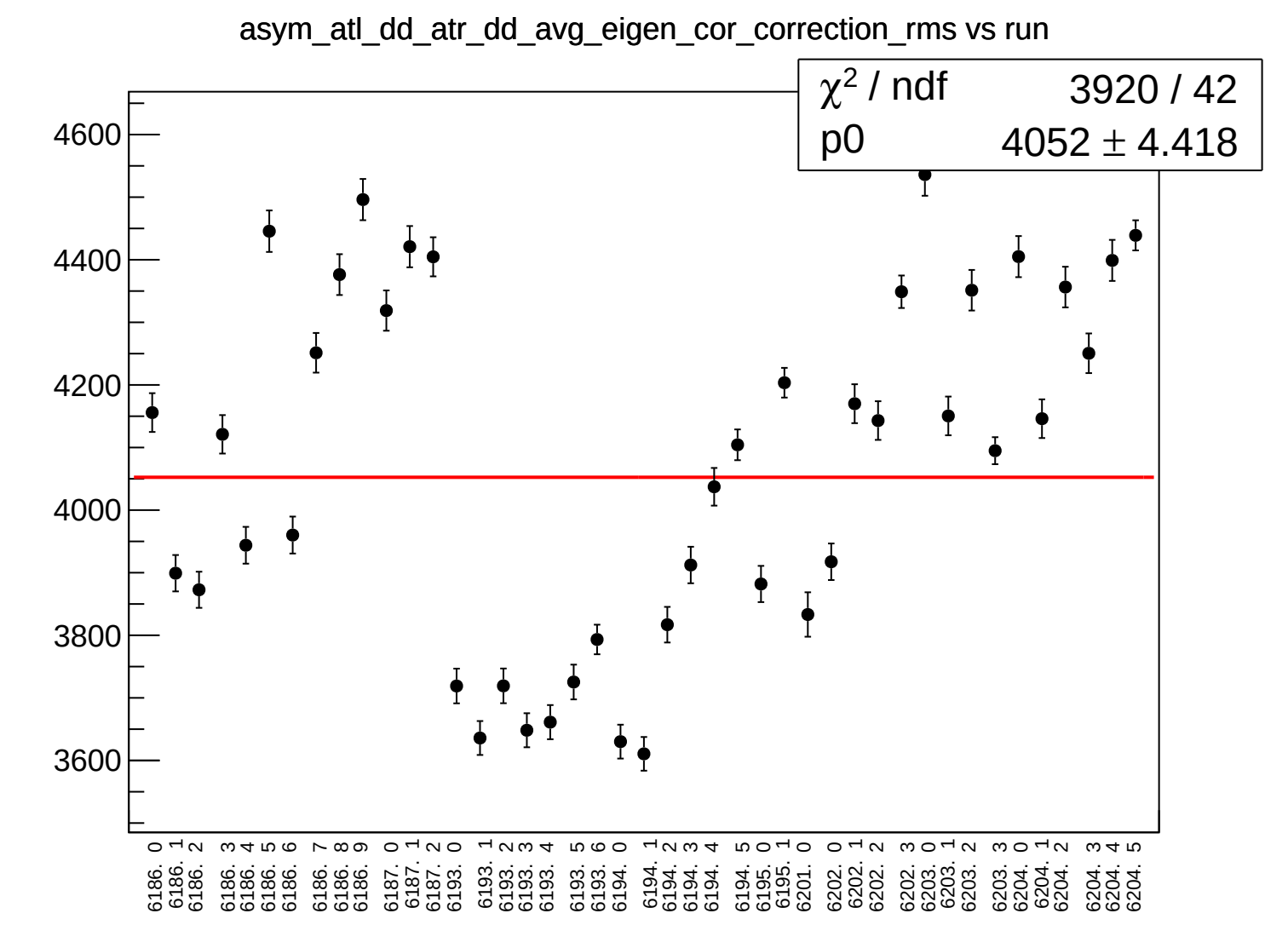
8


asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3920 / 42
p0 4052 ± 4.418
4600
4400
4200
4000
3800
3600
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 9
6187. 0
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6187. 2
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6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
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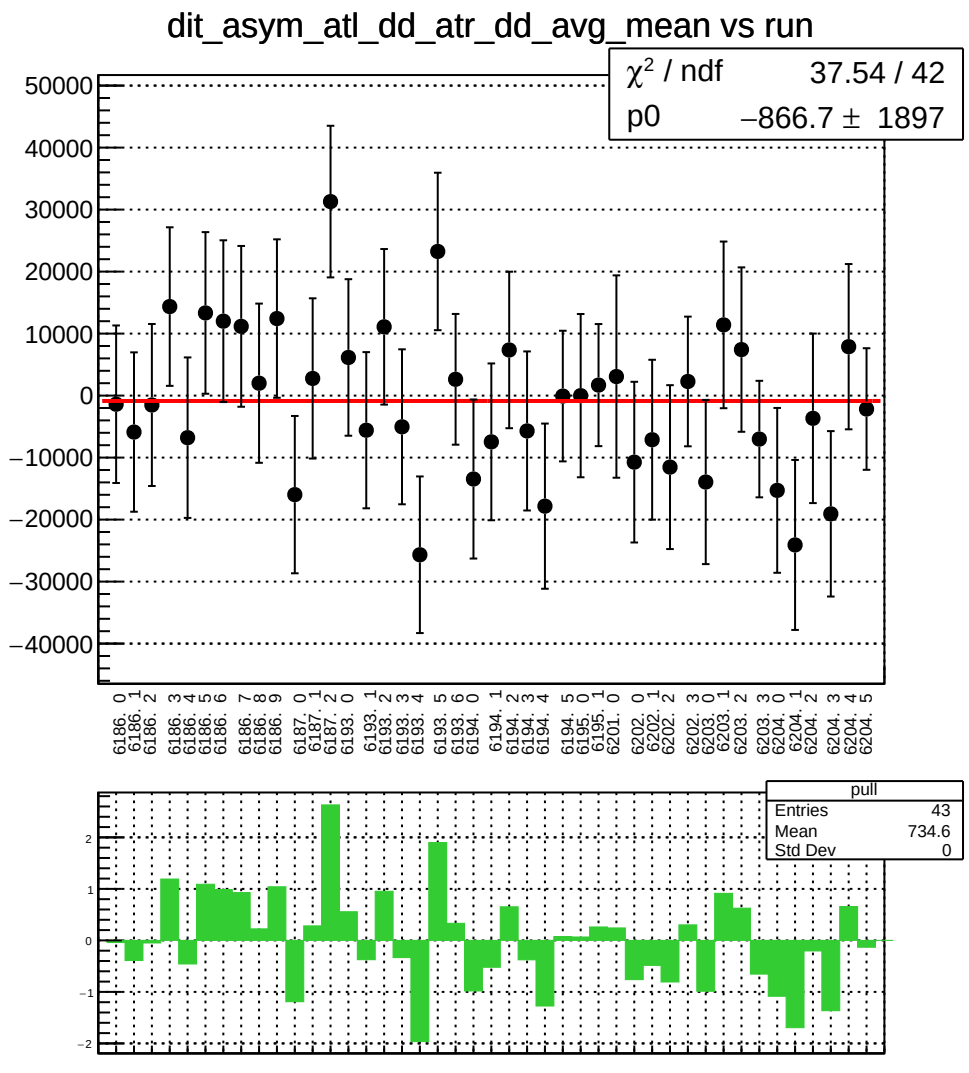
6204. 4
6204. 5


dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 37.54 / 42
p0 −866.7 ± 1897
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
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6194. 0
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6195. 0
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6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
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6204. 5
pull
Entries 43
Mean 734.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.00532
Std Dev 0.9343
8
7
6
5
4
3
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1
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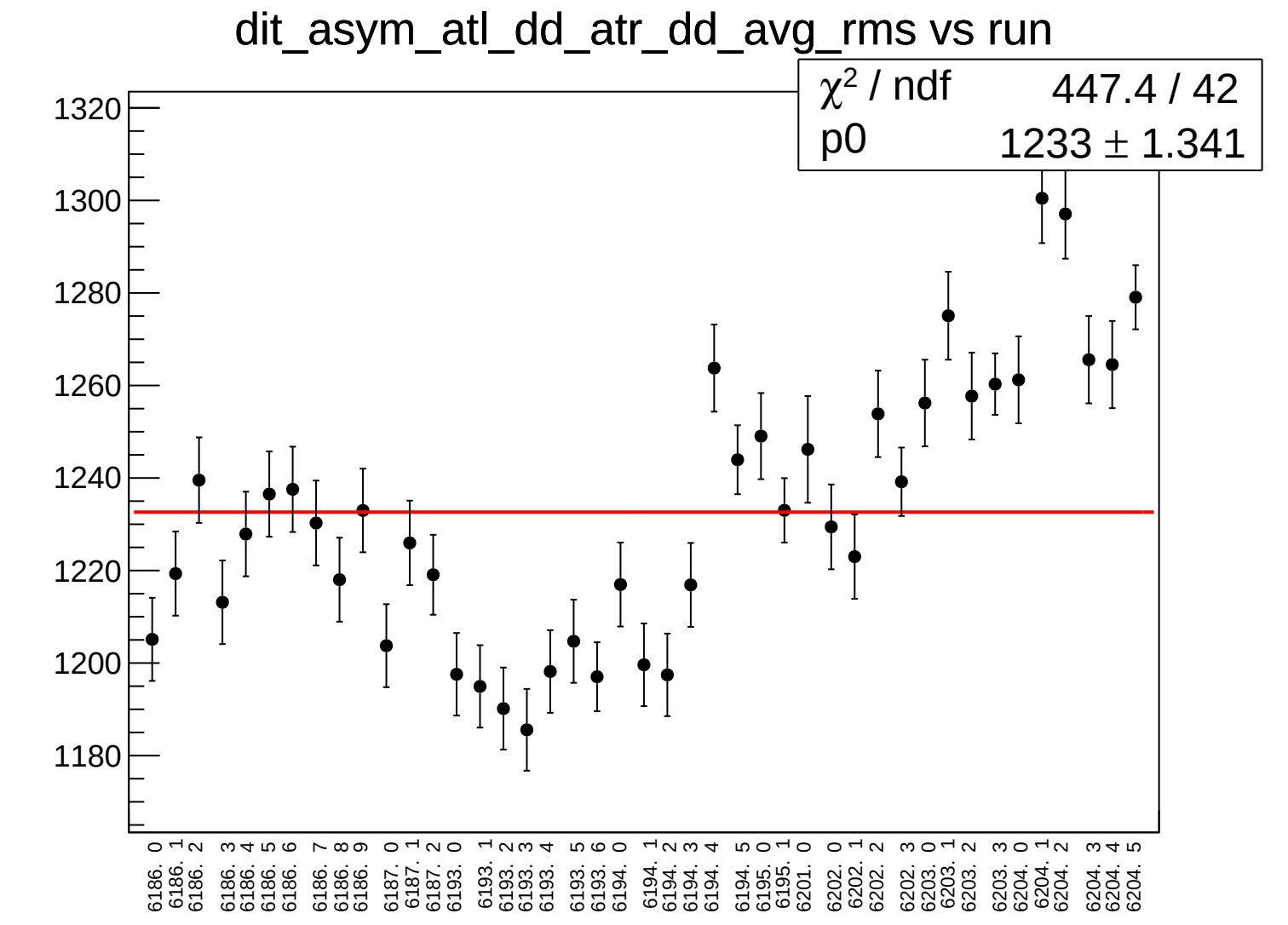
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 447.4 / 42
p0 1233 ± 1.341
1320
1300
1280
1260
1240
1220
1200
1180
6186. 0
6186. 1
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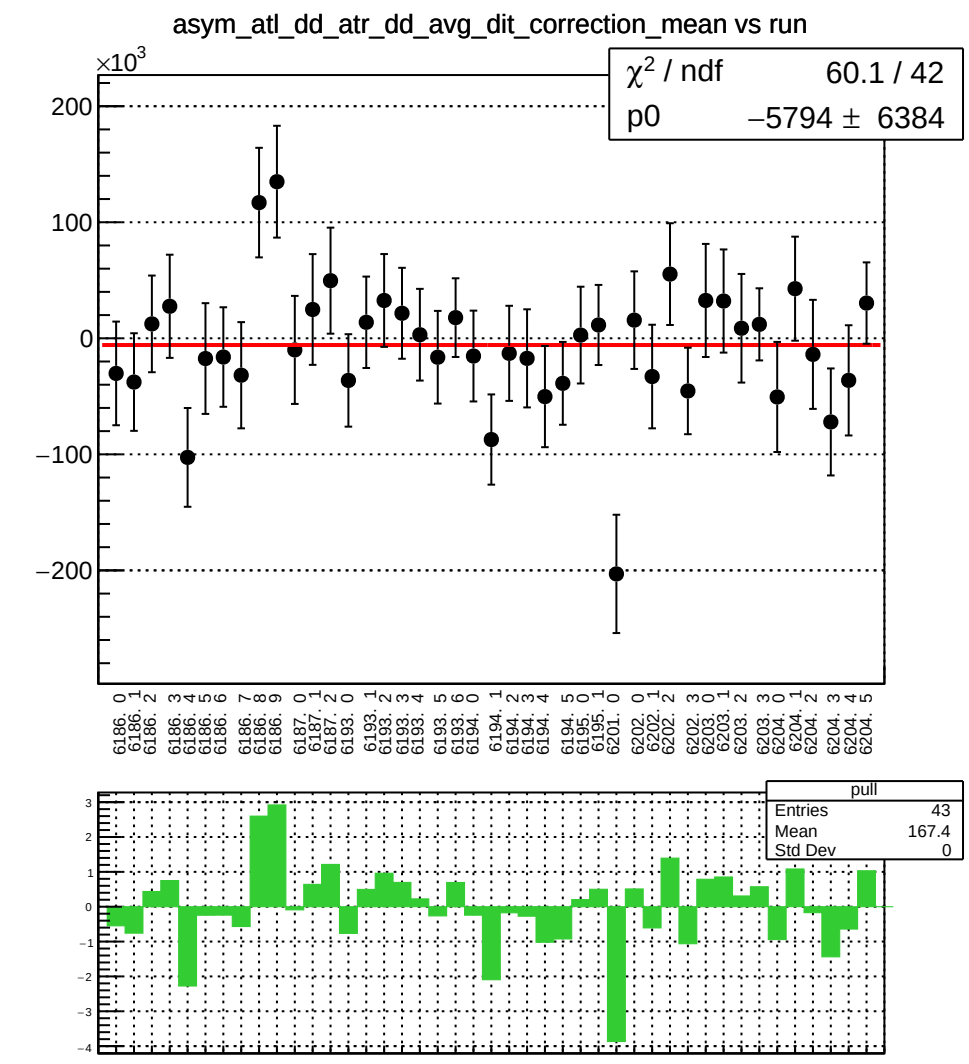
6204. 5


asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 60.1 / 42
p0 −5794 ± 6384
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
6193. 0
6193. 1
6193. 2
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6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 167.4
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.007729
Std Dev 1.182
10
8
6
4
2
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−4
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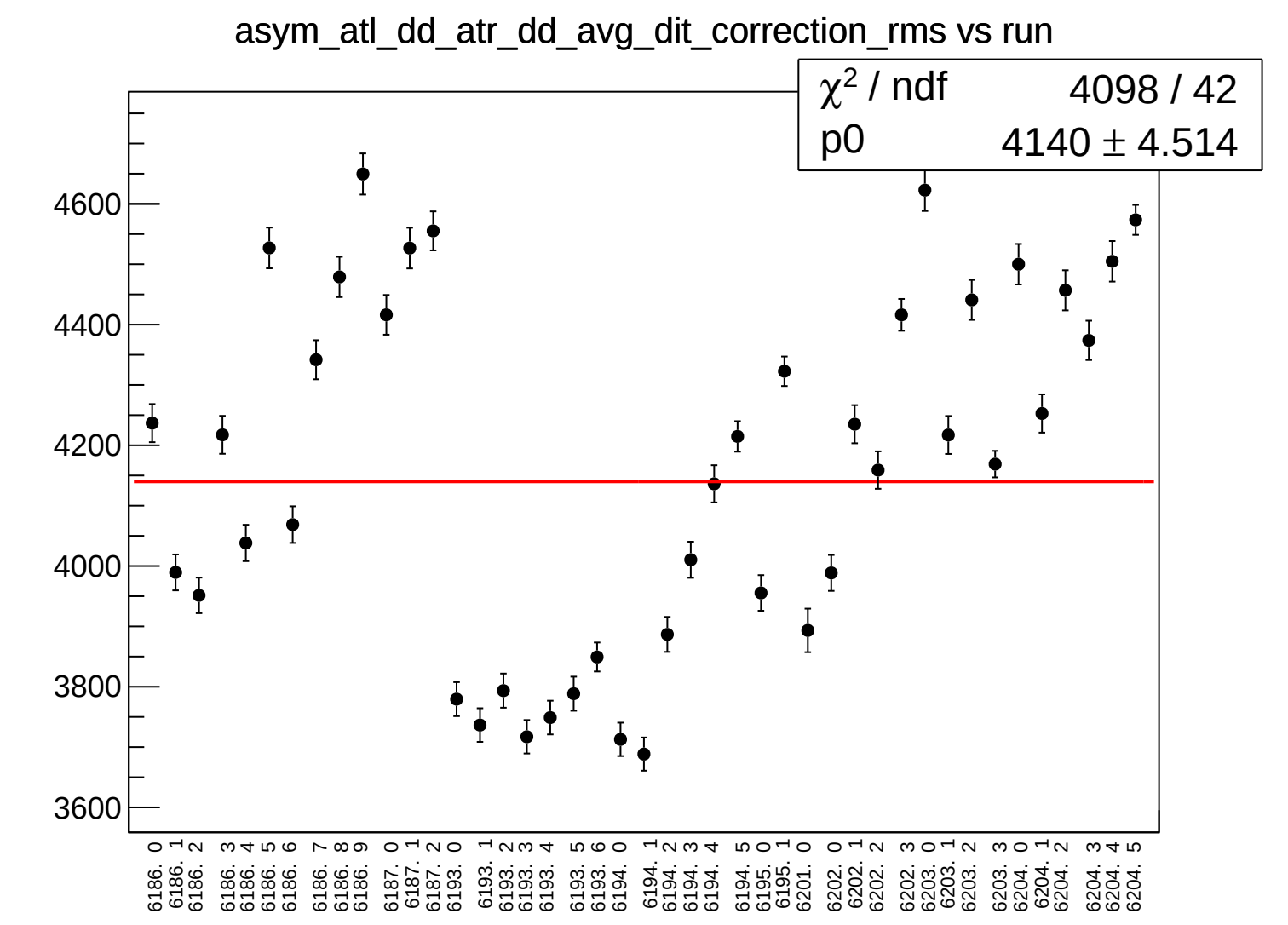
2
4
6
8


asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 4098 / 42
p0 4140 ± 4.514
4600
4400
4200
4000
3800
3600
6186. 0
6186. 1
6186. 2
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6186. 6
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6187. 2
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6194. 2
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6195. 1
6201. 0
6202. 0
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6202. 2
6202. 3
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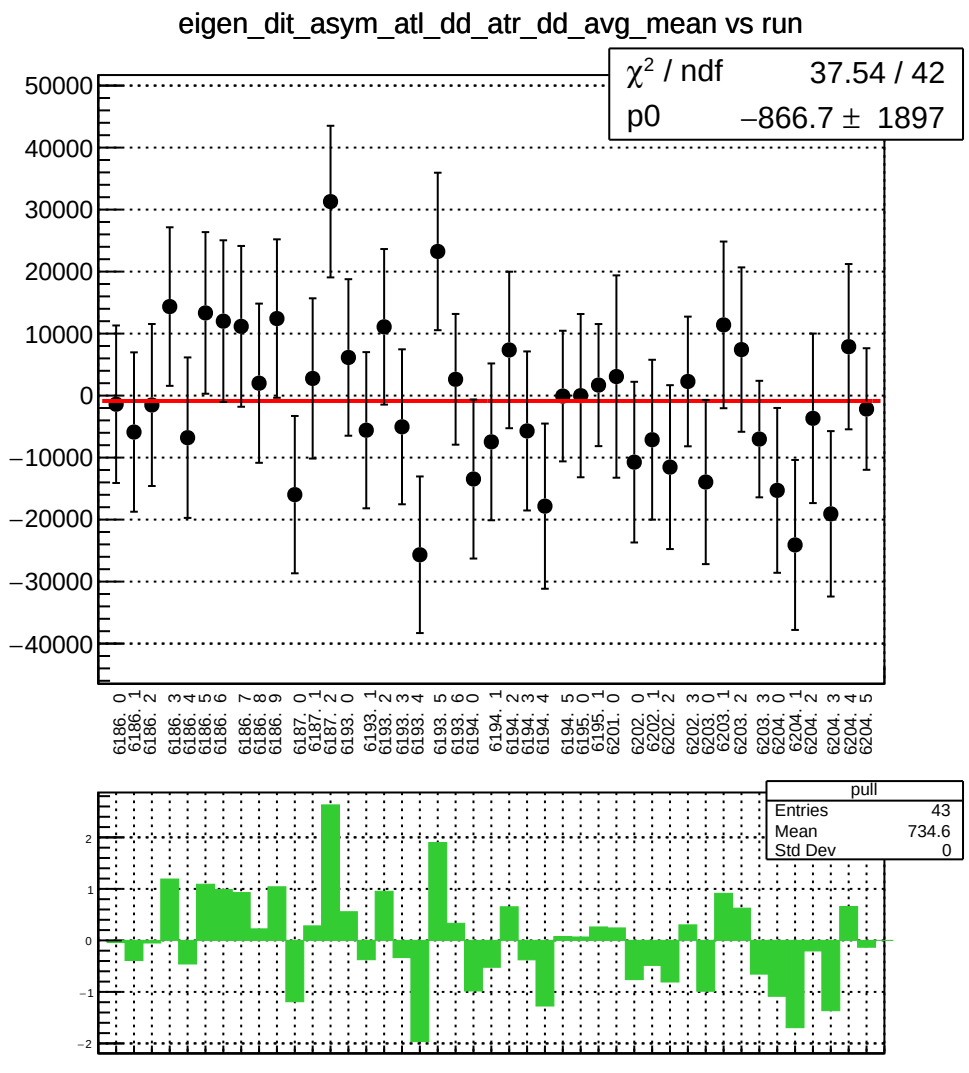
6204. 5


eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 37.54 / 42
p0 −866.7 ± 1897
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
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6187. 2
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6193. 2
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6193. 4
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6194. 1
6194. 2
6194. 3
6194. 4
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6195. 0
6195. 1
6201. 0
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6202. 2
6202. 3
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6203. 1
6203. 2
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6204. 0
6204. 1
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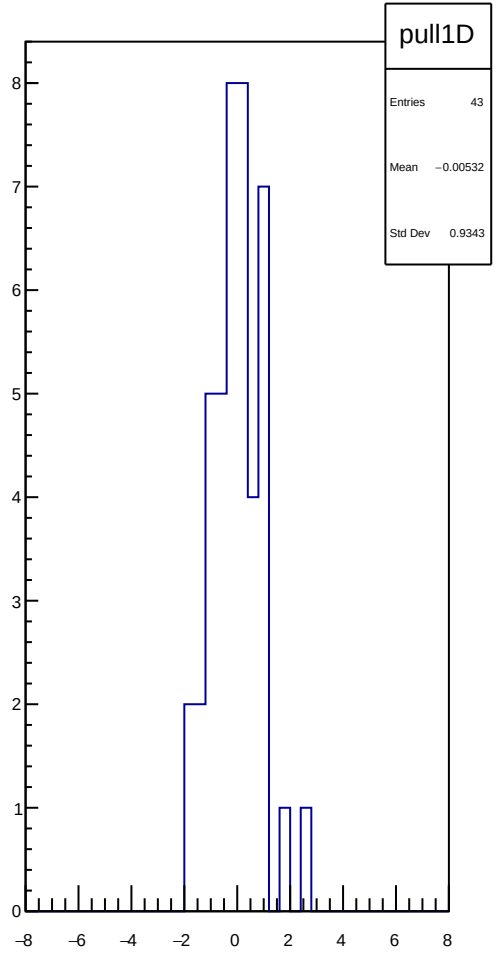
pull
Entries 43
Mean 734.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.00532
Std Dev 0.9343
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5
4
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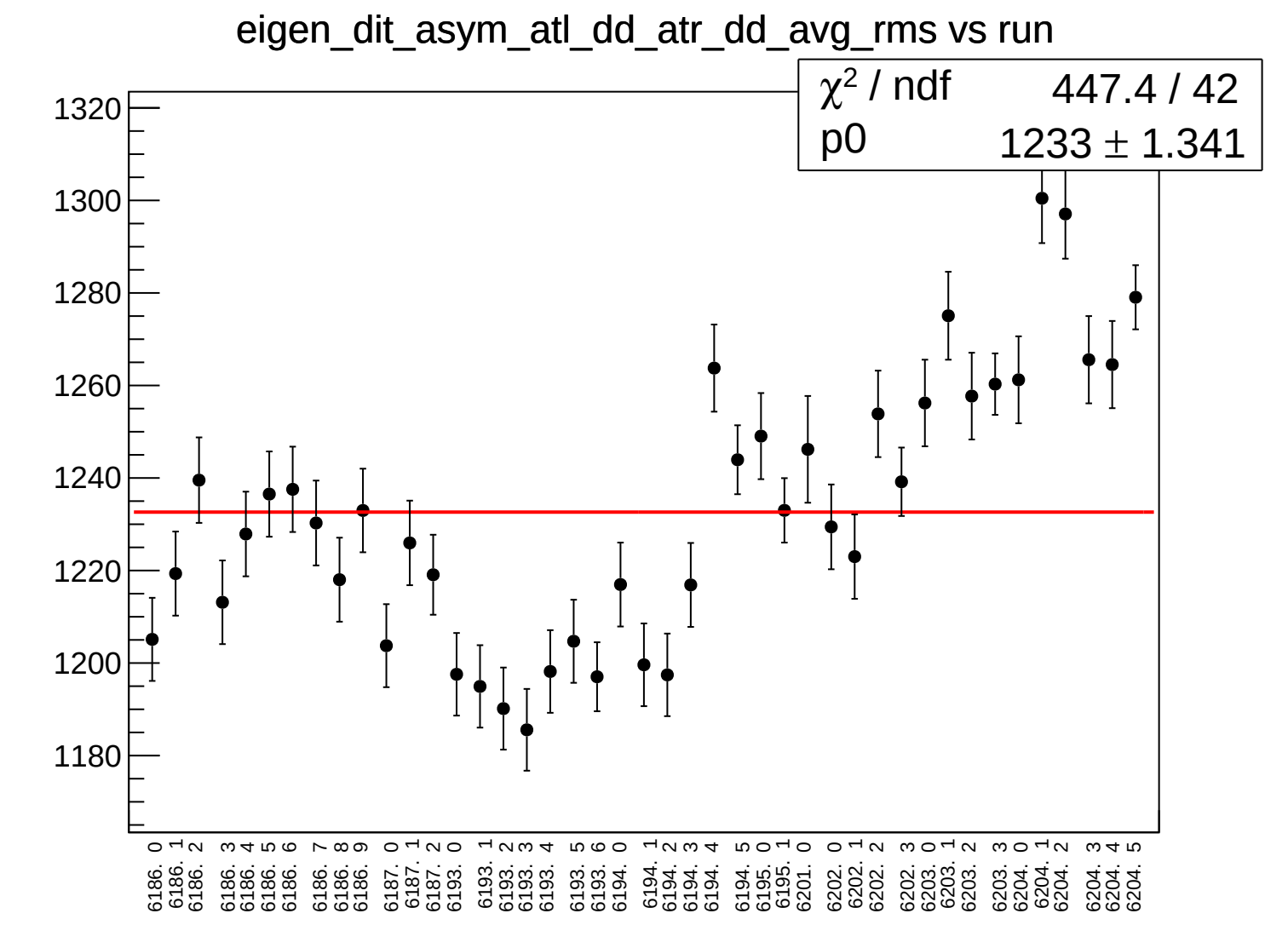
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 447.4 / 42
p0 1233 ± 1.341
1320
1300
1280
1260
1240
1220
1200
1180
6186. 0
6186. 1
6186. 2
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6186. 4
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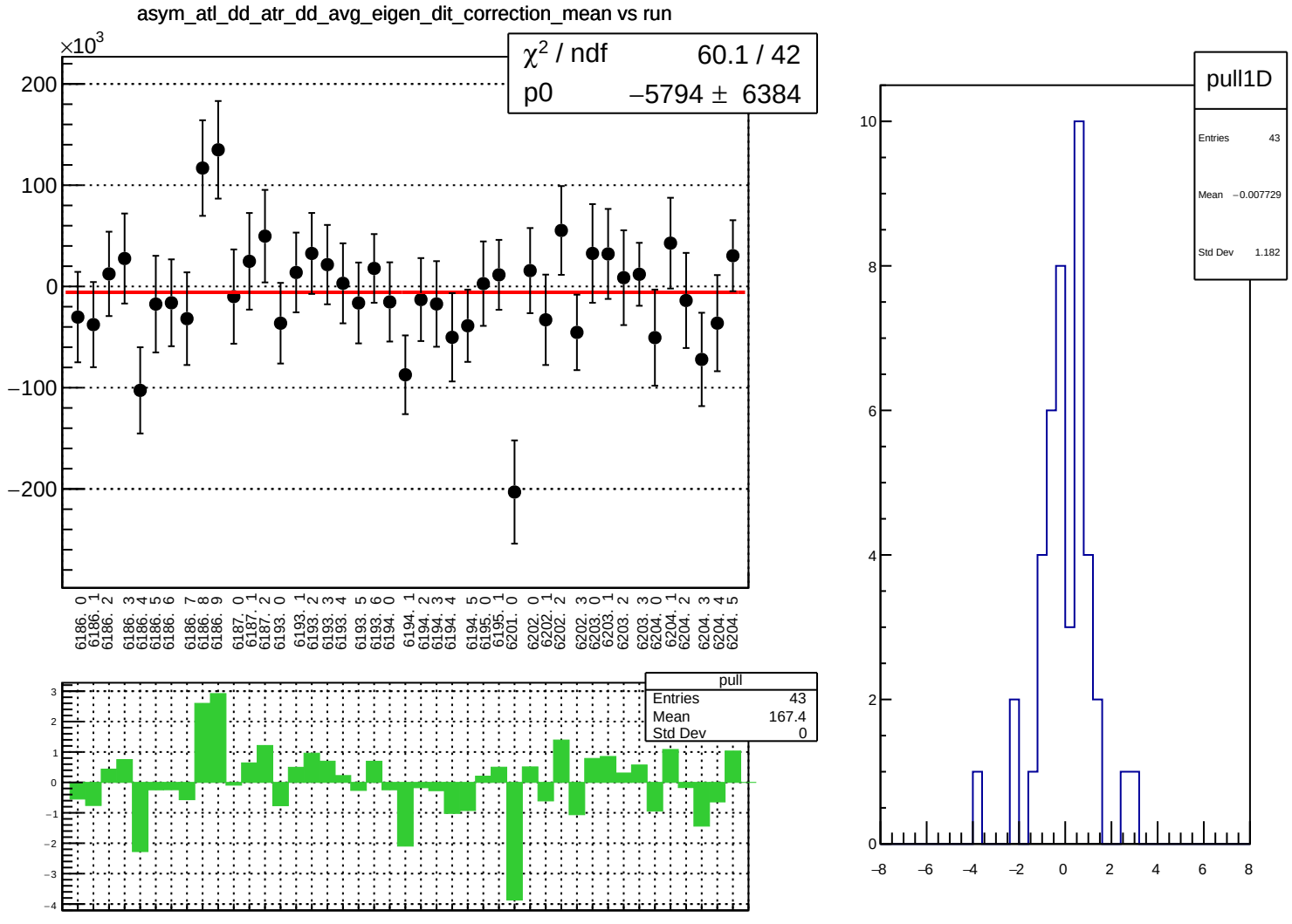
6204. 5


asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 60.1 / 42
p0 −5794 ± 6384
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
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pull
Entries 43
Mean 167.4
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.007729
Std Dev 1.182
10
8
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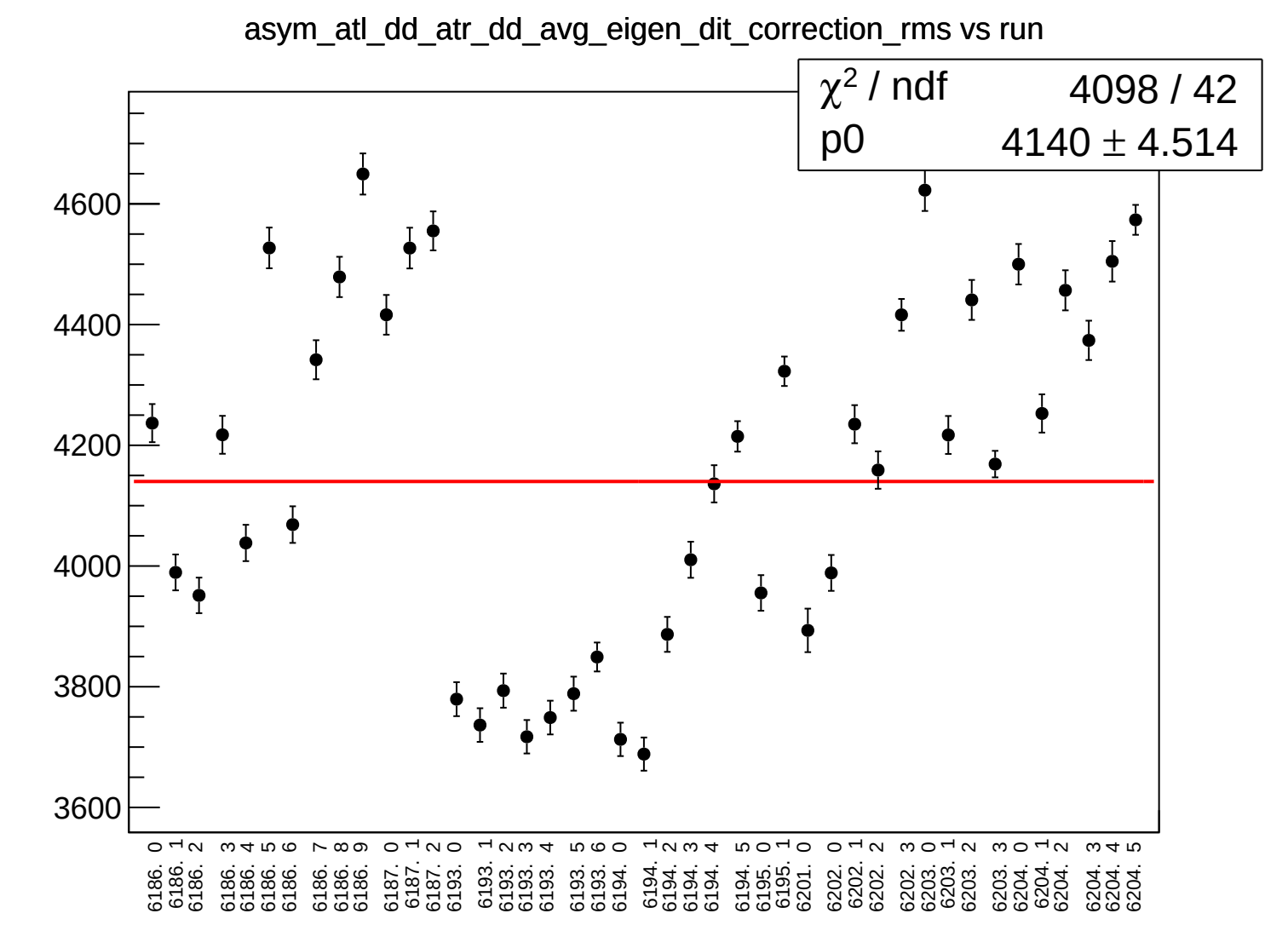
asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4098 / 42
p0 4140 ± 4.514
4600
4400
4200
4000
3800
3600
6186. 0
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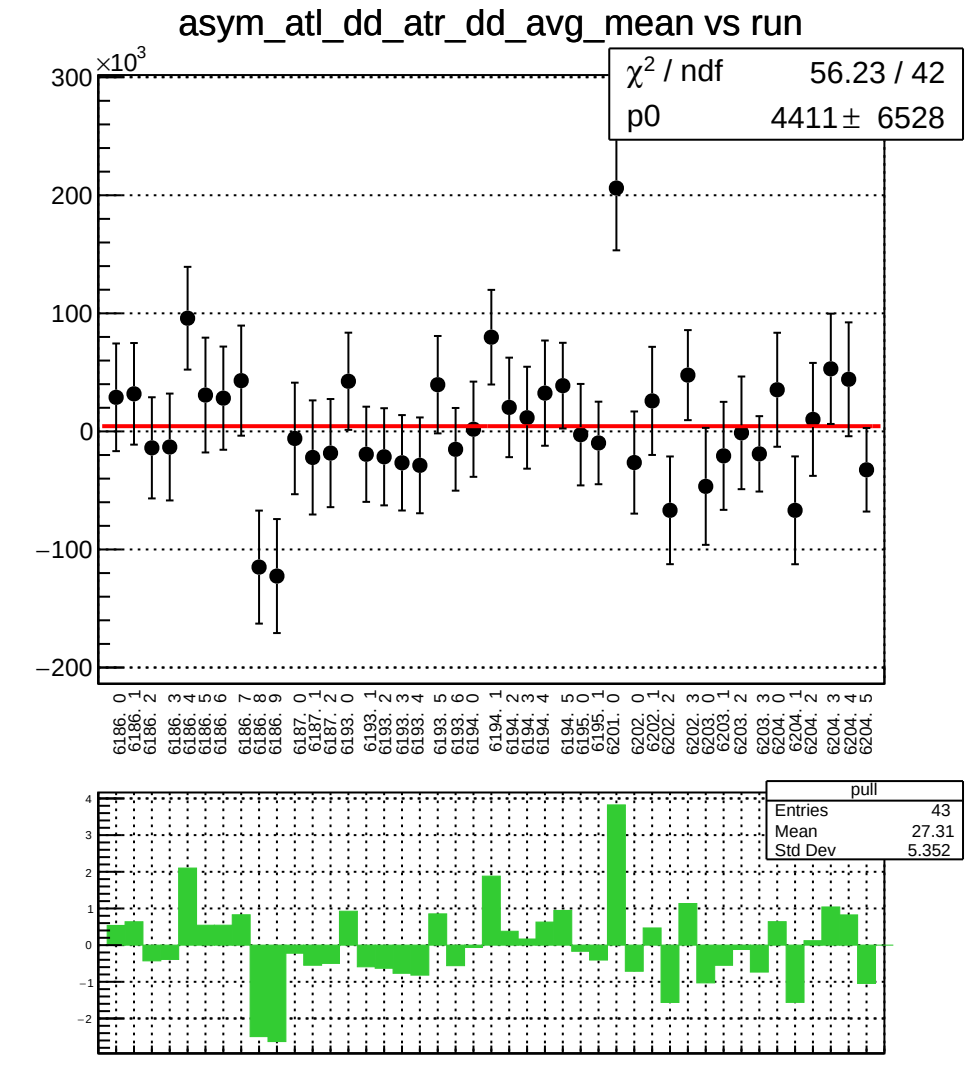
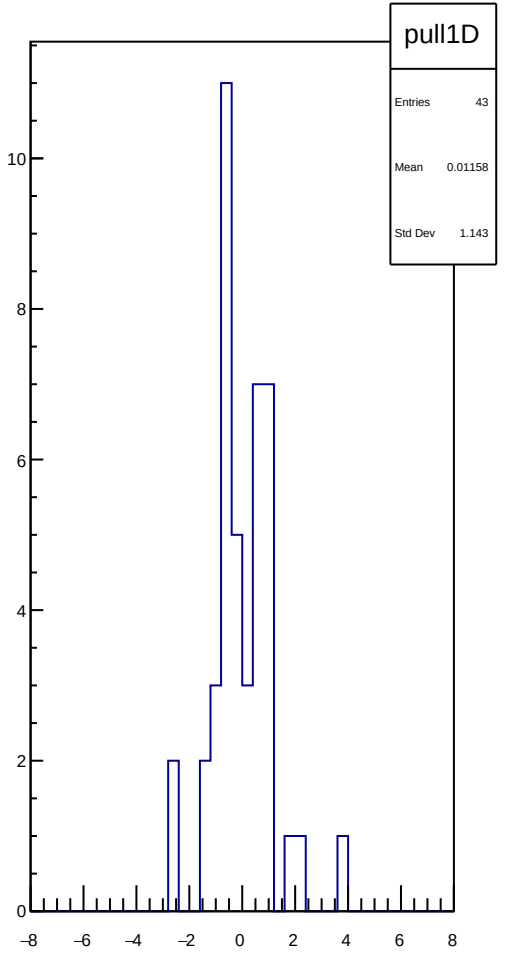
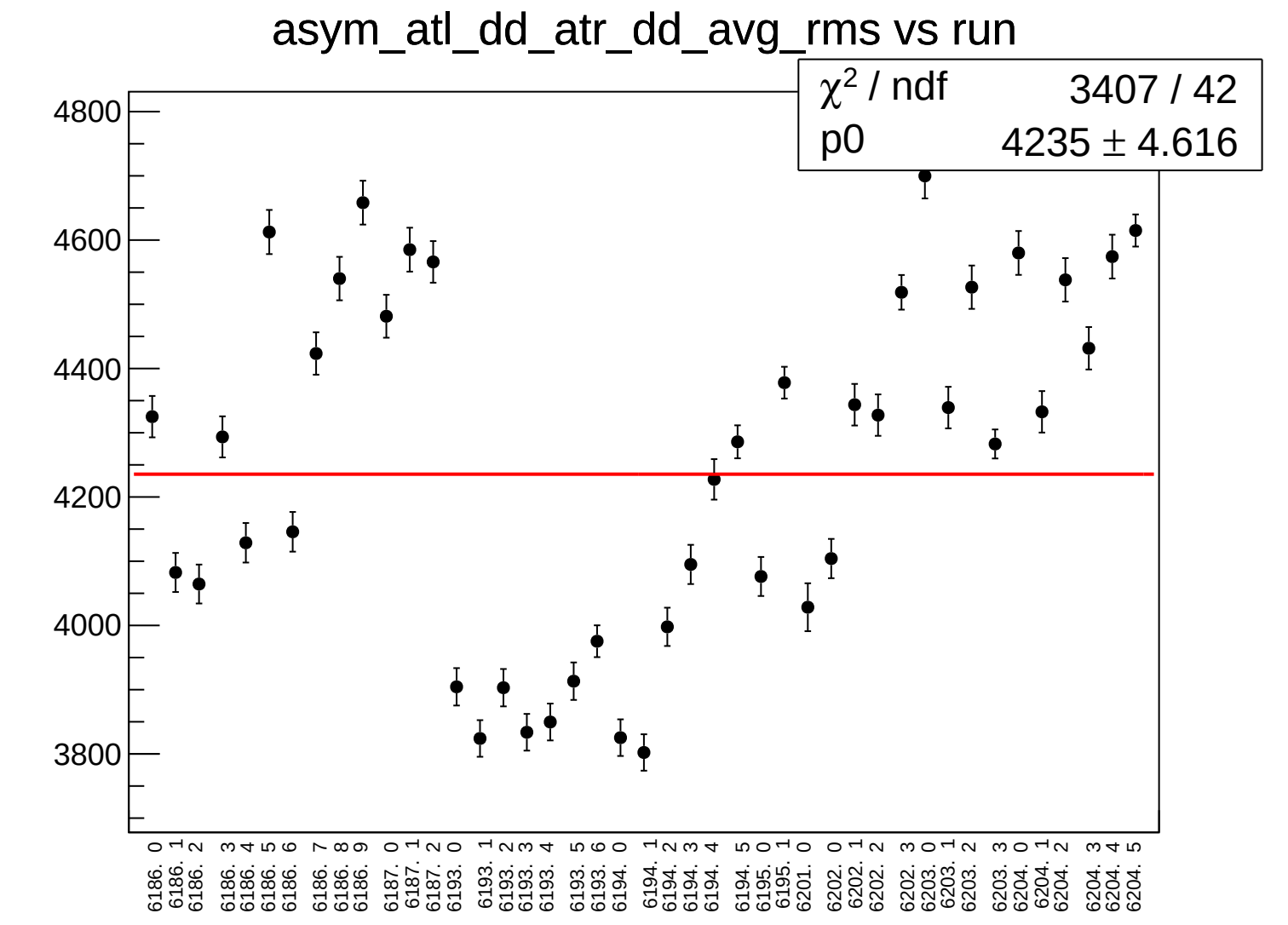
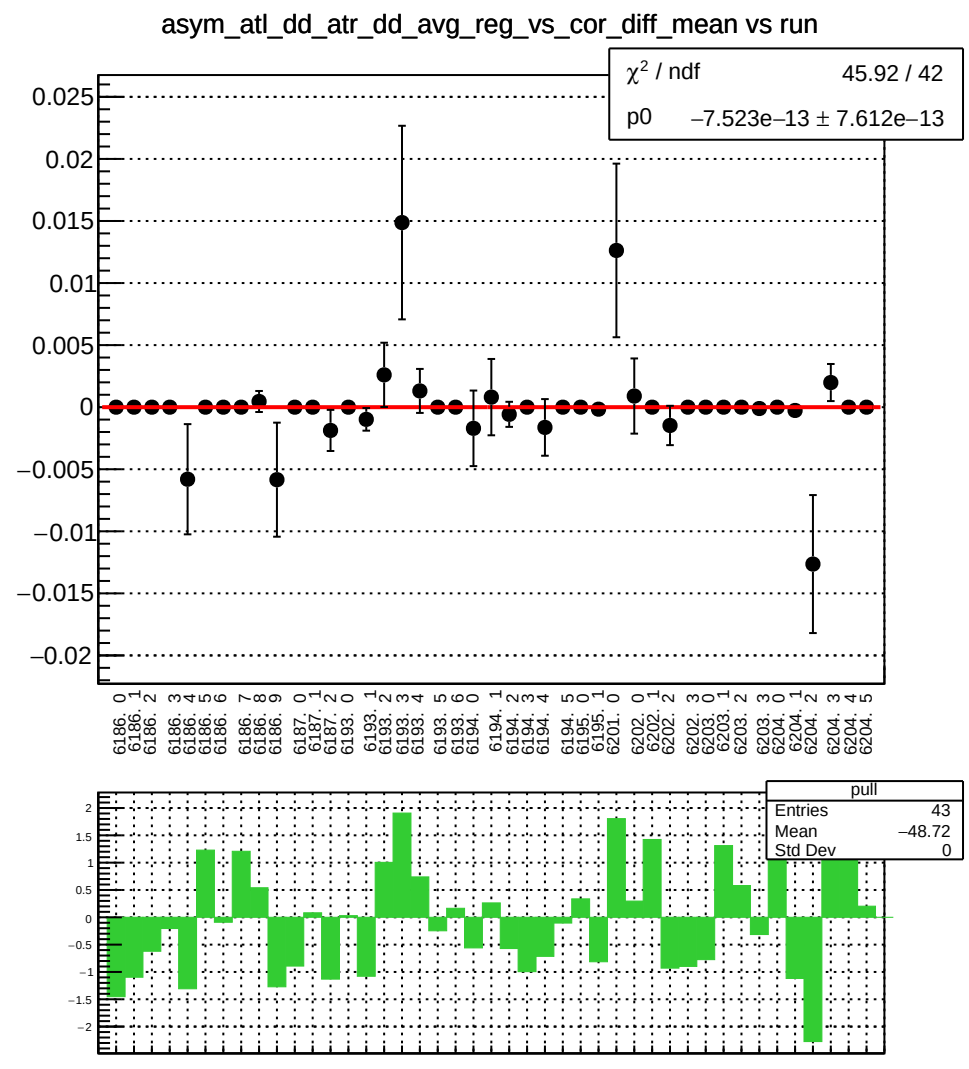
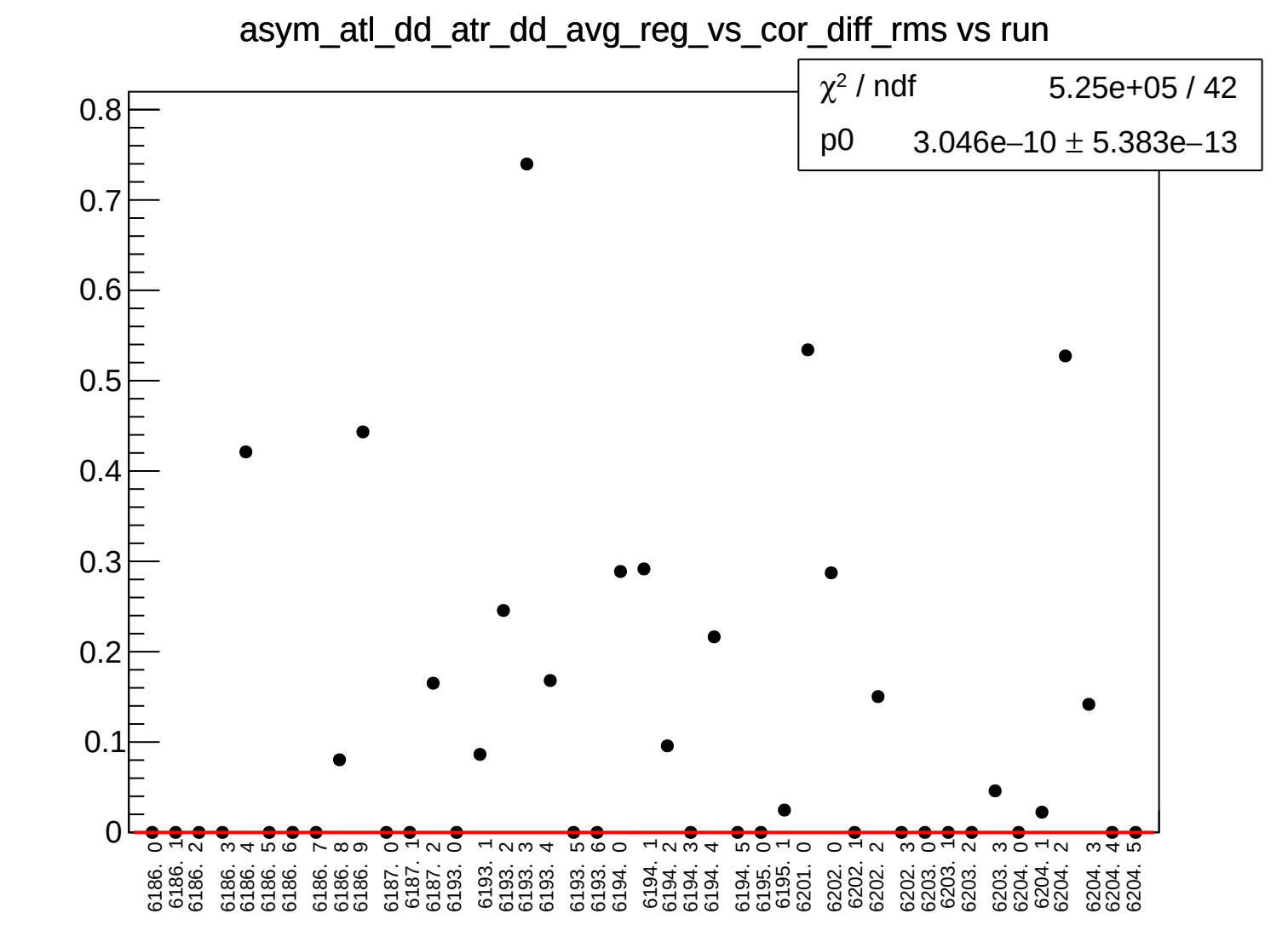
6204. 4
6204. 5

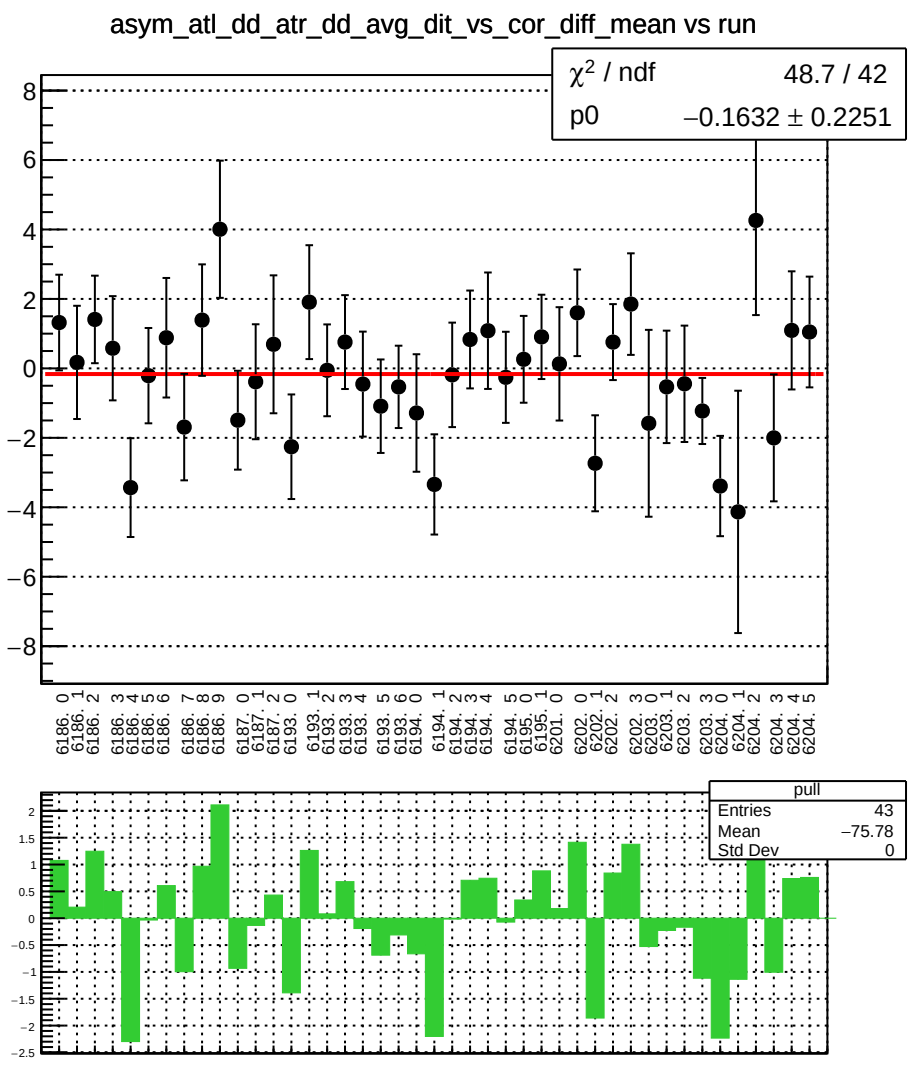

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 56.23 / 42
p0 4411 ± 6528
300
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 27.31
Std Dev 5.352
4
3
2
1
0
−1
−2

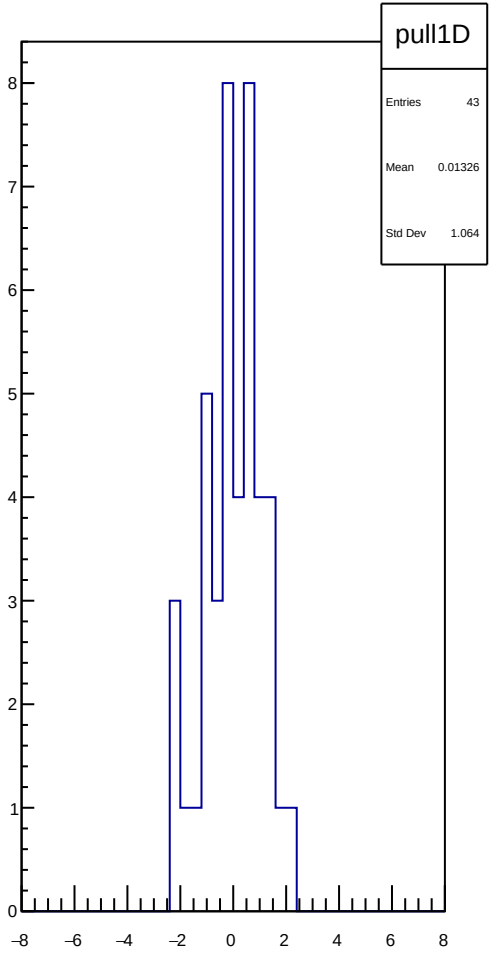

pull1D
Entries 43
Mean 0.01158
Std Dev 1.143
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

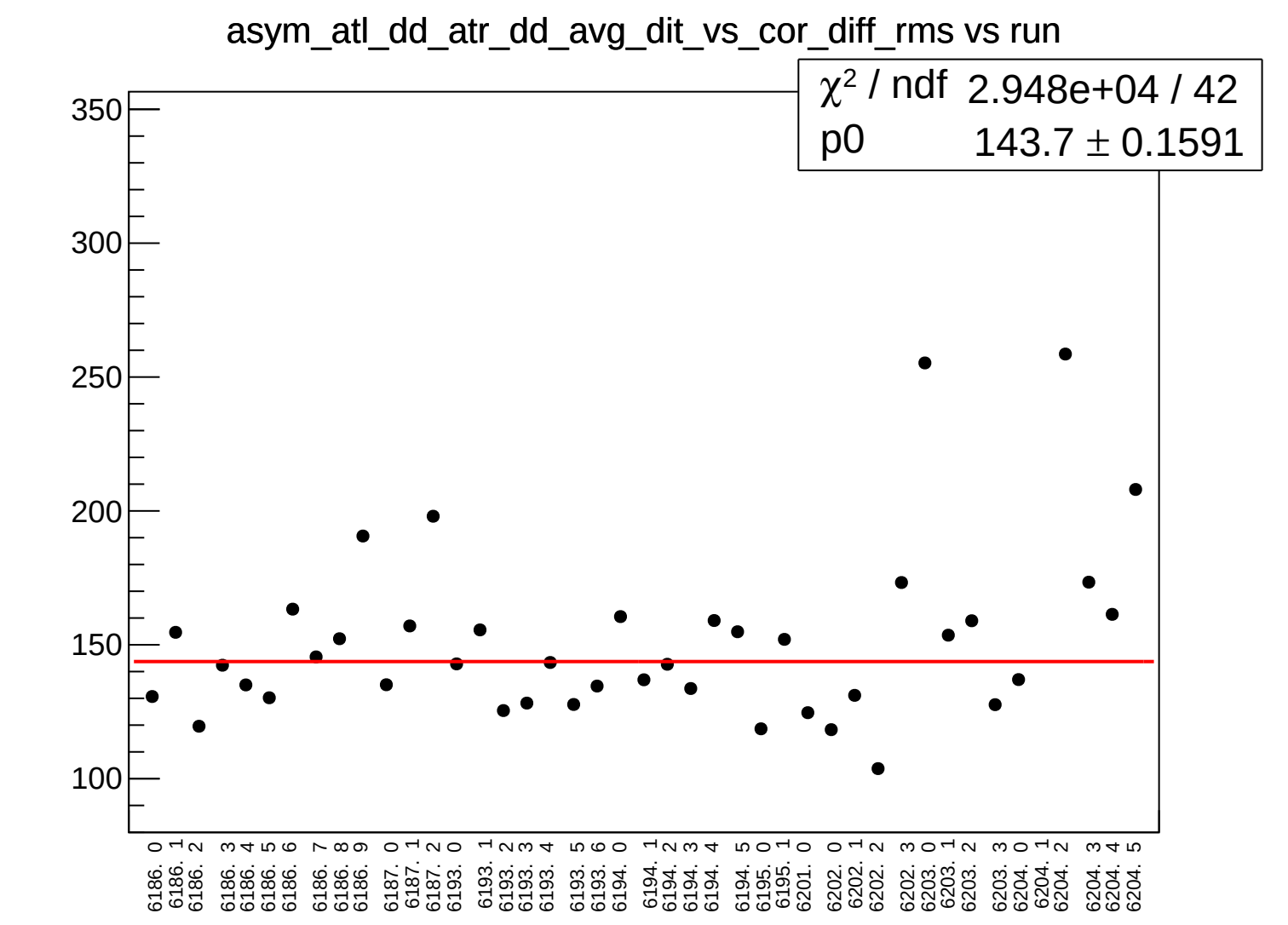

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3407 / 42
p0 4235 ± 4.616
4800
4600
4400
4200
4000
3800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

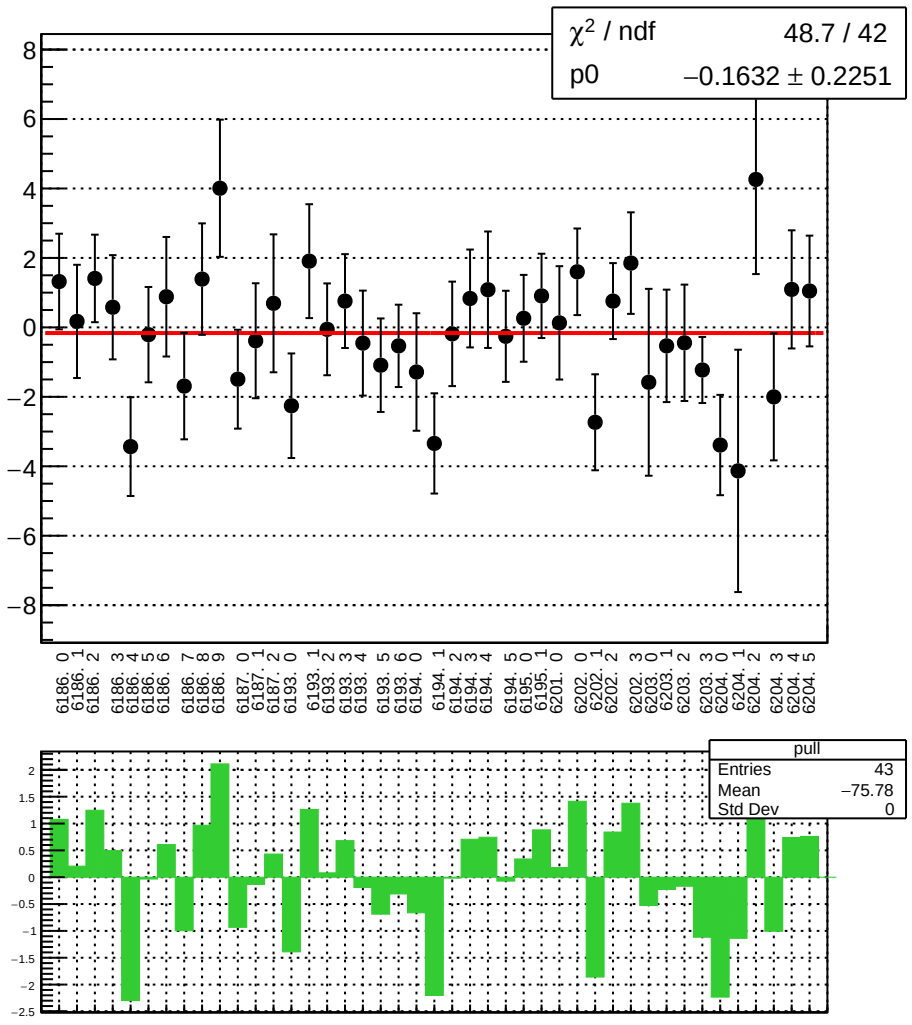

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 45.92 / 42
p0 −7.523e−13 ± 7.612e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −48.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03738
Std Dev 1.033
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

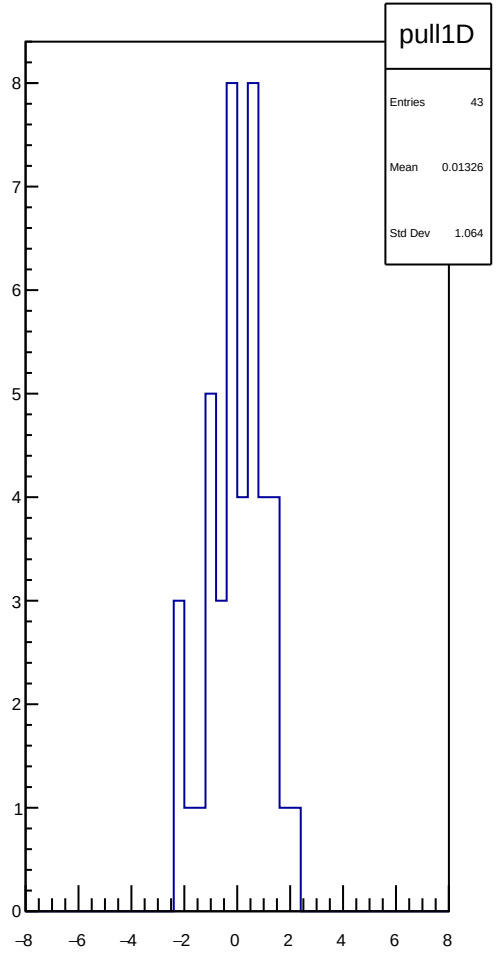

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.25e+05 / 42
p0 3.046e−10 ± 5.383e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

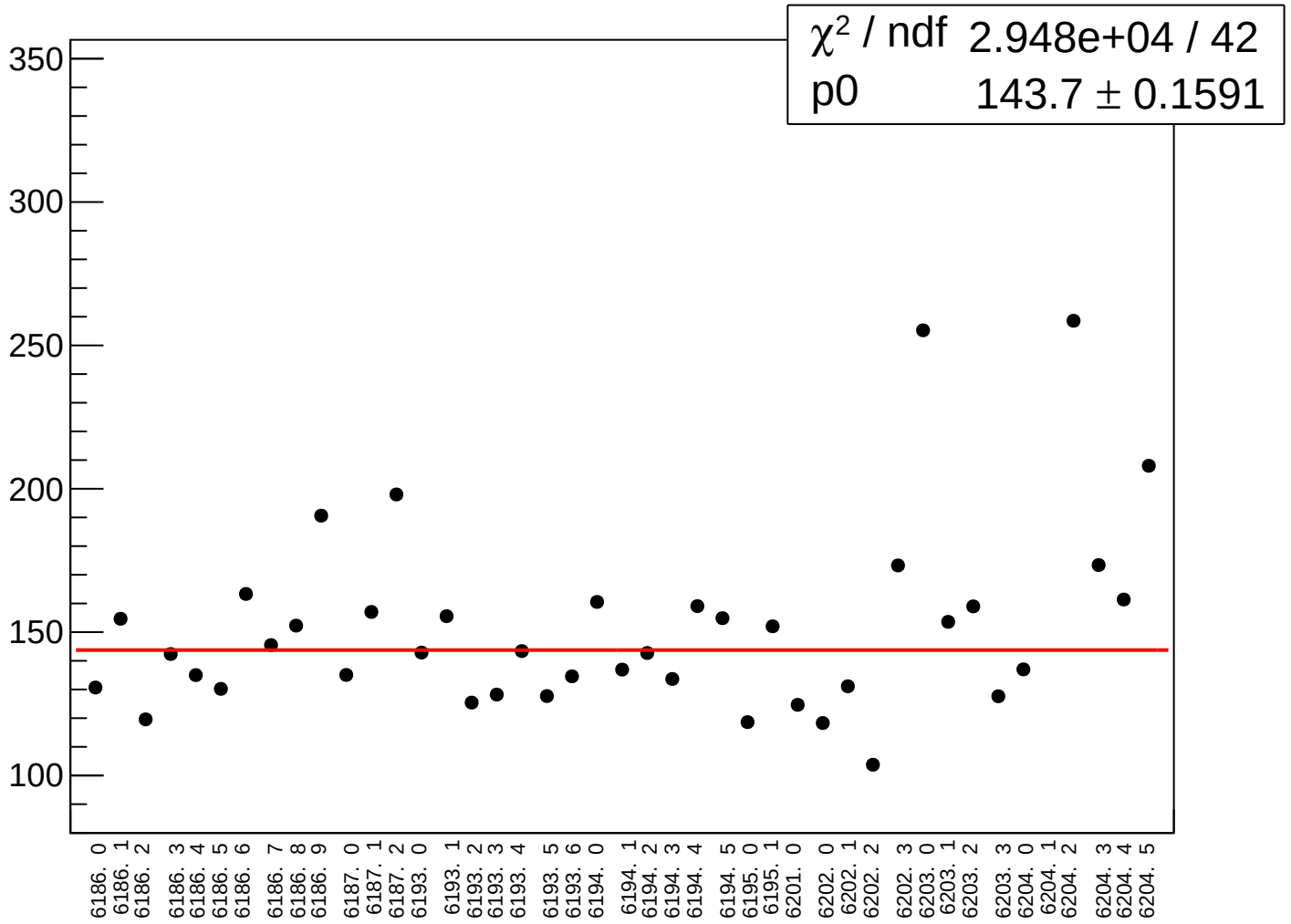

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 48.7 / 42
p0 −0.1632 ± 0.2251
pull
Entries 43
Mean −75.78
Std Dev 0

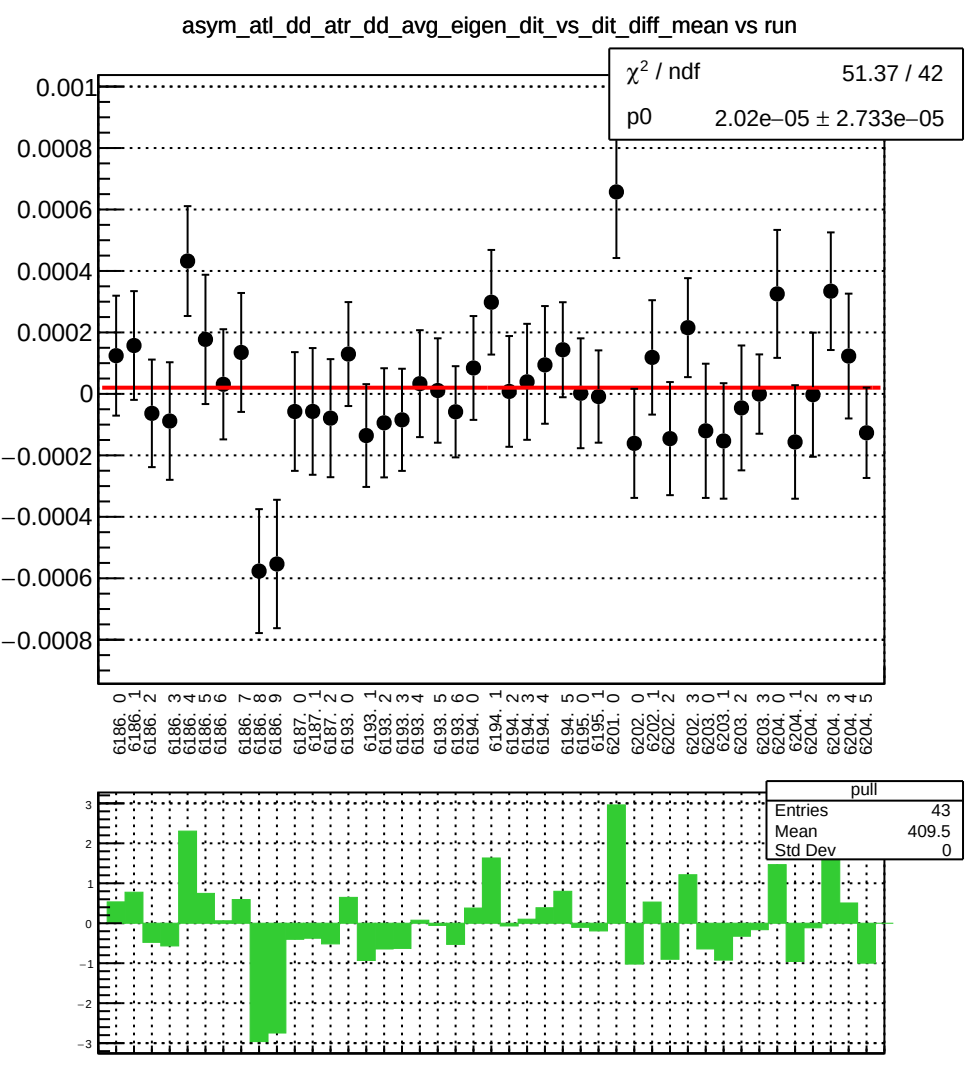

pull1D
Entries 43
Mean 0.01326
Std Dev 1.064

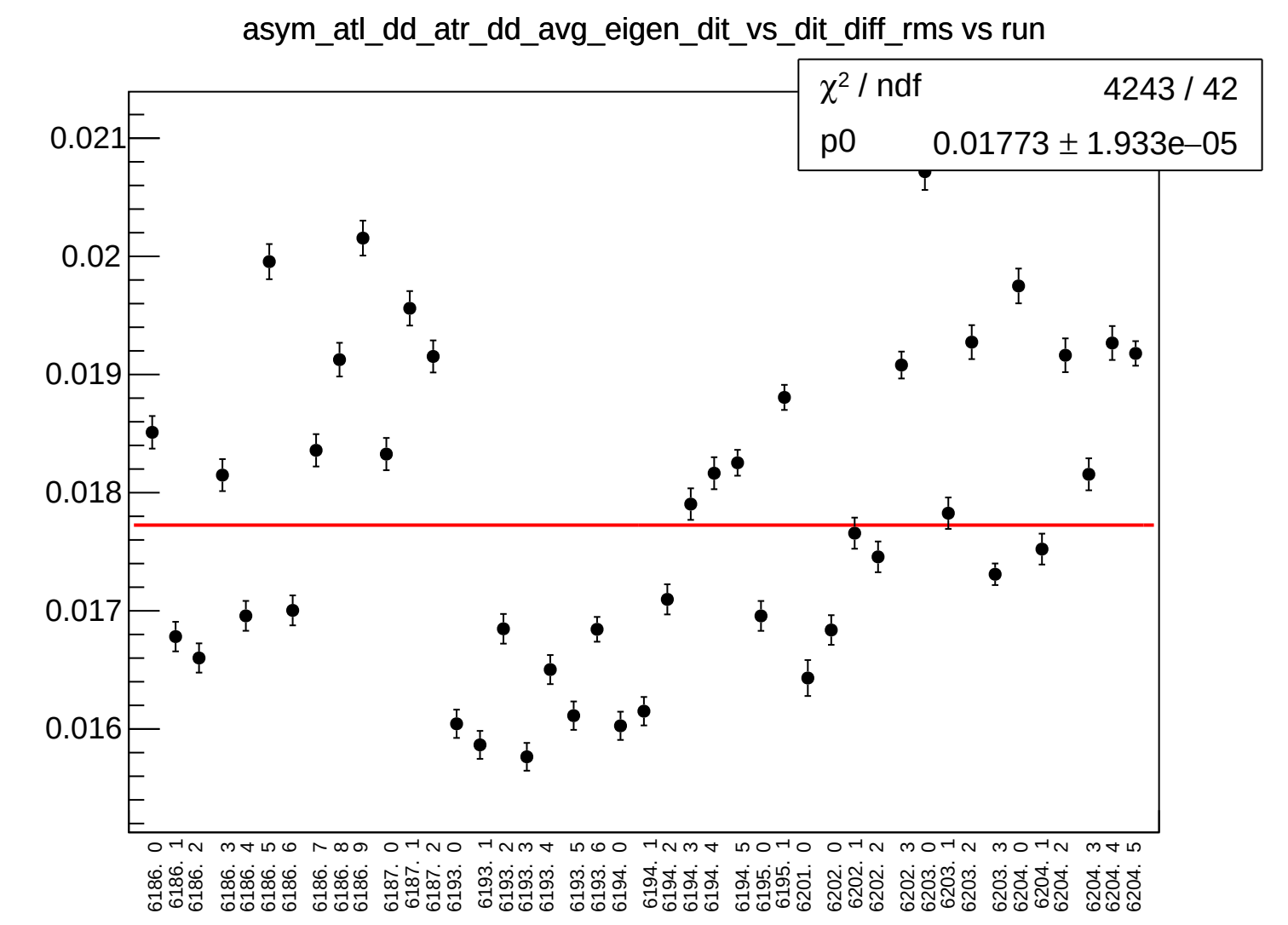

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.948e+04 / 42
p0 143.7 ± 0.1591
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

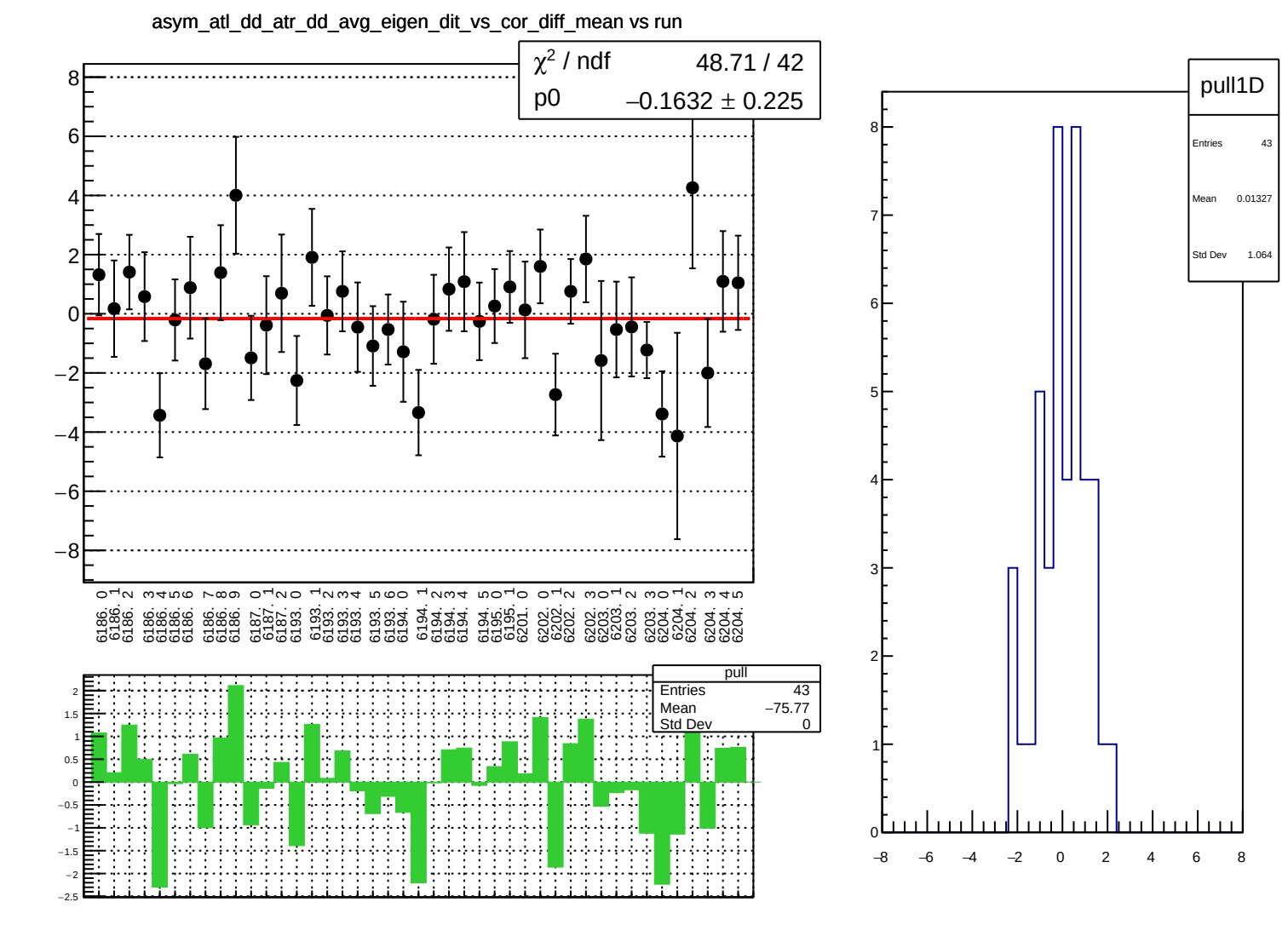

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.7 / 42
p0 −0.1632 ± 0.2251
pull
Entries 43
Mean −75.78
Std Dev 0

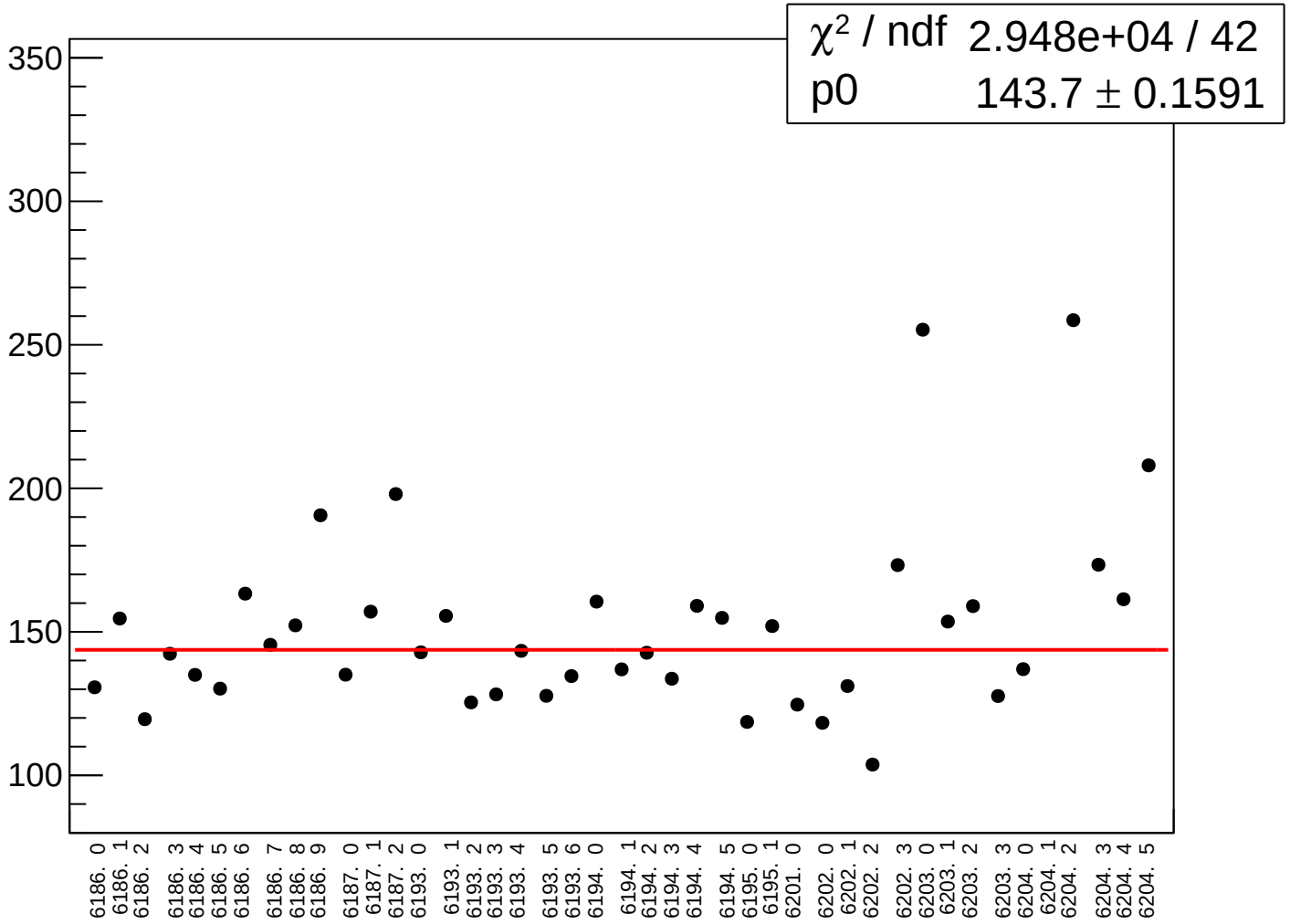

pull1D
Entries 43
Mean 0.01326
Std Dev 1.064

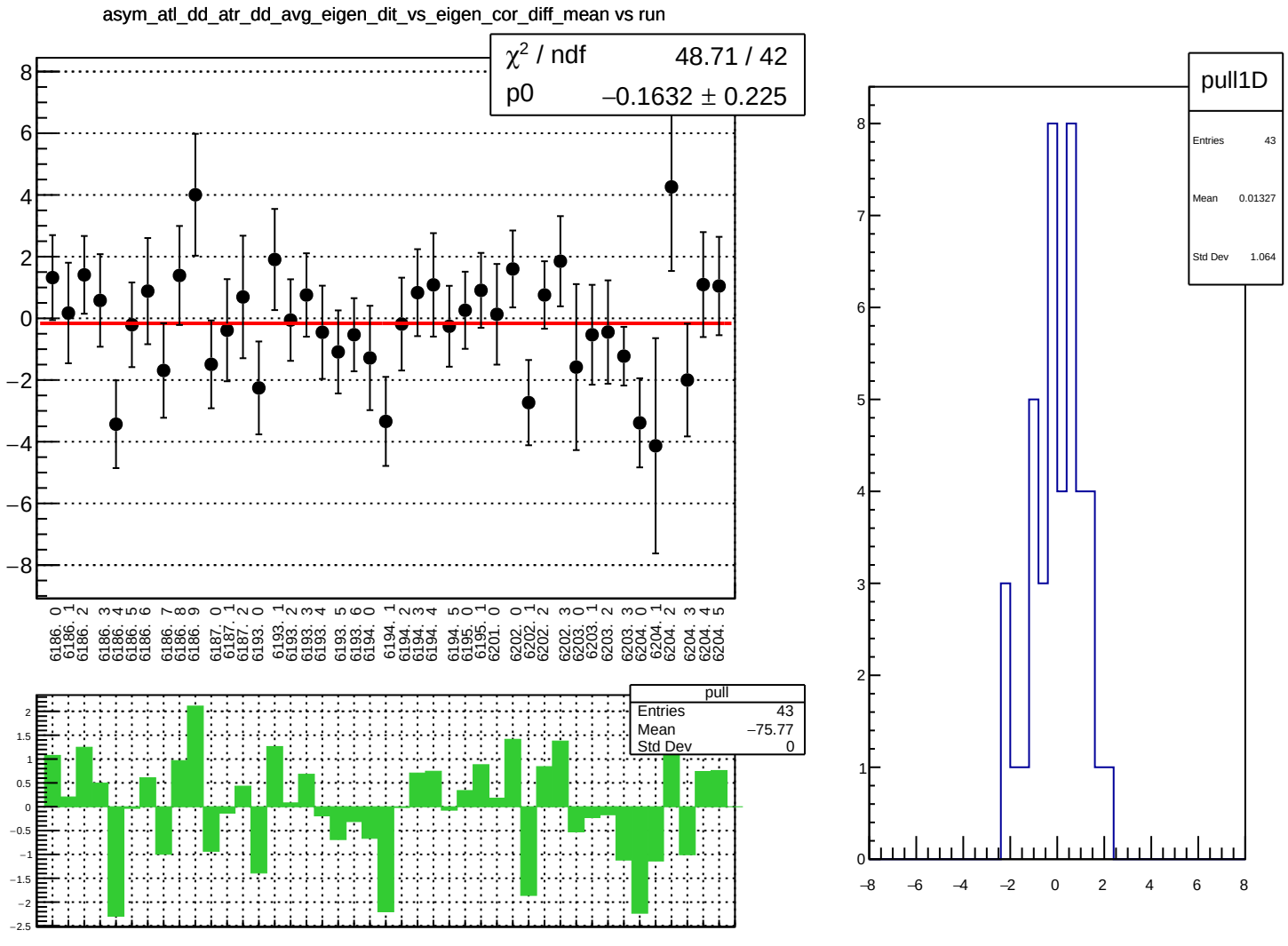

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.948e+04 / 42
p0 143.7 ± 0.1591
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

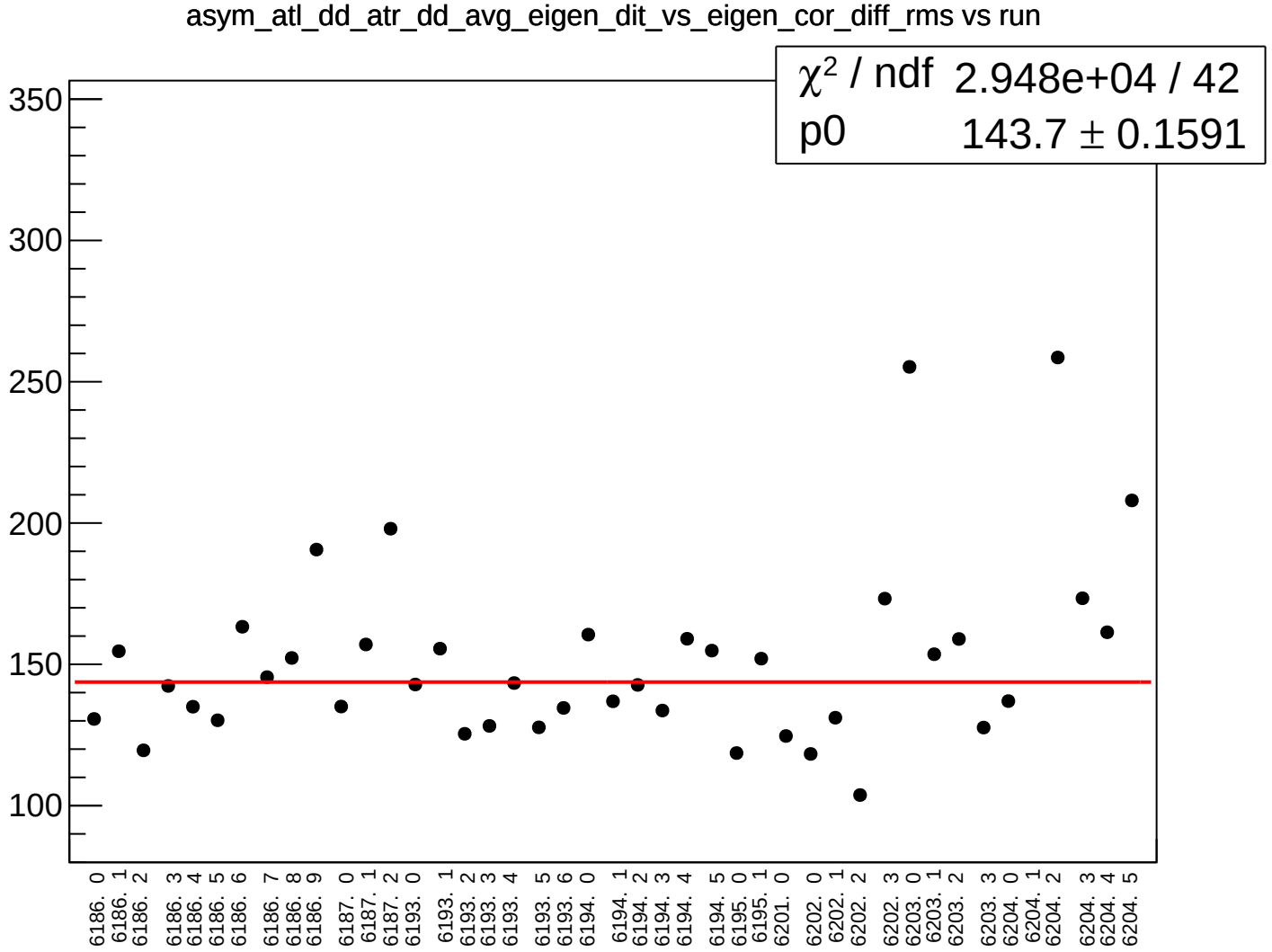

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 51.37 / 42
p0 2.02e−05 ± 2.733e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 409.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.002918
Std Dev 1.093
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

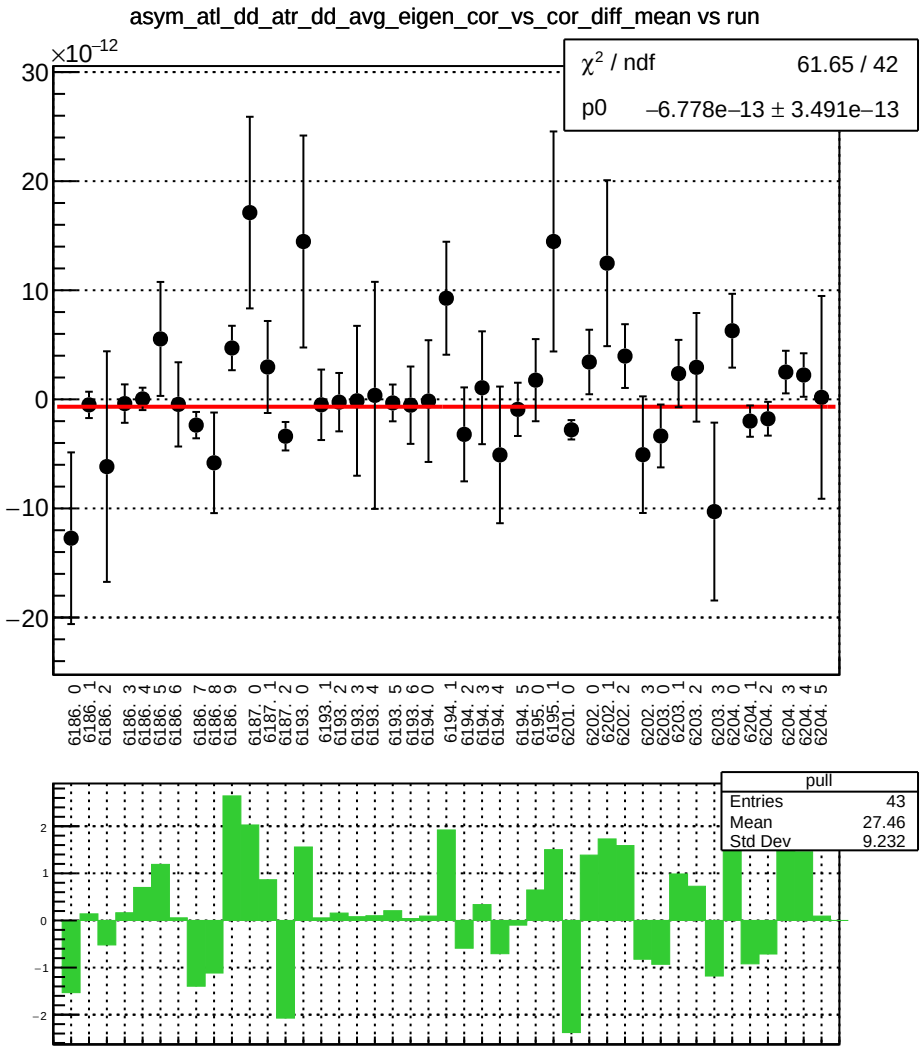

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4243 / 42
p0 0.01773 ± 1.933e−05
0.021
0.02
0.019
0.018
0.017
0.016
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

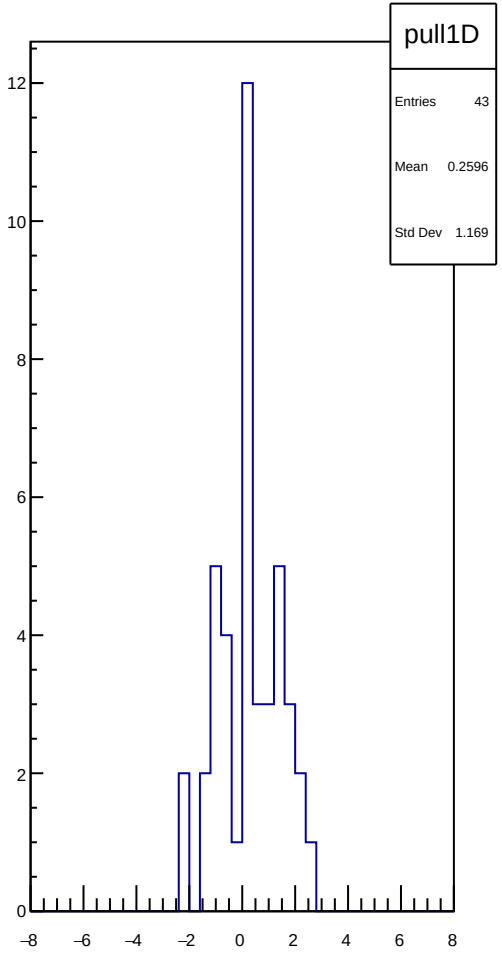

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.71 / 42
p0 −0.1632 ± 0.225
pull
Entries 43
Mean −75.77
Std Dev 0
pull1D
Entries 43
Mean 0.01327
Std Dev 1.064

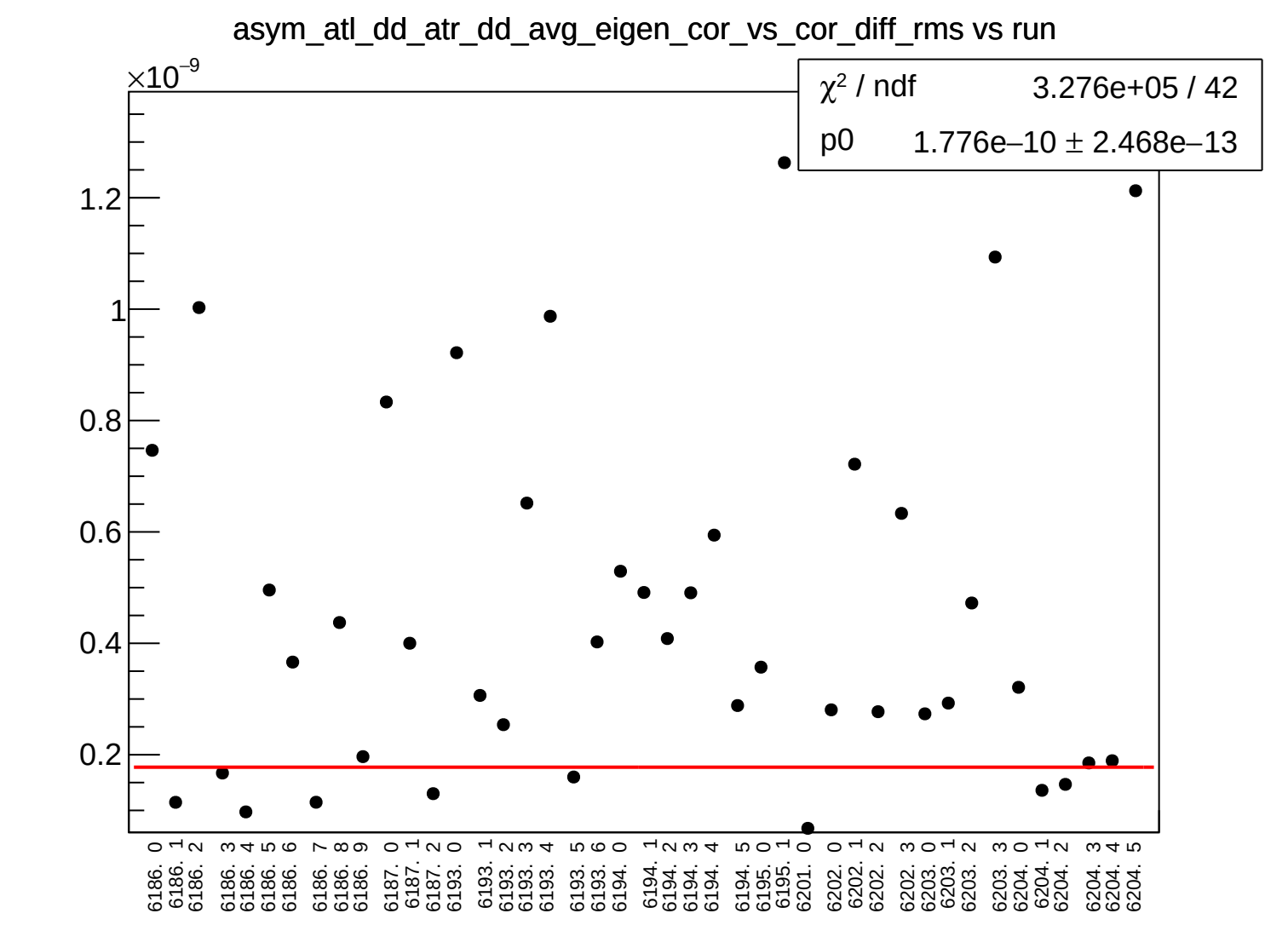

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.948e+04 / 42
p0 143.7 ± 0.1591
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

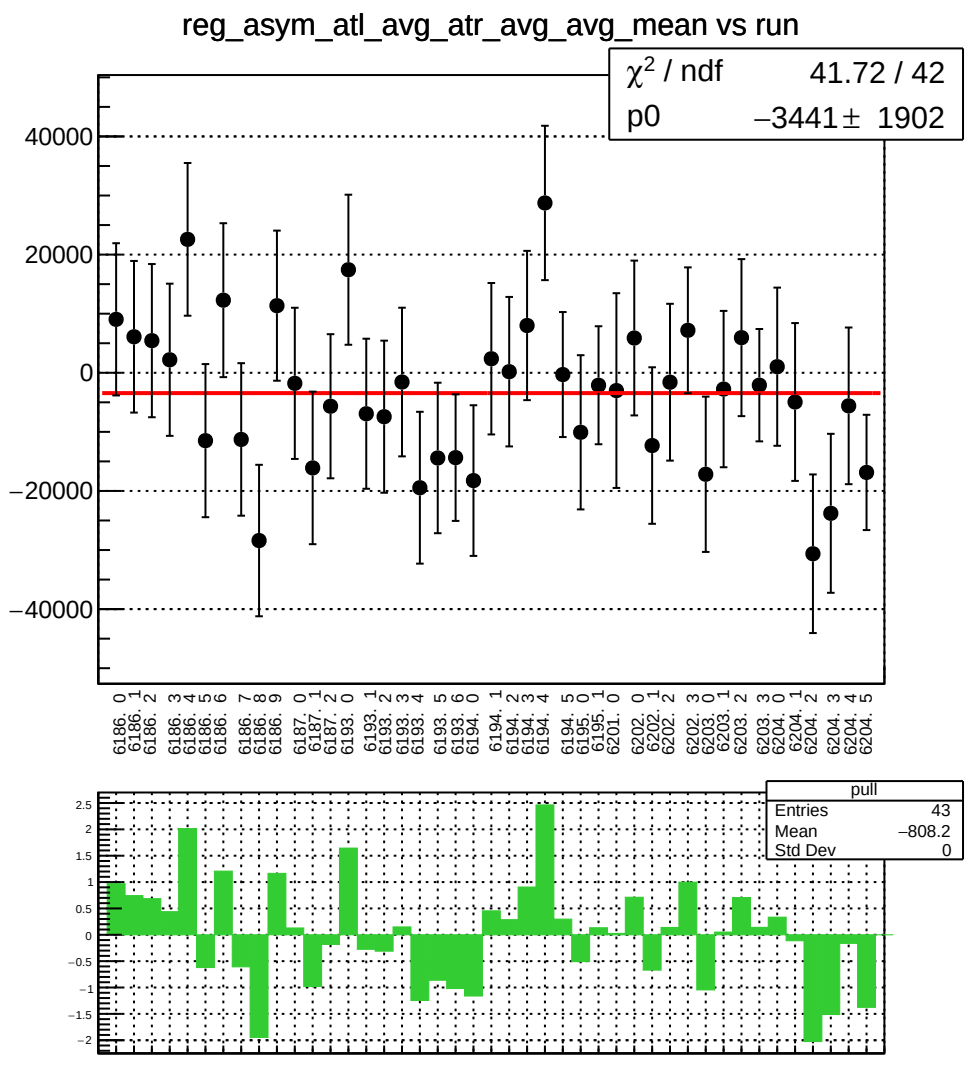

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.71 / 42
p0 −0.1632 ± 0.225
pull
Entries 43
Mean −75.77
Std Dev 0
pull1D
Entries 43
Mean 0.01327
Std Dev 1.064

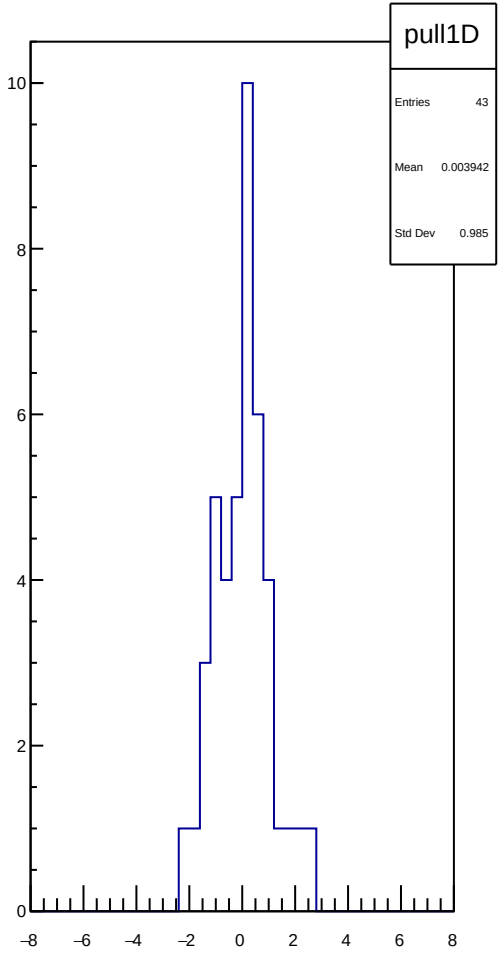

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.948e+04 / 42
p0 143.7 ± 0.1591
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.65 / 42
p0 −6.778e−13 ± 3.491e−13
pull
Entries 43
Mean 27.46
Std Dev 9.232


pull1D
Entries 43
Mean 0.2596
Std Dev 1.169


asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.276e+05 / 42
p0 1.776e−10 ± 2.468e−13
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 41.72 / 42
p0 −3441 ± 1902
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −808.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean 0.003942
Std Dev 0.985
10
8
6
4
2
0
−8
−6
−4
−2
0
2
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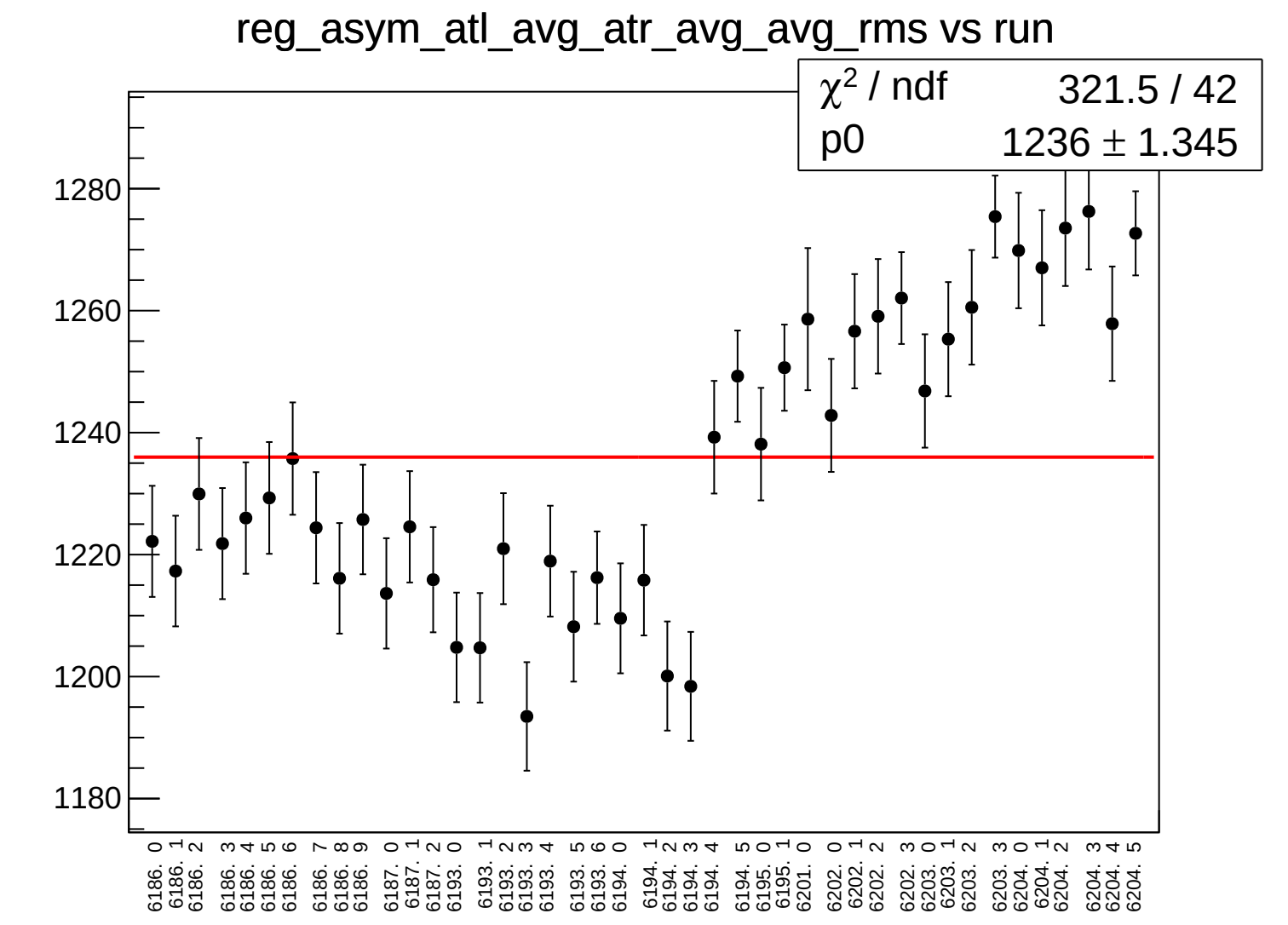
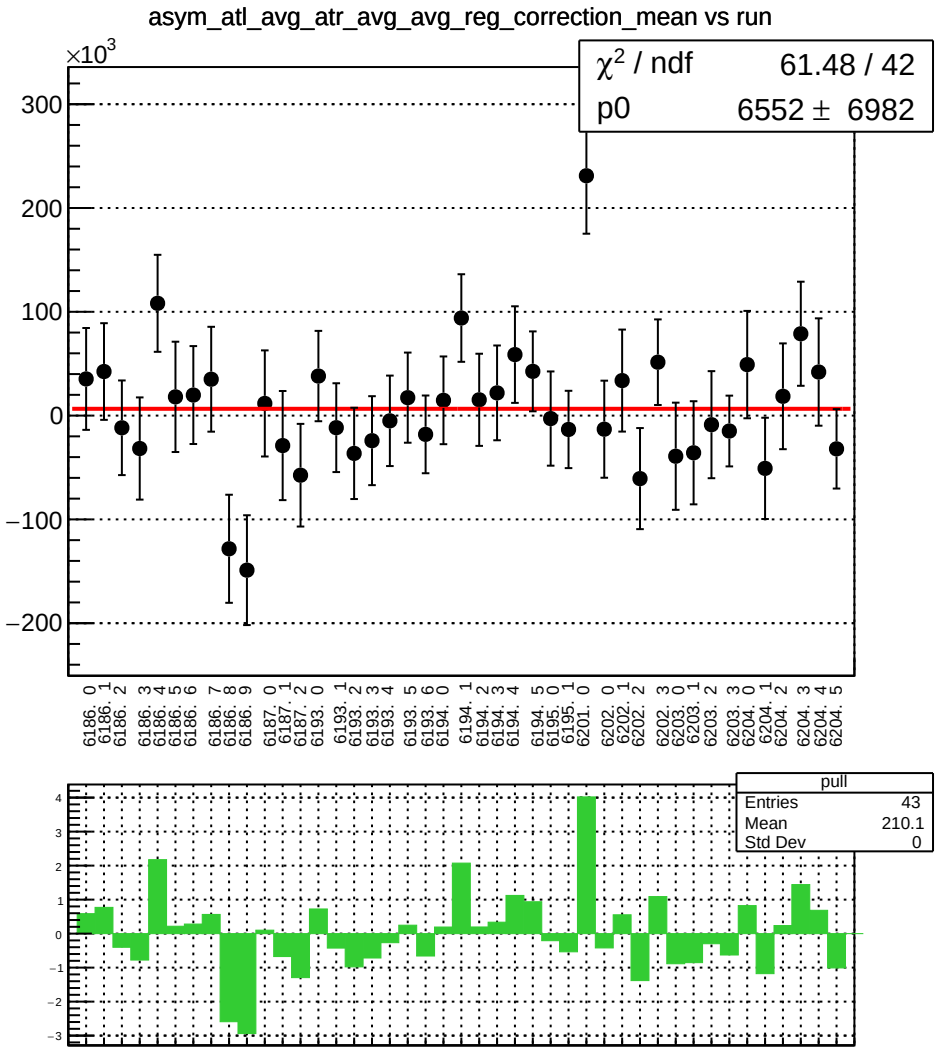
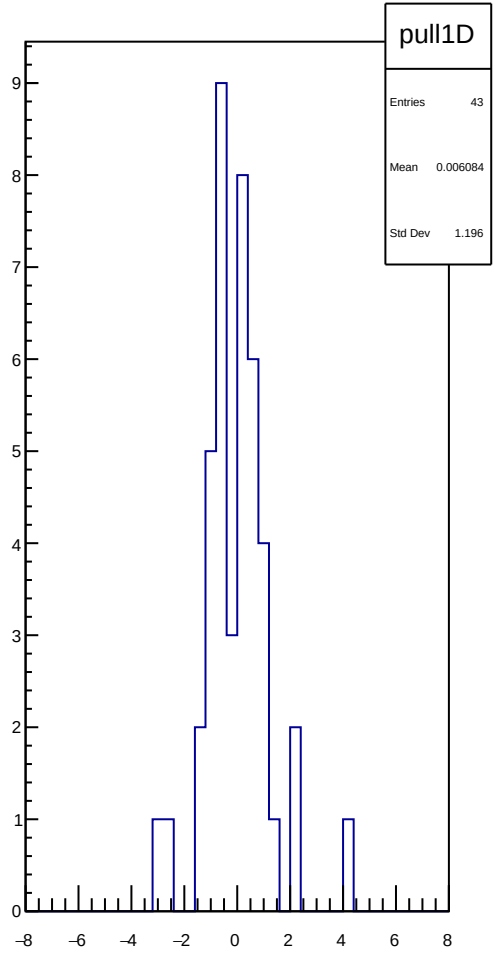
6
8


reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 321.5 / 42
p0 1236 ± 1.345
1280
1260
1240
1220
1200
1180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 61.48 / 42
p0 6552 ± 6982
300
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 210.1
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.006084
Std Dev 1.196
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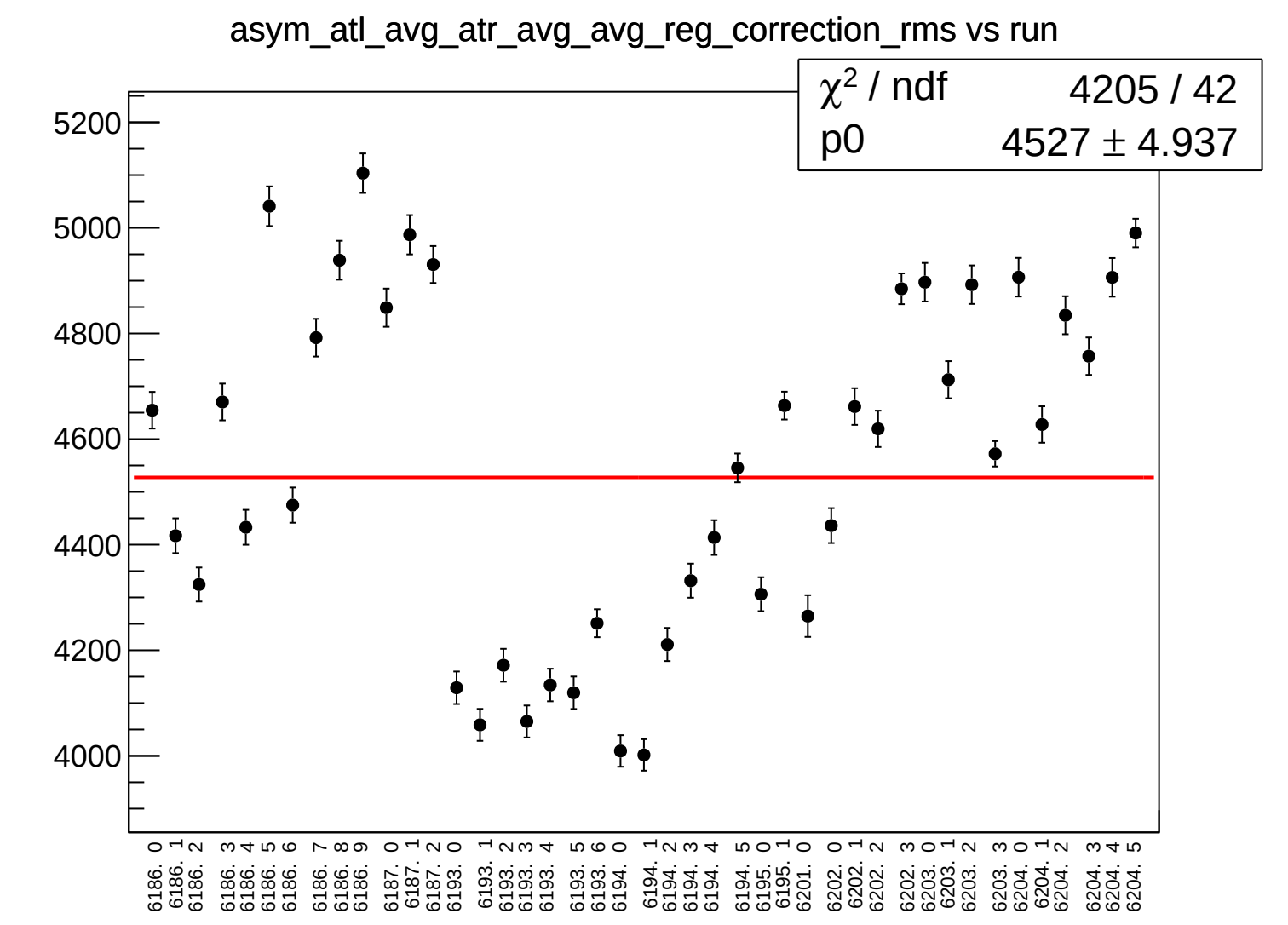
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 4205 / 42
p0 4527 ± 4.937
5200
5000
4800
4600
4400
4200
4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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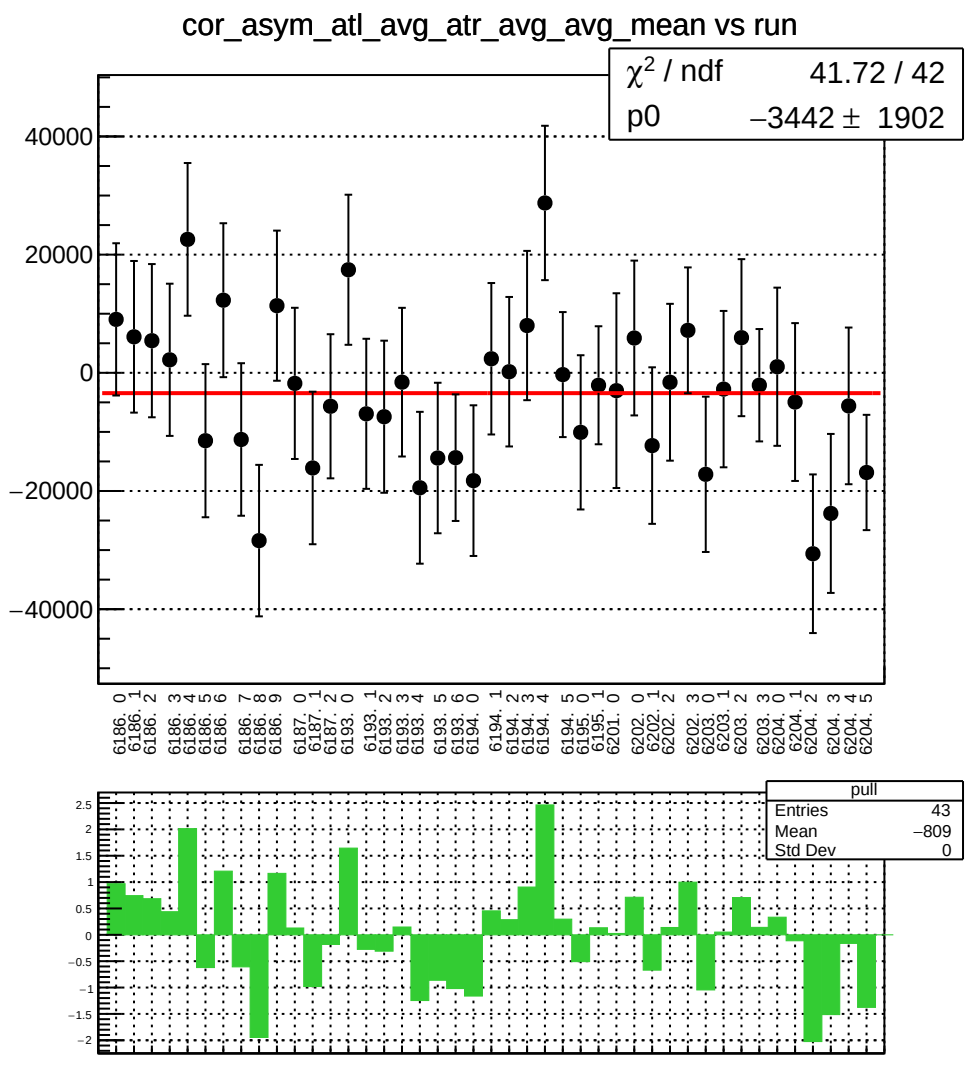
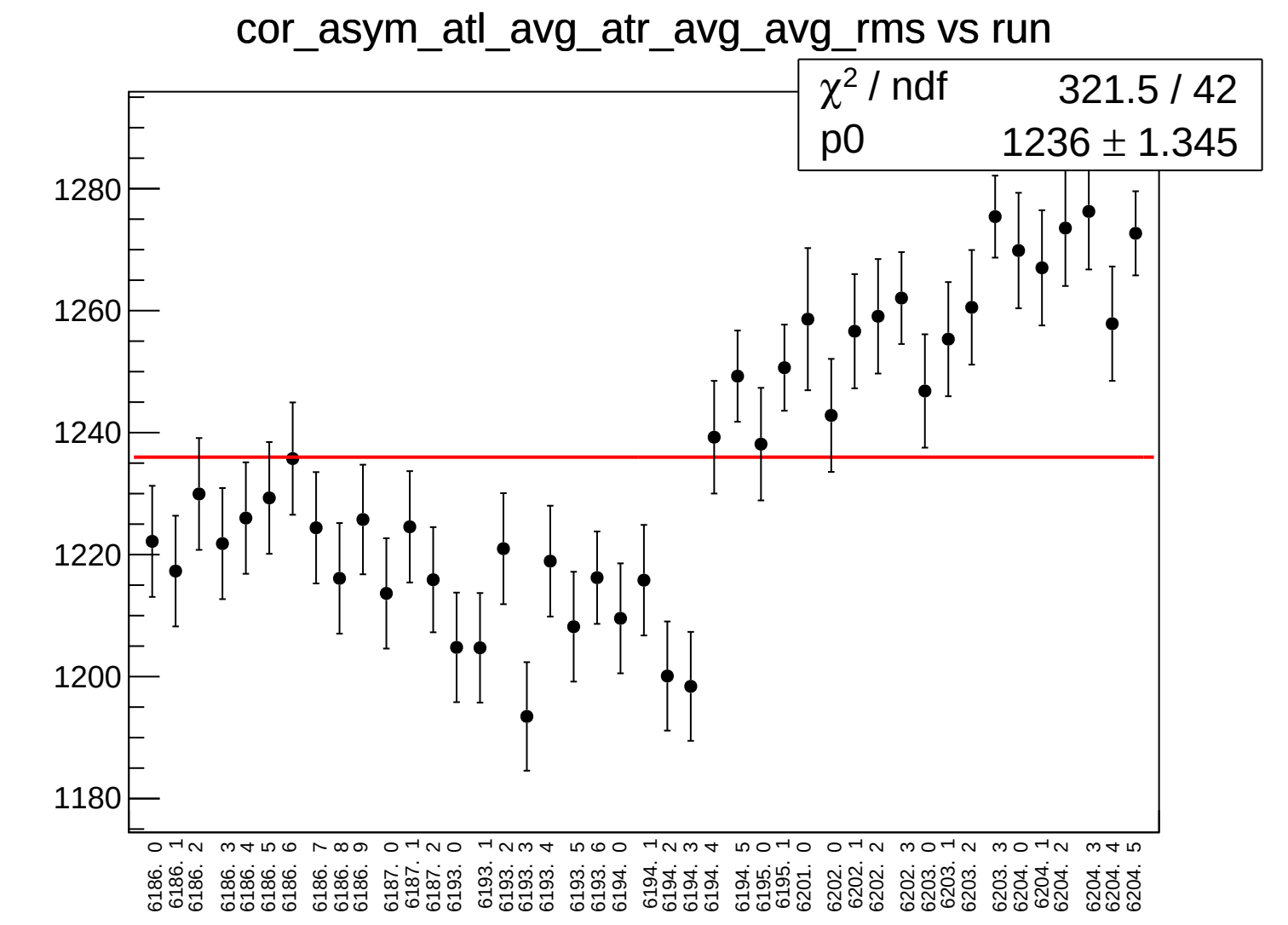
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 41.72 / 42
p0 −3442 ± 1902
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −809
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.003938
Std Dev 0.985
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 321.5 / 42
p0 1236 ± 1.345
1280
1260
1240
1220
1200
1180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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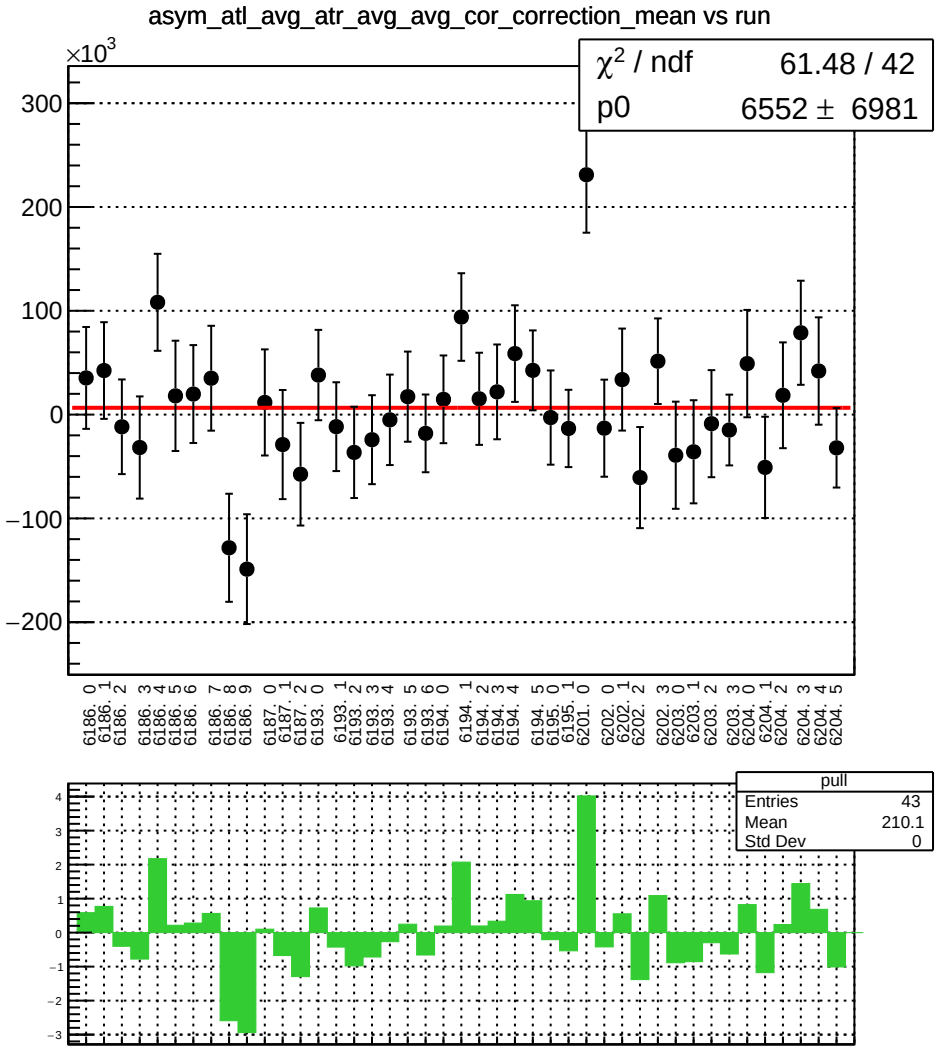
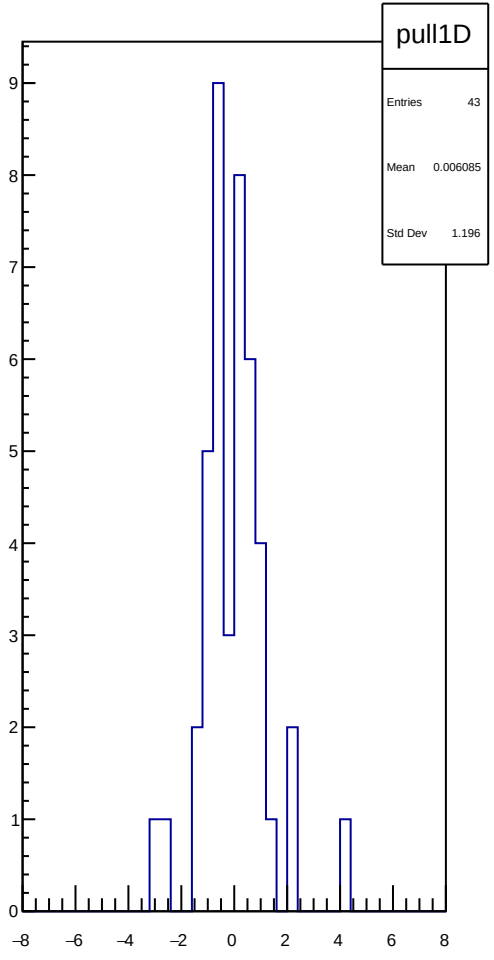
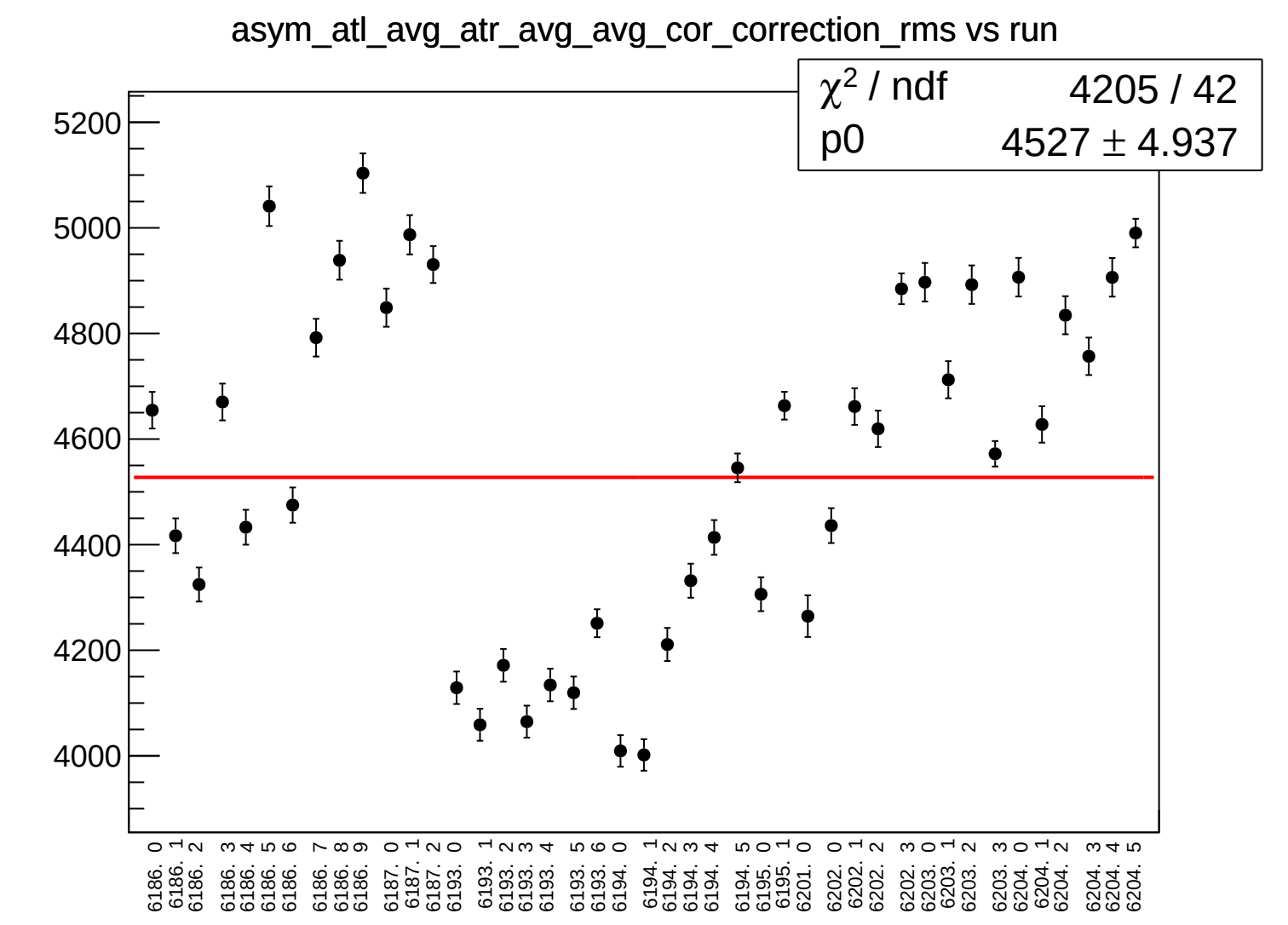
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 61.48 / 42
p0 6552 ± 6981
300
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 210.1
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.006085
Std Dev 1.196
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_cor_correction_rms vs run
χ² / ndf 4205 / 42
p0 4527 ± 4.937
5200
5000
4800
4600
4400
4200
4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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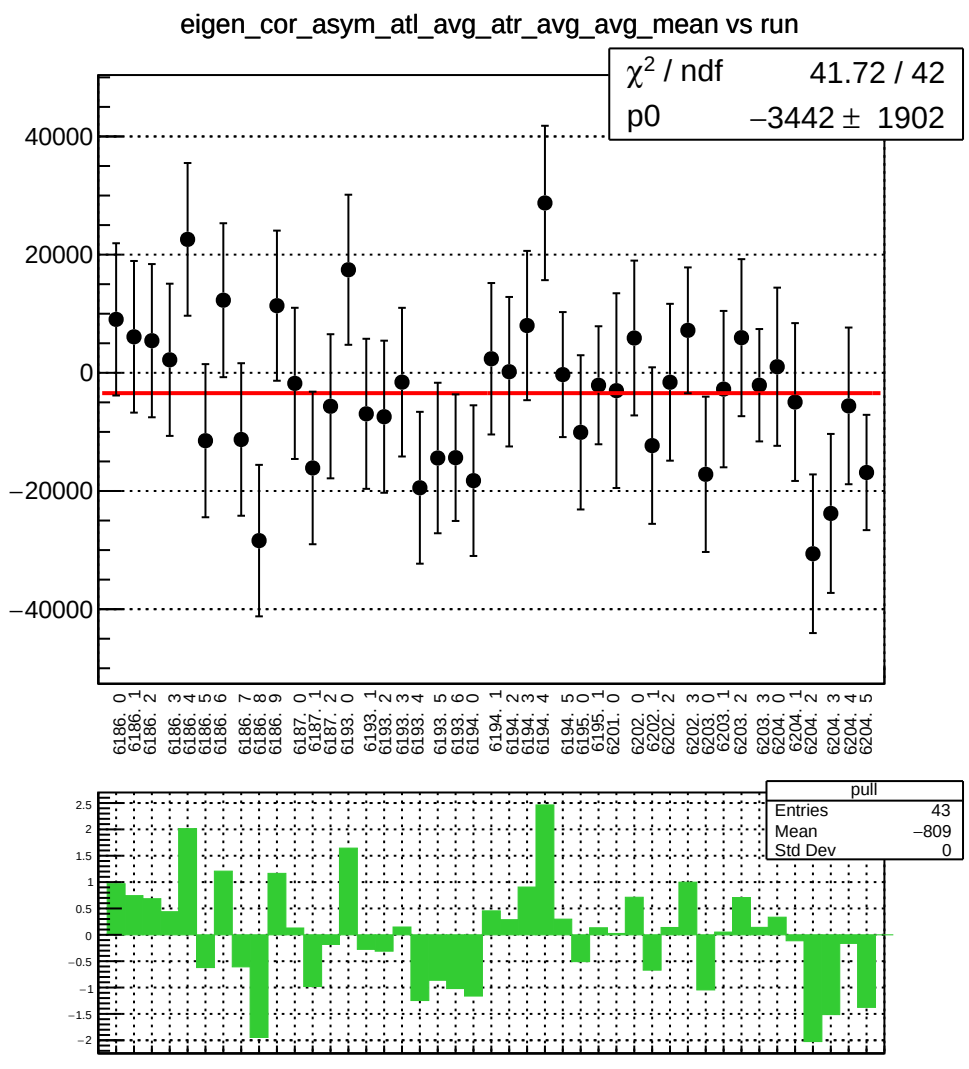
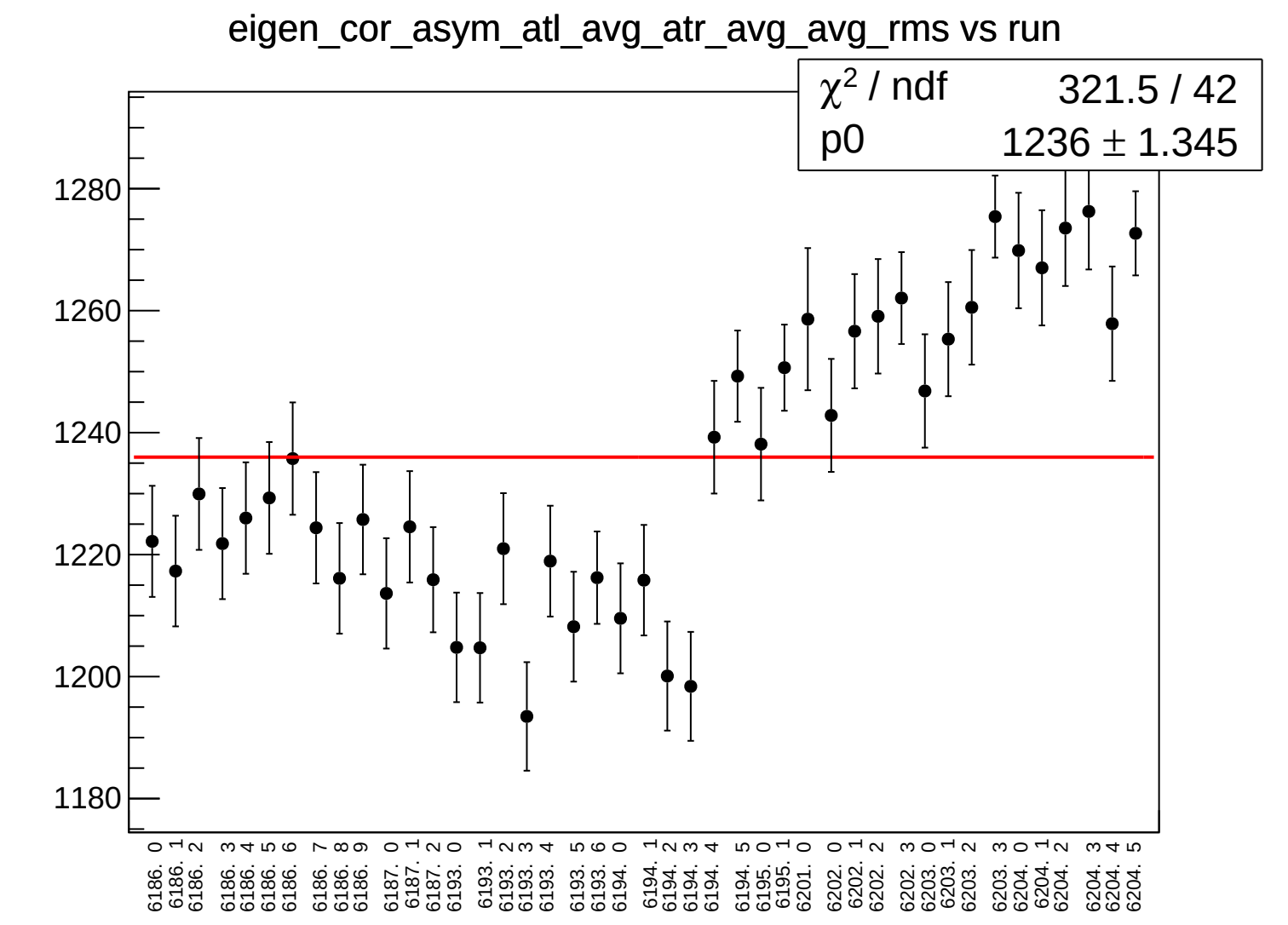
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 41.72 / 42
p0 −3442 ± 1902
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −809
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.003938
Std Dev 0.985
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 321.5 / 42
p0 1236 ± 1.345
1280
1260
1240
1220
1200
1180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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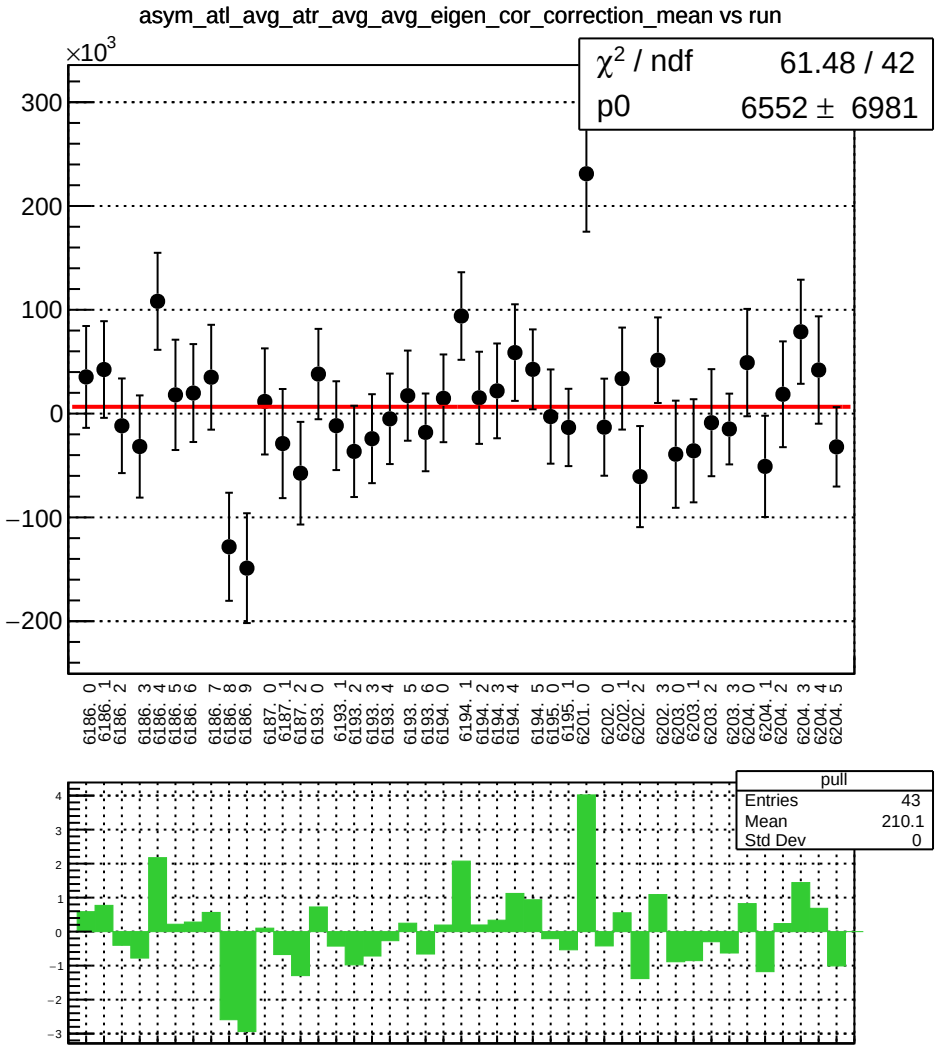
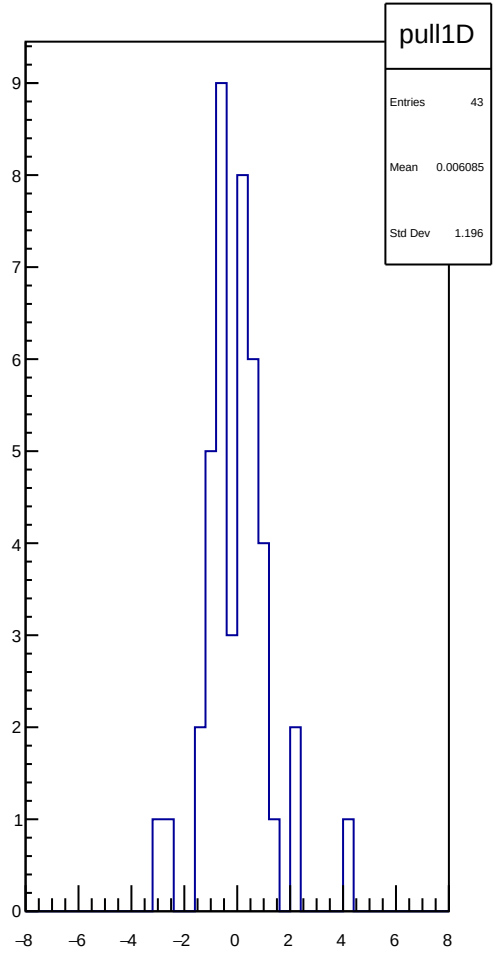
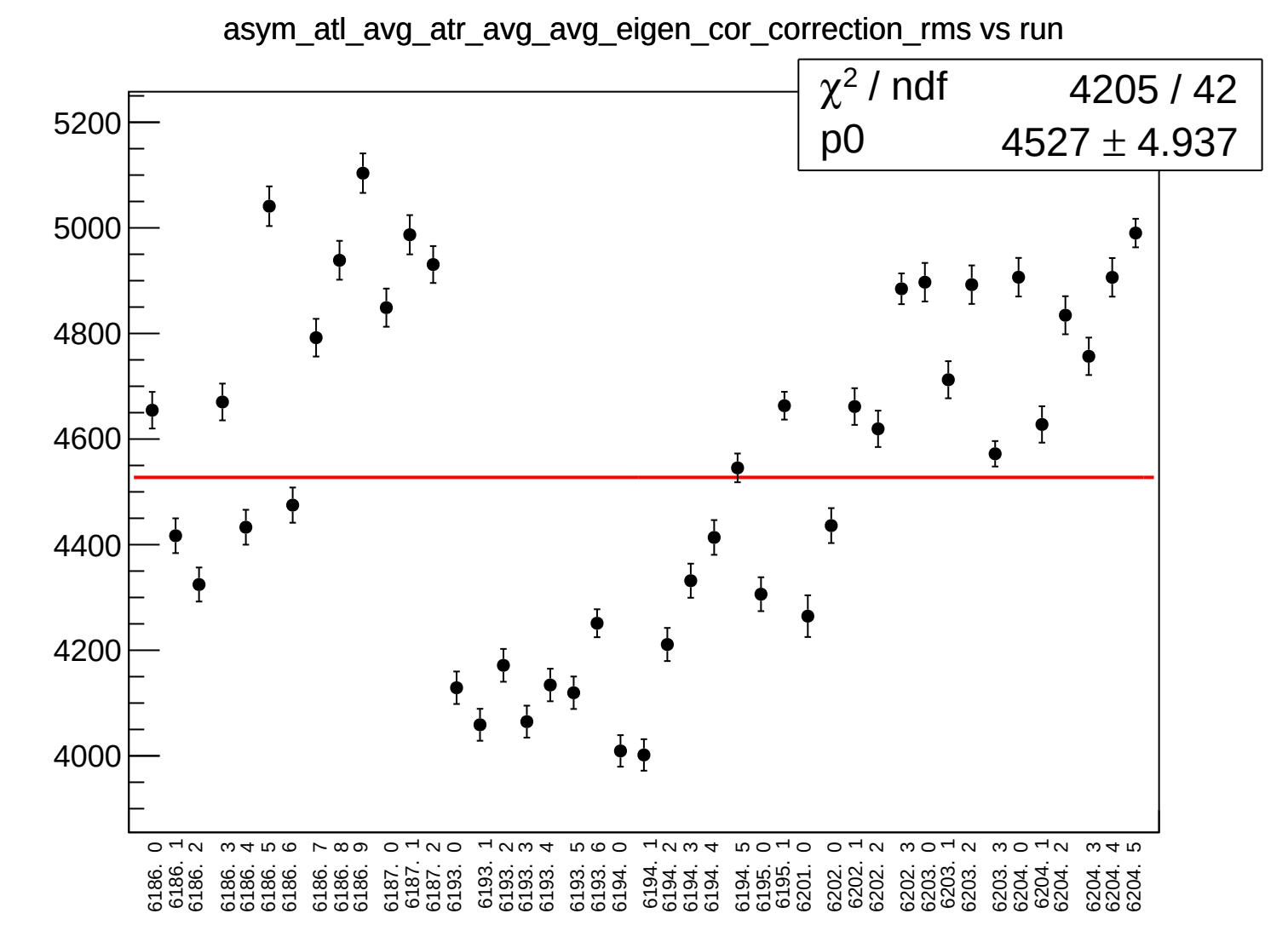
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 61.48 / 42
p0 6552 ± 6981
300
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 210.1
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.006085
Std Dev 1.196
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_correction_rms vs run
χ² / ndf 4205 / 42
p0 4527 ± 4.937
5200
5000
4800
4600
4400
4200
4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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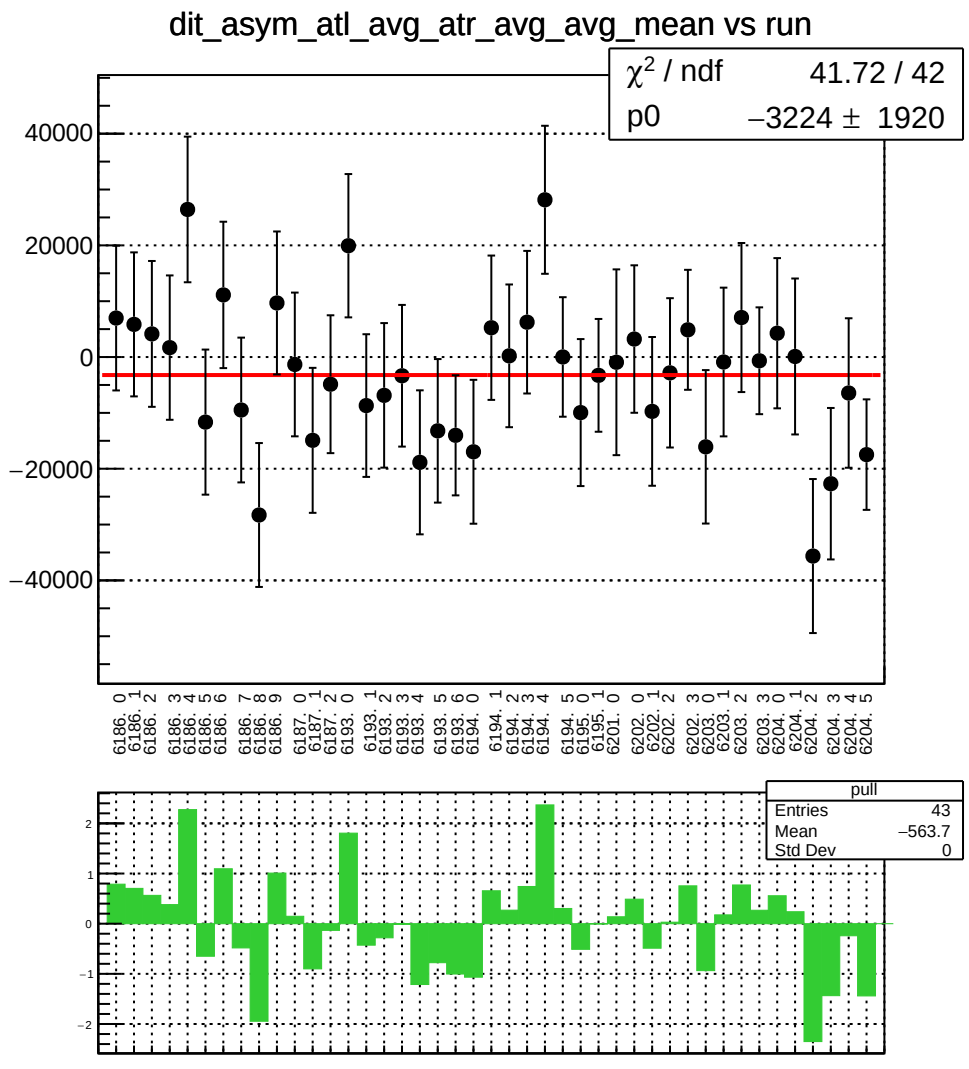
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 41.72 / 42
p0 −3224 ± 1920
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
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6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
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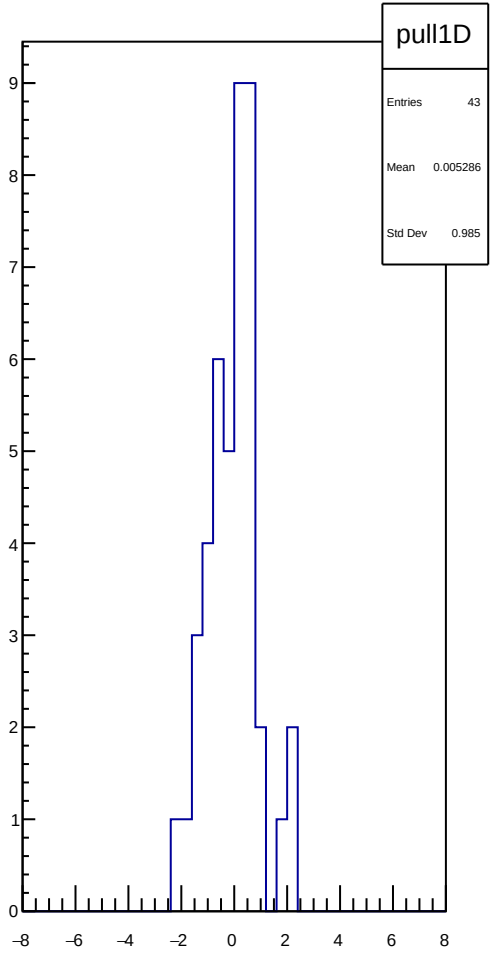
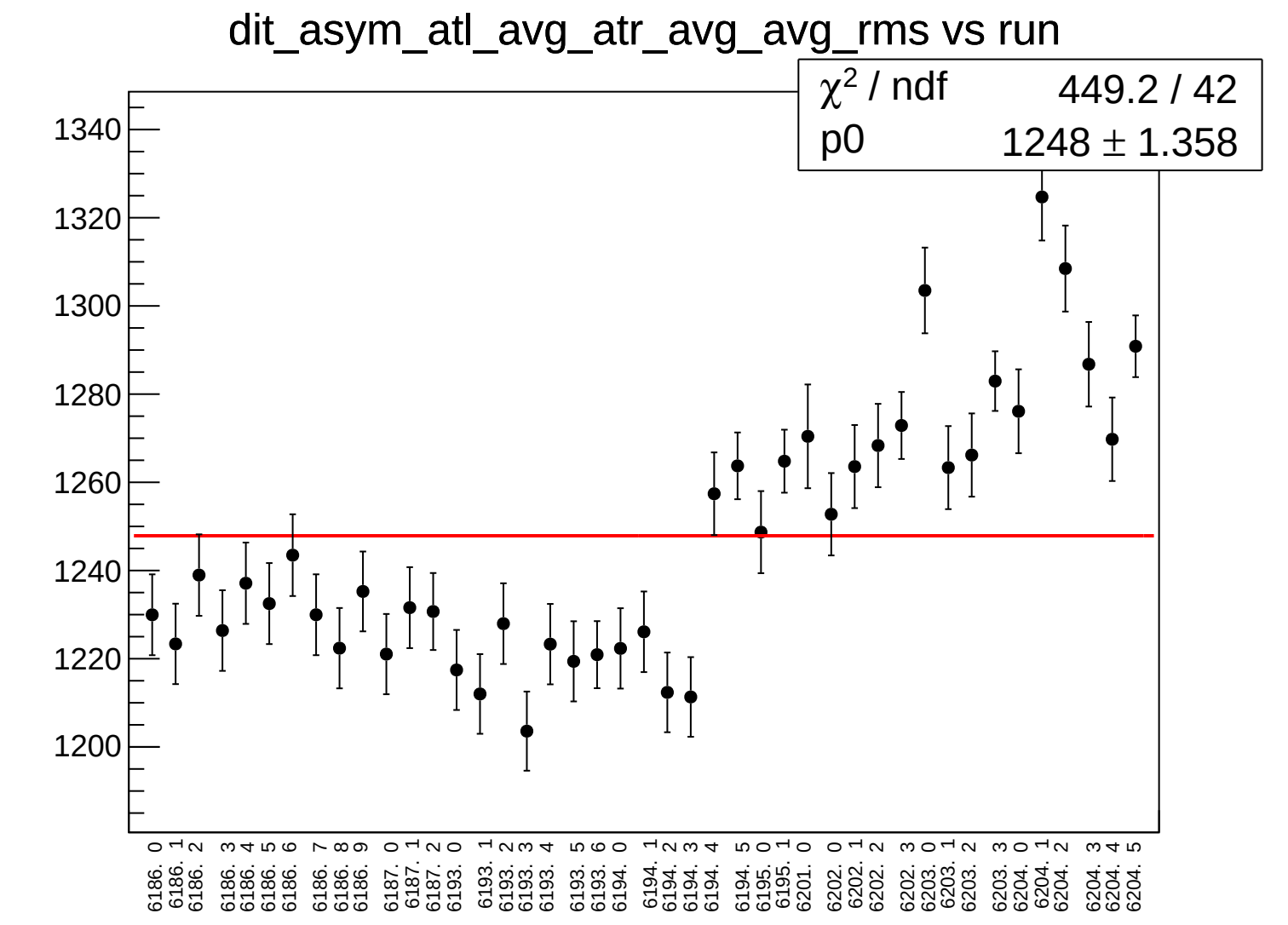
6204. 4
6204. 5
pull
Entries 43
Mean −563.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.005286
Std Dev 0.985
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 449.2 / 42
p0 1248 ± 1.358
1340
1320
1300
1280
1260
1240
1220
1200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
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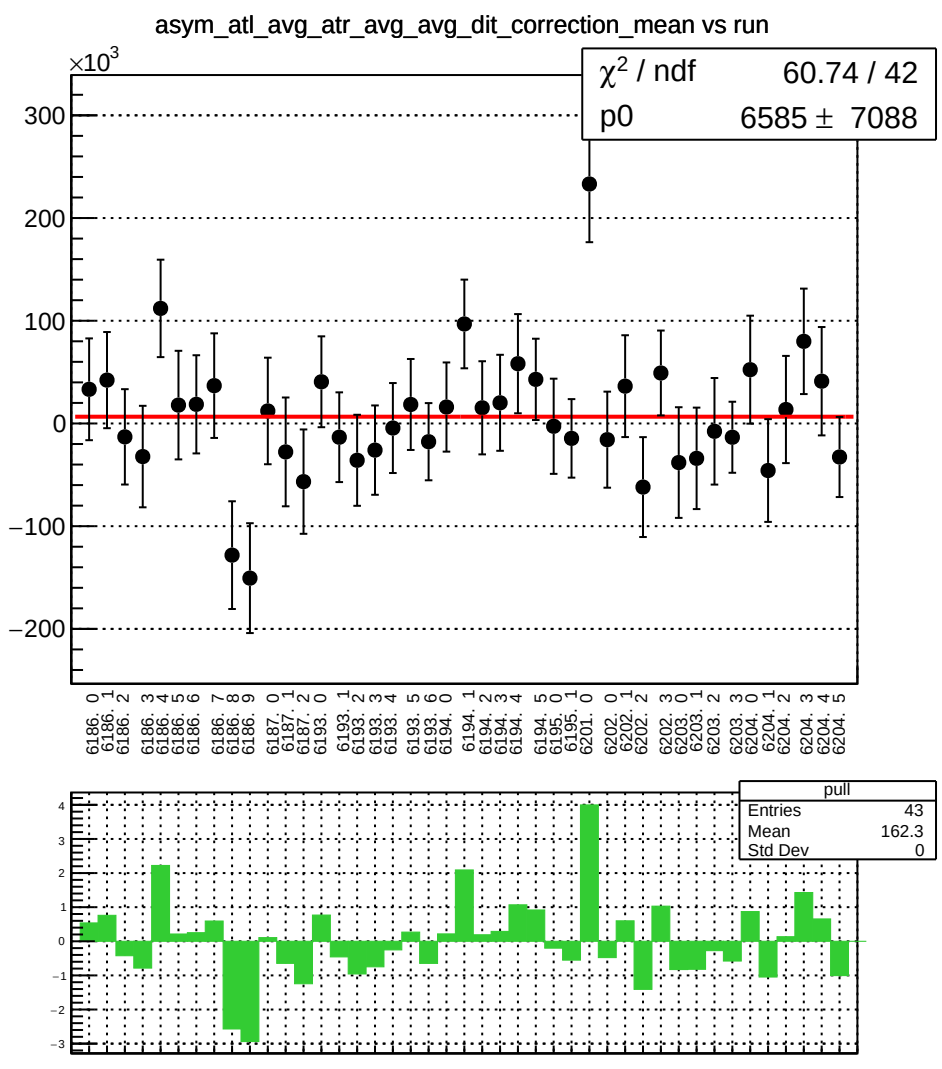
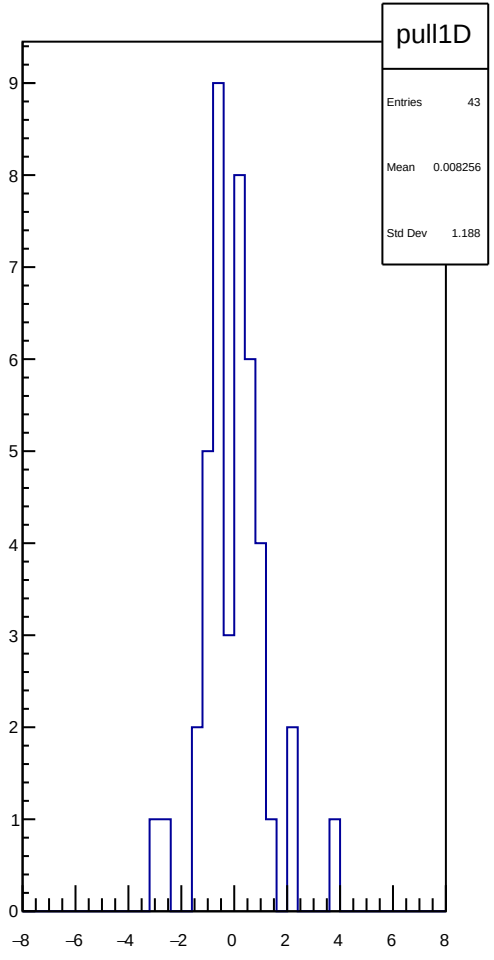
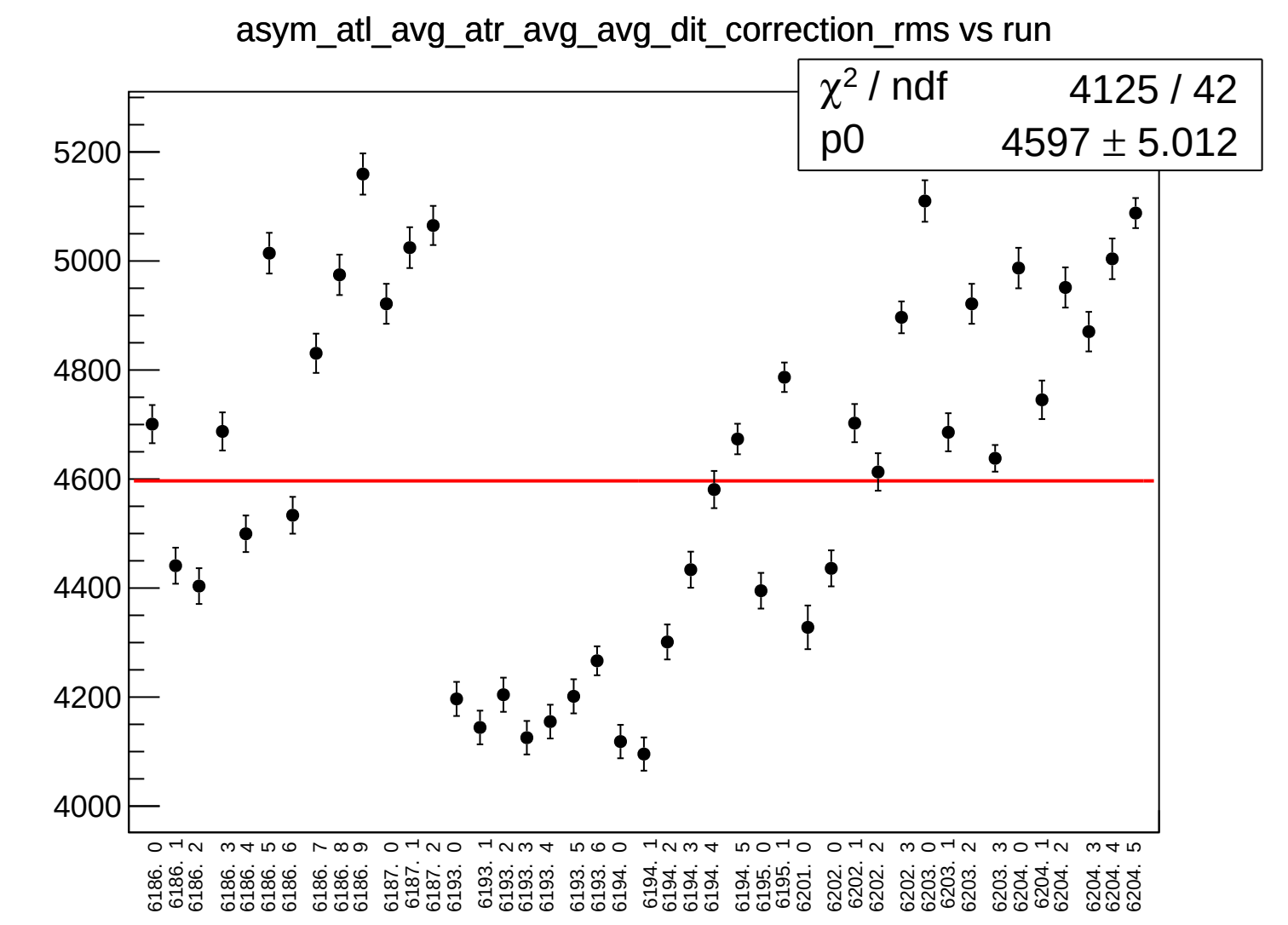
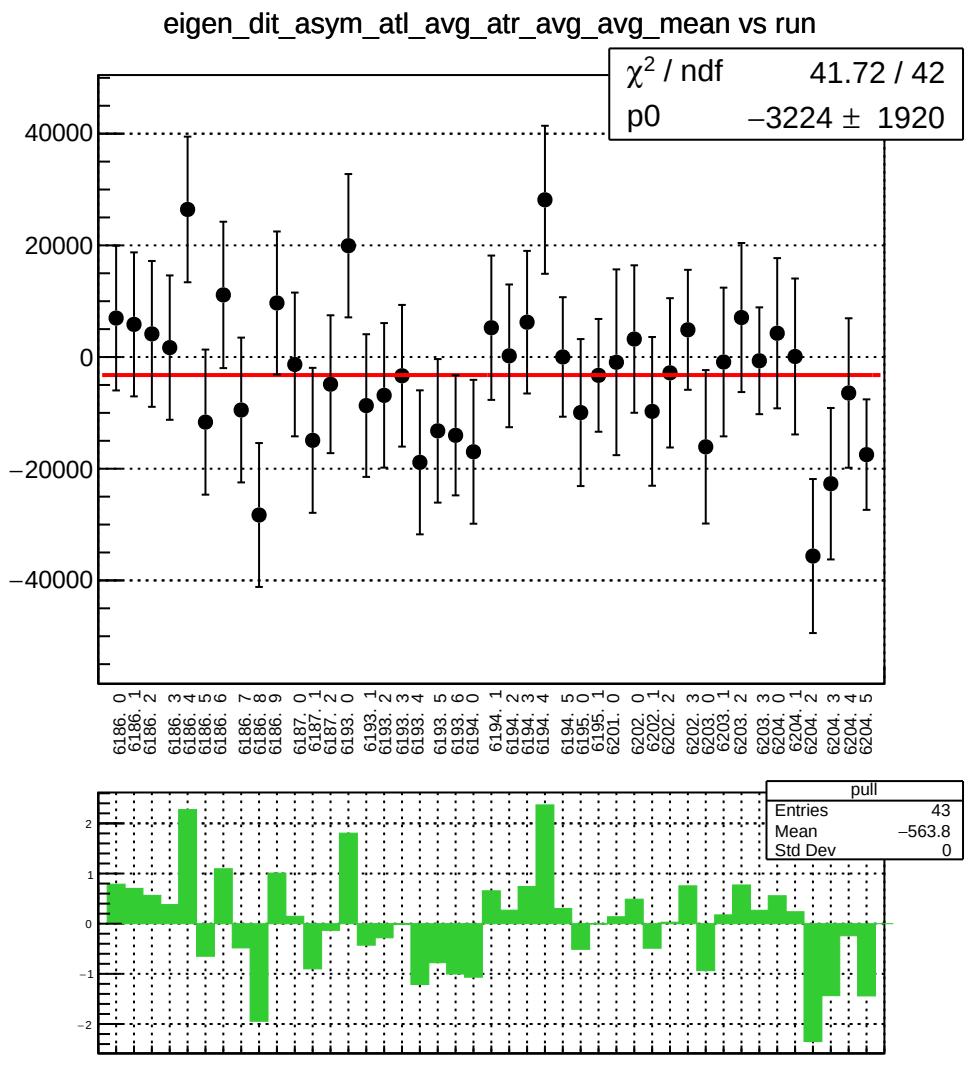
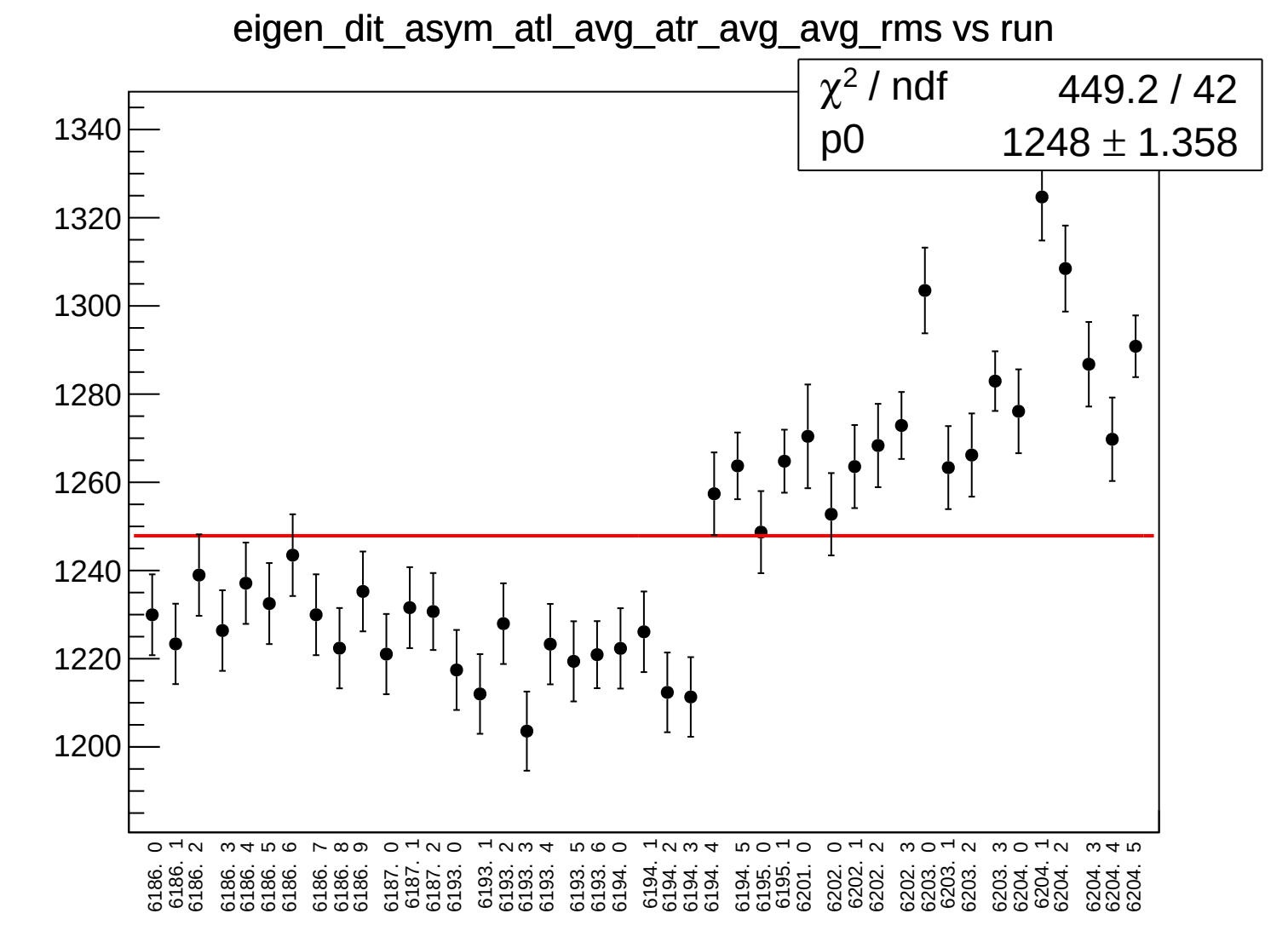
6204. 2
6204. 3
6204. 4
6204. 5

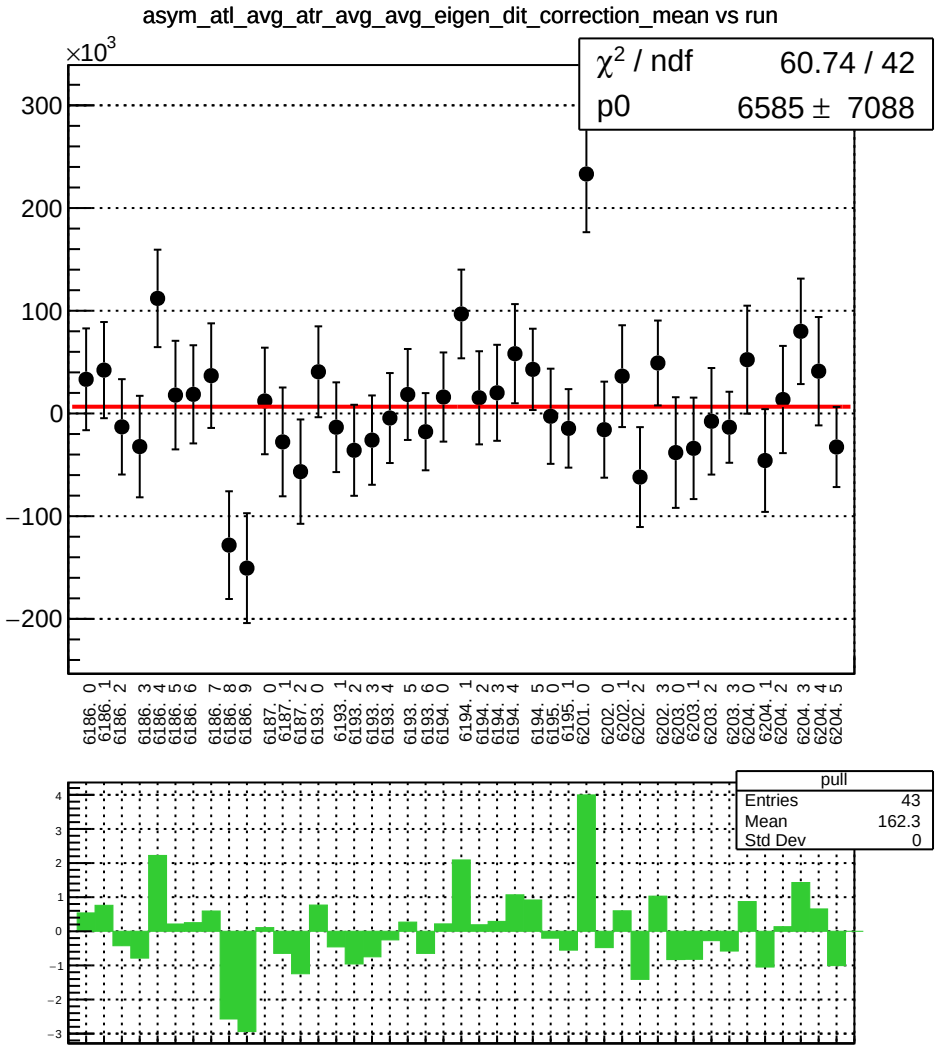

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 60.74 / 42
p0 6585 ± 7088
300
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 162.3
Std Dev 0
4
3
2
1
0
−1
−2
−3

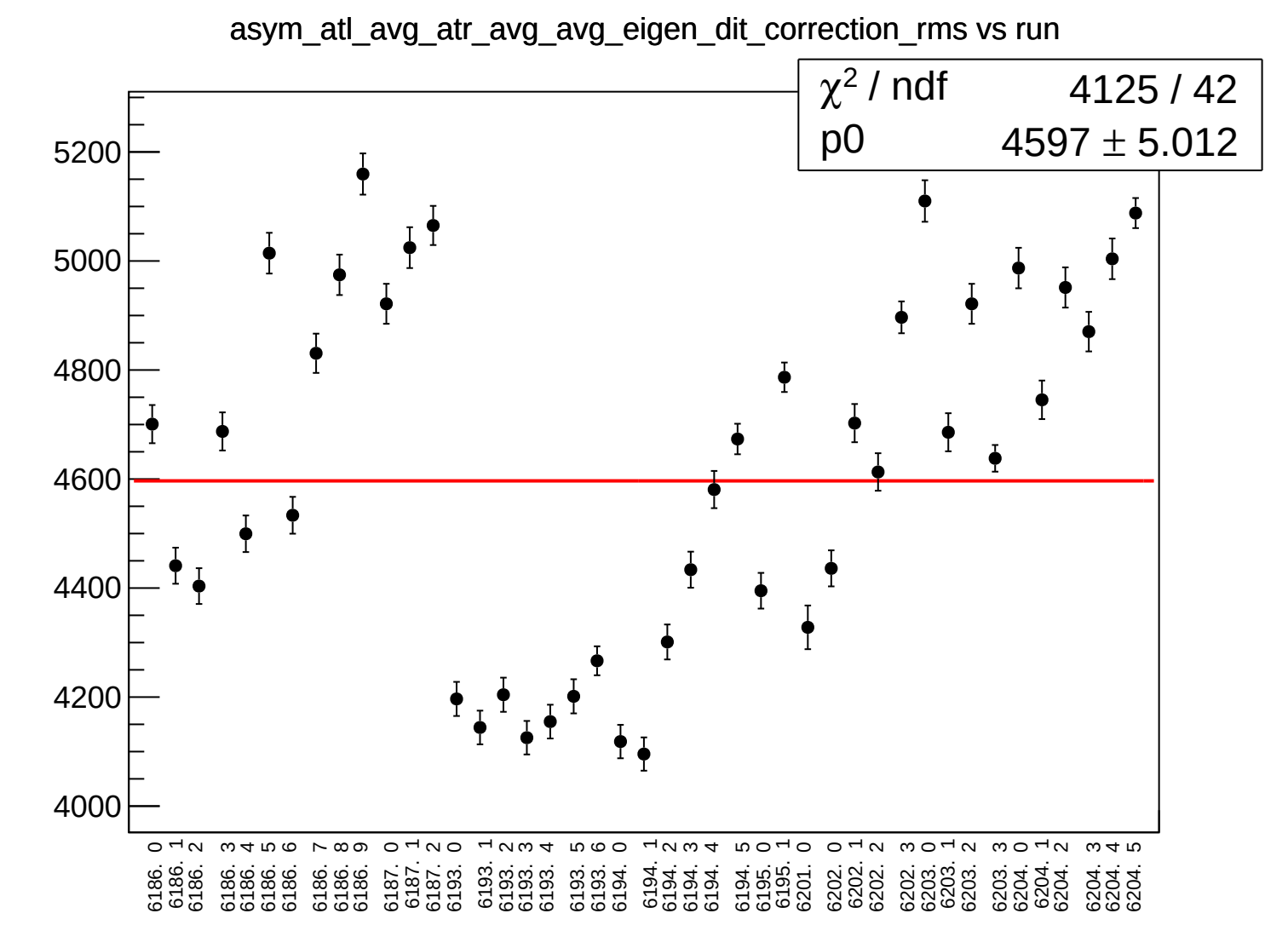

pull1D
Entries 43
Mean 0.008256
Std Dev 1.188
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

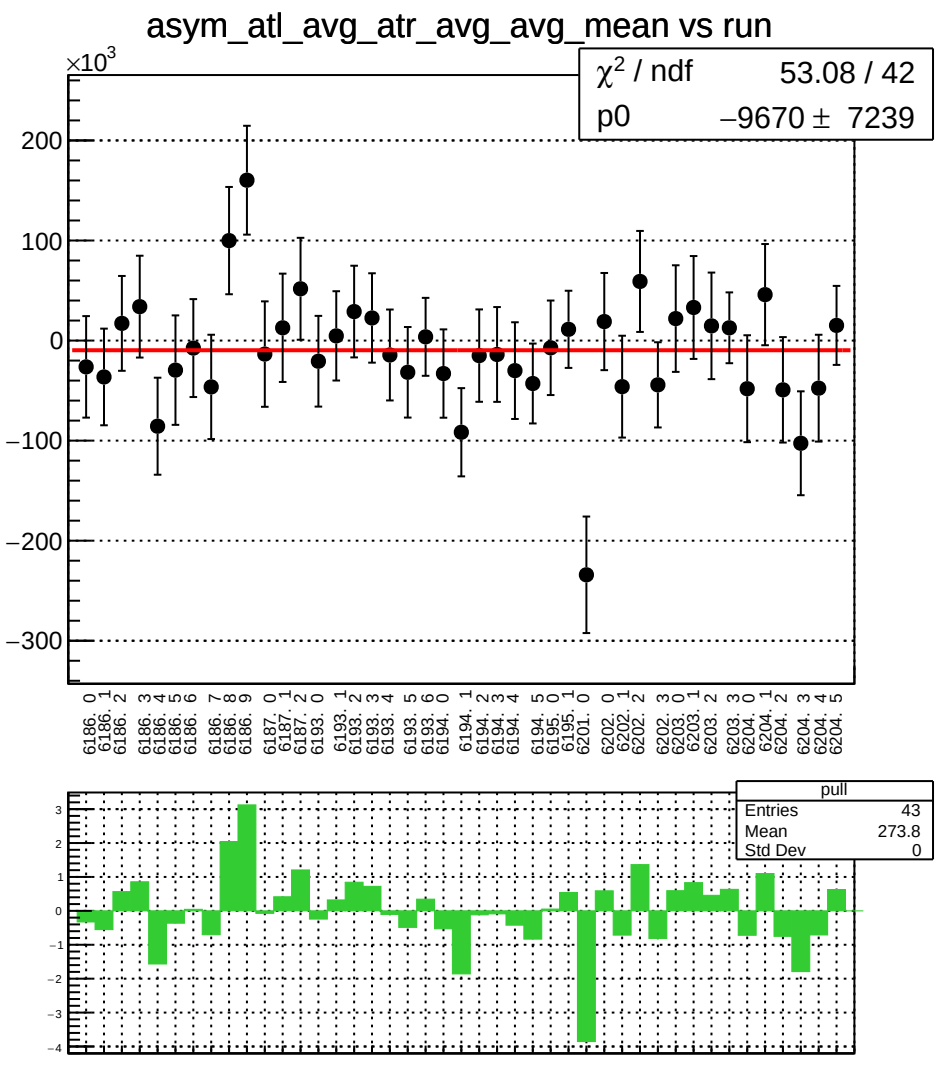

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 4125 / 42
p0 4597 ± 5.012
5200
5000
4800
4600
4400
4200
4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

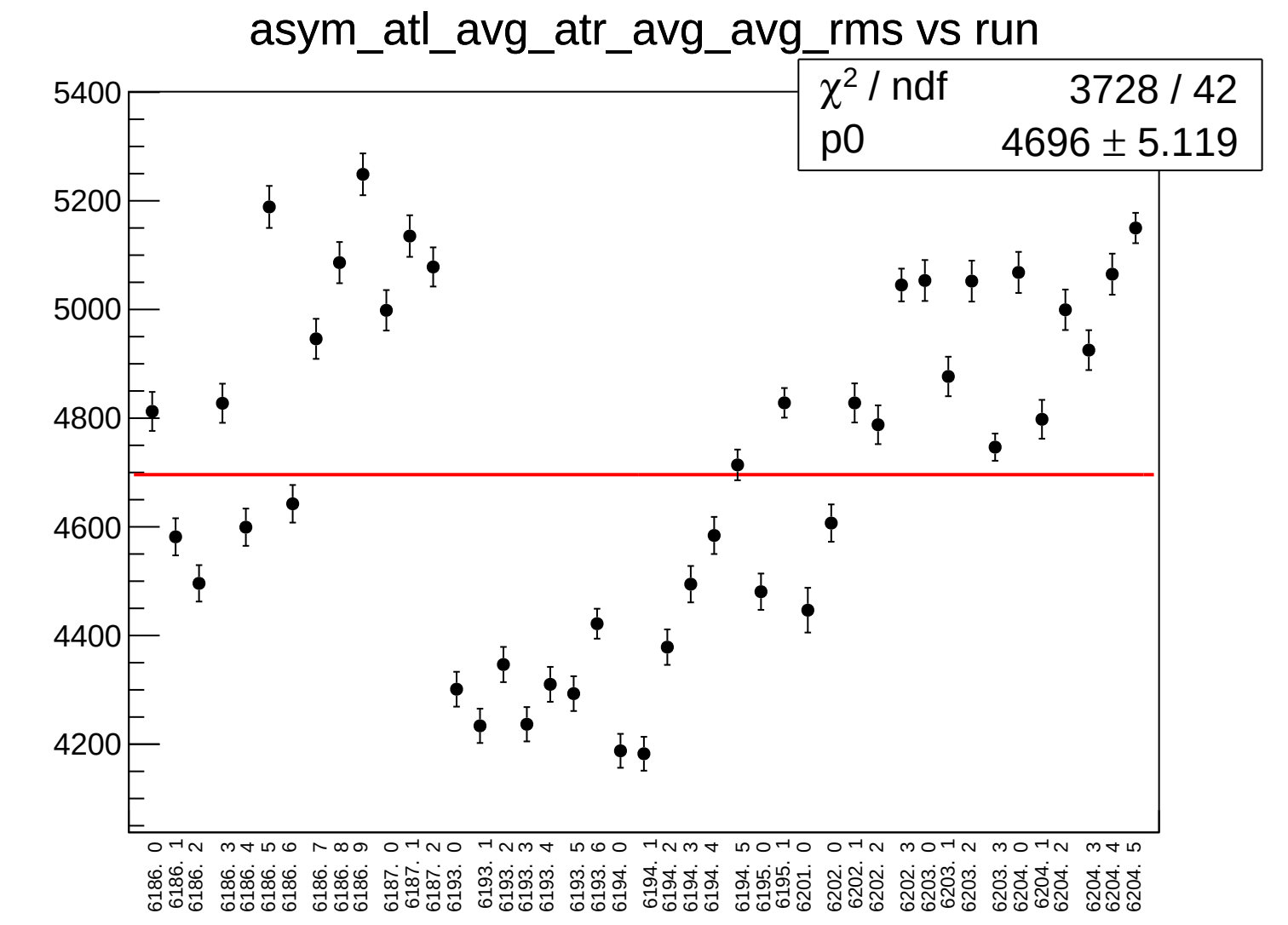

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 41.72 / 42
p0 −3224 ± 1920
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −563.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.005286
Std Dev 0.985
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

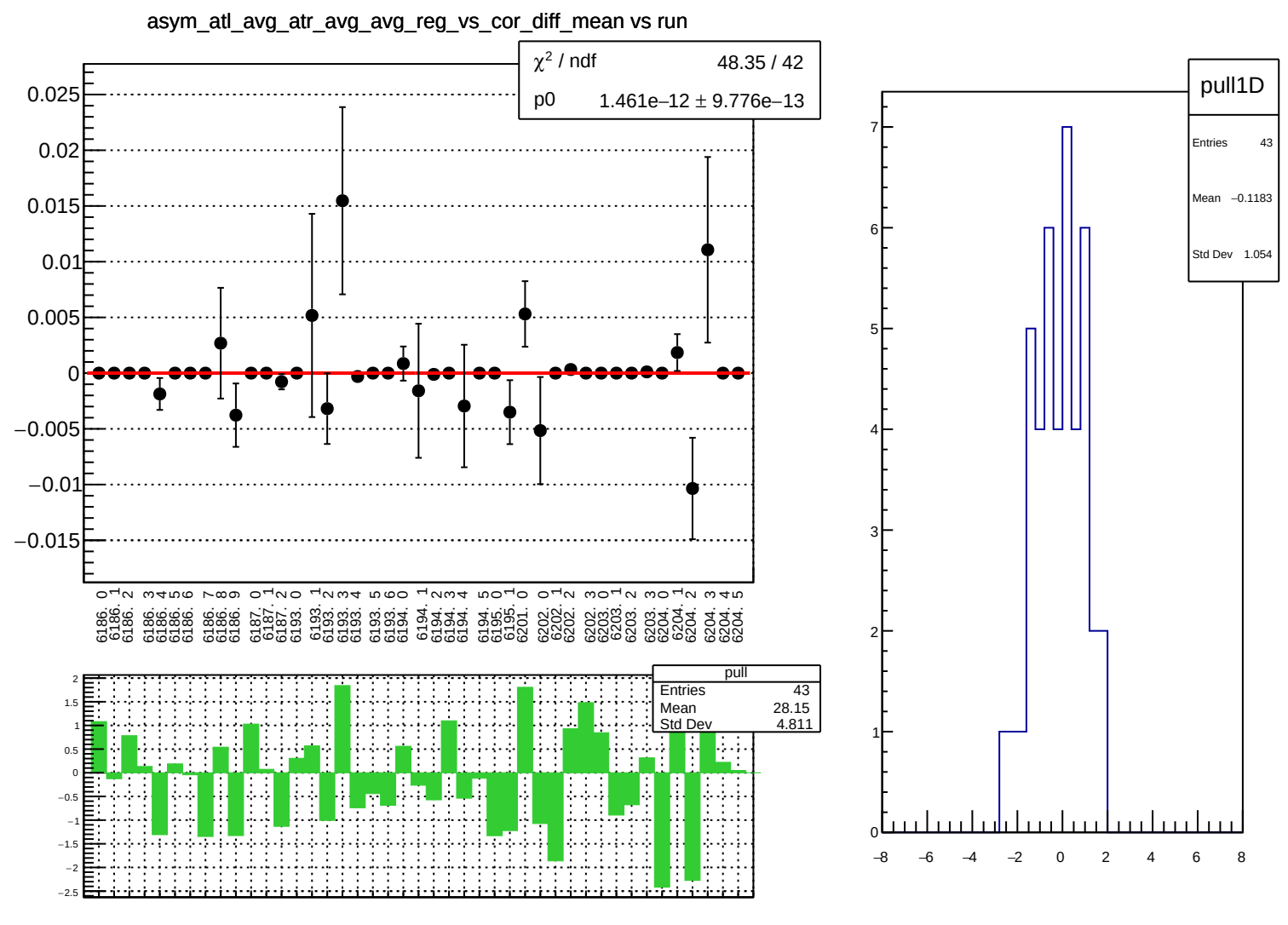

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 449.2 / 42
p0 1248 ± 1.358
1340
1320
1300
1280
1260
1240
1220
1200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

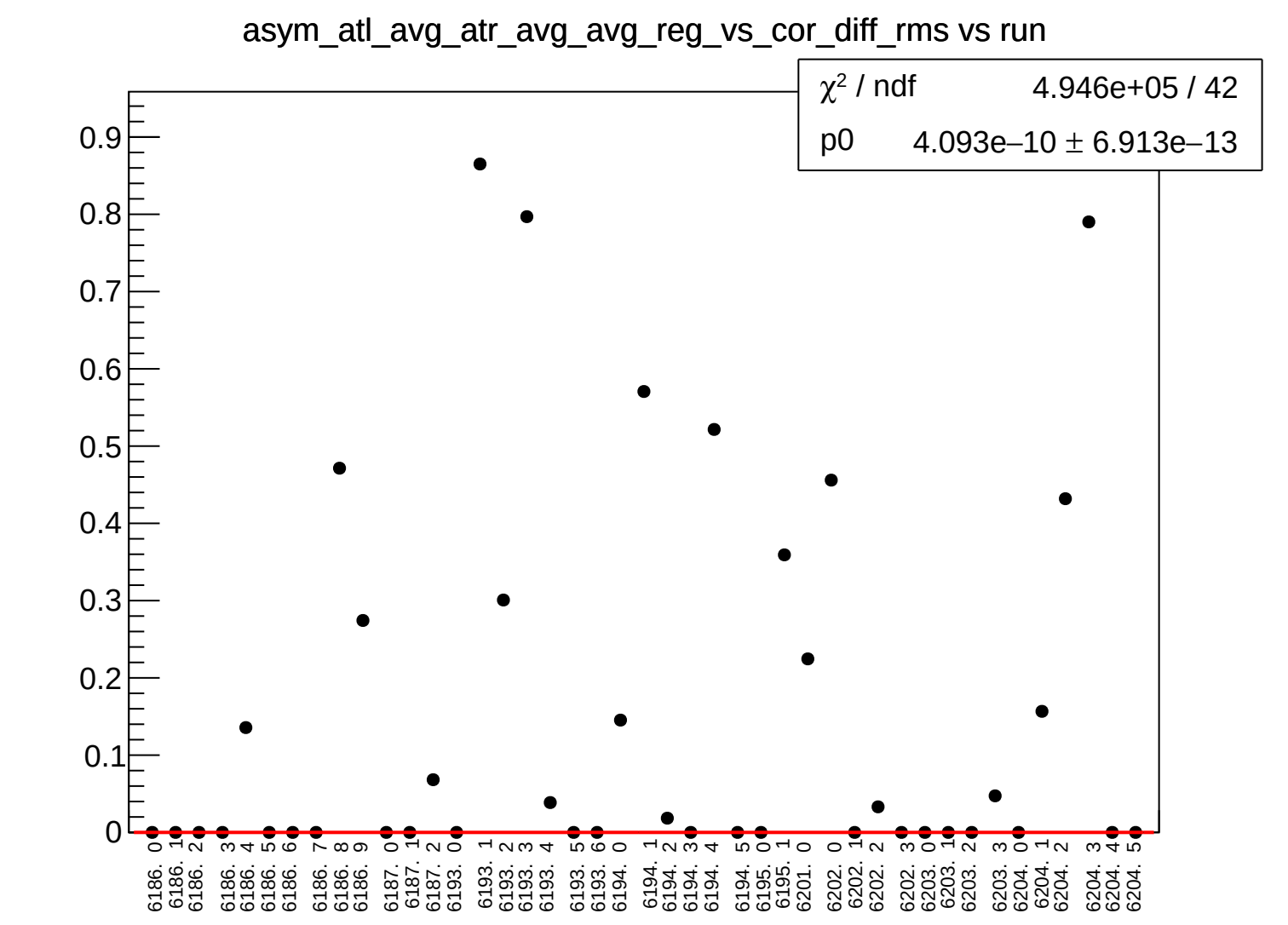

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 60.74 / 42
p0 6585 ± 7088
300
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 162.3
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.008256
Std Dev 1.188
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

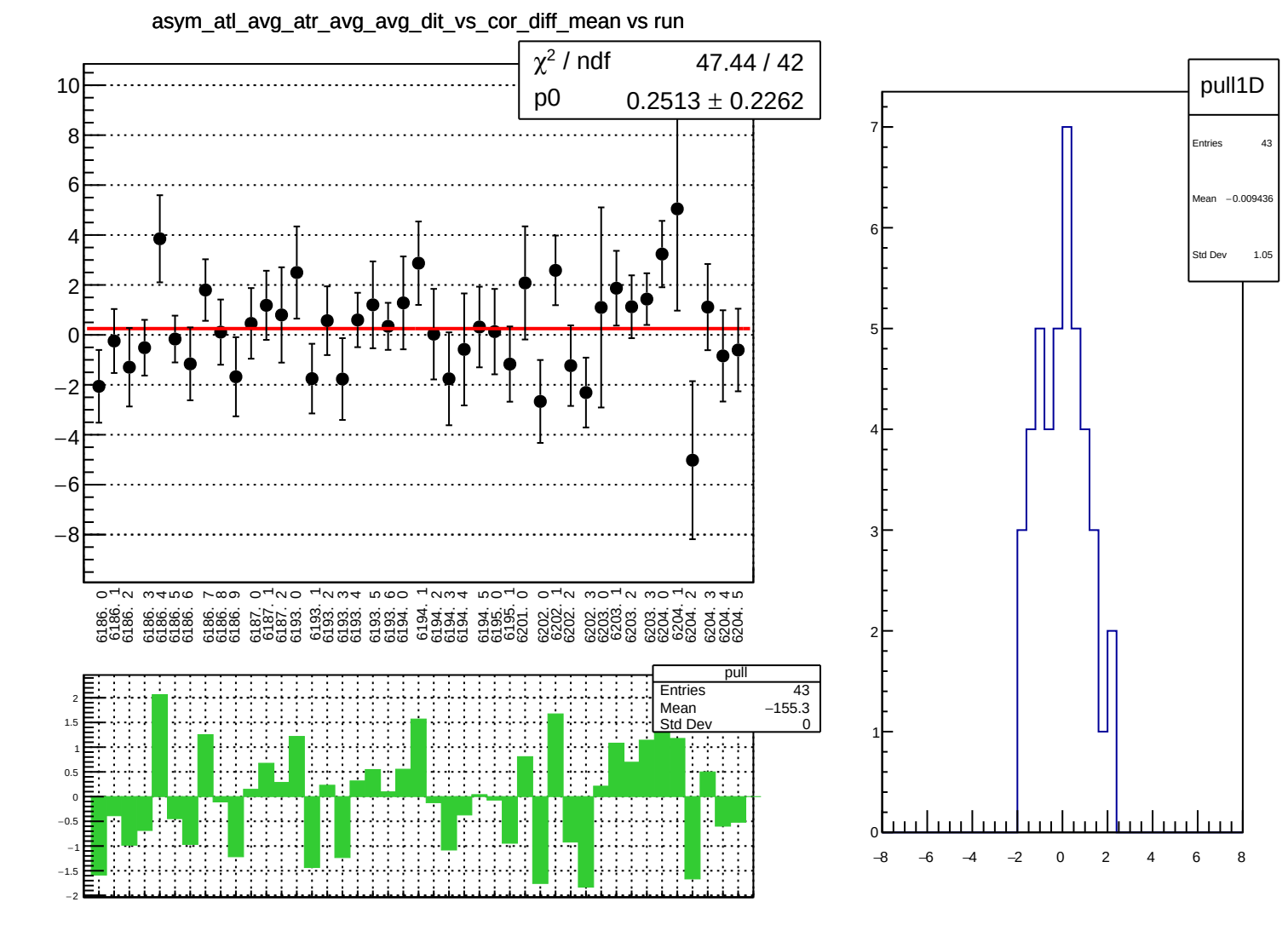

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4125 / 42
p0 4597 ± 5.012
5200
5000
4800
4600
4400
4200
4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

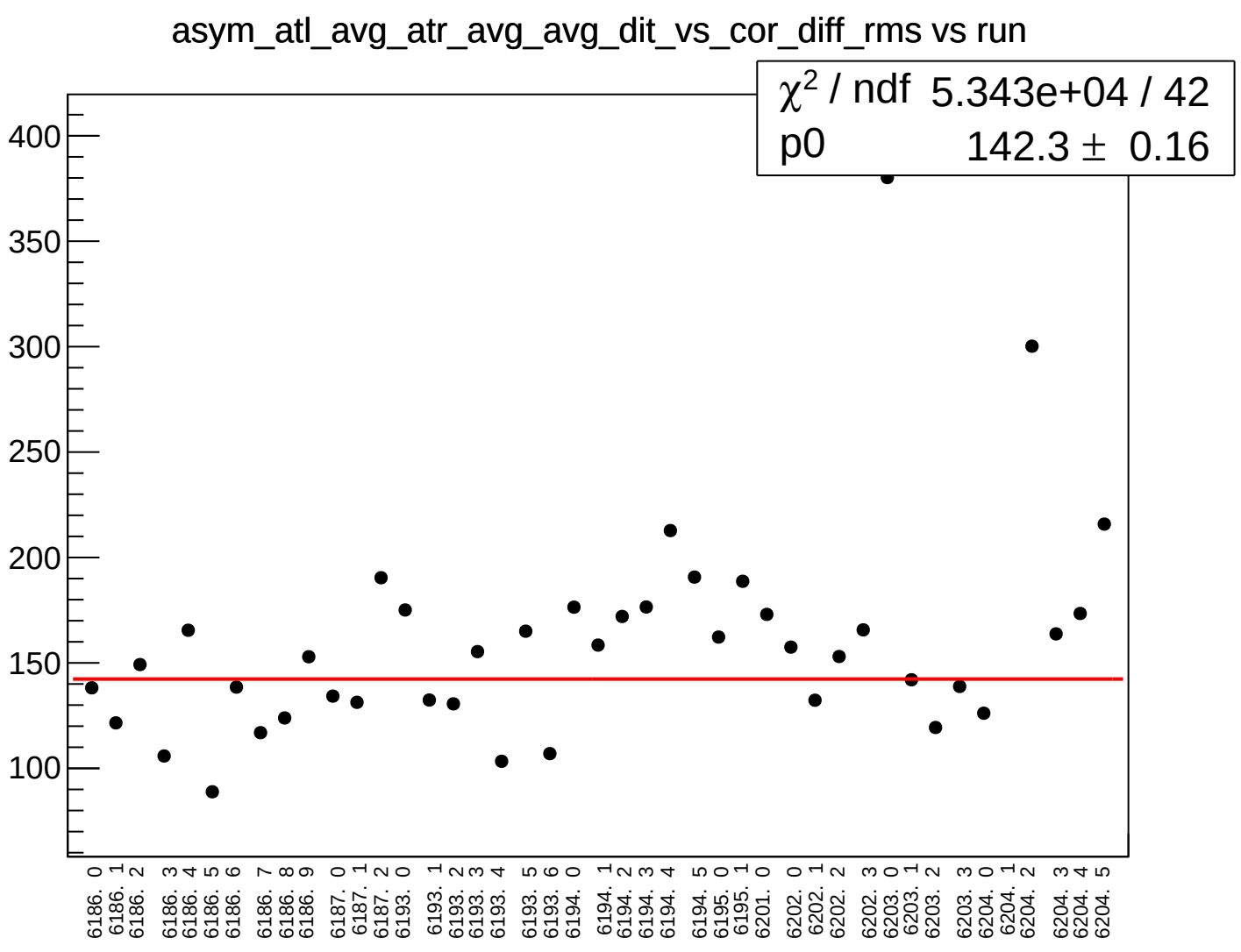

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 53.08 / 42
p0 −9670 ± 7239
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 273.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.007839
Std Dev 1.111
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

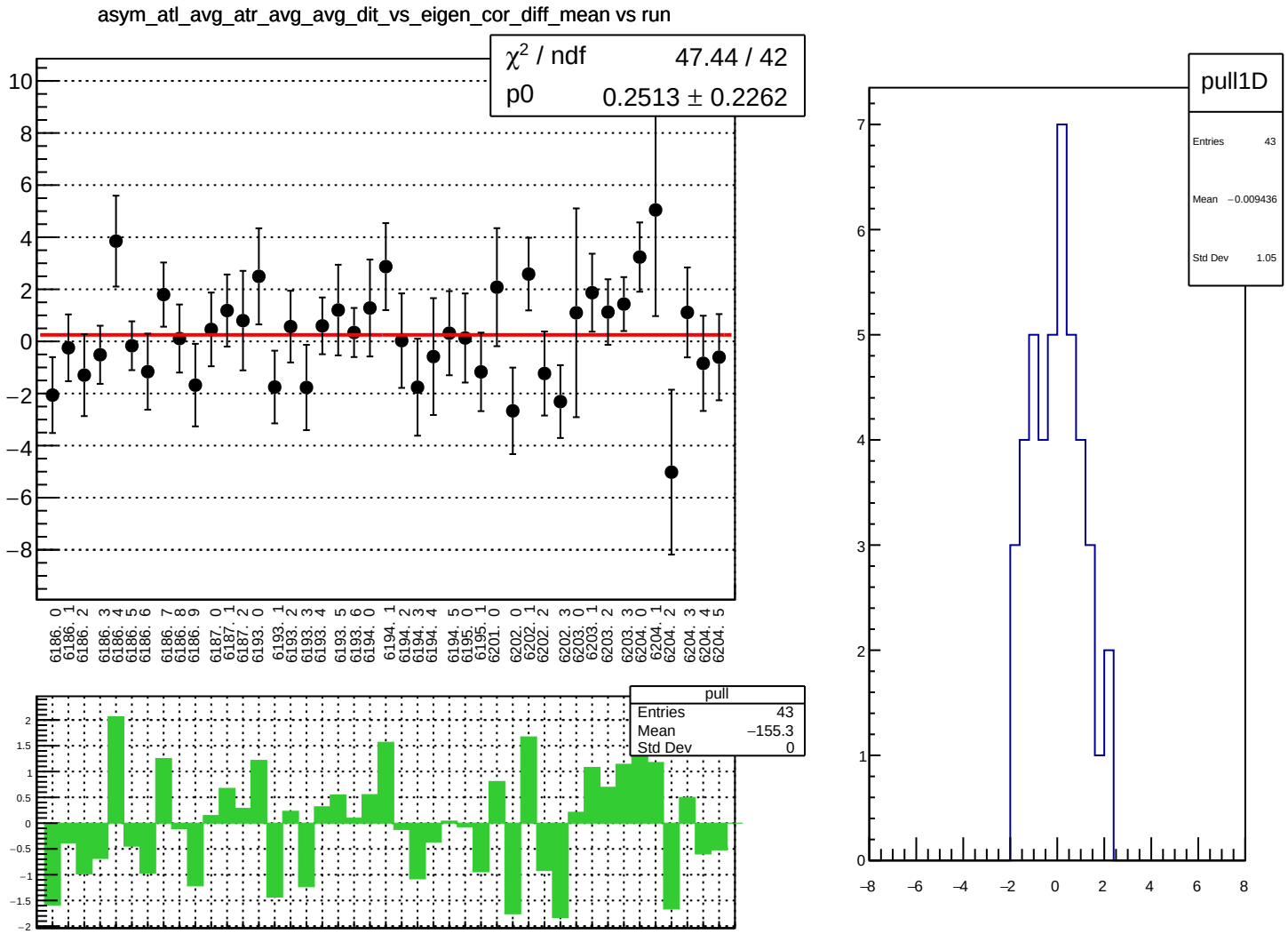

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3728 / 42
p0 4696 ± 5.119
5400
5200
5000
4800
4600
4400
4200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

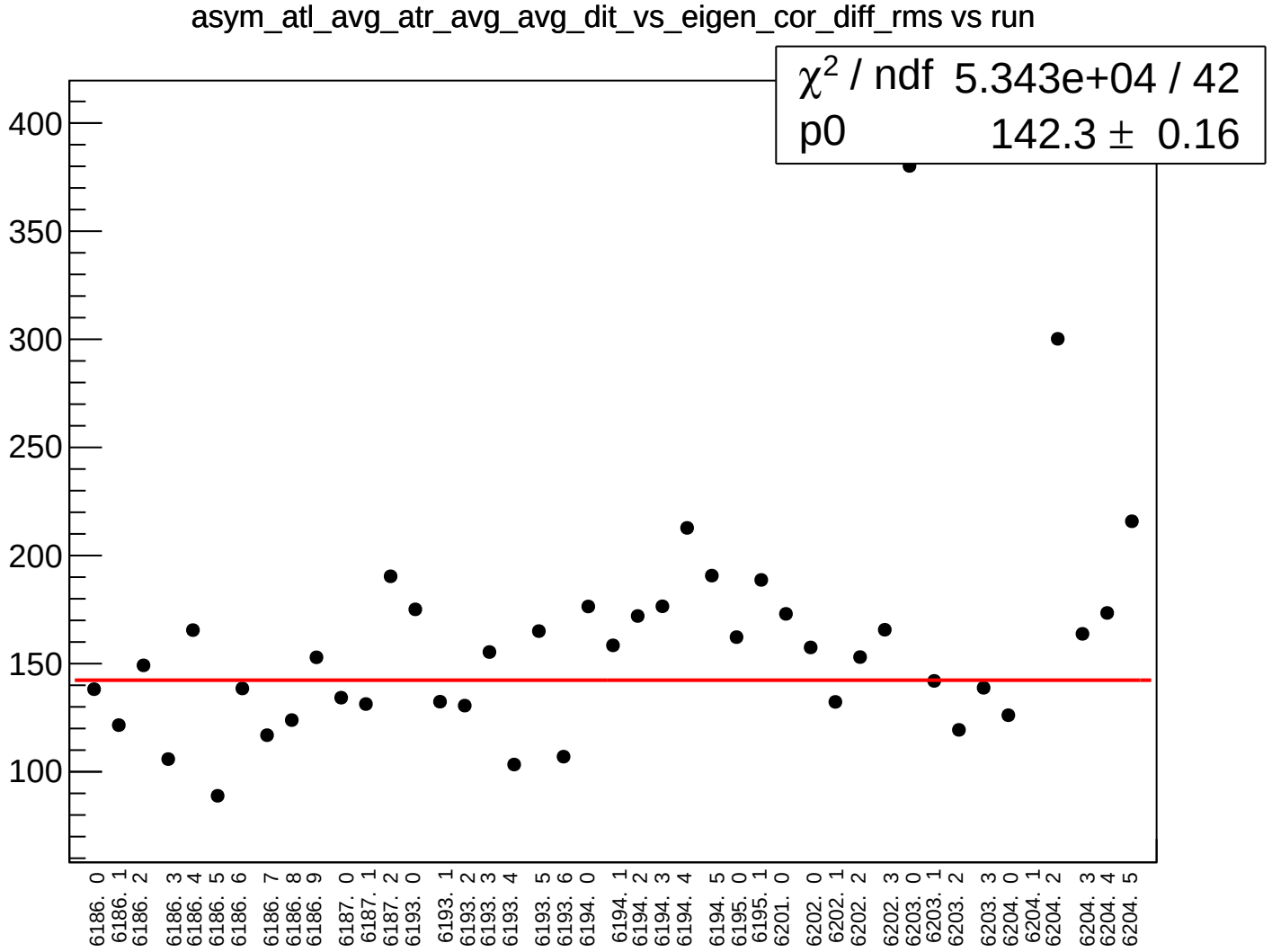

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 48.35 / 42
p0 1.461e−12 ± 9.776e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 28.15
Std Dev 4.811
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.1183
Std Dev 1.054
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

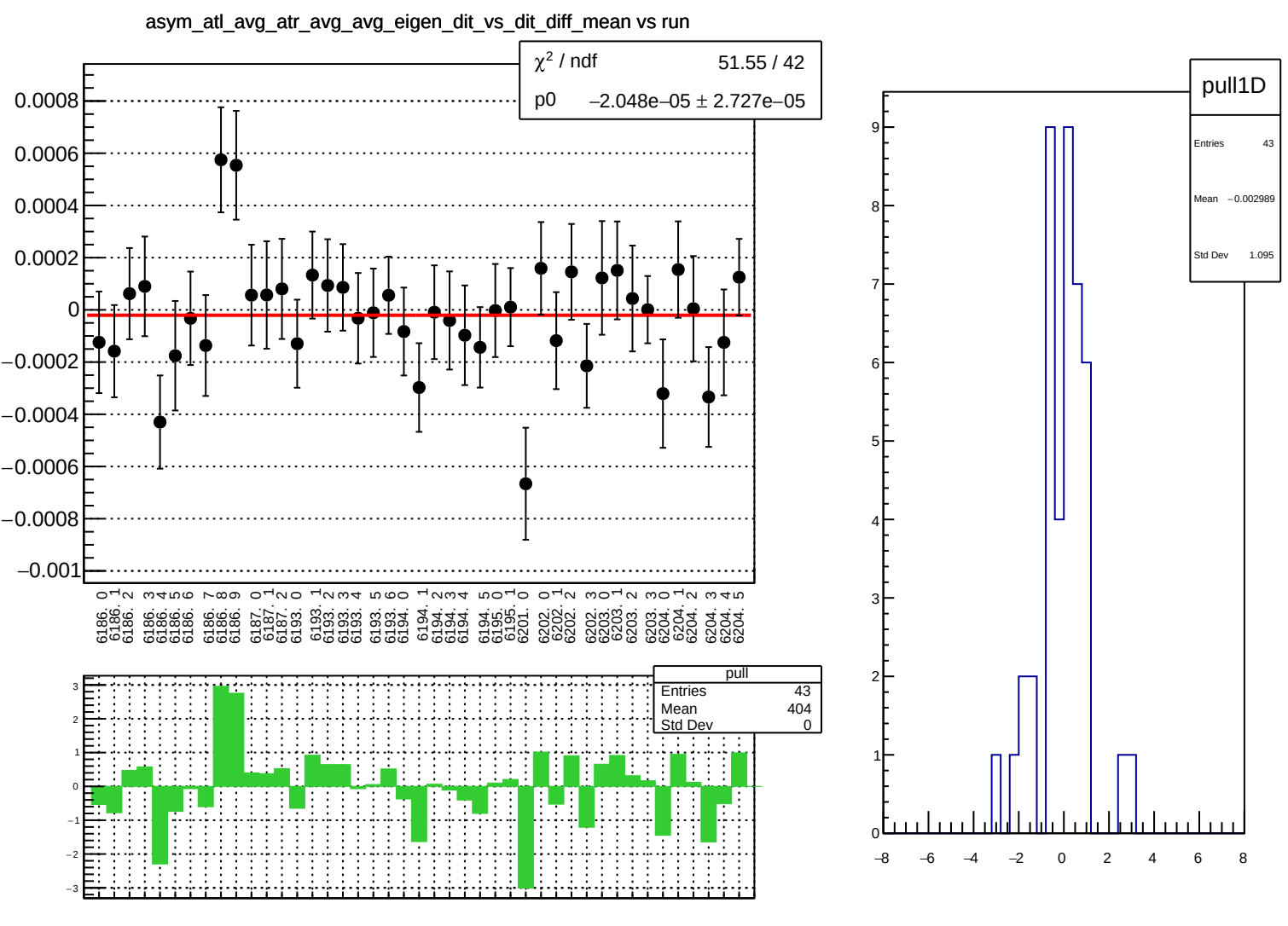

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.946e+05 / 42
p0 4.093e−10 ± 6.913e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

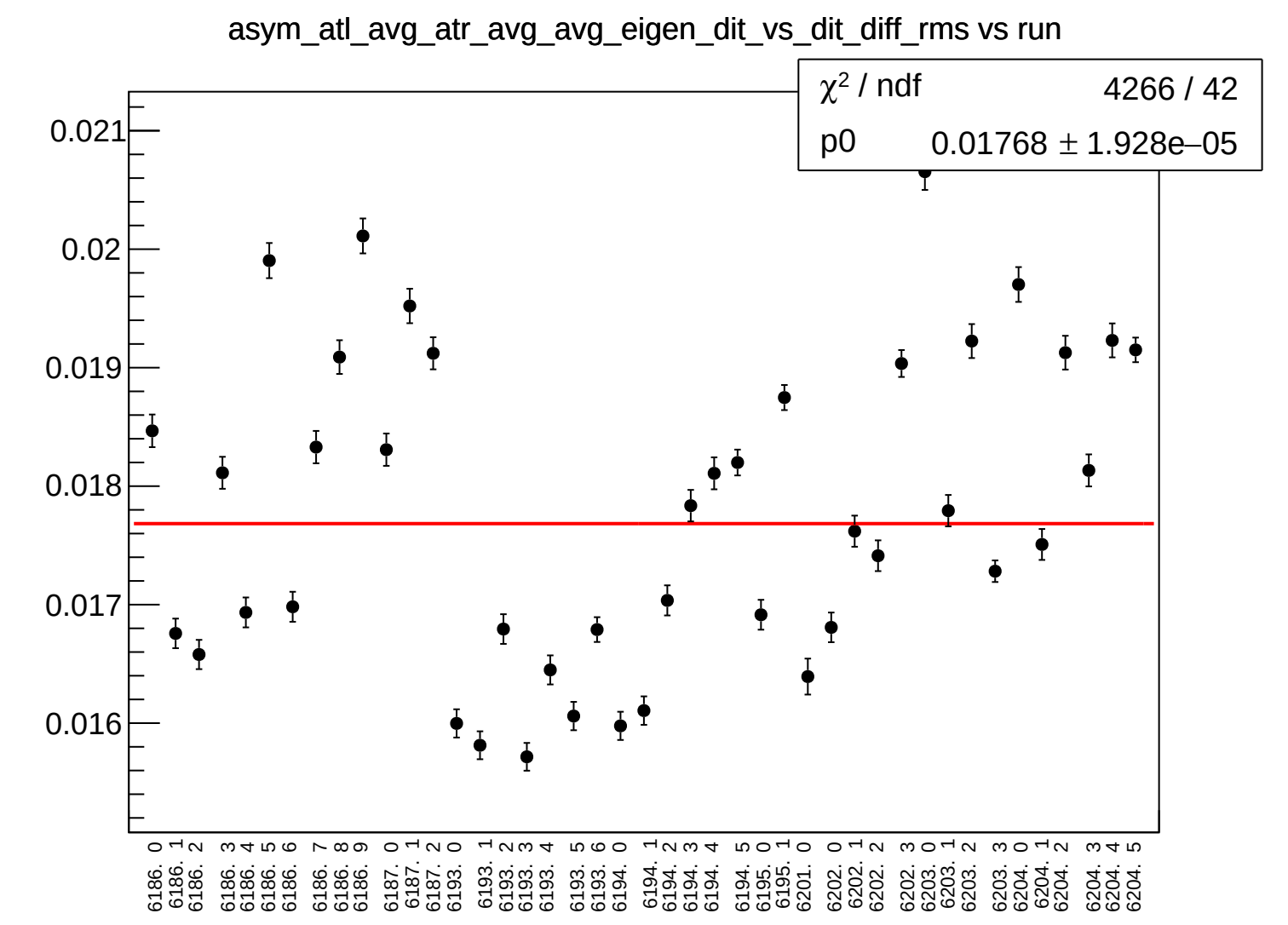

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 47.44 / 42
p0 0.2513 ± 0.2262
pull
Entries 43
Mean −155.3
Std Dev 0
pull1D
Entries 43
Mean −0.009436
Std Dev 1.05


asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.343e+04 / 42
p0 142.3 ± 0.16
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

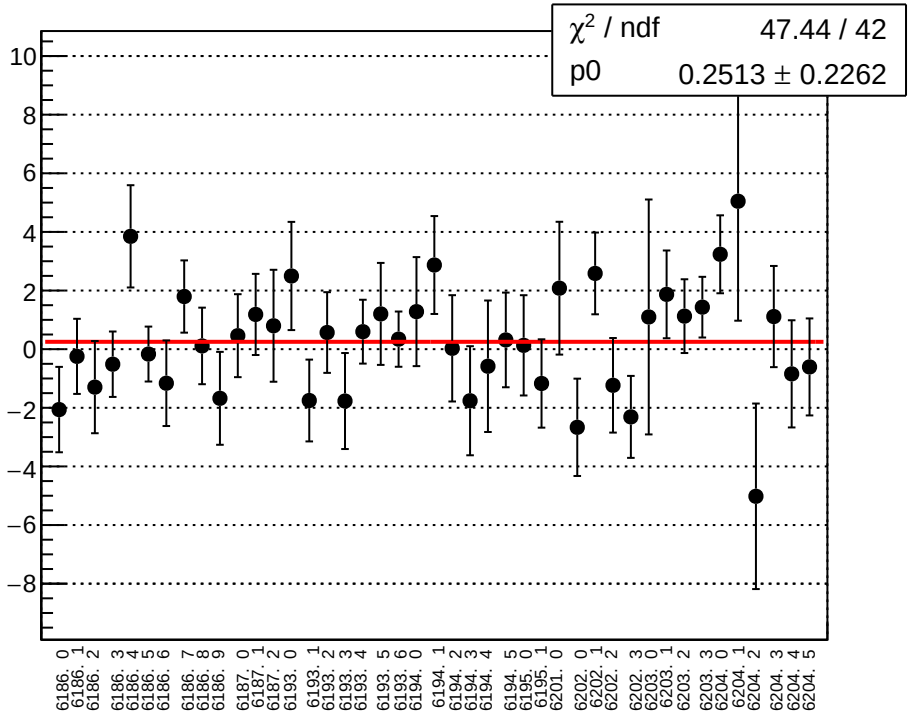

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.44 / 42
p0 0.2513 ± 0.2262
pull
Entries 43
Mean −155.3
Std Dev 0
pull1D
Entries 43
Mean −0.009436
Std Dev 1.05

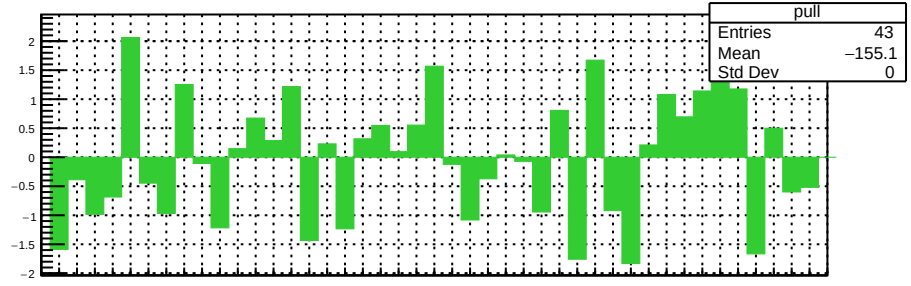

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.343e+04 / 42
p0 142.3 ± 0.16
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

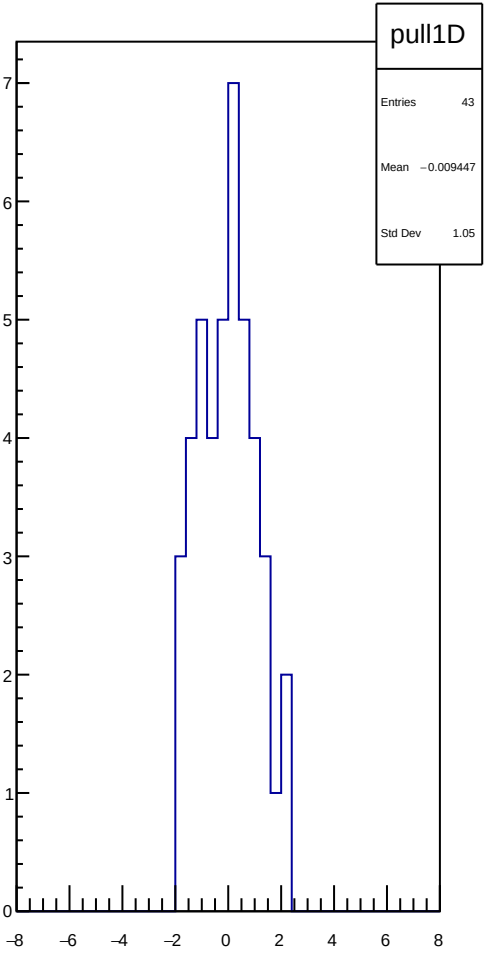

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 51.55 / 42
p0 −2.048e−05 ± 2.727e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 404
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.002989
Std Dev 1.095
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

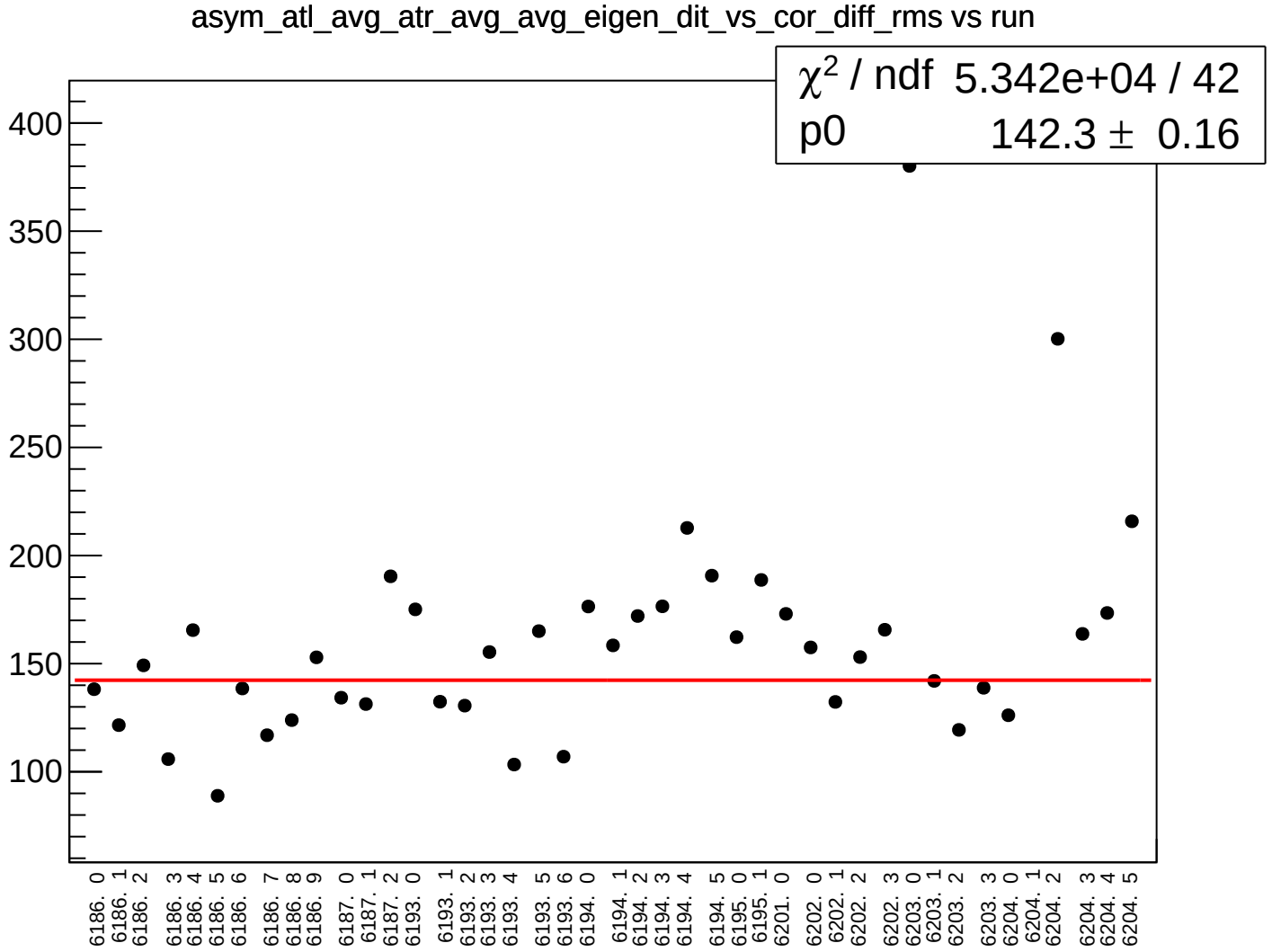

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4266 / 42
p0 0.01768 ± 1.928e–05
0.021
0.02
0.019
0.018
0.017
0.016
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

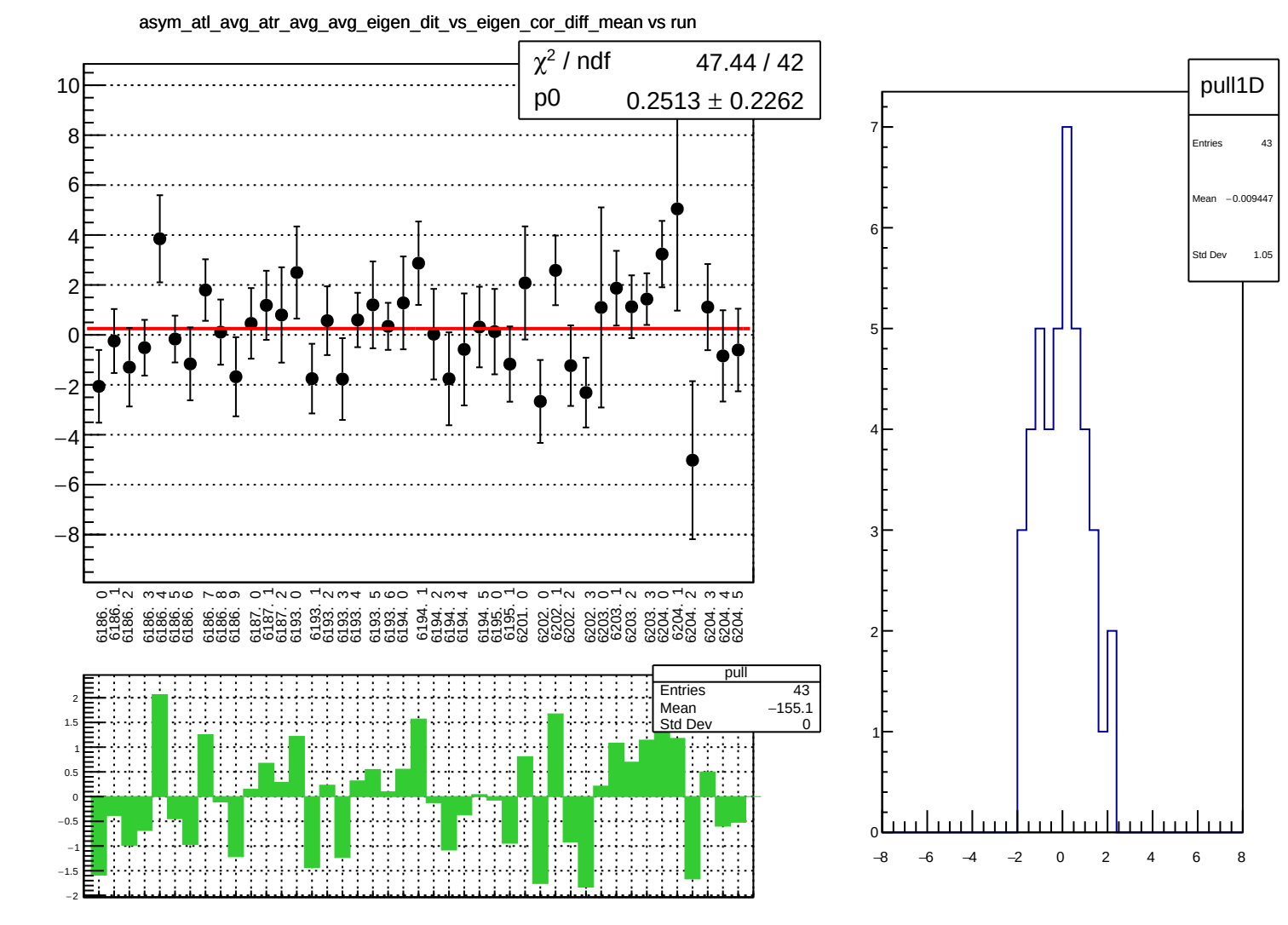
asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run

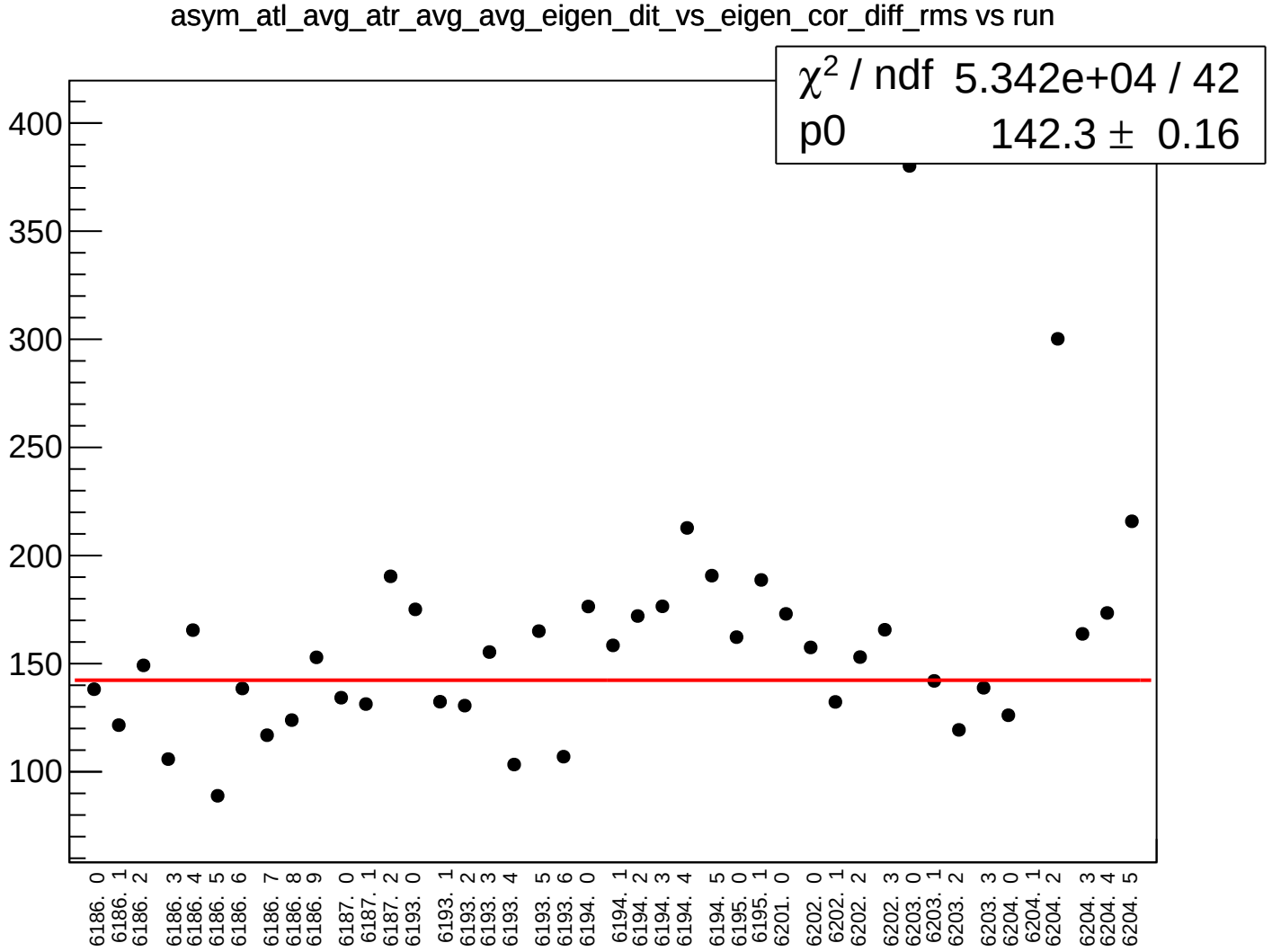


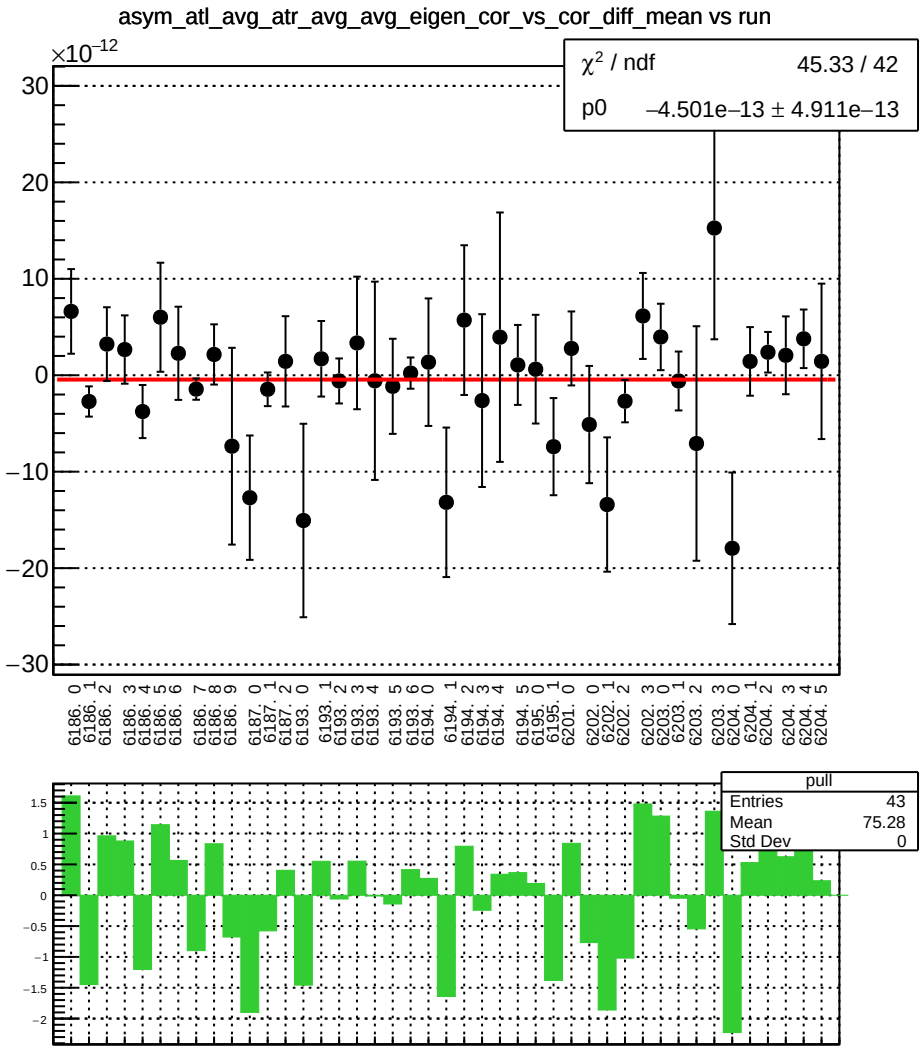


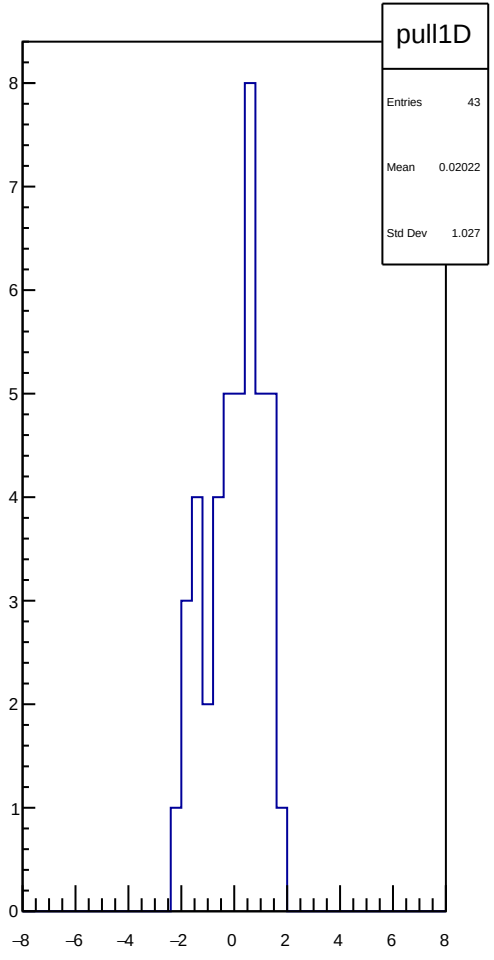


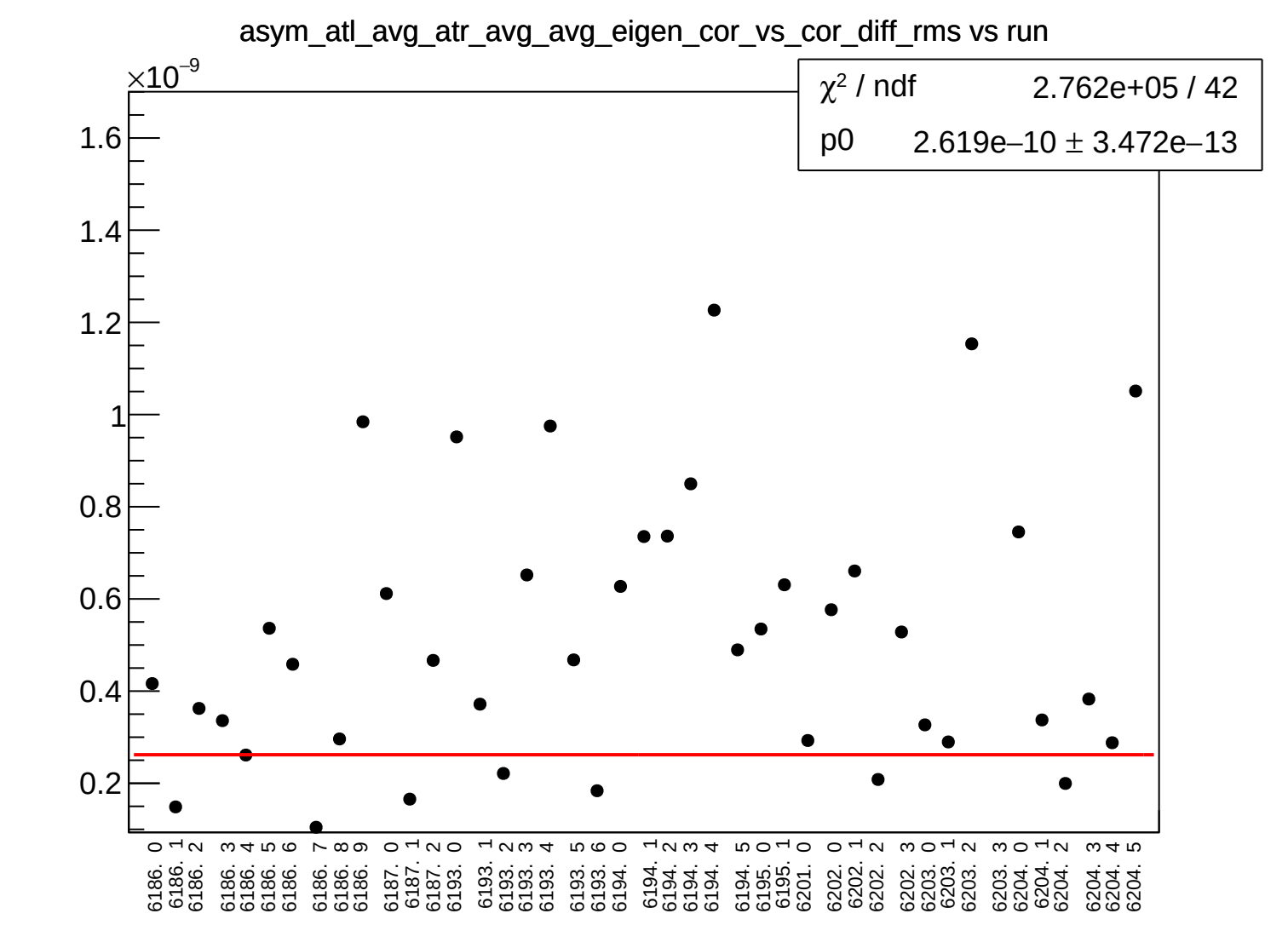

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.342e+04 / 42
p0 142.3 ± 0.16
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

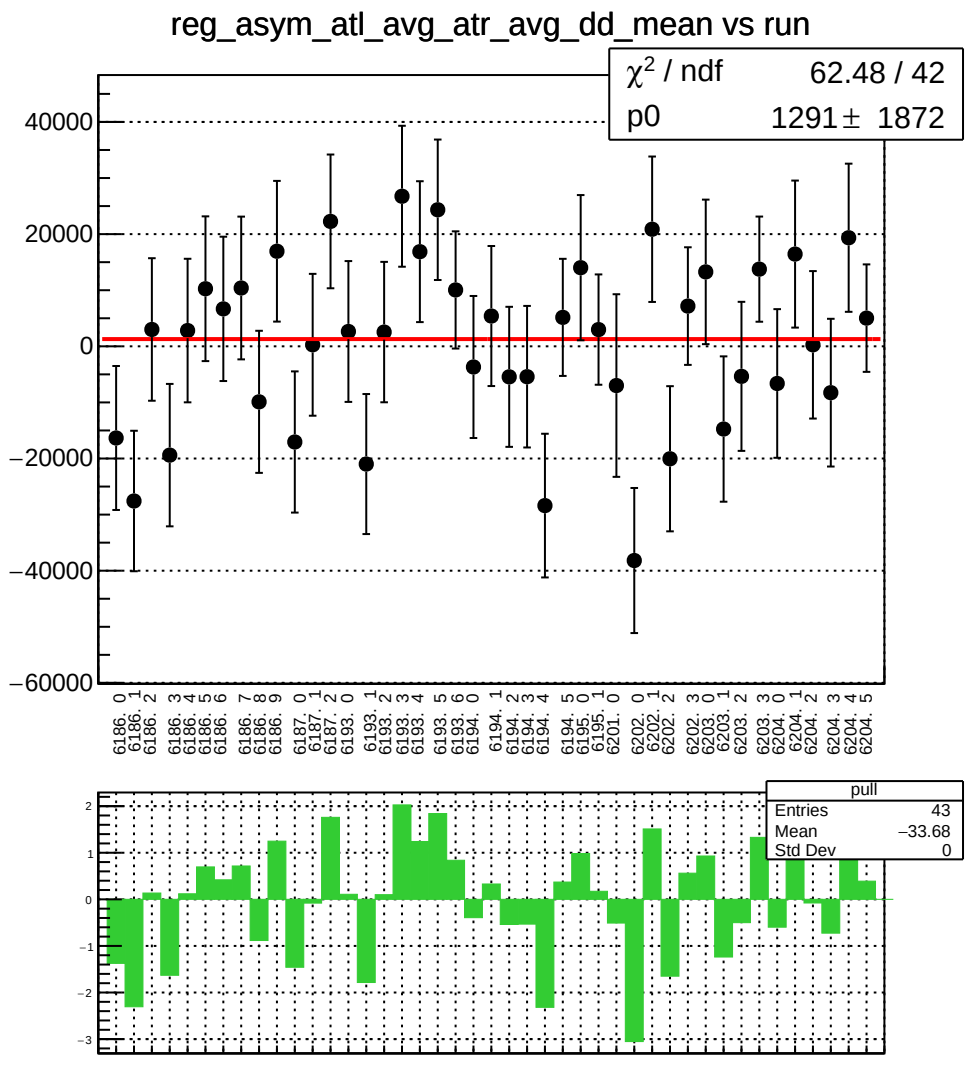

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.44 / 42
p0 0.2513 ± 0.2262
pull
Entries 43
Mean −155.1
Std Dev 0
pull1D
Entries 43
Mean −0.009447
Std Dev 1.05

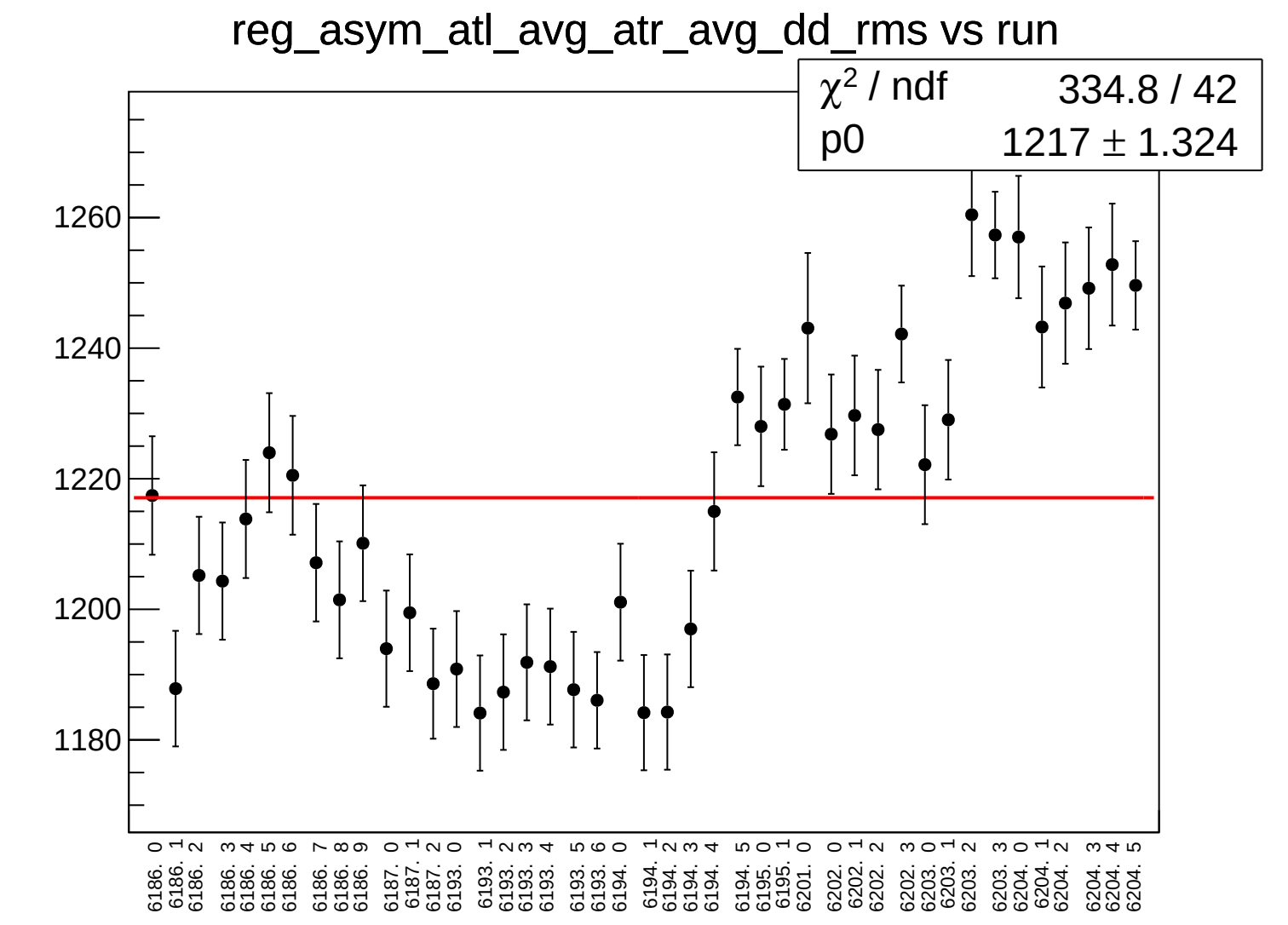

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.342e+04 / 42
p0 142.3 ± 0.16
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

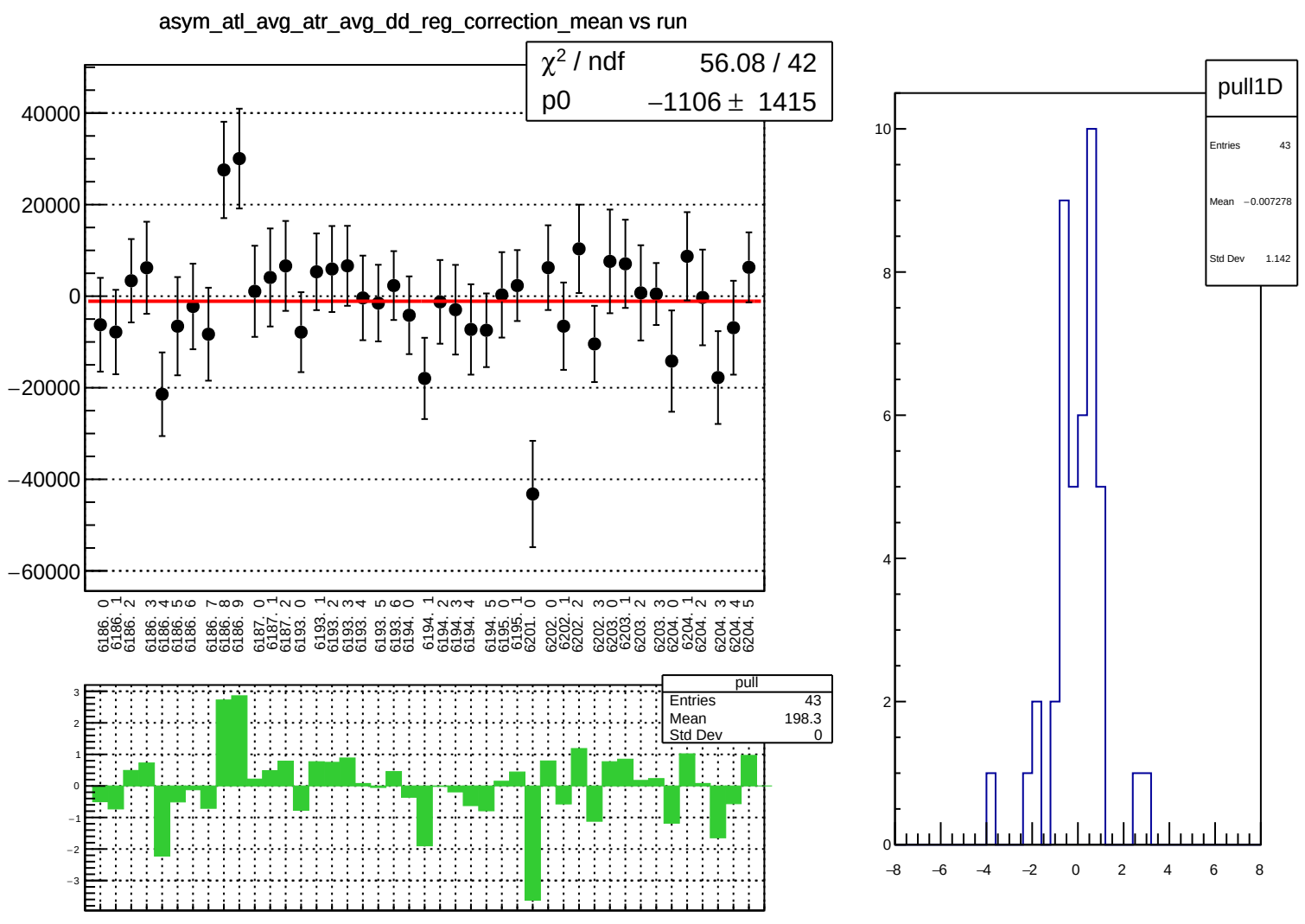

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 45.33 / 42
p0 −4.501e−13 ± 4.911e−13
pull
Entries 43
Mean 75.28
Std Dev 0

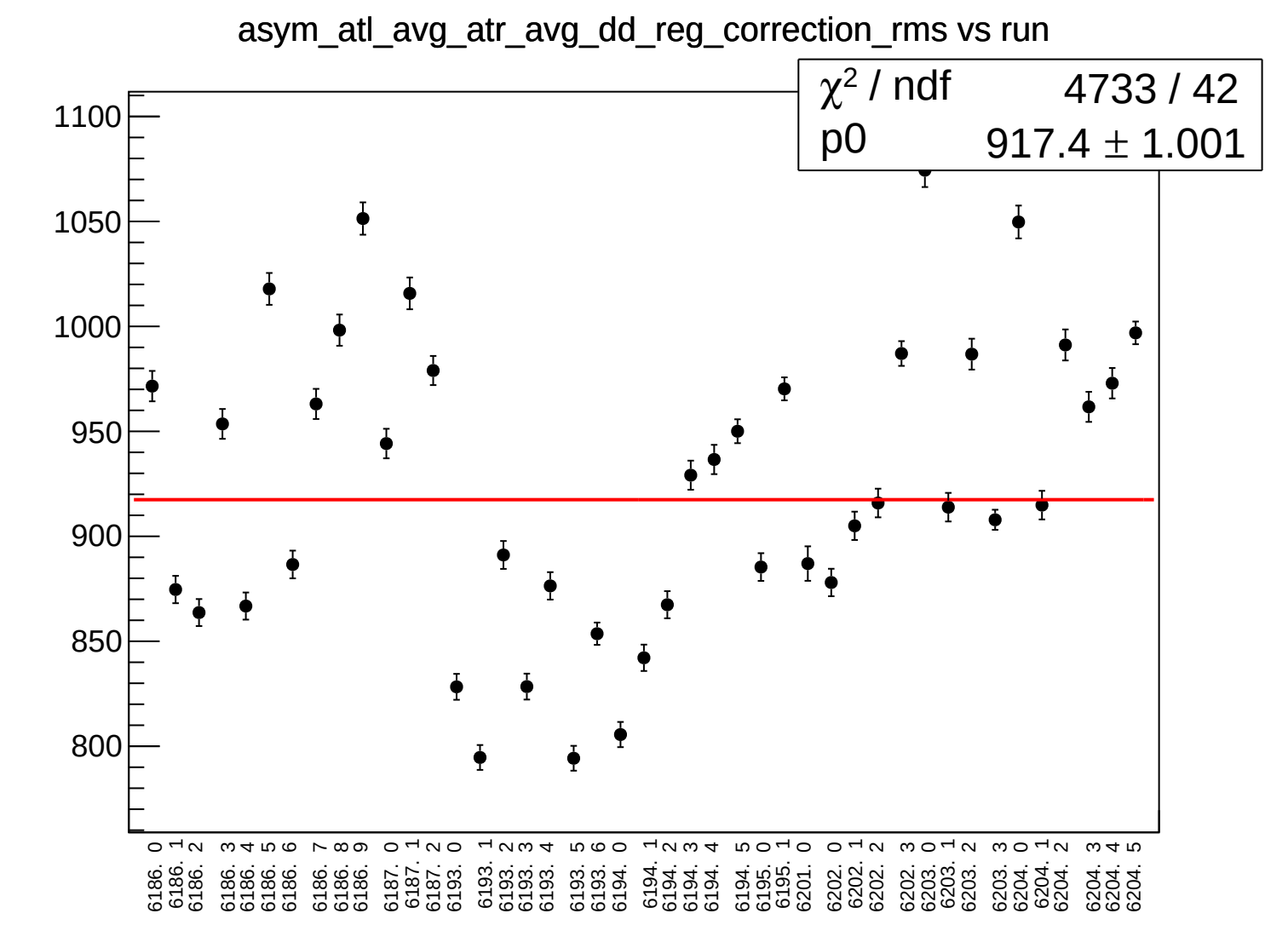

pull1D
Entries 43
Mean 0.02022
Std Dev 1.027

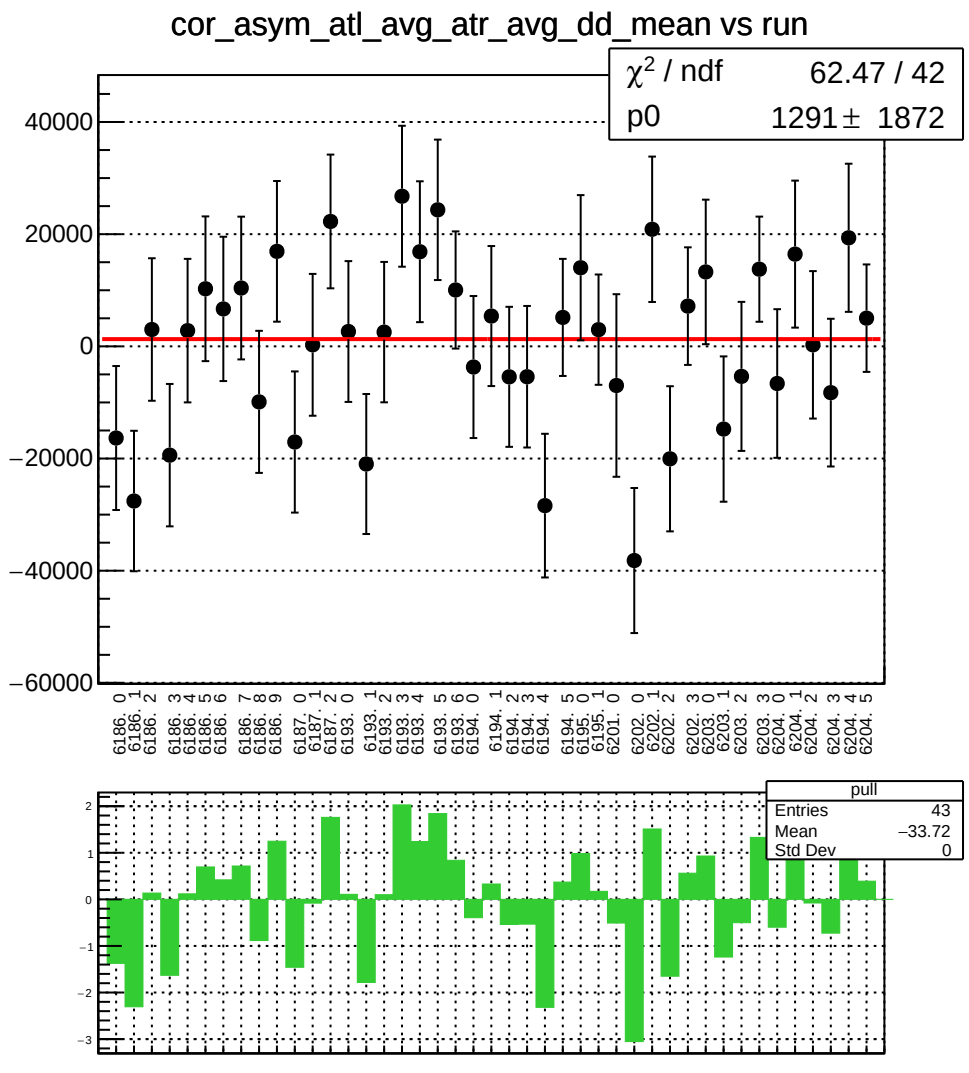

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.762e+05 / 42
p0 2.619e−10 ± 3.472e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

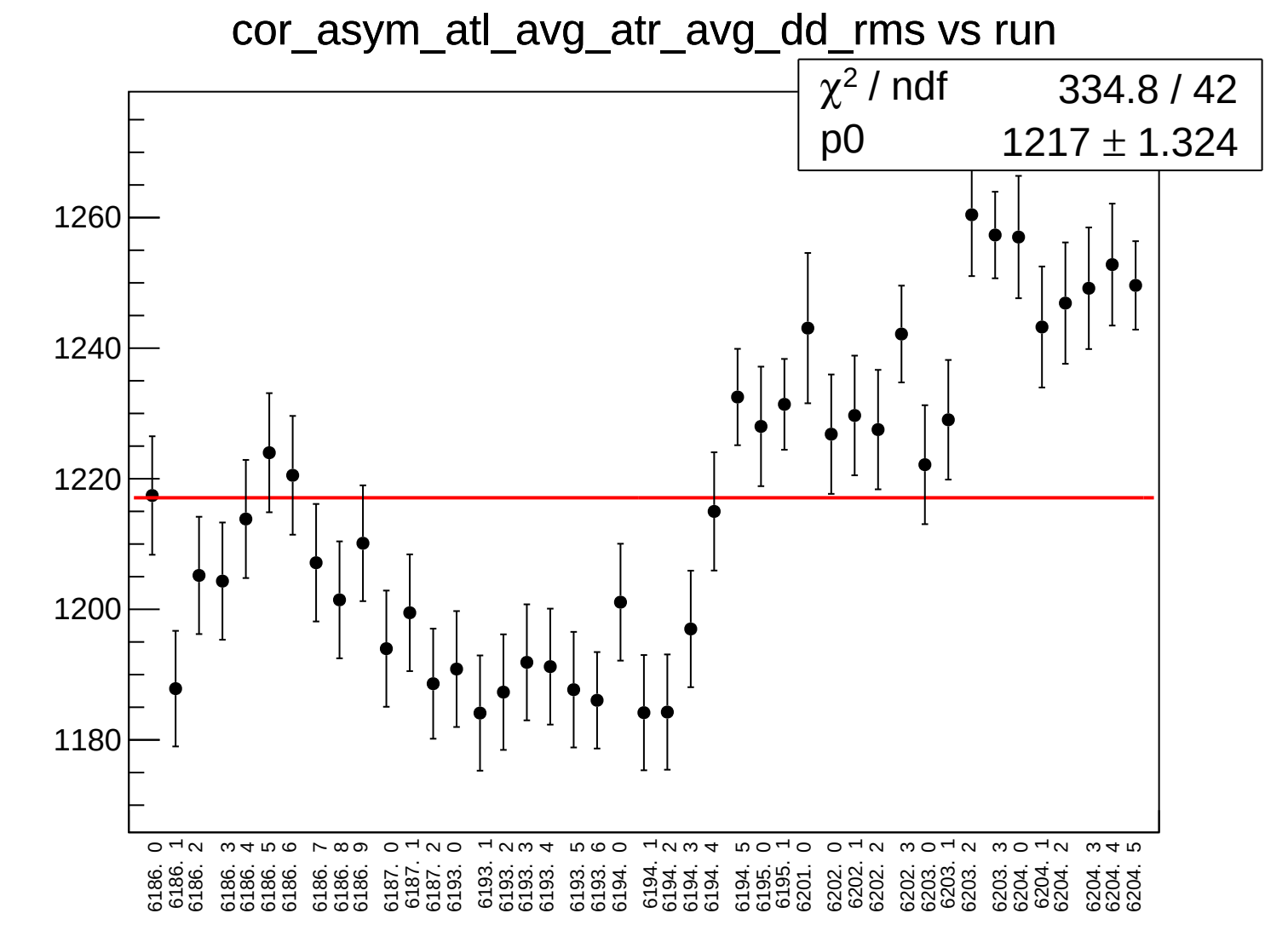

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 62.48 / 42
p0 1291 ± 1872
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −33.68
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.03016
Std Dev 1.205
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 334.8 / 42
p0 1217 ± 1.324
1260
1240
1220
1200
1180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 56.08 / 42
p0 −1106 ± 1415
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 198.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.007278
Std Dev 1.142
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 4733 / 42
p0 917.4 ± 1.001
1100
1050
1000
950
900
850
800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 62.47 / 42
p0 1291 ± 1872
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −33.72
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.03015
Std Dev 1.205
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 334.8 / 42
p0 1217 ± 1.324
1260
1240
1220
1200
1180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6193. 3
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6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
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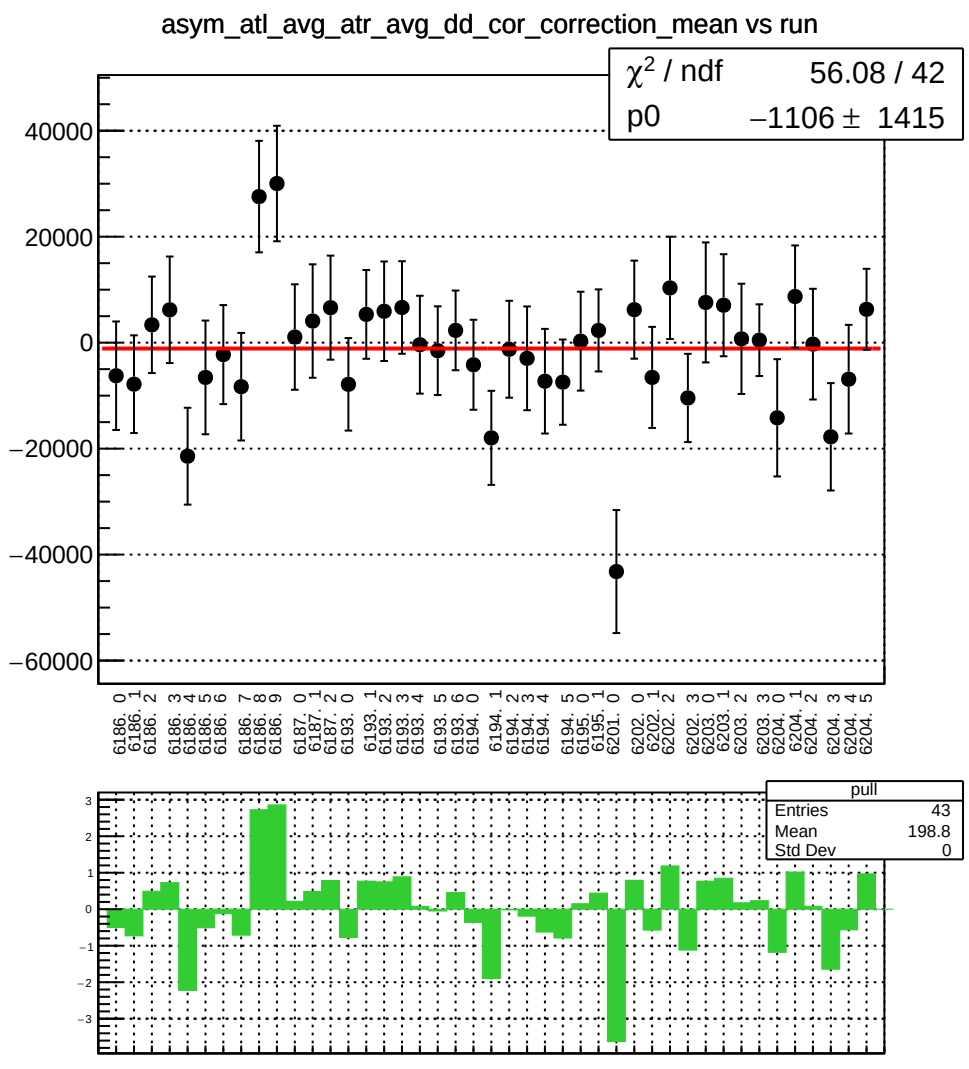
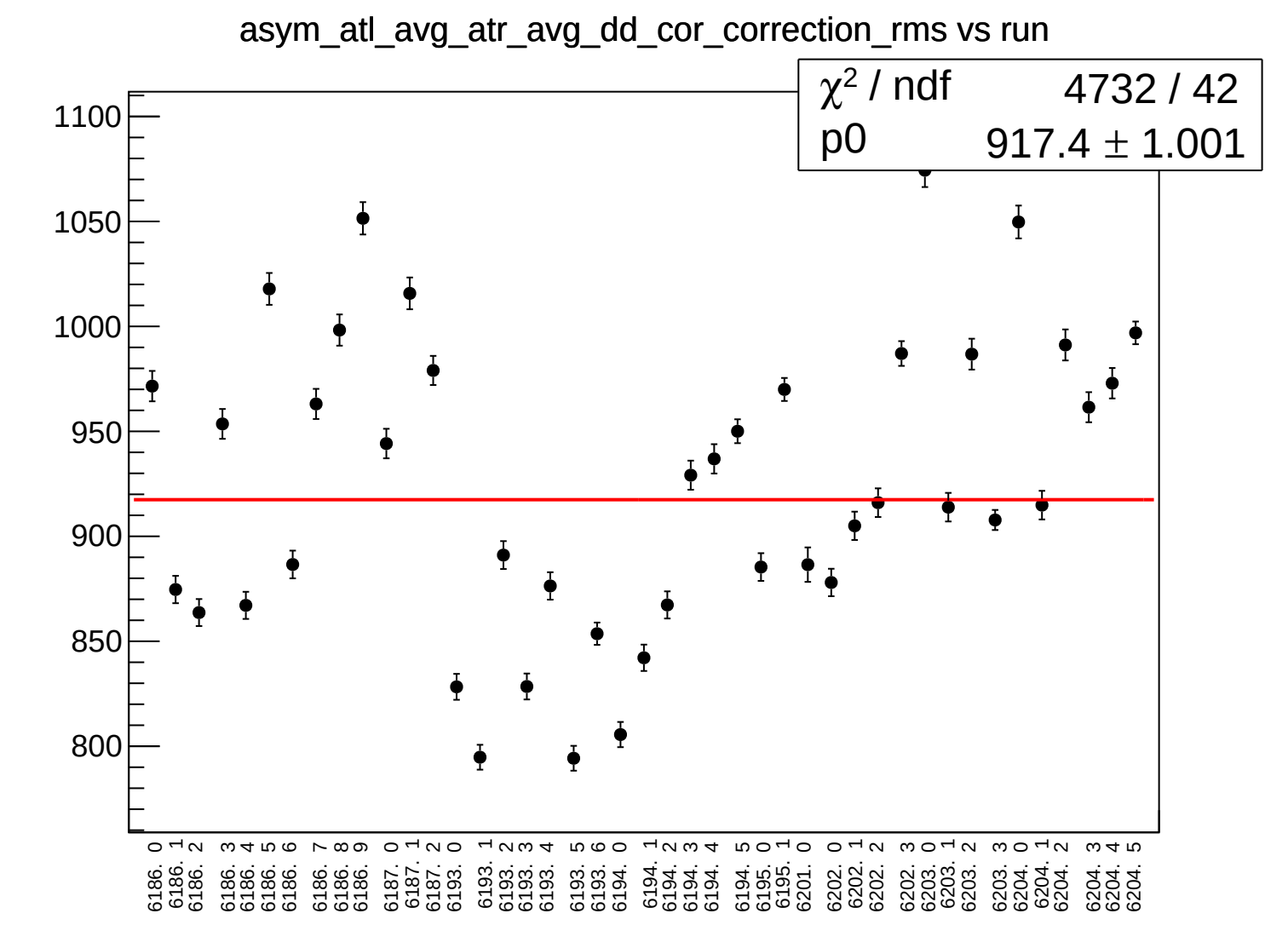
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 56.08 / 42
p0 −1106 ± 1415
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 198.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.007254
Std Dev 1.142
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 4732 / 42
p0 917.4 ± 1.001
1100
1050
1000
950
900
850
800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
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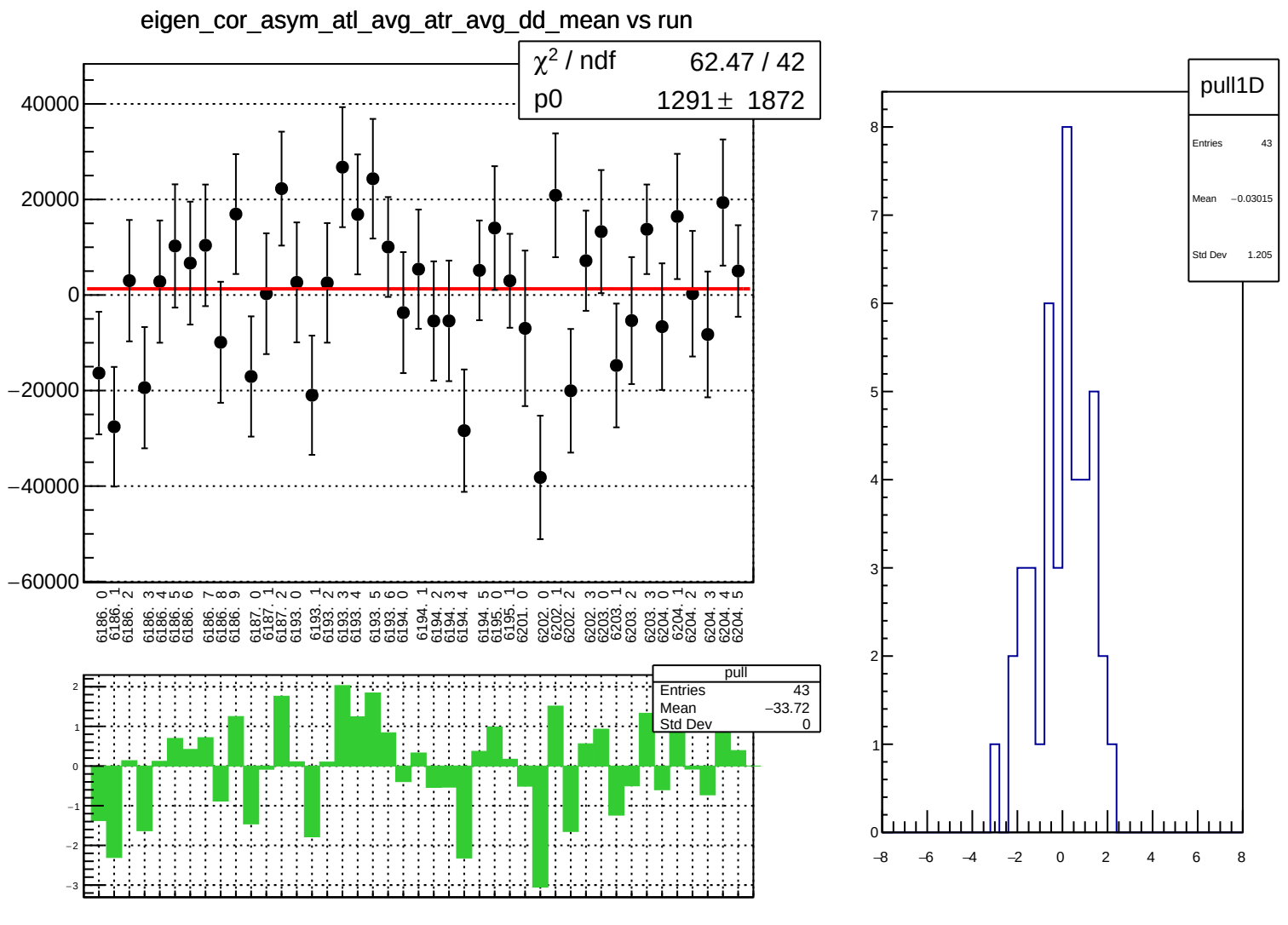
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 62.47 / 42
p0 1291 ± 1872
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
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6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −33.72
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.03015
Std Dev 1.205
8
7
6
5
4
3
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1
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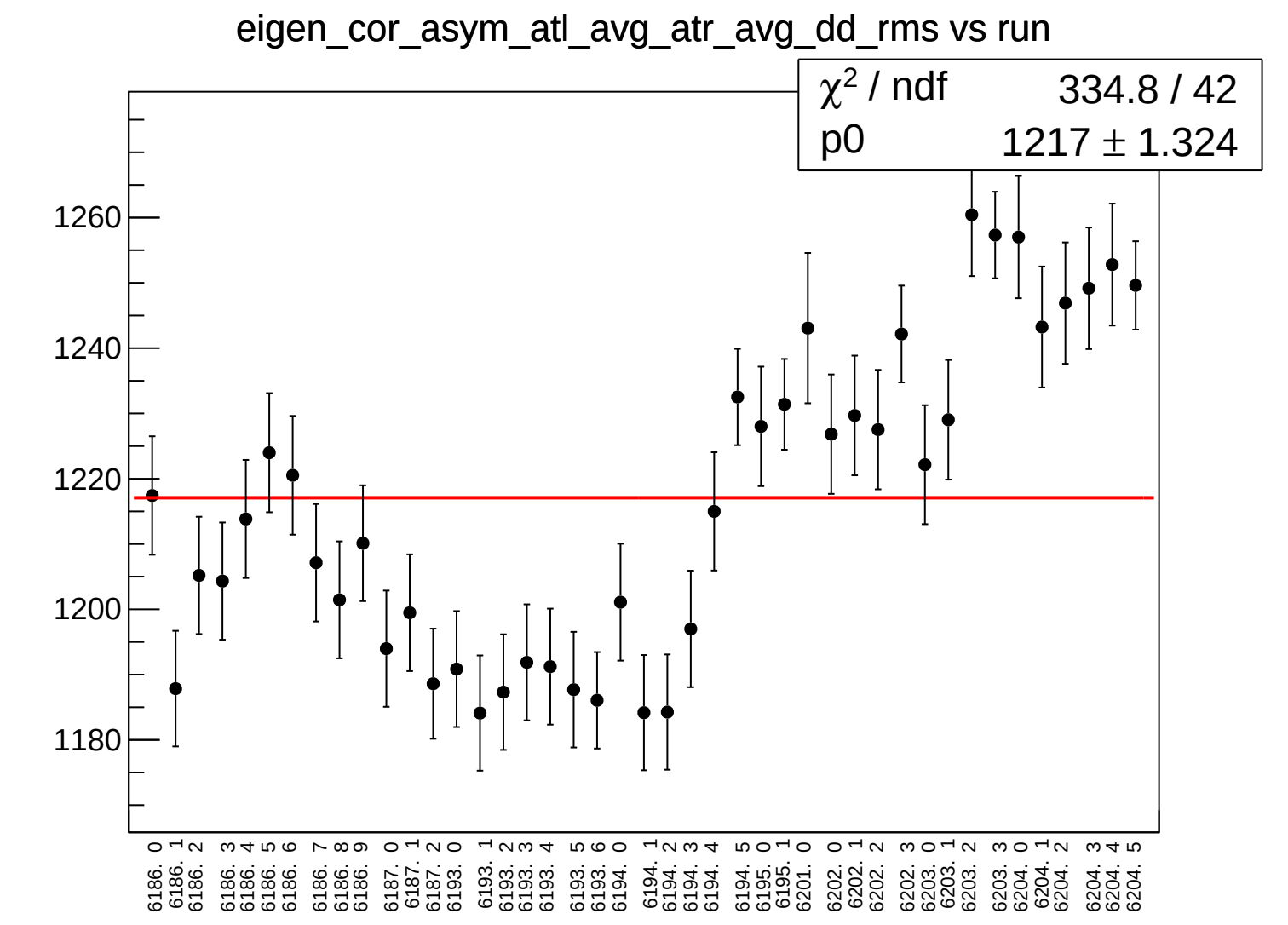
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 334.8 / 42
p0 1217 ± 1.324
1260
1240
1220
1200
1180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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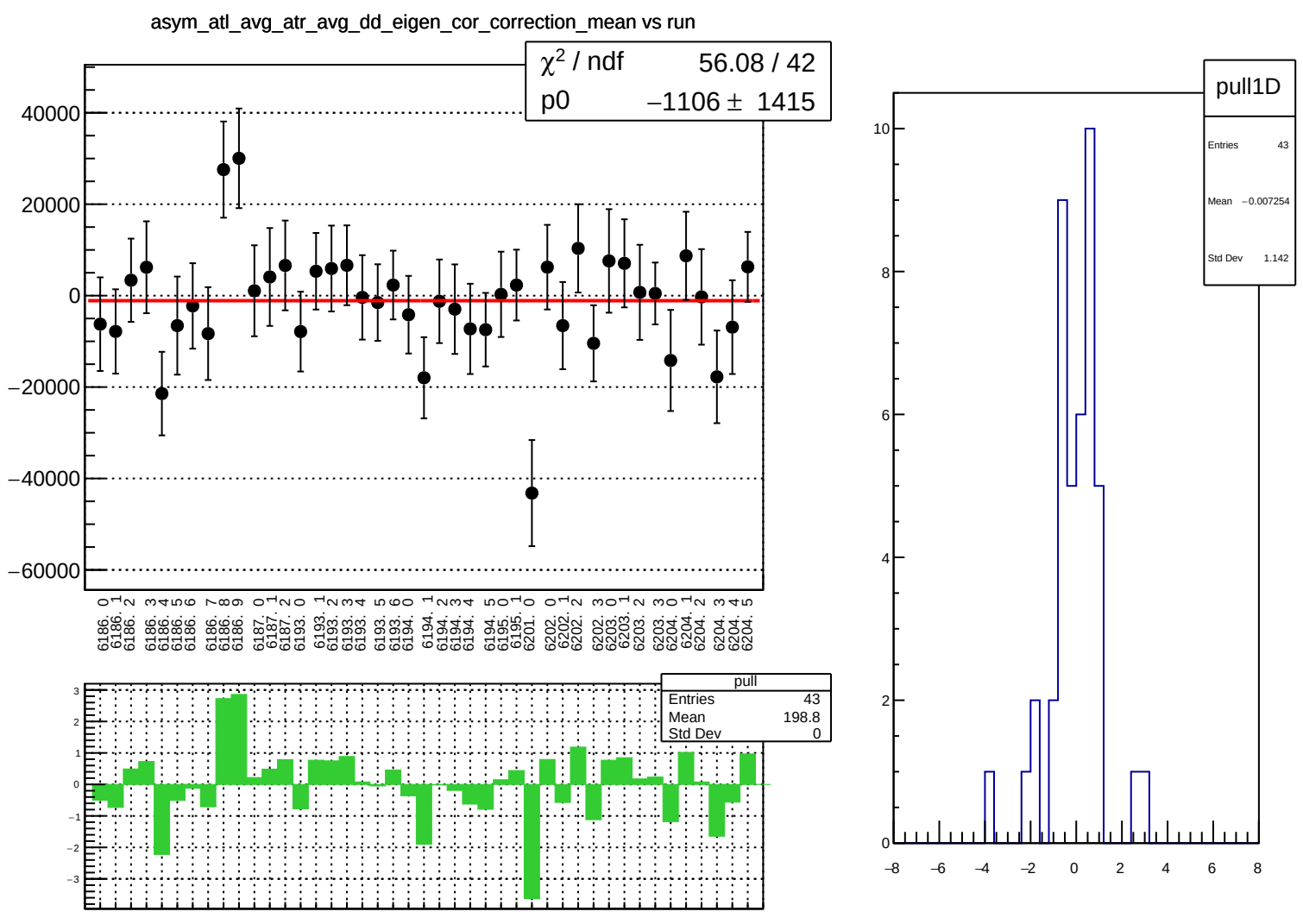
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 56.08 / 42
p0 −1106 ± 1415
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
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6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 198.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.007254
Std Dev 1.142
10
8
6
4
2
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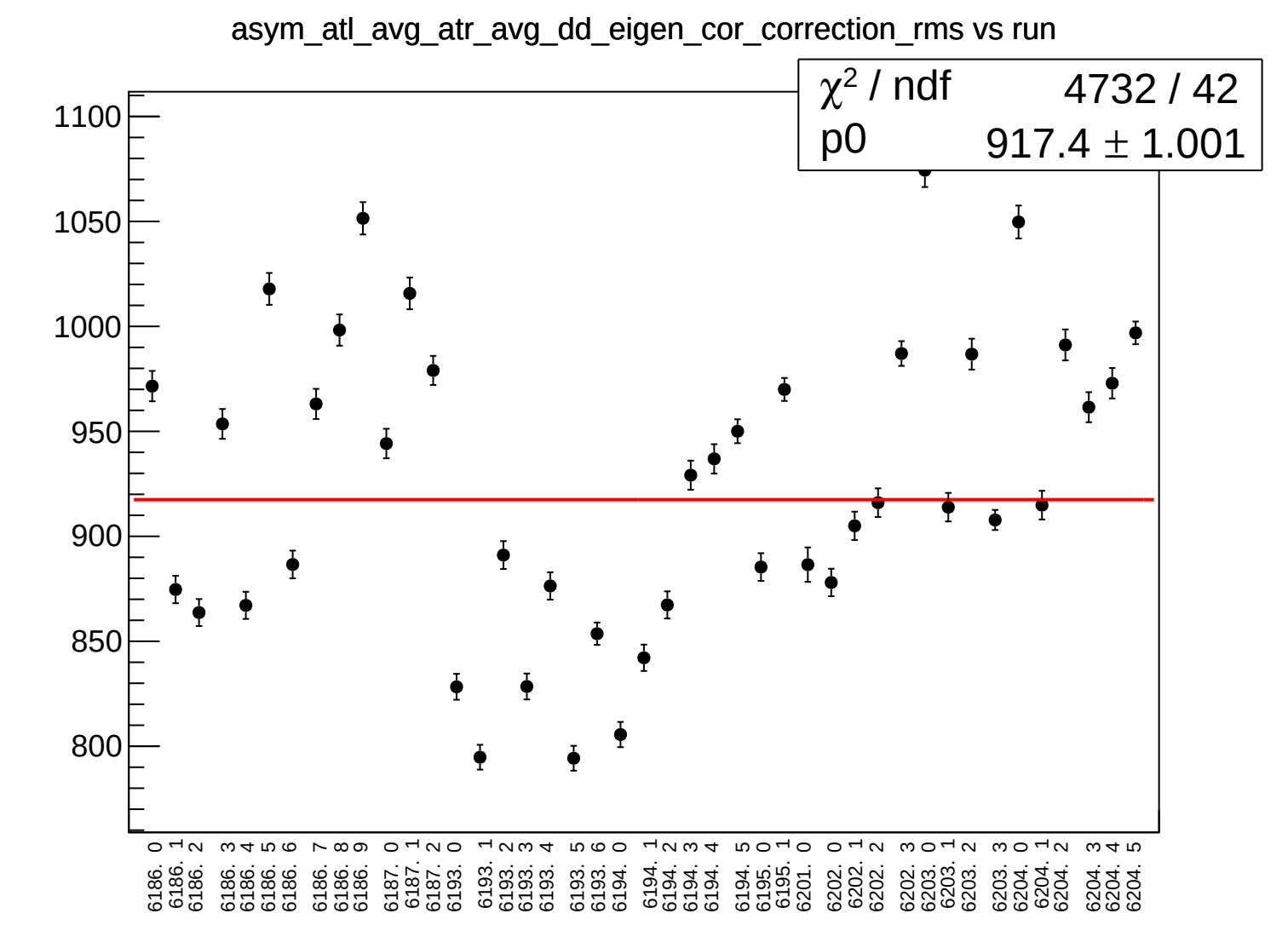
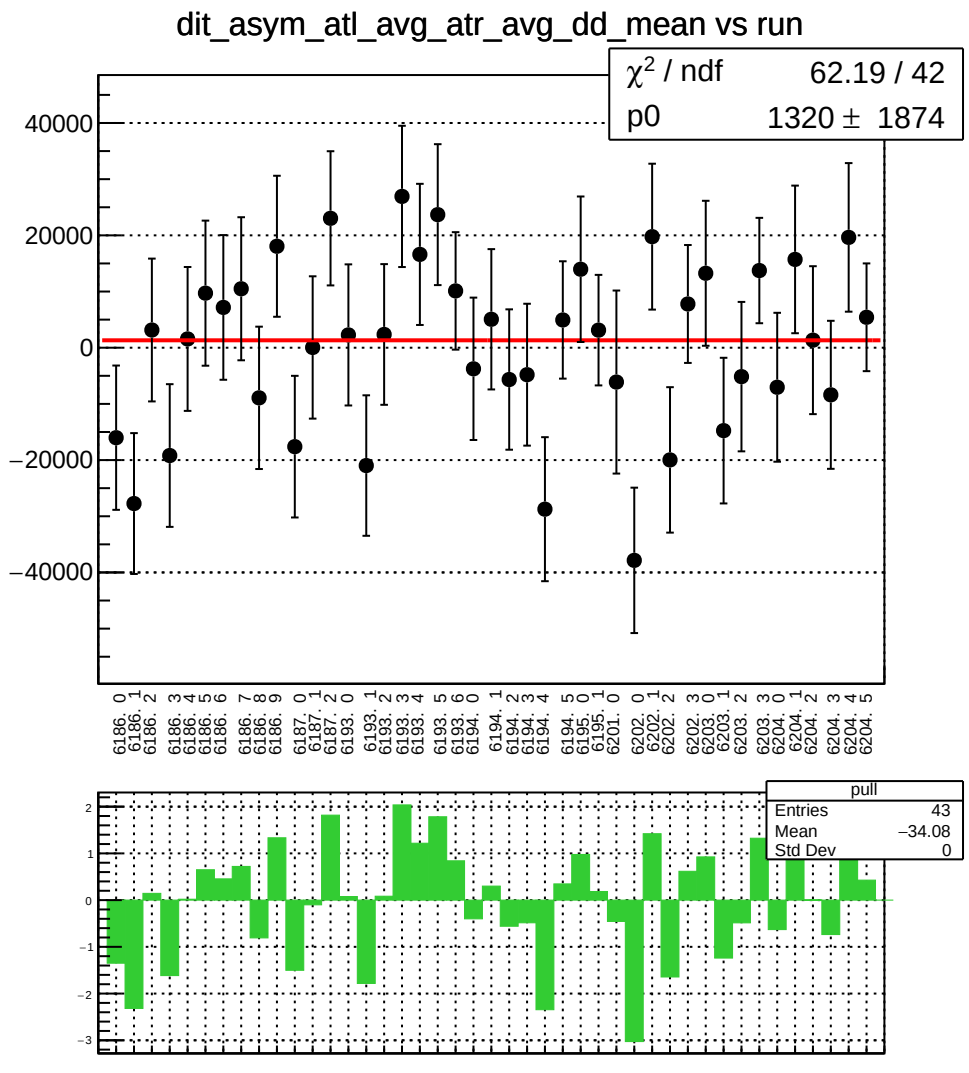
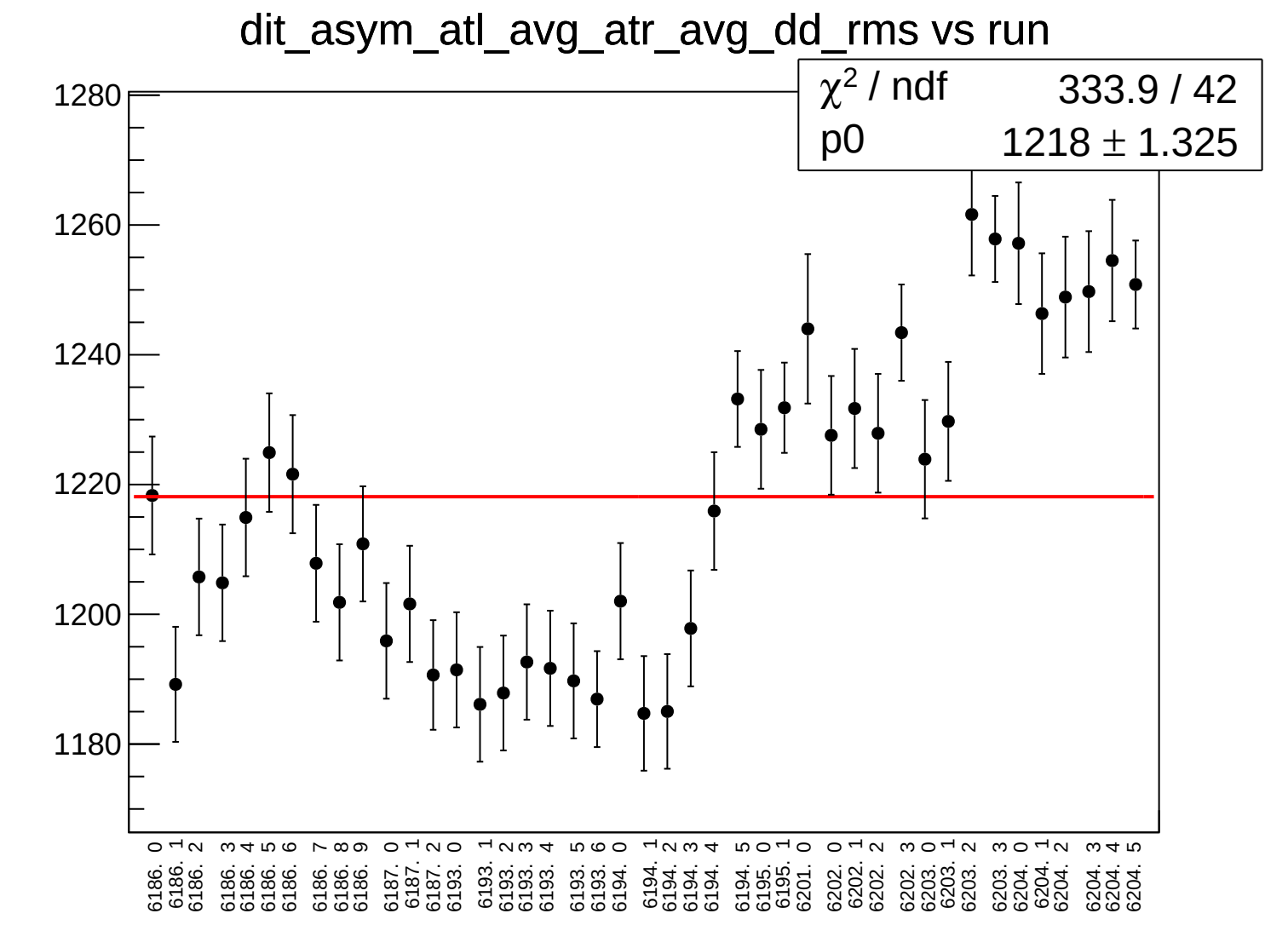
−6
−4
−2
0
2
4
6
8


asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4732 / 42
p0 917.4 ± 1.001
1100
1050
1000
950
900
850
800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 62.19 / 42
p0 1320 ± 1874
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −34.08
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.03036
Std Dev 1.202
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 333.9 / 42
p0 1218 ± 1.325
1280
1260
1240
1220
1200
1180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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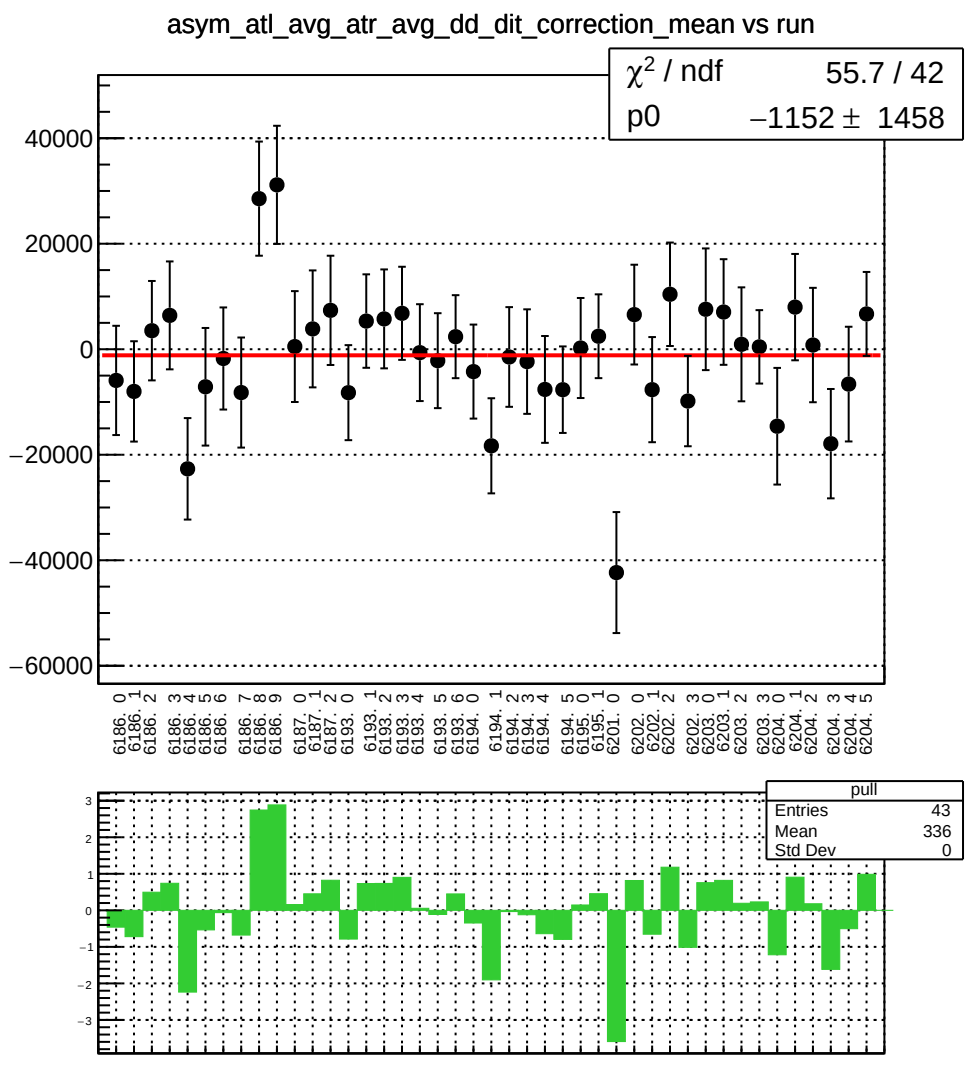
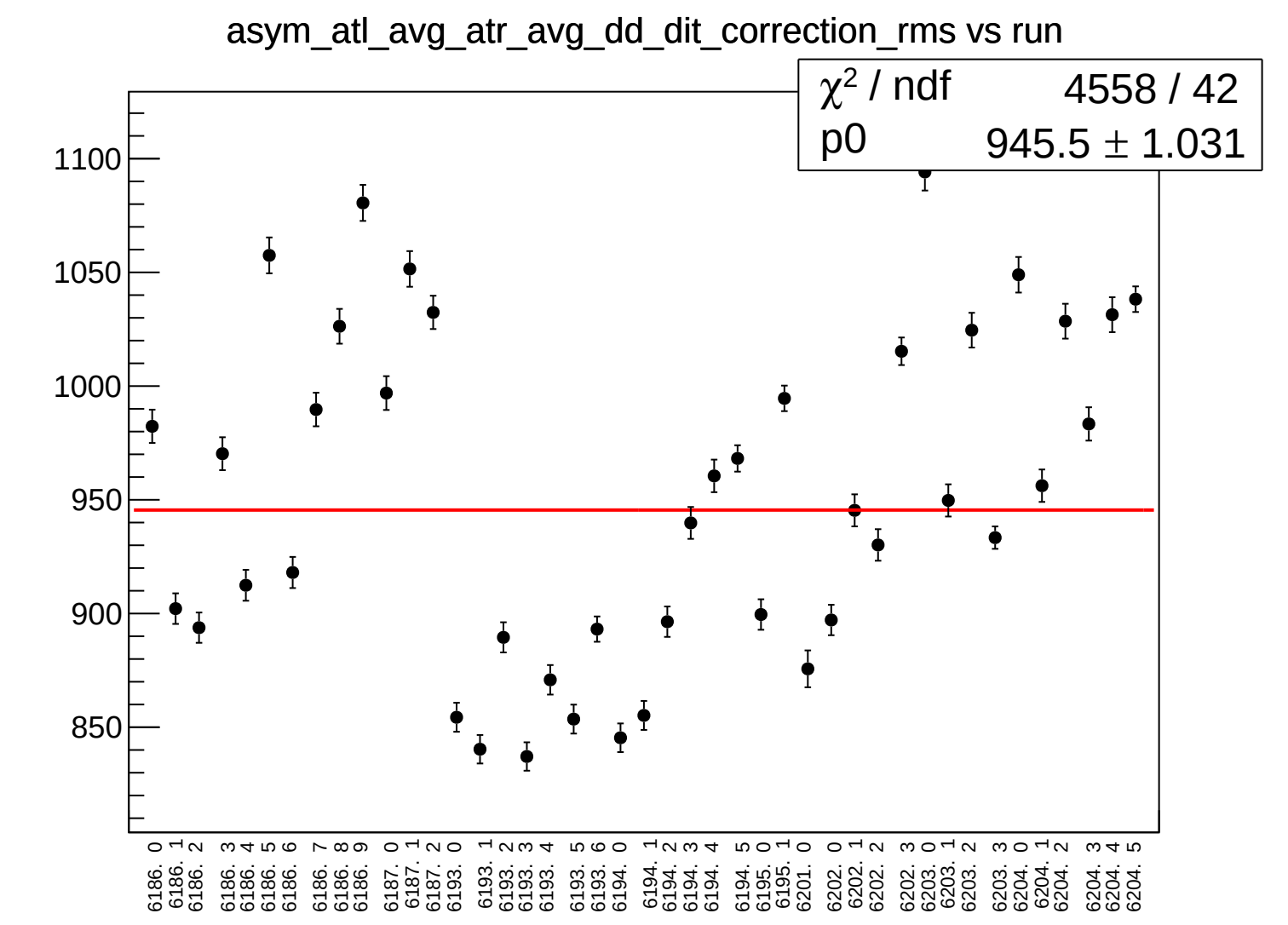
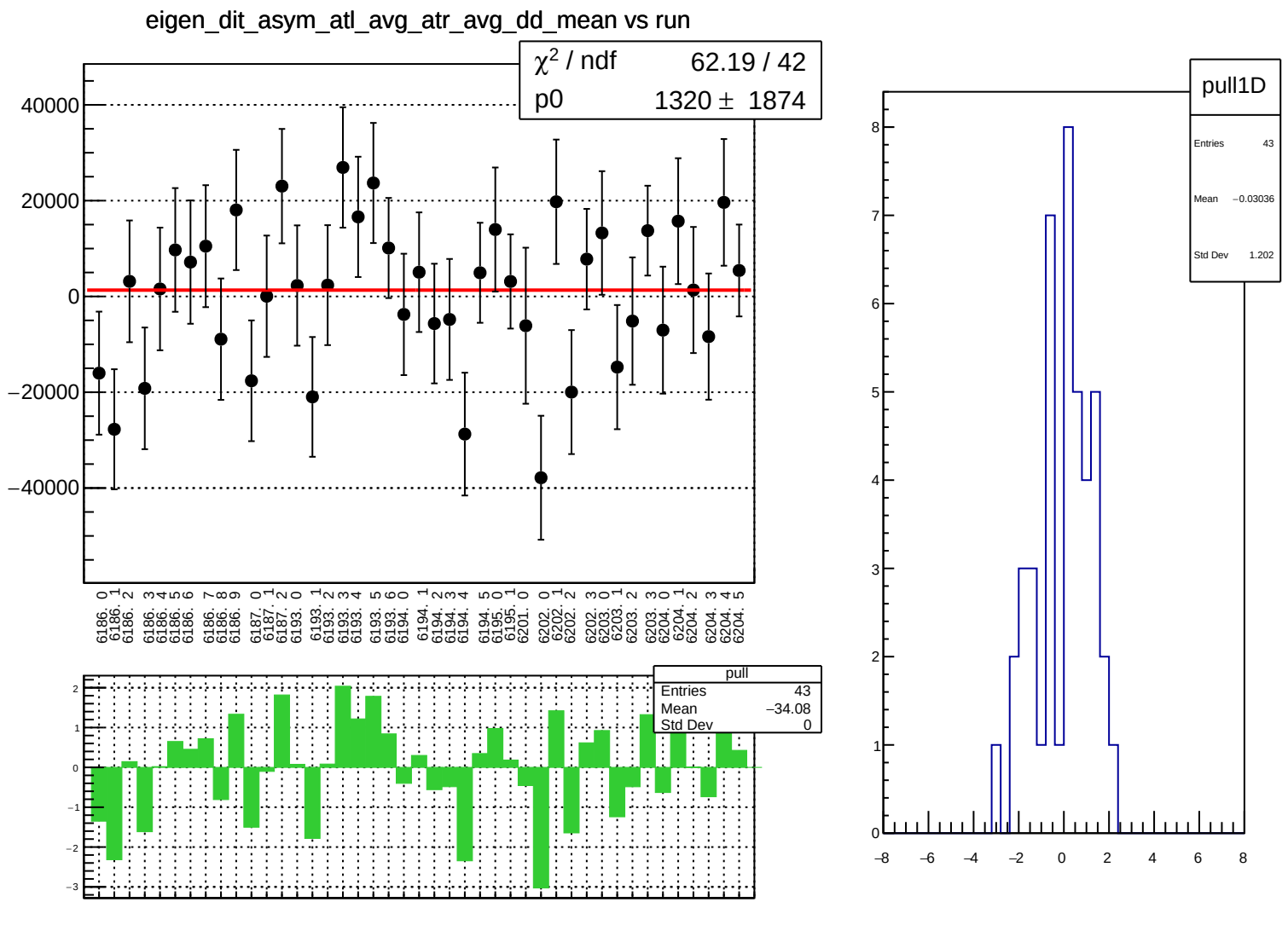
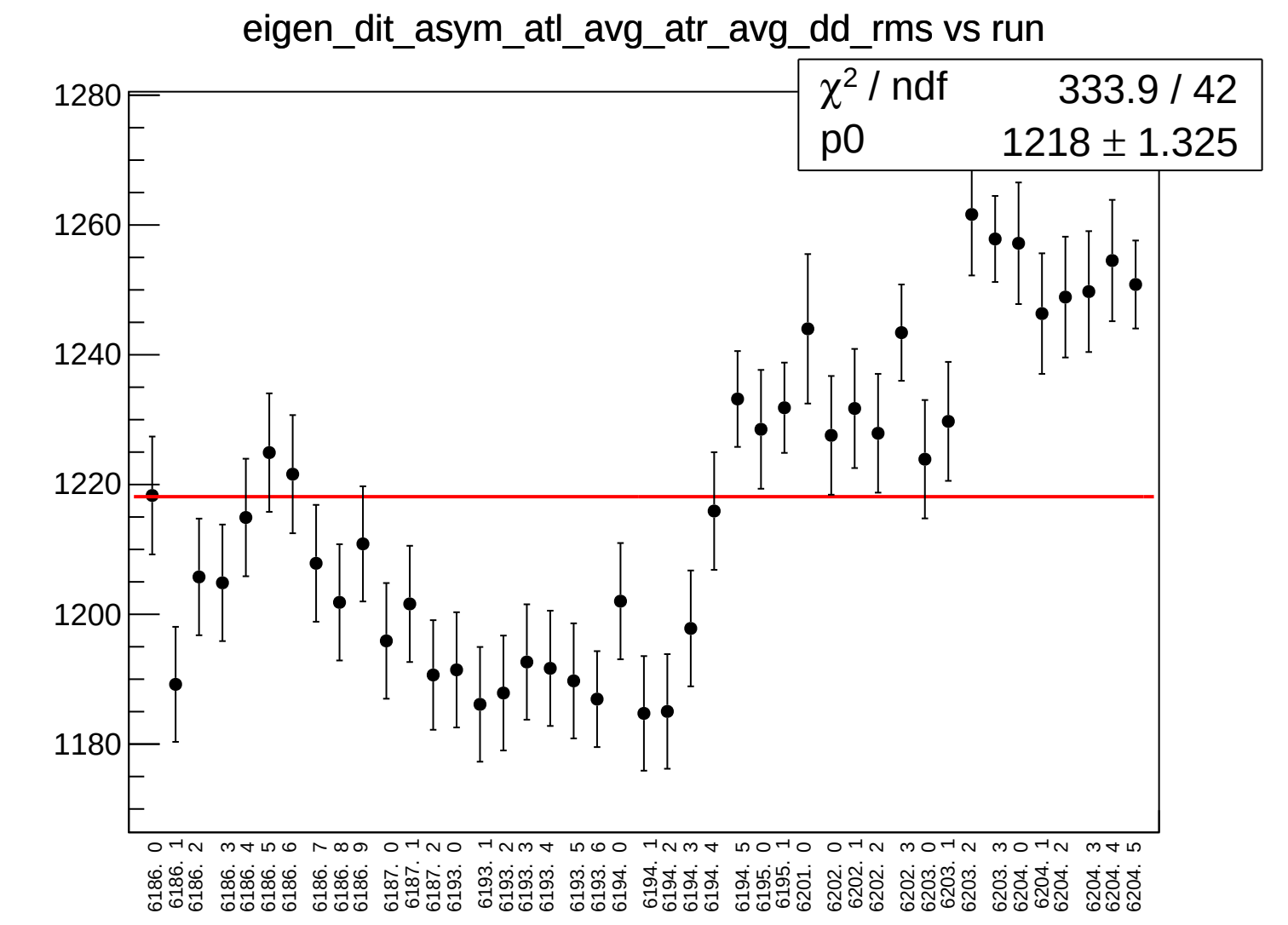
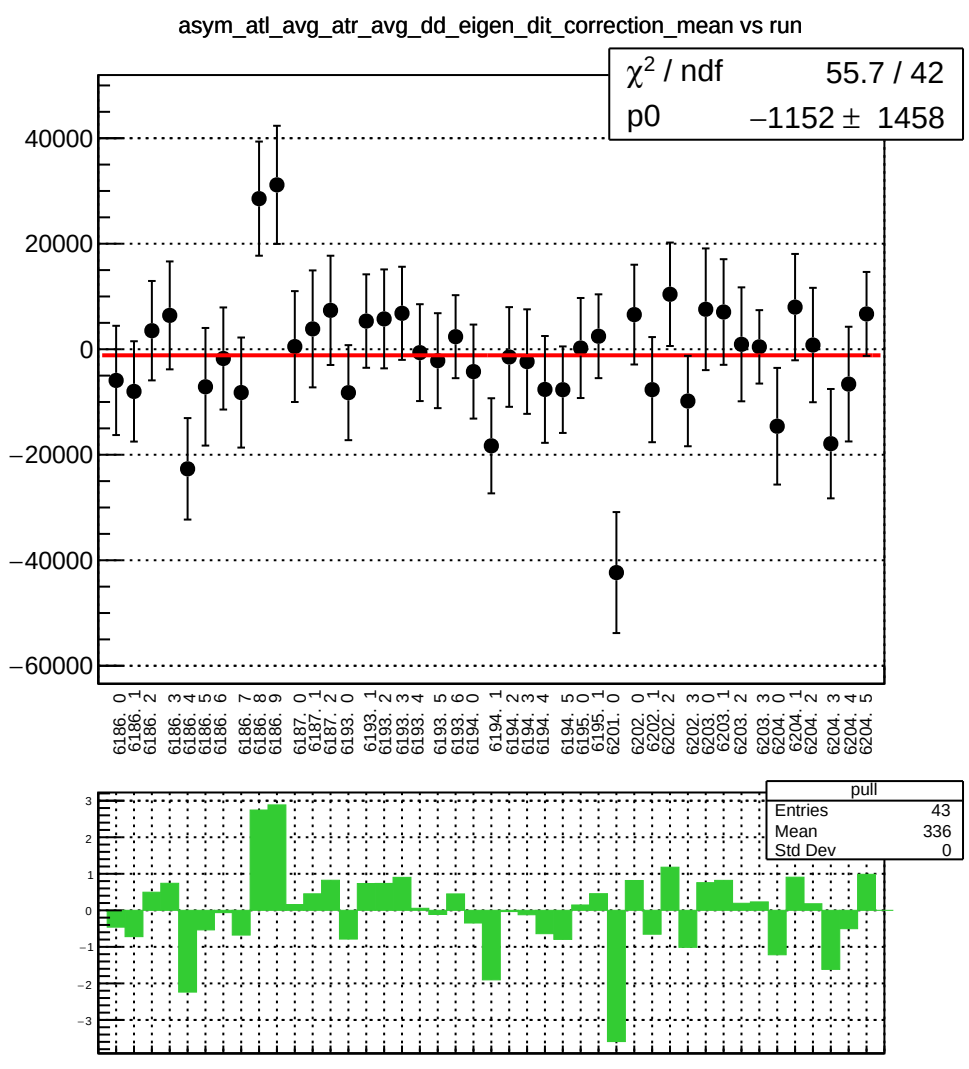
6204. 2
6204. 3
6204. 4
6204. 5

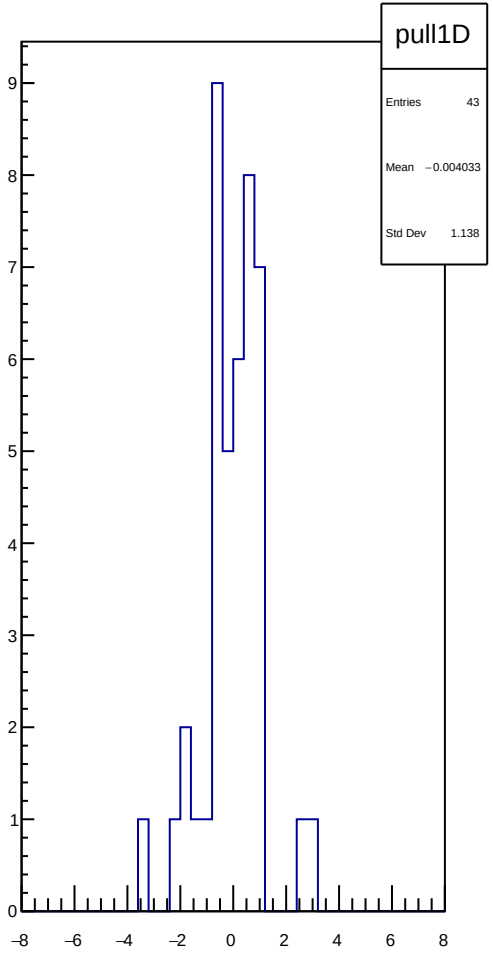

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 55.7 / 42
p0 −1152 ± 1458
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 336
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.004033
Std Dev 1.138
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

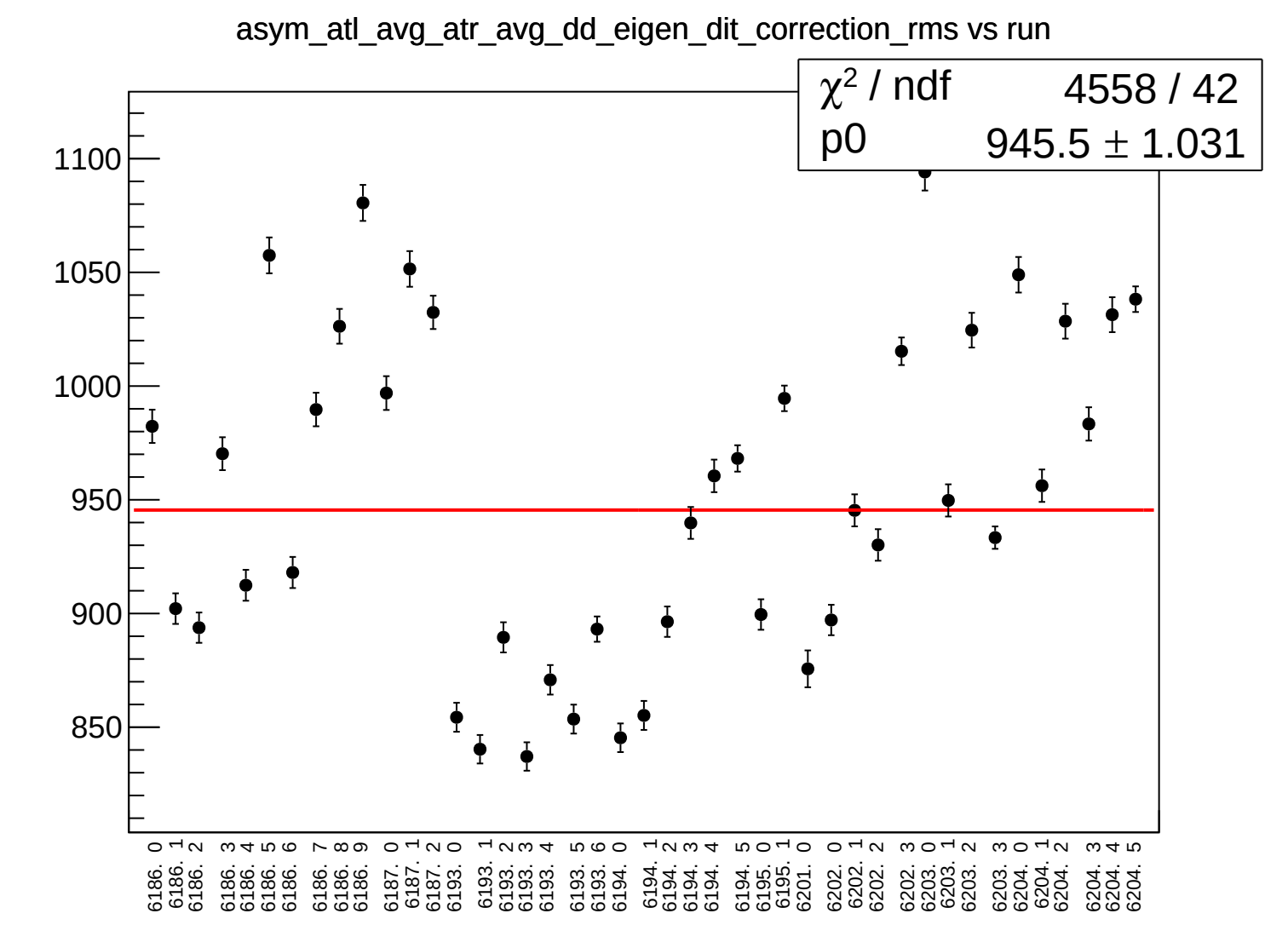

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 4558 / 42
p0 945.5 ± 1.031
1100
1050
1000
950
900
850
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

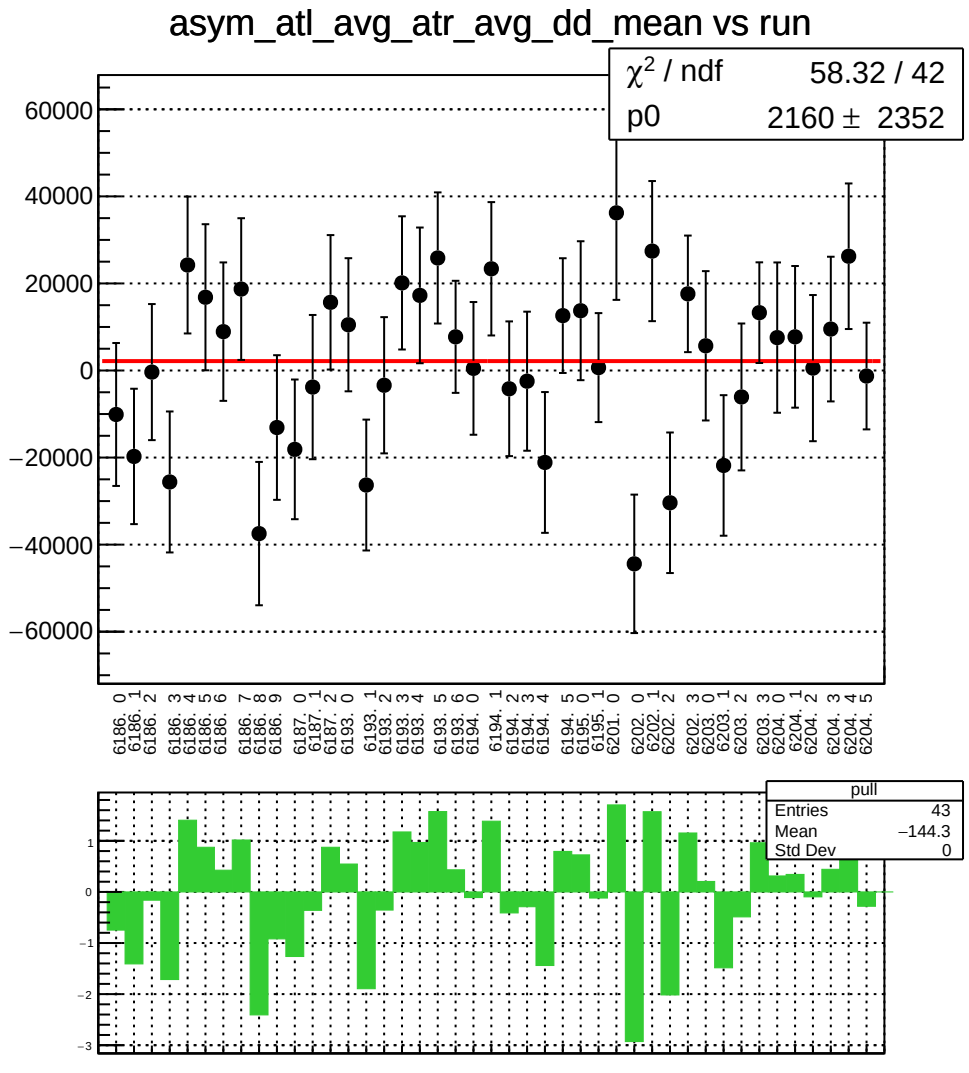

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 62.19 / 42
p0 1320 ± 1874
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −34.08
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.03036
Std Dev 1.202
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

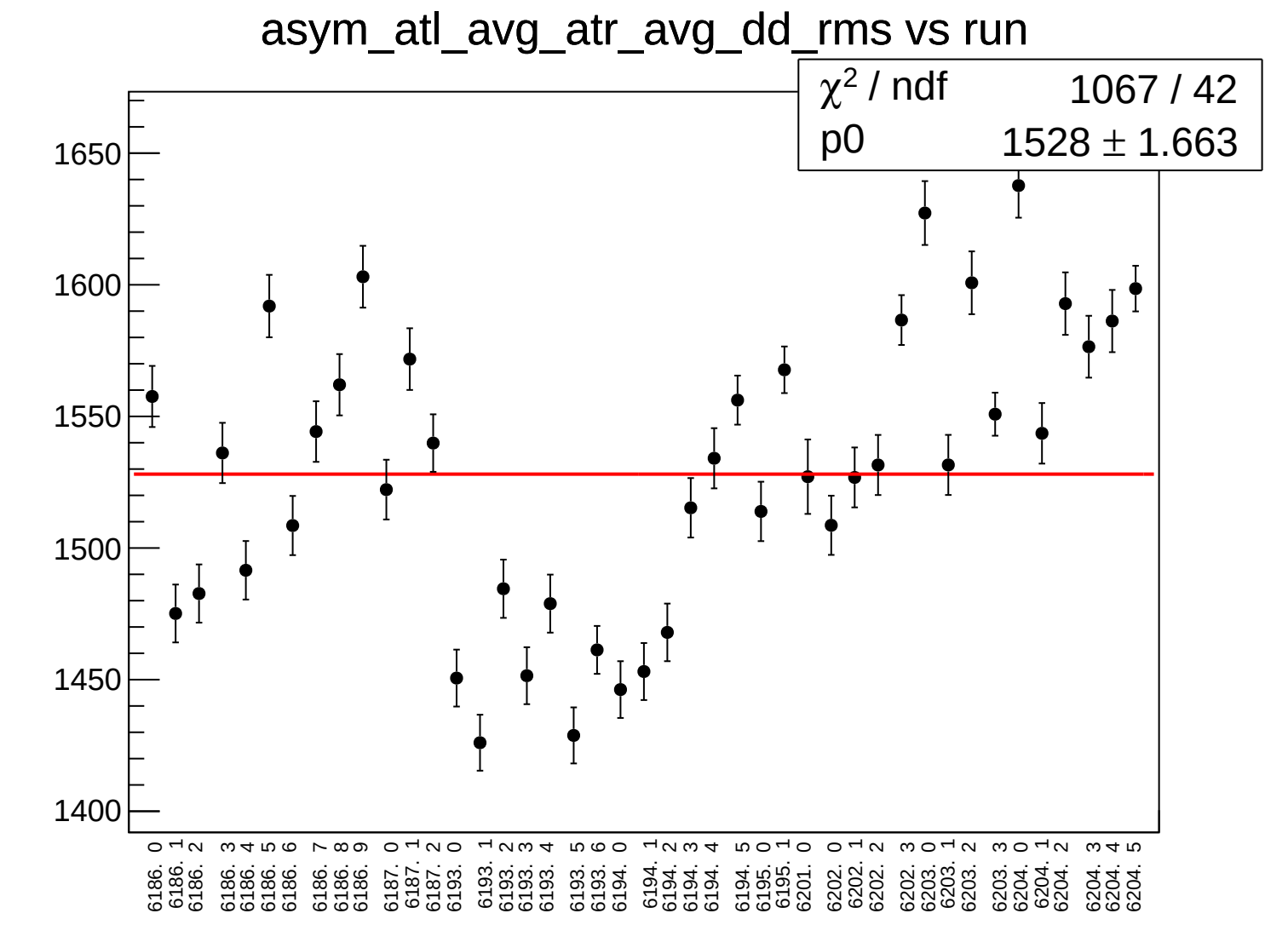

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 333.9 / 42
p0 1218 ± 1.325
1280
1260
1240
1220
1200
1180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

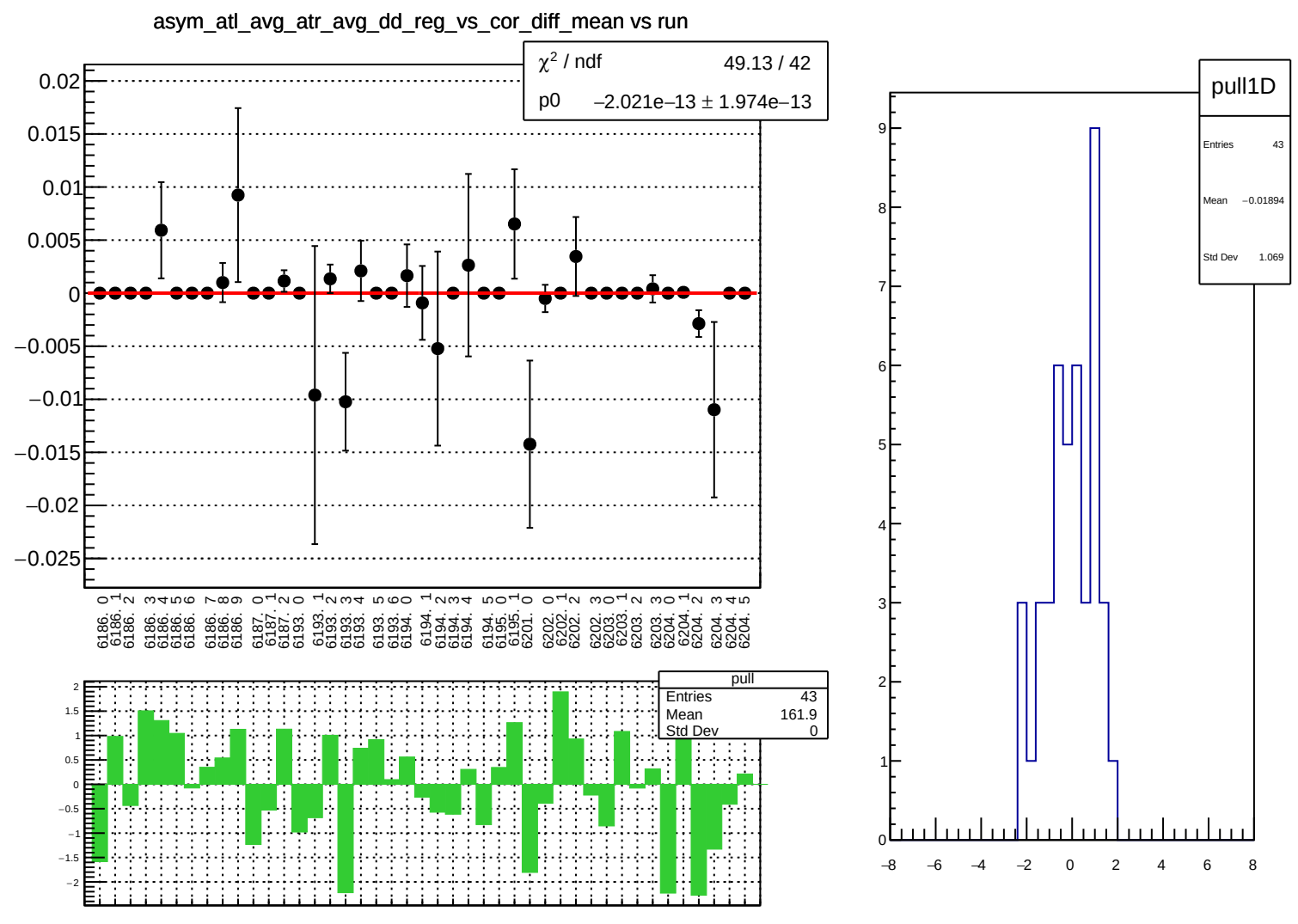

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 55.7 / 42
p0 −1152 ± 1458
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 336
Std Dev 0
3
2
1
0
−1
−2
−3

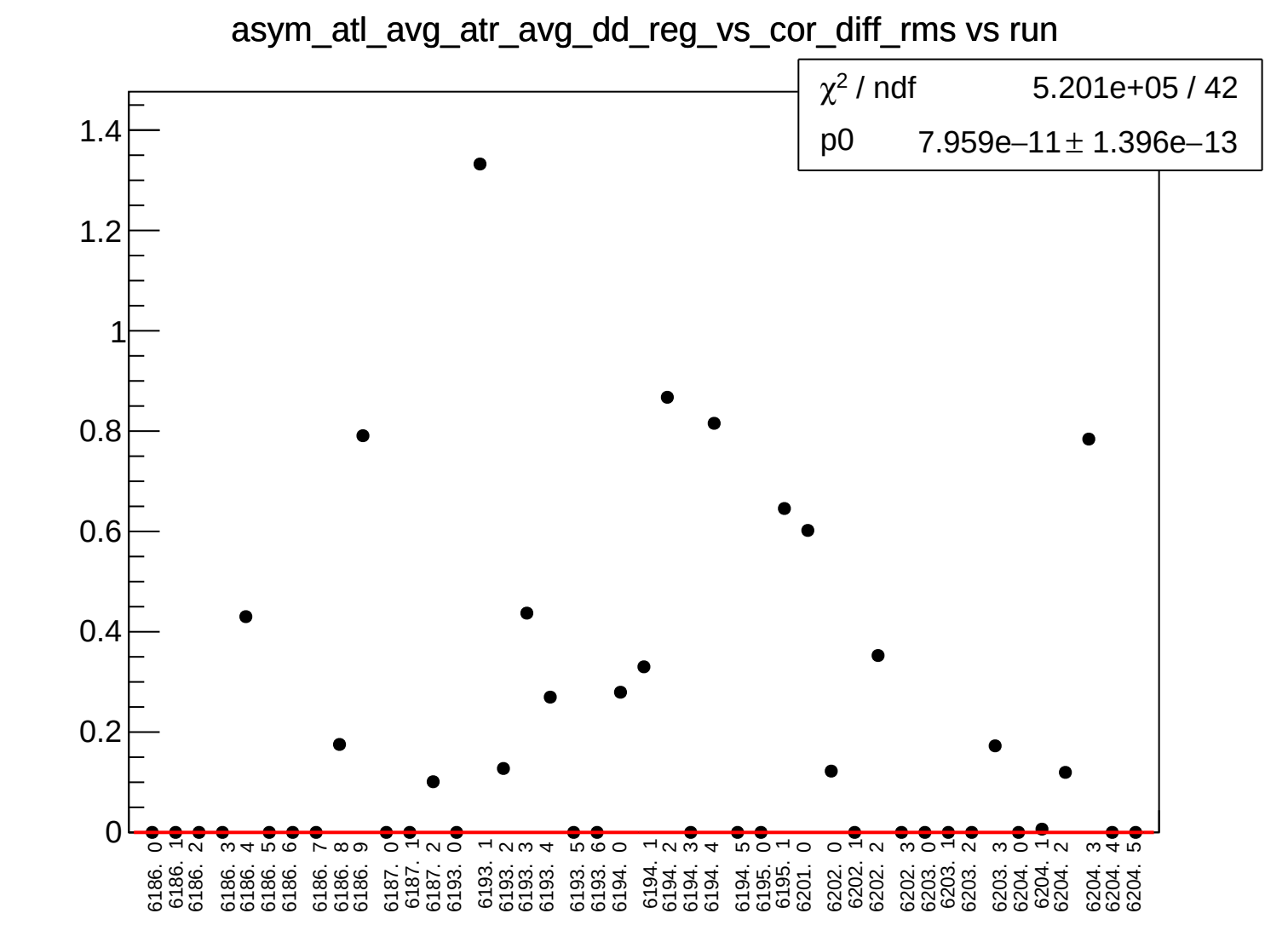

pull1D
Entries 43
Mean −0.004033
Std Dev 1.138
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

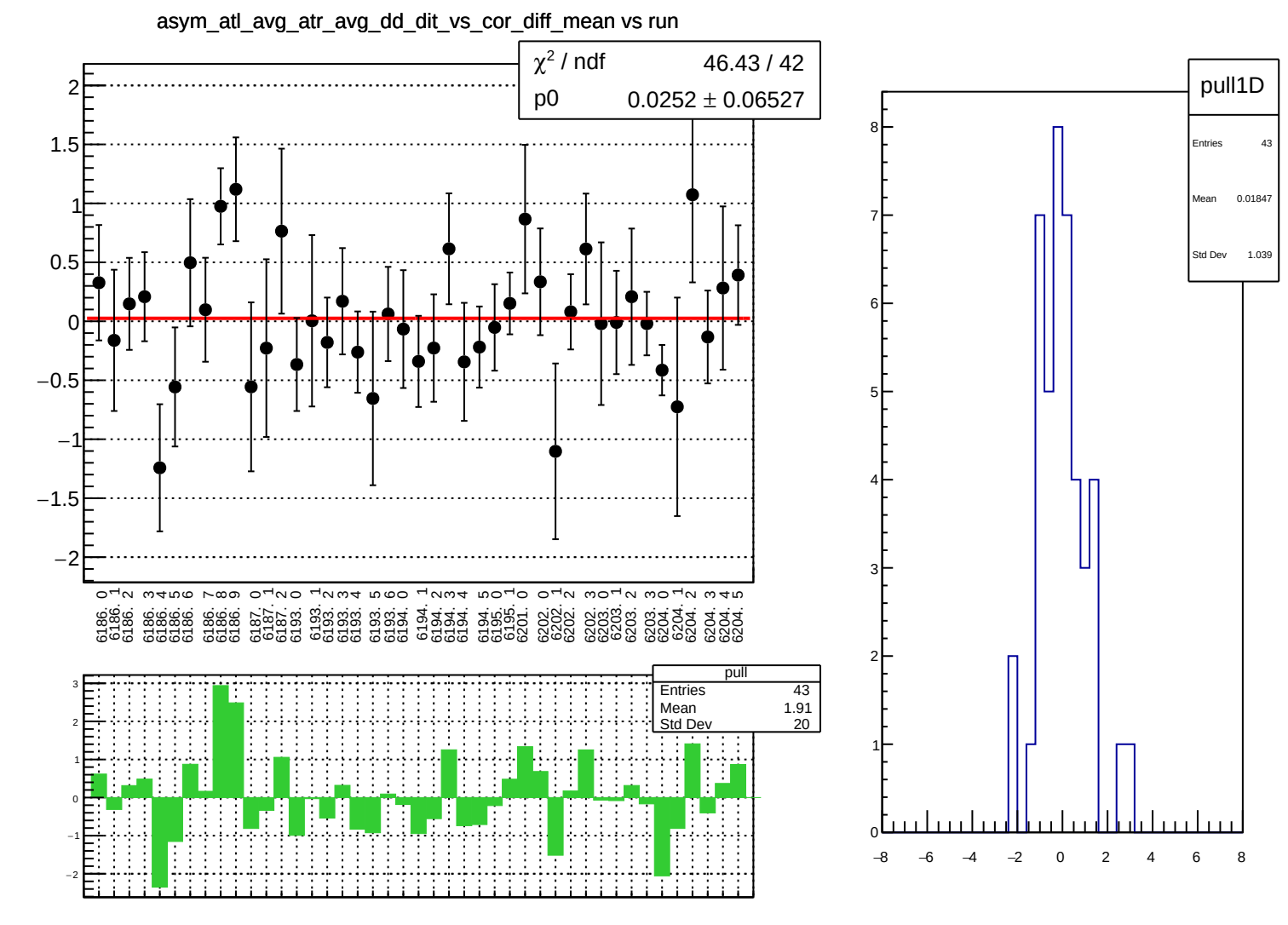

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4558 / 42
p0 945.5 ± 1.031
1100
1050
1000
950
900
850
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

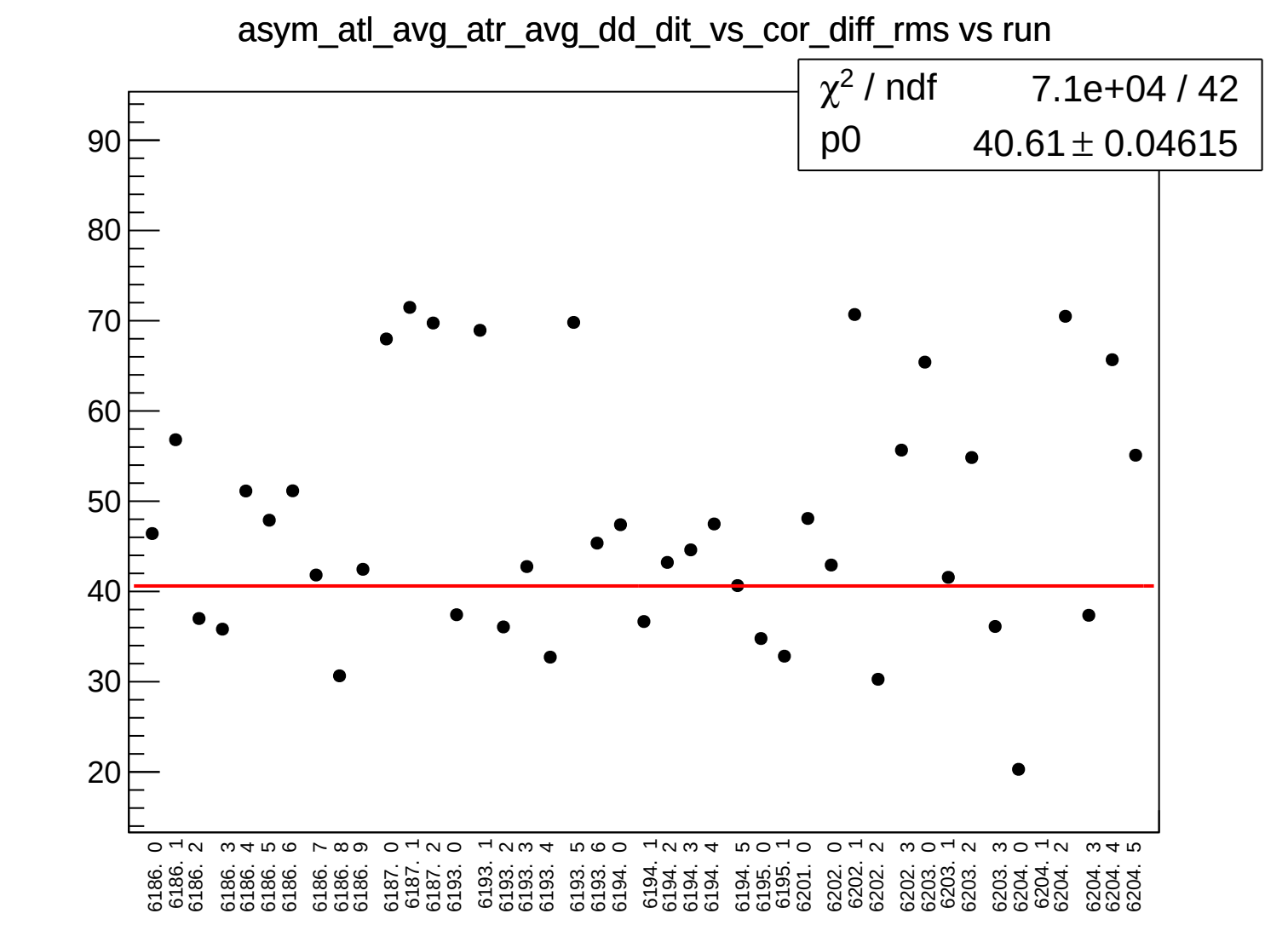

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 58.32 / 42
p0 2160 ± 2352
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −144.3
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01321
Std Dev 1.165
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

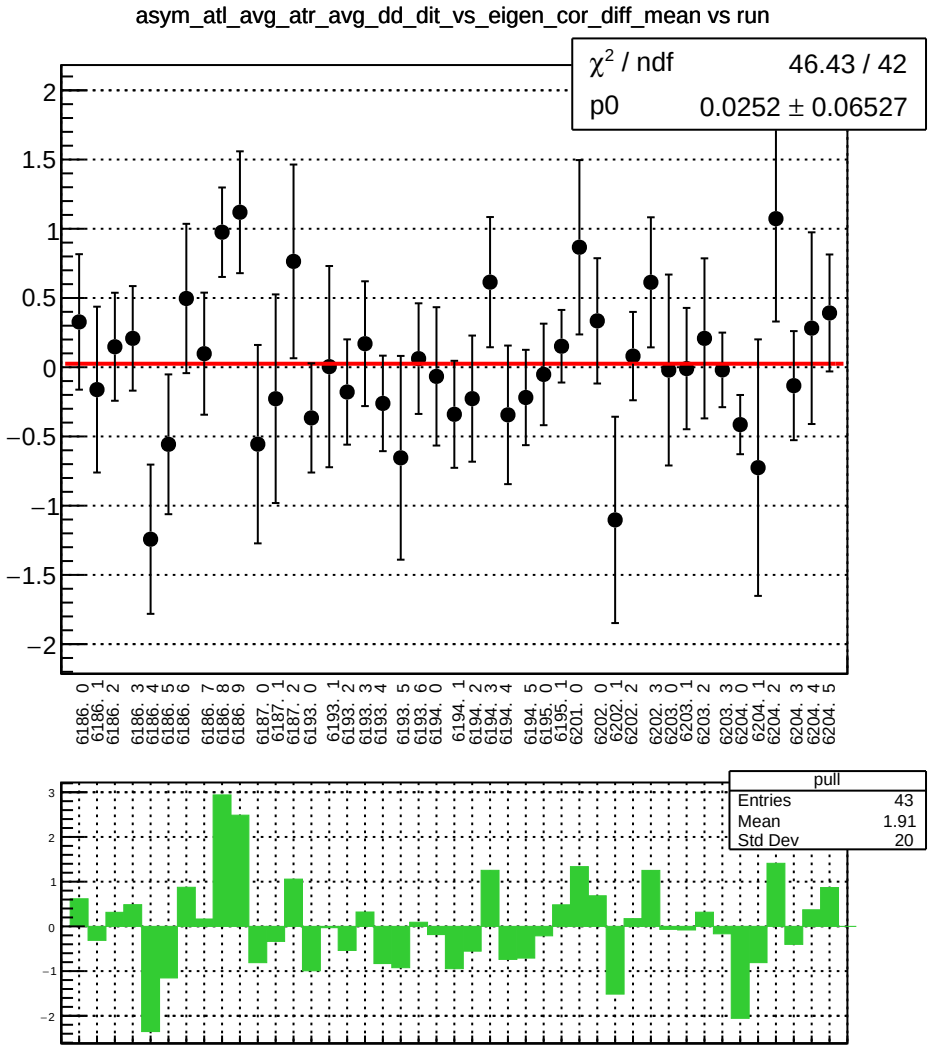

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1067 / 42
p0 1528 ± 1.663
1650
1600
1550
1500
1450
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

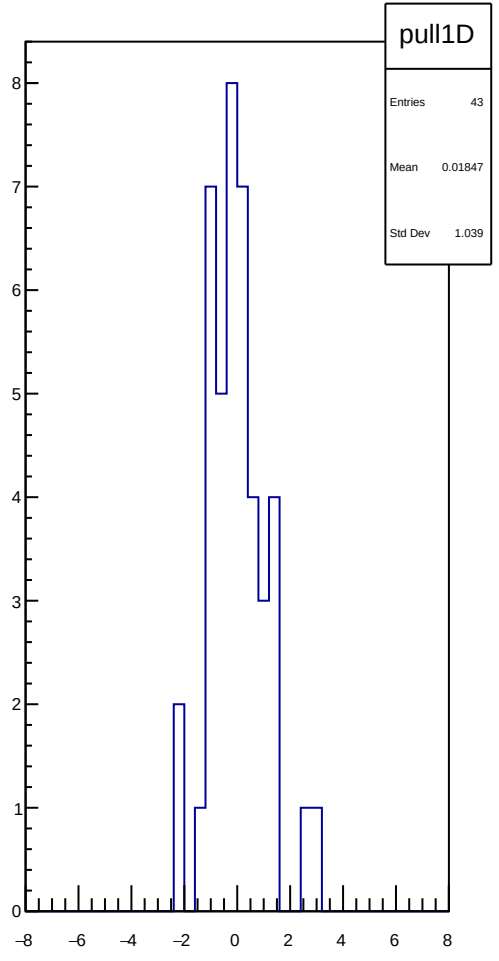

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 49.13 / 42
p0 −2.021e−13 ± 1.974e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 161.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01894
Std Dev 1.069
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

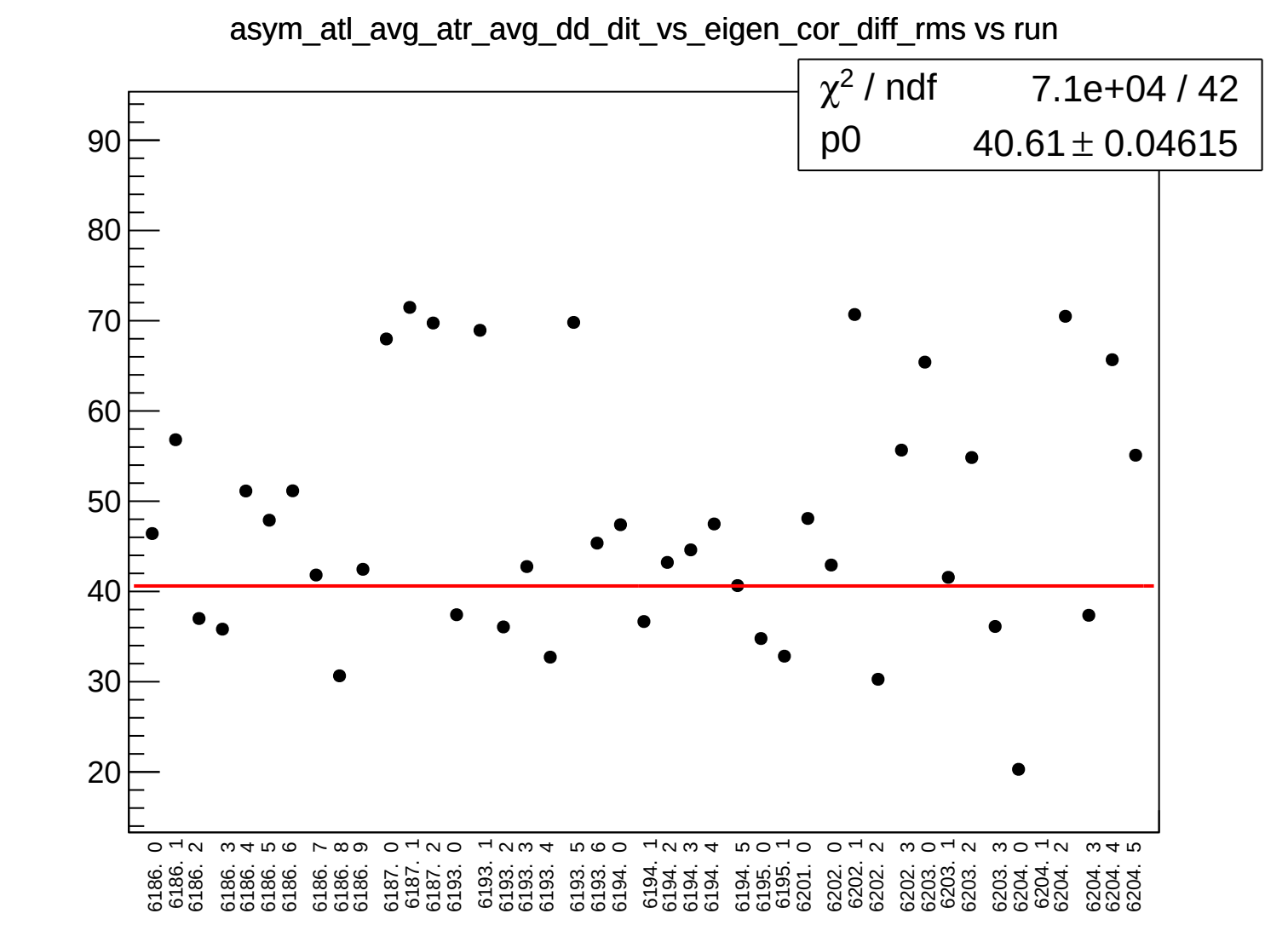

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.201e+05 / 42
p0 7.959e−11 ± 1.396e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 46.43 / 42
p0 0.0252 ± 0.06527
pull
Entries 43
Mean 1.91
Std Dev 20
pull1D
Entries 43
Mean 0.01847
Std Dev 1.039


asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.1e+04 / 42
p0 40.61 ± 0.04615
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.43 / 42
p0 0.0252 ± 0.06527
pull
Entries 43
Mean 1.91
Std Dev 20


pull1D
Entries 43
Mean 0.01847
Std Dev 1.039


asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.1e+04 / 42
p0 40.61 ± 0.04615
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
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6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
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6204. 2
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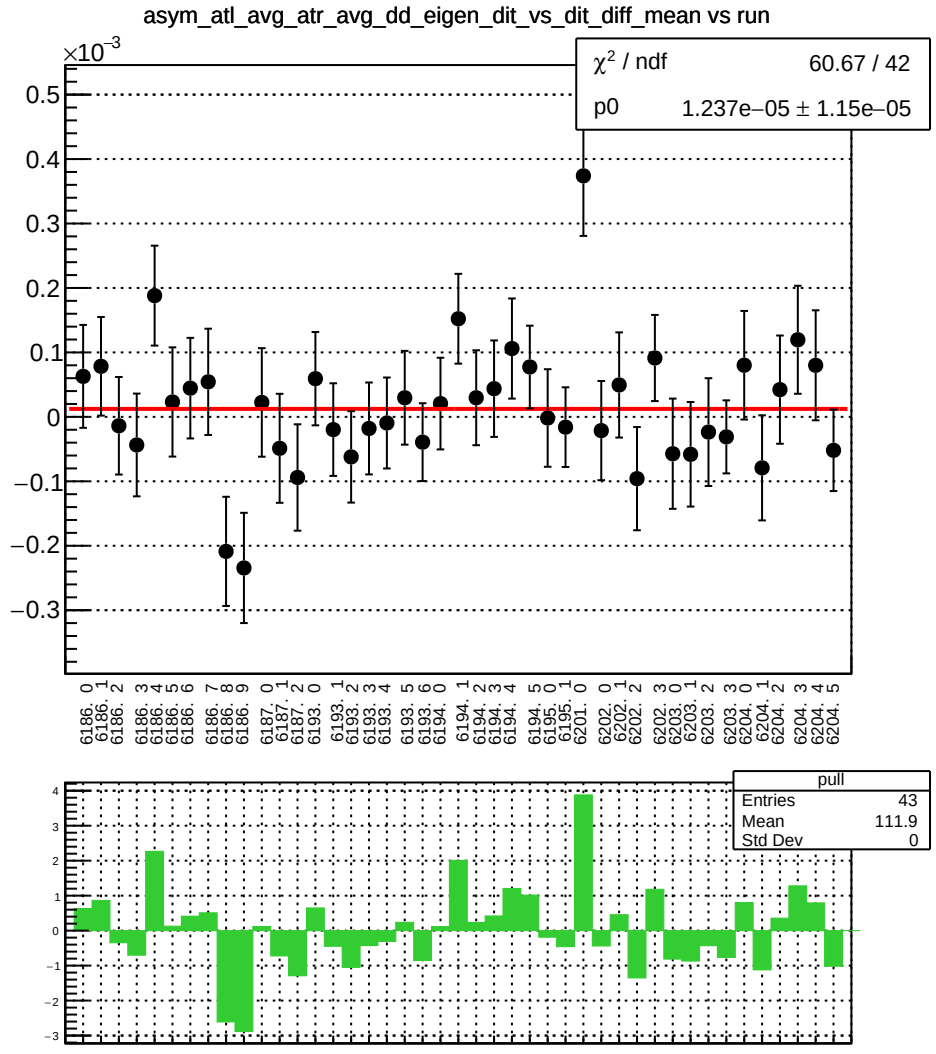
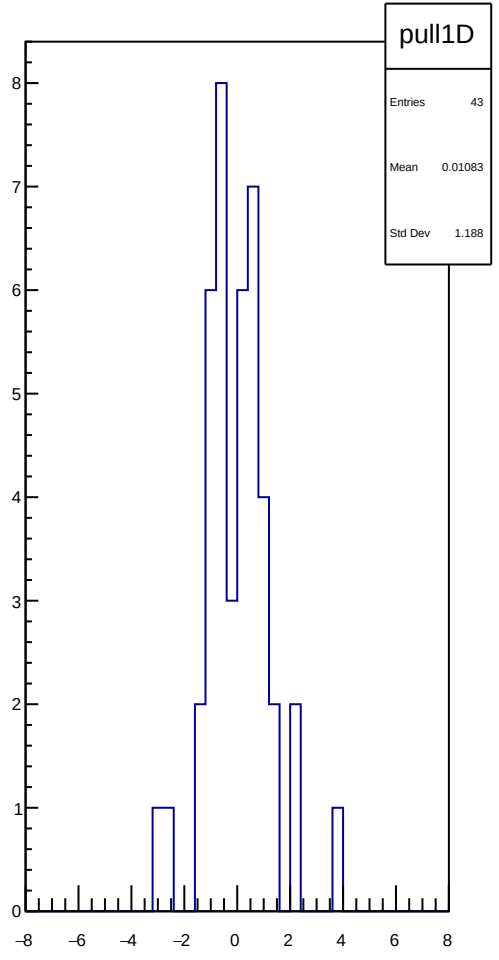
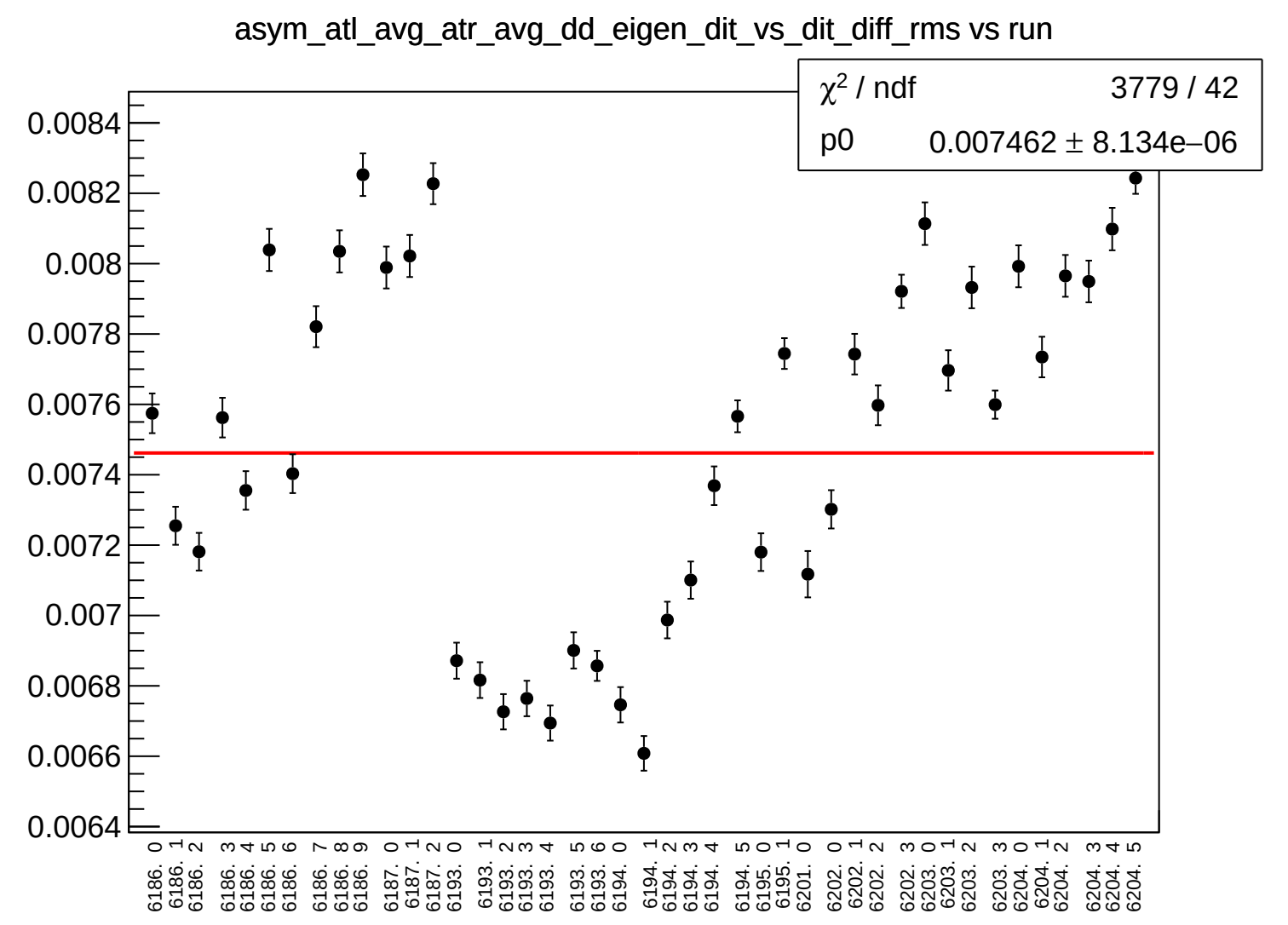
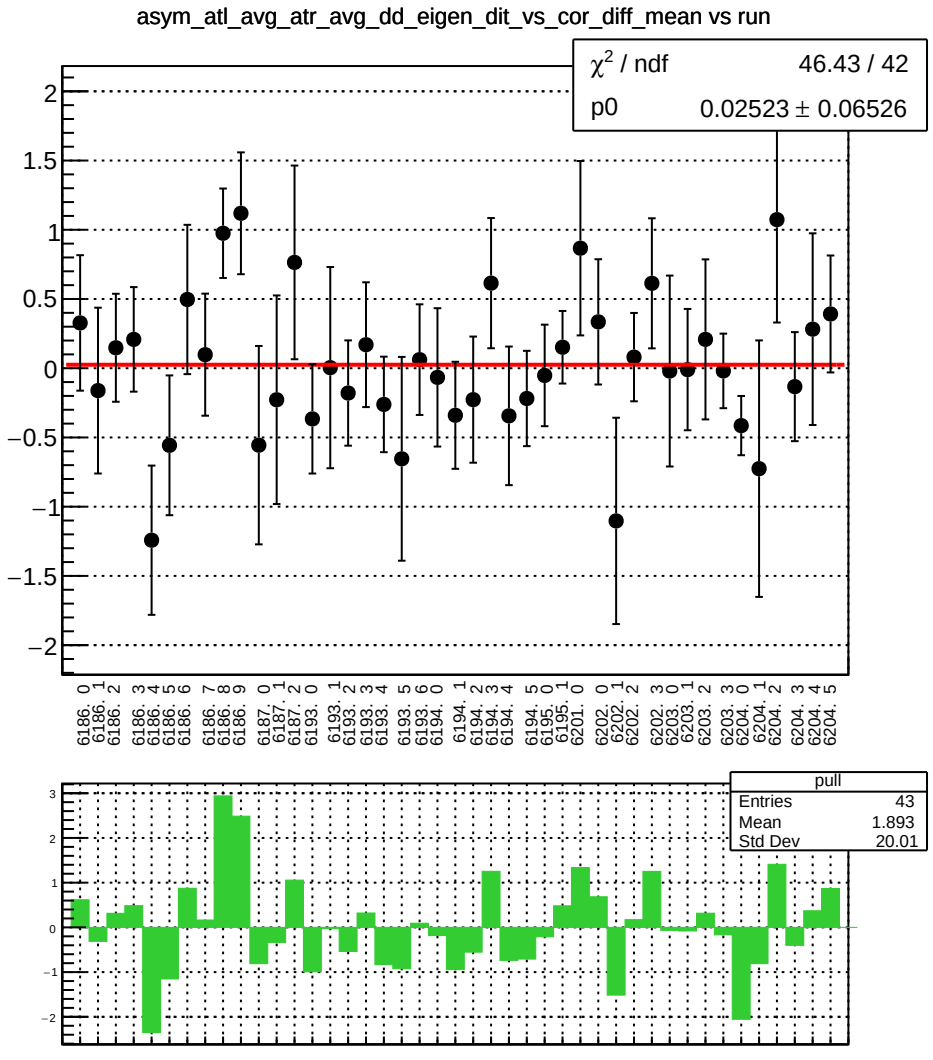
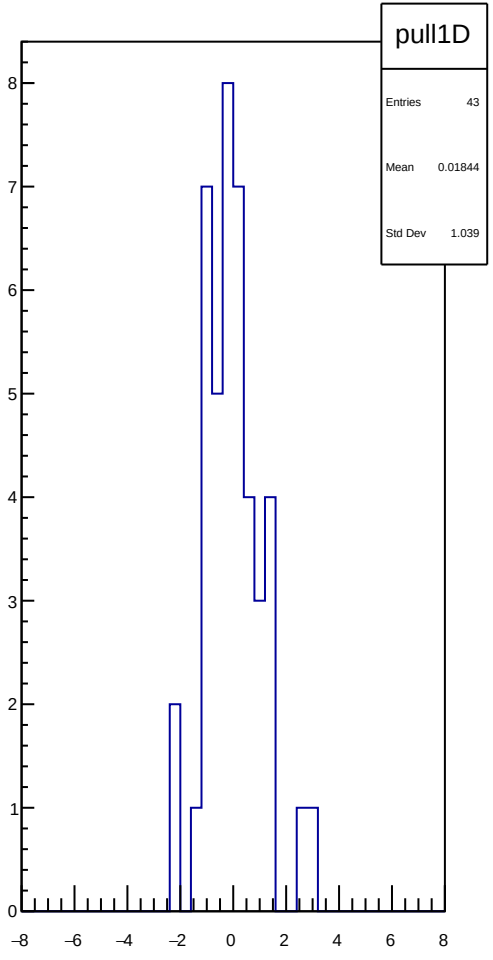
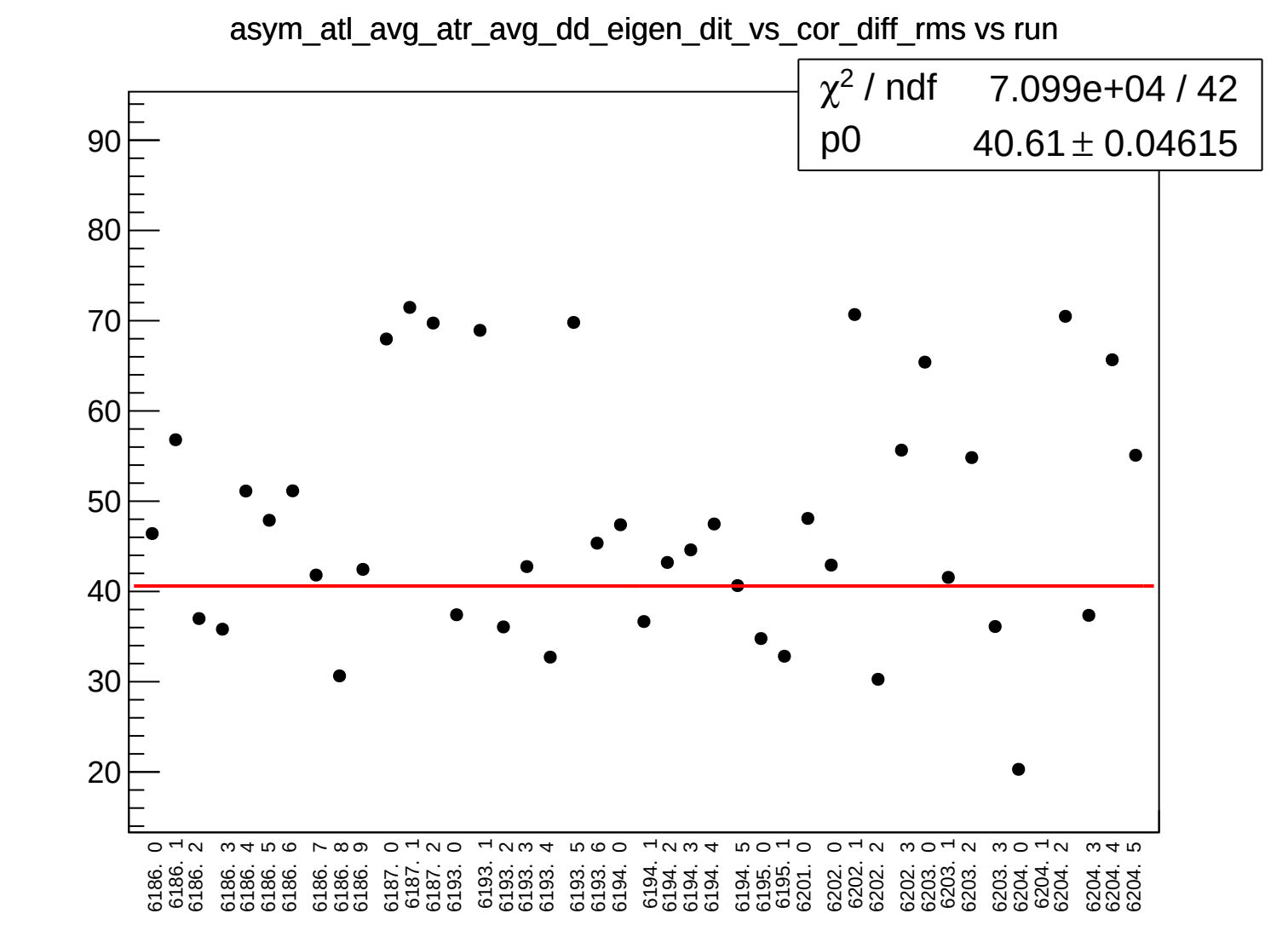

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 60.67 / 42
p0 1.237e−05 ± 1.15e−05
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 111.9
Std Dev 0
4
3
2
1
0
−1
−2
−3

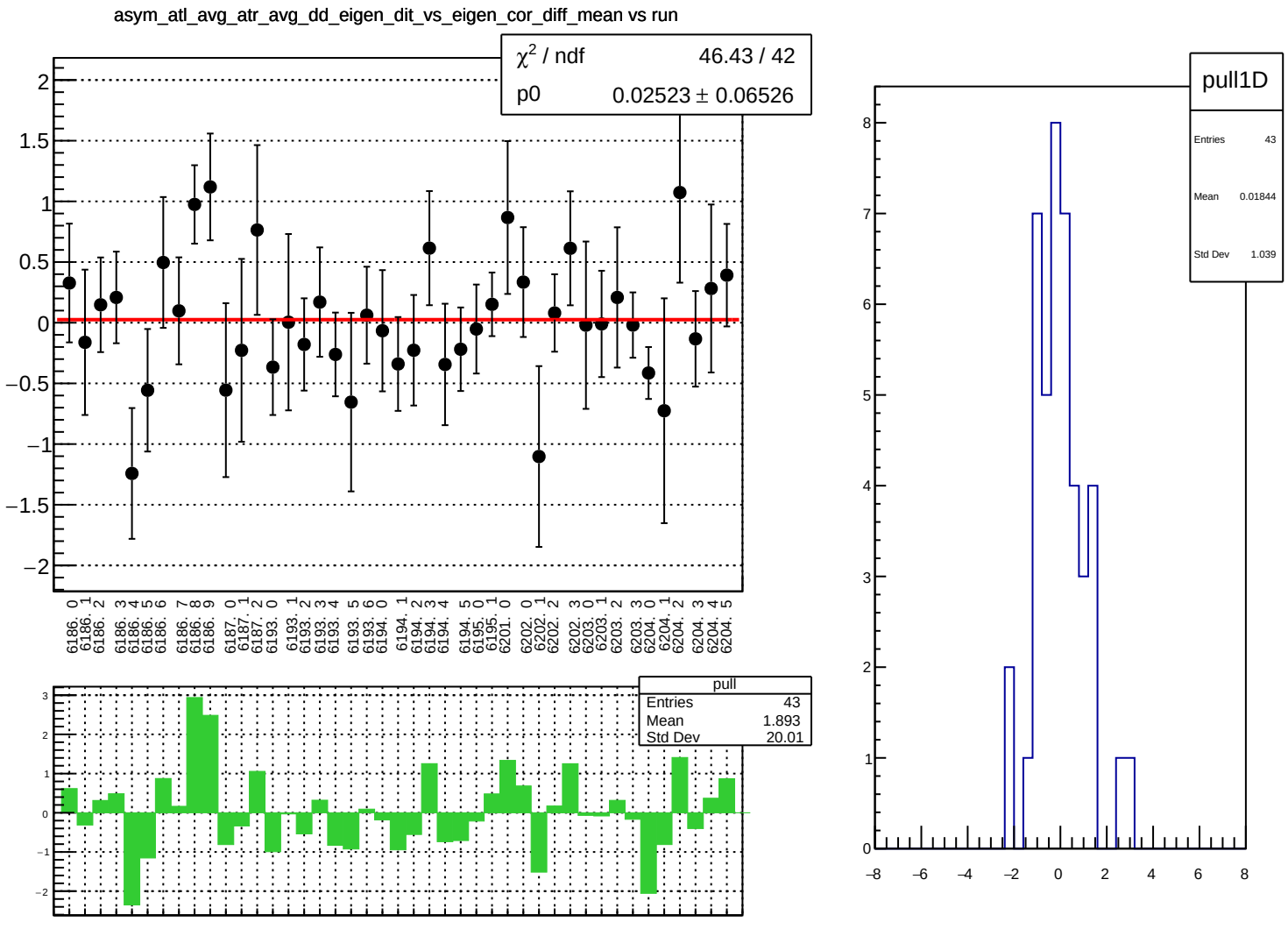

pull1D
Entries 43
Mean 0.01083
Std Dev 1.188
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

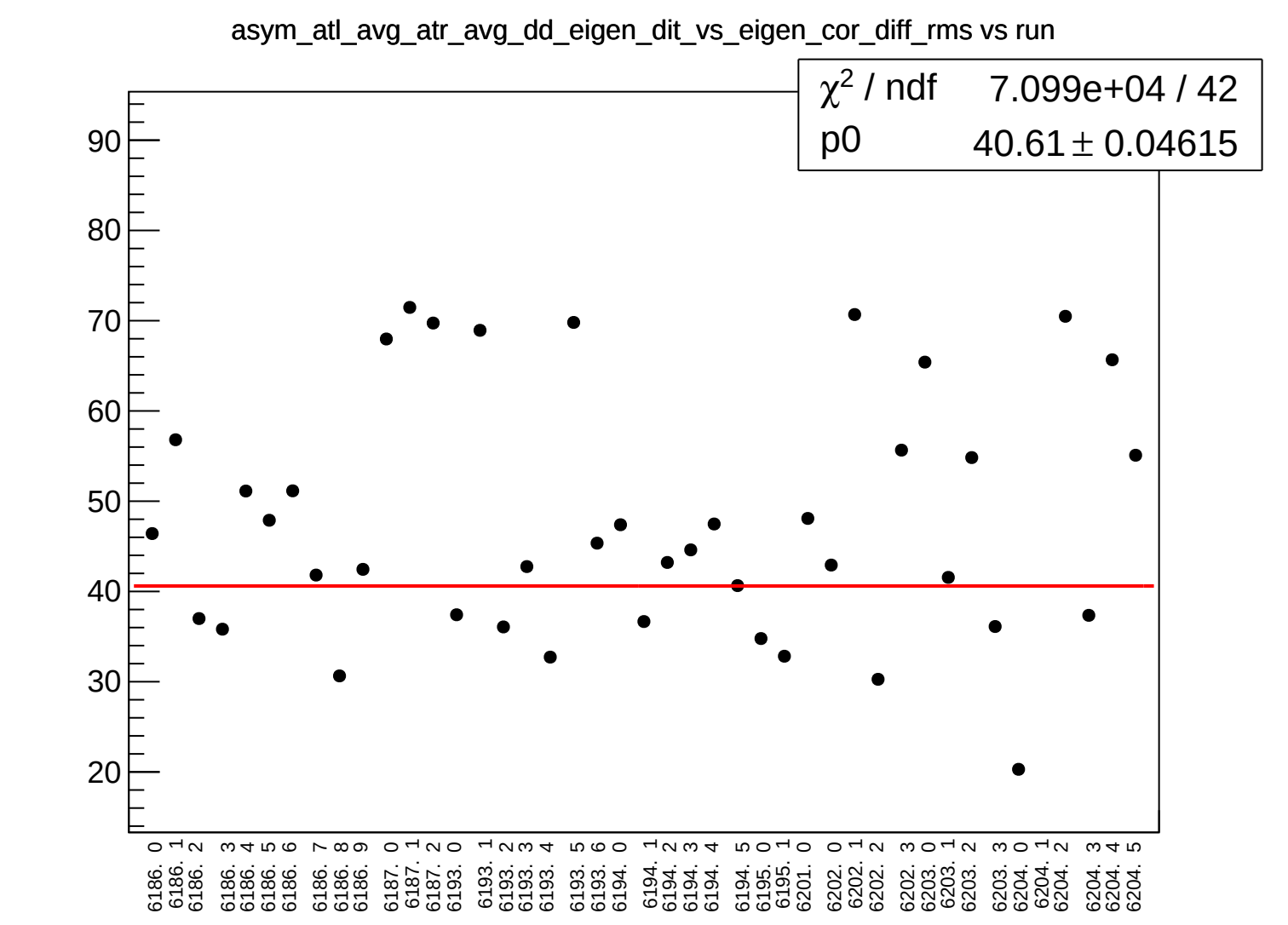

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3779 / 42
p0 0.007462 ± 8.134e−06
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

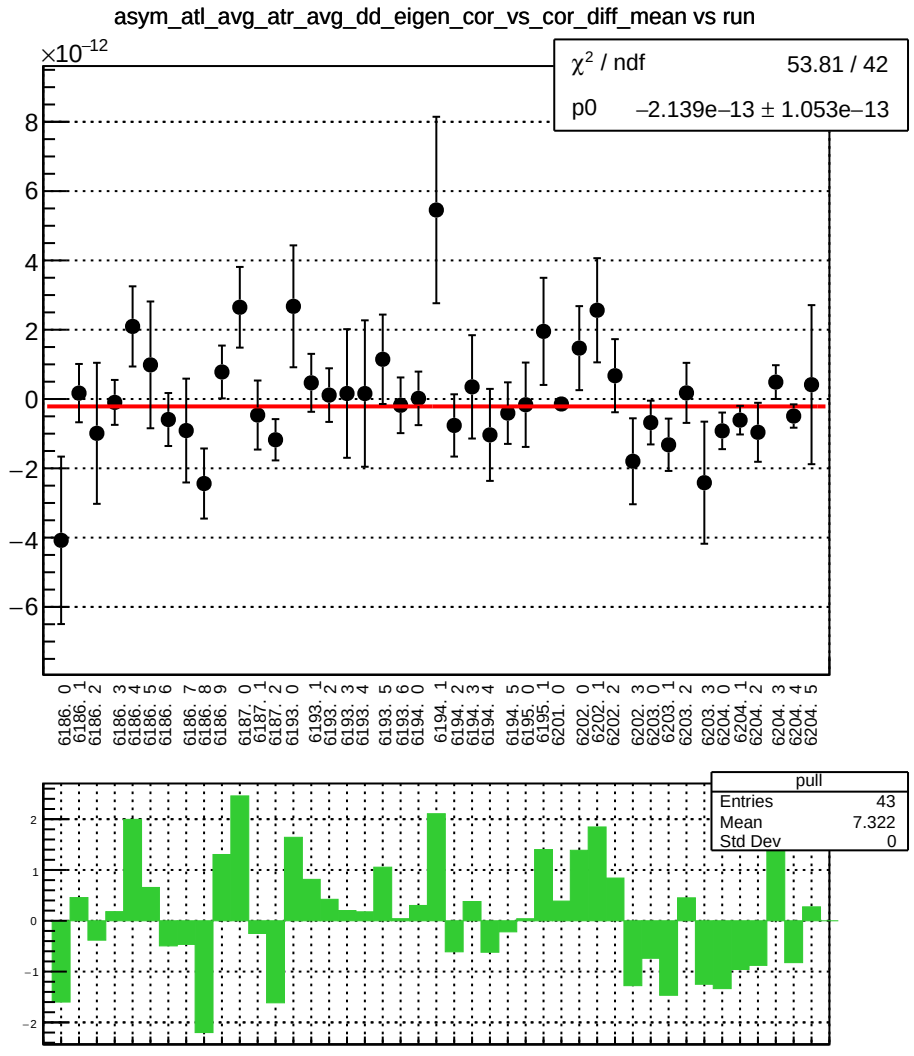

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.43 / 42
p0 0.02523 ± 0.06526
pull
Entries 43
Mean 1.893
Std Dev 20.01

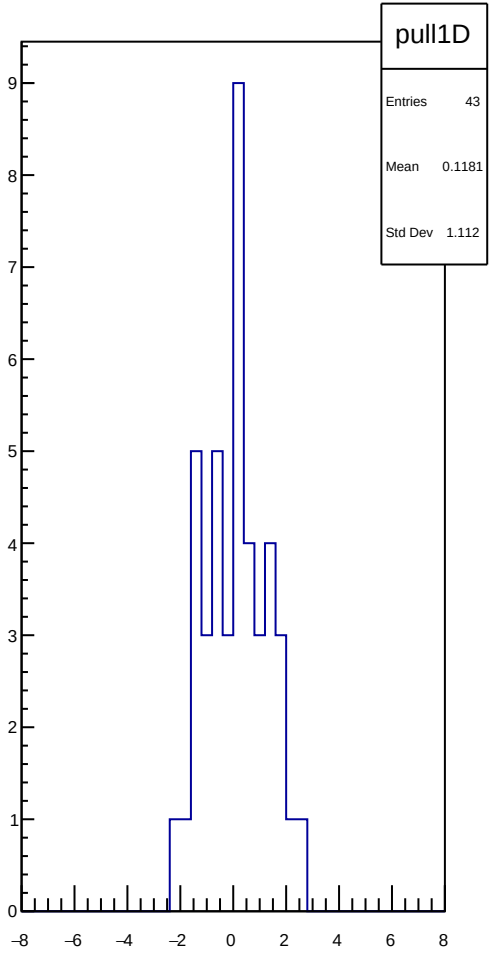

pull1D
Entries 43
Mean 0.01844
Std Dev 1.039

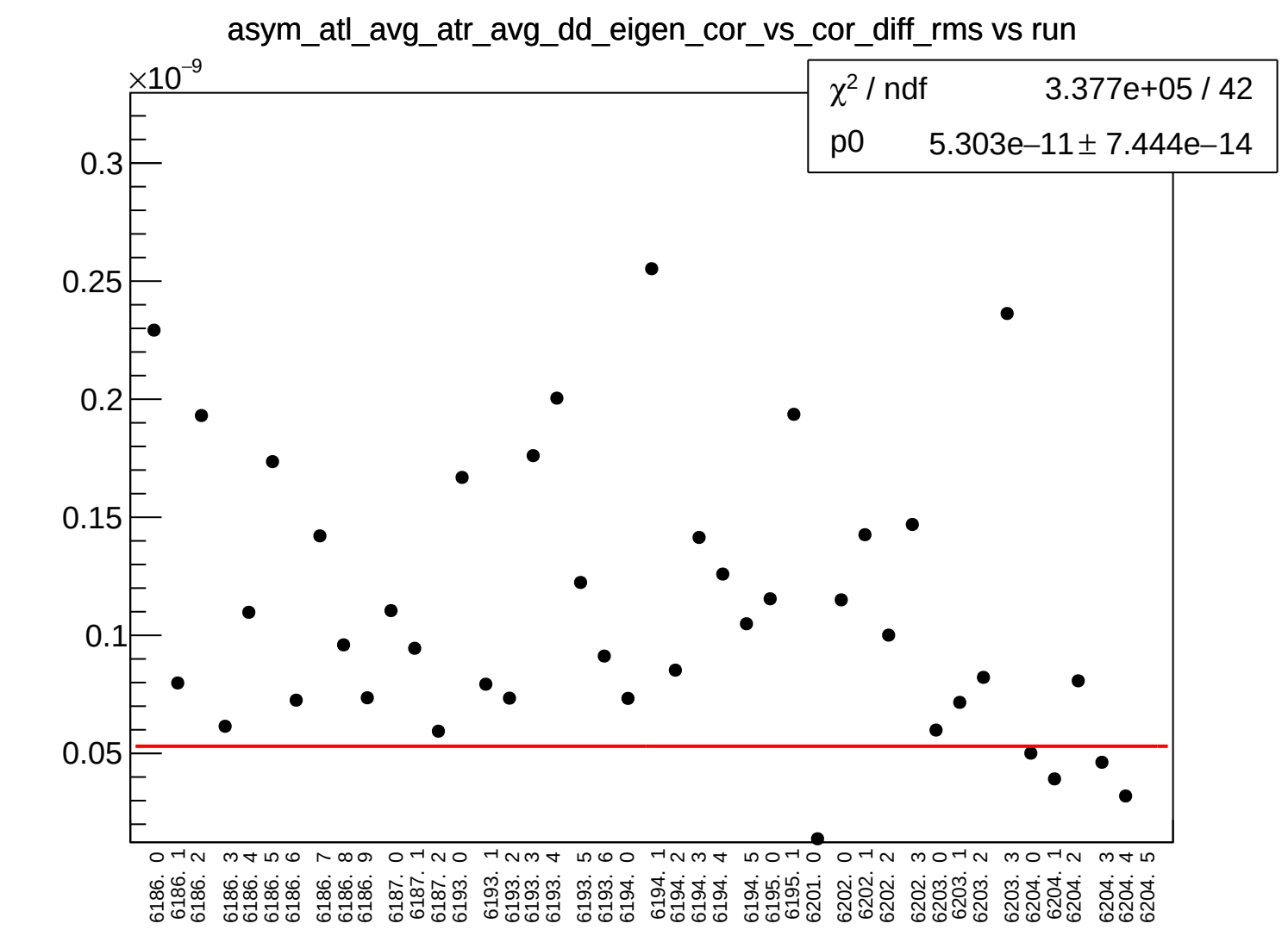

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.099e+04 / 42
p0 40.61 ± 0.04615
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

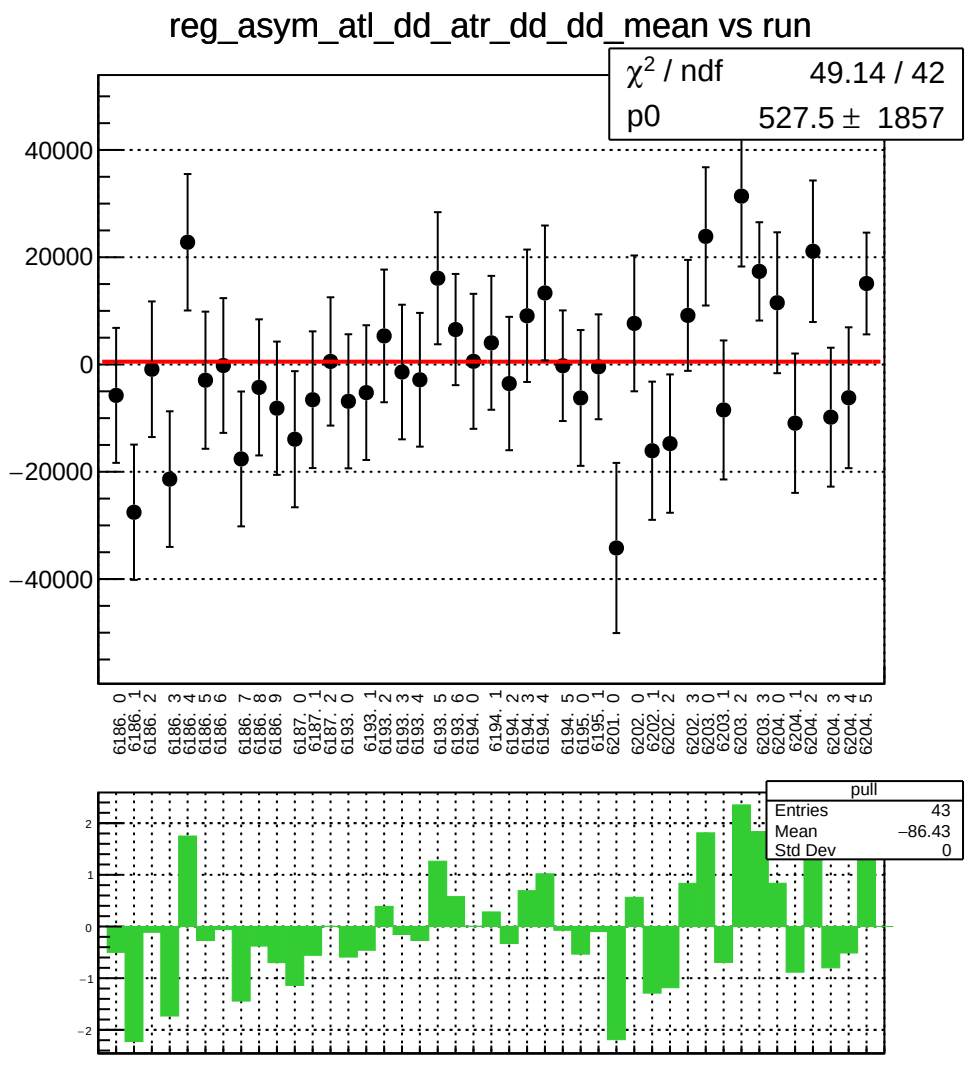

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.43 / 42
p0 0.02523 ± 0.06526
pull
Entries 43
Mean 1.893
Std Dev 20.01
pull1D
Entries 43
Mean 0.01844
Std Dev 1.039

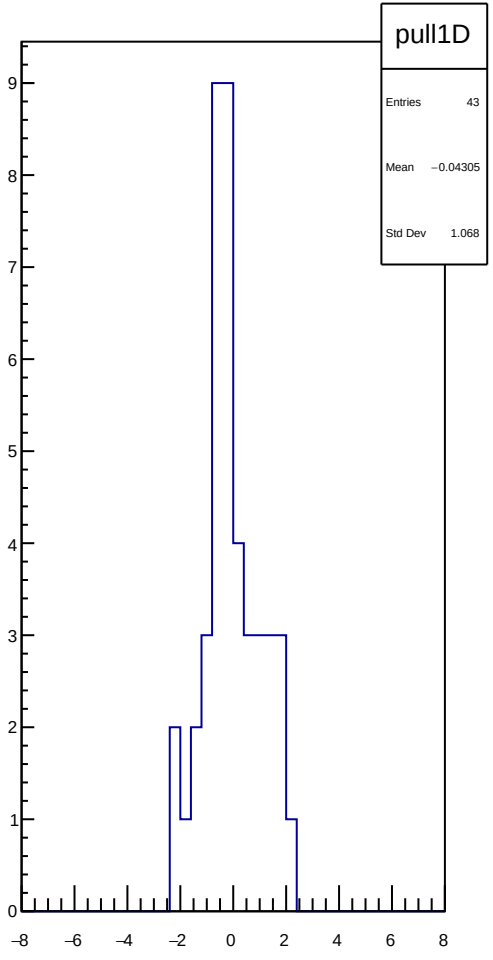

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.099e+04 / 42
p0 40.61 ± 0.04615
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

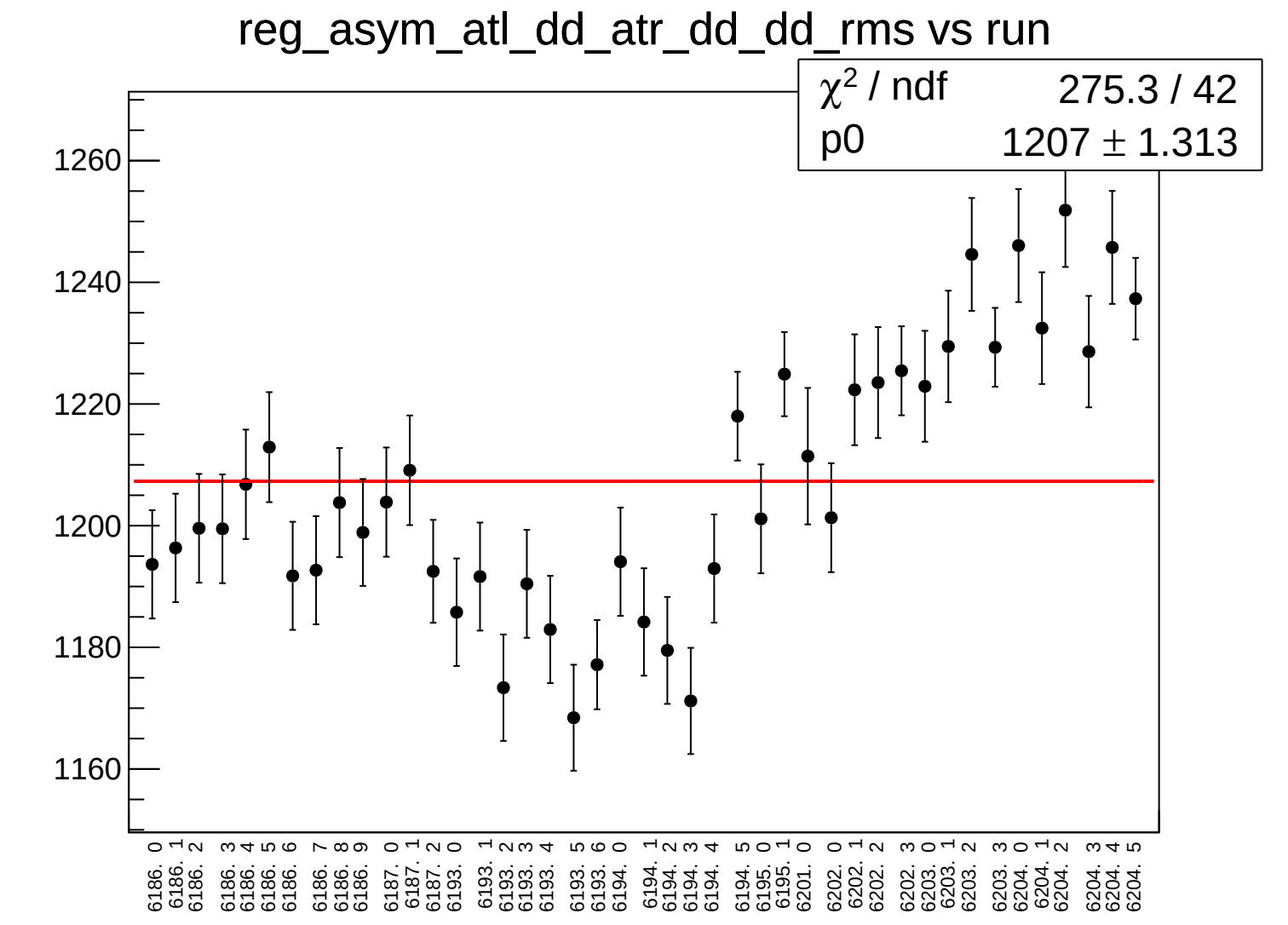

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 53.81 / 42
p0 −2.139e−13 ± 1.053e−13
pull
Entries 43
Mean 7.322
Std Dev 0

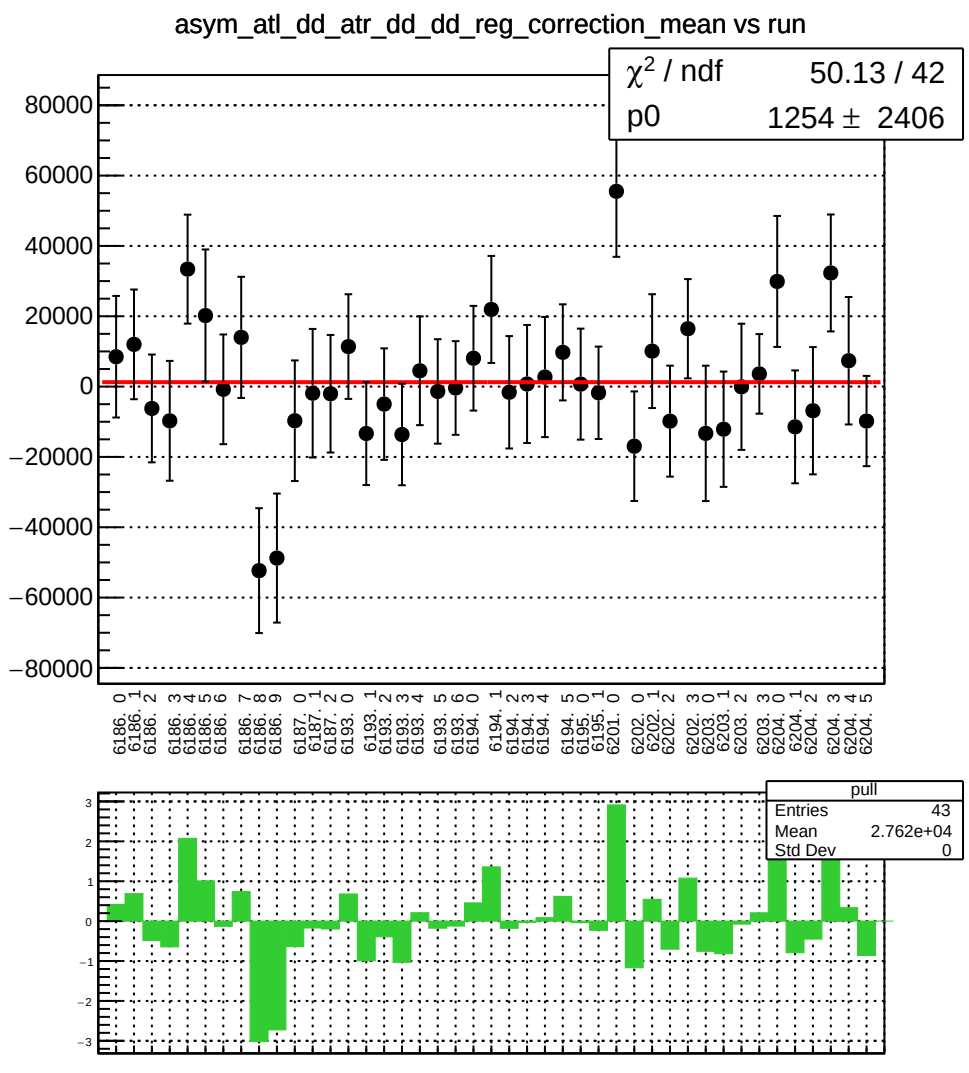

pull1D
Entries 43
Mean 0.1181
Std Dev 1.112

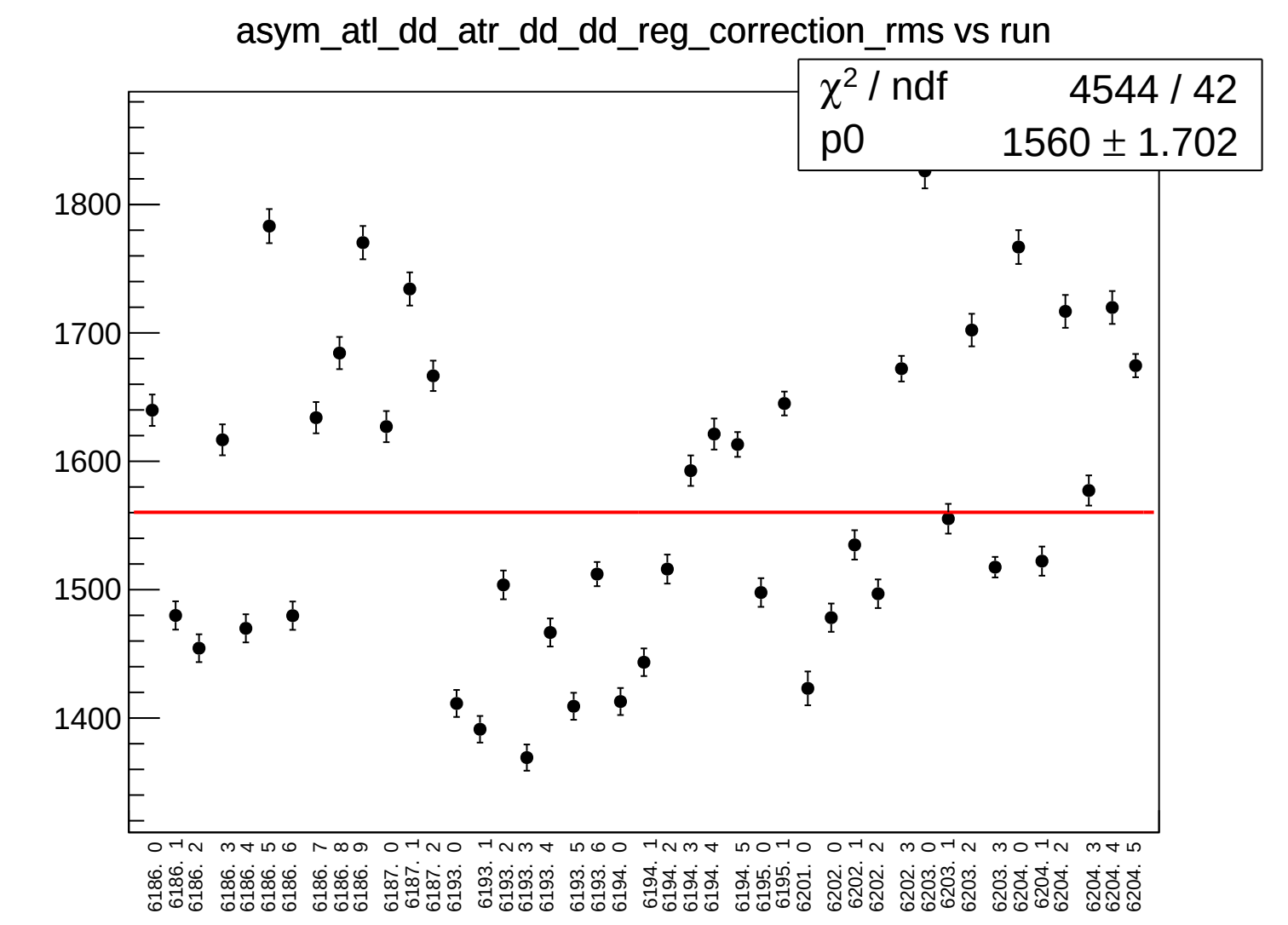

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.377e+05 / 42
p0 5.303e−11 ± 7.444e−14
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

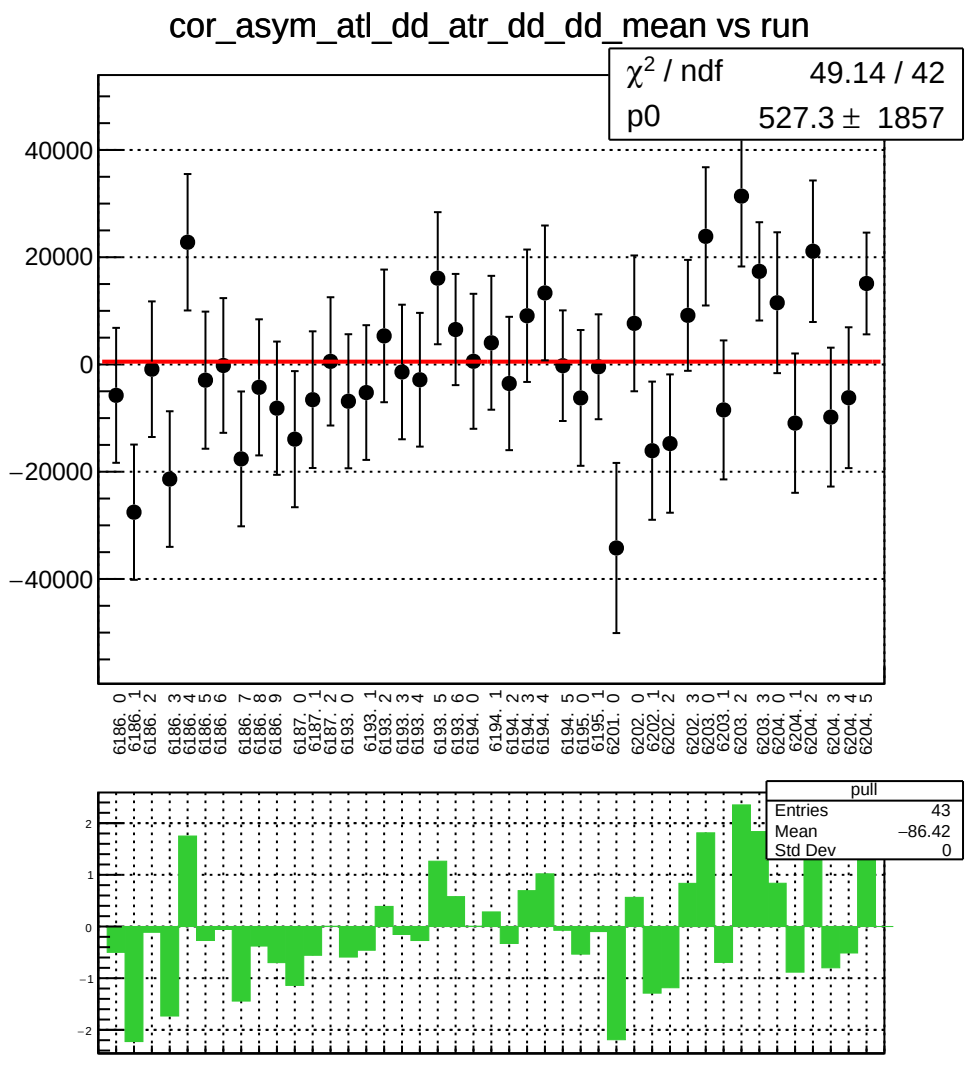

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 49.14 / 42
p0 527.5 ± 1857
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −86.43
Std Dev 0
2
1
0
−1
−2

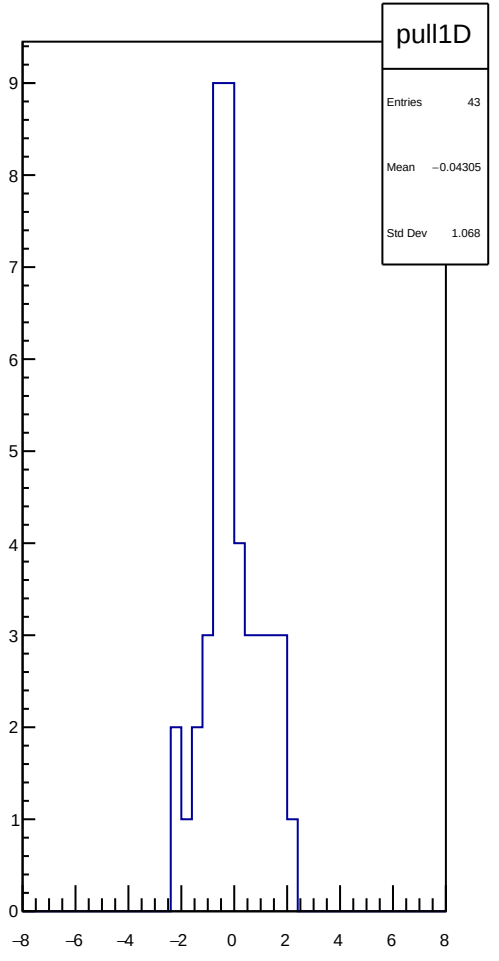

pull1D
Entries 43
Mean −0.04305
Std Dev 1.068
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

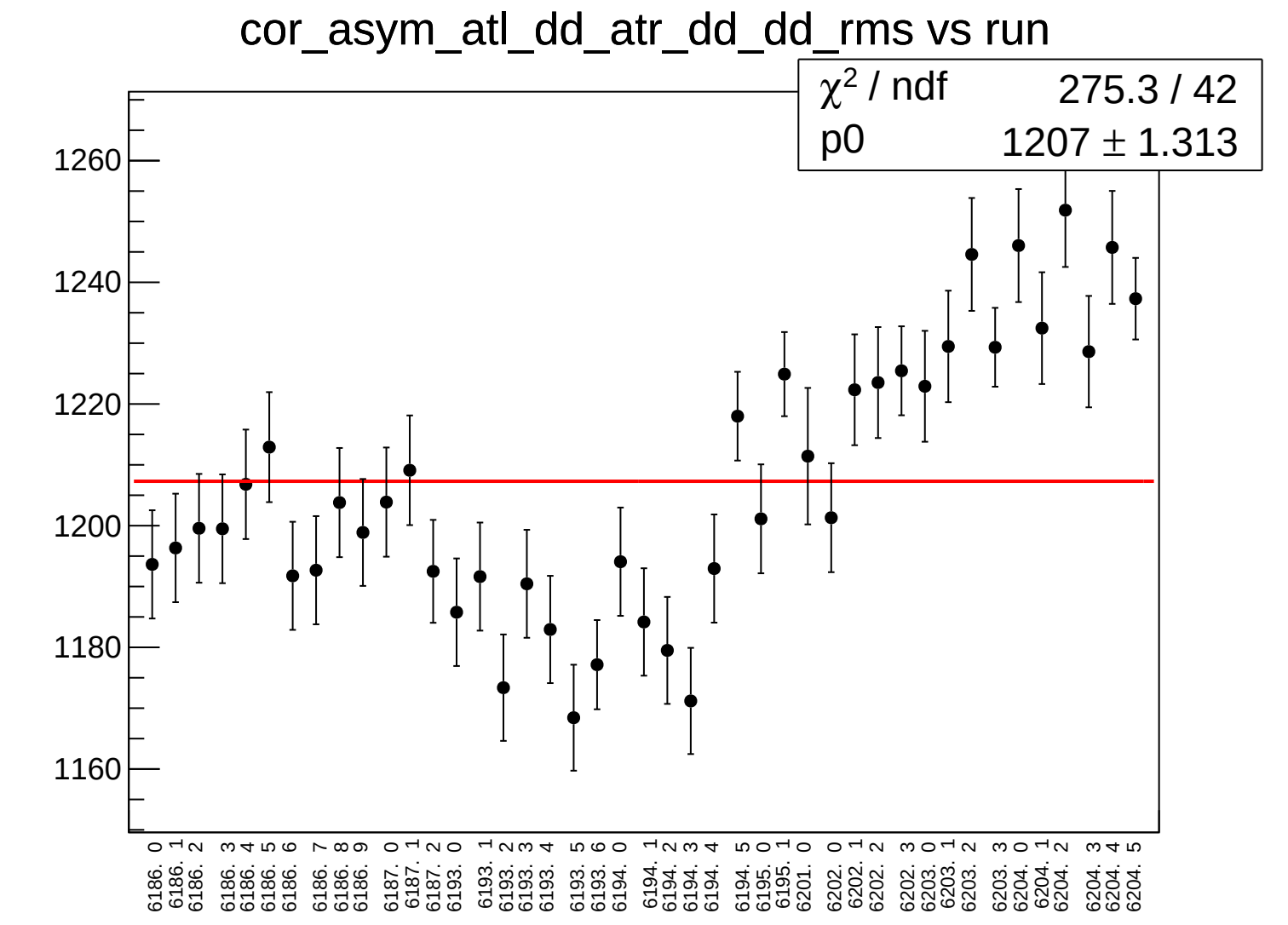

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 275.3 / 42
p0 1207 ± 1.313
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

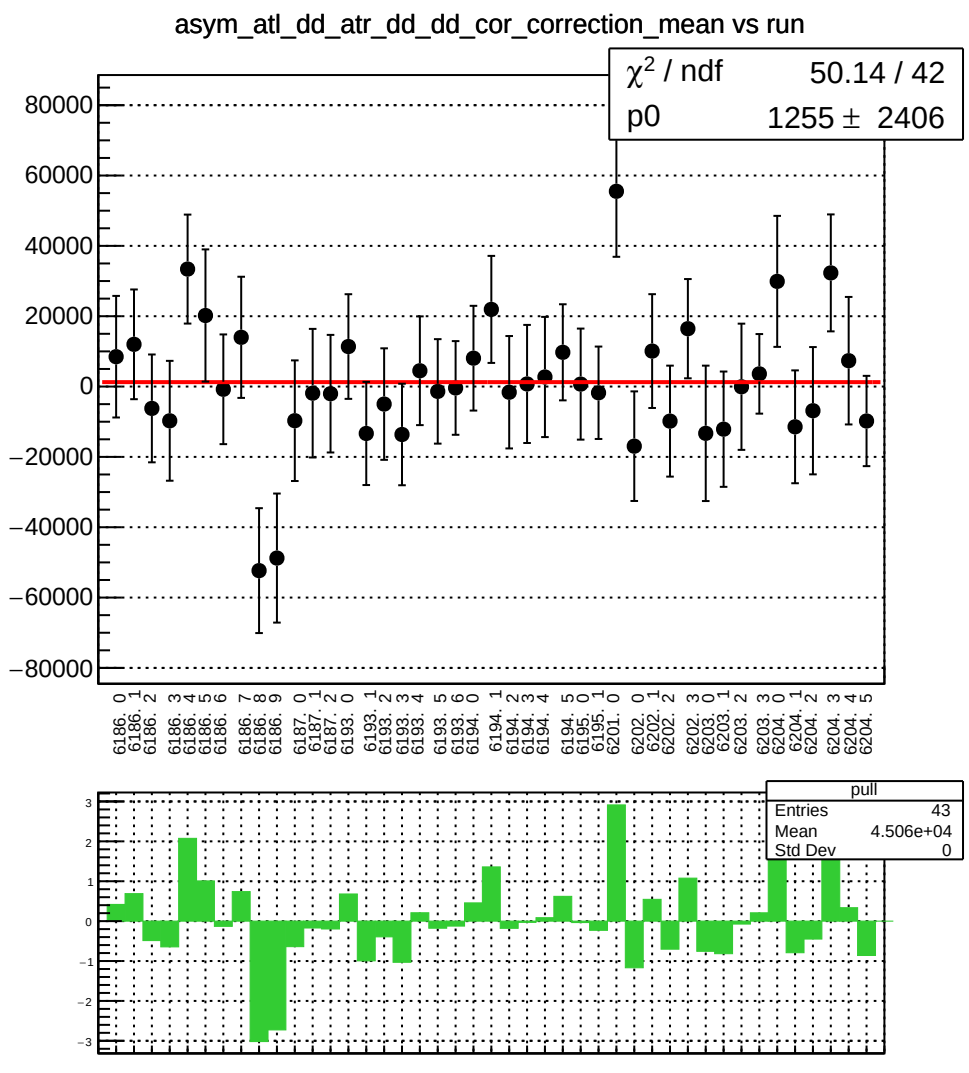

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 50.13 / 42
p0 1254 ± 2406
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2.762e+04
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 5.128e−05
Std Dev 1.08
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

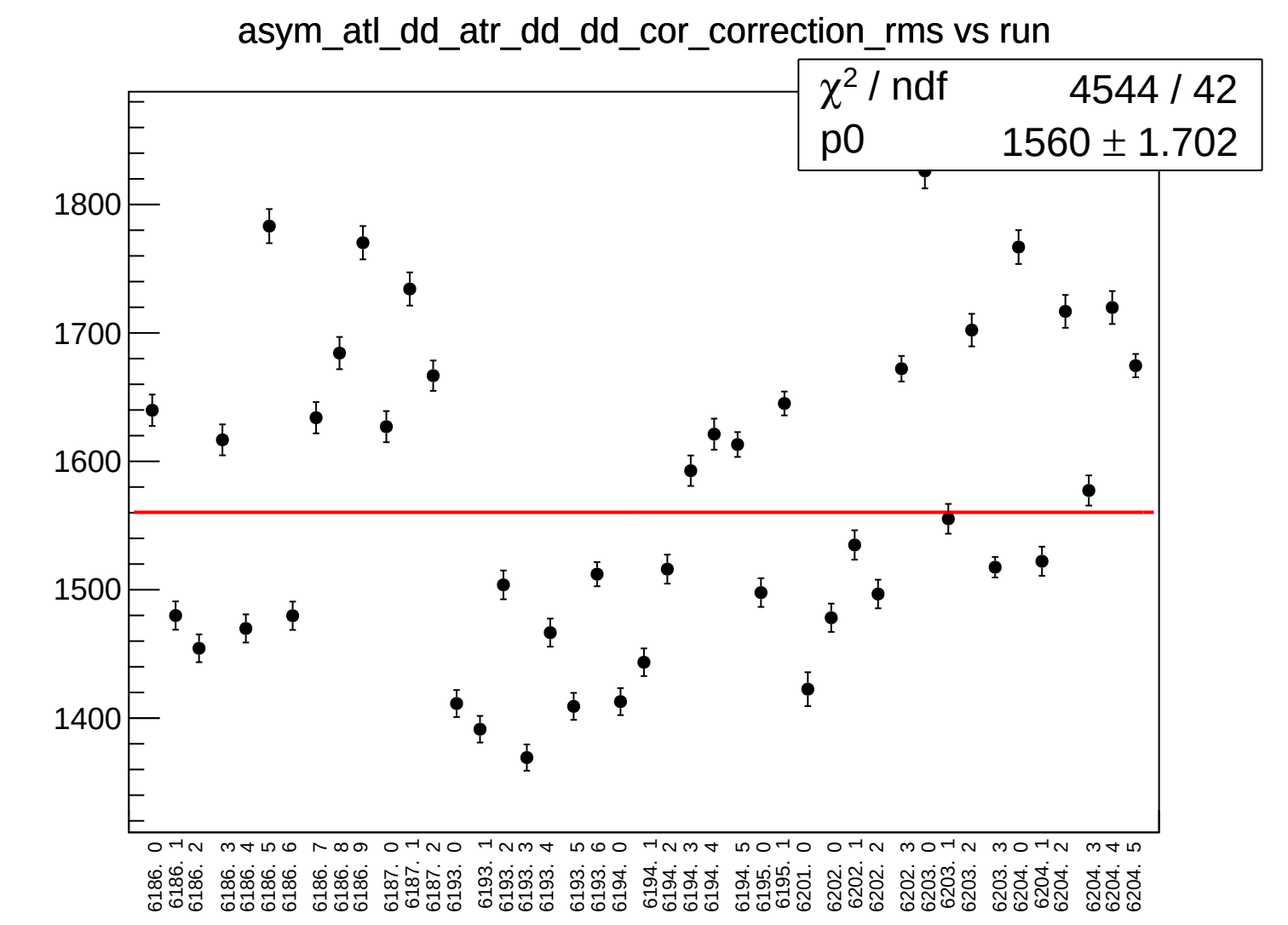

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 4544 / 42
p0 1560 ± 1.702
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

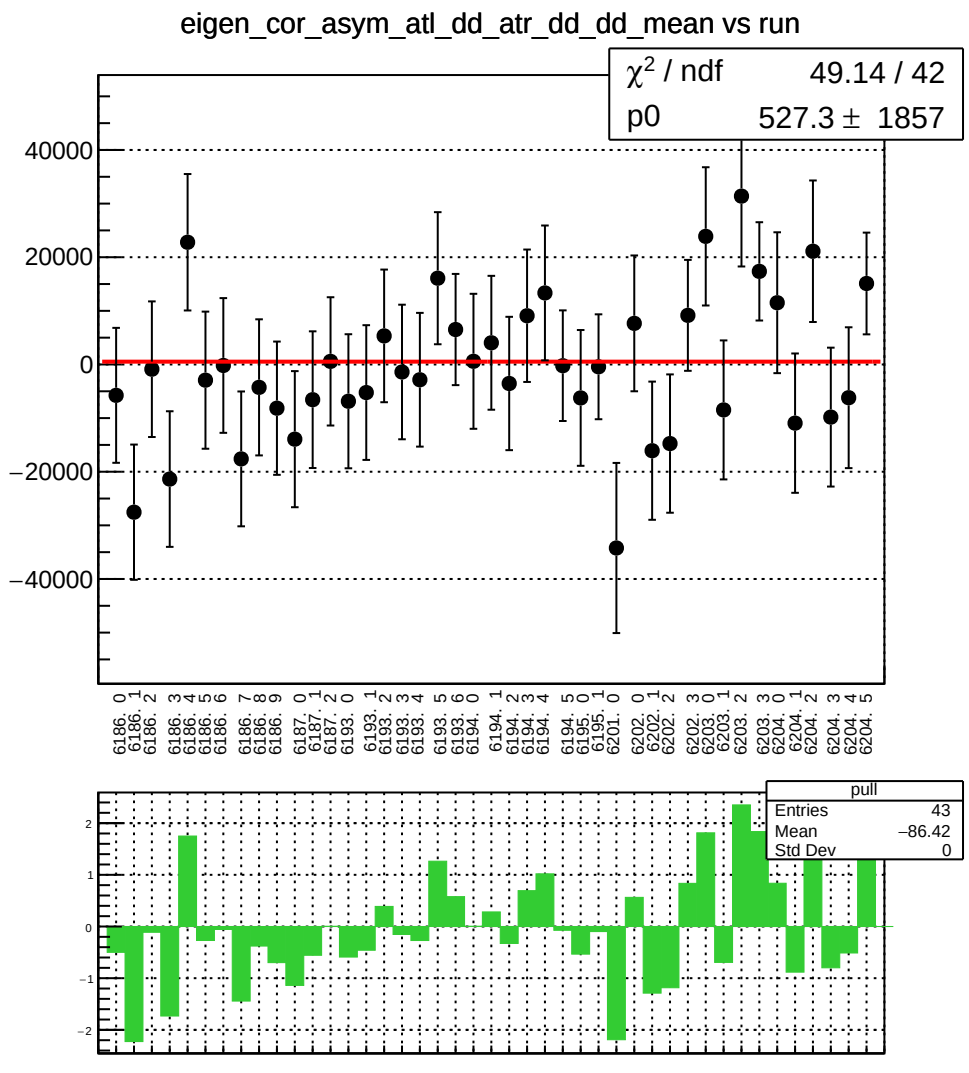

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 49.14 / 42
p0 527.3 ± 1857
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −86.42
Std Dev 0
2
1
0
−1
−2

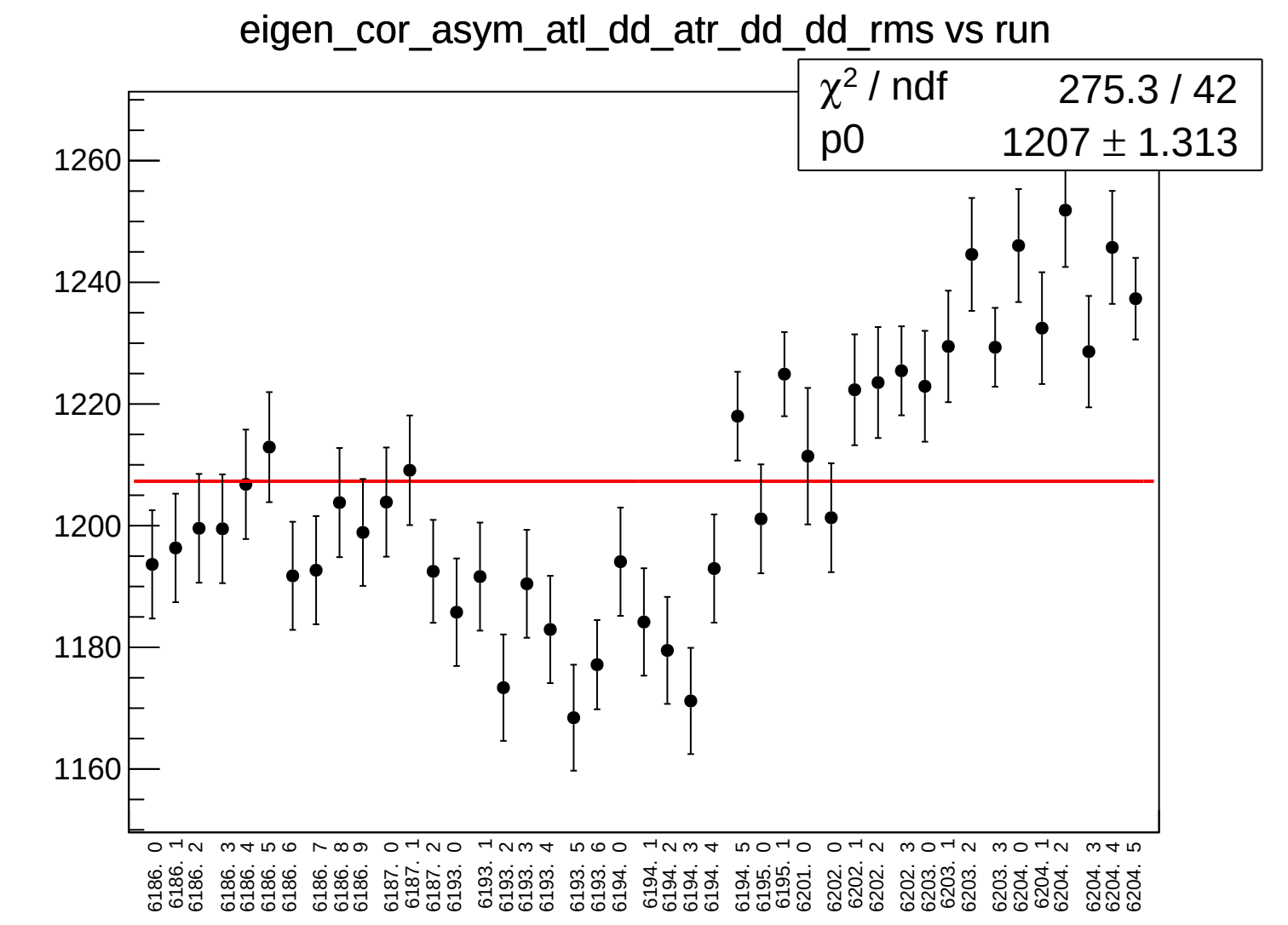

pull1D
Entries 43
Mean −0.04305
Std Dev 1.068
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

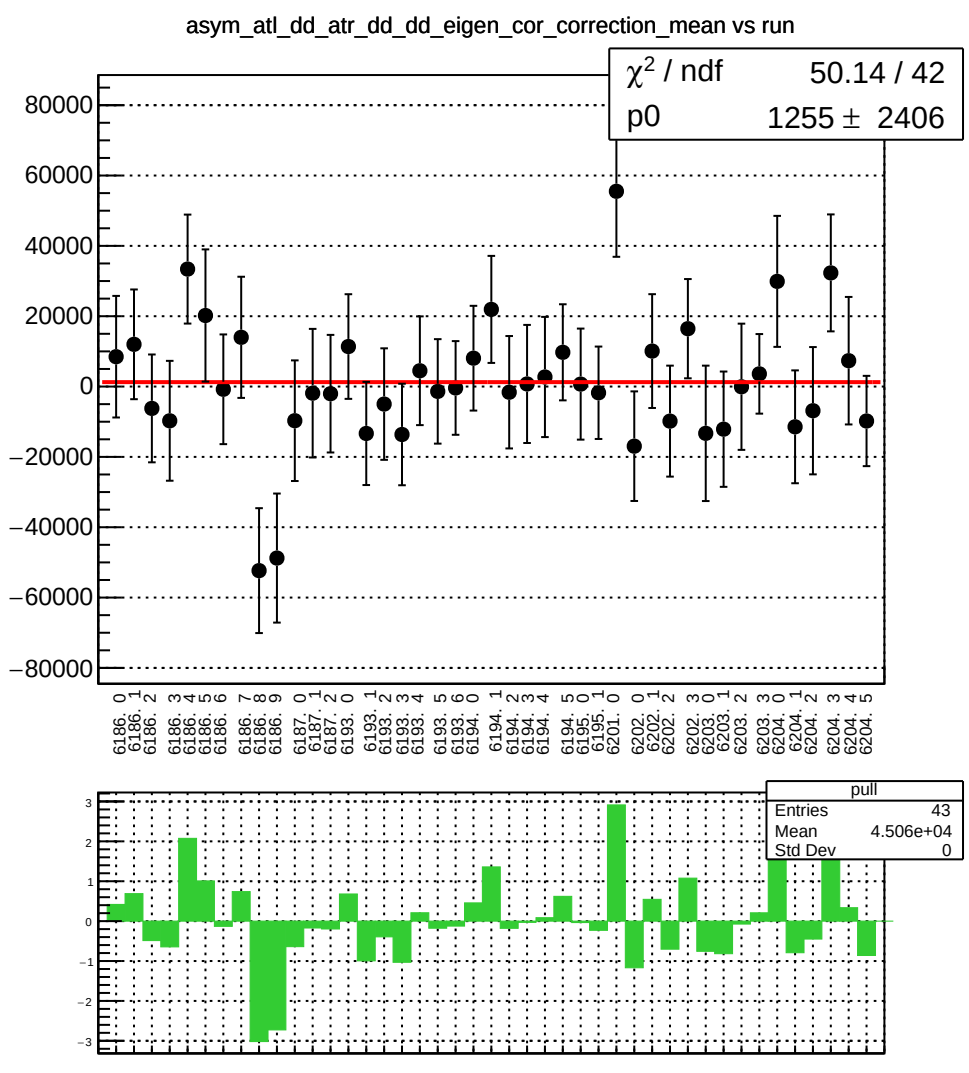

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 275.3 / 42
p0 1207 ± 1.313
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

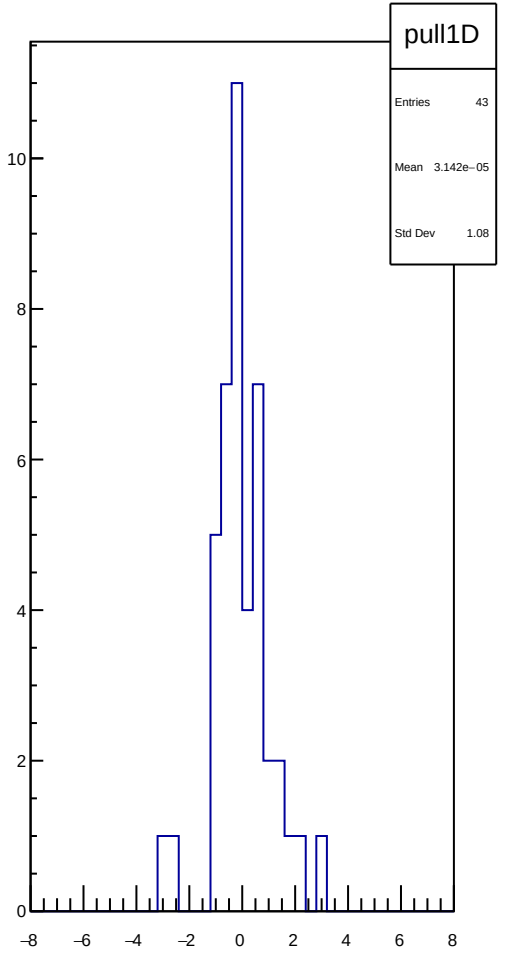

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 50.14 / 42
p0 1255 ± 2406
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.506e+04
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 3.142e−05
Std Dev 1.08
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

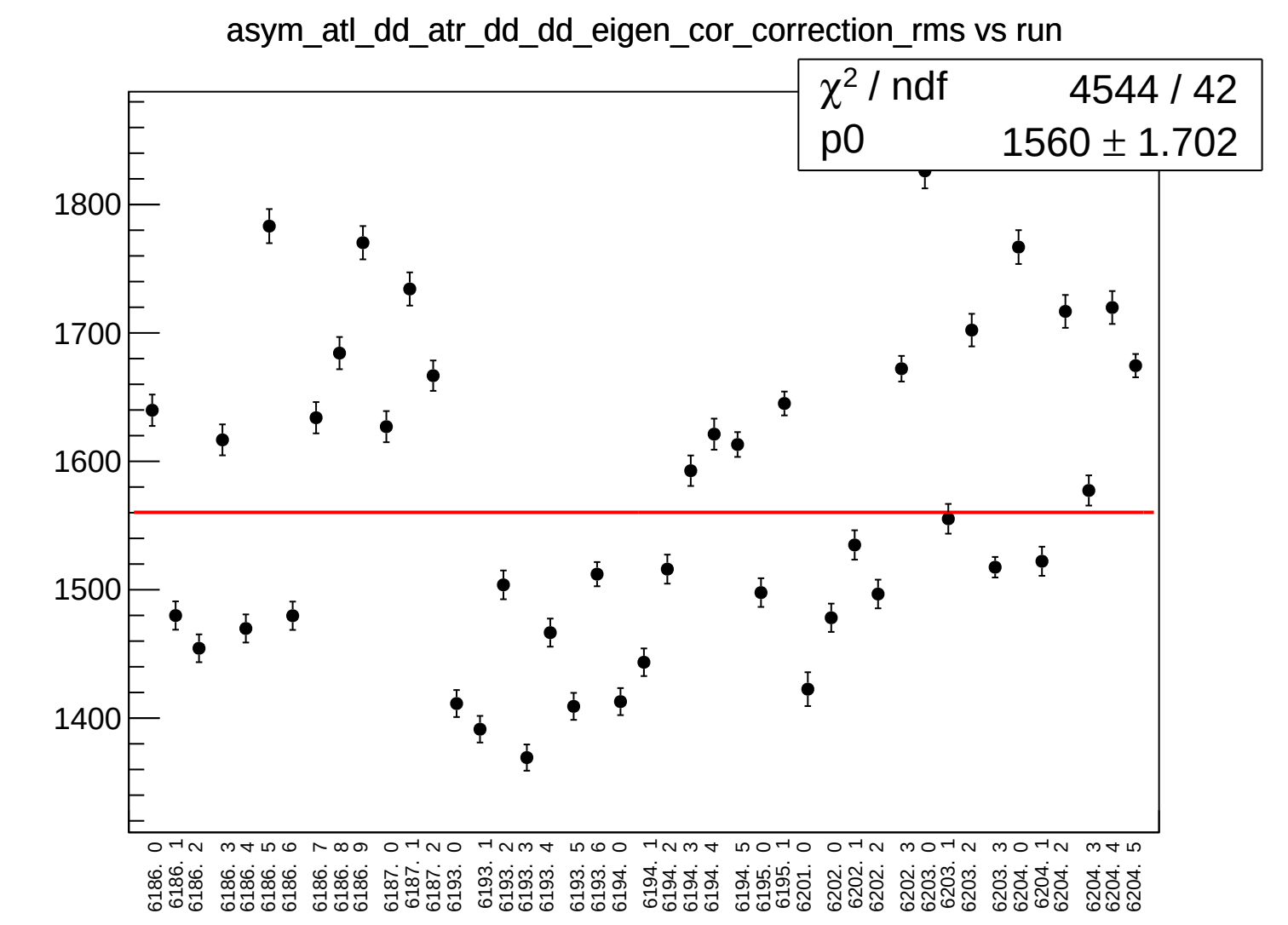

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 4544 / 42
p0 1560 ± 1.702
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

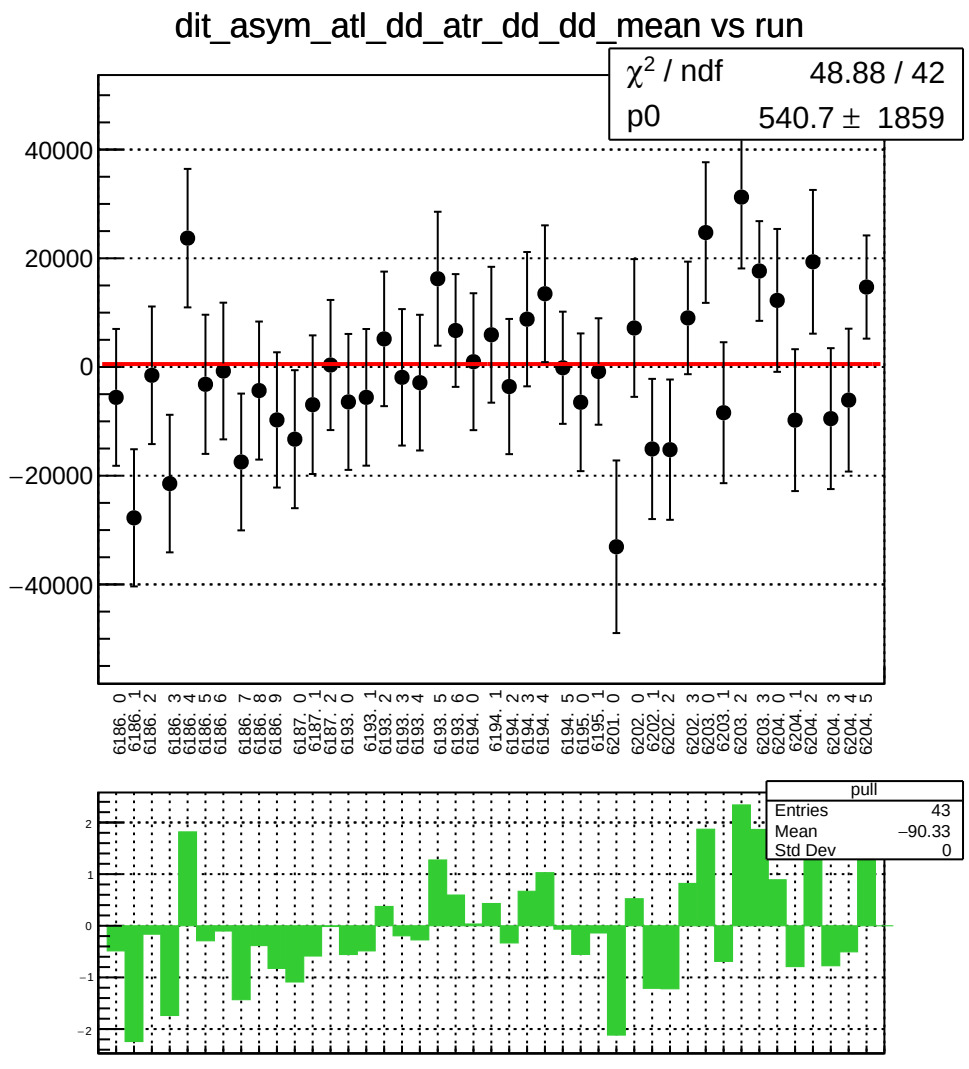

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 49.14 / 42
p0 527.3 ± 1857
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −86.42
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04305
Std Dev 1.068
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

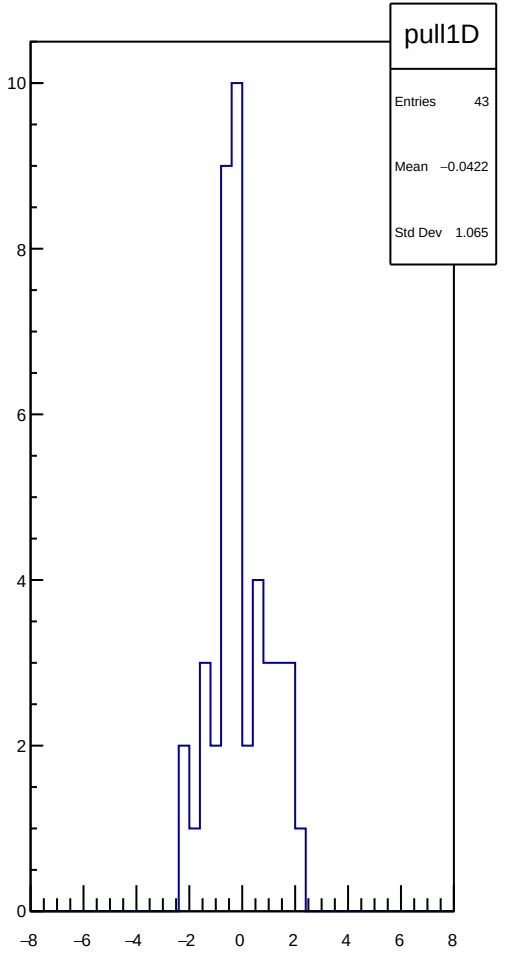

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 275.3 / 42
p0 1207 ± 1.313
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

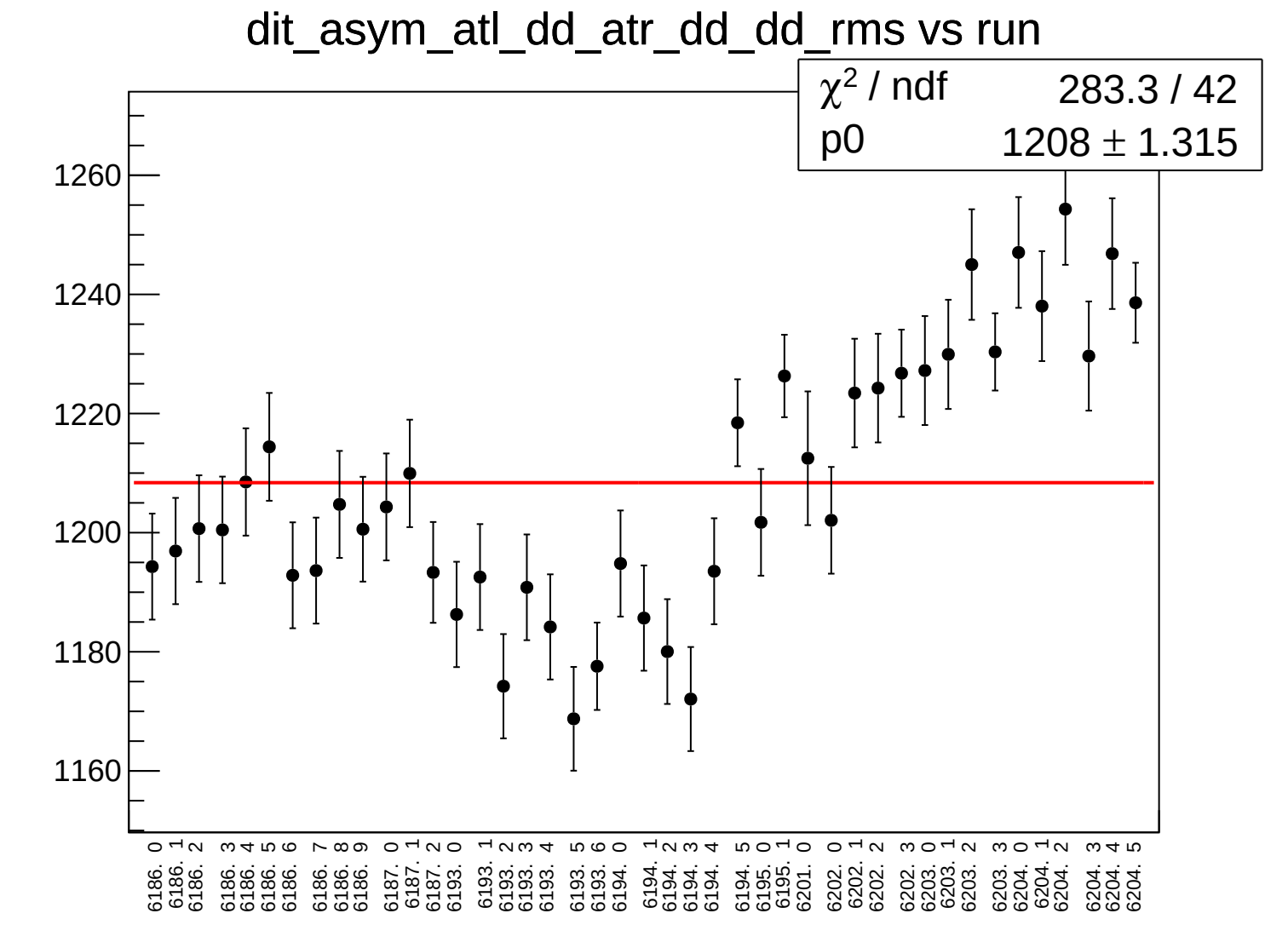

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 50.14 / 42
p0 1255 ± 2406
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.506e+04
Std Dev 0
3
2
1
0
−1
−2
−3

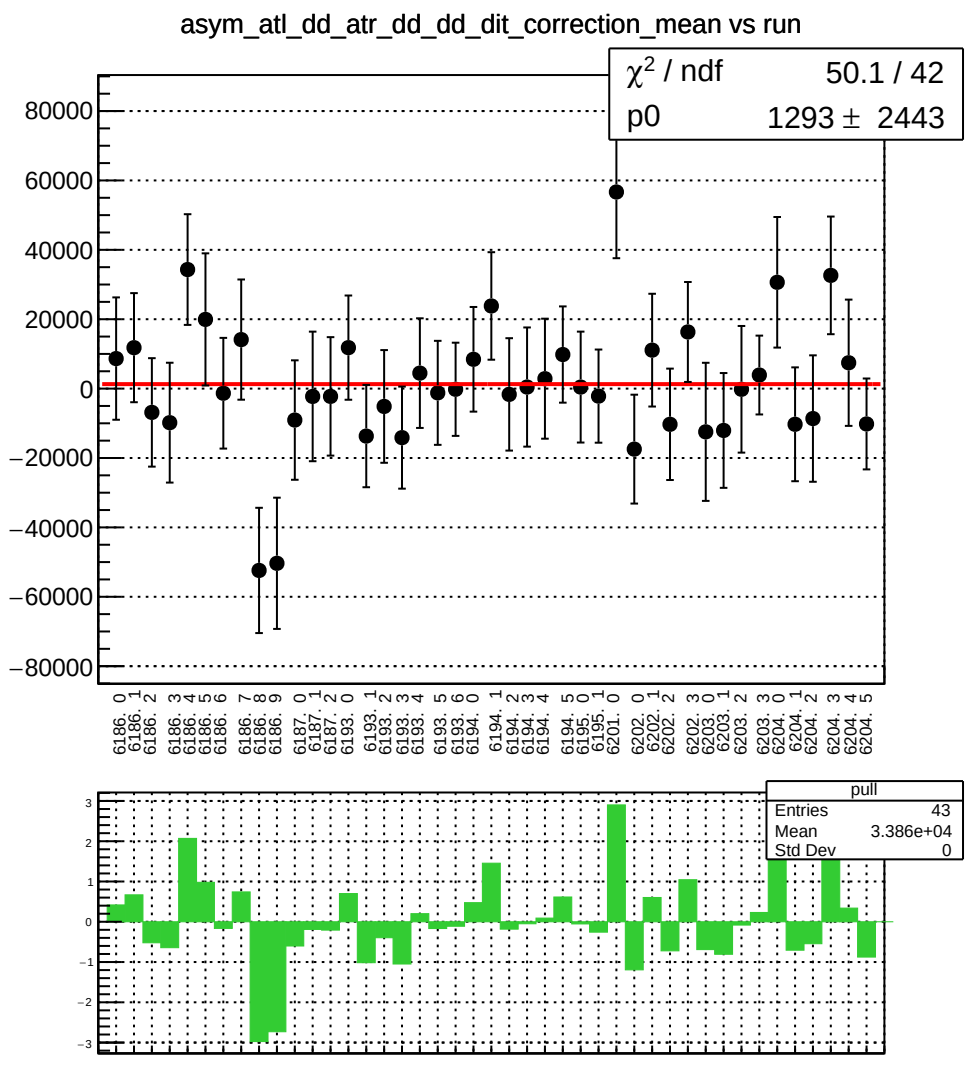

pull1D
Entries 43
Mean 3.142e−05
Std Dev 1.08
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

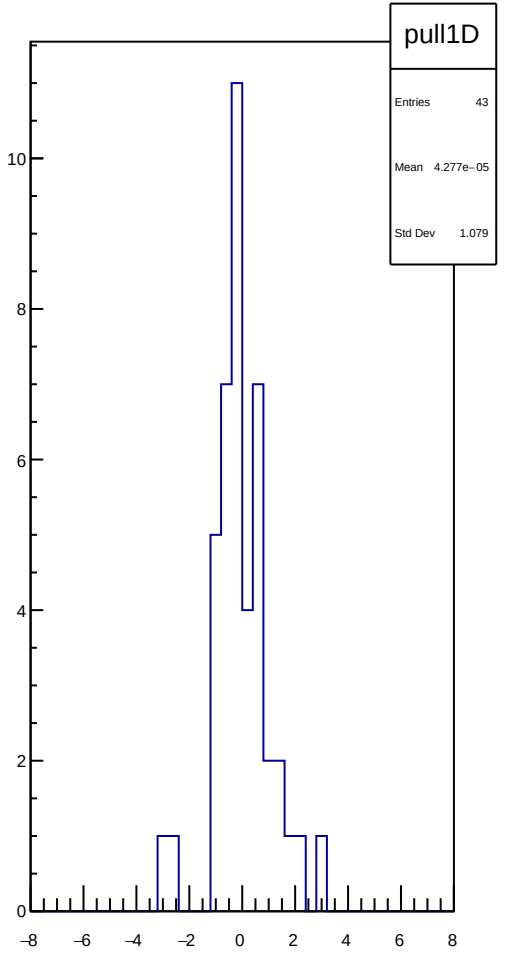

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4544 / 42
p0 1560 ± 1.702
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

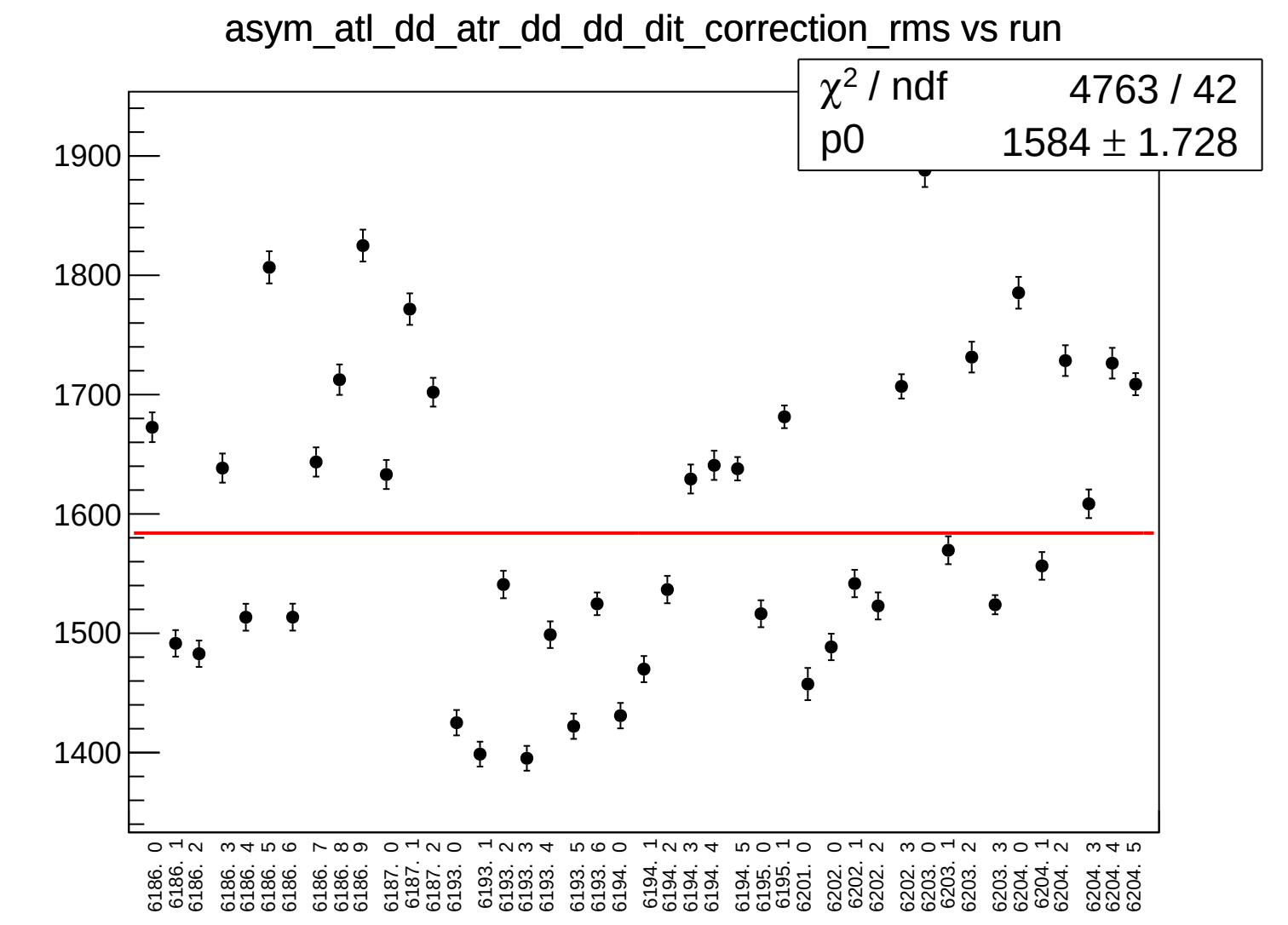

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 48.88 / 42
p0 540.7 ± 1859
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −90.33
Std Dev 0
2
1
0
−1
−2

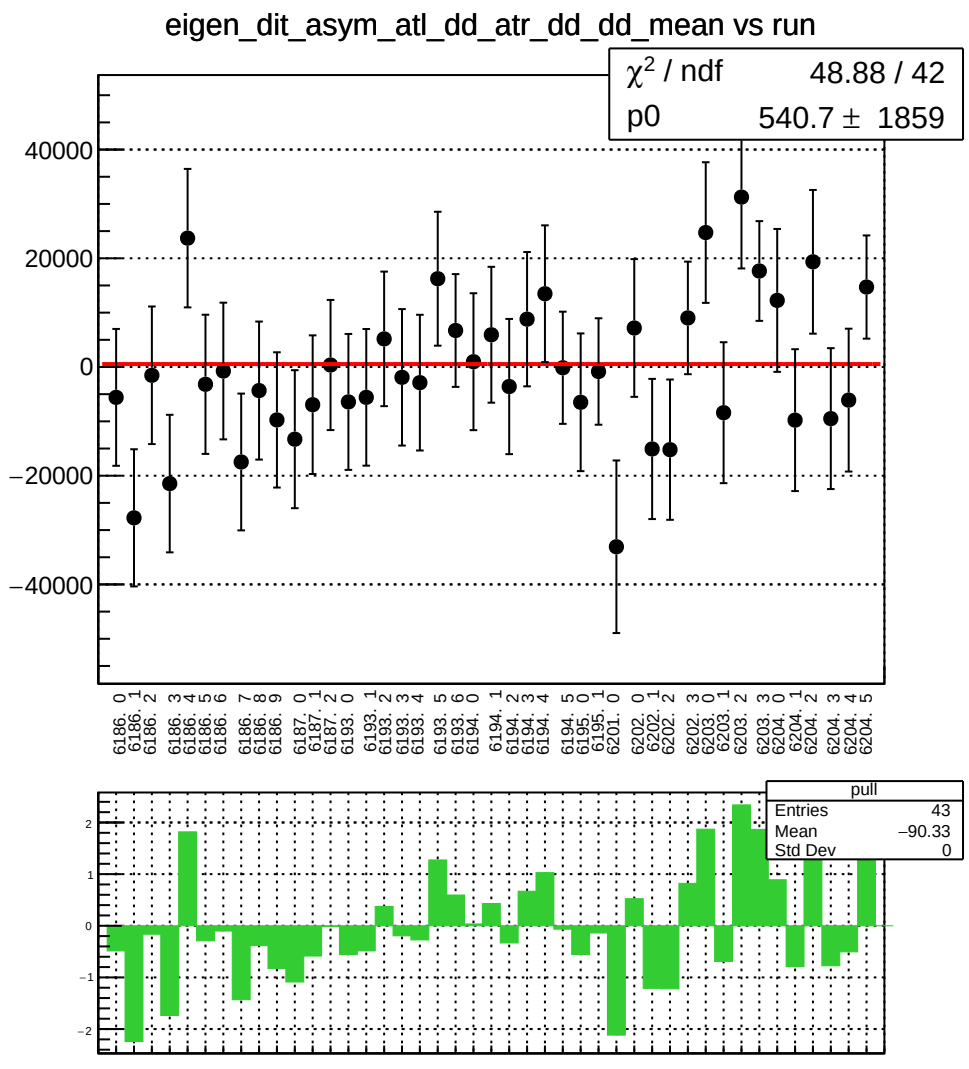

pull1D
Entries 43
Mean −0.0422
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

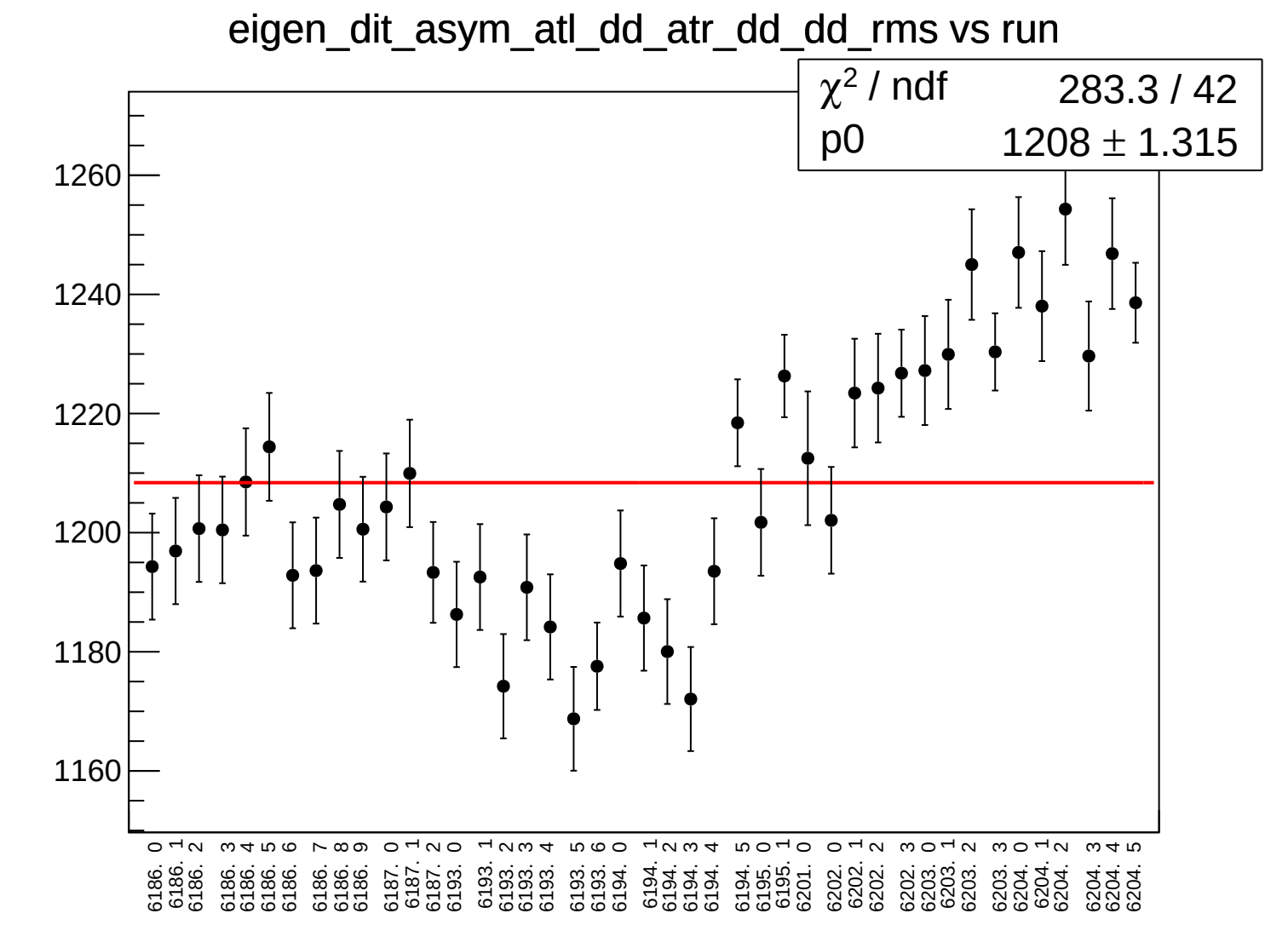

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 283.3 / 42
p0 1208 ± 1.315
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

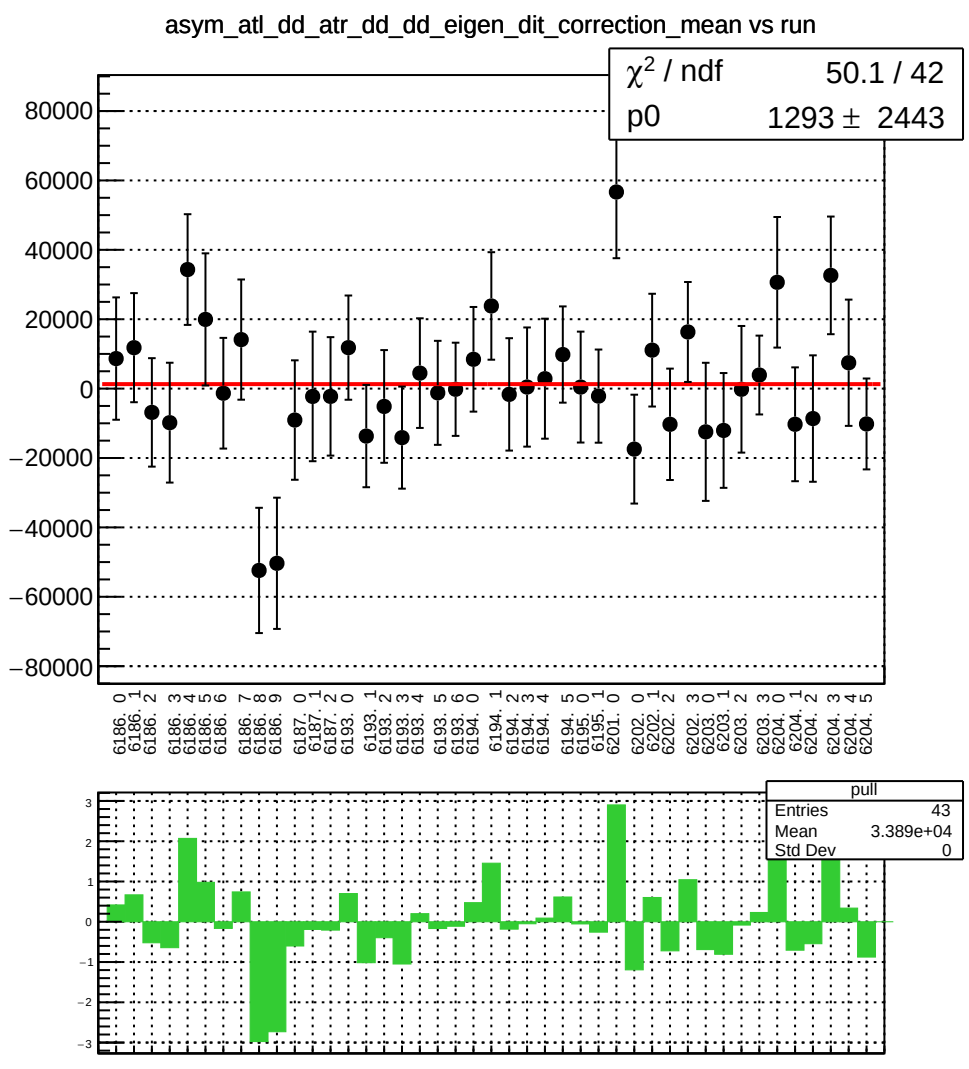

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 50.1 / 42
p0 1293 ± 2443
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 3.386e+04
Std Dev 0
3
2
1
0
−1
−2
−3

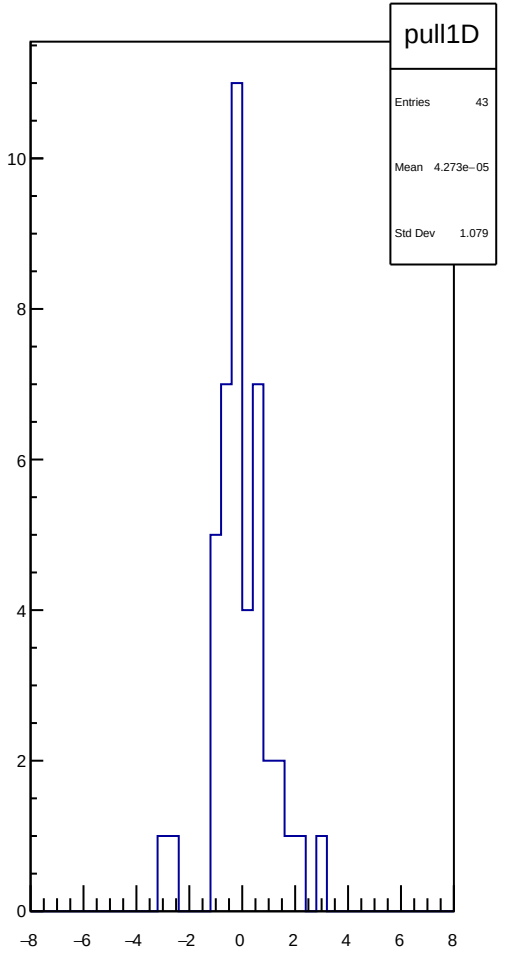

pull1D
Entries 43
Mean 4.277e−05
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

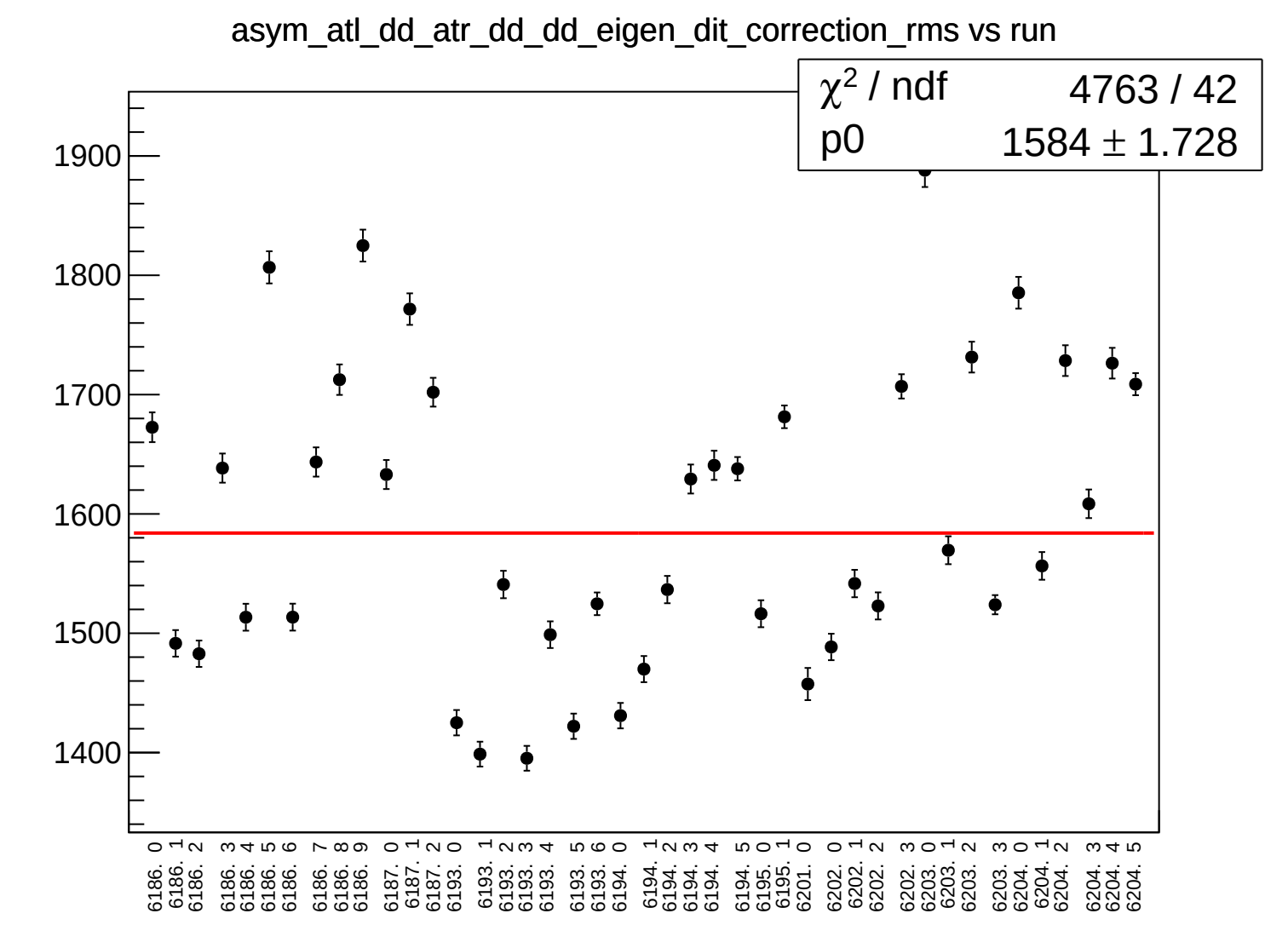

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 4763 / 42
p0 1584 ± 1.728
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

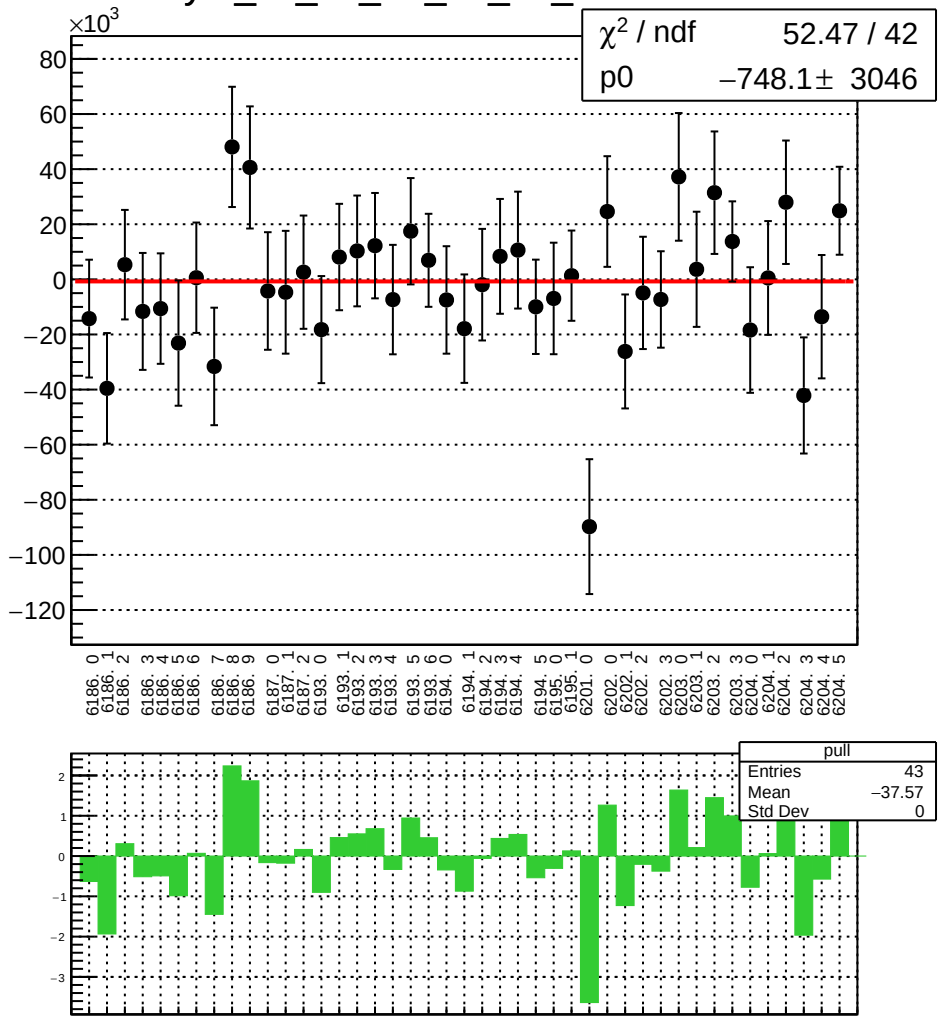

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 48.88 / 42
p0 540.7 ± 1859
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −90.33
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04221
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

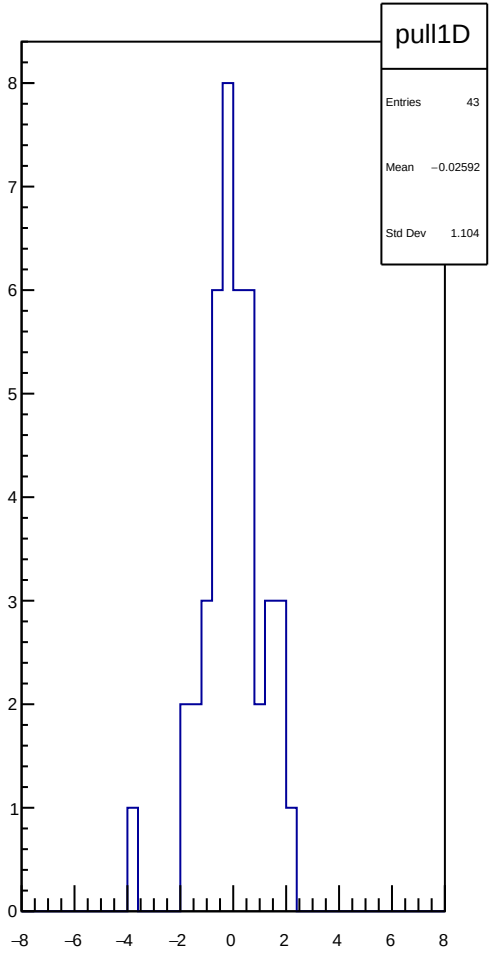

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 283.3 / 42
p0 1208 ± 1.315
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

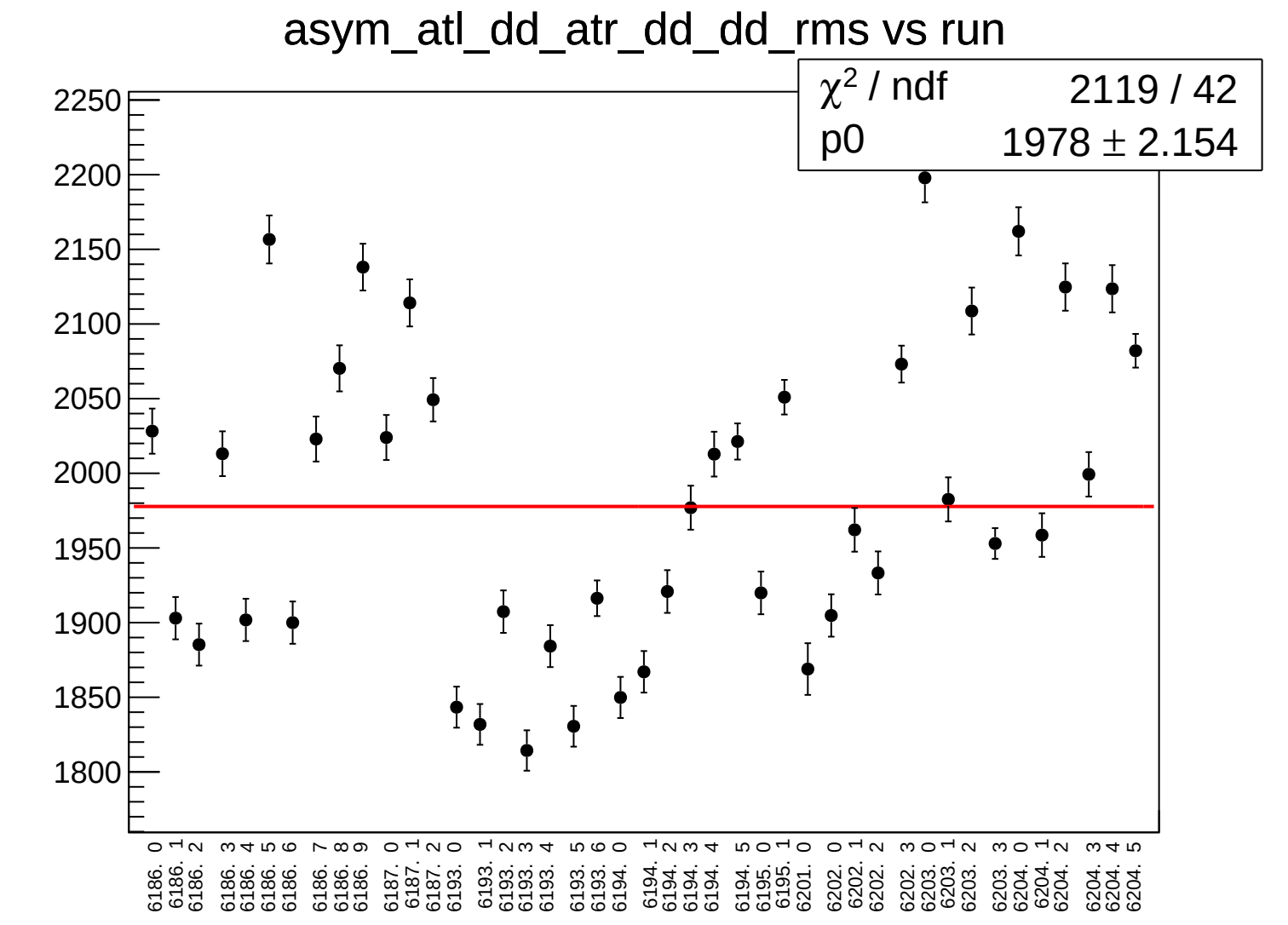

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 50.1 / 42
p0 1293 ± 2443
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 3.389e+04
Std Dev 0
3
2
1
0
−1
−2
−3

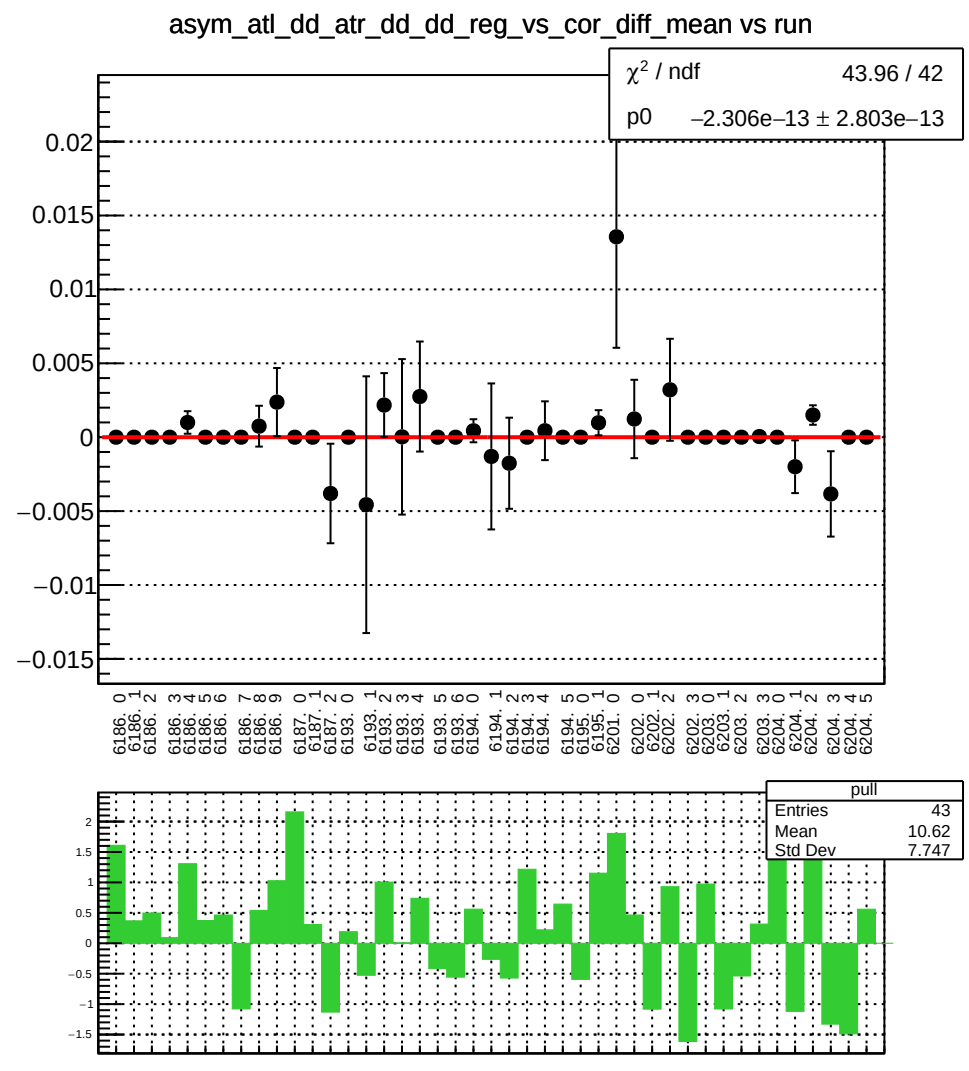

pull1D
Entries 43
Mean 4.273e−05
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

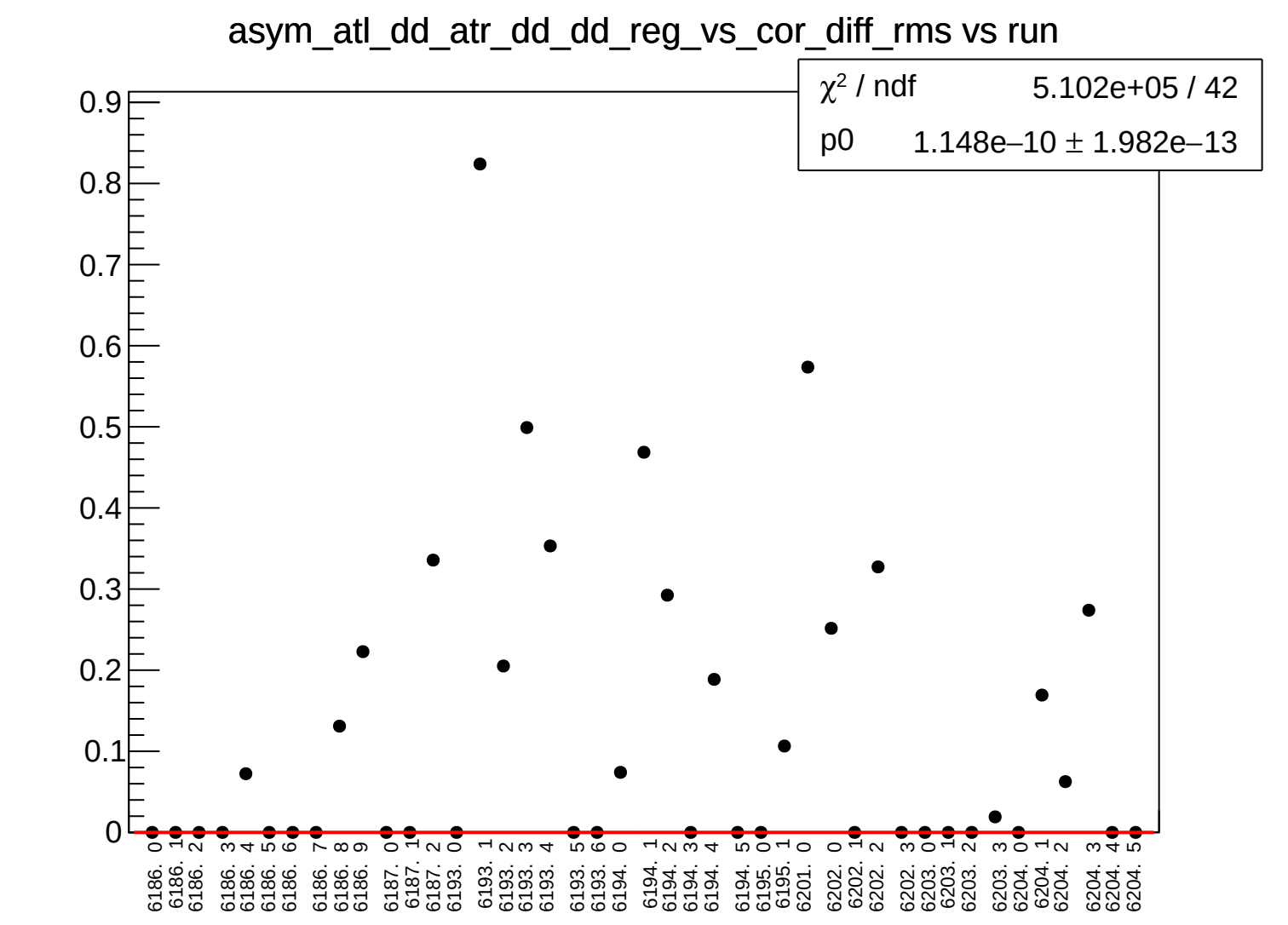

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4763 / 42
p0 1584 ± 1.728
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

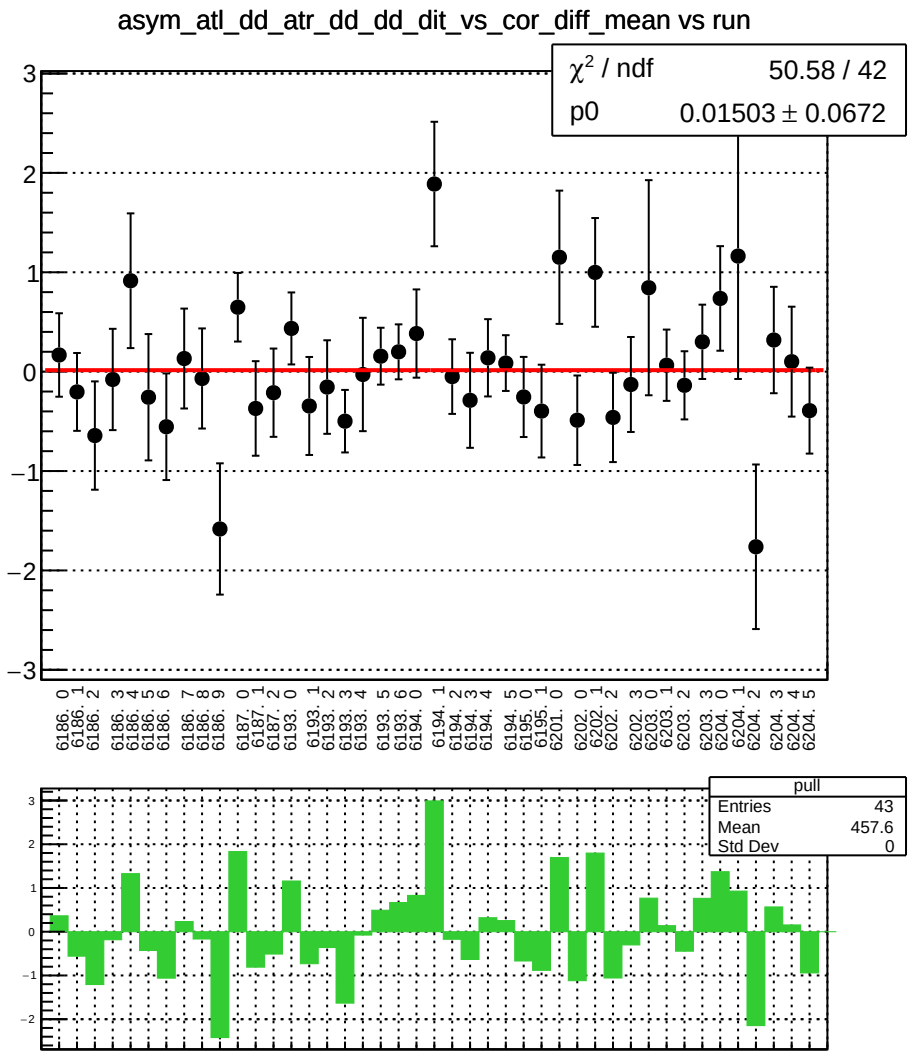

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 52.47 / 42
p0 −748.1± 3046
80
60
40
20
0
−20
−40
−60
−80
−100
−120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −37.57
Std Dev 0
2
1
0
−1
−2
−3

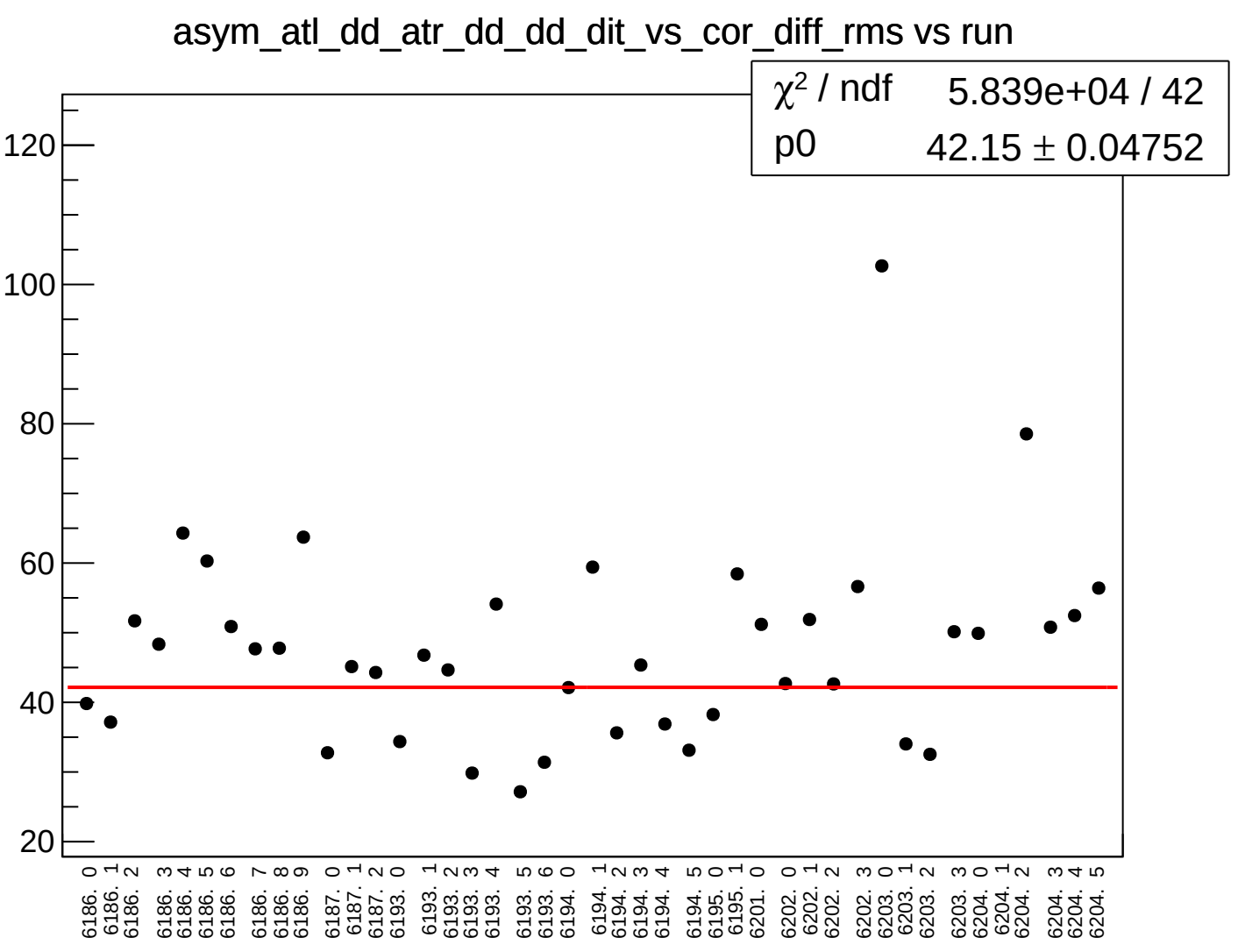

pull1D
Entries 43
Mean −0.02592
Std Dev 1.104
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

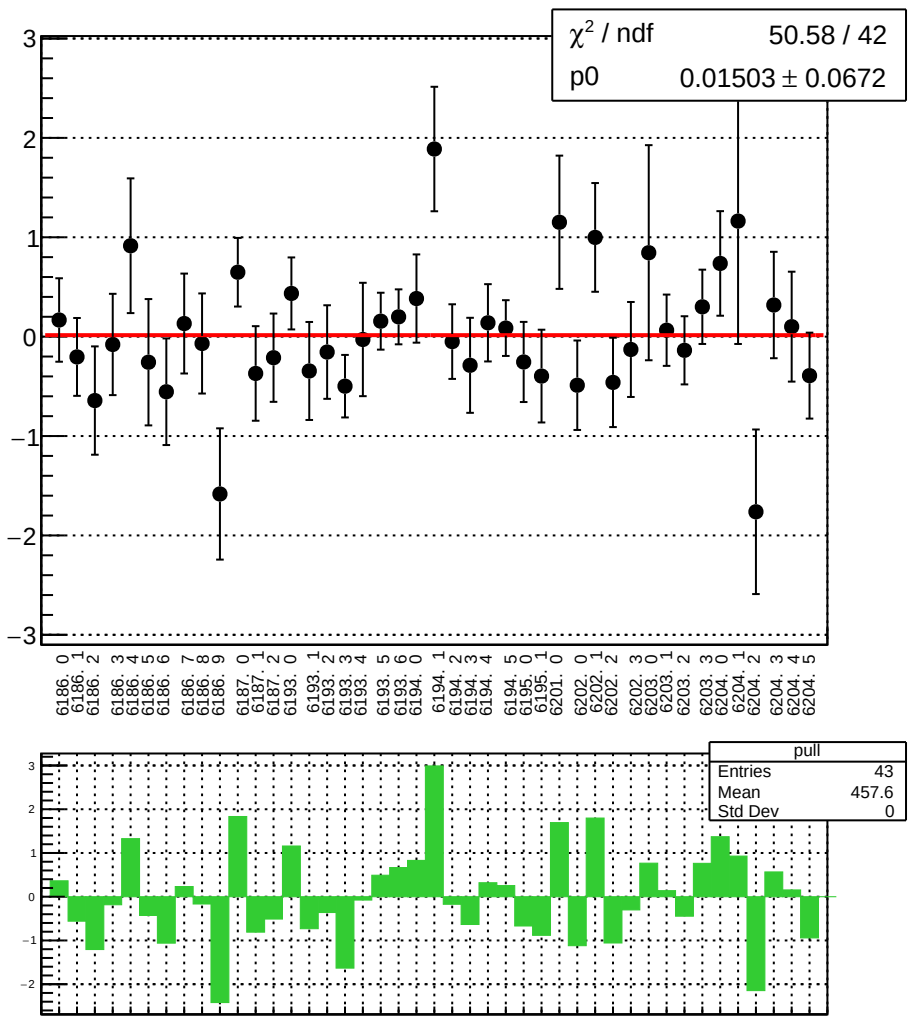

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 2119 / 42
p0 1978 ± 2.154
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

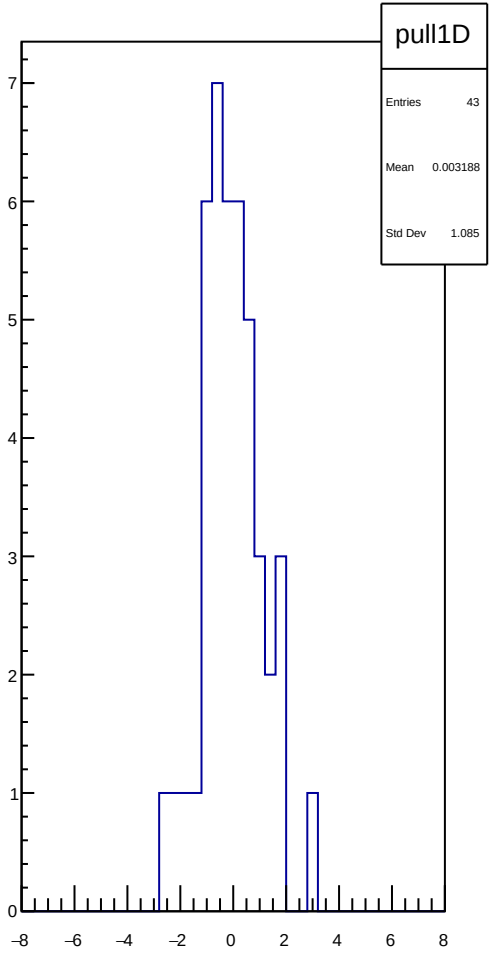

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 43.96 / 42
p0 −2.306e−13 ± 2.803e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 10.62
Std Dev 7.747
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.2313
Std Dev 0.9843
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

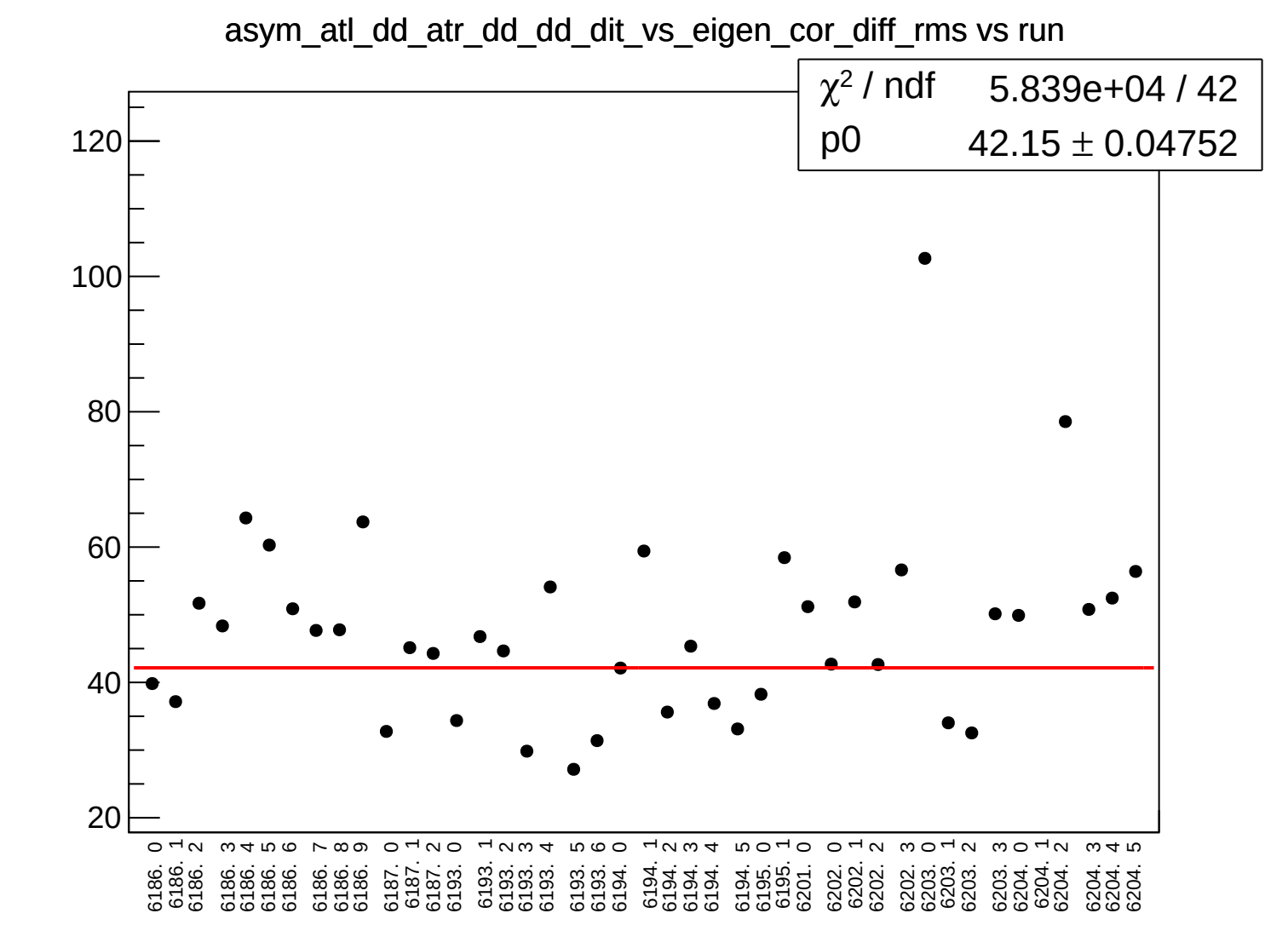

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.102e+05 / 42
p0 1.148e−10 ± 1.982e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

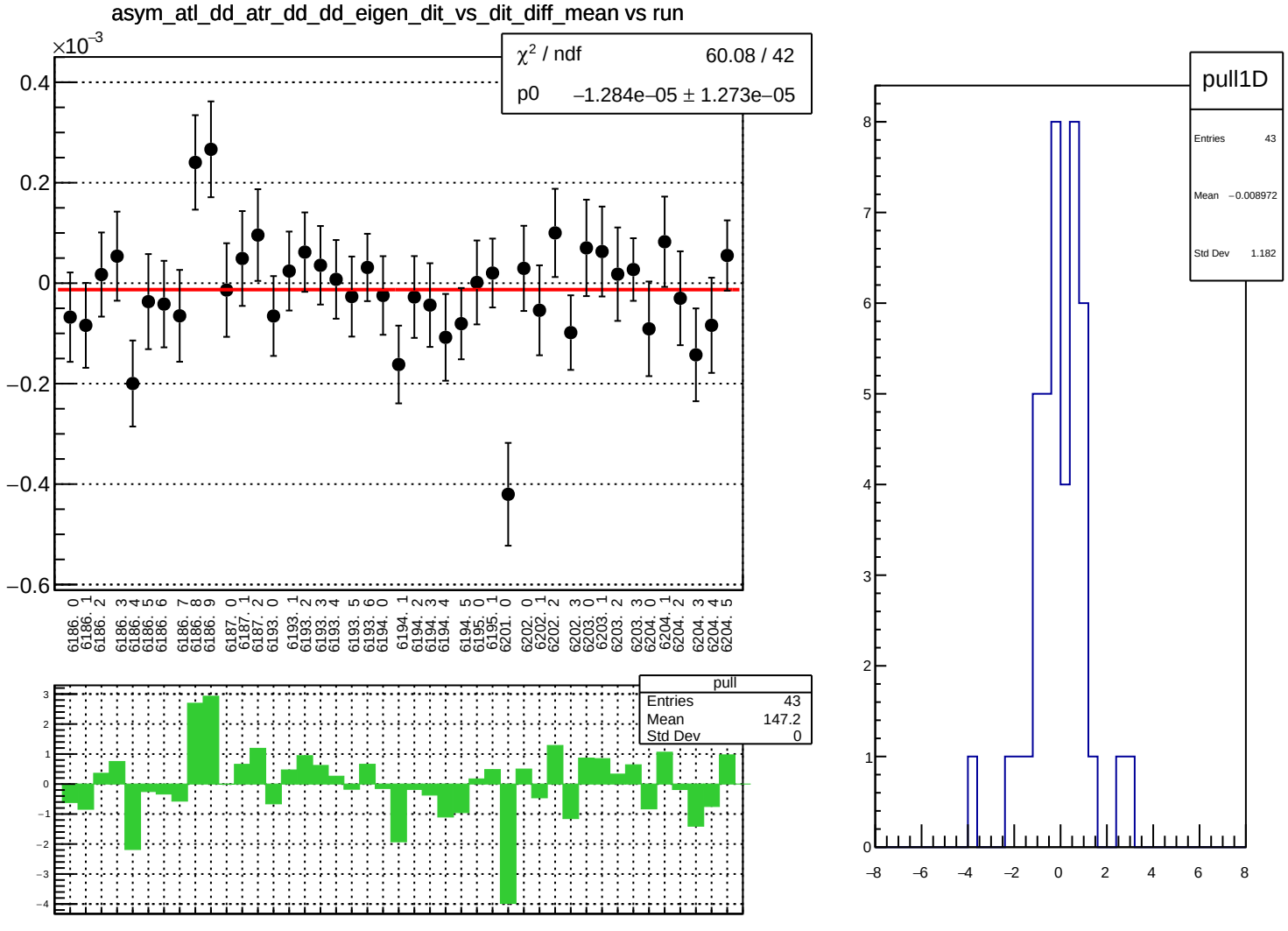

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 50.58 / 42
p0 0.01503 ± 0.0672
pull
Entries 43
Mean 457.6
Std Dev 0
pull1D
Entries 43
Mean 0.003188
Std Dev 1.085

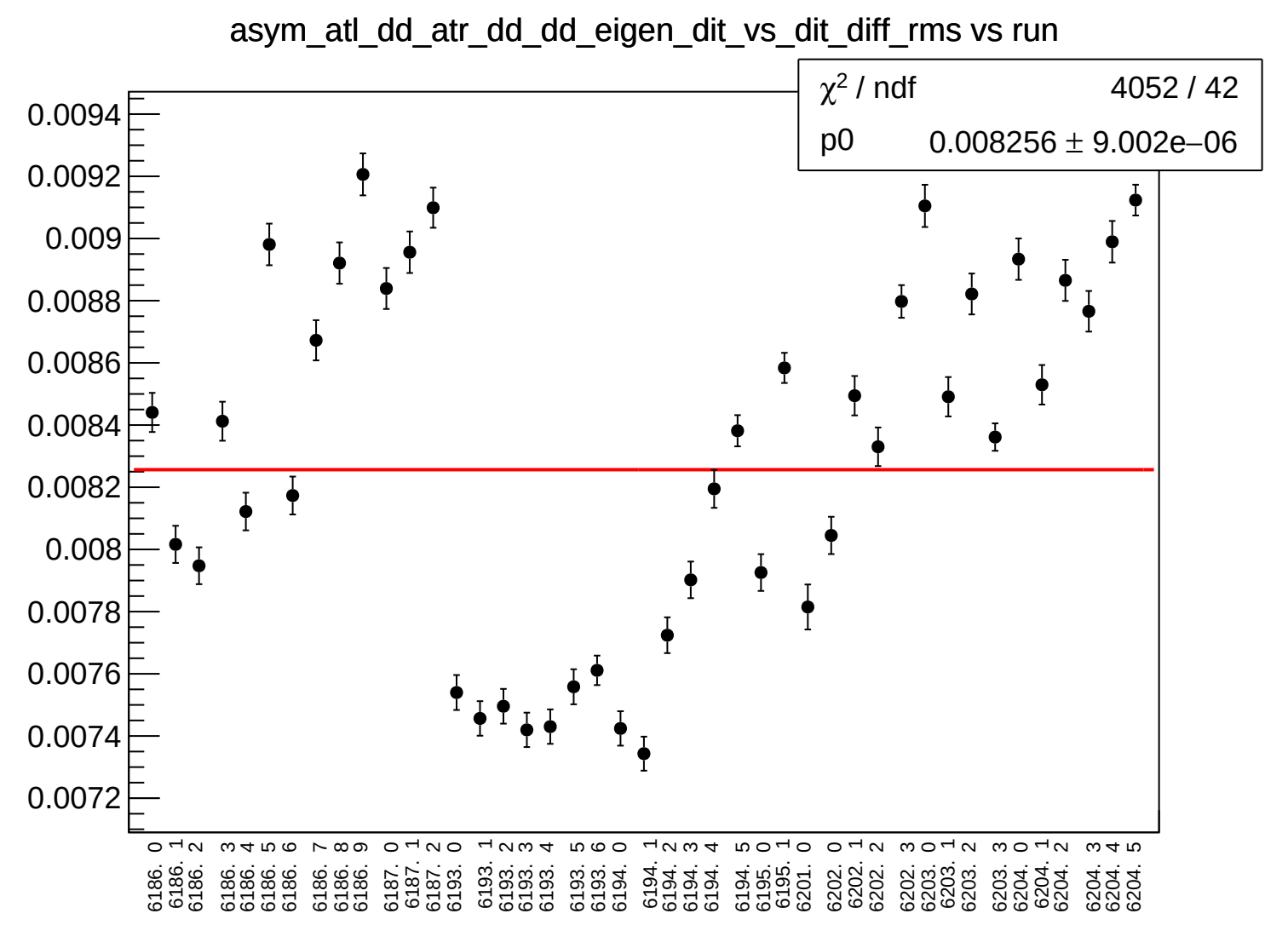

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.839e+04 / 42
p0 42.15 ± 0.04752
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

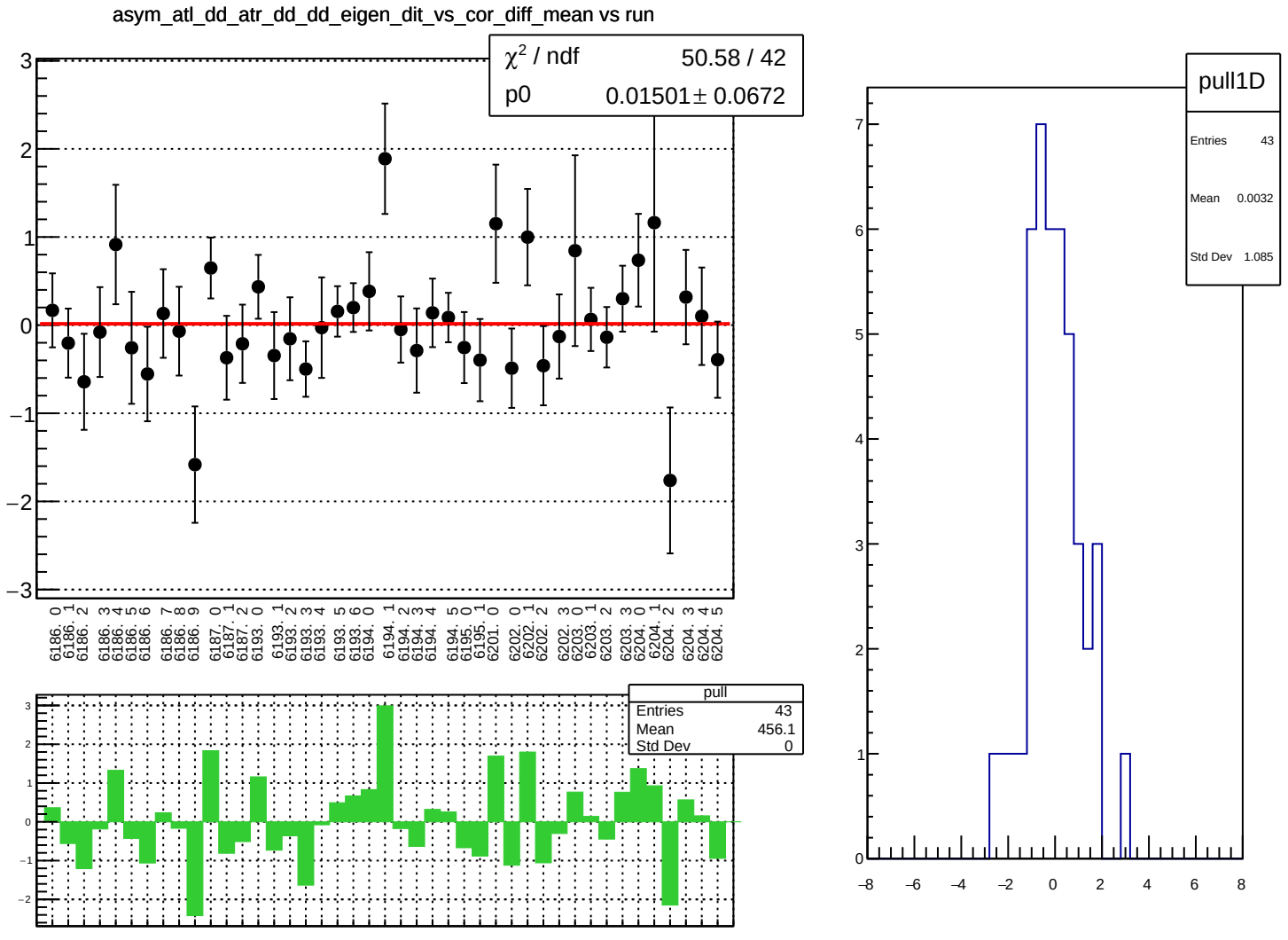

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.58 / 42
p0 0.01503 ± 0.0672
pull
Entries 43
Mean 457.6
Std Dev 0

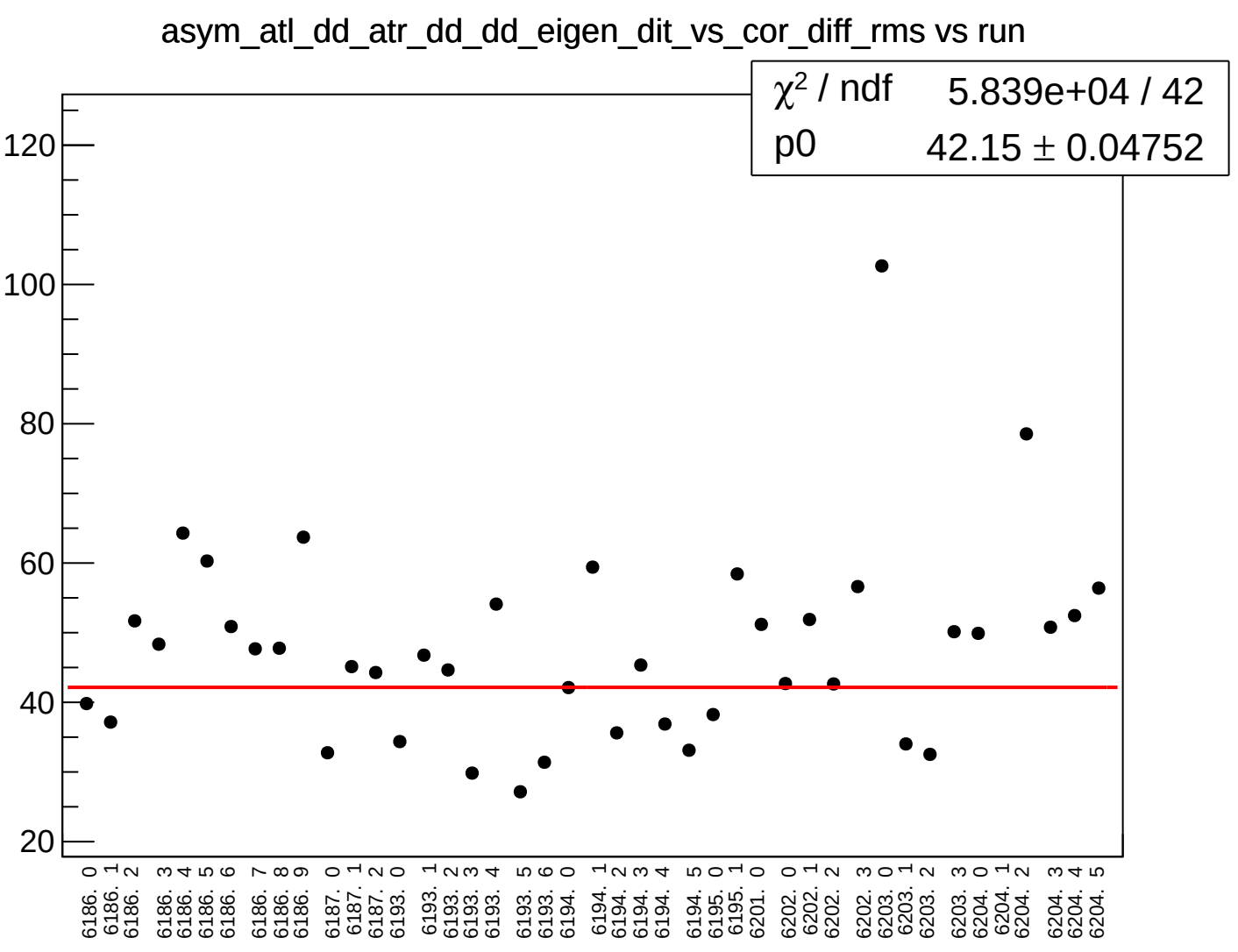

pull1D
Entries 43
Mean 0.003188
Std Dev 1.085

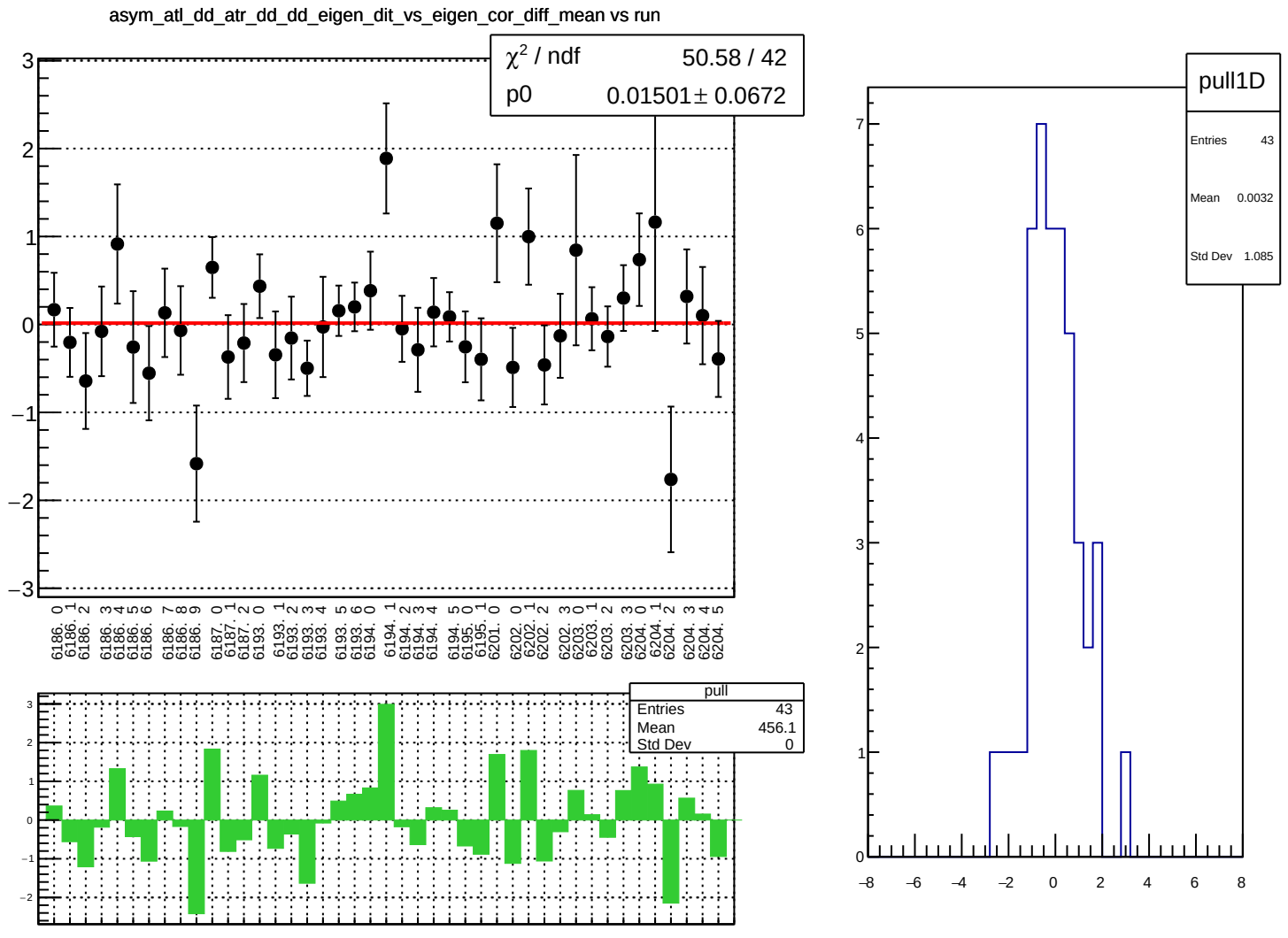

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.839e+04 / 42
p0 42.15 ± 0.04752
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

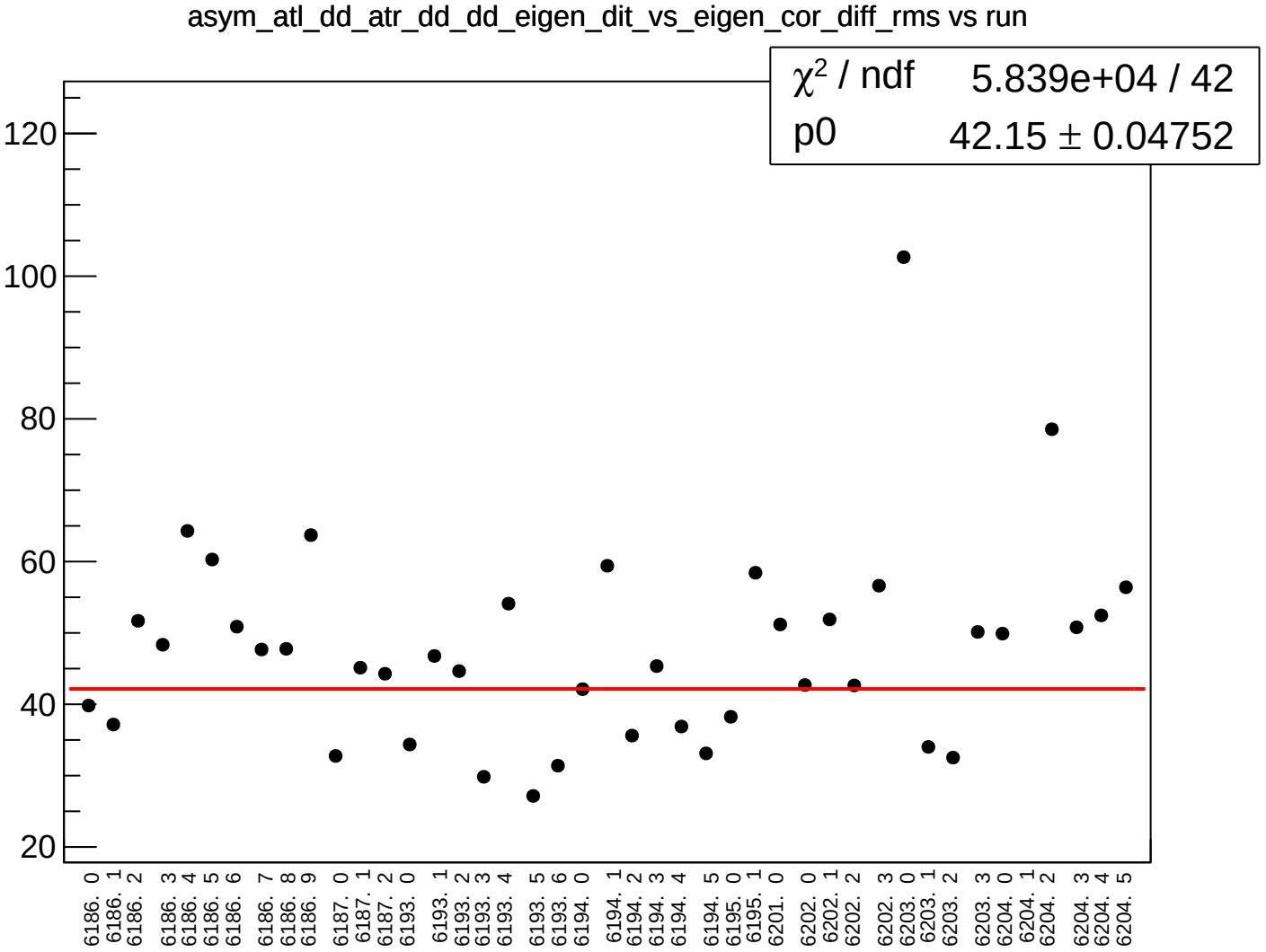

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 60.08 / 42
p0 −1.284e−05 ± 1.273e−05
0.4
0.2
0
−0.2
−0.4
−0.6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 147.2
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.008972
Std Dev 1.182
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

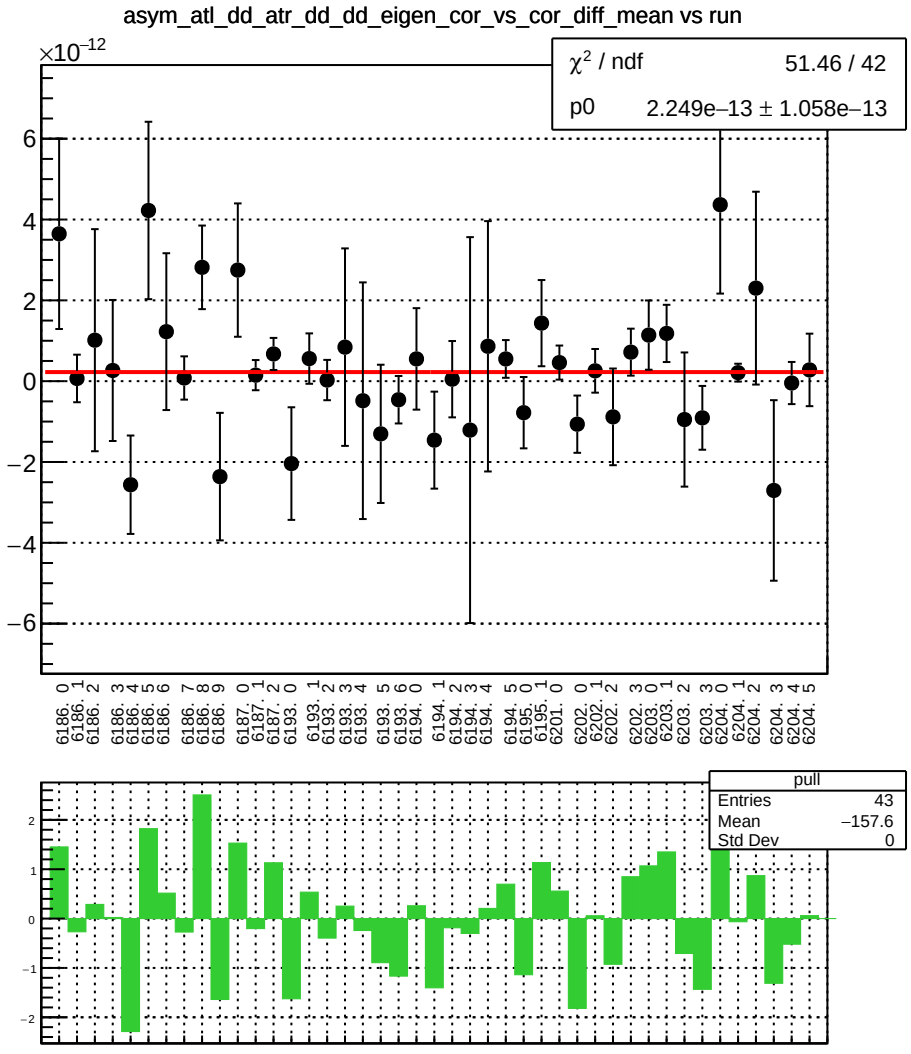

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4052 / 42
p0 0.008256 ± 9.002e−06
0.0094
0.0092
0.009
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

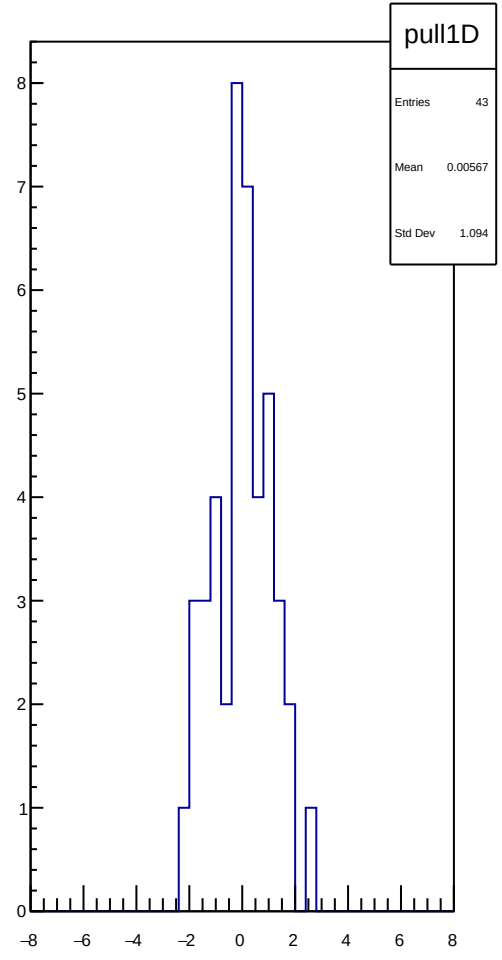

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.58 / 42
p0 0.01501 ± 0.0672
pull
Entries 43
Mean 456.1
Std Dev 0
pull1D
Entries 43
Mean 0.0032
Std Dev 1.085

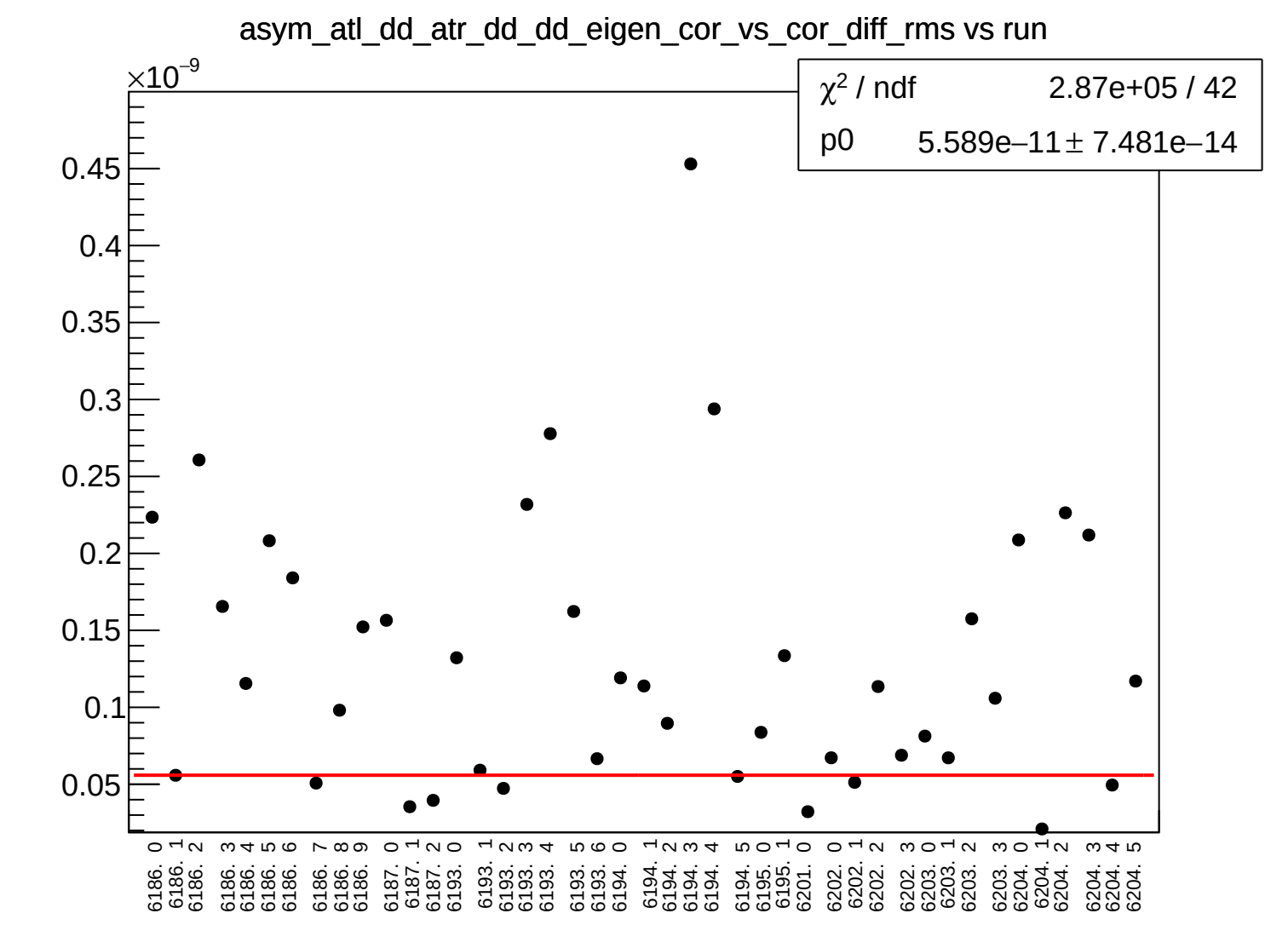

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.839e+04 / 42
p0 42.15 ± 0.04752
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

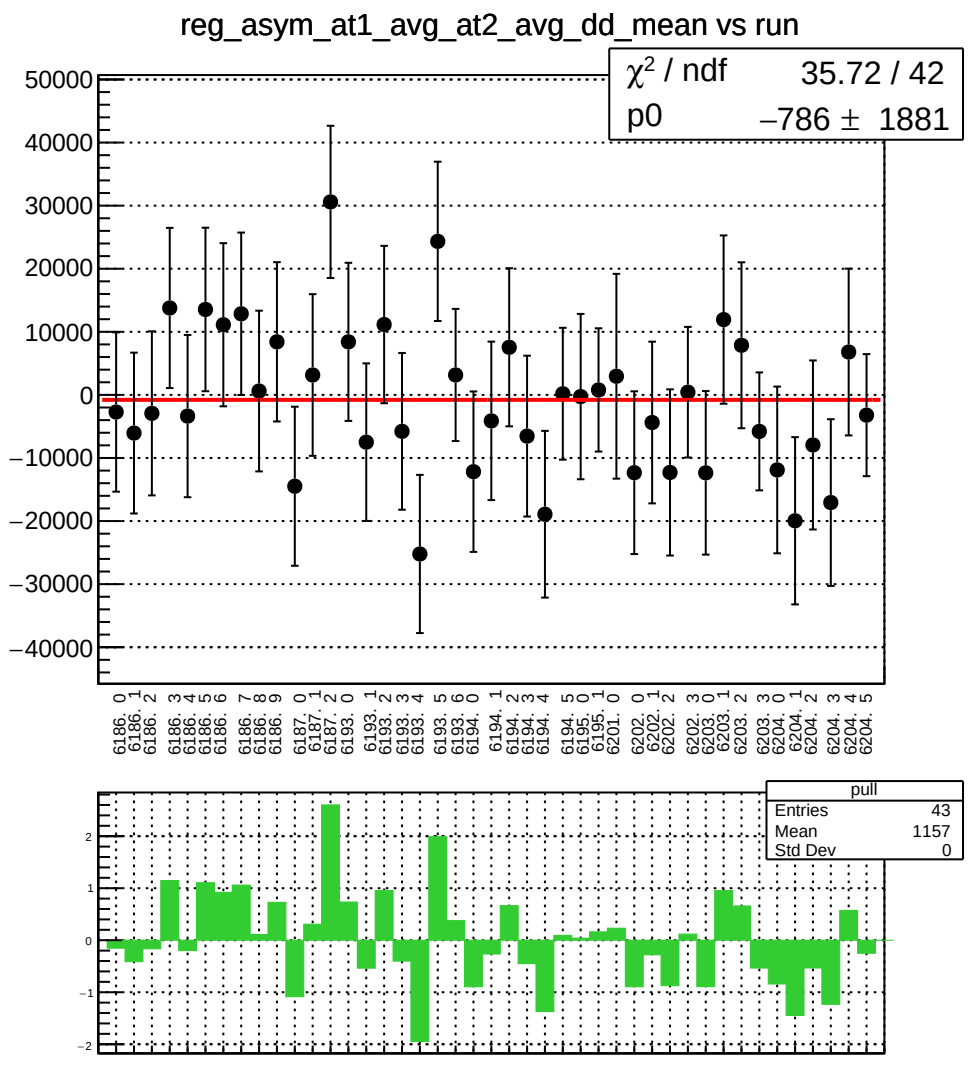

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.58 / 42
p0 0.01501 ± 0.0672
pull
Entries 43
Mean 456.1
Std Dev 0
pull1D
Entries 43
Mean 0.0032
Std Dev 1.085

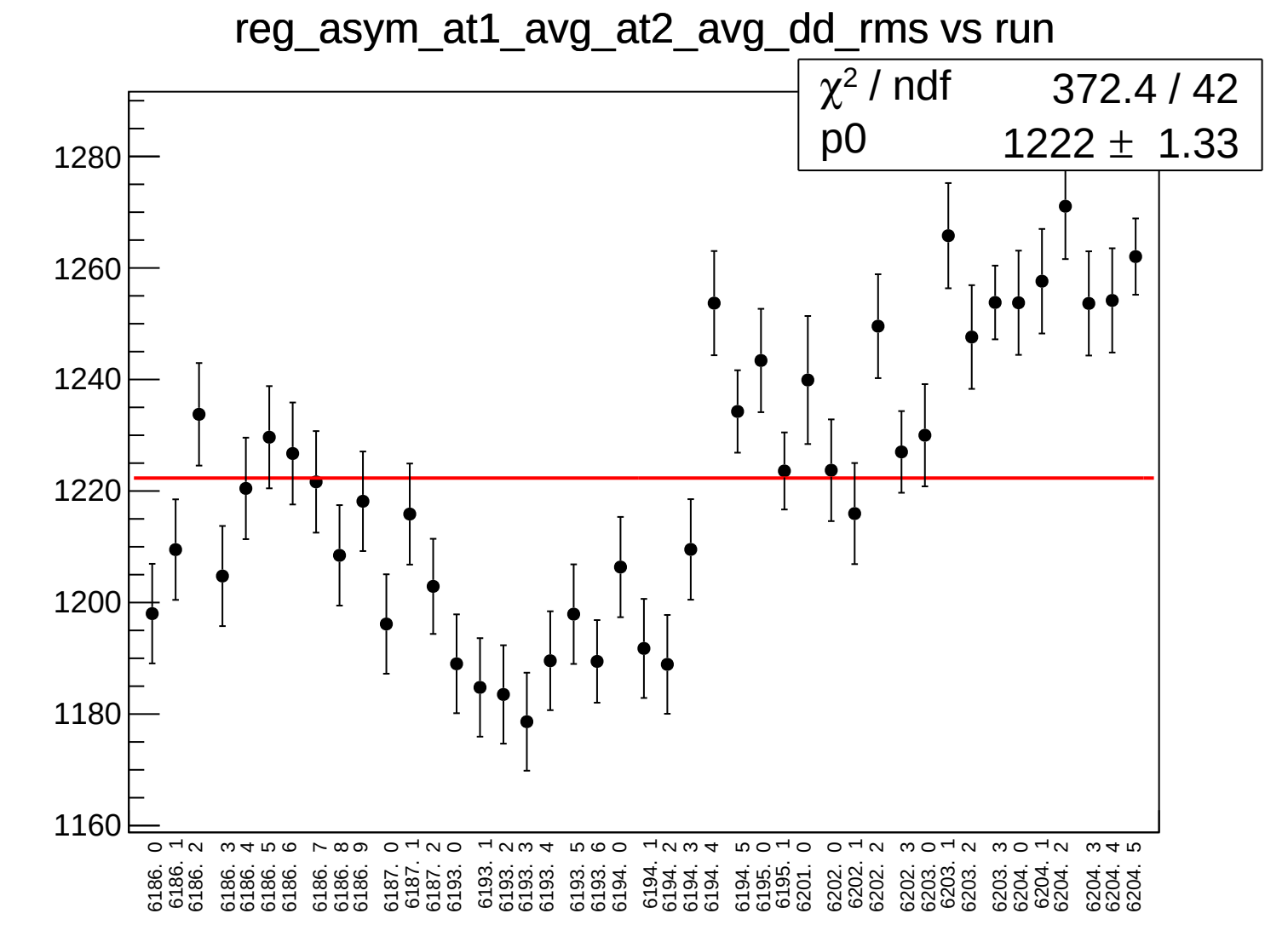

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.839e+04 / 42
p0 42.15 ± 0.04752
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

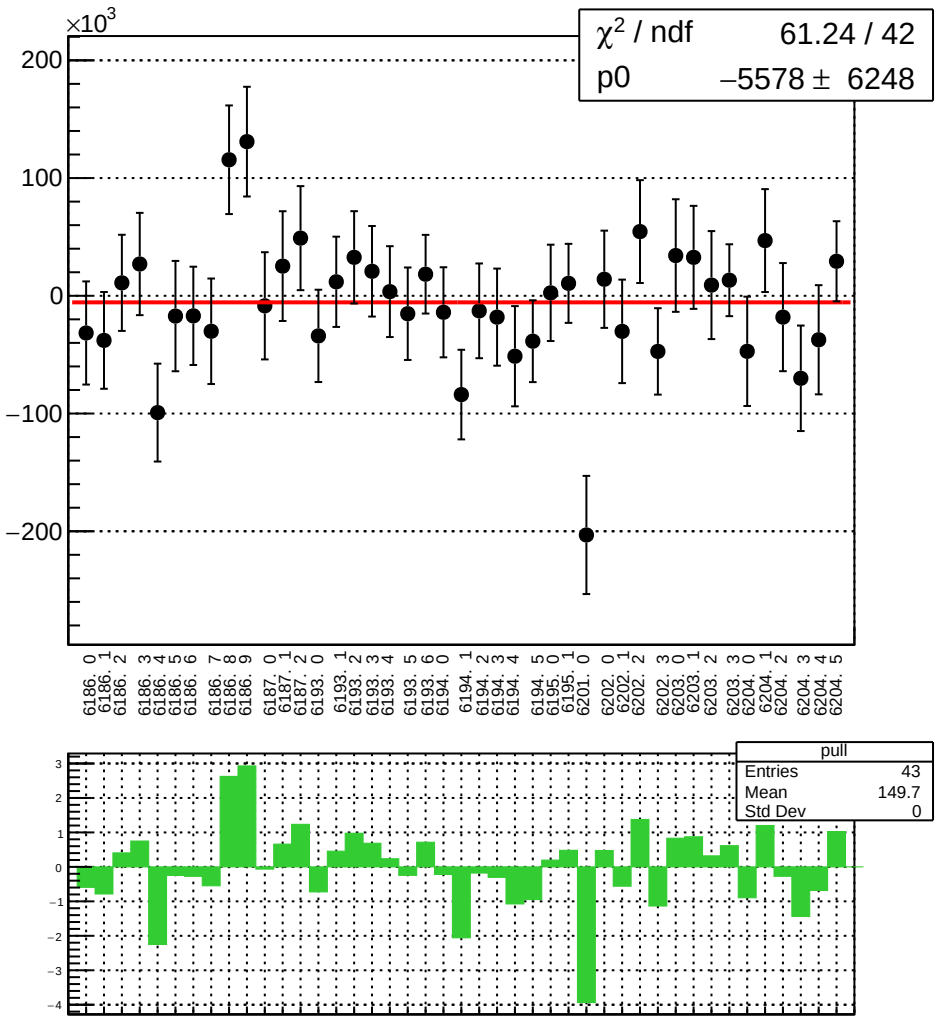

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 51.46 / 42
p0 2.249e−13 ± 1.058e−13
pull
Entries 43
Mean −157.6
Std Dev 0

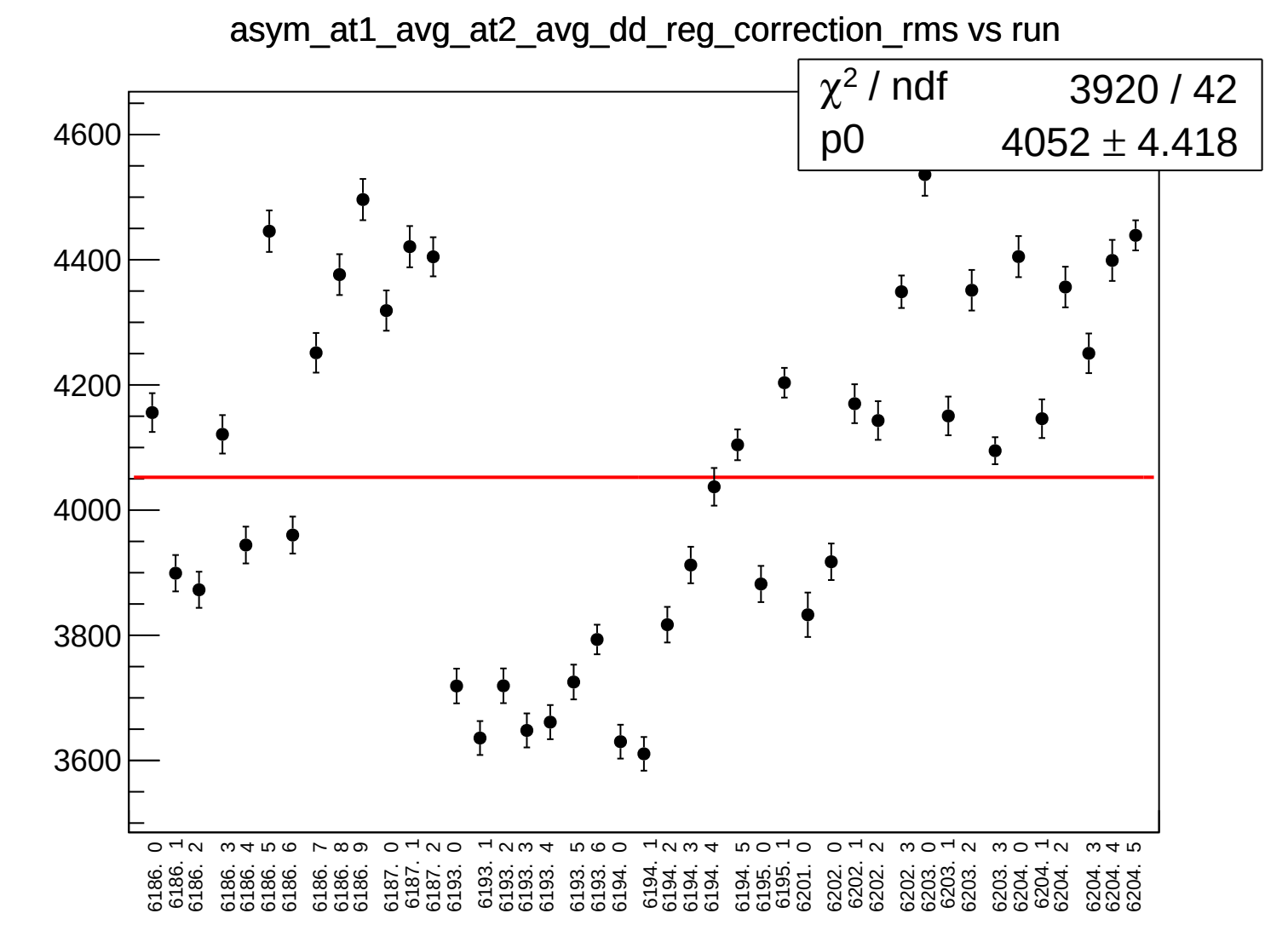

pull1D
Entries 43
Mean 0.00567
Std Dev 1.094


asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.87e+05 / 42
p0 5.589e−11 ± 7.481e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 35.72 / 42
p0 −786 ± 1881
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1157
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.003232
Std Dev 0.9114
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 372.4 / 42
p0 1222 ± 1.33
1280
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 61.24 / 42
p0 −5578 ± 6248
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 149.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.008725
Std Dev 1.193
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 3920 / 42
p0 4052 ± 4.418
4600
4400
4200
4000
3800
3600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
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6202. 2
6202. 3
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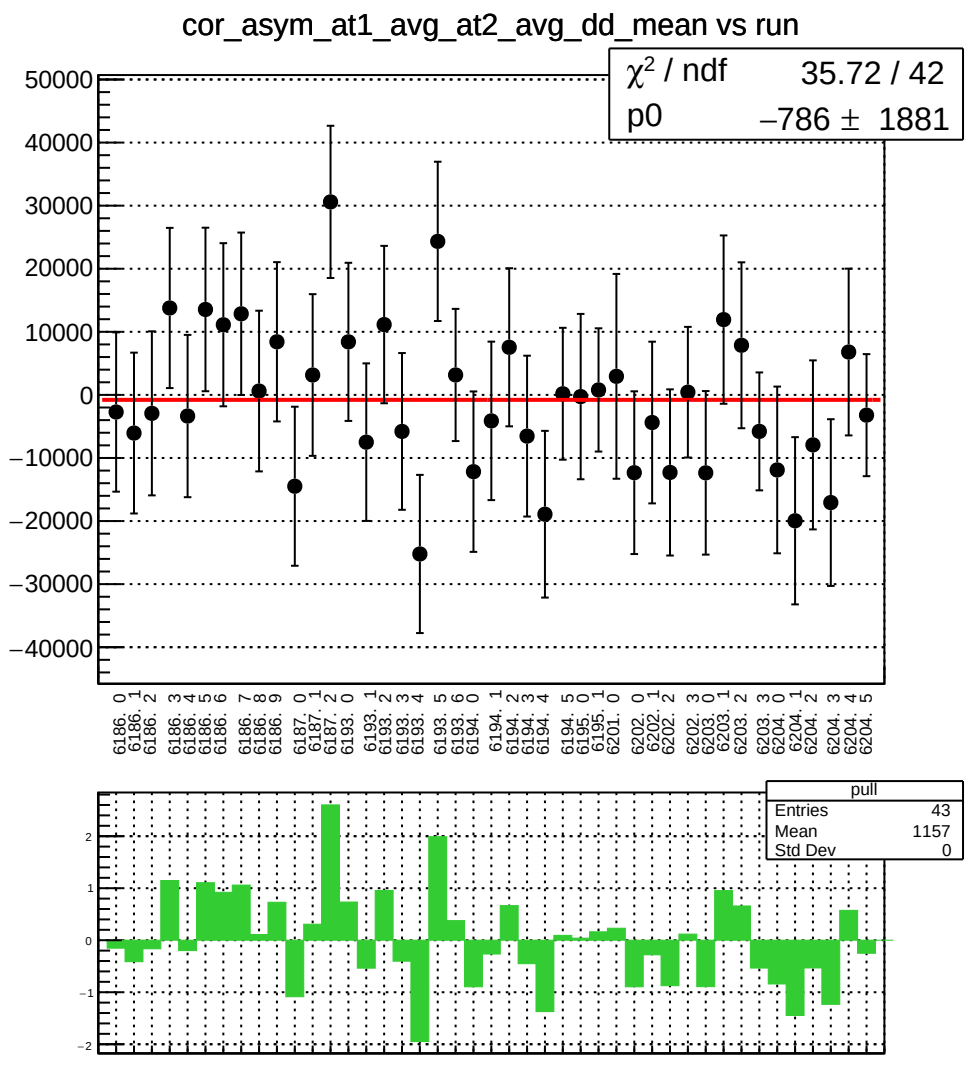
cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 35.72 / 42
p0 −786 ± 1881
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
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6186. 6
6186. 7
6186. 8
6186. 9
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6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
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6194. 2
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6194. 4
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6195. 1
6201. 0
6202. 0
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6202. 2
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6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1157
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.003235
Std Dev 0.9114
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−4
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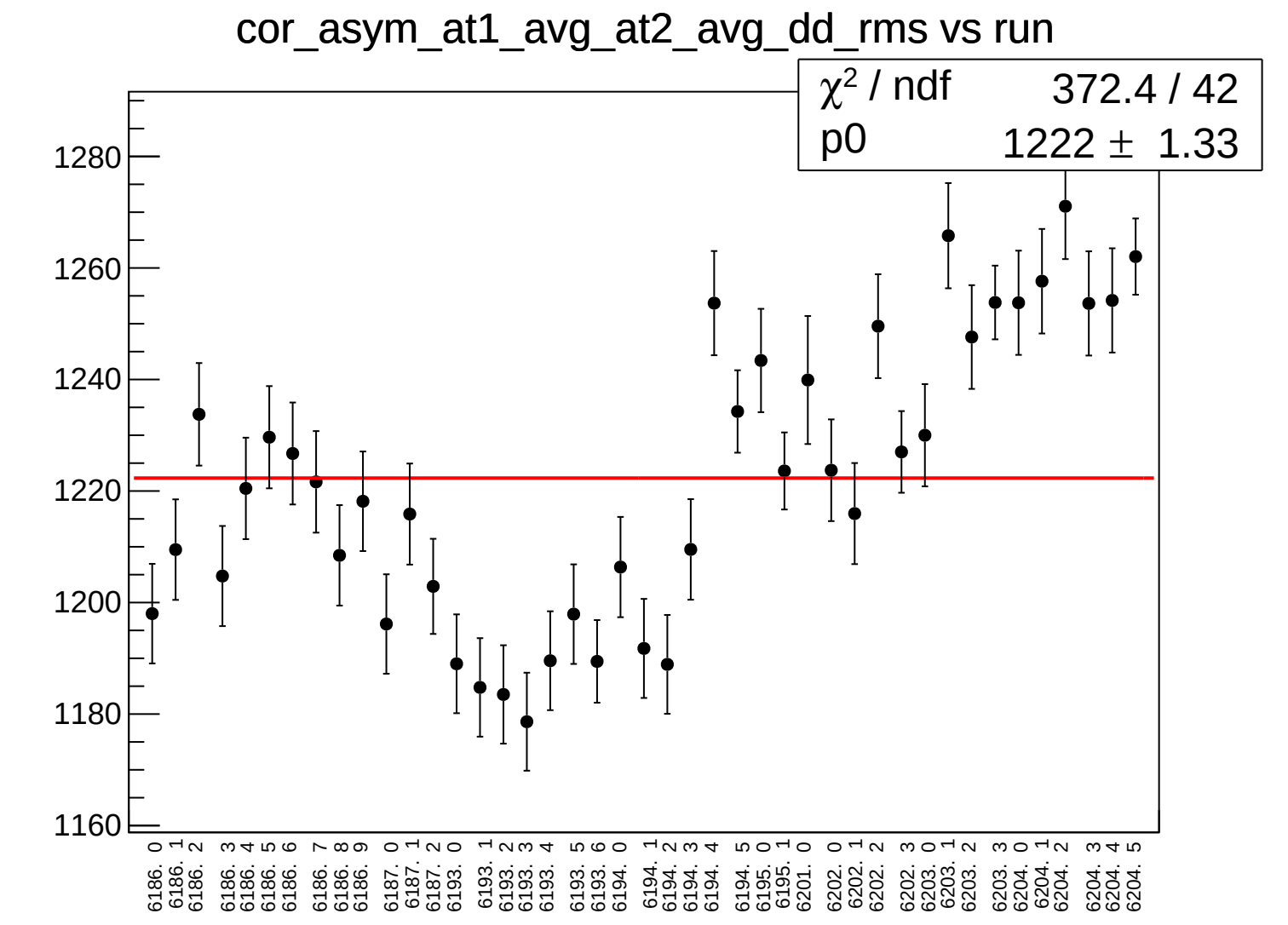
cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 372.4 / 42
p0 1222 ± 1.33
1280
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 5
6186. 6
6186. 7
6186. 8
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6187. 2
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6193. 3
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6194. 2
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6202. 1
6202. 2
6202. 3
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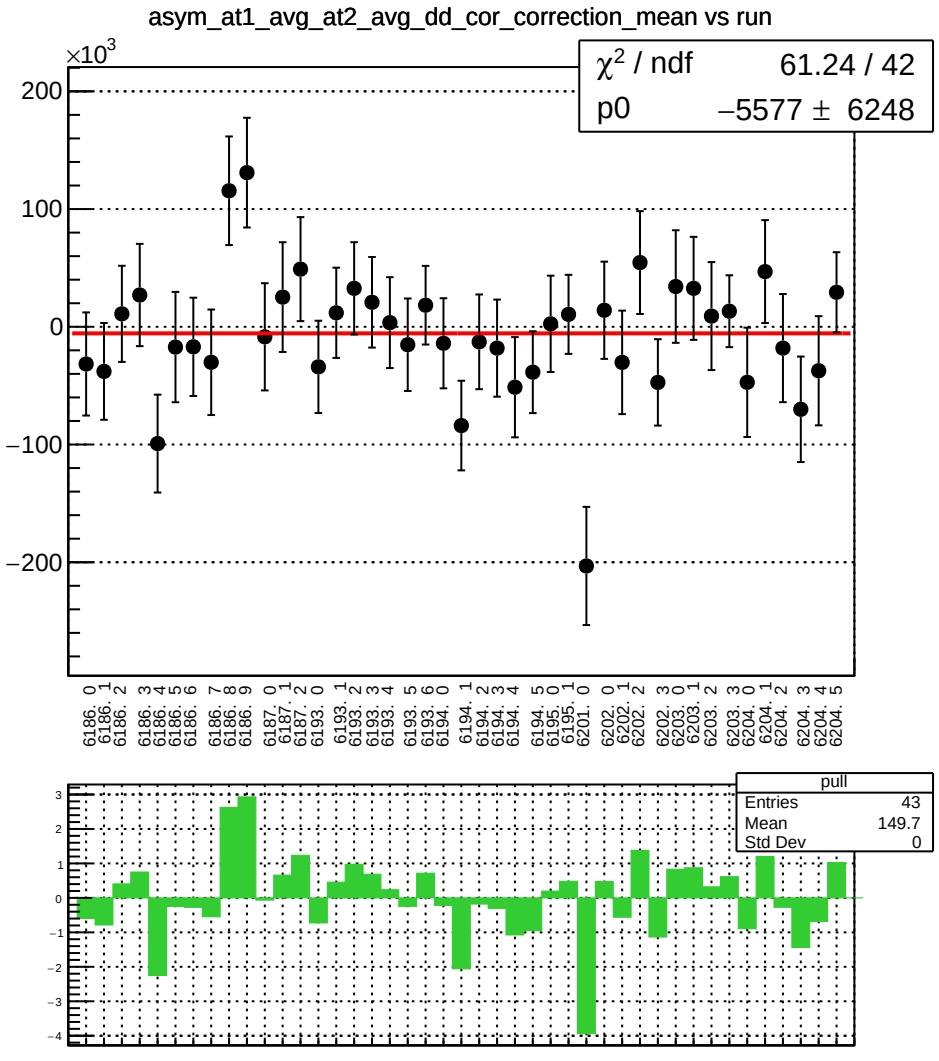
asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 61.24 / 42
p0 −5577 ± 6248
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
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6186. 6
6186. 7
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6186. 9
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6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
6194. 4
6194. 5
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6201. 0
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6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
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6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 149.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.008726
Std Dev 1.193
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6
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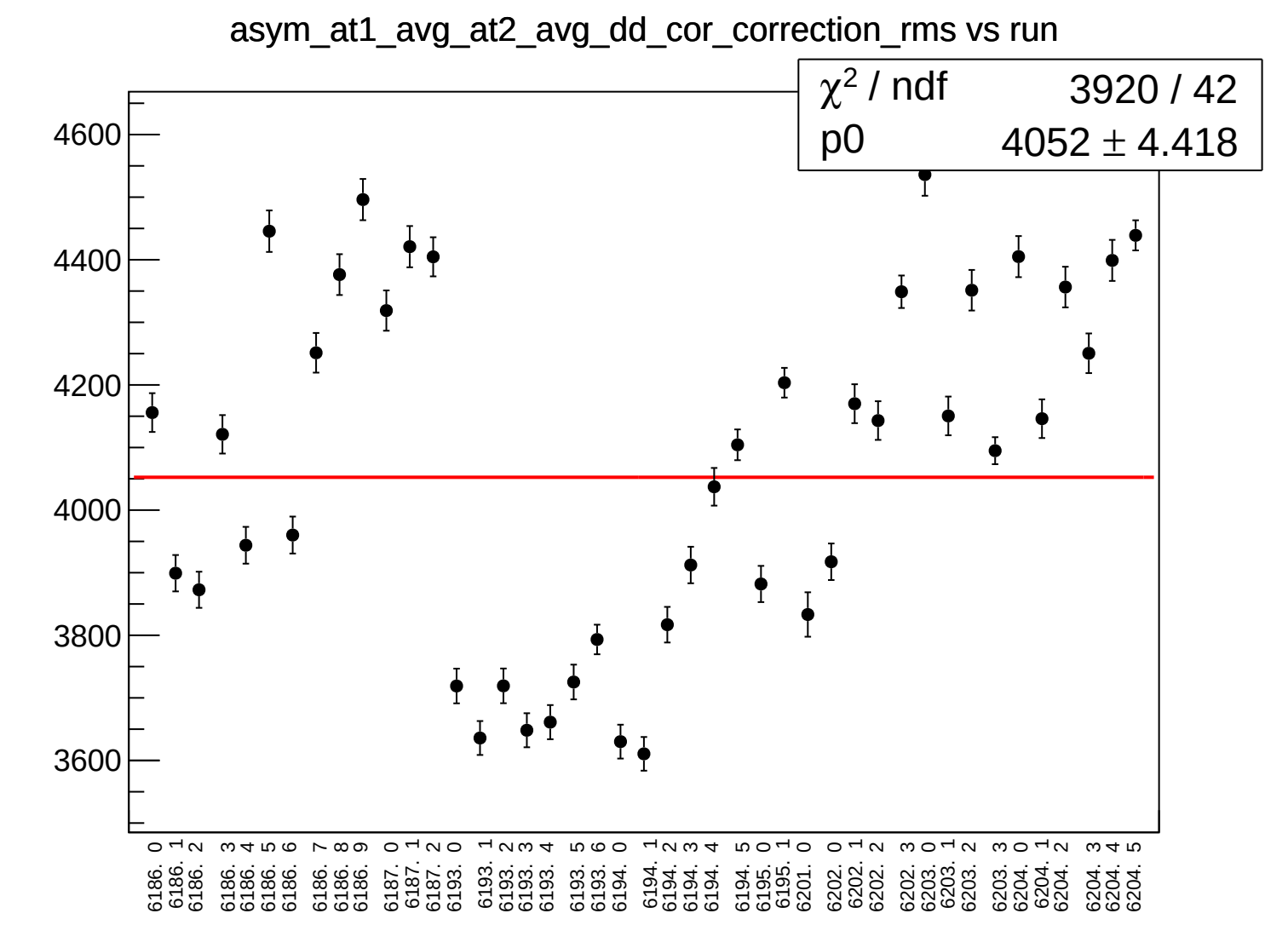
asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 3920 / 42
p0 4052 ± 4.418
4600
4400
4200
4000
3800
3600
6186. 0
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6193. 5
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6202. 2
6202. 3
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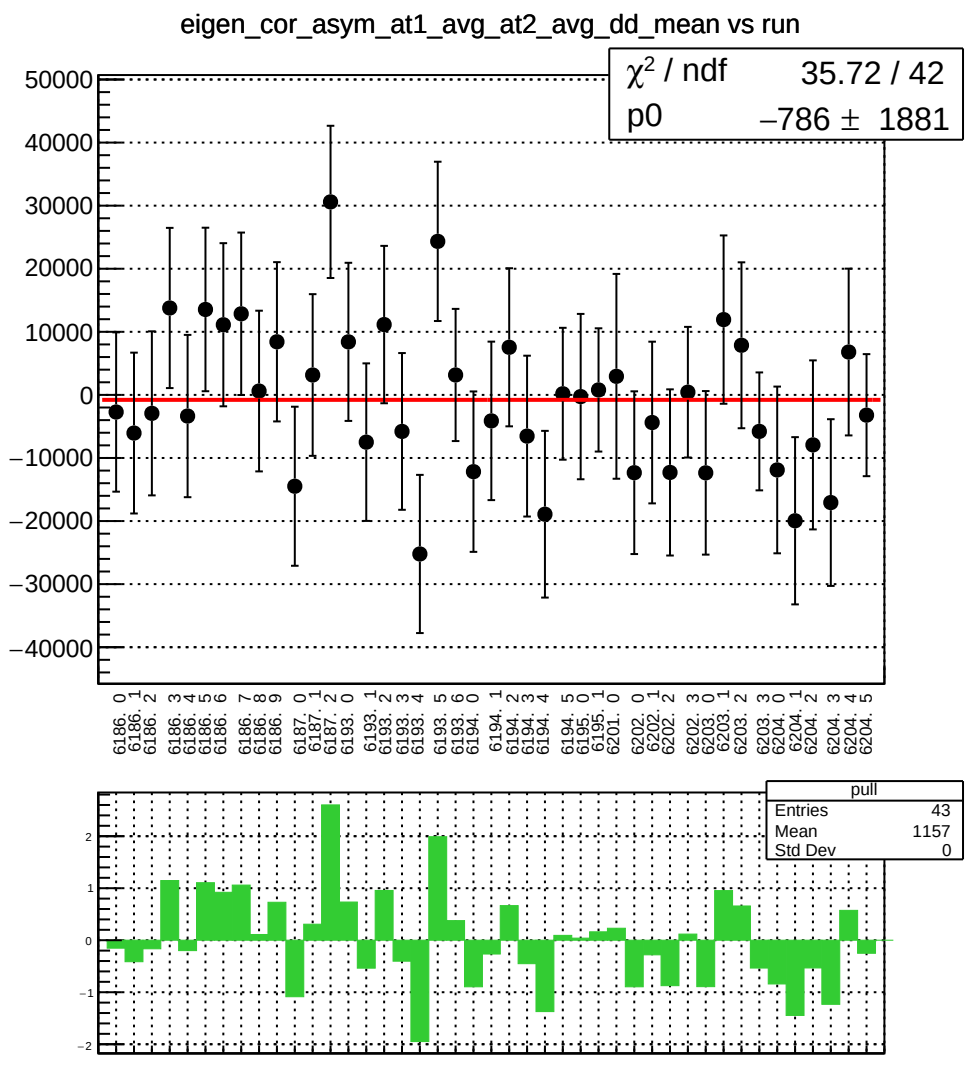
6204. 5


eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 35.72 / 42
p0 −786 ± 1881
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
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pull
Entries 43
Mean 1157
Std Dev 0
2
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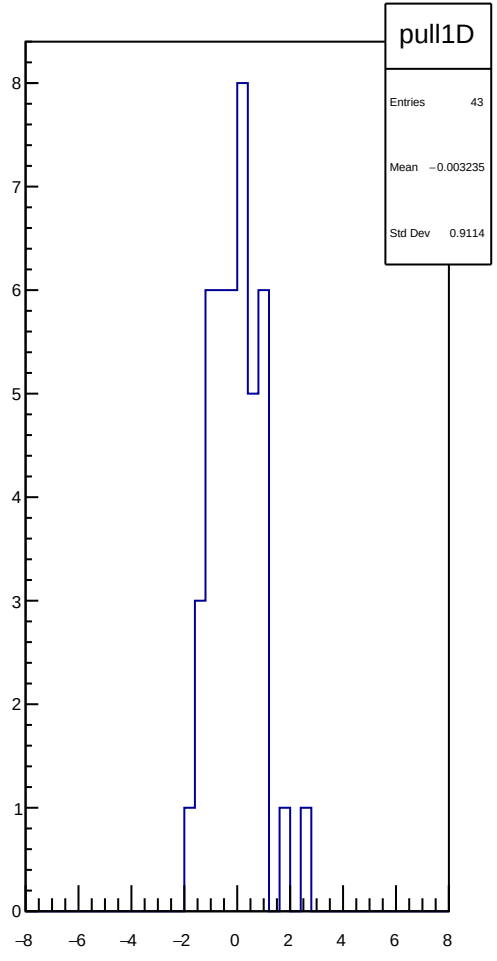
0
−1
−2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Mean −0.003235
Std Dev 0.9114
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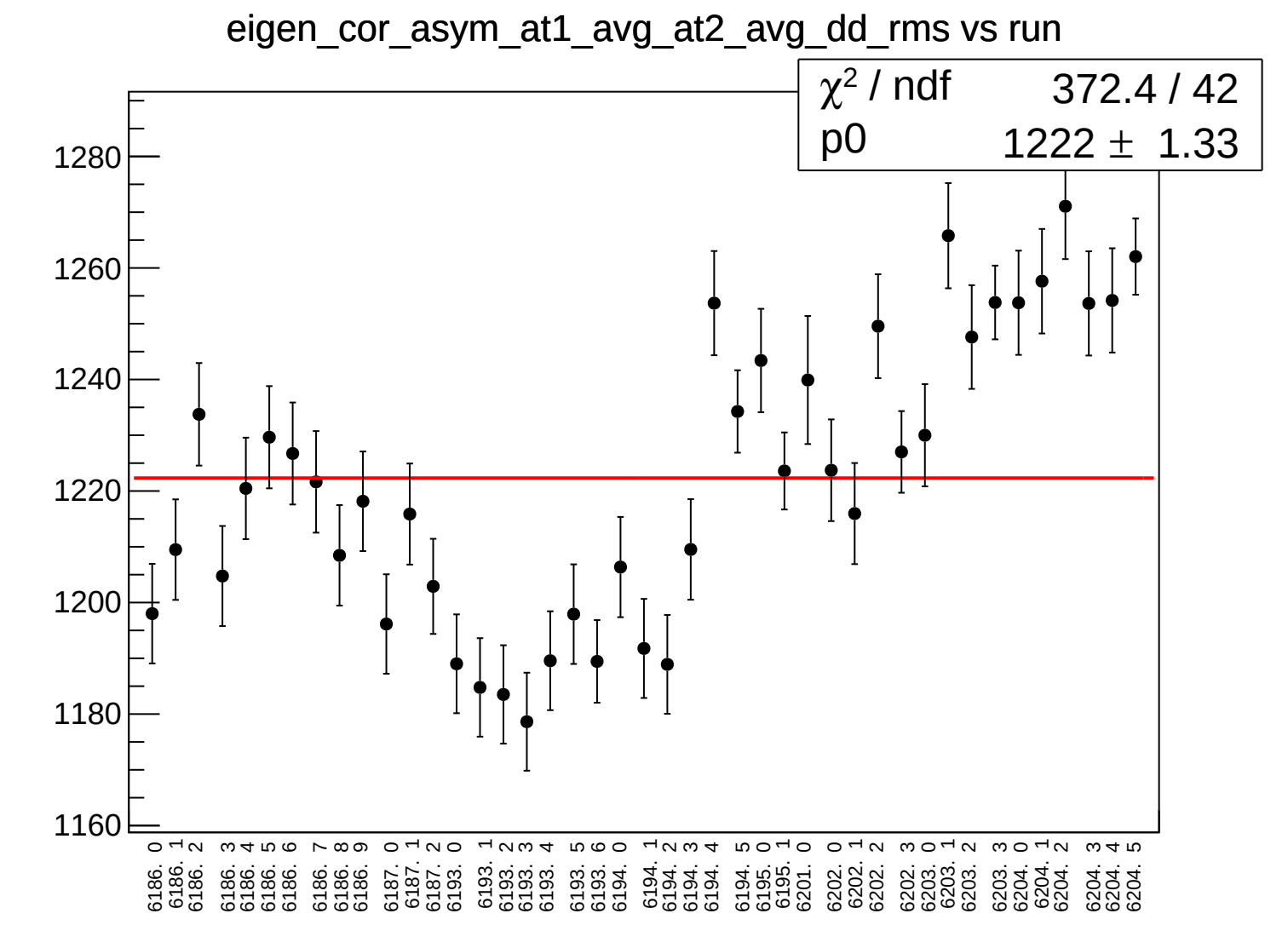
eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 372.4 / 42
p0 1222 ± 1.33
1280
1260
1240
1220
1200
1180
1160
6186. 0
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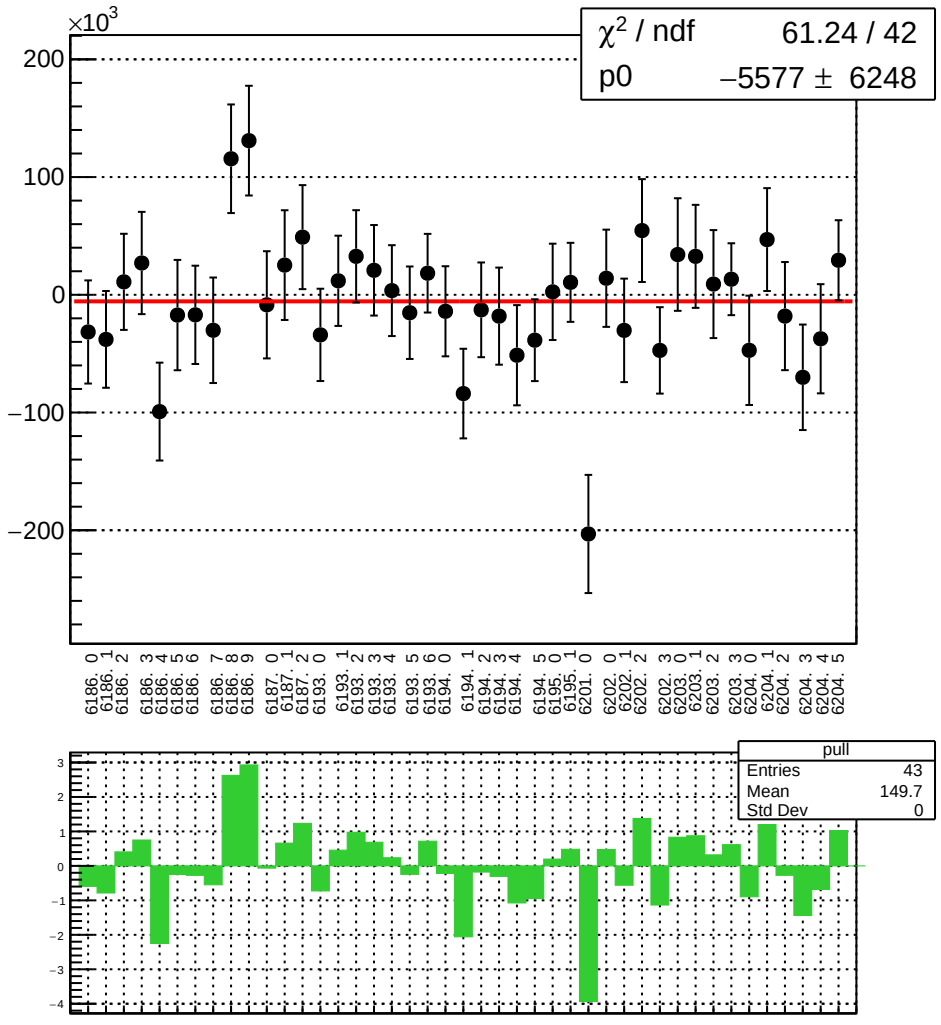
asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 61.24 / 42
p0 −5577 ± 6248
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
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pull
Entries 43
Mean 149.7
Std Dev 0
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−2
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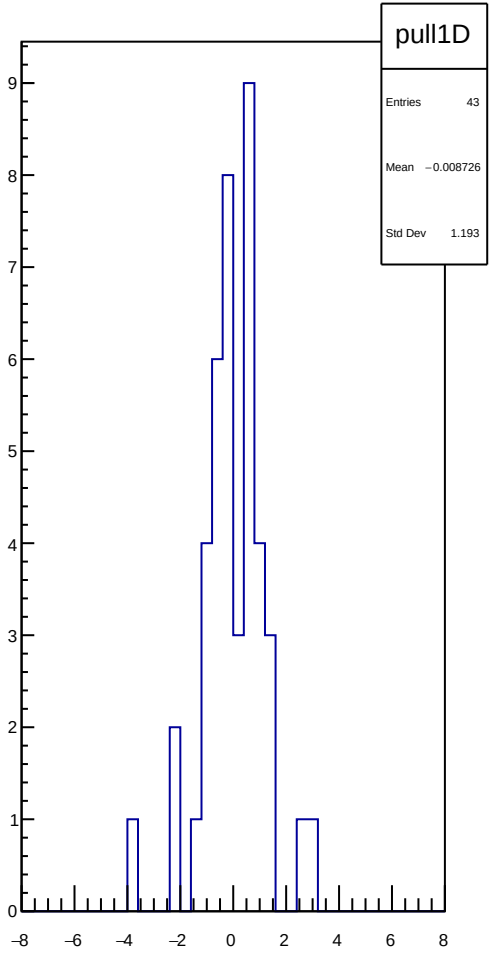
−4


pull1D
Entries 43
Mean −0.008726
Std Dev 1.193
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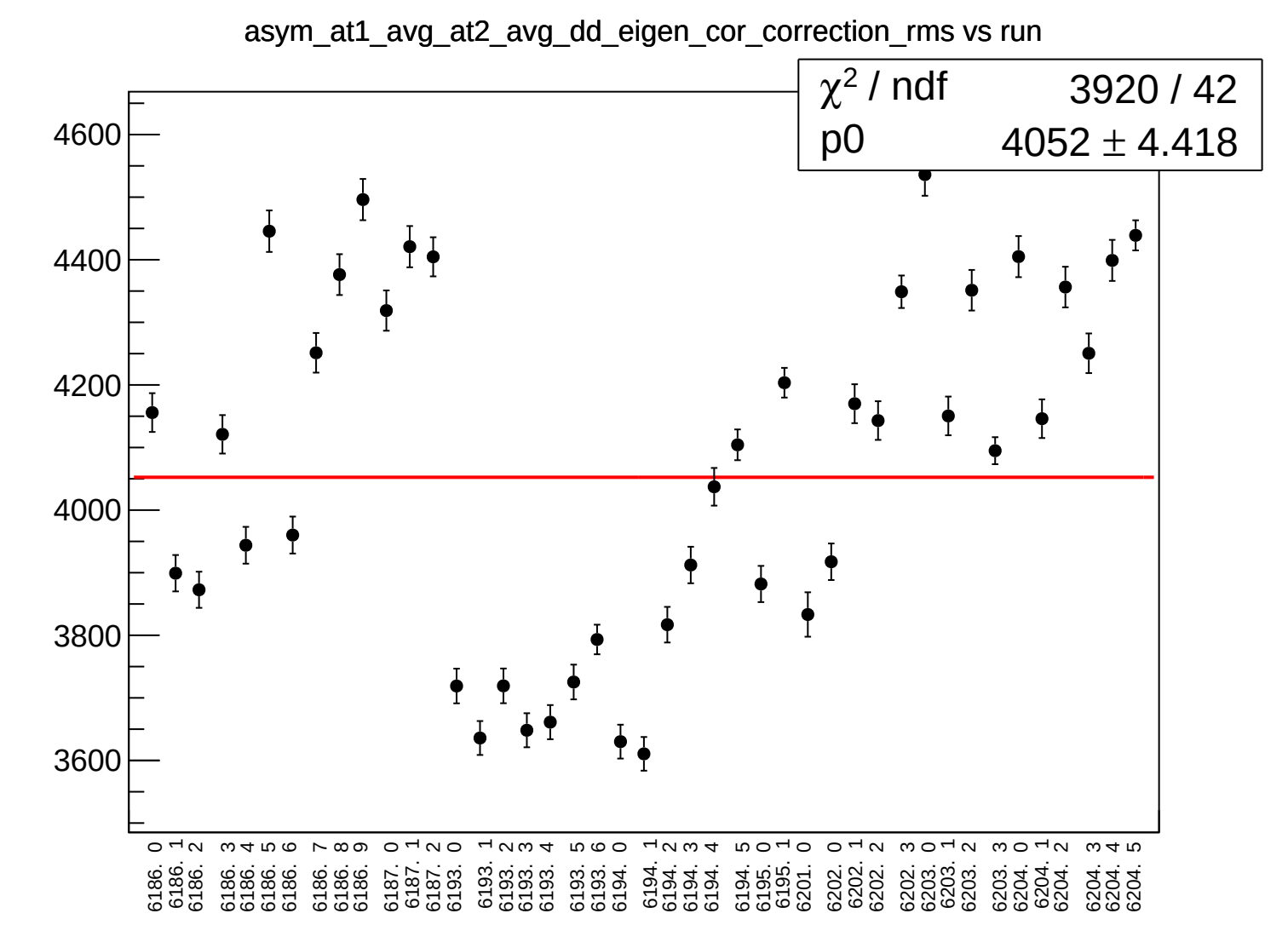
asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3920 / 42
p0 4052 ± 4.418
4600
4400
4200
4000
3800
3600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
6193. 0
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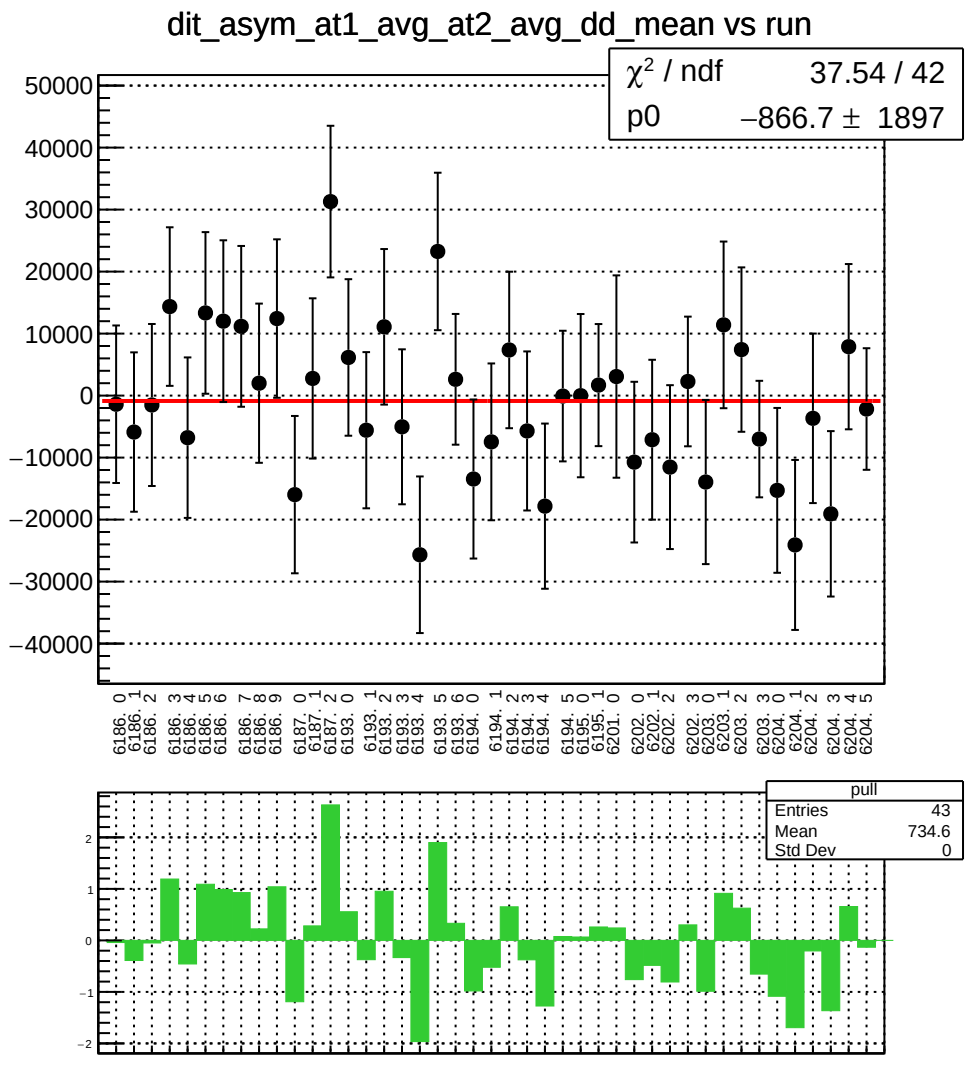
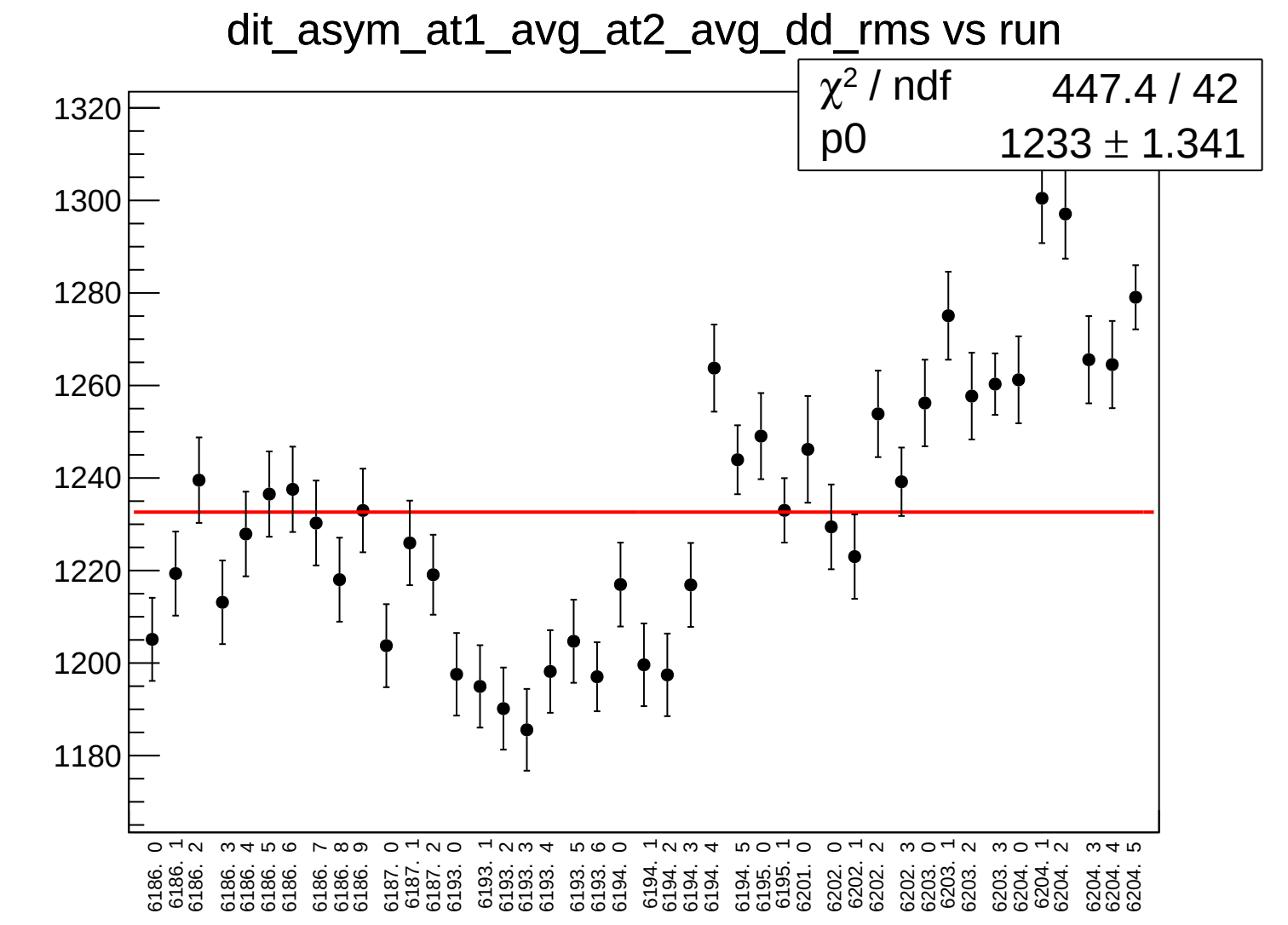

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 37.54 / 42
p0 −866.7 ± 1897
pull
Entries 43
Mean 734.6
Std Dev 0
pull1D
Entries 43
Mean −0.00532
Std Dev 0.9343


dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 447.4 / 42
p0 1233 ± 1.341
1320
1300
1280
1260
1240
1220
1200
1180
6186. 0
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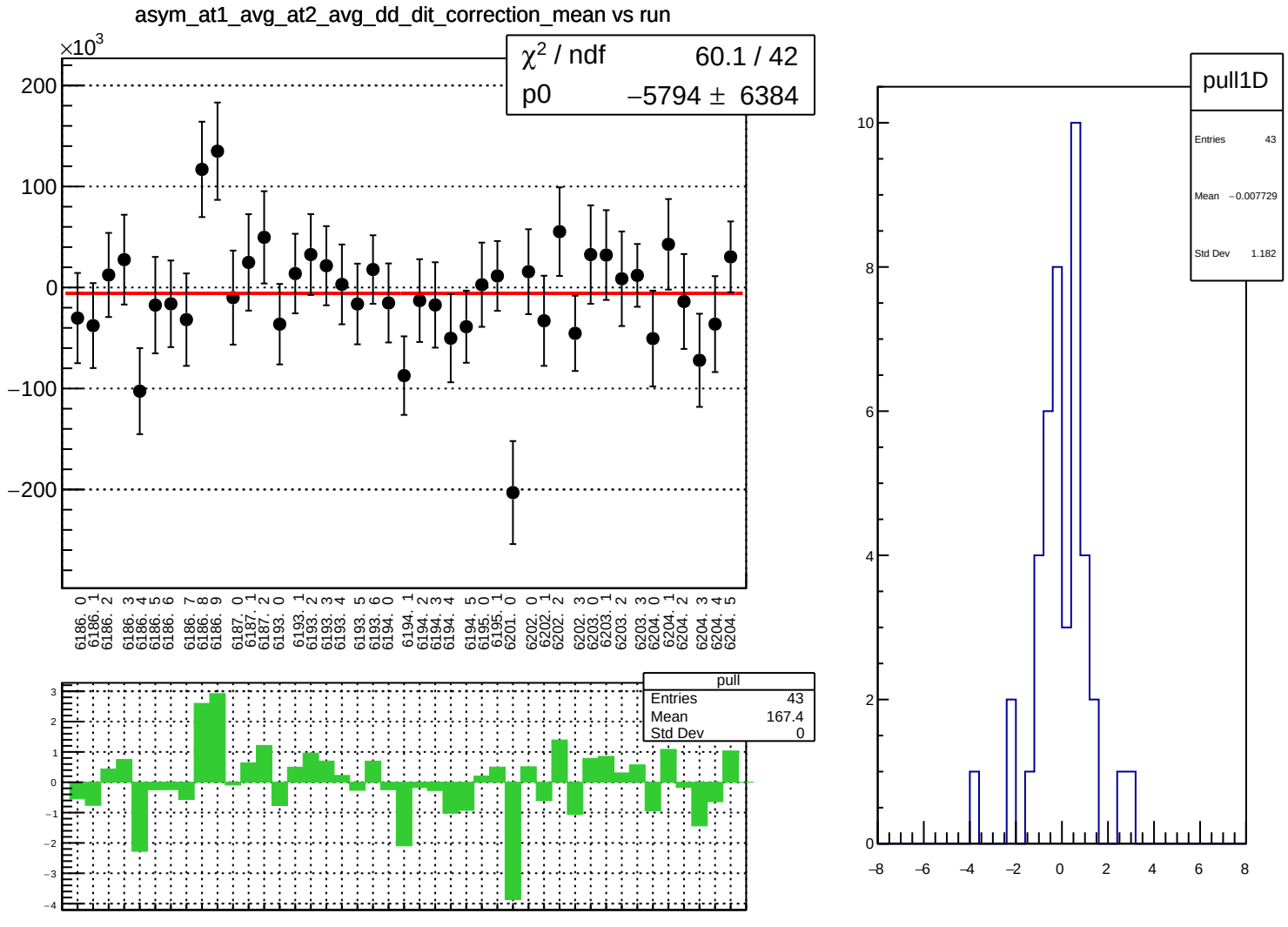
asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 60.1 / 42
p0 −5794 ± 6384
200
100
0
−100
−200
6186. 0
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6204. 4
6204. 5
pull
Entries 43
Mean 167.4
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.007729
Std Dev 1.182
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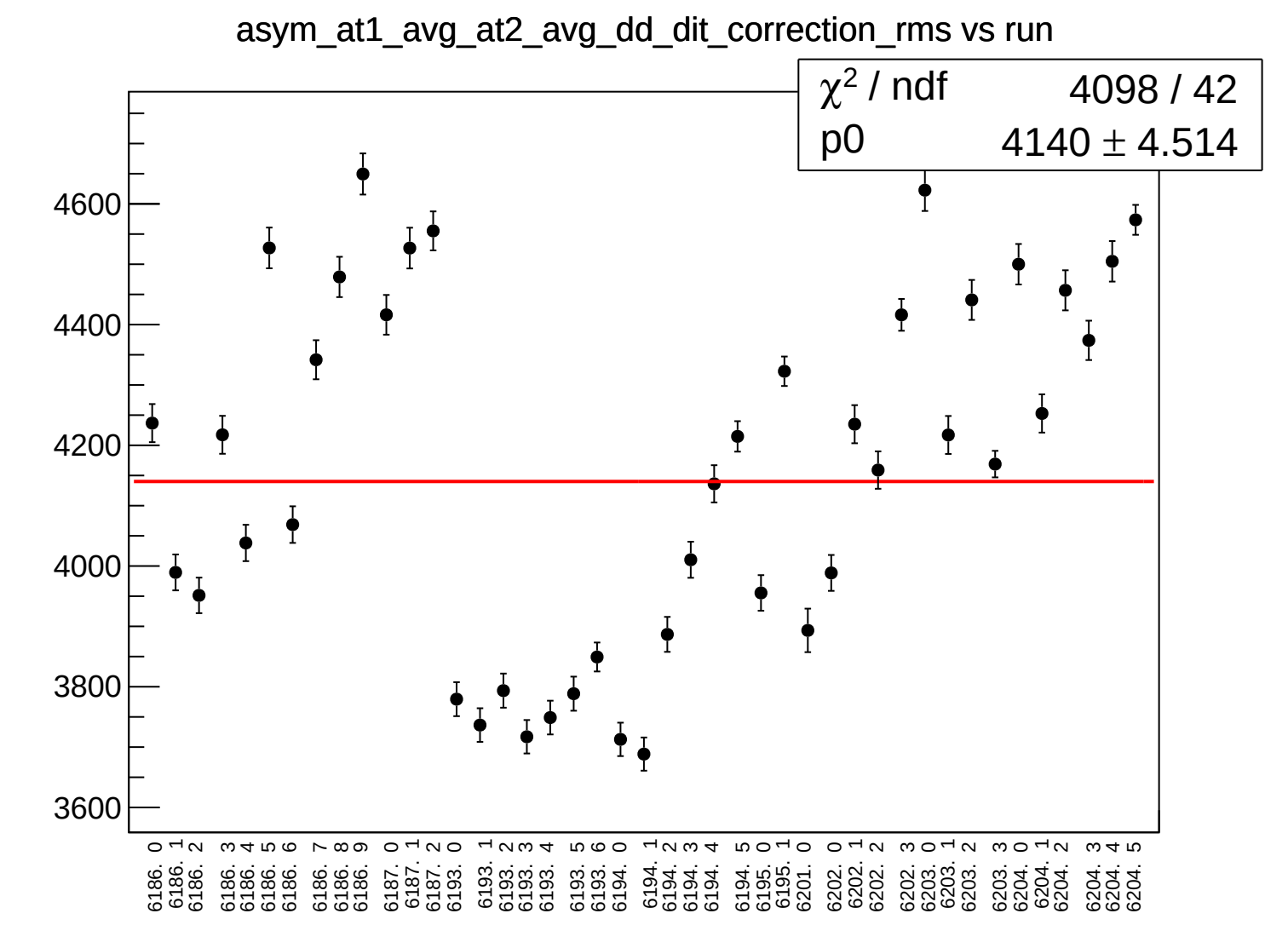
8


asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 4098 / 42
p0 4140 ± 4.514
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4400
4200
4000
3800
3600
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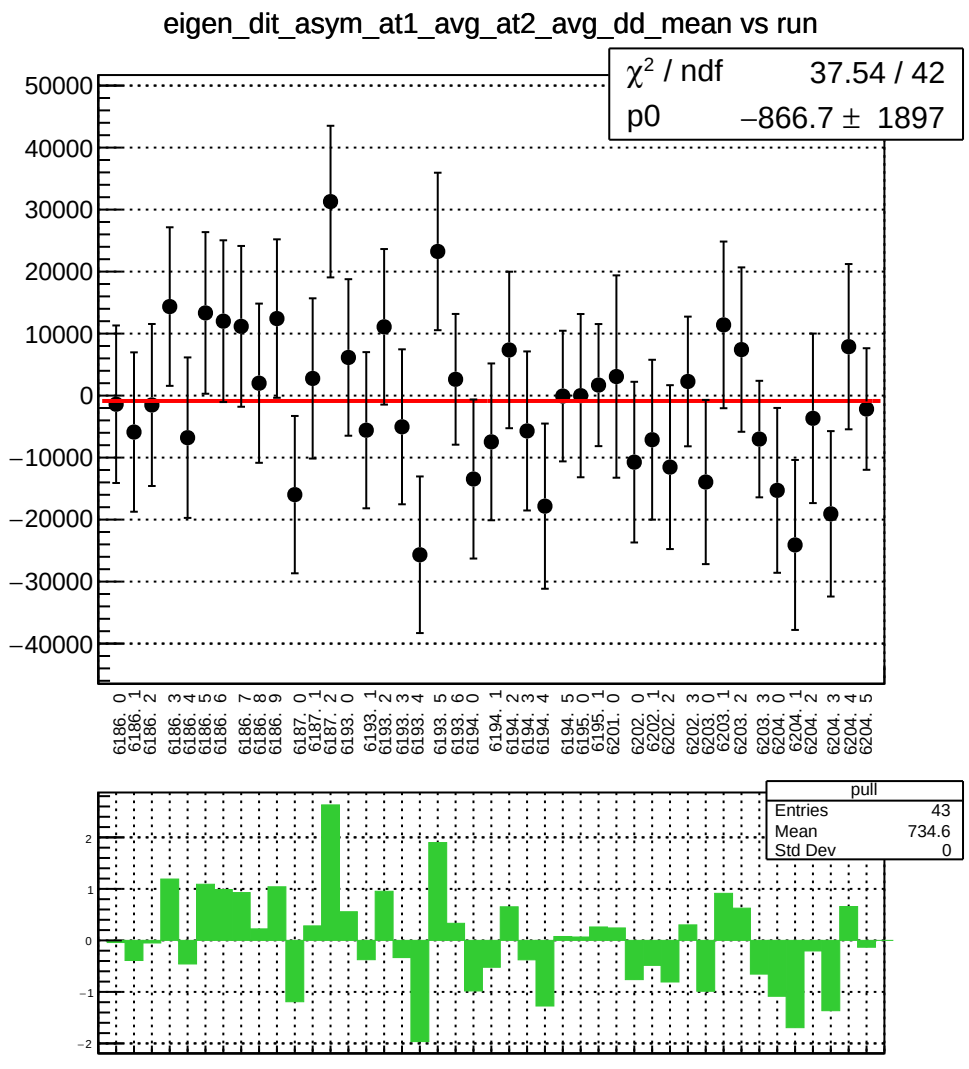
6204. 5


eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 37.54 / 42
p0 −866.7 ± 1897
50000
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20000
10000
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−10000
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−30000
−40000
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pull
Entries 43
Mean 734.6
Std Dev 0
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1
0
−1
−2
pull1D
Entries 43
Mean −0.00532
Std Dev 0.9343
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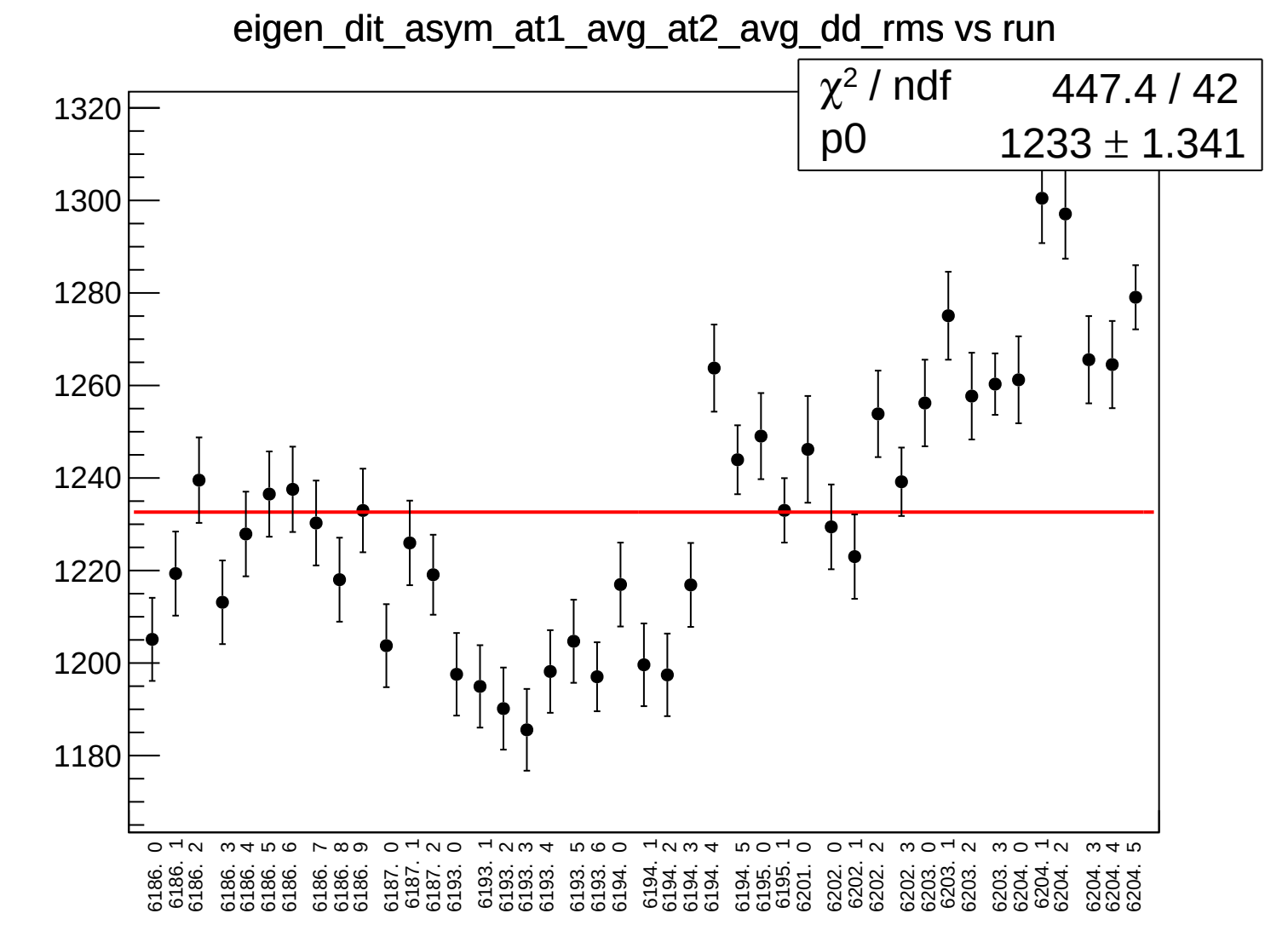
eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 447.4 / 42
p0 1233 ± 1.341
1320
1300
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1260
1240
1220
1200
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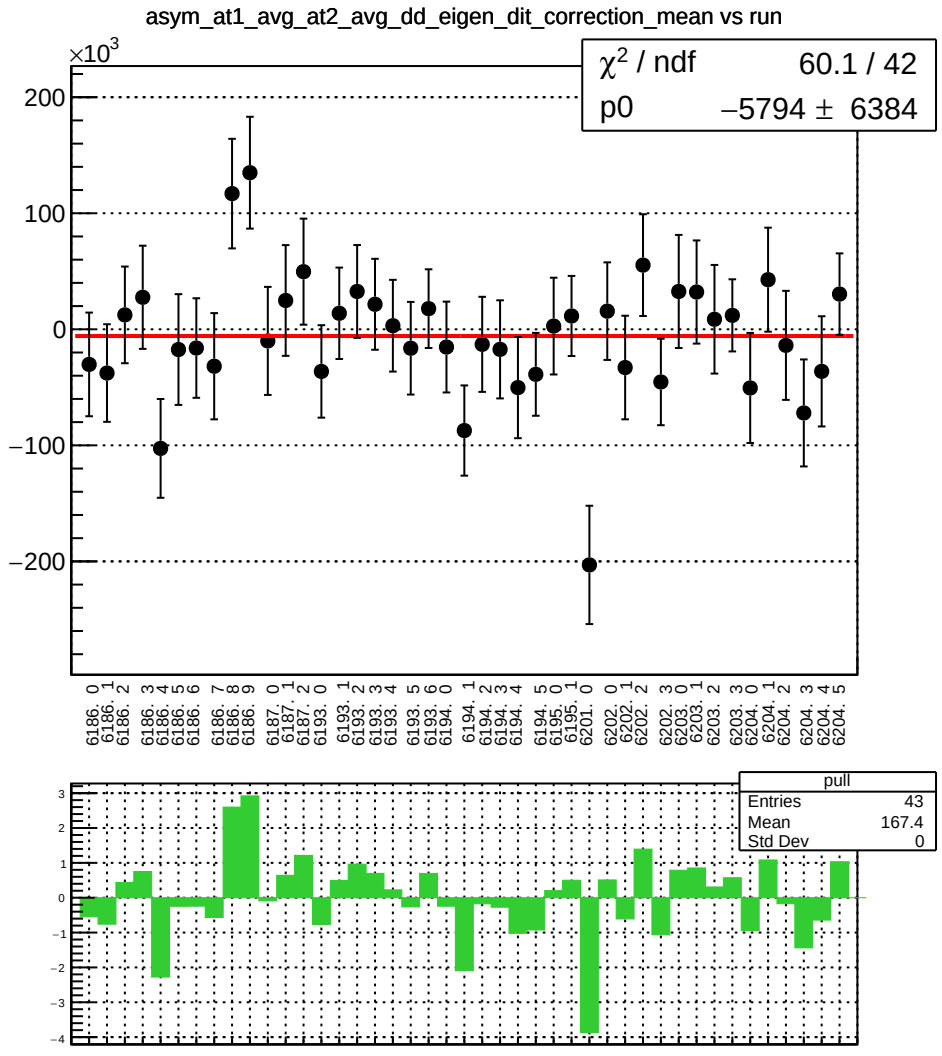
asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 60.1 / 42
p0 −5794 ± 6384
200
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6186. 0
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pull
Entries 43
Mean 167.4
Std Dev 0
3
2
1
0
−1
−2
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−4
pull1D
Entries 43
Mean −0.007729
Std Dev 1.182
10
8
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−6
−4
−2
0
2
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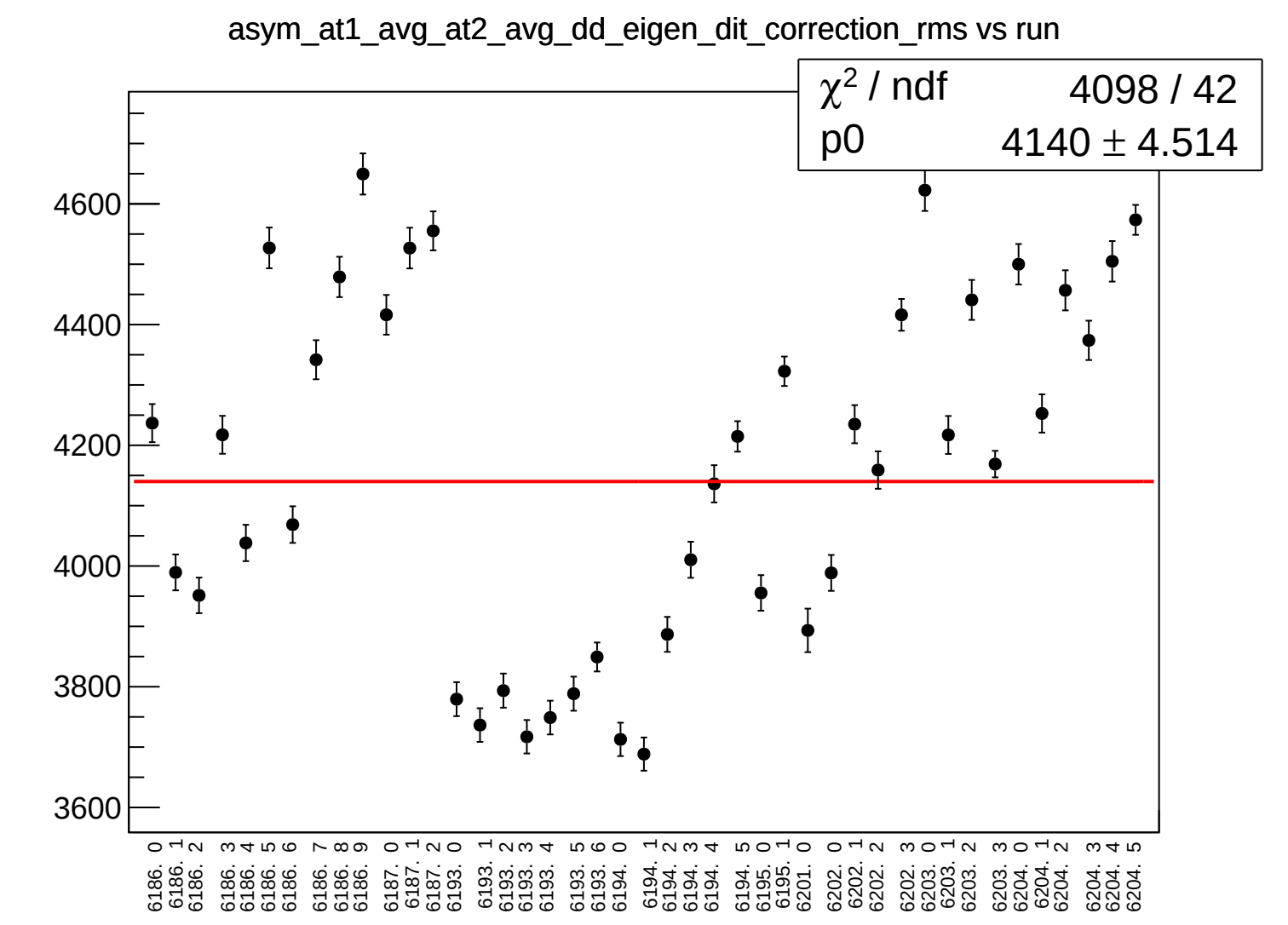
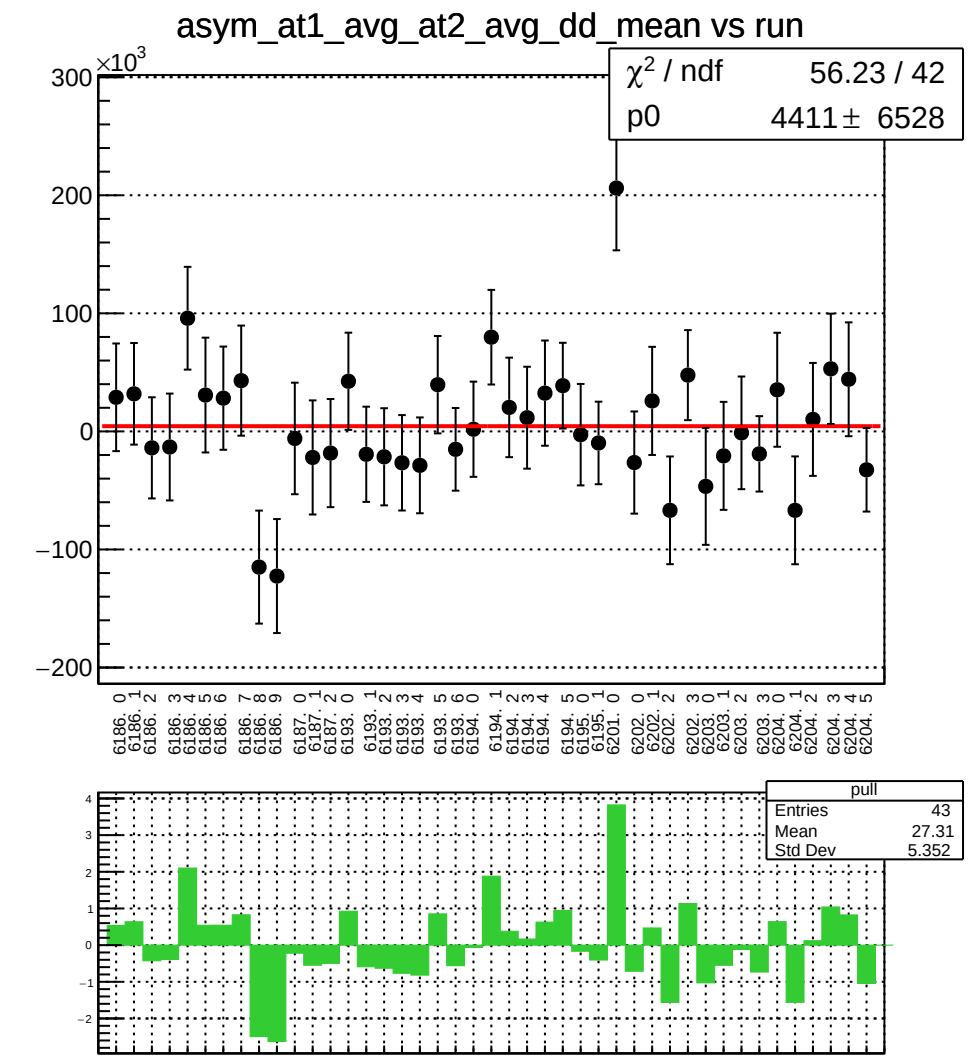
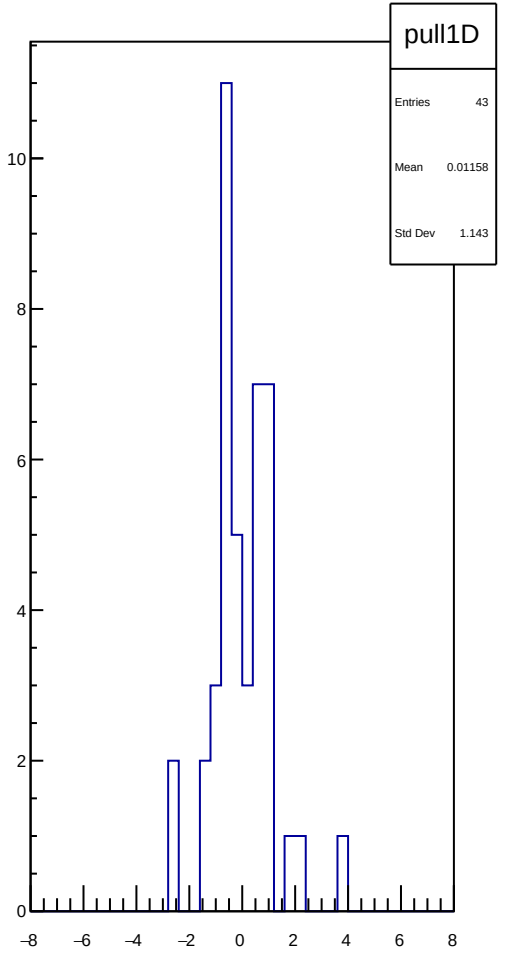
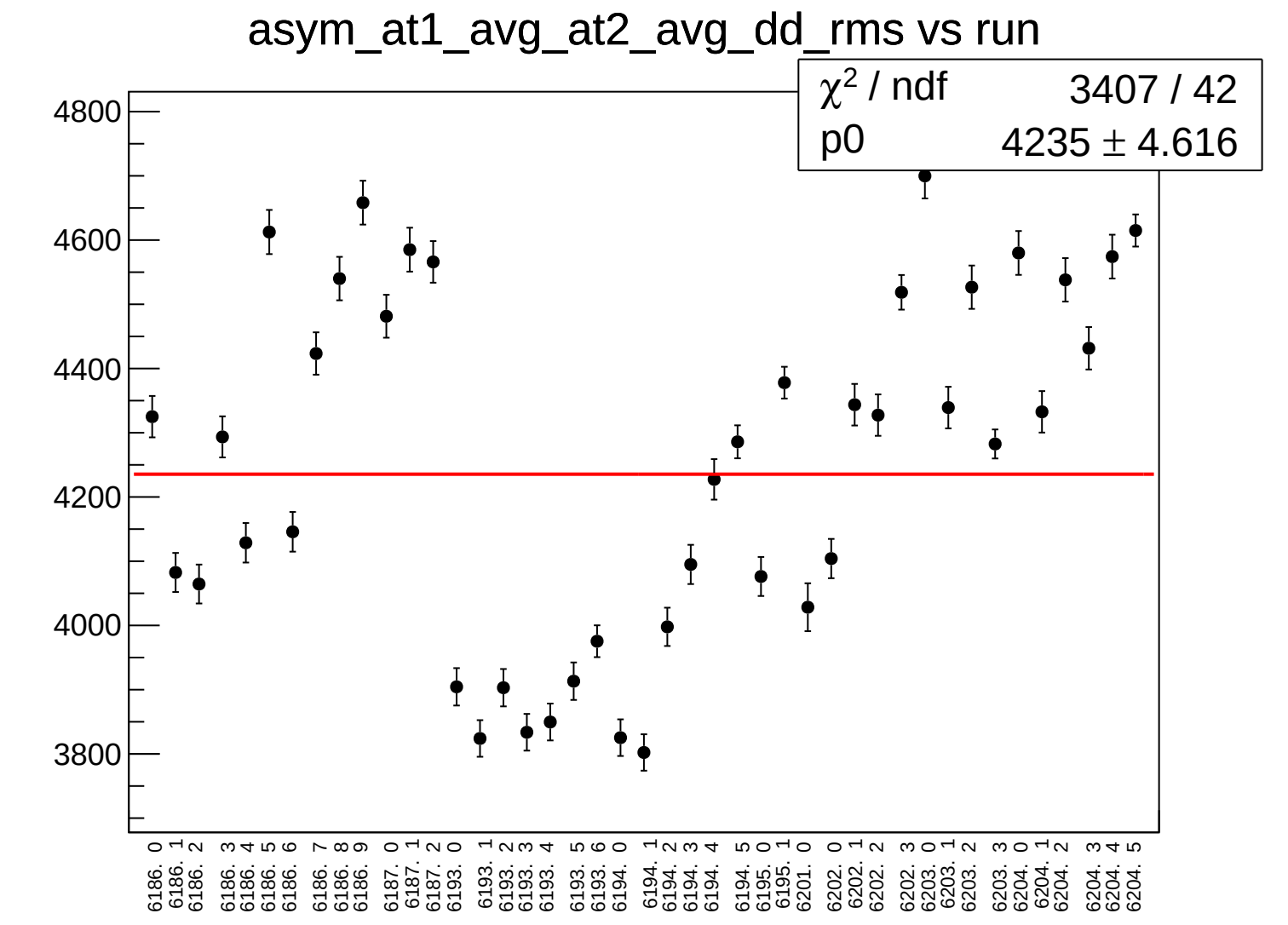
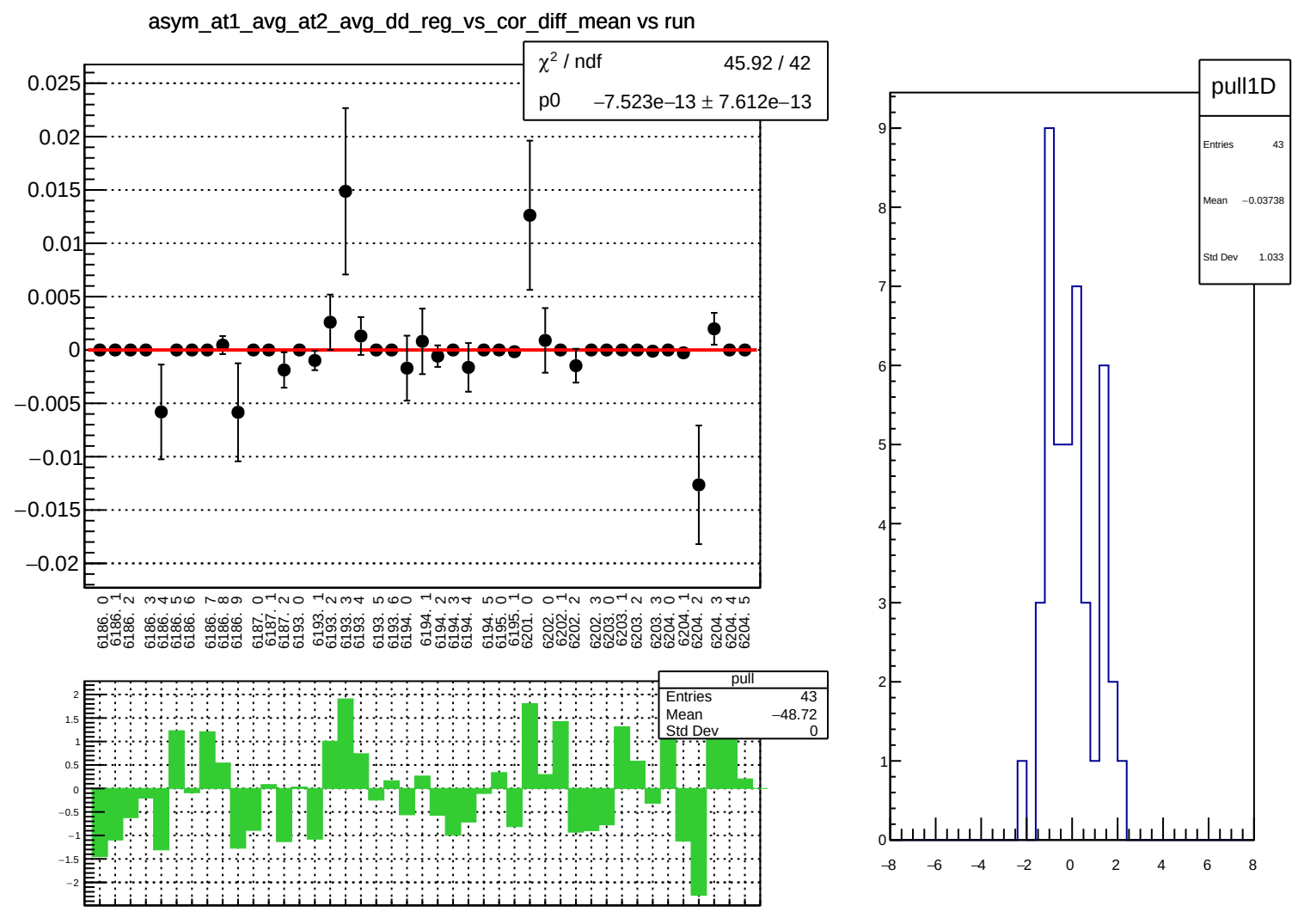
6
8

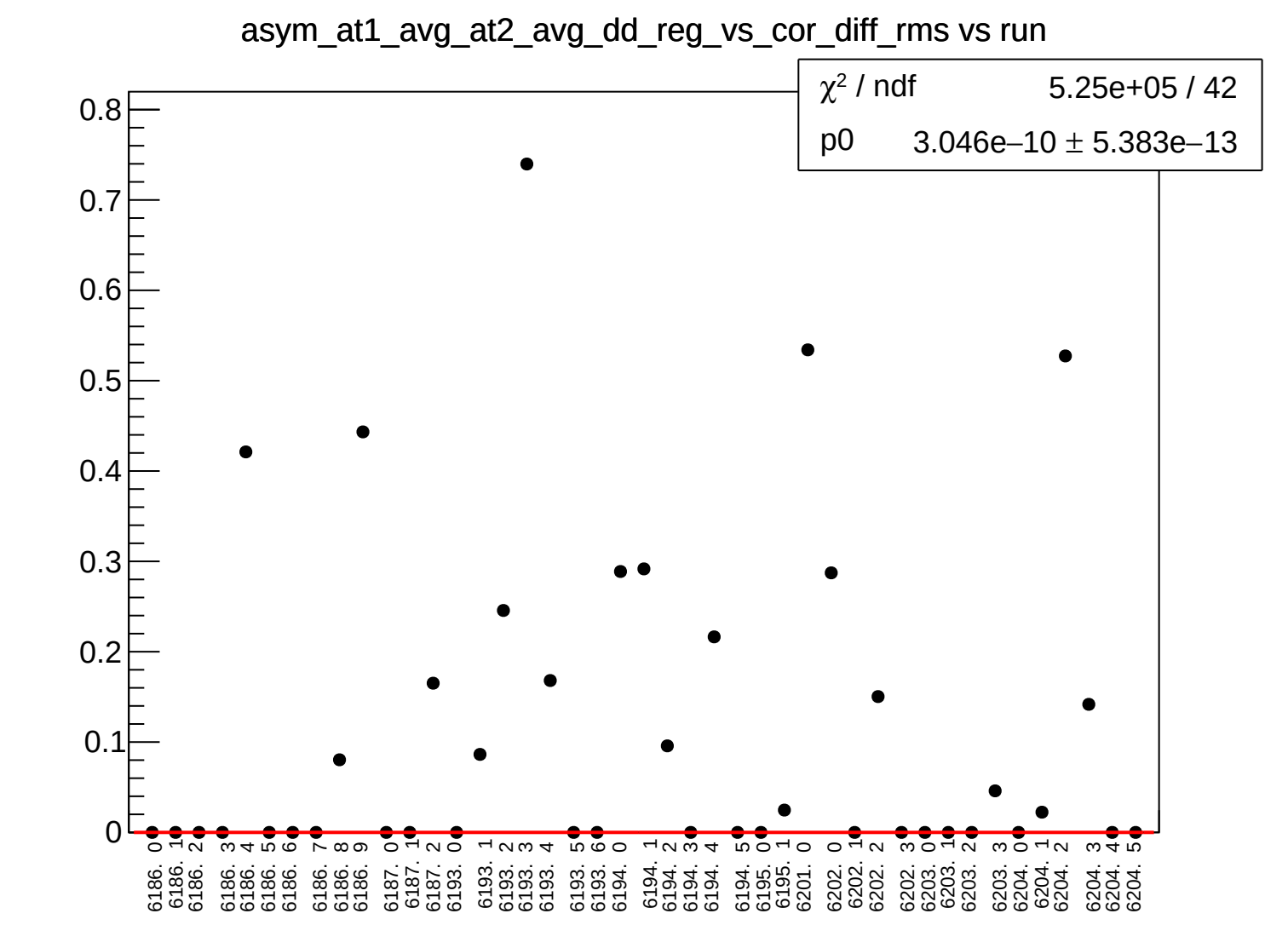

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4098 / 42
p0 4140 ± 4.514
4600
4400
4200
4000
3800
3600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

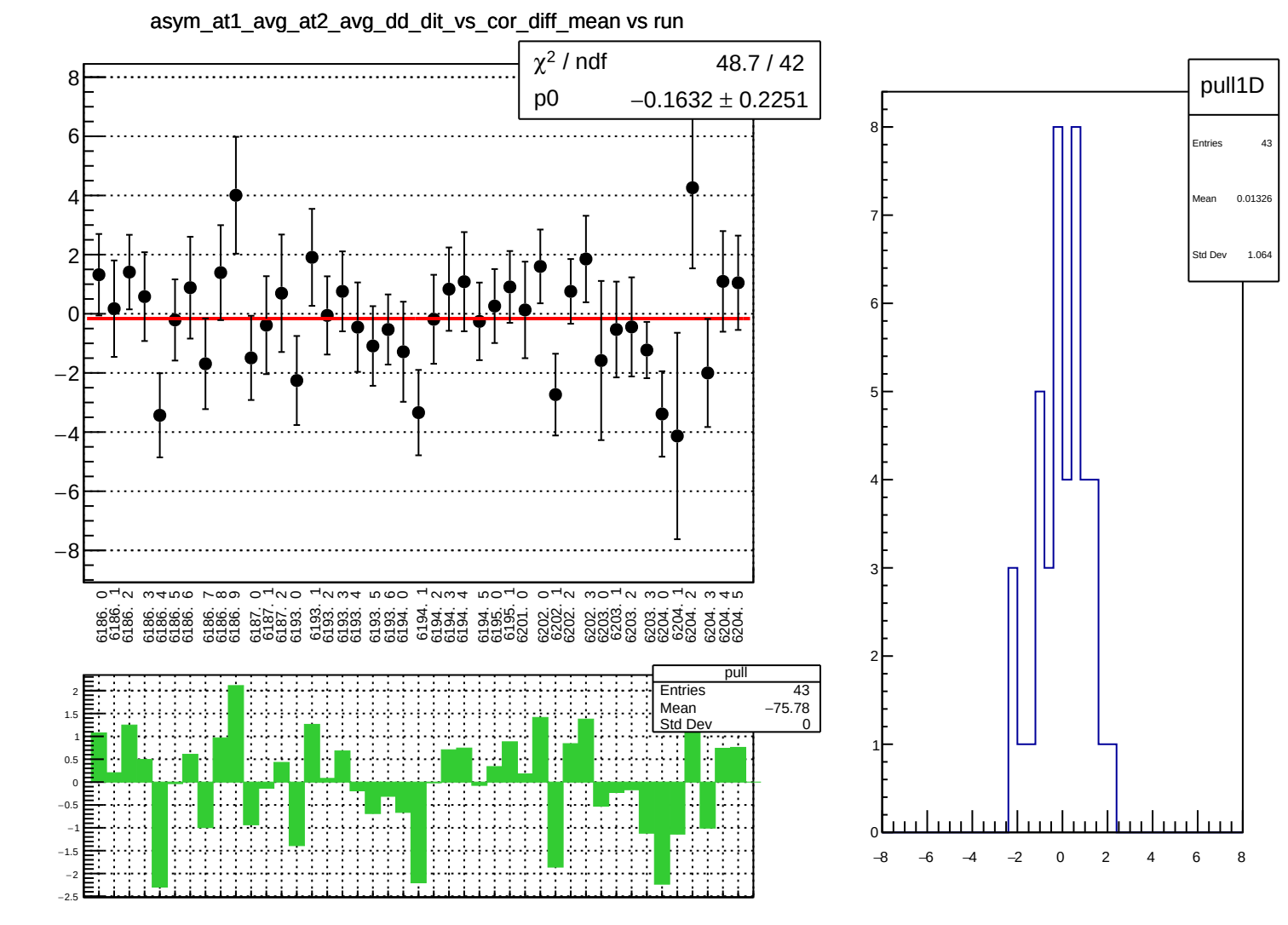

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 56.23 / 42
p0 4411 ± 6528
300
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 27.31
Std Dev 5.352
4
3
2
1
0
−1
−2

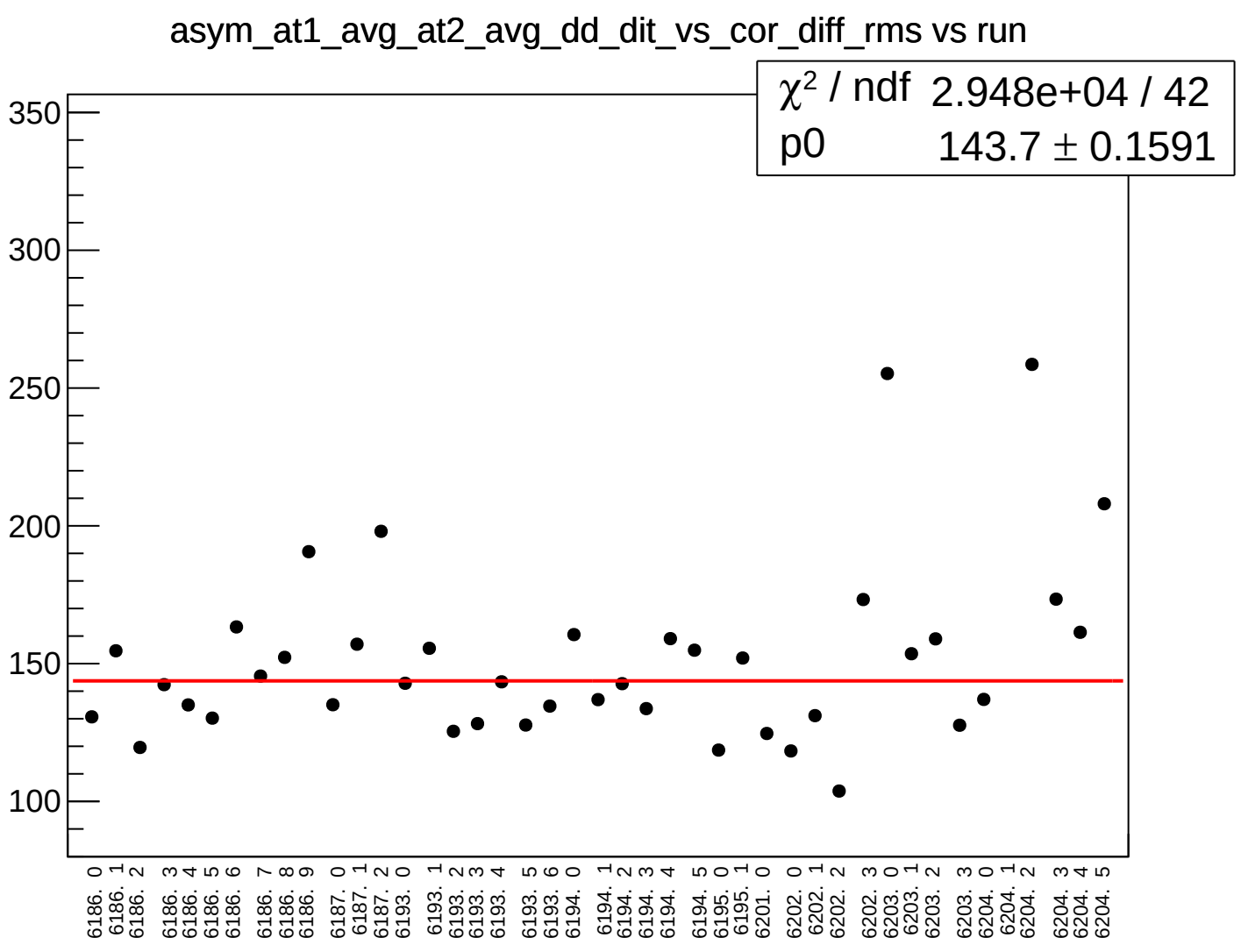

pull1D
Entries 43
Mean 0.01158
Std Dev 1.143
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

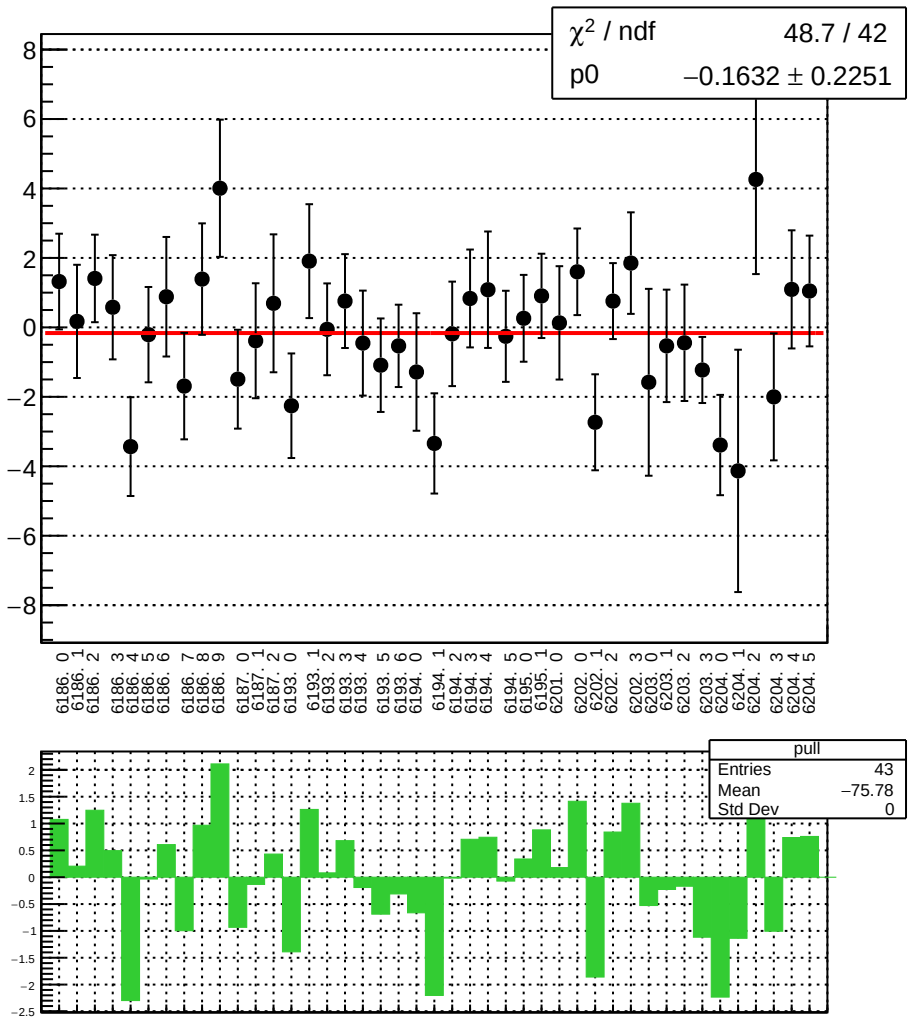

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 3407 / 42
p0 4235 ± 4.616
4800
4600
4400
4200
4000
3800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

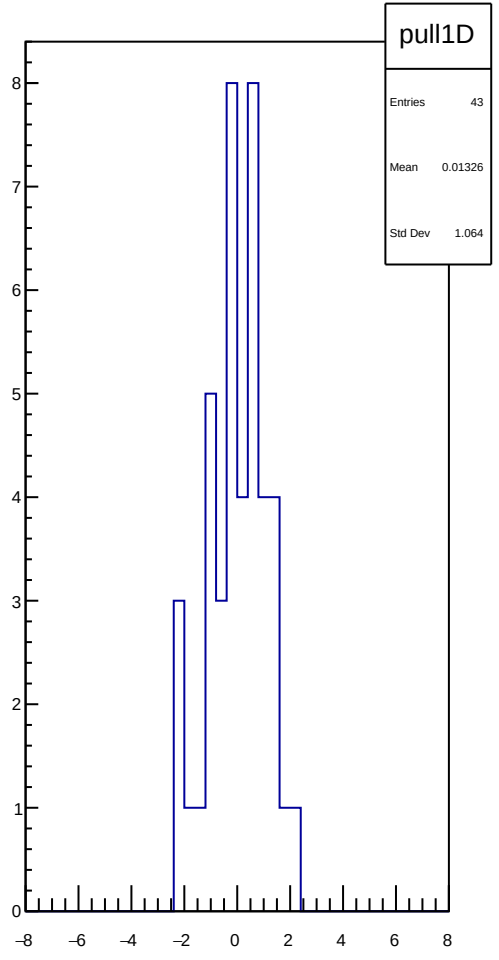

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 45.92 / 42
p0 −7.523e−13 ± 7.612e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −48.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03738
Std Dev 1.033
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

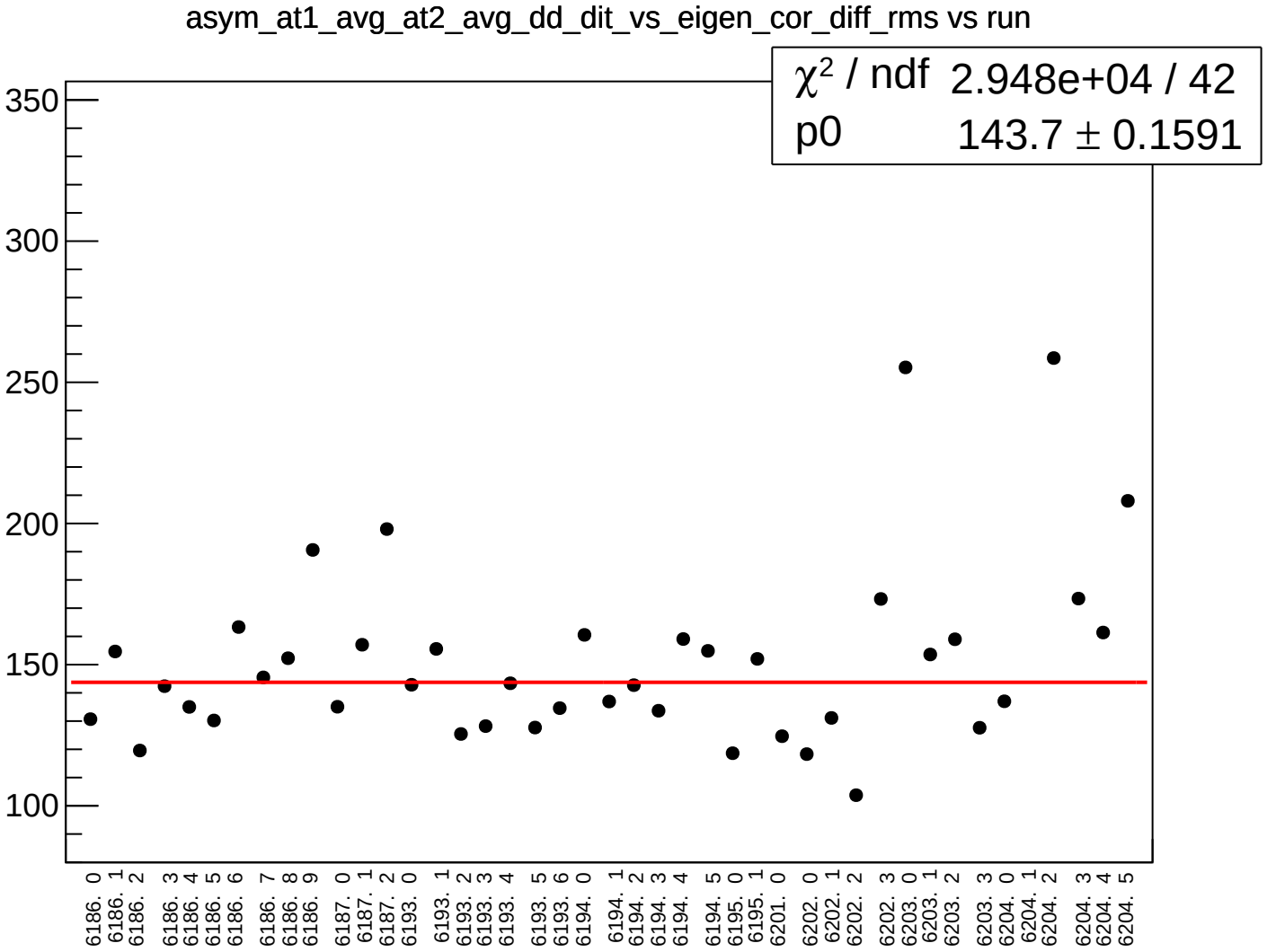

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.25e+05 / 42
p0 3.046e−10 ± 5.383e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

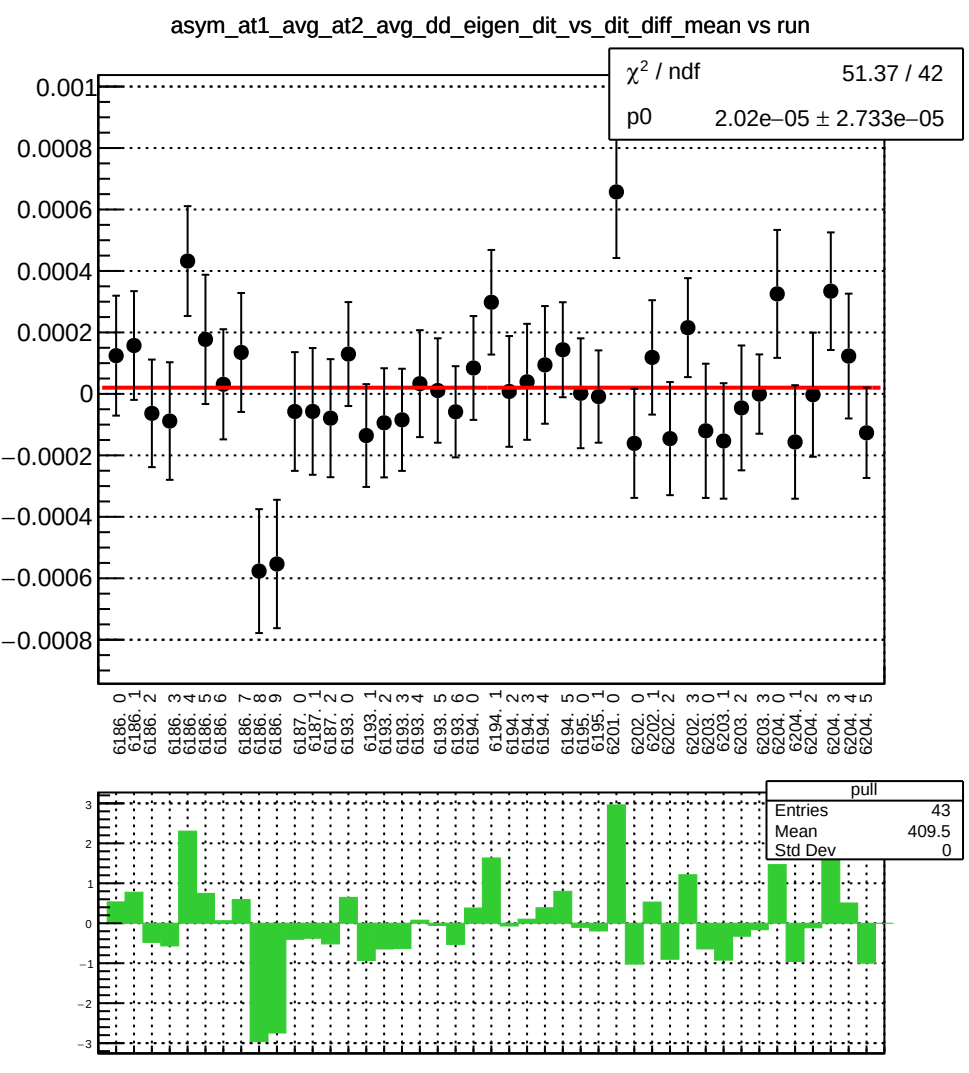

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 48.7 / 42
p0 −0.1632 ± 0.2251
pull
Entries 43
Mean −75.78
Std Dev 0
pull1D
Entries 43
Mean 0.01326
Std Dev 1.064

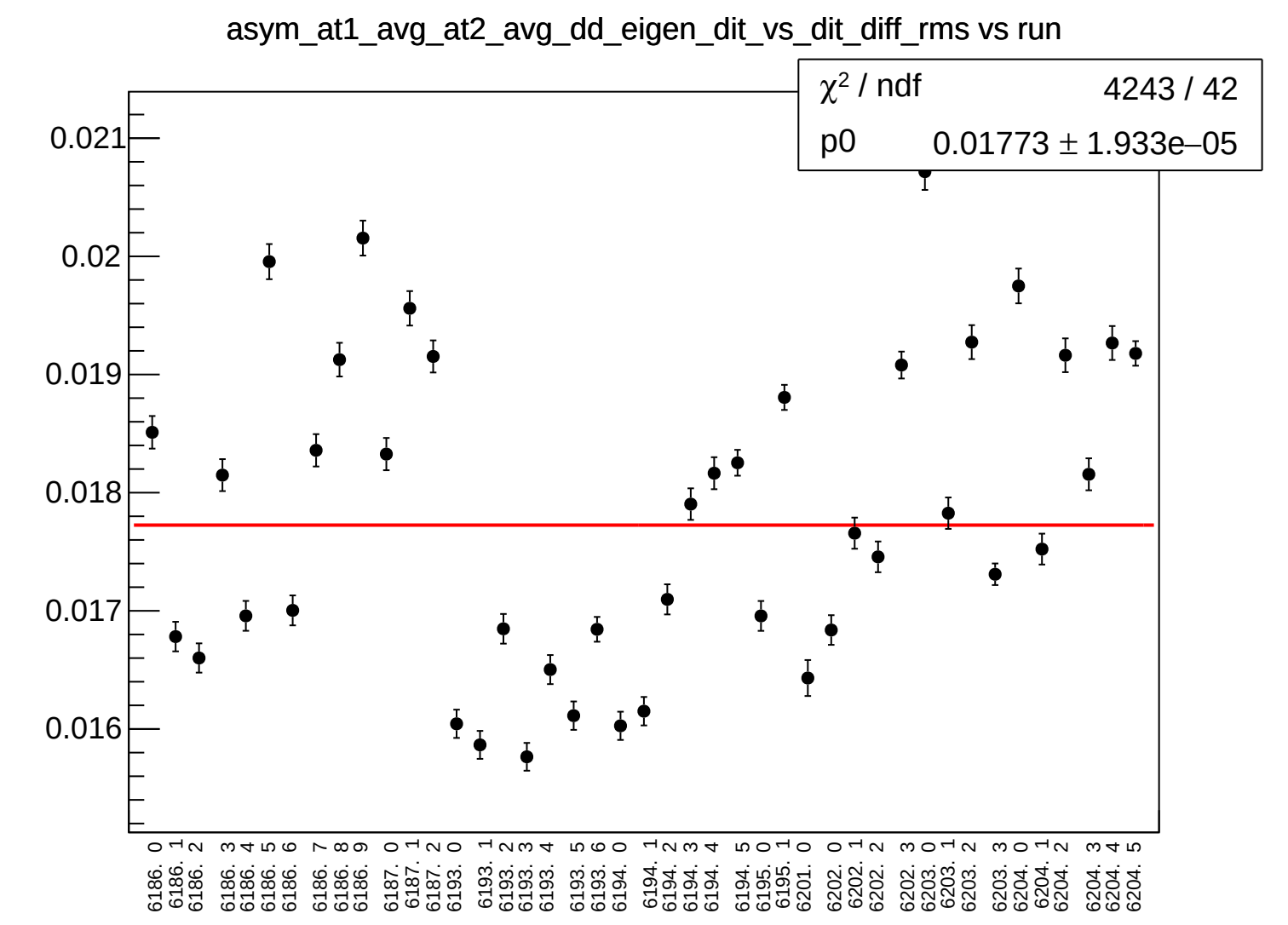

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.948e+04 / 42
p0 143.7 ± 0.1591
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

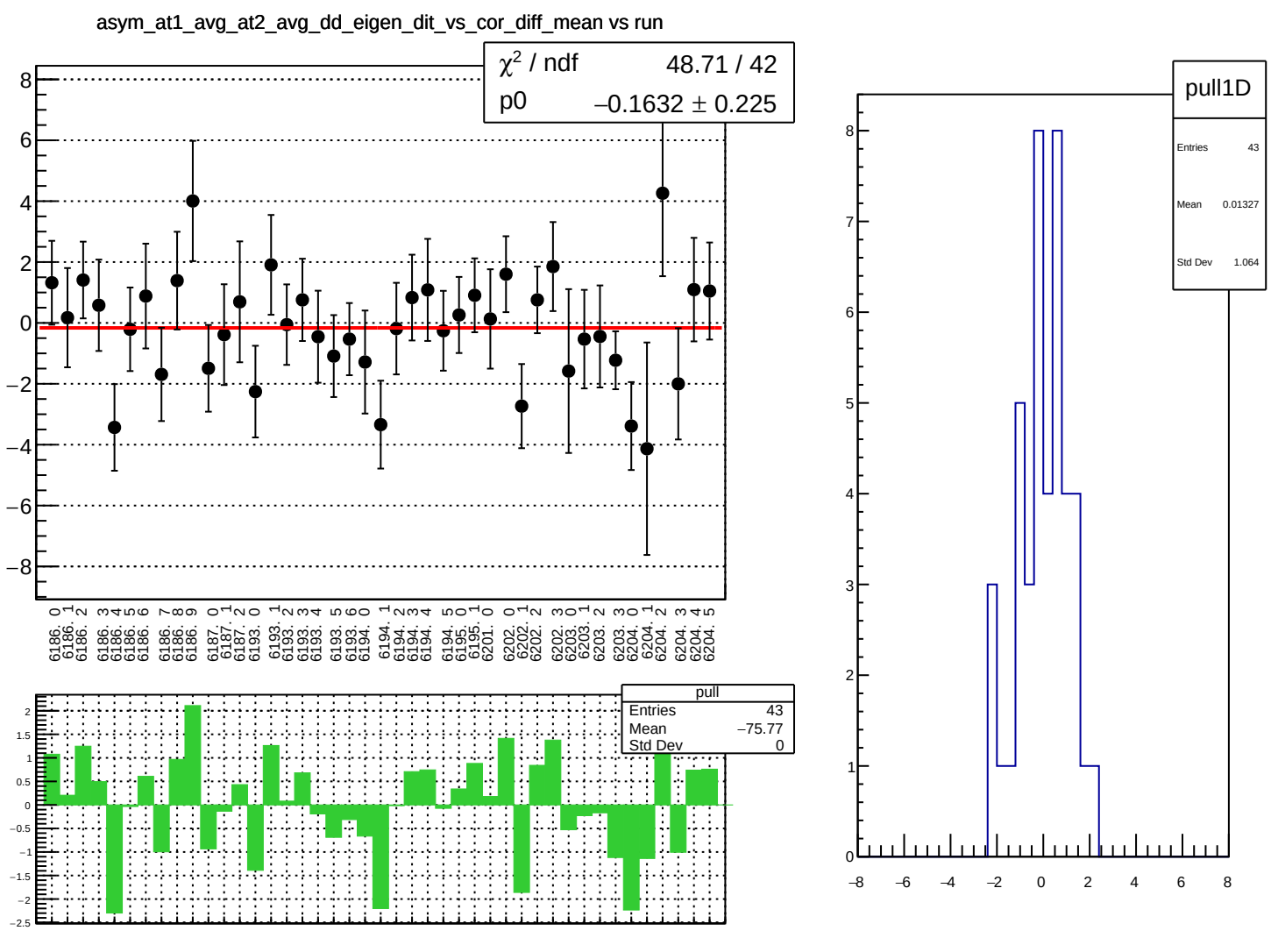

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.7 / 42
p0 −0.1632 ± 0.2251
pull
Entries 43
Mean −75.78
Std Dev 0

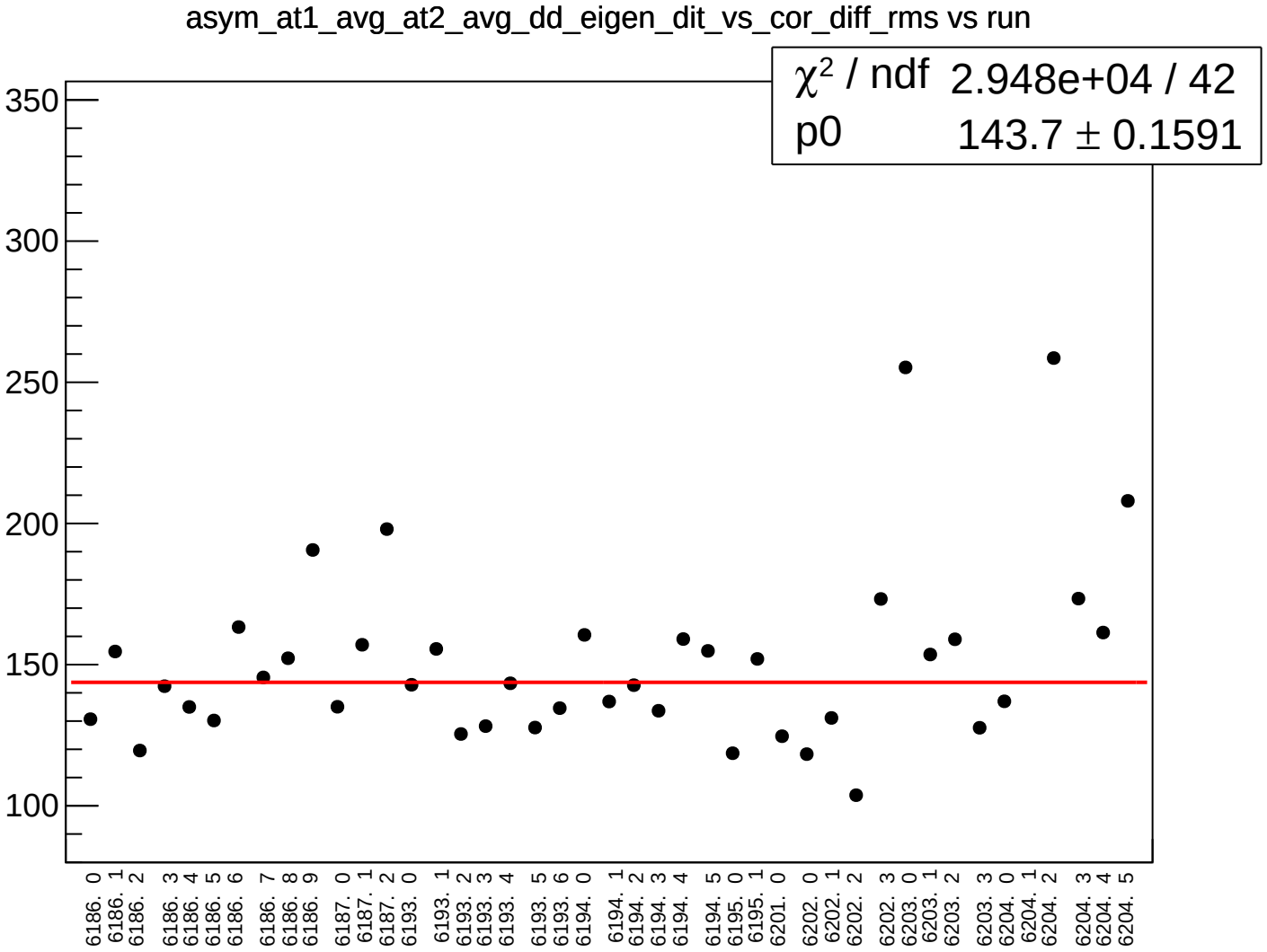

pull1D
Entries 43
Mean 0.01326
Std Dev 1.064

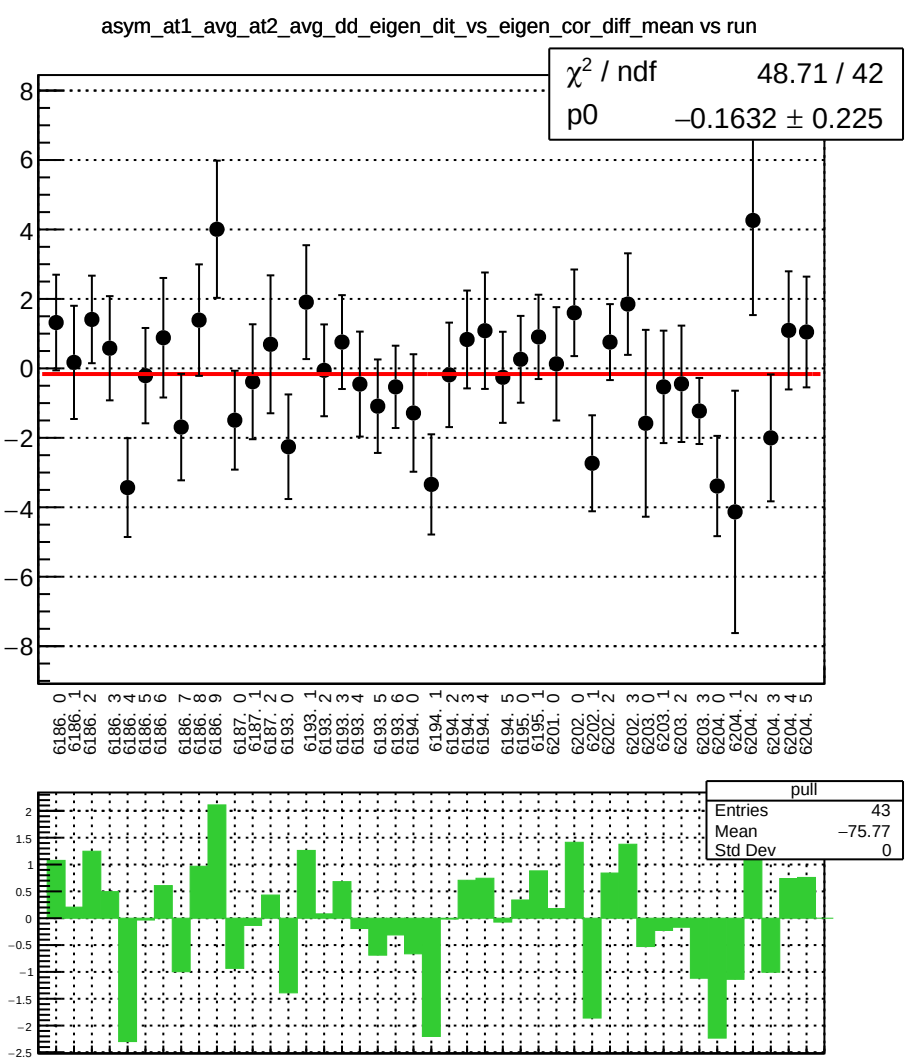

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.948e+04 / 42
p0 143.7 ± 0.1591
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

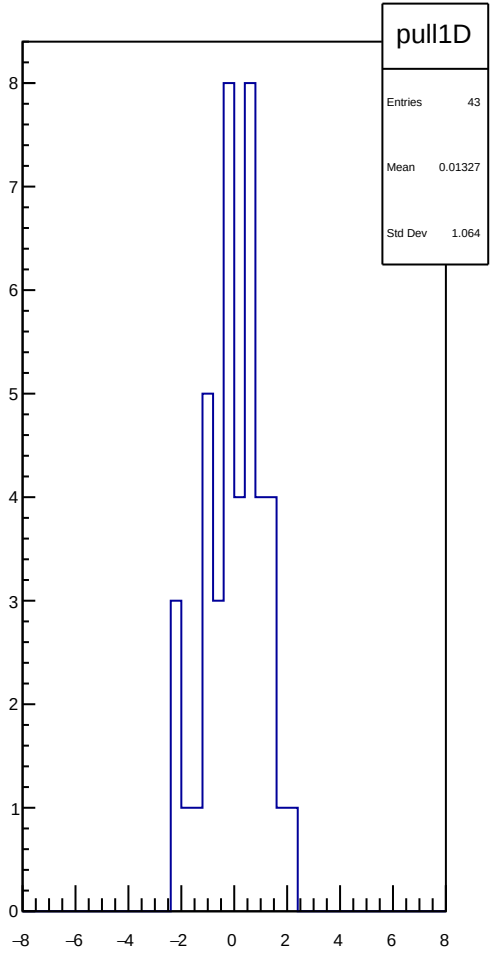

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 51.37 / 42
p0 2.02e−05 ± 2.733e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 409.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.002918
Std Dev 1.093
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

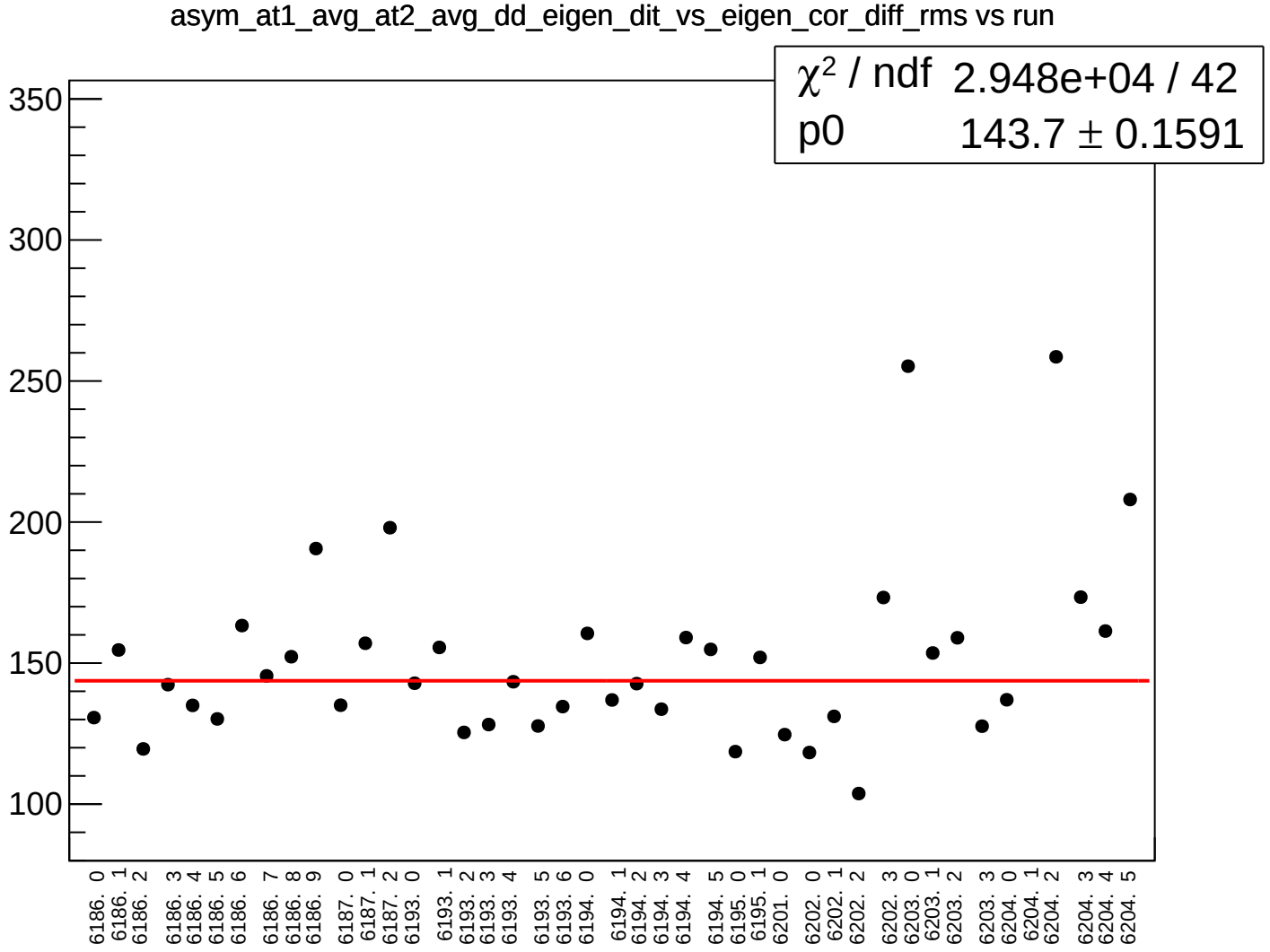

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4243 / 42
p0 0.01773 ± 1.933e−05
0.021
0.02
0.019
0.018
0.017
0.016
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

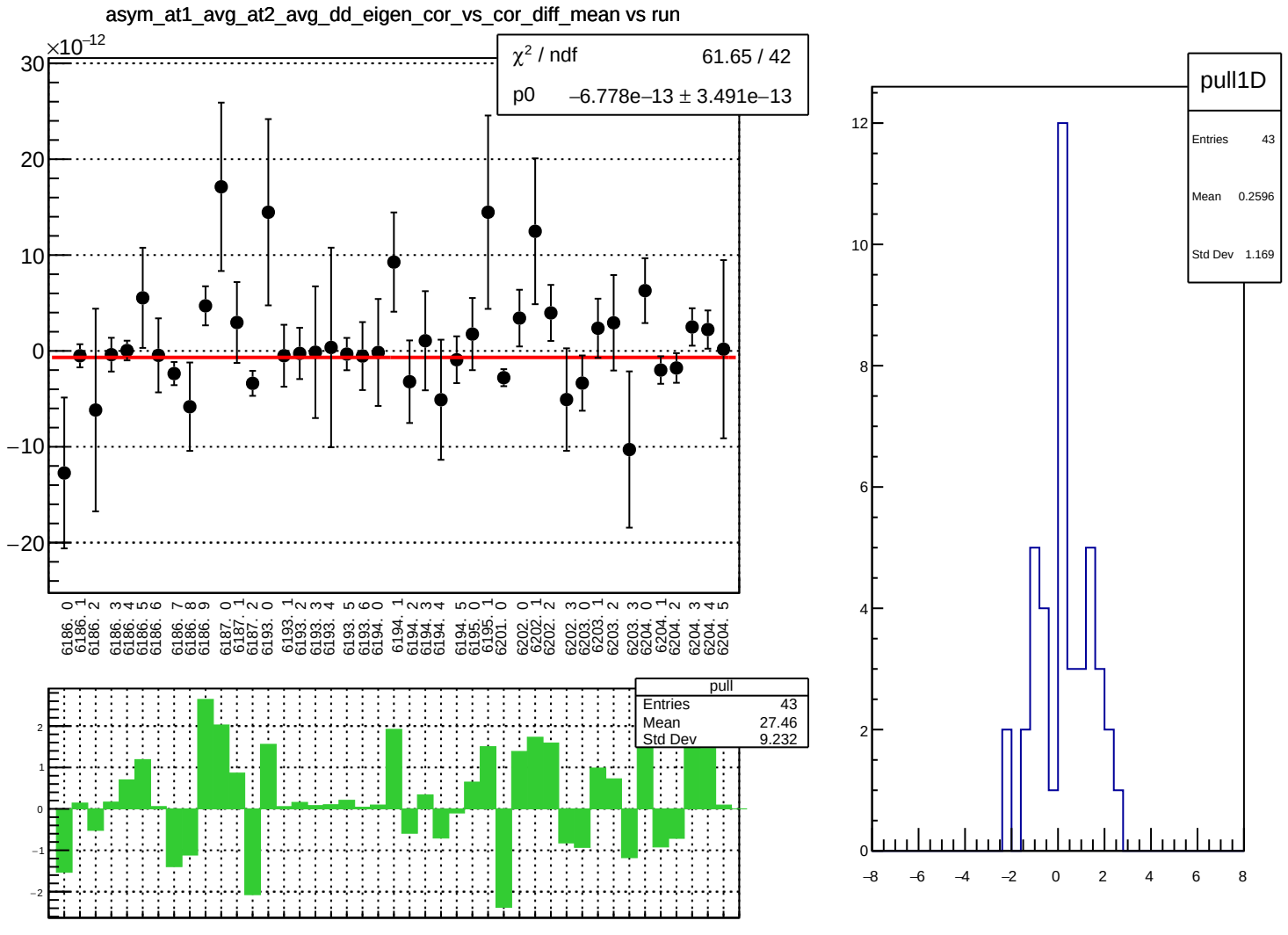

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.71 / 42
p0 −0.1632 ± 0.225
pull
Entries 43
Mean −75.77
Std Dev 0
pull1D
Entries 43
Mean 0.01327
Std Dev 1.064

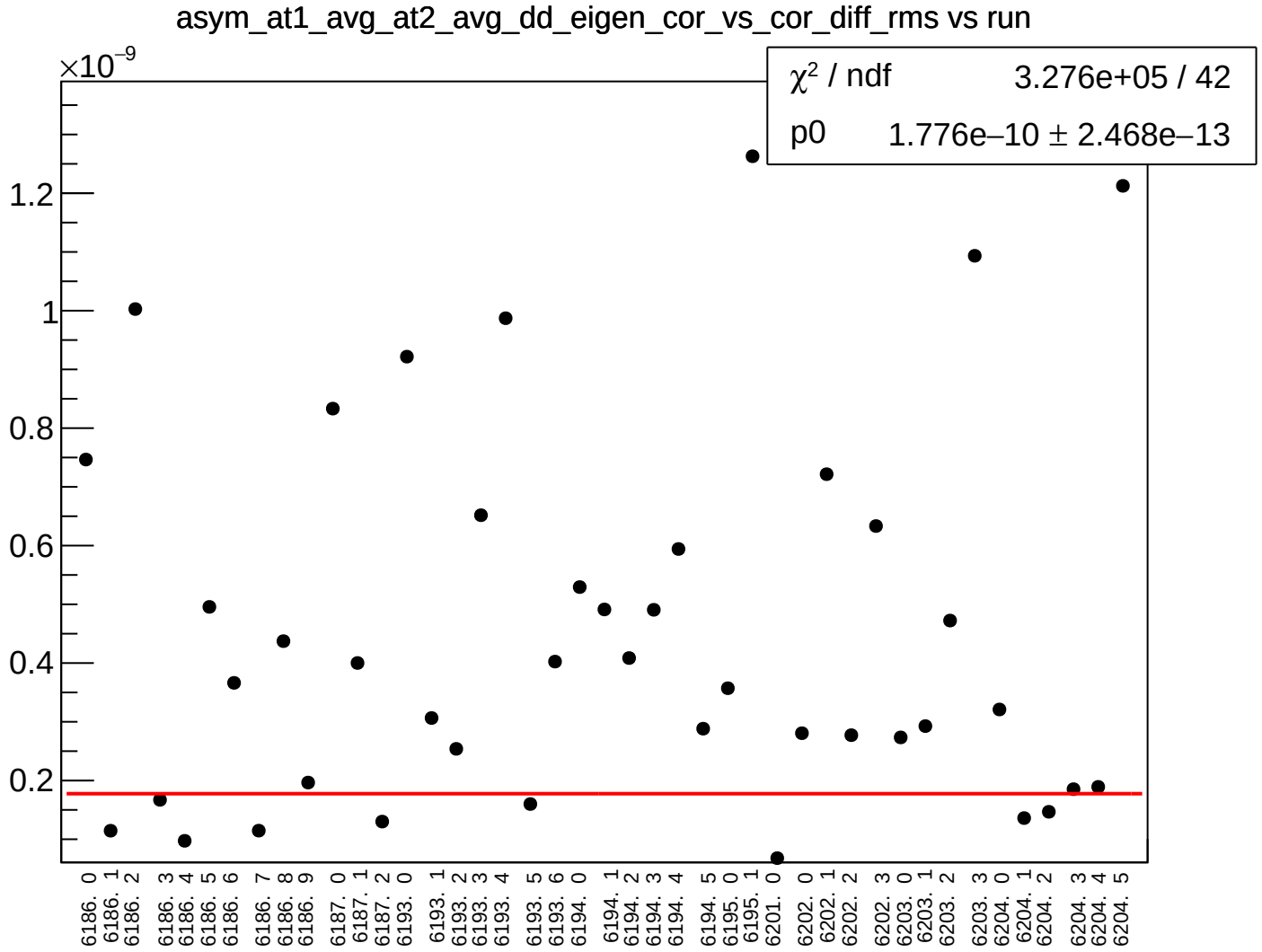

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.948e+04 / 42
p0 143.7 ± 0.1591
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

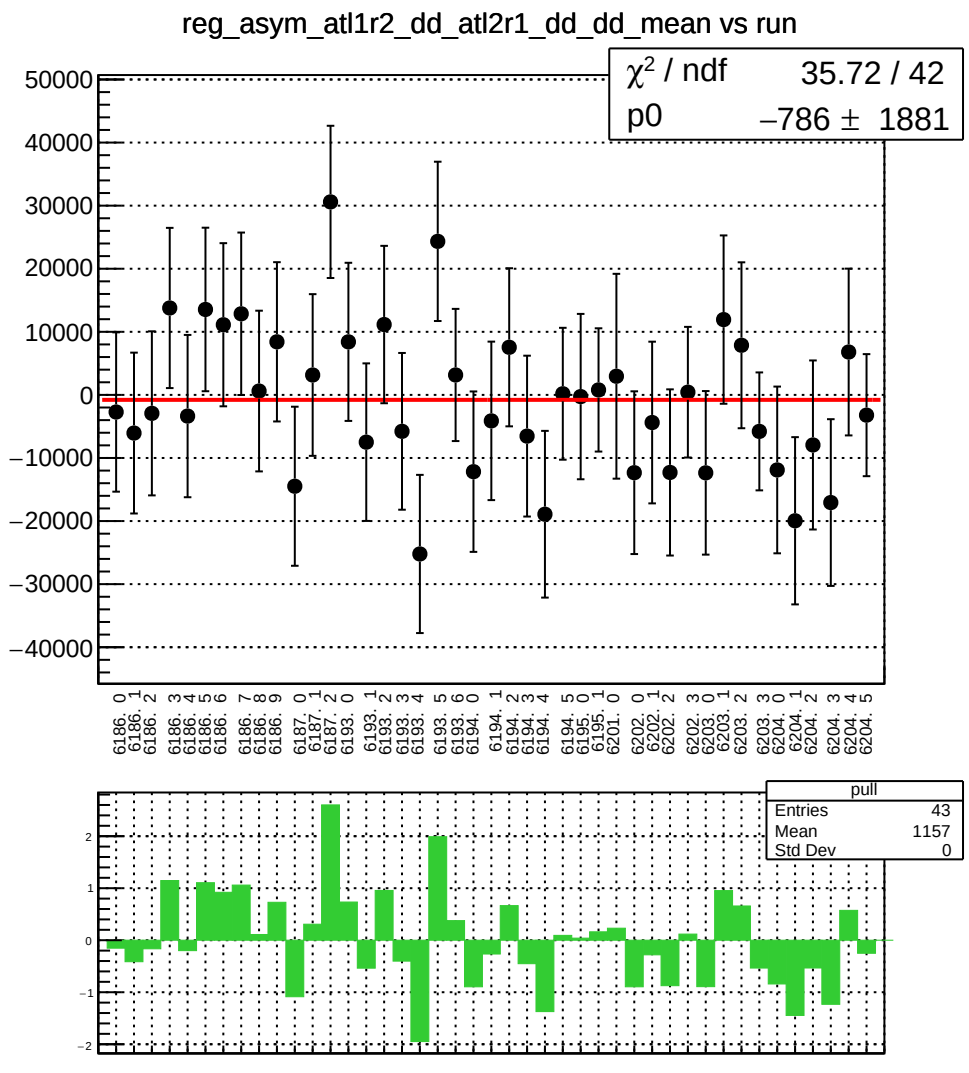

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.71 / 42
p0 −0.1632 ± 0.225
pull
Entries 43
Mean −75.77
Std Dev 0


pull1D
Entries 43
Mean 0.01327
Std Dev 1.064


asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.948e+04 / 42
p0 143.7 ± 0.1591
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.65 / 42
p0 −6.778e−13 ± 3.491e−13
30
20
10
0
−10
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 27.46
Std Dev 9.232
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.2596
Std Dev 1.169
12
10
8
6
4
2
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 3.276e+05 / 42
p0 1.776e−10 ± 2.468e−13
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 35.72 / 42
p0 −786 ± 1881
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
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6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1157
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.003232
Std Dev 0.9114
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5
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3
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1
0
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−4
−2
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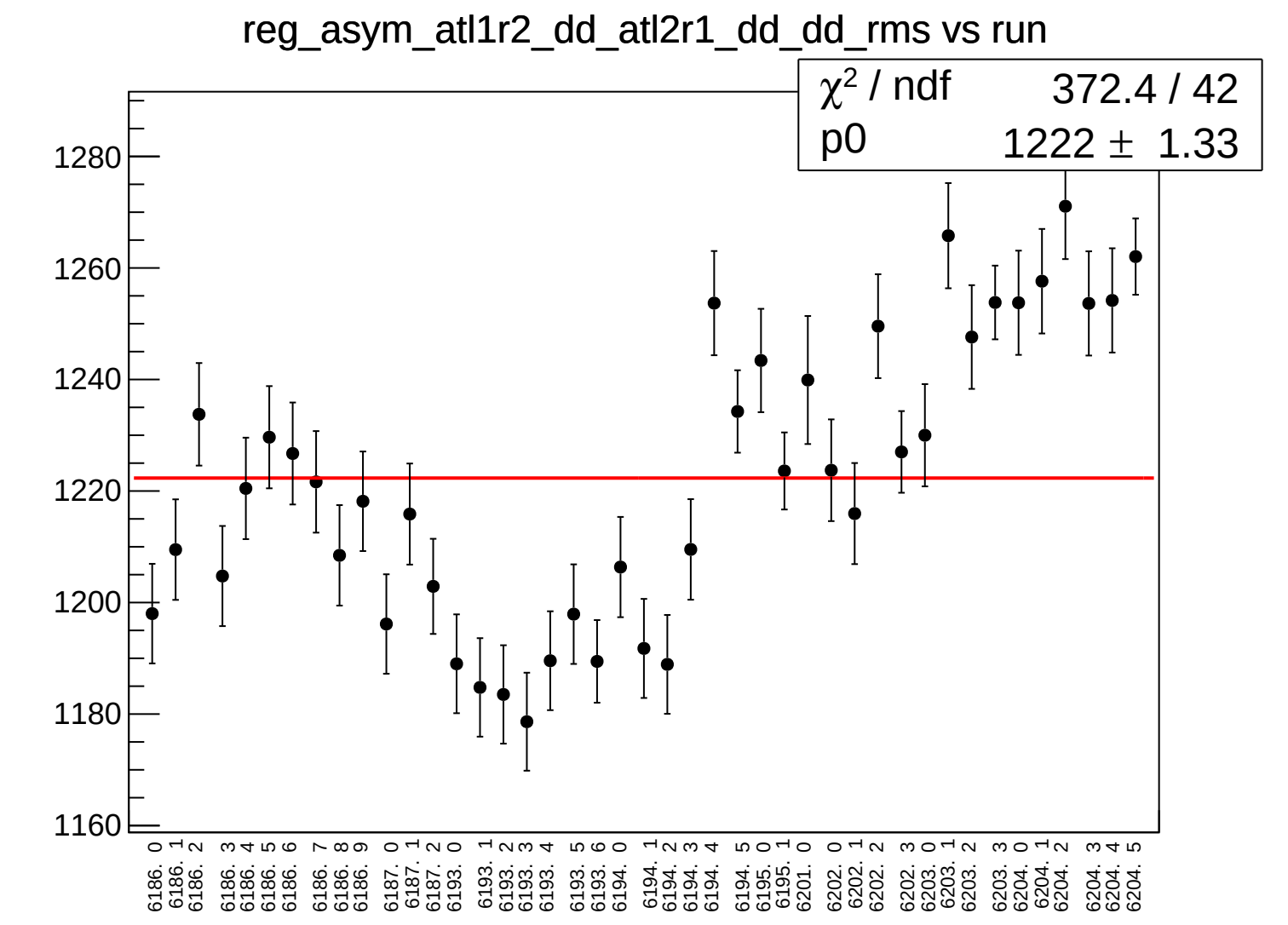
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 372.4 / 42
p0 1222 ± 1.33
1280
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
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6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6204. 2
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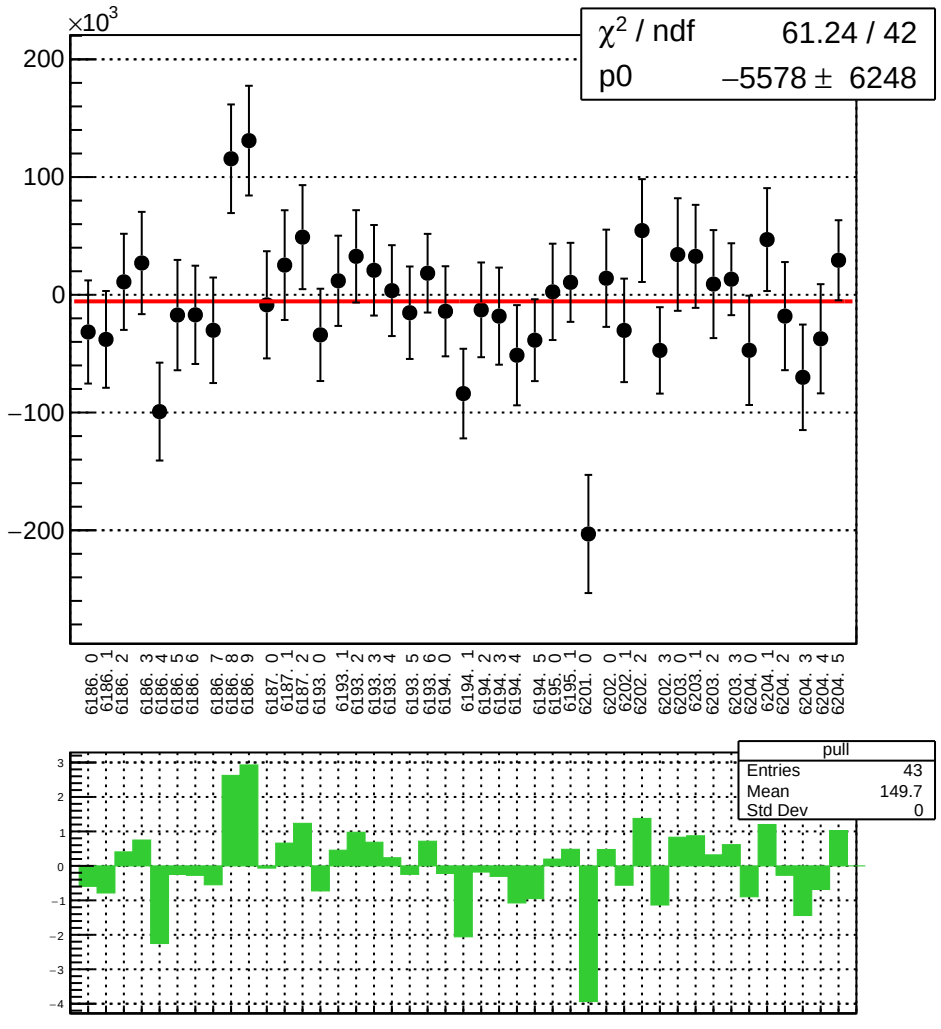
6204. 4
6204. 5


asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 61.24 / 42
p0 −5578 ± 6248
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
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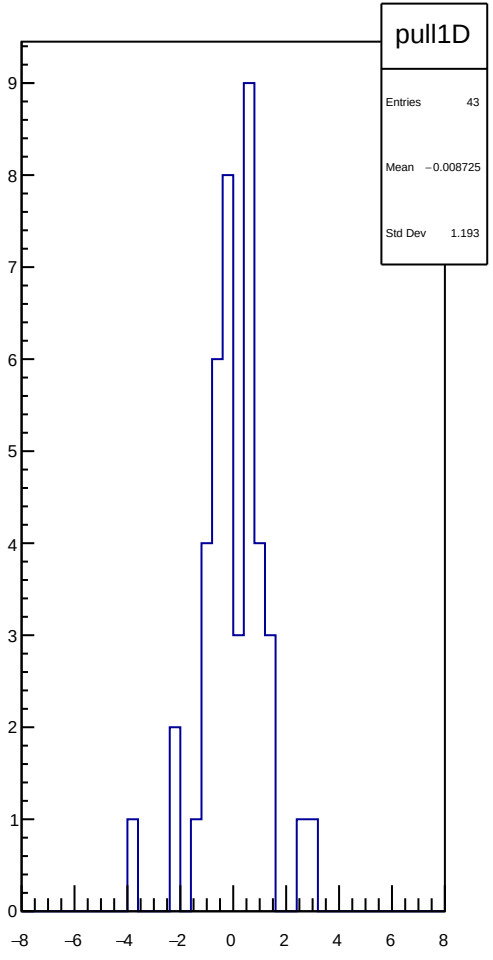
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 149.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4


pull1D
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Mean −0.008725
Std Dev 1.193
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5
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3
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−8
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−4
−2
0
2
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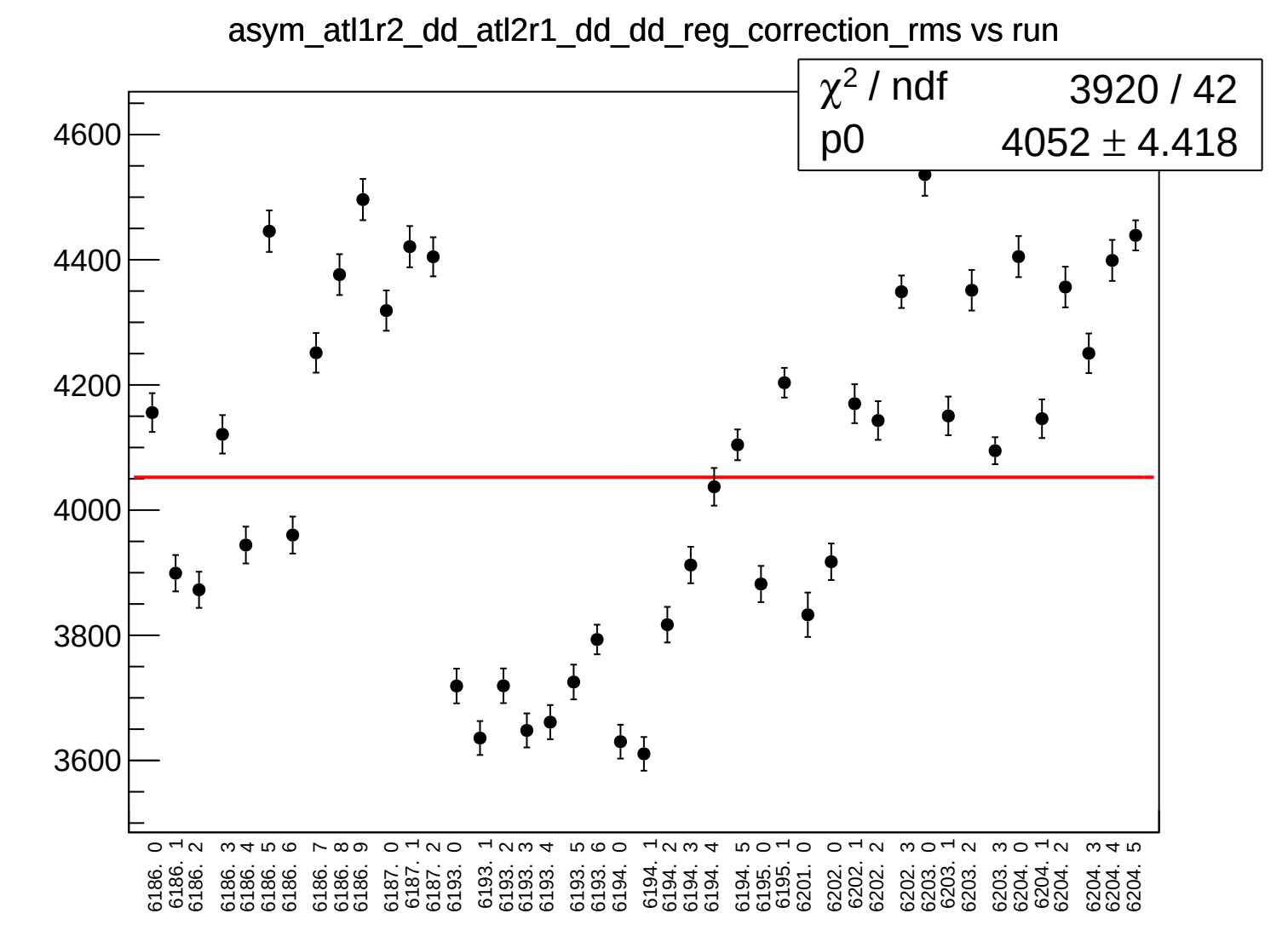
8


asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 3920 / 42
p0 4052 ± 4.418
4600
4400
4200
4000
3800
3600
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 6
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6186. 8
6186. 9
6187. 0
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6187. 2
6193. 0
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6193. 2
6193. 3
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6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
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6194. 5
6195. 0
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6202. 2
6202. 3
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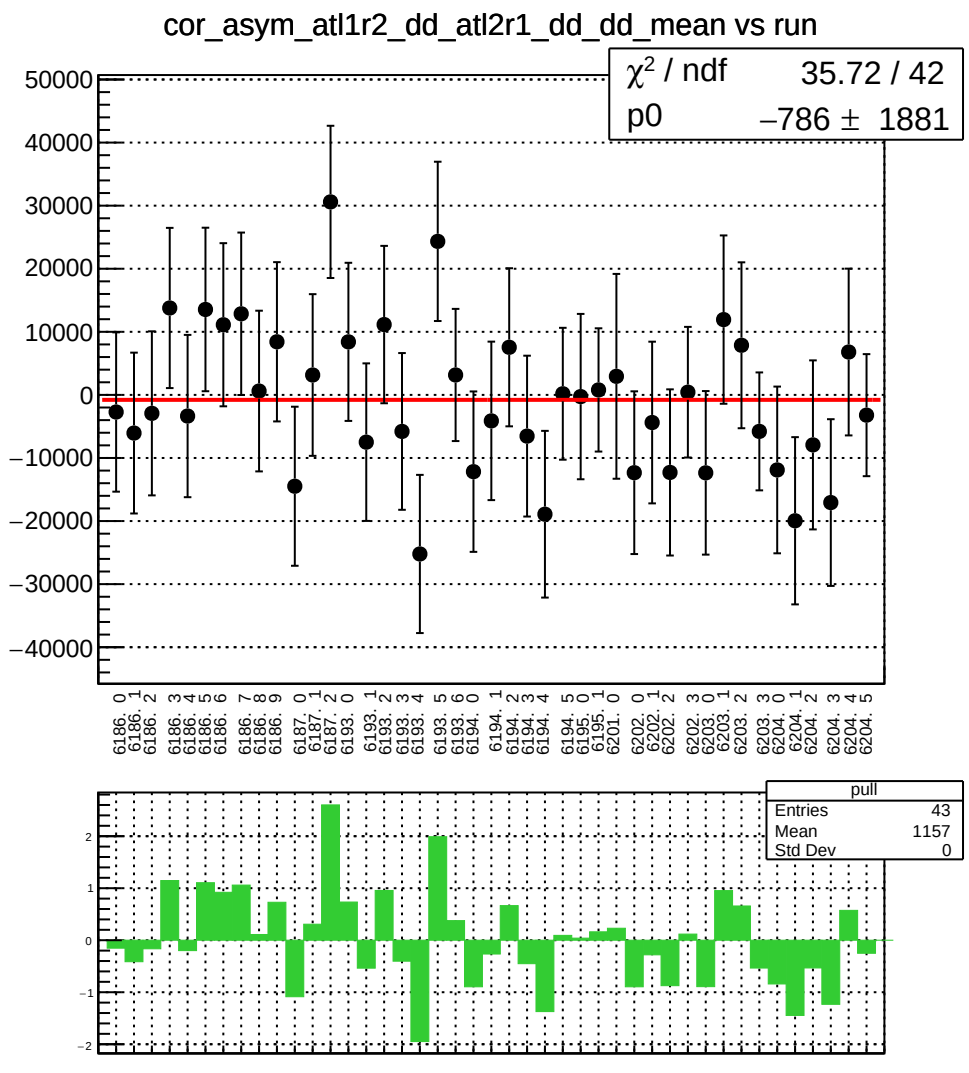
6204. 4
6204. 5


cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 35.72 / 42
p0 −786 ± 1881
50000
40000
30000
20000
10000
0
−10000
−20000
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−40000
6186. 0
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6186. 2
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6186. 8
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6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6203. 3
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6204. 4
6204. 5
pull
Entries 43
Mean 1157
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.003235
Std Dev 0.9114
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−4
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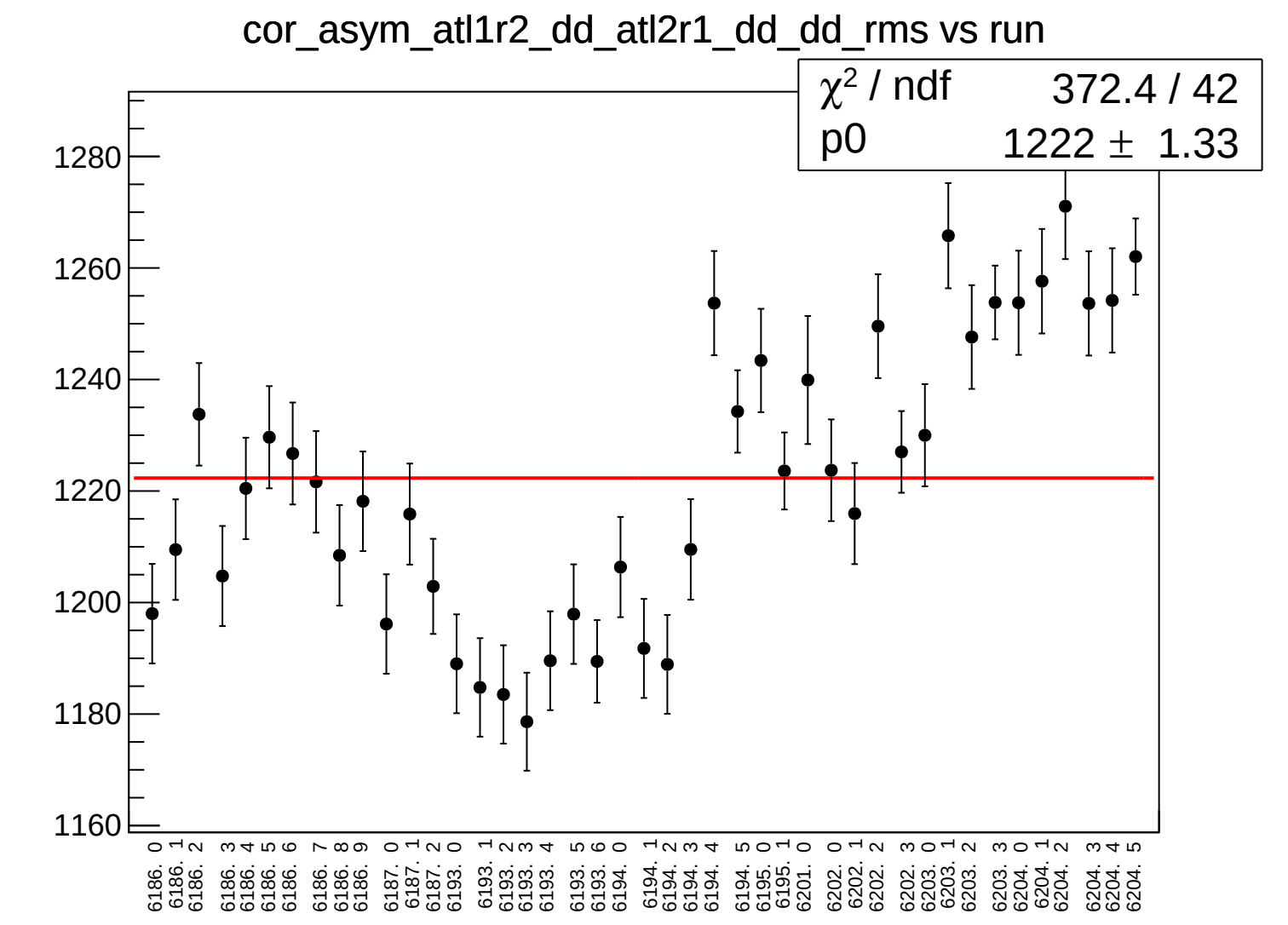
cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 372.4 / 42
p0 1222 ± 1.33
1280
1260
1240
1220
1200
1180
1160
6186. 0
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6193. 5
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6195. 0
6195. 1
6201. 0
6202. 0
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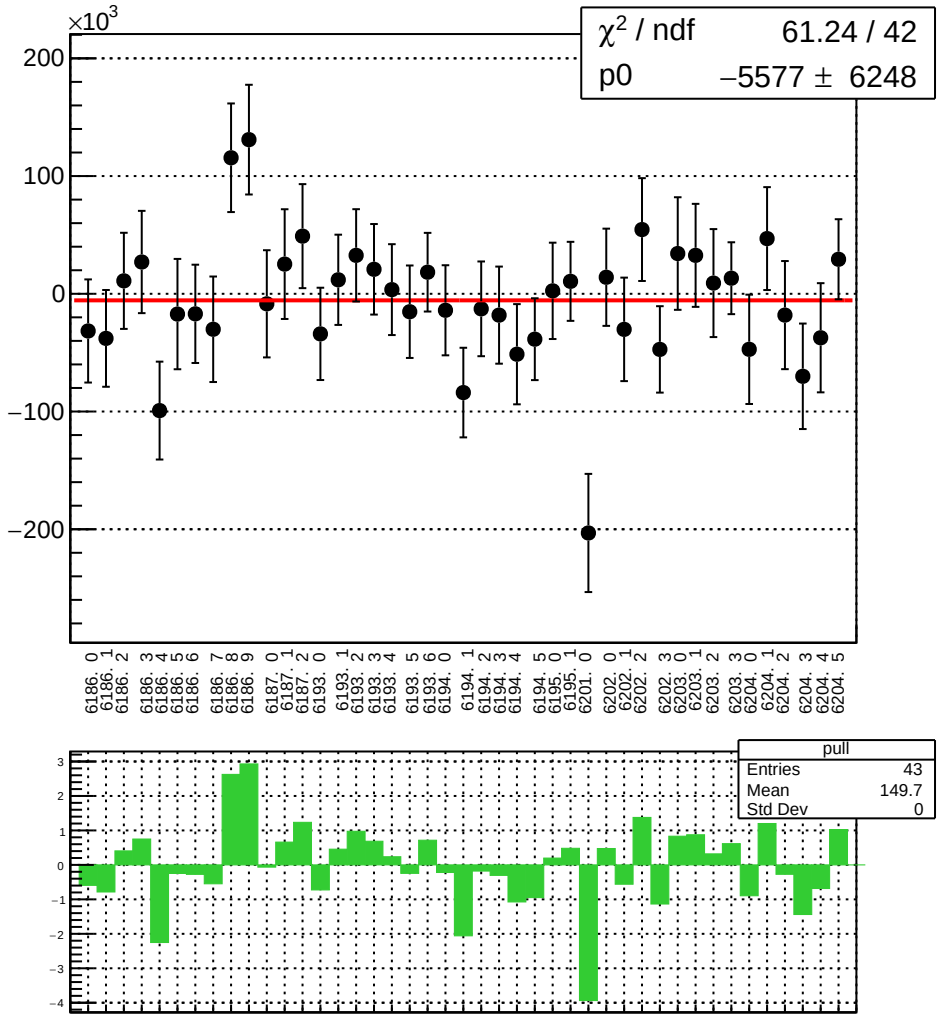
6204. 5


asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 61.24 / 42
p0 −5577 ± 6248
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
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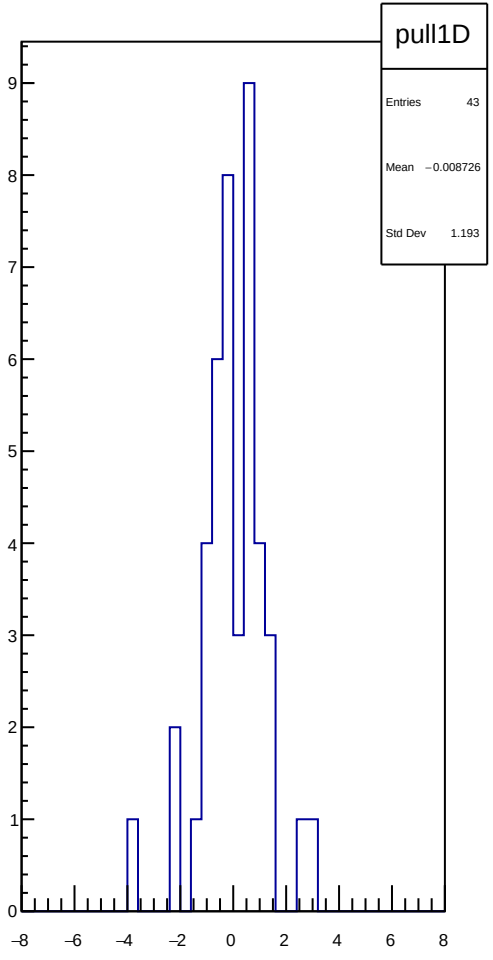
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 149.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4


pull1D
Entries 43
Mean −0.008726
Std Dev 1.193
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5
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−4
−2
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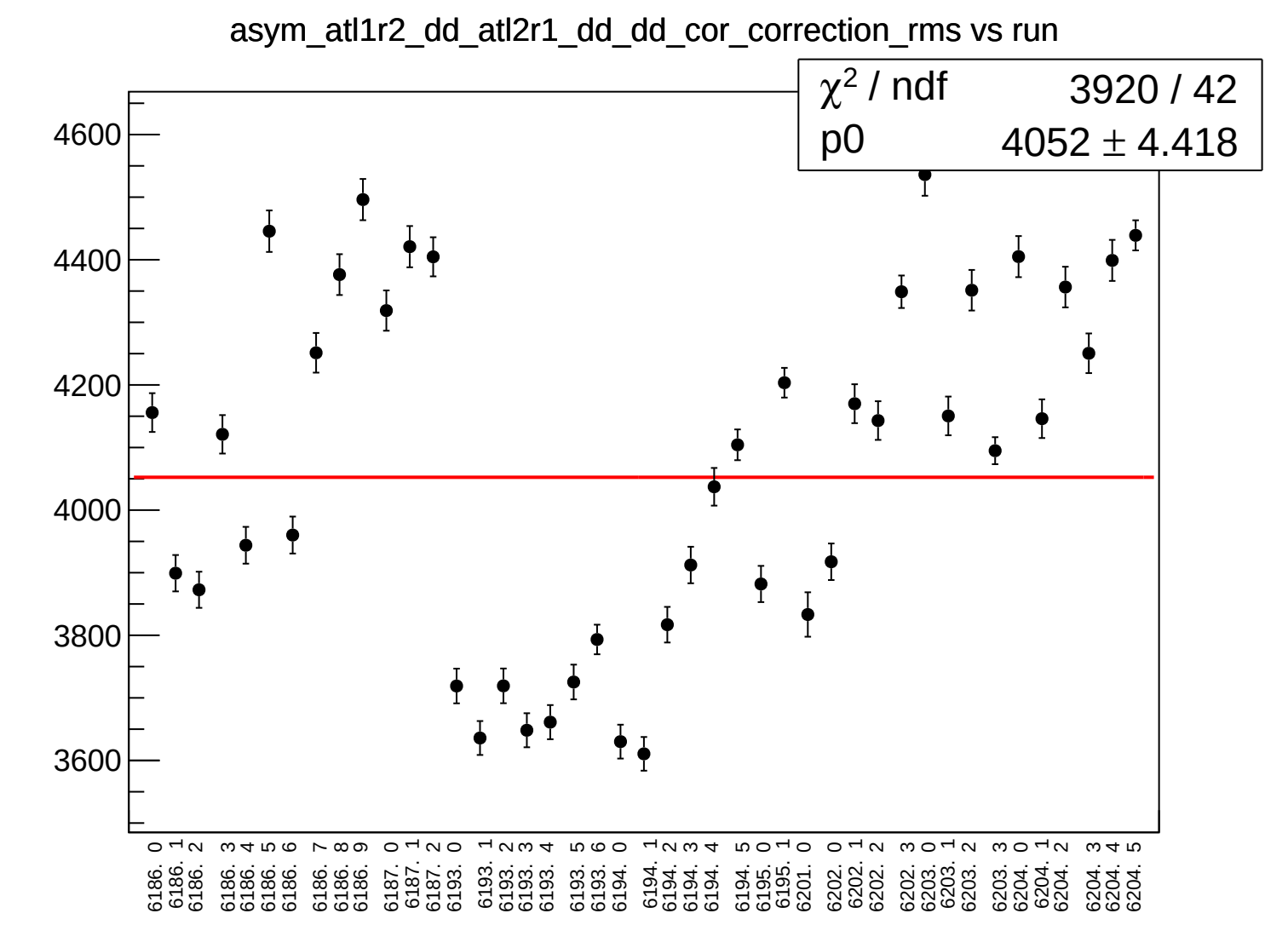
asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 3920 / 42
p0 4052 ± 4.418
4600
4400
4200
4000
3800
3600
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 8
6186. 9
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6193. 0
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6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
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6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
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6204. 0
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6204. 2
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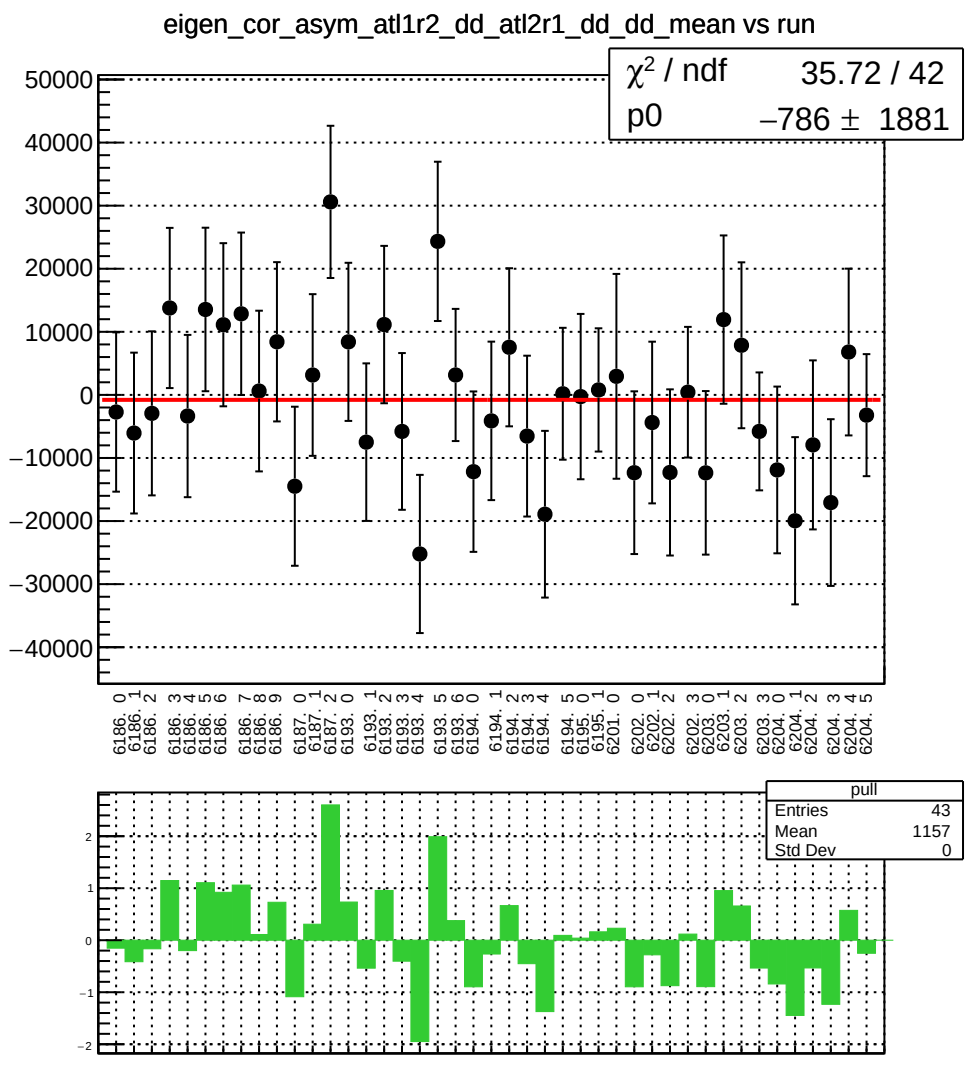
6204. 4
6204. 5


eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 35.72 / 42
p0 −786 ± 1881
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
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6186. 7
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6195. 1
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6204. 2
6204. 3
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6204. 5
pull
Entries 43
Mean 1157
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.003235
Std Dev 0.9114
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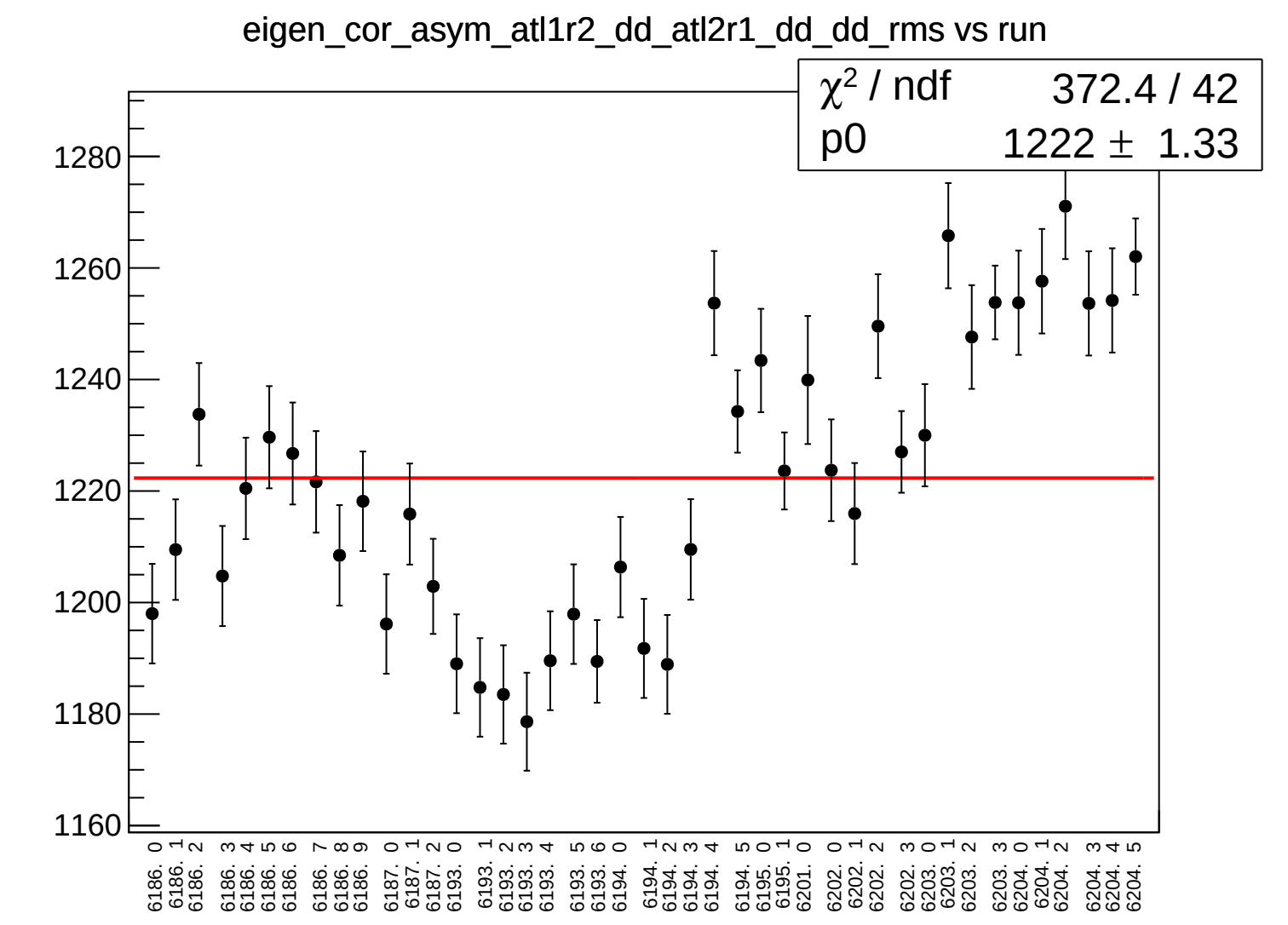
8


eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 372.4 / 42
p0 1222 ± 1.33
1280
1260
1240
1220
1200
1180
1160
6186. 0
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6195. 1
6201. 0
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6202. 2
6202. 3
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6203. 3
6204. 0
6204. 1
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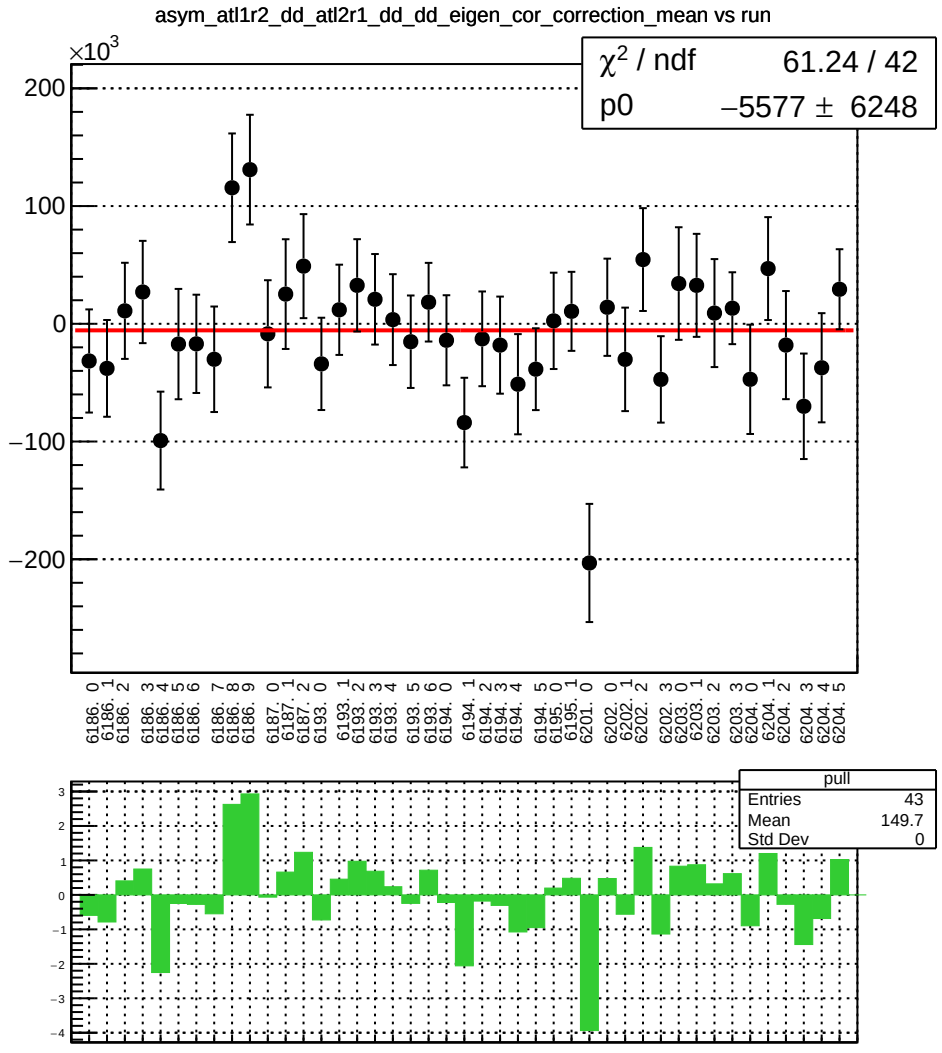
6204. 4
6204. 5


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 61.24 / 42
p0 −5577 ± 6248
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
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6187. 2
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6193. 2
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6194. 0
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6194. 2
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6195. 0
6195. 1
6201. 0
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6203. 0
6203. 1
6203. 2
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6204. 1
6204. 2
6204. 3
6204. 4
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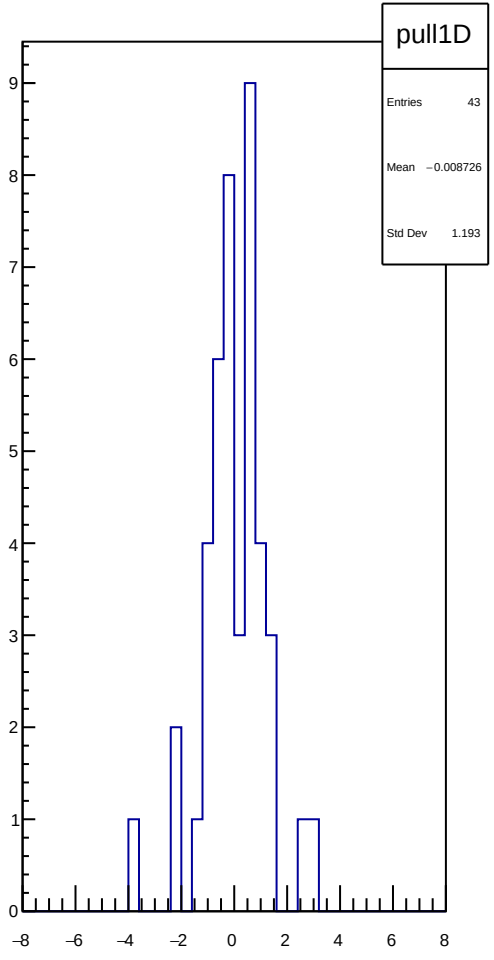
pull
Entries 43
Mean 149.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4


pull1D
Entries 43
Mean −0.008726
Std Dev 1.193
9
8
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−4
−2
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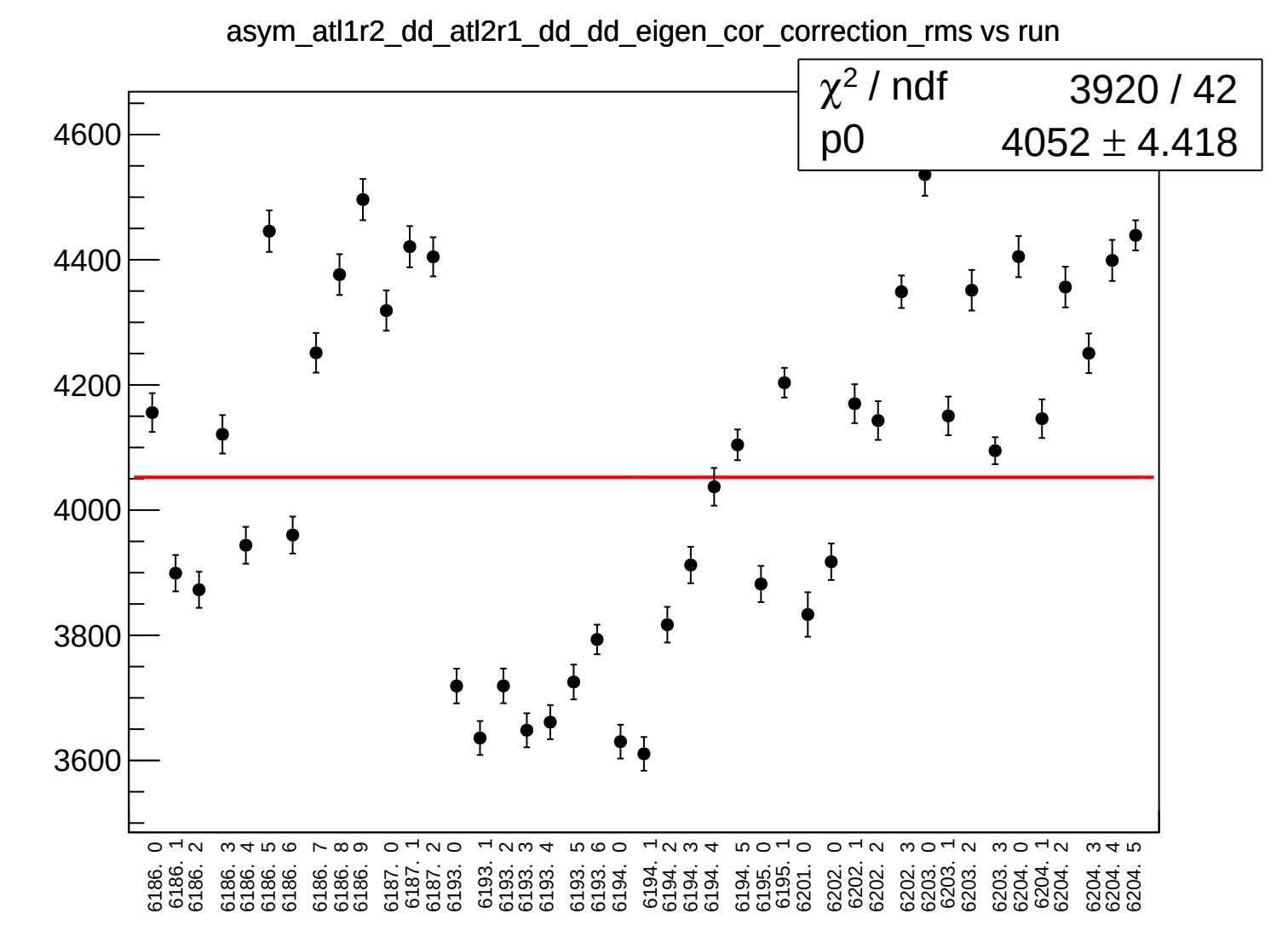
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3920 / 42
p0 4052 ± 4.418
4600
4400
4200
4000
3800
3600
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 7
6186. 8
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6187. 0
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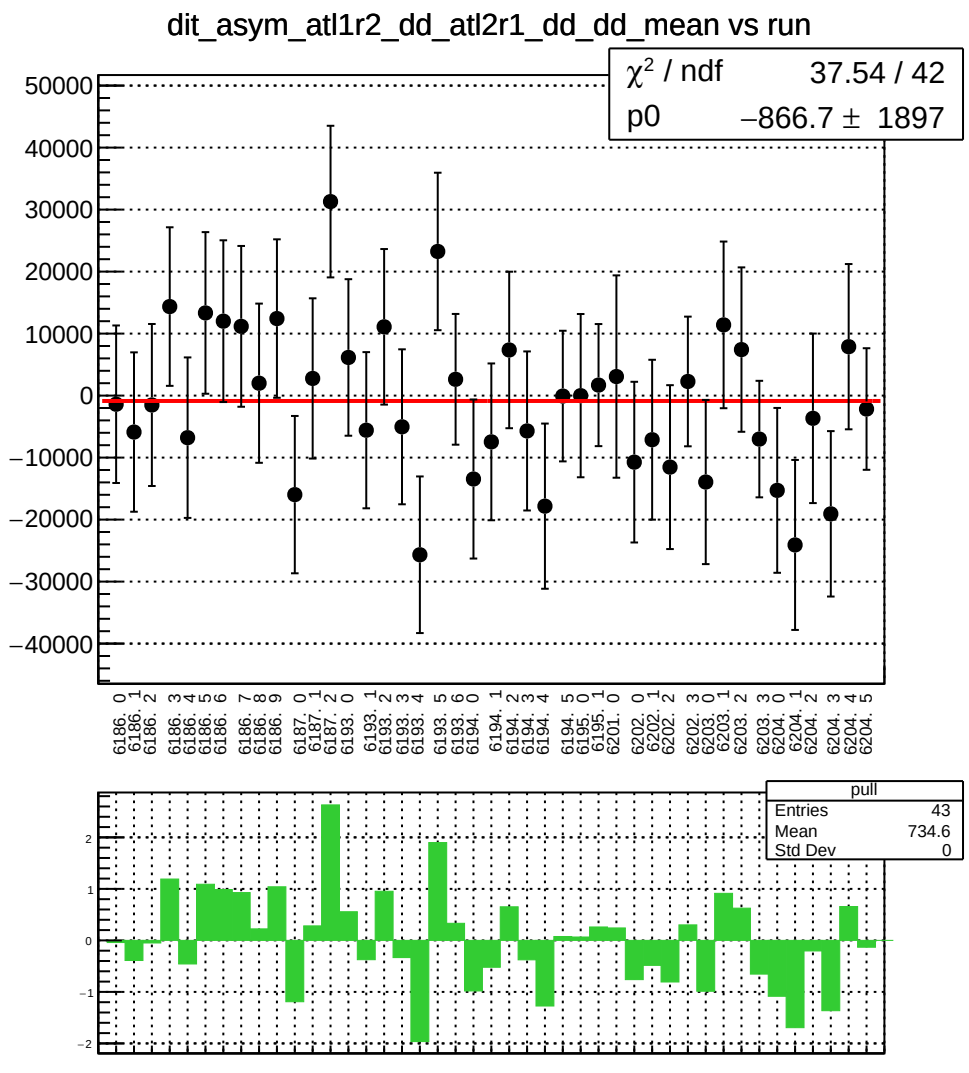
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 37.54 / 42
p0 −866.7 ± 1897
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
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6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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pull
Entries 43
Mean 734.6
Std Dev 0
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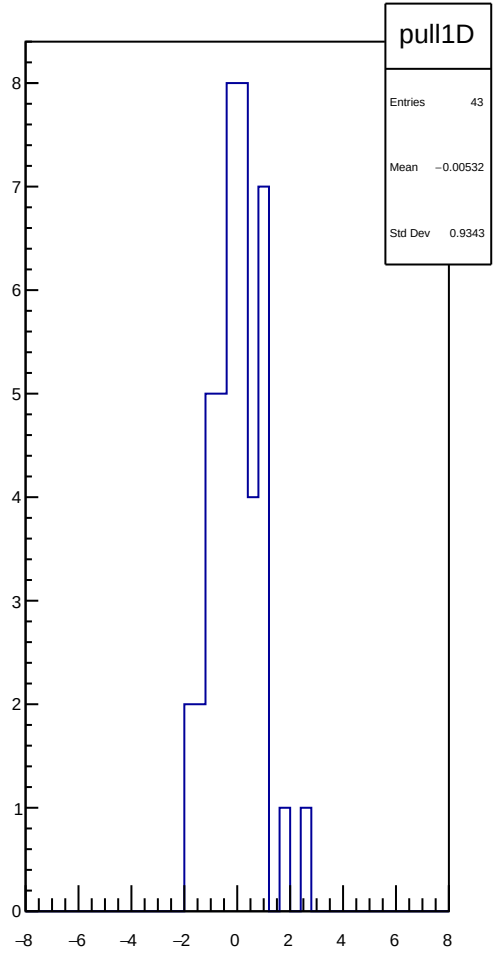
1
0
−1
−2


pull1D
Entries 43
Mean −0.00532
Std Dev 0.9343
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2
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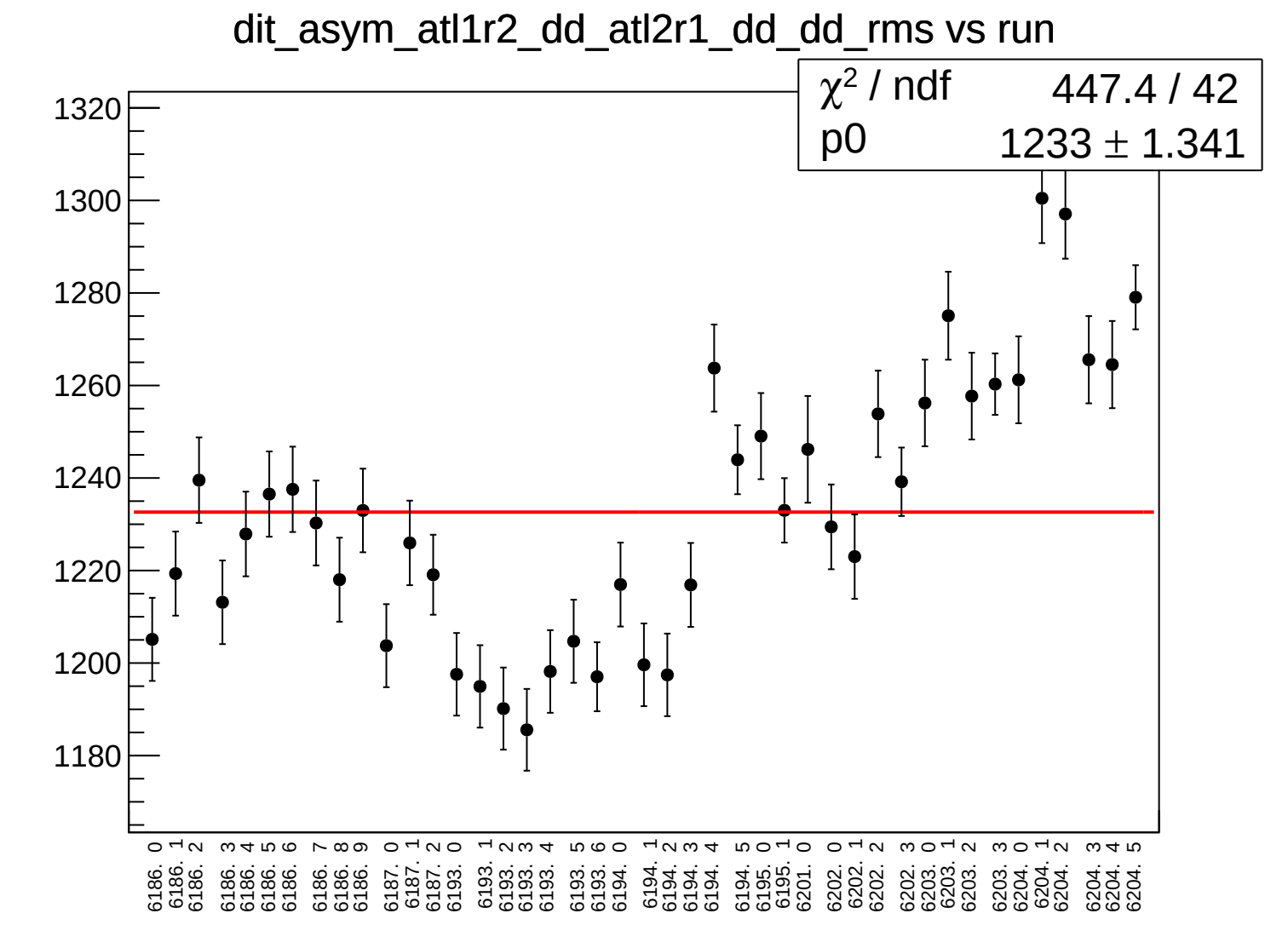
dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 447.4 / 42
p0 1233 ± 1.341
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1280
1260
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1220
1200
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6186. 0
6186. 1
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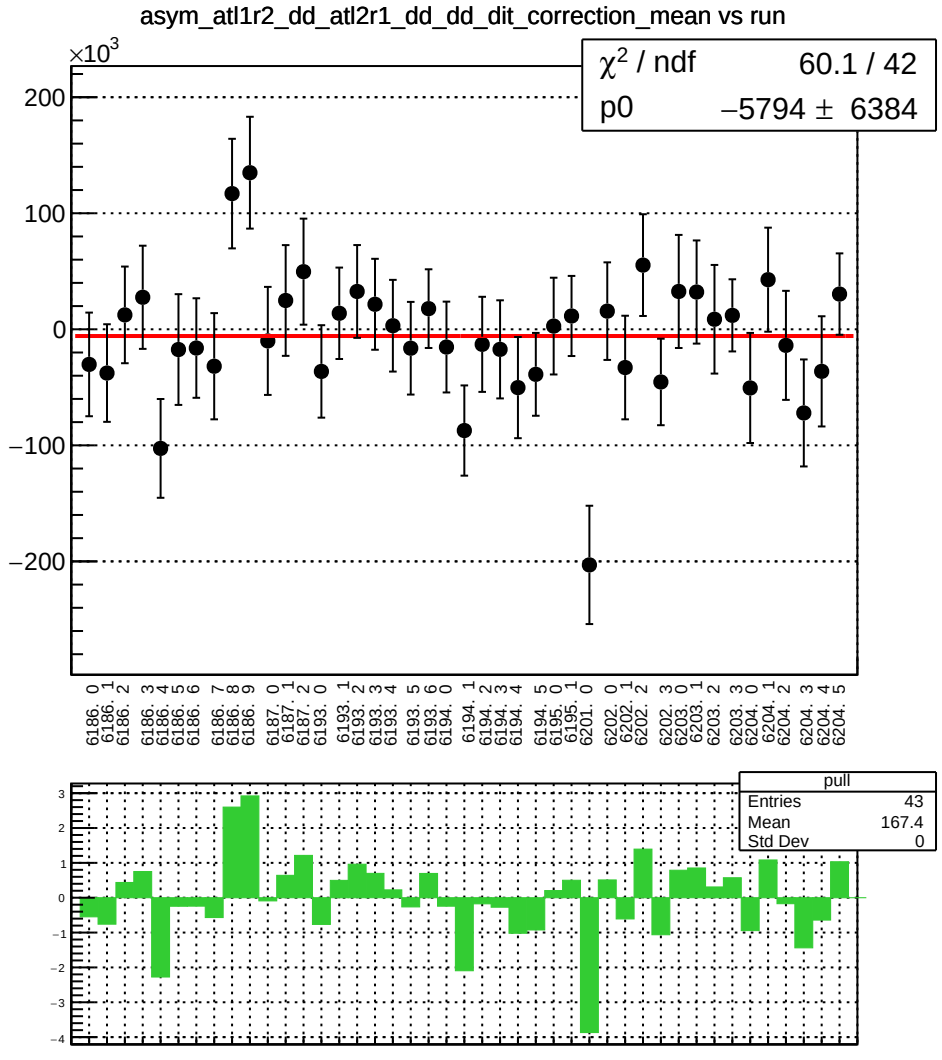
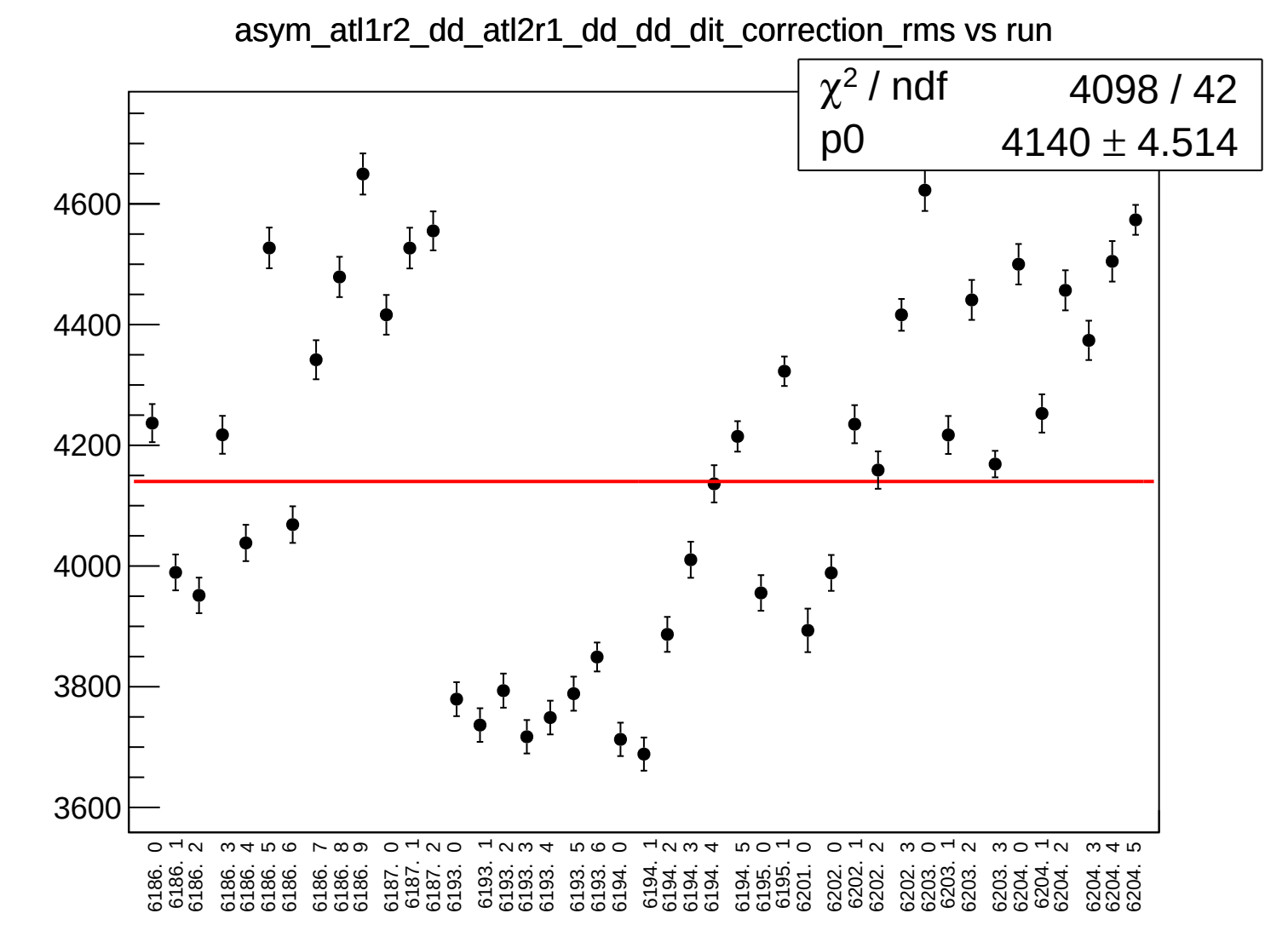
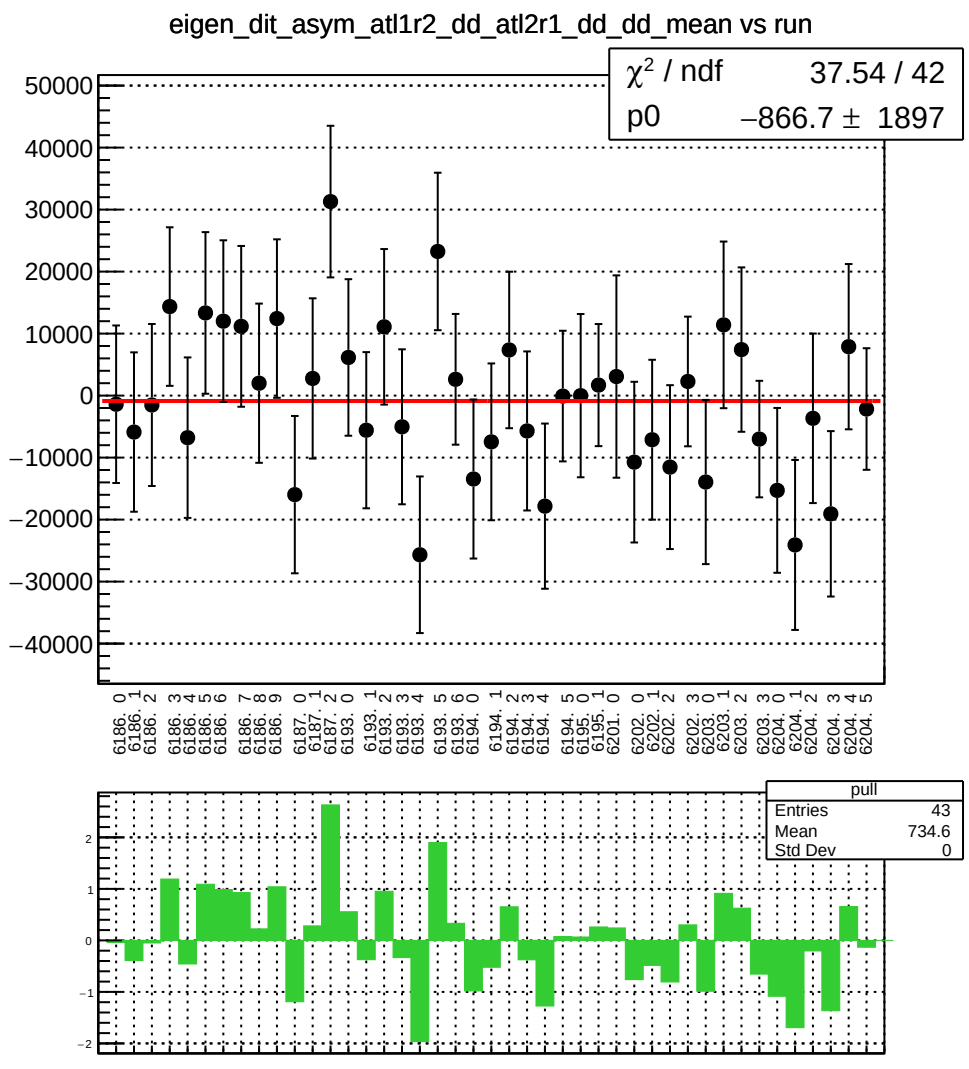
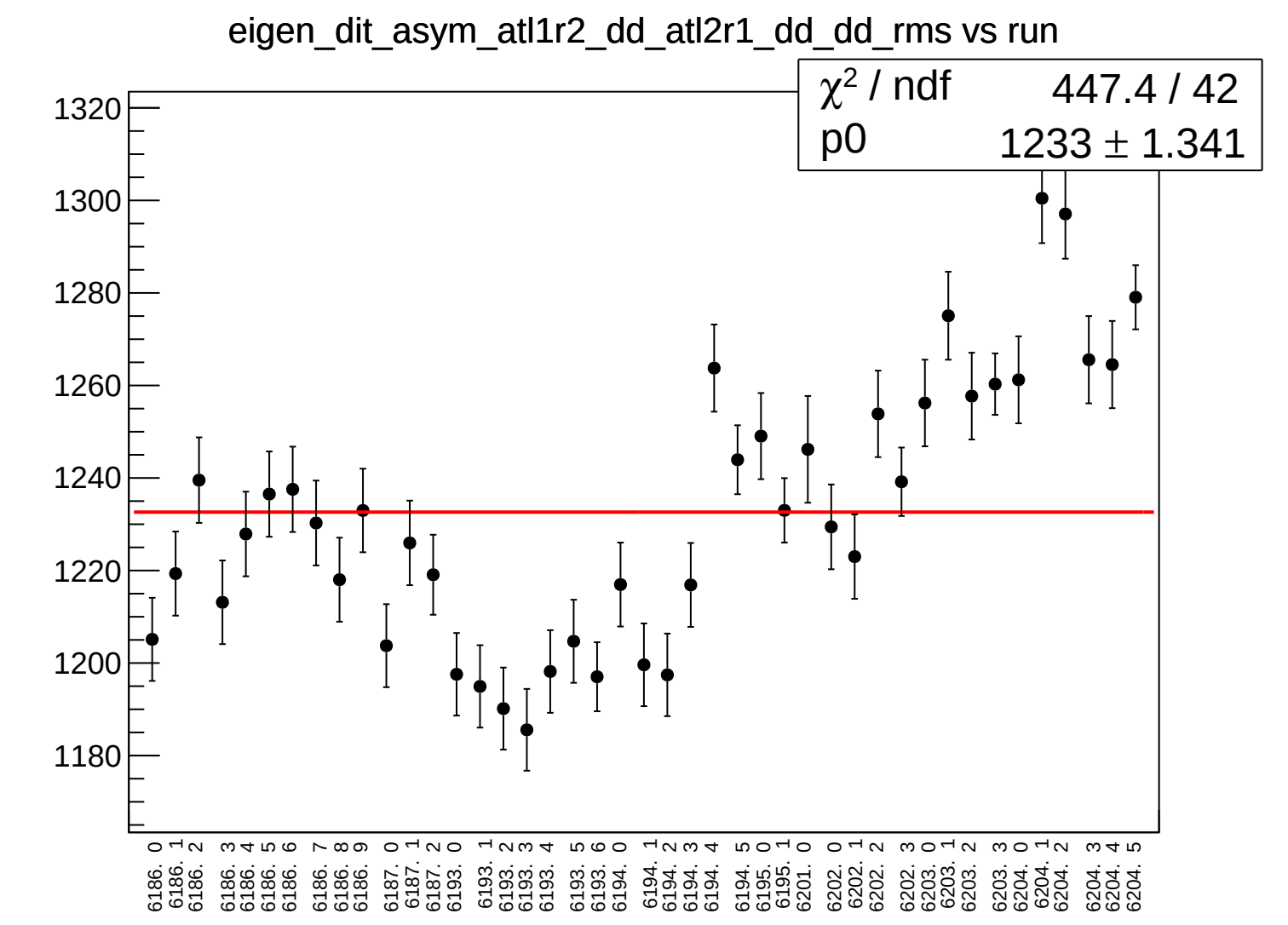
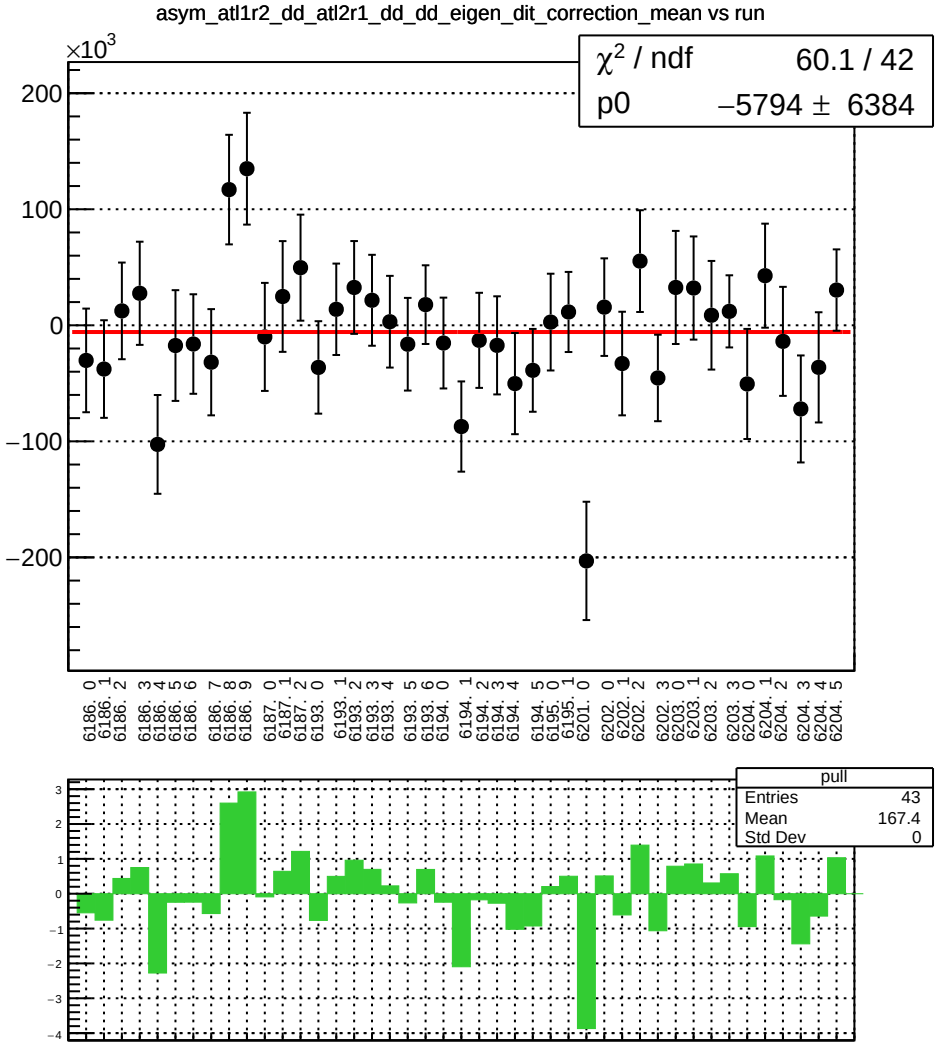
6204. 4
6204. 5

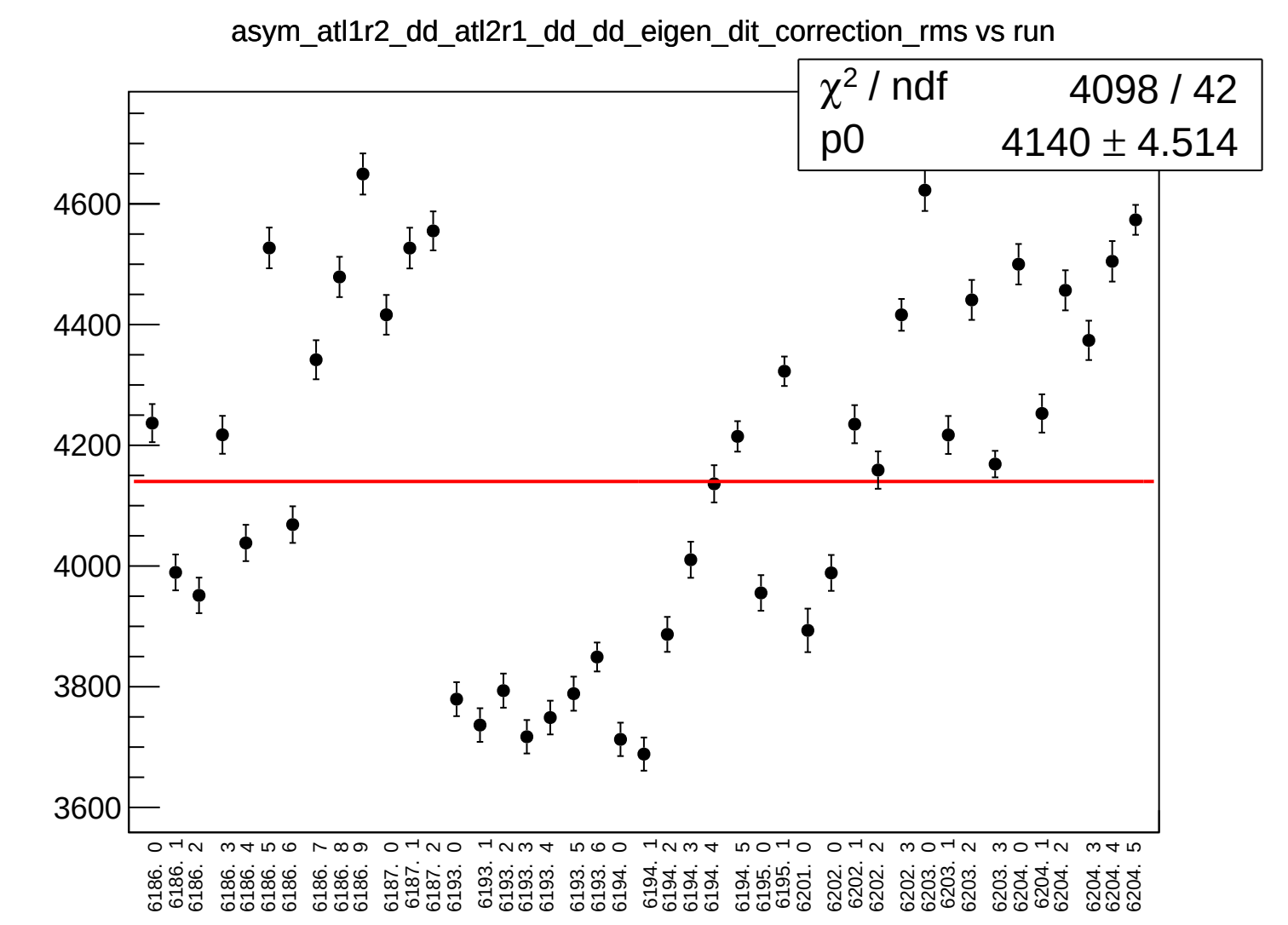

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 60.1 / 42
p0 −5794 ± 6384
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 167.4
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.007729
Std Dev 1.182
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

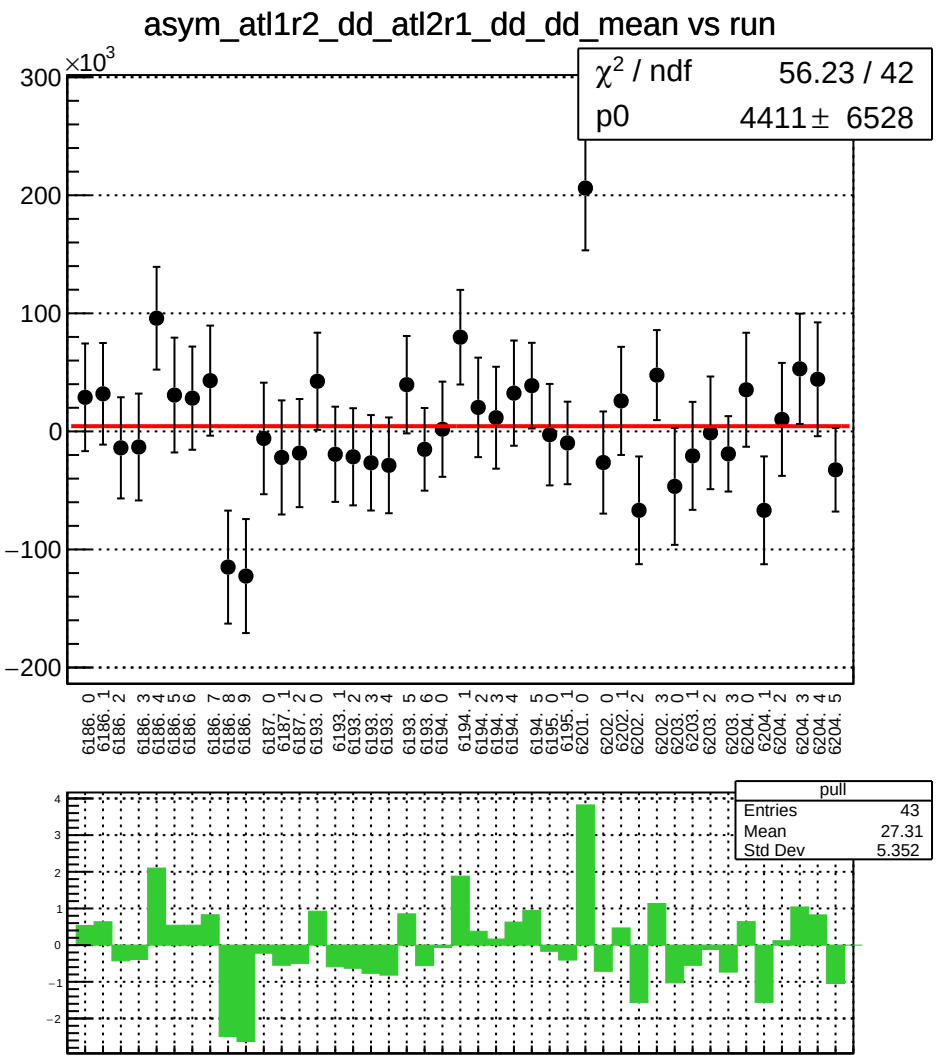

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 4098 / 42
p0 4140 ± 4.514
4600
4400
4200
4000
3800
3600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

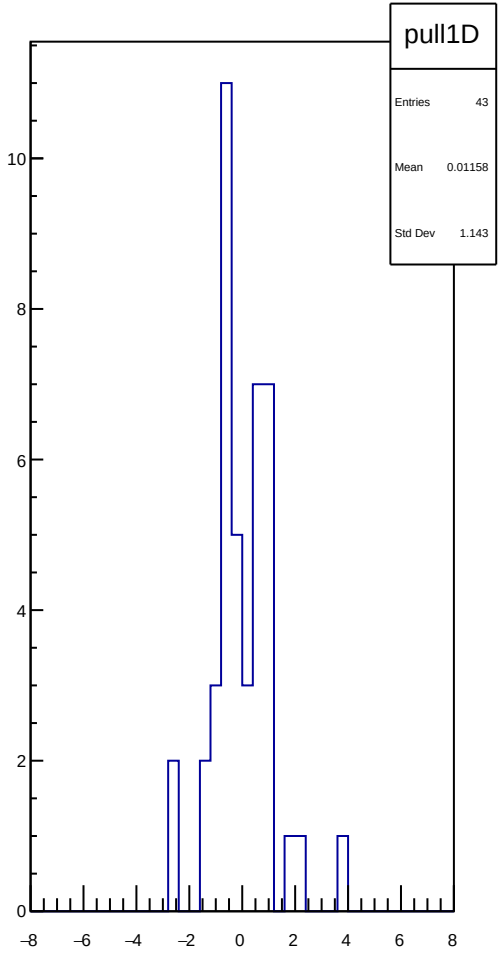

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 37.54 / 42
p0 −866.7 ± 1897
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 734.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.00532
Std Dev 0.9343
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

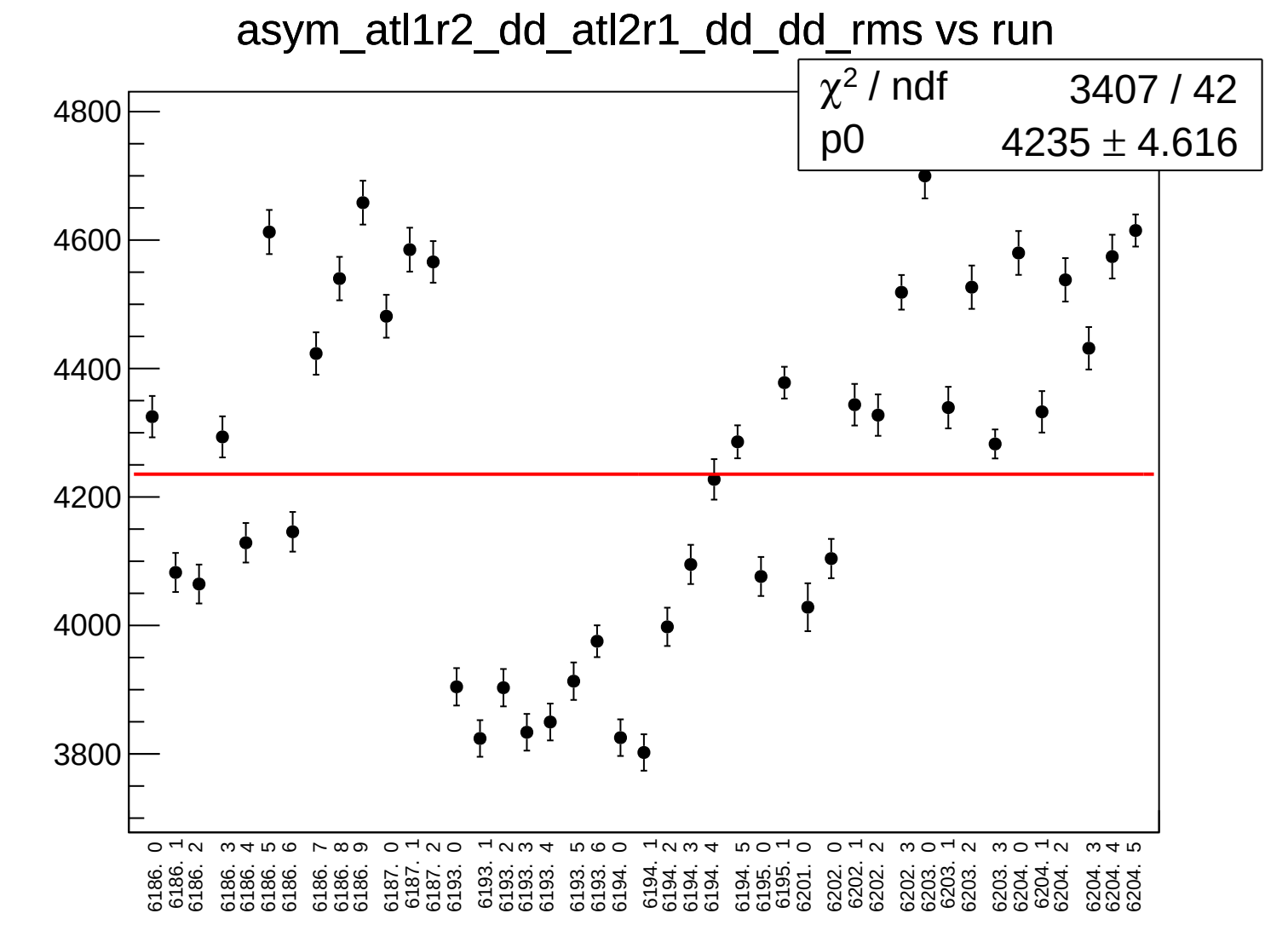

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 447.4 / 42
p0 1233 ± 1.341
1320
1300
1280
1260
1240
1220
1200
1180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

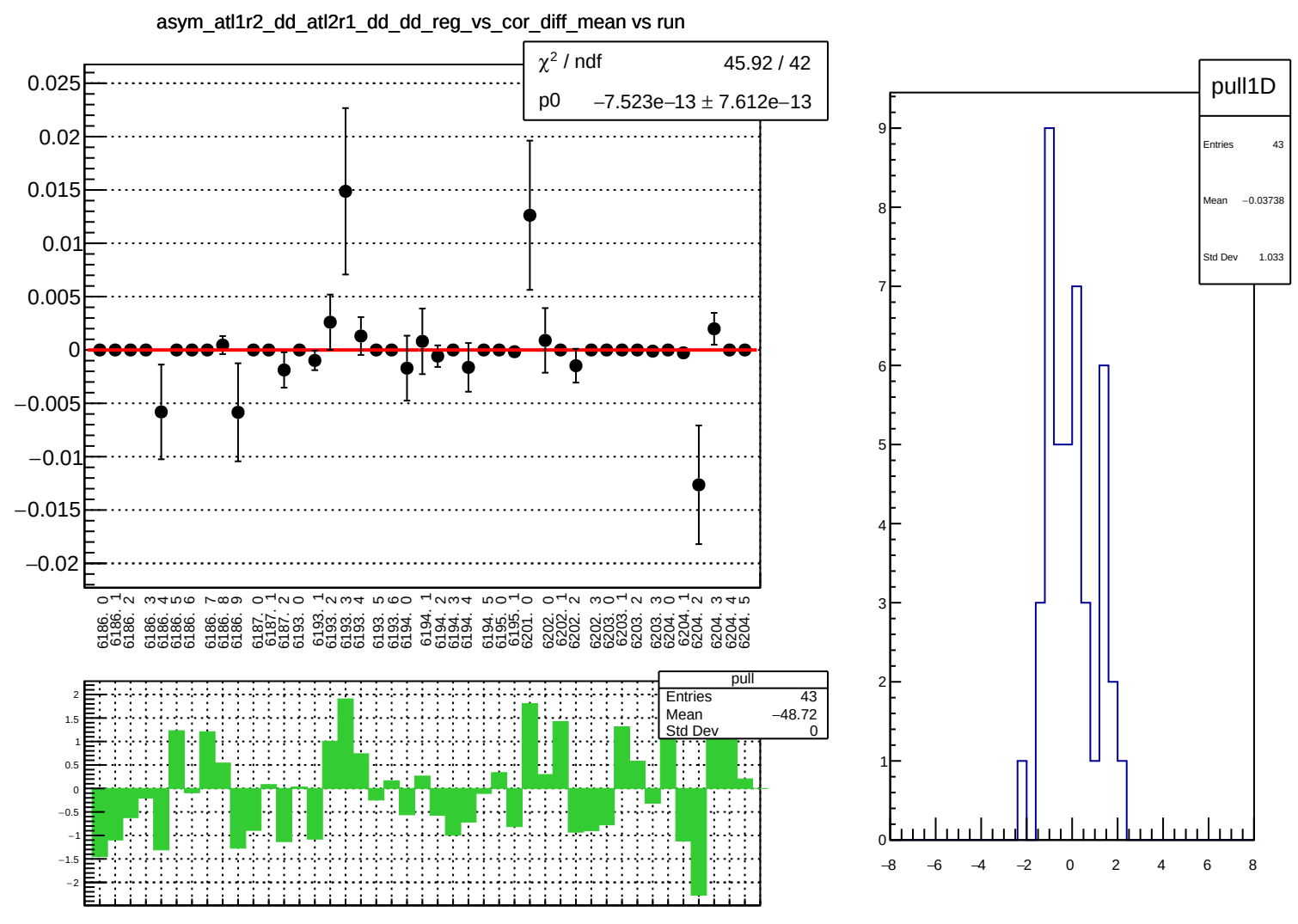

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 60.1 / 42
p0 −5794 ± 6384
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 167.4
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.007729
Std Dev 1.182
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

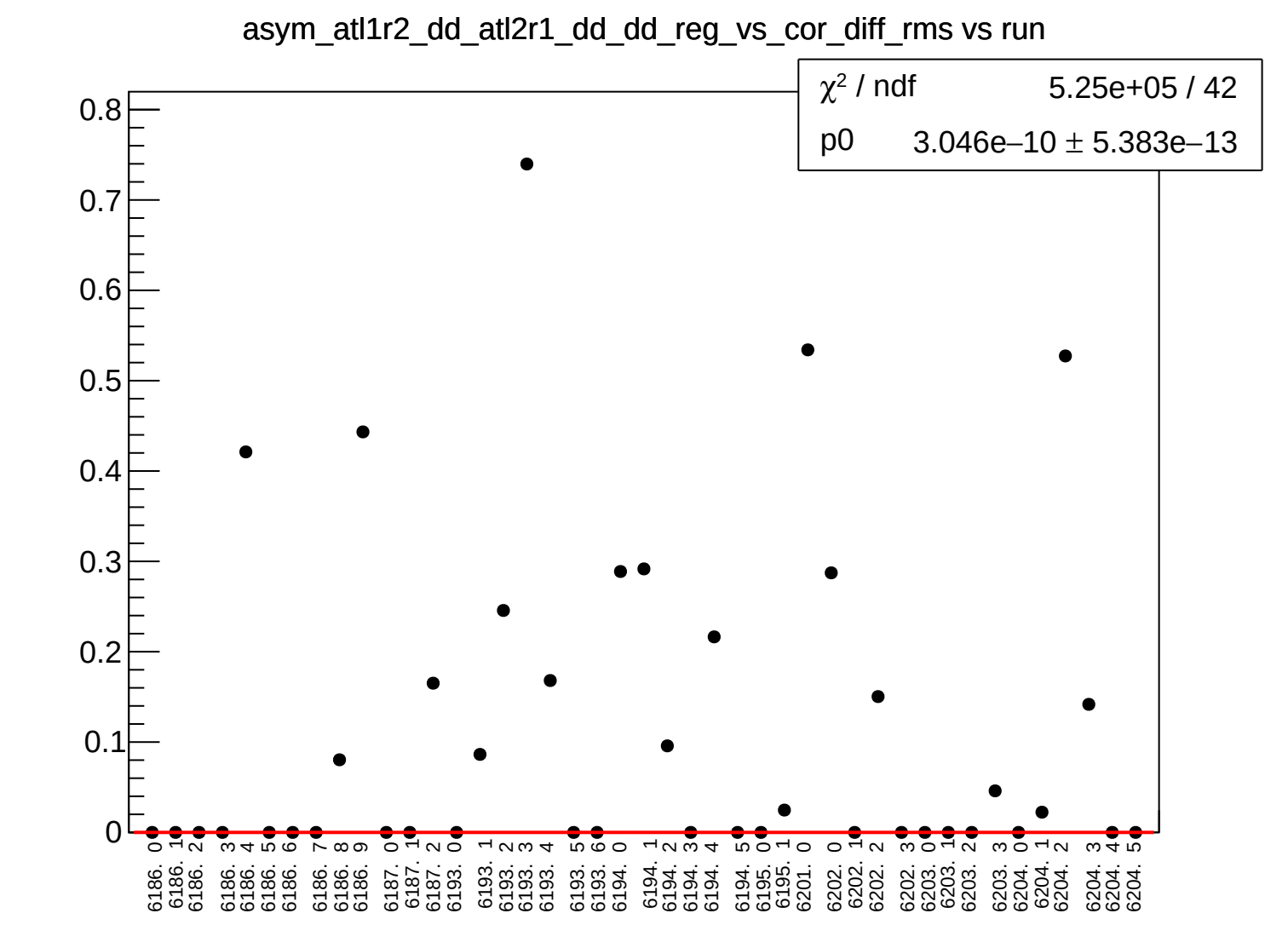

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4098 / 42
p0 4140 ± 4.514
4600
4400
4200
4000
3800
3600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

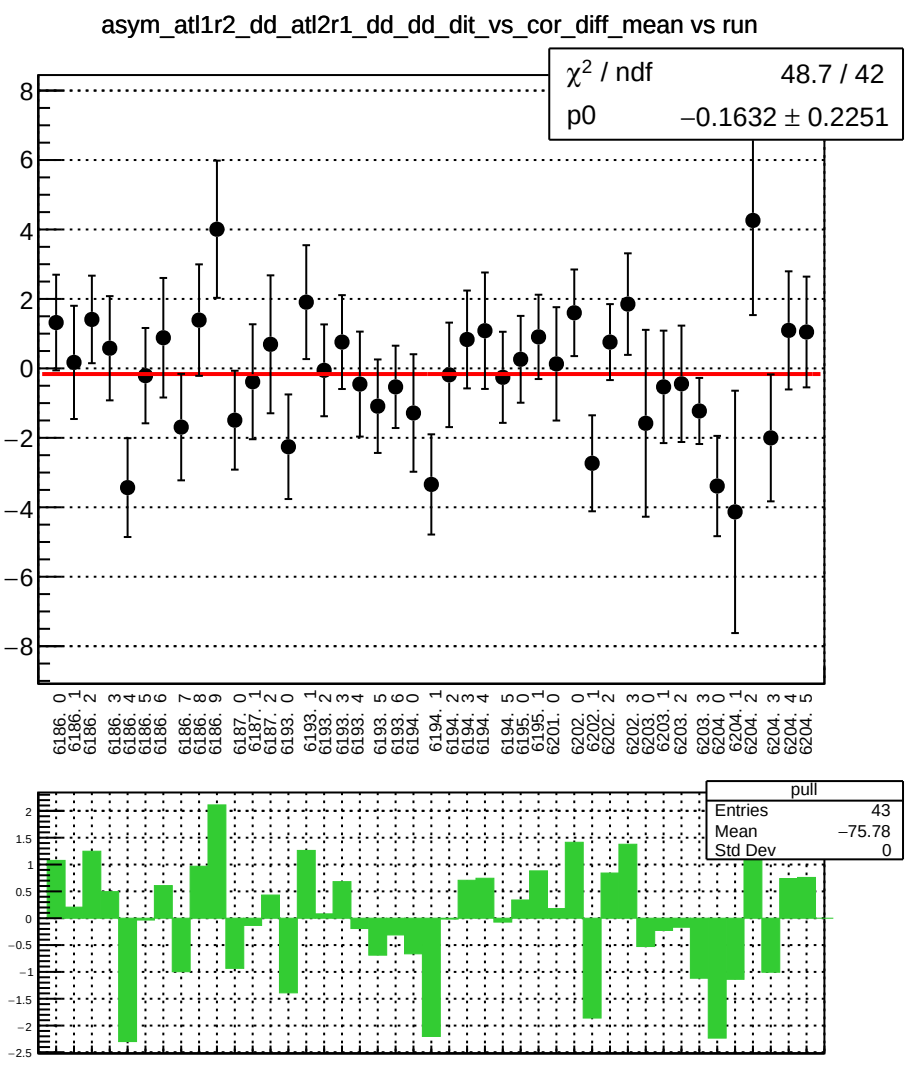

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ^2 / ndf 56.23 / 42
p0 4411 ± 6528
pull
Entries 43
Mean 27.31
Std Dev 5.352

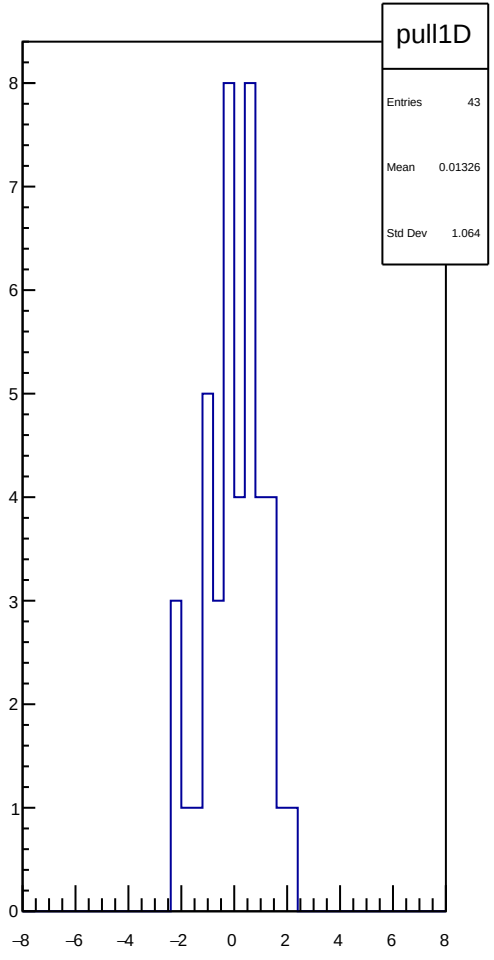

pull1D
Entries 43
Mean 0.01158
Std Dev 1.143

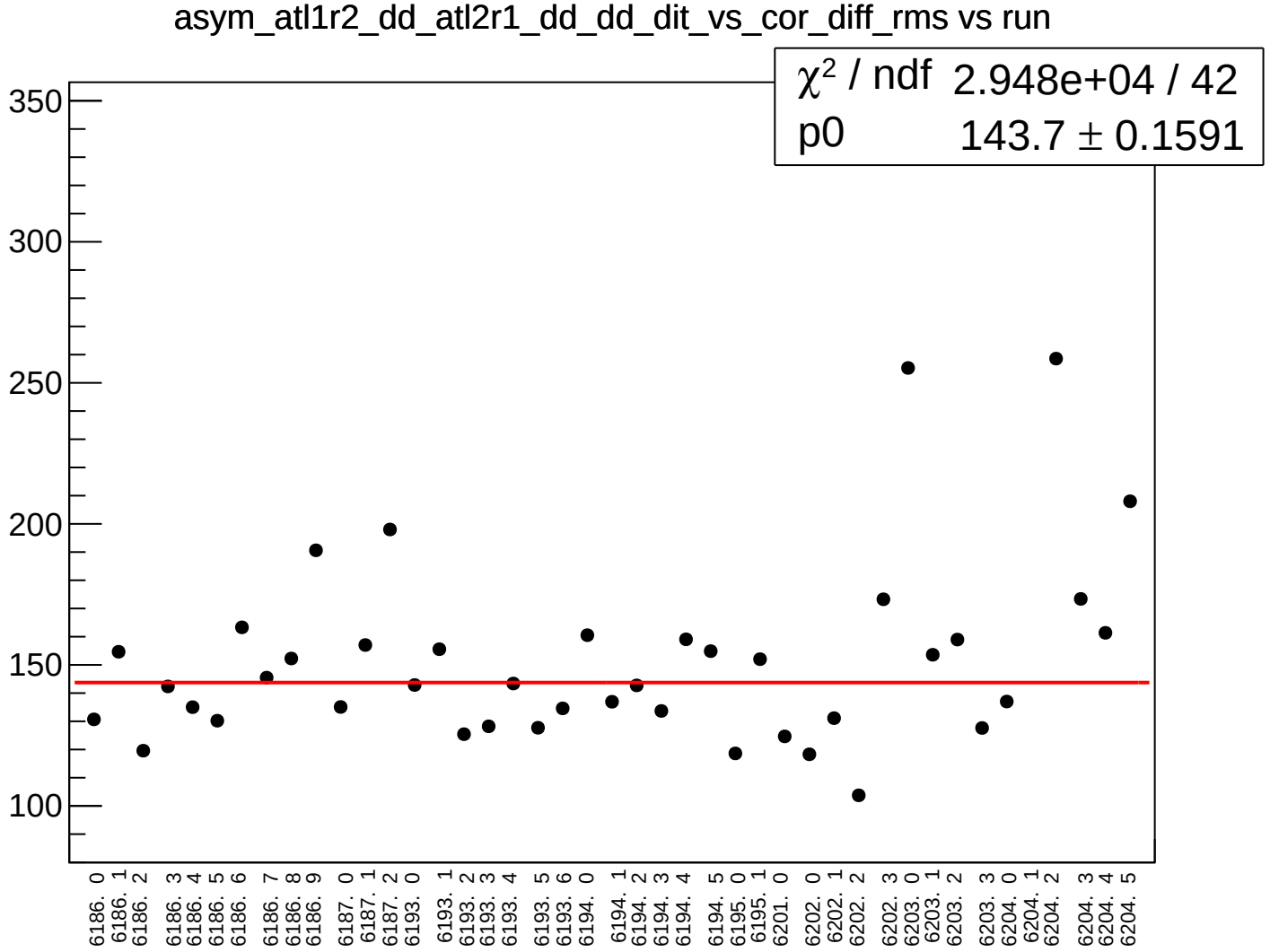

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 3407 / 42
p0 4235 ± 4.616
4800
4600
4400
4200
4000
3800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

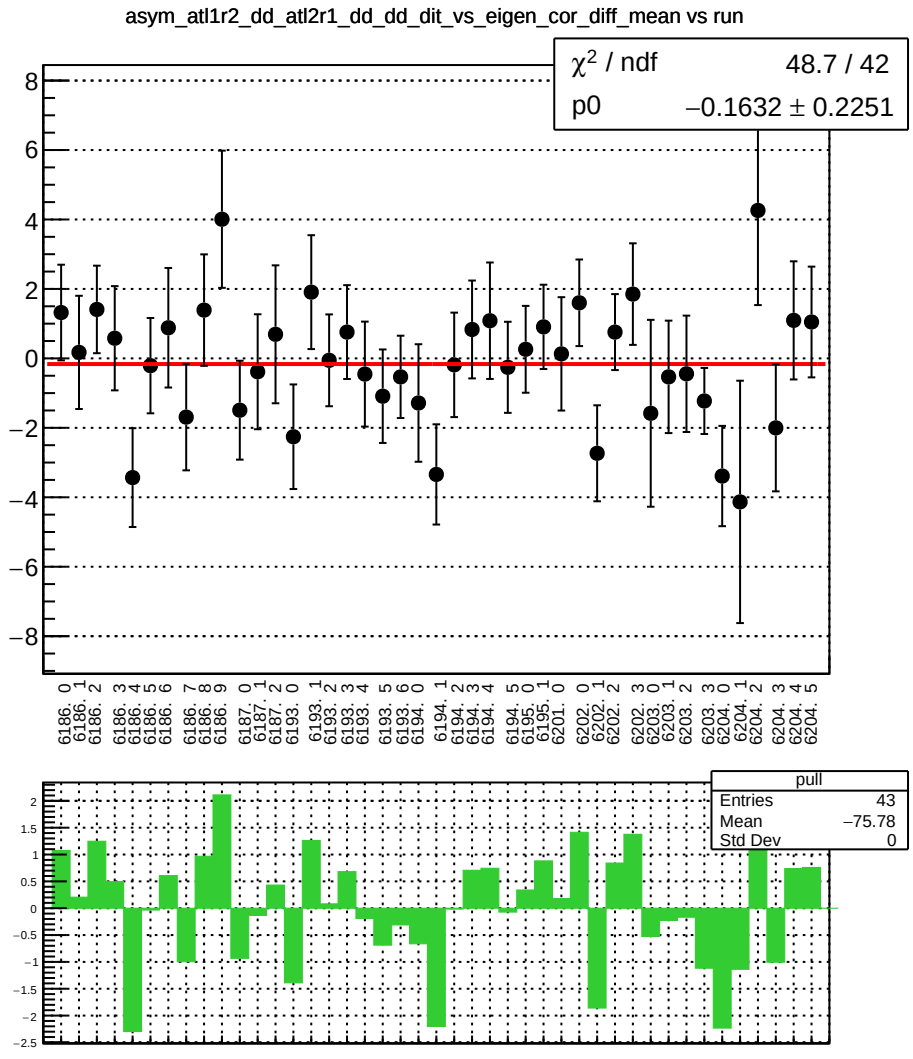

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 45.92 / 42
p0 −7.523e−13 ± 7.612e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −48.72
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03738
Std Dev 1.033
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

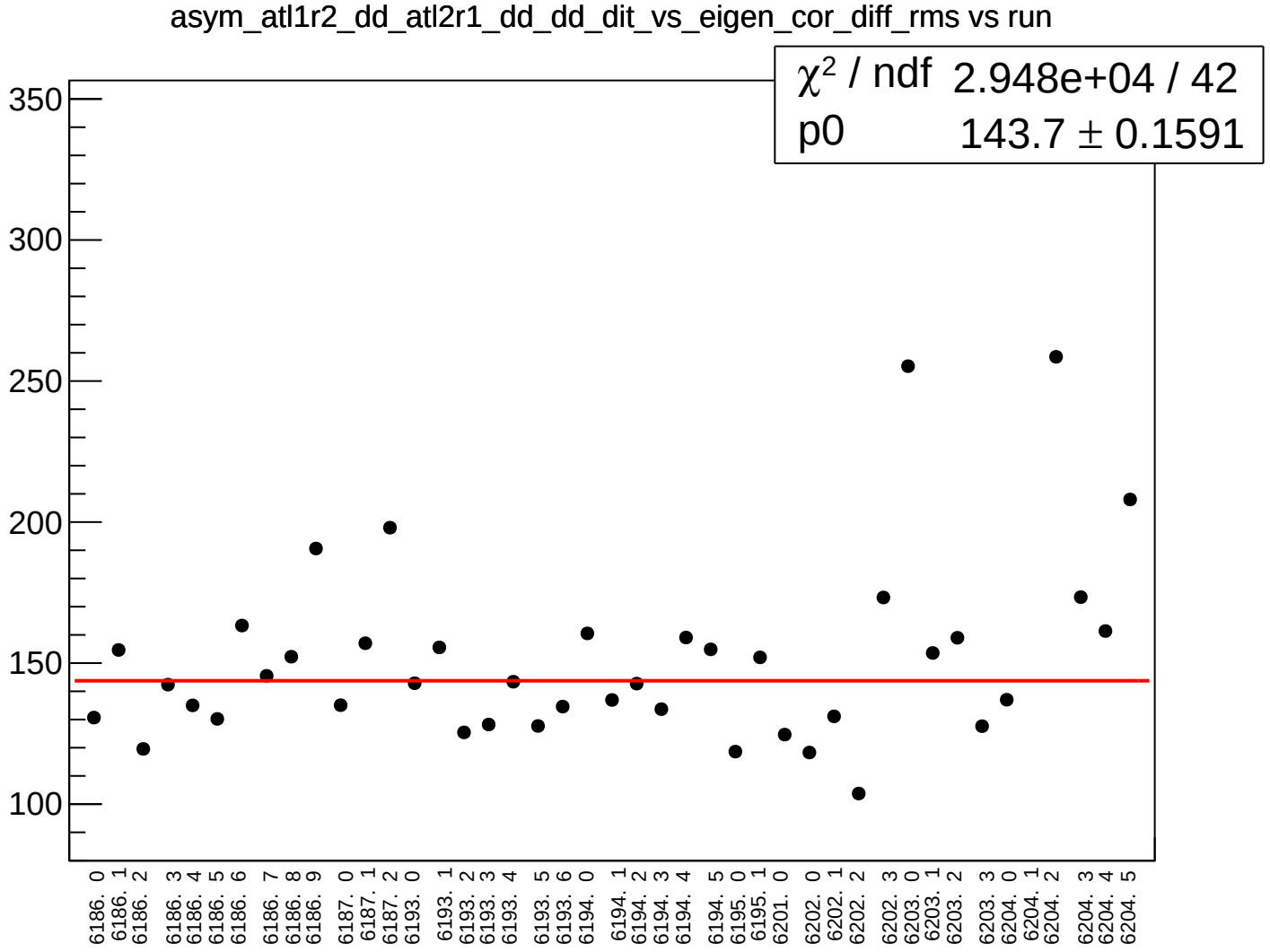

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.25e+05 / 42
p0 3.046e−10 ± 5.383e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

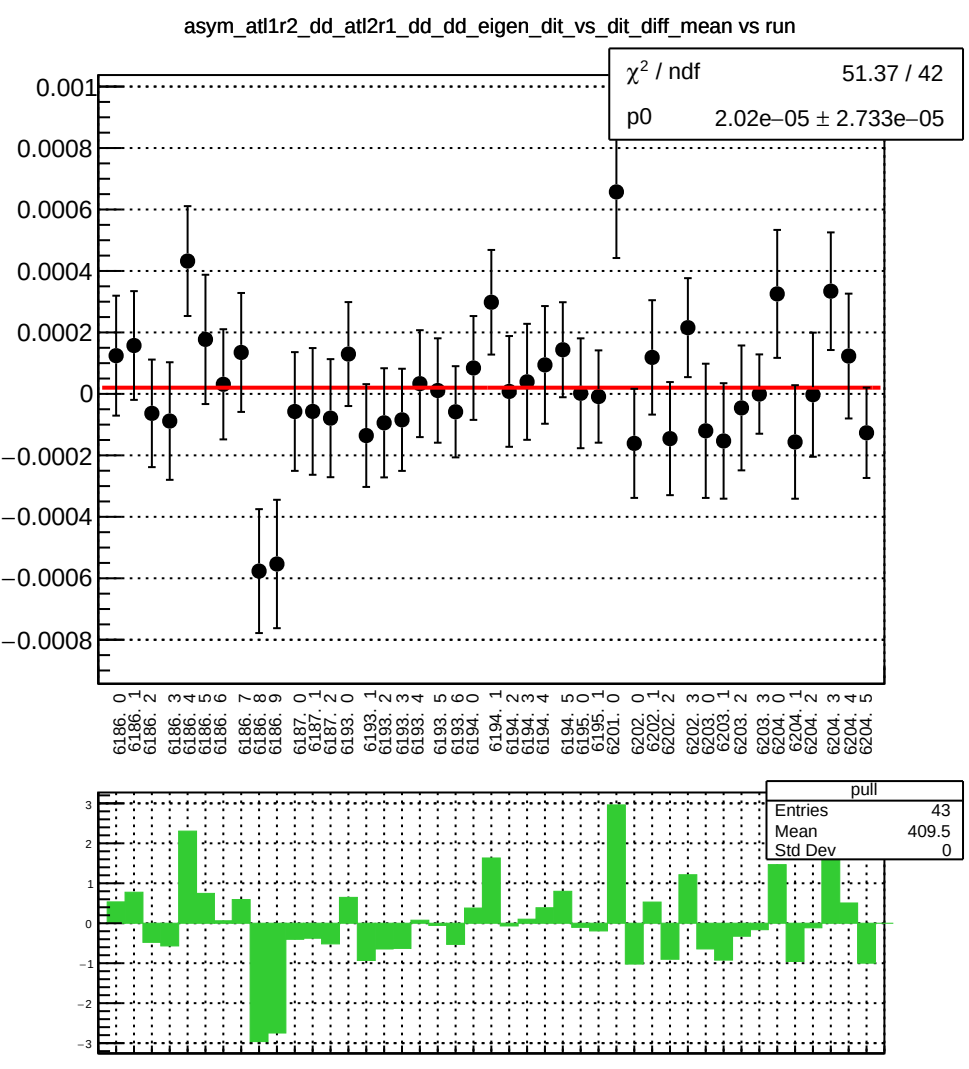

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 48.7 / 42
p0 −0.1632 ± 0.2251
pull
Entries 43
Mean −75.78
Std Dev 0

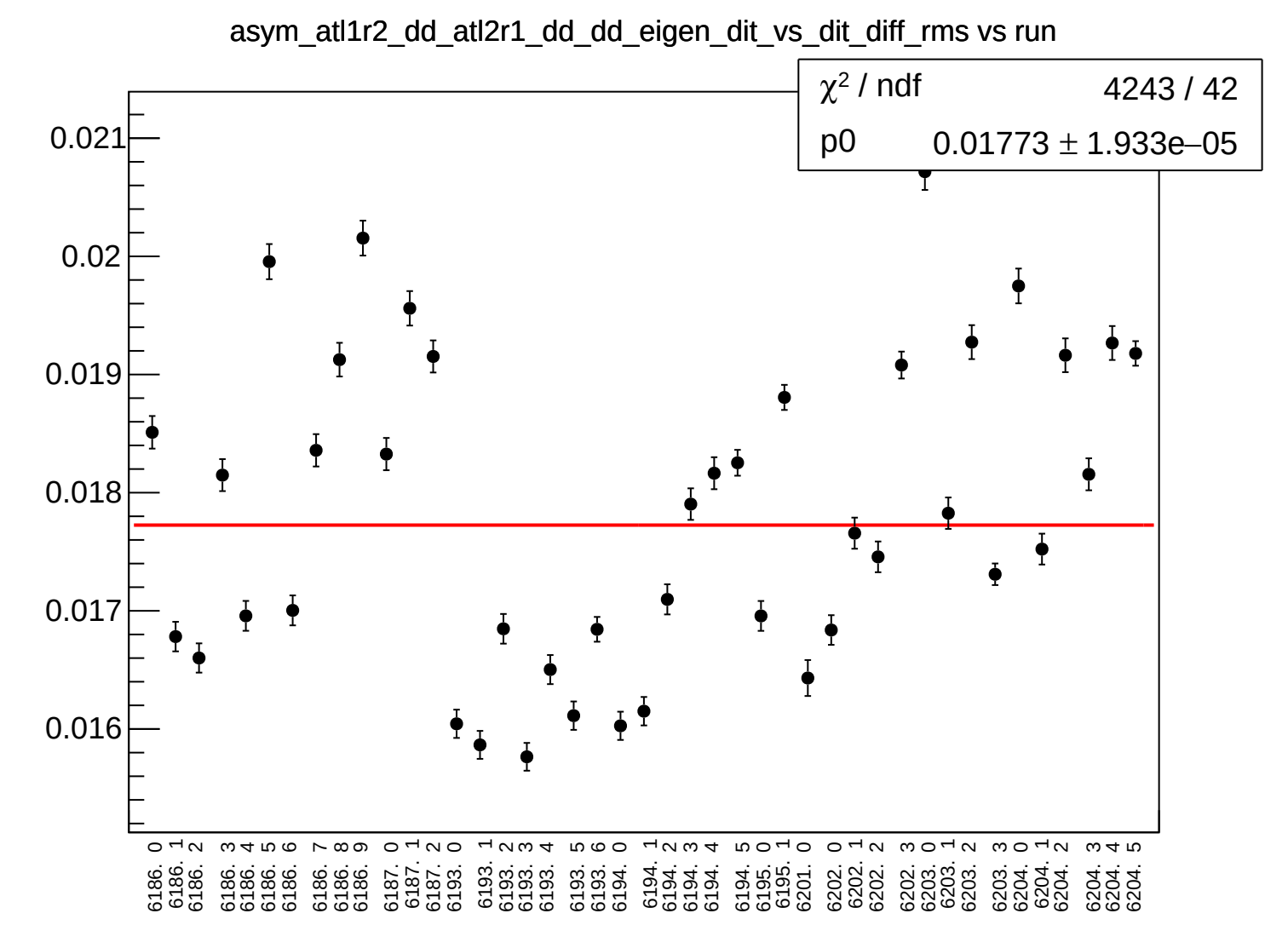

pull1D
Entries 43
Mean 0.01326
Std Dev 1.064

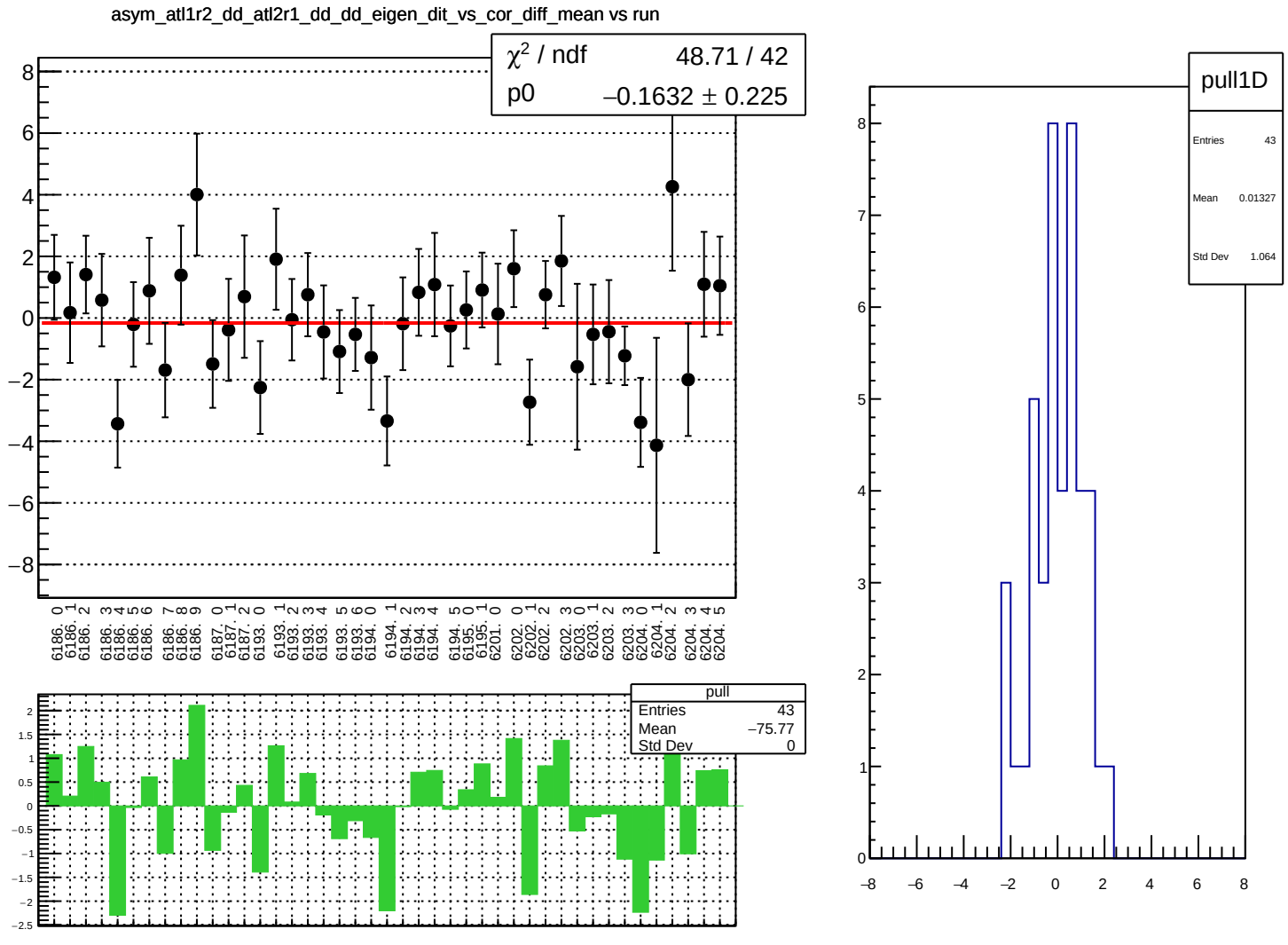

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.948e+04 / 42
p0 143.7 ± 0.1591
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

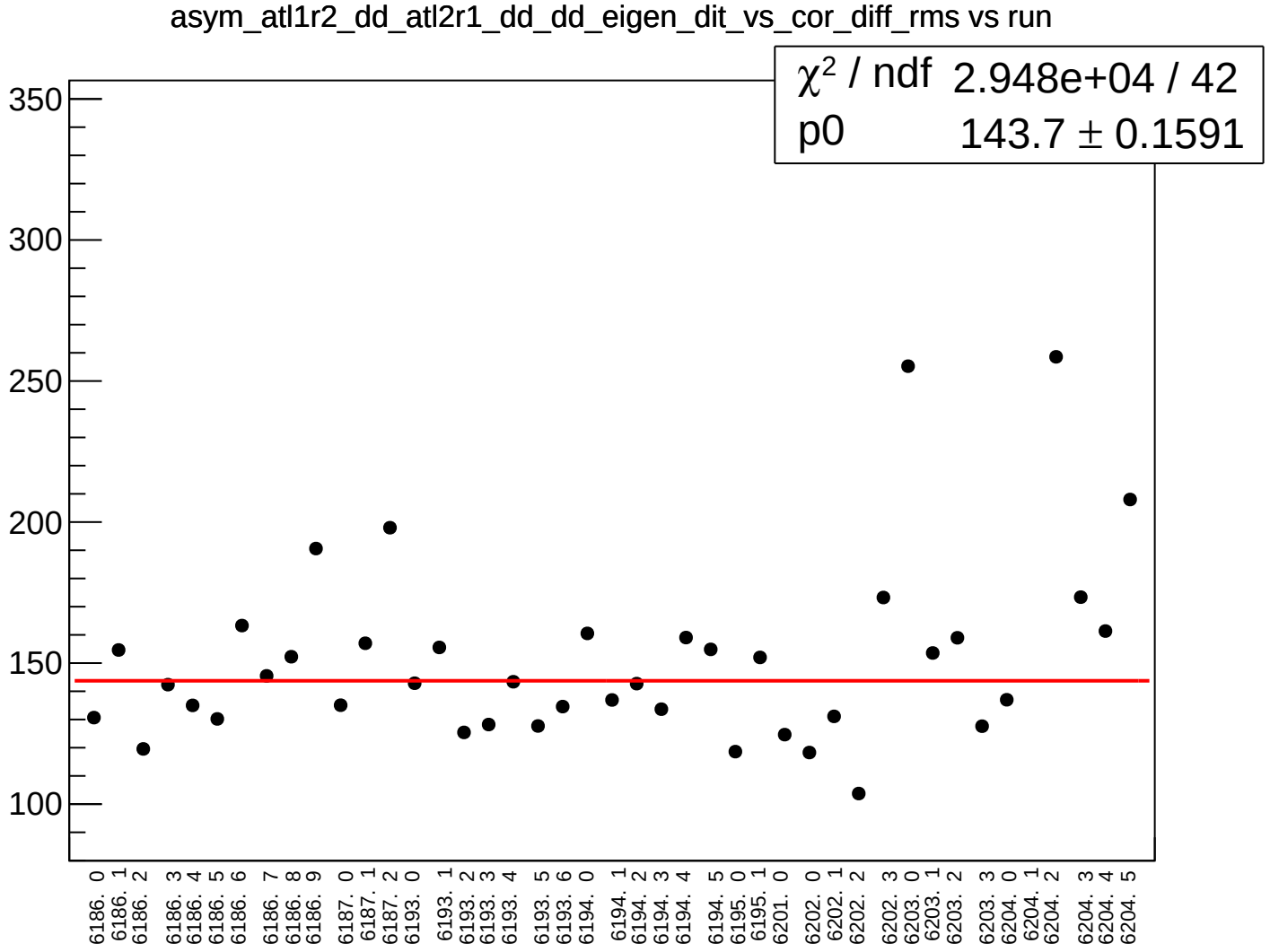

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.7 / 42
p0 −0.1632 ± 0.2251
pull
Entries 43
Mean −75.78
Std Dev 0
pull1D
Entries 43
Mean 0.01326
Std Dev 1.064

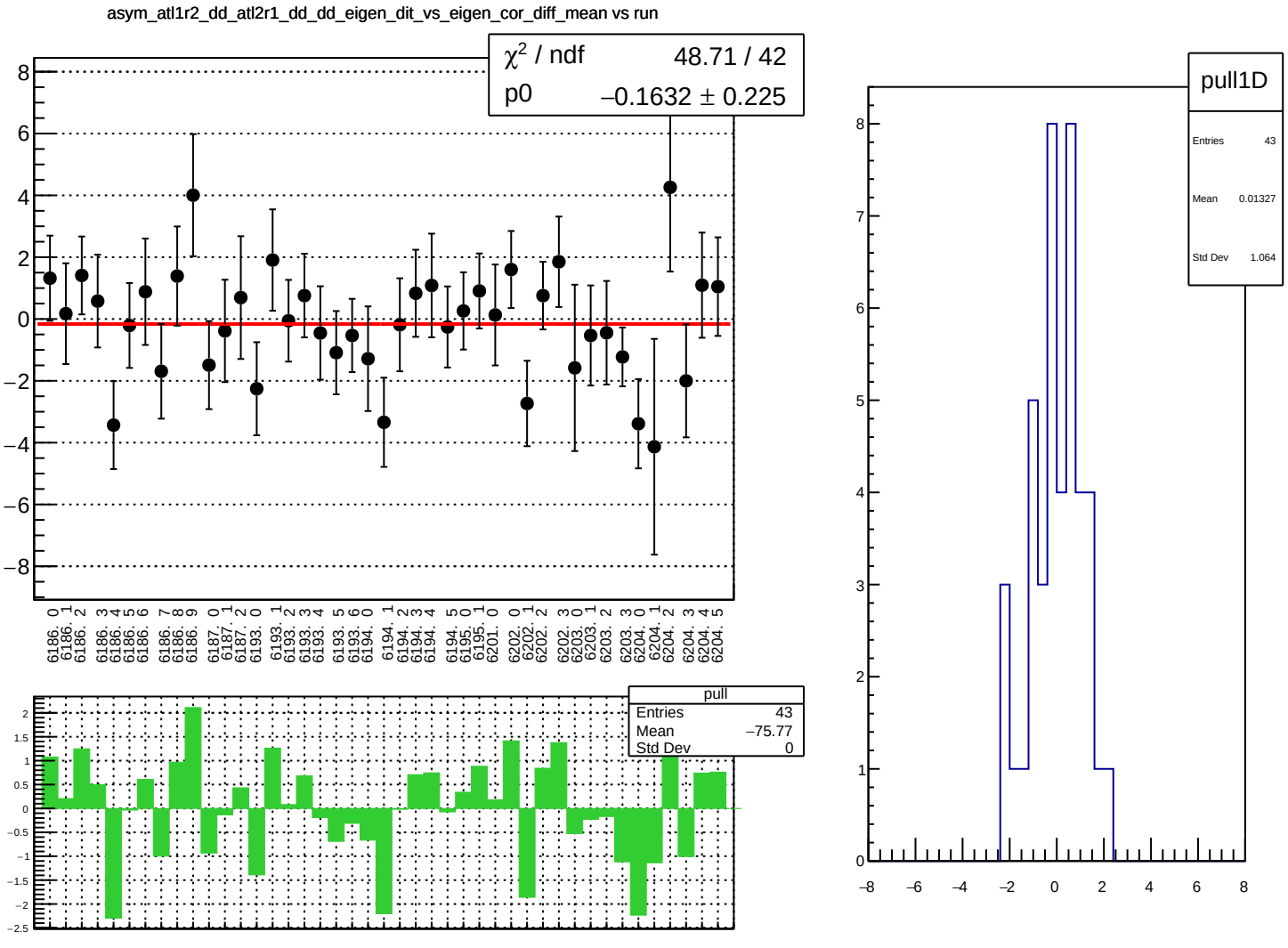

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.948e+04 / 42
p0 143.7 ± 0.1591
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

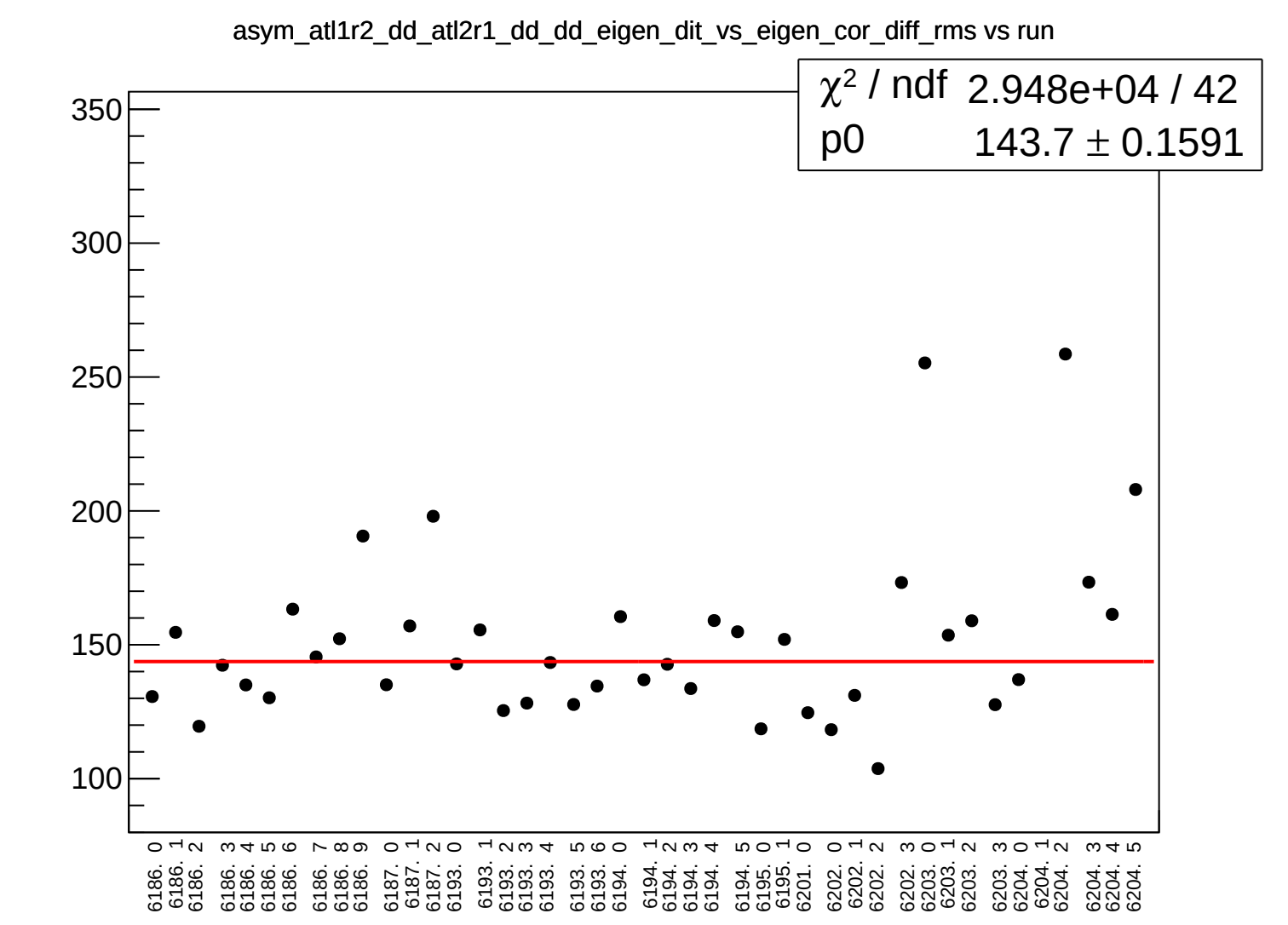

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 51.37 / 42
p0 2.02e−05 ± 2.733e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 409.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.002918
Std Dev 1.093
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4243 / 42
p0 0.01773 ± 1.933e−05
0.021
0.02
0.019
0.018
0.017
0.016
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.71 / 42
p0 −0.1632 ± 0.225
pull
Entries 43
Mean −75.77
Std Dev 0
pull1D
Entries 43
Mean 0.01327
Std Dev 1.064


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.948e+04 / 42
p0 143.7 ± 0.1591
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.71 / 42
p0 −0.1632 ± 0.225
pull
Entries 43
Mean −75.77
Std Dev 0
pull1D
Entries 43
Mean 0.01327
Std Dev 1.064


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.948e+04 / 42
p0 143.7 ± 0.1591
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
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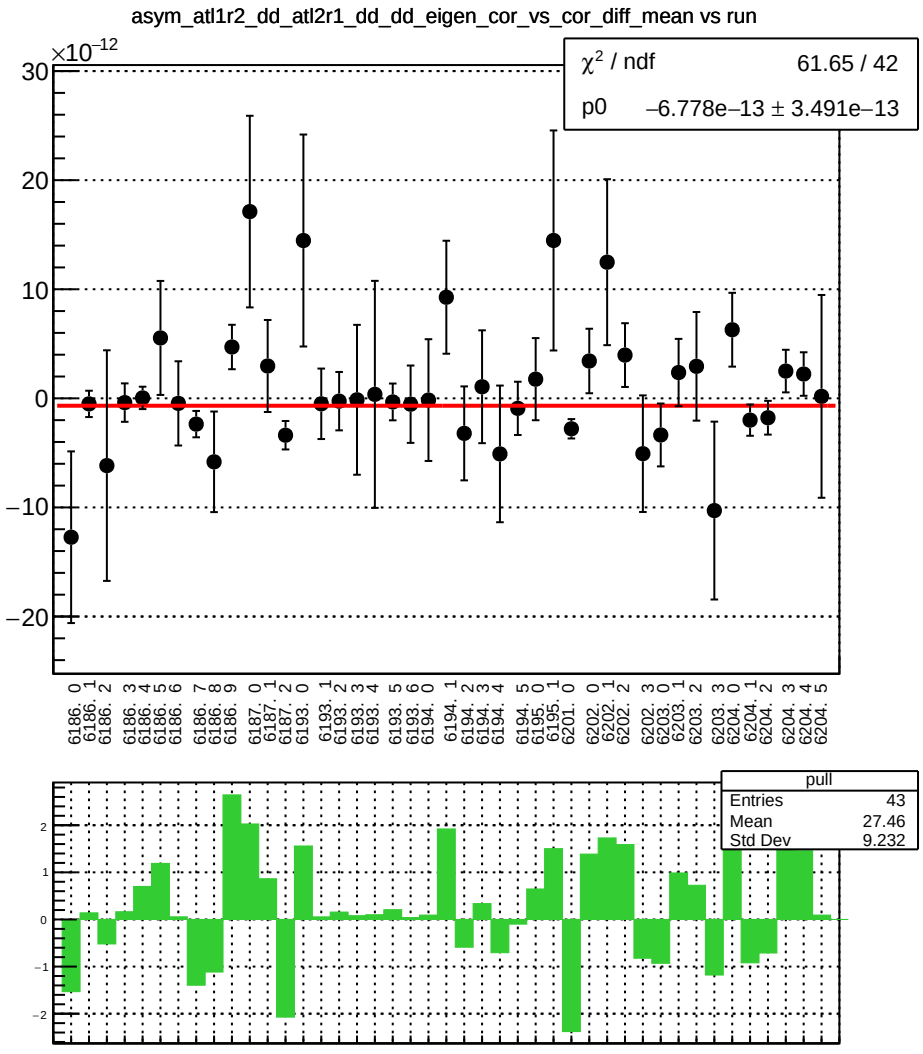
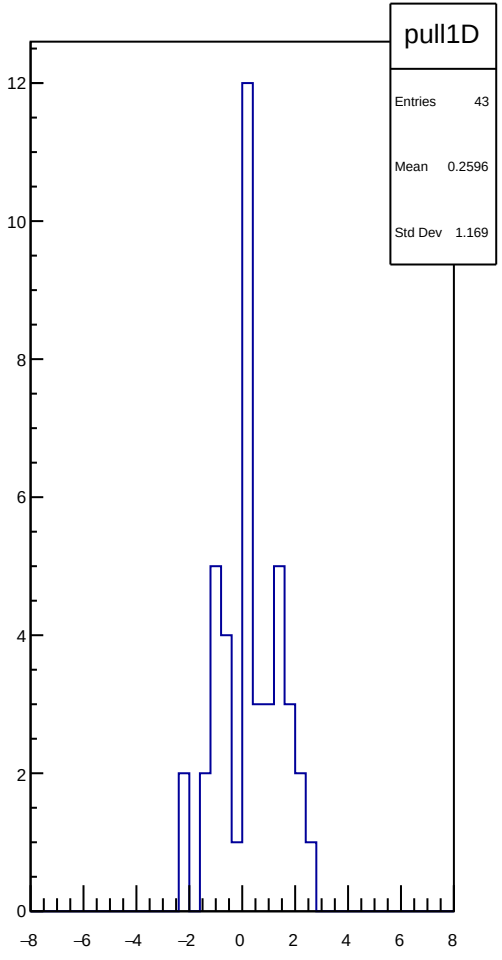
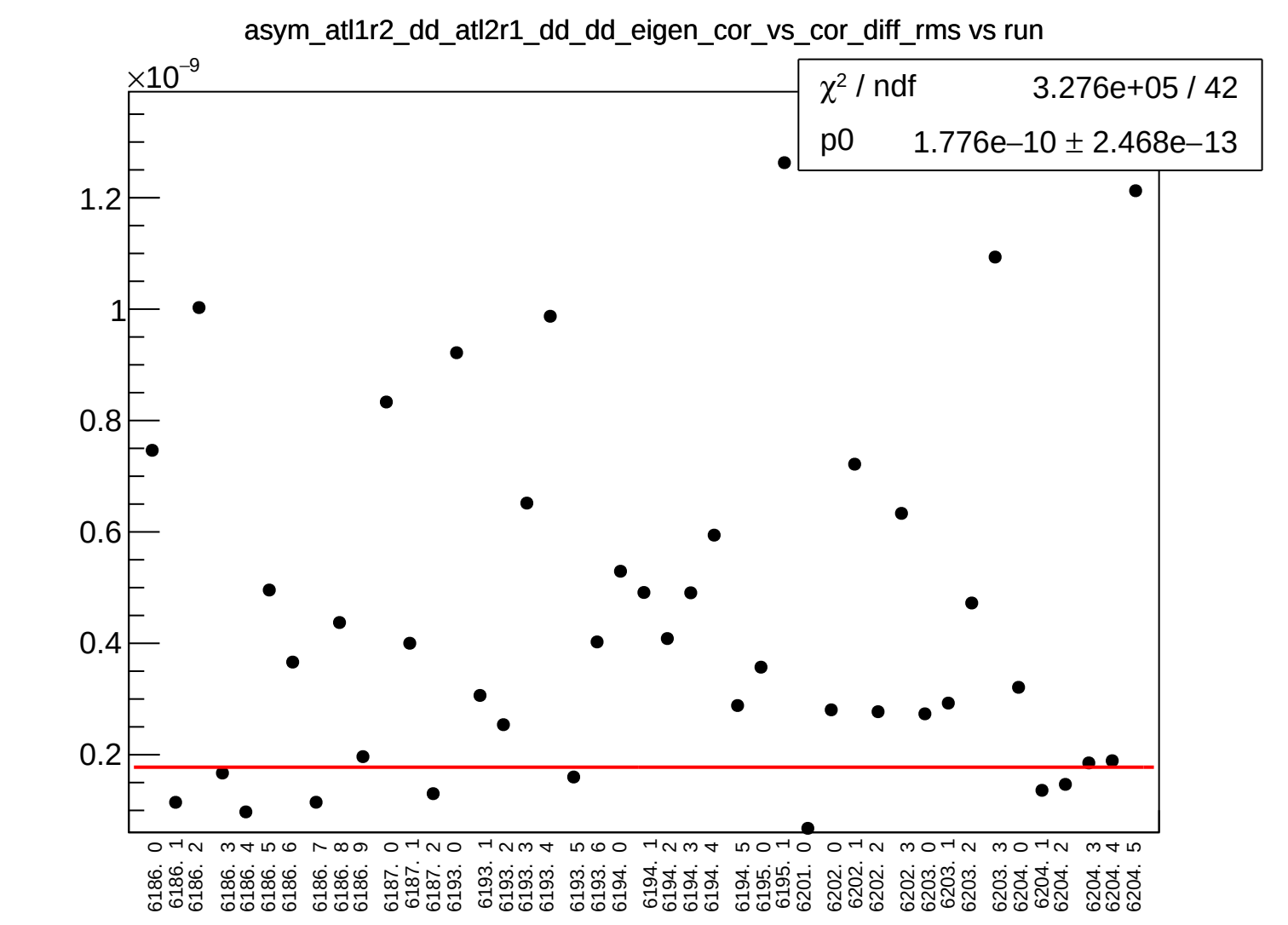
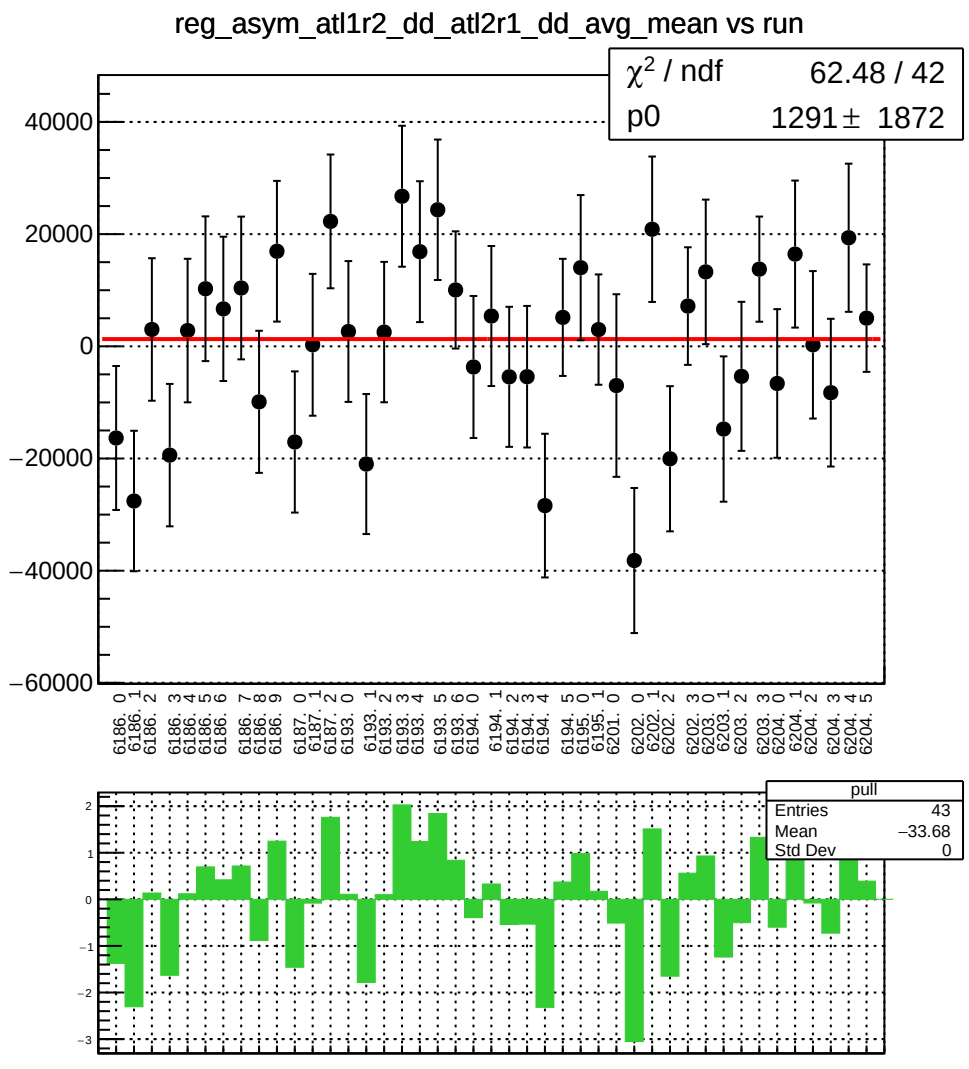
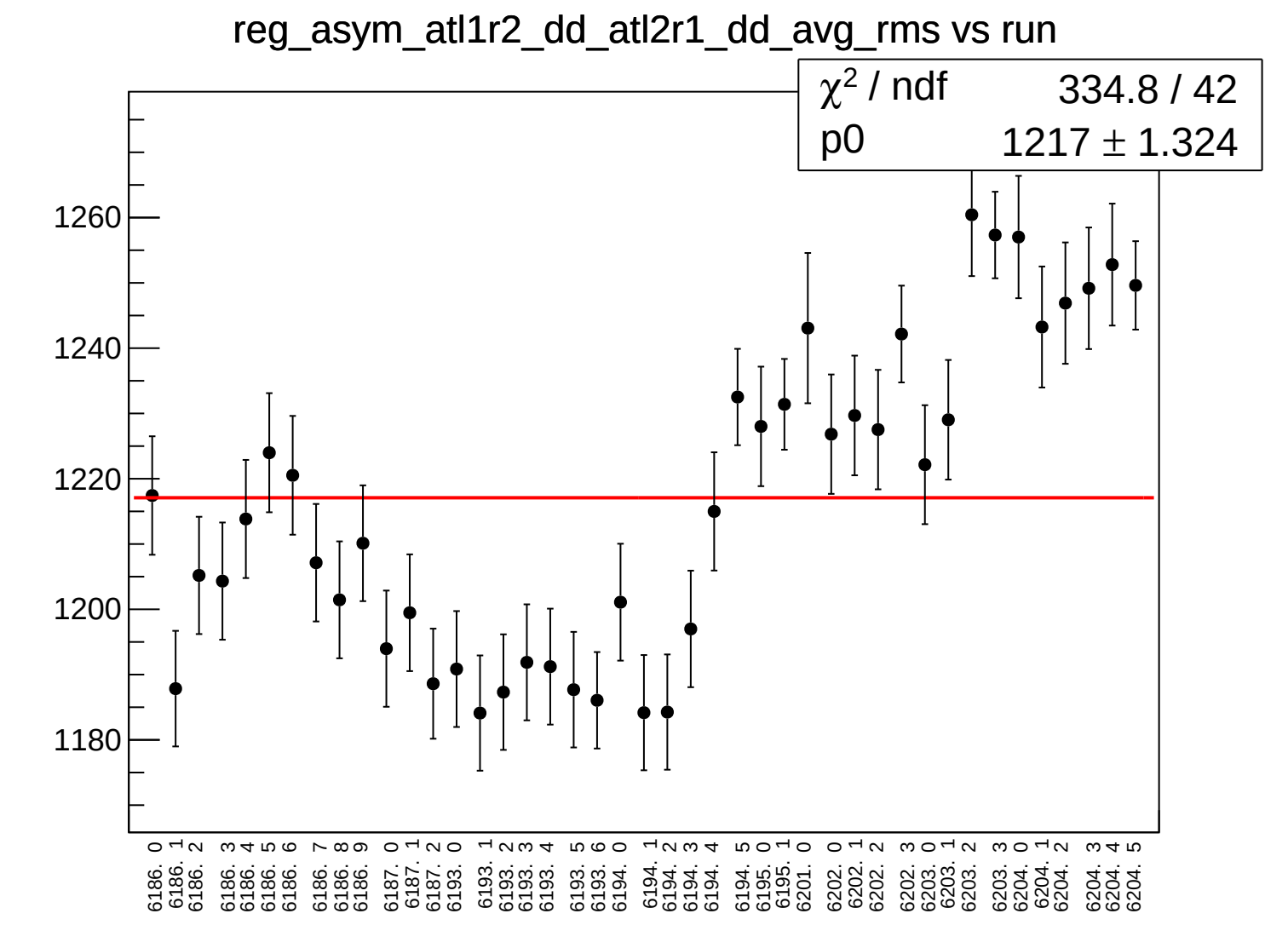
6204. 4
6204. 5


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.65 / 42
p0 −6.778e−13 ± 3.491e−13
pull
Entries 43
Mean 27.46
Std Dev 9.232


pull1D
Entries 43
Mean 0.2596
Std Dev 1.169


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.276e+05 / 42
p0 1.776e−10 ± 2.468e−13
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 62.48 / 42
p0 1291 ± 1872
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −33.68
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.03016
Std Dev 1.205
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 334.8 / 42
p0 1217 ± 1.324
1260
1240
1220
1200
1180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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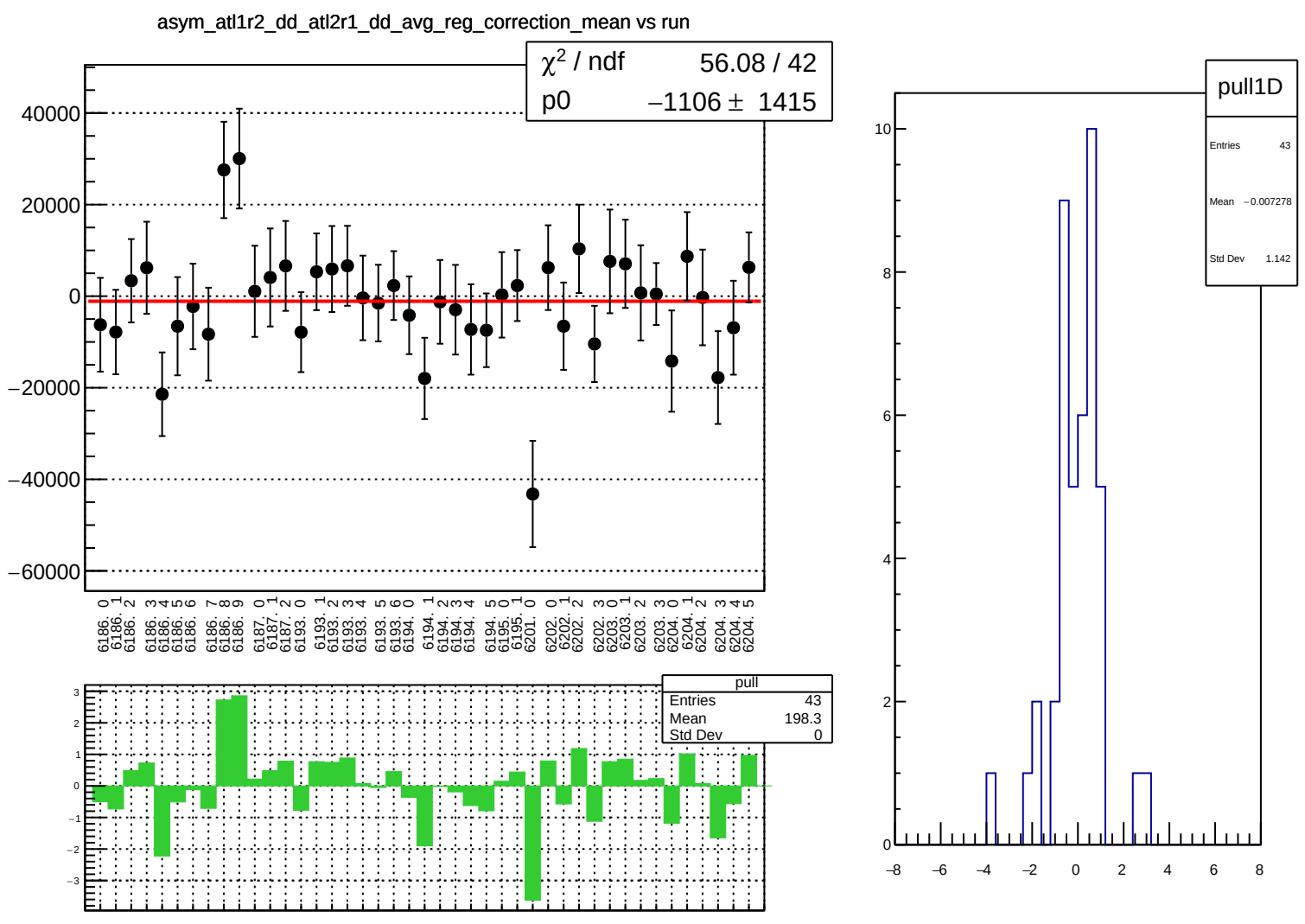
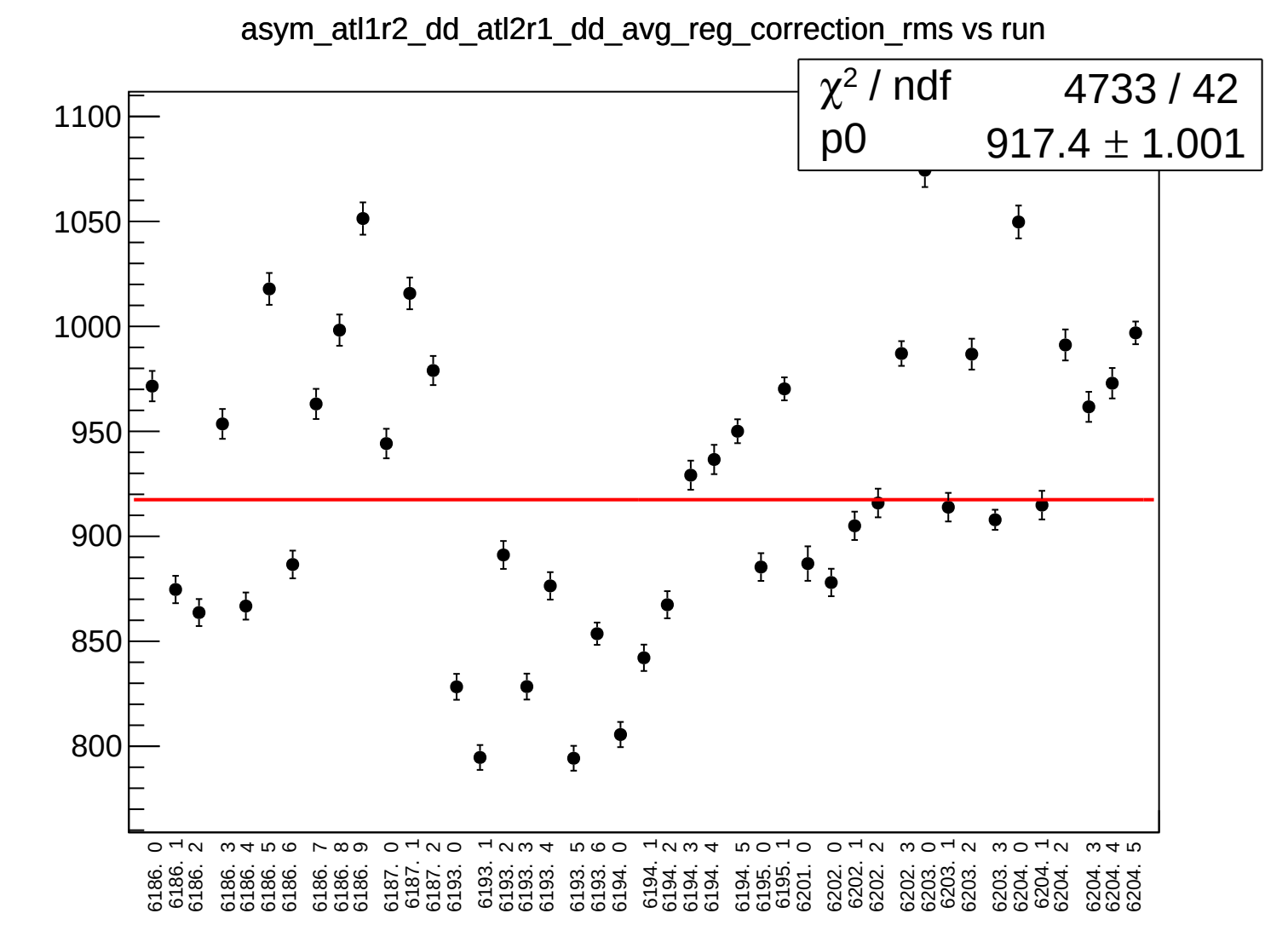
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 56.08 / 42
p0 −1106 ± 1415
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 198.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.007278
Std Dev 1.142
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 4733 / 42
p0 917.4 ± 1.001
1100
1050
1000
950
900
850
800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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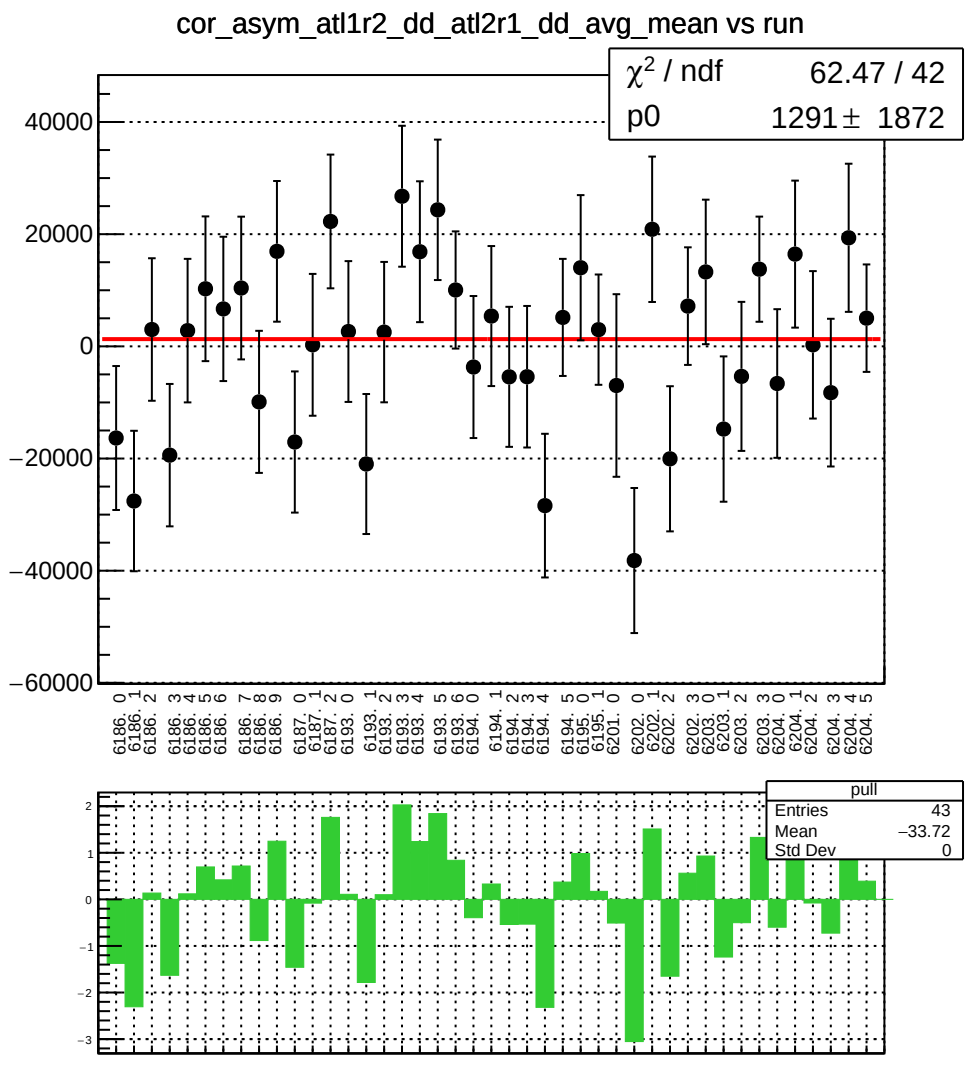
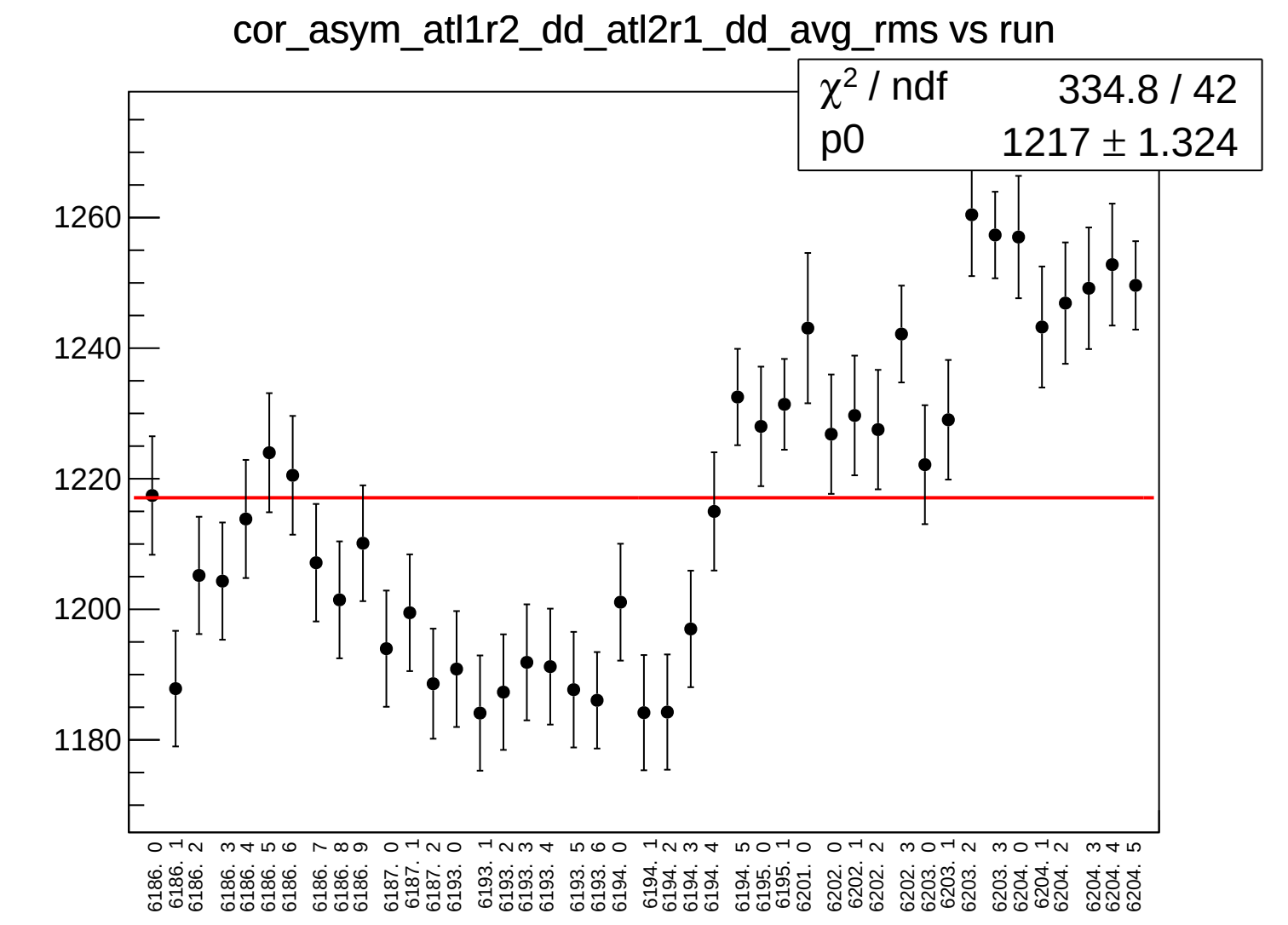
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 62.47 / 42
p0 1291 ± 1872
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −33.72
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.03015
Std Dev 1.205
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 334.8 / 42
p0 1217 ± 1.324
1260
1240
1220
1200
1180
6186. 0
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6194. 2
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6202. 1
6202. 2
6202. 3
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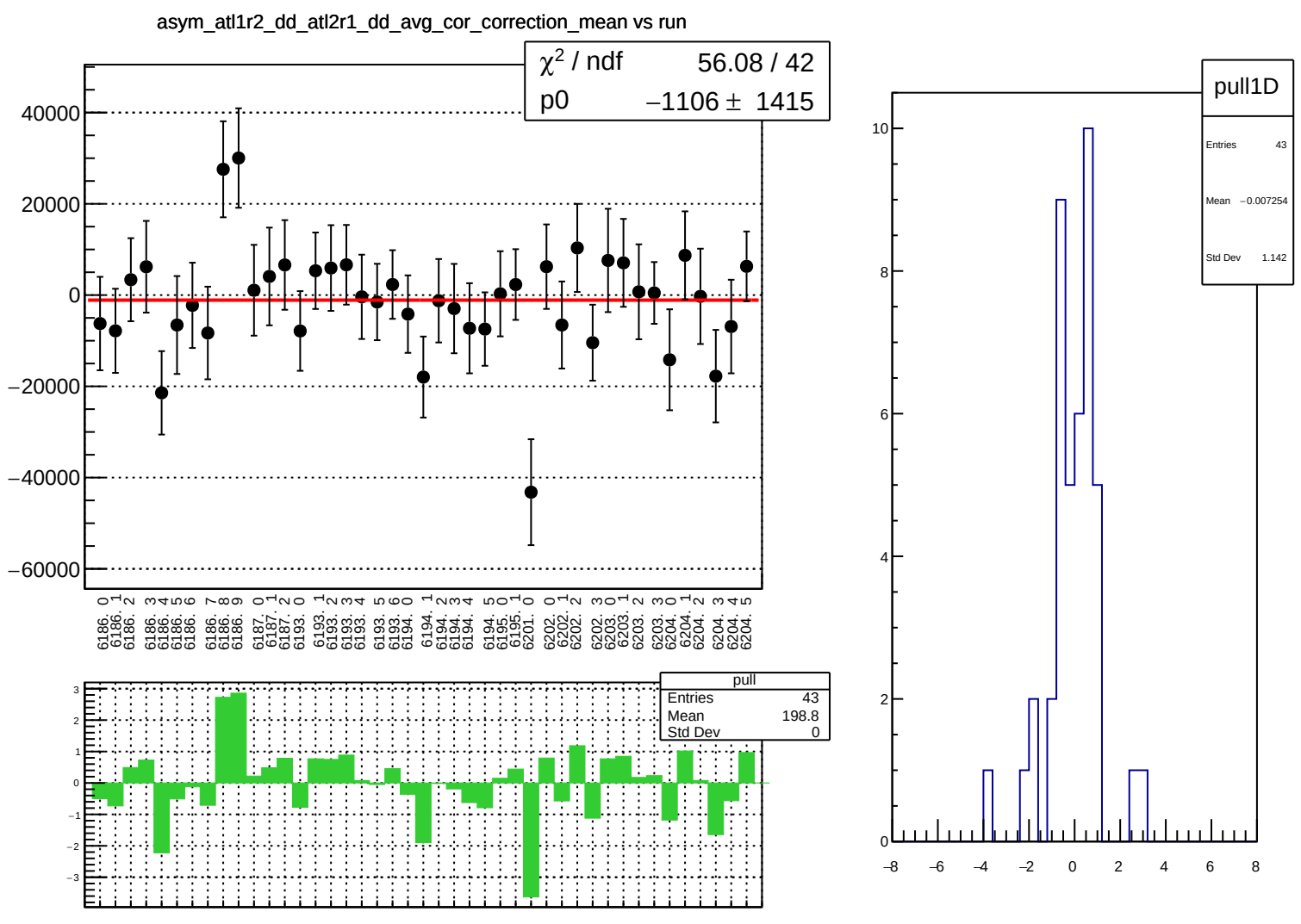
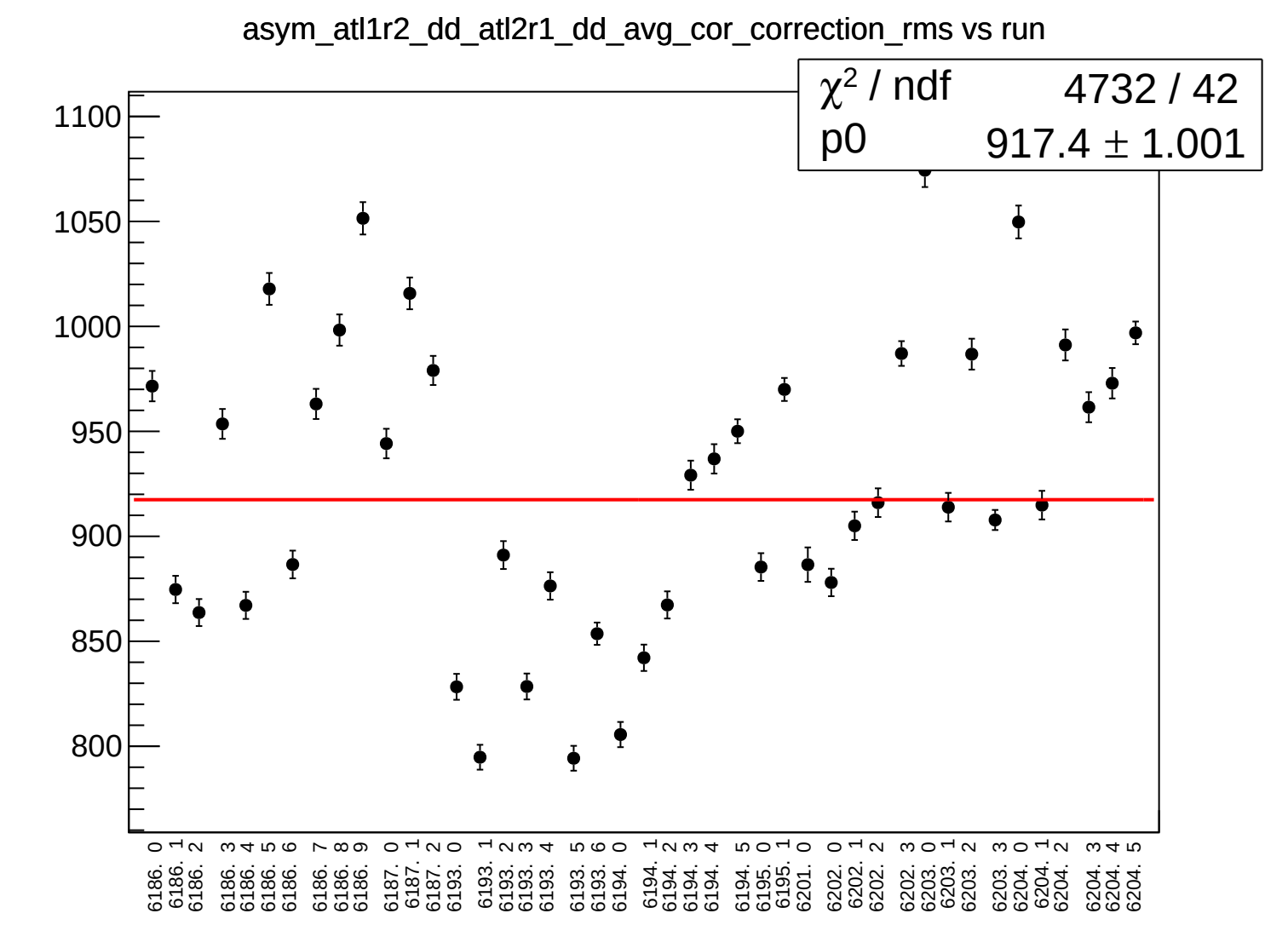
6204. 5


asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 56.08 / 42
p0 −1106 ± 1415
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 198.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.007254
Std Dev 1.142
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 4732 / 42
p0 917.4 ± 1.001
1100
1050
1000
950
900
850
800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
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6194. 0
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6194. 2
6194. 3
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6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
6204. 0
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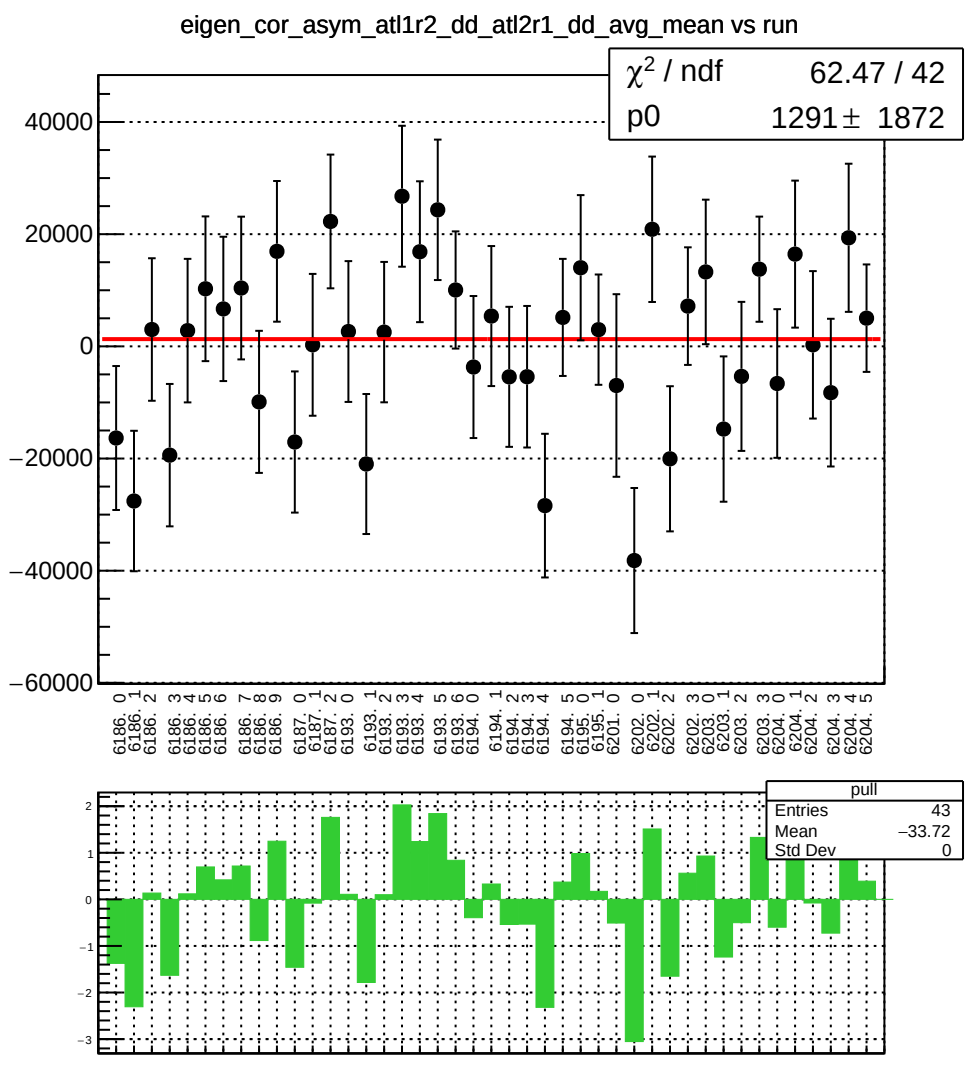
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 62.47 / 42
p0 1291 ± 1872
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −33.72
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.03015
Std Dev 1.205
8
7
6
5
4
3
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1
0
−8
−6
−4
−2
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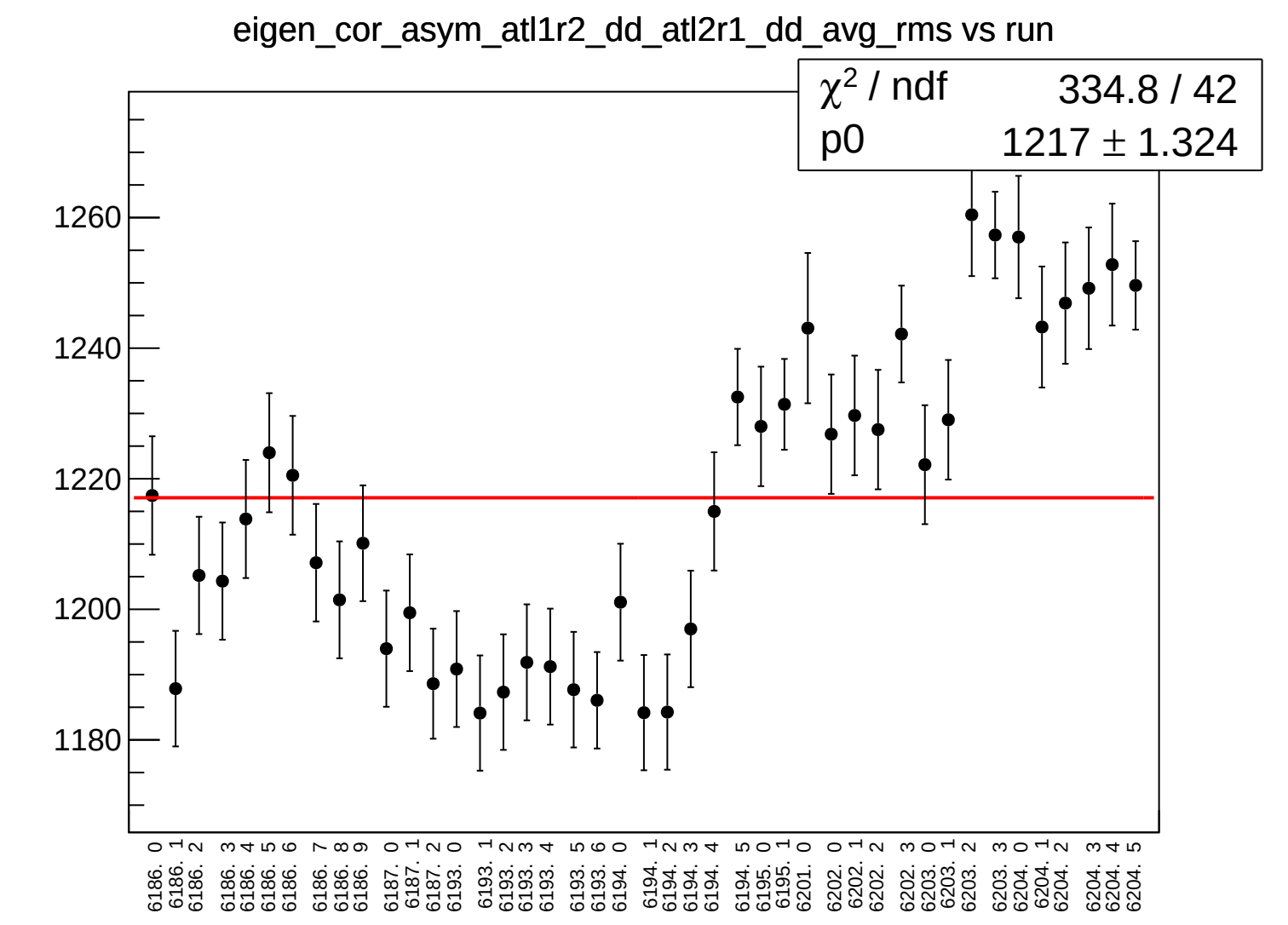
2
4
6
8


eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 334.8 / 42
p0 1217 ± 1.324
1260
1240
1220
1200
1180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
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6186. 6
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6186. 9
6187. 0
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6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
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6204. 2
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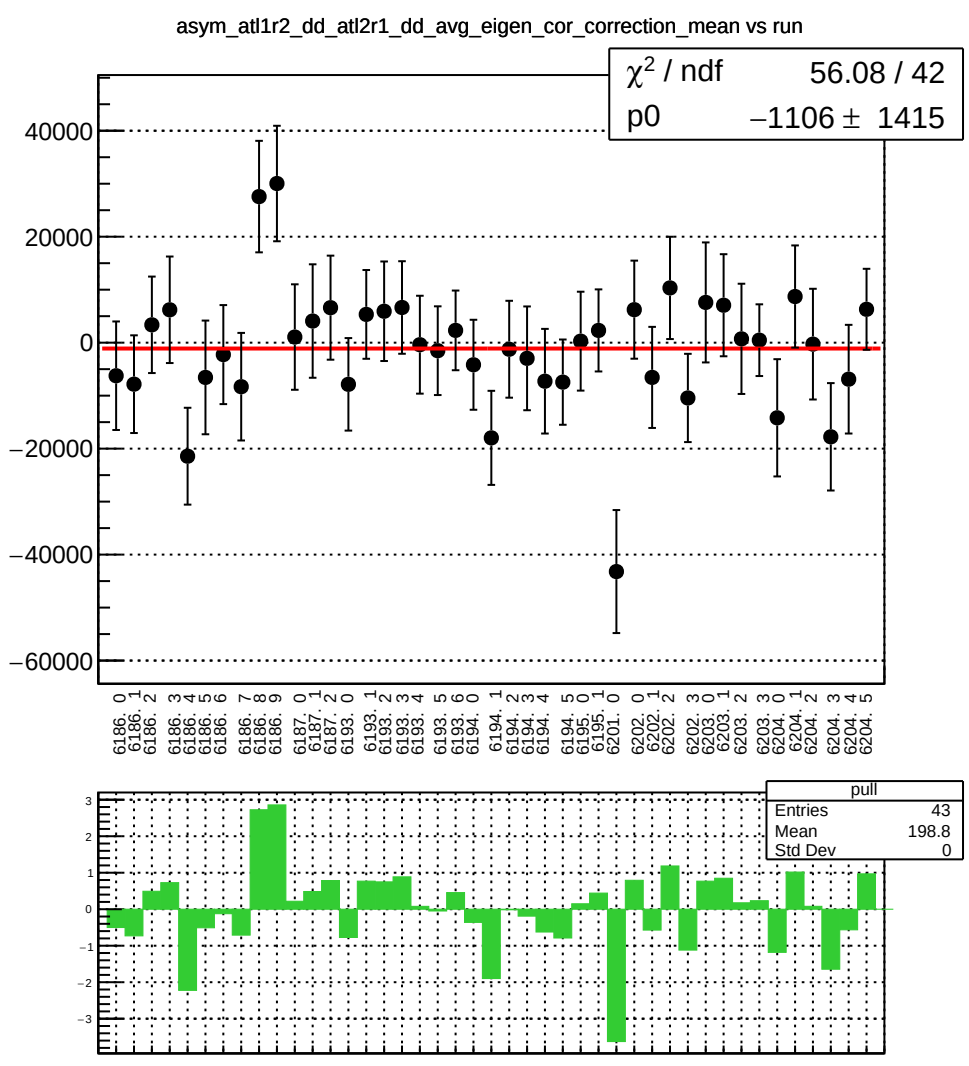
6204. 4
6204. 5


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 56.08 / 42
p0 −1106 ± 1415
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 198.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.007254
Std Dev 1.142
10
8
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−8
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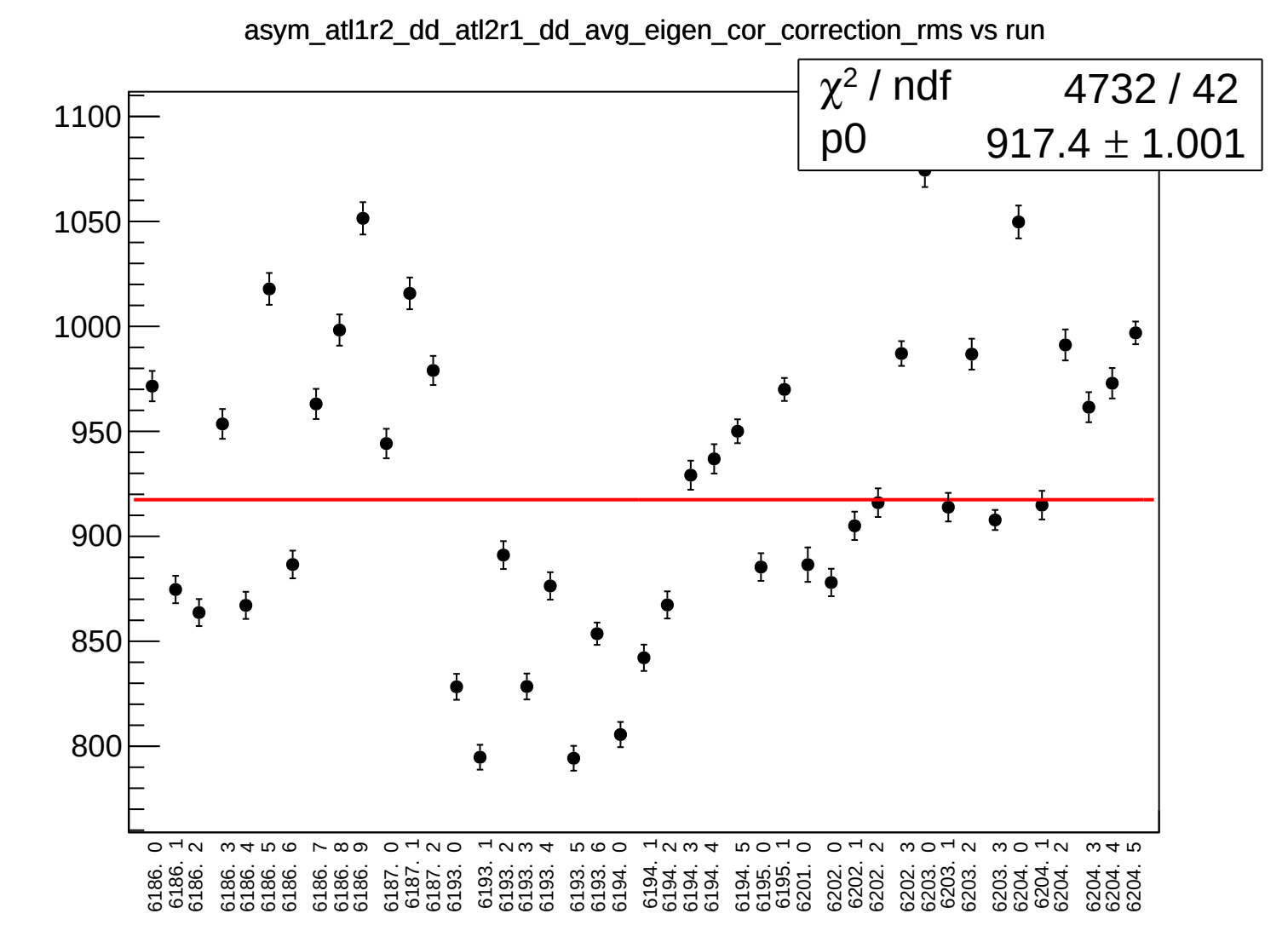
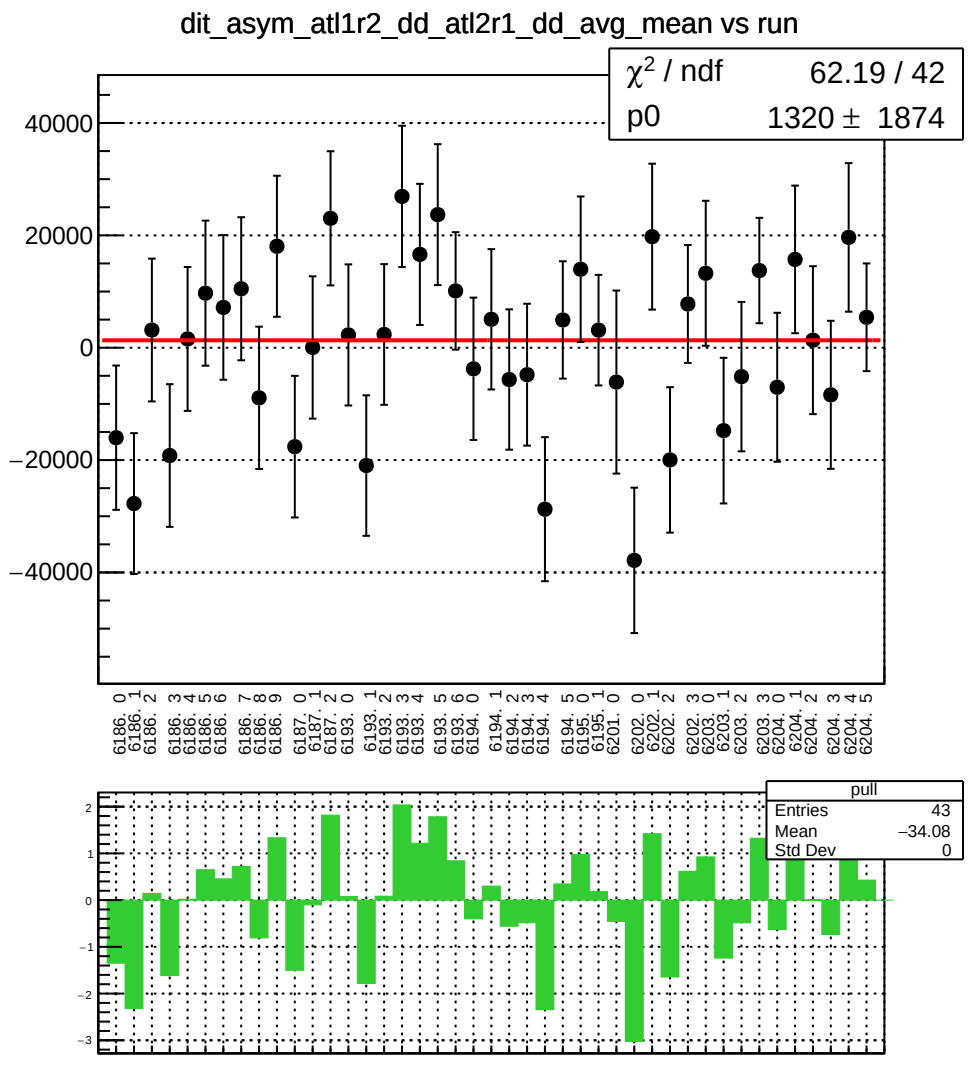
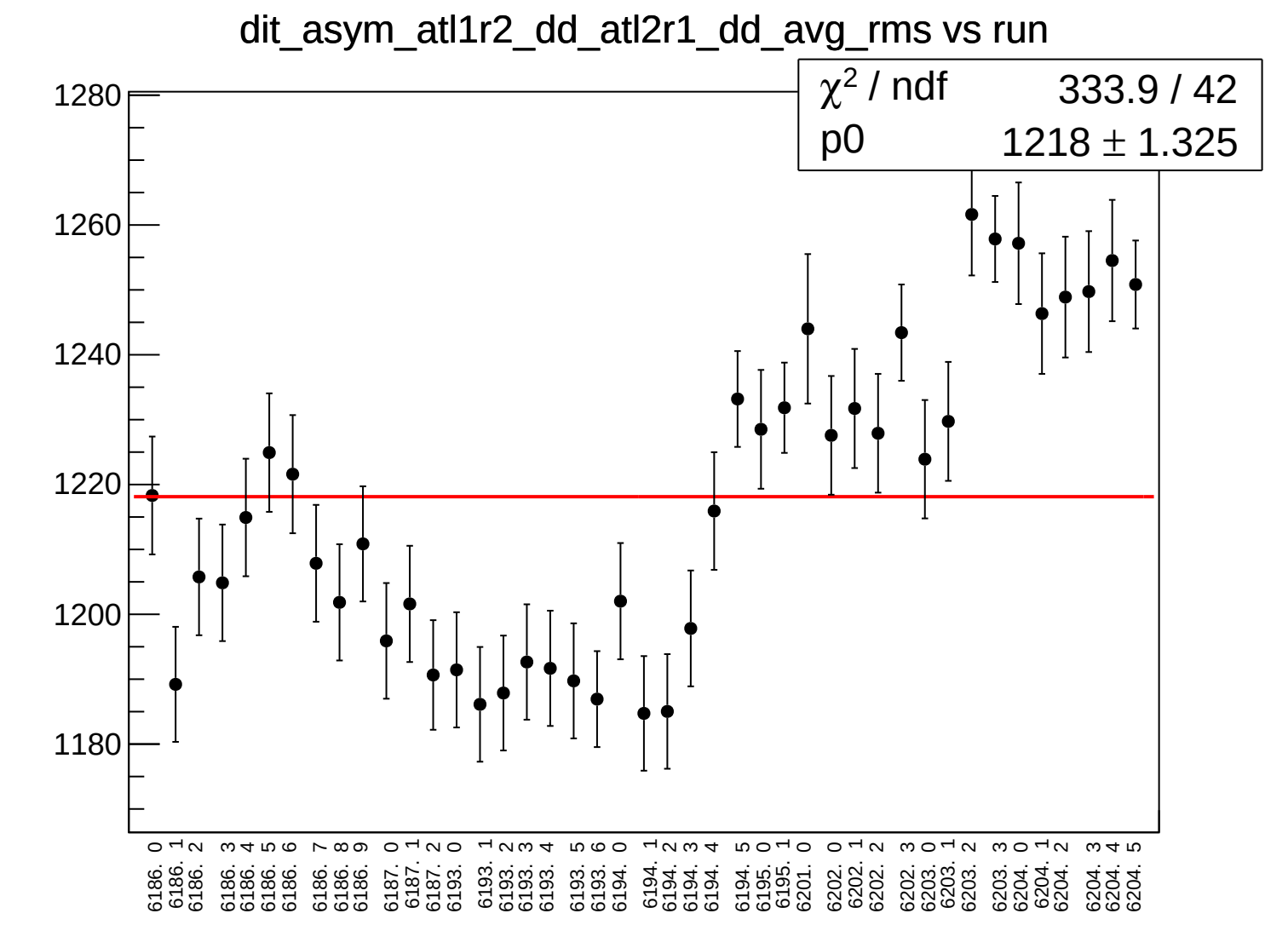
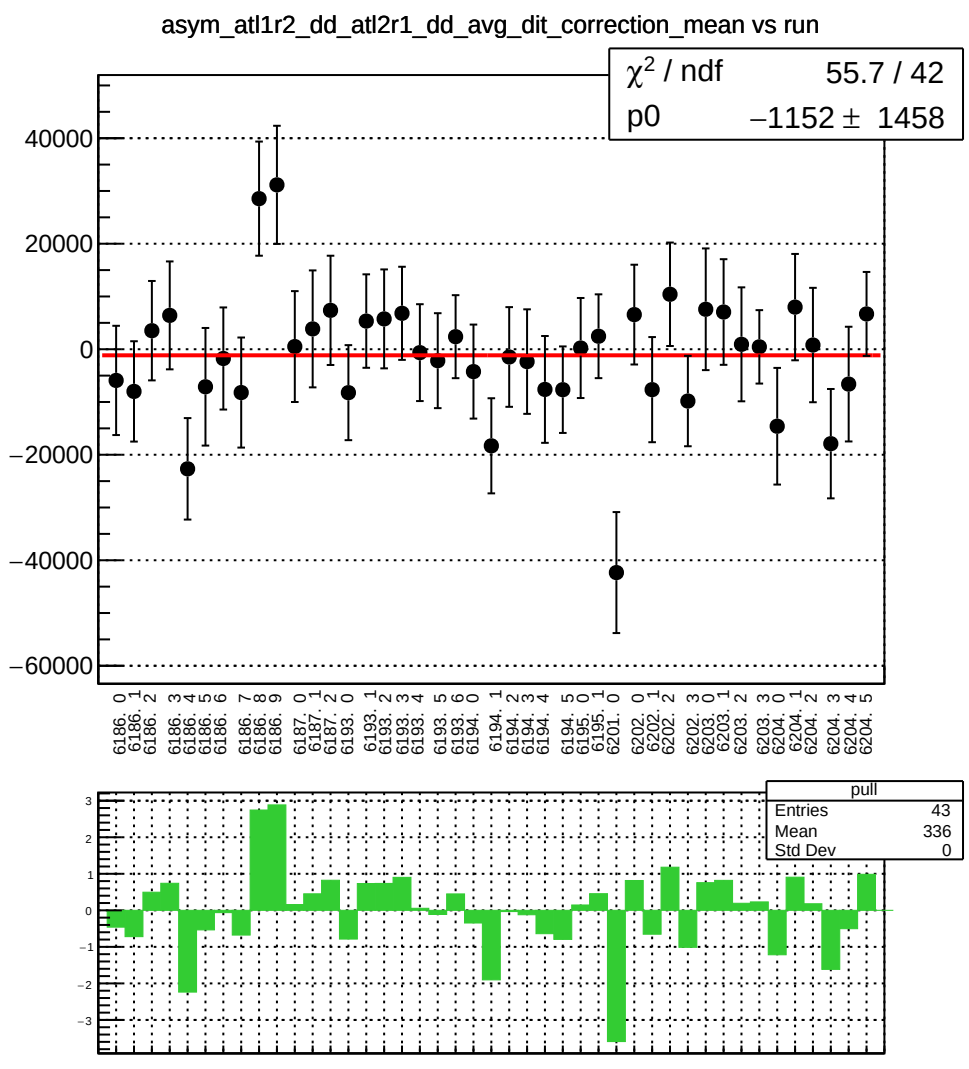
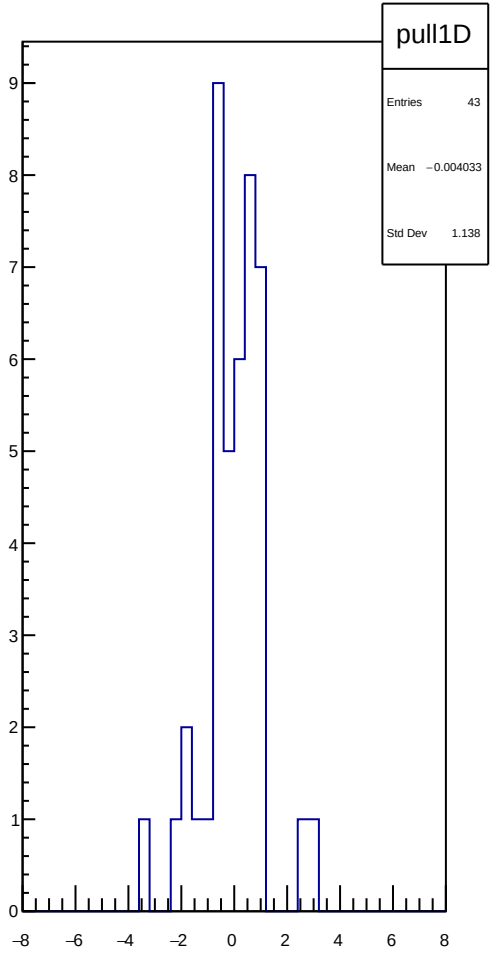
−4
−2
0
2
4
6
8

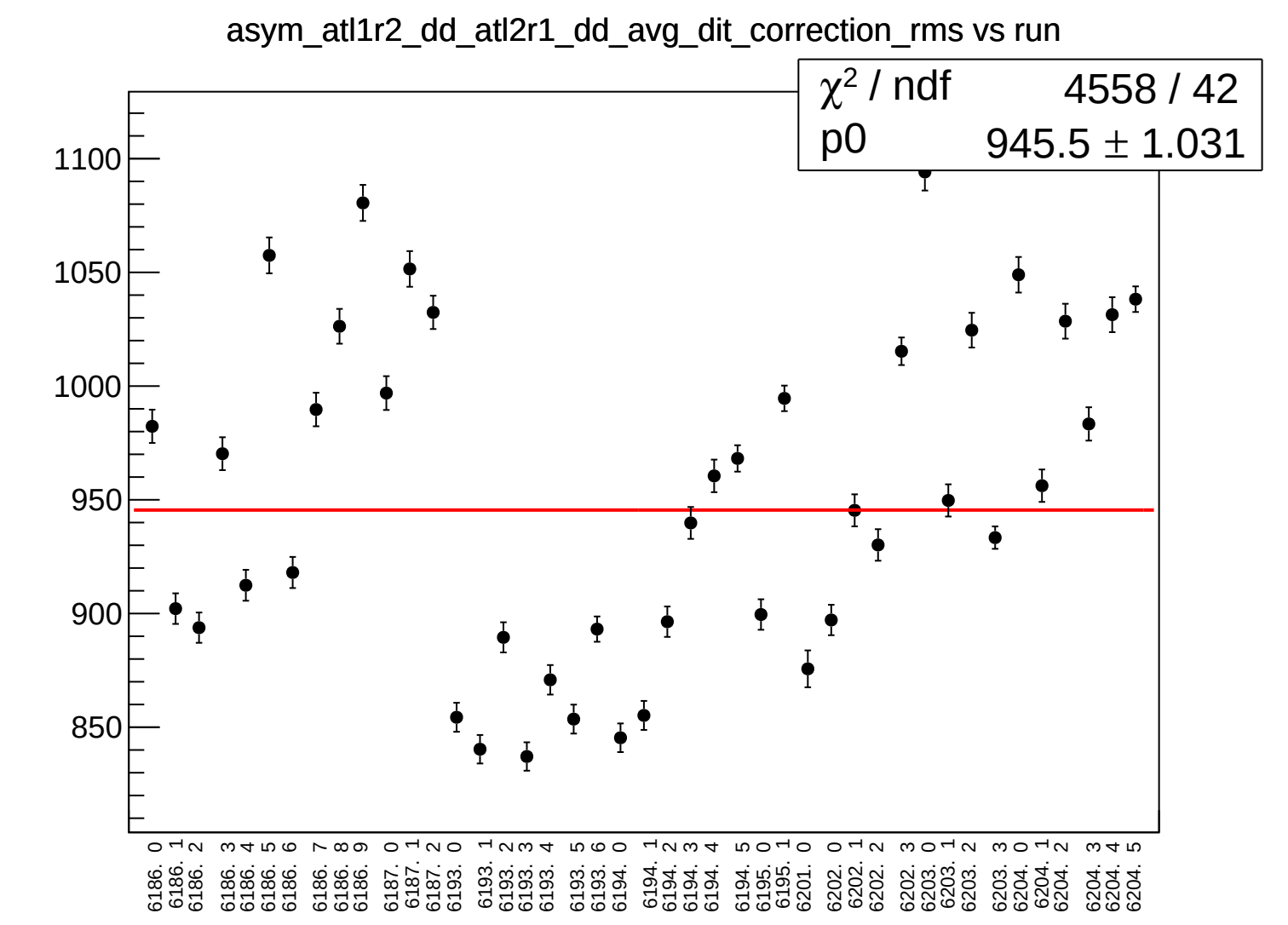

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4732 / 42
p0 917.4 ± 1.001
1100
1050
1000
950
900
850
800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

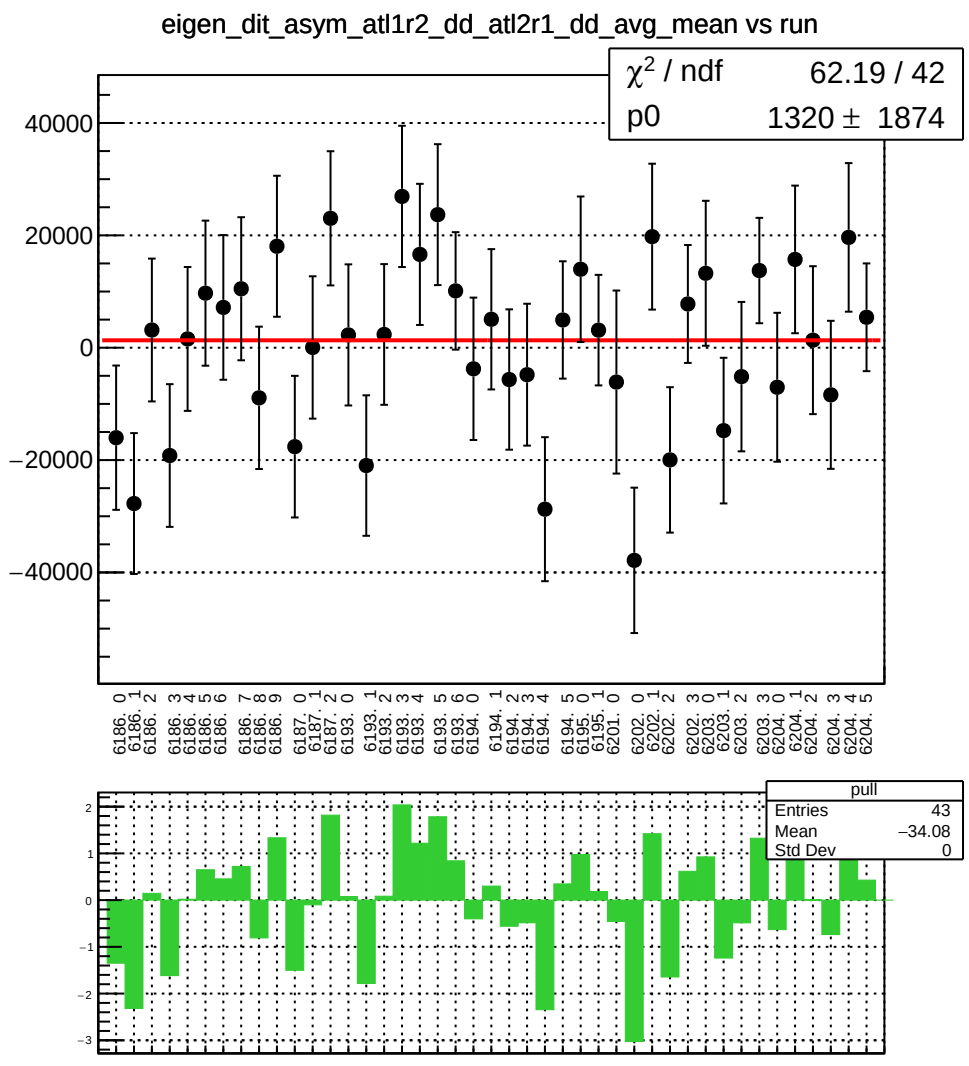

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 62.19 / 42
p0 1320 ± 1874
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −34.08
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.03036
Std Dev 1.202
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

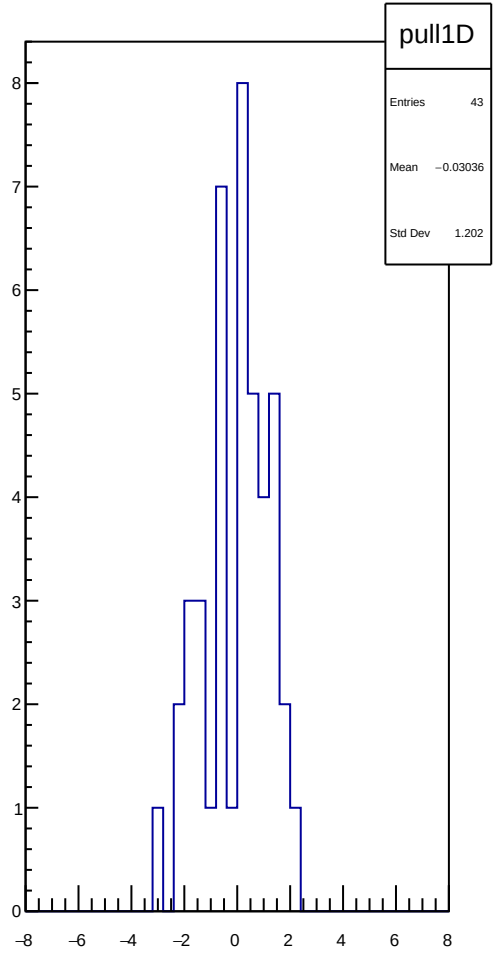

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 333.9 / 42
p0 1218 ± 1.325
1280
1260
1240
1220
1200
1180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

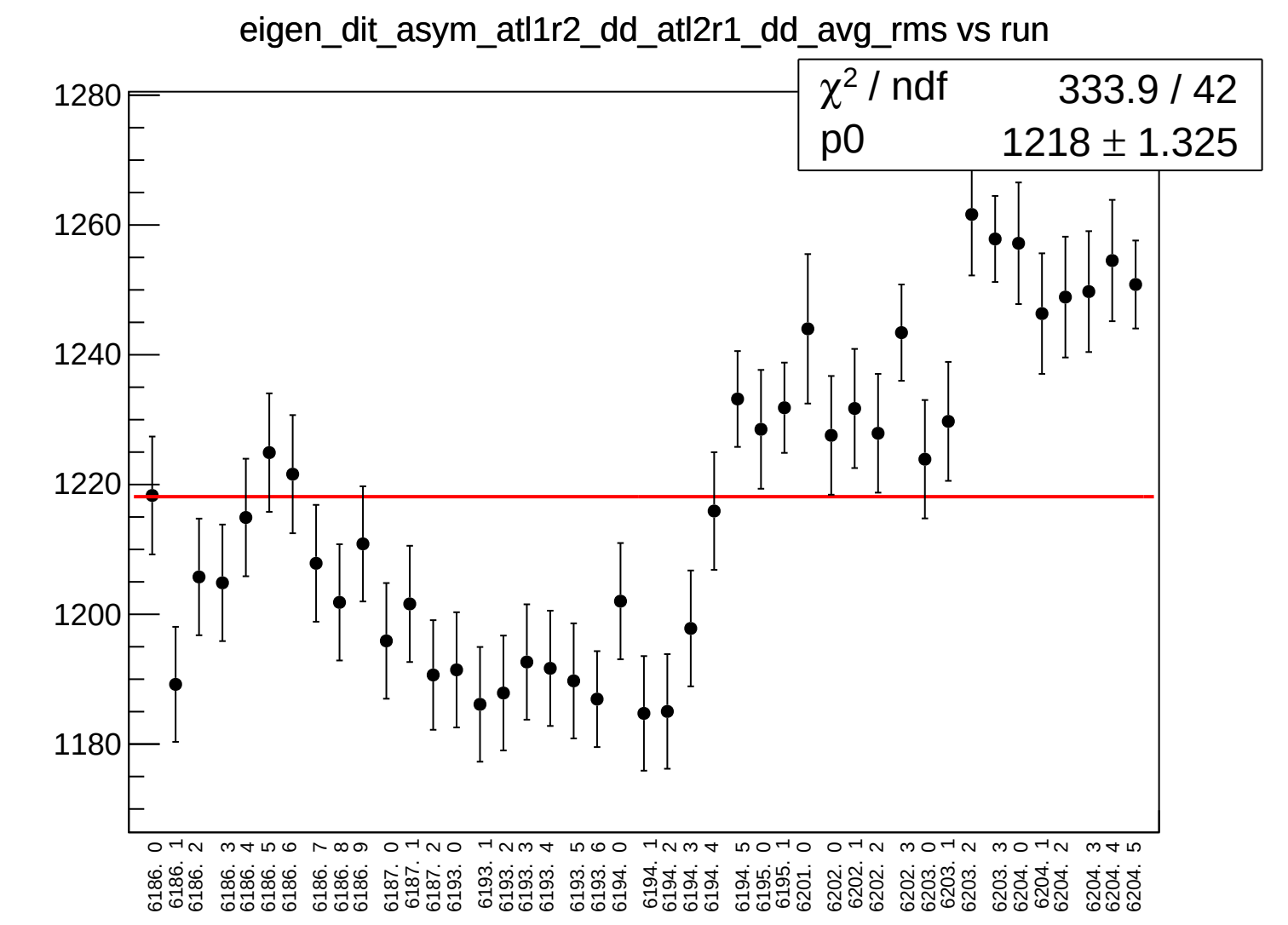

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 55.7 / 42
p0 −1152 ± 1458
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 336
Std Dev 0
3
2
1
0
−1
−2
−3

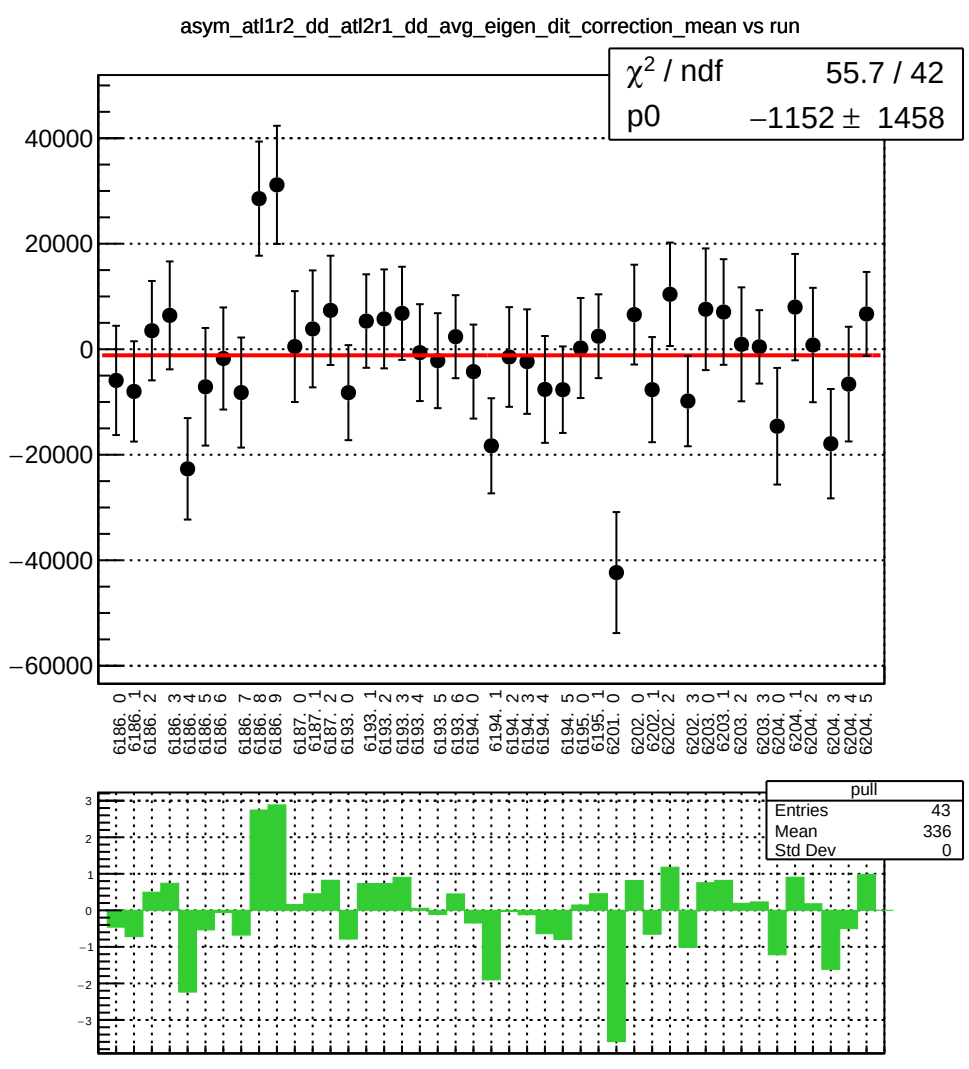

pull1D
Entries 43
Mean −0.004033
Std Dev 1.138
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

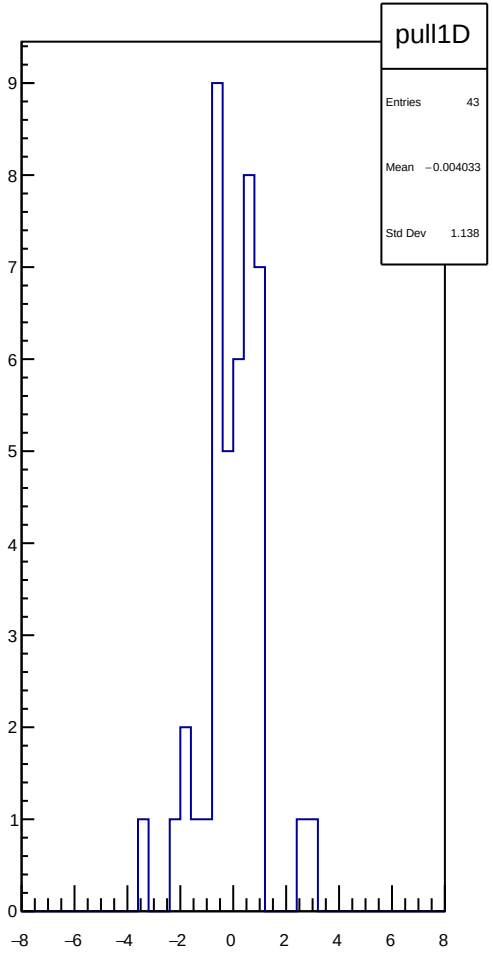

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 4558 / 42
p0 945.5 ± 1.031
1100
1050
1000
950
900
850
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

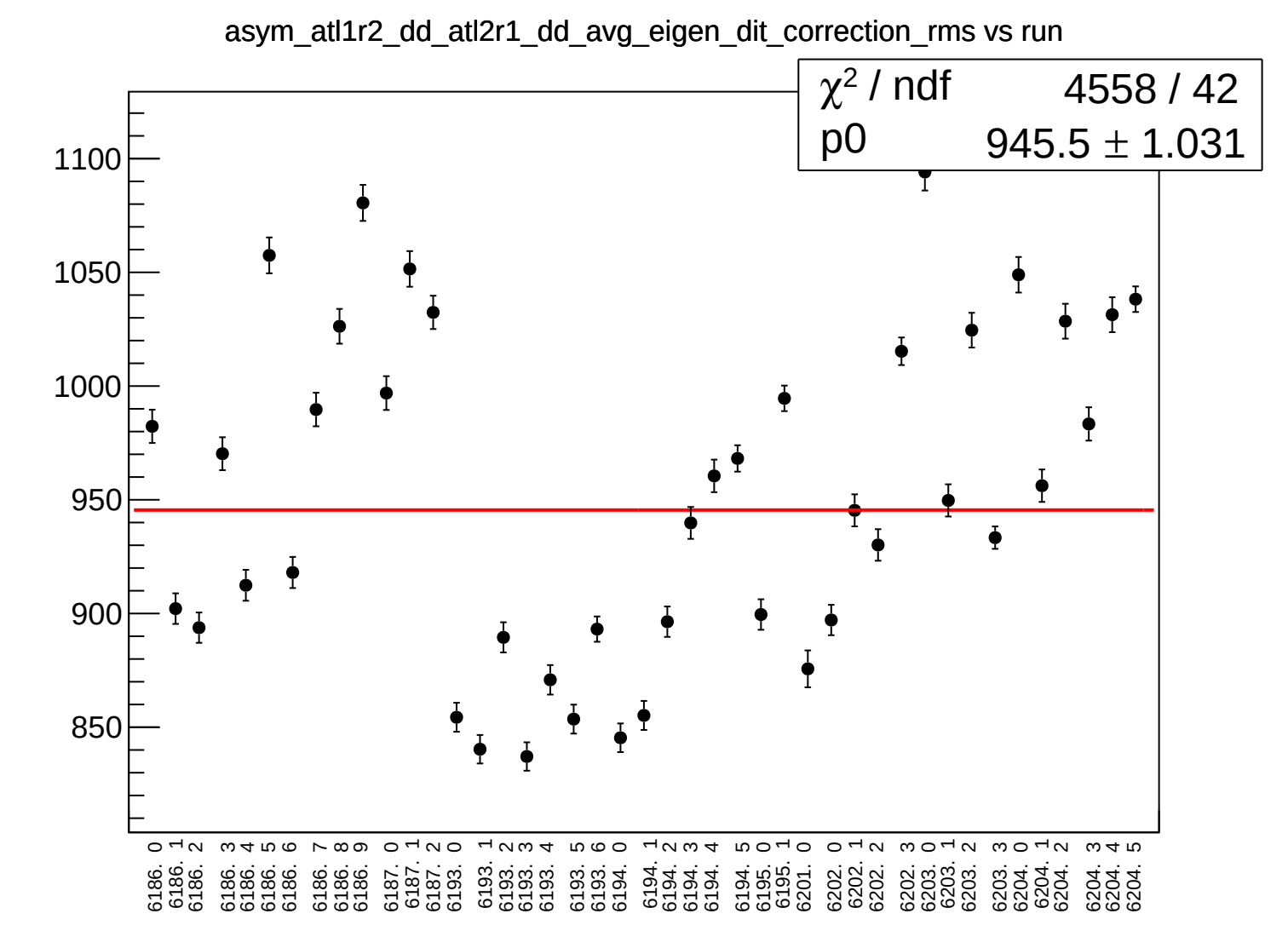

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 62.19 / 42
p0 1320 ± 1874
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −34.08
Std Dev 0
2
1
0
−1
−2
−3

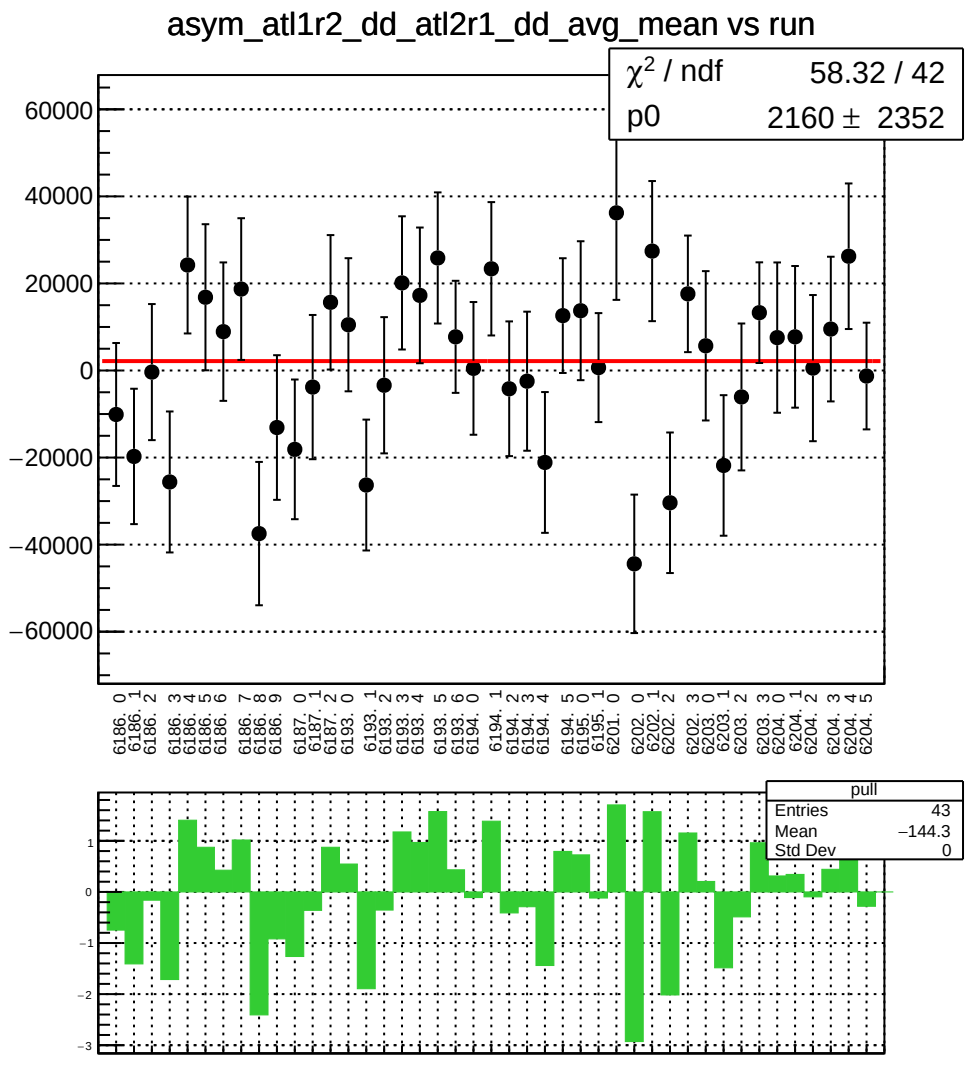

pull1D
Entries 43
Mean −0.03036
Std Dev 1.202
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

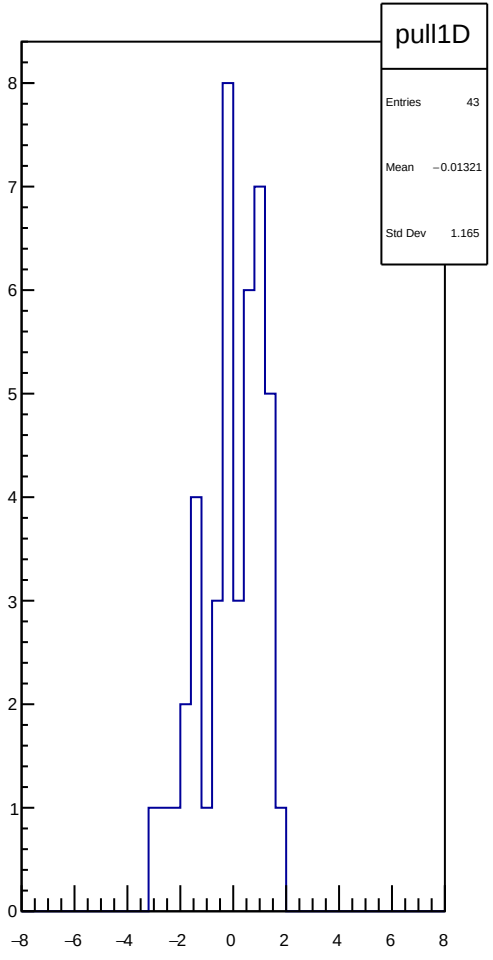

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 333.9 / 42
p0 1218 ± 1.325
1280
1260
1240
1220
1200
1180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

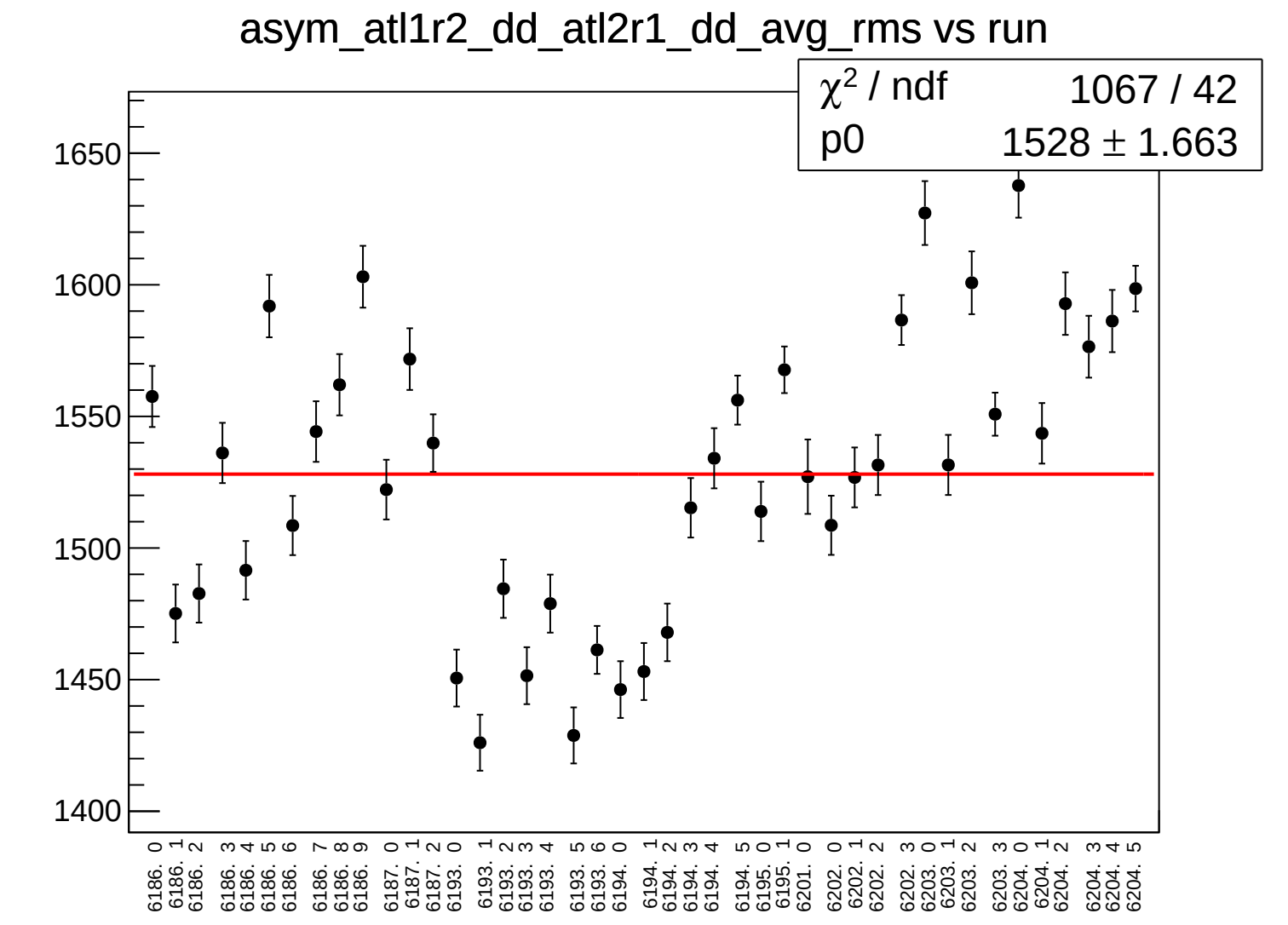

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 55.7 / 42
p0 −1152 ± 1458
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 336
Std Dev 0
3
2
1
0
−1
−2
−3

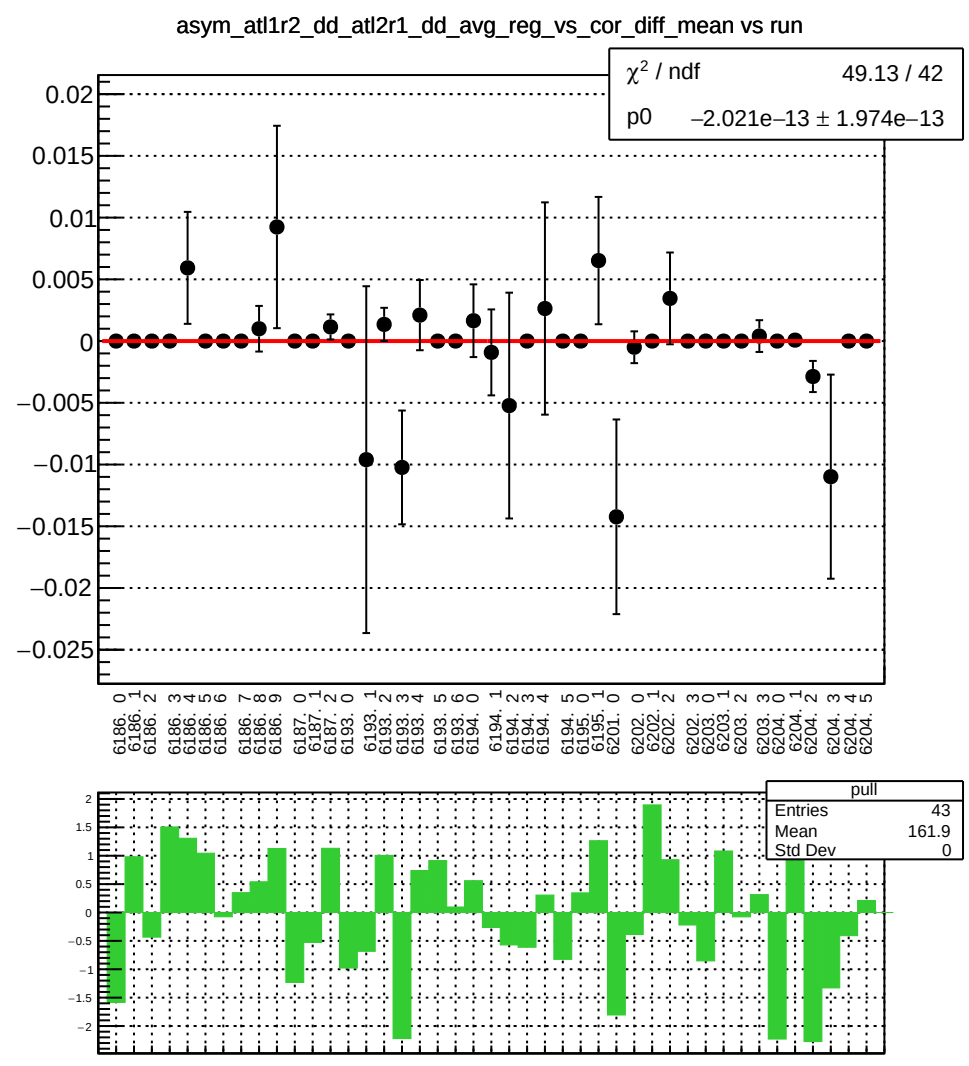

pull1D
Entries 43
Mean −0.004033
Std Dev 1.138
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

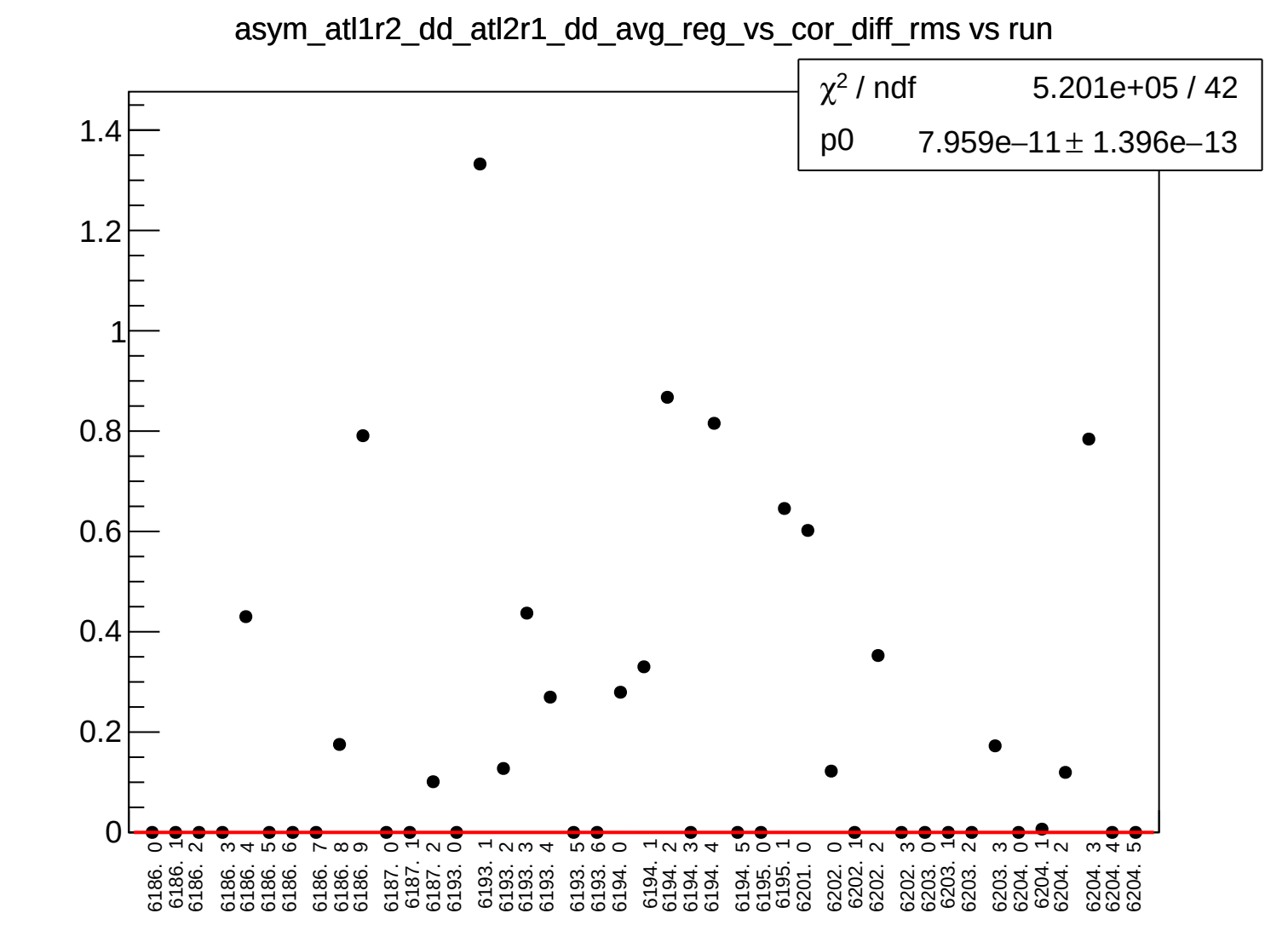

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4558 / 42
p0 945.5 ± 1.031
1100
1050
1000
950
900
850
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

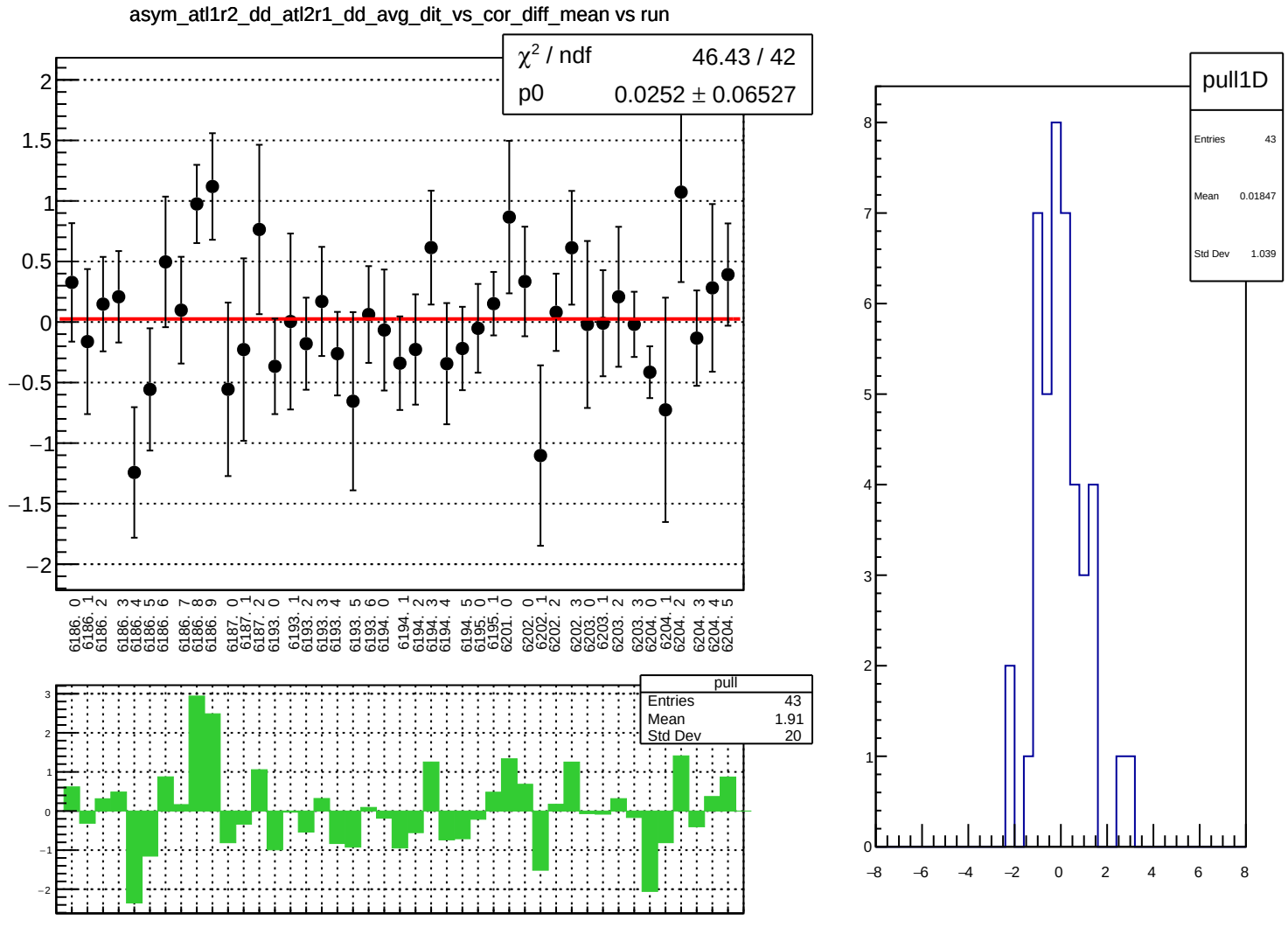

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 58.32 / 42
p0 2160 ± 2352
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −144.3
Std Dev 0
1
0
−1
−2
−3

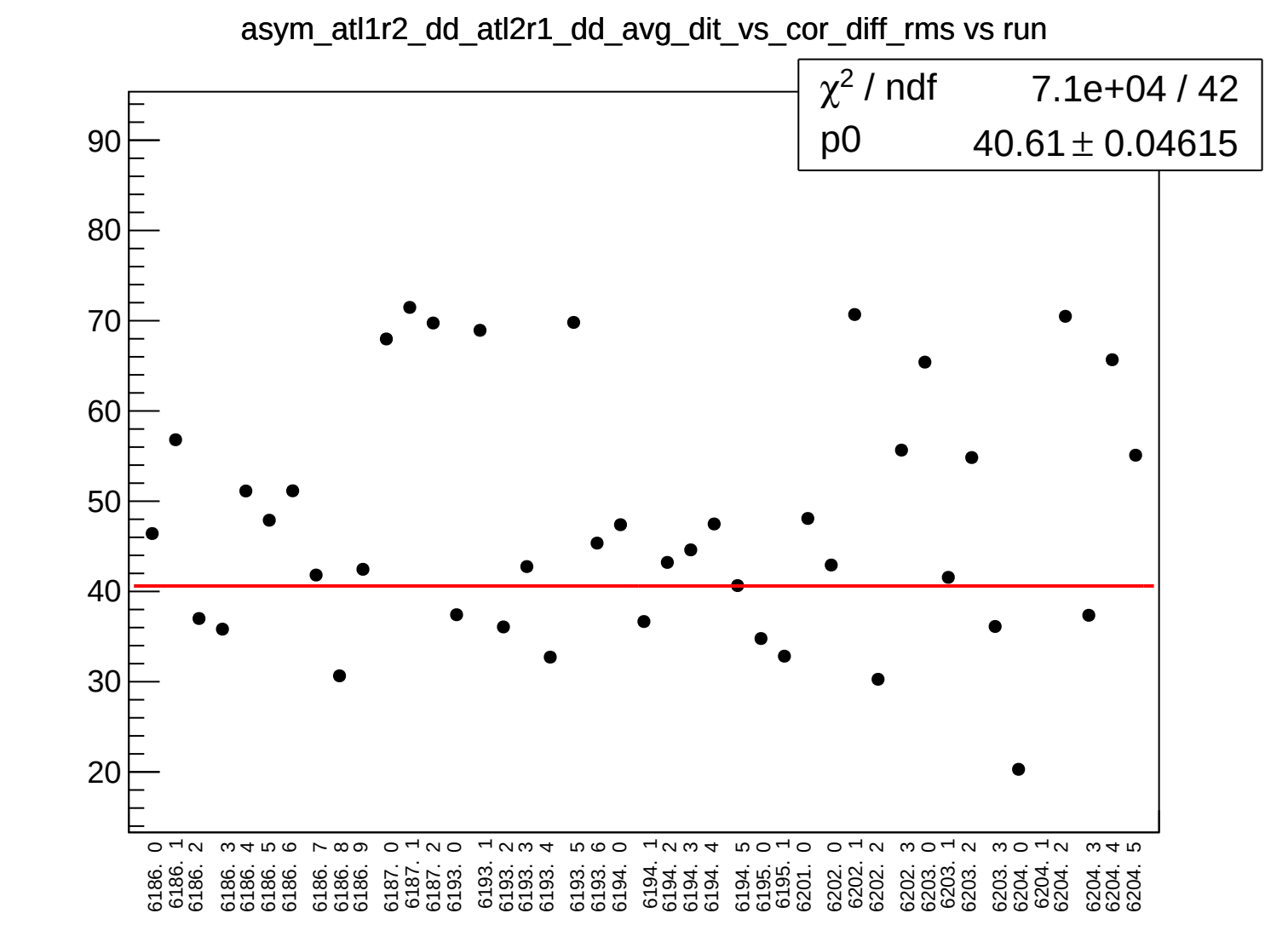

pull1D
Entries 43
Mean −0.01321
Std Dev 1.165
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1067 / 42
p0 1528 ± 1.663
1650
1600
1550
1500
1450
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 49.13 / 42
p0 −2.021e−13 ± 1.974e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 161.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01894
Std Dev 1.069
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.201e+05 / 42
p0 7.959e−11 ± 1.396e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 46.43 / 42
p0 0.0252 ± 0.06527
pull
Entries 43
Mean 1.91
Std Dev 20
pull1D
Entries 43
Mean 0.01847
Std Dev 1.039


asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.1e+04 / 42
p0 40.61 ± 0.04615
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
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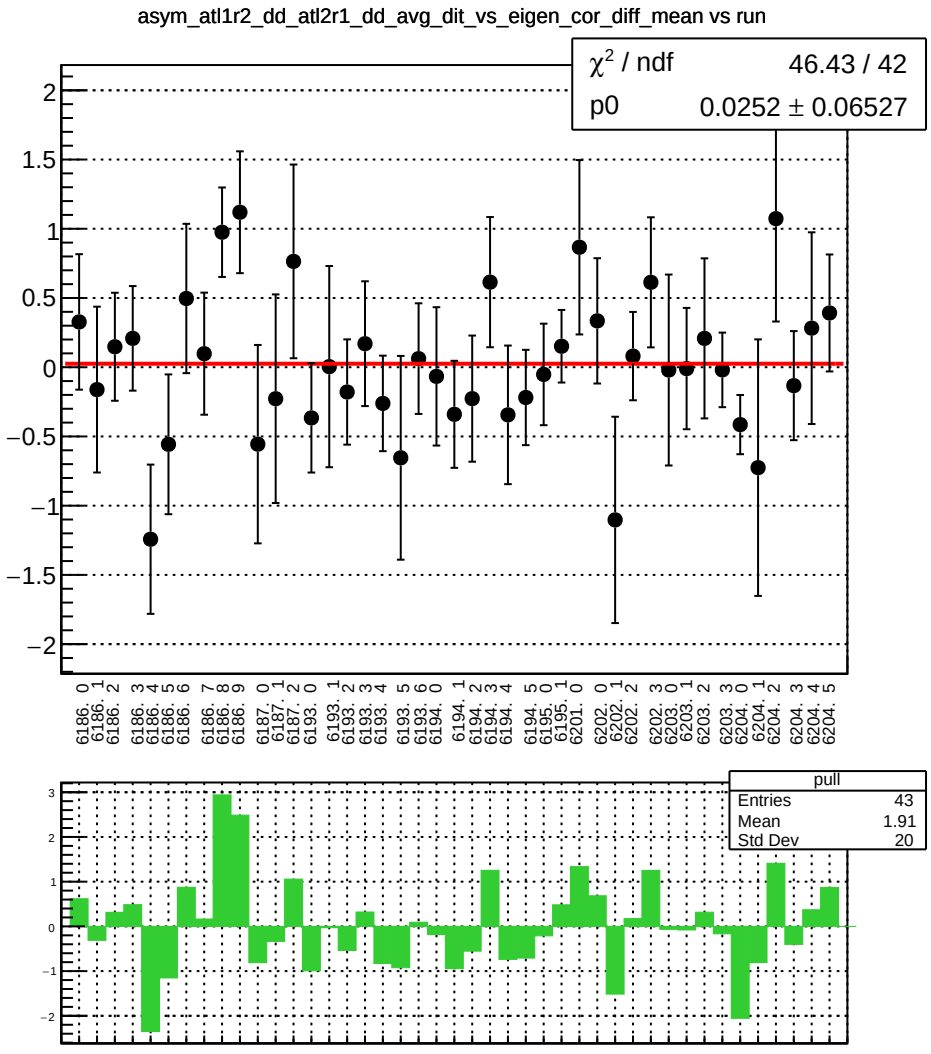
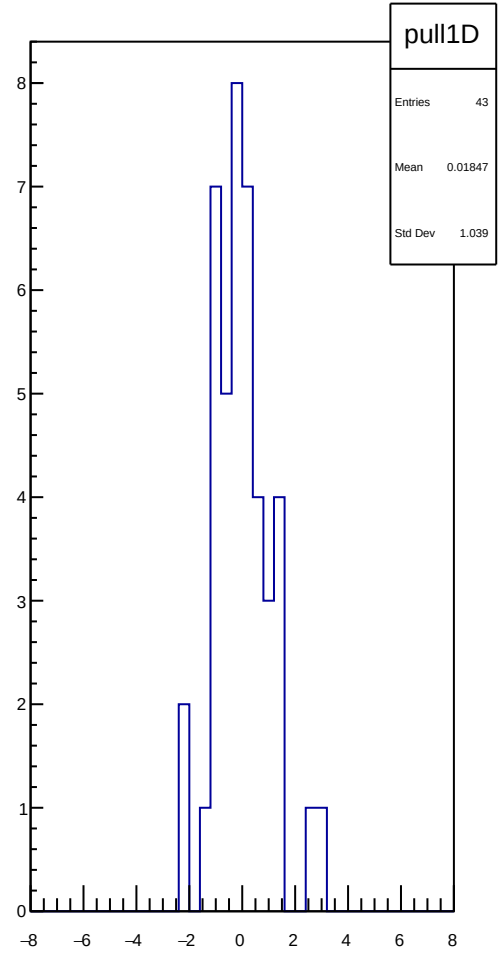
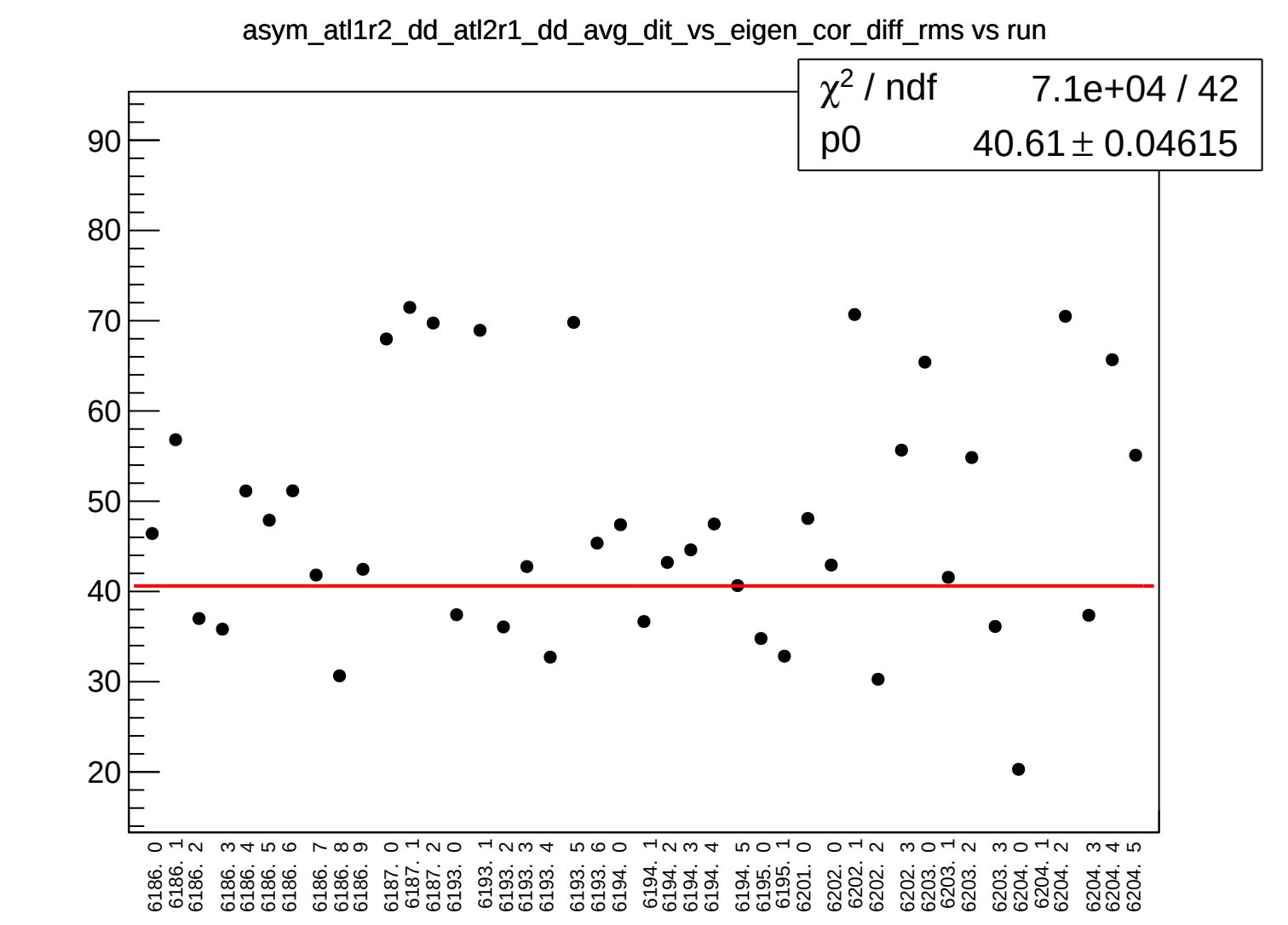
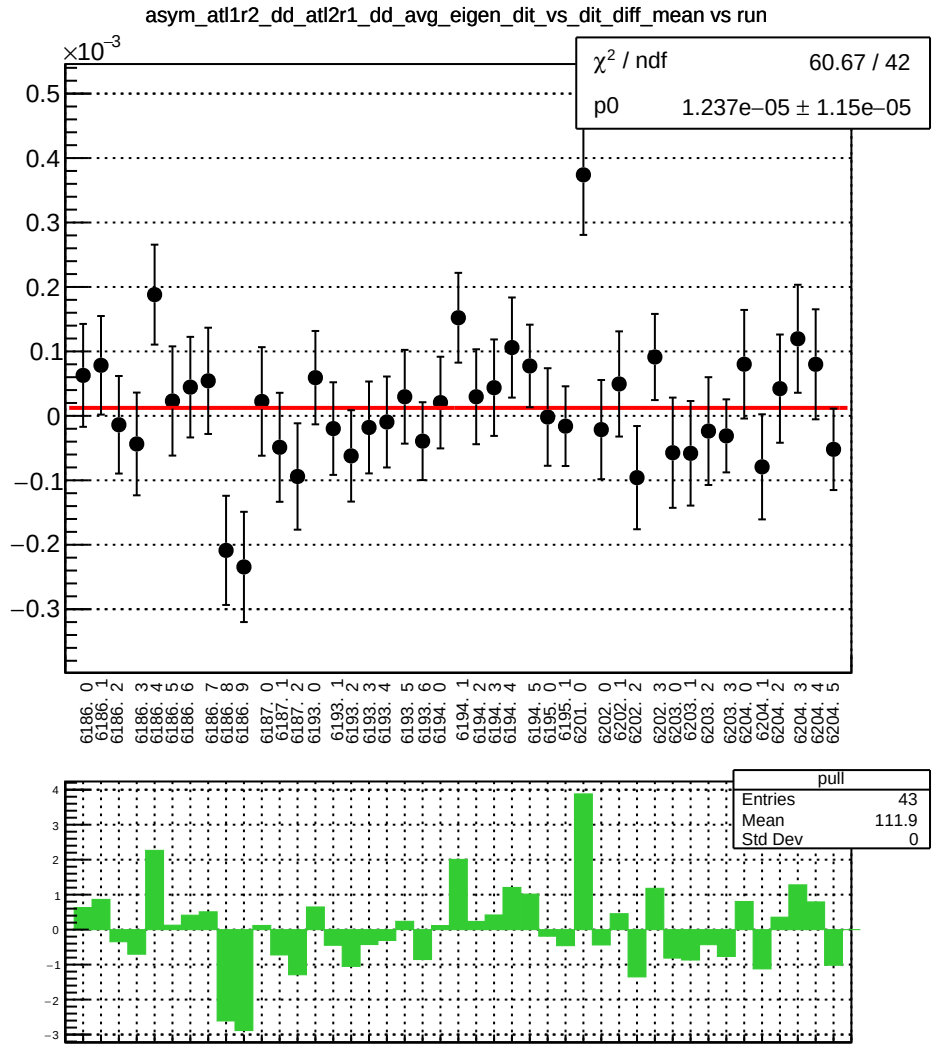
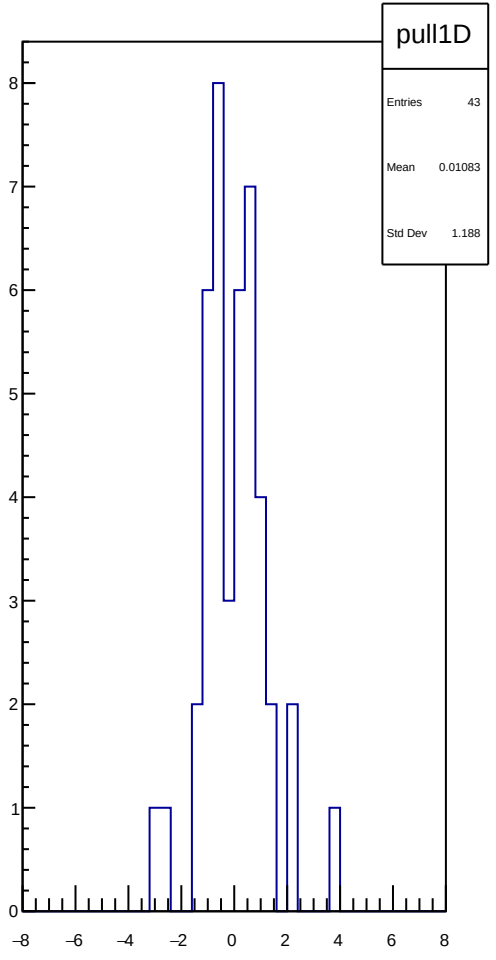
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

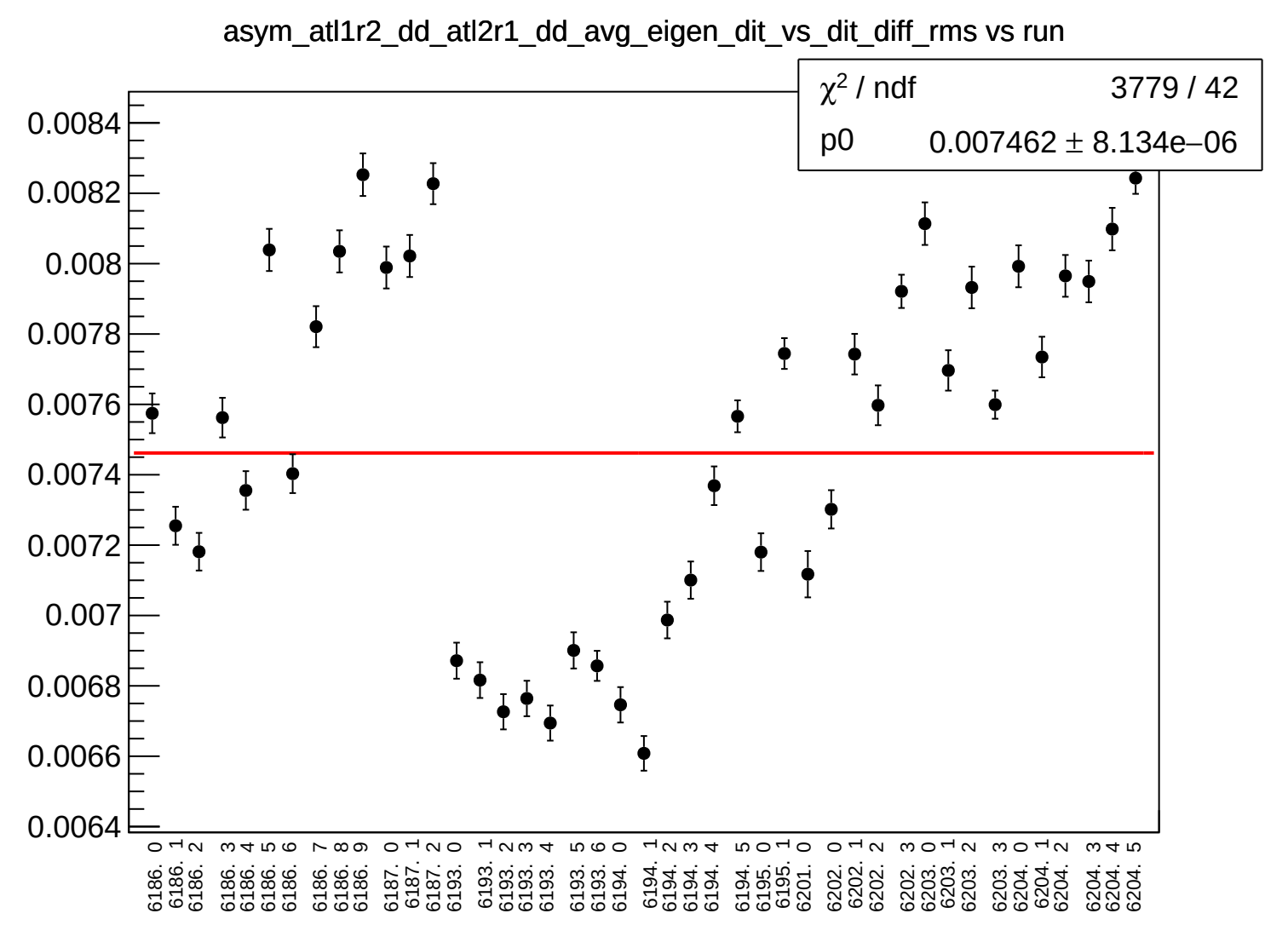

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.43 / 42
p0 0.0252 ± 0.06527
pull
Entries 43
Mean 1.91
Std Dev 20

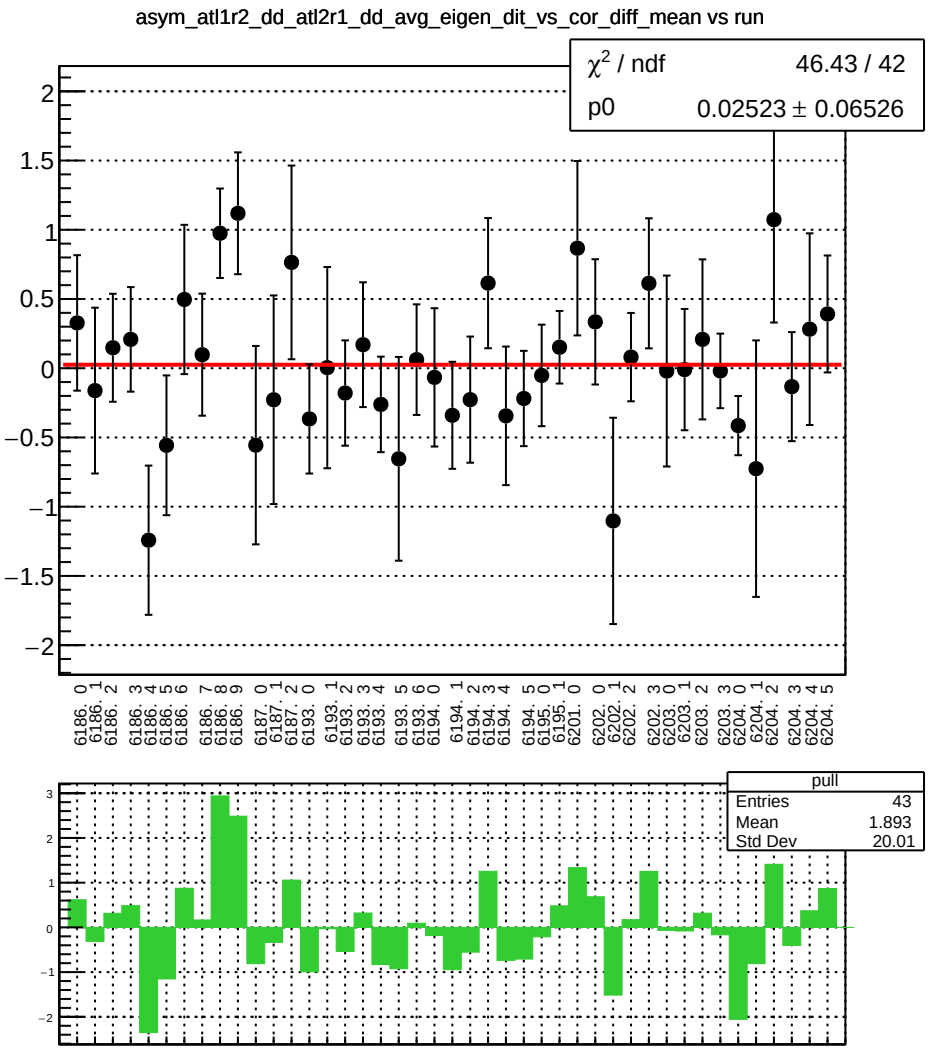

pull1D
Entries 43
Mean 0.01847
Std Dev 1.039

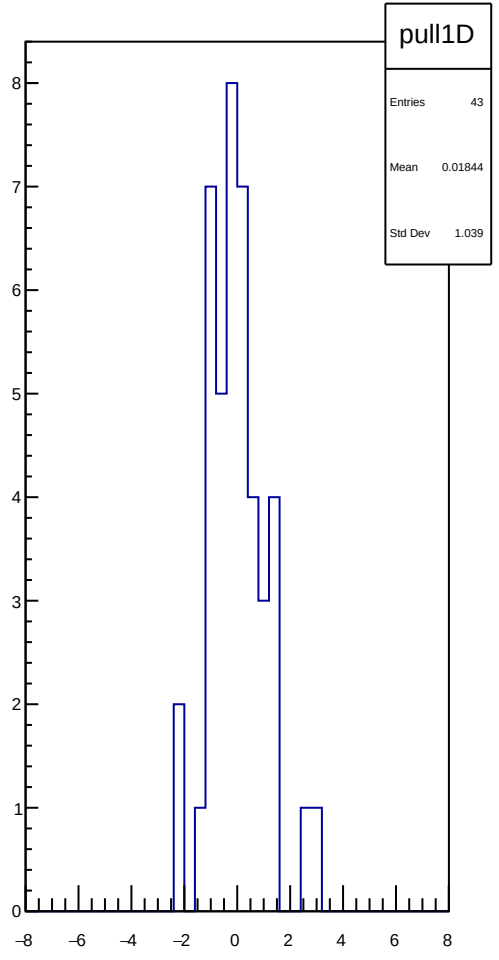

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.1e+04 / 42
p0 40.61 ± 0.04615
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

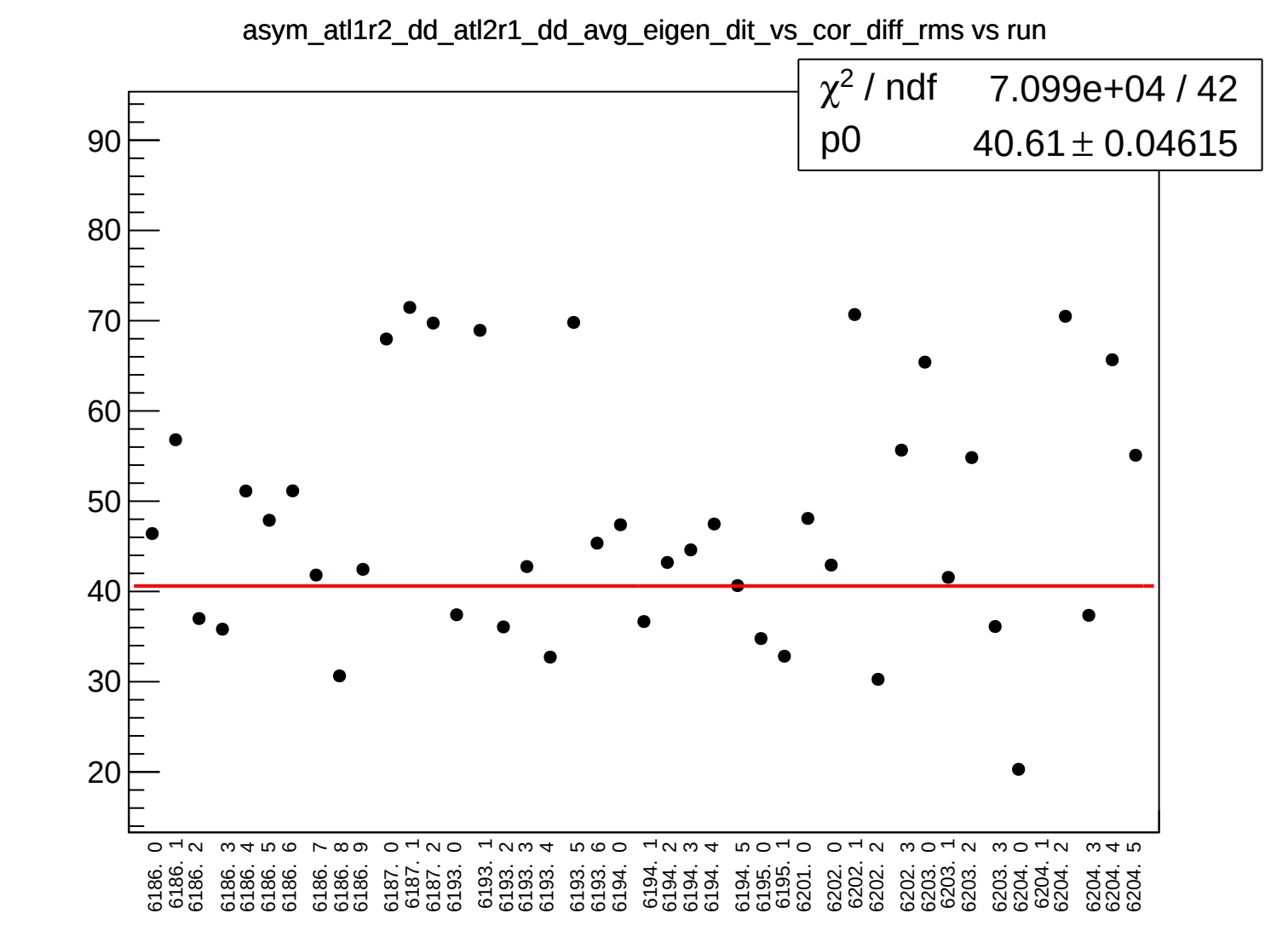

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 60.67 / 42
p0 1.237e−05 ± 1.15e−05
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 111.9
Std Dev 0
4
3
2
1
0
−1
−2
−3

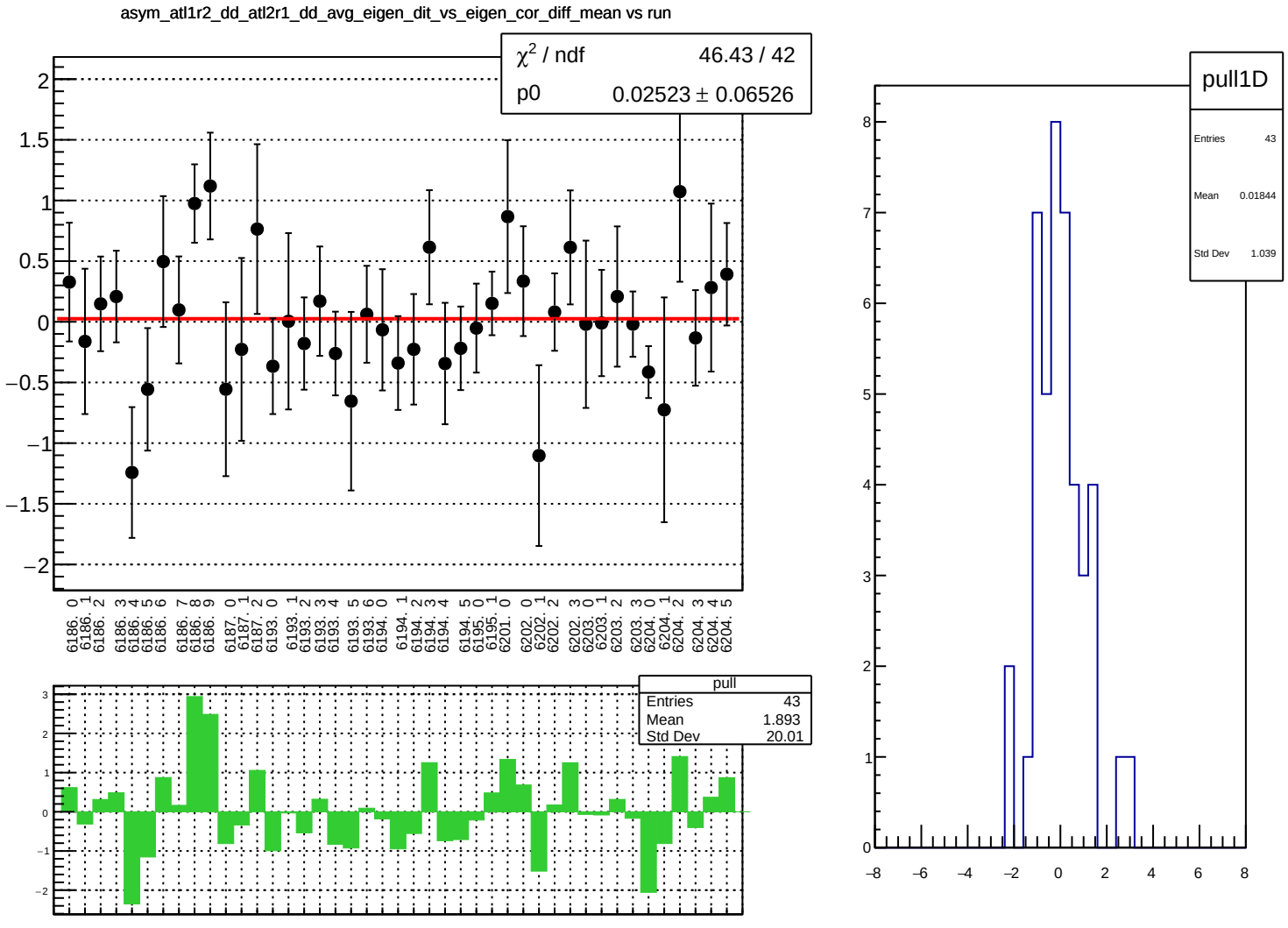

pull1D
Entries 43
Mean 0.01083
Std Dev 1.188
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

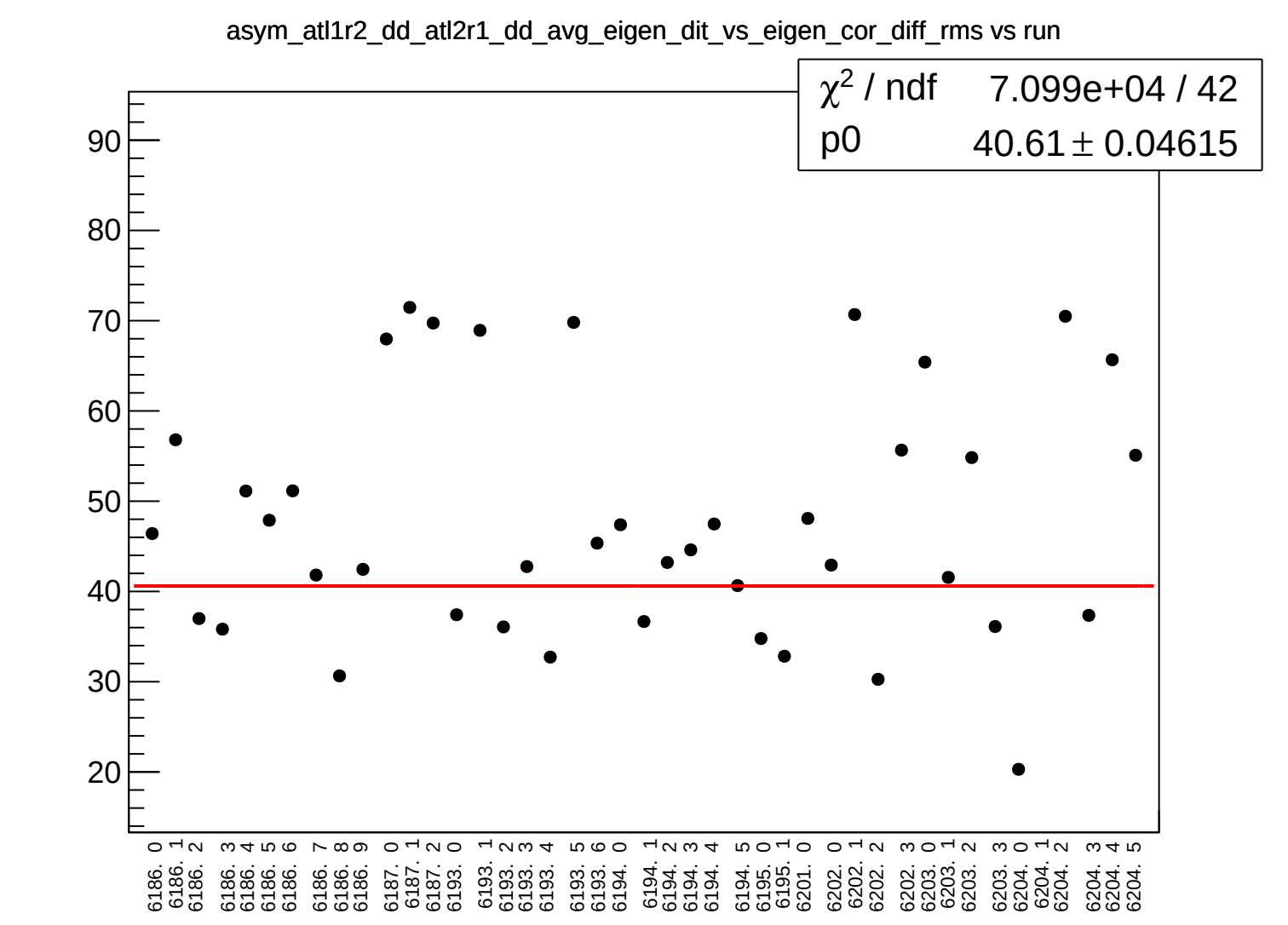

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3779 / 42
p0 0.007462 ± 8.134e−06
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

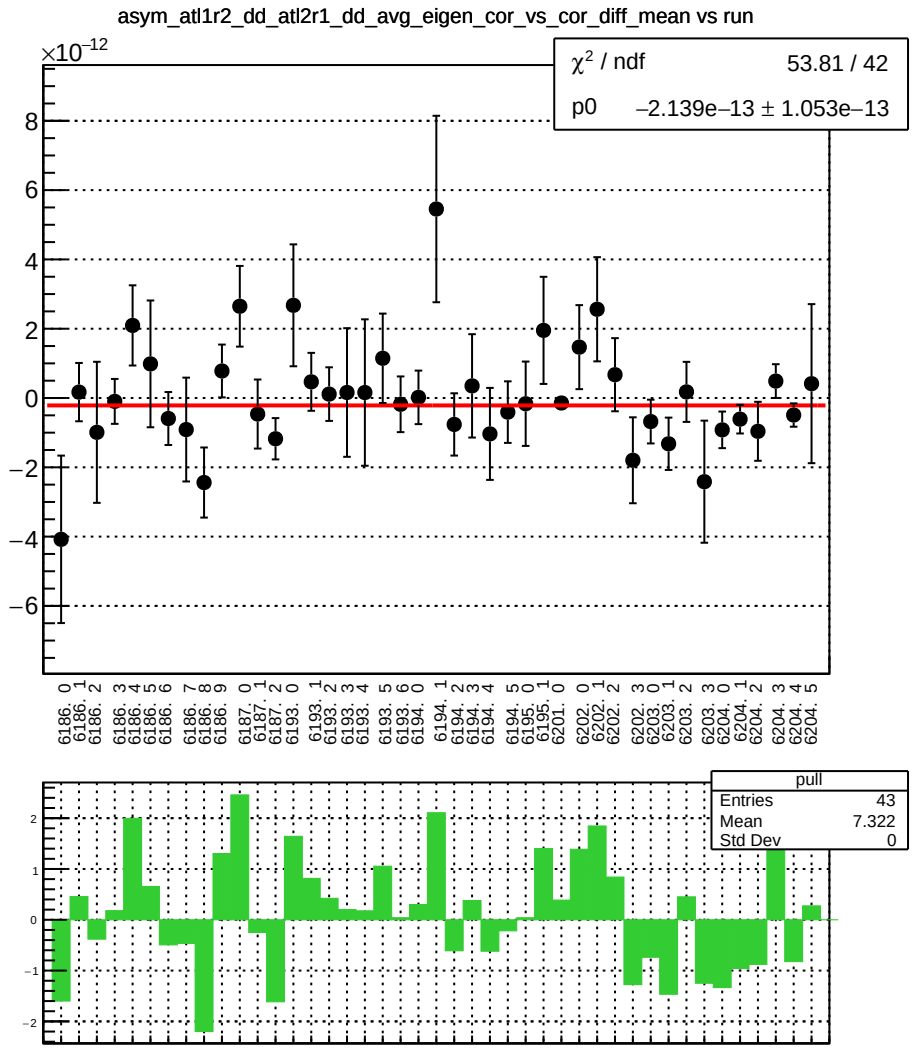

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.43 / 42
p0 0.02523 ± 0.06526
pull
Entries 43
Mean 1.893
Std Dev 20.01

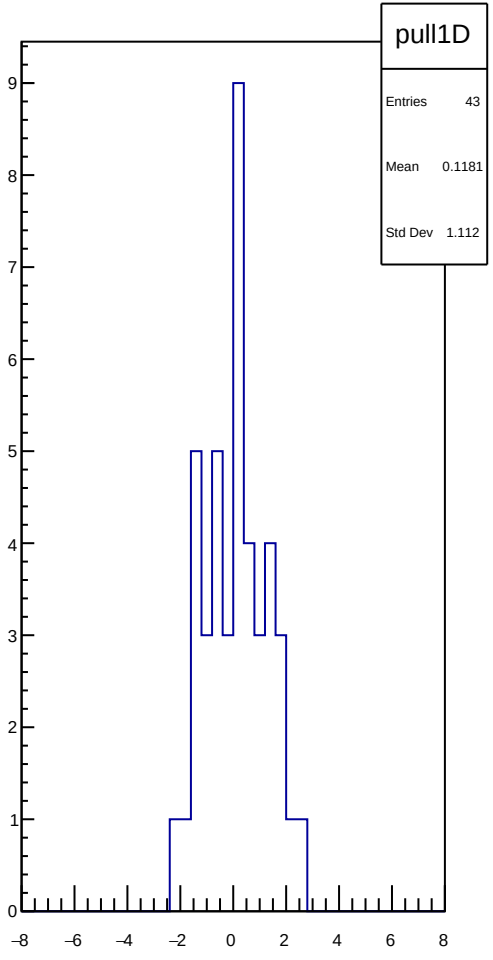

pull1D
Entries 43
Mean 0.01844
Std Dev 1.039

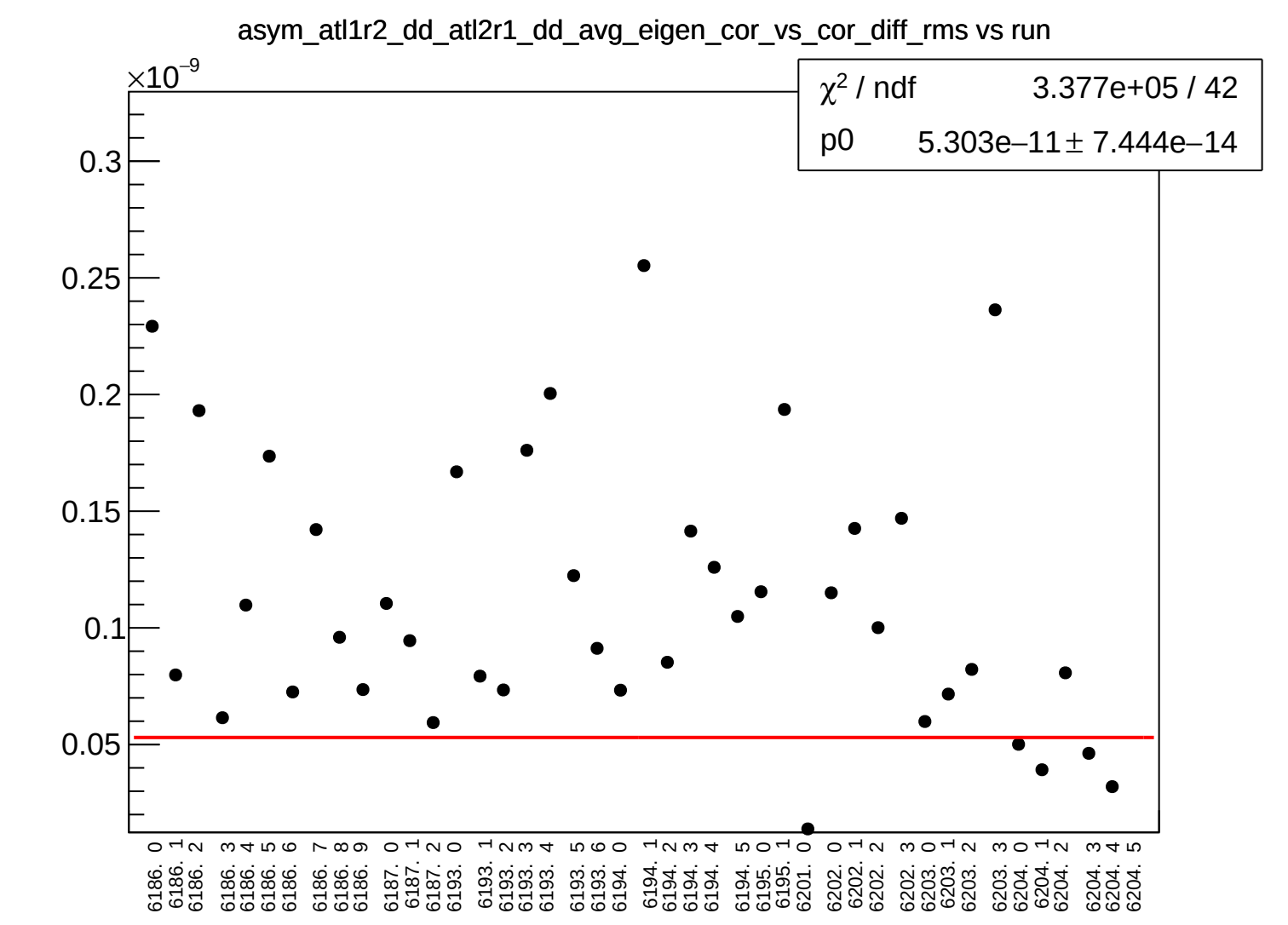

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.099e+04 / 42
p0 40.61 ± 0.04615
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

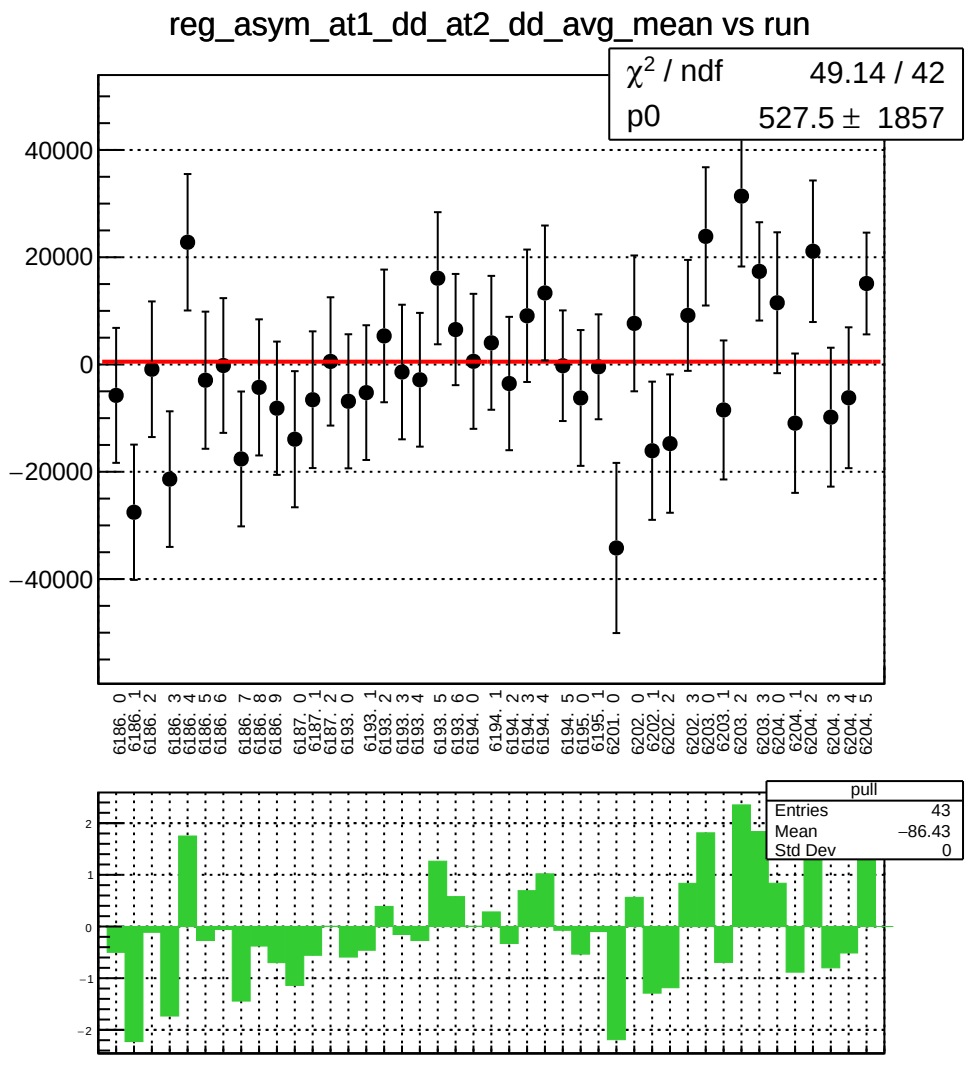

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.43 / 42
p0 0.02523 ± 0.06526
pull
Entries 43
Mean 1.893
Std Dev 20.01
pull1D
Entries 43
Mean 0.01844
Std Dev 1.039

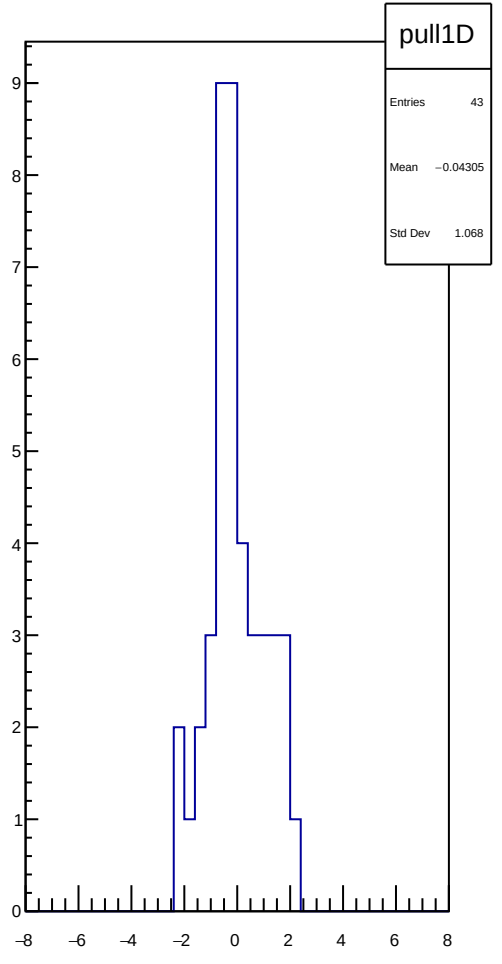

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.099e+04 / 42
p0 40.61 ± 0.04615
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

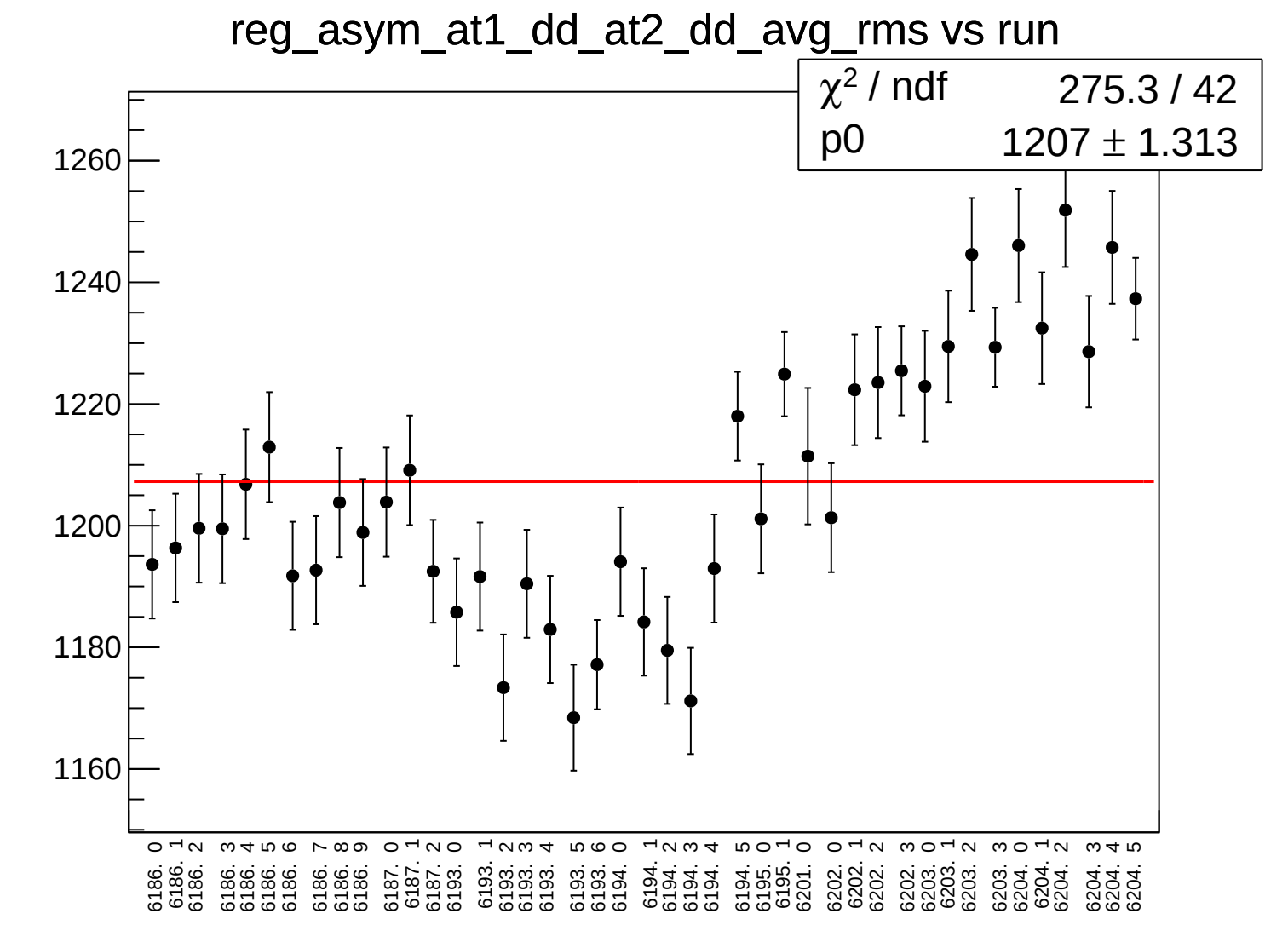

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 53.81 / 42
p0 −2.139e−13 ± 1.053e−13
pull
Entries 43
Mean 7.322
Std Dev 0

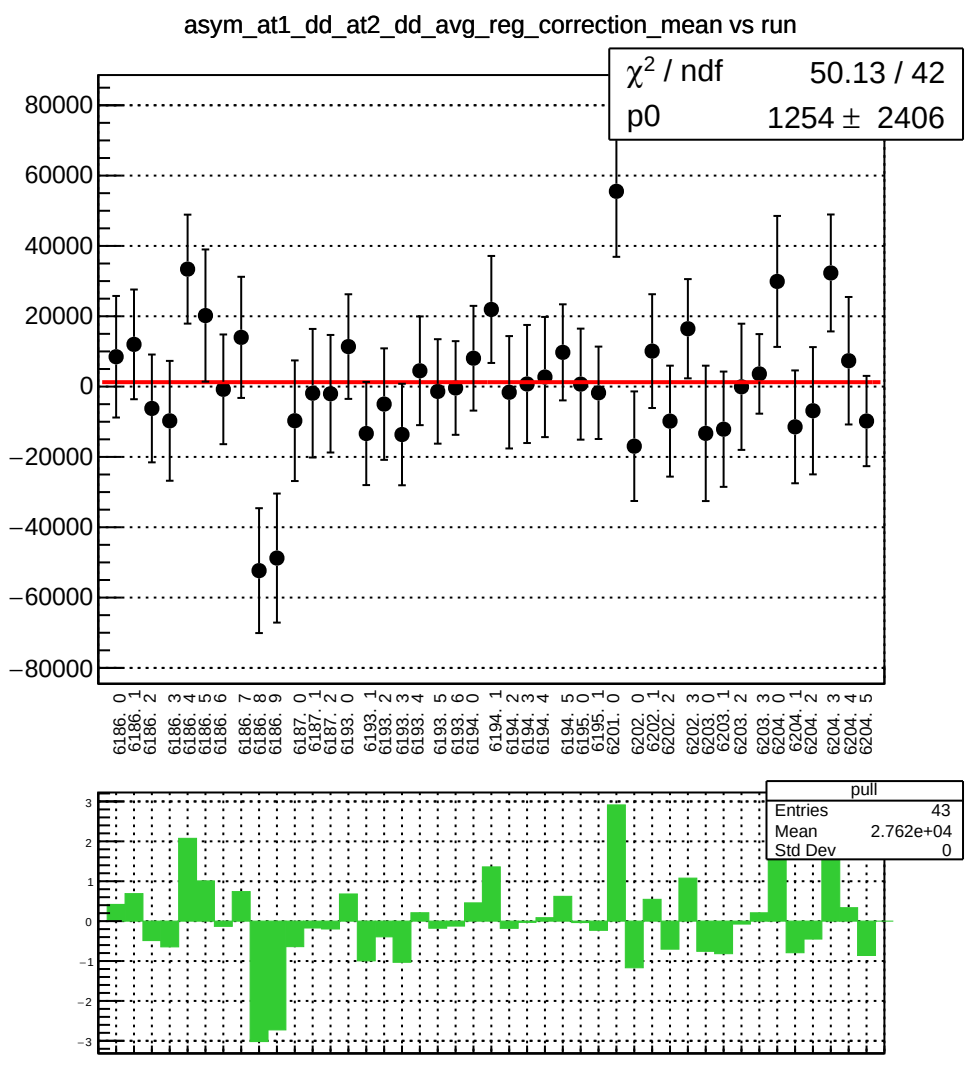

pull1D
Entries 43
Mean 0.1181
Std Dev 1.112

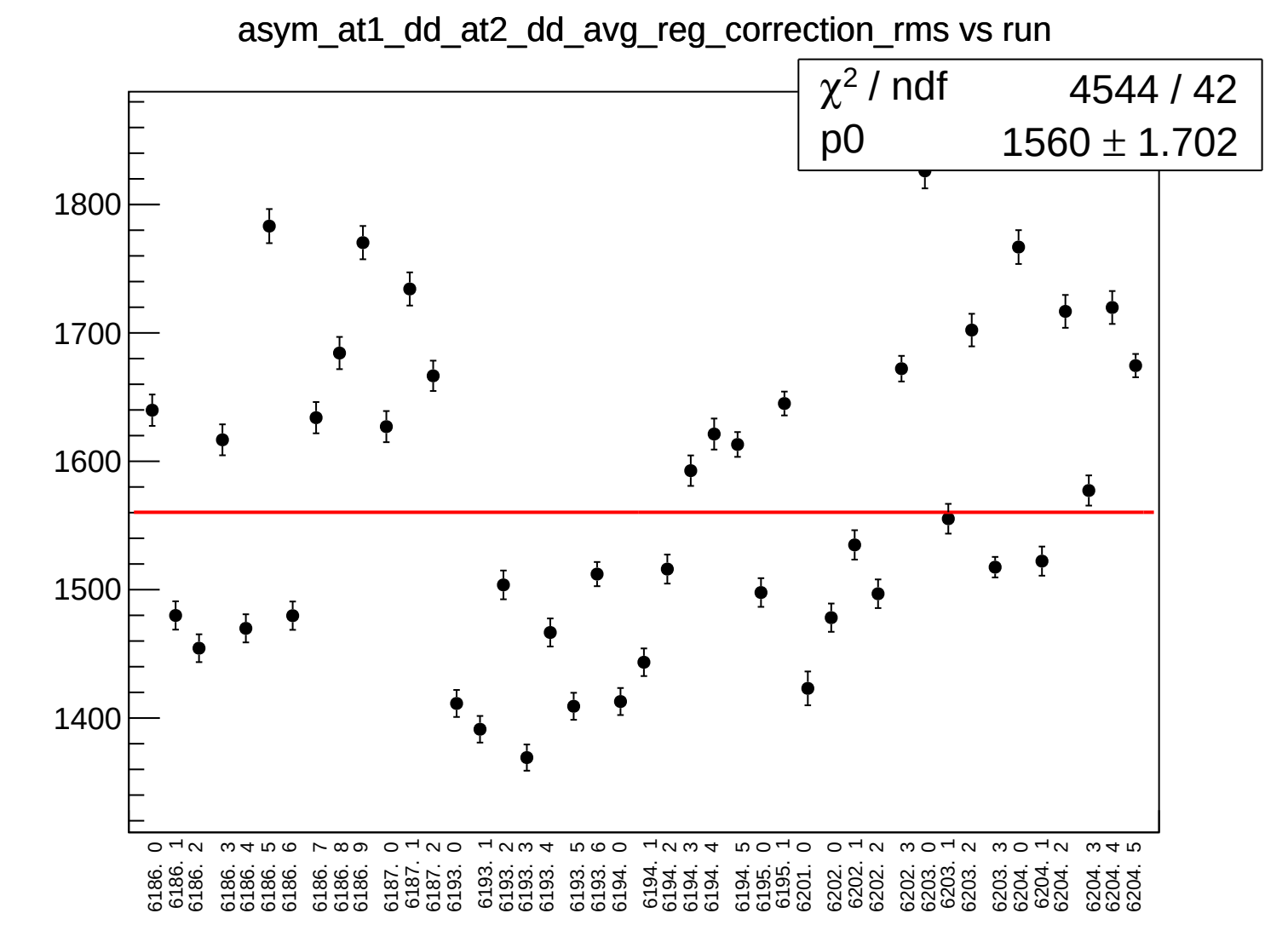

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.377e+05 / 42
p0 5.303e−11 ± 7.444e−14
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

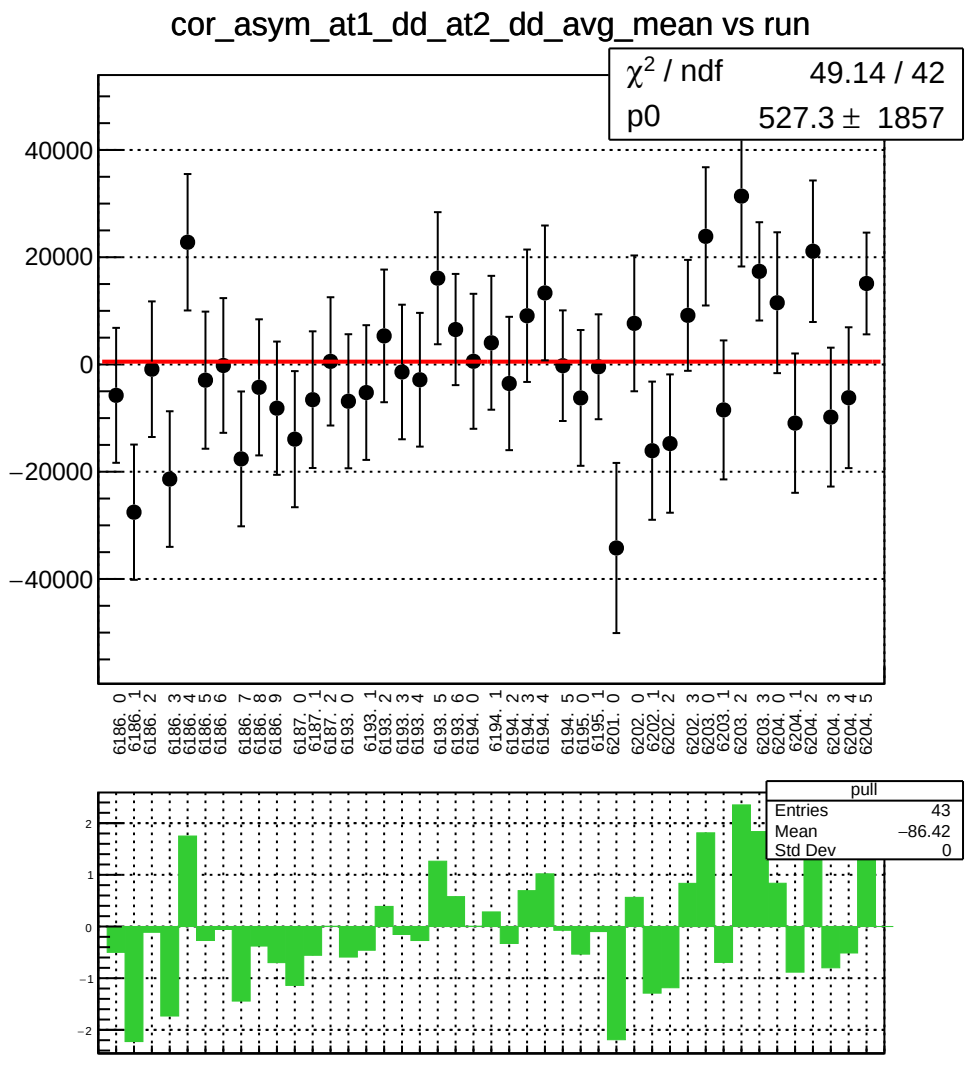

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 49.14 / 42
p0 527.5 ± 1857
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −86.43
Std Dev 0
2
1
0
−1
−2

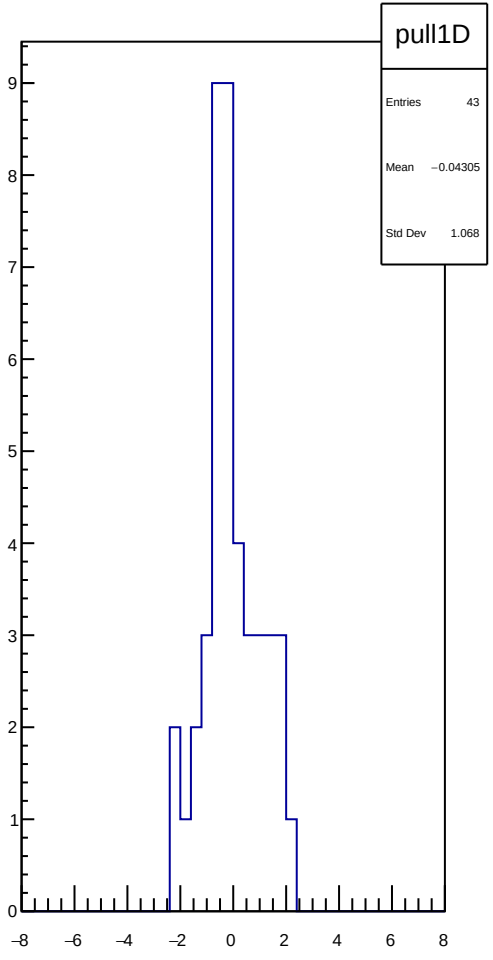

pull1D
Entries 43
Mean −0.04305
Std Dev 1.068
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

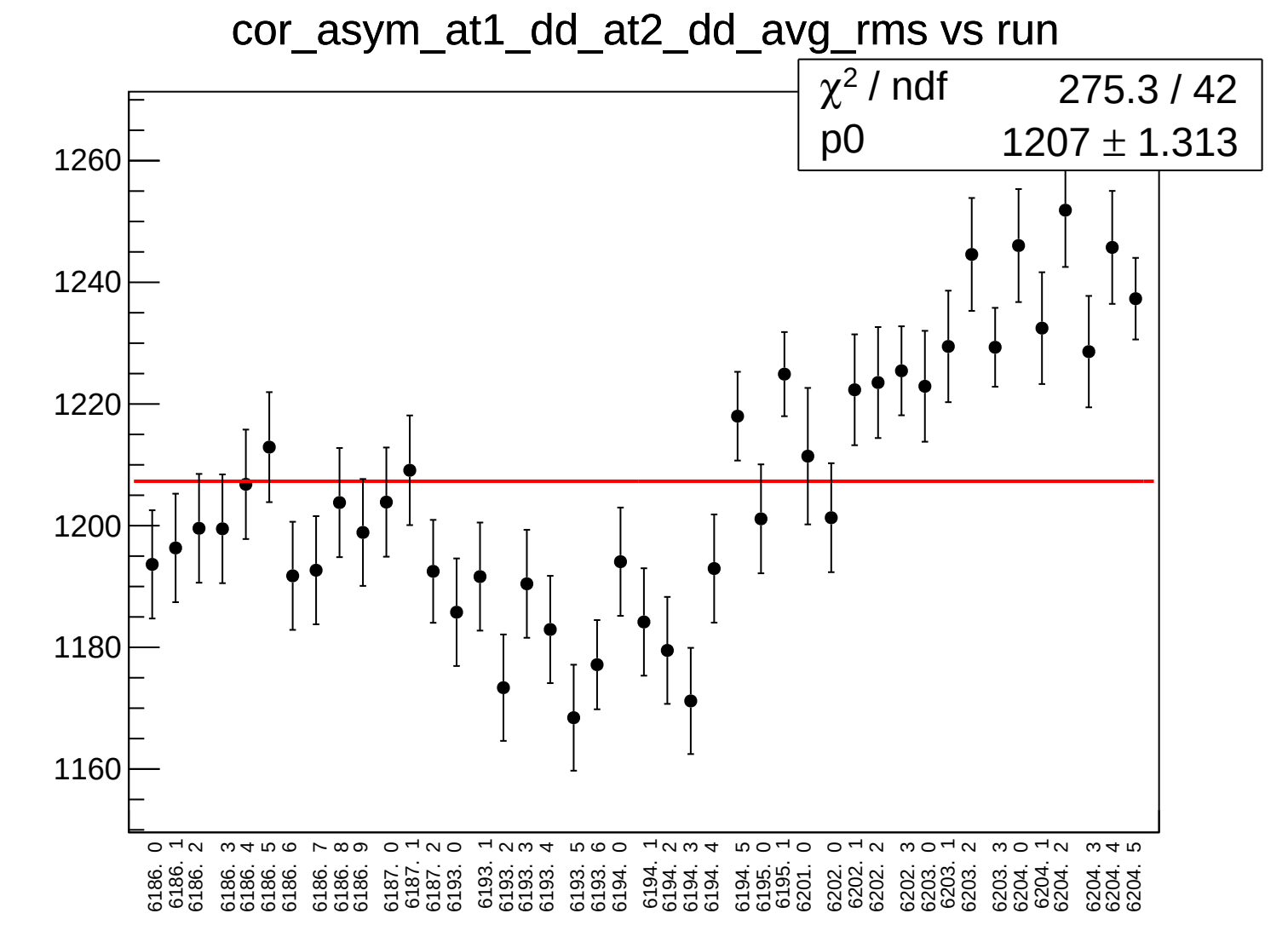

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 275.3 / 42
p0 1207 ± 1.313
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

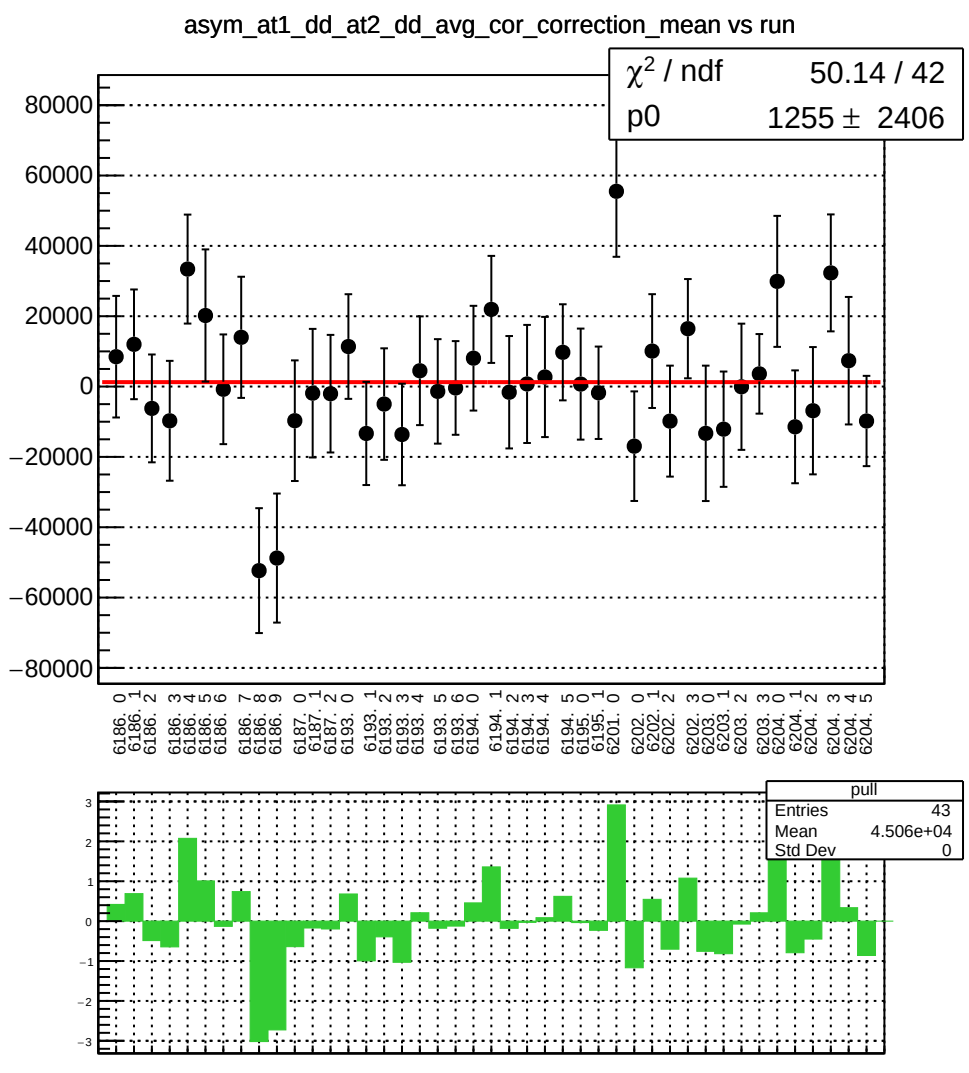

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 50.13 / 42
p0 1254 ± 2406
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2.762e+04
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 5.128e−05
Std Dev 1.08
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

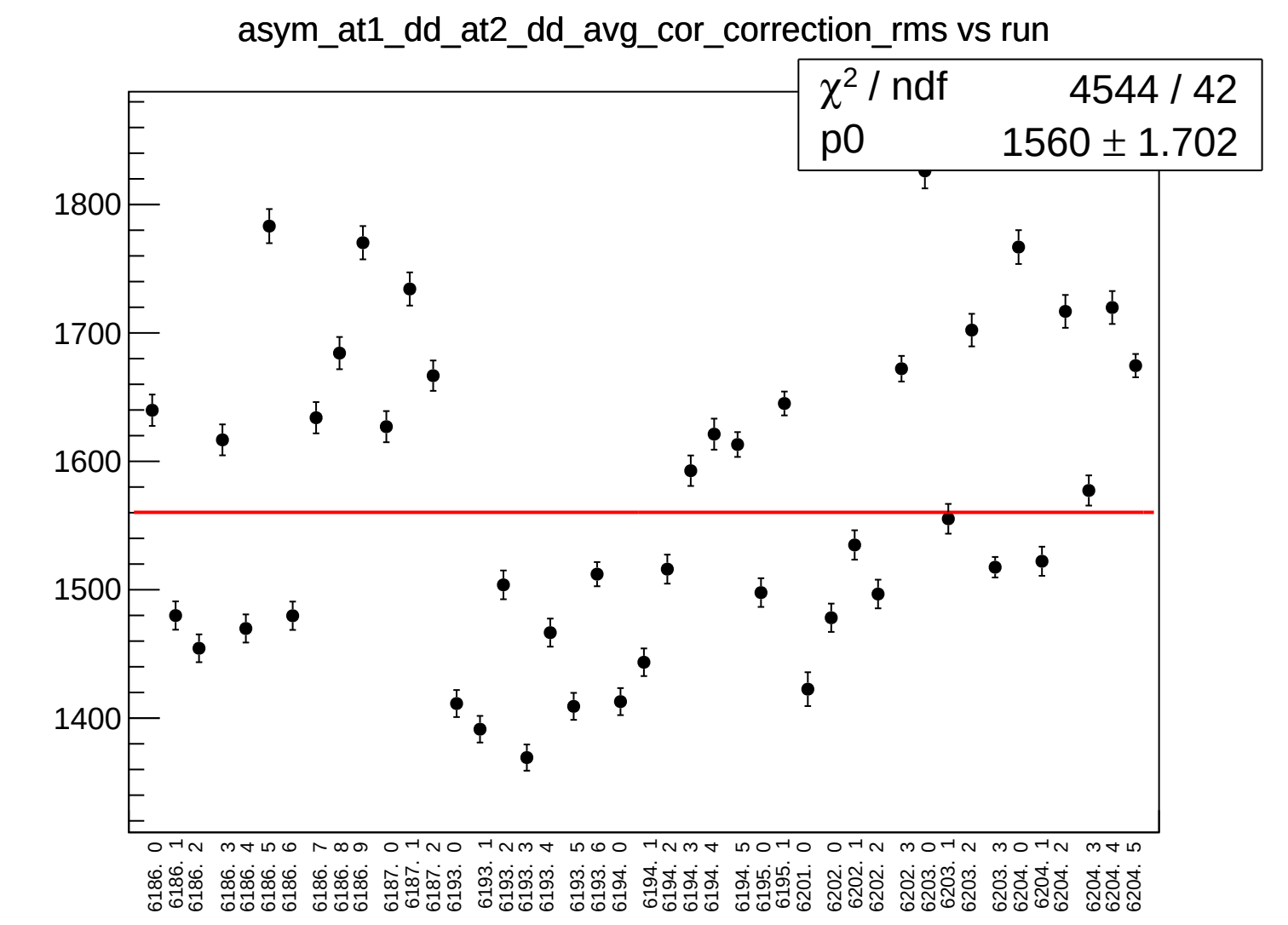

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 4544 / 42
p0 1560 ± 1.702
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

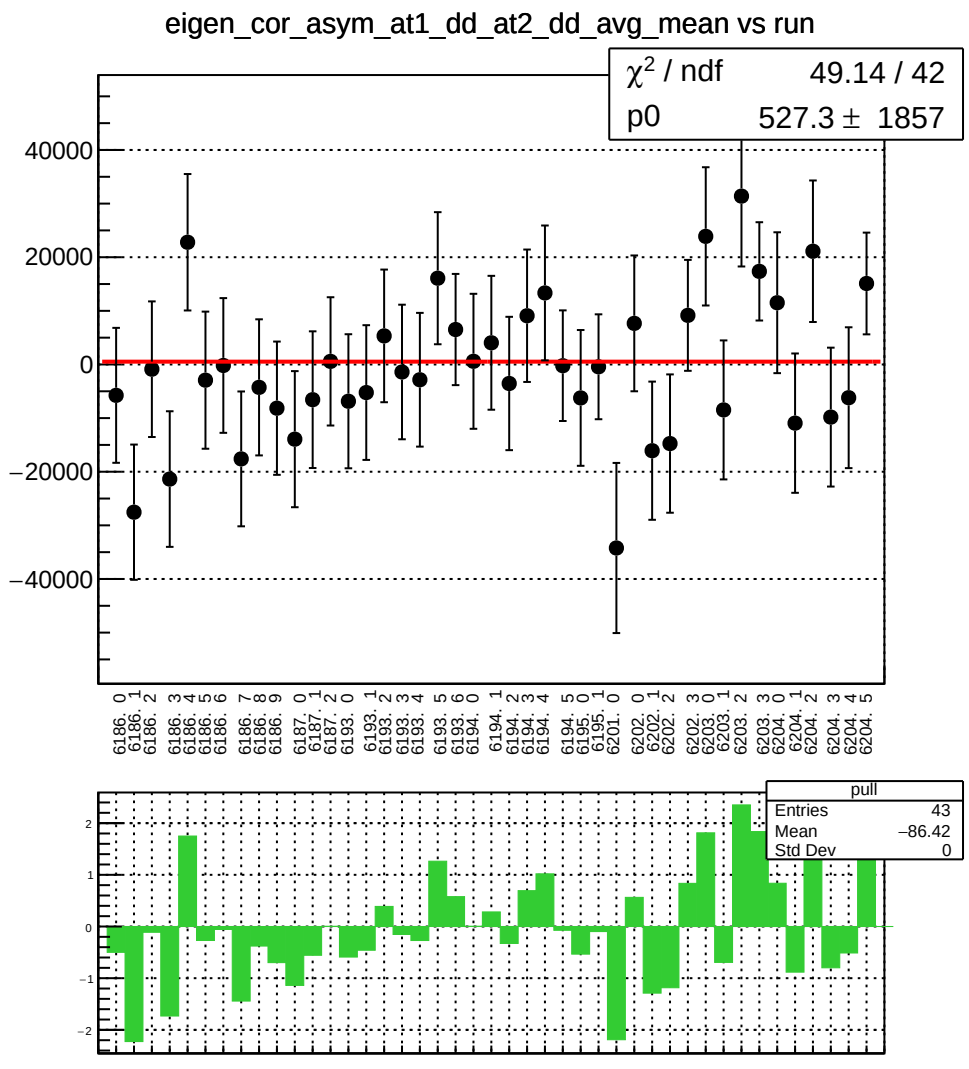

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 49.14 / 42
p0 527.3 ± 1857
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −86.42
Std Dev 0
2
1
0
−1
−2

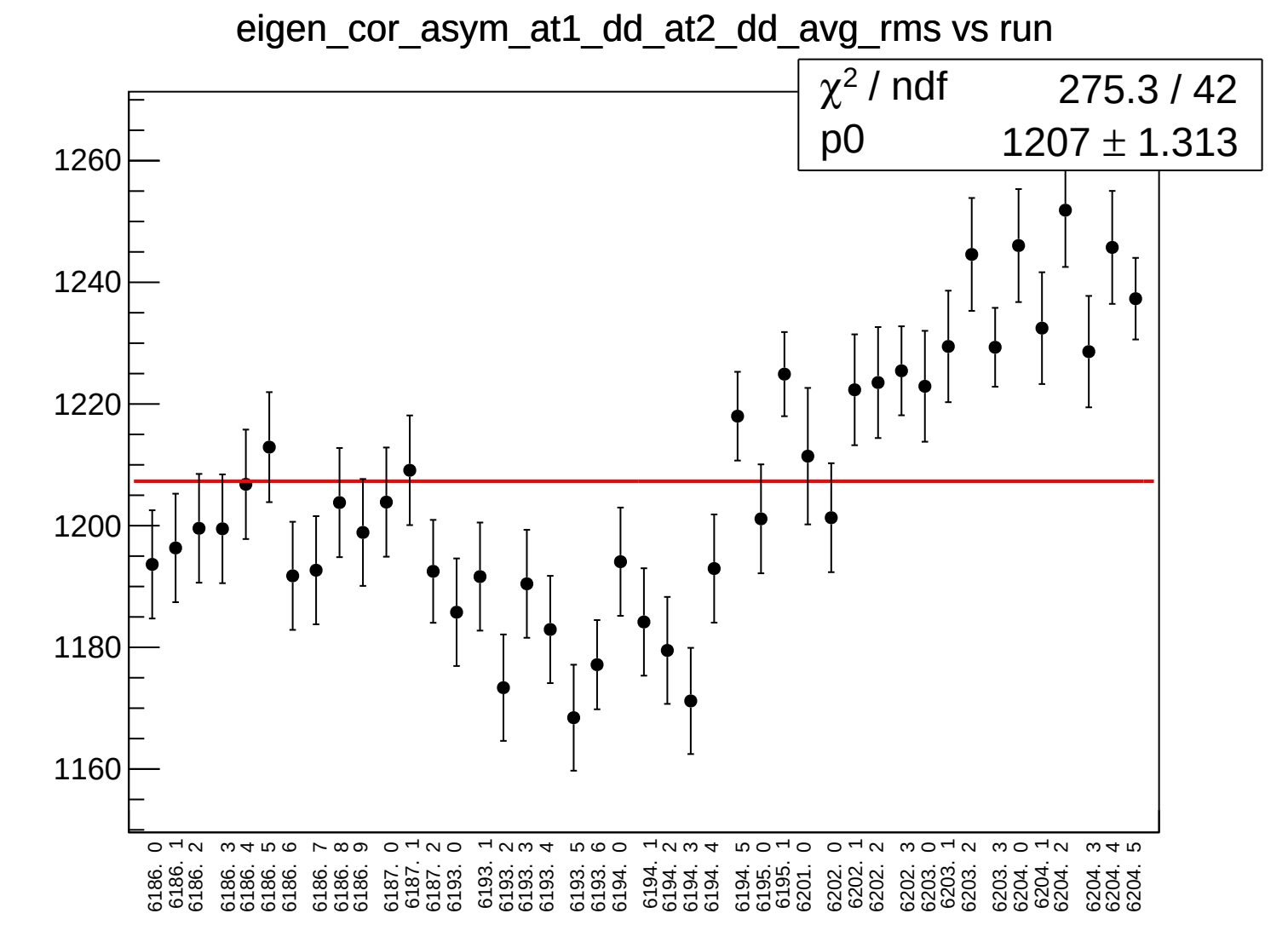

pull1D
Entries 43
Mean −0.04305
Std Dev 1.068
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

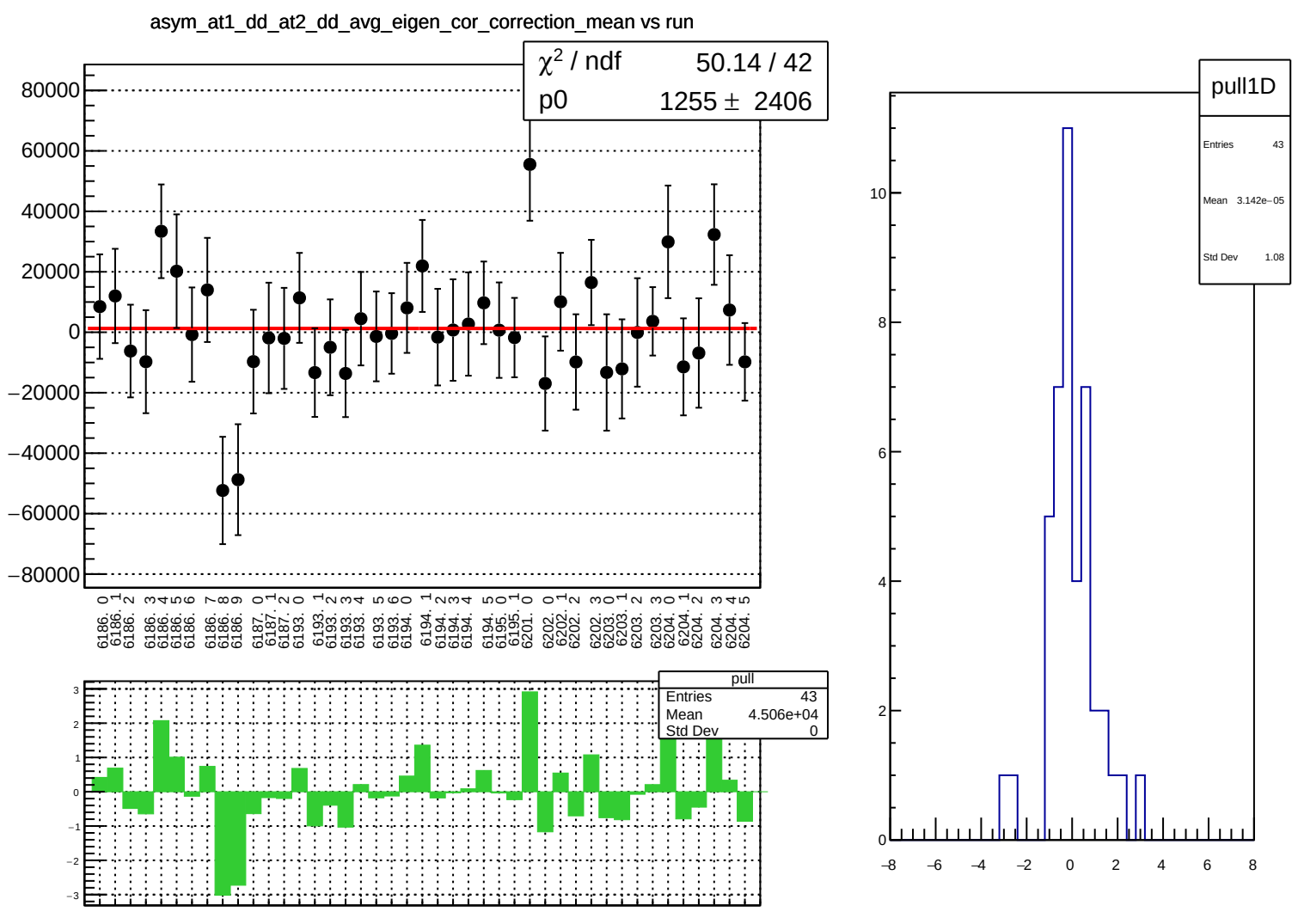

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 275.3 / 42
p0 1207 ± 1.313
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

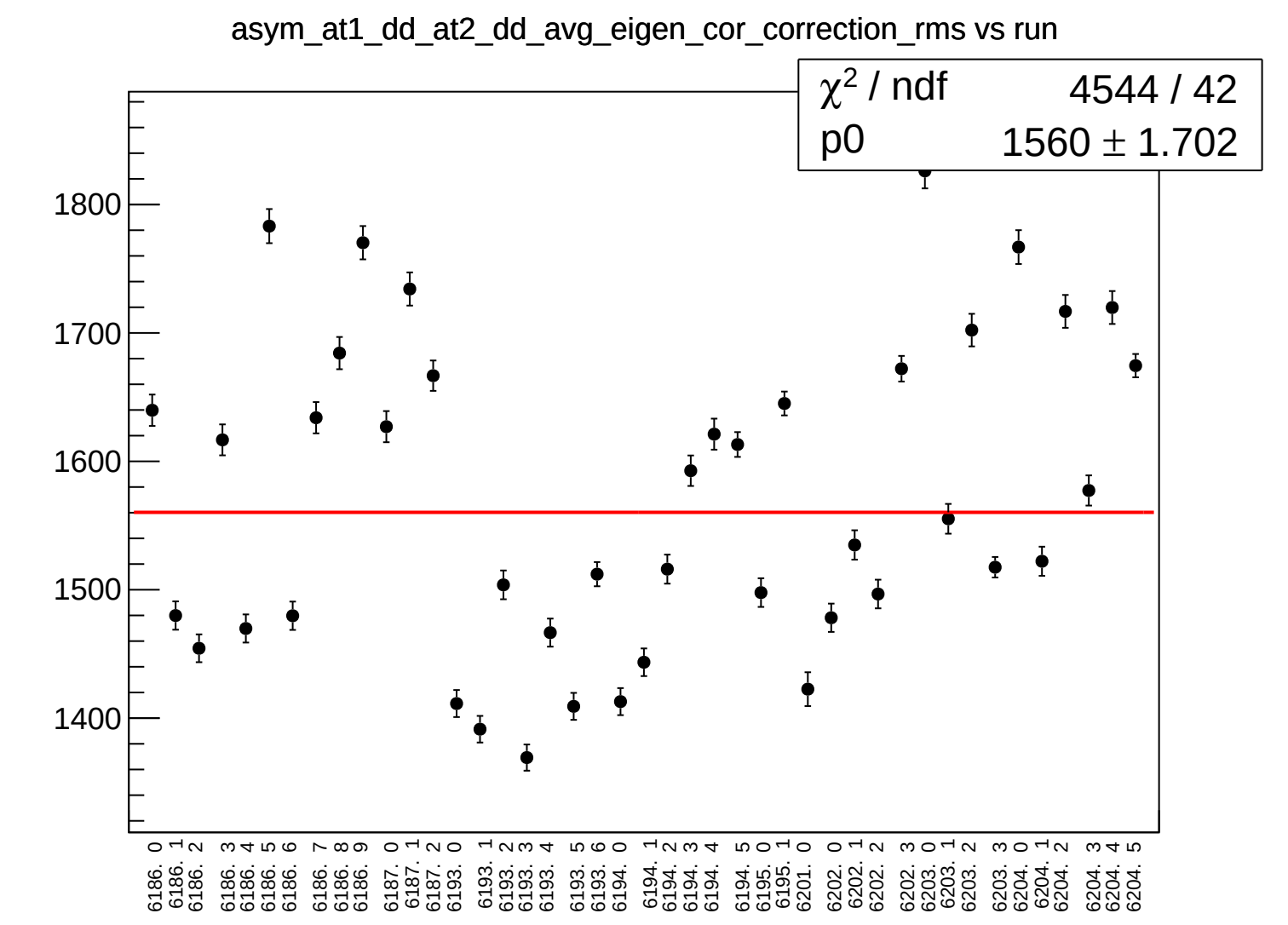

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 50.14 / 42
p0 1255 ± 2406
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.506e+04
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 3.142e−05
Std Dev 1.08
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

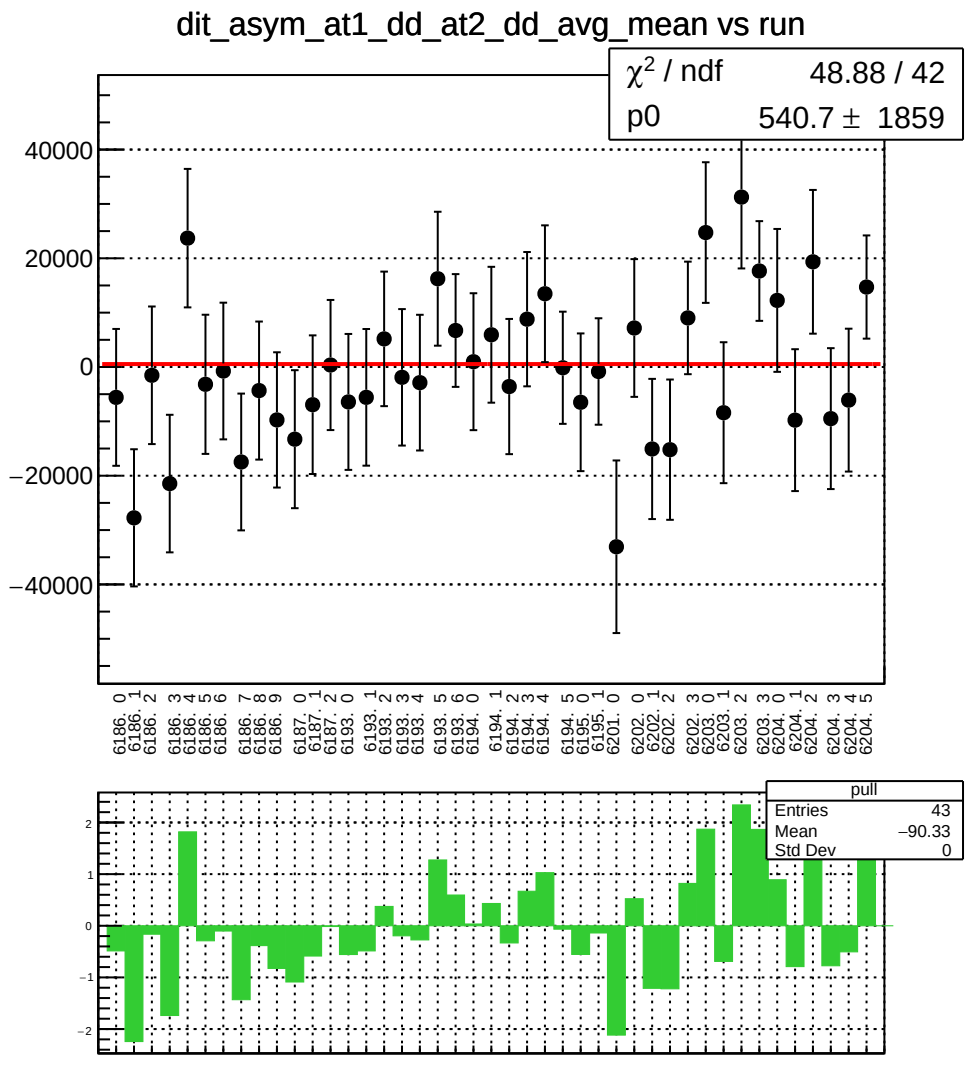

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 4544 / 42
p0 1560 ± 1.702
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

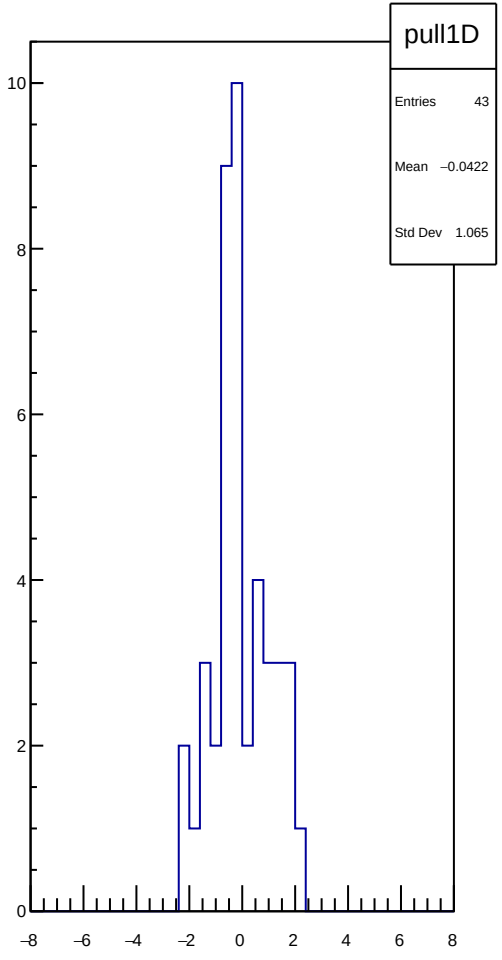

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 49.14 / 42
p0 527.3 ± 1857
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −86.42
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04305
Std Dev 1.068
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

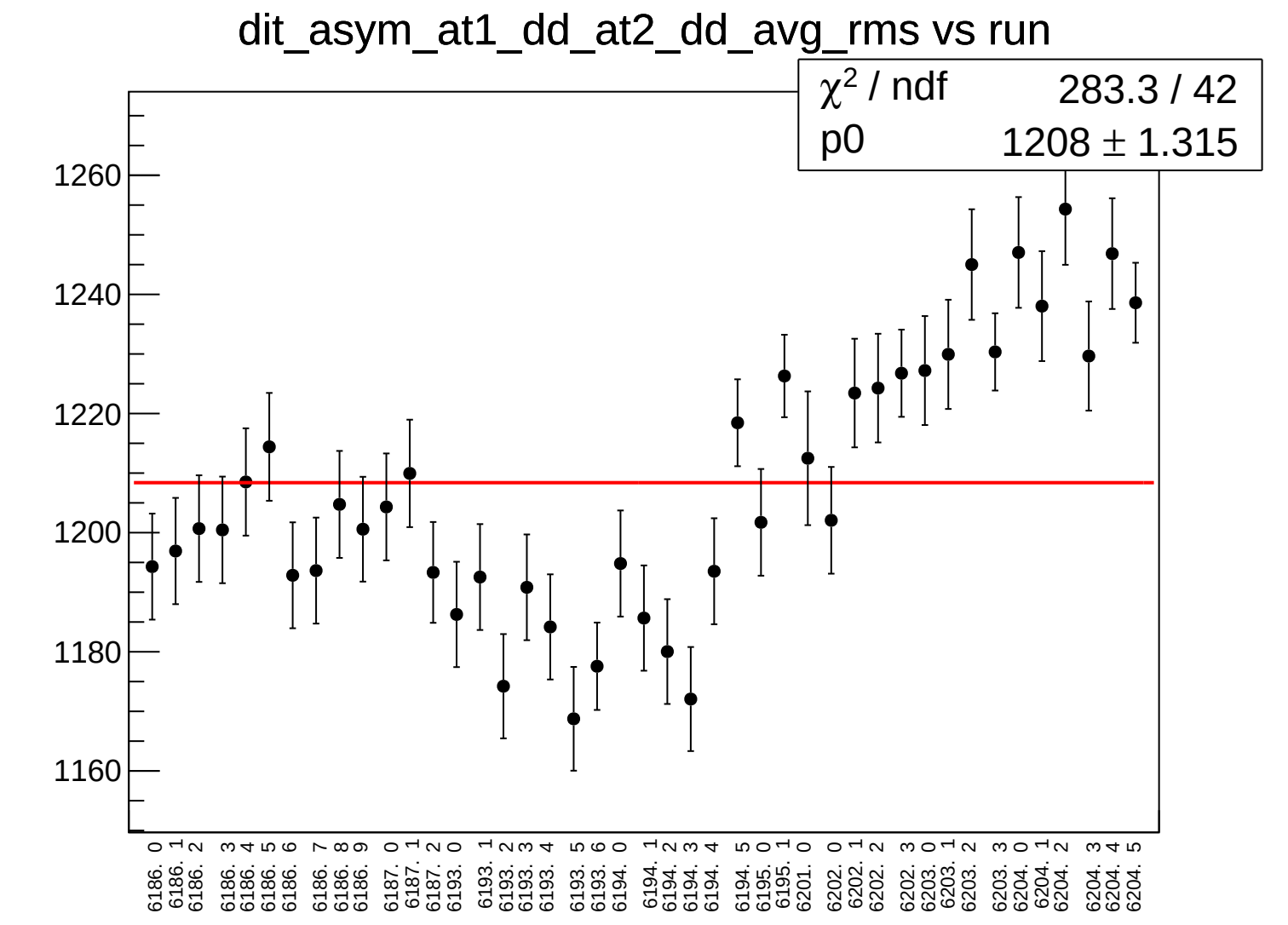

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 275.3 / 42
p0 1207 ± 1.313
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 50.14 / 42
p0 1255 ± 2406
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.506e+04
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 3.142e−05
Std Dev 1.08
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4544 / 42
p0 1560 ± 1.702
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 48.88 / 42
p0 540.7 ± 1859
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −90.33
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.0422
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 283.3 / 42
p0 1208 ± 1.315
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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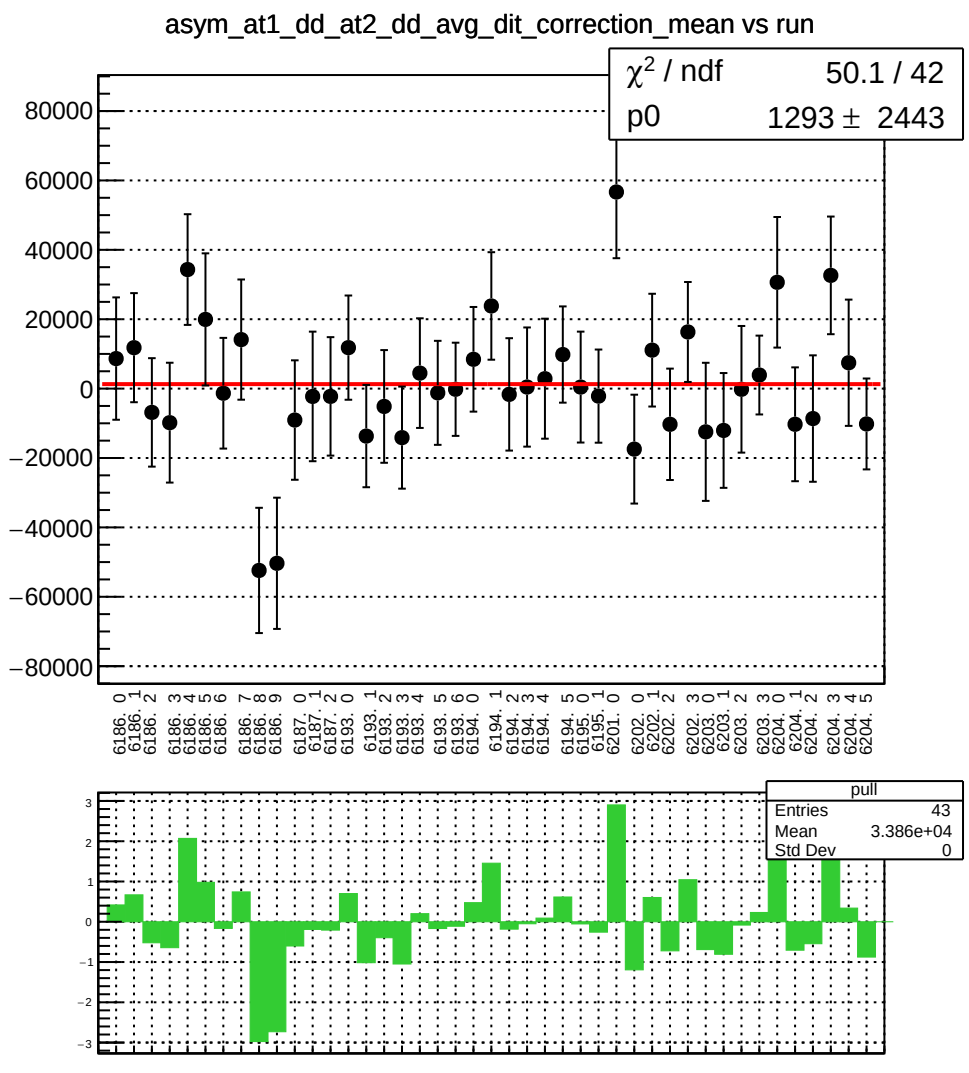
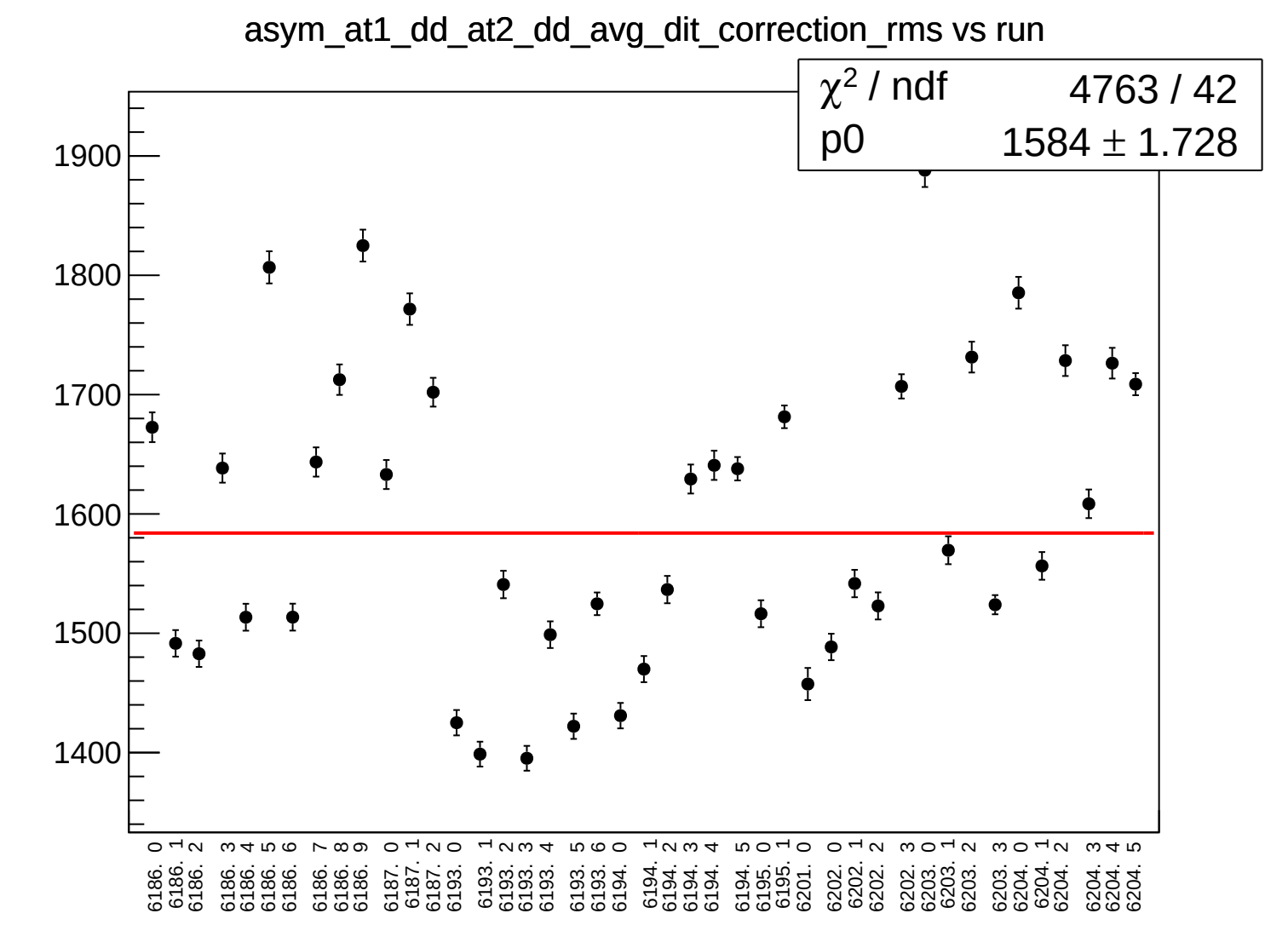
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 50.1 / 42
p0 1293 ± 2443
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 3.386e+04
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 4.277e−05
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 4763 / 42
p0 1584 ± 1.728
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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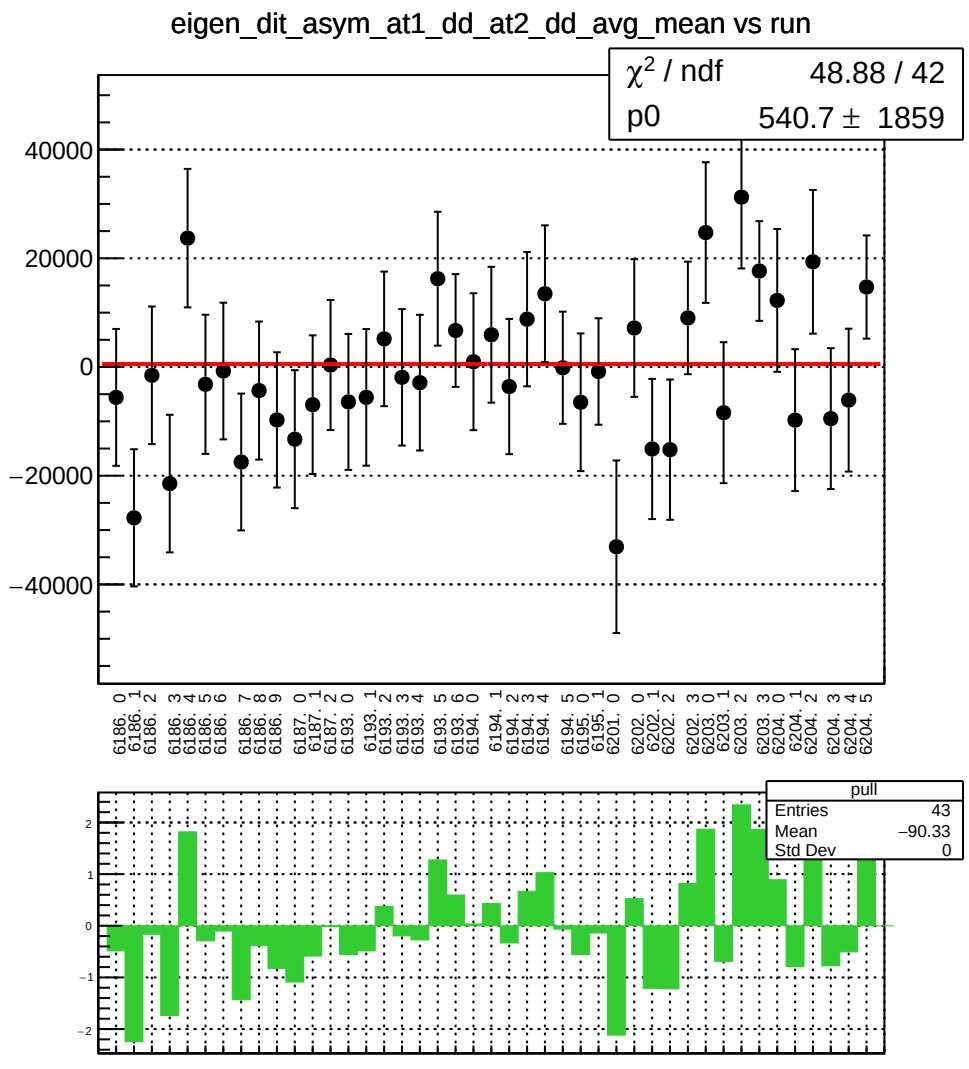
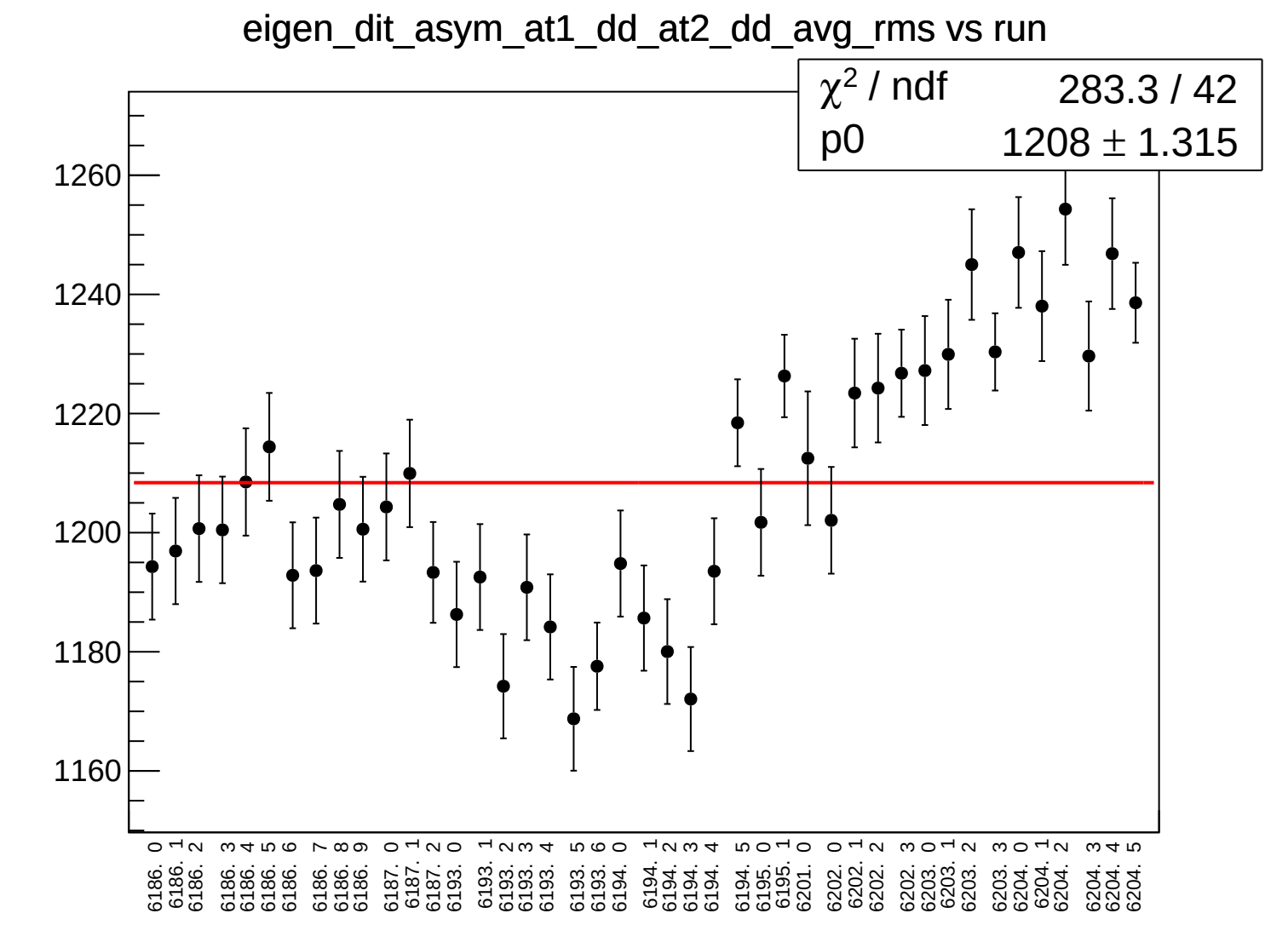
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 48.88 / 42
p0 540.7 ± 1859
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −90.33
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04221
Std Dev 1.065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 283.3 / 42
p0 1208 ± 1.315
1260
1240
1220
1200
1180
1160
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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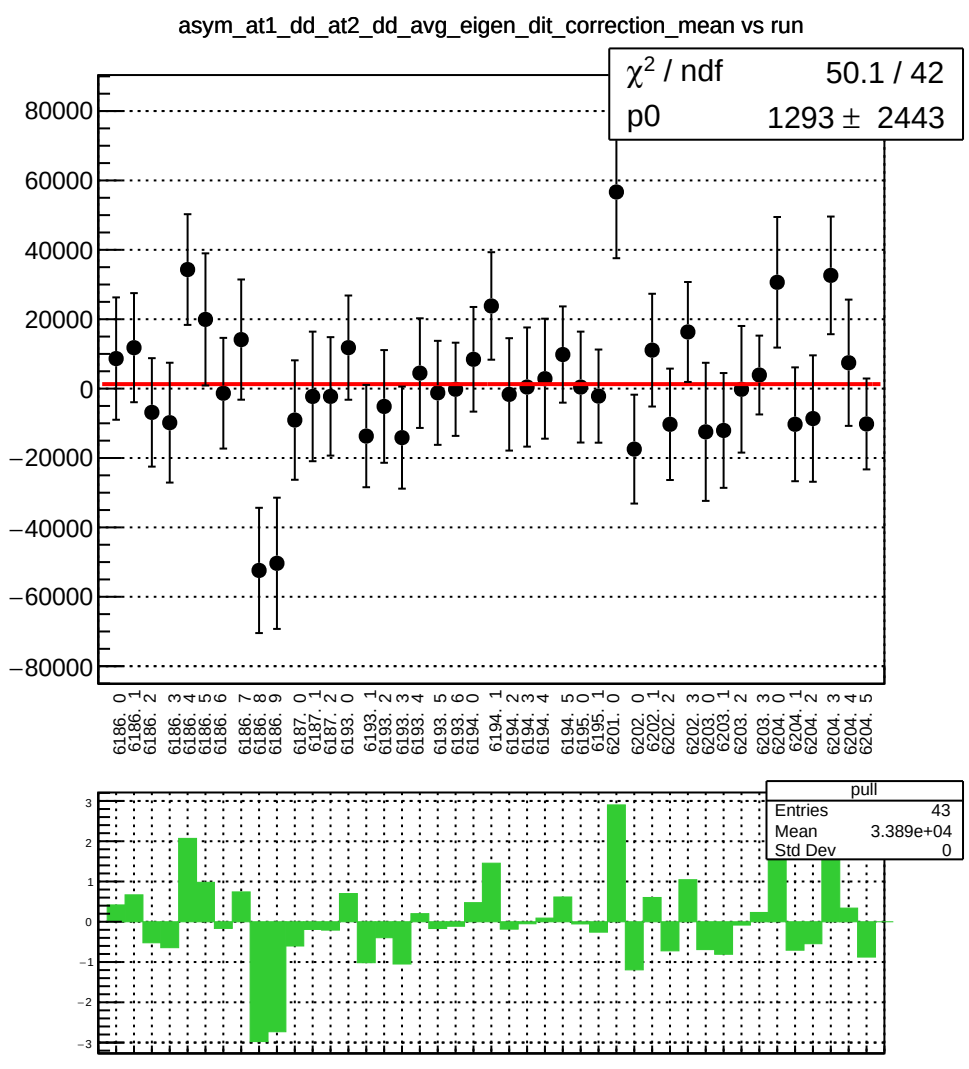
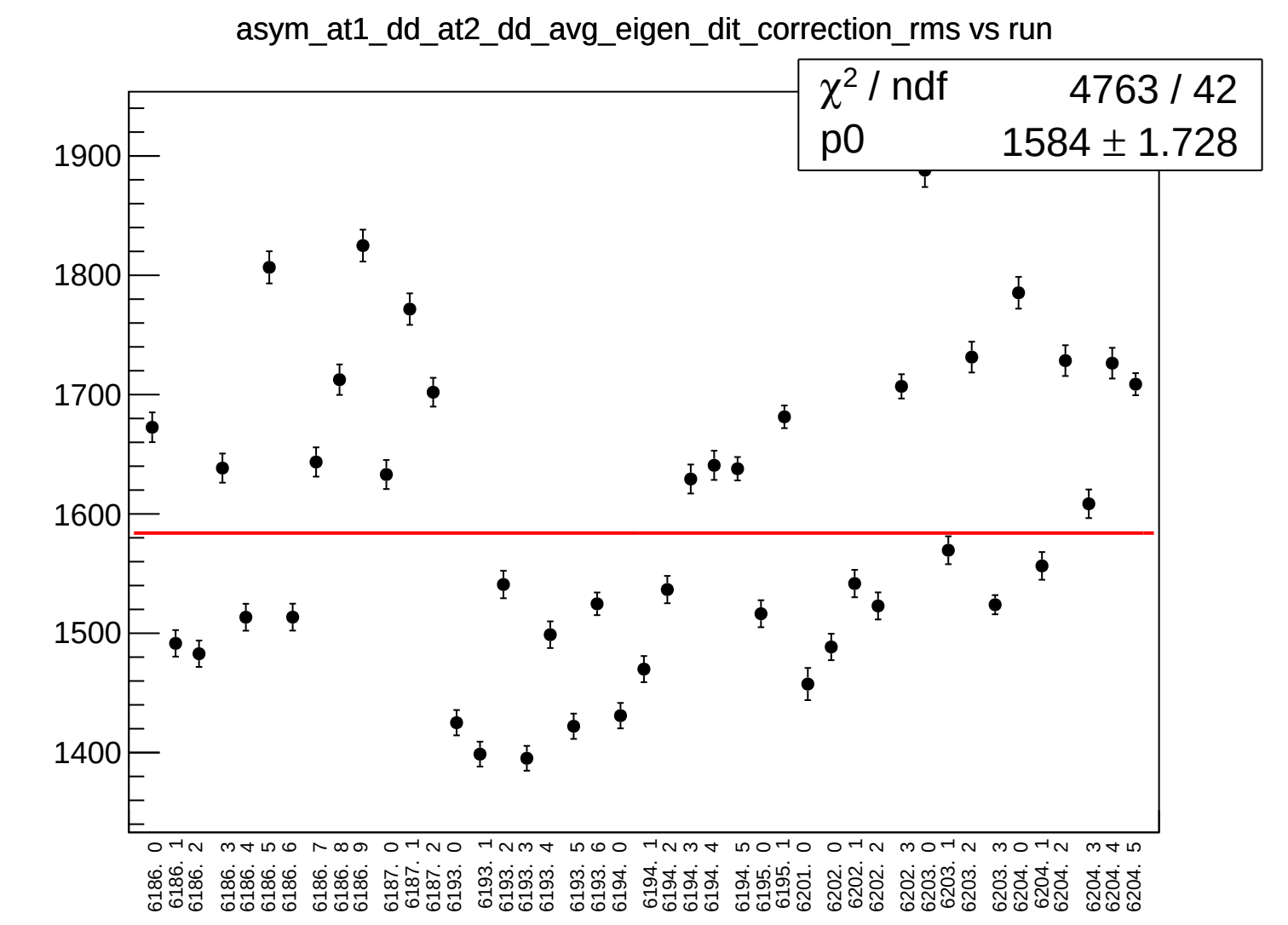
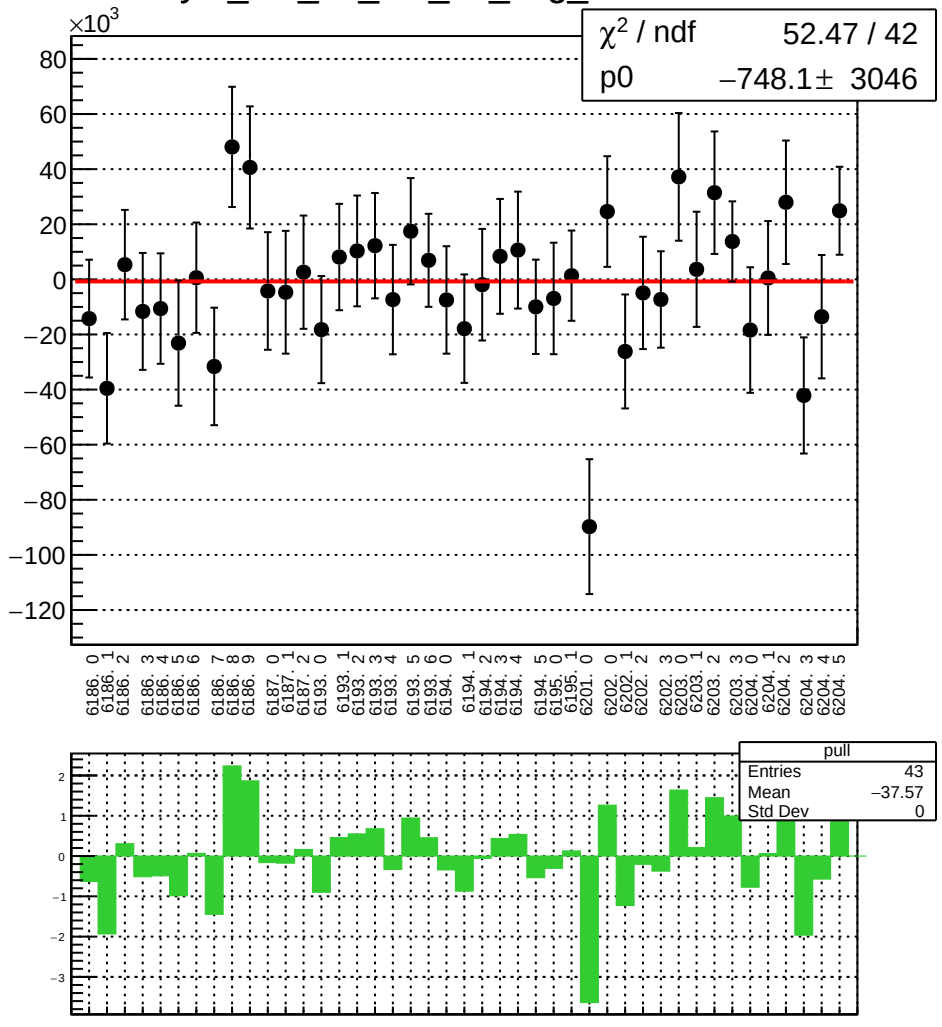
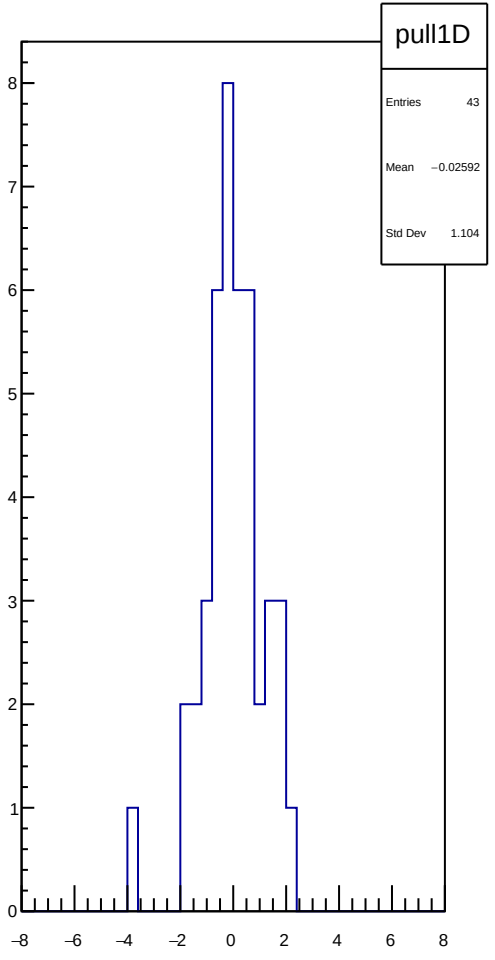
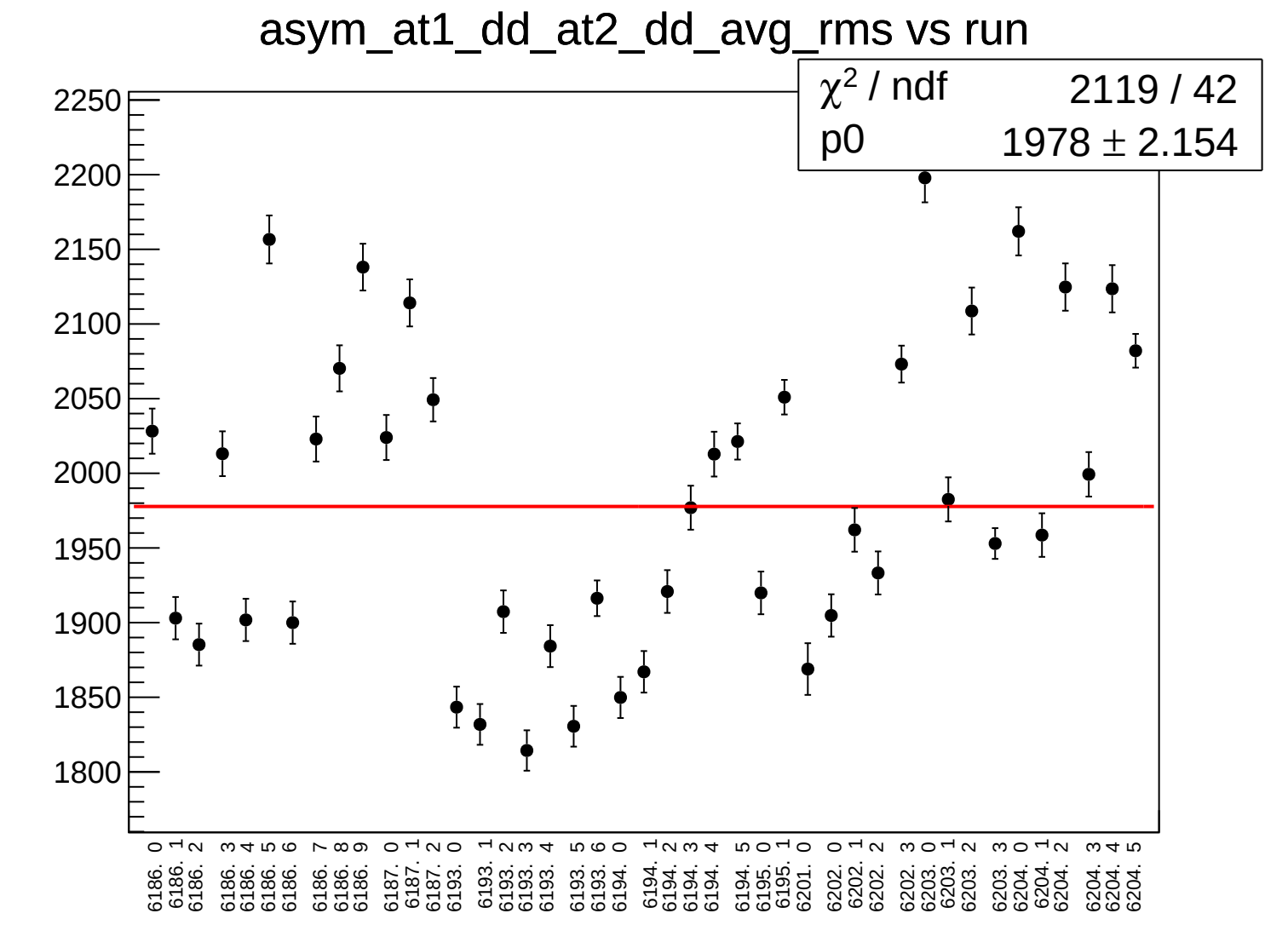
6204. 2
6204. 3
6204. 4
6204. 5

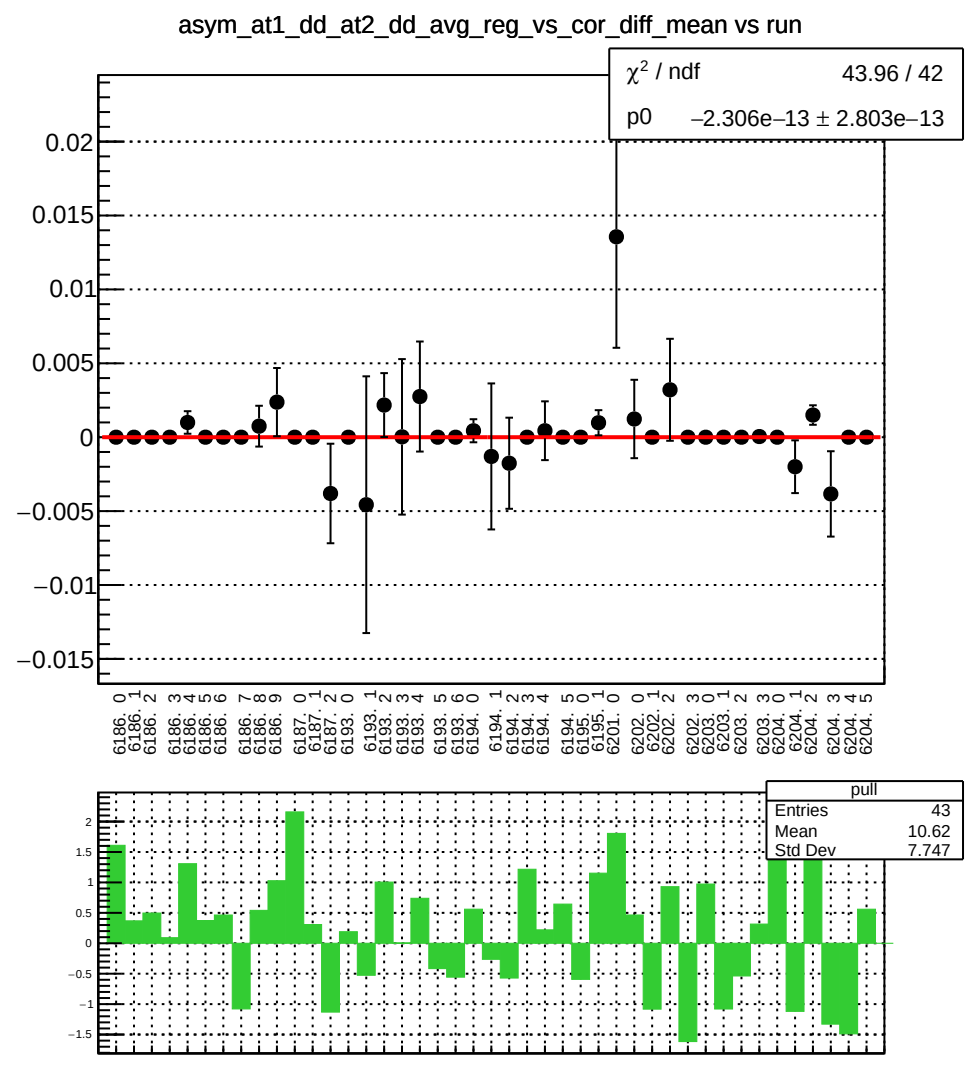

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 50.1 / 42
p0 1293 ± 2443
pull
Entries 43
Mean 3.389e+04
Std Dev 0
pull1D
Entries 43
Mean 4.273e−05
Std Dev 1.079

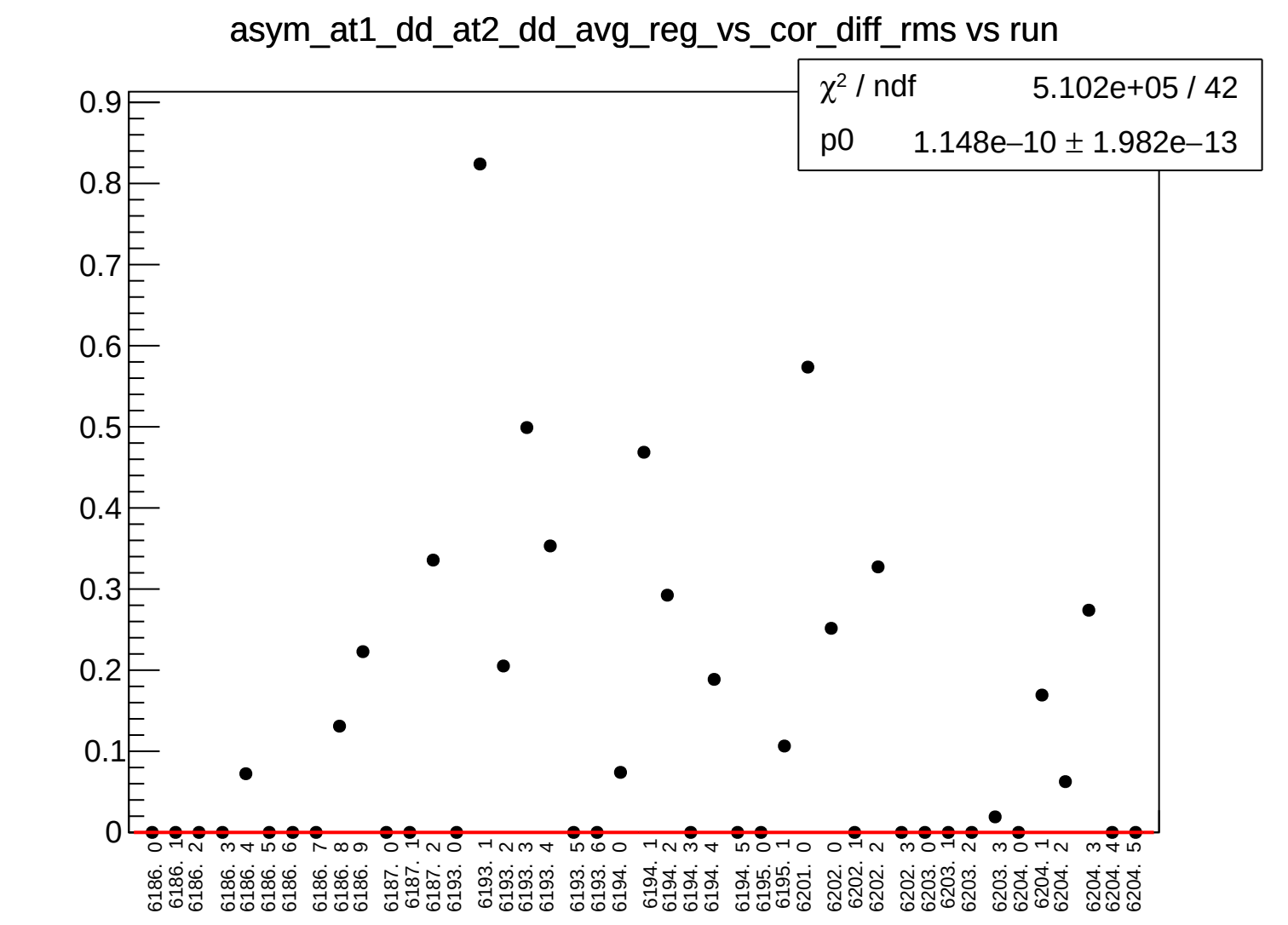

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4763 / 42
p0 1584 ± 1.728
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

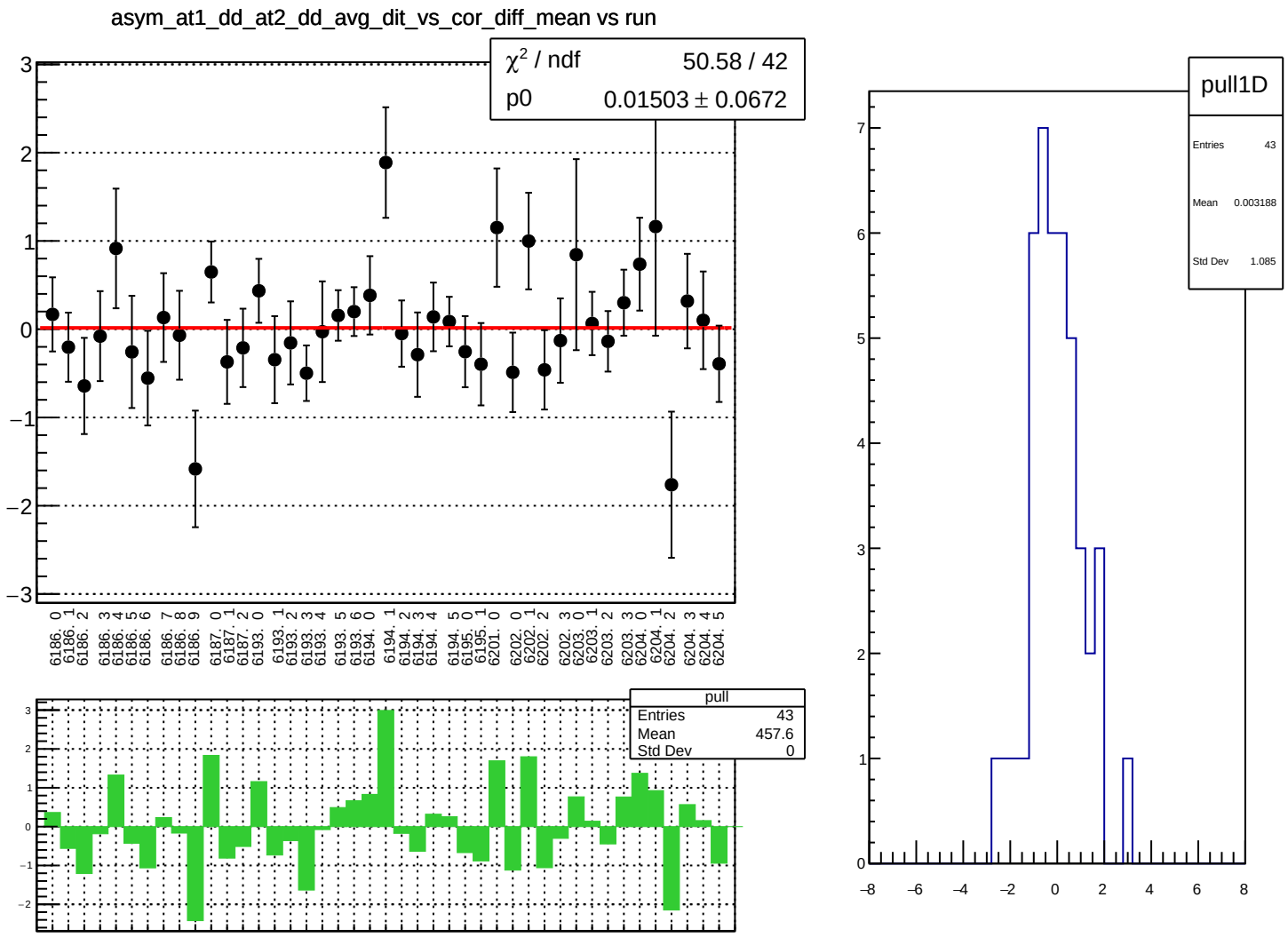

asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ² / ndf 52.47 / 42
p0 −748.1± 3046
80
60
40
20
0
−20
−40
−60
−80
−100
−120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −37.57
Std Dev 0
2
1
0
−1
−2
−3

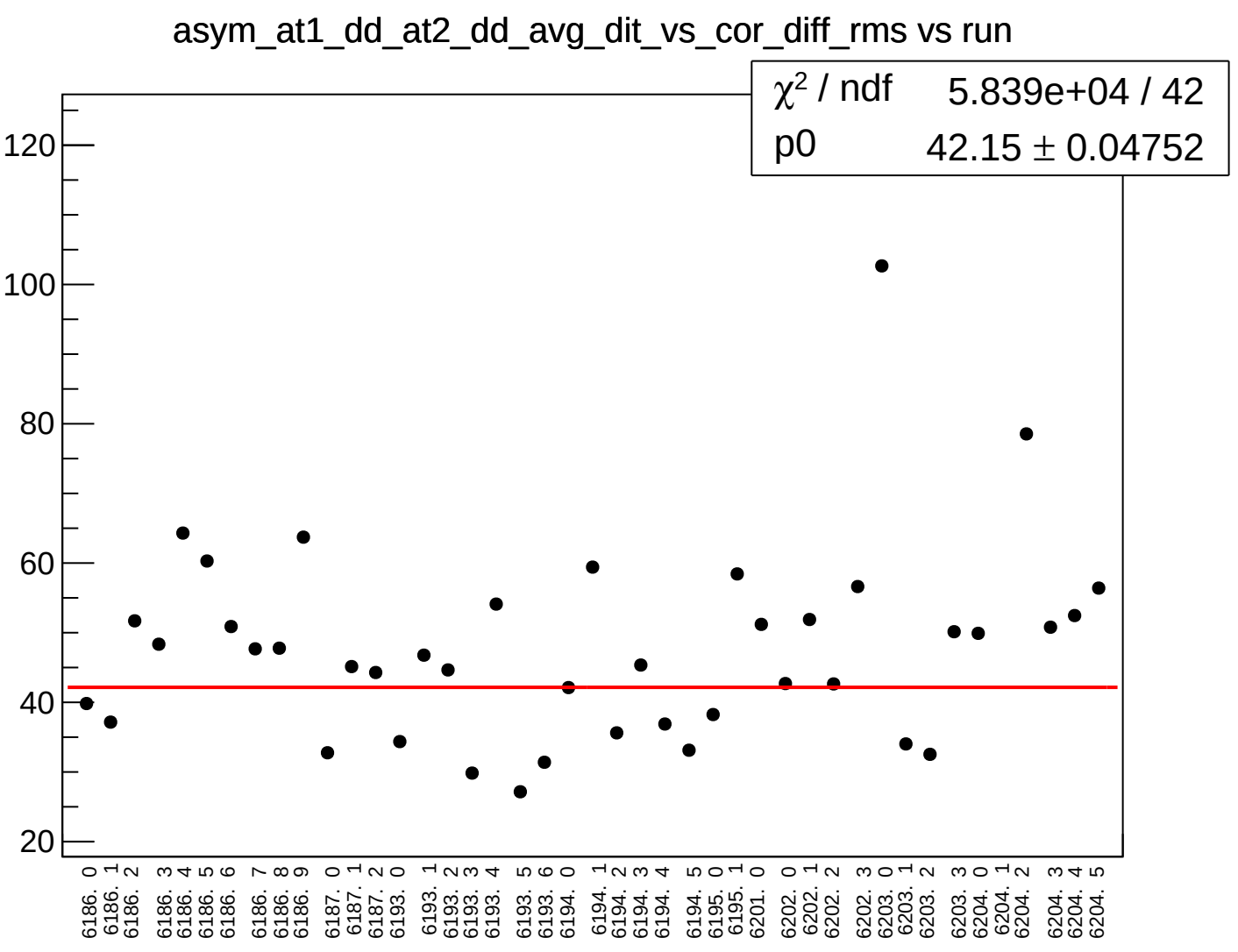

pull1D
Entries 43
Mean −0.02592
Std Dev 1.104
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

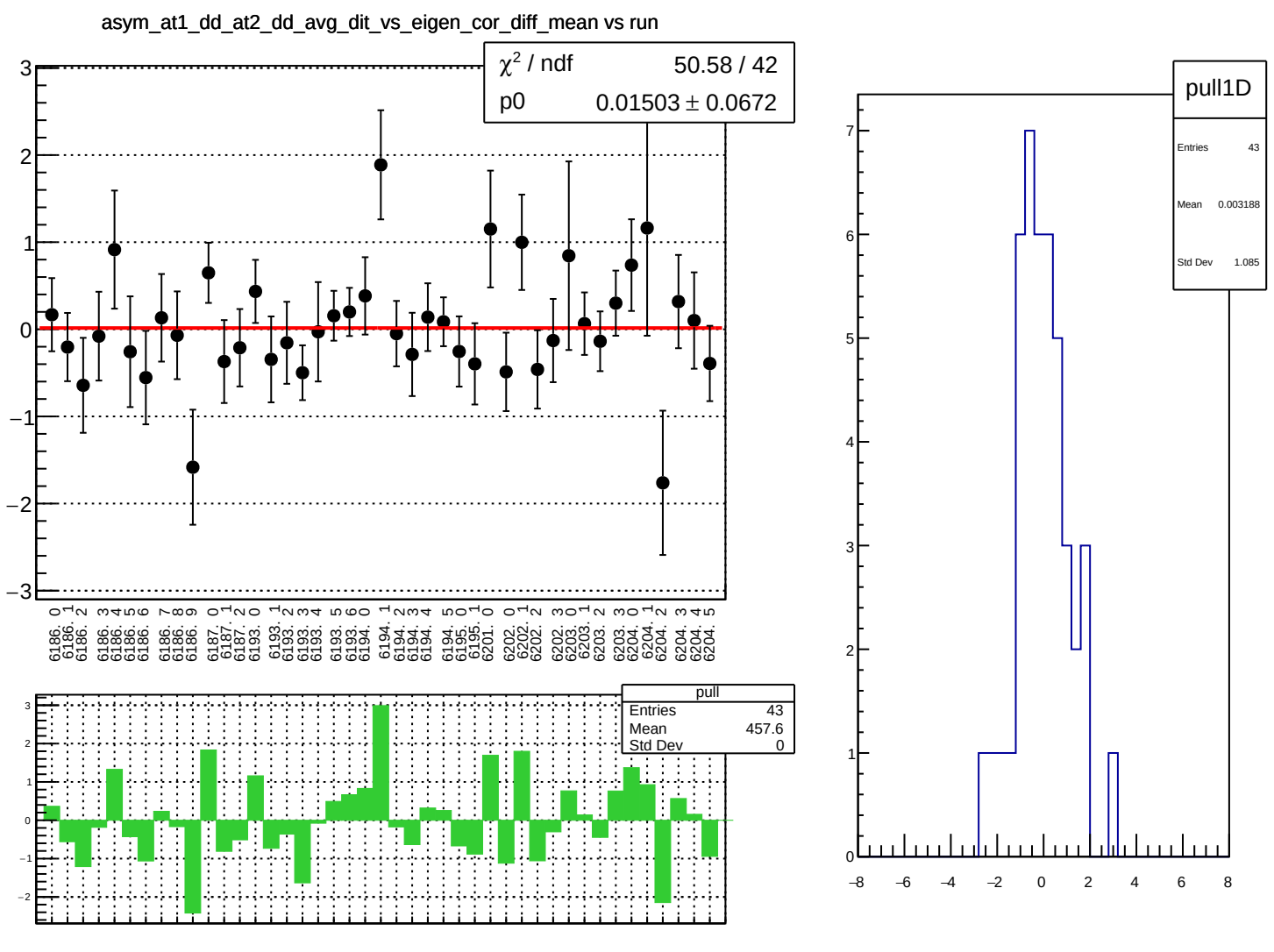

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 2119 / 42
p0 1978 ± 2.154
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

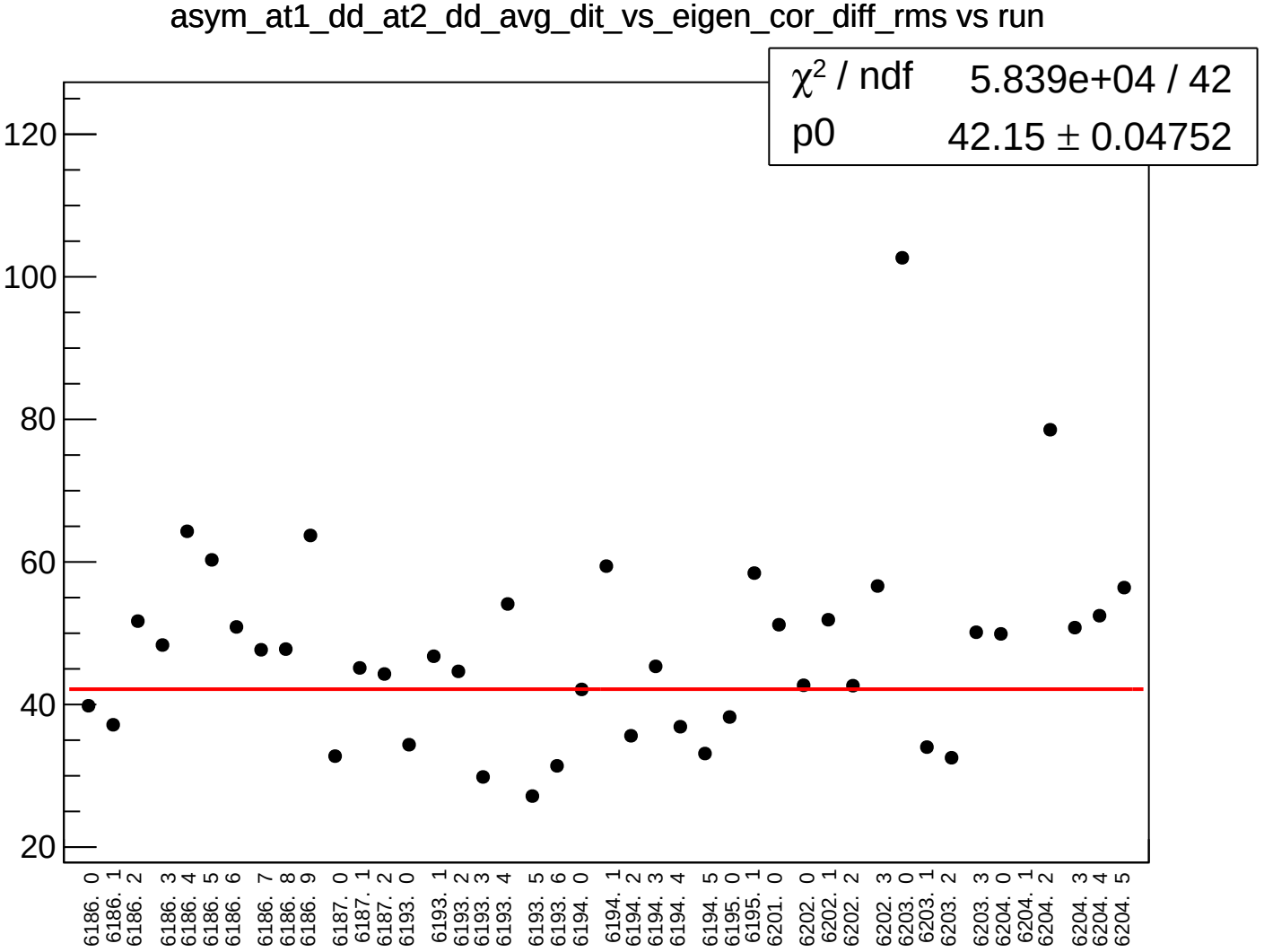

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 43.96 / 42
p0 −2.306e−13 ± 2.803e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 10.62
Std Dev 7.747
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.2313
Std Dev 0.9843
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

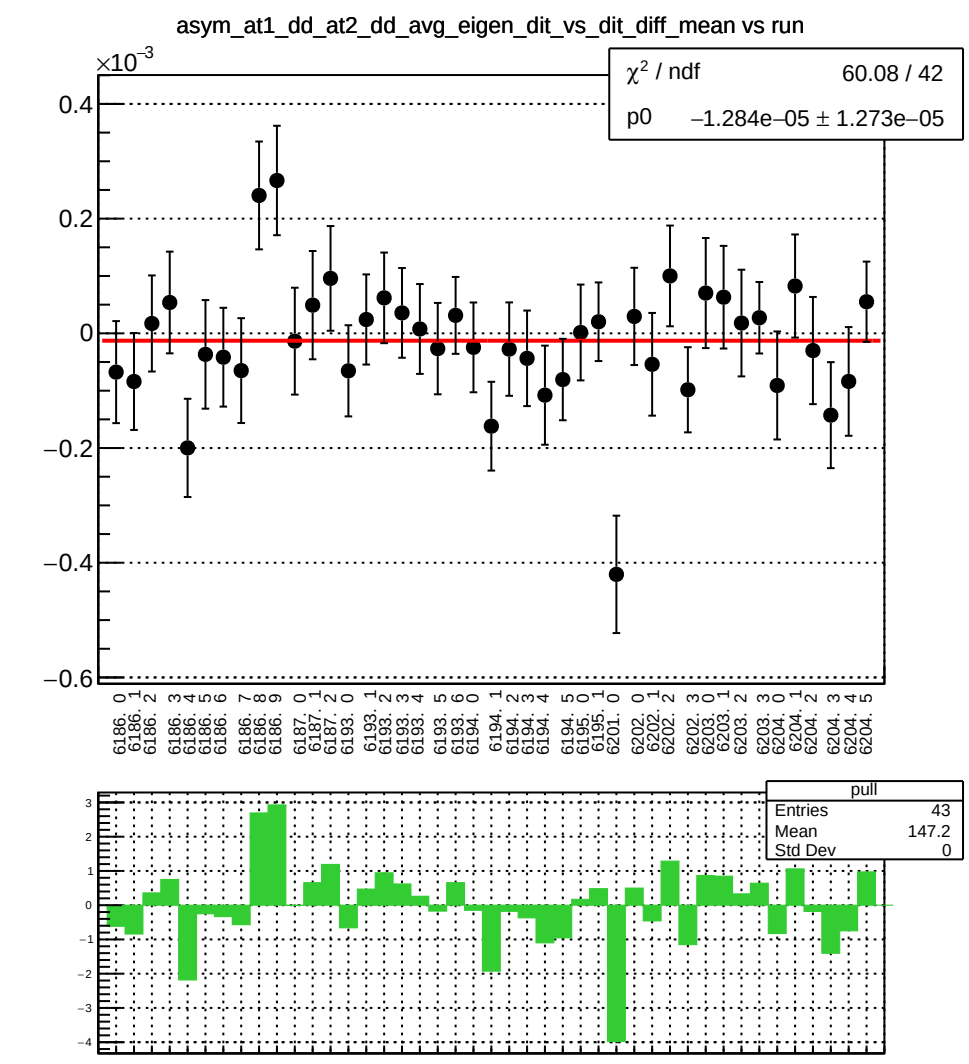

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.102e+05 / 42
p0 1.148e−10 ± 1.982e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

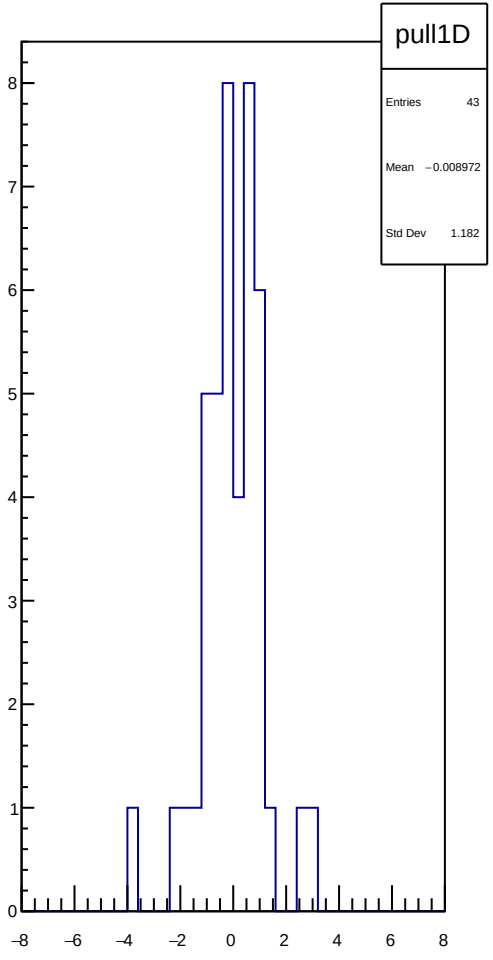

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 50.58 / 42
p0 0.01503 ± 0.0672
pull
Entries 43
Mean 457.6
Std Dev 0
pull1D
Entries 43
Mean 0.003188
Std Dev 1.085

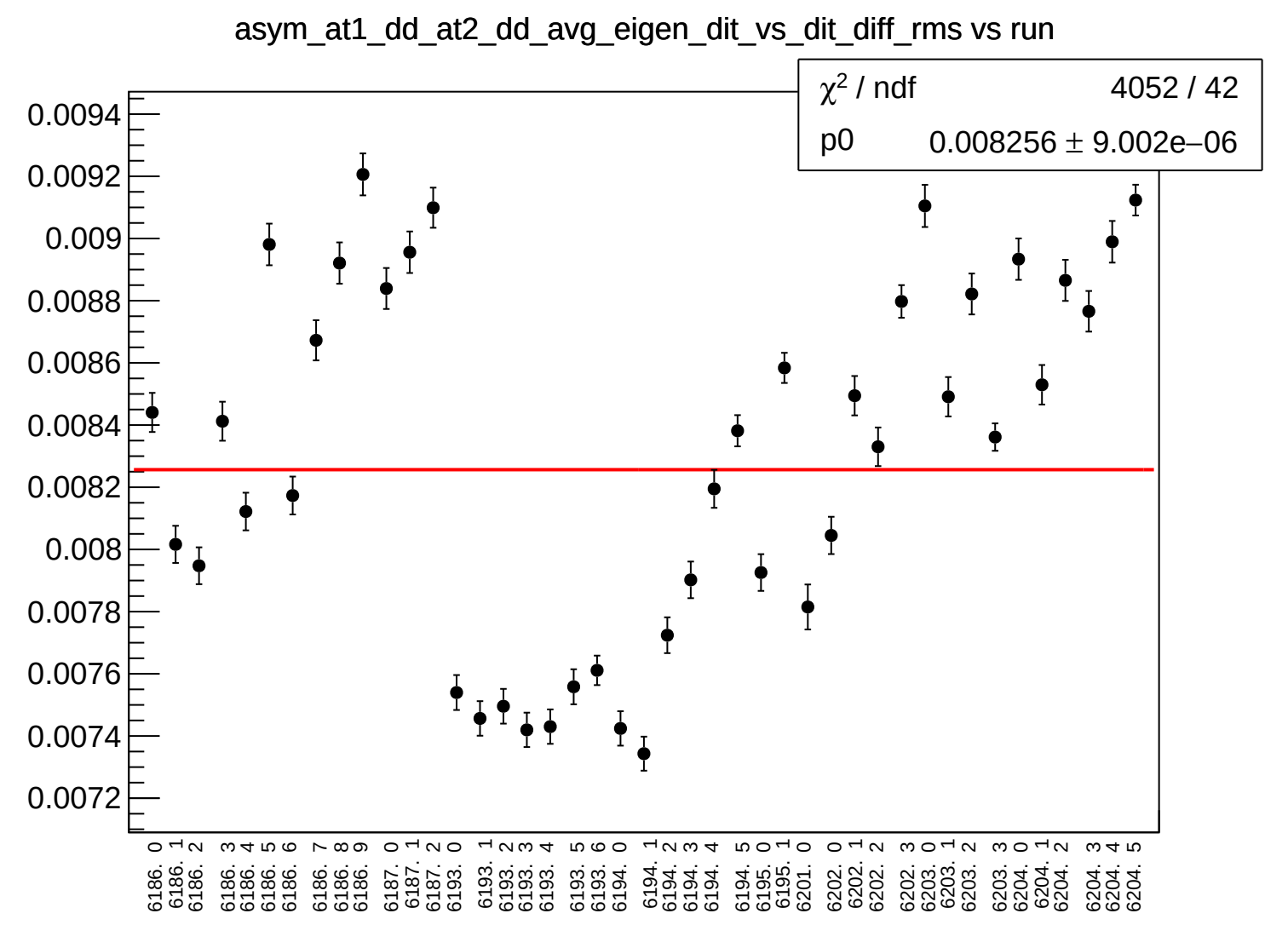

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.839e+04 / 42
p0 42.15 ± 0.04752
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

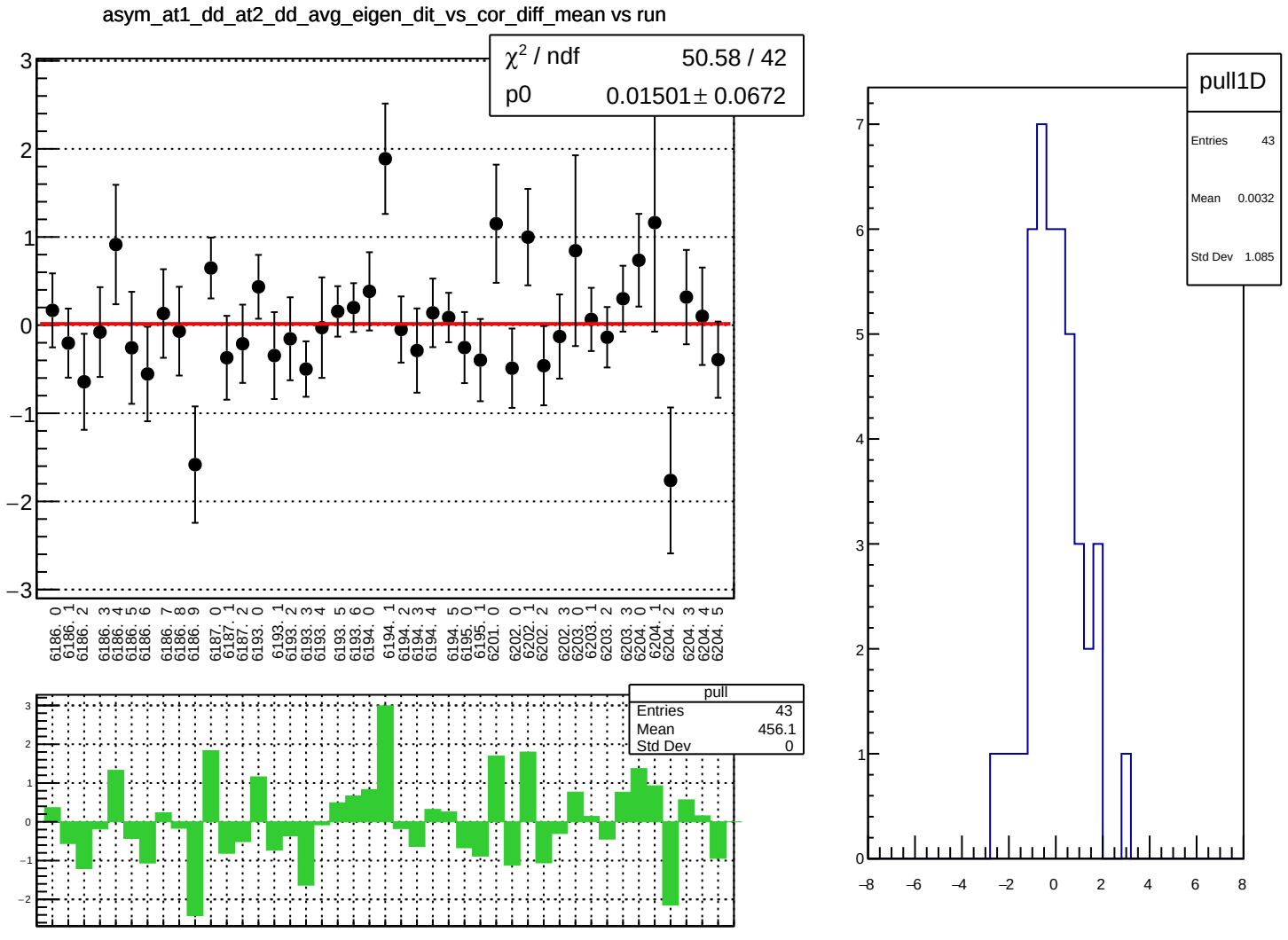

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.58 / 42
p0 0.01503 ± 0.0672
pull
Entries 43
Mean 457.6
Std Dev 0
pull1D
Entries 43
Mean 0.003188
Std Dev 1.085

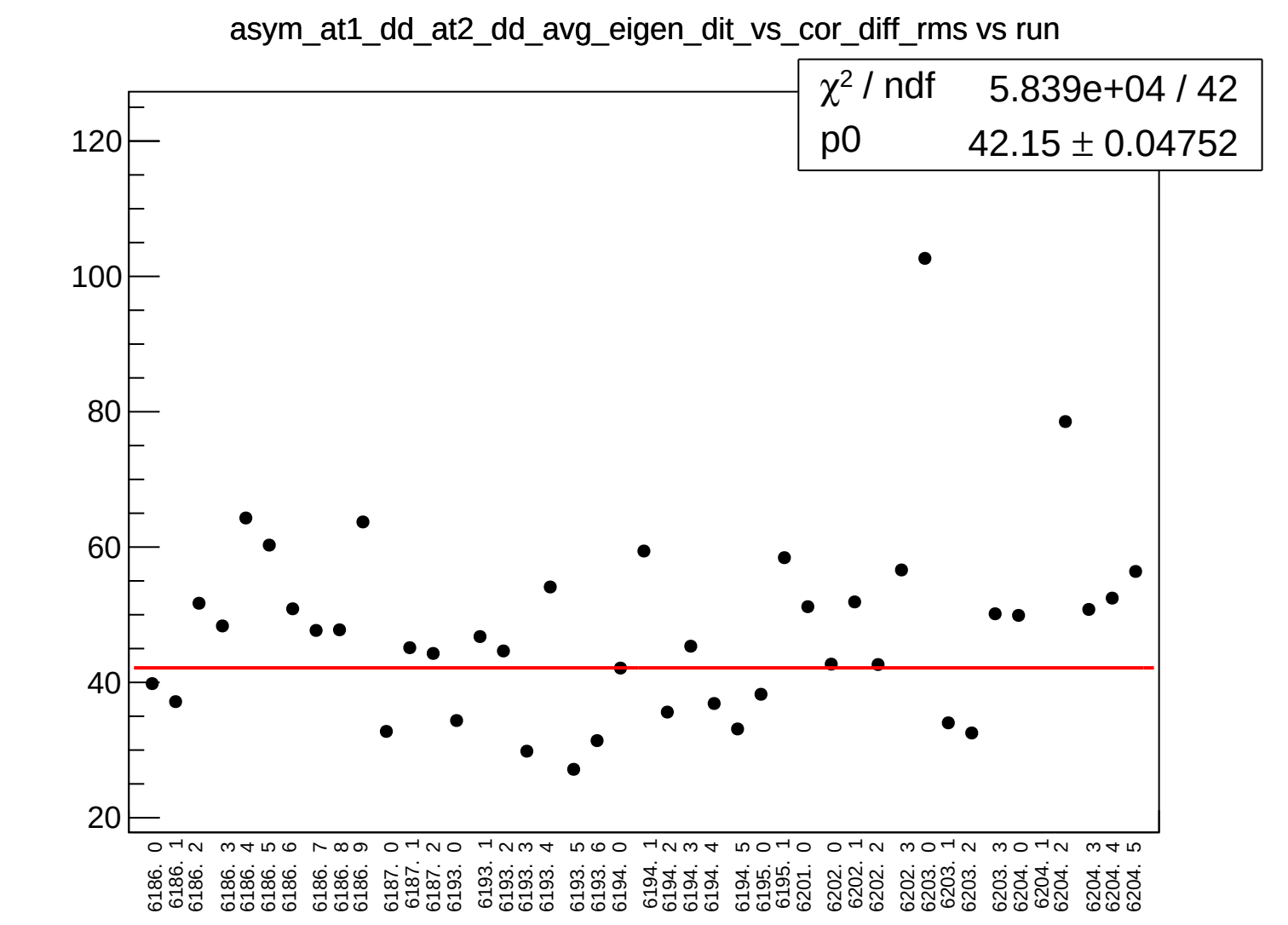

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.839e+04 / 42
p0 42.15 ± 0.04752
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

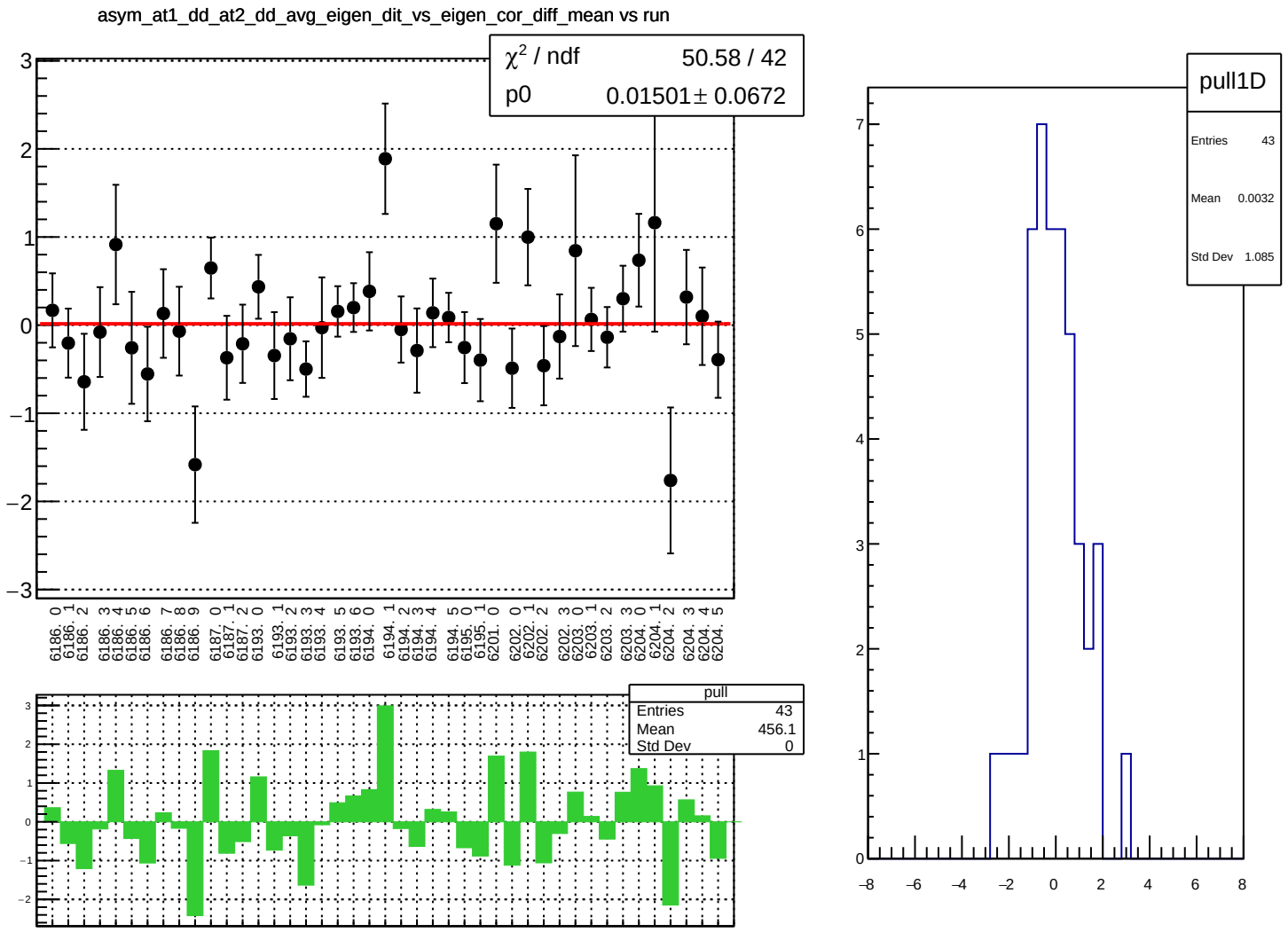

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 60.08 / 42
p0 −1.284e−05 ± 1.273e−05
0.4
0.2
0
−0.2
−0.4
−0.6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 147.2
Std Dev 0
3
2
1
0
−1
−2
−3
−4

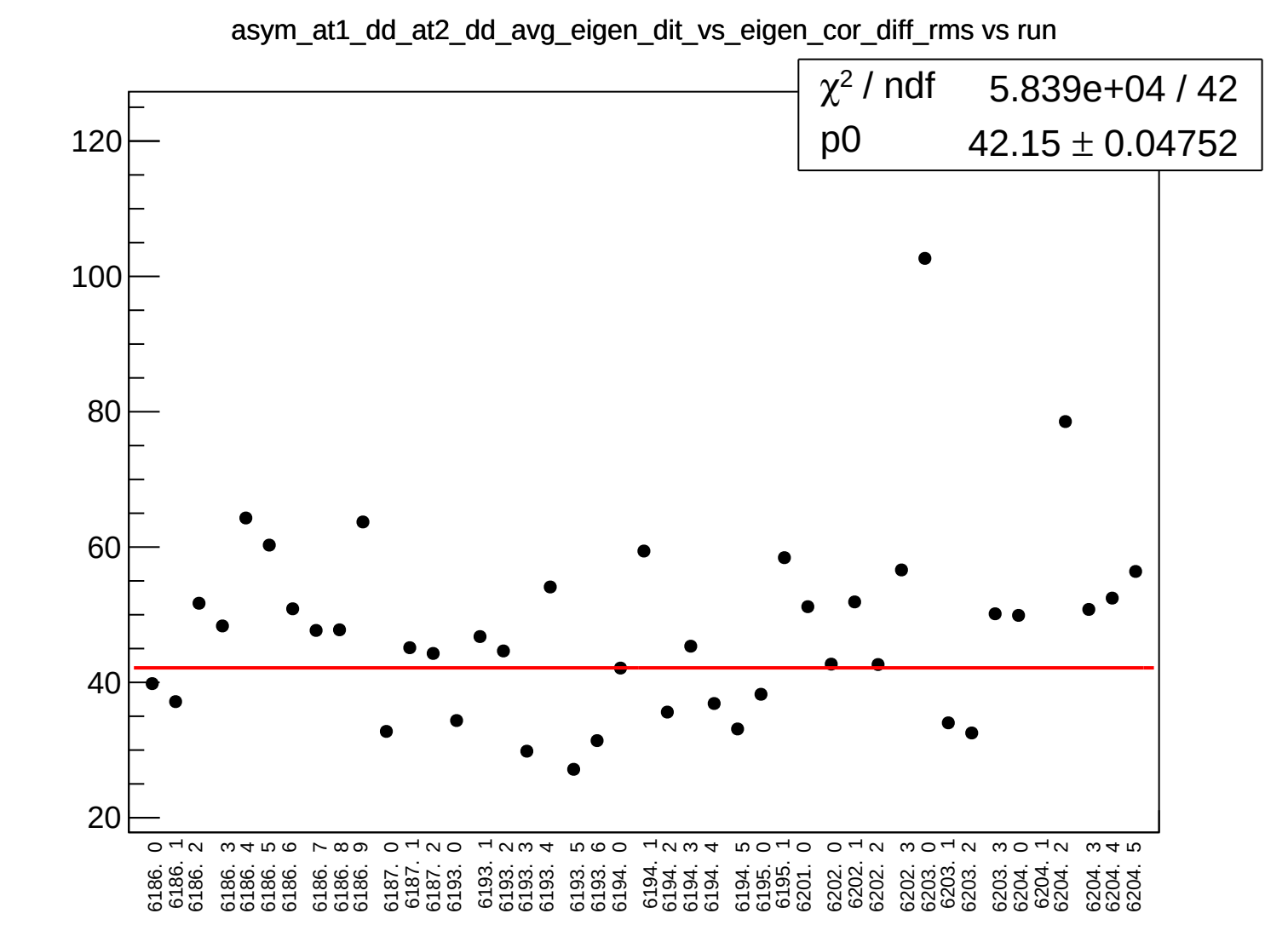

pull1D
Entries 43
Mean −0.008972
Std Dev 1.182
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

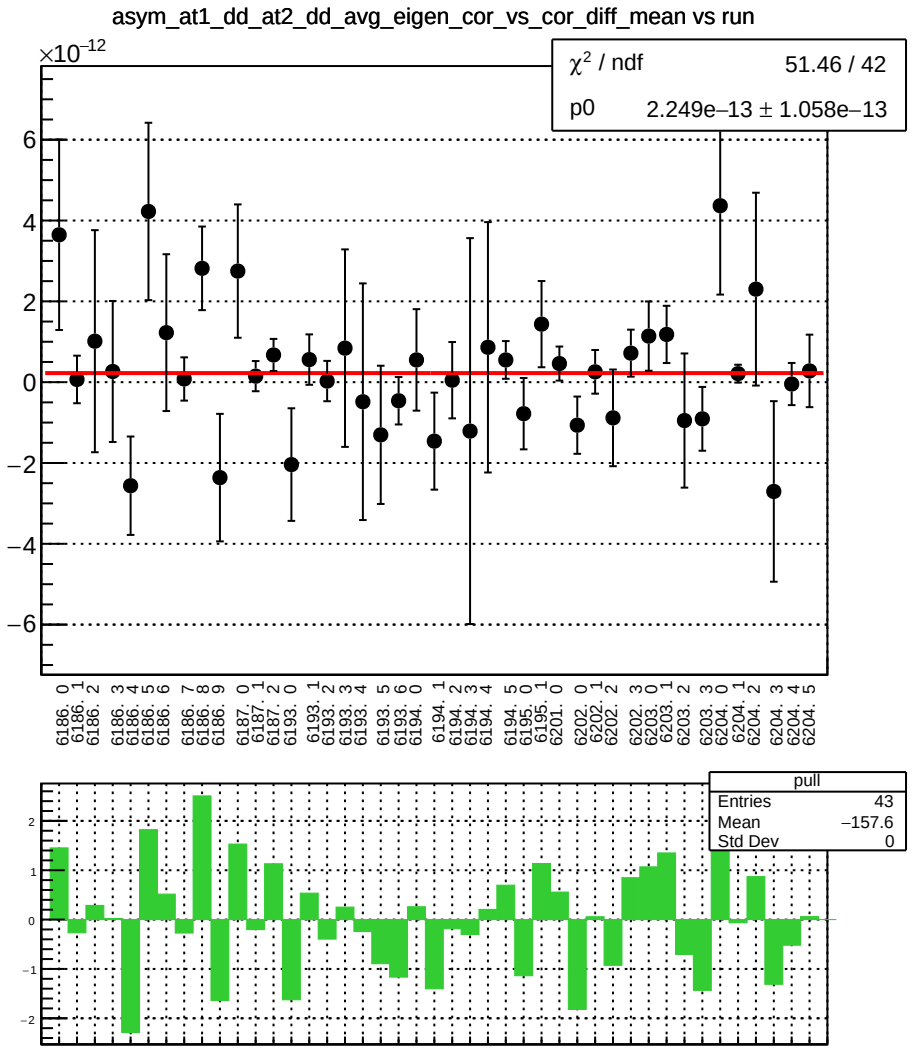

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4052 / 42
p0 0.008256 ± 9.002e−06
0.0094
0.0092
0.009
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

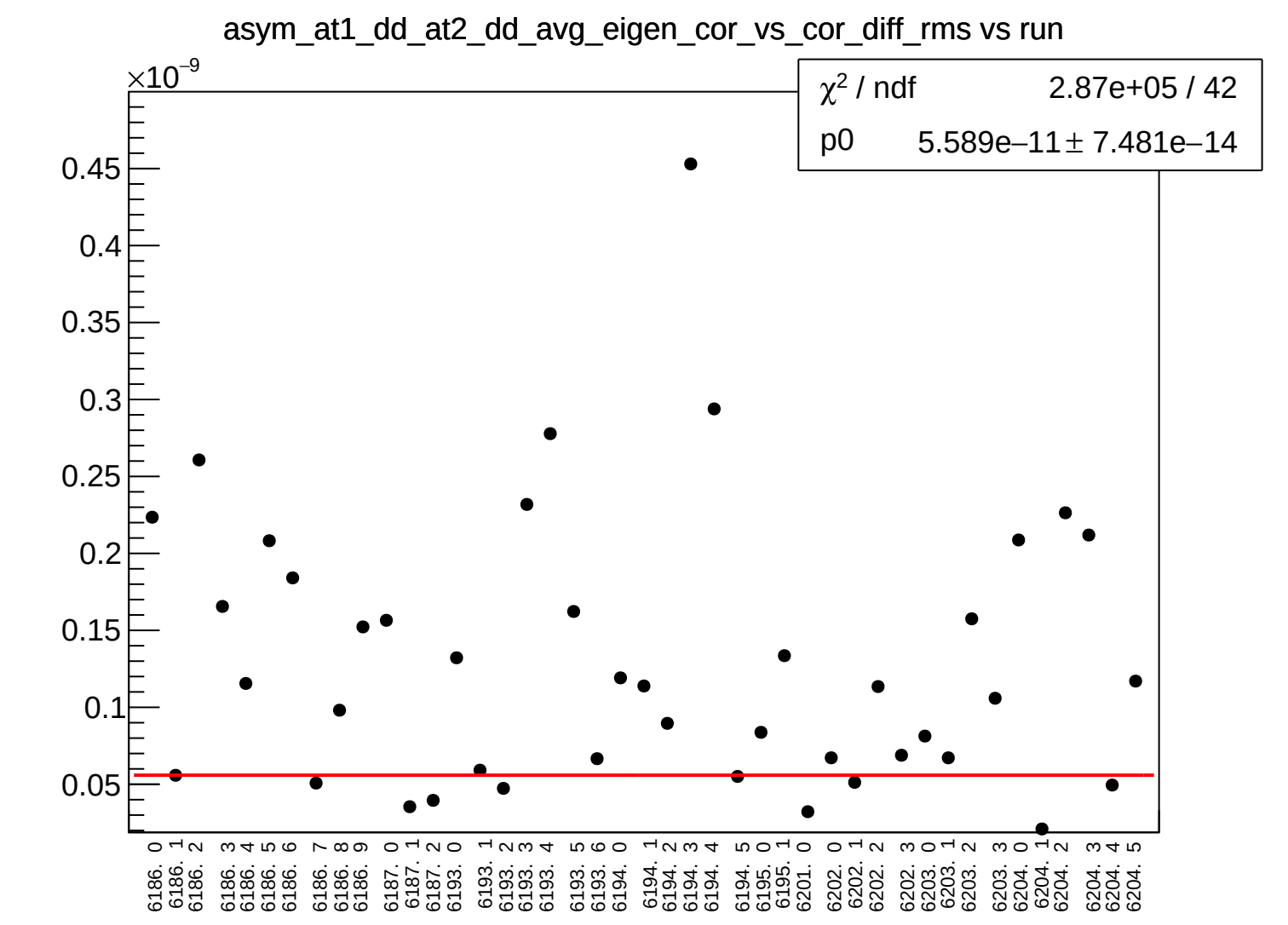

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.58 / 42
p0 0.01501 ± 0.0672
pull
Entries 43
Mean 456.1
Std Dev 0
pull1D
Entries 43
Mean 0.0032
Std Dev 1.085

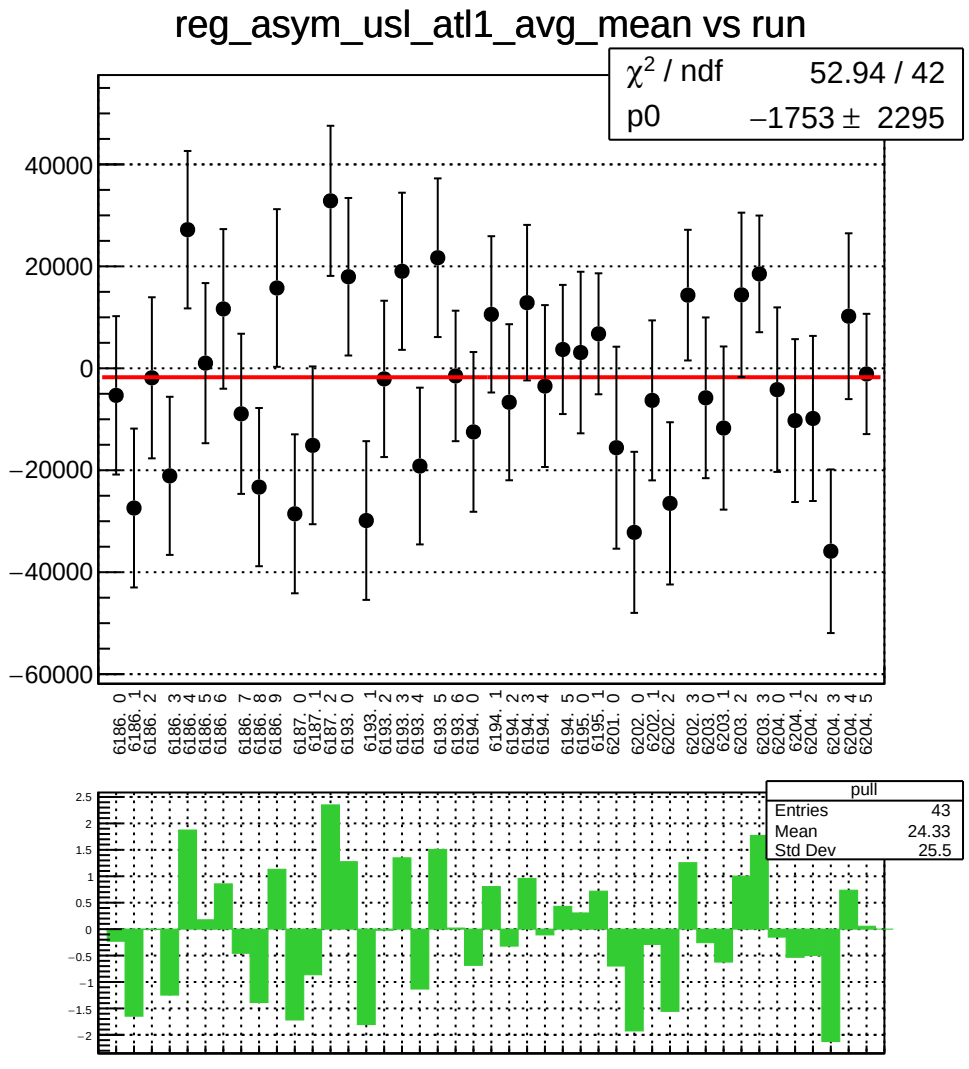

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.839e+04 / 42
p0 42.15 ± 0.04752
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

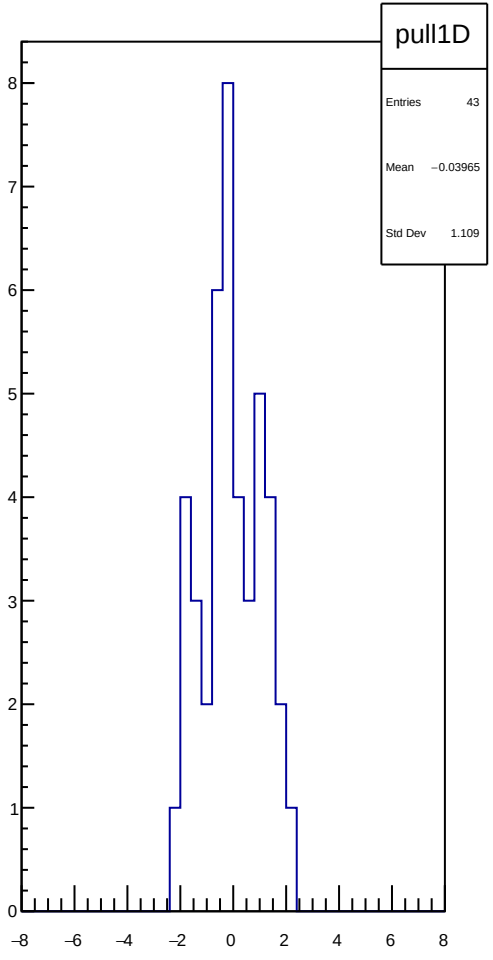

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.58 / 42
p0 0.01501 ± 0.0672
pull
Entries 43
Mean 456.1
Std Dev 0
pull1D
Entries 43
Mean 0.0032
Std Dev 1.085

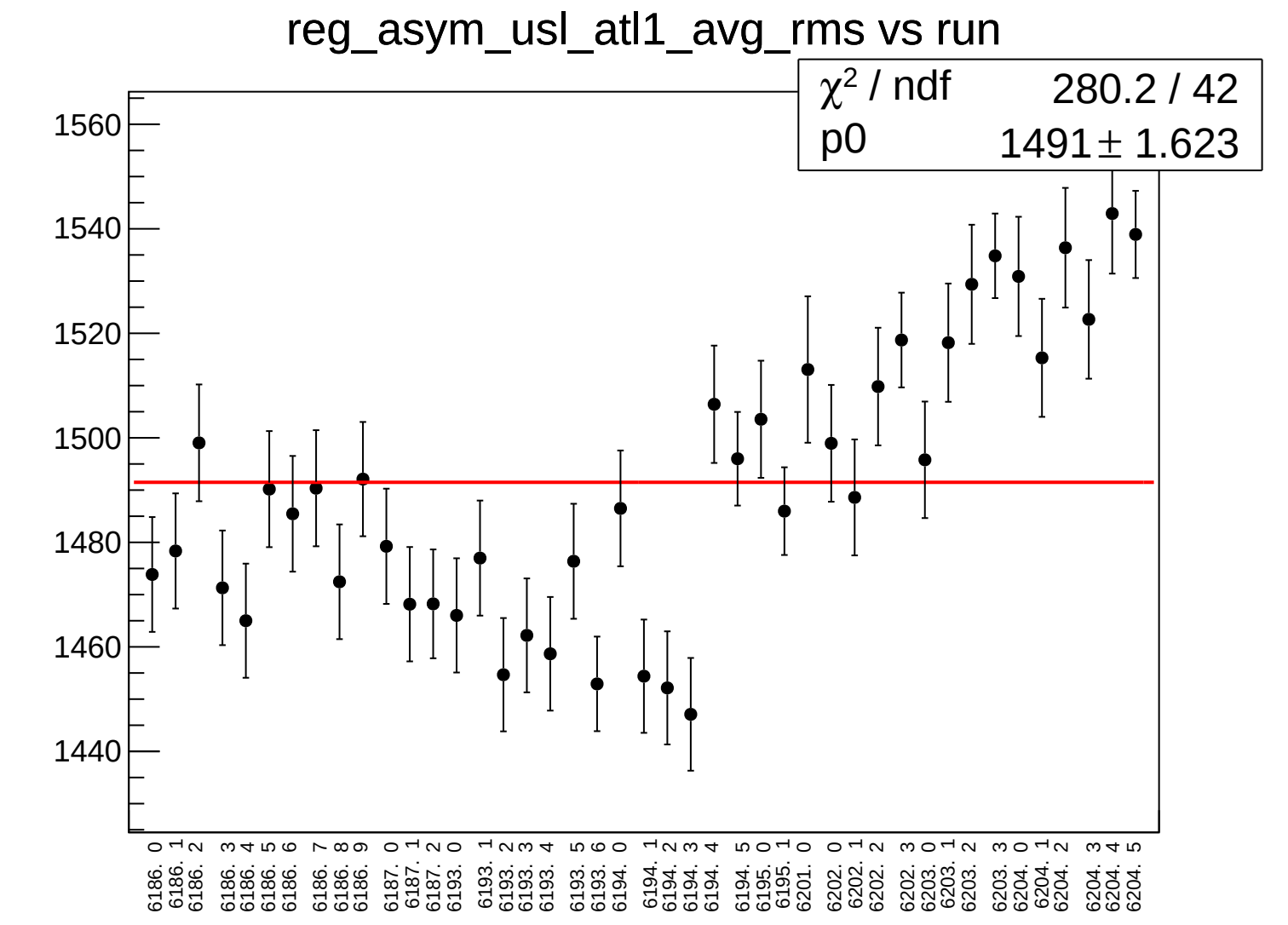

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.839e+04 / 42
p0 42.15 ± 0.04752
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

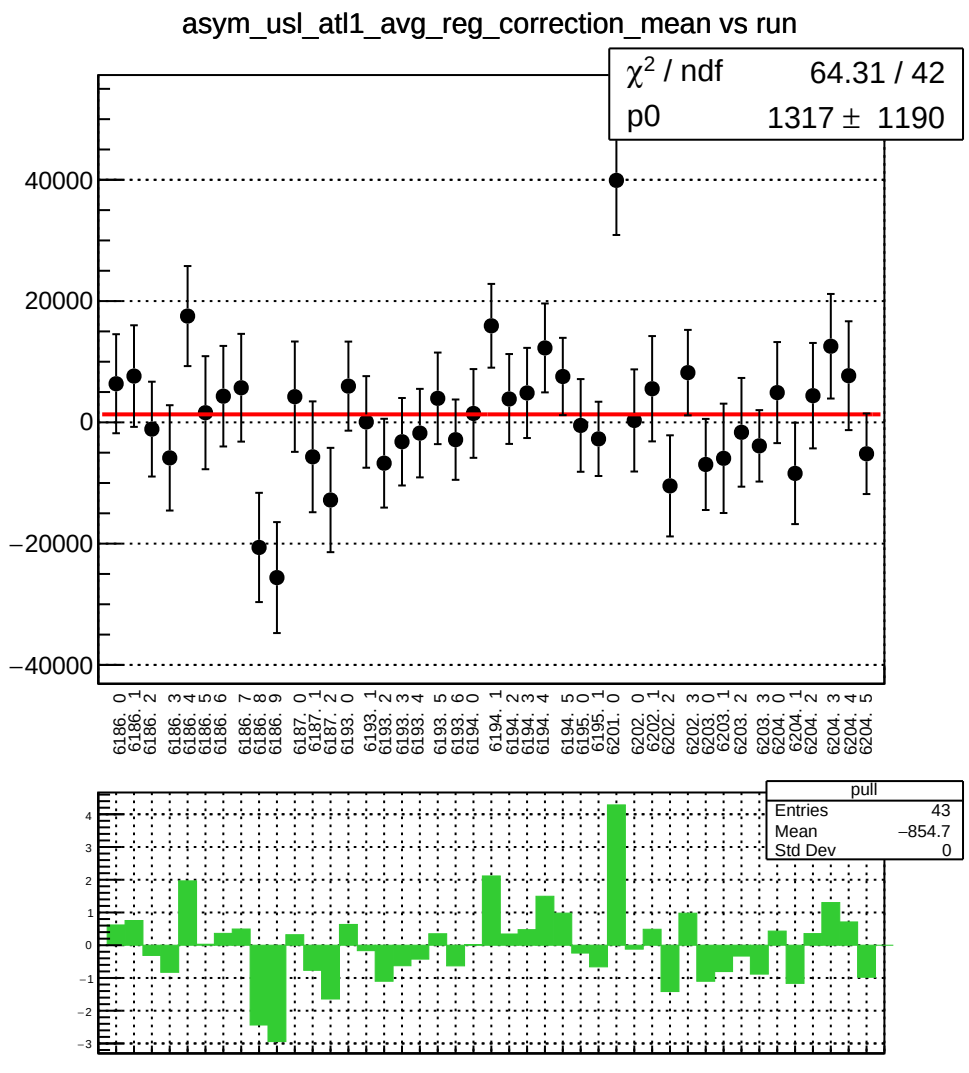

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 51.46 / 42
p0 2.249e−13 ± 1.058e−13
6
4
2
0
−2
−4
−6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −157.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.00567
Std Dev 1.094
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

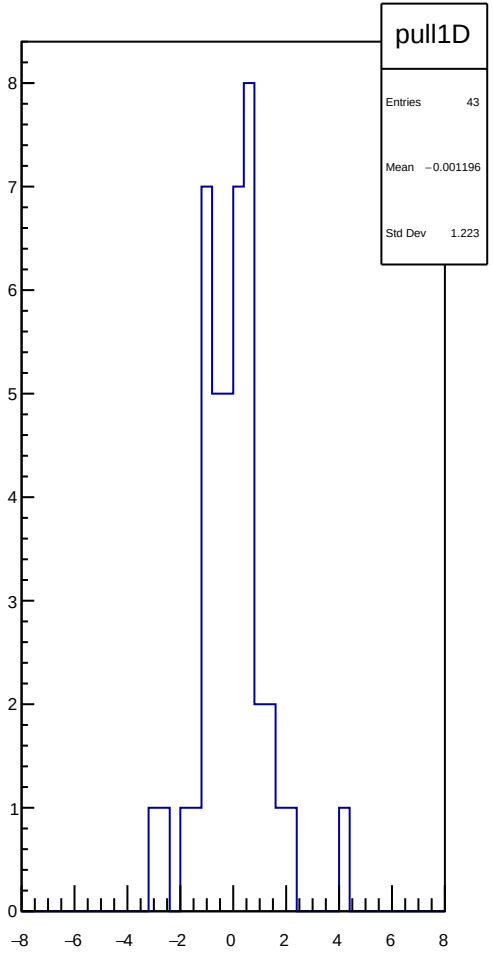

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.87e+05 / 42
p0 5.589e−11 ± 7.481e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

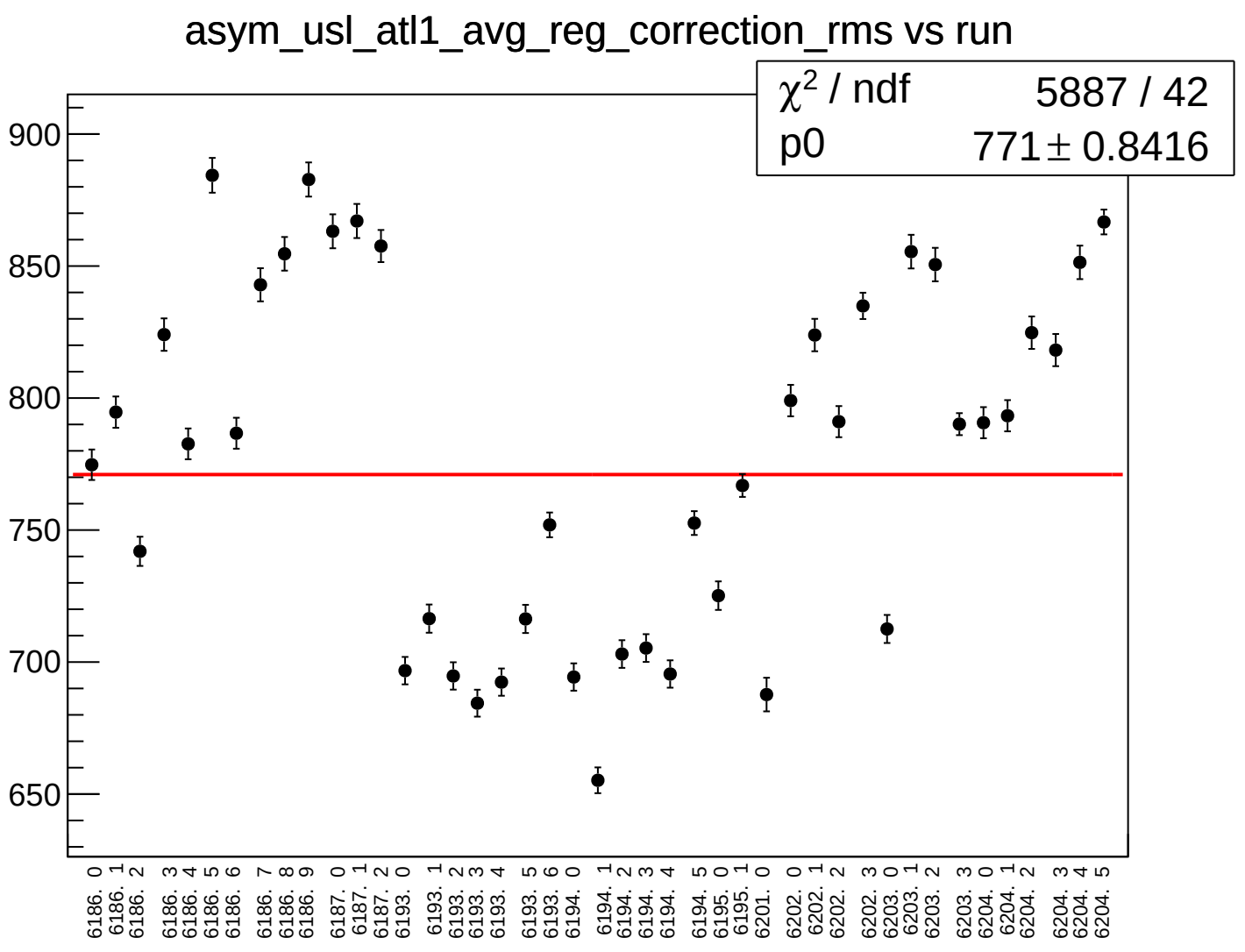

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 52.94 / 42
p0 −1753 ± 2295
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 24.33
Std Dev 25.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.03965
Std Dev 1.109
8
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 280.2 / 42
p0 1491 ± 1.623
1560
1540
1520
1500
1480
1460
1440
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 64.31 / 42
p0 1317 ± 1190
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −854.7
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.001196
Std Dev 1.223
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 5887 / 42
p0 771 ± 0.8416
900
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
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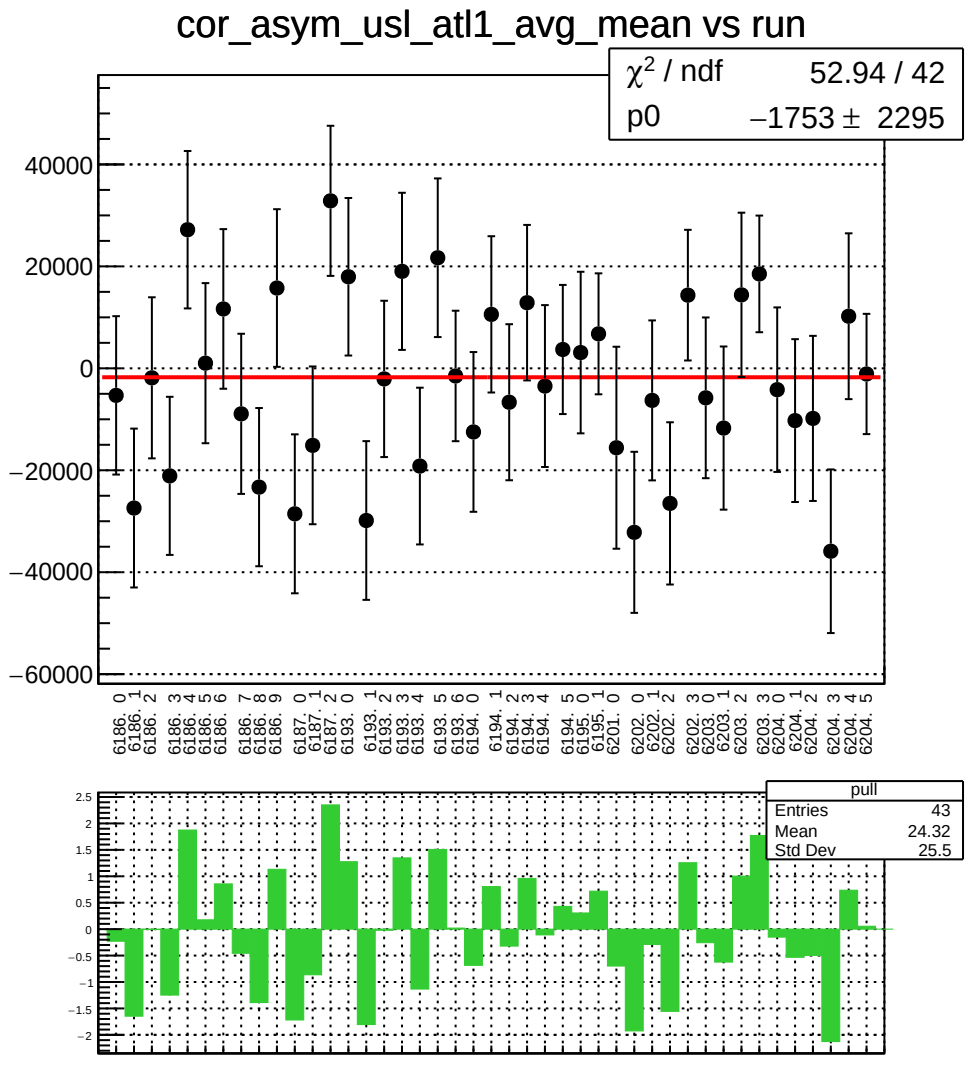
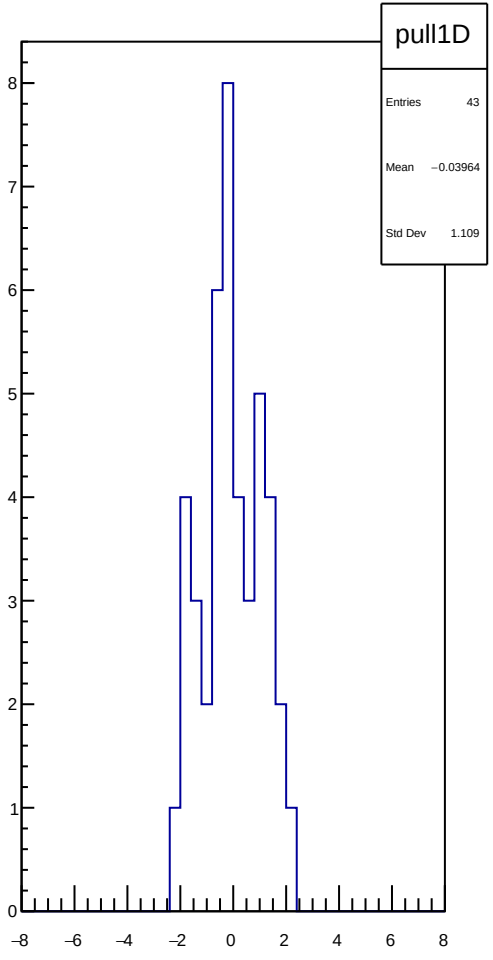
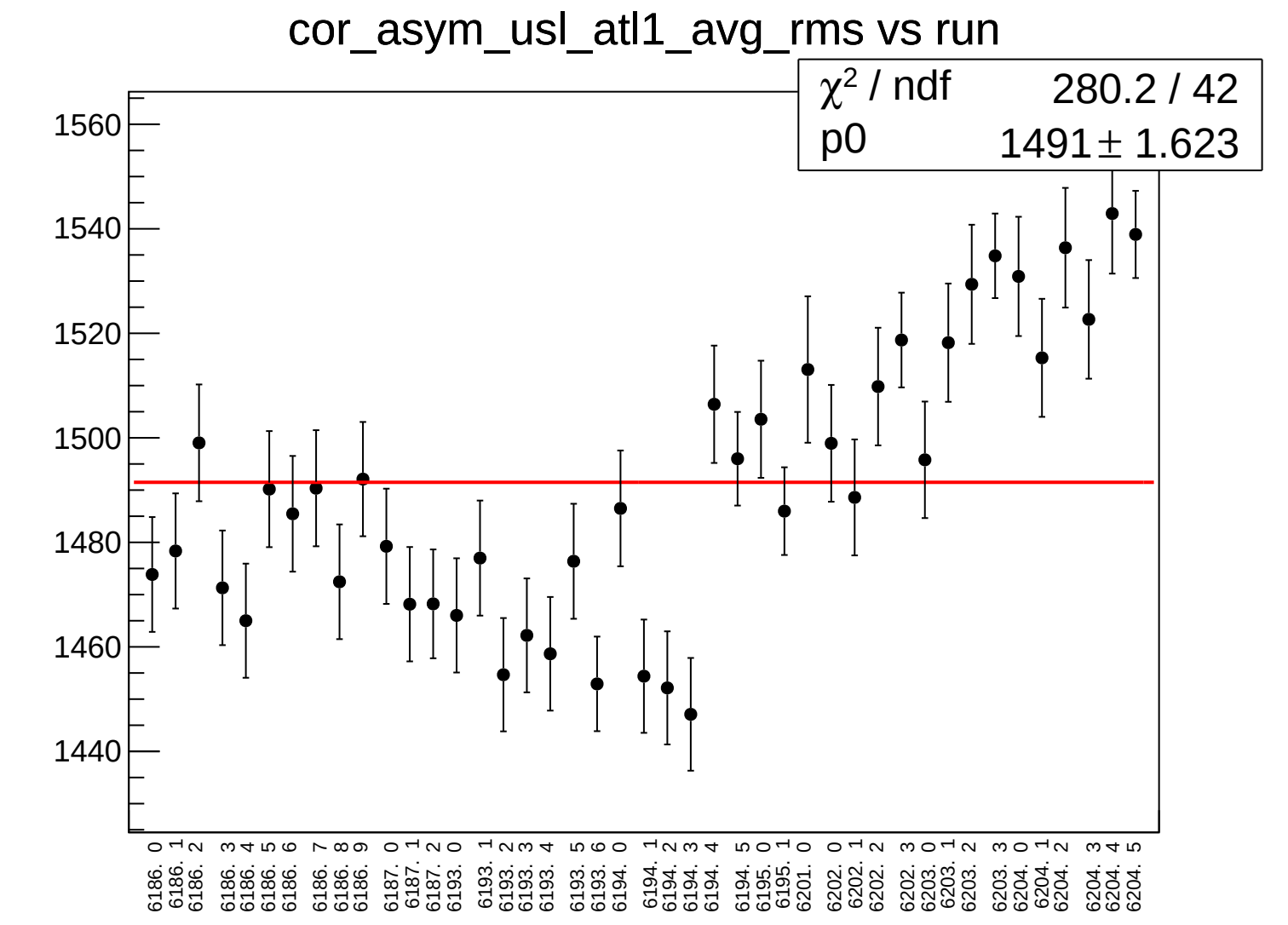
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 52.94 / 42
p0 −1753 ± 2295
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 24.32
Std Dev 25.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.03964
Std Dev 1.109
8
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 280.2 / 42
p0 1491 ± 1.623
1560
1540
1520
1500
1480
1460
1440
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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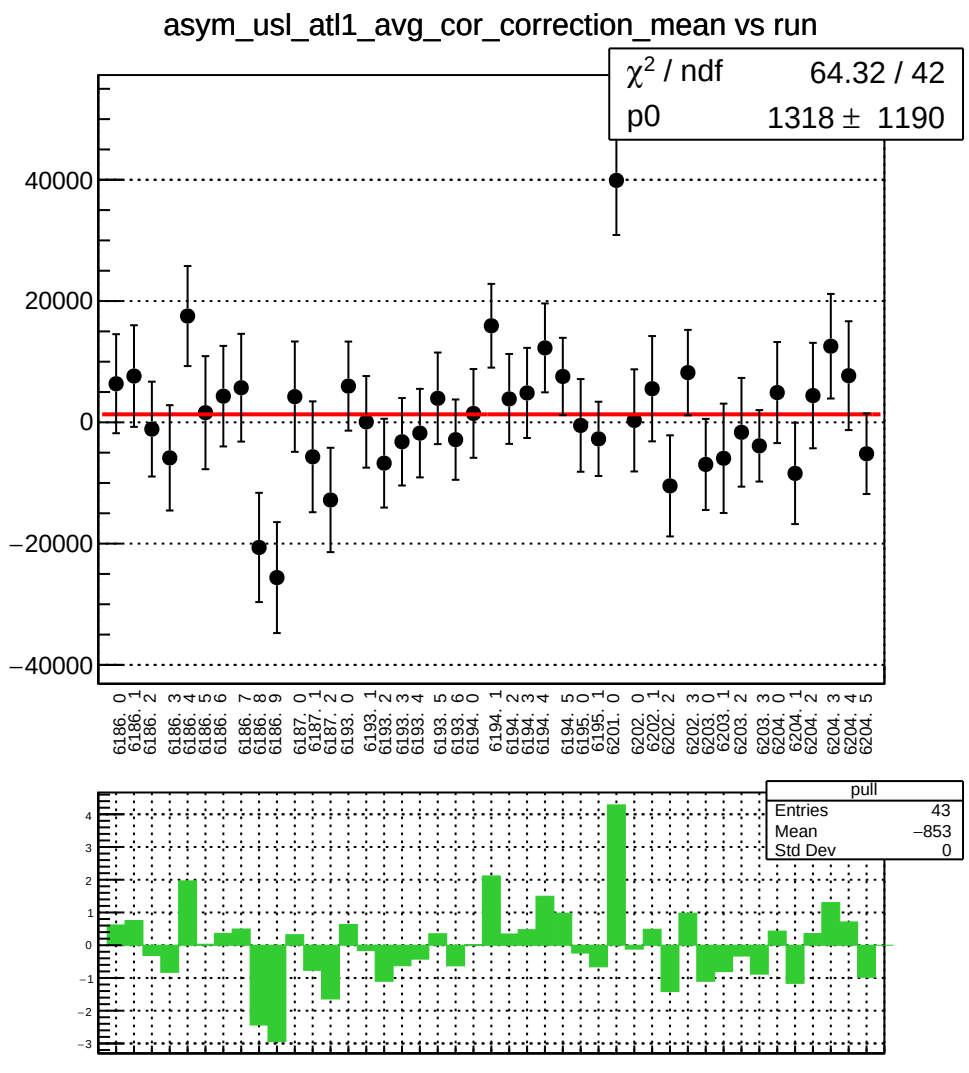
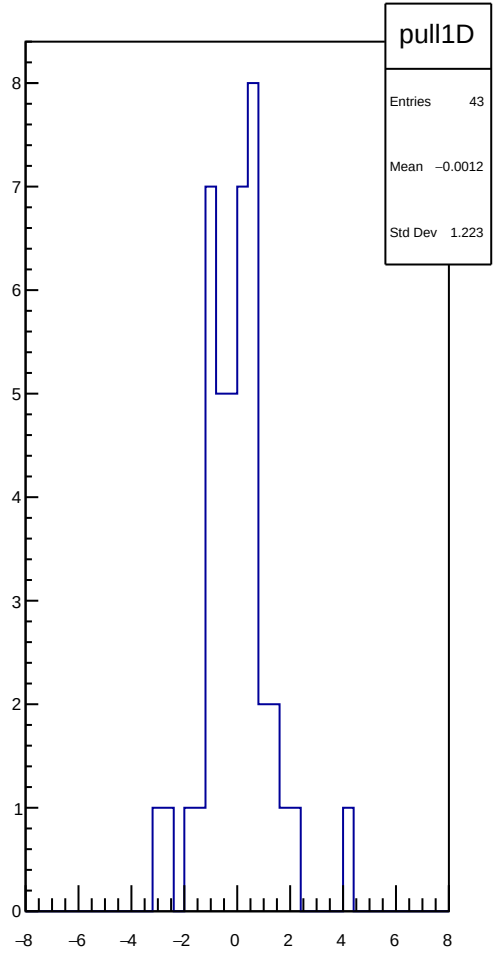
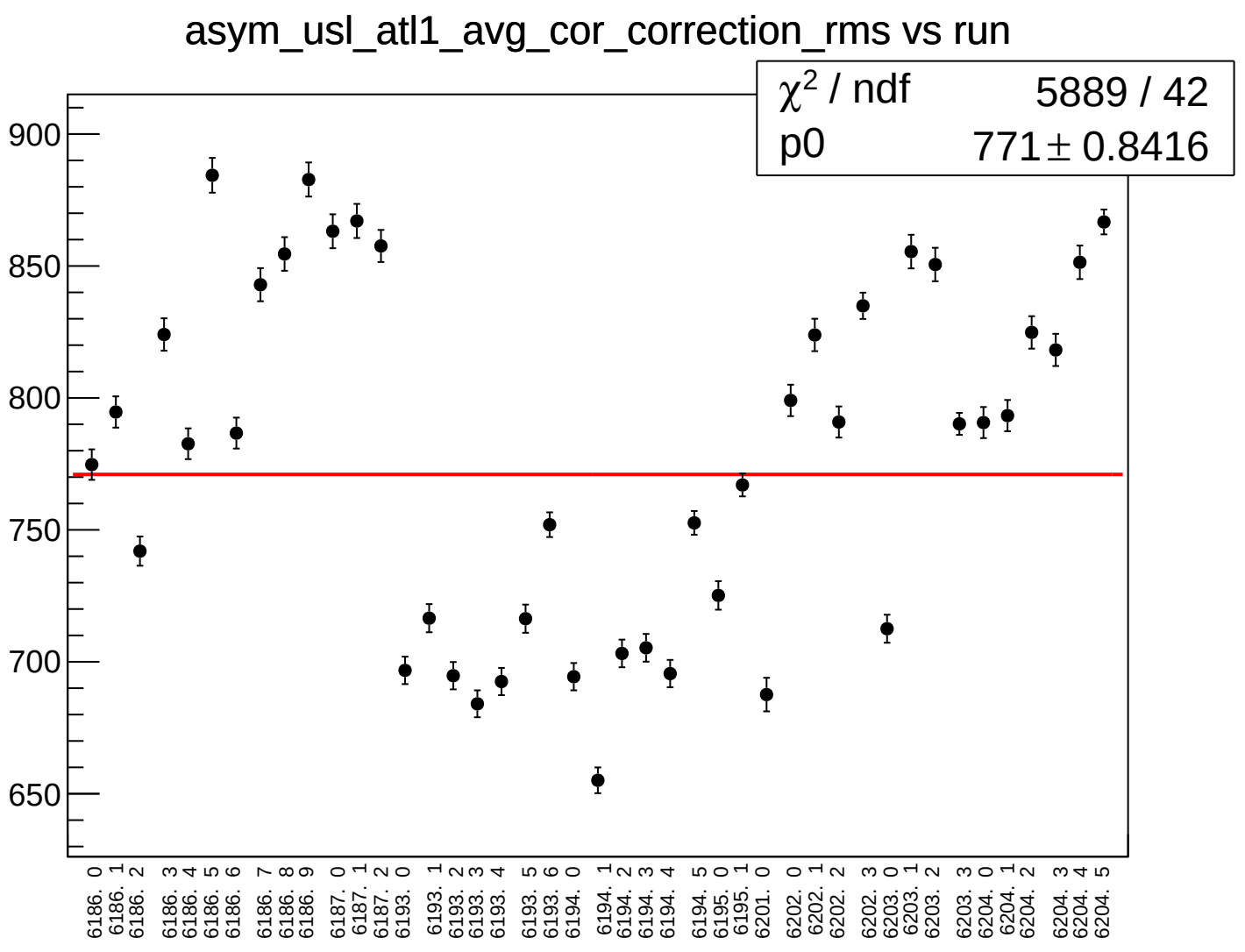
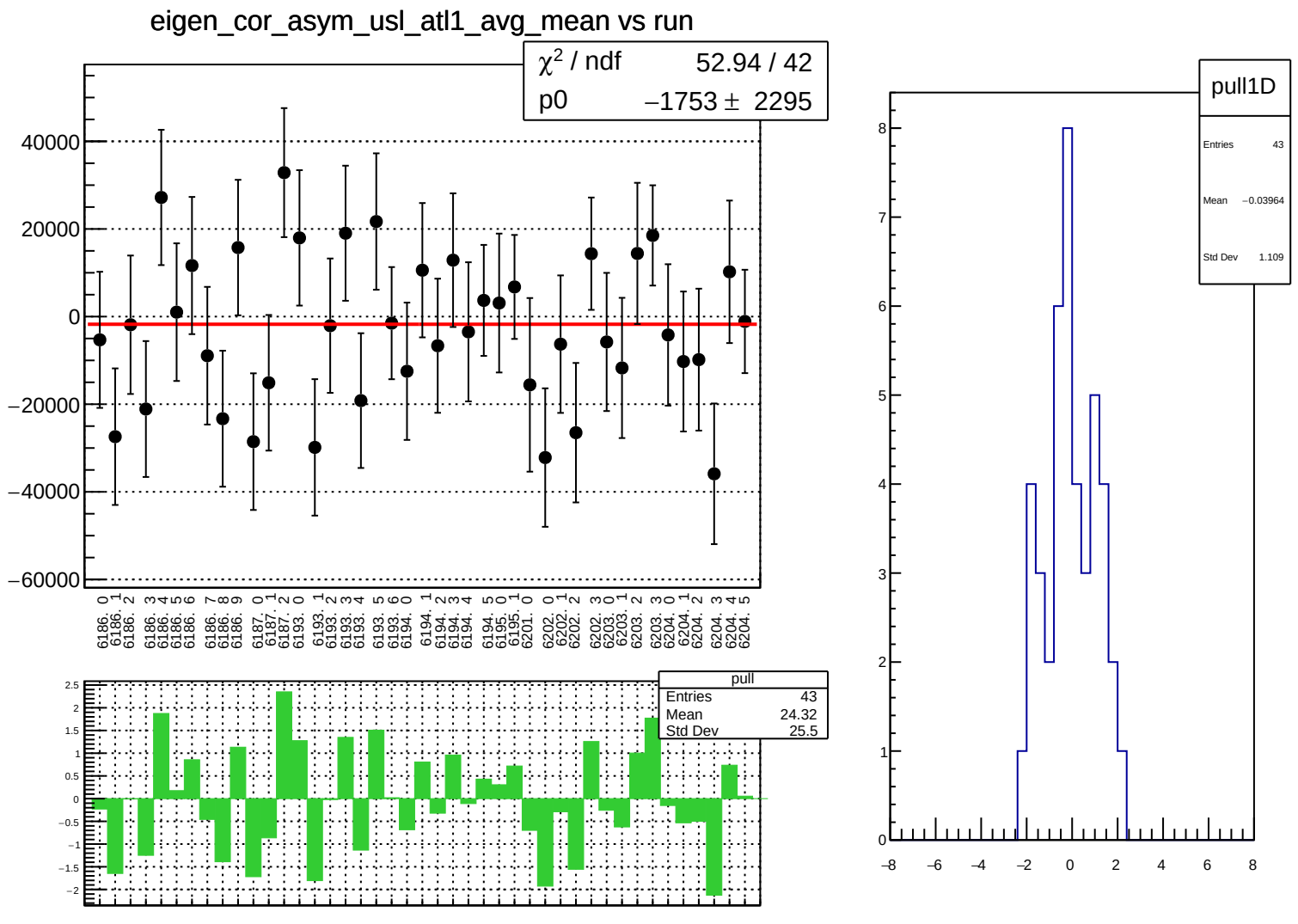
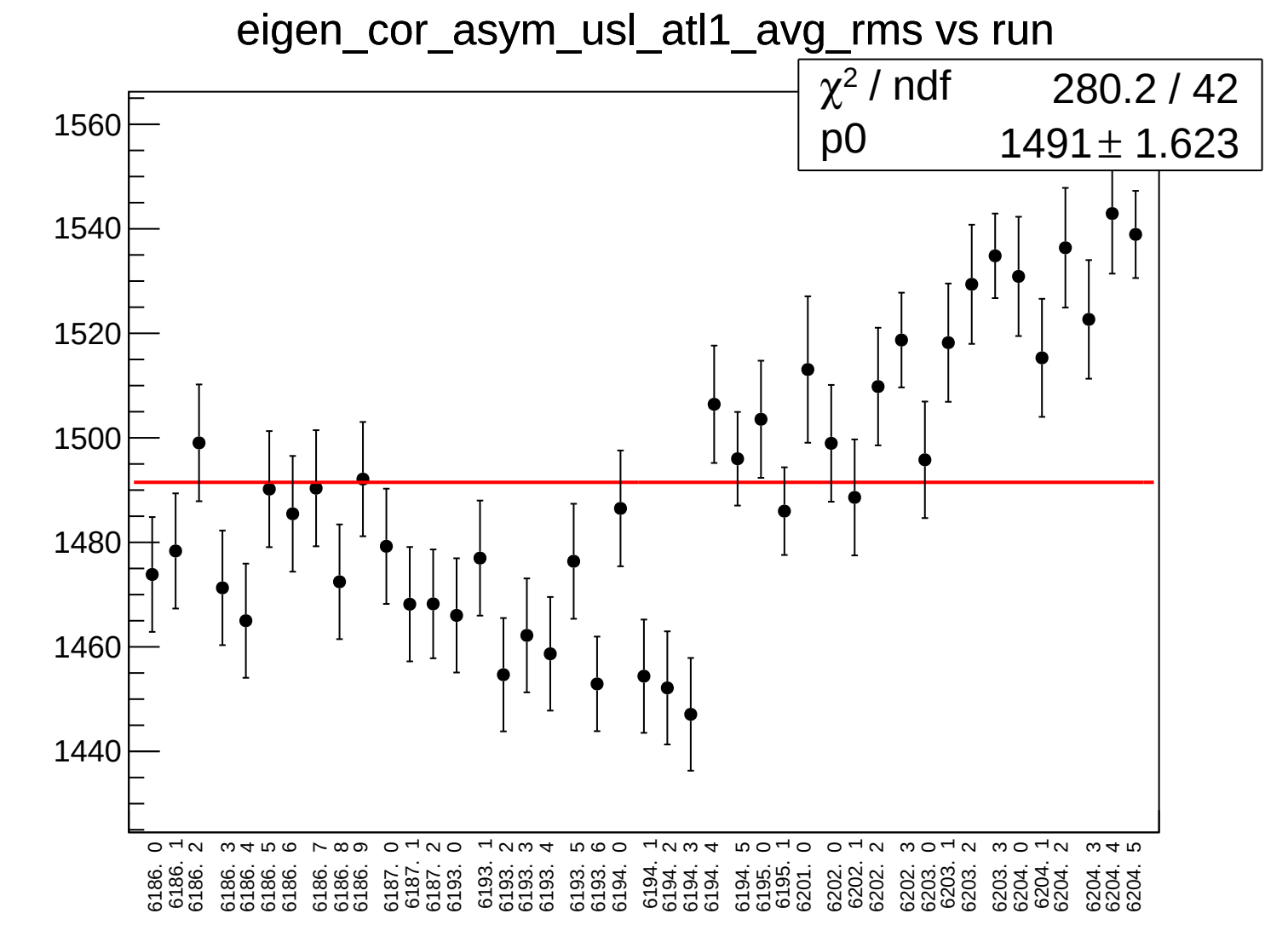
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 64.32 / 42
p0 1318 ± 1190
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −853
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.0012
Std Dev 1.223
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 5889 / 42
p0 771 ± 0.8416
900
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 52.94 / 42
p0 −1753 ± 2295
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 24.32
Std Dev 25.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03964
Std Dev 1.109
8
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 280.2 / 42
p0 1491 ± 1.623
1560
1540
1520
1500
1480
1460
1440
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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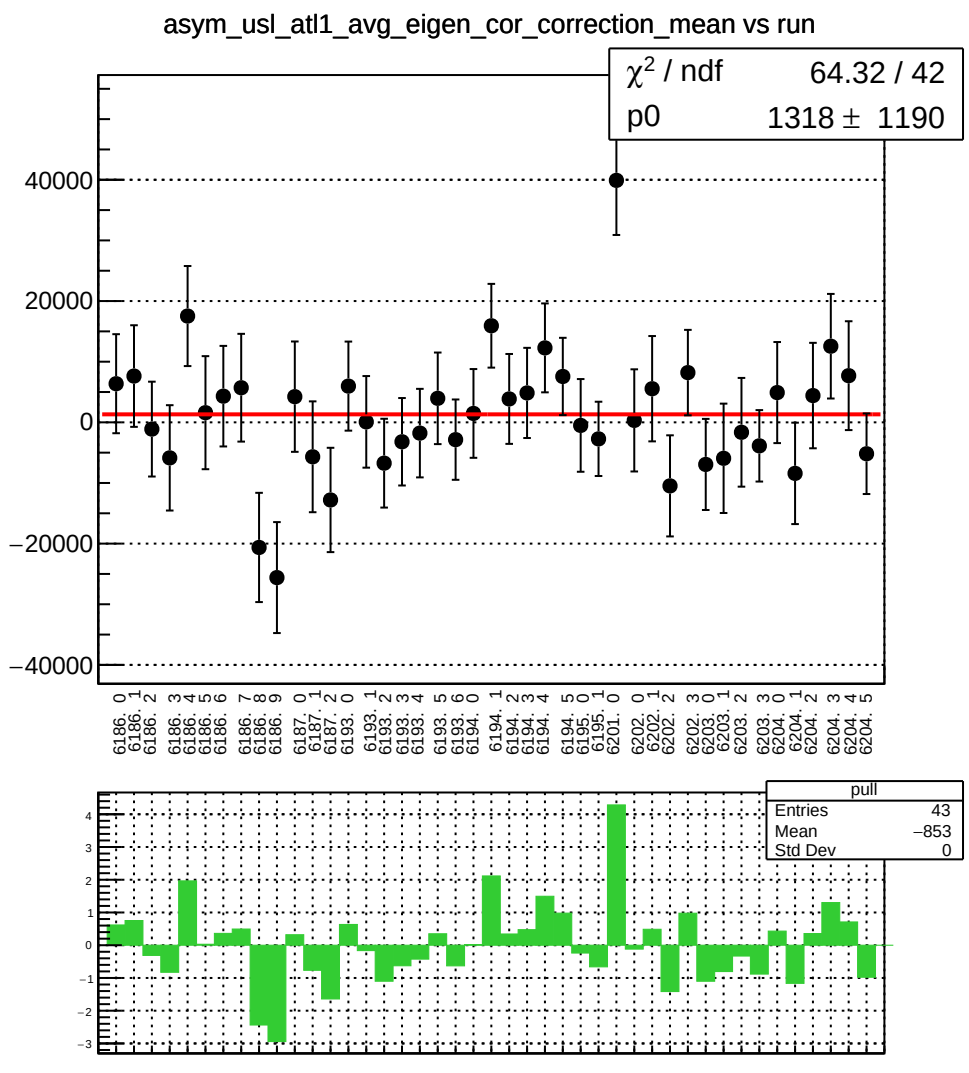
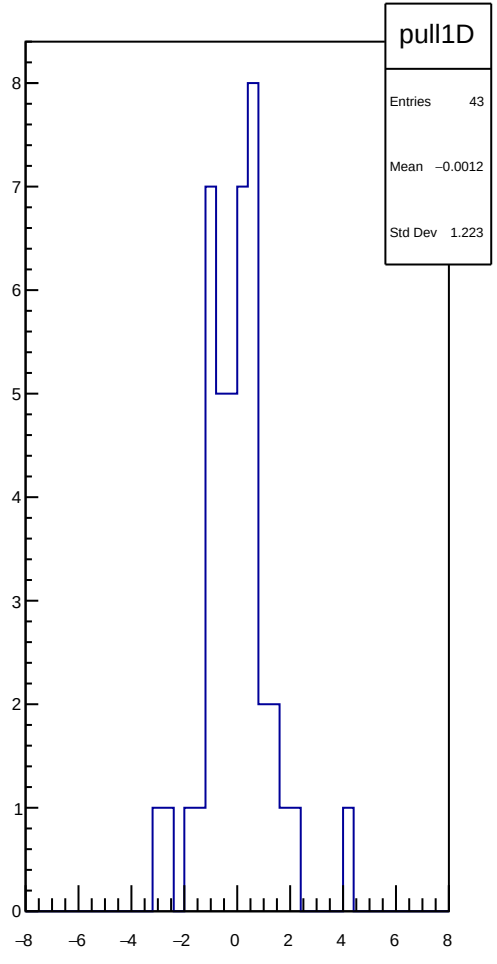
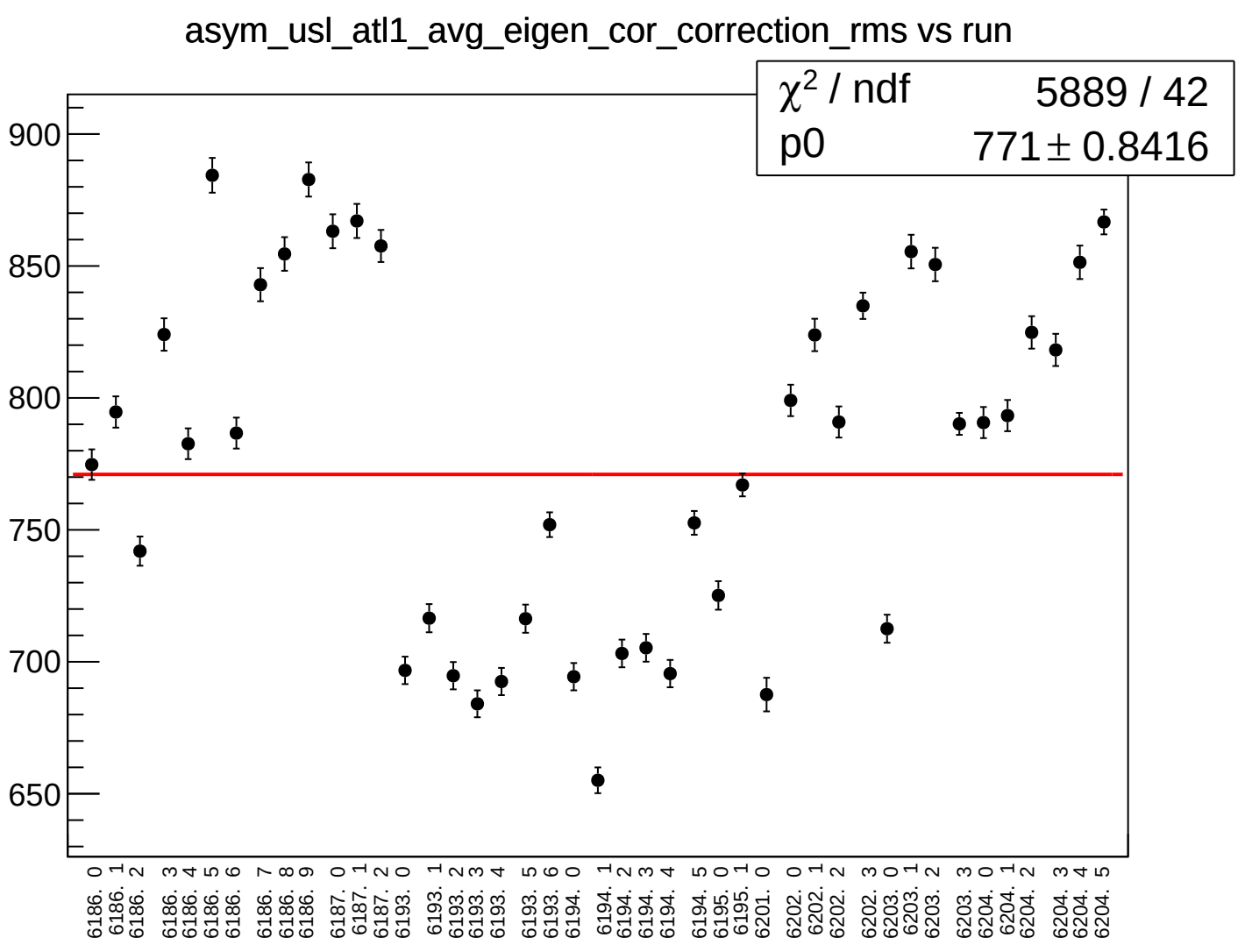
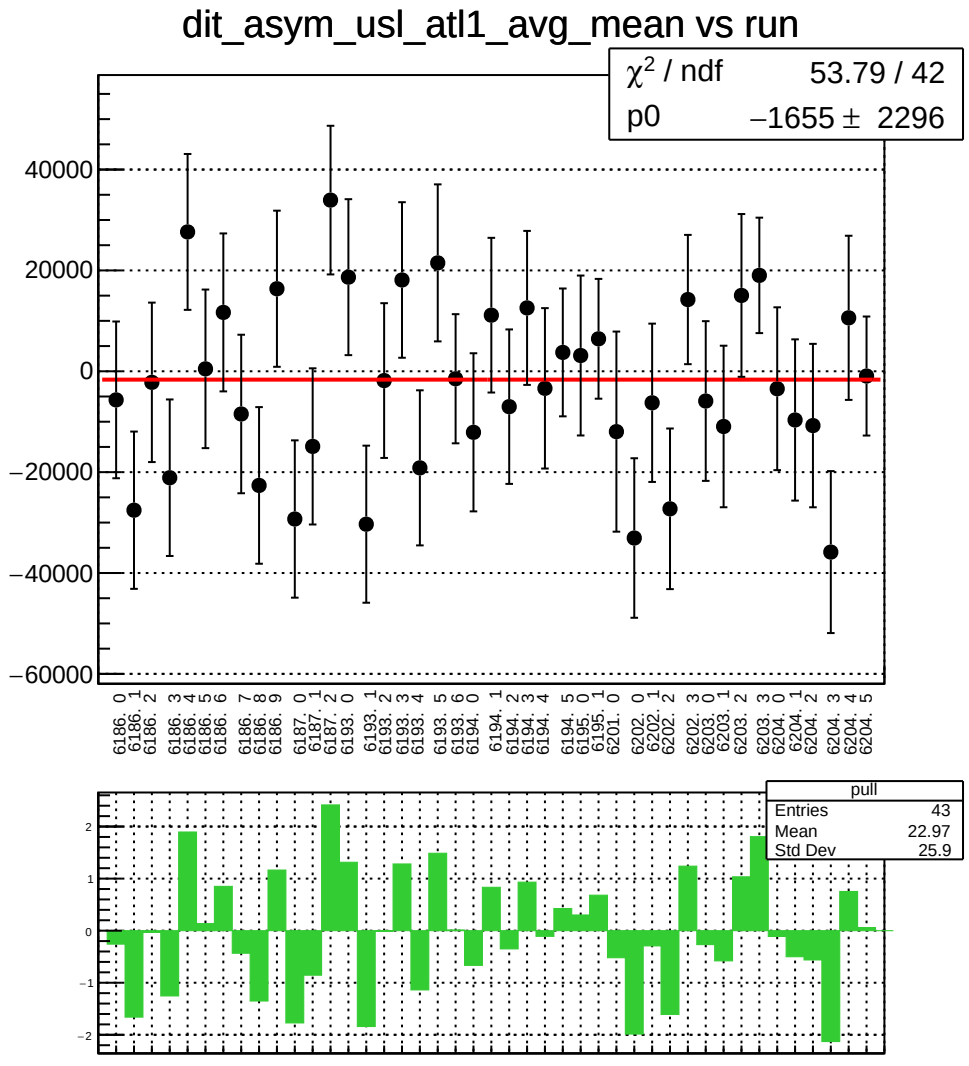
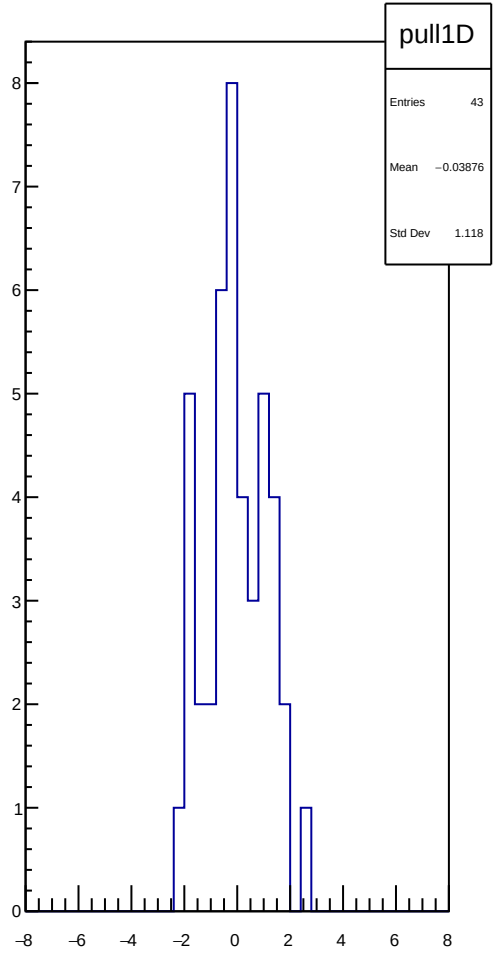
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

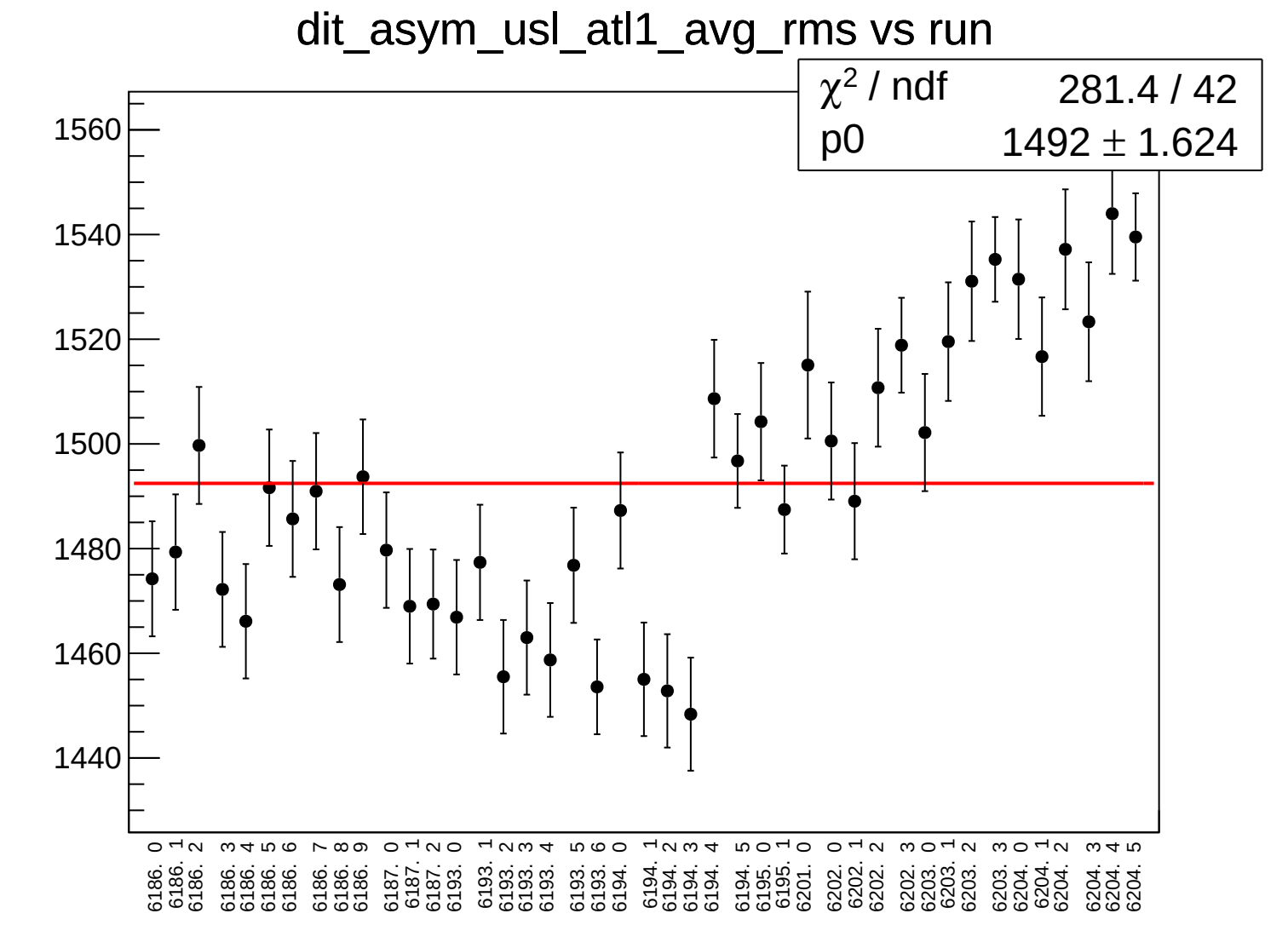

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 64.32 / 42
p0 1318 ± 1190
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −853
Std Dev 0
4
3
2
1
0
−1
−2
−3

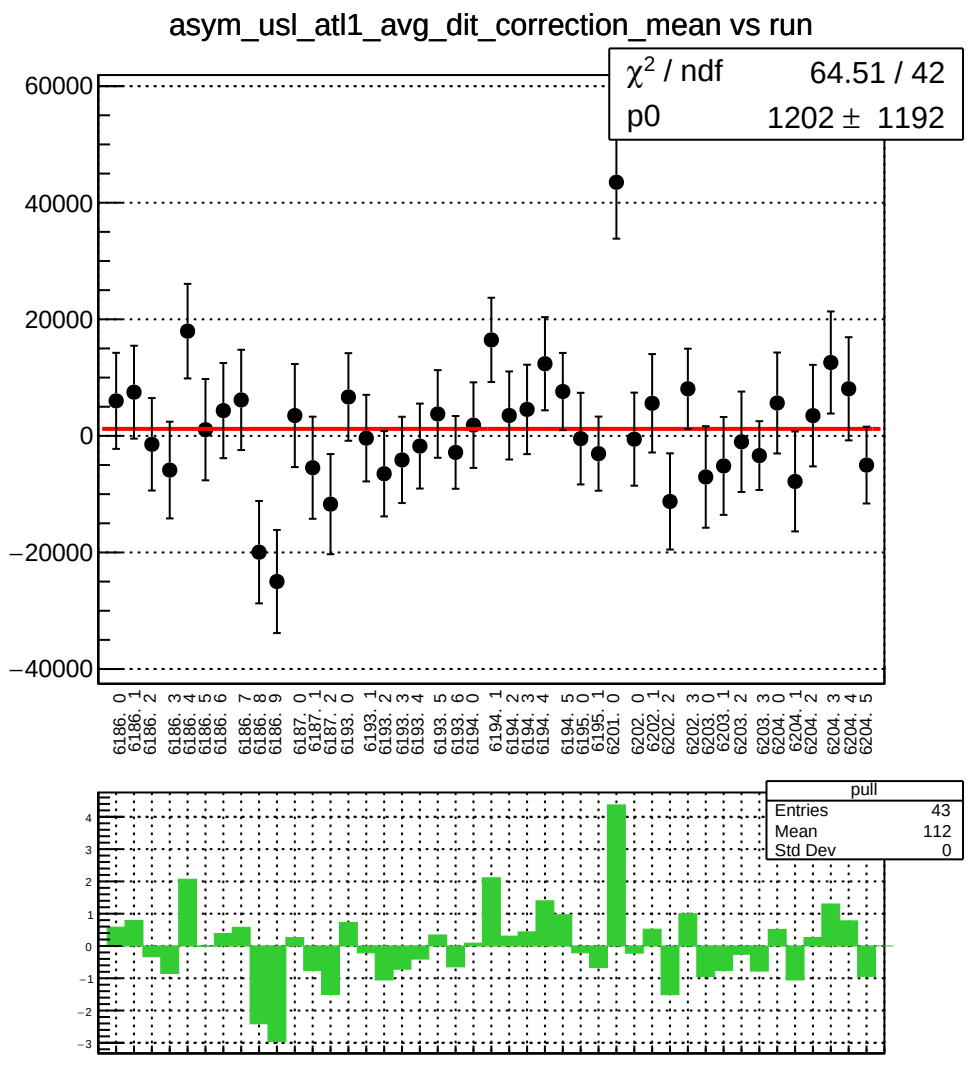

pull1D
Entries 43
Mean −0.0012
Std Dev 1.223
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

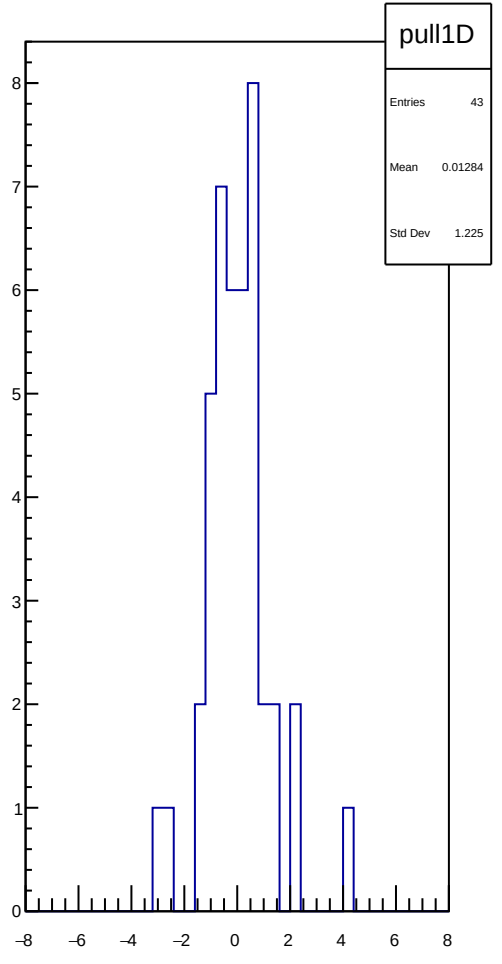

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 5889 / 42
p0 771 ± 0.8416
900
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

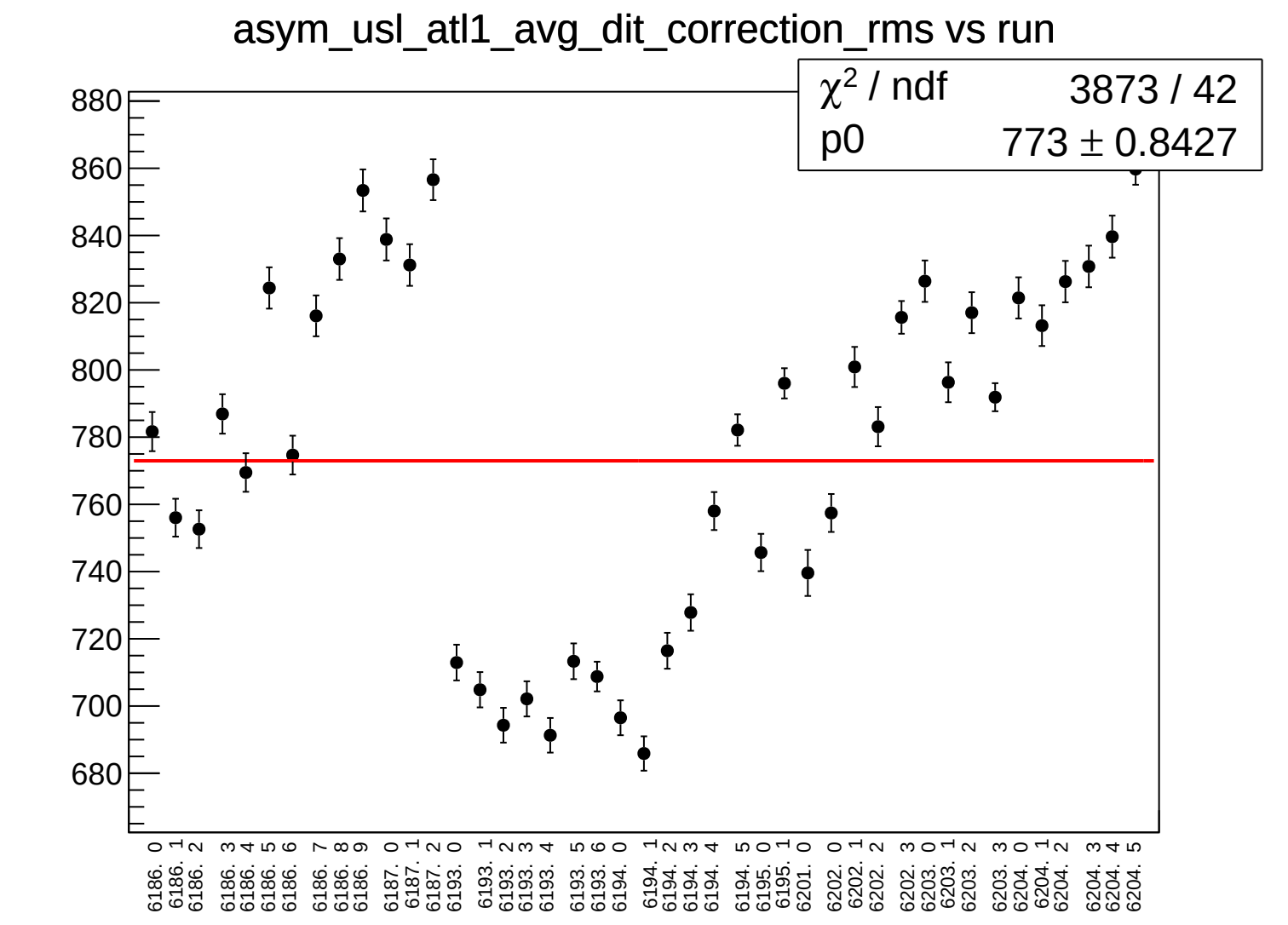

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 53.79 / 42
p0 −1655 ± 2296
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 22.97
Std Dev 25.9
2
1
0
−1
−2

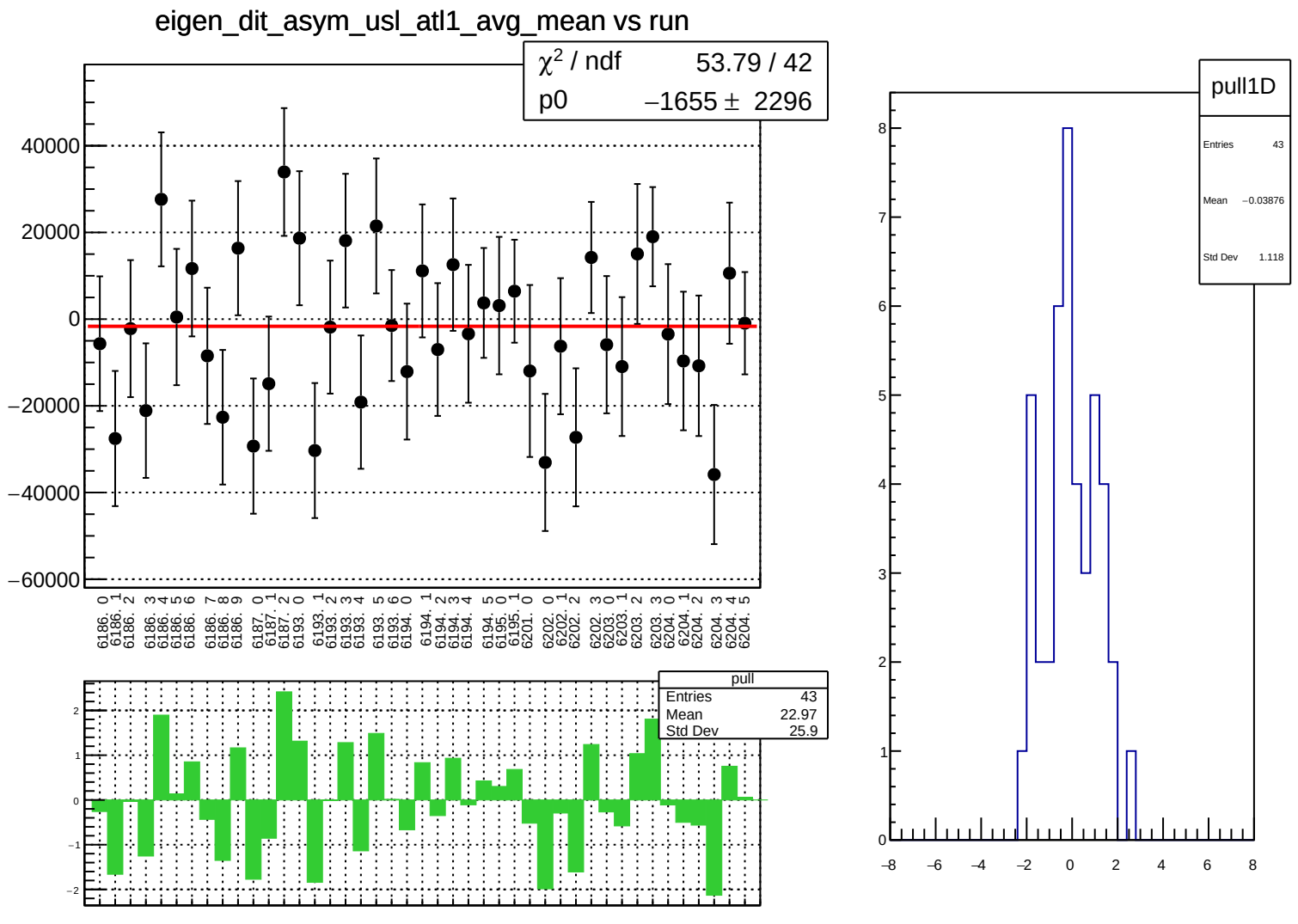

pull1D
Entries 43
Mean −0.03876
Std Dev 1.118
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

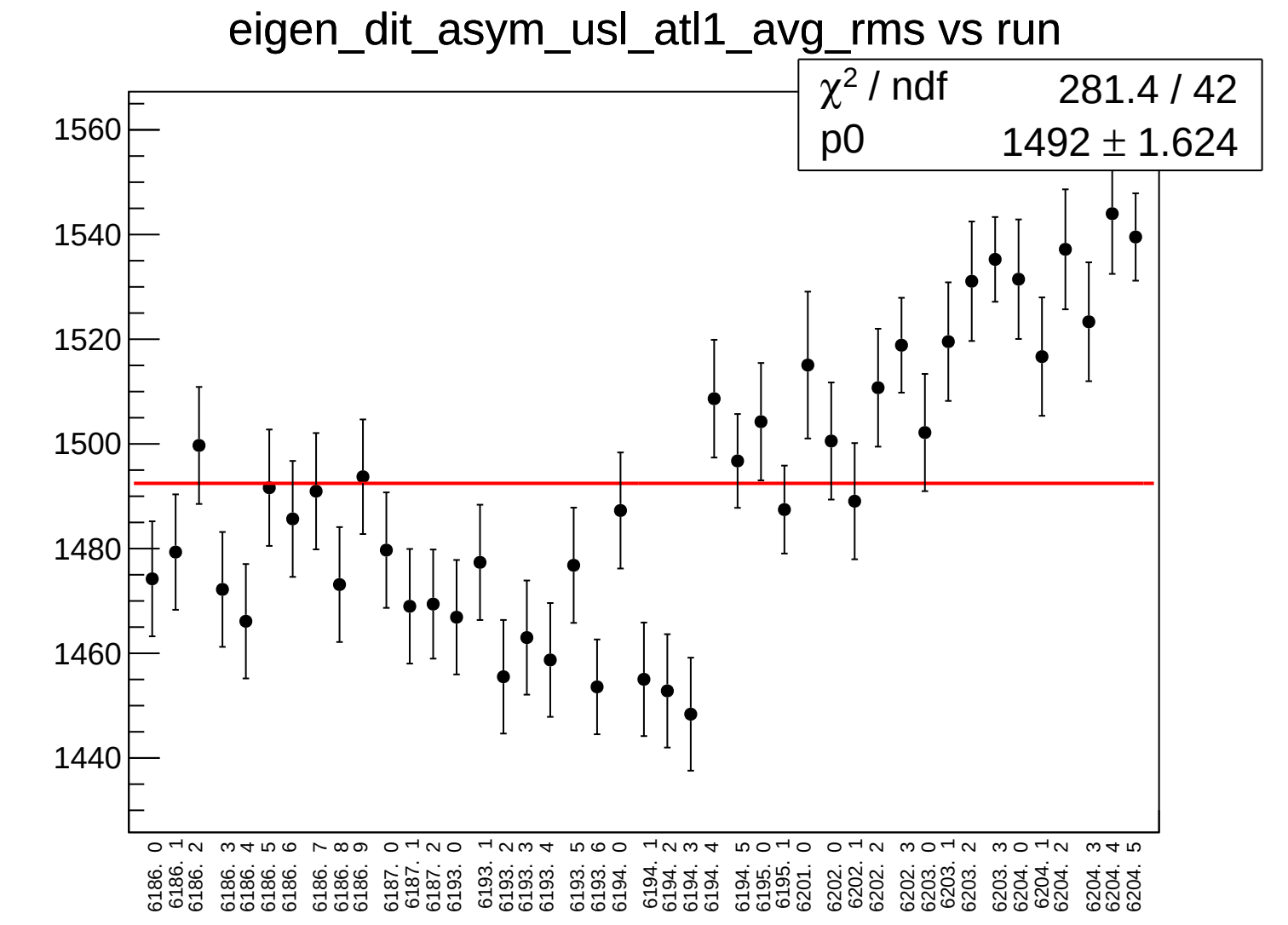

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 281.4 / 42
p0 1492 ± 1.624
1560
1540
1520
1500
1480
1460
1440
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

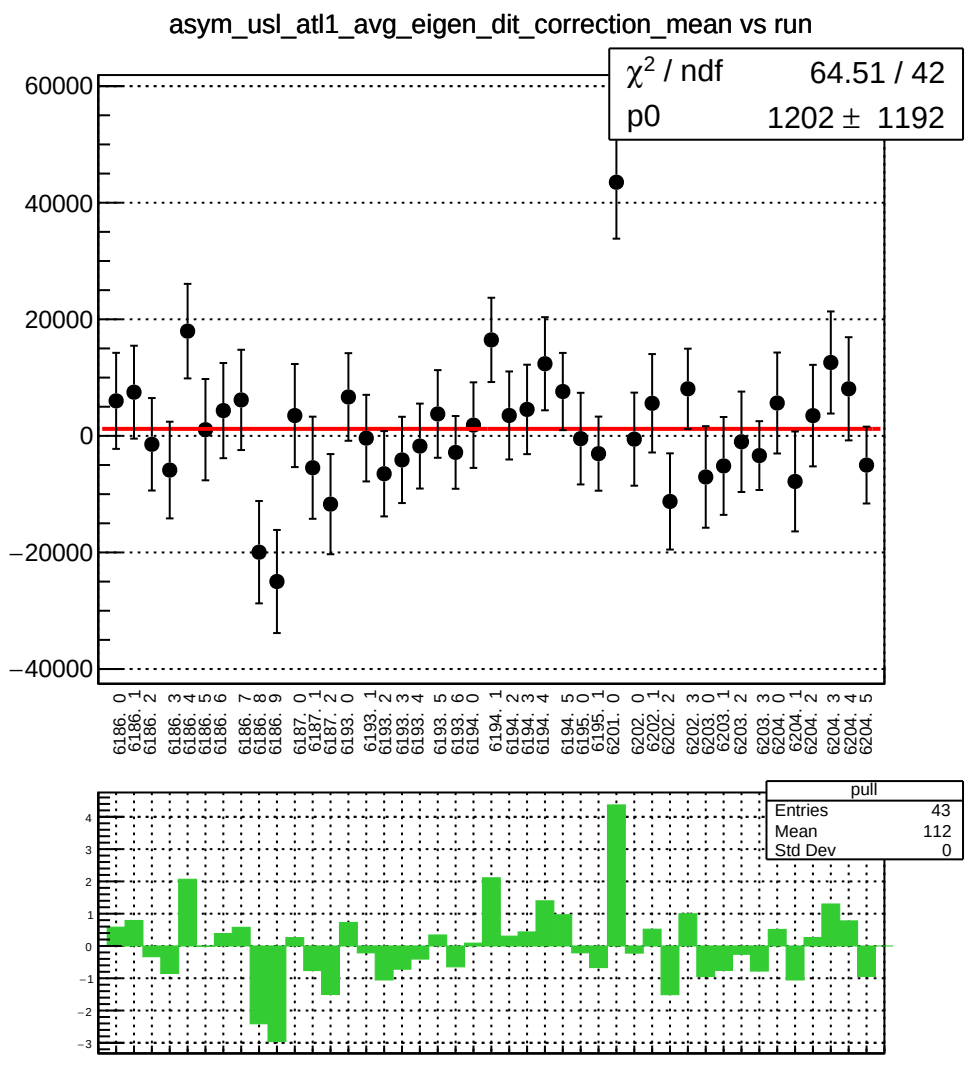

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 64.51 / 42
p0 1202 ± 1192
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 112
Std Dev 0
4
3
2
1
0
−1
−2
−3

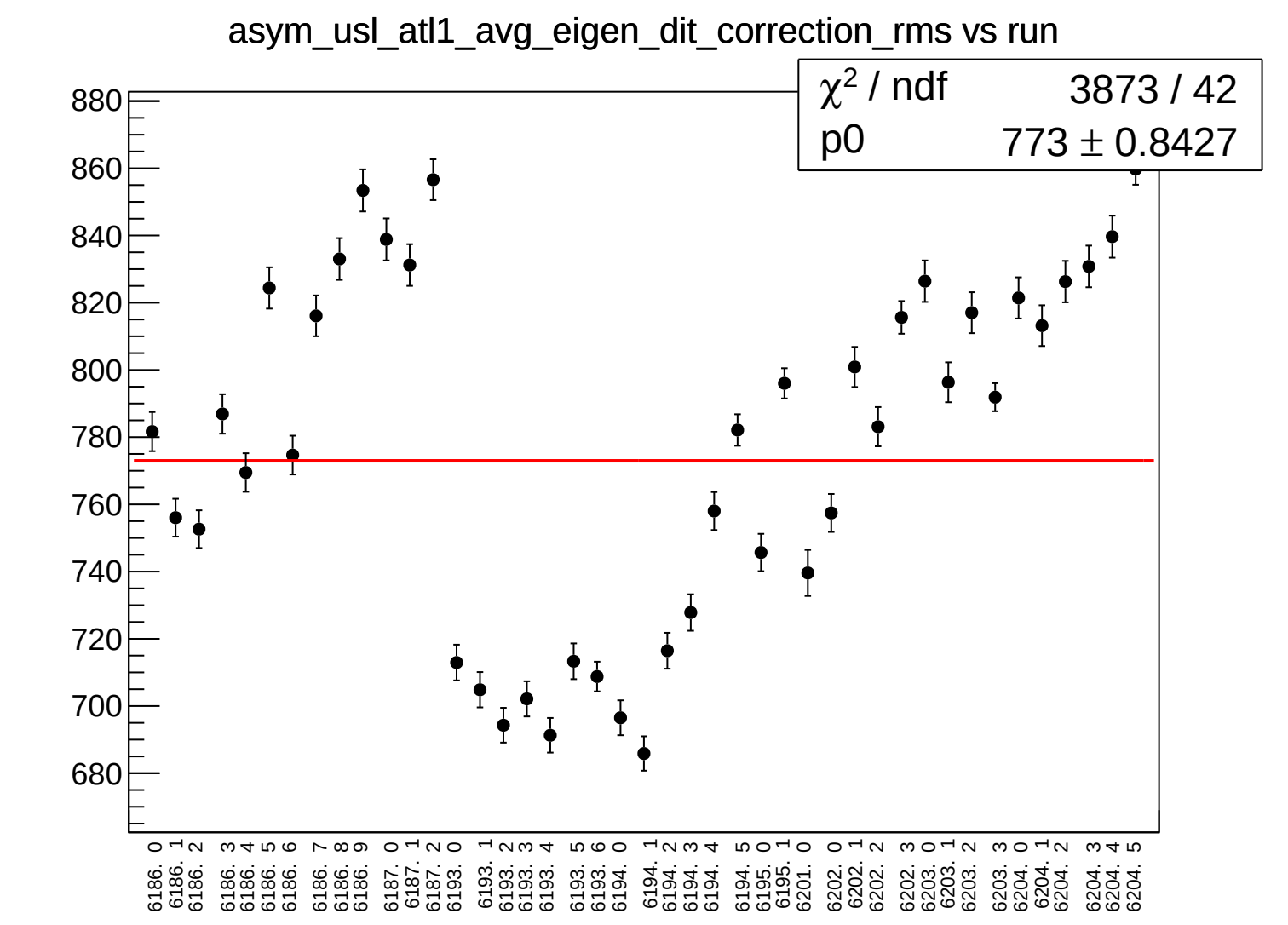

pull1D
Entries 43
Mean 0.01284
Std Dev 1.225
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

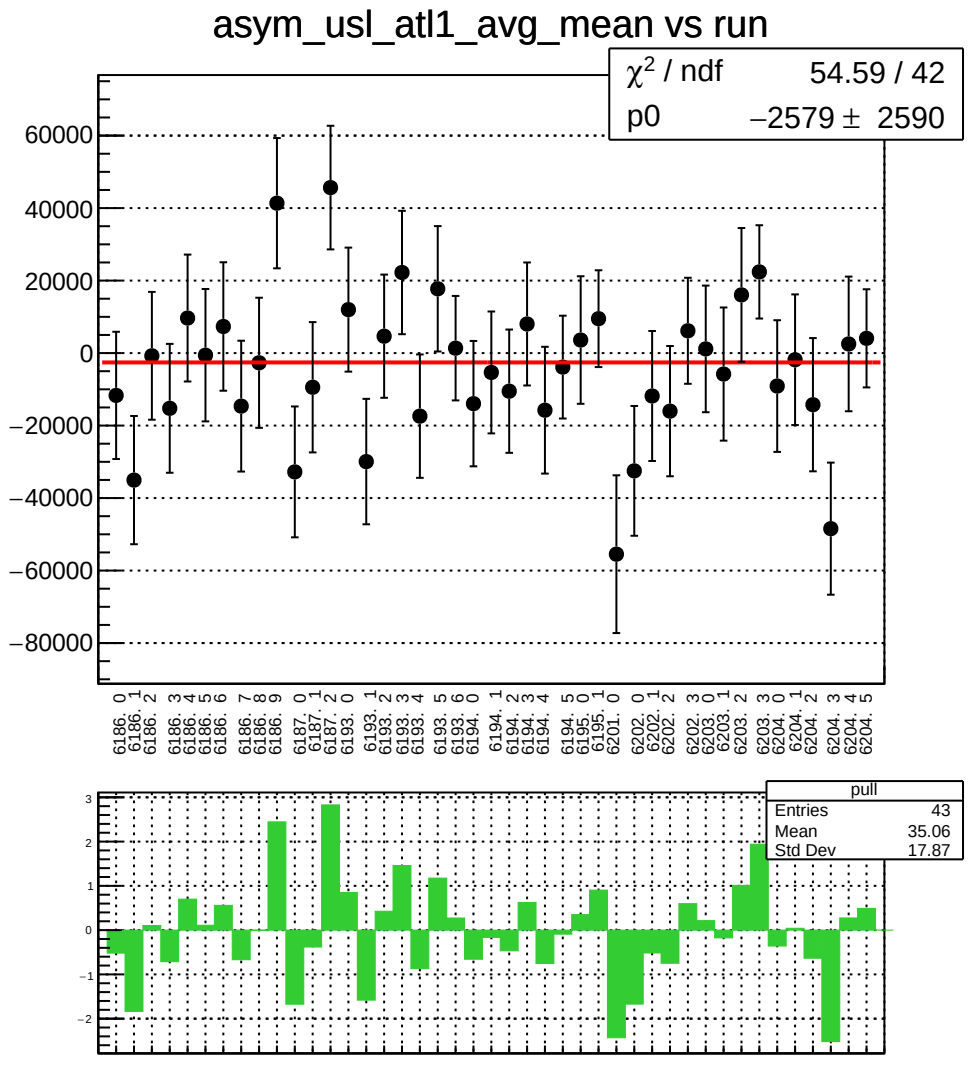

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 3873 / 42
p0 773 ± 0.8427
880
860
840
820
800
780
760
740
720
700
680
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

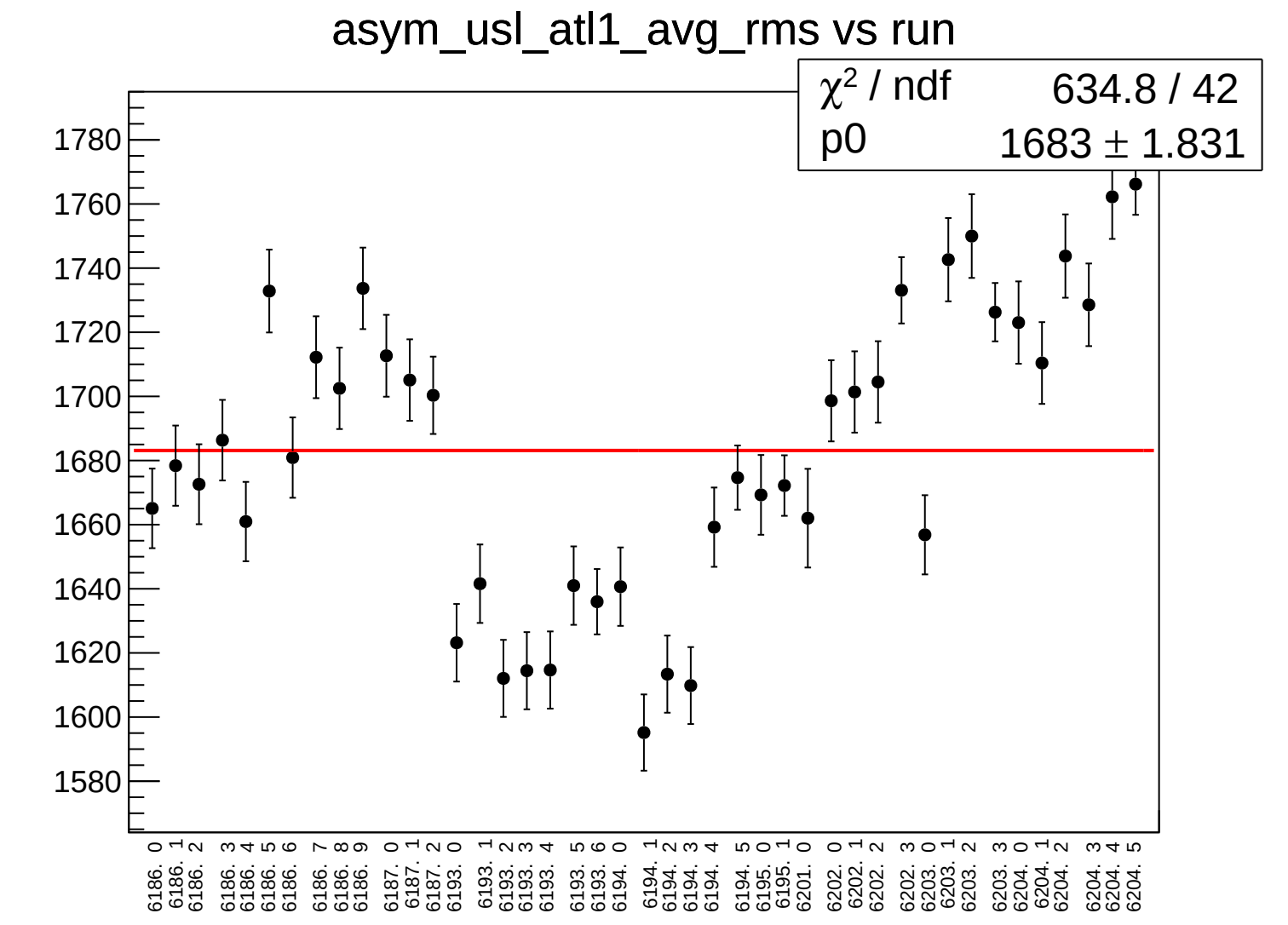

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 53.79 / 42
p0 −1655 ± 2296
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 22.97
Std Dev 25.9
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03876
Std Dev 1.118
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

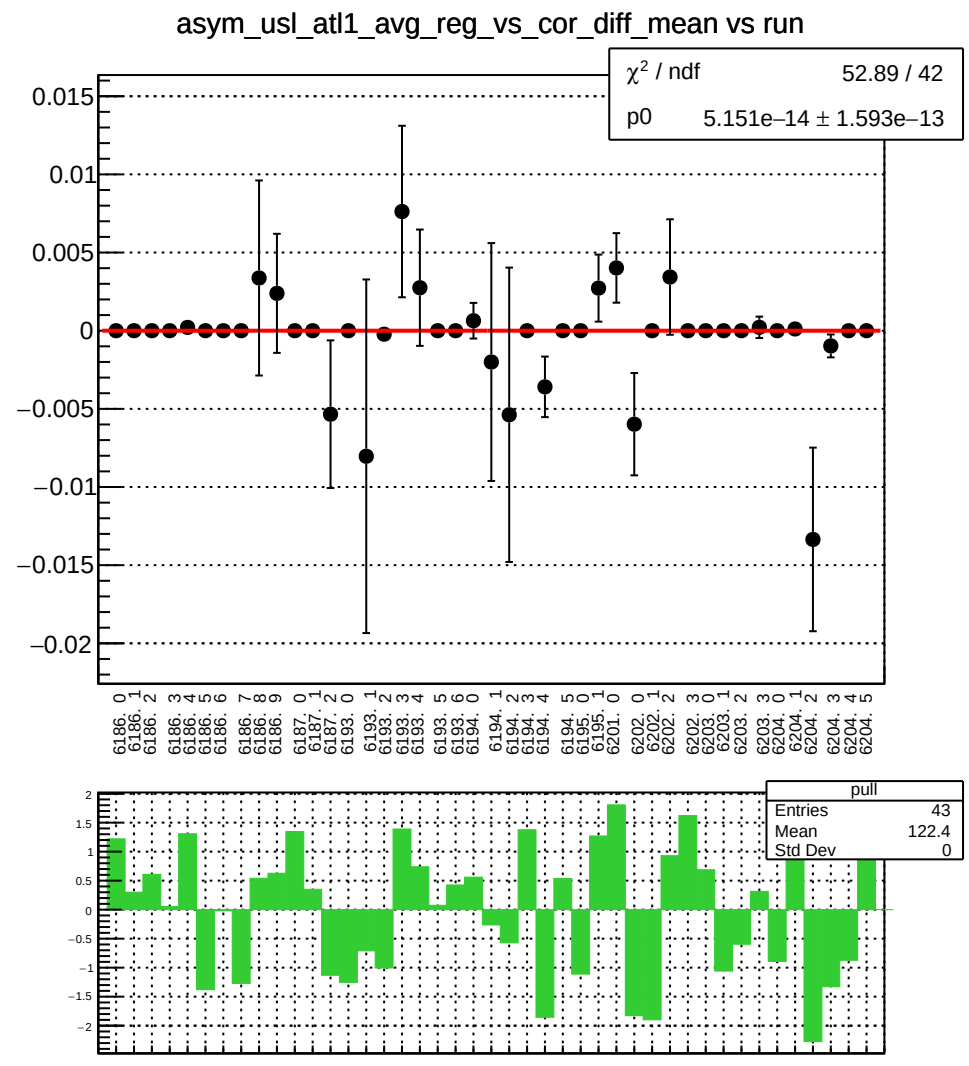

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 281.4 / 42
p0 1492 ± 1.624
1560
1540
1520
1500
1480
1460
1440
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

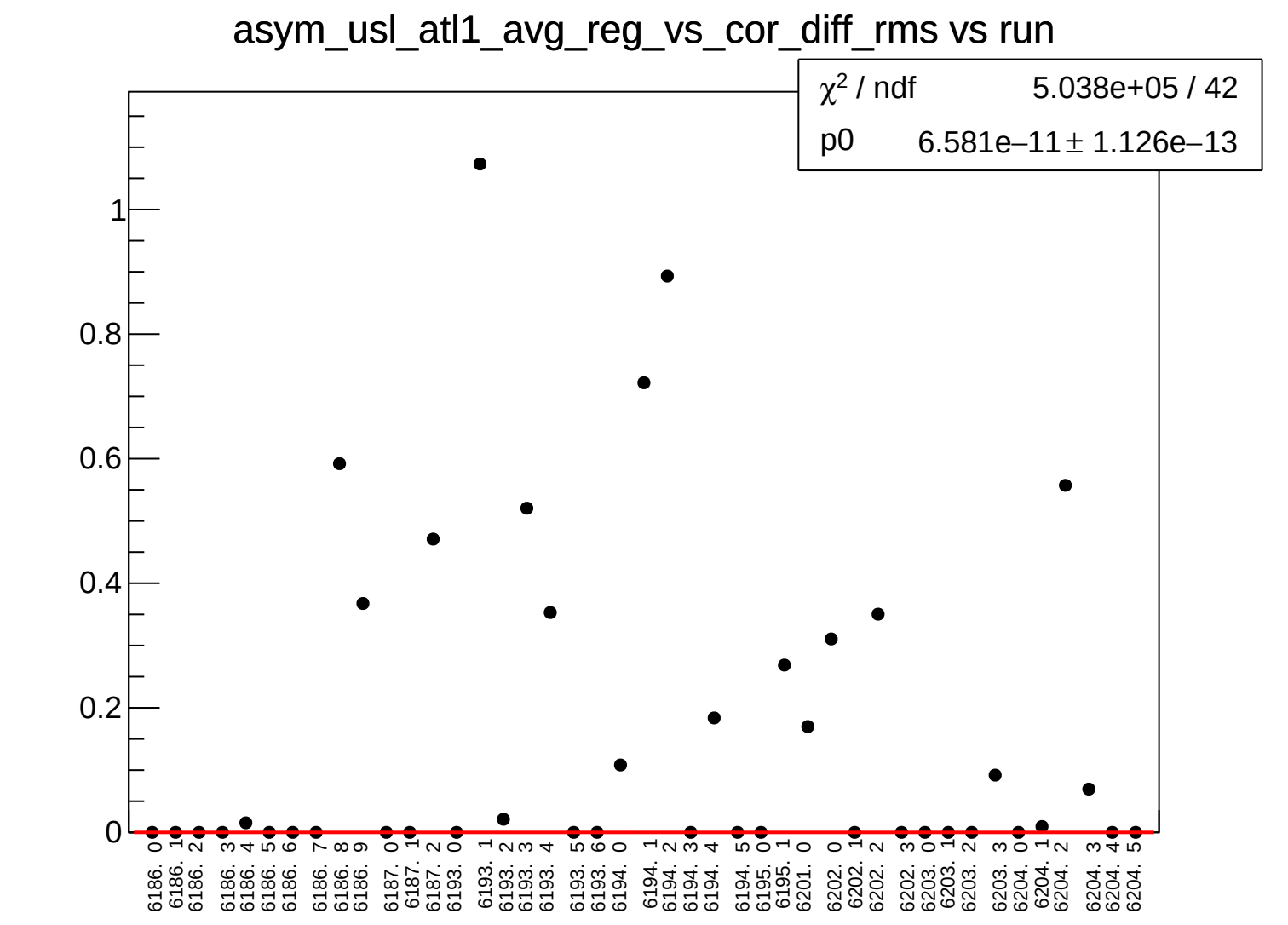

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 64.51 / 42
p0 1202 ± 1192
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 112
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01284
Std Dev 1.225
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

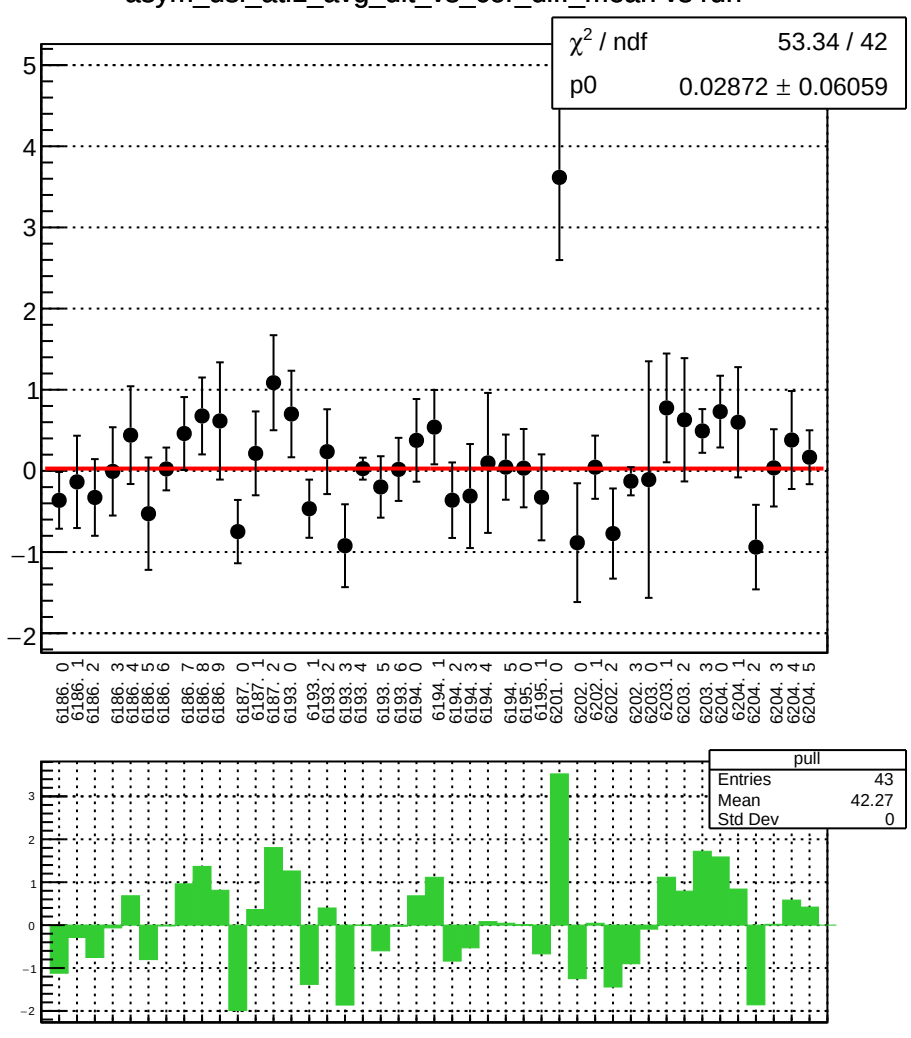

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3873 / 42
p0 773 ± 0.8427
880
860
840
820
800
780
760
740
720
700
680
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

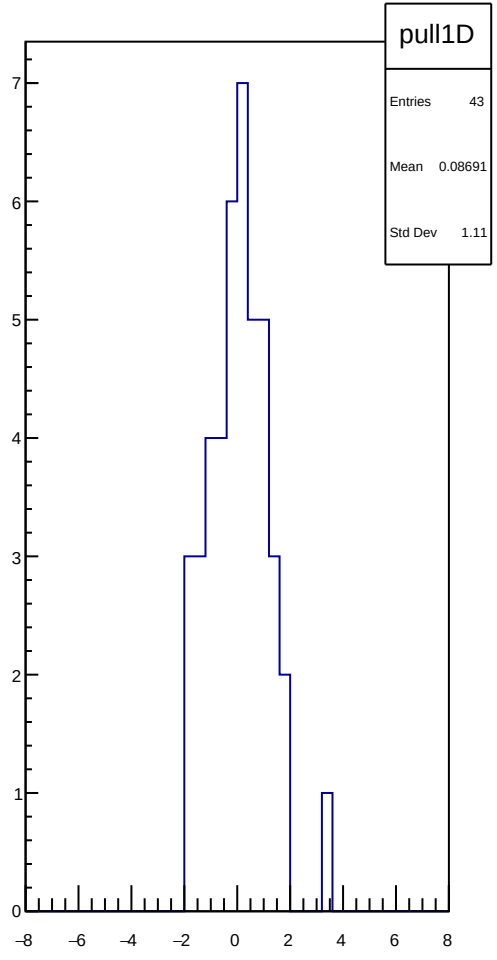

asym_usl_atl1_avg_mean vs run
χ² / ndf 54.59 / 42
p0 −2579 ± 2590
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 35.06
Std Dev 17.87
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04771
Std Dev 1.126
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

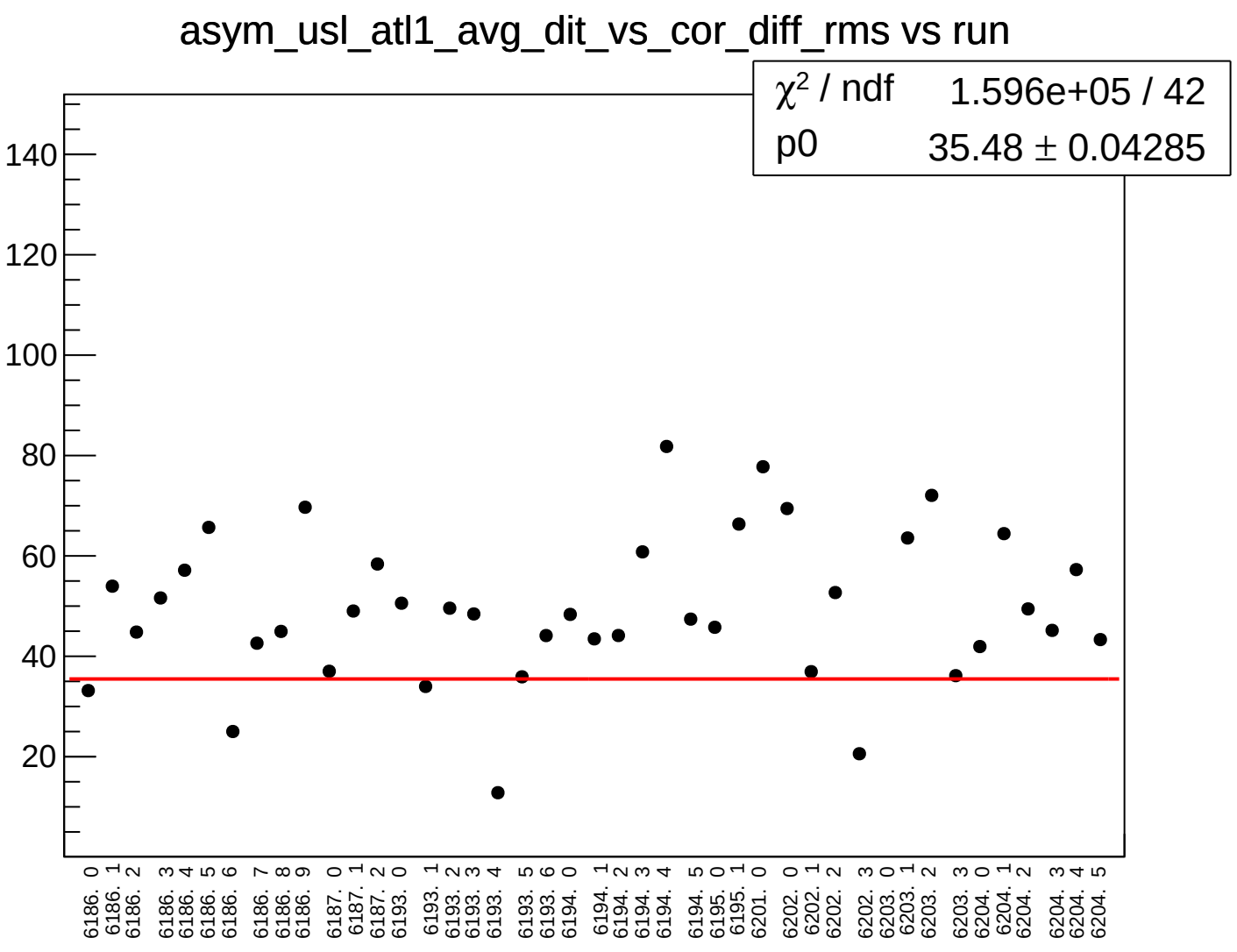

asym_usl_atl1_avg_rms vs run
χ² / ndf 634.8 / 42
p0 1683 ± 1.831
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

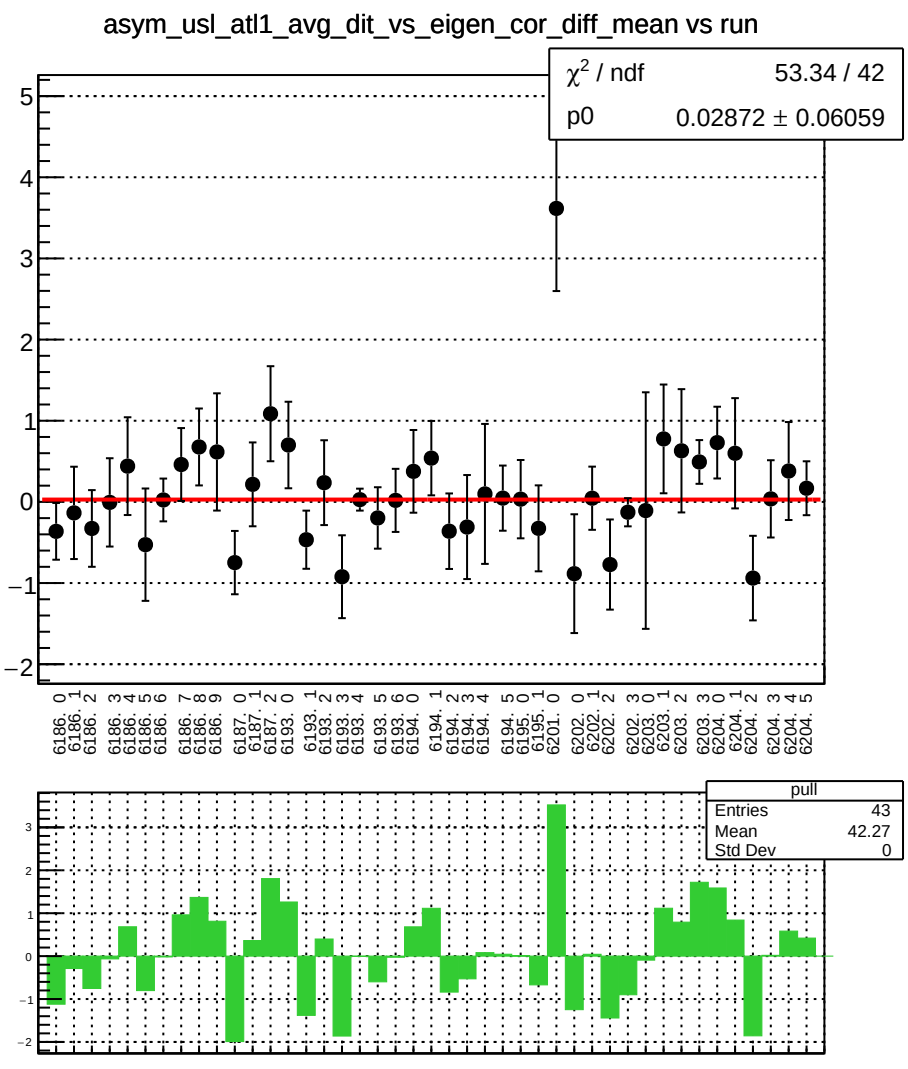

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 52.89 / 42
p0 5.151e−14 ± 1.593e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 122.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02162
Std Dev 1.109
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

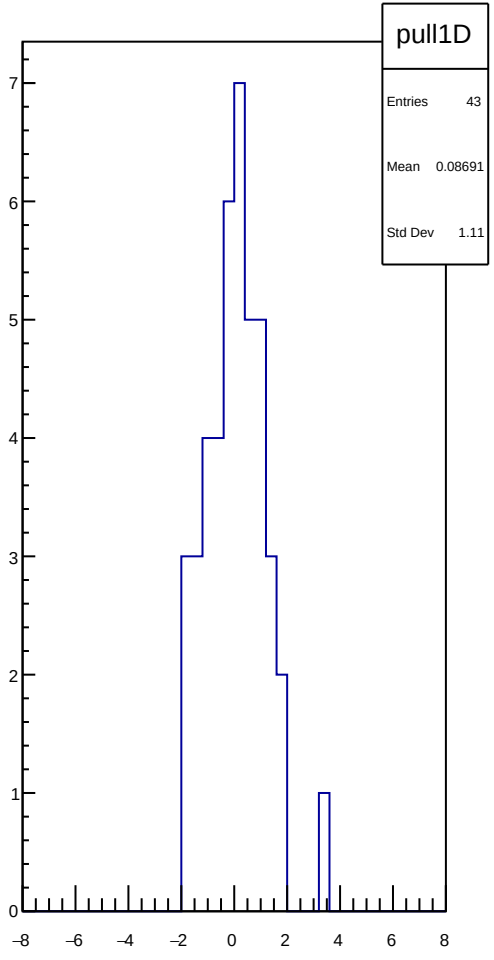

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.038e+05 / 42
p0 6.581e−11 ± 1.126e−13
0
0.2
0.4
0.6
0.8
1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

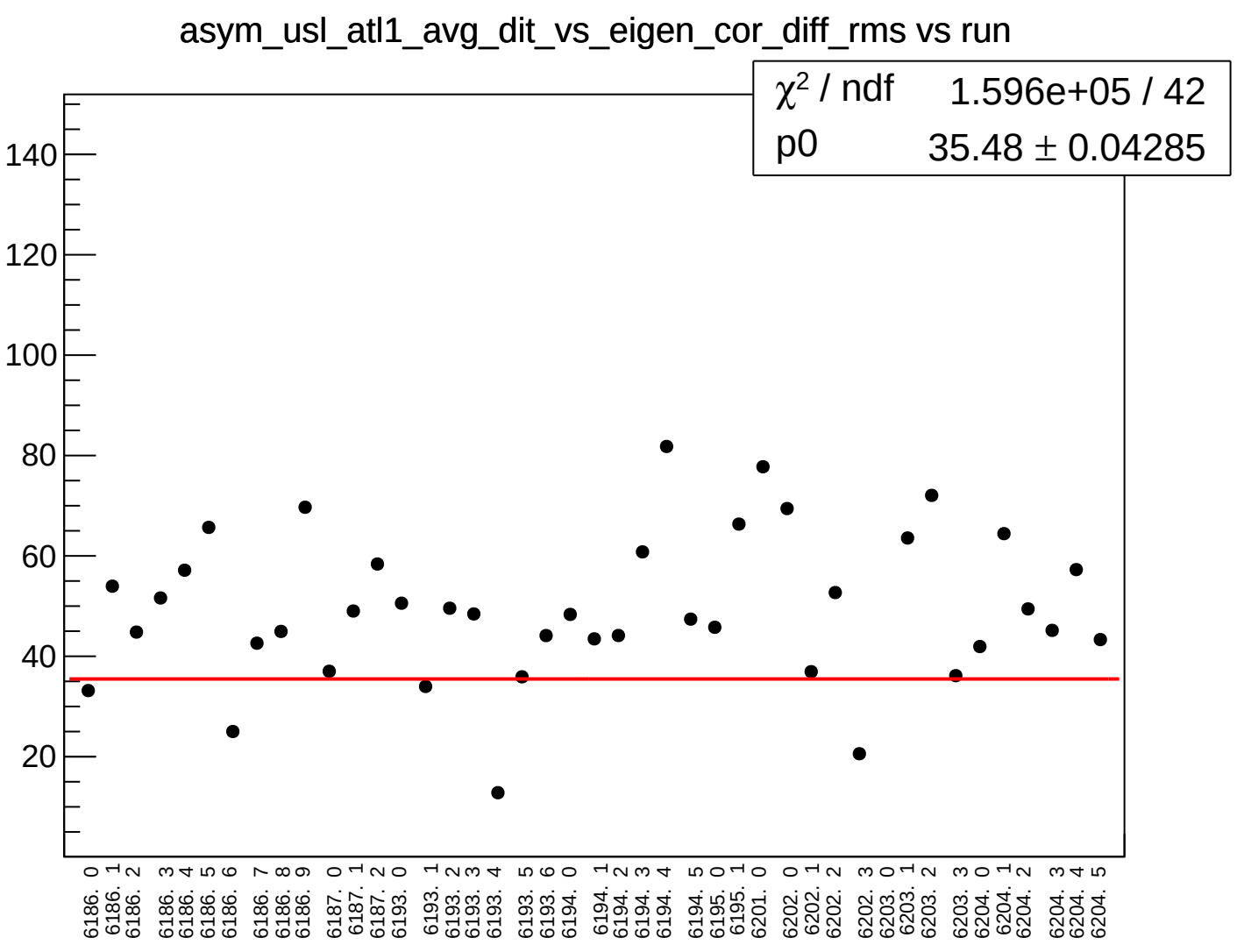

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 53.34 / 42
p0 0.02872 ± 0.06059
pull
Entries 43
Mean 42.27
Std Dev 0

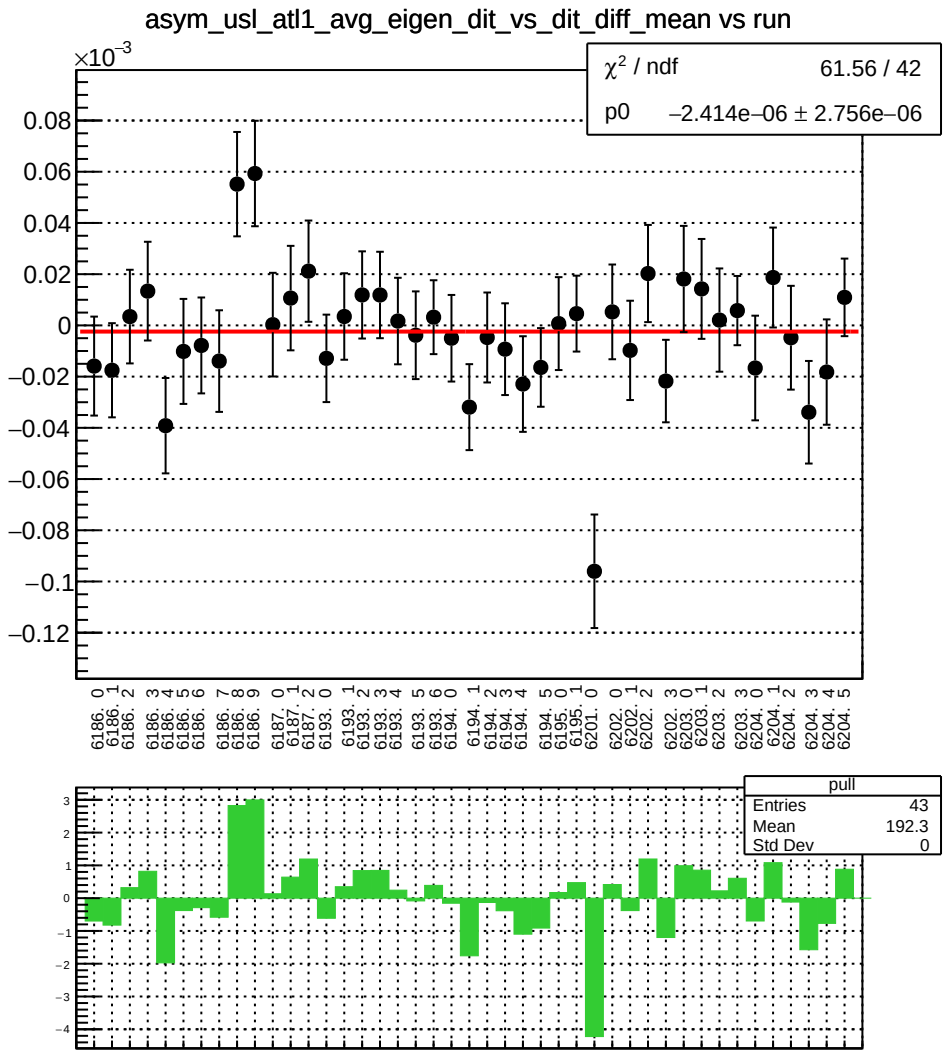

pull1D
Entries 43
Mean 0.08691
Std Dev 1.11

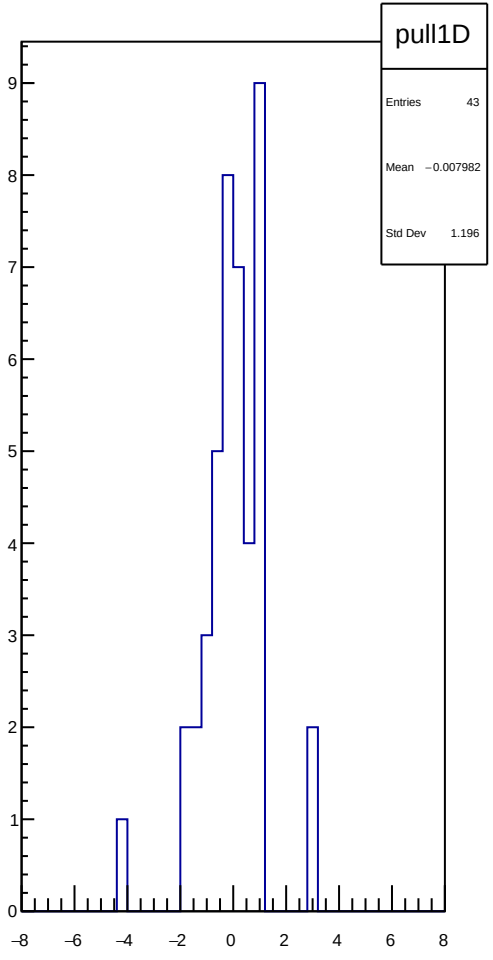

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 42
p0 35.48 ± 0.04285
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

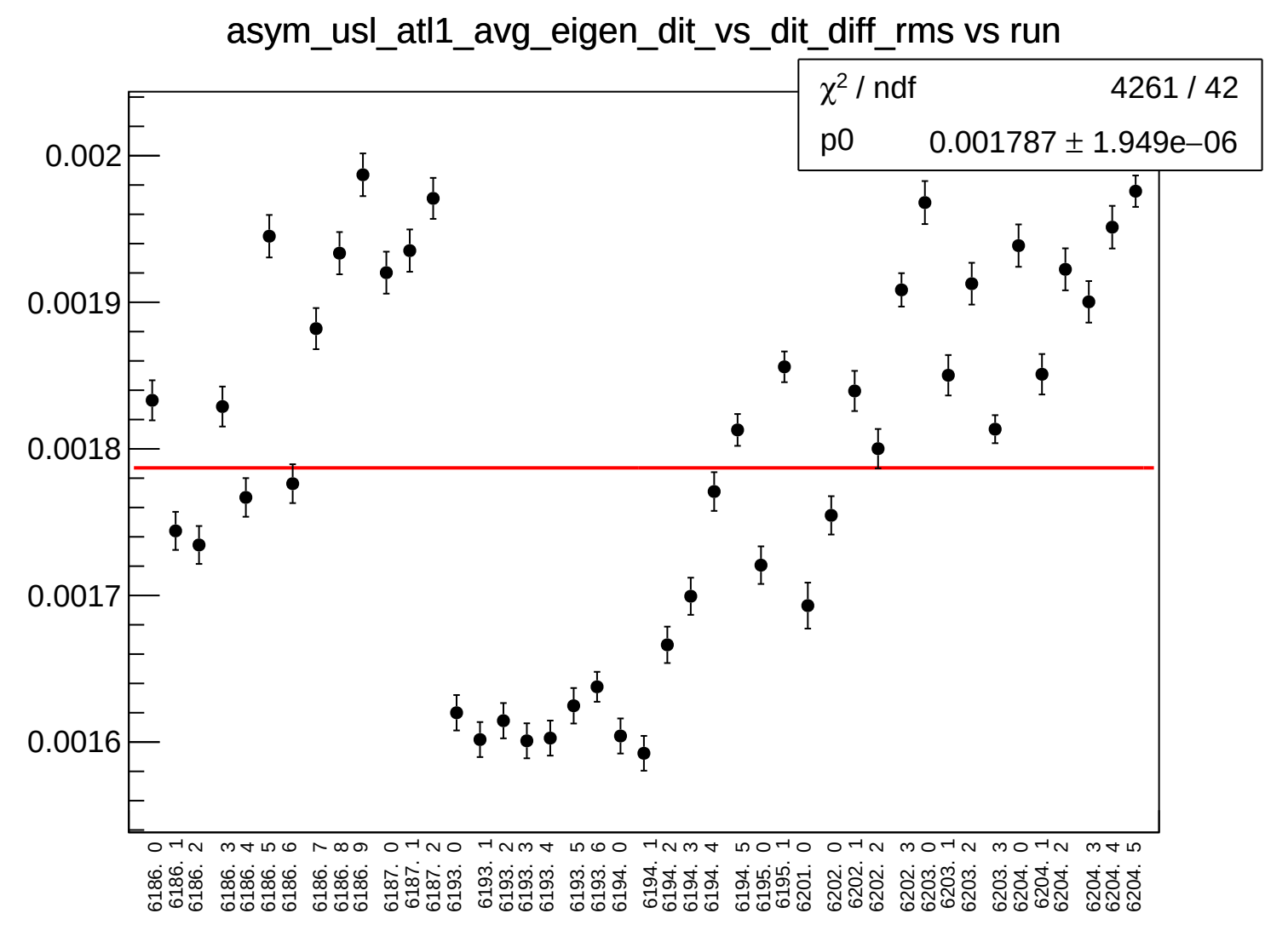

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.34 / 42
p0 0.02872 ± 0.06059
pull
Entries 43
Mean 42.27
Std Dev 0

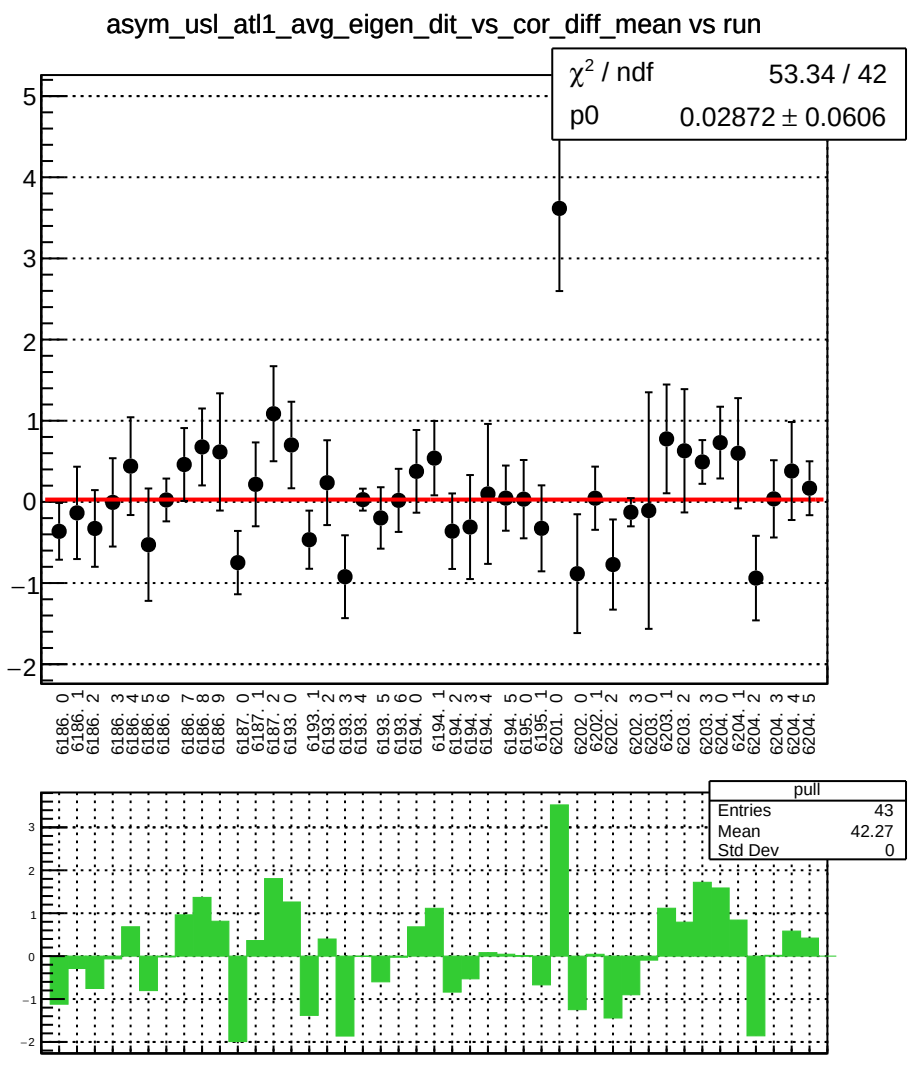

pull1D
Entries 43
Mean 0.08691
Std Dev 1.11

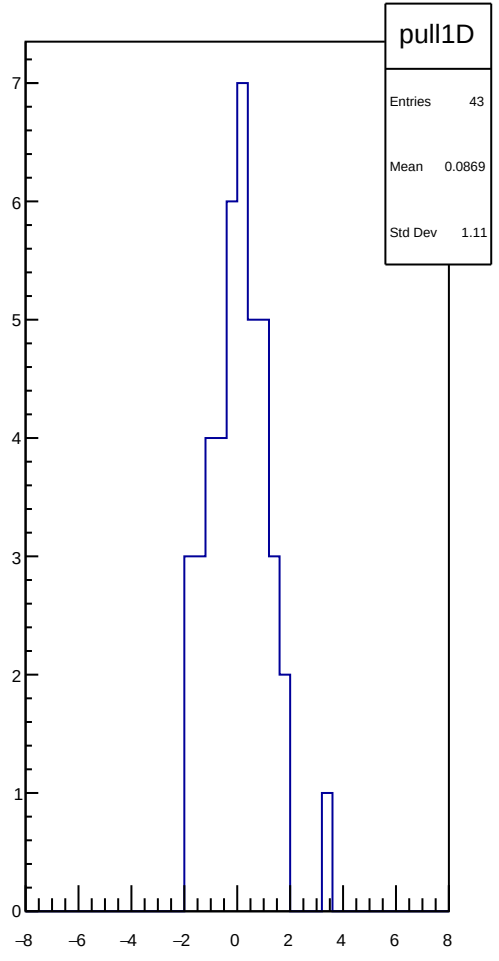

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 42
p0 35.48 ± 0.04285
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

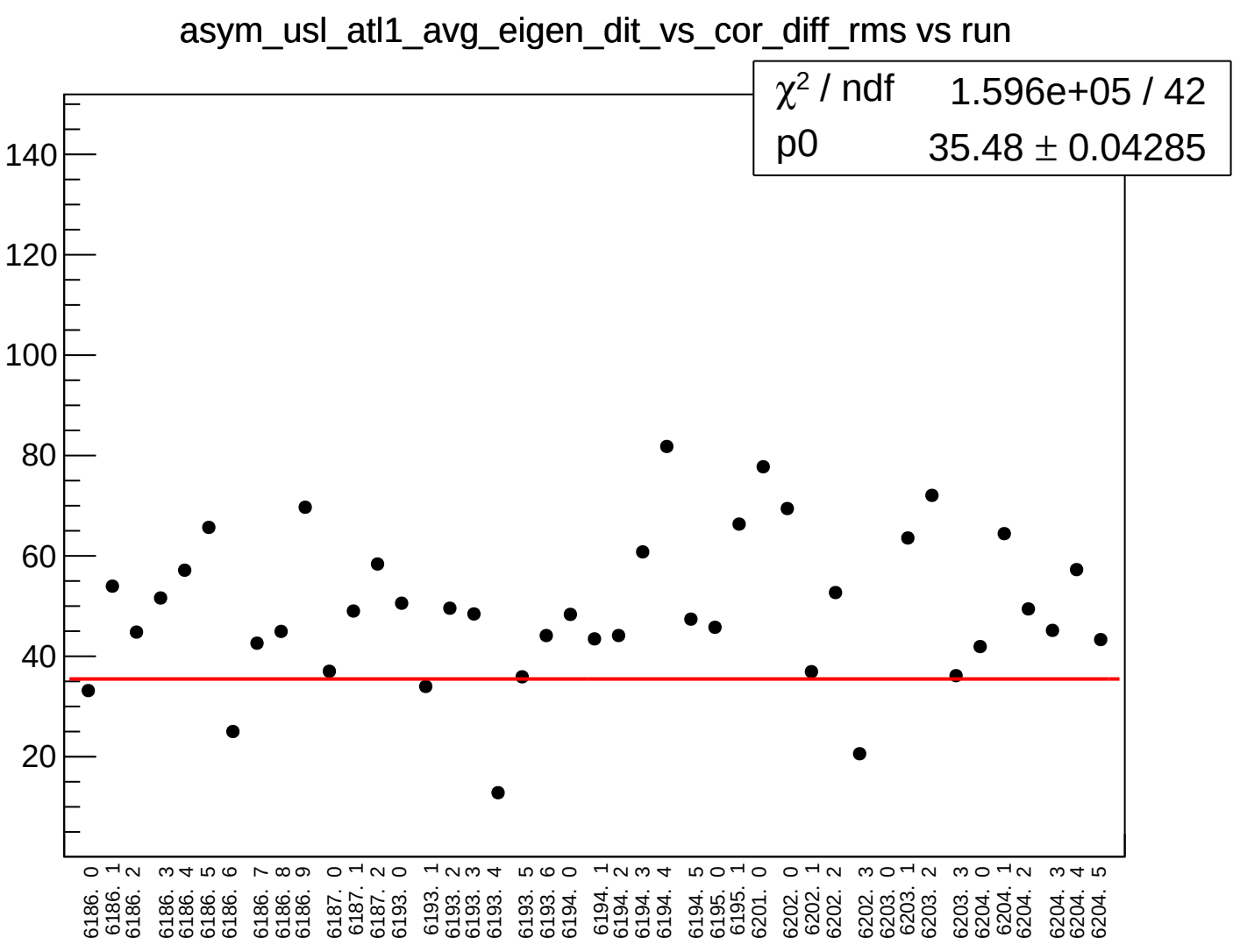

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 61.56 / 42
p0 −2.414e−06 ± 2.756e−06
pull
Entries 43
Mean 192.3
Std Dev 0

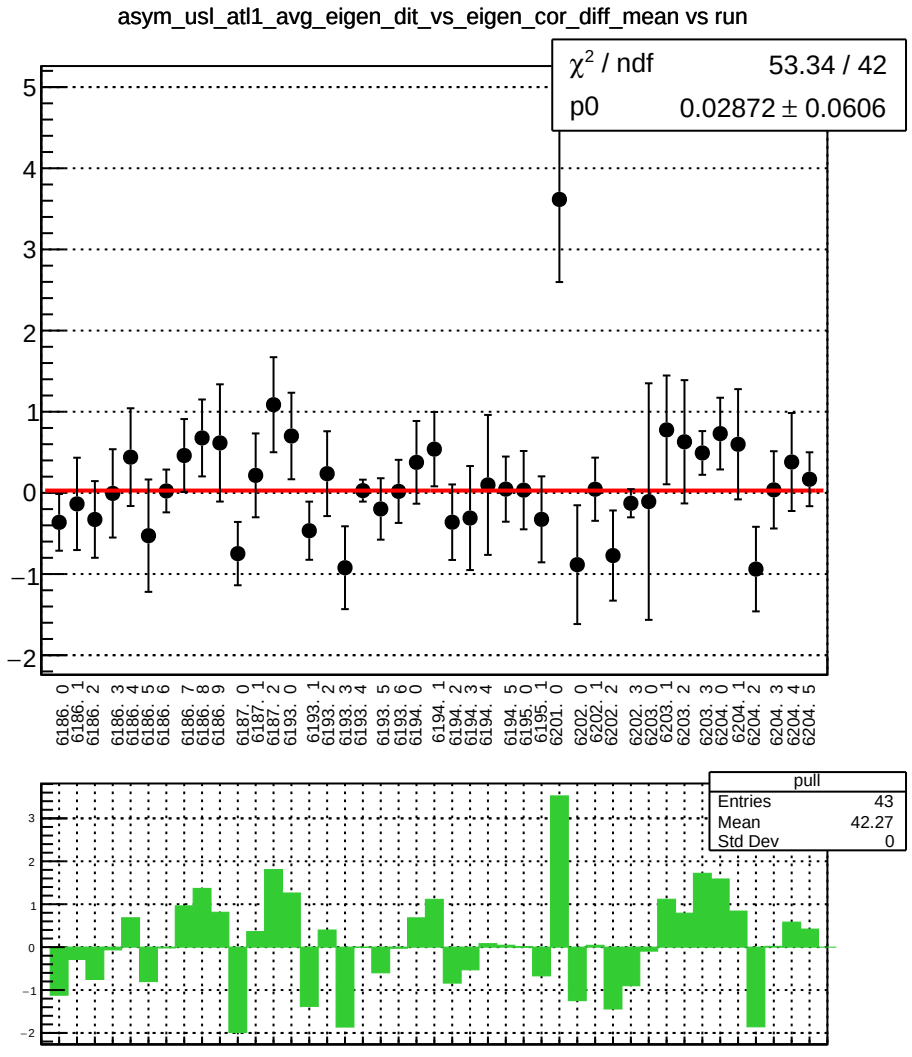

pull1D
Entries 43
Mean −0.007982
Std Dev 1.196

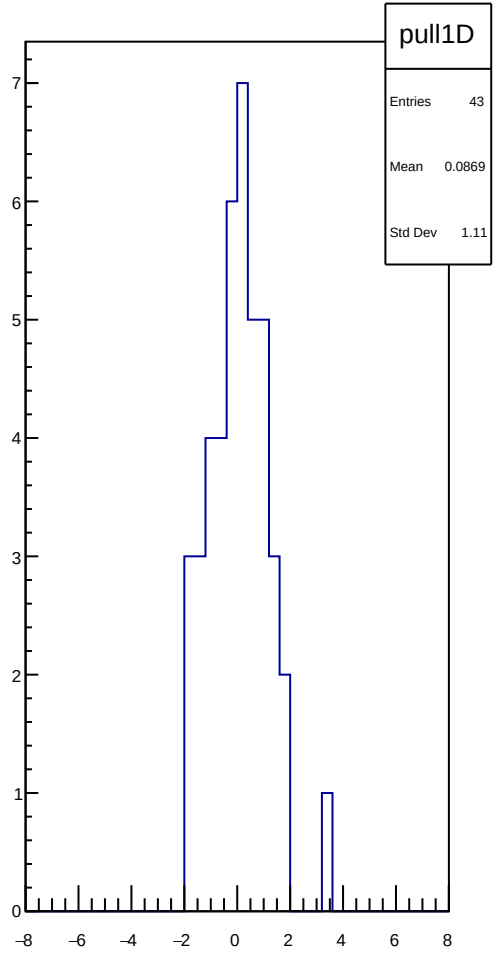

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4261 / 42
p0 0.001787 ± 1.949e−06
0.002
0.0019
0.0018
0.0017
0.0016
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

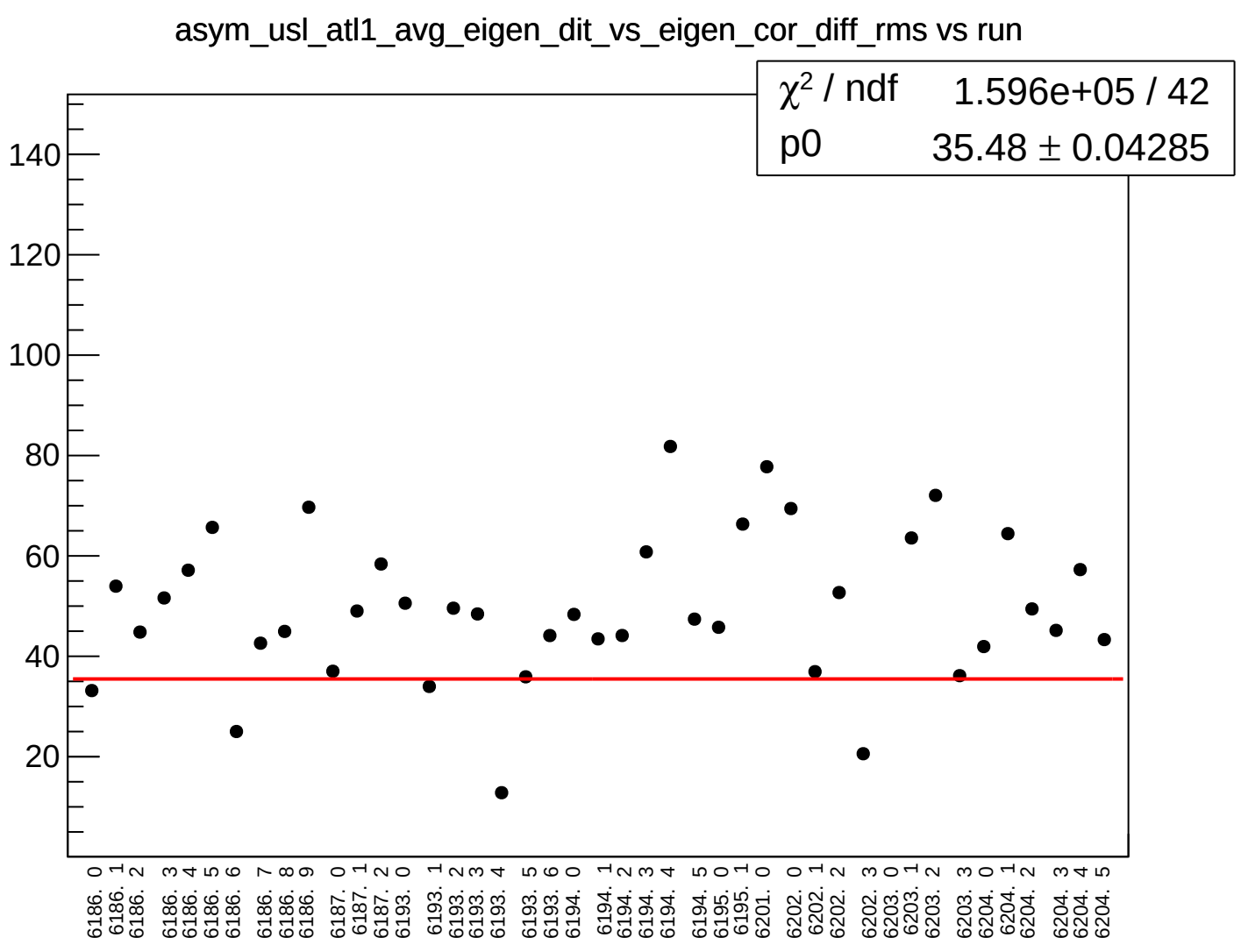

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 53.34 / 42
p0 0.02872 ± 0.0606
pull
Entries 43
Mean 42.27
Std Dev 0

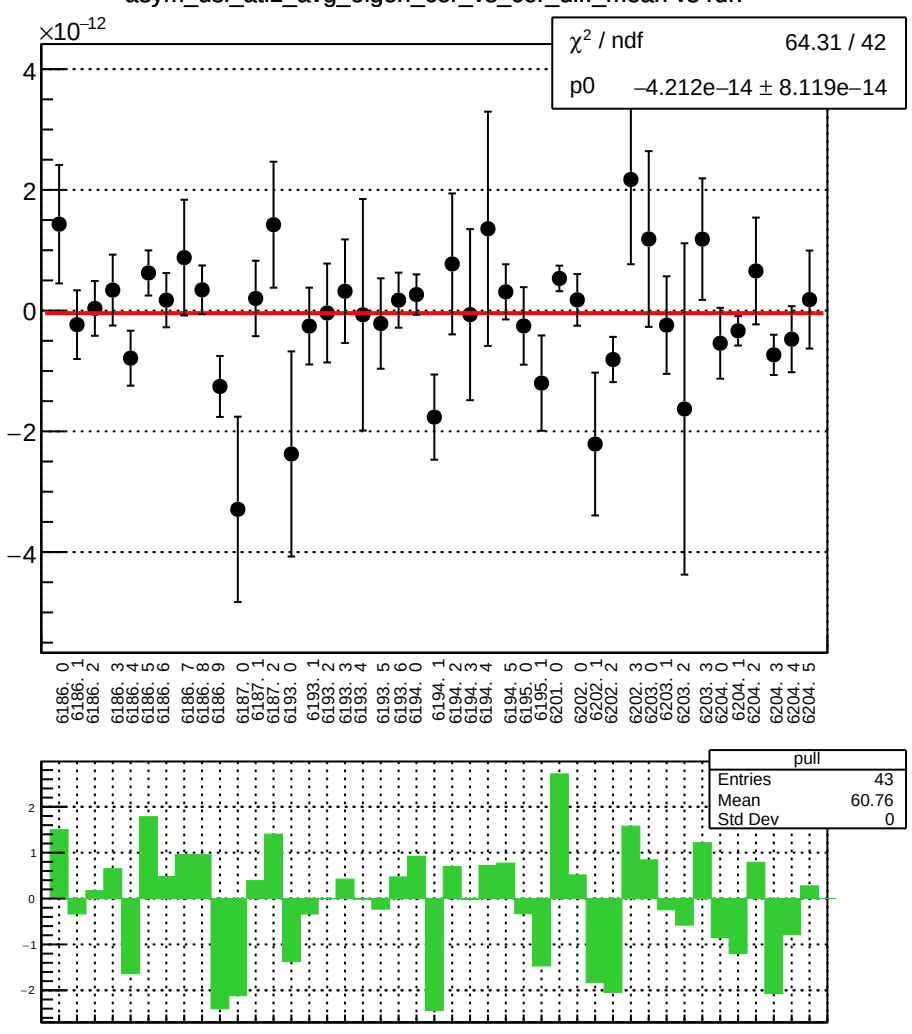

pull1D
Entries 43
Mean 0.0869
Std Dev 1.11

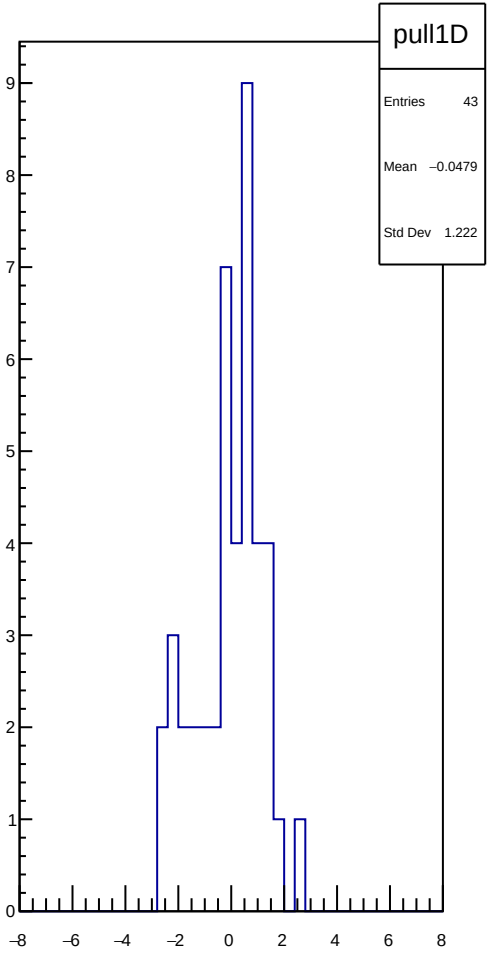

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 42
p0 35.48 ± 0.04285
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

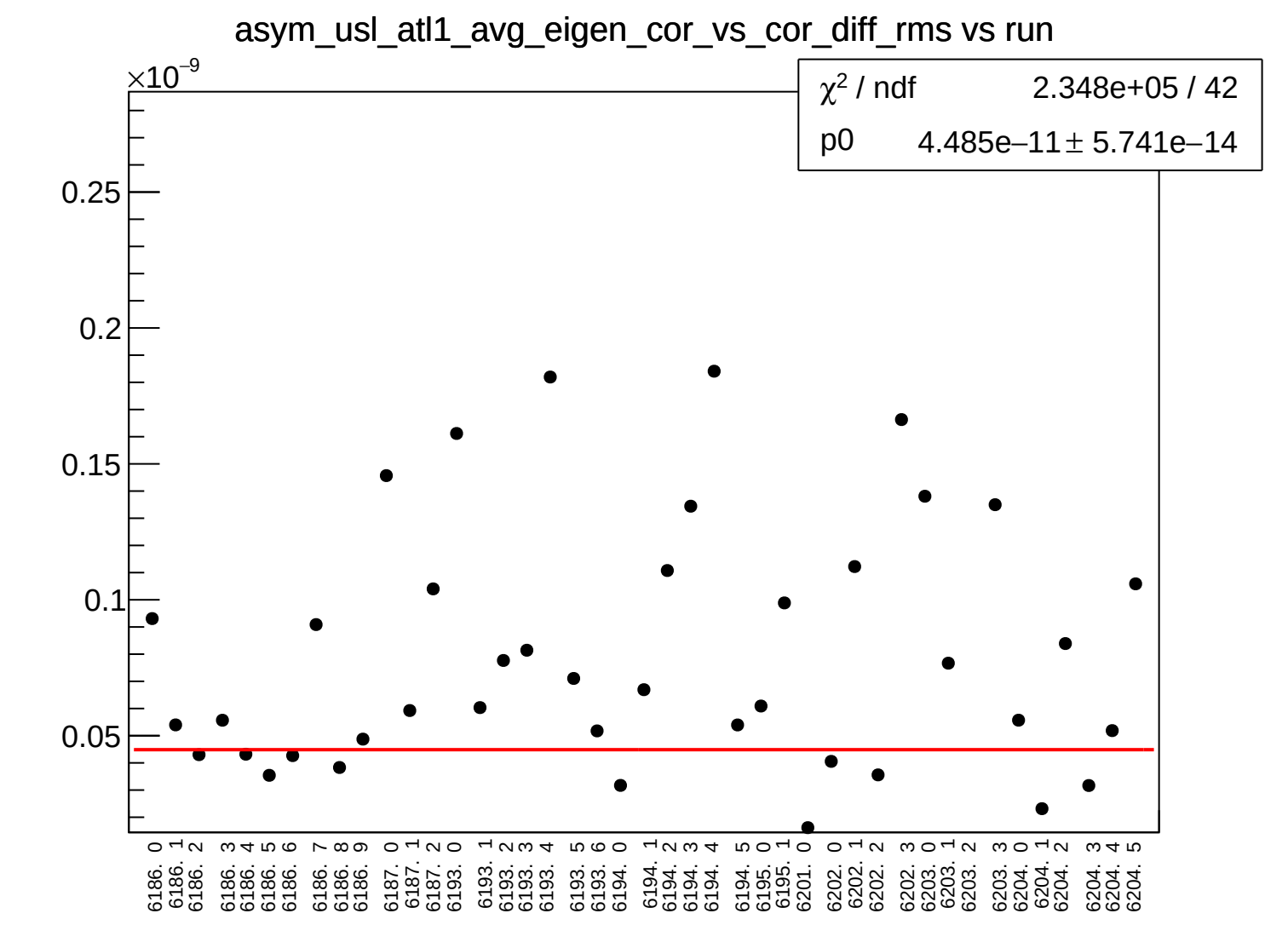

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 53.34 / 42
p0 0.02872 ± 0.0606
pull
Entries 43
Mean 42.27
Std Dev 0


pull1D
Entries 43
Mean 0.0869
Std Dev 1.11


asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.596e+05 / 42
p0 35.48 ± 0.04285
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.31 / 42
p0 −4.212e−14 ± 8.119e−14
pull
Entries 43
Mean 60.76
Std Dev 0


pull1D
Entries 43
Mean −0.0479
Std Dev 1.222


asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.348e+05 / 42
p0 4.485e−11 ± 5.741e−14
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
6204. 0
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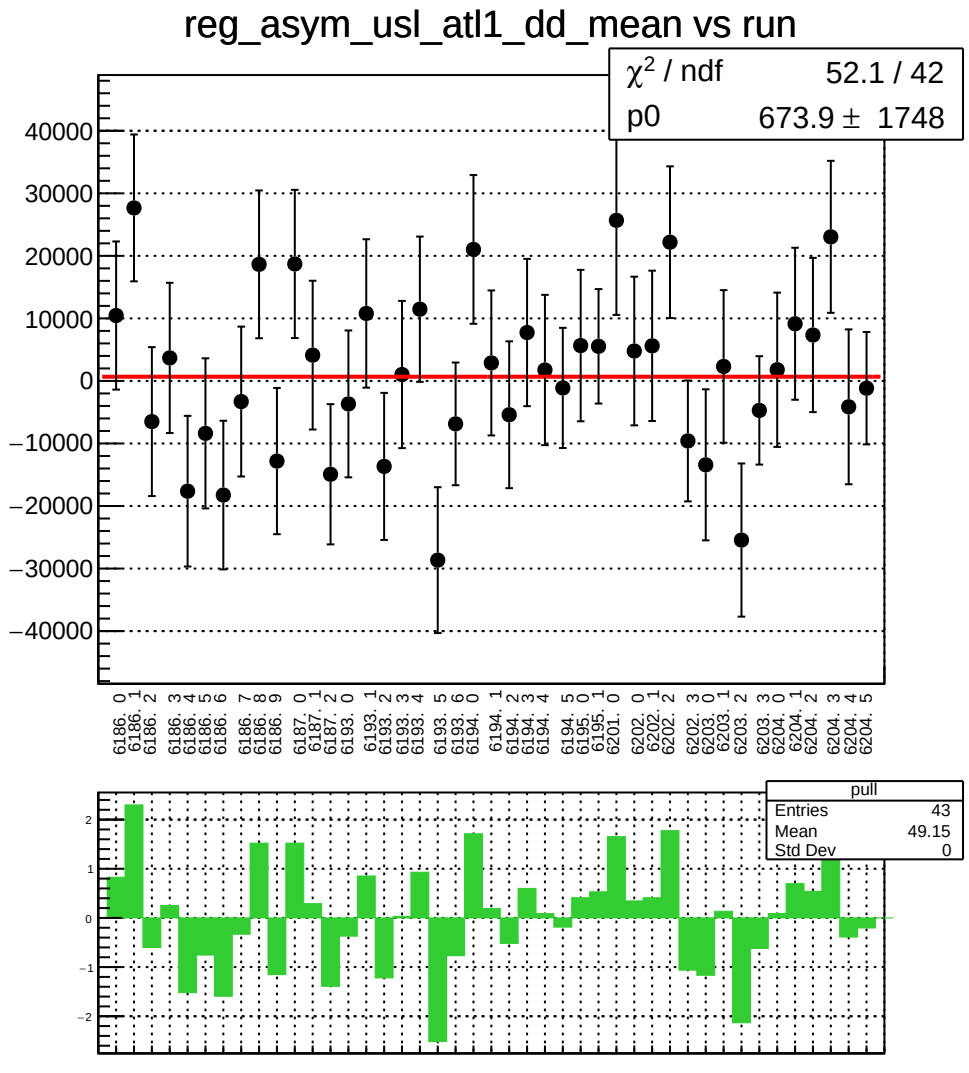
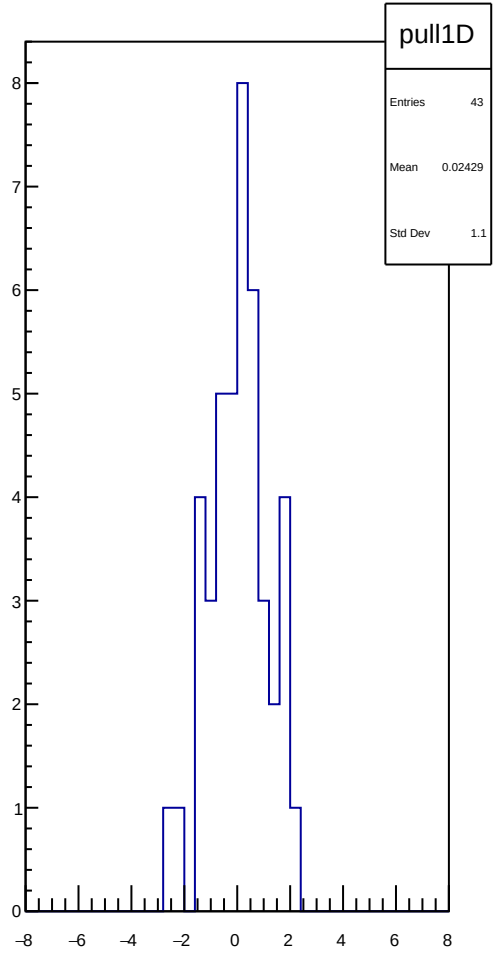
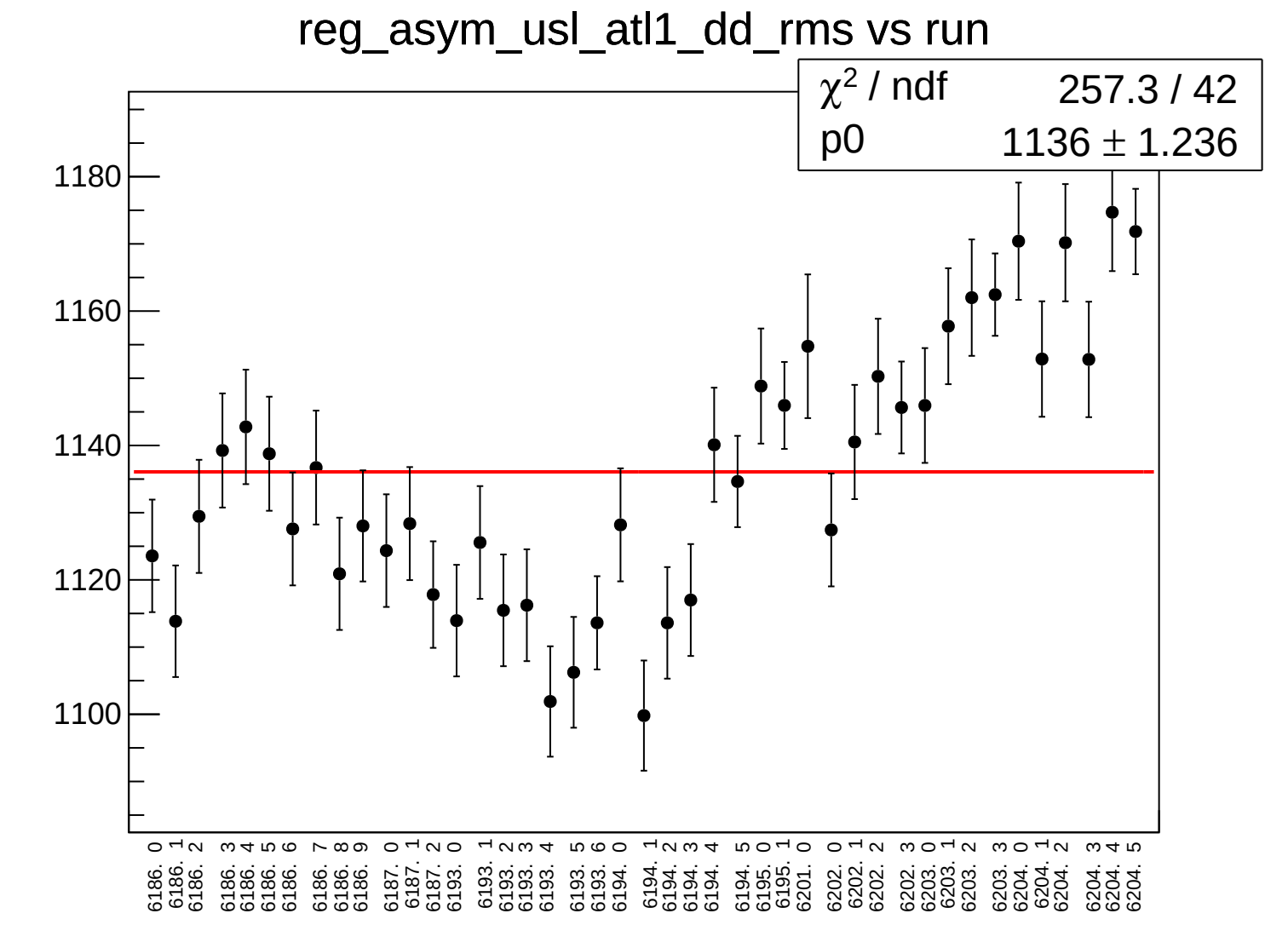
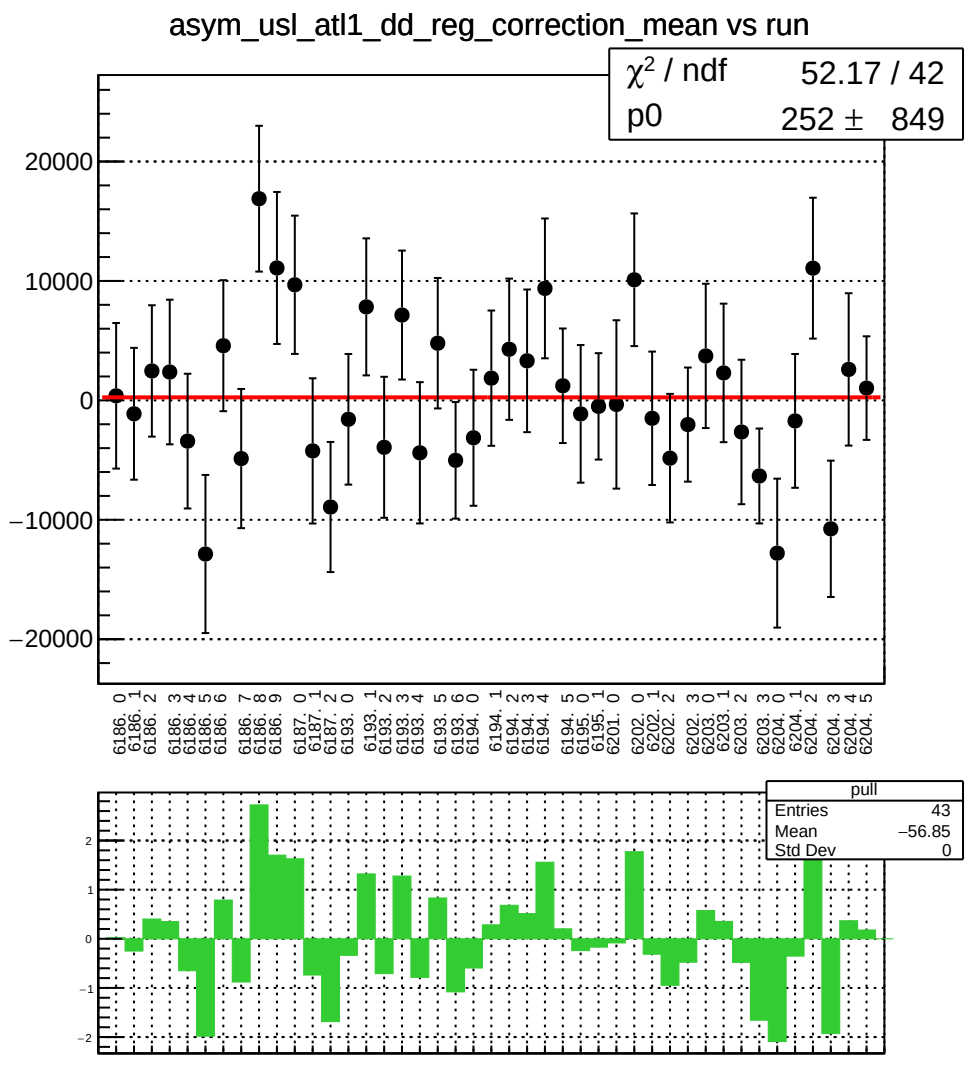
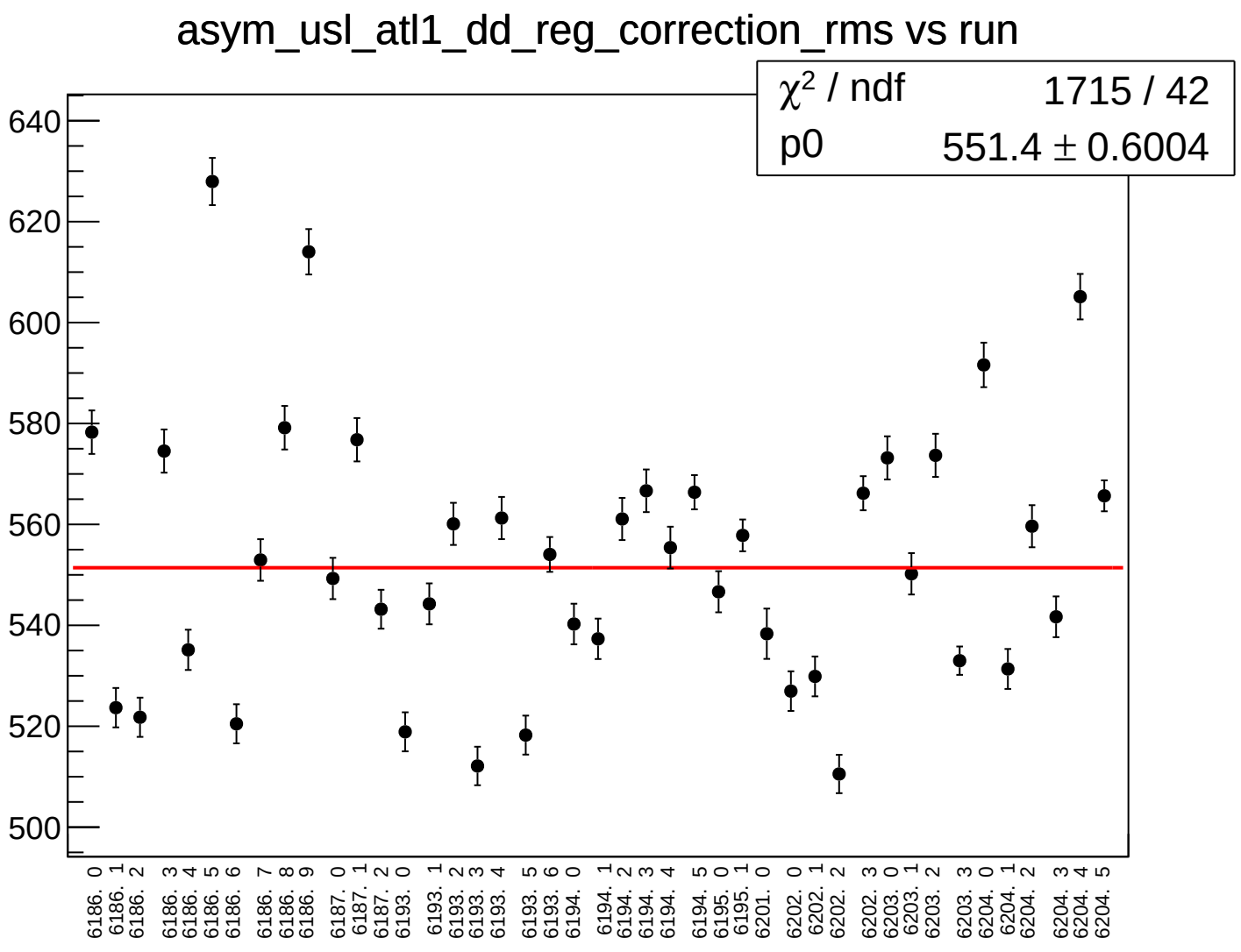
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 52.1 / 42
p0 673.9 ± 1748
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 49.15
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.02429
Std Dev 1.1
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 257.3 / 42
p0 1136 ± 1.236
1180
1160
1140
1120
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 52.17 / 42
p0 252 ± 849
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −56.85
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02188
Std Dev 1.101
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1715 / 42
p0 551.4 ± 0.6004
640
620
600
580
560
540
520
500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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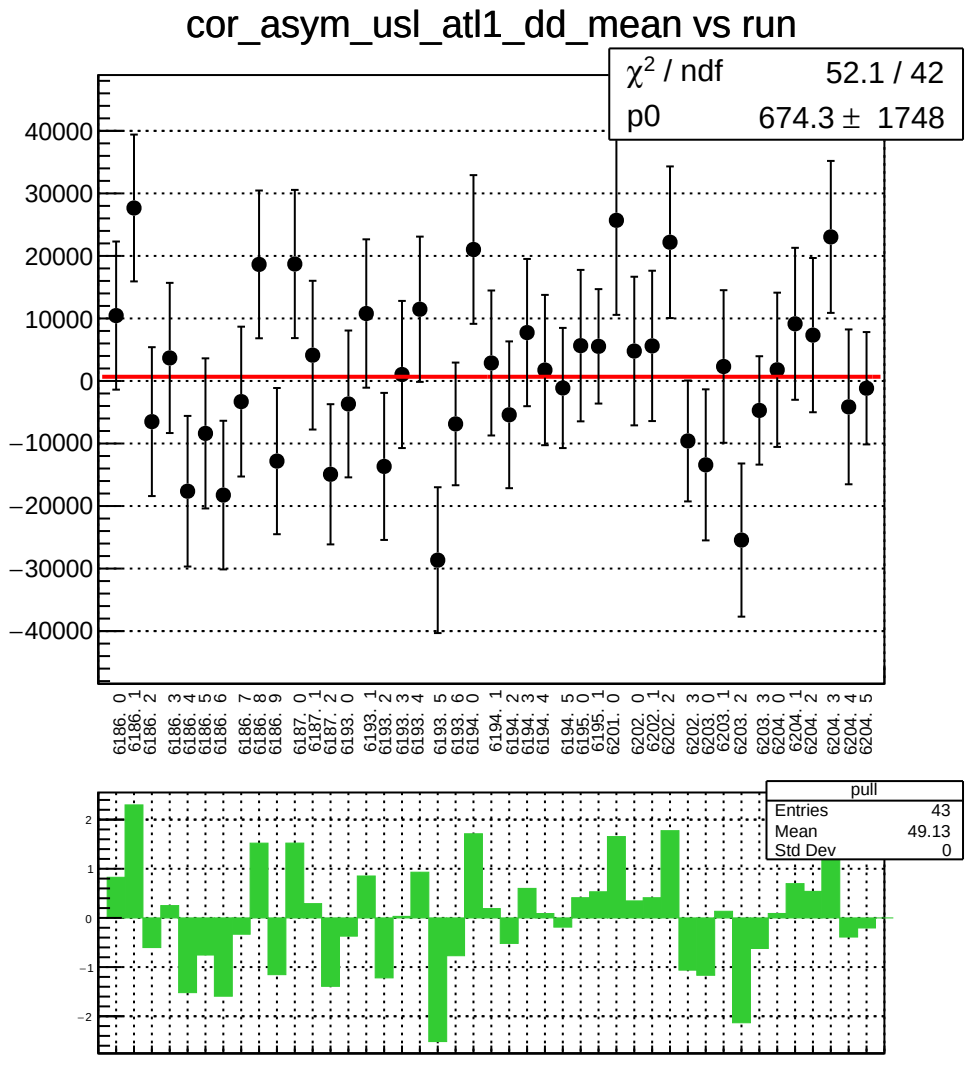
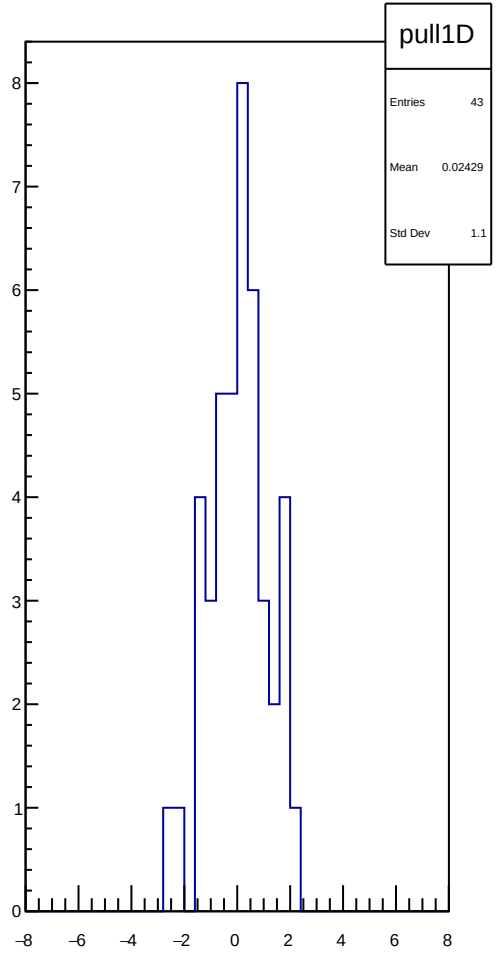
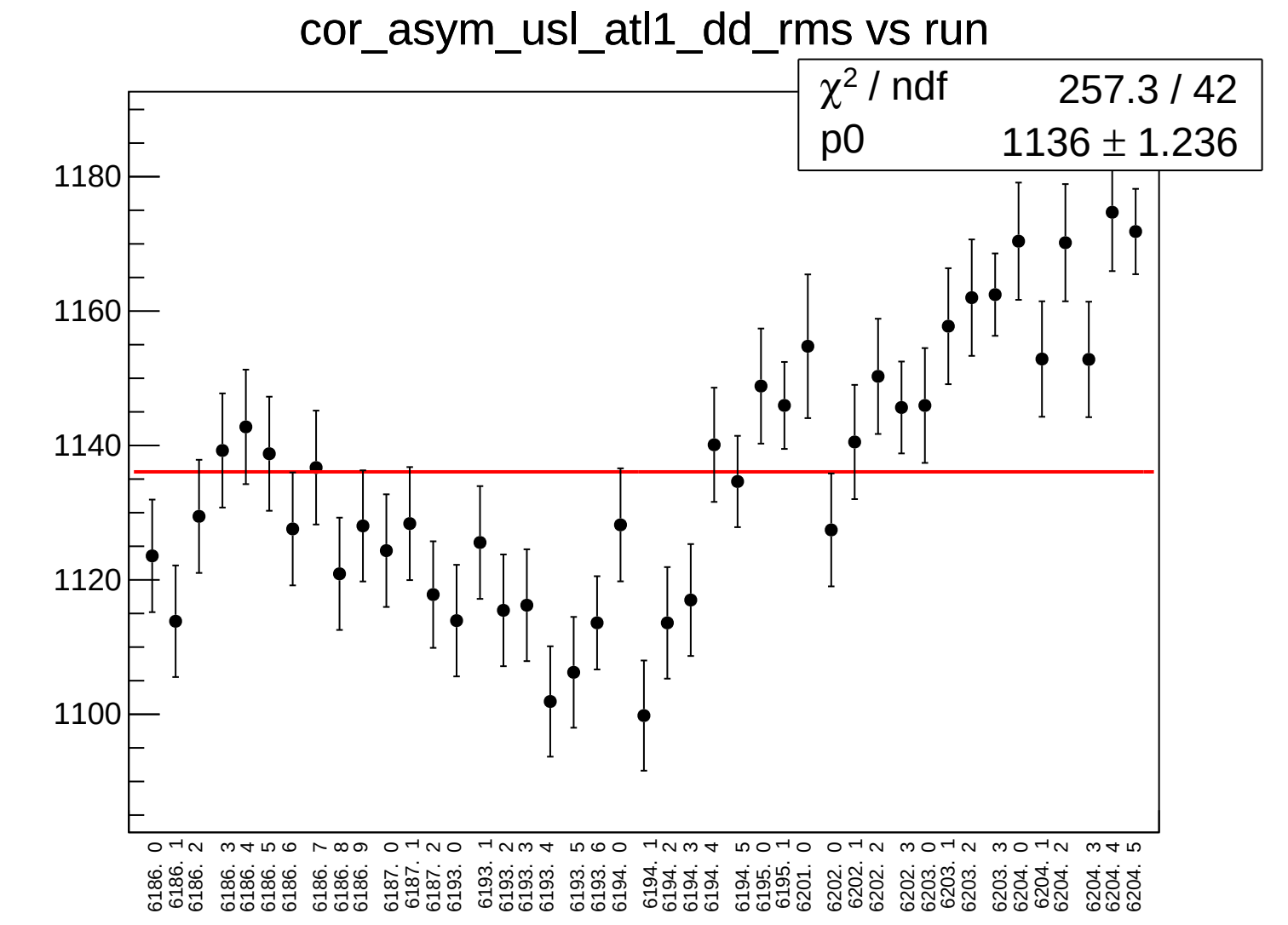
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 52.1 / 42
p0 674.3 ± 1748
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 49.13
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.02429
Std Dev 1.1
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 257.3 / 42
p0 1136 ± 1.236
1180
1160
1140
1120
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
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6204. 1
6204. 2
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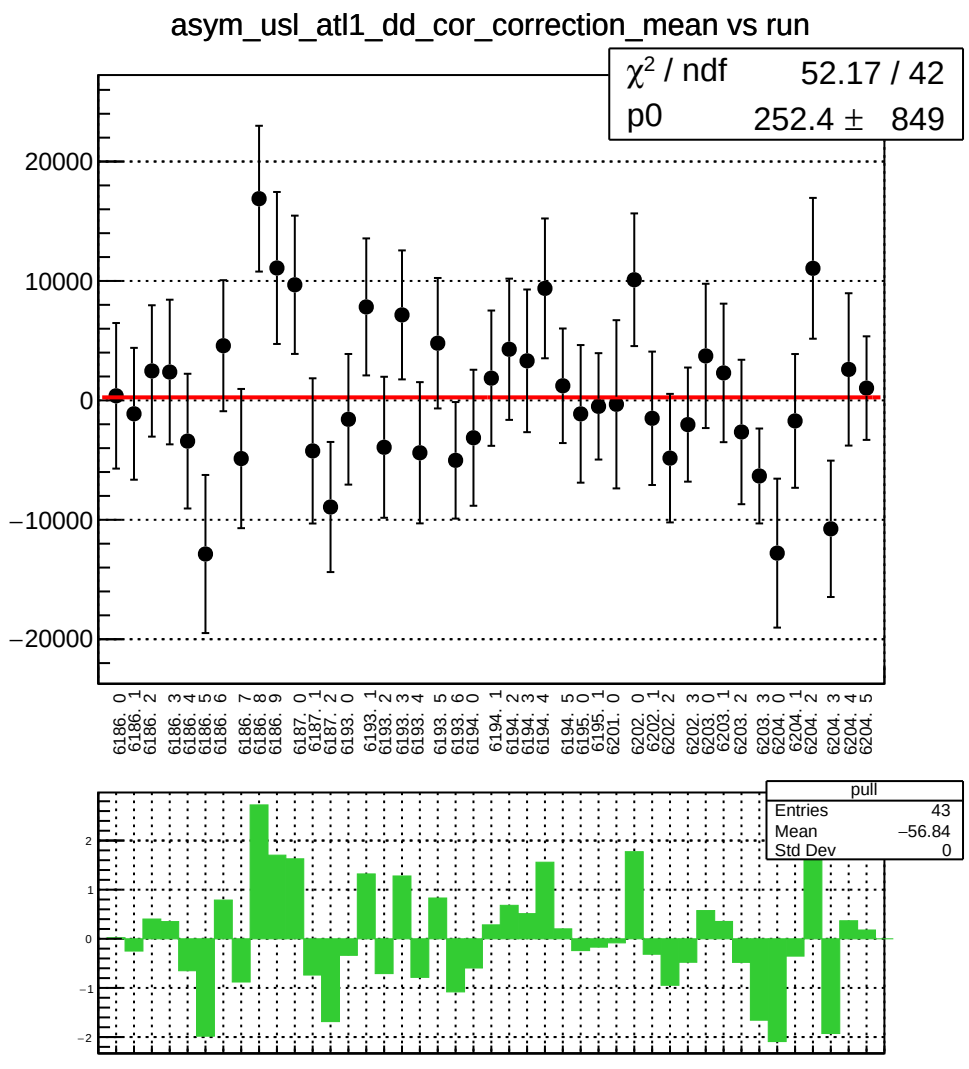
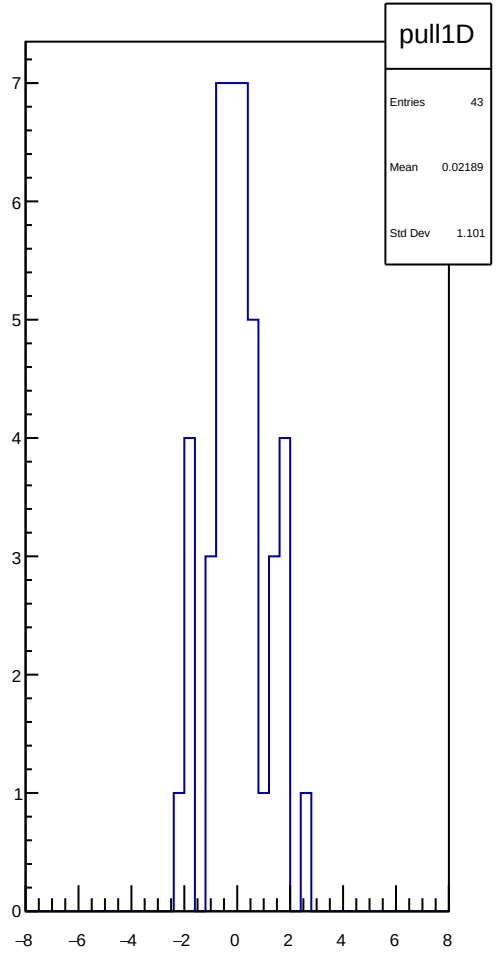
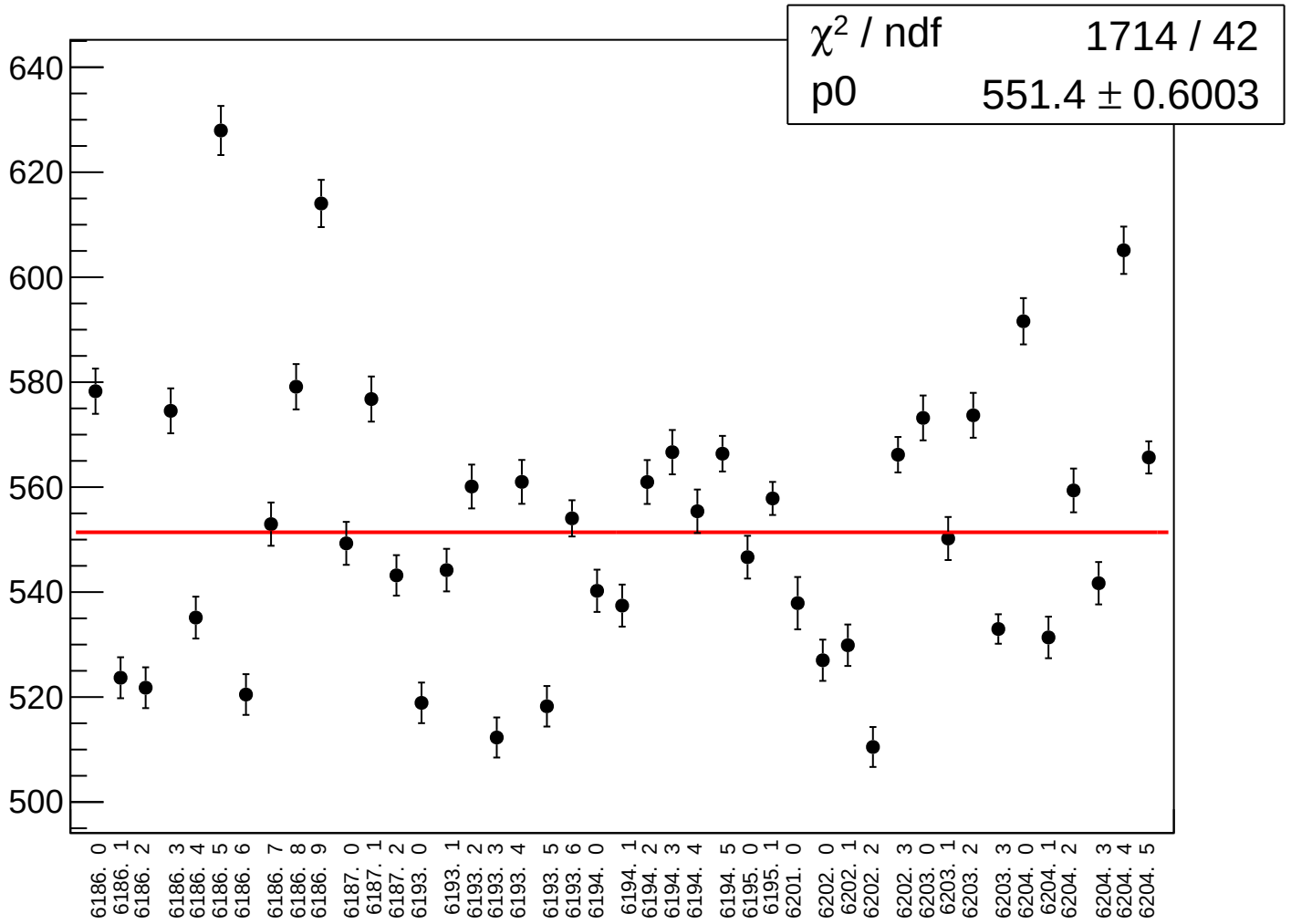
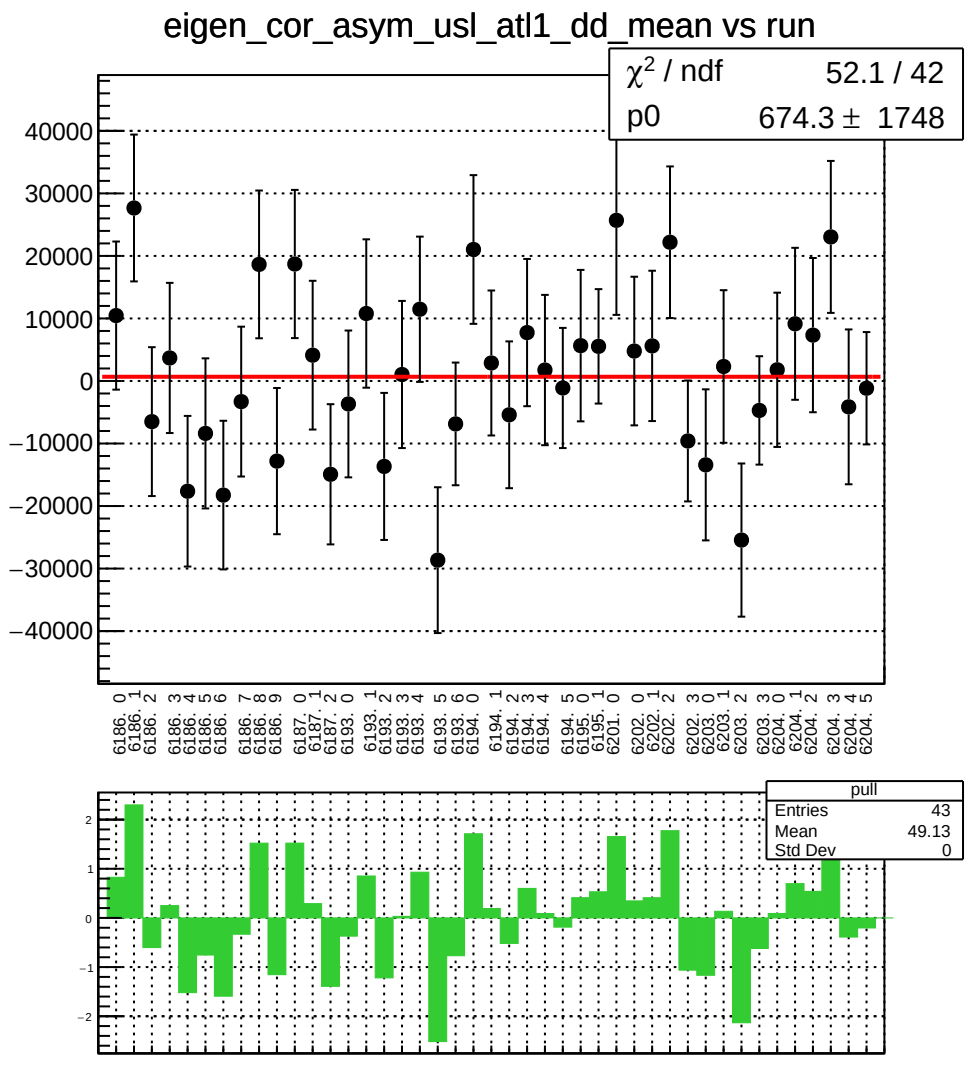
6204. 4
6204. 5


asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 52.17 / 42
p0 252.4 ± 849
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −56.84
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.02189
Std Dev 1.101
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1714 / 42
p0 551.4 ± 0.6003
640
620
600
580
560
540
520
500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 52.1 / 42
p0 674.3 ± 1748
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
6193. 0
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6193. 2
6193. 3
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6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
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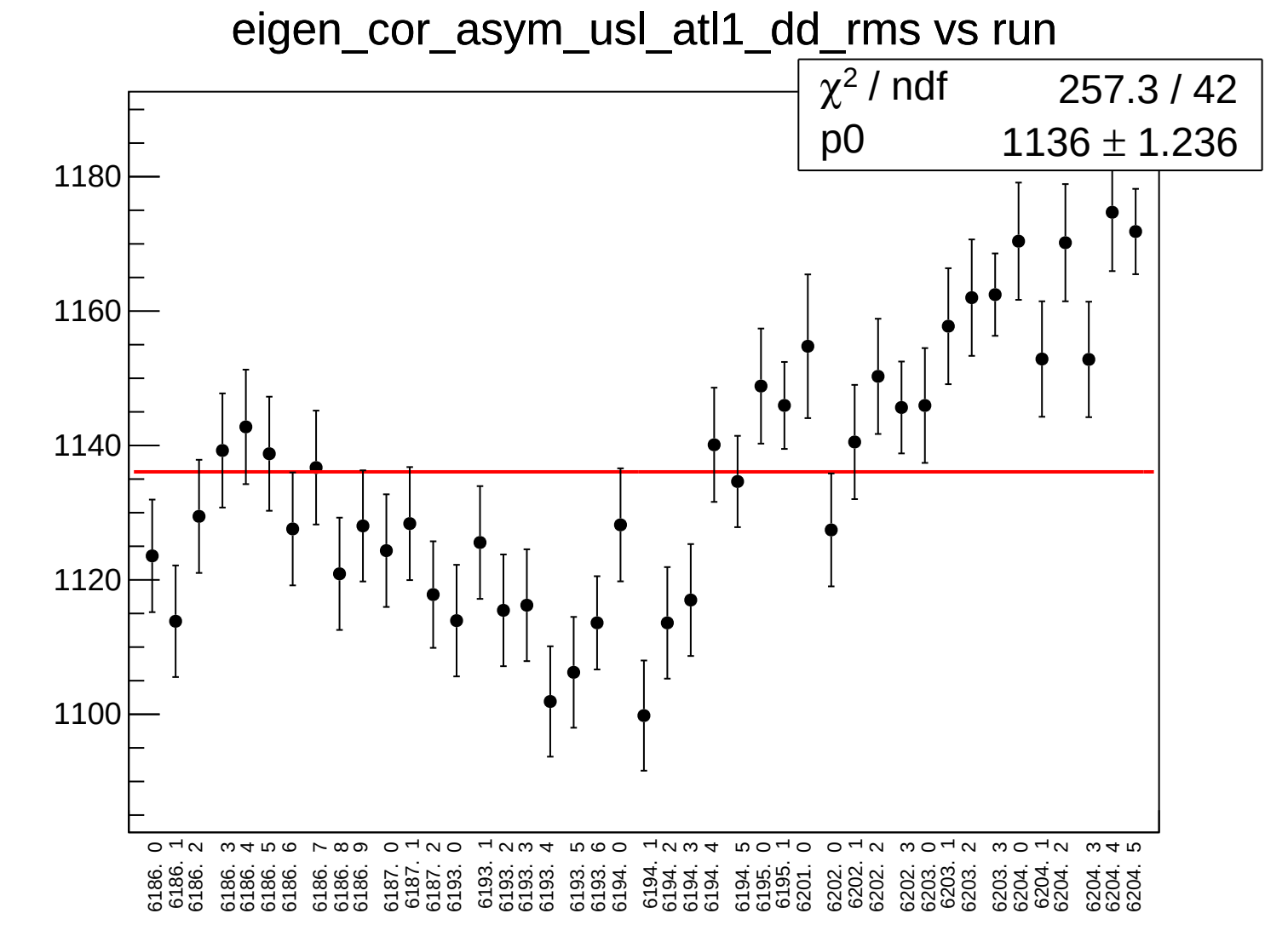
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 49.13
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02429
Std Dev 1.1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 257.3 / 42
p0 1136 ± 1.236
1180
1160
1140
1120
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
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6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
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6203. 3
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6204. 1
6204. 2
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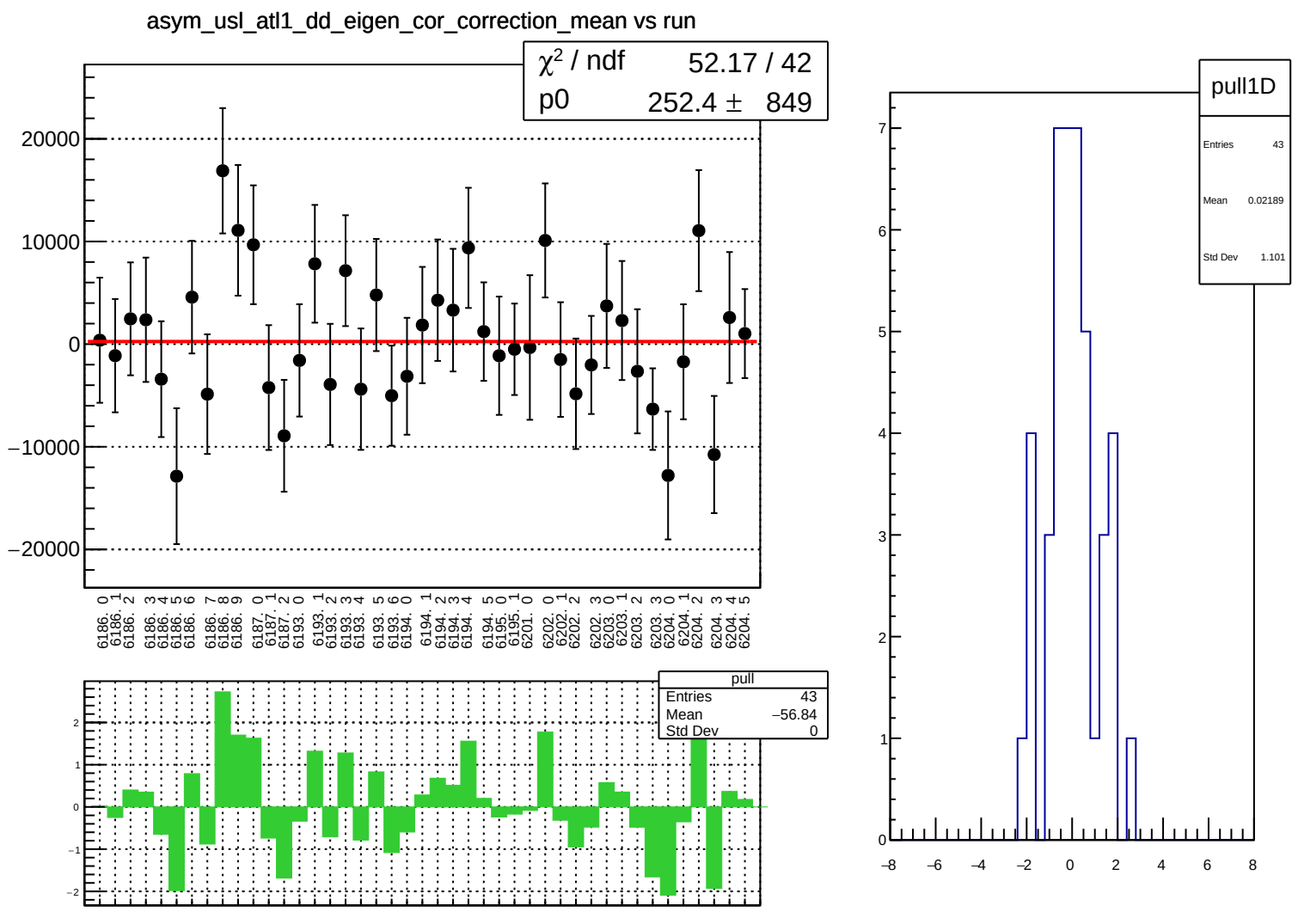
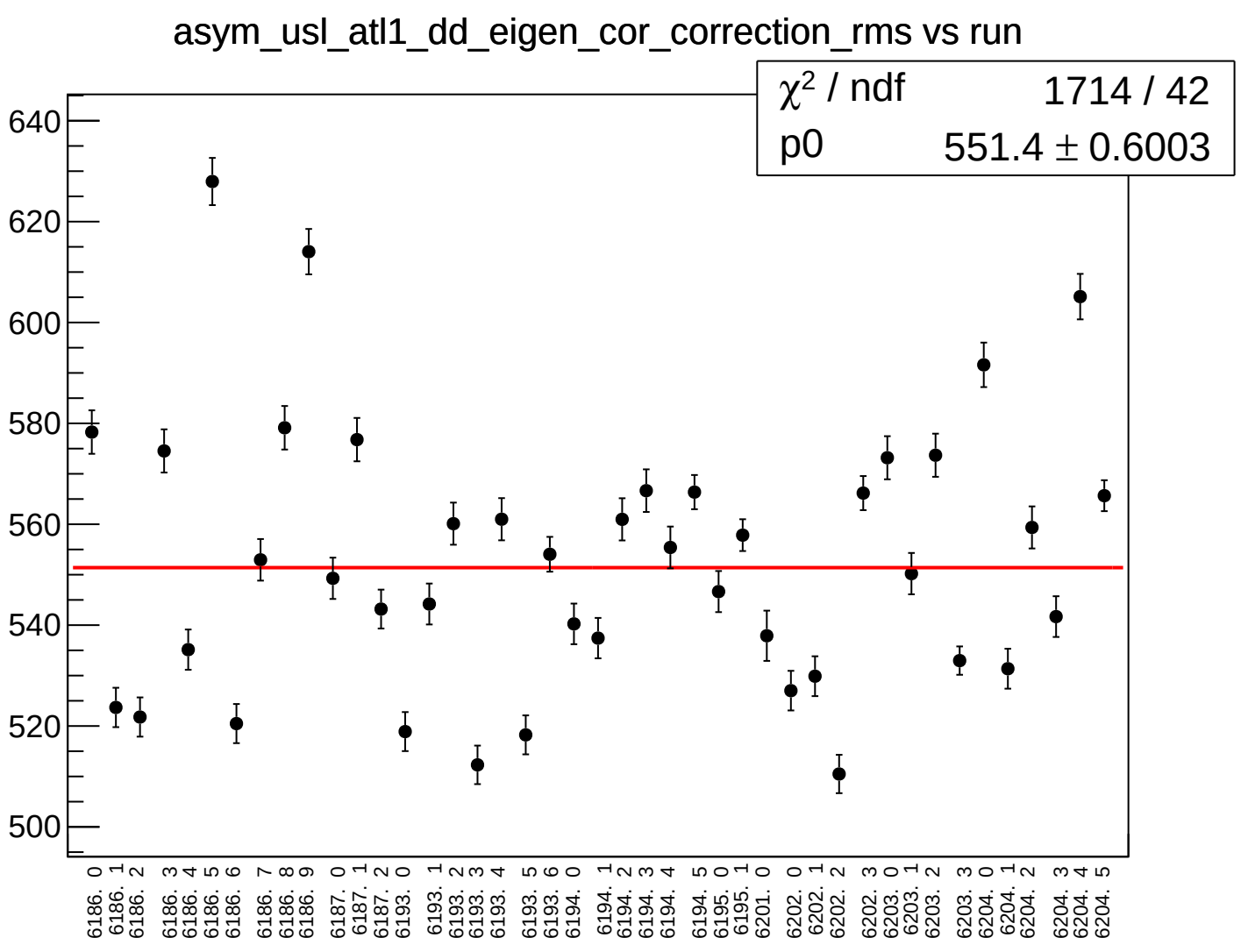
6204. 4
6204. 5


asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 52.17 / 42
p0 252.4 ± 849
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −56.84
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02189
Std Dev 1.101
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1714 / 42
p0 551.4 ± 0.6003
640
620
600
580
560
540
520
500
6186. 0
6186. 1
6186. 2
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6186. 4
6186. 5
6186. 6
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6186. 9
6187. 0
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6187. 2
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6194. 2
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6194. 5
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6202. 0
6202. 1
6202. 2
6202. 3
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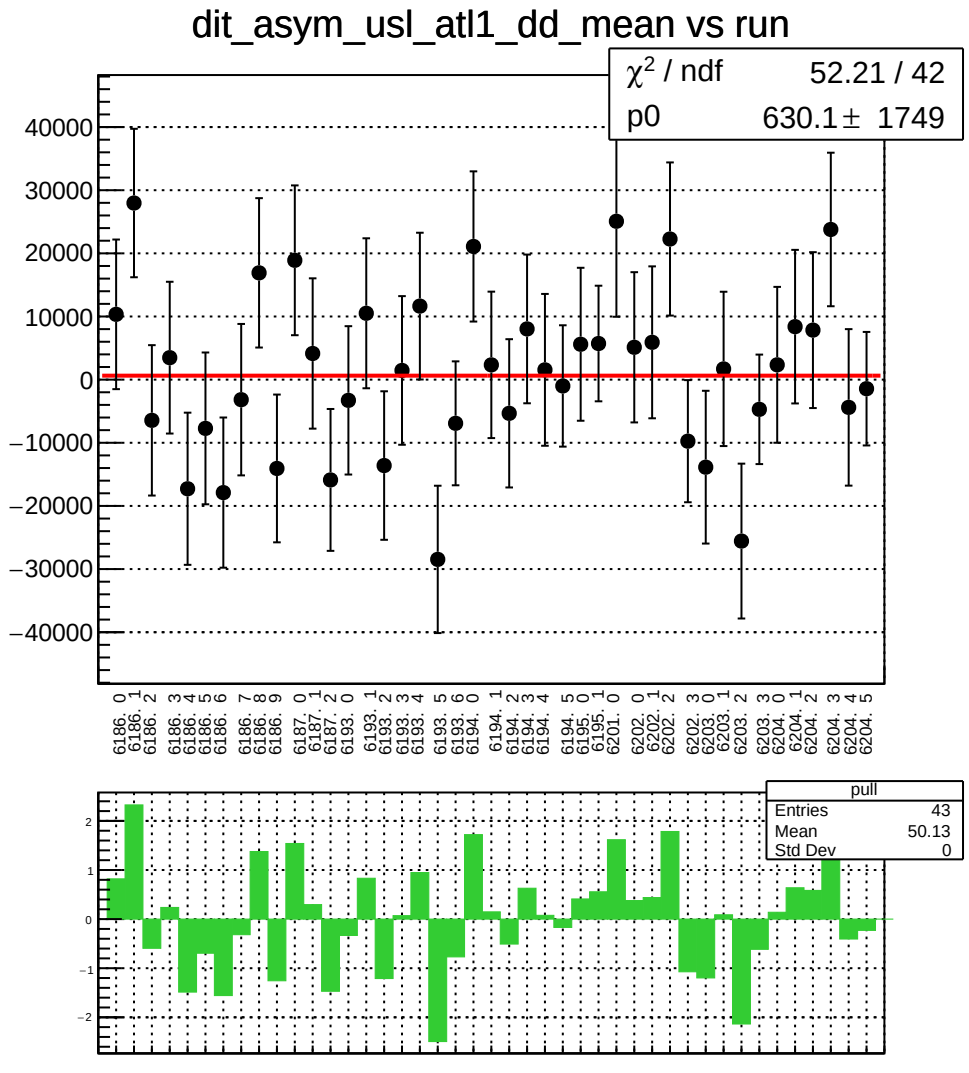
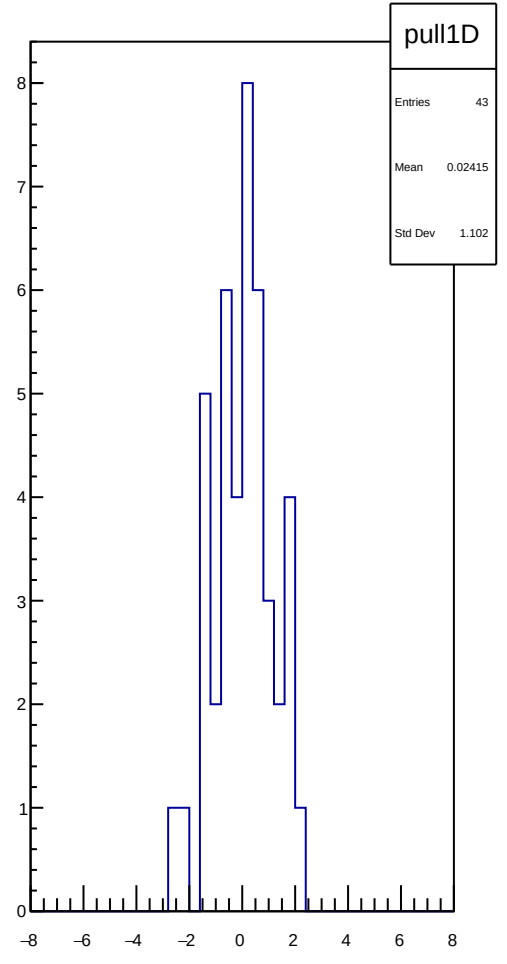
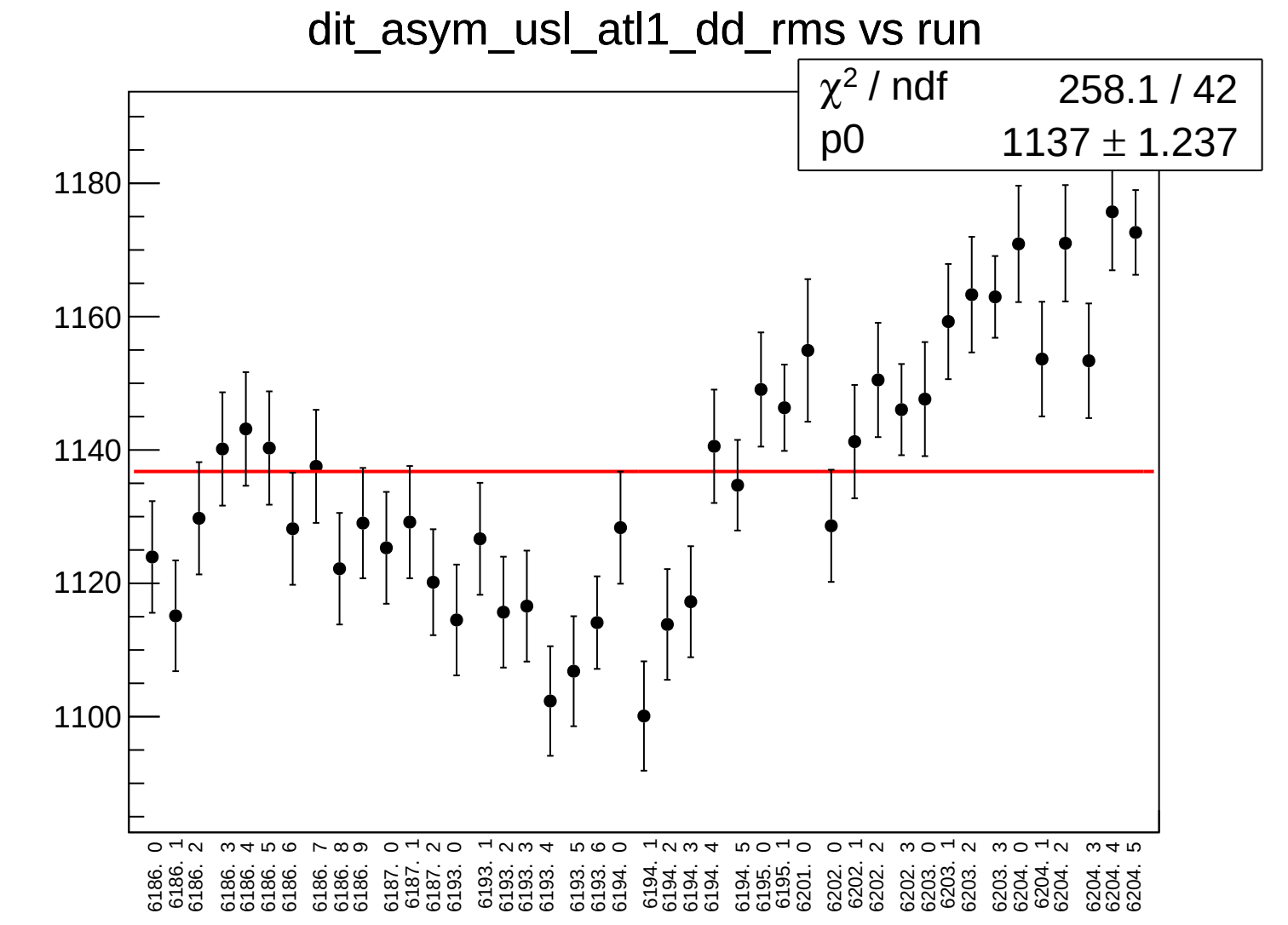
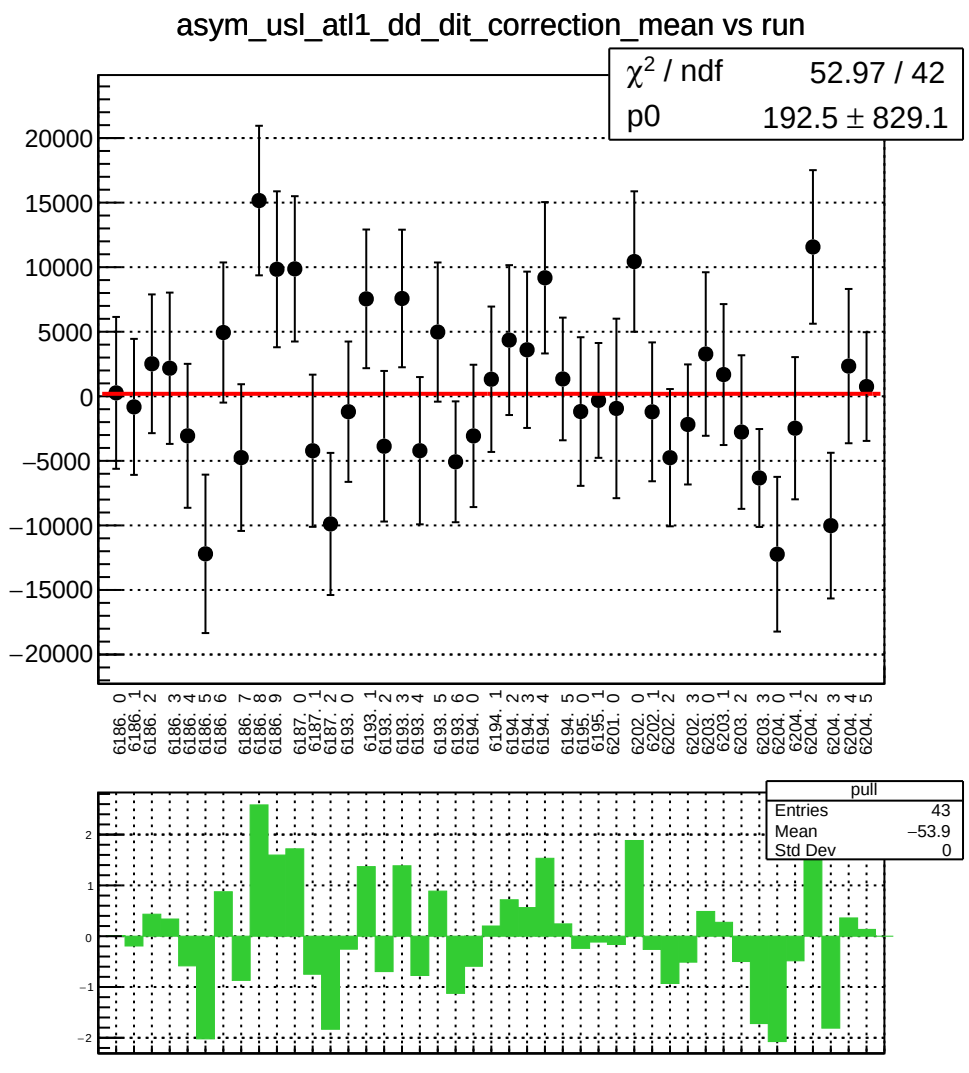
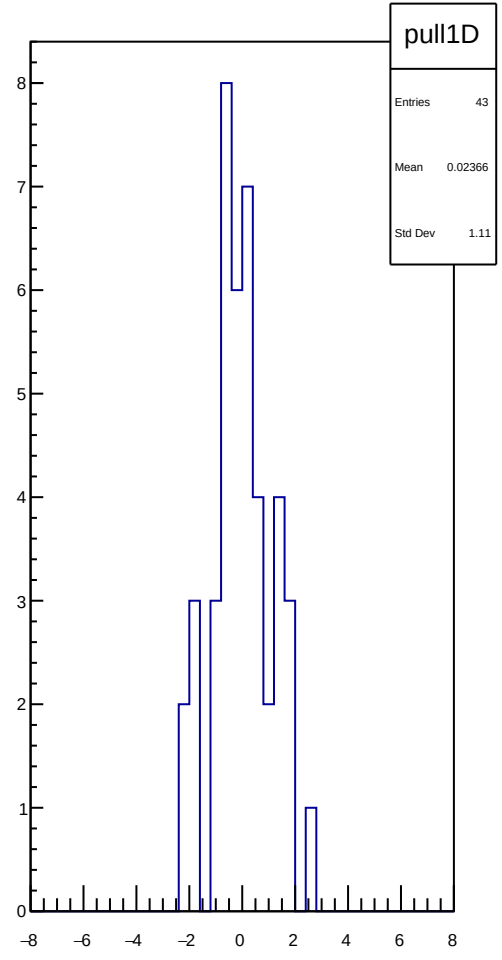
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

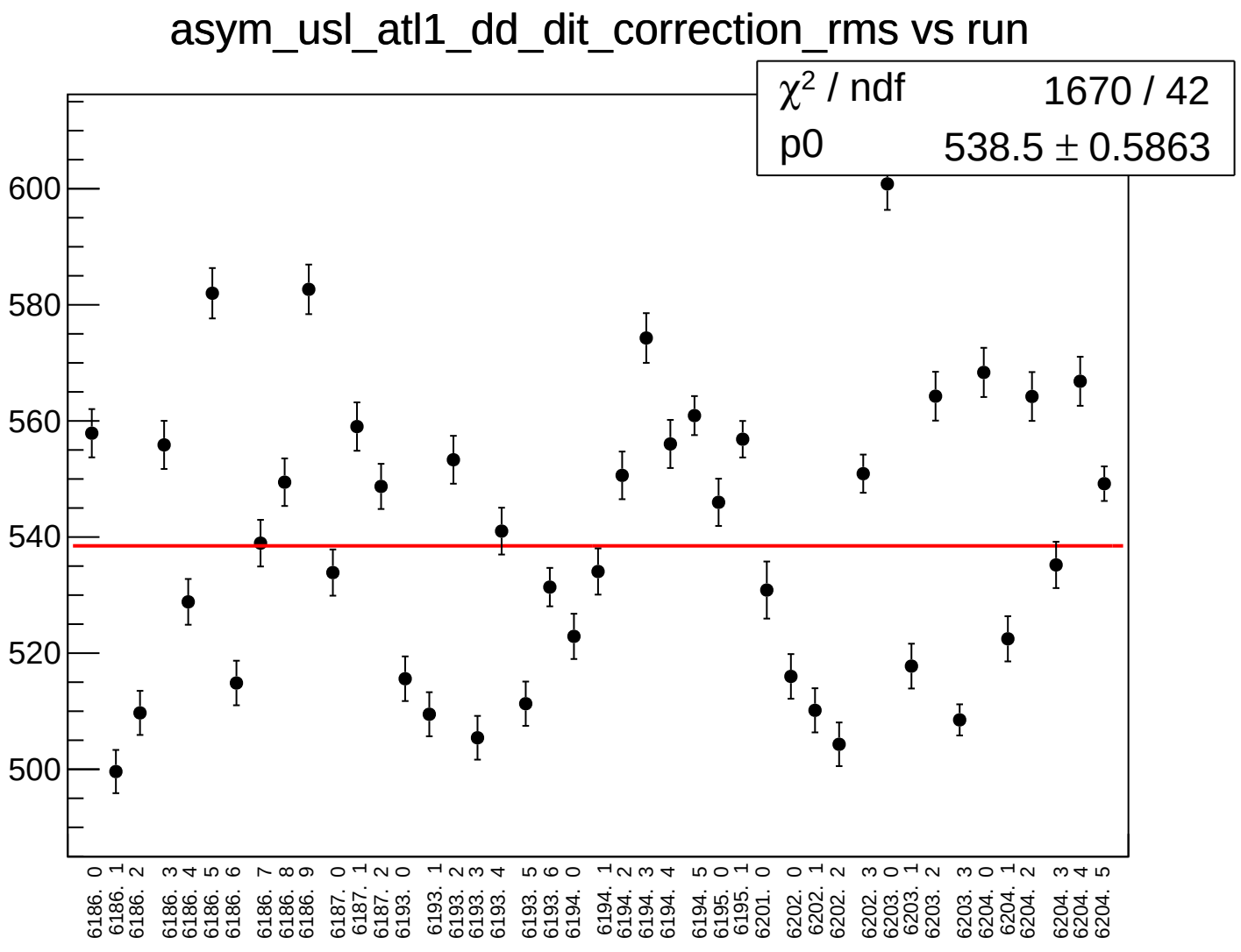

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 52.21 / 42
p0 630.1 ± 1749
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 50.13
Std Dev 0
2
1
0
−1
−2

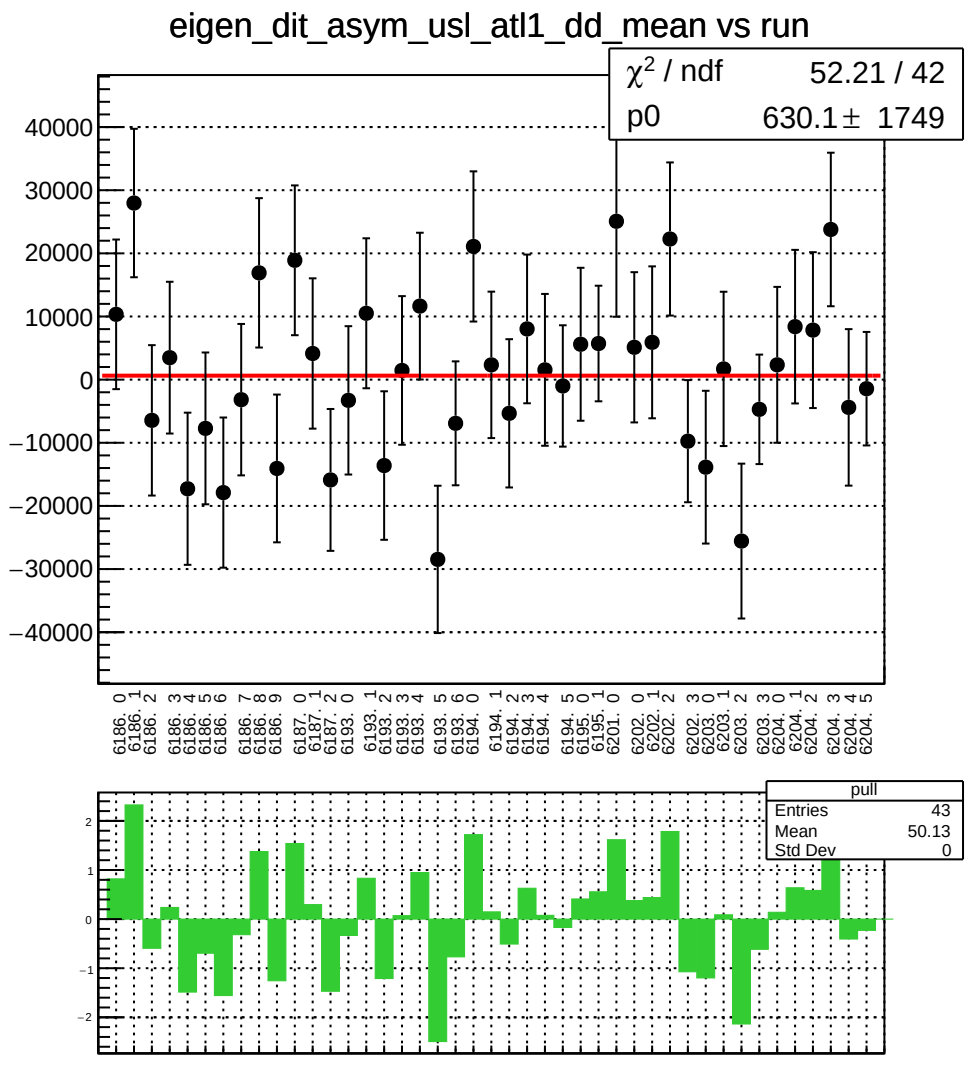

pull1D
Entries 43
Mean 0.02415
Std Dev 1.102
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

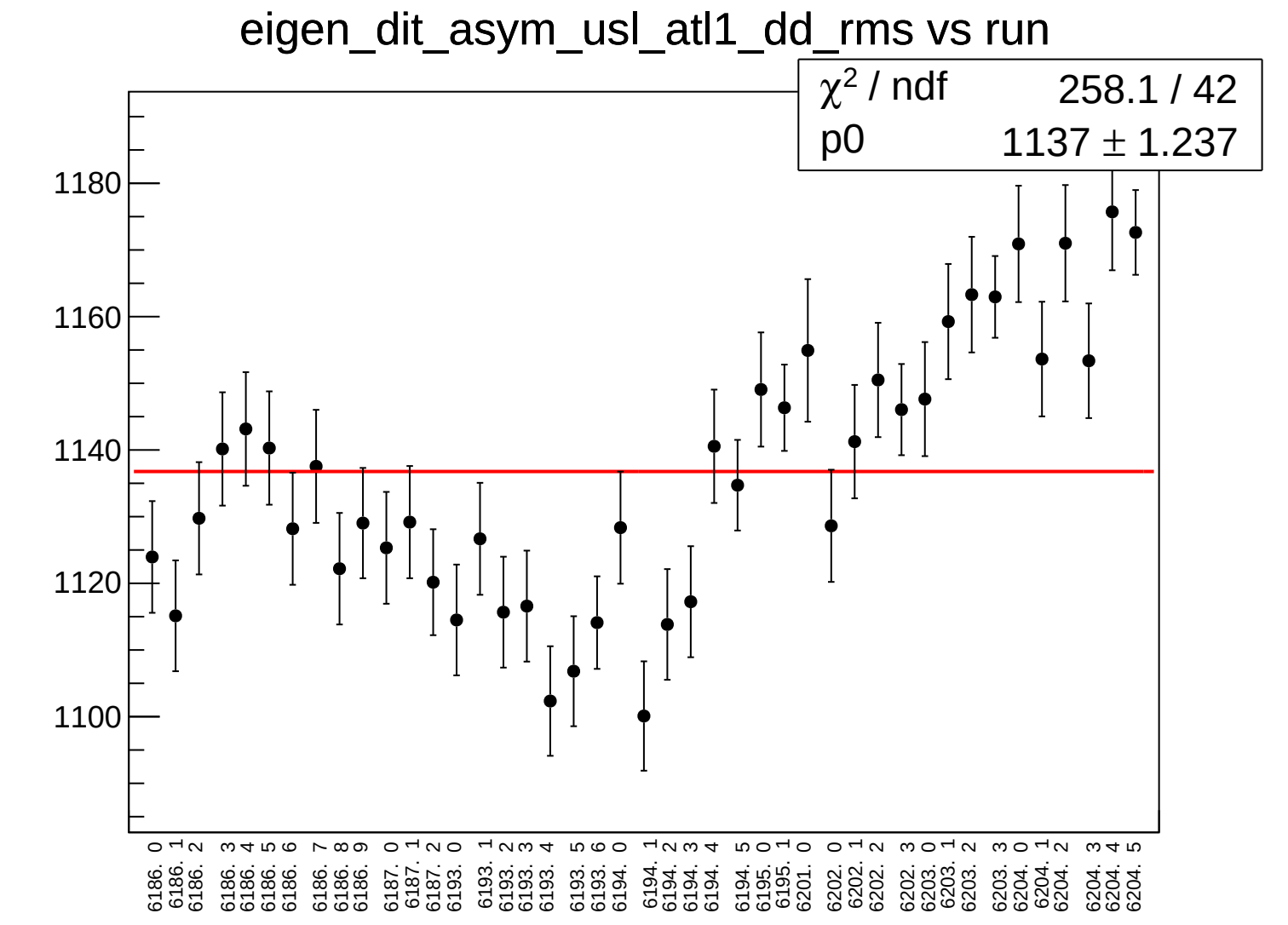

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 258.1 / 42
p0 1137 ± 1.237
1180
1160
1140
1120
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

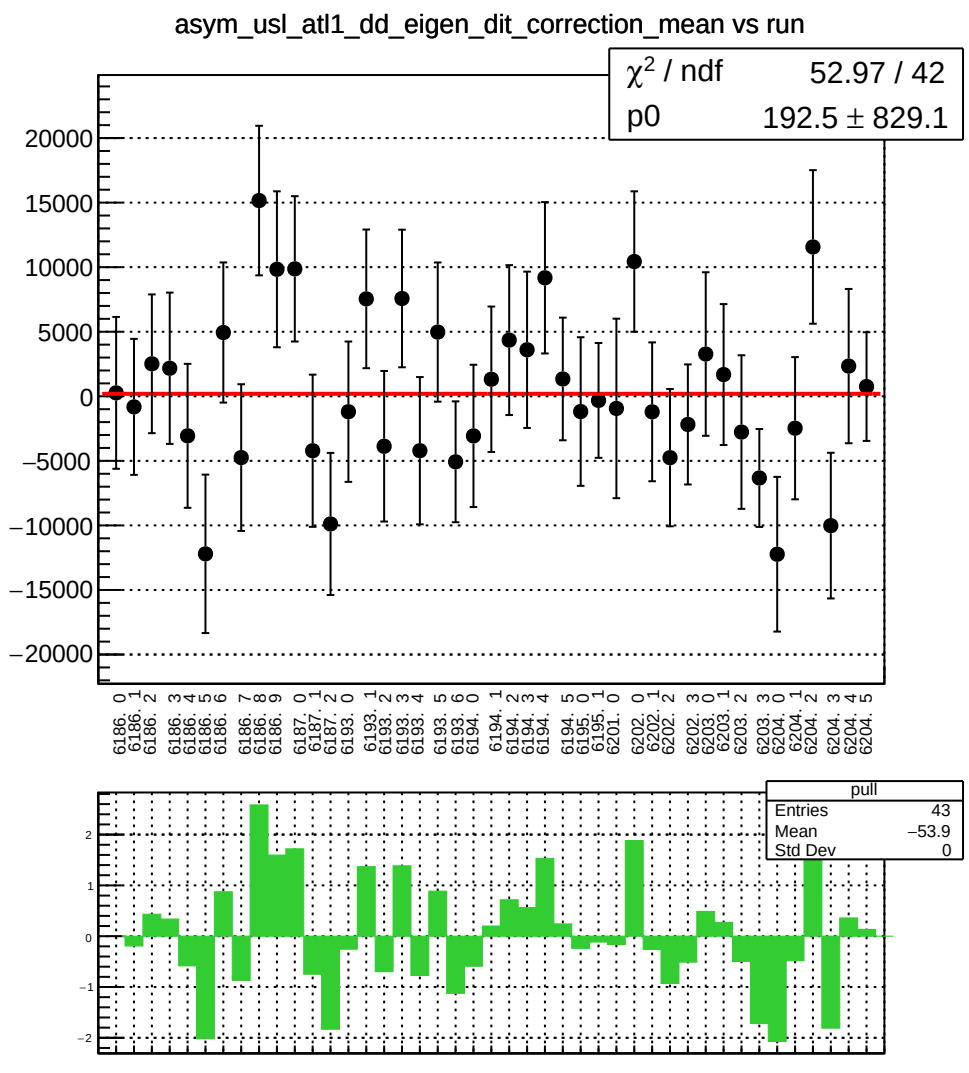

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 52.97 / 42
p0 192.5 ± 829.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −53.9
Std Dev 0
2
1
0
−1
−2

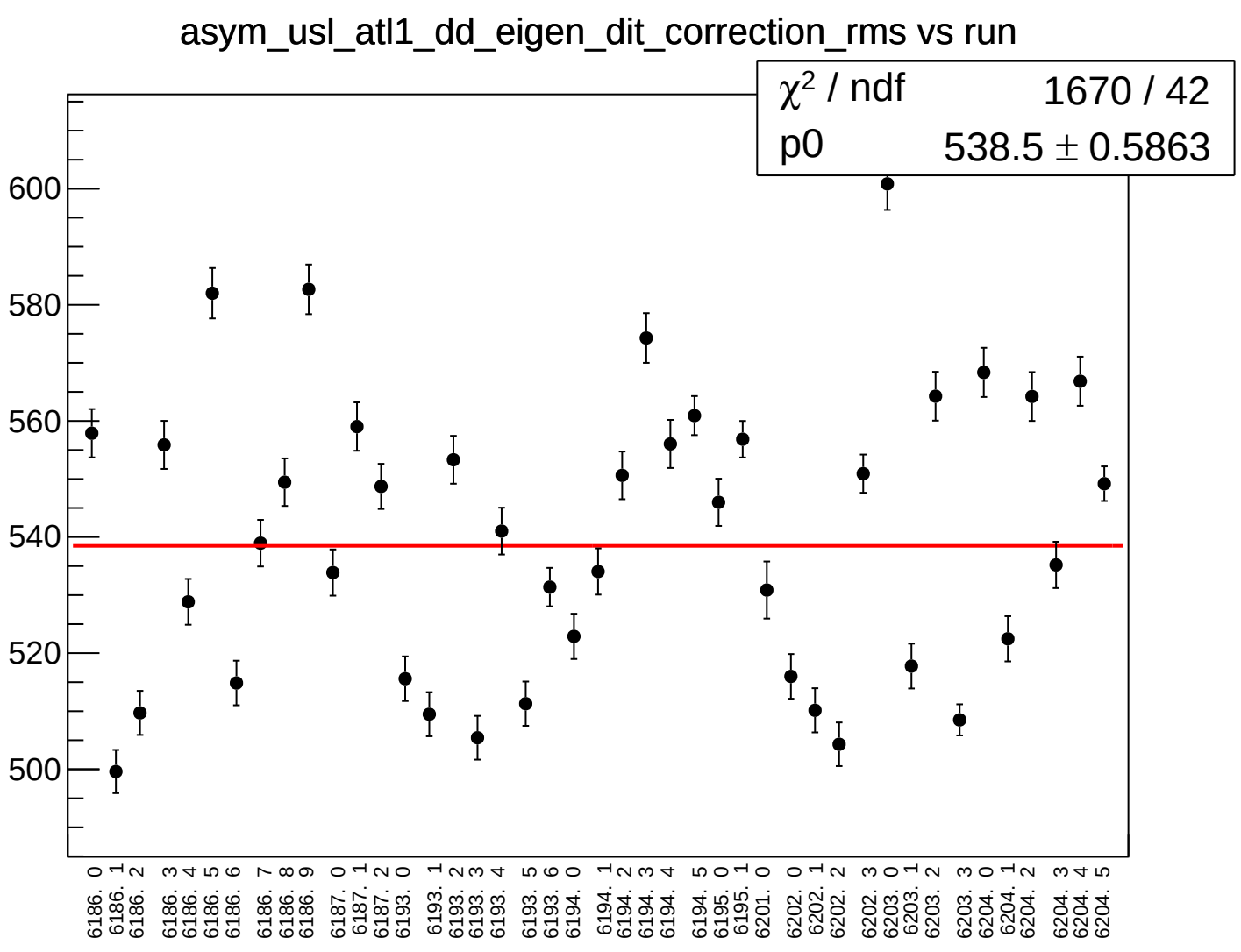

pull1D
Entries 43
Mean 0.02366
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

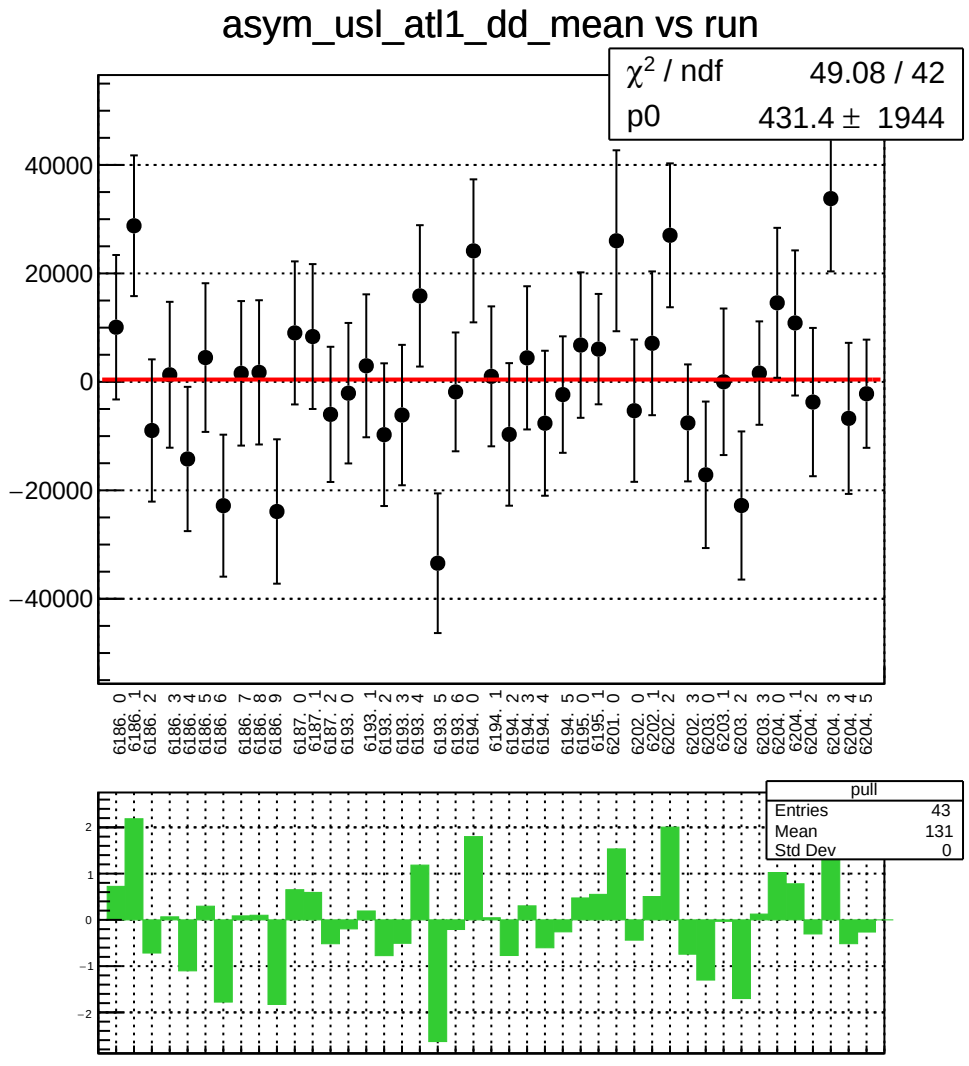

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1670 / 42
p0 538.5 ± 0.5863
600
580
560
540
520
500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

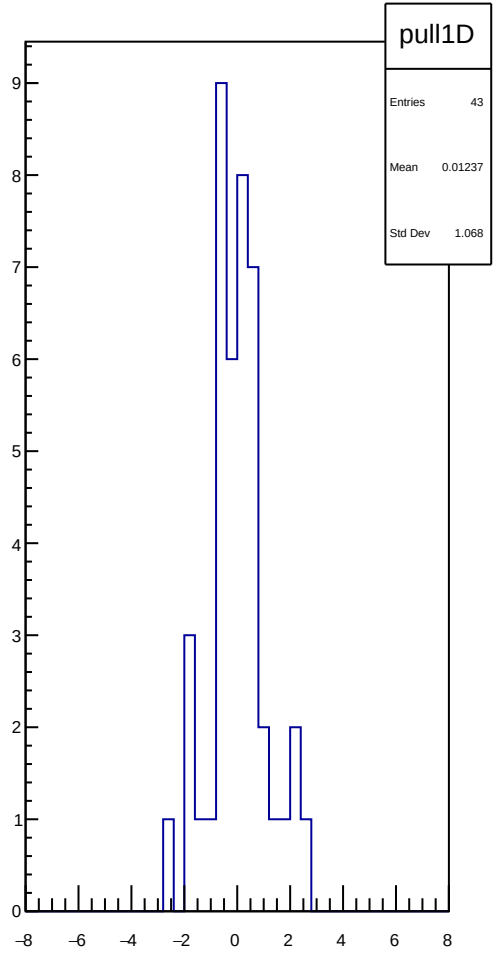

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 52.21 / 42
p0 630.1 ± 1749
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 50.13
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02415
Std Dev 1.102
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

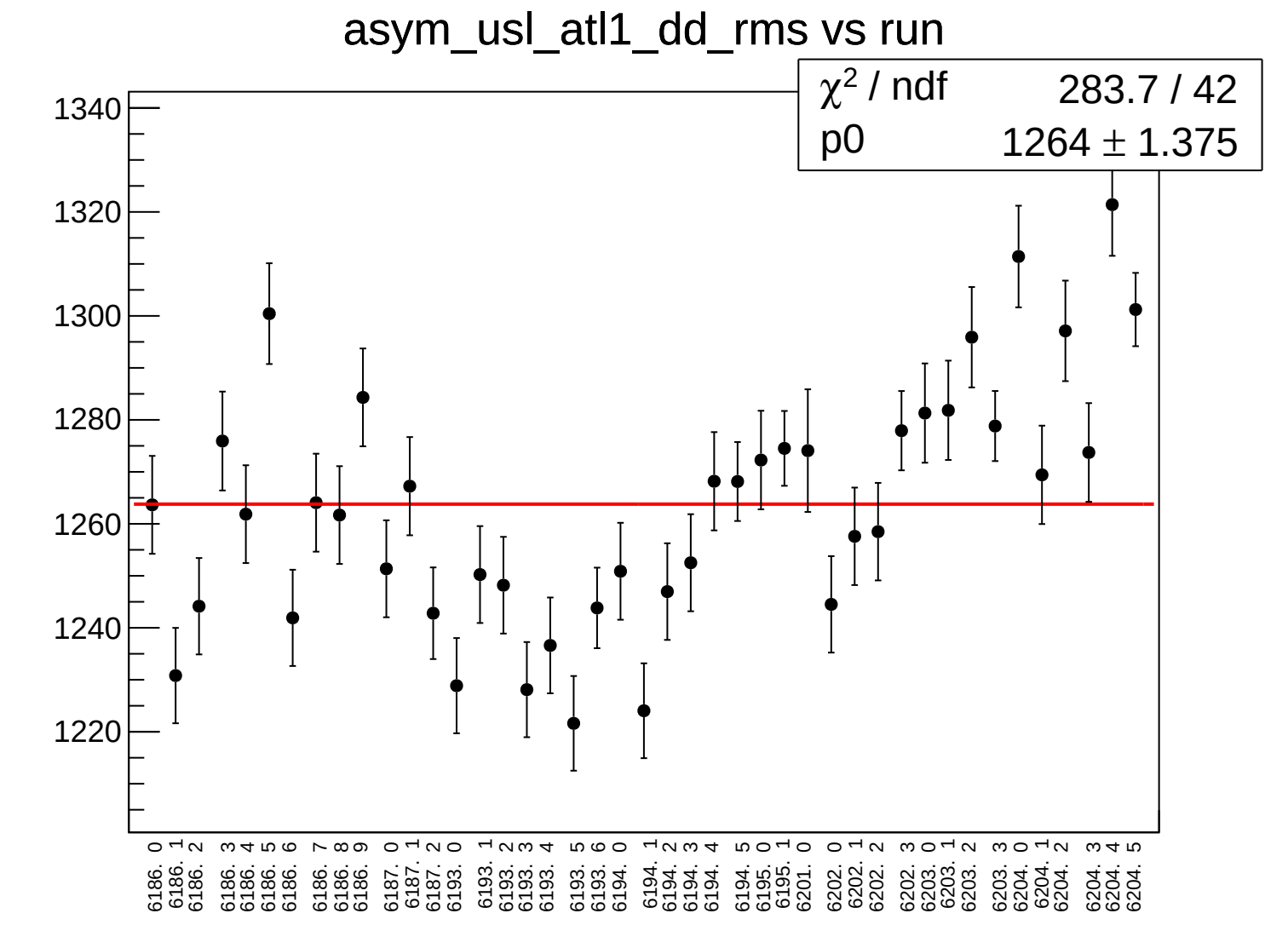

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 258.1 / 42
p0 1137 ± 1.237
1180
1160
1140
1120
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

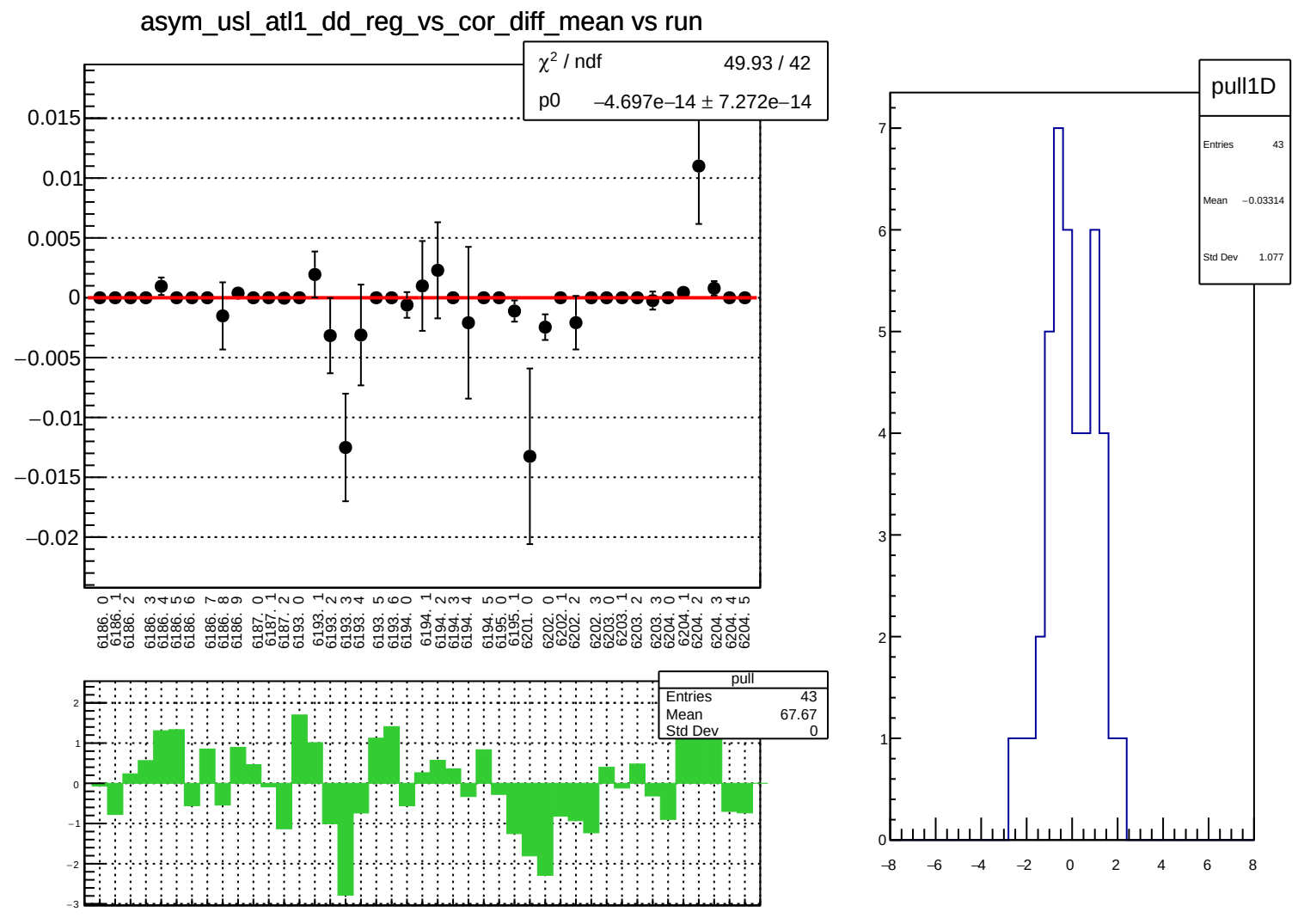

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 52.97 / 42
p0 192.5 ± 829.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −53.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02366
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

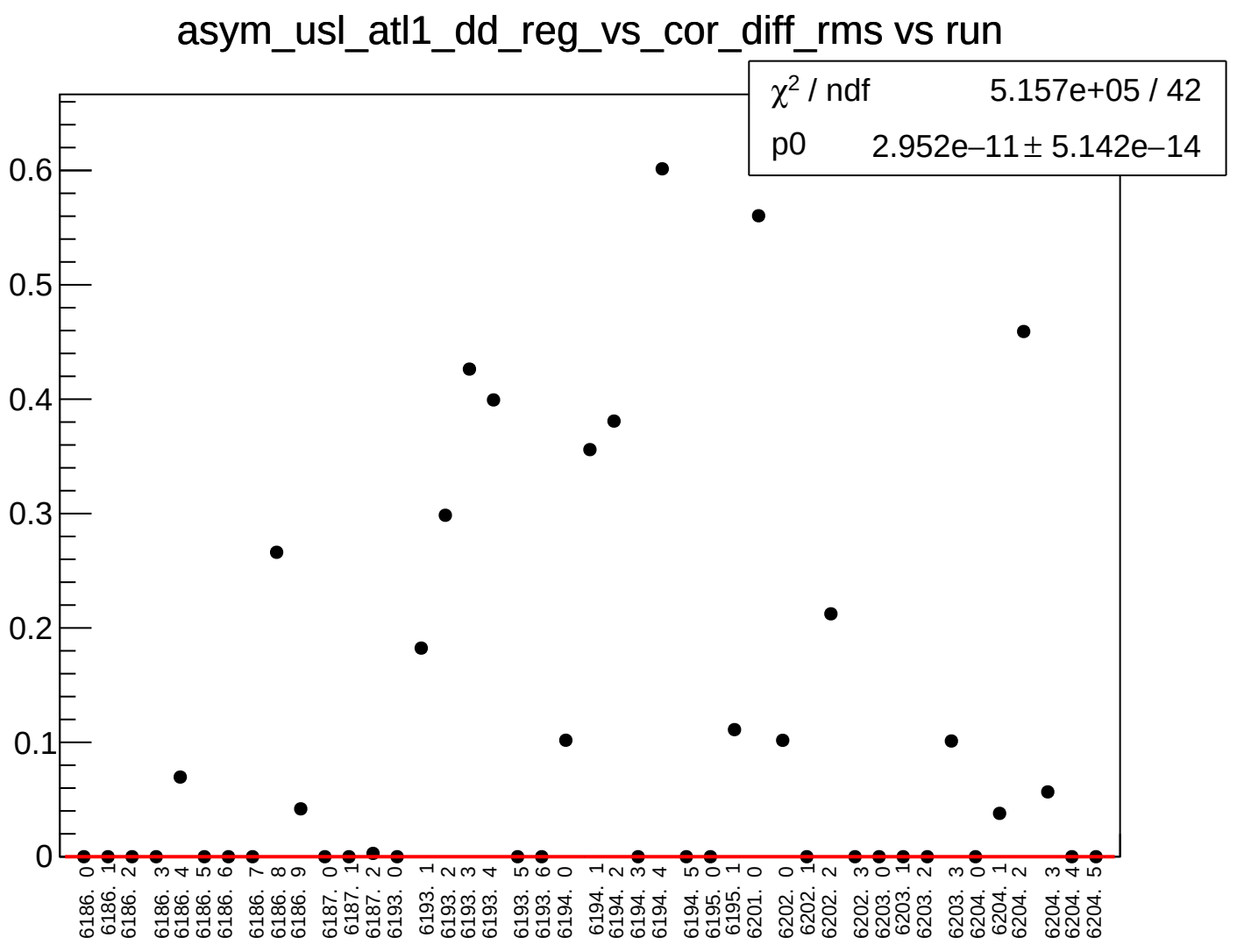

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1670 / 42
p0 538.5 ± 0.5863
600
580
560
540
520
500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

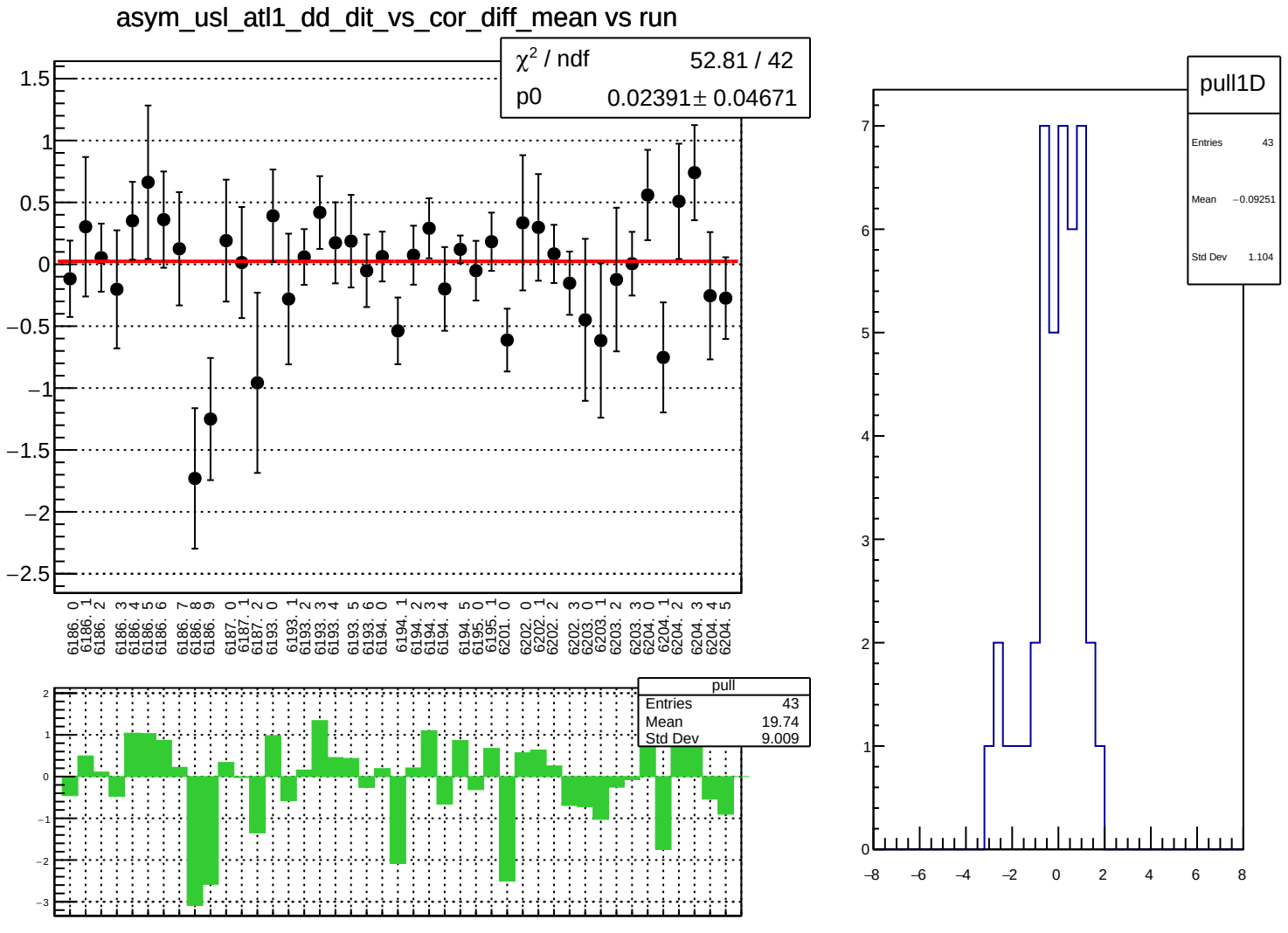

asym_usl_atl1_dd_mean vs run
χ² / ndf 49.08 / 42
p0 431.4 ± 1944
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 131
Std Dev 0
2
1
0
−1
−2

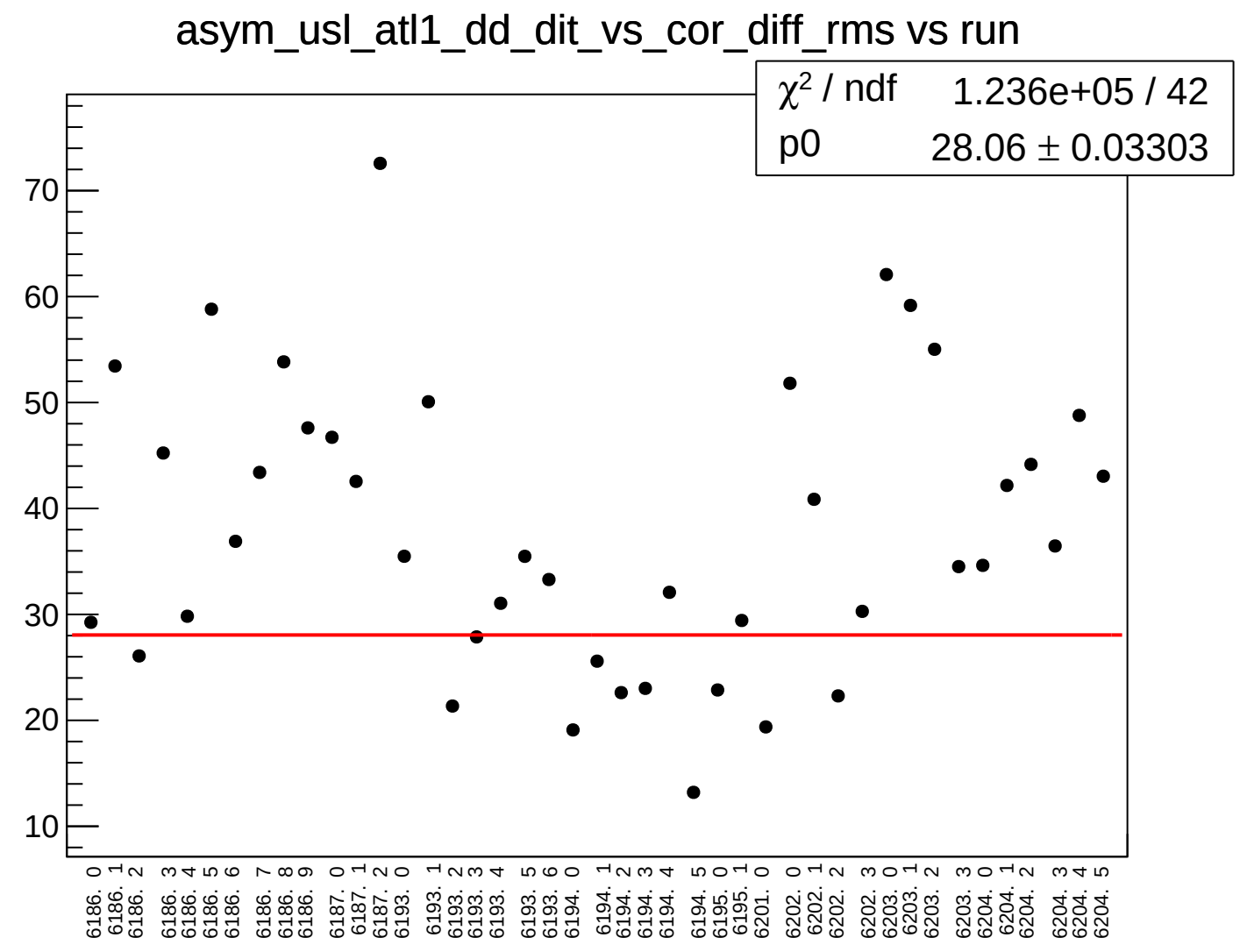

pull1D
Entries 43
Mean 0.01237
Std Dev 1.068
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

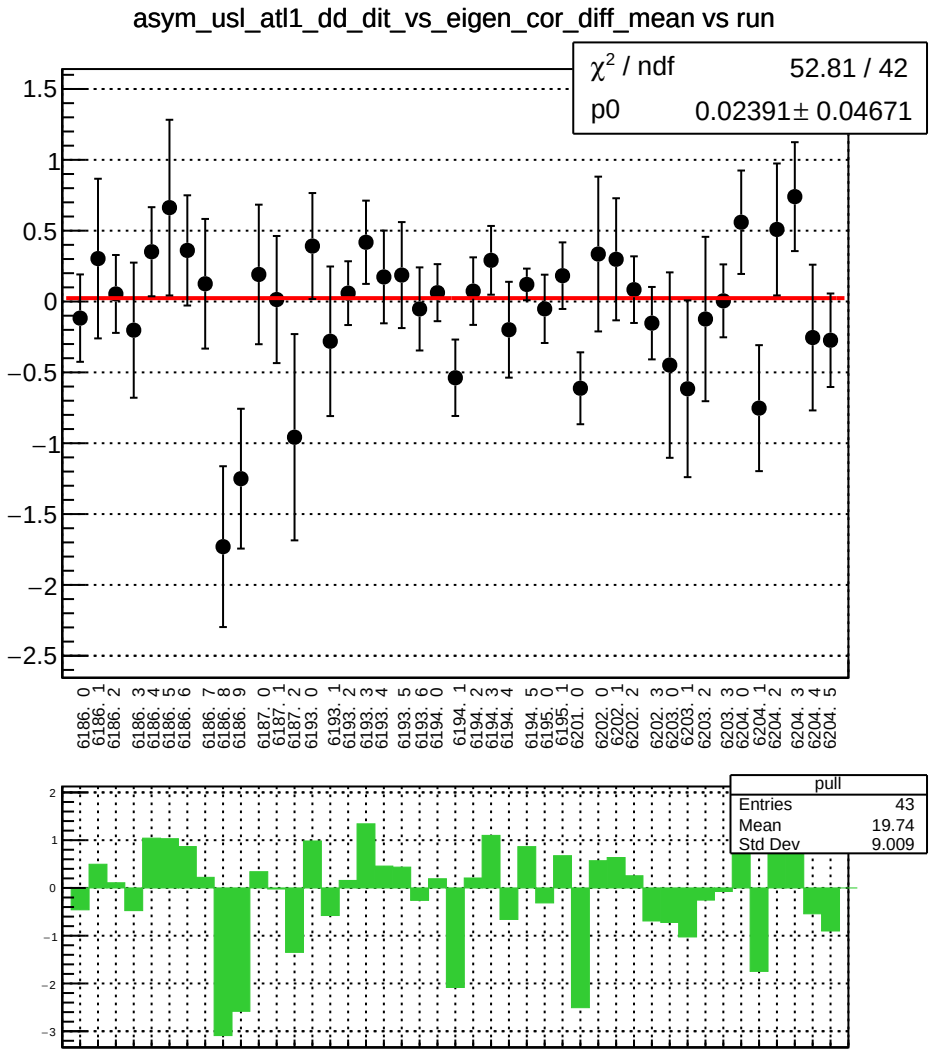

asym_usl_atl1_dd_rms vs run
χ² / ndf 283.7 / 42
p0 1264 ± 1.375
1340
1320
1300
1280
1260
1240
1220
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

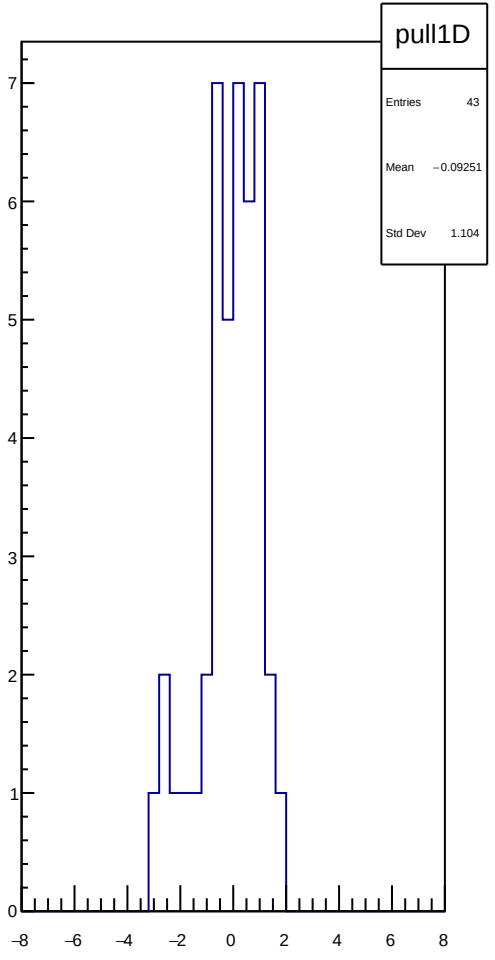

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 49.93 / 42
p0 −4.697e−14 ± 7.272e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 67.67
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.03314
Std Dev 1.077
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

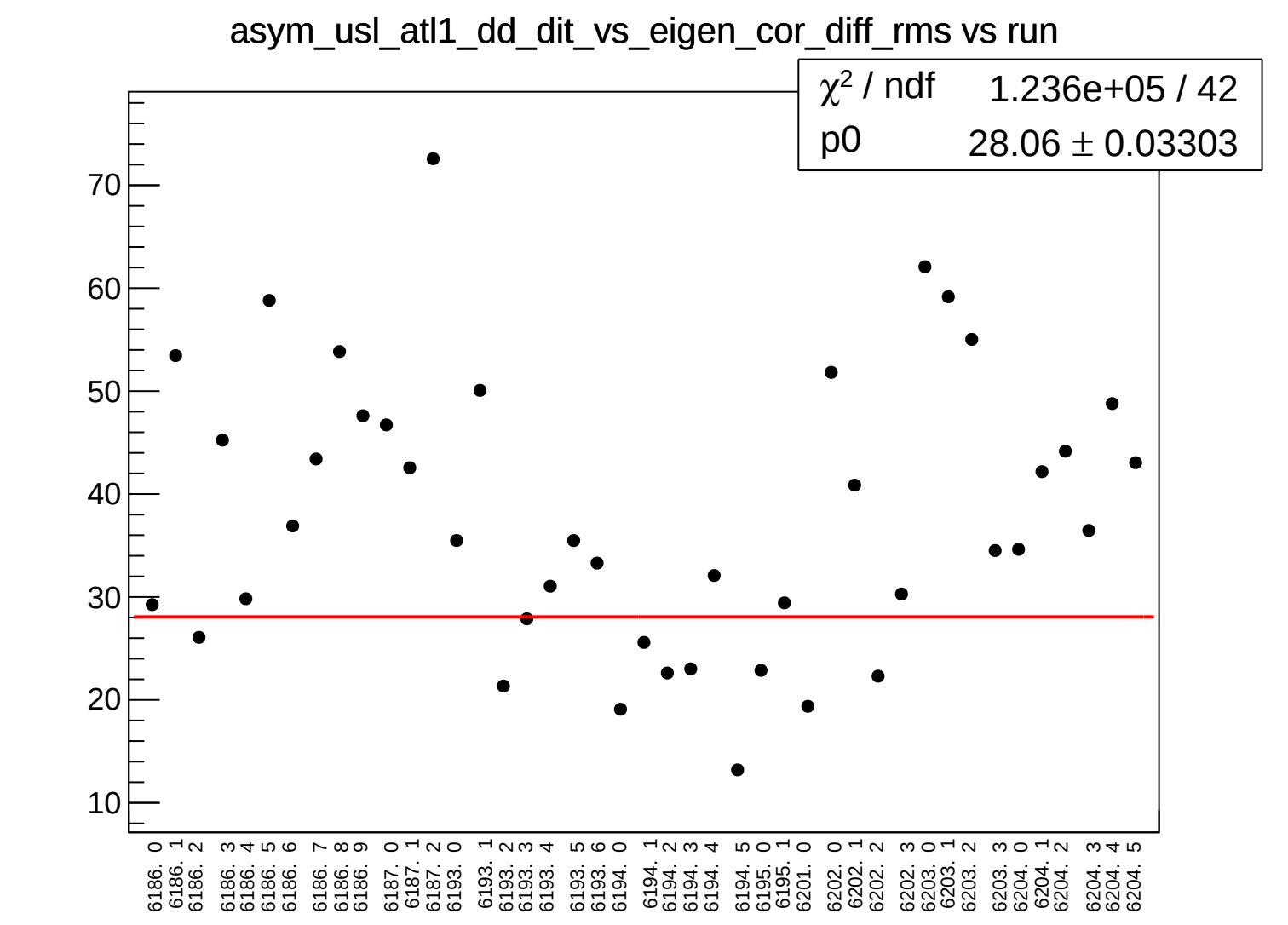

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.157e+05 / 42
p0 2.952e−11 ± 5.142e−14
0
0.1
0.2
0.3
0.4
0.5
0.6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

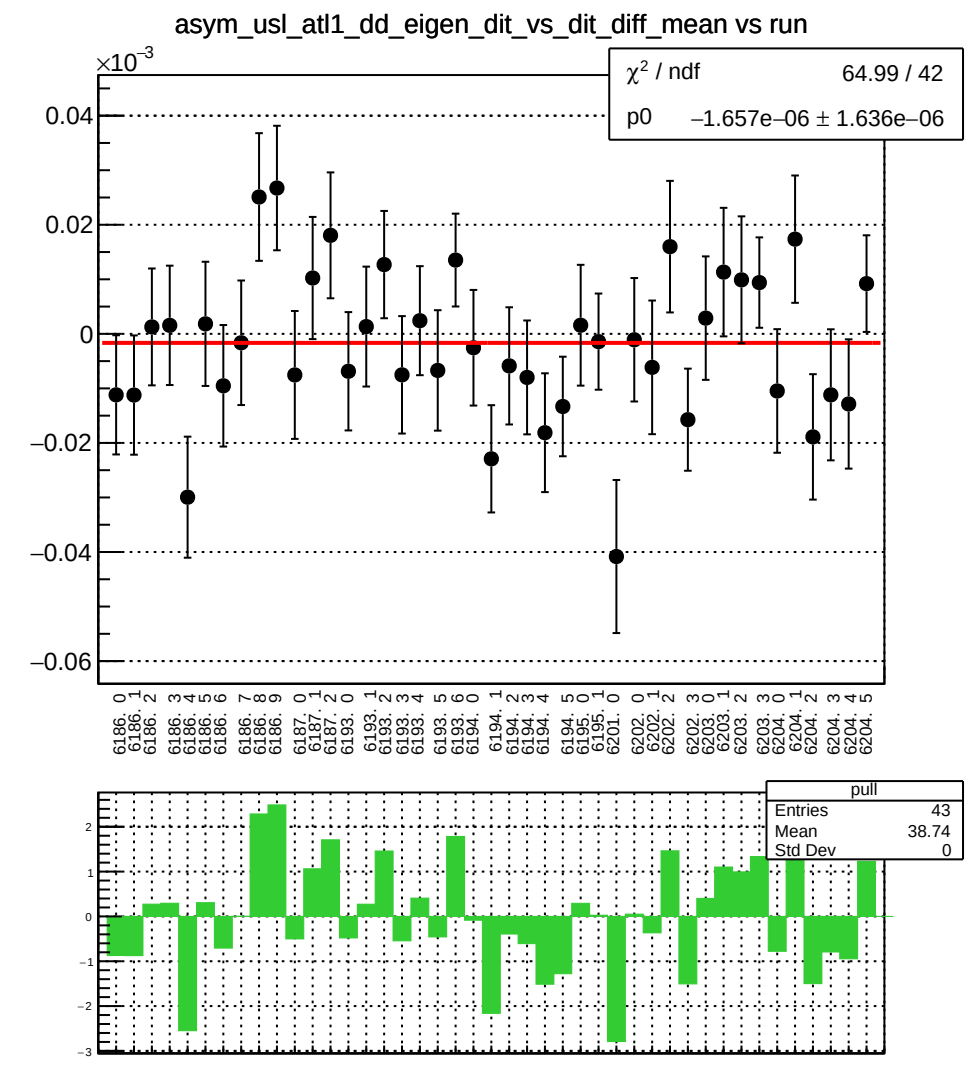

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 52.81 / 42
p0 0.02391± 0.04671
pull
Entries 43
Mean 19.74
Std Dev 9.009
pull1D
Entries 43
Mean −0.09251
Std Dev 1.104

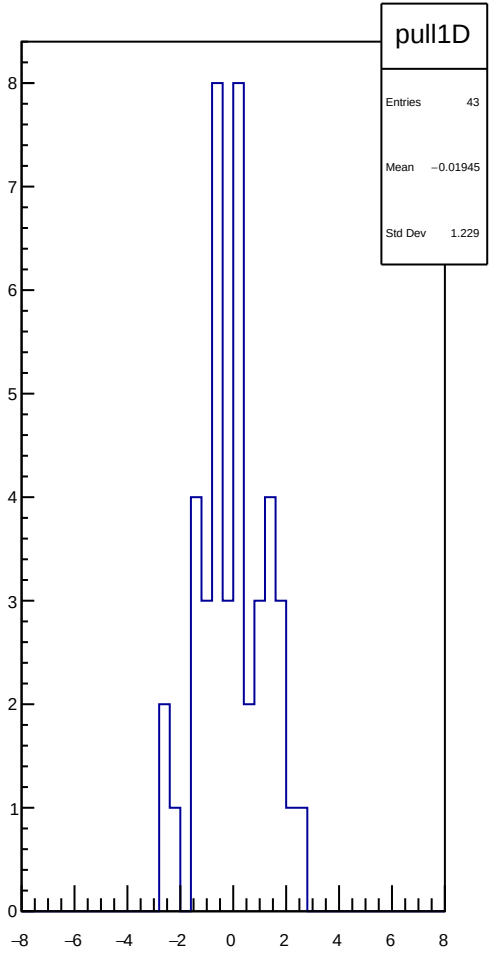

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.236e+05 / 42
p0 28.06 ± 0.03303
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

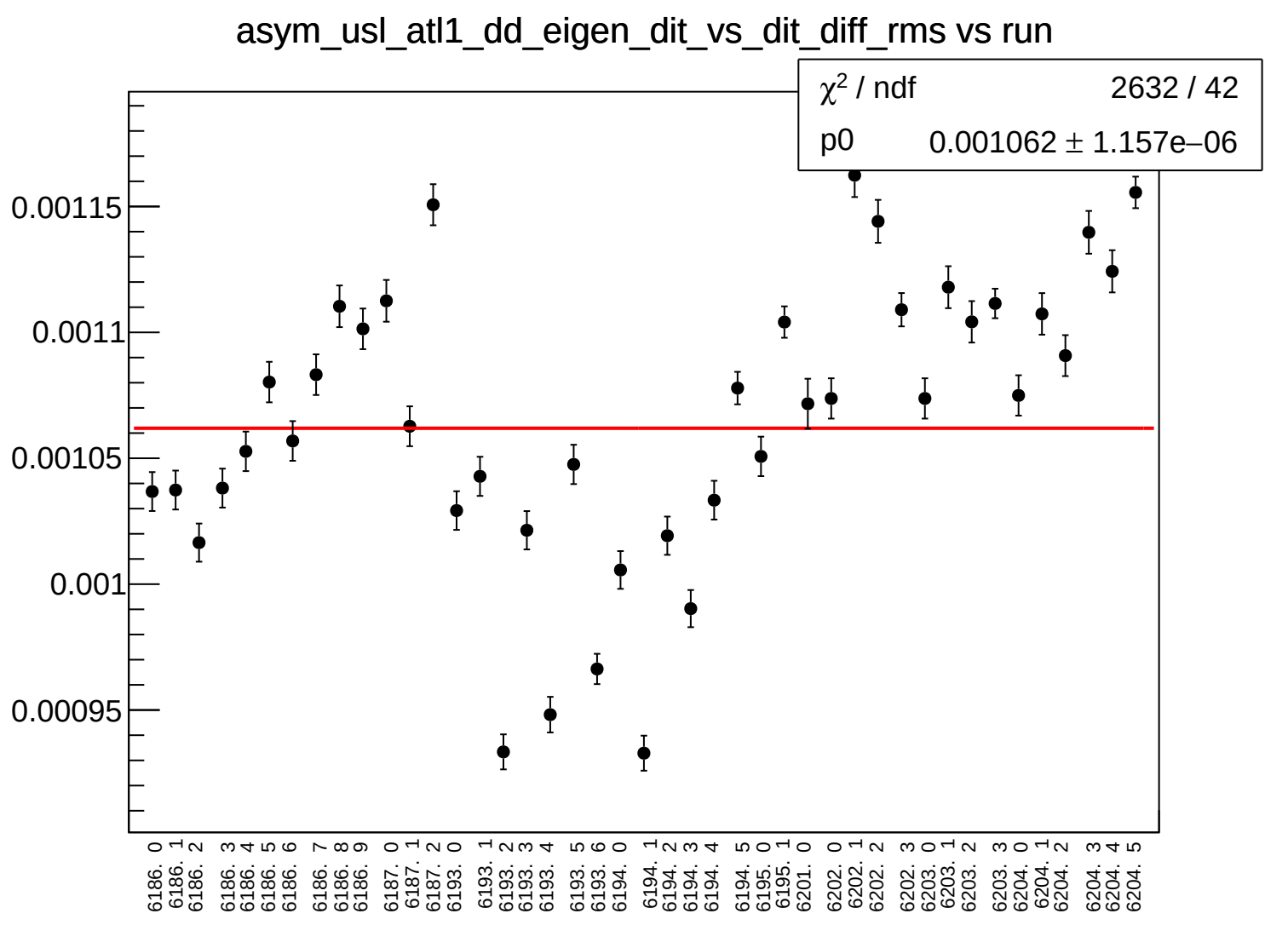

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.81 / 42
p0 0.02391± 0.04671
pull
Entries 43
Mean 19.74
Std Dev 9.009

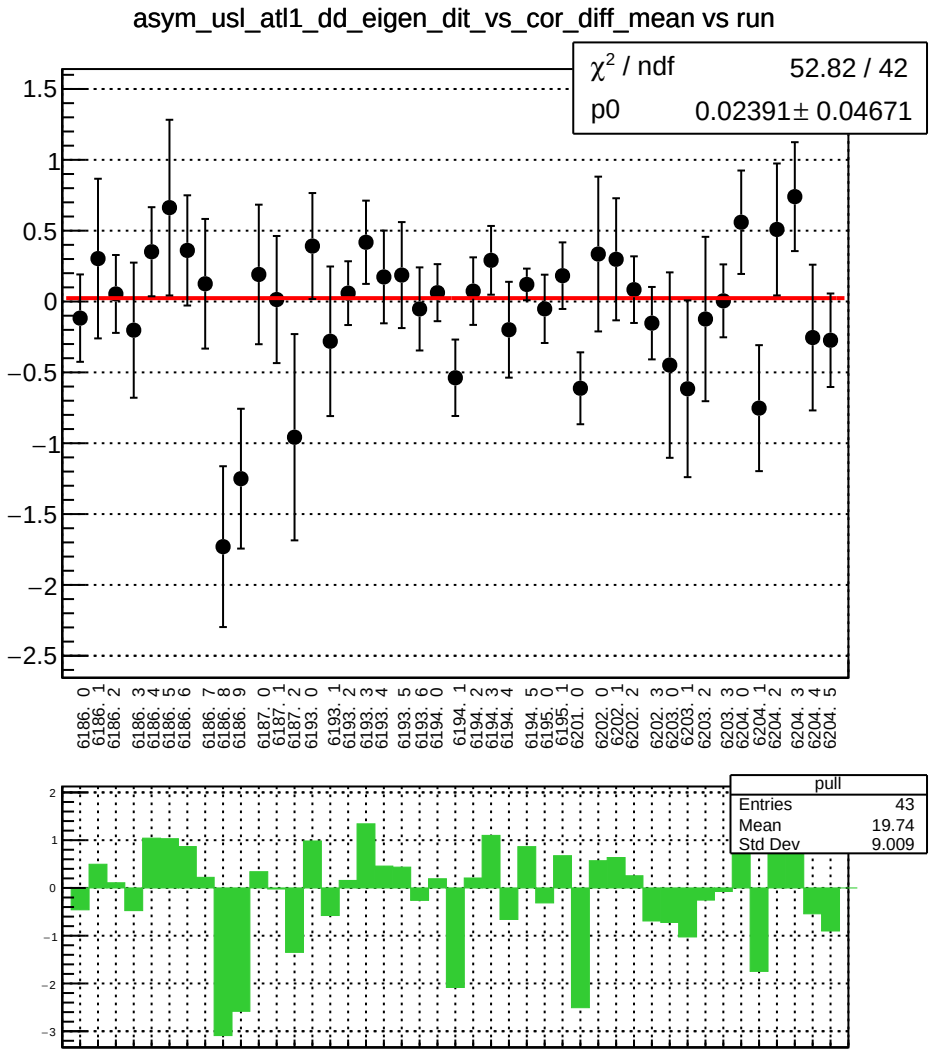

pull1D
Entries 43
Mean −0.09251
Std Dev 1.104

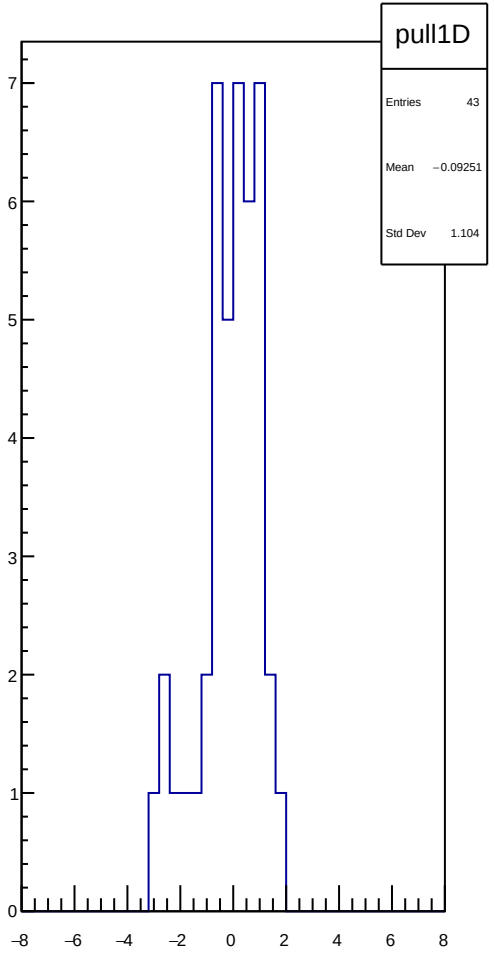

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.236e+05 / 42
p0 28.06 ± 0.03303
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

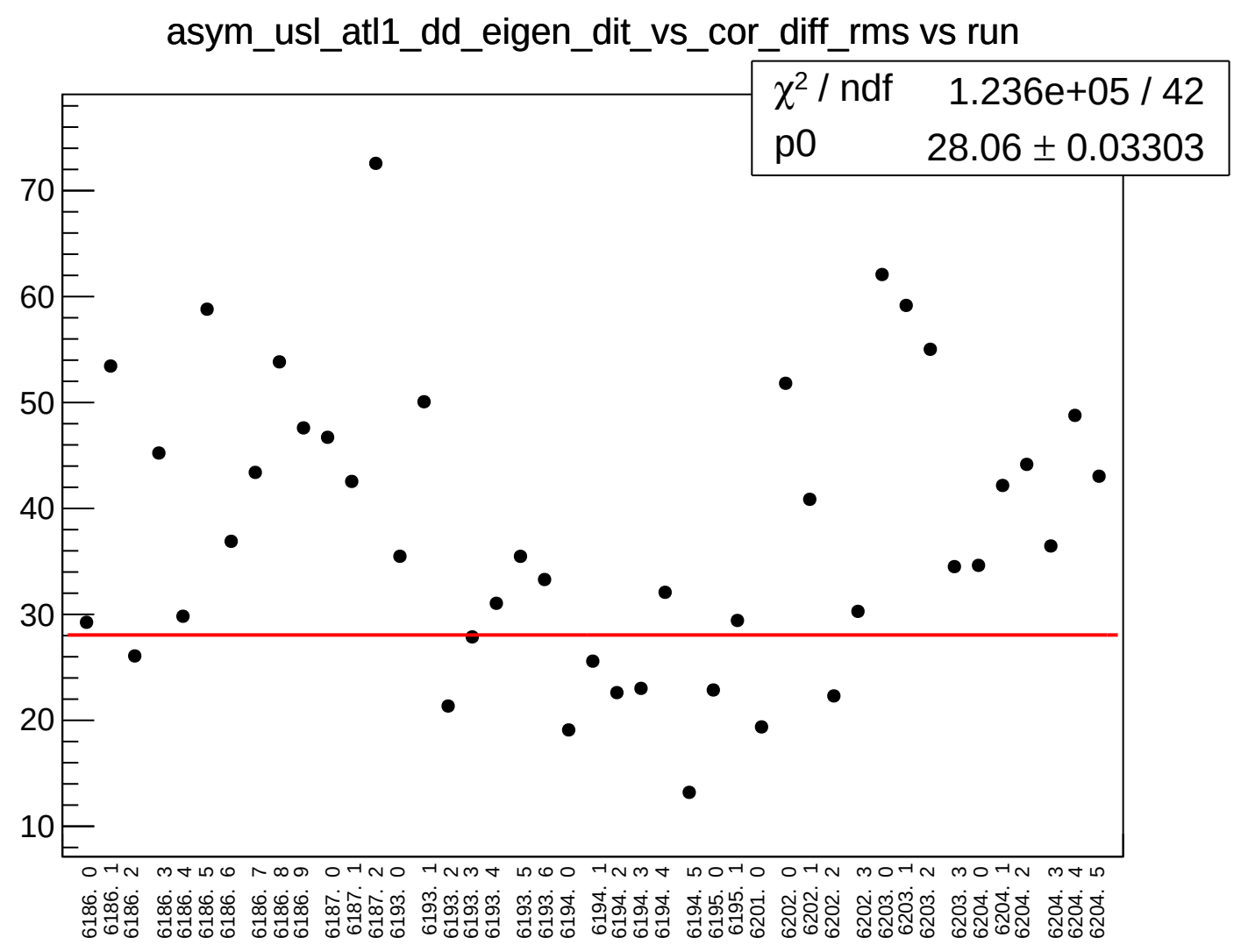

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.99 / 42
p0 −1.657e−06 ± 1.636e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 38.74
Std Dev 0
2
1
0
−1
−2
−3

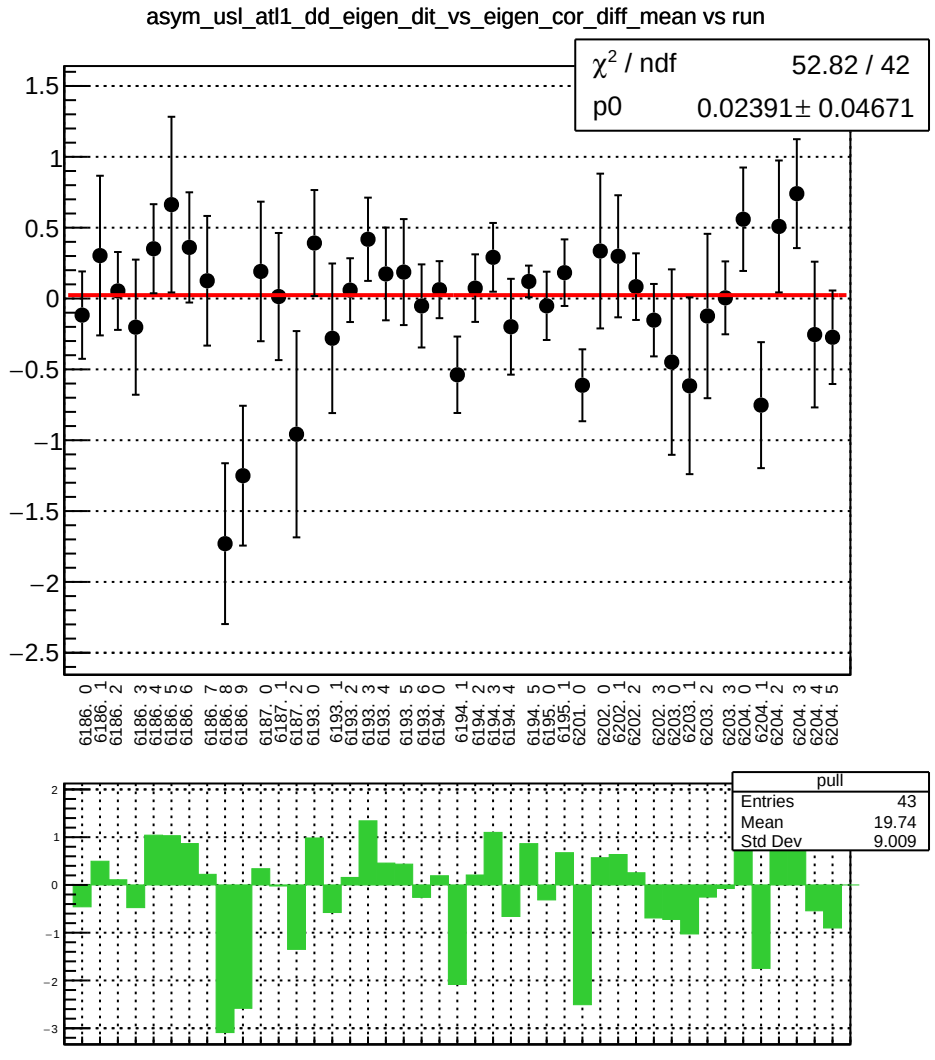

pull1D
Entries 43
Mean −0.01945
Std Dev 1.229
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

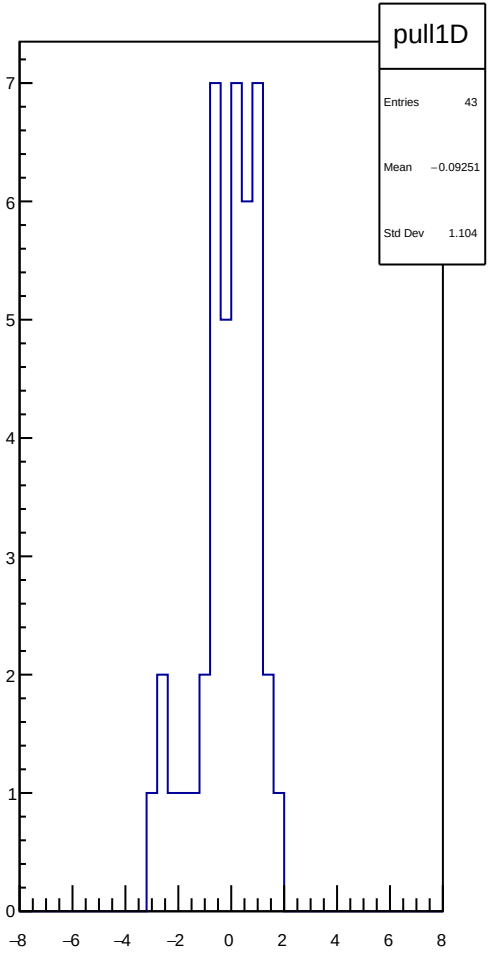

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2632 / 42
p0 0.001062 ± 1.157e−06
0.00115
0.0011
0.00105
0.001
0.00095
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

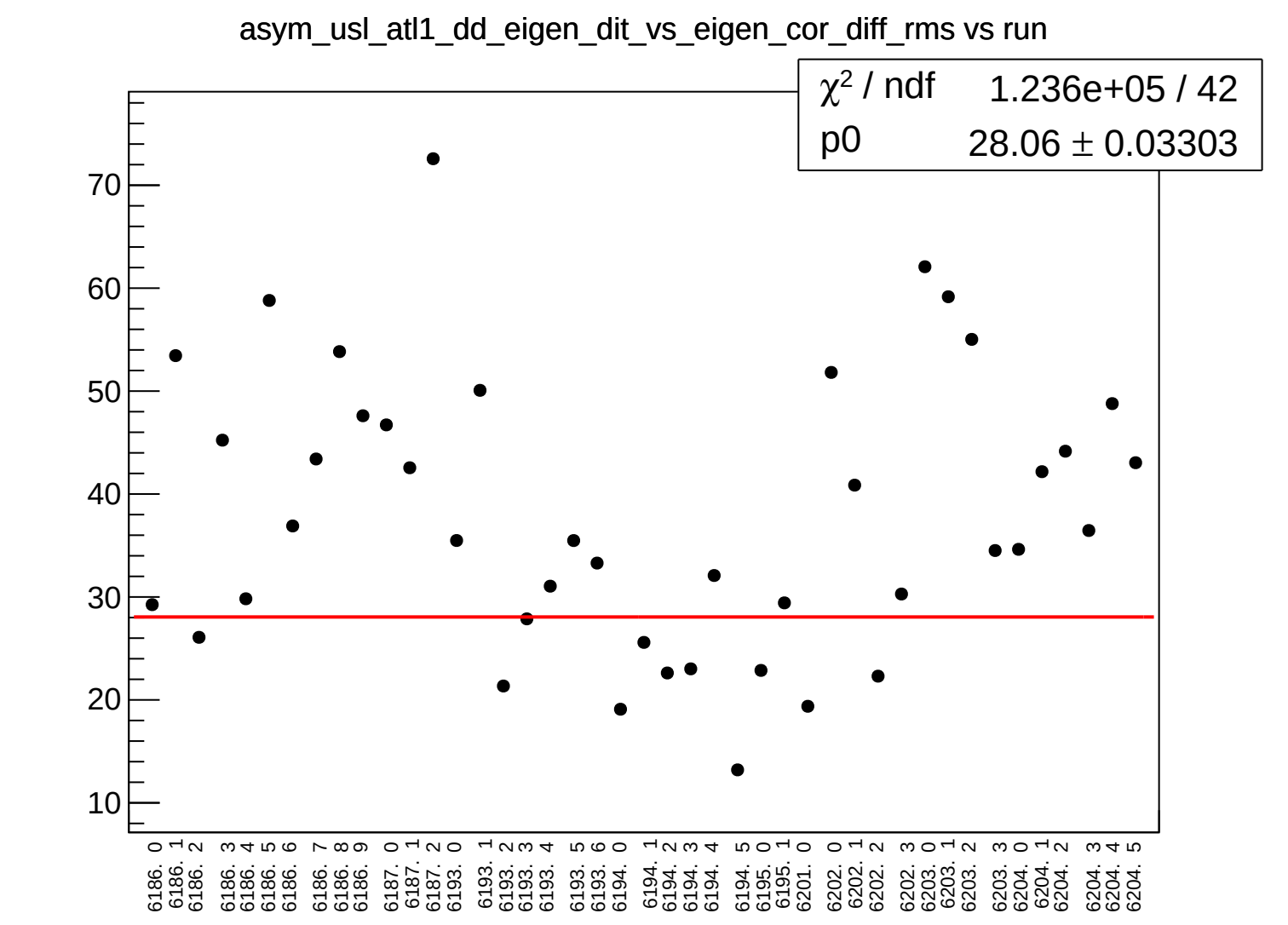

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.82 / 42
p0 0.02391± 0.04671
pull
Entries 43
Mean 19.74
Std Dev 9.009

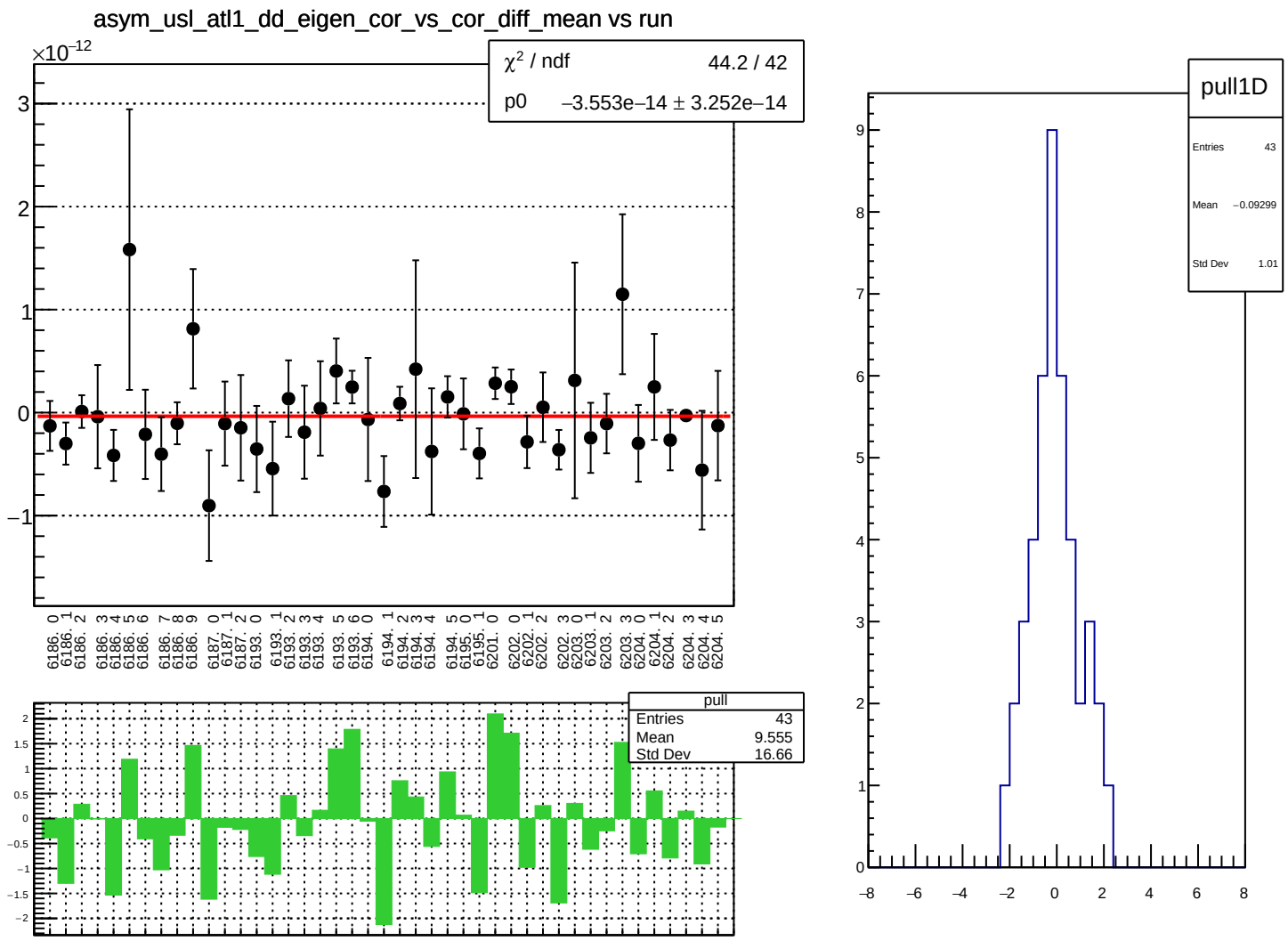

pull1D
Entries 43
Mean −0.09251
Std Dev 1.104

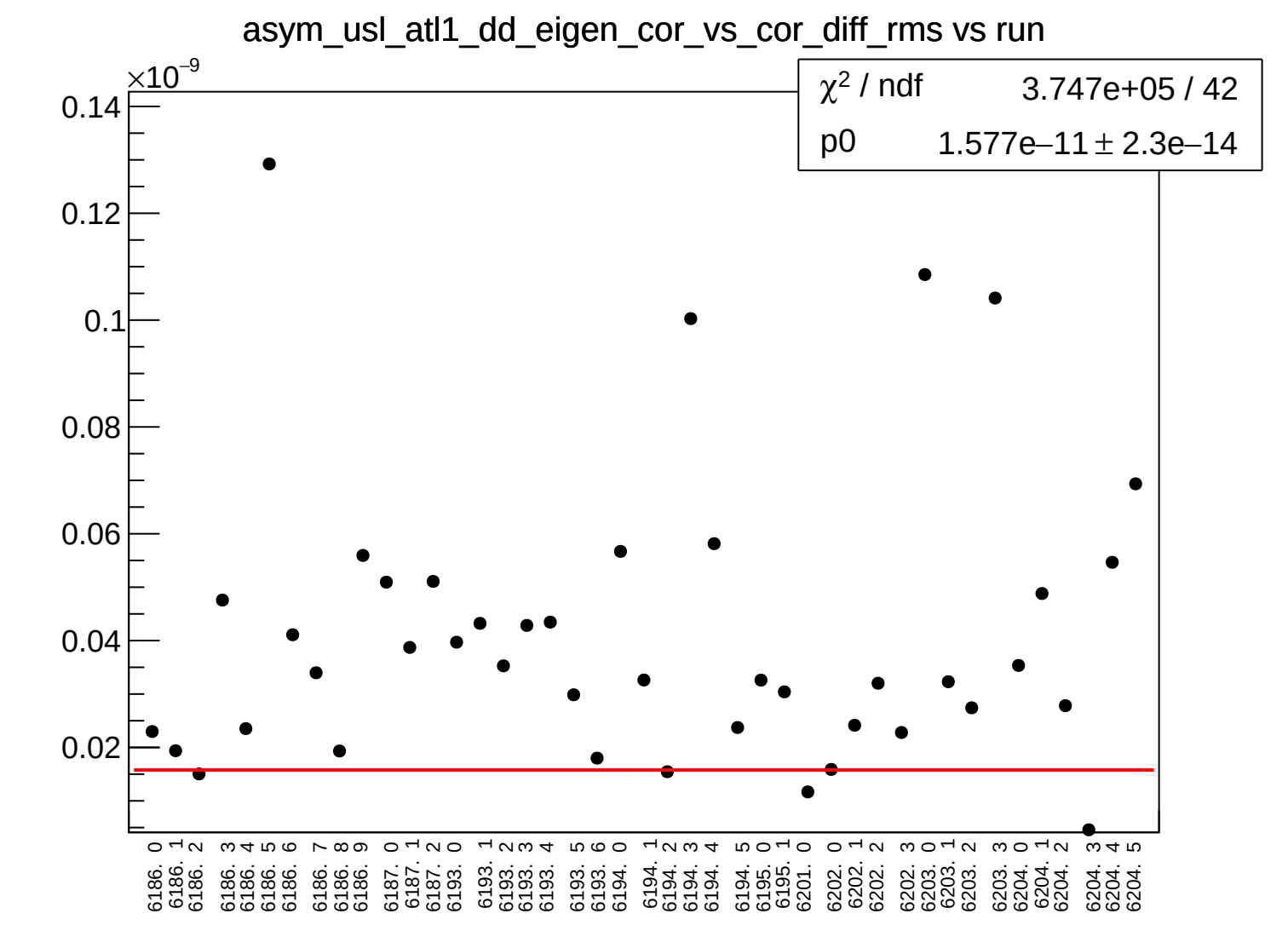

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.236e+05 / 42
p0 28.06 ± 0.03303
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

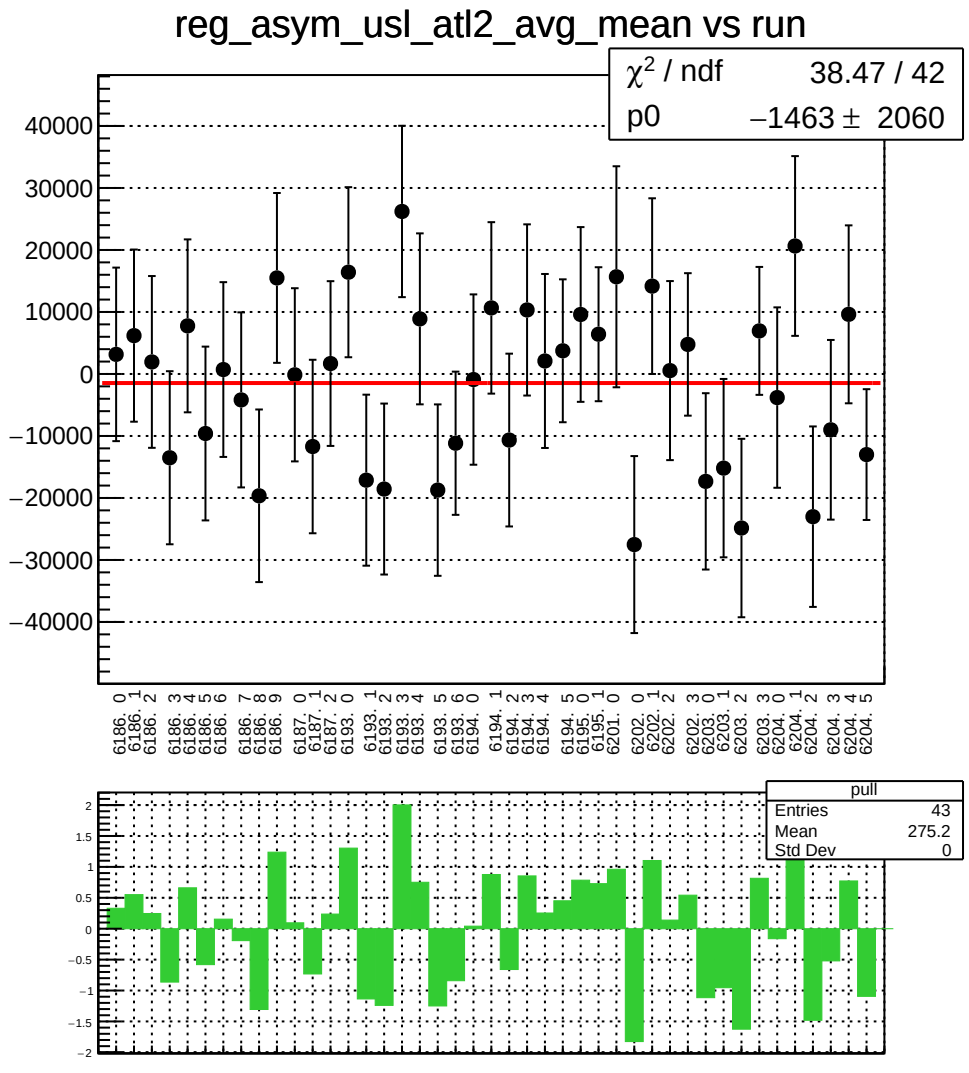

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.82 / 42
p0 0.02391± 0.04671
pull
Entries 43
Mean 19.74
Std Dev 9.009

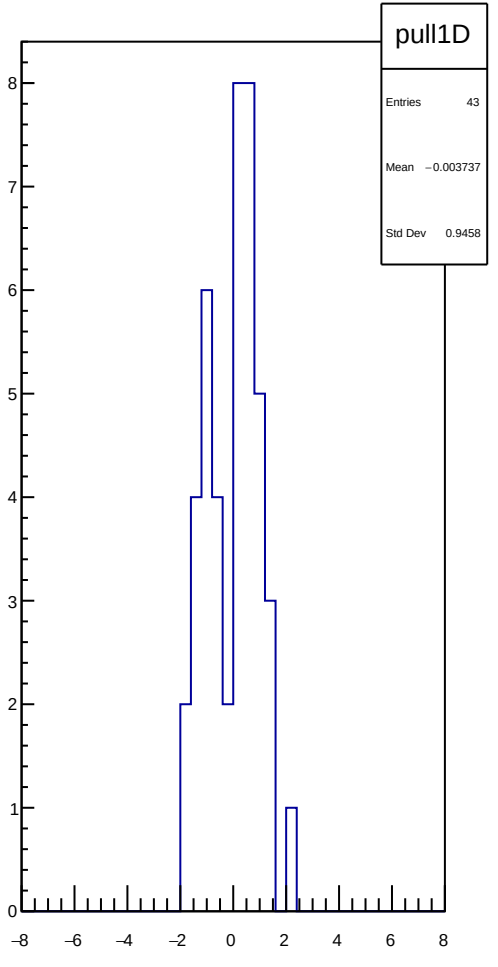

pull1D
Entries 43
Mean −0.09251
Std Dev 1.104

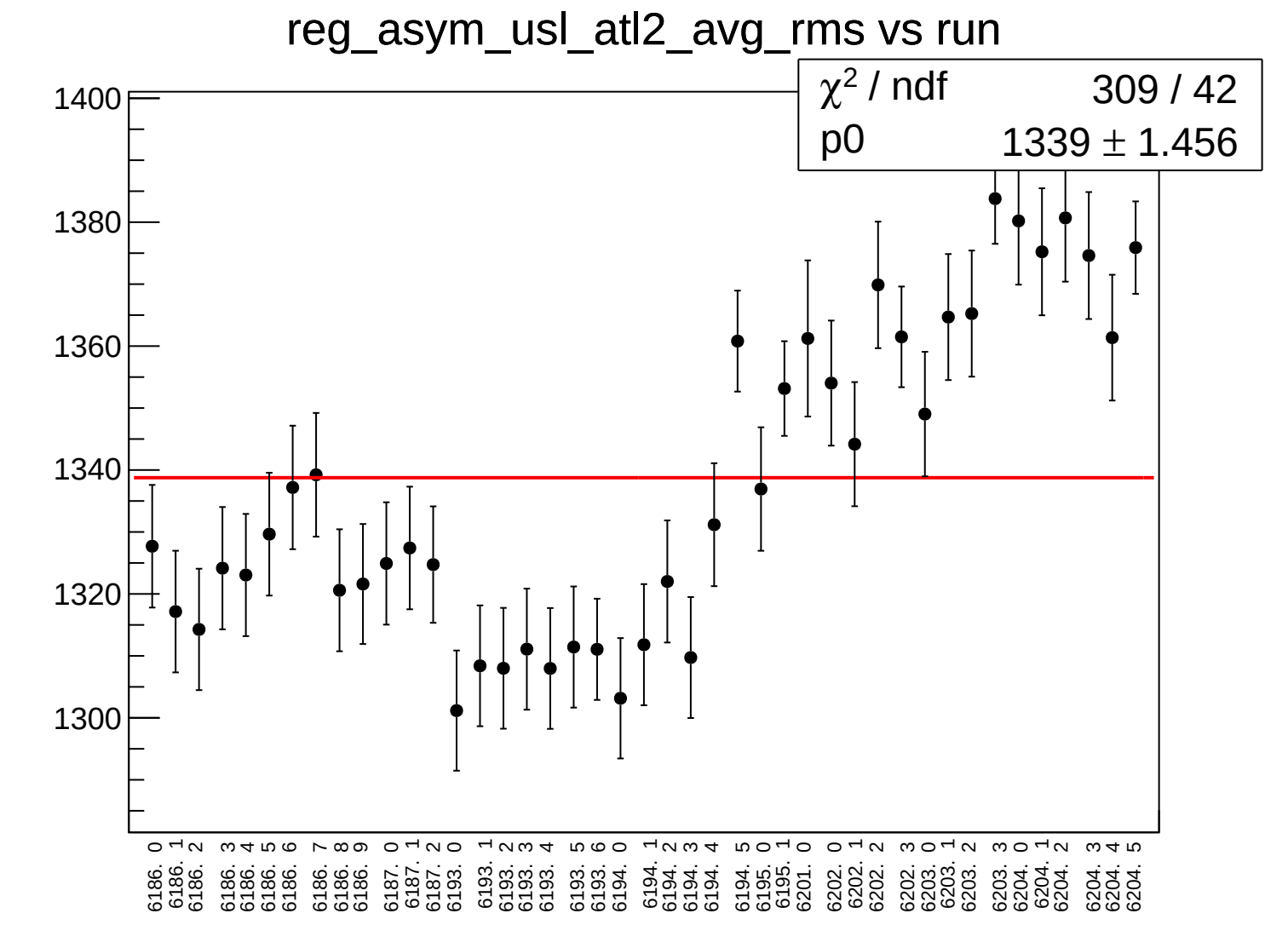

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.236e+05 / 42
p0 28.06 ± 0.03303
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

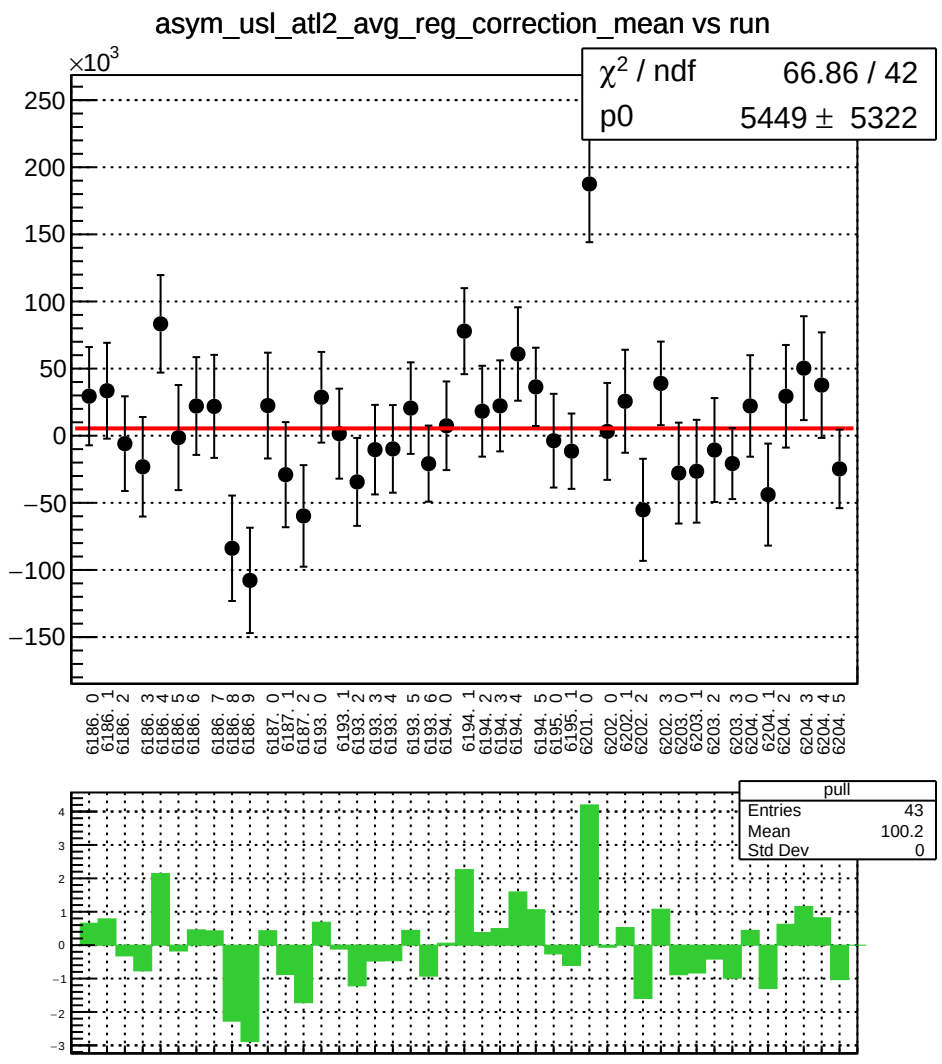

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.2 / 42
p0 −3.553e−14 ± 3.252e−14
3
2
1
0
−1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 9.555
Std Dev 16.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.09299
Std Dev 1.01
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

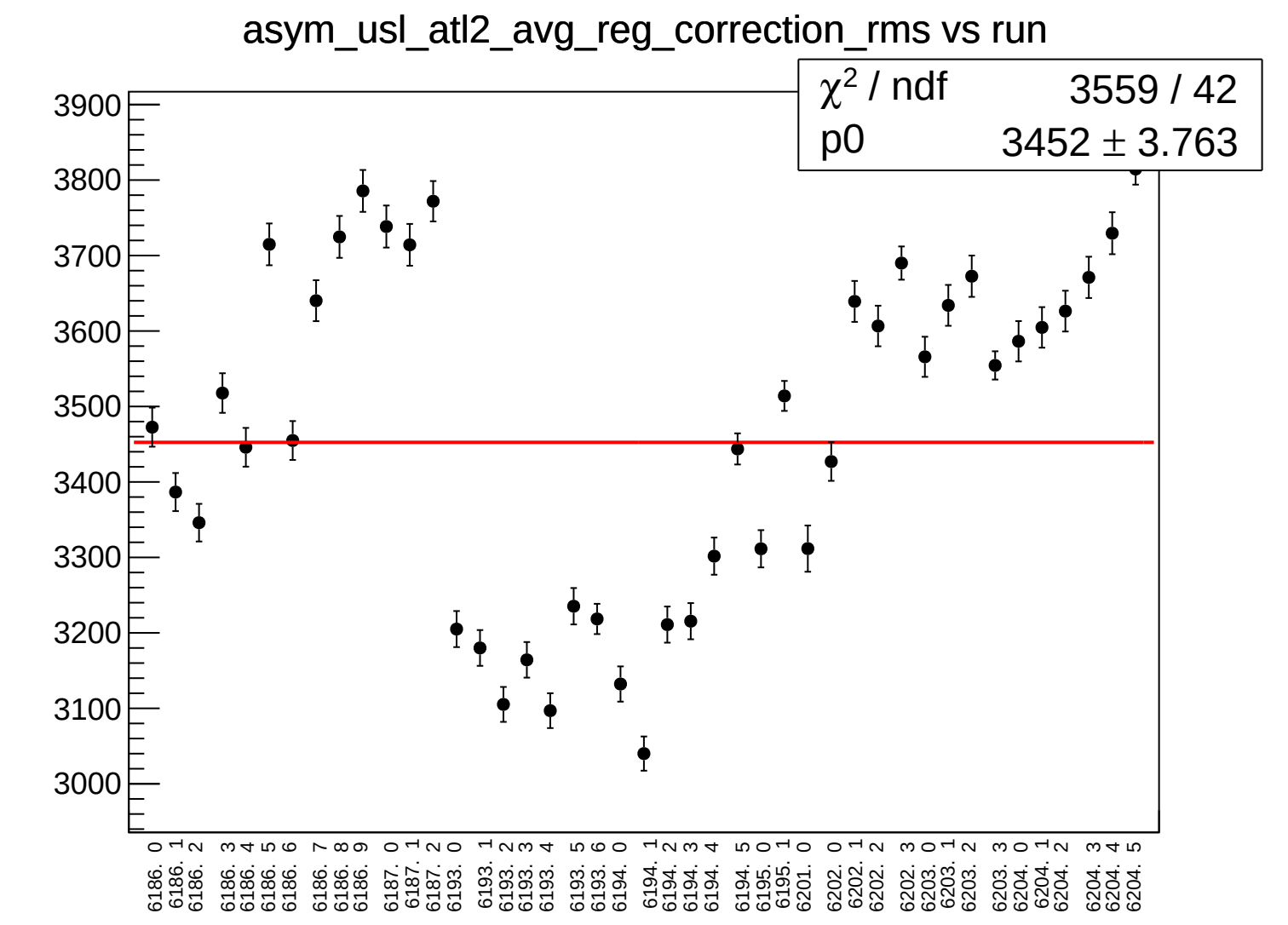

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.747e+05 / 42
p0 1.577e−11 ± 2.3e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

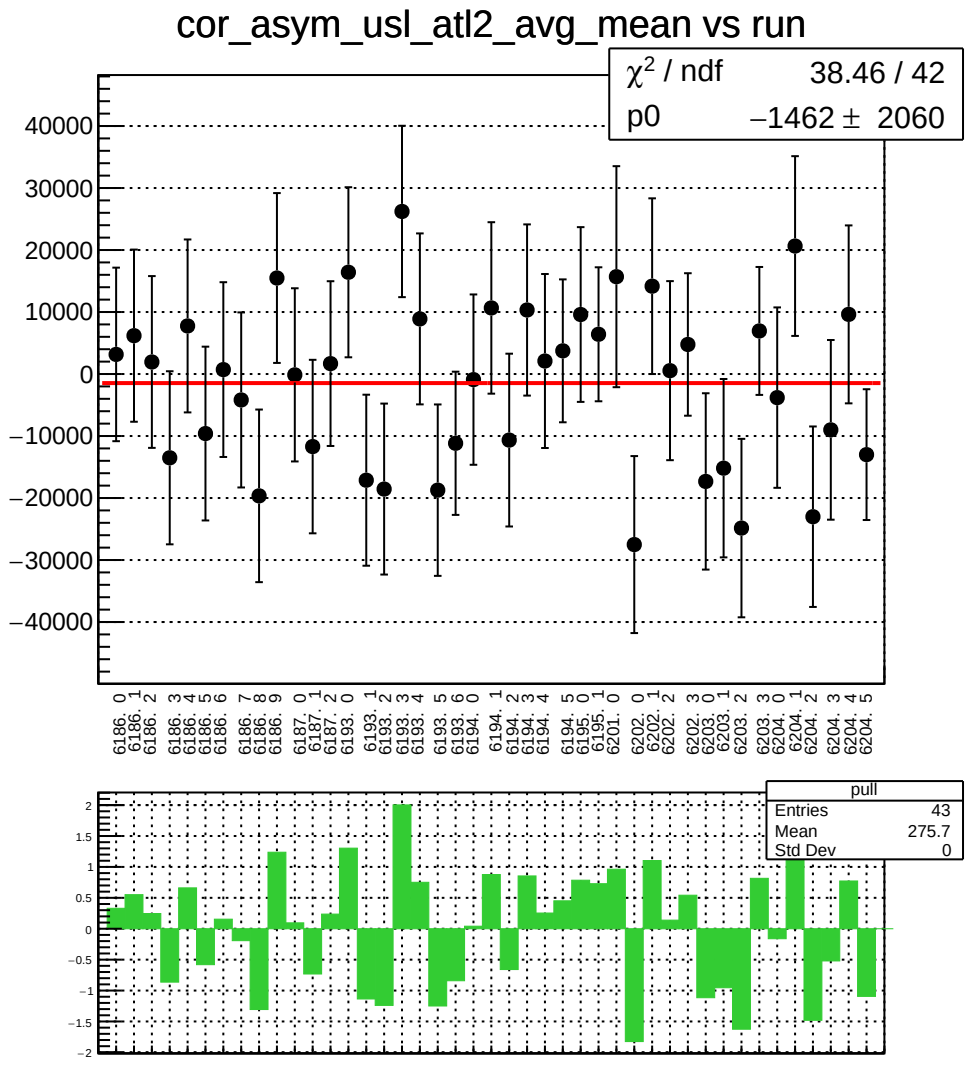

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 38.47 / 42
p0 −1463 ± 2060
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 275.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

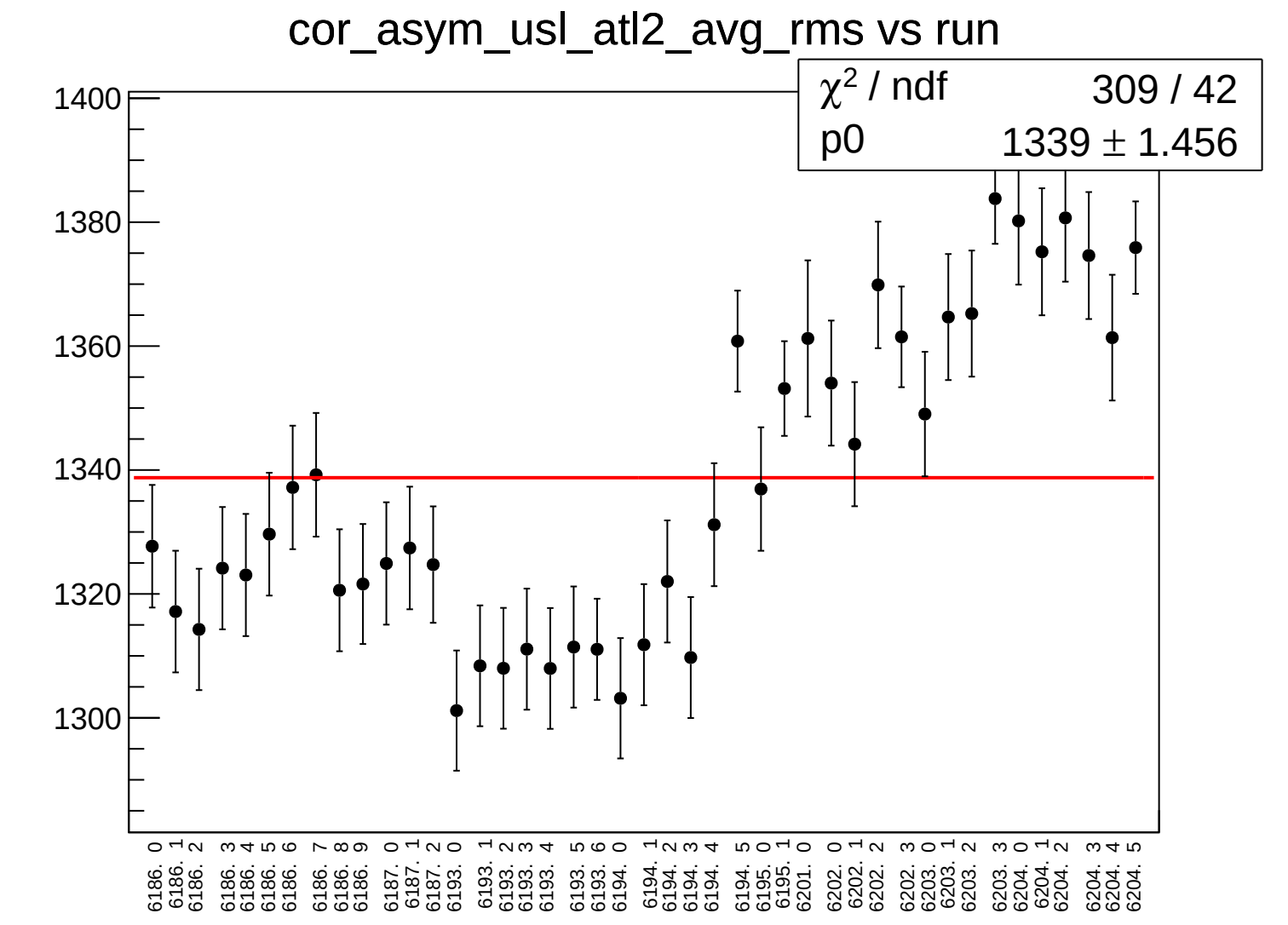

pull1D
Entries 43
Mean −0.003737
Std Dev 0.9458
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

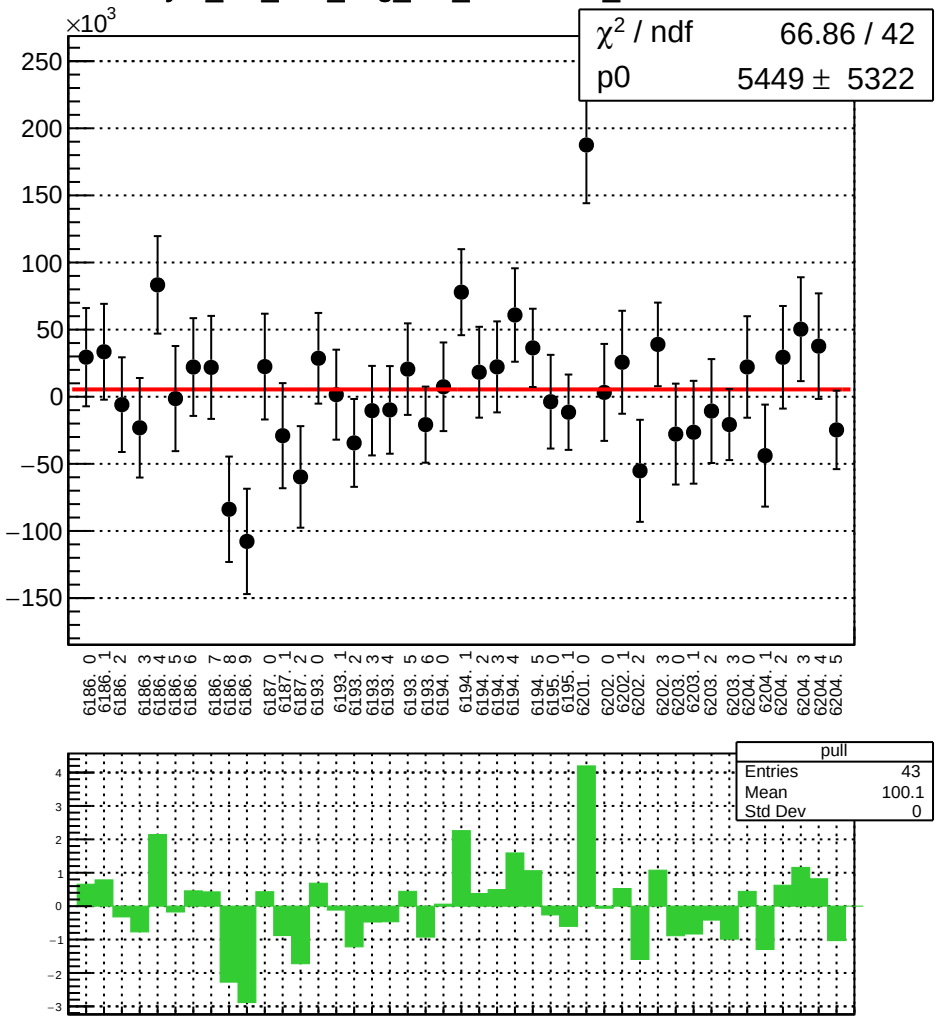

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 309 / 42
p0 1339 ± 1.456
1400
1380
1360
1340
1320
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

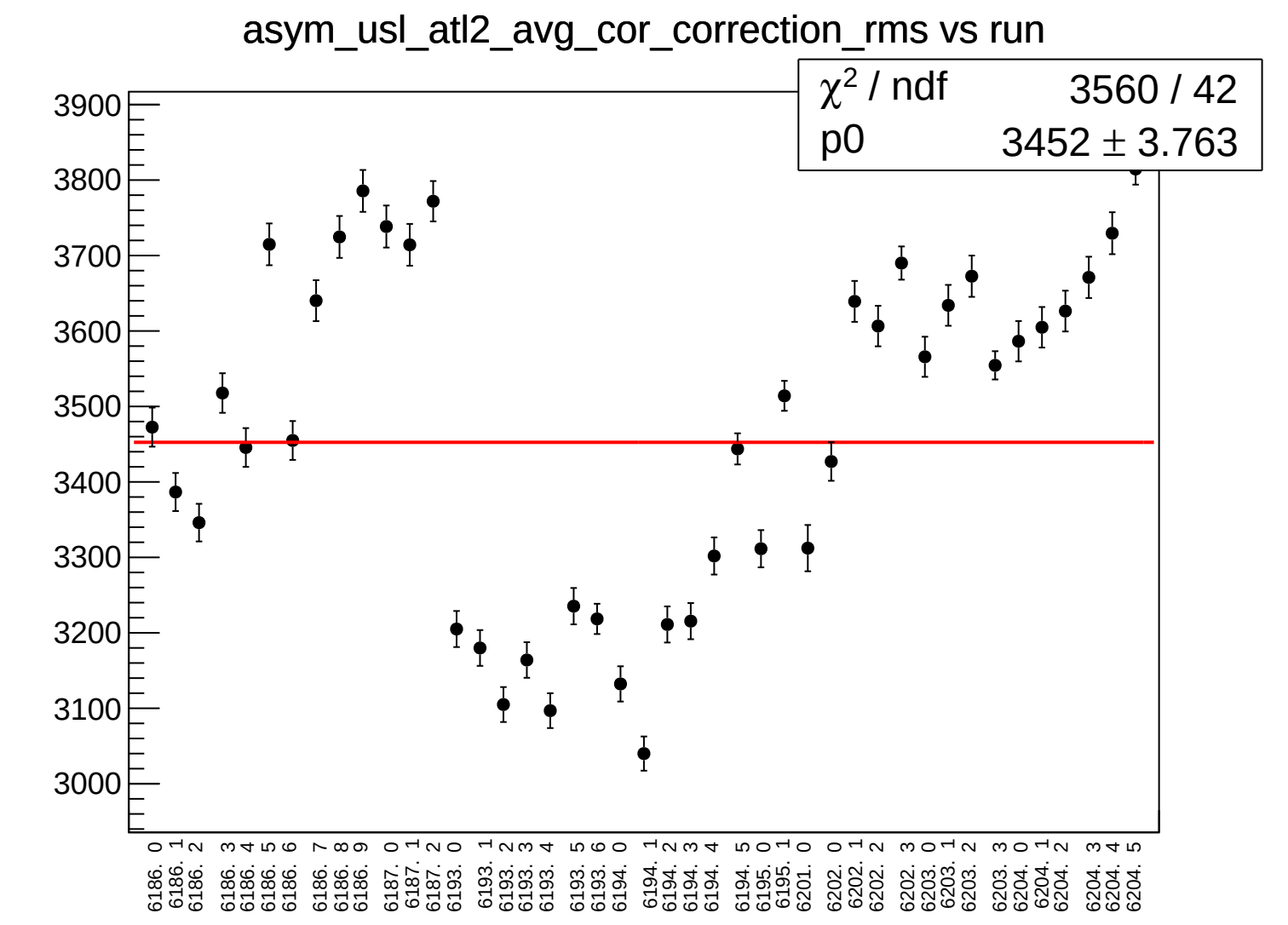

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 66.86 / 42
p0 5449 ± 5322
250
200
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 100.2
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01213
Std Dev 1.247
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

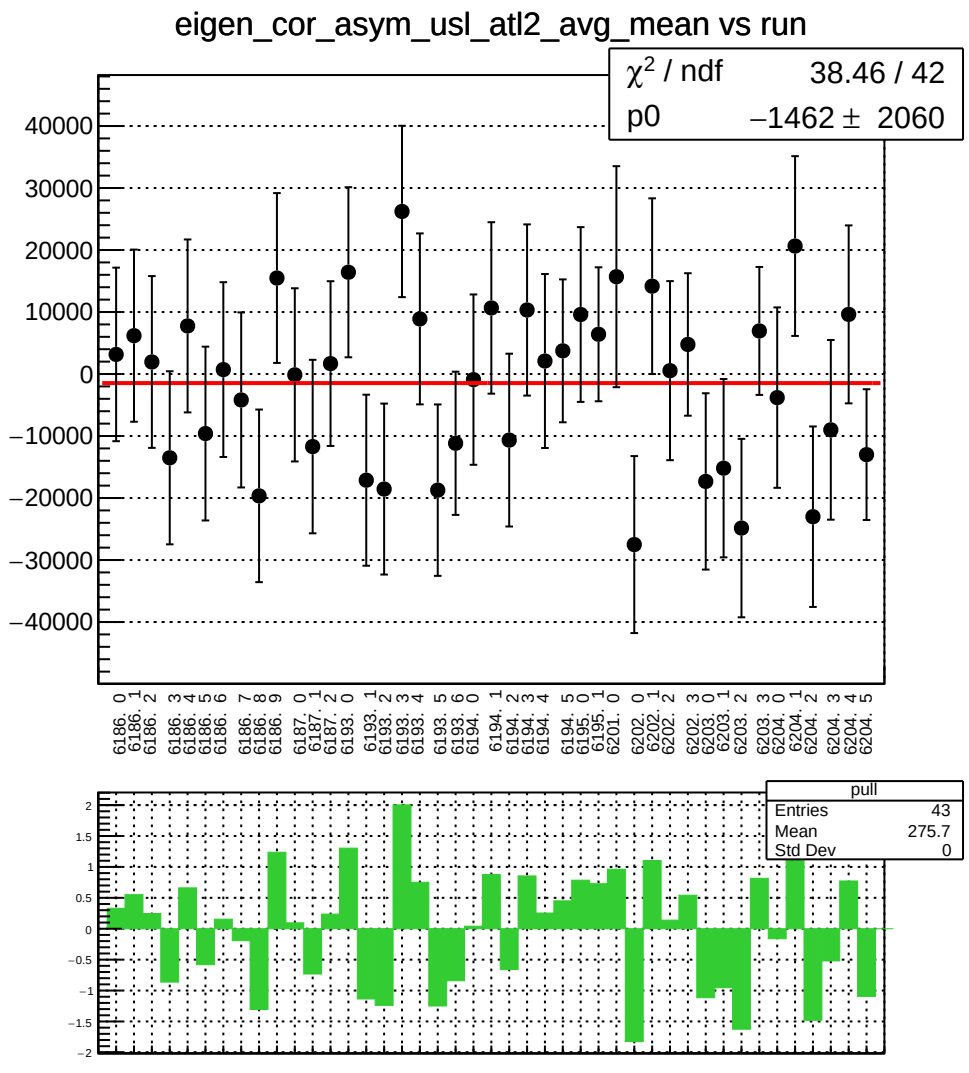

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 3559 / 42
p0 3452 ± 3.763
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

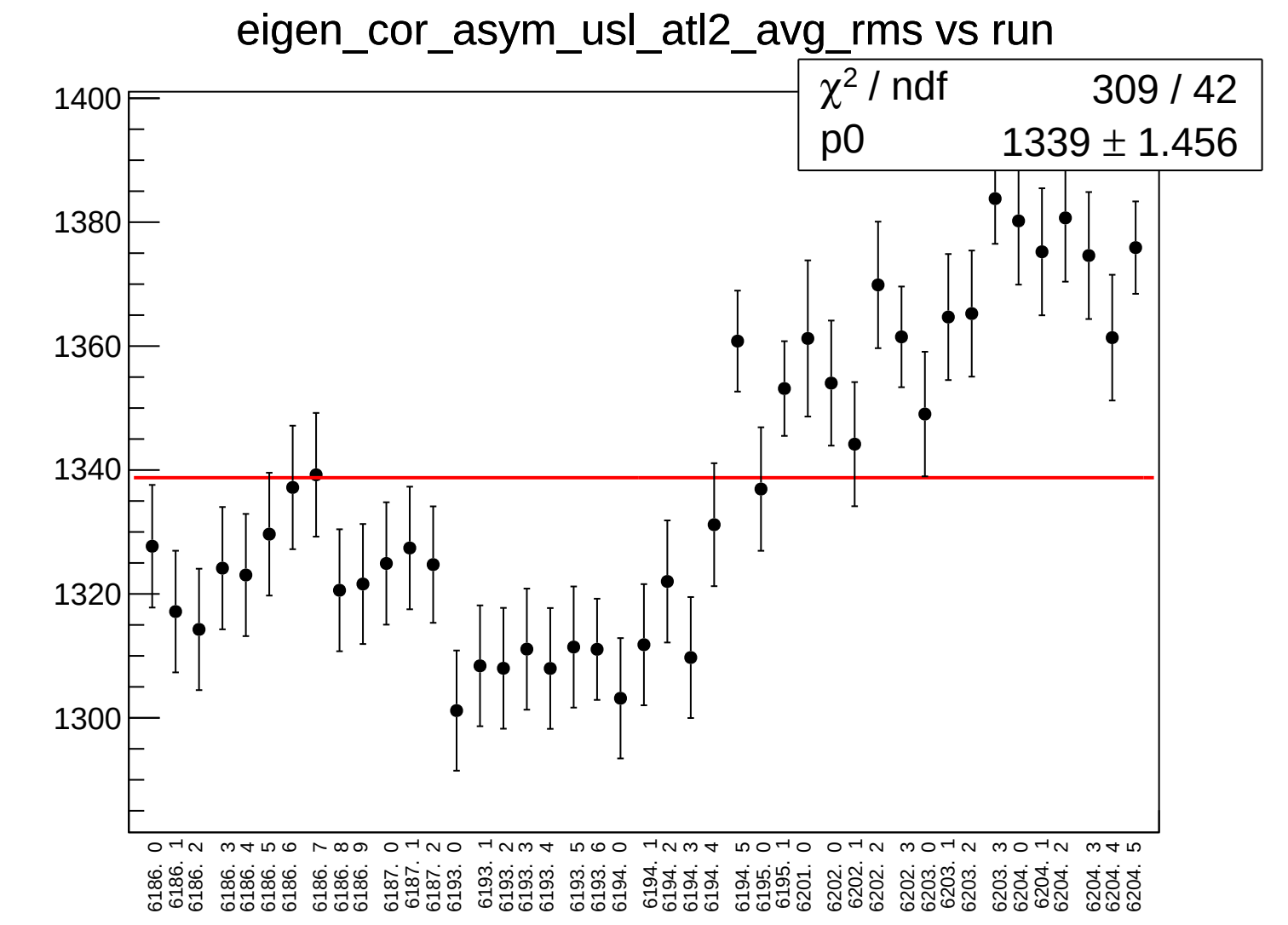

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 38.46 / 42
p0 −1462 ± 2060
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 275.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.003728
Std Dev 0.9458
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

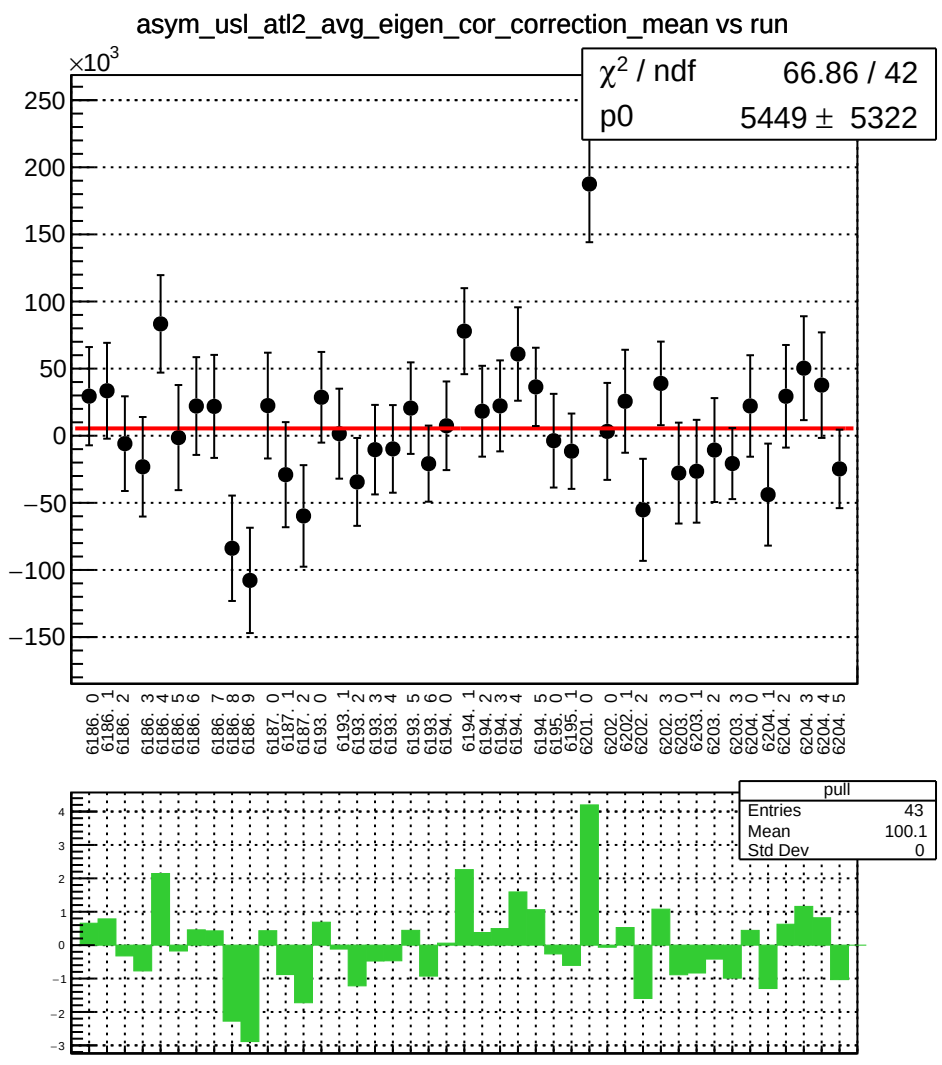

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 309 / 42
p0 1339 ± 1.456
1400
1380
1360
1340
1320
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

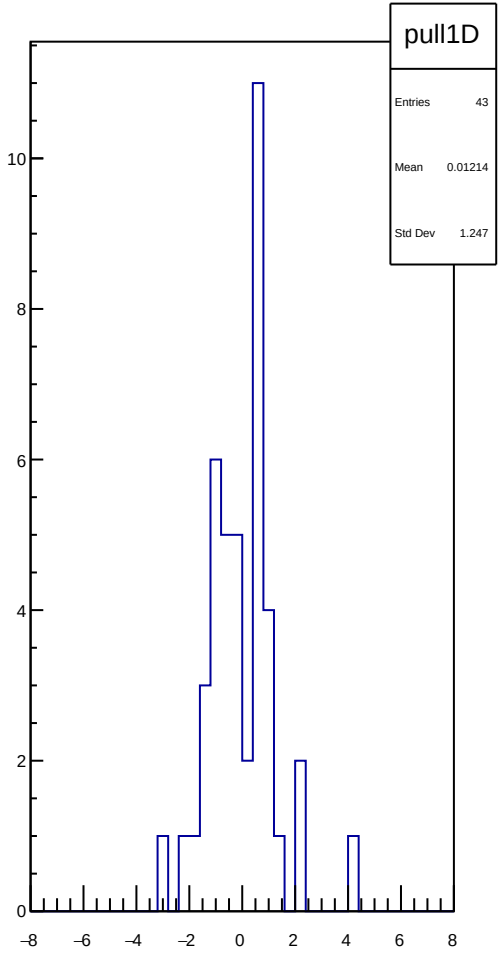

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 66.86 / 42
p0 5449 ± 5322
250
200
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 100.1
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01214
Std Dev 1.247
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

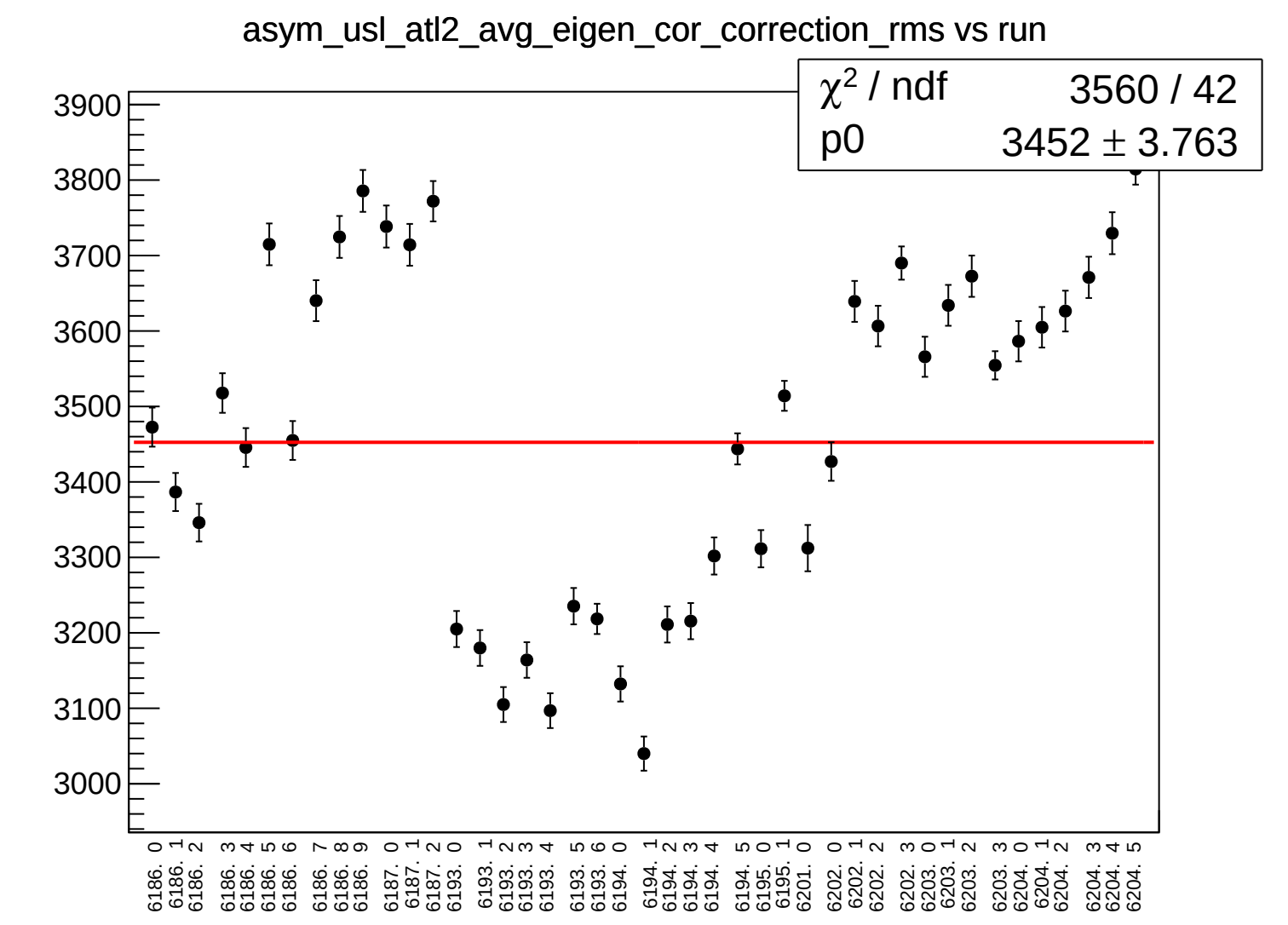

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 3560 / 42
p0 3452 ± 3.763
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

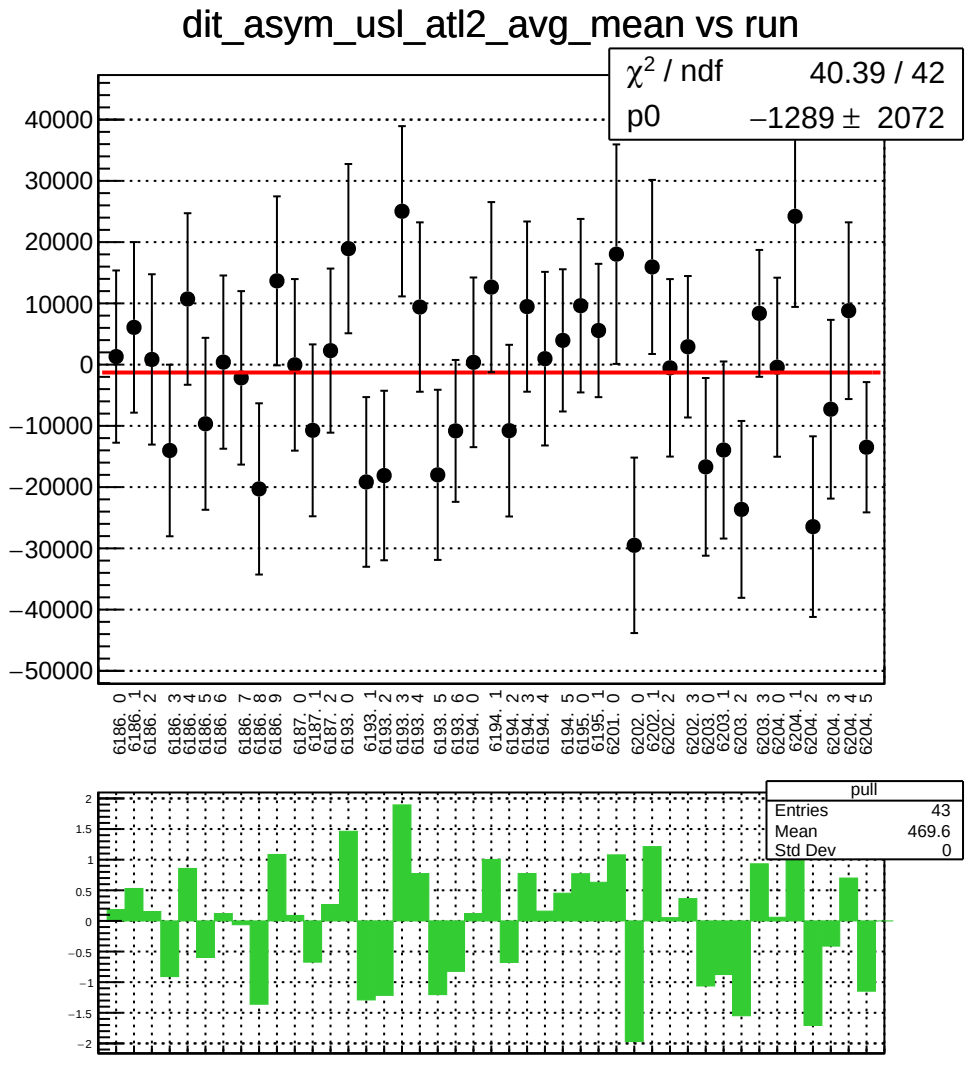

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 38.46 / 42
p0 −1462 ± 2060
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 275.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.003728
Std Dev 0.9458
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

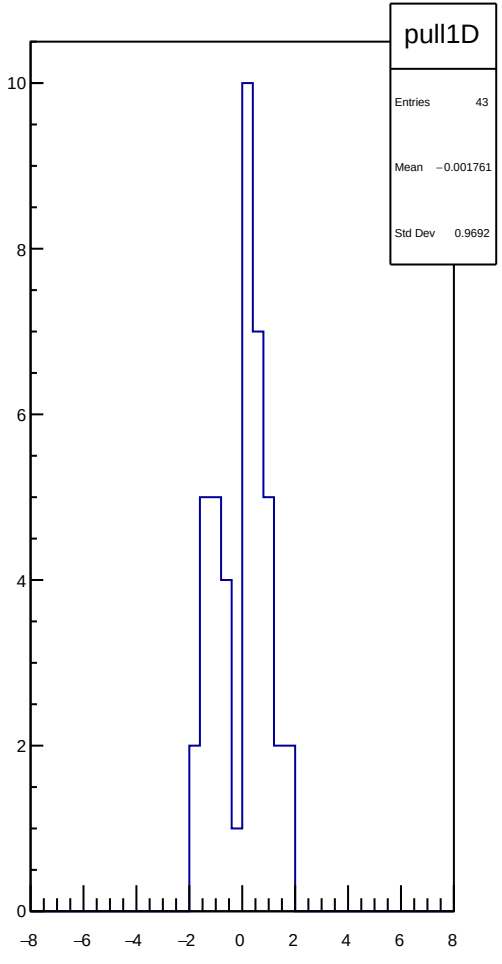

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 309 / 42
p0 1339 ± 1.456
1400
1380
1360
1340
1320
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

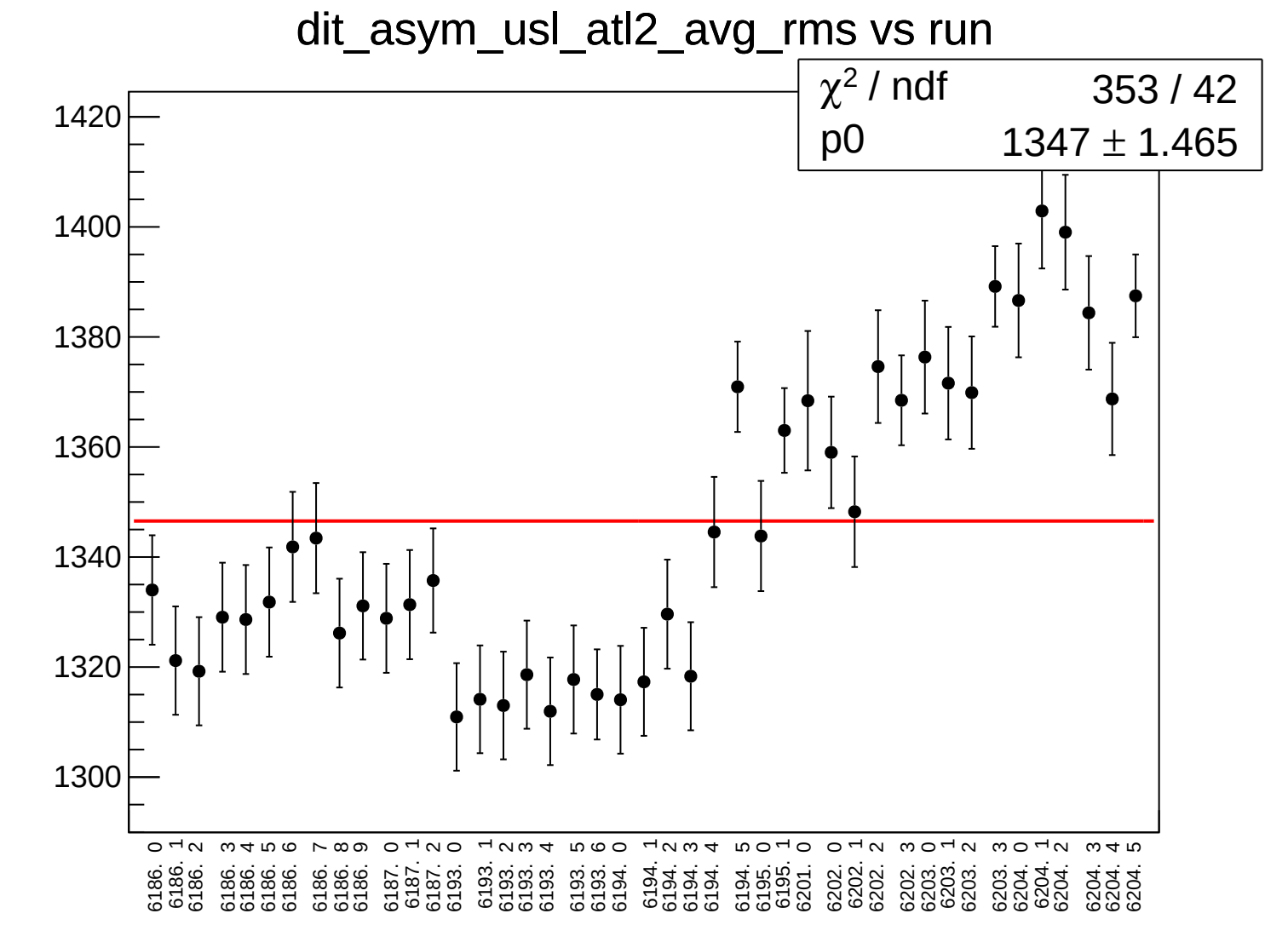

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 66.86 / 42
p0 5449 ± 5322
250
200
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 100.1
Std Dev 0
4
3
2
1
0
−1
−2
−3

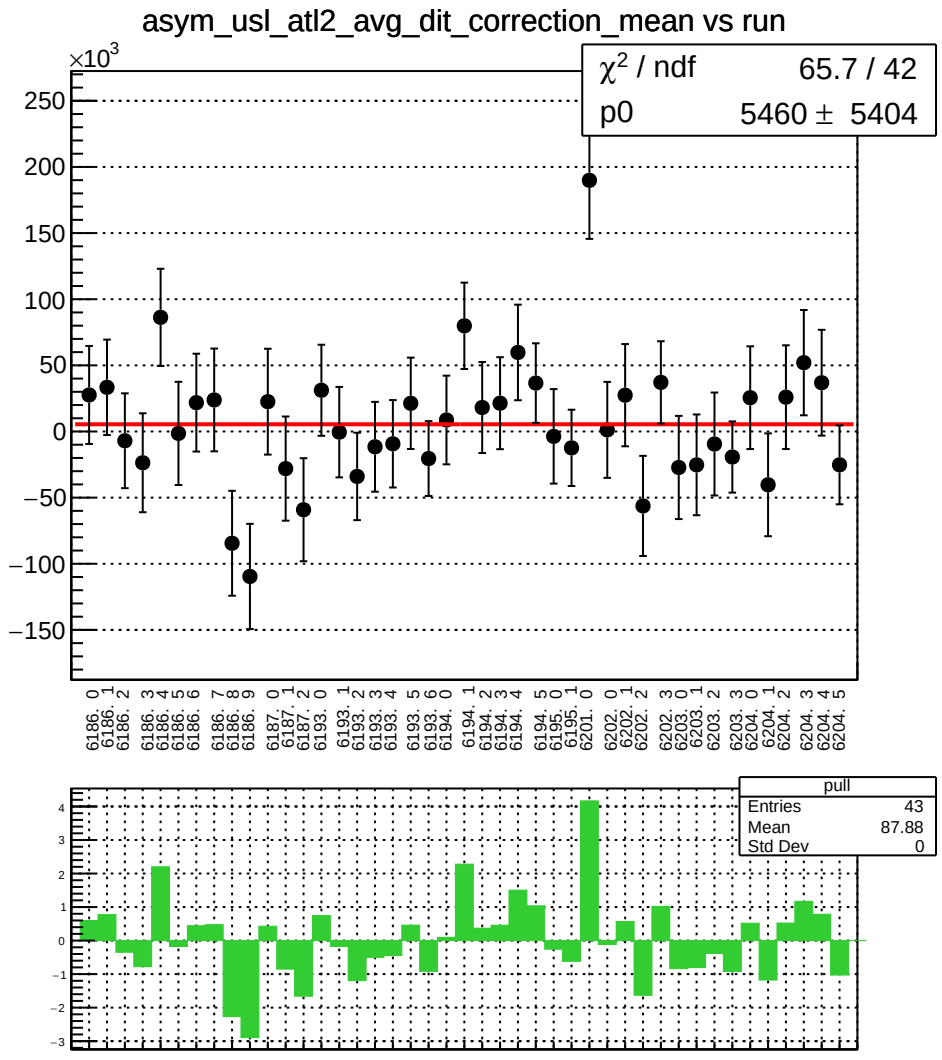

pull1D
Entries 43
Mean 0.01214
Std Dev 1.247
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

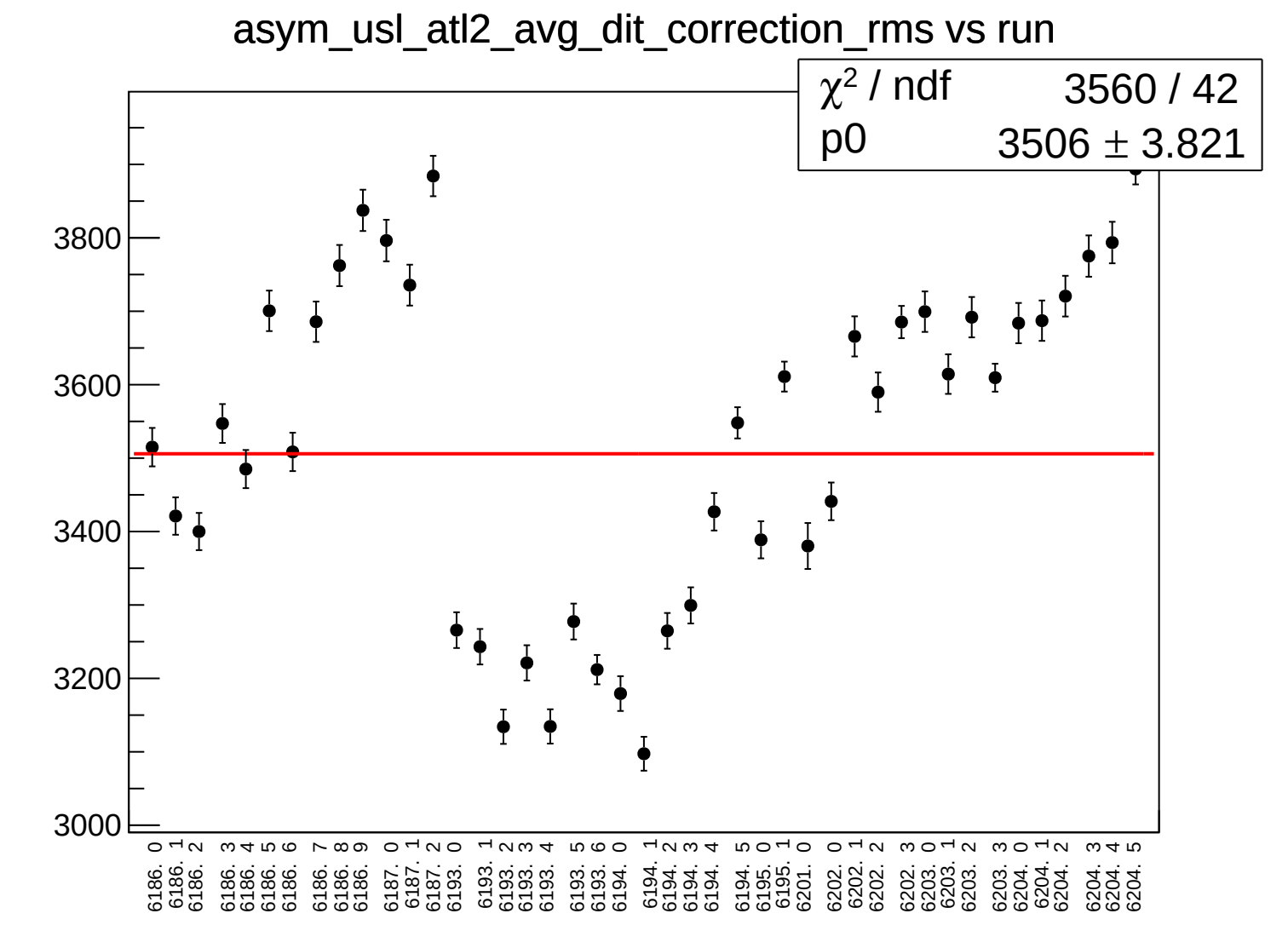

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3560 / 42
p0 3452 ± 3.763
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

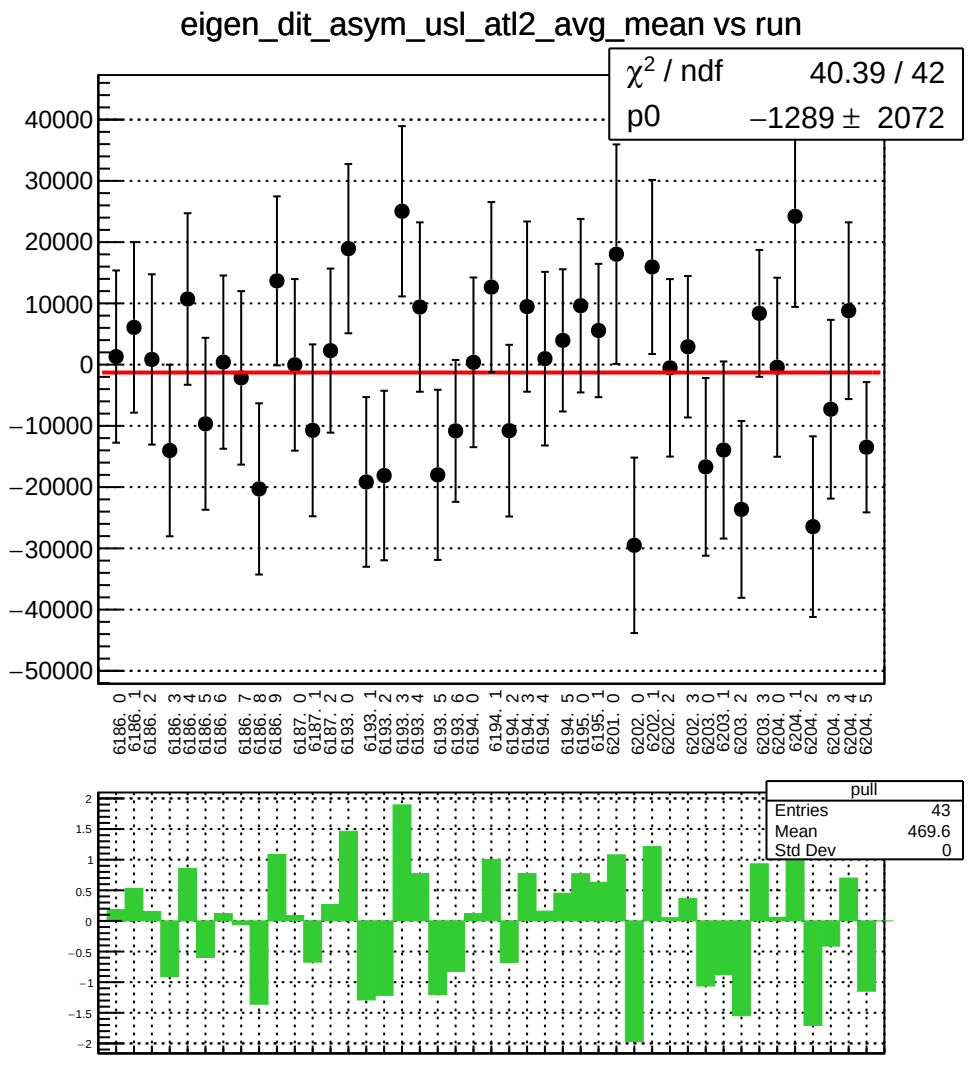

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 40.39 / 42
p0 −1289 ± 2072
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 469.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

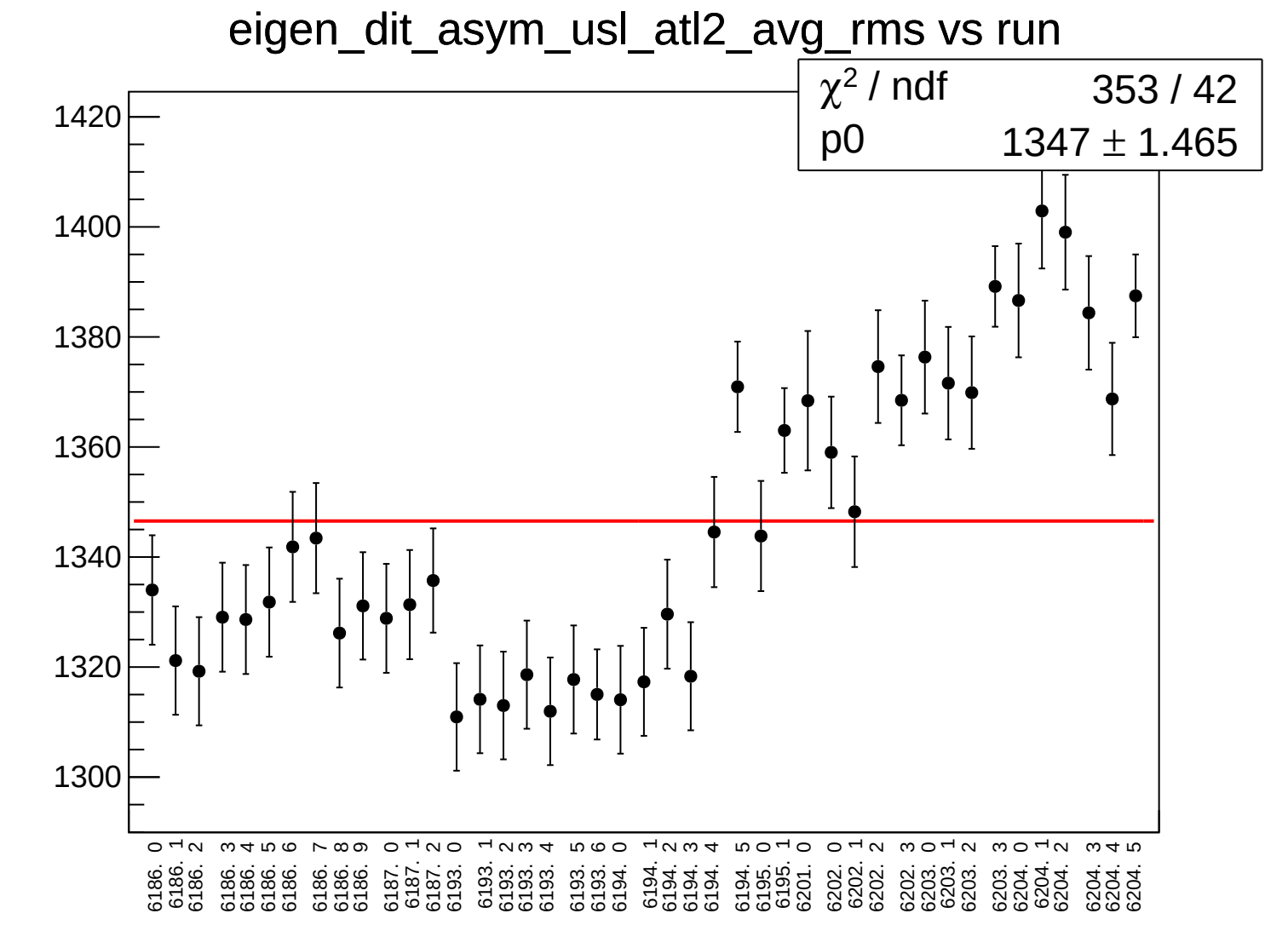

pull1D
Entries 43
Mean −0.001761
Std Dev 0.9692
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

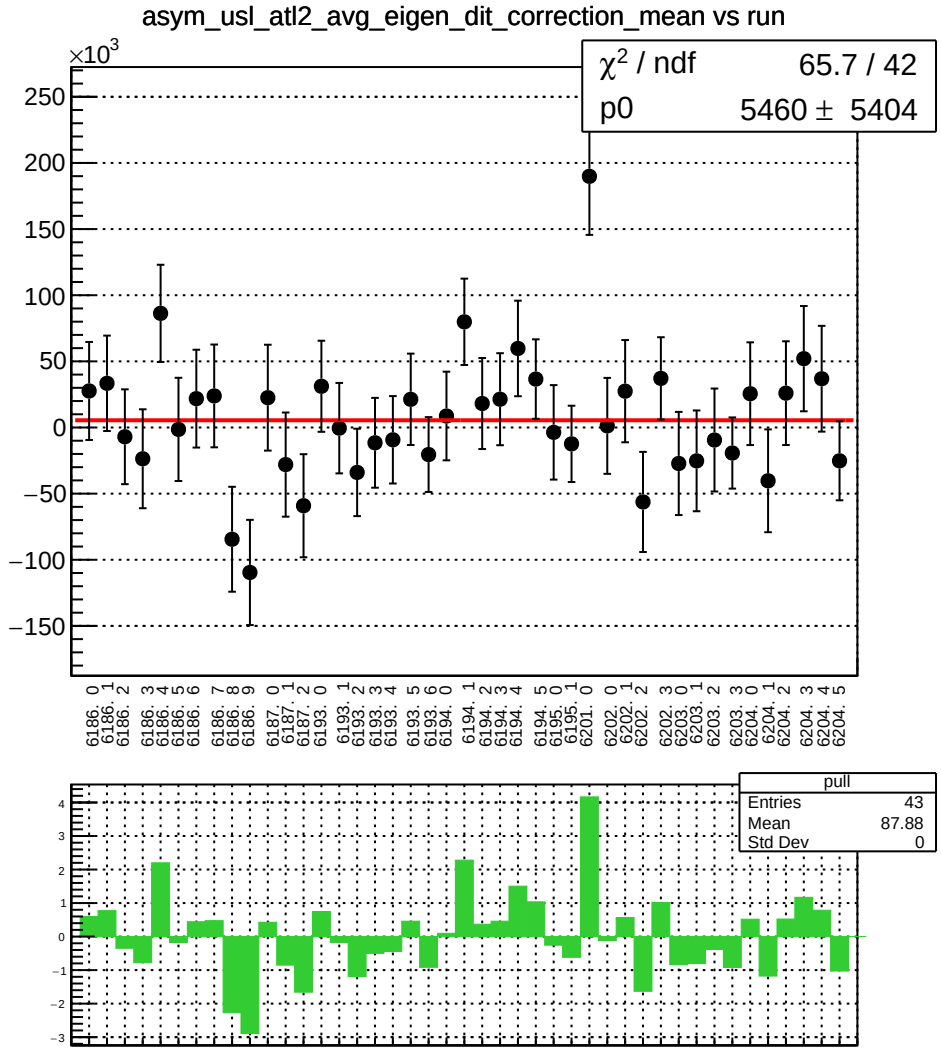

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 353 / 42
p0 1347 ± 1.465
1420
1400
1380
1360
1340
1320
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

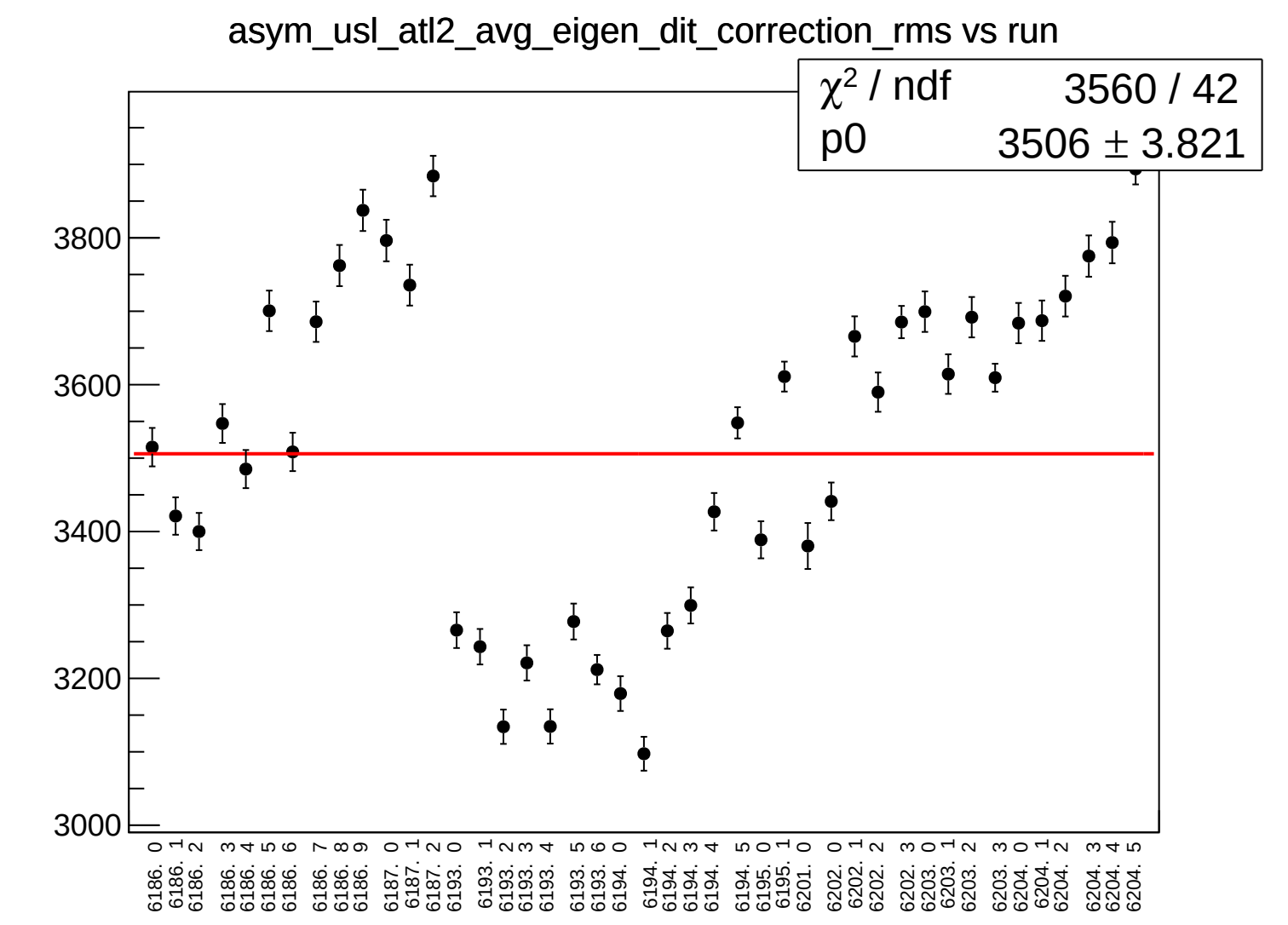

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 65.7 / 42
p0 5460 ± 5404
250
200
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 87.88
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01481
Std Dev 1.236
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

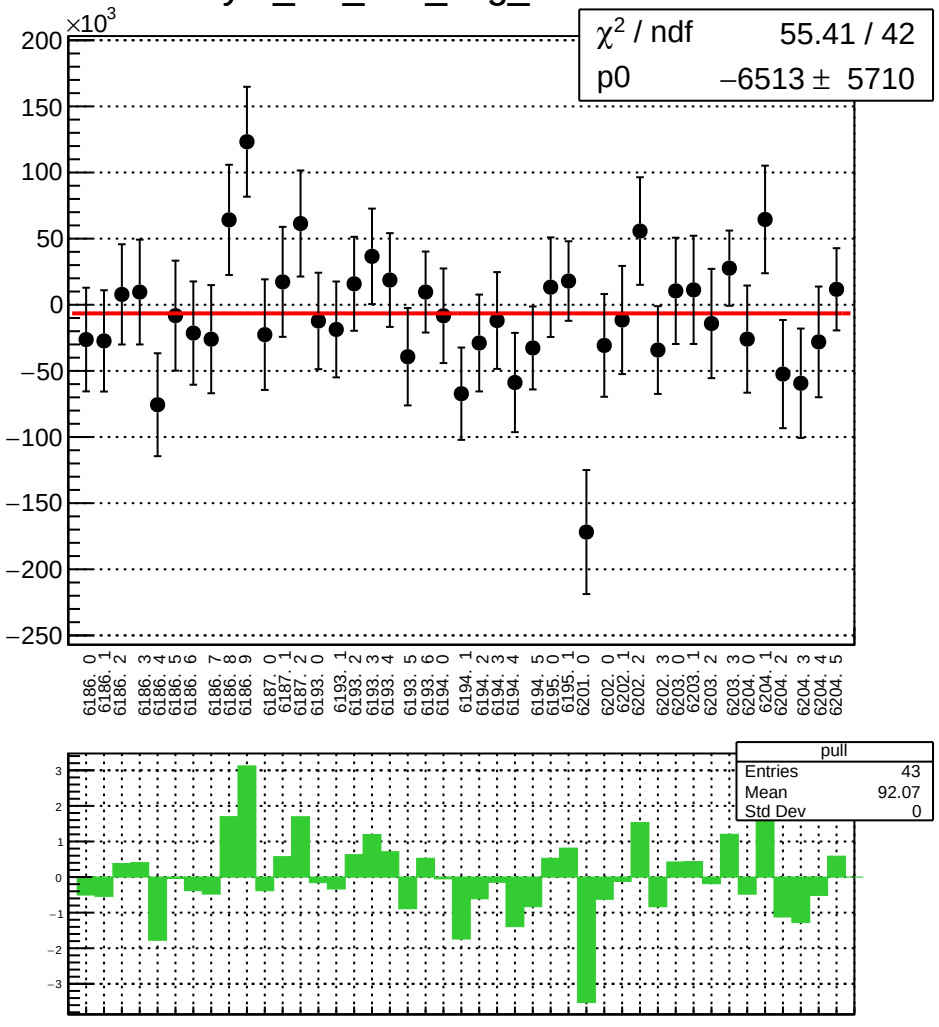

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 3560 / 42
p0 3506 ± 3.821
3800
3600
3400
3200
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

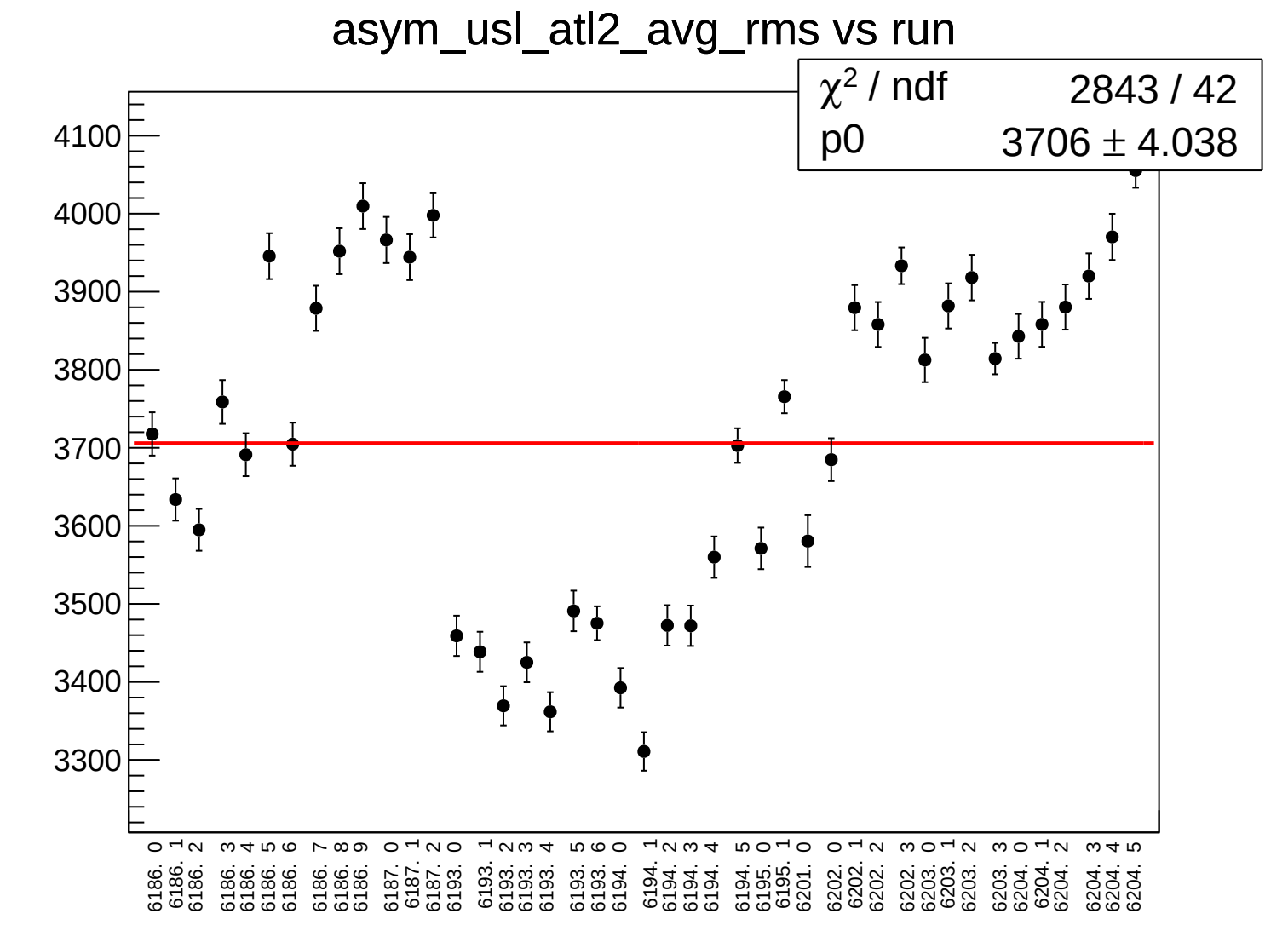

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 40.39 / 42
p0 −1289 ± 2072
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 469.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.001761
Std Dev 0.9692
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

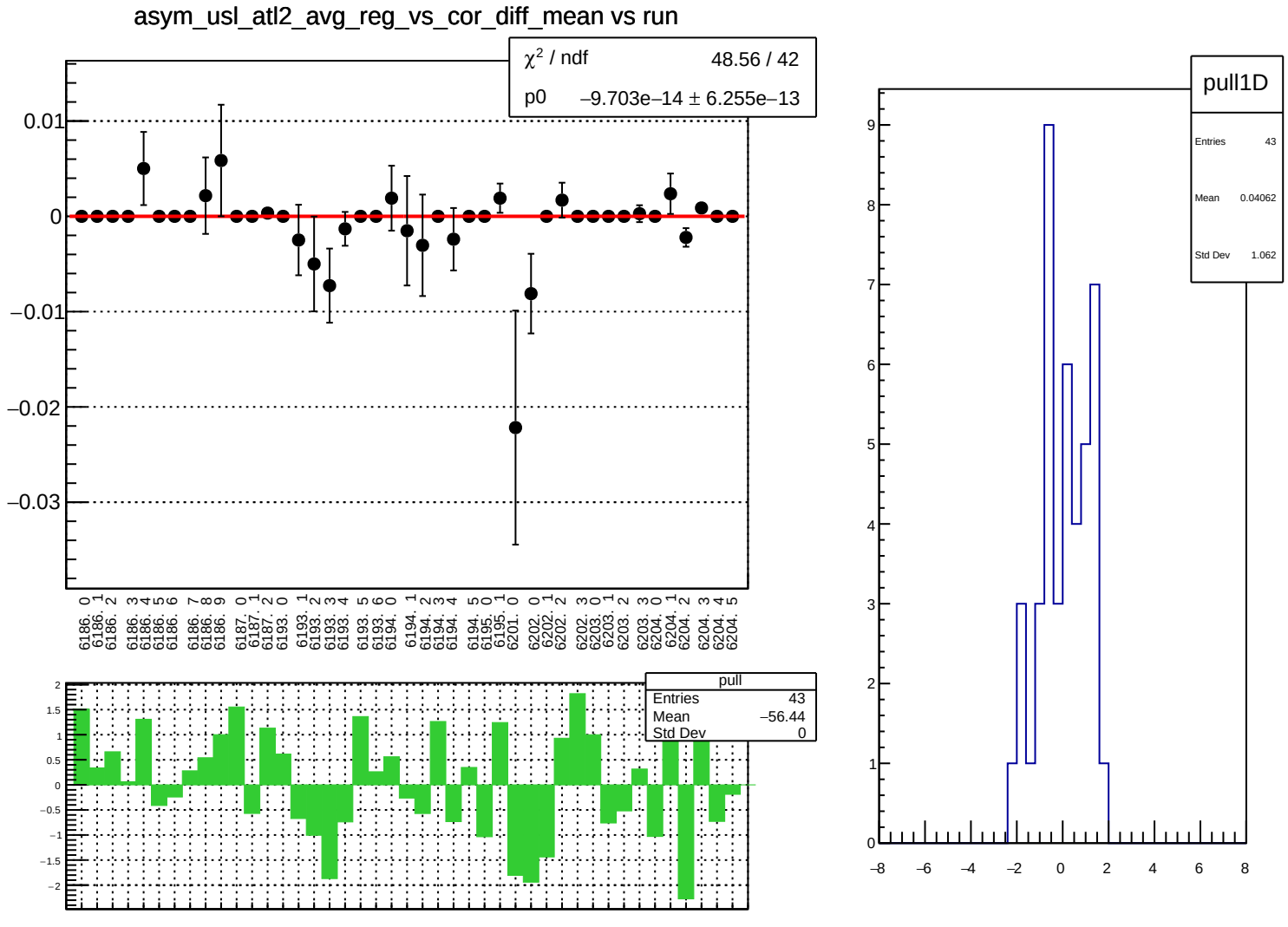

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 353 / 42
p0 1347 ± 1.465
1420
1400
1380
1360
1340
1320
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

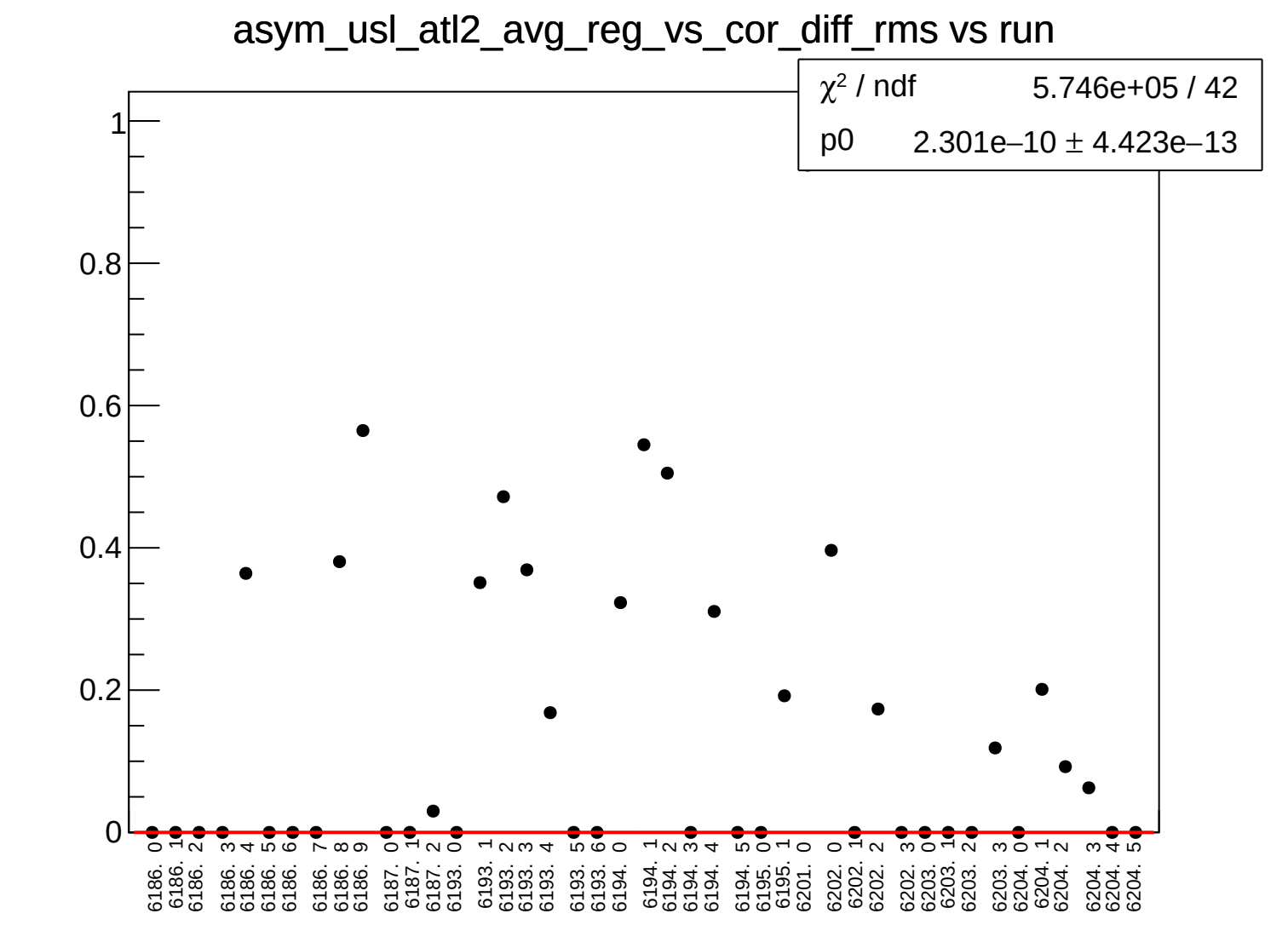

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 65.7 / 42
p0 5460 ± 5404
250
200
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 87.88
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01481
Std Dev 1.236
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

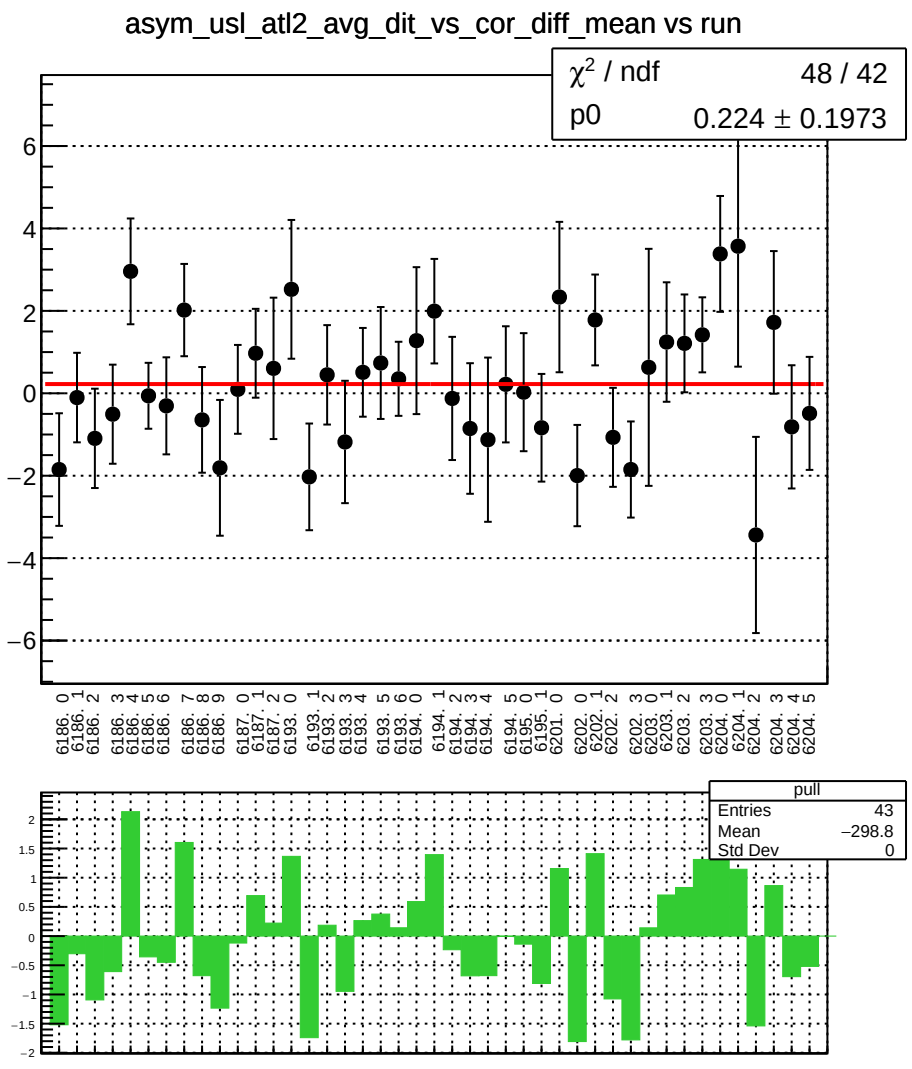

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3560 / 42
p0 3506 ± 3.821
3800
3600
3400
3200
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

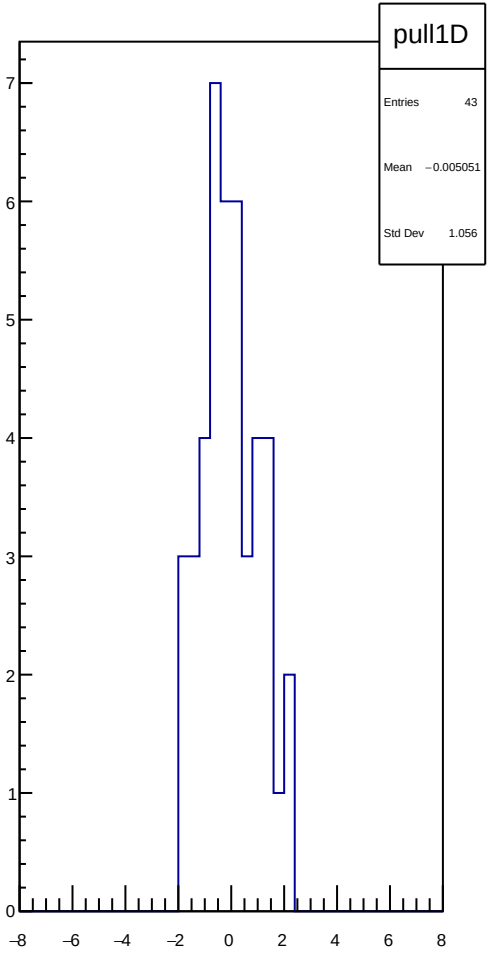

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 55.41 / 42
p0 −6513 ± 5710
200
150
100
50
0
−50
−100
−150
−200
−250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 92.07
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01756
Std Dev 1.135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

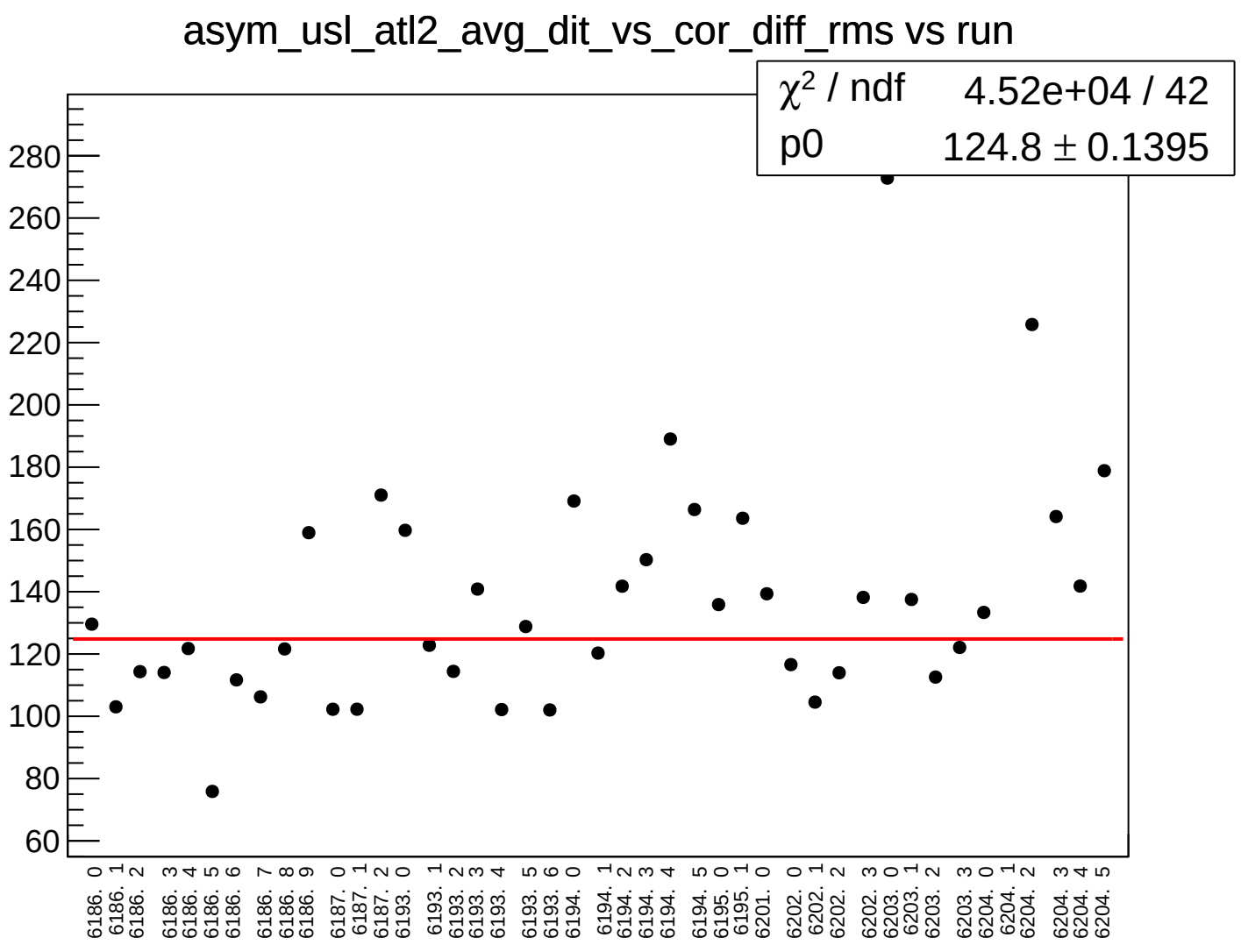

asym_usl_atl2_avg_rms vs run
χ² / ndf 2843 / 42
p0 3706 ± 4.038
4100
4000
3900
3800
3700
3600
3500
3400
3300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

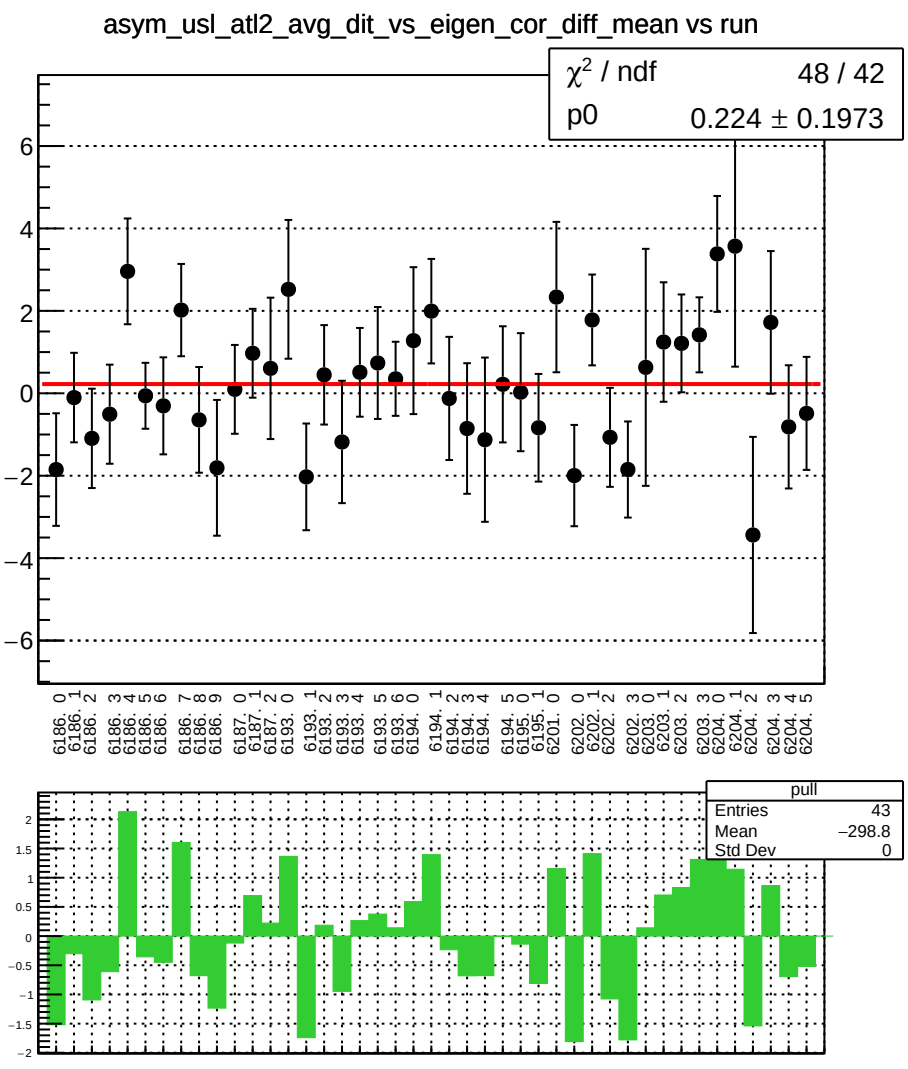

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 48.56 / 42
p0 −9.703e−14 ± 6.255e−13
0.01
0
−0.01
−0.02
−0.03
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −56.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.04062
Std Dev 1.062
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

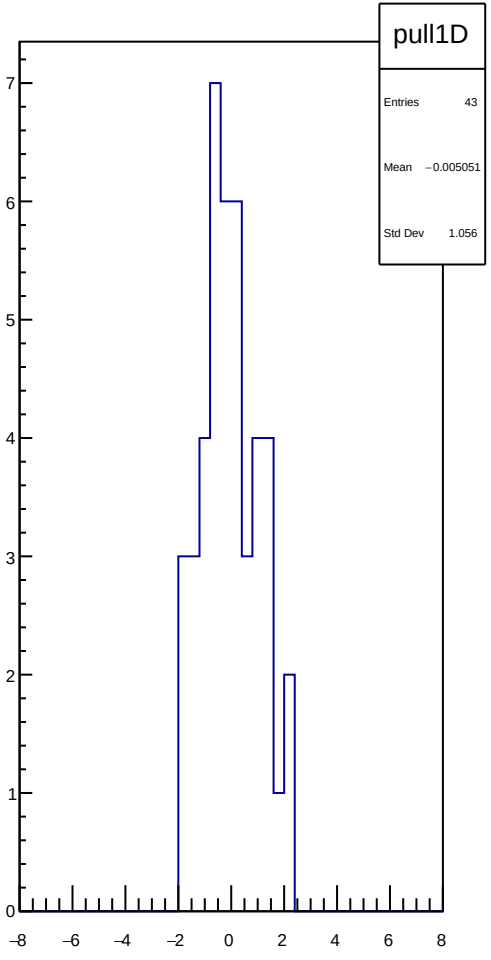

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.746e+05 / 42
p0 2.301e−10 ± 4.423e−13
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

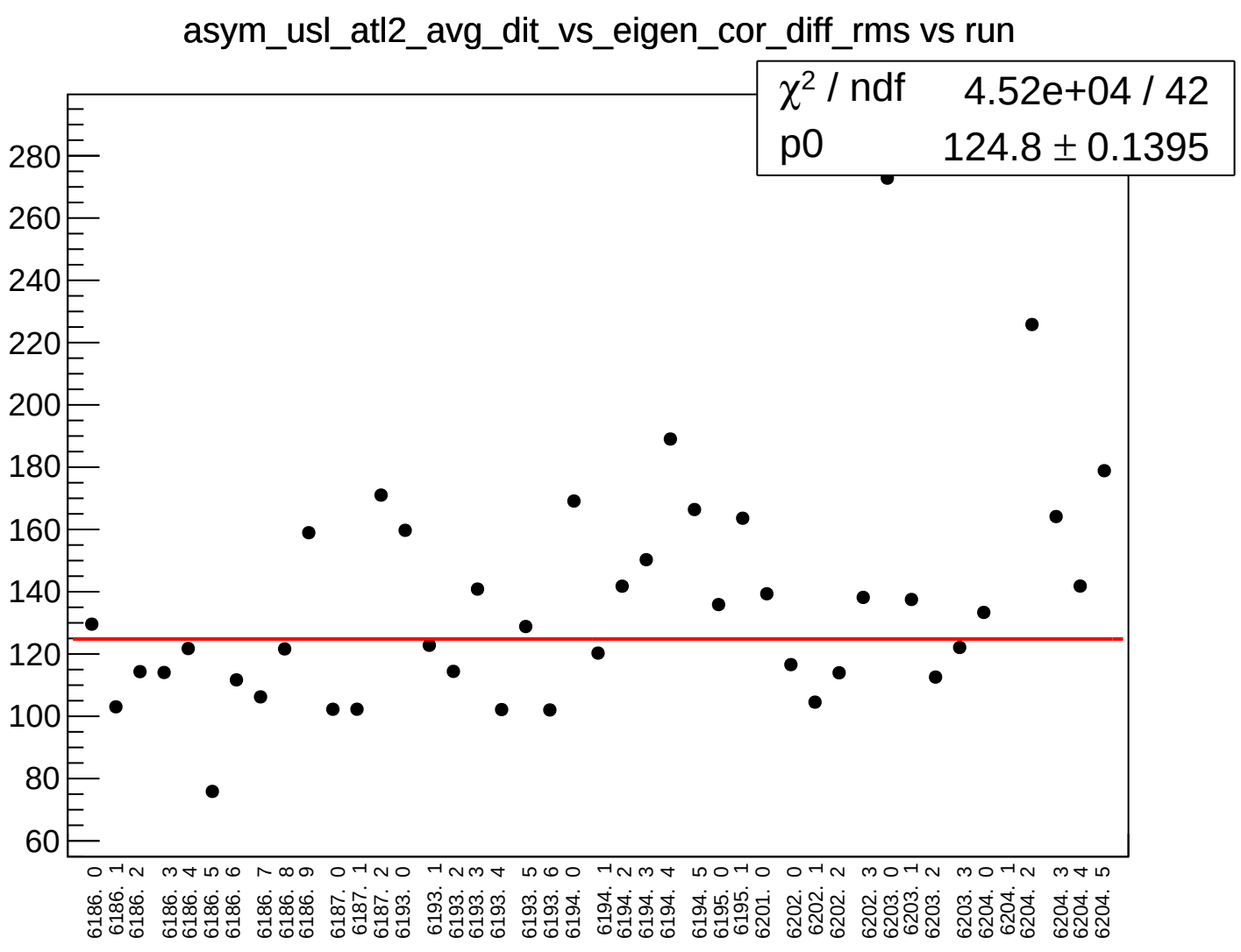

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 48 / 42
p0 0.224 ± 0.1973
pull
Entries 43
Mean −298.8
Std Dev 0

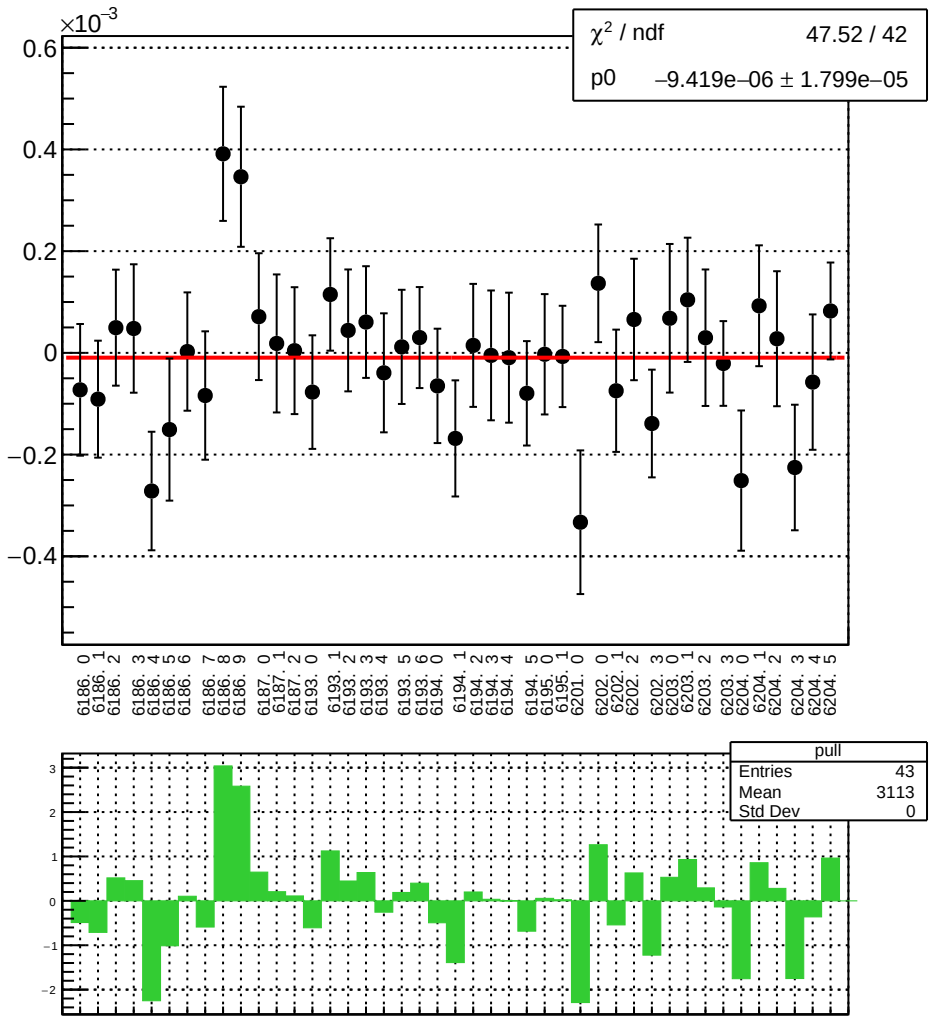

pull1D
Entries 43
Mean −0.005051
Std Dev 1.056

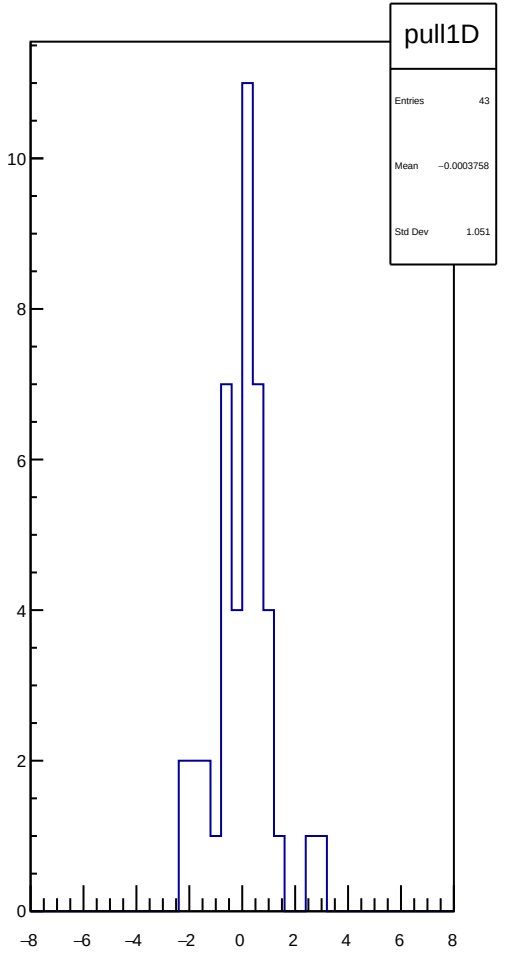

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.52e+04 / 42
p0 124.8 ± 0.1395
280
260
240
220
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

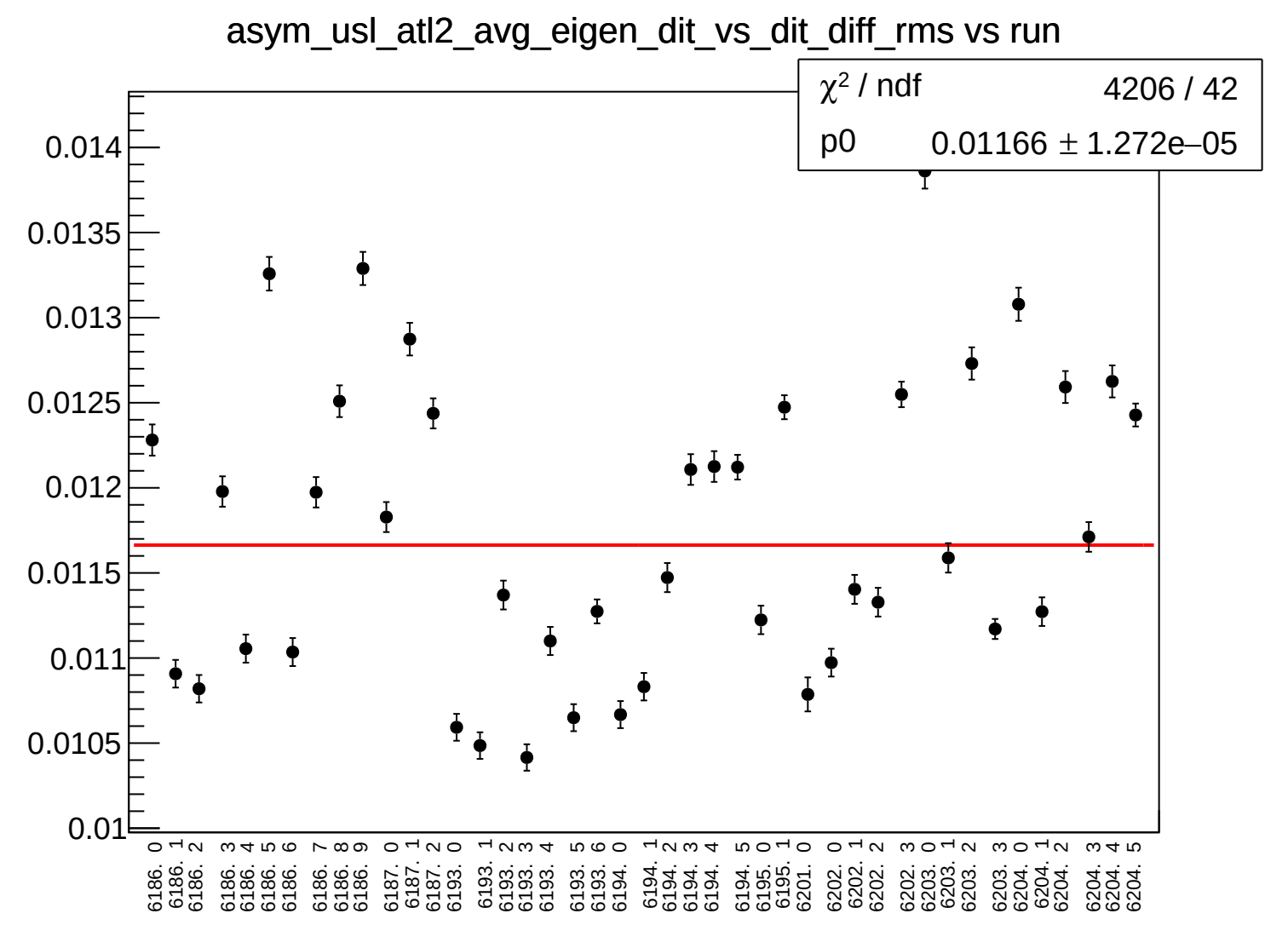

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48 / 42
p0 0.224 ± 0.1973
pull
Entries 43
Mean −298.8
Std Dev 0

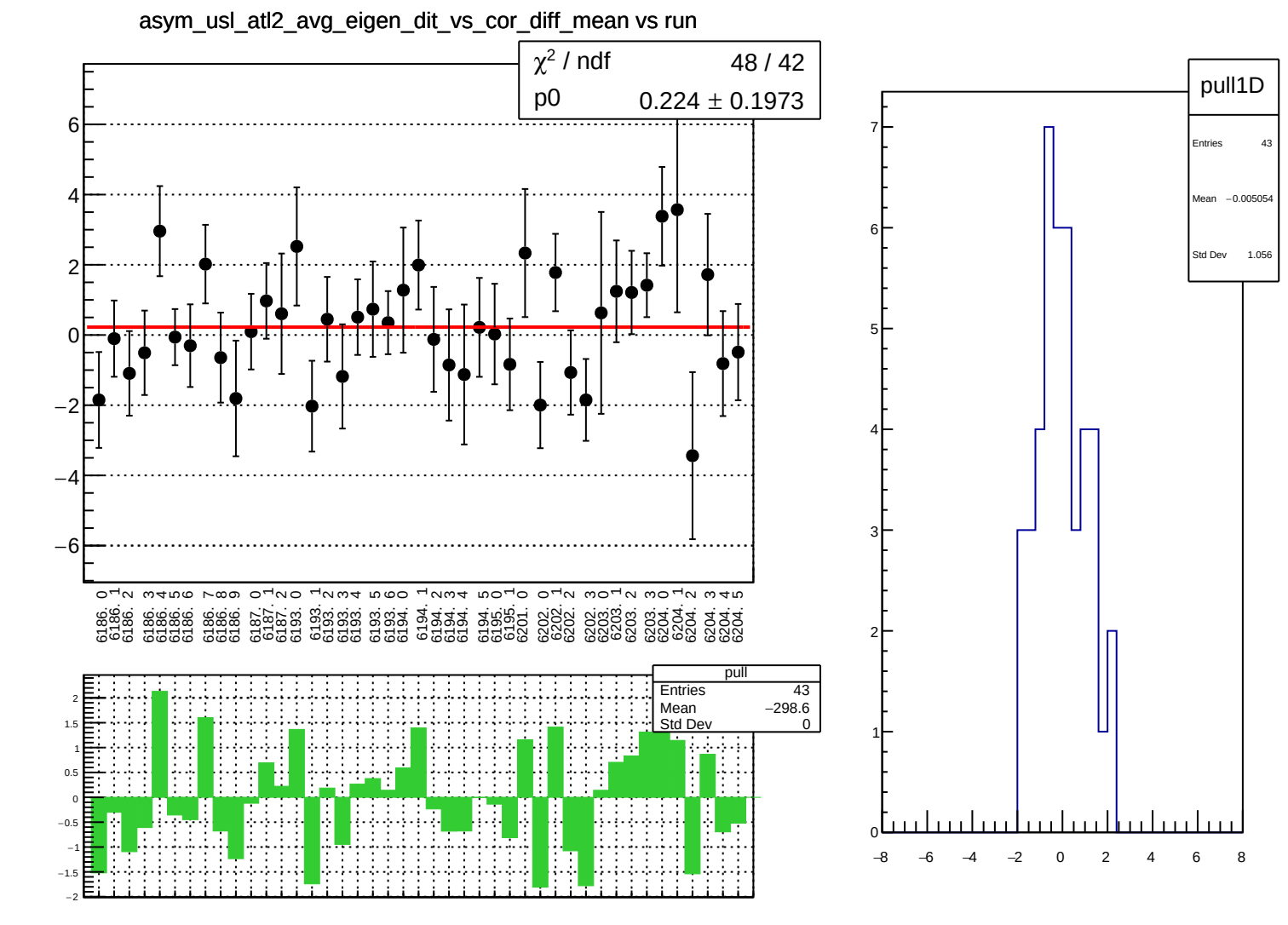

pull1D
Entries 43
Mean −0.005051
Std Dev 1.056

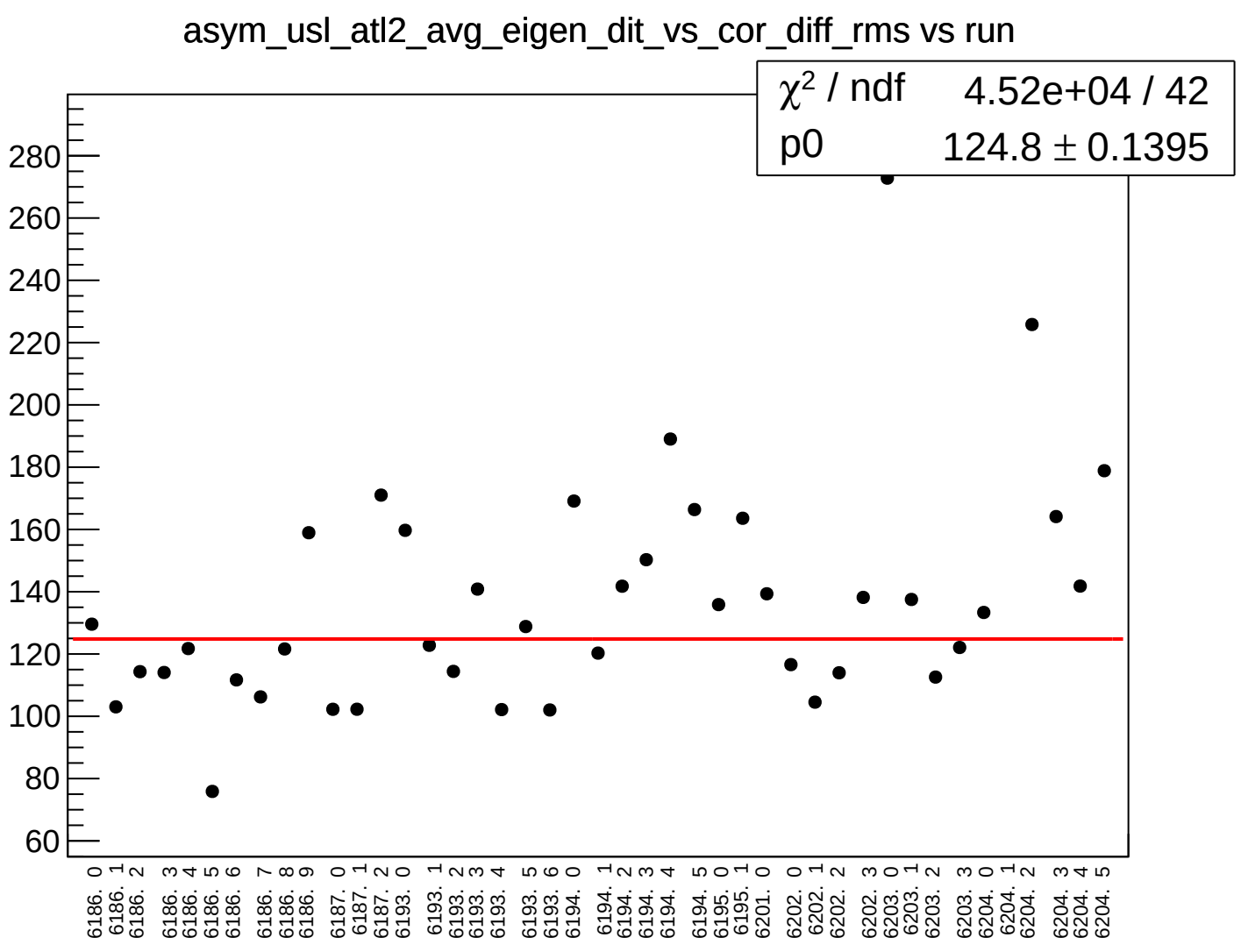

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.52e+04 / 42
p0 124.8 ± 0.1395
280
260
240
220
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

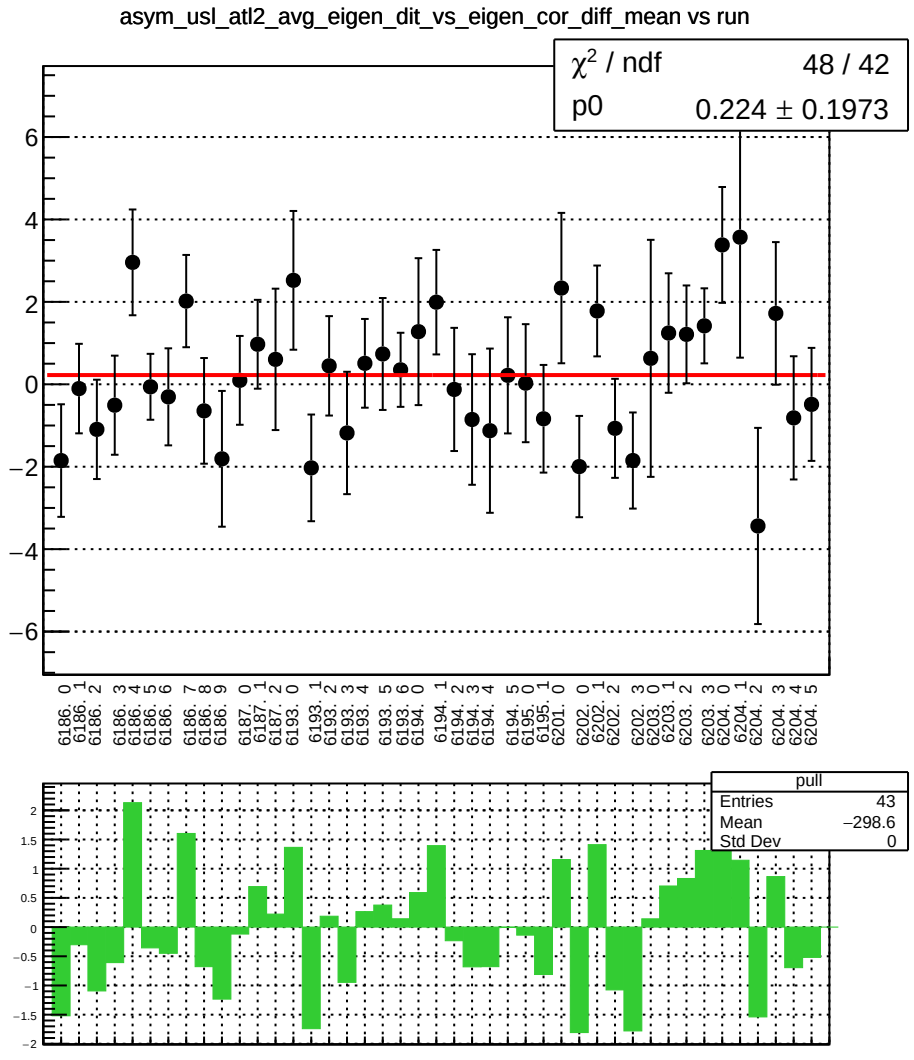

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 47.52 / 42
p0 −9.419e−06 ± 1.799e−05
pull
Entries 43
Mean 3113
Std Dev 0

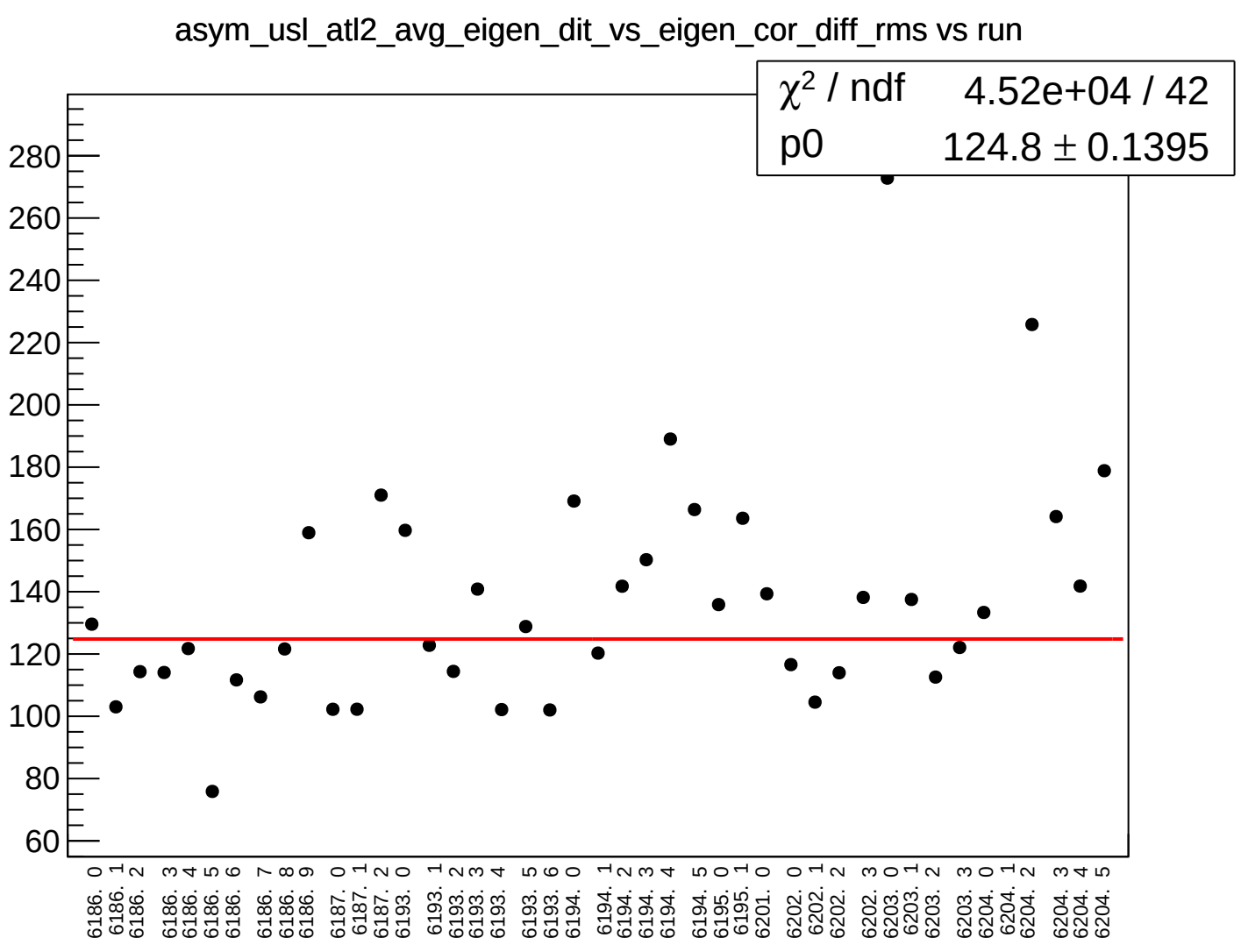

pull1D
Entries 43
Mean −0.0003758
Std Dev 1.051

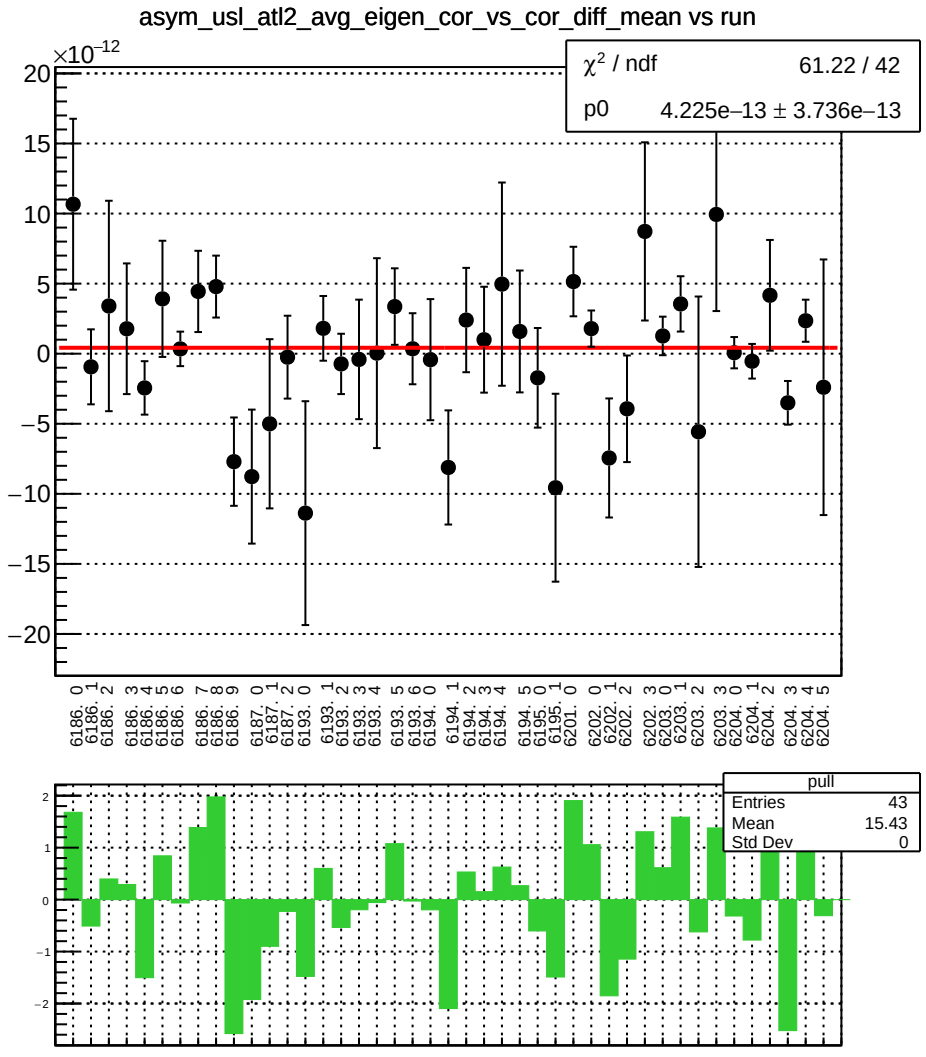

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4206 / 42
p0 0.01166 ± 1.272e–05
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

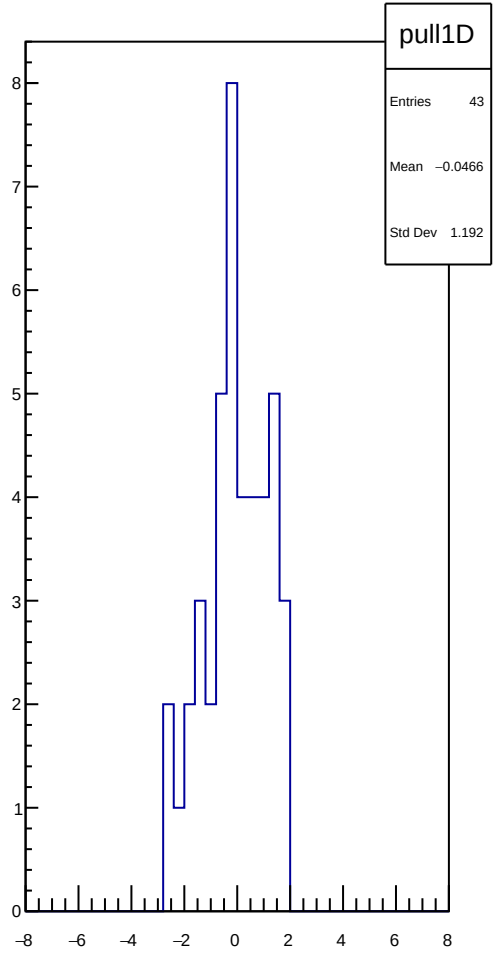

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48 / 42
p0 0.224 ± 0.1973
pull
Entries 43
Mean −298.6
Std Dev 0
pull1D
Entries 43
Mean −0.005054
Std Dev 1.056

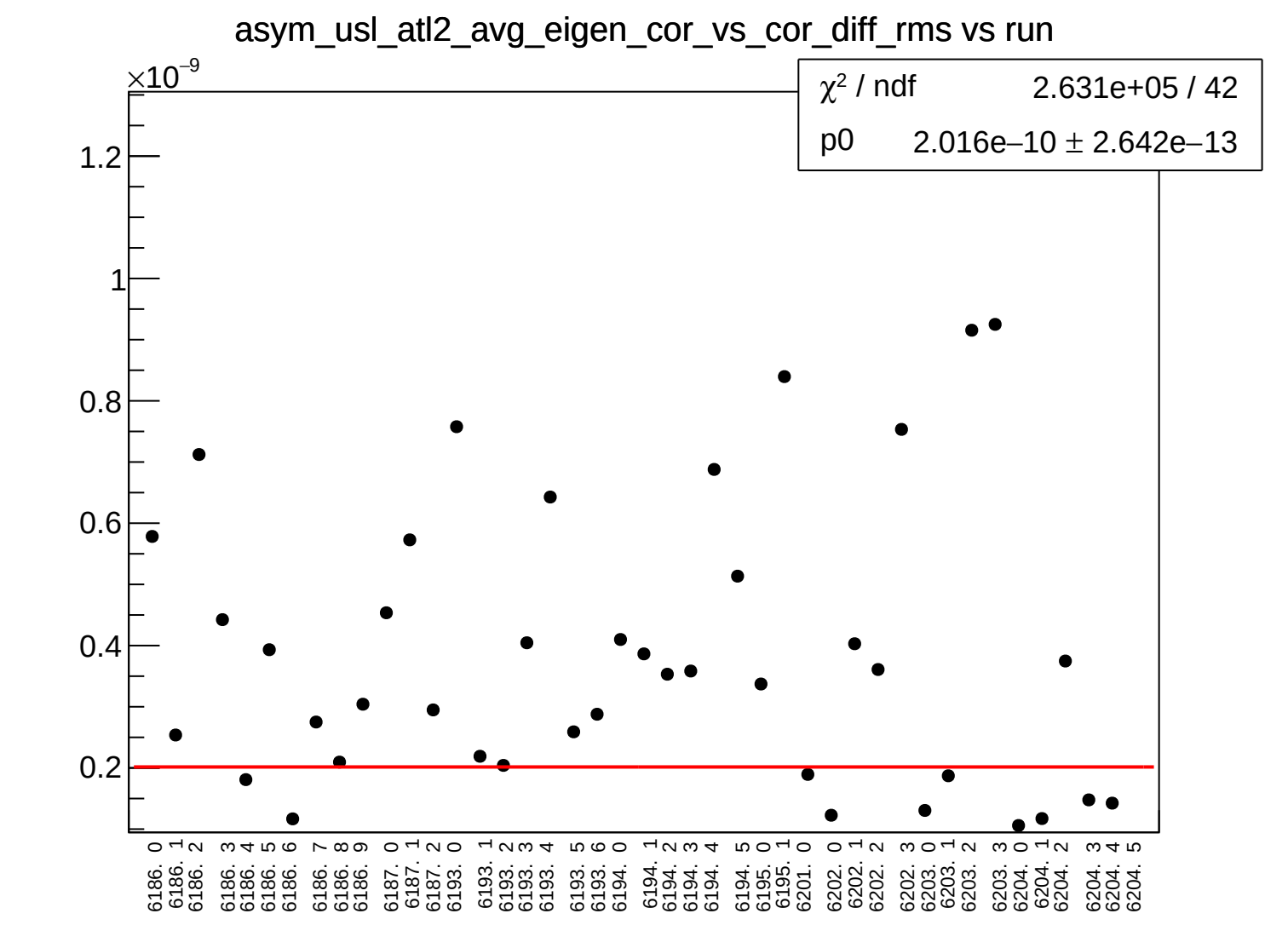

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.52e+04 / 42
p0 124.8 ± 0.1395
280
260
240
220
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

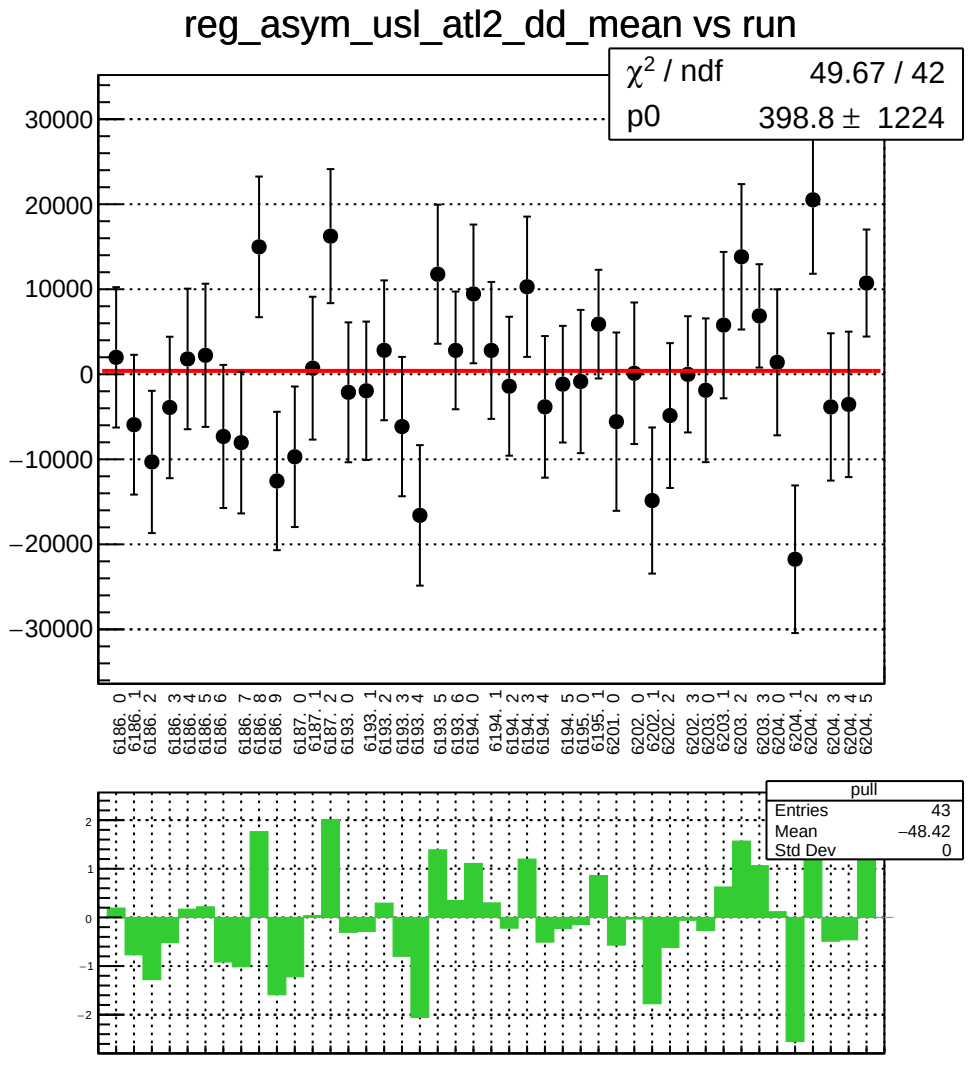

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48 / 42
p0 0.224 ± 0.1973
pull
Entries 43
Mean −298.6
Std Dev 0
pull1D
Entries 43
Mean −0.005054
Std Dev 1.056

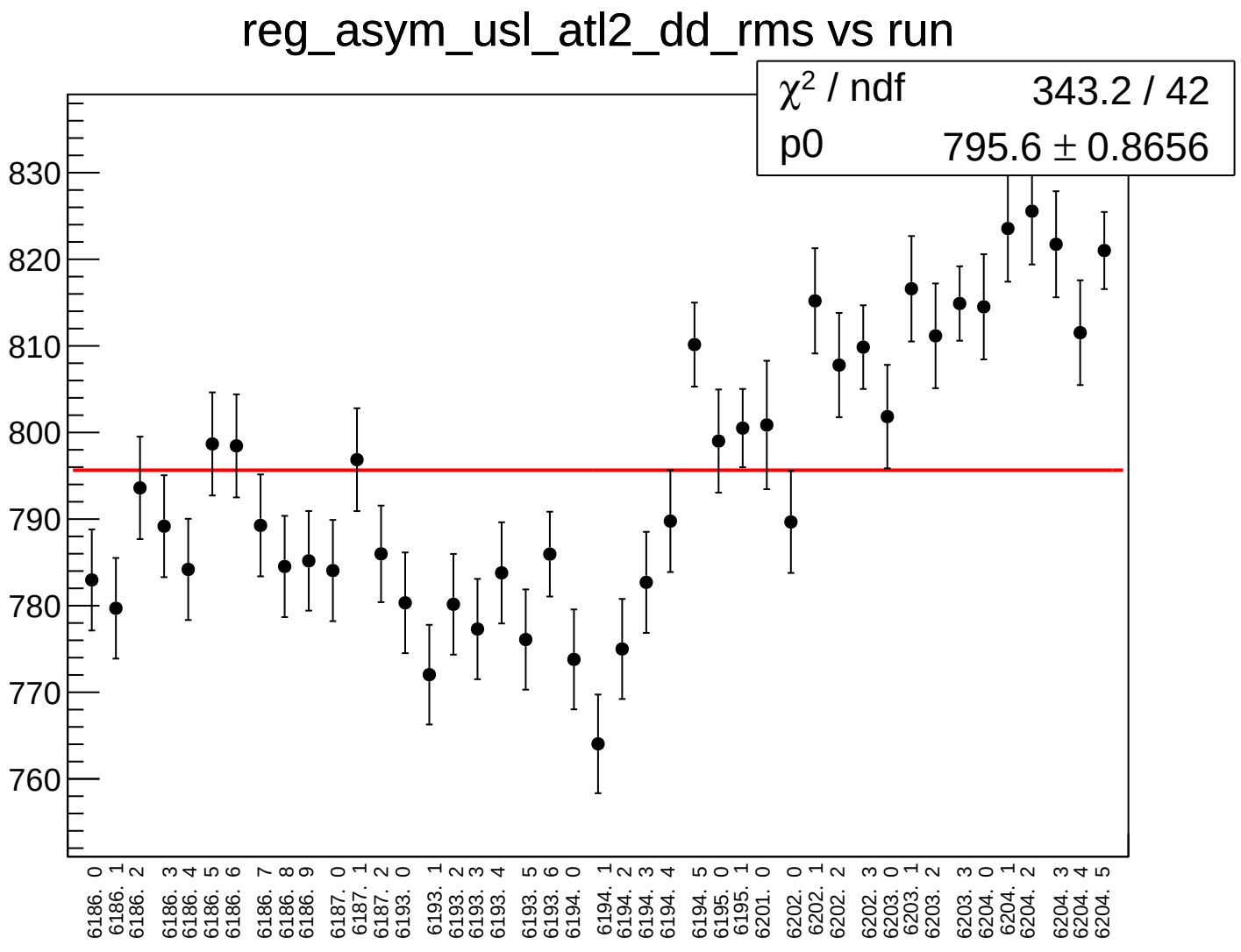

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.52e+04 / 42
p0 124.8 ± 0.1395
280
260
240
220
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

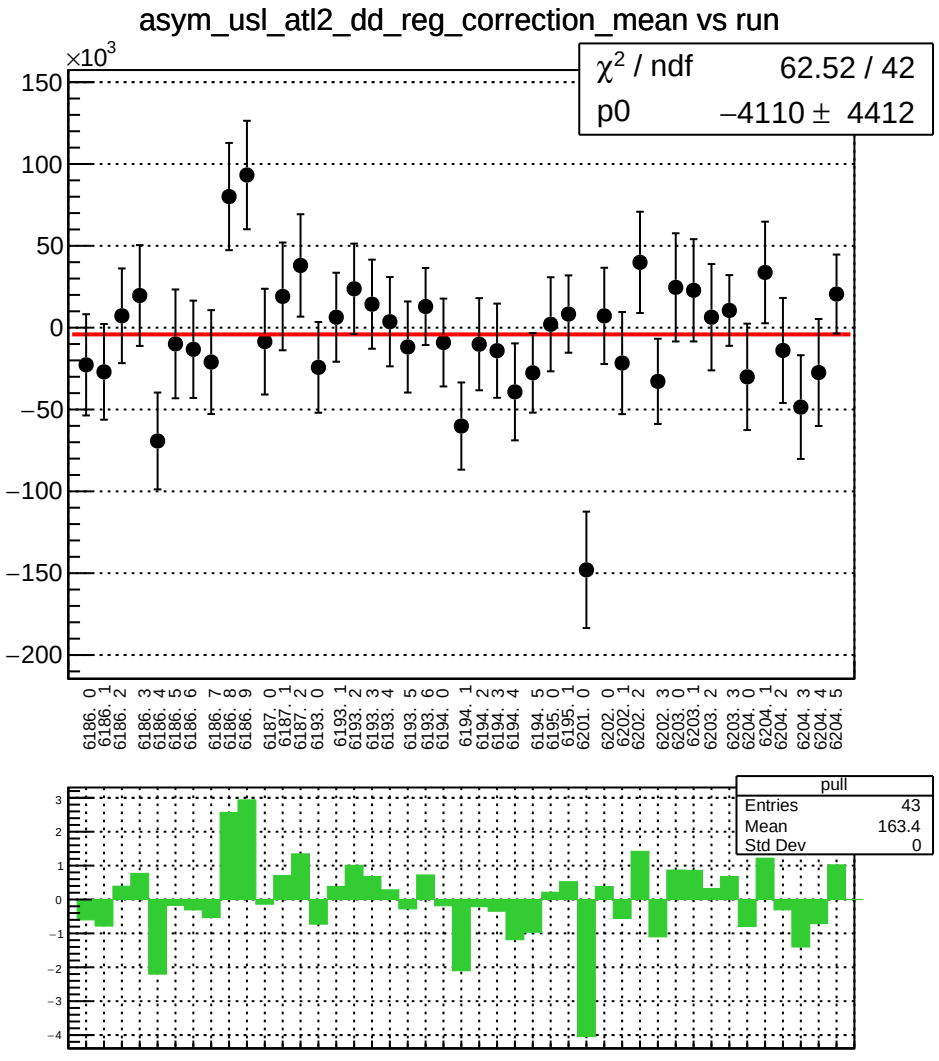

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.22 / 42
p0 4.225e−13 ± 3.736e−13
pull
Entries 43
Mean 15.43
Std Dev 0

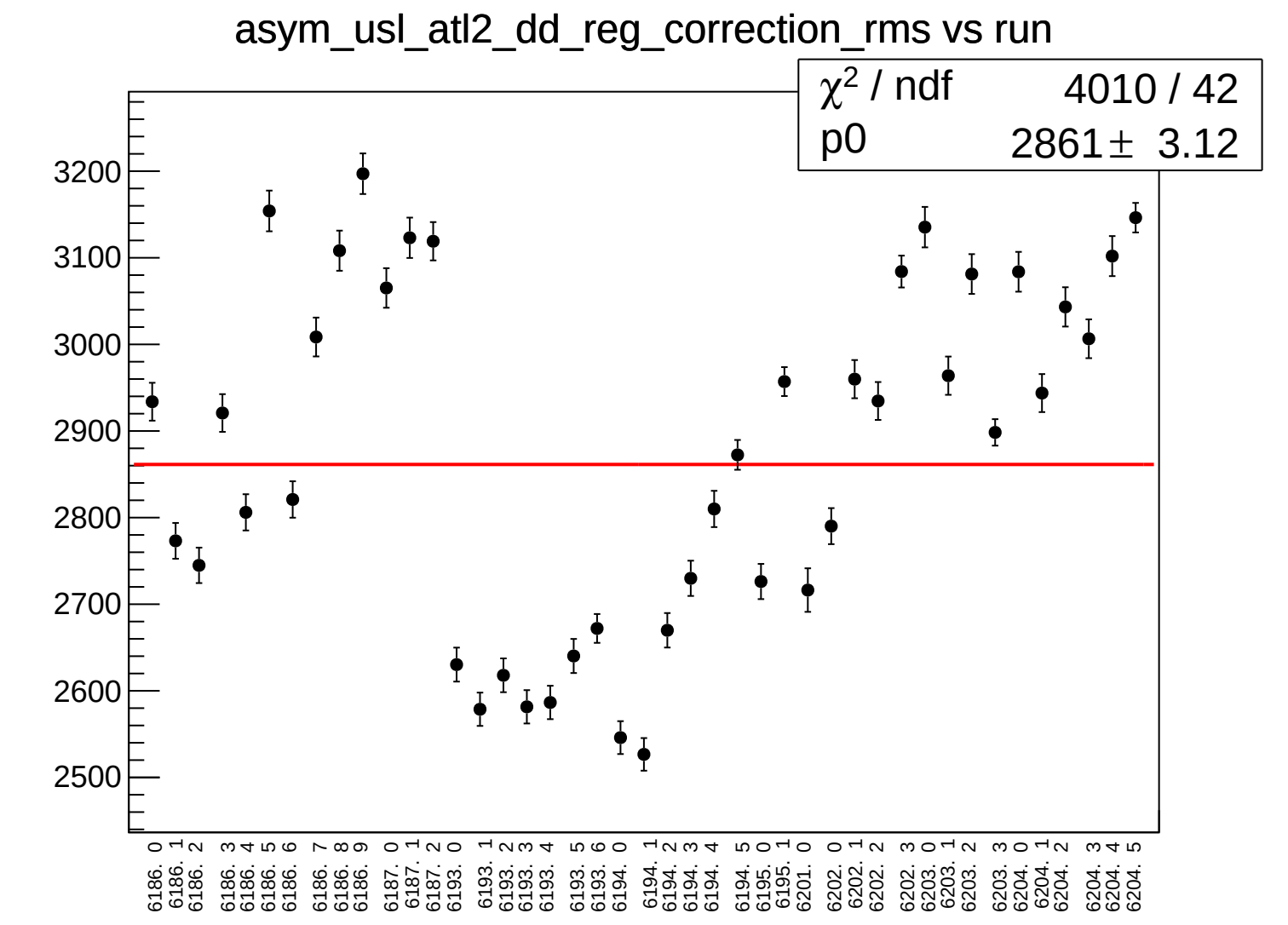

pull1D
Entries 43
Mean −0.0466
Std Dev 1.192

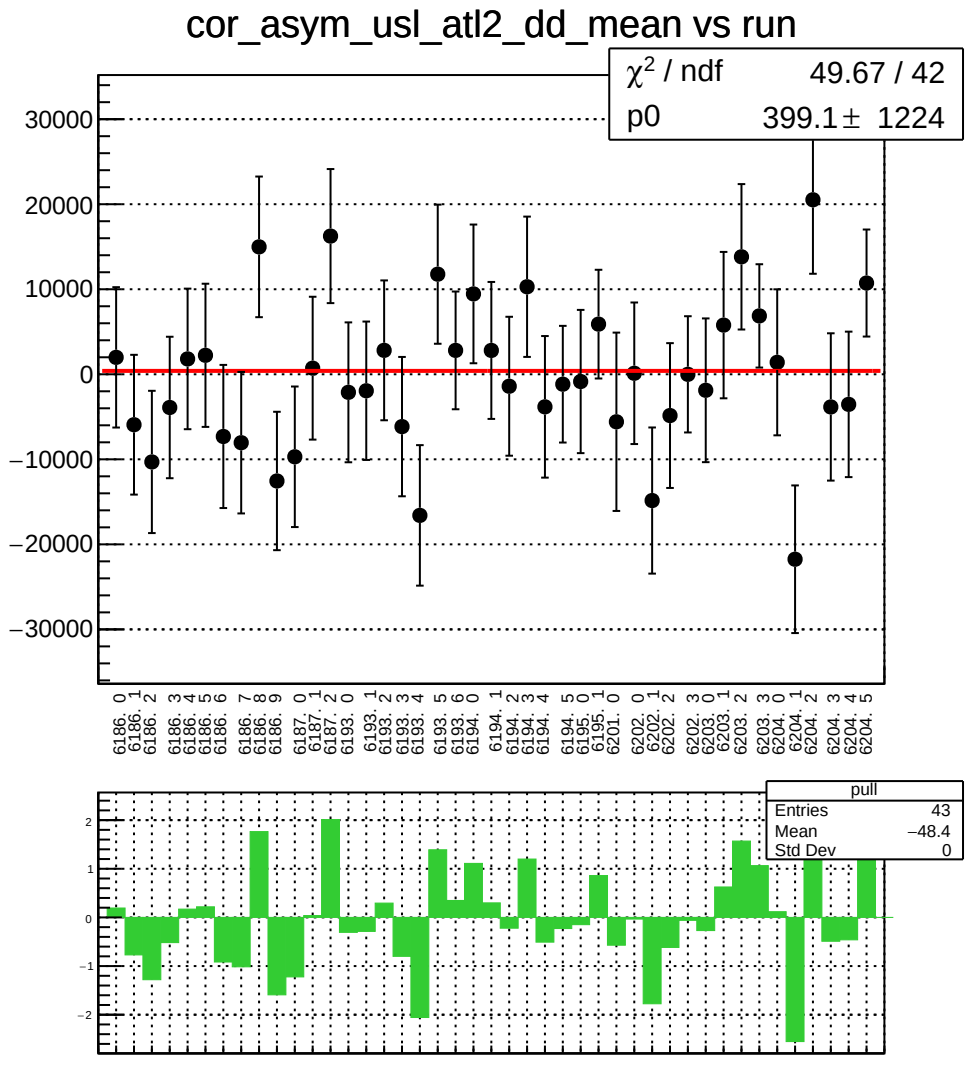

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.631e+05 / 42
p0 2.016e−10 ± 2.642e−13
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

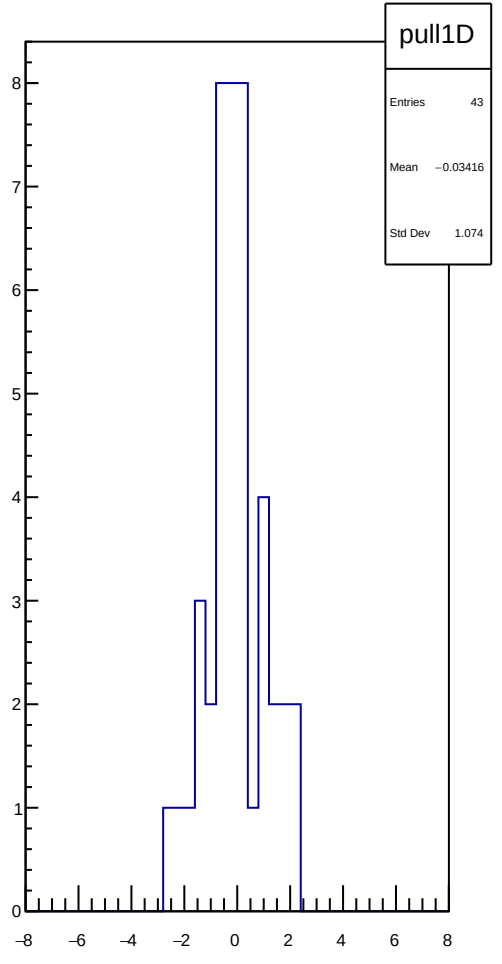

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 49.67 / 42
p0 398.8 ± 1224
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −48.42
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03415
Std Dev 1.074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

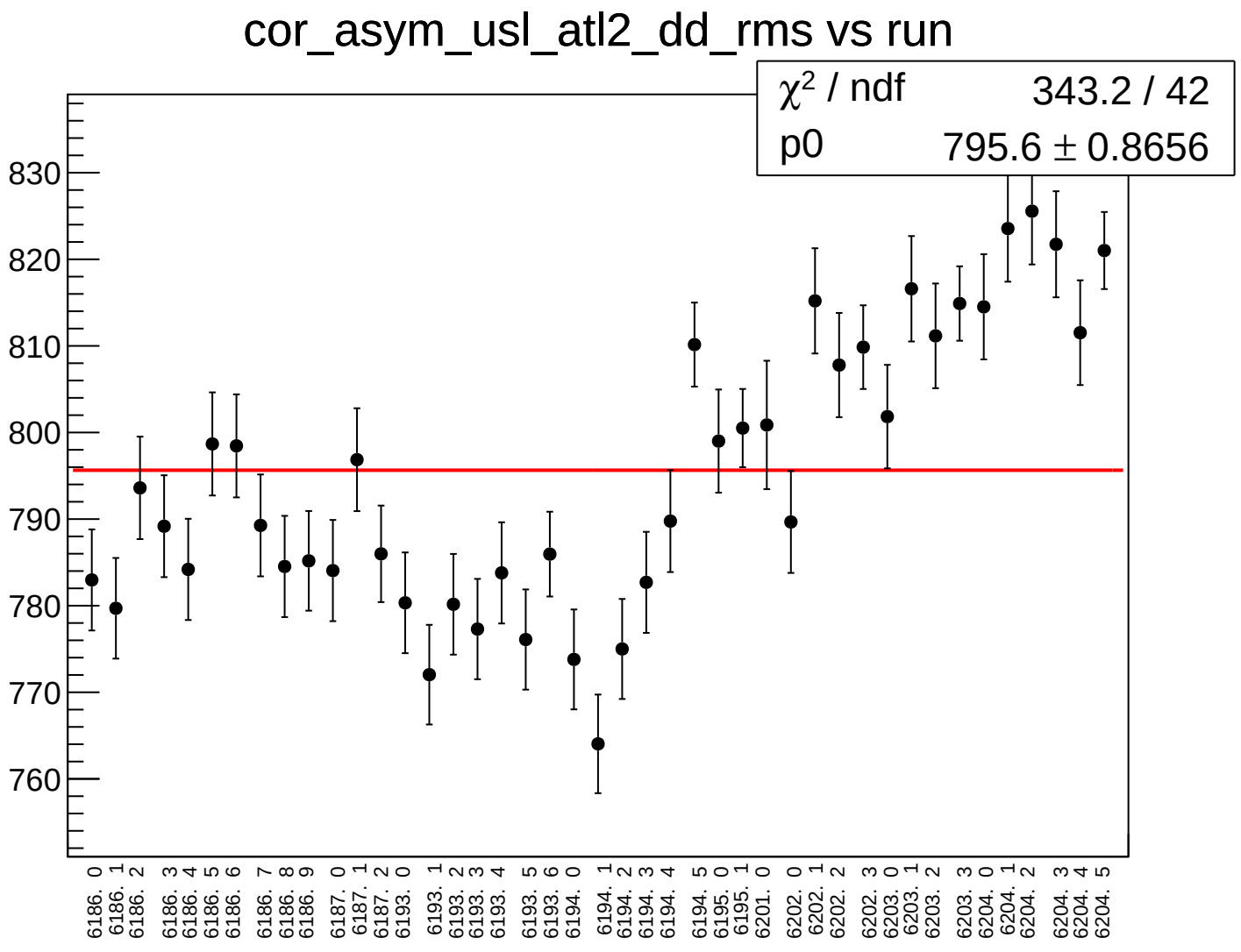

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 343.2 / 42
p0 795.6 ± 0.8656
830
820
810
800
790
780
770
760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 62.52 / 42
p0 −4110 ± 4412
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 163.4
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.007857
Std Dev 1.206
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 4010 / 42
p0 2861 ± 3.12
3200
3100
3000
2900
2800
2700
2600
2500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 49.67 / 42
p0 399.1 ± 1224
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −48.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.03416
Std Dev 1.074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 343.2 / 42
p0 795.6 ± 0.8656
830
820
810
800
790
780
770
760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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6204. 2
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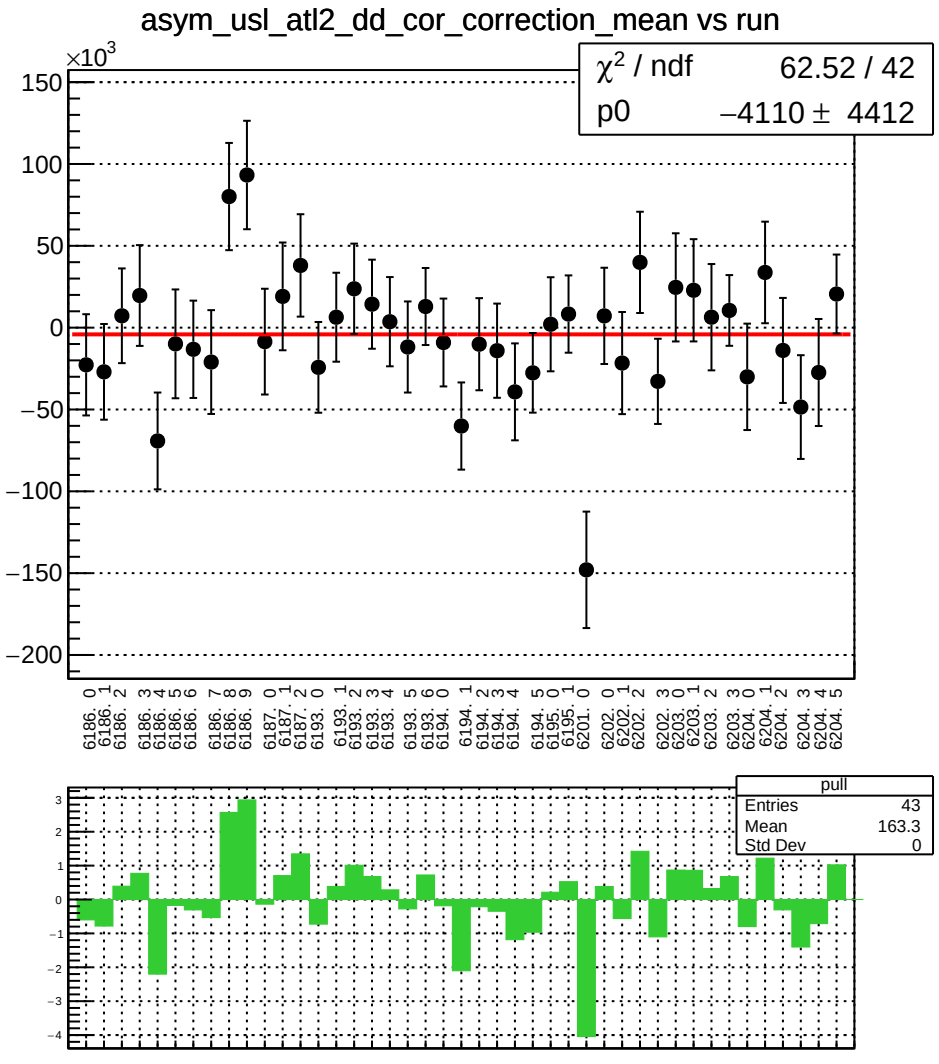
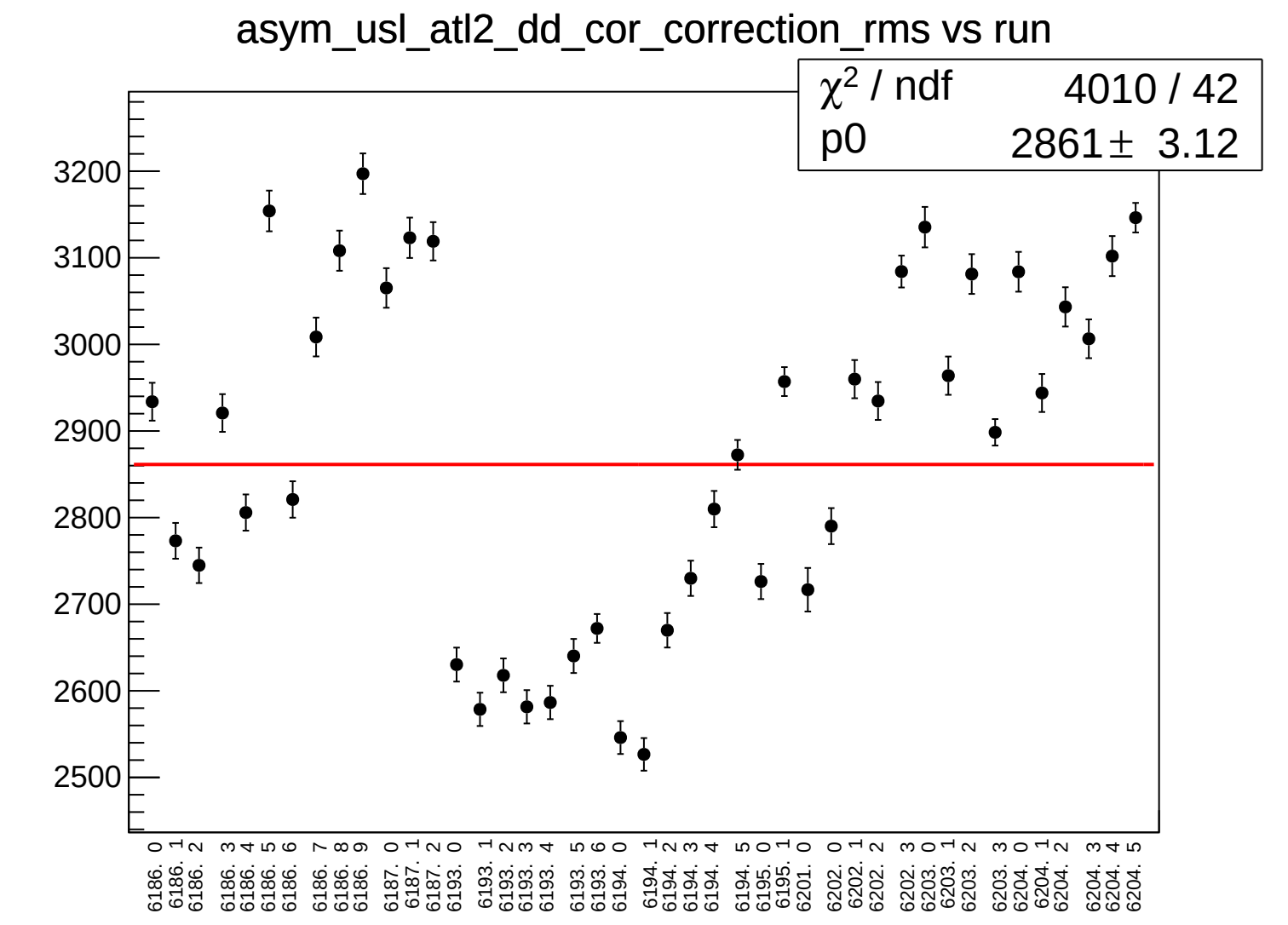
6204. 4
6204. 5


asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 62.52 / 42
p0 −4110 ± 4412
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 163.3
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.007861
Std Dev 1.206
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 4010 / 42
p0 2861 ± 3.12
3200
3100
3000
2900
2800
2700
2600
2500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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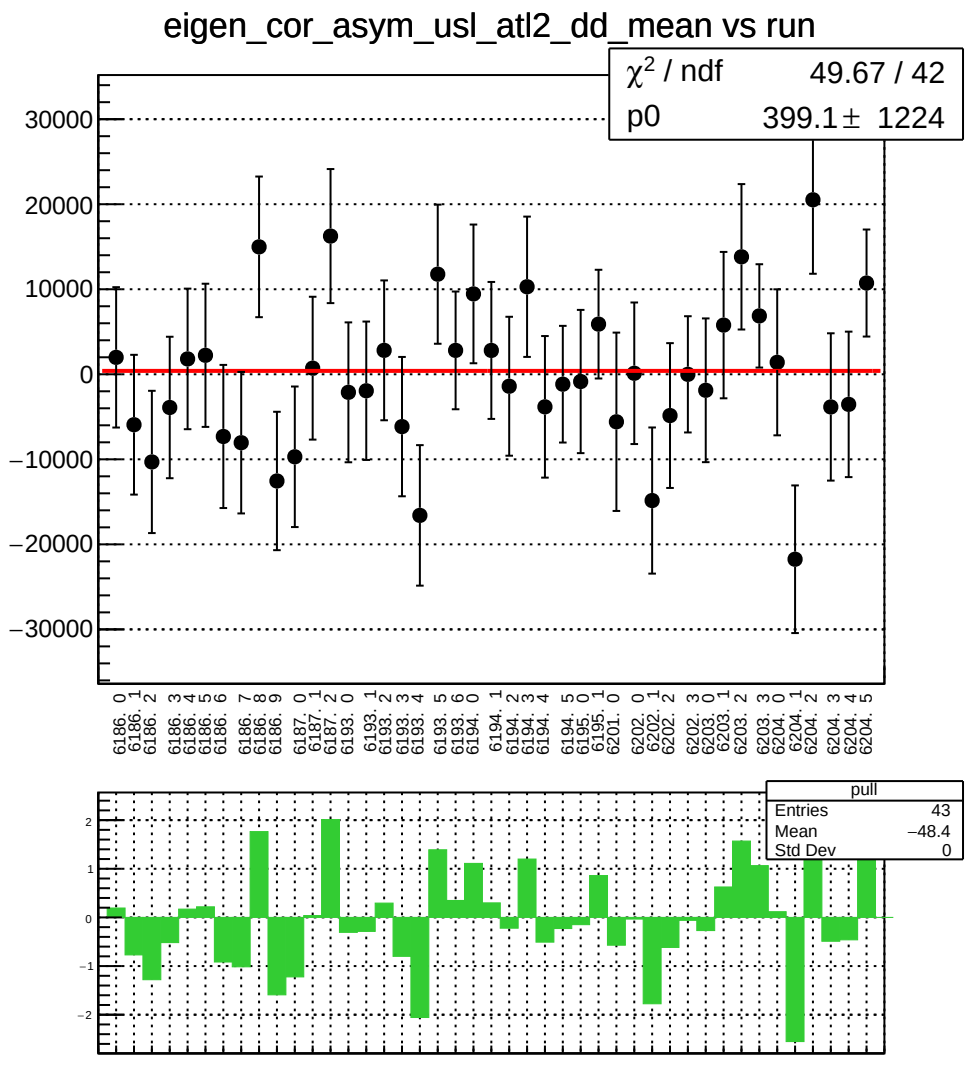
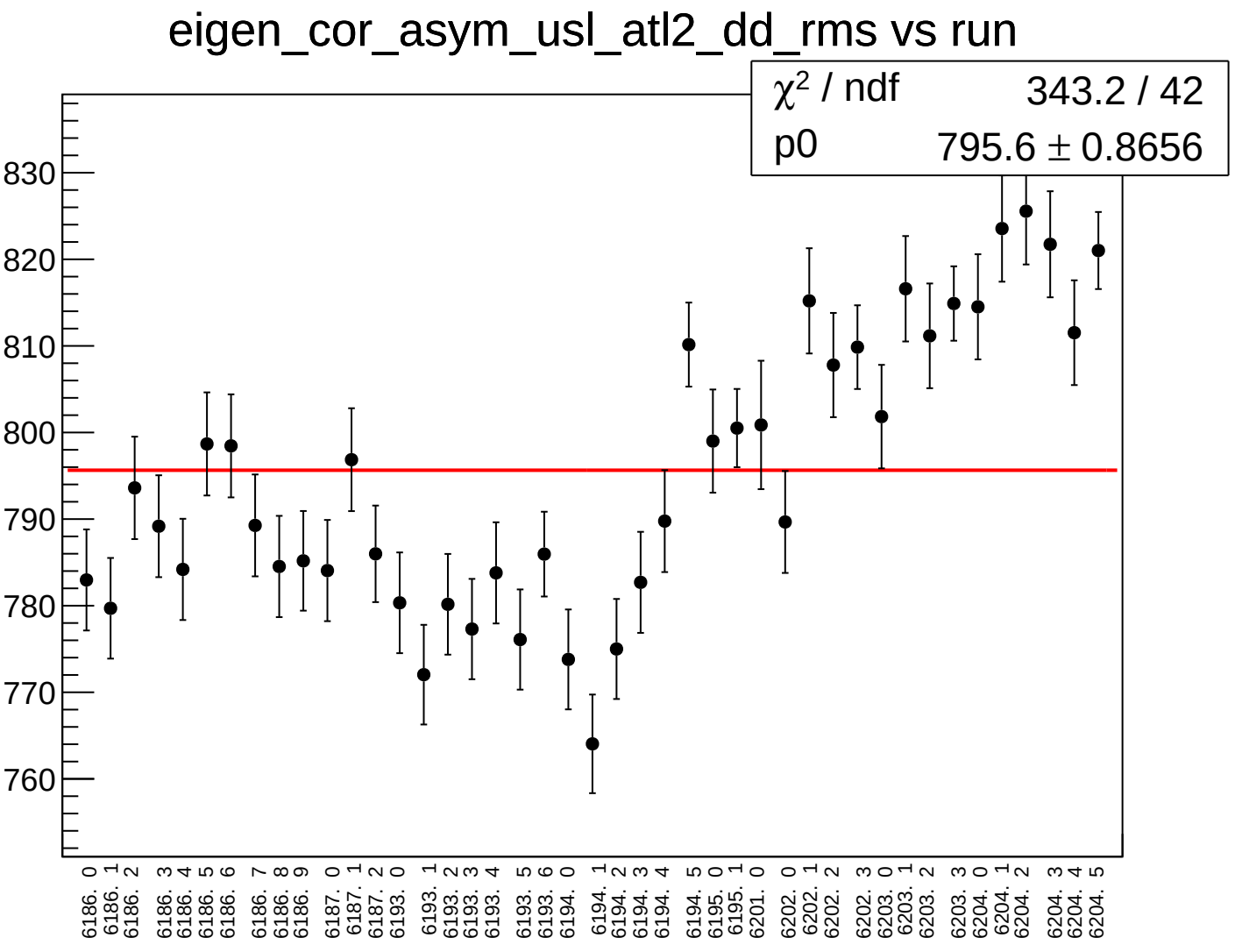
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 49.67 / 42
p0 399.1 ± 1224
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −48.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03416
Std Dev 1.074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 343.2 / 42
p0 795.6 ± 0.8656
830
820
810
800
790
780
770
760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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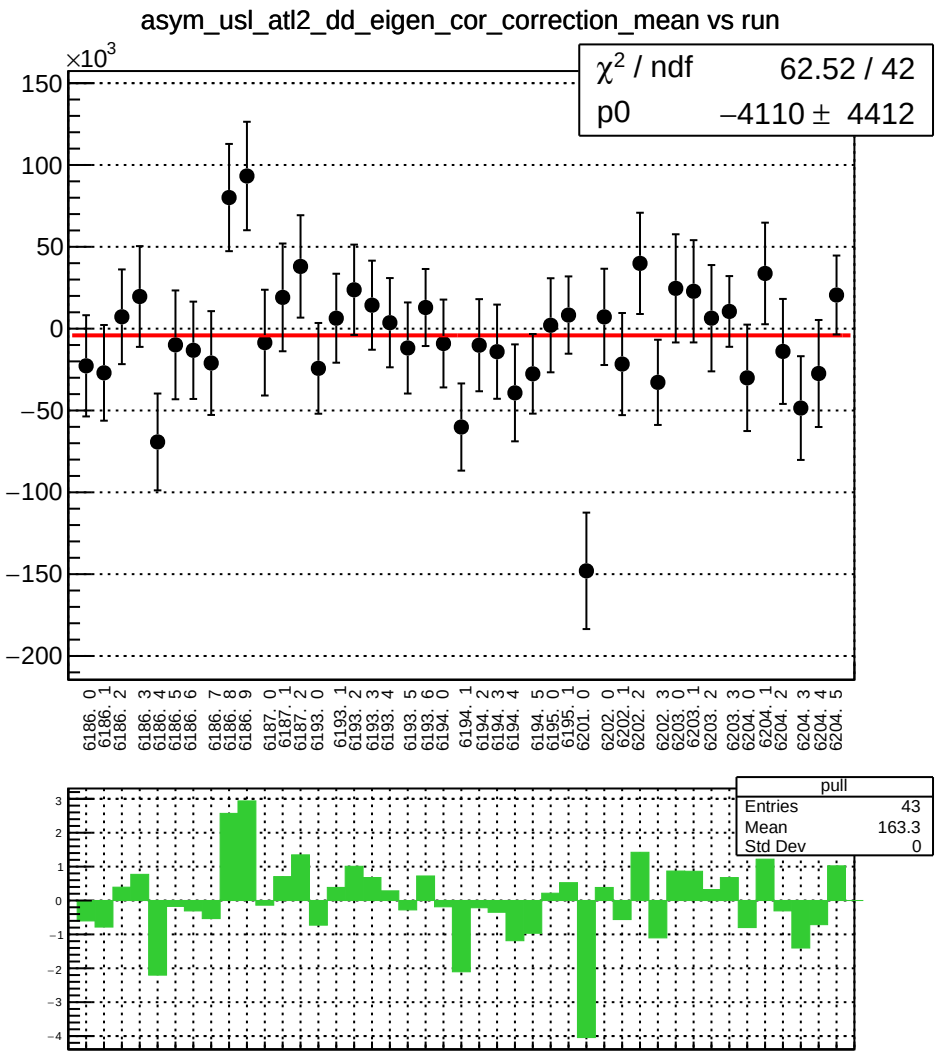
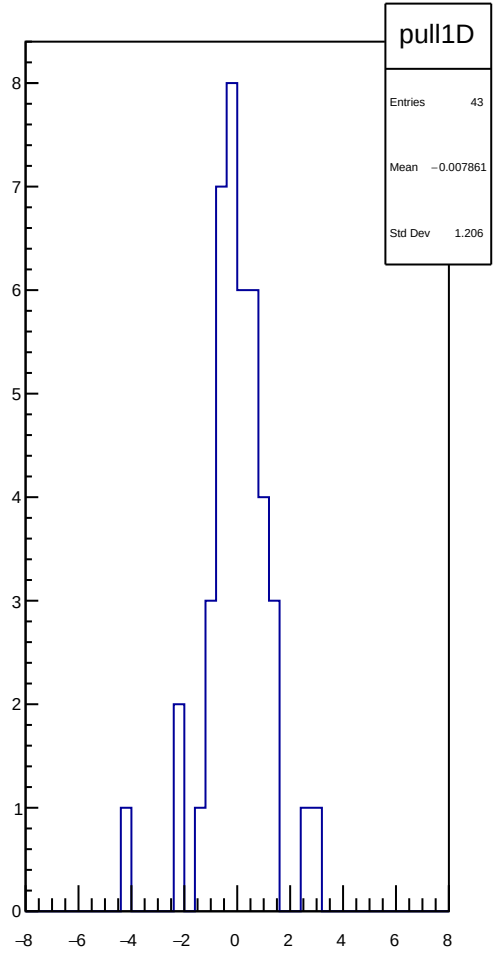
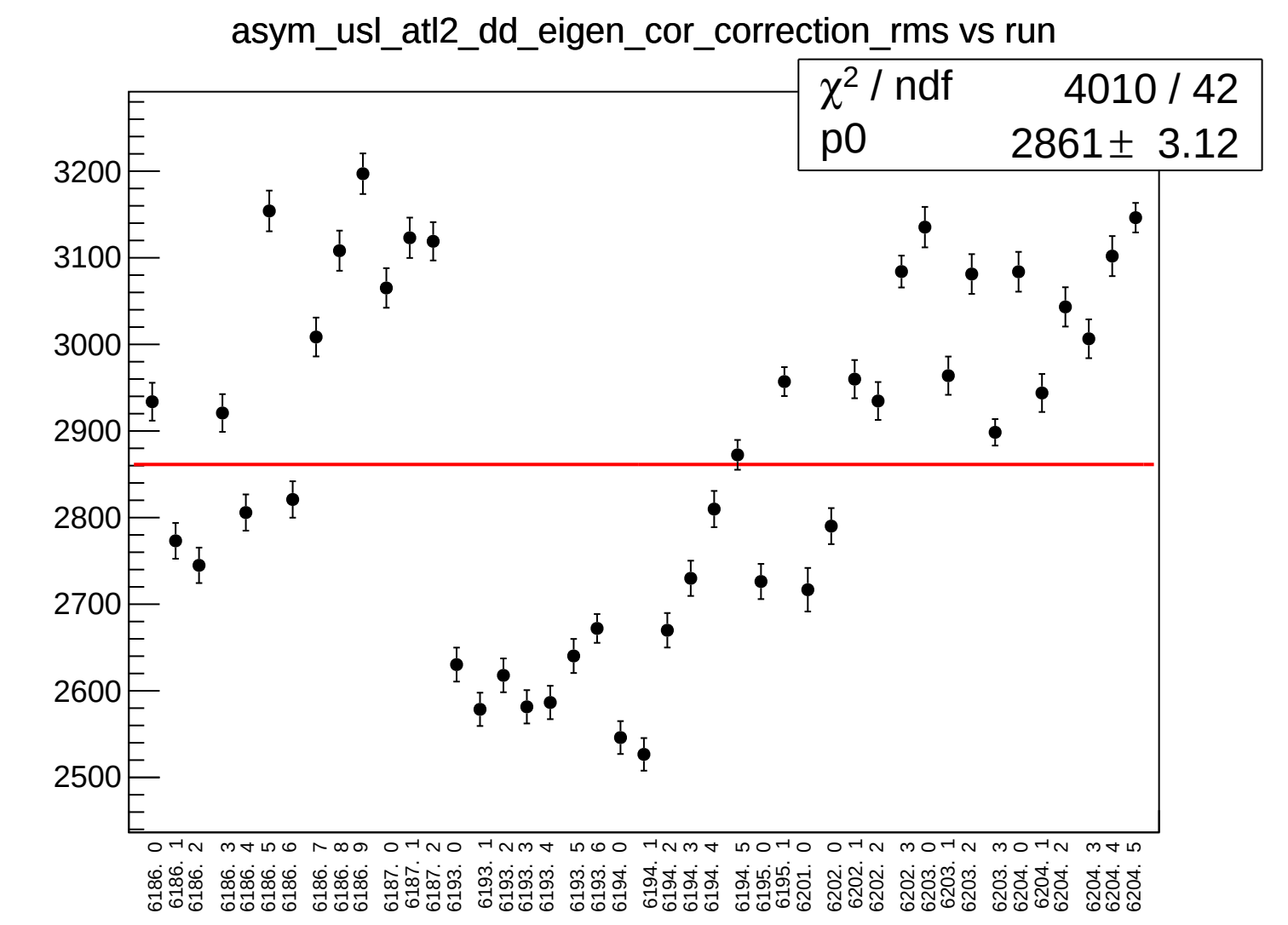
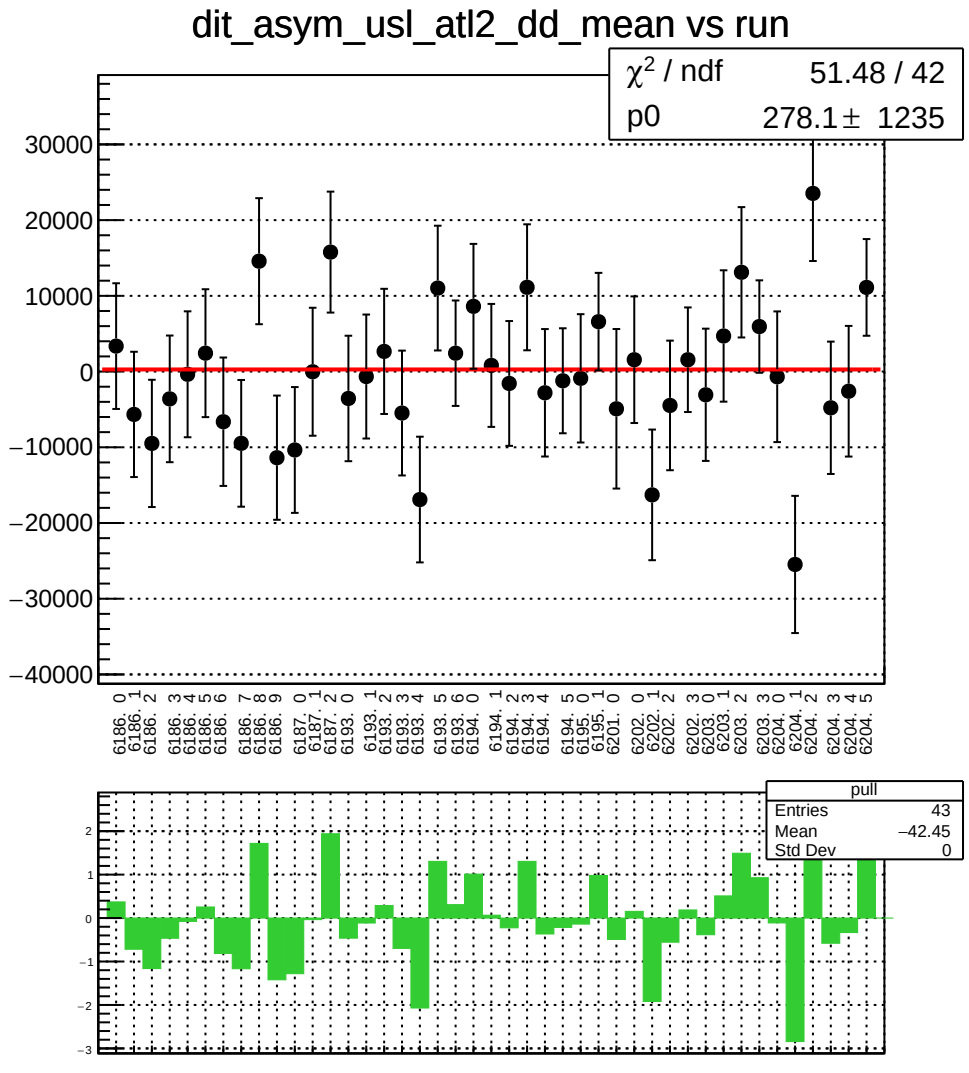
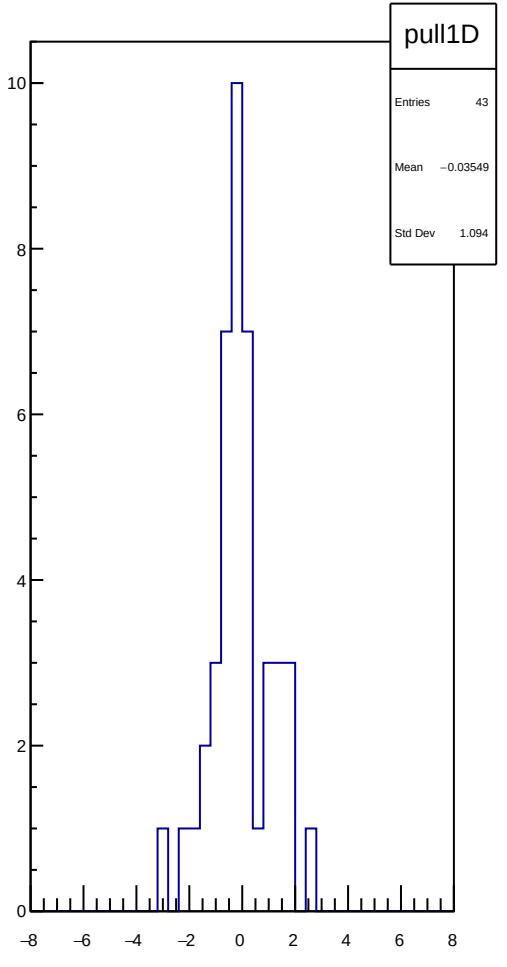
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

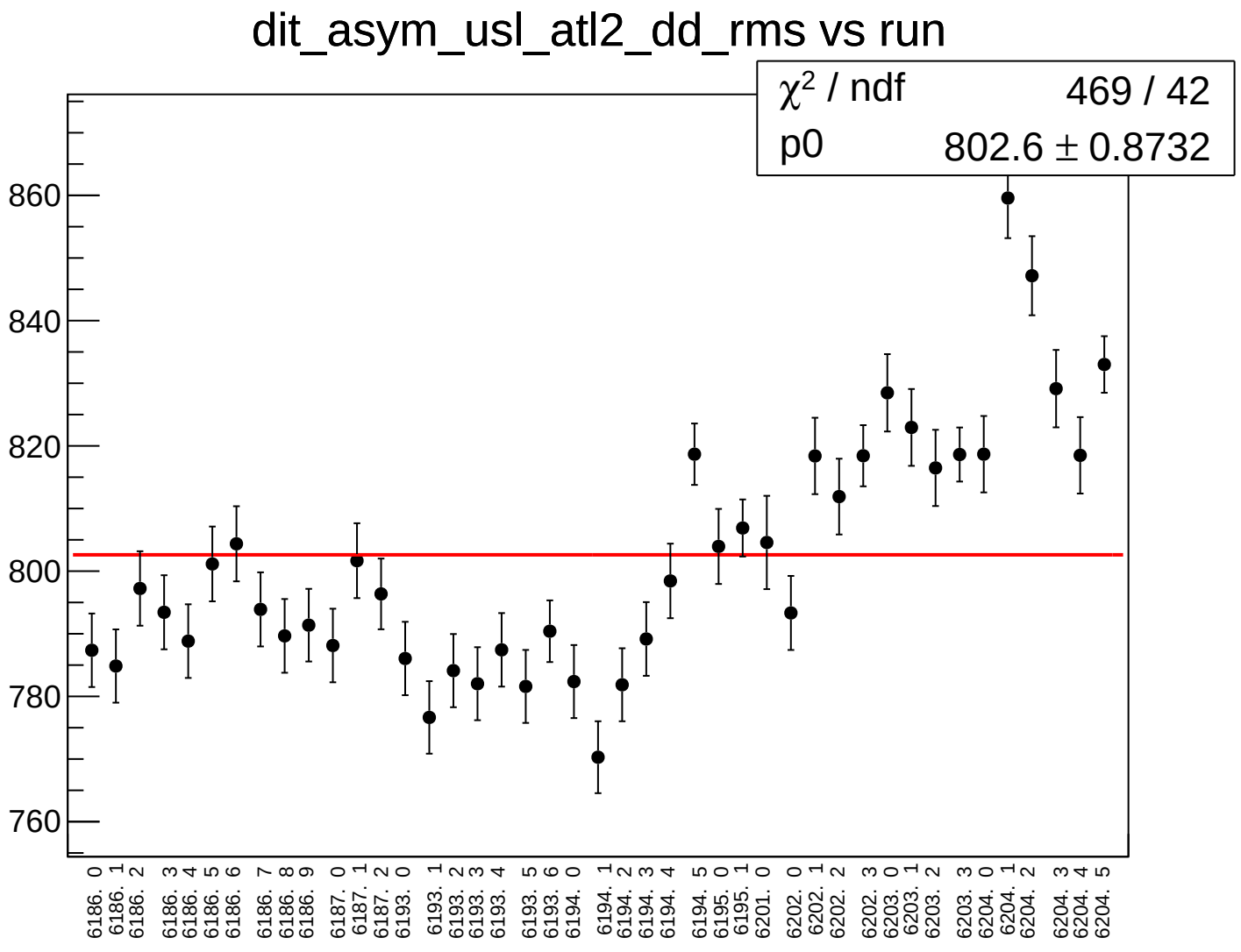

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 62.52 / 42
p0 −4110 ± 4412
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 163.3
Std Dev 0
3
2
1
0
−1
−2
−3
−4

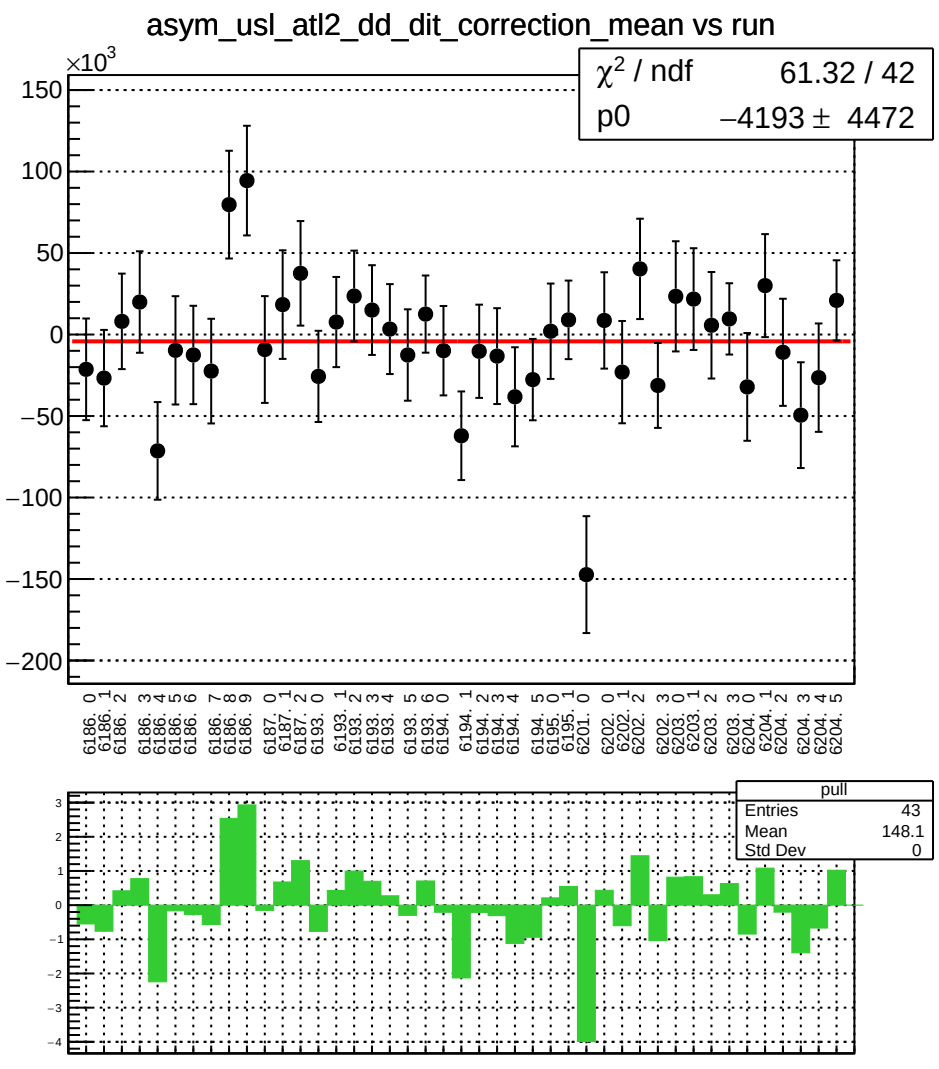

pull1D
Entries 43
Mean −0.007861
Std Dev 1.206
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

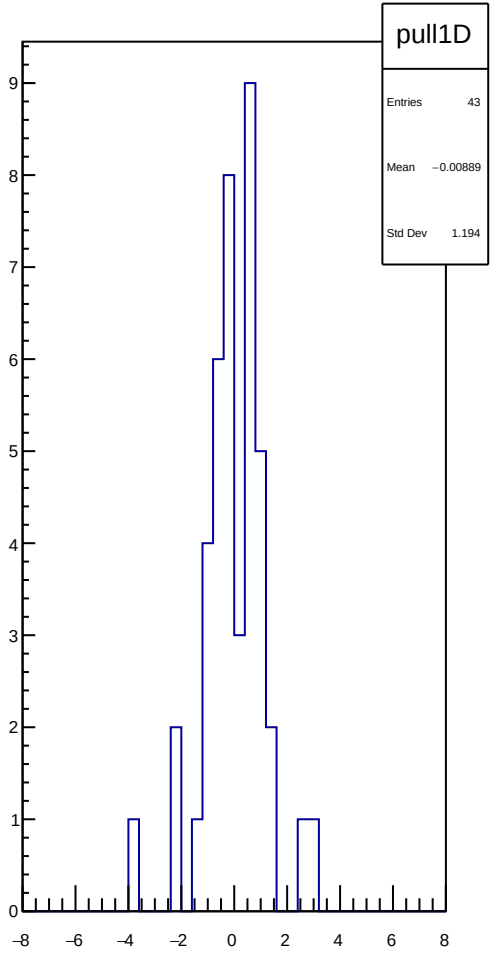

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4010 / 42
p0 2861 ± 3.12
3200
3100
3000
2900
2800
2700
2600
2500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

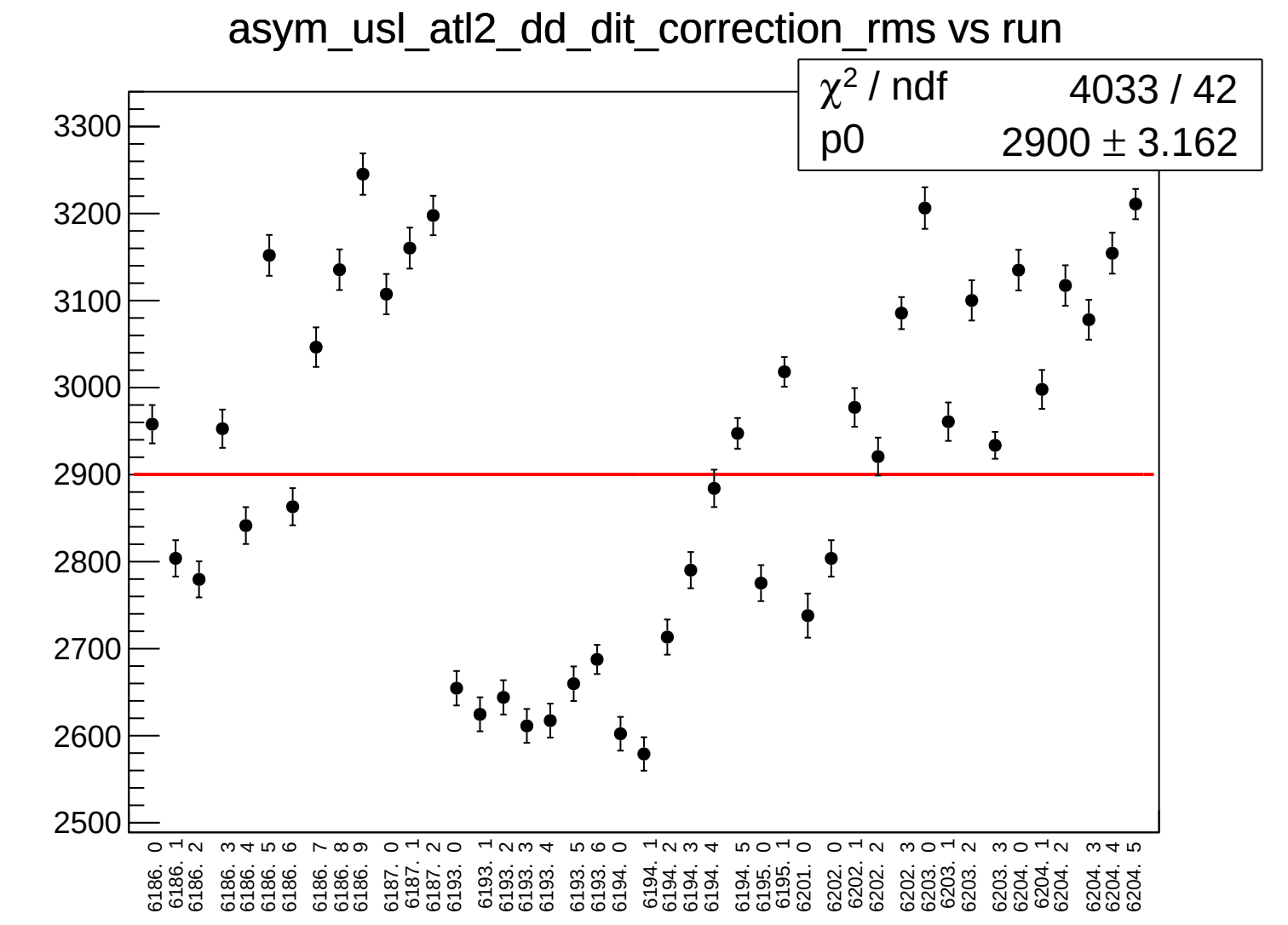

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 51.48 / 42
p0 278.1± 1235
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −42.45
Std Dev 0
2
1
0
−1
−2
−3

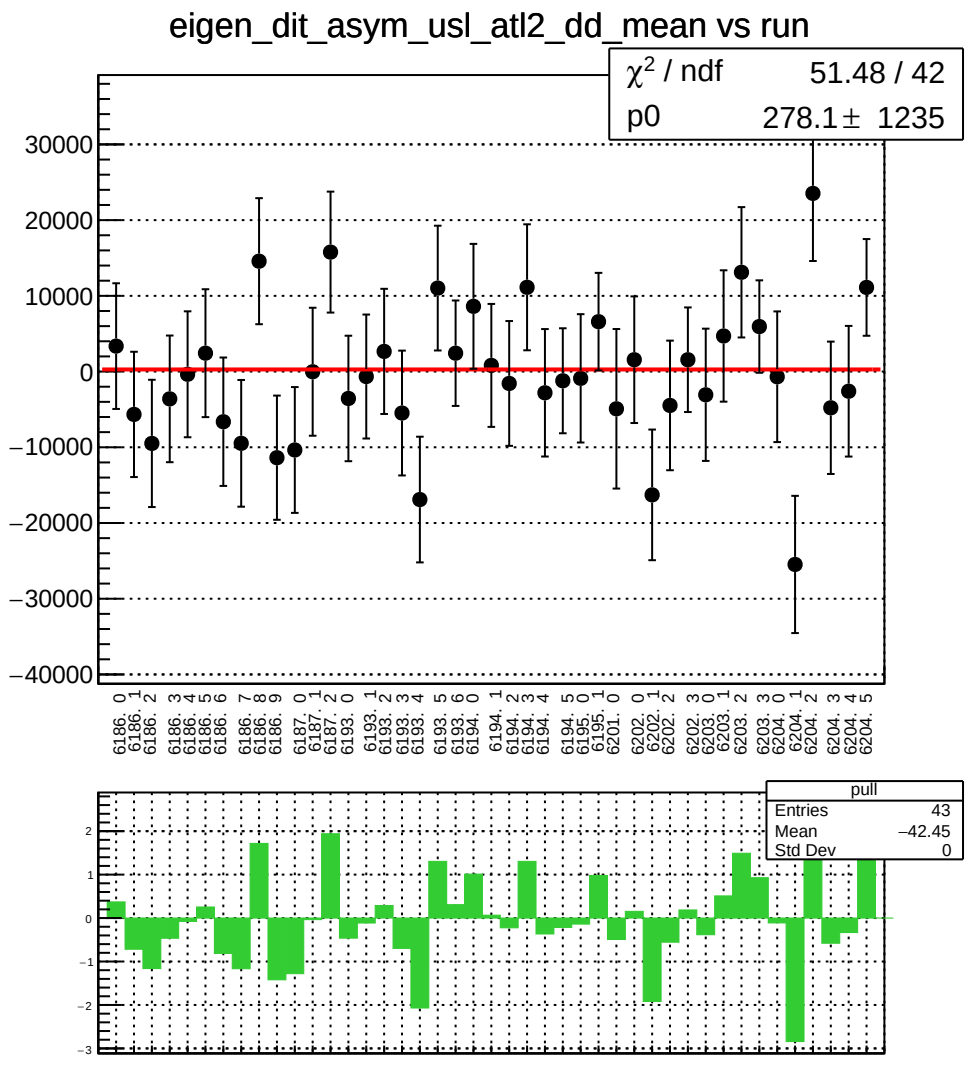

pull1D
Entries 43
Mean −0.03549
Std Dev 1.094
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

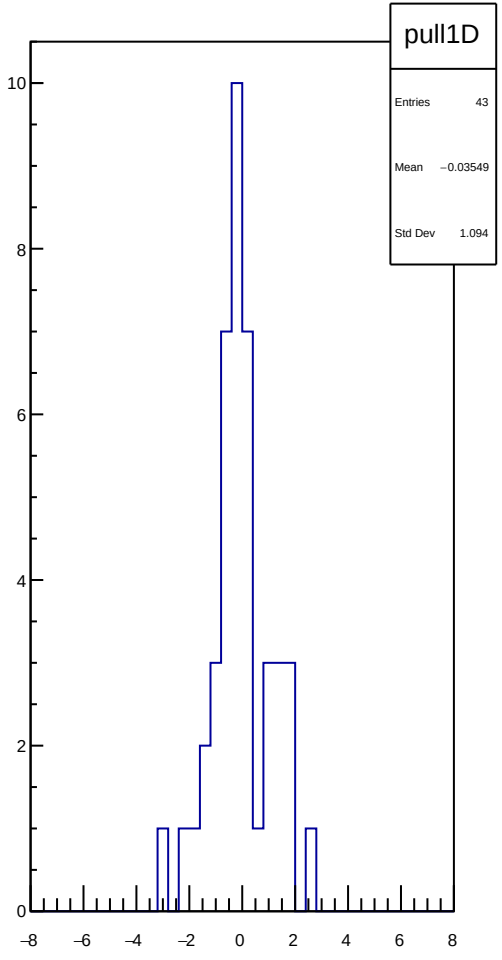

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 469 / 42
p0 802.6 ± 0.8732
860
840
820
800
780
760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

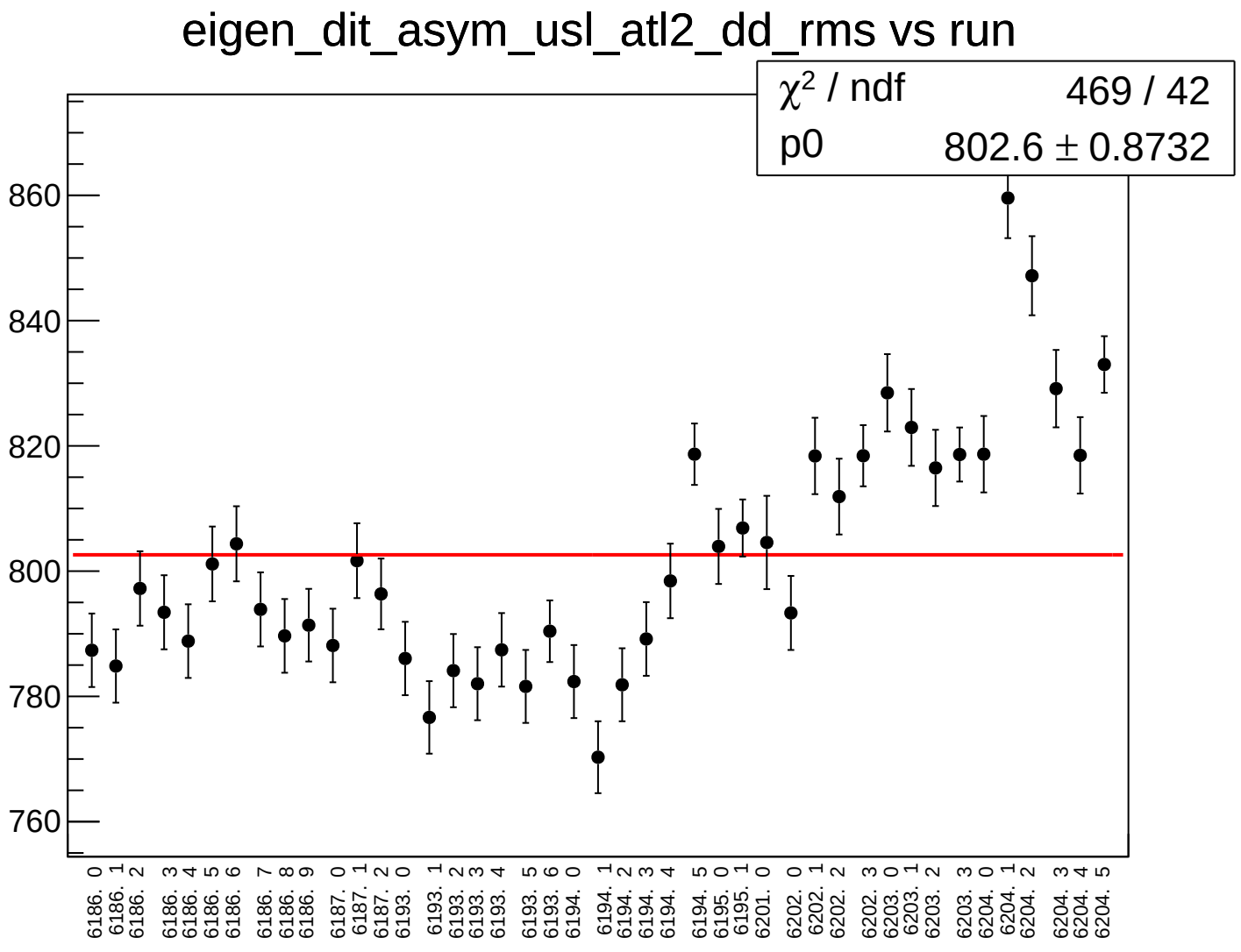

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 61.32 / 42
p0 −4193 ± 4472
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 148.1
Std Dev 0
3
2
1
0
−1
−2
−3
−4


pull1D
Entries 43
Mean −0.00889
Std Dev 1.194
9
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 4033 / 42
p0 2900 ± 3.162
3300
3200
3100
3000
2900
2800
2700
2600
2500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 51.48 / 42
p0 278.1± 1235
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −42.45
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.03549
Std Dev 1.094
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 469 / 42
p0 802.6 ± 0.8732
860
840
820
800
780
760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
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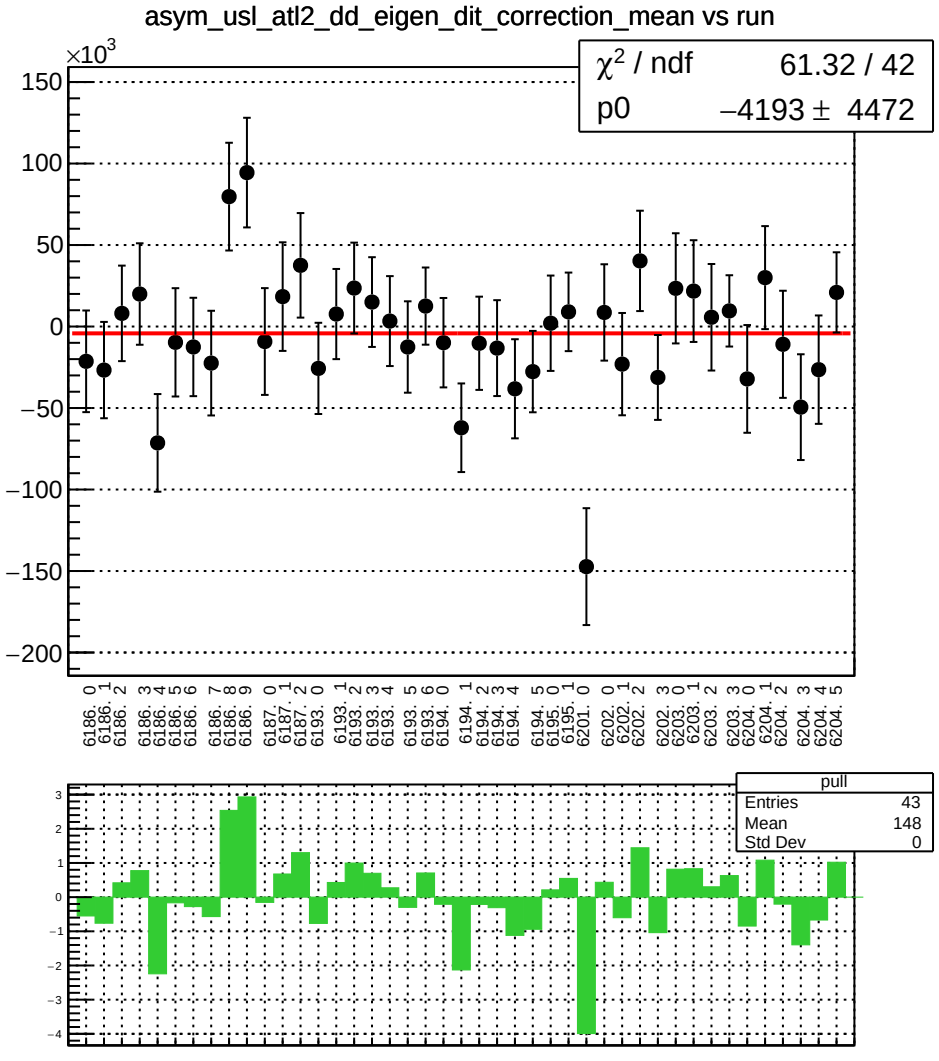
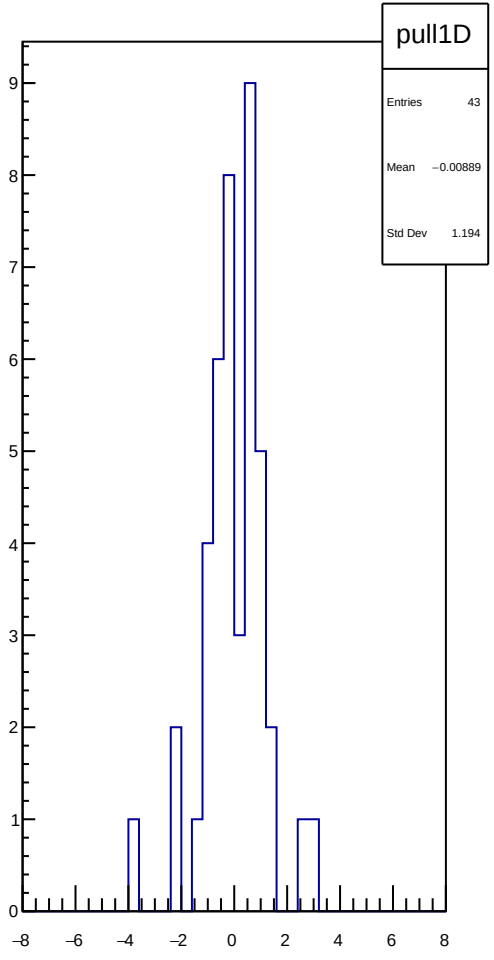
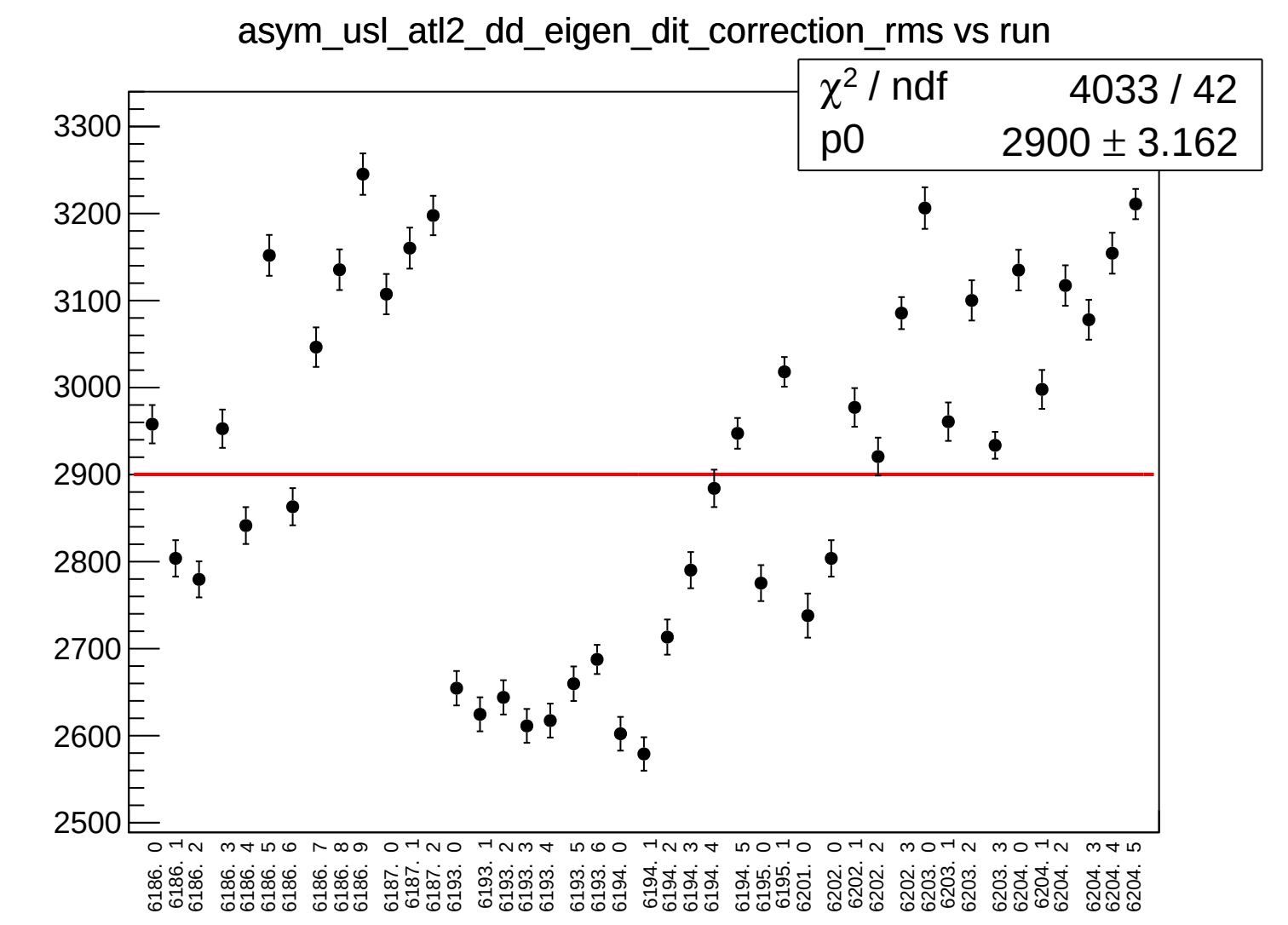
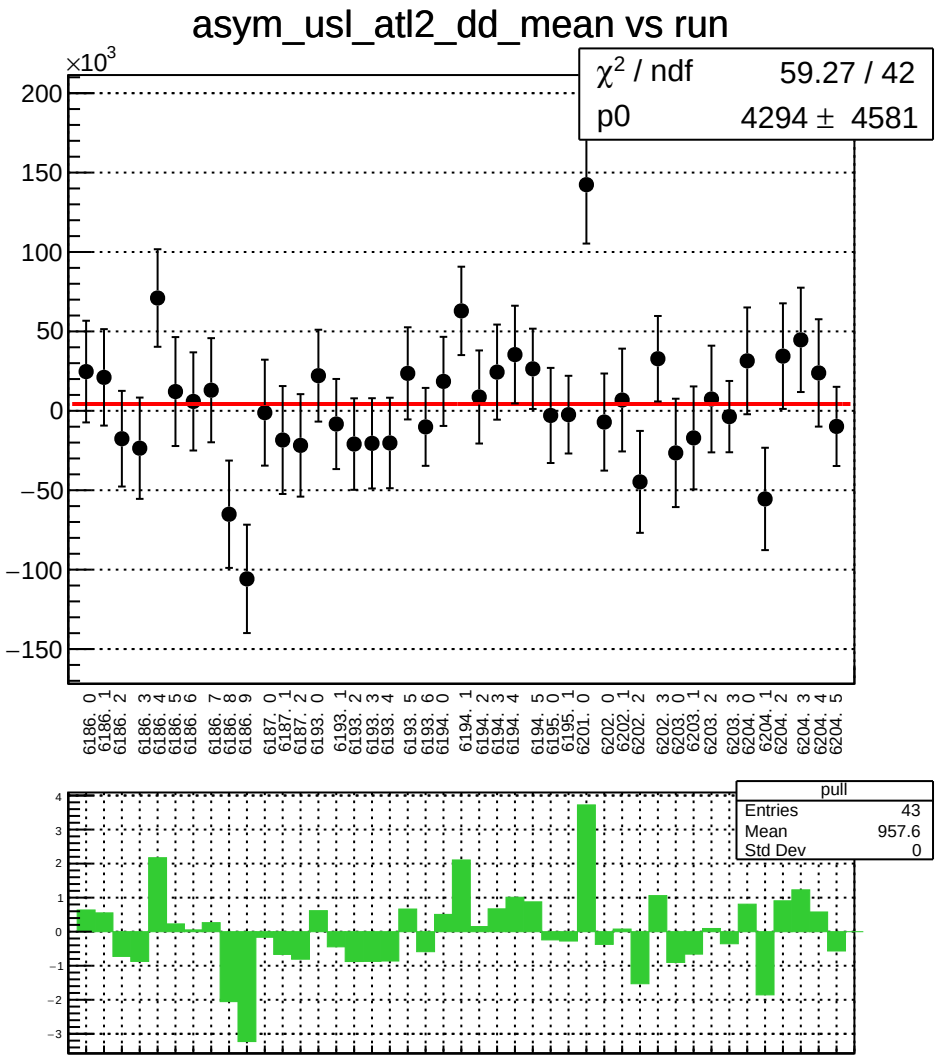
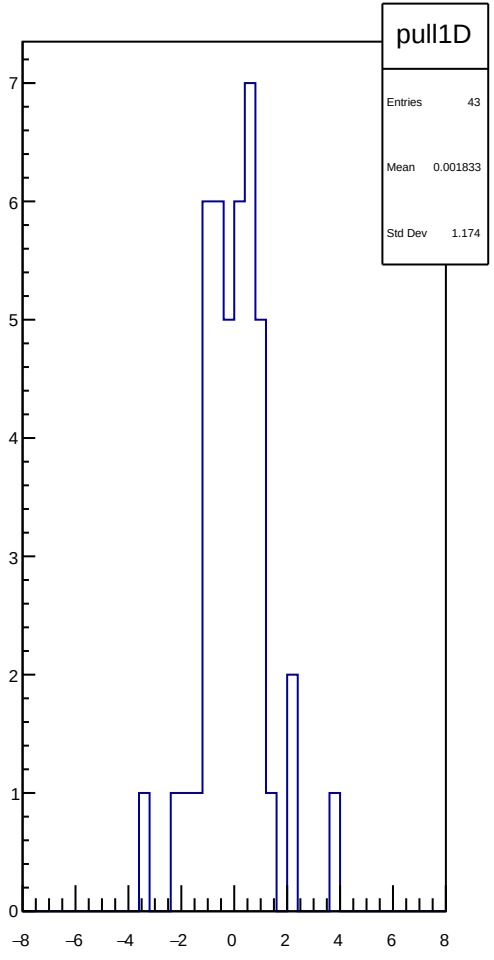
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

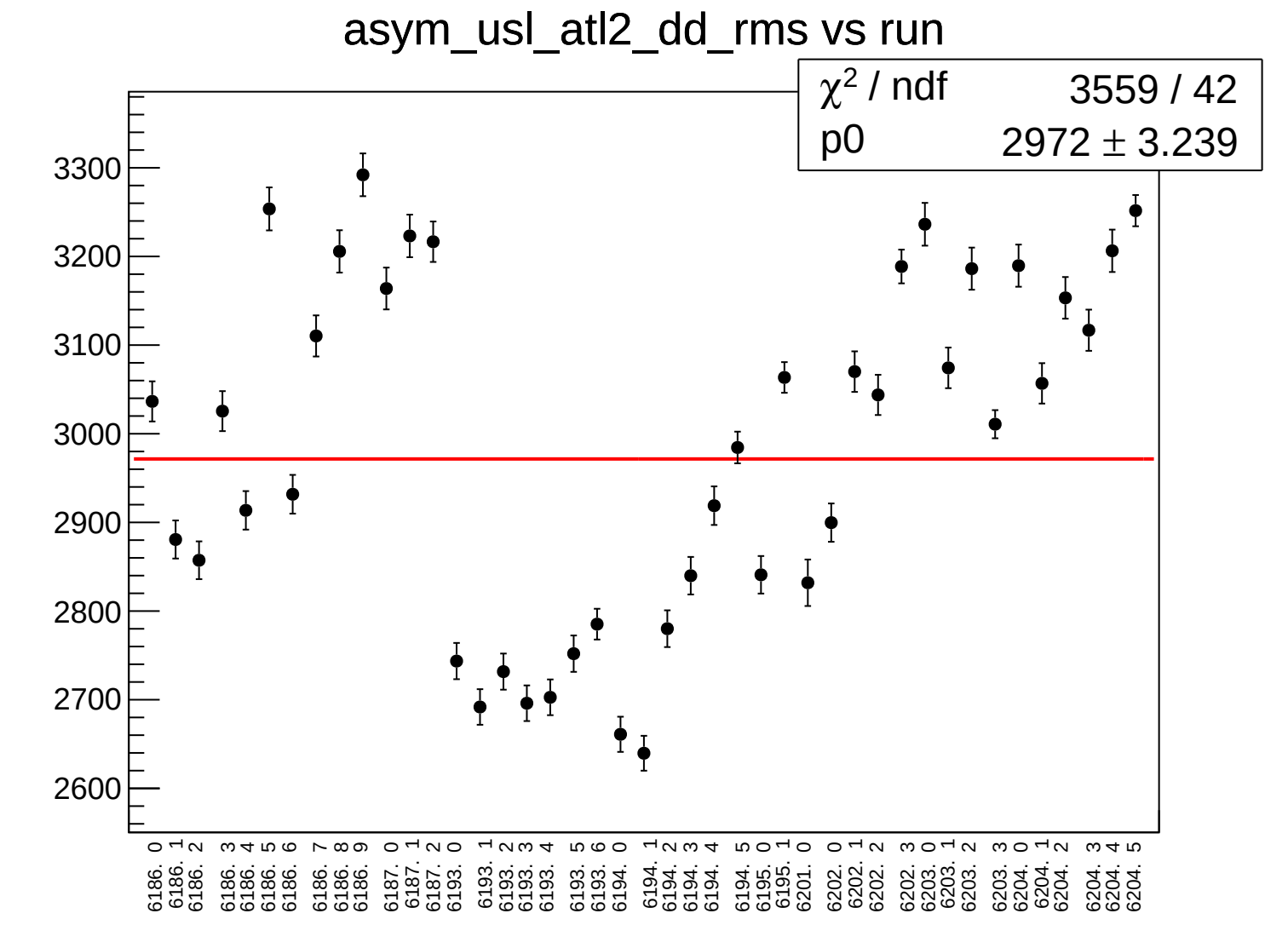

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 61.32 / 42
p0 −4193 ± 4472
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 148
Std Dev 0
3
2
1
0
−1
−2
−3
−4

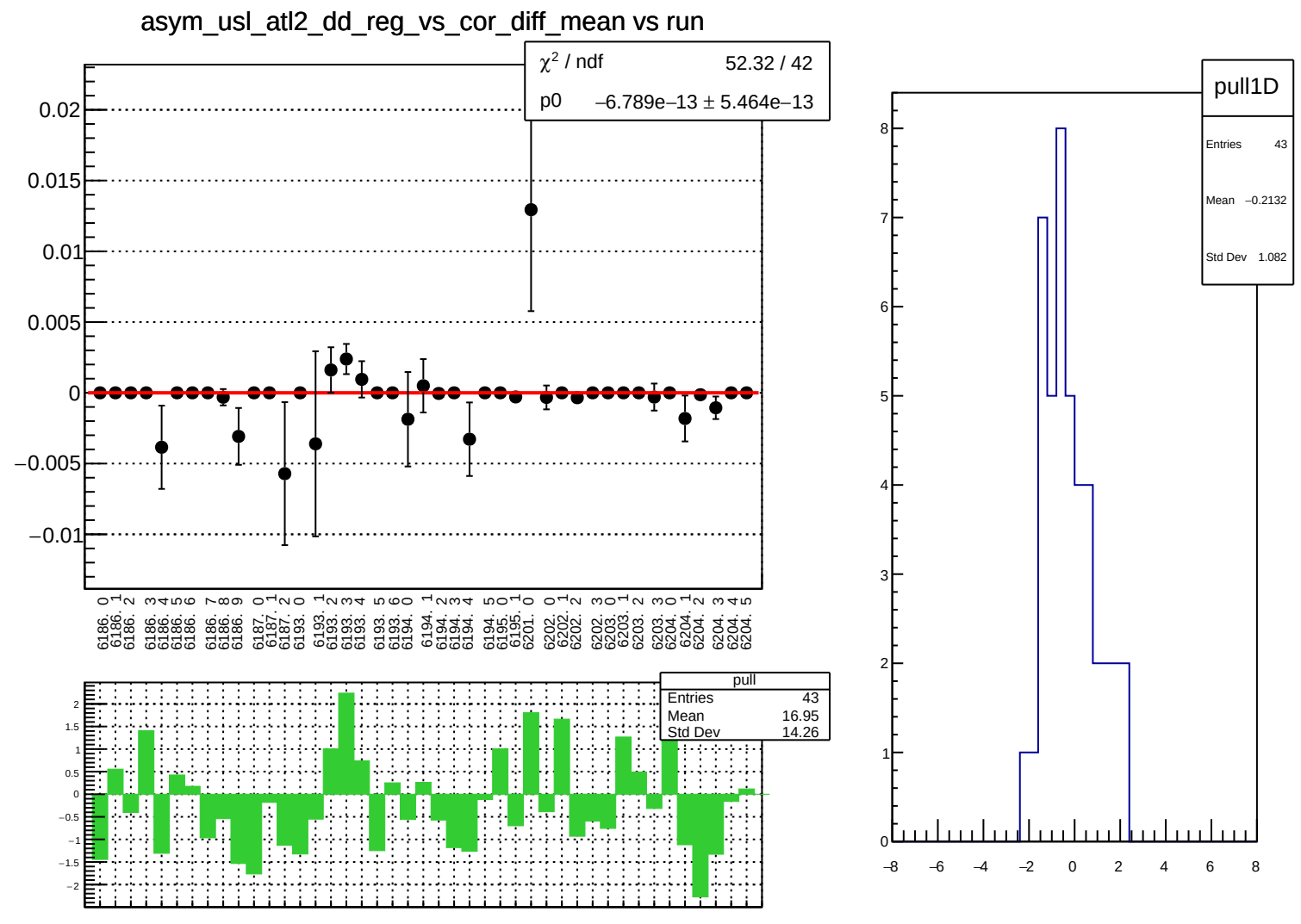

pull1D
Entries 43
Mean −0.00889
Std Dev 1.194
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

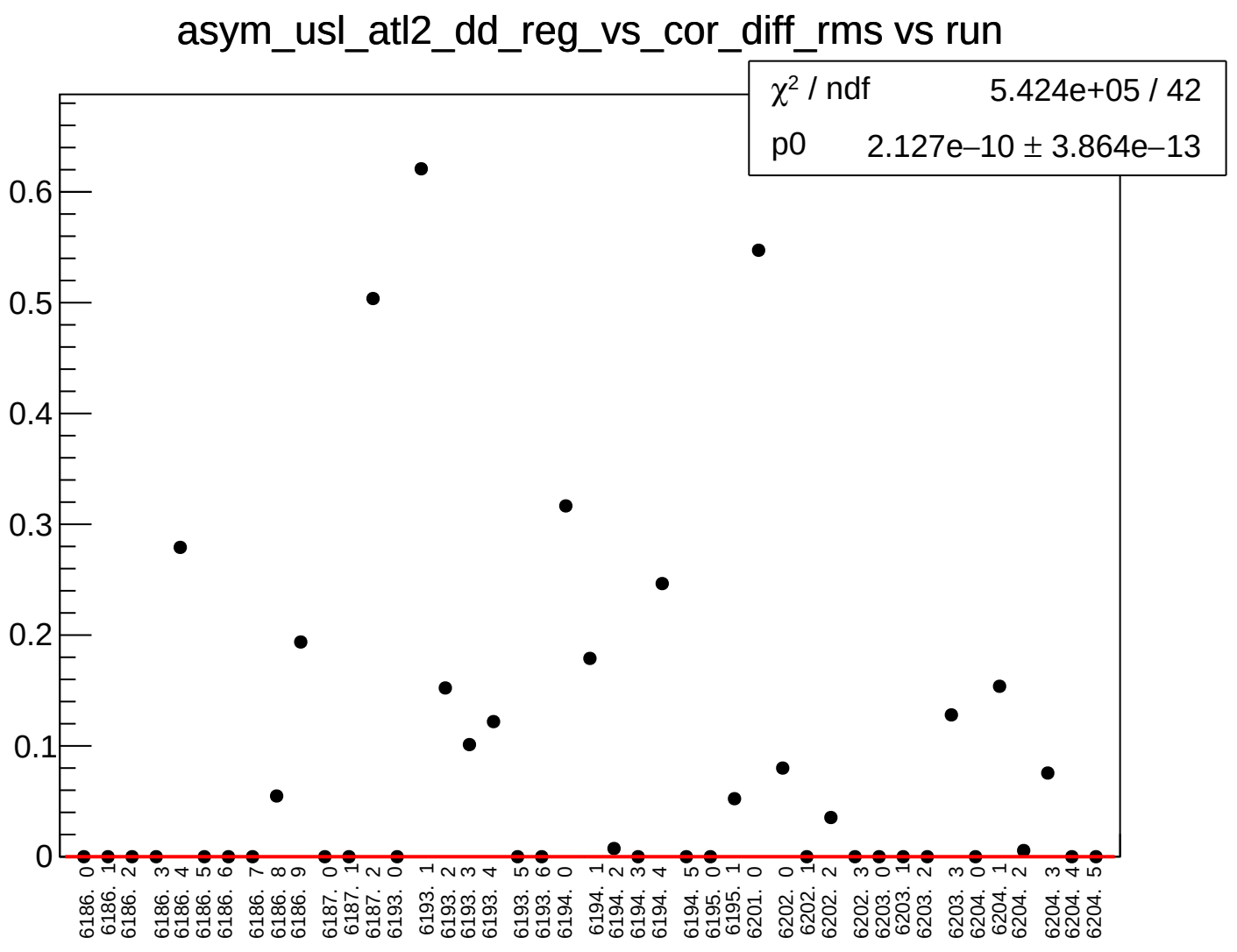

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4033 / 42
p0 2900 ± 3.162
3300
3200
3100
3000
2900
2800
2700
2600
2500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

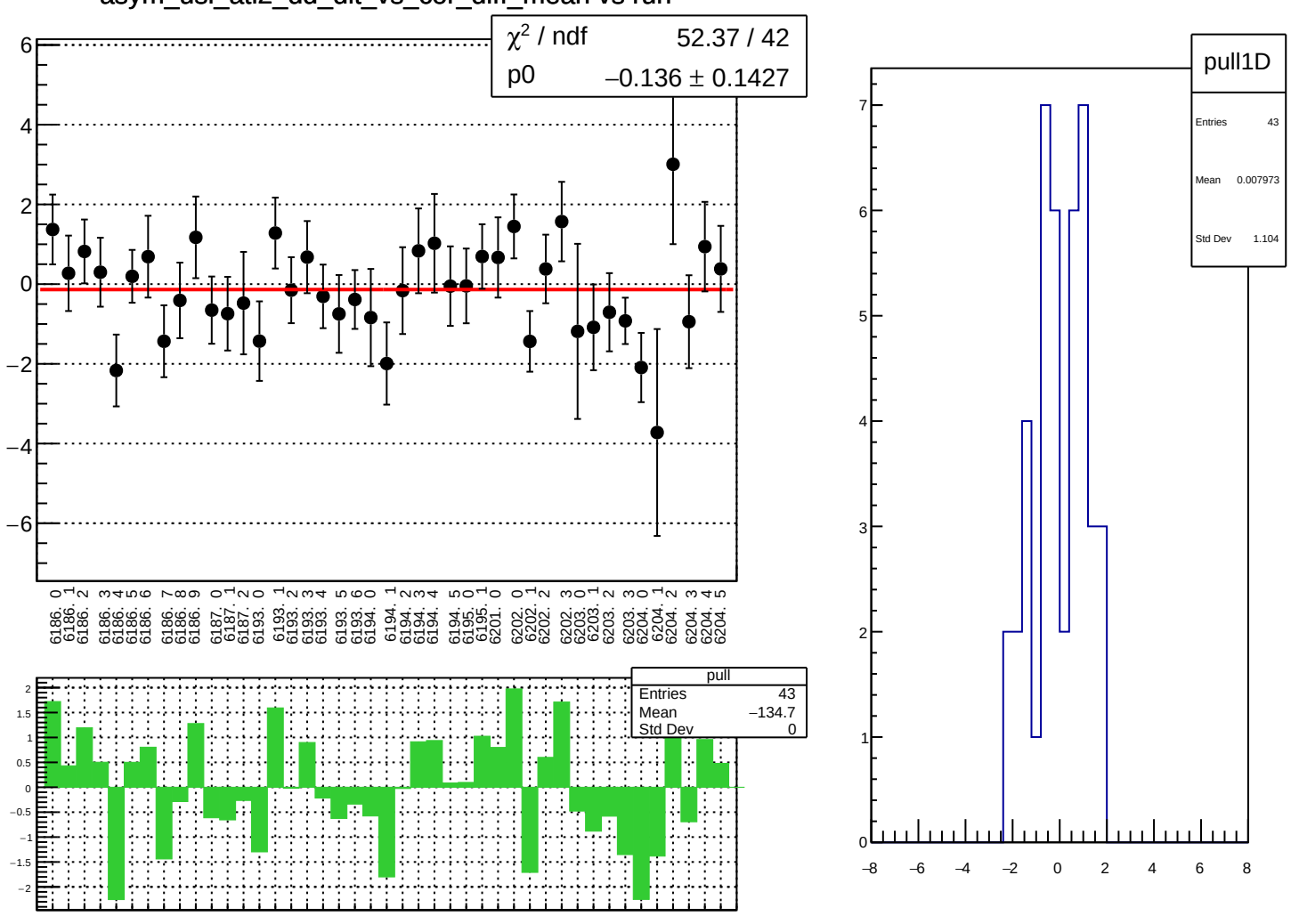

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 59.27 / 42
p0 4294 ± 4581
200
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 957.6
Std Dev 0
4
3
2
1
0
−1
−2
−3

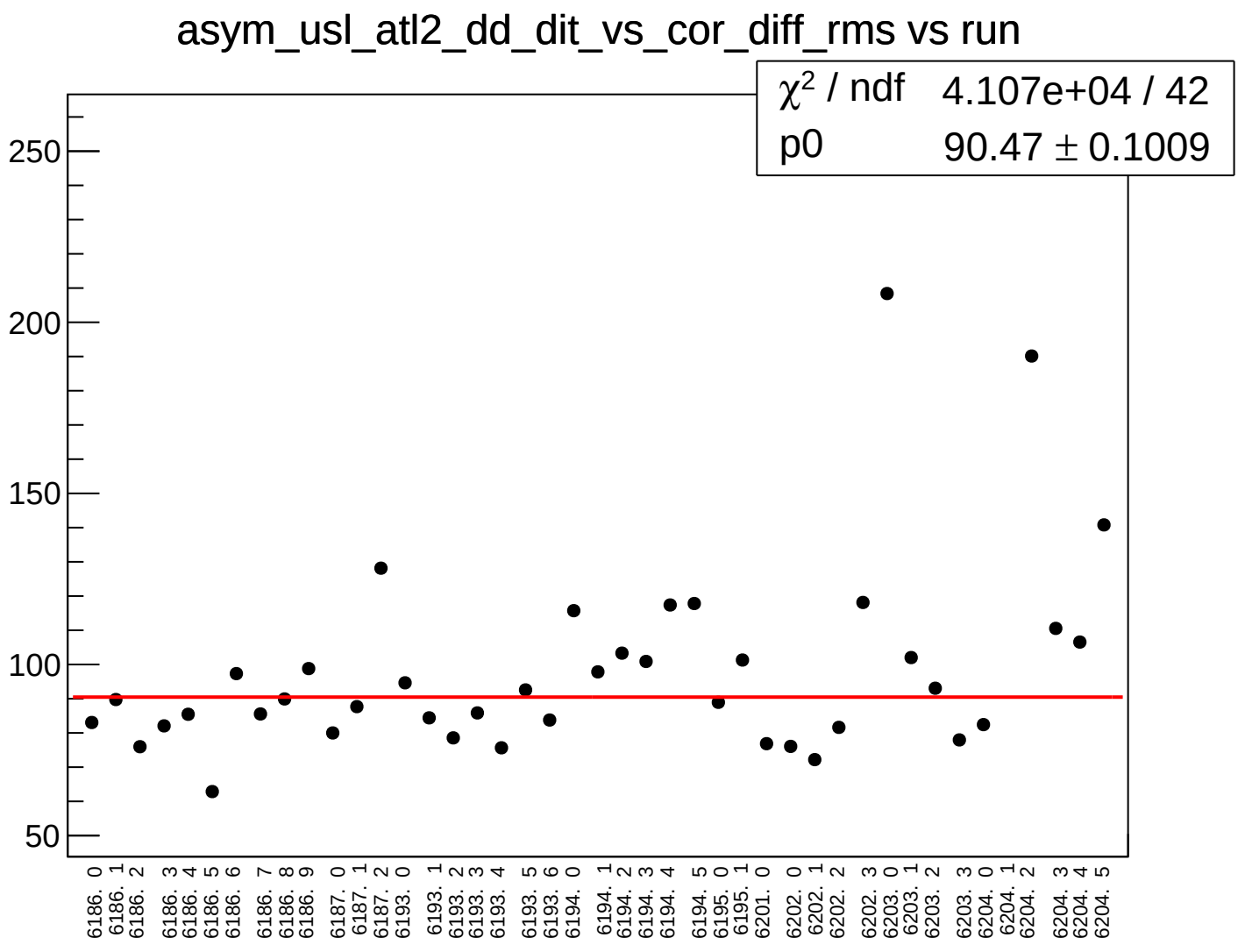

pull1D
Entries 43
Mean 0.001833
Std Dev 1.174
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

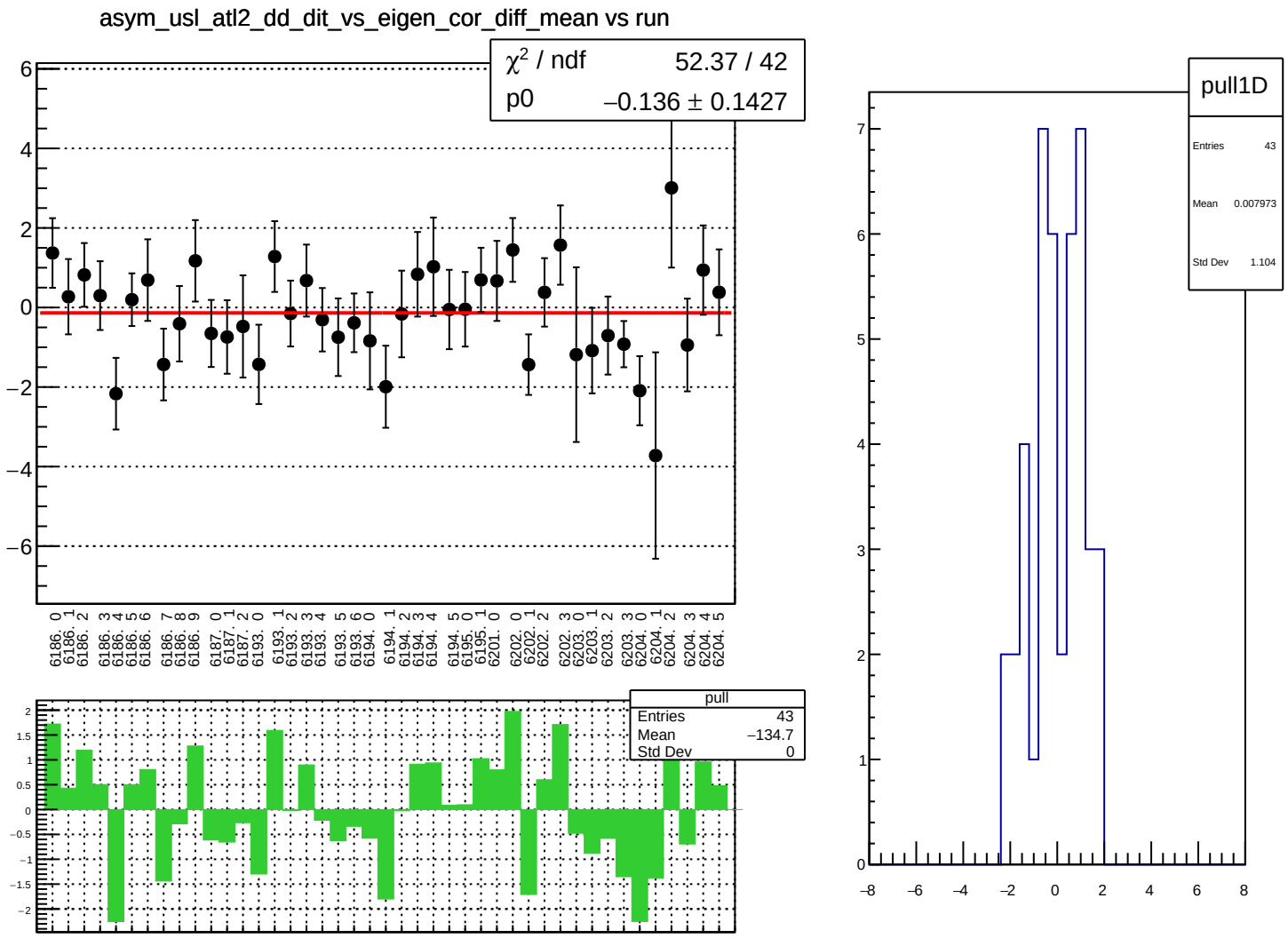

asym_usl_atl2_dd_rms vs run
χ² / ndf 3559 / 42
p0 2972 ± 3.239
3300
3200
3100
3000
2900
2800
2700
2600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

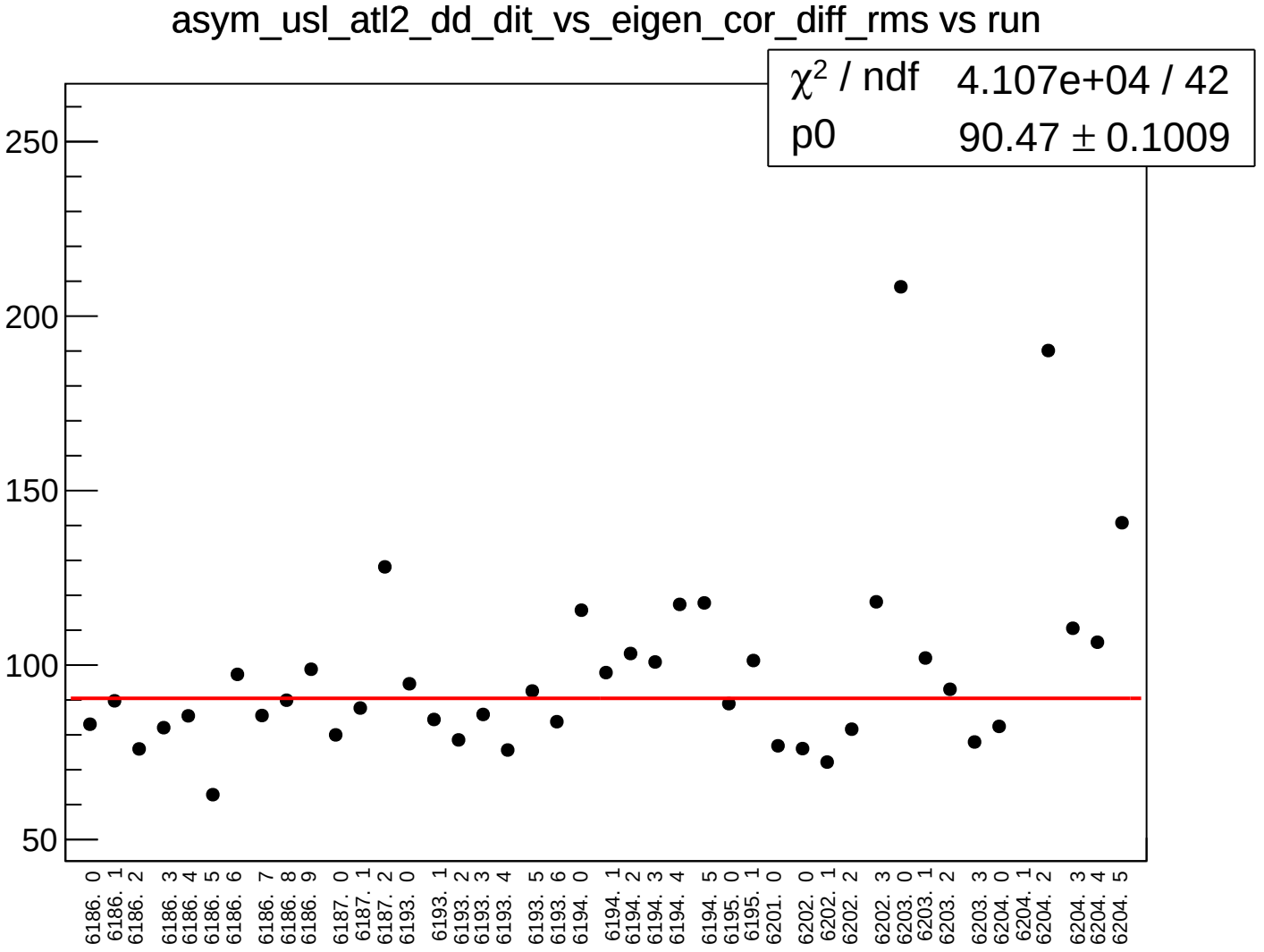

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 52.32 / 42
p0 −6.789e−13 ± 5.464e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 16.95
Std Dev 14.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.2132
Std Dev 1.082
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

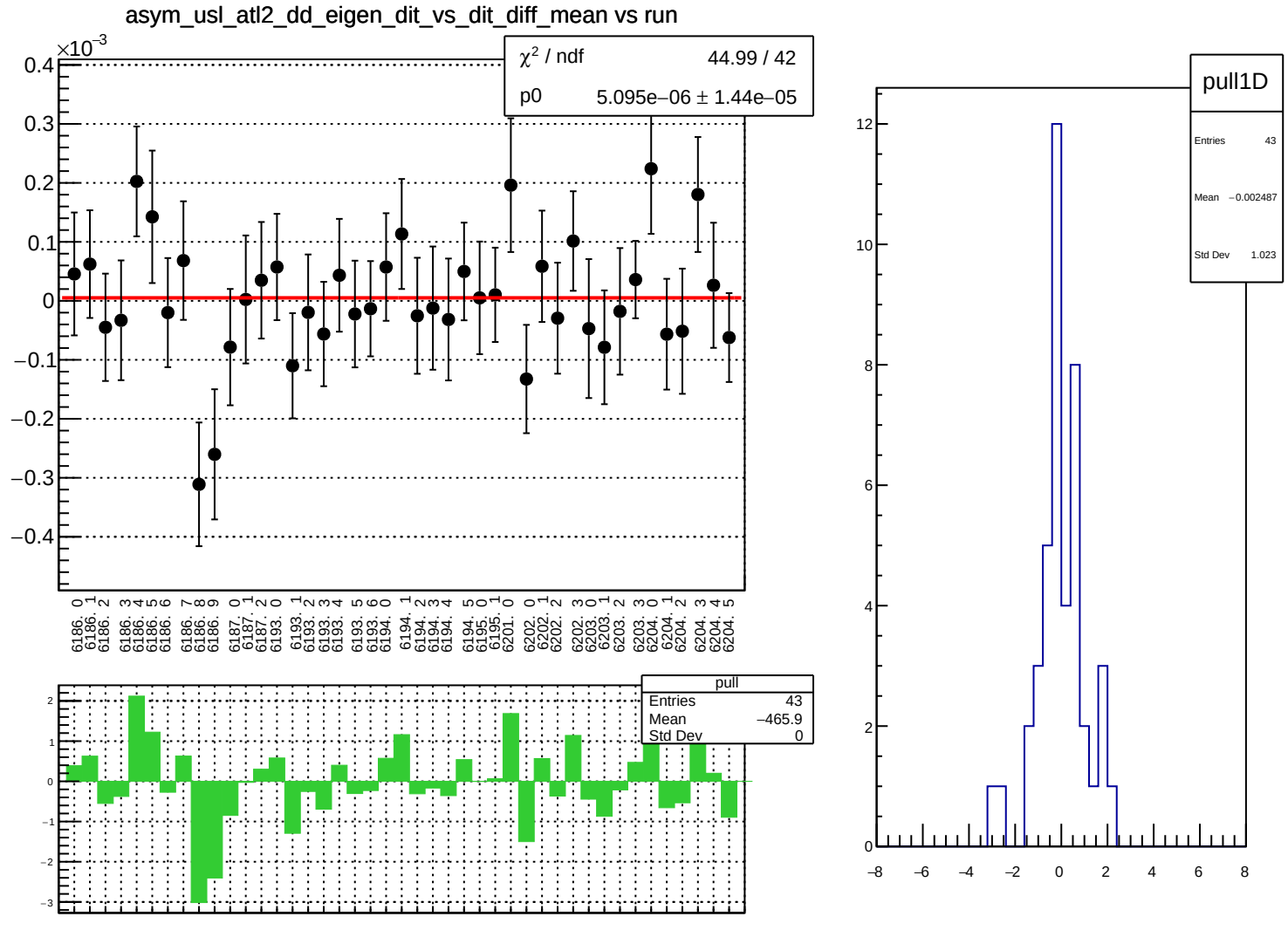

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.424e+05 / 42
p0 2.127e−10 ± 3.864e−13
0
0.1
0.2
0.3
0.4
0.5
0.6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

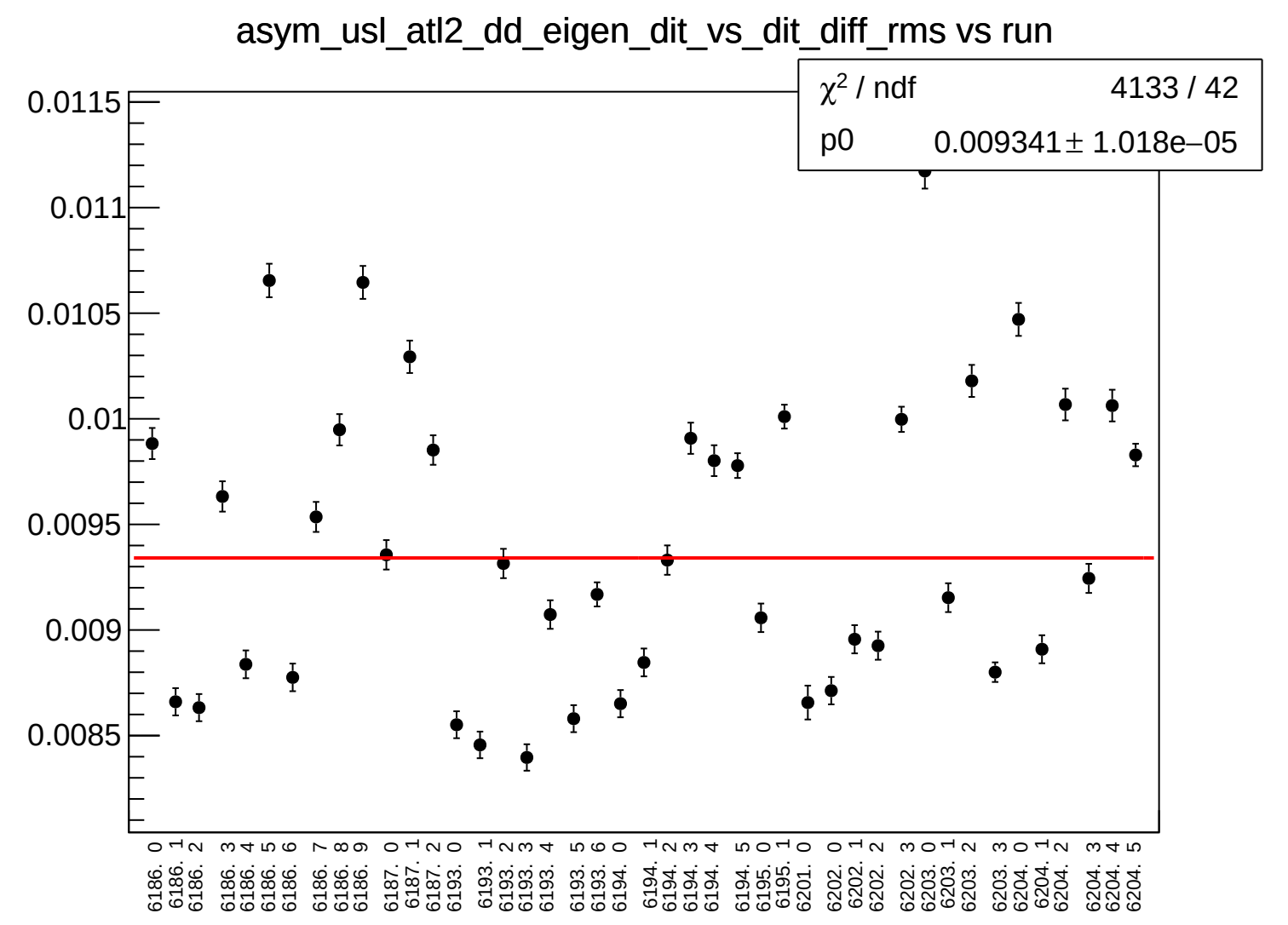

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 52.37 / 42
p0 −0.136 ± 0.1427
pull
Entries 43
Mean −134.7
Std Dev 0
pull1D
Entries 43
Mean 0.007973
Std Dev 1.104

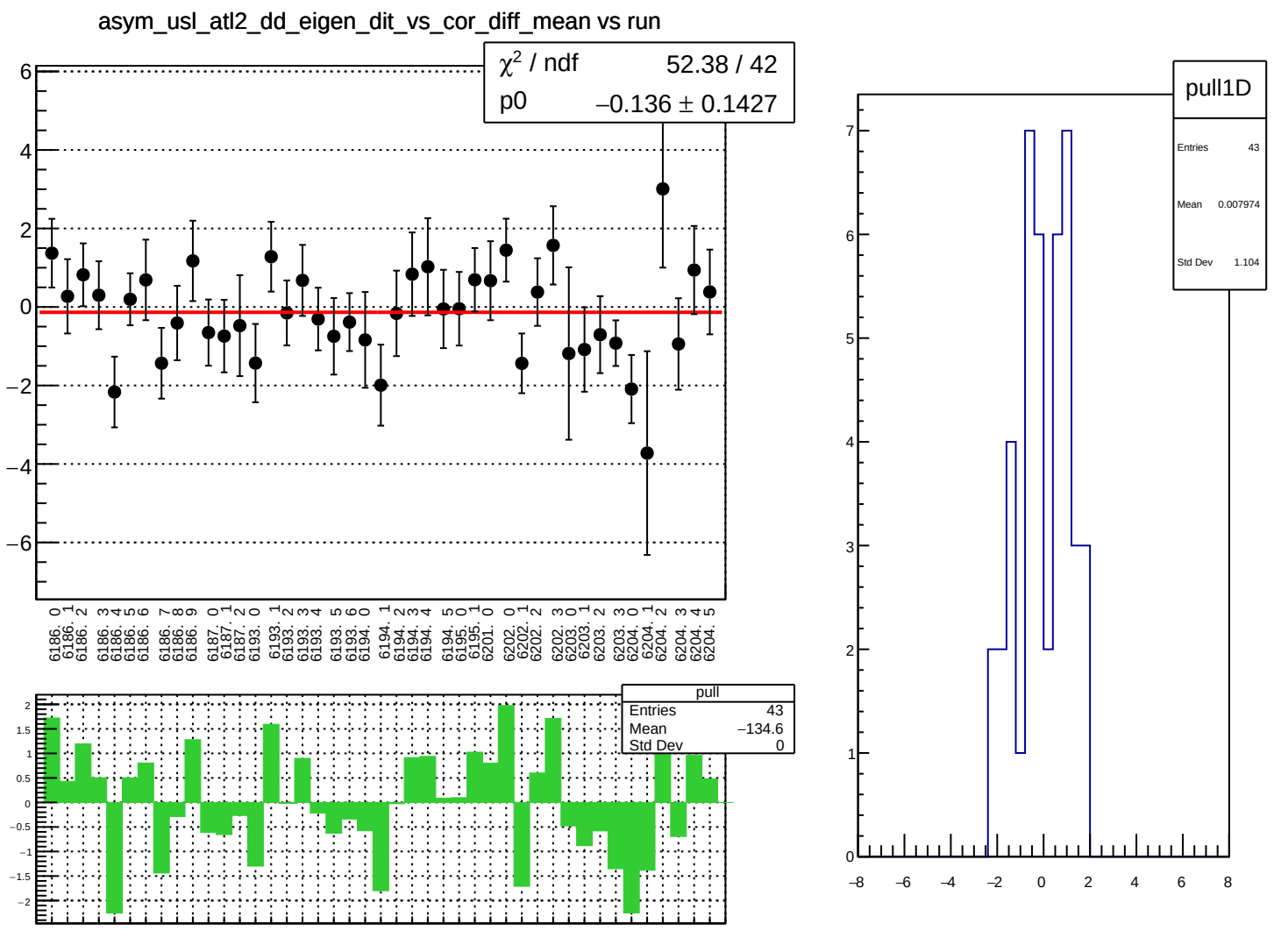

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.107e+04 / 42
p0 90.47 ± 0.1009
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

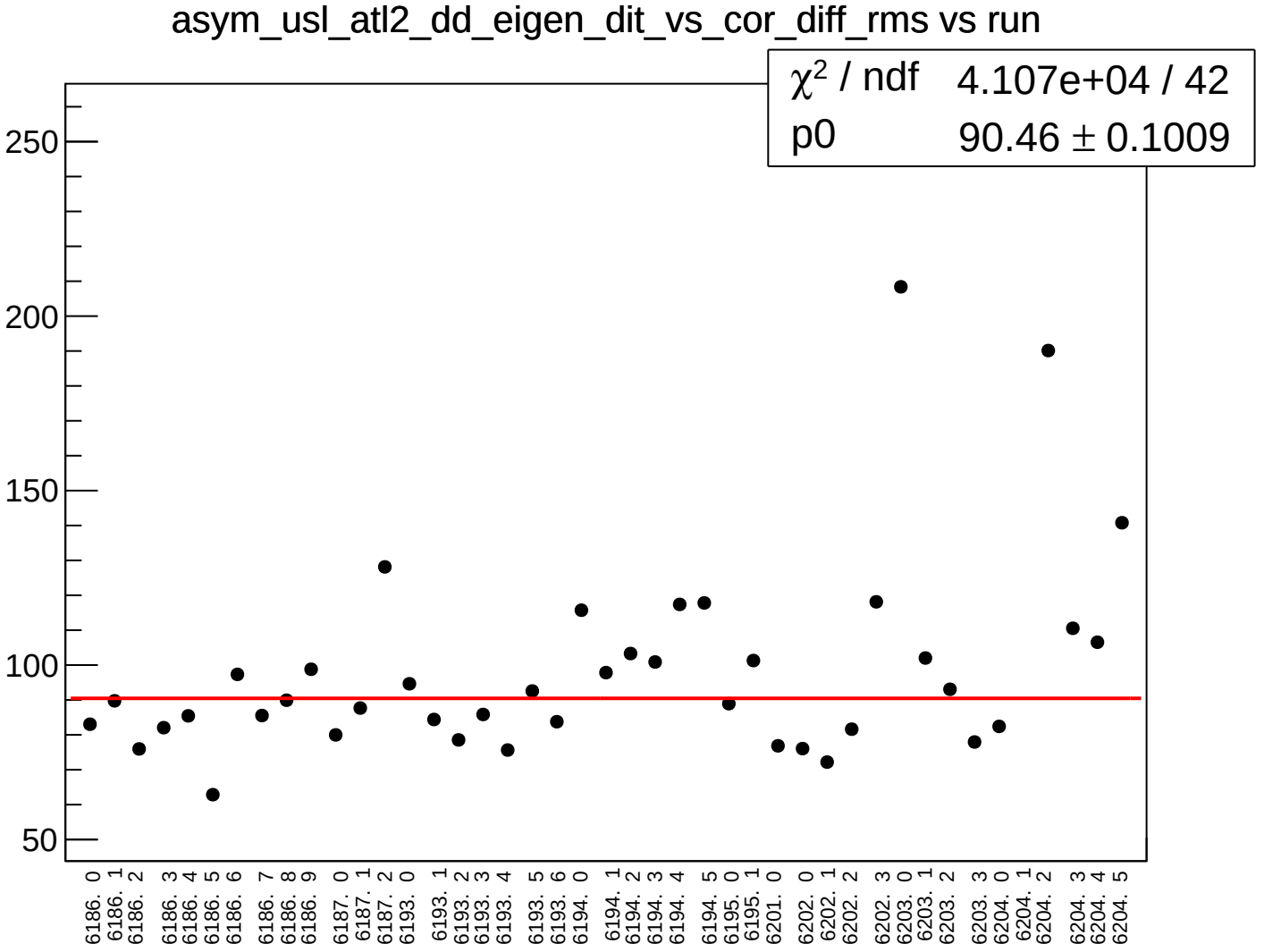

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.37 / 42
p0 −0.136 ± 0.1427
pull
Entries 43
Mean −134.7
Std Dev 0
pull1D
Entries 43
Mean 0.007973
Std Dev 1.104

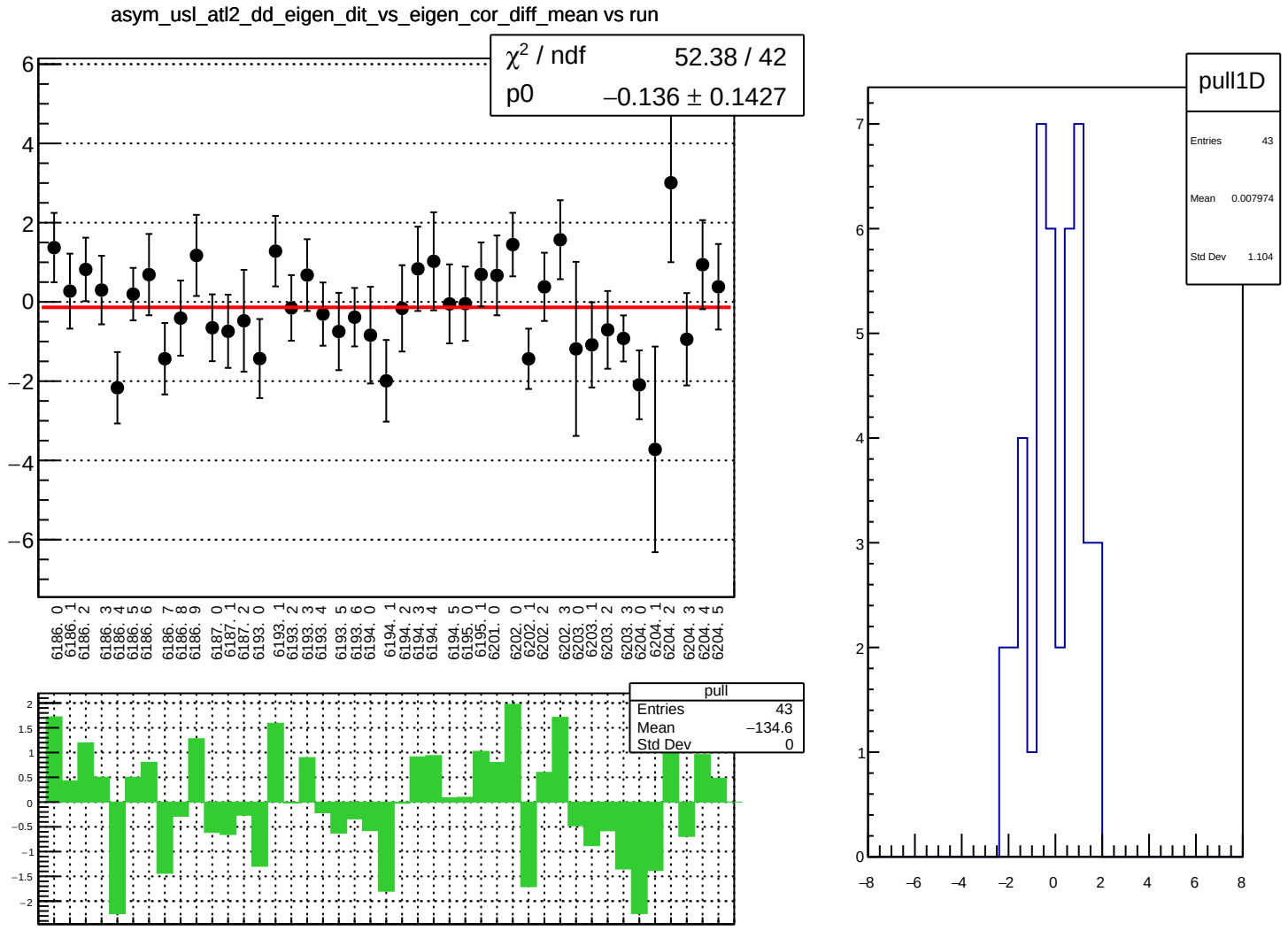

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.107e+04 / 42
p0 90.47 ± 0.1009
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

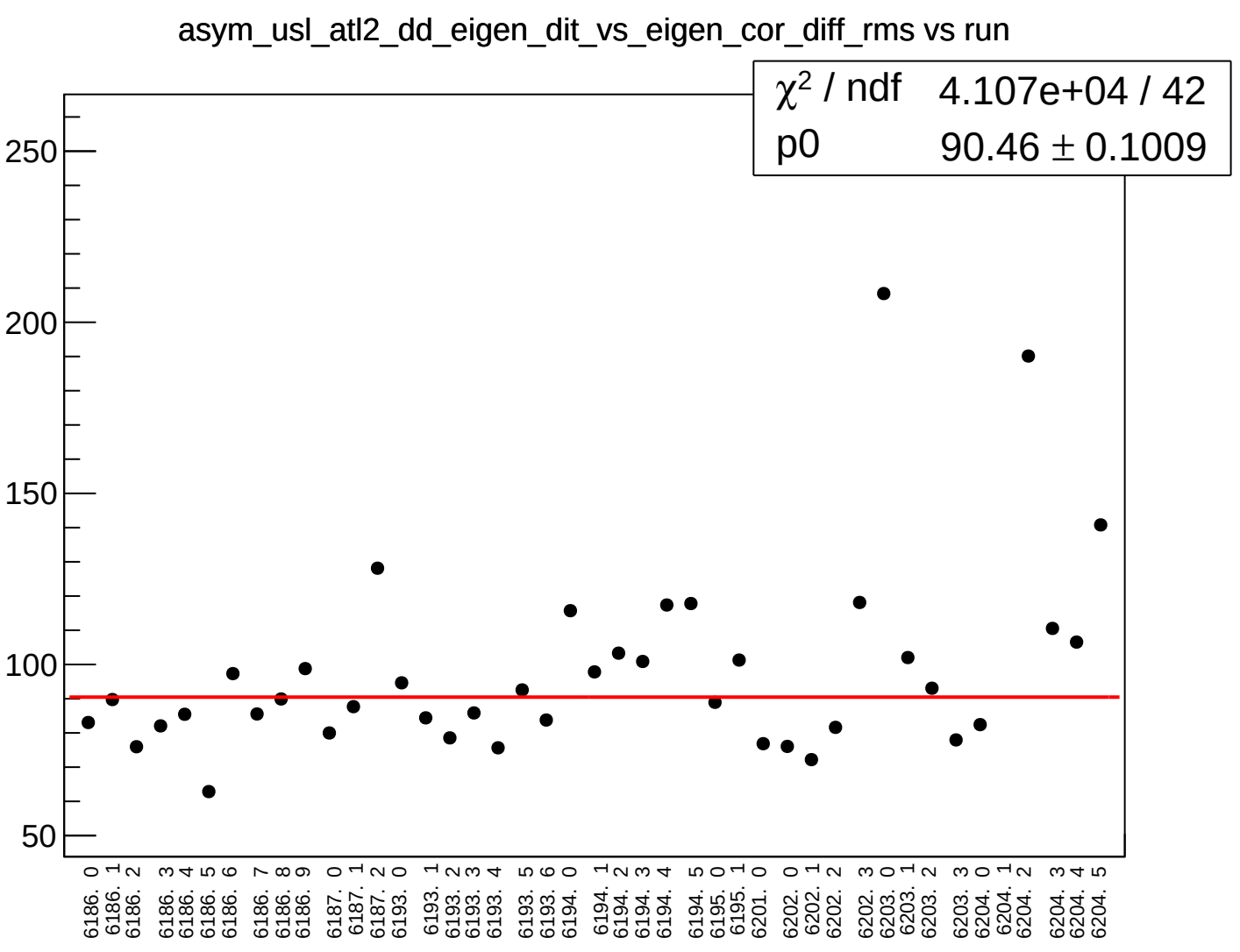

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 44.99 / 42
p0 5.095e−06 ± 1.44e−05
pull
Entries 43
Mean −465.9
Std Dev 0
pull1D
Entries 43
Mean −0.002487
Std Dev 1.023

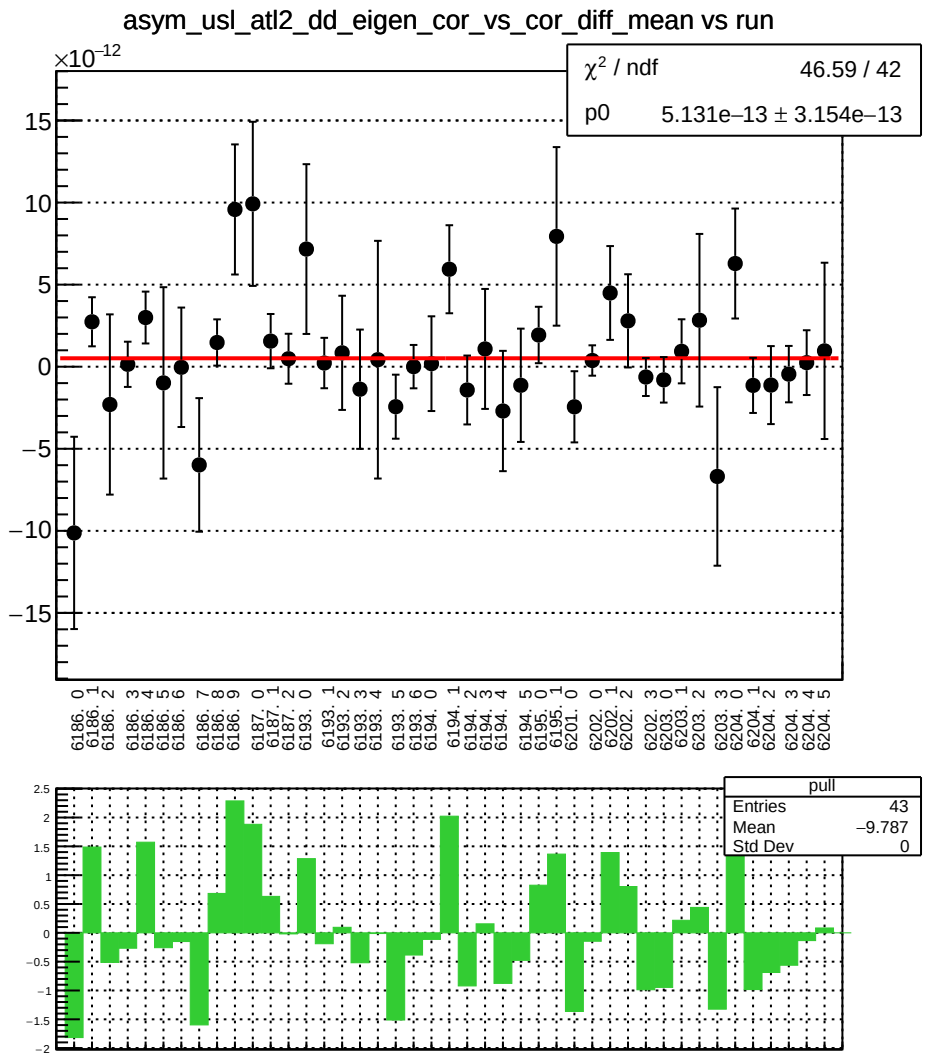

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4133 / 42
p0 0.009341 ± 1.018e−05
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

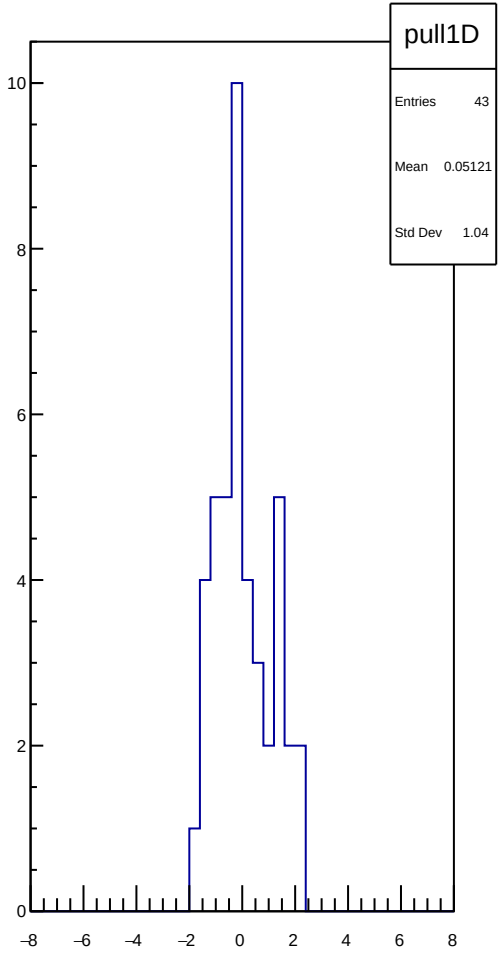

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.38 / 42
p0 −0.136 ± 0.1427
pull
Entries 43
Mean −134.6
Std Dev 0
pull1D
Entries 43
Mean 0.007974
Std Dev 1.104

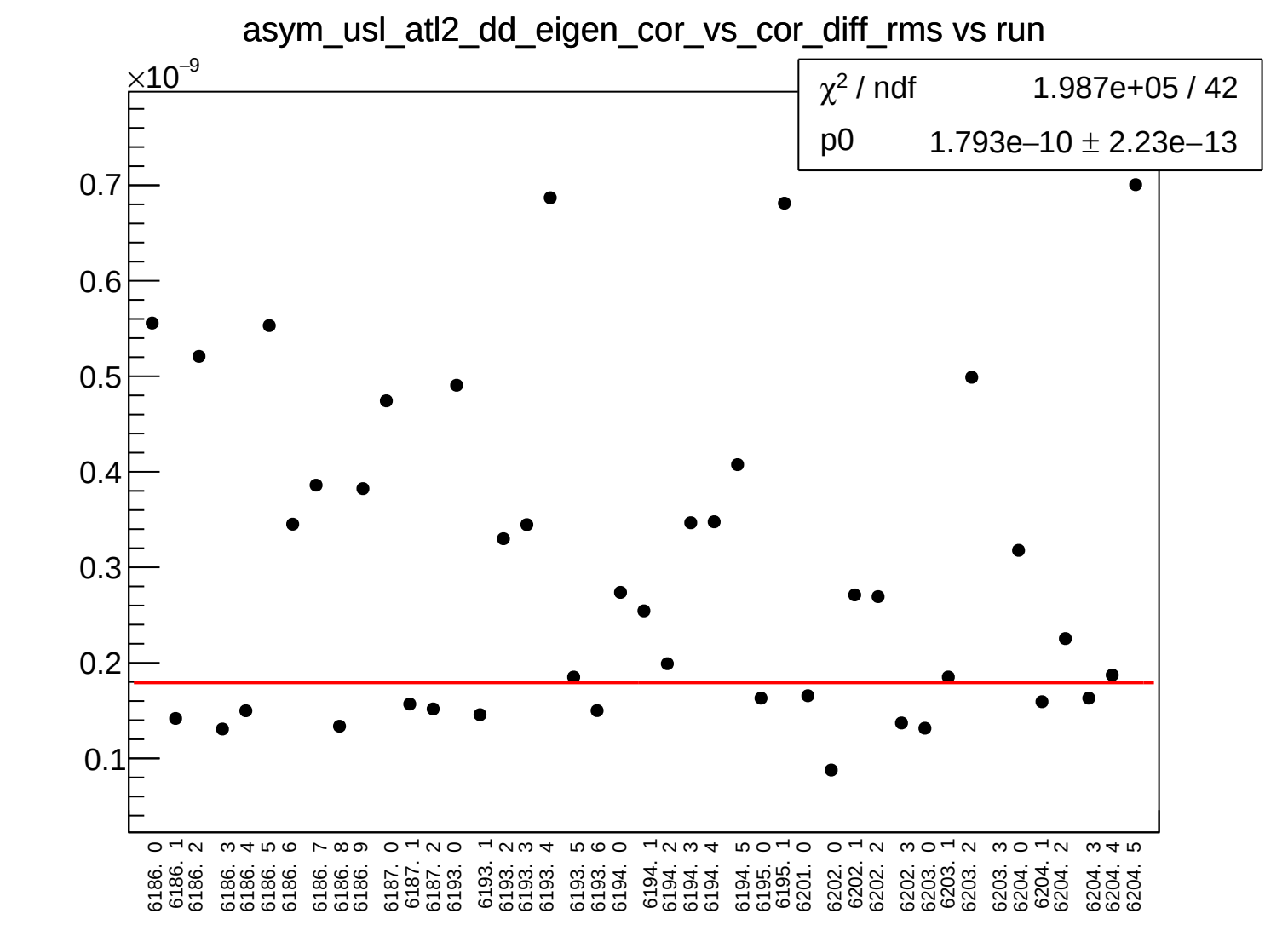

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.107e+04 / 42
p0 90.46 ± 0.1009
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

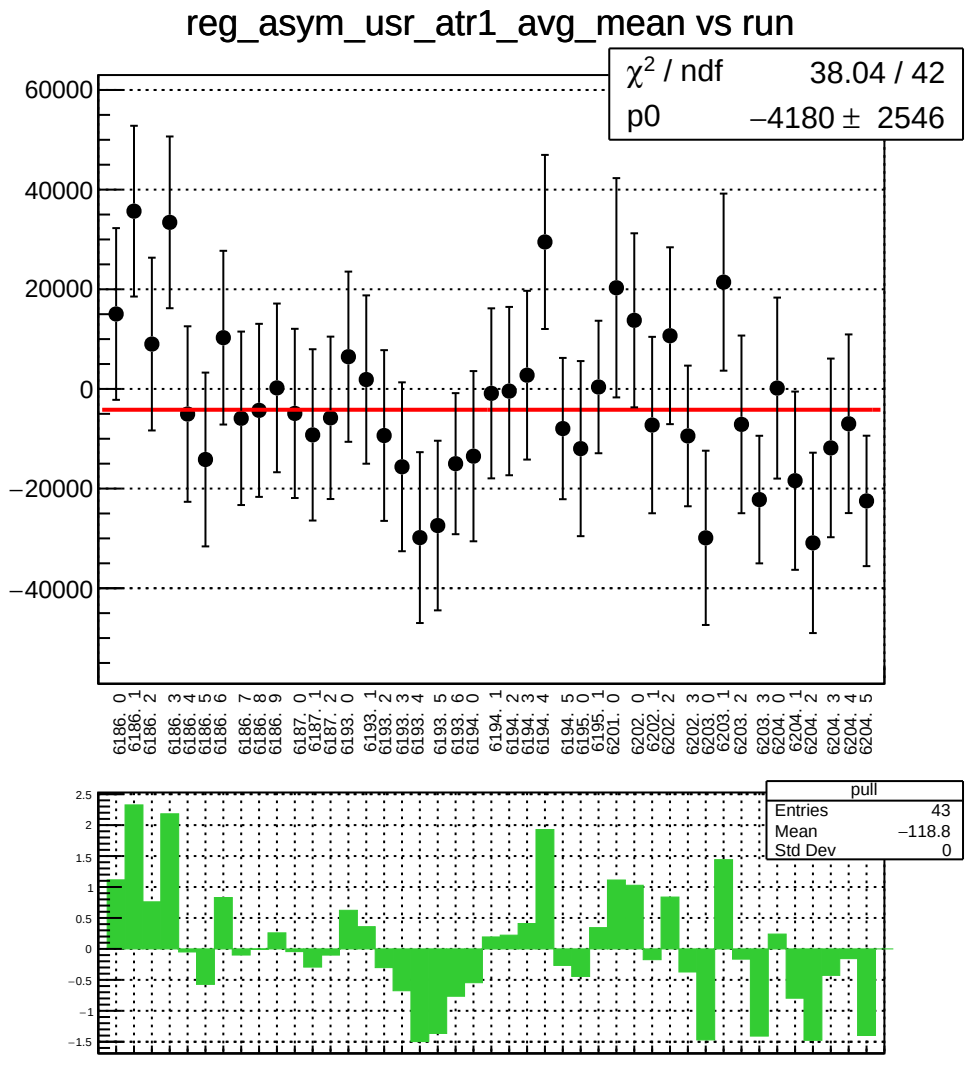

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.38 / 42
p0 −0.136 ± 0.1427
pull
Entries 43
Mean −134.6
Std Dev 0
pull1D
Entries 43
Mean 0.007974
Std Dev 1.104

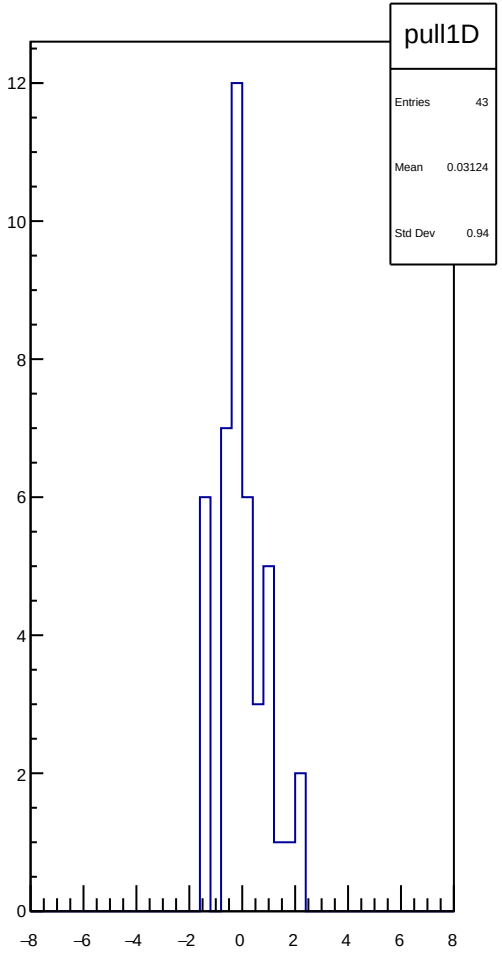

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.107e+04 / 42
p0 90.46 ± 0.1009
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

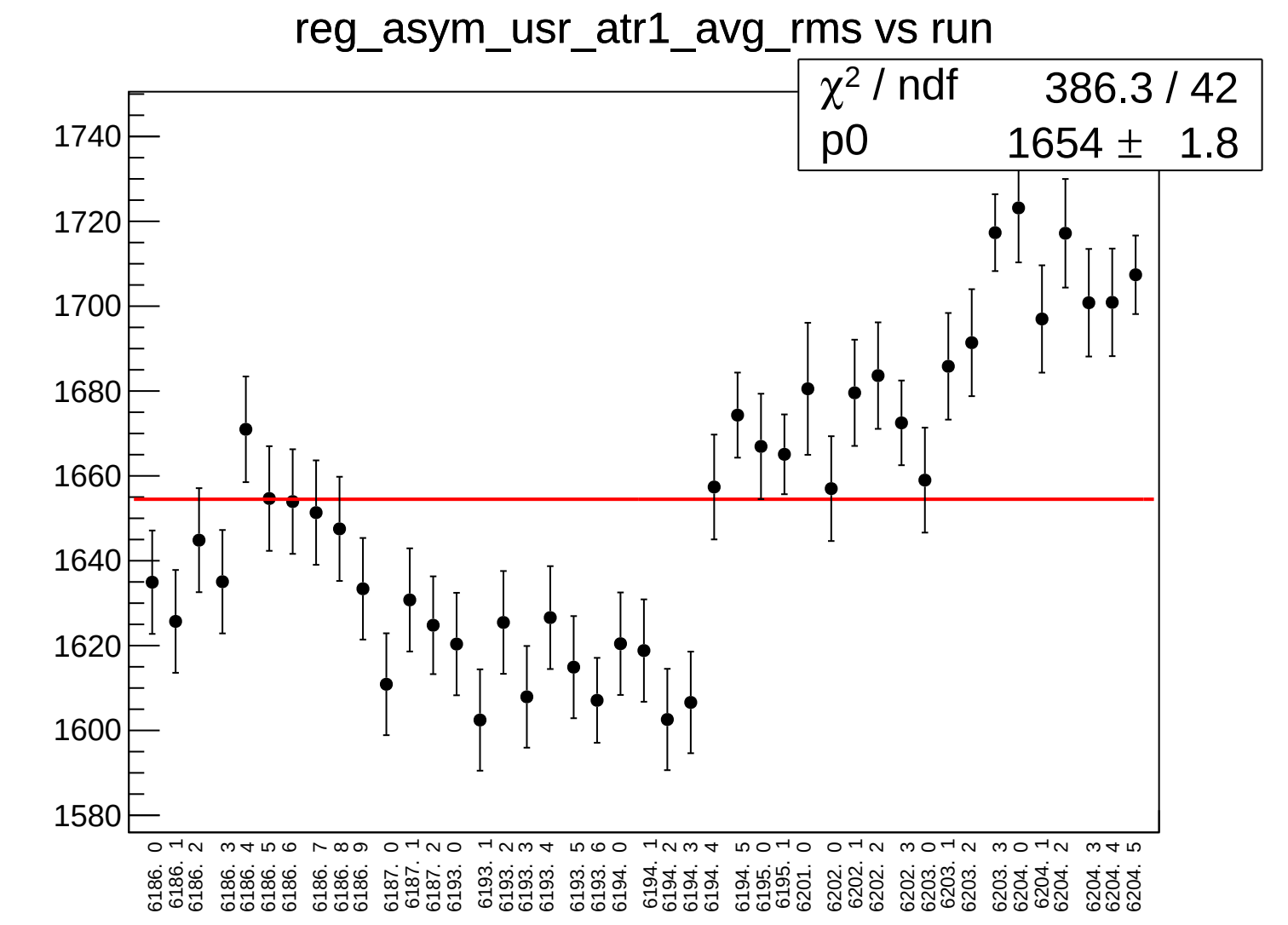

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 46.59 / 42
p0 5.131e−13 ± 3.154e−13
15
10
5
0
−5
−10
−15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −9.787
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

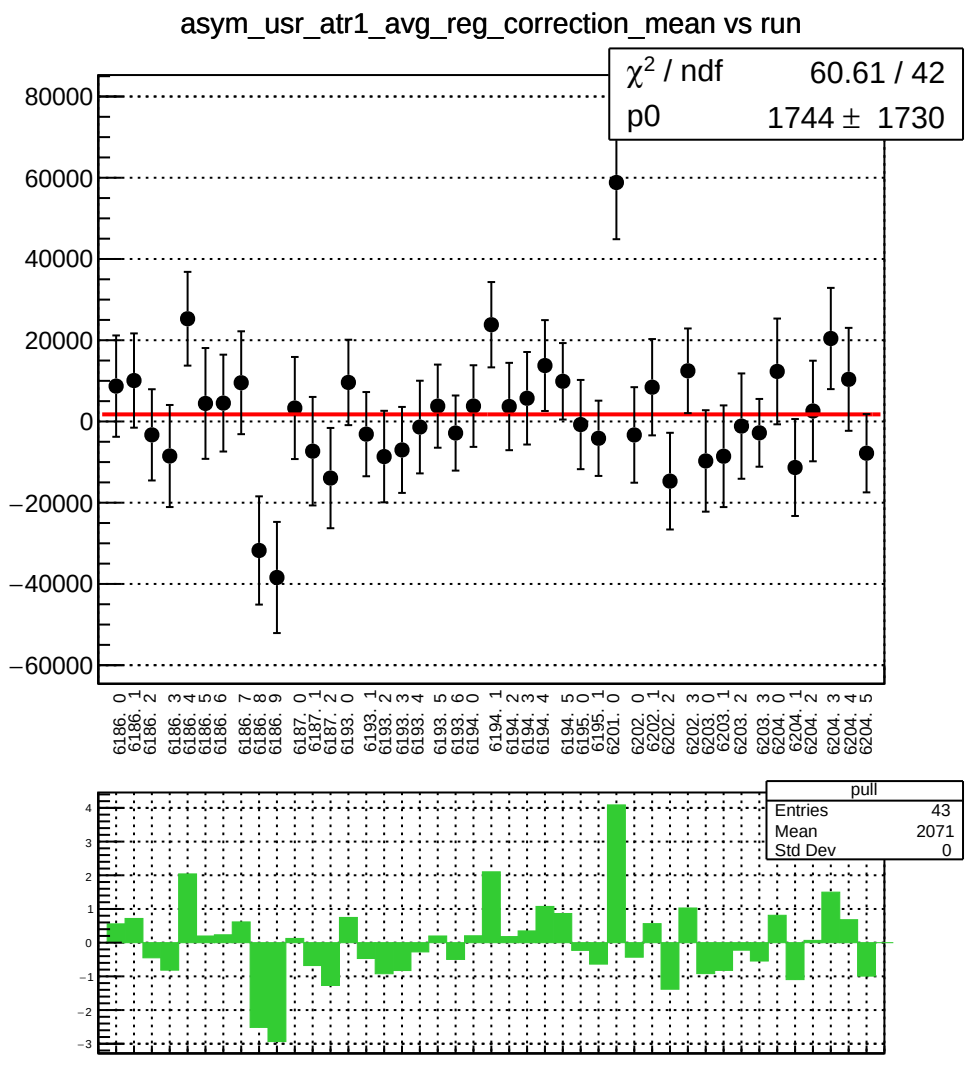

pull1D
Entries 43
Mean 0.05121
Std Dev 1.04
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

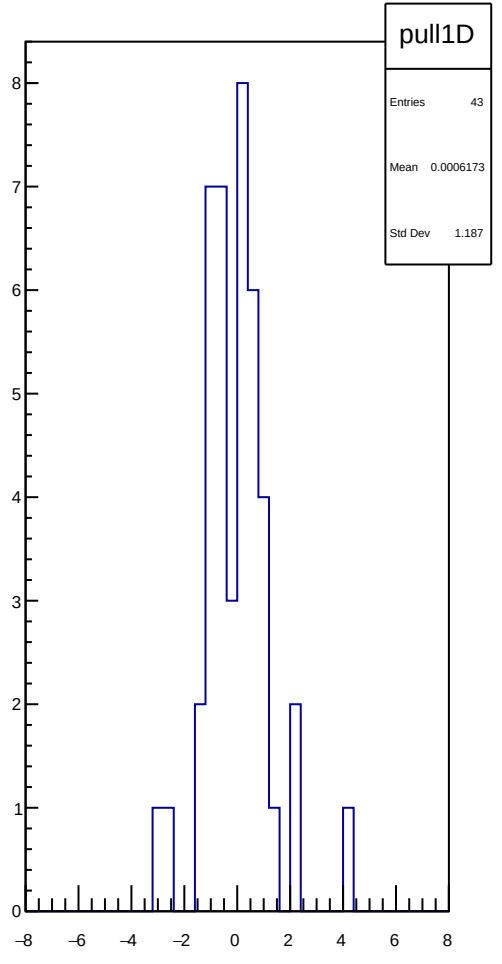

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.987e+05 / 42
p0 1.793e−10 ± 2.23e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

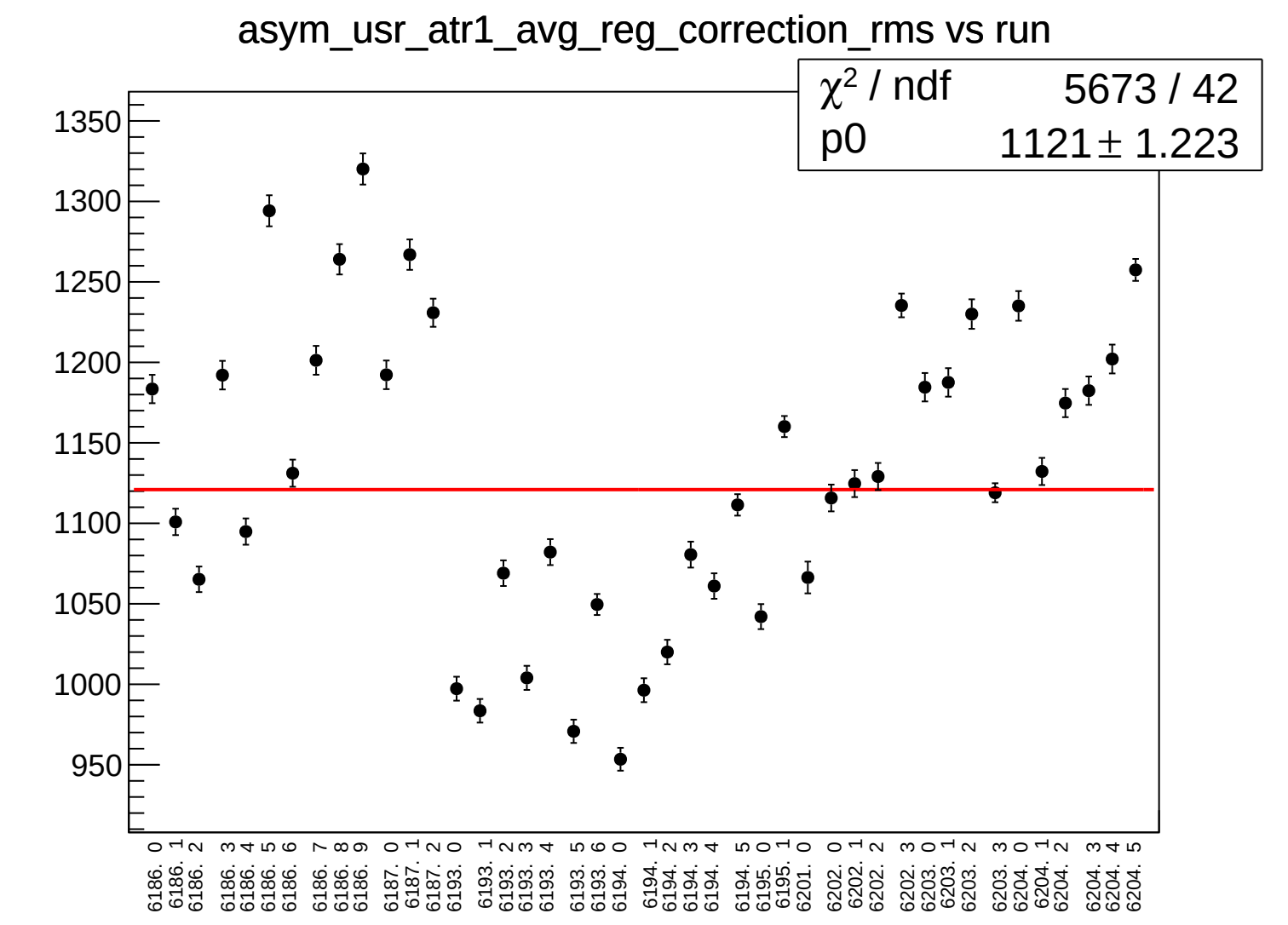

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 38.04 / 42
p0 −4180 ± 2546
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −118.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

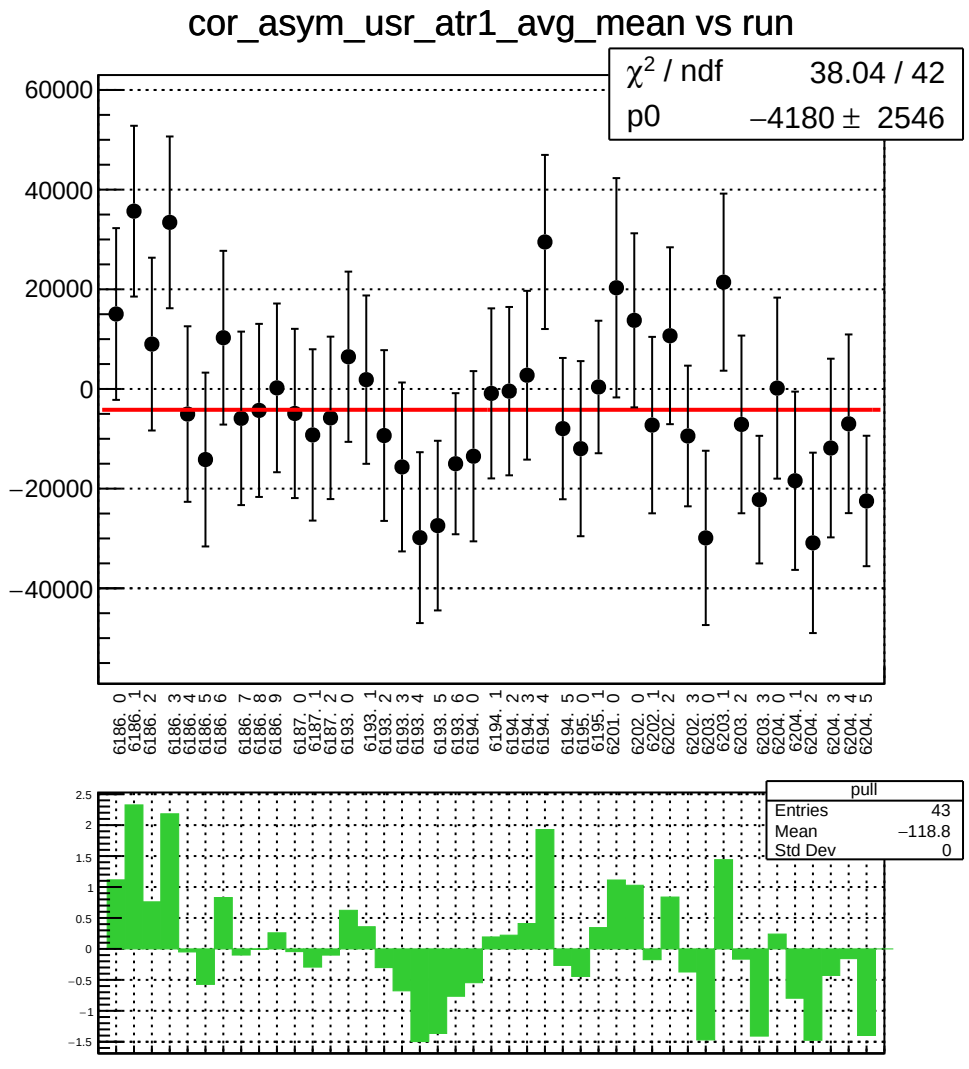

pull1D
Entries 43
Mean 0.03124
Std Dev 0.94
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

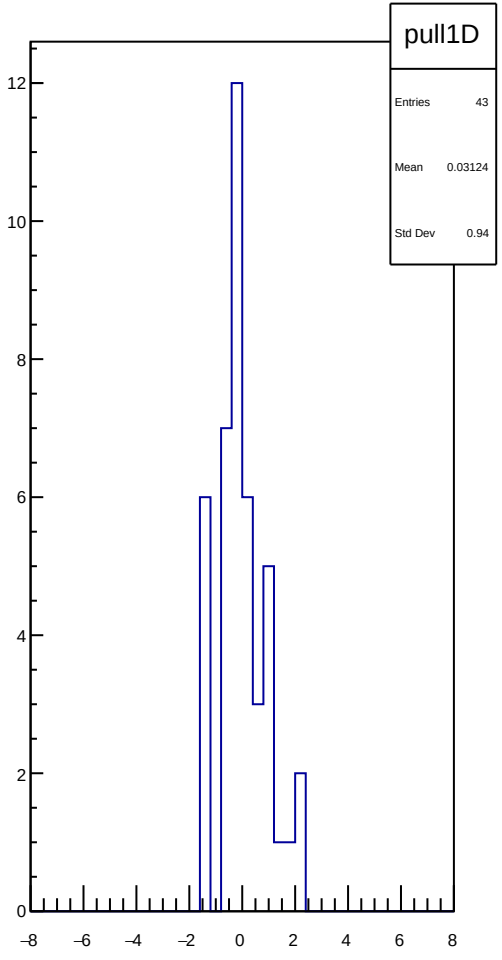

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 386.3 / 42
p0 1654 ± 1.8
1740
1720
1700
1680
1660
1640
1620
1600
1580
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

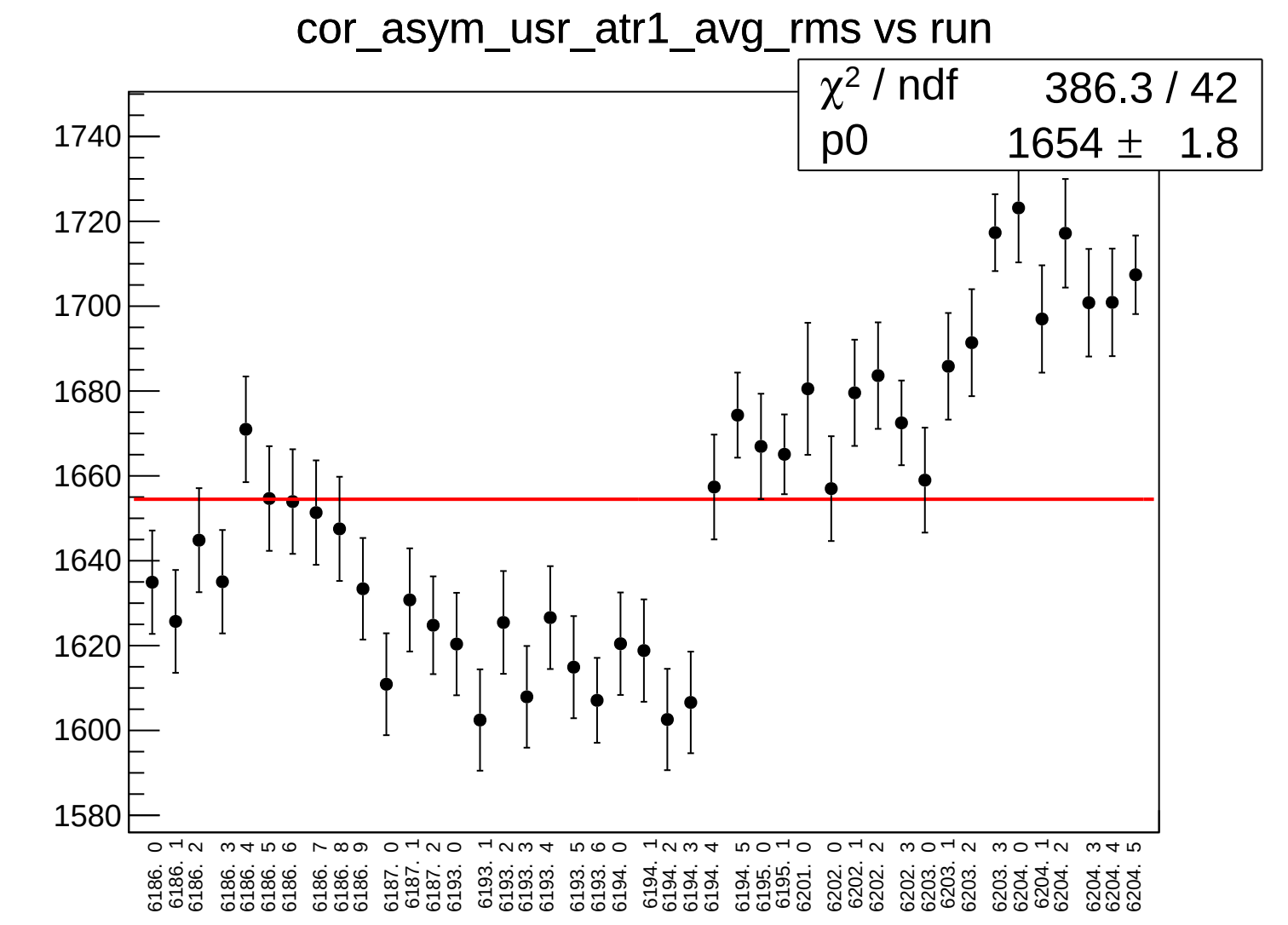

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 60.61 / 42
p0 1744 ± 1730
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2071
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.0006173
Std Dev 1.187
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 5673 / 42
p0 1121 ± 1.223
1350
1300
1250
1200
1150
1100
1050
1000
950
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 38.04 / 42
p0 −4180 ± 2546
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −118.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 43
Mean 0.03124
Std Dev 0.94
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 386.3 / 42
p0 1654 ± 1.8
1740
1720
1700
1680
1660
1640
1620
1600
1580
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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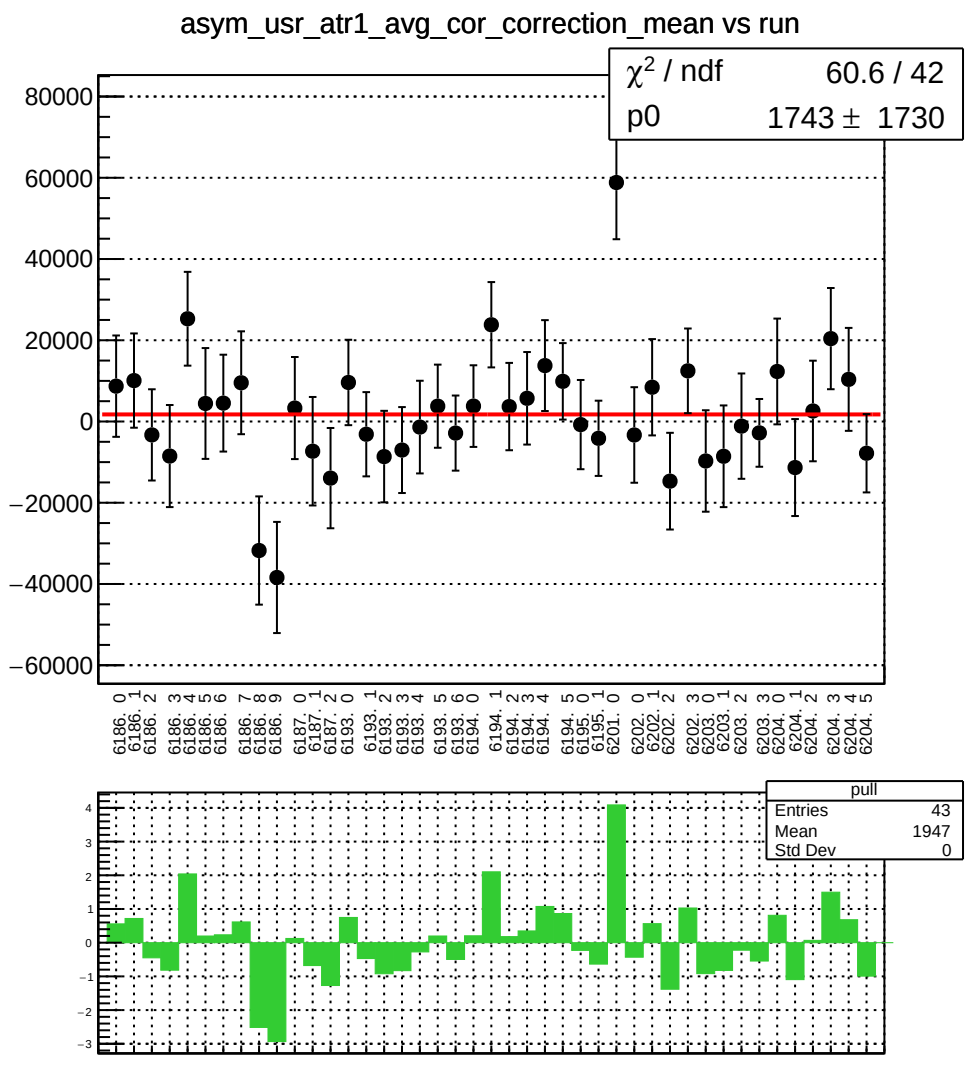
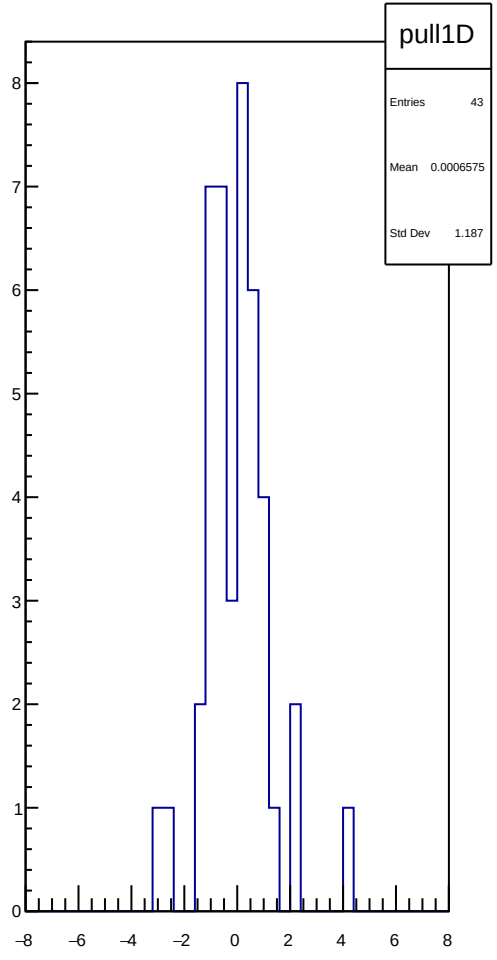
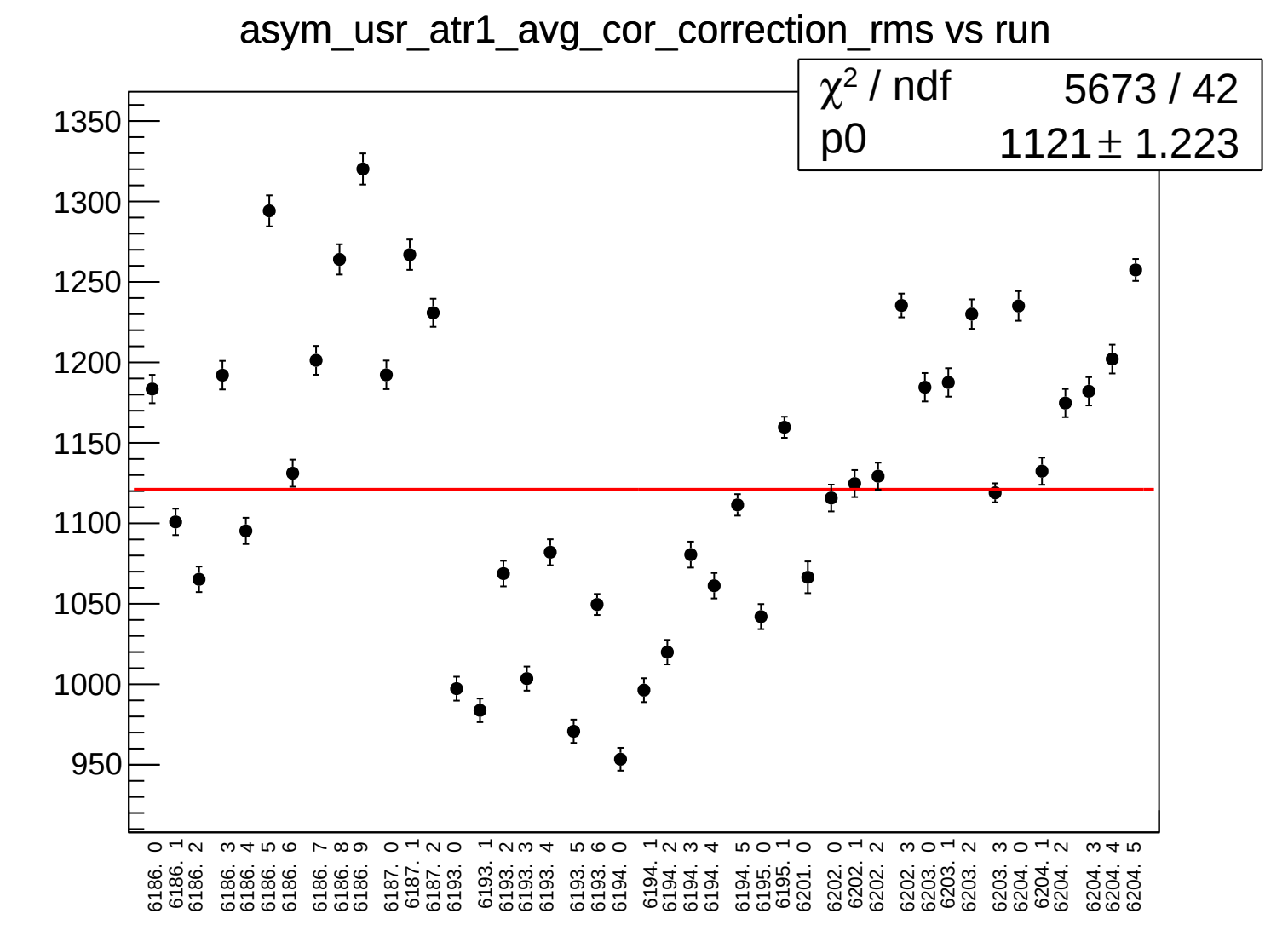
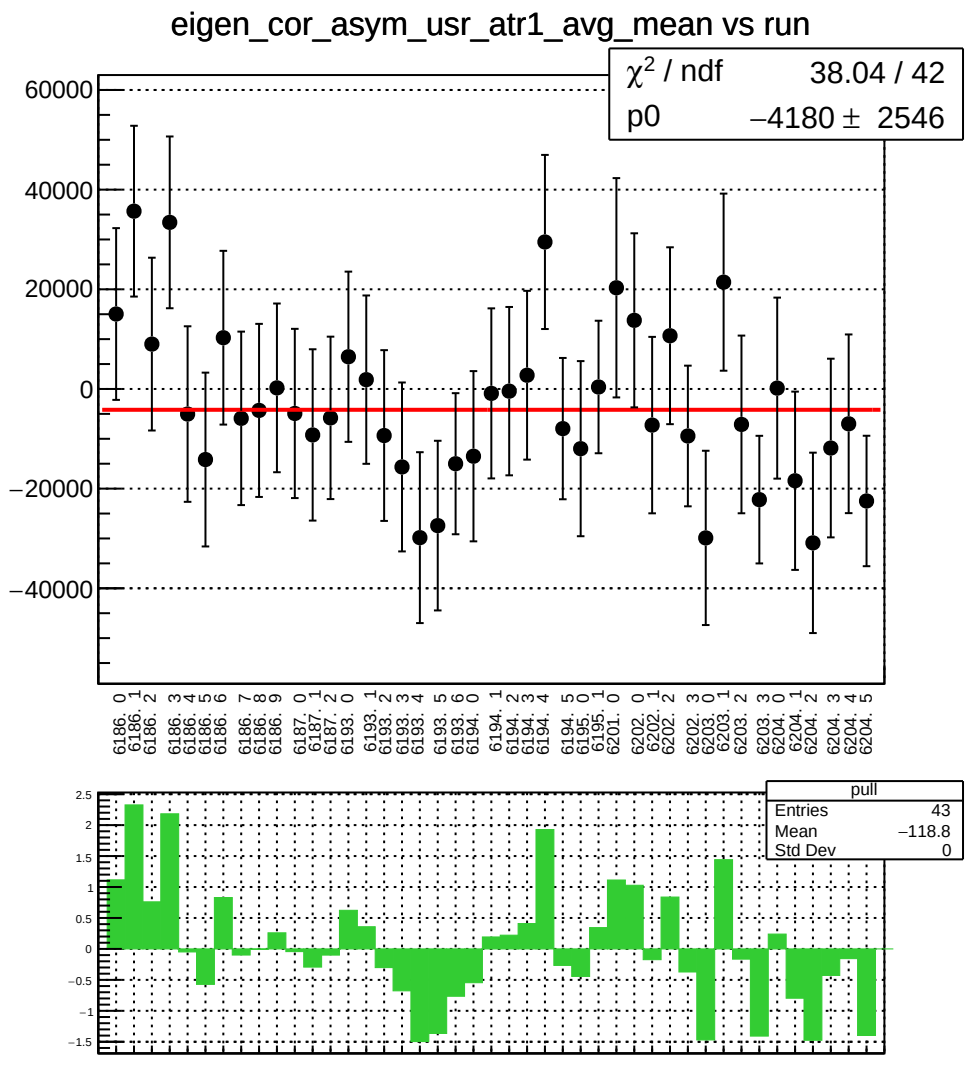
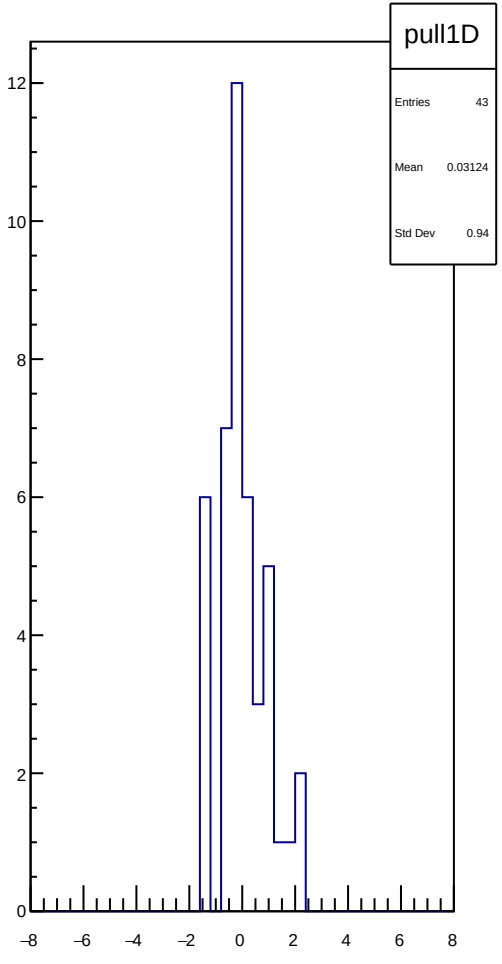
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

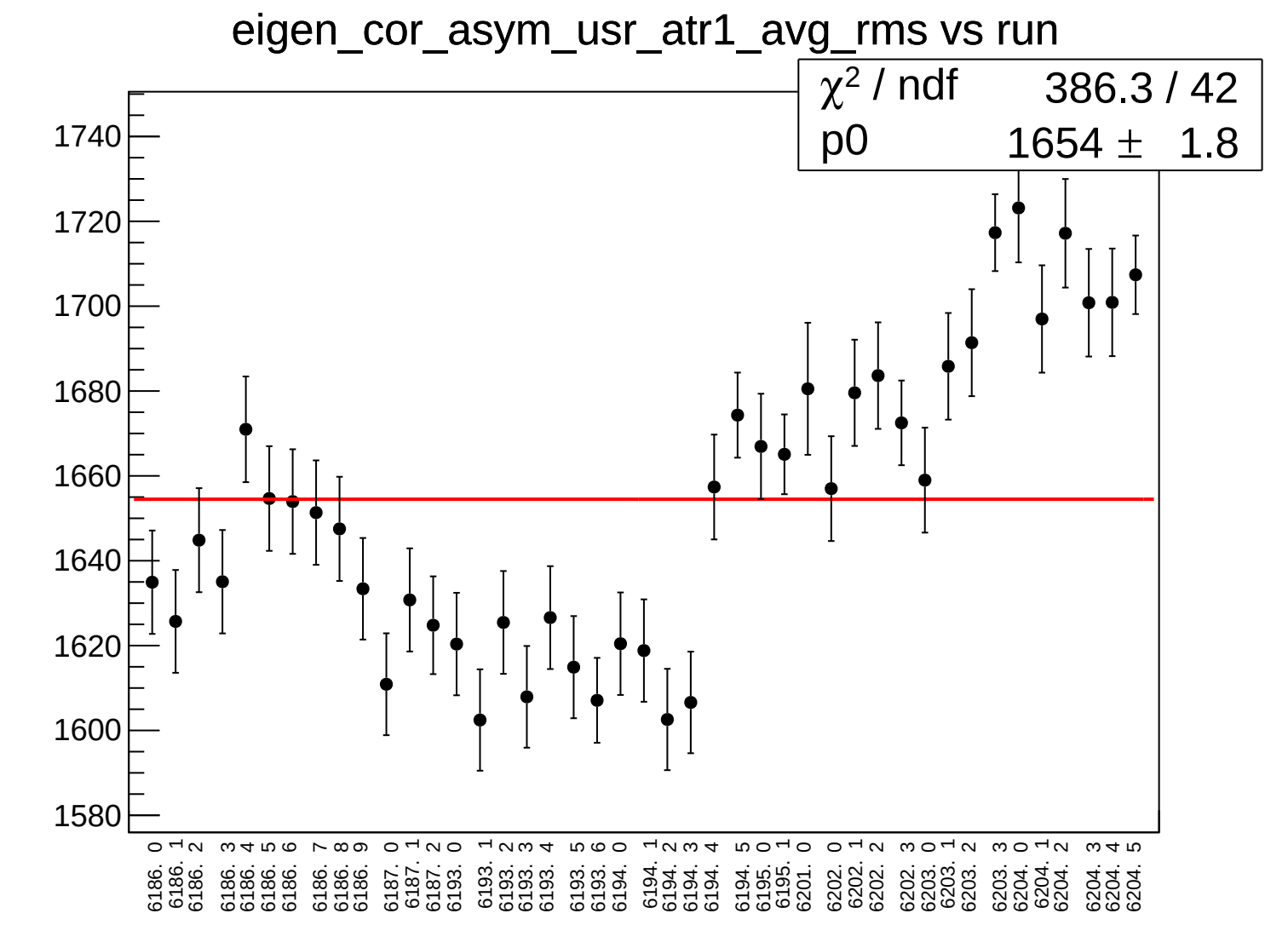

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 60.6 / 42
p0 1743 ± 1730
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1947
Std Dev 0
4
3
2
1
0
−1
−2
−3

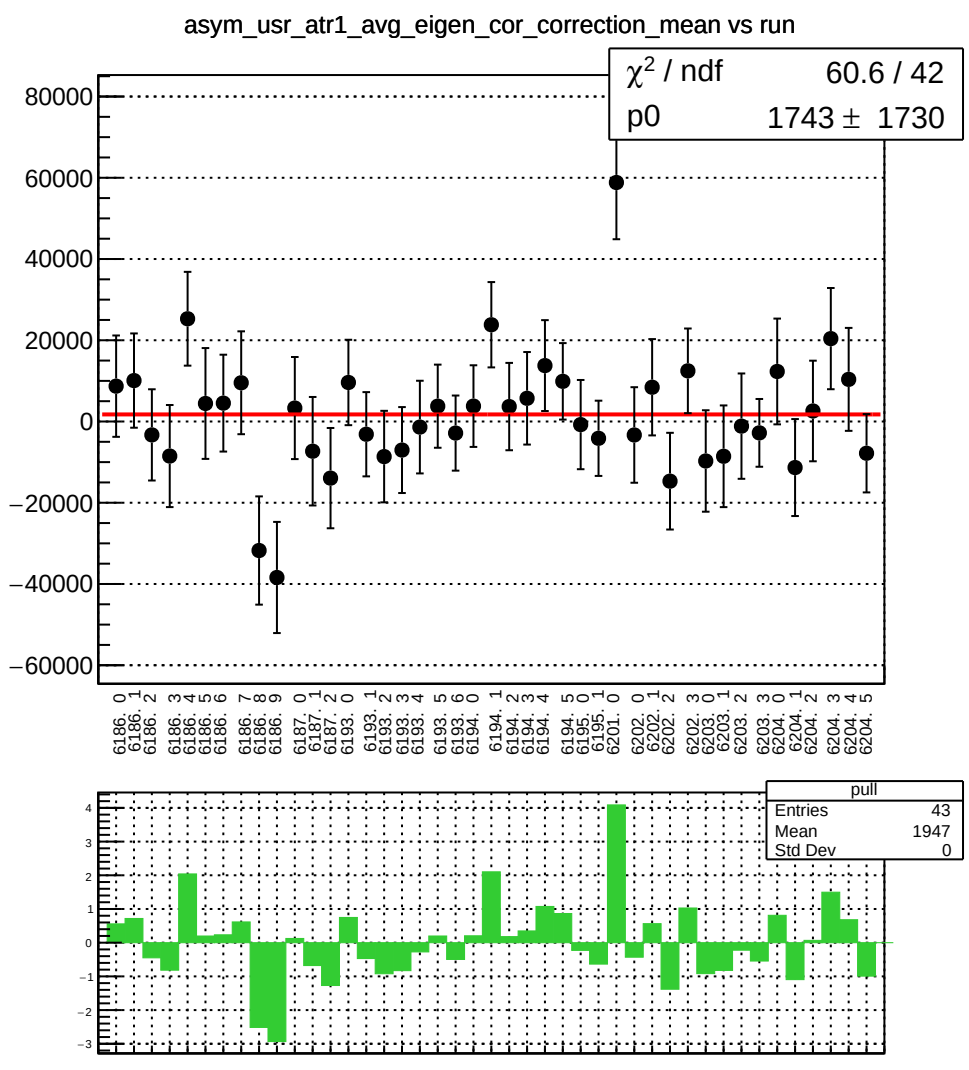

pull1D
Entries 43
Mean 0.0006575
Std Dev 1.187
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

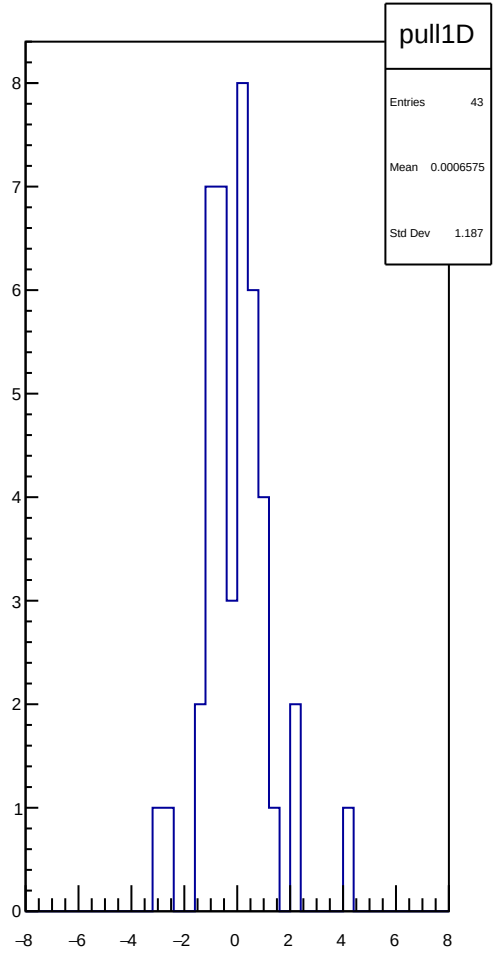

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 5673 / 42
p0 1121 ± 1.223
1350
1300
1250
1200
1150
1100
1050
1000
950
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

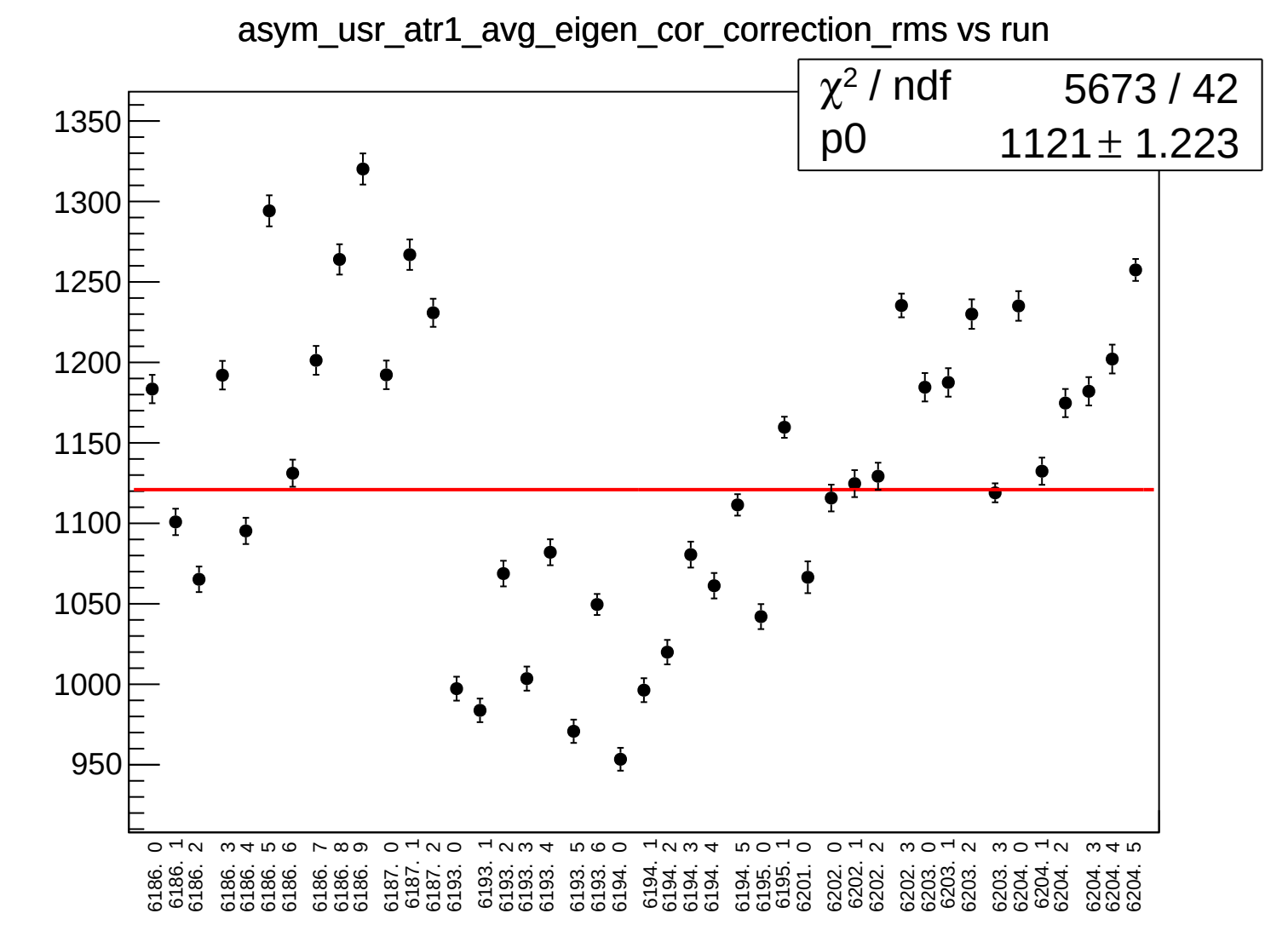

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 38.04 / 42
p0 −4180 ± 2546
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −118.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

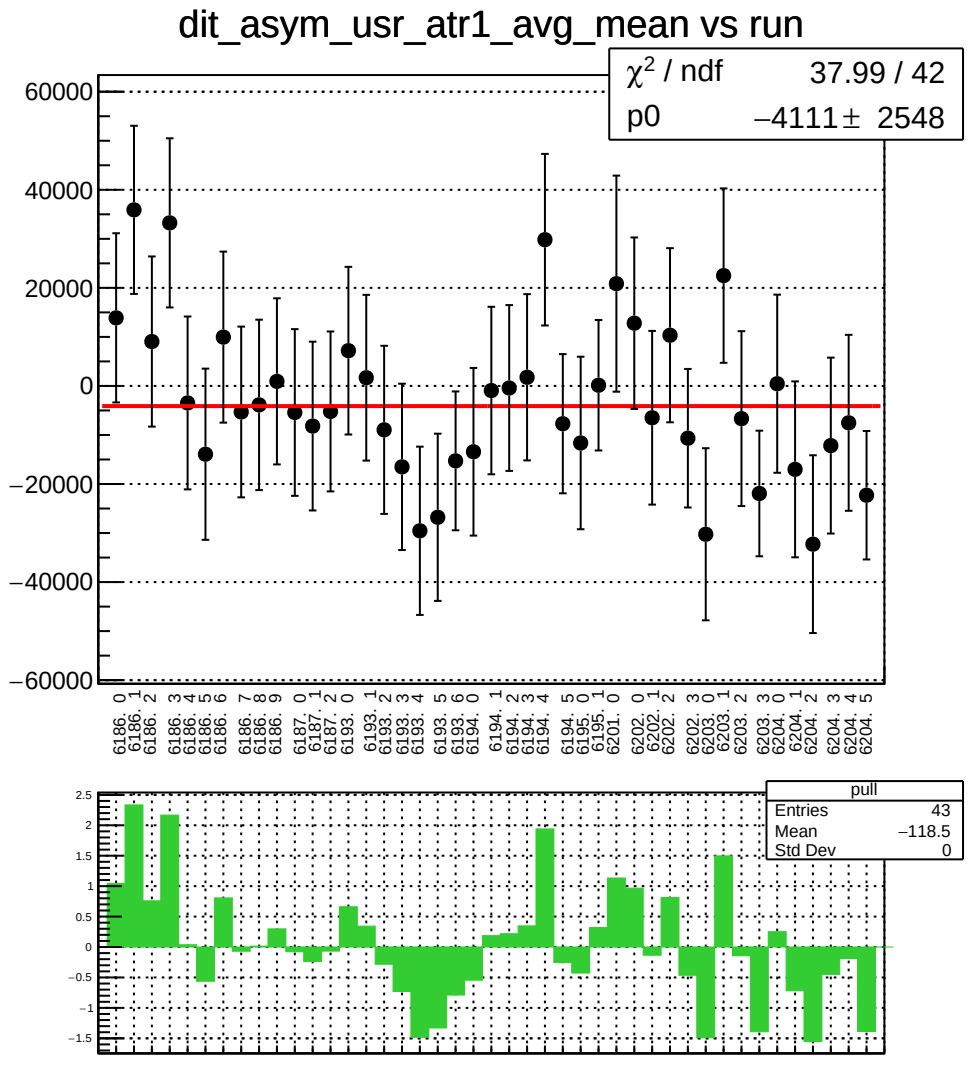

pull1D
Entries 43
Mean 0.03124
Std Dev 0.94
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

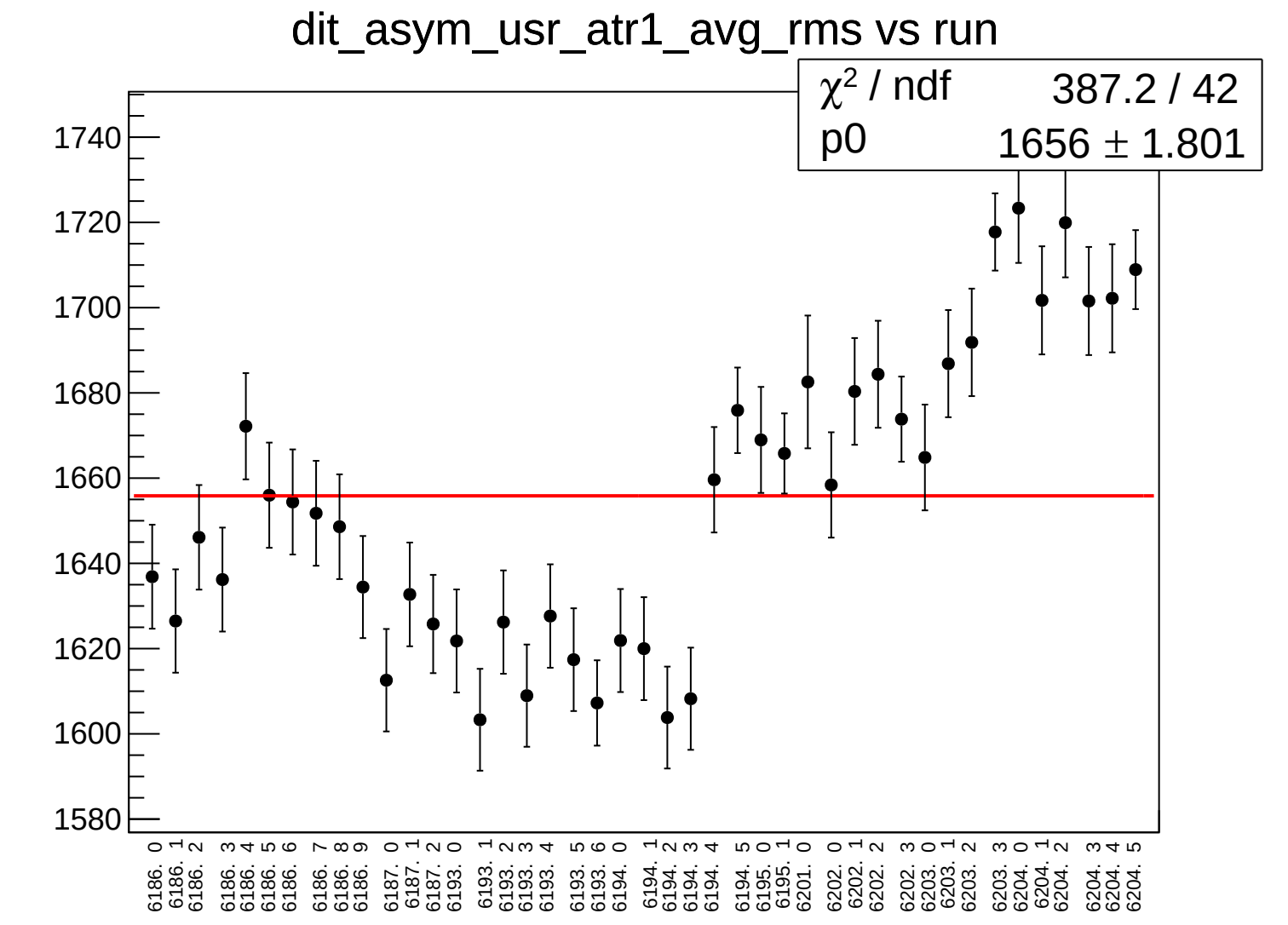

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 386.3 / 42
p0 1654 ± 1.8
1740
1720
1700
1680
1660
1640
1620
1600
1580
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

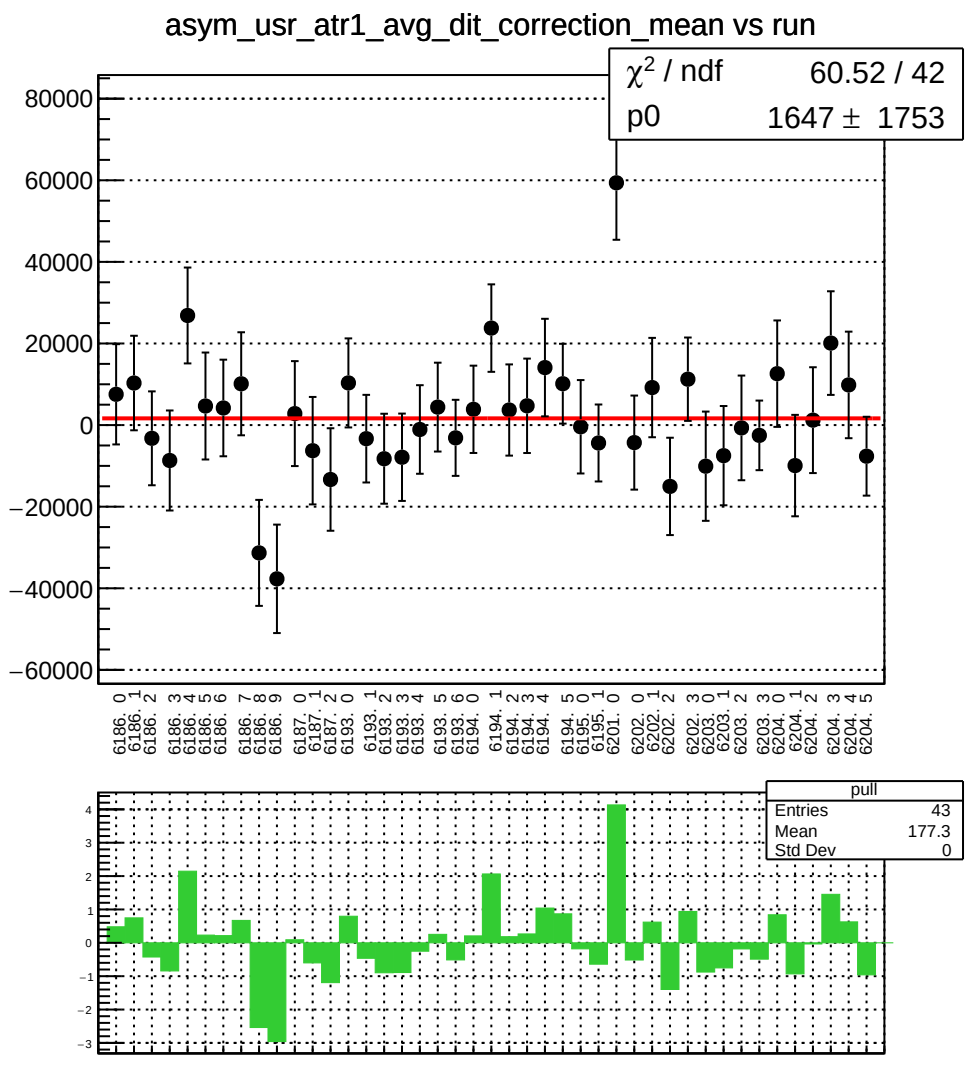

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 60.6 / 42
p0 1743 ± 1730
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1947
Std Dev 0
4
3
2
1
0
−1
−2
−3

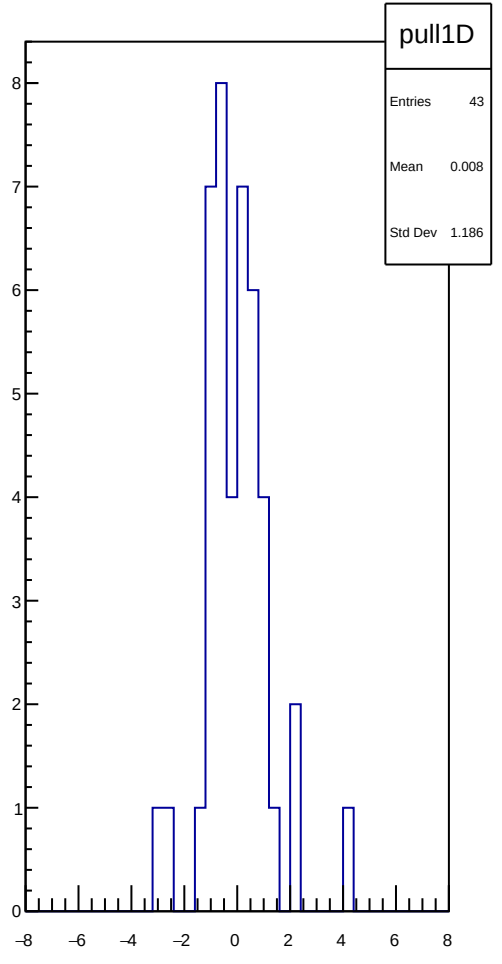

pull1D
Entries 43
Mean 0.0006575
Std Dev 1.187
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

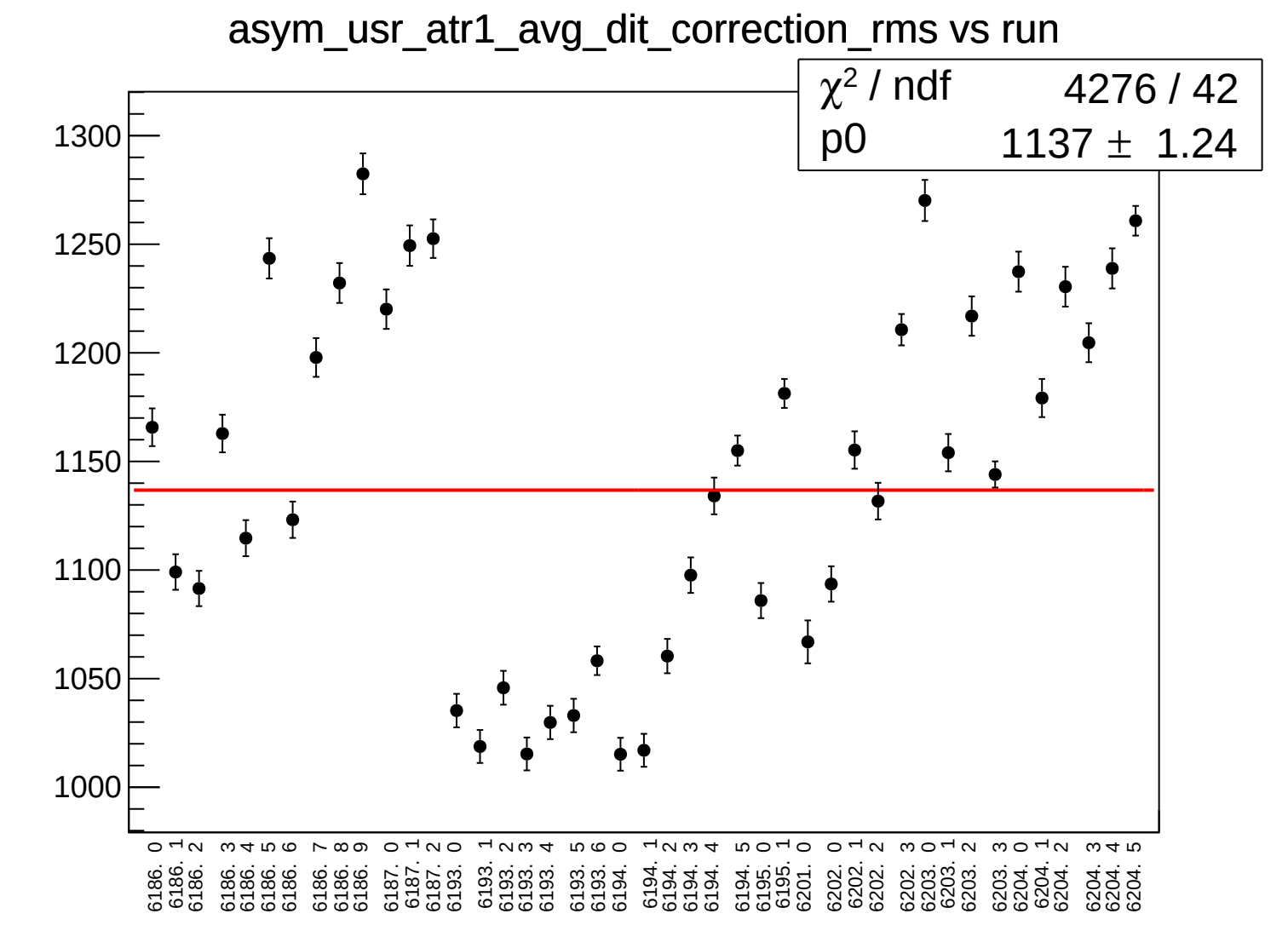

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 5673 / 42
p0 1121 ± 1.223
1350
1300
1250
1200
1150
1100
1050
1000
950
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

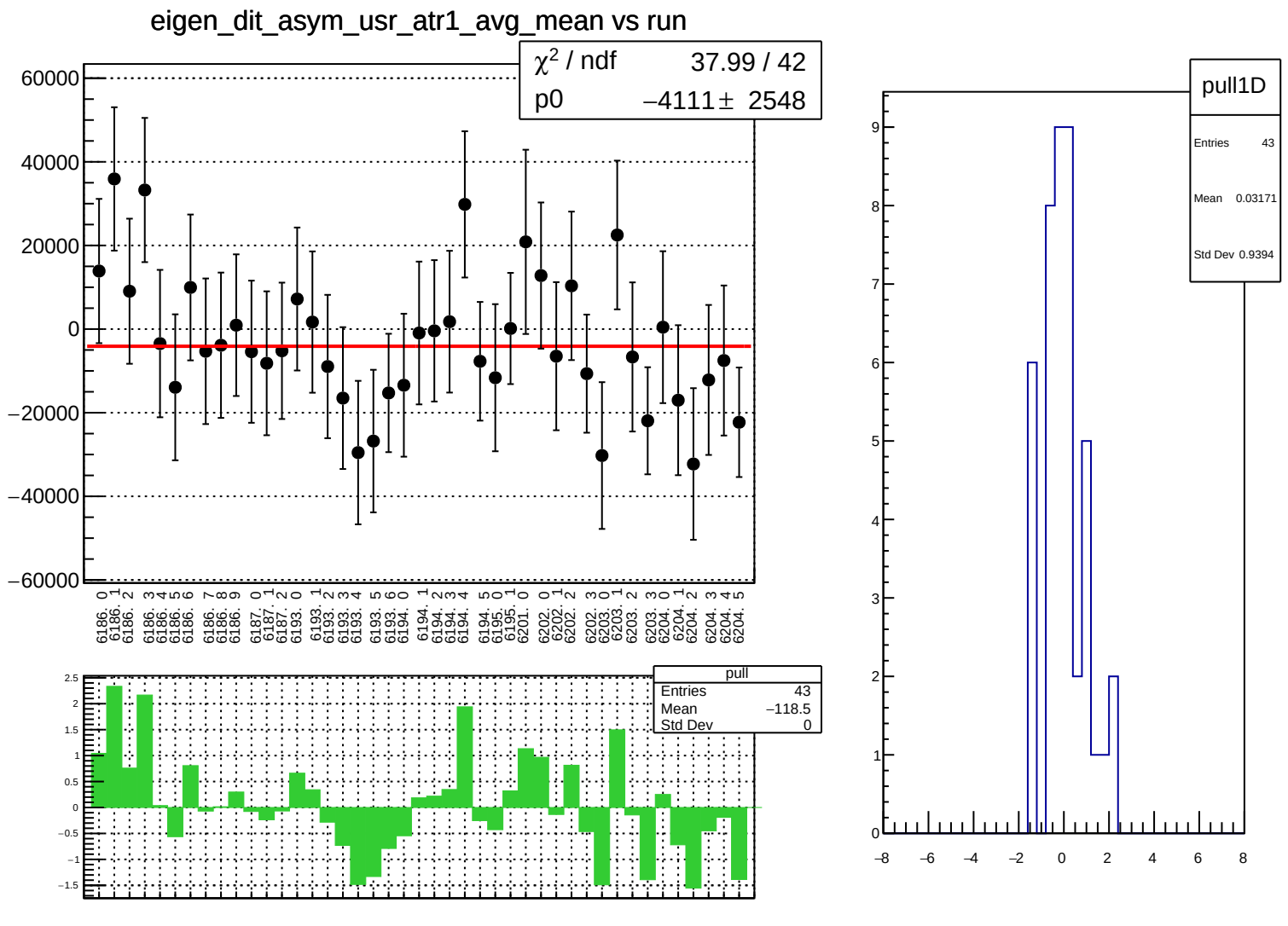

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 37.99 / 42
p0 −4111 ± 2548
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −118.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.03171
Std Dev 0.9394
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

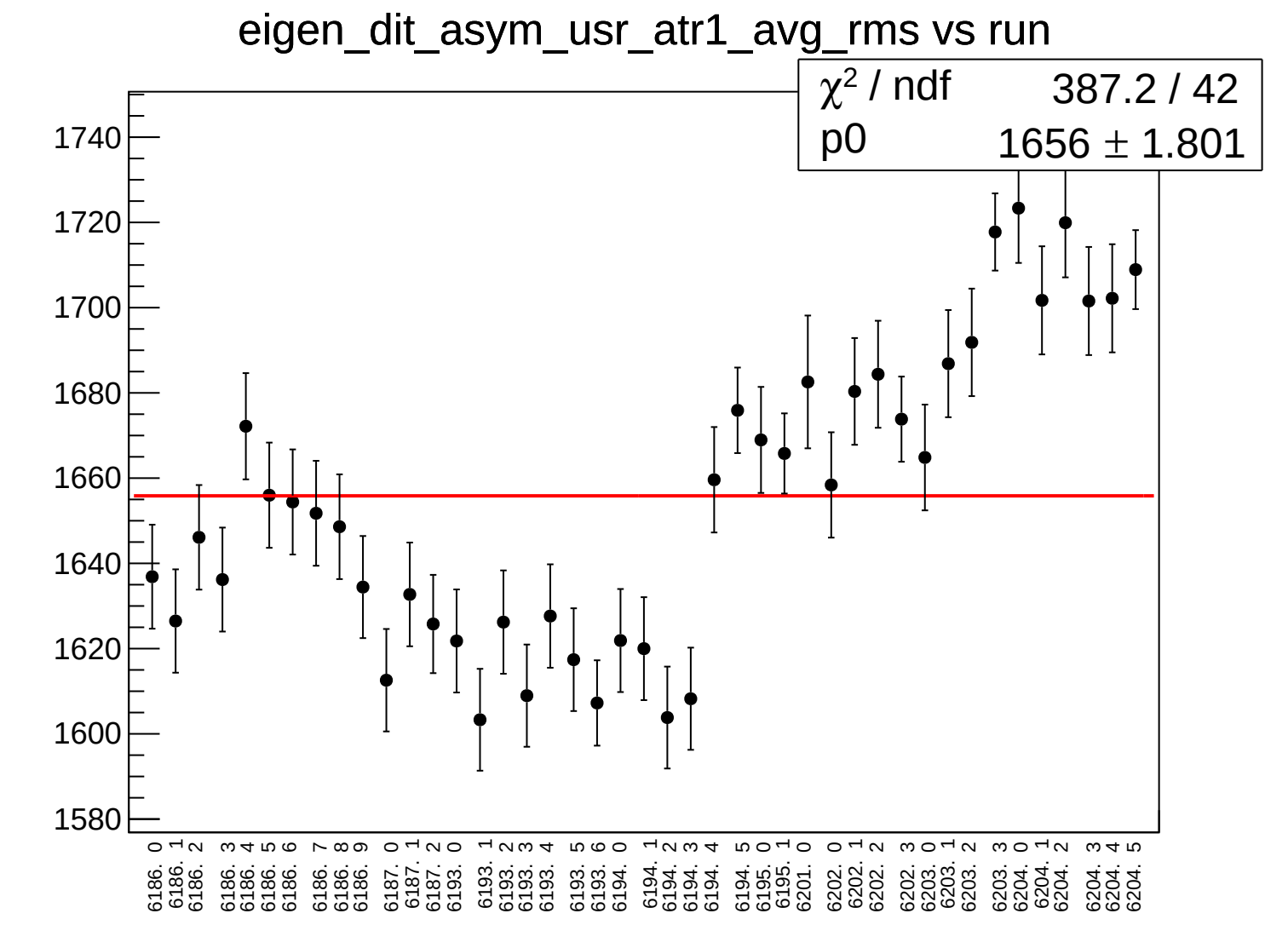

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 387.2 / 42
p0 1656 ± 1.801
1740
1720
1700
1680
1660
1640
1620
1600
1580
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

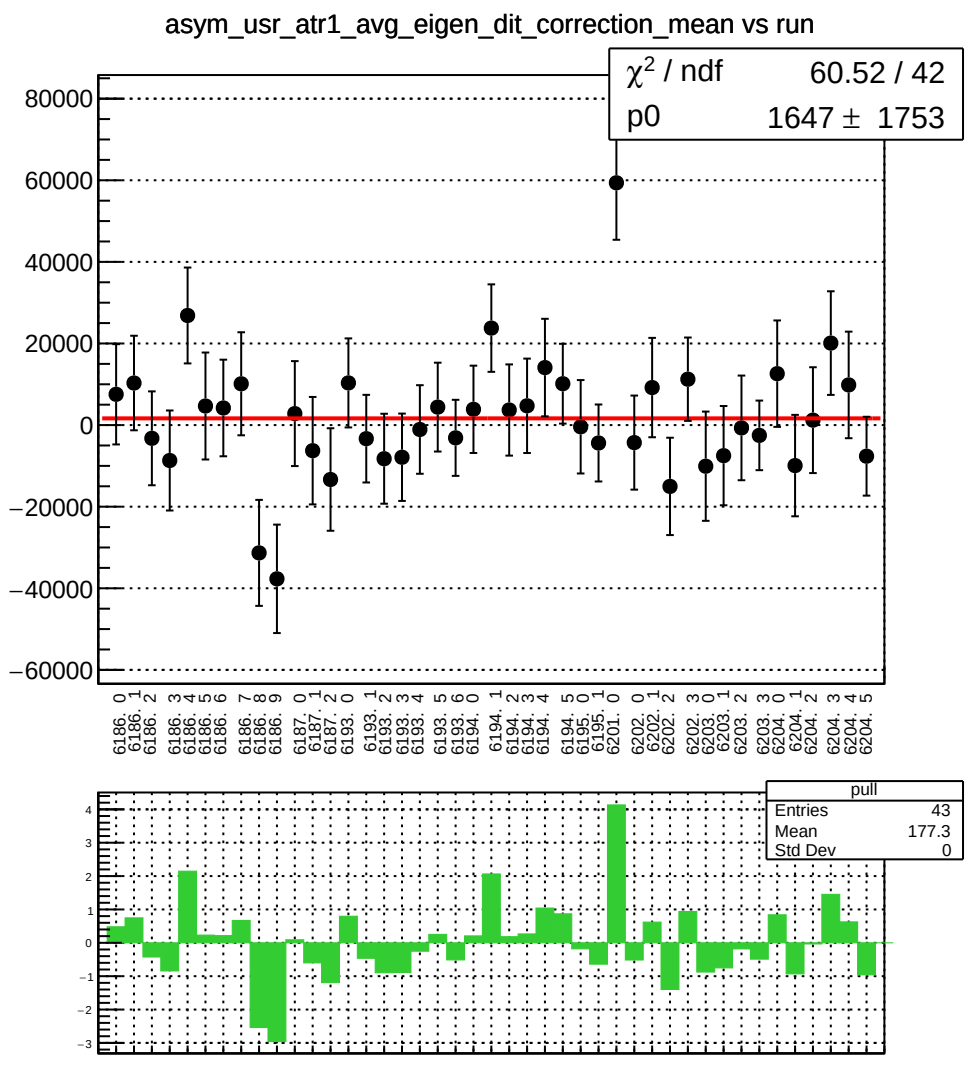

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 60.52 / 42
p0 1647 ± 1753
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 177.3
Std Dev 0
4
3
2
1
0
−1
−2
−3

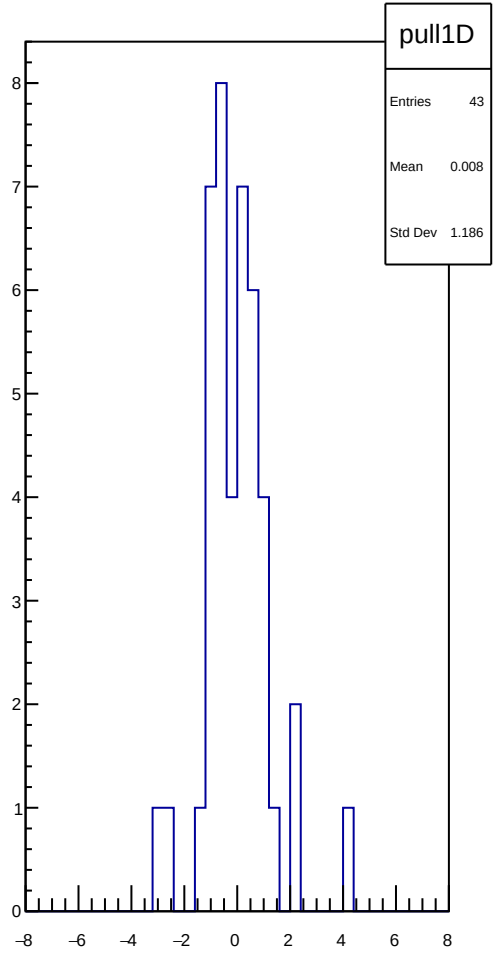

pull1D
Entries 43
Mean 0.008
Std Dev 1.186
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

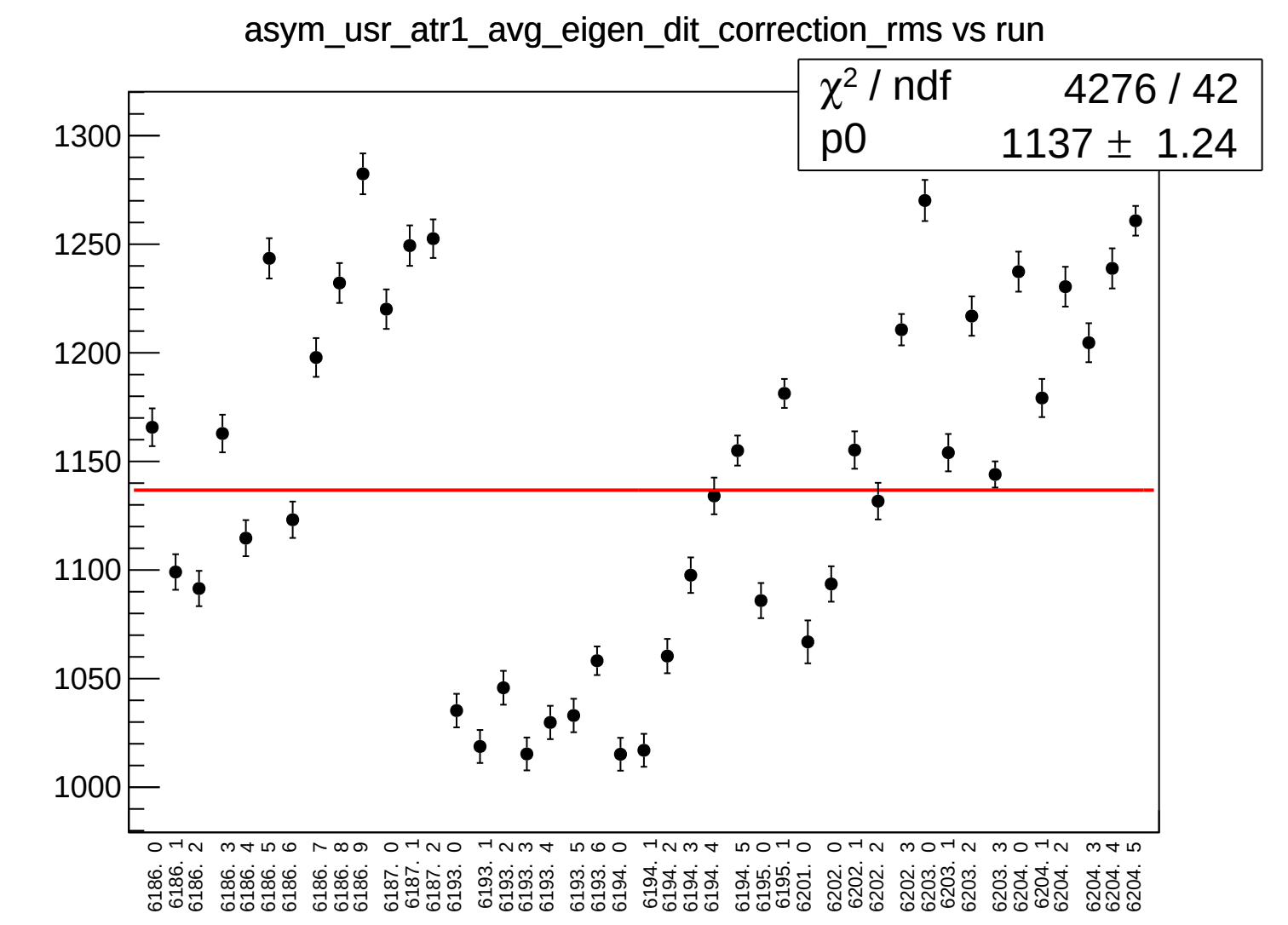

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 4276 / 42
p0 1137 ± 1.24
1300
1250
1200
1150
1100
1050
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

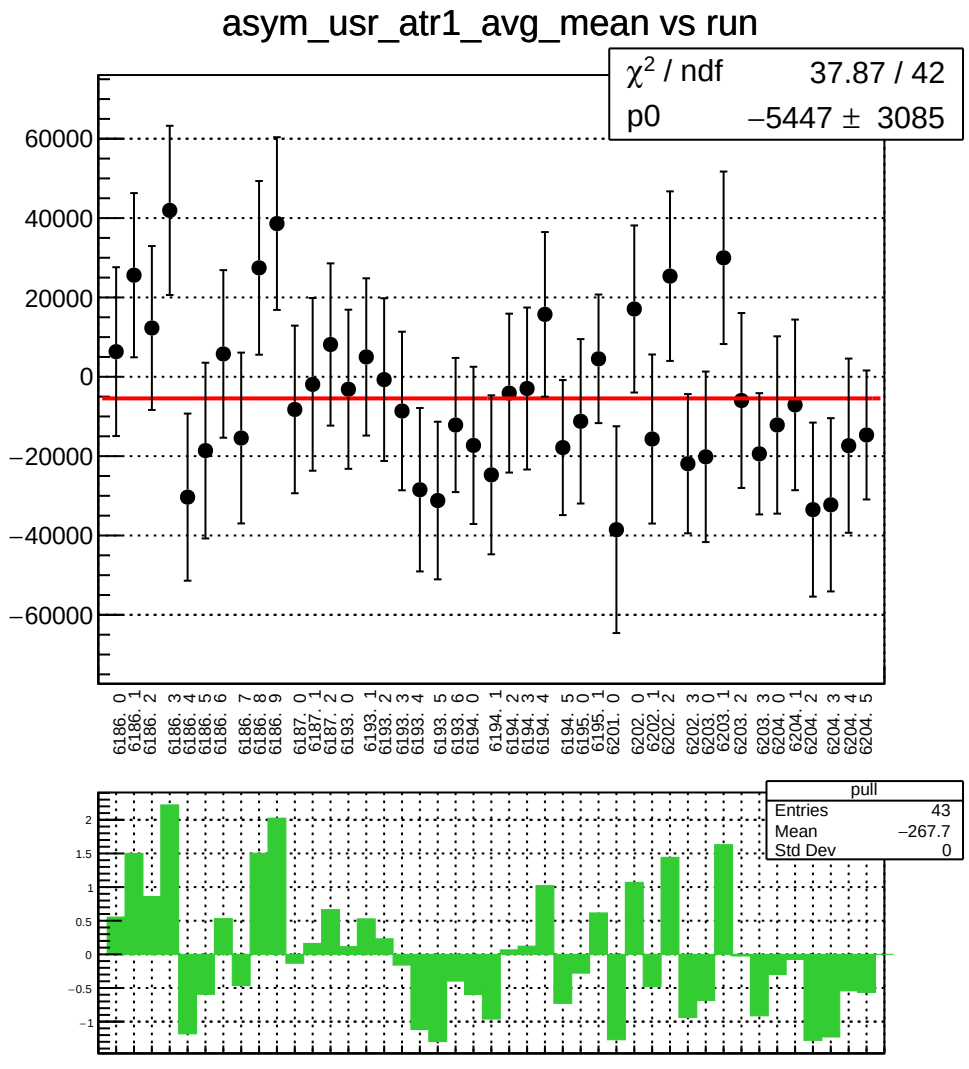

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 37.99 / 42
p0 −4111 ± 2548
pull
Entries 43
Mean −118.5
Std Dev 0
pull1D
Entries 43
Mean 0.03171
Std Dev 0.9394

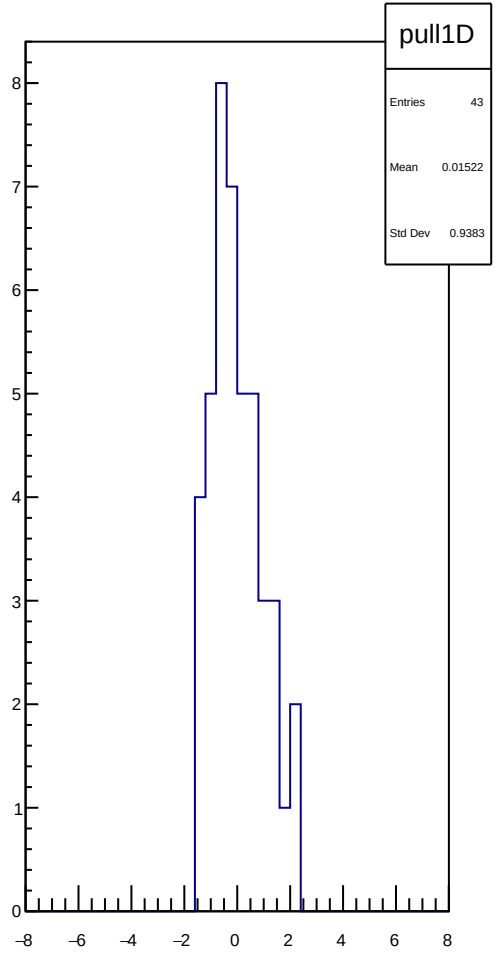

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 387.2 / 42
p0 1656 ± 1.801
1740
1720
1700
1680
1660
1640
1620
1600
1580
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

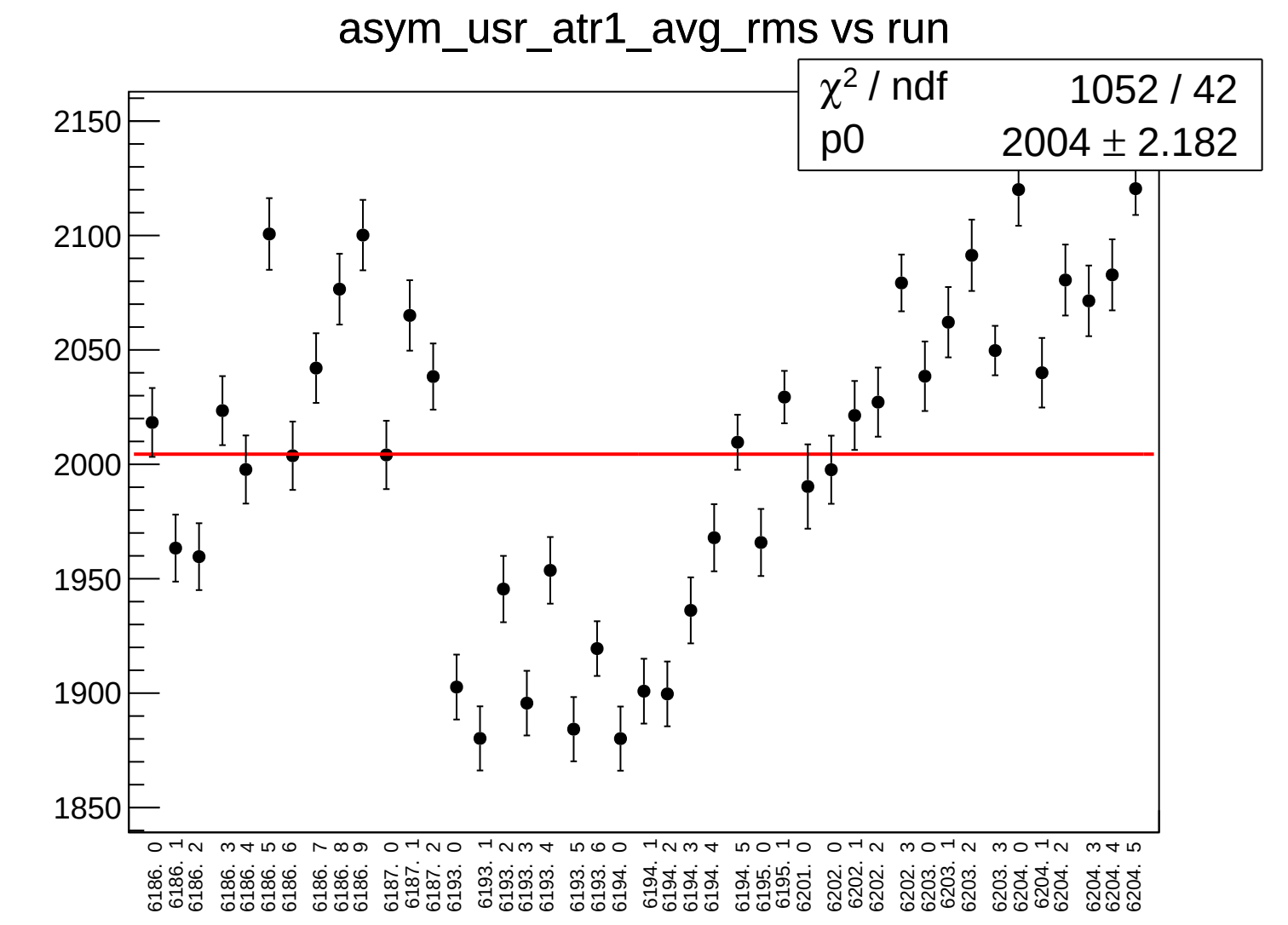

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 60.52 / 42
p0 1647 ± 1753
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 177.3
Std Dev 0
4
3
2
1
0
−1
−2
−3

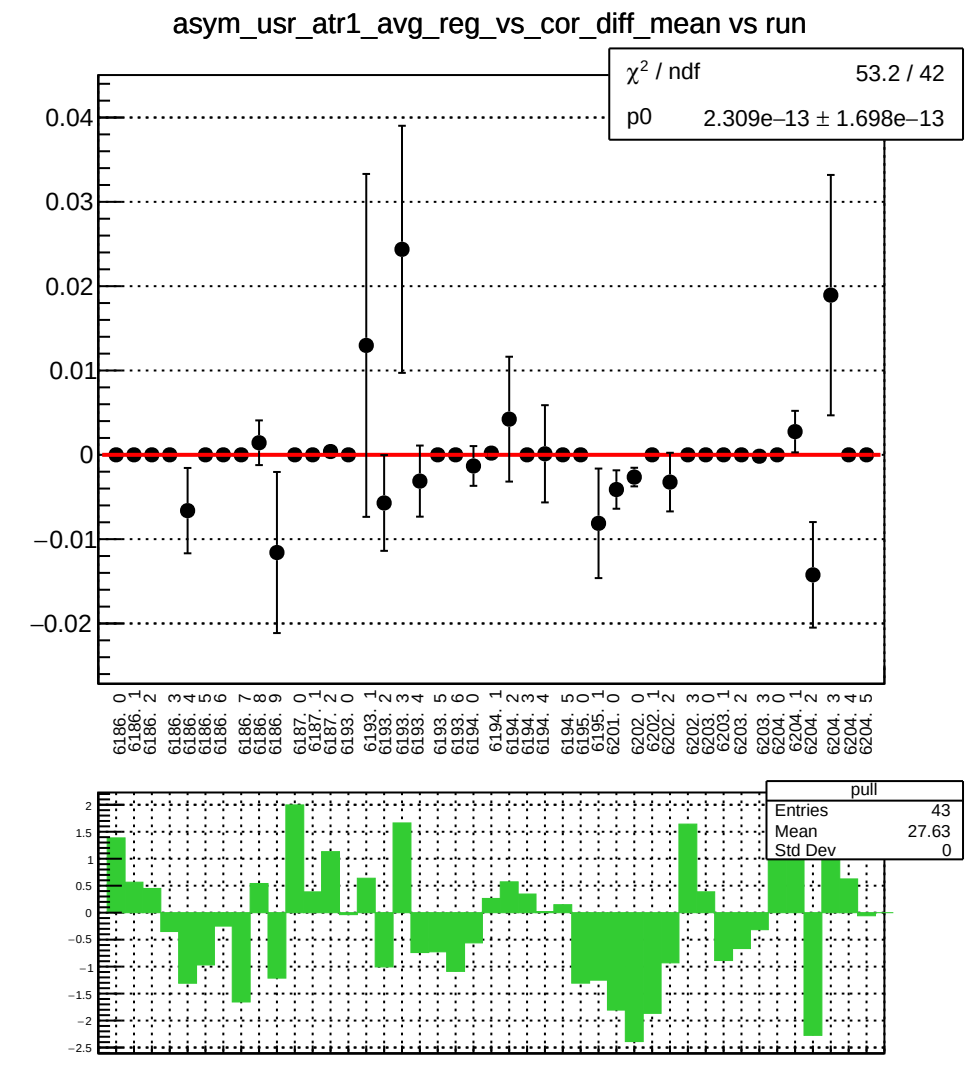

pull1D
Entries 43
Mean 0.008
Std Dev 1.186
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

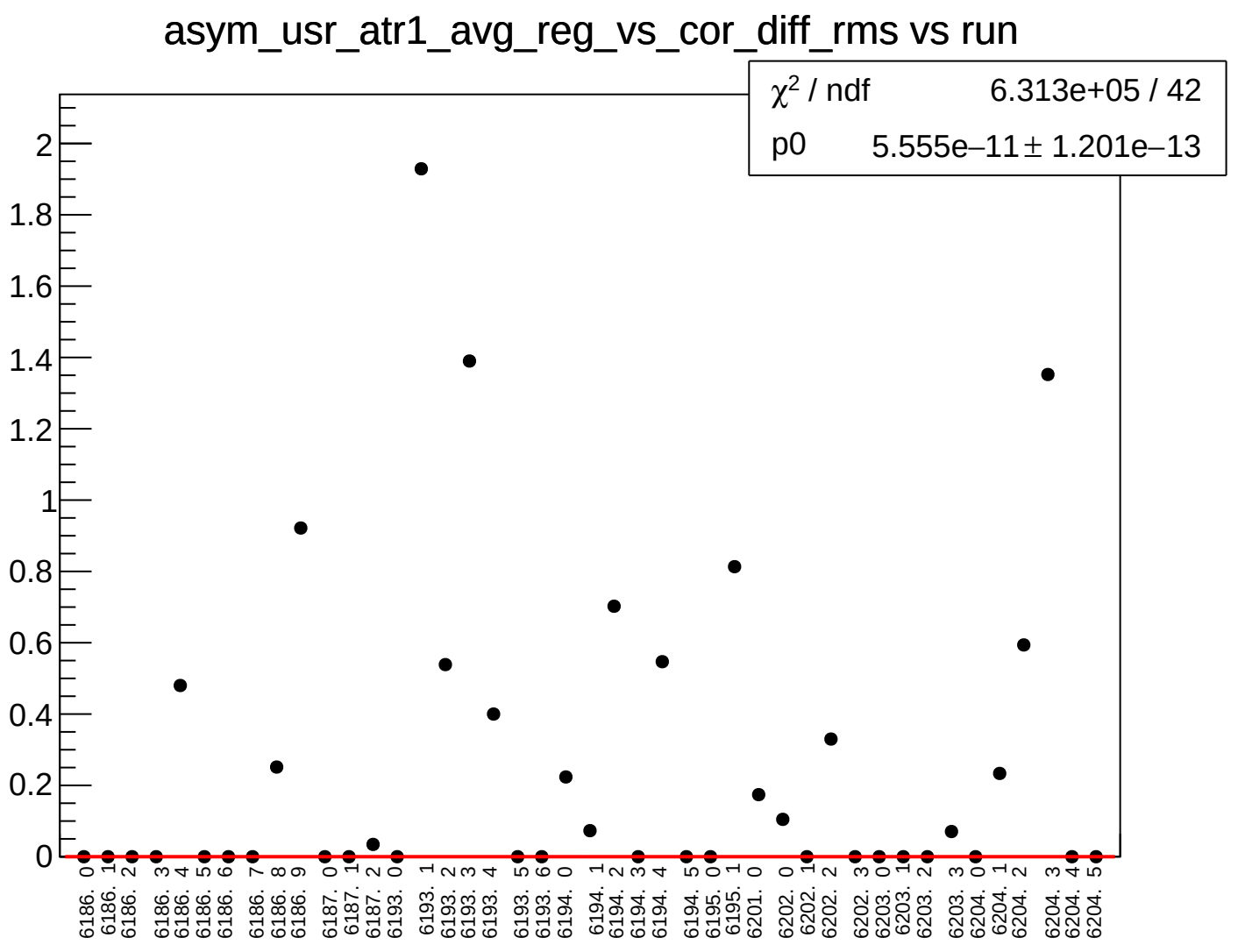

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4276 / 42
p0 1137 ± 1.24
1300
1250
1200
1150
1100
1050
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

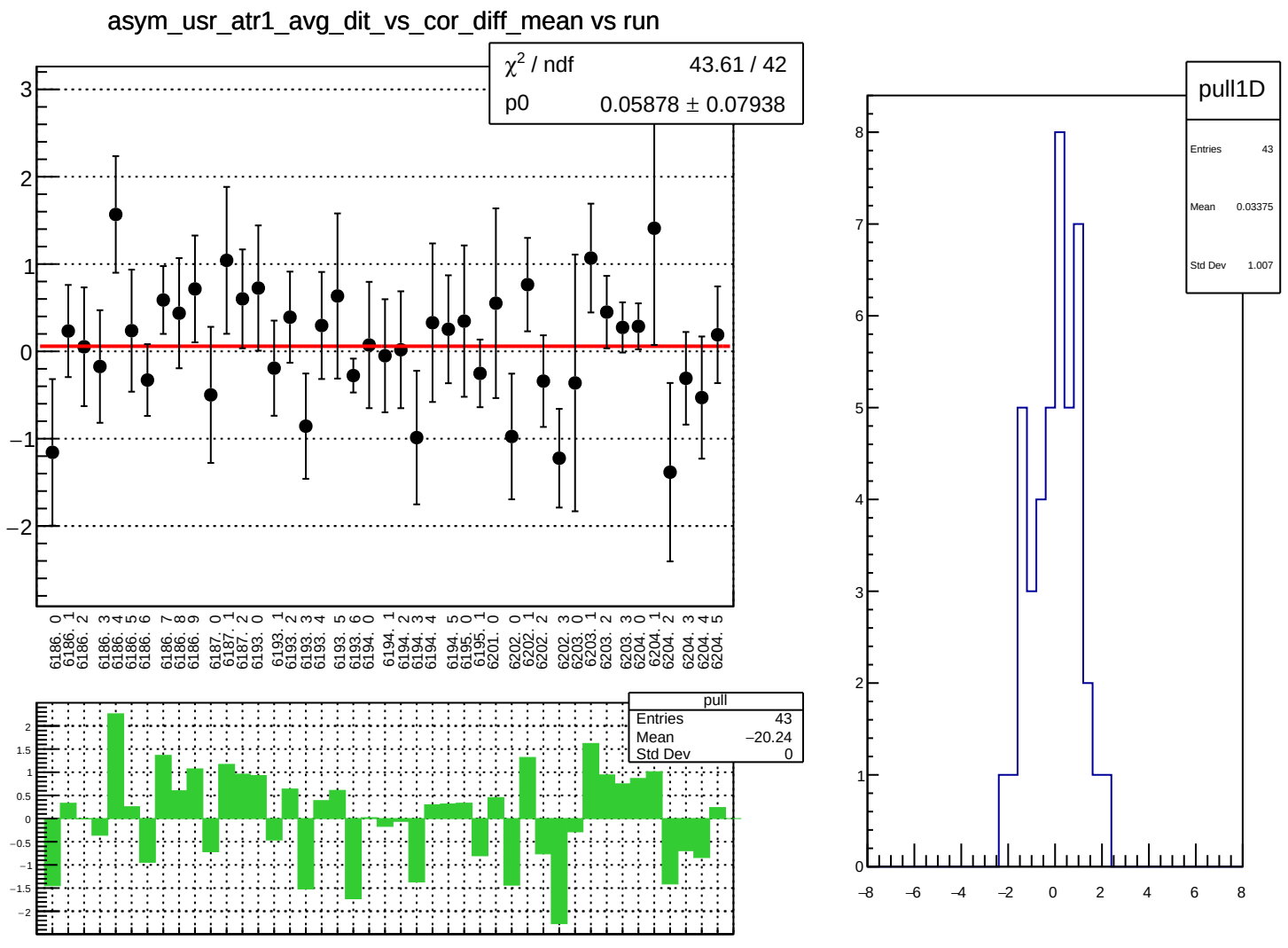

asym_usr_atr1_avg_mean vs run
χ² / ndf 37.87 / 42
p0 −5447 ± 3085
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −267.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

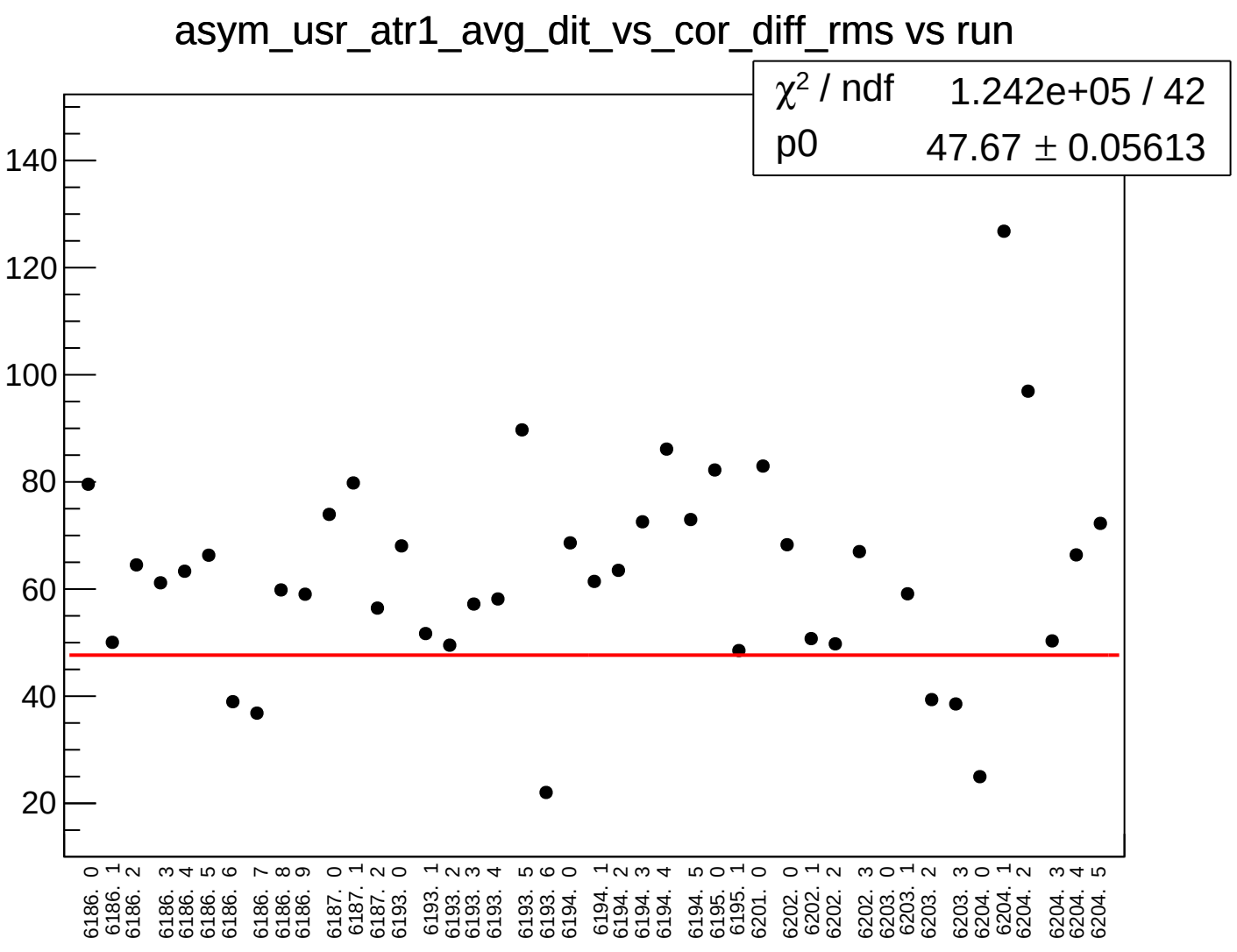

pull1D
Entries 43
Mean 0.01522
Std Dev 0.9383
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

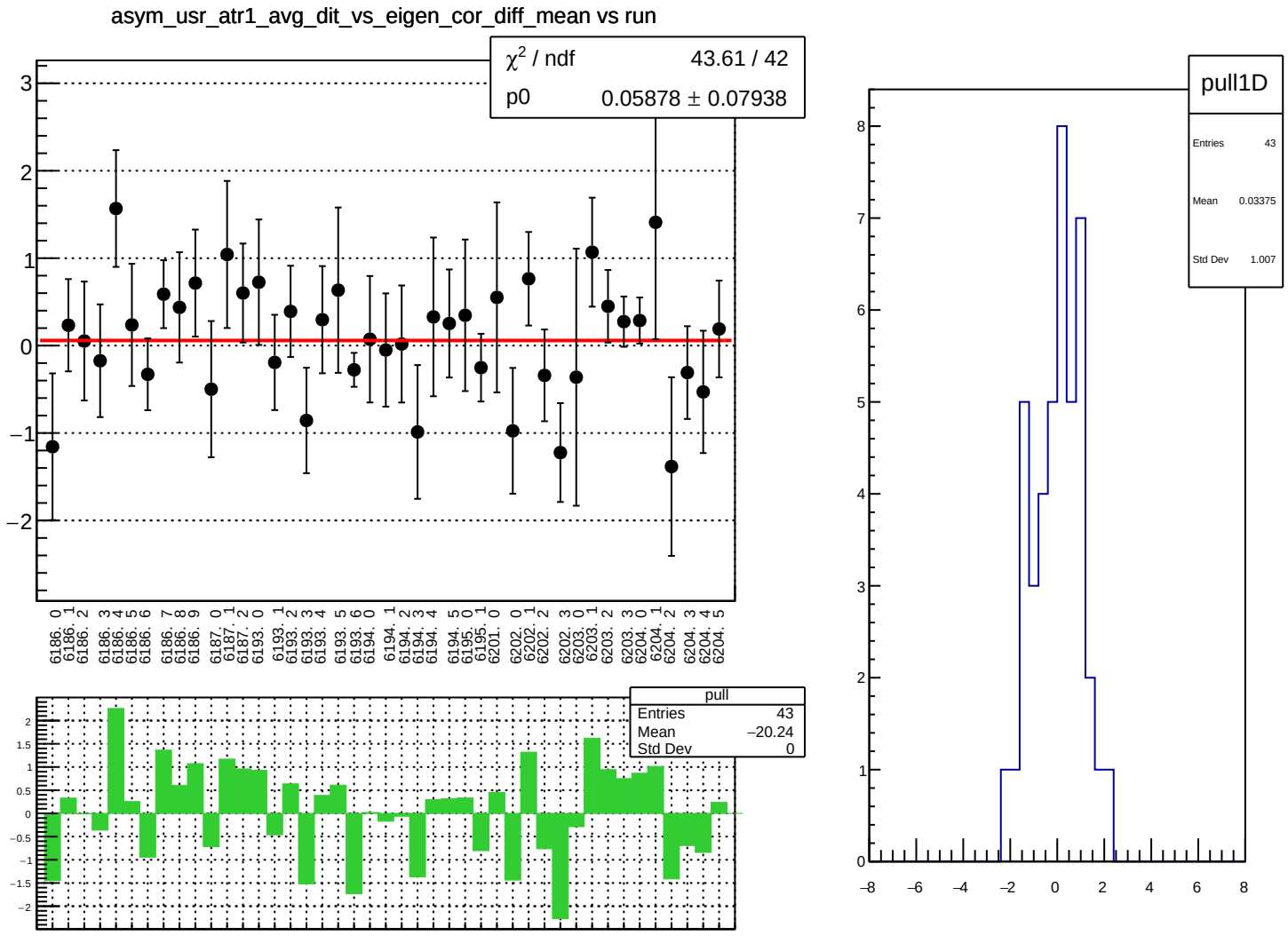

asym_usr_atr1_avg_rms vs run
χ² / ndf 1052 / 42
p0 2004 ± 2.182
2150
2100
2050
2000
1950
1900
1850
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

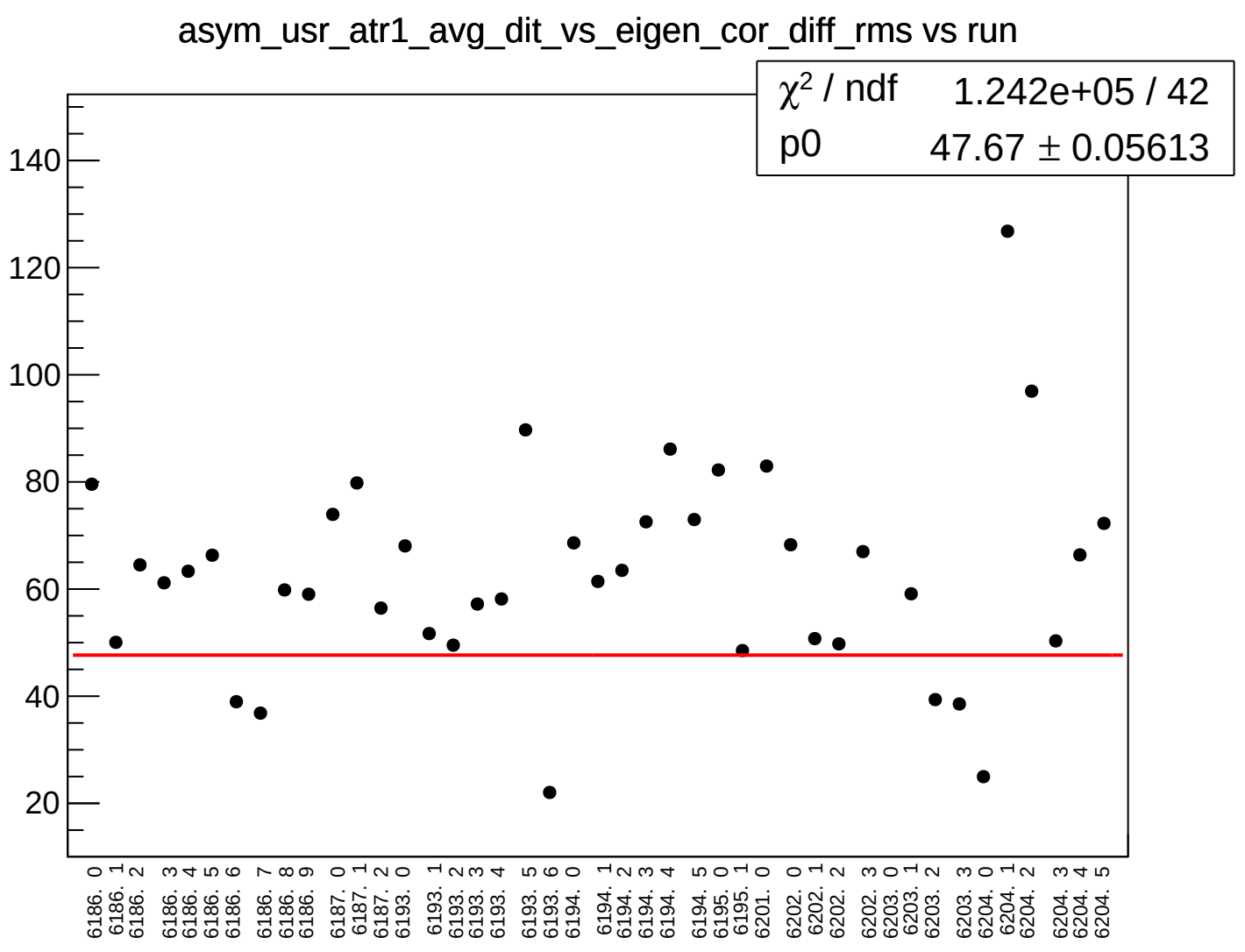

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 53.2 / 42
p0 2.309e−13 ± 1.698e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 27.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.1689
Std Dev 1.099
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

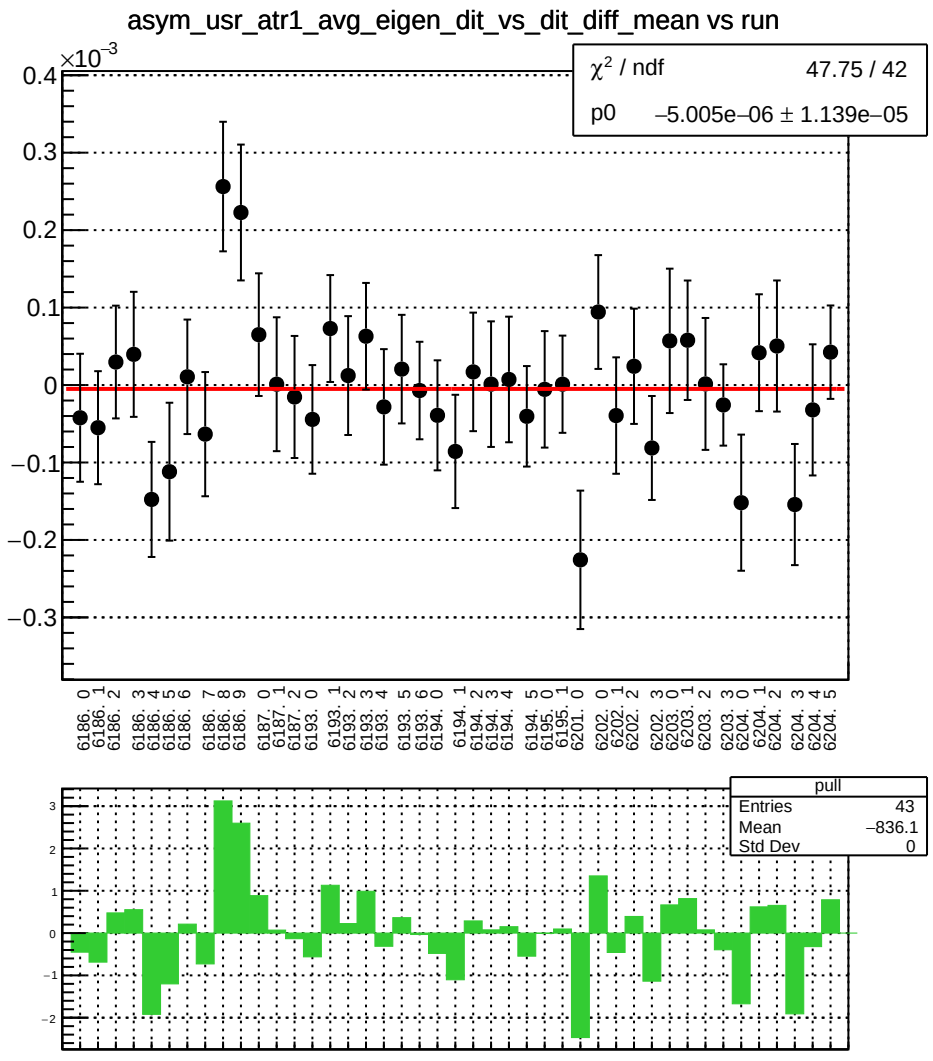

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 6.313e+05 / 42
p0 5.555e−11 ± 1.201e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

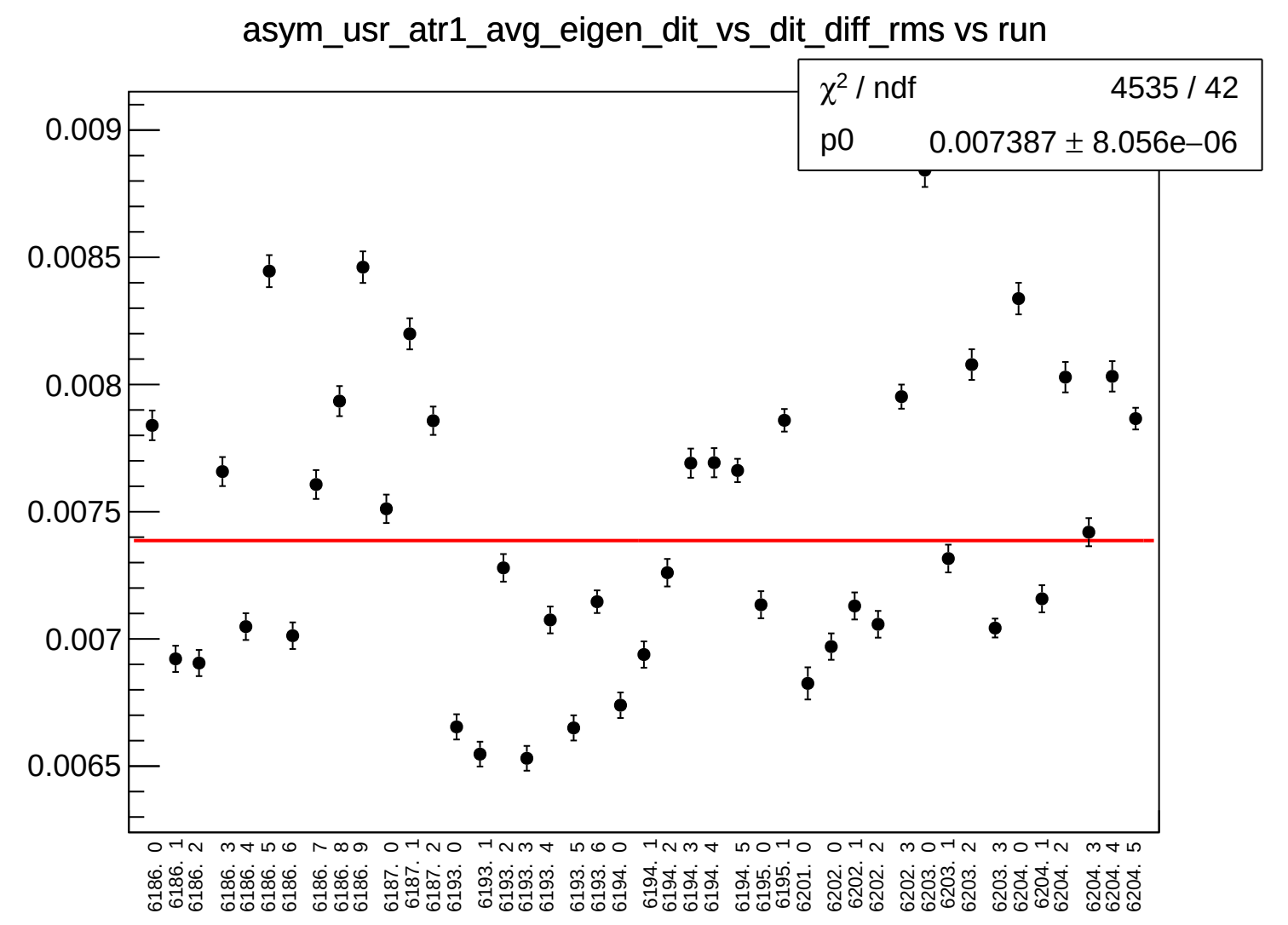

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 43.61 / 42
p0 0.05878 ± 0.07938
pull
Entries 43
Mean −20.24
Std Dev 0
pull1D
Entries 43
Mean 0.03375
Std Dev 1.007


asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.242e+05 / 42
p0 47.67 ± 0.05613
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

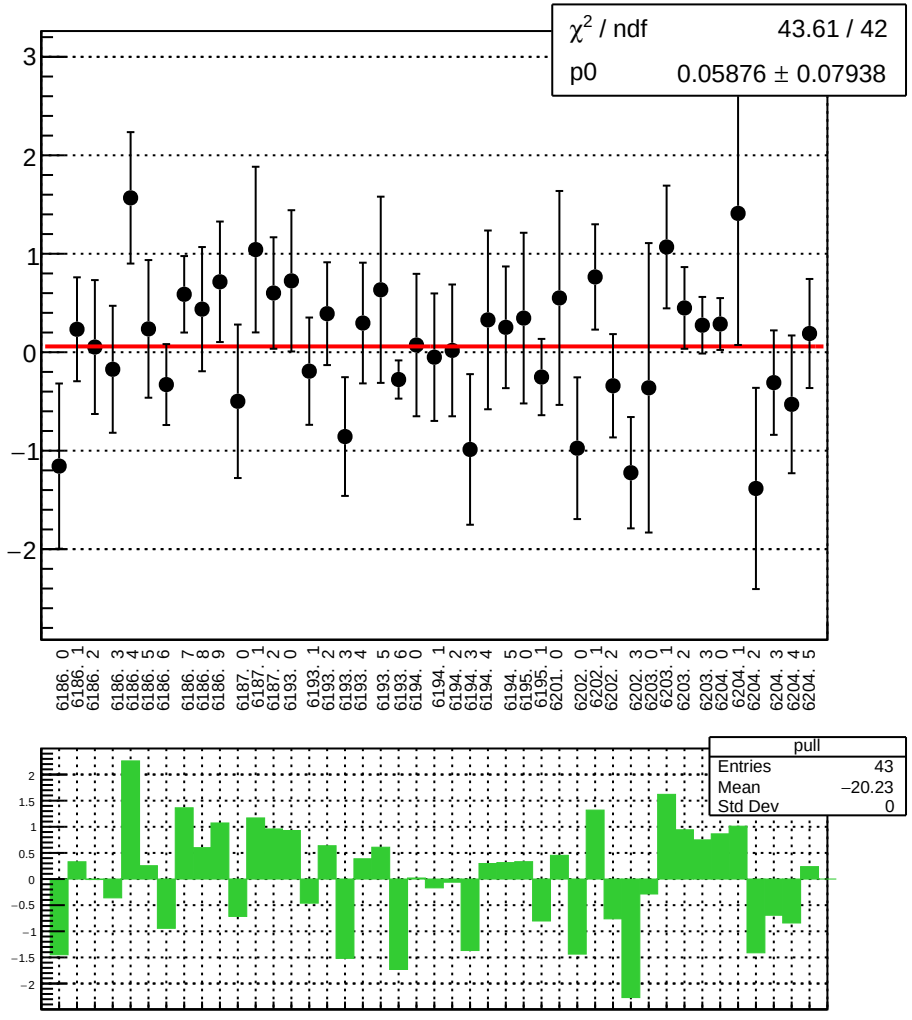

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.61 / 42
p0 0.05878 ± 0.07938
3
2
1
0
−1
−2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −20.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.03375
Std Dev 1.007
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

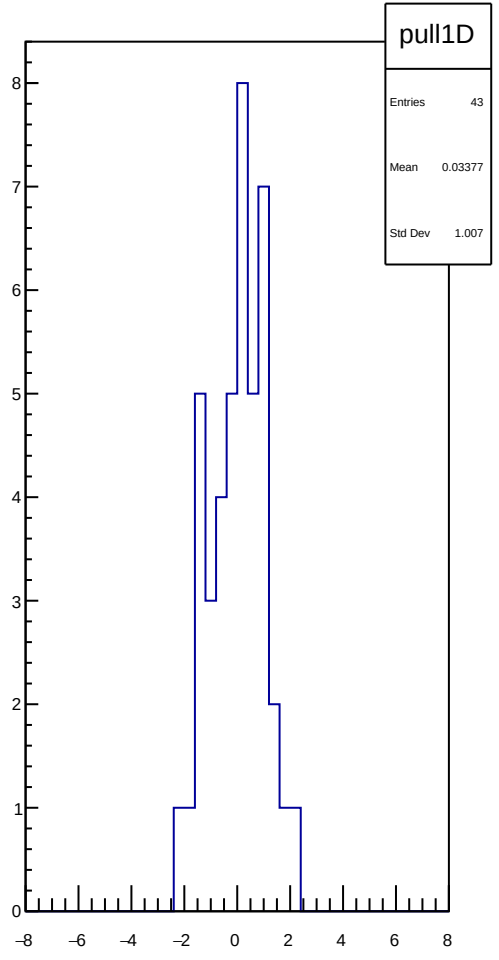

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.242e+05 / 42
p0 47.67 ± 0.05613
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

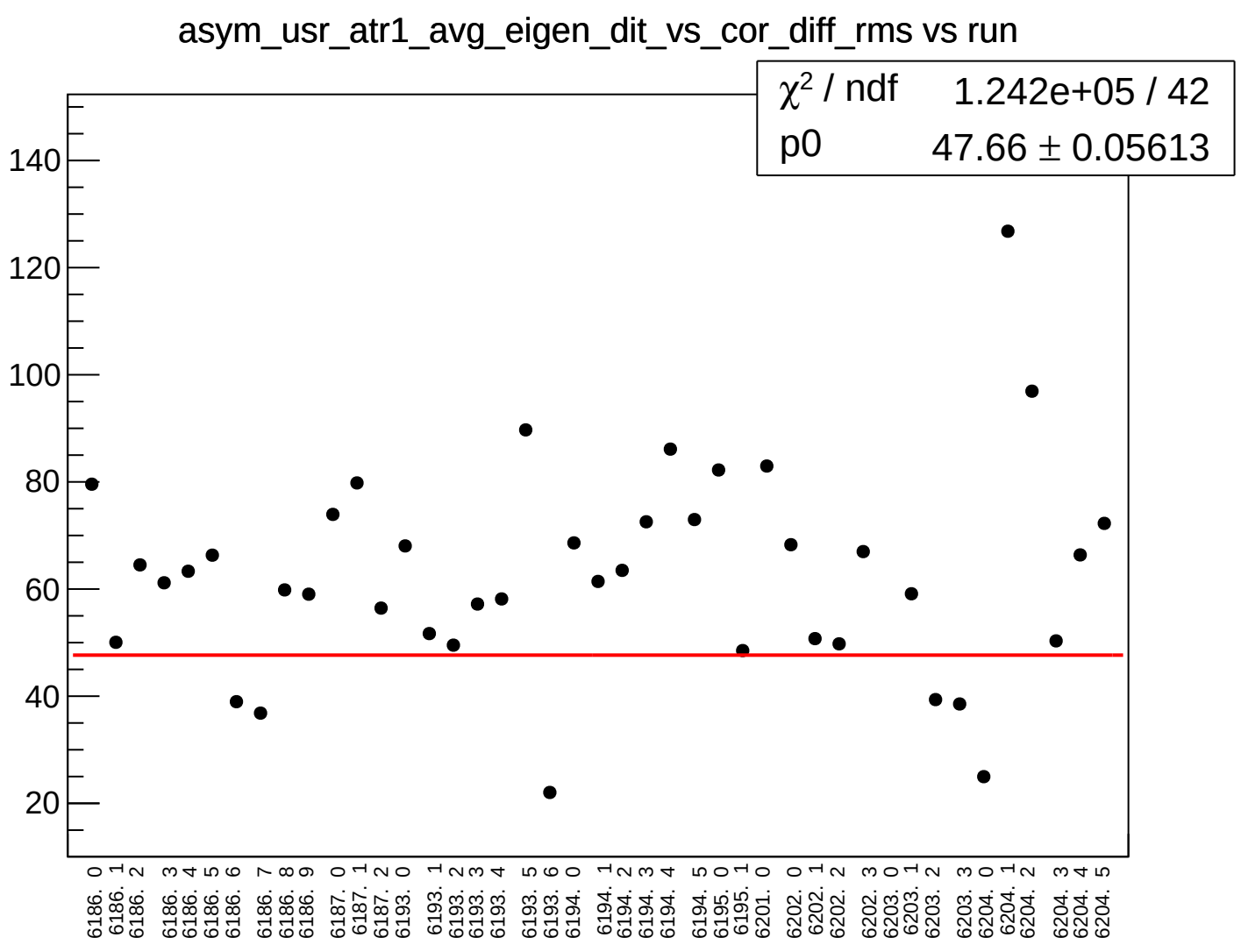

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 47.75 / 42
p0 −5.005e−06 ± 1.139e−05
pull
Entries 43
Mean −836.1
Std Dev 0
pull1D
Entries 43
Mean 0.001728
Std Dev 1.054

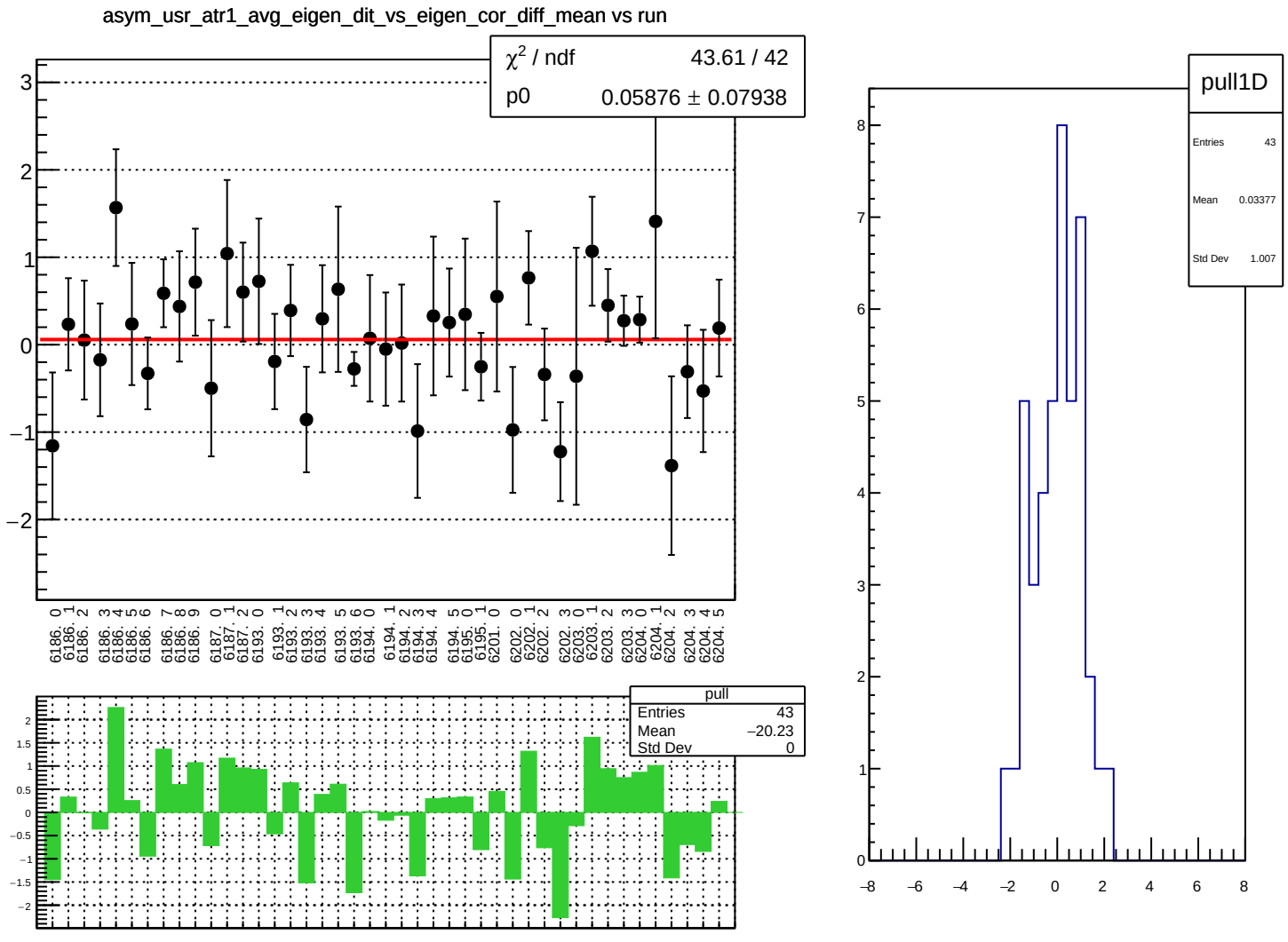

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4535 / 42
p0 0.007387 ± 8.056e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

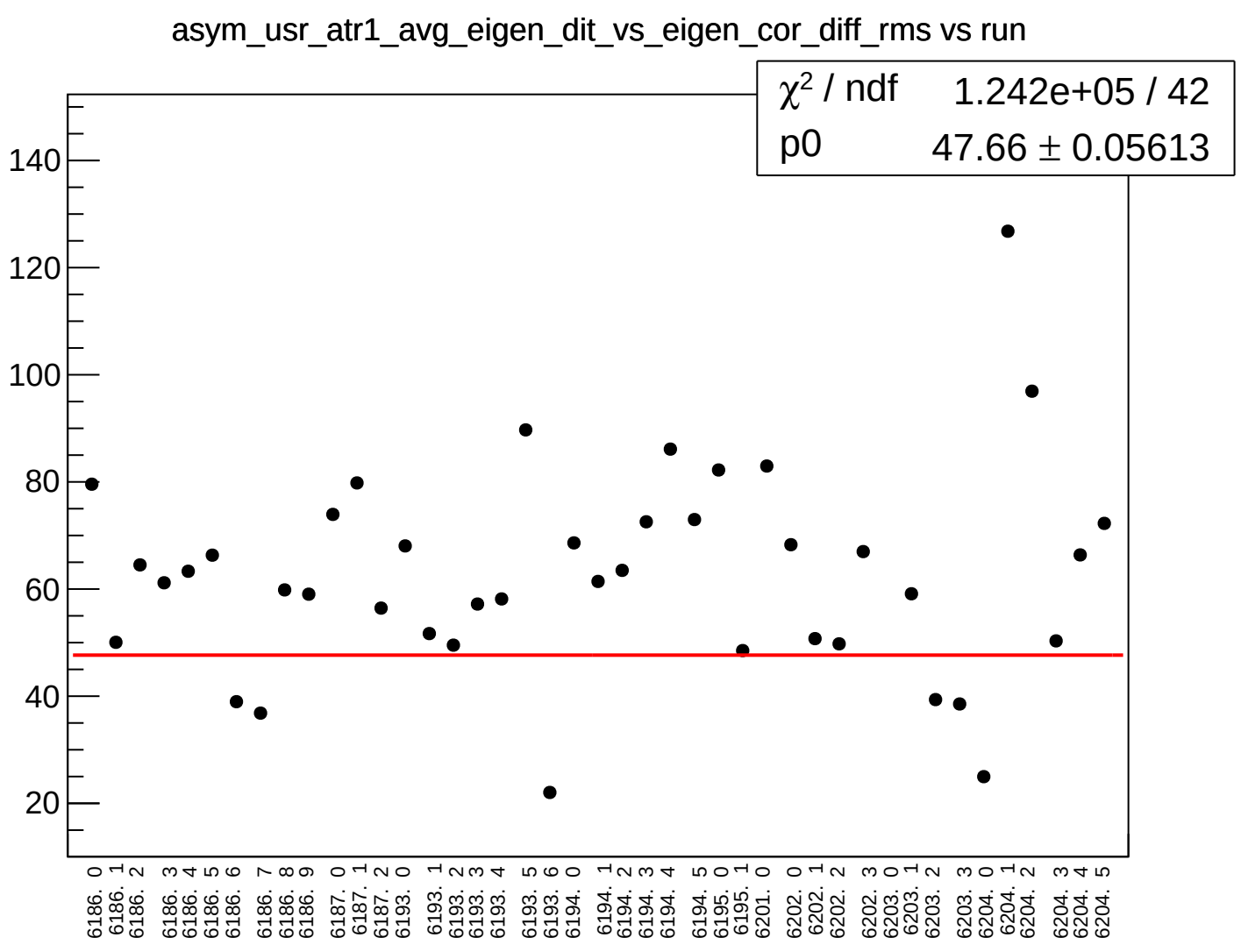
asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run

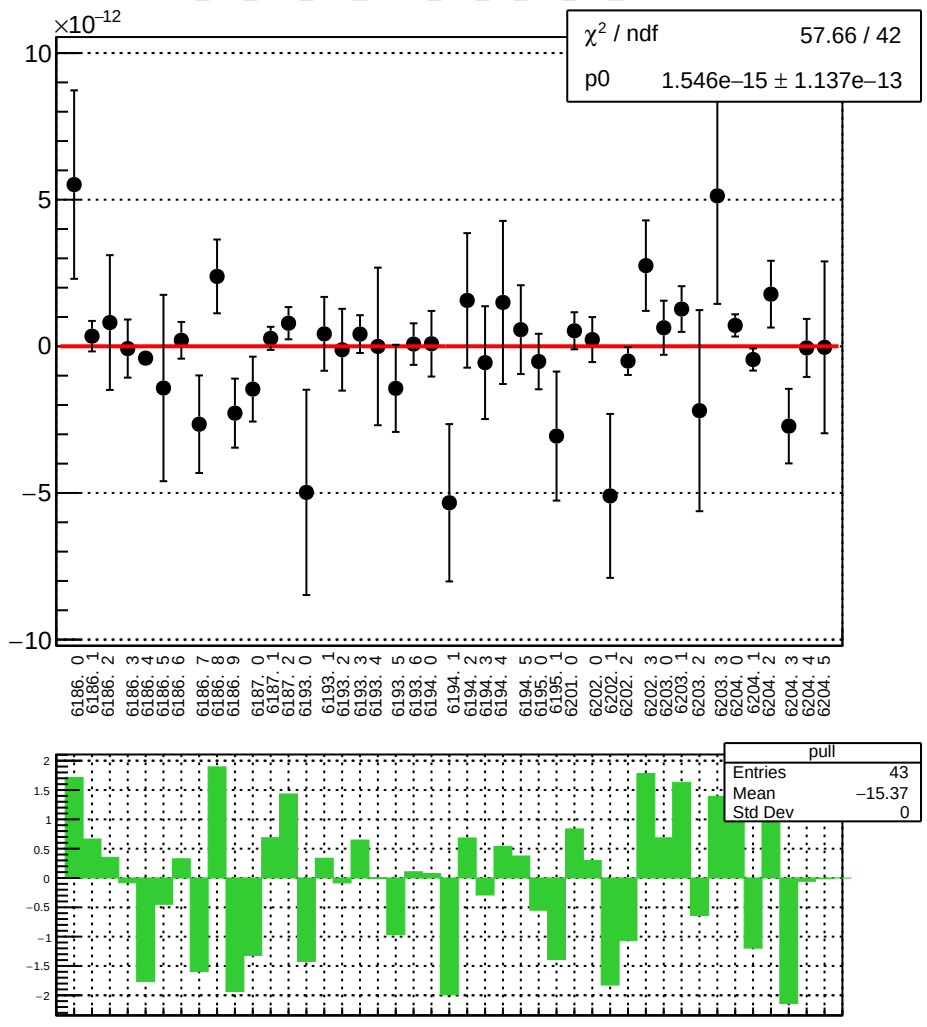


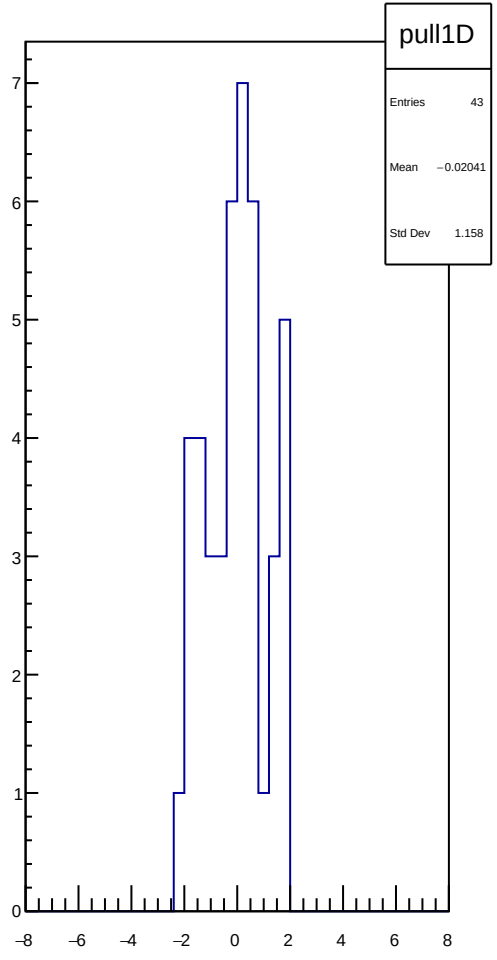


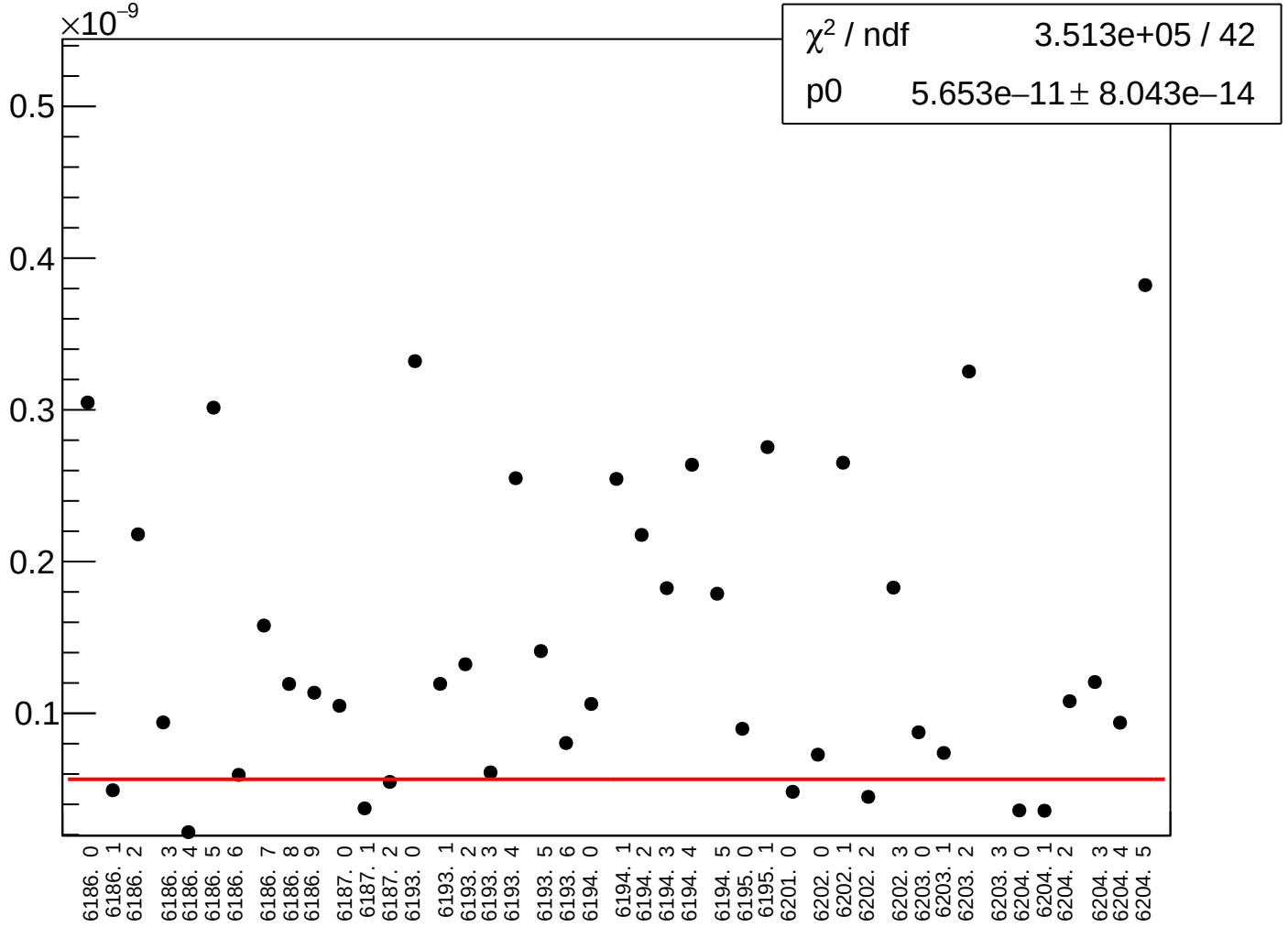

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.242e+05 / 42
p0 47.66 ± 0.05613
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

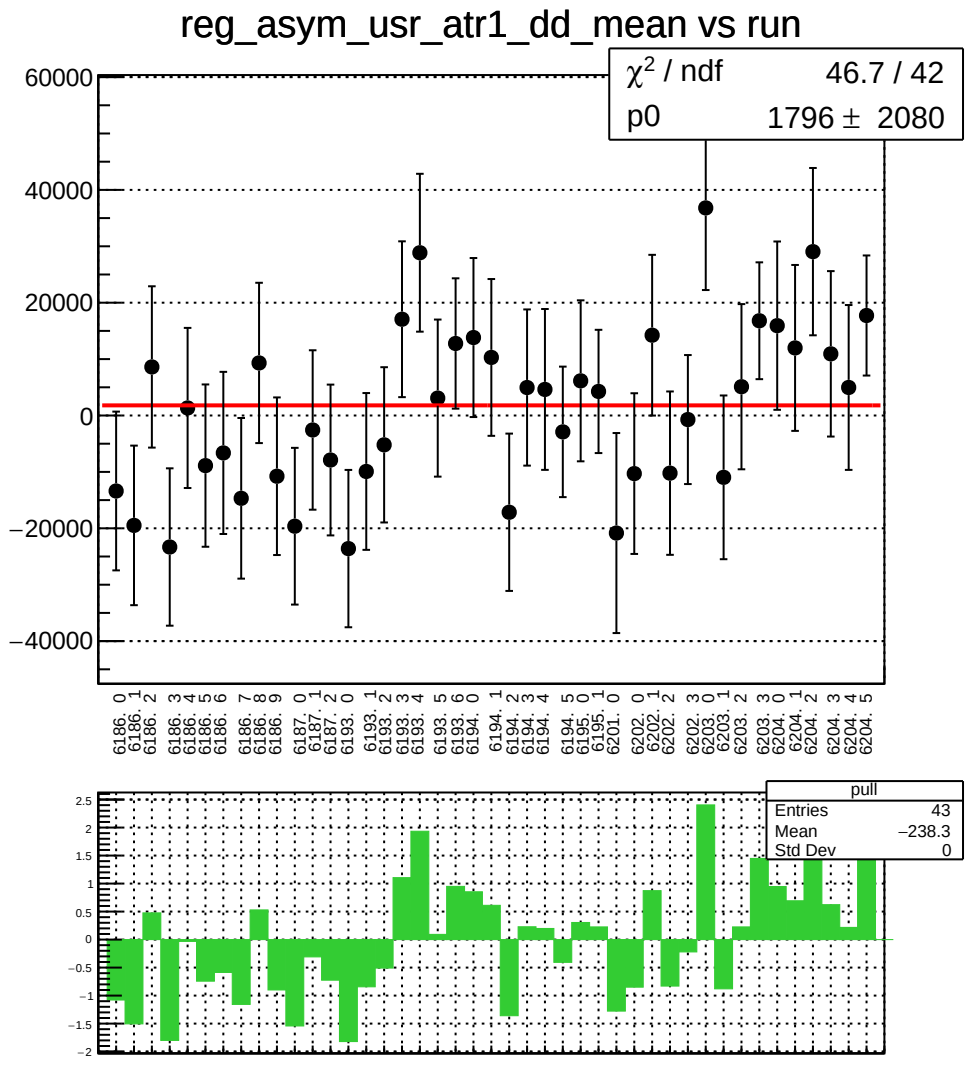

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.61 / 42
p0 0.05876 ± 0.07938
pull
Entries 43
Mean −20.23
Std Dev 0
pull1D
Entries 43
Mean 0.03377
Std Dev 1.007

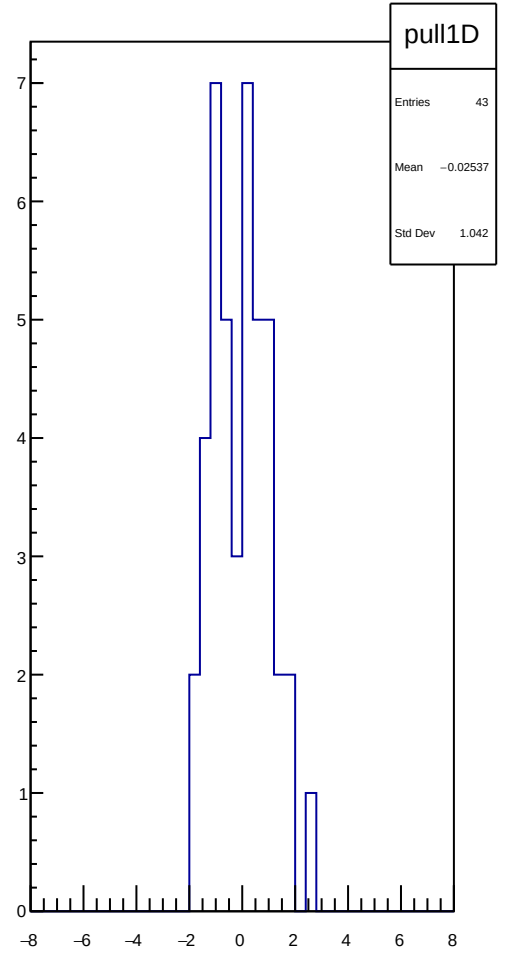

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.242e+05 / 42
p0 47.66 ± 0.05613
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

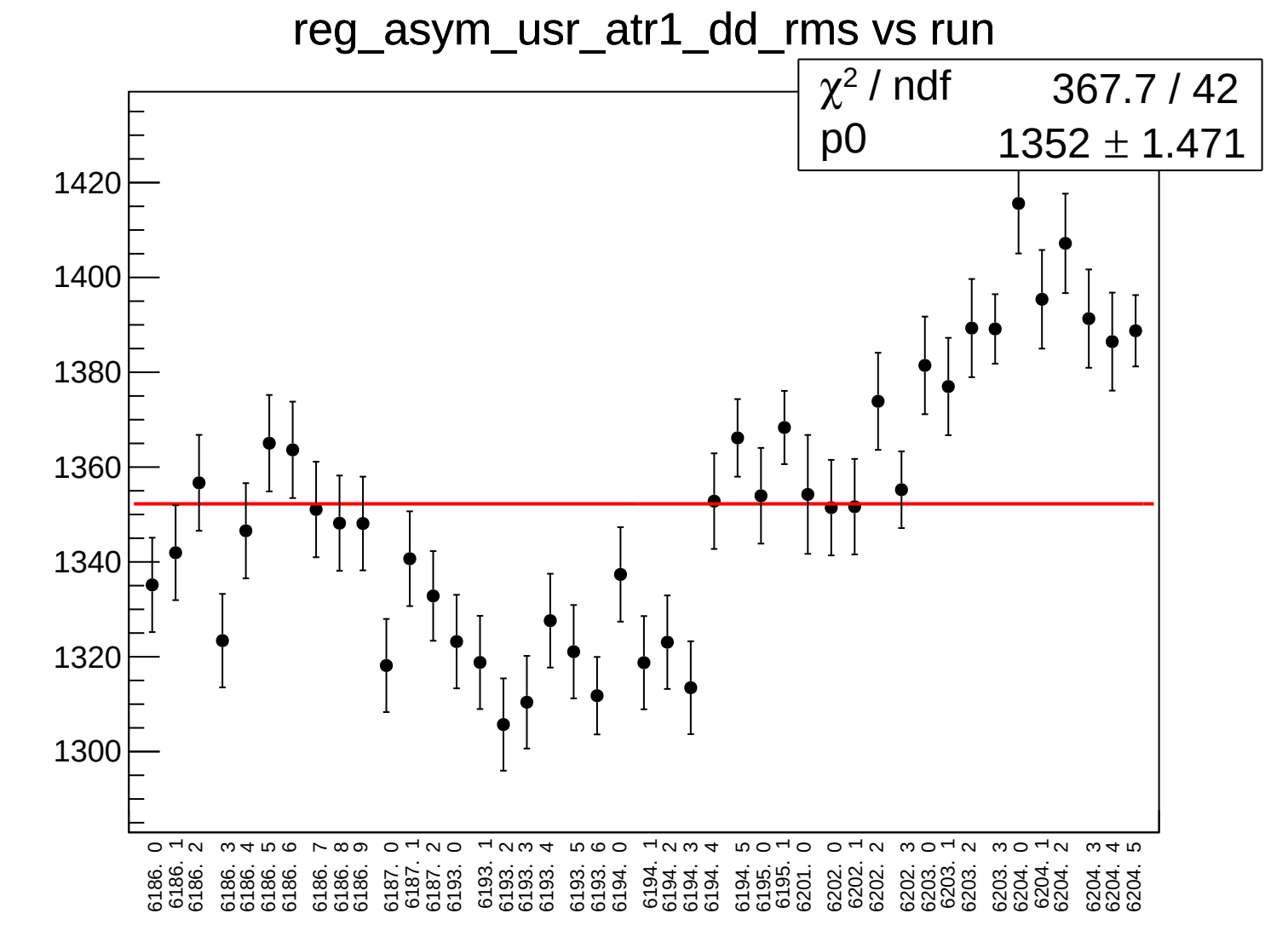

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 57.66 / 42
p0 1.546e−15 ± 1.137e−13
pull
Entries 43
Mean −15.37
Std Dev 0

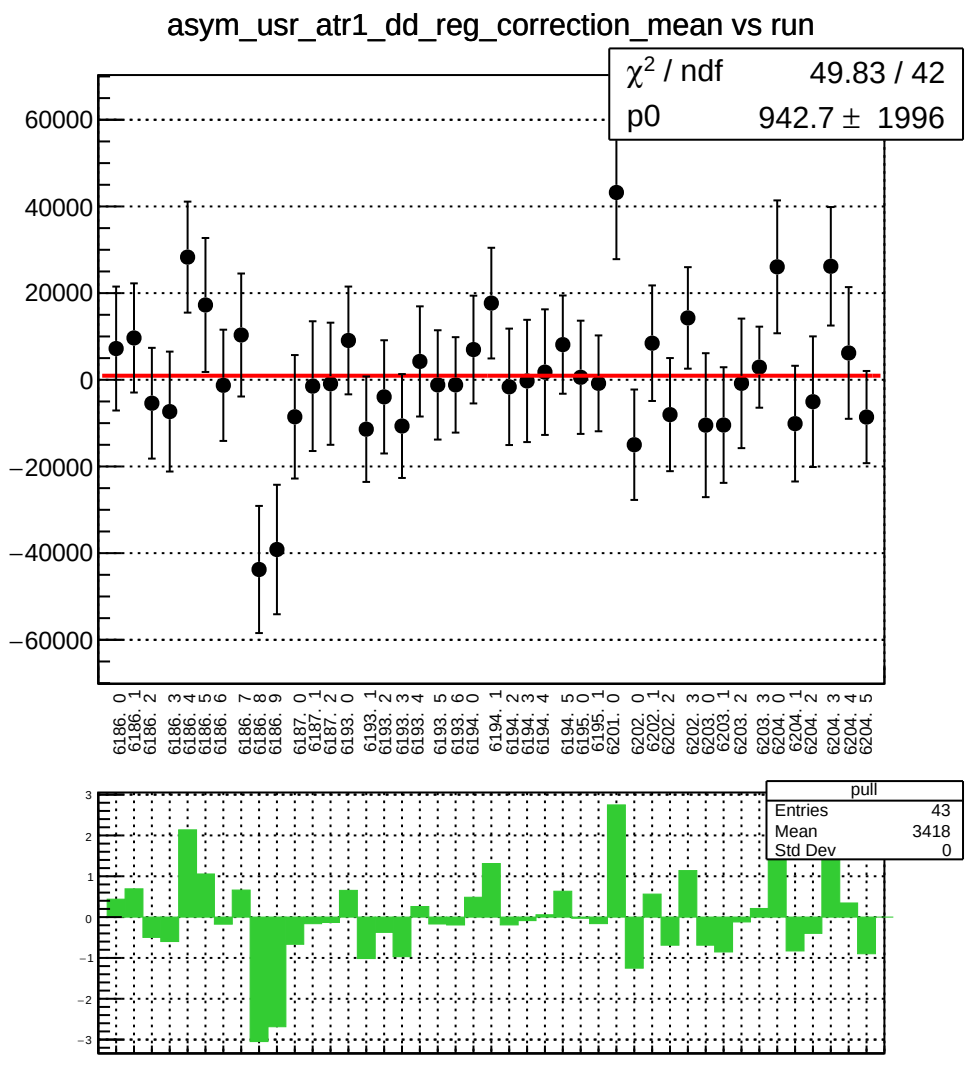

pull1D
Entries 43
Mean −0.02041
Std Dev 1.158

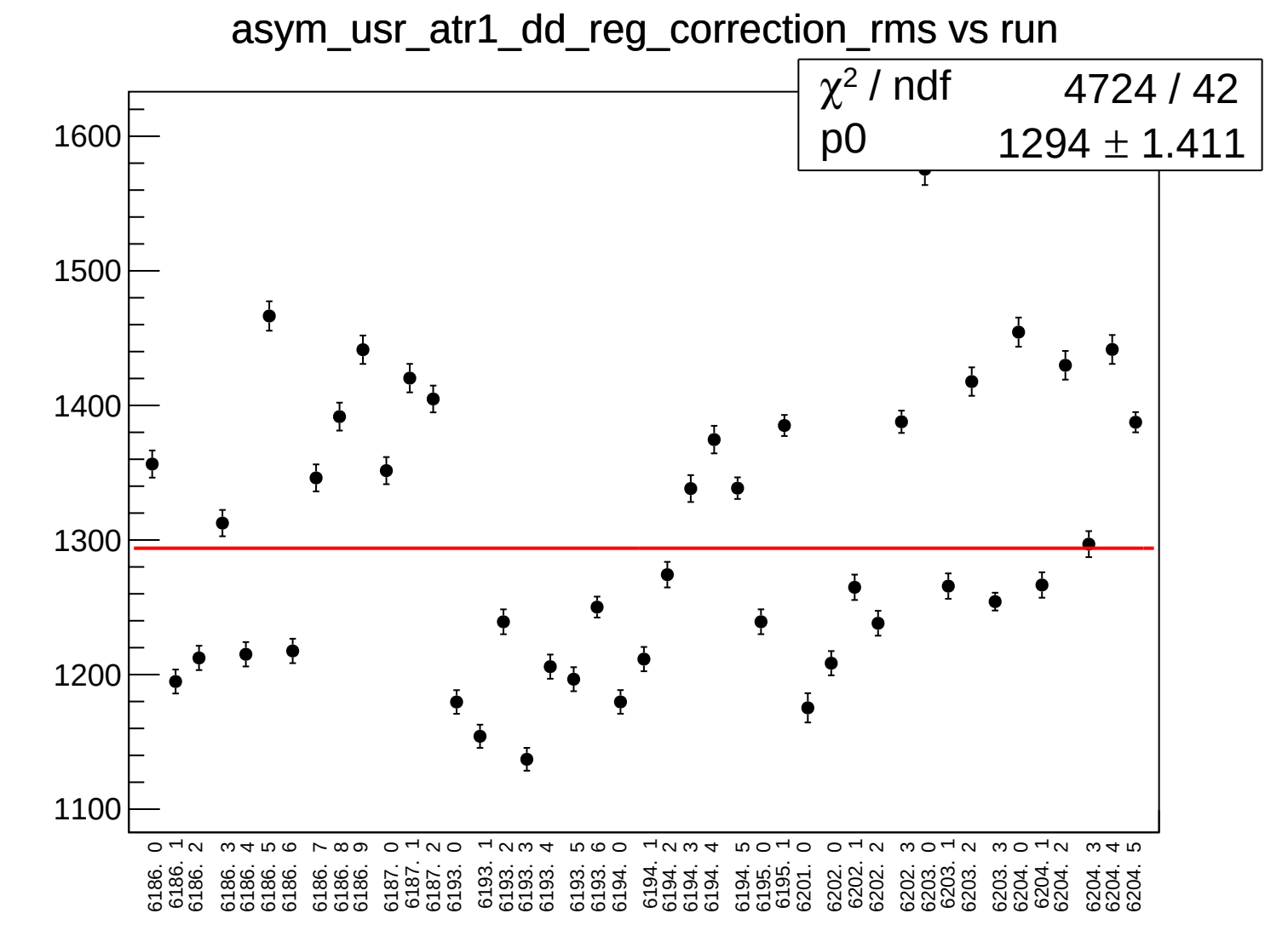

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.513e+05 / 42
p0 5.653e−11 ± 8.043e−14
0.5
0.4
0.3
0.2
0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

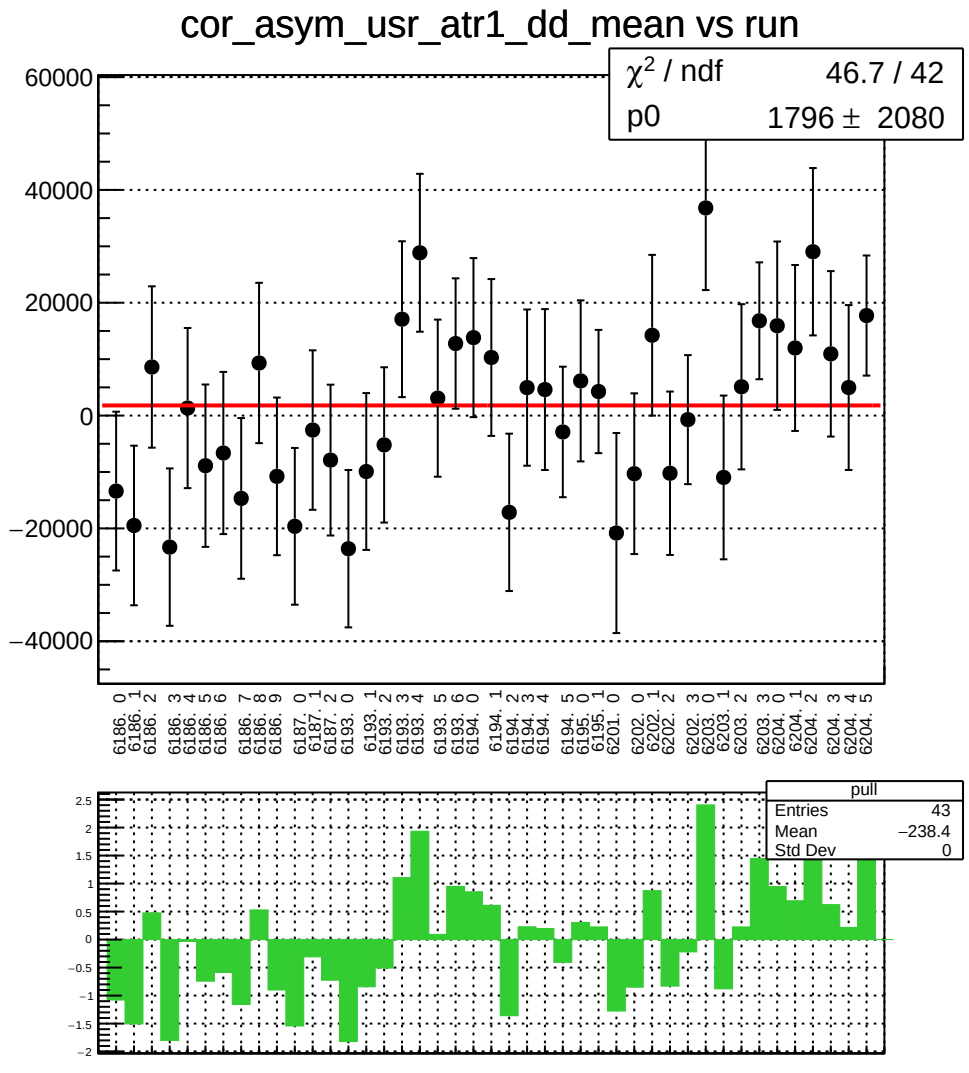

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 46.7 / 42
p0 1796 ± 2080
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −238.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

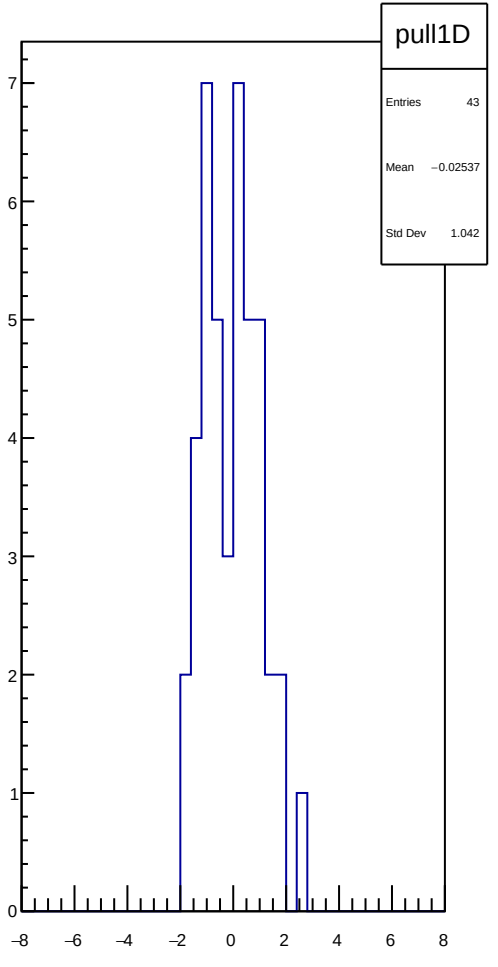

pull1D
Entries 43
Mean −0.02537
Std Dev 1.042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

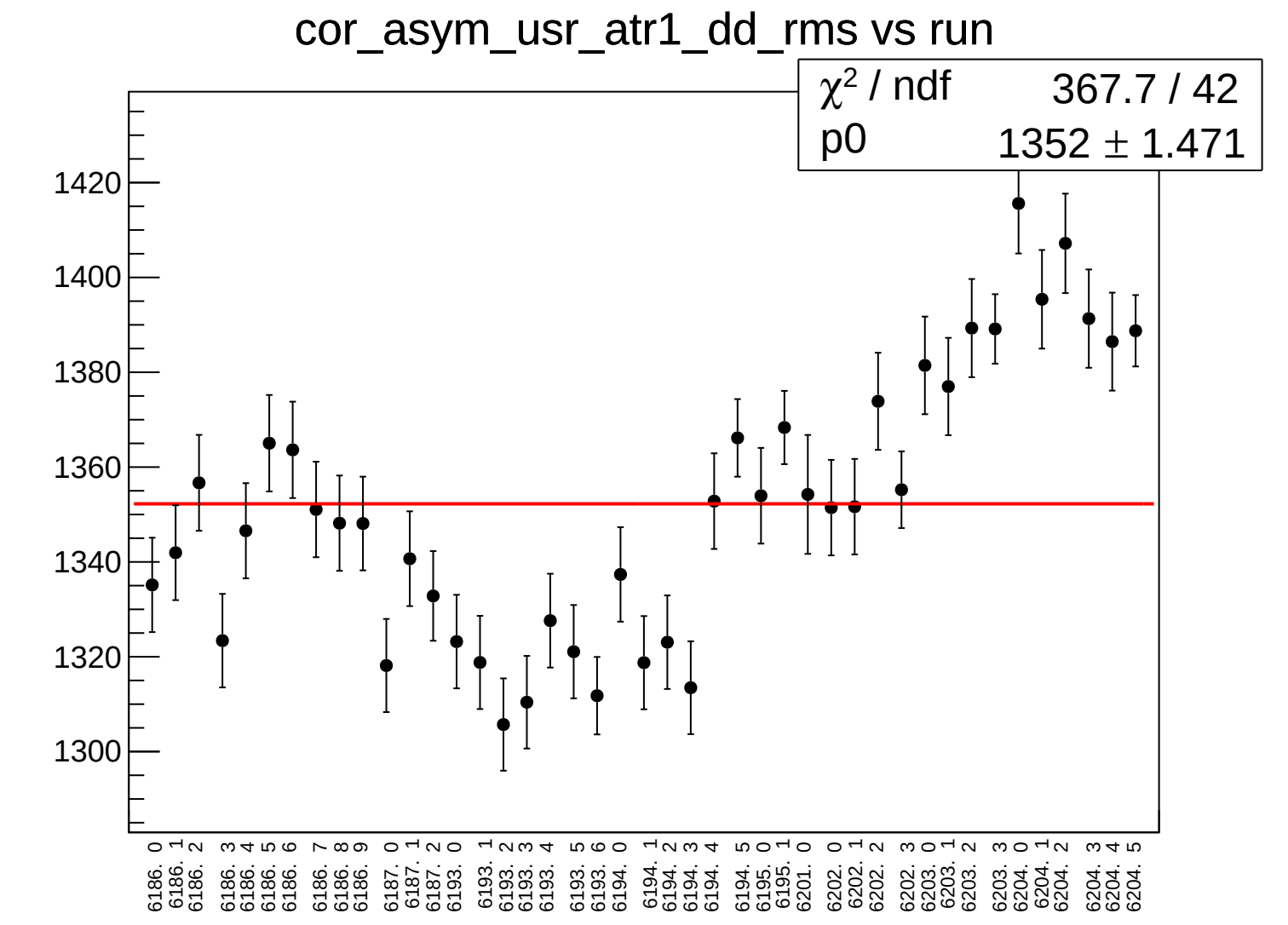

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 367.7 / 42
p0 1352 ± 1.471
1420
1400
1380
1360
1340
1320
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

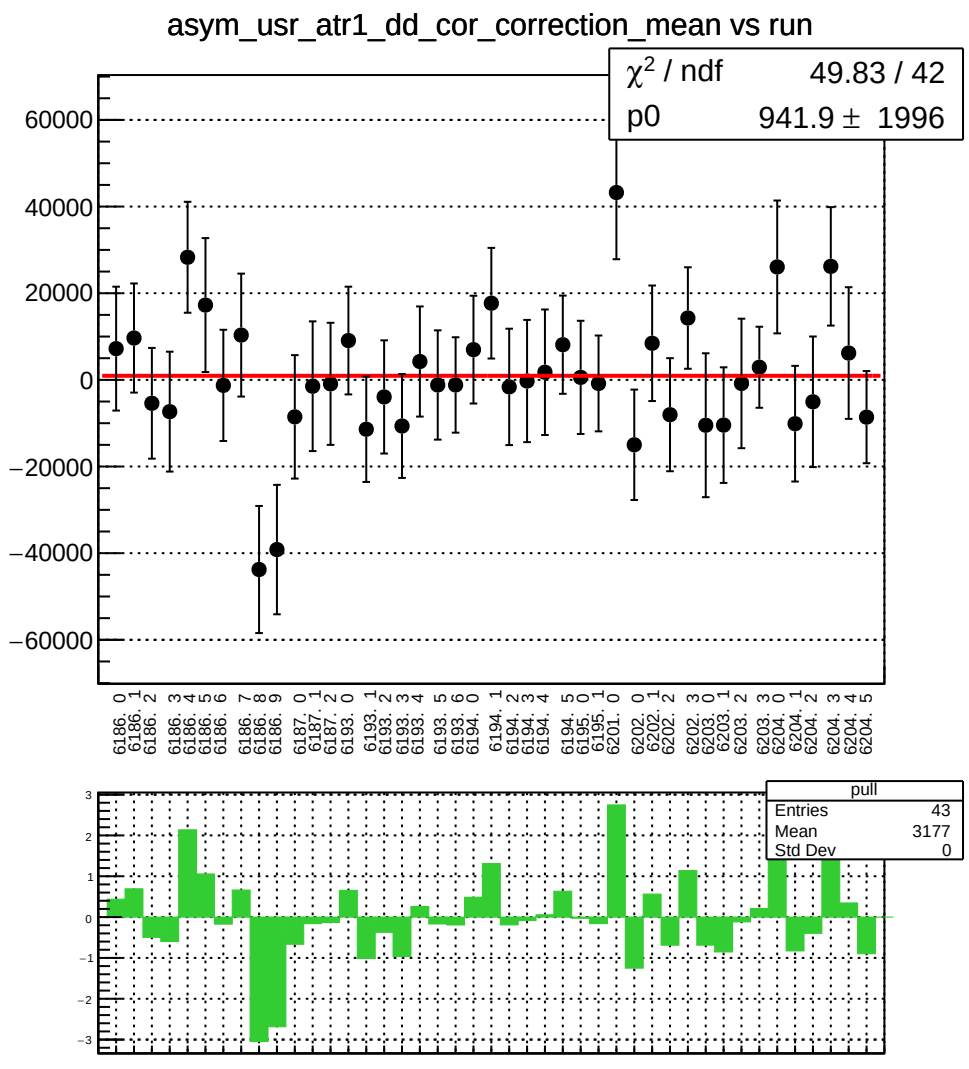

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 49.83 / 42
p0 942.7 ± 1996
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 3418
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.0004041
Std Dev 1.076
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

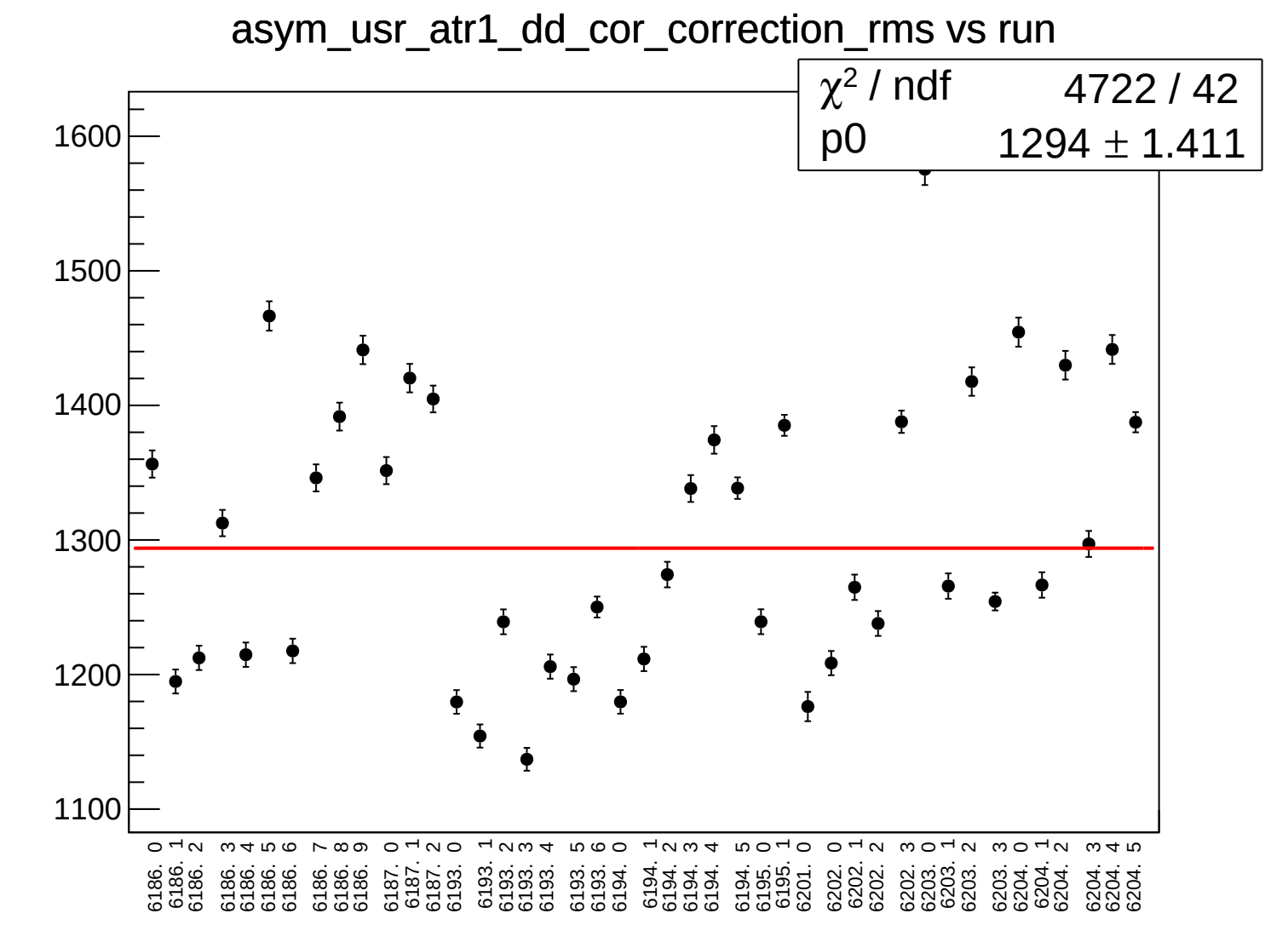

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 4724 / 42
p0 1294 ± 1.411
1600
1500
1400
1300
1200
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 46.7 / 42
p0 1796 ± 2080
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −238.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.02537
Std Dev 1.042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 367.7 / 42
p0 1352 ± 1.471
1420
1400
1380
1360
1340
1320
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 49.83 / 42
p0 941.9 ± 1996
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 3177
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.0004349
Std Dev 1.076
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 4722 / 42
p0 1294 ± 1.411
1600
1500
1400
1300
1200
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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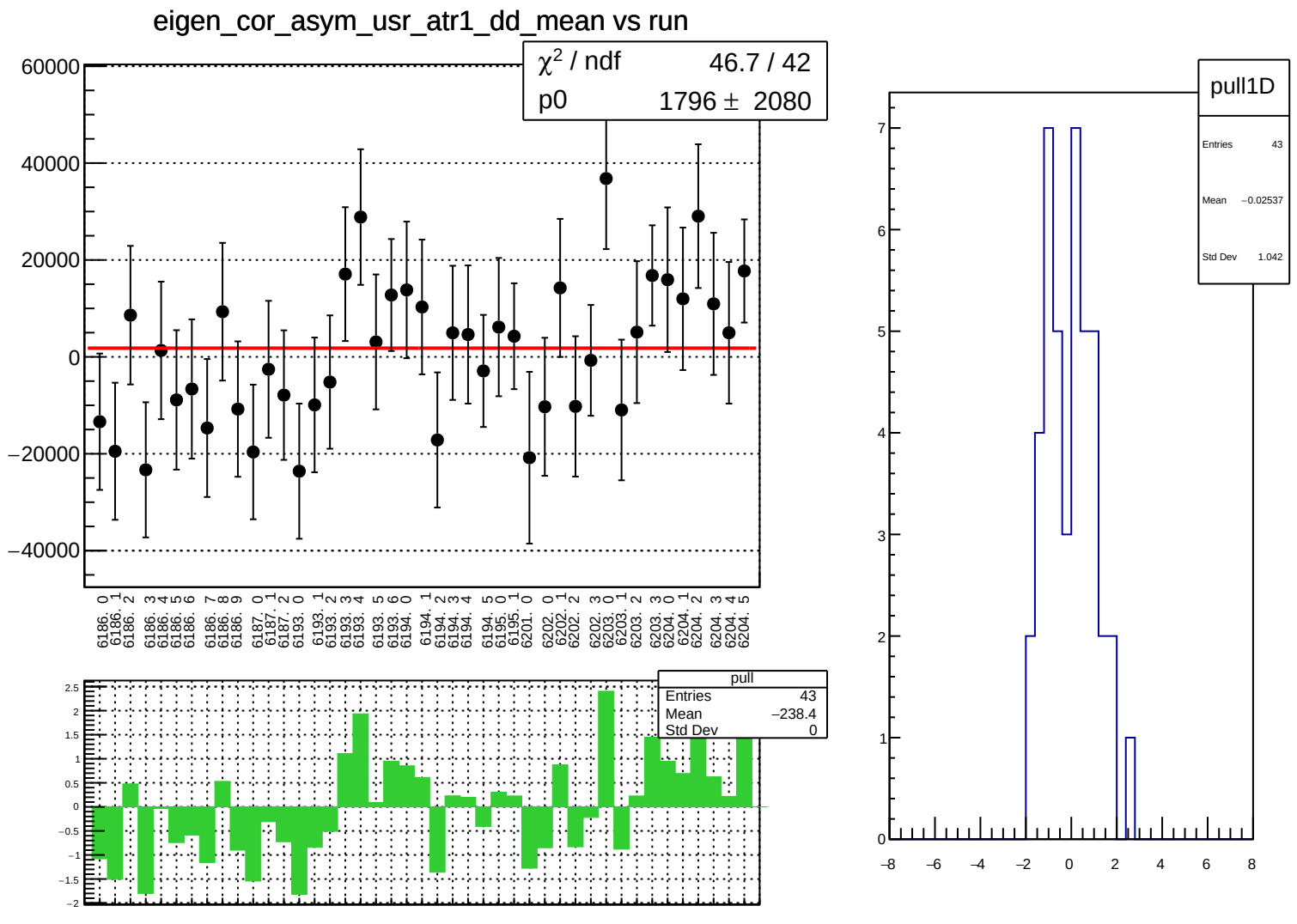
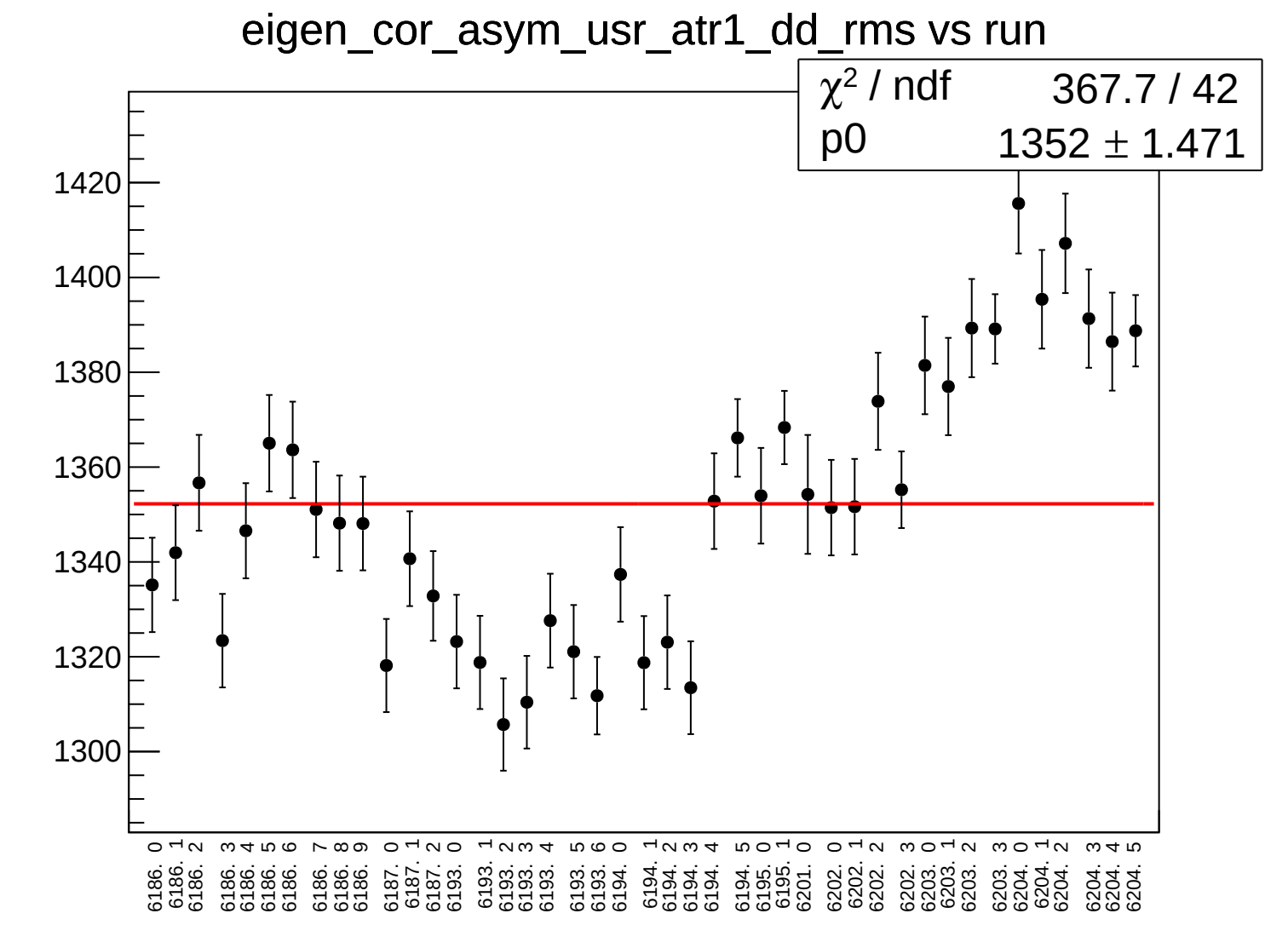
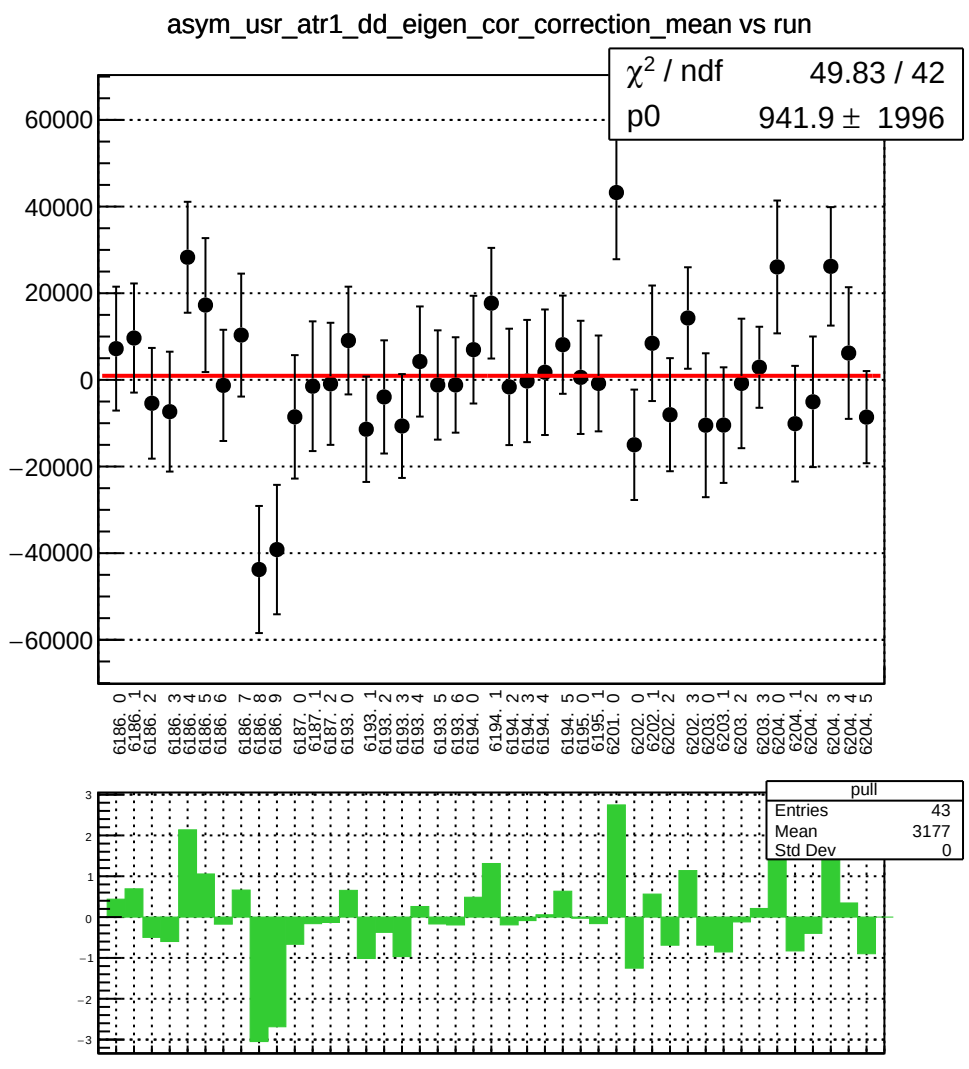
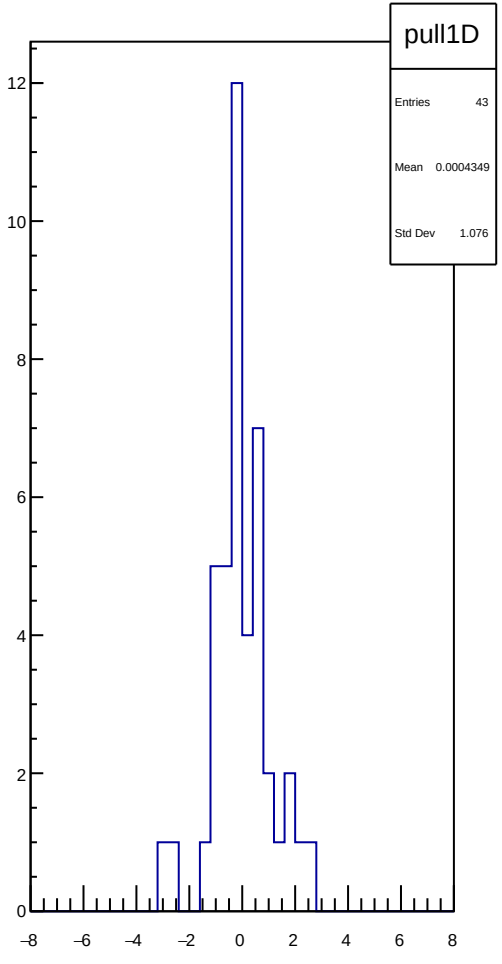
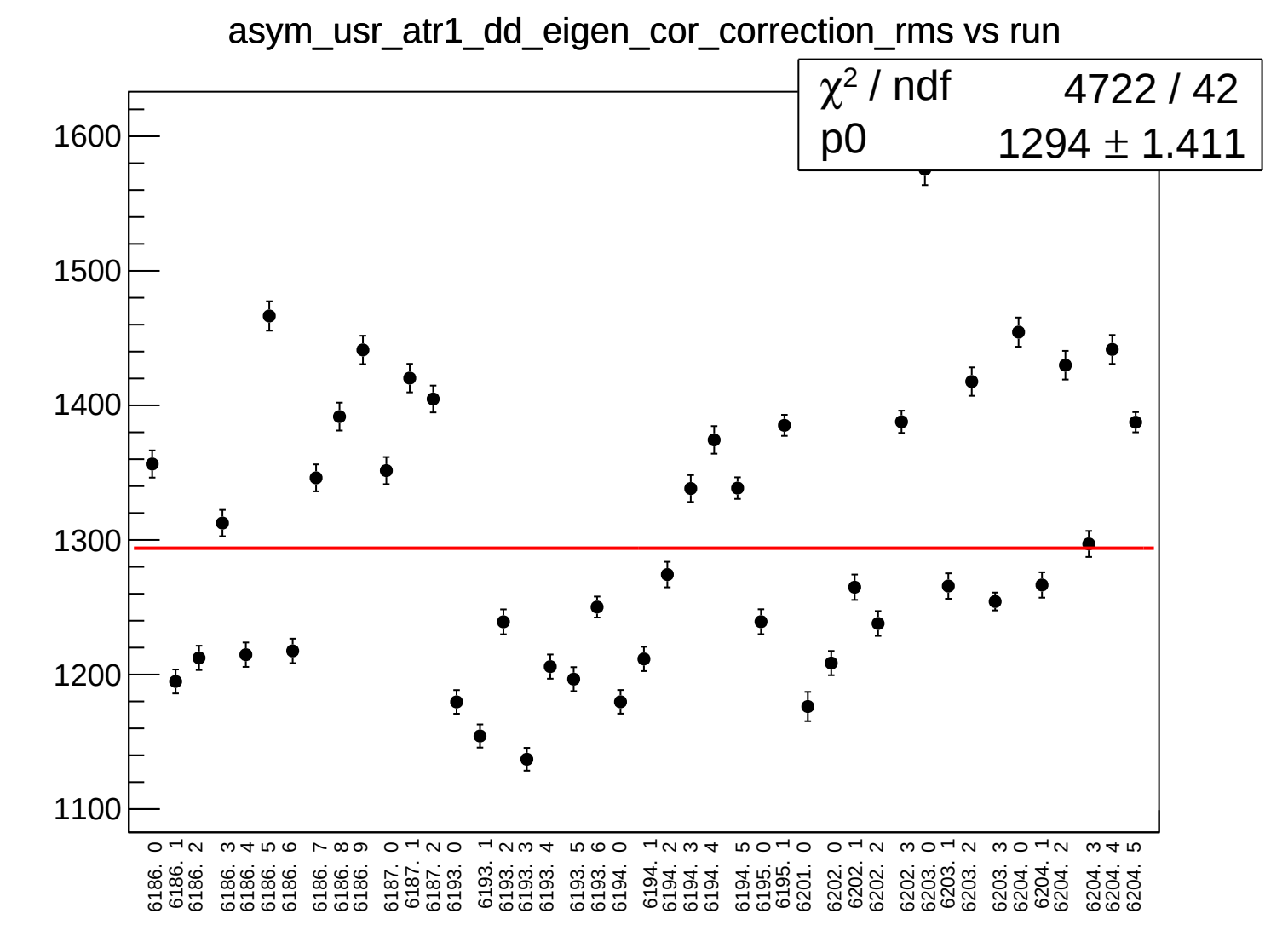
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

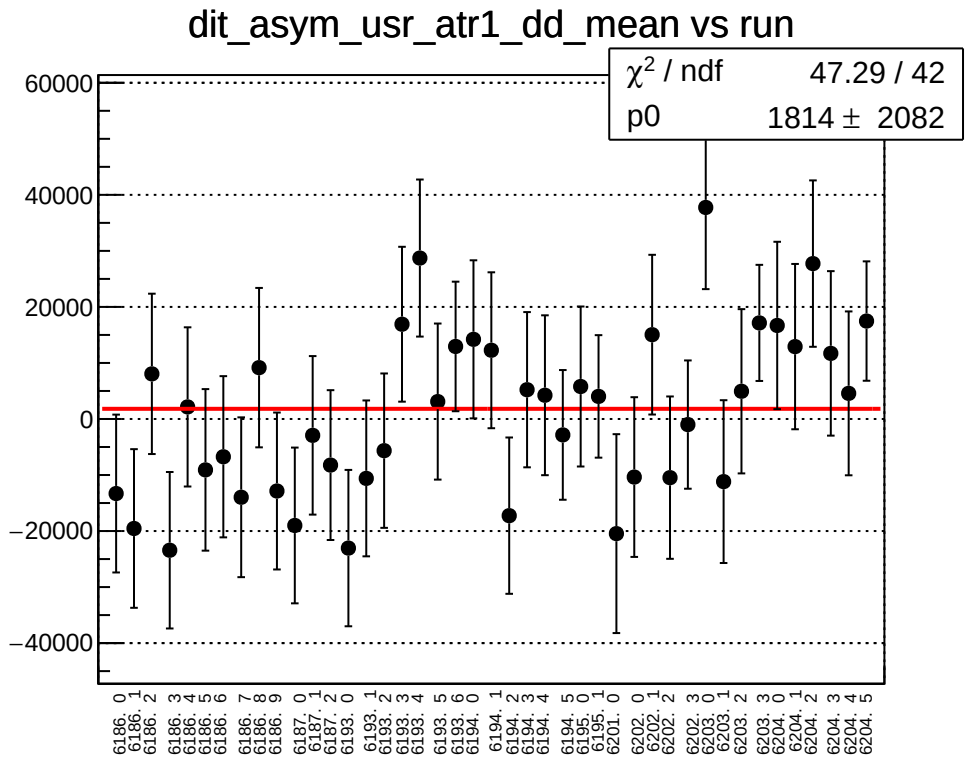

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 46.7 / 42
p0 1796 ± 2080
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −238.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.02537
Std Dev 1.042
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

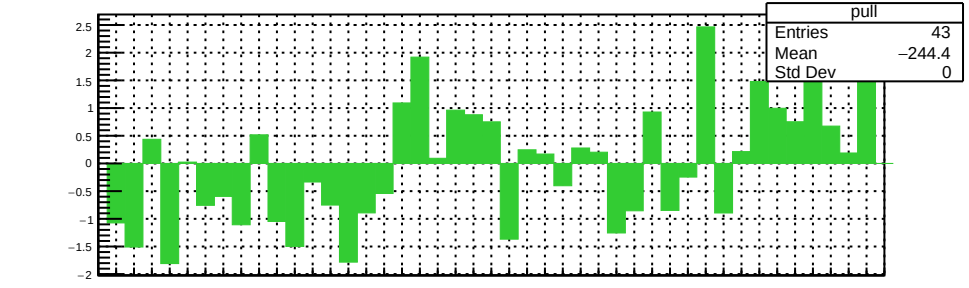

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 367.7 / 42
p0 1352 ± 1.471
1420
1400
1380
1360
1340
1320
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

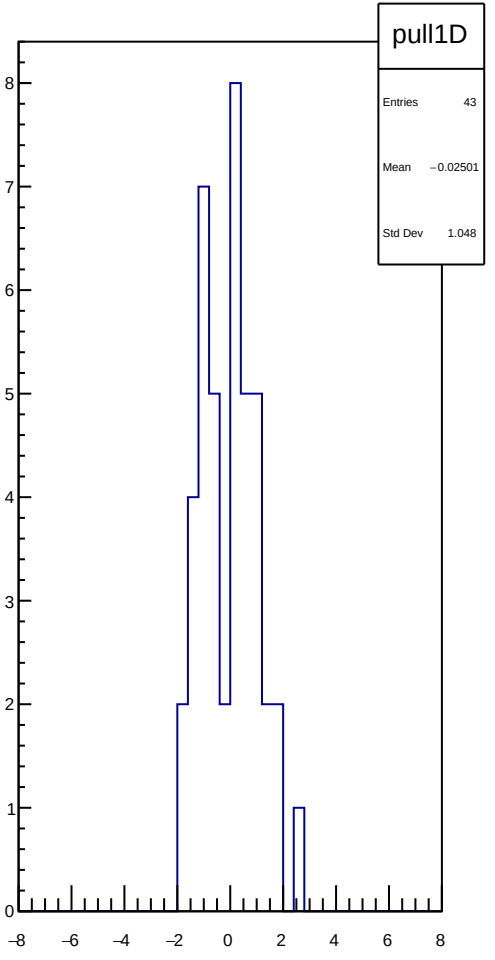

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 49.83 / 42
p0 941.9 ± 1996
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 3177
Std Dev 0
3
2
1
0
−1
−2
−3

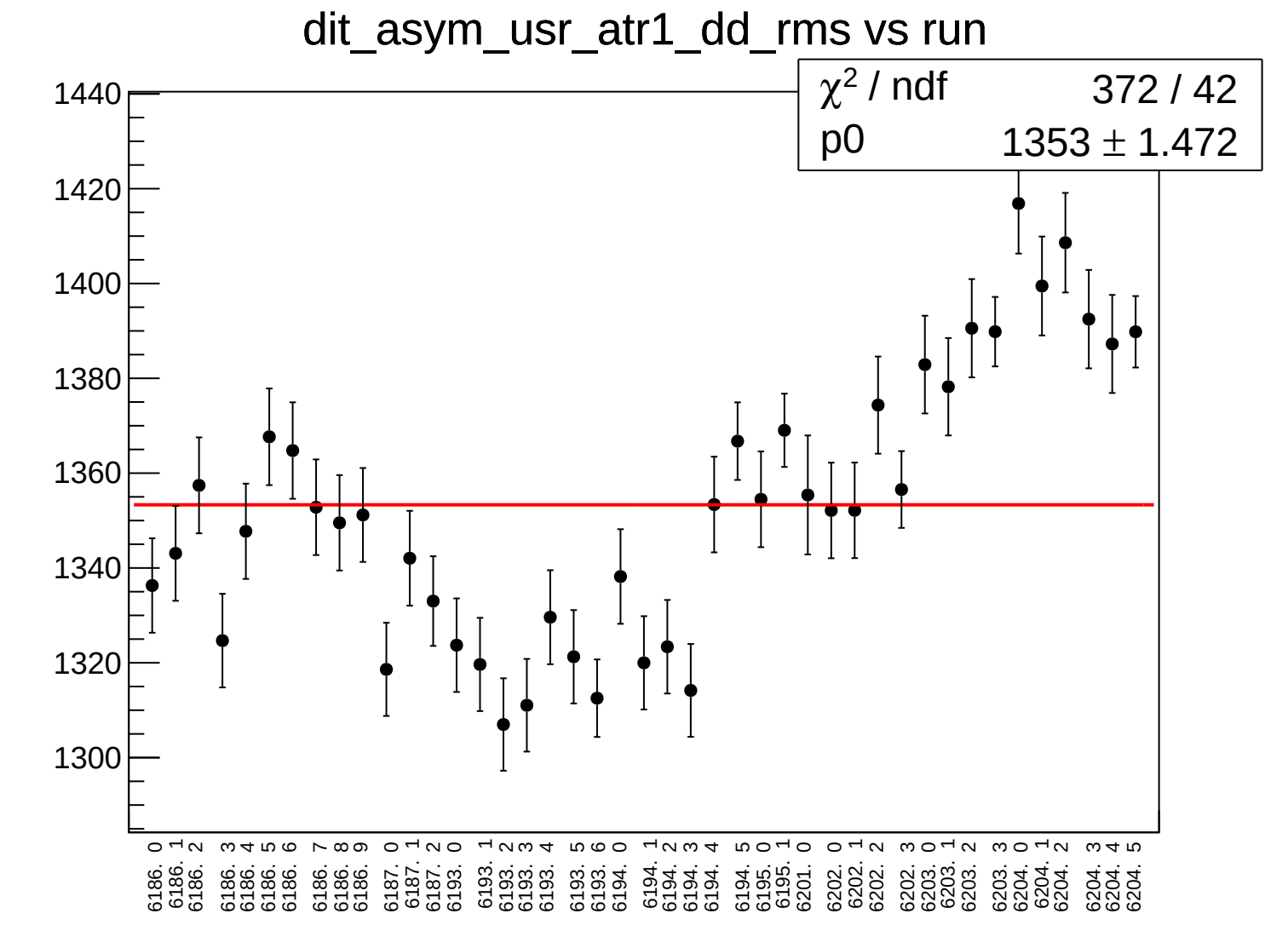

pull1D
Entries 43
Mean 0.0004349
Std Dev 1.076
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

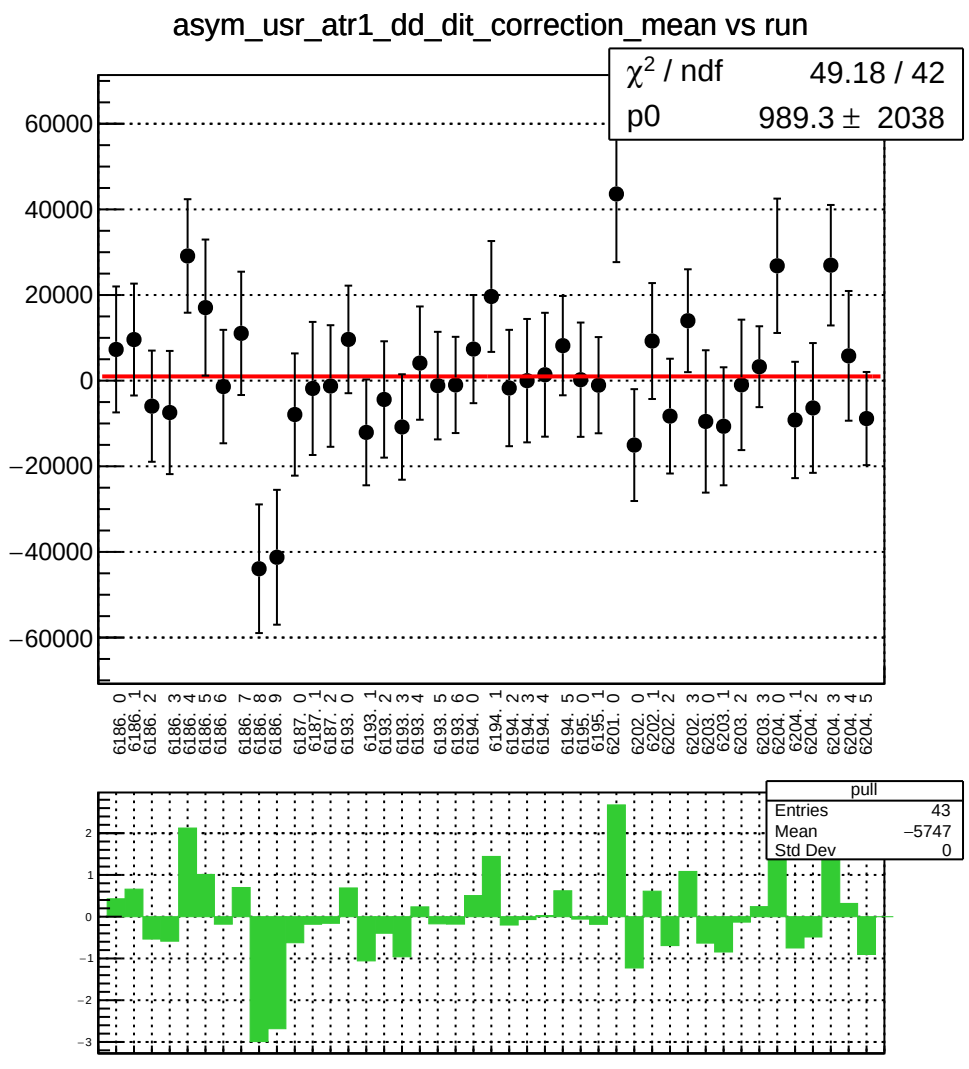

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4722 / 42
p0 1294 ± 1.411
1600
1500
1400
1300
1200
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

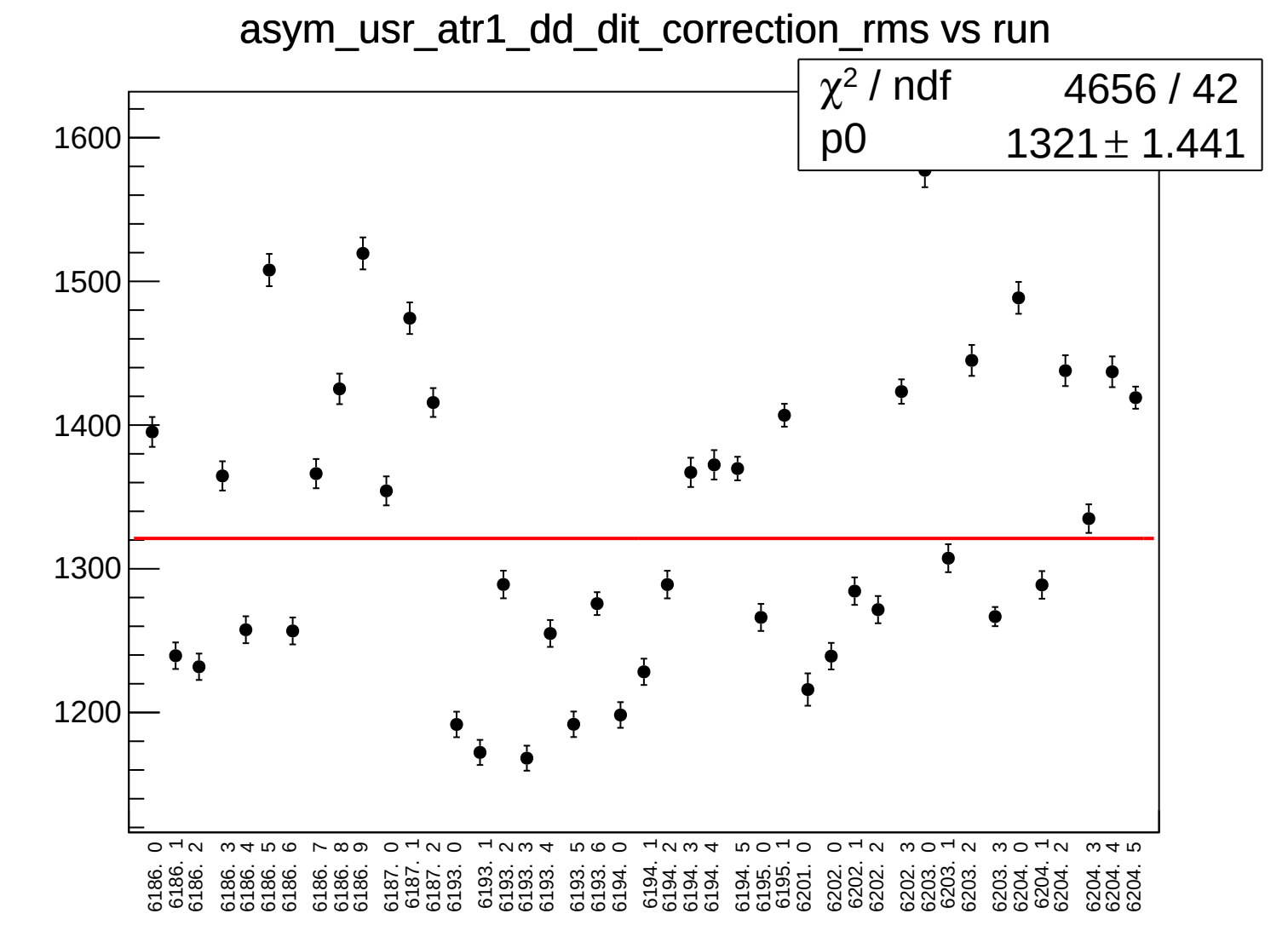

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 47.29 / 42
p0 1814 ± 2082
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

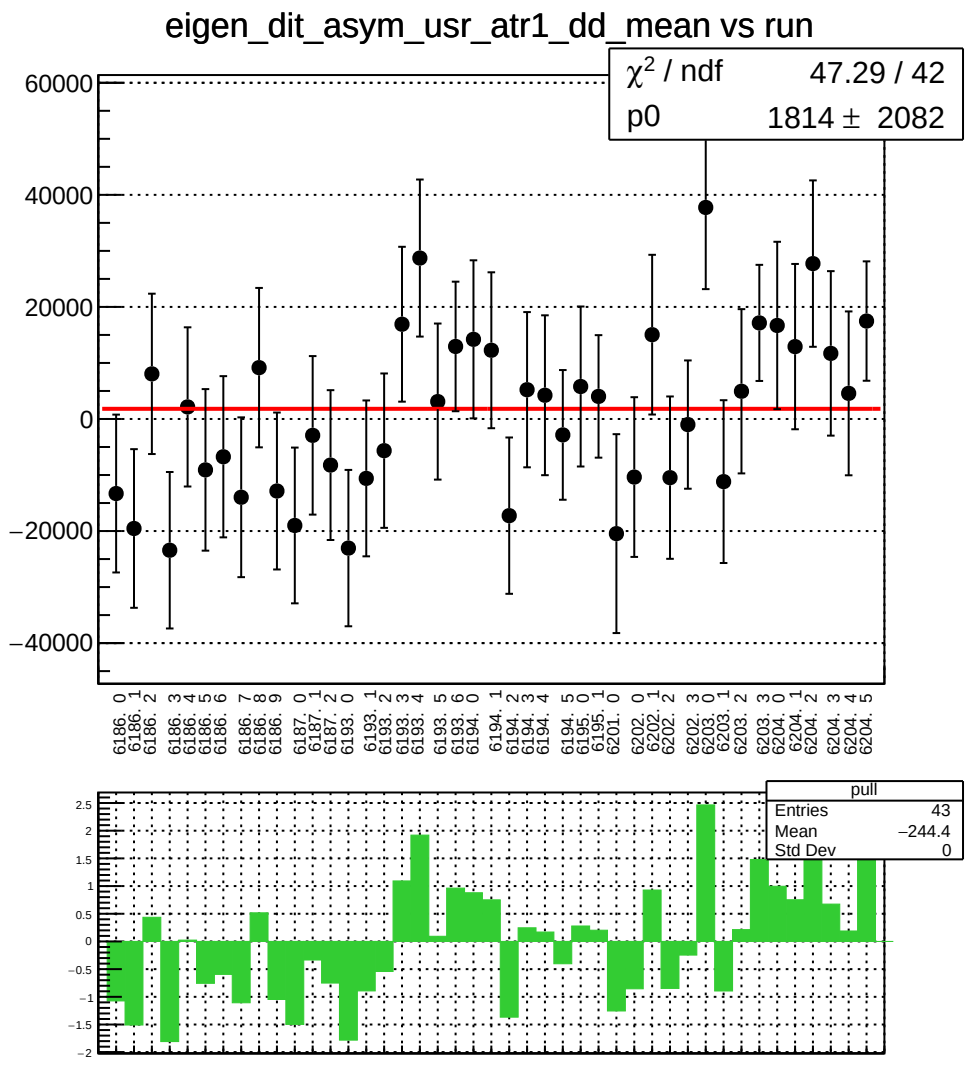

pull
Entries 43
Mean −244.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

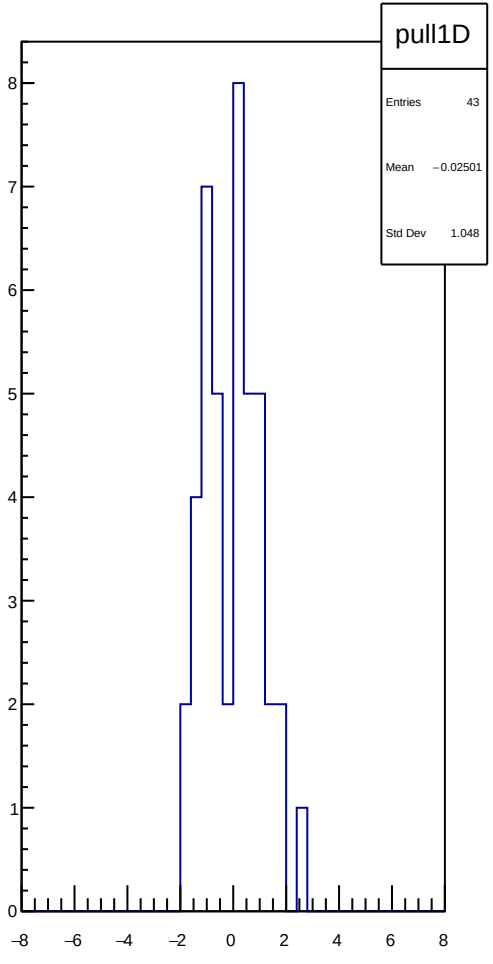

pull1D
Entries 43
Mean −0.02501
Std Dev 1.048
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

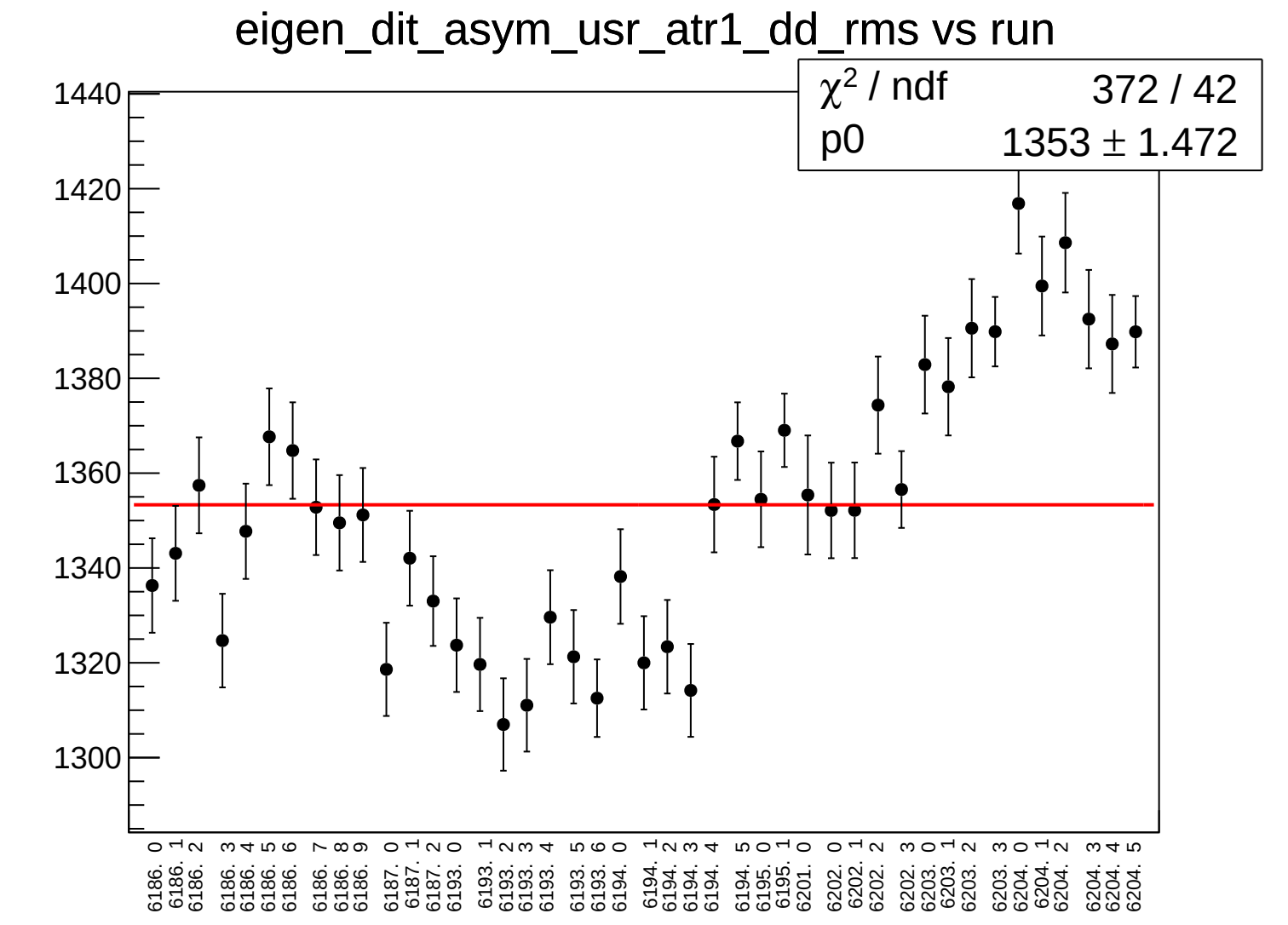

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 372 / 42
p0 1353 ± 1.472
1440
1420
1400
1380
1360
1340
1320
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

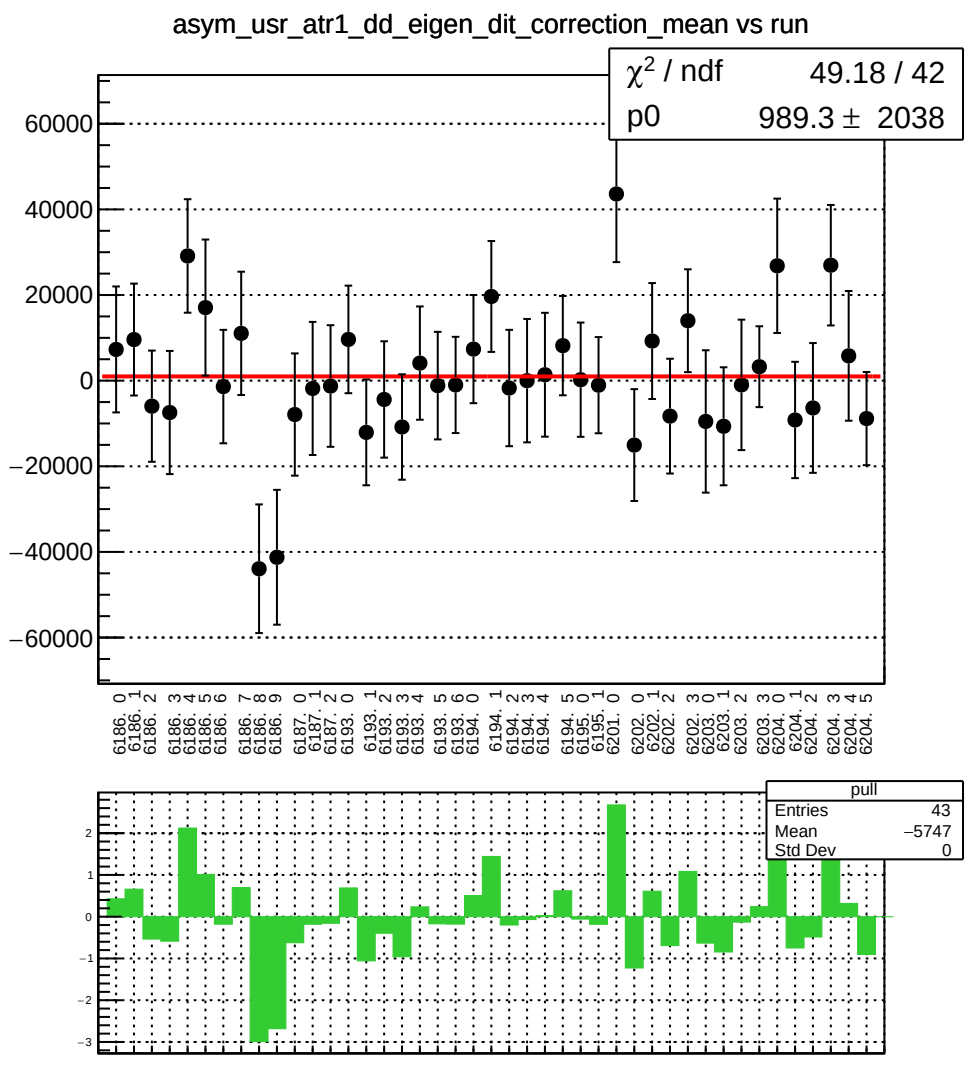

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 49.18 / 42
p0 989.3 ± 2038
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −5747
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.0002402
Std Dev 1.069
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

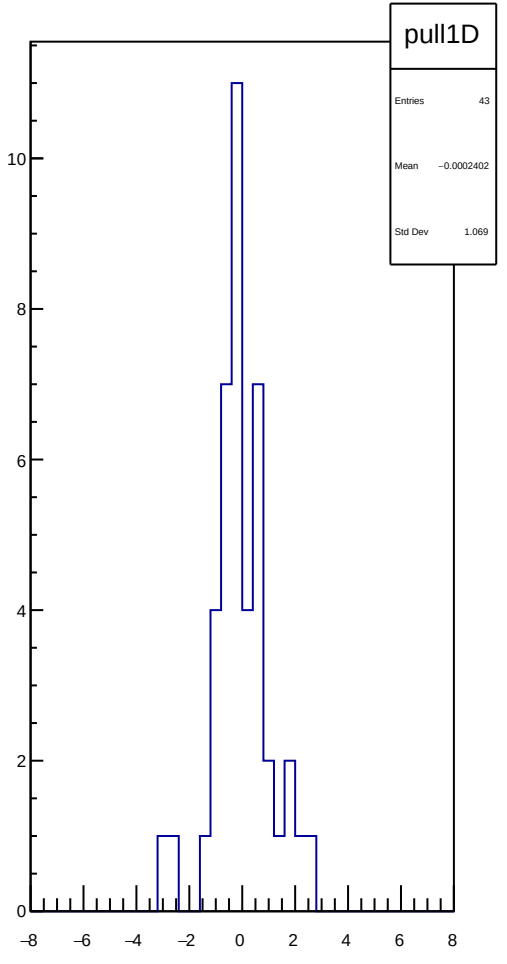

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 4656 / 42
p0 1321 ± 1.441
1600
1500
1400
1300
1200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

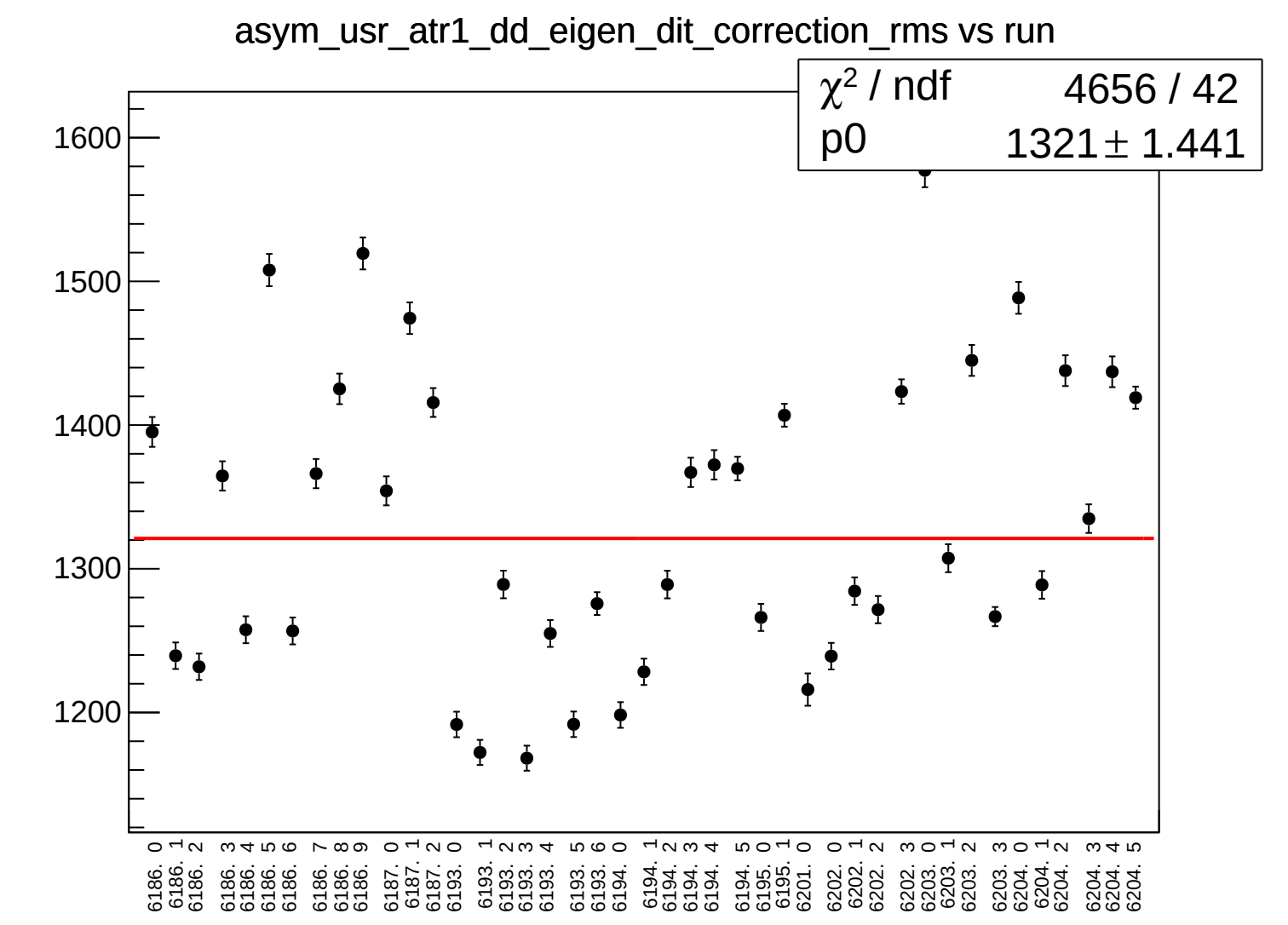

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 47.29 / 42
p0 1814 ± 2082
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −244.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

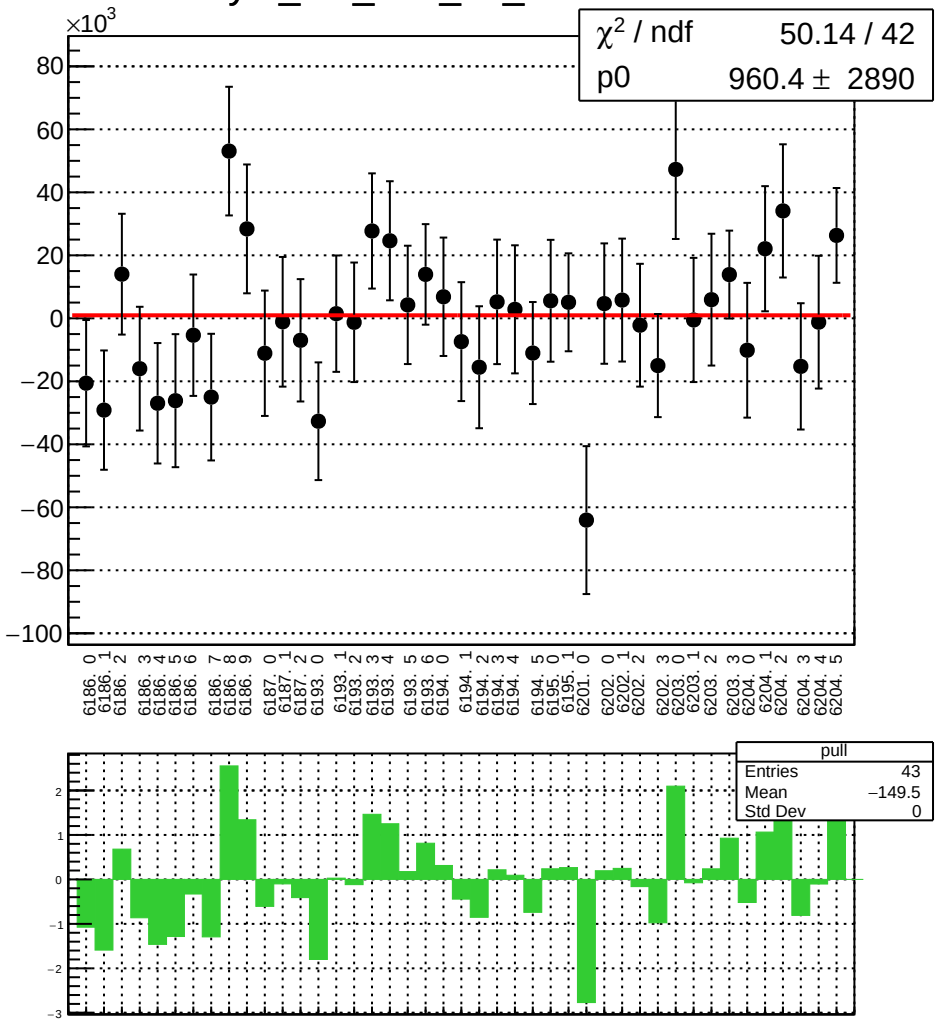

pull1D
Entries 43
Mean −0.02501
Std Dev 1.048
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

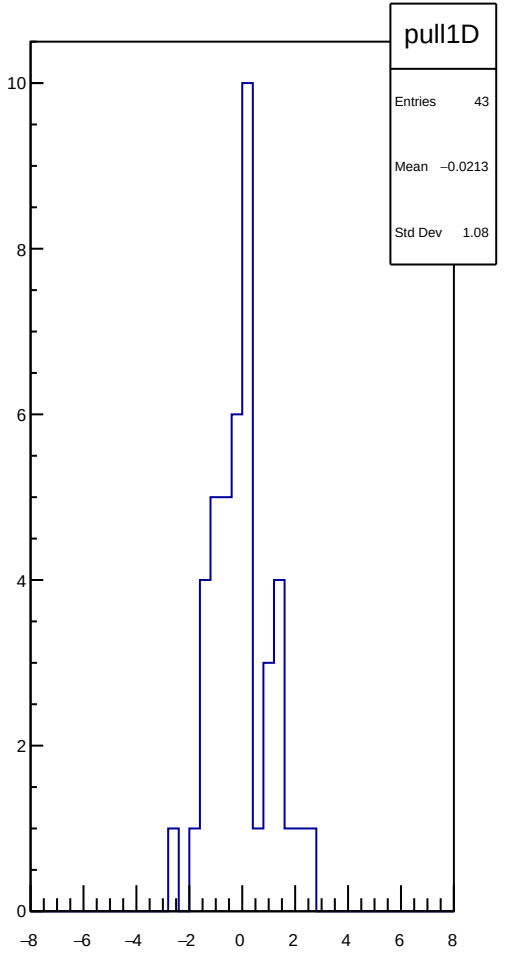

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 372 / 42
p0 1353 ± 1.472
1440
1420
1400
1380
1360
1340
1320
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

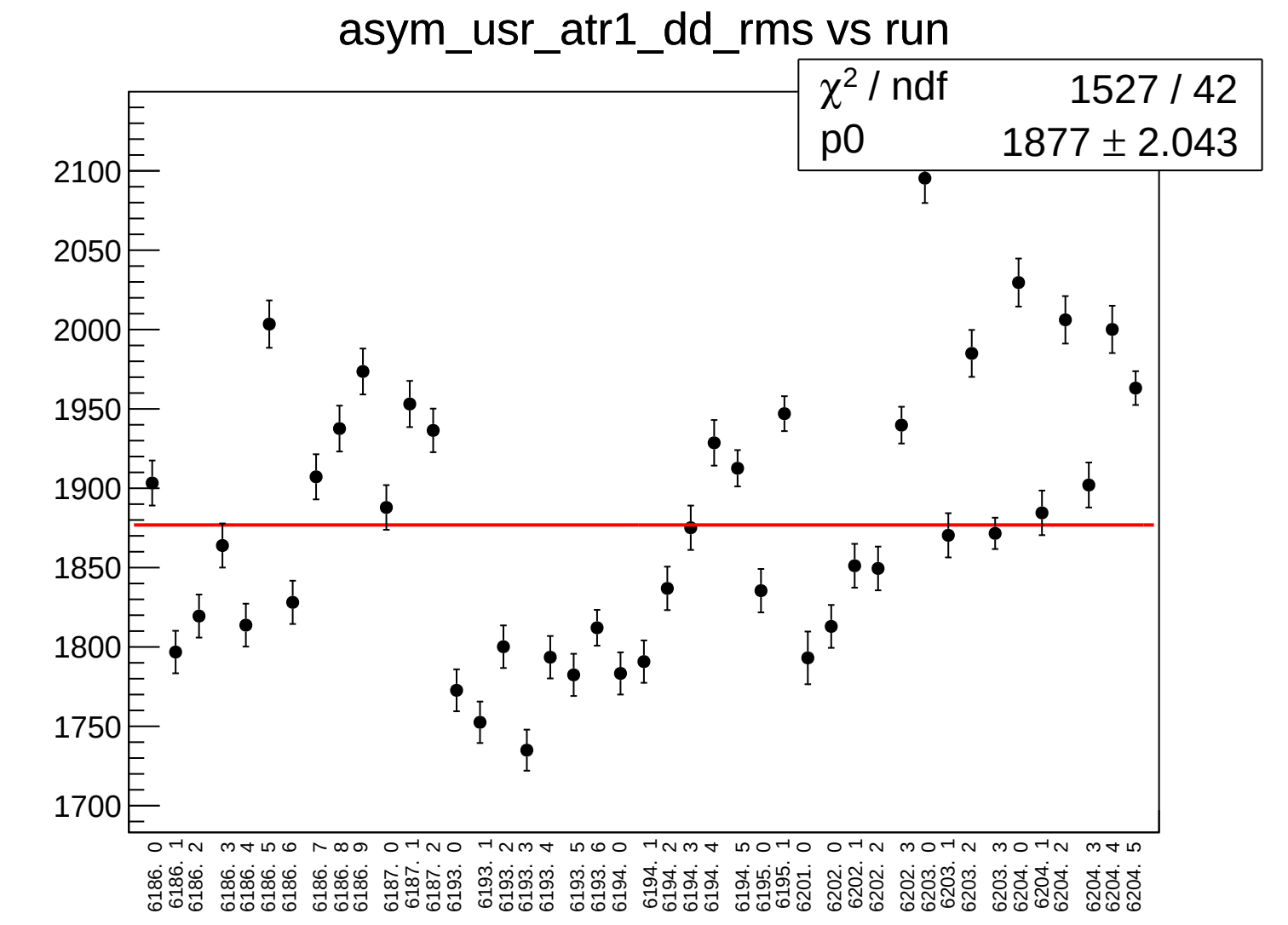

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 49.18 / 42
p0 989.3 ± 2038
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −5747
Std Dev 0
2
1
0
−1
−2
−3

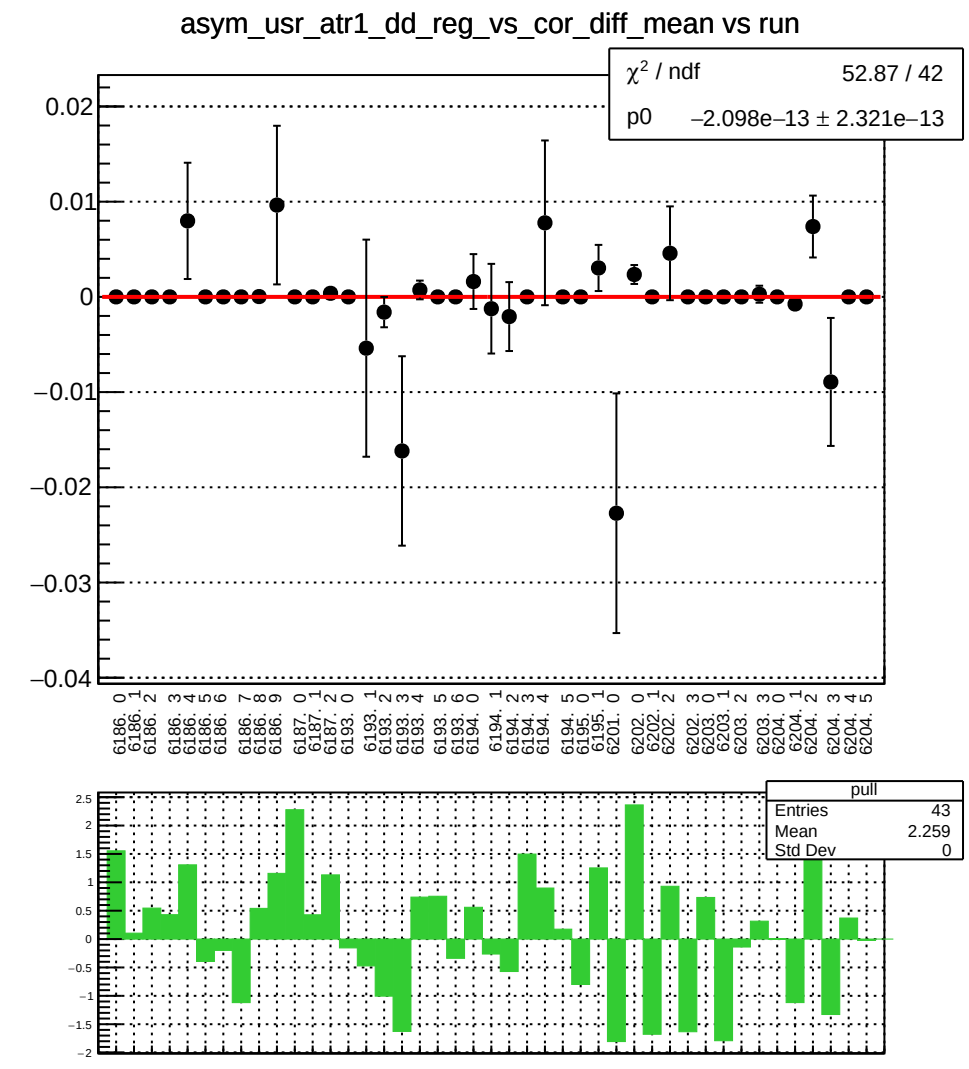

pull1D
Entries 43
Mean −0.0002402
Std Dev 1.069
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

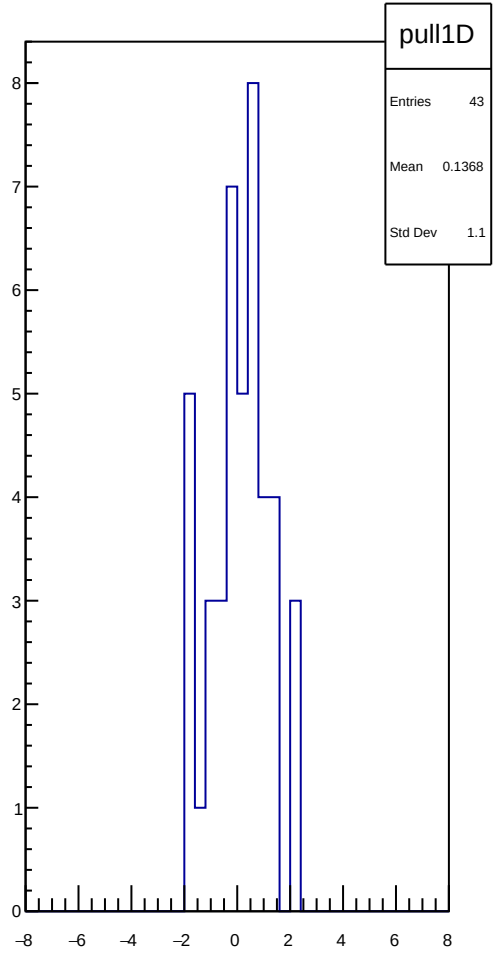

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4656 / 42
p0 1321 ± 1.441
1600
1500
1400
1300
1200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

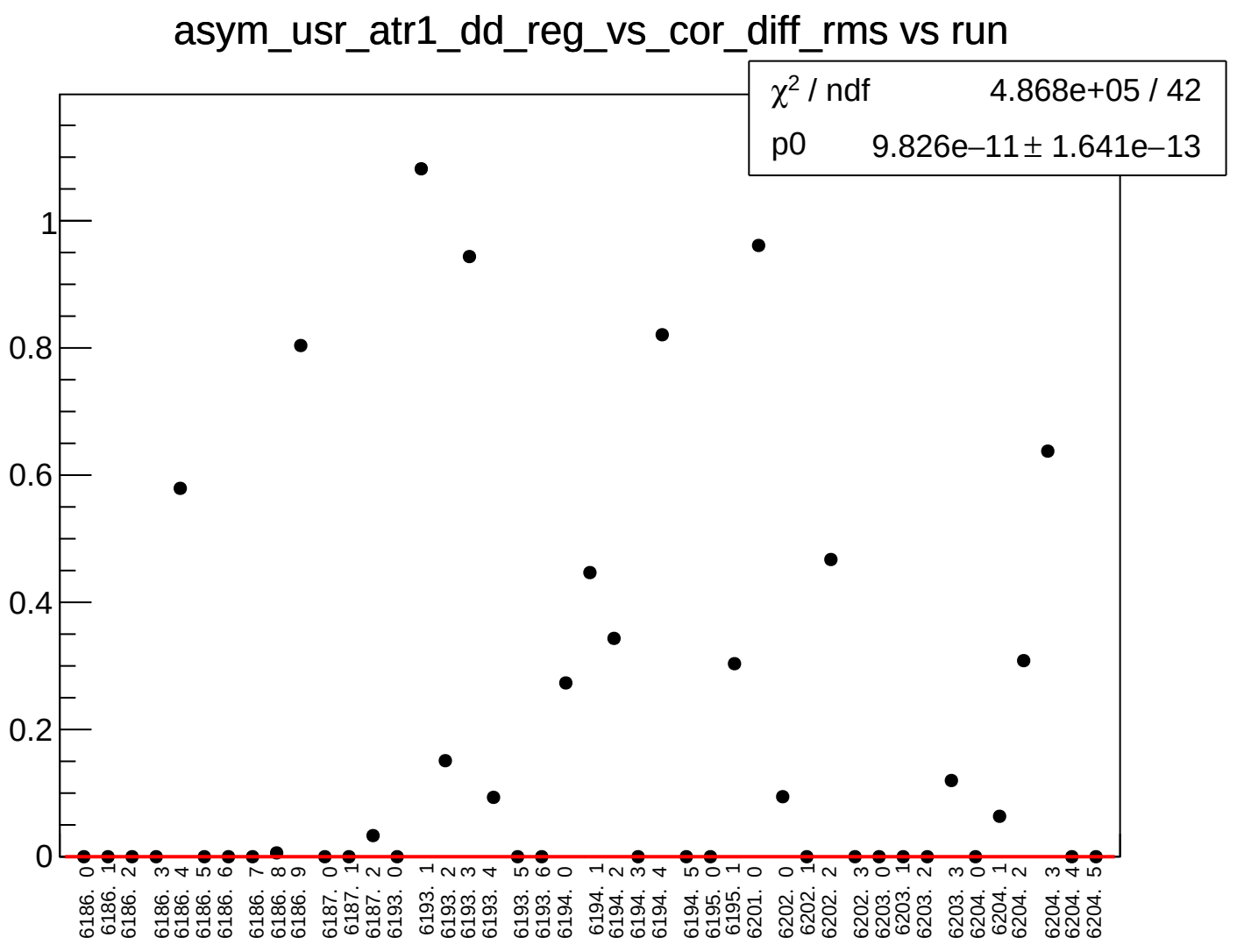

asym_usr_atr1_dd_mean vs run
×10^3
χ² / ndf 50.14 / 42
p0 960.4 ± 2890
pull
Entries 43
Mean −149.5
Std Dev 0

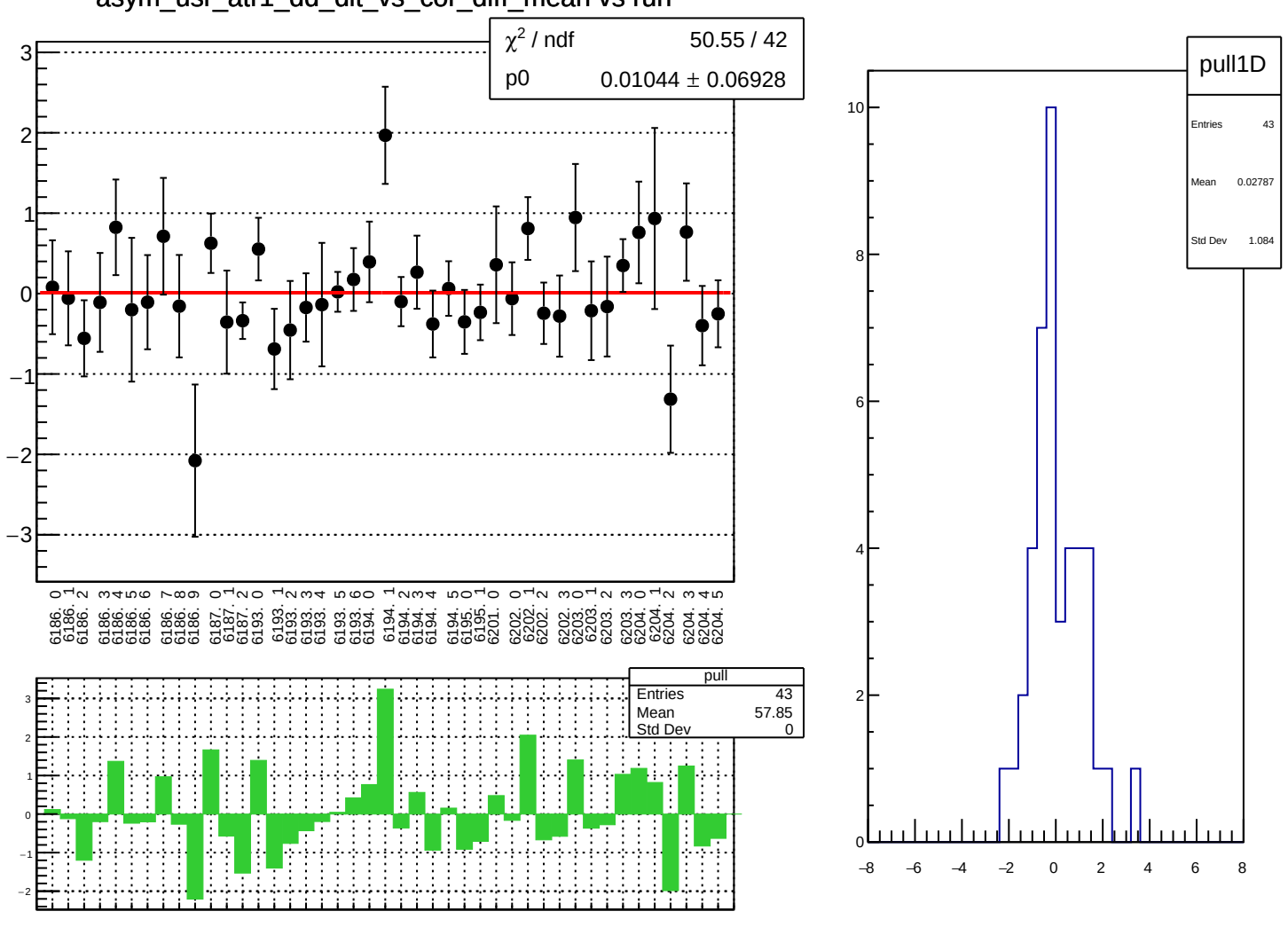

pull1D
Entries 43
Mean −0.0213
Std Dev 1.08

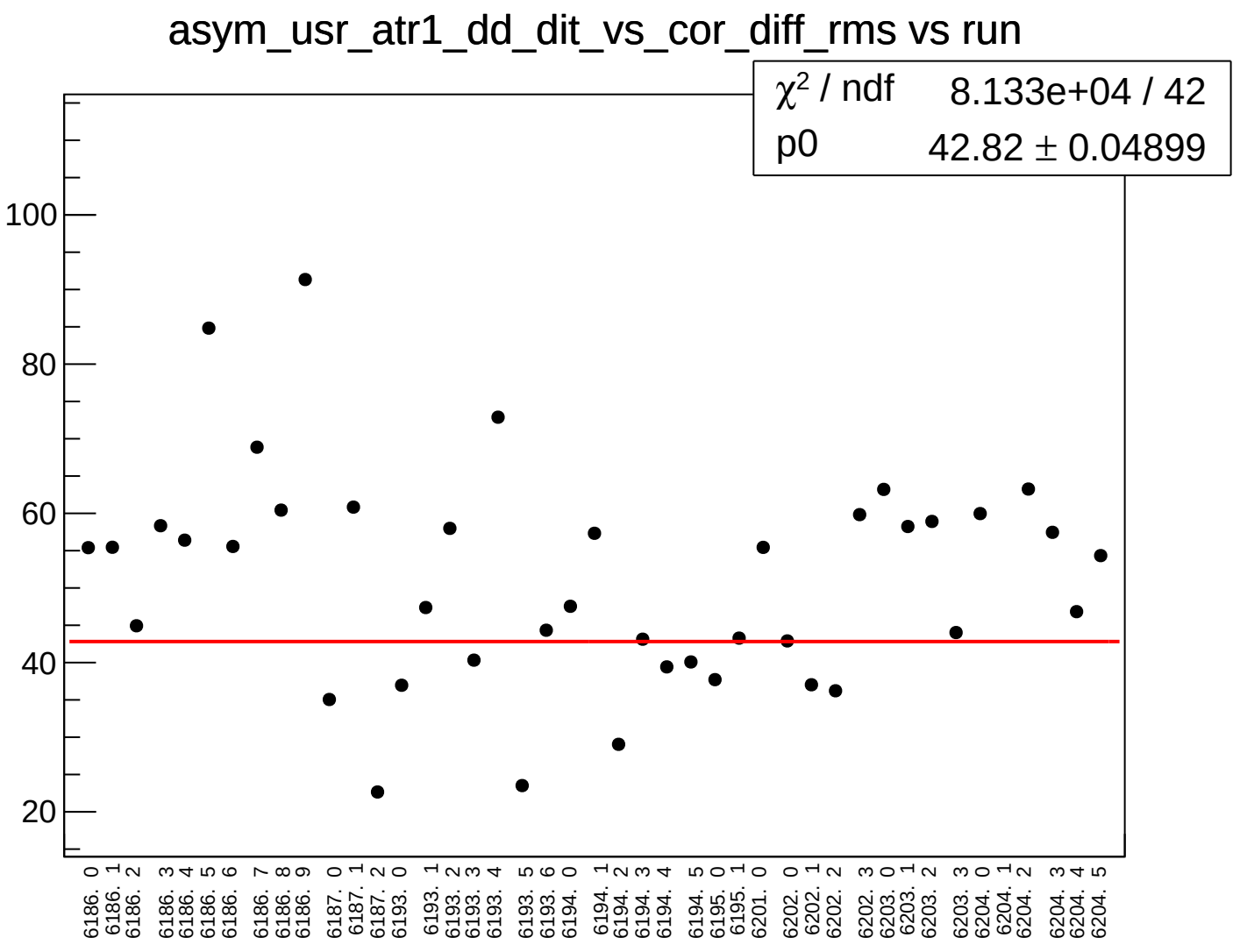

asym_usr_atr1_dd_rms vs run
χ² / ndf 1527 / 42
p0 1877 ± 2.043
2100
2050
2000
1950
1900
1850
1800
1750
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

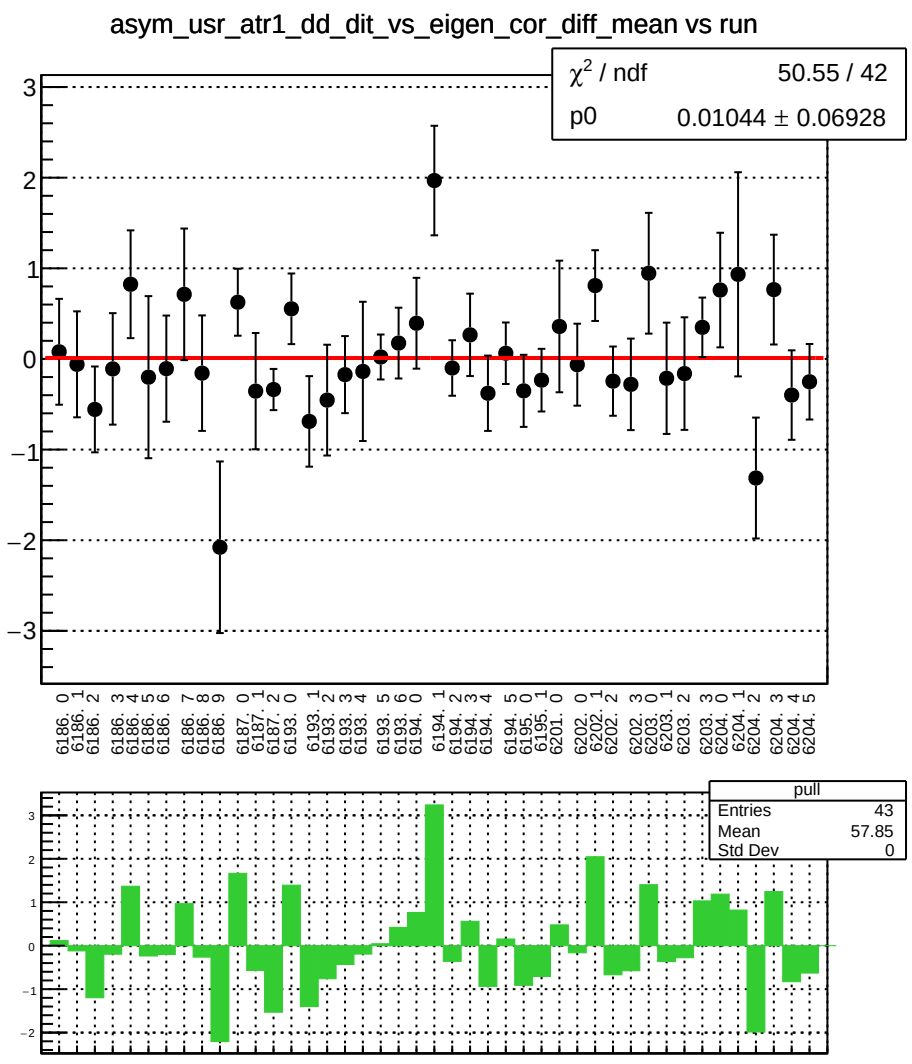

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 52.87 / 42
p0 −2.098e−13 ± 2.321e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2.259
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

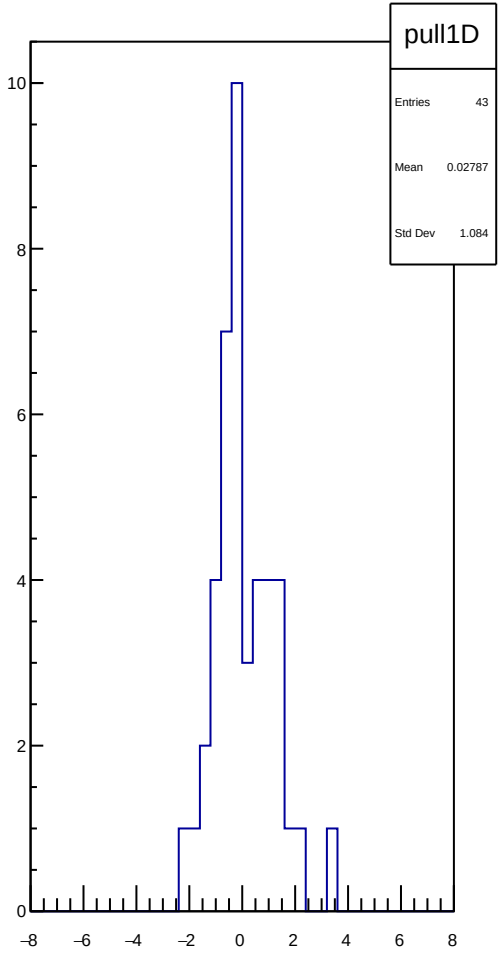

pull1D
Entries 43
Mean 0.1368
Std Dev 1.1
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

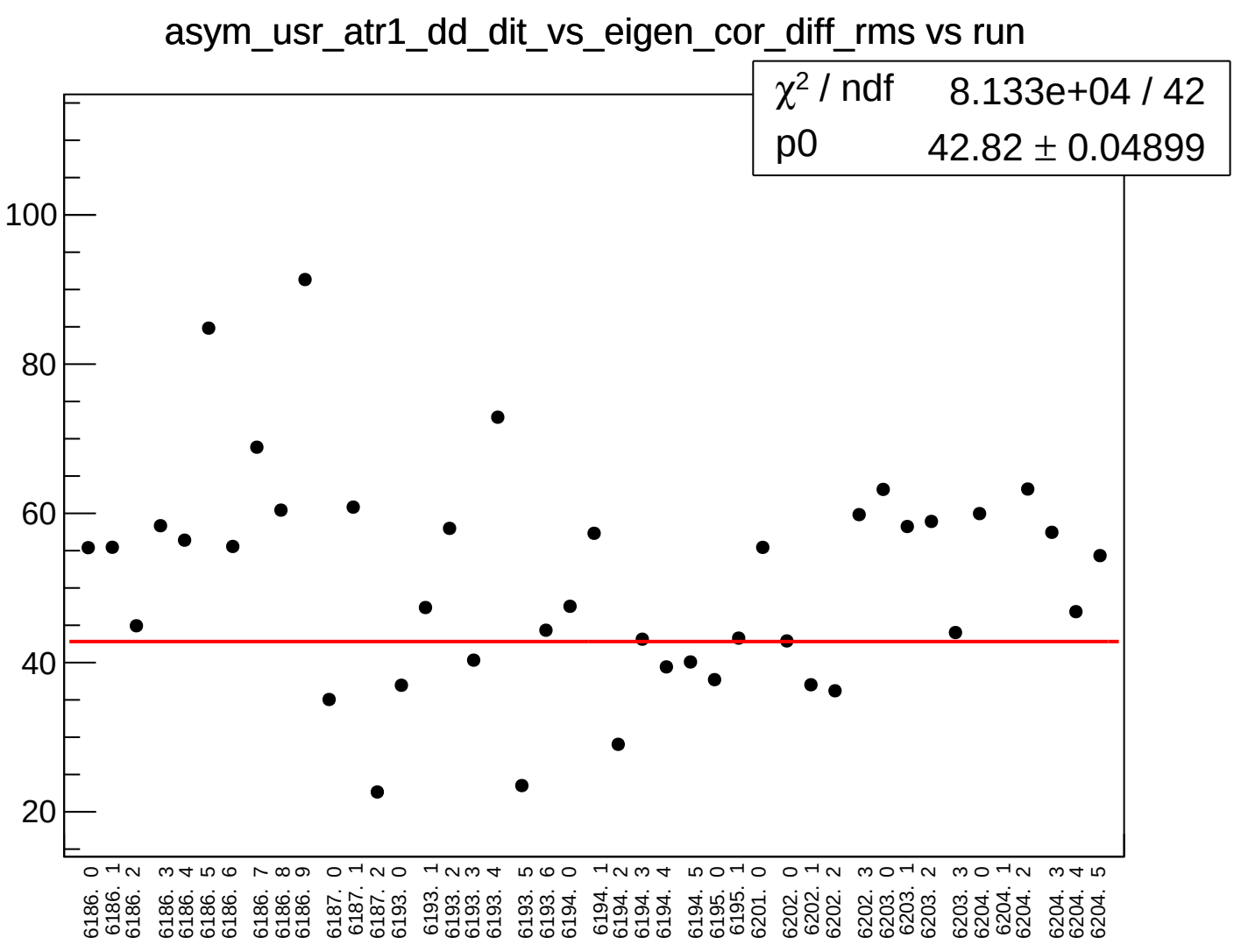

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.868e+05 / 42
p0 9.826e−11 ± 1.641e−13
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

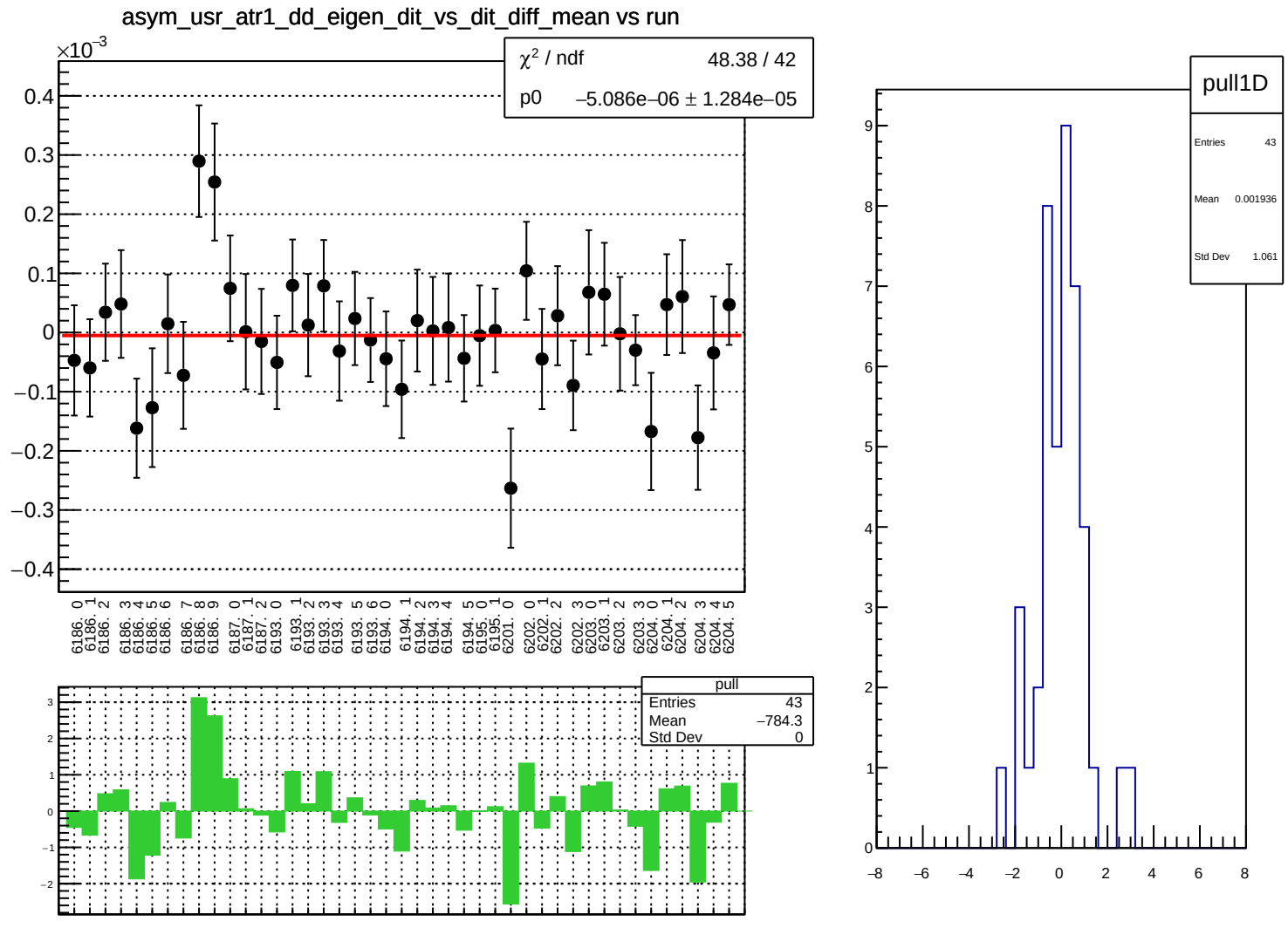

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 50.55 / 42
p0 0.01044 ± 0.06928
pull
Entries 43
Mean 57.85
Std Dev 0
pull1D
Entries 43
Mean 0.02787
Std Dev 1.084

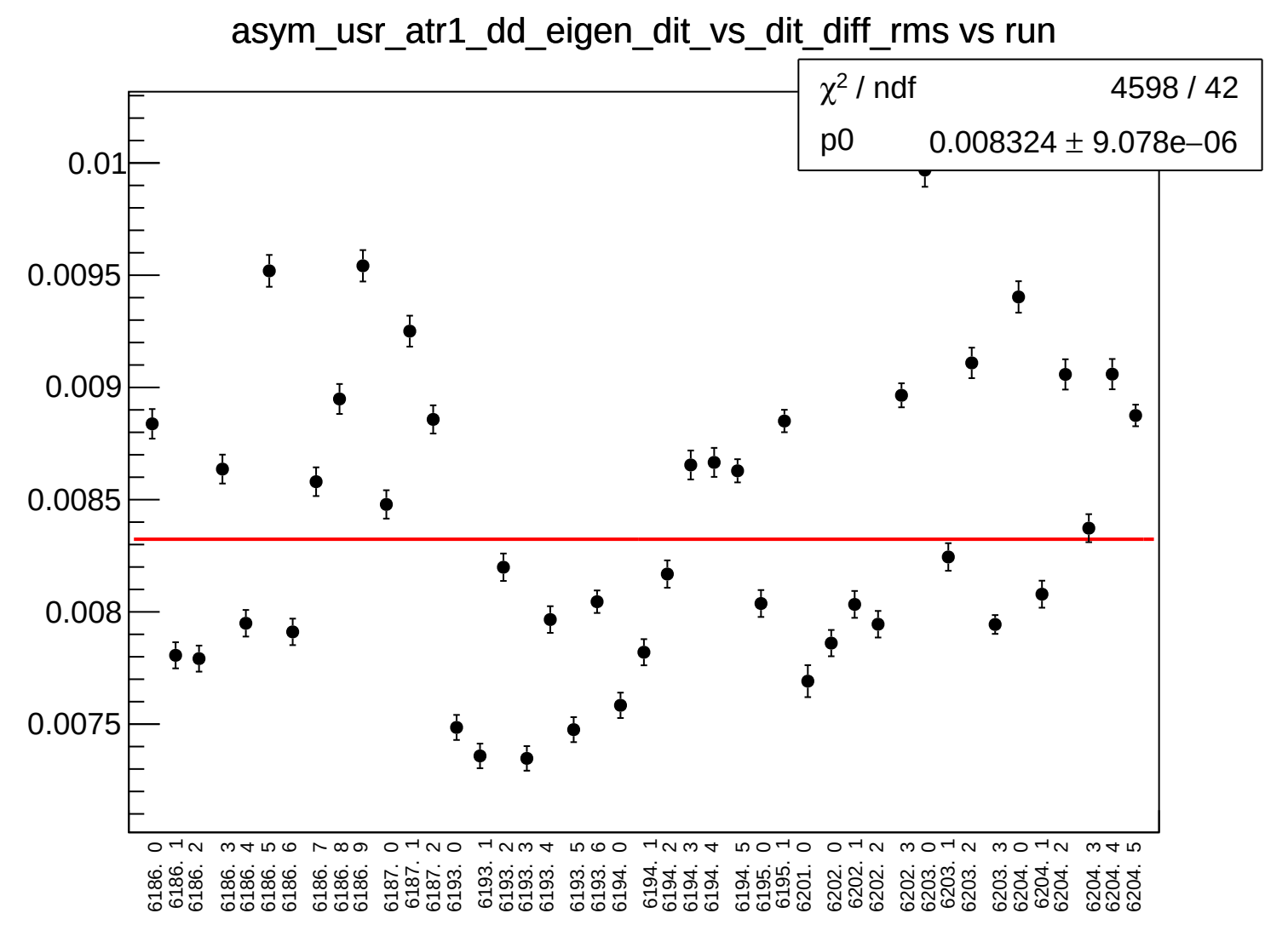

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.133e+04 / 42
p0 42.82 ± 0.04899
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

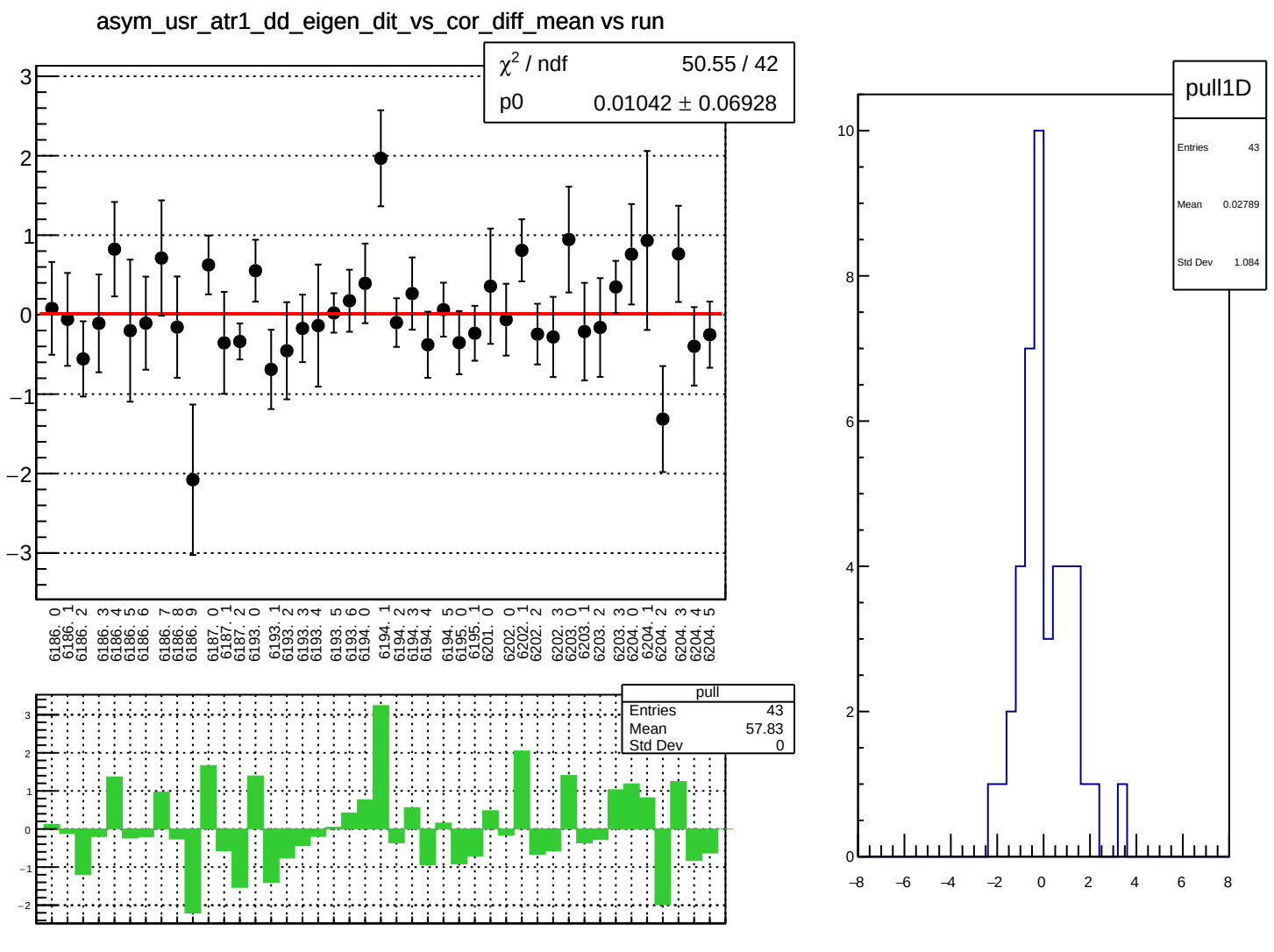

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.55 / 42
p0 0.01044 ± 0.06928
pull
Entries 43
Mean 57.85
Std Dev 0

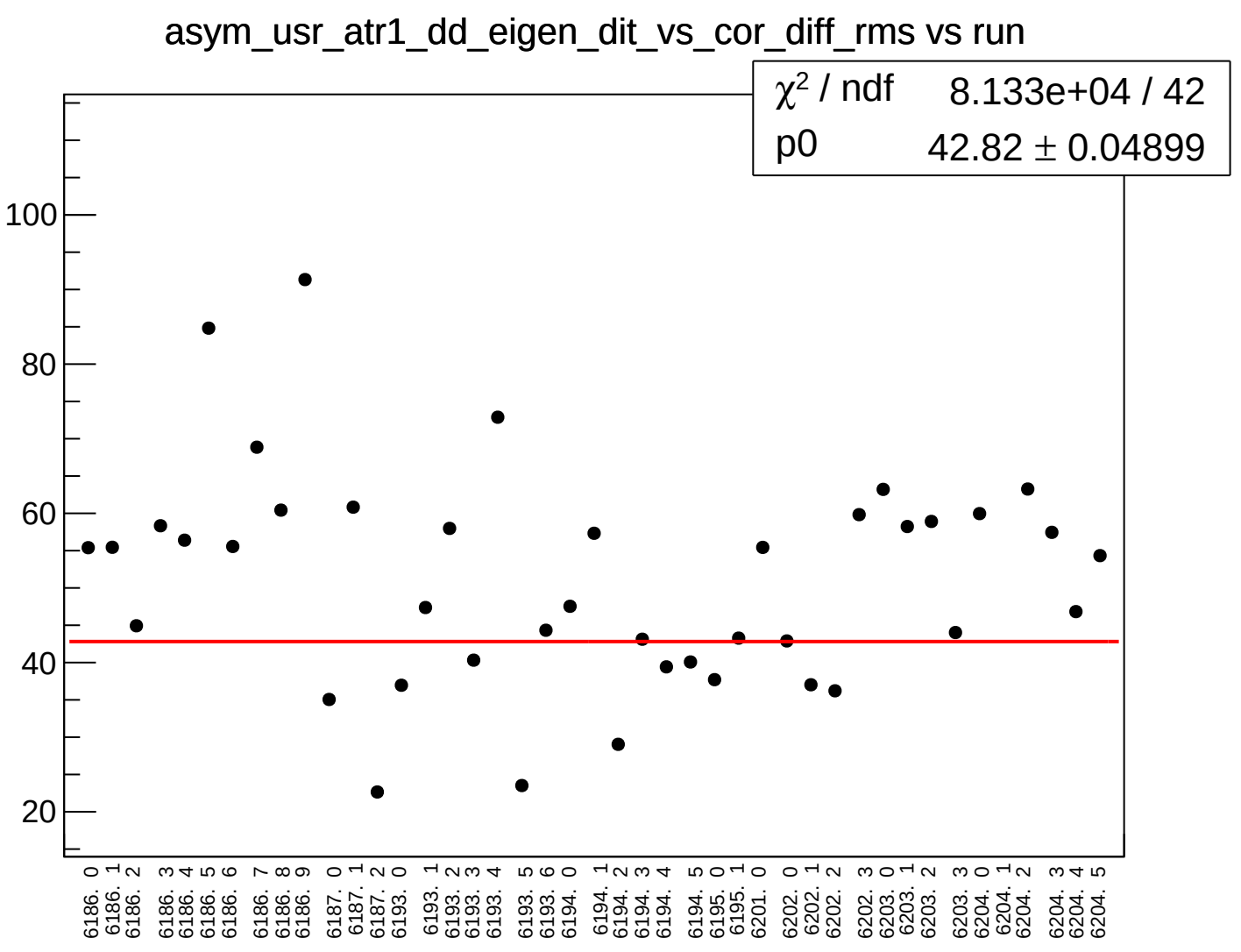

pull1D
Entries 43
Mean 0.02787
Std Dev 1.084

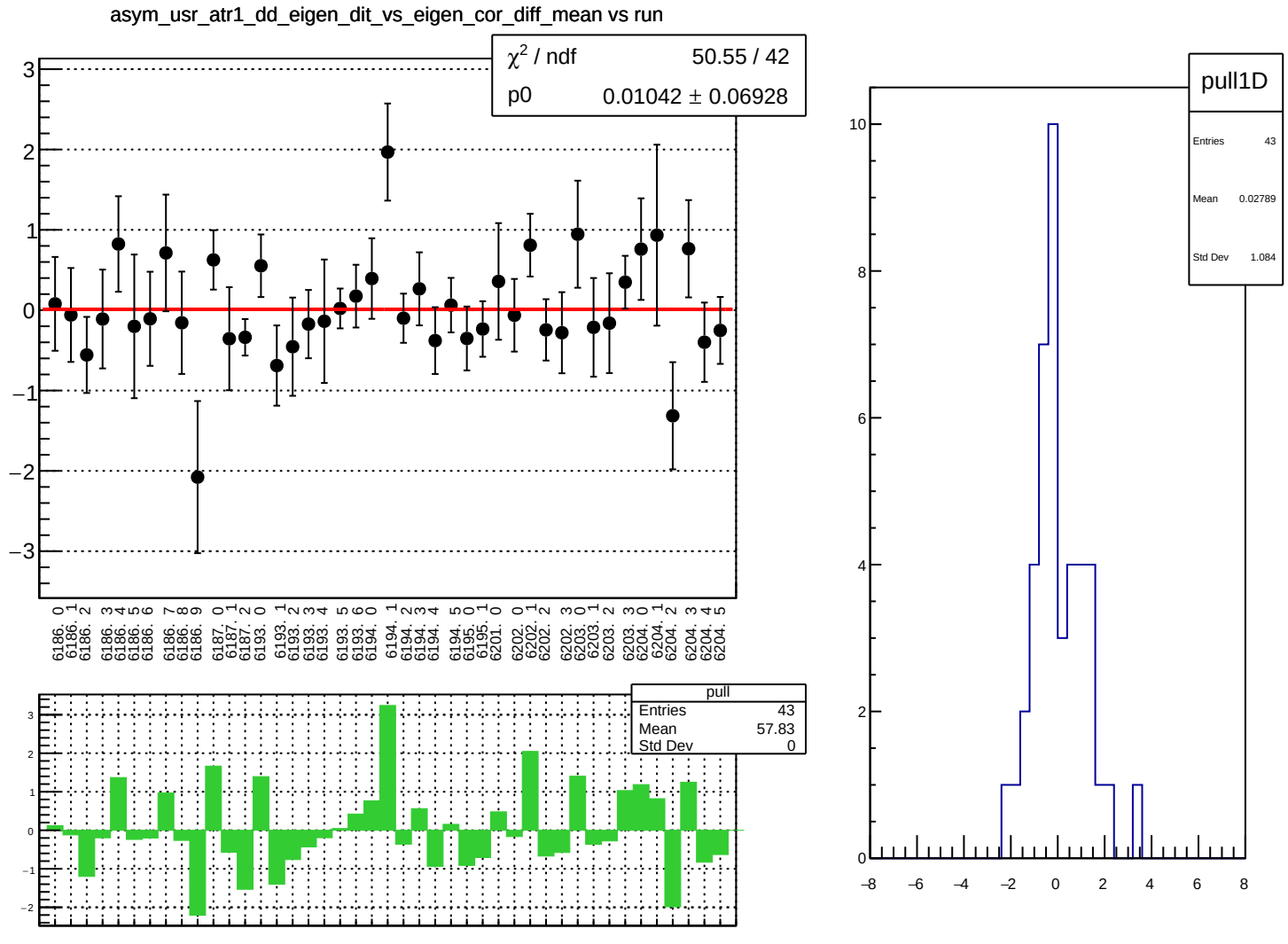

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.133e+04 / 42
p0 42.82 ± 0.04899
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

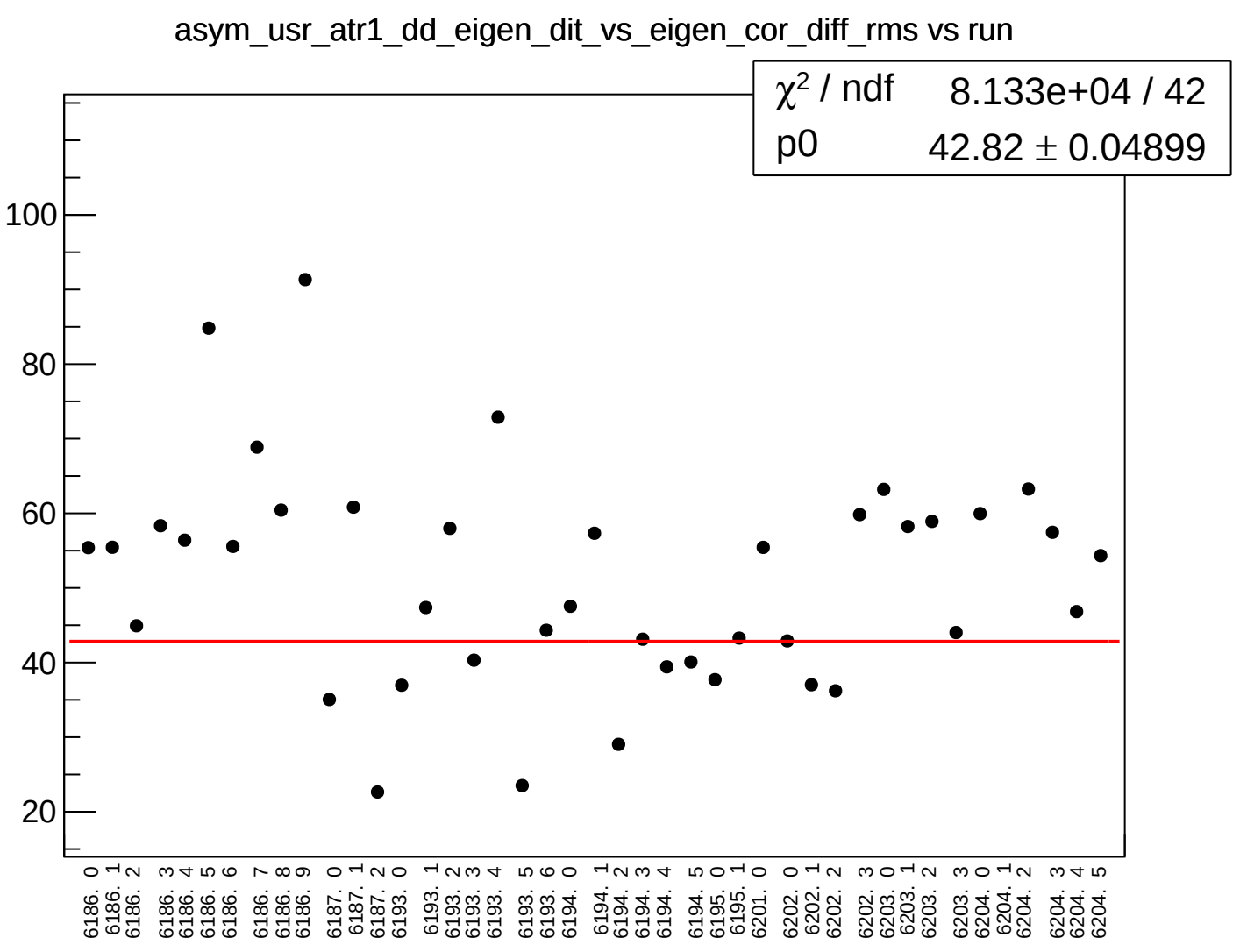

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.38 / 42
p0 −5.086e−06 ± 1.284e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −784.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.001936
Std Dev 1.061
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

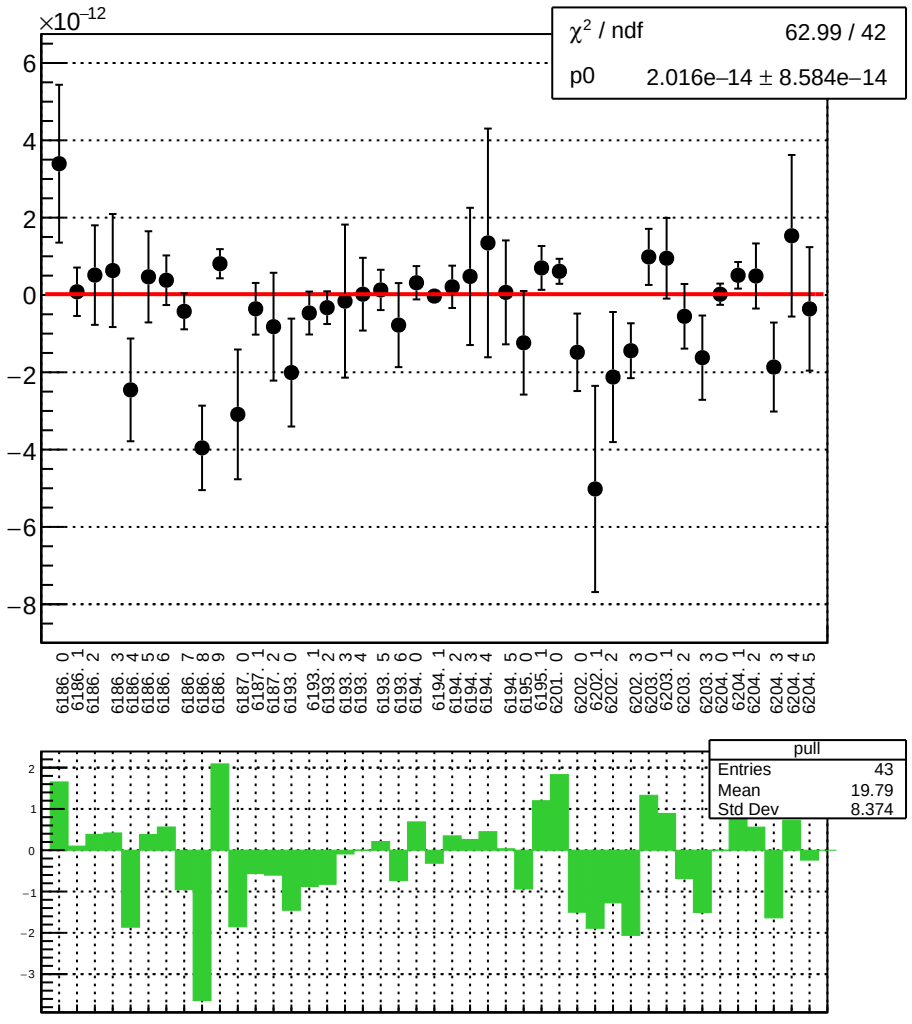

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4598 / 42
p0 0.008324 ± 9.078e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

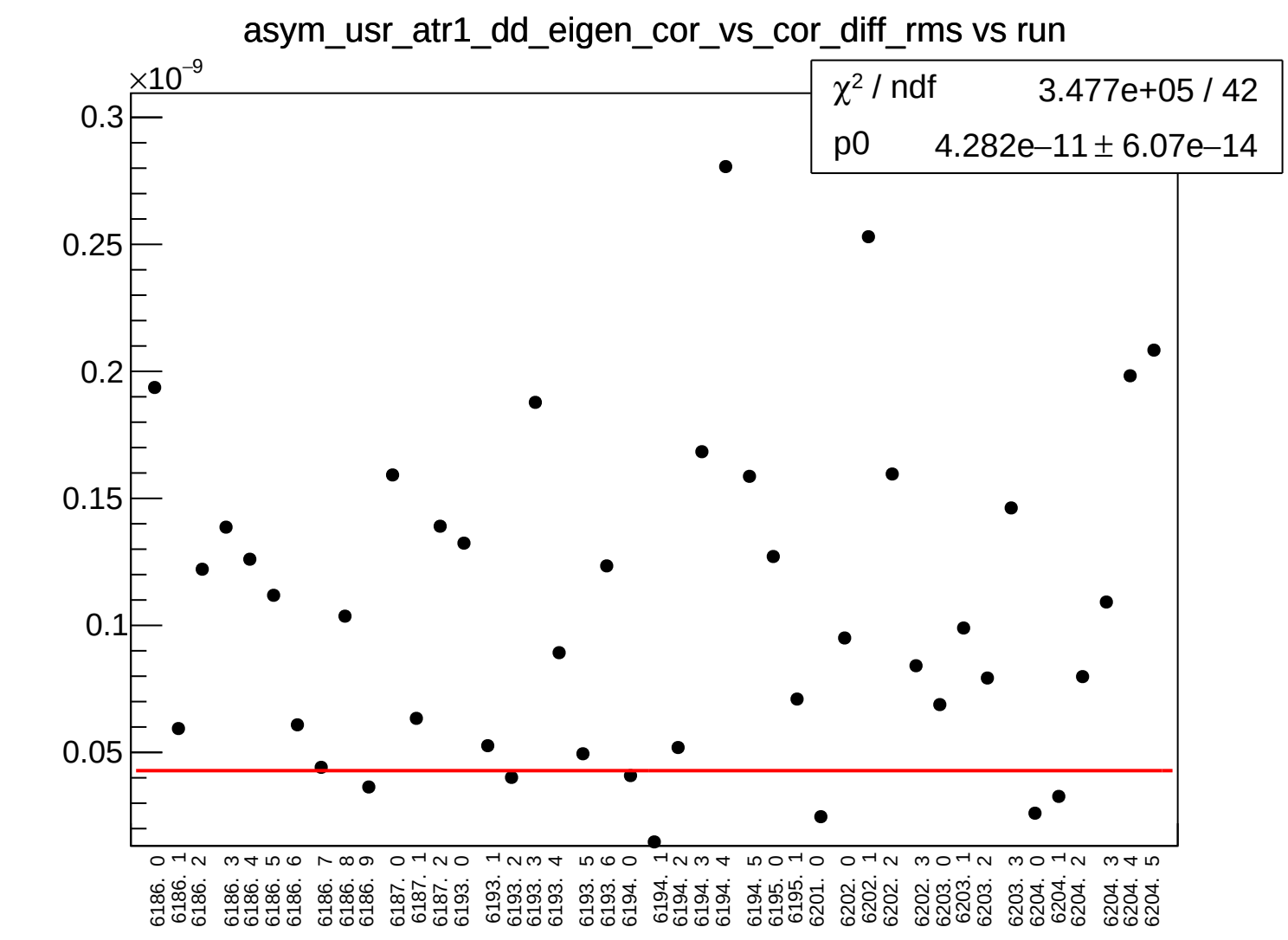

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.55 / 42
p0 0.01042 ± 0.06928
pull
Entries 43
Mean 57.83
Std Dev 0
pull1D
Entries 43
Mean 0.02789
Std Dev 1.084

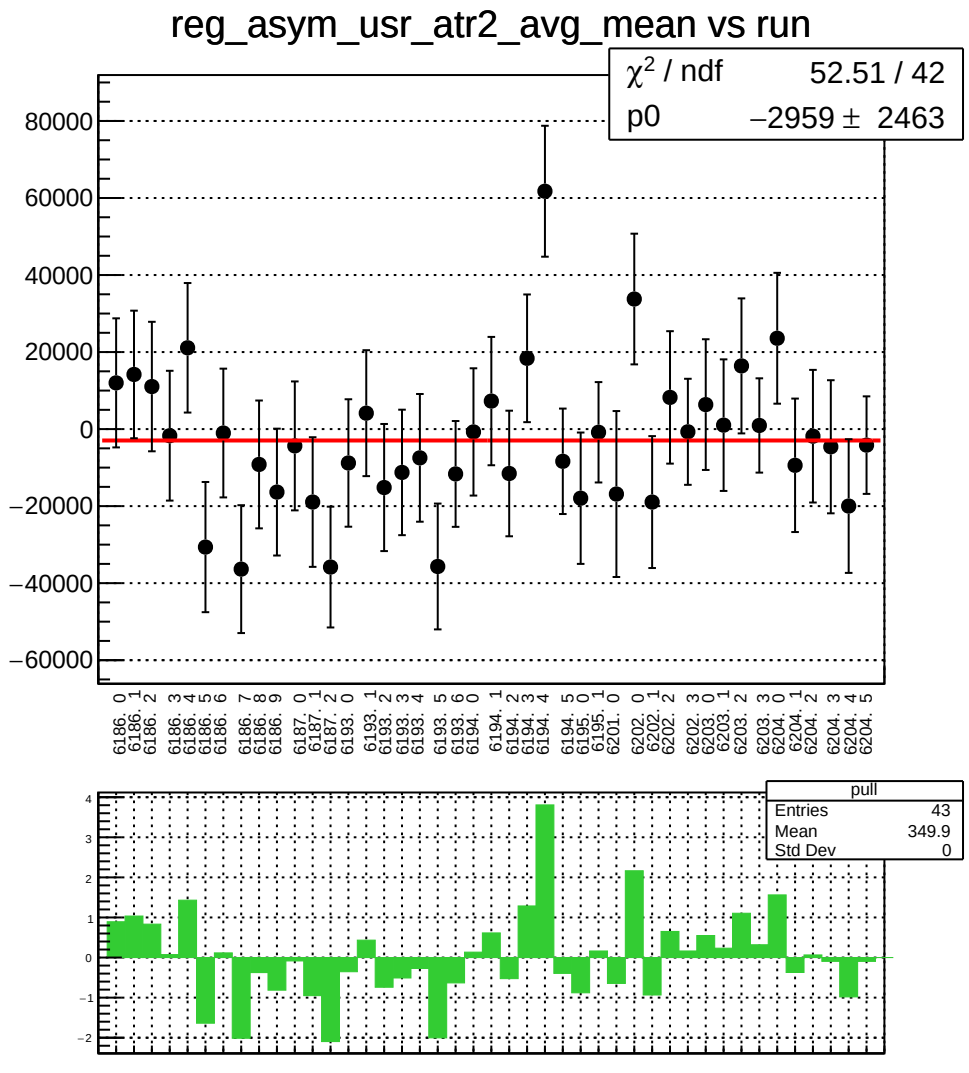

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.133e+04 / 42
p0 42.82 ± 0.04899
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

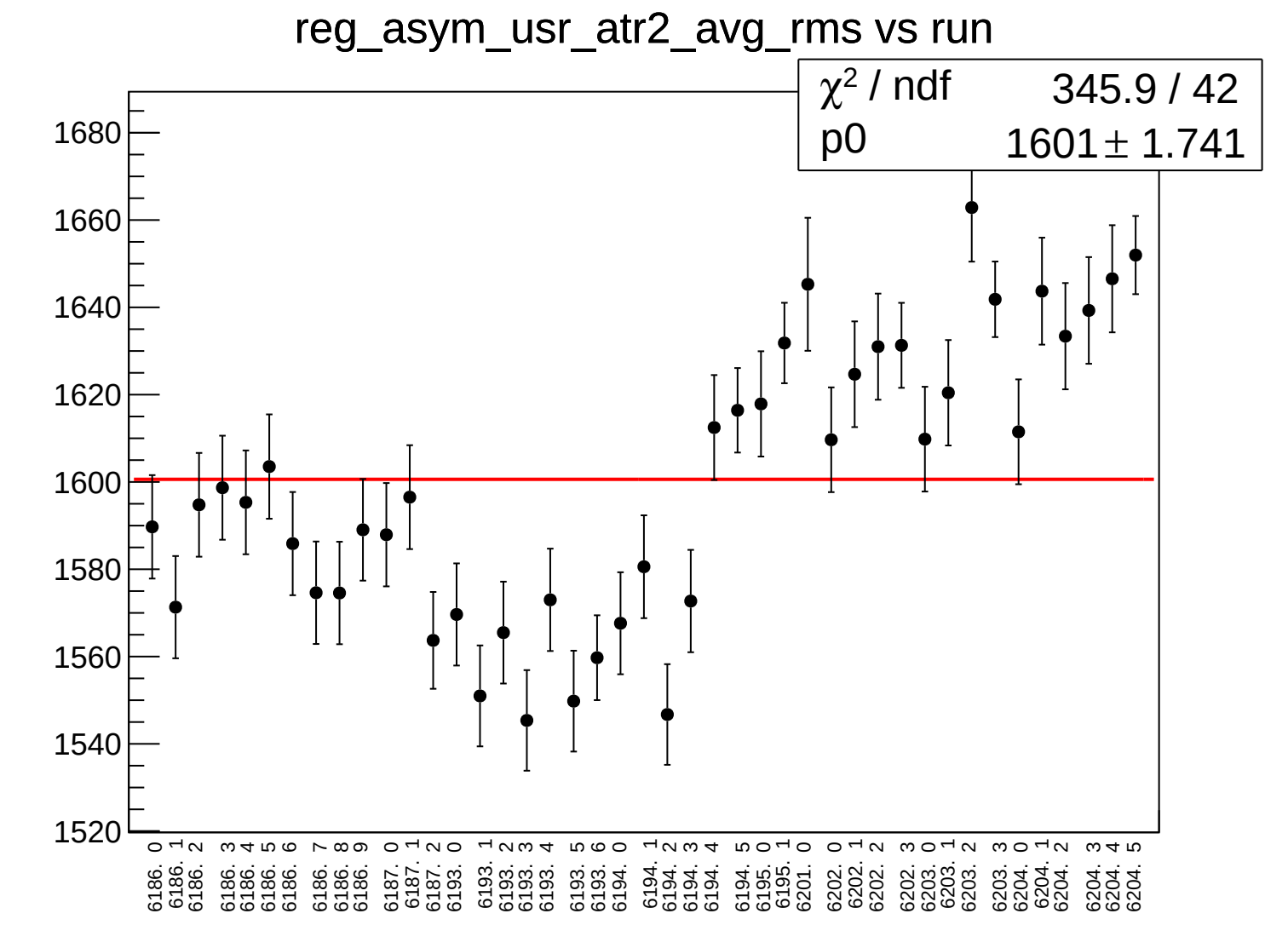

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.55 / 42
p0 0.01042 ± 0.06928
pull
Entries 43
Mean 57.83
Std Dev 0
pull1D
Entries 43
Mean 0.02789
Std Dev 1.084

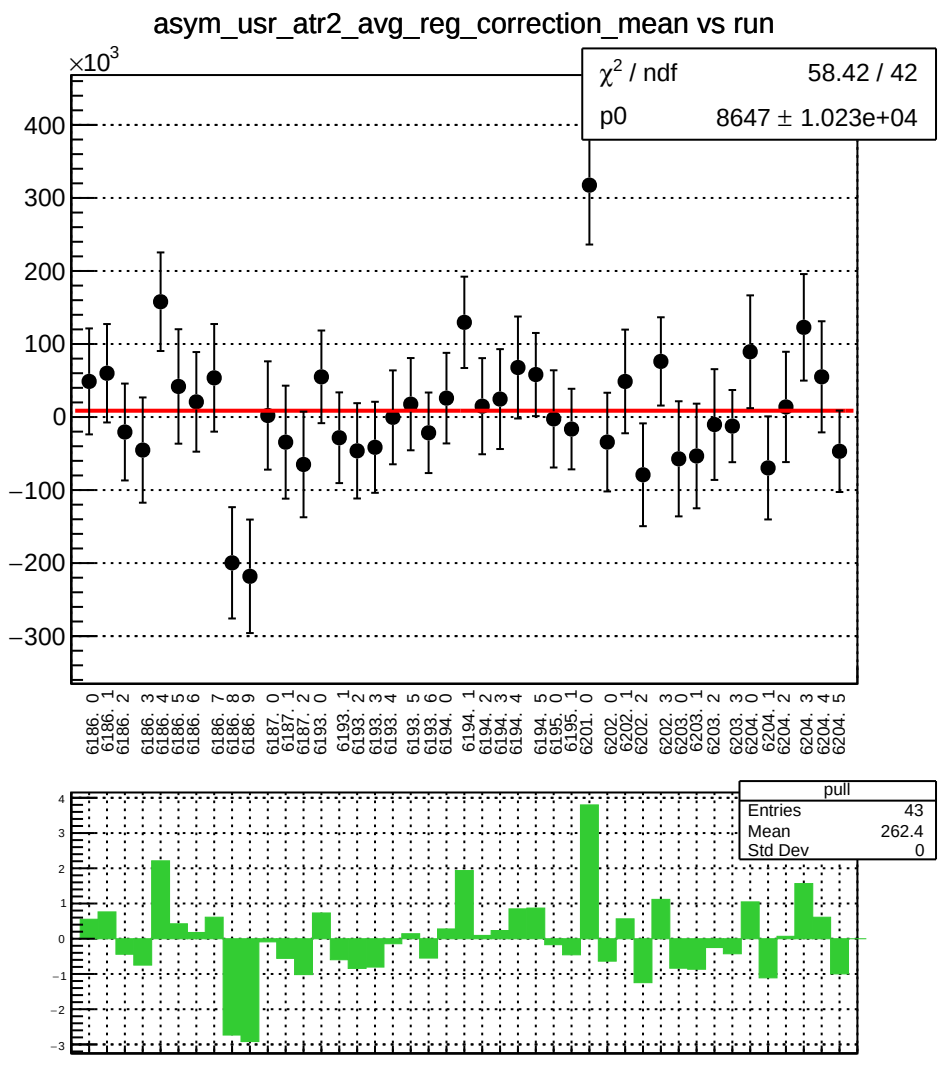

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.133e+04 / 42
p0 42.82 ± 0.04899
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

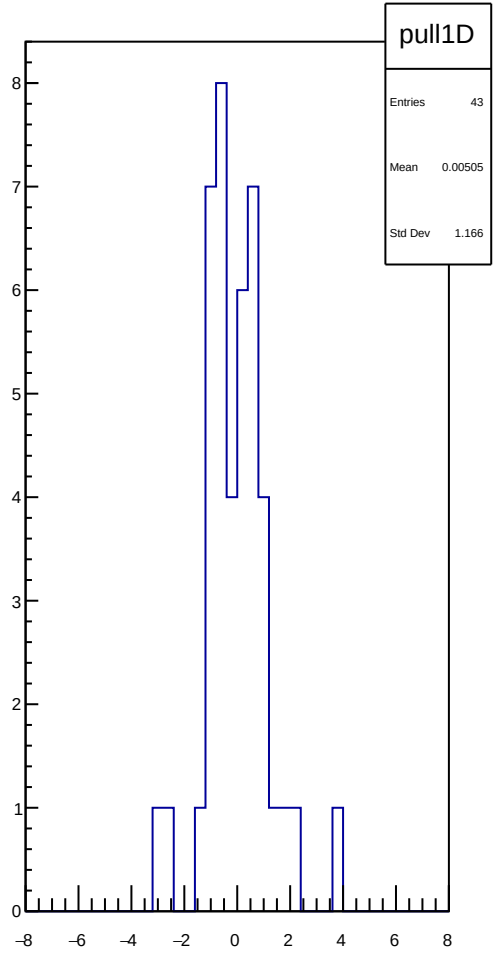

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 62.99 / 42
p0 2.016e−14 ± 8.584e−14
6
4
2
0
−2
−4
−6
−8
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 19.79
Std Dev 8.374
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.2322
Std Dev 1.188
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

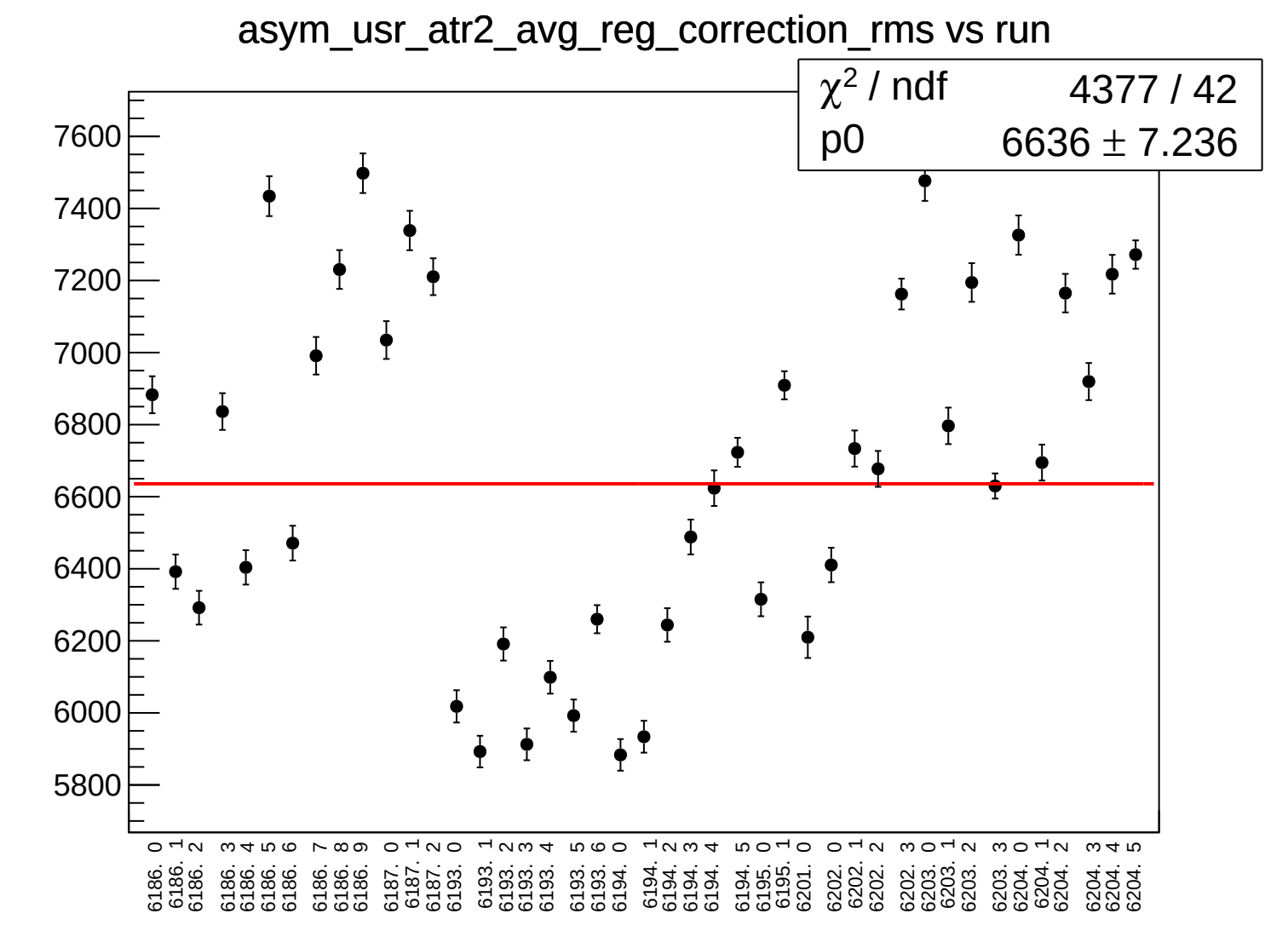

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.477e+05 / 42
p0 4.282e−11 ± 6.07e−14
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

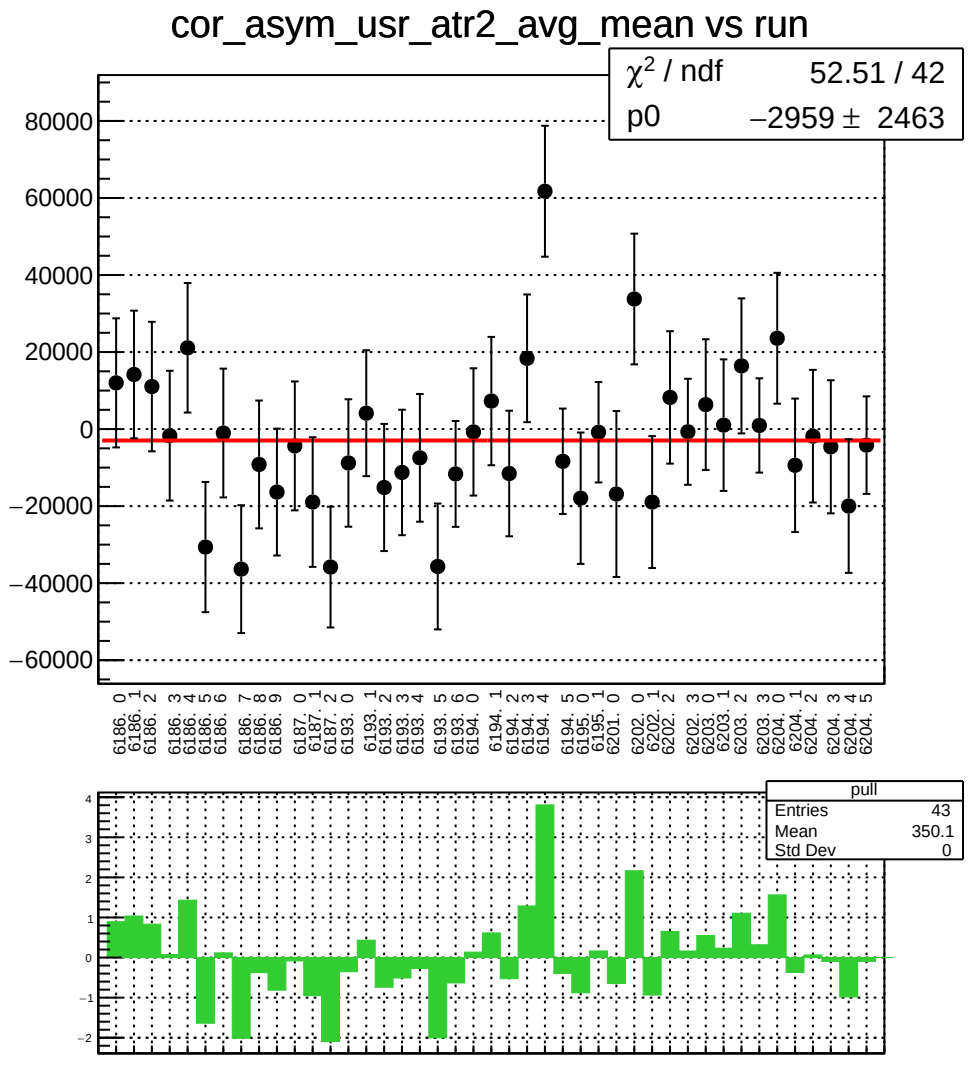

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 52.51 / 42
p0 −2959 ± 2463
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 349.9
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.005531
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

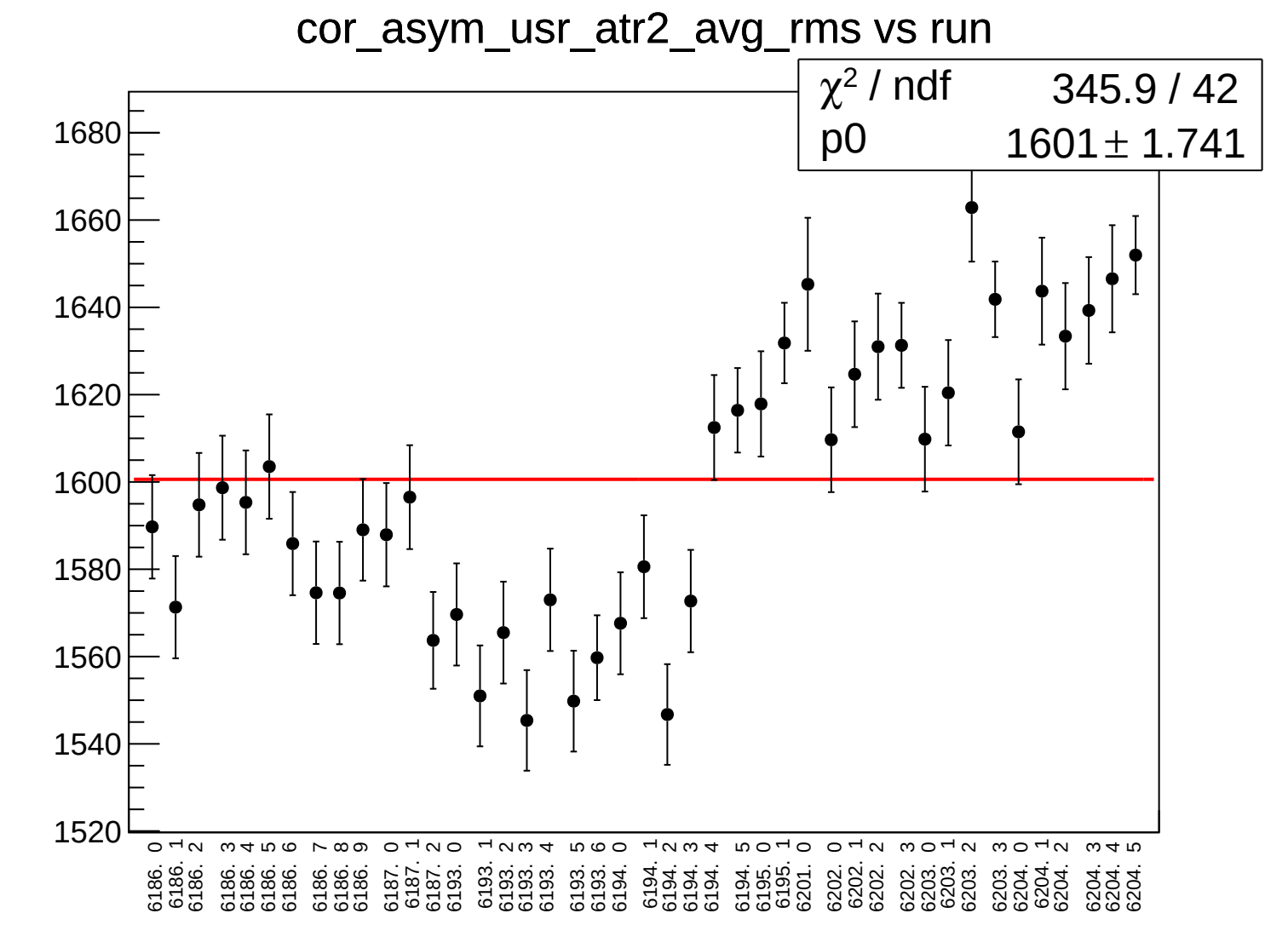

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 345.9 / 42
p0 1601 ± 1.741
1680
1660
1640
1620
1600
1580
1560
1540
1520
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 58.42 / 42
p0 8647 ± 1.023e+04
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 262.4
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.00505
Std Dev 1.166
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 4377 / 42
p0 6636 ± 7.236
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 52.51 / 42
p0 −2959 ± 2463
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 350.1
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.005527
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 345.9 / 42
p0 1601 ± 1.741
1680
1660
1640
1620
1600
1580
1560
1540
1520
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
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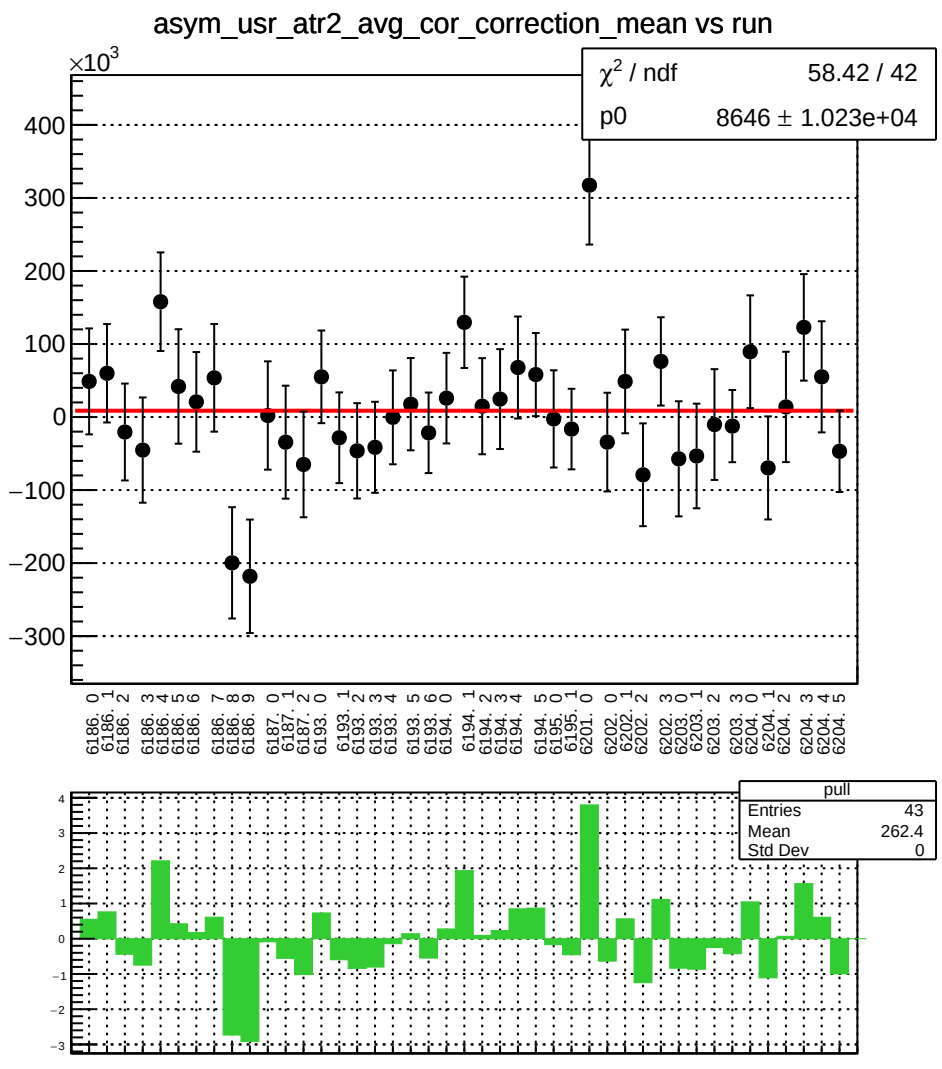
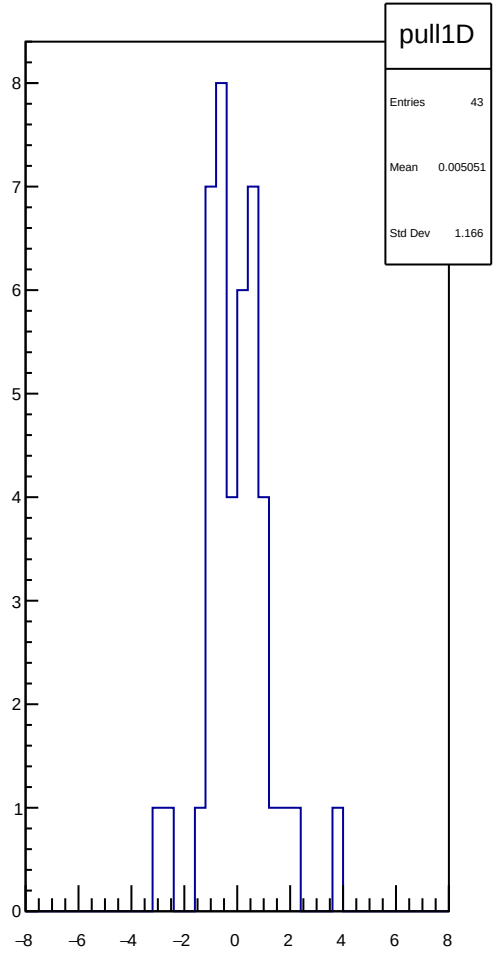
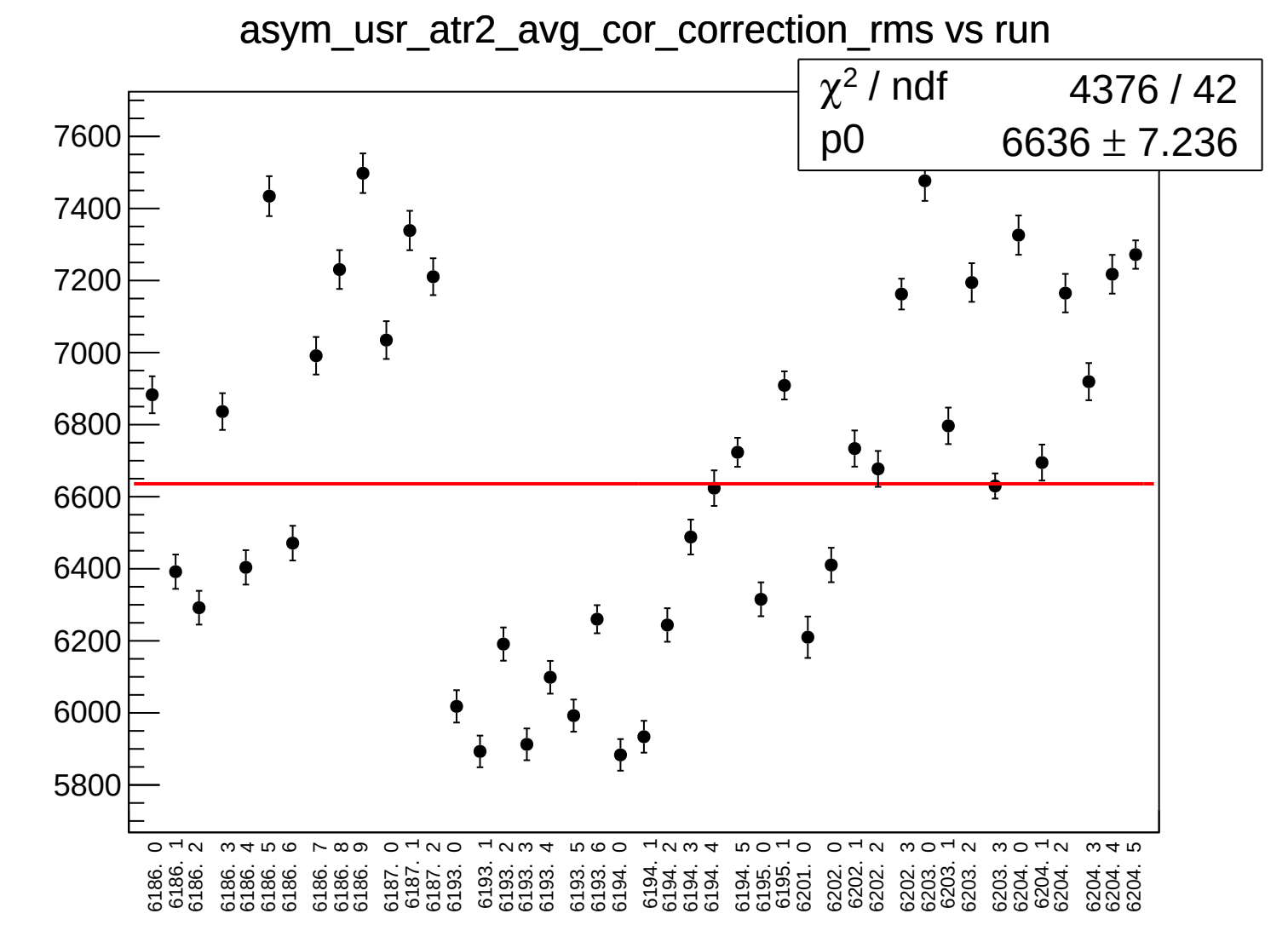
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 58.42 / 42
p0 8646 ± 1.023e+04
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 262.4
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.005051
Std Dev 1.166
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 4376 / 42
p0 6636 ± 7.236
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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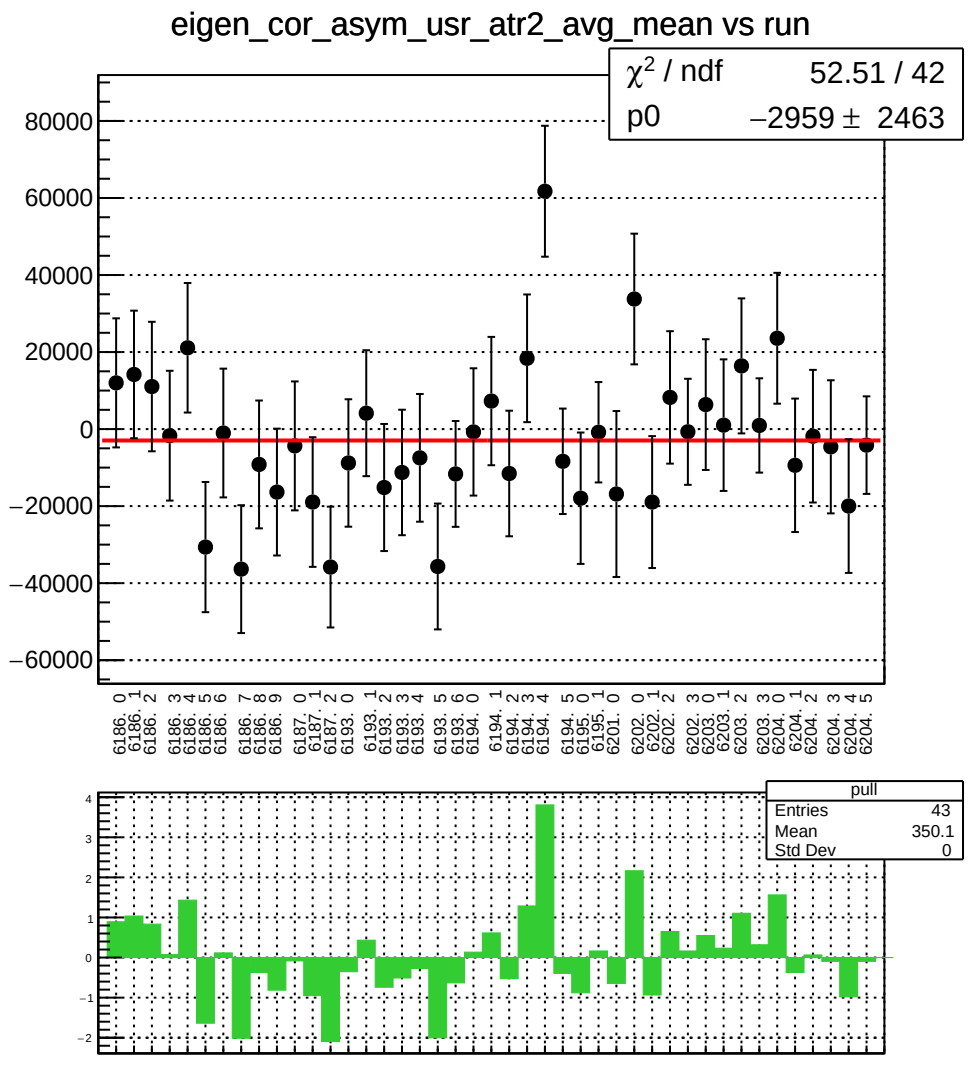
6204. 4
6204. 5


eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 52.51 / 42
p0 −2959 ± 2463
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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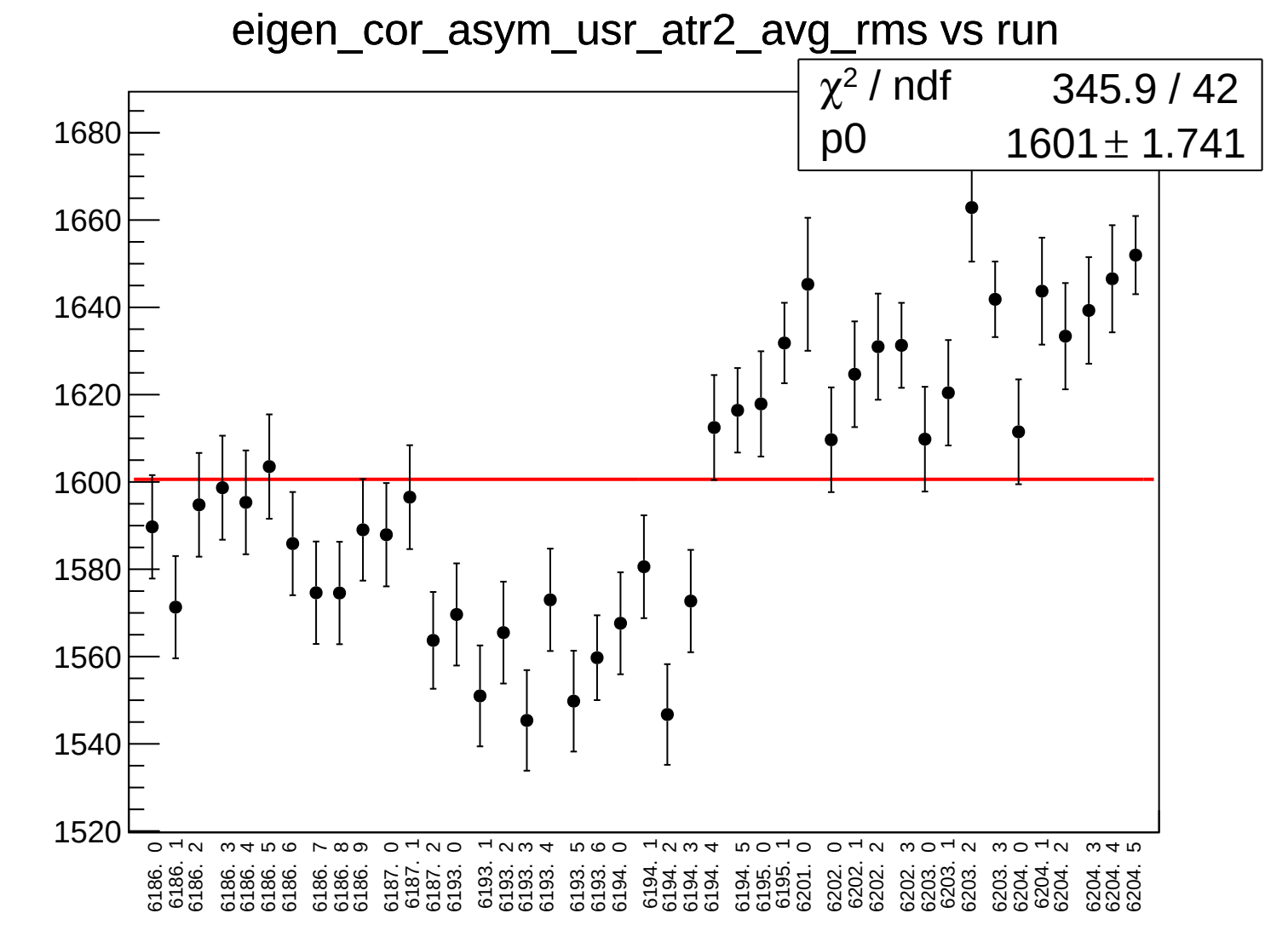
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 350.1
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.005527
Std Dev 1.105
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 345.9 / 42
p0 1601 ± 1.741
1680
1660
1640
1620
1600
1580
1560
1540
1520
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
6204. 0
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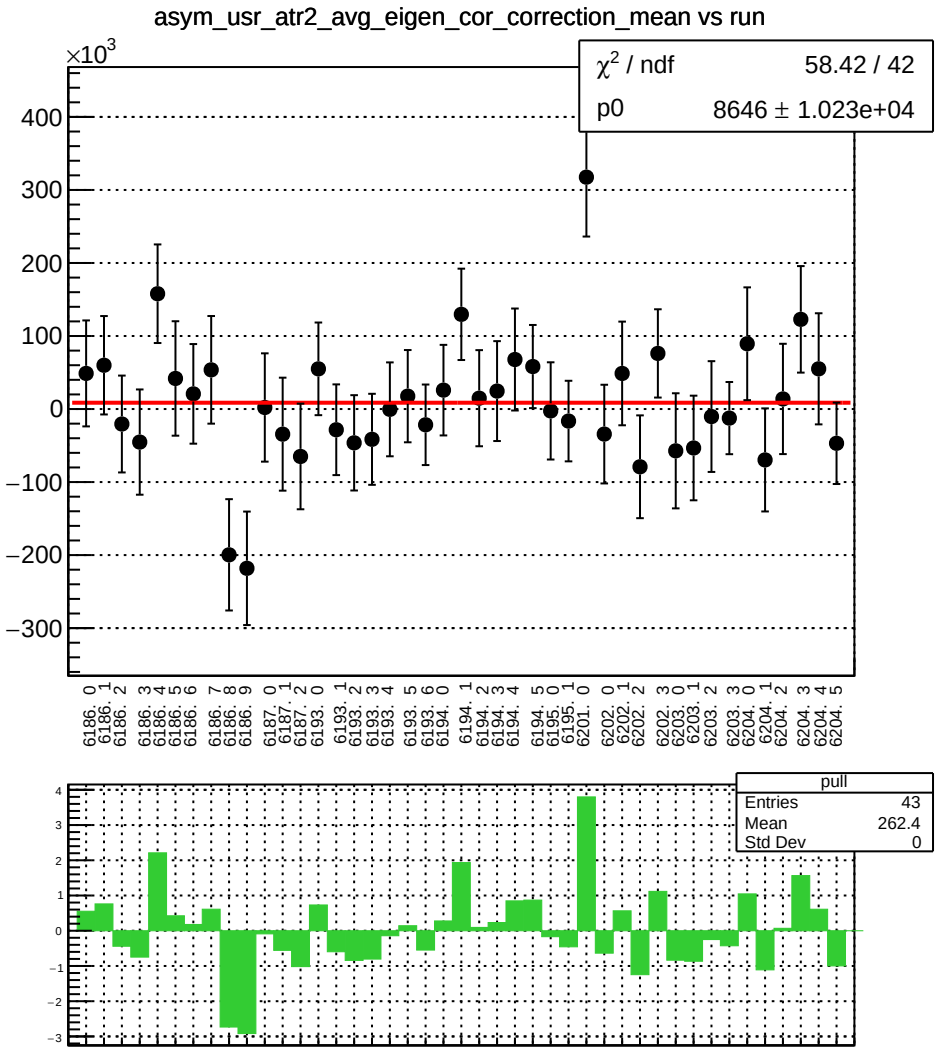
6204. 2
6204. 3
6204. 4
6204. 5


asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 58.42 / 42
p0 8646 ± 1.023e+04
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 262.4
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.005051
Std Dev 1.166
8
7
6
5
4
3
2
1
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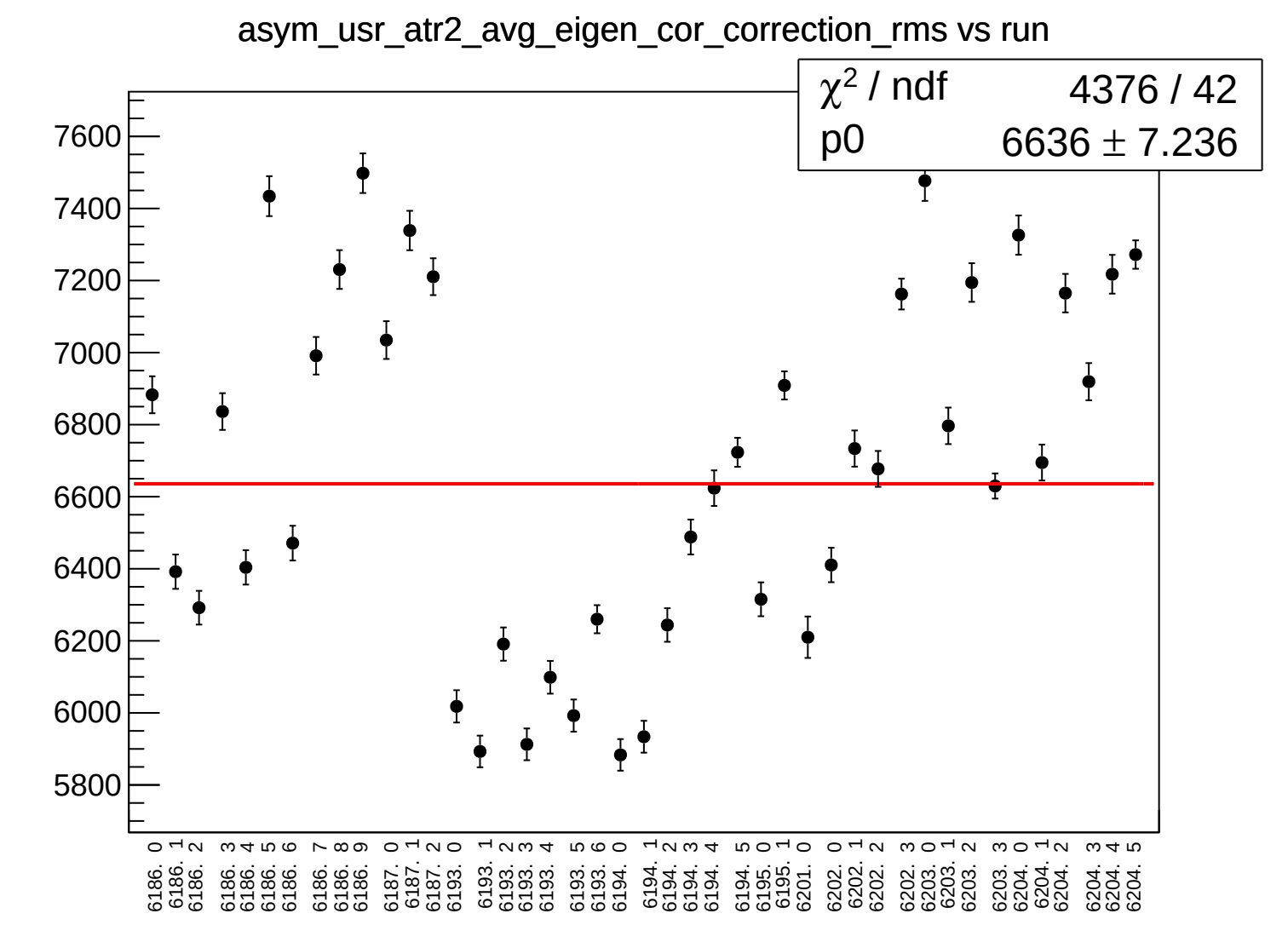
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4376 / 42
p0 6636 ± 7.236
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
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6187. 0
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6193. 6
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6202. 2
6202. 3
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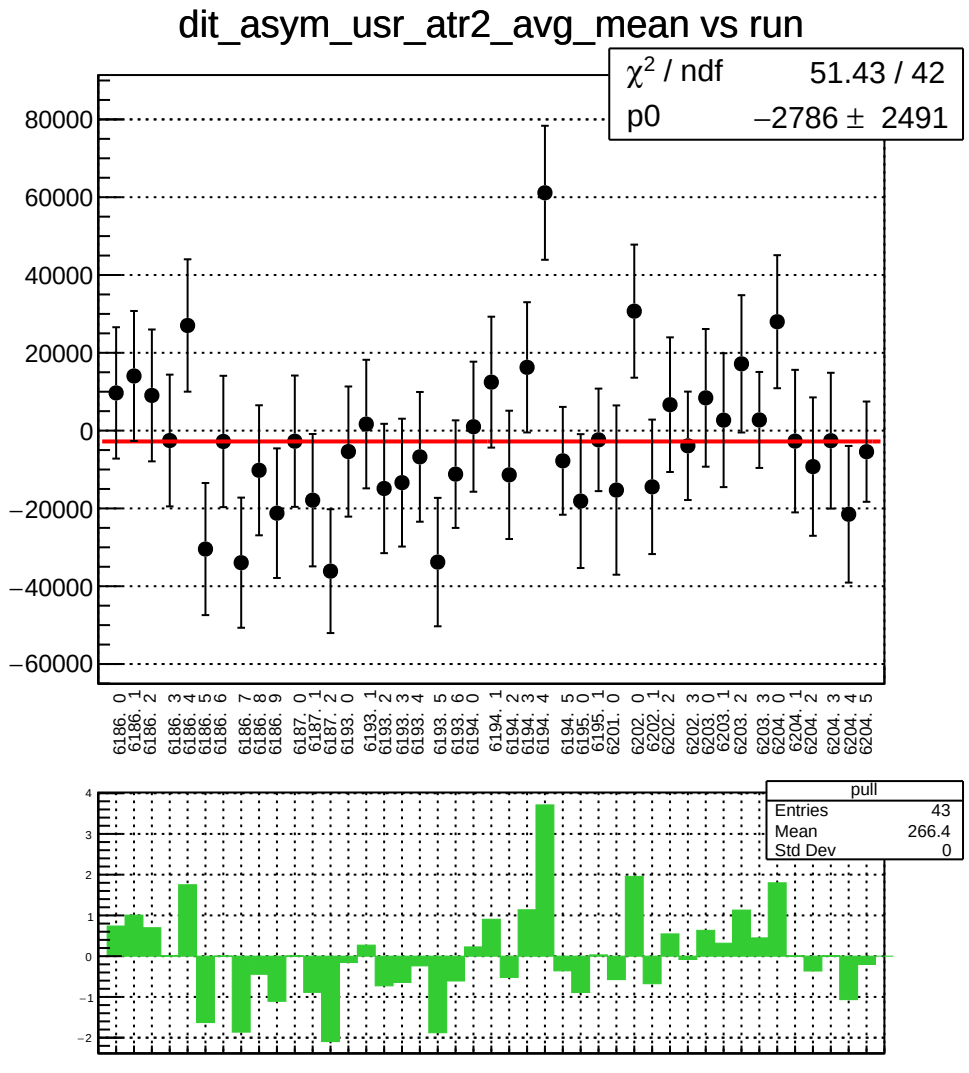
6204. 4
6204. 5


dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 51.43 / 42
p0 −2786 ± 2491
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 266.4
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.007882
Std Dev 1.094
8
7
6
5
4
3
2
1
0
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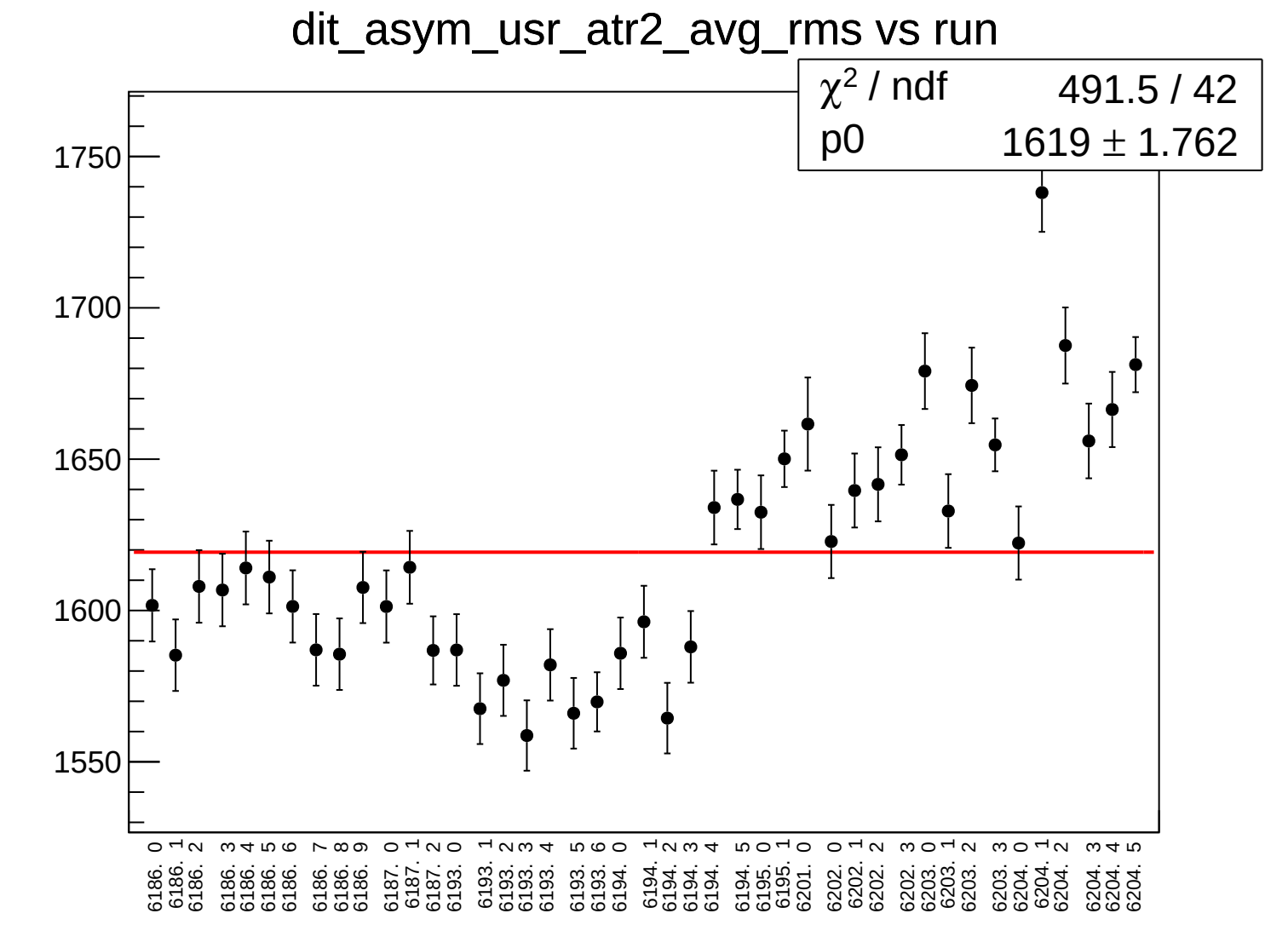
−4
−2
0
2
4
6
8


dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 491.5 / 42
p0 1619 ± 1.762
1750
1700
1650
1600
1550
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
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6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
6194. 4
6194. 5
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6202. 1
6202. 2
6202. 3
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6204. 2
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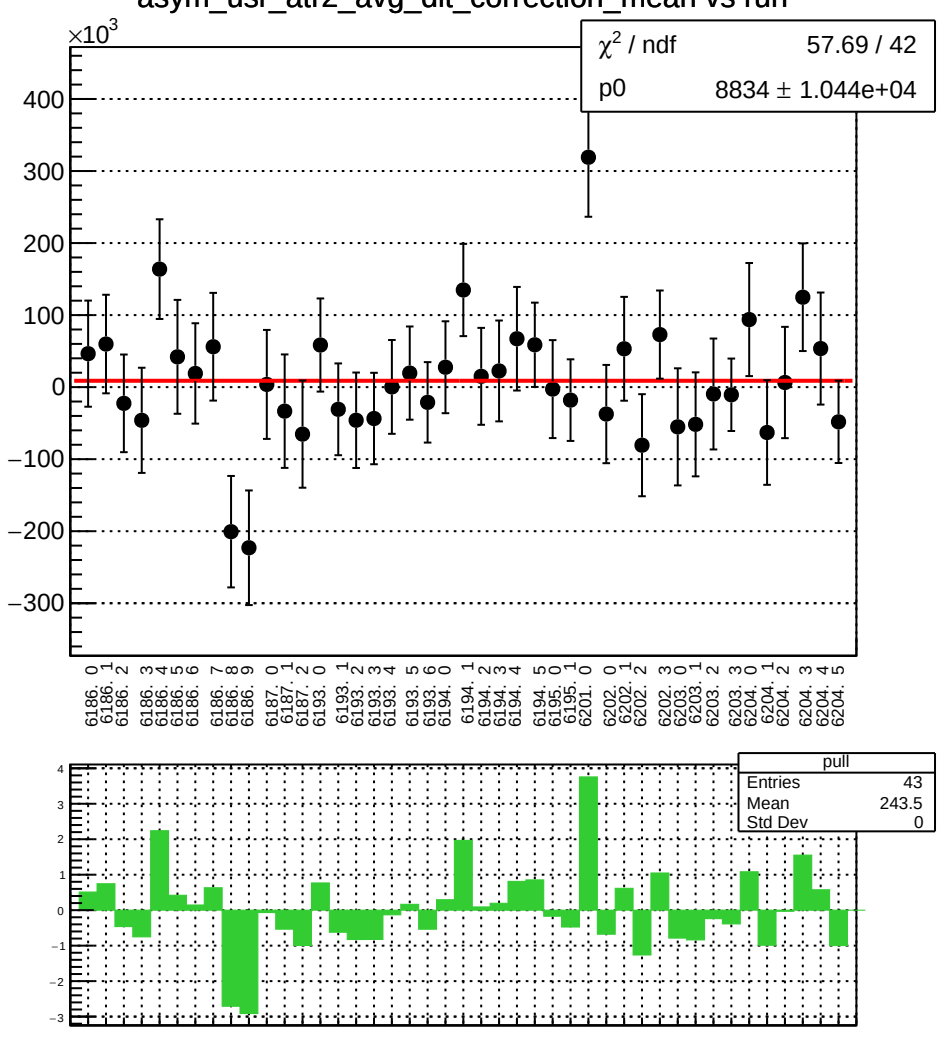
6204. 5


asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 57.69 / 42
p0 8834 ± 1.044e+04
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
6193. 0
6193. 1
6193. 2
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6193. 6
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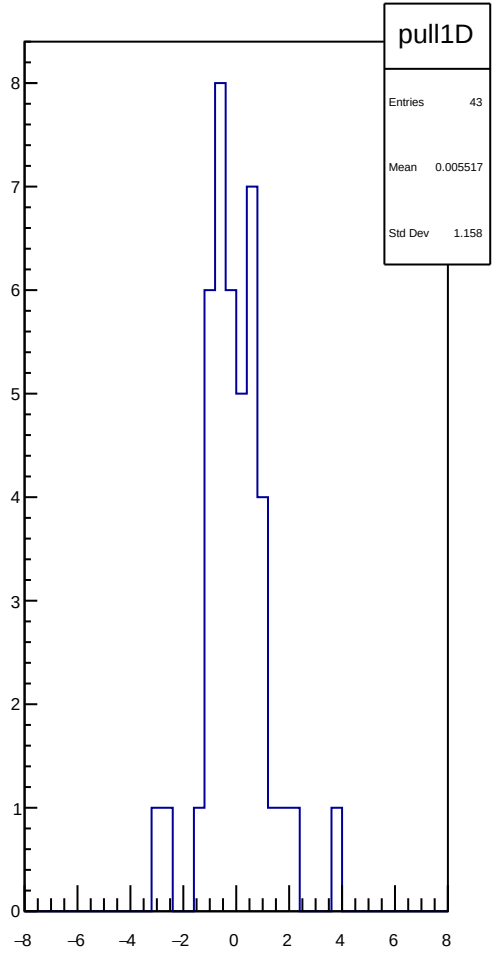
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 243.5
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.005517
Std Dev 1.158
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1
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−8
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−4
−2
0
2
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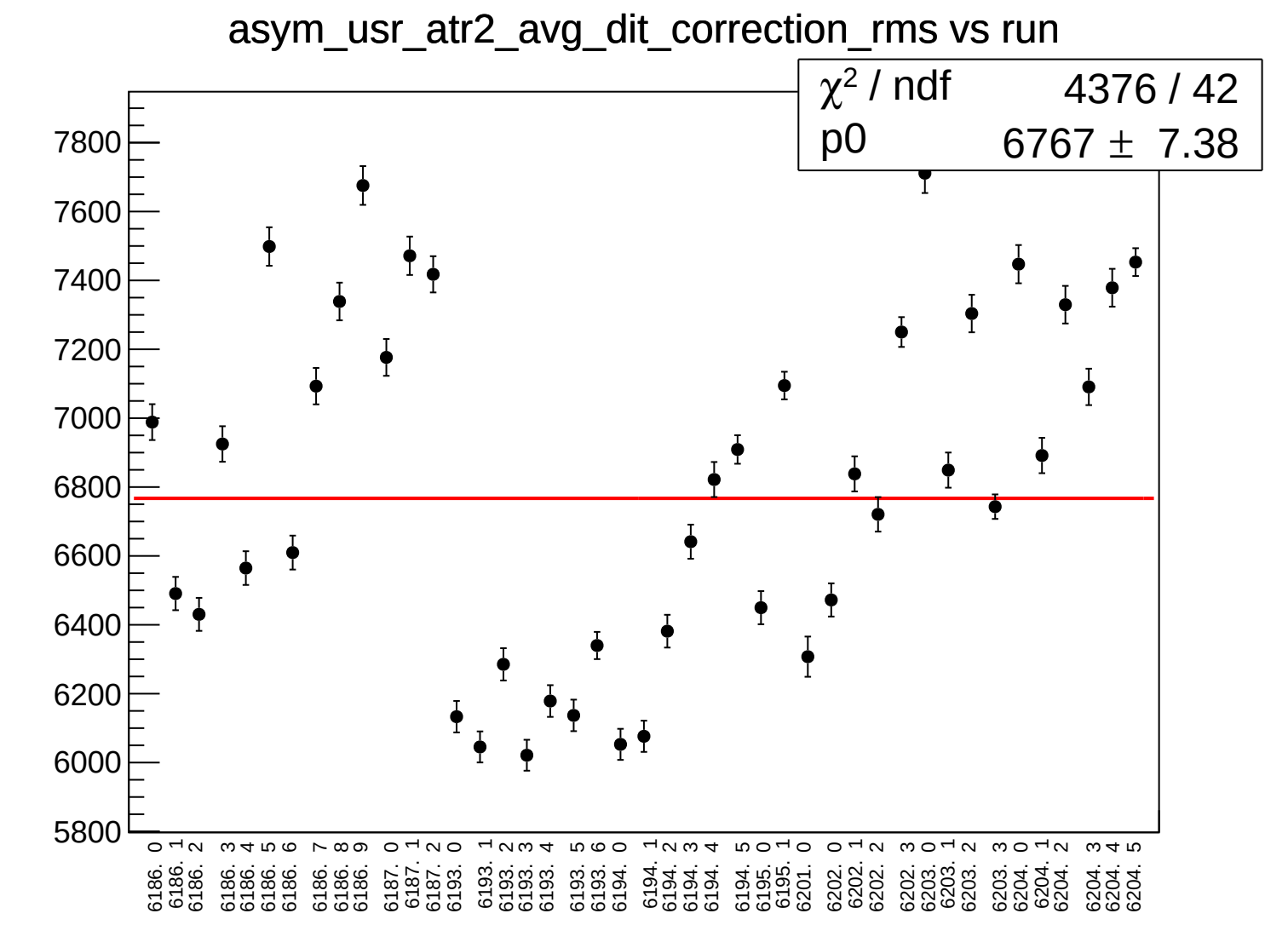
6
8


asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 4376 / 42
p0 6767 ± 7.38
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
6186. 0
6186. 1
6186. 2
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6186. 5
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6186. 7
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6193. 0
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6202. 0
6202. 1
6202. 2
6202. 3
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6204. 2
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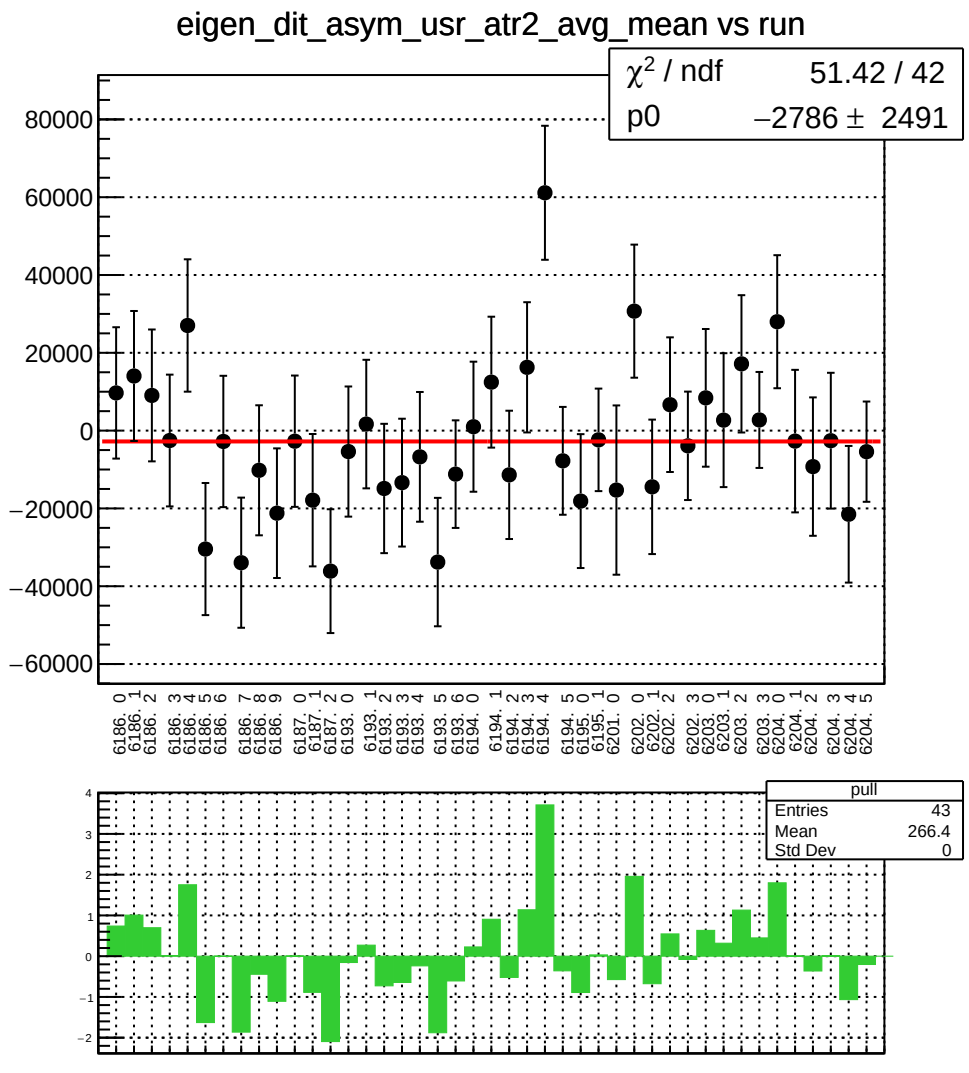
6204. 5


eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 51.42 / 42
p0 −2786 ± 2491
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
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6186. 6
6186. 7
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6187. 0
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6187. 2
6193. 0
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6204. 5
pull
Entries 43
Mean 266.4
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.007882
Std Dev 1.094
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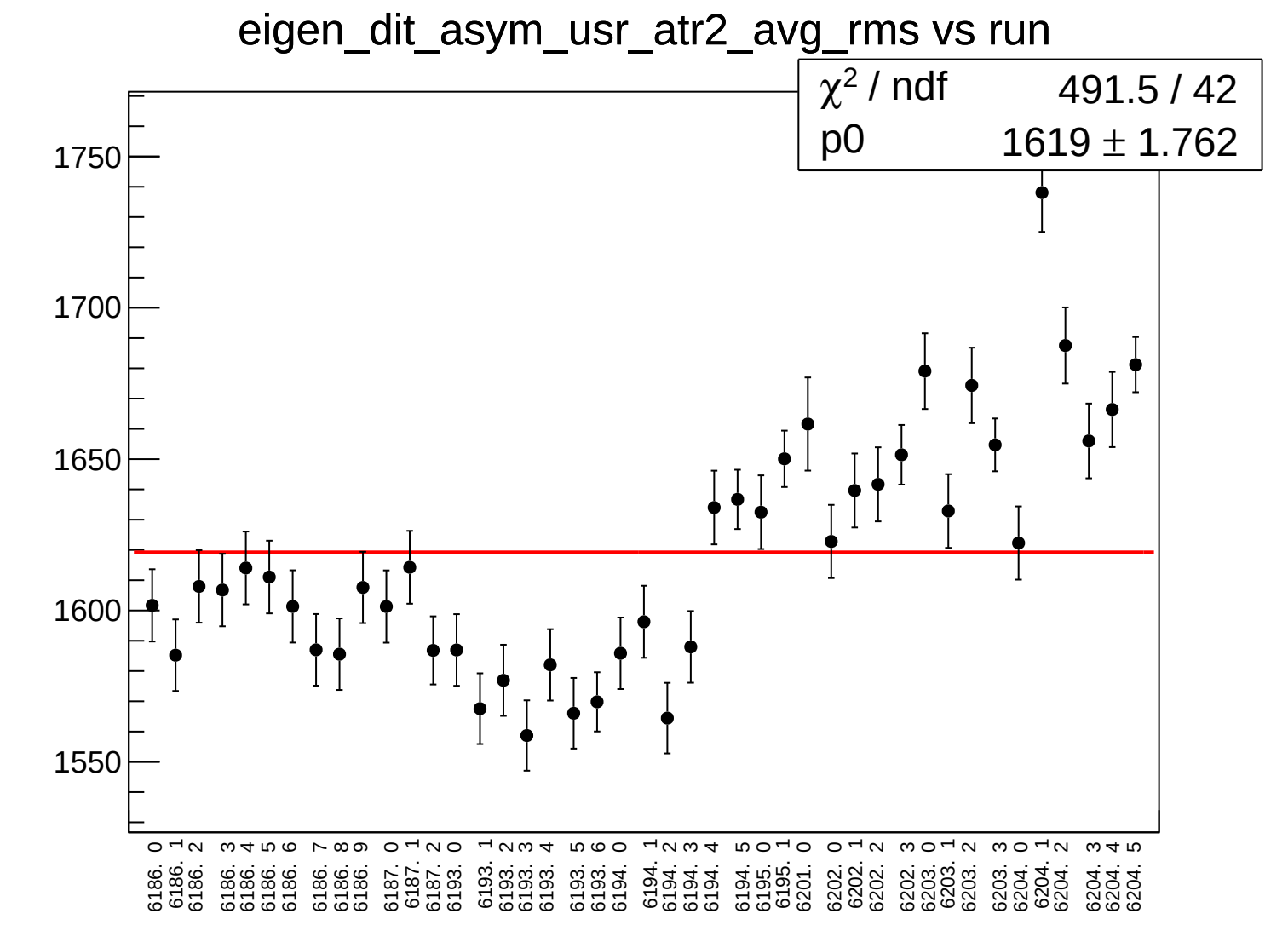
eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 491.5 / 42
p0 1619 ± 1.762
1750
1700
1650
1600
1550
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 9
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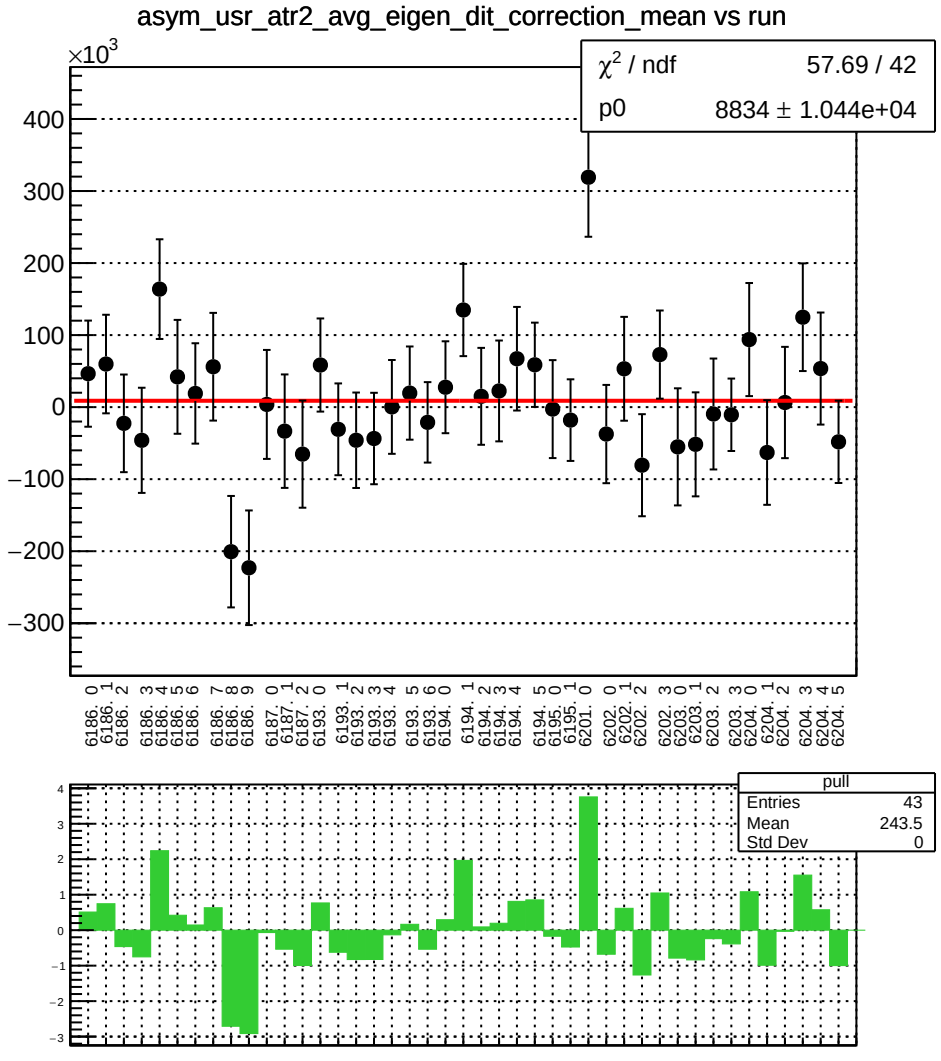
asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 57.69 / 42
p0 8834 ± 1.044e+04
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
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6186. 8
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6187. 0
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6187. 2
6193. 0
6193. 1
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6193. 4
6193. 5
6193. 6
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6194. 2
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6201. 0
6202. 0
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6202. 2
6202. 3
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6203. 1
6203. 2
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6204. 0
6204. 1
6204. 2
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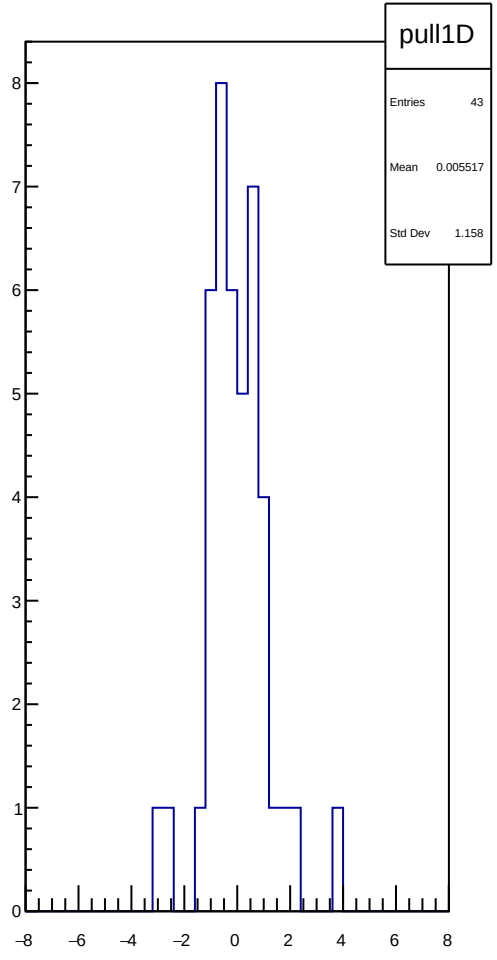
6204. 4
6204. 5
pull
Entries 43
Mean 243.5
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.005517
Std Dev 1.158
8
7
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5
4
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1
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−4
−2
0
2
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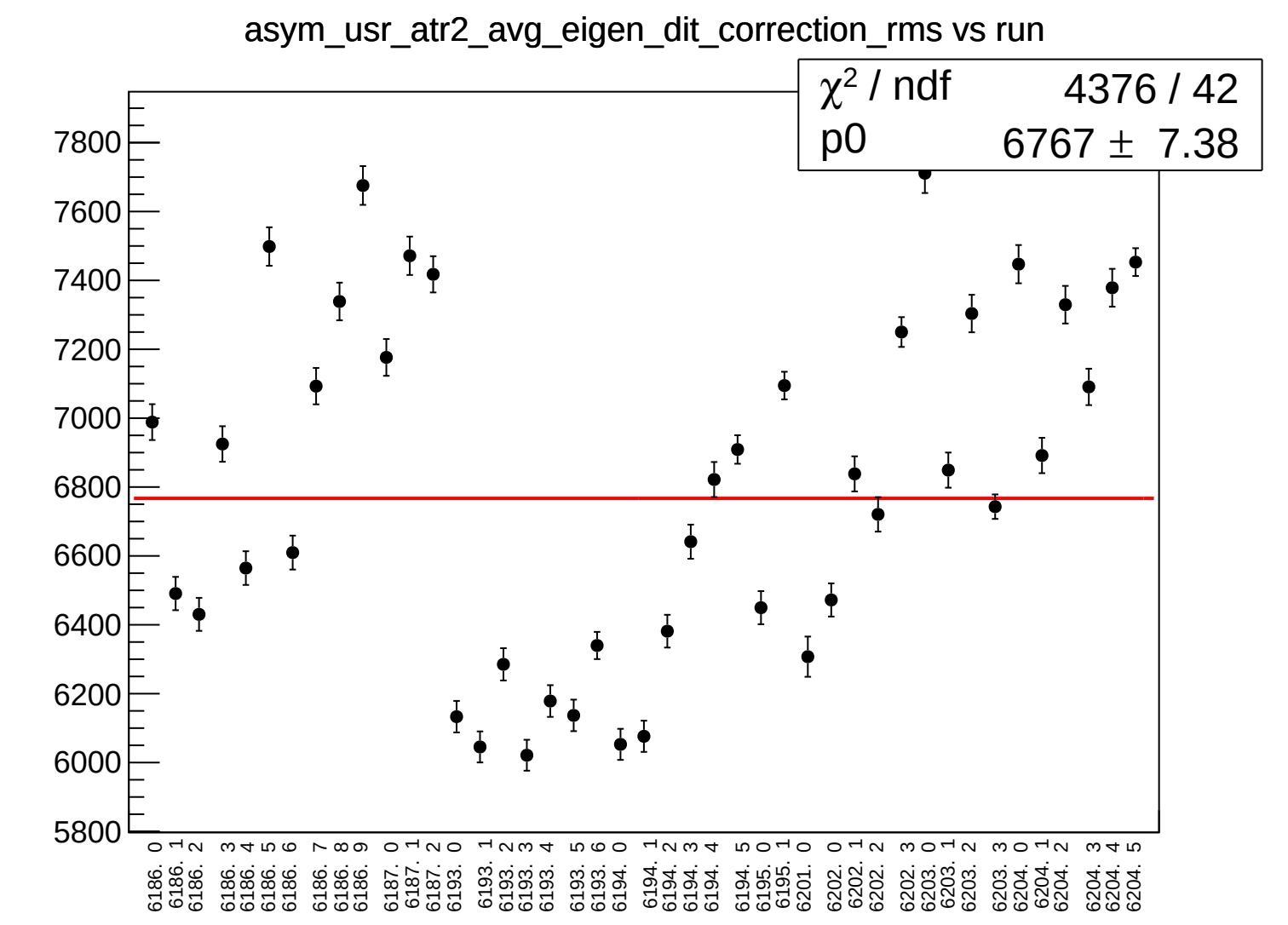
8


asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4376 / 42
p0 6767 ± 7.38
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
6186. 0
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6186. 9
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6202. 2
6202. 3
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6203. 2
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6204. 1
6204. 2
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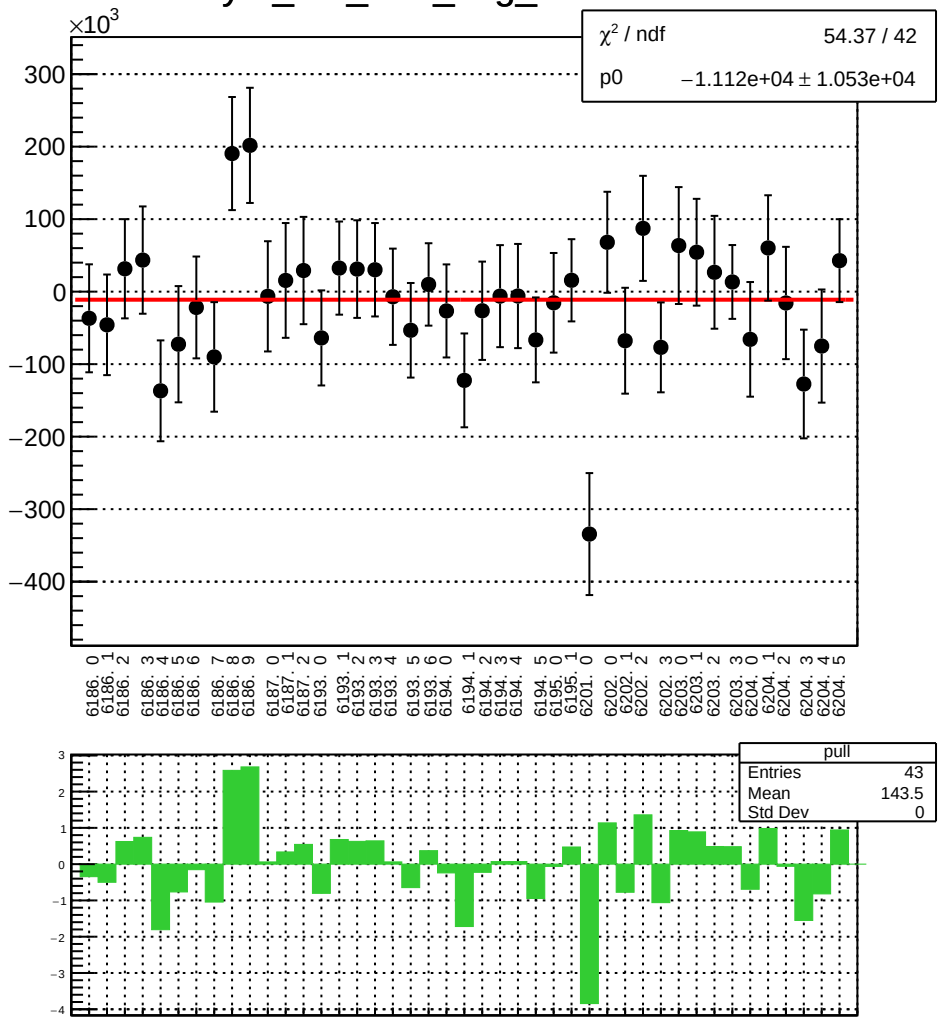
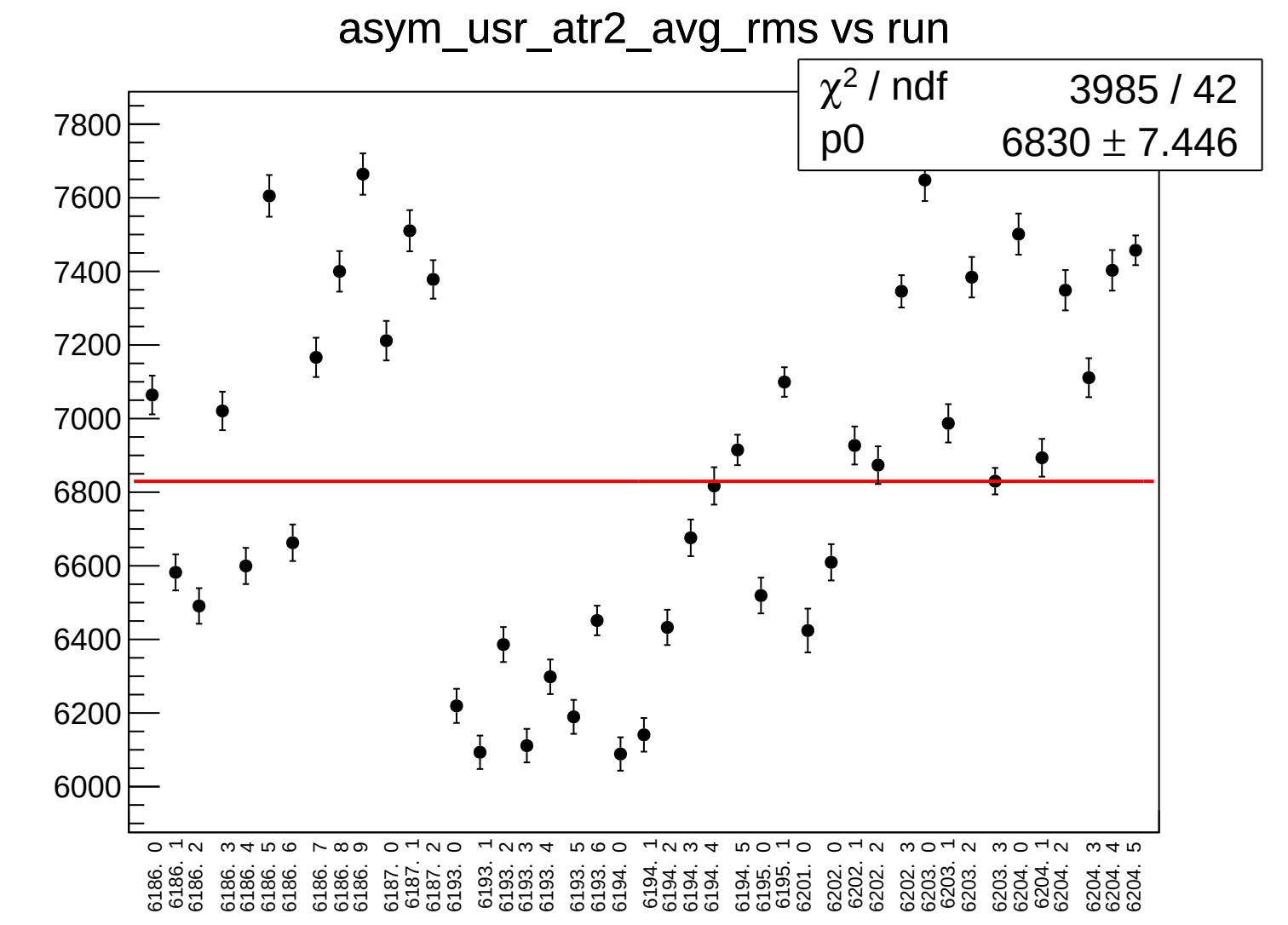
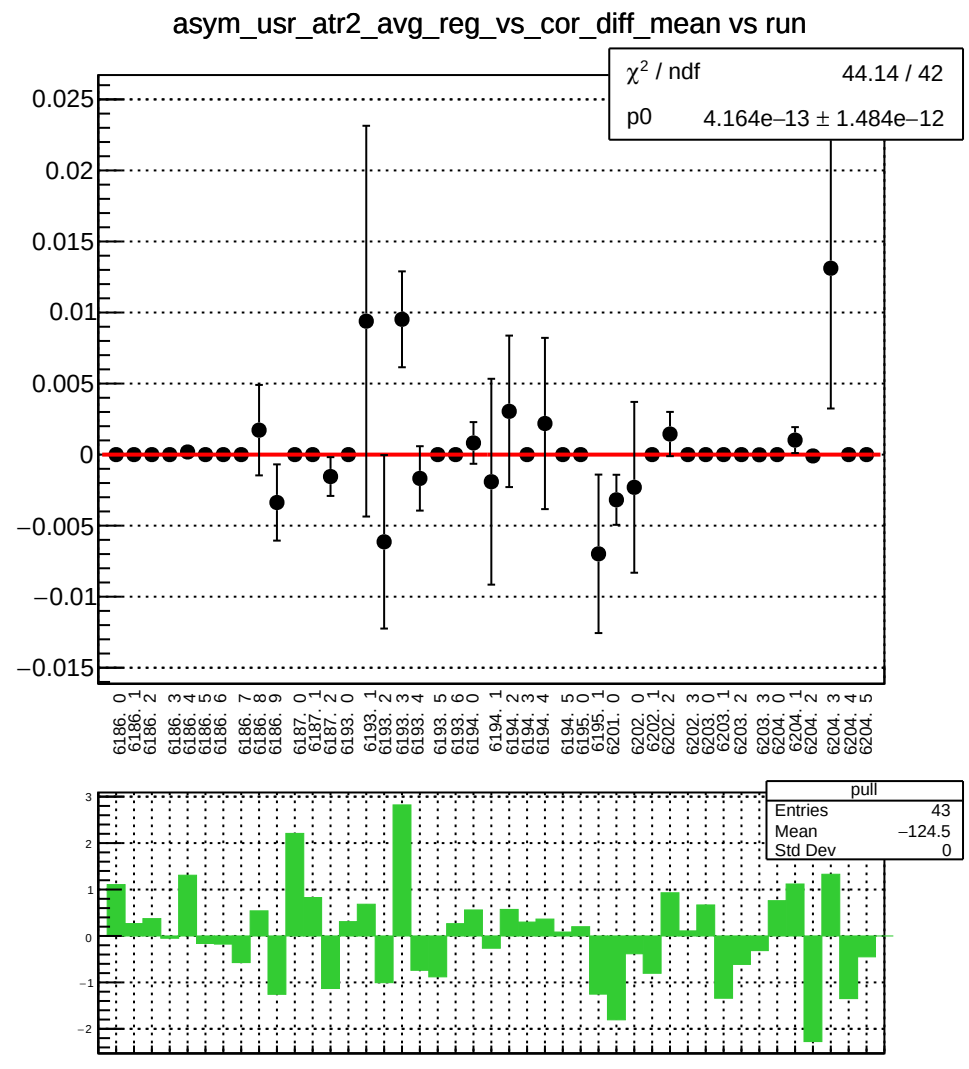
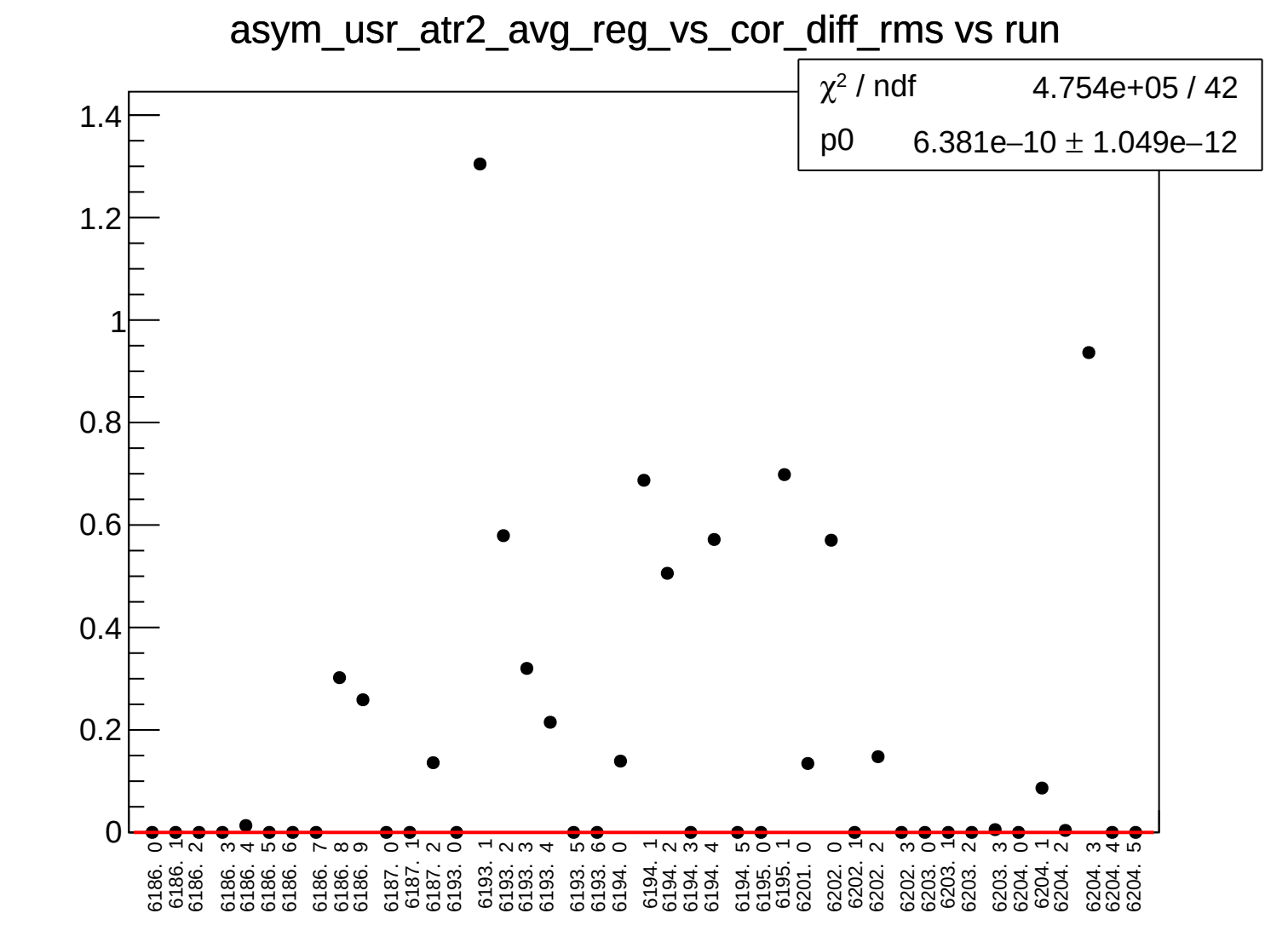
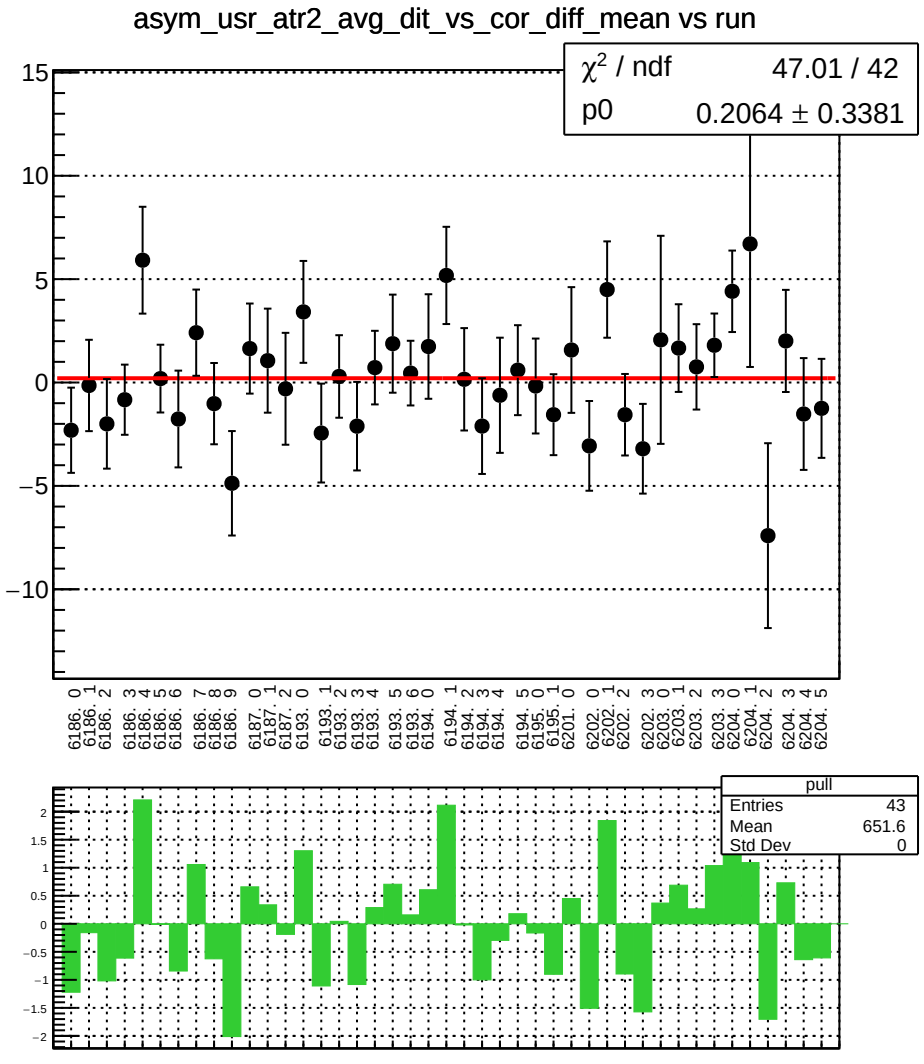
6204. 4
6204. 5

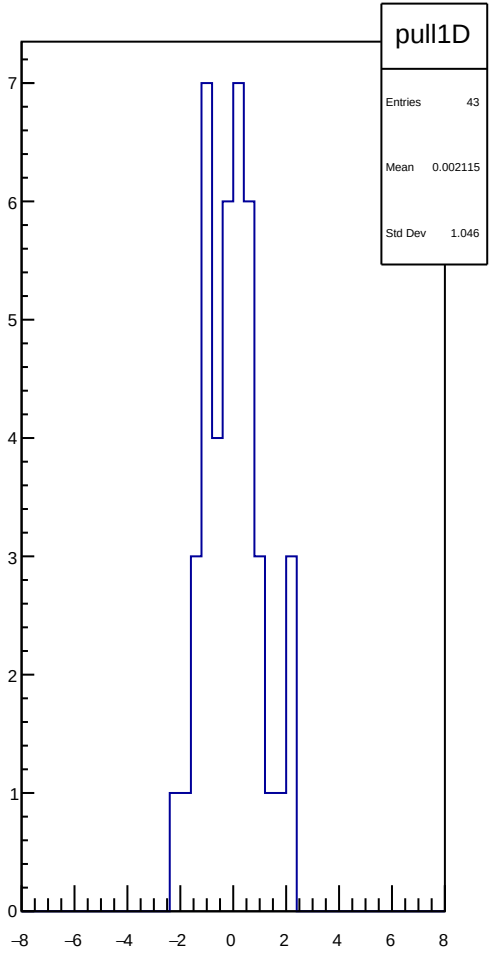

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 54.37 / 42
p0 −1.112e+04 ± 1.053e+04
300
200
100
0
−100
−200
−300
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 143.5
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.006788
Std Dev 1.124
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

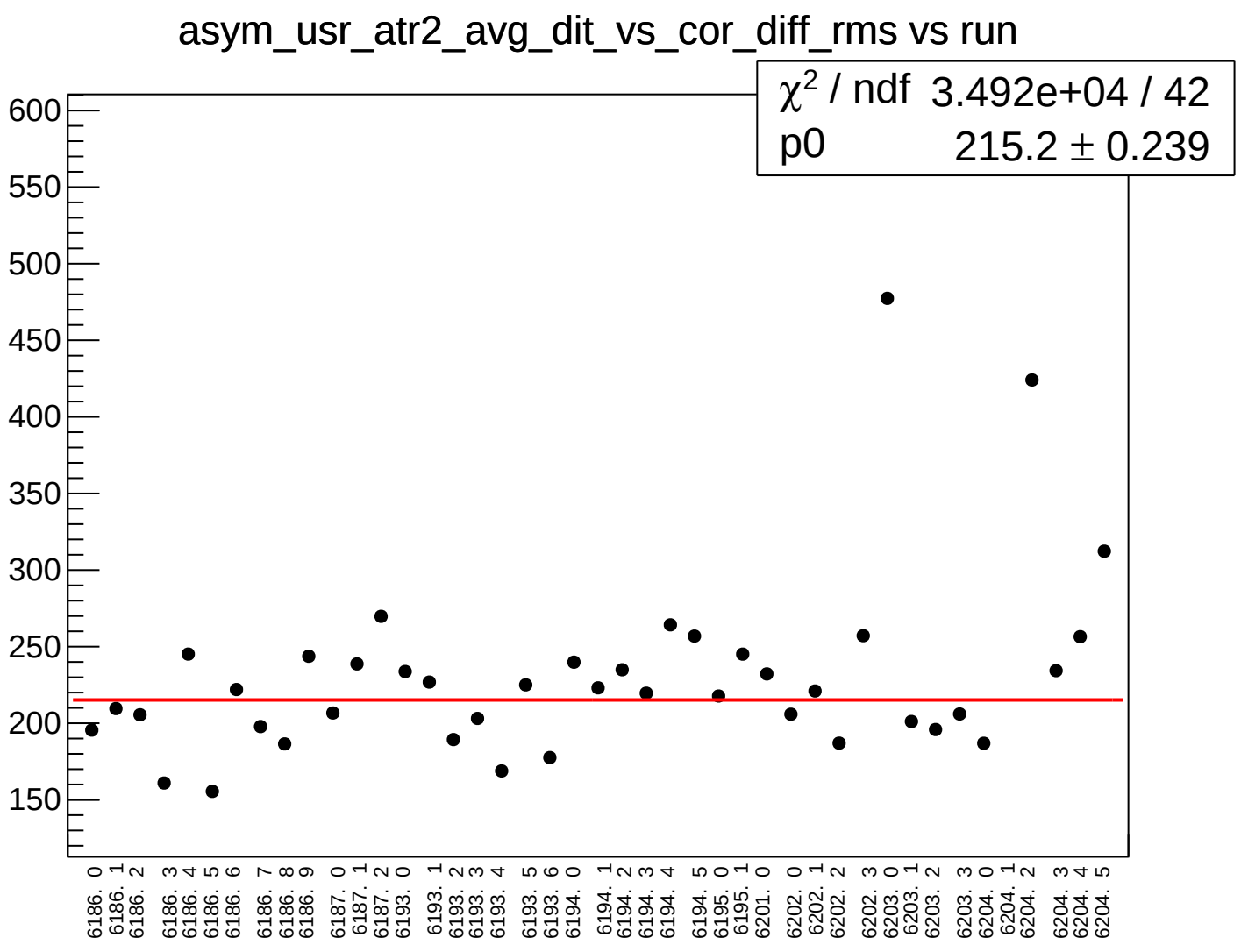

asym_usr_atr2_avg_rms vs run
χ² / ndf 3985 / 42
p0 6830 ± 7.446
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

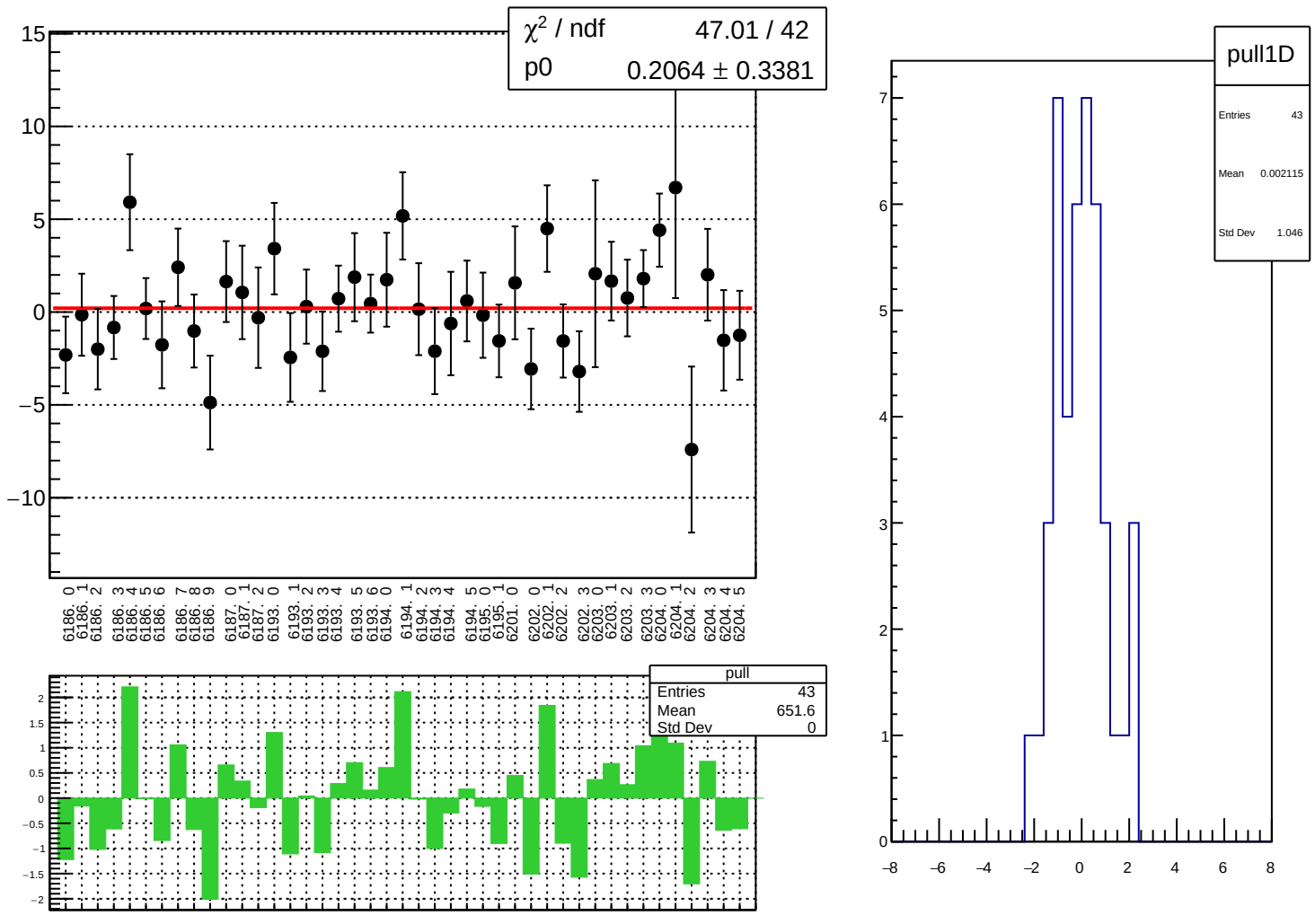

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 44.14 / 42
p0 4.164e−13 ± 1.484e−12
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −124.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02054
Std Dev 1.013
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

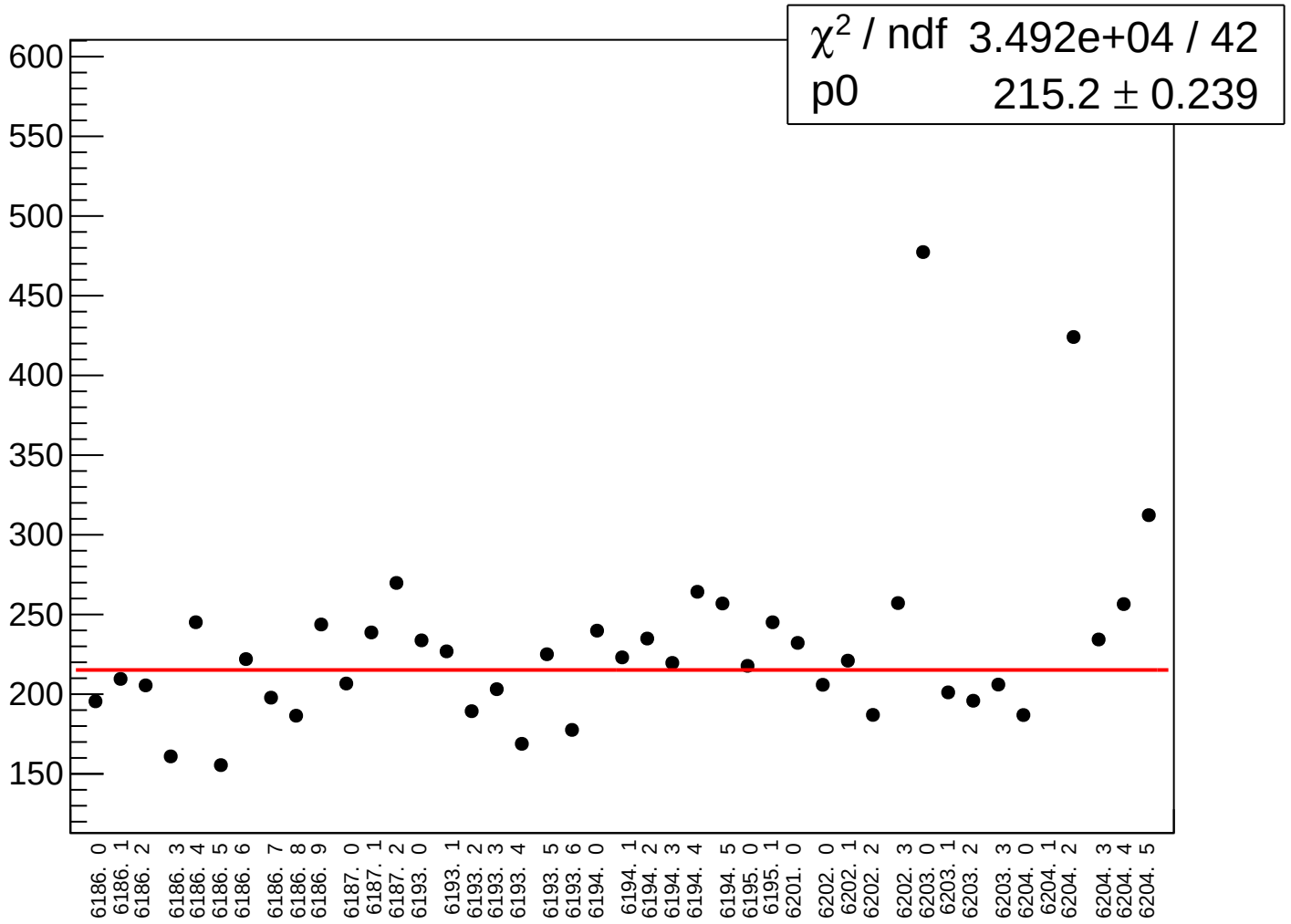

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.754e+05 / 42
p0 6.381e−10 ± 1.049e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

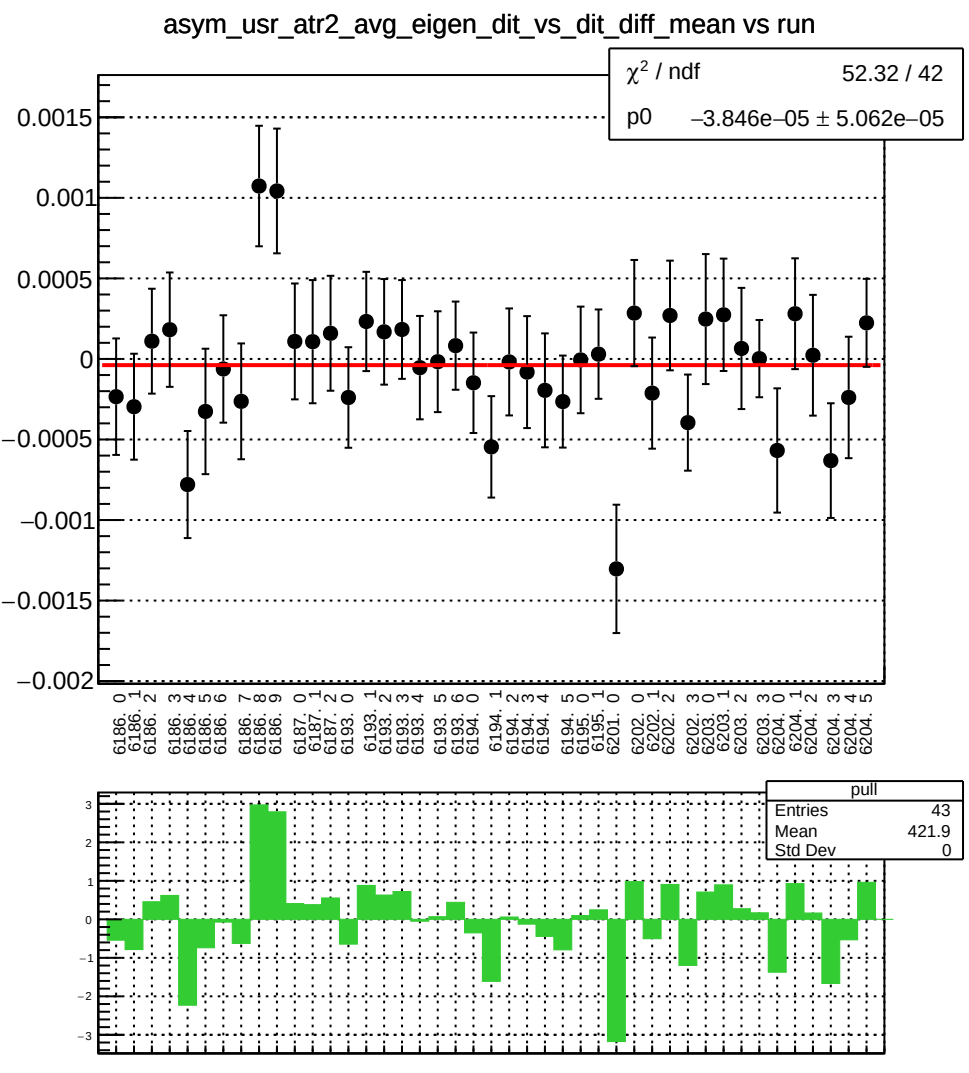

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 47.01 / 42
p0 0.2064 ± 0.3381
15
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 651.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

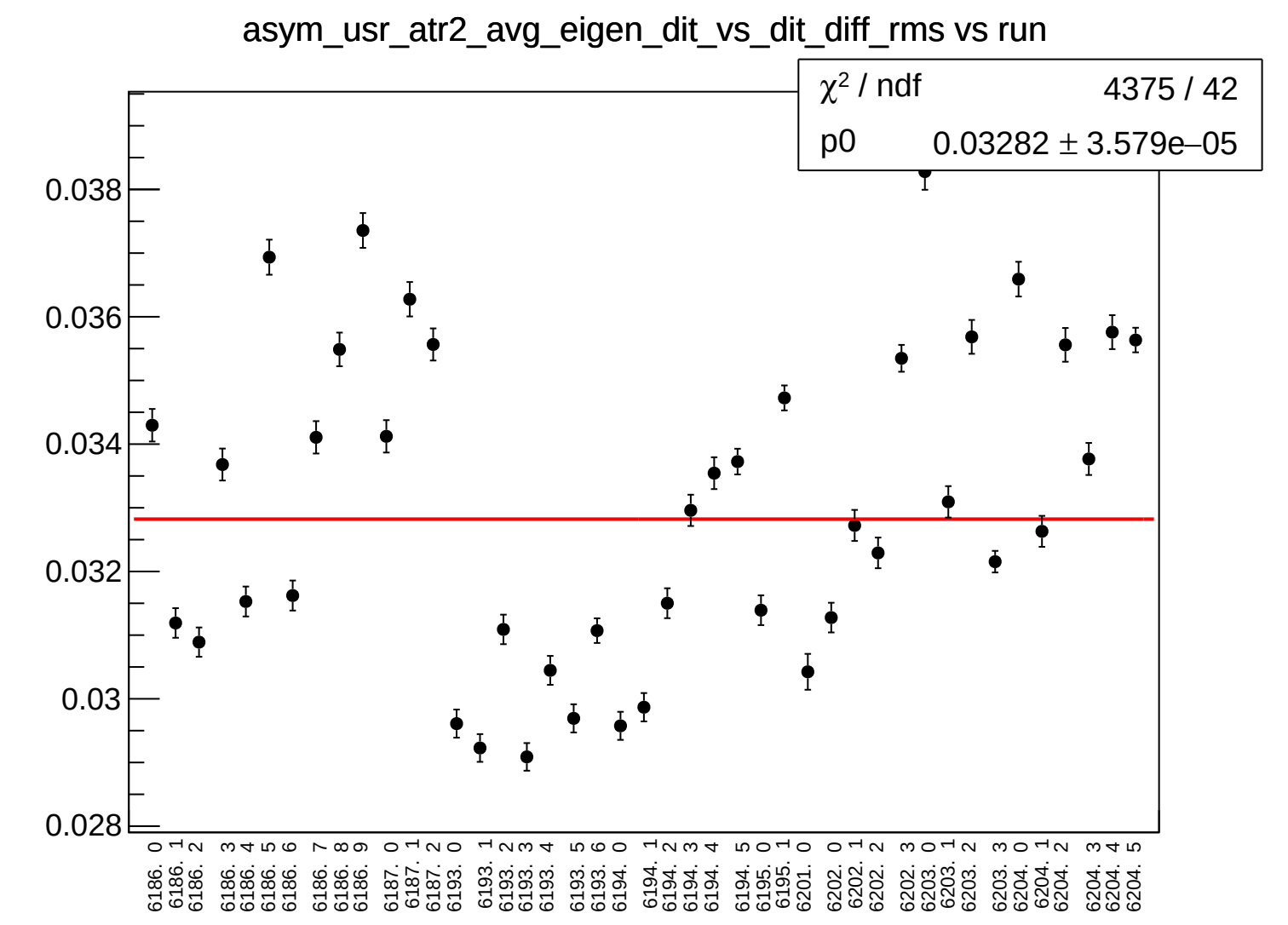

pull1D
Entries 43
Mean 0.002115
Std Dev 1.046
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

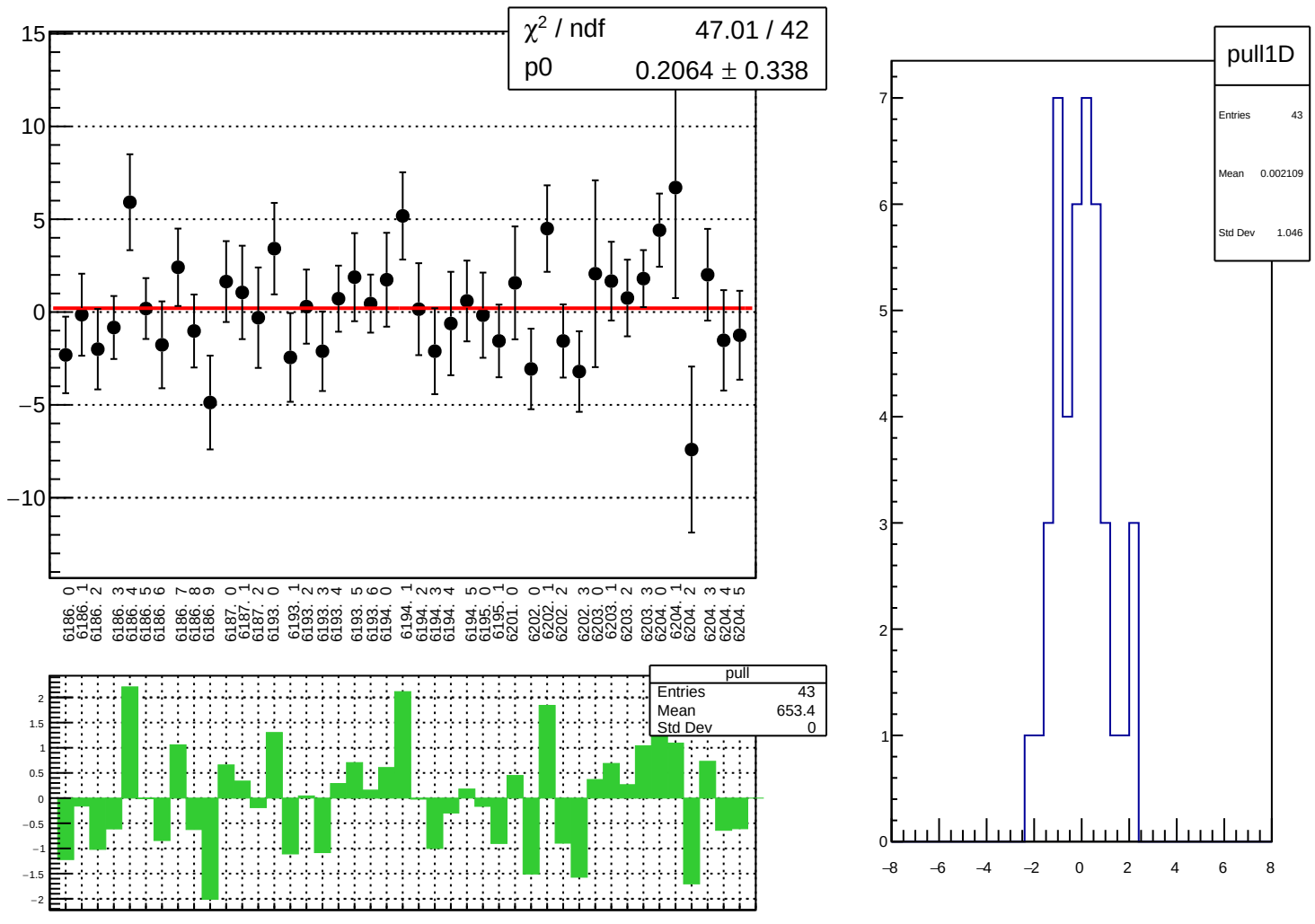

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.492e+04 / 42
p0 215.2 ± 0.239
600
550
500
450
400
350
300
250
200
150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

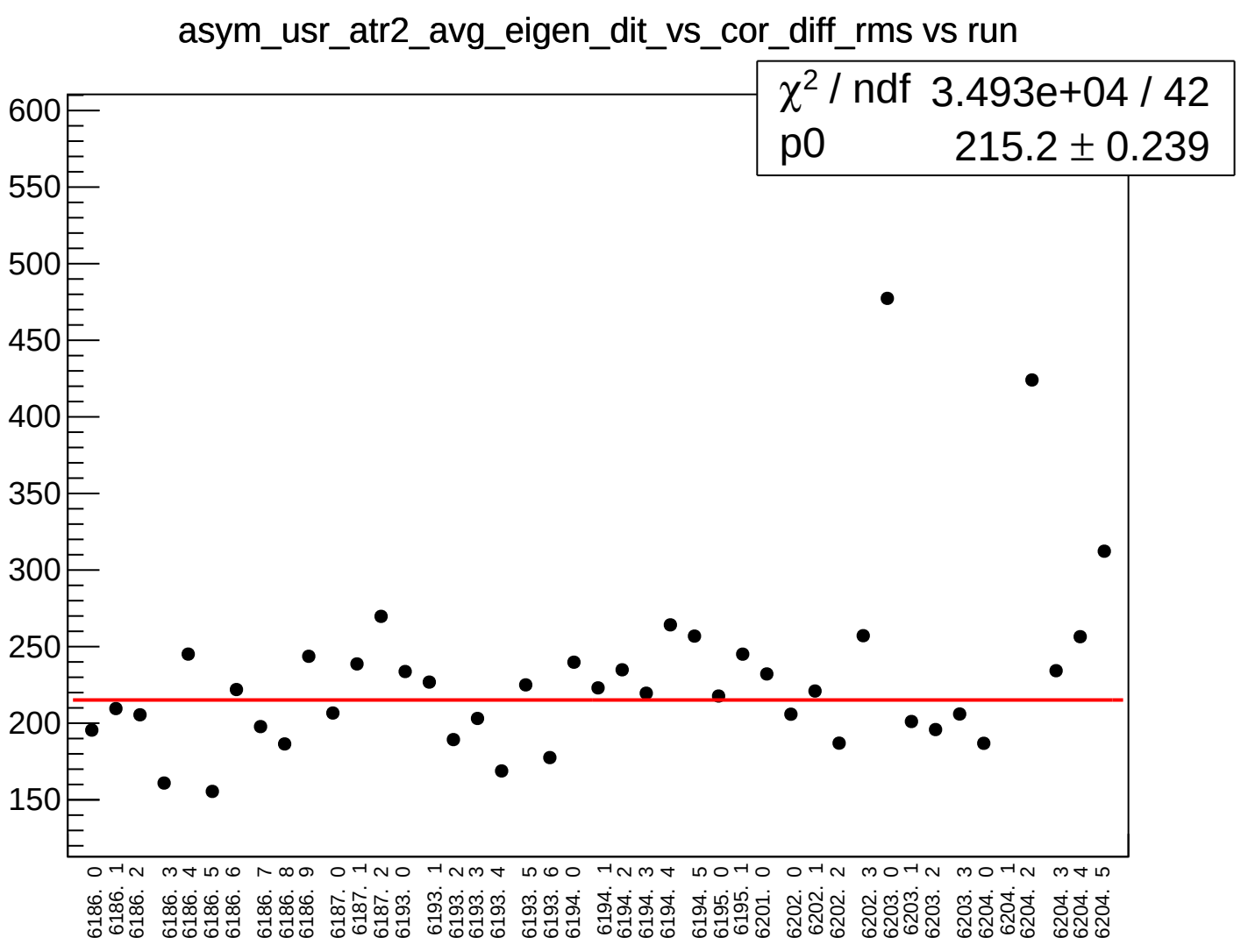

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.01 / 42
p0 0.2064 ± 0.3381
15
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 651.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.002115
Std Dev 1.046
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

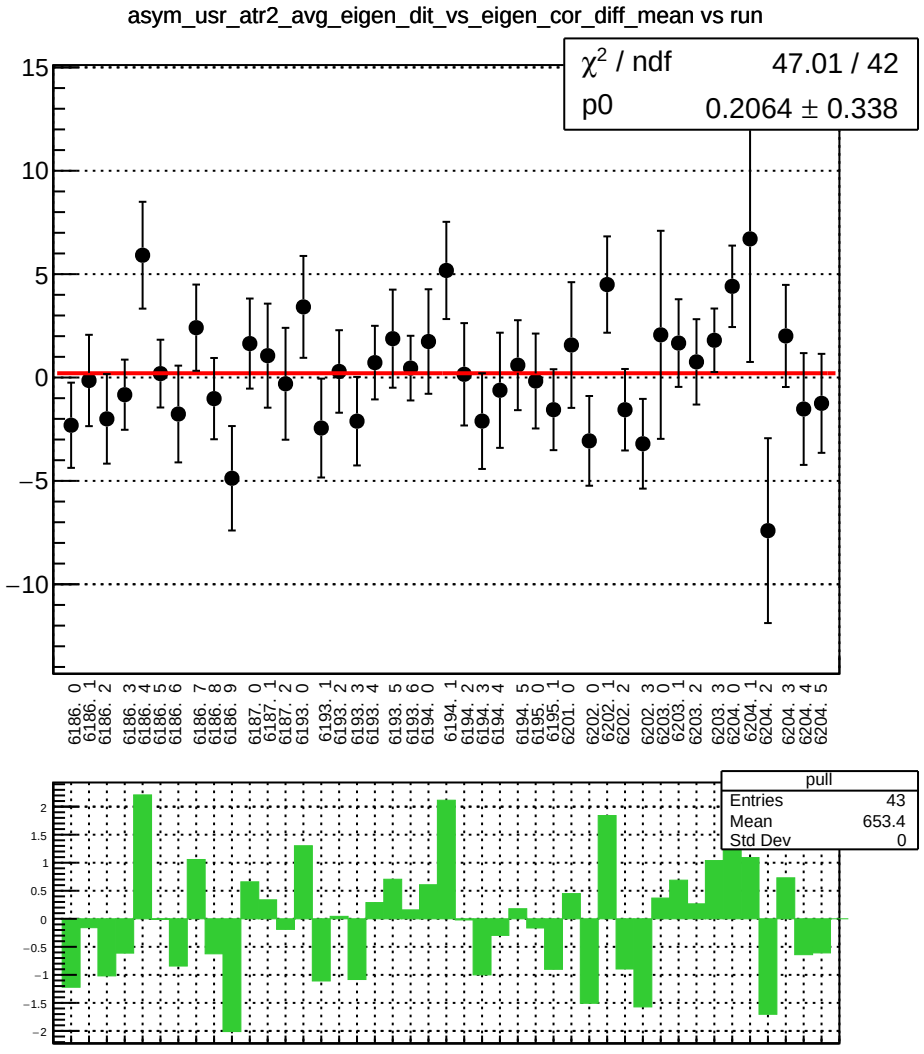

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.492e+04 / 42
p0 215.2 ± 0.239
600
550
500
450
400
350
300
250
200
150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

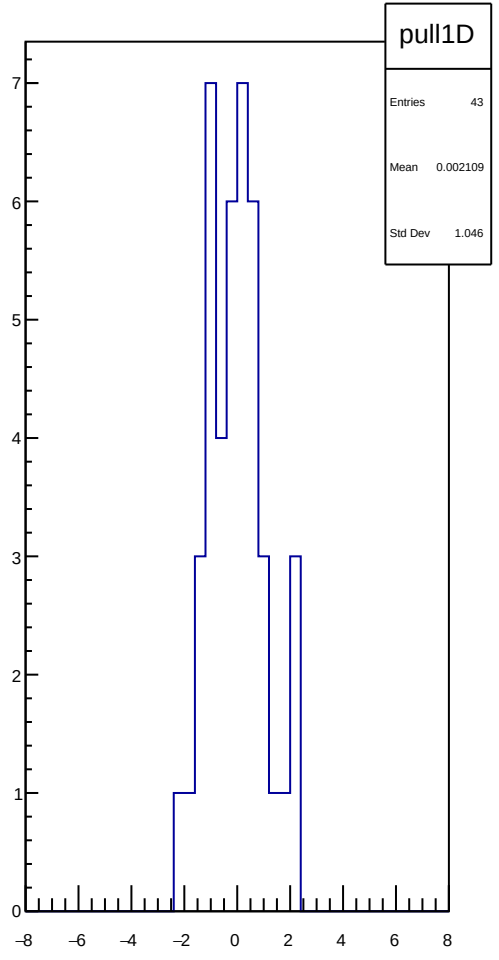

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 52.32 / 42
p0 −3.846e−05 ± 5.062e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 421.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.00303
Std Dev 1.103
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

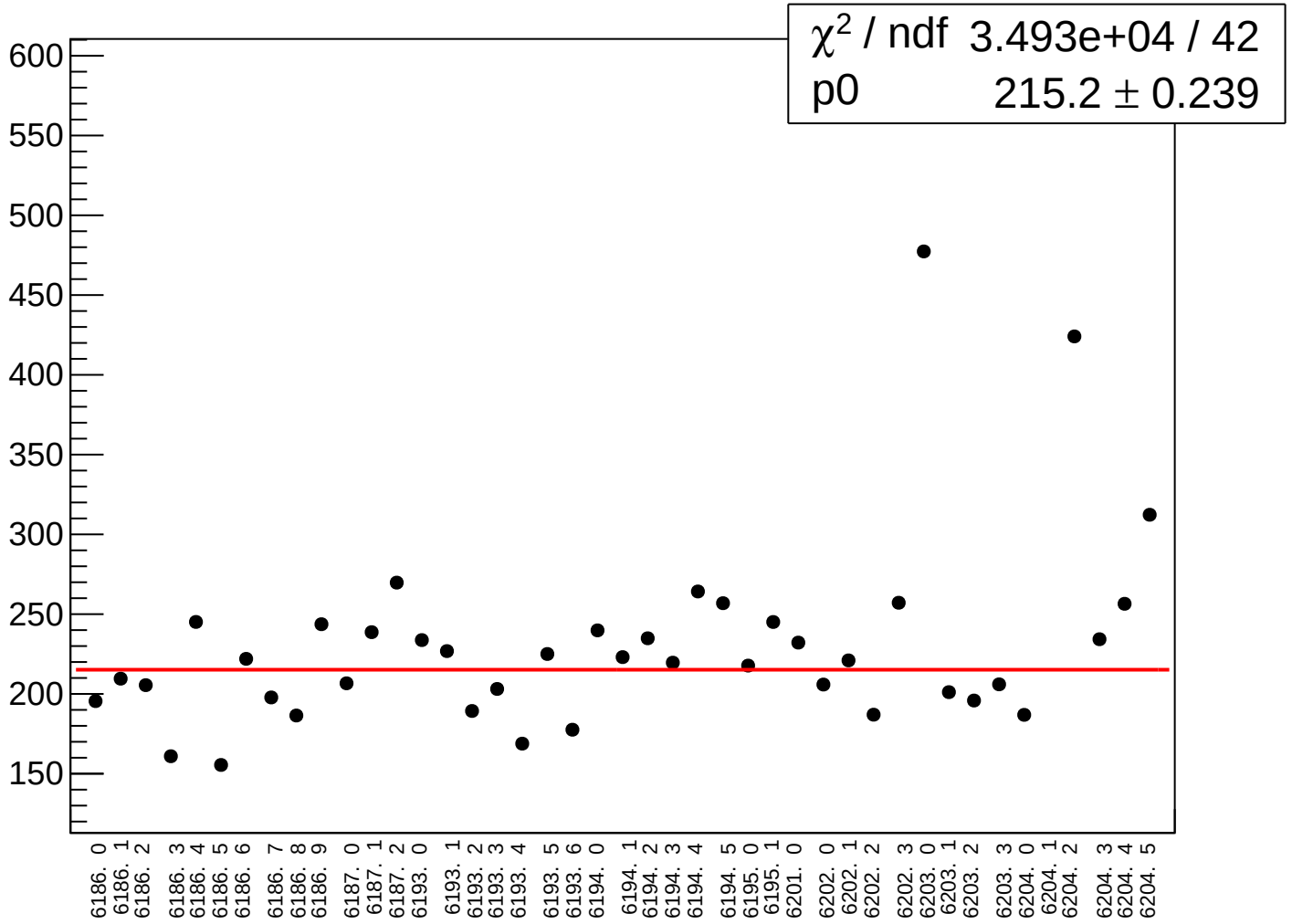

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4375 / 42
p0 0.03282 ± 3.579e–05
0.038
0.036
0.034
0.032
0.03
0.028
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

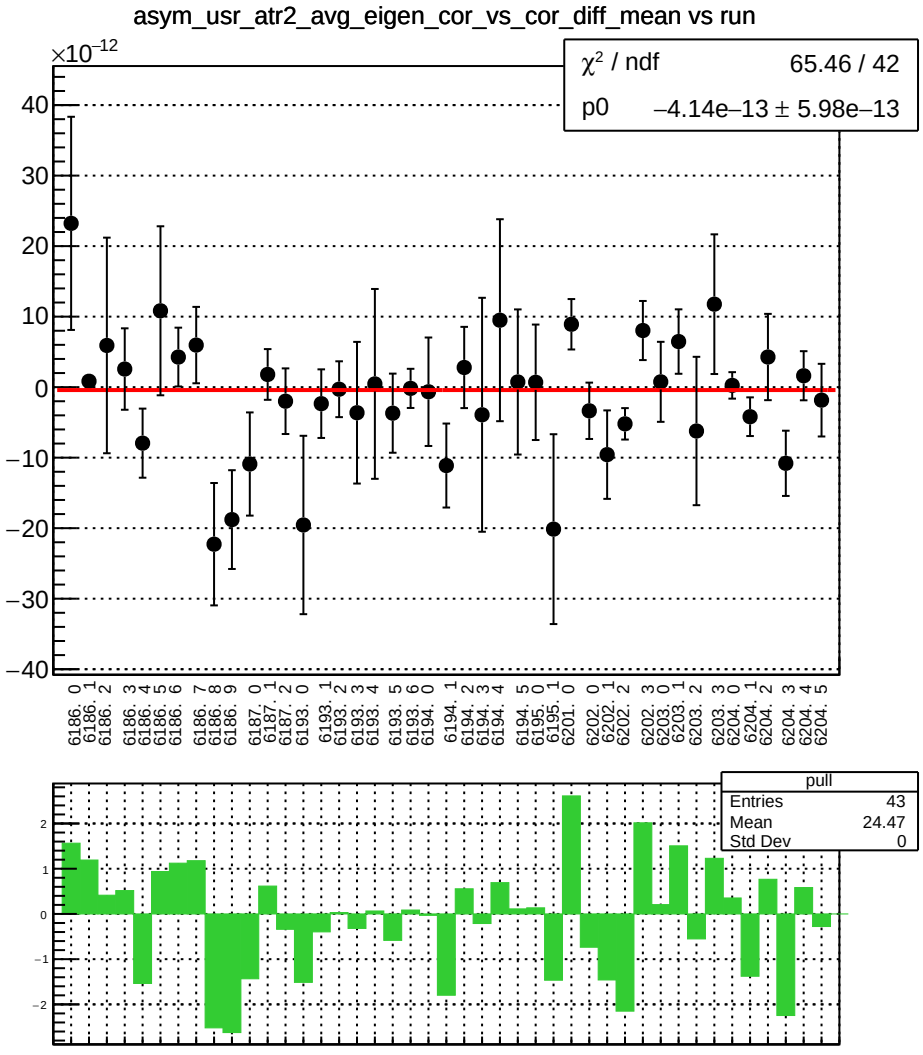

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.01 / 42
p0 0.2064 ± 0.338
15
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 653.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.002109
Std Dev 1.046
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

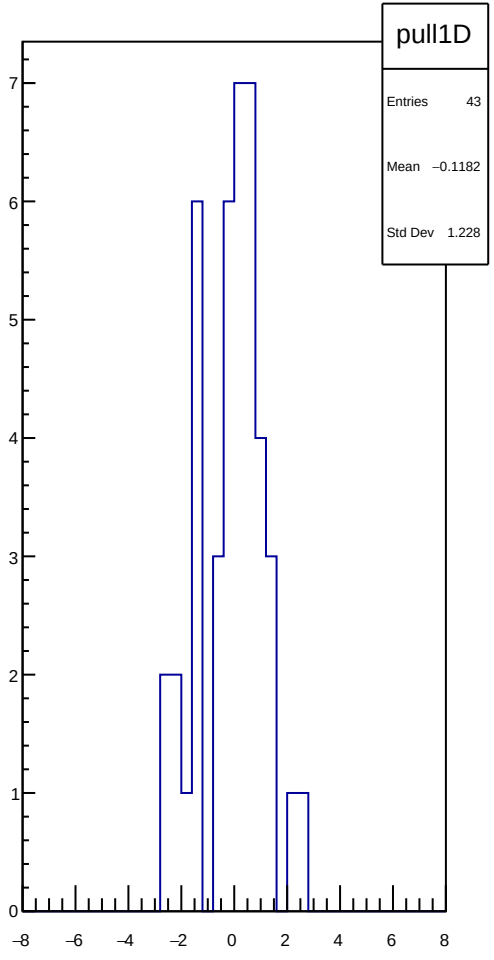

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.493e+04 / 42
p0 215.2 ± 0.239
600
550
500
450
400
350
300
250
200
150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

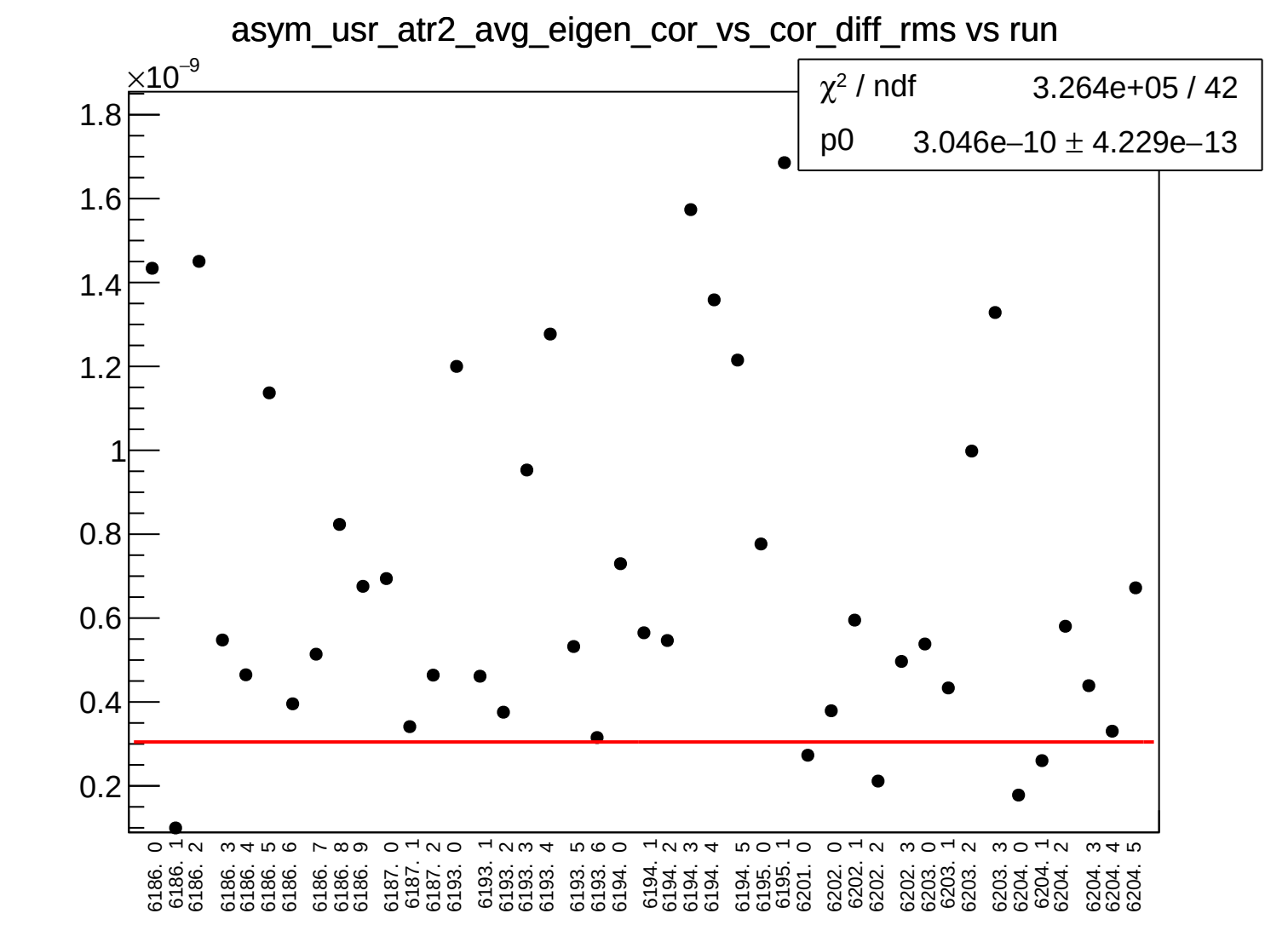

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.01 / 42
p0 0.2064 ± 0.338
pull
Entries 43
Mean 653.4
Std Dev 0

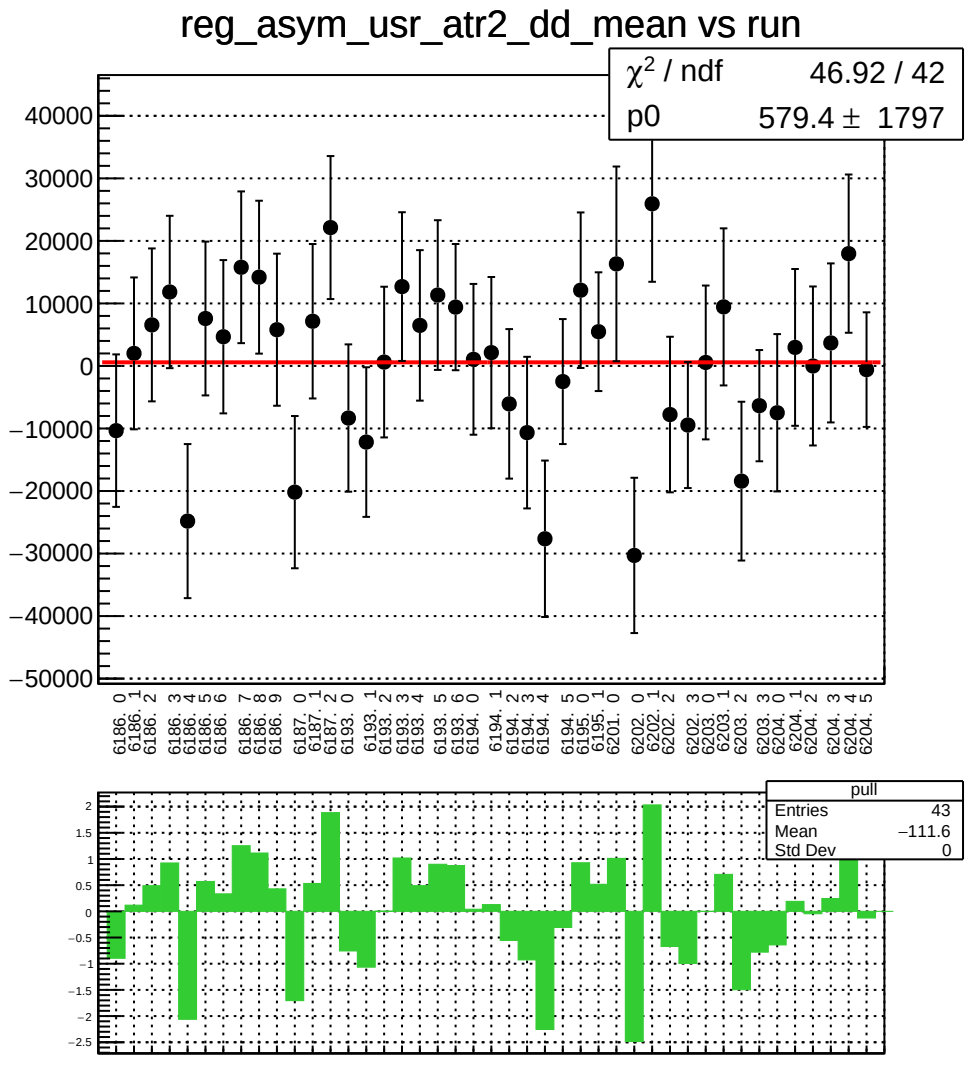

pull1D
Entries 43
Mean 0.002109
Std Dev 1.046

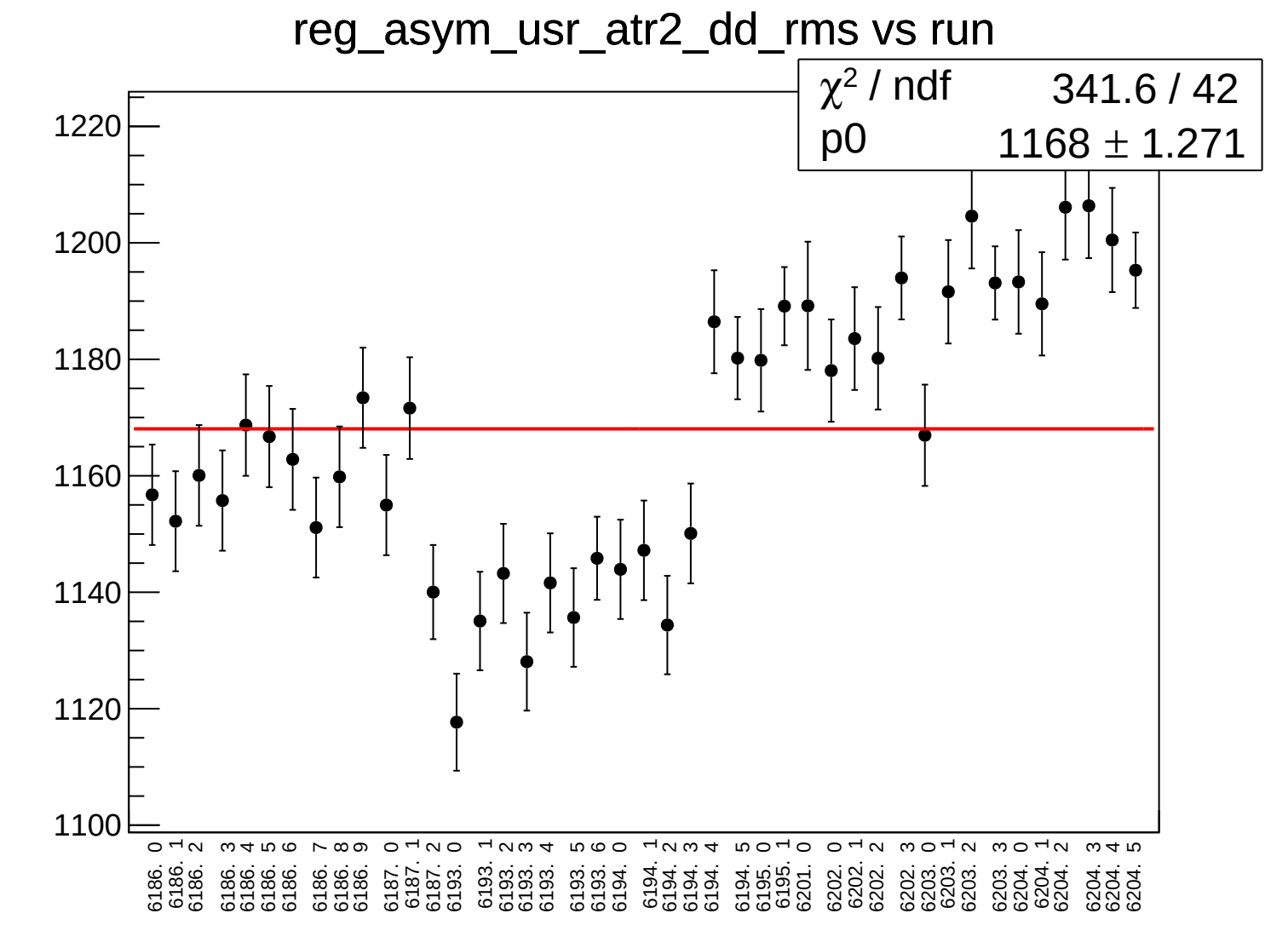

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.493e+04 / 42
p0 215.2 ± 0.239
600
550
500
450
400
350
300
250
200
150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

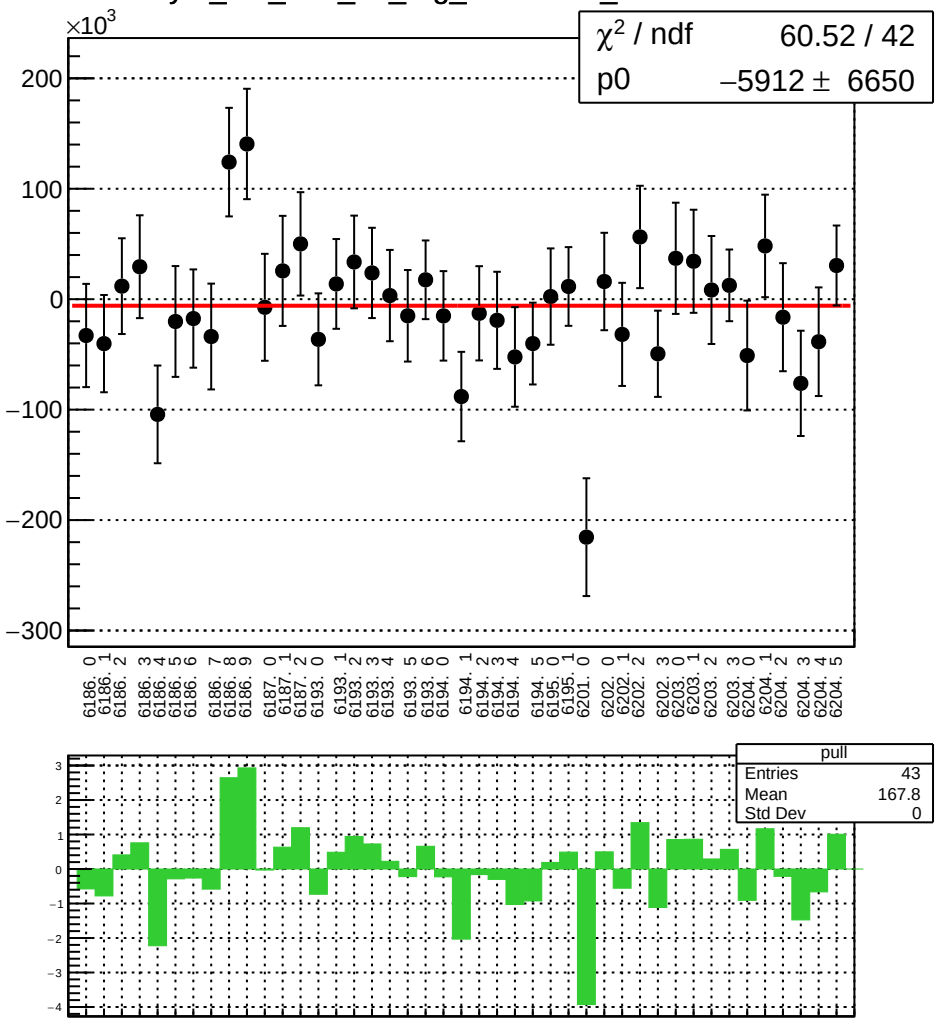

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.46 / 42
p0 −4.14e−13 ± 5.98e−13
40
30
20
10
0
−10
−20
−30
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 24.47
Std Dev 0
2
1
0
−1
−2

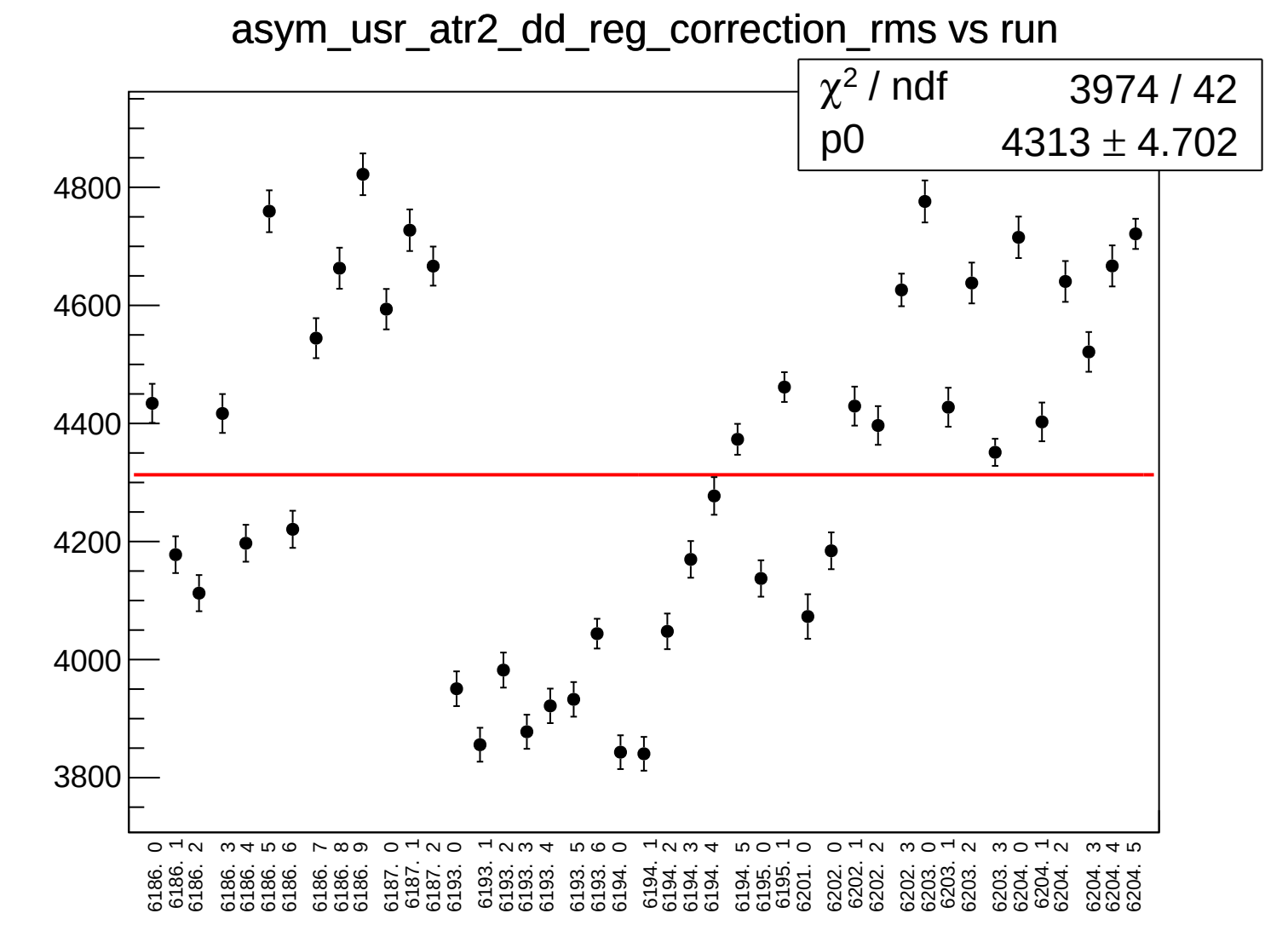

pull1D
Entries 43
Mean −0.1182
Std Dev 1.228
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

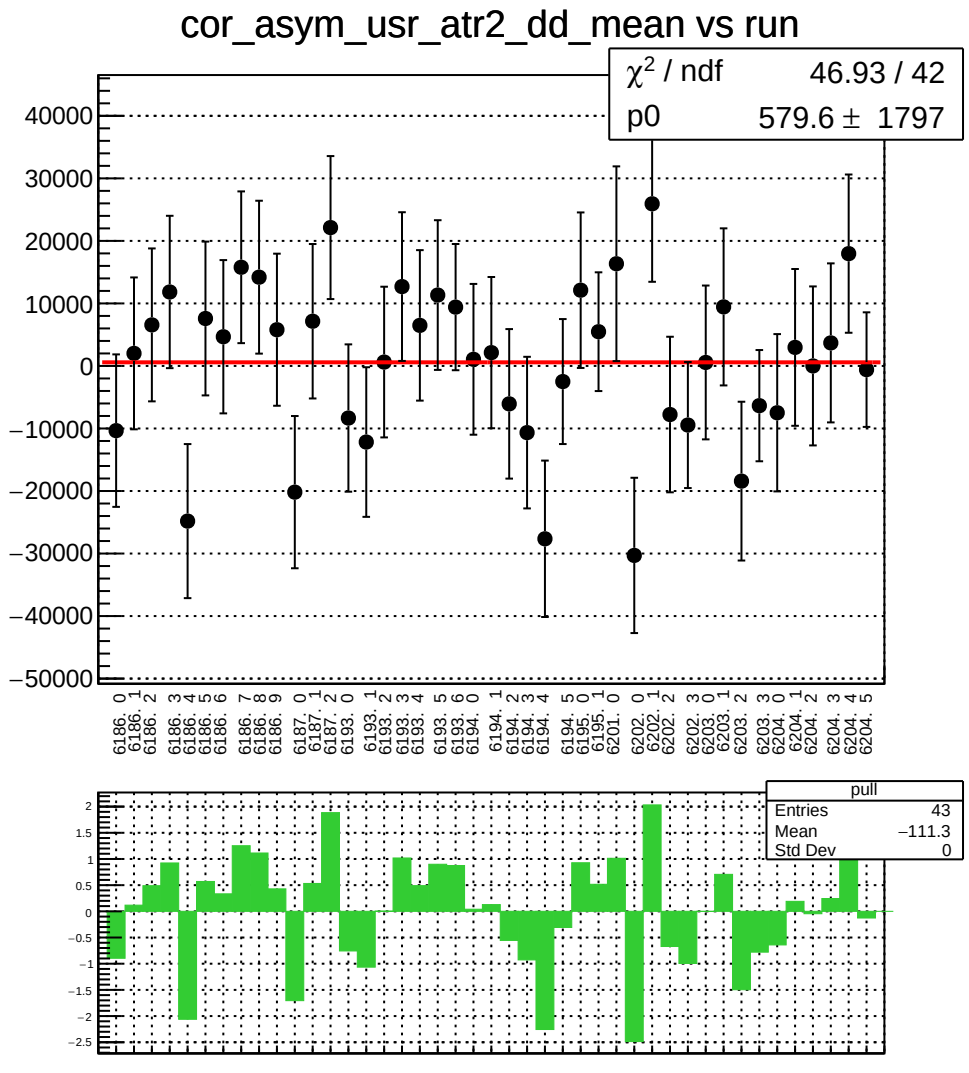

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.264e+05 / 42
p0 3.046e−10 ± 4.229e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

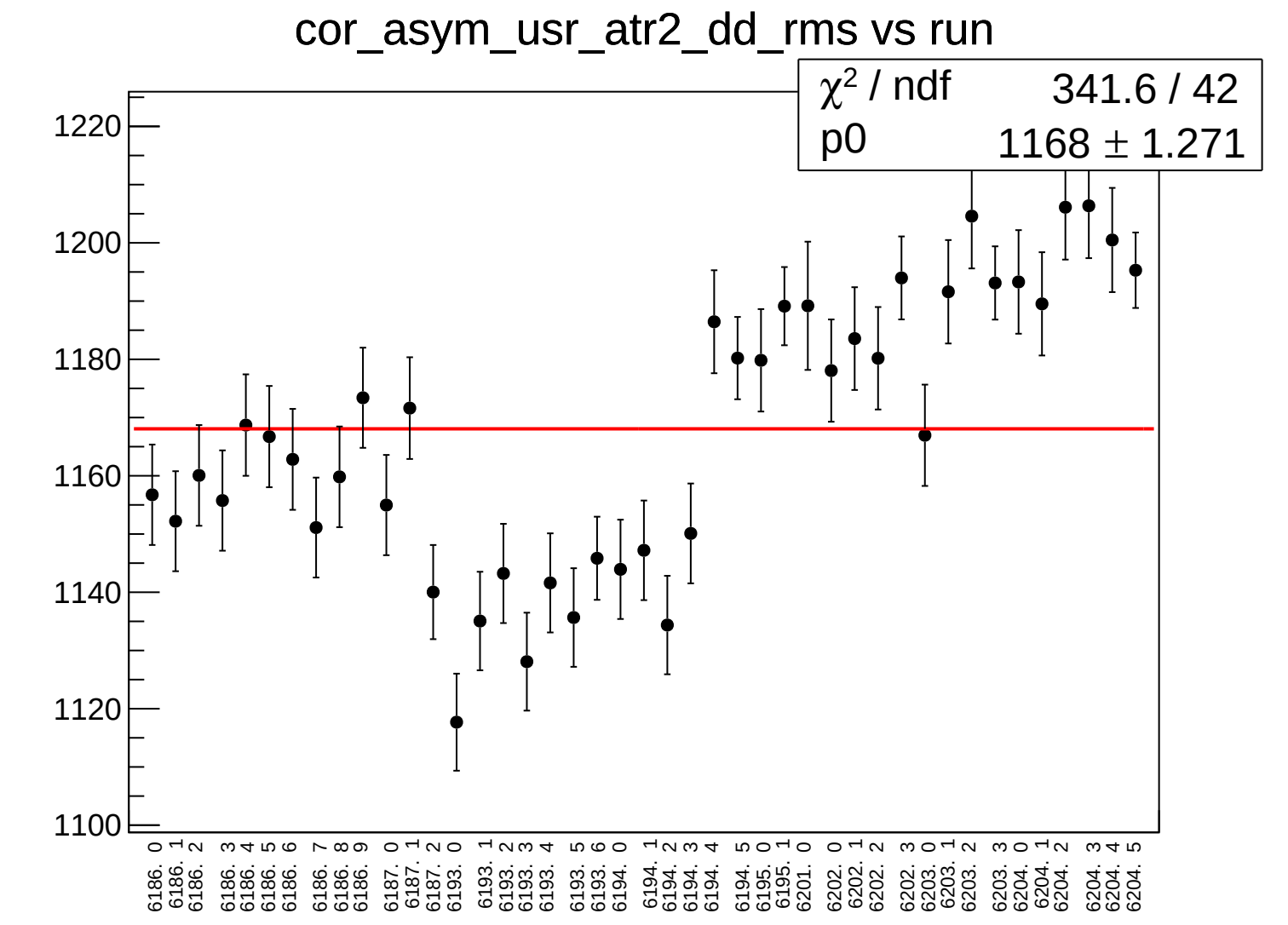

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 46.92 / 42
p0 579.4 ± 1797
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −111.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.007695
Std Dev 1.045
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 341.6 / 42
p0 1168 ± 1.271
1220
1200
1180
1160
1140
1120
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 60.52 / 42
p0 −5912 ± 6650
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 167.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.007856
Std Dev 1.186
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 3974 / 42
p0 4313 ± 4.702
4800
4600
4400
4200
4000
3800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 46.93 / 42
p0 579.6 ± 1797
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −111.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.007706
Std Dev 1.045
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 341.6 / 42
p0 1168 ± 1.271
1220
1200
1180
1160
1140
1120
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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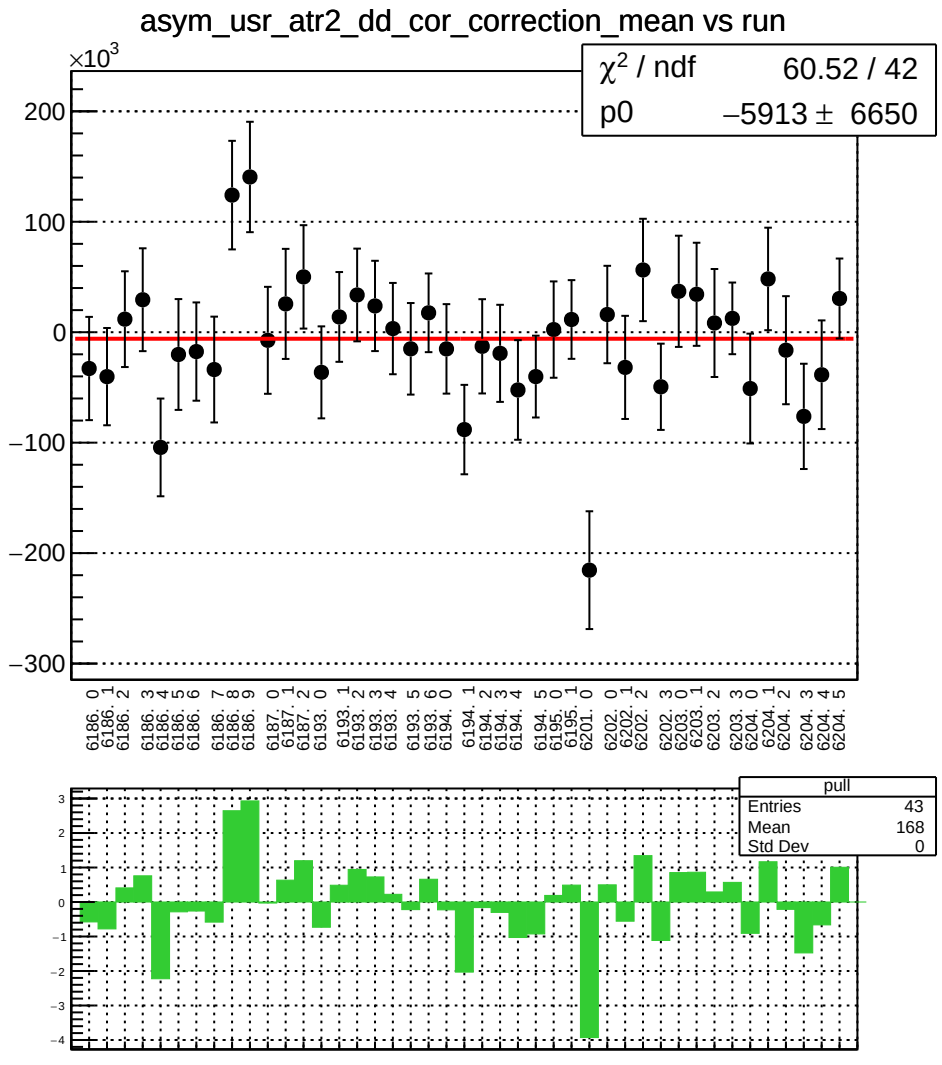
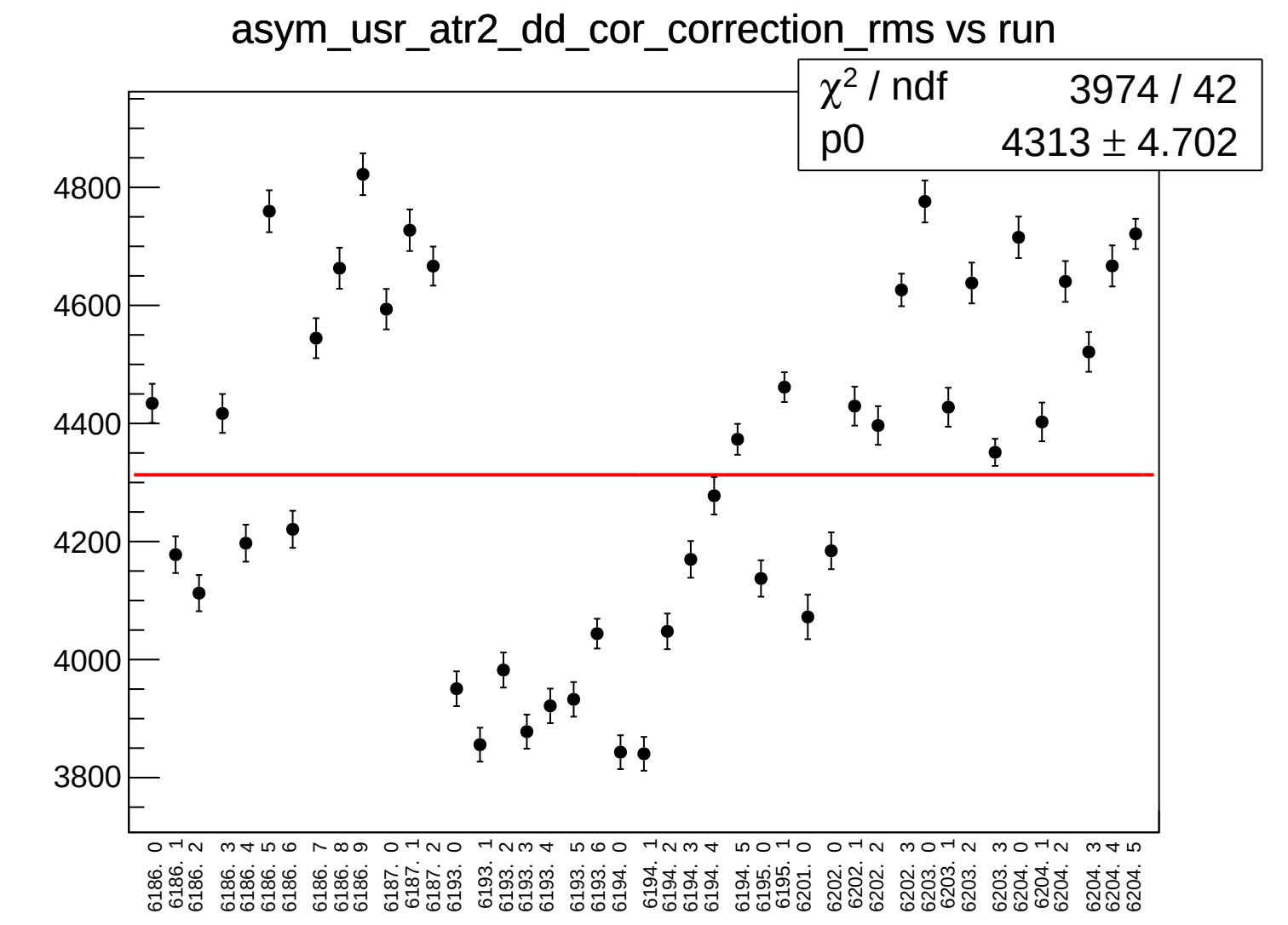
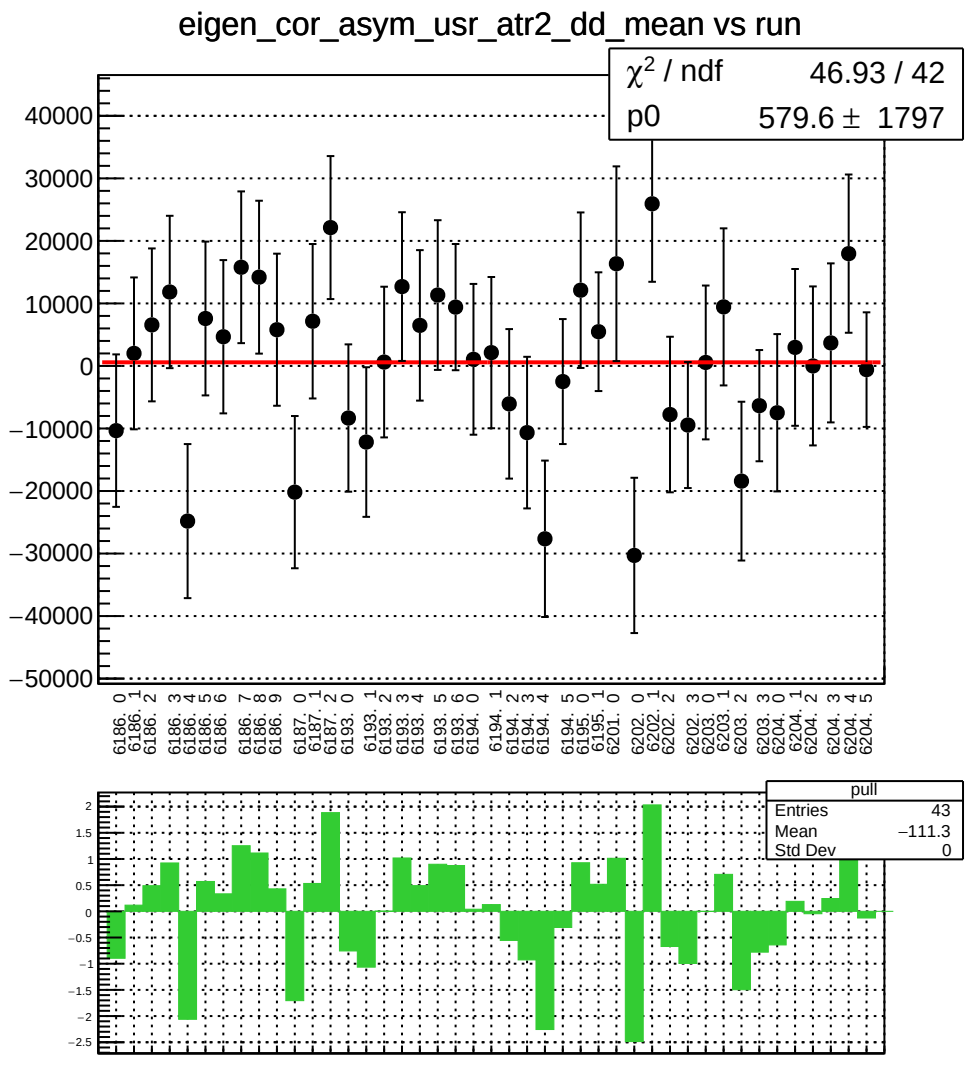
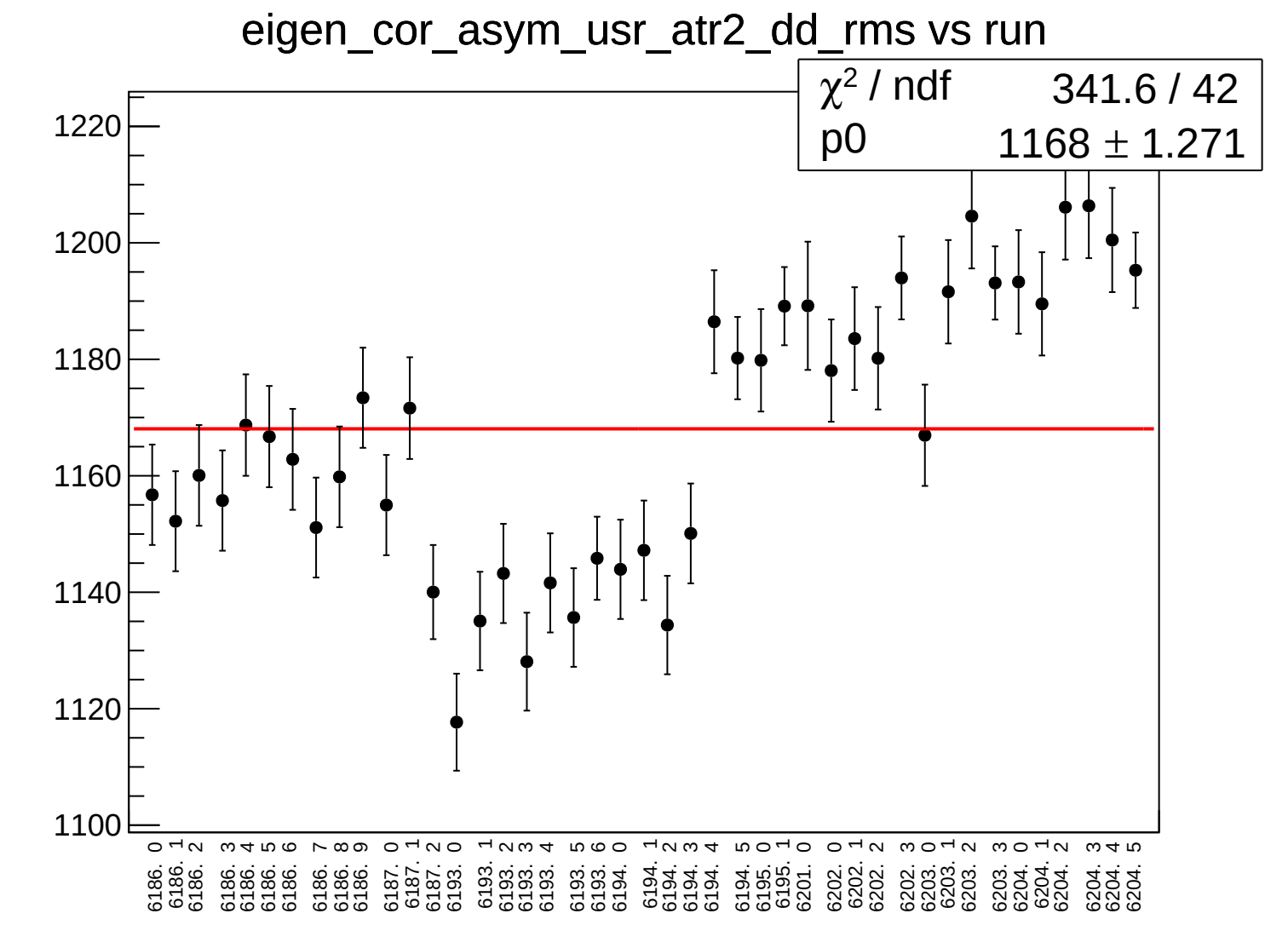
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 60.52 / 42
p0 −5913 ± 6650
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 168
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.007844
Std Dev 1.186
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 3974 / 42
p0 4313 ± 4.702
4800
4600
4400
4200
4000
3800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 46.93 / 42
p0 579.6 ± 1797
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −111.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.007706
Std Dev 1.045
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 341.6 / 42
p0 1168 ± 1.271
1220
1200
1180
1160
1140
1120
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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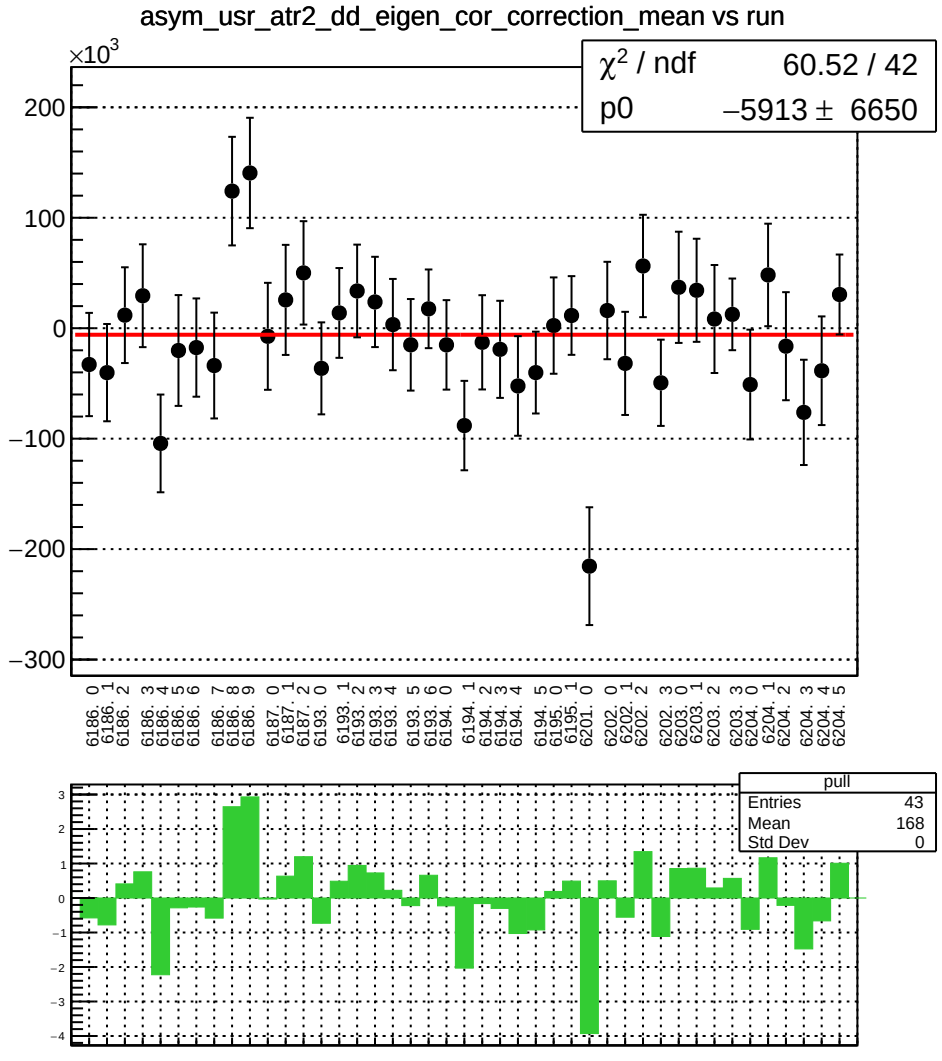
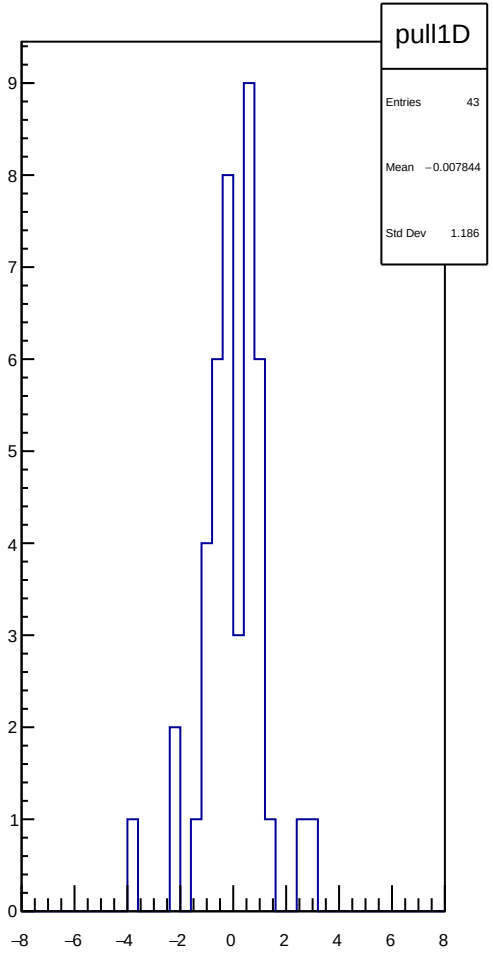
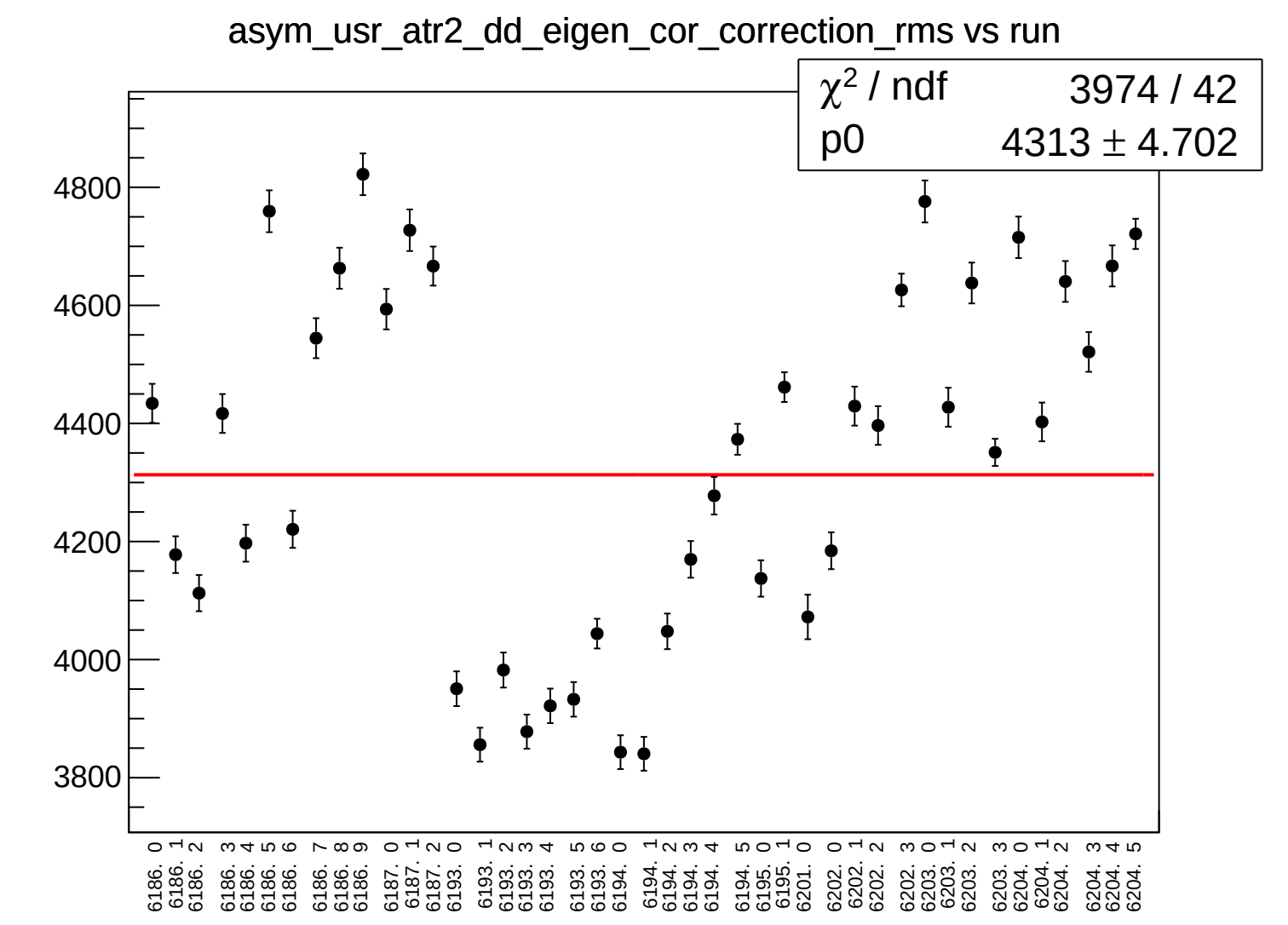
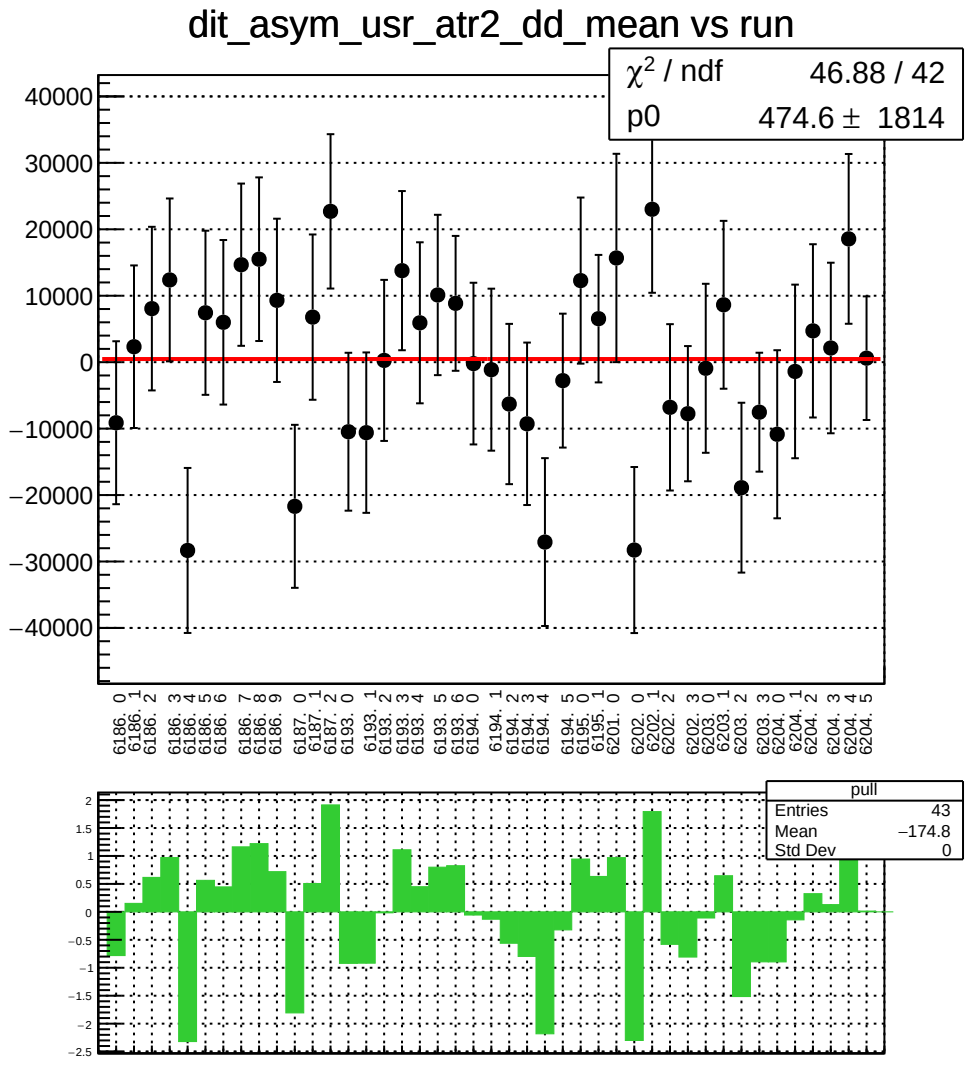
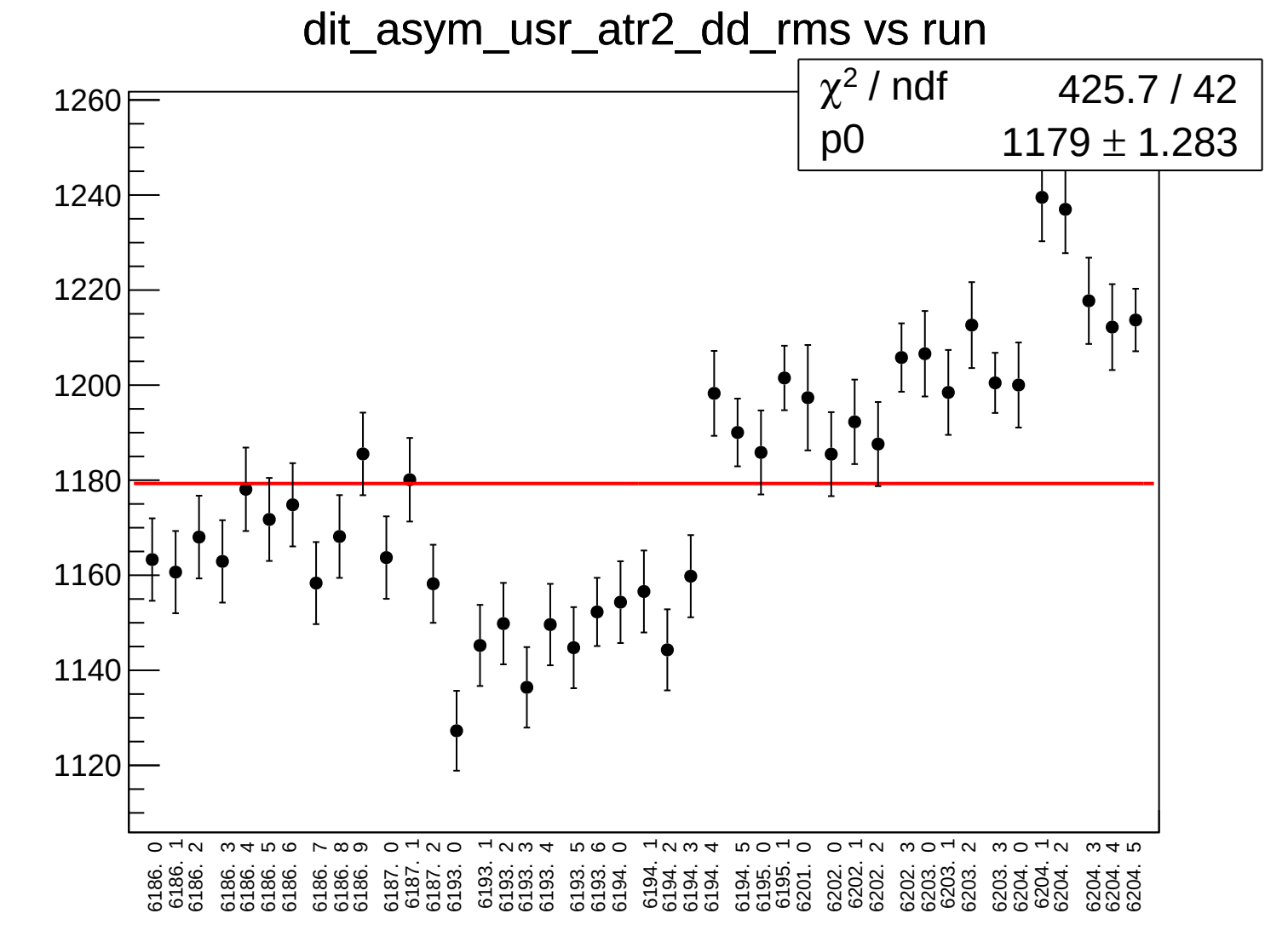
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

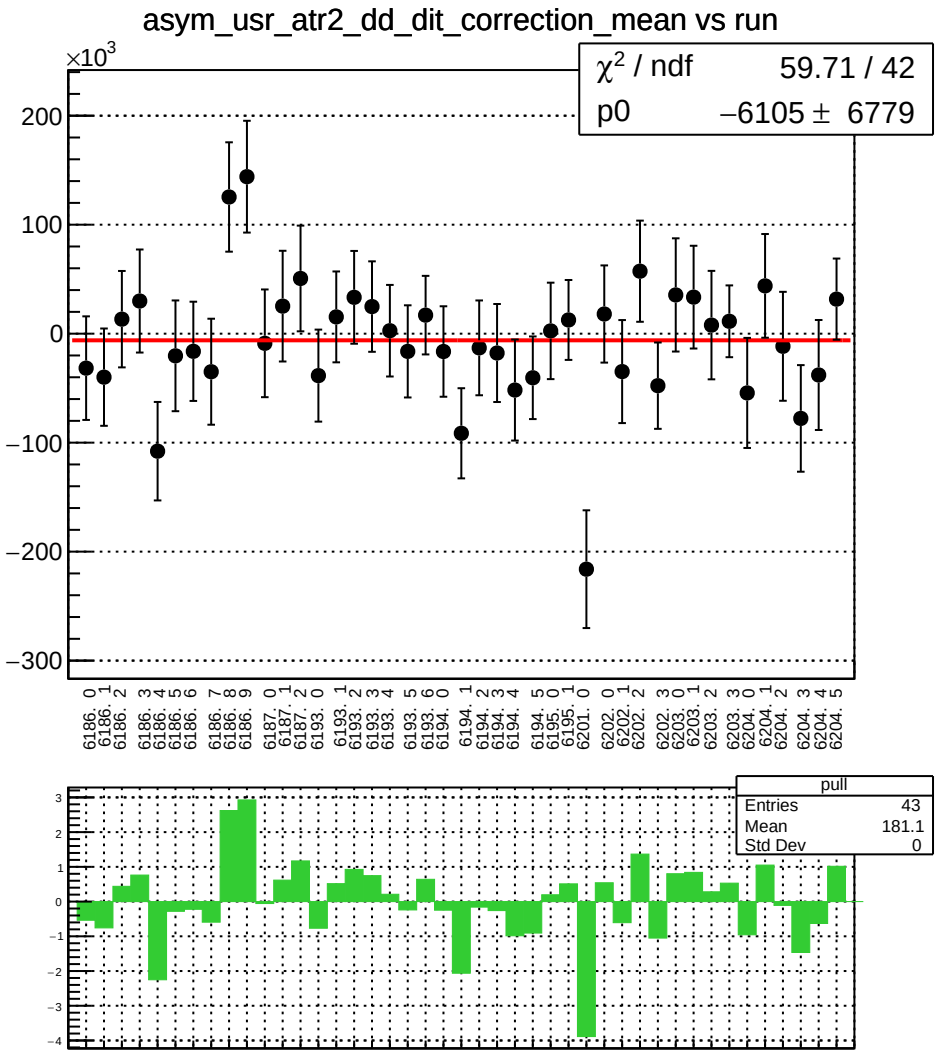

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 60.52 / 42
p0 −5913 ± 6650
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 168
Std Dev 0
3
2
1
0
−1
−2
−3
−4

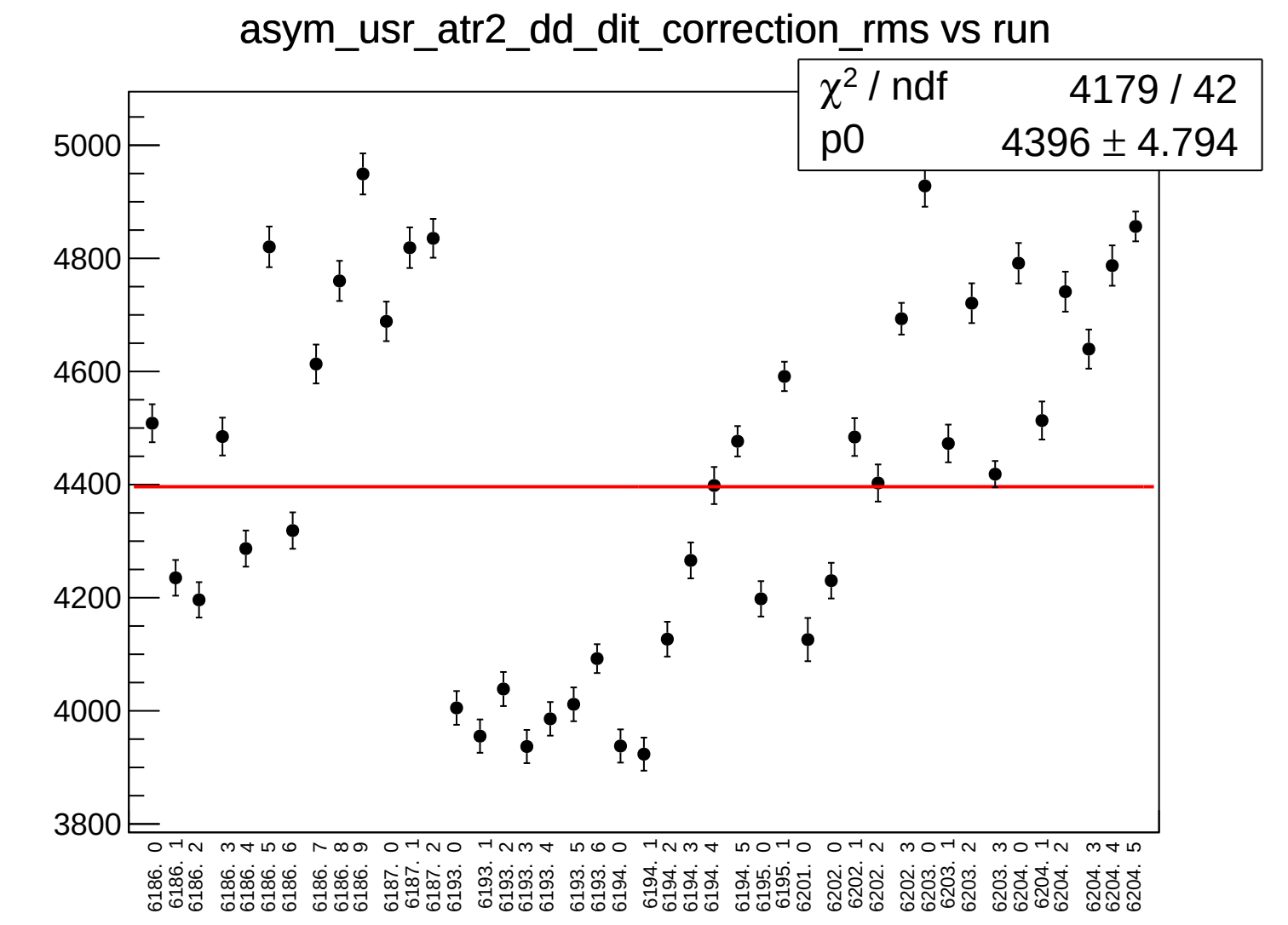

pull1D
Entries 43
Mean −0.007844
Std Dev 1.186
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

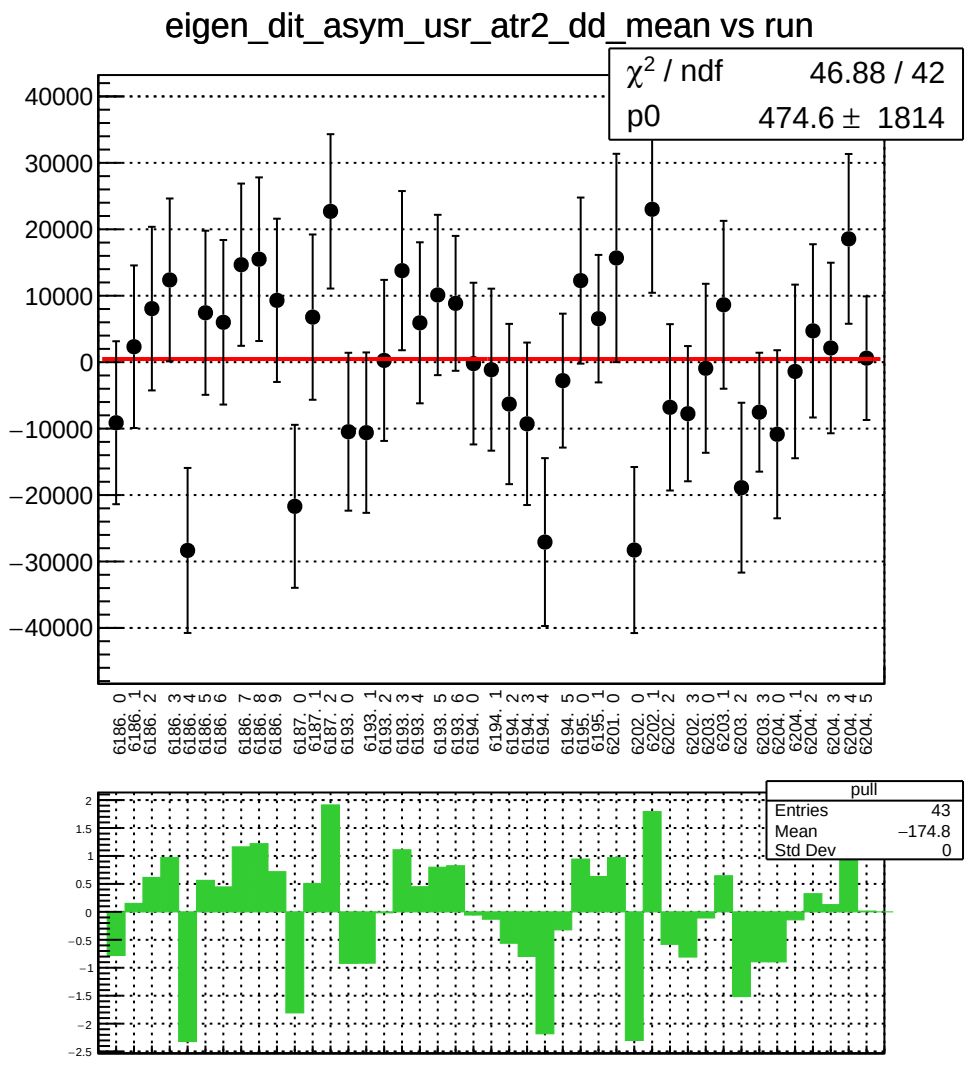

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3974 / 42
p0 4313 ± 4.702
4800
4600
4400
4200
4000
3800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

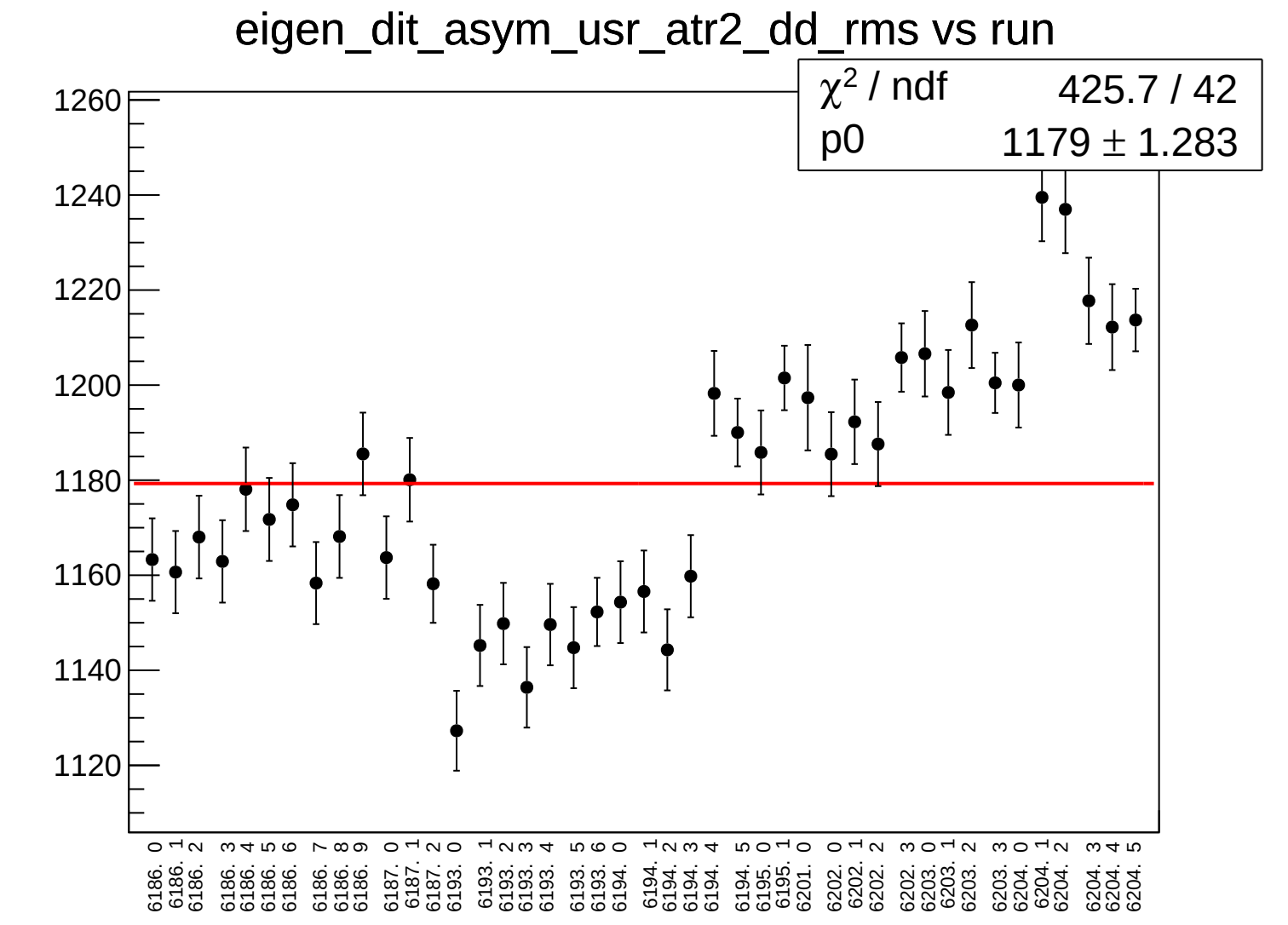

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 46.88 / 42
p0 474.6 ± 1814
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −174.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.006129
Std Dev 1.044
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

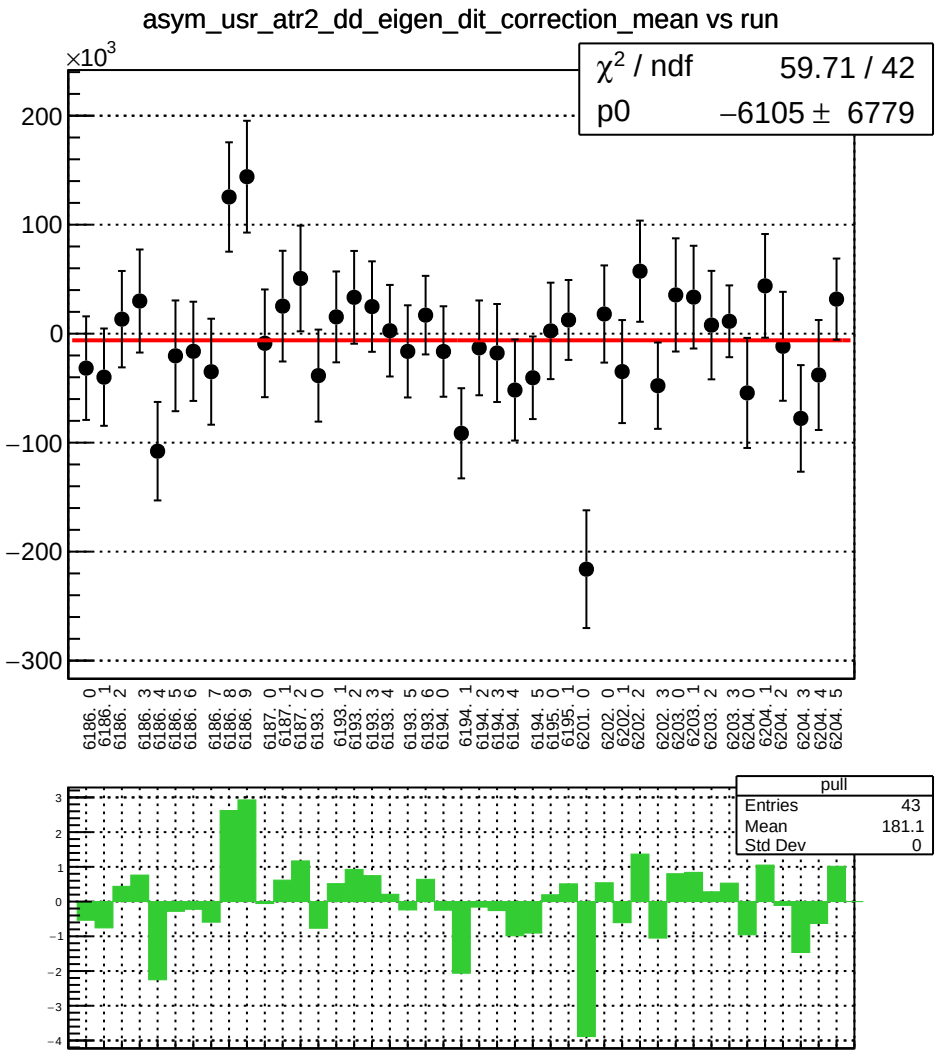

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 425.7 / 42
p0 1179 ± 1.283
1260
1240
1220
1200
1180
1160
1140
1120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

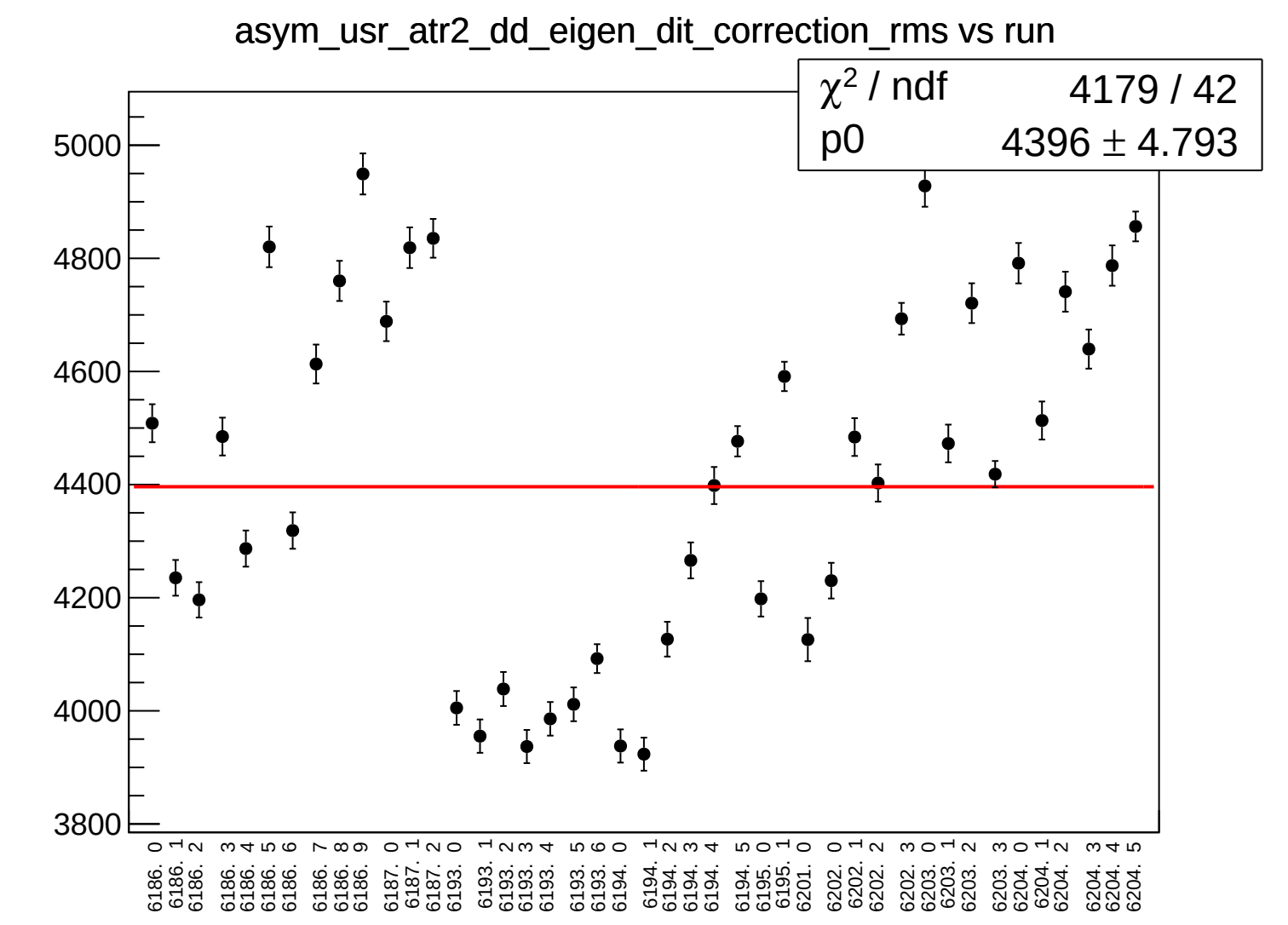

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 59.71 / 42
p0 −6105 ± 6779
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 181.1
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.007291
Std Dev 1.178
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

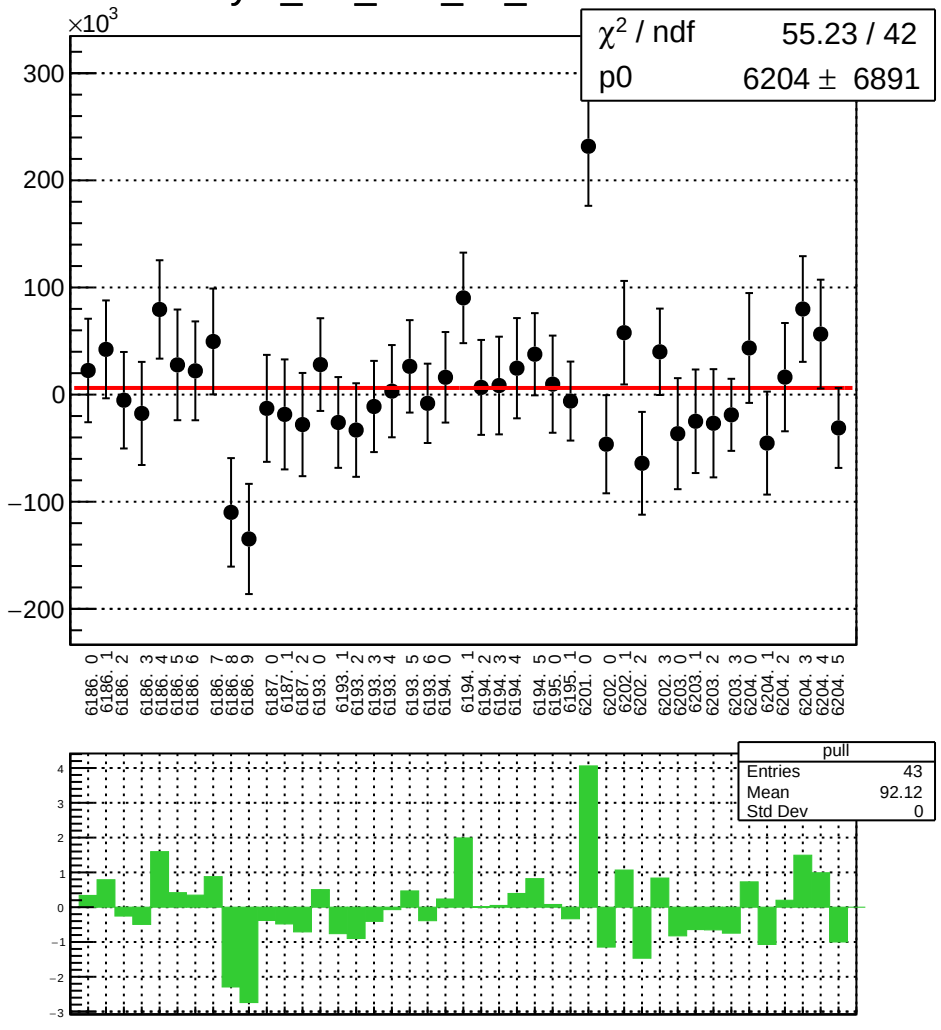

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 4179 / 42
p0 4396 ± 4.794
5000
4800
4600
4400
4200
4000
3800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

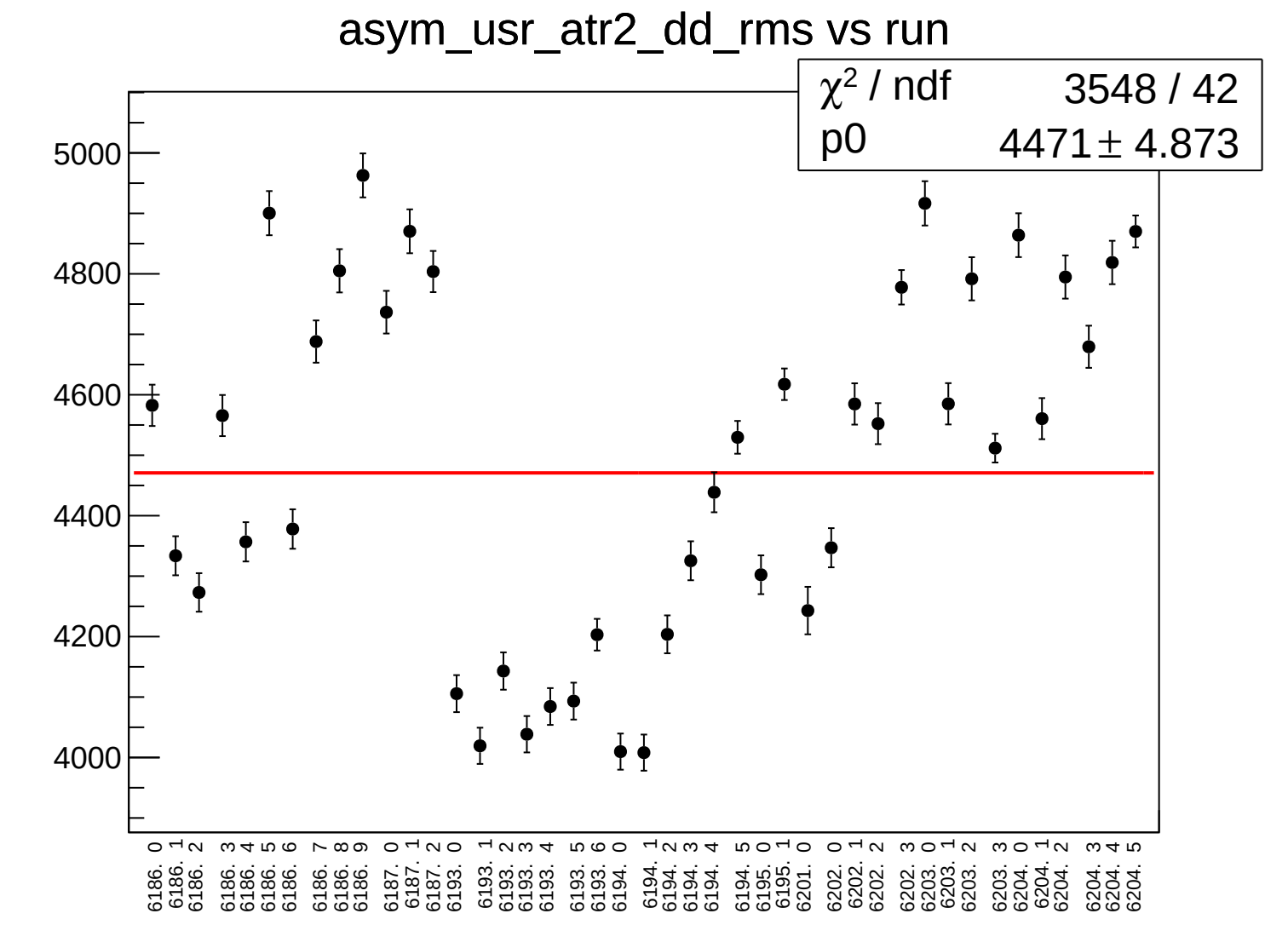

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 46.88 / 42
p0 474.6 ± 1814
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −174.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.006129
Std Dev 1.044
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

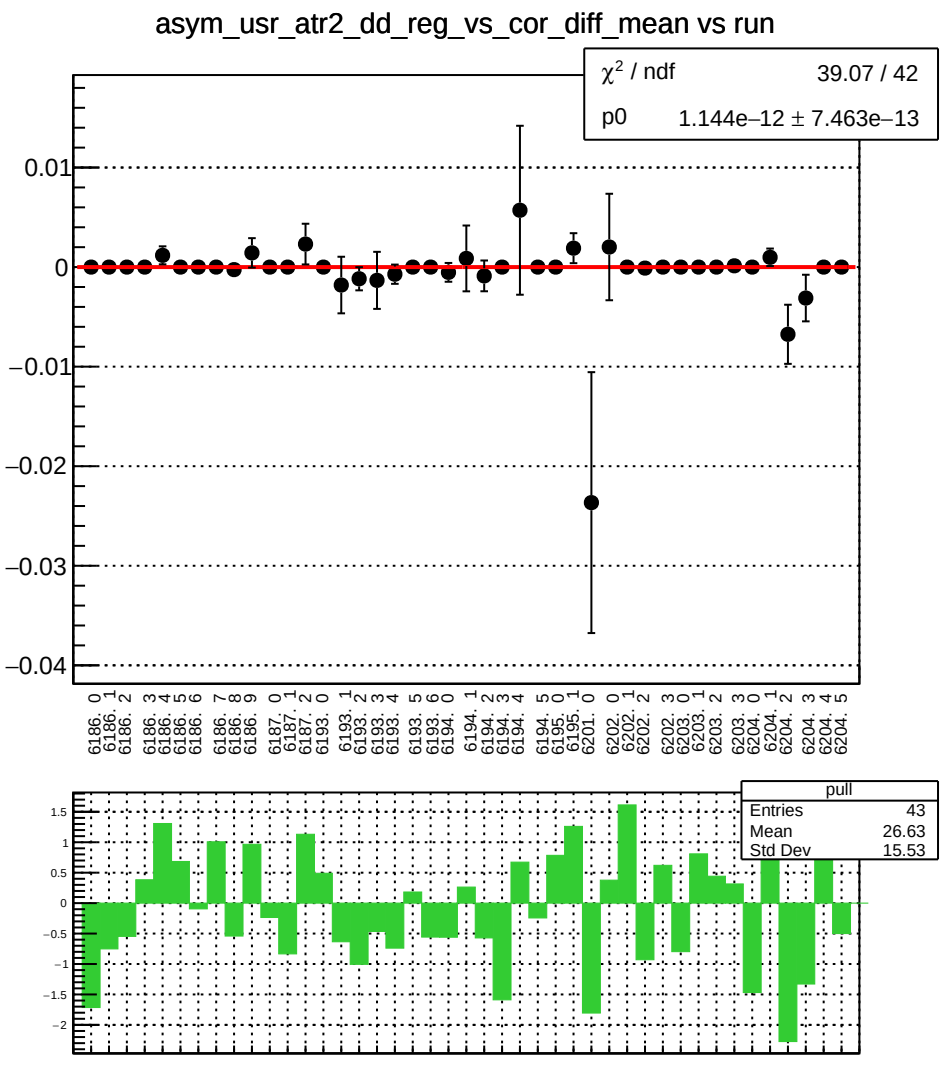

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 425.7 / 42
p0 1179 ± 1.283
1260
1240
1220
1200
1180
1160
1140
1120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

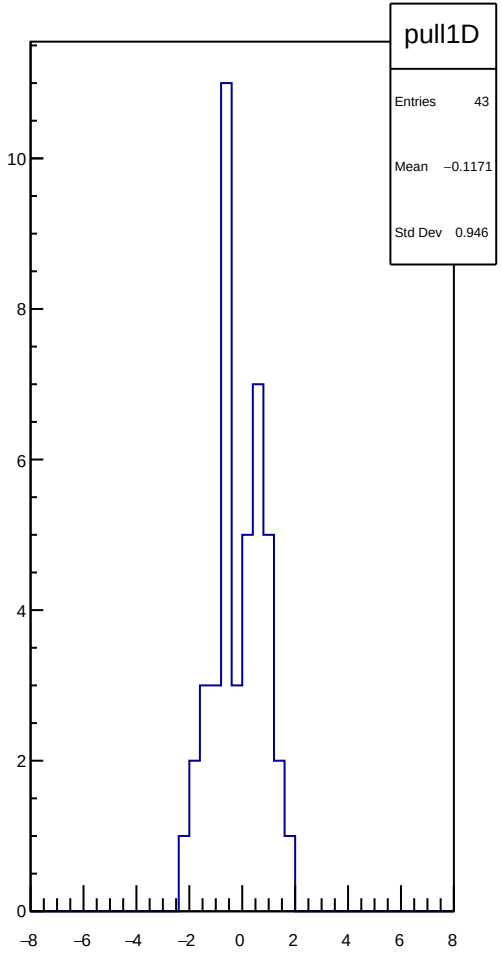

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 59.71 / 42
p0 −6105 ± 6779
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 181.1
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.007291
Std Dev 1.178
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

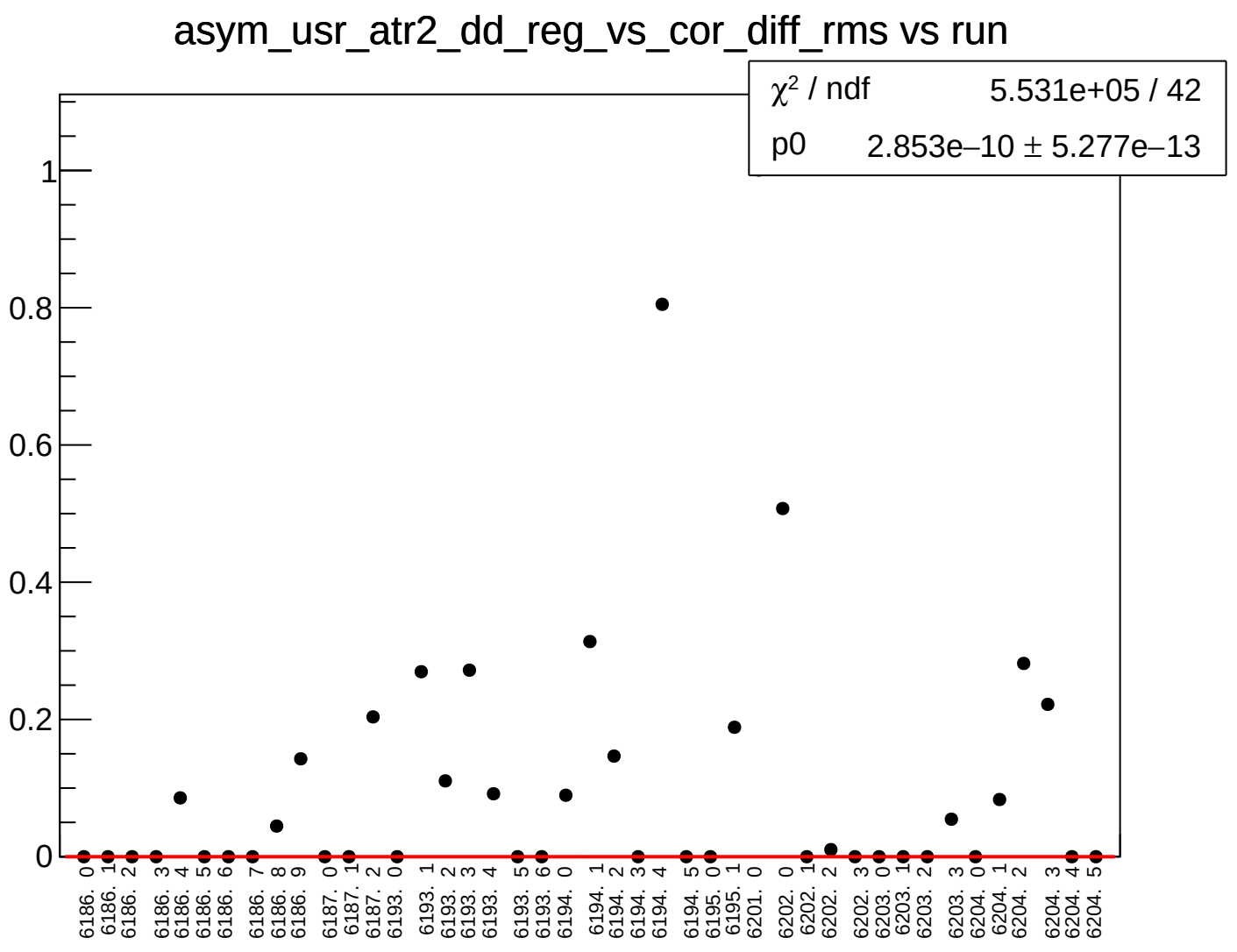

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4179 / 42
p0 4396 ± 4.793
5000
4800
4600
4400
4200
4000
3800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

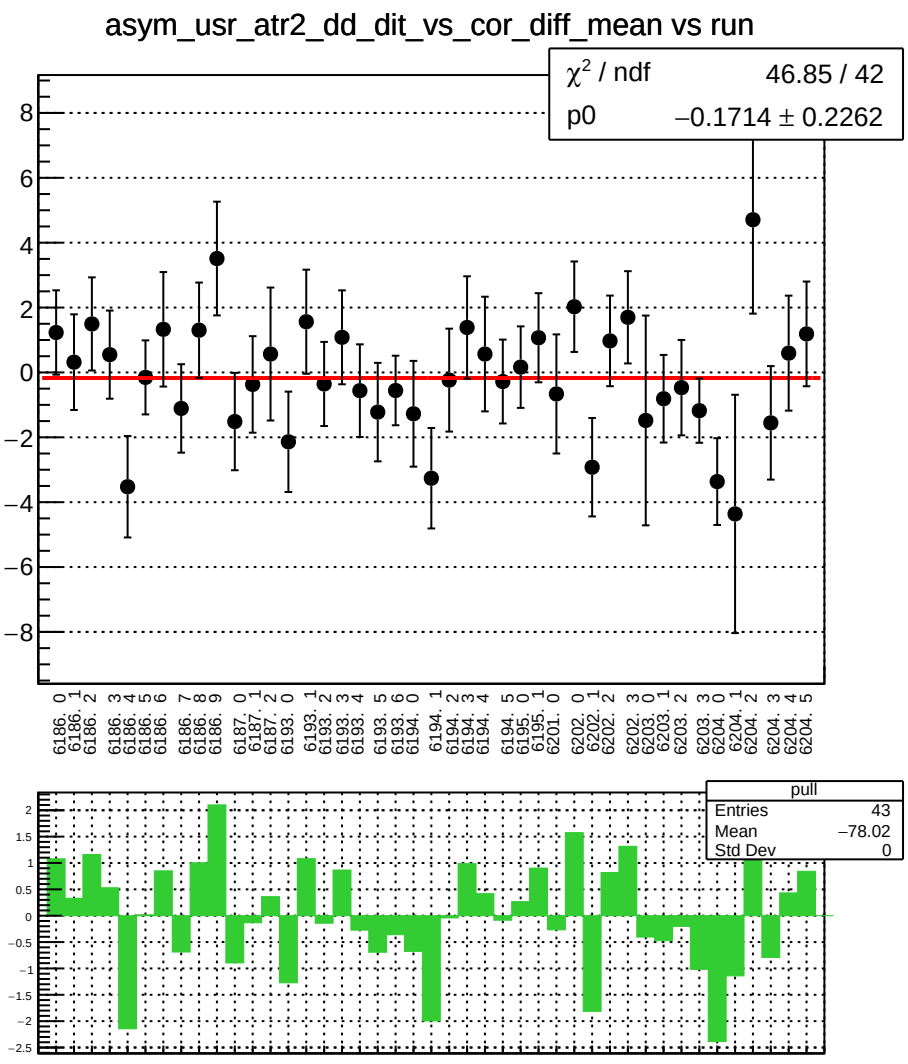

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 55.23 / 42
p0 6204 ± 6891
300
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 92.12
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01246
Std Dev 1.133
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

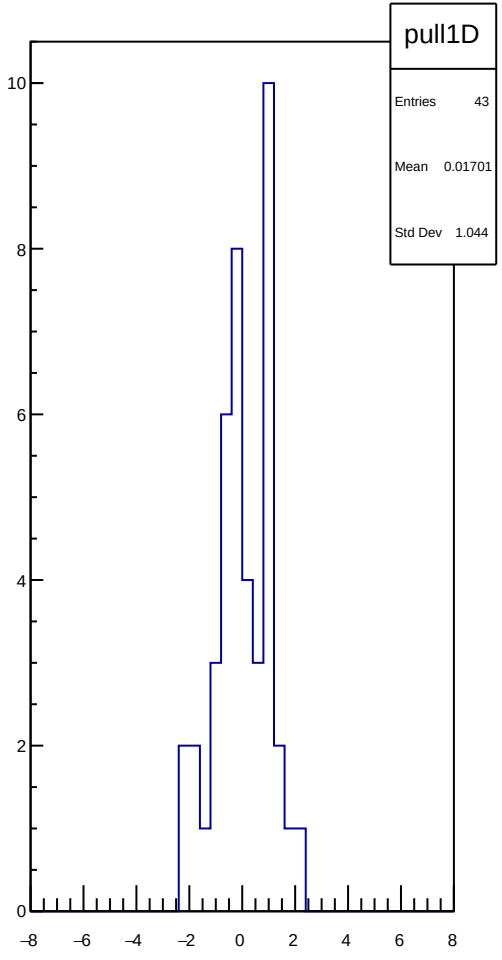

asym_usr_atr2_dd_rms vs run
χ² / ndf 3548 / 42
p0 4471 ± 4.873
5000
4800
4600
4400
4200
4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

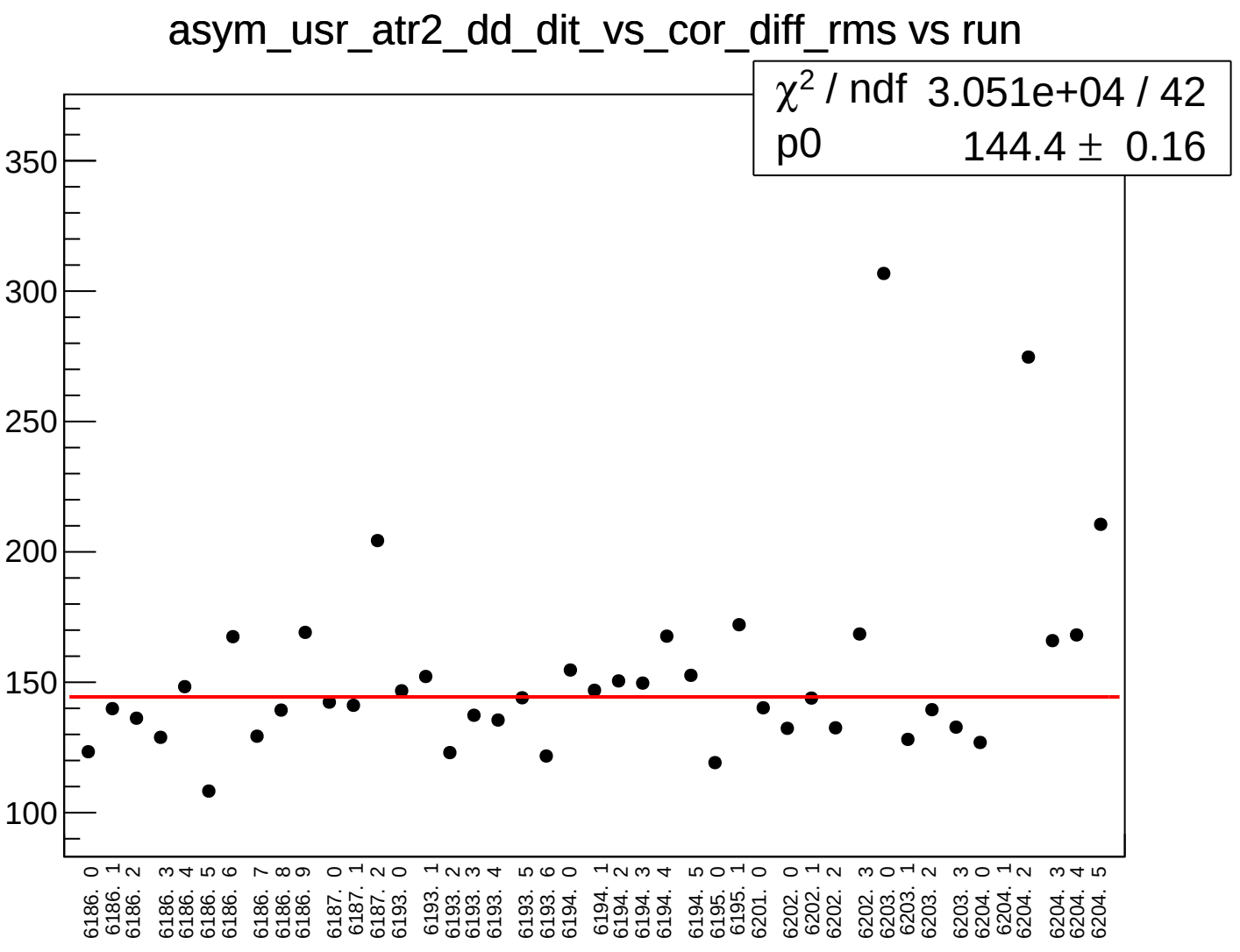

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 39.07 / 42
p0 1.144e−12 ± 7.463e−13
0.01
0
−0.01
−0.02
−0.03
−0.04
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 26.63
Std Dev 15.53
1.5
1
0.5
0
−0.5
−1
−1.5
−2

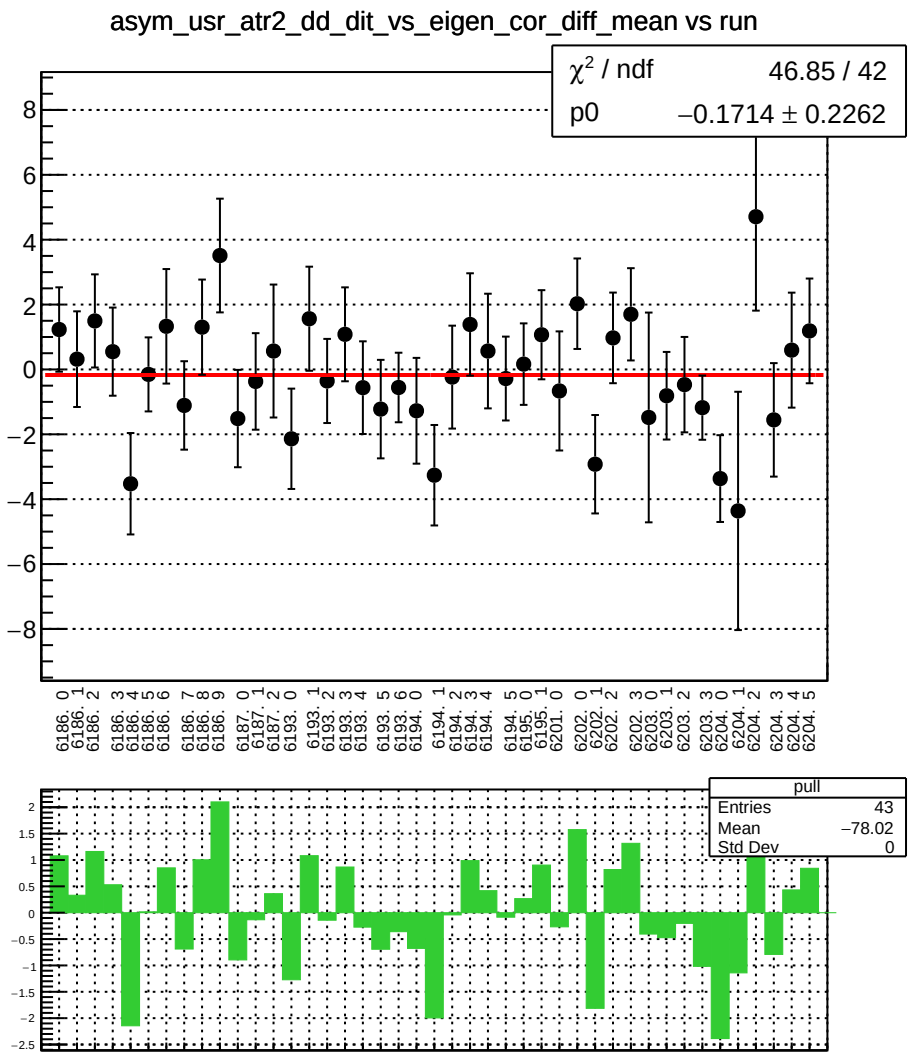

pull1D
Entries 43
Mean −0.1171
Std Dev 0.946
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

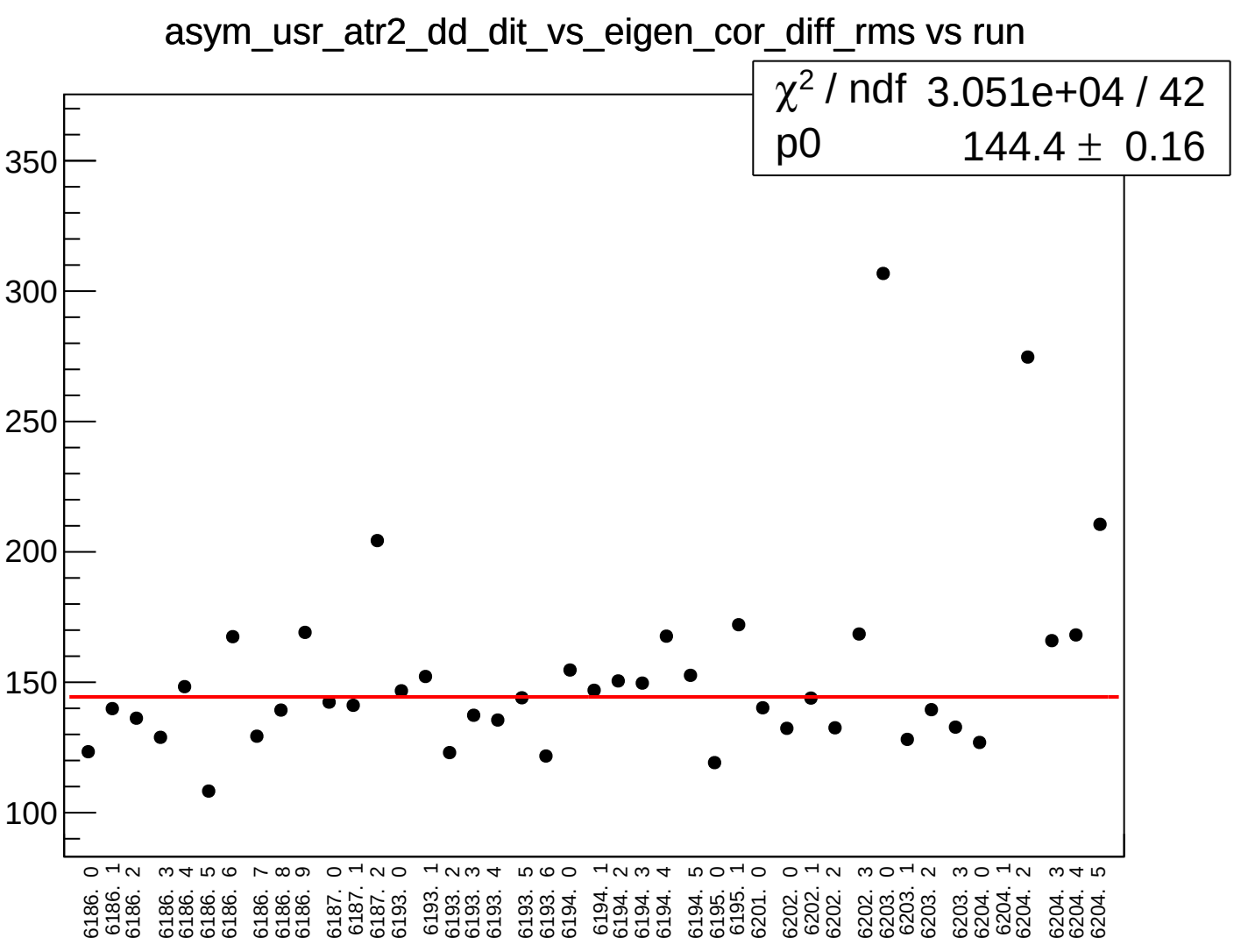

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.531e+05 / 42
p0 2.853e−10 ± 5.277e−13
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

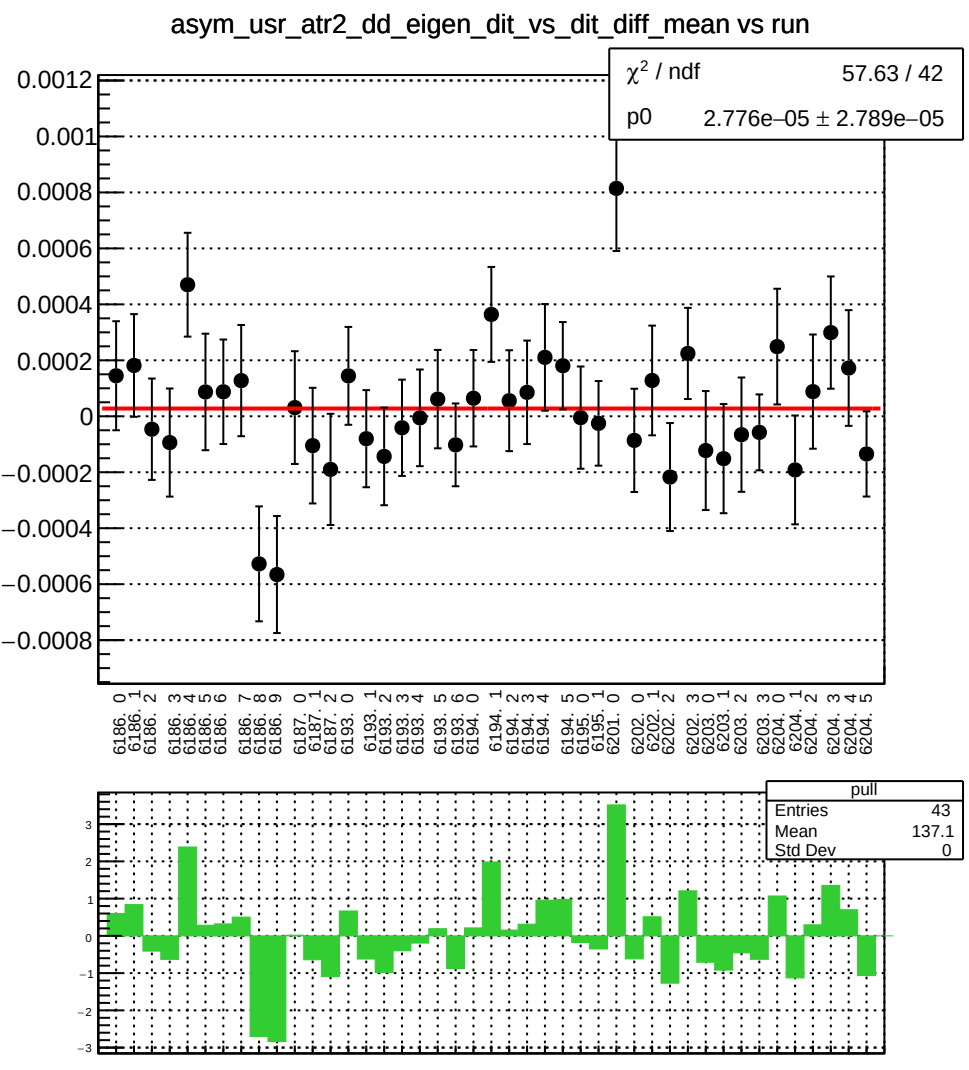

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 46.85 / 42
p0 −0.1714 ± 0.2262
pull
Entries 43
Mean −78.02
Std Dev 0

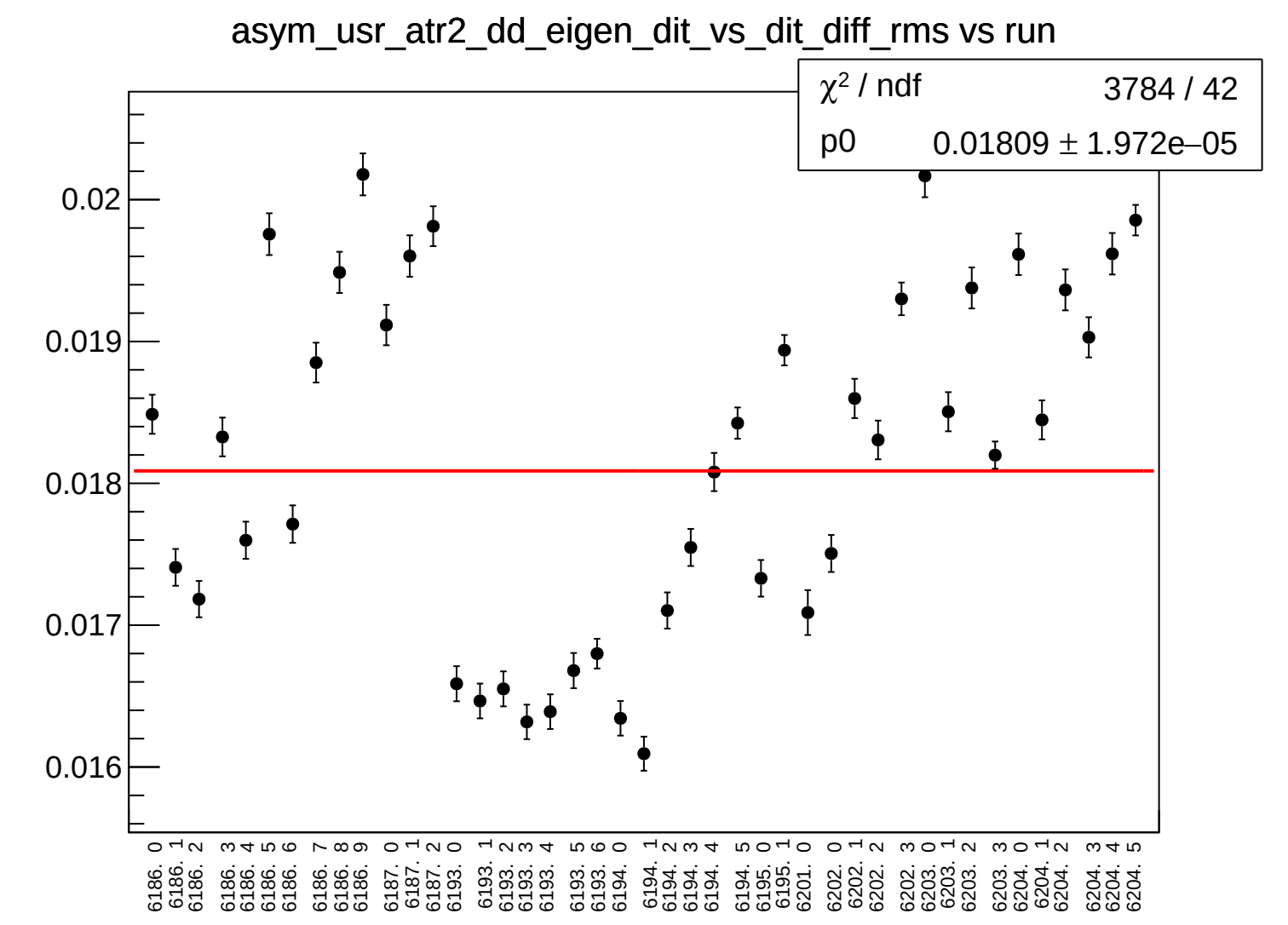

pull1D
Entries 43
Mean 0.01701
Std Dev 1.044

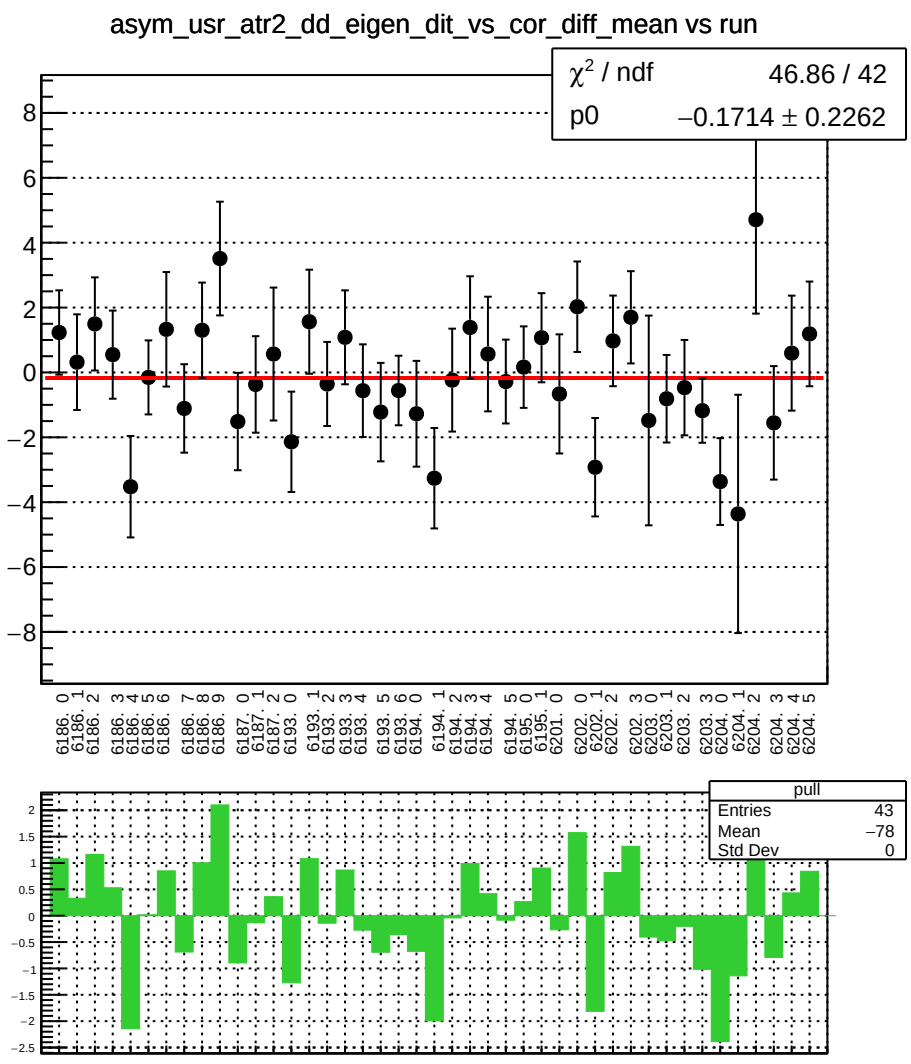

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.051e+04 / 42
p0 144.4 ± 0.16
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

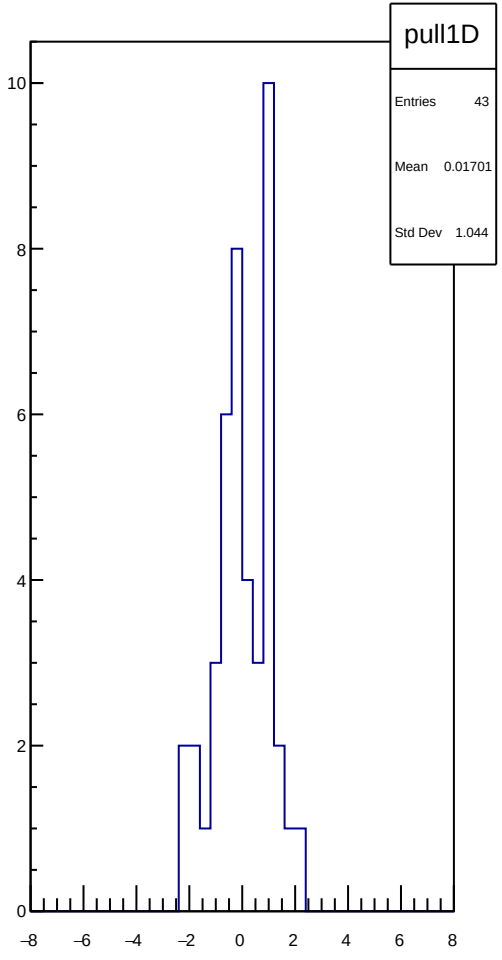

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.85 / 42
p0 −0.1714 ± 0.2262
pull
Entries 43
Mean −78.02
Std Dev 0
pull1D
Entries 43
Mean 0.01701
Std Dev 1.044

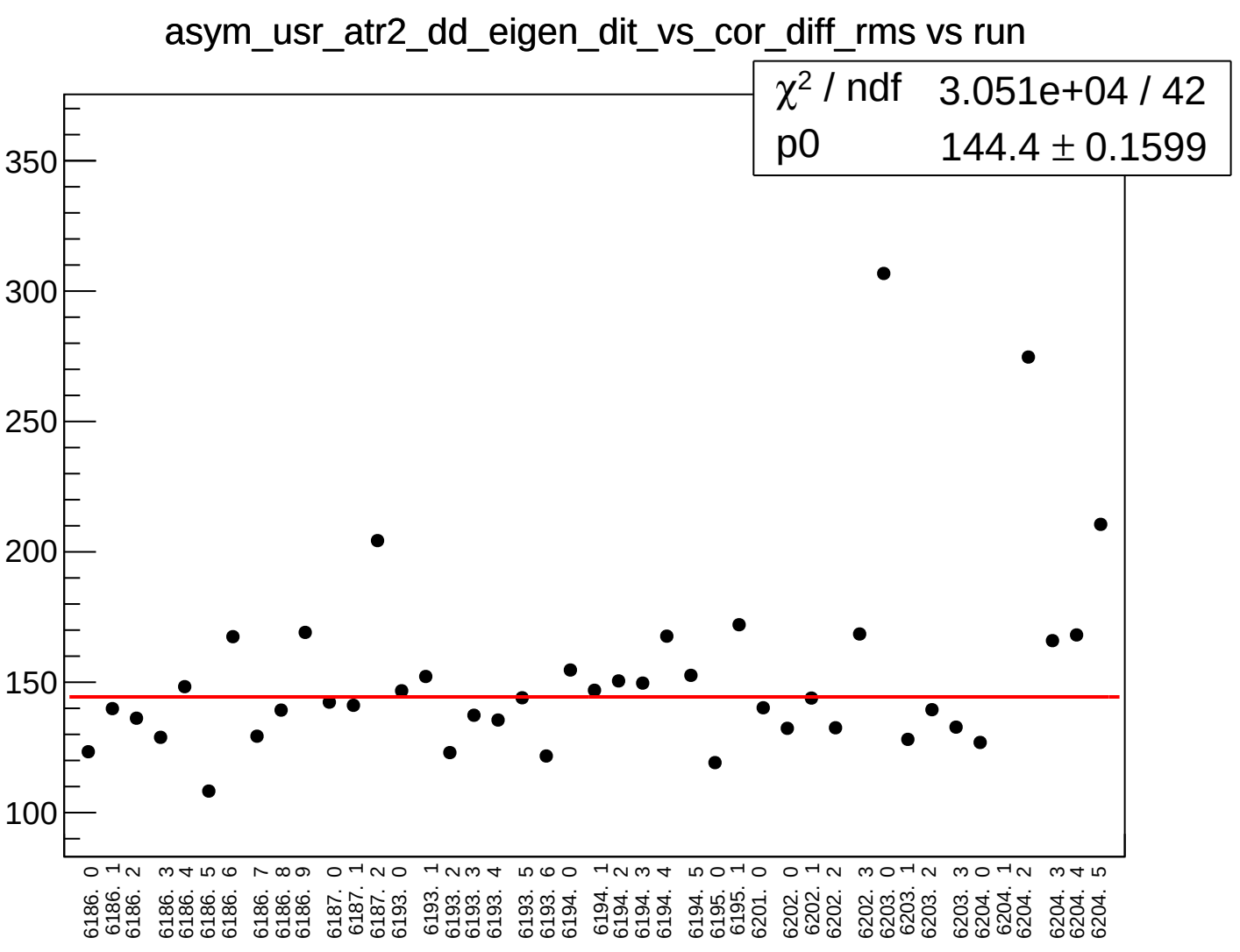

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.051e+04 / 42
p0 144.4 ± 0.16
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

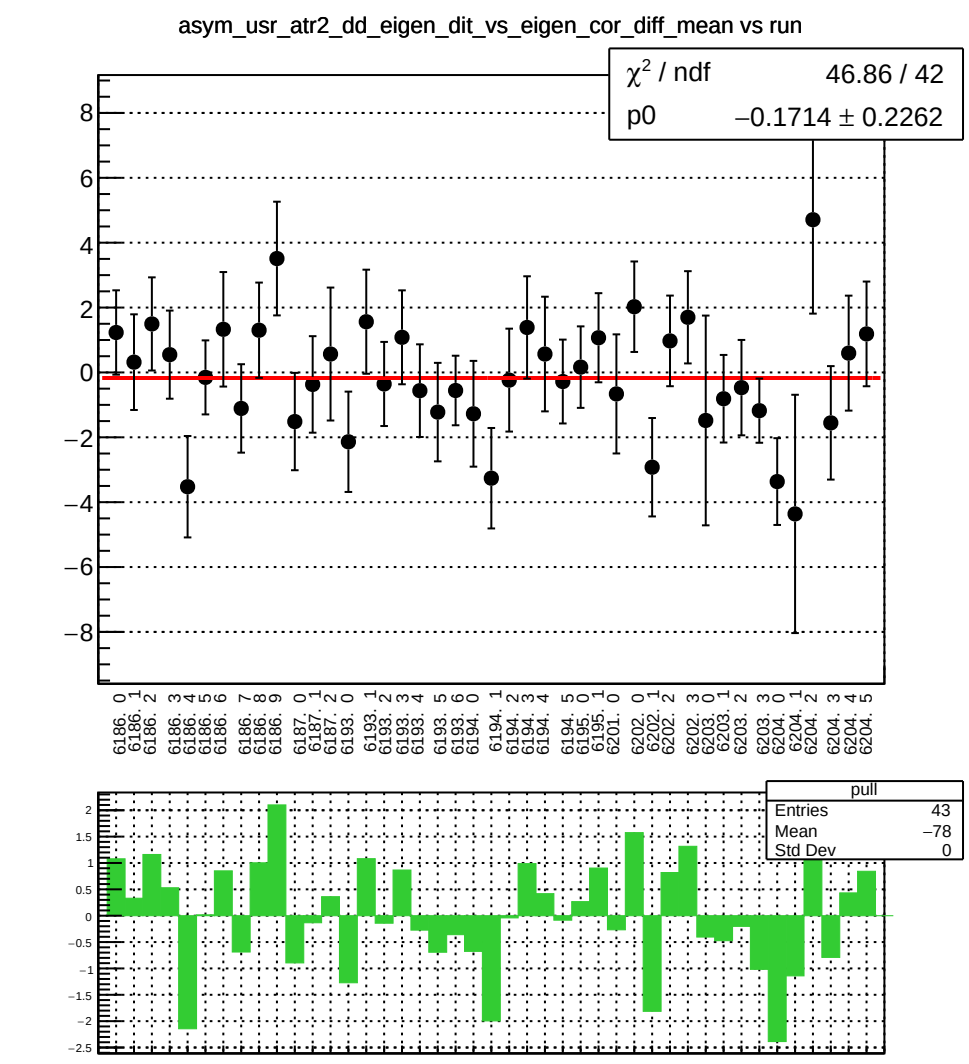

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 57.63 / 42
p0 2.776e−05 ± 2.789e−05
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 137.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.00814
Std Dev 1.158
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

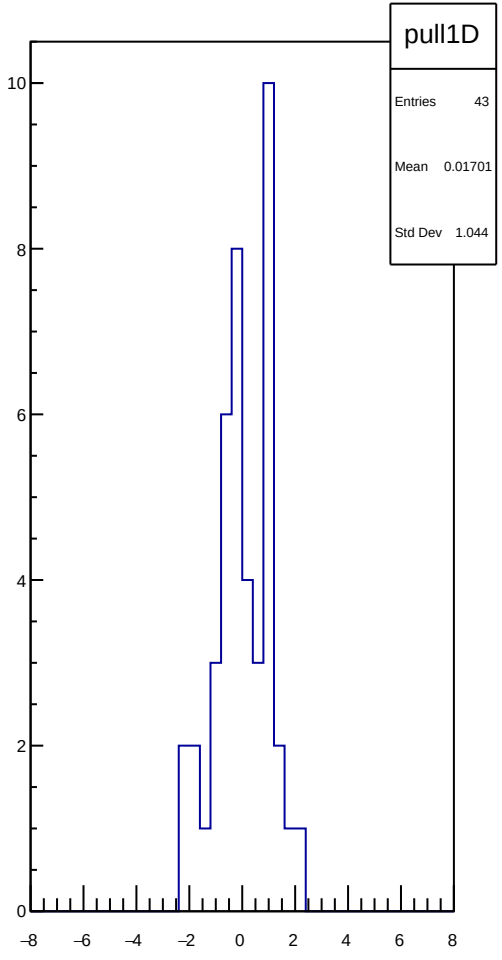

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3784 / 42
p0 0.01809 ± 1.972e–05
0.02
0.019
0.018
0.017
0.016
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

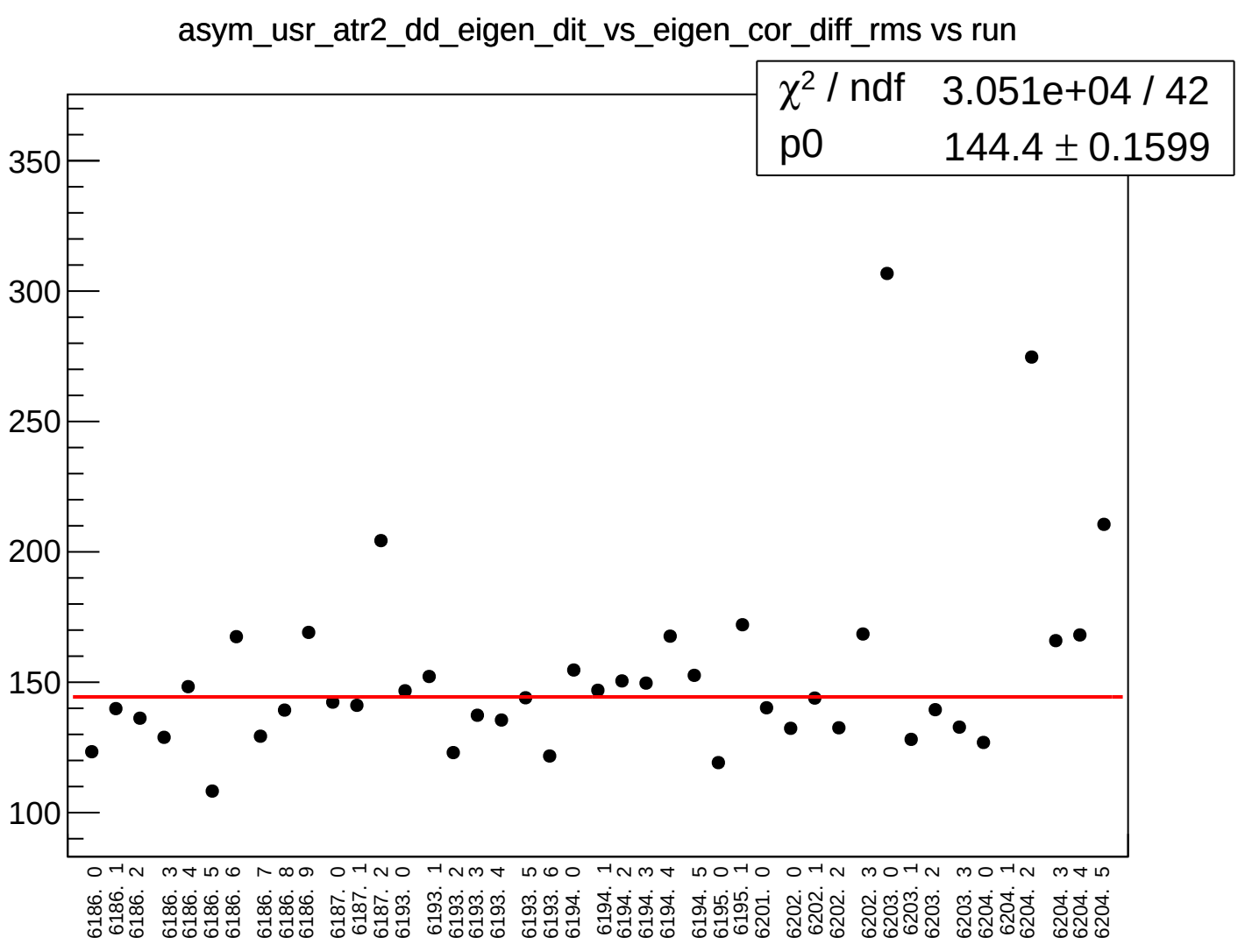

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.86 / 42
p0 −0.1714 ± 0.2262
pull
Entries 43
Mean −78
Std Dev 0

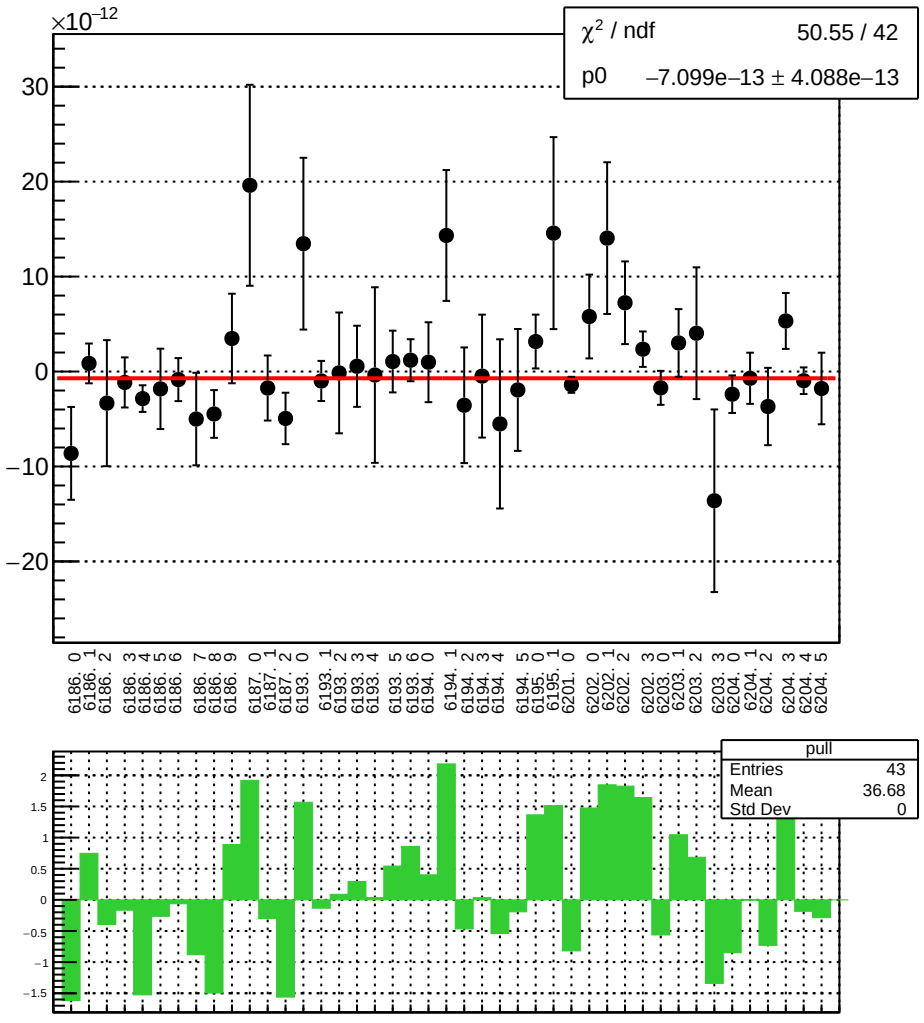

pull1D
Entries 43
Mean 0.01701
Std Dev 1.044

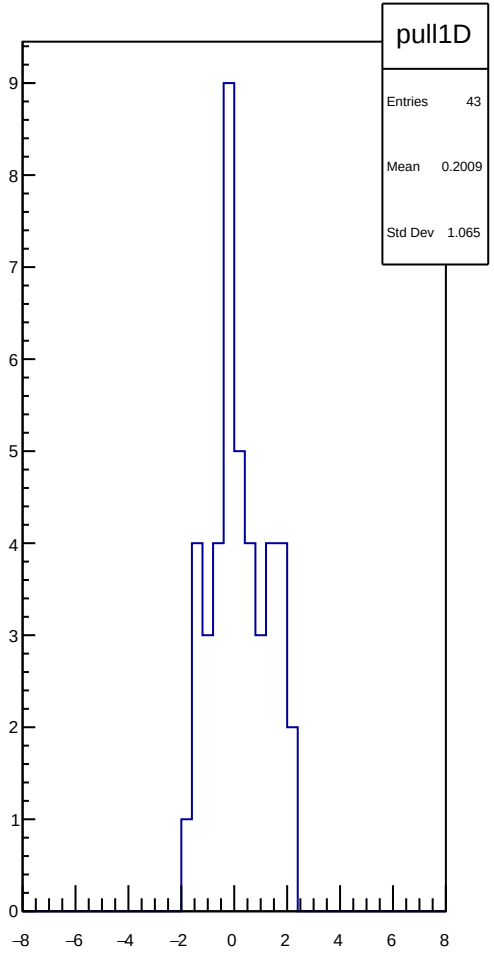

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.051e+04 / 42
p0 144.4 ± 0.1599
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

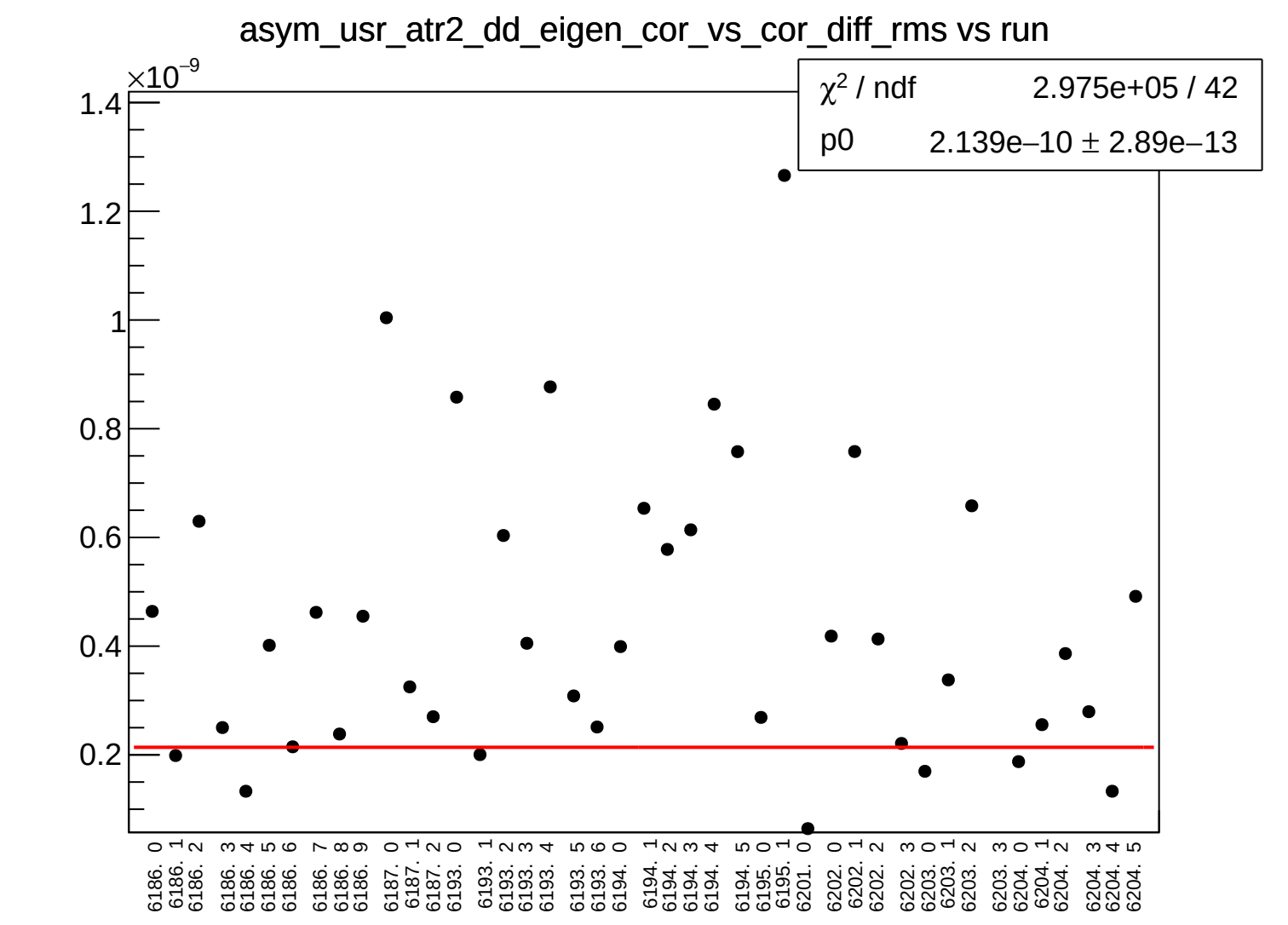

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.86 / 42
p0 −0.1714 ± 0.2262
pull
Entries 43
Mean −78
Std Dev 0

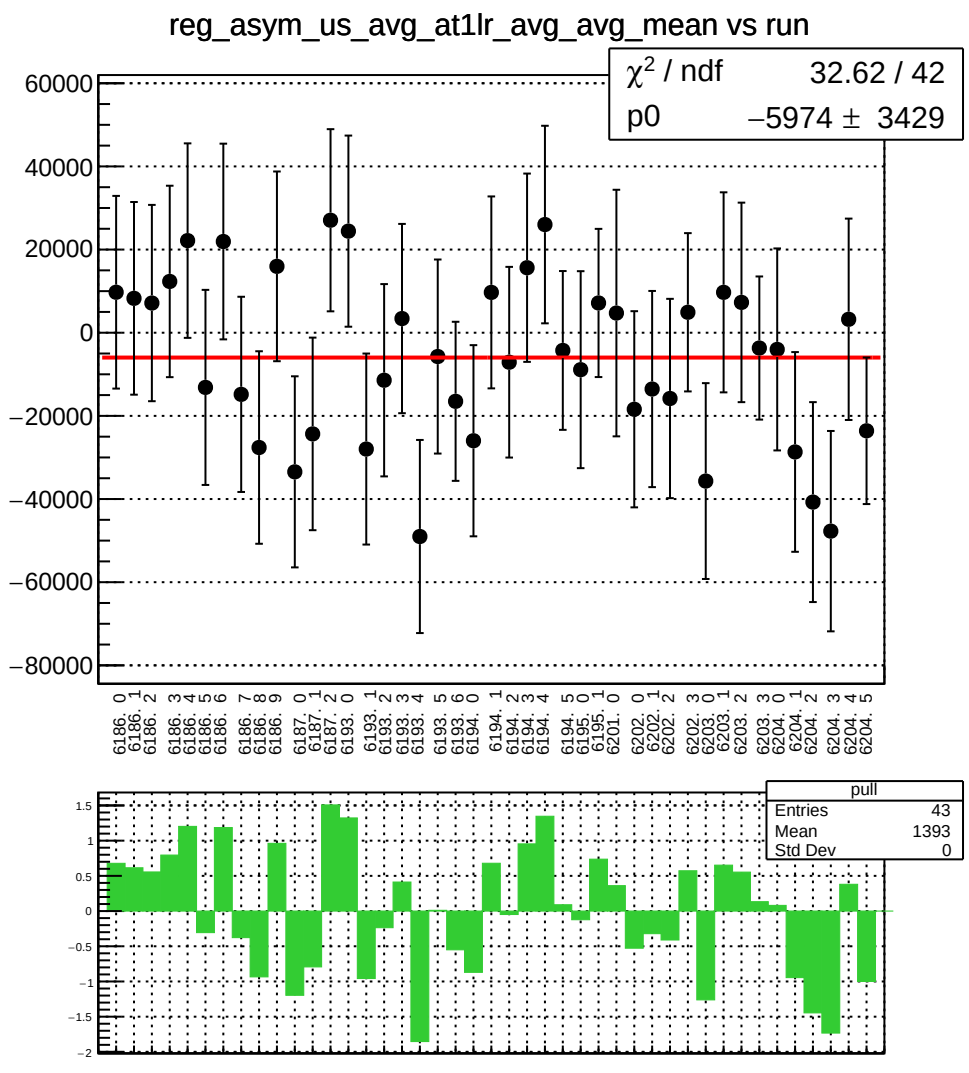

pull1D
Entries 43
Mean 0.01701
Std Dev 1.044

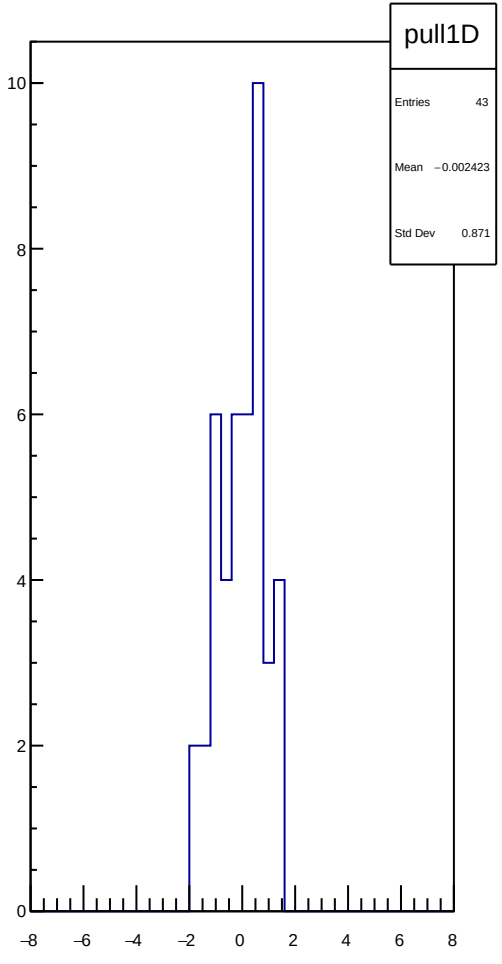

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.051e+04 / 42
p0 144.4 ± 0.1599
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

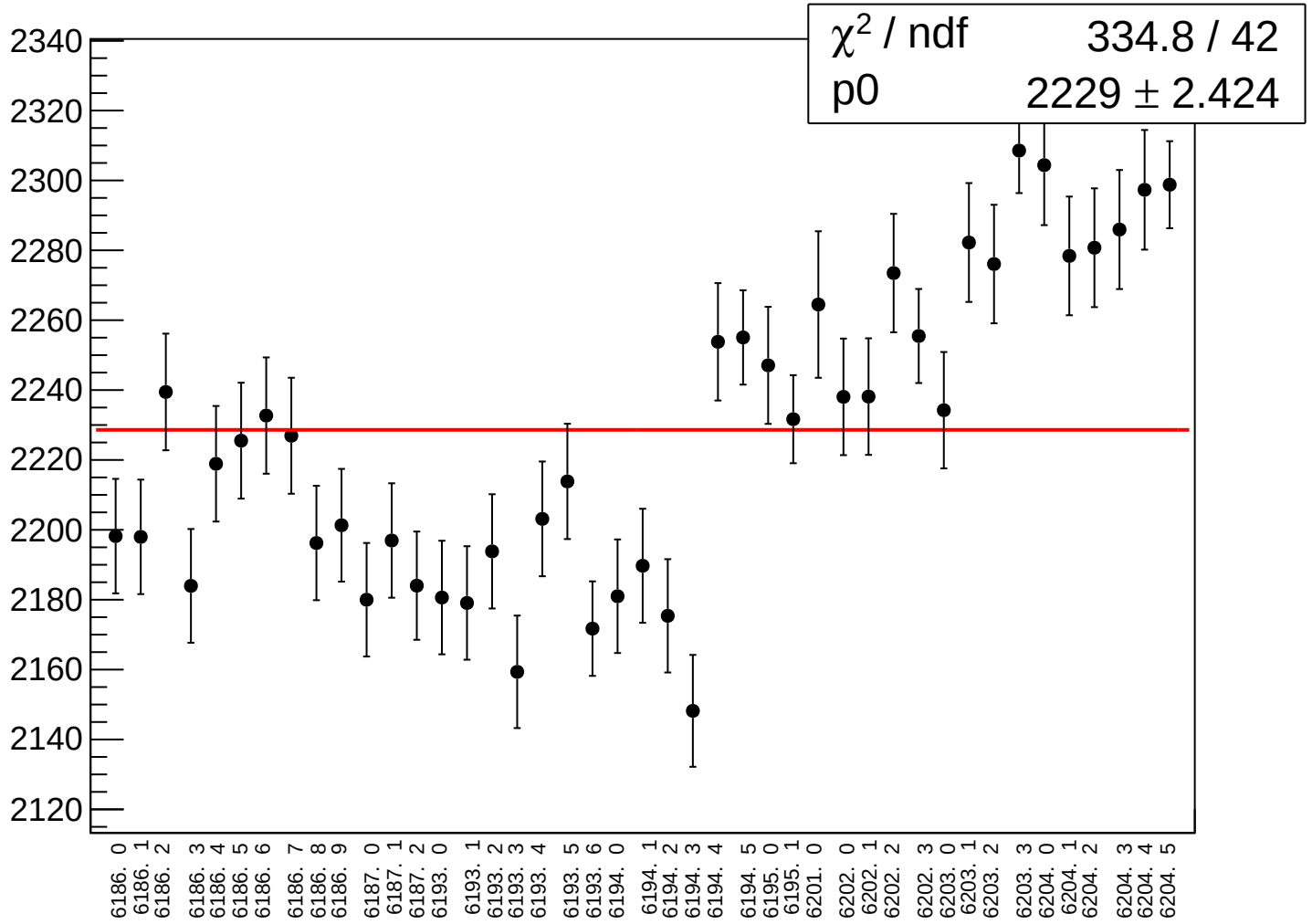

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 50.55 / 42
p0 −7.099e−13 ± 4.088e−13
30
20
10
0
−10
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 36.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

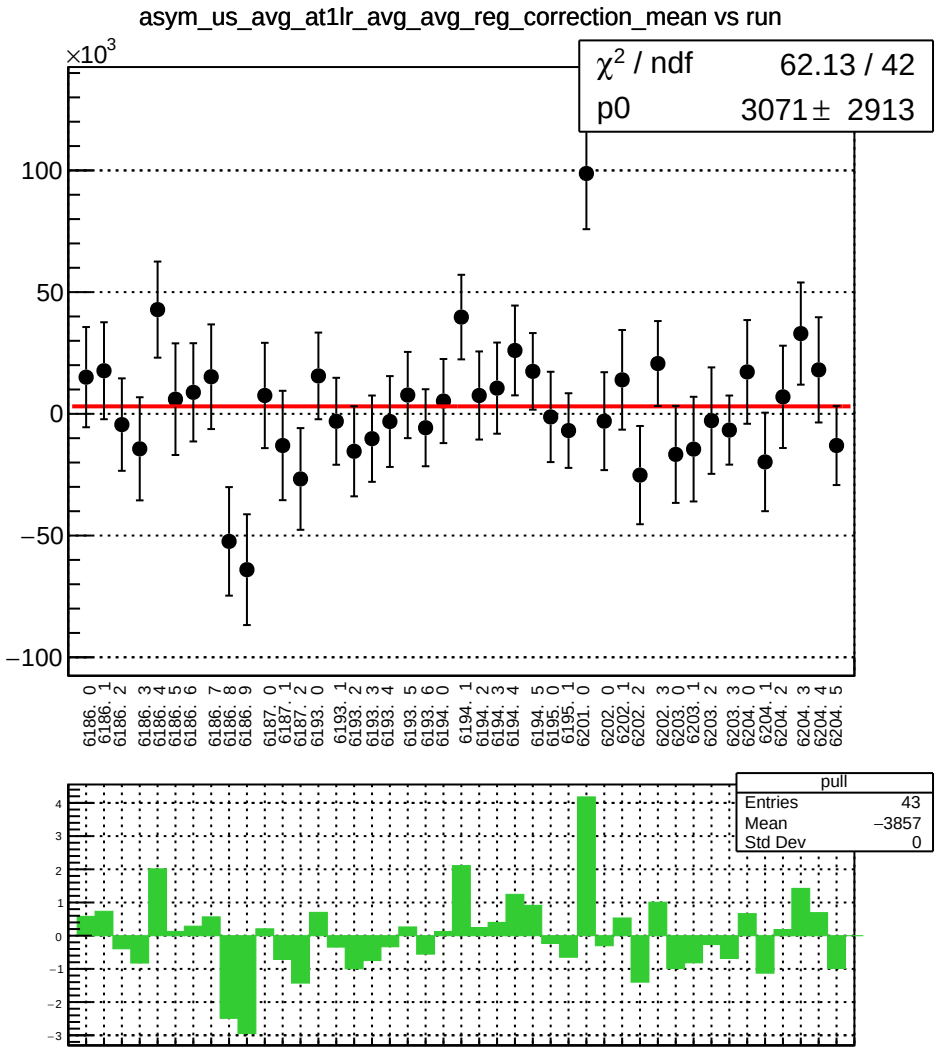

pull1D
Entries 43
Mean 0.2009
Std Dev 1.065
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

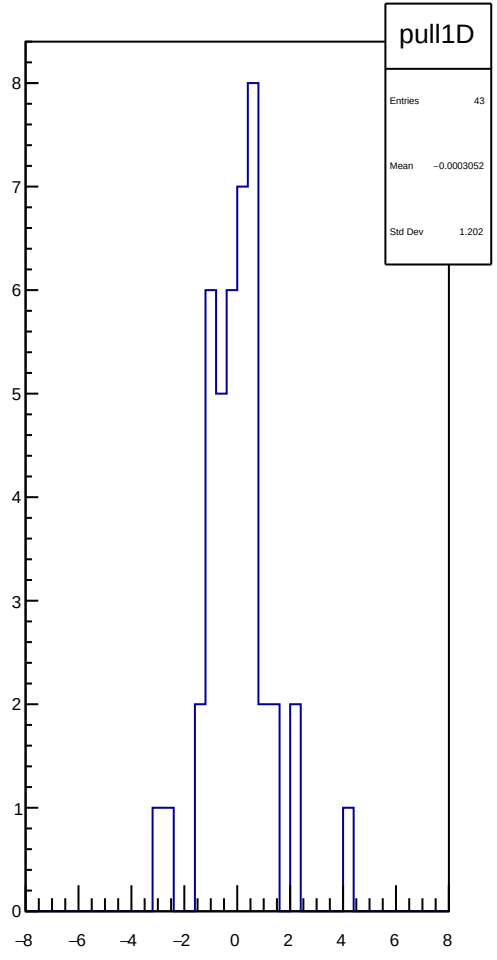

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.975e+05 / 42
p0 2.139e−10 ± 2.89e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

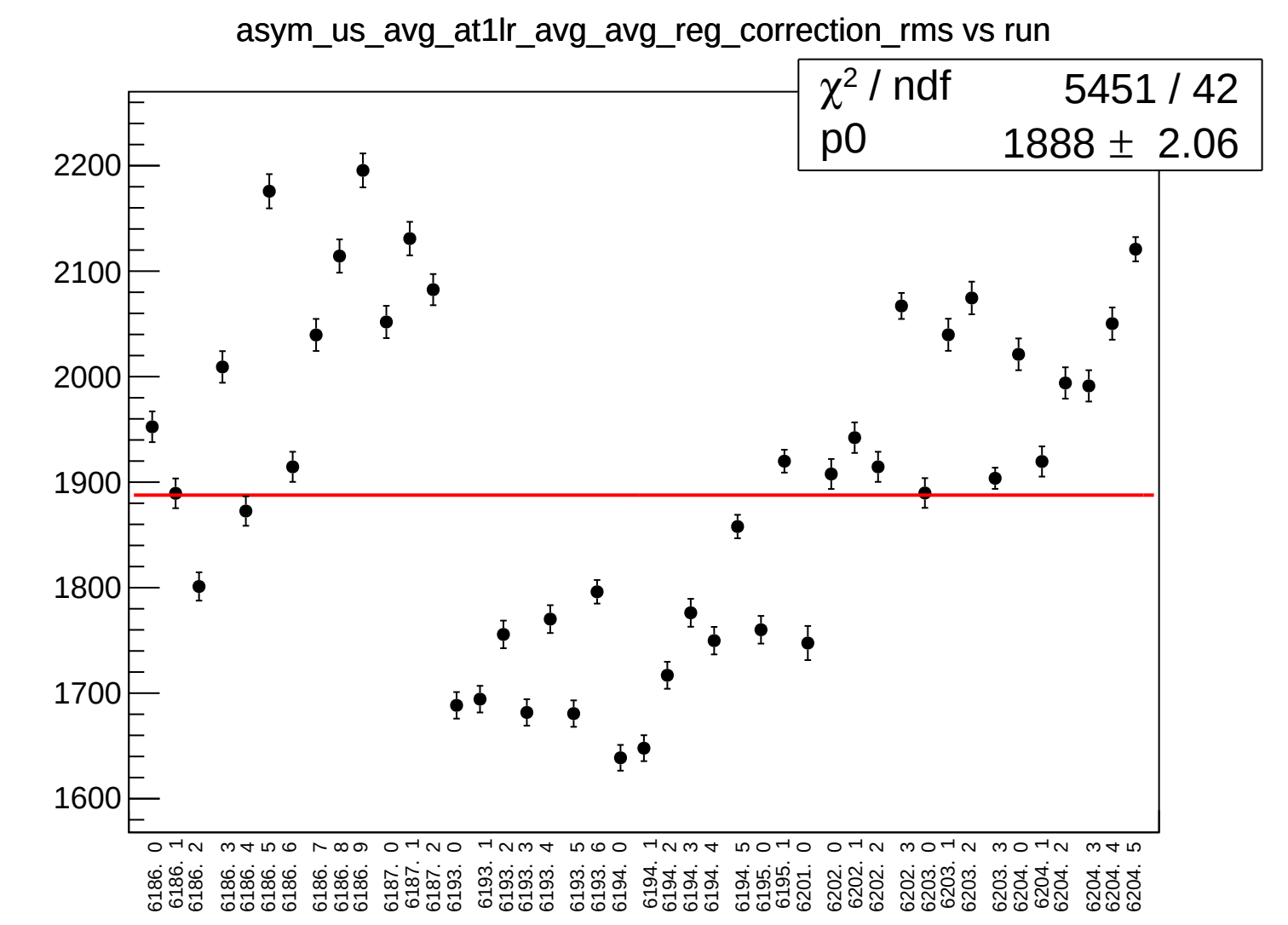

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 32.62 / 42
p0 −5974 ± 3429
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1393
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

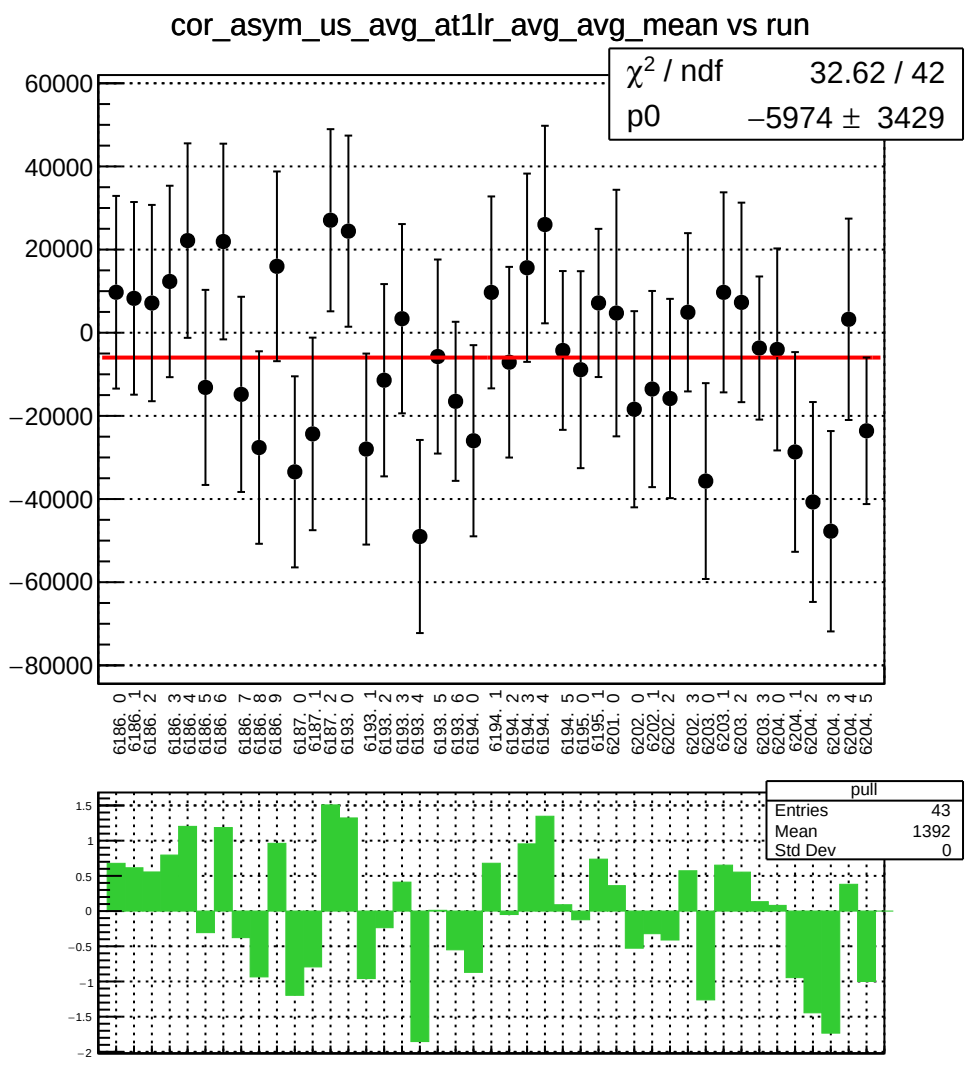

pull1D
Entries 43
Mean −0.002423
Std Dev 0.871
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

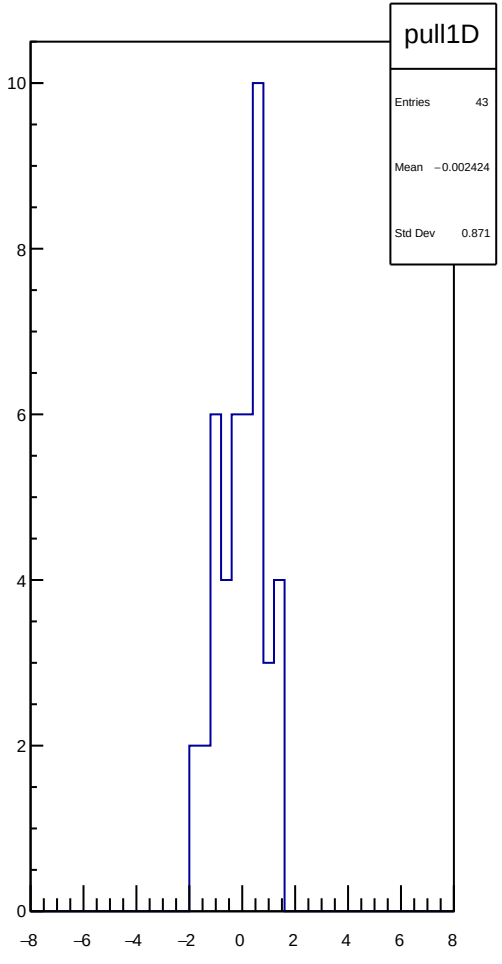

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 334.8 / 42
p0 2229 ± 2.424
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

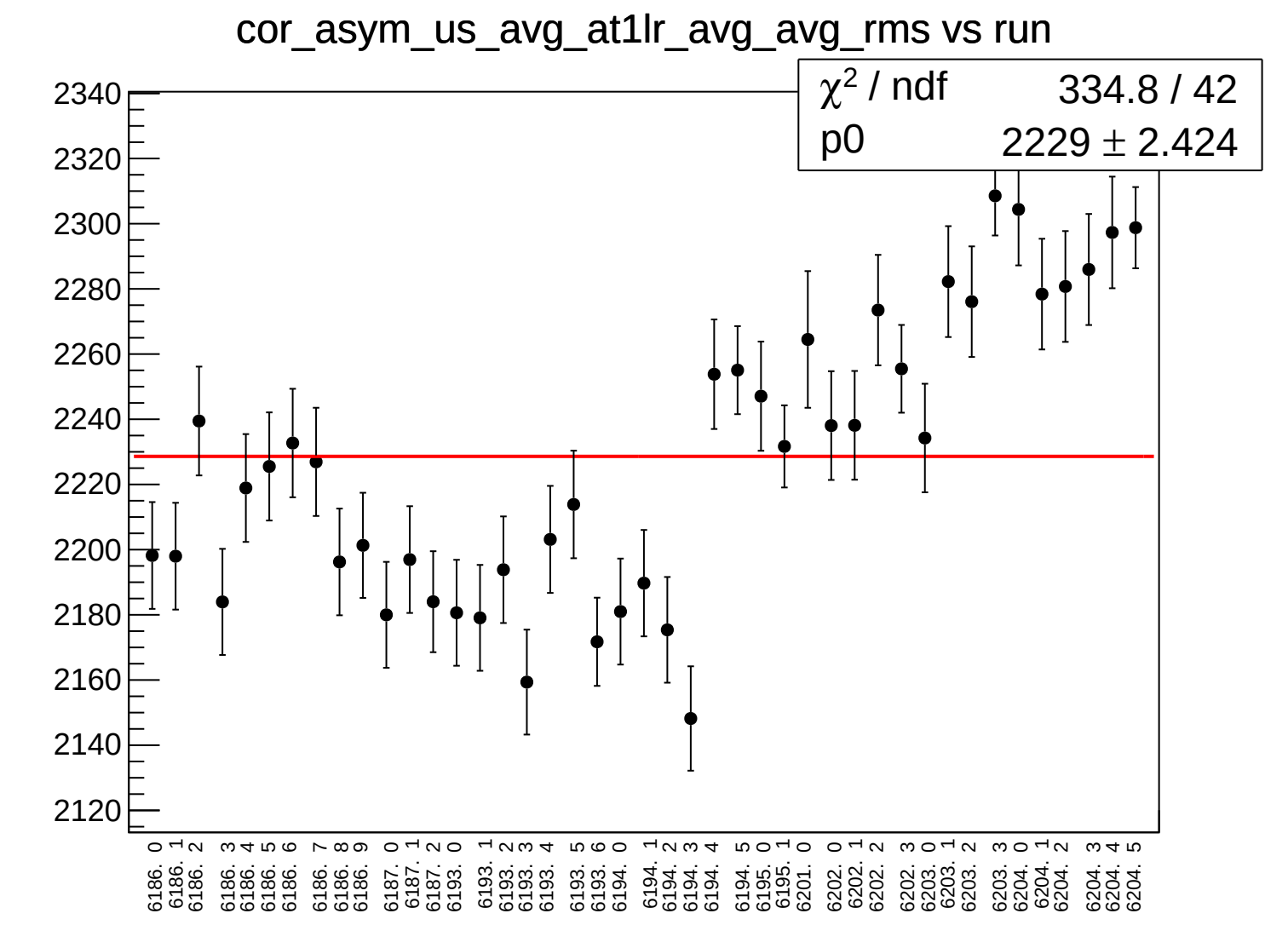

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 62.13 / 42
p0 3071 ± 2913
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3857
Std Dev 0
4
3
2
1
0
−1
−2
−3

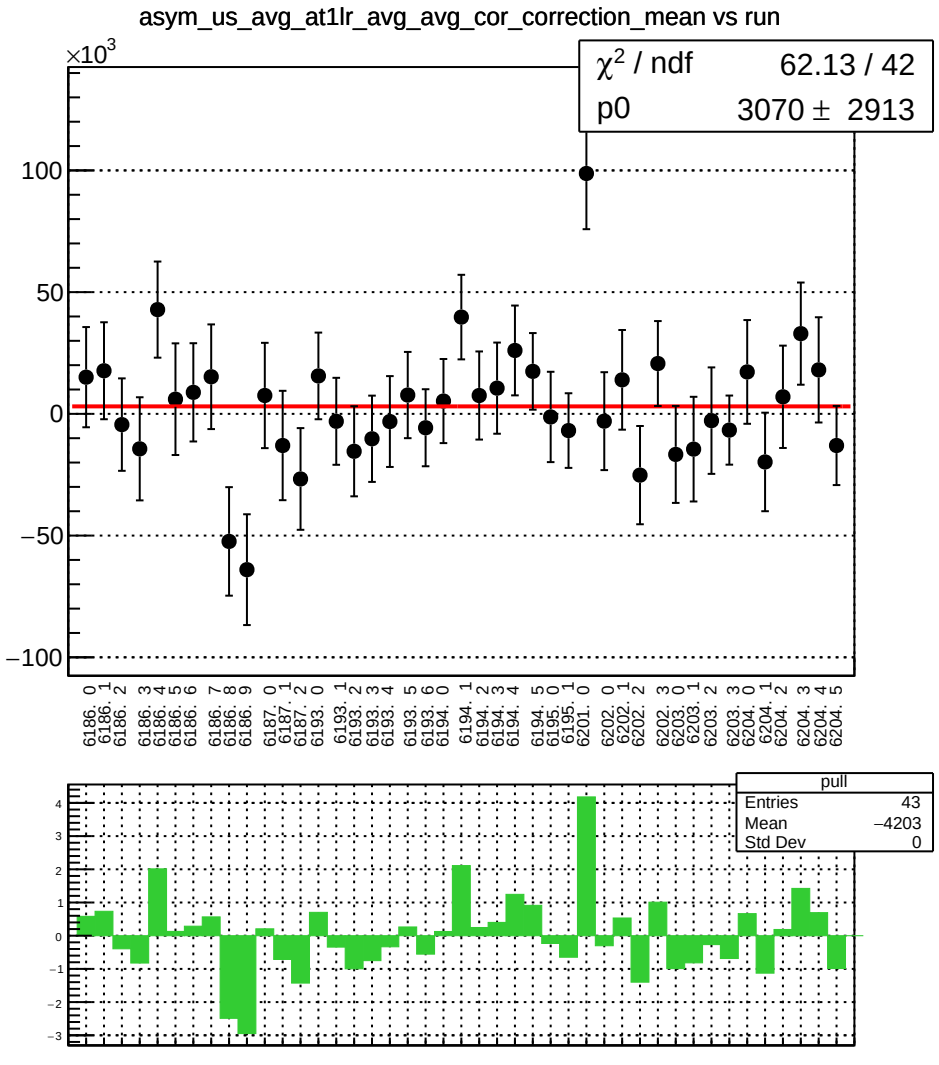

pull1D
Entries 43
Mean −0.0003052
Std Dev 1.202
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

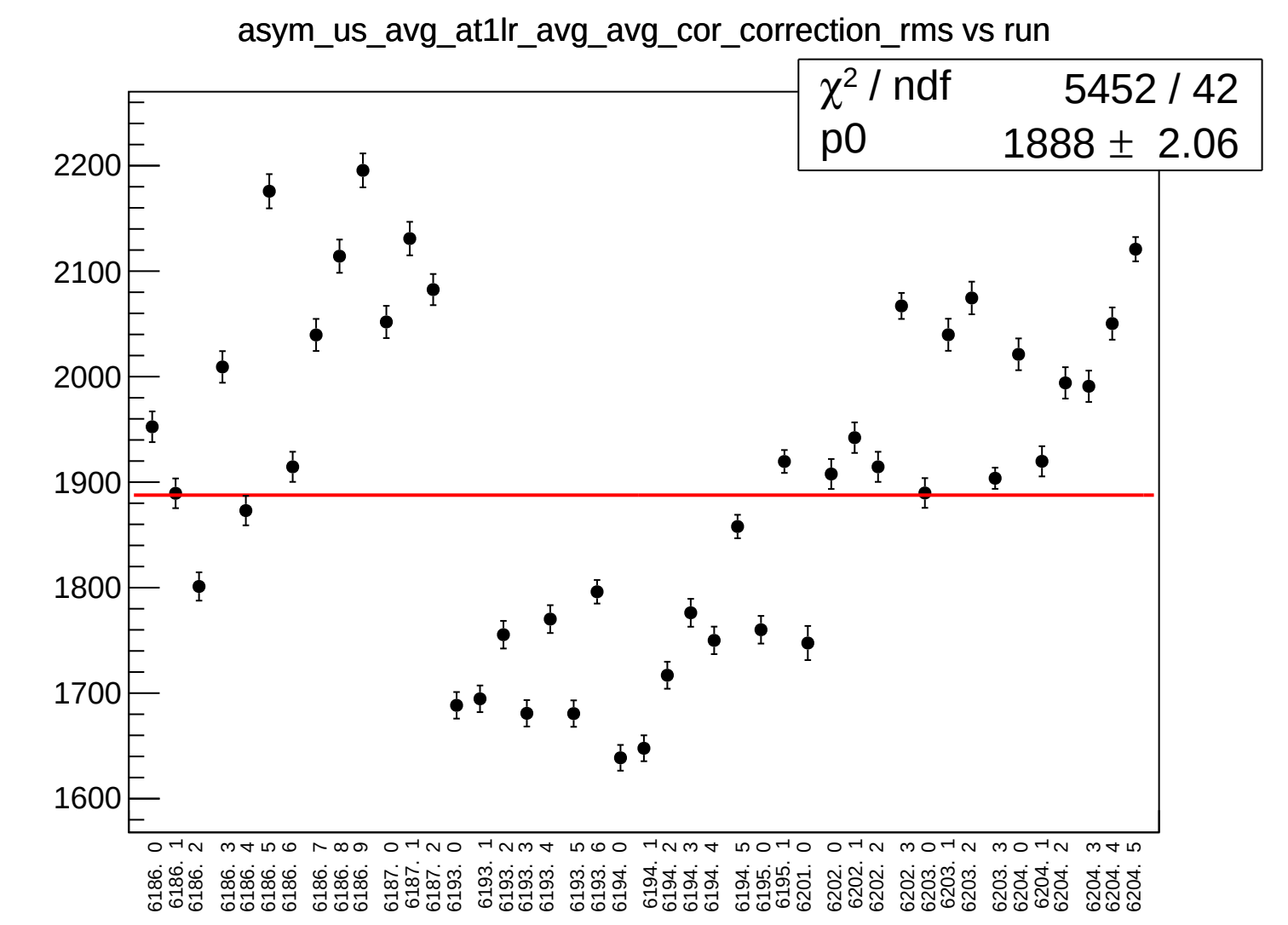

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 5451 / 42
p0 1888 ± 2.06
2200
2100
2000
1900
1800
1700
1600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

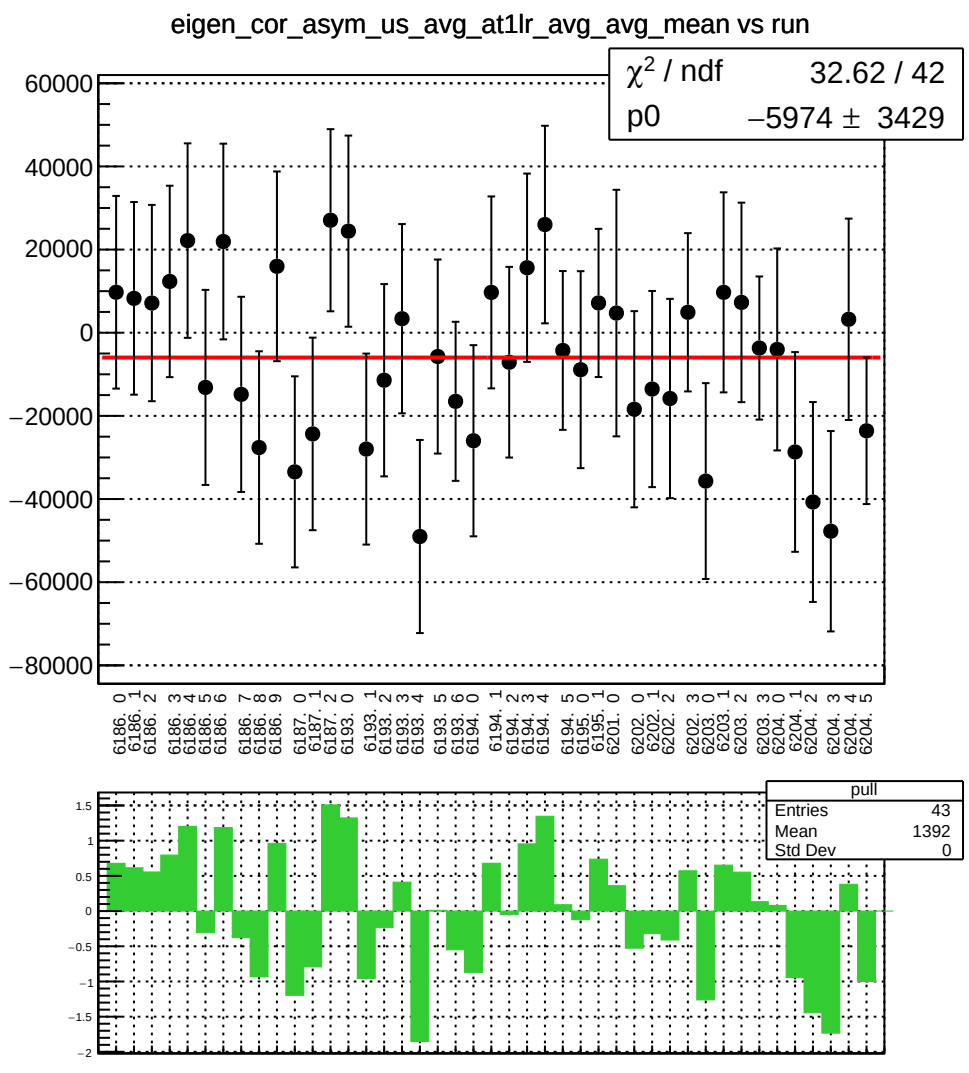

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 32.62 / 42
p0 −5974 ± 3429
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1392
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

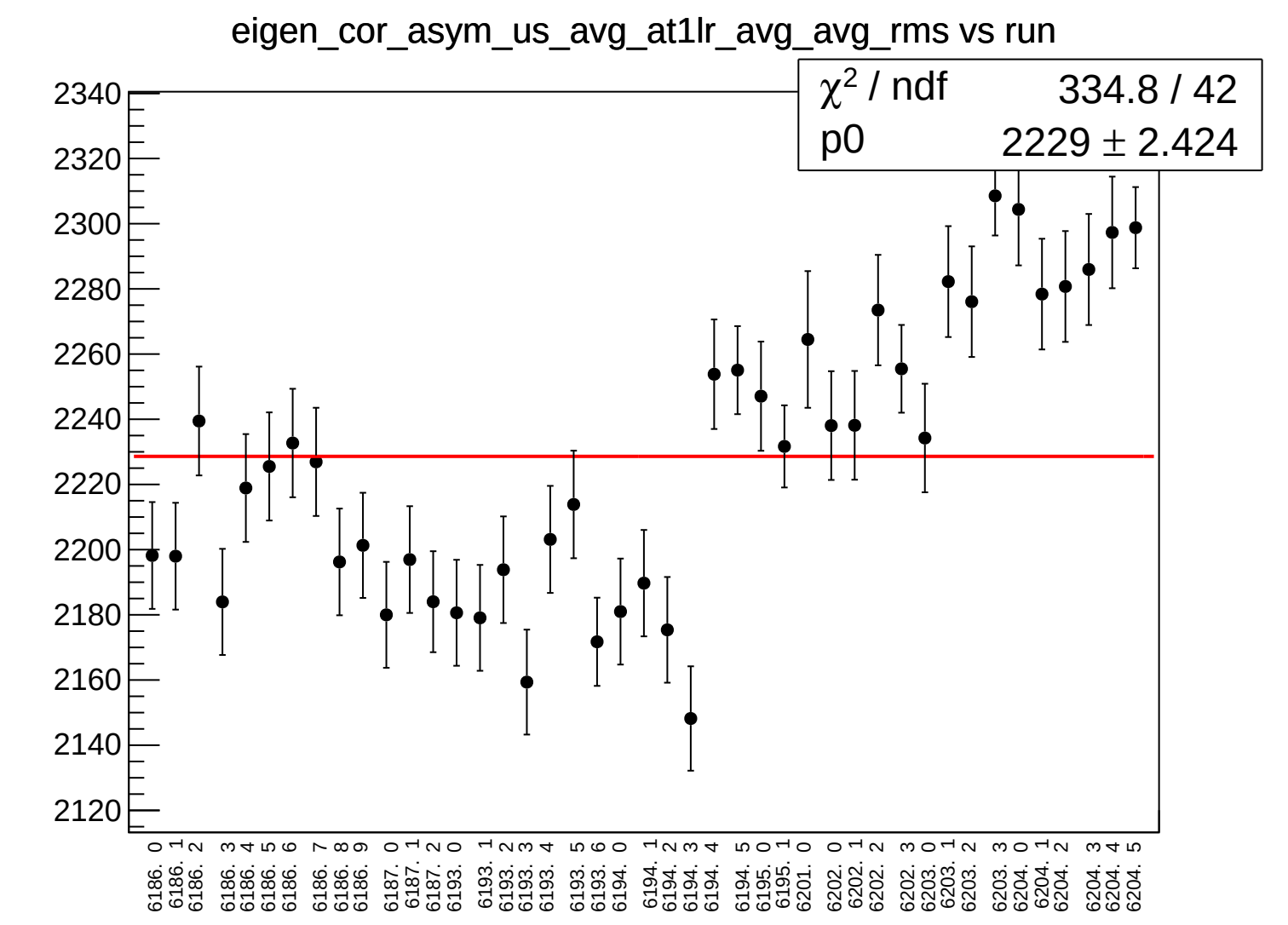

pull1D
Entries 43
Mean −0.002424
Std Dev 0.871
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

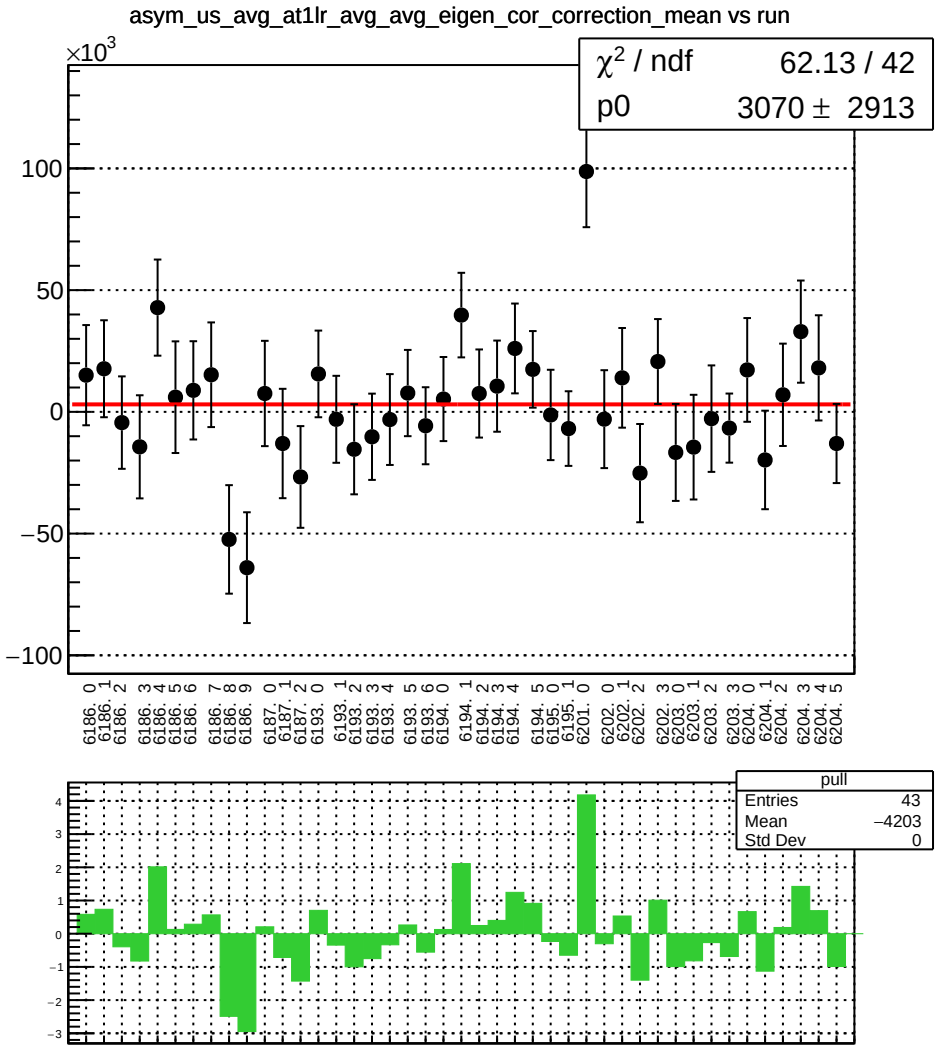

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 334.8 / 42
p0 2229 ± 2.424
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

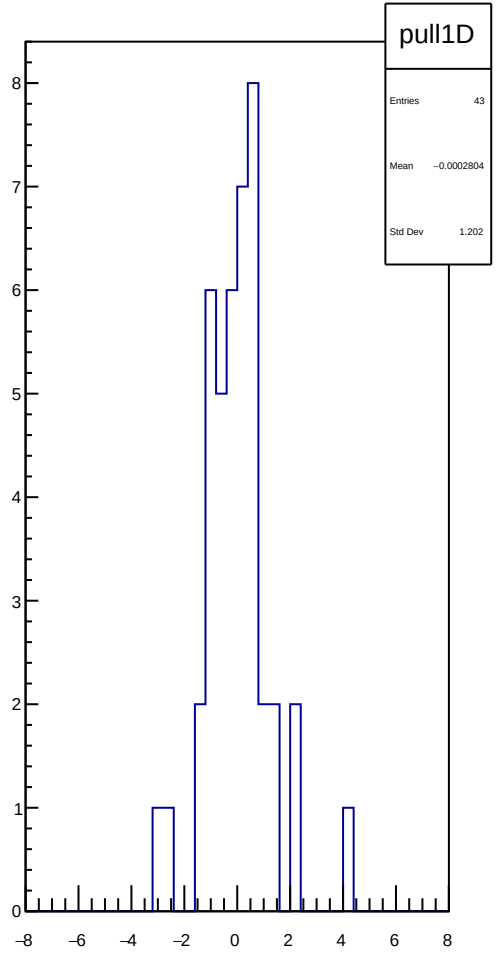

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 62.13 / 42
p0 3070 ± 2913
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −4203
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.0002804
Std Dev 1.202
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

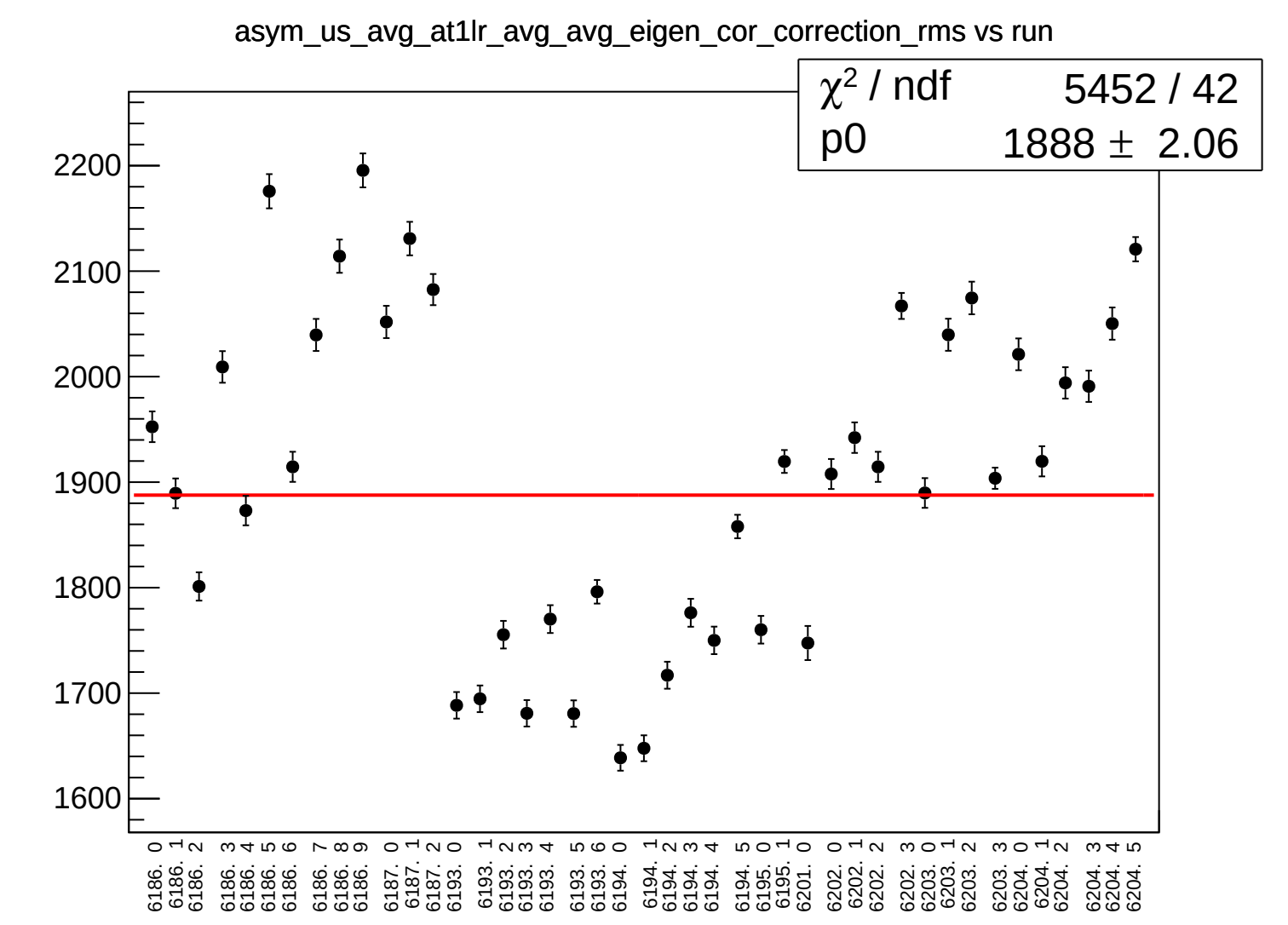

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 5452 / 42
p0 1888 ± 2.06
2200
2100
2000
1900
1800
1700
1600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 32.62 / 42
p0 −5974 ± 3429
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1392
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.002424
Std Dev 0.871
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 334.8 / 42
p0 2229 ± 2.424
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 62.13 / 42
p0 3070 ± 2913
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −4203
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.0002804
Std Dev 1.202
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5452 / 42
p0 1888 ± 2.06
2200
2100
2000
1900
1800
1700
1600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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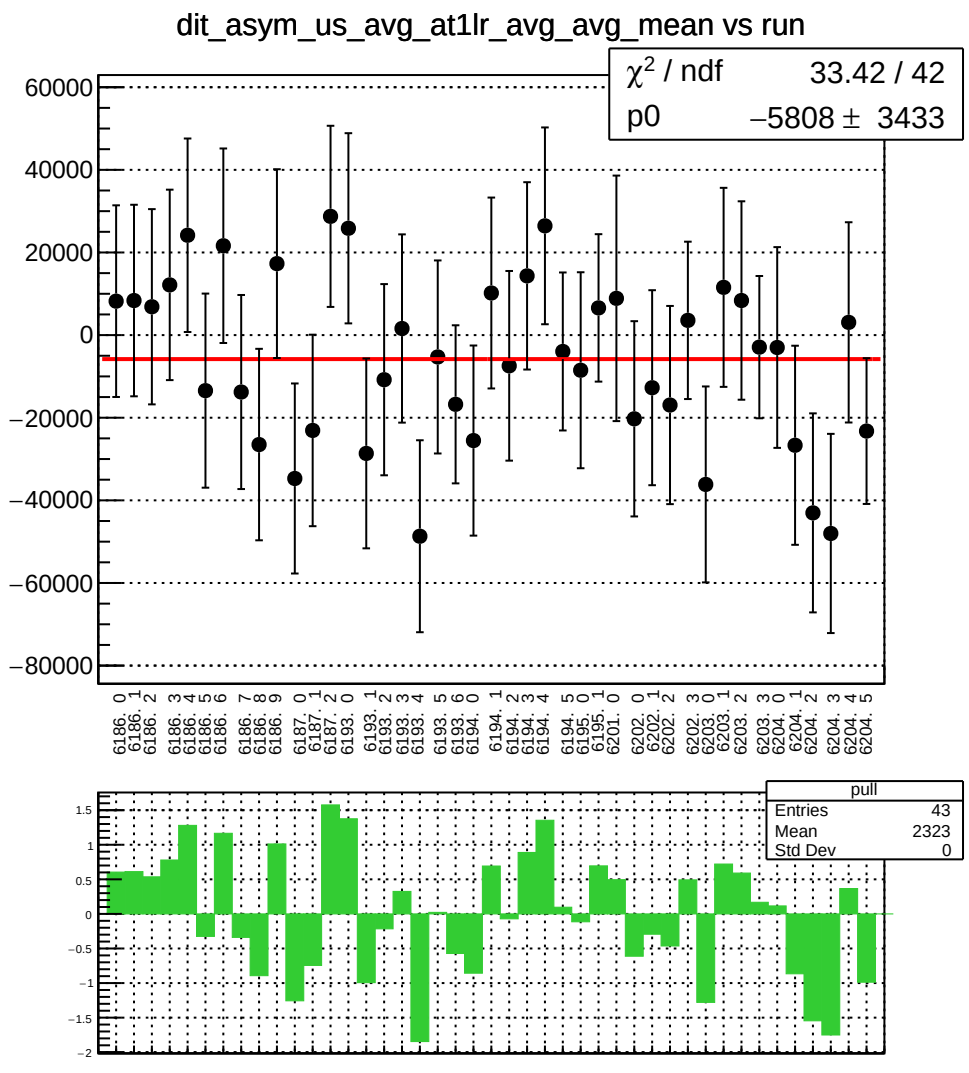
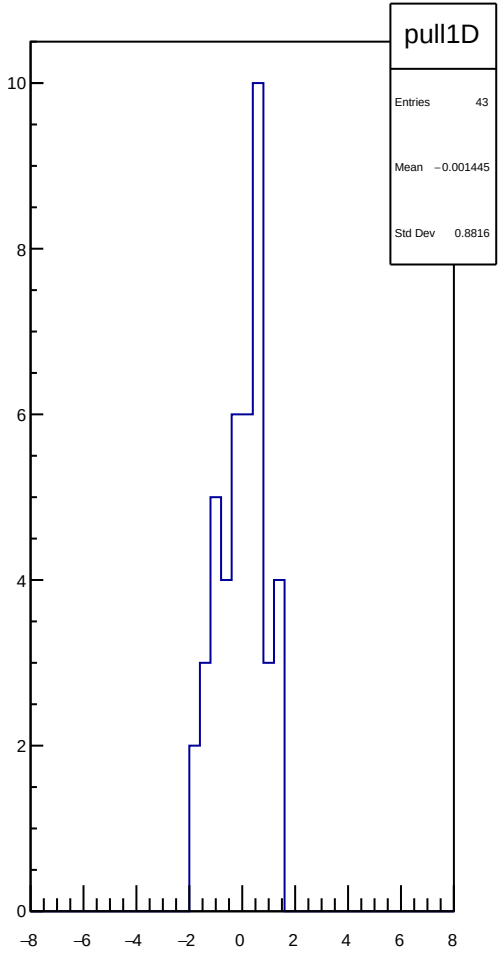
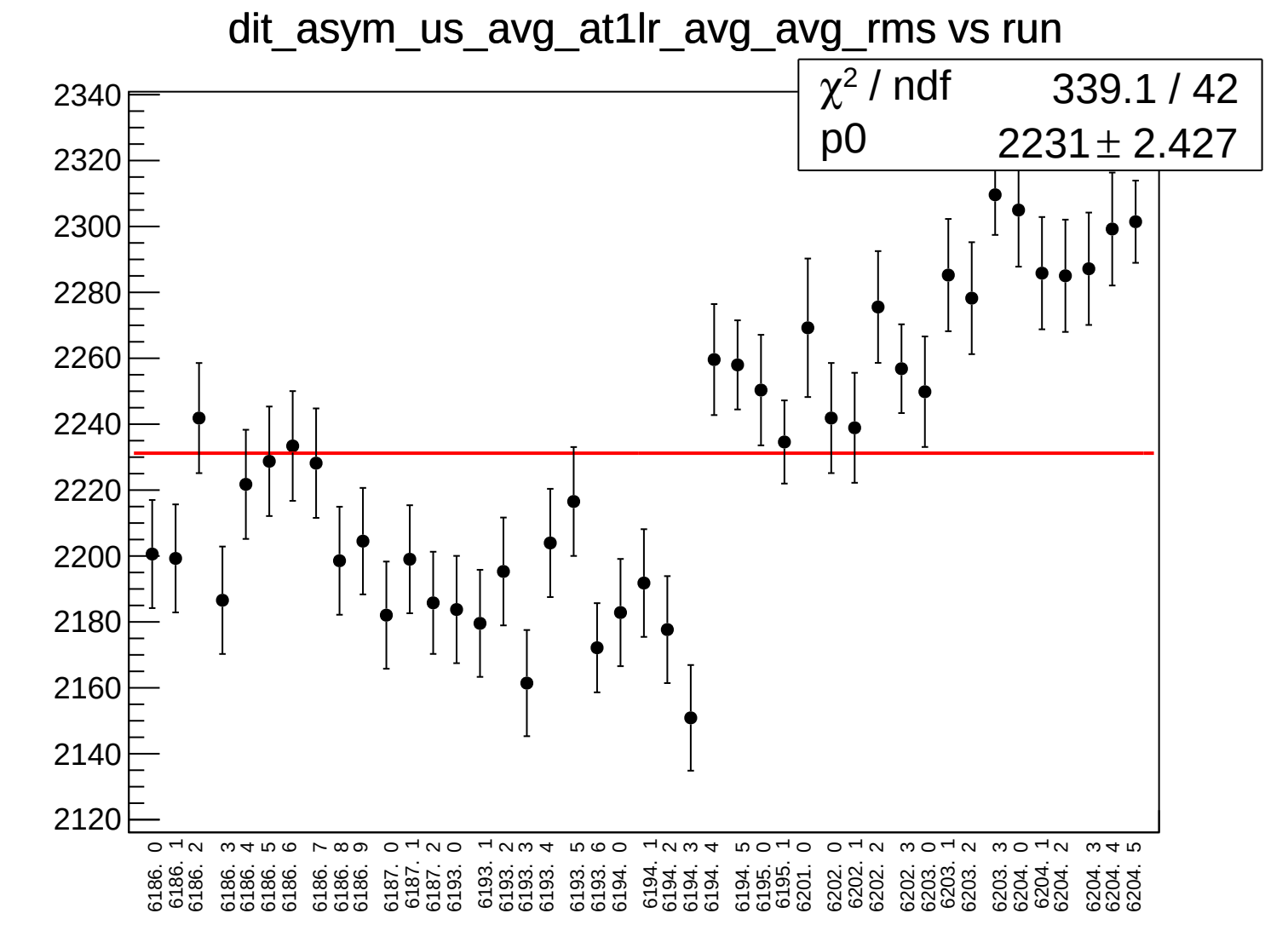
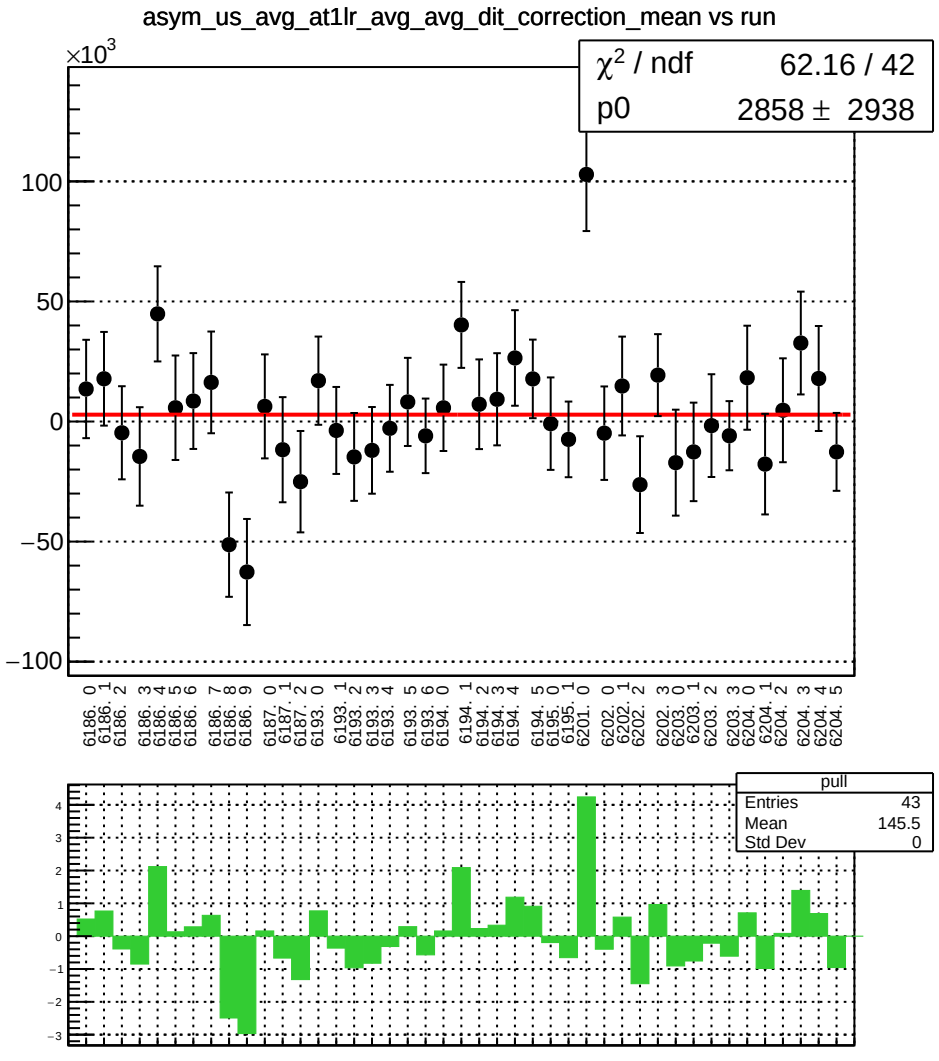
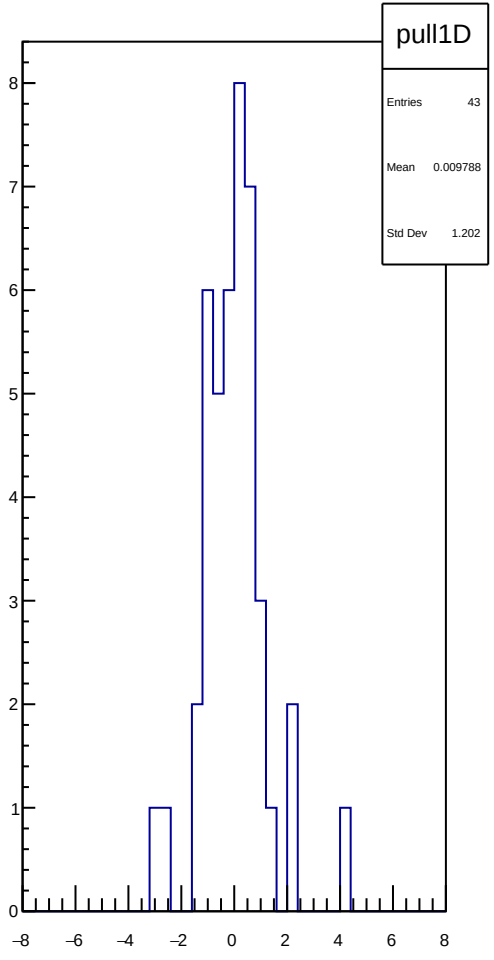
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

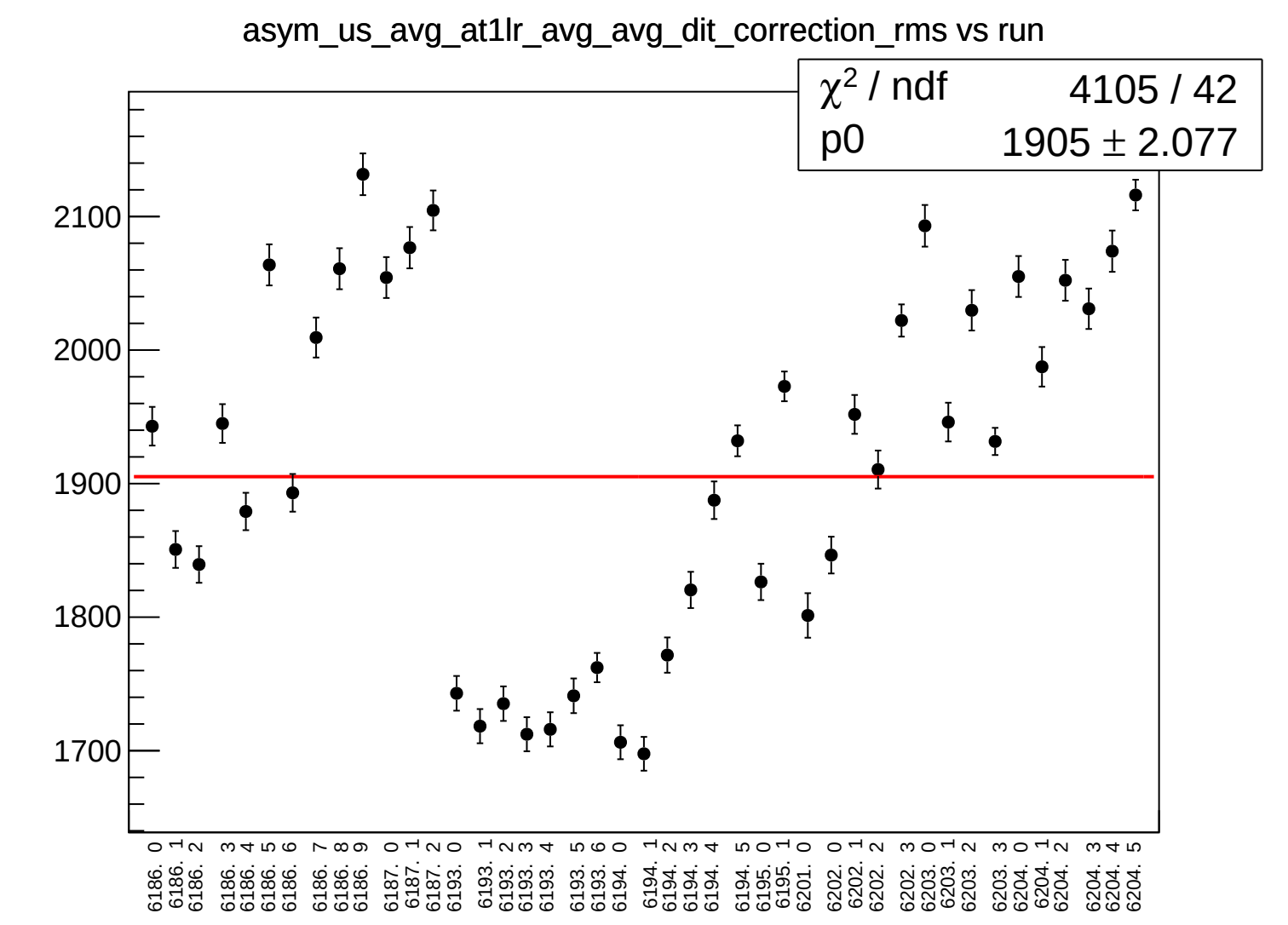

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 33.42 / 42
p0 −5808 ± 3433
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2323
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

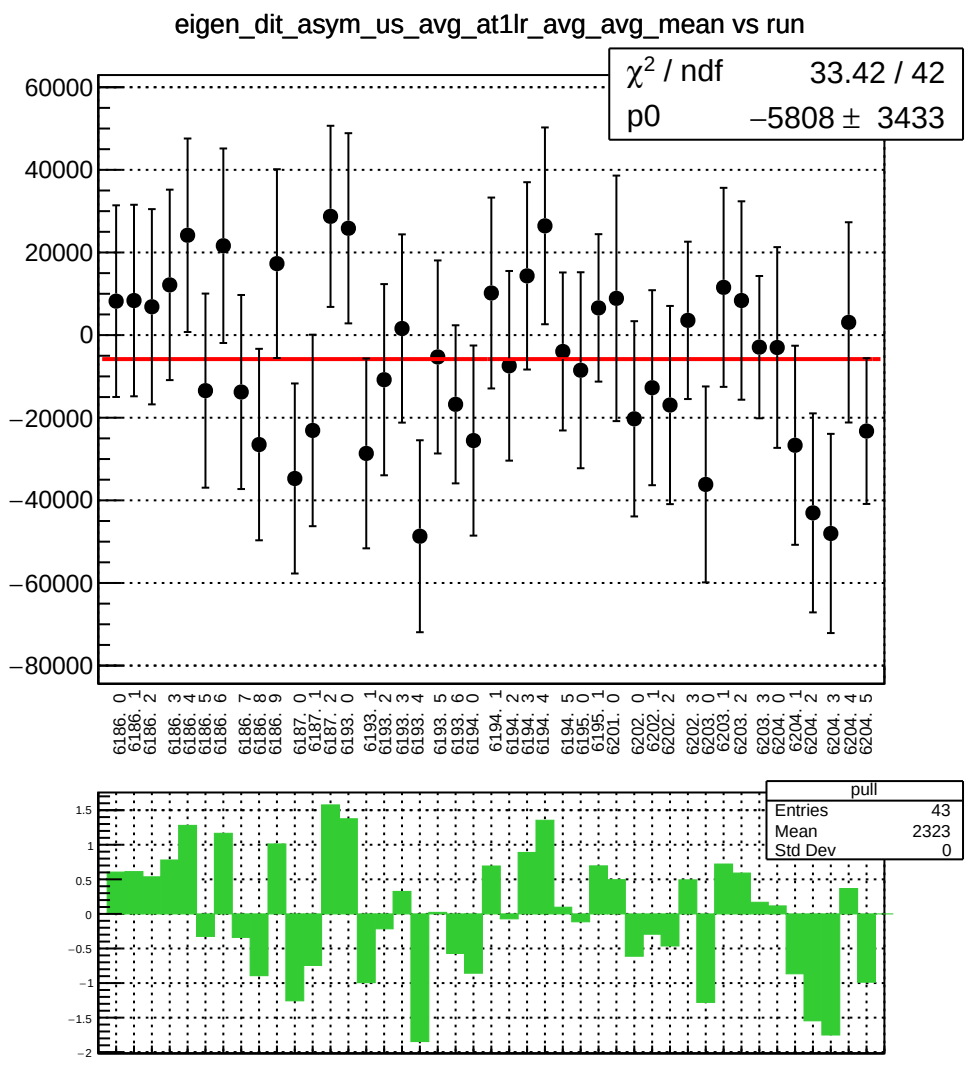

pull1D
Entries 43
Mean −0.001445
Std Dev 0.8816
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

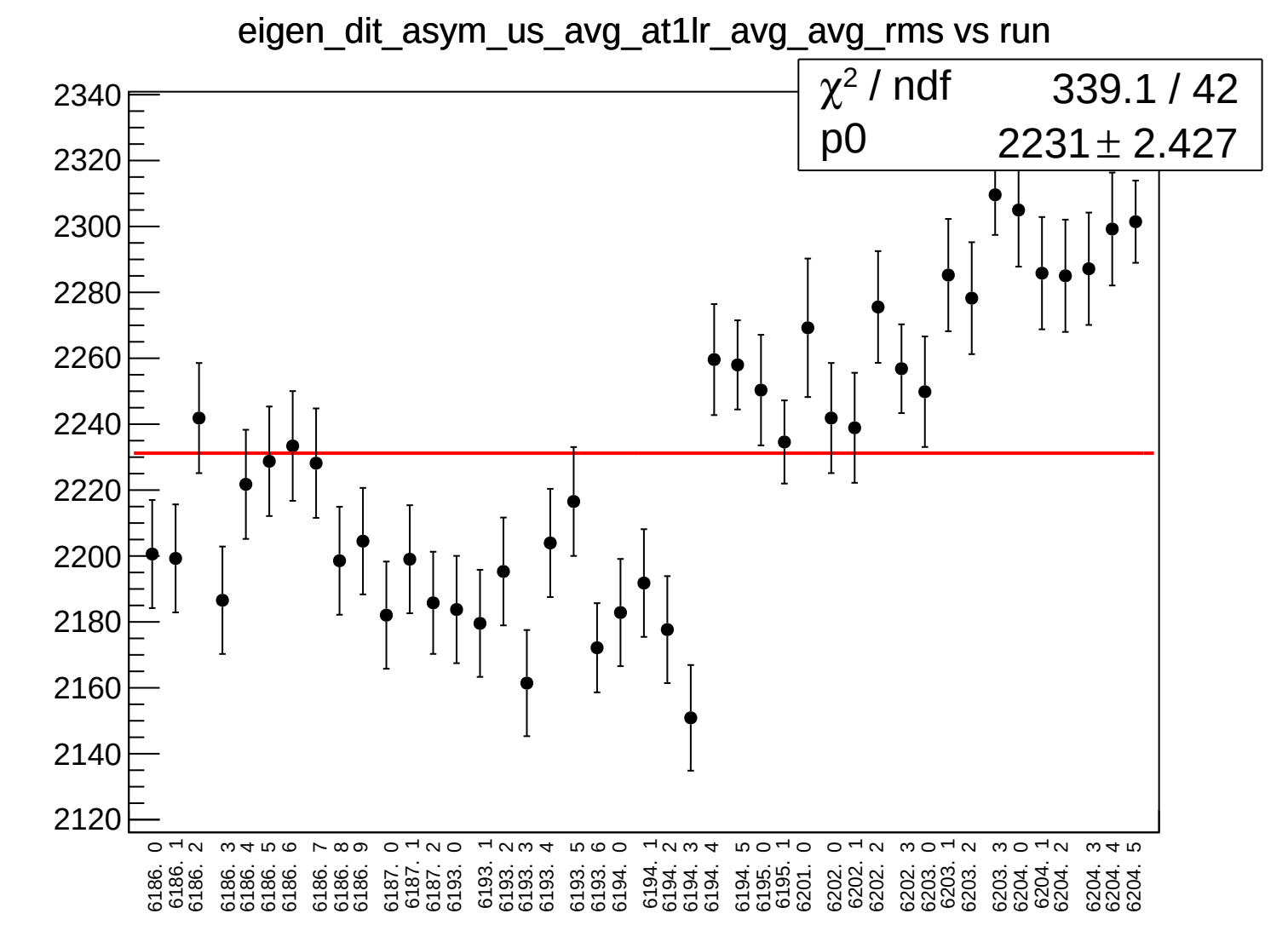

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 339.1 / 42
p0 2231 ± 2.427
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 62.16 / 42
p0 2858 ± 2938
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 145.5
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.009788
Std Dev 1.202
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 4105 / 42
p0 1905 ± 2.077
2100
2000
1900
1800
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 33.42 / 42
p0 −5808 ± 3433
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2323
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.001445
Std Dev 0.8816
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 339.1 / 42
p0 2231 ± 2.427
2340
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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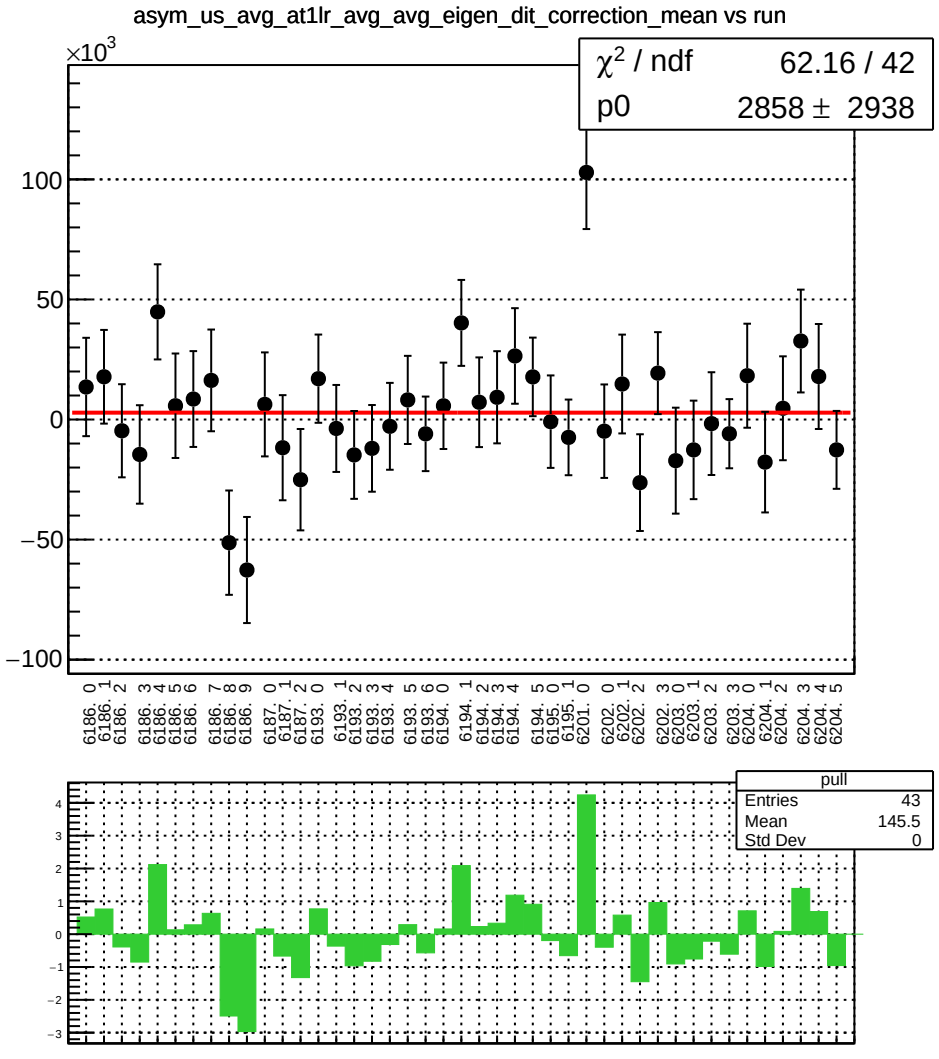
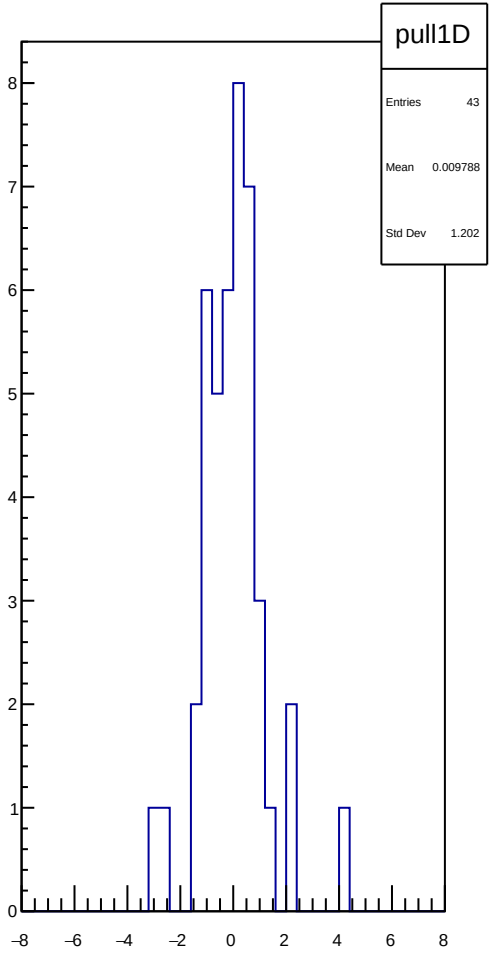
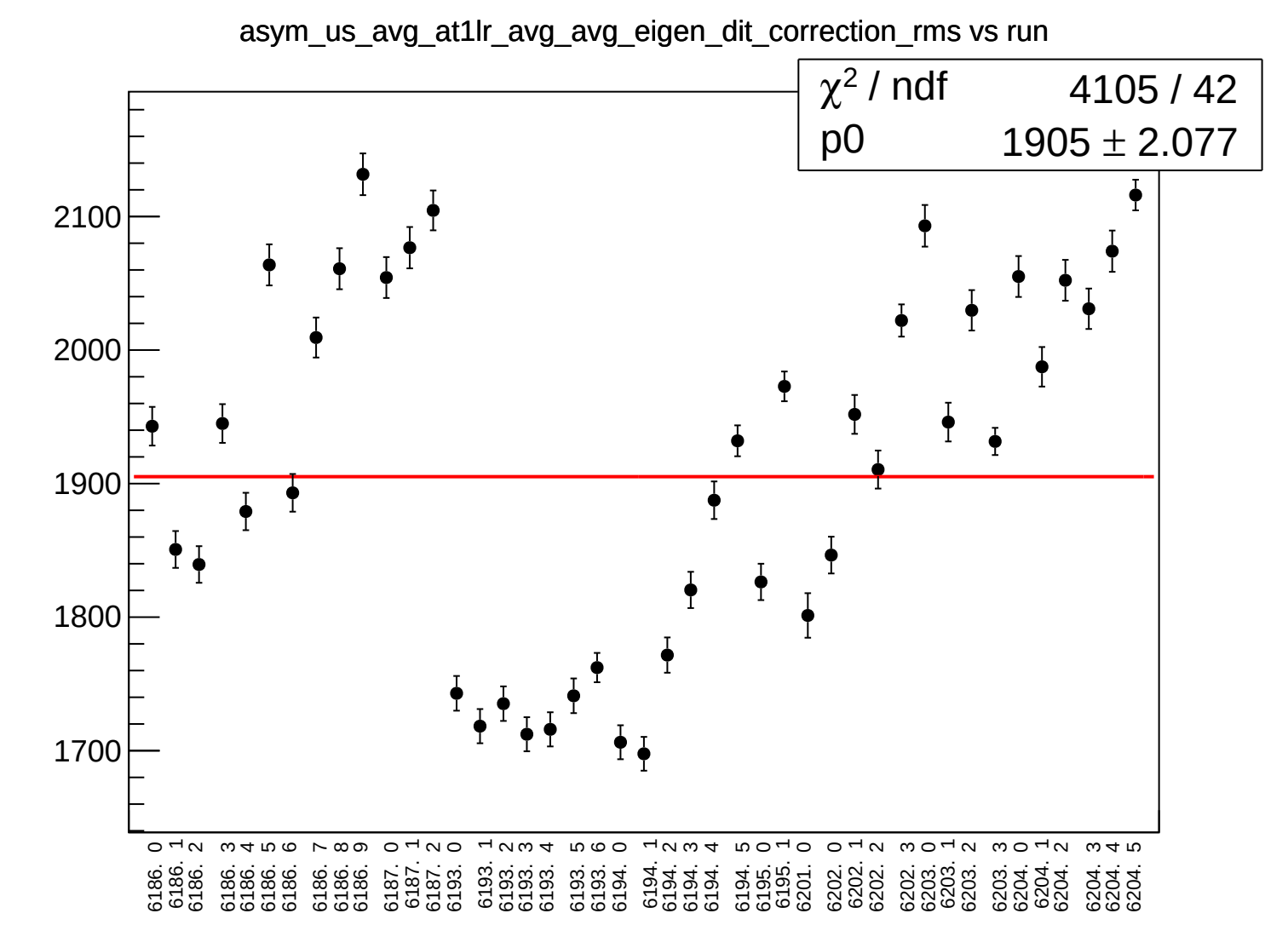
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 62.16 / 42
p0 2858 ± 2938
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 145.5
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.009788
Std Dev 1.202
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 4105 / 42
p0 1905 ± 2.077
2100
2000
1900
1800
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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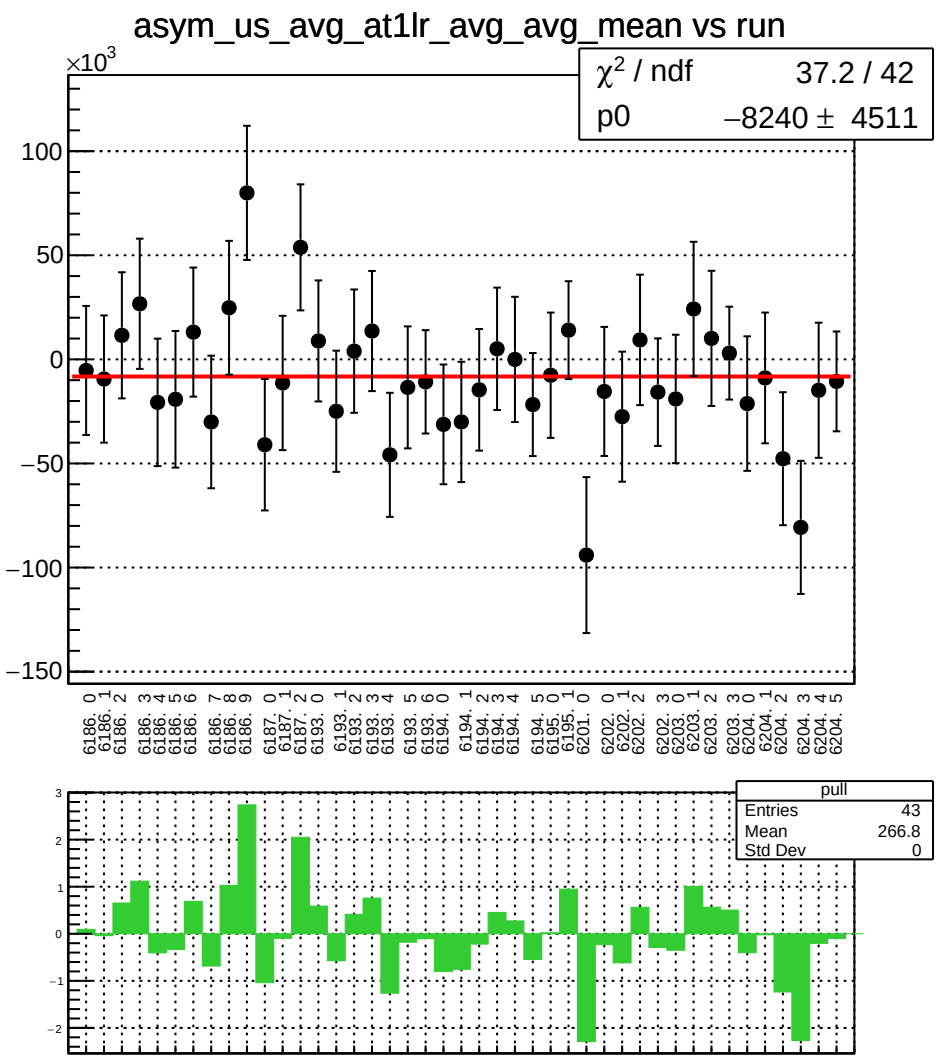
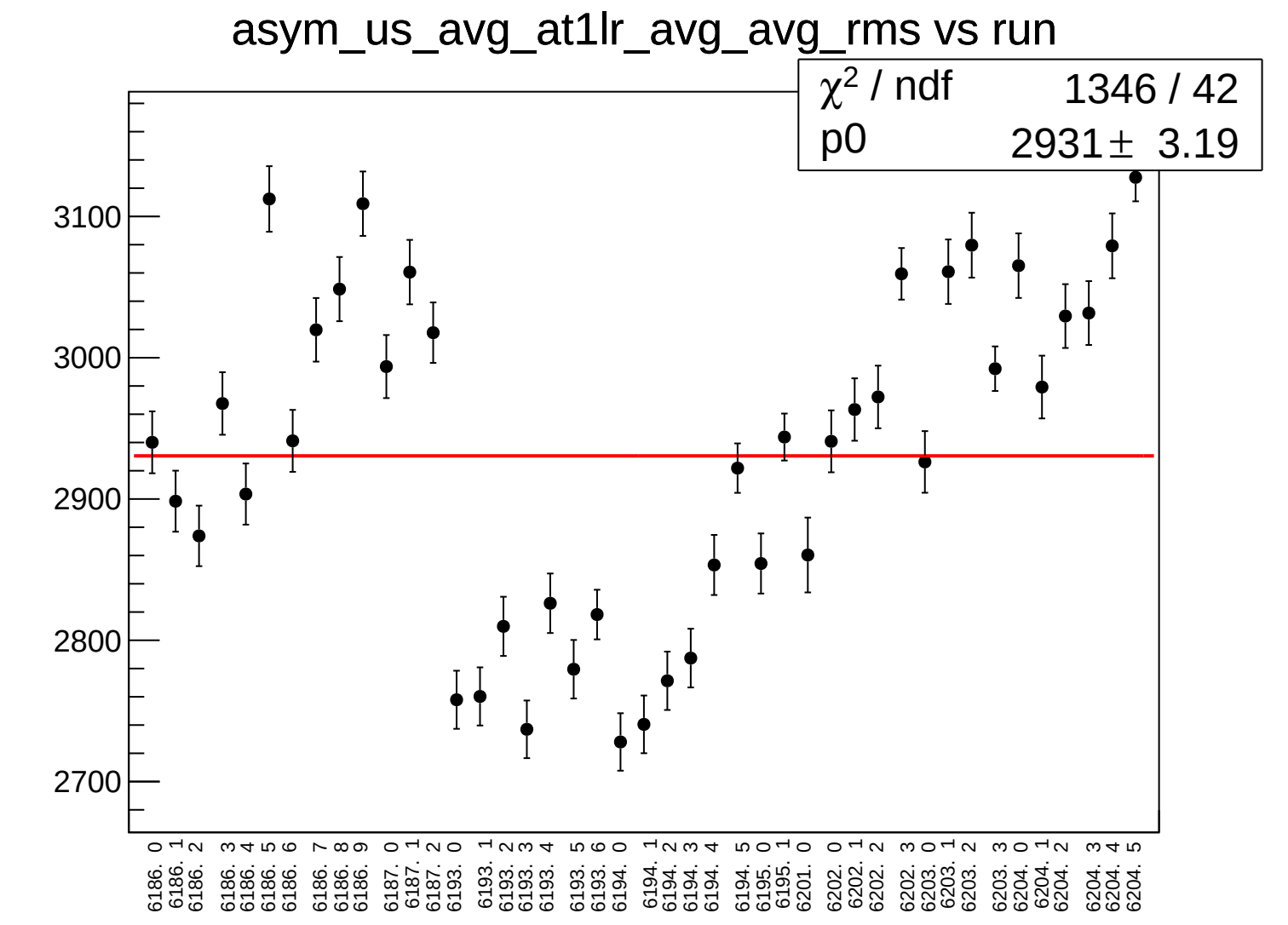
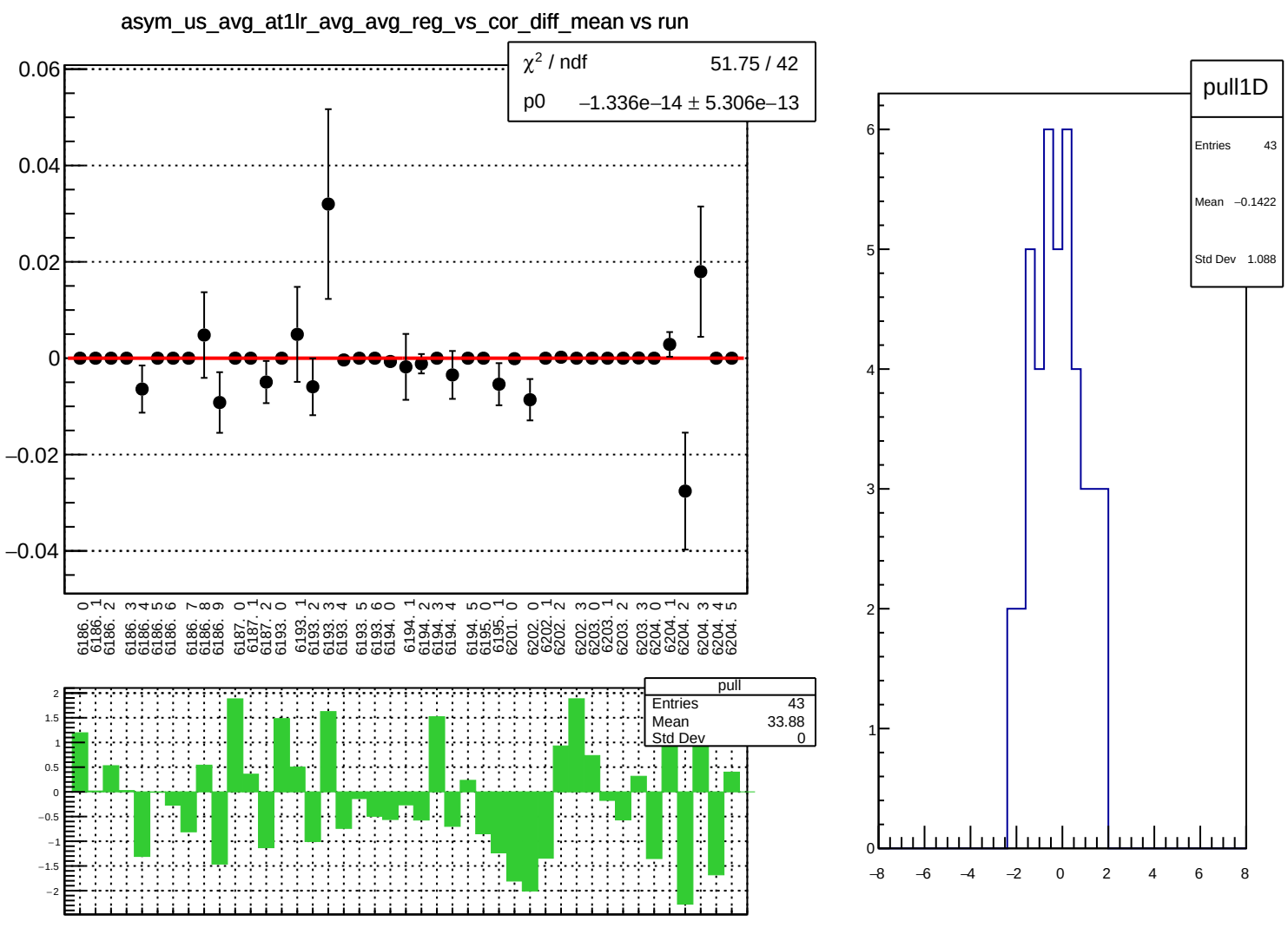
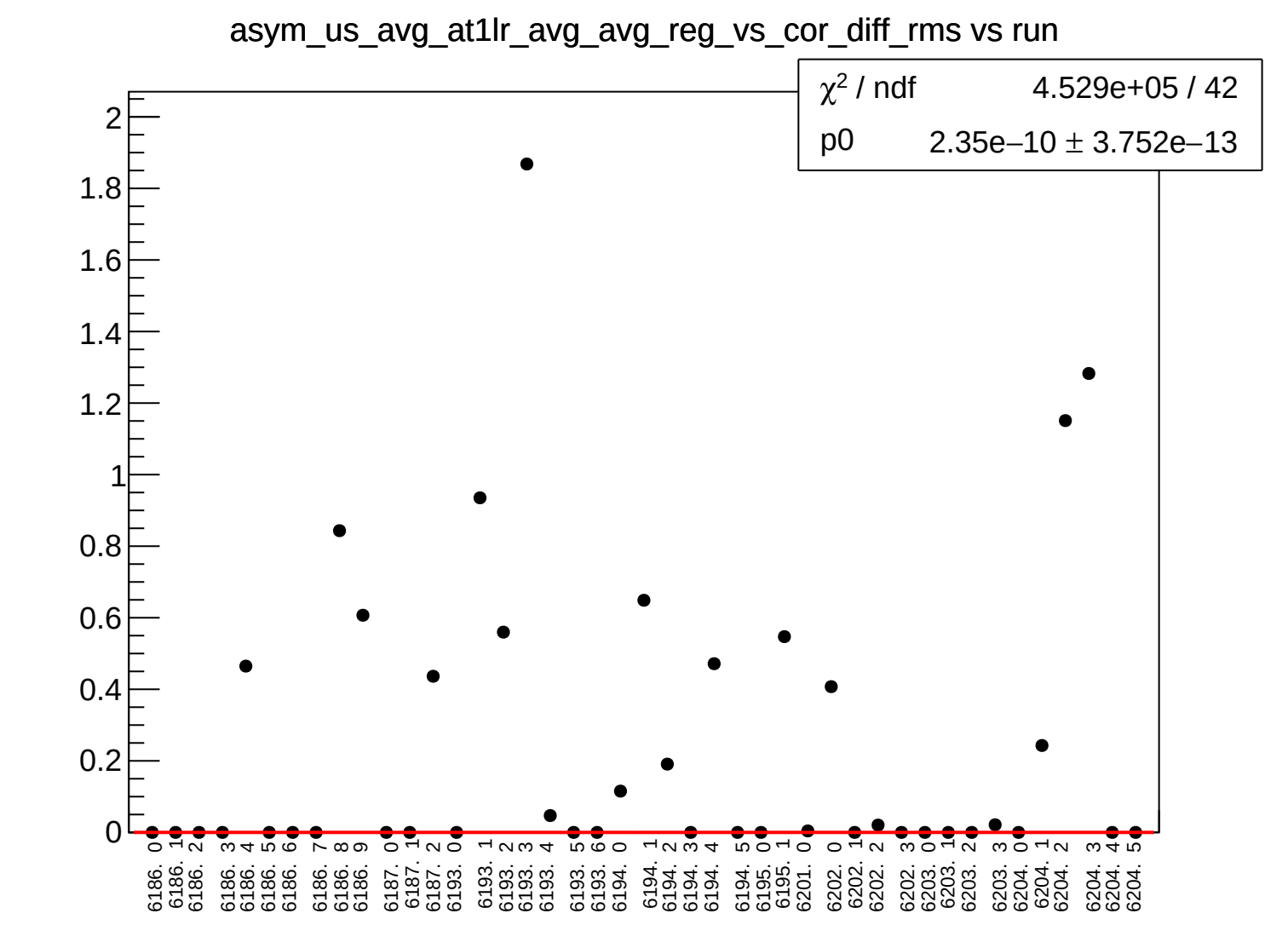
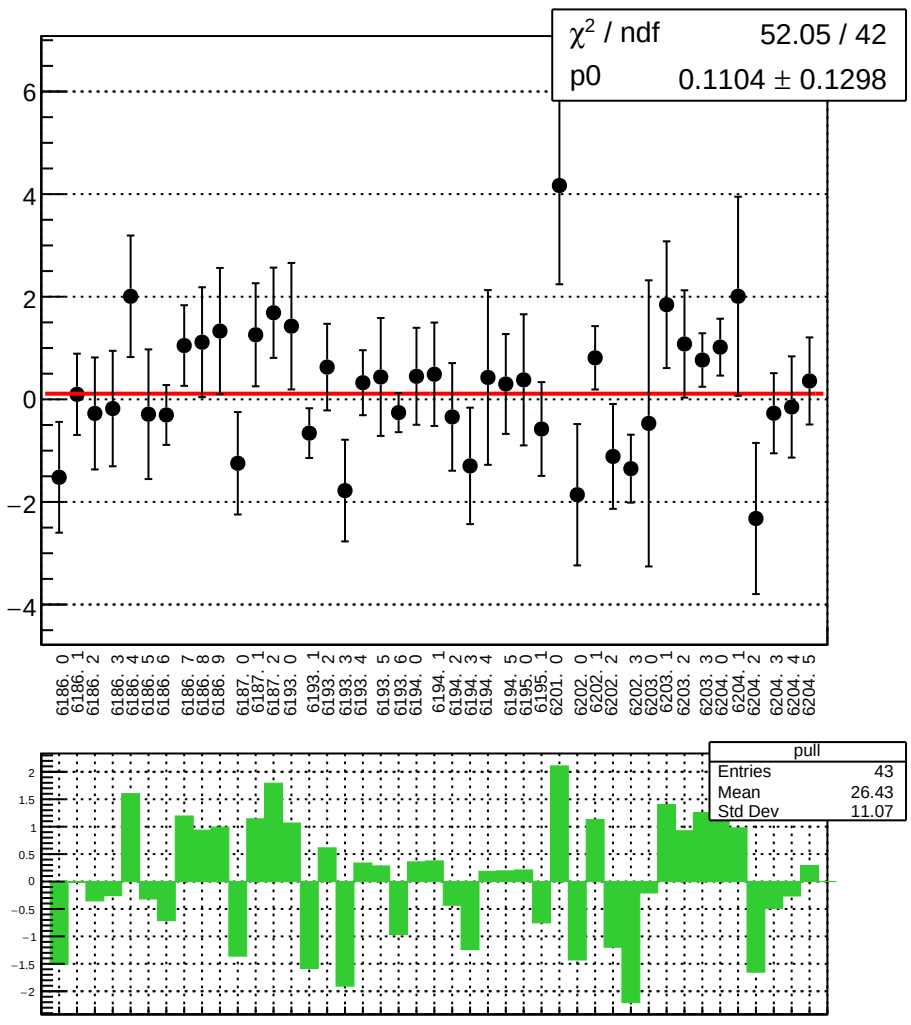
6204. 4
6204. 5

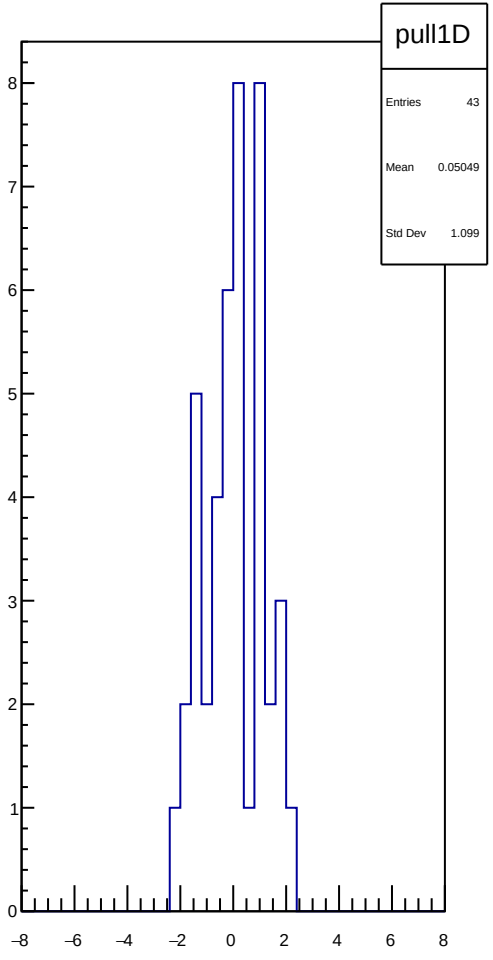

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 37.2 / 42
p0 −8240 ± 4511
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 266.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01371
Std Dev 0.93
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

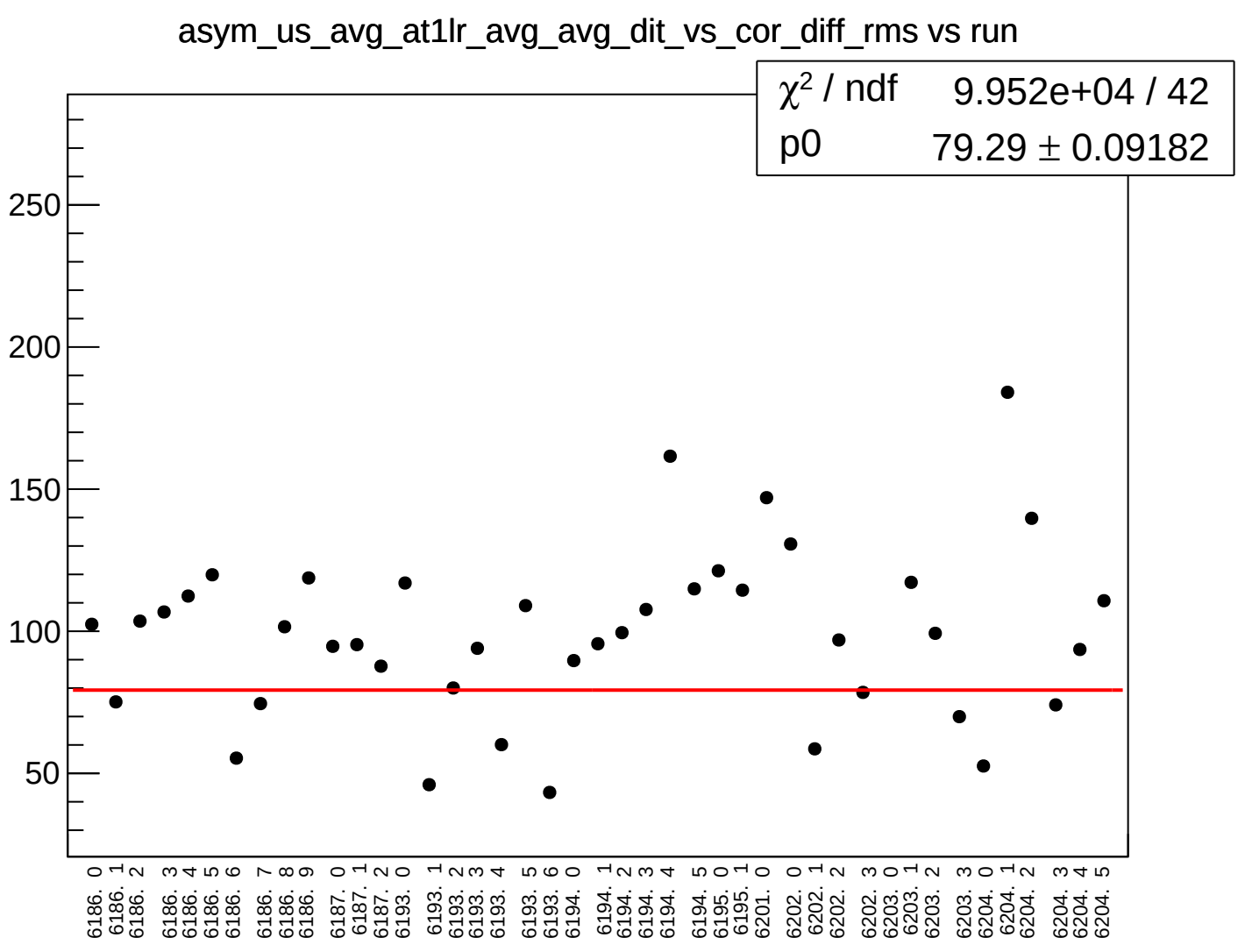

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1346 / 42
p0 2931 ± 3.19
3100
3000
2900
2800
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

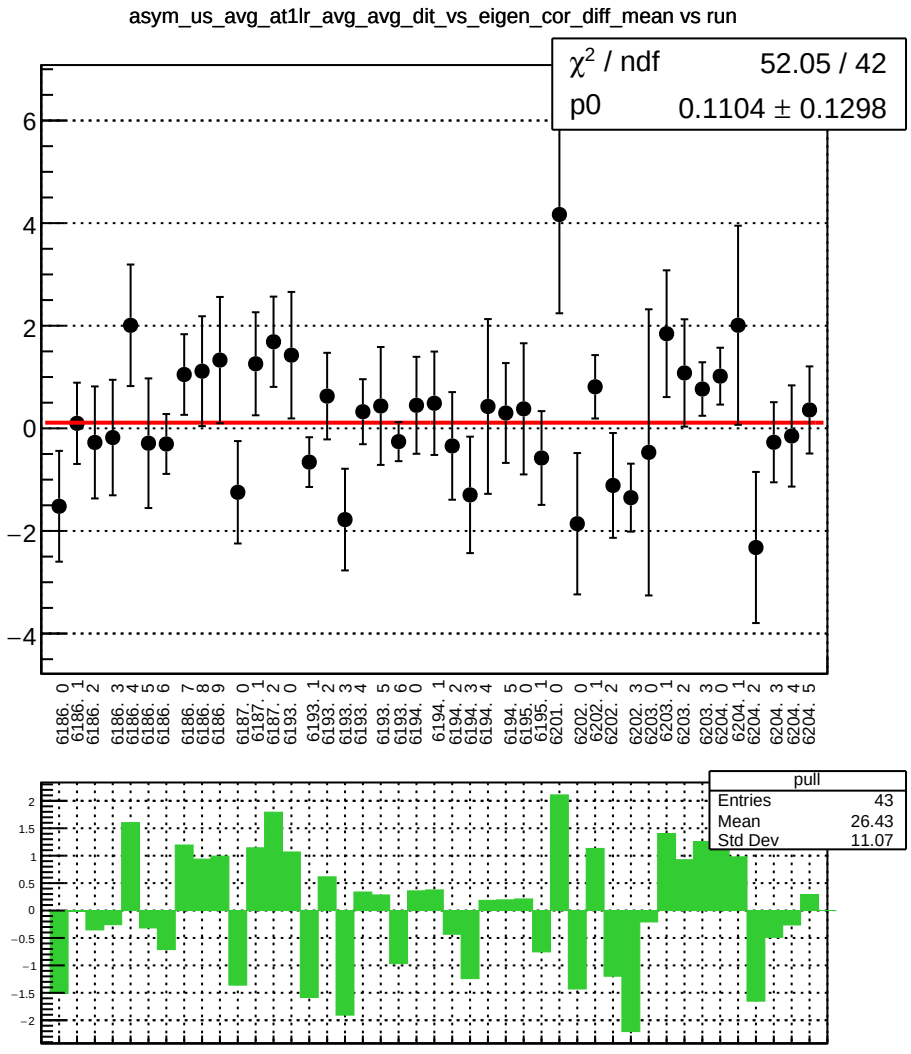

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 51.75 / 42
p0 −1.336e−14 ± 5.306e−13
0.06
0.04
0.02
0
−0.02
−0.04
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 33.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1422
Std Dev 1.088
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

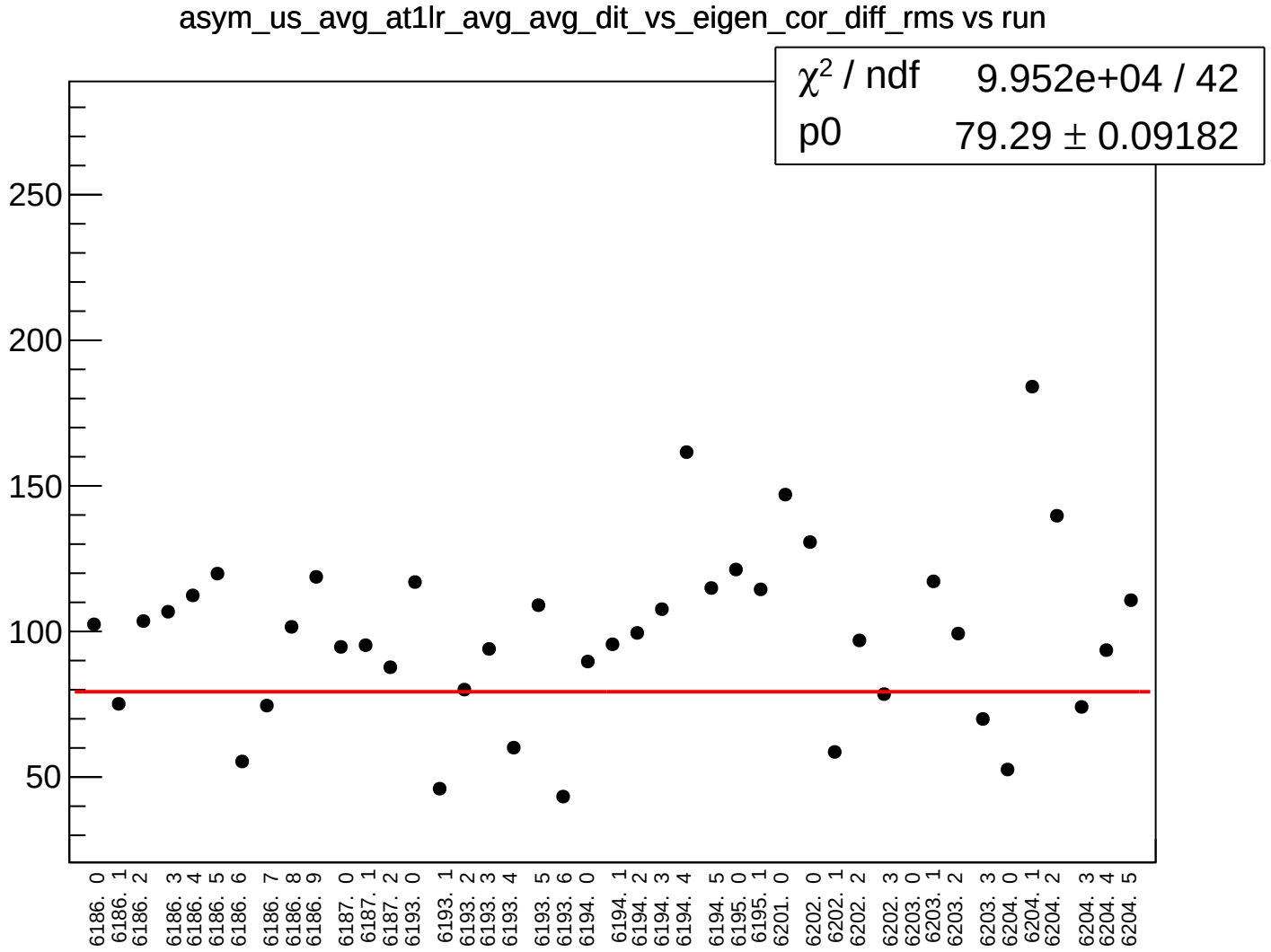

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.529e+05 / 42
p0 2.35e−10 ± 3.752e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

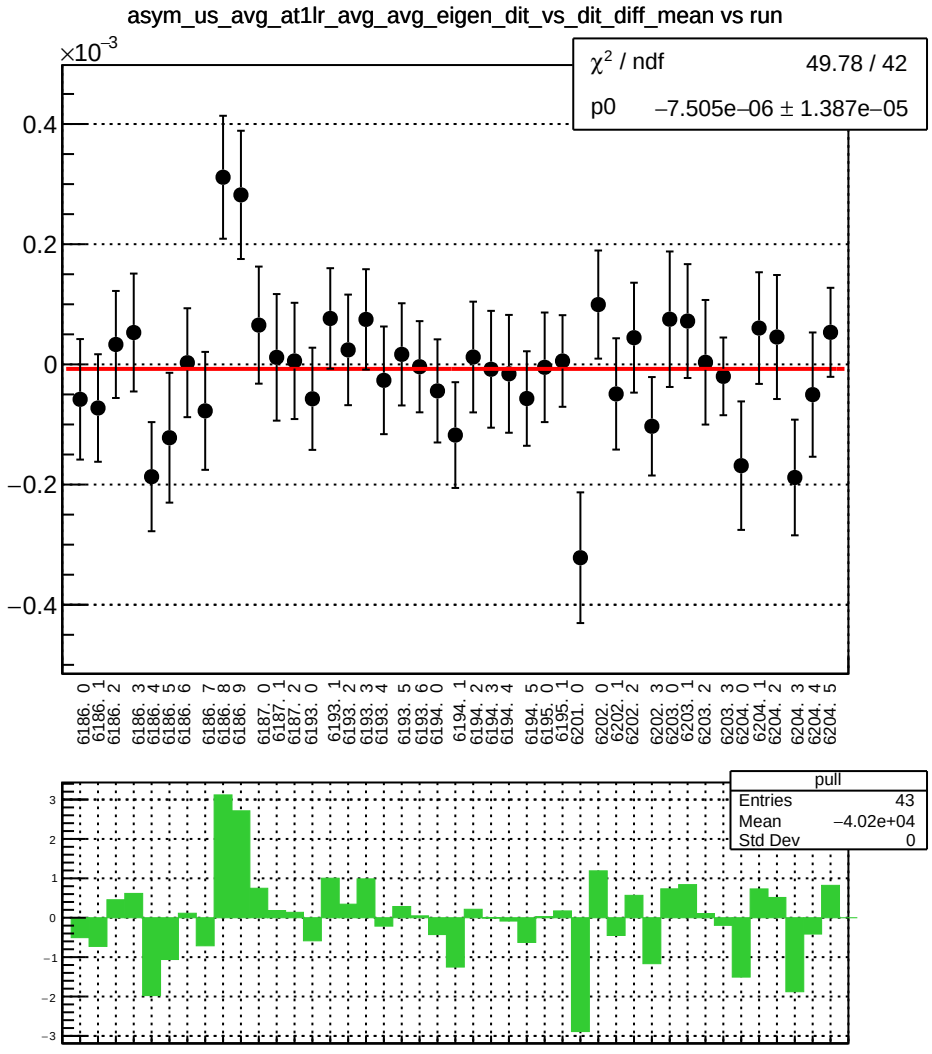

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 52.05 / 42
p0 0.1104 ± 0.1298
pull
Entries 43
Mean 26.43
Std Dev 11.07

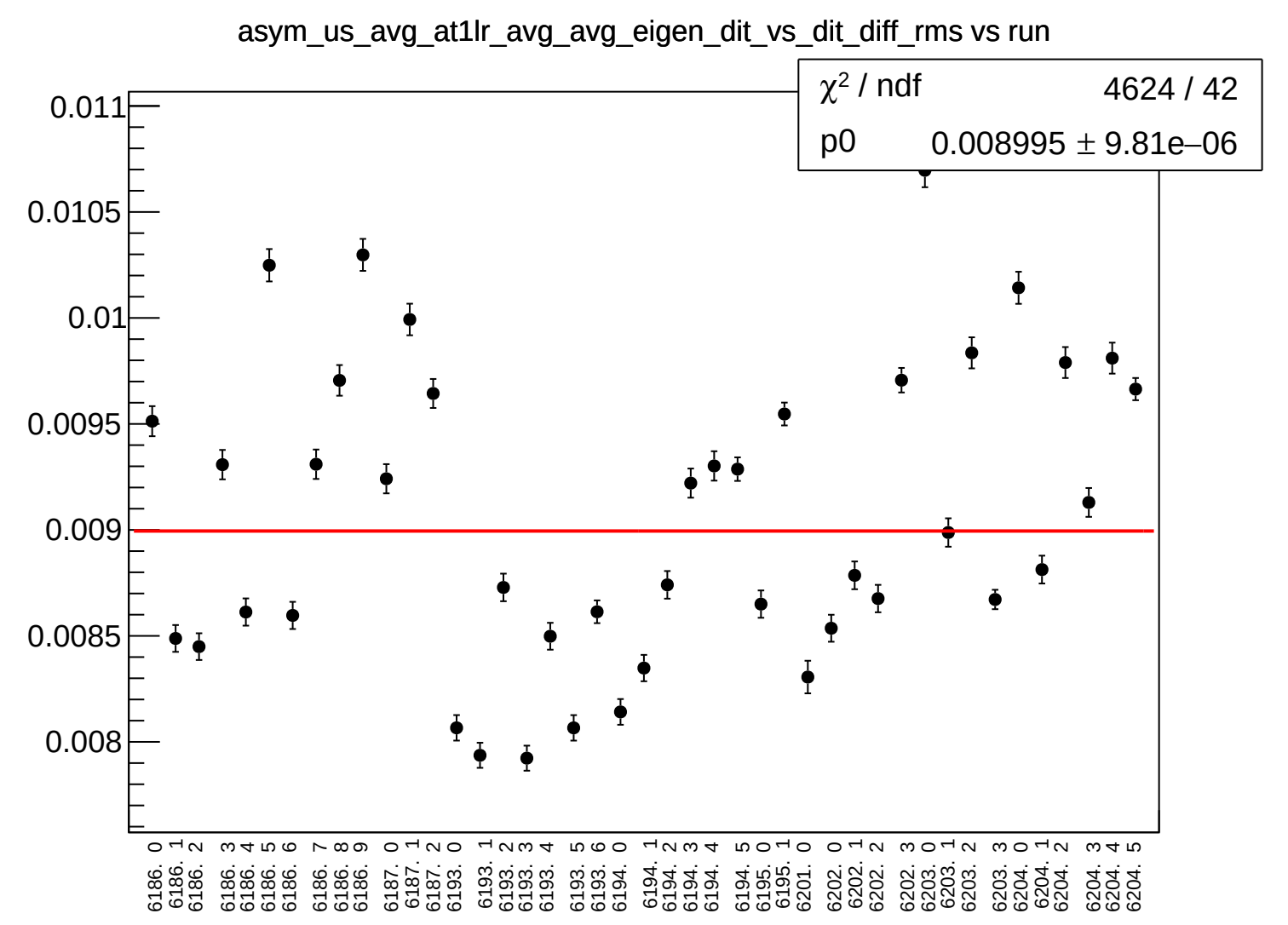

pull1D
Entries 43
Mean 0.05049
Std Dev 1.099

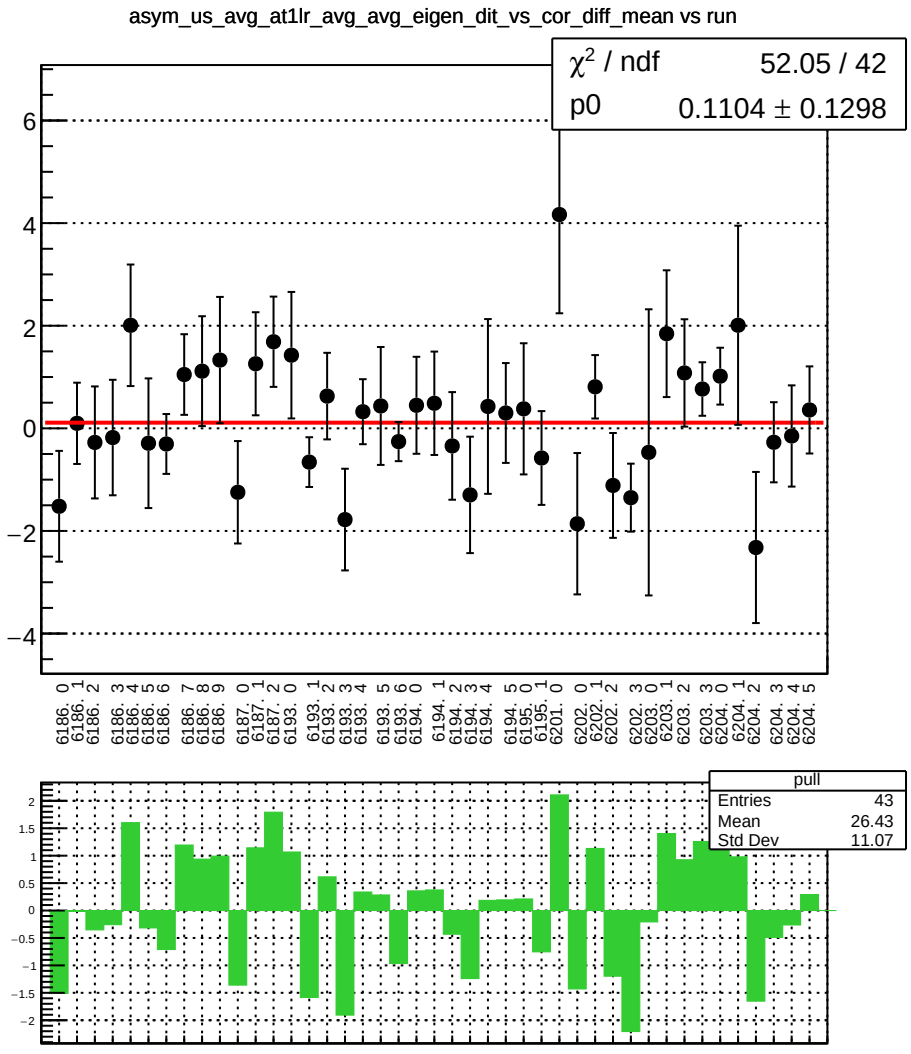

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.952e+04 / 42
p0 79.29 ± 0.09182
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

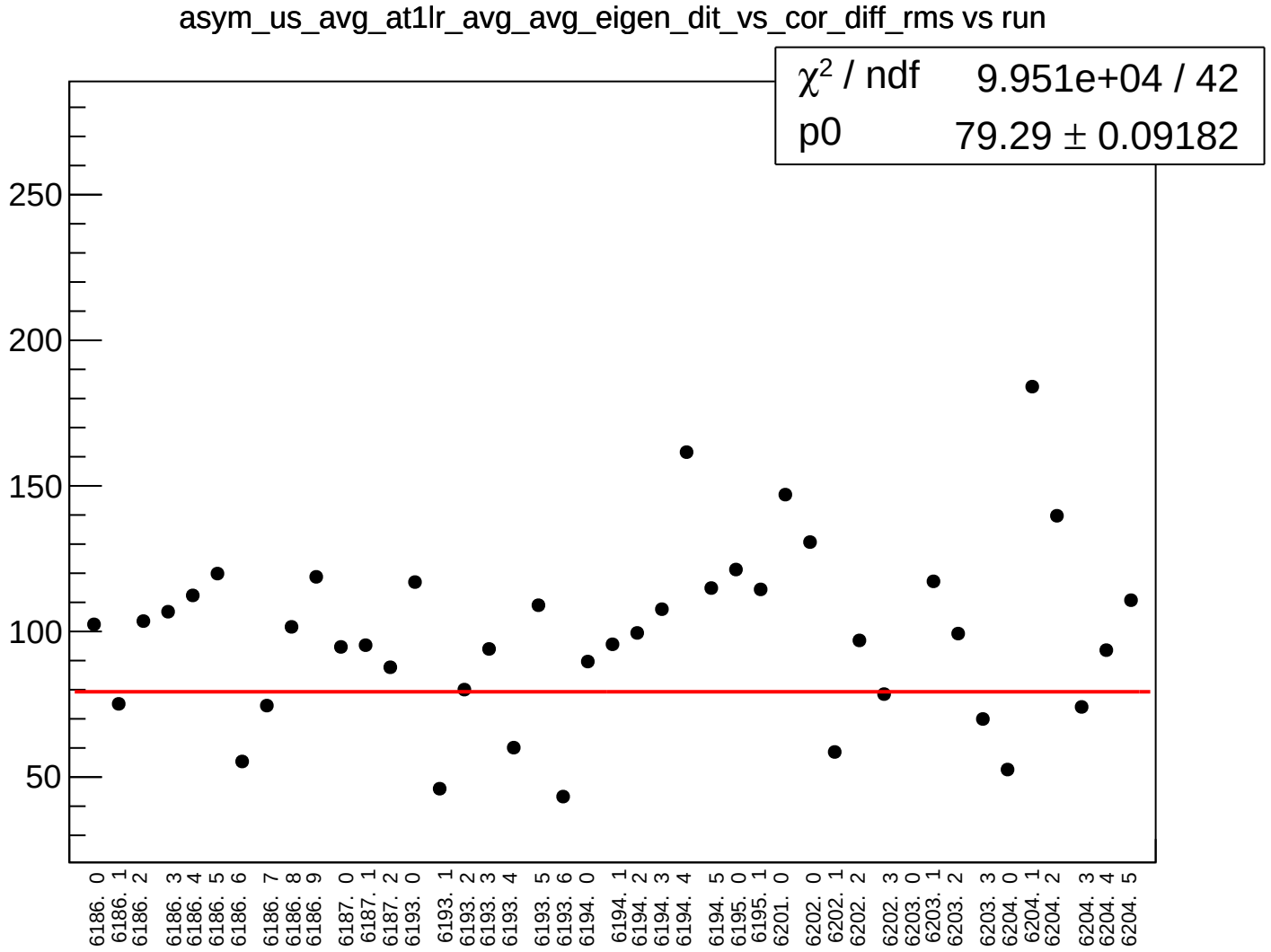

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.05 / 42
p0 0.1104 ± 0.1298
pull
Entries 43
Mean 26.43
Std Dev 11.07
pull1D
Entries 43
Mean 0.05049
Std Dev 1.099

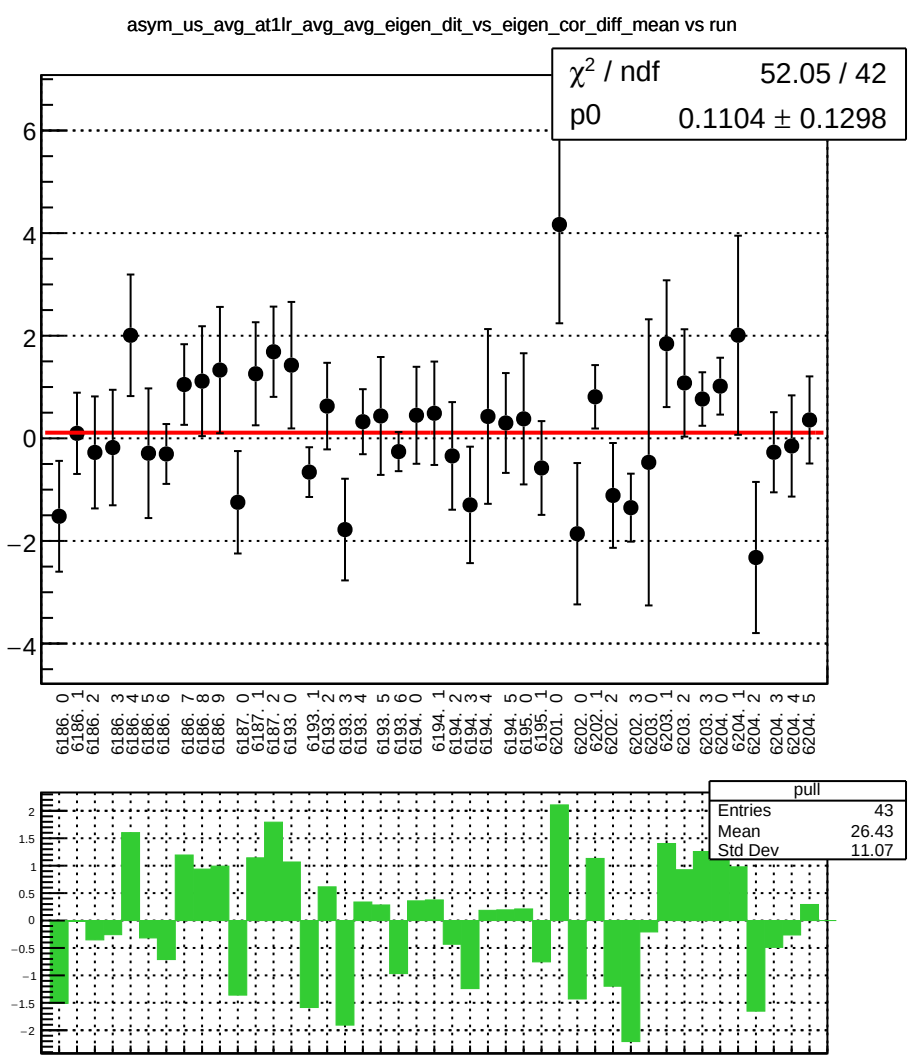

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.952e+04 / 42
p0 79.29 ± 0.09182
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

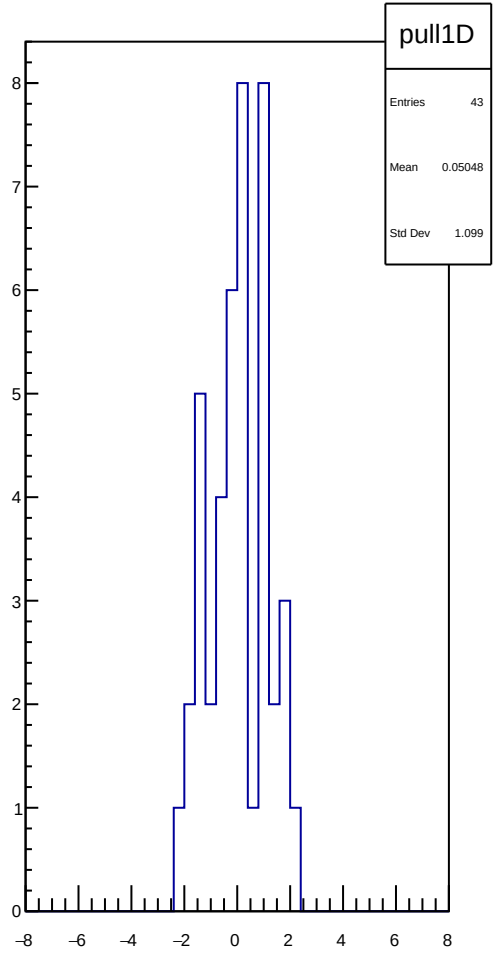

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 49.78 / 42
p0 −7.505e−06 ± 1.387e−05
0.4
0.2
0
−0.2
−0.4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −4.02e+04
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 3.658e−05
Std Dev 1.076
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

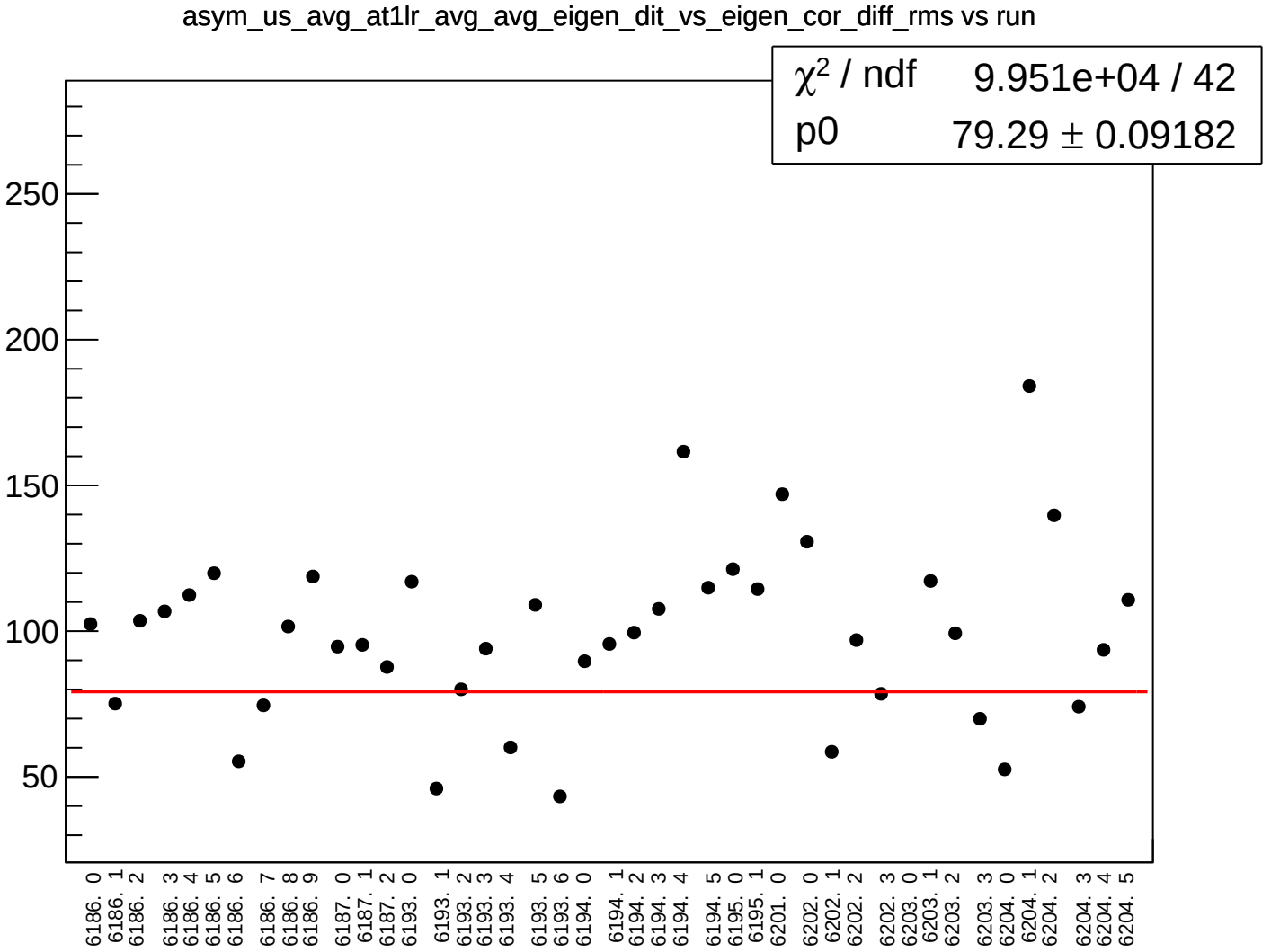

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4624 / 42
p0 0.008995 ± 9.81e–06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

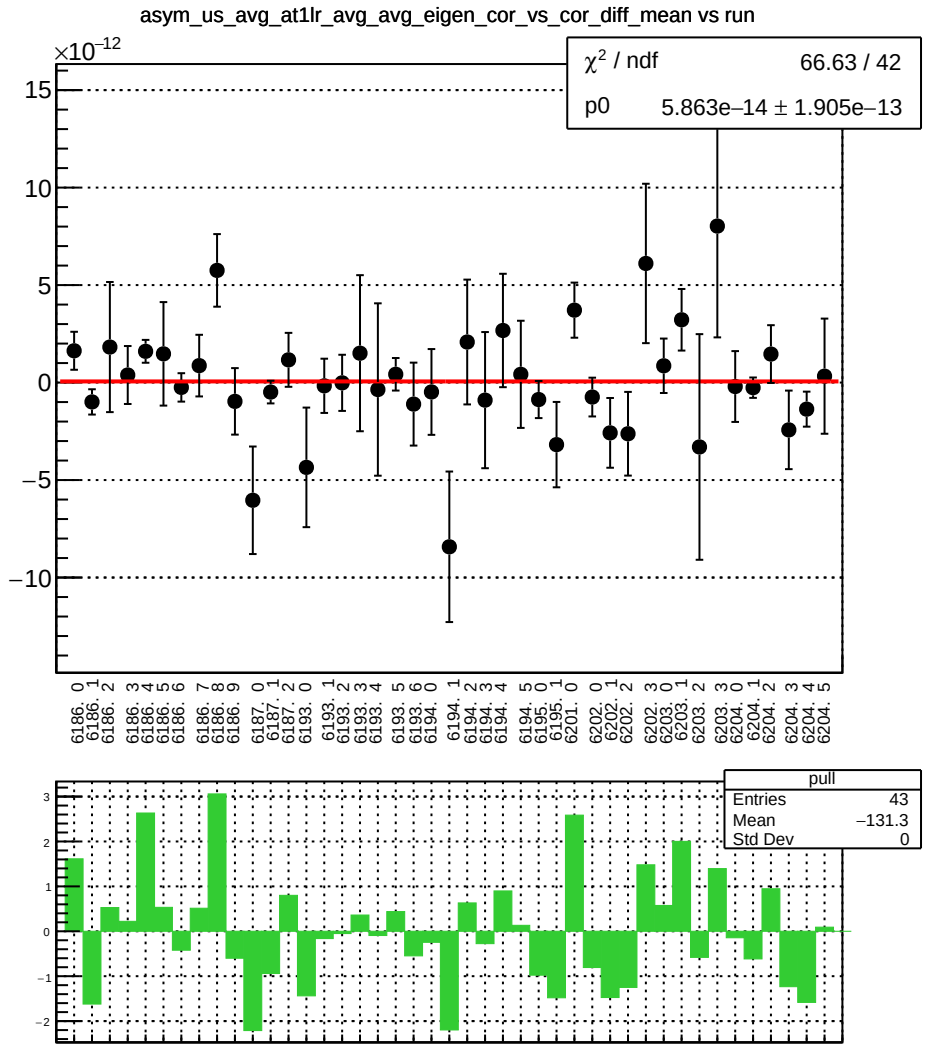

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.05 / 42
p0 0.1104 ± 0.1298
pull
Entries 43
Mean 26.43
Std Dev 11.07
pull1D
Entries 43
Mean 0.05048
Std Dev 1.099

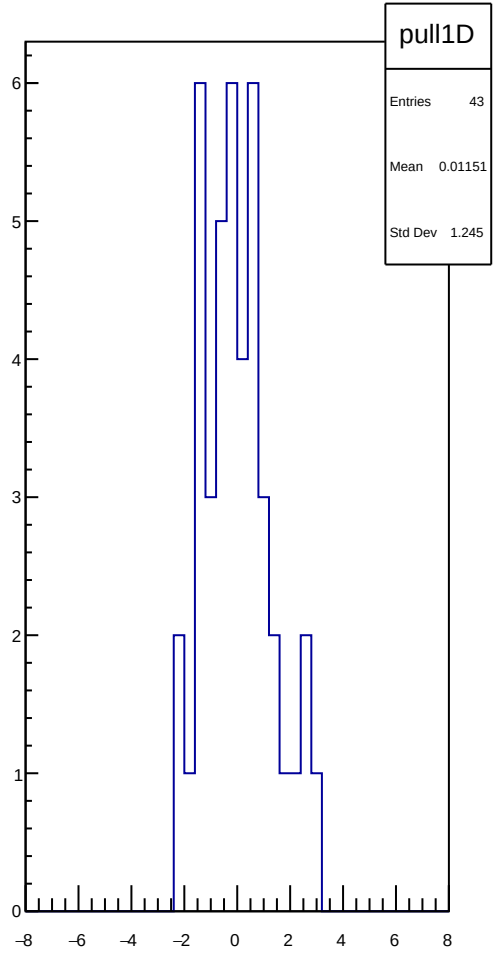

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.951e+04 / 42
p0 79.29 ± 0.09182
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

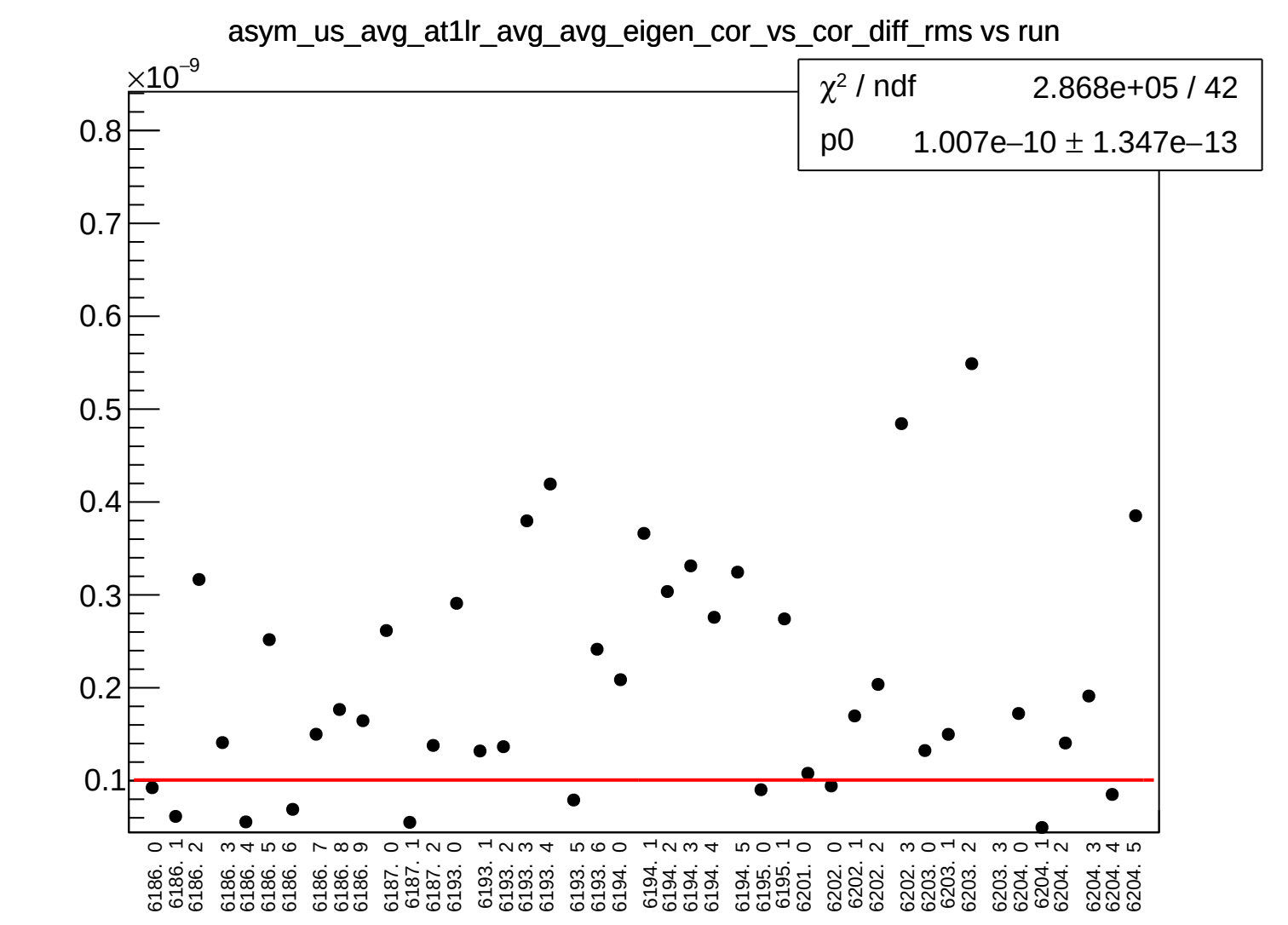

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.05 / 42
p0 0.1104 ± 0.1298
pull
Entries 43
Mean 26.43
Std Dev 11.07

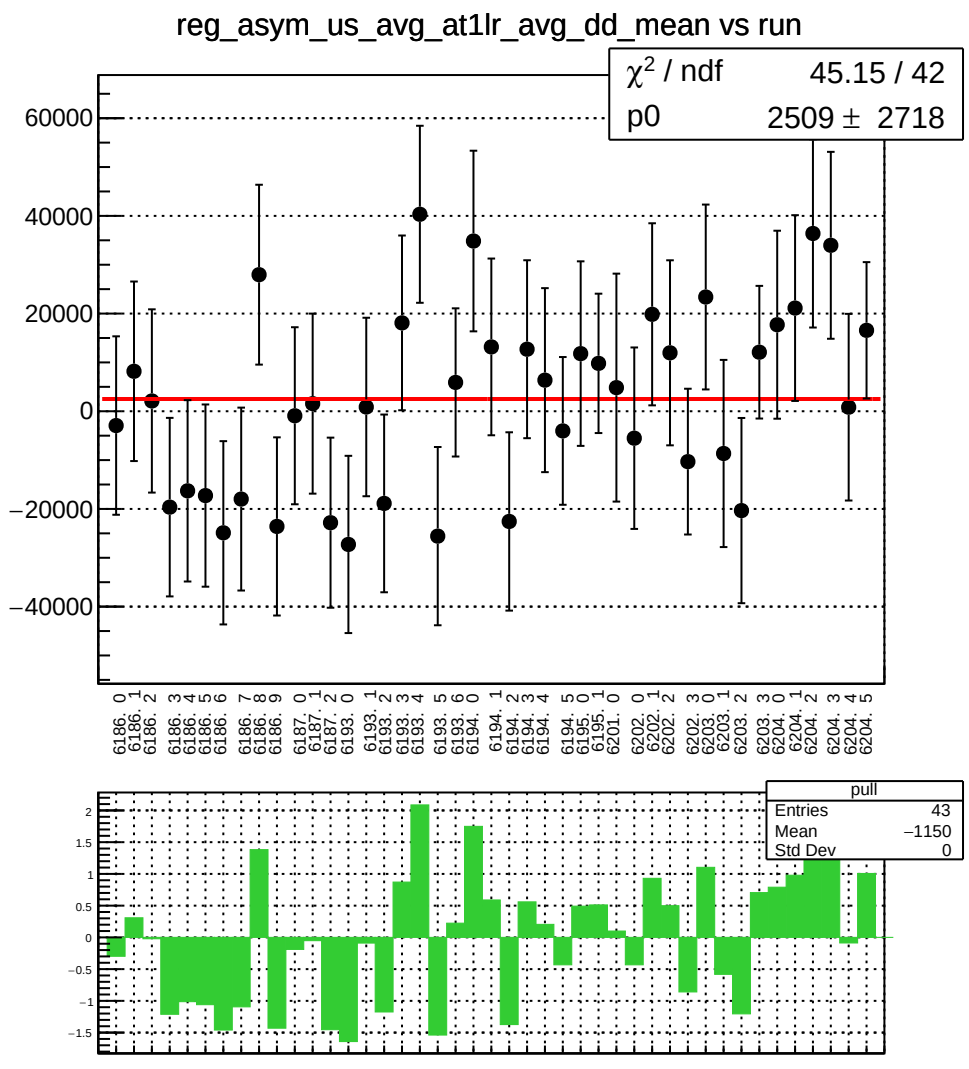

pull1D
Entries 43
Mean 0.05048
Std Dev 1.099

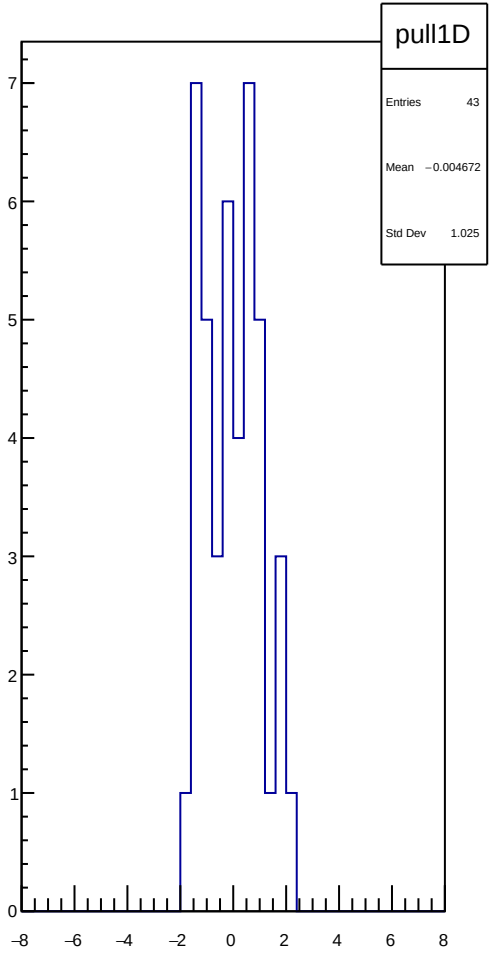

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.951e+04 / 42
p0 79.29 ± 0.09182
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

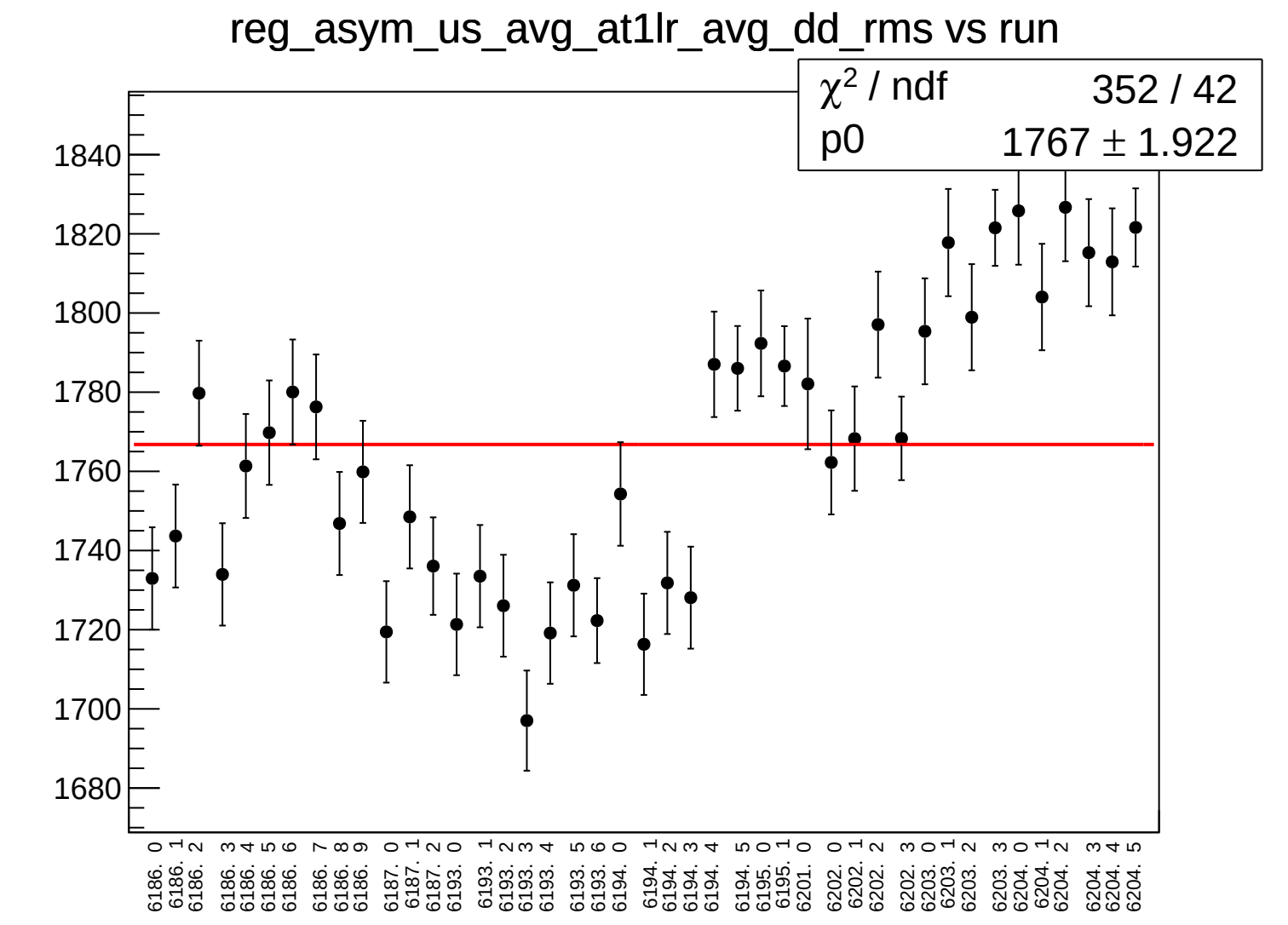

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.63 / 42
p0 5.863e−14 ± 1.905e−13
15
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −131.3
Std Dev 0
3
2
1
0
−1
−2

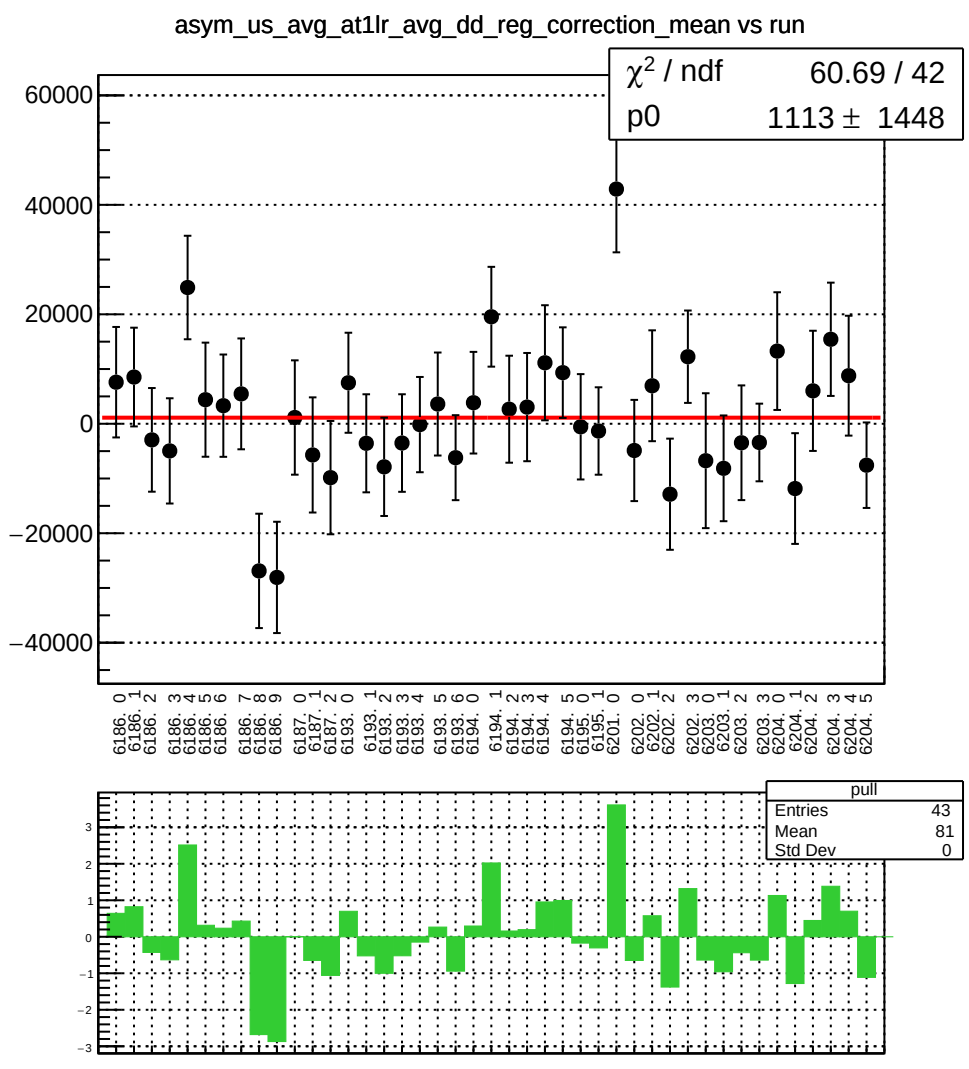

pull1D
Entries 43
Mean 0.01151
Std Dev 1.245
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

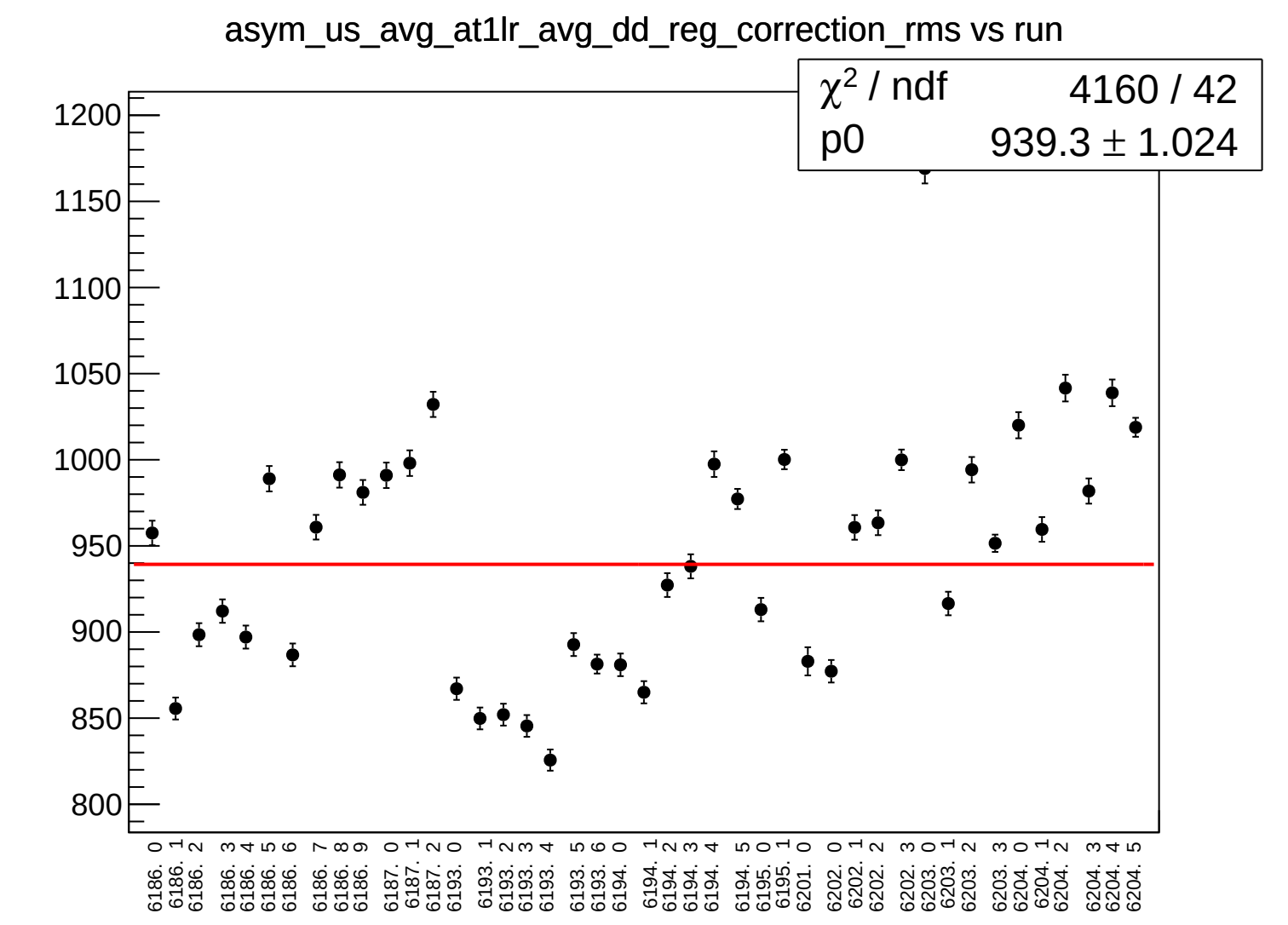

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.868e+05 / 42
p0 1.007e−10 ± 1.347e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 45.15 / 42
p0 2509 ± 2718
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1150
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 43
Mean −0.004672
Std Dev 1.025
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 352 / 42
p0 1767 ± 1.922
1840
1820
1800
1780
1760
1740
1720
1700
1680
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 60.69 / 42
p0 1113 ± 1448
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 81
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01632
Std Dev 1.188
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 4160 / 42
p0 939.3 ± 1.024
1200
1150
1100
1050
1000
950
900
850
800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
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6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
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6204. 2
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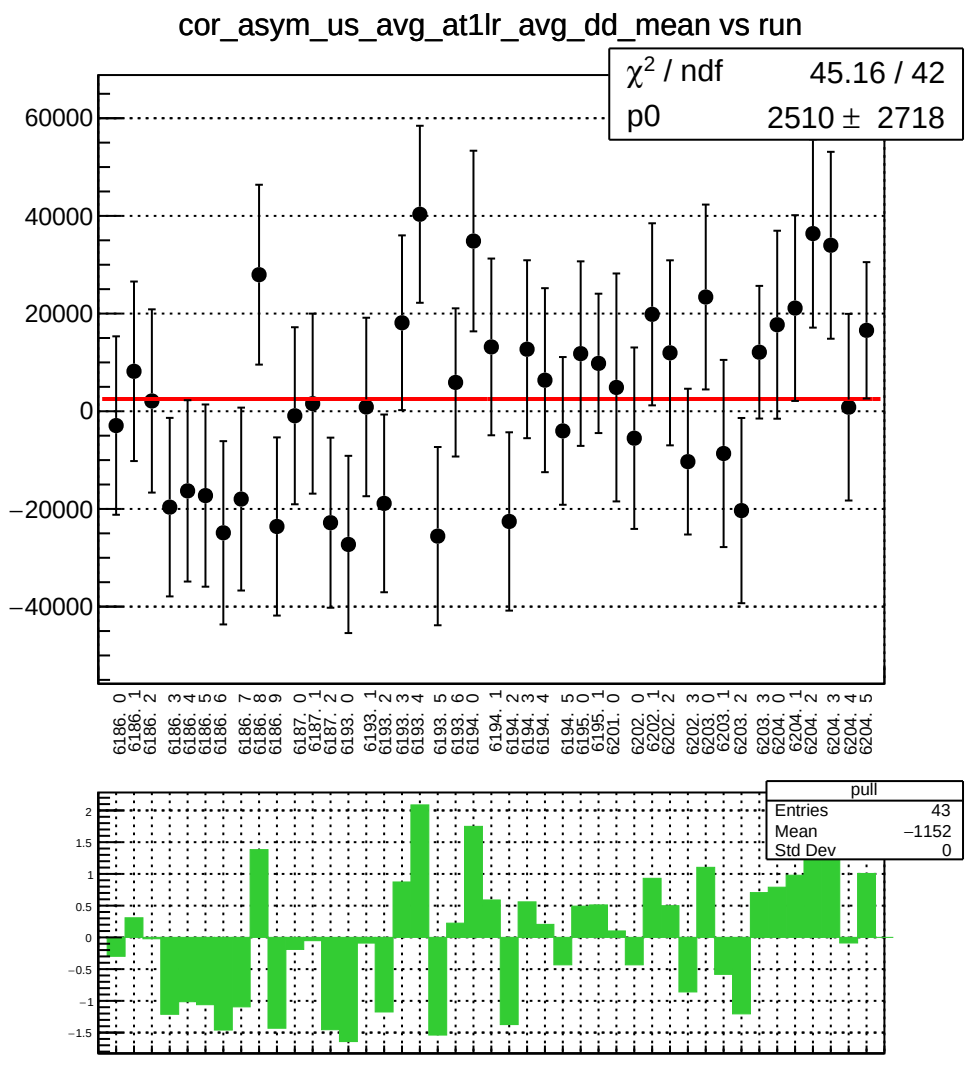
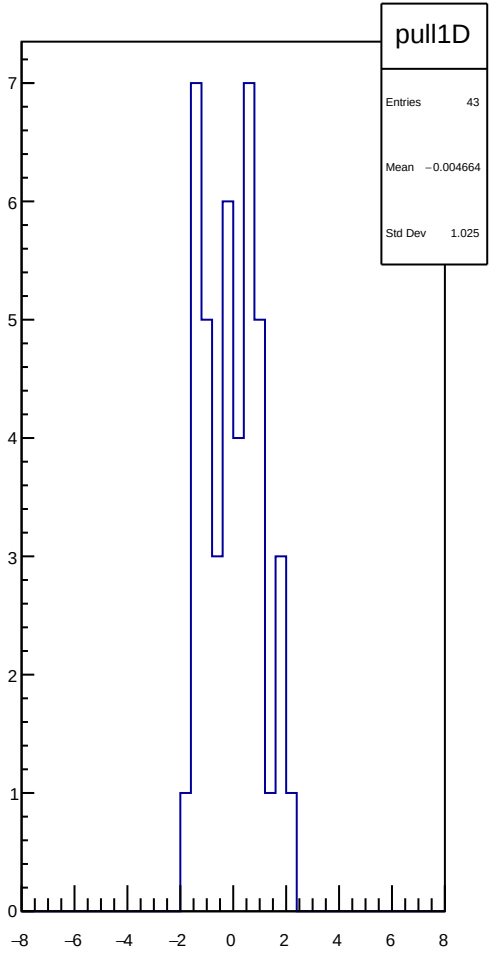
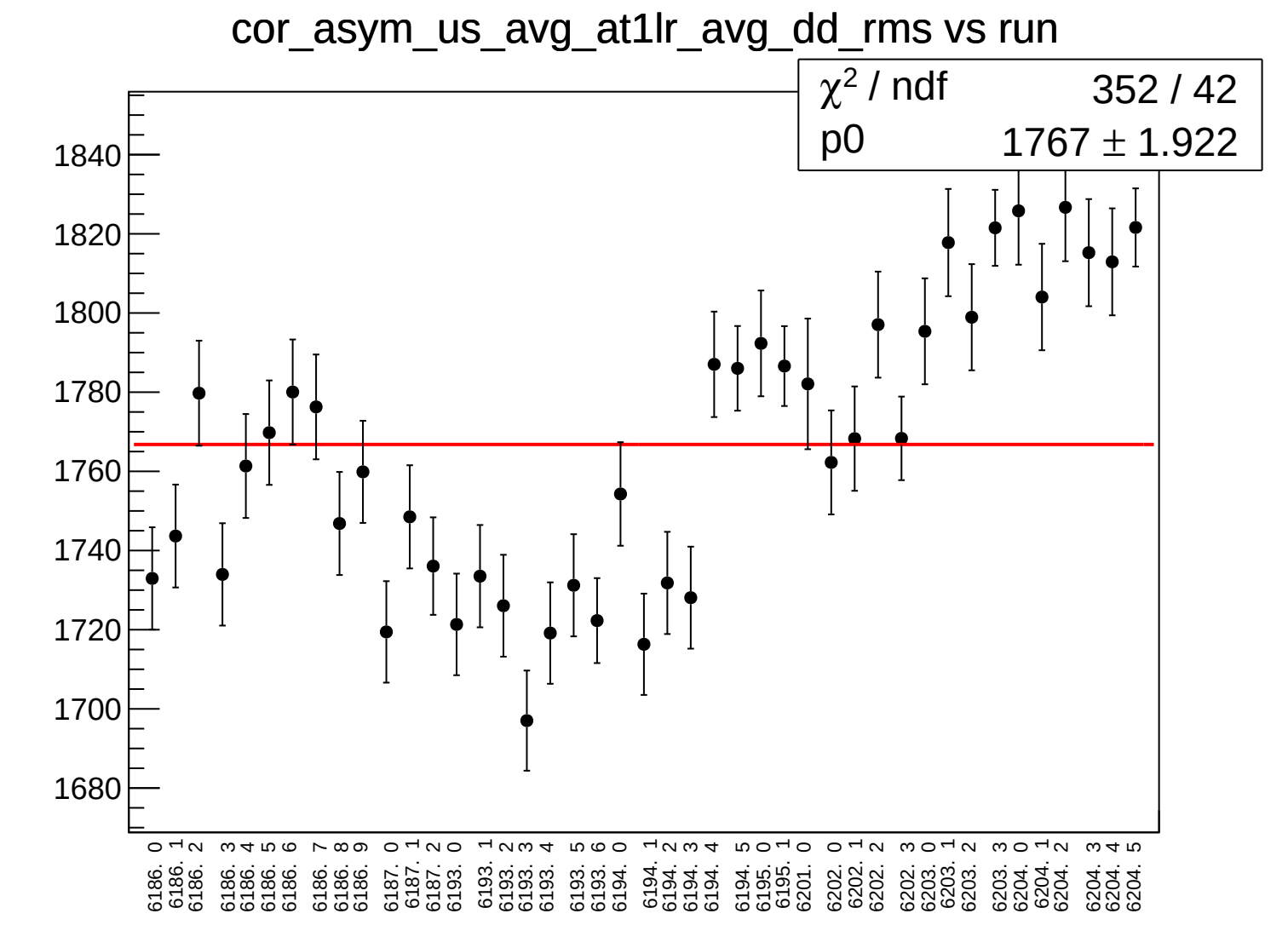
6204. 4
6204. 5


cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 45.16 / 42
p0 2510 ± 2718
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1152
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 43
Mean −0.004664
Std Dev 1.025
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 352 / 42
p0 1767 ± 1.922
1840
1820
1800
1780
1760
1740
1720
1700
1680
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
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6194. 3
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6195. 0
6195. 1
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6202. 1
6202. 2
6202. 3
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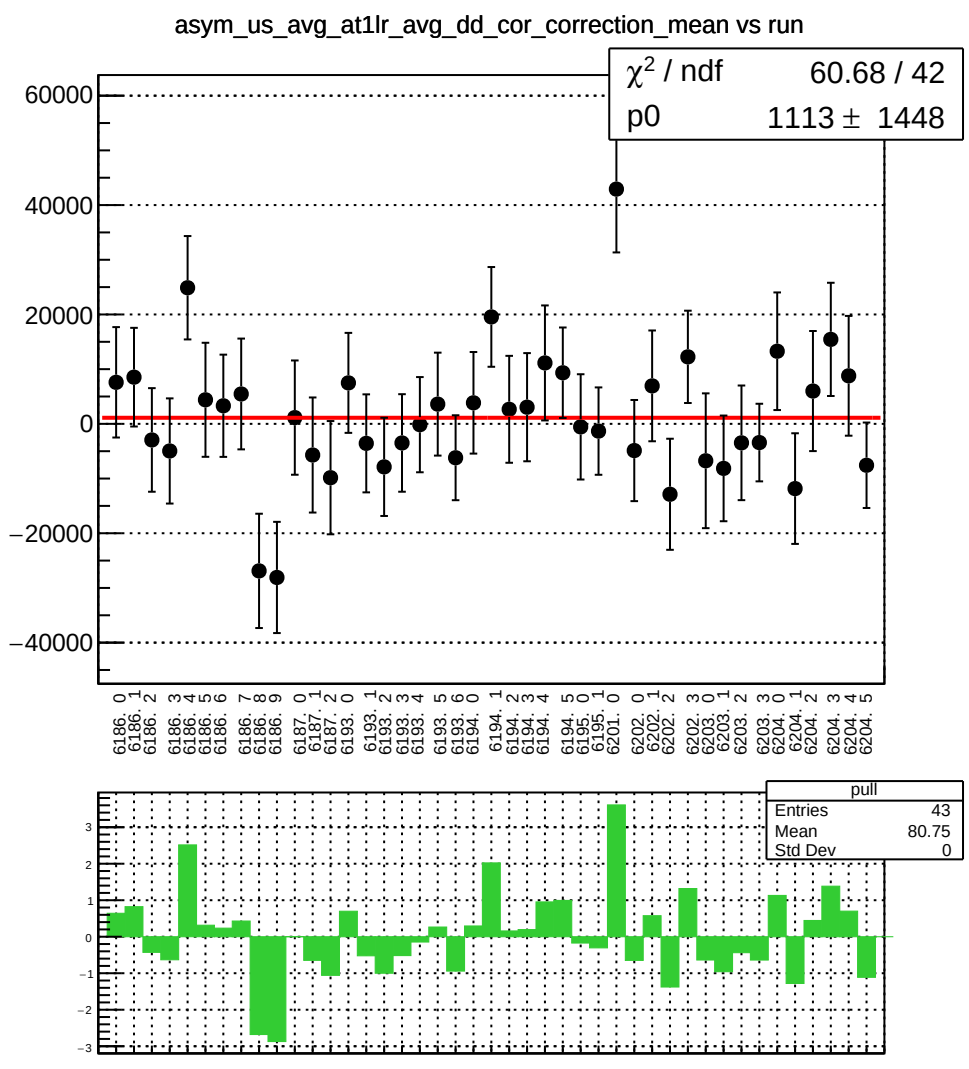
asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 60.68 / 42
p0 1113 ± 1448
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
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6204. 1
6204. 2
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6204. 5
pull
Entries 43
Mean 80.75
Std Dev 0
3
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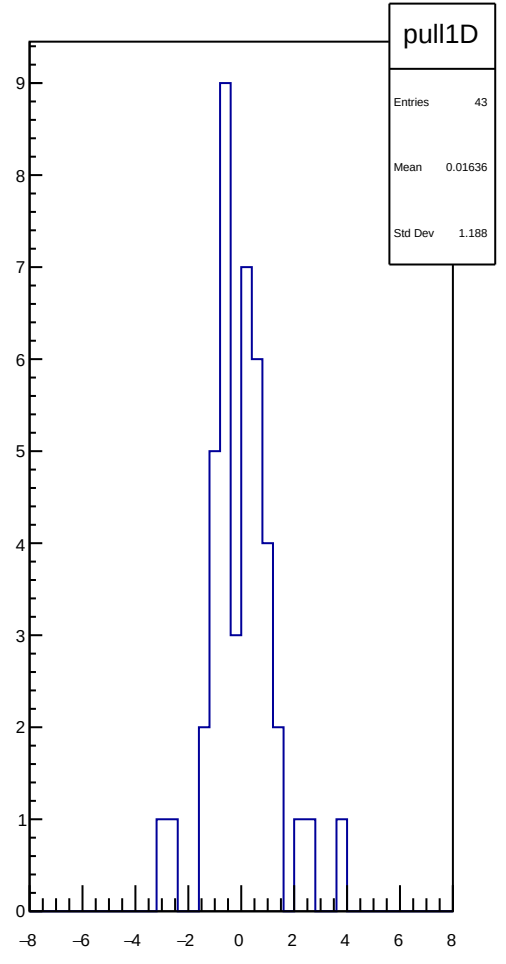
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.01636
Std Dev 1.188
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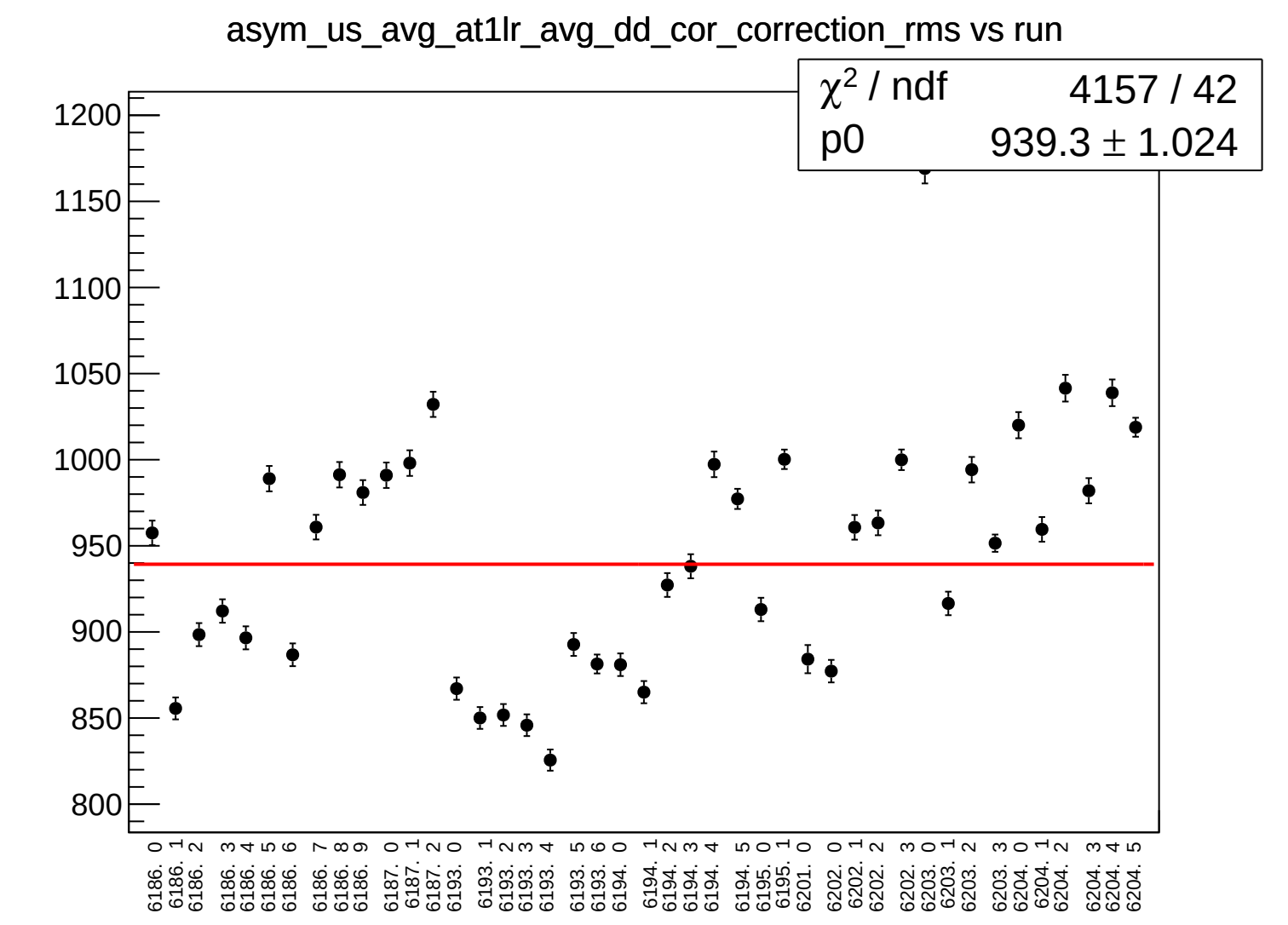
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 4157 / 42
p0 939.3 ± 1.024
1200
1150
1100
1050
1000
950
900
850
800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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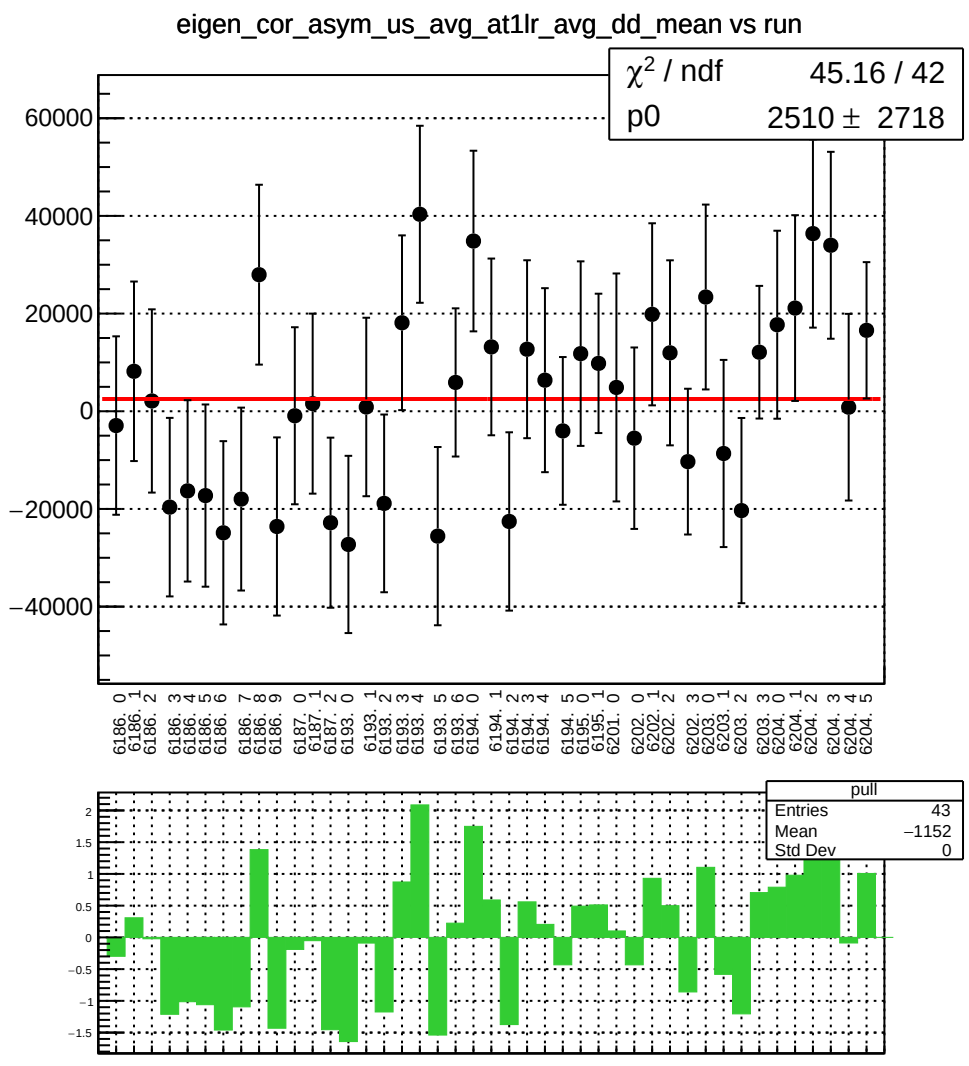
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 45.16 / 42
p0 2510 ± 2718
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
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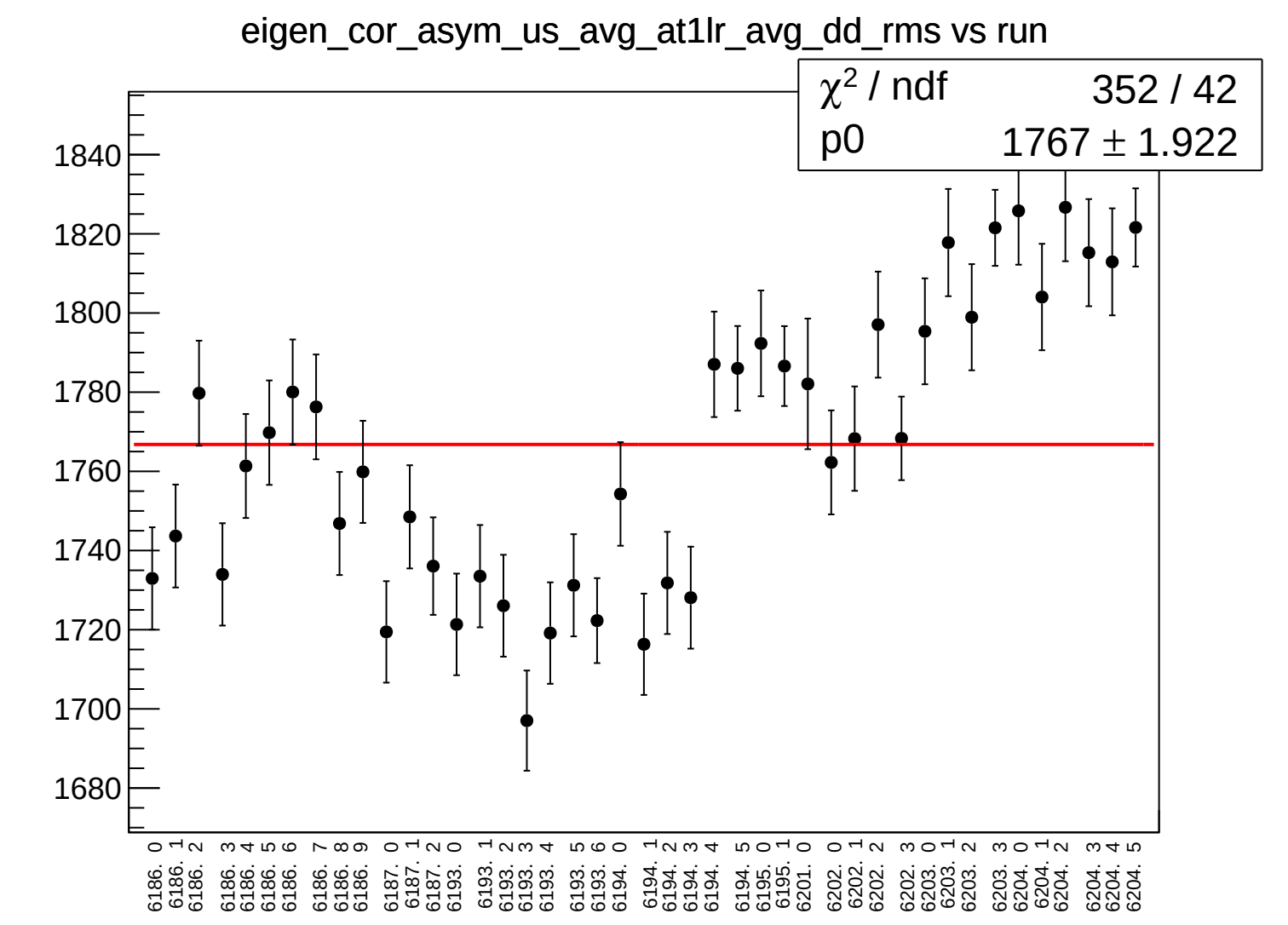
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1152
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.004664
Std Dev 1.025
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 352 / 42
p0 1767 ± 1.922
1840
1820
1800
1780
1760
1740
1720
1700
1680
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
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6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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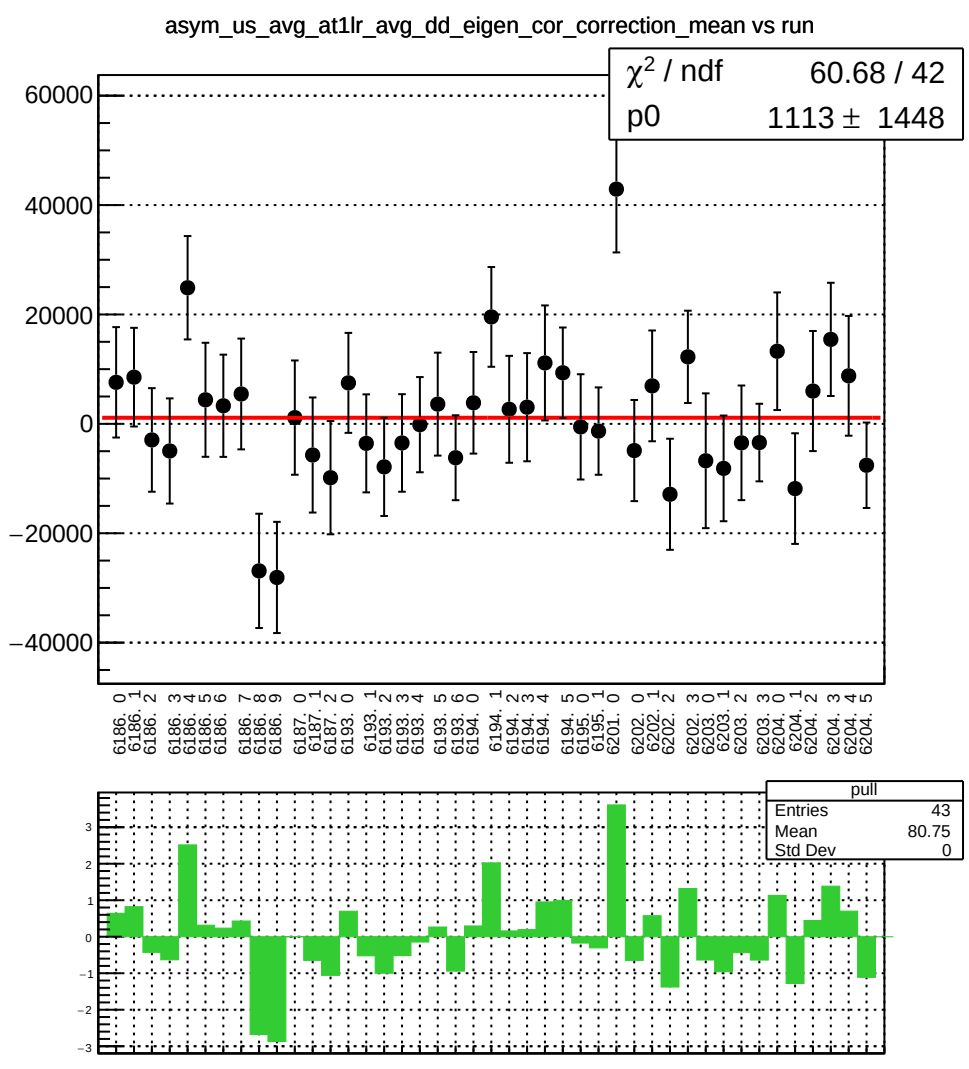
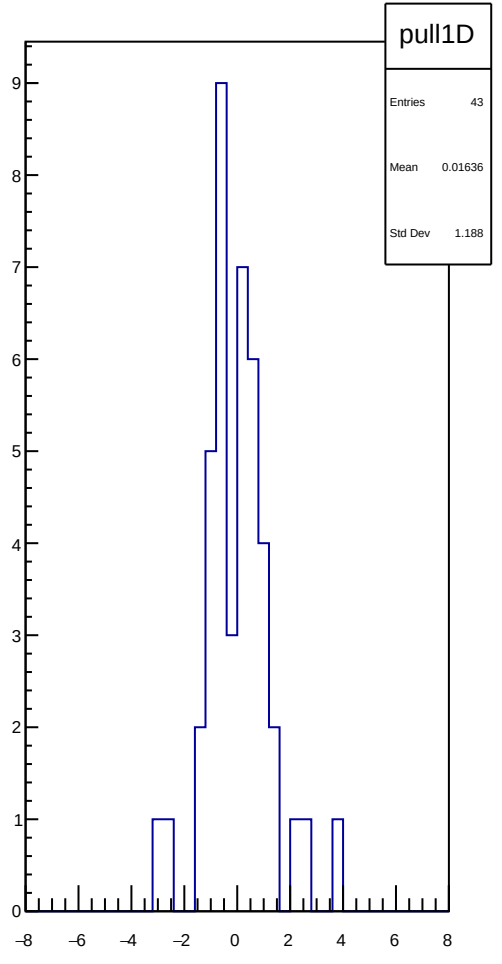
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 60.68 / 42
p0 1113 ± 1448
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 80.75
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.01636
Std Dev 1.188
9
8
7
6
5
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3
2
1
0
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−4
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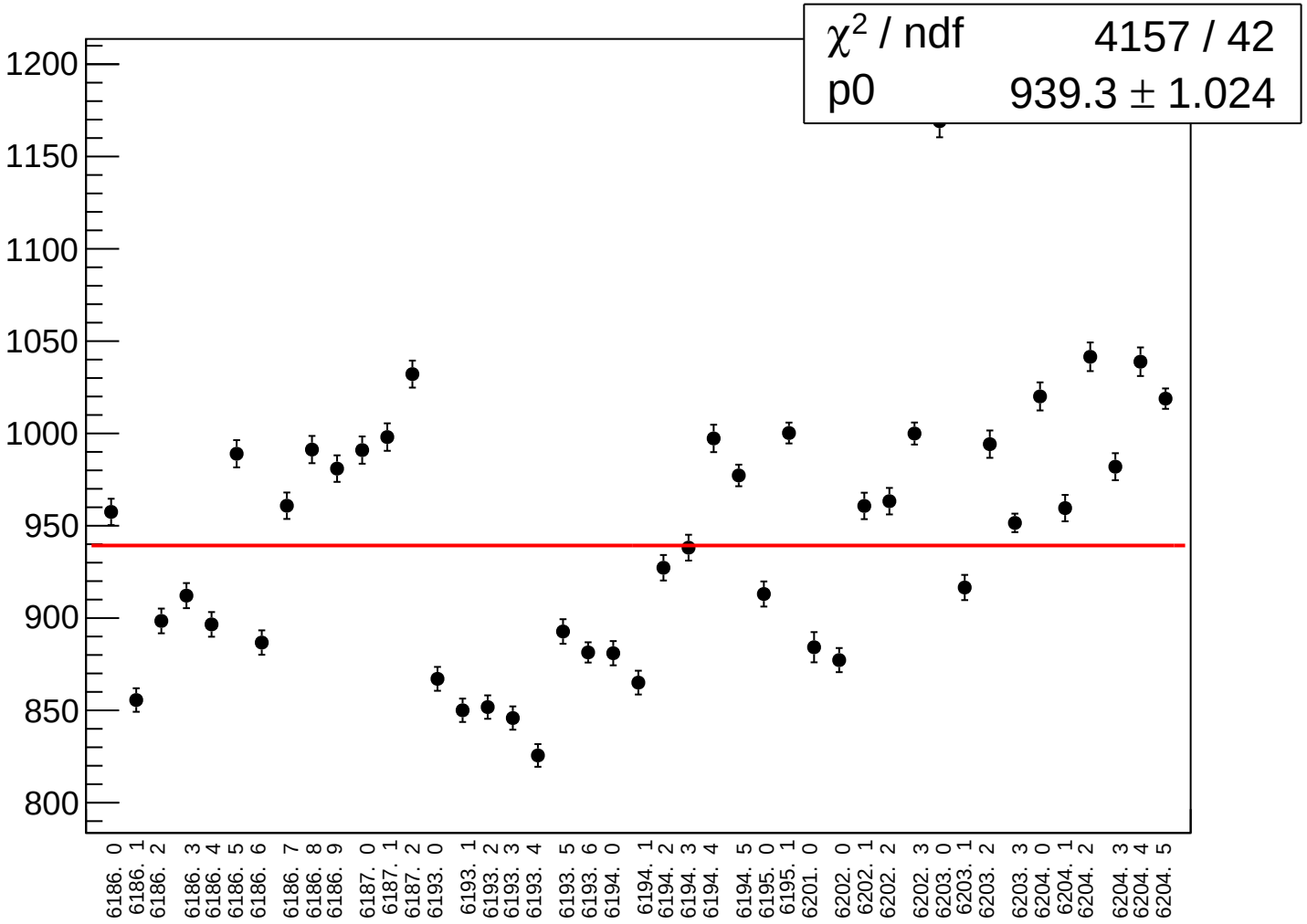
2
4
6
8


asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4157 / 42
p0 939.3 ± 1.024
1200
1150
1100
1050
1000
950
900
850
800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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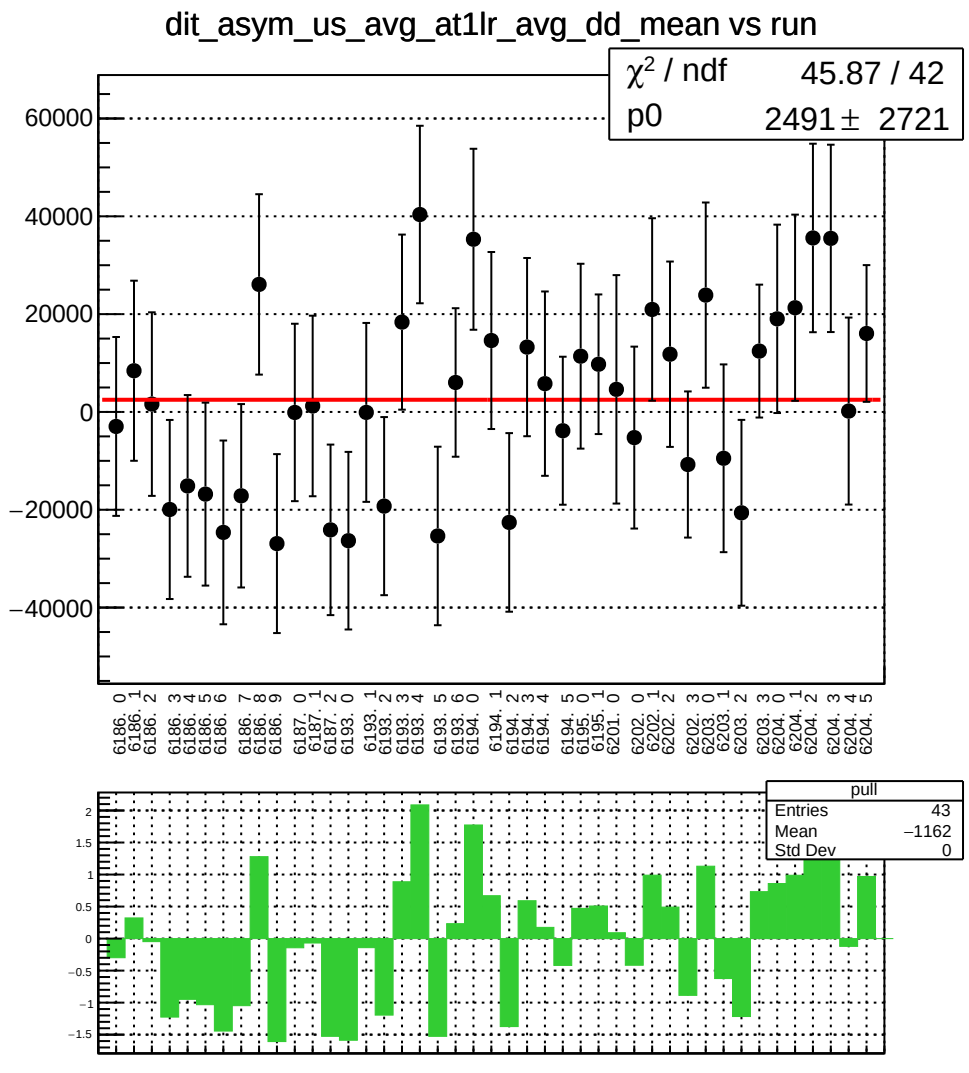
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 45.87 / 42
p0 2491 ± 2721
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1162
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.004672
Std Dev 1.033
7
6
5
4
3
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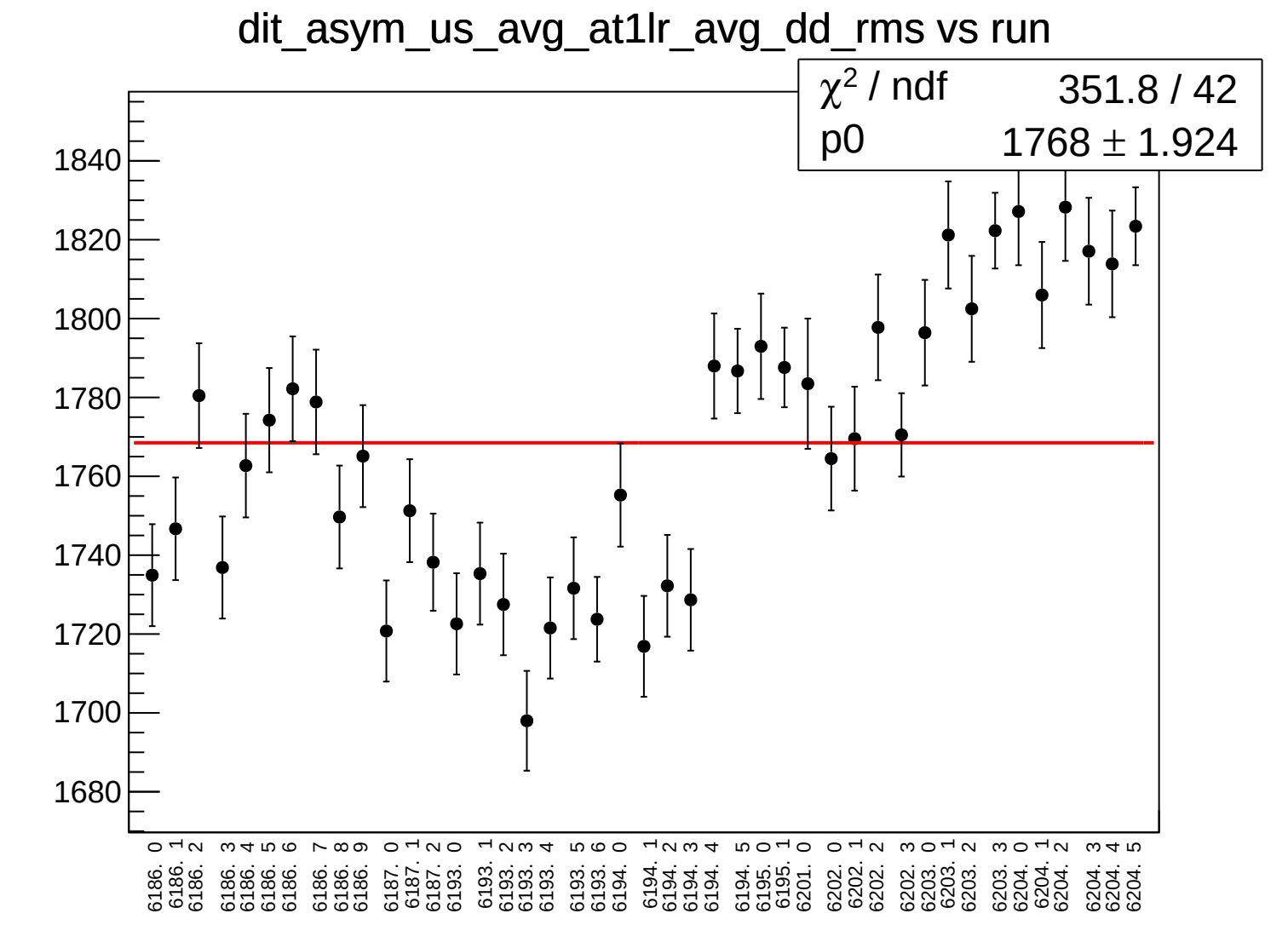
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 351.8 / 42
p0 1768 ± 1.924
1840
1820
1800
1780
1760
1740
1720
1700
1680
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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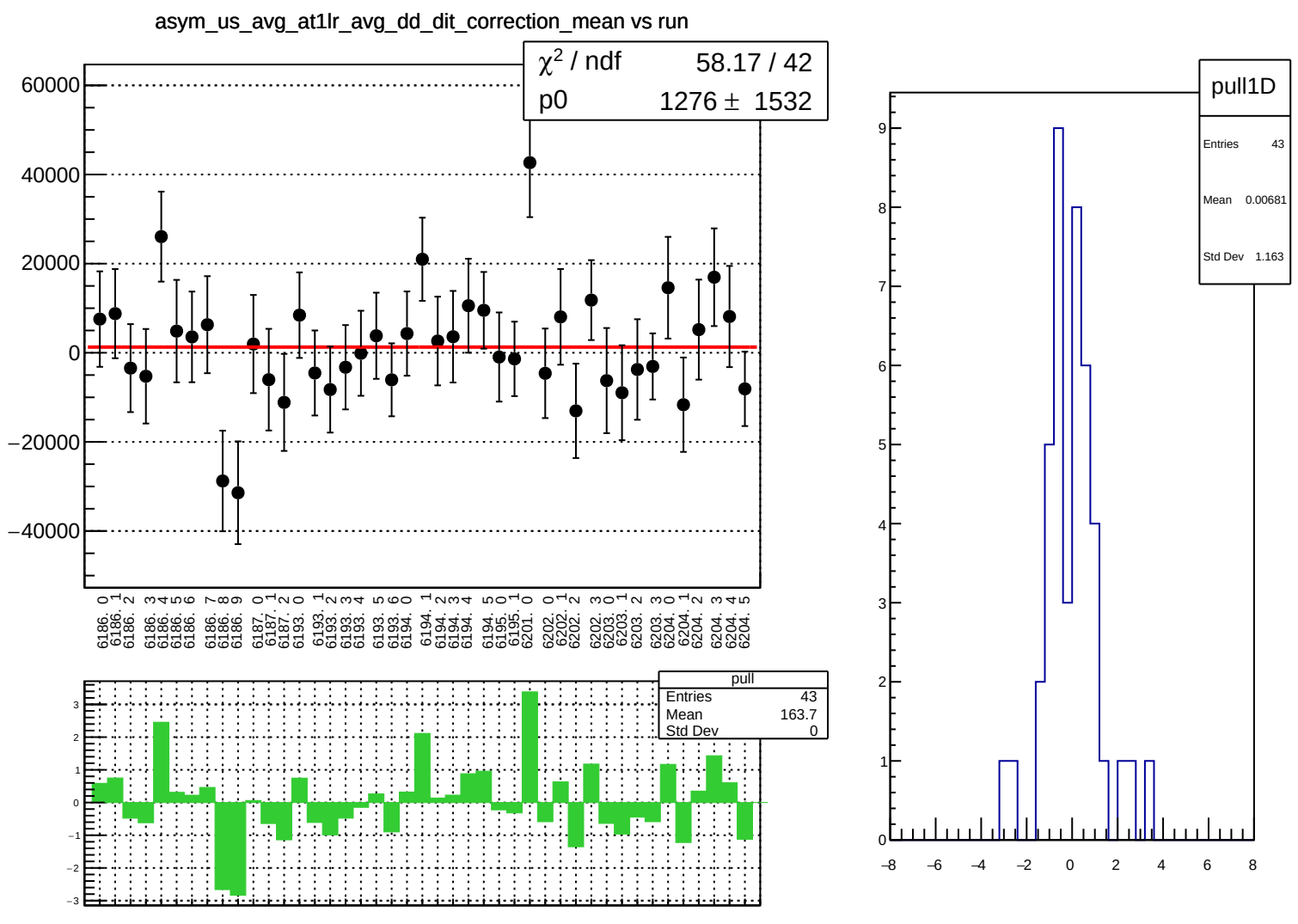
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 58.17 / 42
p0 1276 ± 1532
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
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6186. 7
6186. 8
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6187. 0
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6187. 2
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6193. 1
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6193. 4
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6194. 2
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6194. 4
6194. 5
6195. 0
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6202. 1
6202. 2
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6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 163.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.00681
Std Dev 1.163
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8
7
6
5
4
3
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0
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−6
−4
−2
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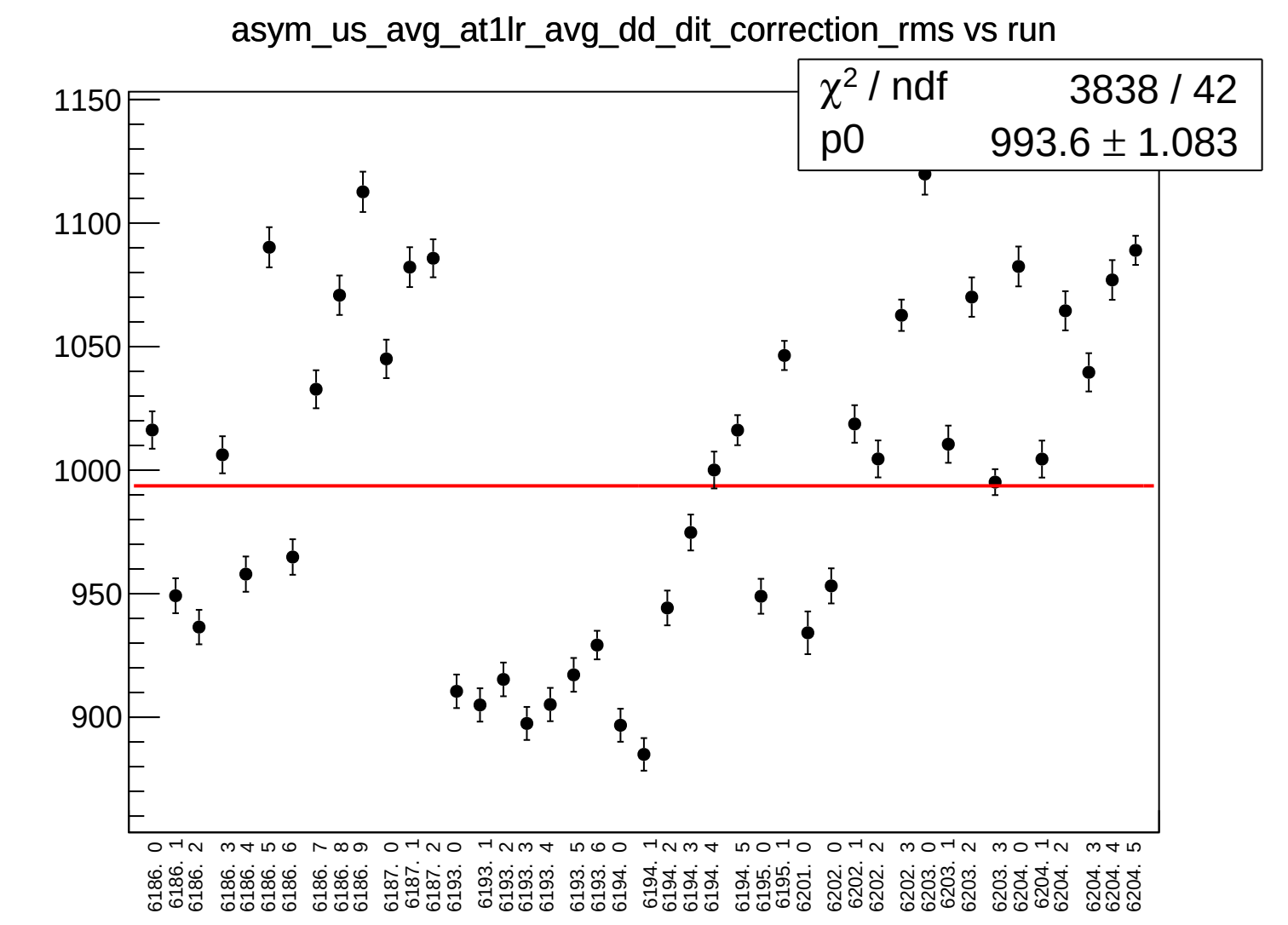
2
4
6
8


asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3838 / 42
p0 993.6 ± 1.083
1150
1100
1050
1000
950
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
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6202. 3
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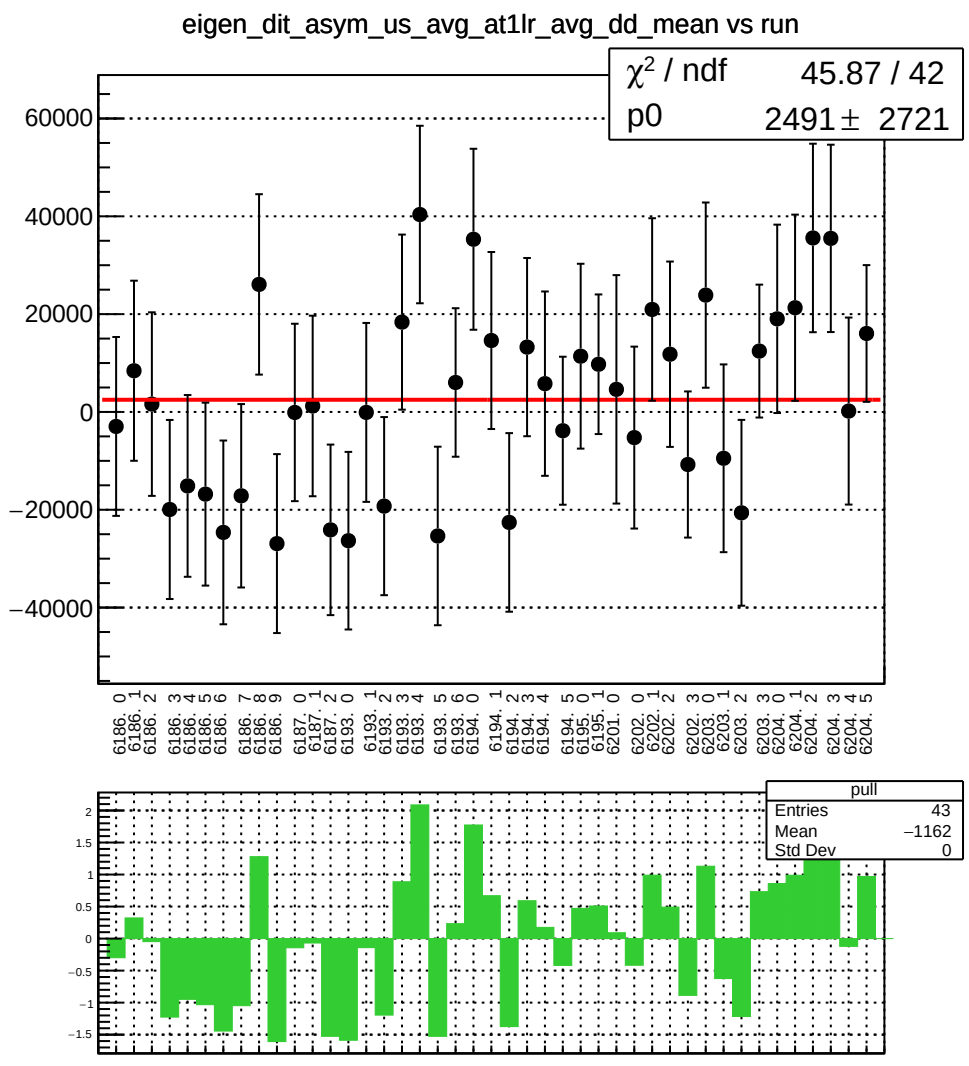
6204. 4
6204. 5


eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 45.87 / 42
p0 2491 ± 2721
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
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6194. 4
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6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
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6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1162
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.004672
Std Dev 1.033
7
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−8
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−4
−2
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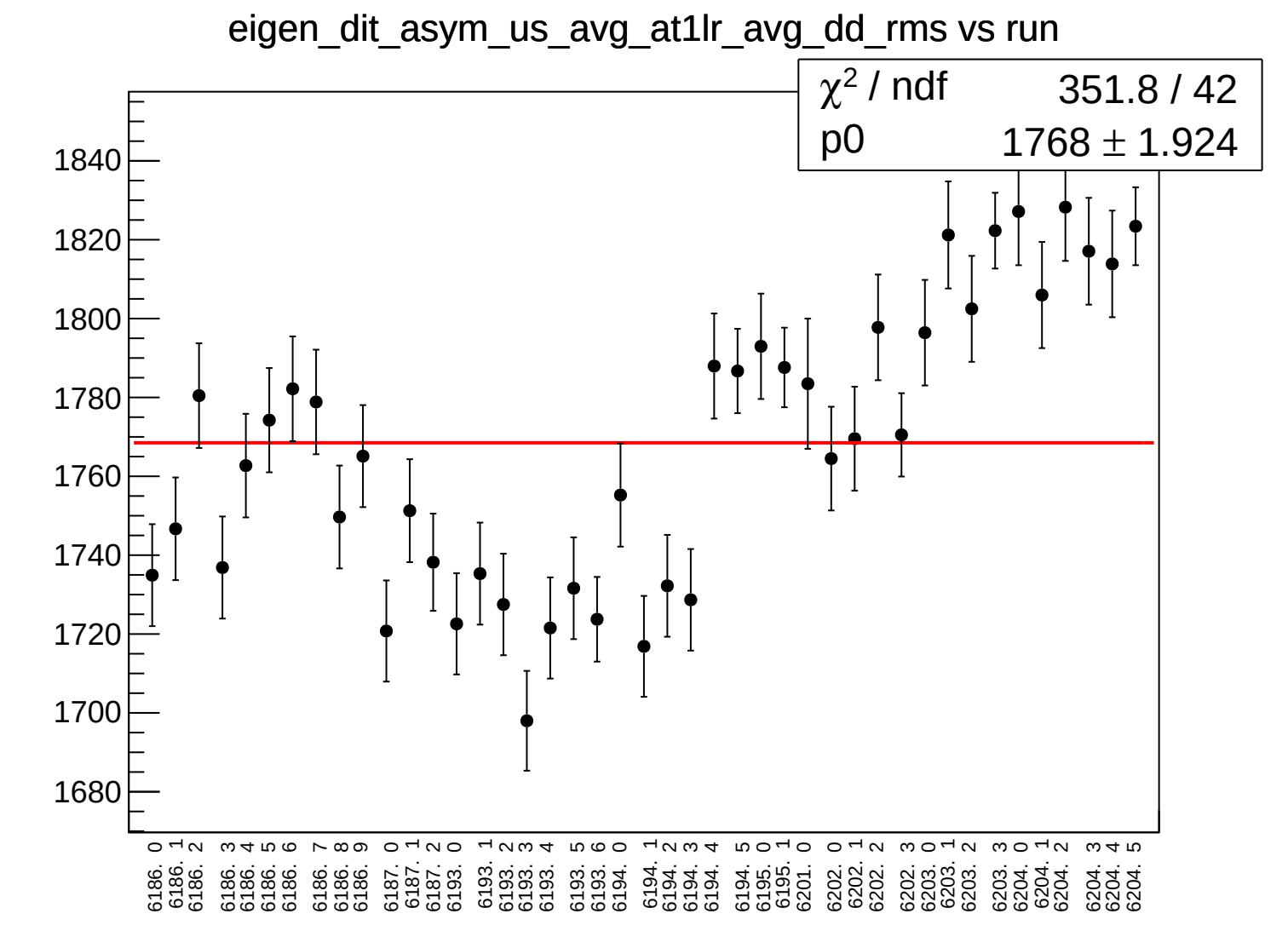
2
4
6
8


eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 351.8 / 42
p0 1768 ± 1.924
1840
1820
1800
1780
1760
1740
1720
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6186. 0
6186. 1
6186. 2
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6186. 6
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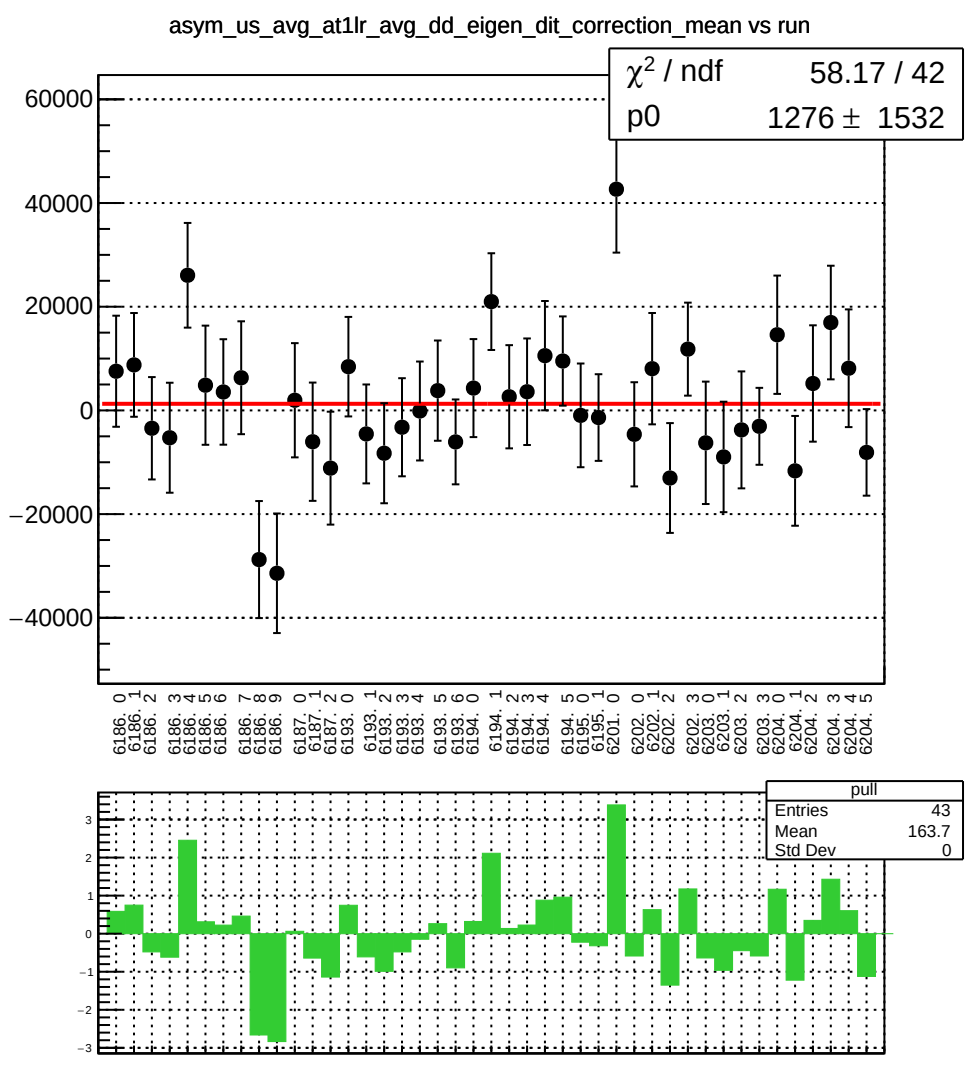
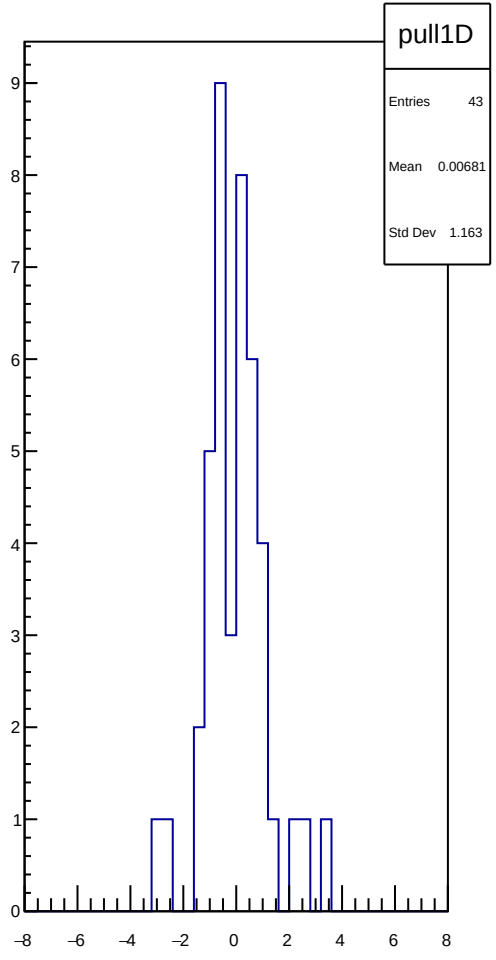
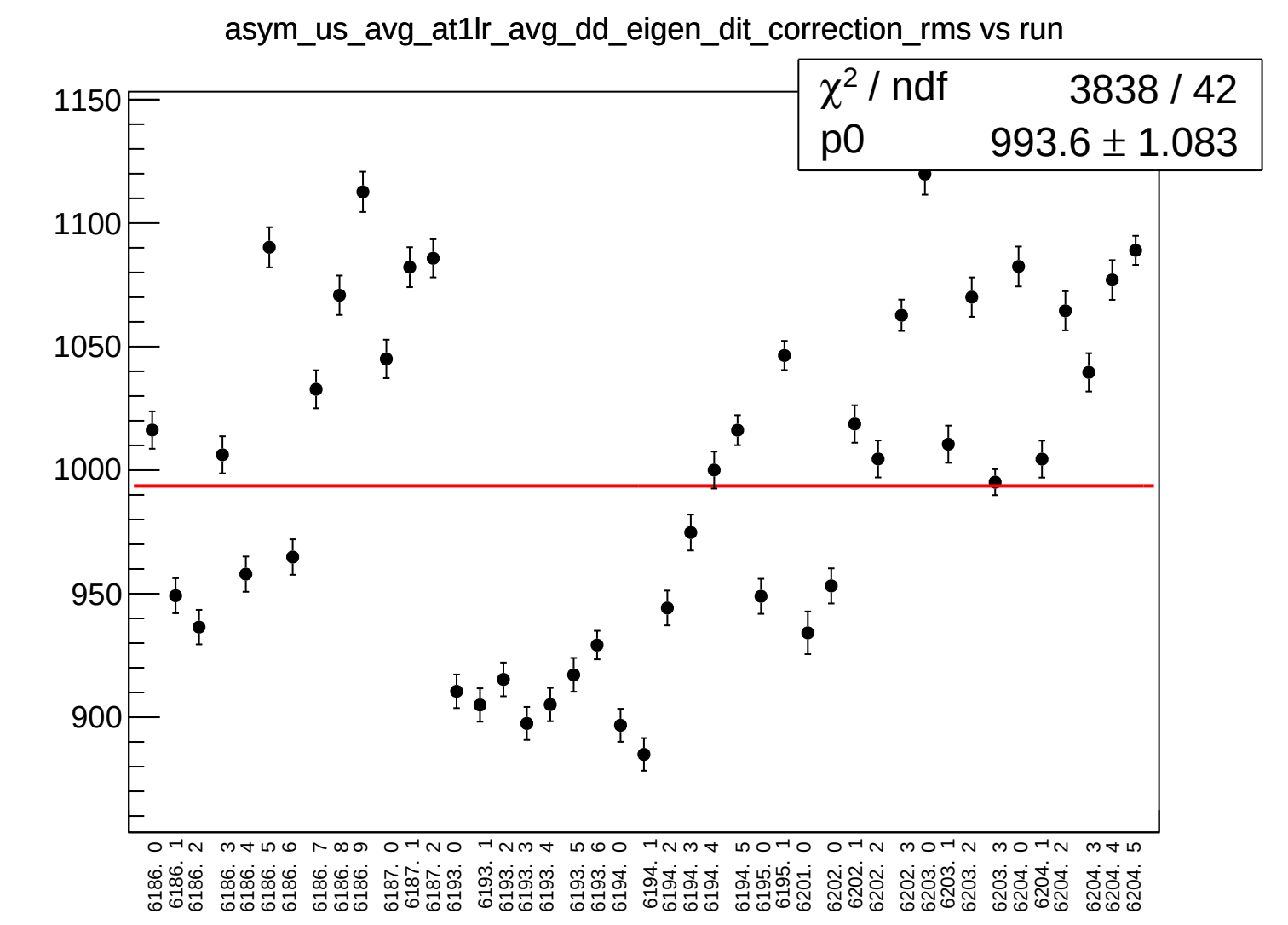
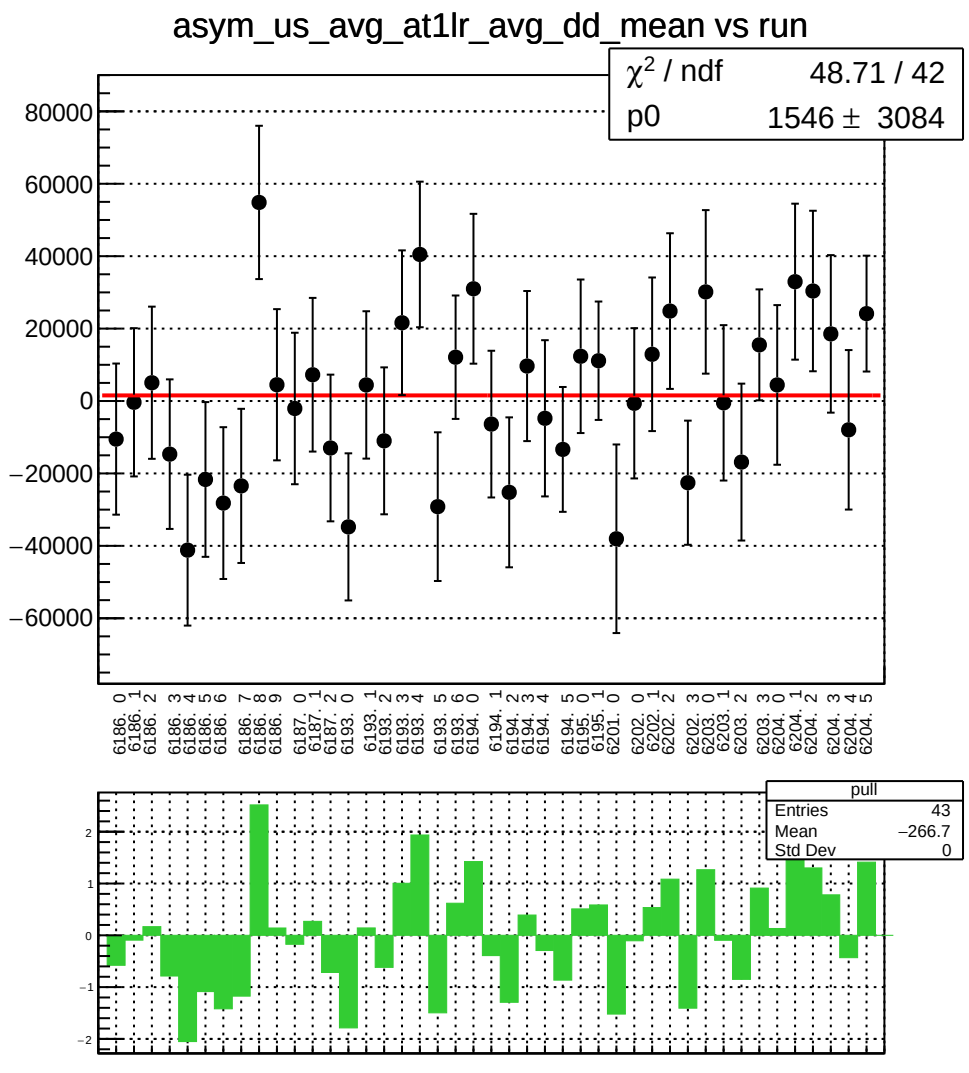
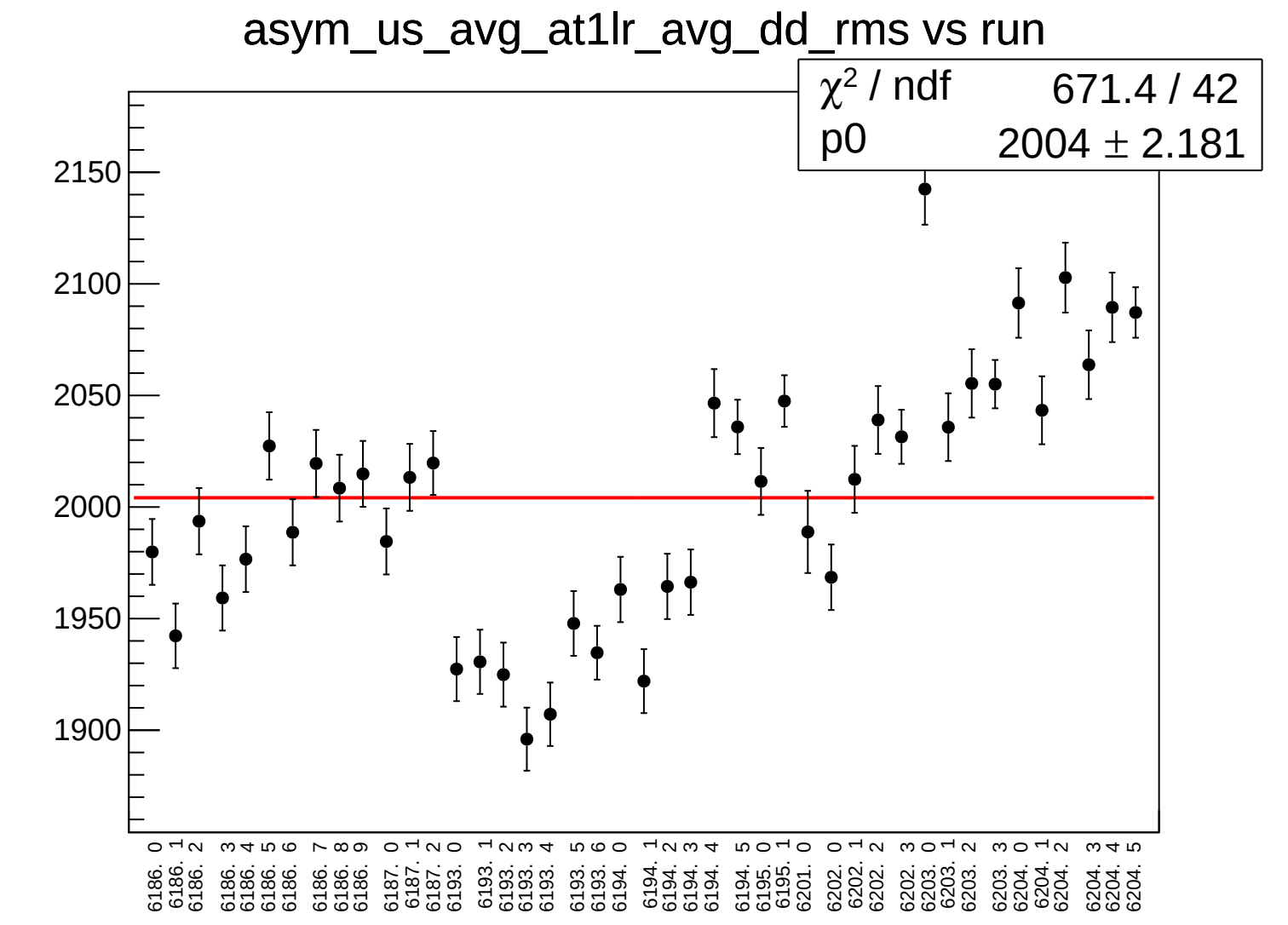
6204. 3
6204. 4
6204. 5

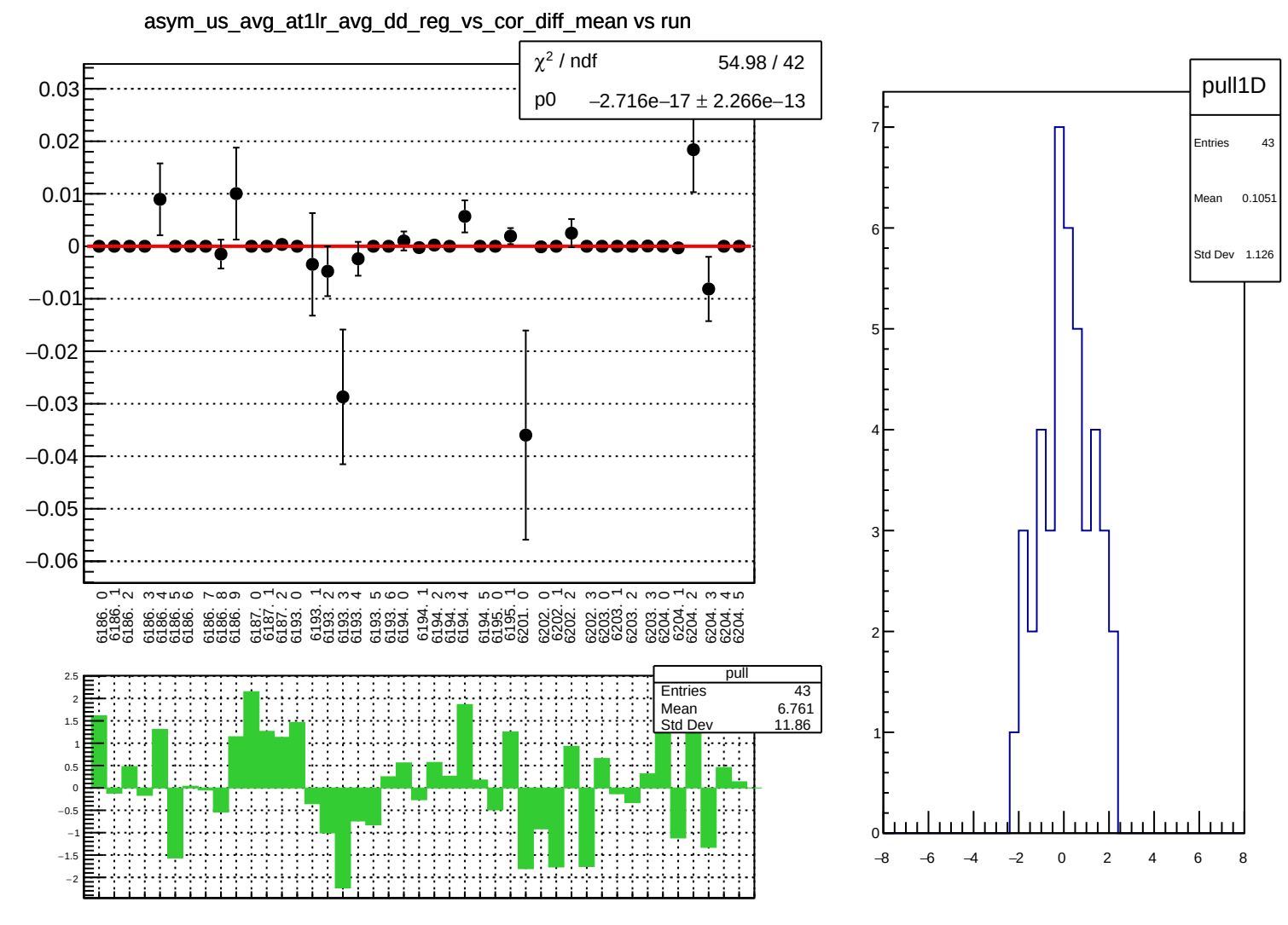

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 58.17 / 42
p0 1276 ± 1532
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 163.7
Std Dev 0
3
2
1
0
−1
−2
−3

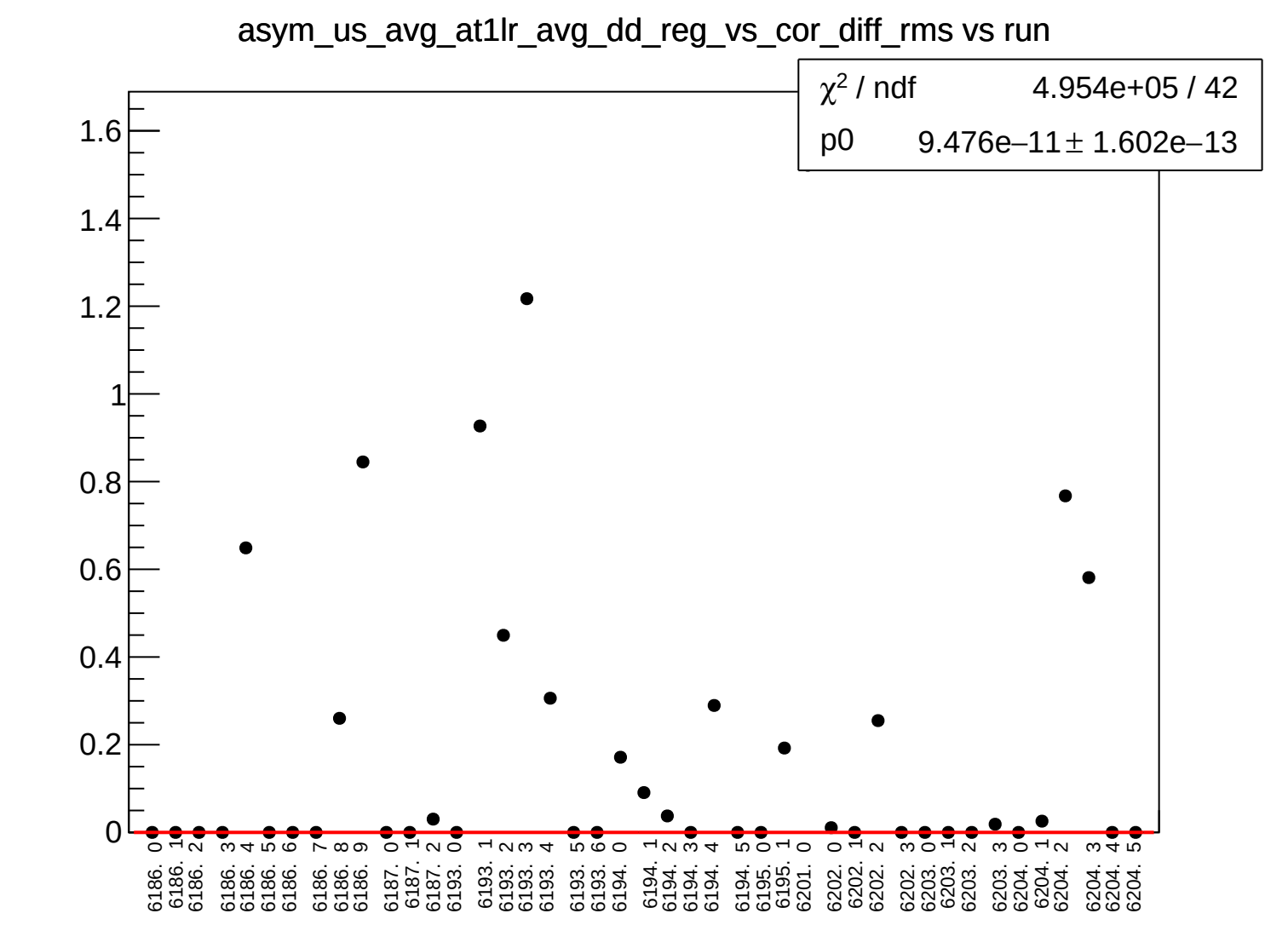

pull1D
Entries 43
Mean 0.00681
Std Dev 1.163
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

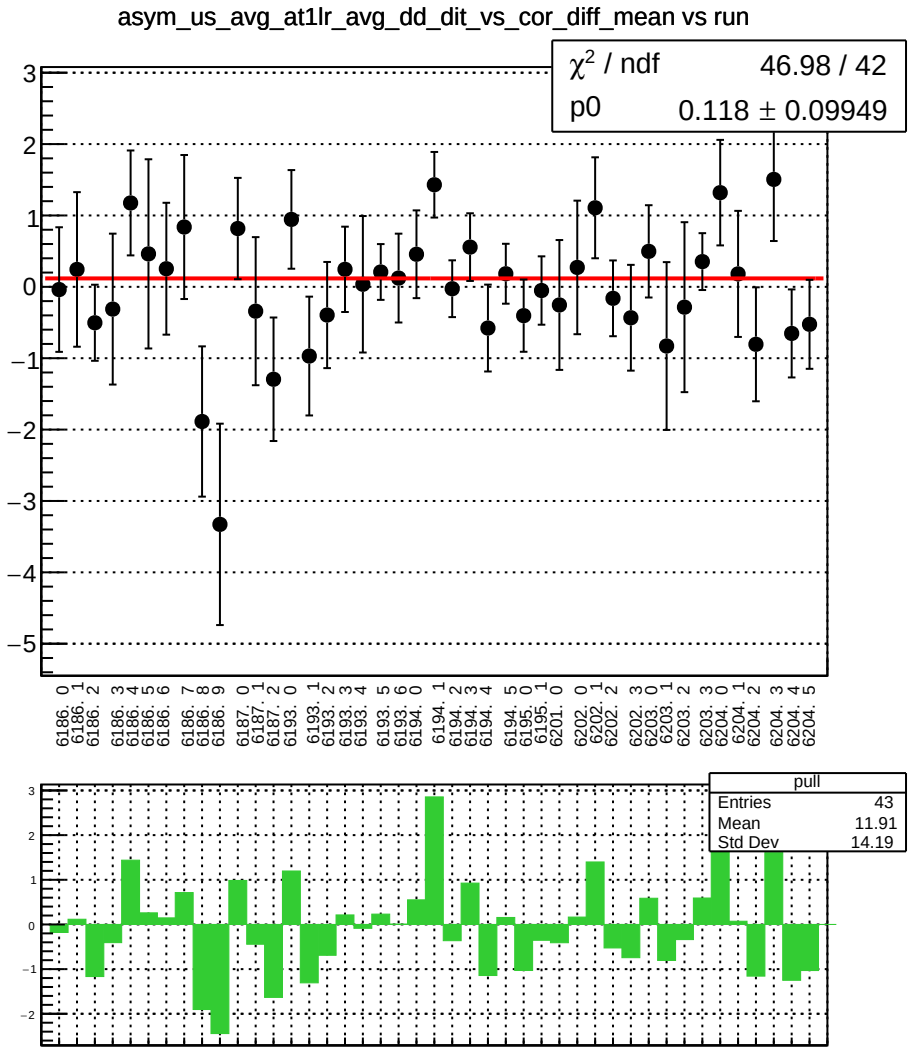

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3838 / 42
p0 993.6 ± 1.083
1150
1100
1050
1000
950
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

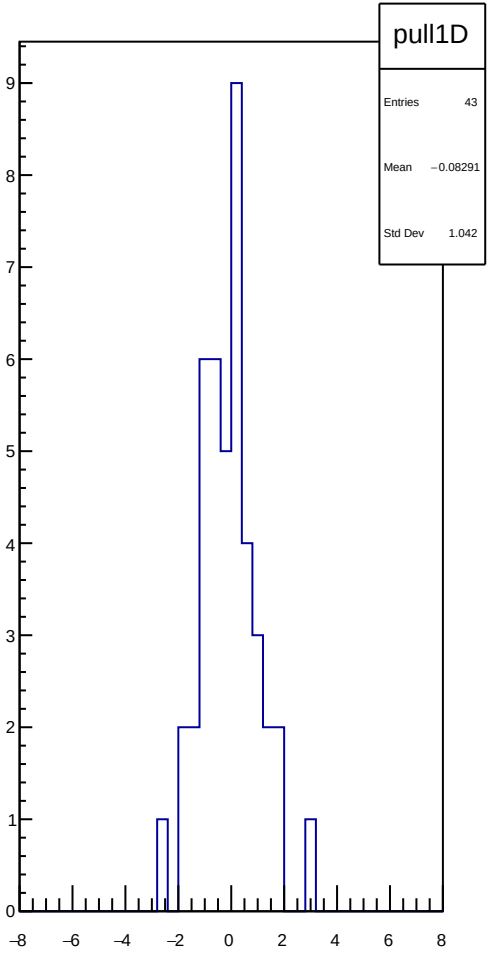

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 48.71 / 42
p0 1546 ± 3084
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −266.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01486
Std Dev 1.064
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

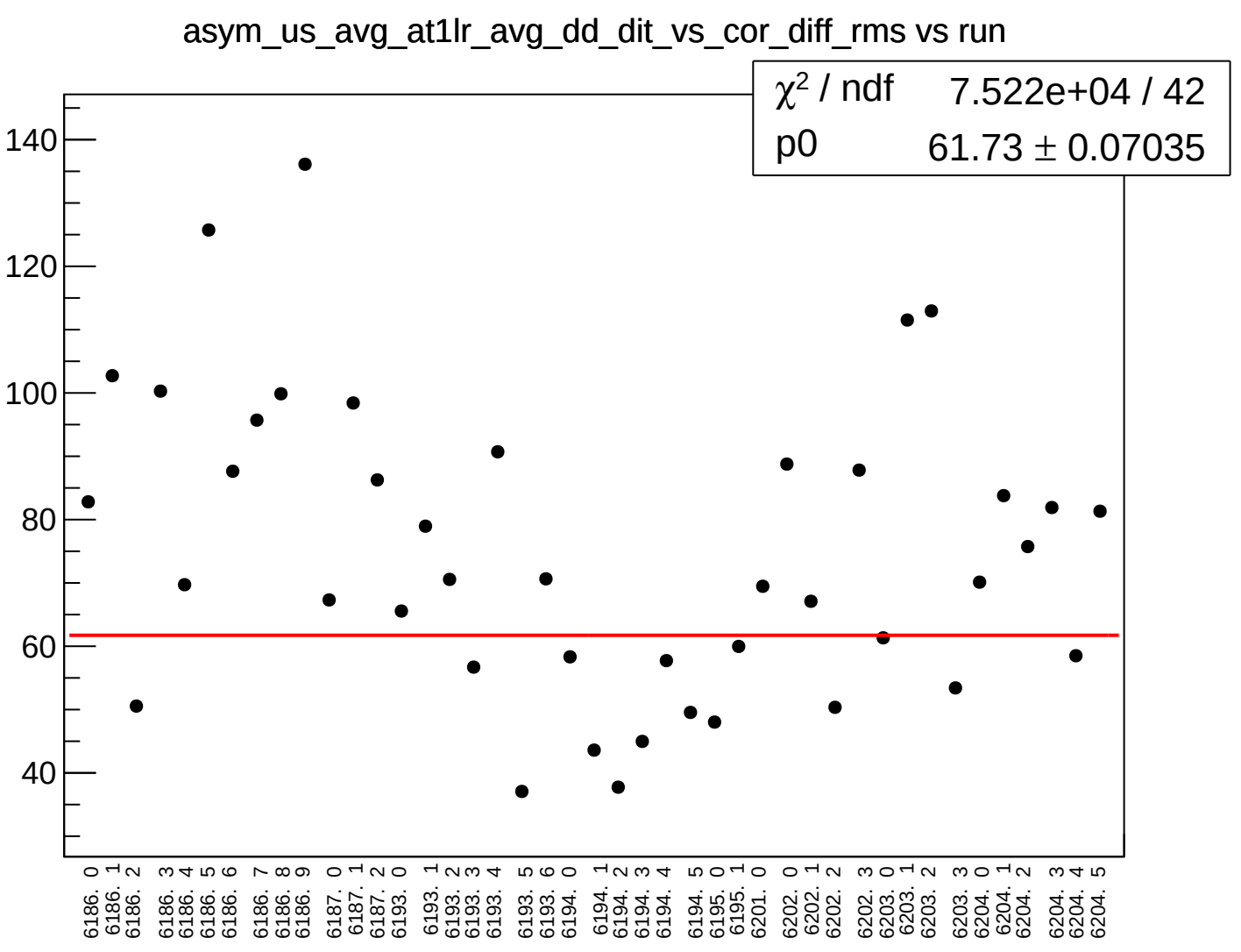

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 671.4 / 42
p0 2004 ± 2.181
2150
2100
2050
2000
1950
1900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

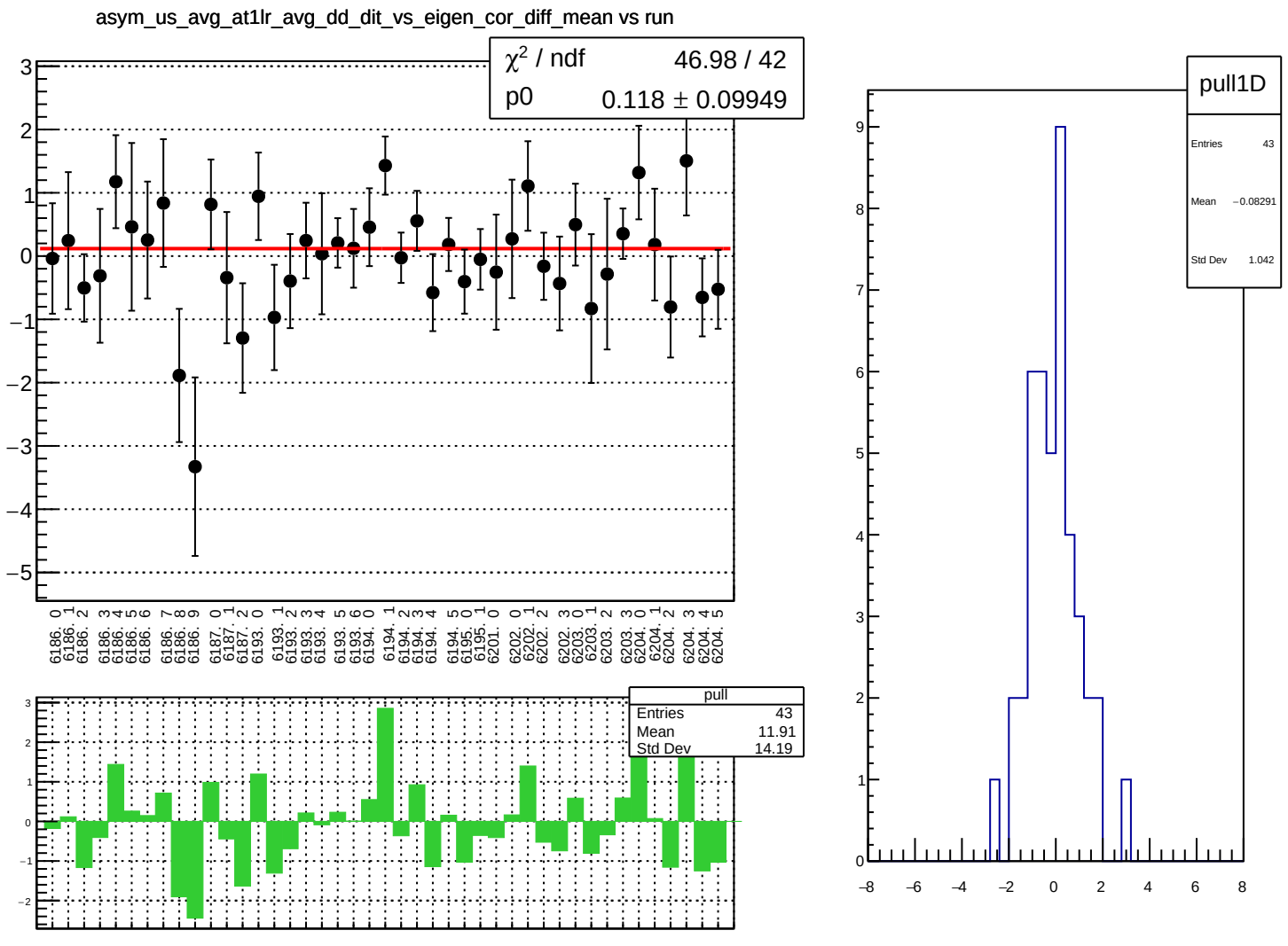

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 54.98 / 42
p0 −2.716e−17 ± 2.266e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 6.761
Std Dev 11.86
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.1051
Std Dev 1.126
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

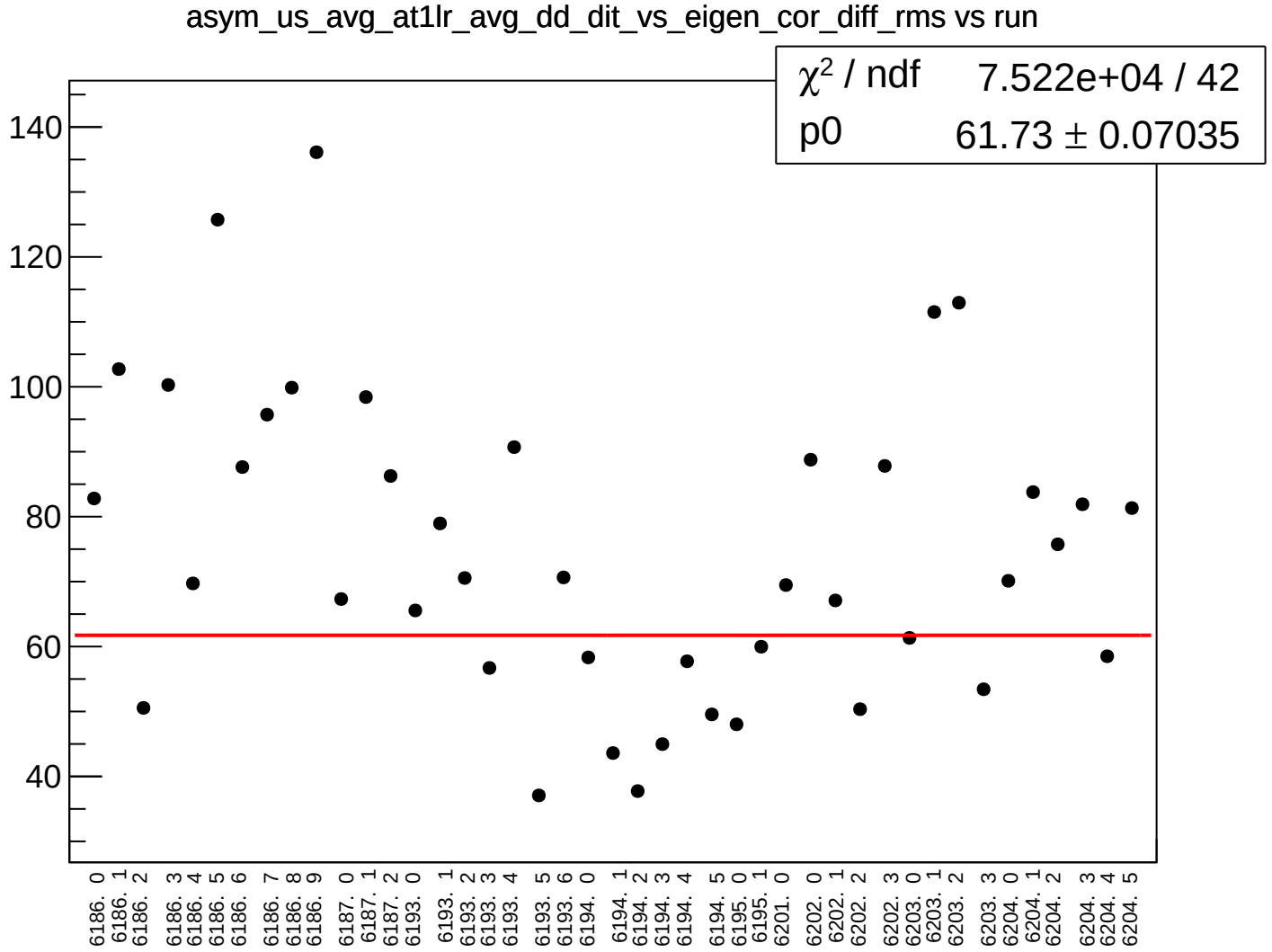

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.954e+05 / 42
p0 9.476e−11 ± 1.602e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

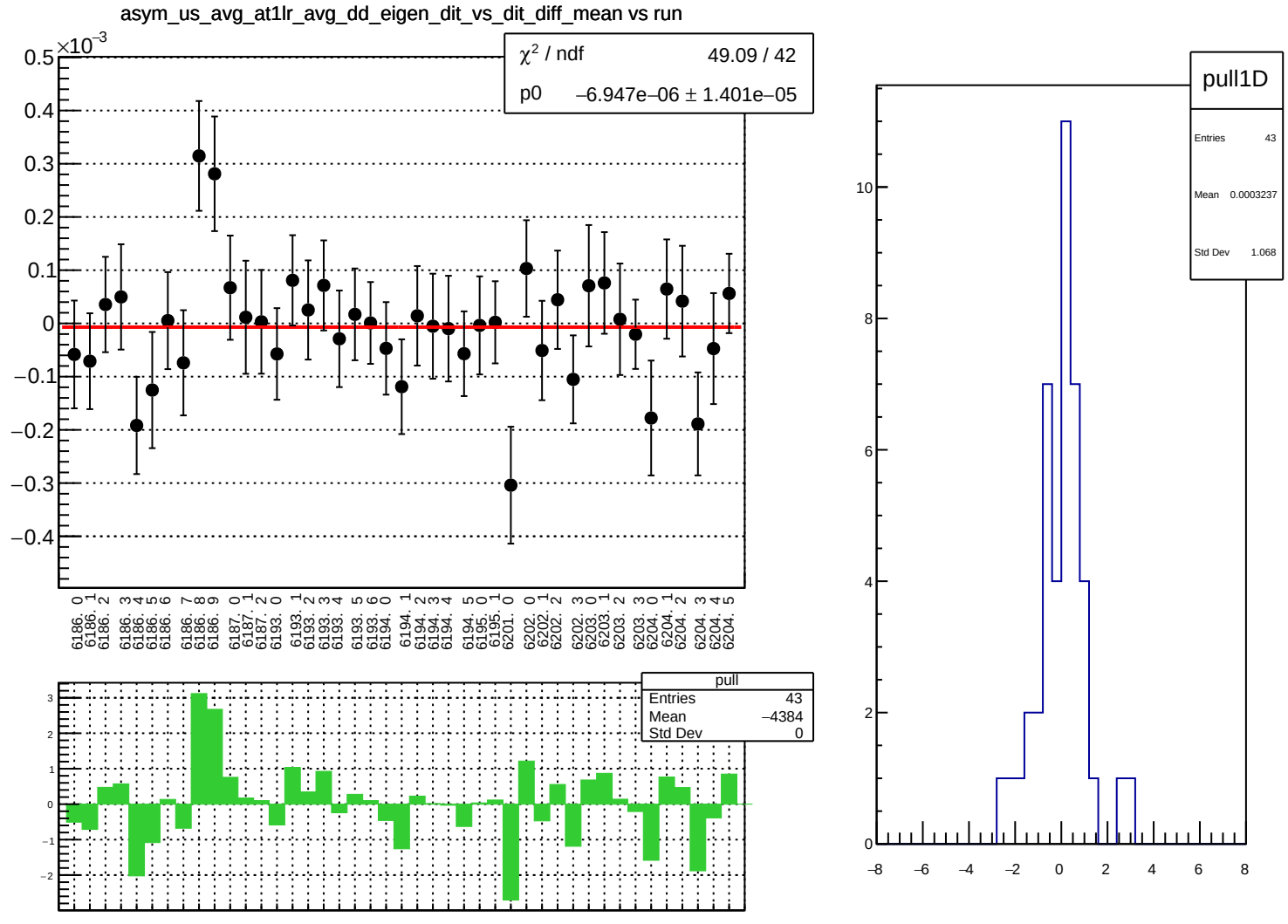

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 46.98 / 42
p0 0.118 ± 0.09949
pull
Entries 43
Mean 11.91
Std Dev 14.19

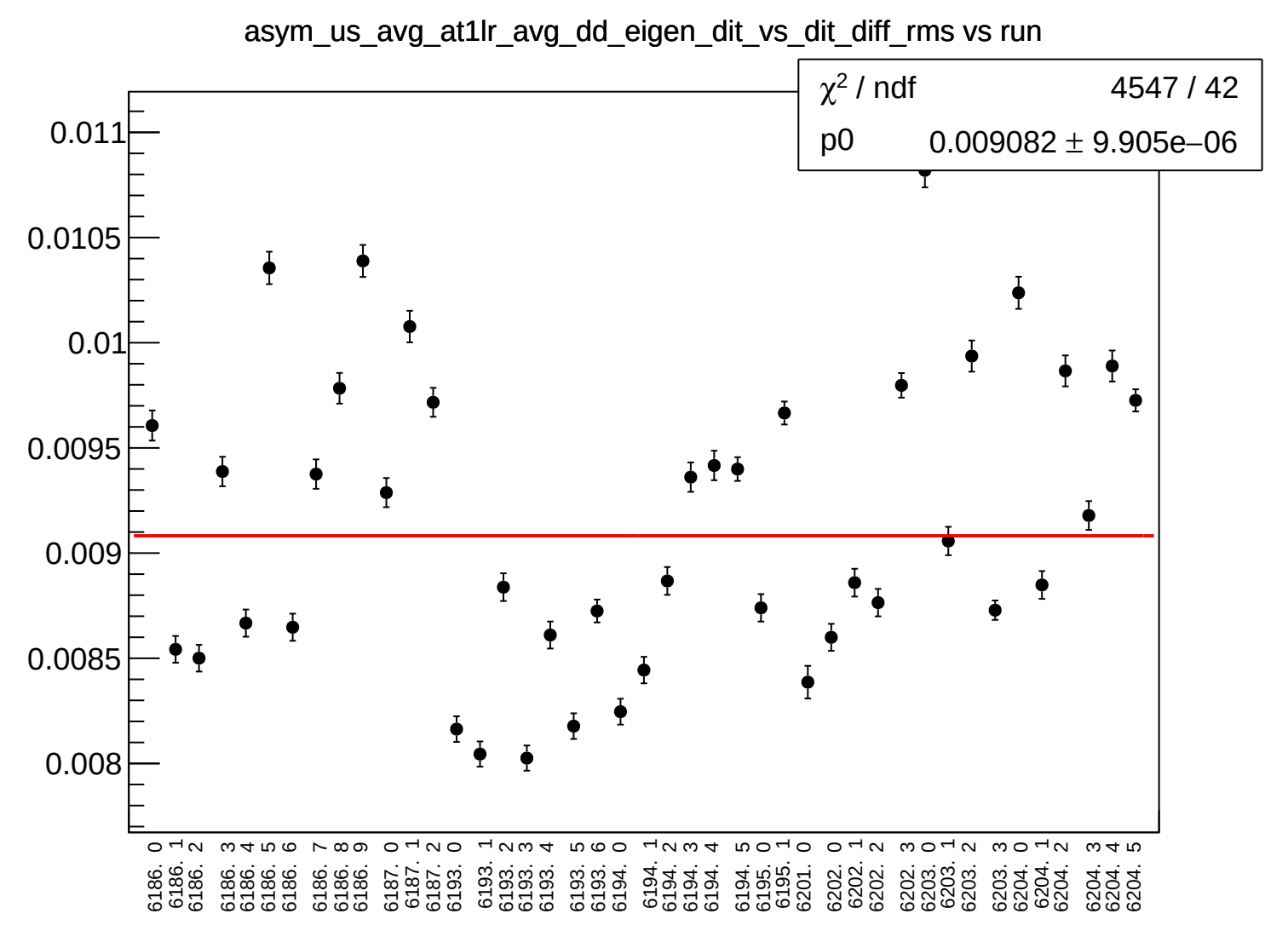

pull1D
Entries 43
Mean −0.08291
Std Dev 1.042

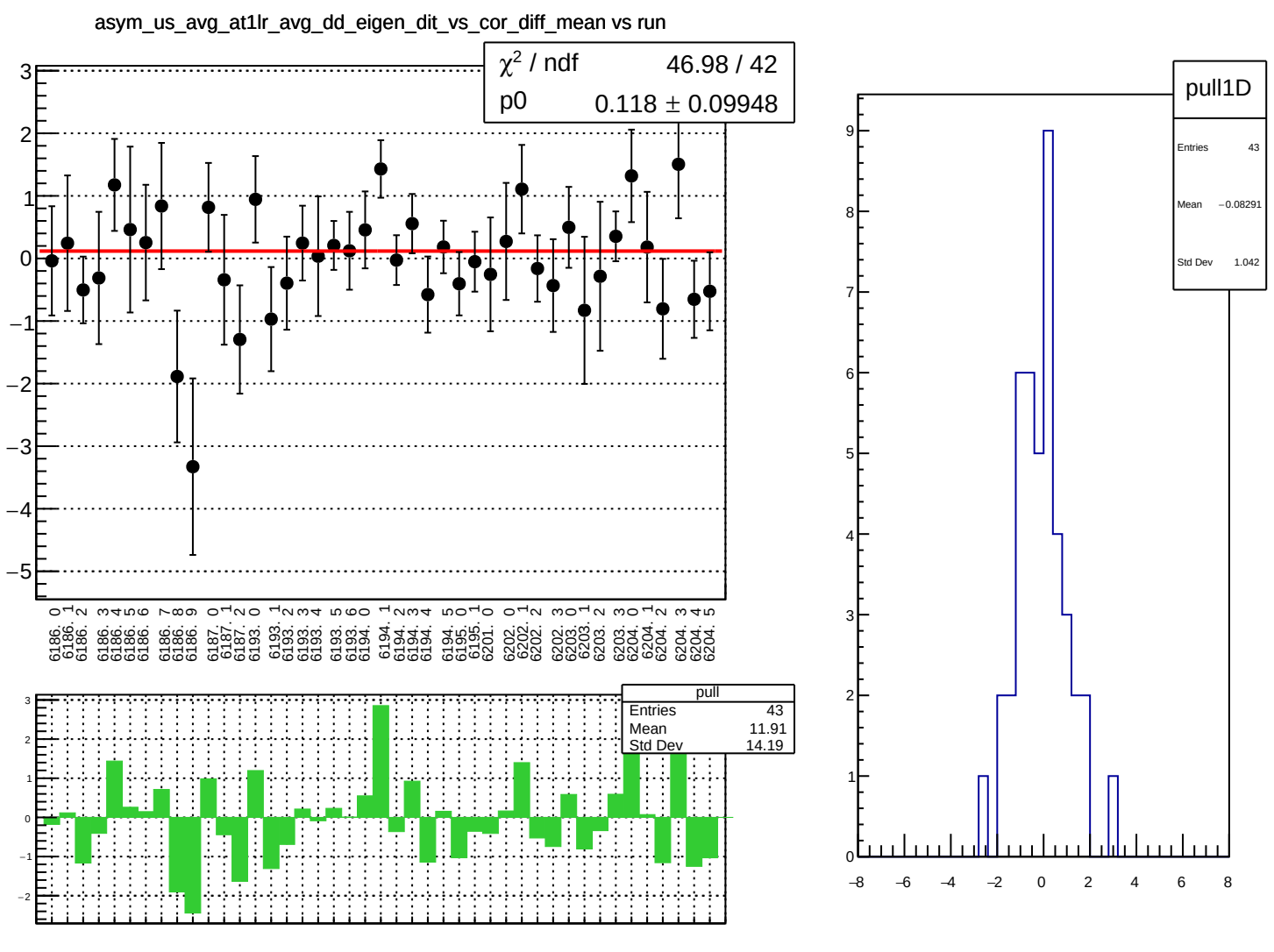

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.522e+04 / 42
p0 61.73 ± 0.07035
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

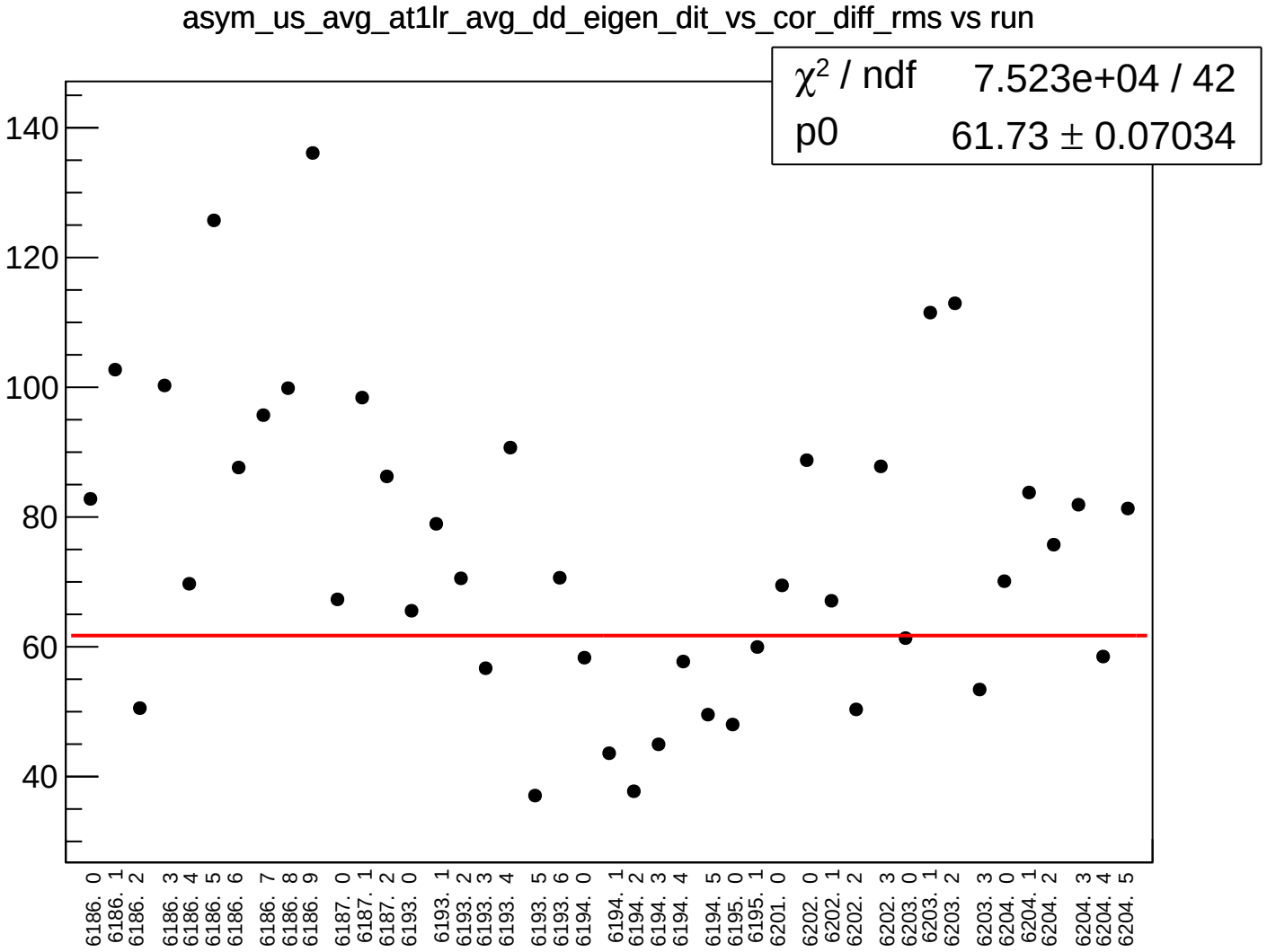

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.98 / 42
p0 0.118 ± 0.09949
pull
Entries 43
Mean 11.91
Std Dev 14.19
pull1D
Entries 43
Mean −0.08291
Std Dev 1.042

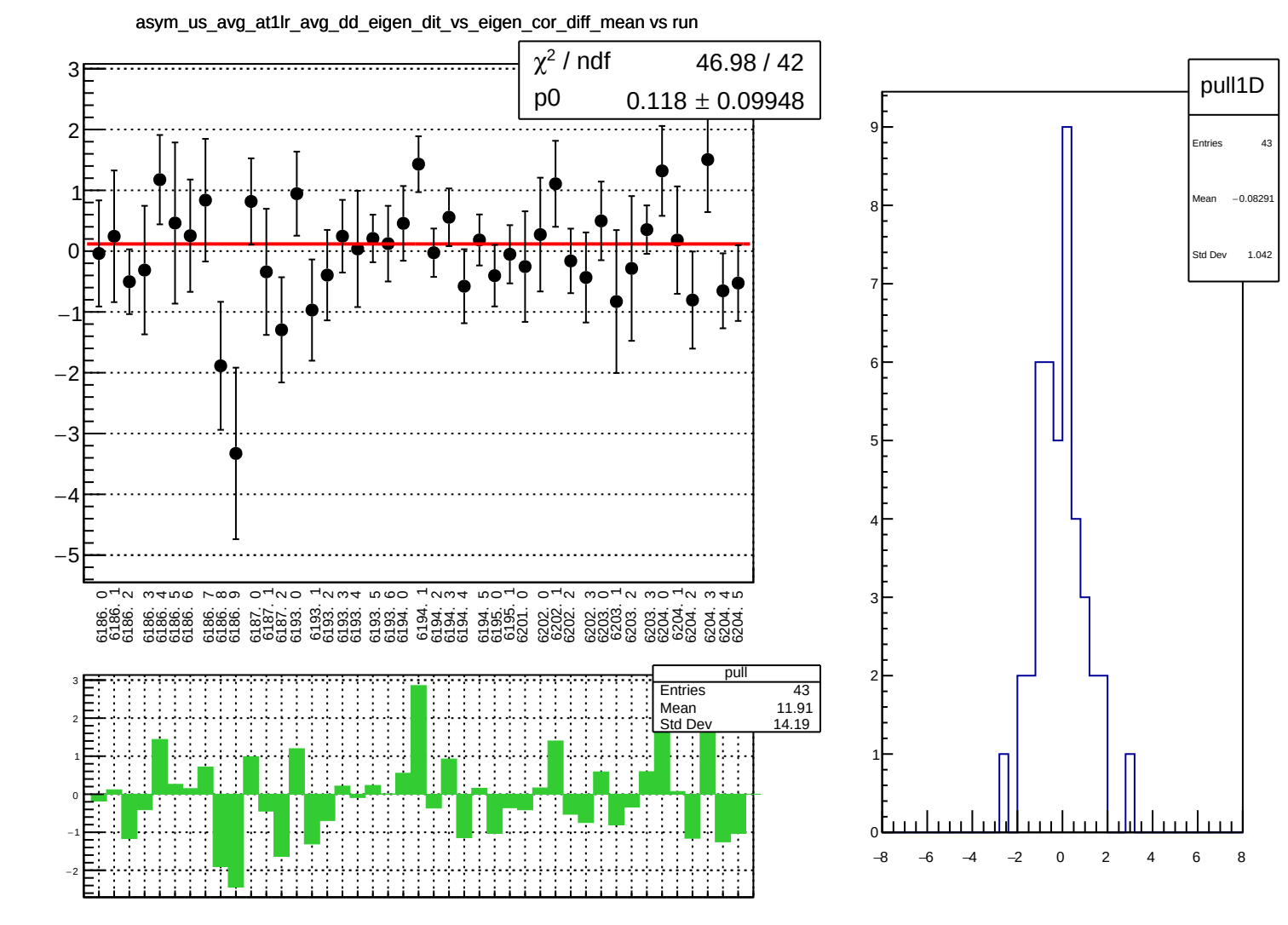

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.522e+04 / 42
p0 61.73 ± 0.07035
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

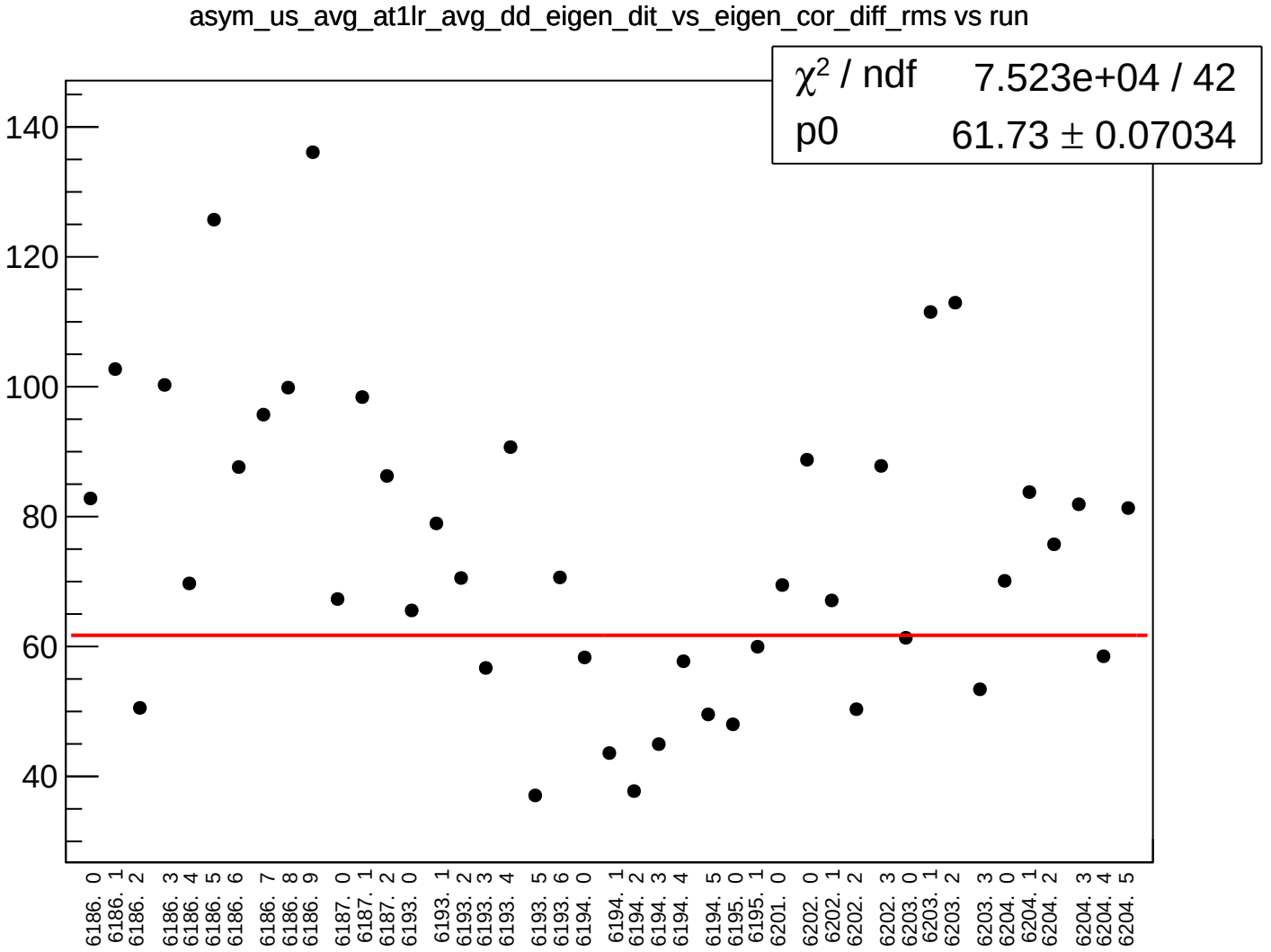

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 49.09 / 42
p0 −6.947e−06 ± 1.401e−05
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −4384
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.0003237
Std Dev 1.068
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

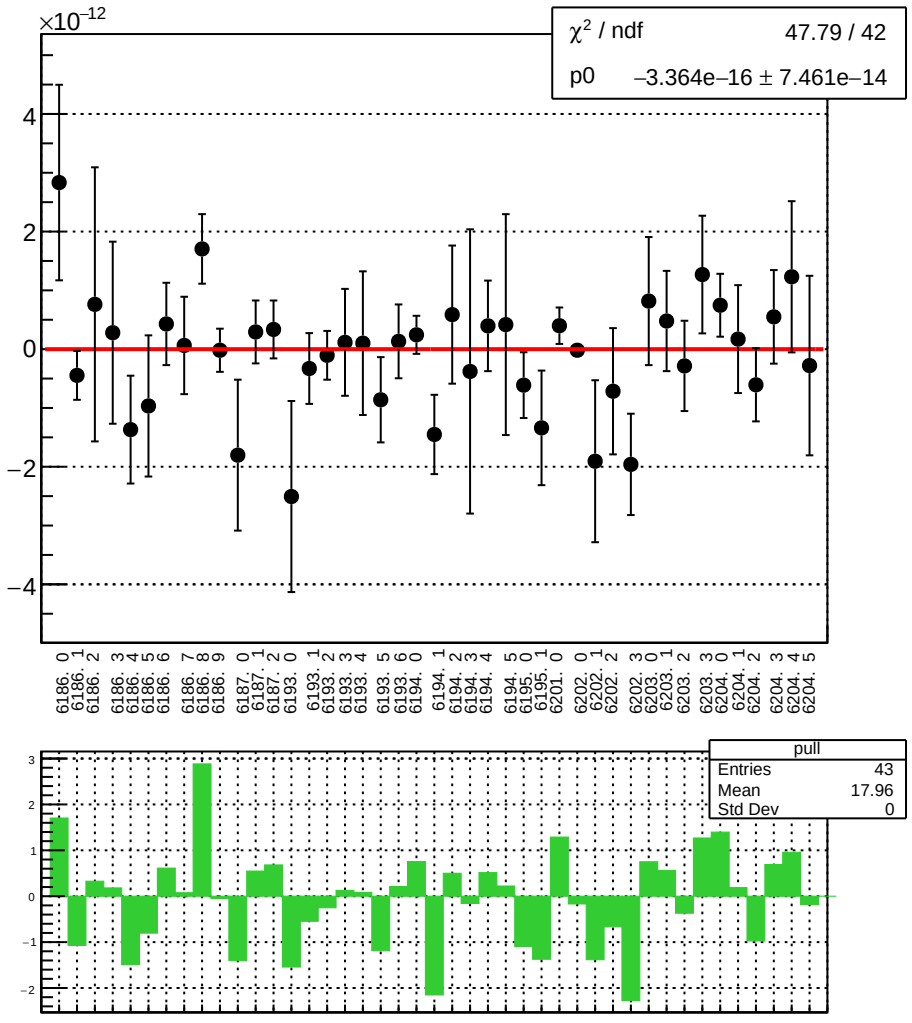

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4547 / 42
p0 0.009082 ± 9.905e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

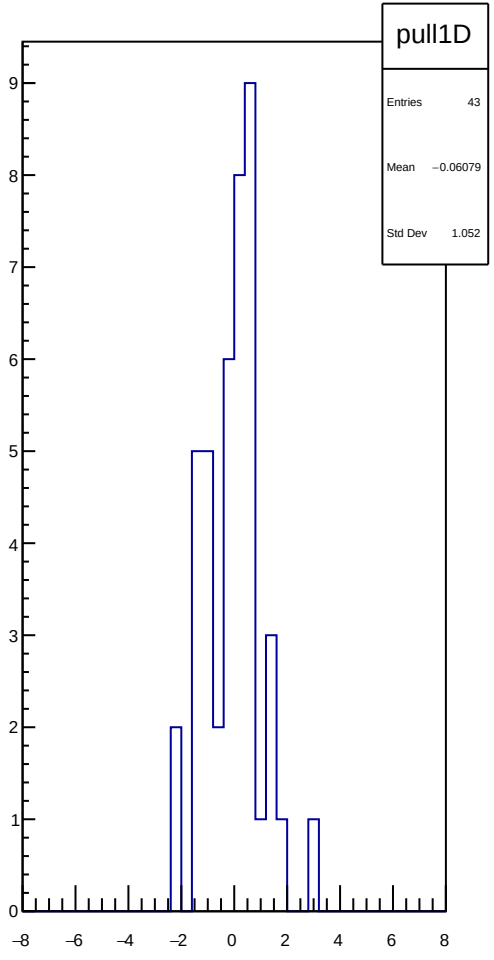

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.98 / 42
p0 0.118 ± 0.09948
pull
Entries 43
Mean 11.91
Std Dev 14.19
pull1D
Entries 43
Mean −0.08291
Std Dev 1.042

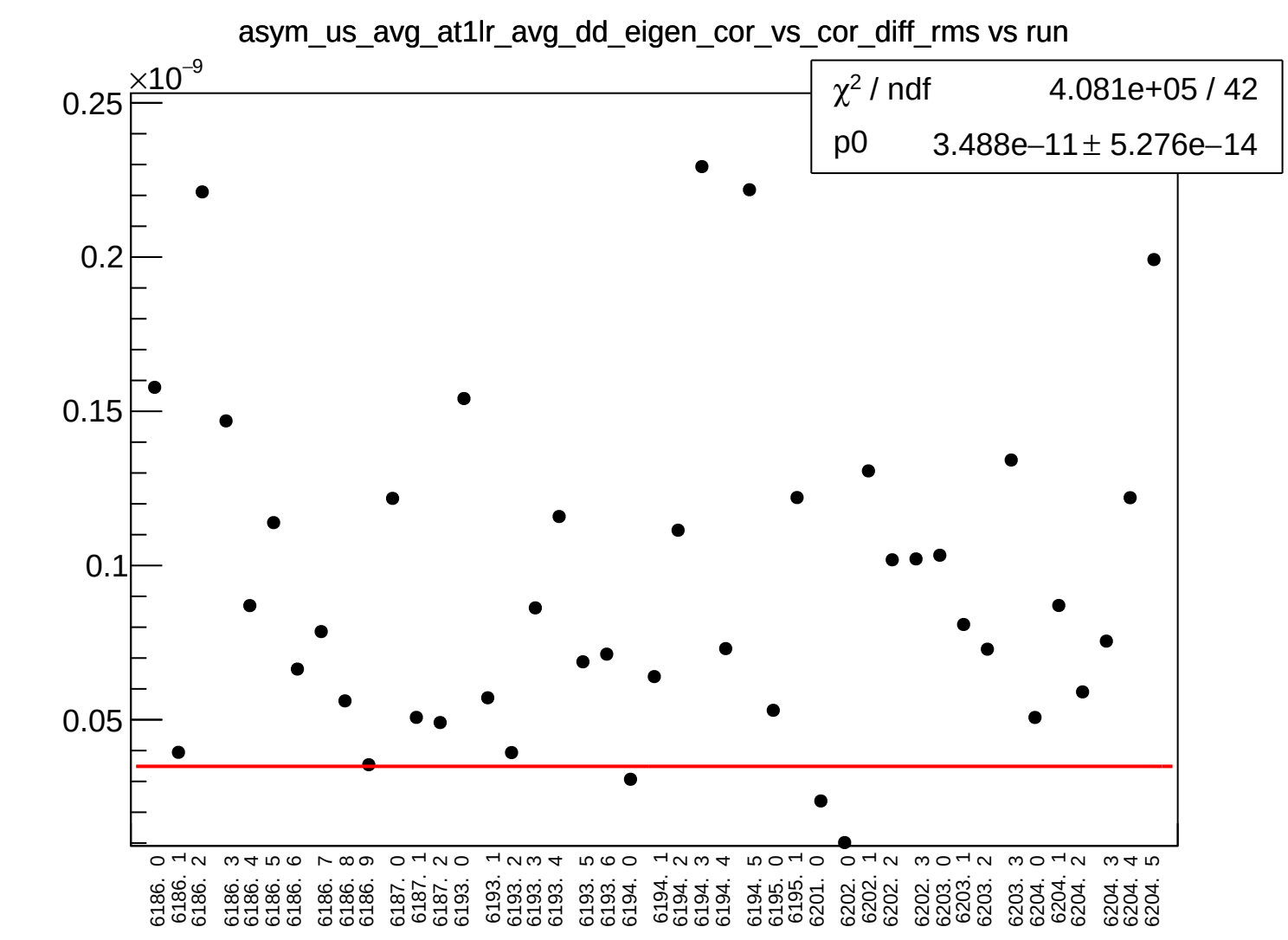

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.523e+04 / 42
p0 61.73 ± 0.07034
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

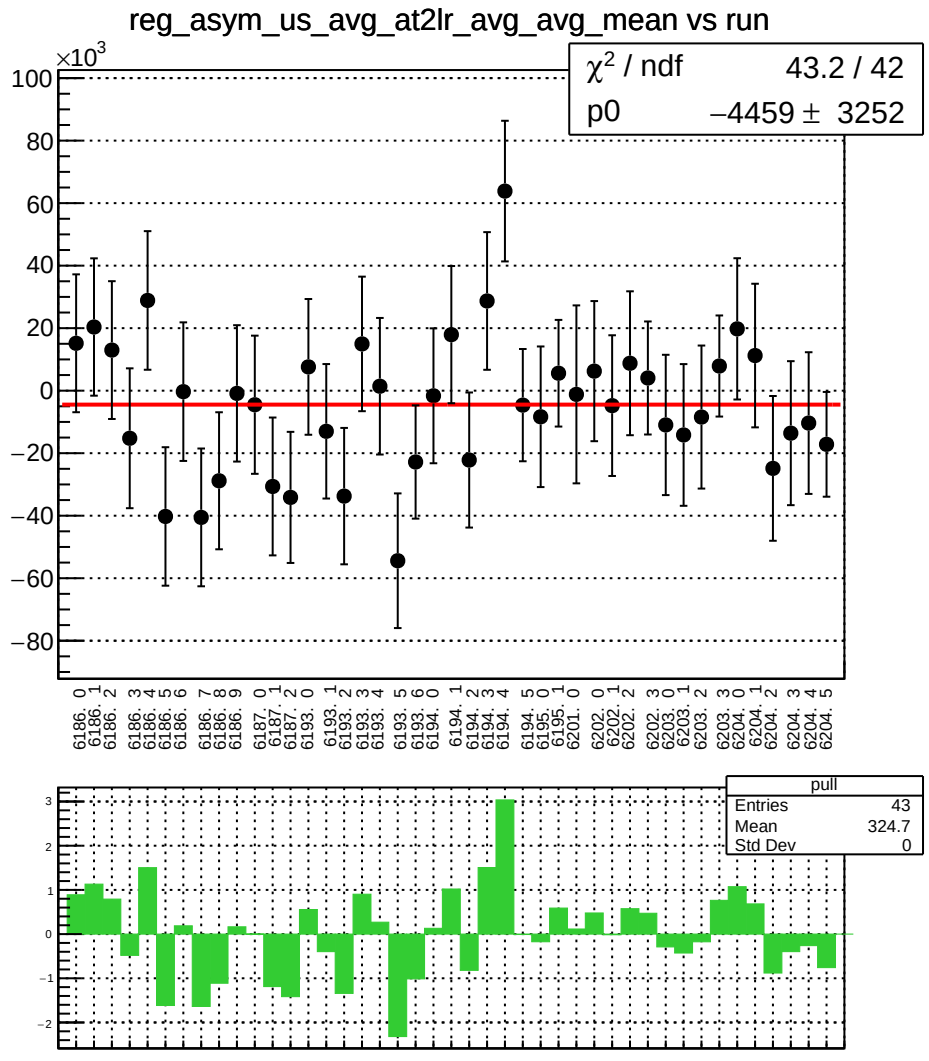

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.98 / 42
p0 0.118 ± 0.09948
pull
Entries 43
Mean 11.91
Std Dev 14.19
pull1D
Entries 43
Mean −0.08291
Std Dev 1.042

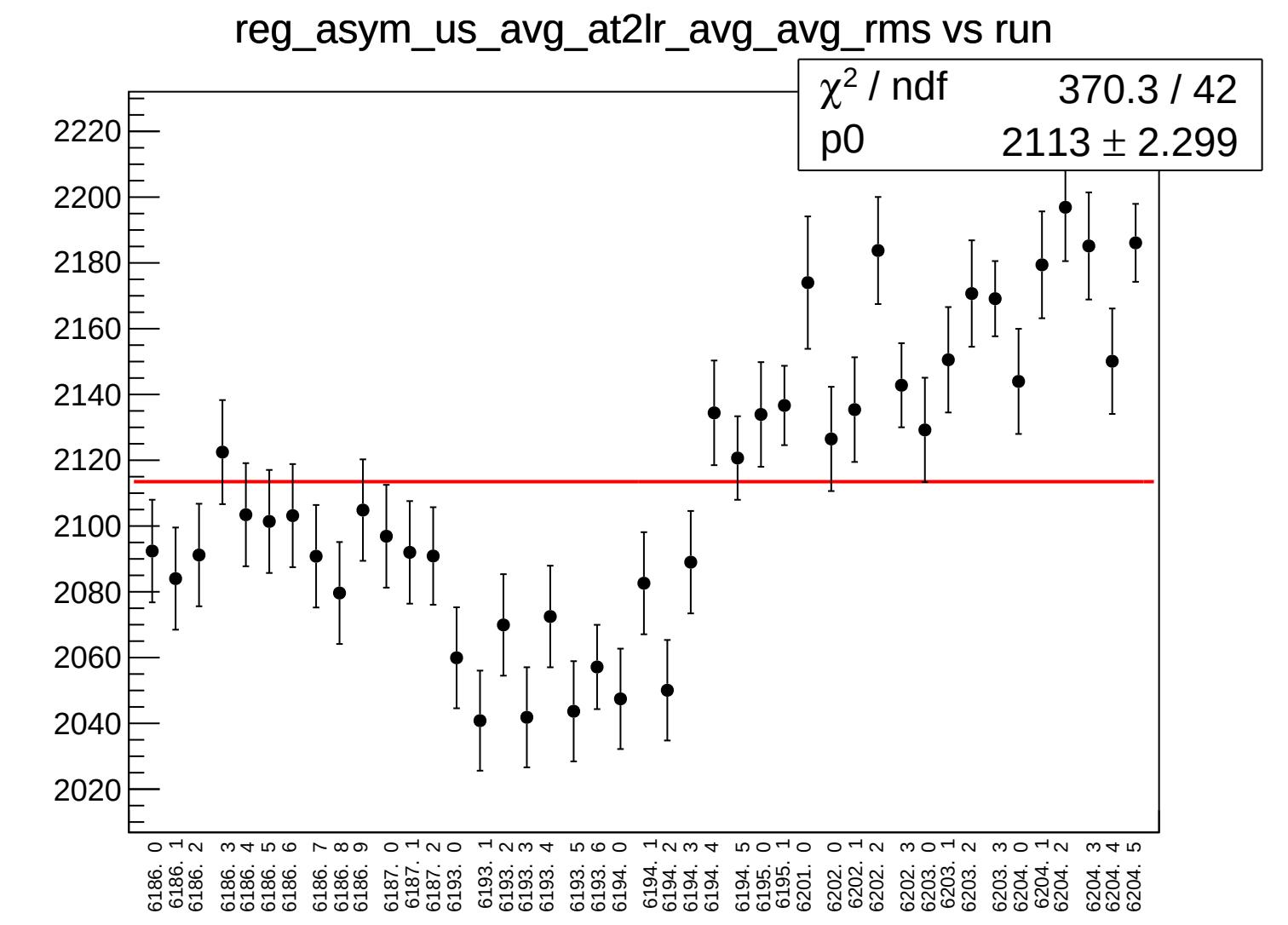

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.523e+04 / 42
p0 61.73 ± 0.07034
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

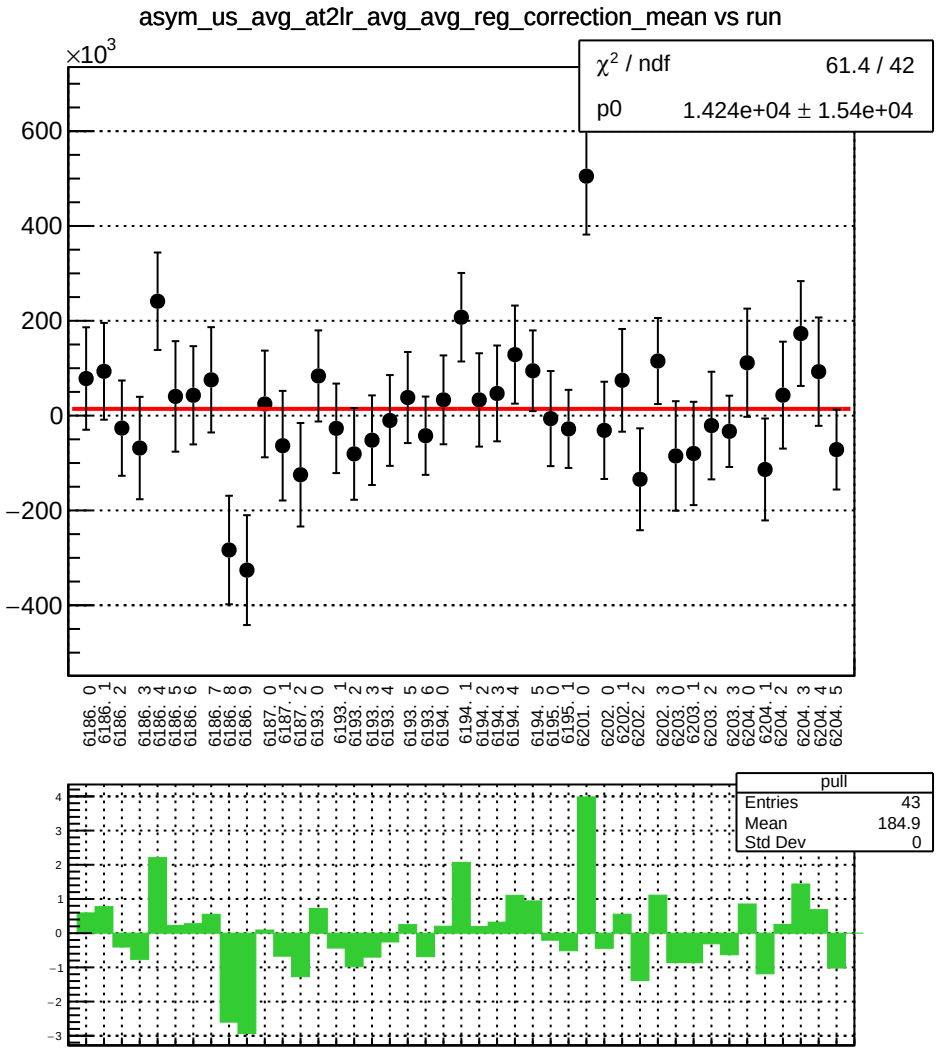

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 47.79 / 42
p0 −3.364e−16 ± 7.461e−14
4
2
0
−2
−4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 17.96
Std Dev 0
3
2
1
0
−1
−2

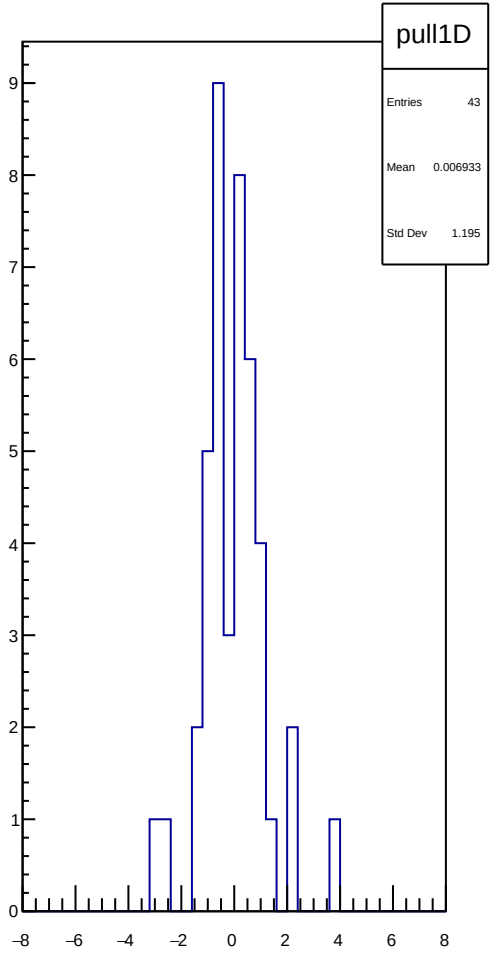

pull1D
Entries 43
Mean −0.06079
Std Dev 1.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

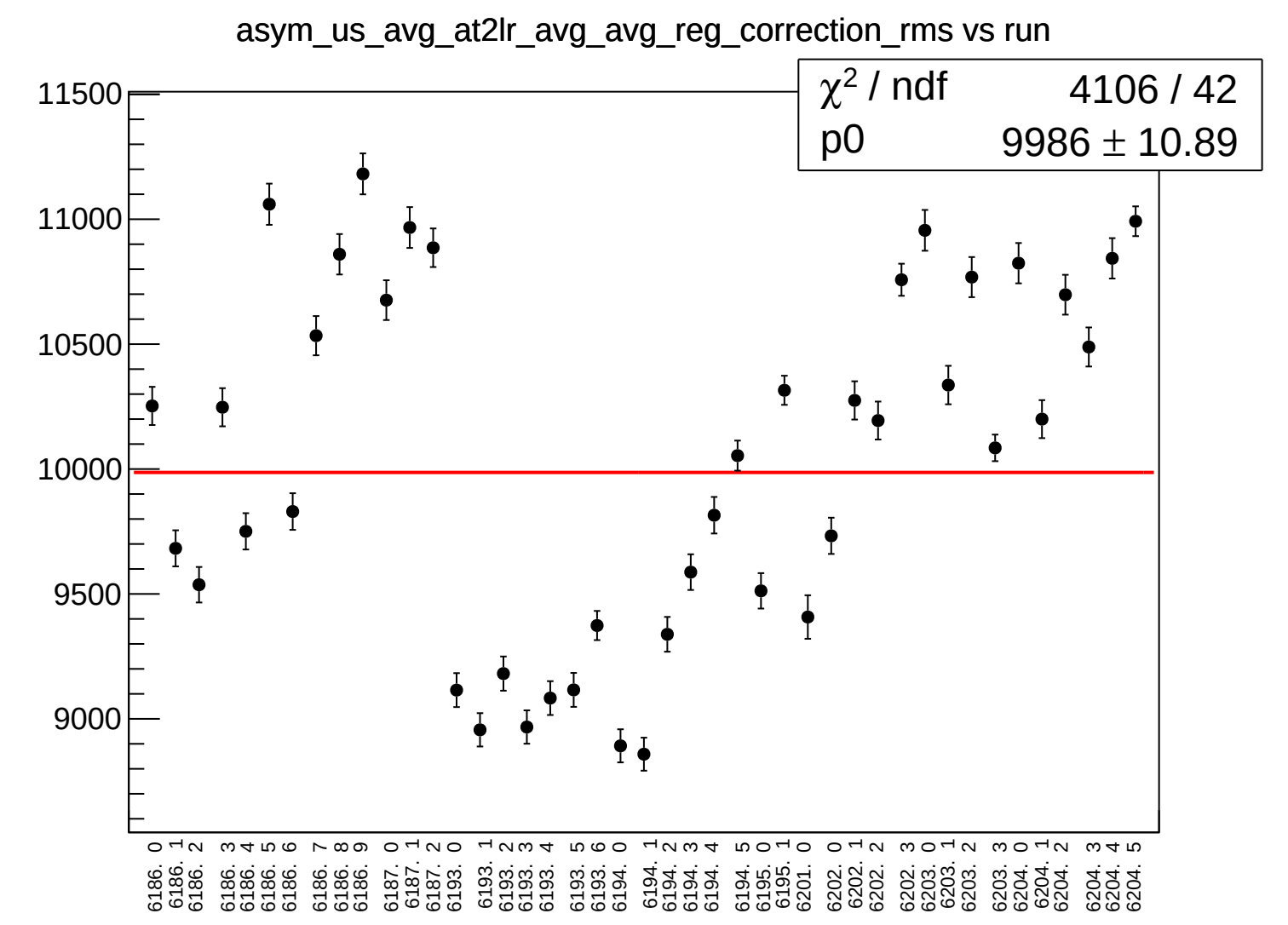

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.081e+05 / 42
p0 3.488e−11 ± 5.276e−14
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

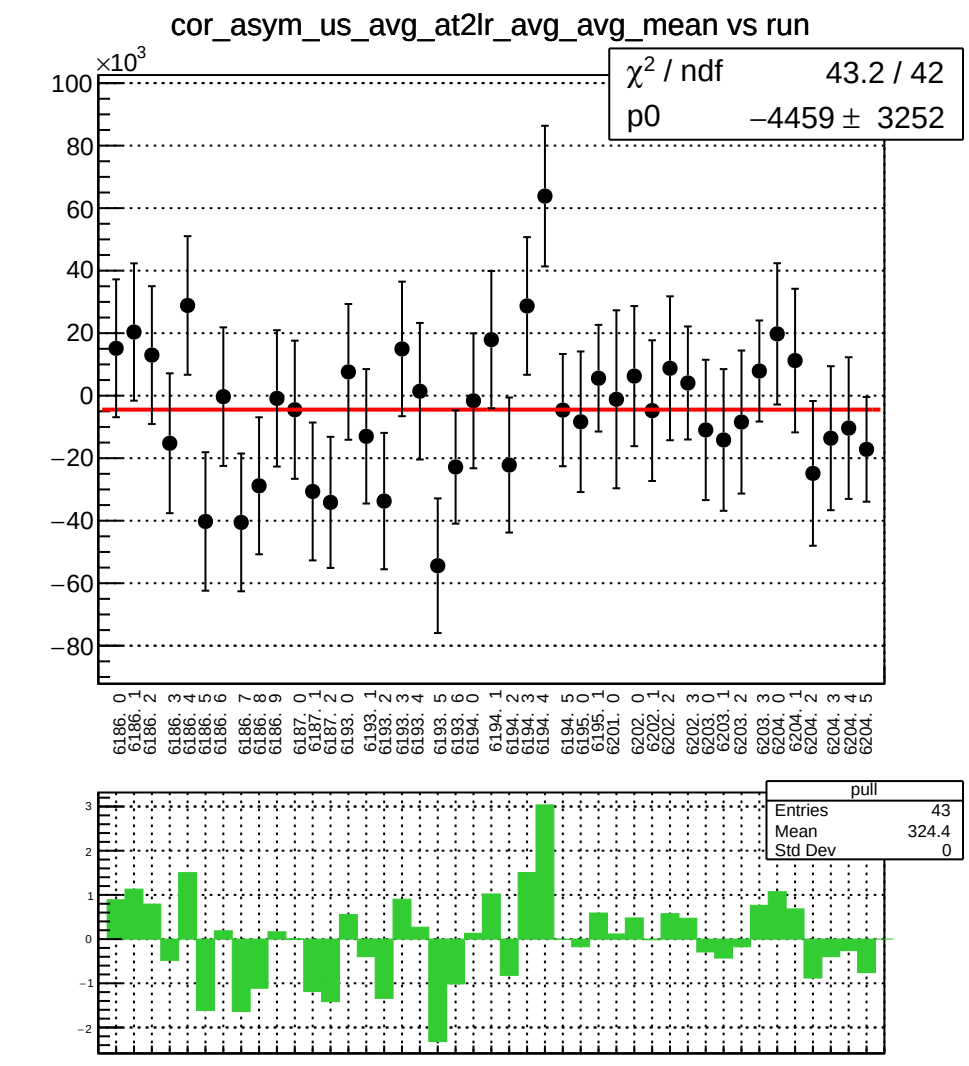

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 43.2 / 42
p0 −4459 ± 3252
100
80
60
40
20
0
−20
−40
−60
−80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 324.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.002537
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

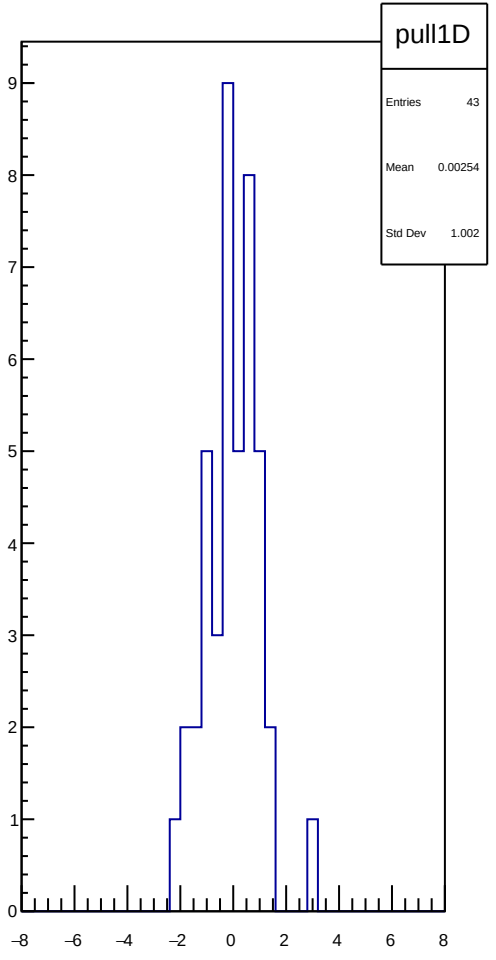

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 370.3 / 42
p0 2113 ± 2.299
2220
2200
2180
2160
2140
2120
2100
2080
2060
2040
2020
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

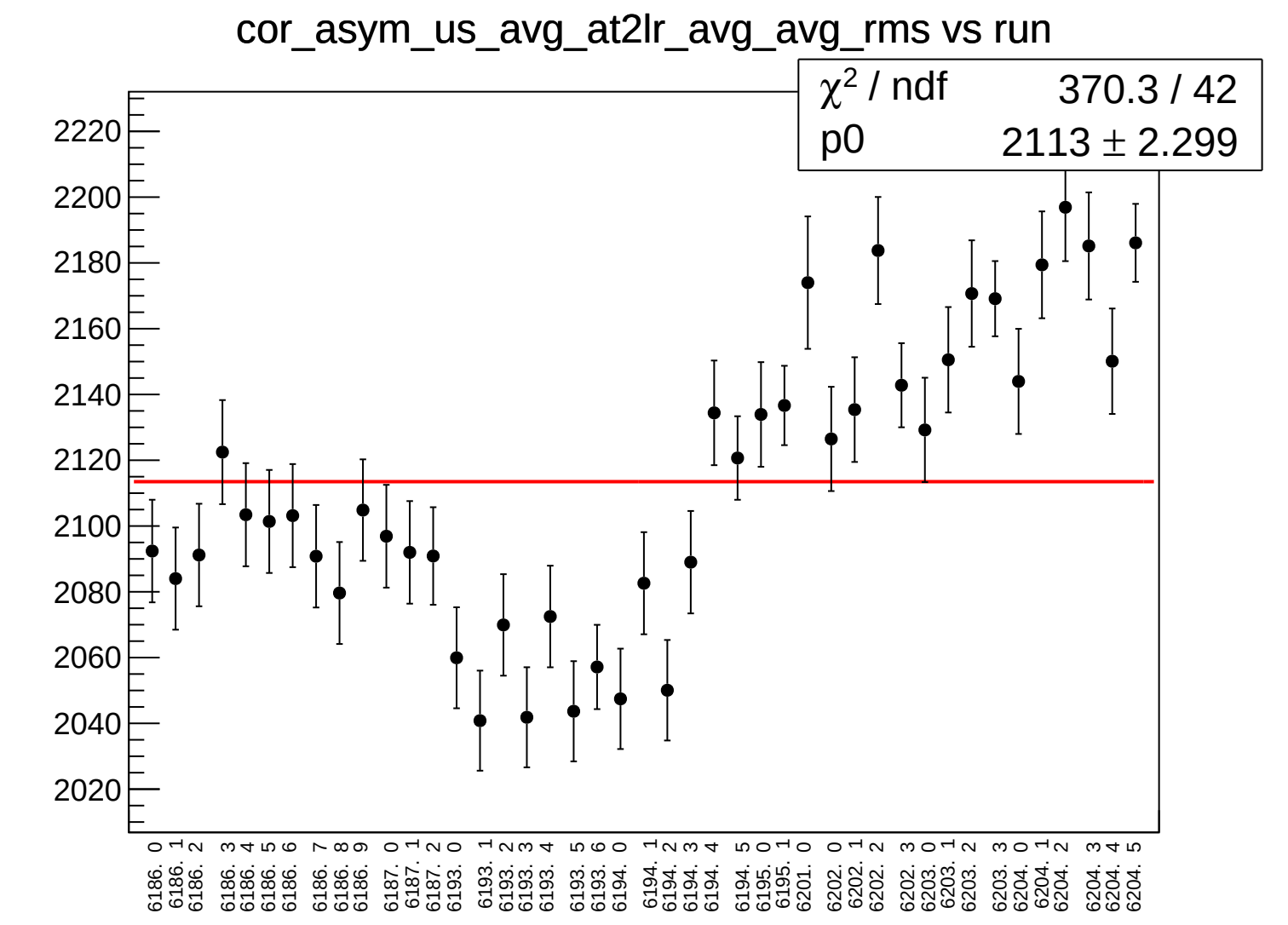

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 61.4 / 42
p0 1.424e+04 ± 1.54e+04
600
400
200
0
−200
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 184.9
Std Dev 0
4
3
2
1
0
−1
−2
−3

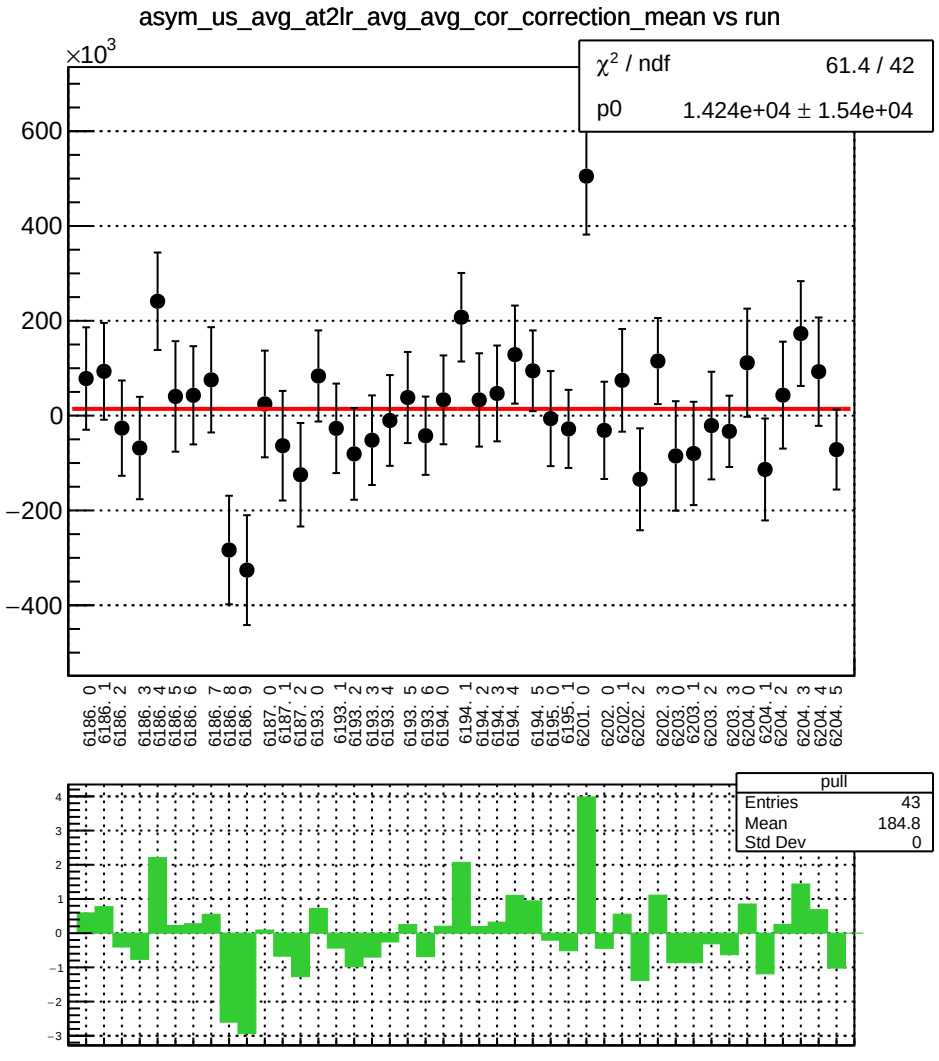

pull1D
Entries 43
Mean 0.006933
Std Dev 1.195
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

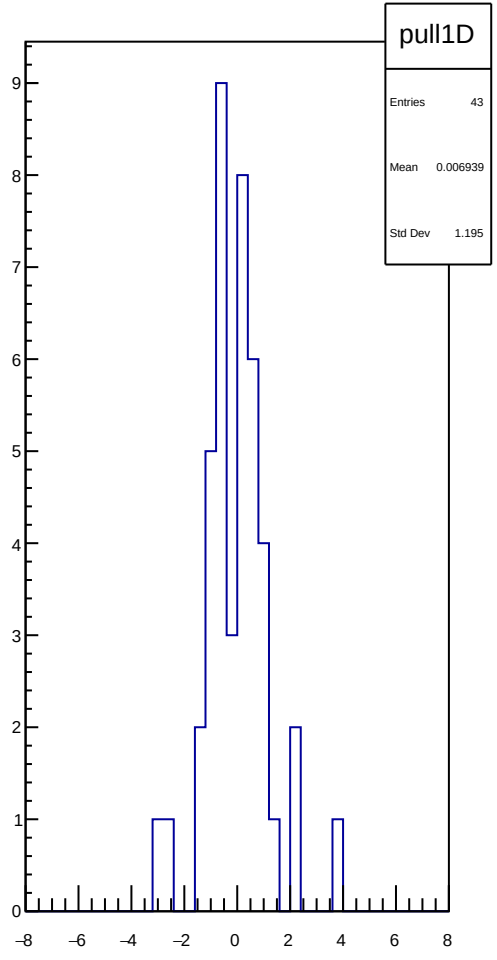

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 4106 / 42
p0 9986 ± 10.89
11500
11000
10500
10000
9500
9000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

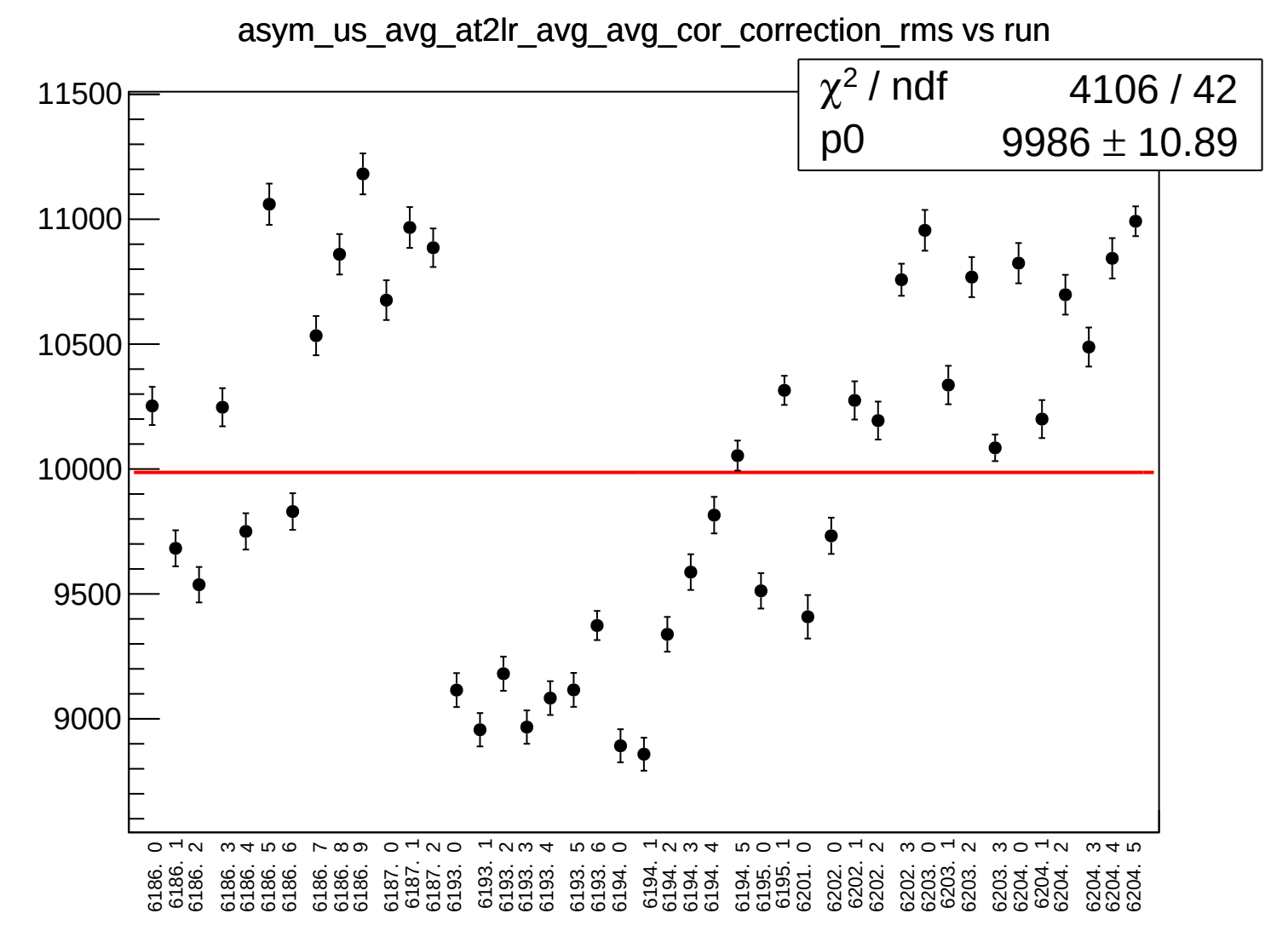

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 43.2 / 42
p0 −4459 ± 3252
pull
Entries 43
Mean 324.4
Std Dev 0

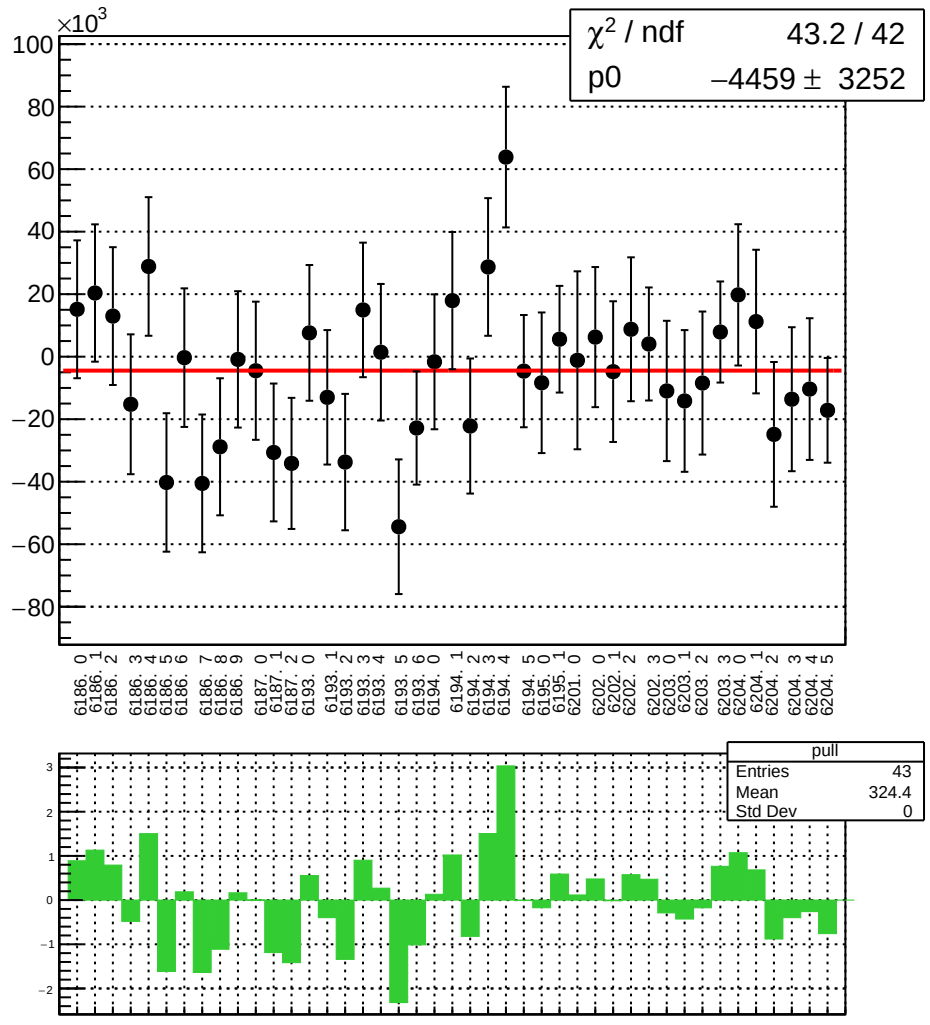

pull1D
Entries 43
Mean 0.00254
Std Dev 1.002

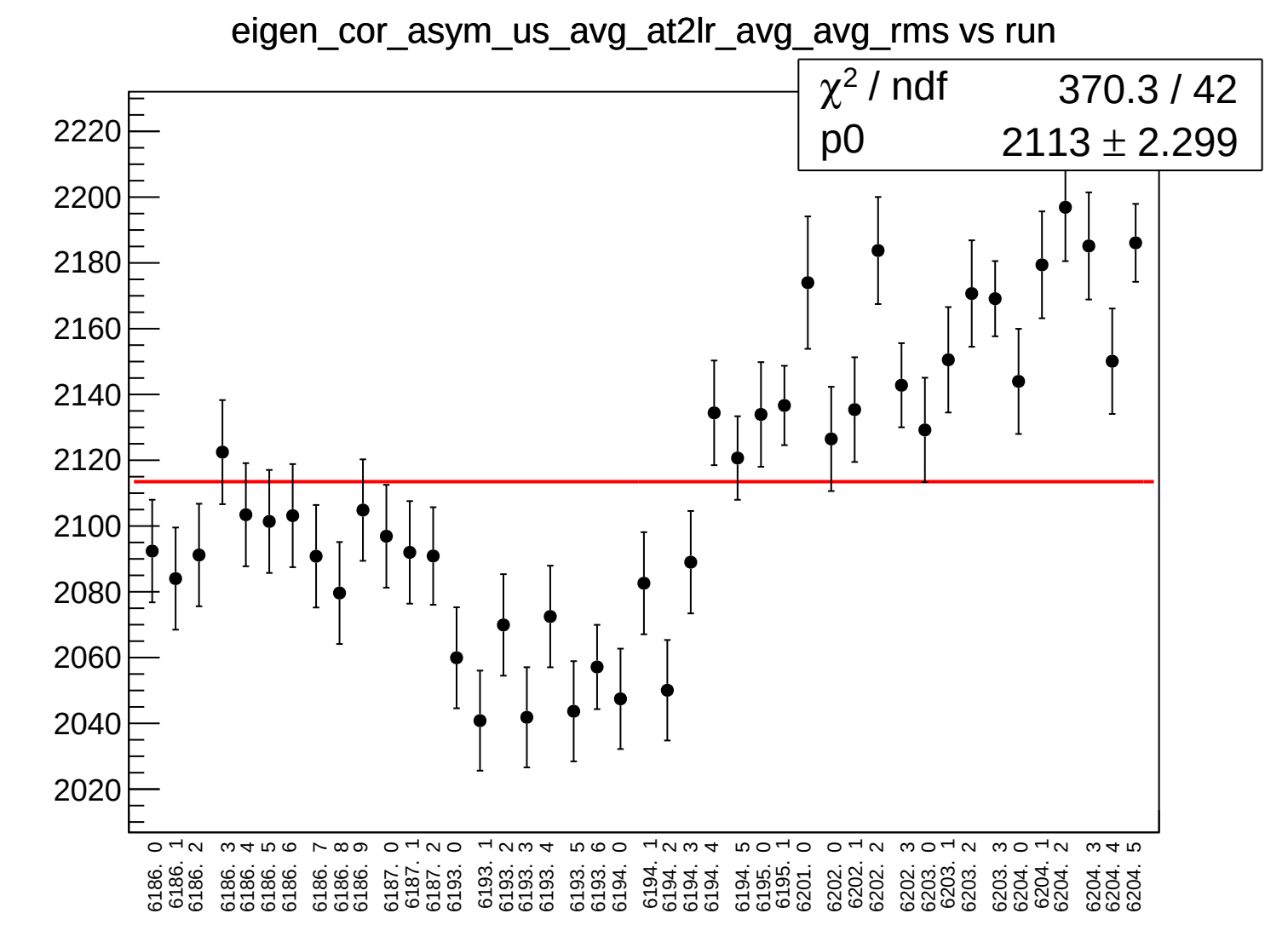

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 370.3 / 42
p0 2113 ± 2.299
2220
2200
2180
2160
2140
2120
2100
2080
2060
2040
2020
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 61.4 / 42
p0 1.424e+04 ± 1.54e+04
600
400
200
0
−200
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 184.8
Std Dev 0
4
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.006939
Std Dev 1.195
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 4106 / 42
p0 9986 ± 10.89
11500
11000
10500
10000
9500
9000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 43.2 / 42
p0 −4459 ± 3252
100
80
60
40
20
0
−20
−40
−60
−80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 324.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.00254
Std Dev 1.002
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 370.3 / 42
p0 2113 ± 2.299
2220
2200
2180
2160
2140
2120
2100
2080
2060
2040
2020
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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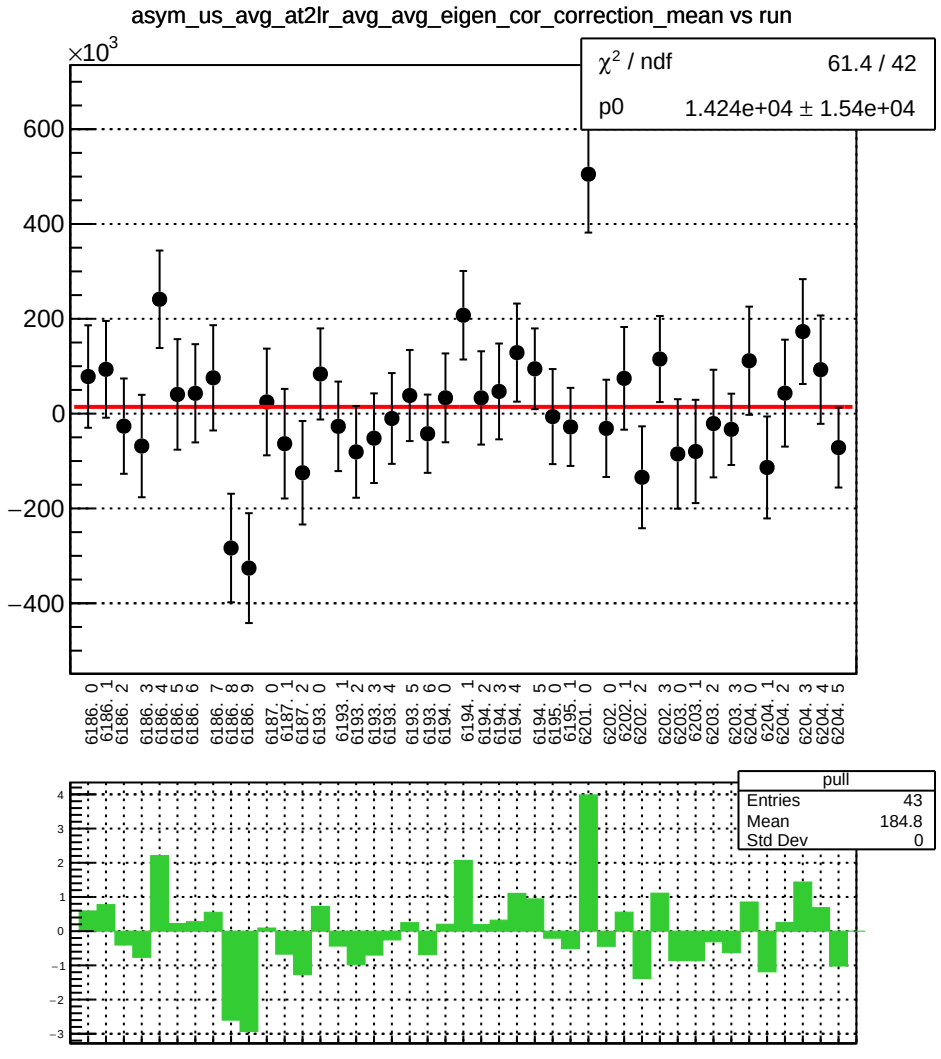
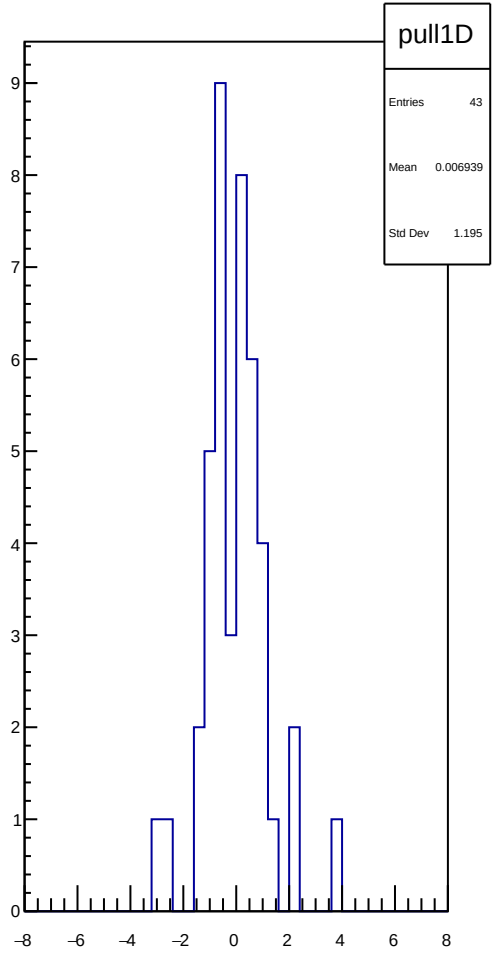
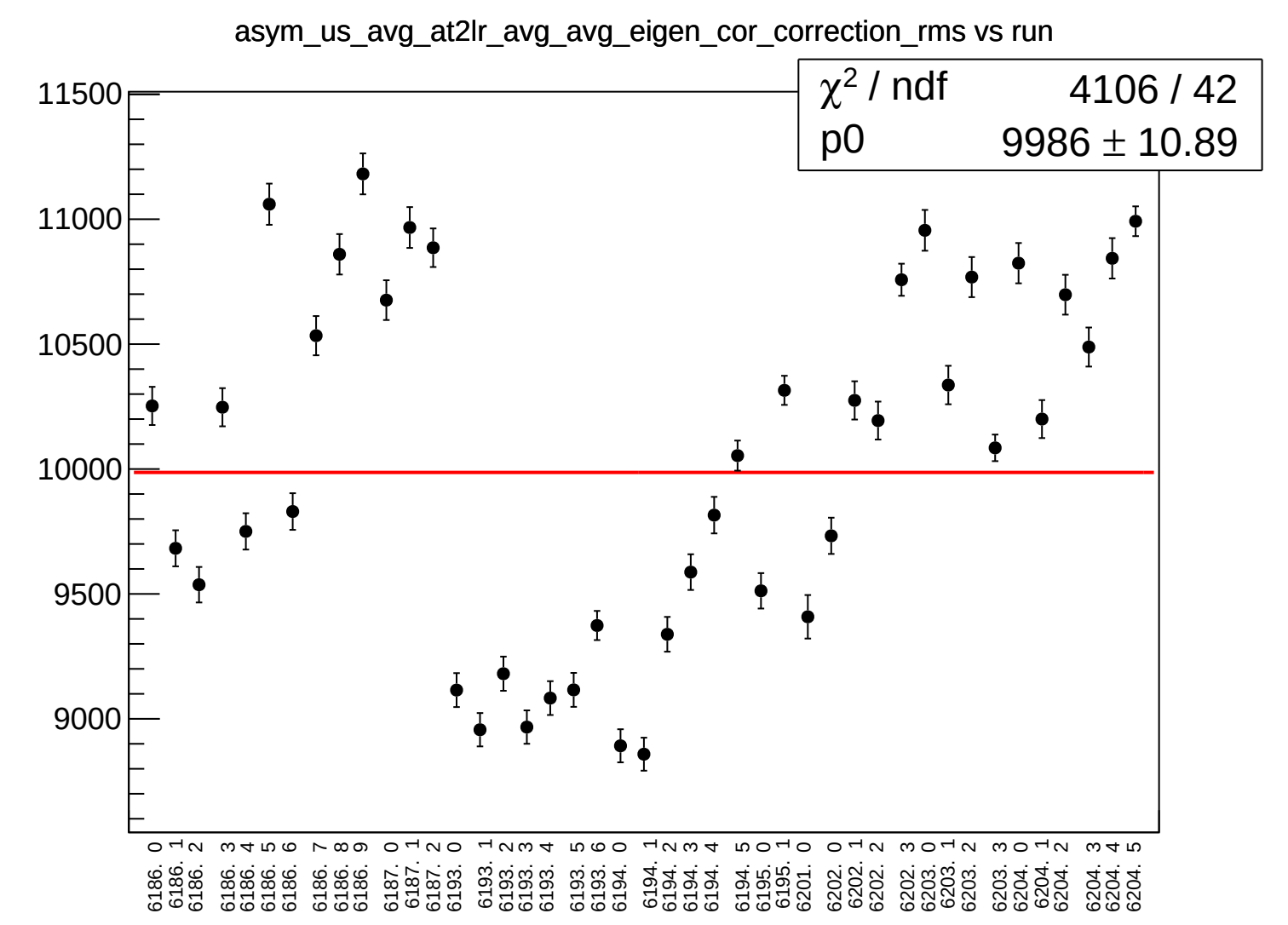
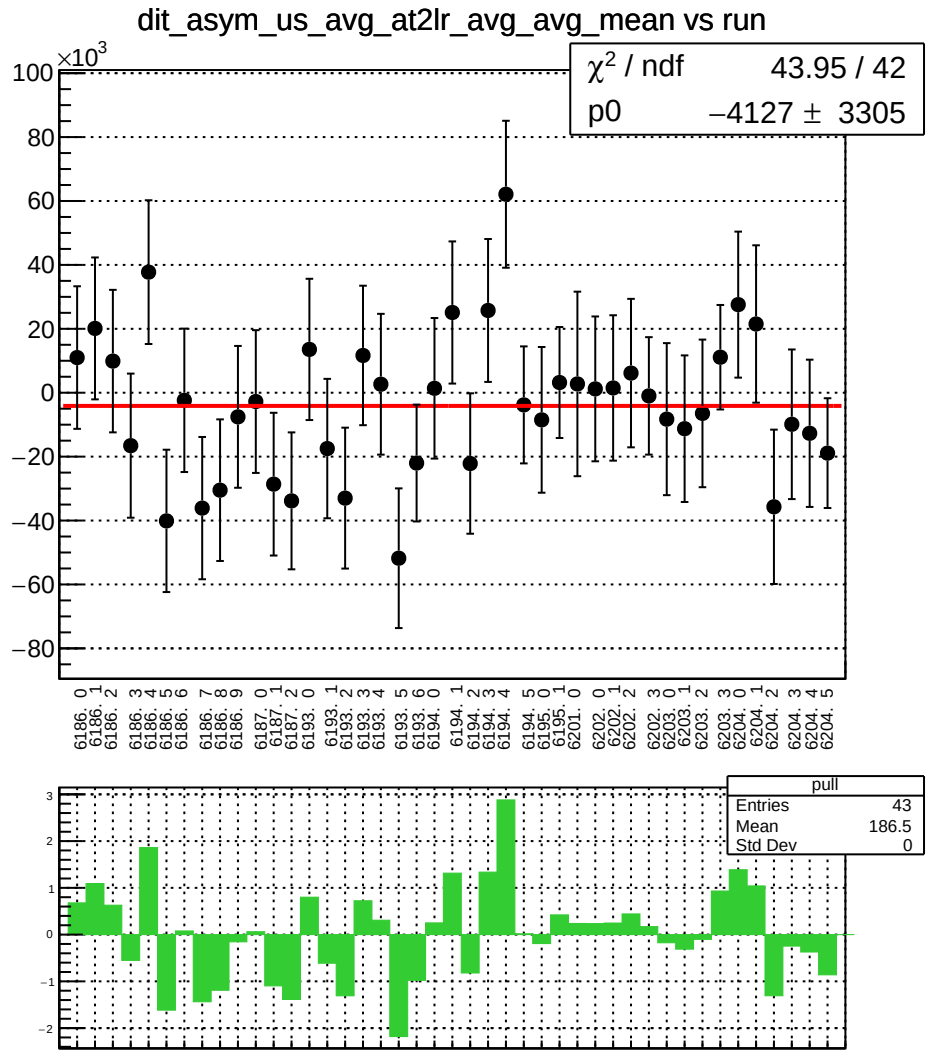
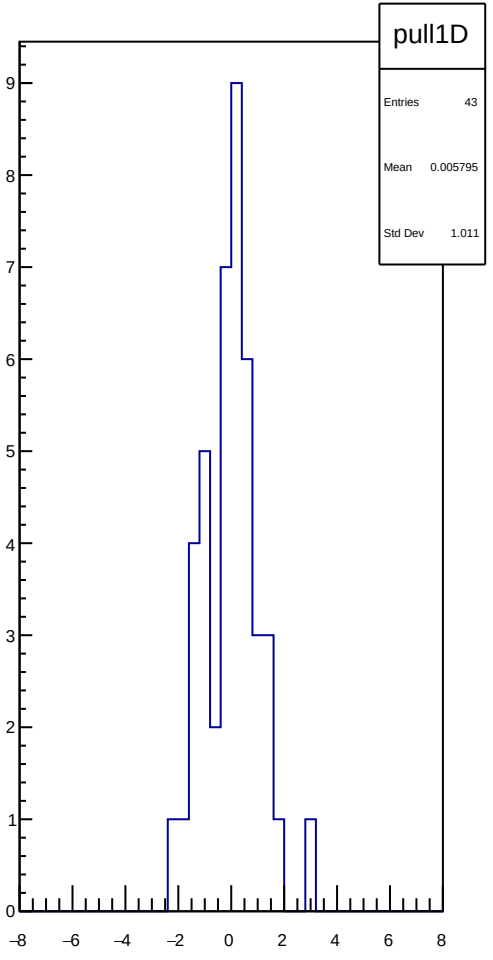
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

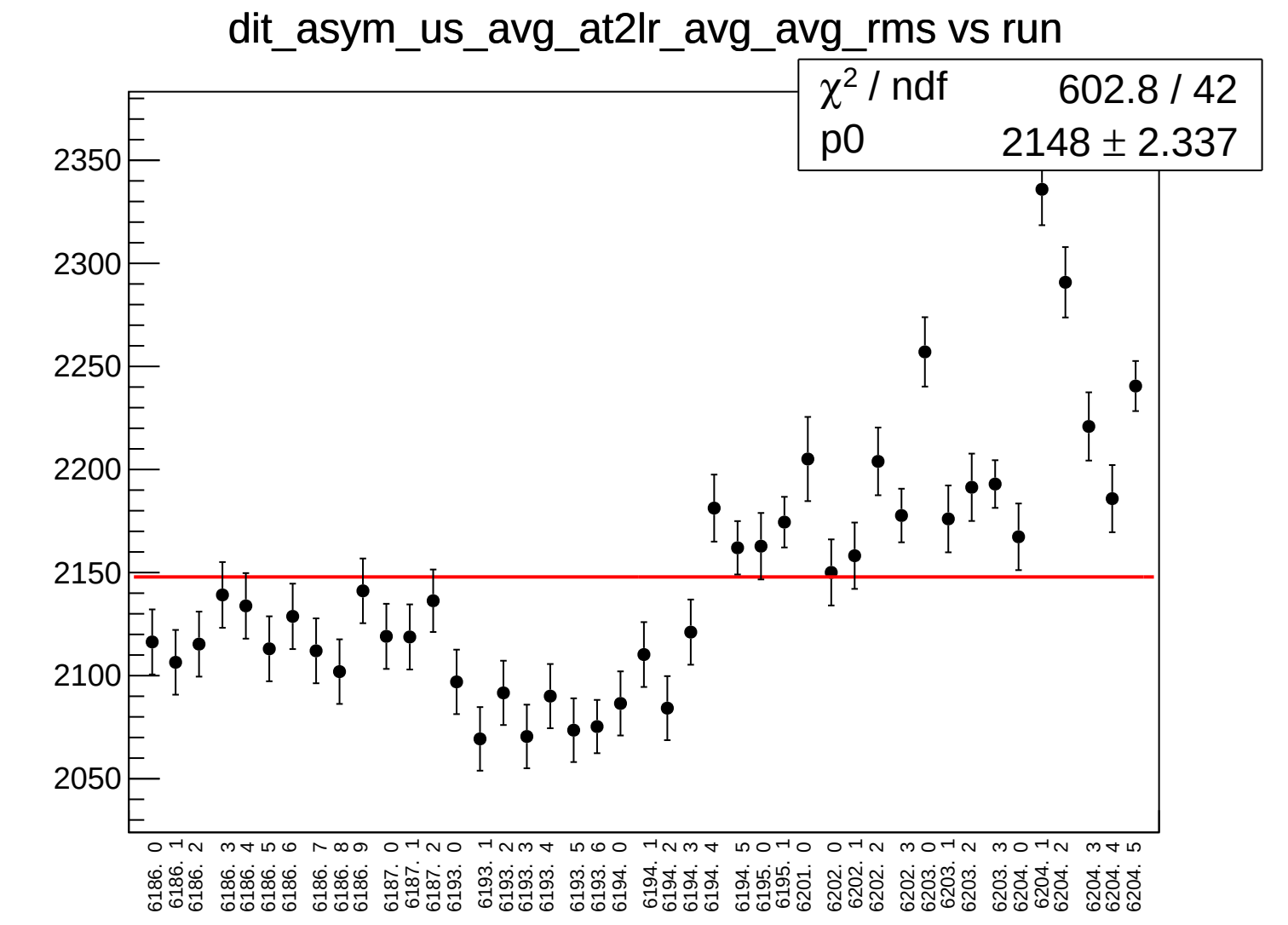

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 61.4 / 42
p0 1.424e+04 ± 1.54e+04
600
400
200
0
−200
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 184.8
Std Dev 0
4
3
2
1
0
−1
−2
−3

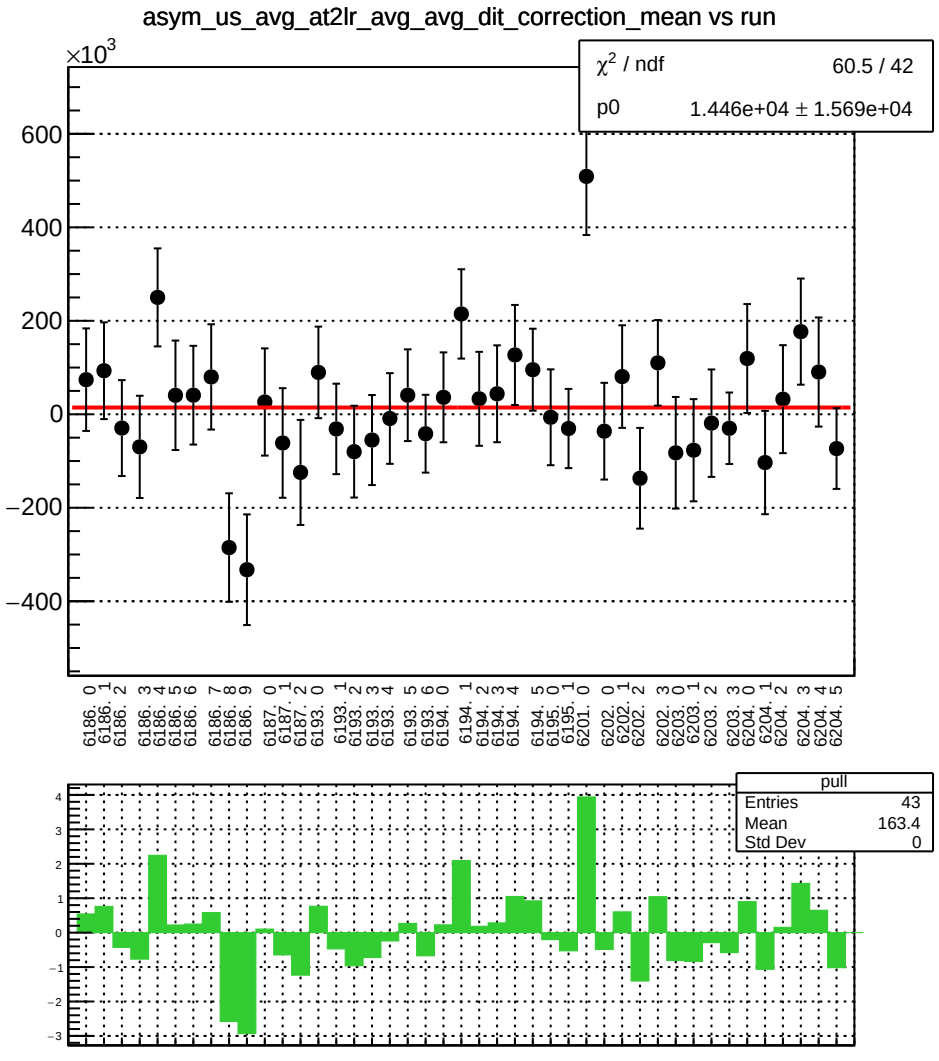

pull1D
Entries 43
Mean 0.006939
Std Dev 1.195
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

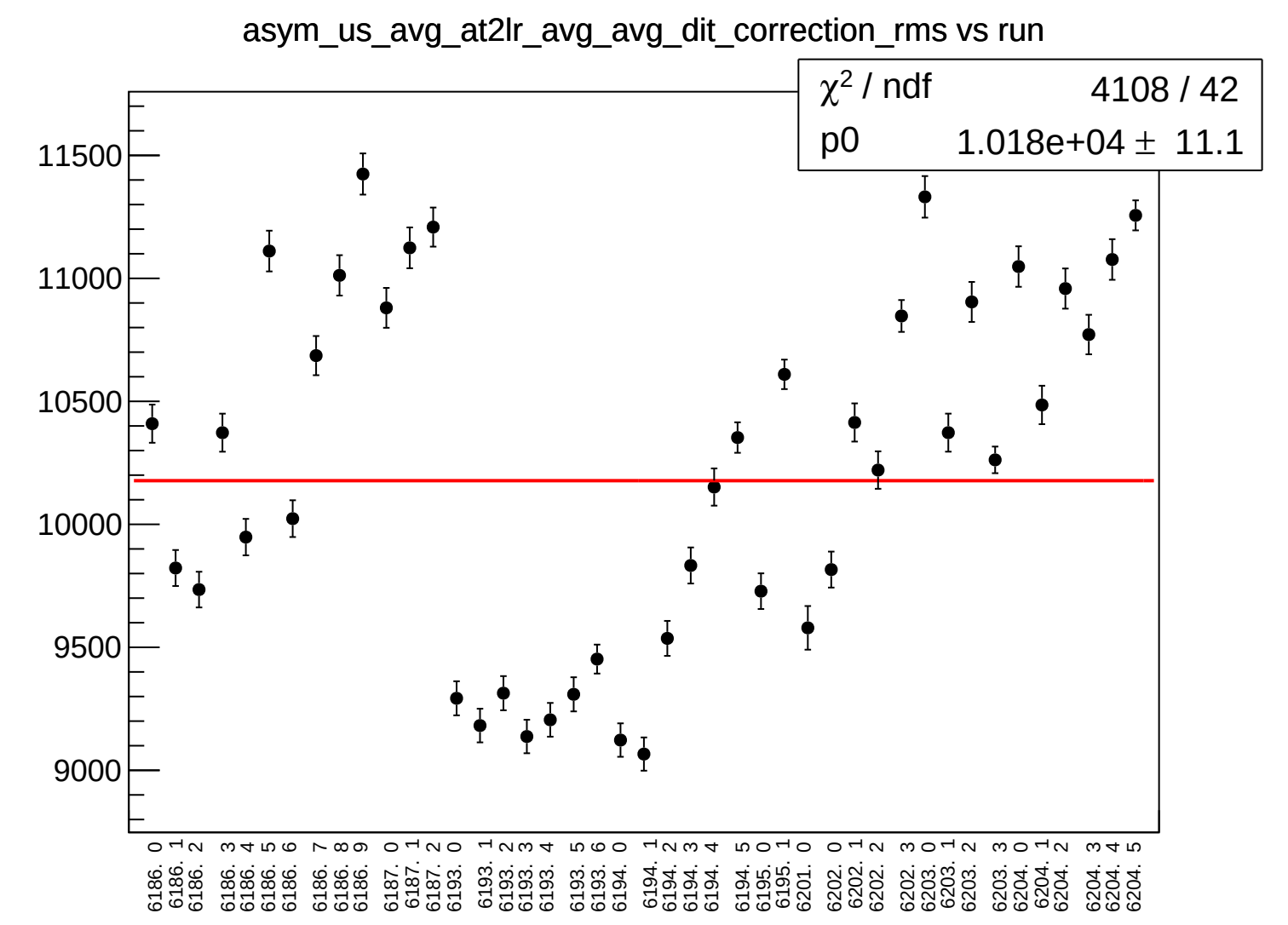

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4106 / 42
p0 9986 ± 10.89
11500
11000
10500
10000
9500
9000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

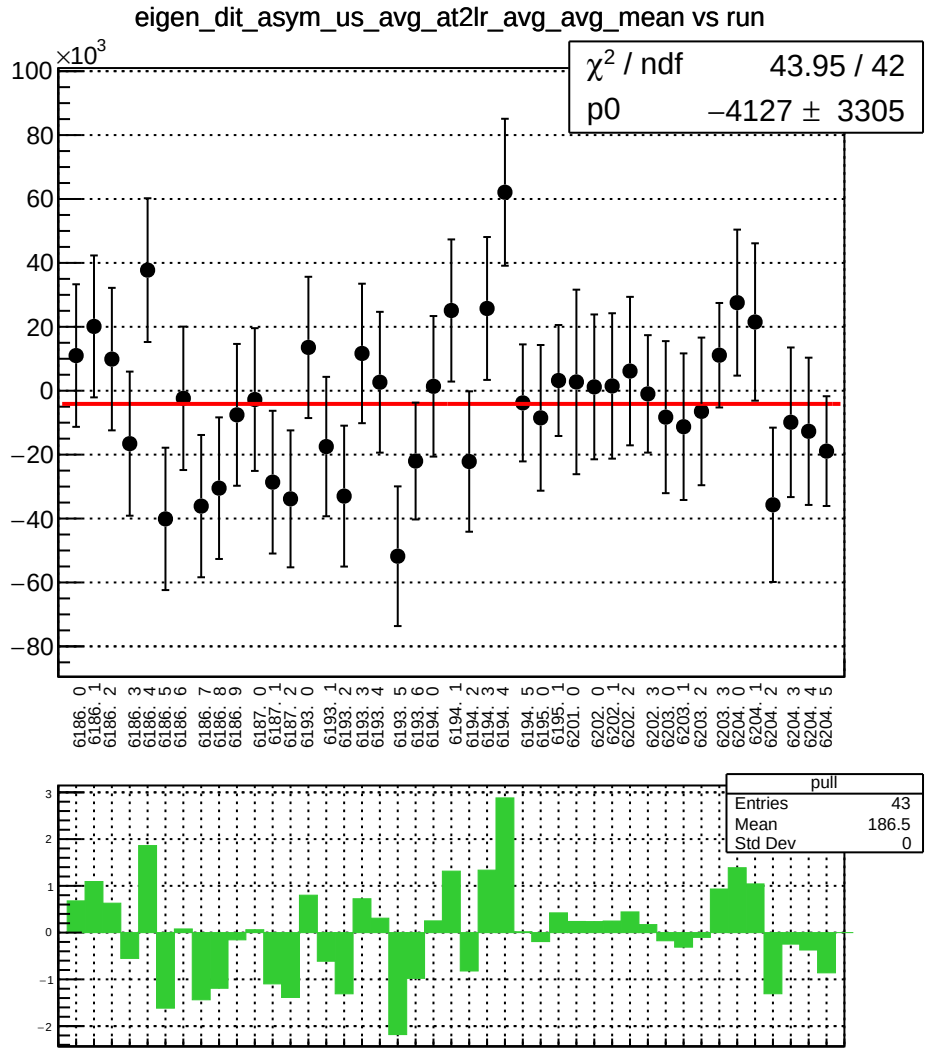

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 43.95 / 42
p0 −4127 ± 3305
×10³
pull
Entries 43
Mean 186.5
Std Dev 0

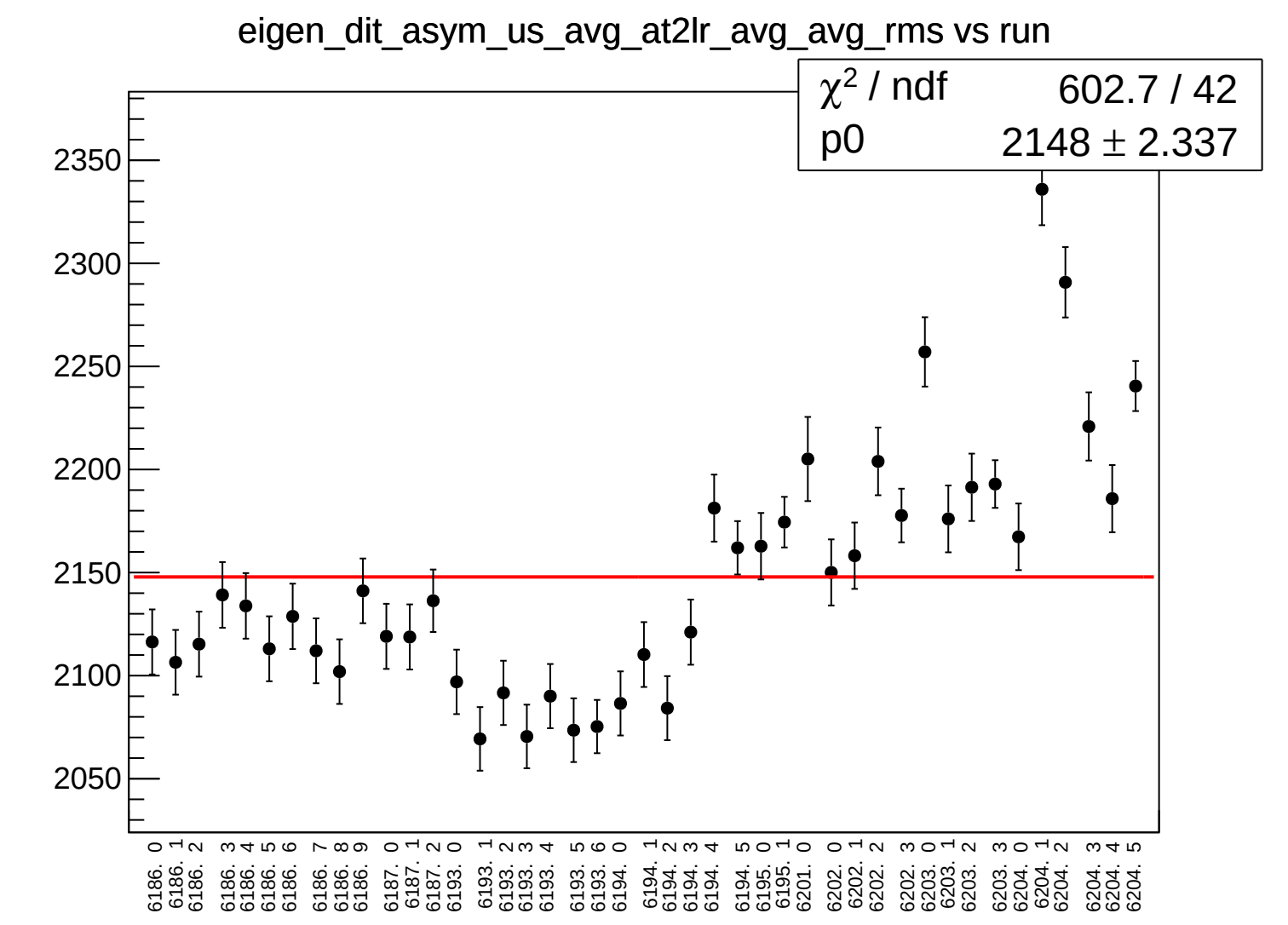

pull1D
Entries 43
Mean 0.005795
Std Dev 1.011

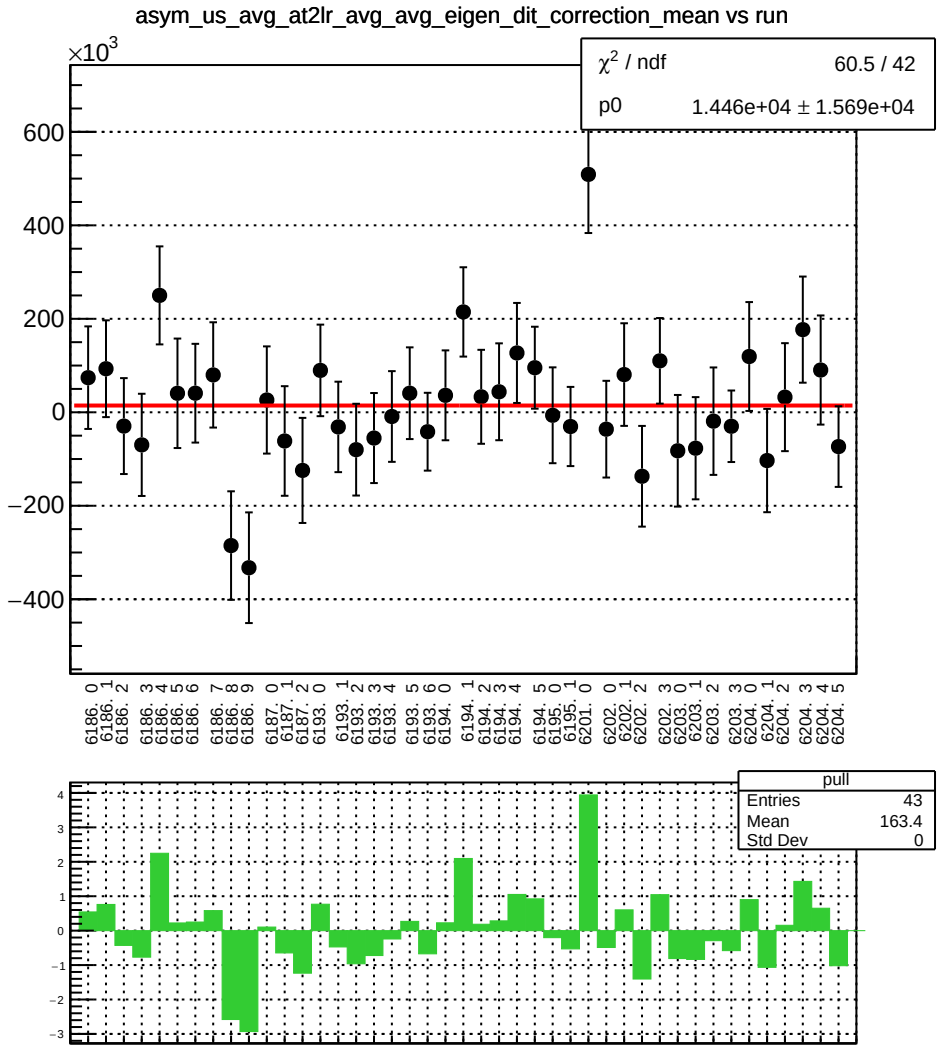

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 602.8 / 42
p0 2148 ± 2.337
2350
2300
2250
2200
2150
2100
2050
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

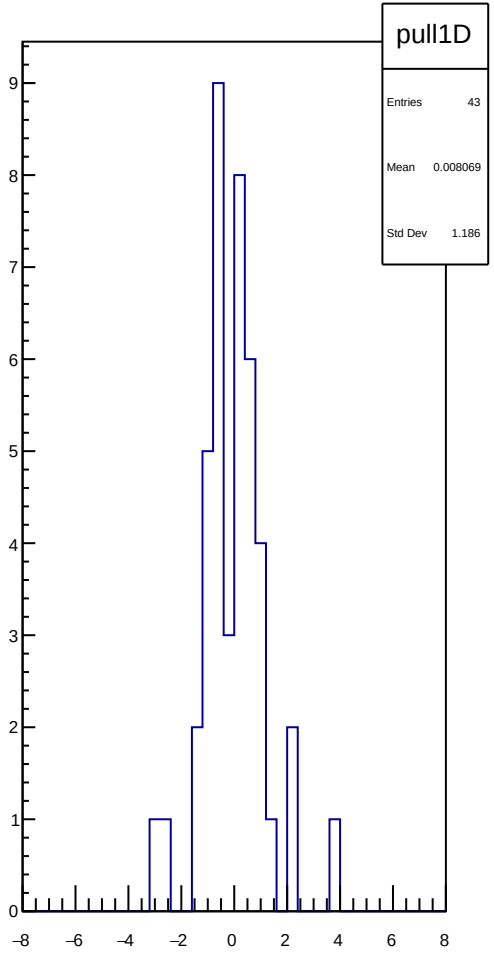

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 60.5 / 42
p0 1.446e+04 ± 1.569e+04
600
400
200
0
−200
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 163.4
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.008069
Std Dev 1.186
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

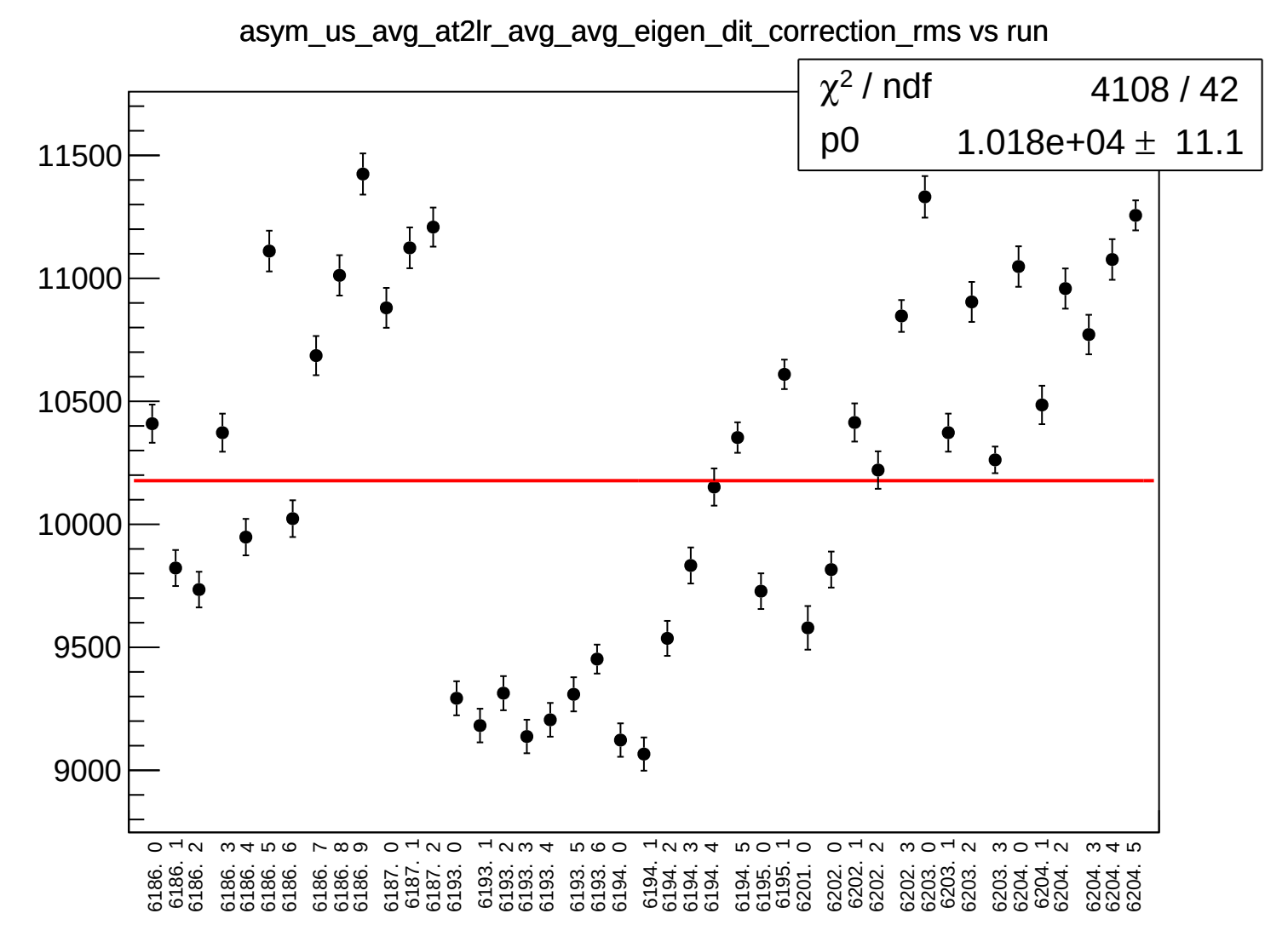

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 4108 / 42
p0 1.018e+04 ± 11.1
11500
11000
10500
10000
9500
9000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

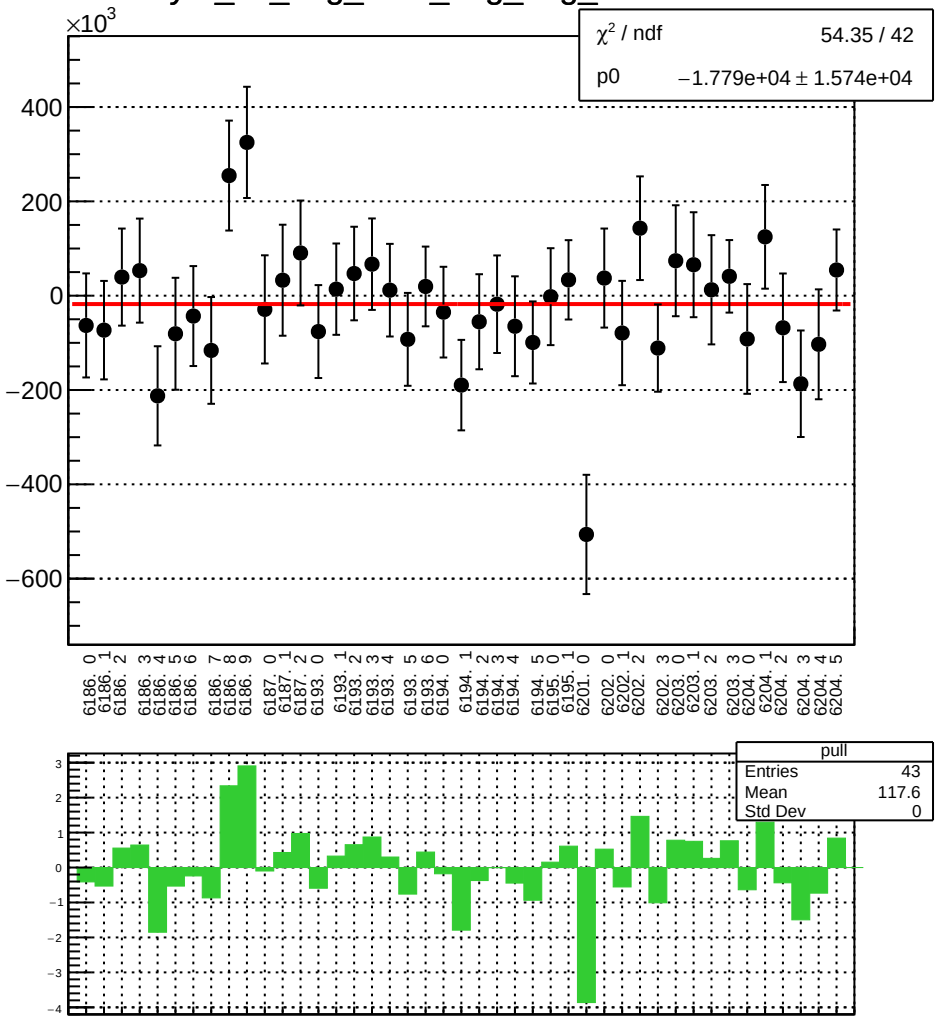

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 43.95 / 42
p0 −4127 ± 3305
100
80
60
40
20
0
−20
−40
−60
−80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 186.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.005794
Std Dev 1.011
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

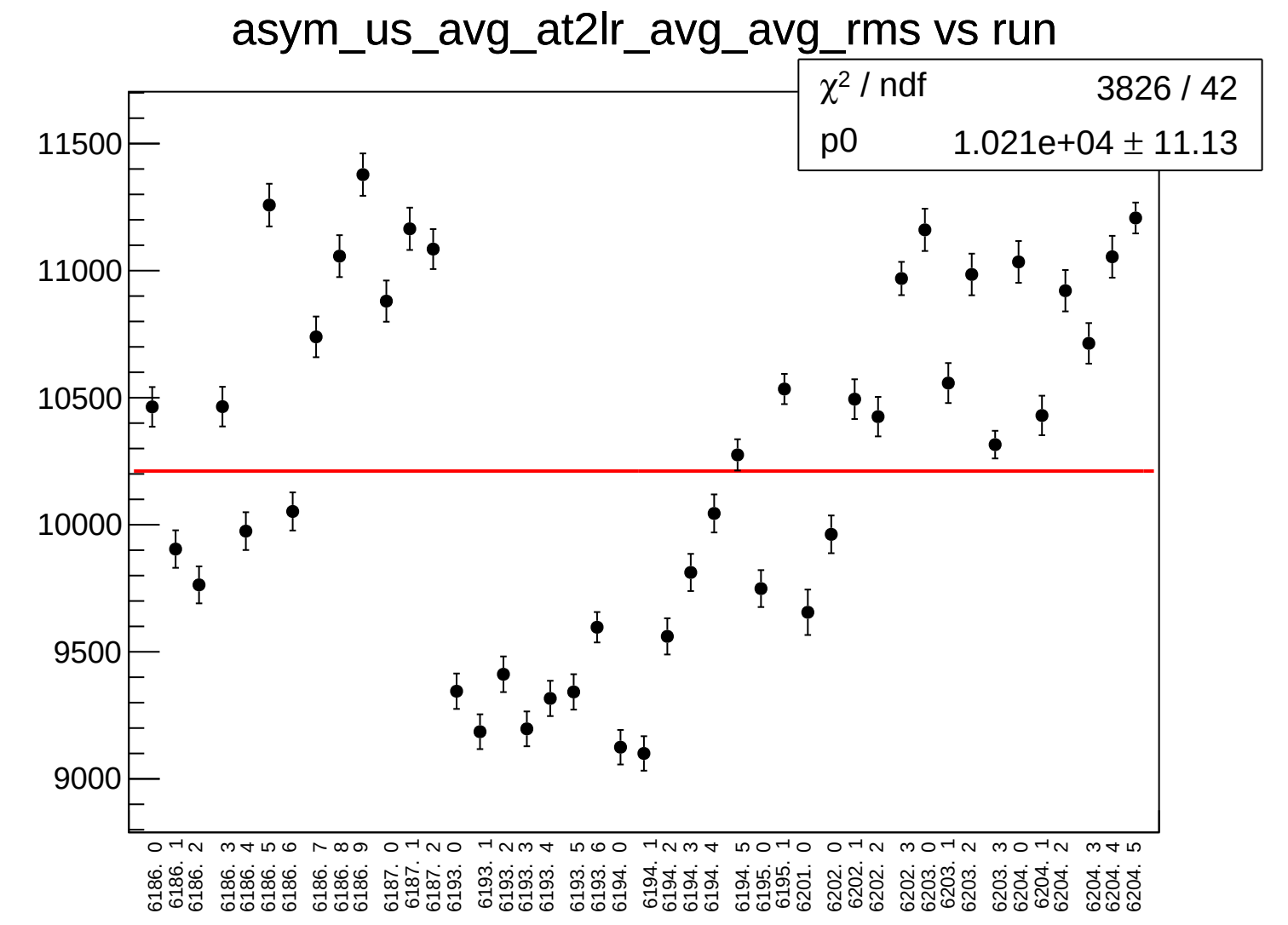

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 602.7 / 42
p0 2148 ± 2.337
2350
2300
2250
2200
2150
2100
2050
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

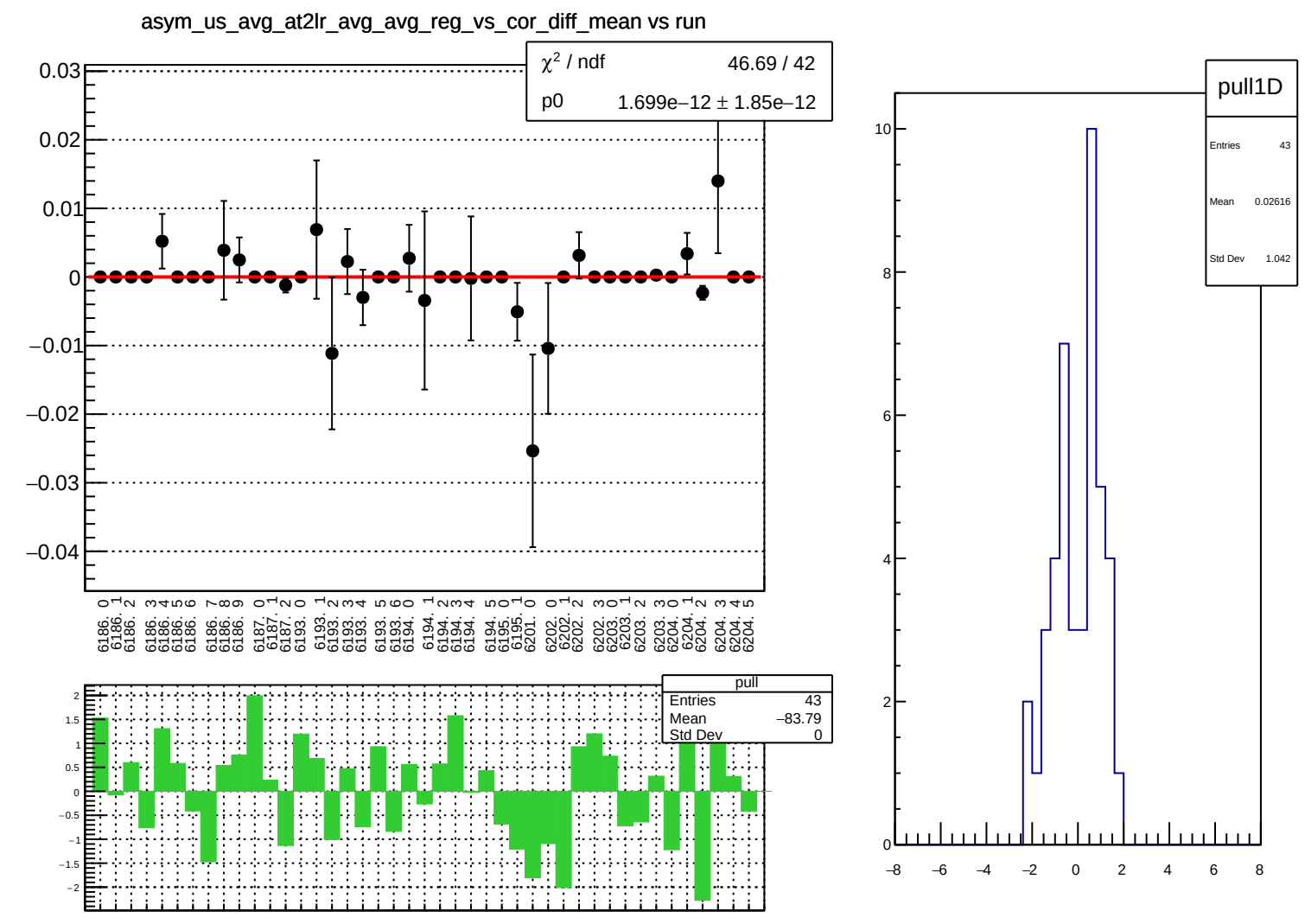

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 60.5 / 42
p0 1.446e+04 ± 1.569e+04
600
400
200
0
−200
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 163.4
Std Dev 0
4
3
2
1
0
−1
−2
−3

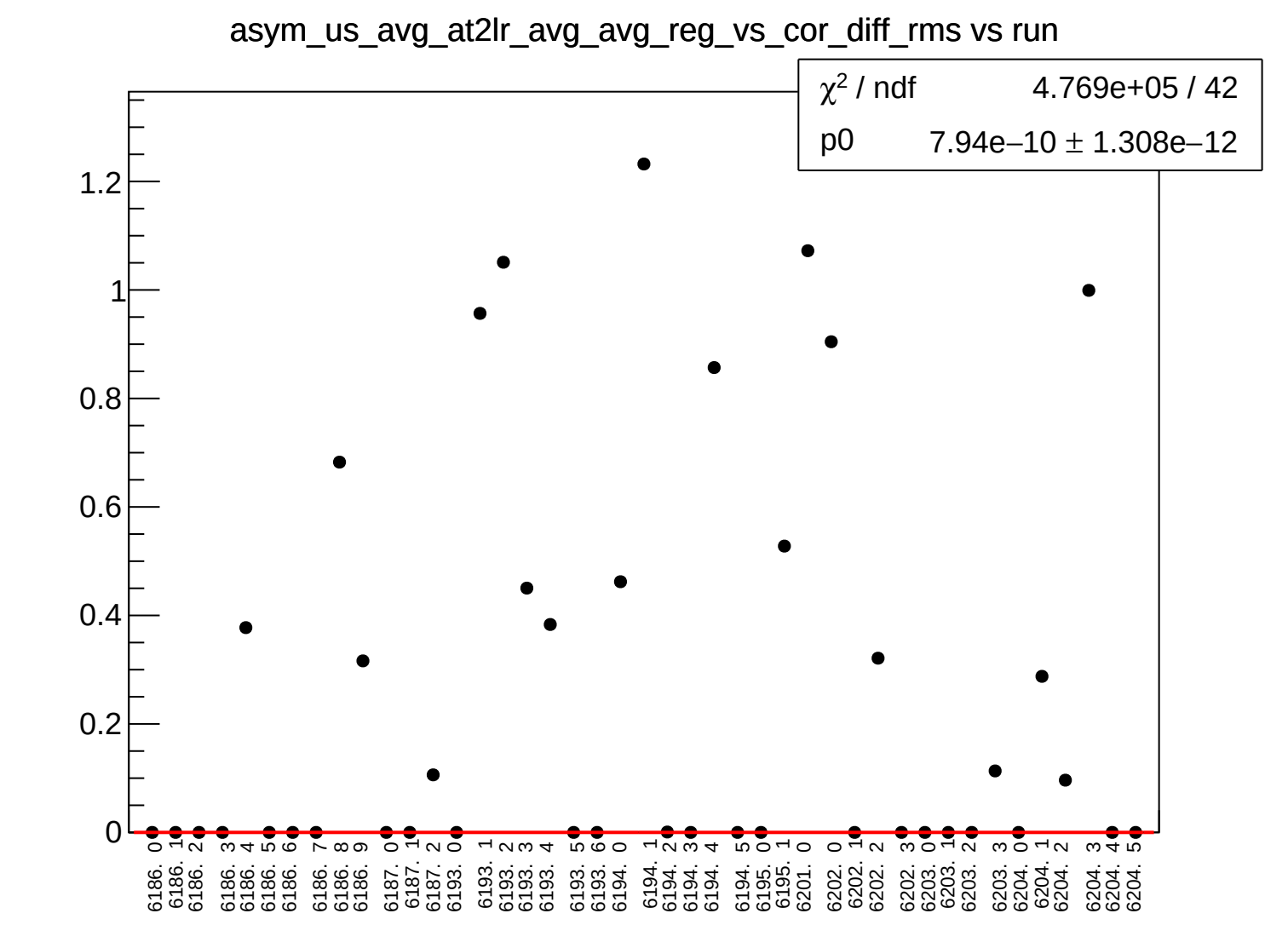

pull1D
Entries 43
Mean 0.008069
Std Dev 1.186
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

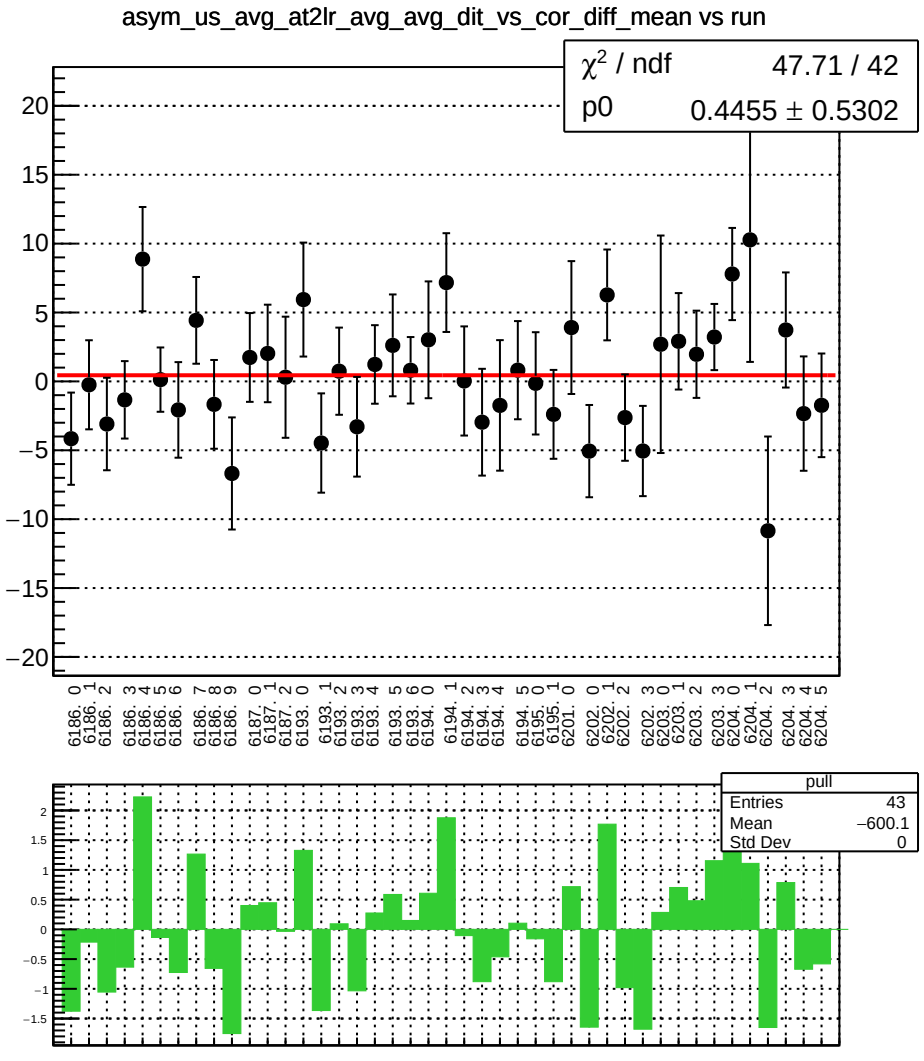

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4108 / 42
p0 1.018e+04 ± 11.1
11500
11000
10500
10000
9500
9000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

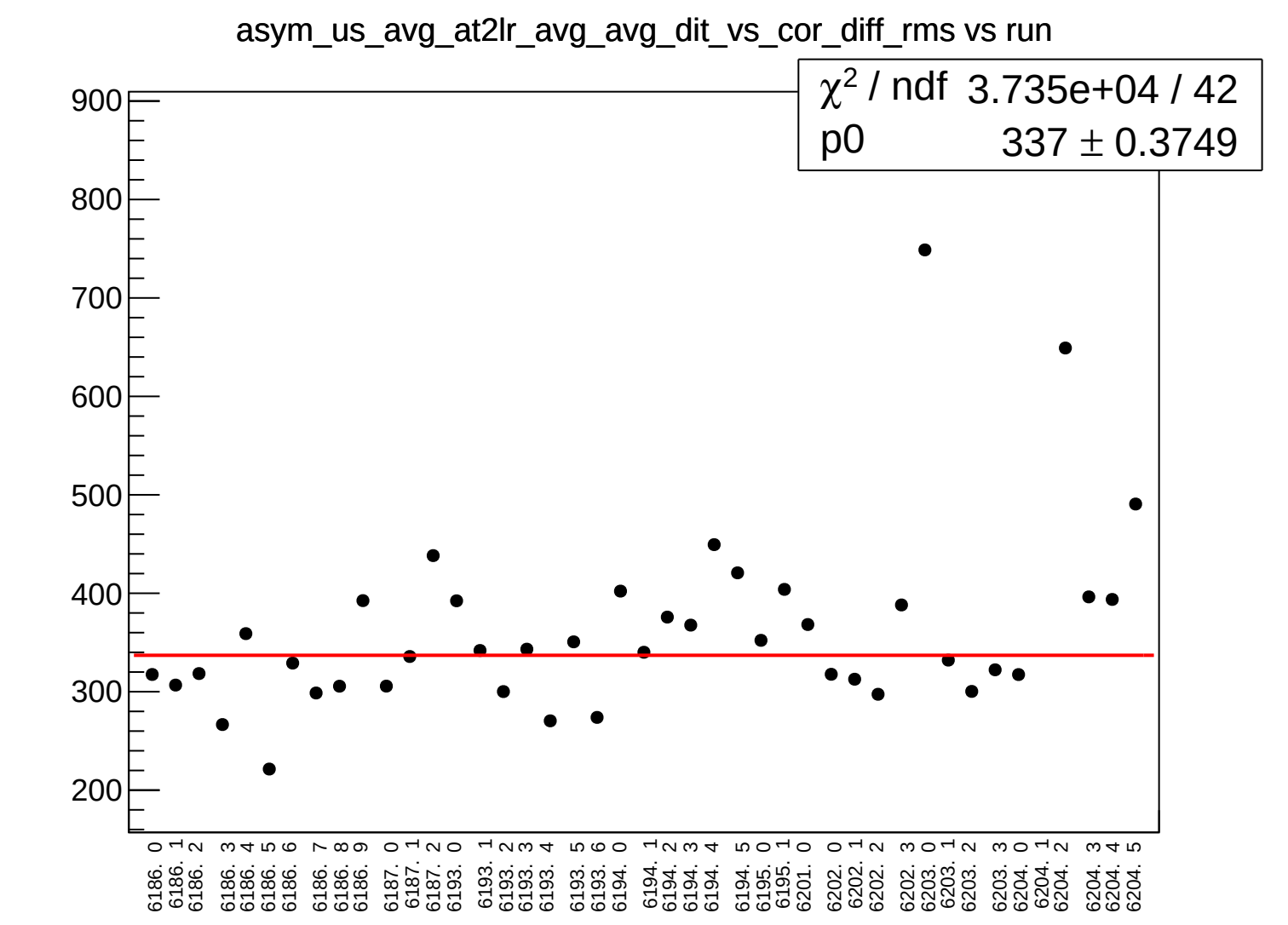

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 54.35 / 42
p0 −1.779e+04 ± 1.574e+04
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 117.6
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.01026
Std Dev 1.124
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

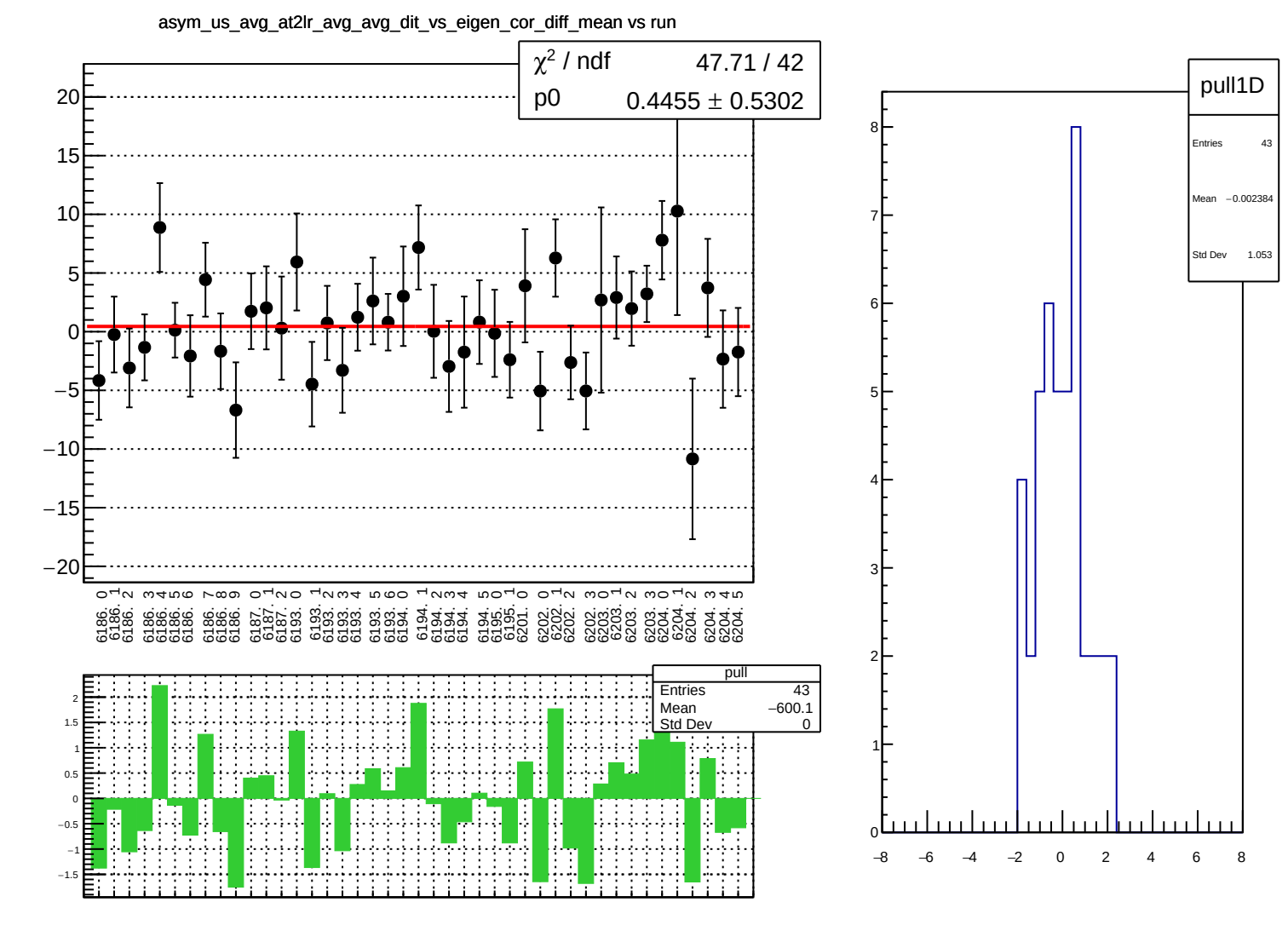

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3826 / 42
p0 1.021e+04 ± 11.13
11500
11000
10500
10000
9500
9000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

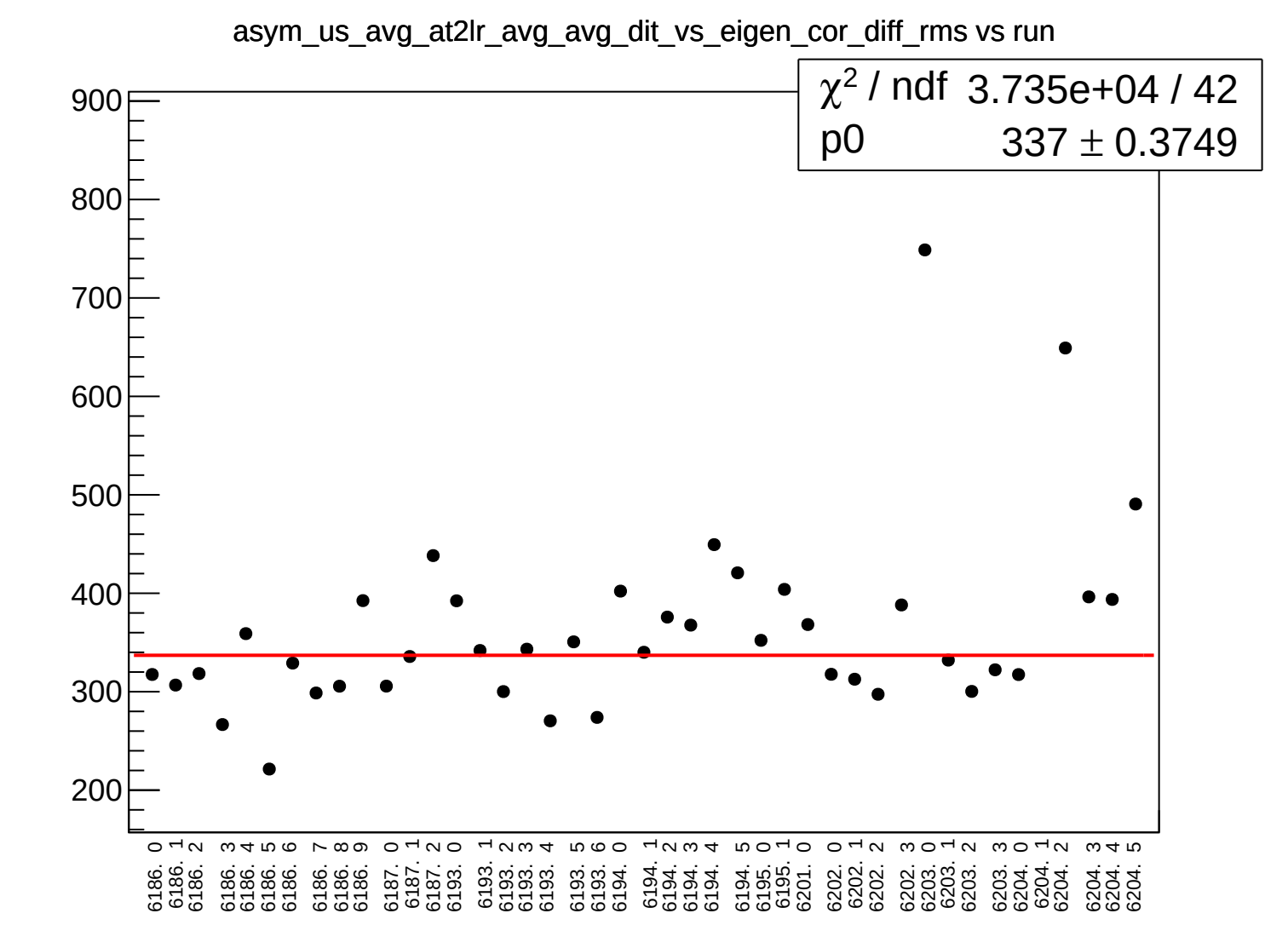

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 46.69 / 42
p0 1.699e−12 ± 1.85e−12
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −83.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02616
Std Dev 1.042
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

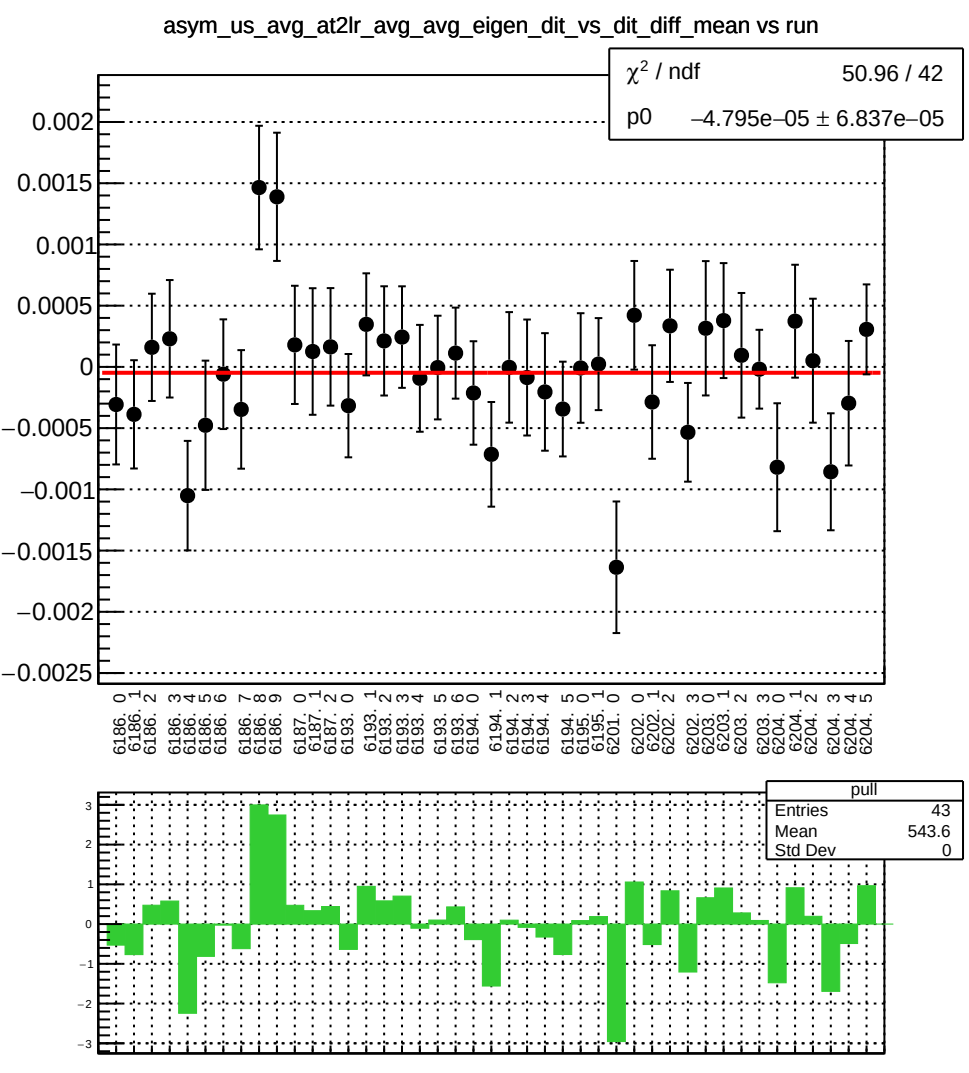

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.769e+05 / 42
p0 7.94e−10 ± 1.308e−12
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

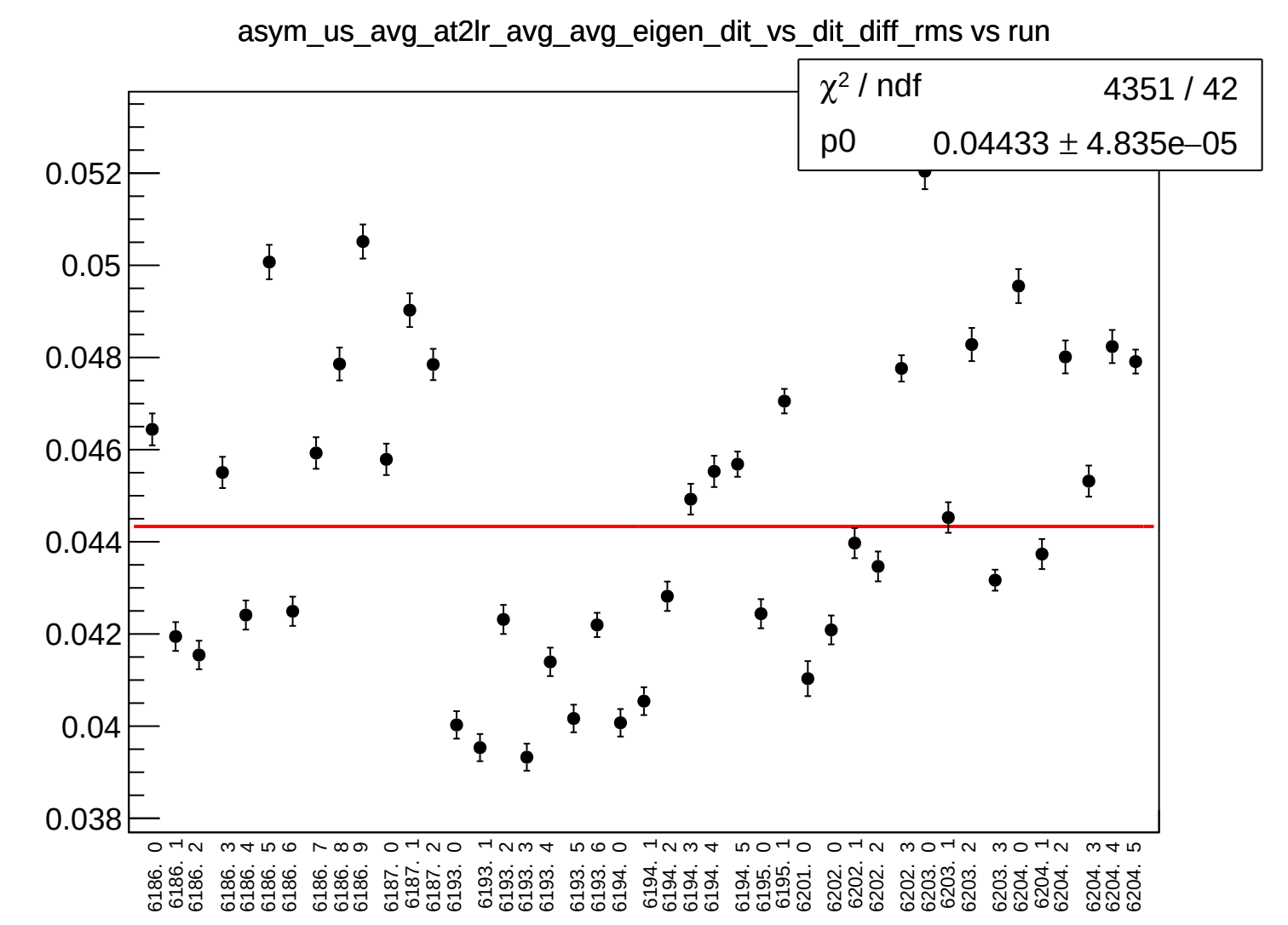

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 47.71 / 42
p0 0.4455 ± 0.5302
pull
Entries 43
Mean −600.1
Std Dev 0
pull1D
Entries 43
Mean −0.002384
Std Dev 1.053

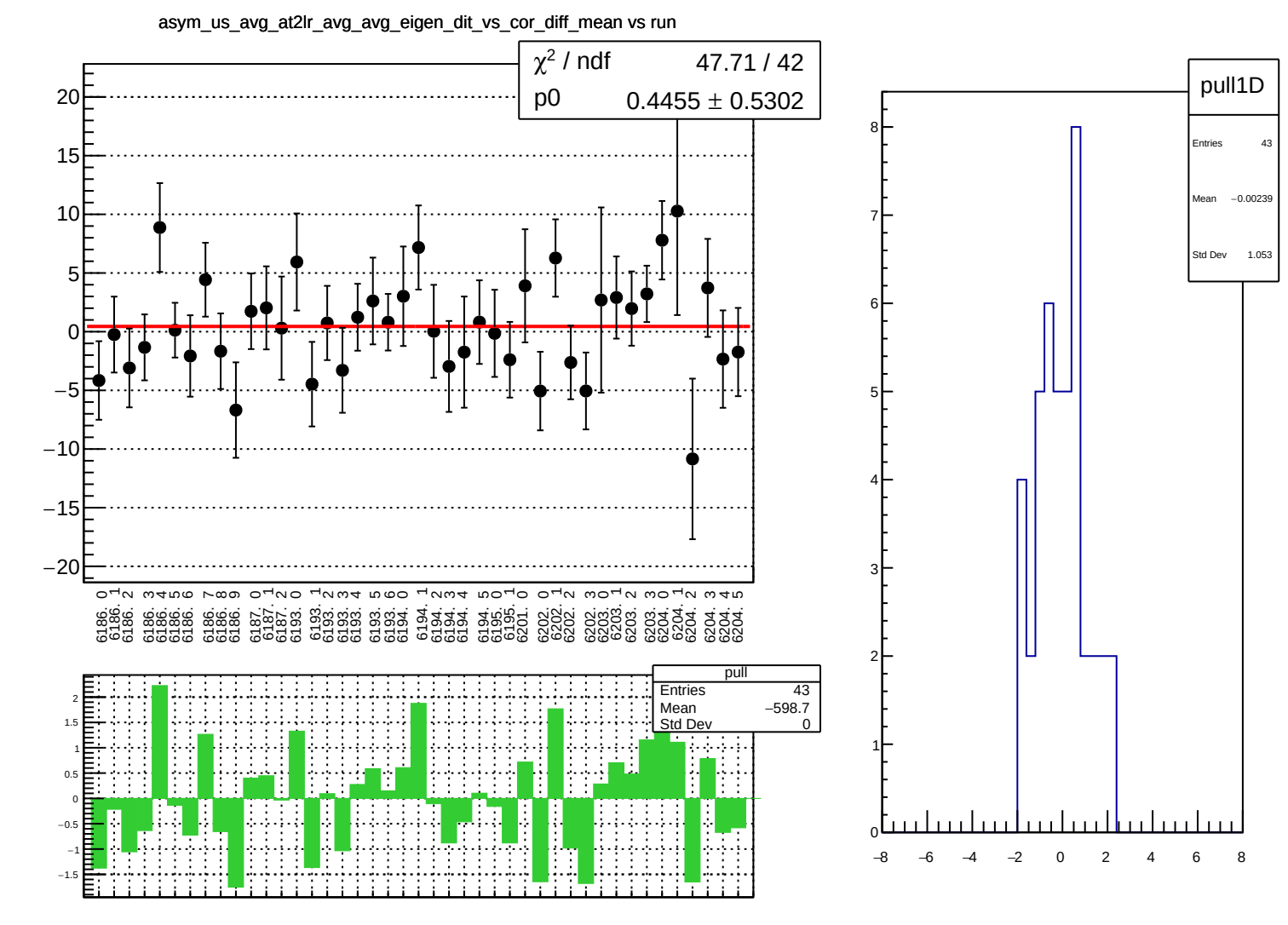

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.735e+04 / 42
p0 337 ± 0.3749
900
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

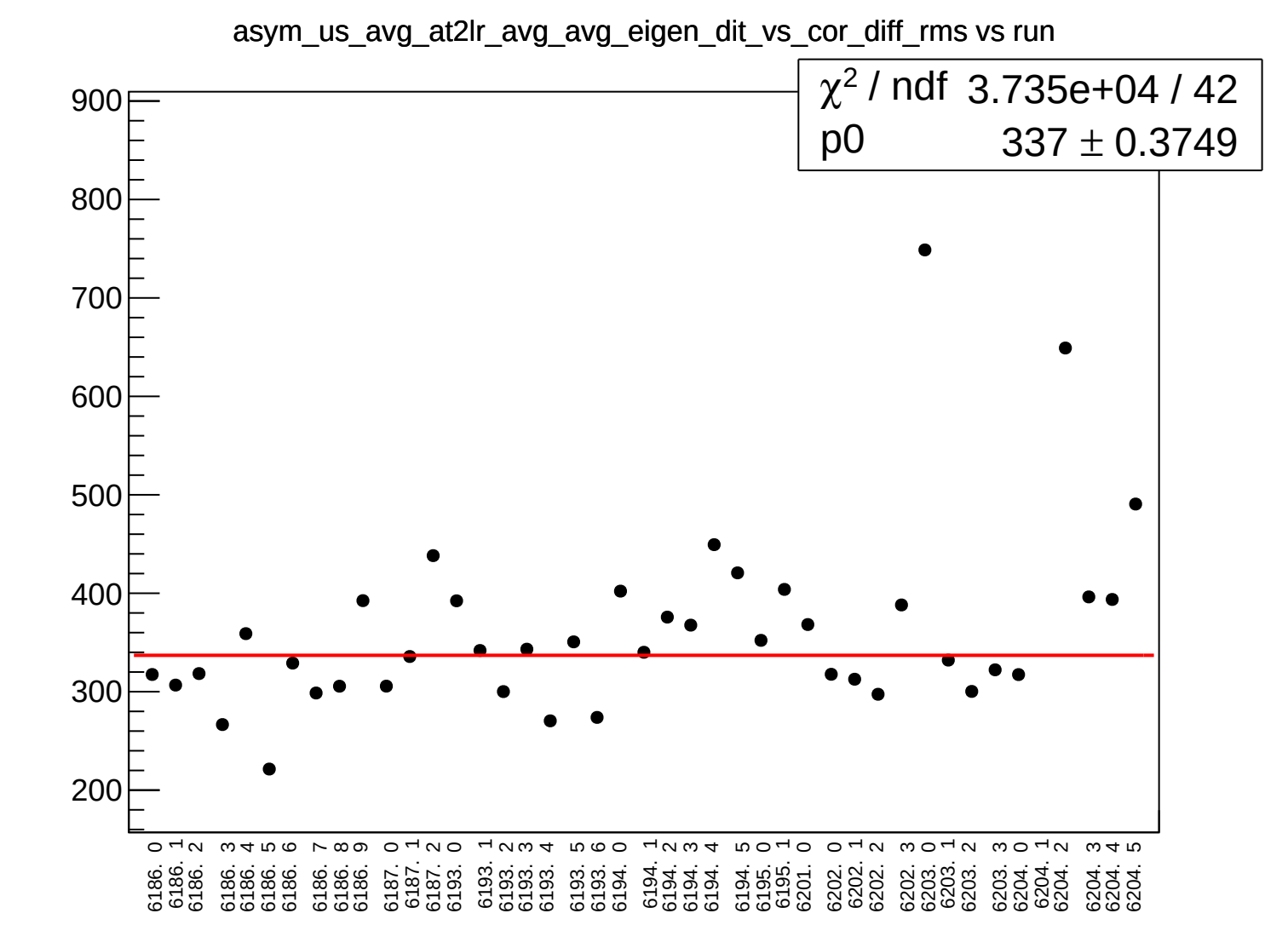

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.71 / 42
p0 0.4455 ± 0.5302
pull
Entries 43
Mean −600.1
Std Dev 0
pull1D
Entries 43
Mean −0.002384
Std Dev 1.053

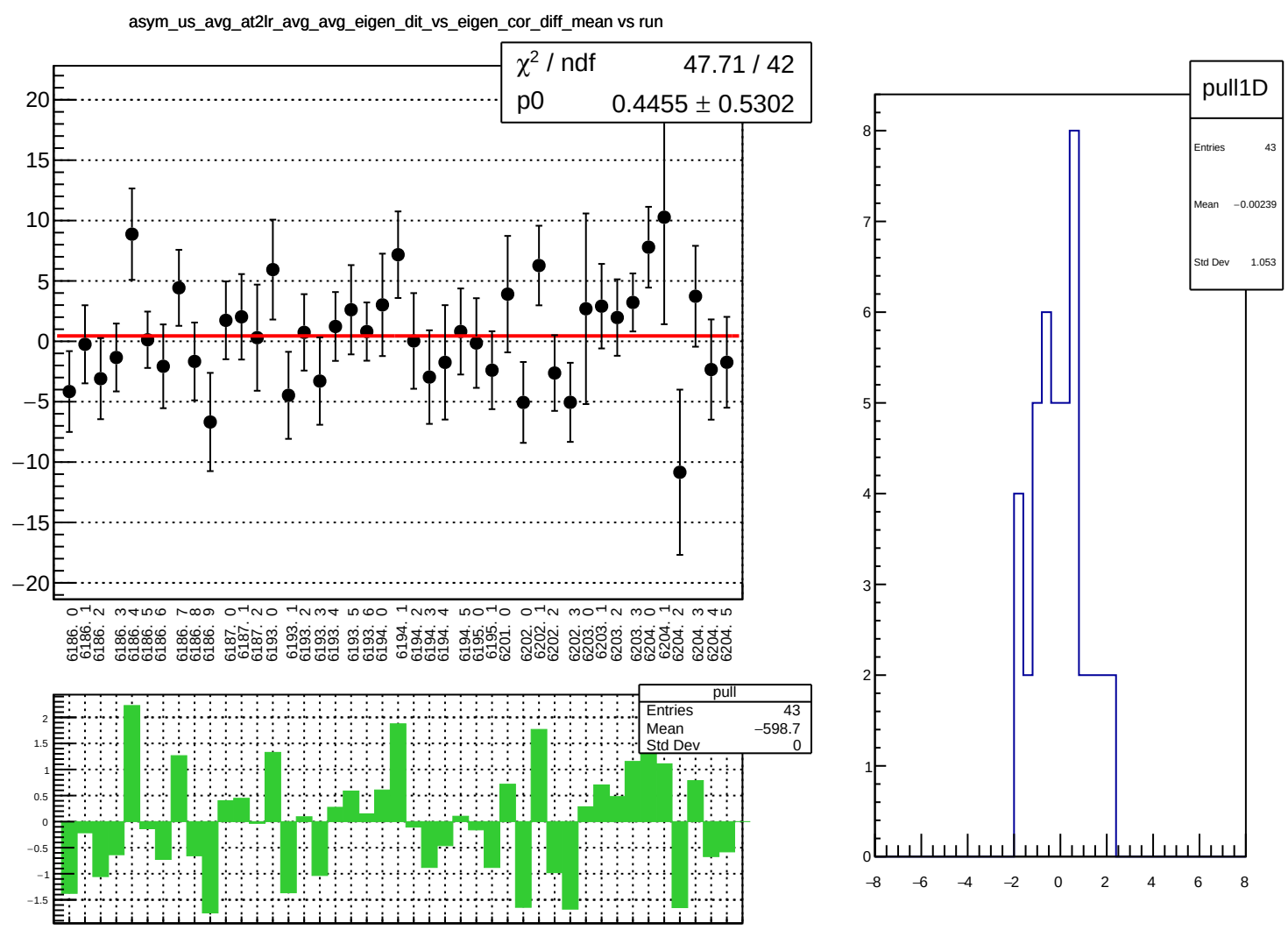

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.735e+04 / 42
p0 337 ± 0.3749
900
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

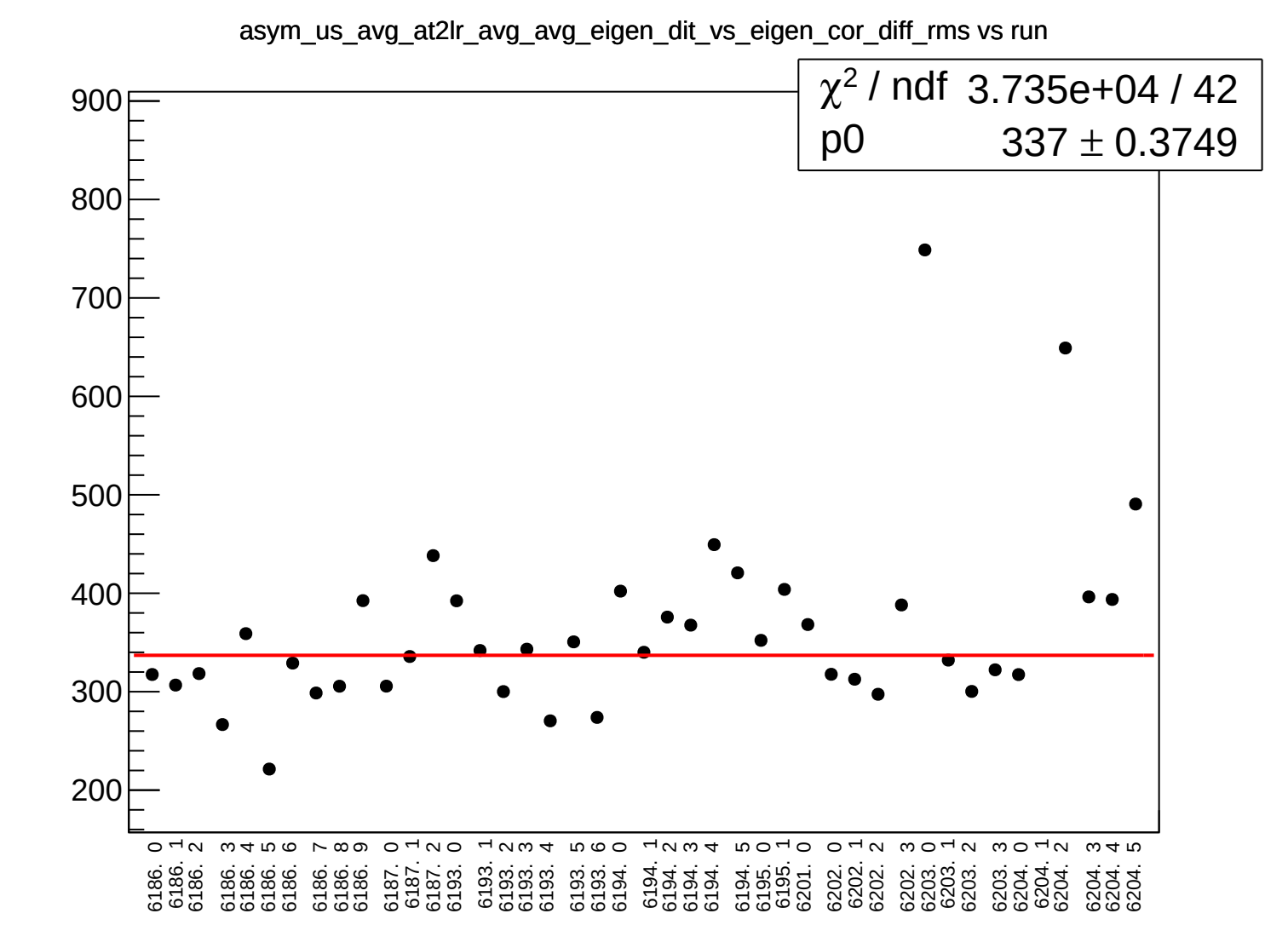

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 50.96 / 42
p0 −4.795e−05 ± 6.837e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 543.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.002301
Std Dev 1.089
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4351 / 42
p0 0.04433 ± 4.835e−05
0.052
0.05
0.048
0.046
0.044
0.042
0.04
0.038
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.71 / 42
p0 0.4455 ± 0.5302
pull
Entries 43
Mean −598.7
Std Dev 0
pull1D
Entries 43
Mean −0.00239
Std Dev 1.053


asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.735e+04 / 42
p0 337 ± 0.3749
900
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.71 / 42
p0 0.4455 ± 0.5302
pull
Entries 43
Mean −598.7
Std Dev 0
pull1D
Entries 43
Mean −0.00239
Std Dev 1.053


asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.735e+04 / 42
p0 337 ± 0.3749
900
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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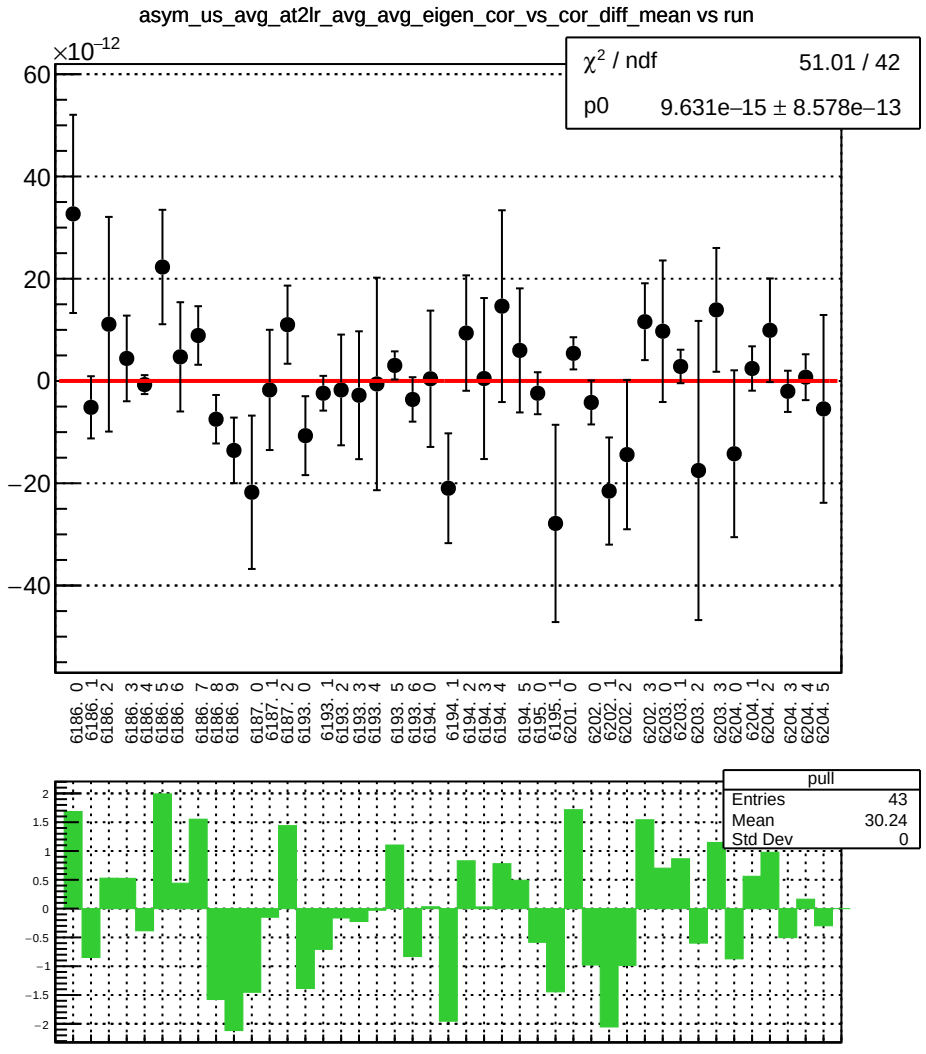
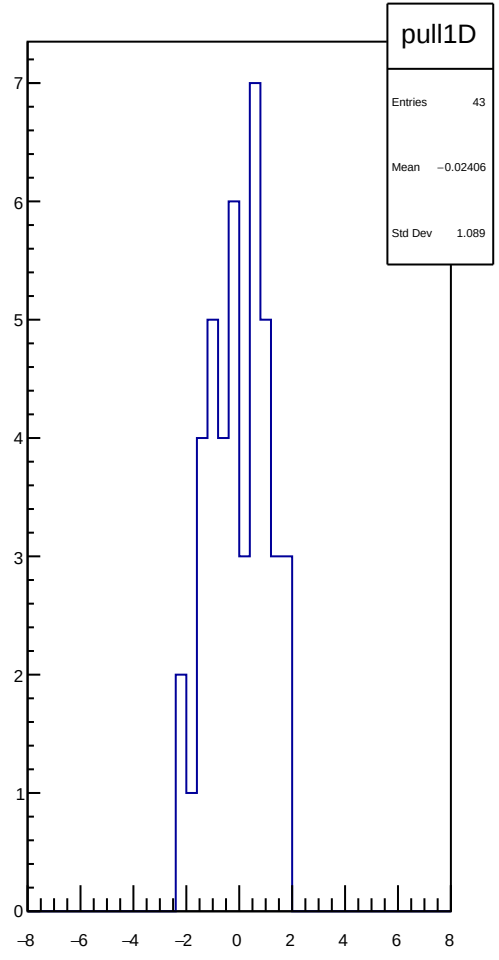
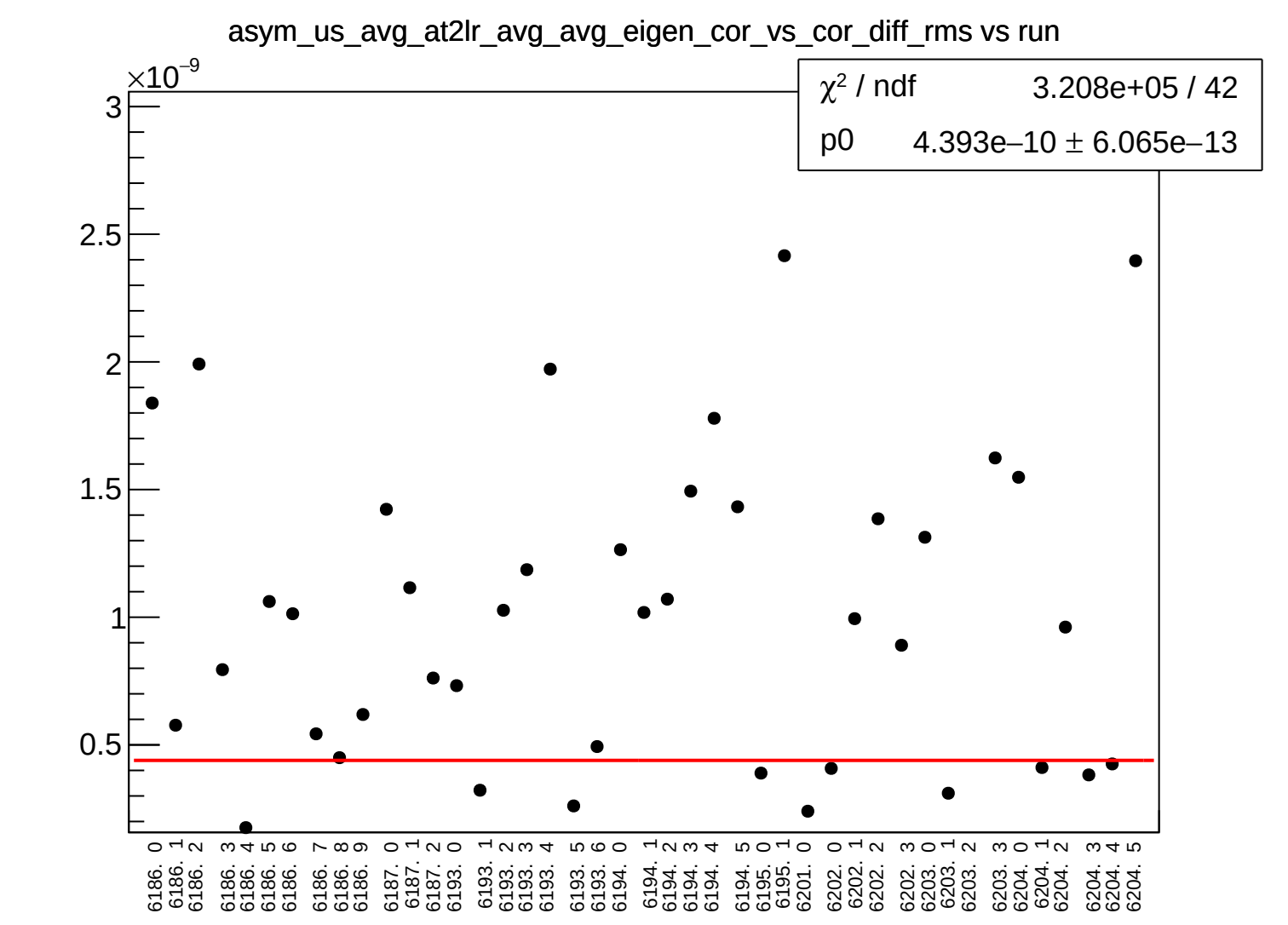
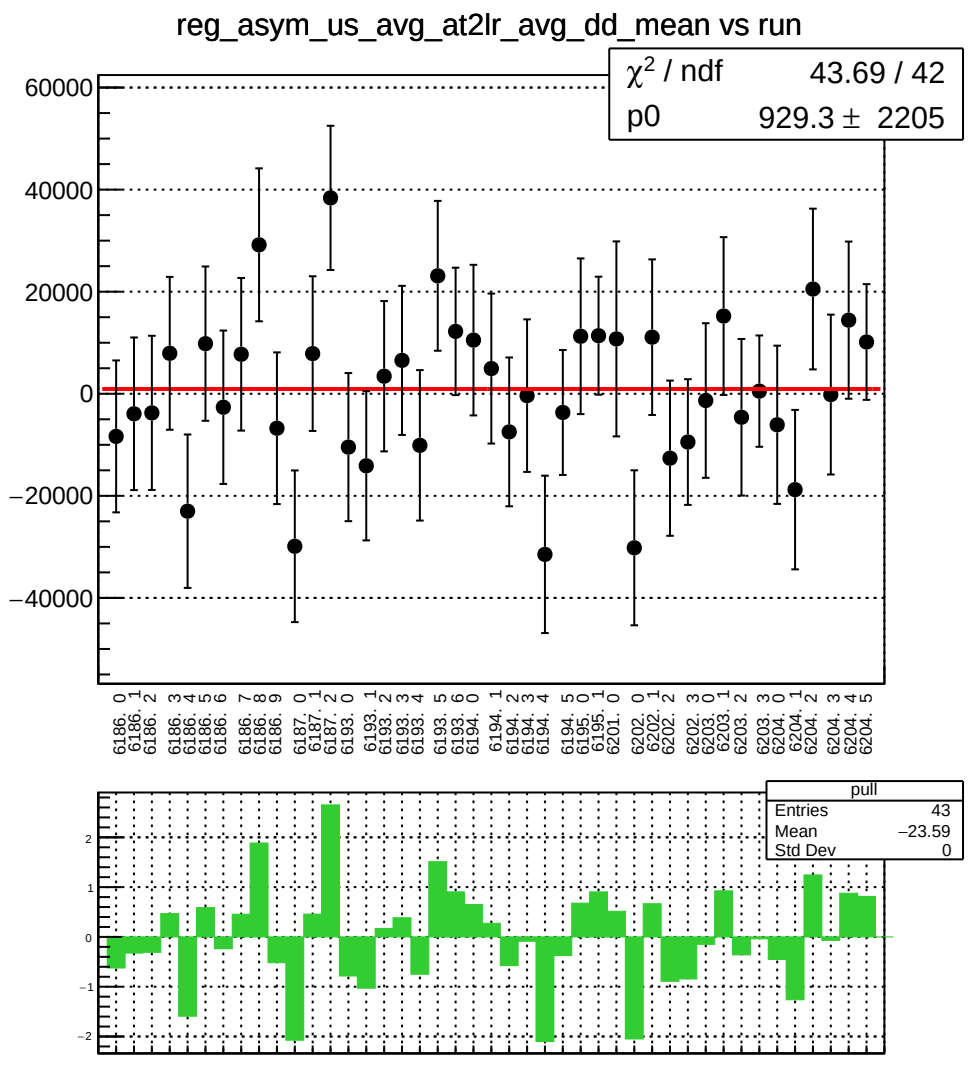
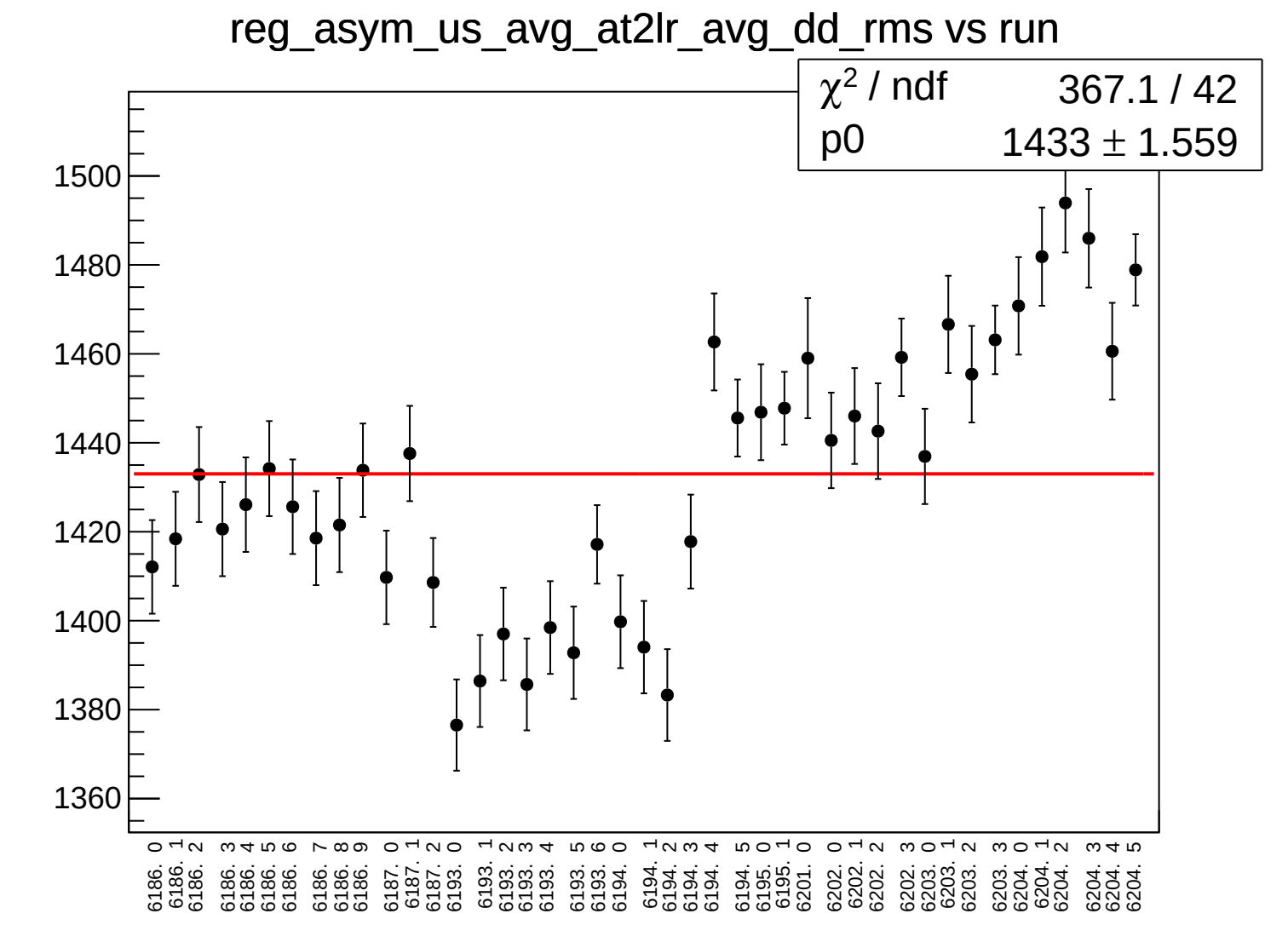
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 51.01 / 42
p0 9.631e−15 ± 8.578e−13
pull
Entries 43
Mean 30.24
Std Dev 0


pull1D
Entries 43
Mean −0.02406
Std Dev 1.089


asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.208e+05 / 42
p0 4.393e−10 ± 6.065e−13
3
2.5
2
1.5
1
0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 43.69 / 42
p0 929.3 ± 2205
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −23.59
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01103
Std Dev 1.008
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_rms vs run
χ² / ndf 367.1 / 42
p0 1433 ± 1.559
1500
1480
1460
1440
1420
1400
1380
1360
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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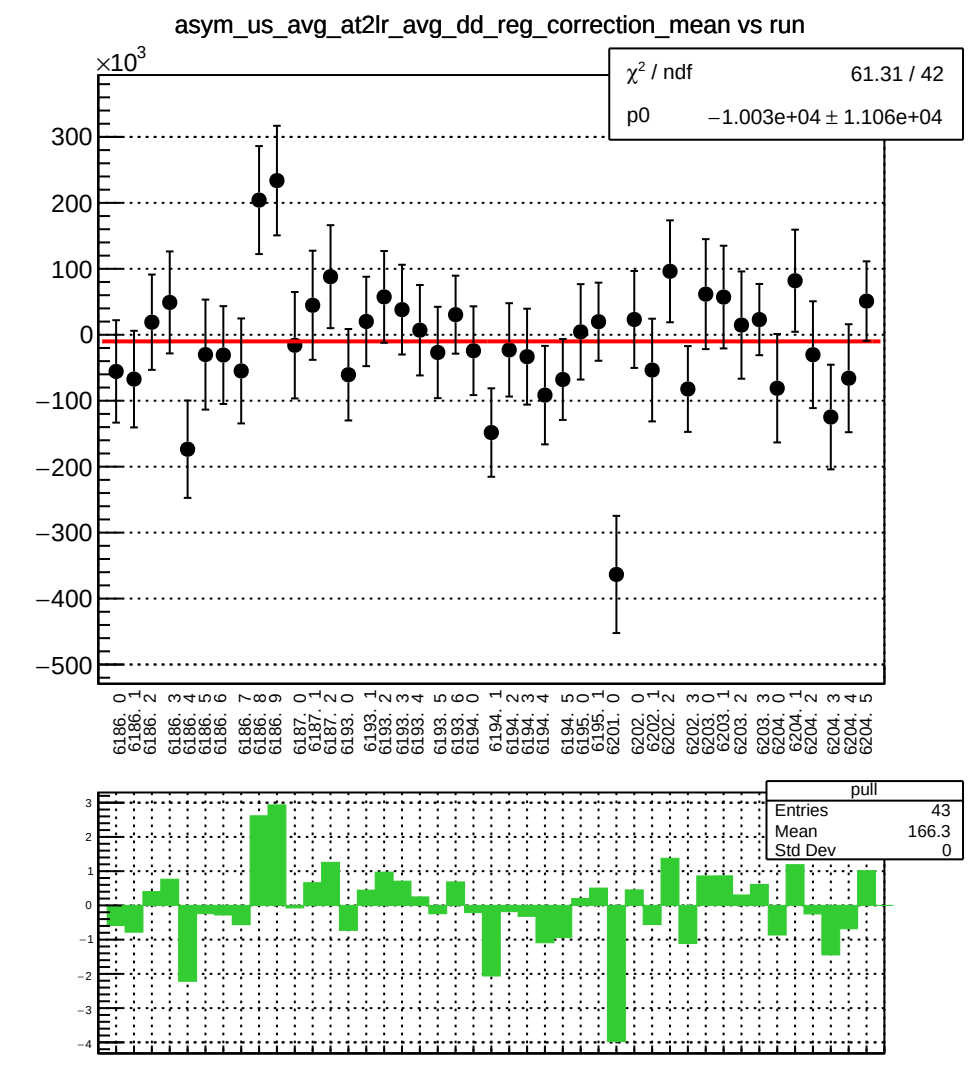
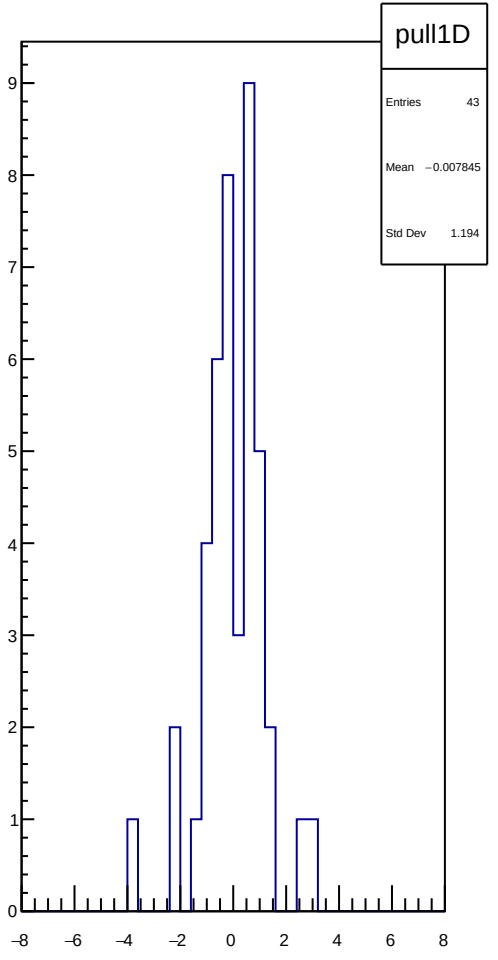
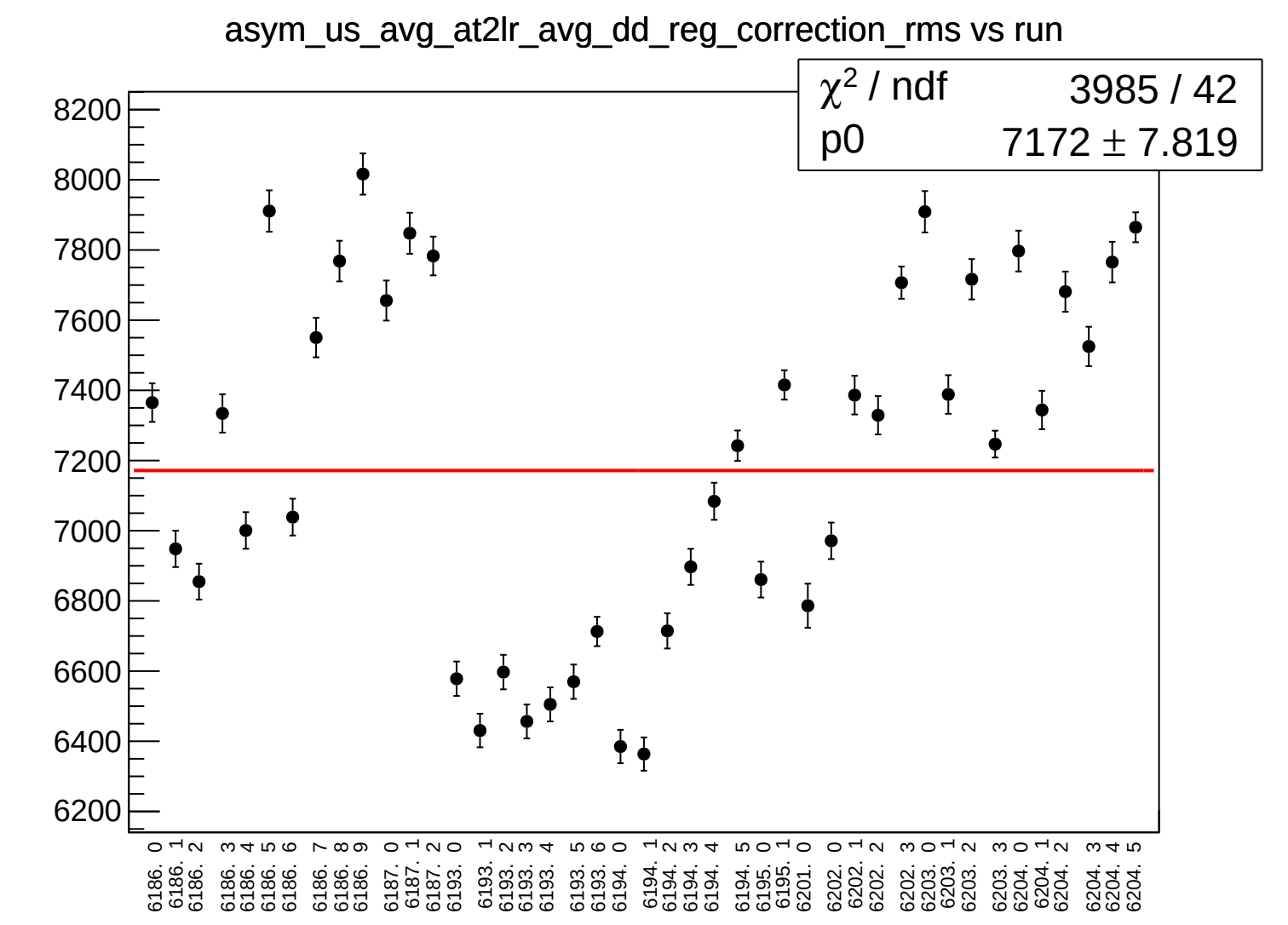
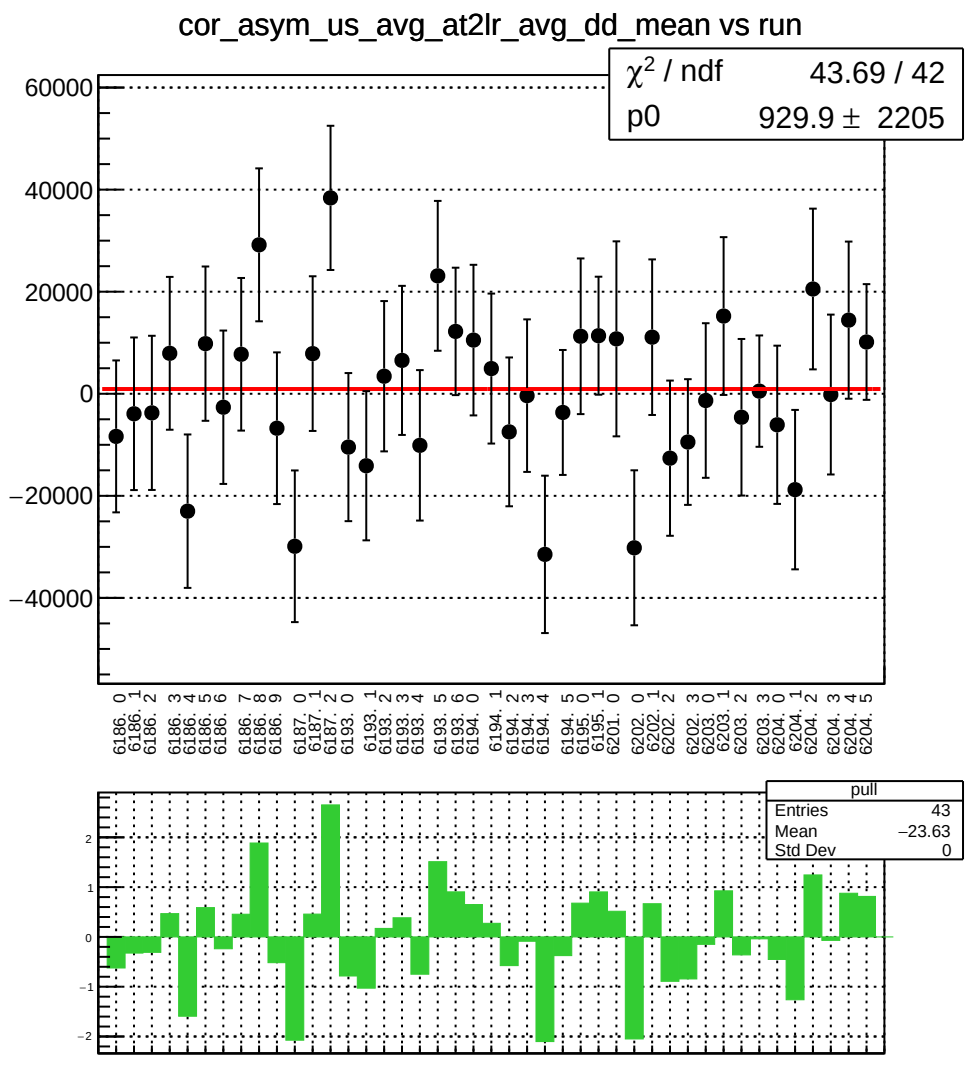
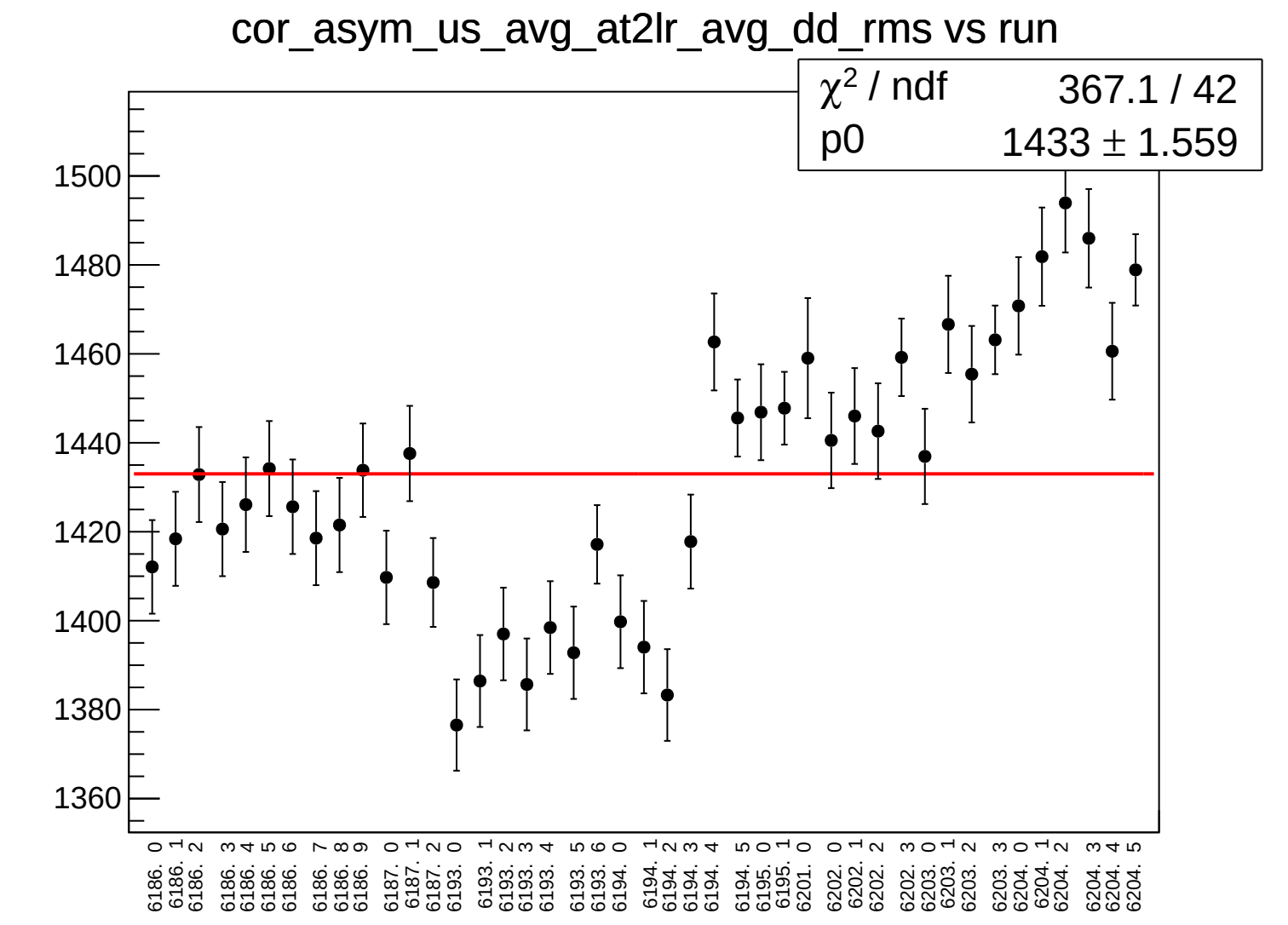
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 61.31 / 42
p0 −1.003e+04 ± 1.106e+04
300
200
100
0
−100
−200
−300
−400
−500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 166.3
Std Dev 0
3
2
1
0
−1
−2
−3
−4


pull1D
Entries 43
Mean −0.007845
Std Dev 1.194
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3985 / 42
p0 7172 ± 7.819
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 43.69 / 42
p0 929.9 ± 2205
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −23.63
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01103
Std Dev 1.008
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 367.1 / 42
p0 1433 ± 1.559
1500
1480
1460
1440
1420
1400
1380
1360
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
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6204. 2
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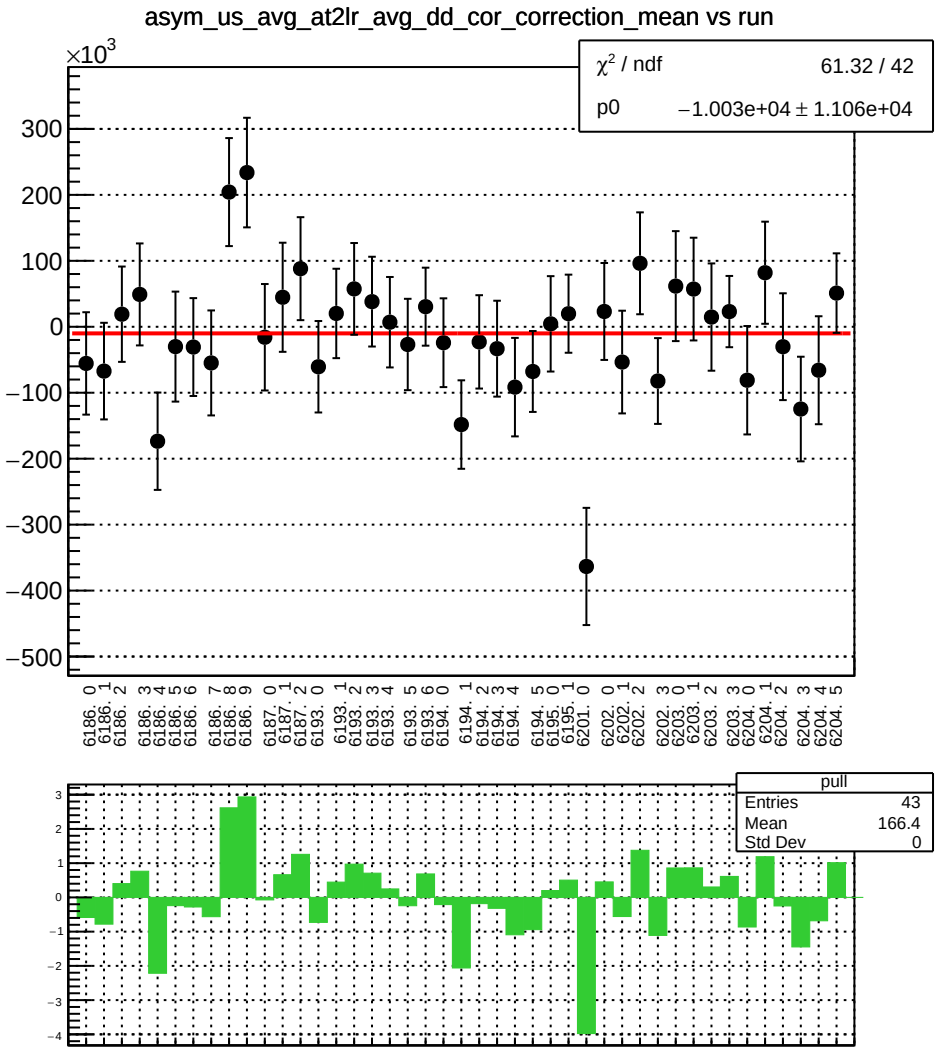
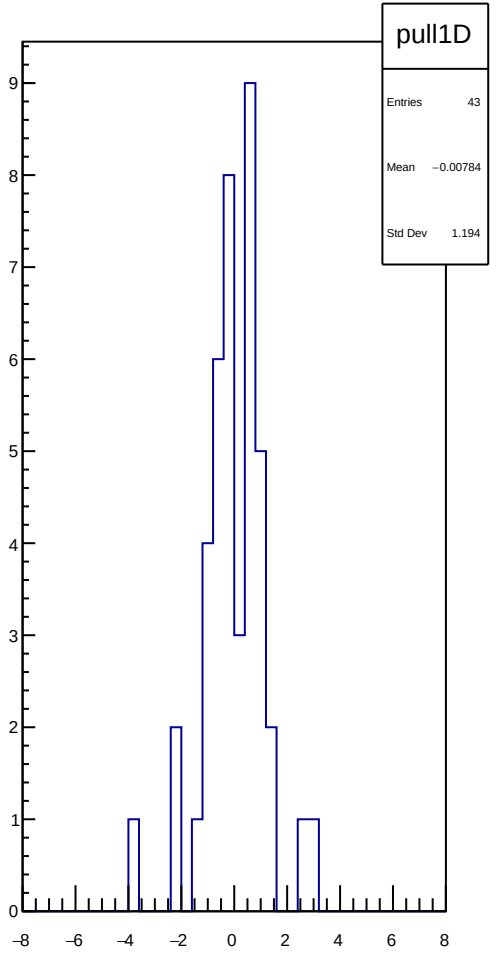
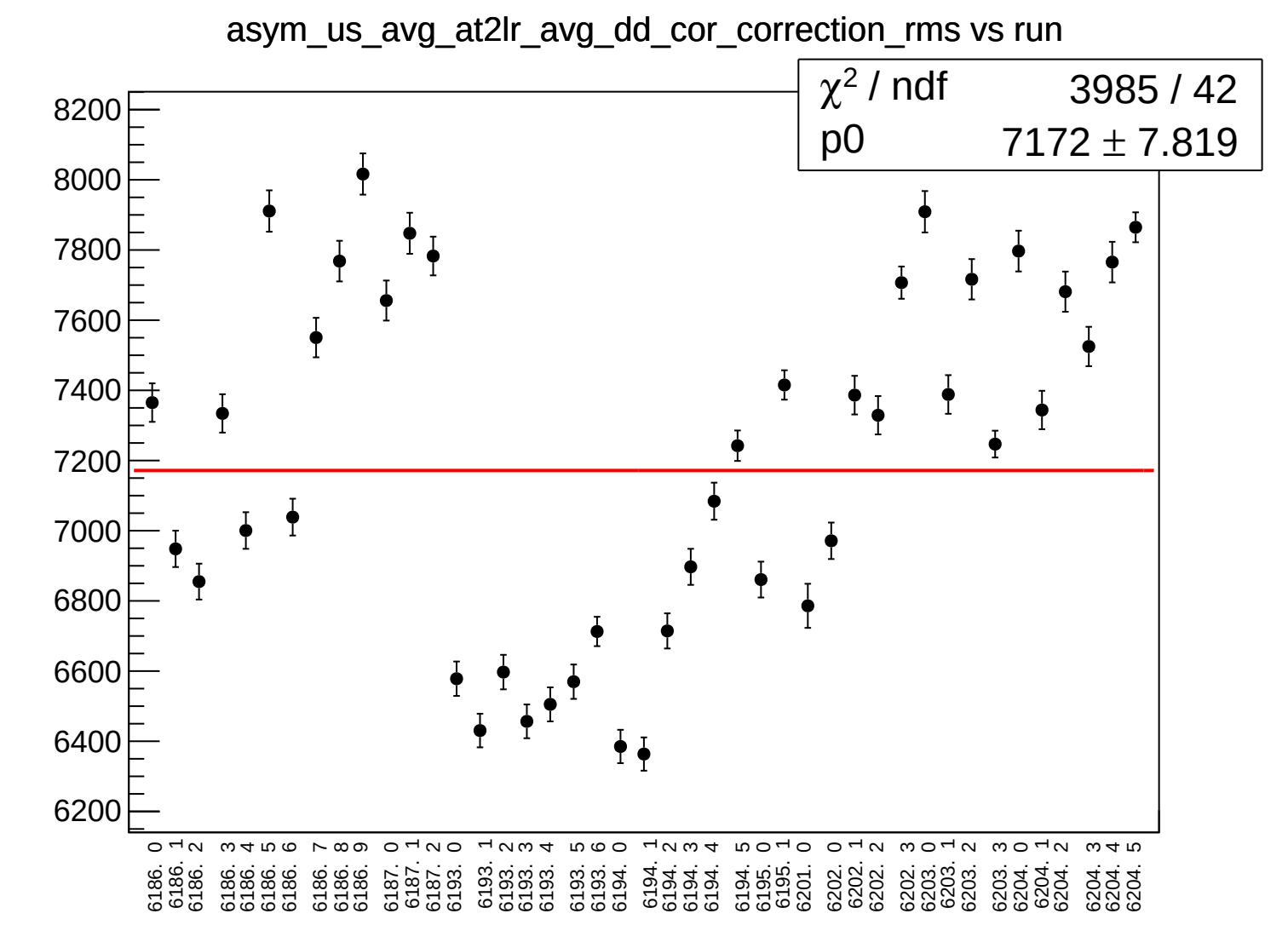
6204. 4
6204. 5


asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 61.32 / 42
p0 −1.003e+04 ± 1.106e+04
pull
Entries 43
Mean 166.4
Std Dev 0


pull1D
Entries 43
Mean −0.00784
Std Dev 1.194


asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3985 / 42
p0 7172 ± 7.819
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6193. 1
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6202. 1
6202. 2
6202. 3
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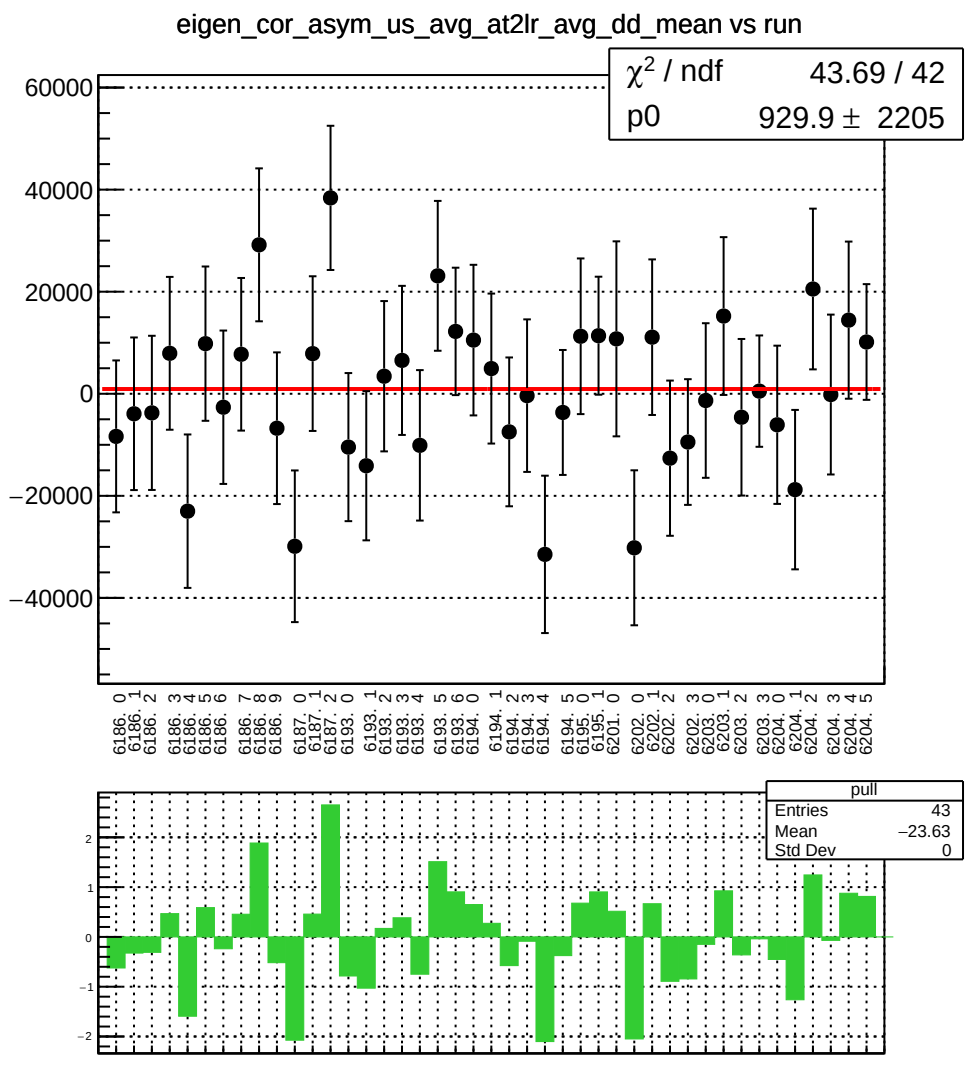
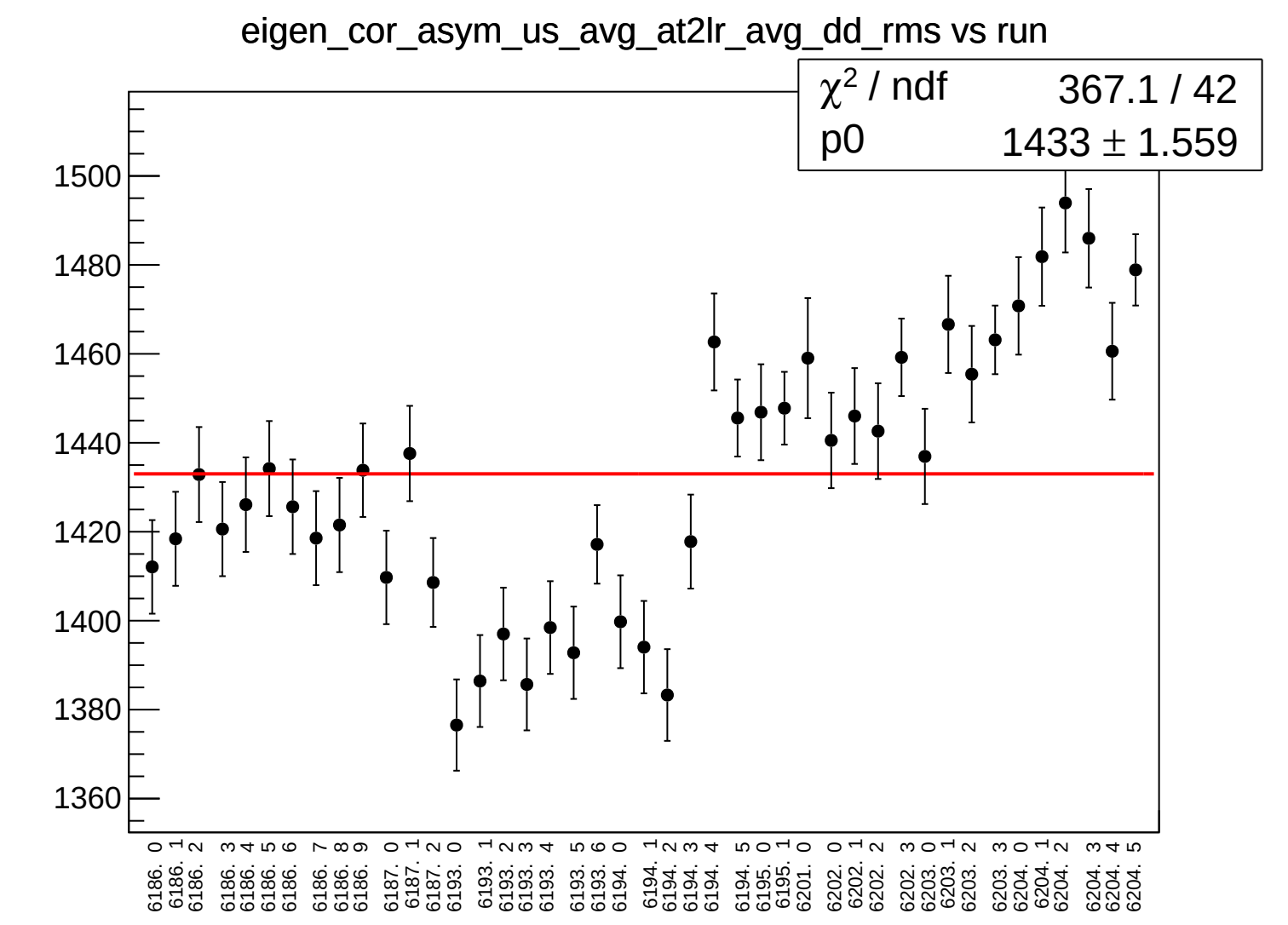
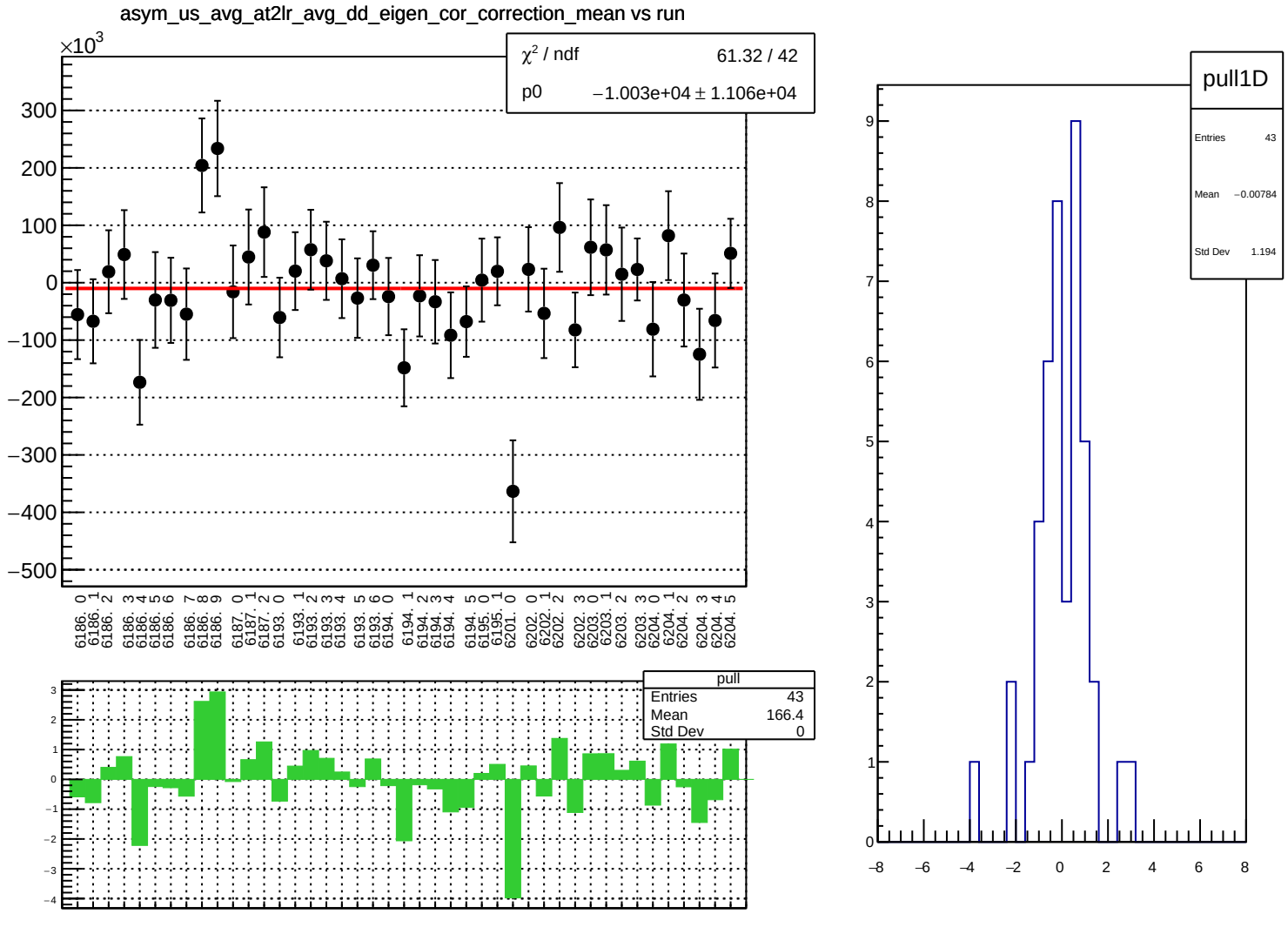
6204. 4
6204. 5


eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 43.69 / 42
p0 929.9 ± 2205
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −23.63
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01103
Std Dev 1.008
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 367.1 / 42
p0 1433 ± 1.559
1500
1480
1460
1440
1420
1400
1380
1360
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 61.32 / 42
p0 −1.003e+04 ± 1.106e+04
300
200
100
0
−100
−200
−300
−400
−500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
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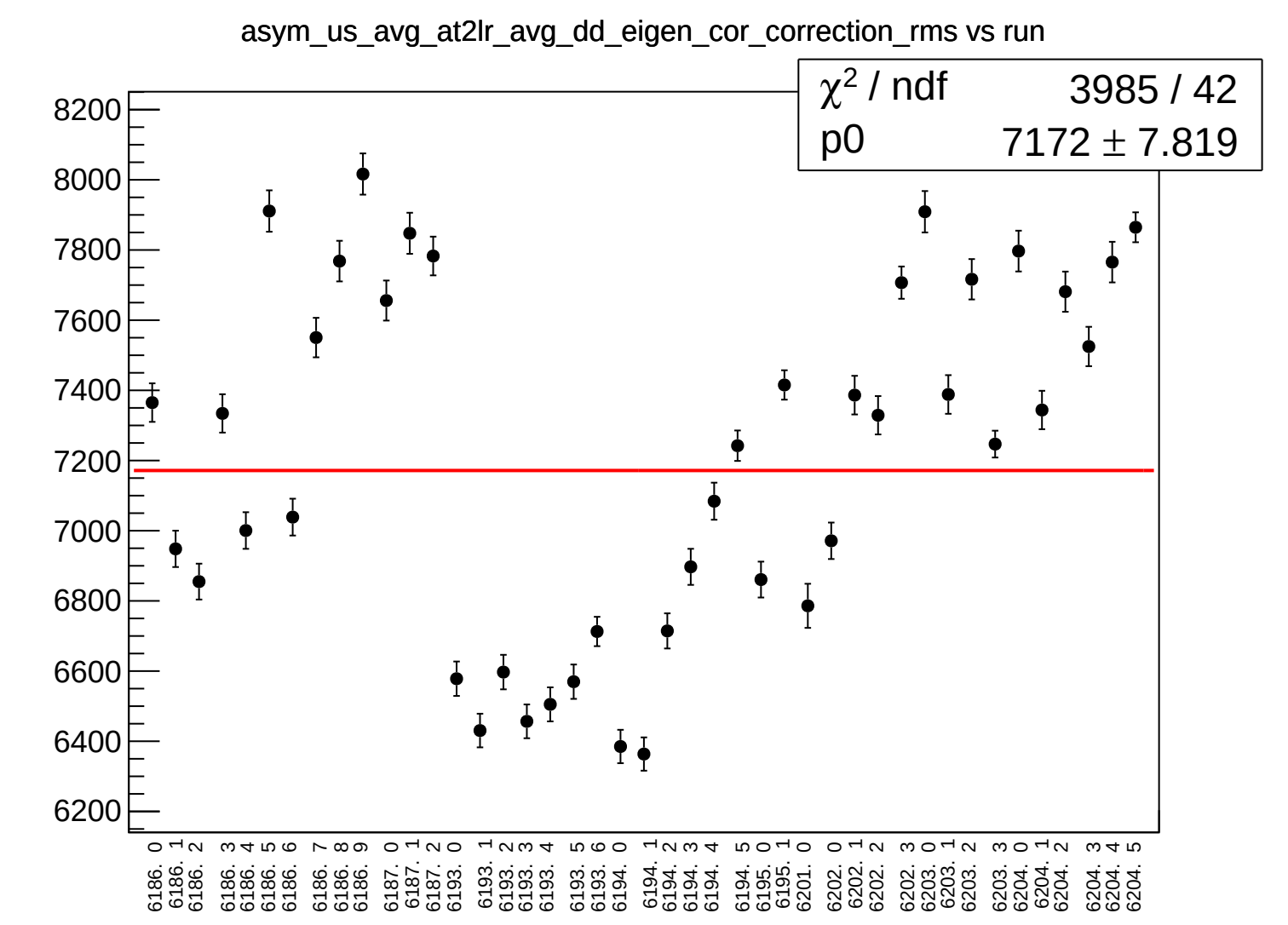
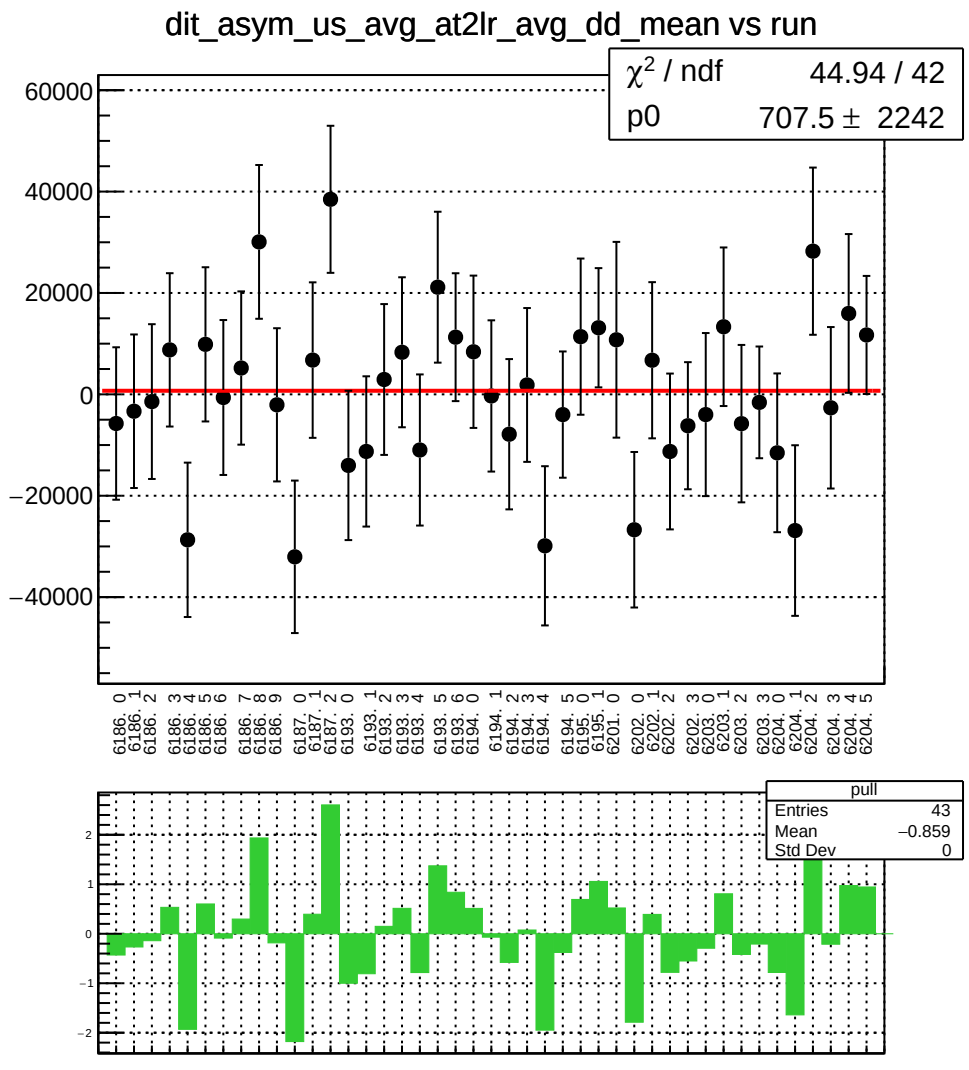
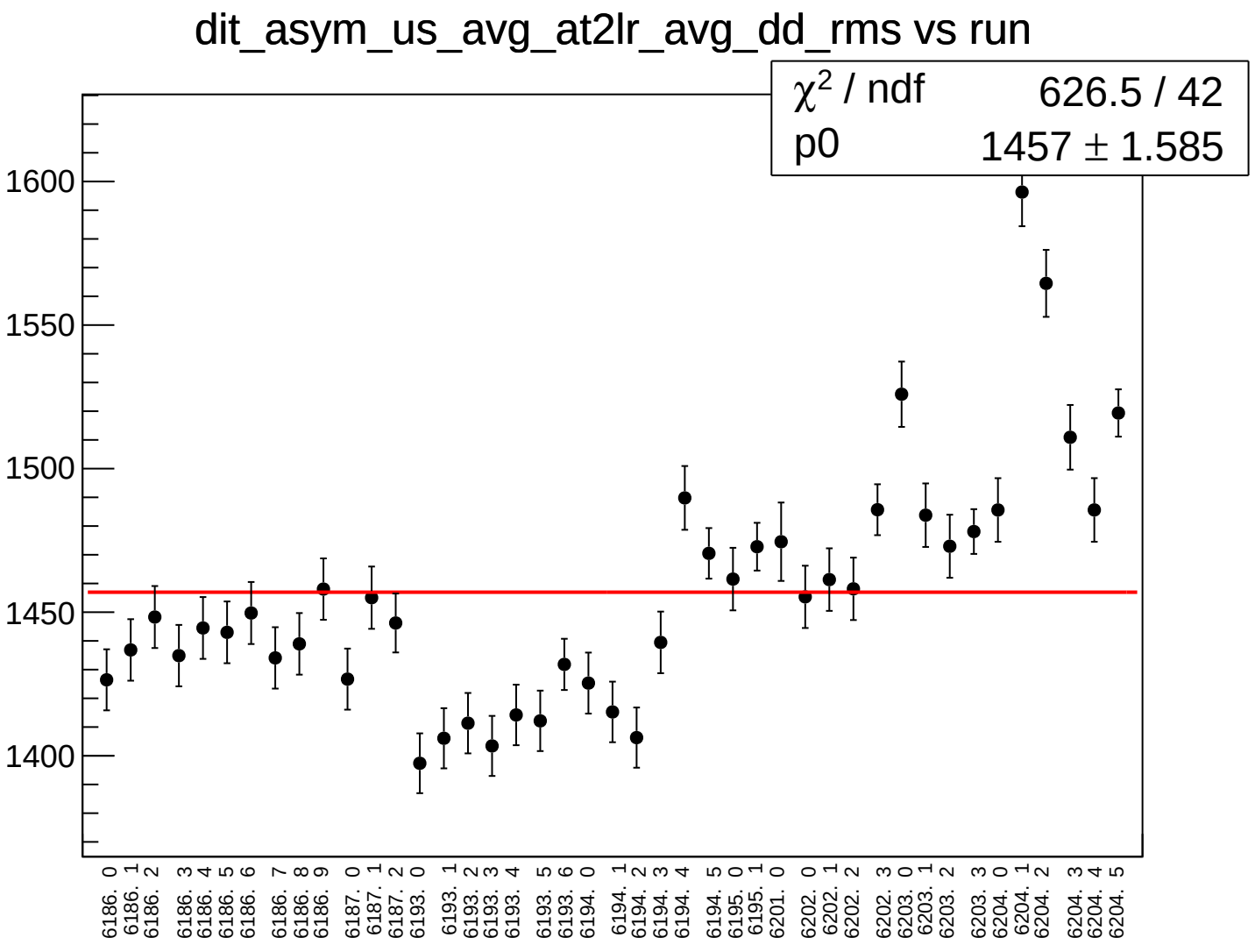
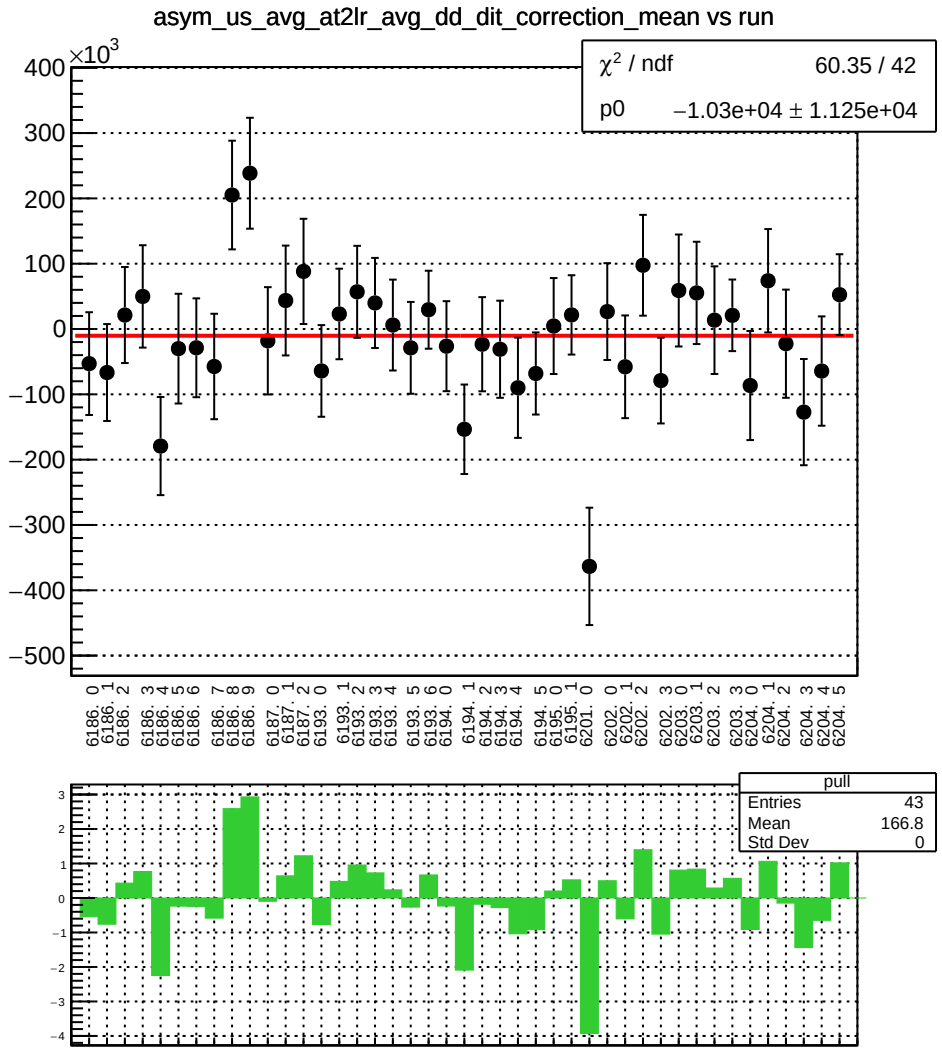
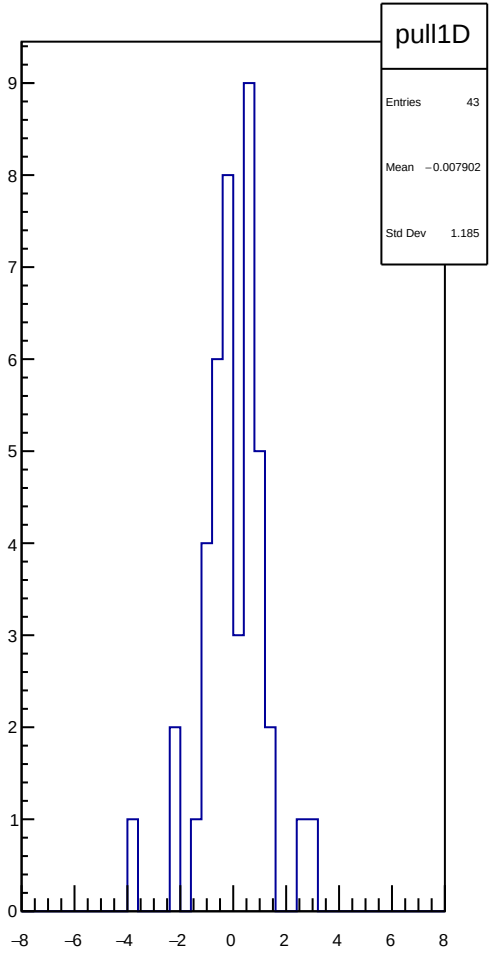
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 166.4
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.00784
Std Dev 1.194
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

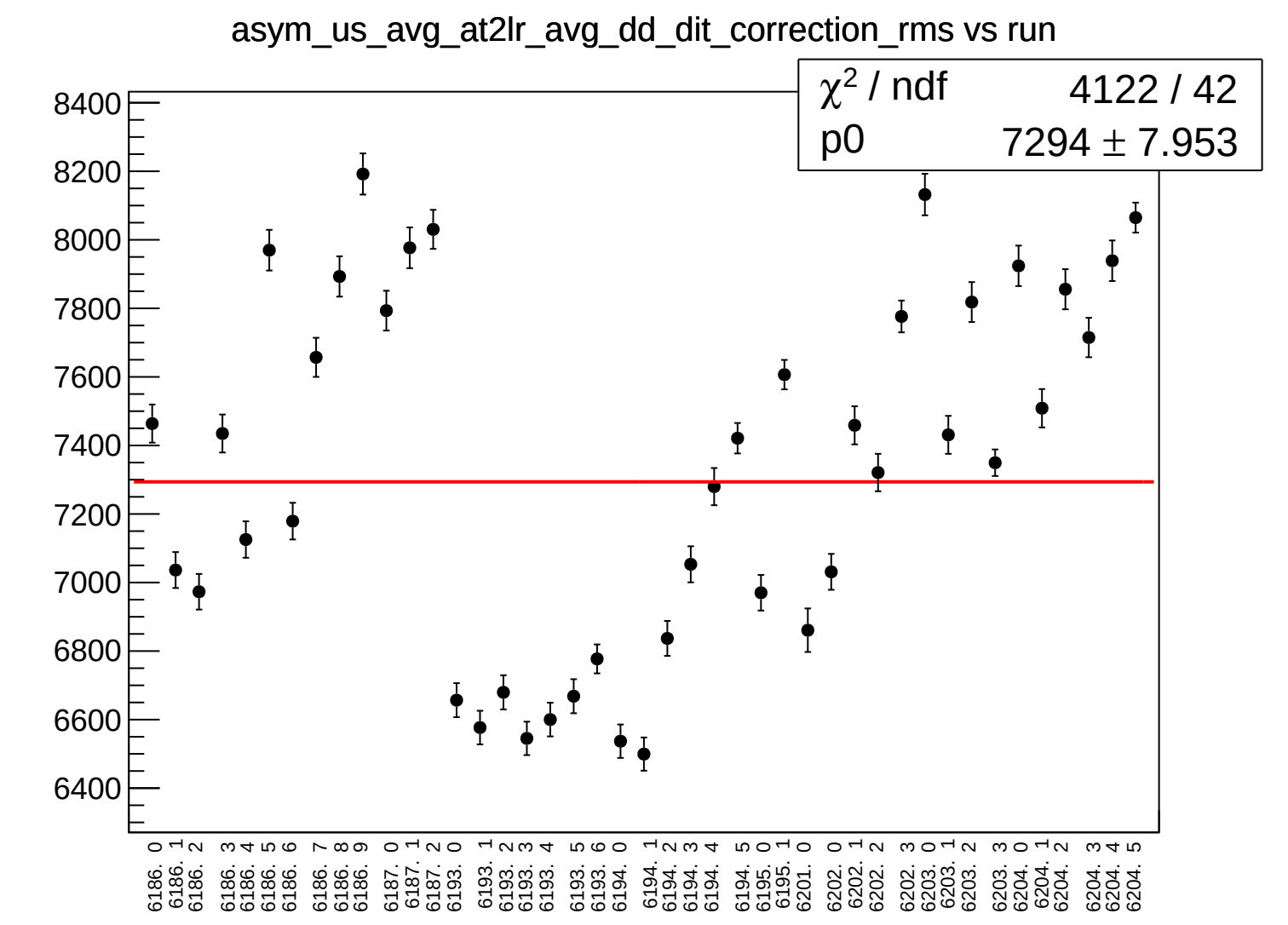

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3985 / 42
p0 7172 ± 7.819
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

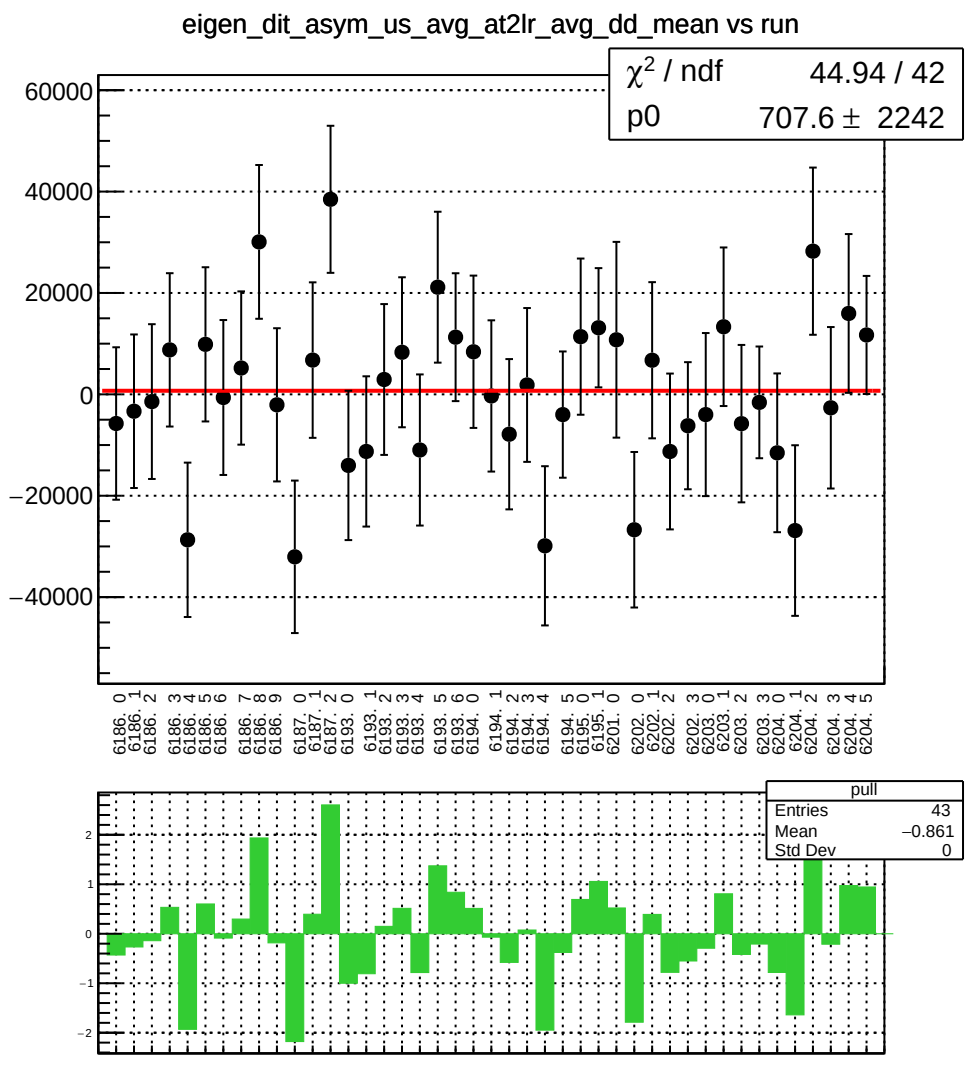

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 44.94 / 42
p0 707.5 ± 2242
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −0.859
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01298
Std Dev 1.022
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

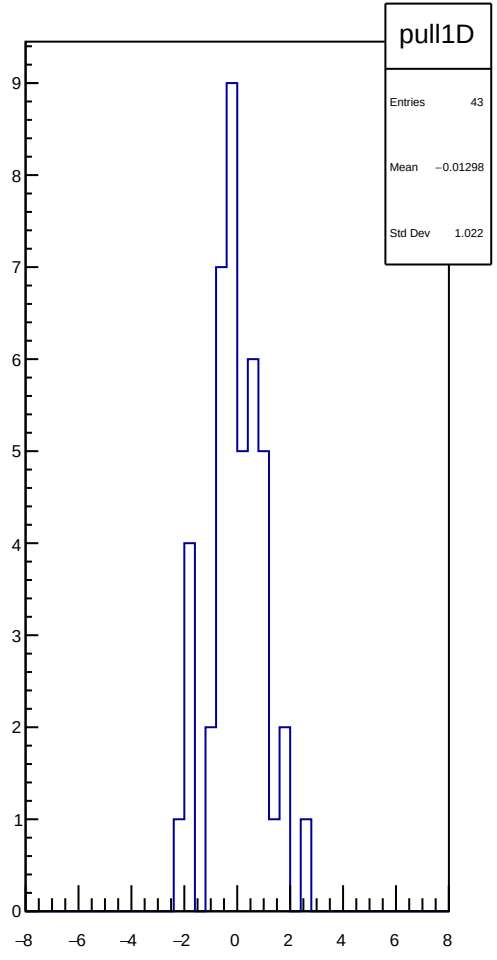

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 626.5 / 42
p0 1457 ± 1.585
1600
1550
1500
1450
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

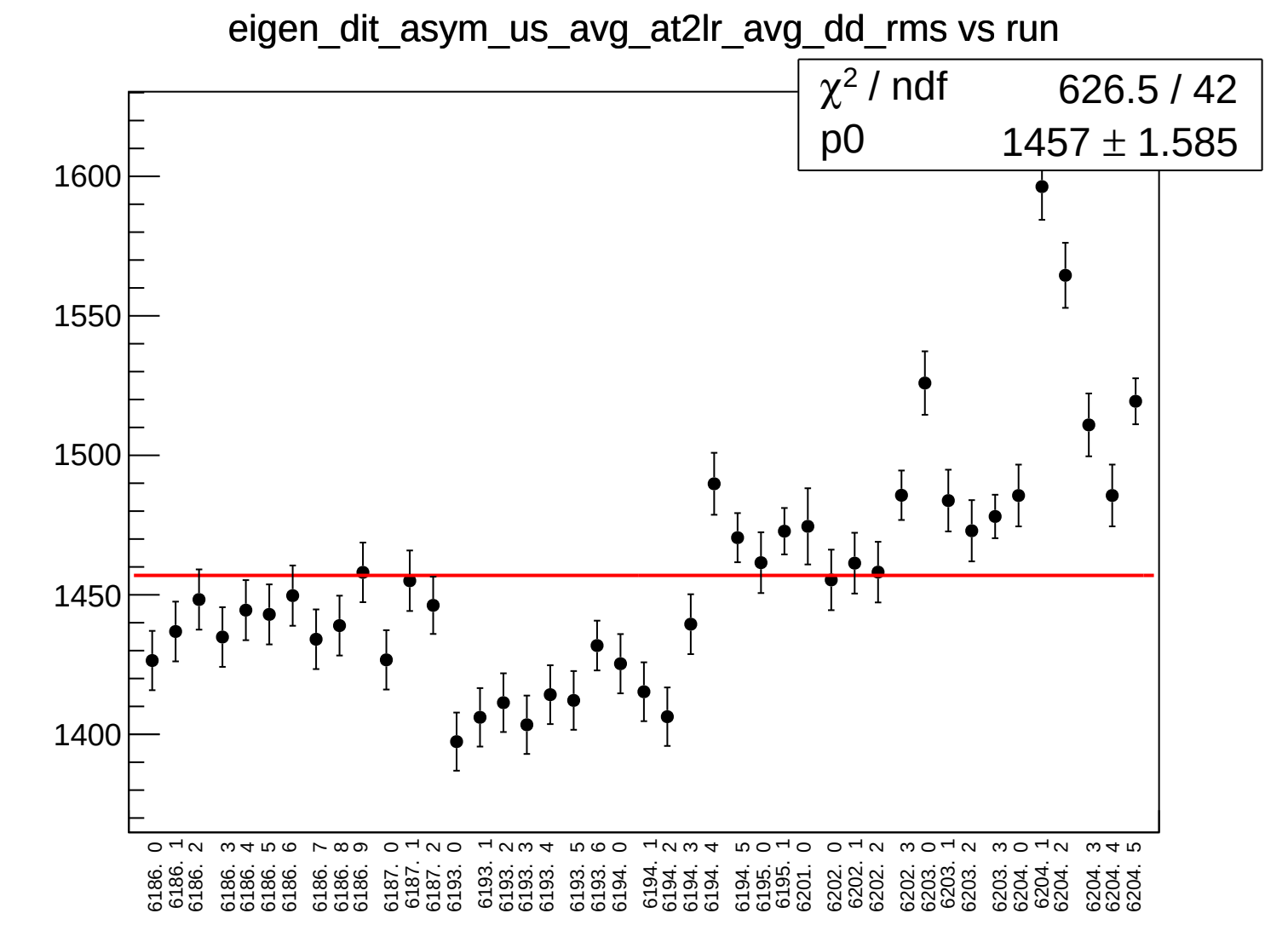

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
χ² / ndf 60.35 / 42
p0 −1.03e+04 ± 1.125e+04
pull
Entries 43
Mean 166.8
Std Dev 0

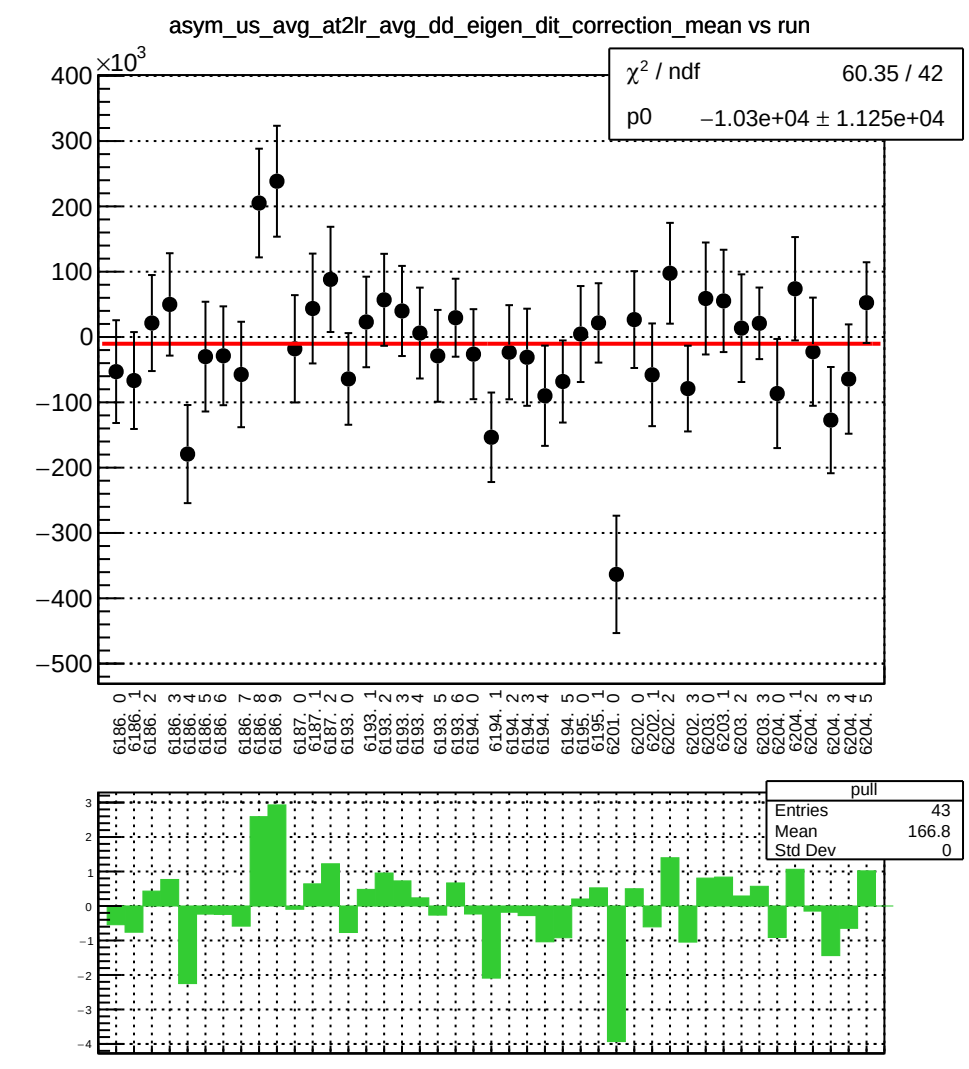

pull1D
Entries 43
Mean −0.007902
Std Dev 1.185

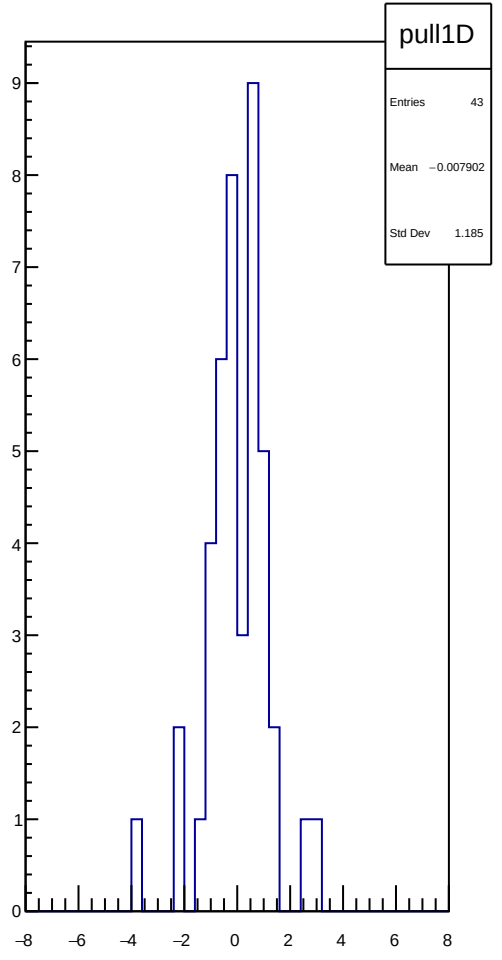

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 4122 / 42
p0 7294 ± 7.953
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

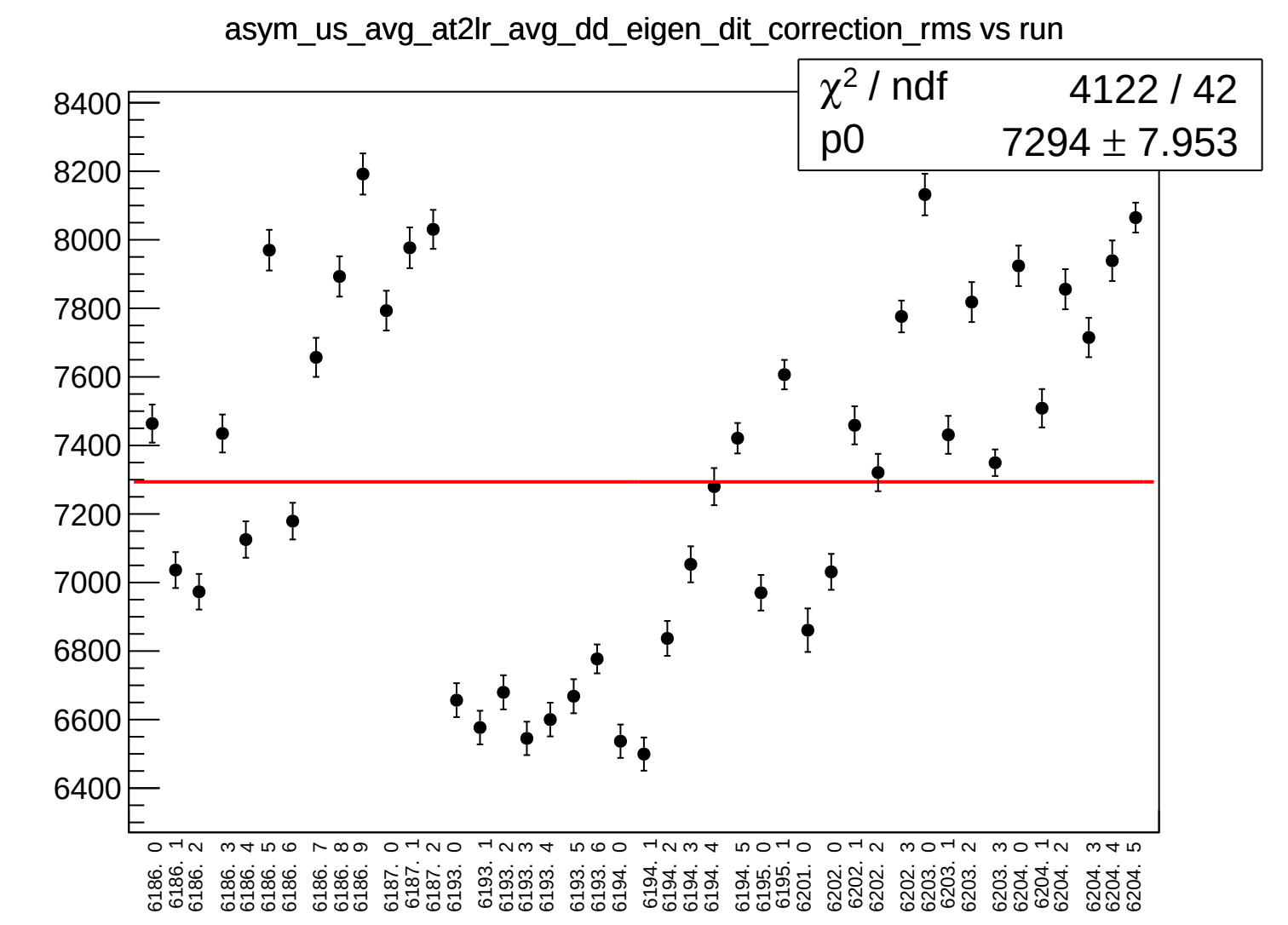

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 44.94 / 42
p0 707.6 ± 2242
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −0.861
Std Dev 0
2
1
0
−1
−2

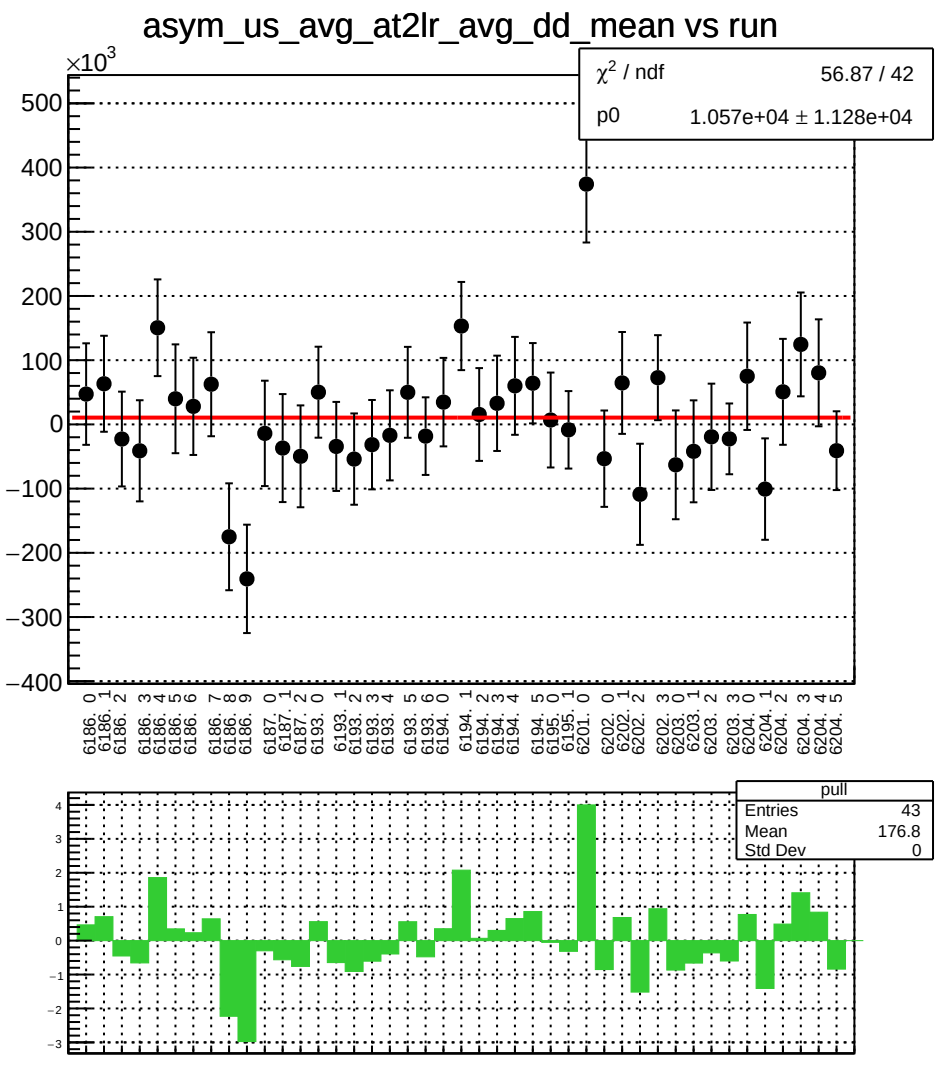

pull1D
Entries 43
Mean −0.01298
Std Dev 1.022
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

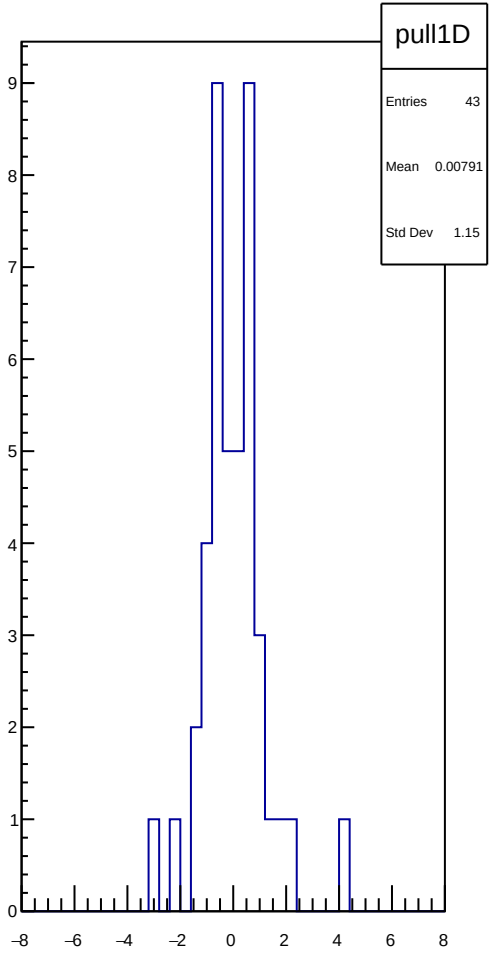

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 626.5 / 42
p0 1457 ± 1.585
1600
1550
1500
1450
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

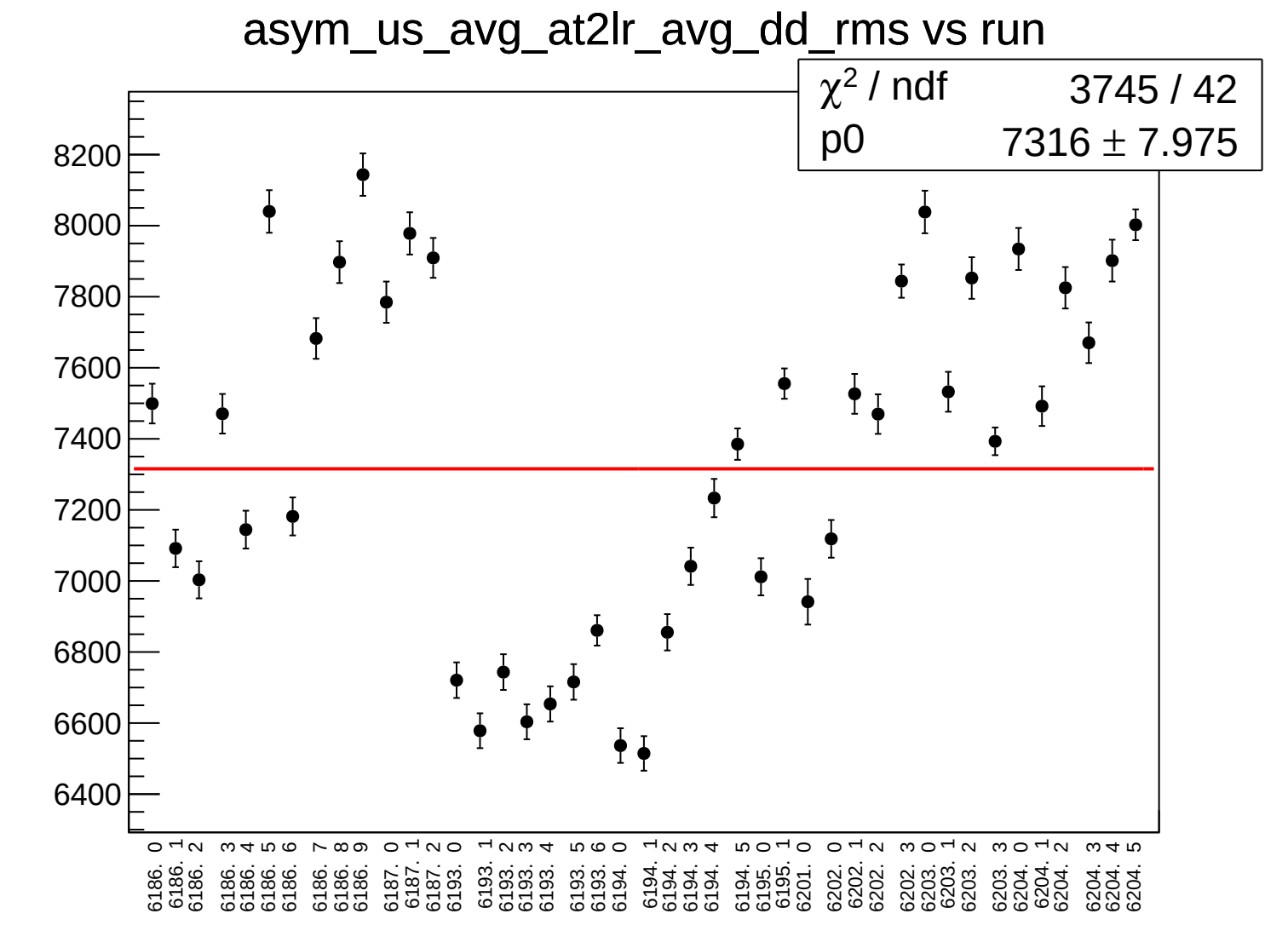

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 60.35 / 42
p0 −1.03e+04 ± 1.125e+04
pull
Entries 43
Mean 166.8
Std Dev 0

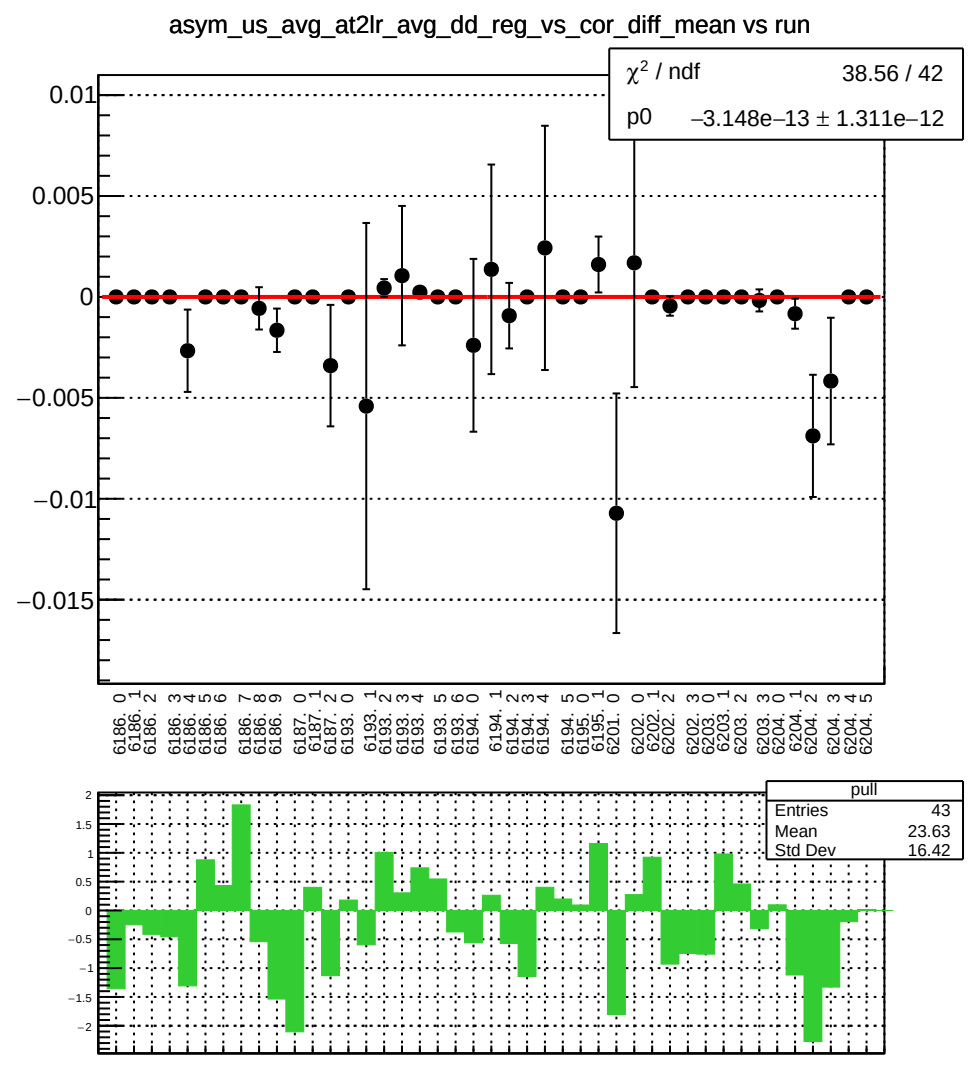

pull1D
Entries 43
Mean −0.007902
Std Dev 1.185

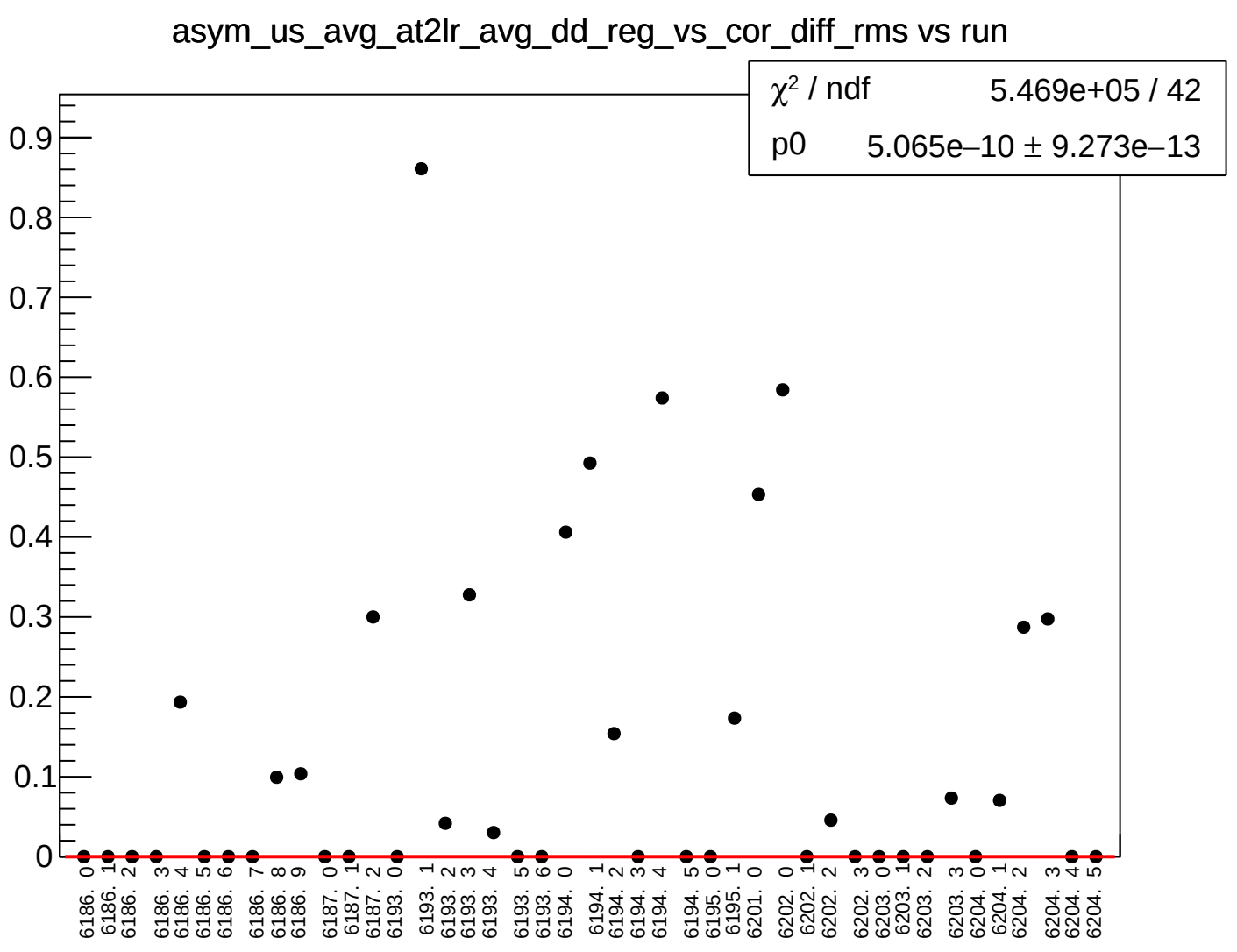

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4122 / 42
p0 7294 ± 7.953
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

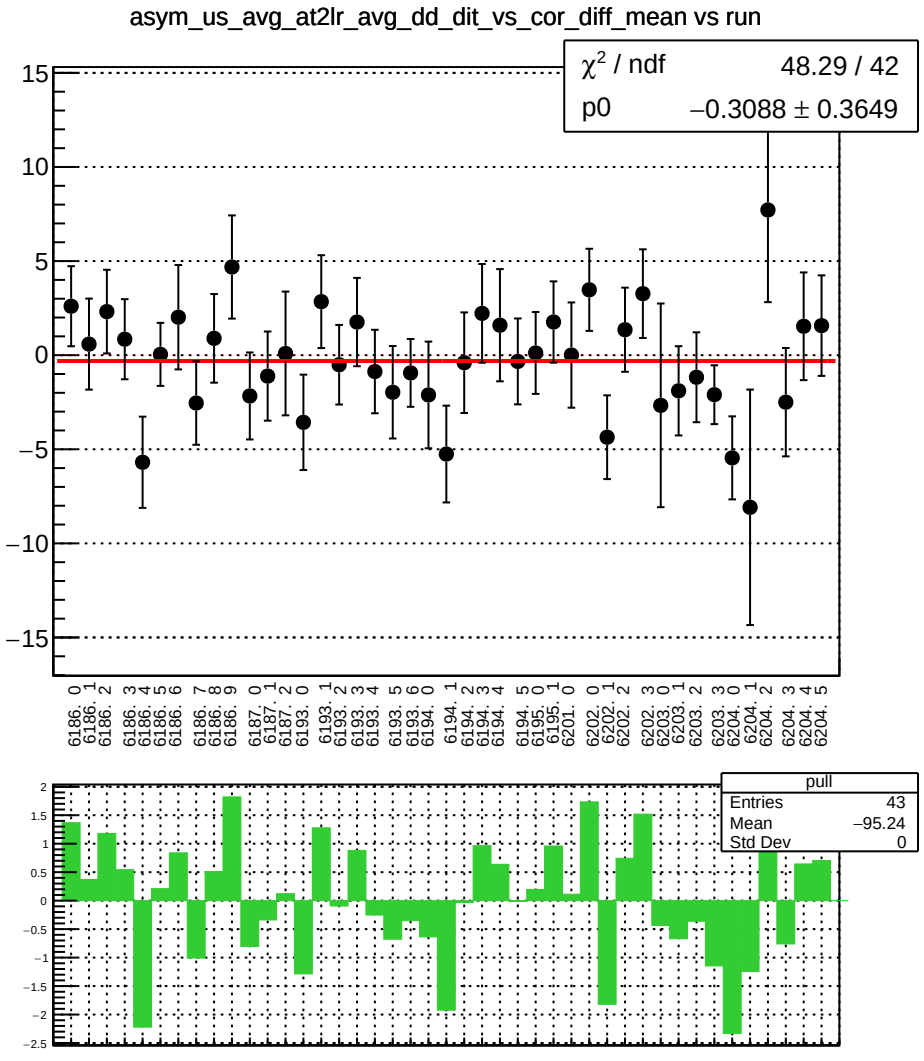

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 56.87 / 42
p0 1.057e+04 ± 1.128e+04
pull
Entries 43
Mean 176.8
Std Dev 0

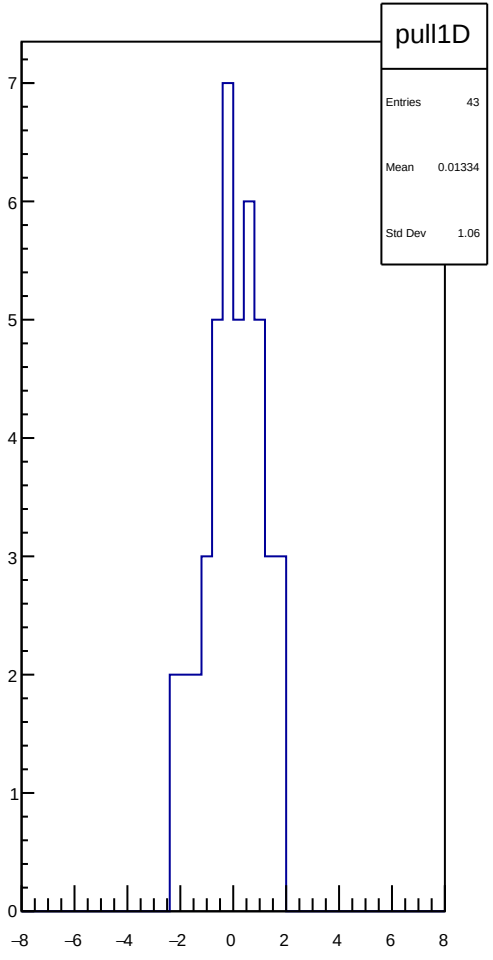

pull1D
Entries 43
Mean 0.00791
Std Dev 1.15

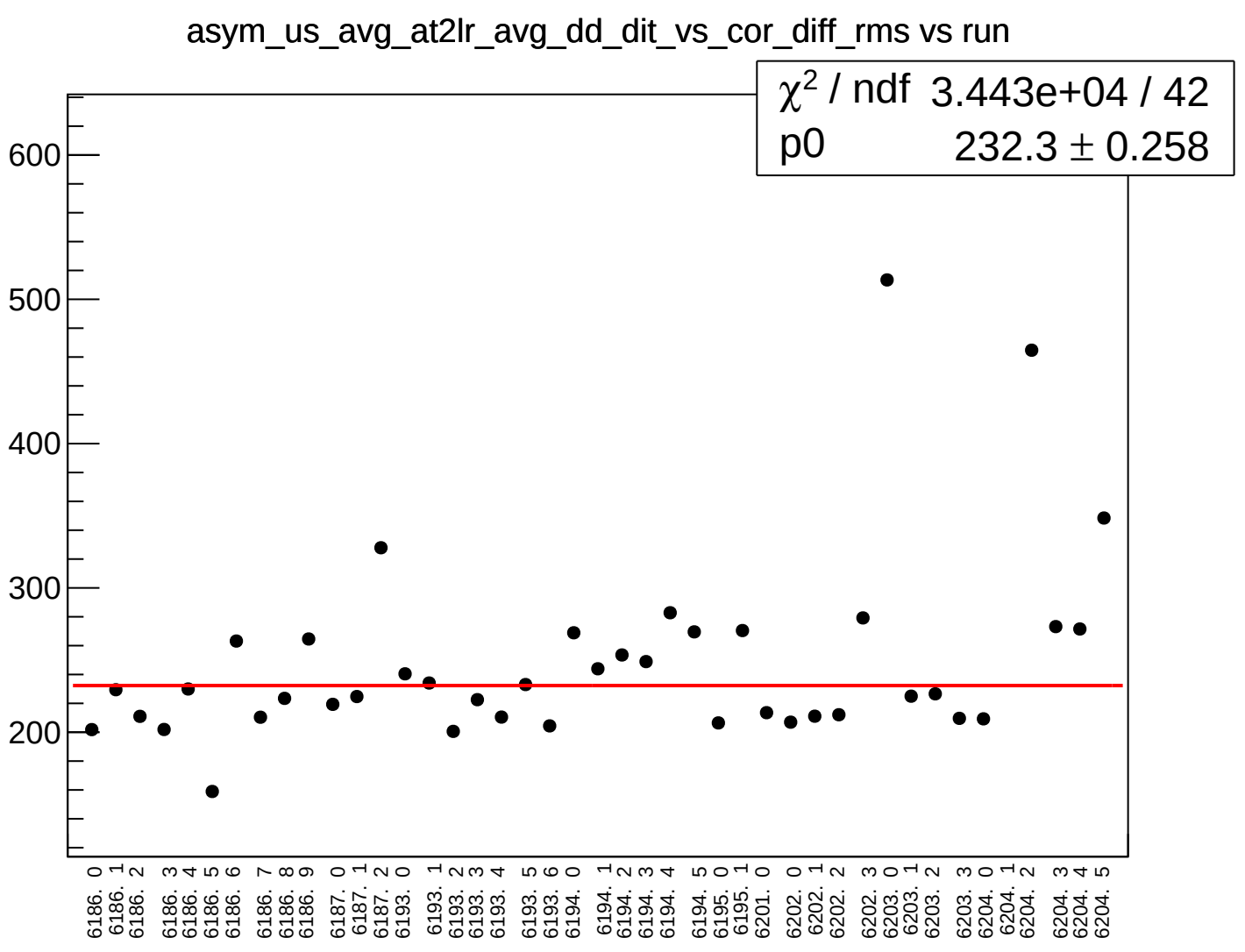

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3745 / 42
p0 7316 ± 7.975
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

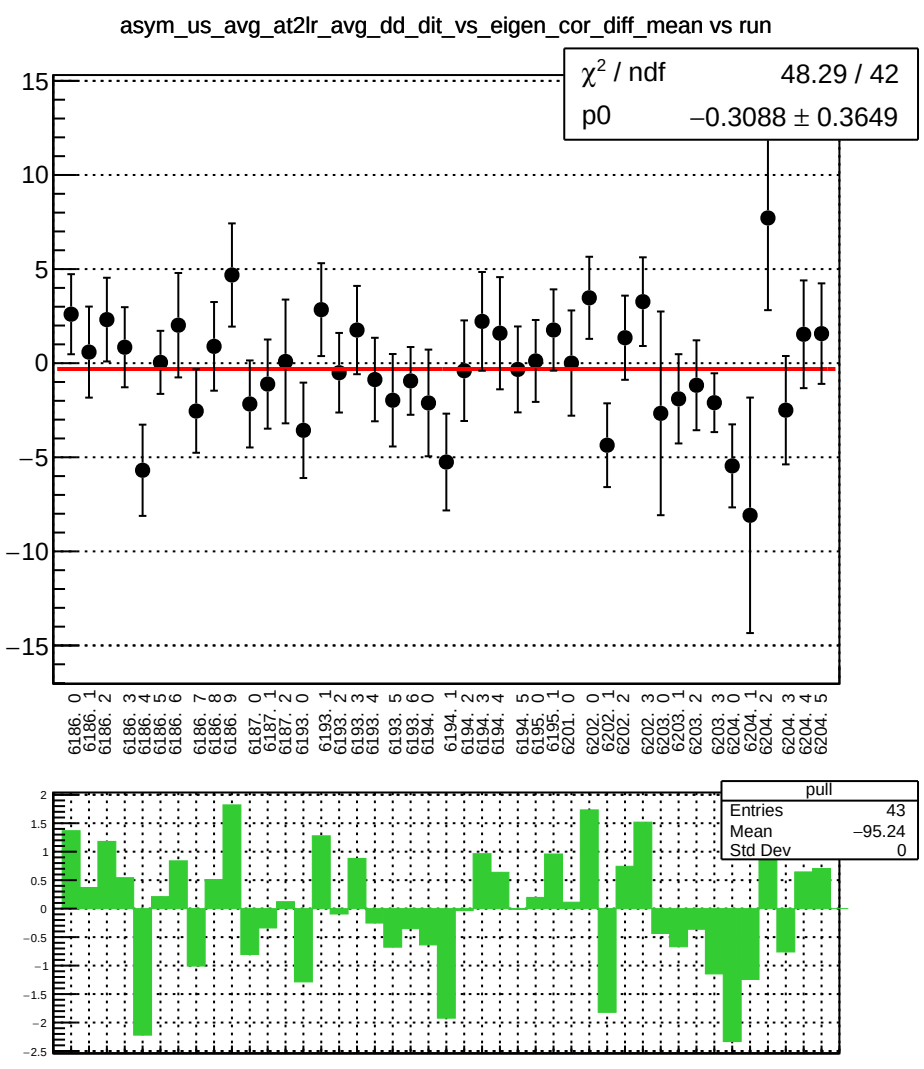

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 38.56 / 42
p0 −3.148e−13 ± 1.311e−12
0.01
0.005
0
−0.005
−0.01
−0.015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 23.63
Std Dev 16.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.2469
Std Dev 0.9142
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

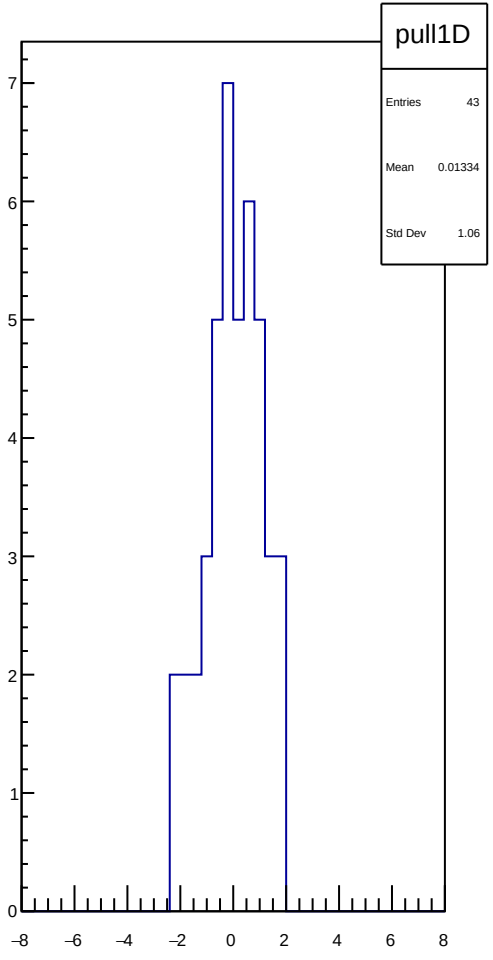

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.469e+05 / 42
p0 5.065e−10 ± 9.273e−13
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

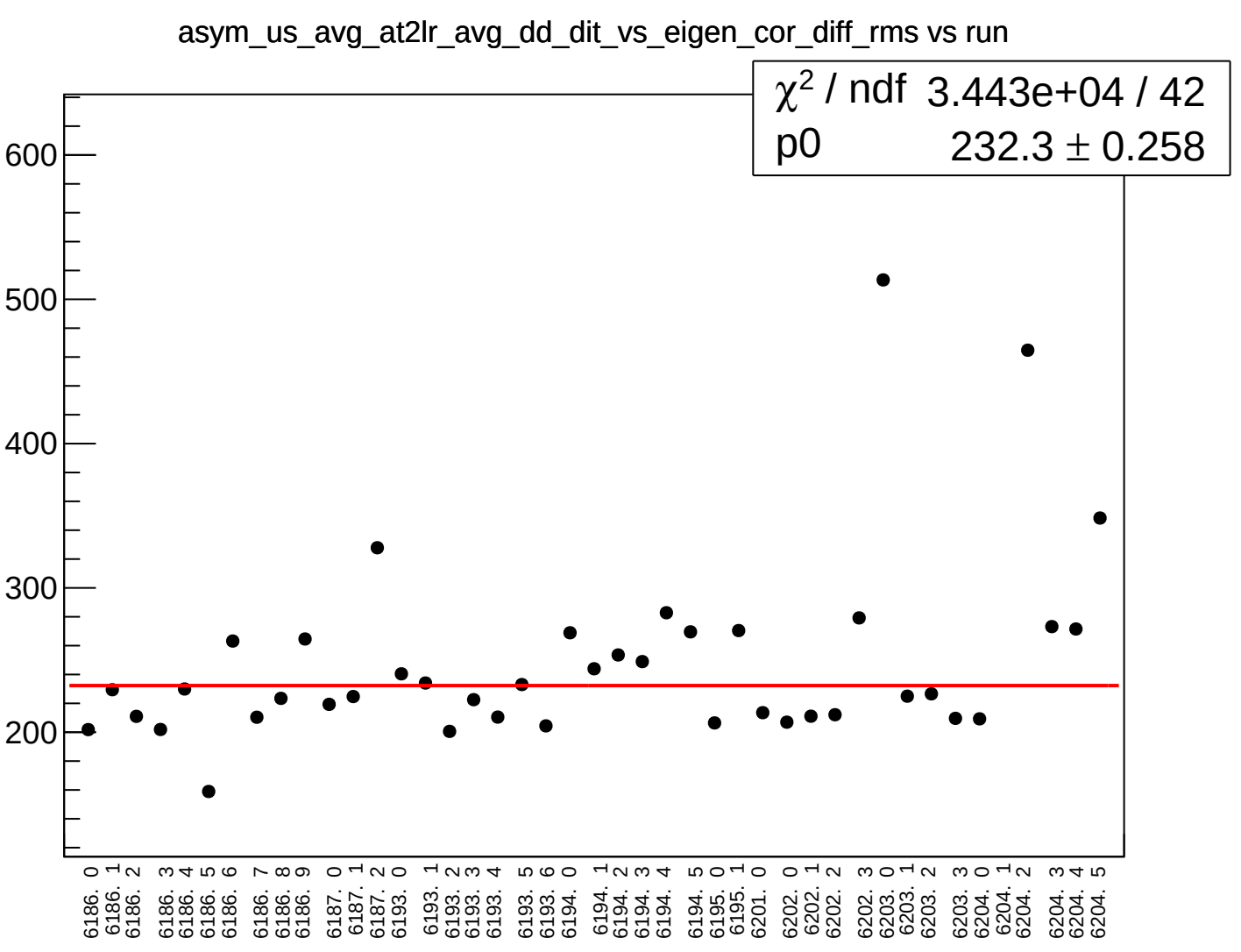

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 48.29 / 42
p0 −0.3088 ± 0.3649
pull
Entries 43
Mean −95.24
Std Dev 0

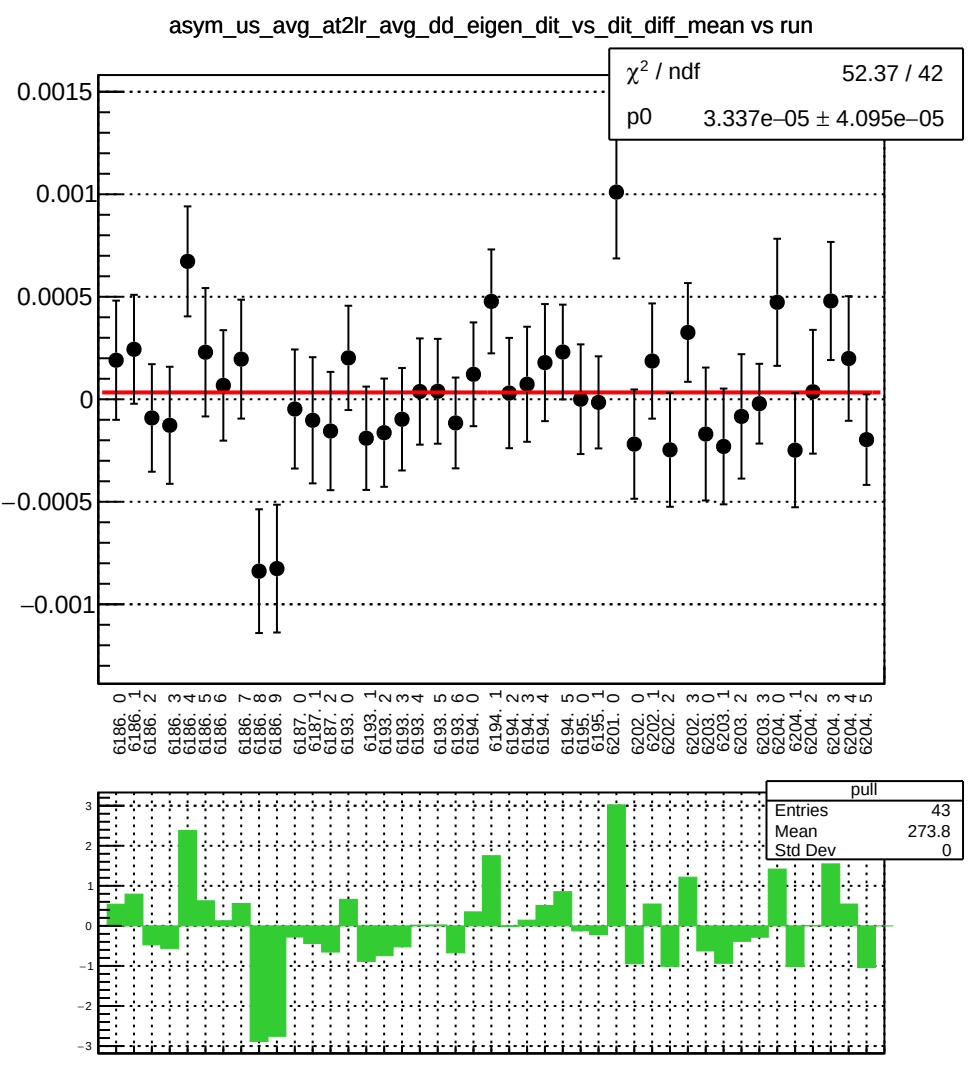

pull1D
Entries 43
Mean 0.01334
Std Dev 1.06

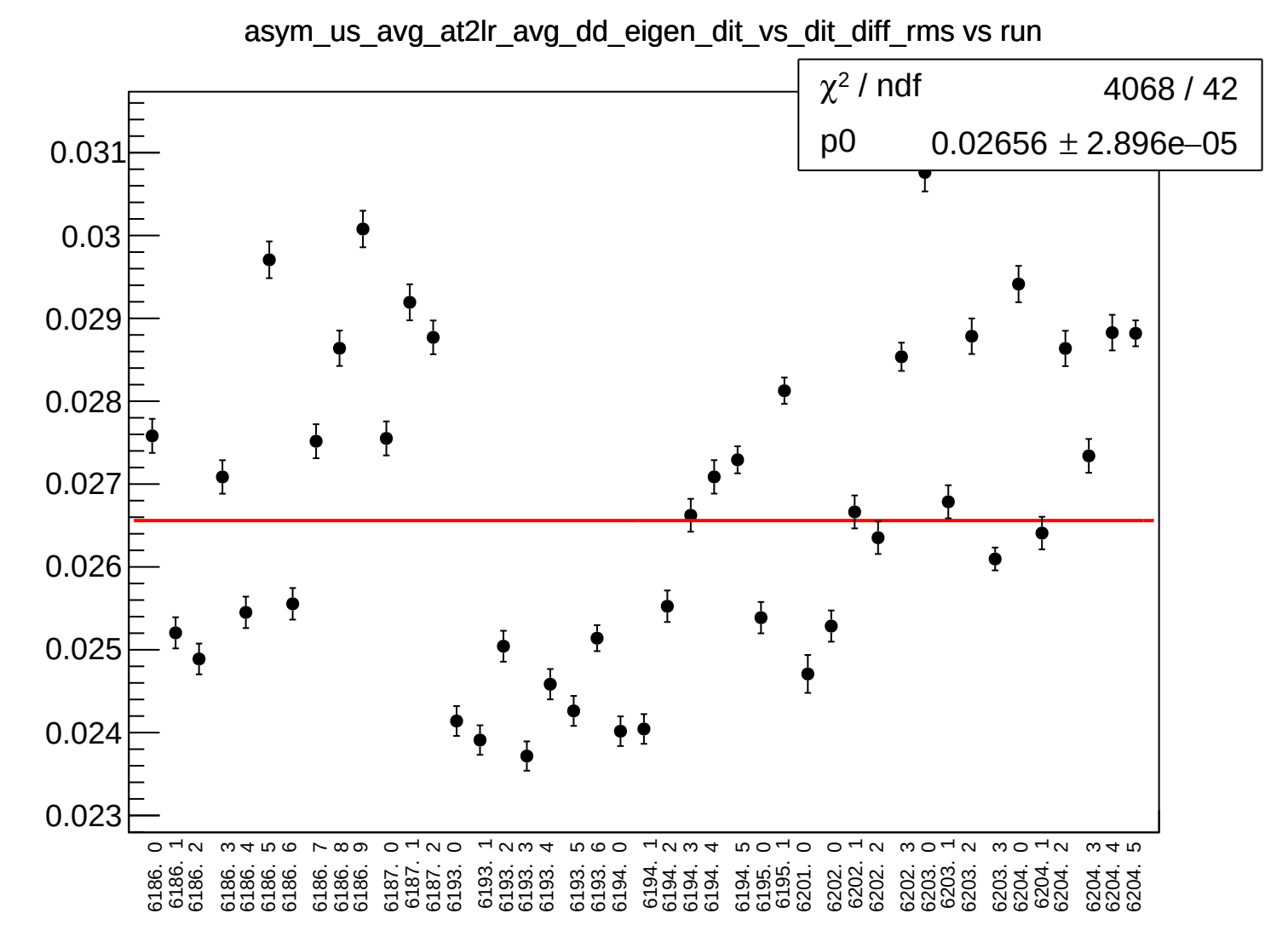

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.443e+04 / 42
p0 232.3 ± 0.258
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

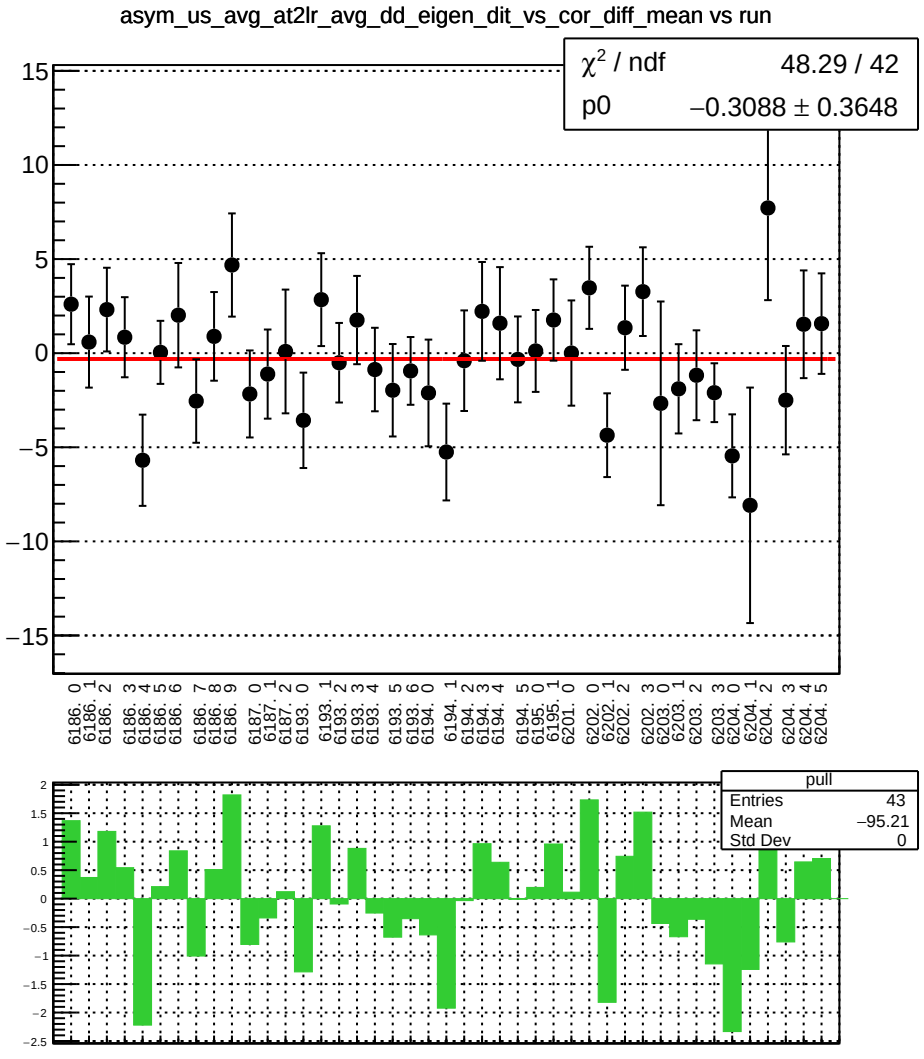

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.29 / 42
p0 −0.3088 ± 0.3649
15
10
5
0
−5
−10
−15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −95.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

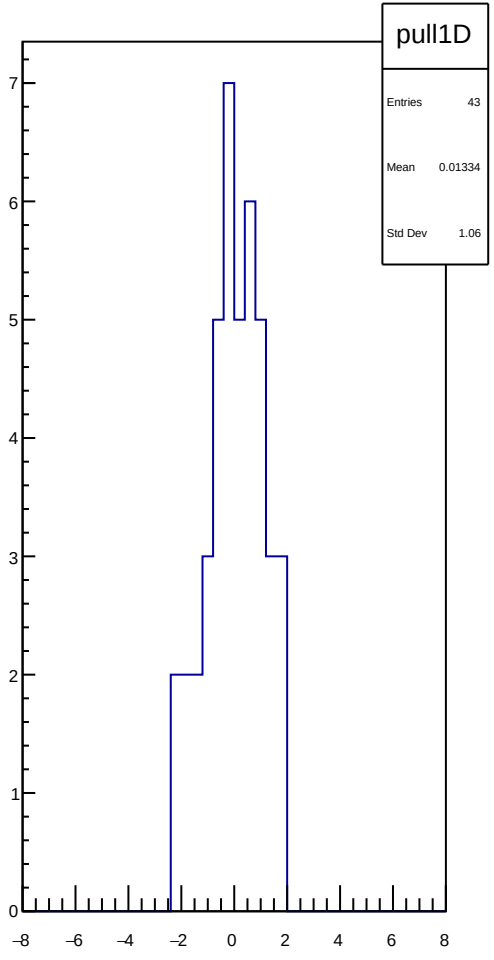

pull1D
Entries 43
Mean 0.01334
Std Dev 1.06
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

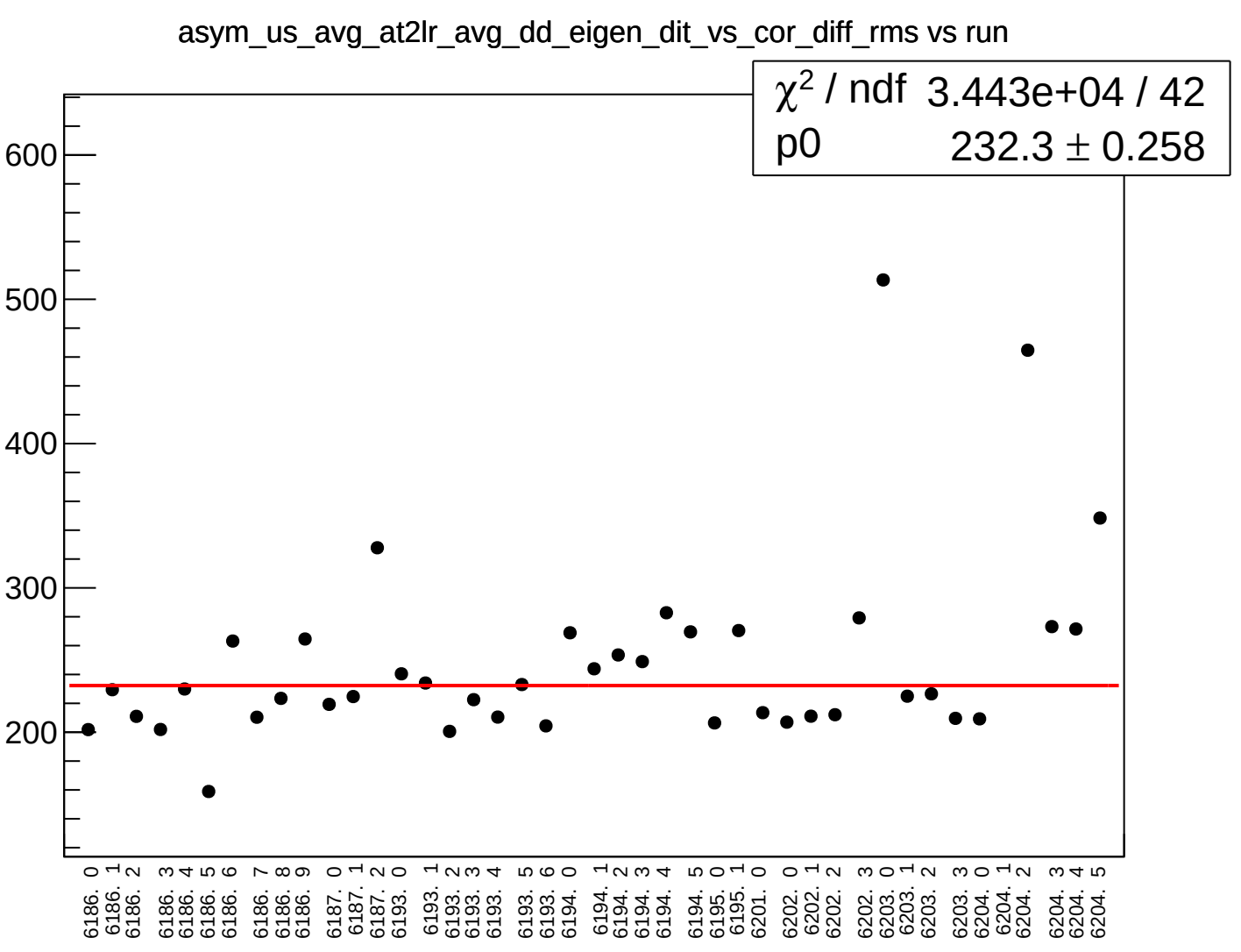

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.443e+04 / 42
p0 232.3 ± 0.258
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

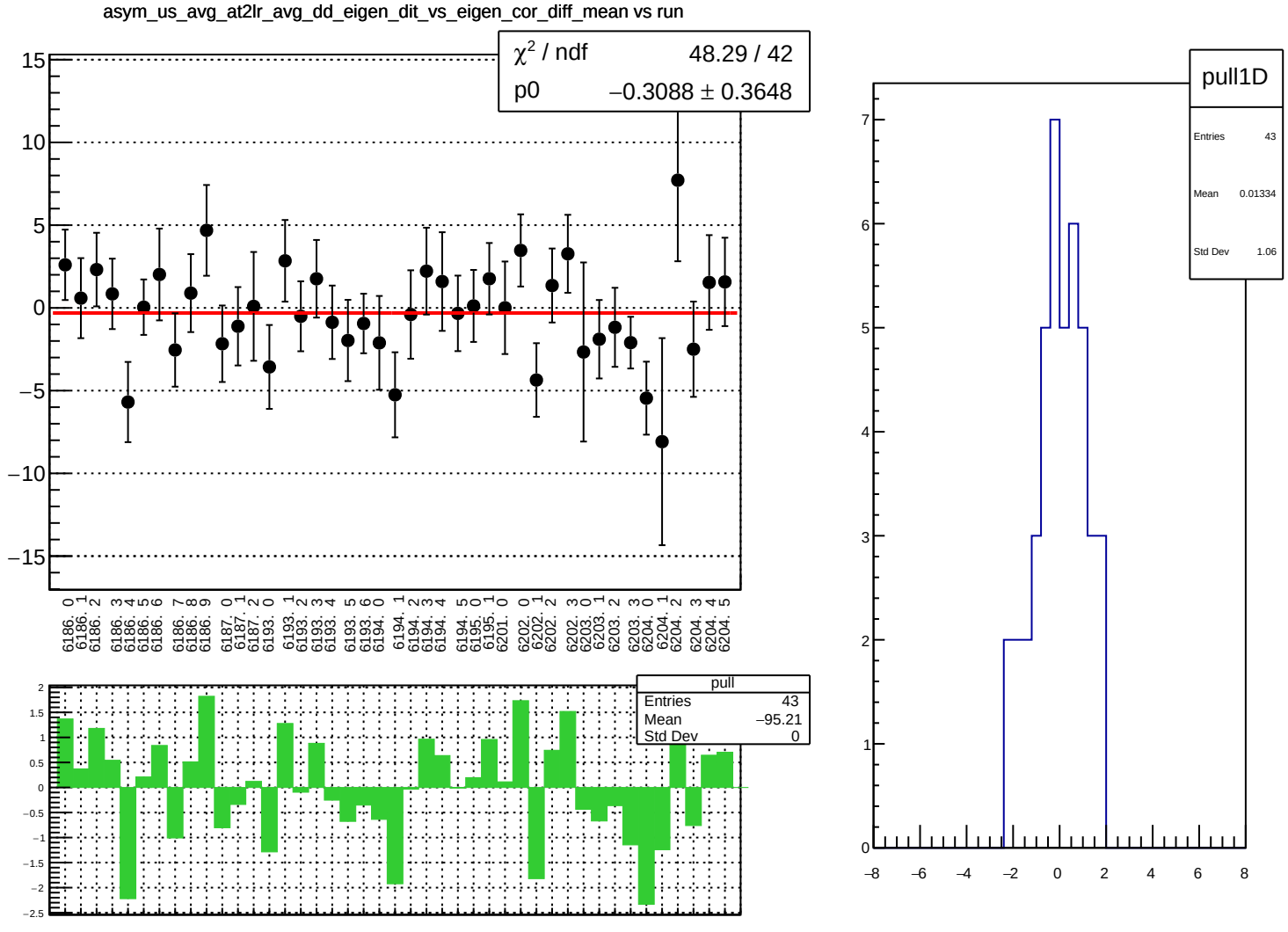

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 52.37 / 42
p0 3.337e−05 ± 4.095e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 273.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.004091
Std Dev 1.104
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

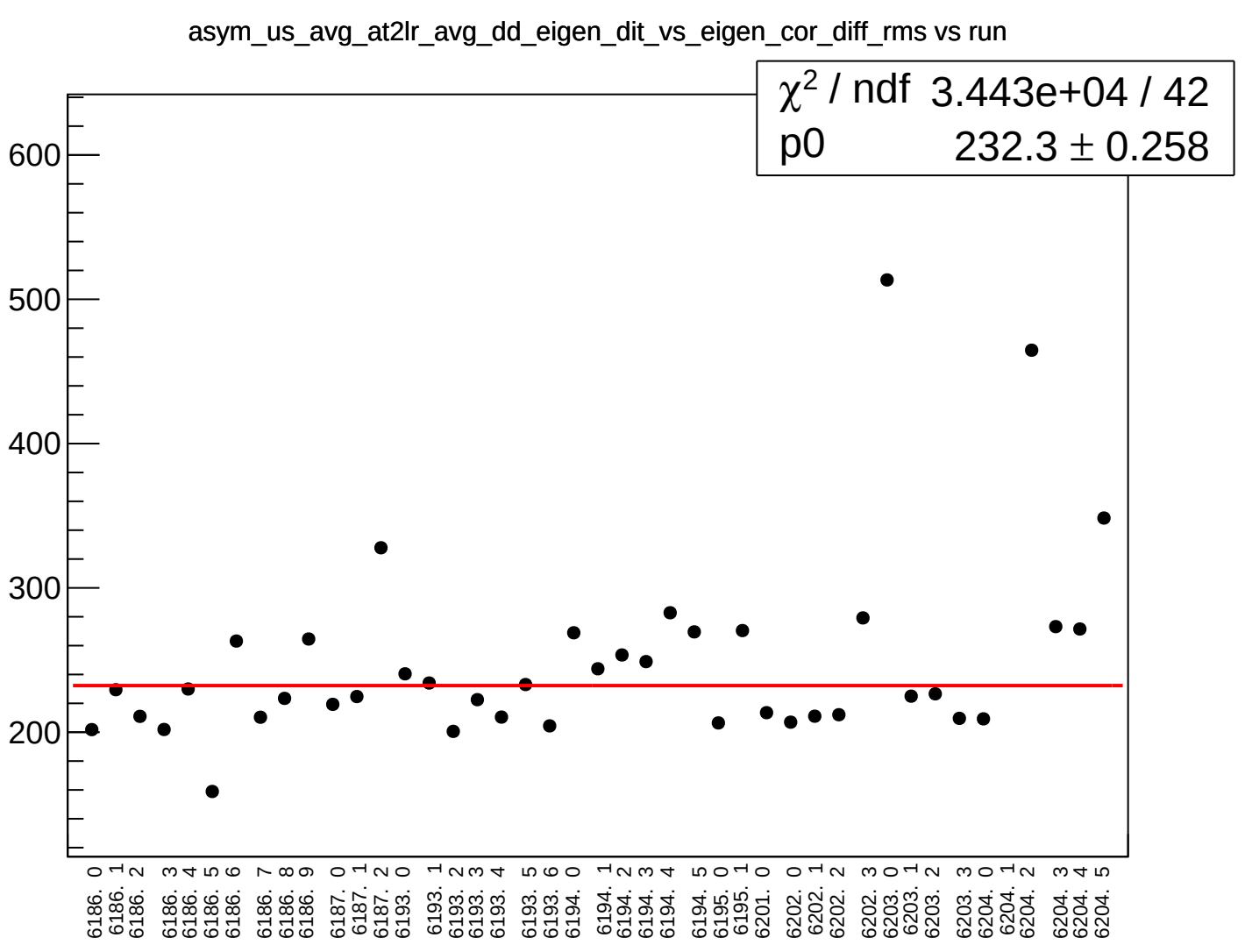

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4068 / 42
p0 0.02656 ± 2.896e−05
0.031
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

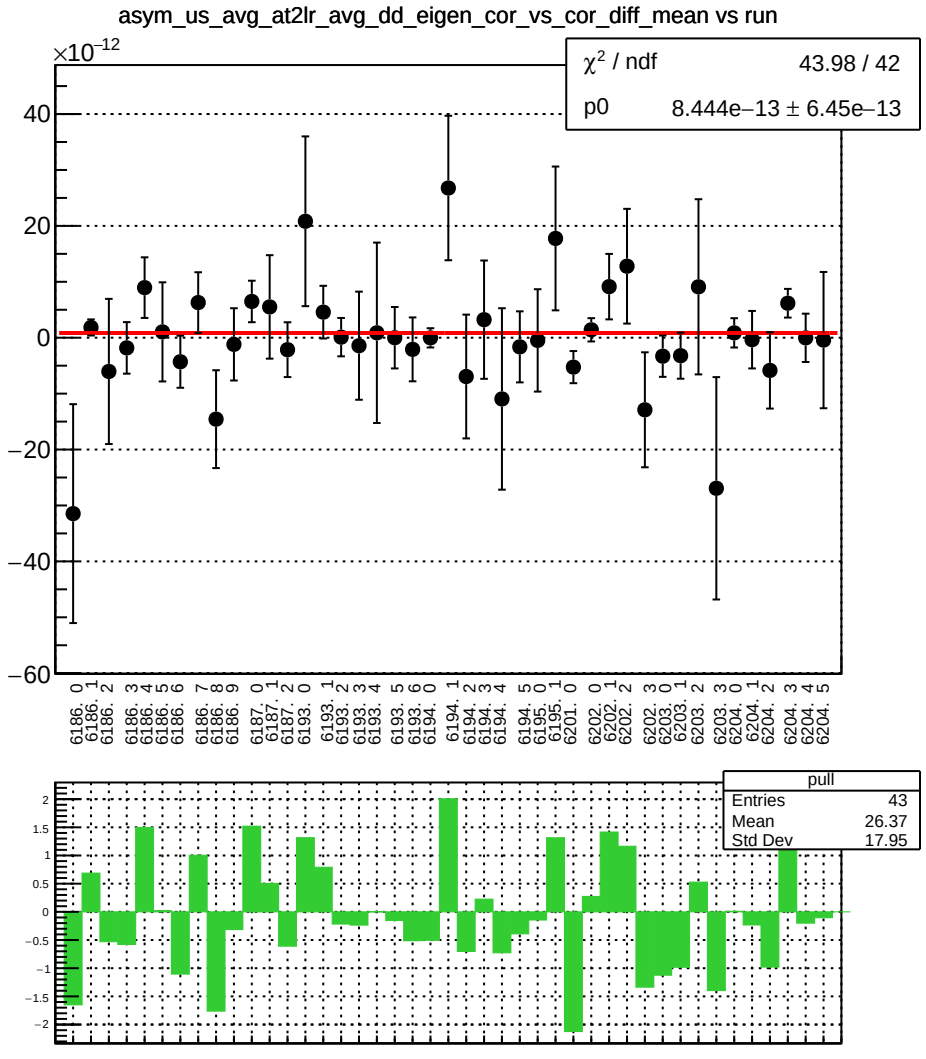

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.29 / 42
p0 −0.3088 ± 0.3648
pull
Entries 43
Mean −95.21
Std Dev 0

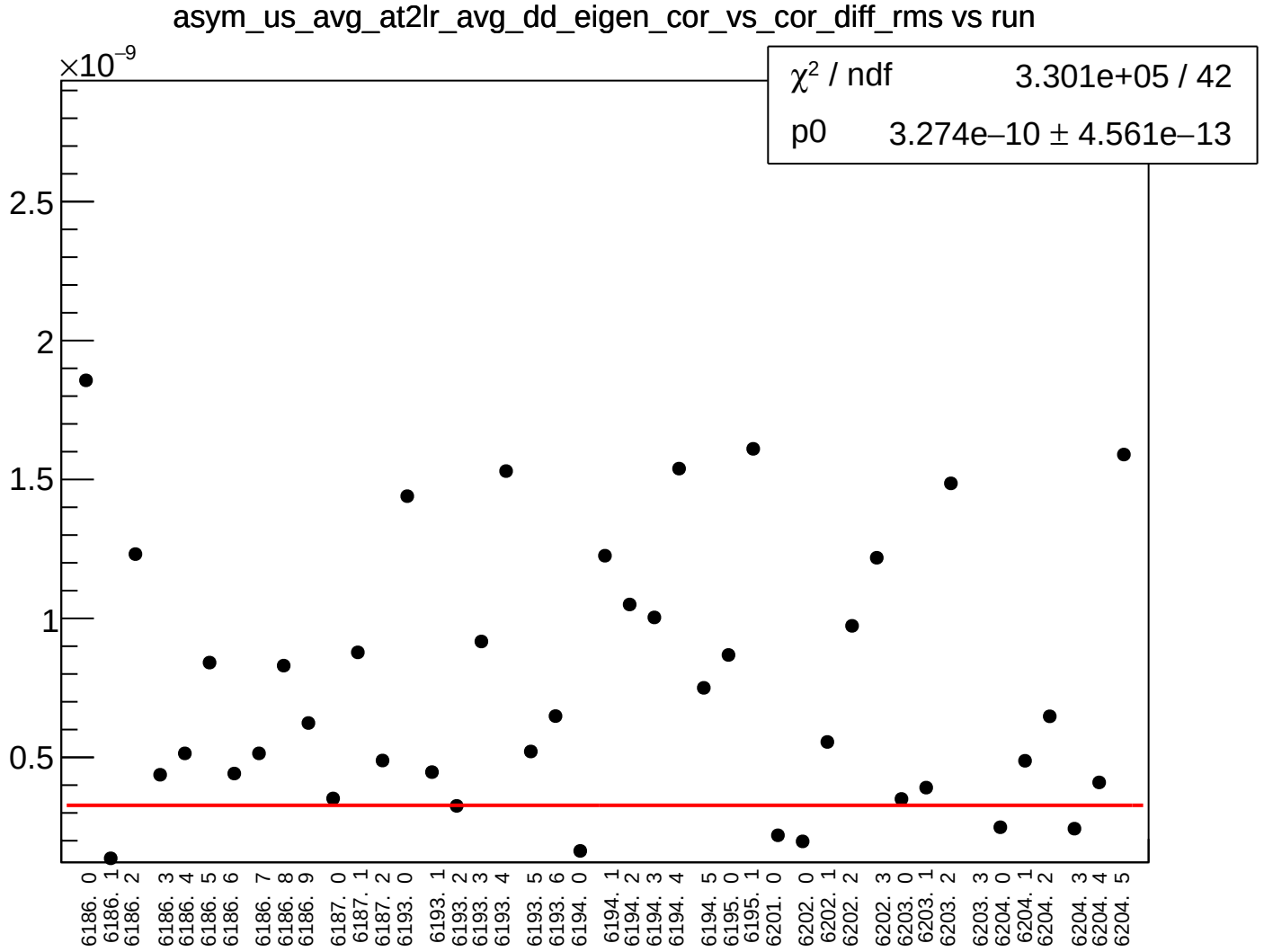

pull1D
Entries 43
Mean 0.01334
Std Dev 1.06

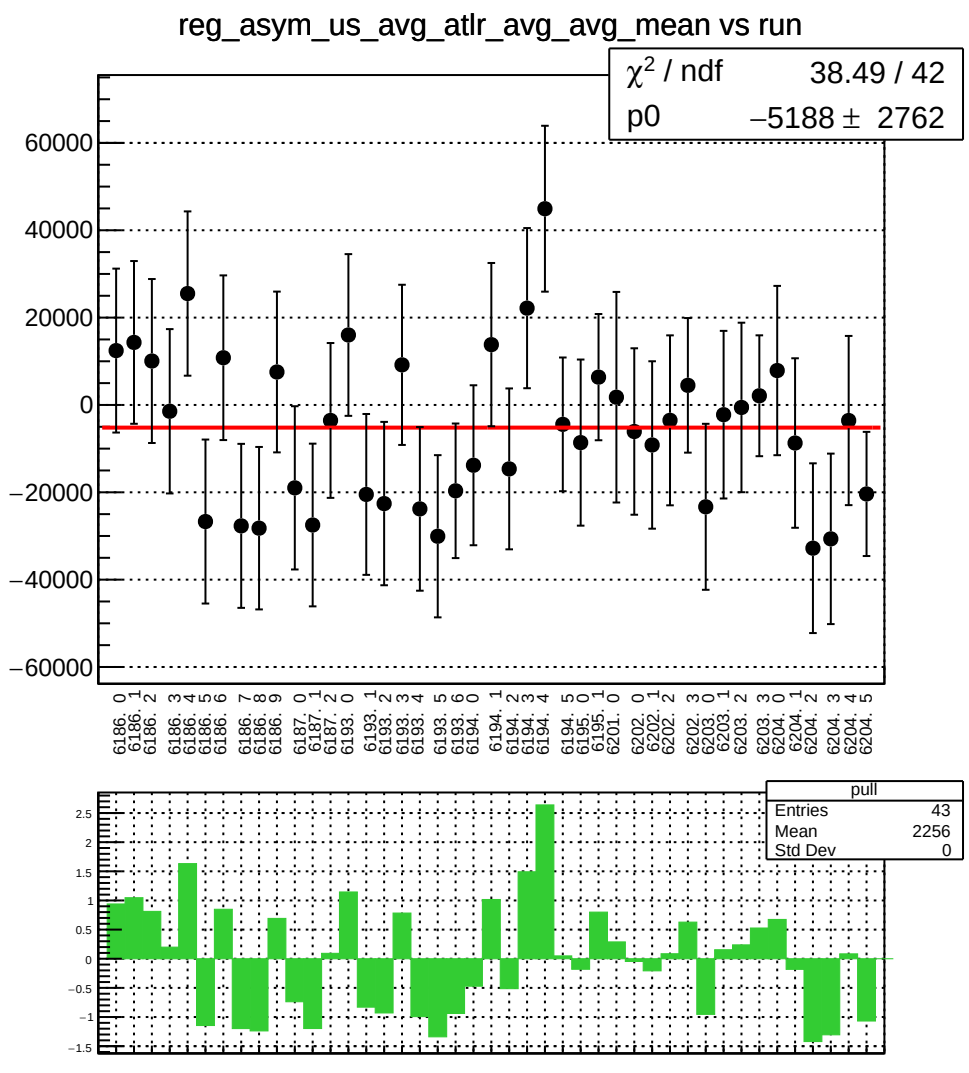

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.443e+04 / 42
p0 232.3 ± 0.258
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

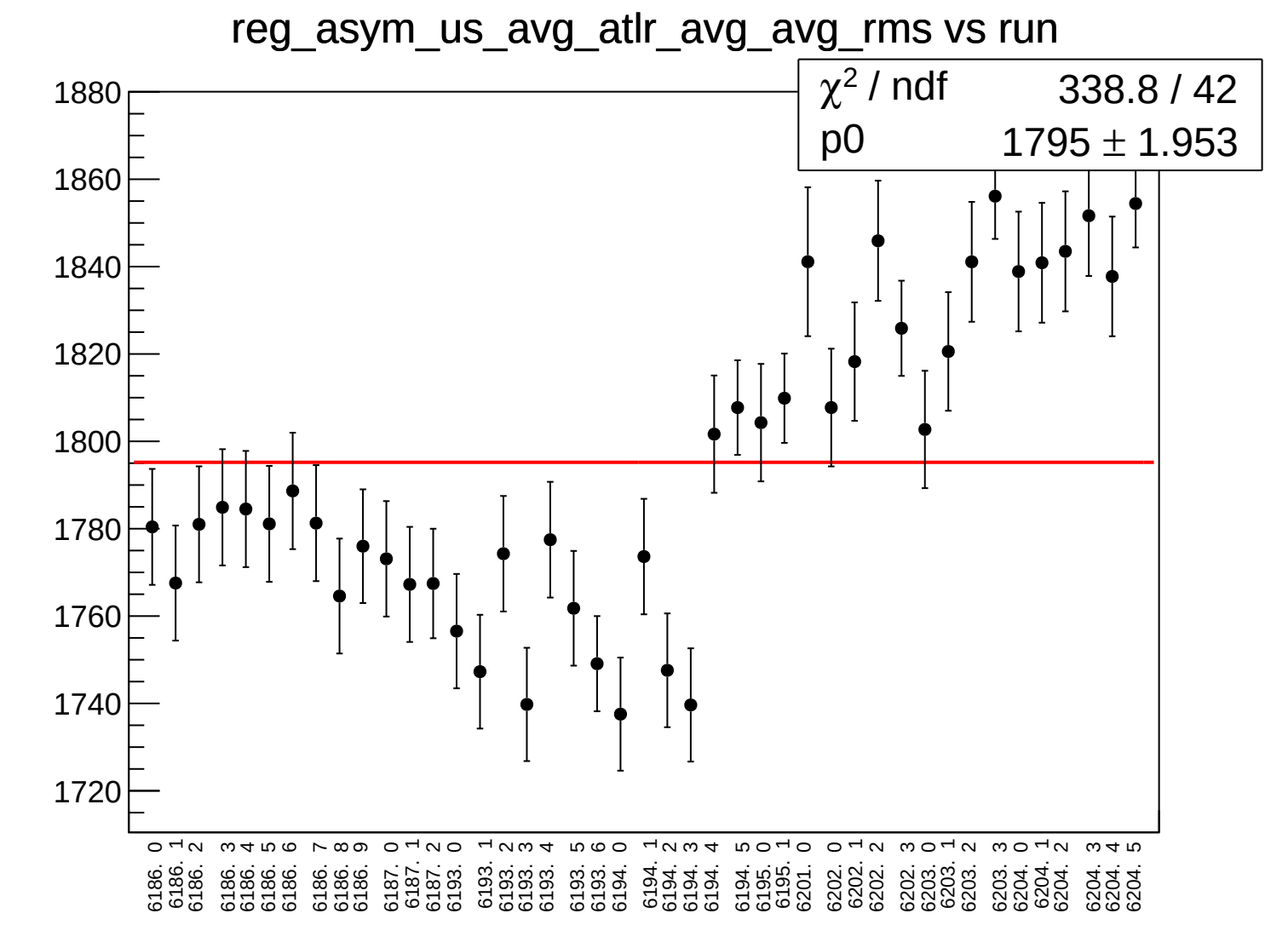

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.29 / 42
p0 −0.3088 ± 0.3648
pull
Entries 43
Mean −95.21
Std Dev 0
pull1D
Entries 43
Mean 0.01334
Std Dev 1.06

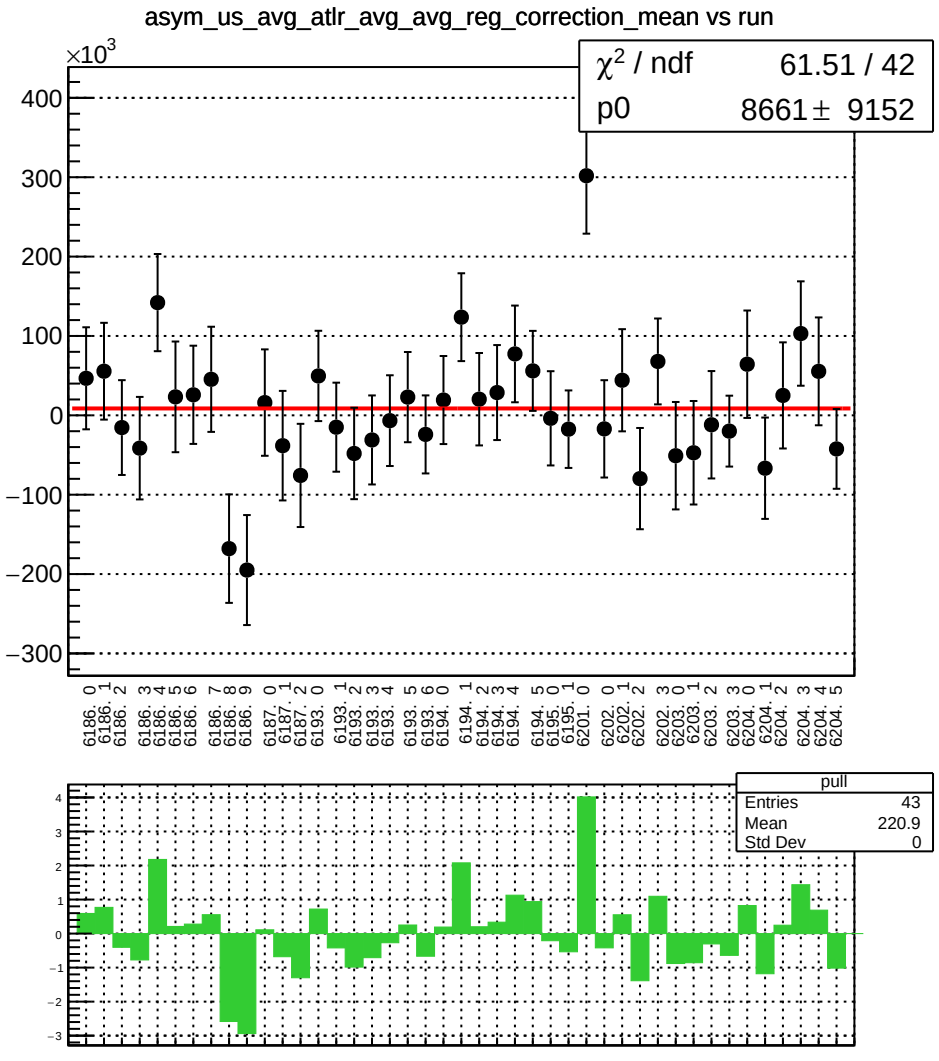

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.443e+04 / 42
p0 232.3 ± 0.258
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

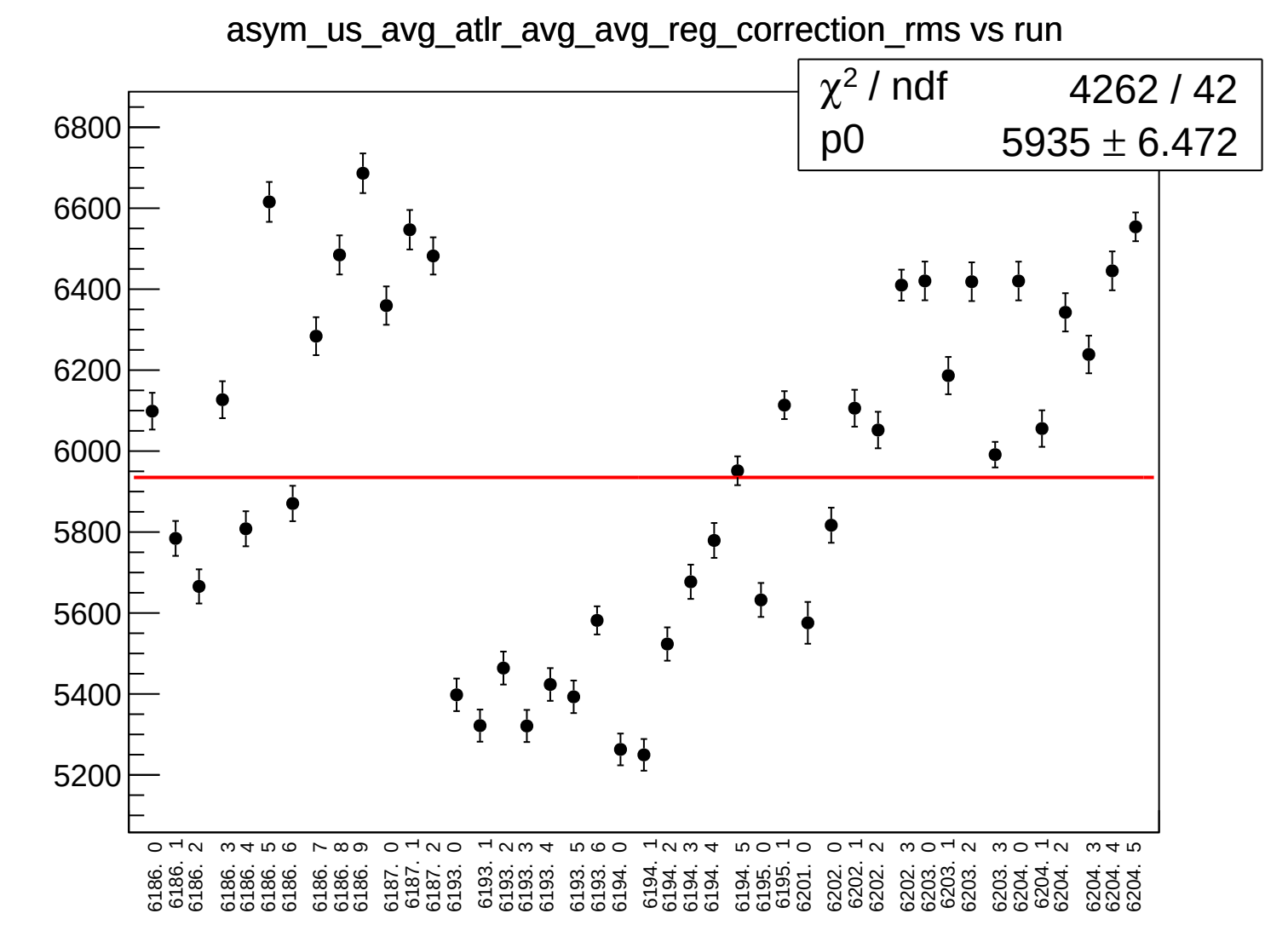

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.98 / 42
p0 8.444e−13 ± 6.45e−13
40
20
0
−20
−40
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 26.37
Std Dev 17.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.05256
Std Dev 1.01
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

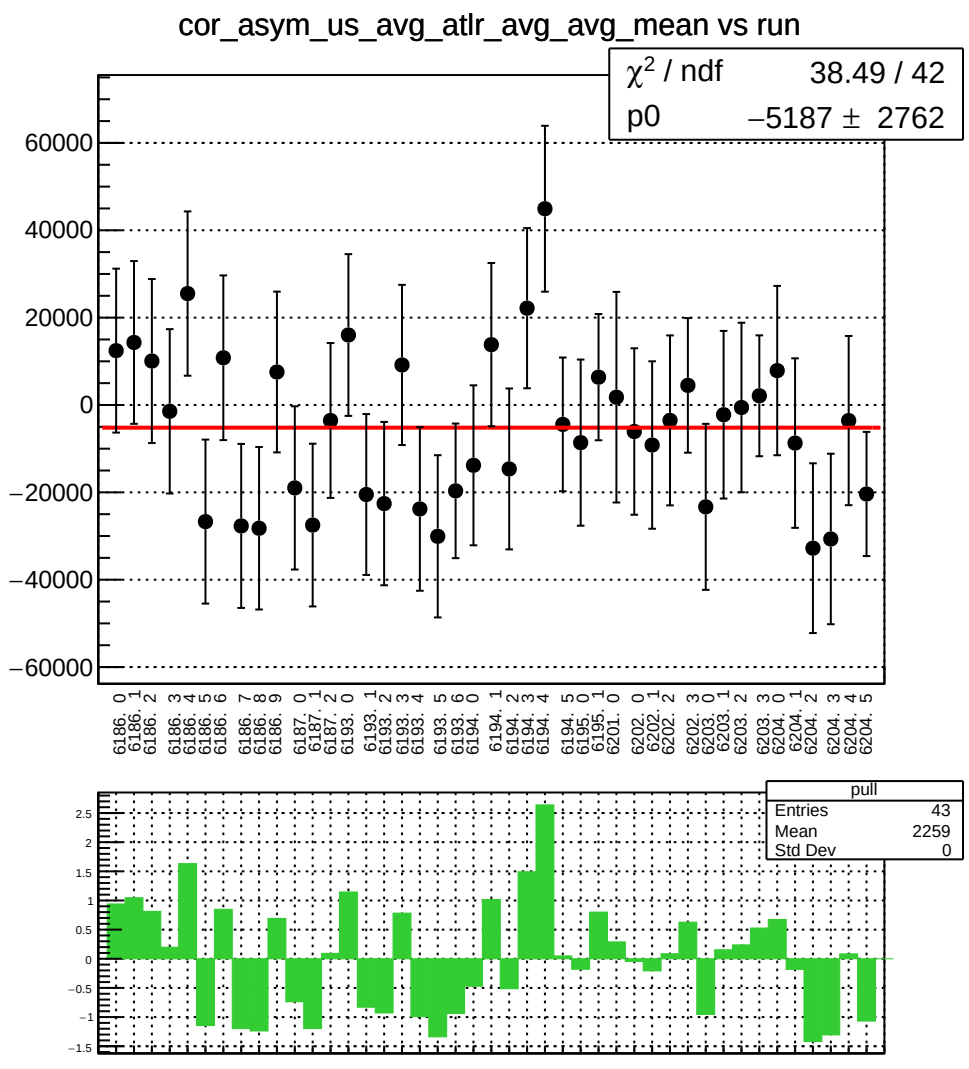

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.301e+05 / 42
p0 3.274e−10 ± 4.561e−13
2.5
2
1.5
1
0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

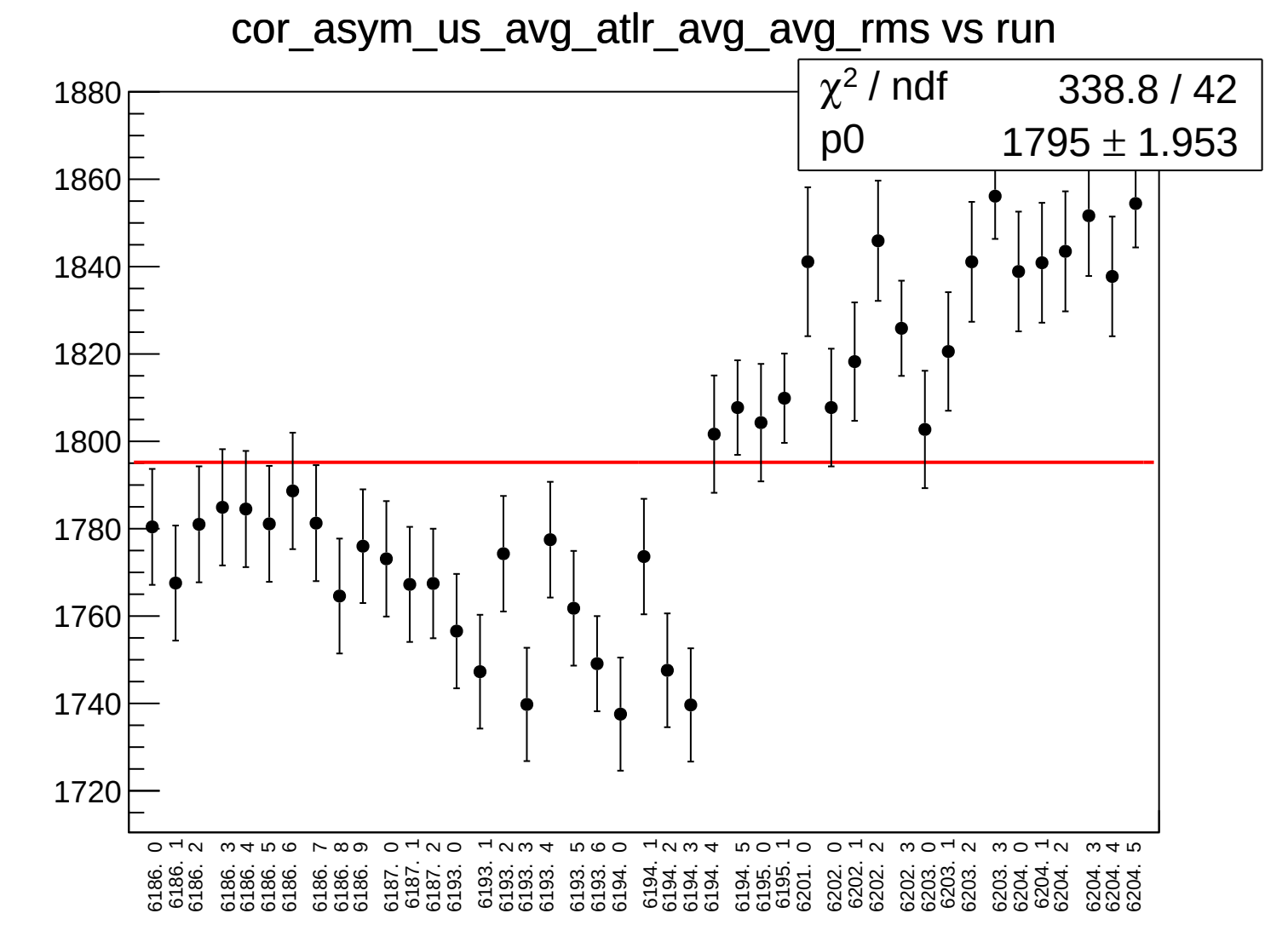

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 38.49 / 42
p0 −5188 ± 2762
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2256
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.0007181
Std Dev 0.9461
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

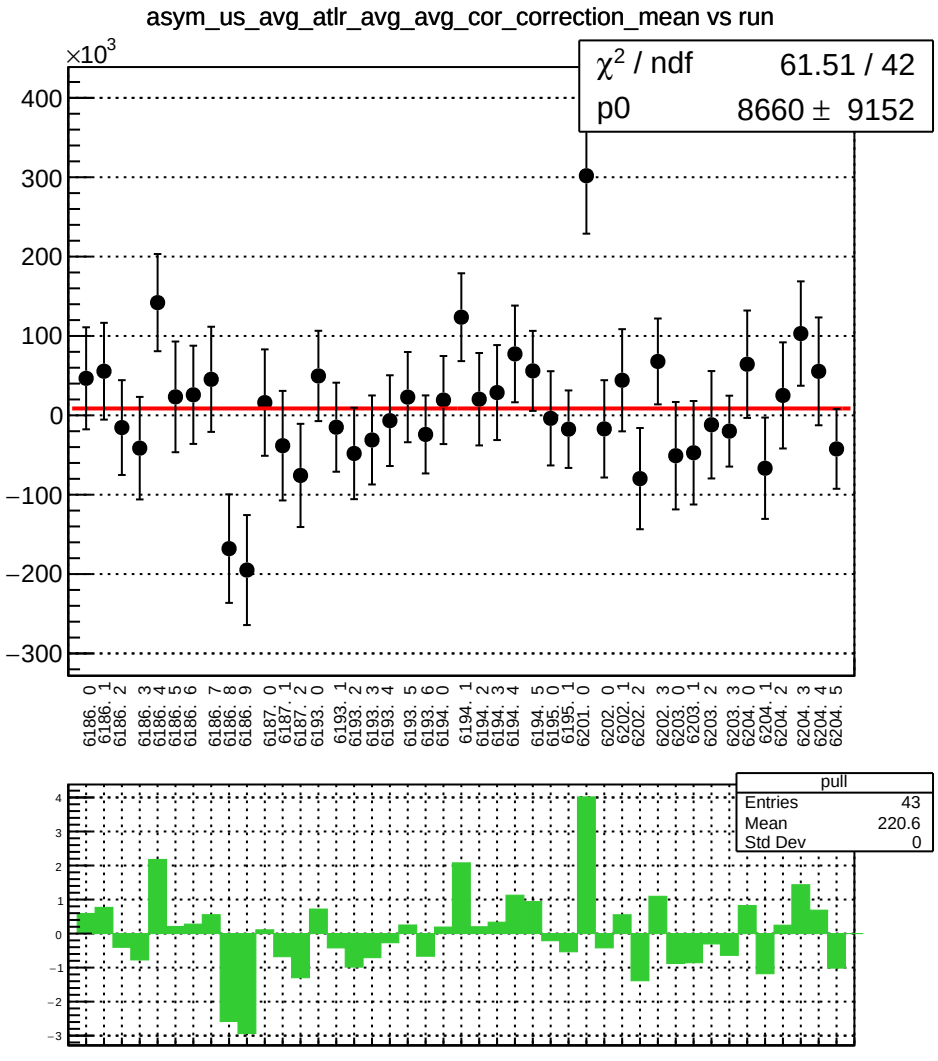

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 338.8 / 42
p0 1795 ± 1.953
1880
1860
1840
1820
1800
1780
1760
1740
1720
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

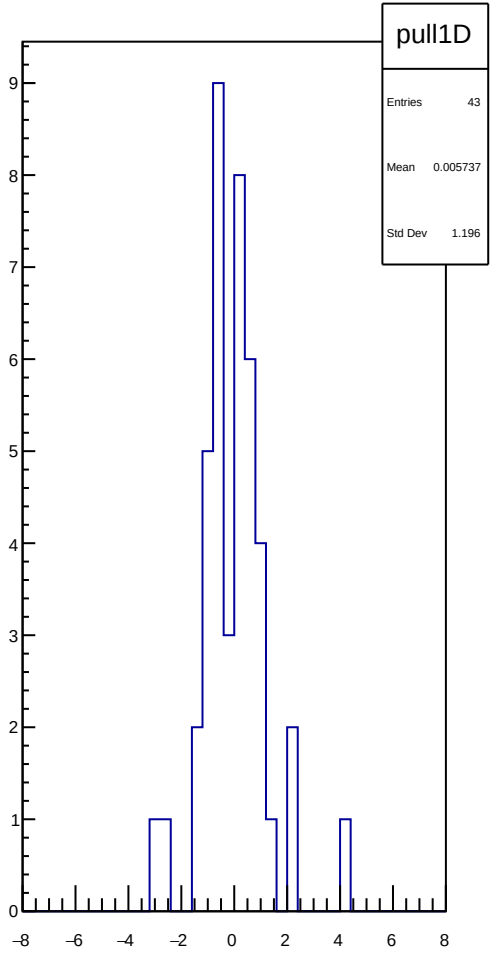

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 61.51 / 42
p0 8661 ± 9152
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 220.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.005728
Std Dev 1.196
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

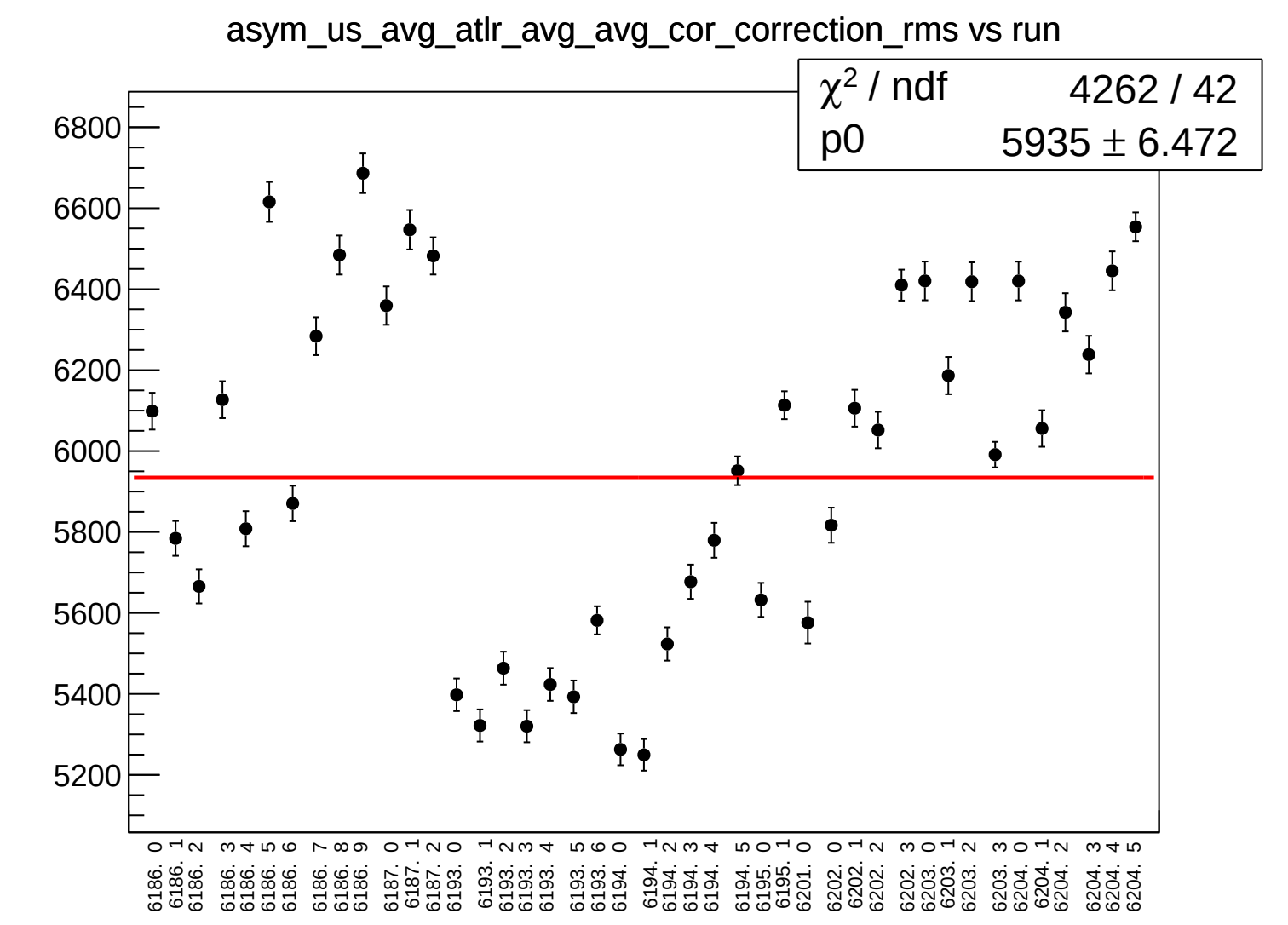

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 4262 / 42
p0 5935 ± 6.472
6800
6600
6400
6200
6000
5800
5600
5400
5200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

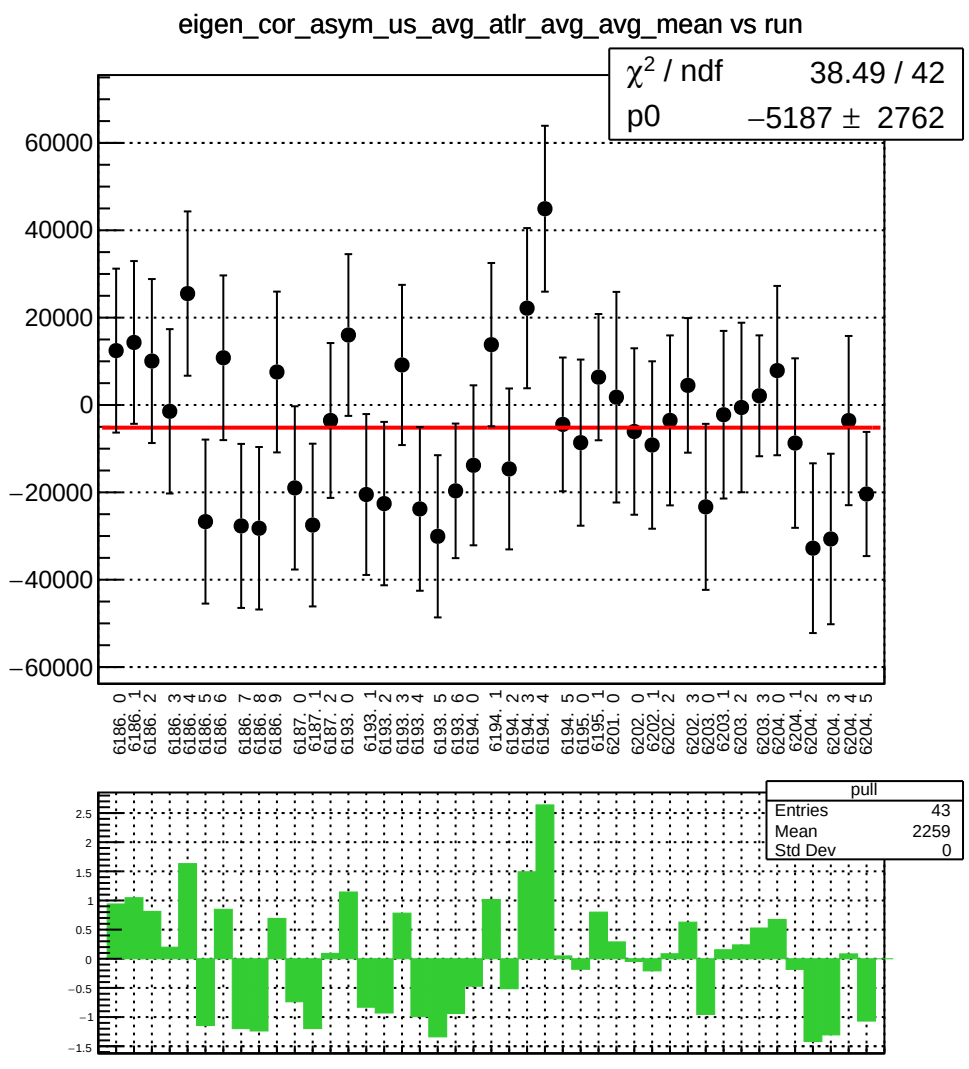

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 38.49 / 42
p0 −5187 ± 2762
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2259
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.0007169
Std Dev 0.9461
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

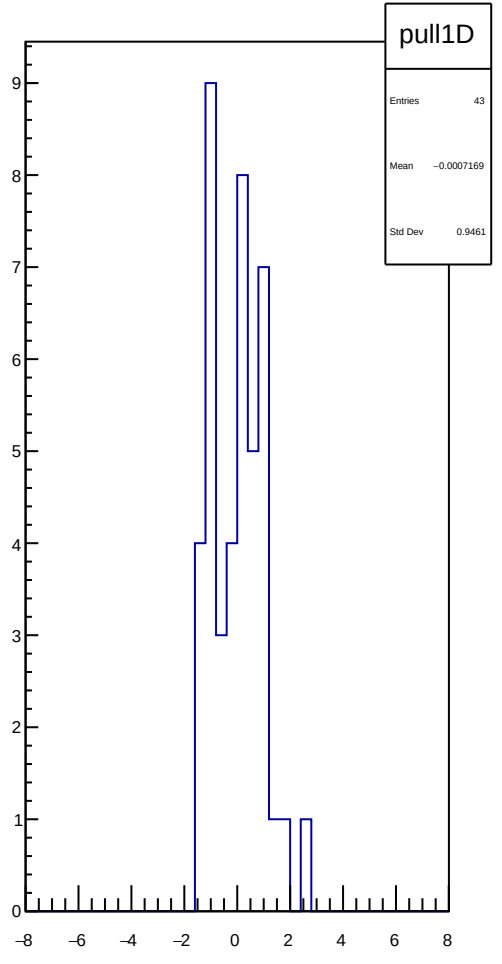

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 338.8 / 42
p0 1795 ± 1.953
1880
1860
1840
1820
1800
1780
1760
1740
1720
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

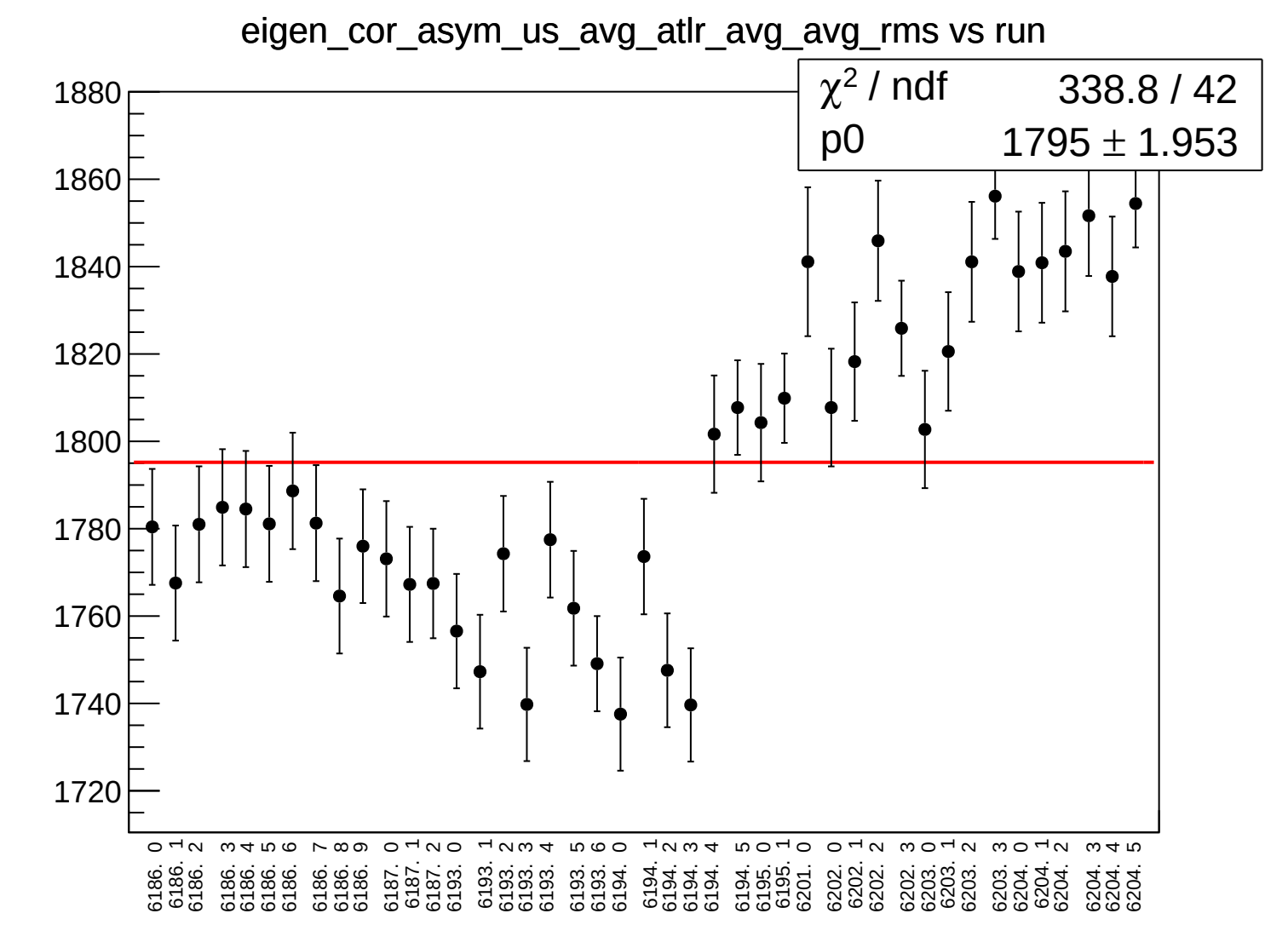

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 61.51 / 42
p0 8660 ± 9152
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 220.6
Std Dev 0
4
3
2
1
0
−1
−2
−3

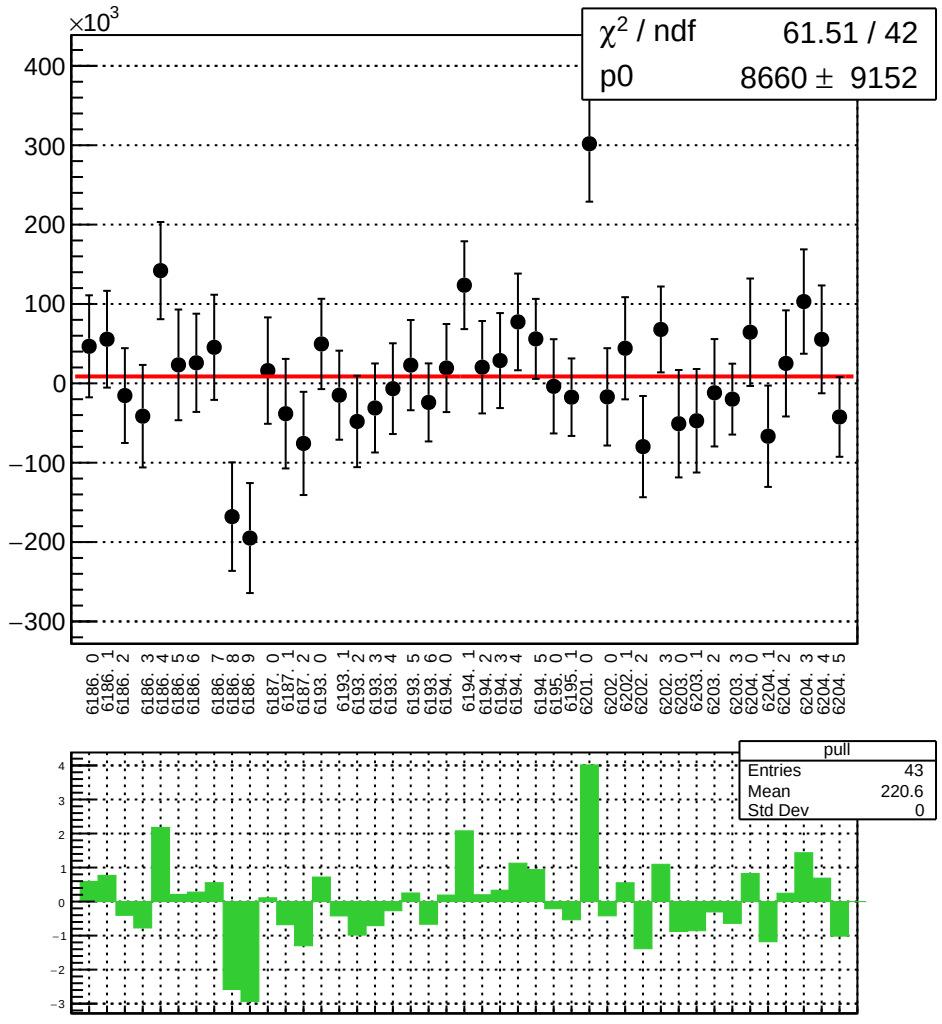

pull1D
Entries 43
Mean 0.005737
Std Dev 1.196
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

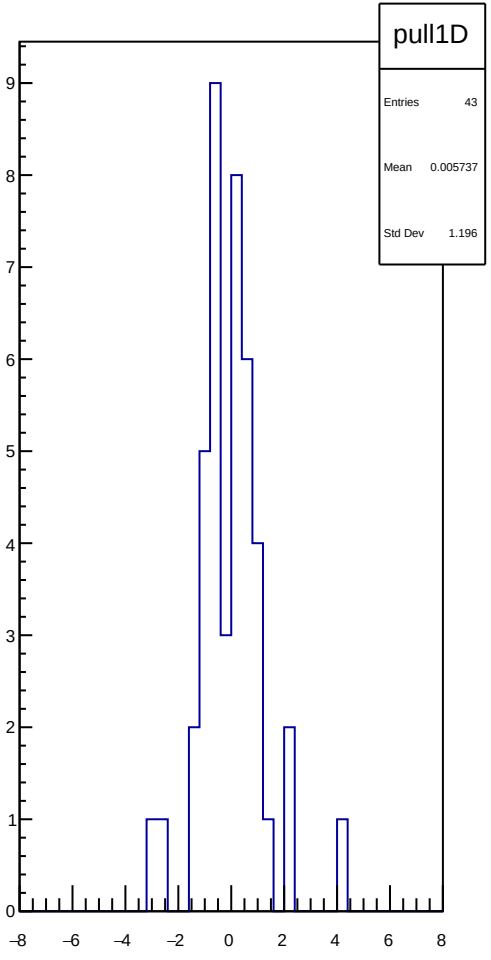

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 4262 / 42
p0 5935 ± 6.472
6800
6600
6400
6200
6000
5800
5600
5400
5200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

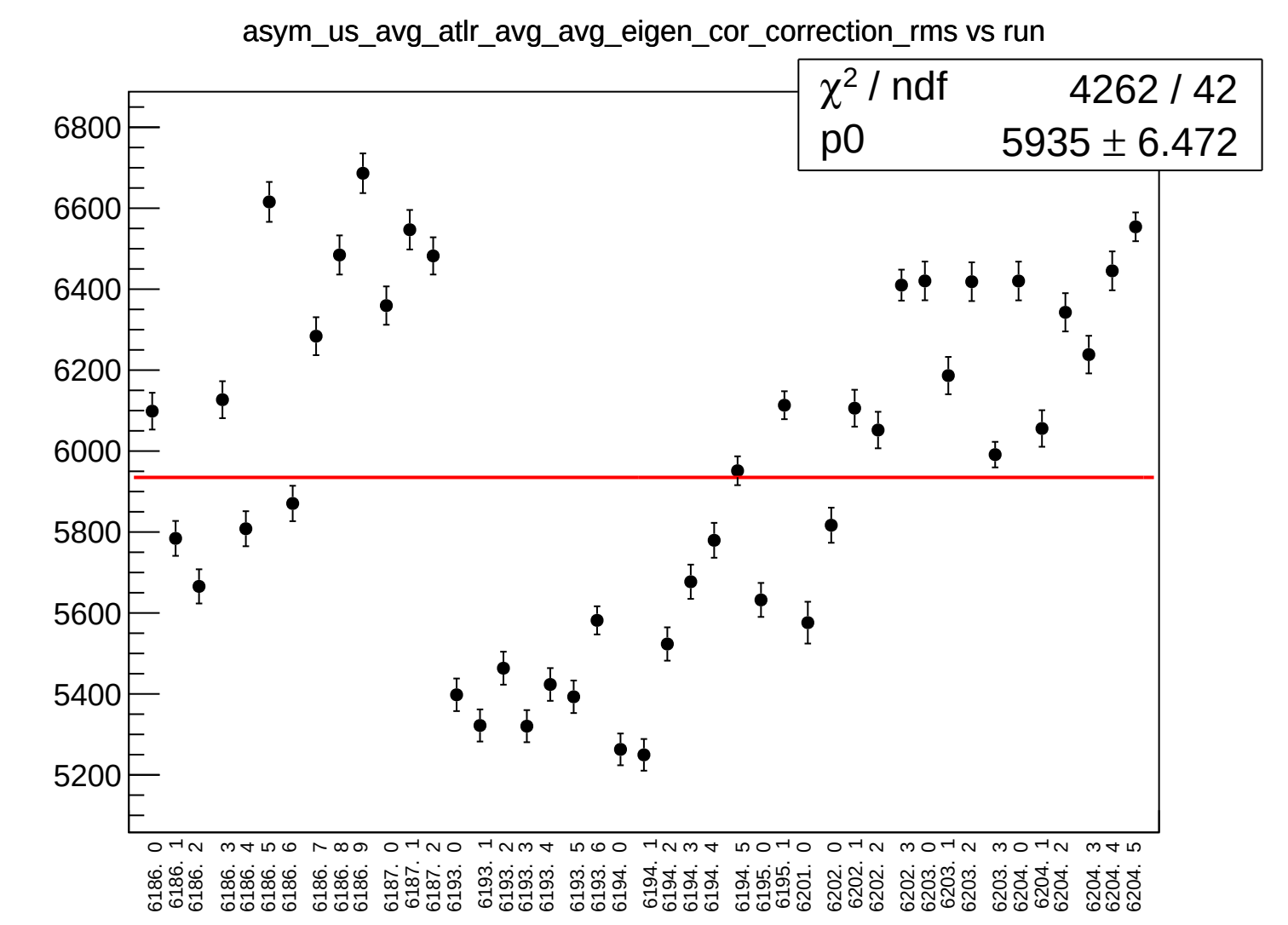

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 38.49 / 42
p0 −5187 ± 2762
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2259
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

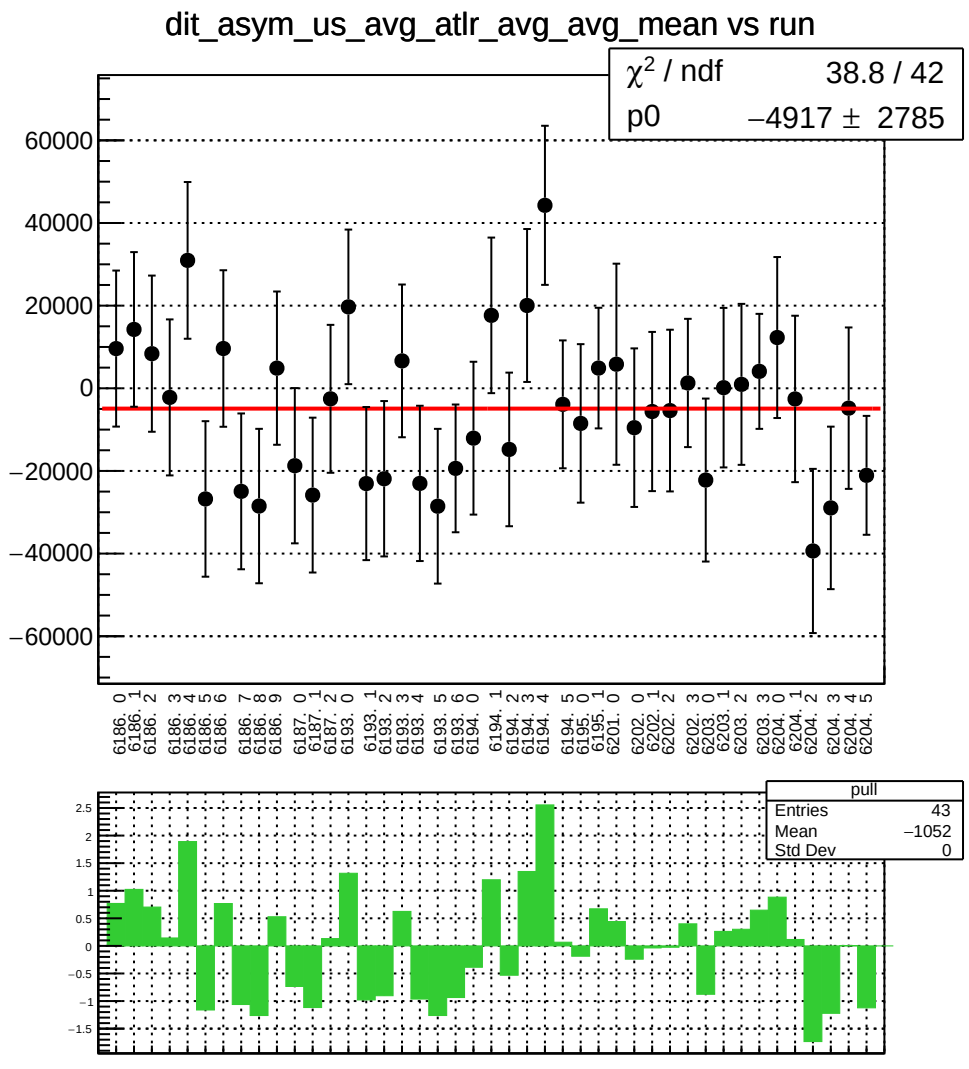

pull1D
Entries 43
Mean −0.0007169
Std Dev 0.9461
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

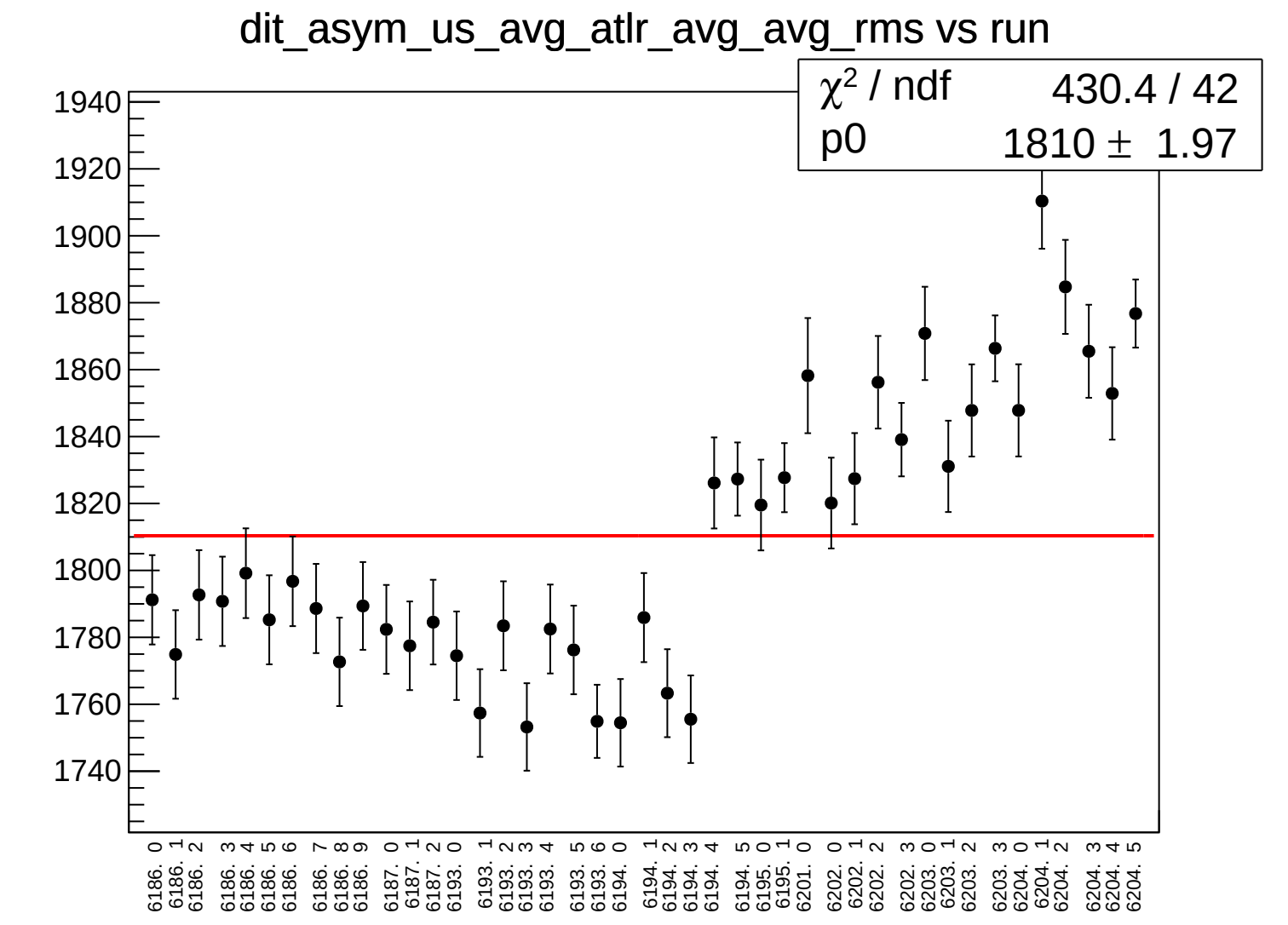

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 338.8 / 42
p0 1795 ± 1.953
1880
1860
1840
1820
1800
1780
1760
1740
1720
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

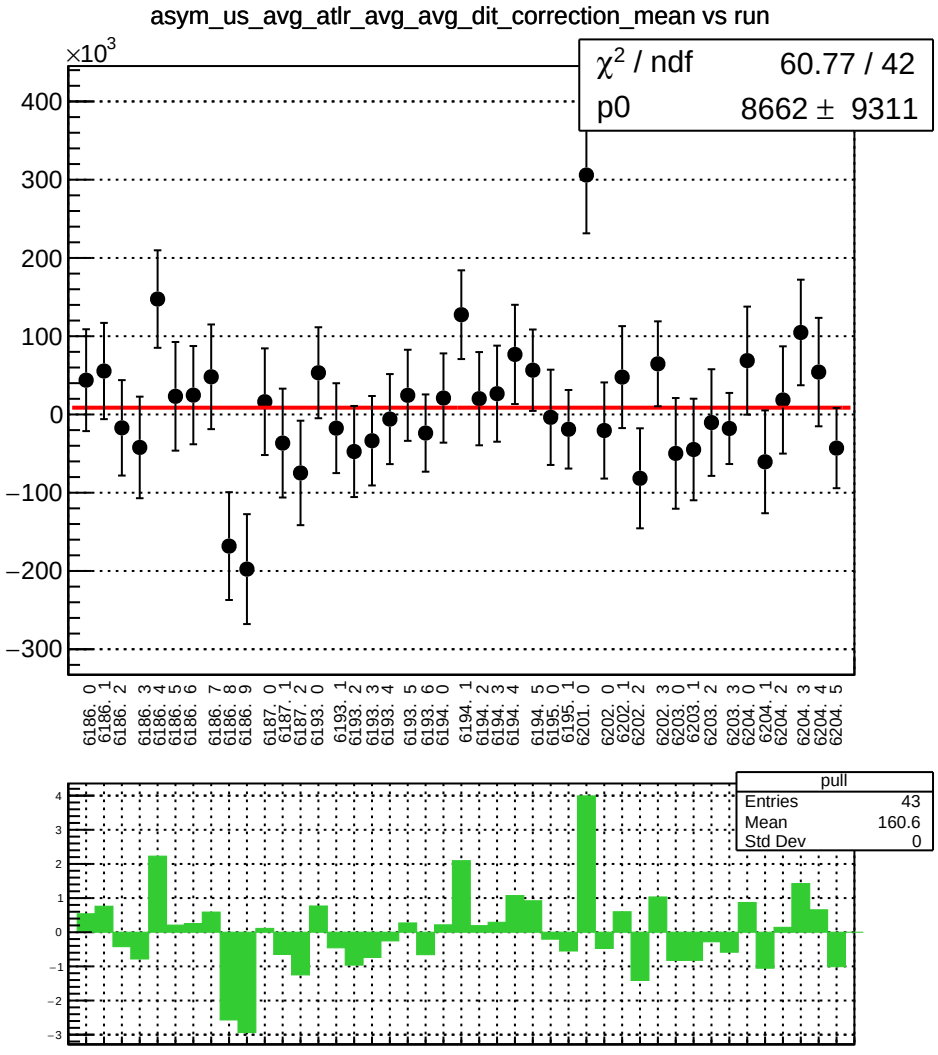

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 61.51 / 42
p0 8660 ± 9152
pull
Entries 43
Mean 220.6
Std Dev 0

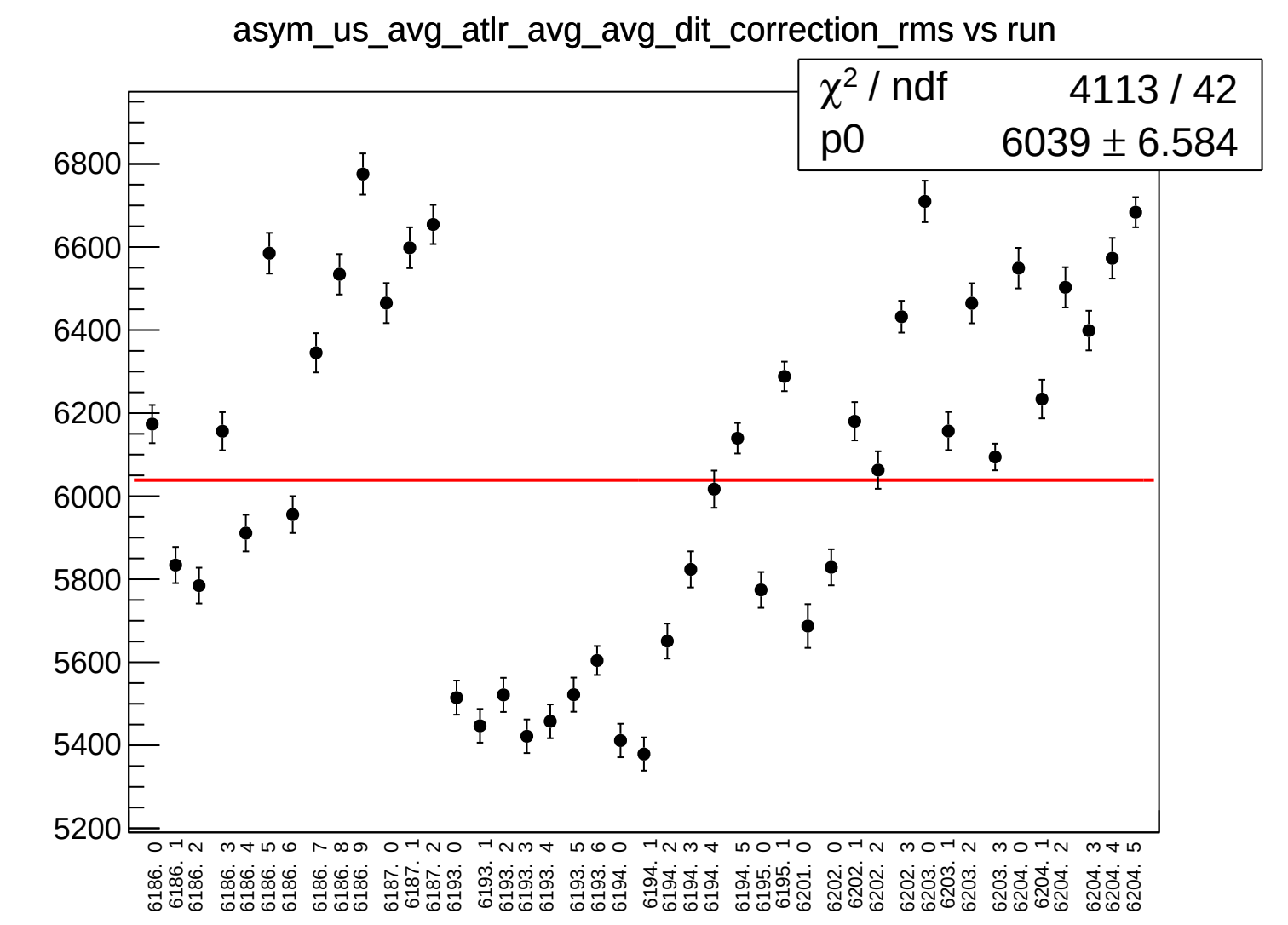

pull1D
Entries 43
Mean 0.005737
Std Dev 1.196

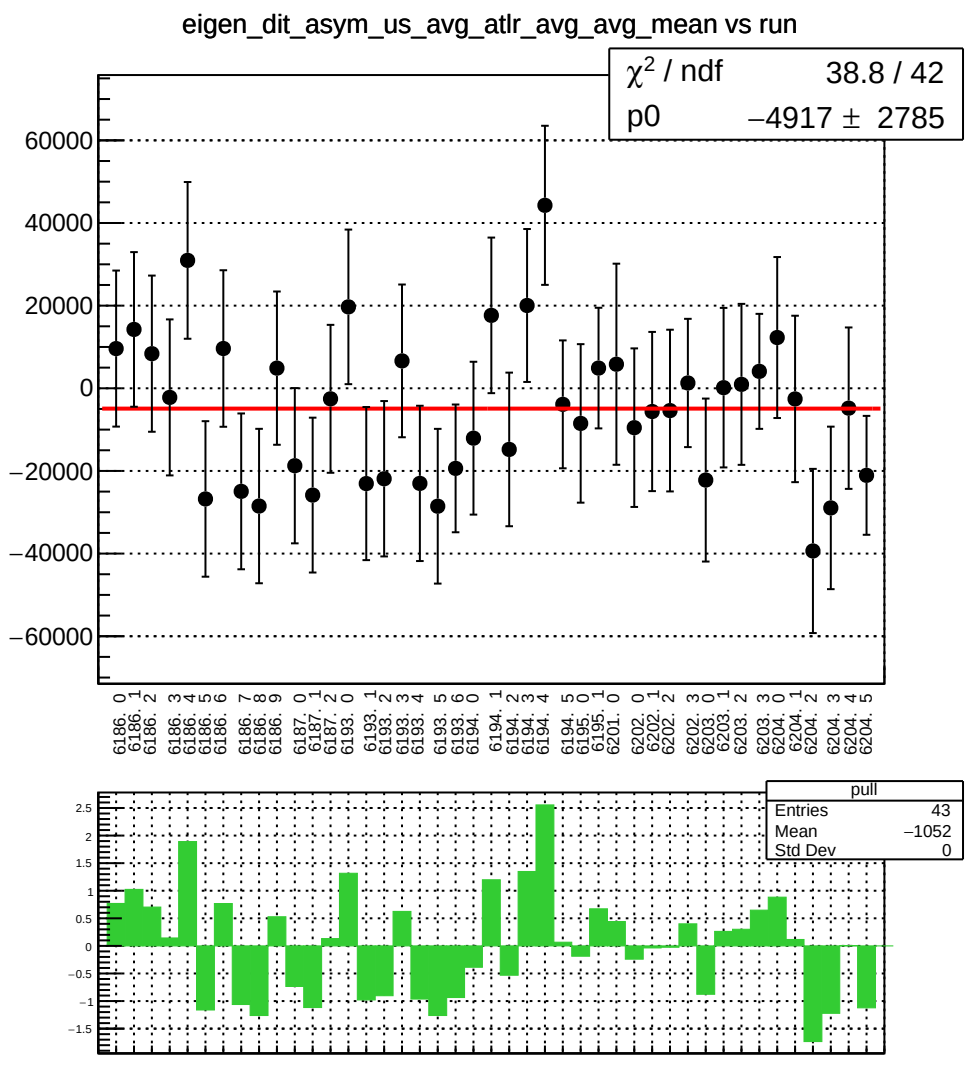

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4262 / 42
p0 5935 ± 6.472
6800
6600
6400
6200
6000
5800
5600
5400
5200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

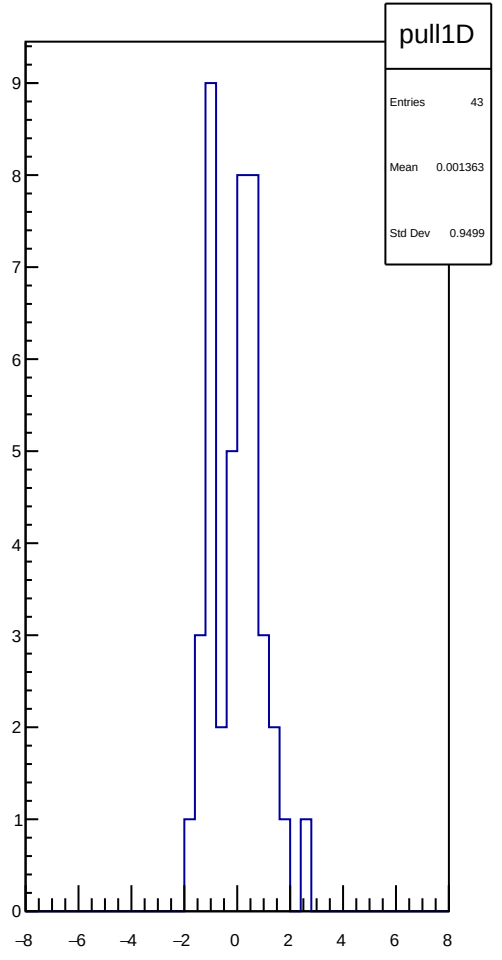

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 38.8 / 42
p0 −4917 ± 2785
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1052
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.001363
Std Dev 0.9499
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

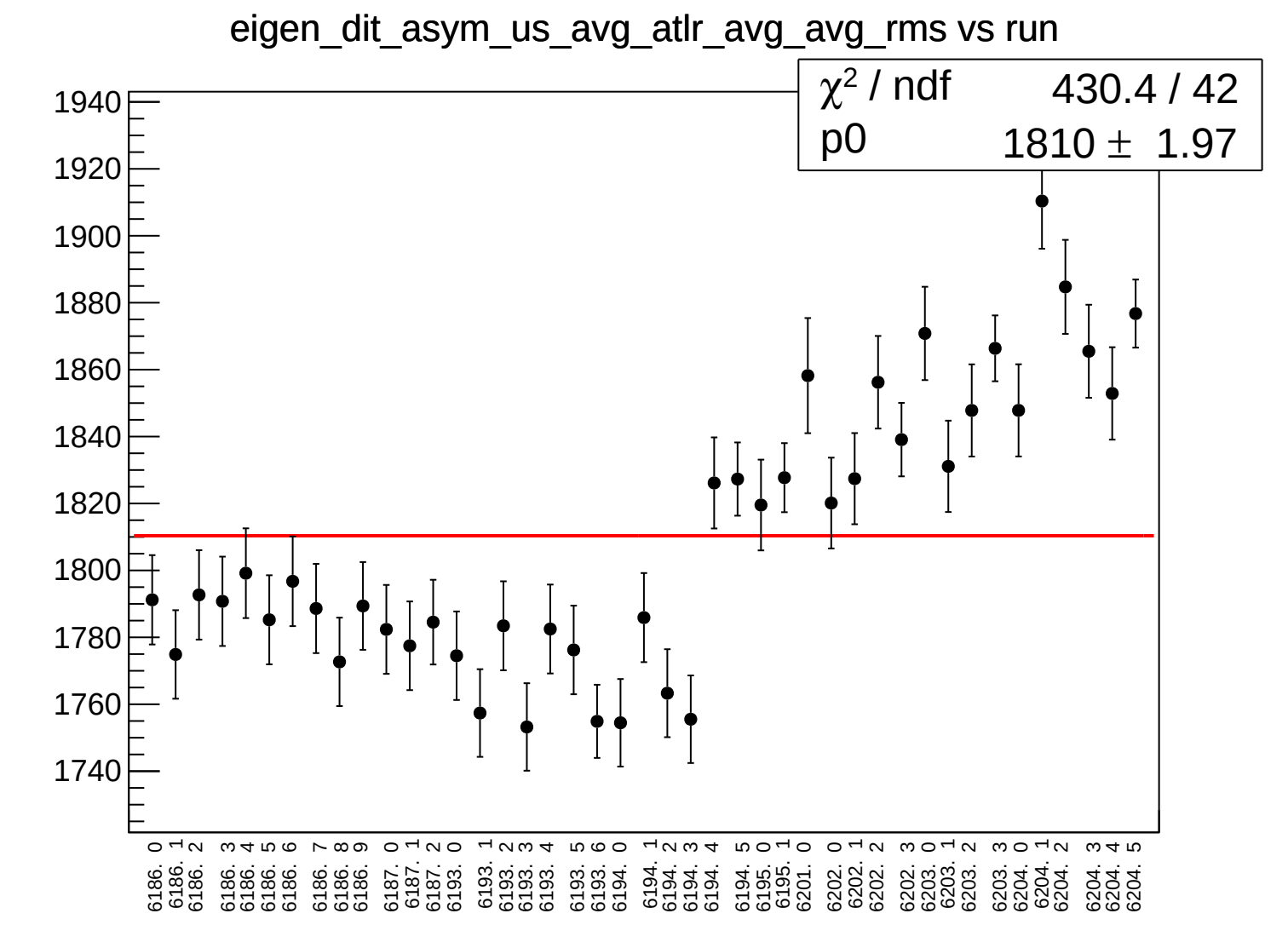

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 430.4 / 42
p0 1810 ± 1.97
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

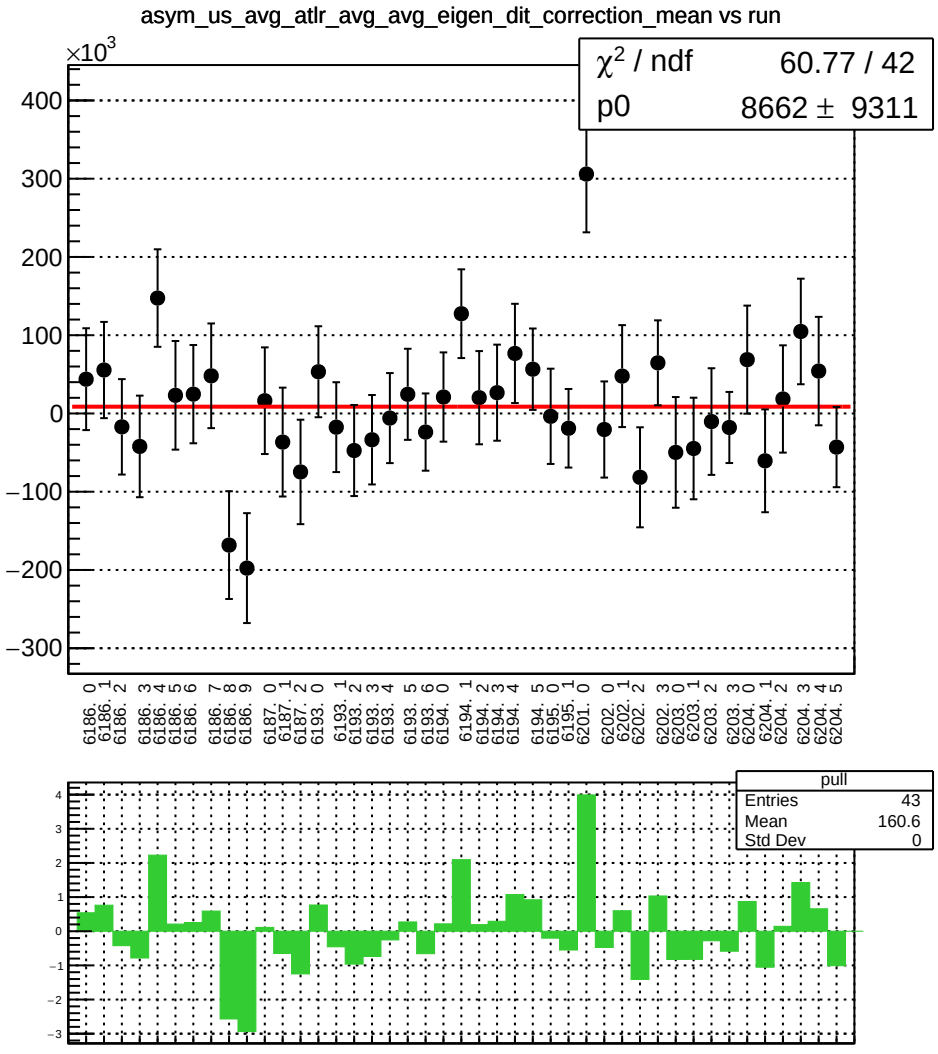

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 60.77 / 42
p0 8662 ± 9311
400
300
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 160.6
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.008314
Std Dev 1.189
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

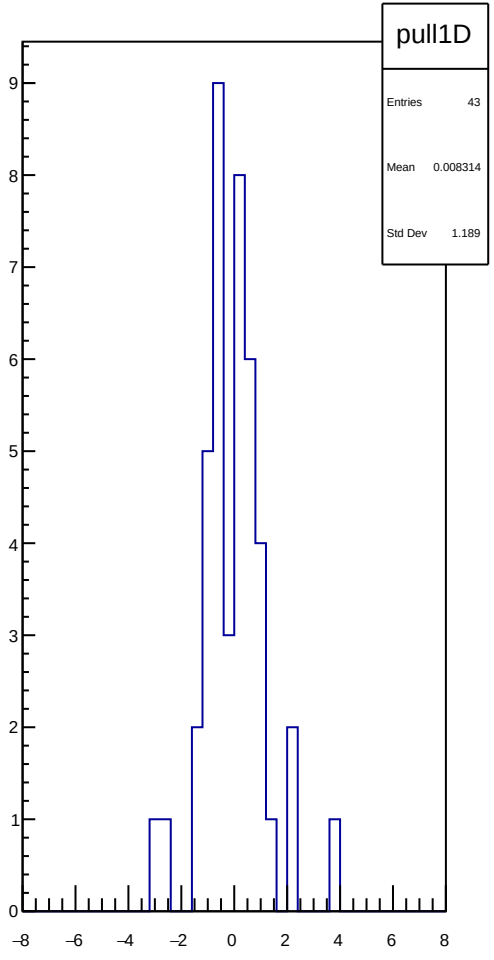

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 4113 / 42
p0 6039 ± 6.584
6800
6600
6400
6200
6000
5800
5600
5400
5200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

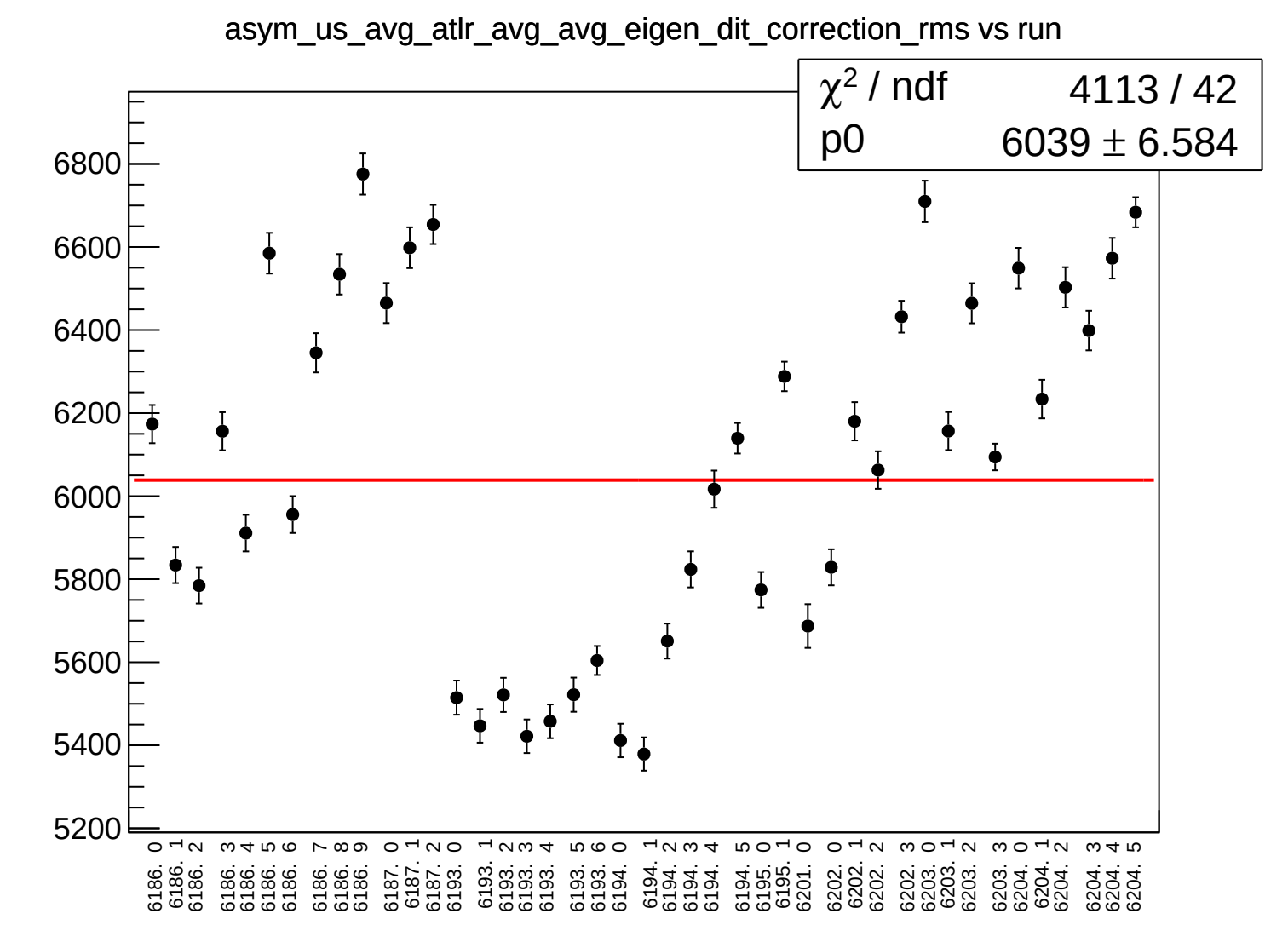

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 38.8 / 42
p0 −4917 ± 2785
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1052
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

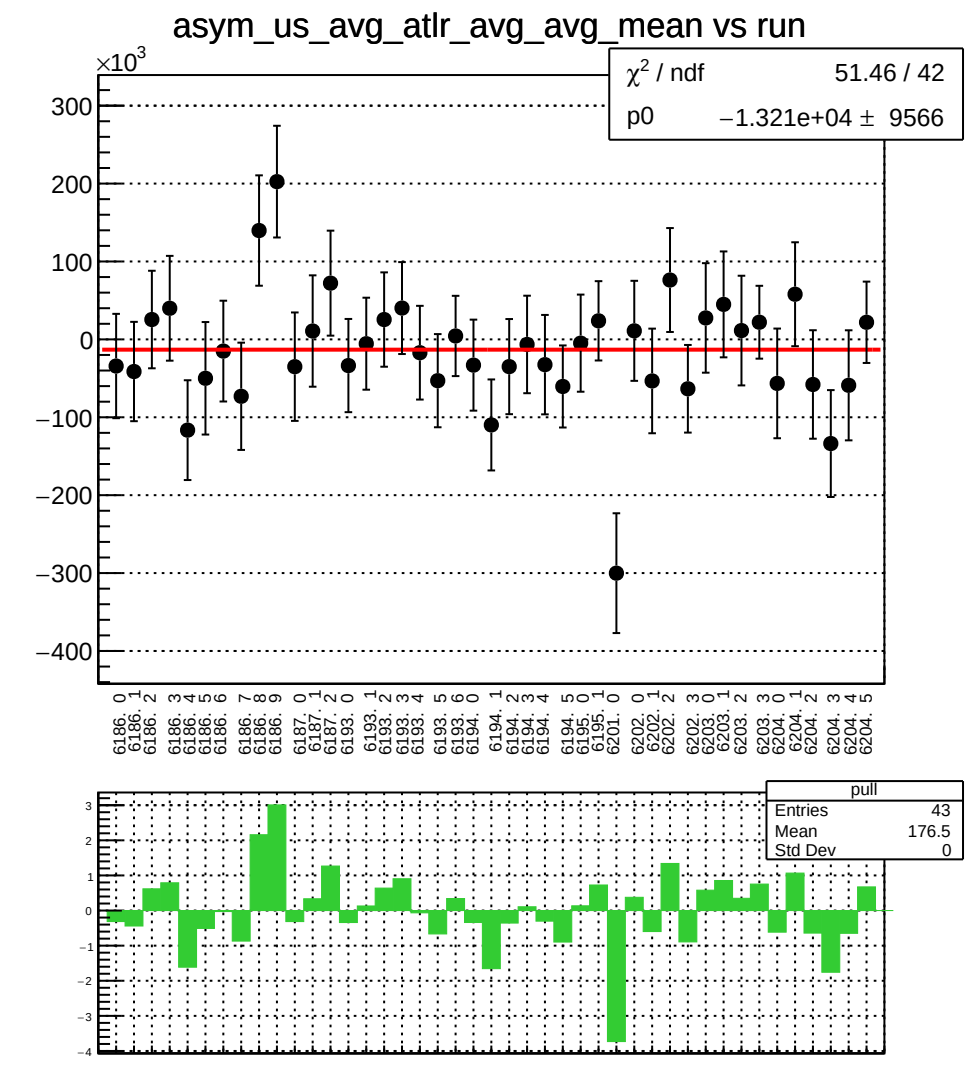

pull1D
Entries 43
Mean 0.001363
Std Dev 0.9499
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

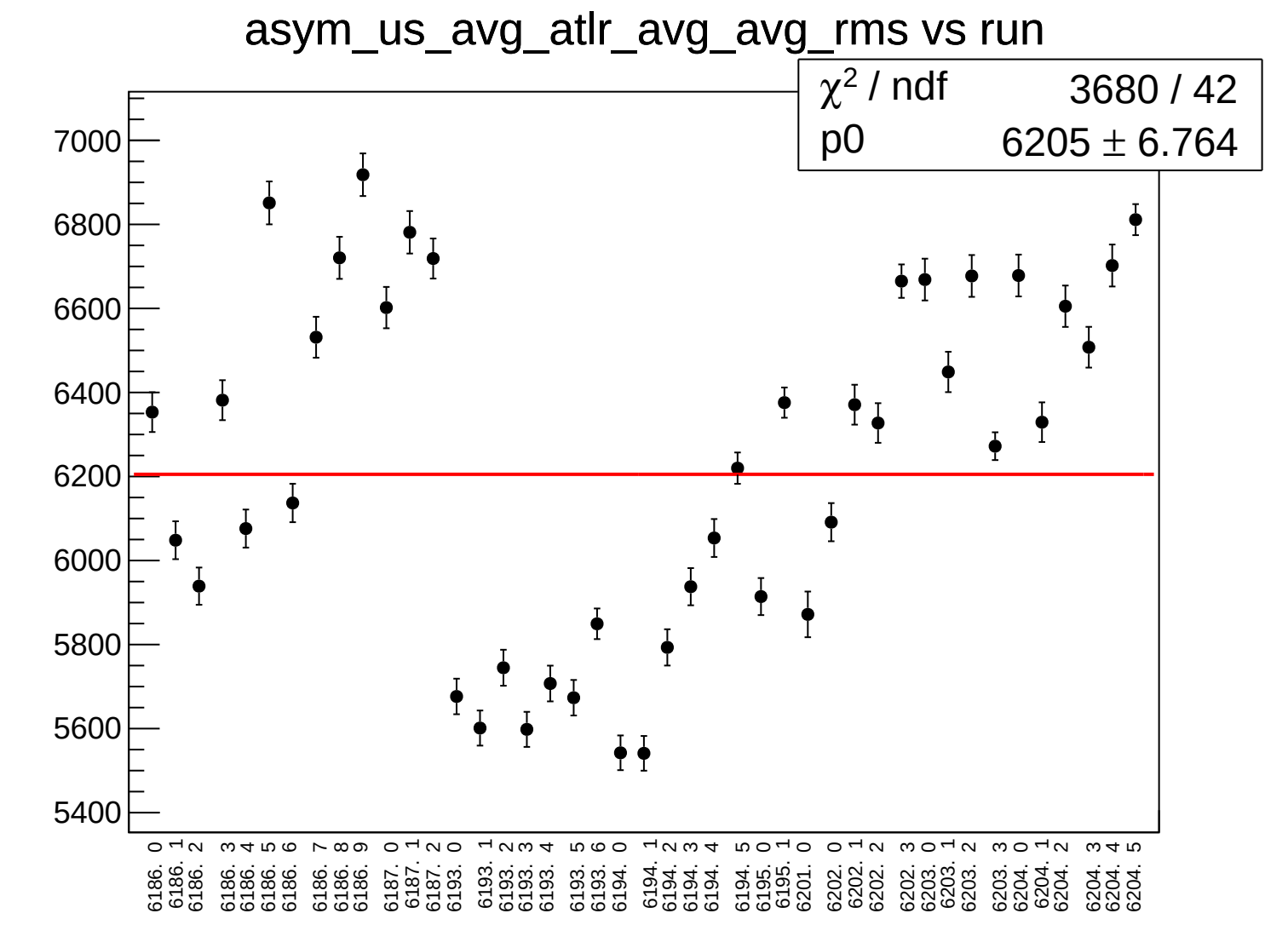

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 430.4 / 42
p0 1810 ± 1.97
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

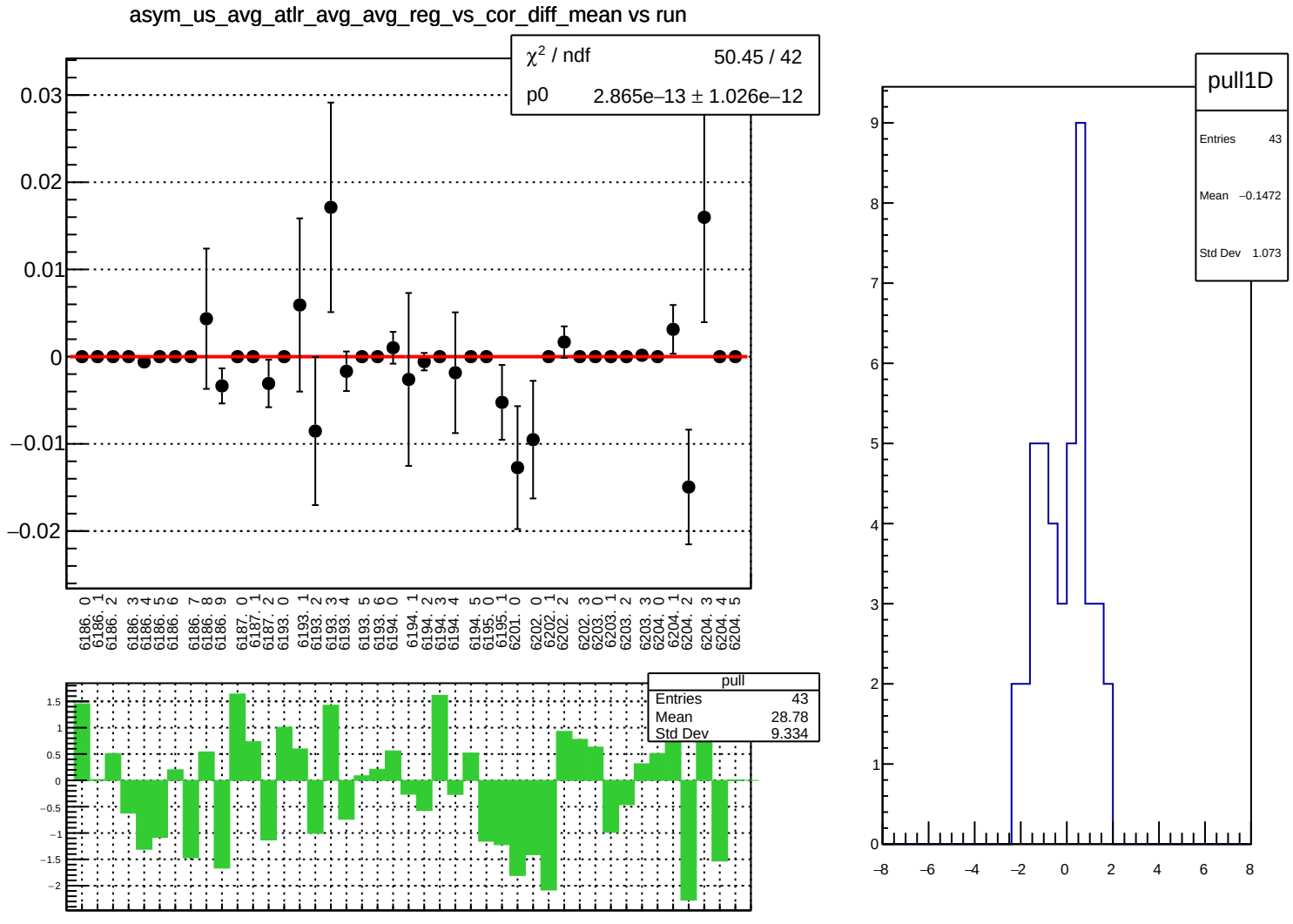

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 60.77 / 42
p0 8662 ± 9311
pull
Entries 43
Mean 160.6
Std Dev 0

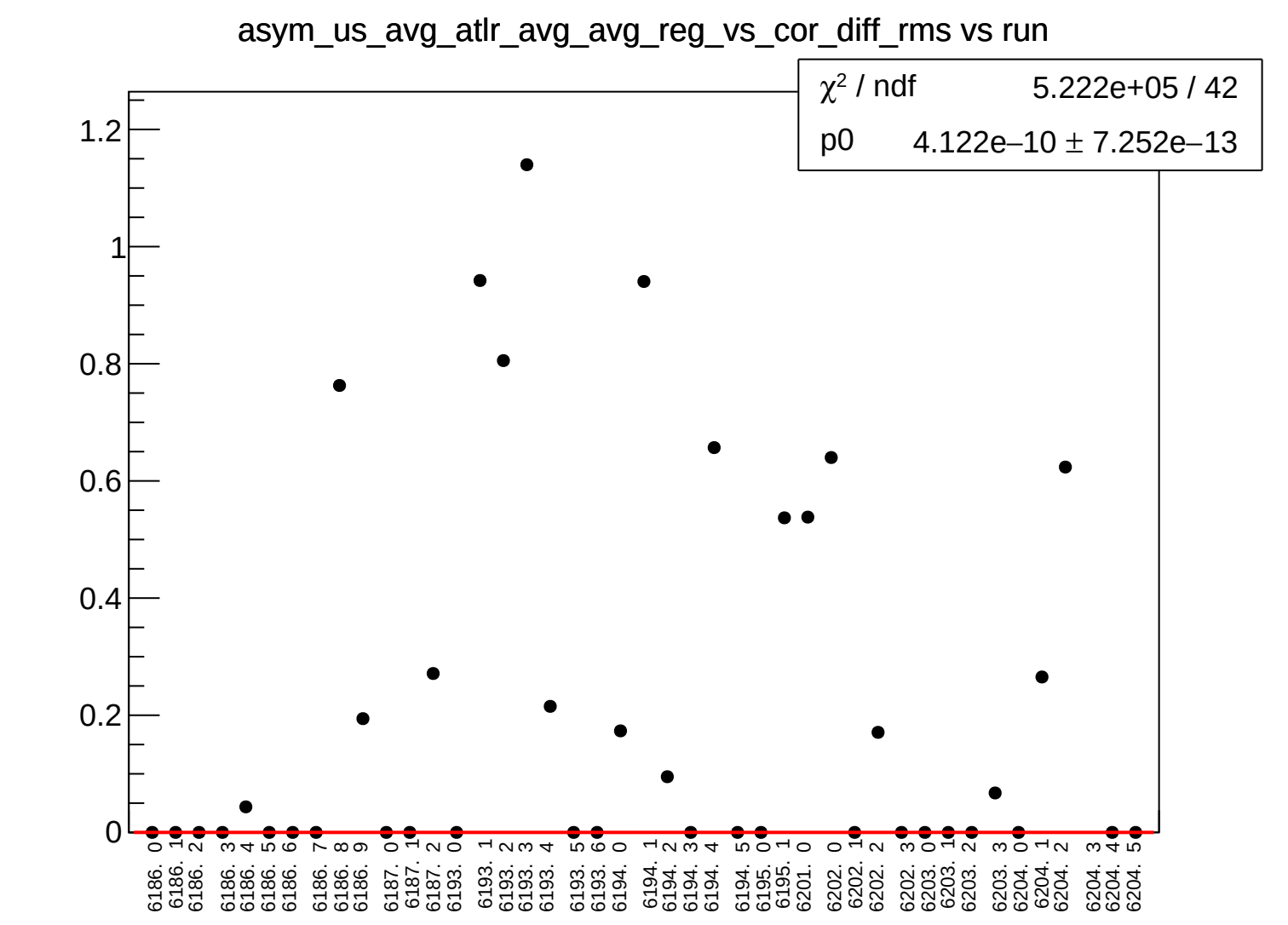

pull1D
Entries 43
Mean 0.008314
Std Dev 1.189

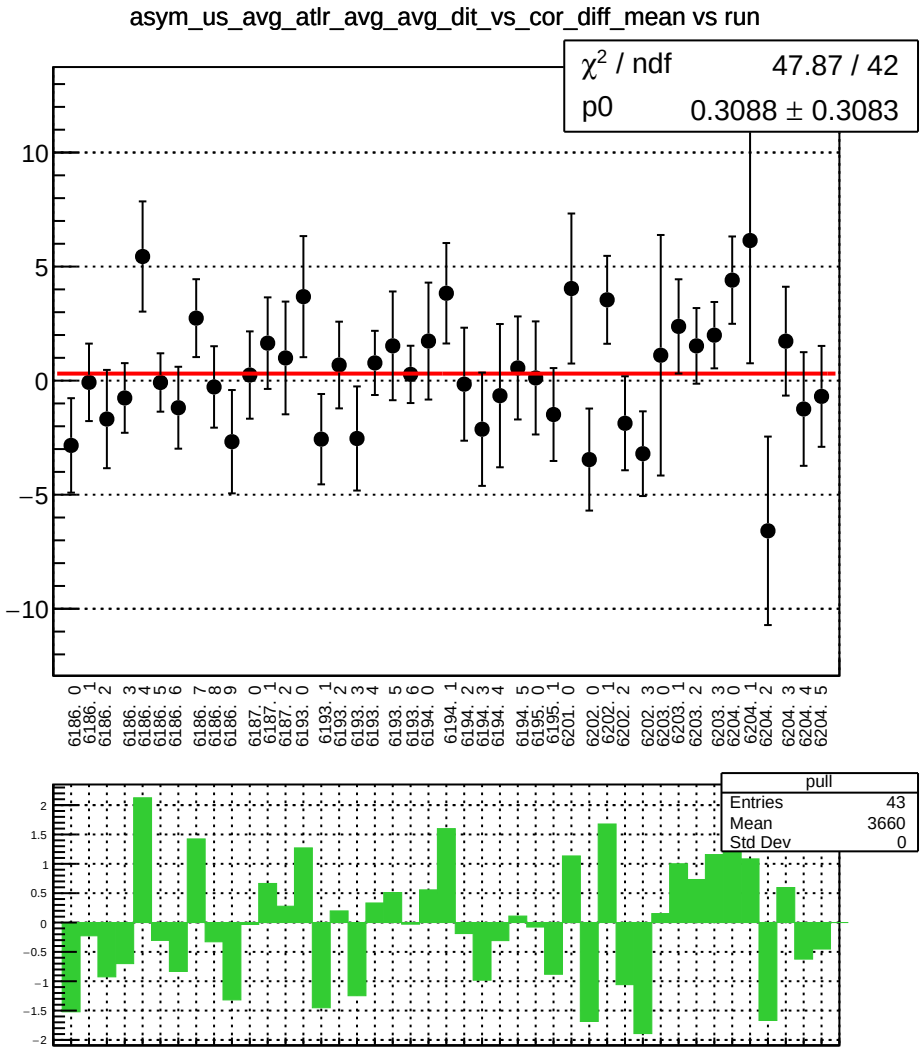

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4113 / 42
p0 6039 ± 6.584
6800
6600
6400
6200
6000
5800
5600
5400
5200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

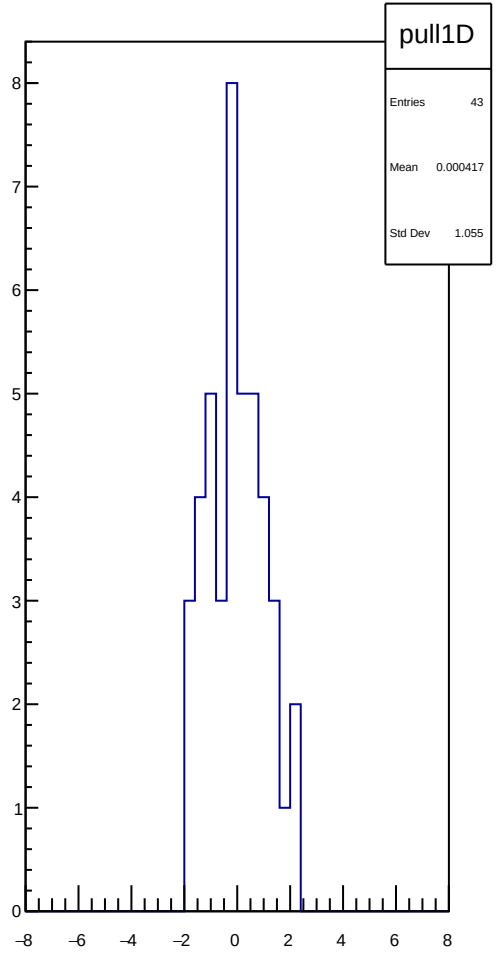

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 51.46 / 42
p0 −1.321e+04 ± 9566
300
200
100
0
−100
−200
−300
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 176.5
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.01024
Std Dev 1.094
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

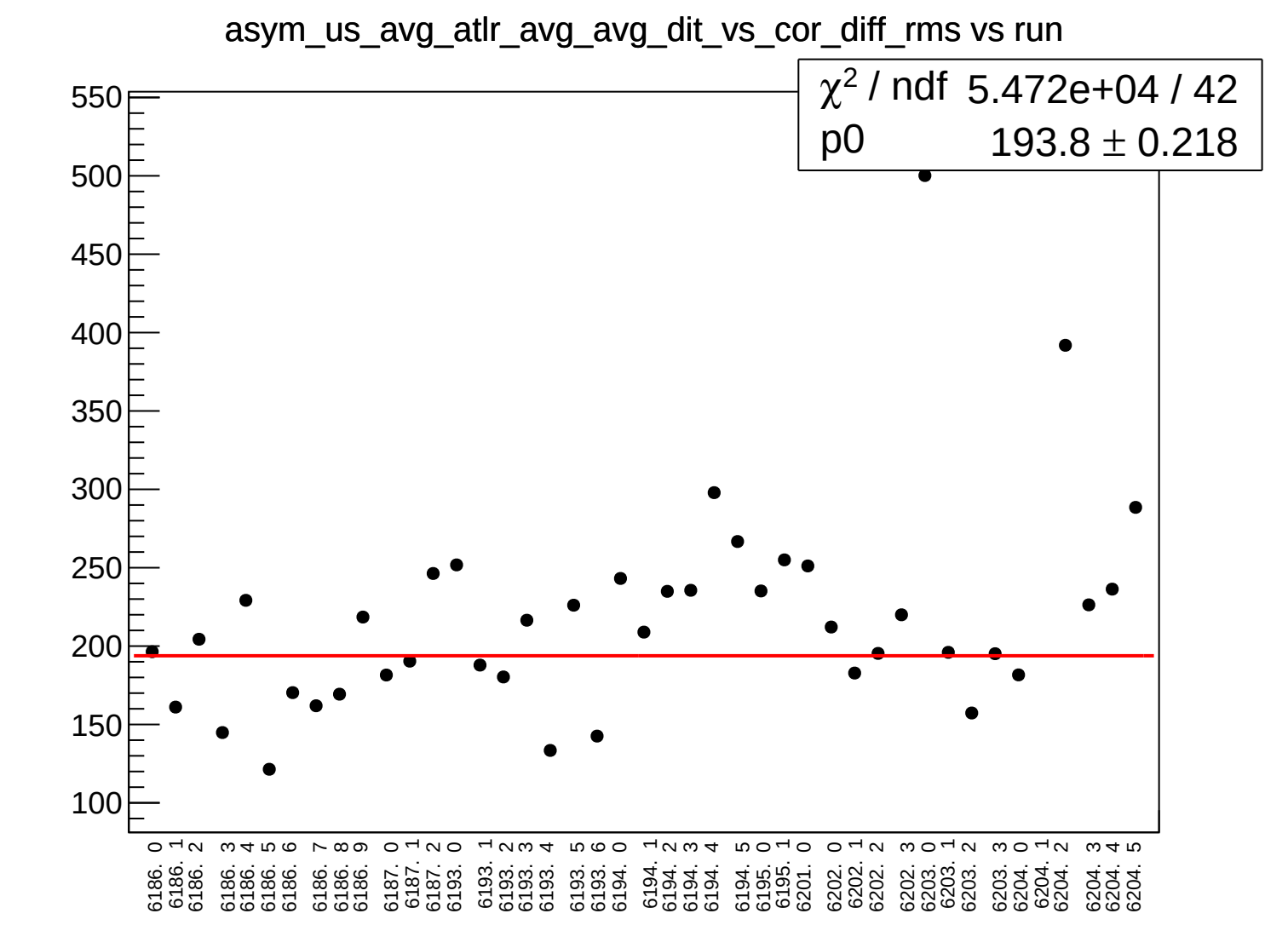

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 3680 / 42
p0 6205 ± 6.764
7000
6800
6600
6400
6200
6000
5800
5600
5400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

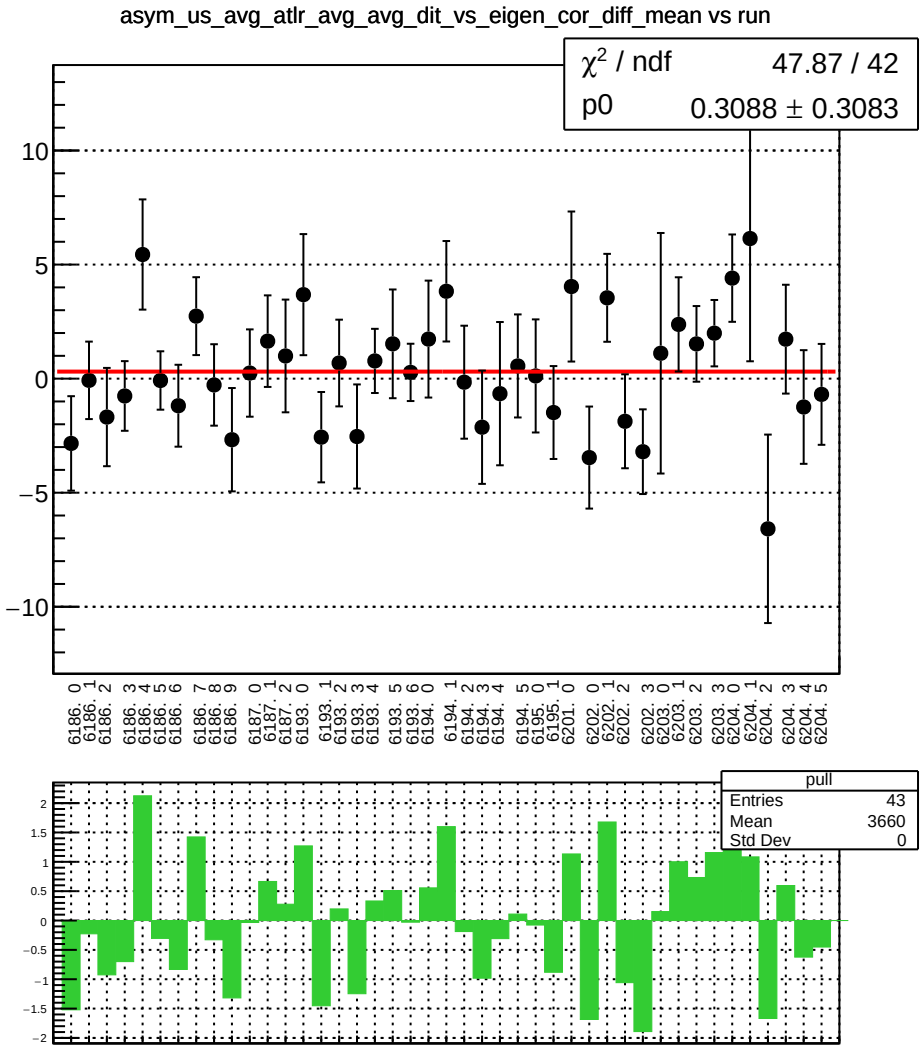

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 50.45 / 42
p0 2.865e−13 ± 1.026e−12
0.03
0.02
0.01
0
−0.01
−0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 28.78
Std Dev 9.334
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1472
Std Dev 1.073
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

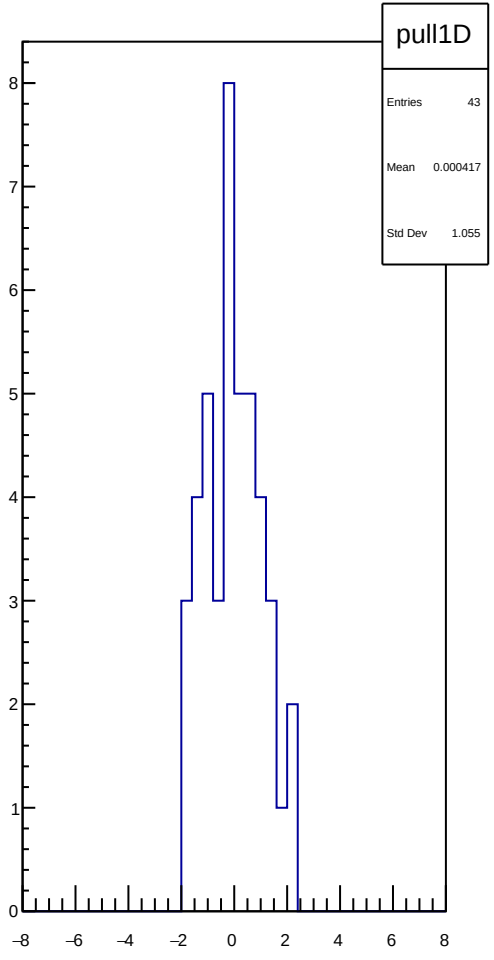

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.222e+05 / 42
p0 4.122e−10 ± 7.252e−13
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

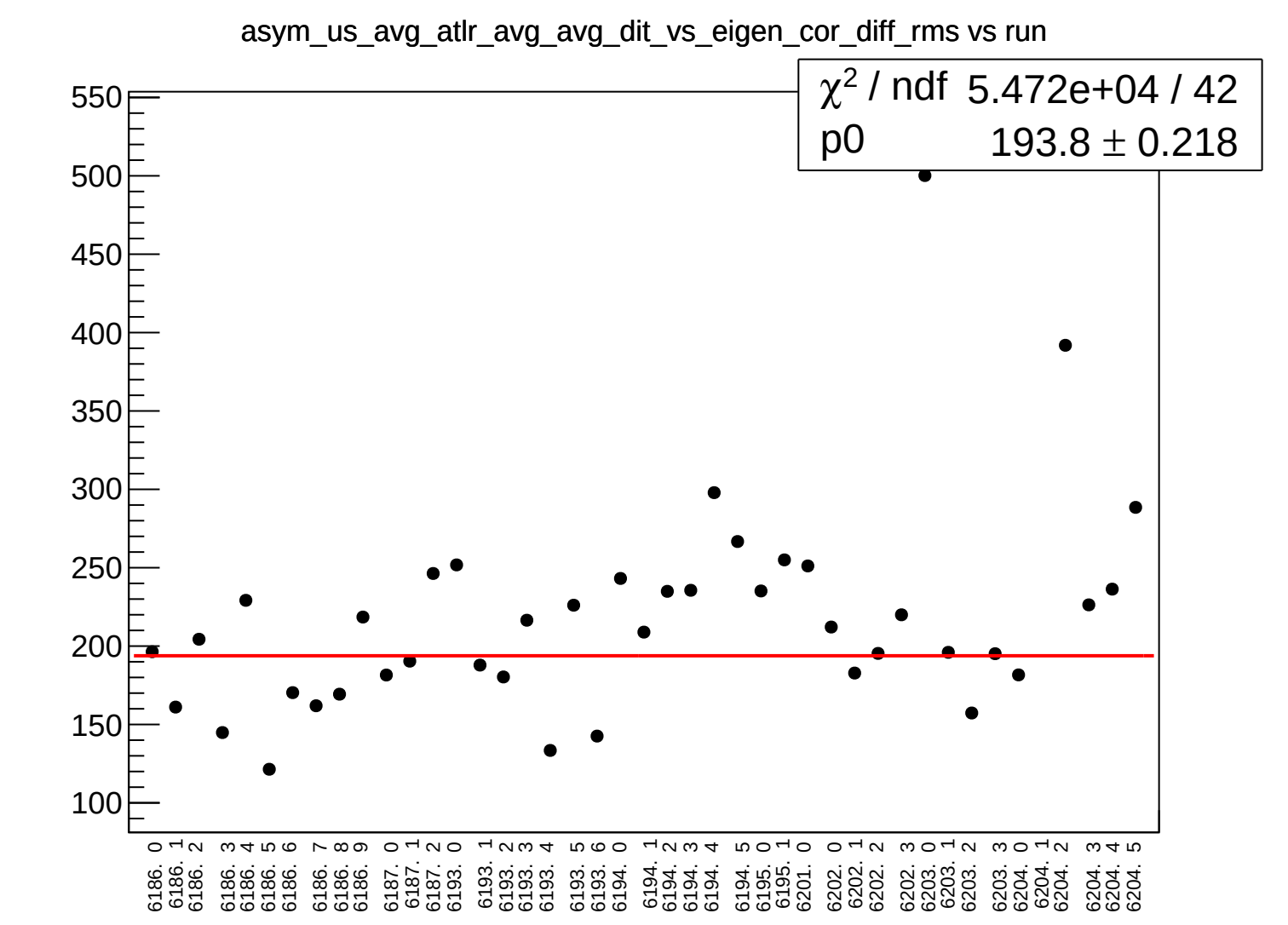

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 47.87 / 42
p0 0.3088 ± 0.3083
pull
Entries 43
Mean 3660
Std Dev 0

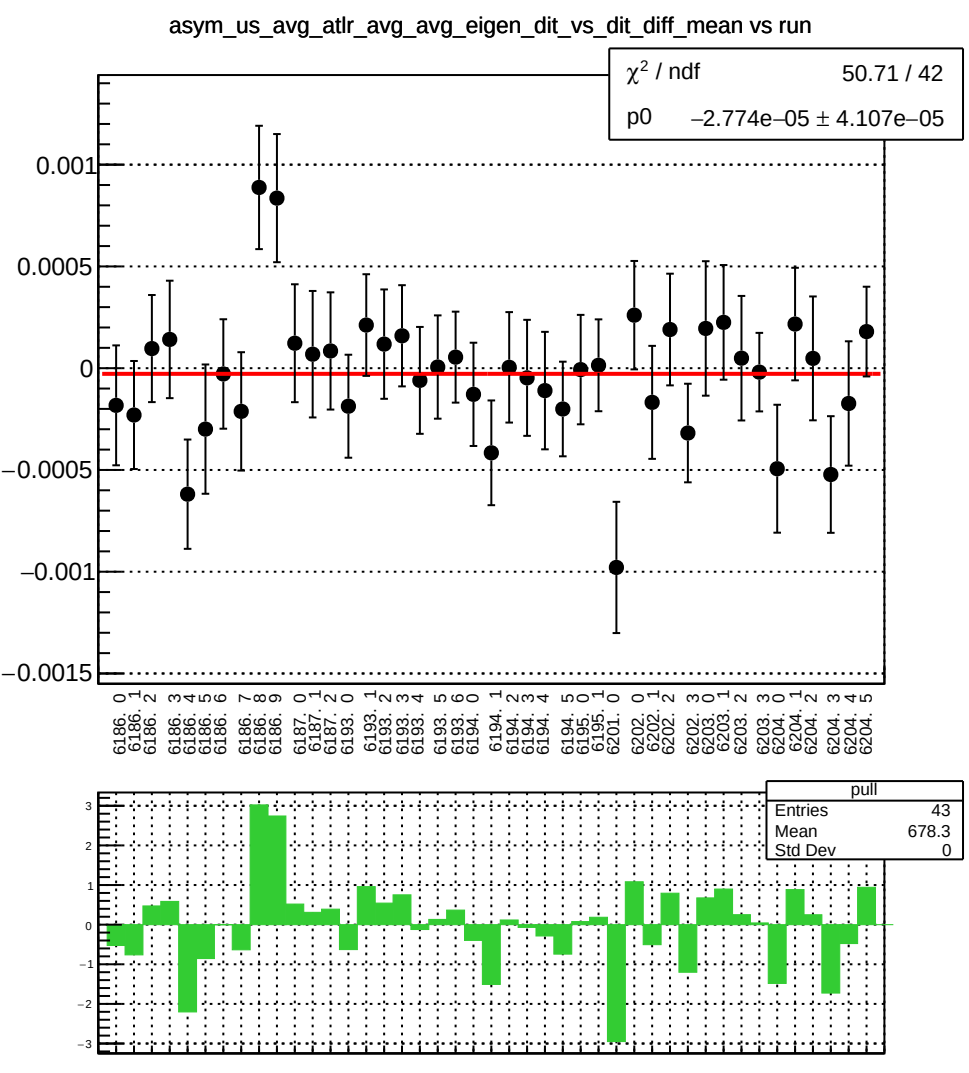

pull1D
Entries 43
Mean 0.000417
Std Dev 1.055

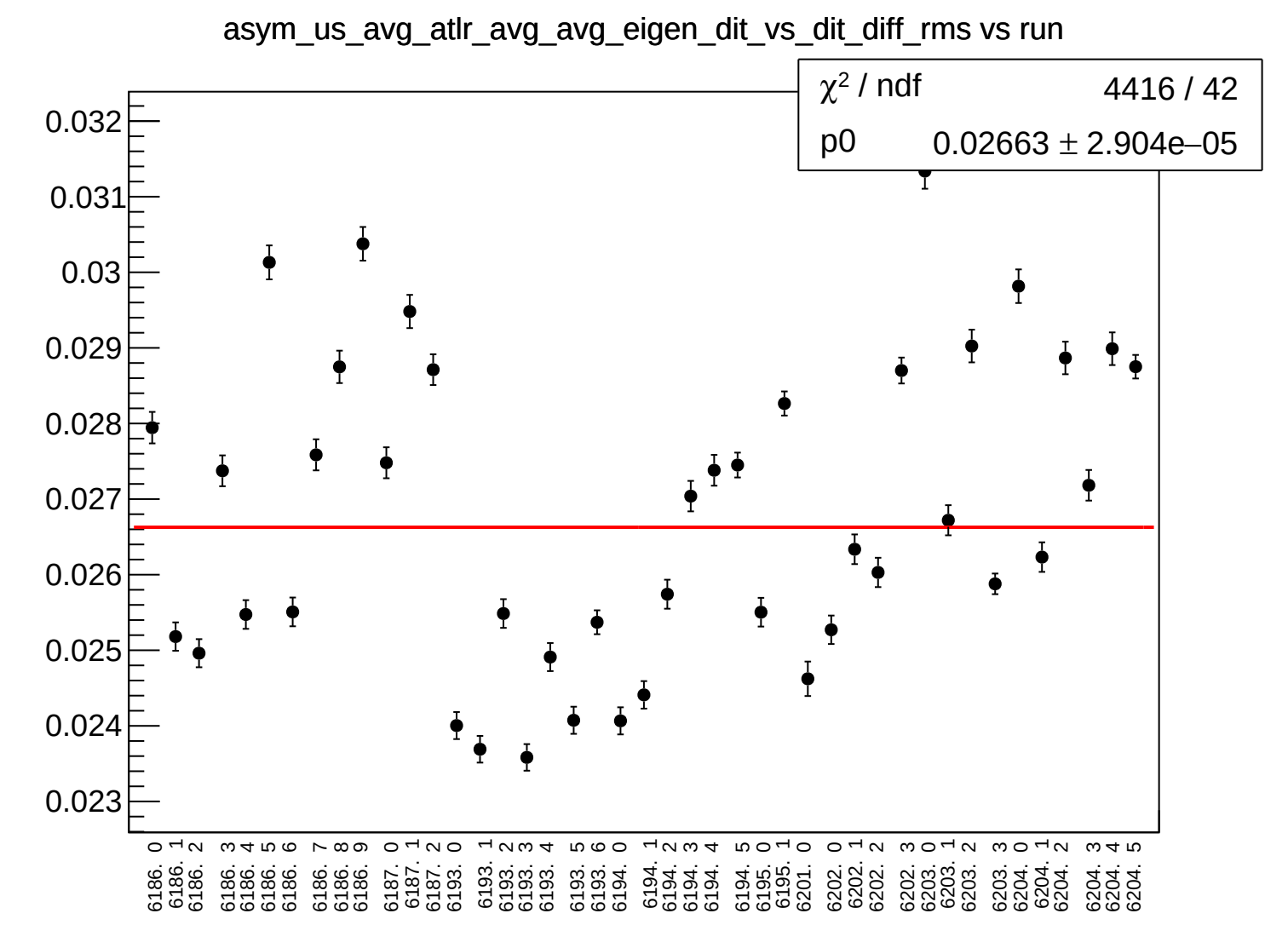

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.472e+04 / 42
p0 193.8 ± 0.218
550
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

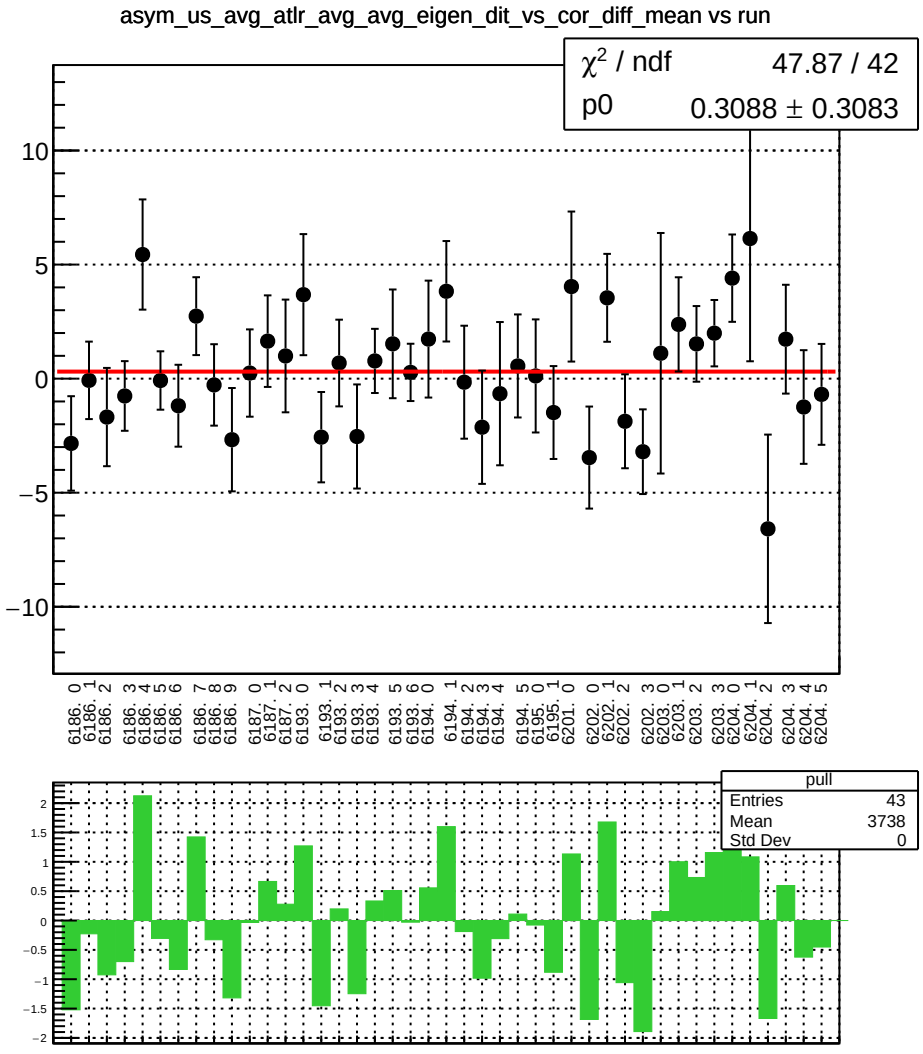

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.87 / 42
p0 0.3088 ± 0.3083
pull
Entries 43
Mean 3660
Std Dev 0

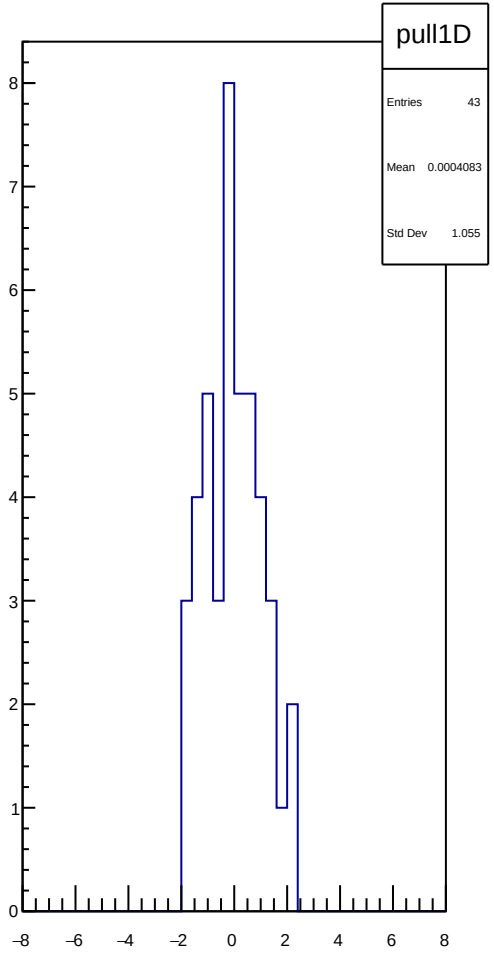

pull1D
Entries 43
Mean 0.000417
Std Dev 1.055

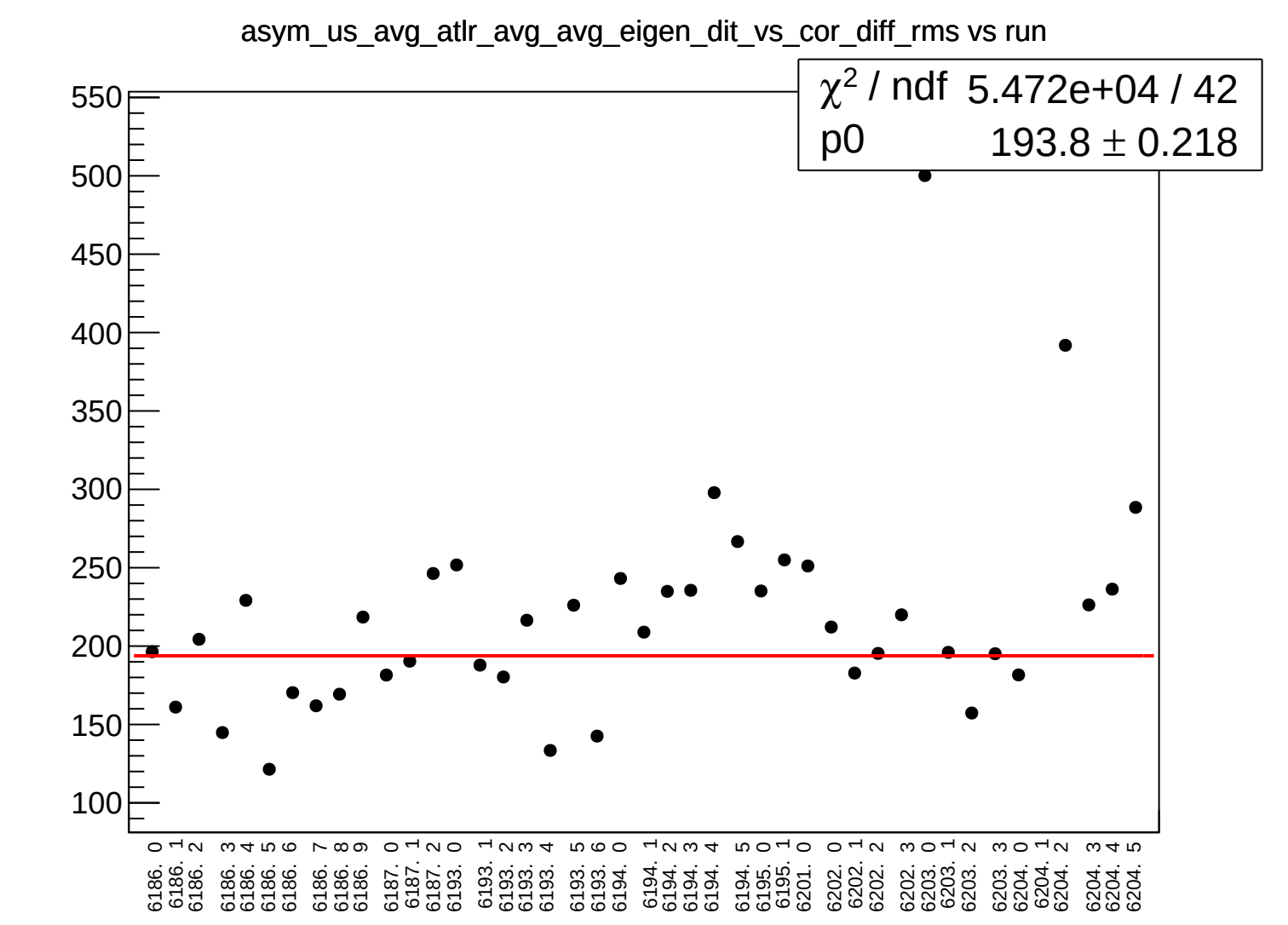

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.472e+04 / 42
p0 193.8 ± 0.218
550
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

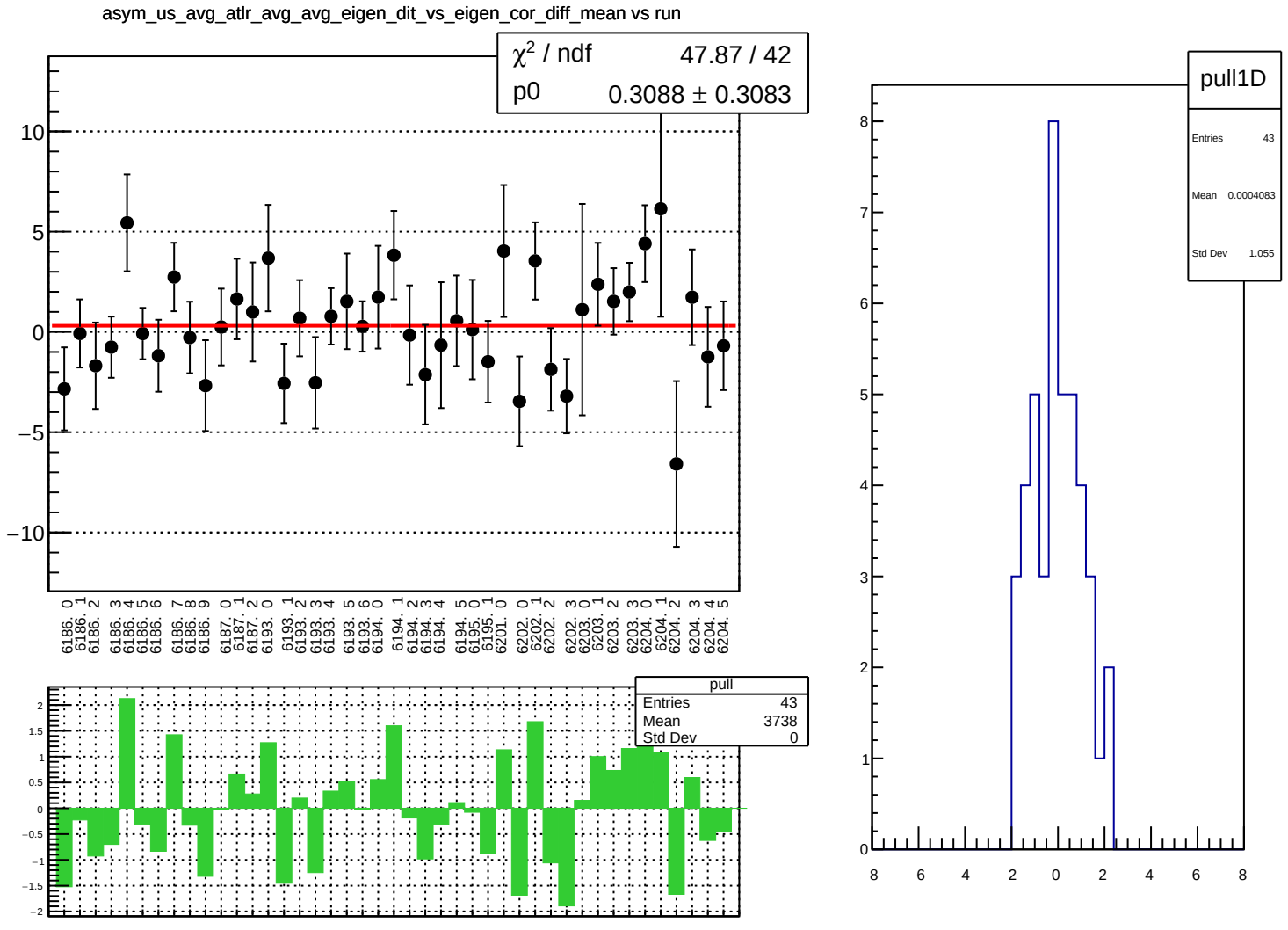

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 50.71 / 42
p0 −2.774e−05 ± 4.107e−05
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 678.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.001899
Std Dev 1.086
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

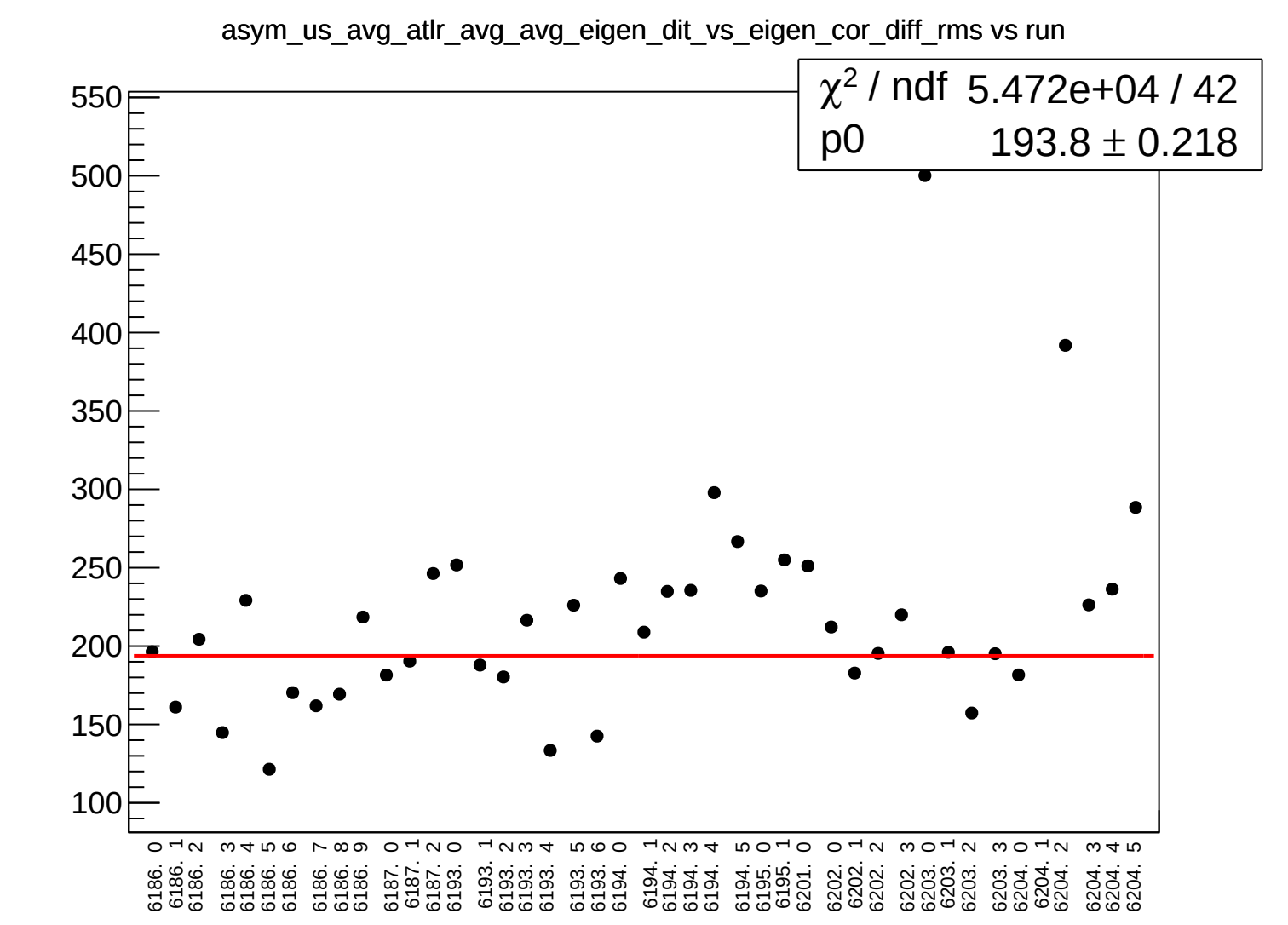

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4416 / 42
p0 0.02663 ± 2.904e−05
0.032
0.031
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

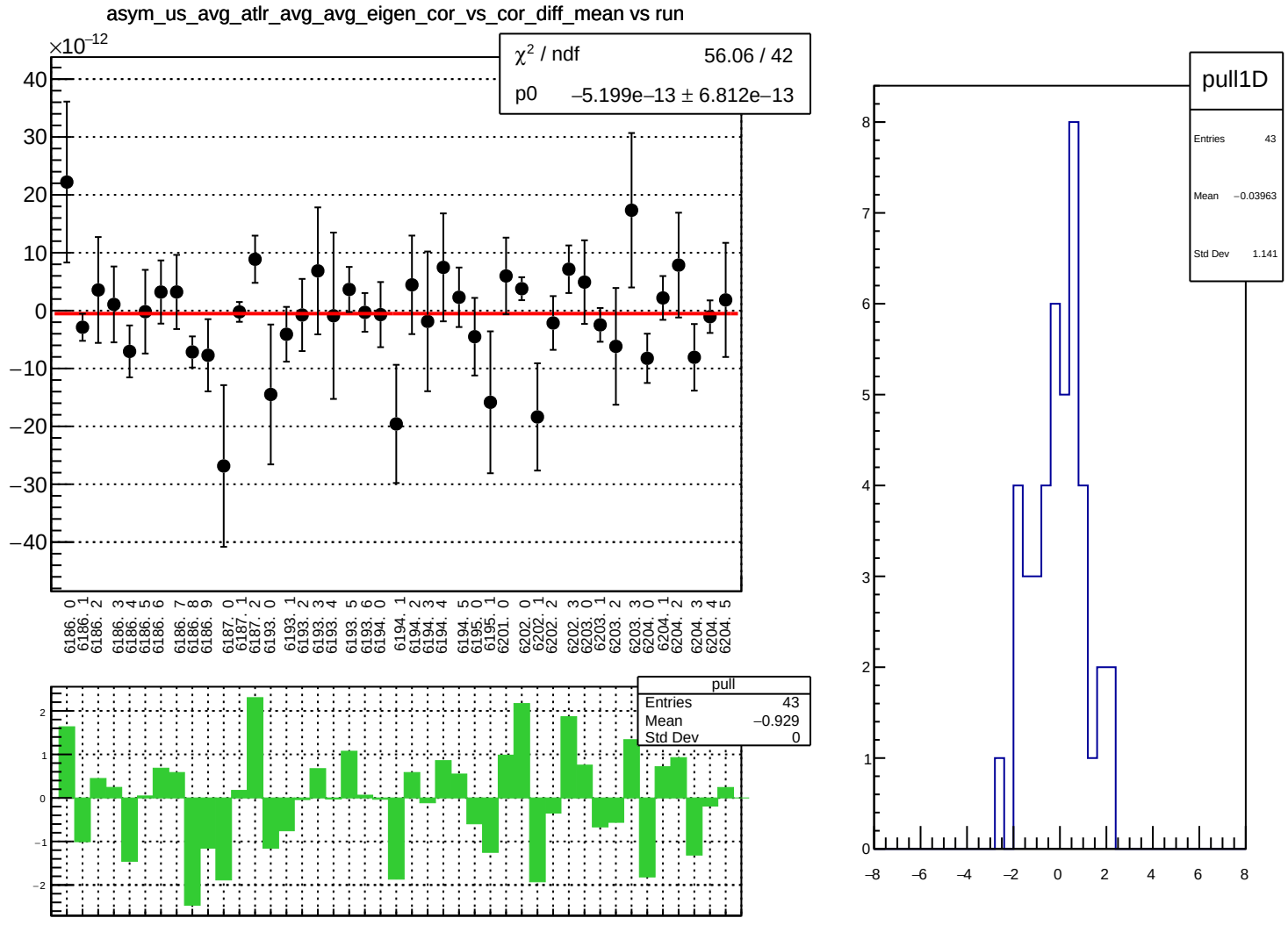

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.87 / 42
p0 0.3088 ± 0.3083
pull
Entries 43
Mean 3738
Std Dev 0

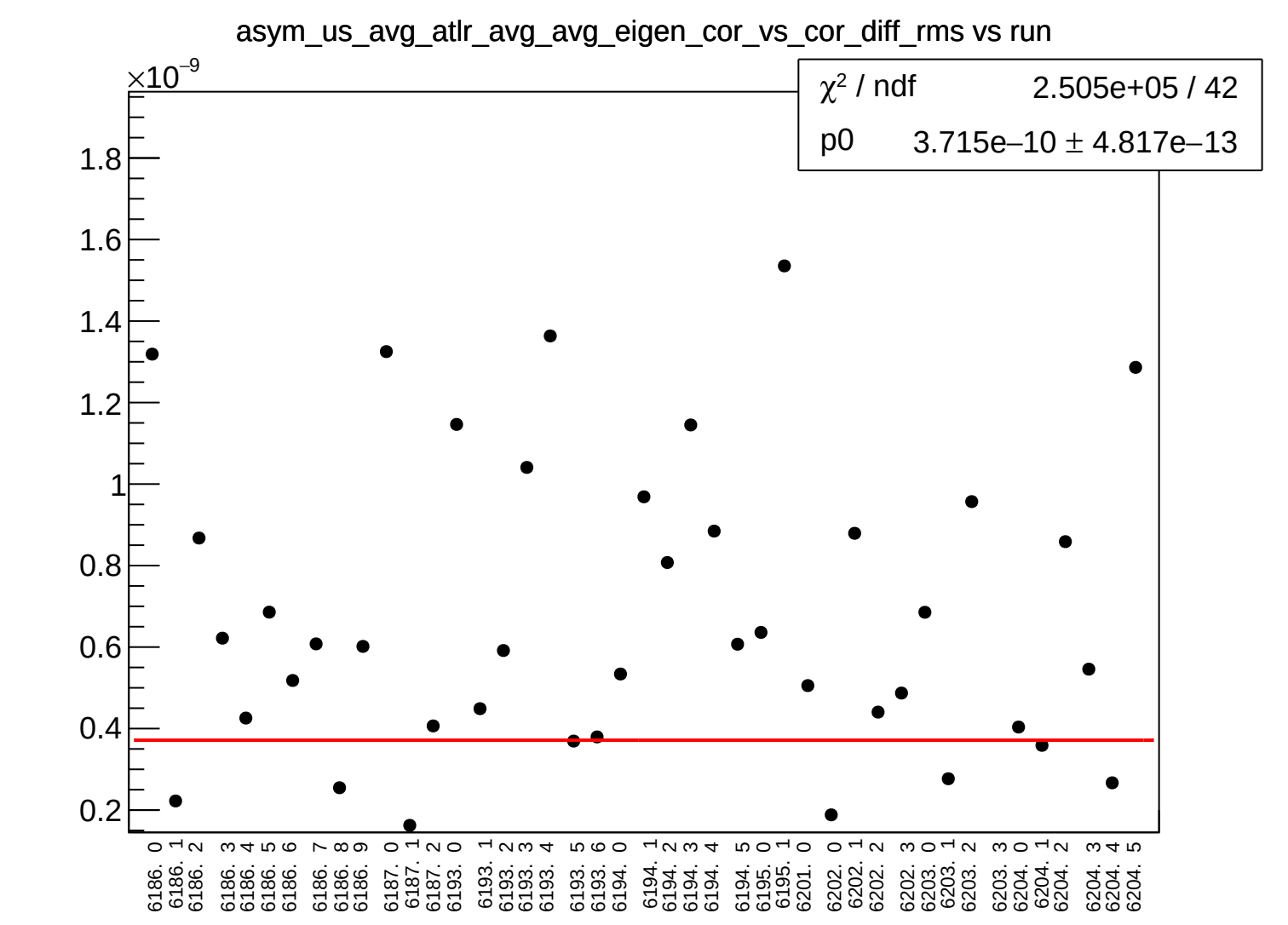

pull1D
Entries 43
Mean 0.0004083
Std Dev 1.055

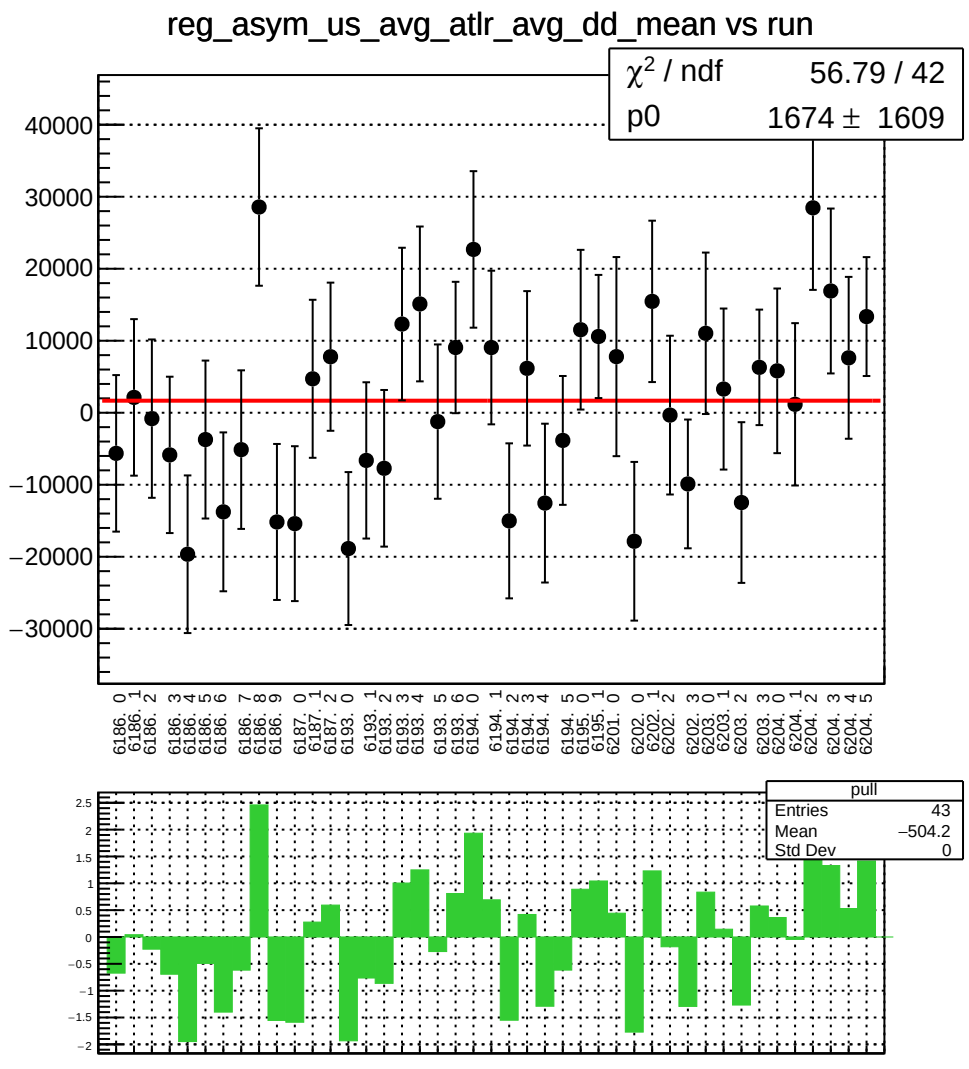

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.472e+04 / 42
p0 193.8 ± 0.218
550
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

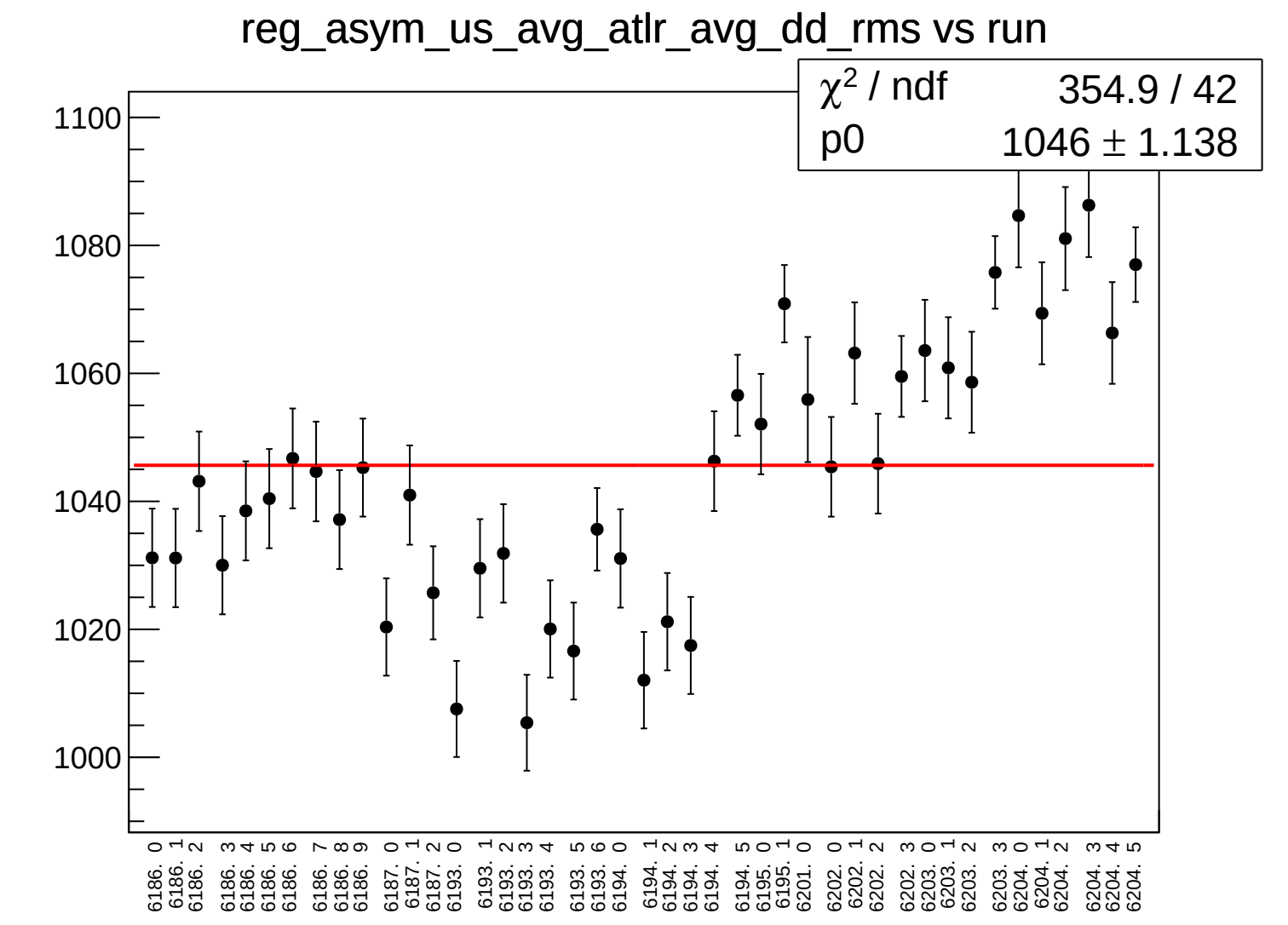

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.87 / 42
p0 0.3088 ± 0.3083
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 3738
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.0004083
Std Dev 1.055
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

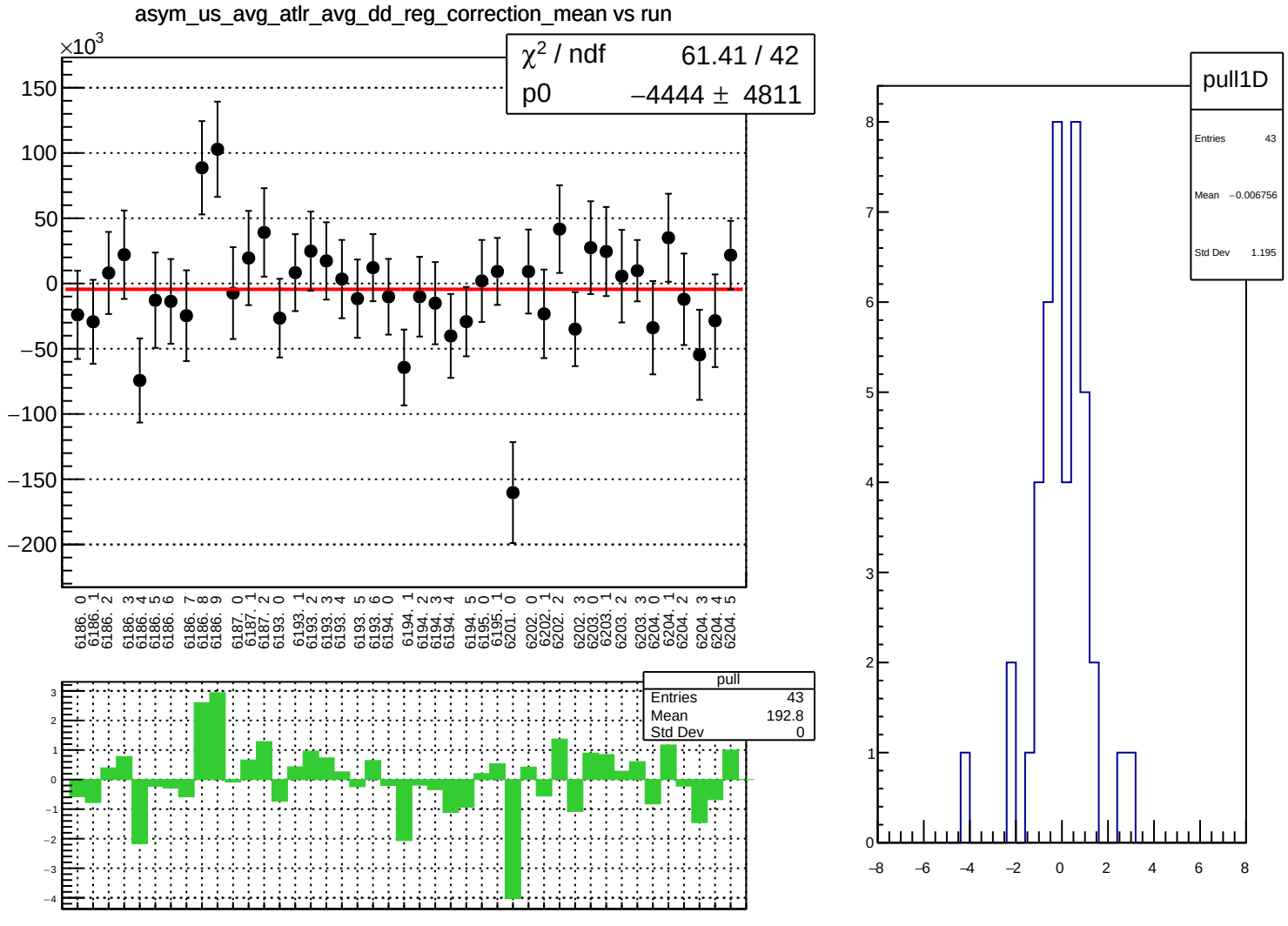

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.472e+04 / 42
p0 193.8 ± 0.218
550
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 56.06 / 42
p0 −5.199e−13 ± 6.812e−13
40
30
20
10
0
−10
−20
−30
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −0.929
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03963
Std Dev 1.141
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 2.505e+05 / 42
p0 3.715e−10 ± 4.817e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 56.79 / 42
p0 1674 ± 1609
40000
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −504.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.009437
Std Dev 1.149
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 354.9 / 42
p0 1046 ± 1.138
1100
1080
1060
1040
1020
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 61.41 / 42
p0 −4444 ± 4811
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 192.8
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.006756
Std Dev 1.195
8
7
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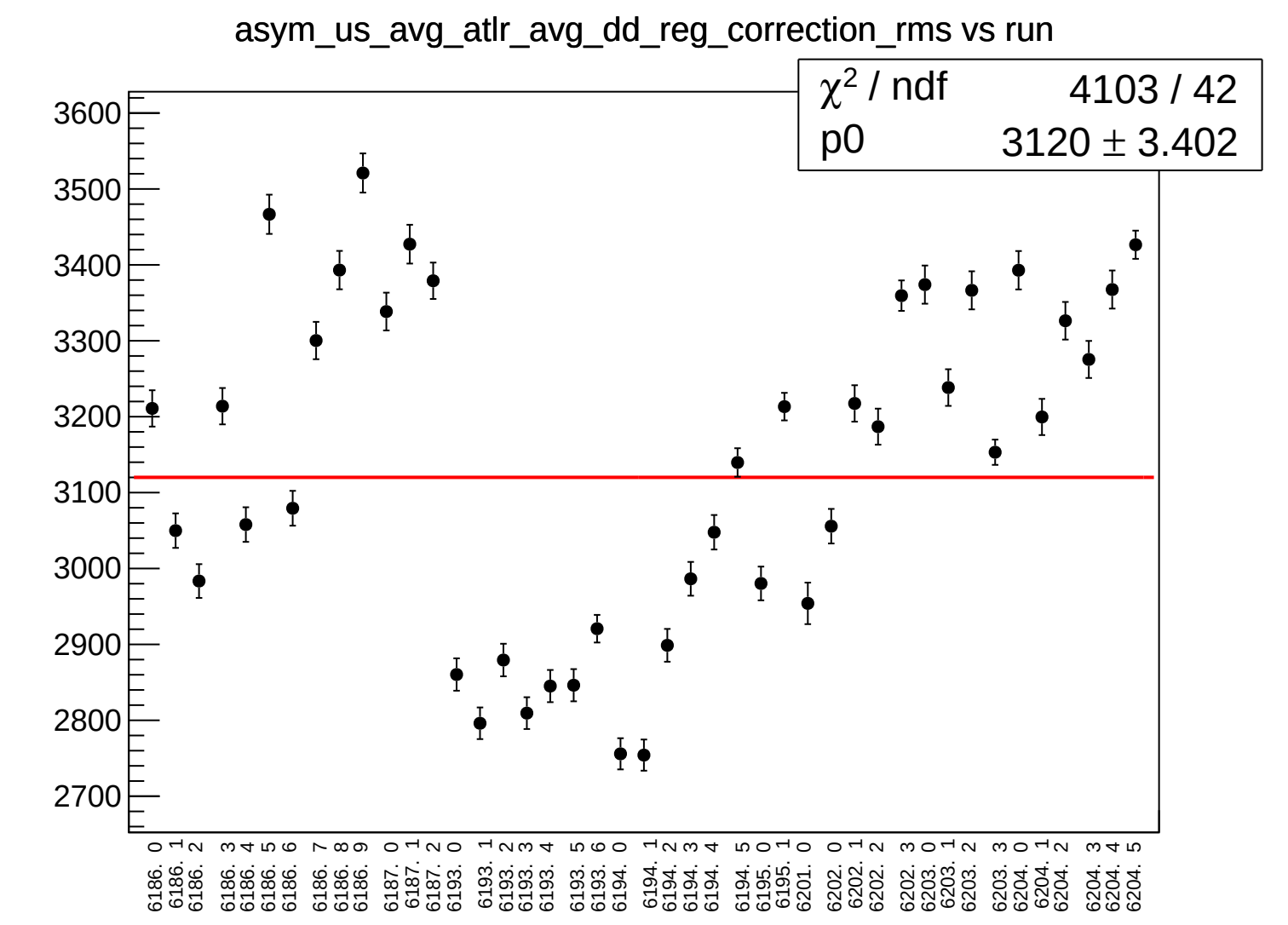
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 4103 / 42
p0 3120 ± 3.402
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
6204. 0
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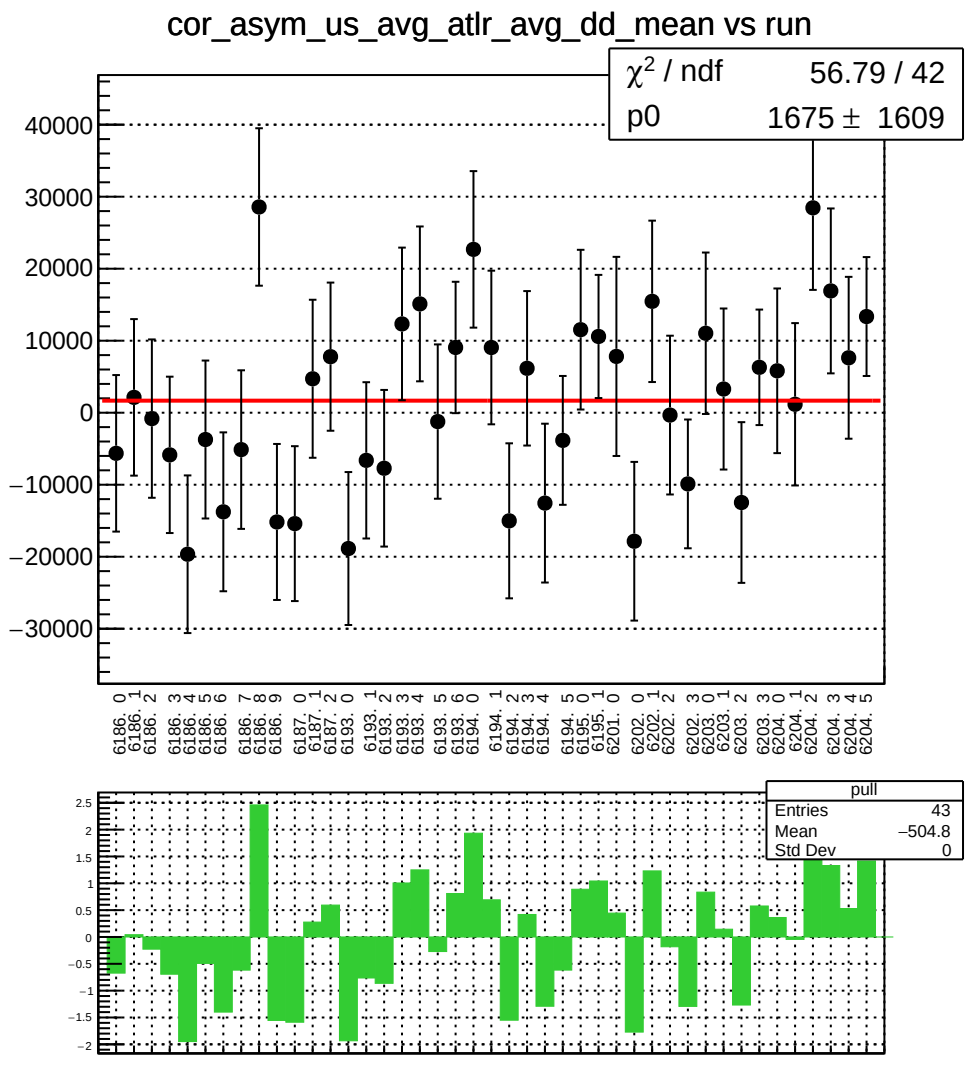
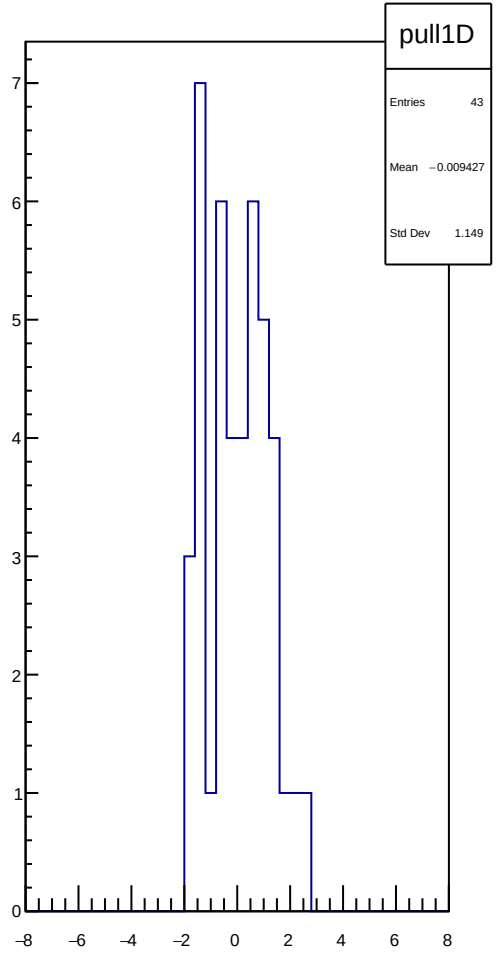
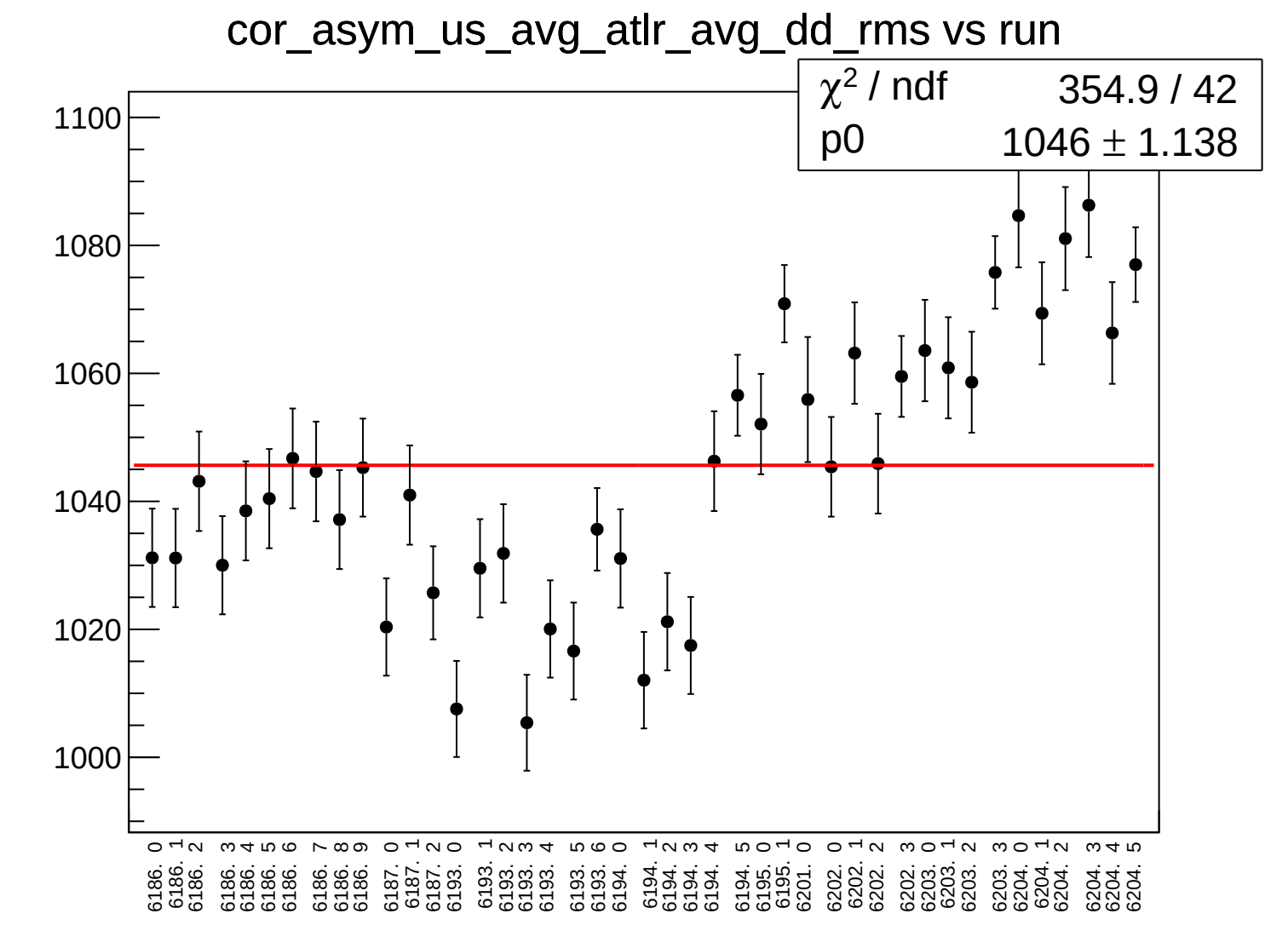
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 56.79 / 42
p0 1675 ± 1609
40000
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −504.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.009427
Std Dev 1.149
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 354.9 / 42
p0 1046 ± 1.138
1100
1080
1060
1040
1020
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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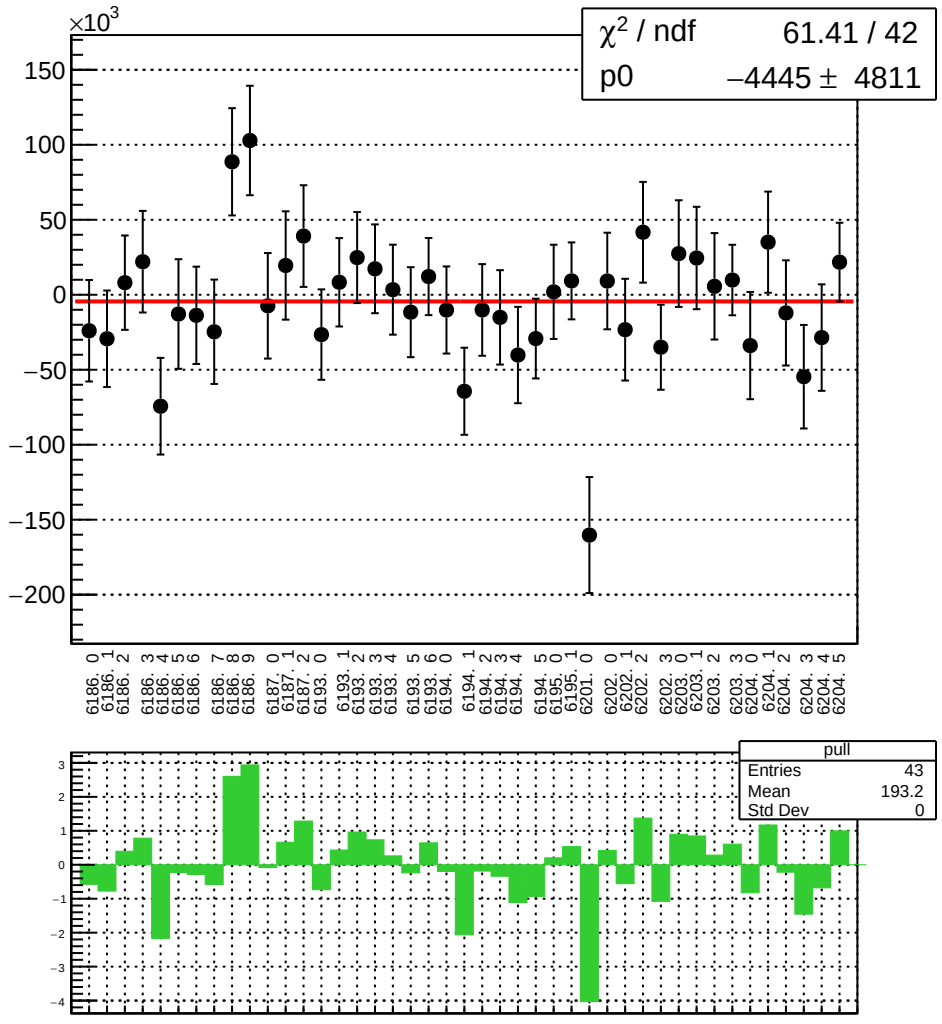
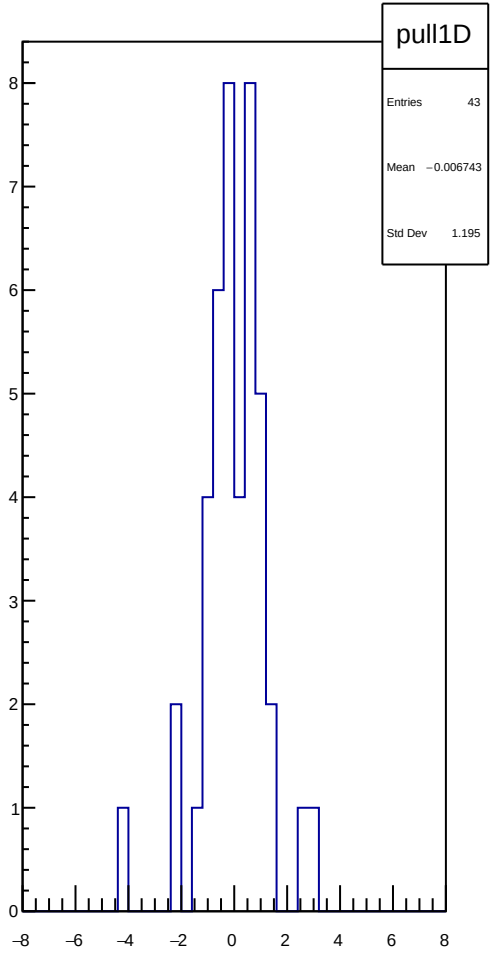
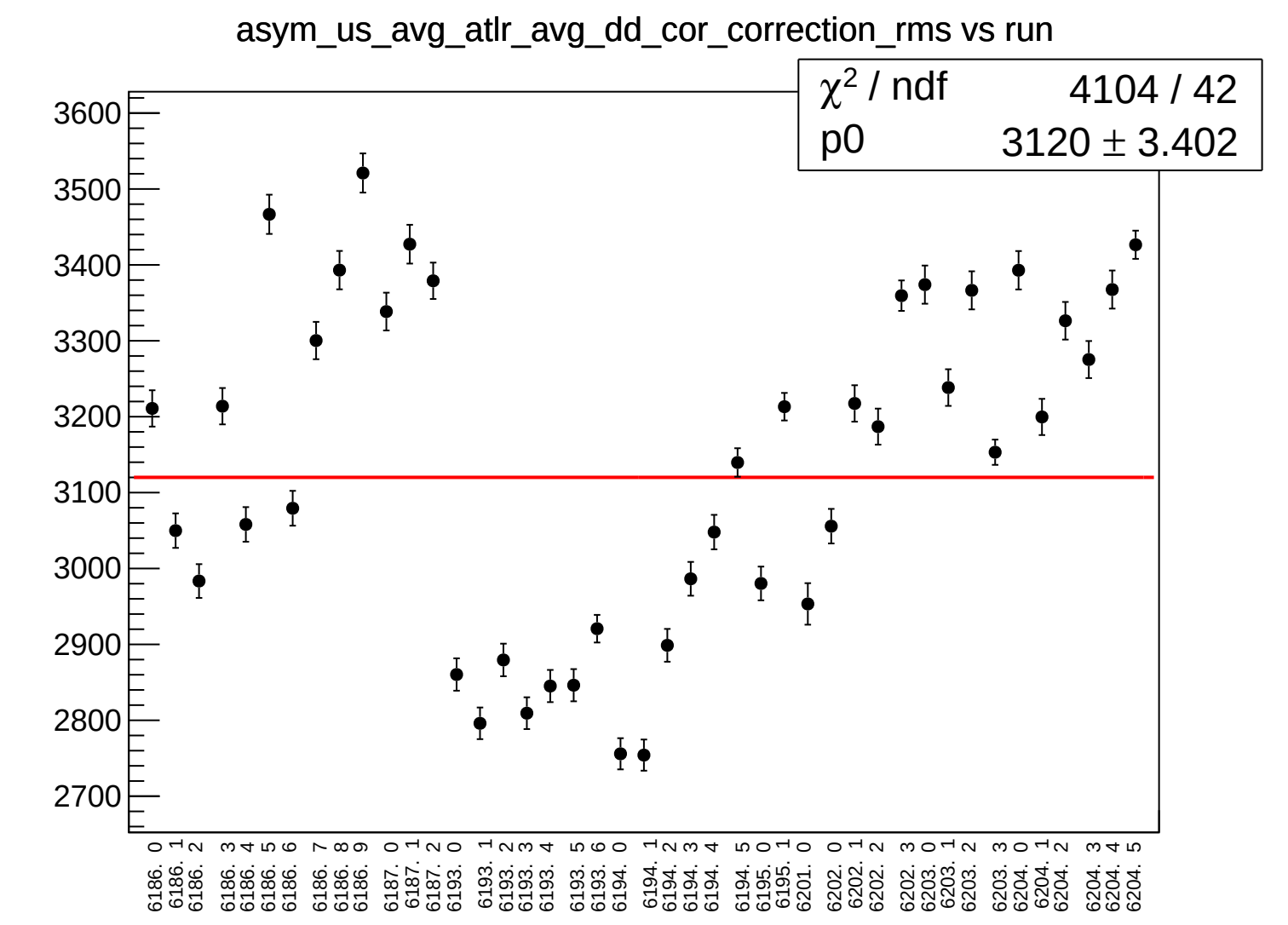
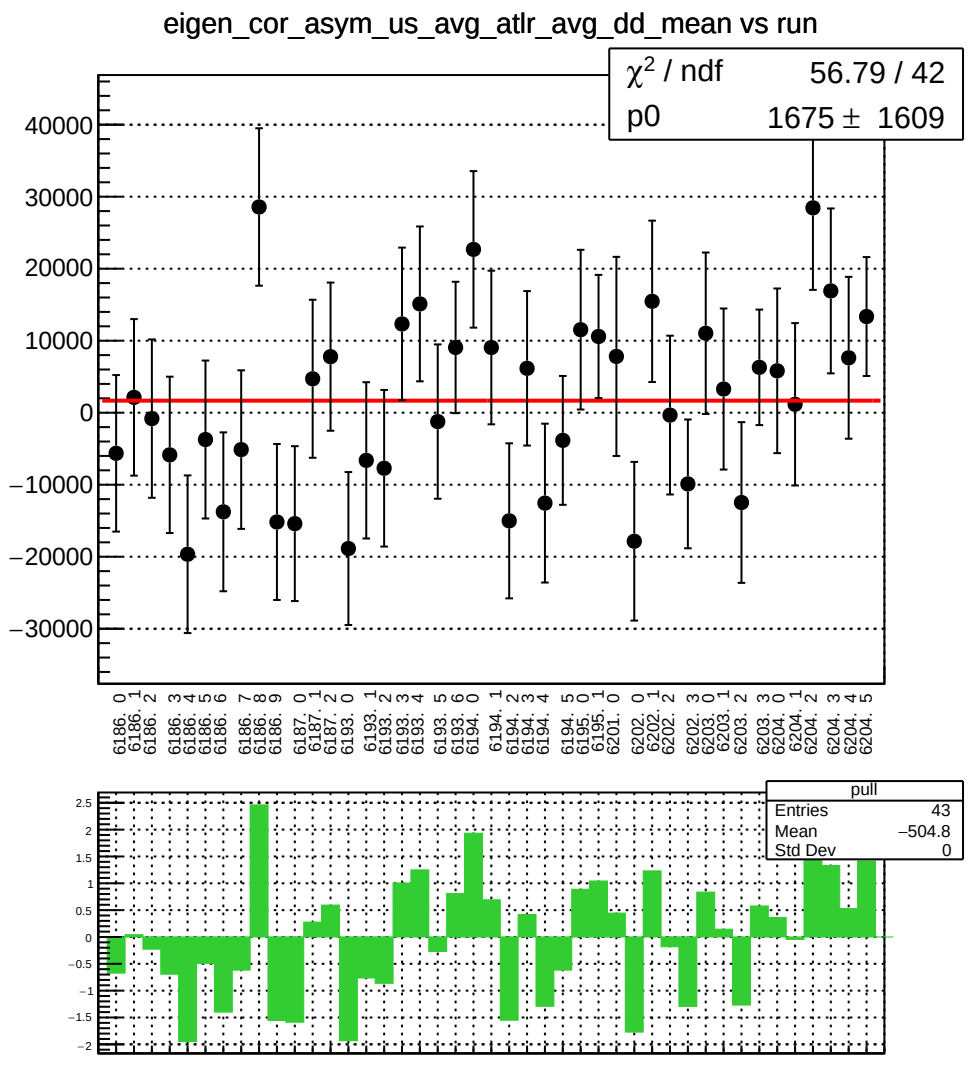
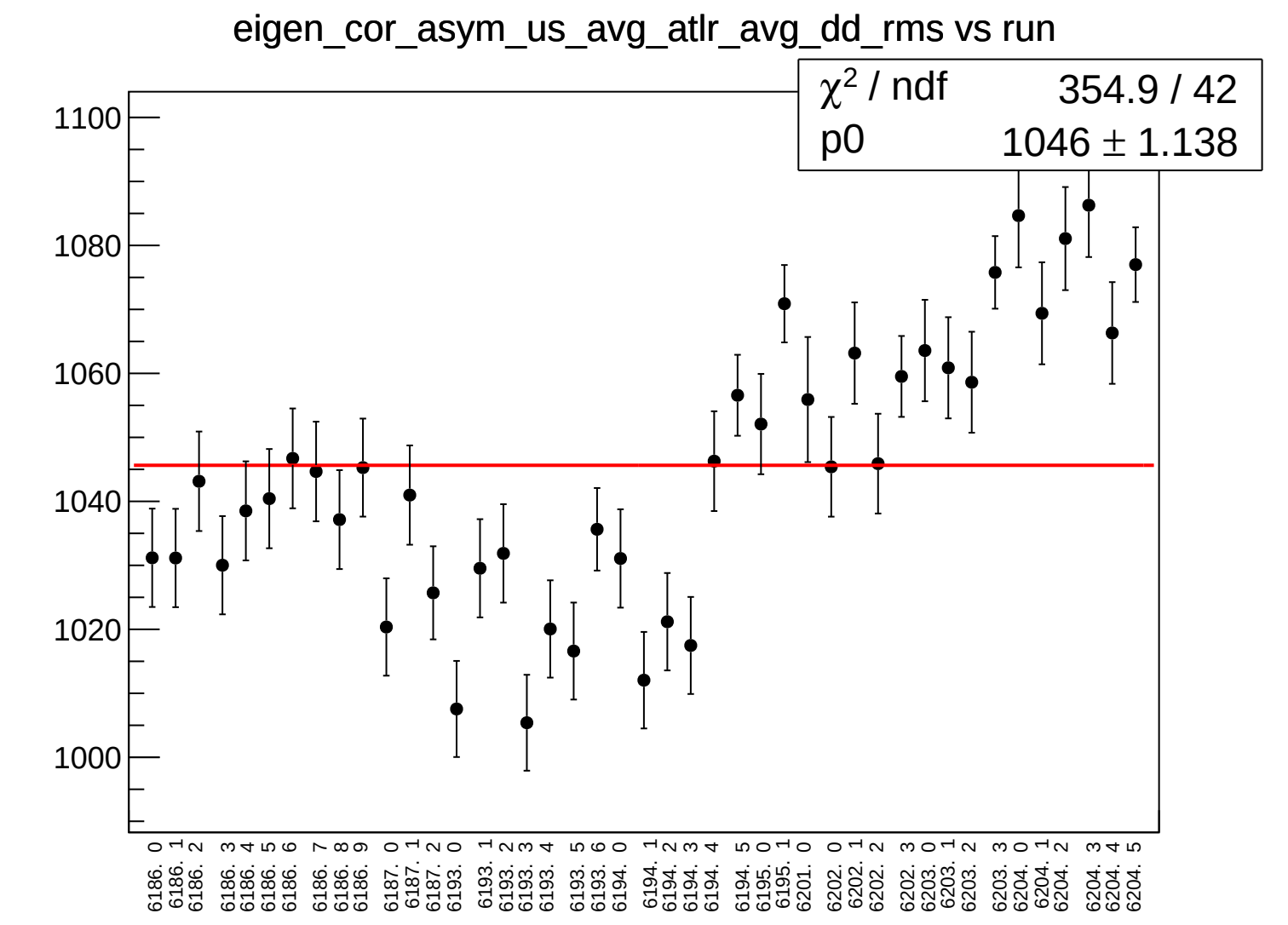
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

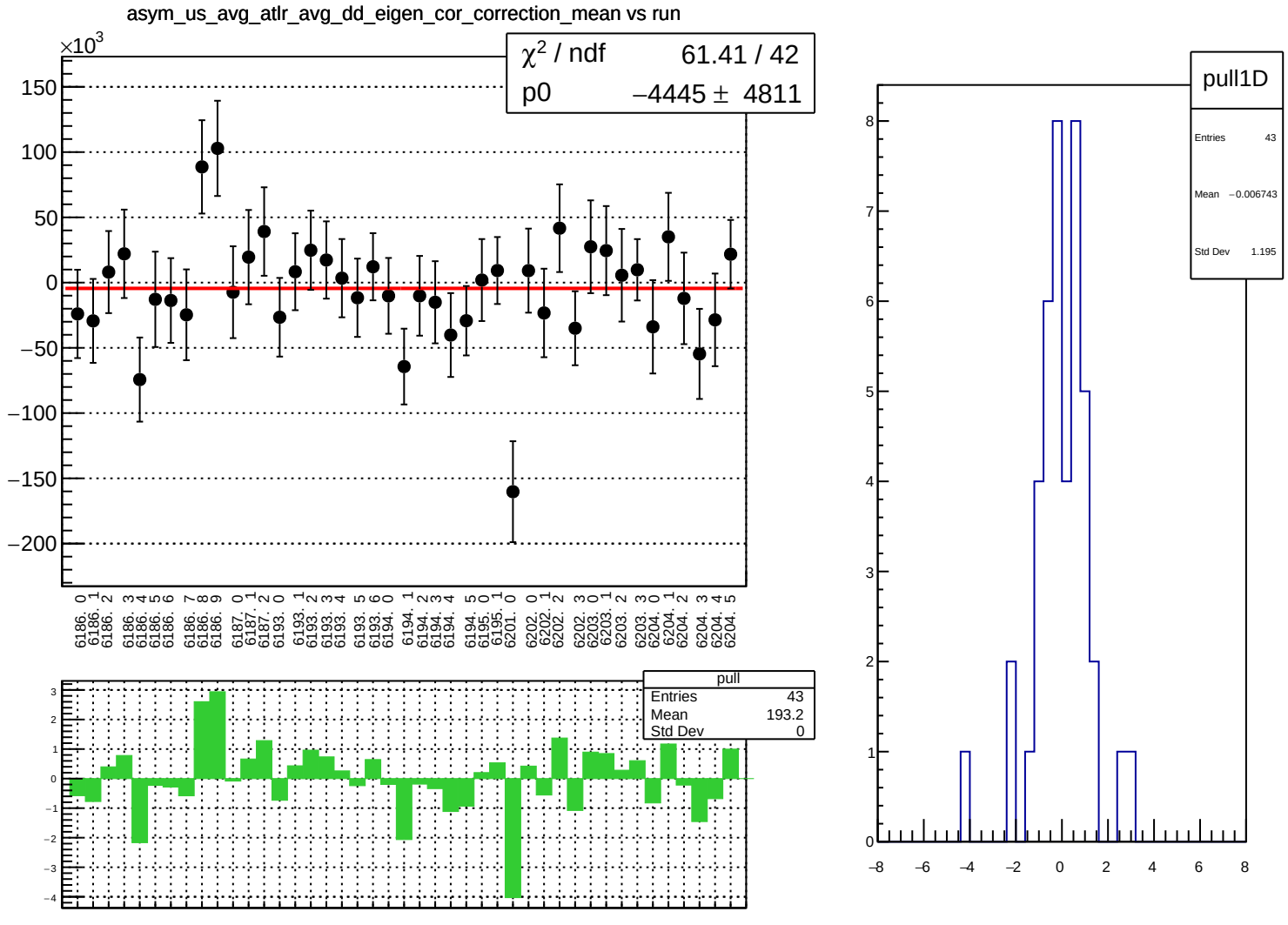

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 61.41 / 42
p0 −4445 ± 4811
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 193.2
Std Dev 0
3
2
1
0
−1
−2
−3
−4

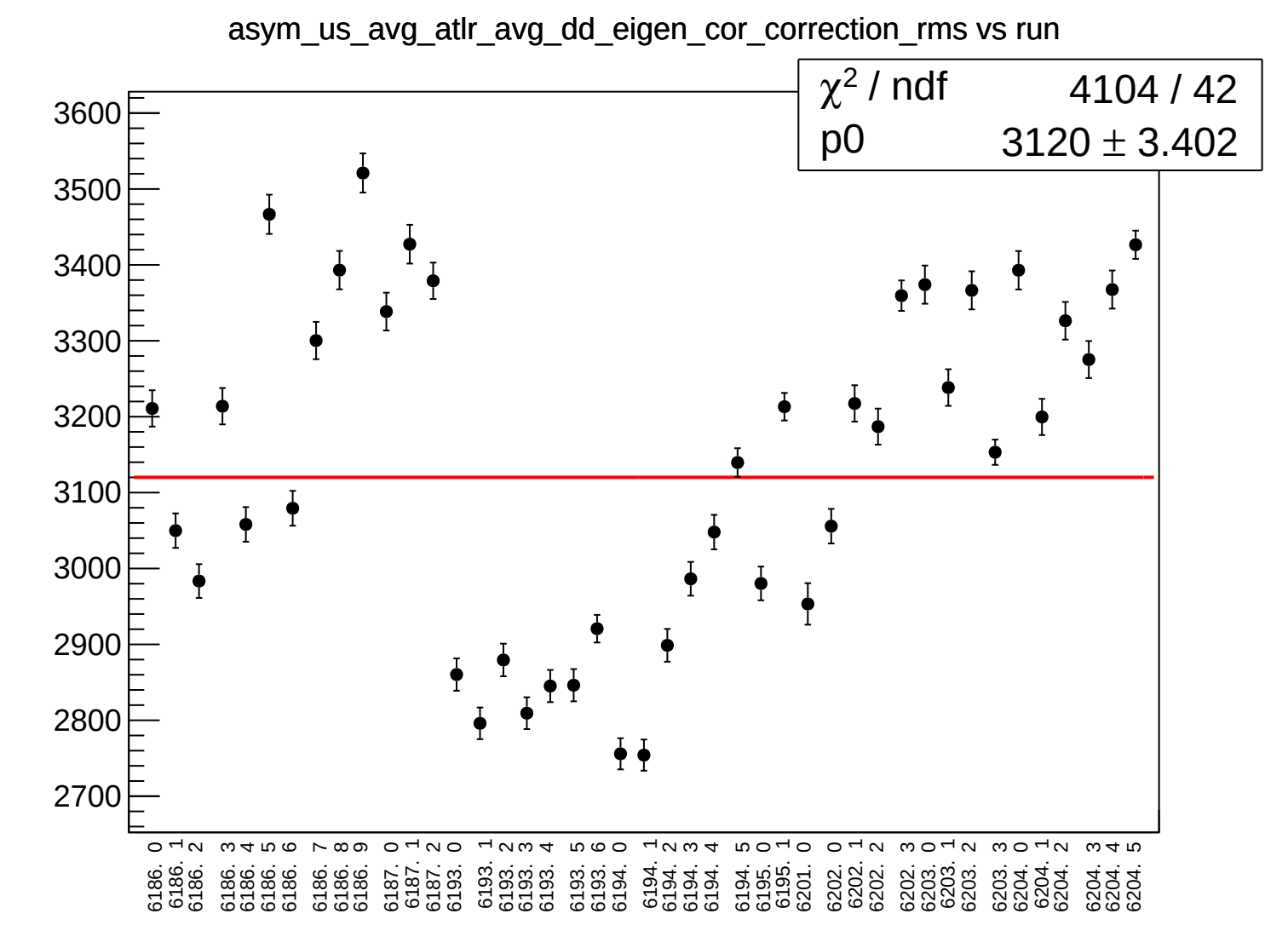

pull1D
Entries 43
Mean −0.006743
Std Dev 1.195
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 4104 / 42
p0 3120 ± 3.402
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 56.79 / 42
p0 1675 ± 1609
40000
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −504.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.009427
Std Dev 1.149
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 354.9 / 42
p0 1046 ± 1.138
1100
1080
1060
1040
1020
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 61.41 / 42
p0 −4445 ± 4811
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 193.2
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.006743
Std Dev 1.195
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4104 / 42
p0 3120 ± 3.402
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
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6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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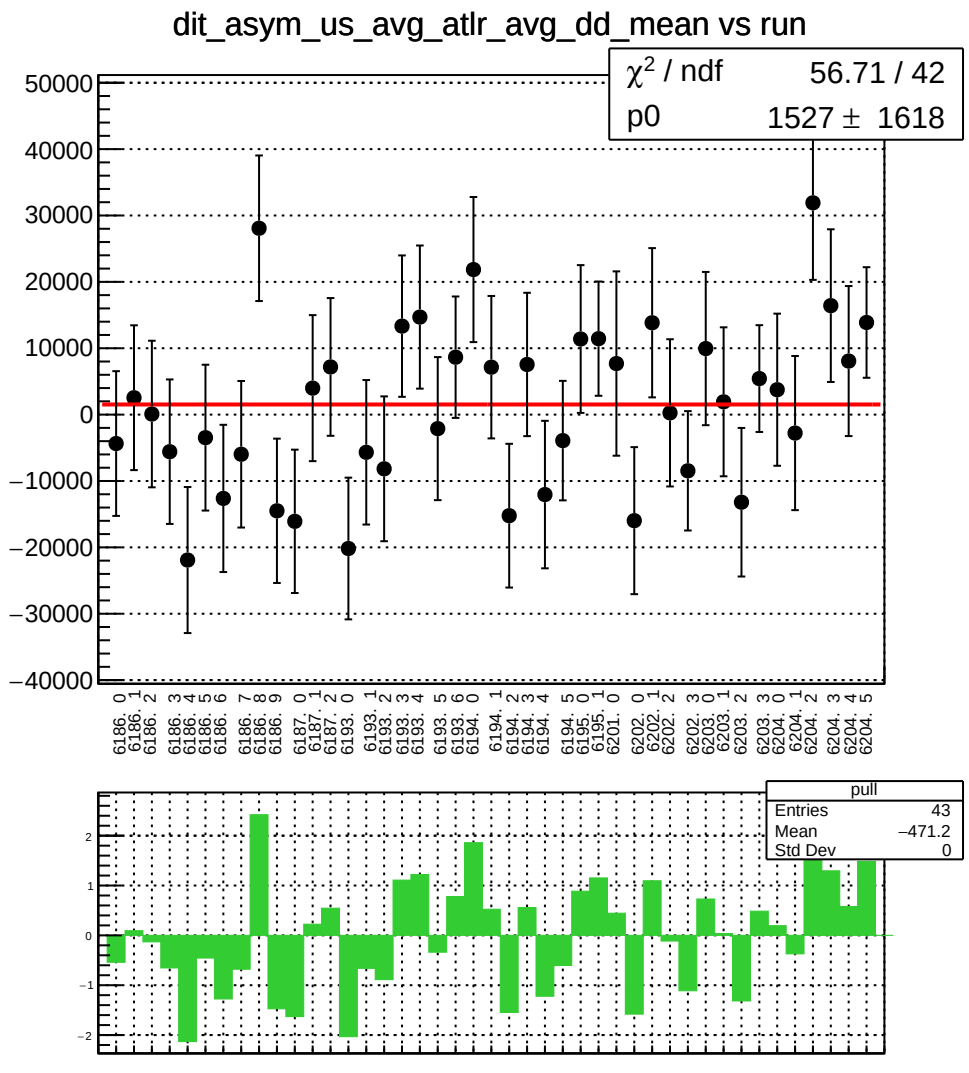
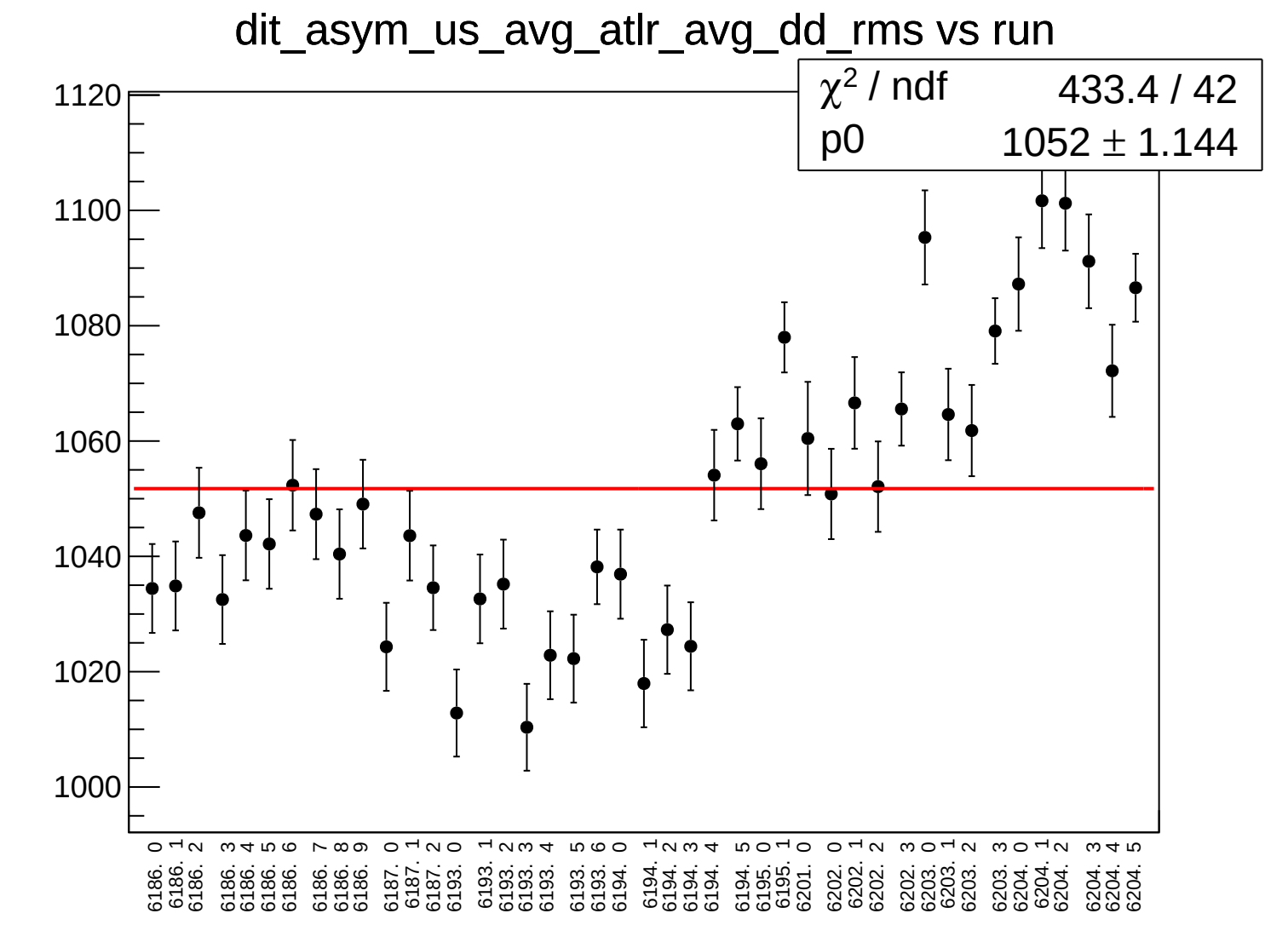
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 56.71 / 42
p0 1527 ± 1618
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −471.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.009787
Std Dev 1.148
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 433.4 / 42
p0 1052 ± 1.144
1120
1100
1080
1060
1040
1020
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6194. 2
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6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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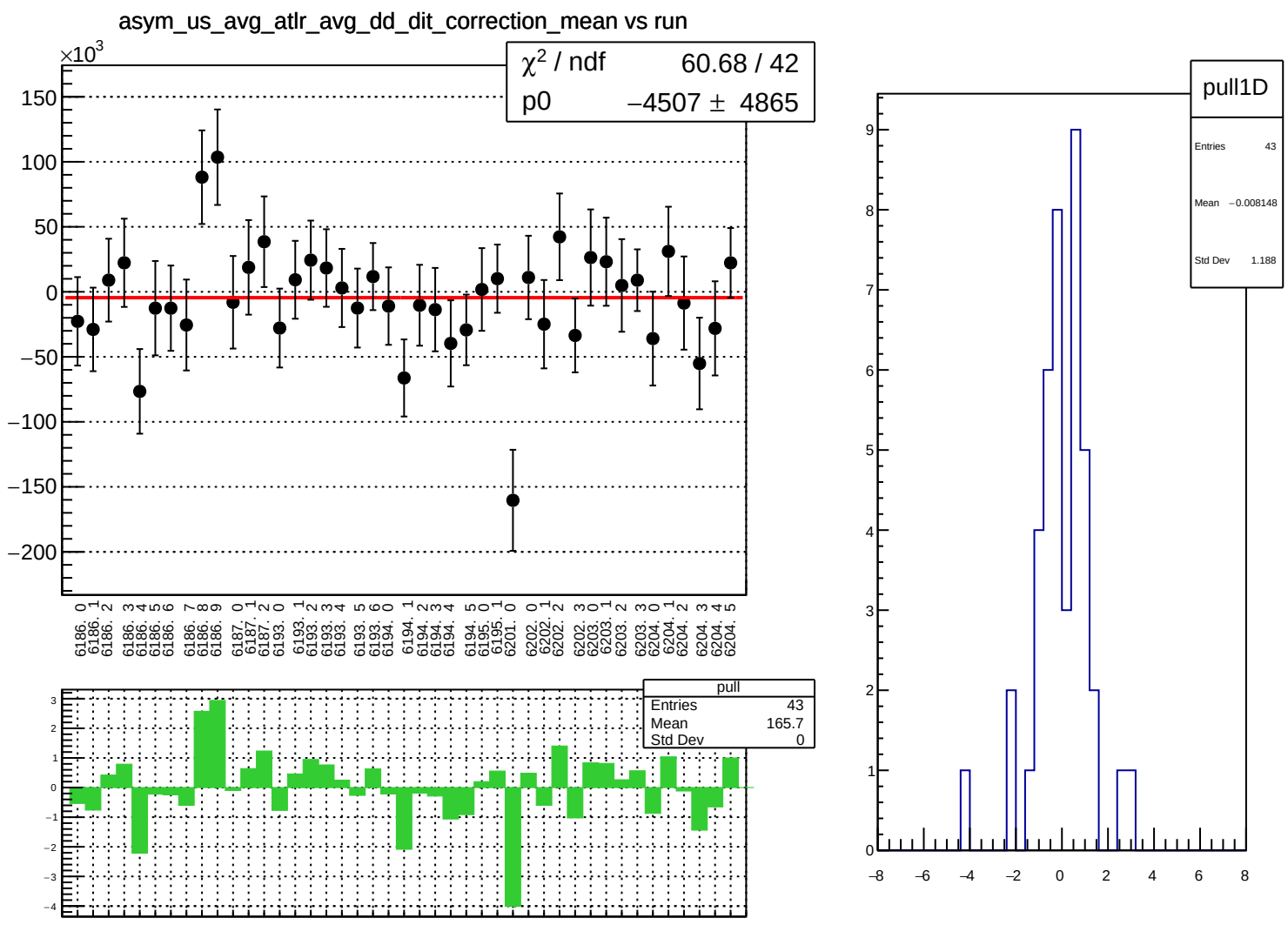
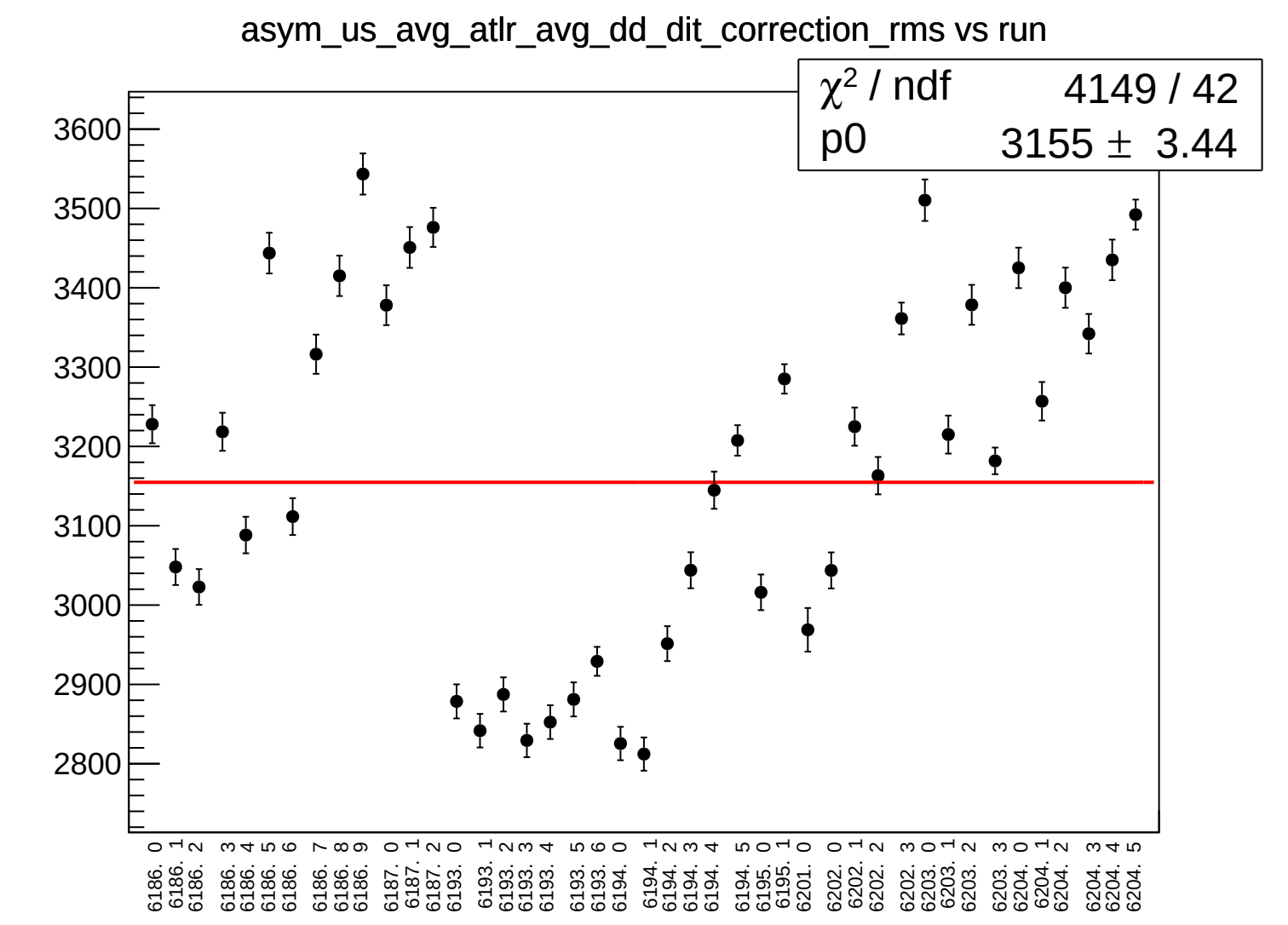
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 60.68 / 42
p0 −4507 ± 4865
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 165.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.008148
Std Dev 1.188
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_dit_correction_rms vs run
χ² / ndf 4149 / 42
p0 3155 ± 3.44
3600
3500
3400
3300
3200
3100
3000
2900
2800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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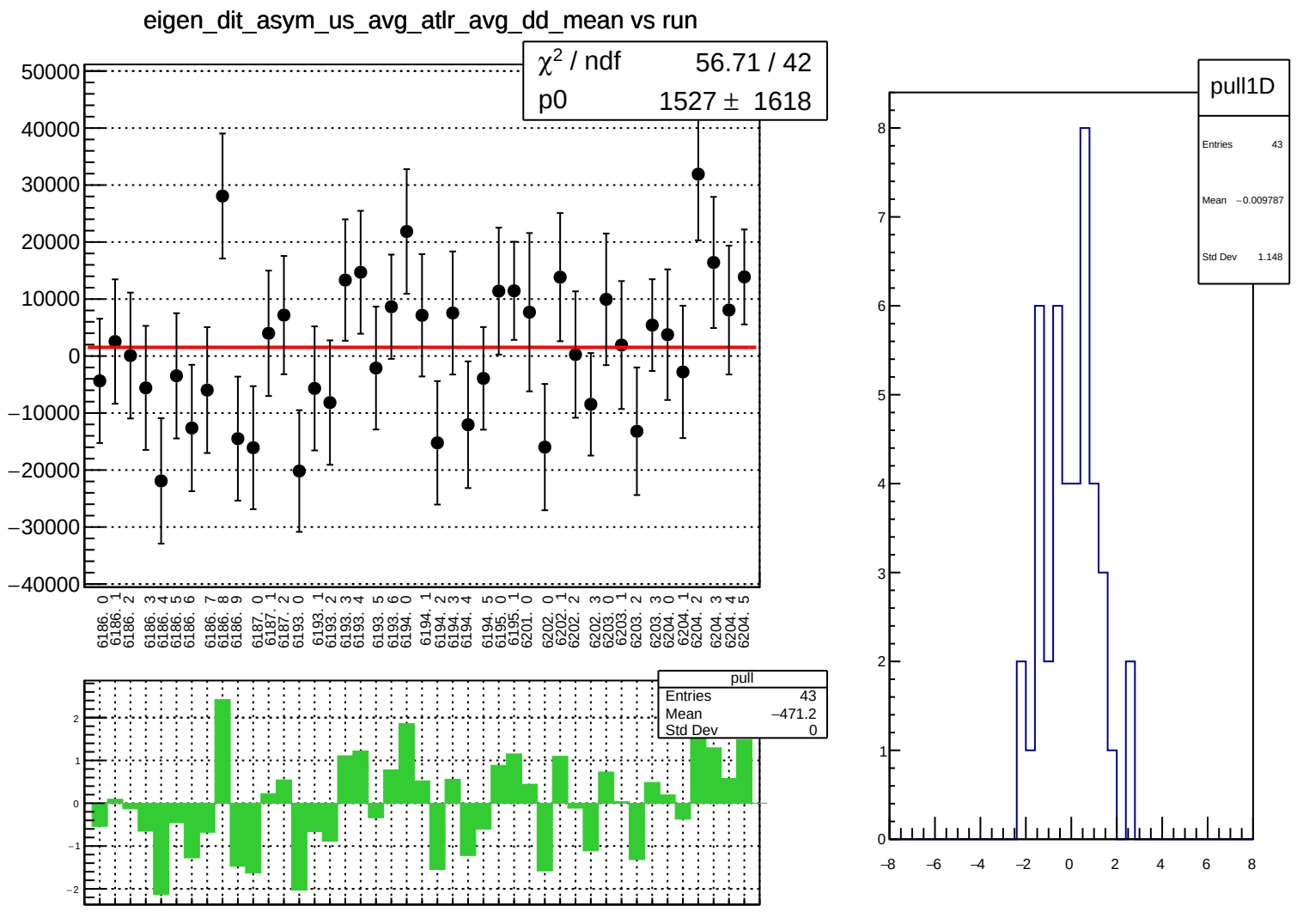
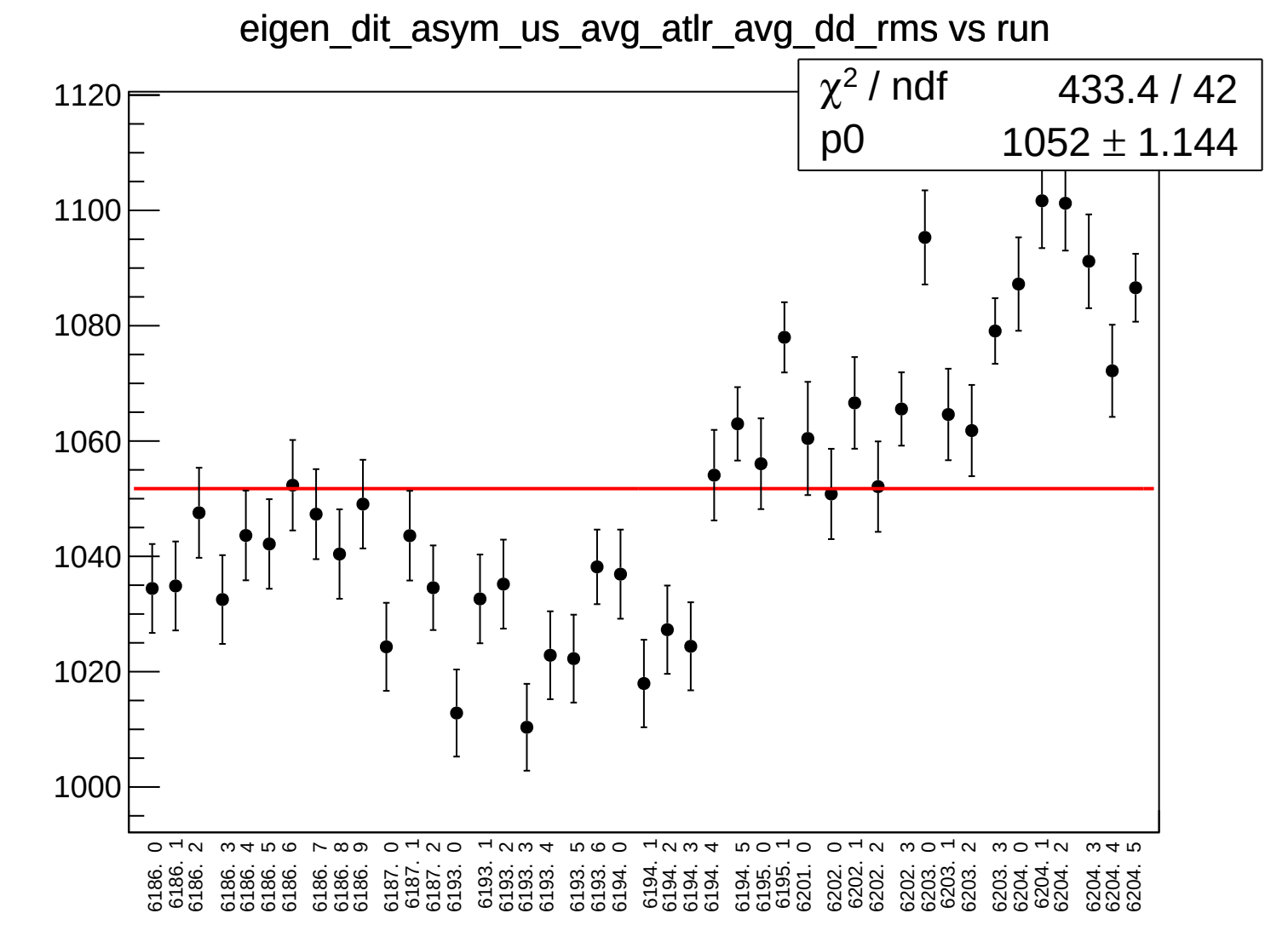
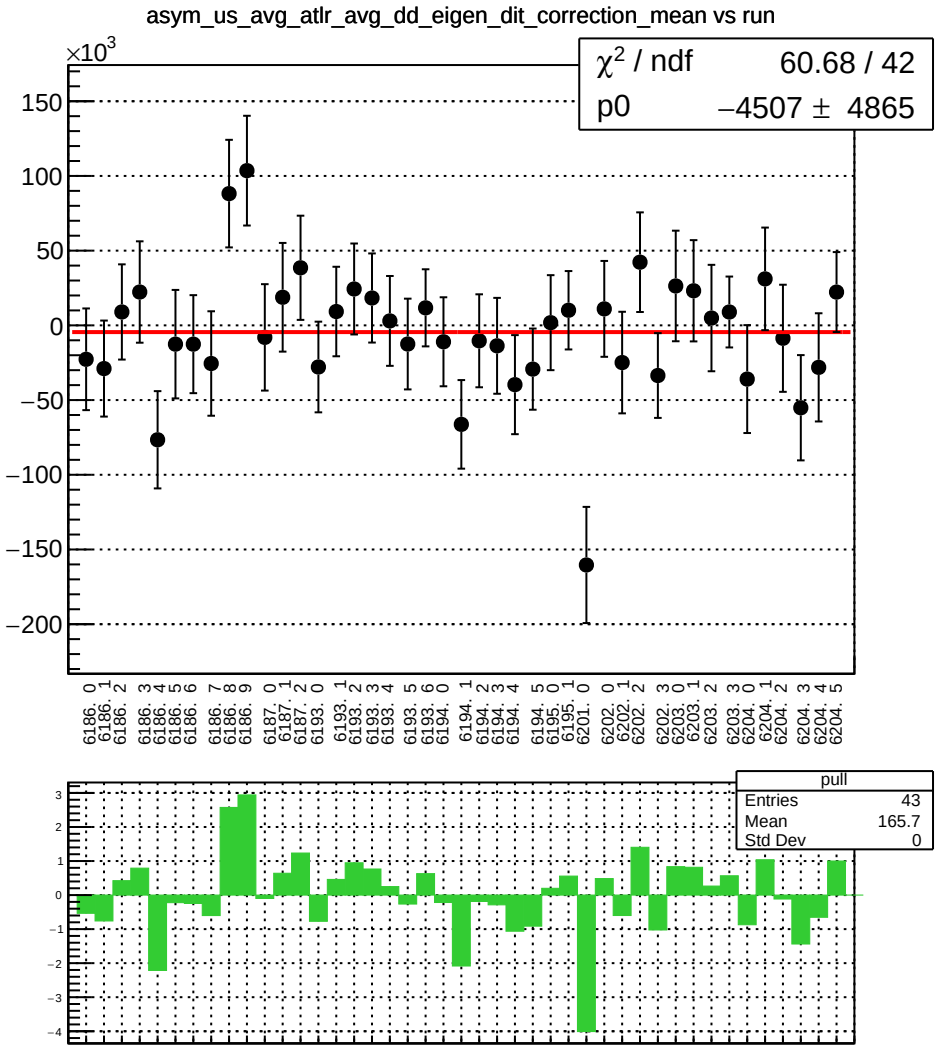
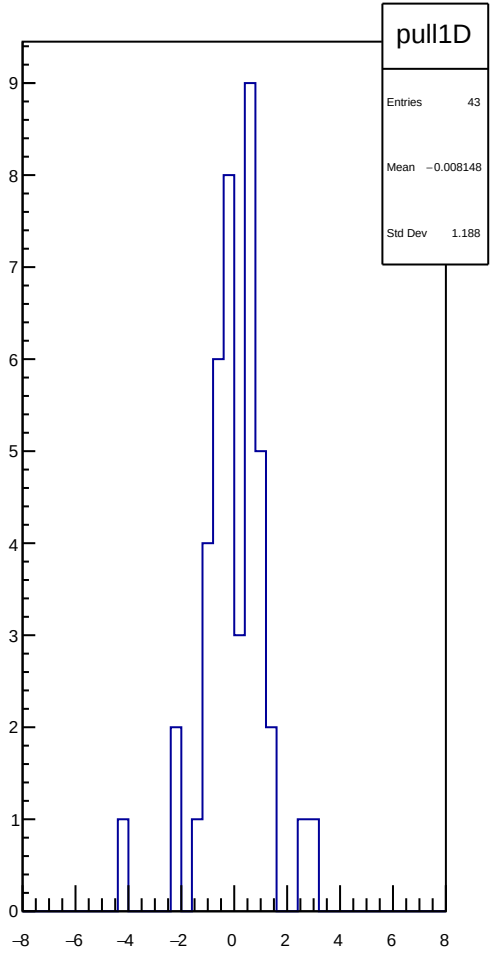
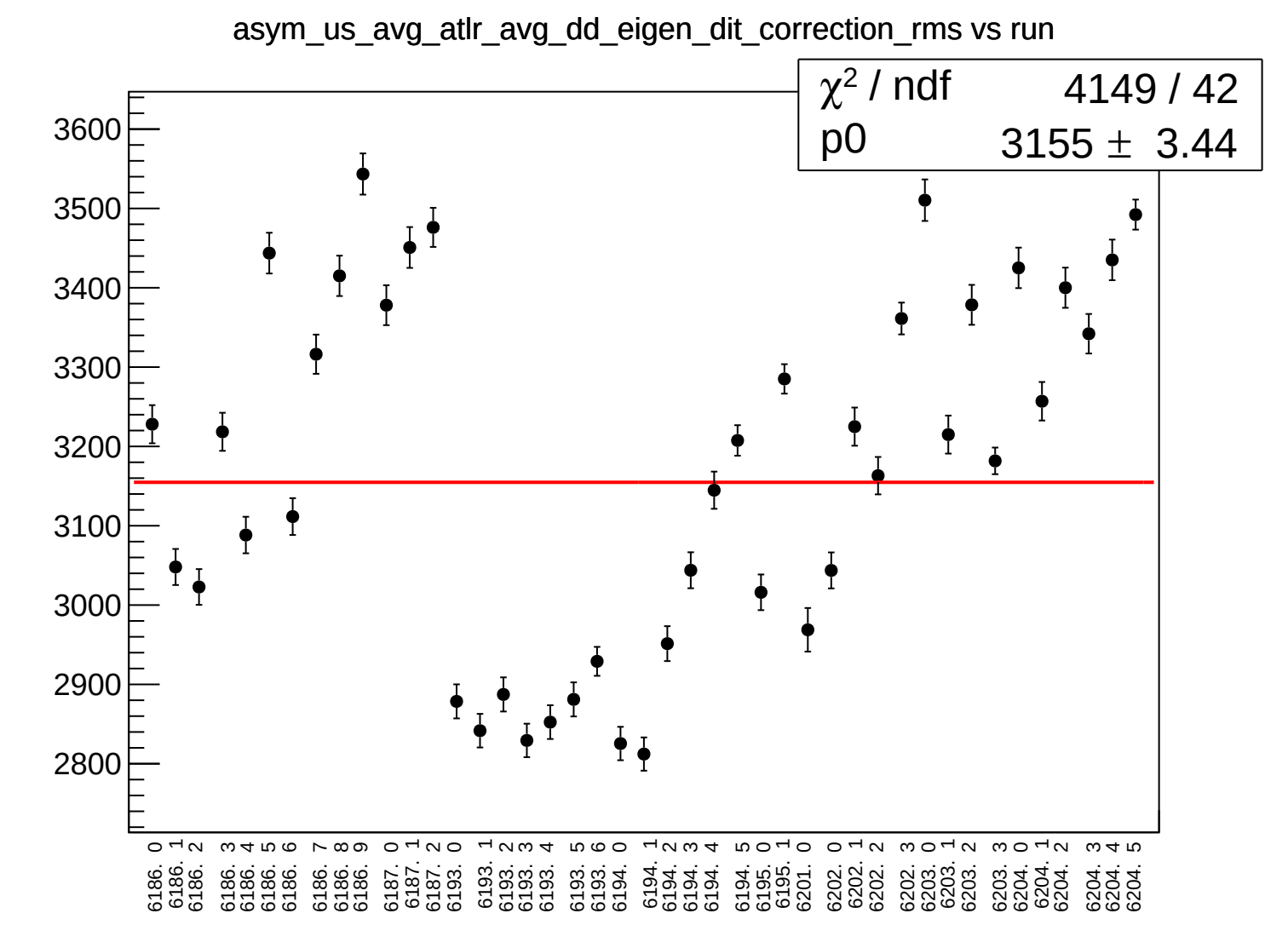
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

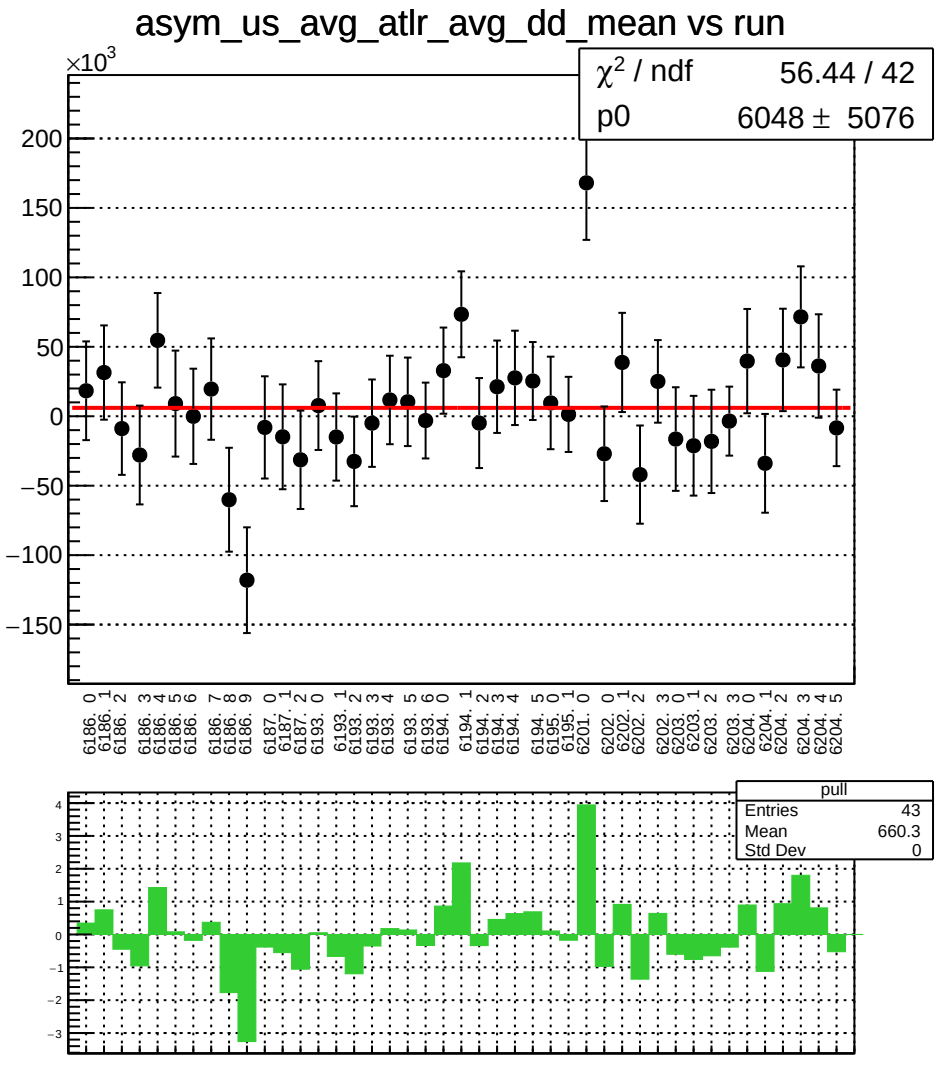

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 56.71 / 42
p0 1527 ± 1618
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −471.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.009787
Std Dev 1.148
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

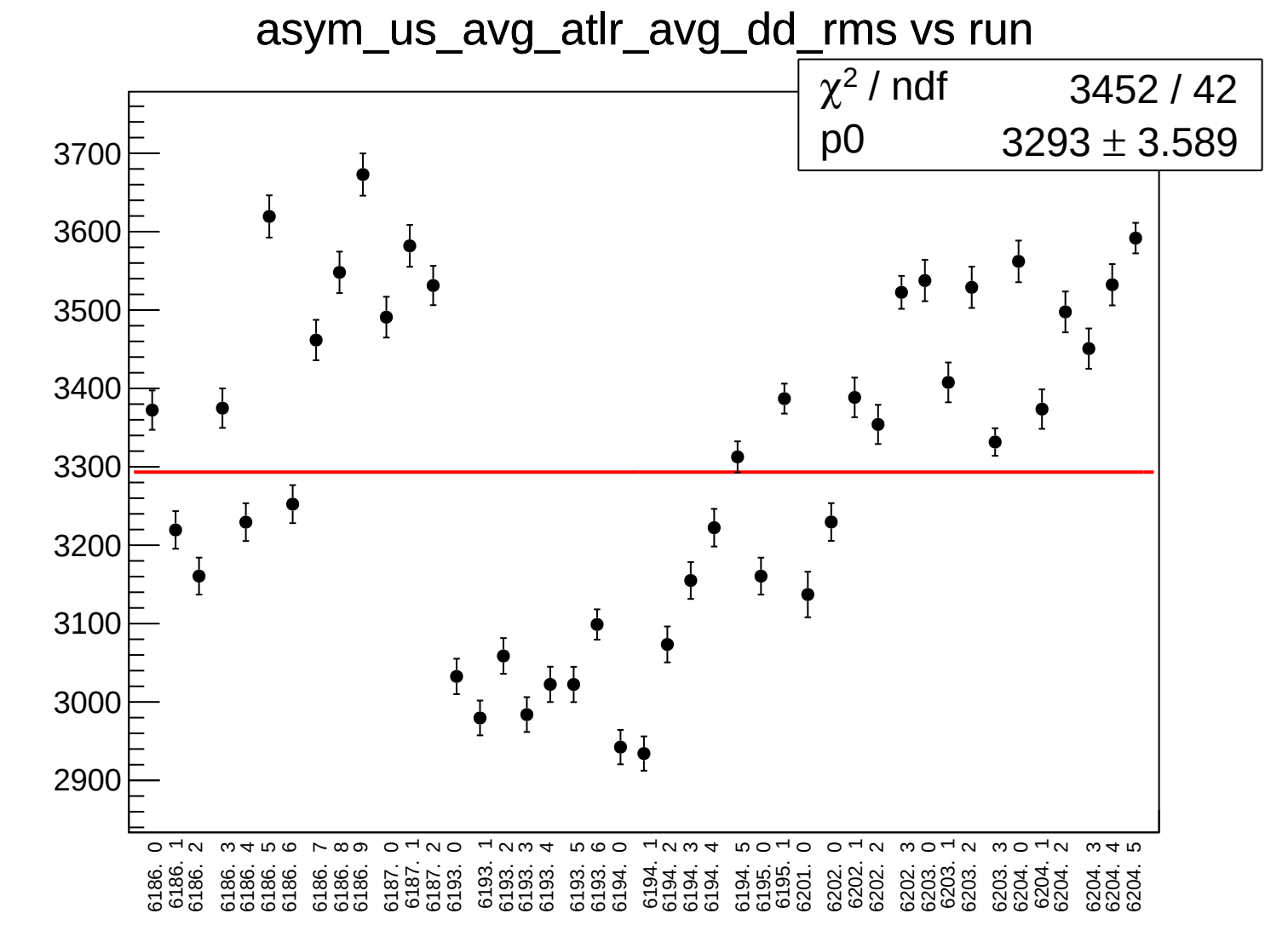

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 433.4 / 42
p0 1052 ± 1.144
1120
1100
1080
1060
1040
1020
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

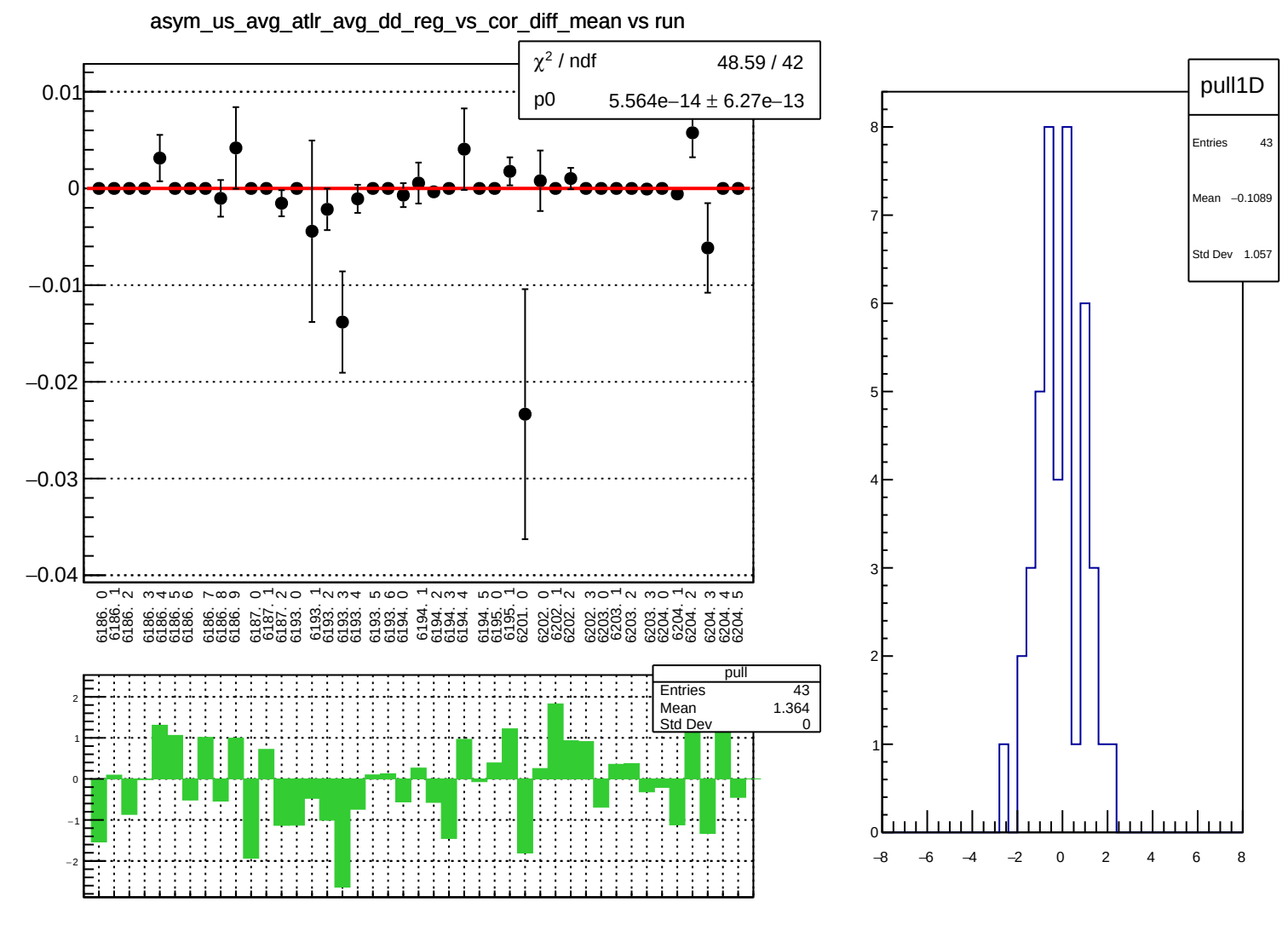

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 60.68 / 42
p0 −4507 ± 4865
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 165.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4

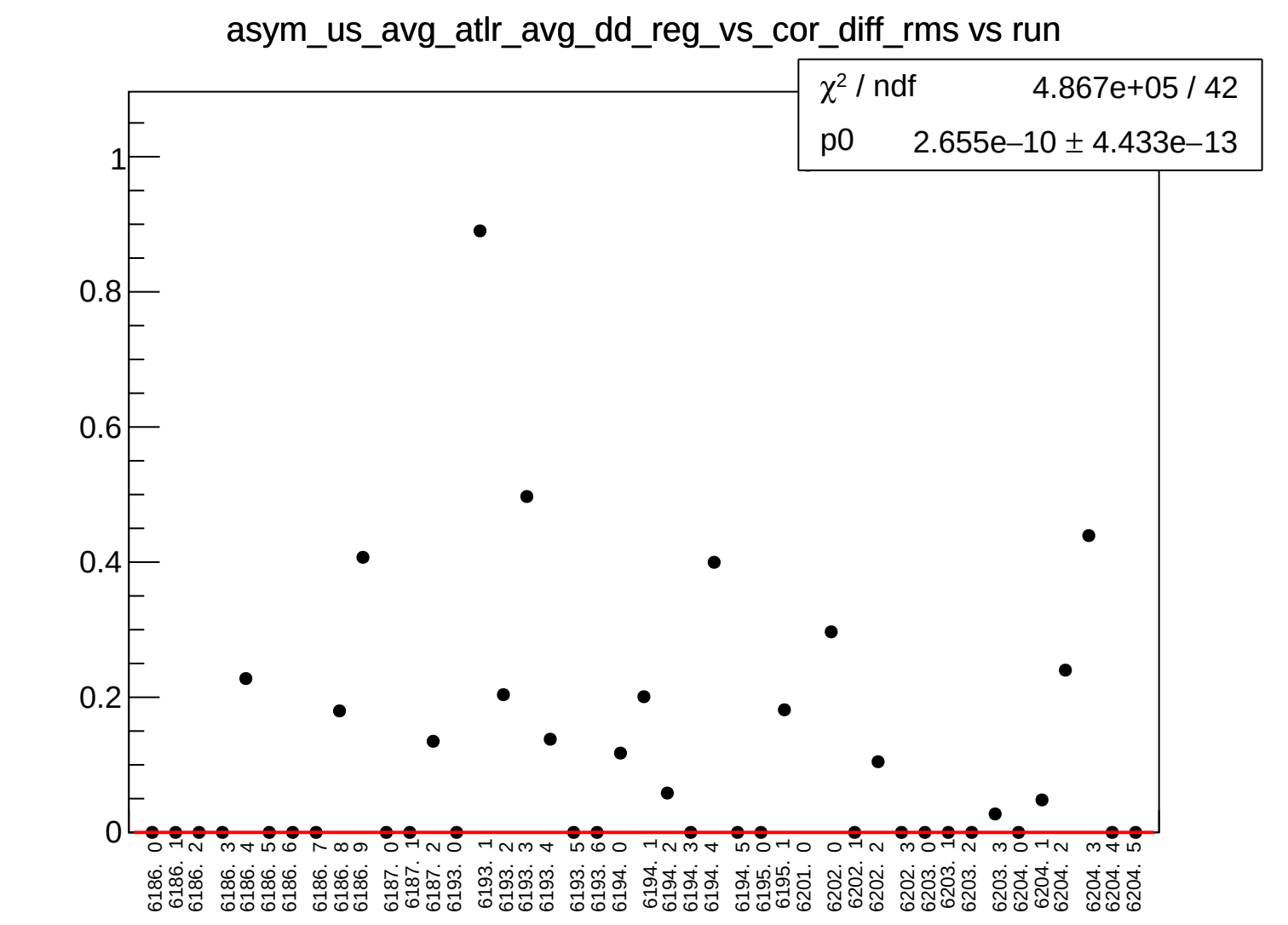

pull1D
Entries 43
Mean −0.008148
Std Dev 1.188
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

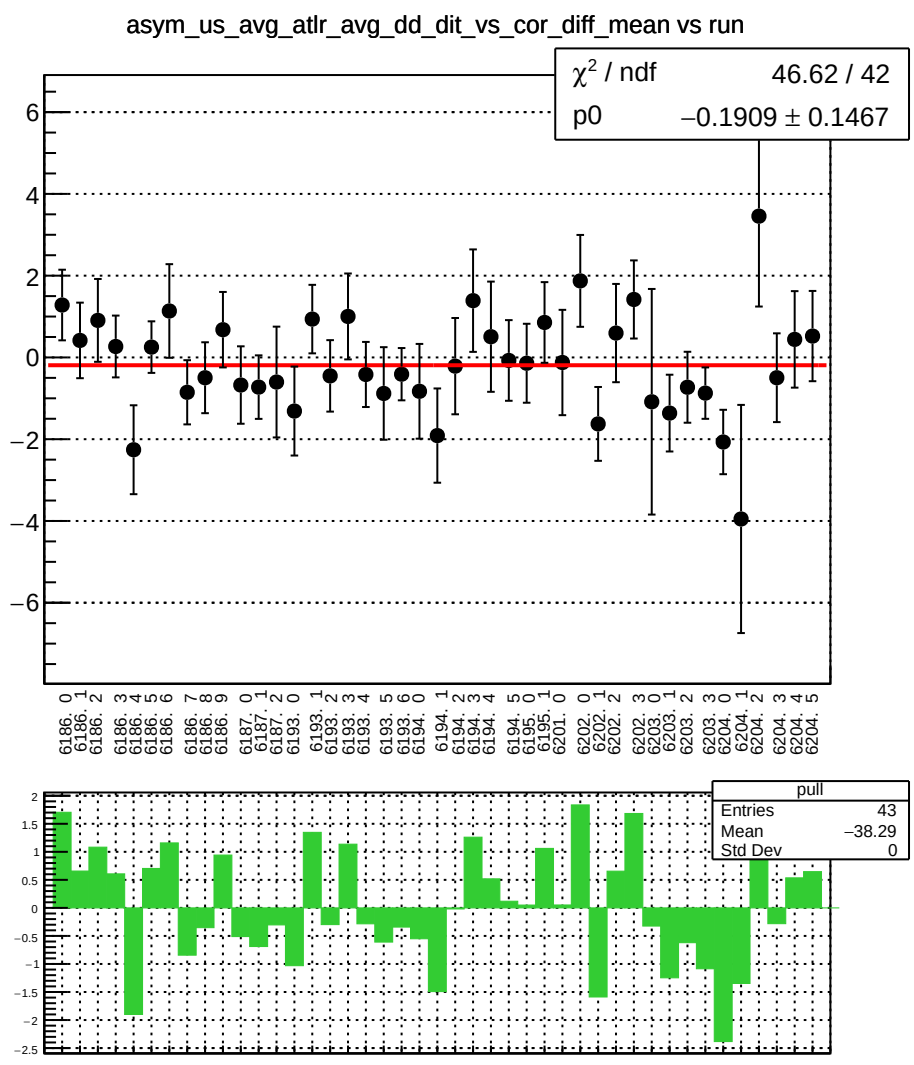

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4149 / 42
p0 3155 ± 3.44
3600
3500
3400
3300
3200
3100
3000
2900
2800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

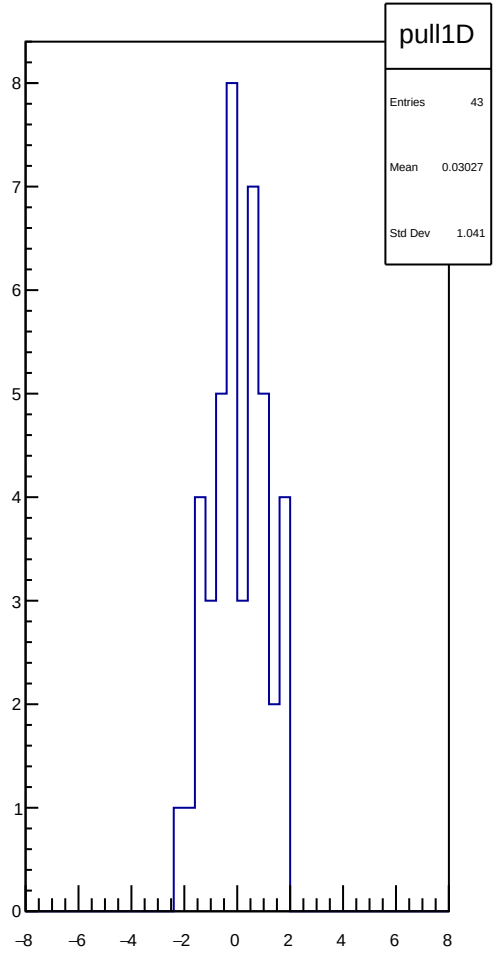

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 56.44 / 42
p0 6048 ± 5076
200
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 660.3
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.004164
Std Dev 1.146
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

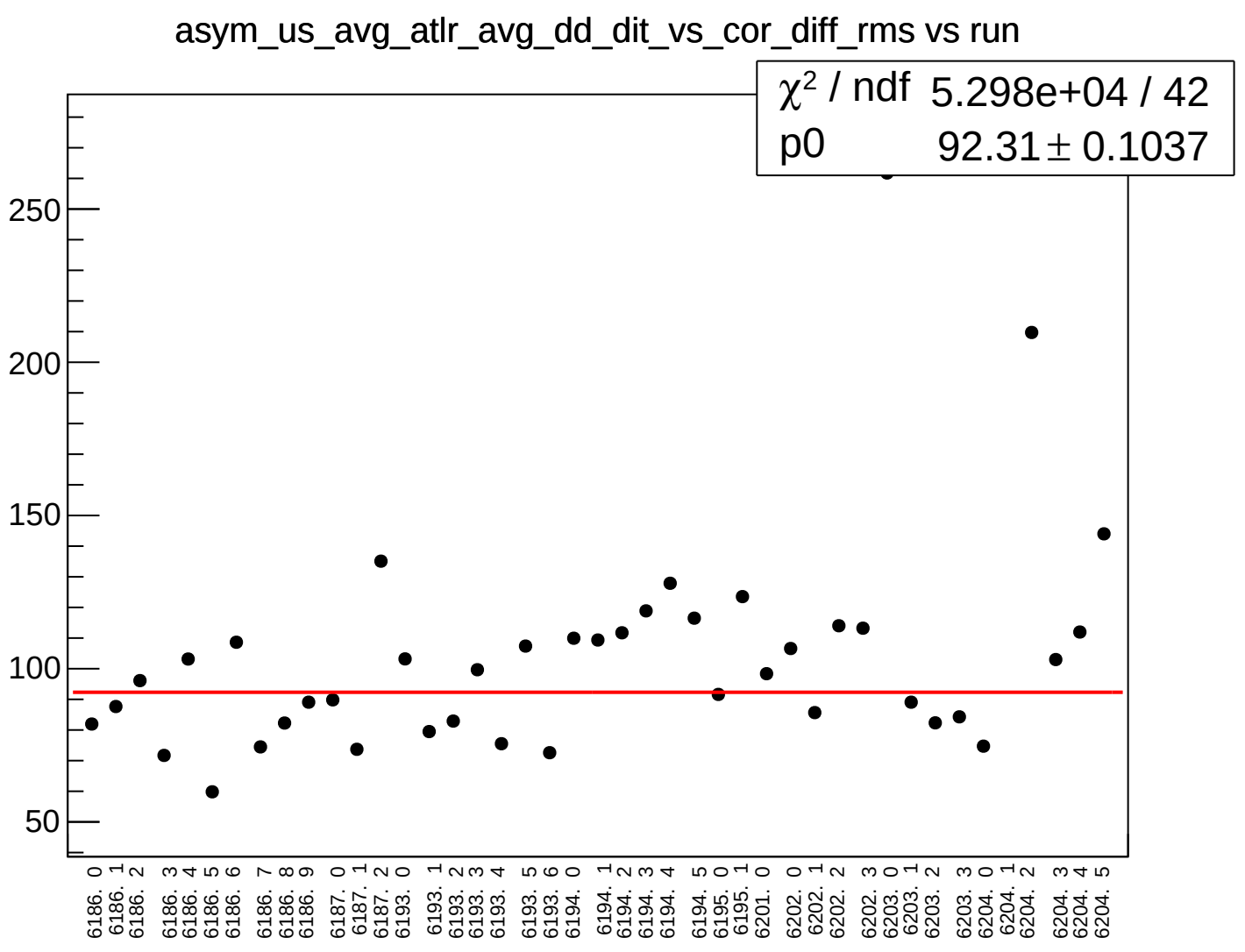

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 3452 / 42
p0 3293 ± 3.589
3700
3600
3500
3400
3300
3200
3100
3000
2900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

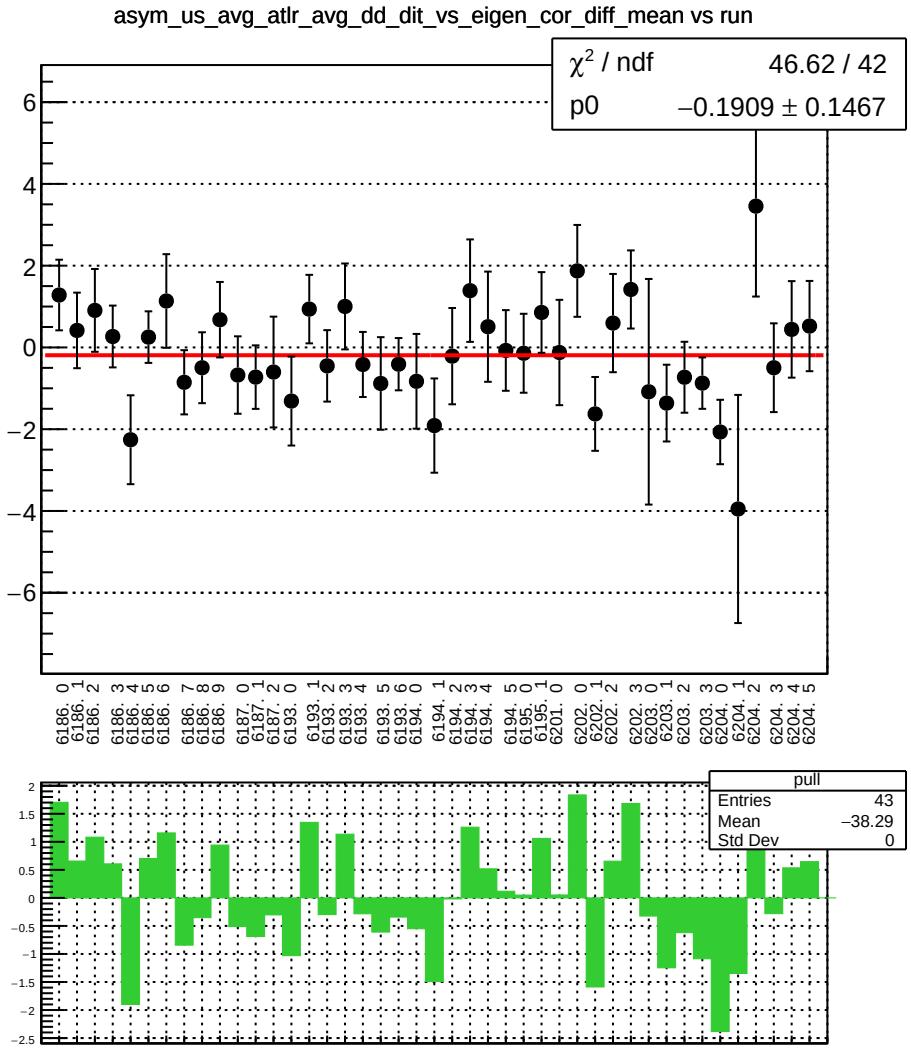

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 48.59 / 42
p0 5.564e−14 ± 6.27e−13
0.01
0
−0.01
−0.02
−0.03
−0.04
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1.364
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.1089
Std Dev 1.057
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

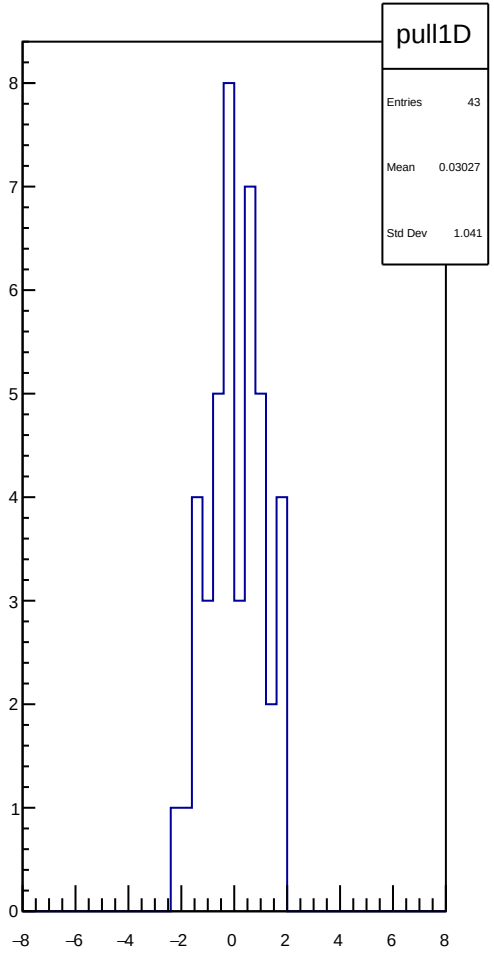

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.867e+05 / 42
p0 2.655e−10 ± 4.433e−13
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

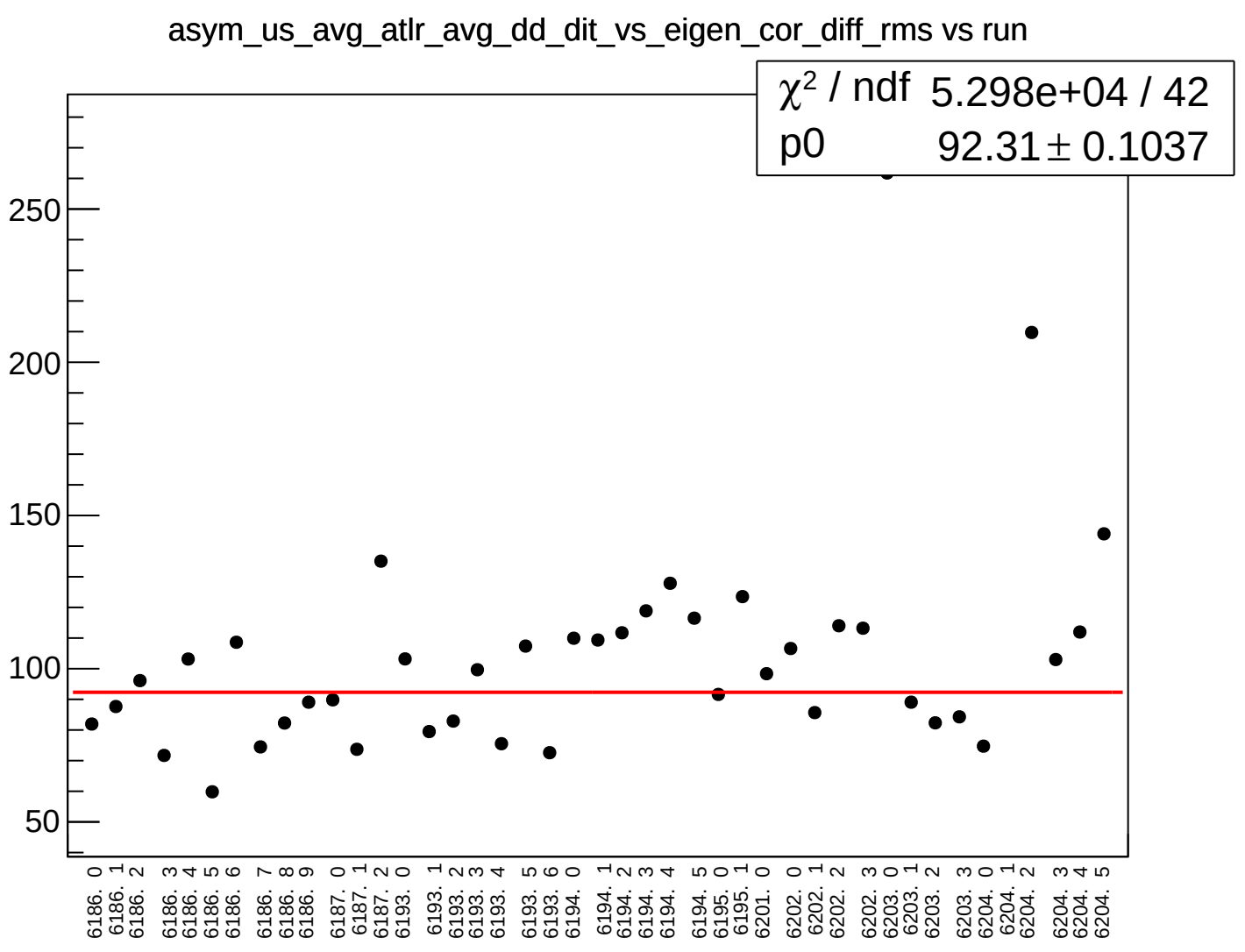

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 46.62 / 42
p0 −0.1909 ± 0.1467
pull
Entries 43
Mean −38.29
Std Dev 0

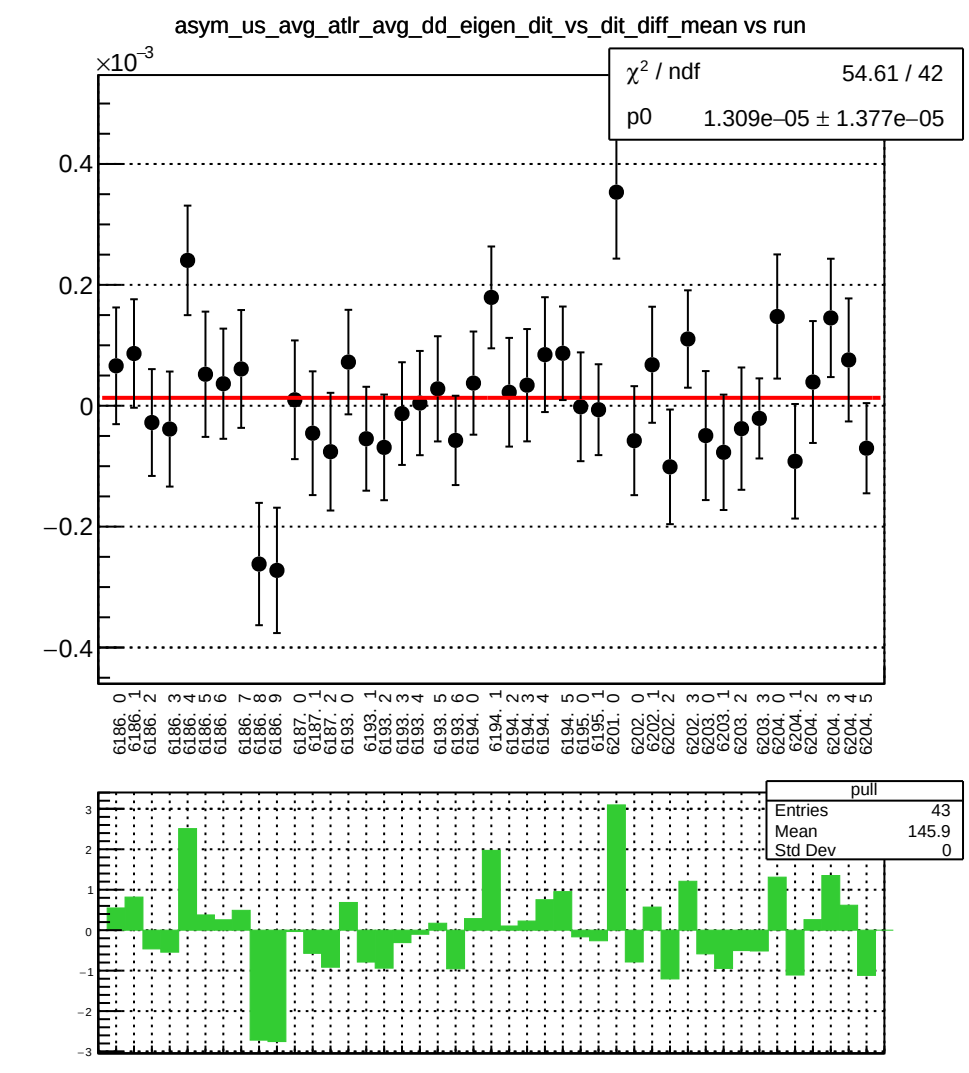

pull1D
Entries 43
Mean 0.03027
Std Dev 1.041

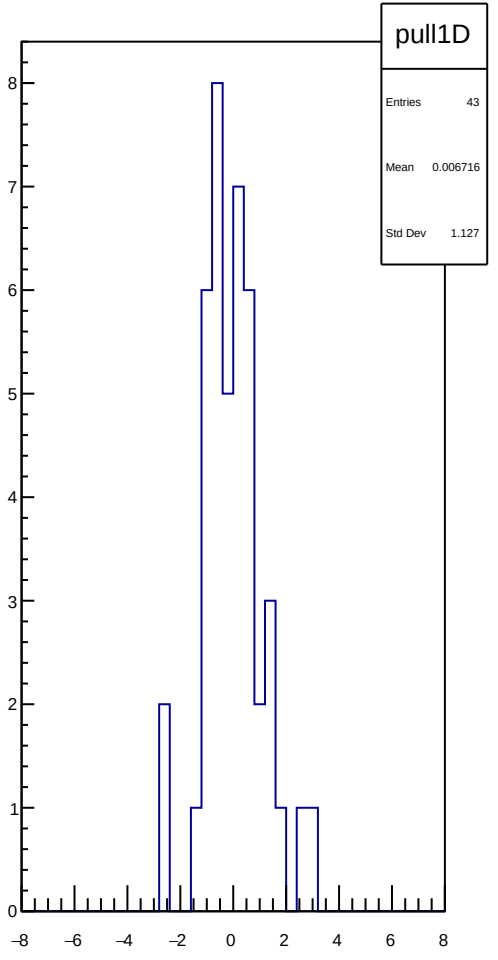

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.298e+04 / 42
p0 92.31 ± 0.1037
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

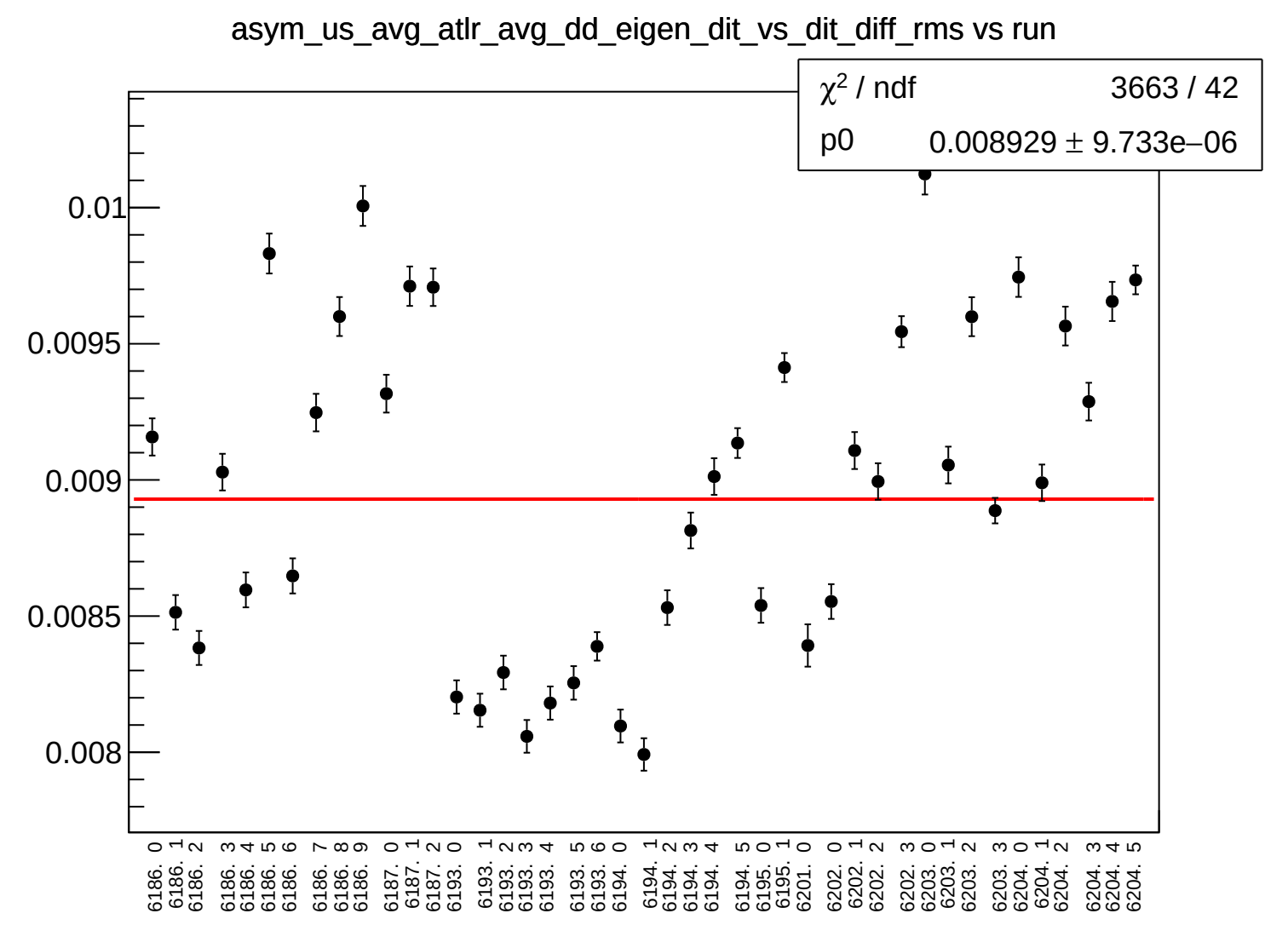

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.62 / 42
p0 −0.1909 ± 0.1467
pull
Entries 43
Mean −38.29
Std Dev 0

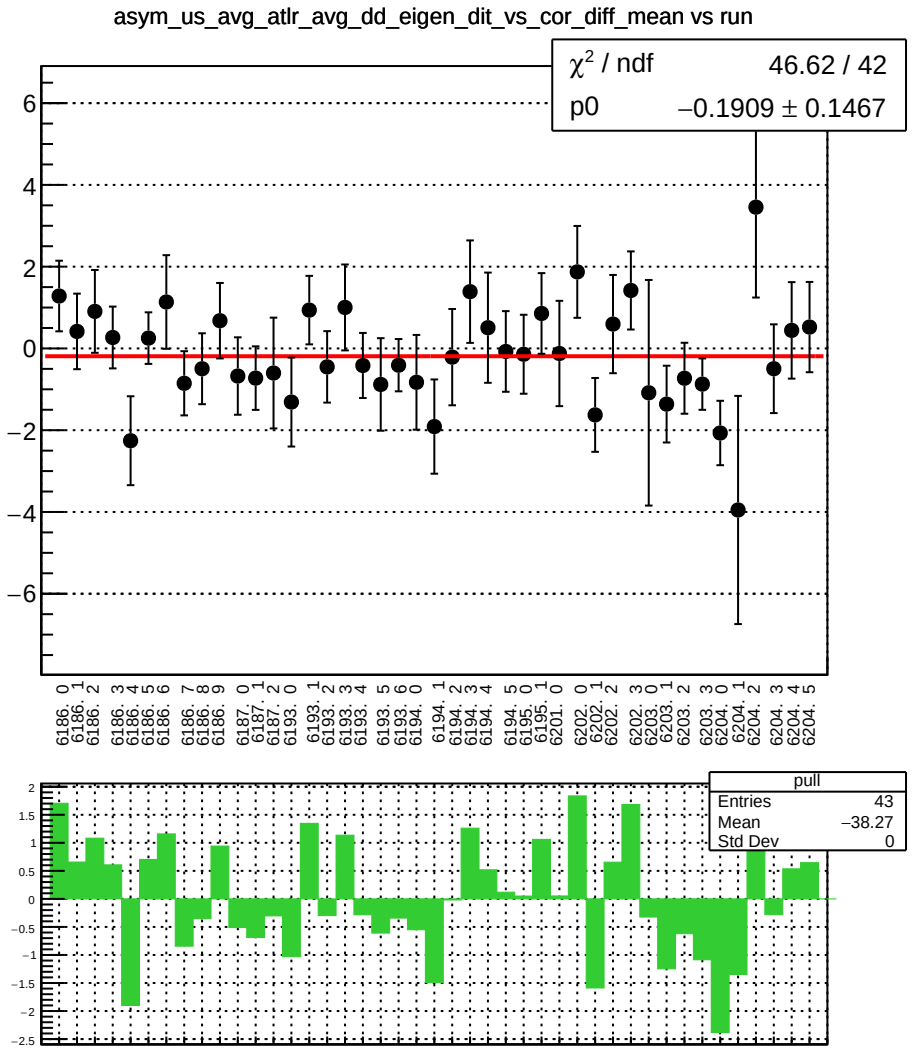

pull1D
Entries 43
Mean 0.03027
Std Dev 1.041

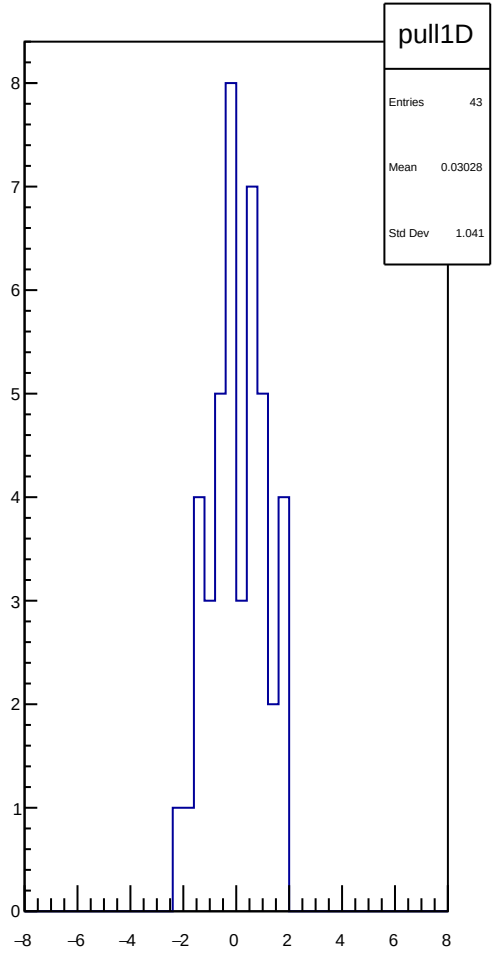

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.298e+04 / 42
p0 92.31 ± 0.1037
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

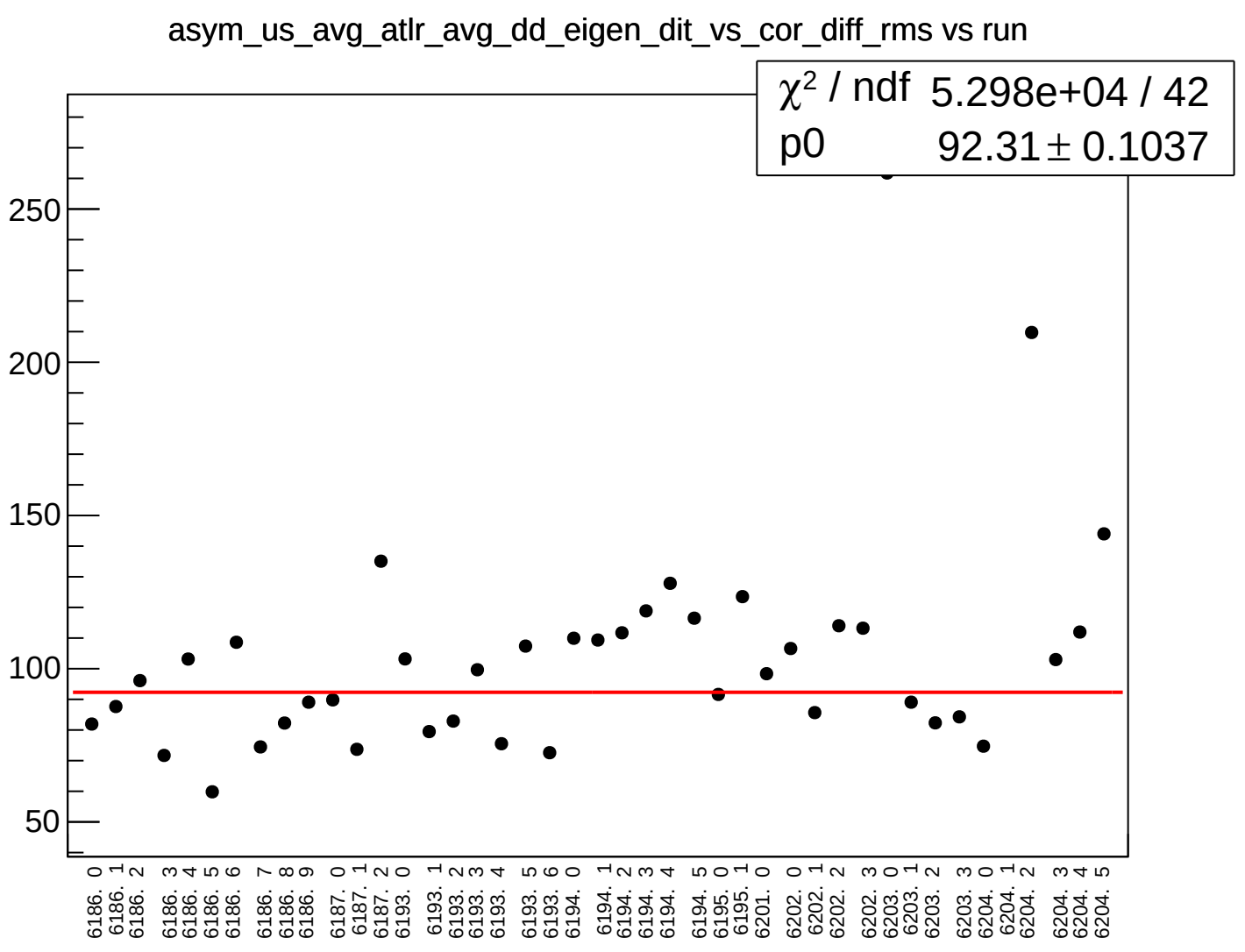

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 54.61 / 42
p0 1.309e−05 ± 1.377e−05
0.4
0.2
0
−0.2
−0.4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 145.9
Std Dev 0
3
2
1
0
−1
−2
−3

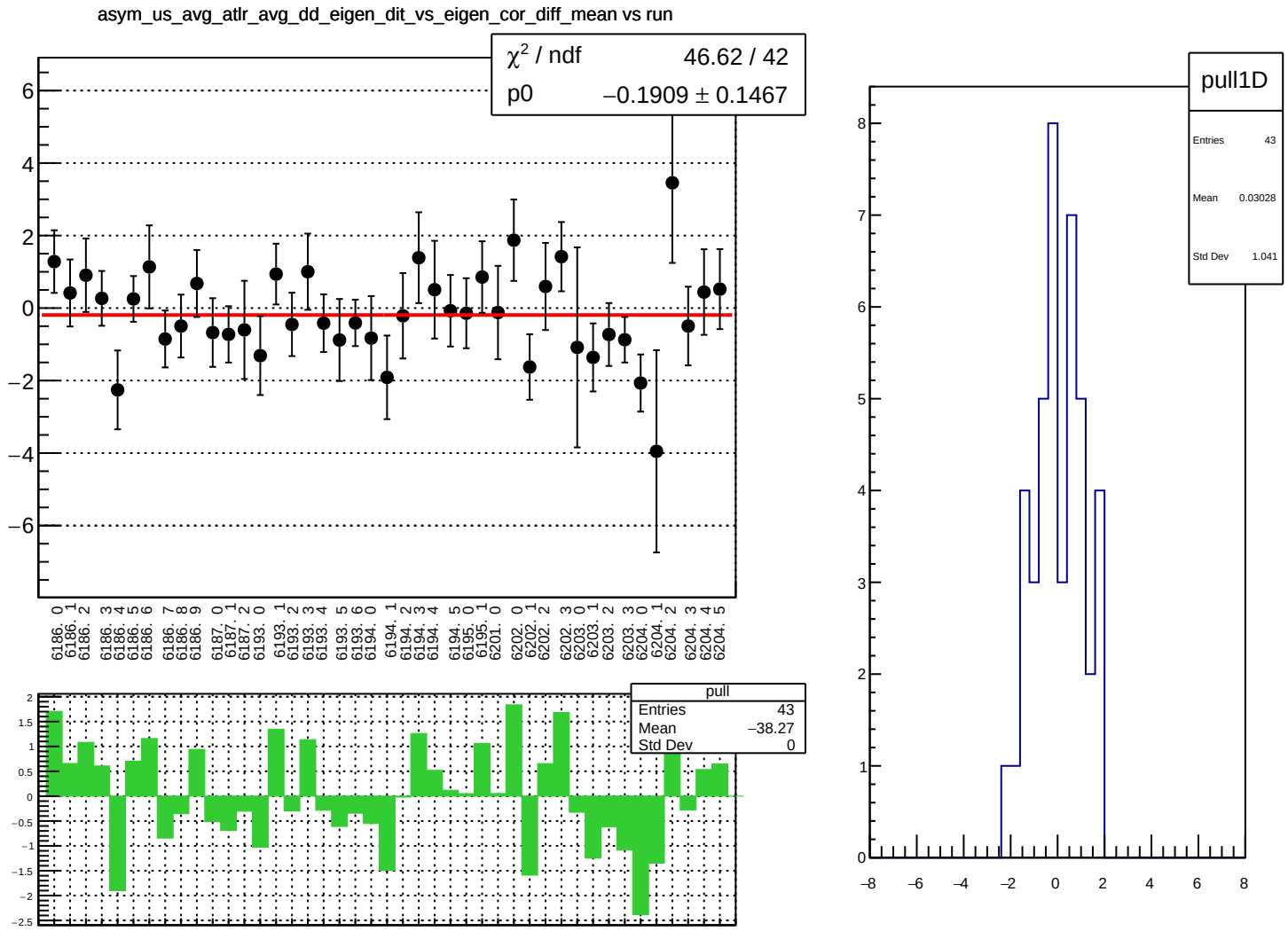

pull1D
Entries 43
Mean 0.006716
Std Dev 1.127
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

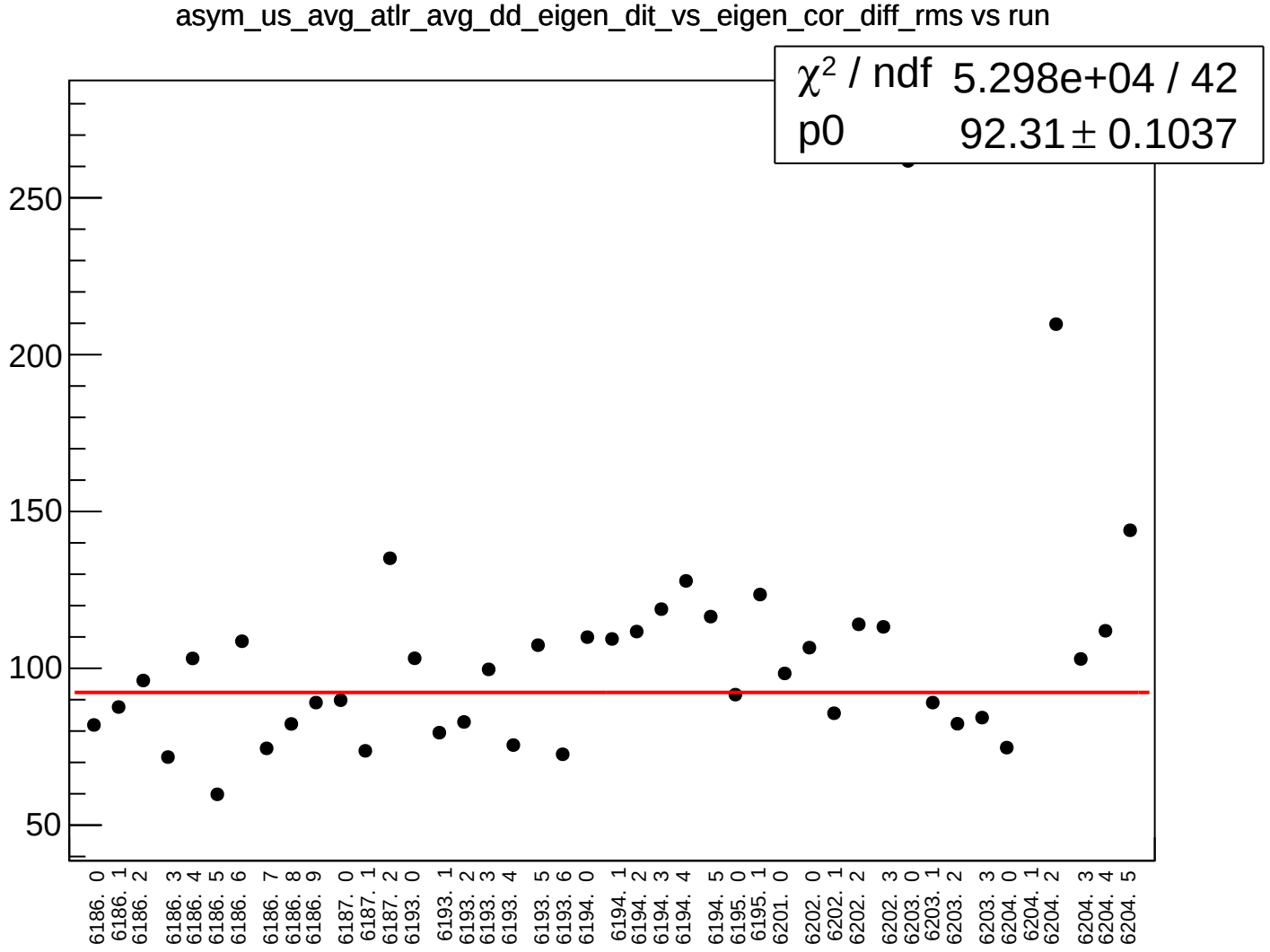

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3663 / 42
p0 0.008929 ± 9.733e−06
0.01
0.0095
0.009
0.0085
0.008
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

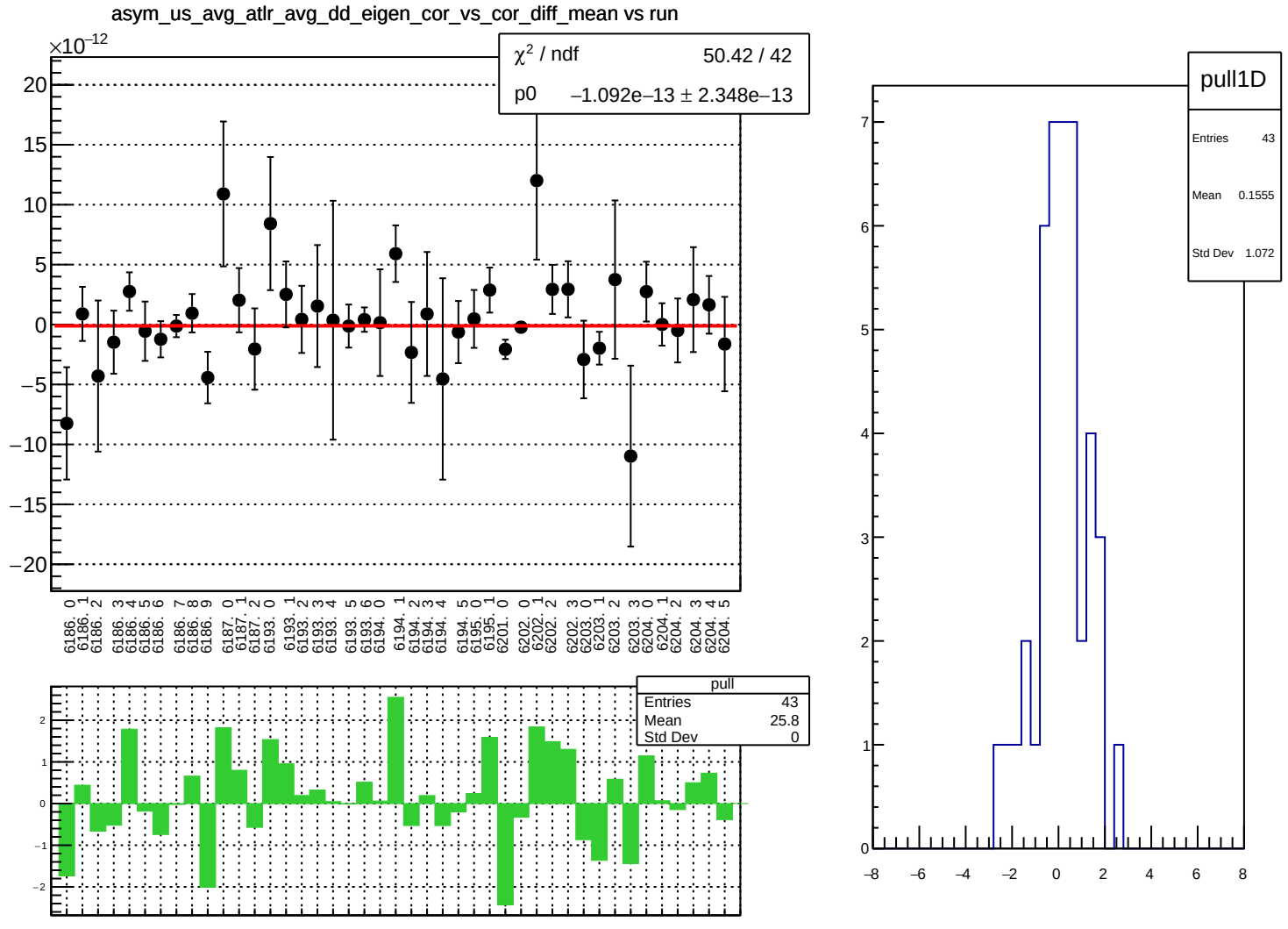

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.62 / 42
p0 −0.1909 ± 0.1467
pull
Entries 43
Mean −38.27
Std Dev 0

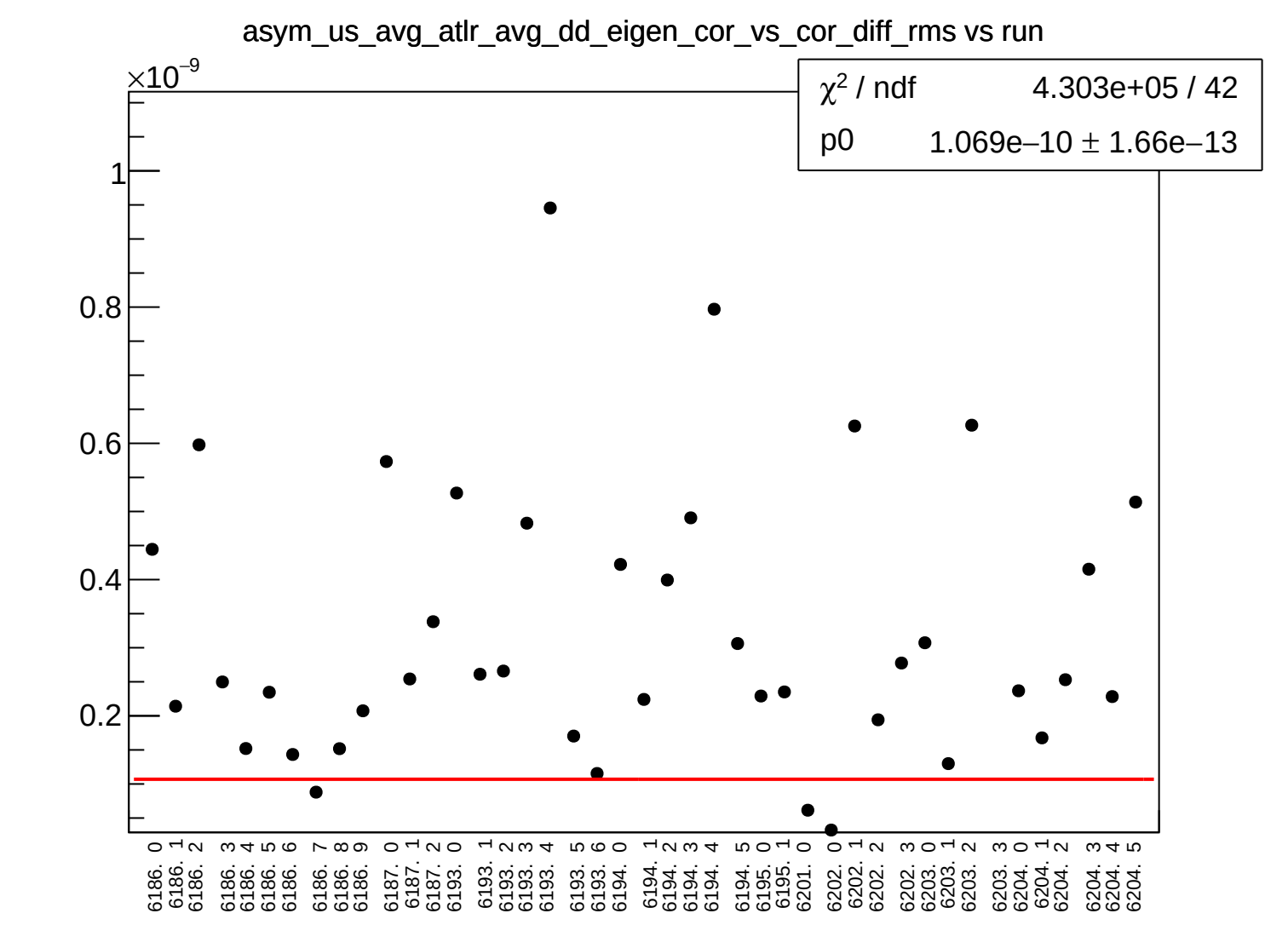

pull1D
Entries 43
Mean 0.03028
Std Dev 1.041

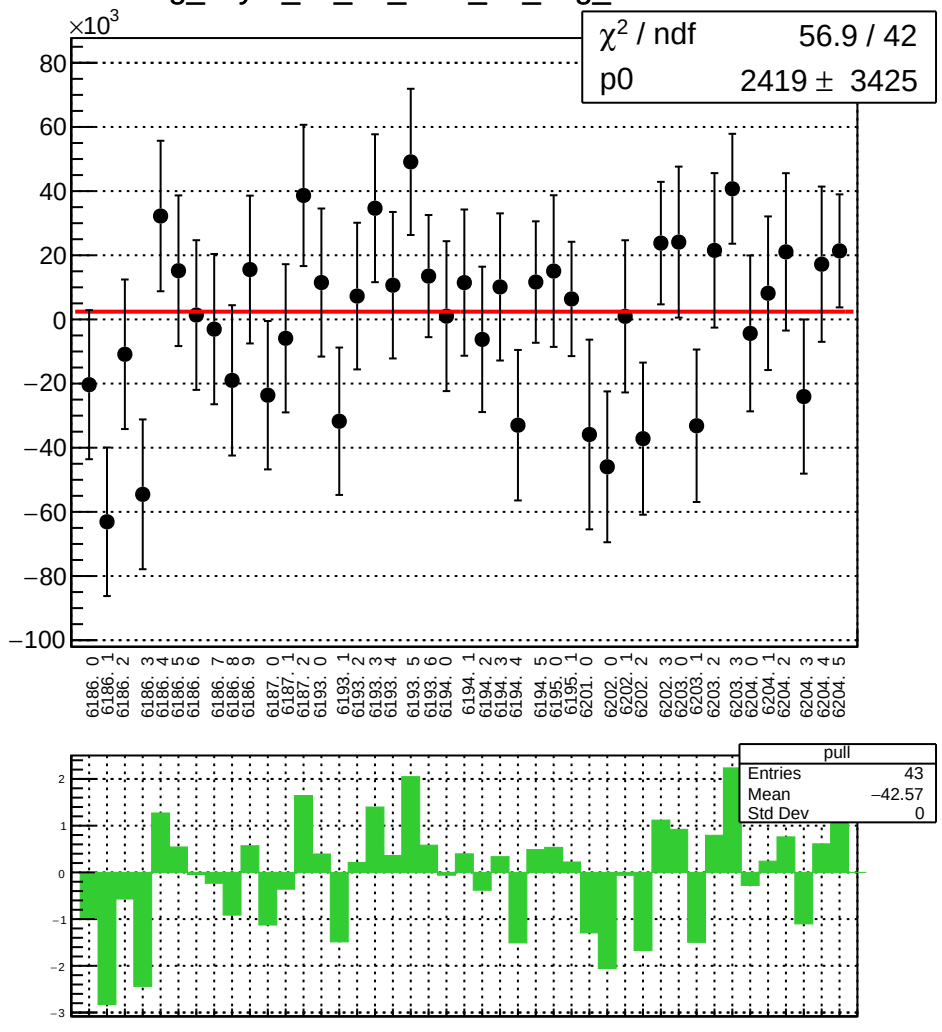

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.298e+04 / 42
p0 92.31 ± 0.1037
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

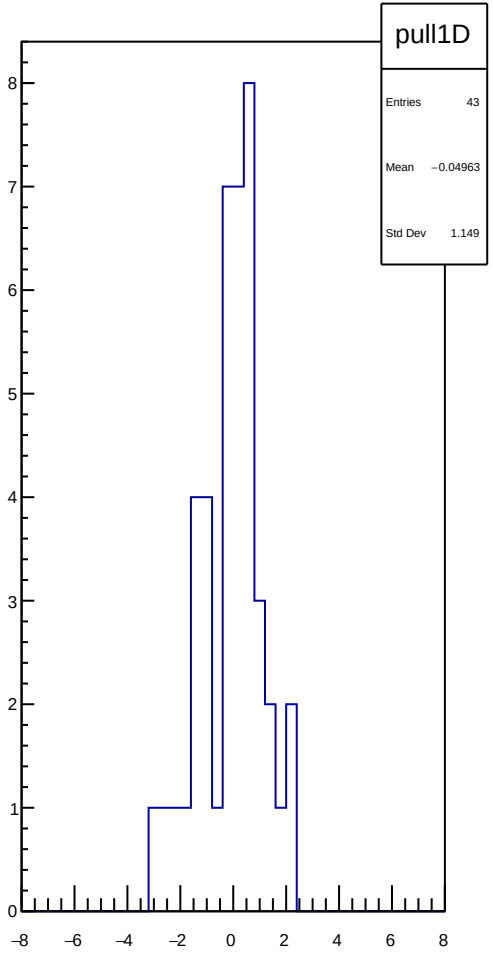

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.62 / 42
p0 −0.1909 ± 0.1467
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −38.27
Std Dev 0
pull1D
Entries 43
Mean 0.03028
Std Dev 1.041

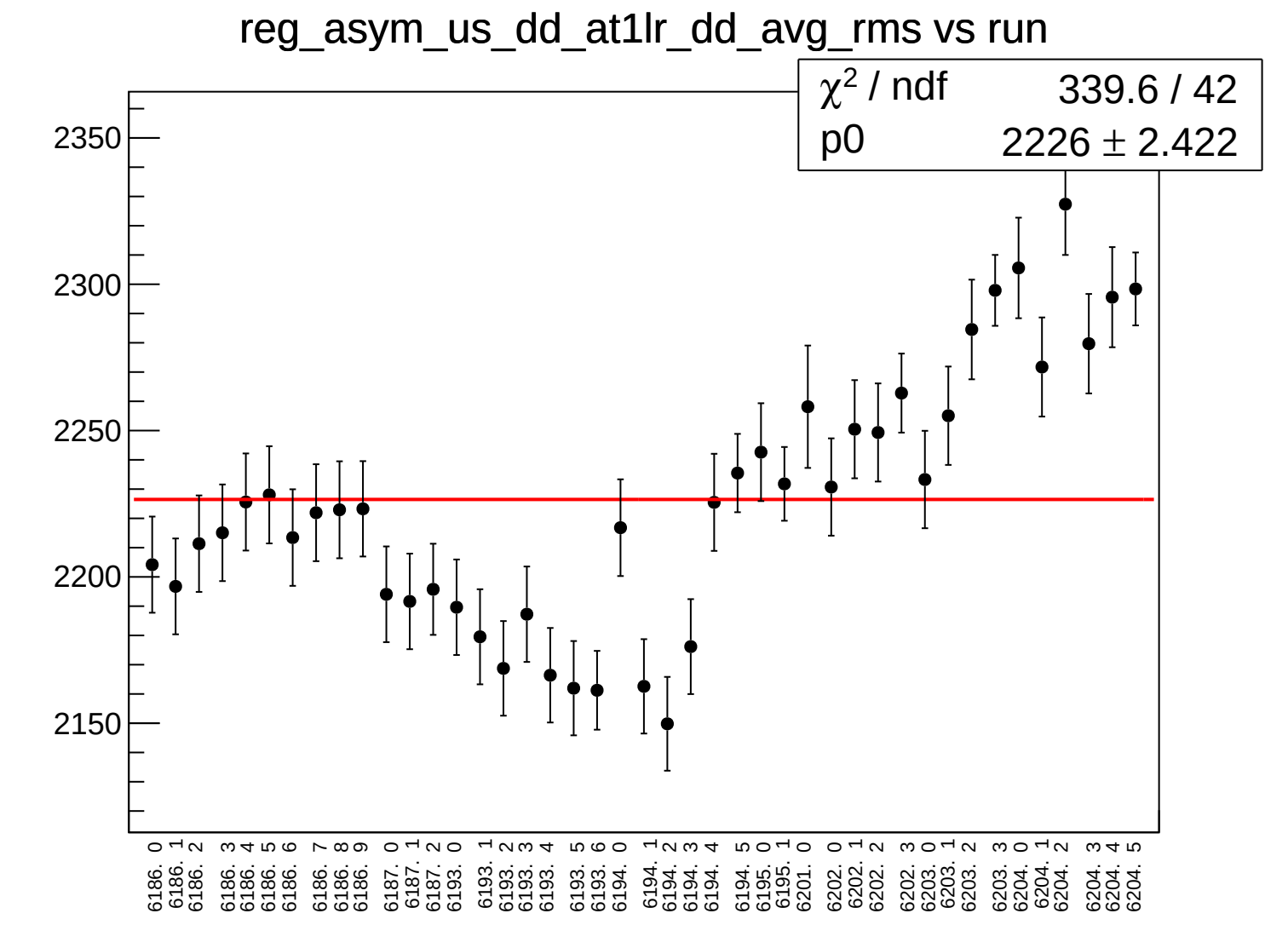

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.298e+04 / 42
p0 92.31 ± 0.1037
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

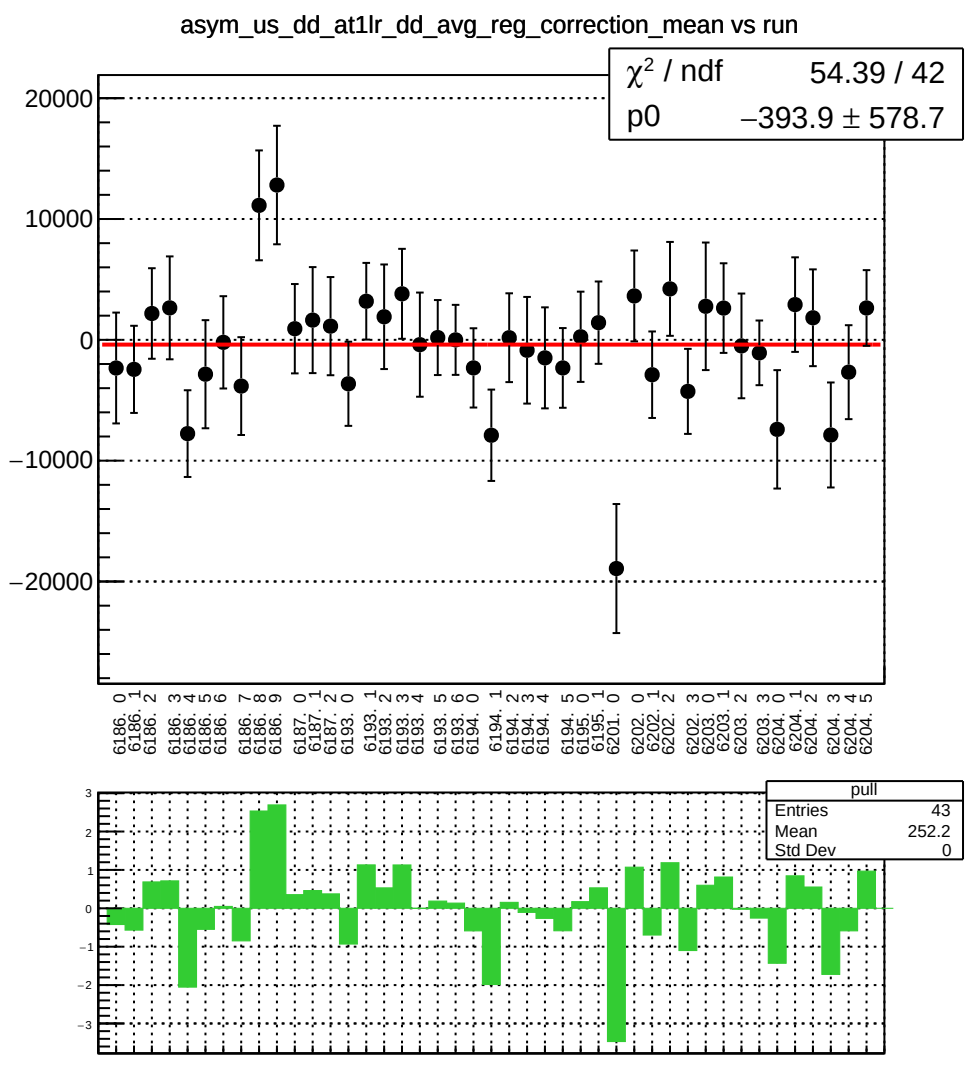

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 50.42 / 42
p0 −1.092e−13 ± 2.348e−13
pull
Entries 43
Mean 25.8
Std Dev 0
pull1D
Entries 43
Mean 0.1555
Std Dev 1.072

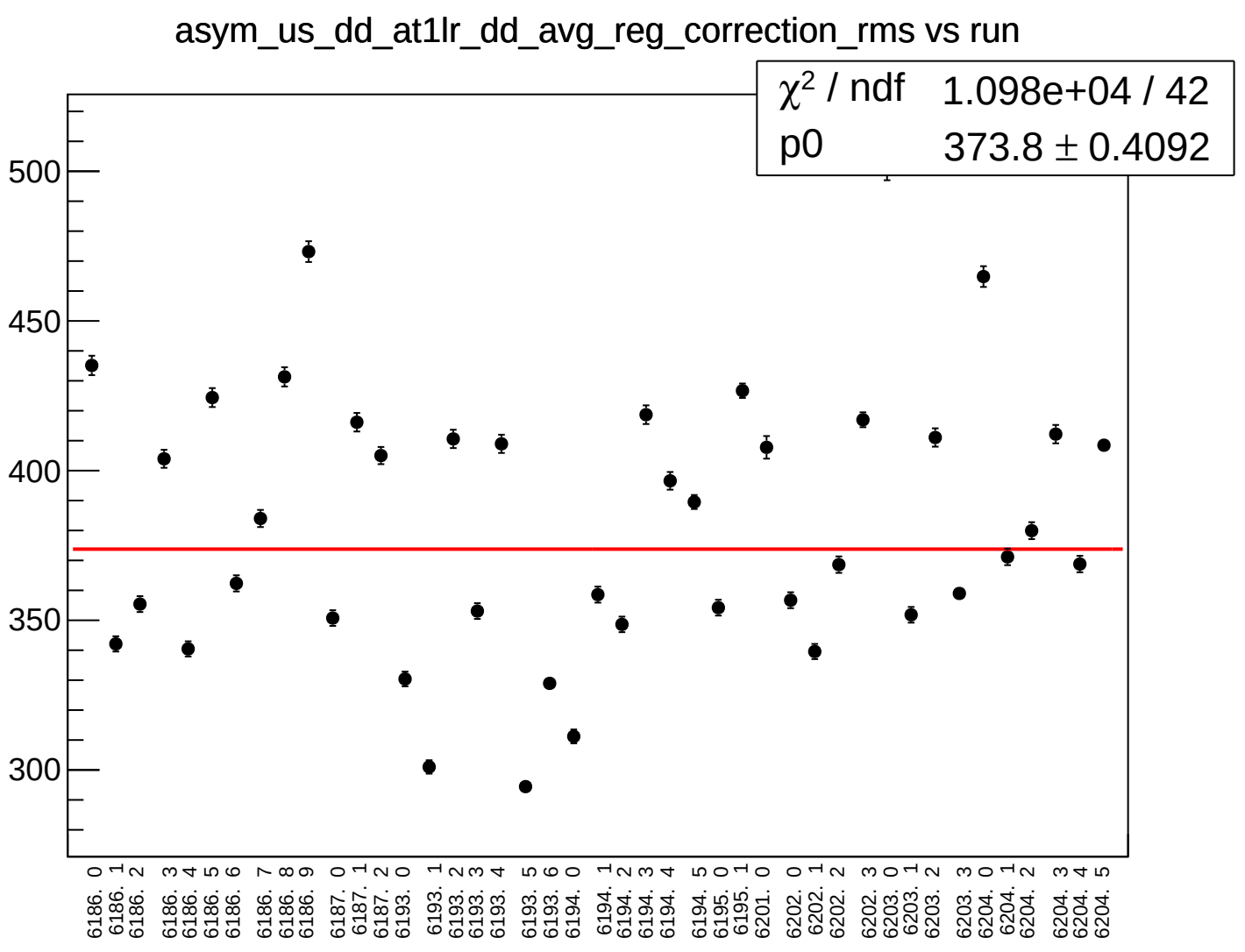

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.303e+05 / 42
p0 1.069e−10 ± 1.66e−13
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

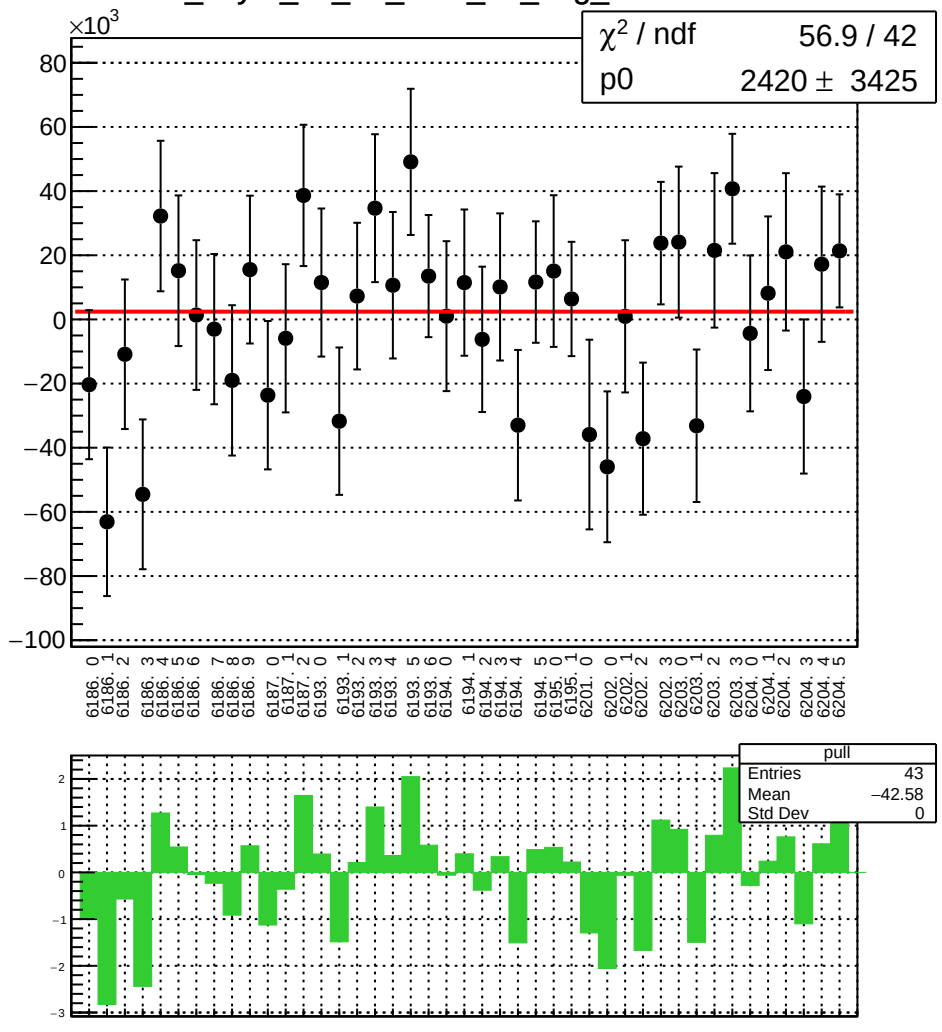

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 56.9 / 42
p0 2419 ± 3425
pull
Entries 43
Mean −42.57
Std Dev 0

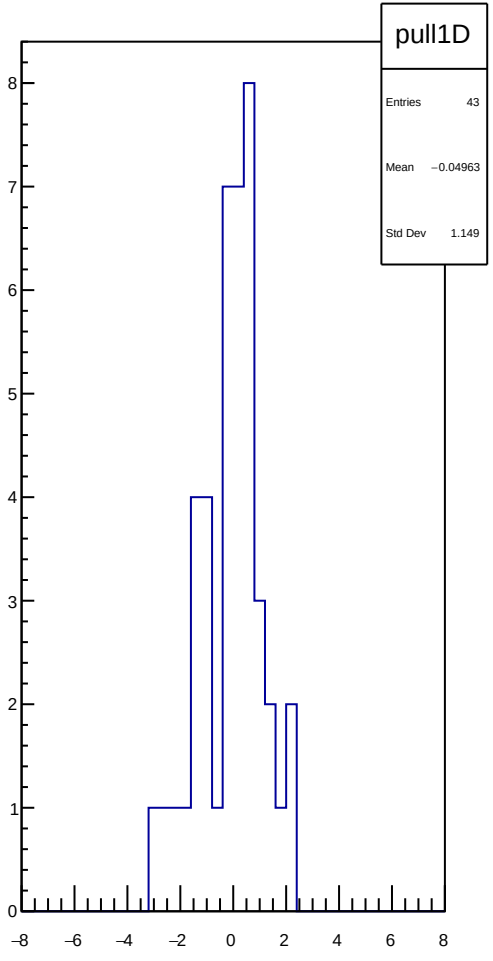

pull1D
Entries 43
Mean −0.04963
Std Dev 1.149

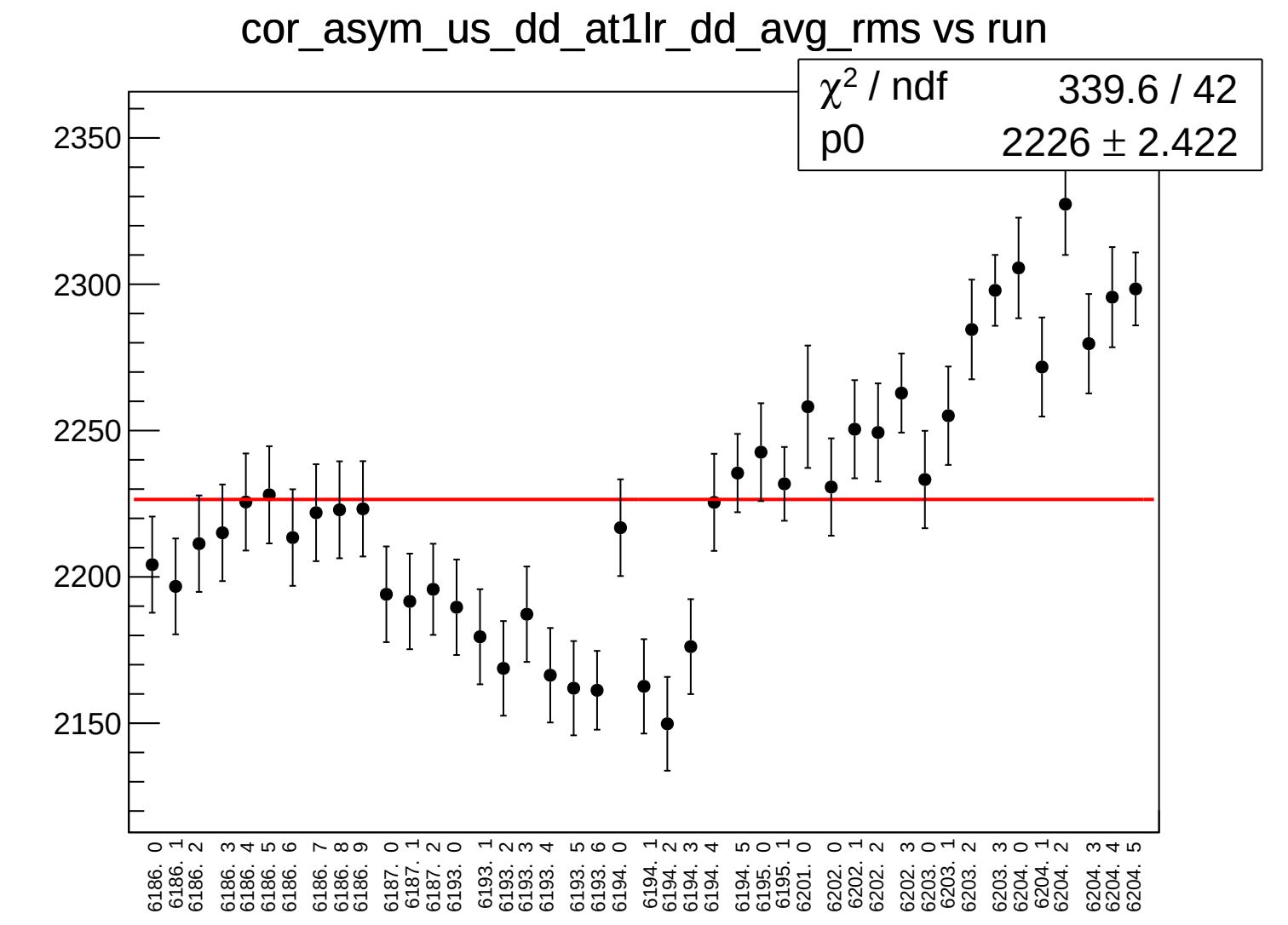

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 339.6 / 42
p0 2226 ± 2.422
2350
2300
2250
2200
2150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

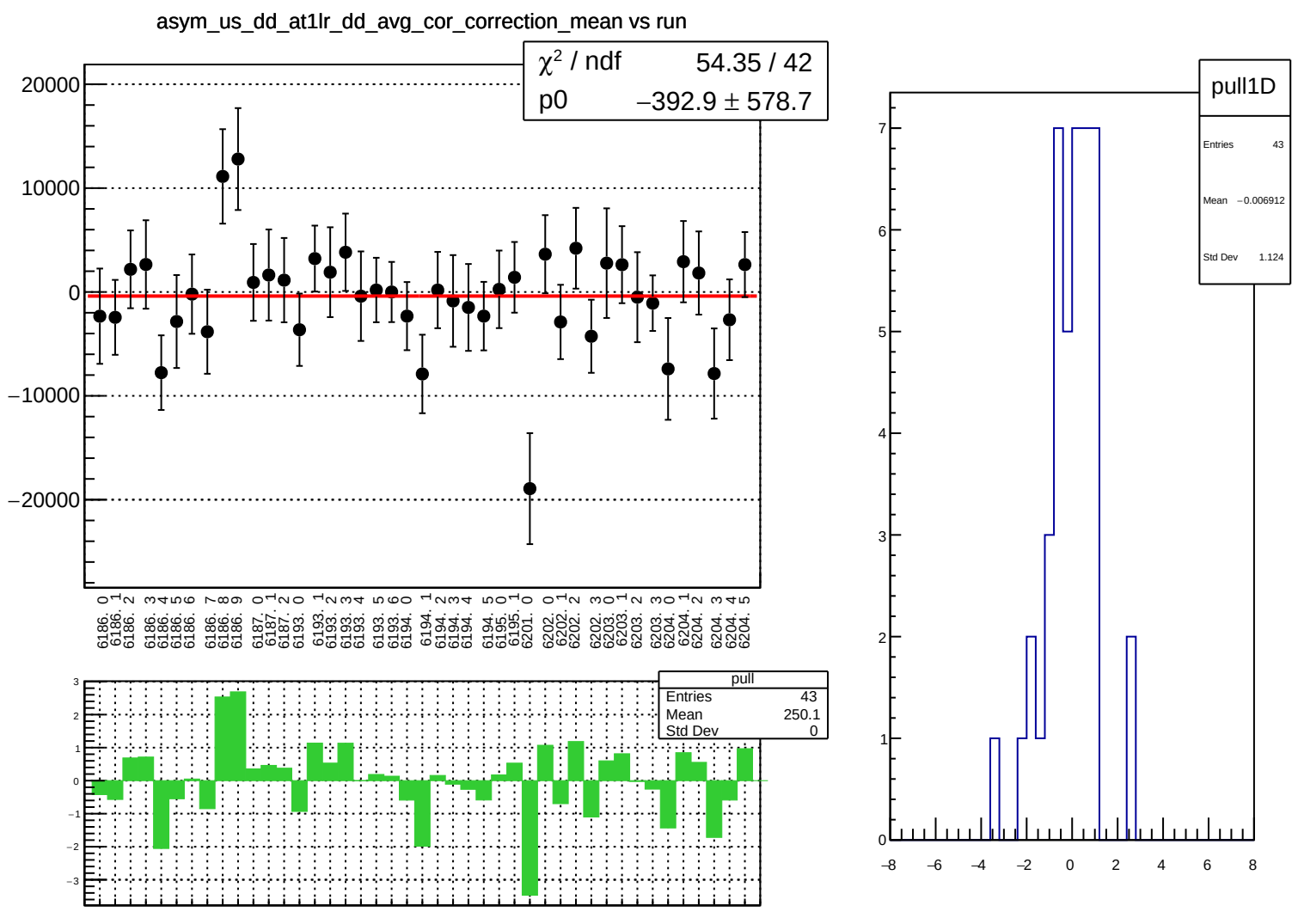

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 54.39 / 42
p0 −393.9 ± 578.7
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 252.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.006856
Std Dev 1.125
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

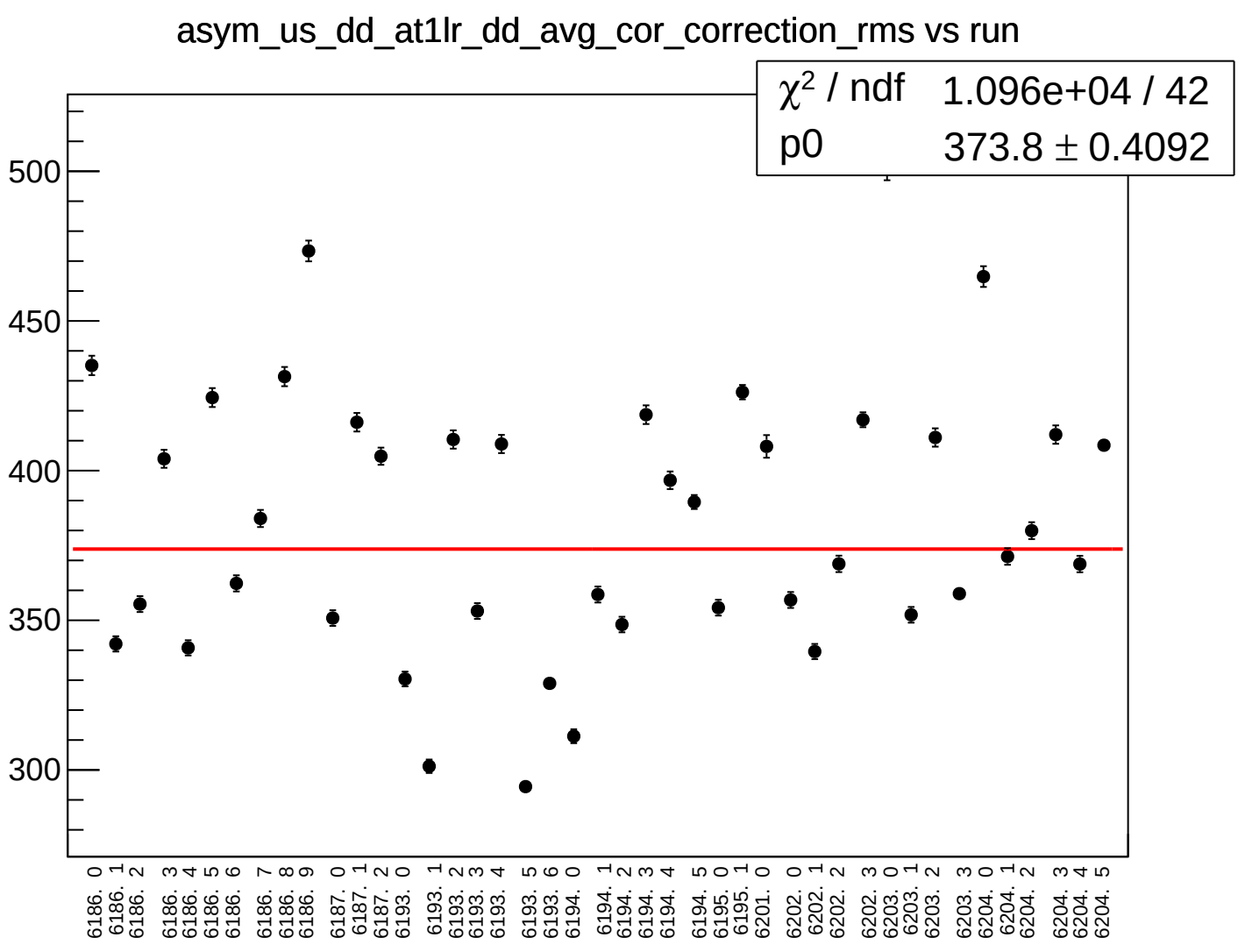

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.098e+04 / 42
p0 373.8 ± 0.4092
500
450
400
350
300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

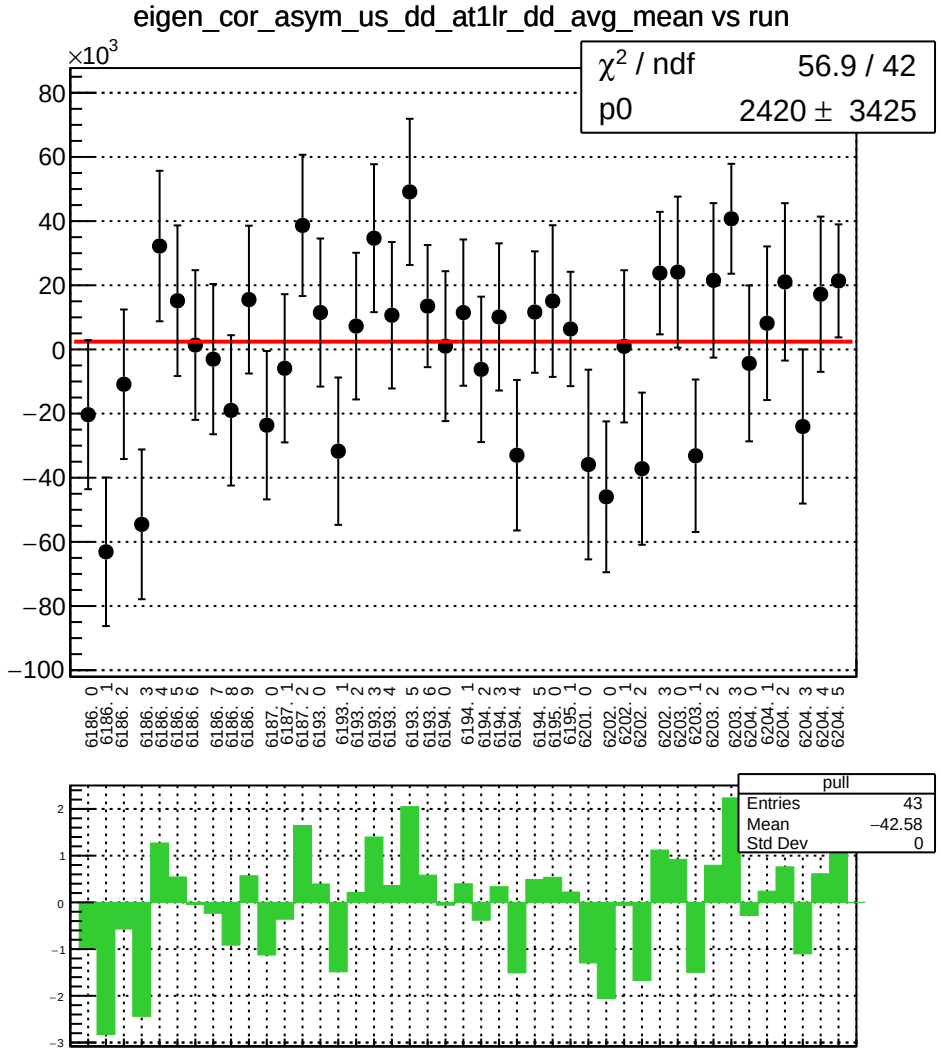

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 56.9 / 42
p0 2420 ± 3425
pull
Entries 43
Mean −42.58
Std Dev 0

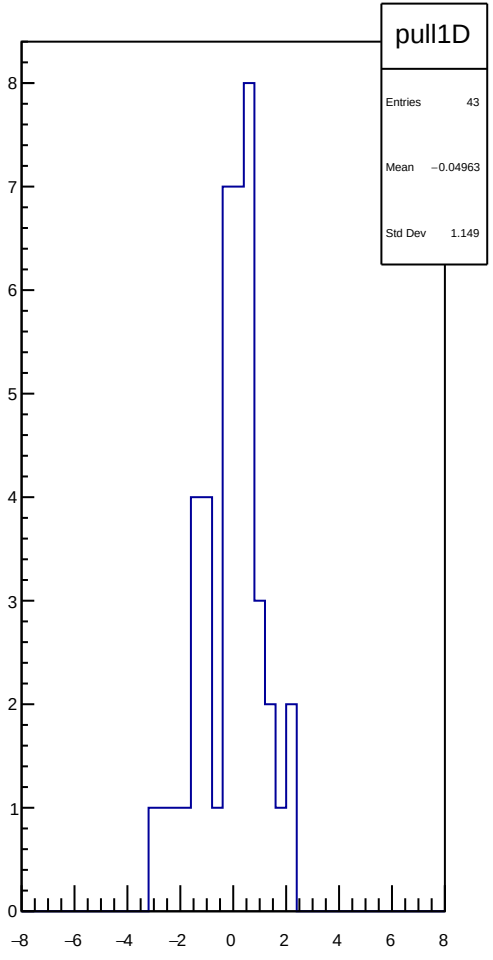

pull1D
Entries 43
Mean −0.04963
Std Dev 1.149

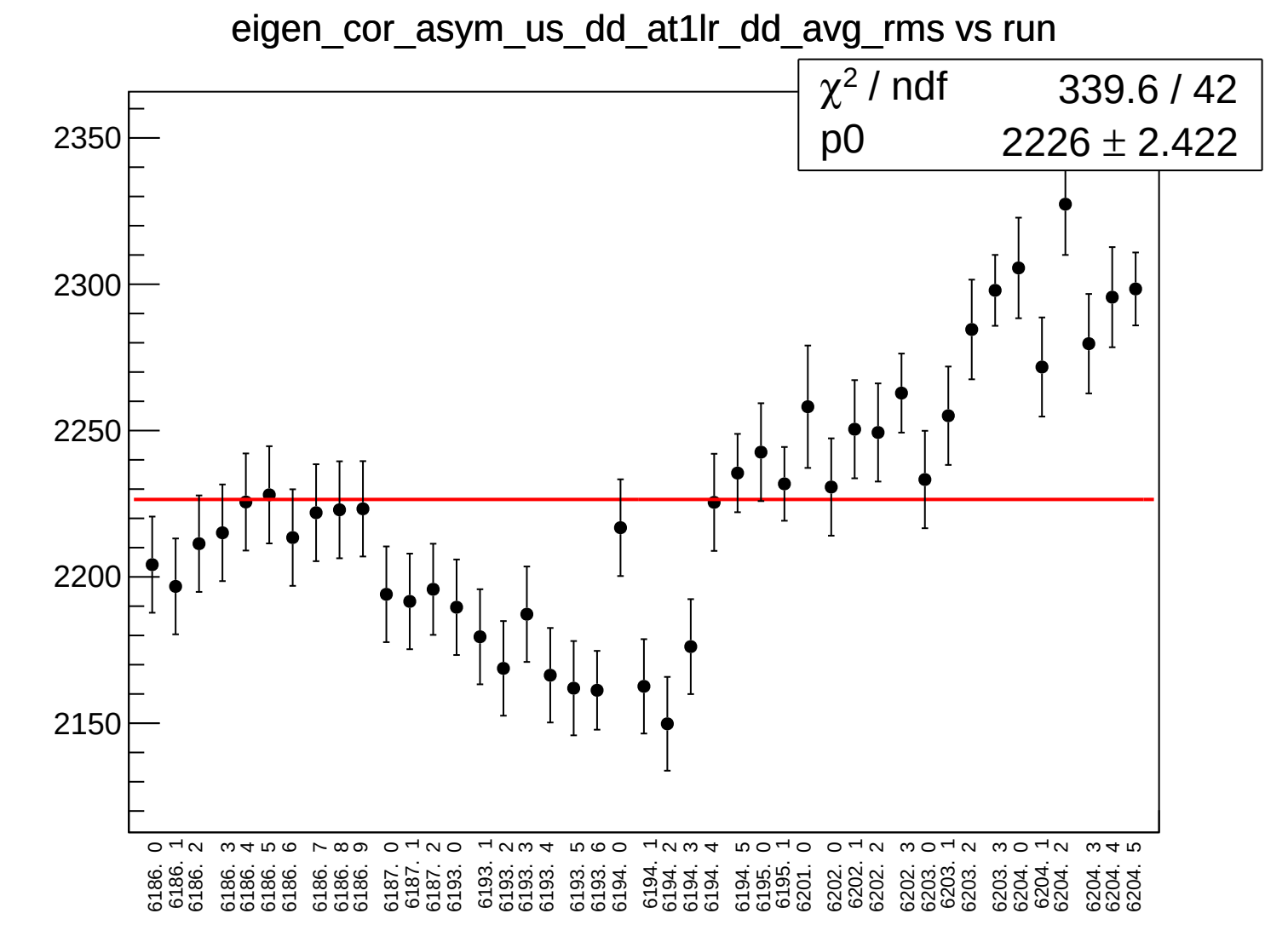

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 339.6 / 42
p0 2226 ± 2.422
2350
2300
2250
2200
2150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

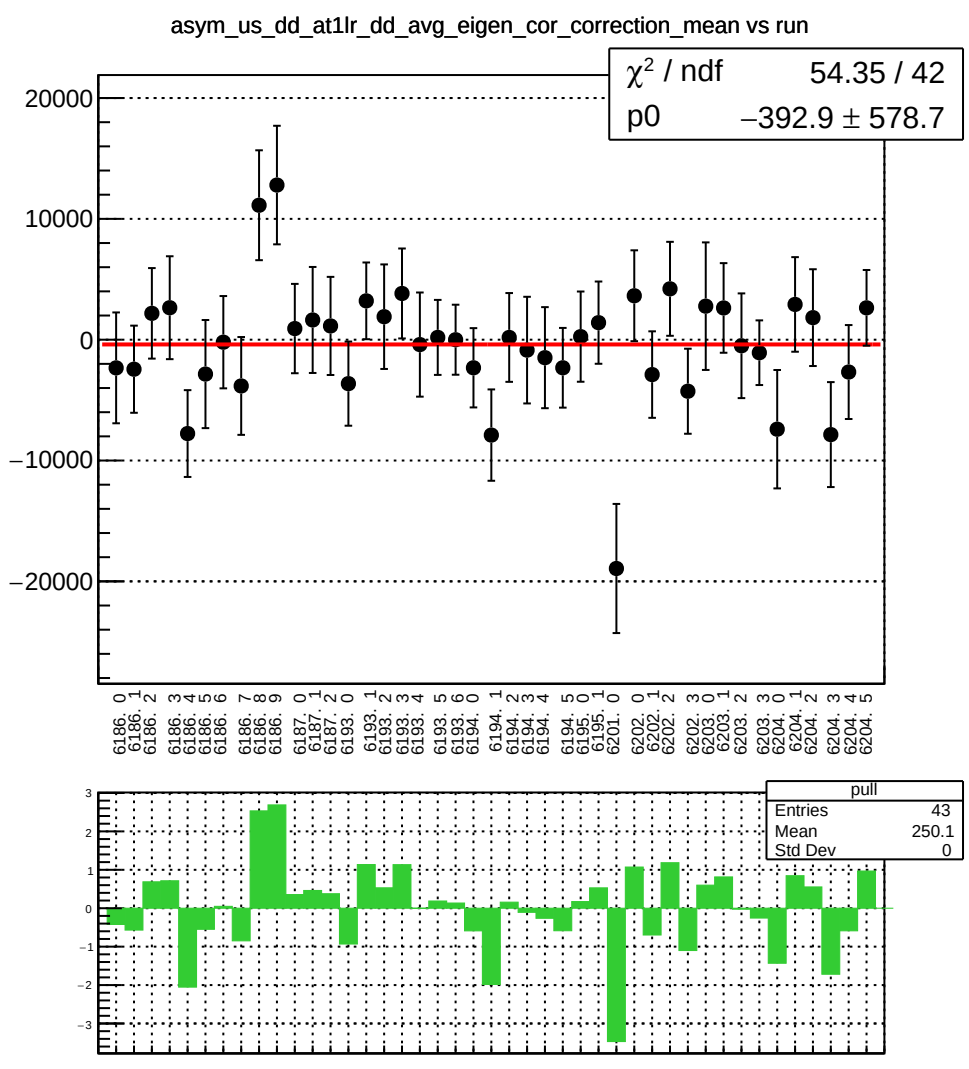

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 54.35 / 42
p0 −392.9 ± 578.7
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 250.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.006912
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

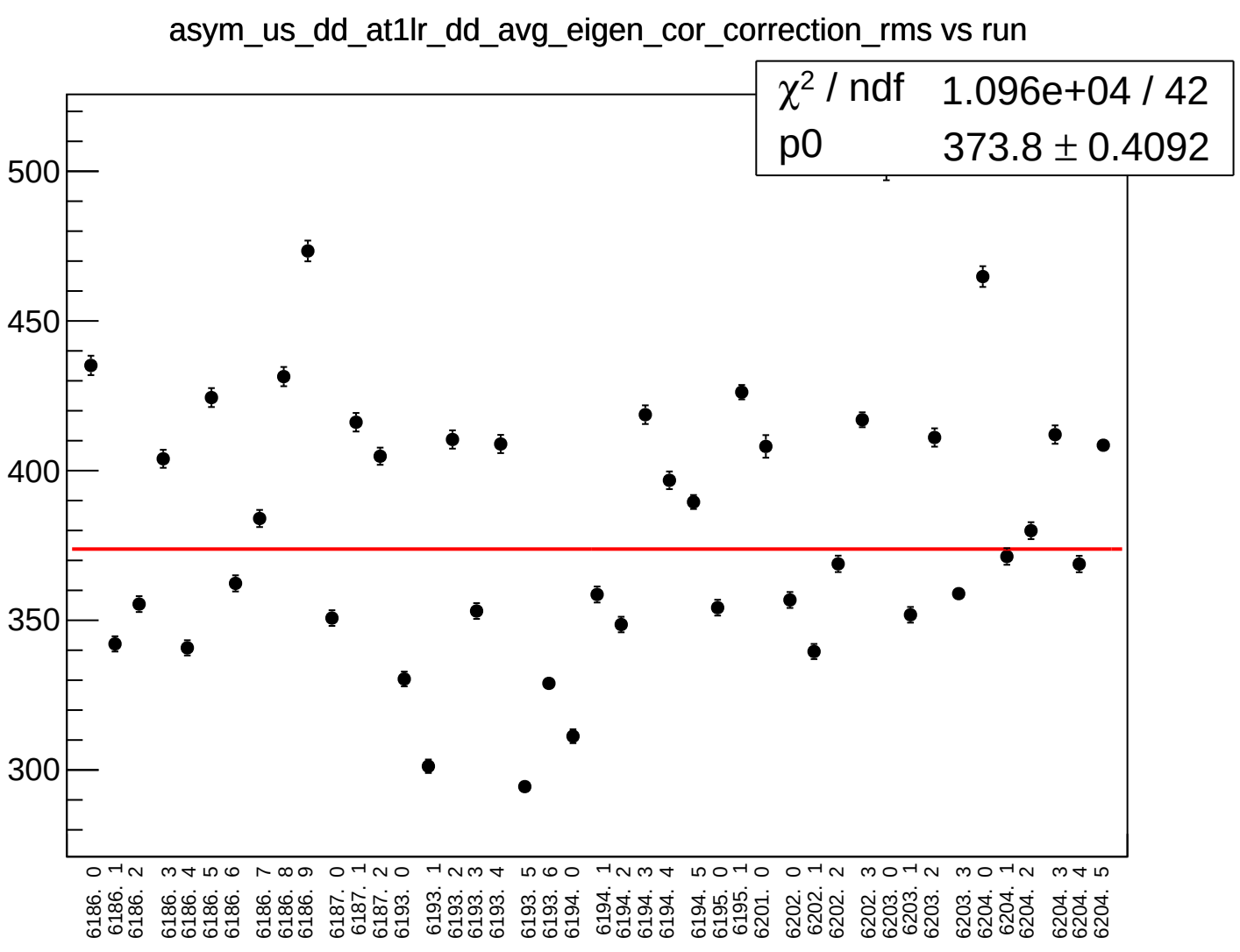

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.096e+04 / 42
p0 373.8 ± 0.4092
500
450
400
350
300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

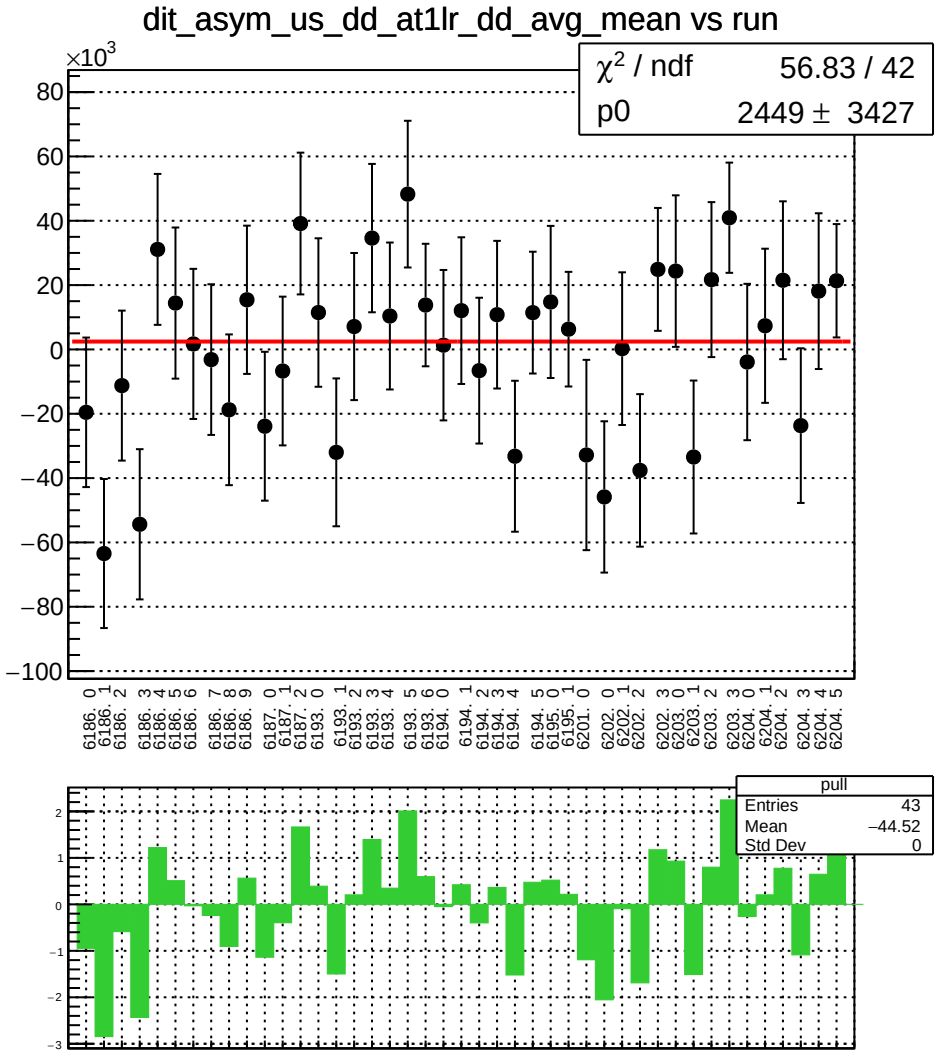

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 56.9 / 42
p0 2420 ± 3425
pull
Entries 43
Mean −42.58
Std Dev 0

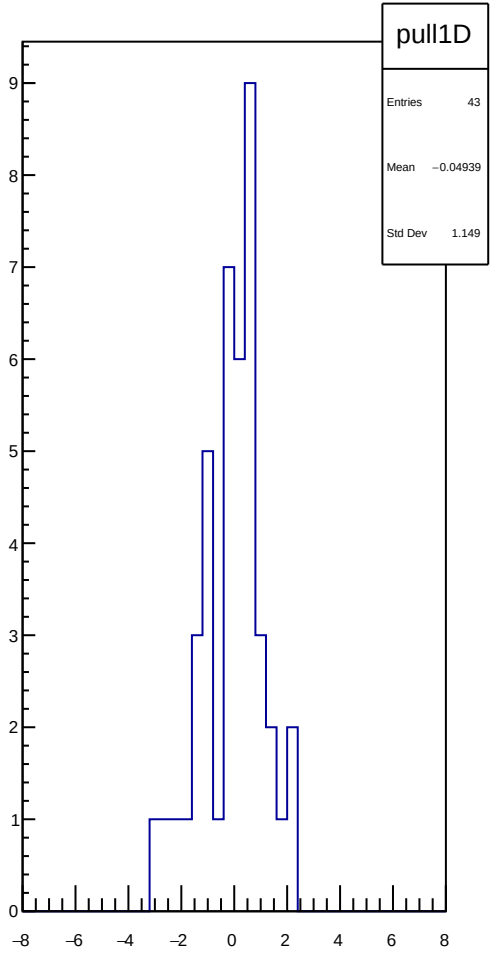

pull1D
Entries 43
Mean −0.04963
Std Dev 1.149

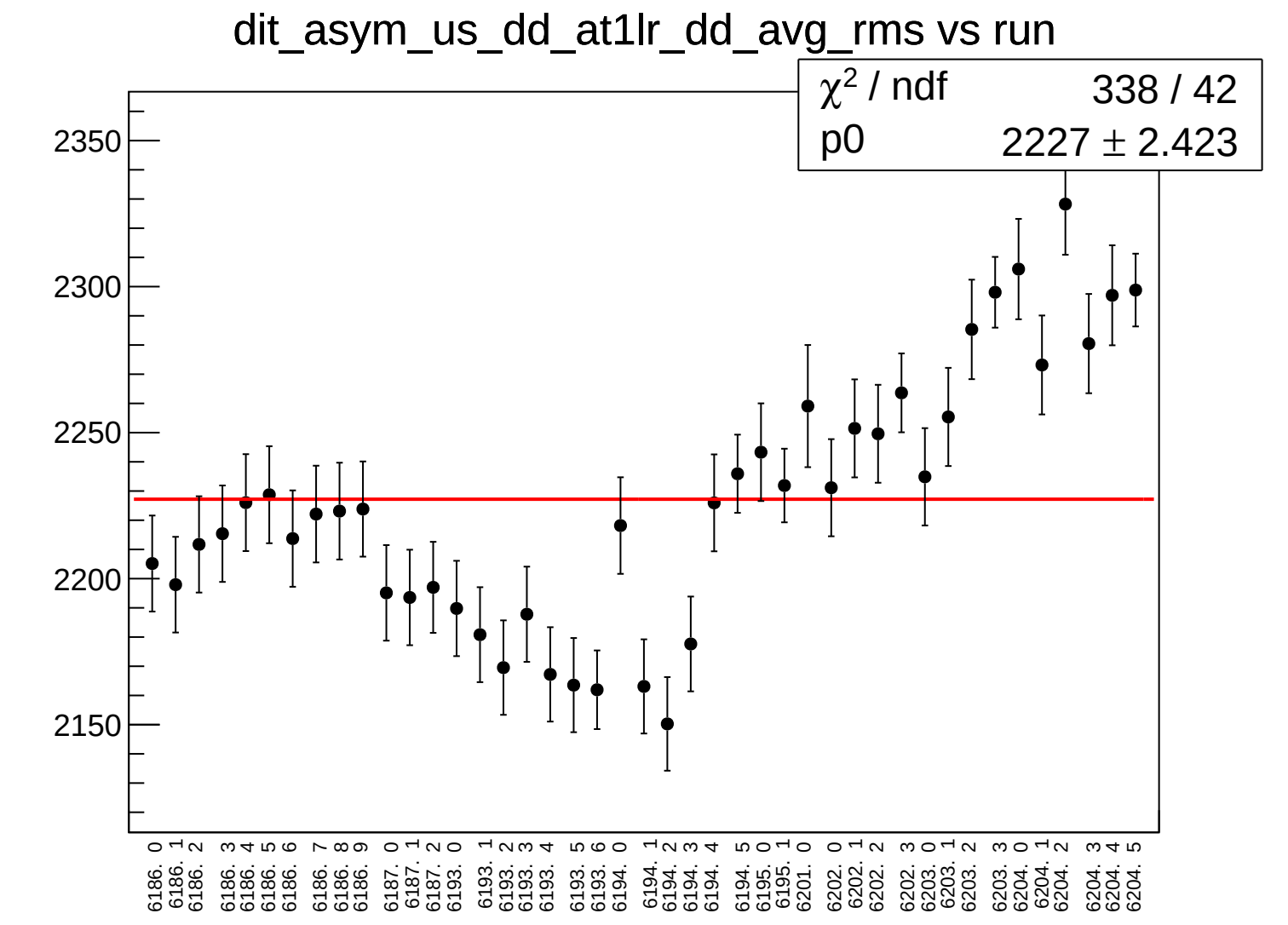

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 339.6 / 42
p0 2226 ± 2.422
2350
2300
2250
2200
2150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

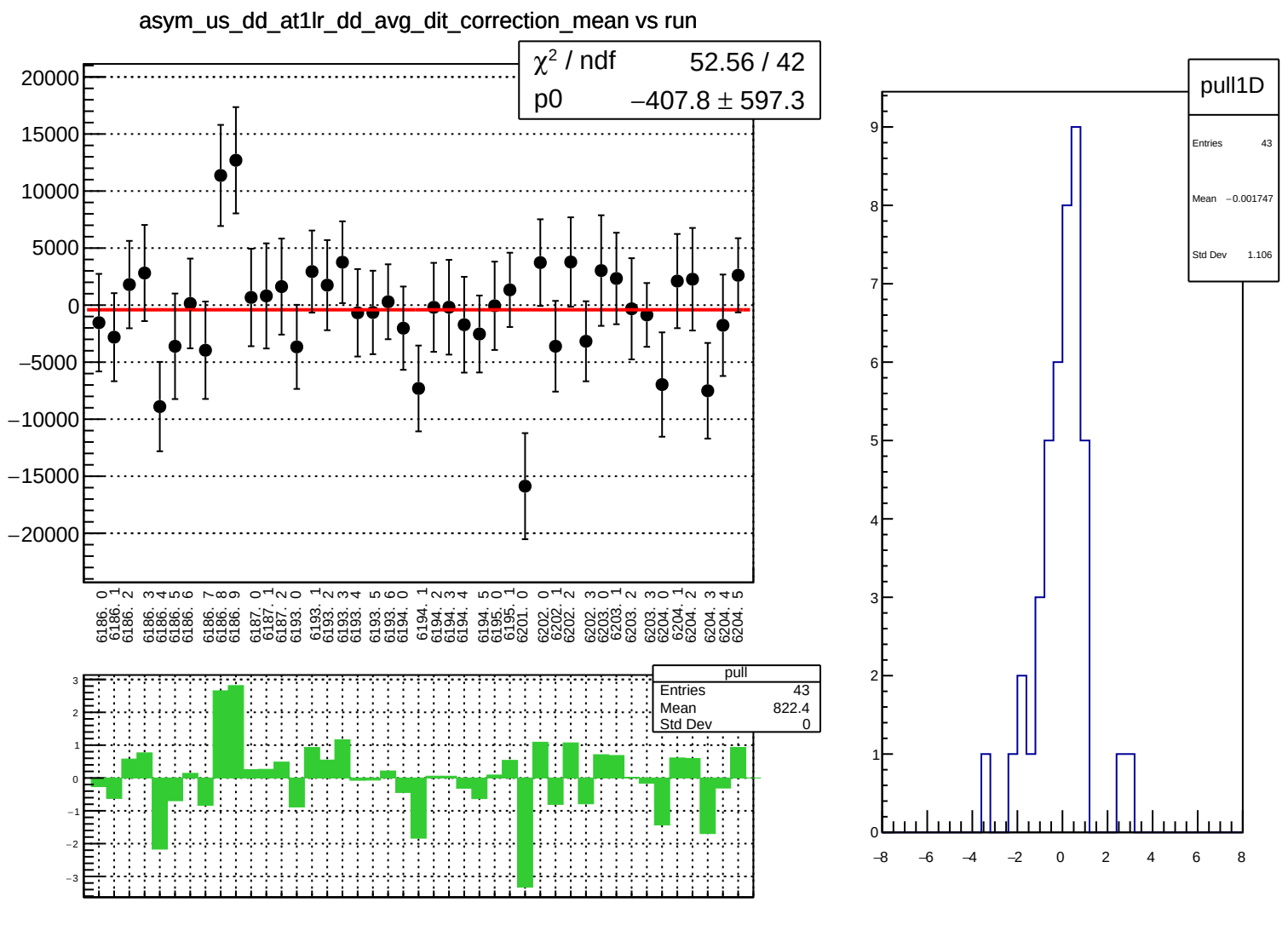

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 54.35 / 42
p0 −392.9 ± 578.7
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 250.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.006912
Std Dev 1.124
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

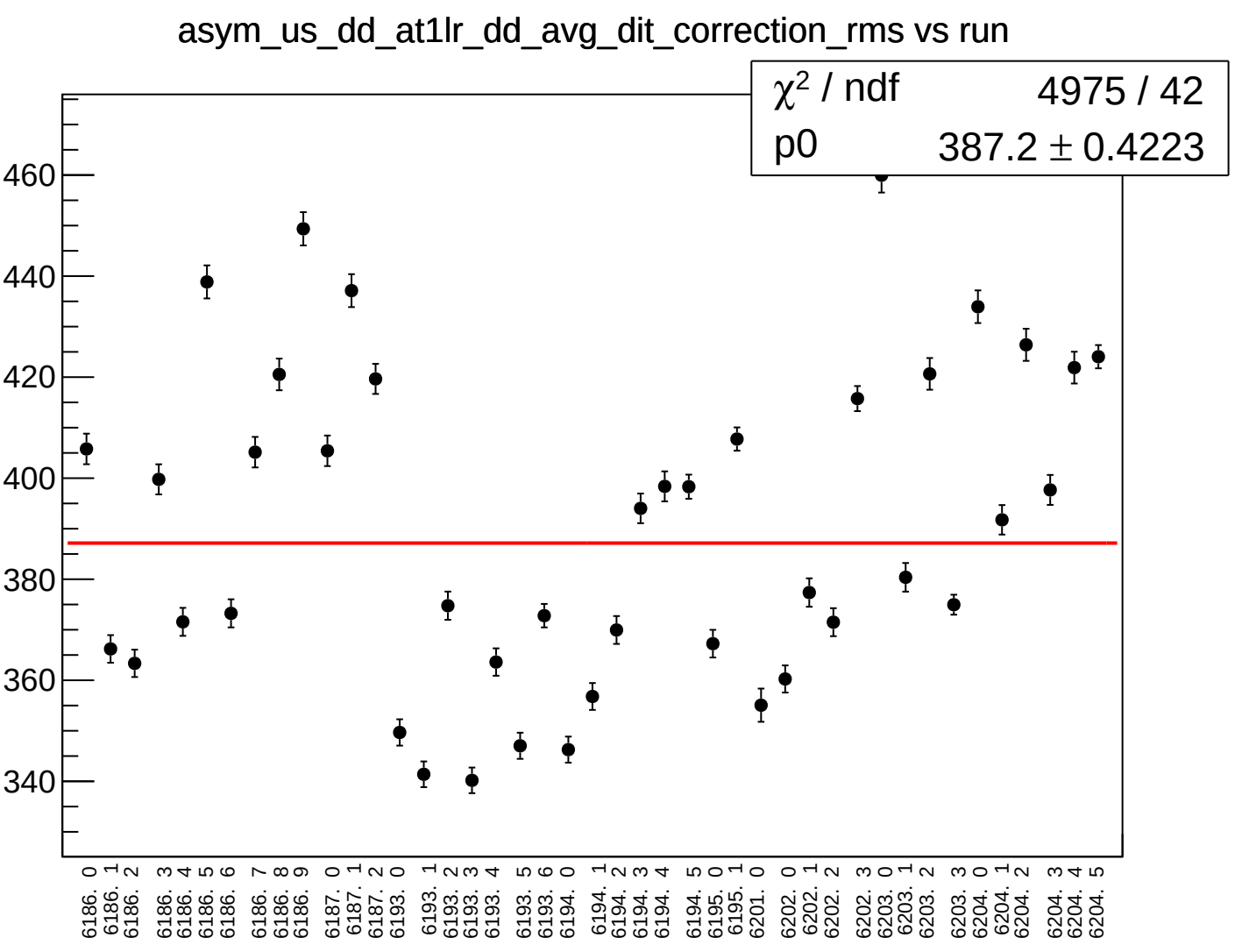

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.096e+04 / 42
p0 373.8 ± 0.4092
500
450
400
350
300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

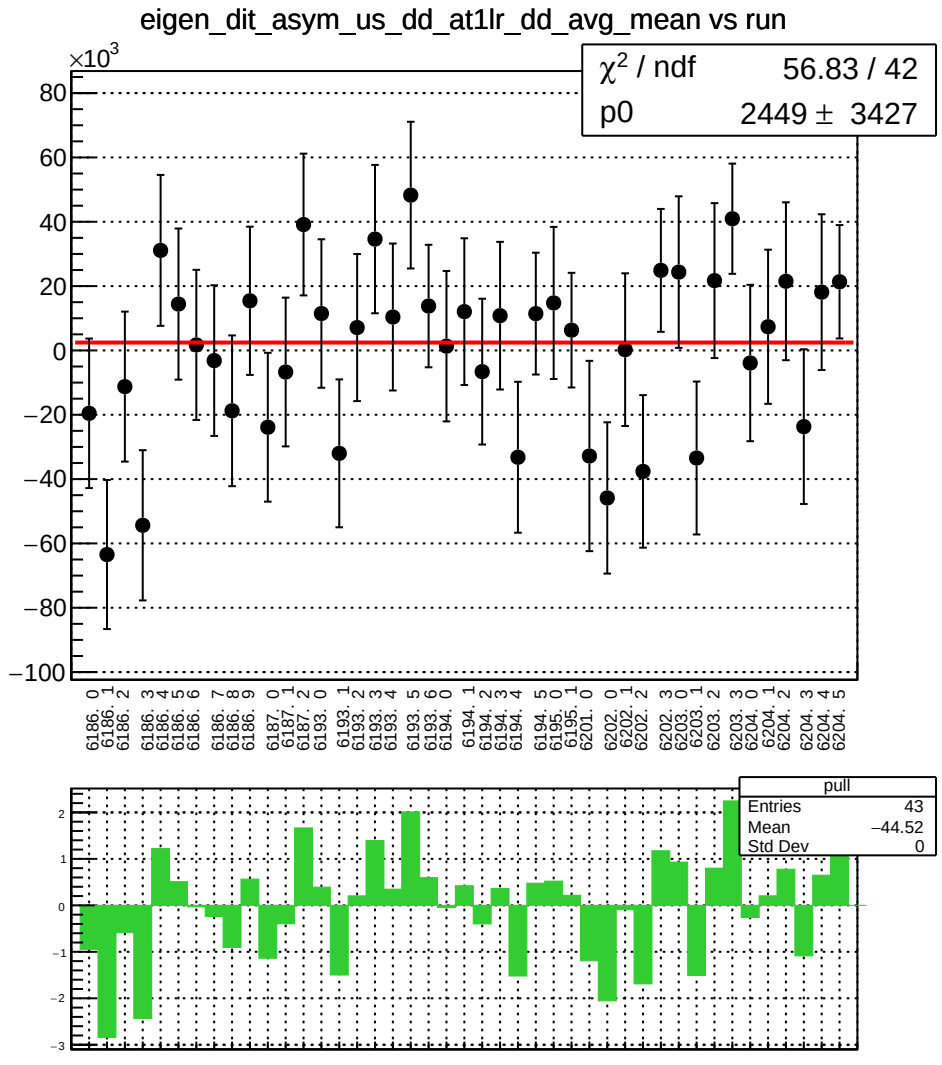

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 56.83 / 42
p0 2449 ± 3427
pull
Entries 43
Mean −44.52
Std Dev 0

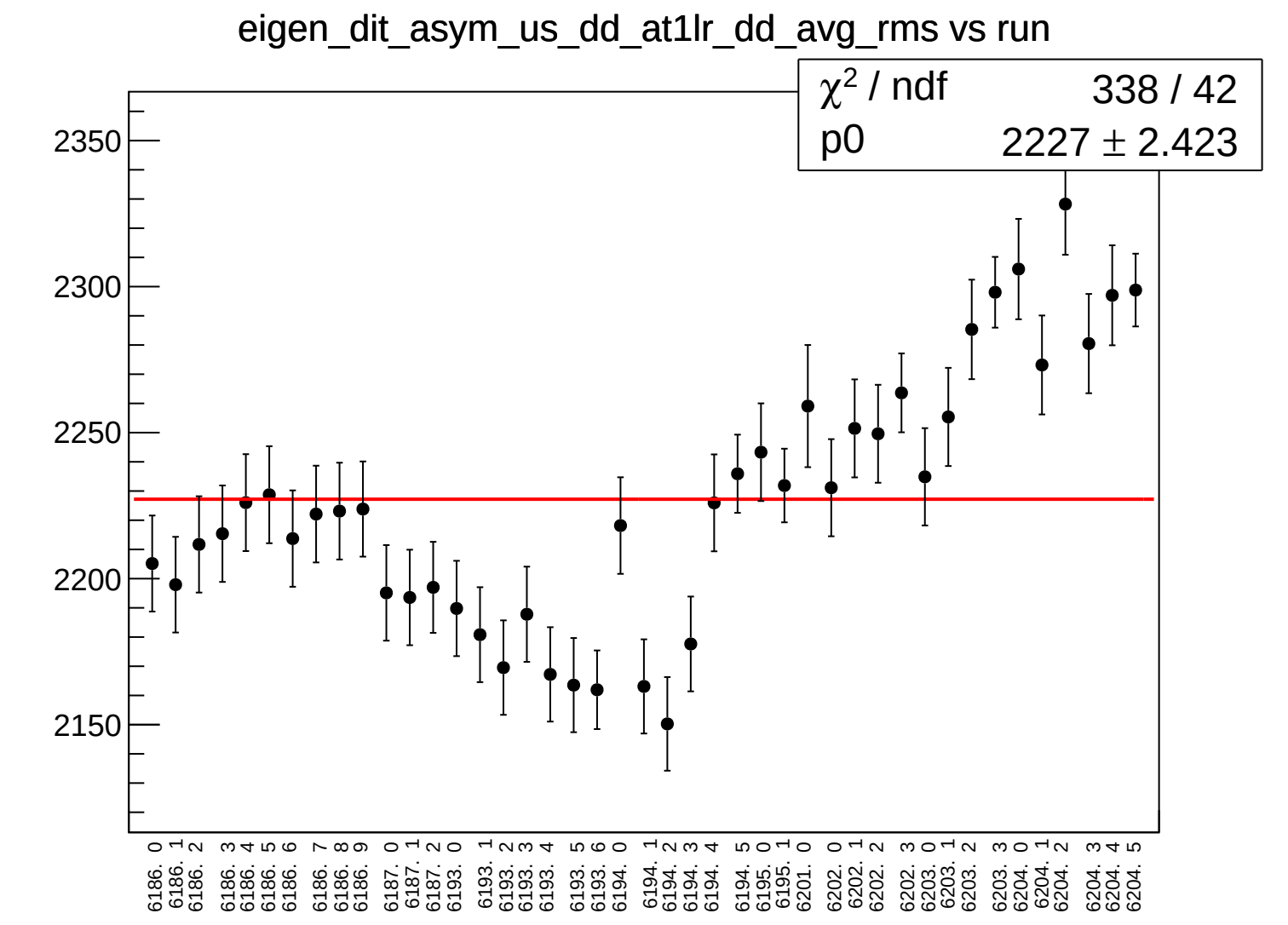

pull1D
Entries 43
Mean −0.04939
Std Dev 1.149


dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 338 / 42
p0 2227 ± 2.423
2350
2300
2250
2200
2150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 52.56 / 42
p0 −407.8 ± 597.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 822.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.001747
Std Dev 1.106
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 4975 / 42
p0 387.2 ± 0.4223
460
440
420
400
380
360
340
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 56.83 / 42
p0 2449 ± 3427
pull
Entries 43
Mean −44.52
Std Dev 0
pull1D
Entries 43
Mean −0.04939
Std Dev 1.149


eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 338 / 42
p0 2227 ± 2.423
2350
2300
2250
2200
2150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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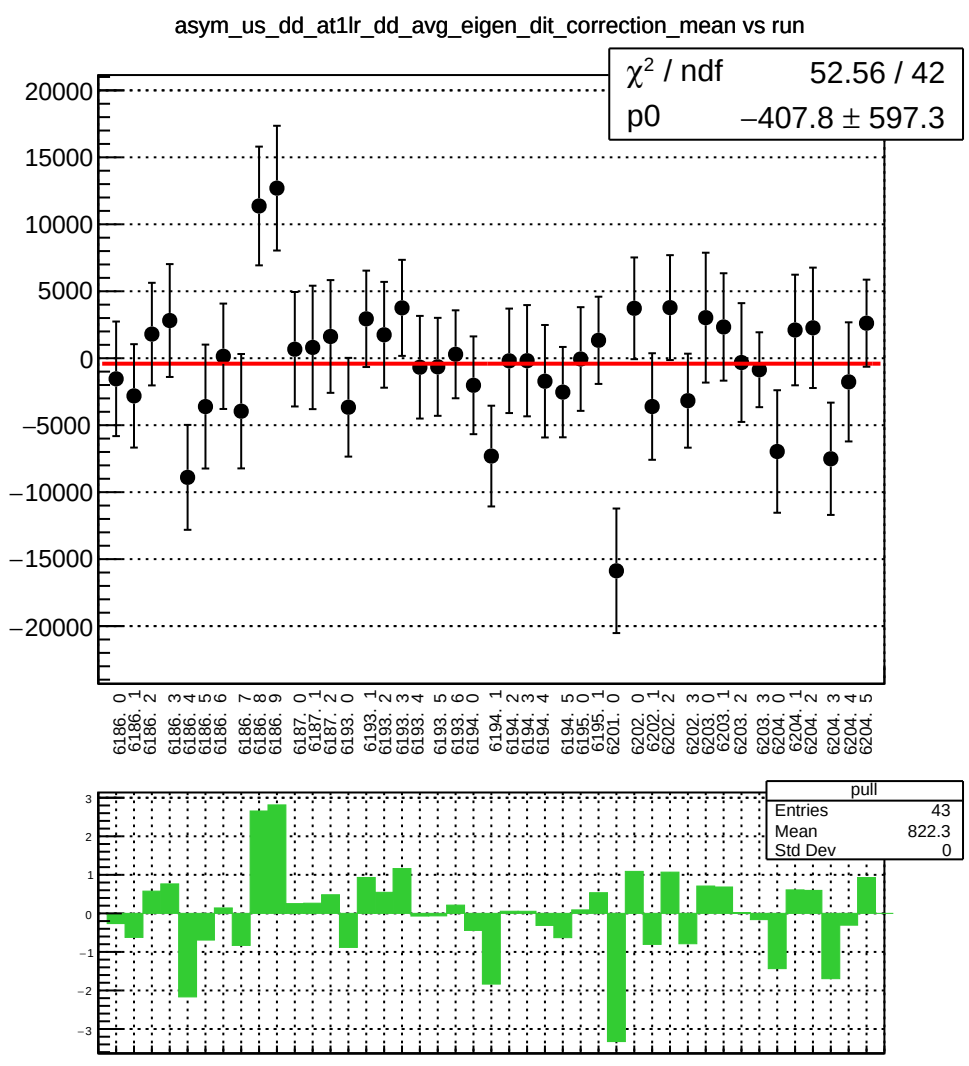
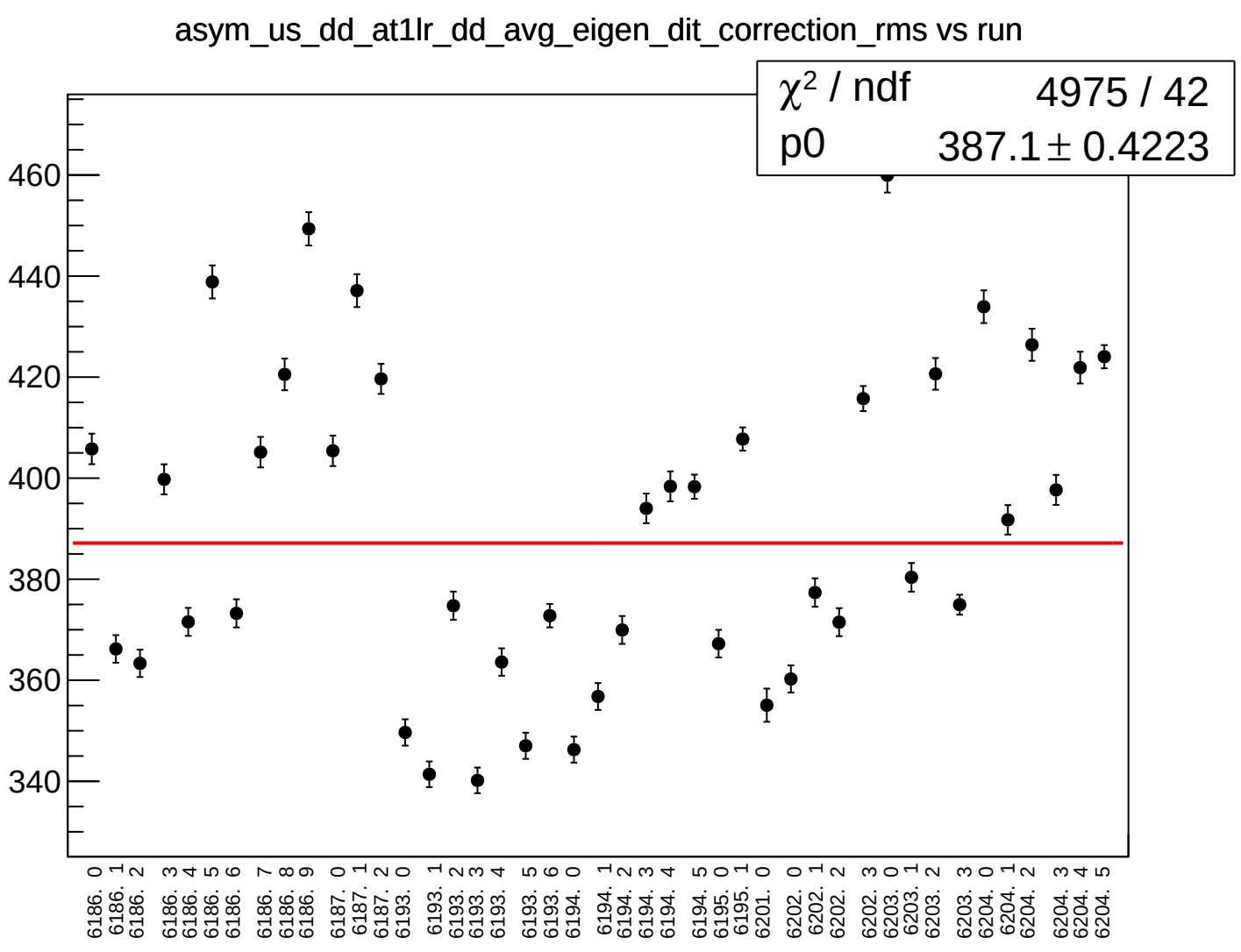
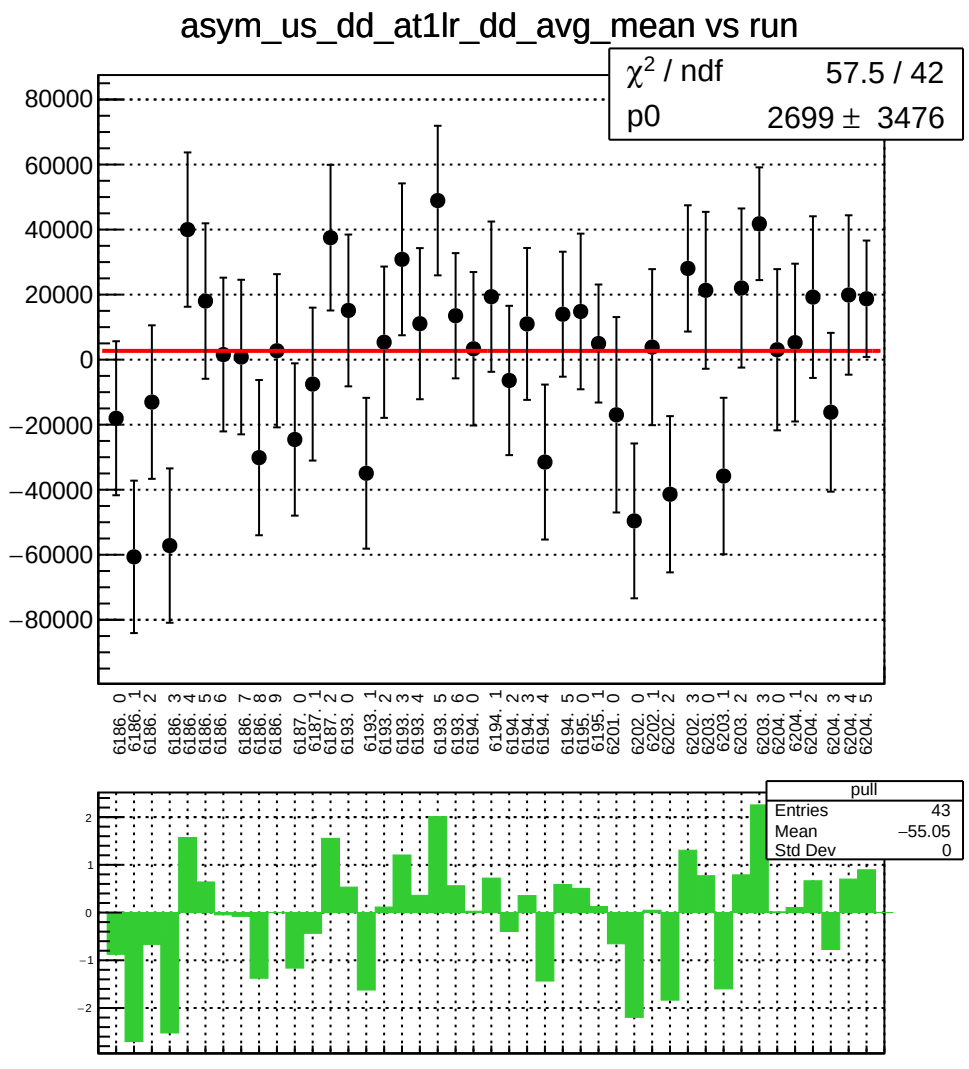
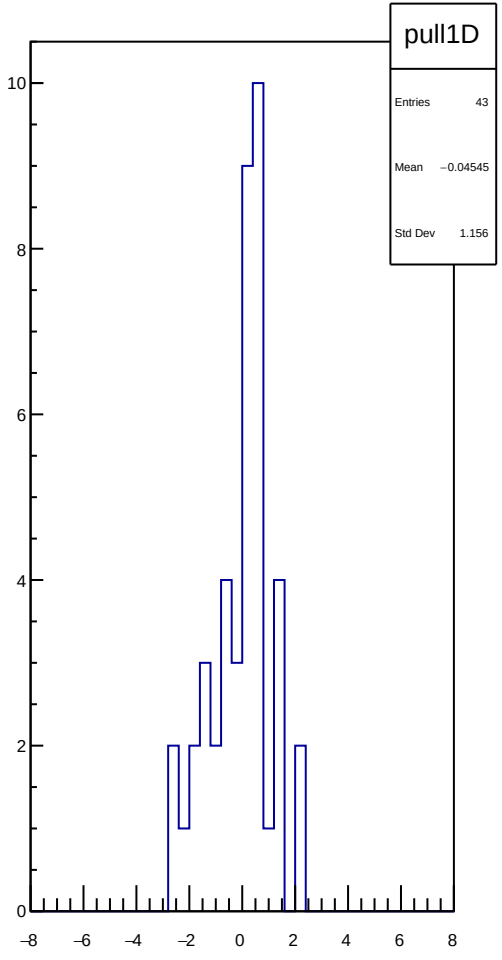
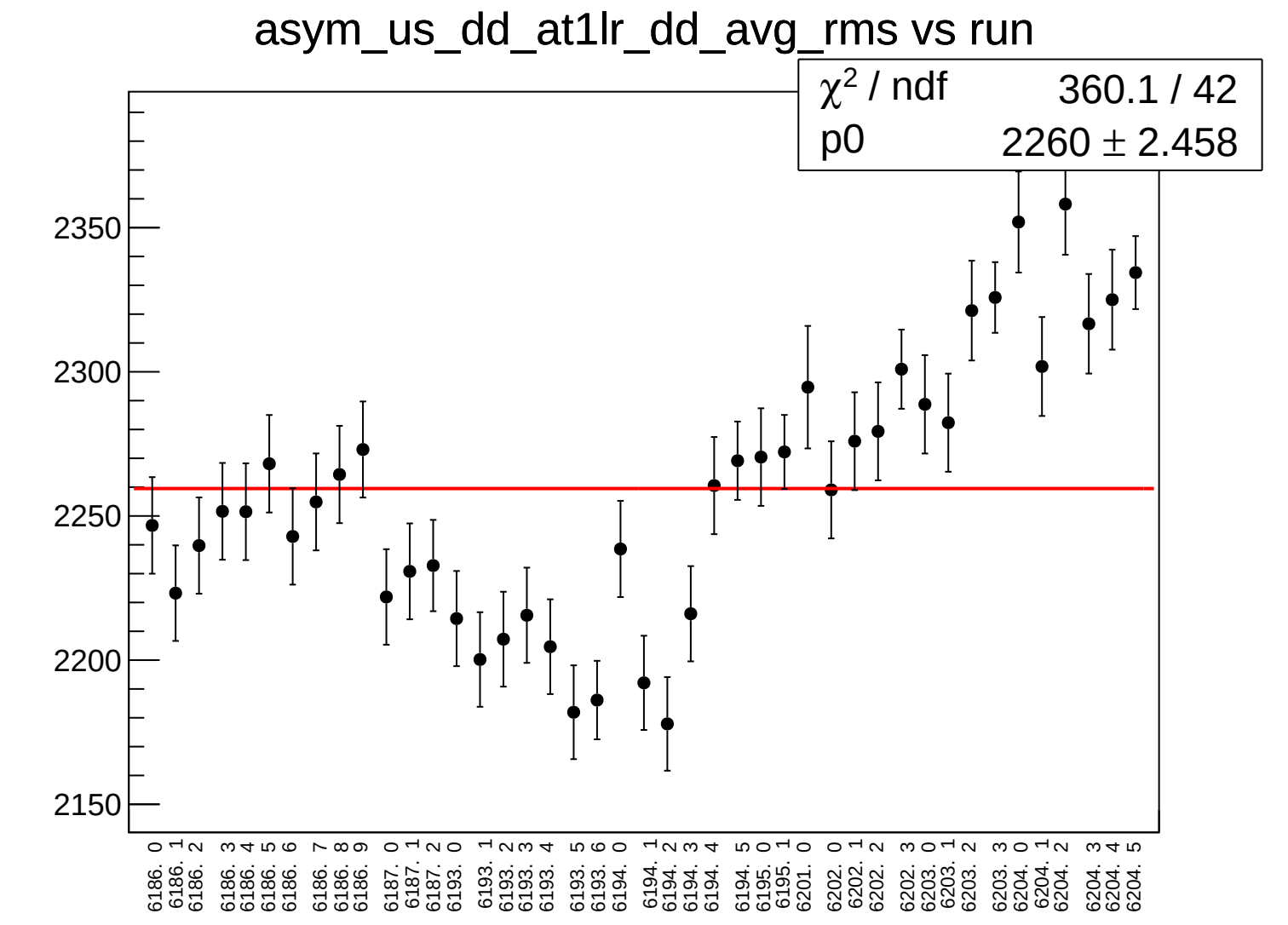
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

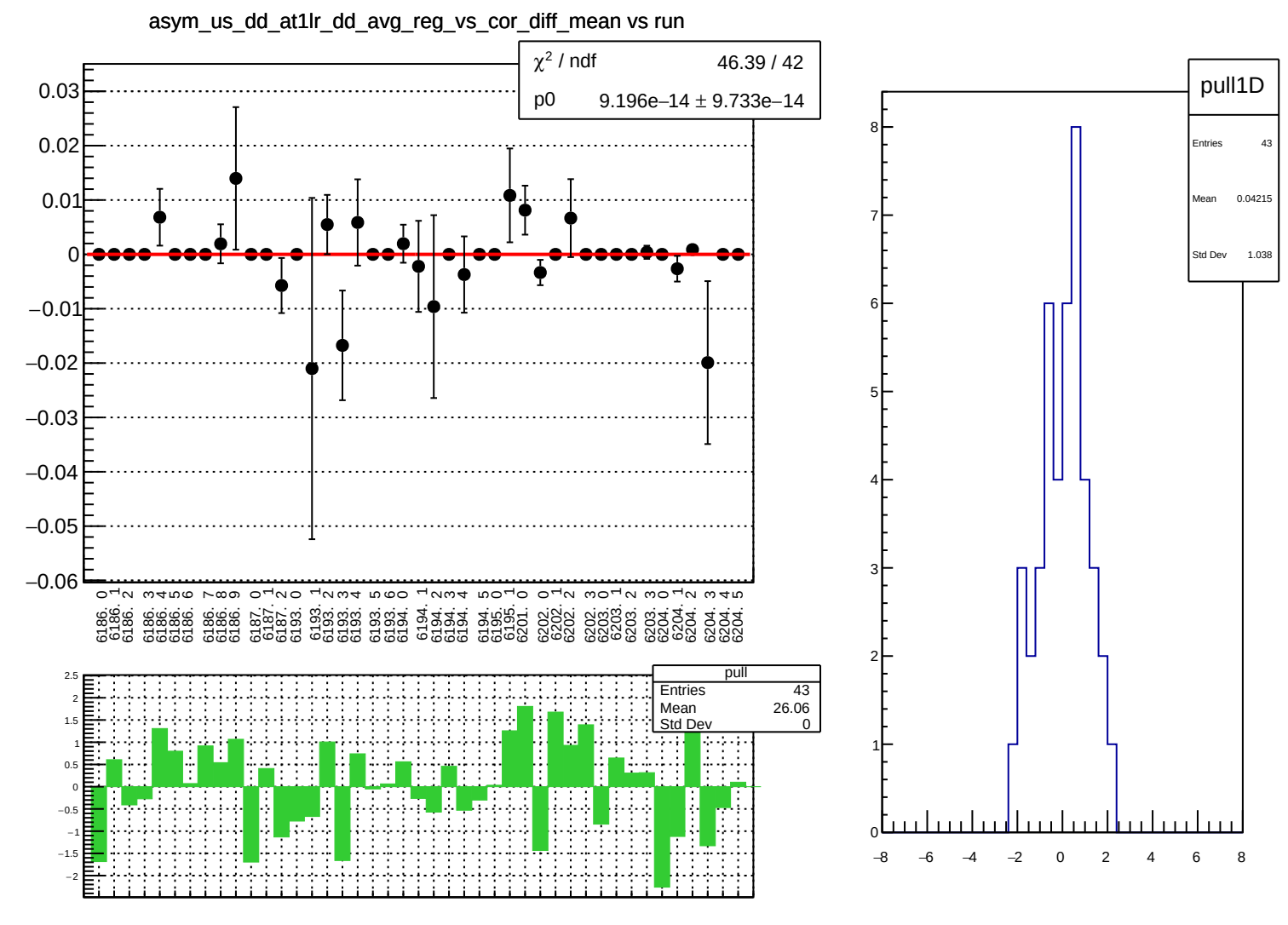

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 52.56 / 42
p0 −407.8 ± 597.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 822.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.001747
Std Dev 1.106
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

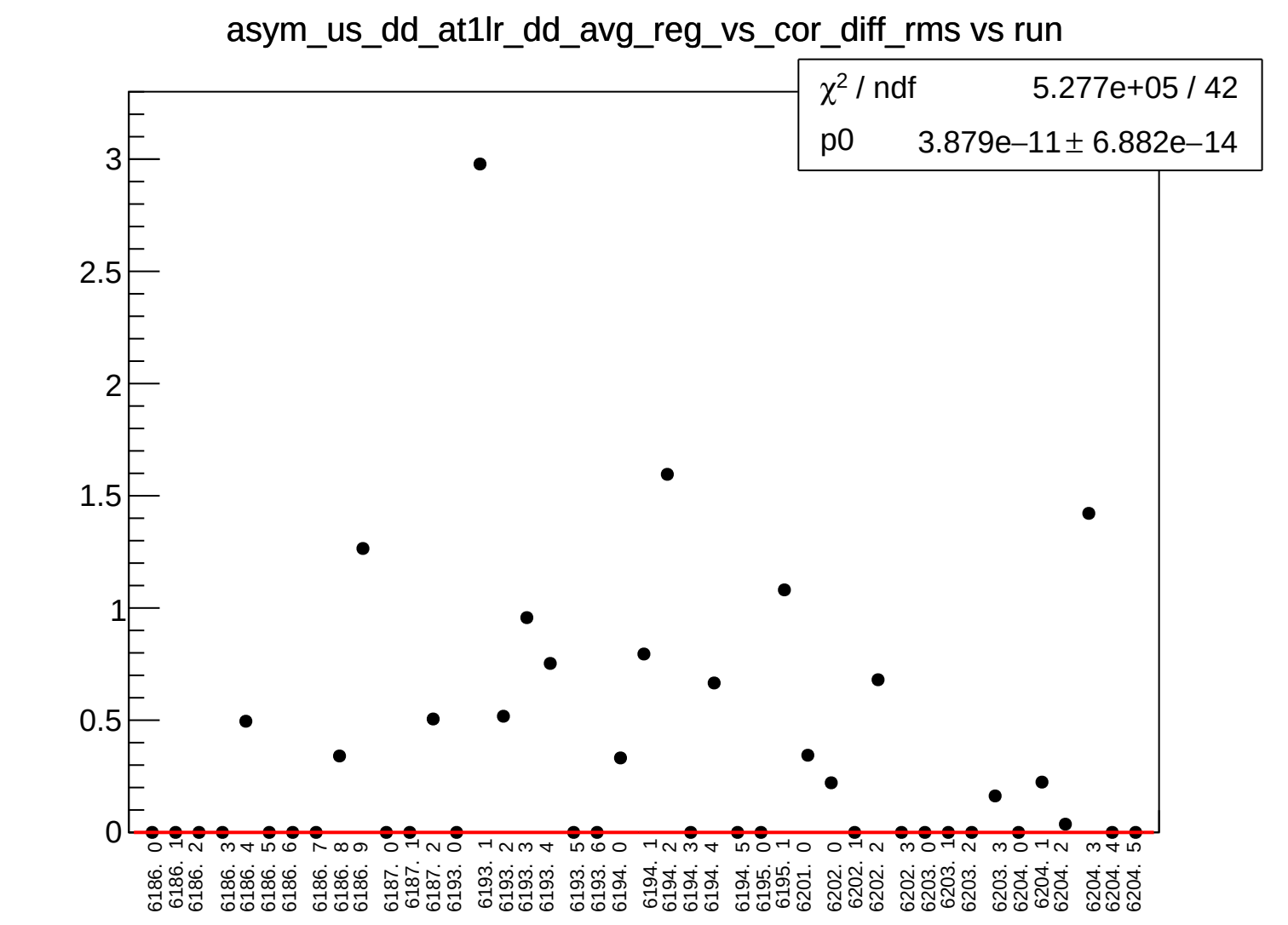

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4975 / 42
p0 387.1 ± 0.4223
460
440
420
400
380
360
340
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

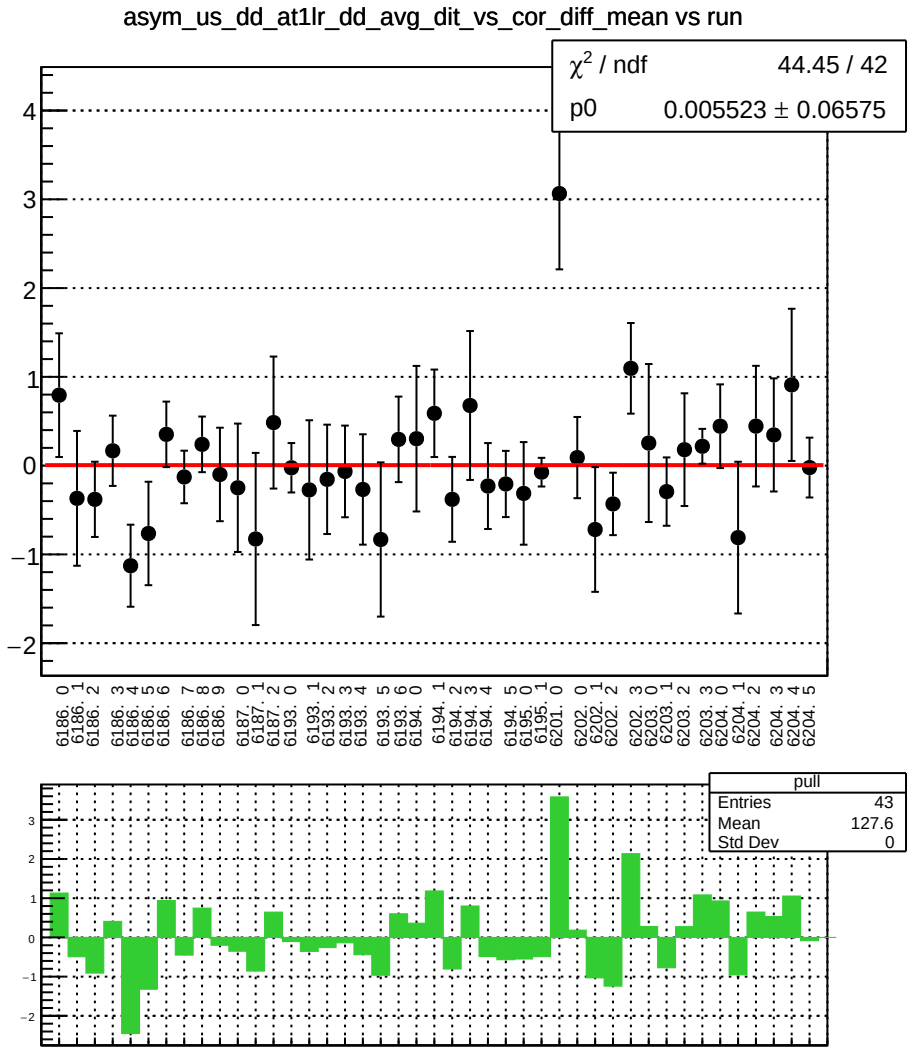

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 57.5 / 42
p0 2699 ± 3476
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −55.05
Std Dev 0
2
1
0
−1
−2

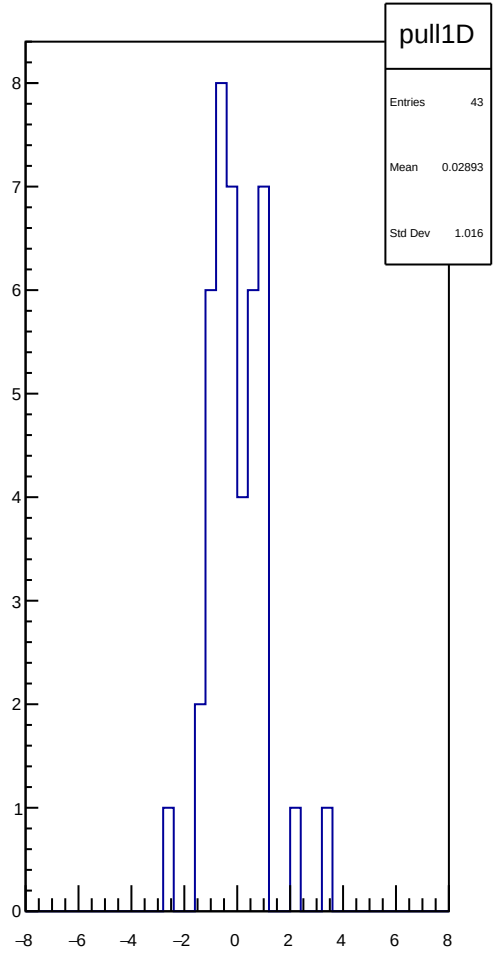

pull1D
Entries 43
Mean −0.04545
Std Dev 1.156
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

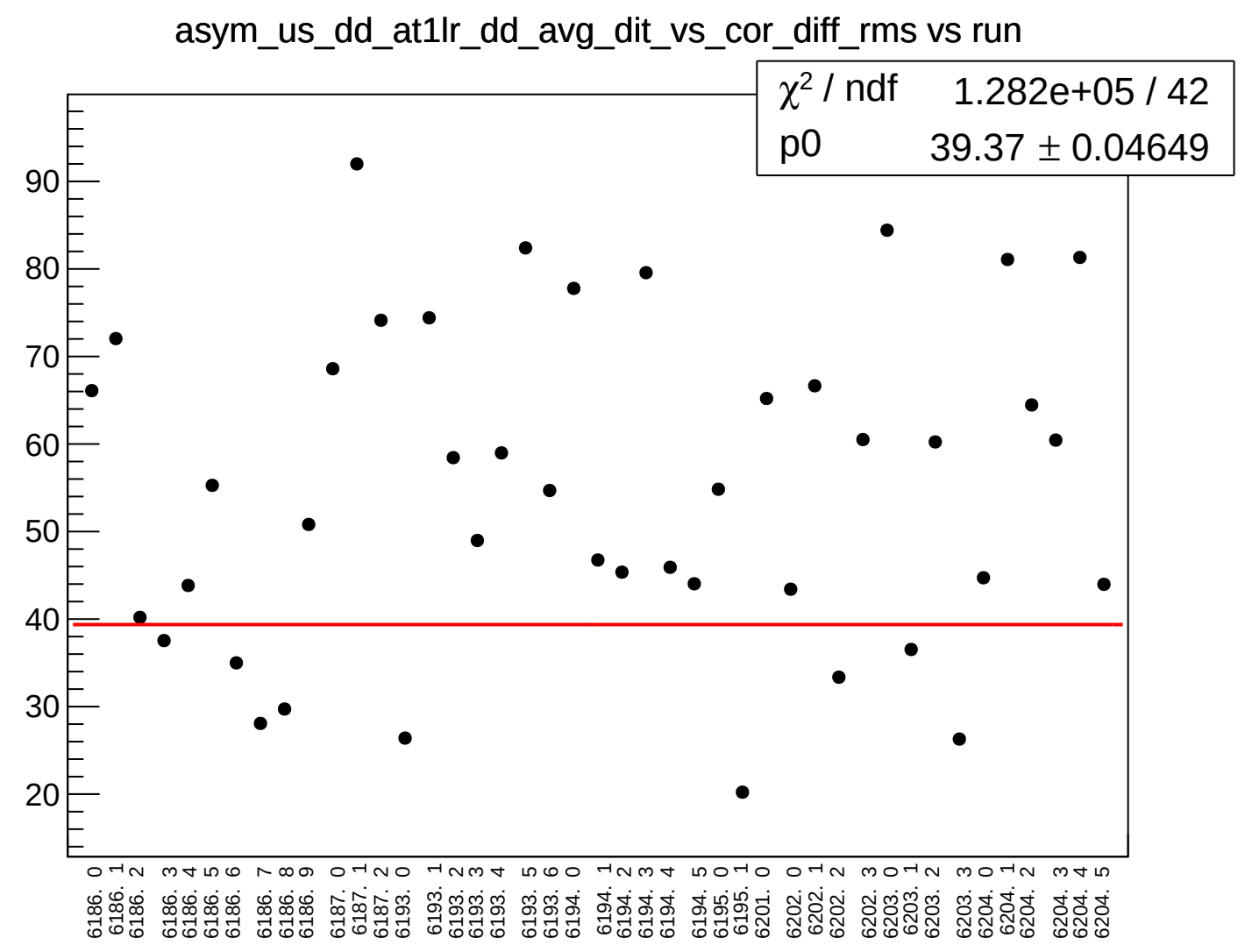

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 360.1 / 42
p0 2260 ± 2.458
2350
2300
2250
2200
2150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

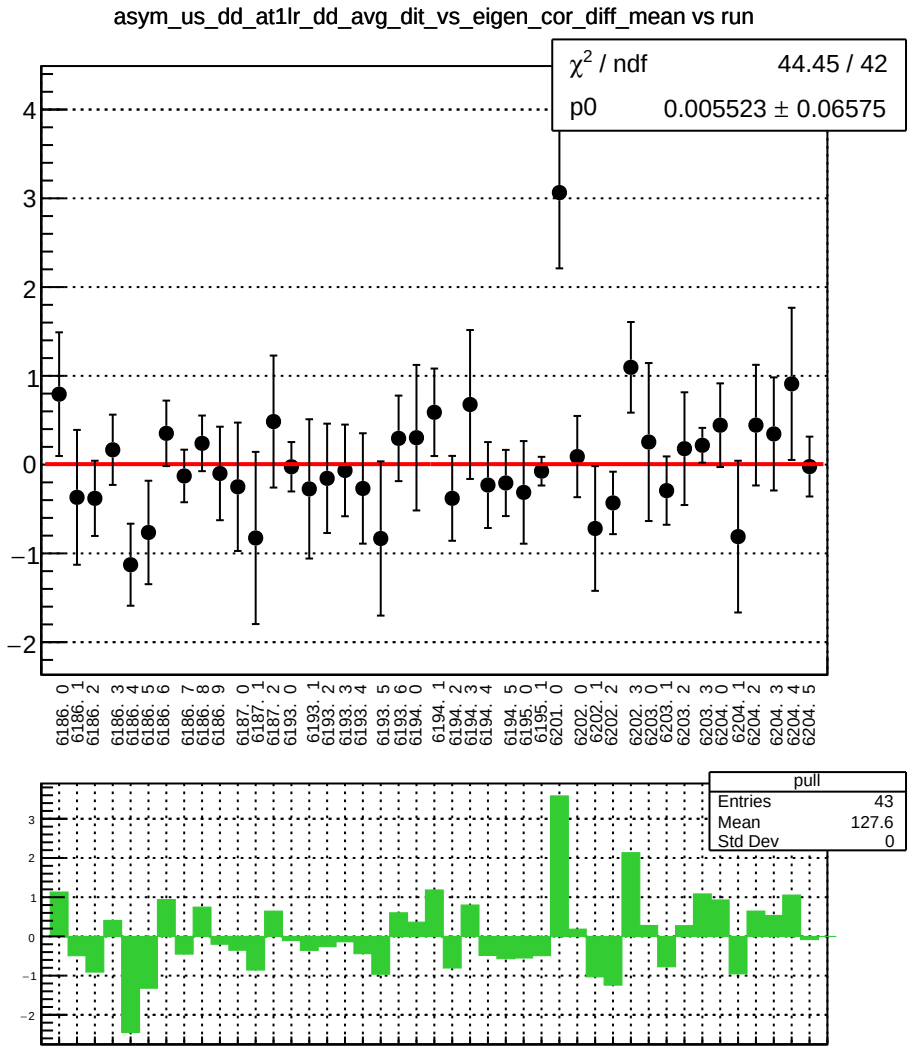

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 46.39 / 42
p0 9.196e−14 ± 9.733e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 26.06
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.04215
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

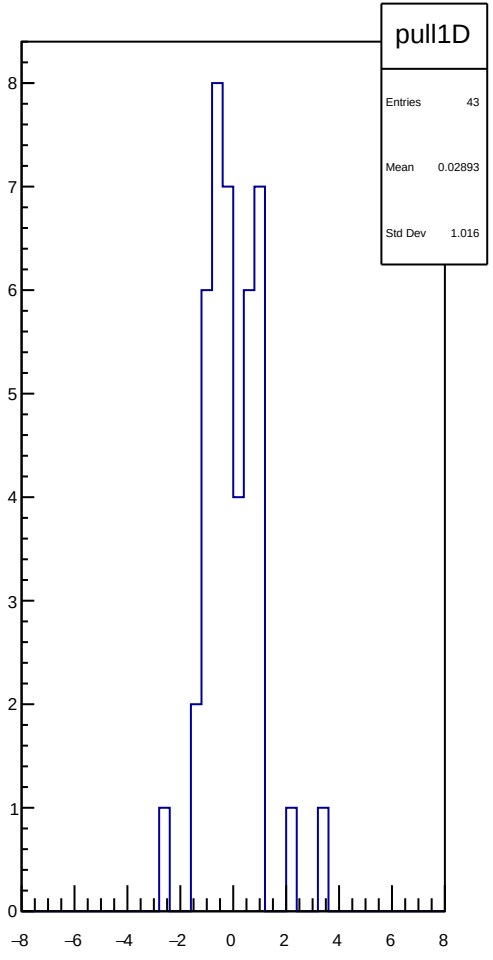

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.277e+05 / 42
p0 3.879e−11 ± 6.882e−14
3
2.5
2
1.5
1
0.5
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

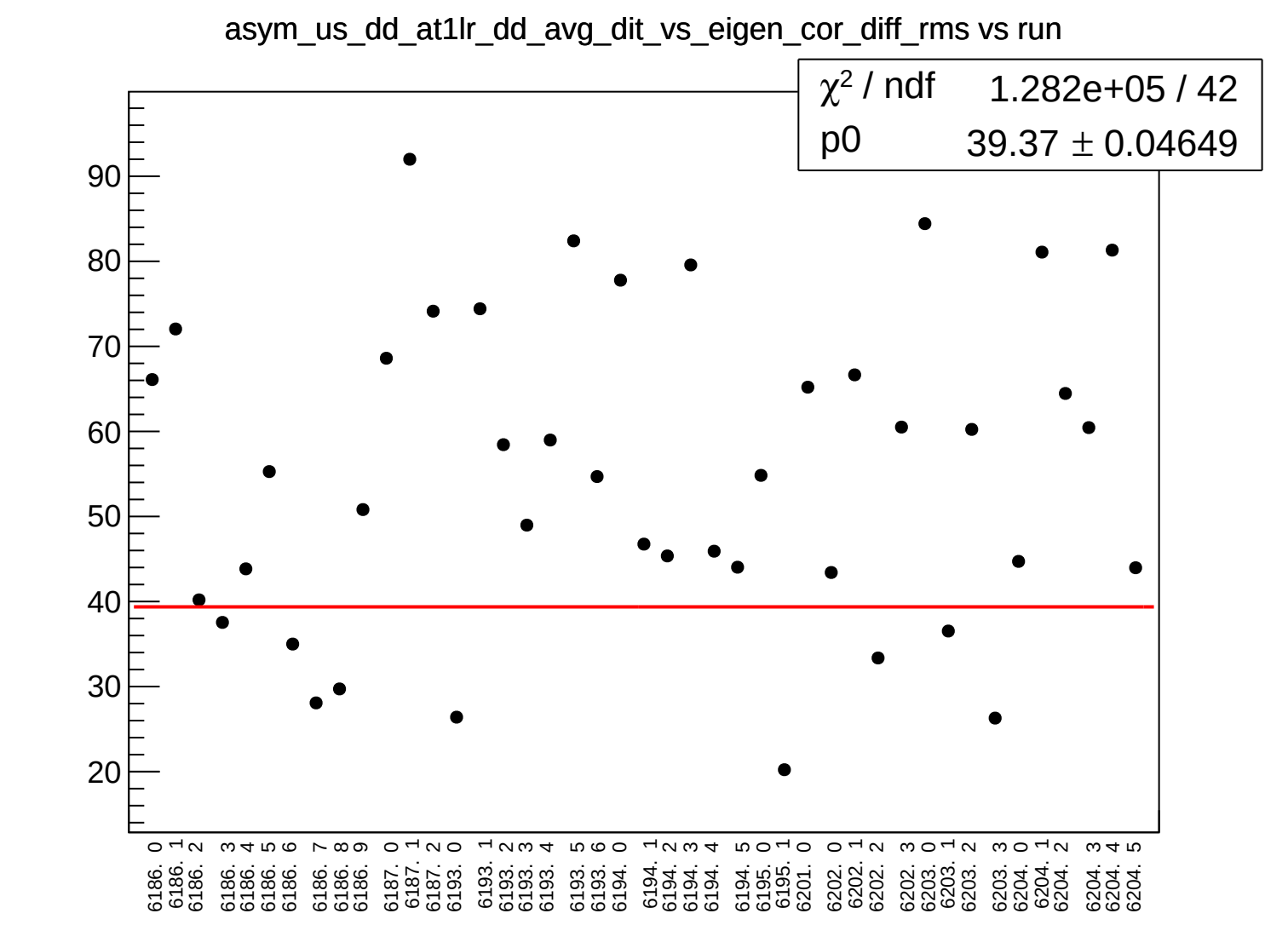

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 44.45 / 42
p0 0.005523 ± 0.06575
4
3
2
1
0
−1
−2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 127.6
Std Dev 0
3
2
1
0
−1
−2

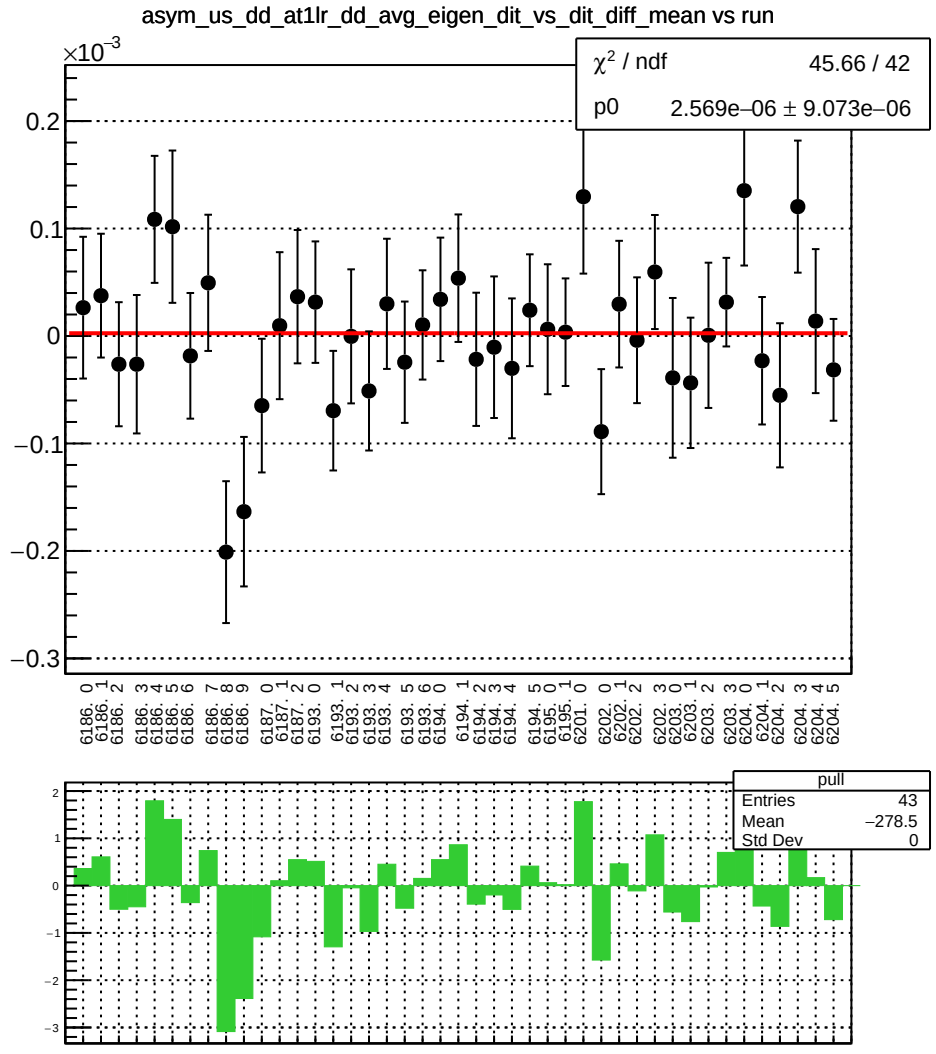

pull1D
Entries 43
Mean 0.02893
Std Dev 1.016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

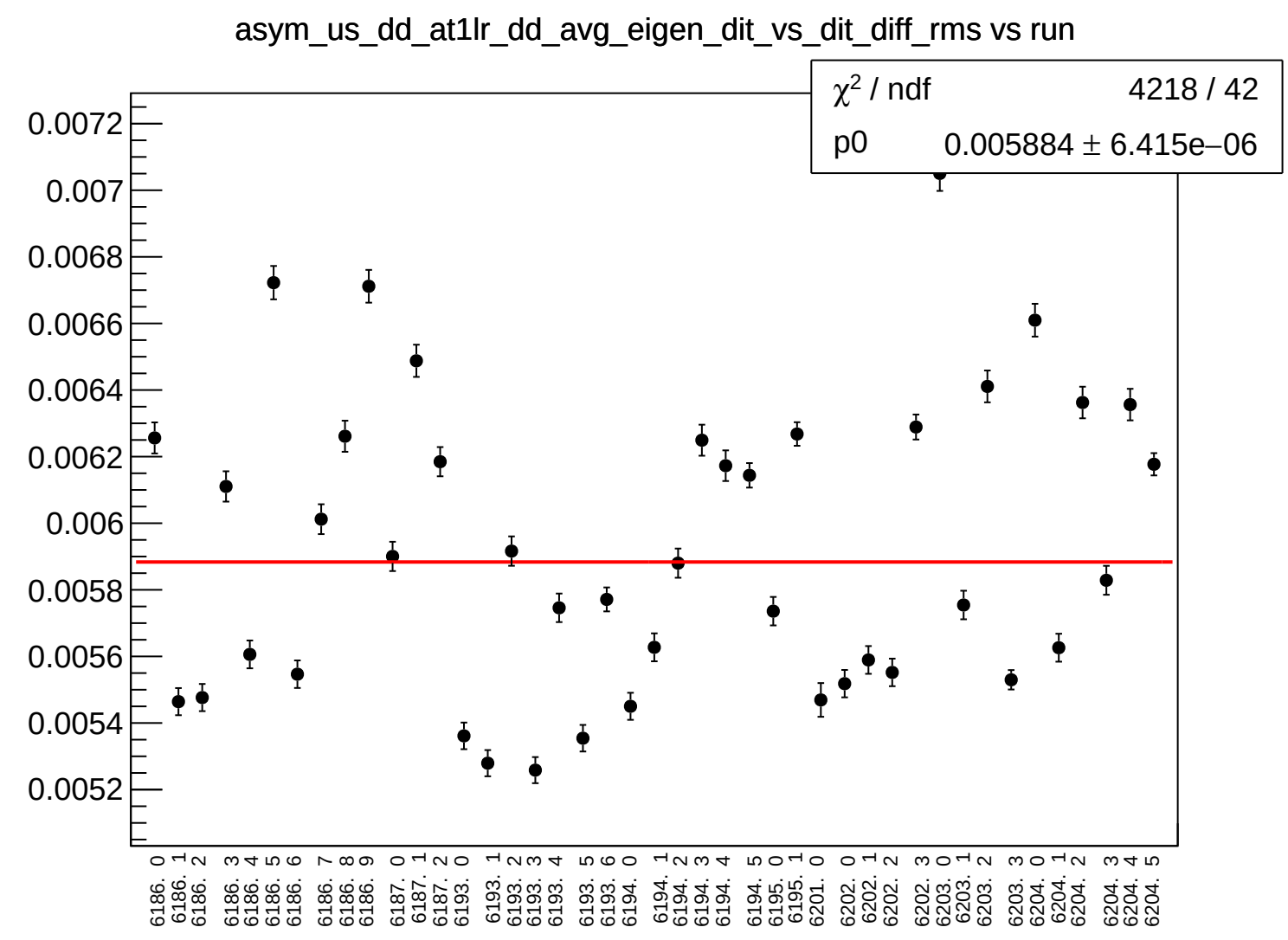

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.282e+05 / 42
p0 39.37 ± 0.04649
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

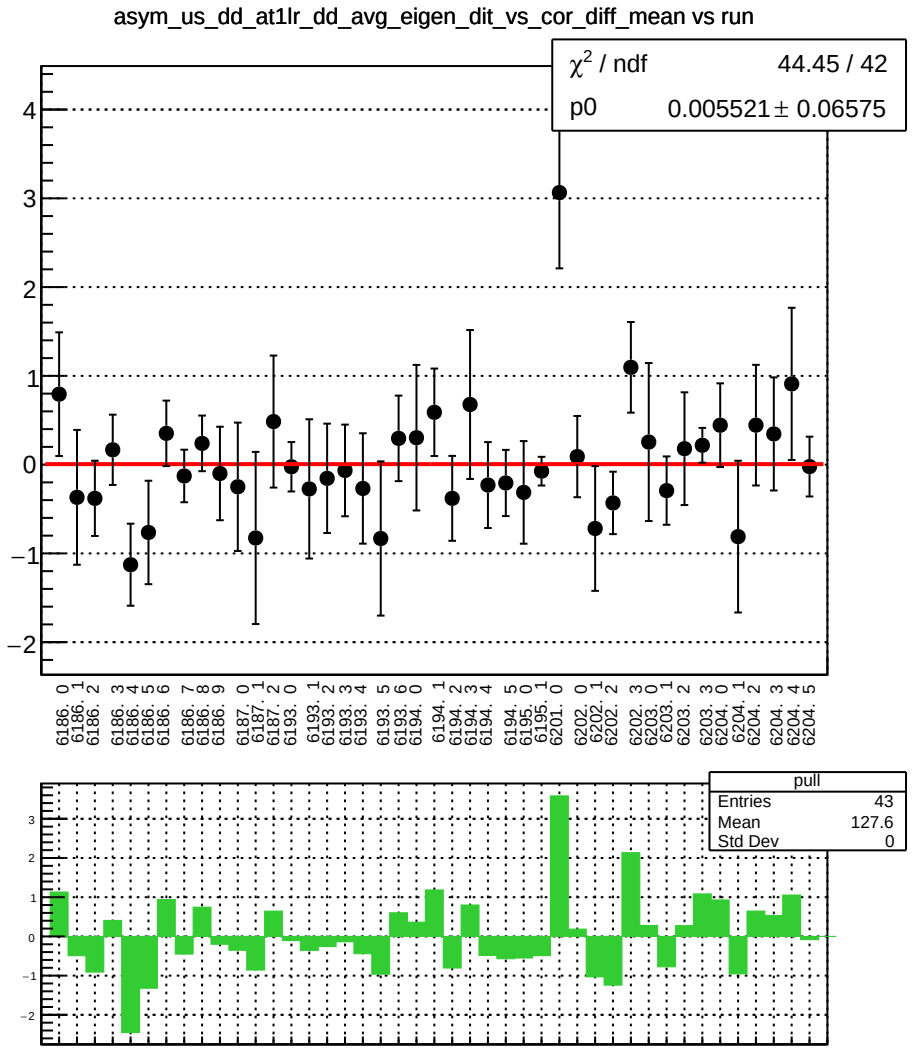

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.45 / 42
p0 0.005523 ± 0.06575
pull
Entries 43
Mean 127.6
Std Dev 0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

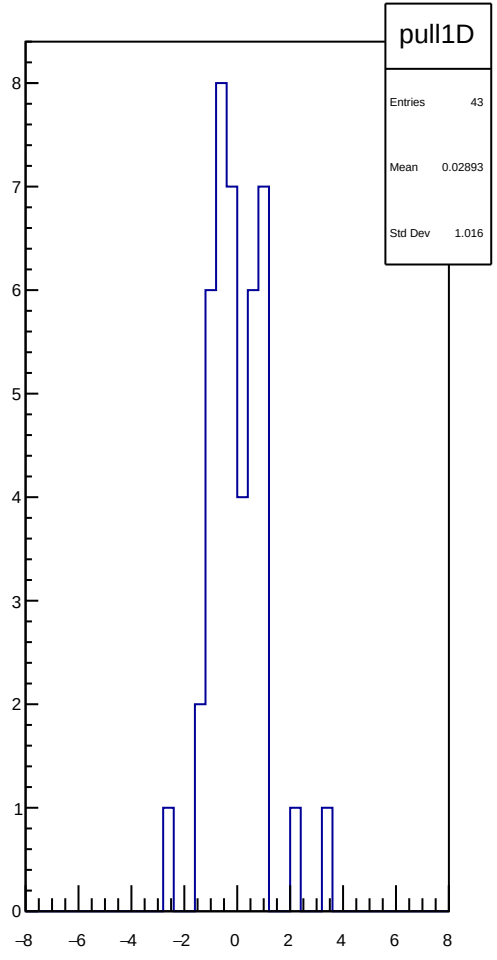

pull1D
Entries 43
Mean 0.02893
Std Dev 1.016

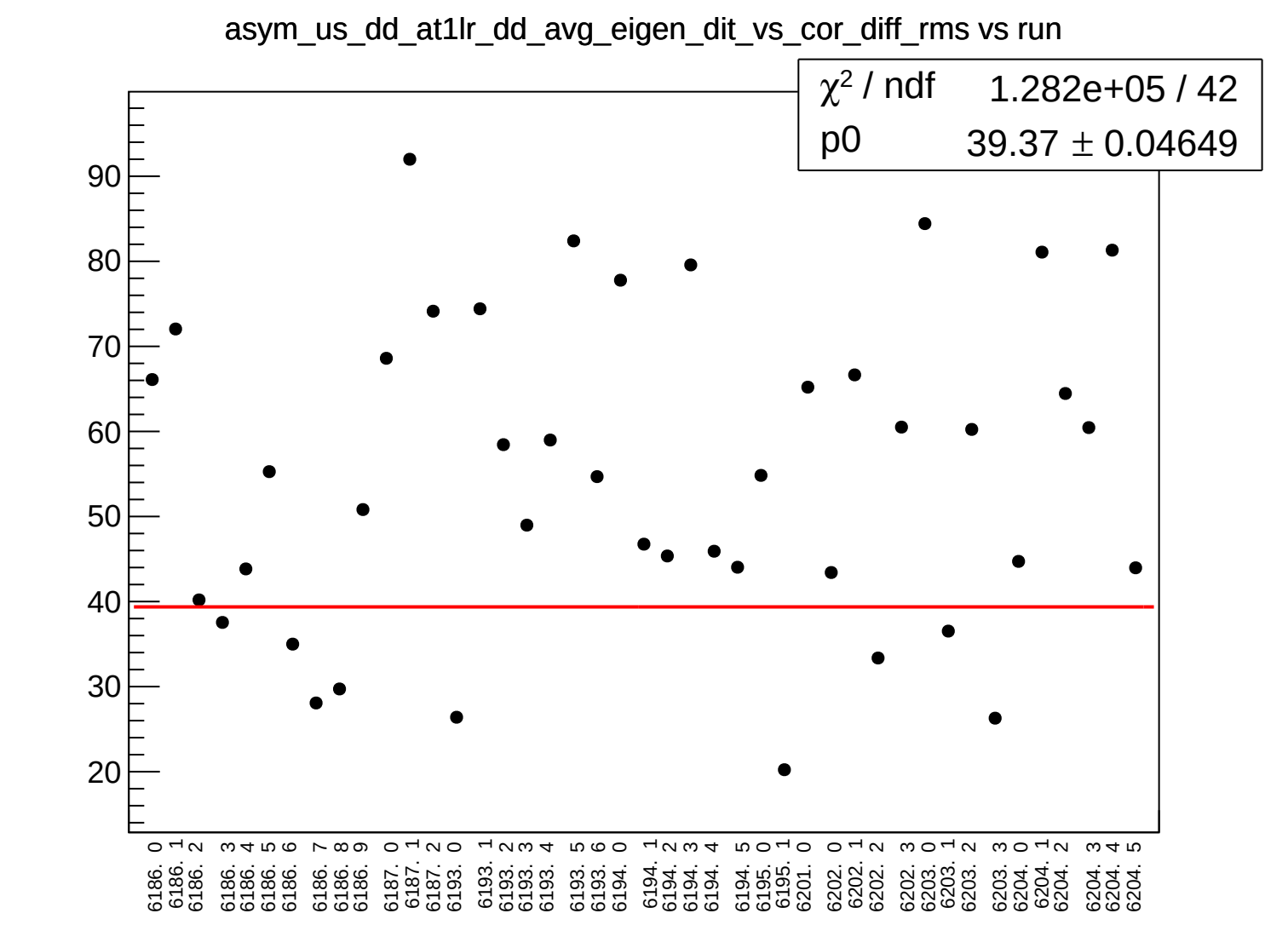

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.282e+05 / 42
p0 39.37 ± 0.04649
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

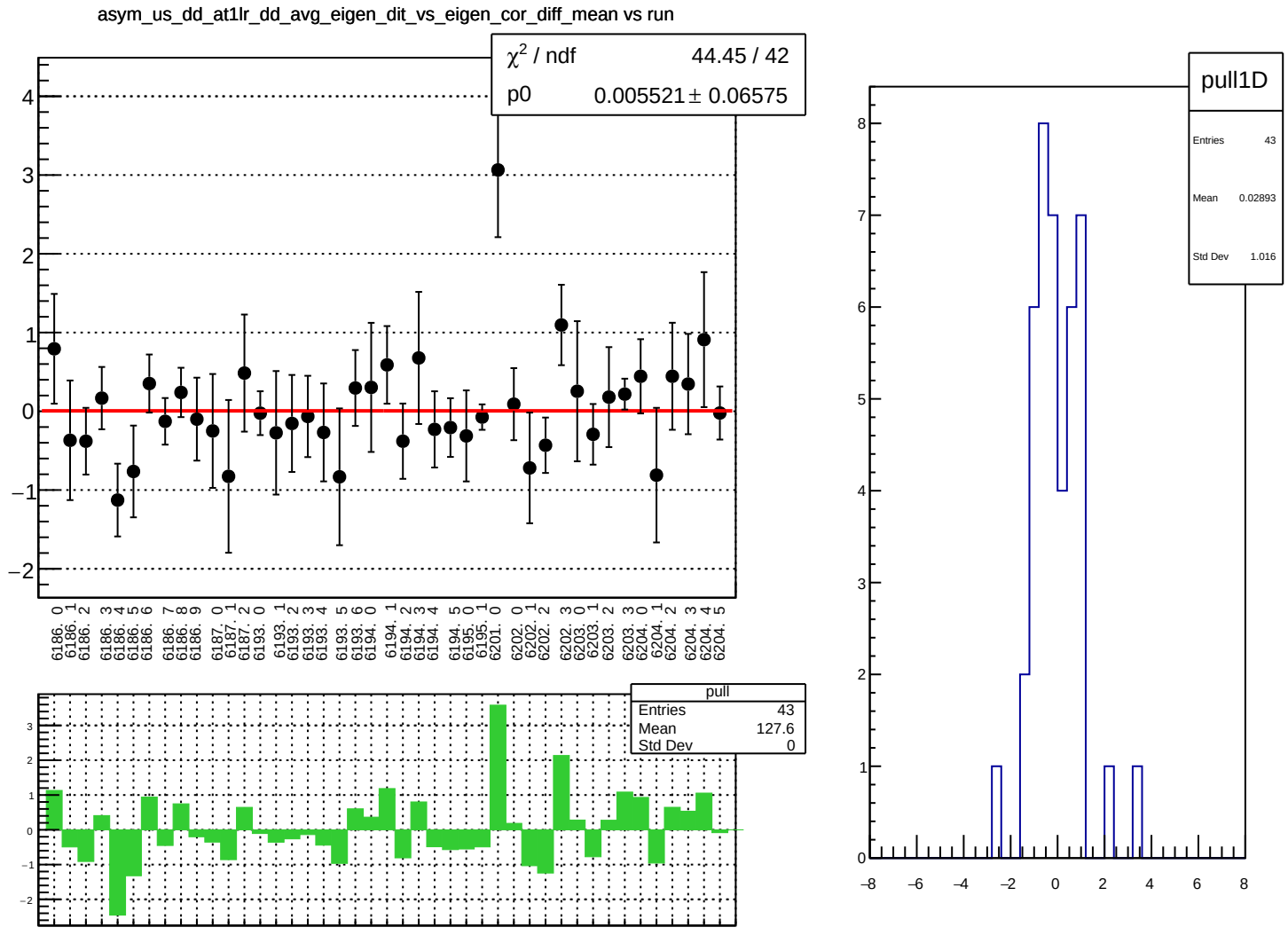

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.66 / 42
p0 2.569e−06 ± 9.073e−06
0.2
0.1
0
−0.1
−0.2
−0.3
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −278.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.00495
Std Dev 1.03
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

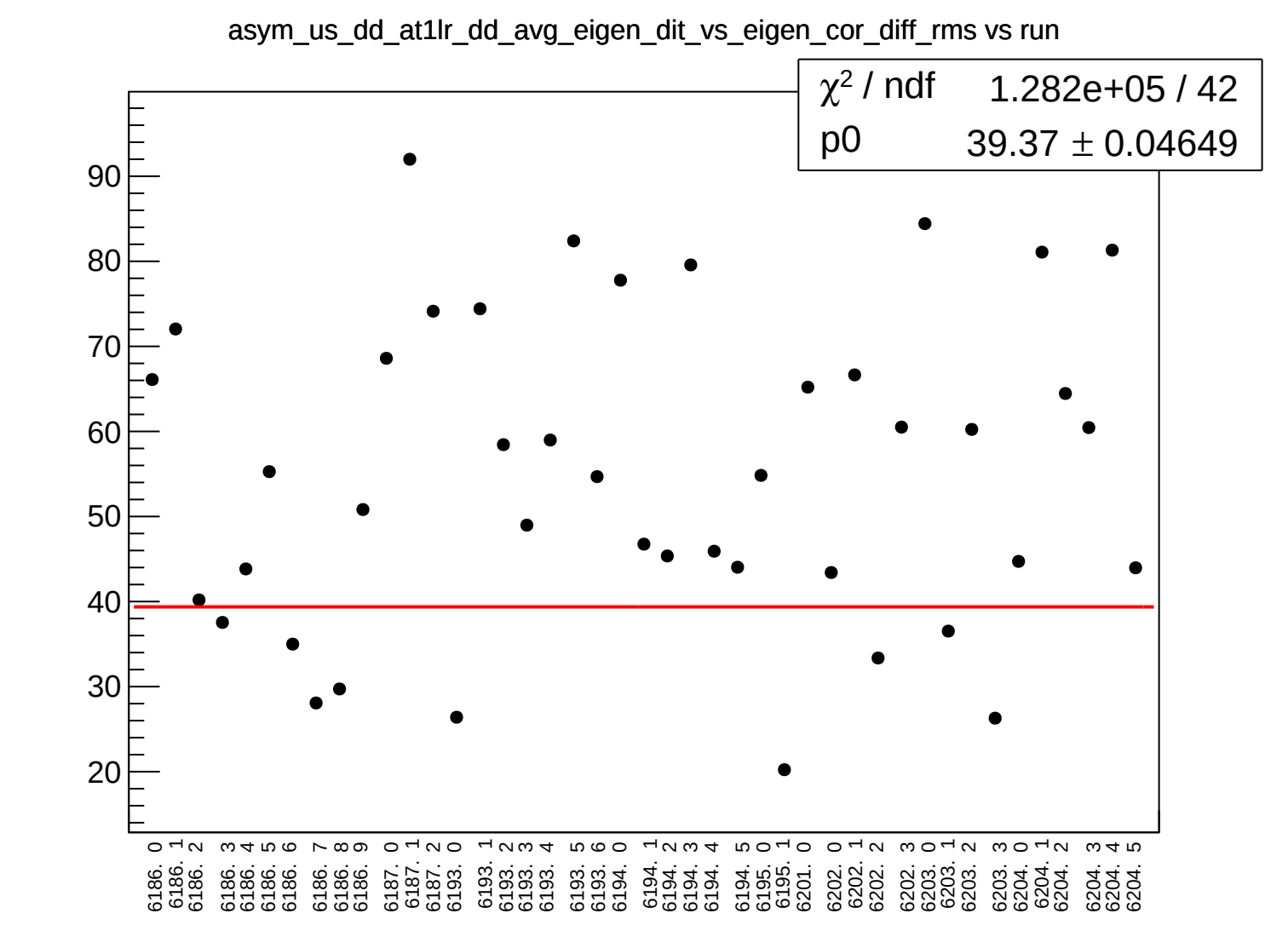

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4218 / 42
p0 0.005884 ± 6.415e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

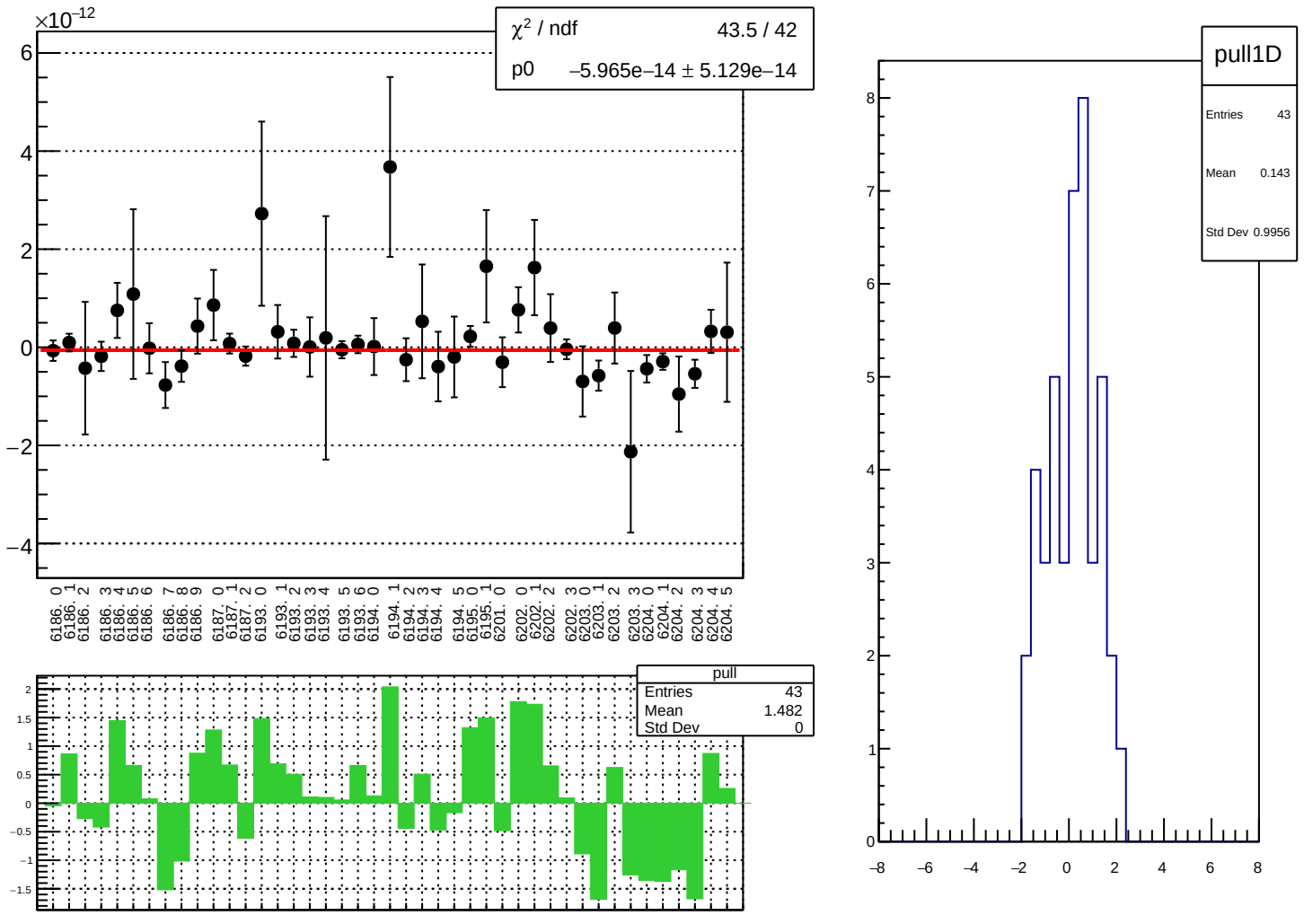

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.45 / 42
p0 0.005521 ± 0.06575
pull
Entries 43
Mean 127.6
Std Dev 0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

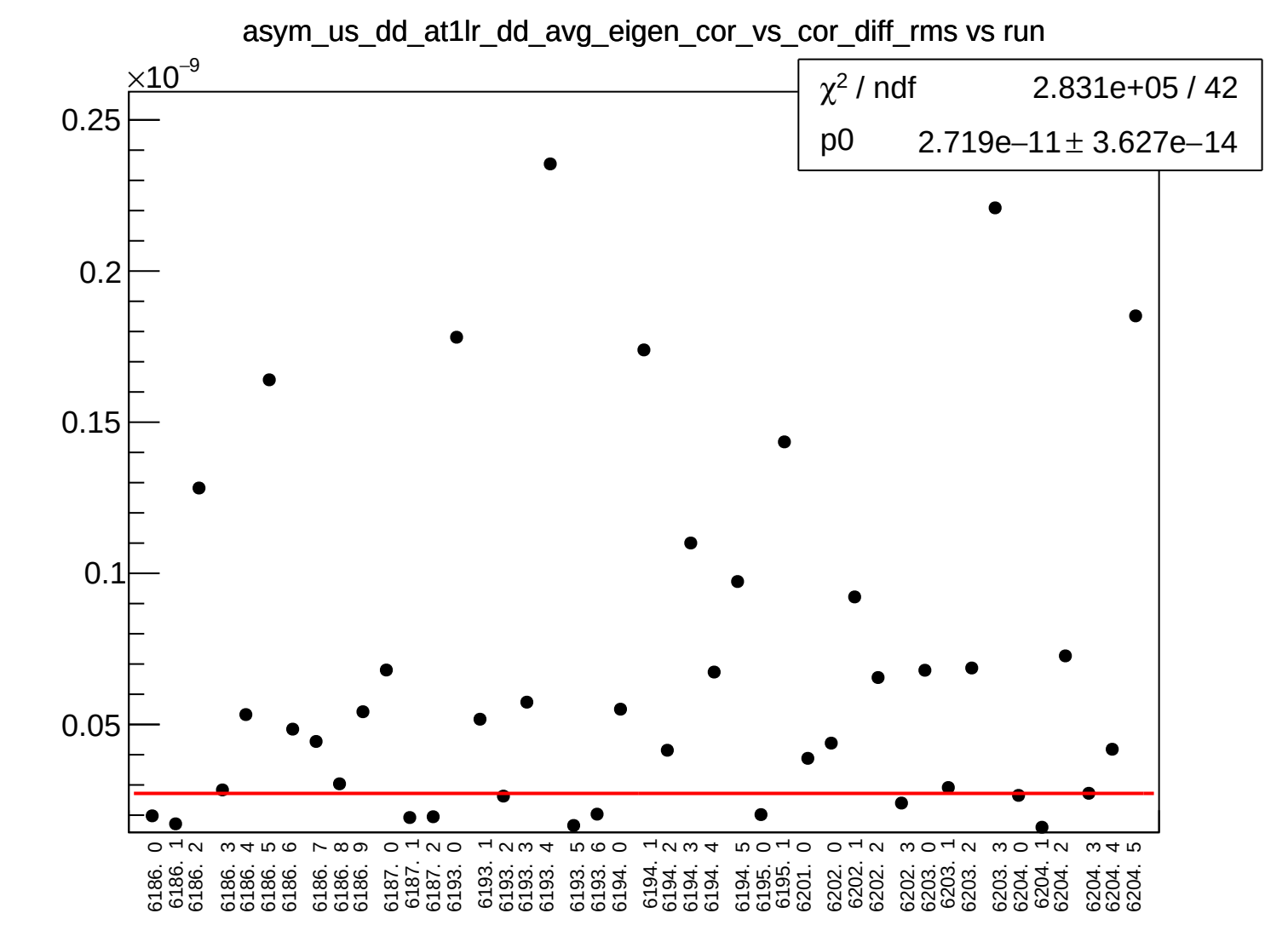

pull1D
Entries 43
Mean 0.02893
Std Dev 1.016

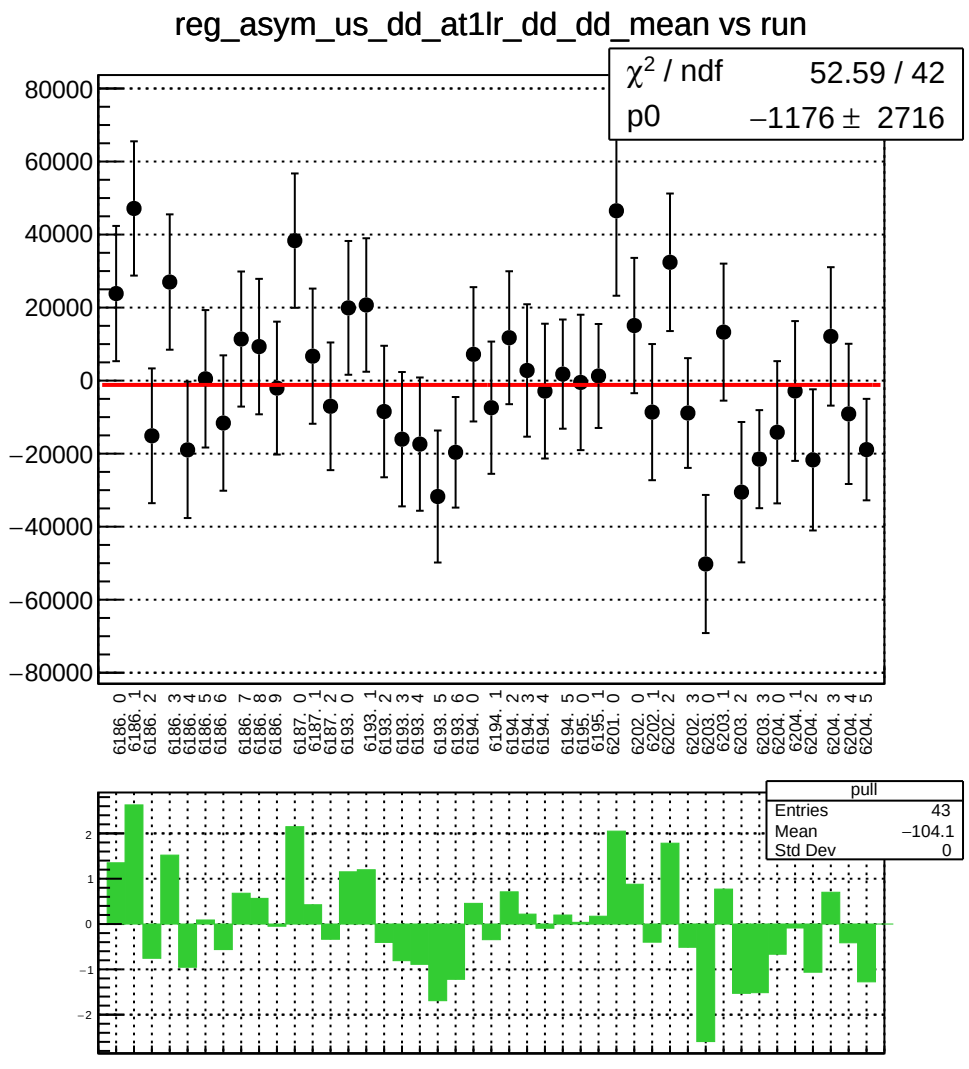

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.282e+05 / 42
p0 39.37 ± 0.04649
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

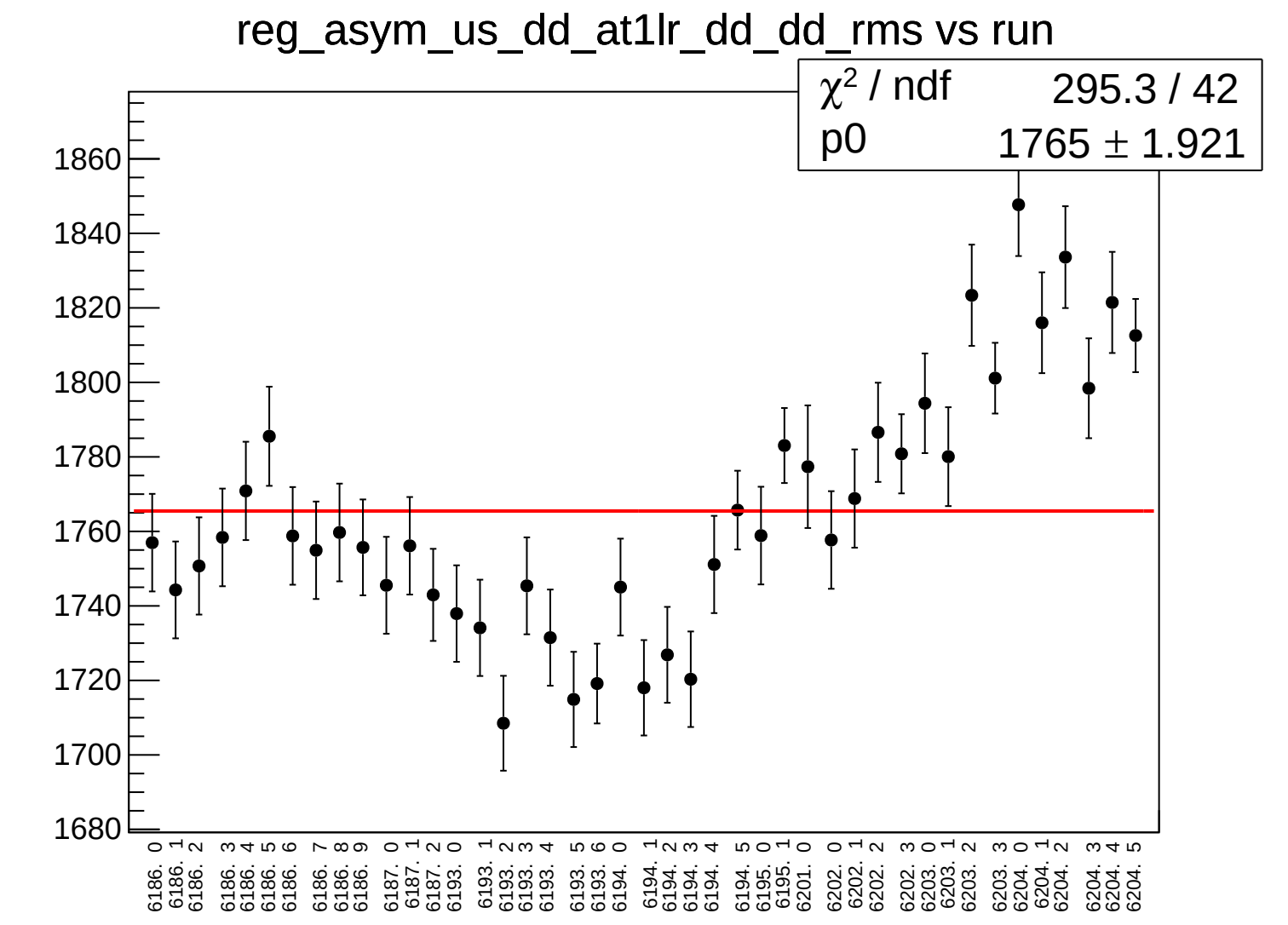

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.45 / 42
p0 0.005521 ± 0.06575
pull
Entries 43
Mean 127.6
Std Dev 0
pull1D
Entries 43
Mean 0.02893
Std Dev 1.016

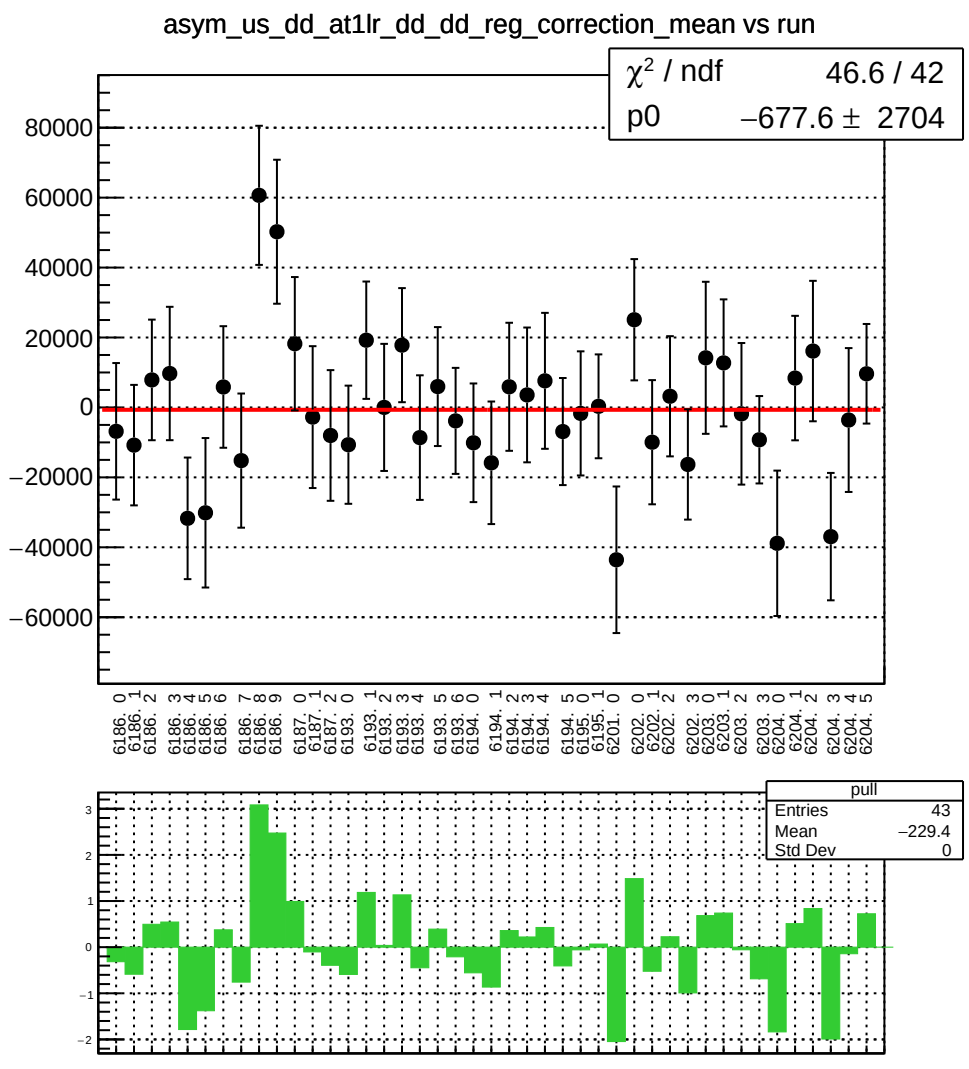

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.282e+05 / 42
p0 39.37 ± 0.04649
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

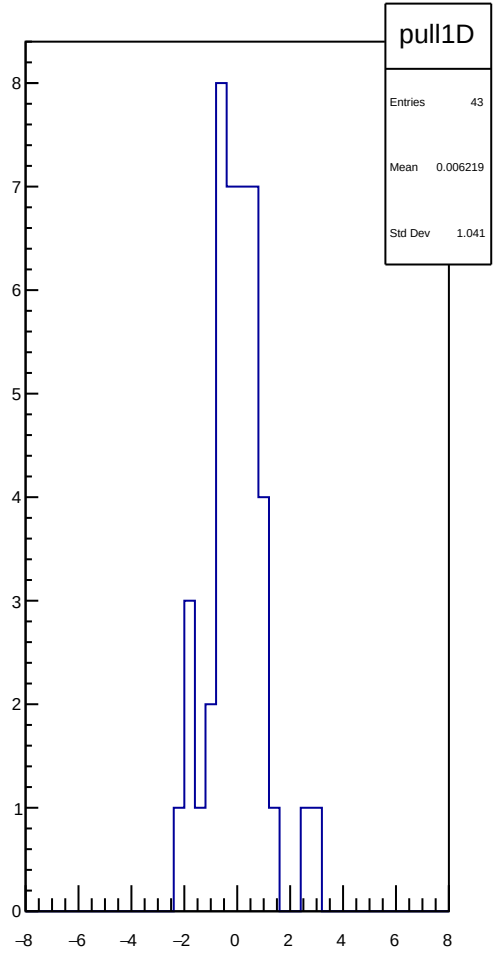

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.5 / 42
p0 −5.965e−14 ± 5.129e−14
6
4
2
0
−2
−4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1.482
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.143
Std Dev 0.9956
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

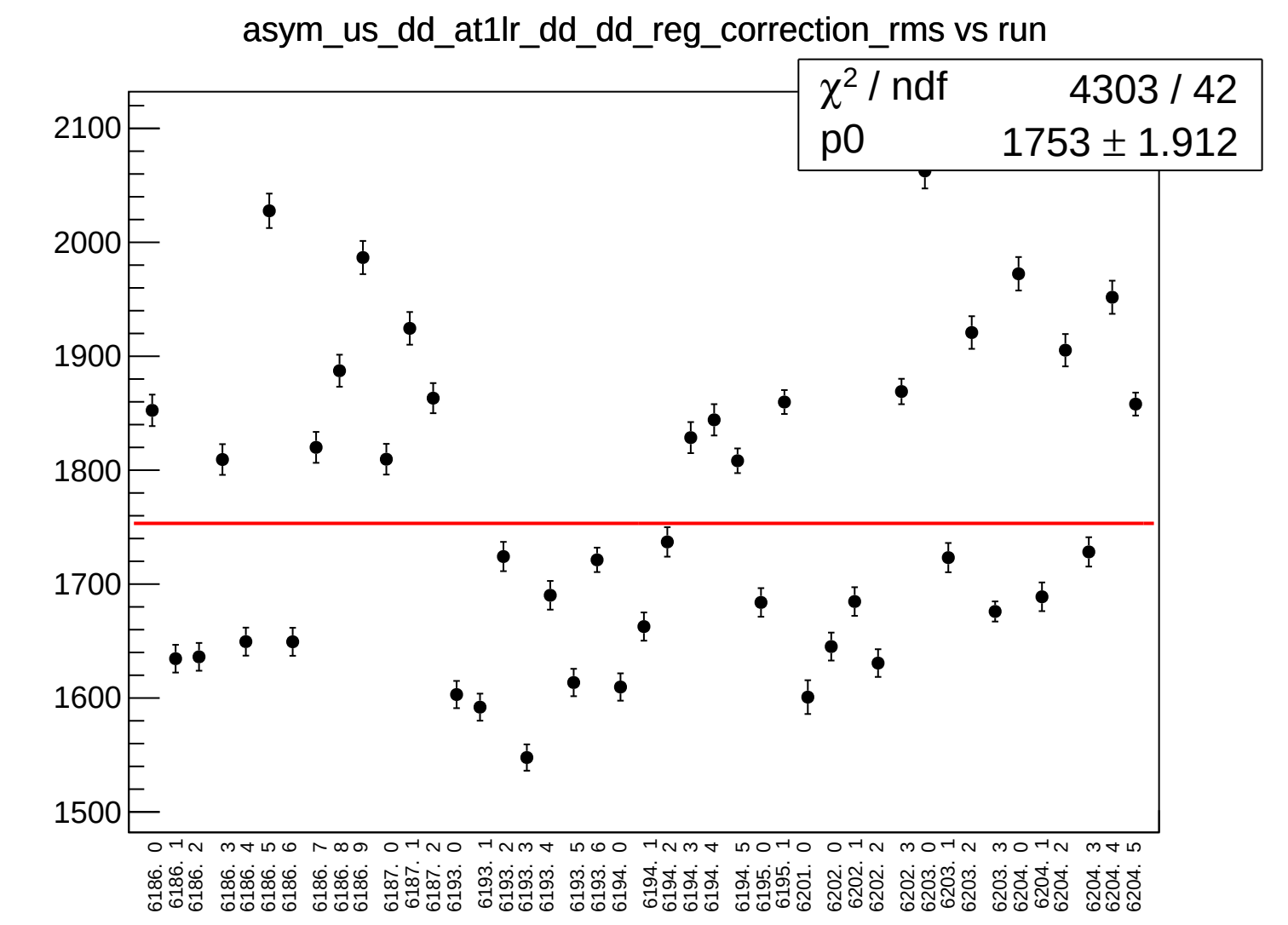

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.831e+05 / 42
p0 2.719e−11 ± 3.627e−14
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

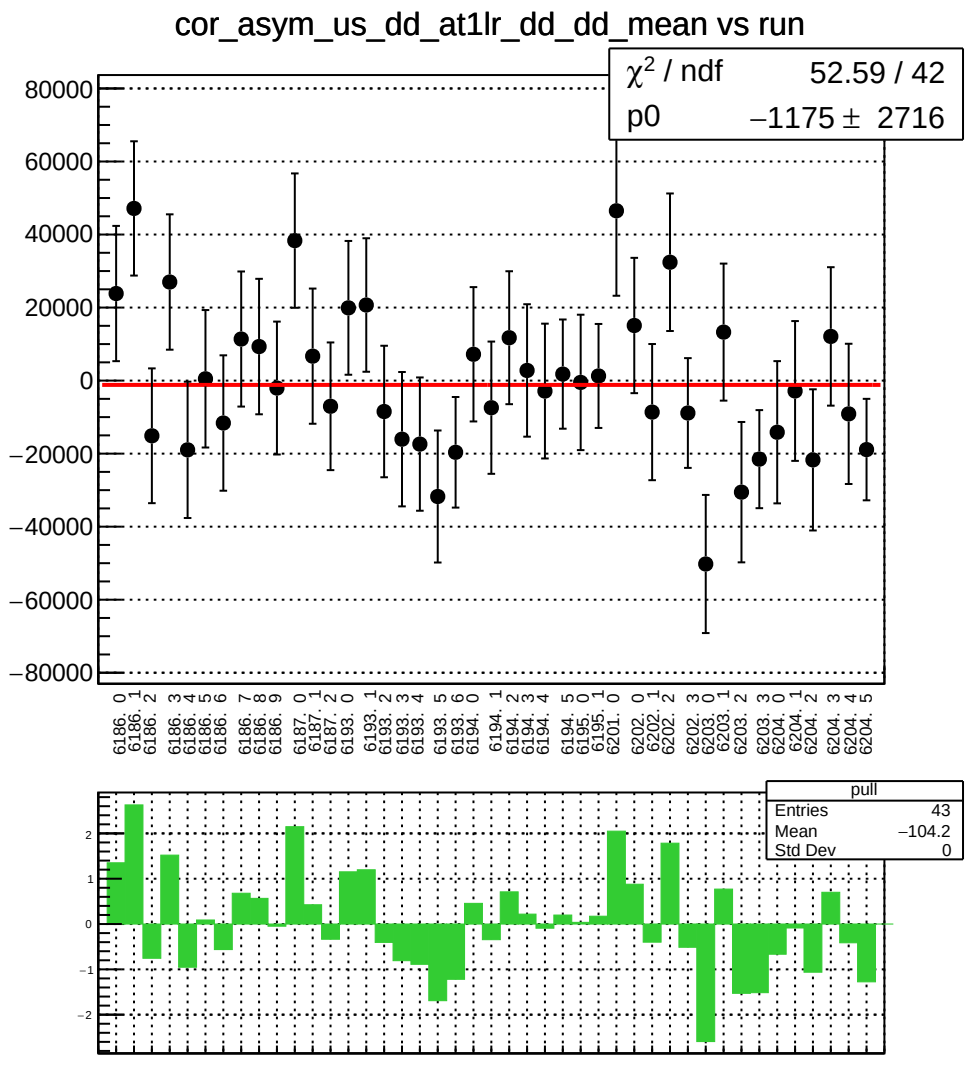

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 52.59 / 42
p0 −1176 ± 2716
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −104.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.0366
Std Dev 1.105
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

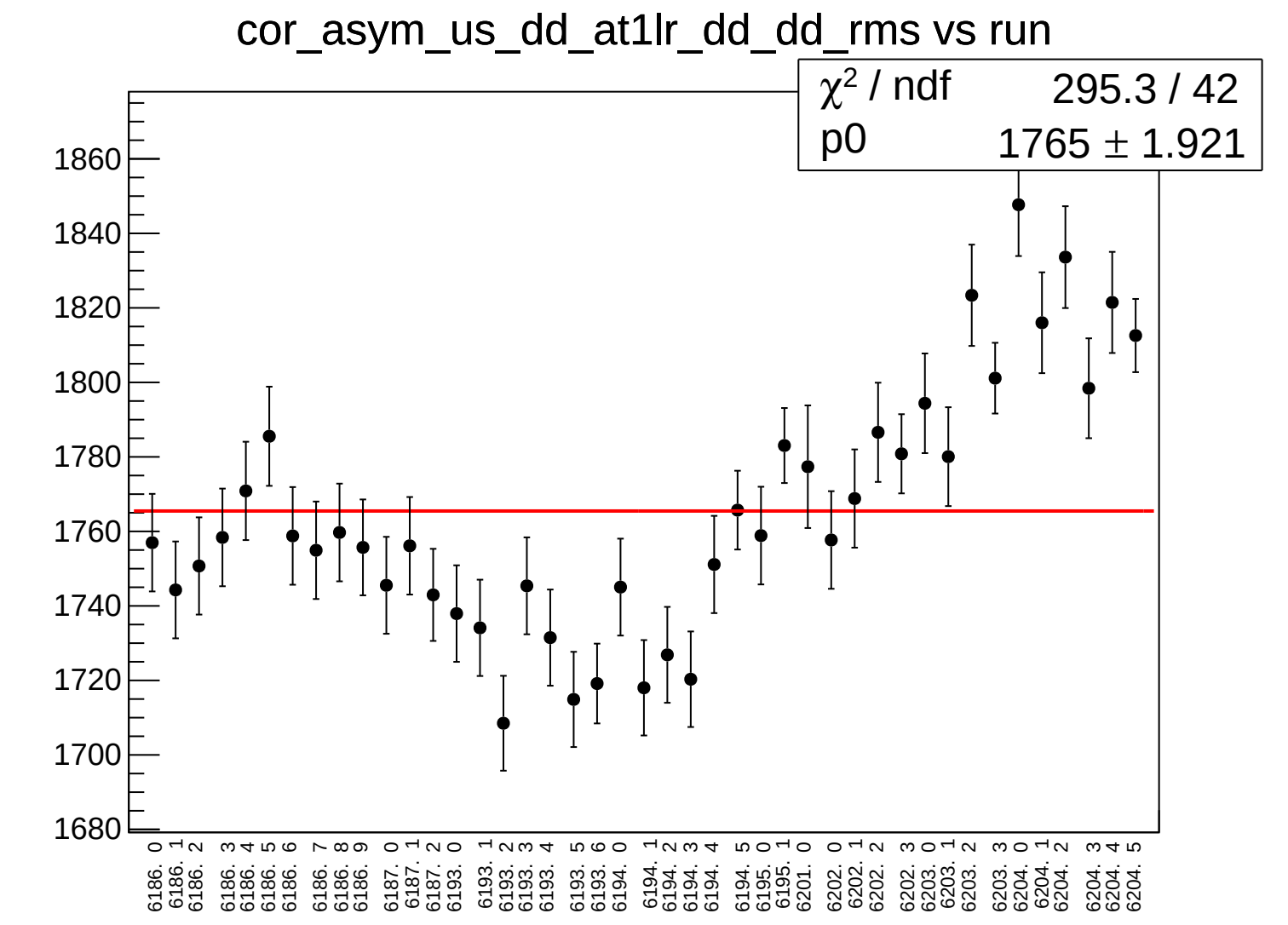

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 295.3 / 42
p0 1765 ± 1.921
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

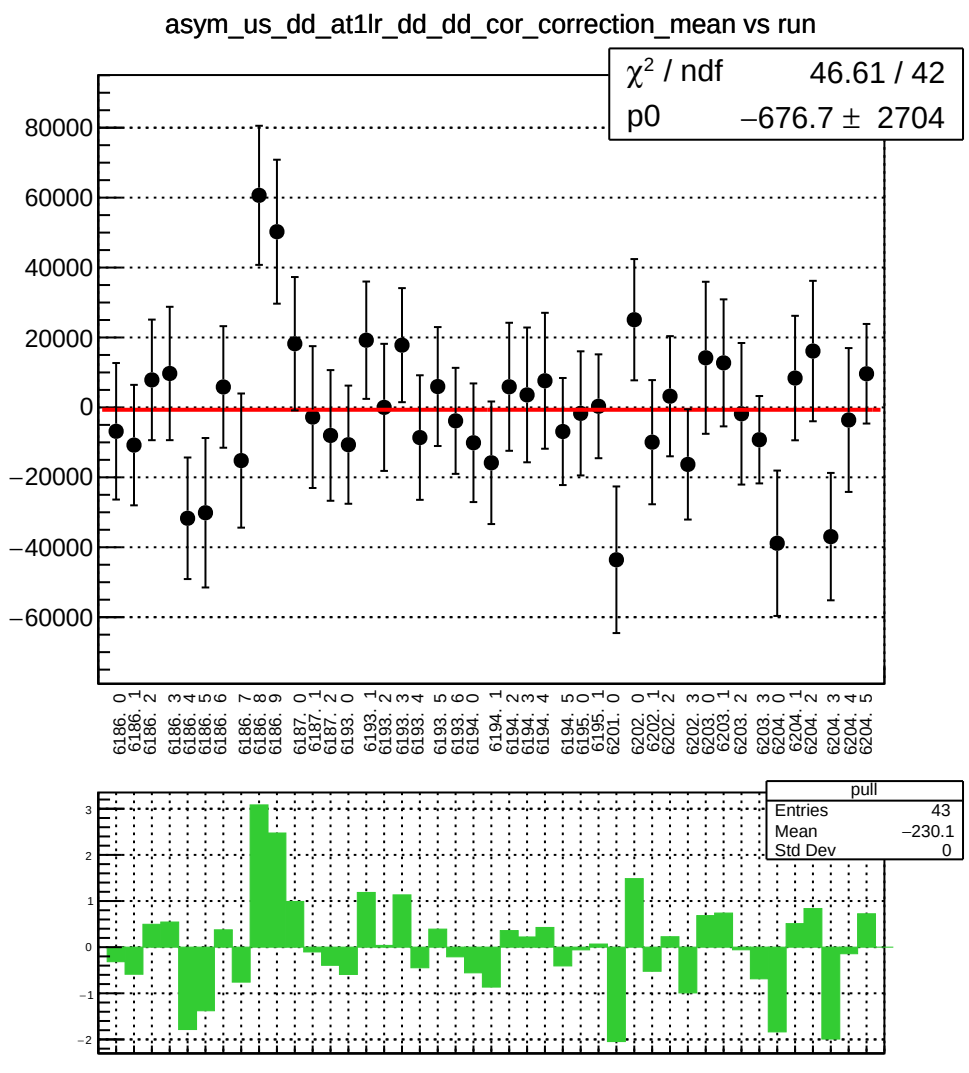

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 46.6 / 42
p0 −677.6 ± 2704
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −229.4
Std Dev 0
3
2
1
0
−1
−2

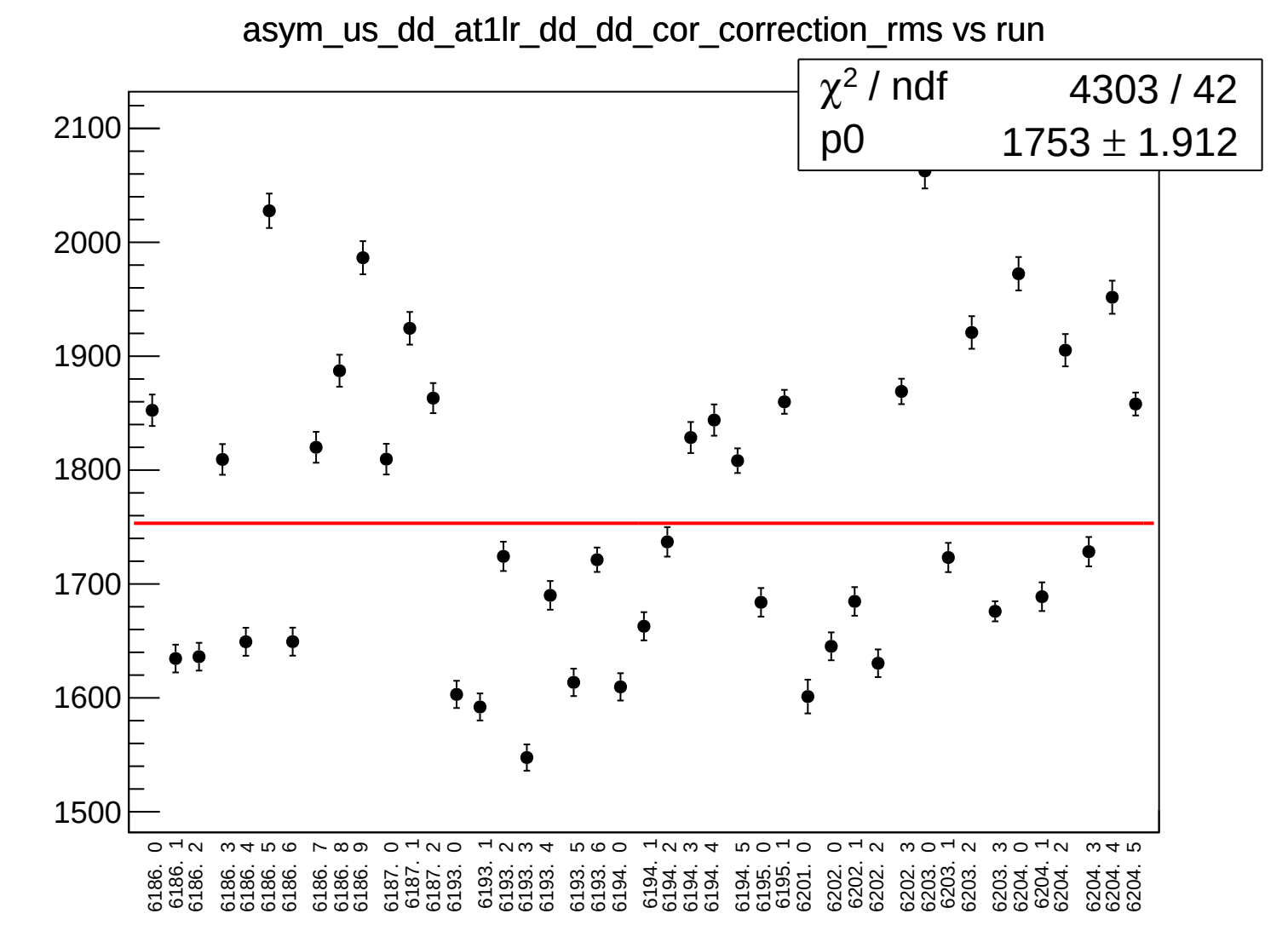

pull1D
Entries 43
Mean 0.006219
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

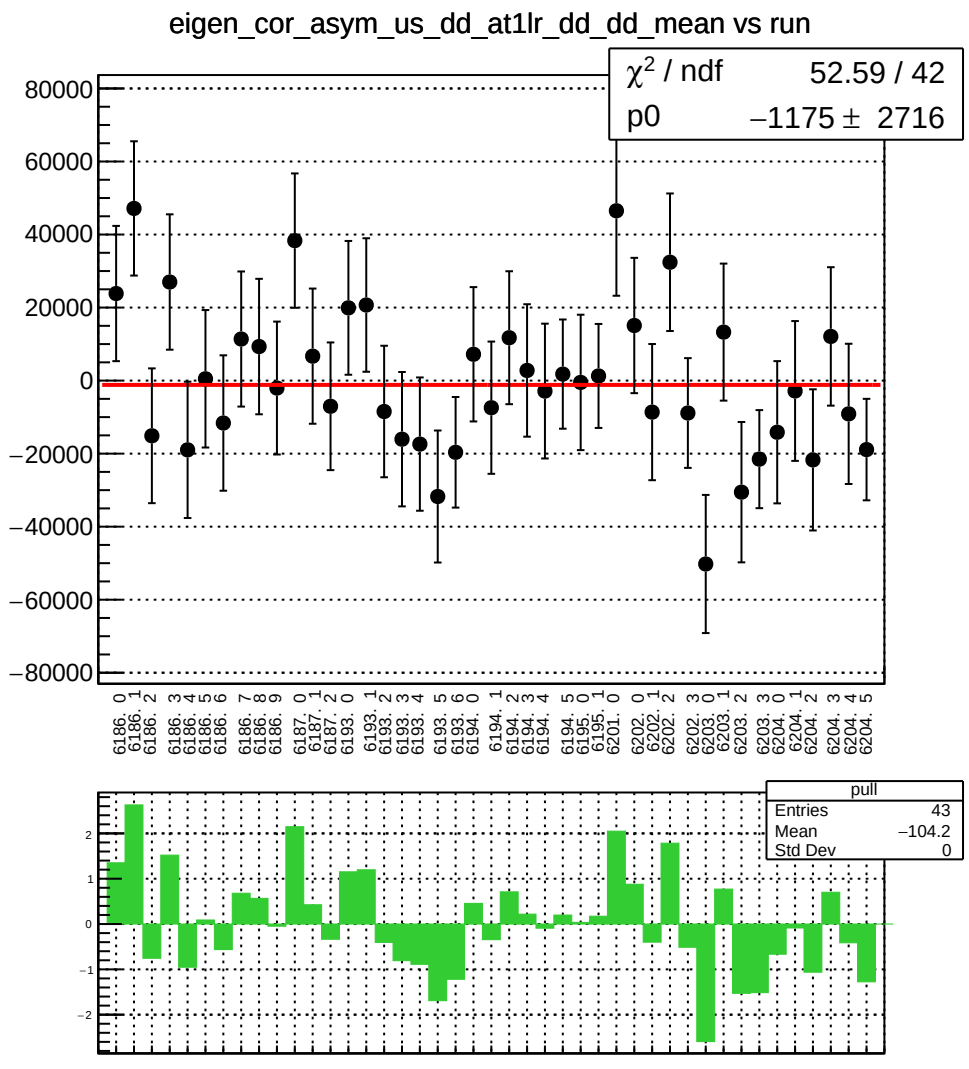

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 4303 / 42
p0 1753 ± 1.912
2100
2000
1900
1800
1700
1600
1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

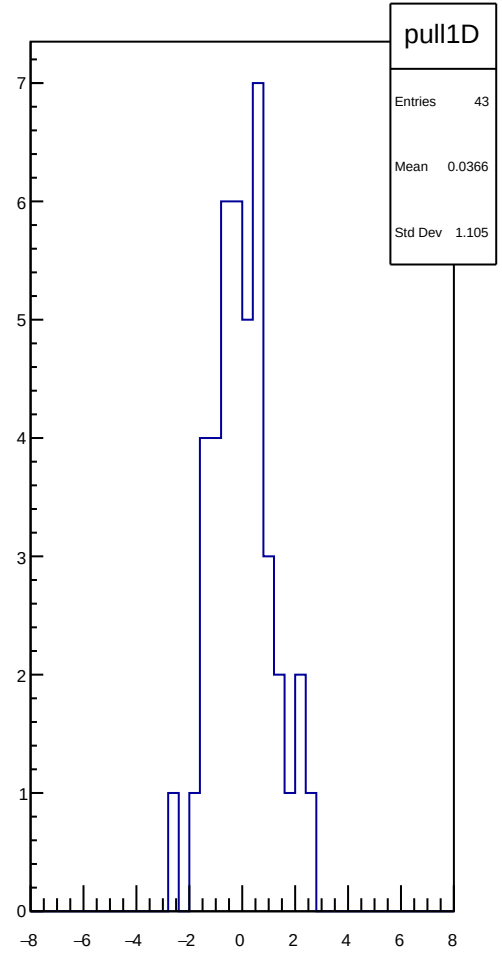

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 52.59 / 42
p0 −1175 ± 2716
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −104.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.0366
Std Dev 1.105
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

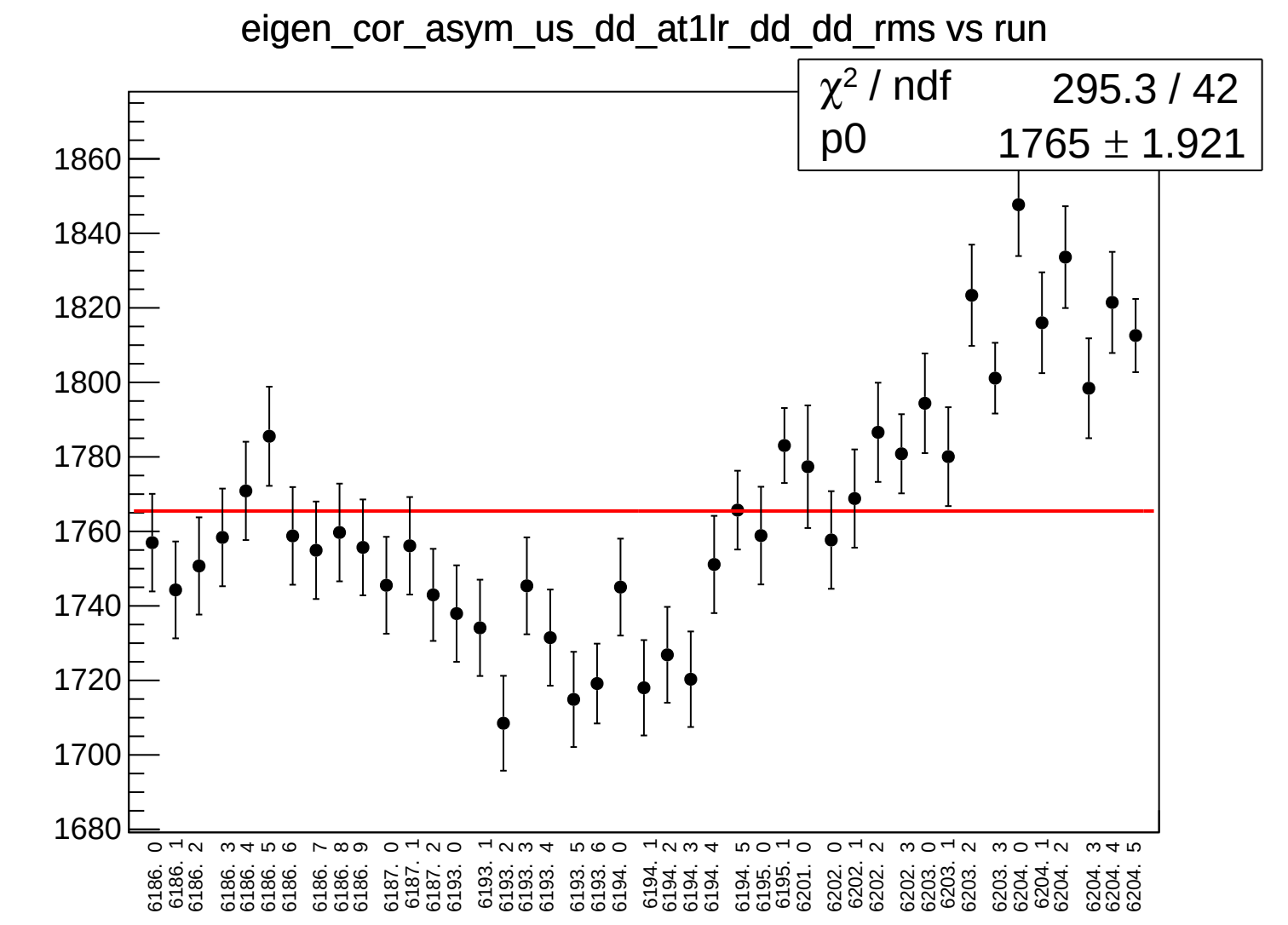

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 295.3 / 42
p0 1765 ± 1.921
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

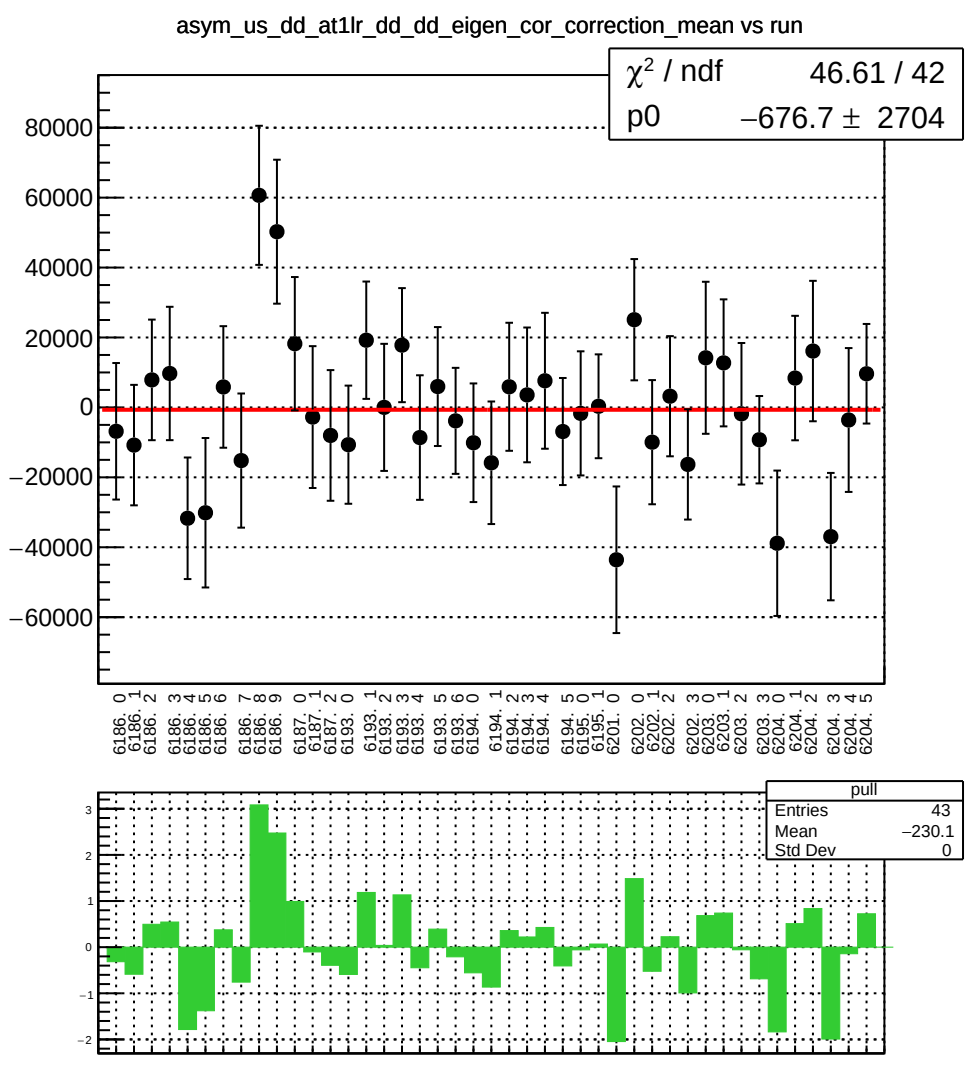

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 46.61 / 42
p0 −676.7 ± 2704
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −230.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.006203
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

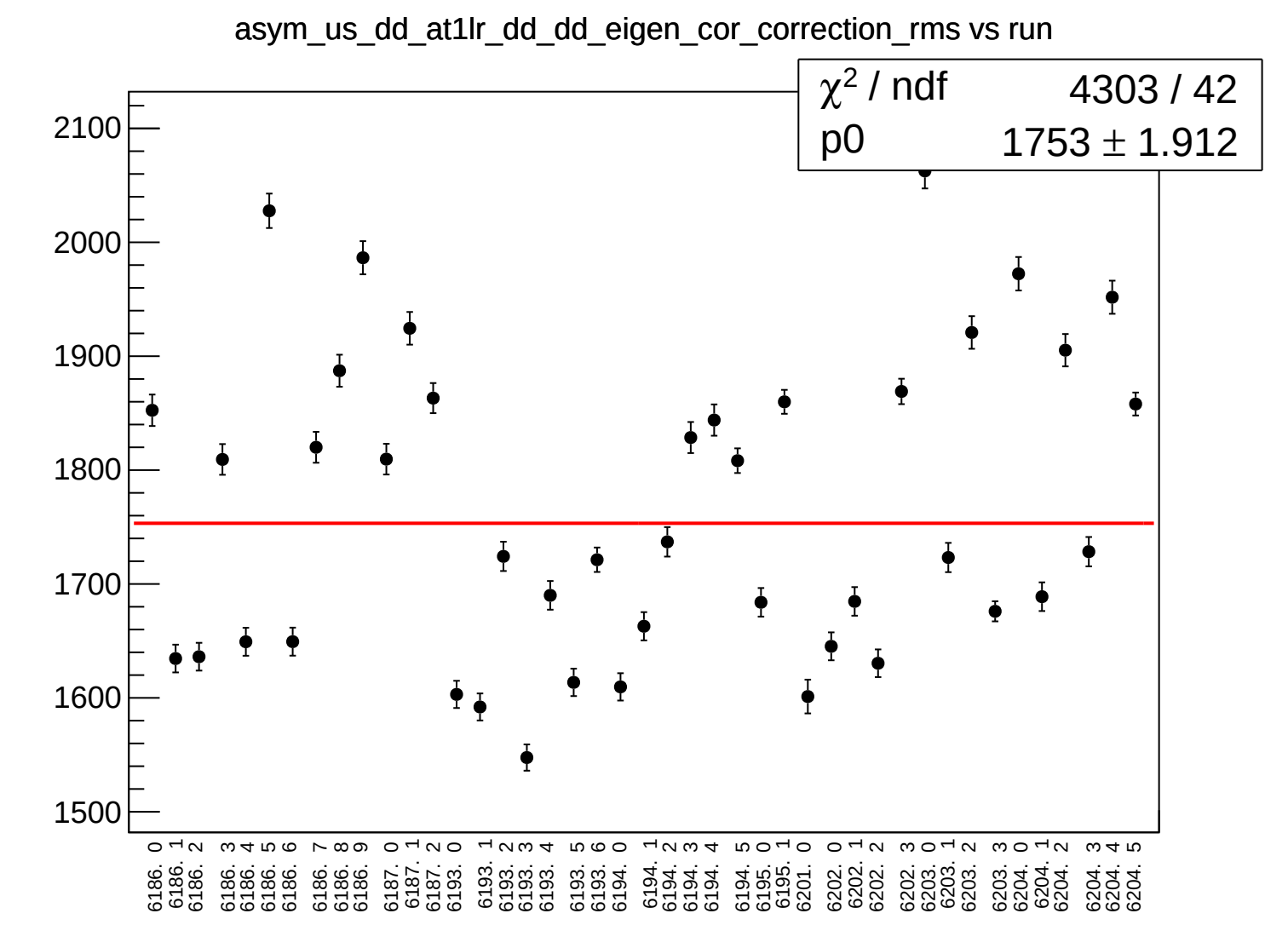

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 4303 / 42
p0 1753 ± 1.912
2100
2000
1900
1800
1700
1600
1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

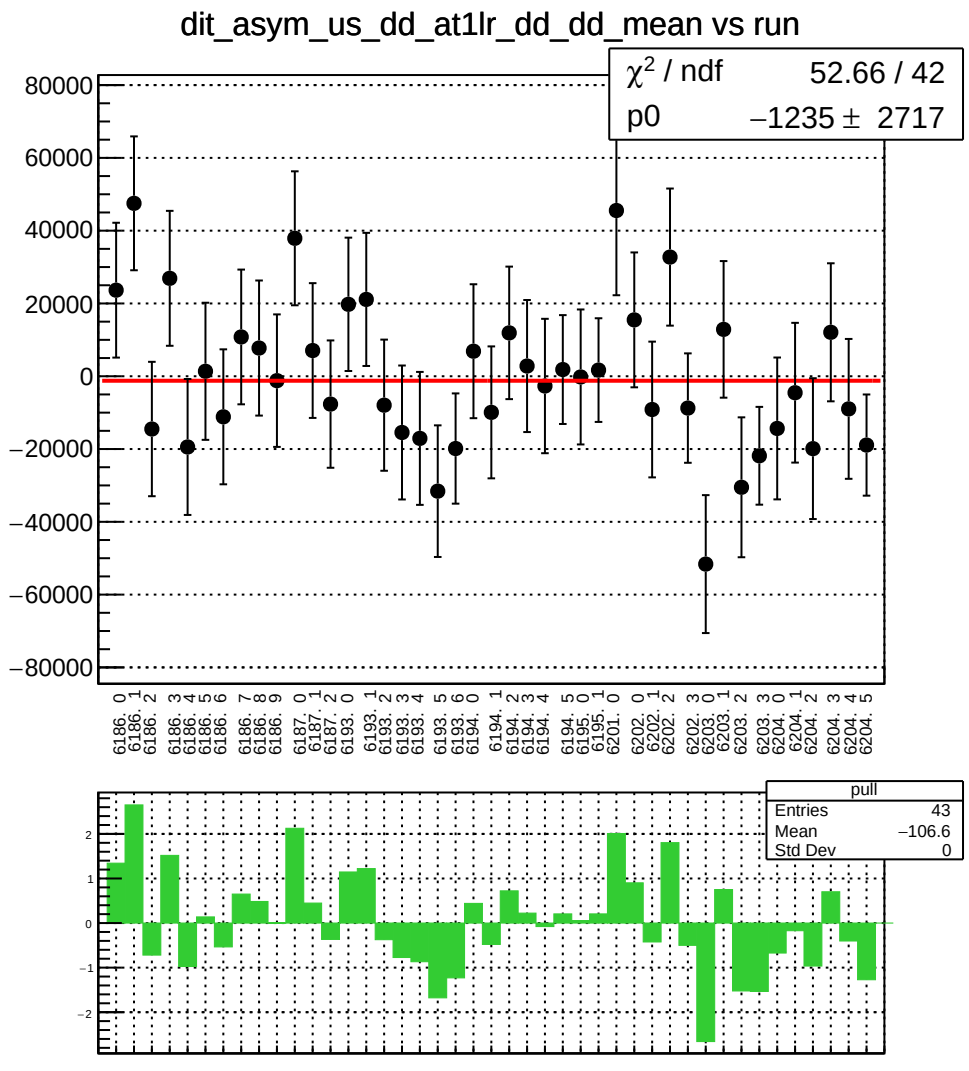

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 52.59 / 42
p0 −1175 ± 2716
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −104.2
Std Dev 0
2
1
0
−1
−2

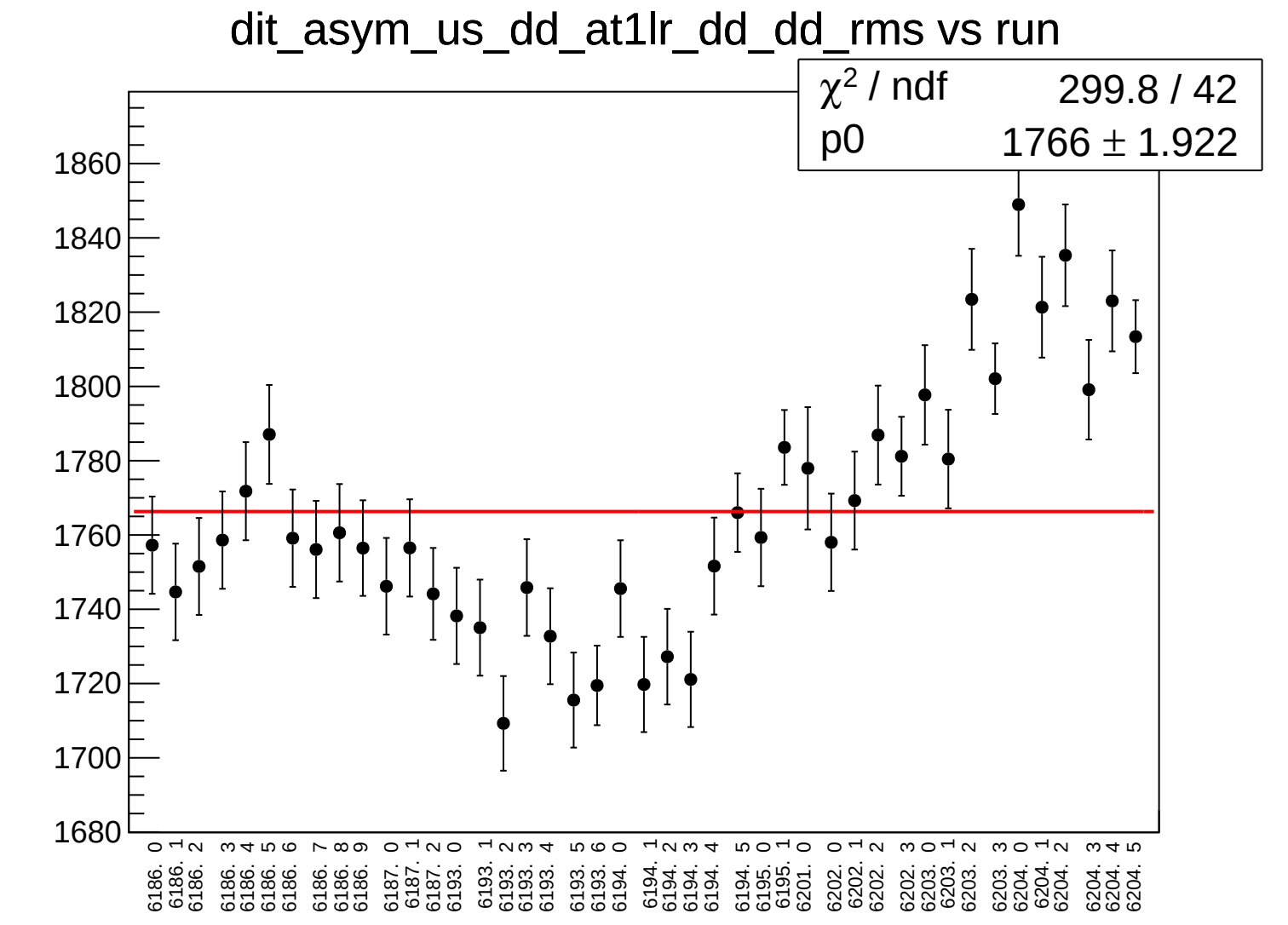

pull1D
Entries 43
Mean 0.0366
Std Dev 1.105
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

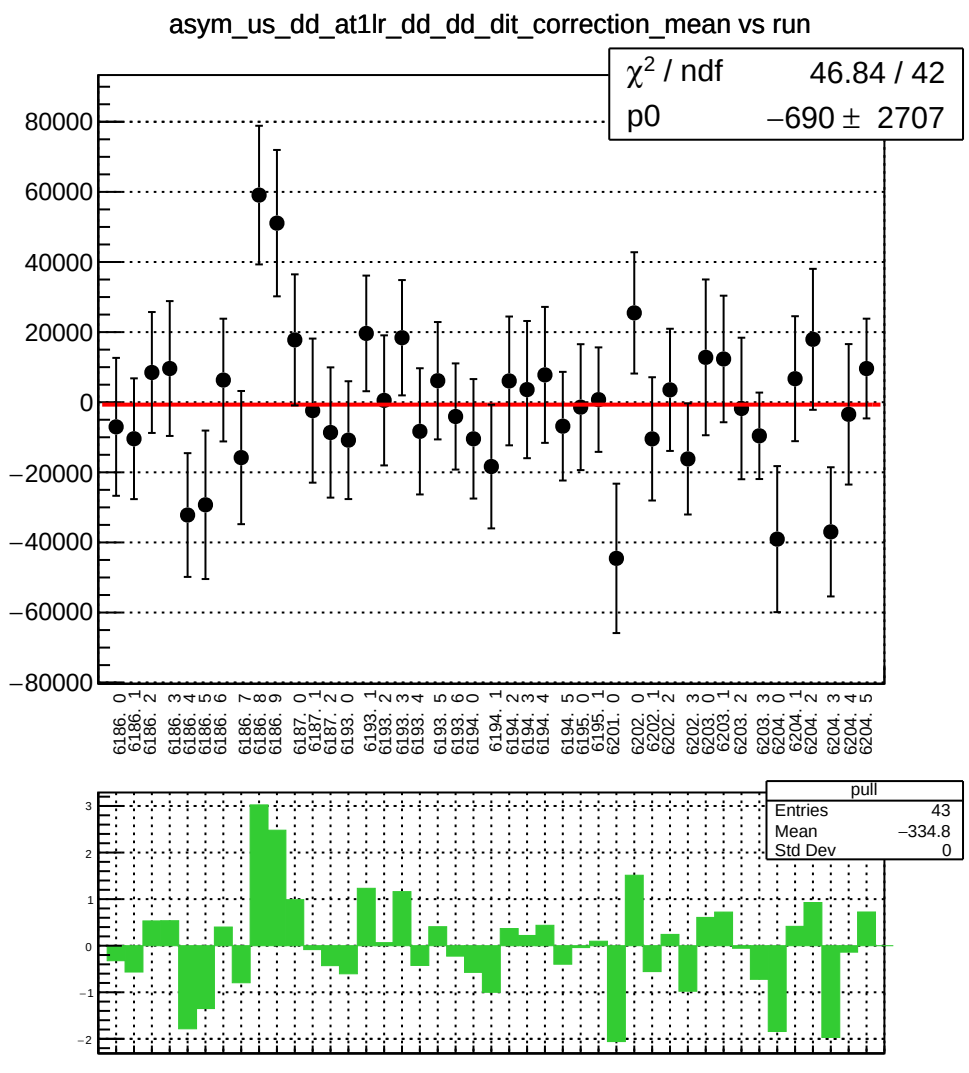

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 295.3 / 42
p0 1765 ± 1.921
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

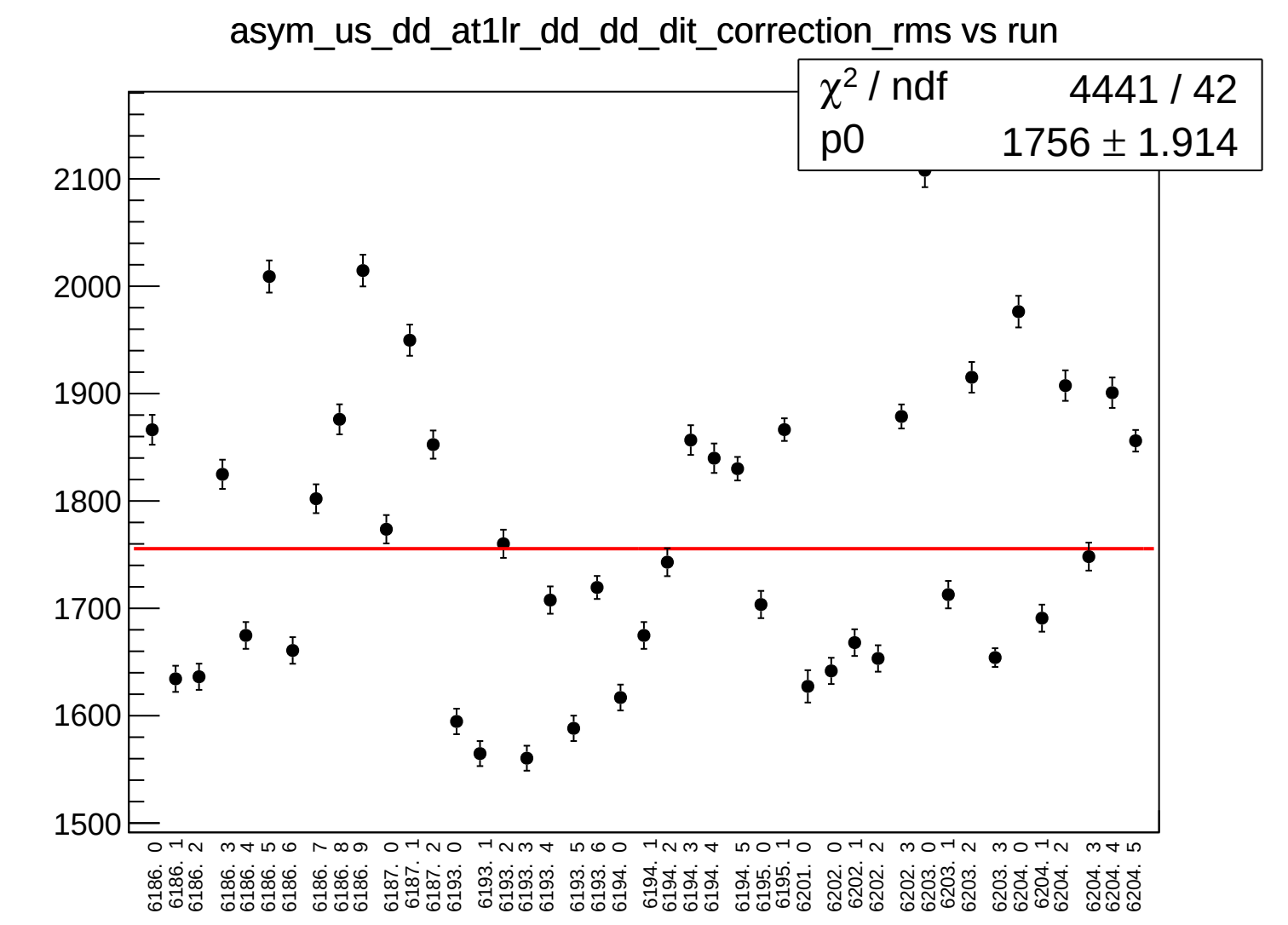

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 46.61 / 42
p0 −676.7 ± 2704
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −230.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.006203
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

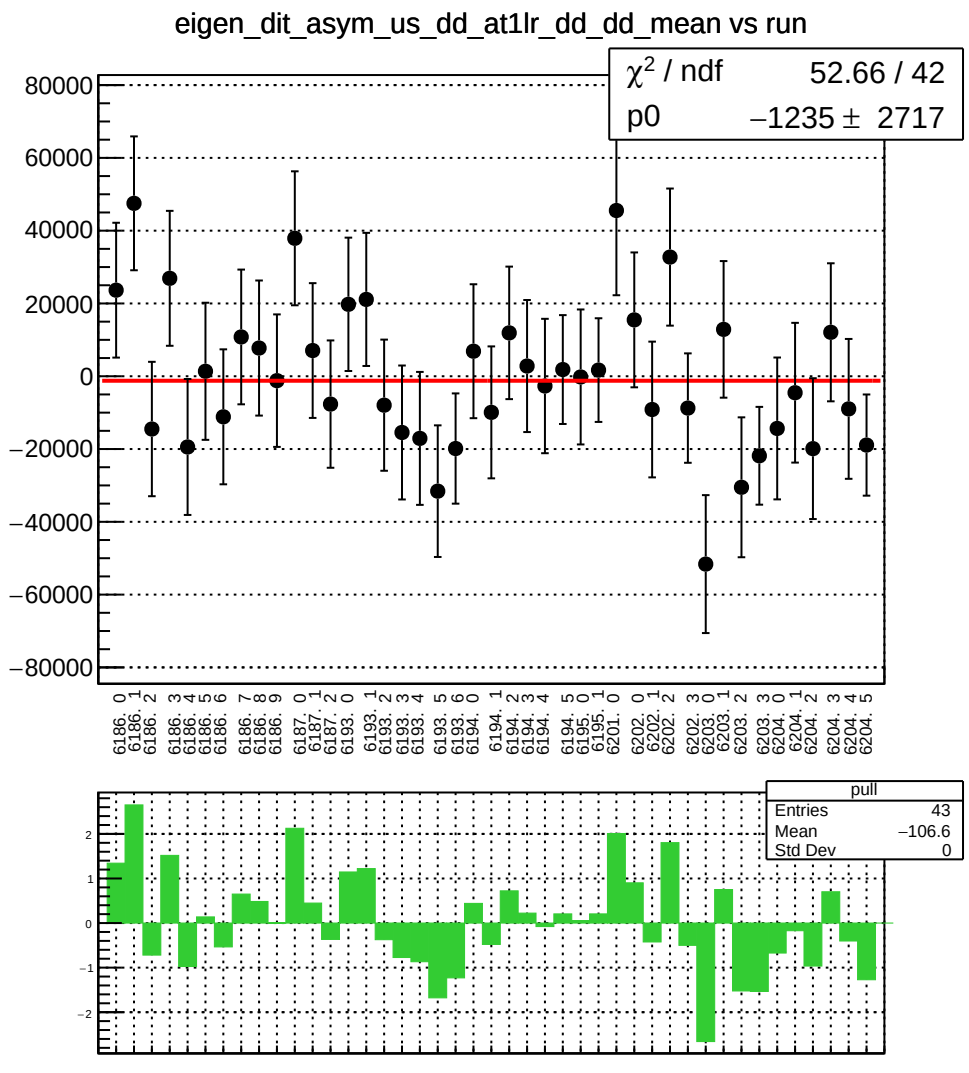

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4303 / 42
p0 1753 ± 1.912
2100
2000
1900
1800
1700
1600
1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

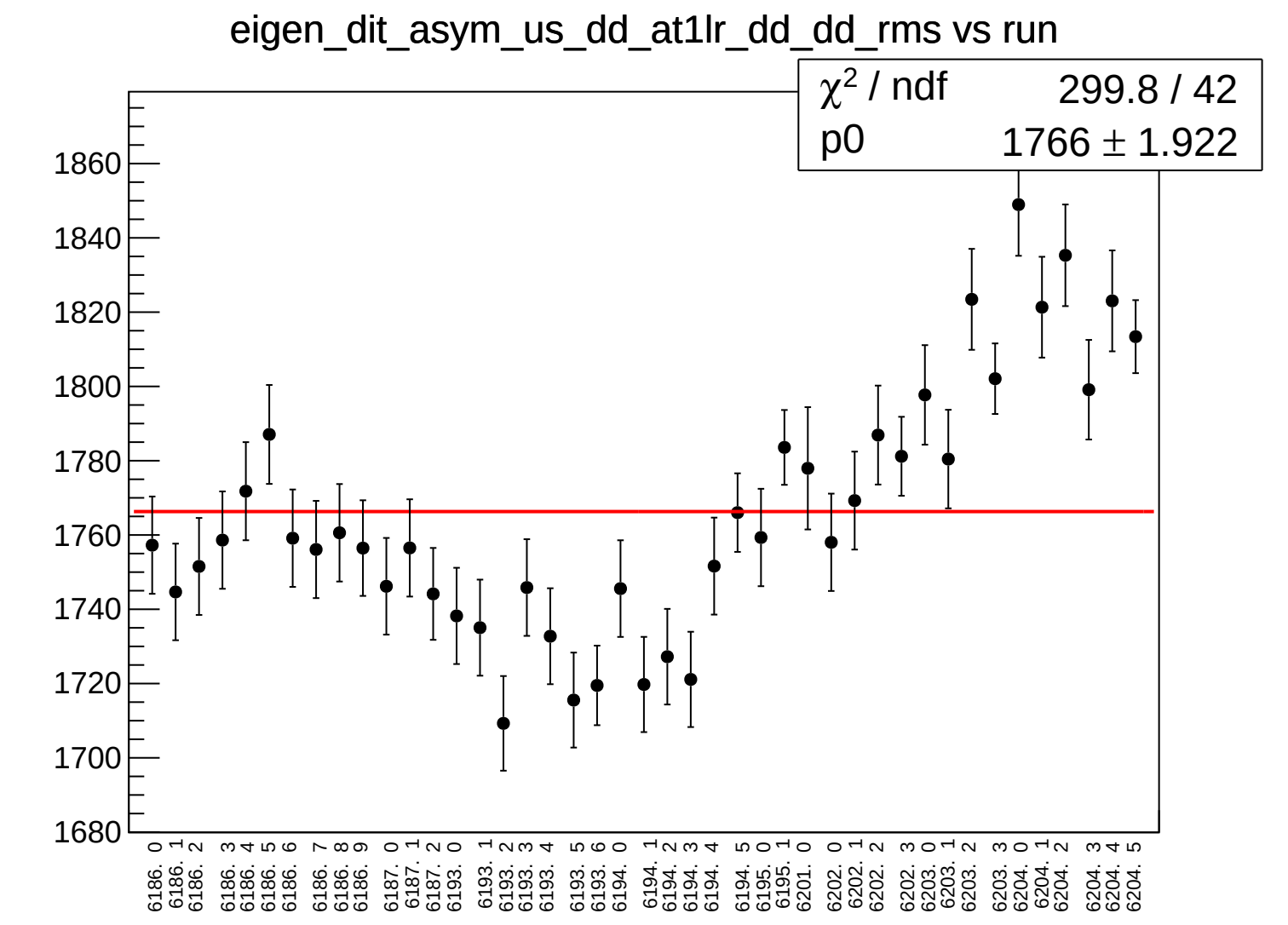

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 52.66 / 42
p0 −1235 ± 2717
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −106.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03616
Std Dev 1.106
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

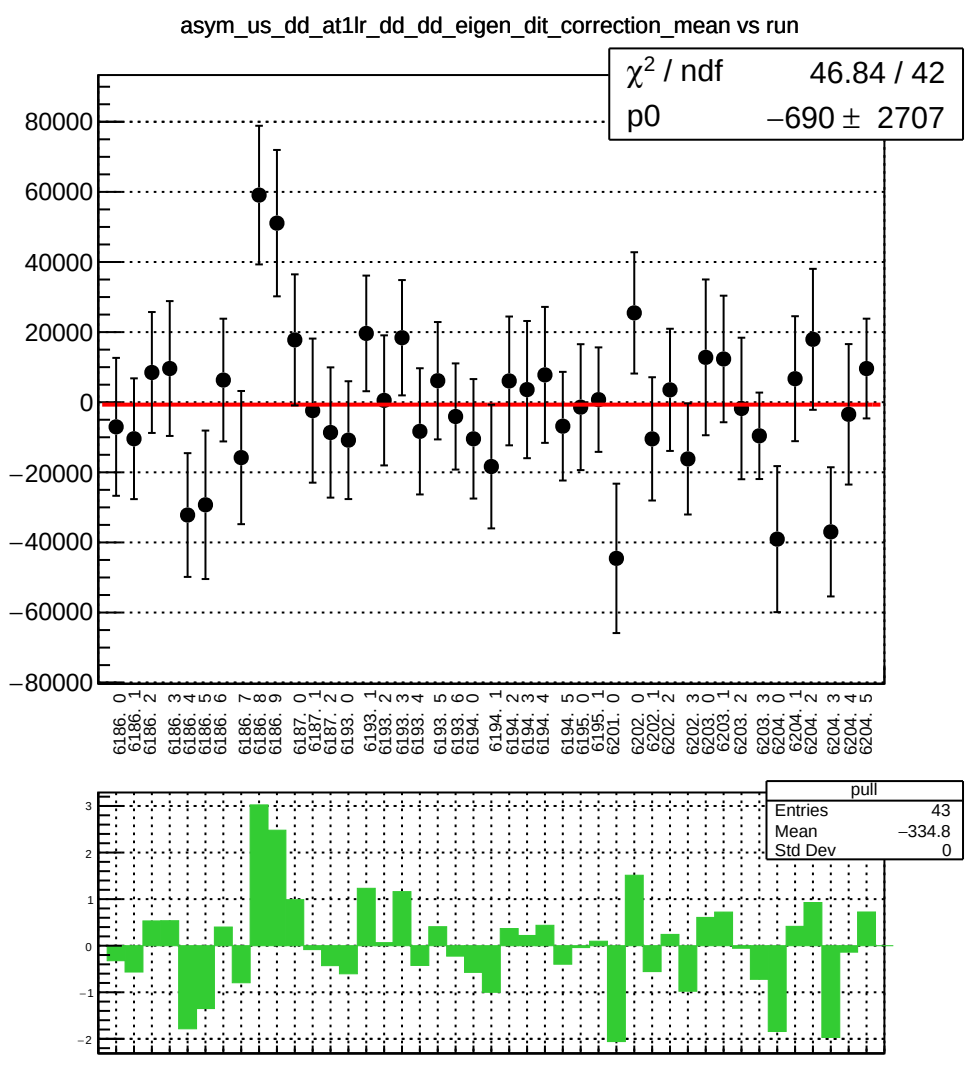

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 299.8 / 42
p0 1766 ± 1.922
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

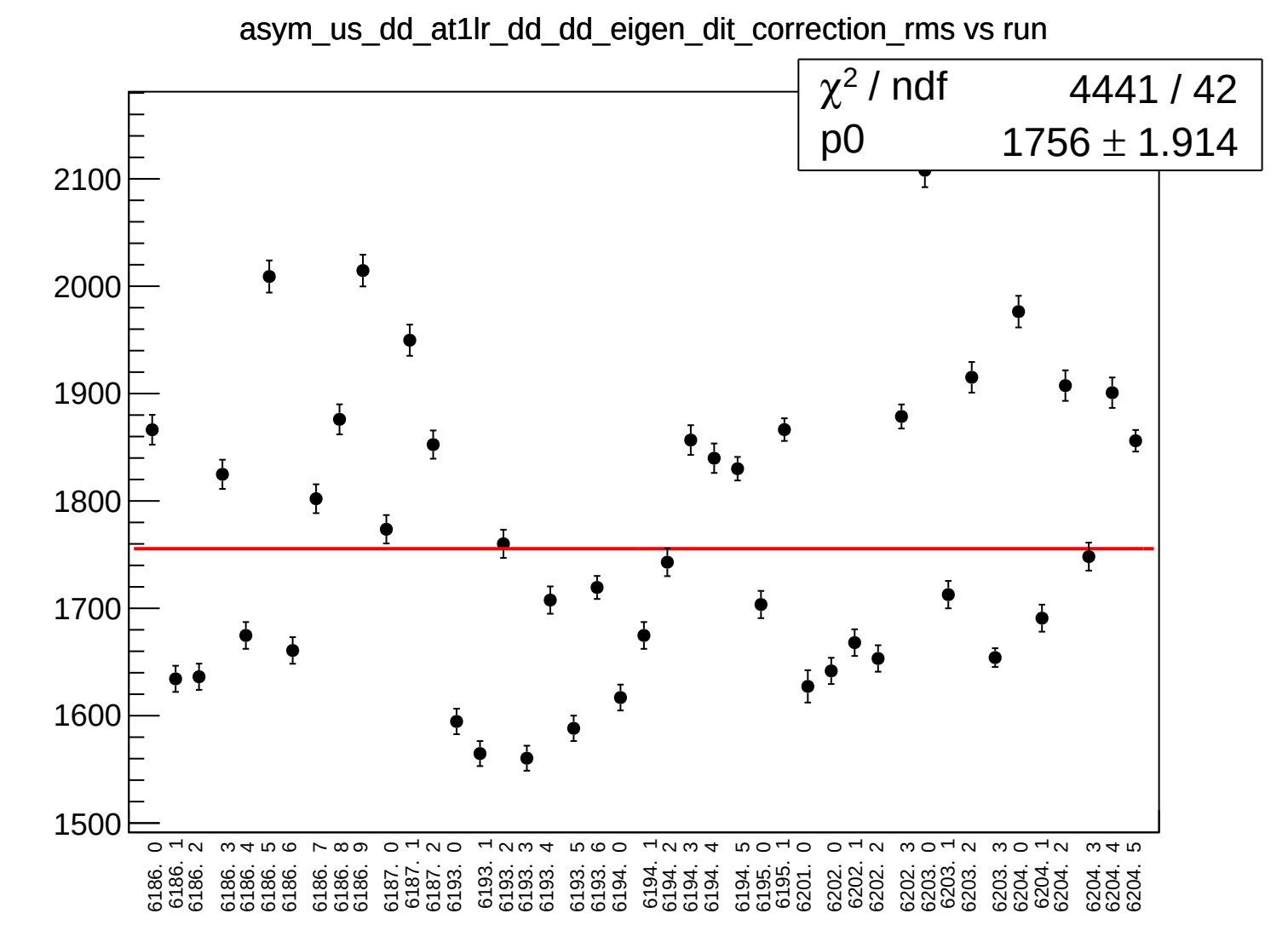

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 46.84 / 42
p0 −690 ± 2707
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −334.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.004486
Std Dev 1.044
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

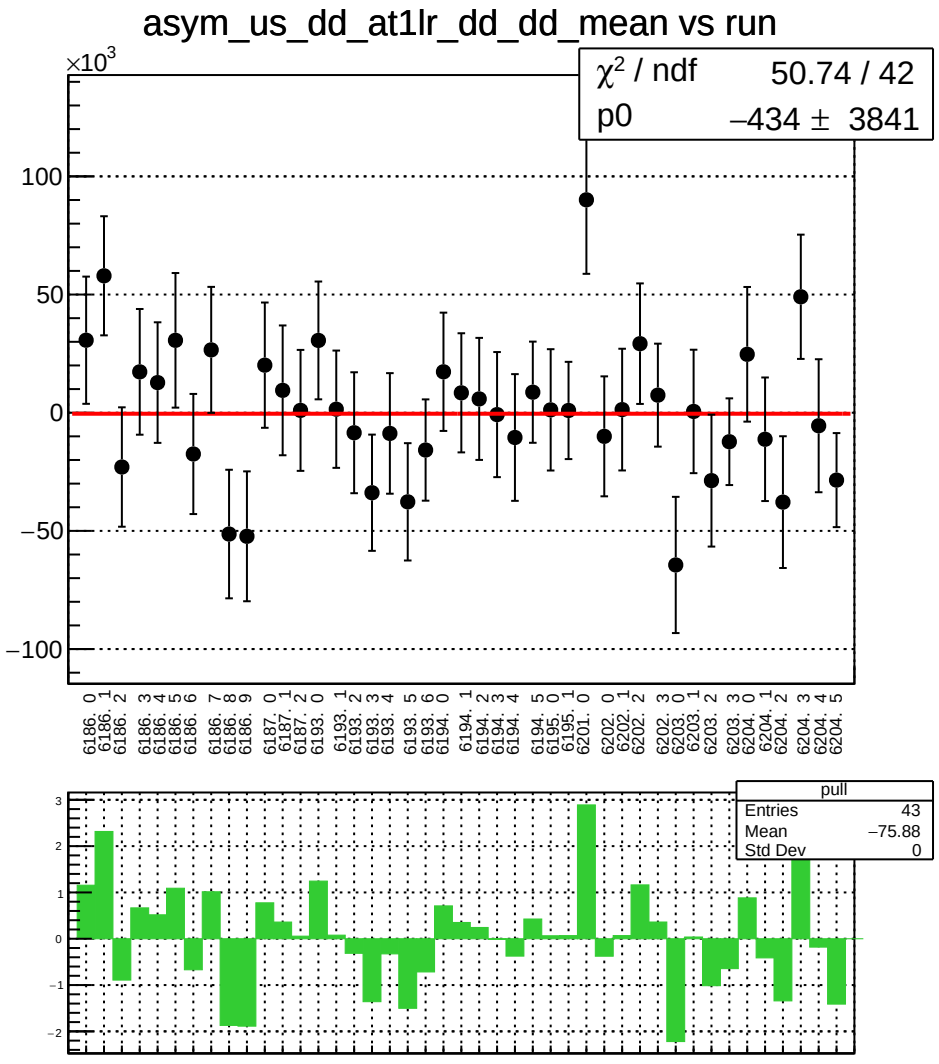

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 4441 / 42
p0 1756 ± 1.914
2100
2000
1900
1800
1700
1600
1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

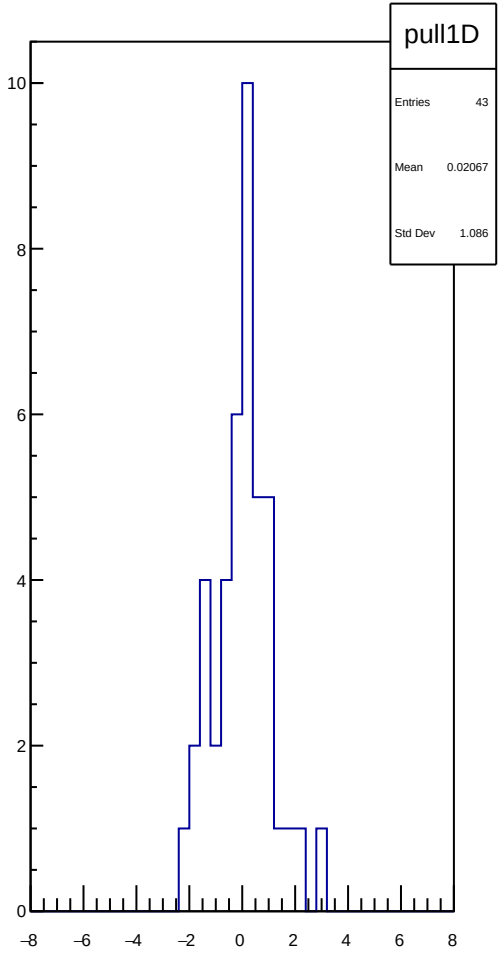

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 52.66 / 42
p0 −1235 ± 2717
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −106.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03616
Std Dev 1.106
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

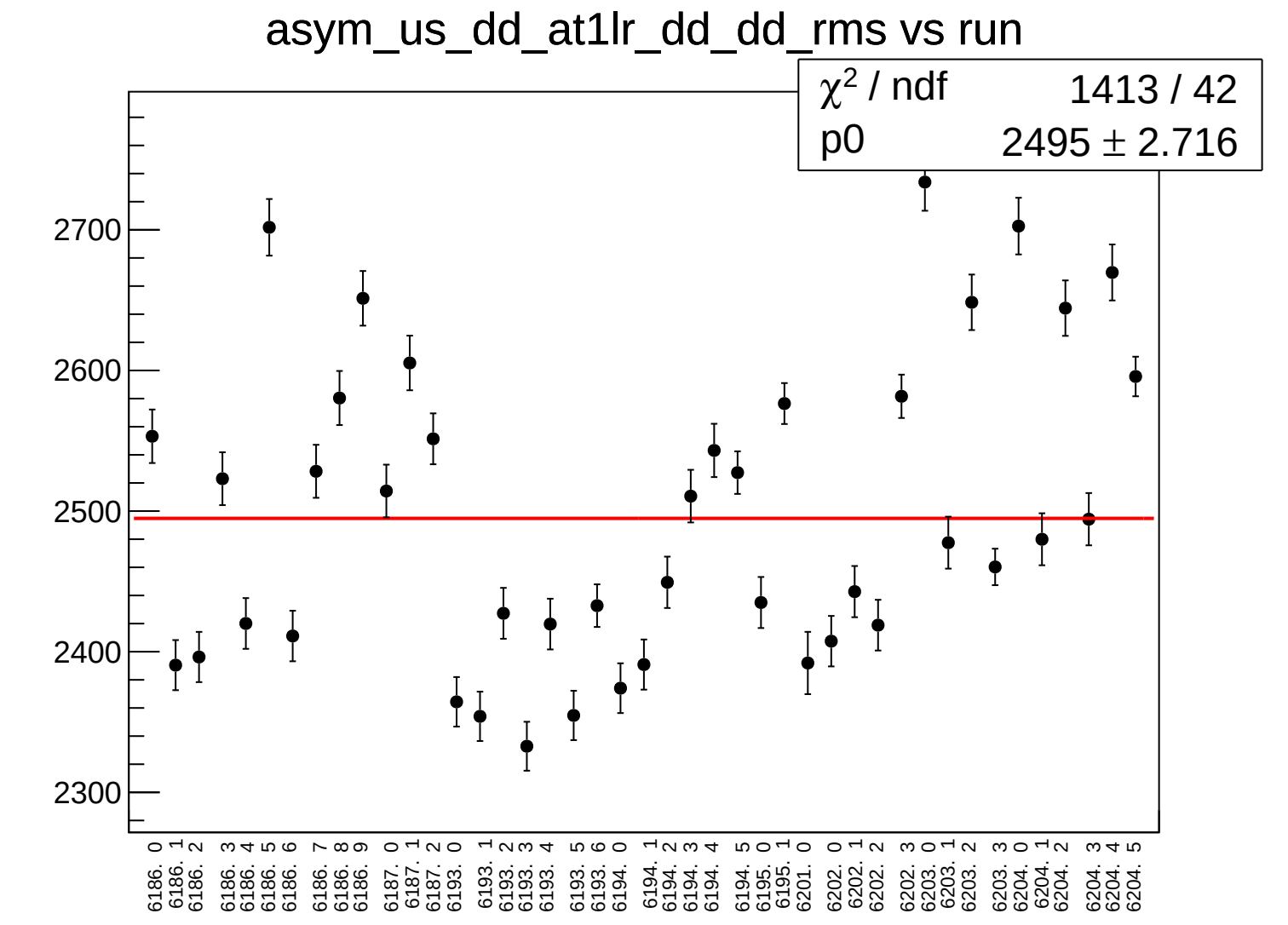

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 299.8 / 42
p0 1766 ± 1.922
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

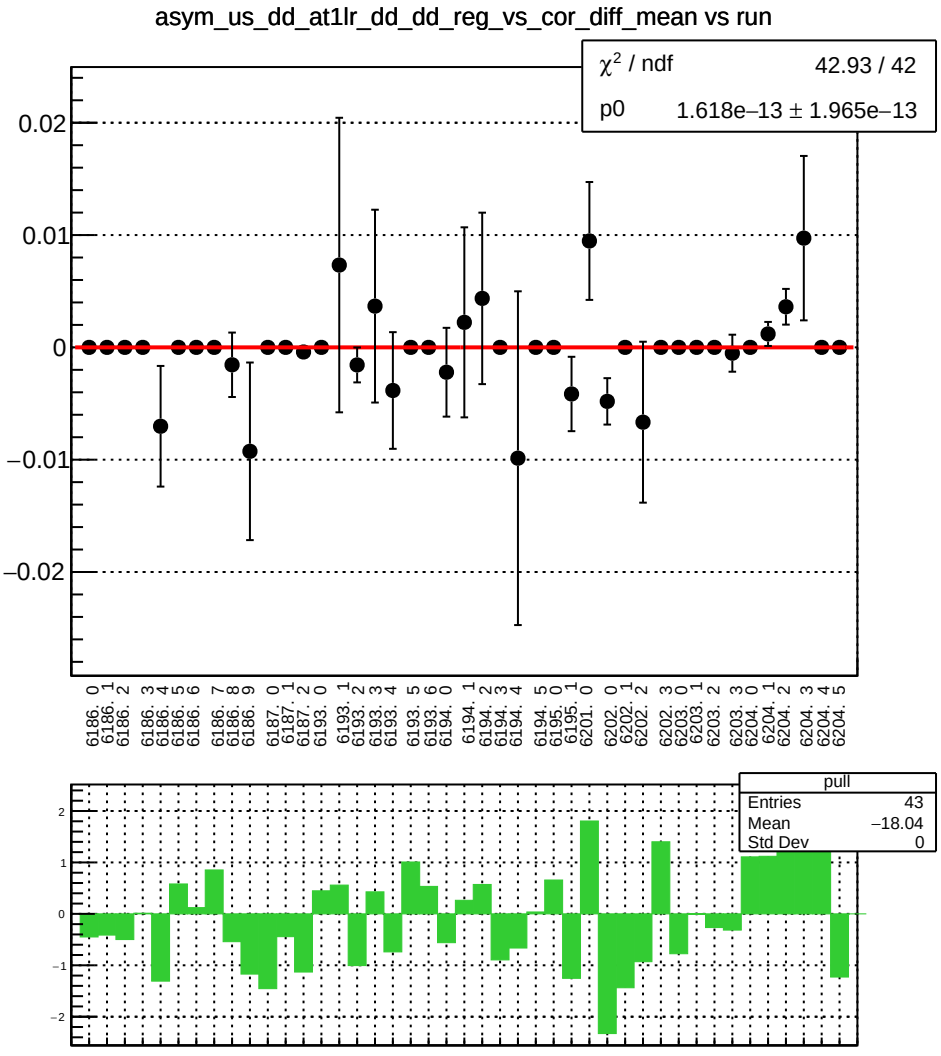

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 46.84 / 42
p0 −690 ± 2707
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −334.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.004486
Std Dev 1.044
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

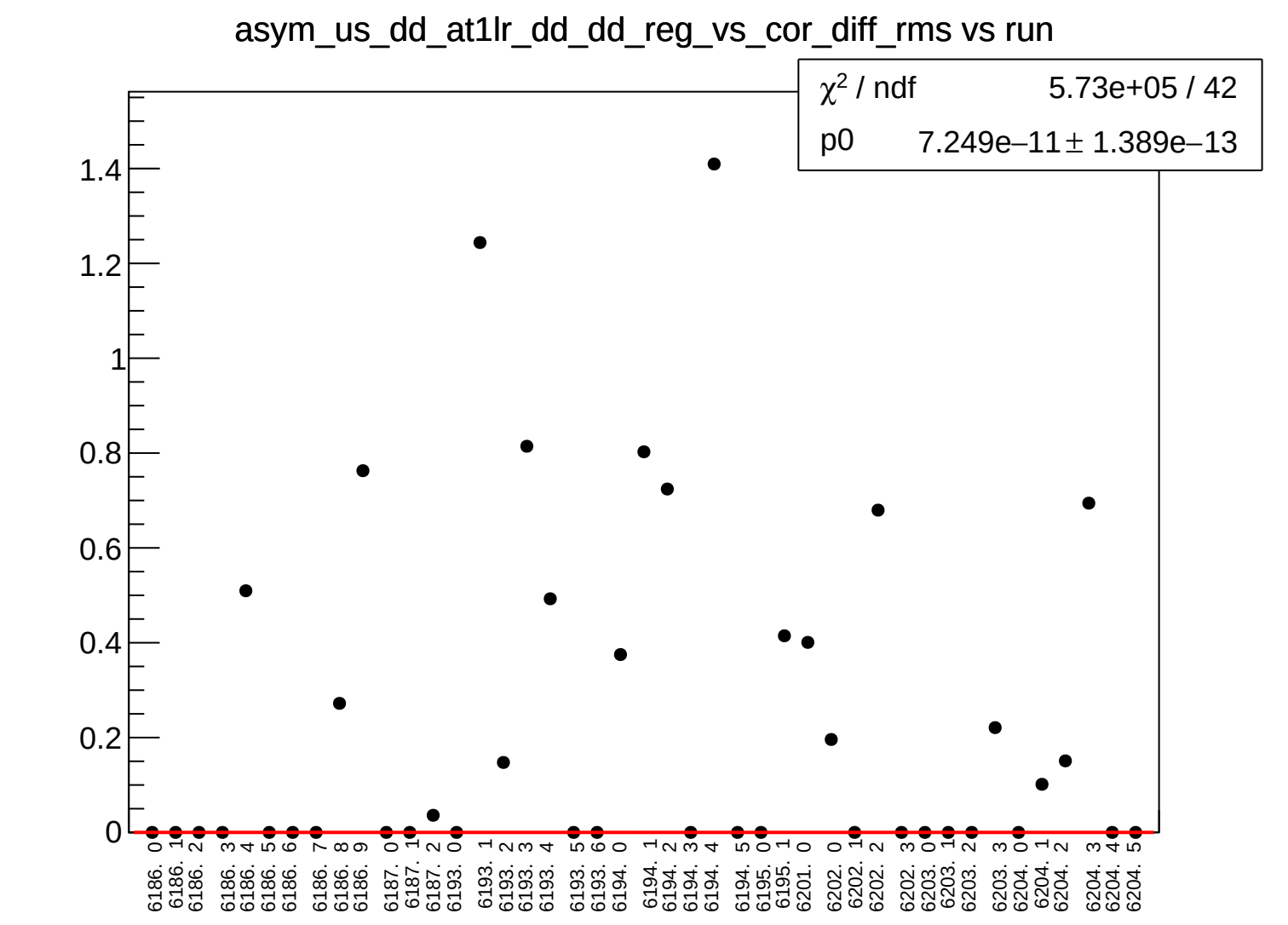

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4441 / 42
p0 1756 ± 1.914
2100
2000
1900
1800
1700
1600
1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

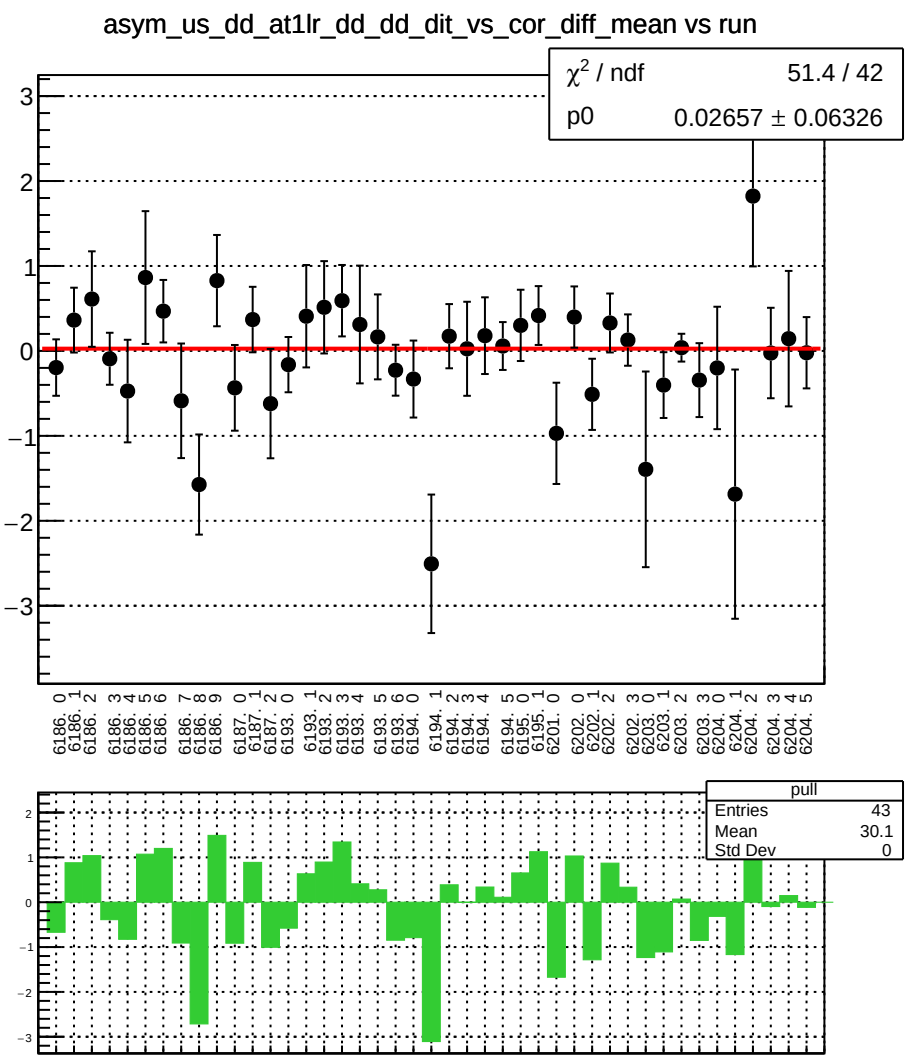

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 50.74 / 42
p0 –434 ± 3841
×10³
100
50
0
–50
–100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean –75.88
Std Dev 0
3
2
1
0
–1
–2

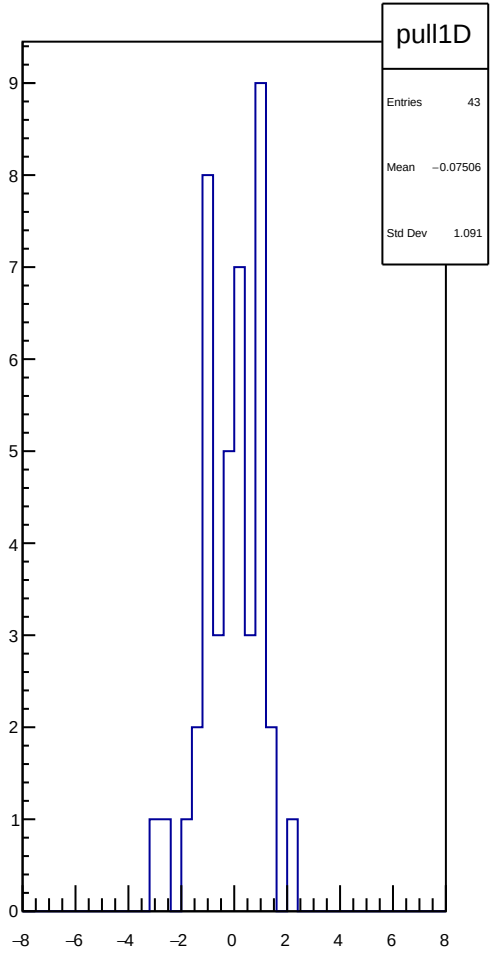

pull1D
Entries 43
Mean 0.02067
Std Dev 1.086
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

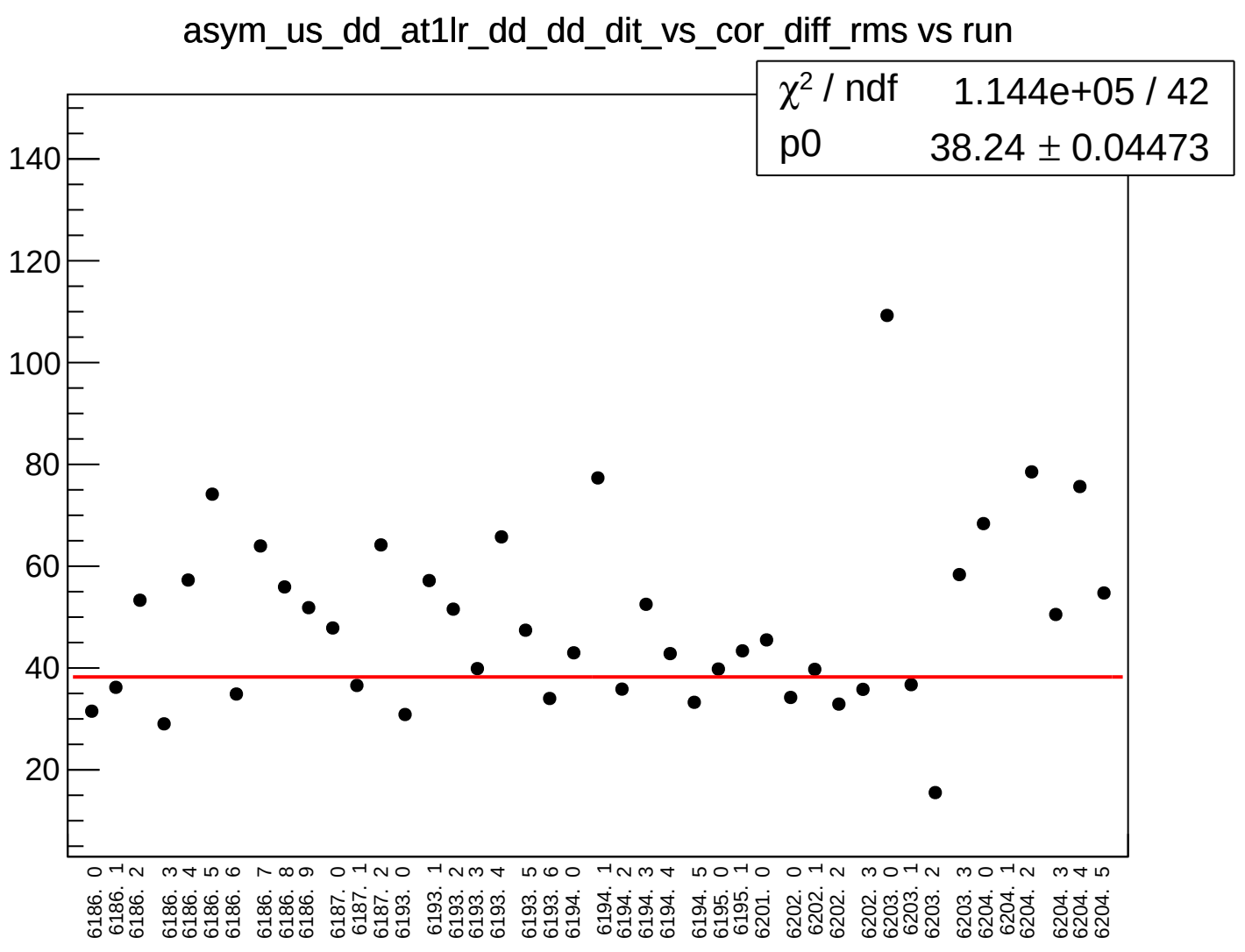

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1413 / 42
p0 2495 ± 2.716
2700
2600
2500
2400
2300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

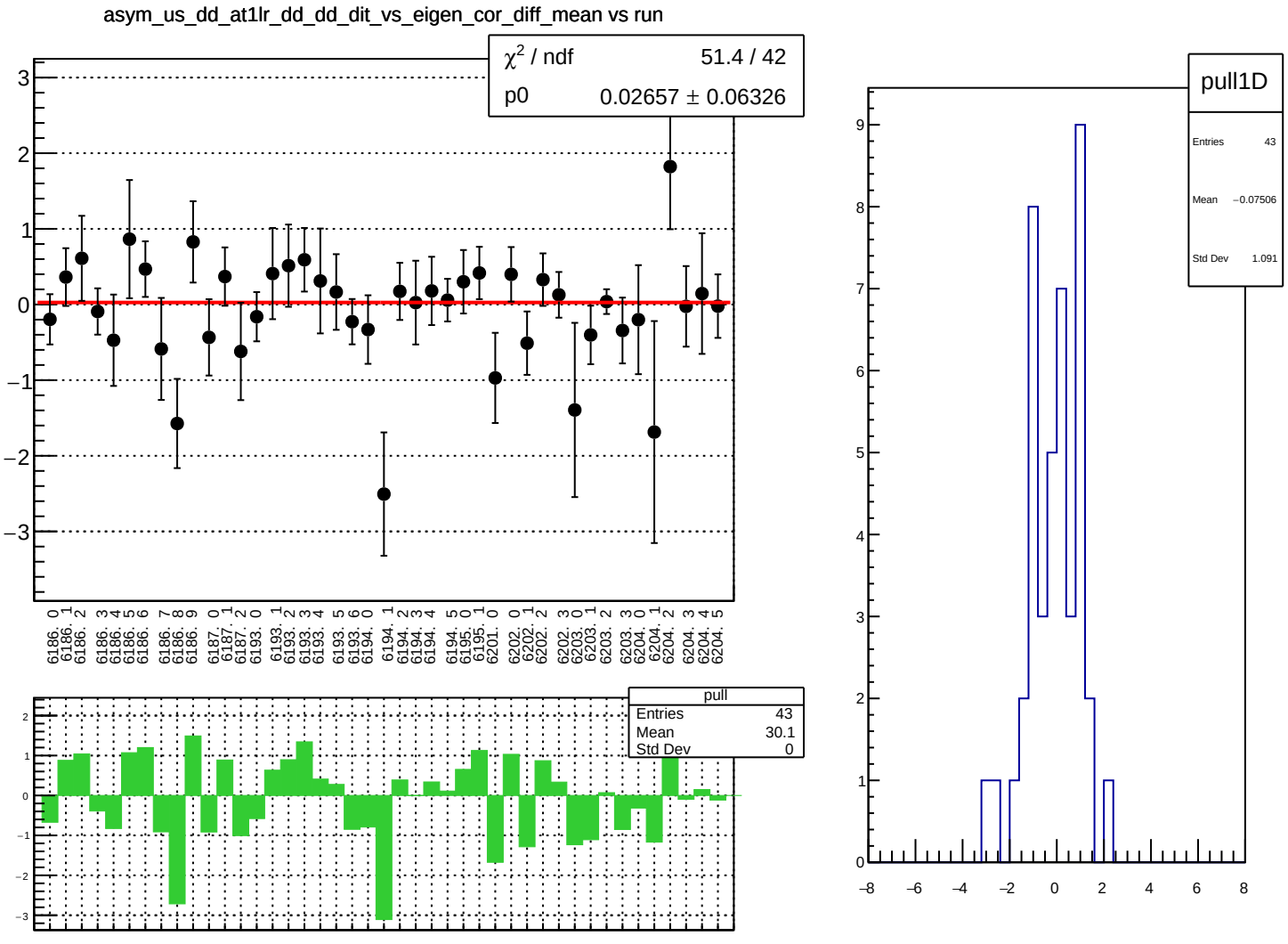

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 42.93 / 42
p0 1.618e−13 ± 1.965e−13
0.02
0.01
0
−0.01
−0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −18.04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.08075
Std Dev 0.9959
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

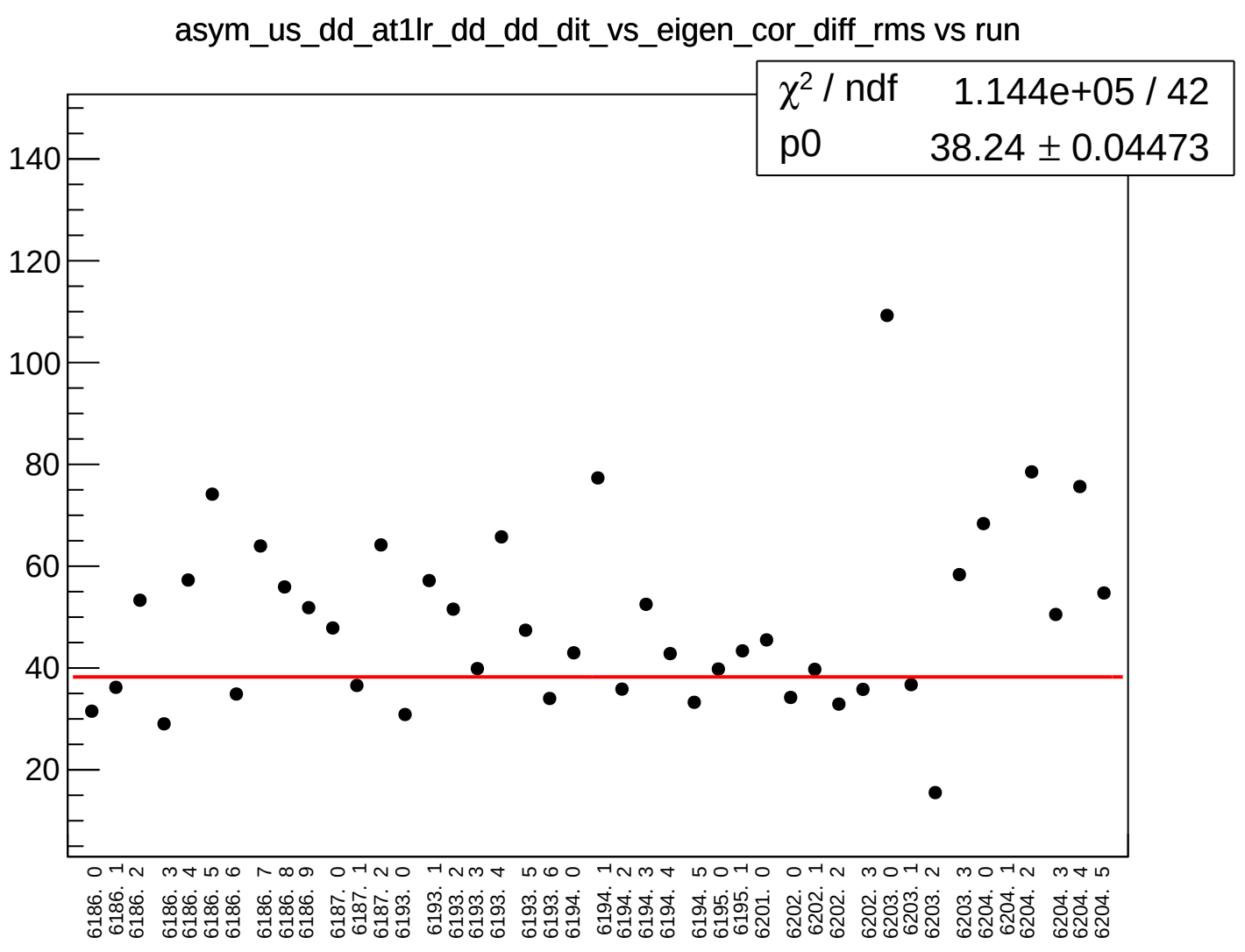

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.73e+05 / 42
p0 7.249e−11 ± 1.389e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

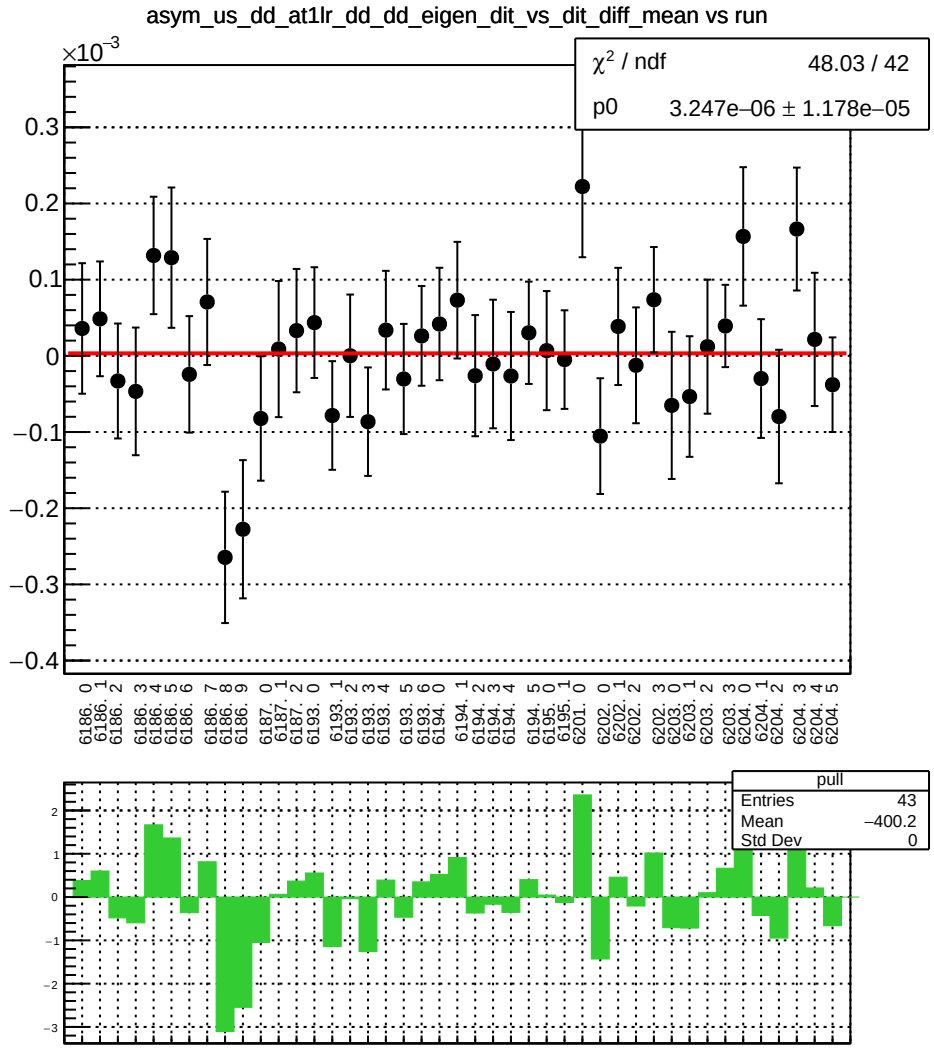

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 51.4 / 42
p0 0.02657 ± 0.06326
pull
Entries 43
Mean 30.1
Std Dev 0

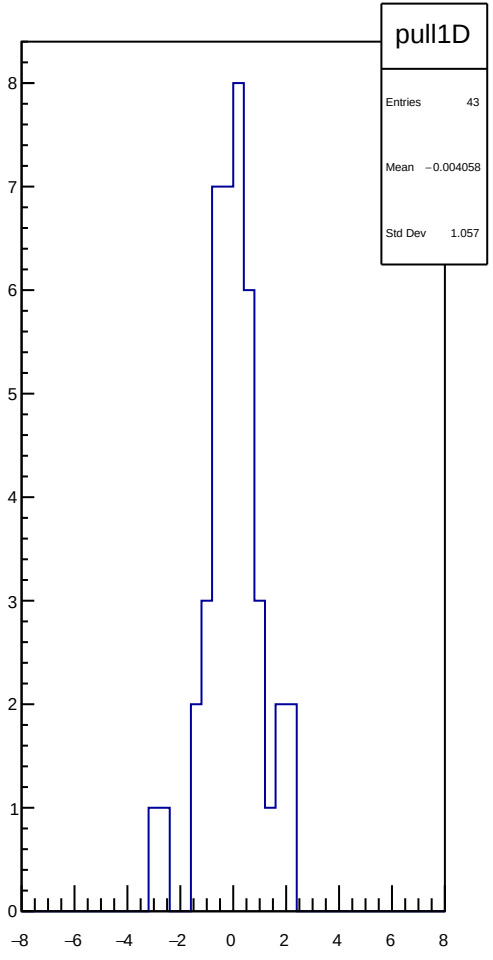

pull1D
Entries 43
Mean −0.07506
Std Dev 1.091

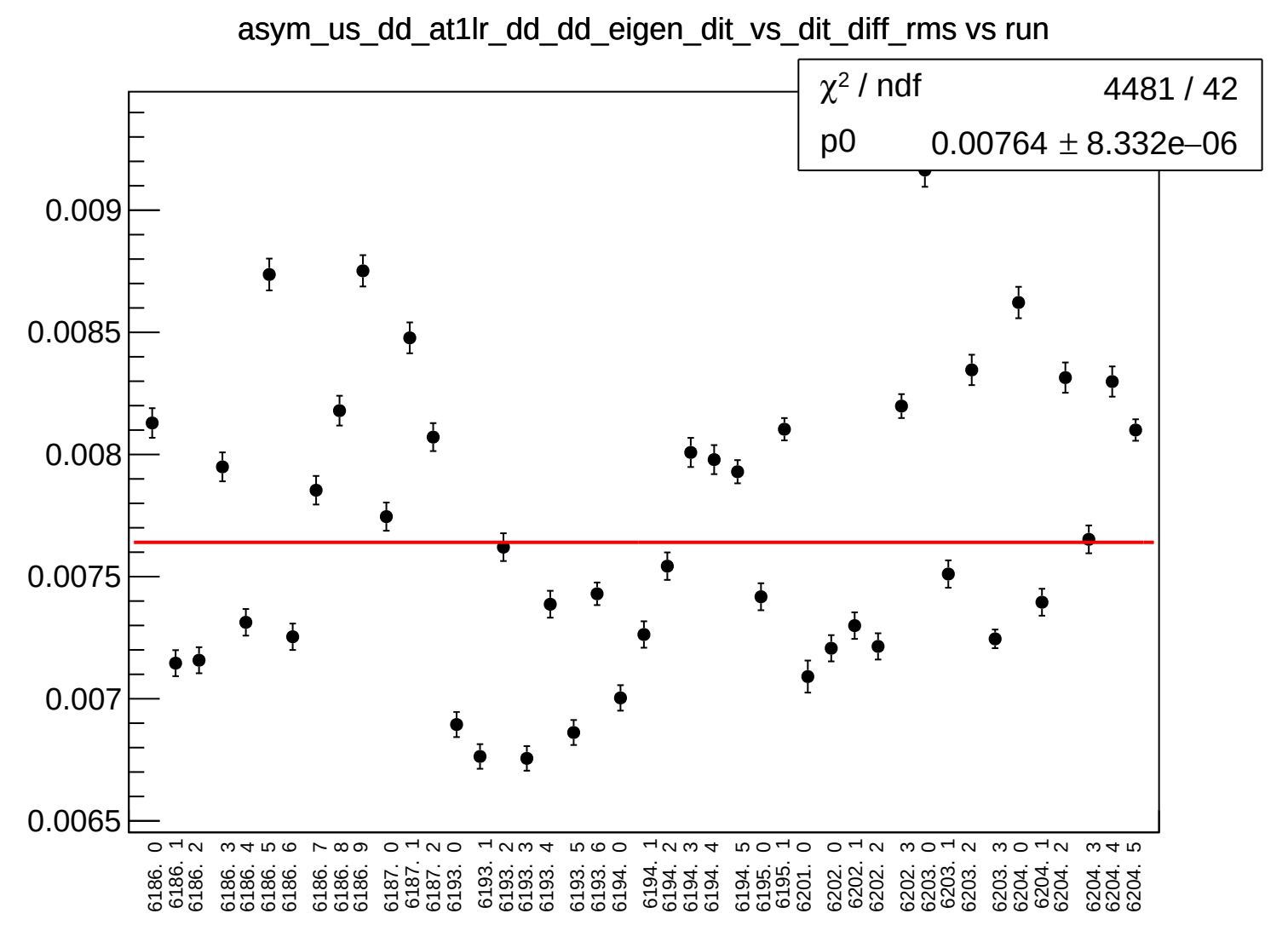

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.144e+05 / 42
p0 38.24 ± 0.04473
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

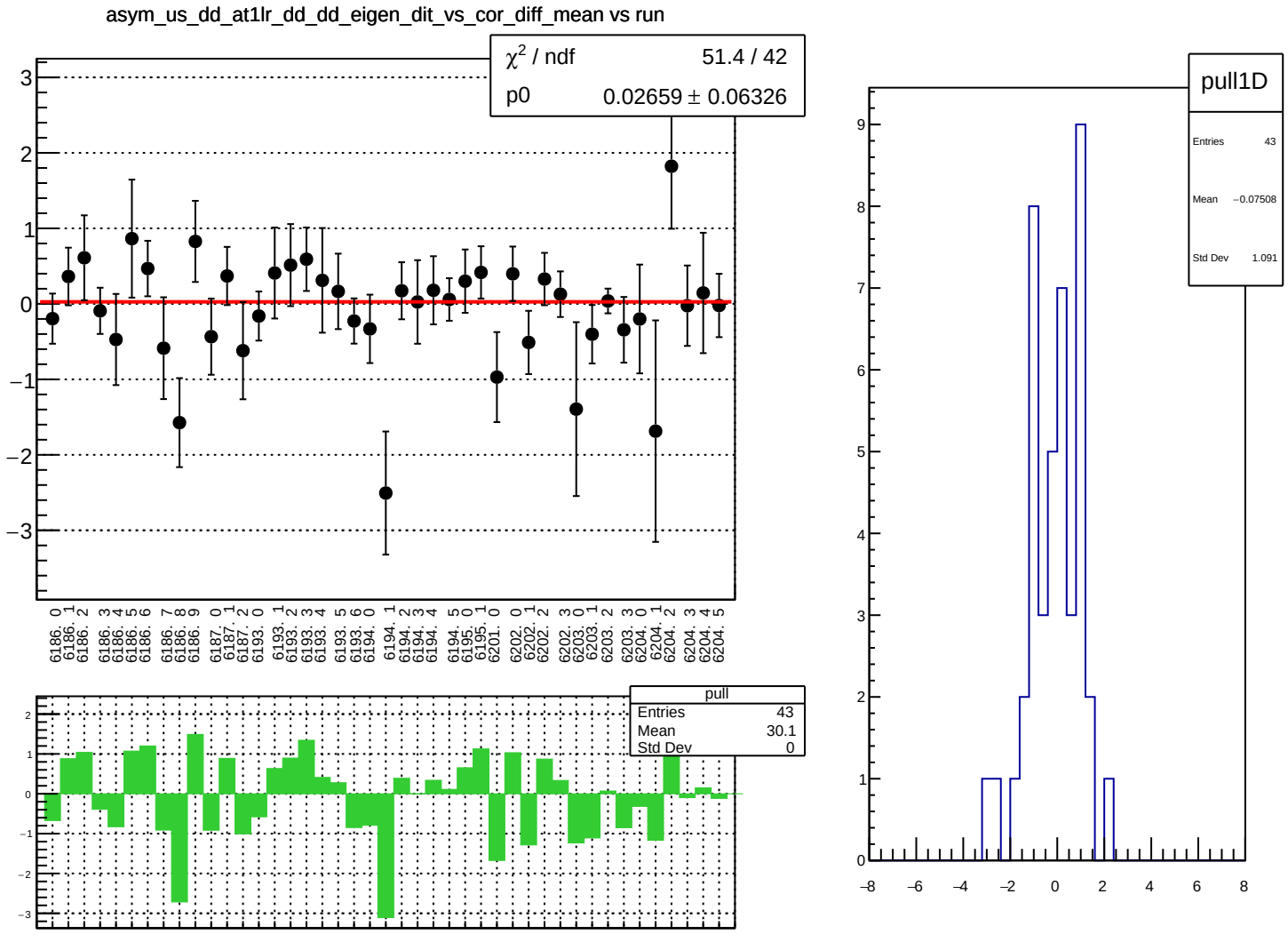

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.4 / 42
p0 0.02657 ± 0.06326
pull
Entries 43
Mean 30.1
Std Dev 0
pull1D
Entries 43
Mean −0.07506
Std Dev 1.091

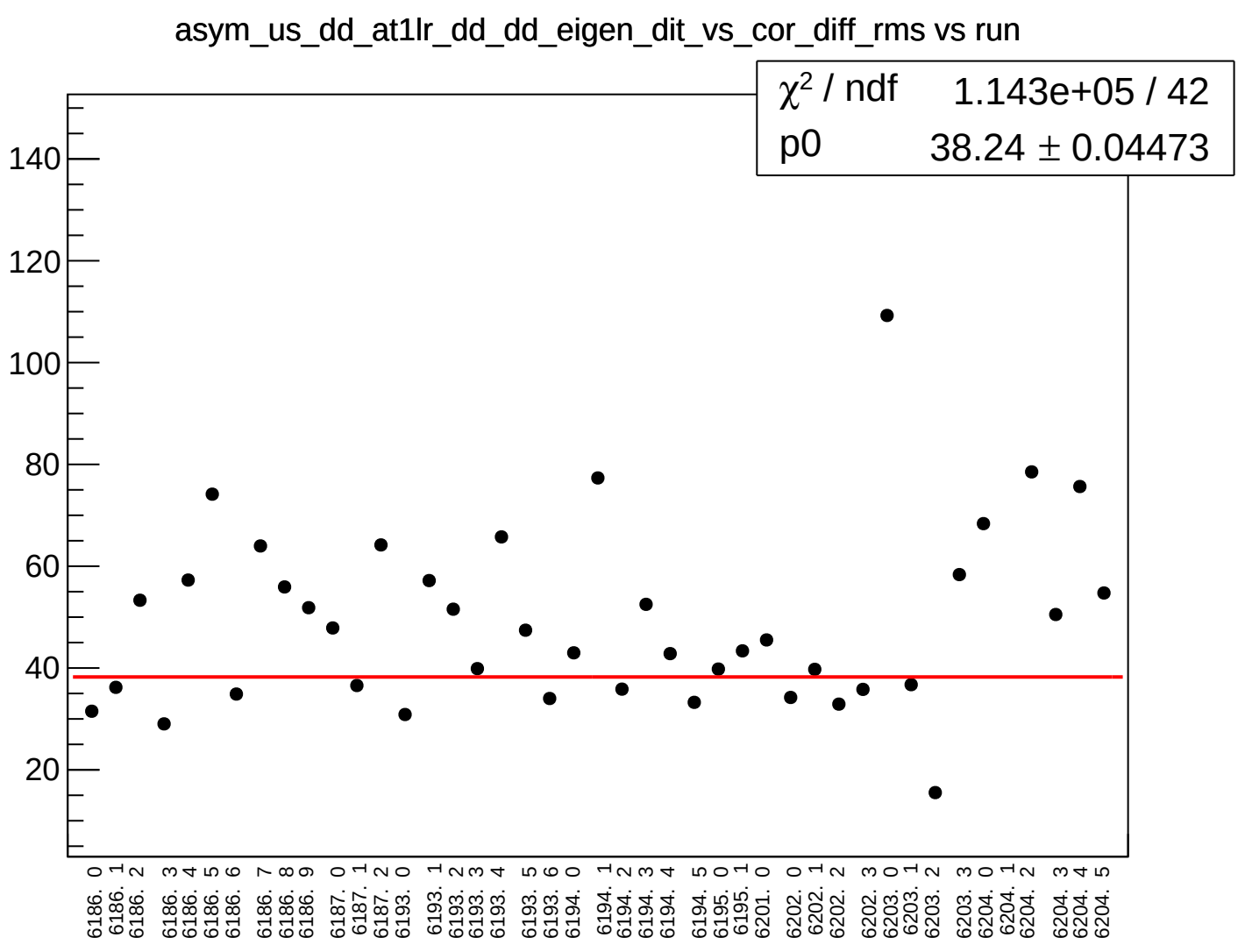

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.144e+05 / 42
p0 38.24 ± 0.04473
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

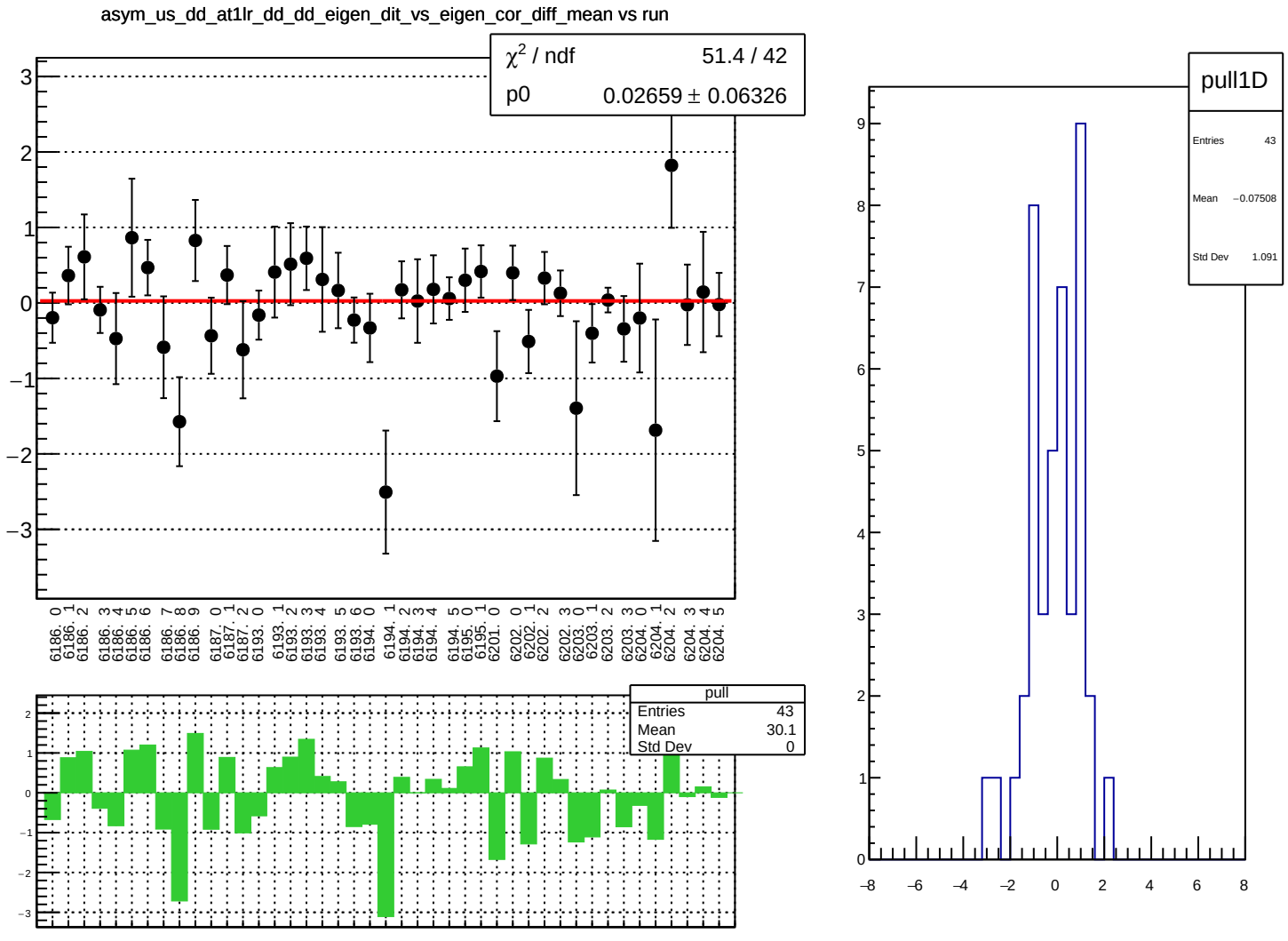

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.03 / 42
p0 3.247e−06 ± 1.178e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −400.2
Std Dev 0
2
1
0
−1
−2
−3

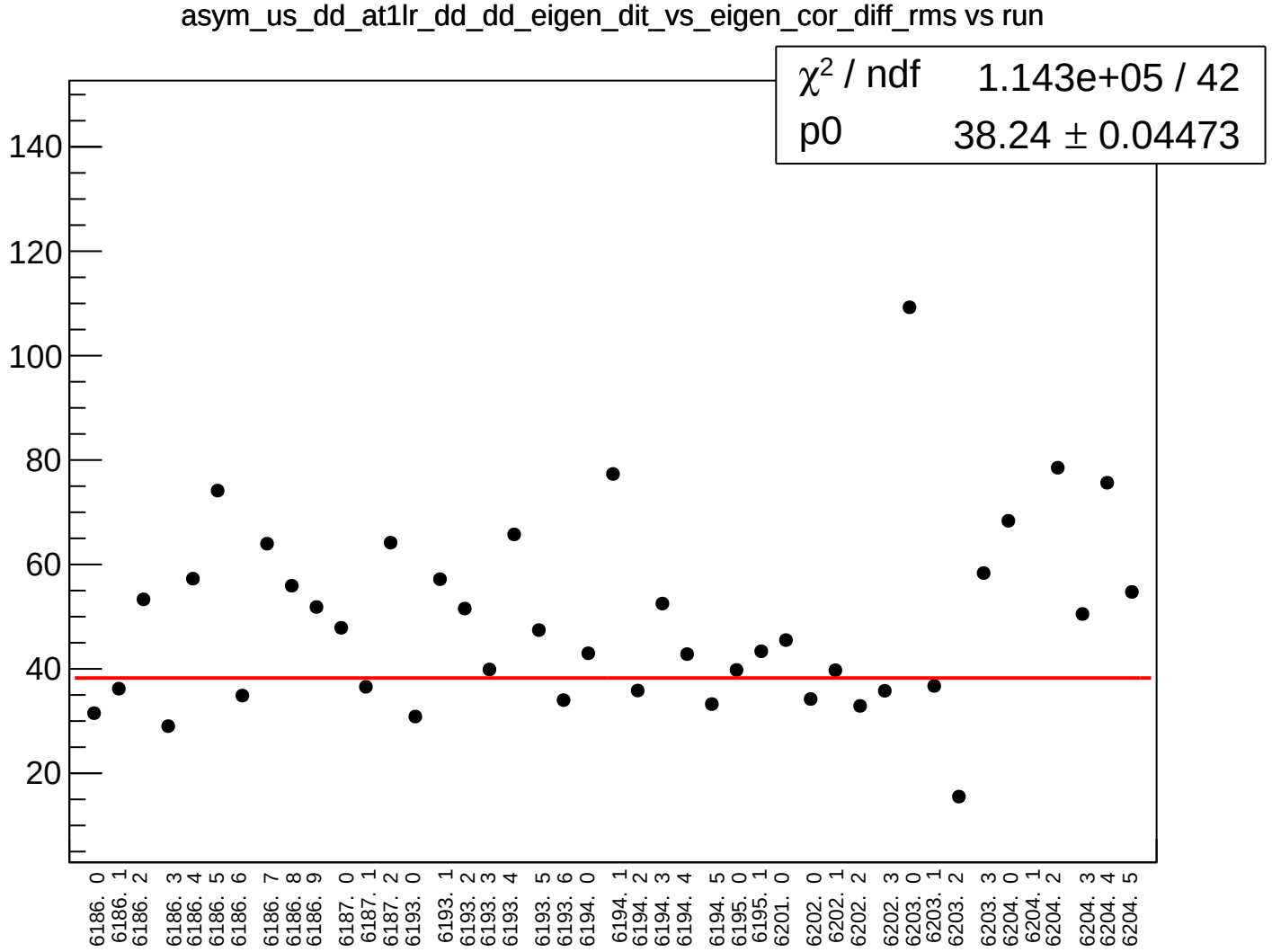

pull1D
Entries 43
Mean −0.004058
Std Dev 1.057
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

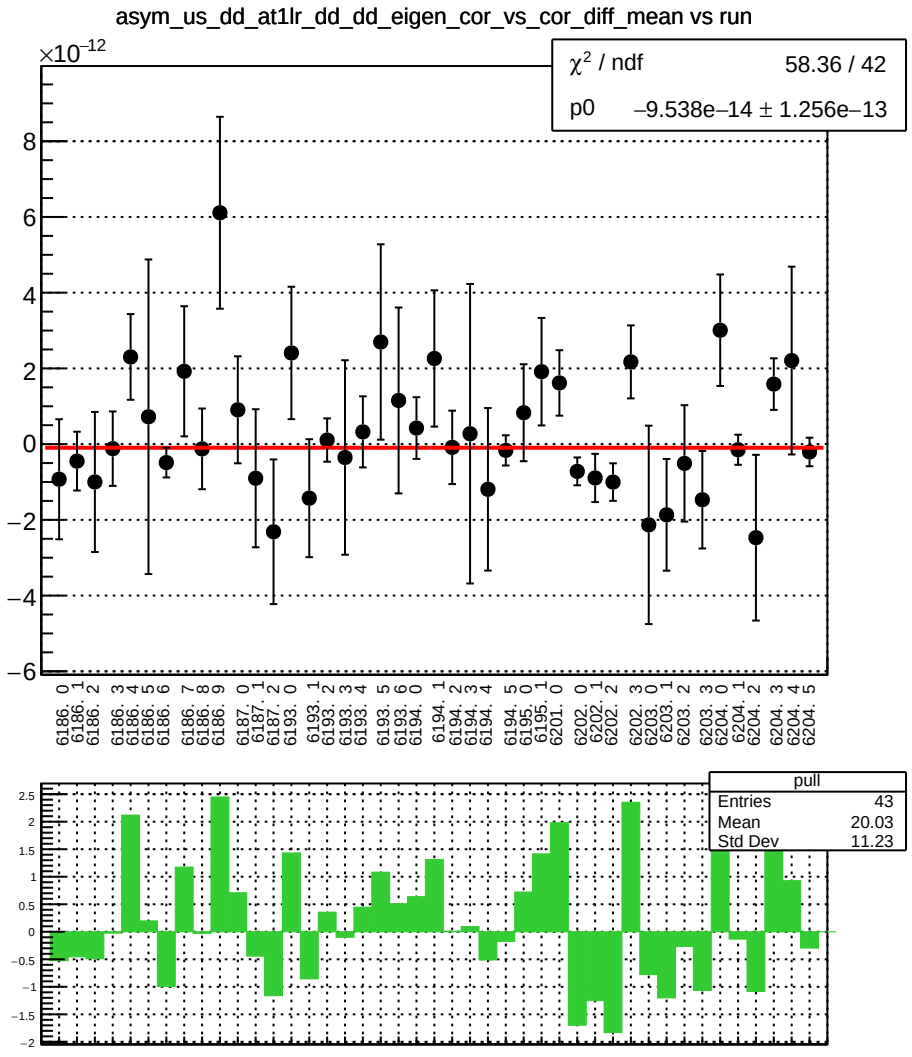

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4481 / 42
p0 0.00764 ± 8.332e–06
0.009
0.0085
0.008
0.0075
0.007
0.0065
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

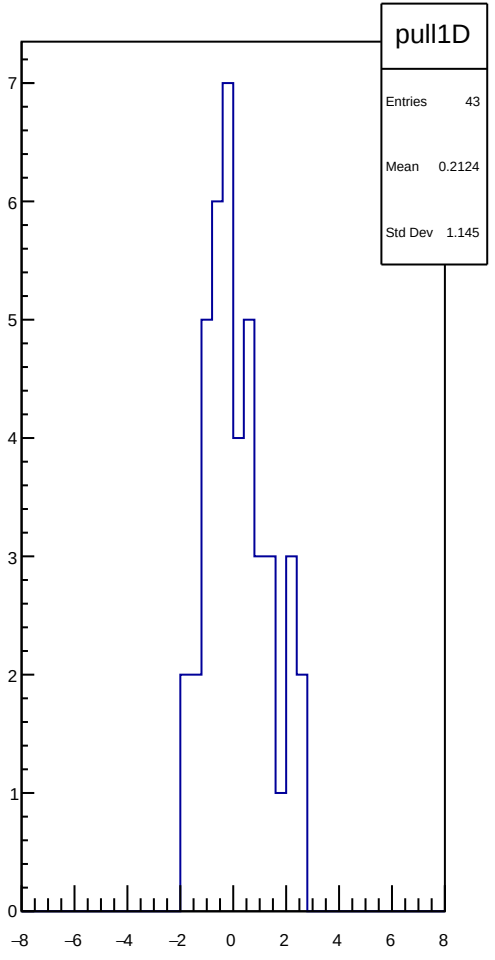

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.4 / 42
p0 0.02659 ± 0.06326
pull
Entries 43
Mean 30.1
Std Dev 0
pull1D
Entries 43
Mean −0.07508
Std Dev 1.091

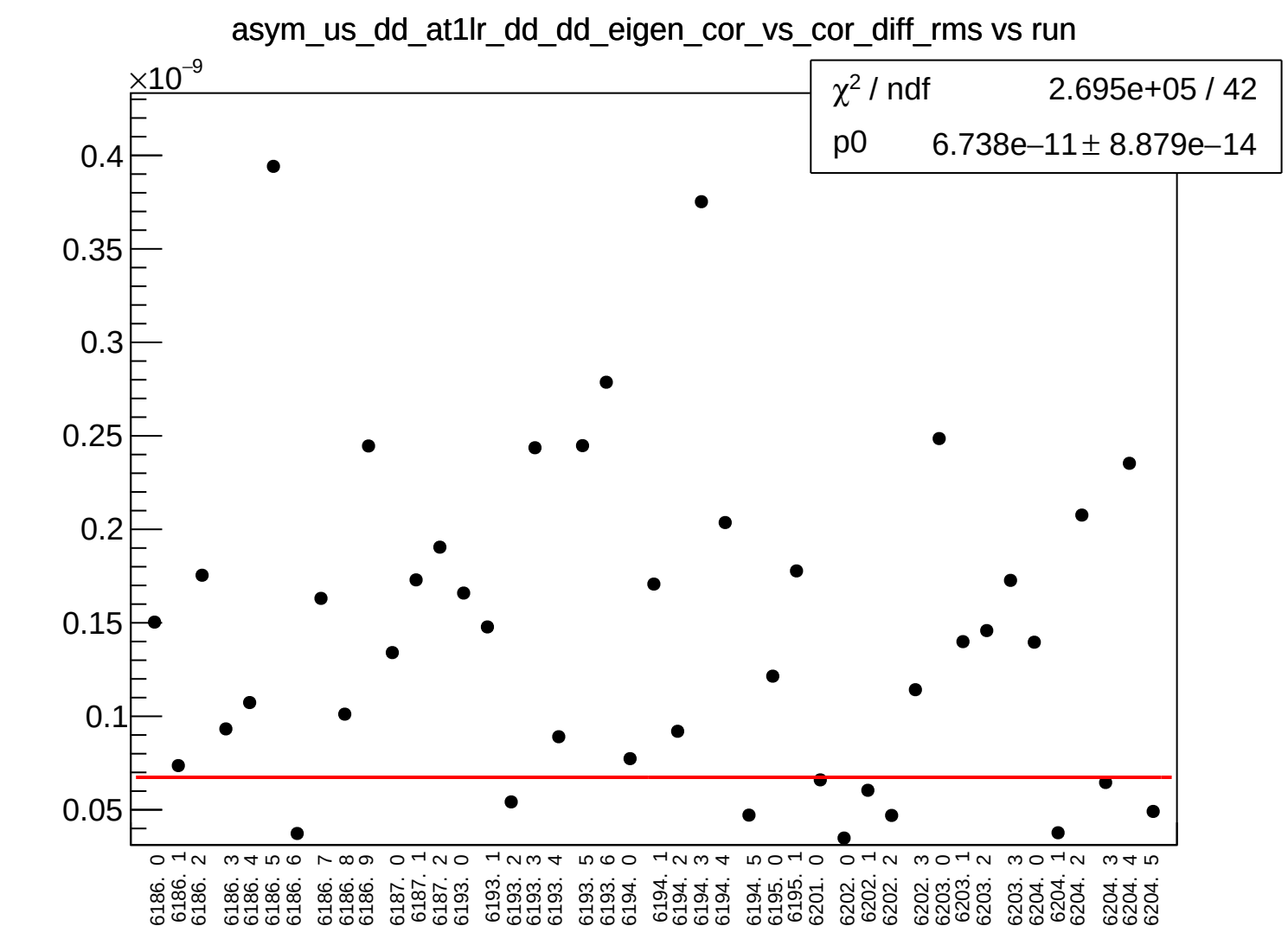

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.143e+05 / 42
p0 38.24 ± 0.04473
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

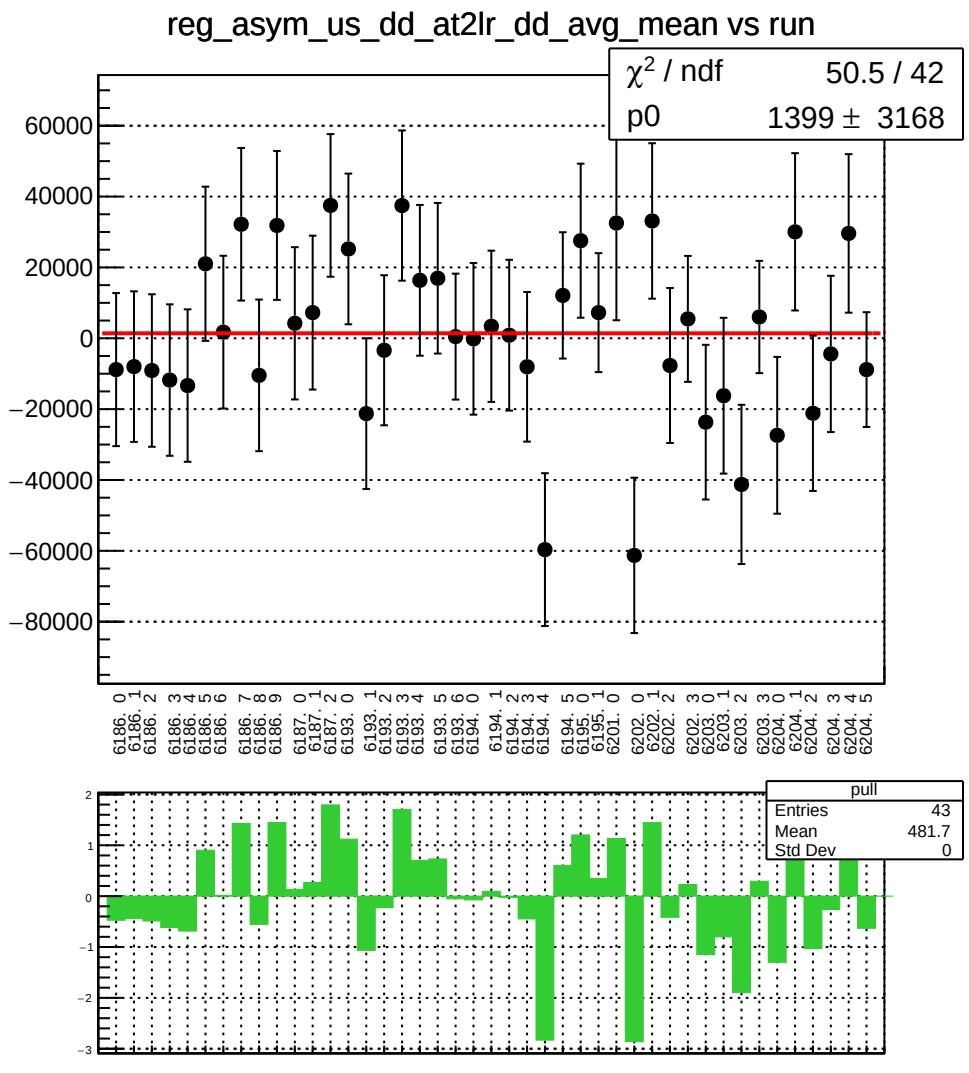

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.4 / 42
p0 0.02659 ± 0.06326
pull
Entries 43
Mean 30.1
Std Dev 0
pull1D
Entries 43
Mean −0.07508
Std Dev 1.091

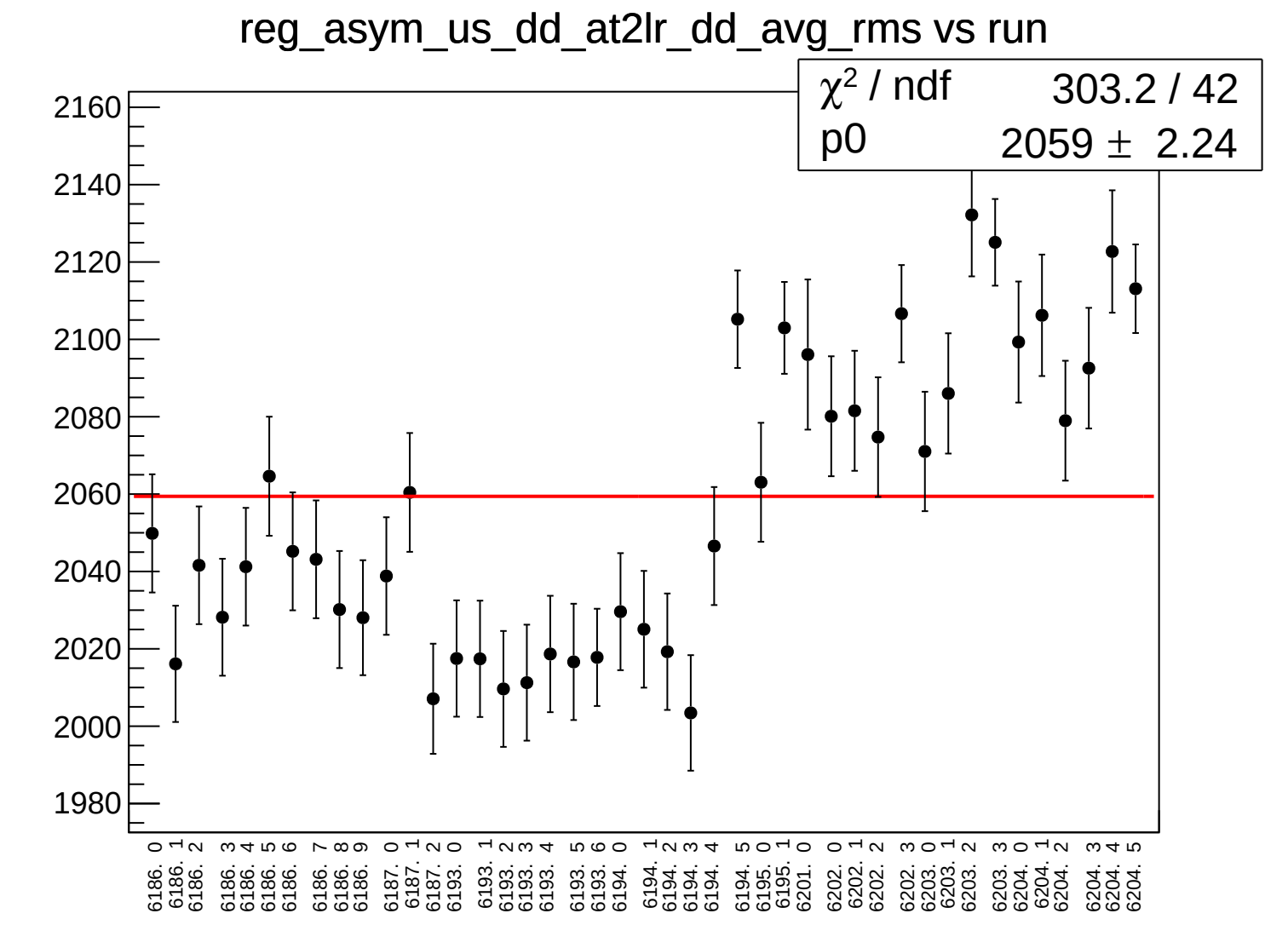

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.143e+05 / 42
p0 38.24 ± 0.04473
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

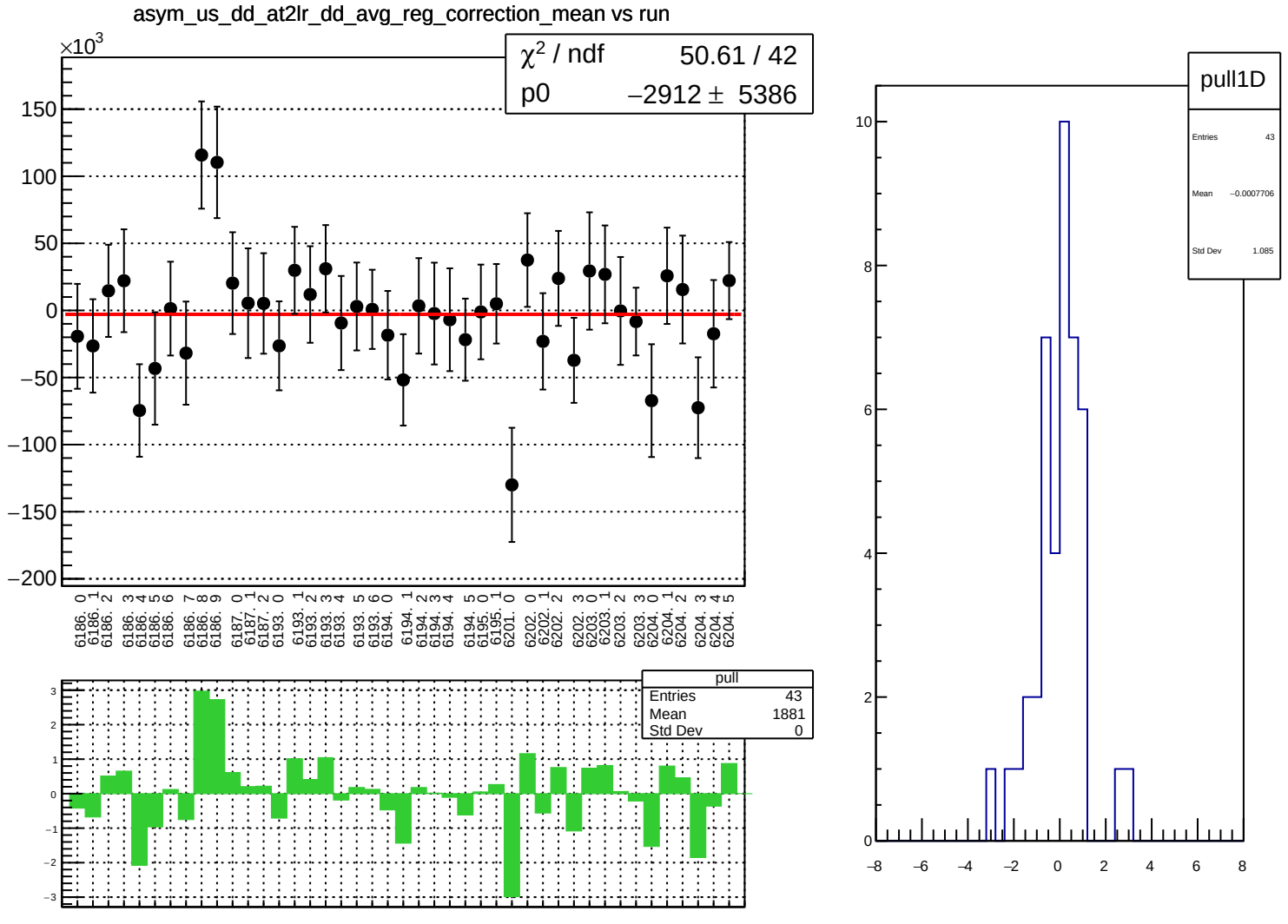

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.36 / 42
p0 −9.538e−14 ± 1.256e−13
pull
Entries 43
Mean 20.03
Std Dev 11.23

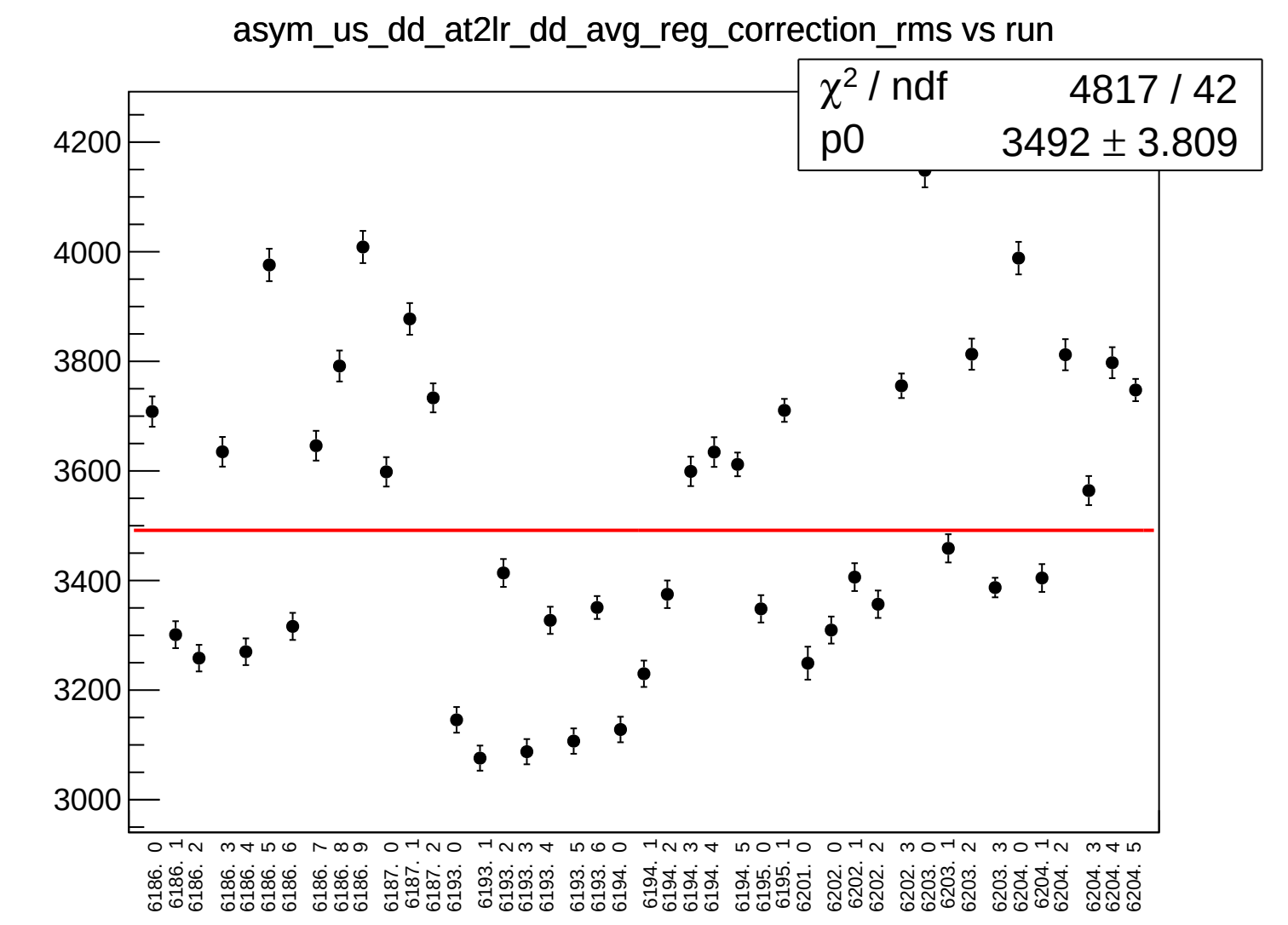

pull1D
Entries 43
Mean 0.2124
Std Dev 1.145

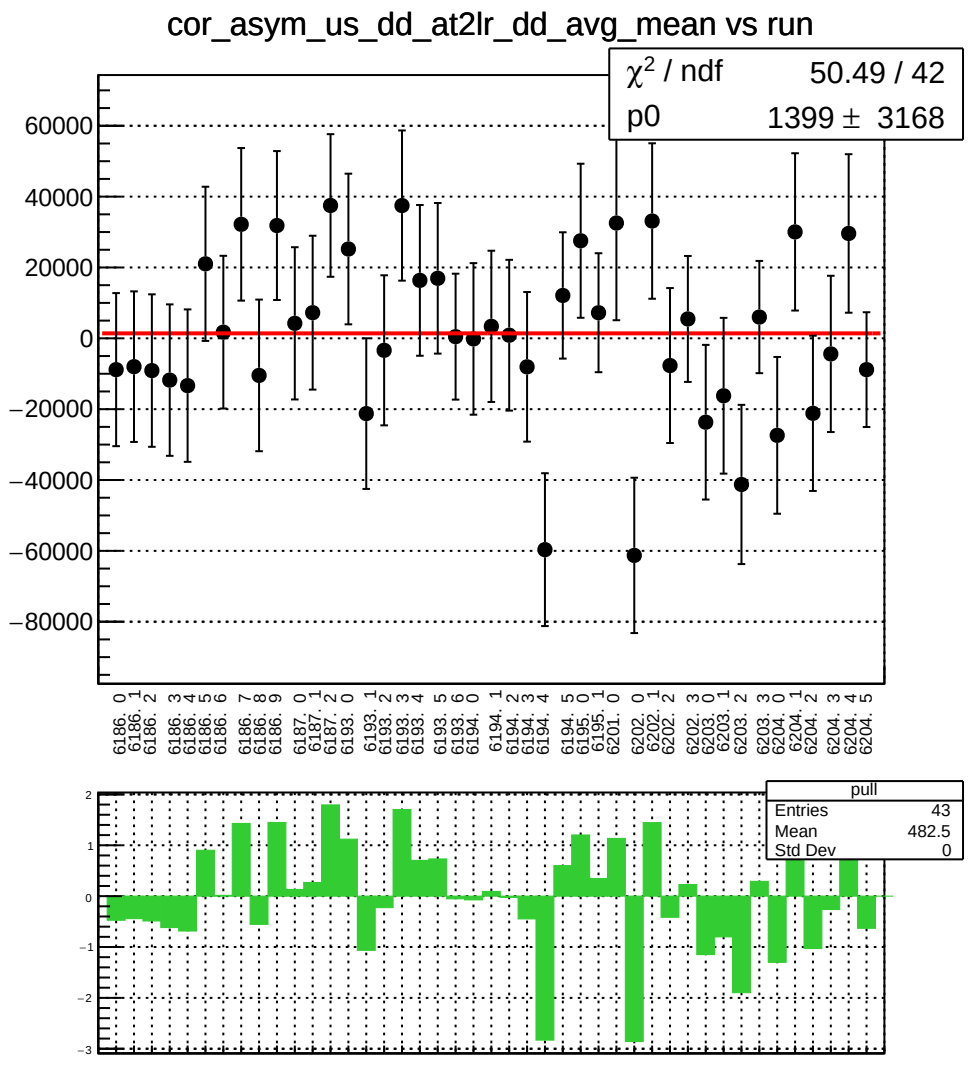

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.695e+05 / 42
p0 6.738e−11 ± 8.879e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

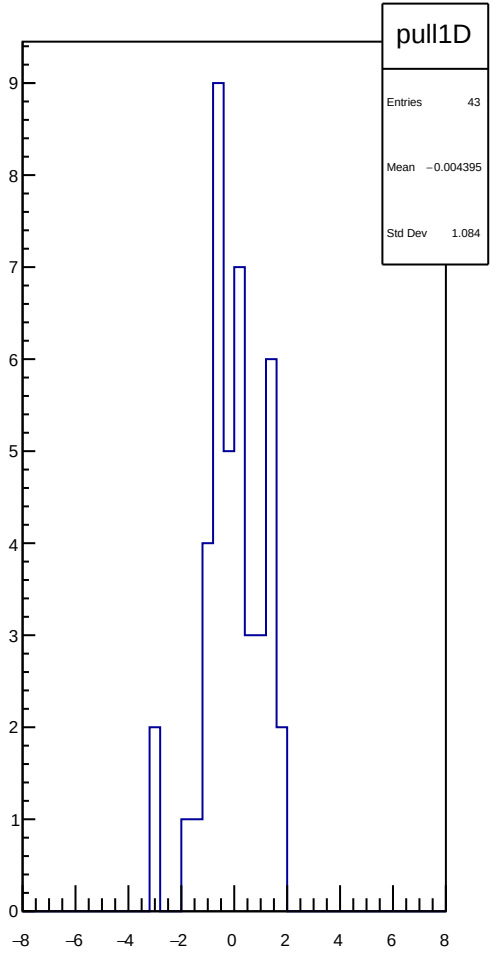

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 50.5 / 42
p0 1399 ± 3168
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 481.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.004404
Std Dev 1.084
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

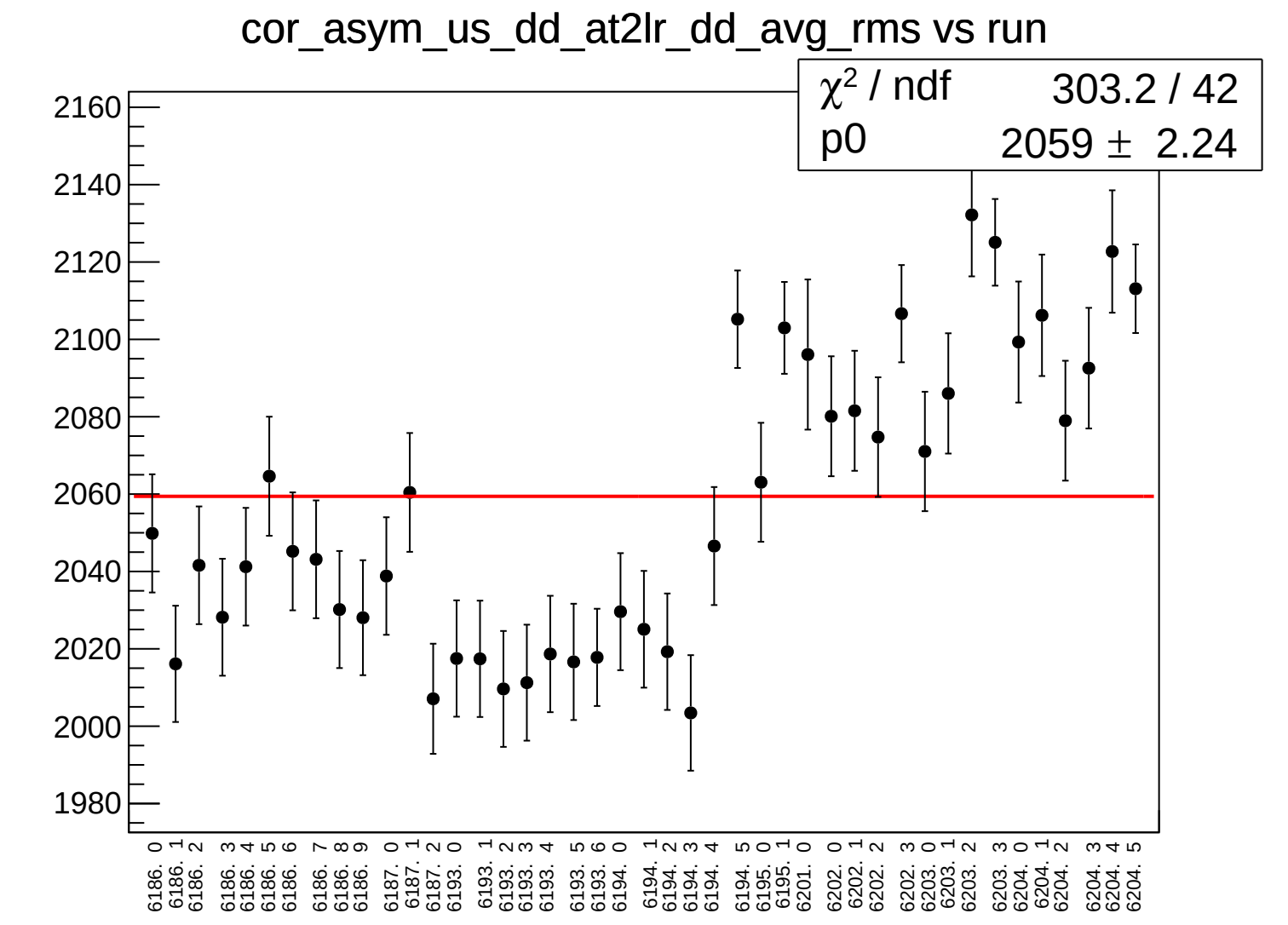

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 303.2 / 42
p0 2059 ± 2.24
2160
2140
2120
2100
2080
2060
2040
2020
2000
1980
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 50.61 / 42
p0 −2912 ± 5386
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1881
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.0007706
Std Dev 1.085
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 4817 / 42
p0 3492 ± 3.809
4200
4000
3800
3600
3400
3200
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 50.49 / 42
p0 1399 ± 3168
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 482.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.004395
Std Dev 1.084
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 303.2 / 42
p0 2059 ± 2.24
2160
2140
2120
2100
2080
2060
2040
2020
2000
1980
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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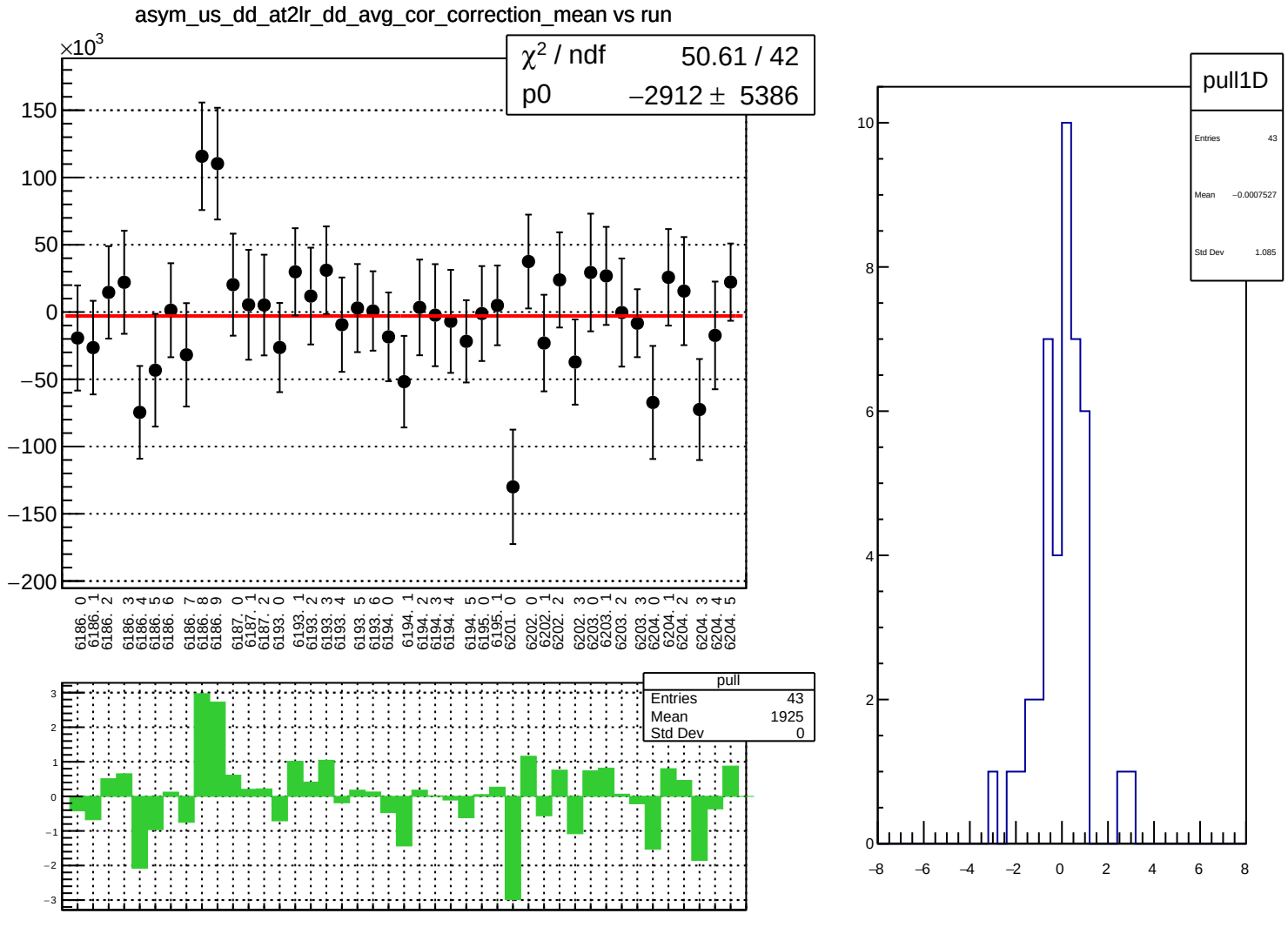
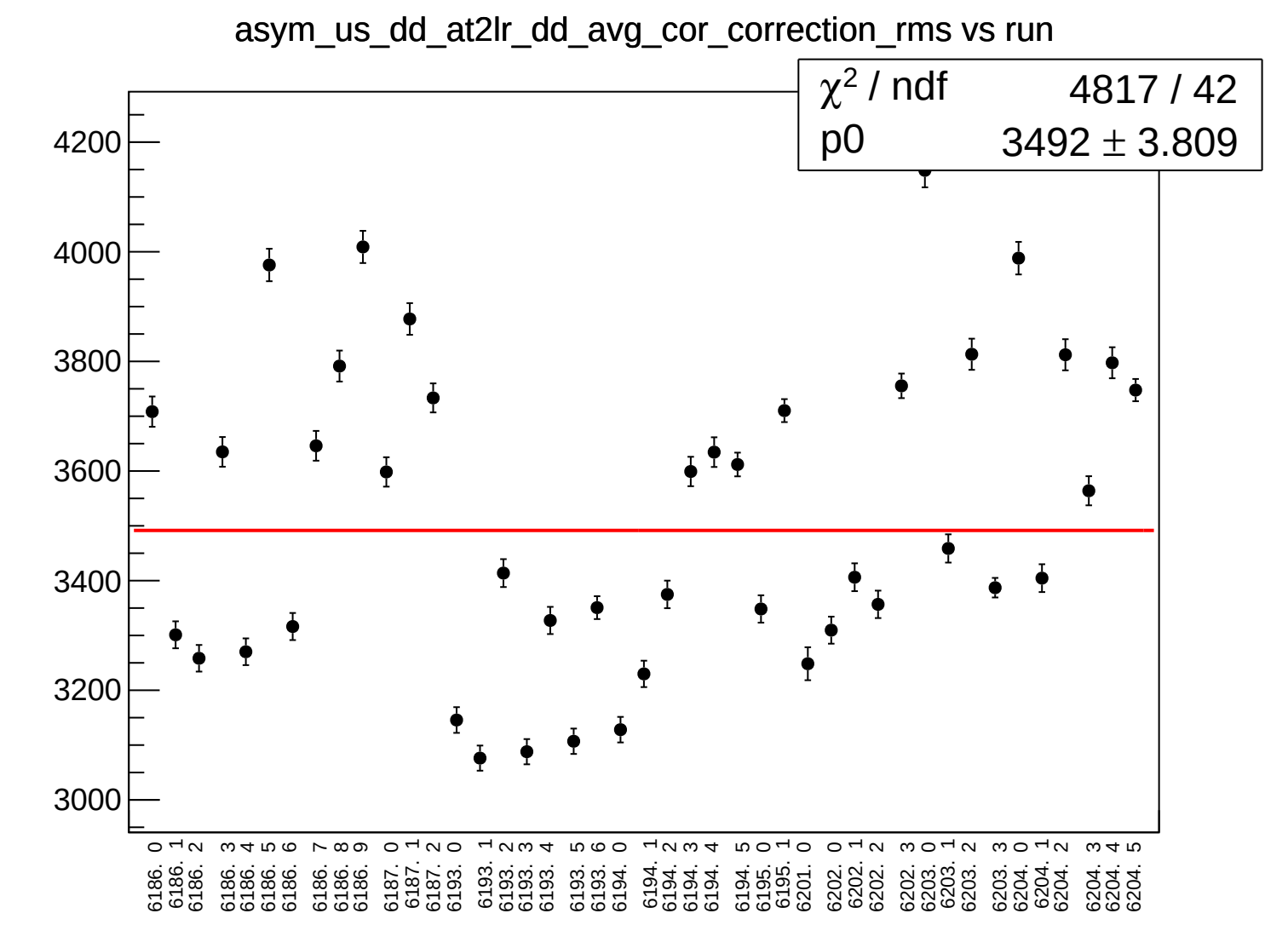
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 50.61 / 42
p0 −2912 ± 5386
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1925
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.0007527
Std Dev 1.085
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 4817 / 42
p0 3492 ± 3.809
4200
4000
3800
3600
3400
3200
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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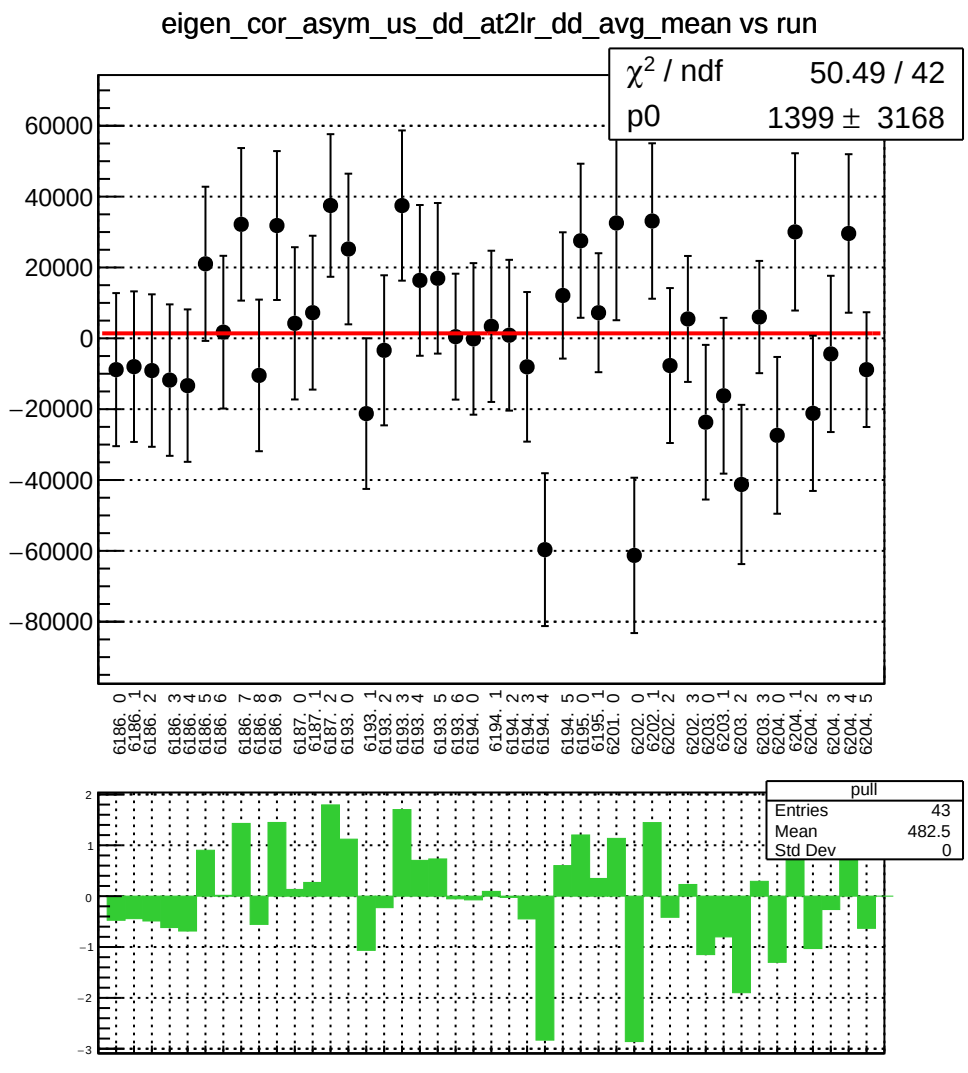
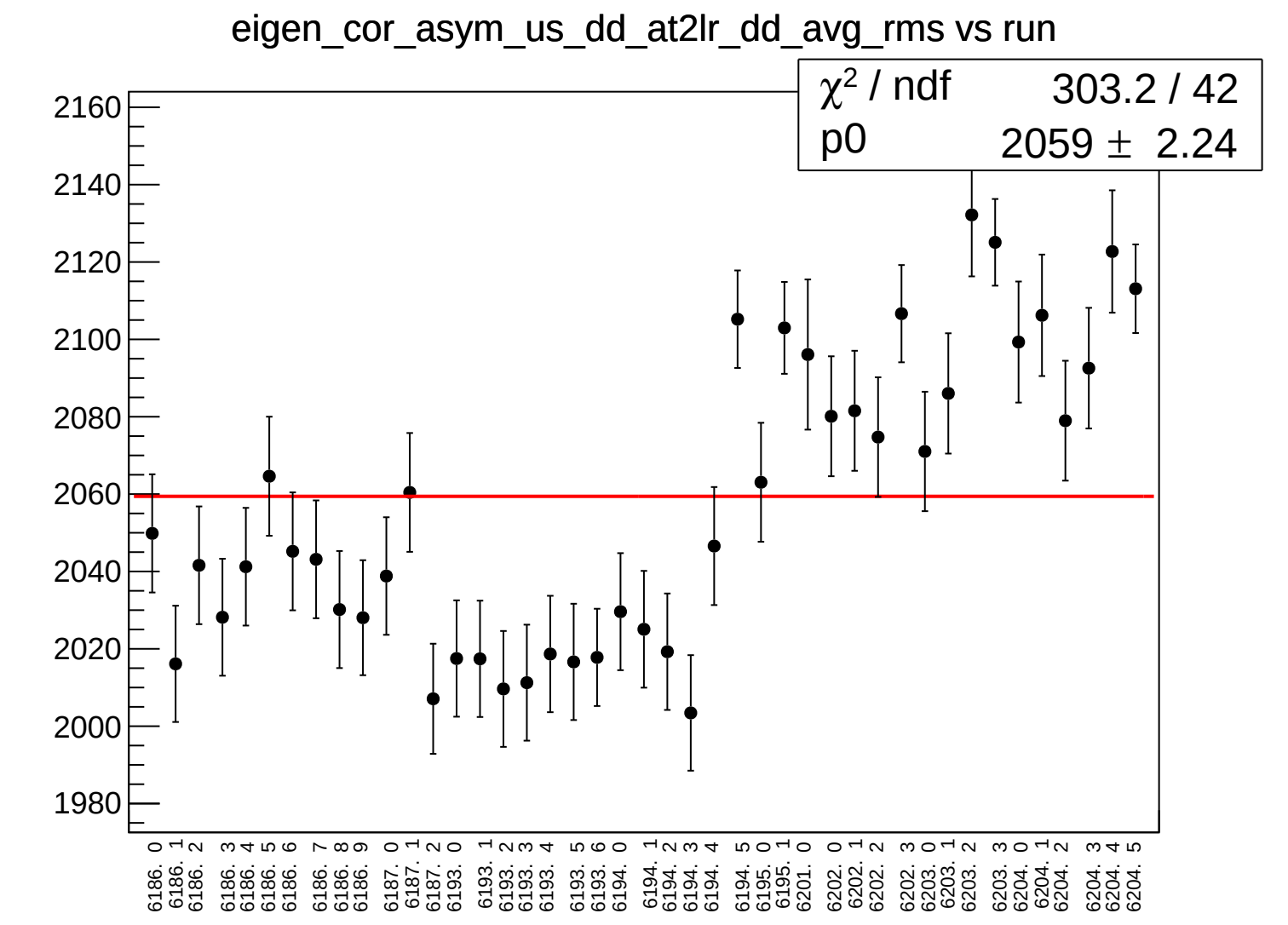
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 50.49 / 42
p0 1399 ± 3168
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 482.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.004395
Std Dev 1.084
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 303.2 / 42
p0 2059 ± 2.24
2160
2140
2120
2100
2080
2060
2040
2020
2000
1980
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
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6187. 2
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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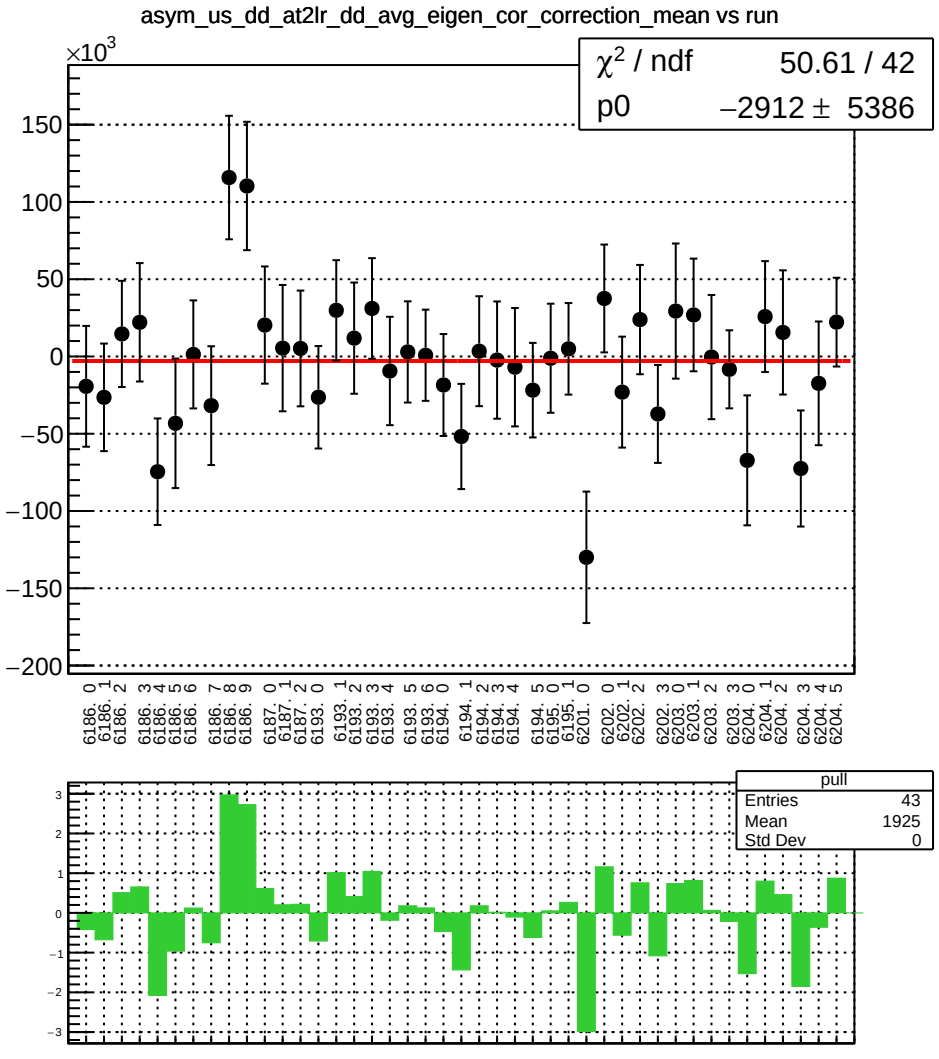
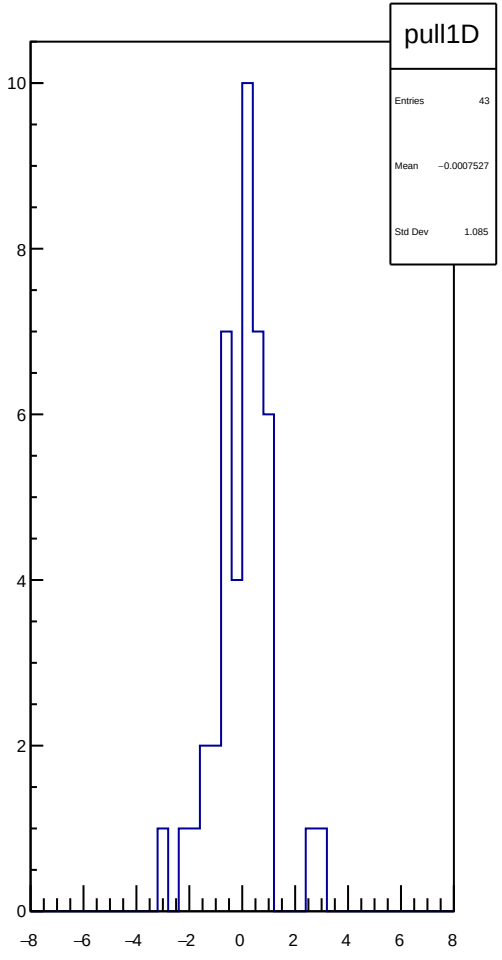
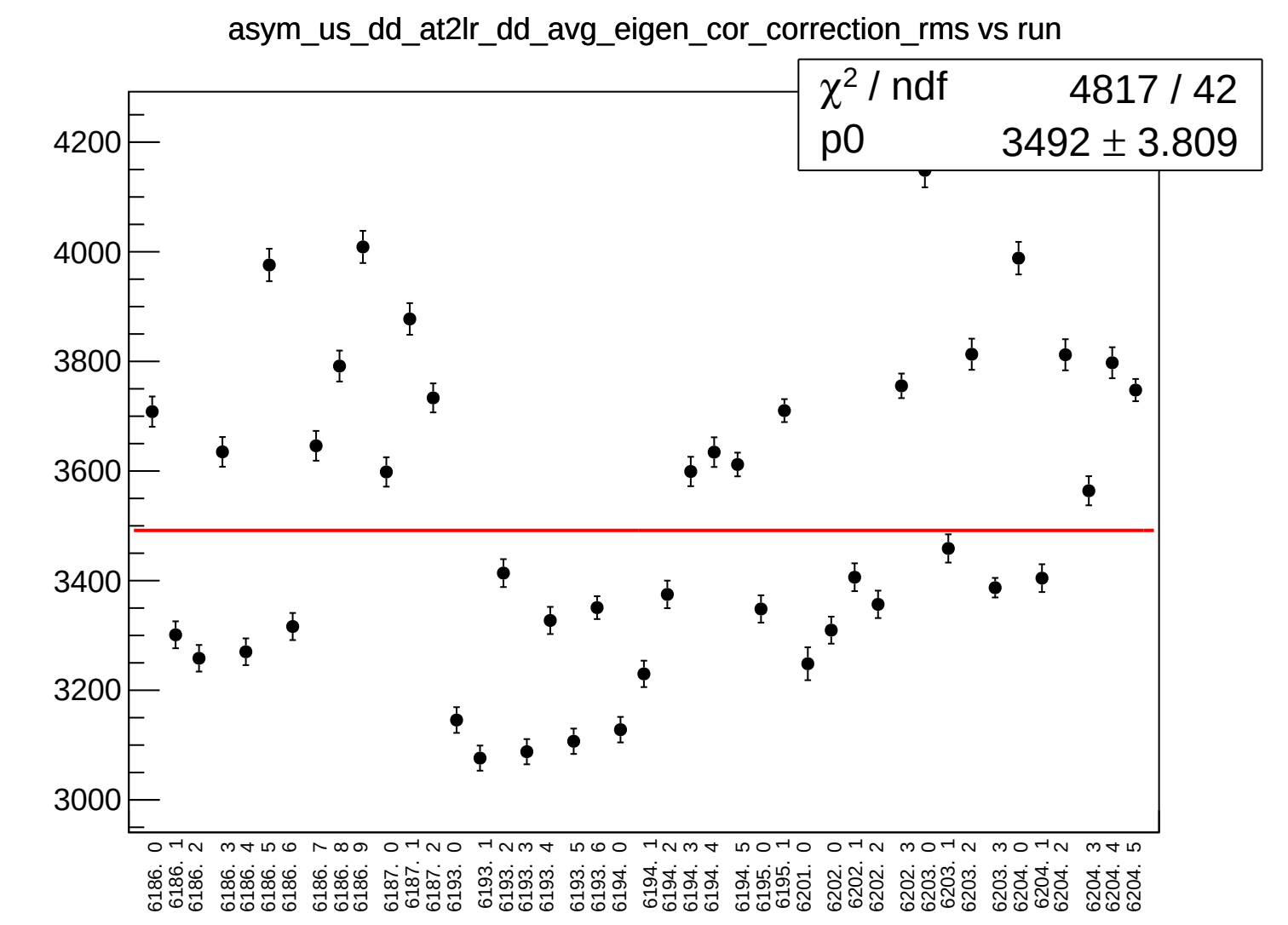
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 50.61 / 42
p0 −2912 ± 5386
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1925
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.0007527
Std Dev 1.085
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4817 / 42
p0 3492 ± 3.809
4200
4000
3800
3600
3400
3200
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
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6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
6193. 0
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6193. 2
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6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
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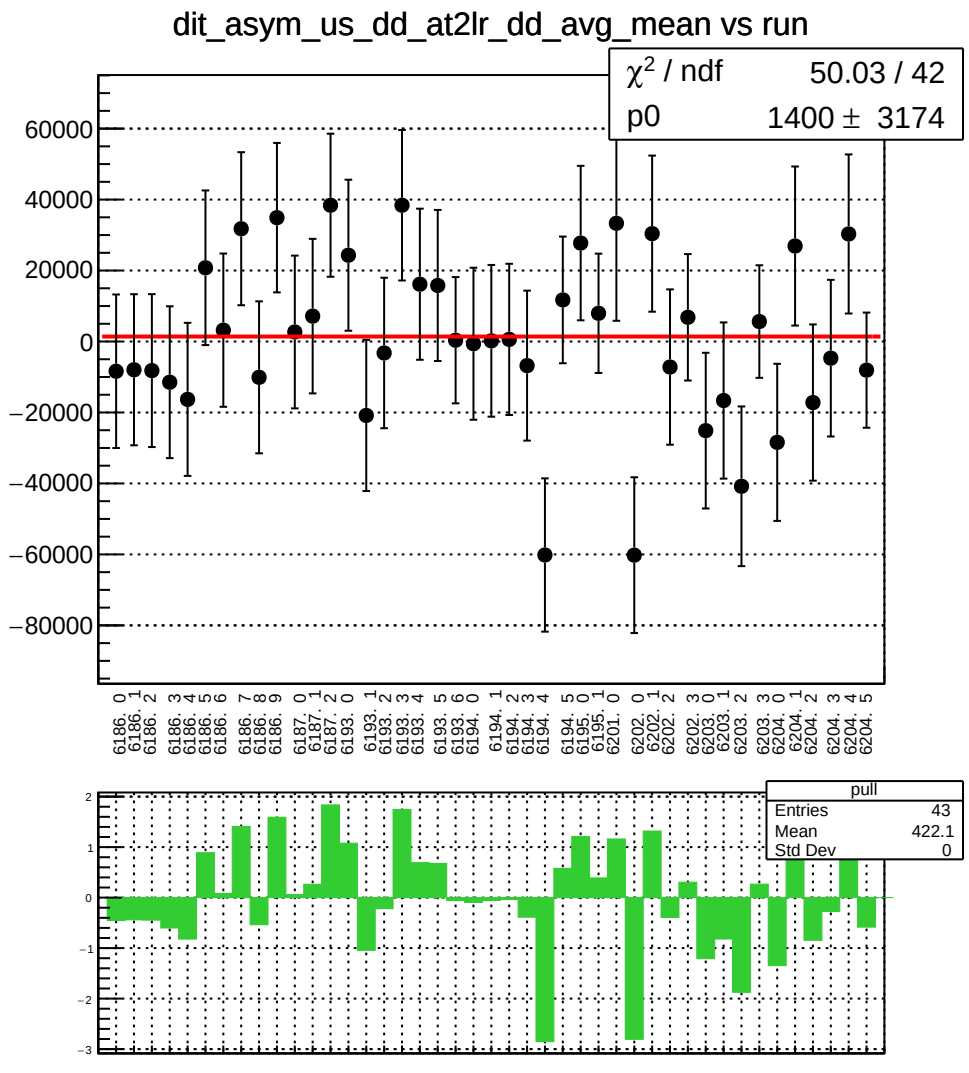
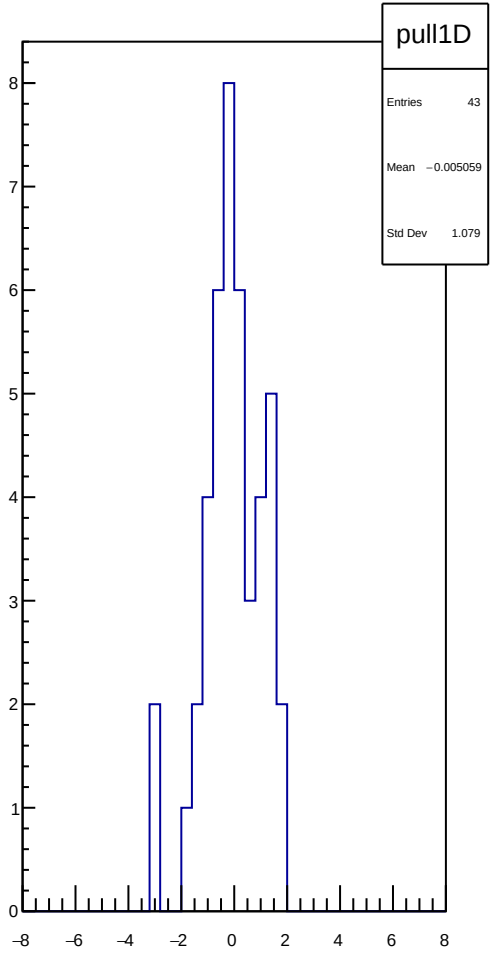
6204. 4
6204. 5


dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 50.03 / 42
p0 1400 ± 3174
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 422.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.005059
Std Dev 1.079
8
7
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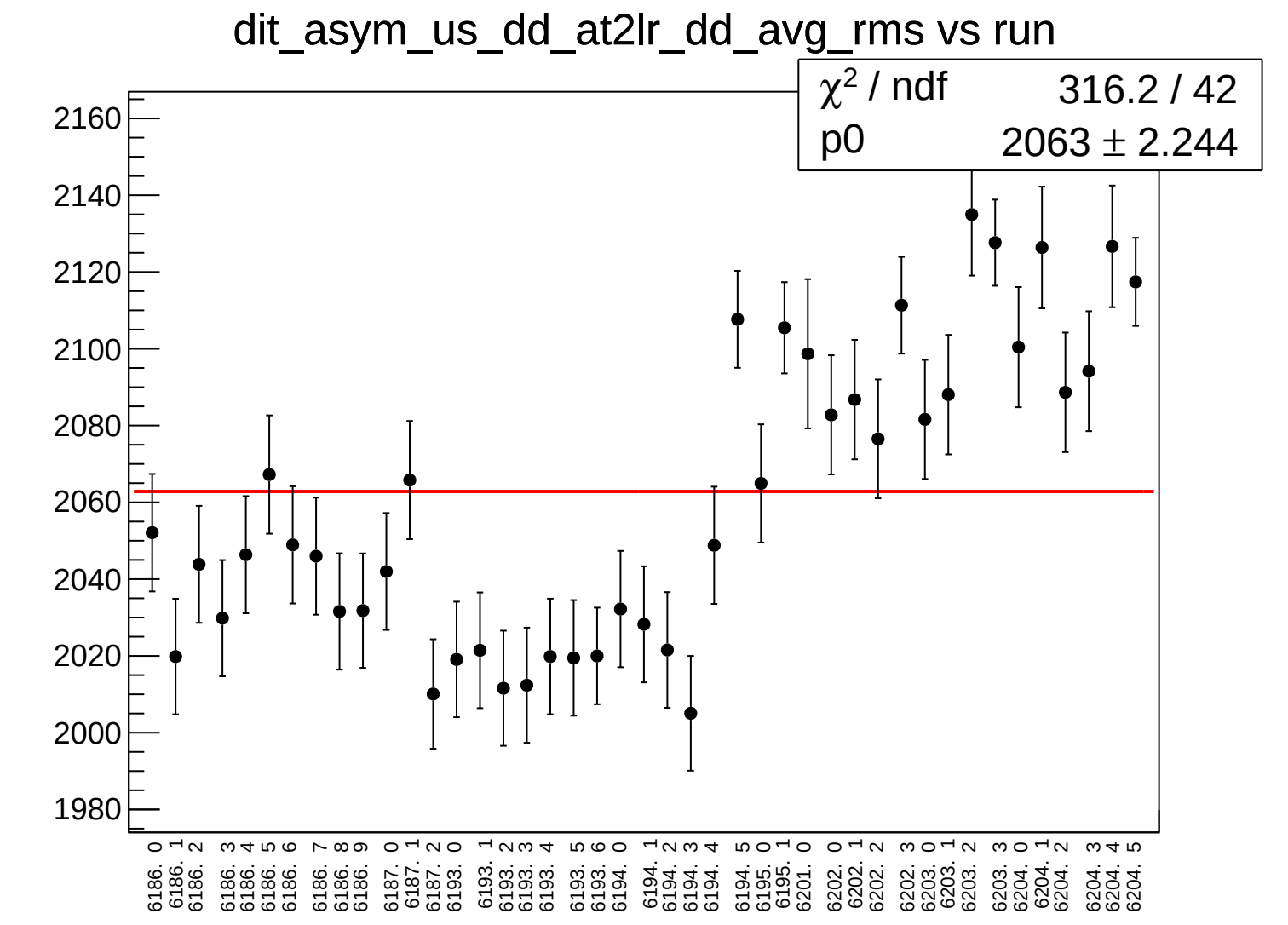
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 316.2 / 42
p0 2063 ± 2.244
2160
2140
2120
2100
2080
2060
2040
2020
2000
1980
6186. 0
6186. 1
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6186. 4
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6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
6204. 0
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6204. 2
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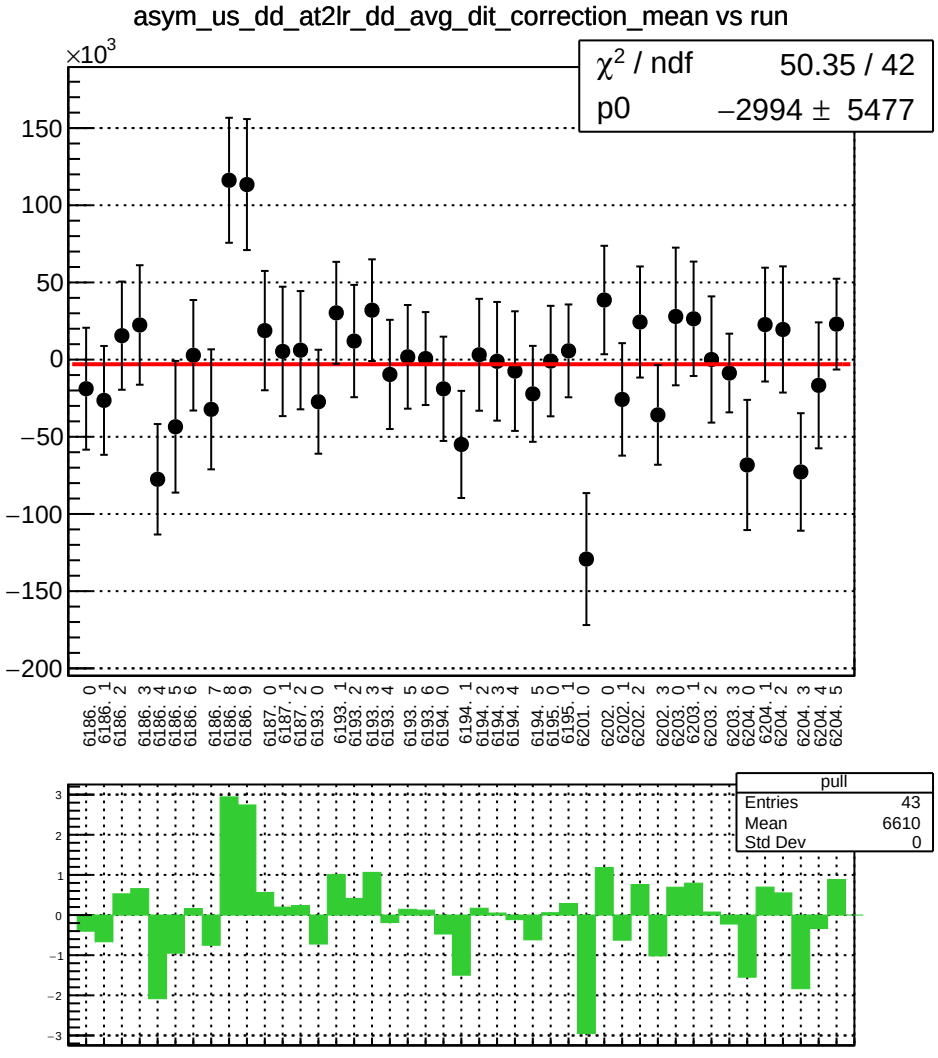
6204. 4
6204. 5


asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 50.35 / 42
p0 −2994 ± 5477
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
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6193. 1
6193. 2
6193. 3
6193. 4
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6193. 6
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6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
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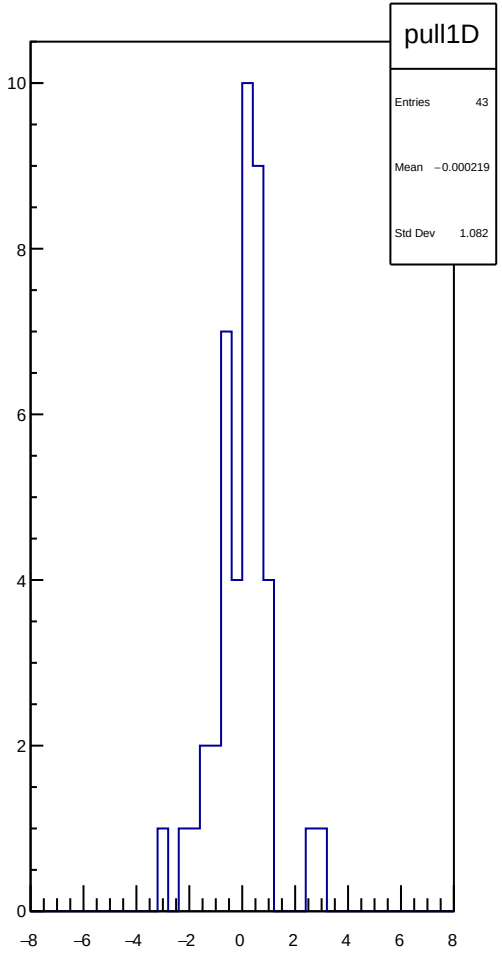
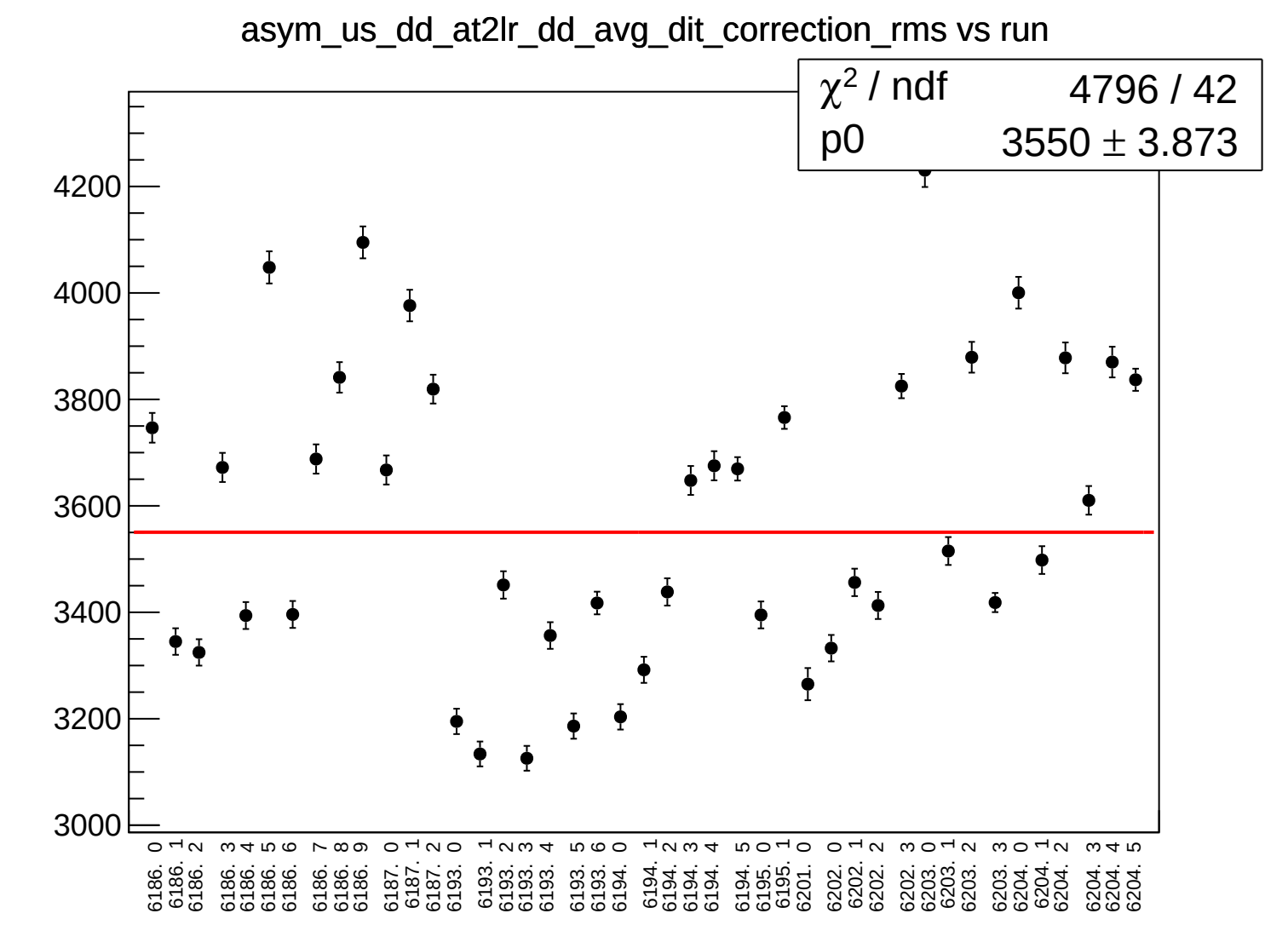
6204. 4
6204. 5
pull
Entries 43
Mean 6610
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.000219
Std Dev 1.082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 4796 / 42
p0 3550 ± 3.873
4200
4000
3800
3600
3400
3200
3000
6186. 0
6186. 1
6186. 2
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6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
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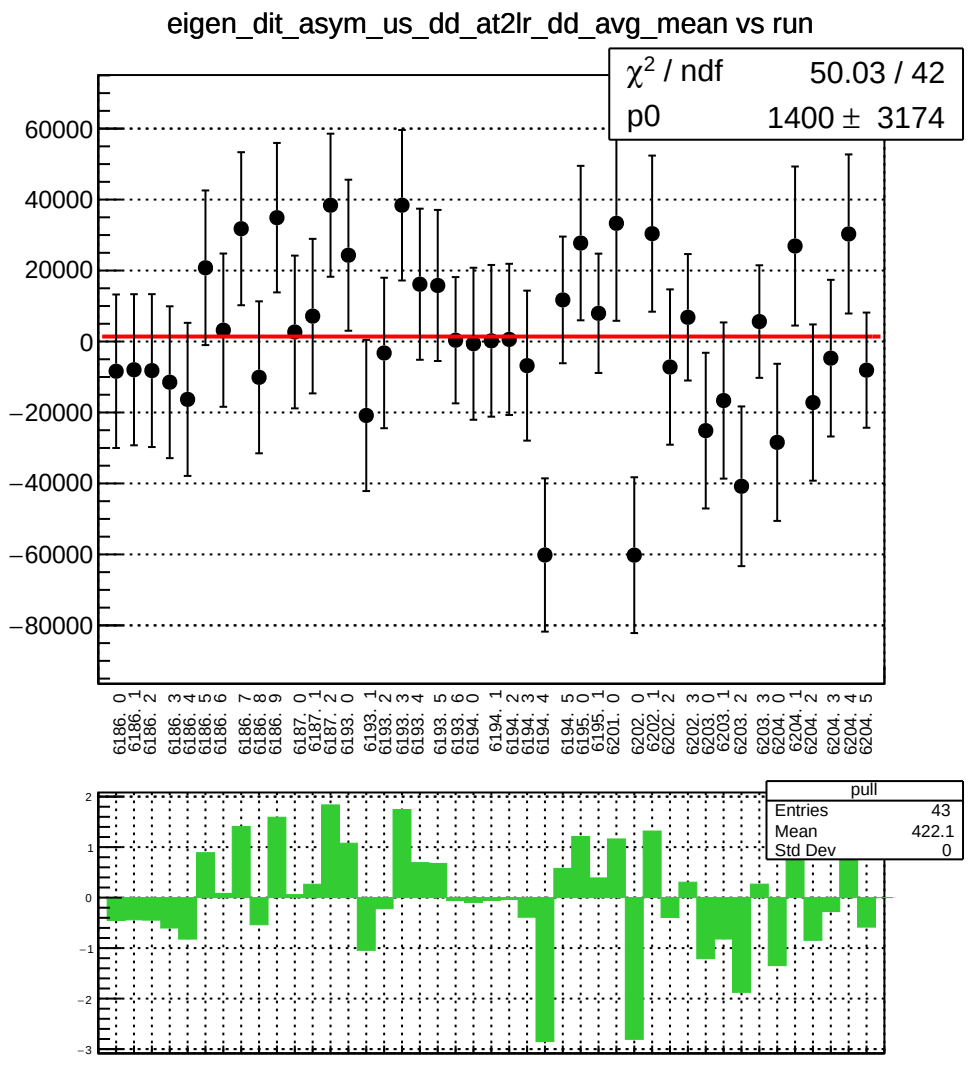
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 50.03 / 42
p0 1400 ± 3174
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
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6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 422.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.005059
Std Dev 1.079
8
7
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5
4
3
2
1
0
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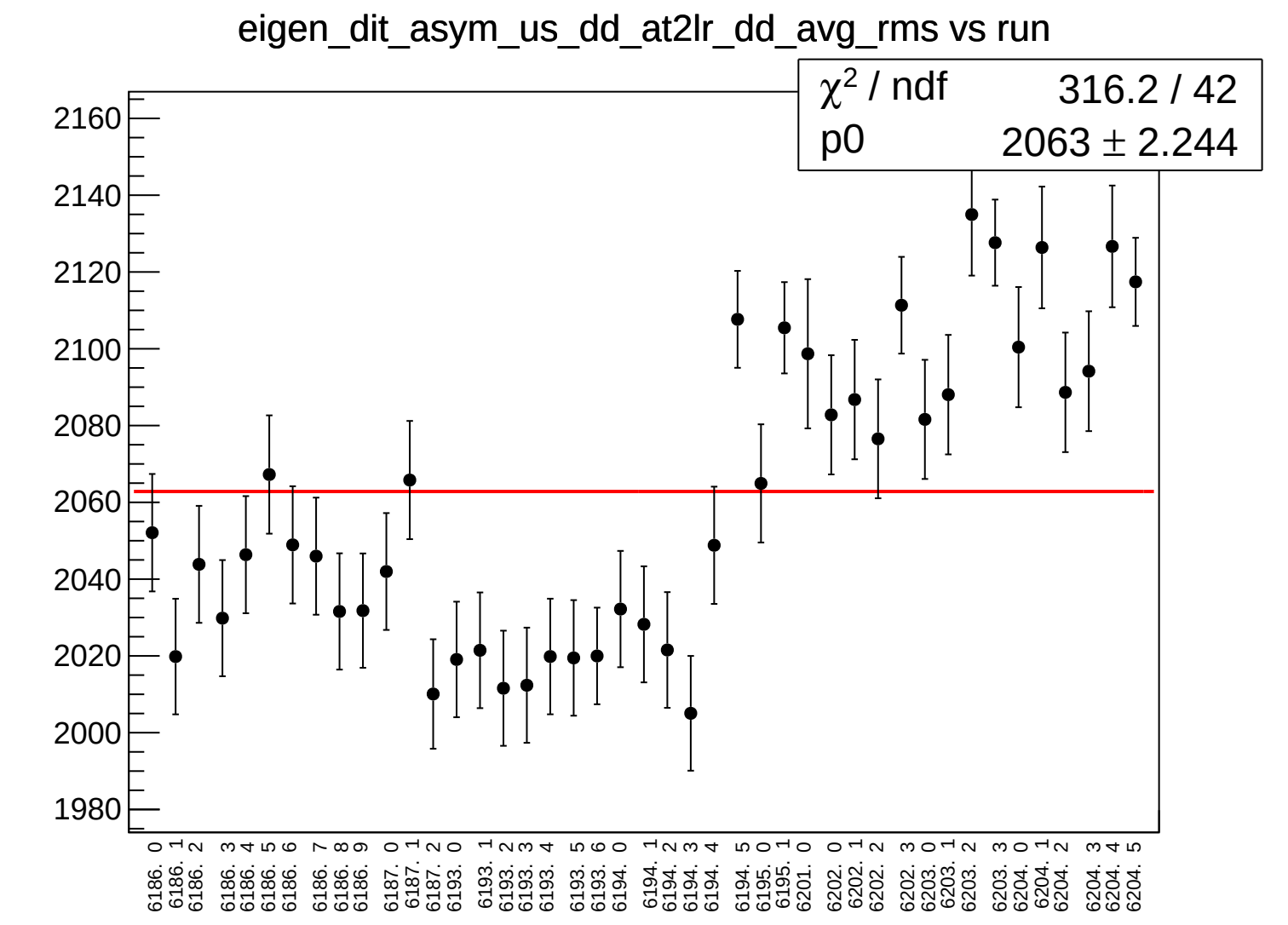
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 316.2 / 42
p0 2063 ± 2.244
2160
2140
2120
2100
2080
2060
2040
2020
2000
1980
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
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6193. 4
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6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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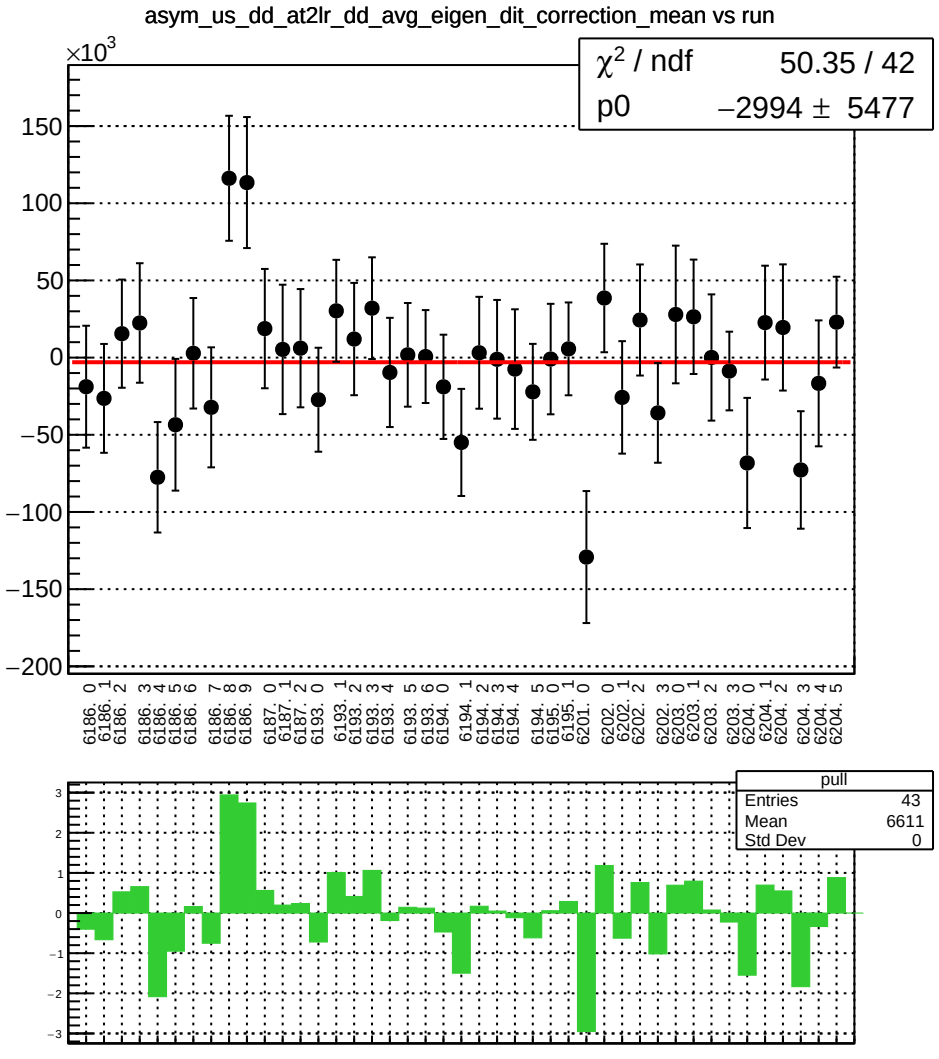
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 50.35 / 42
p0 −2994 ± 5477
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
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6193. 5
6193. 6
6194. 0
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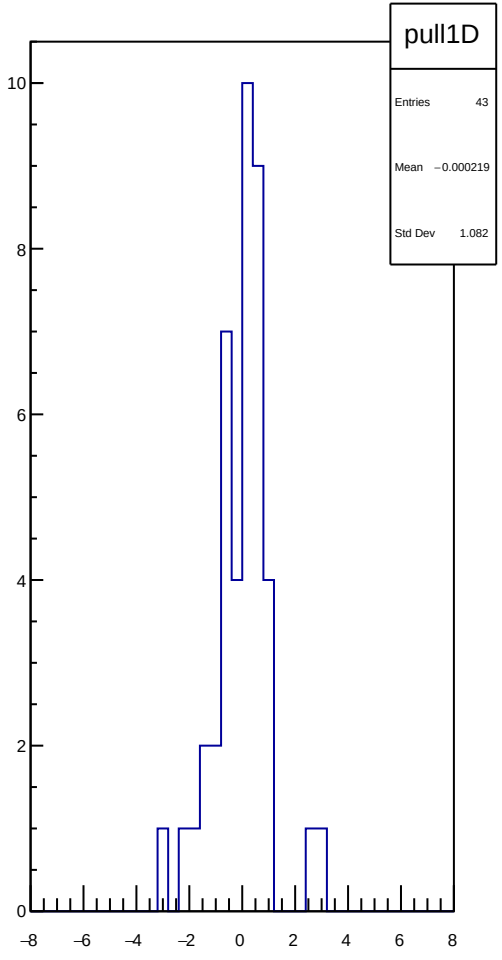
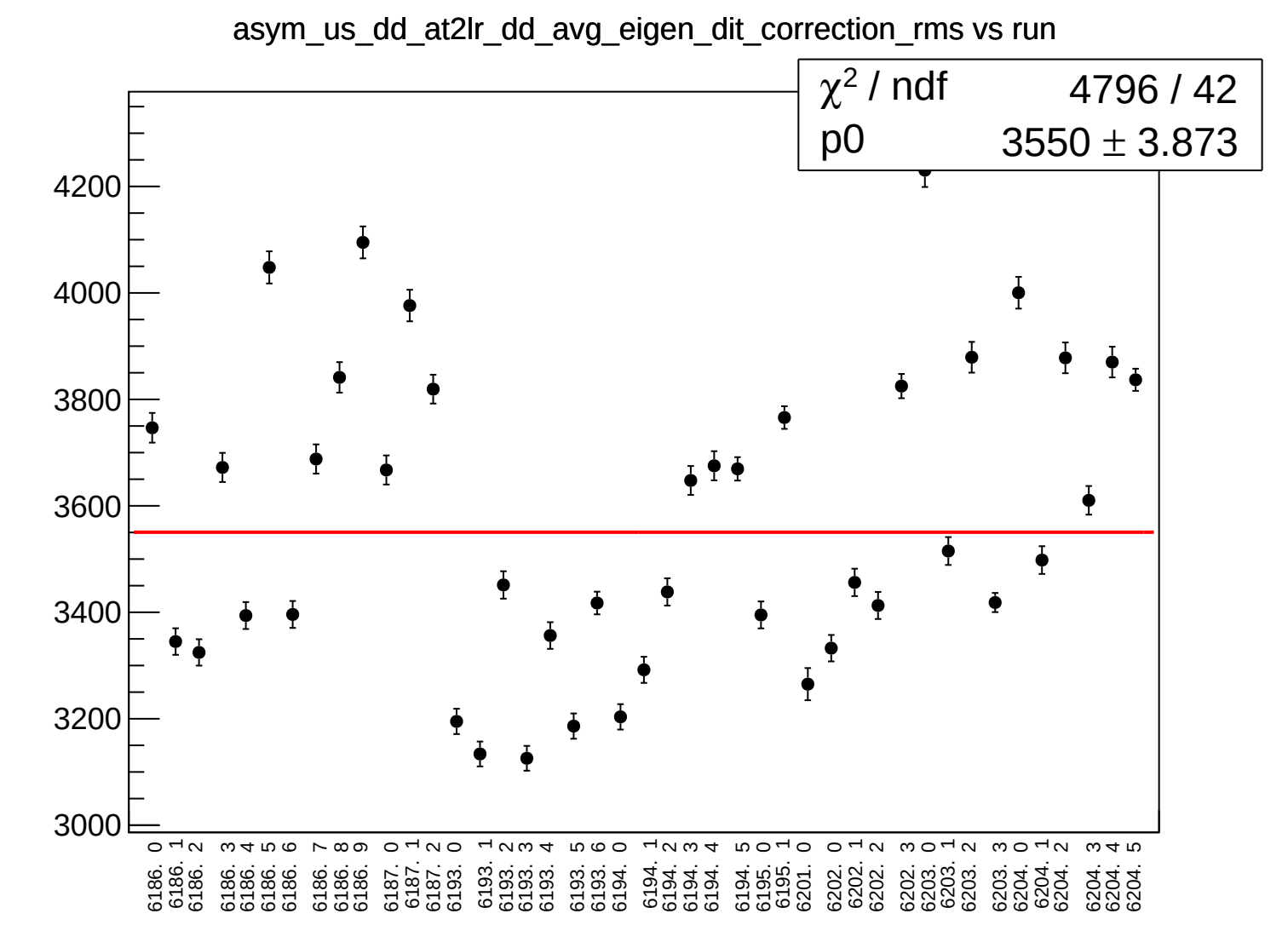
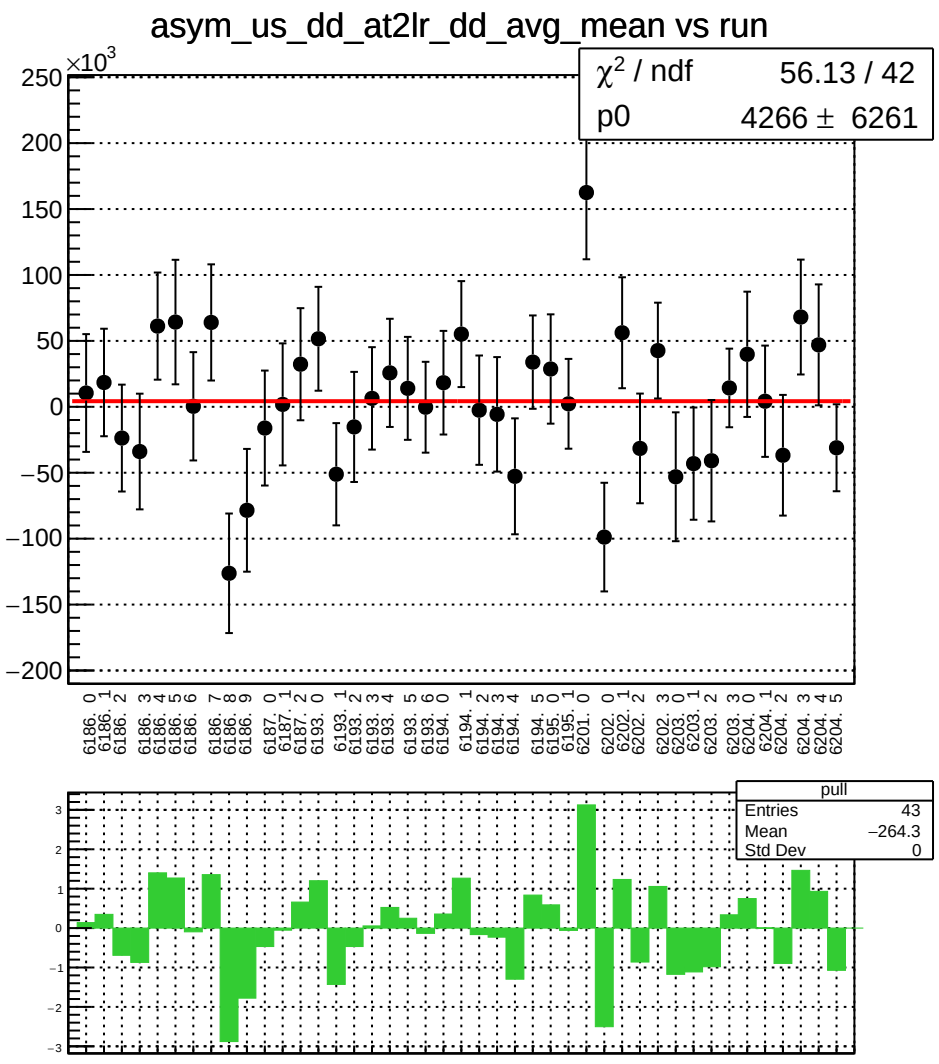
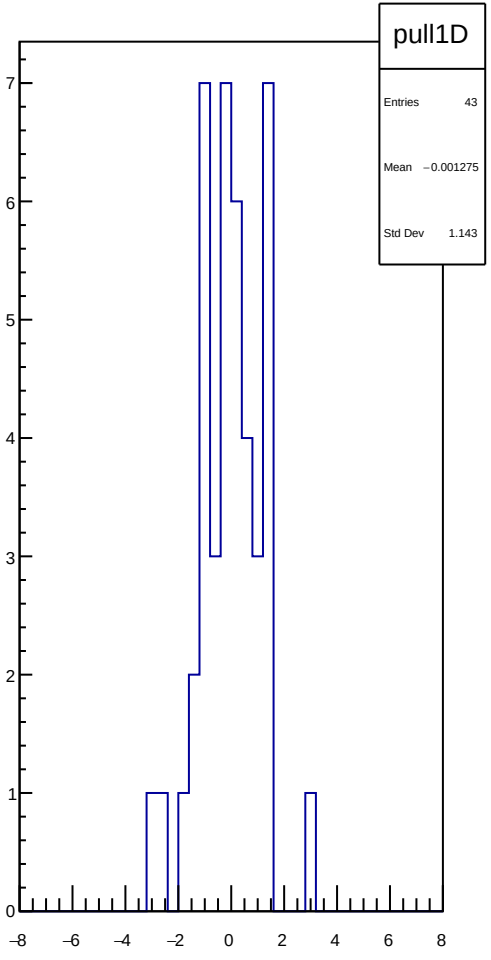
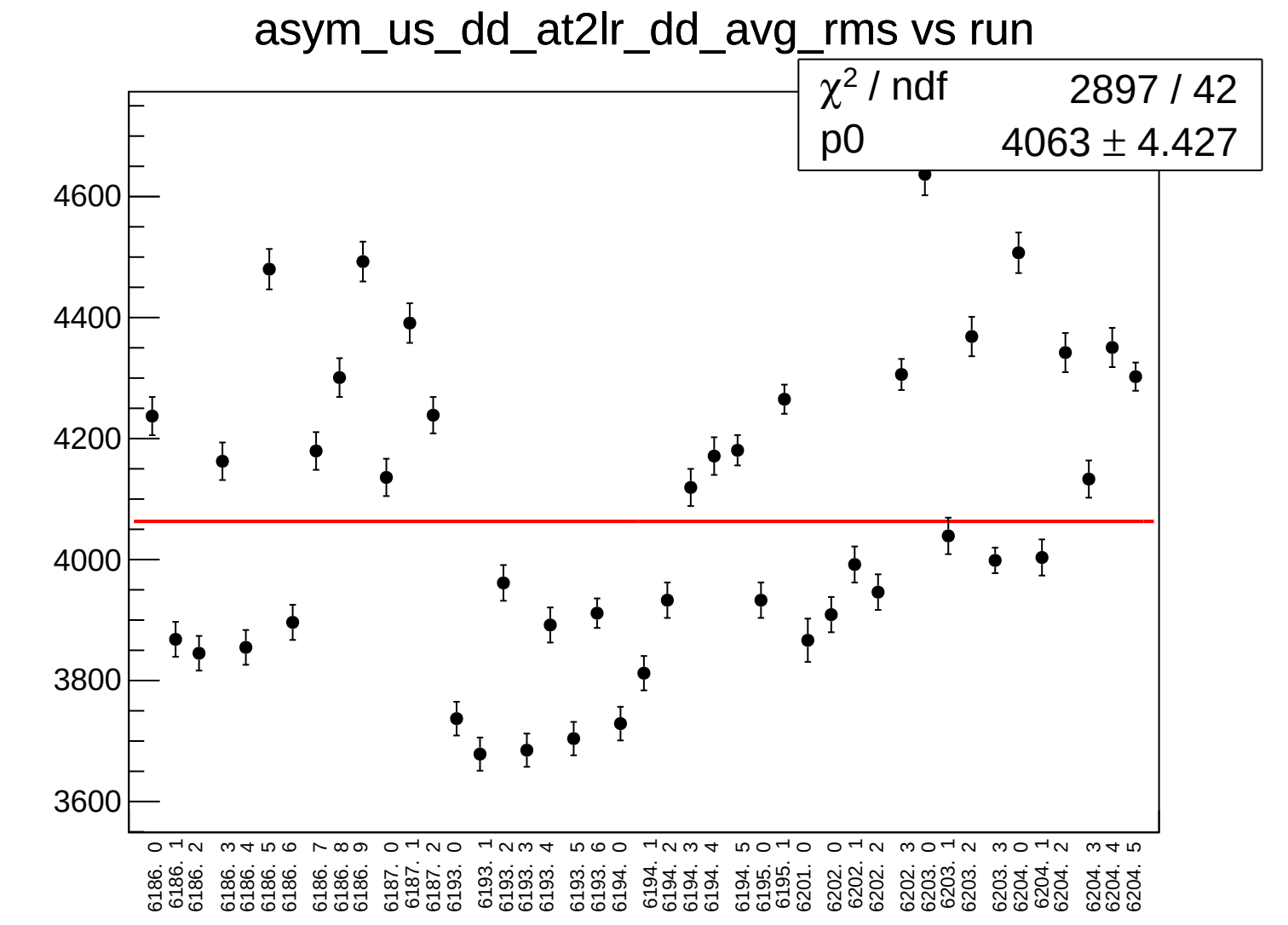
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 6611
Std Dev 0
3
2
1
0
−1
−2
−3

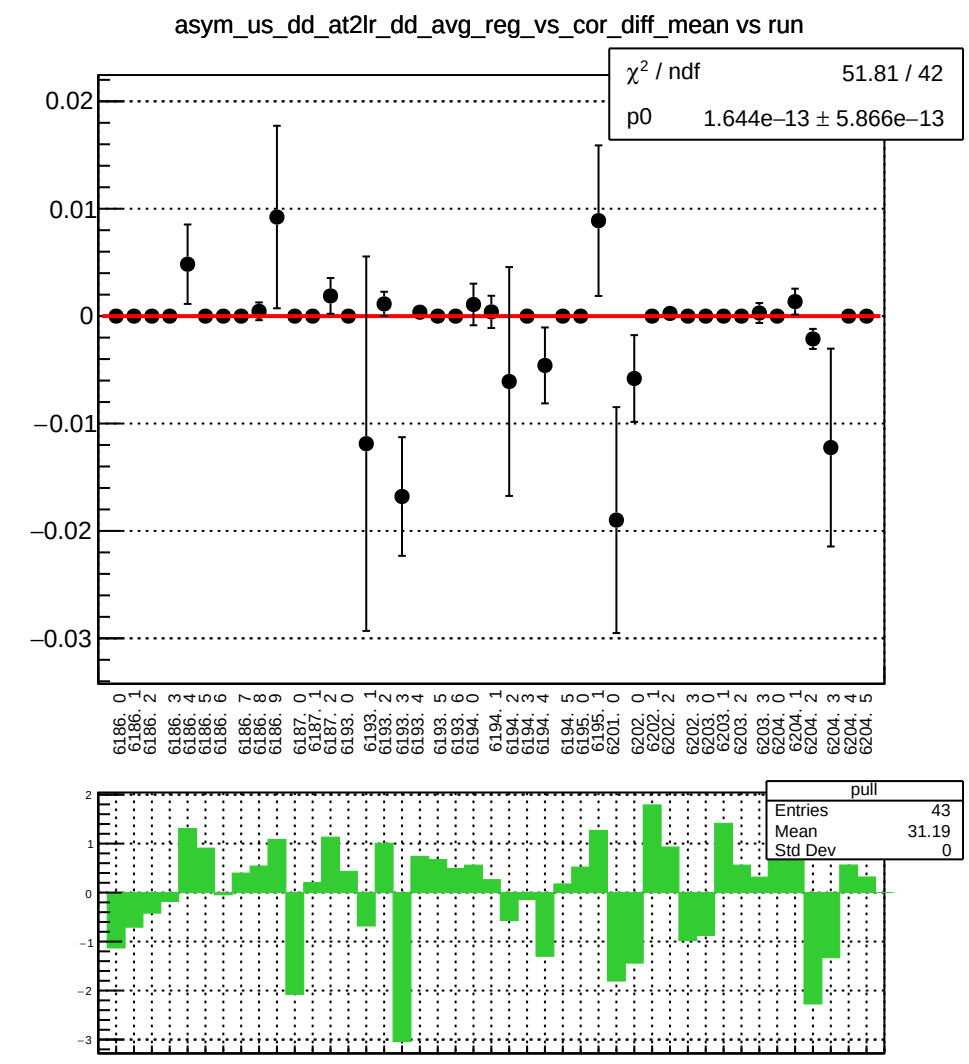

pull1D
Entries 43
Mean −0.000219
Std Dev 1.082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

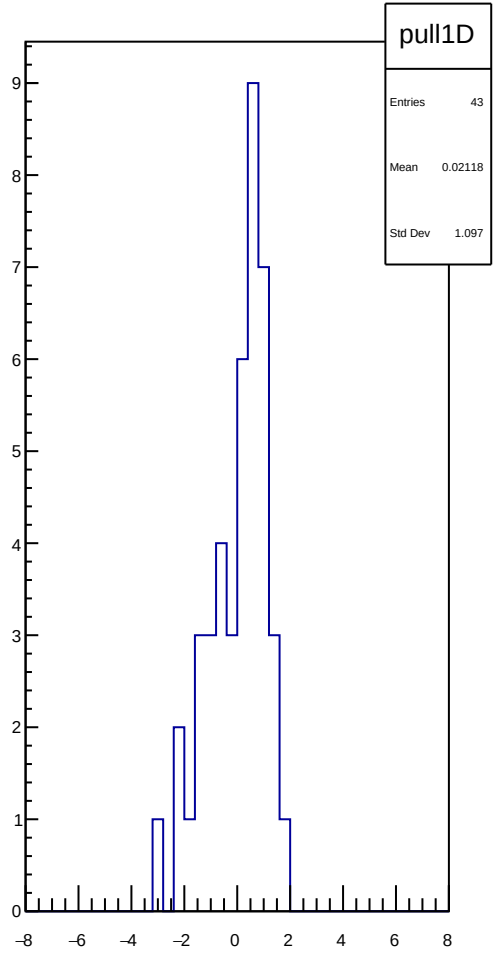

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4796 / 42
p0 3550 ± 3.873
4200
4000
3800
3600
3400
3200
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

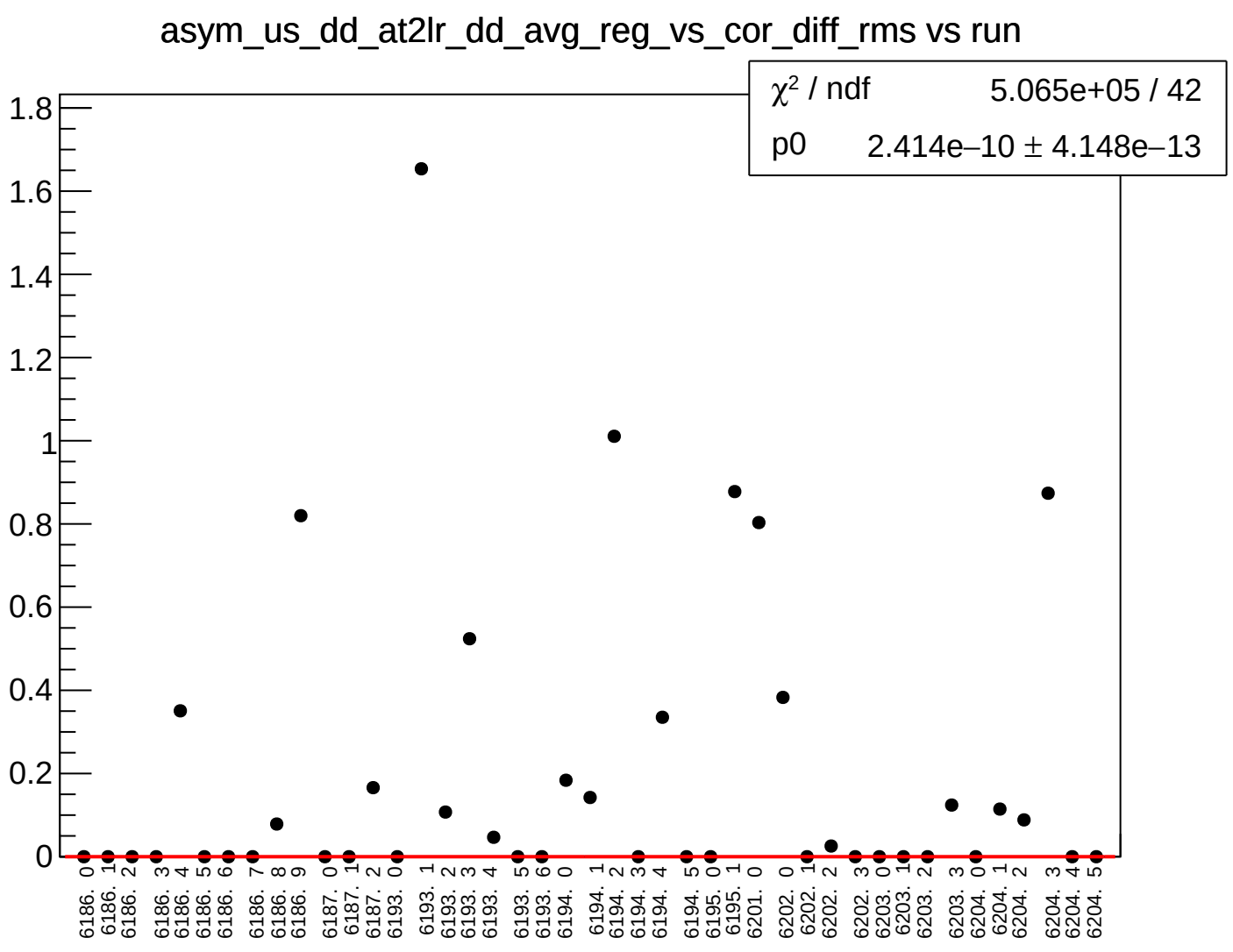

asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 56.13 / 42
p0 4266 ± 6261
×10³
pull
Entries 43
Mean −264.3
Std Dev 0

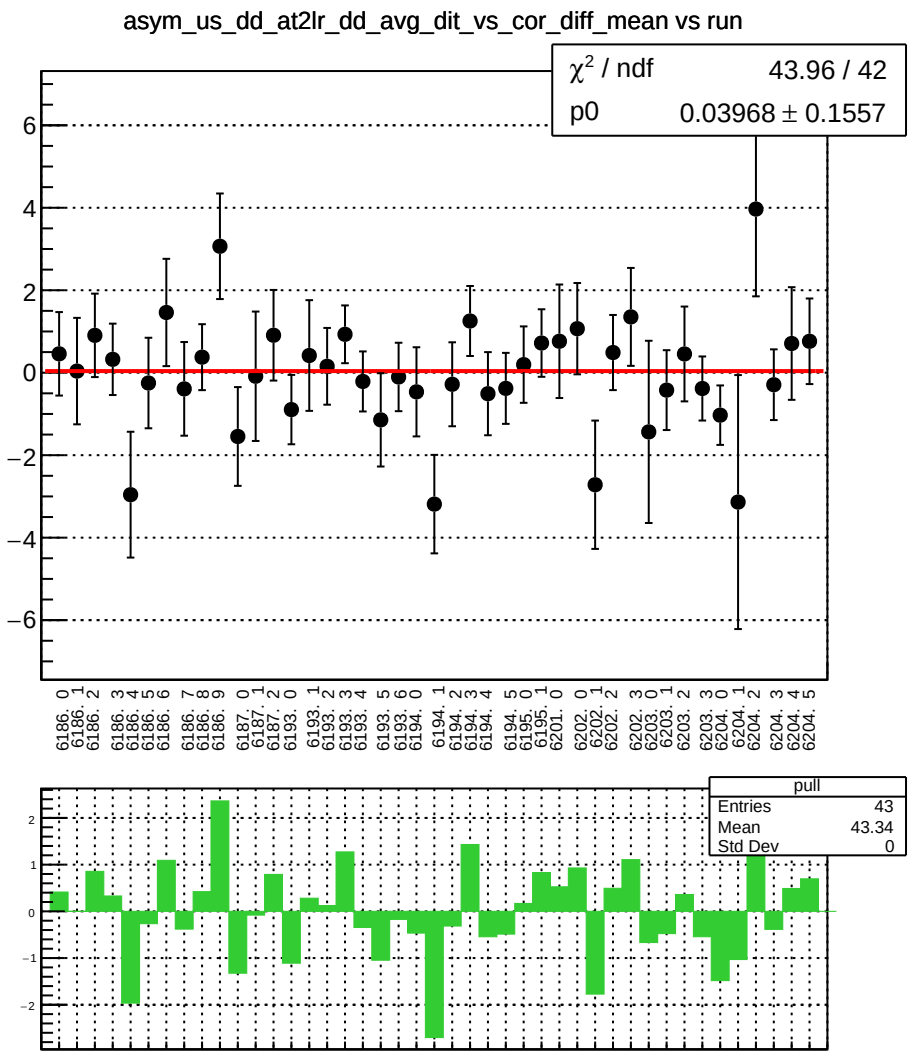

pull1D
Entries 43
Mean −0.001275
Std Dev 1.143

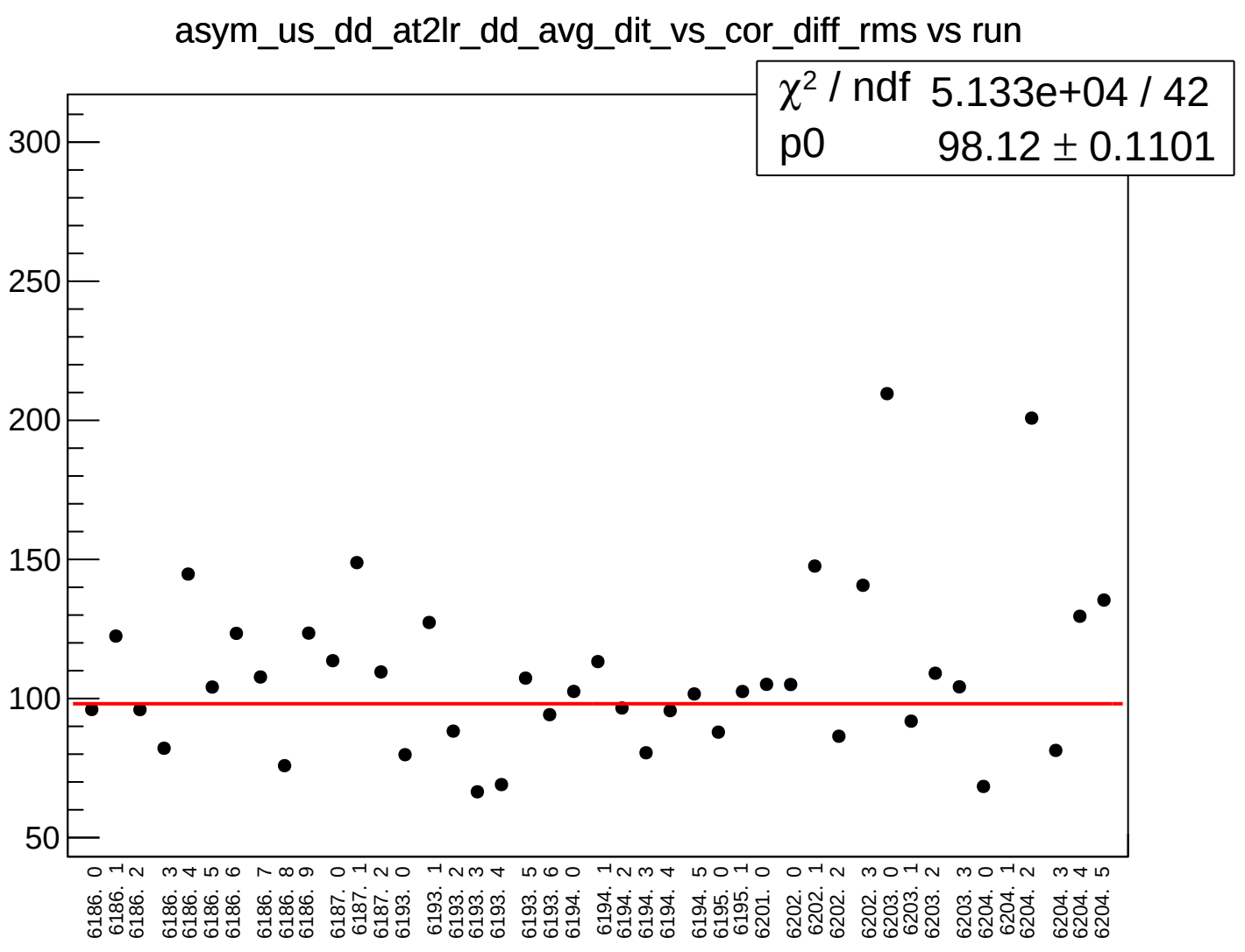

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 2897 / 42
p0 4063 ± 4.427
4600
4400
4200
4000
3800
3600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 51.81 / 42
p0 1.644e−13 ± 5.866e−13
0.02
0.01
0
−0.01
−0.02
−0.03
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 31.19
Std Dev 0
2
1
0
−1
−2
−3

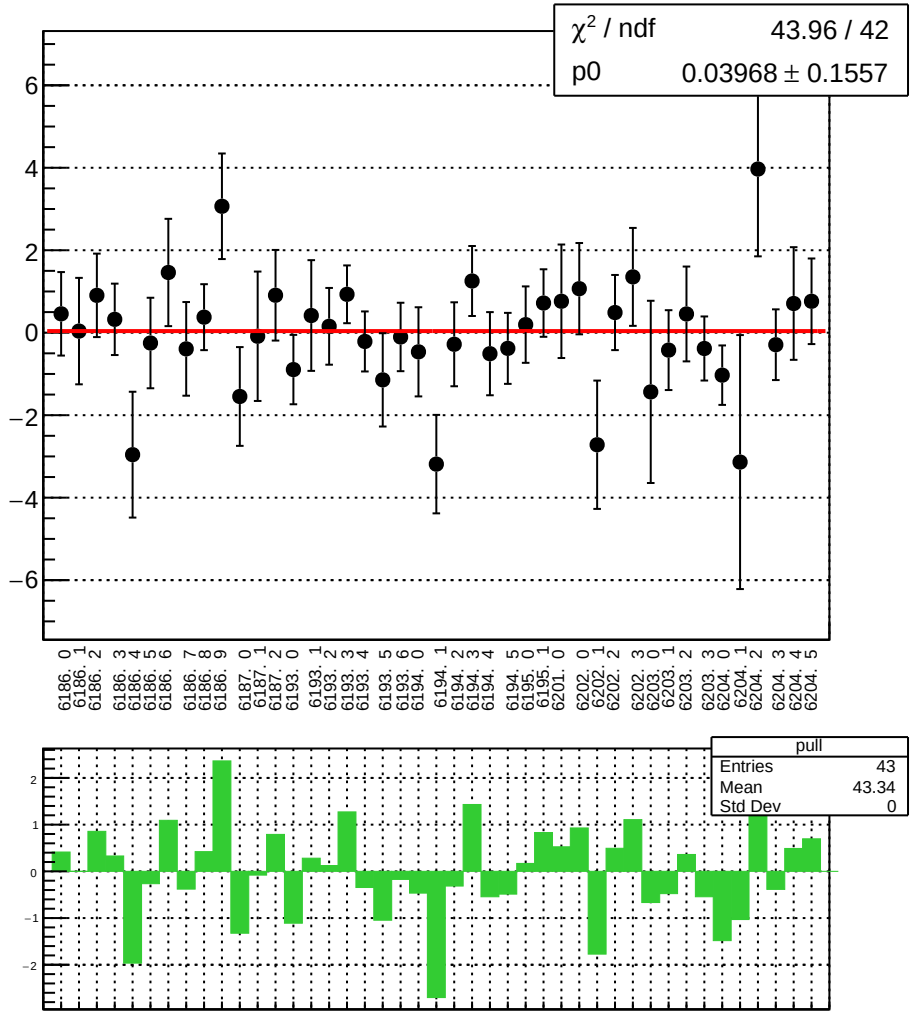

pull1D
Entries 43
Mean 0.02118
Std Dev 1.097
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

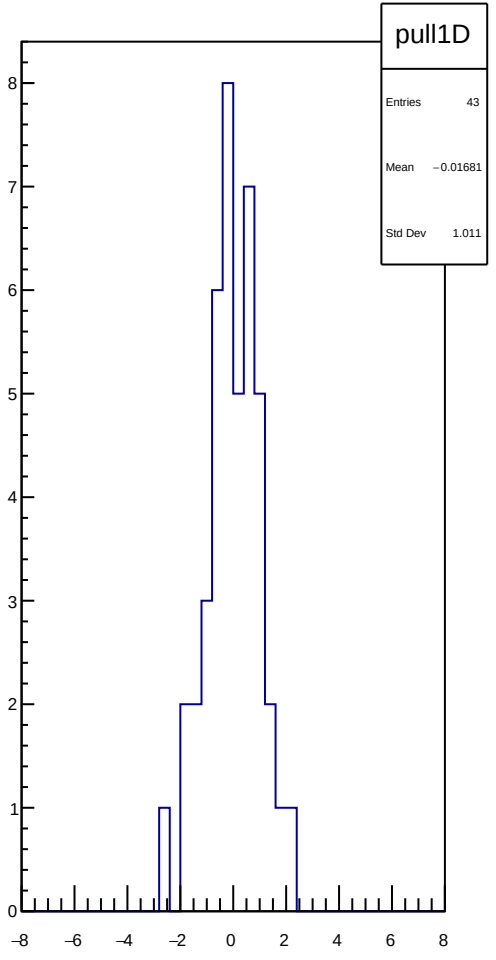

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.065e+05 / 42
p0 2.414e−10 ± 4.148e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

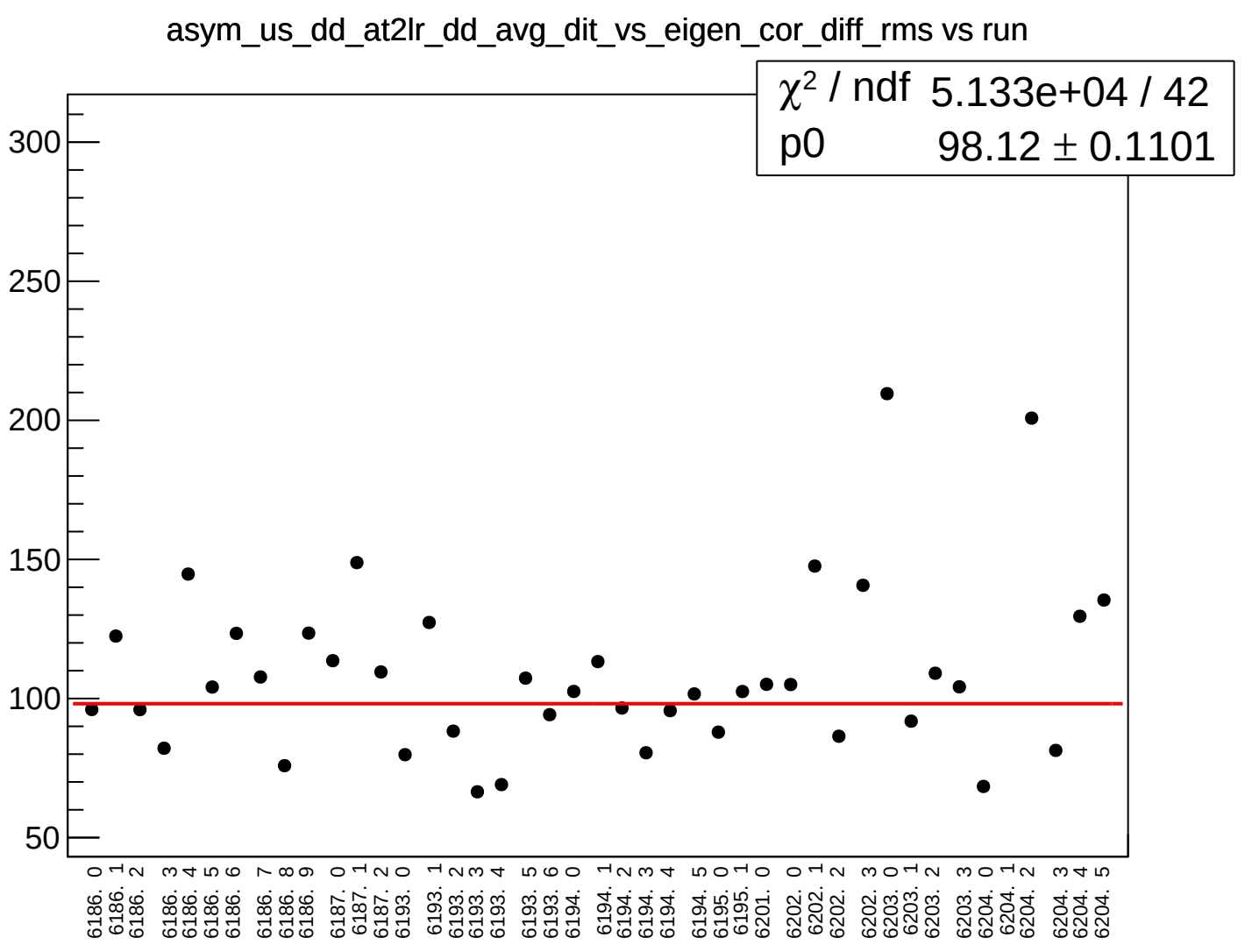

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 43.96 / 42
p0 0.03968 ± 0.1557
pull
Entries 43
Mean 43.34
Std Dev 0
pull1D
Entries 43
Mean −0.01681
Std Dev 1.011

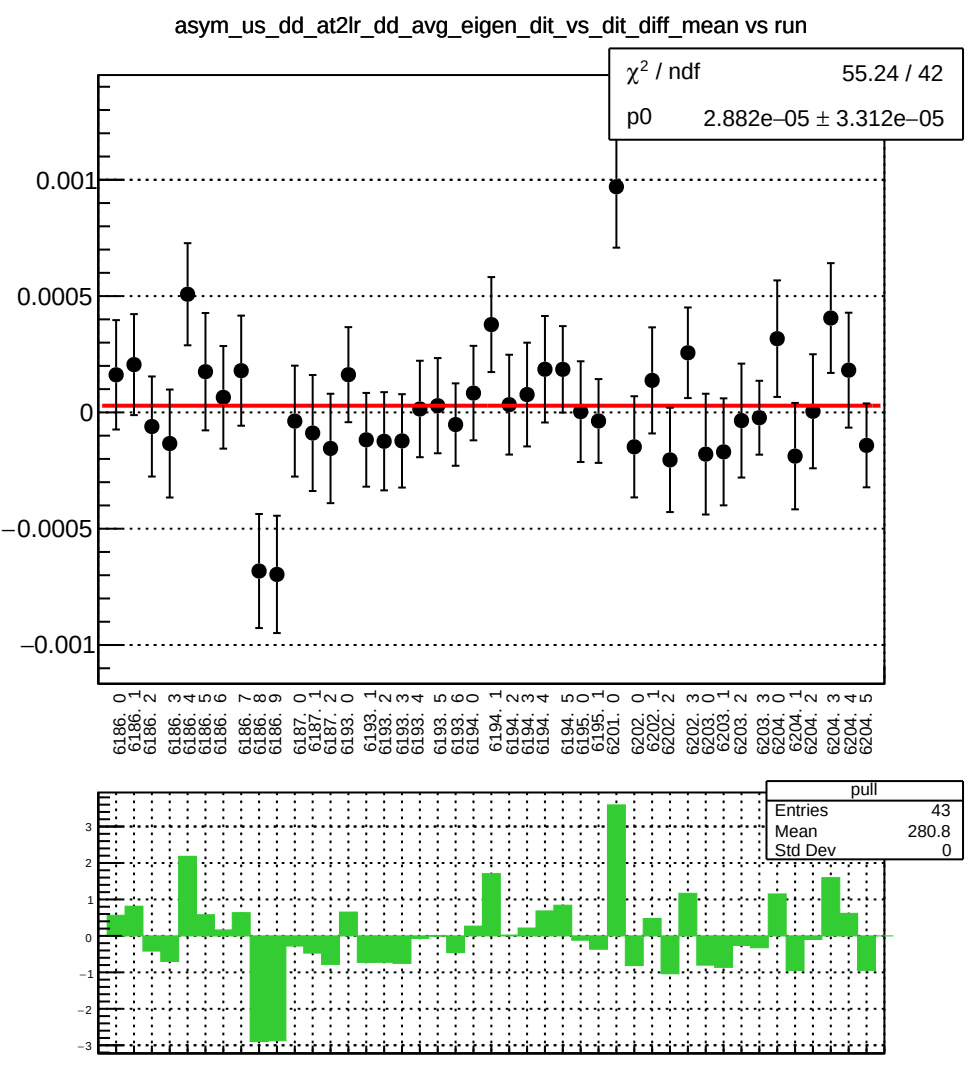

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.133e+04 / 42
p0 98.12 ± 0.1101
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

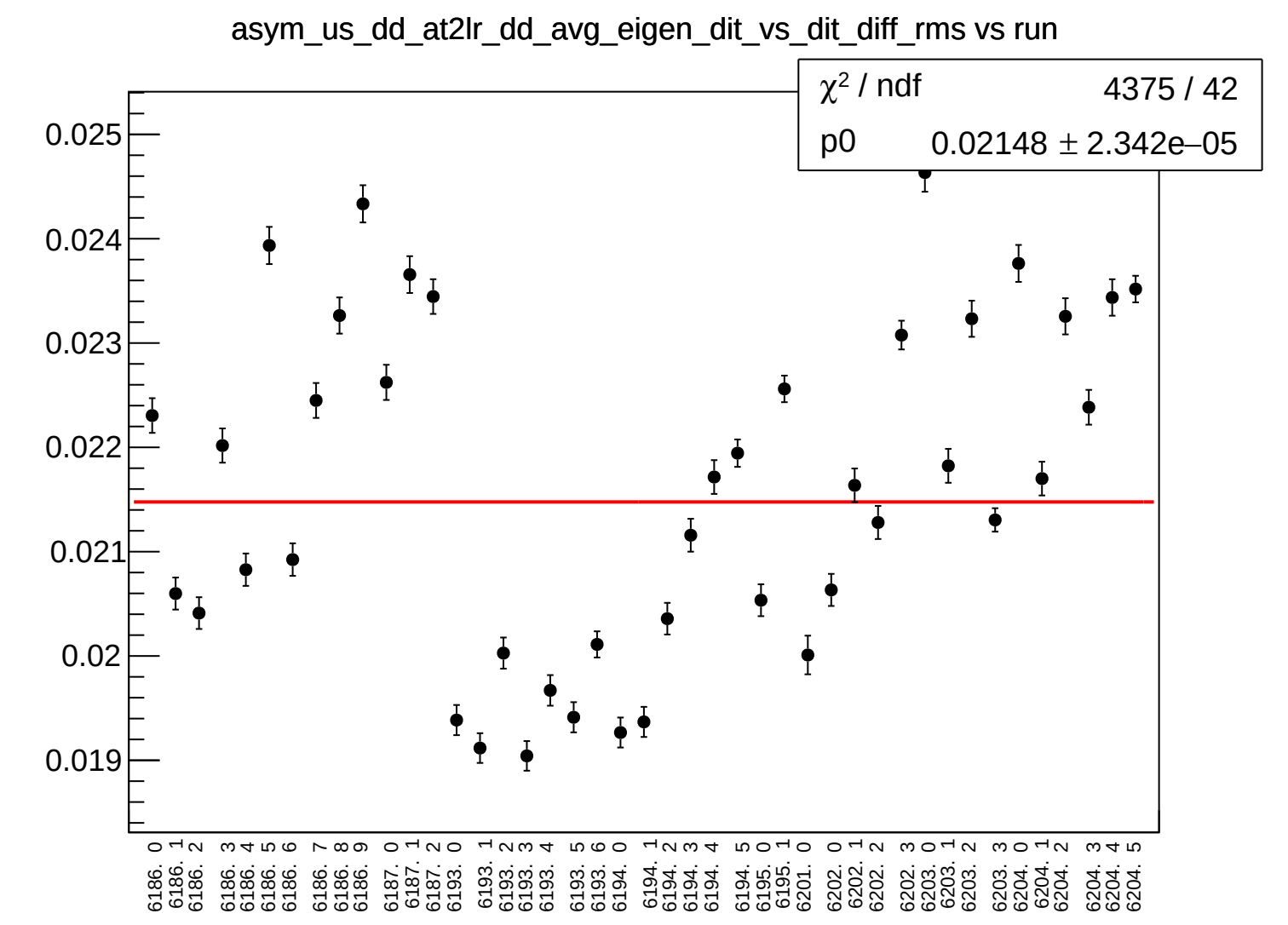
asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run

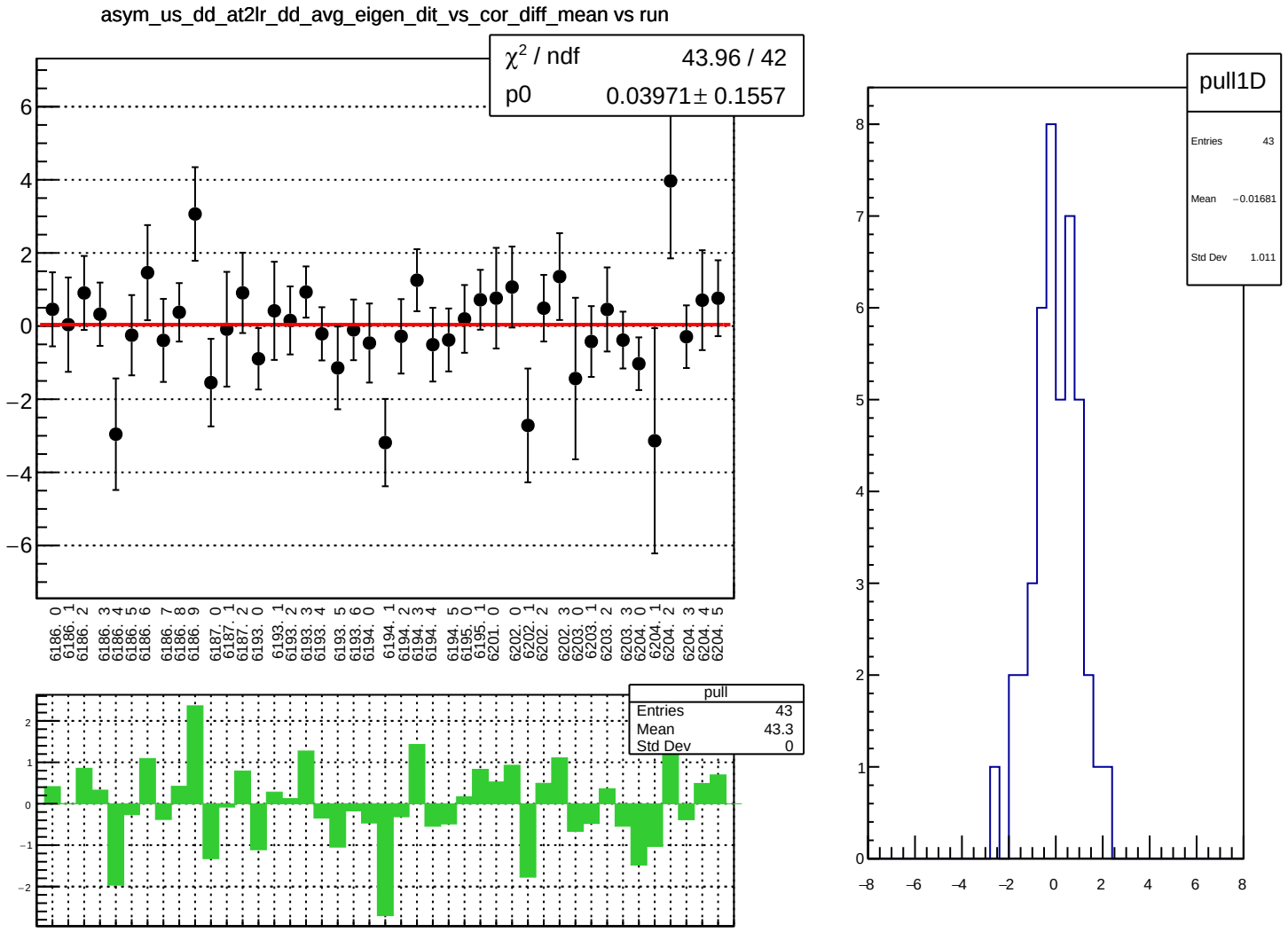


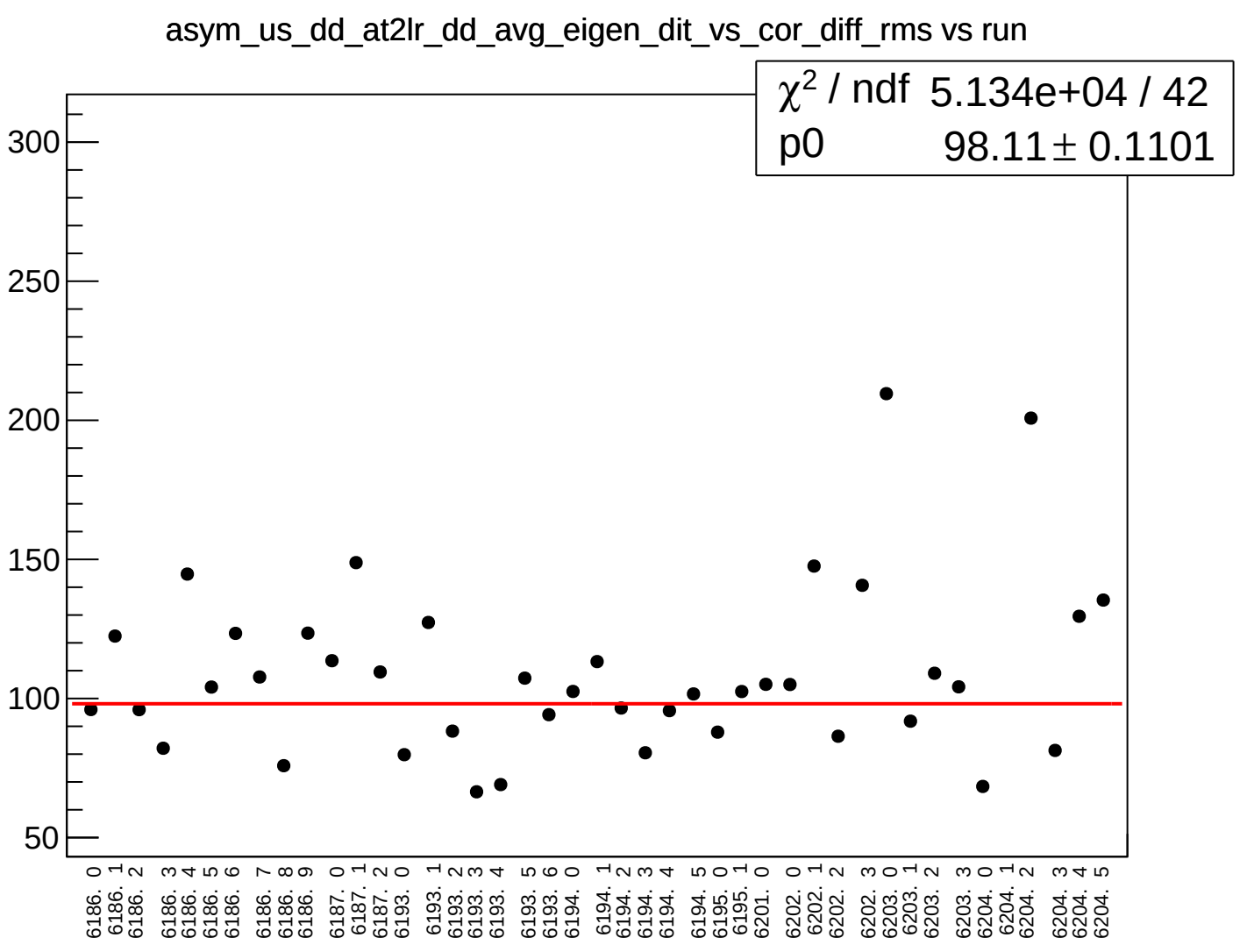


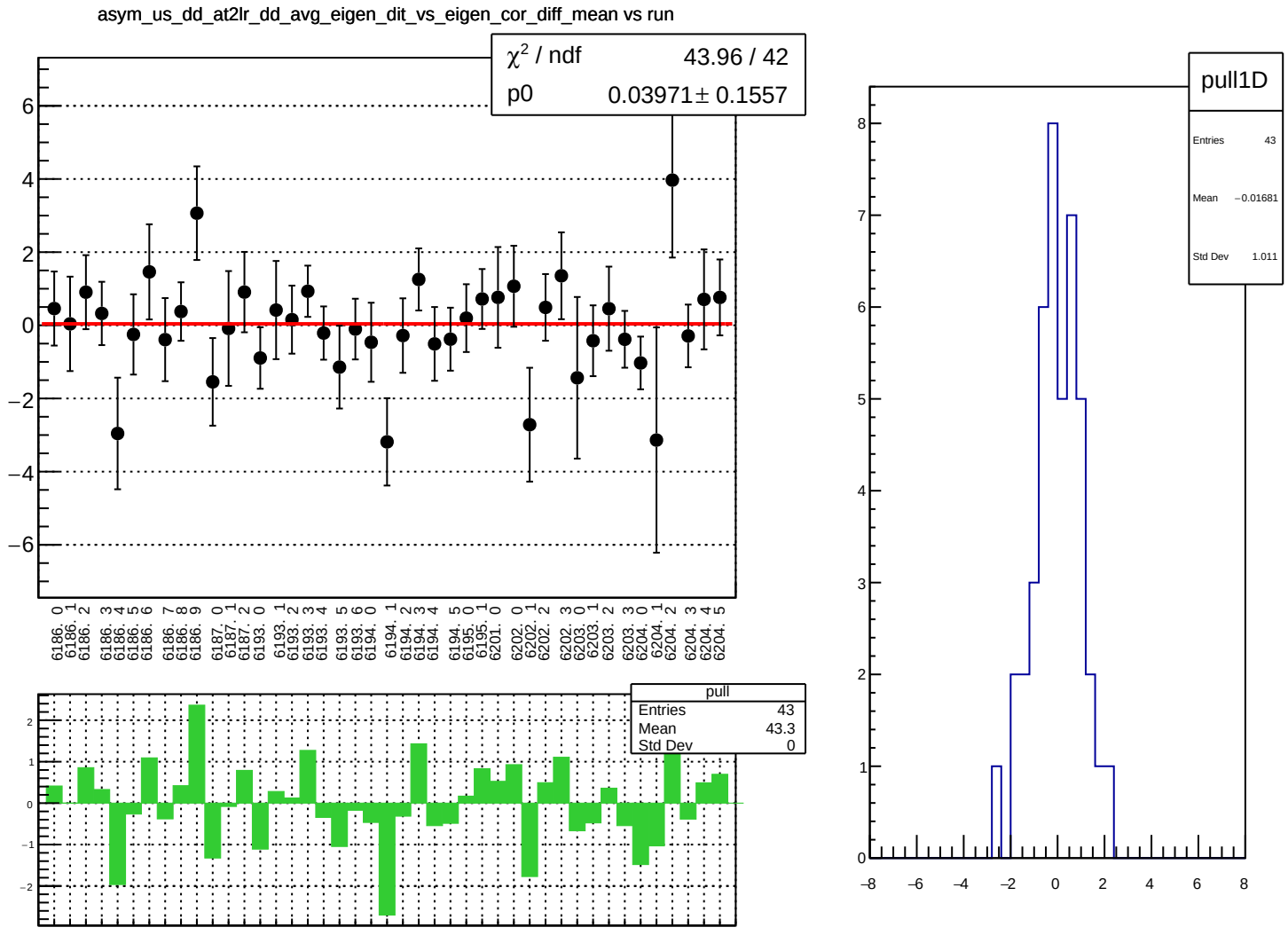

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.133e+04 / 42
p0 98.12 ± 0.1101
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

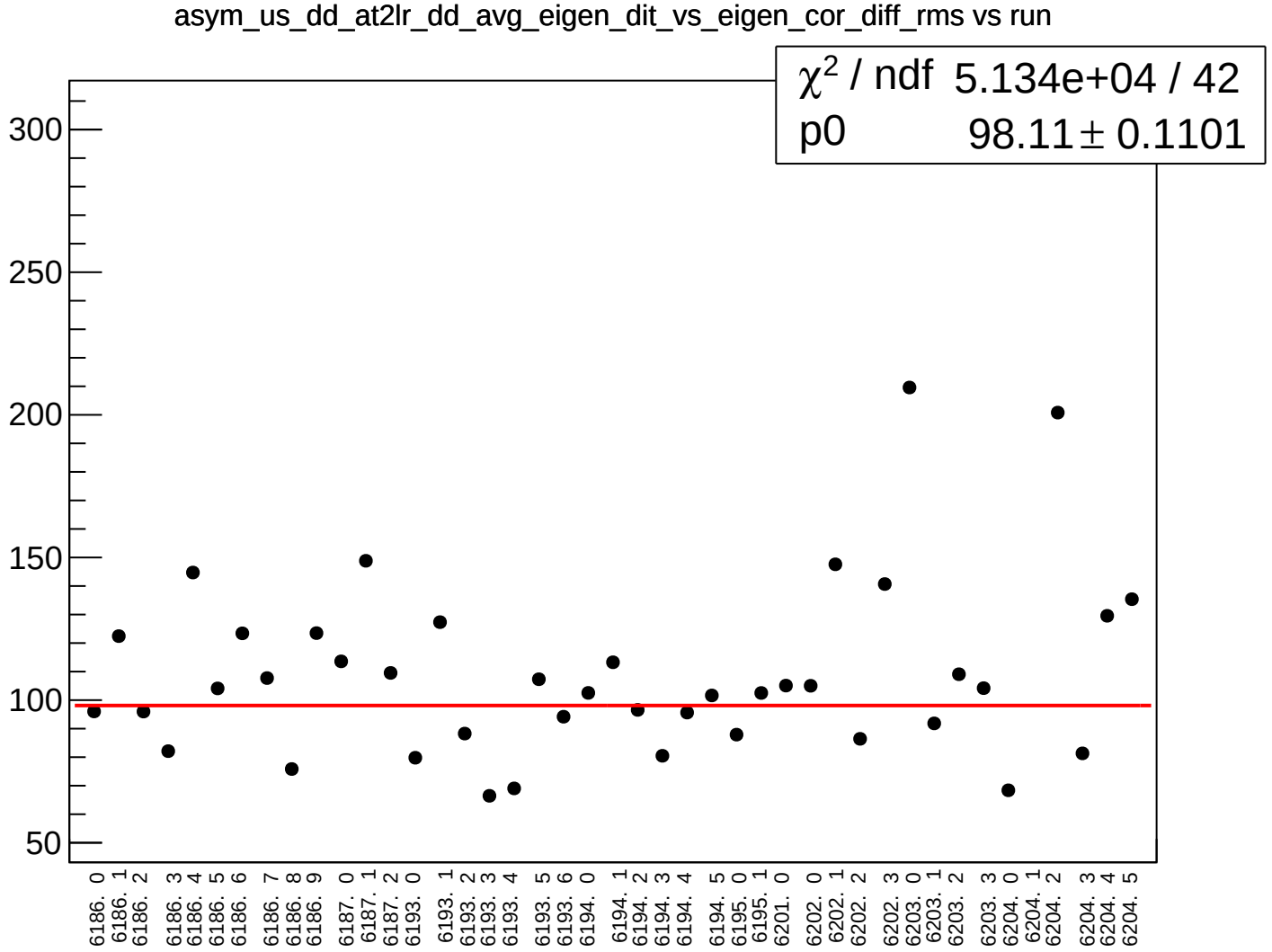

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 55.24 / 42
p0 2.882e−05 ± 3.312e−05
0.001
0.0005
0
−0.0005
−0.001
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 280.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.004757
Std Dev 1.133
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

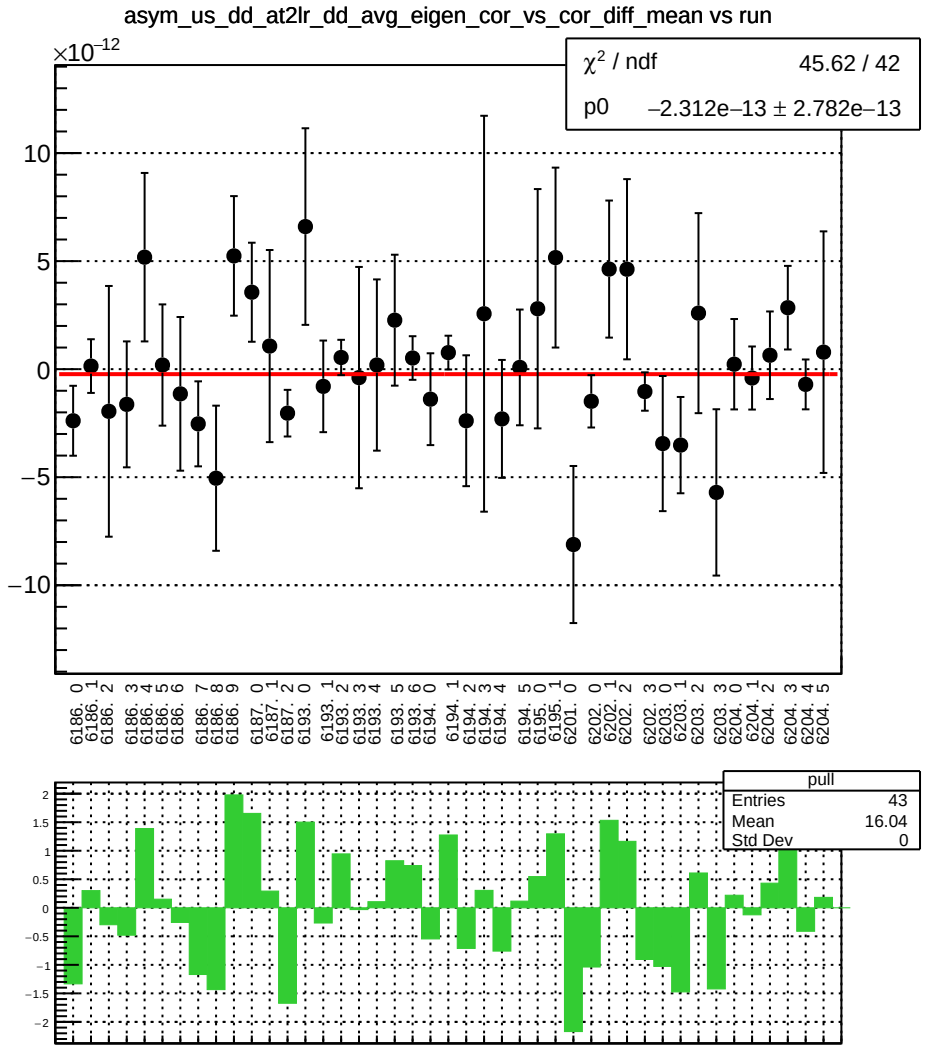

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4375 / 42
p0 0.02148 ± 2.342e–05
0.025
0.024
0.023
0.022
0.021
0.02
0.019
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

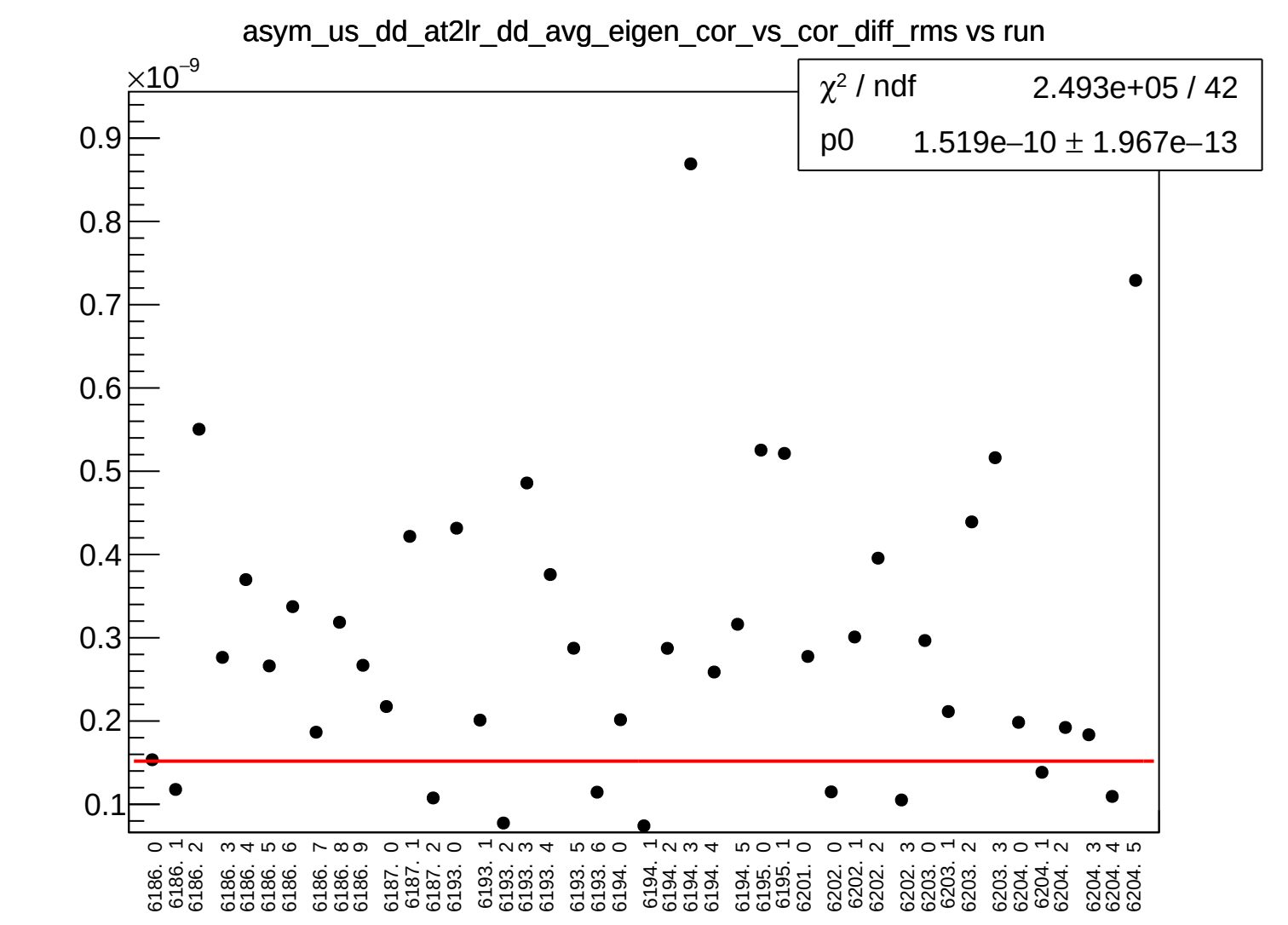

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 43.96 / 42
p0 0.03971 ± 0.1557
pull
Entries 43
Mean 43.3
Std Dev 0
pull1D
Entries 43
Mean −0.01681
Std Dev 1.011

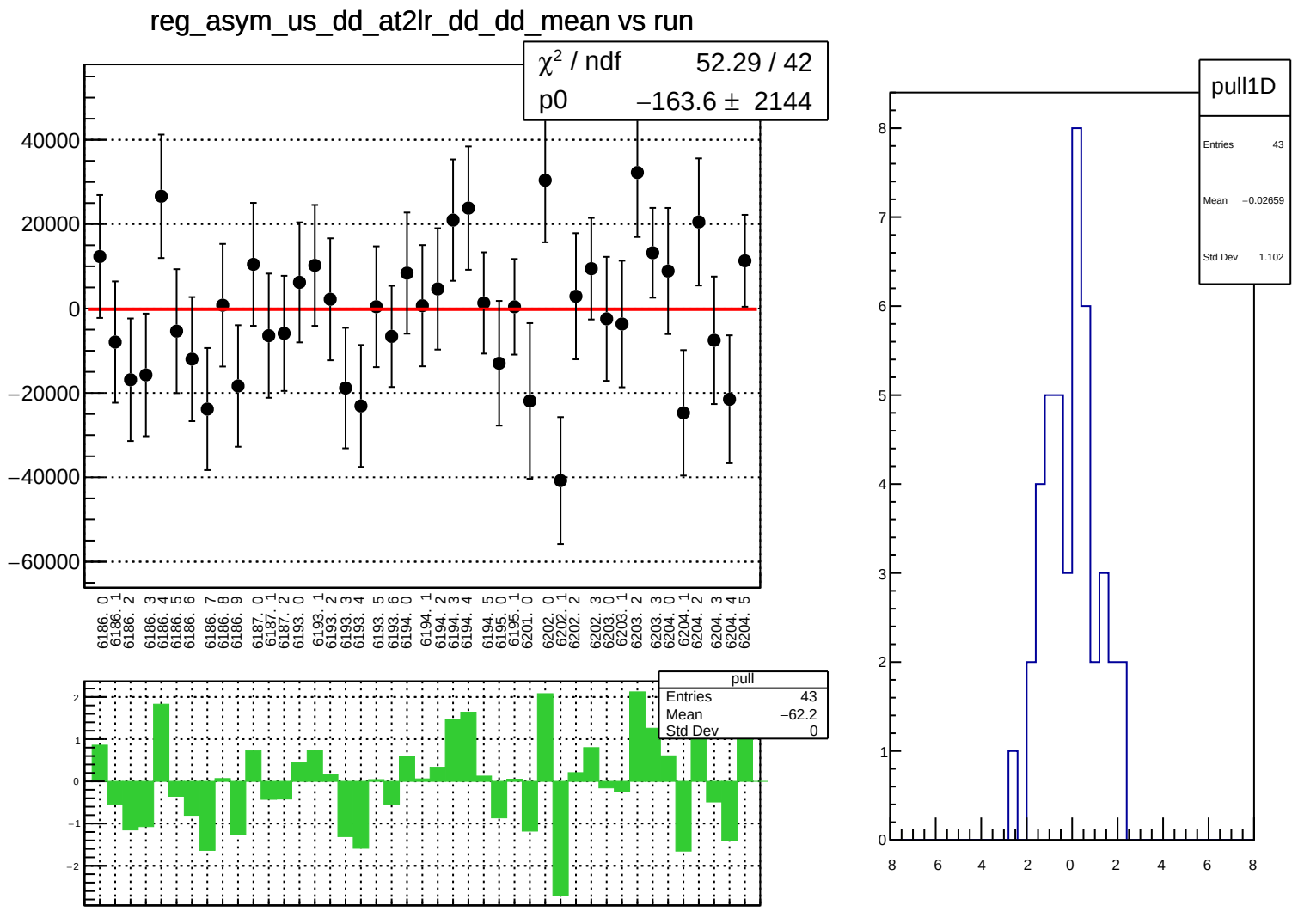

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.134e+04 / 42
p0 98.11 ± 0.1101
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

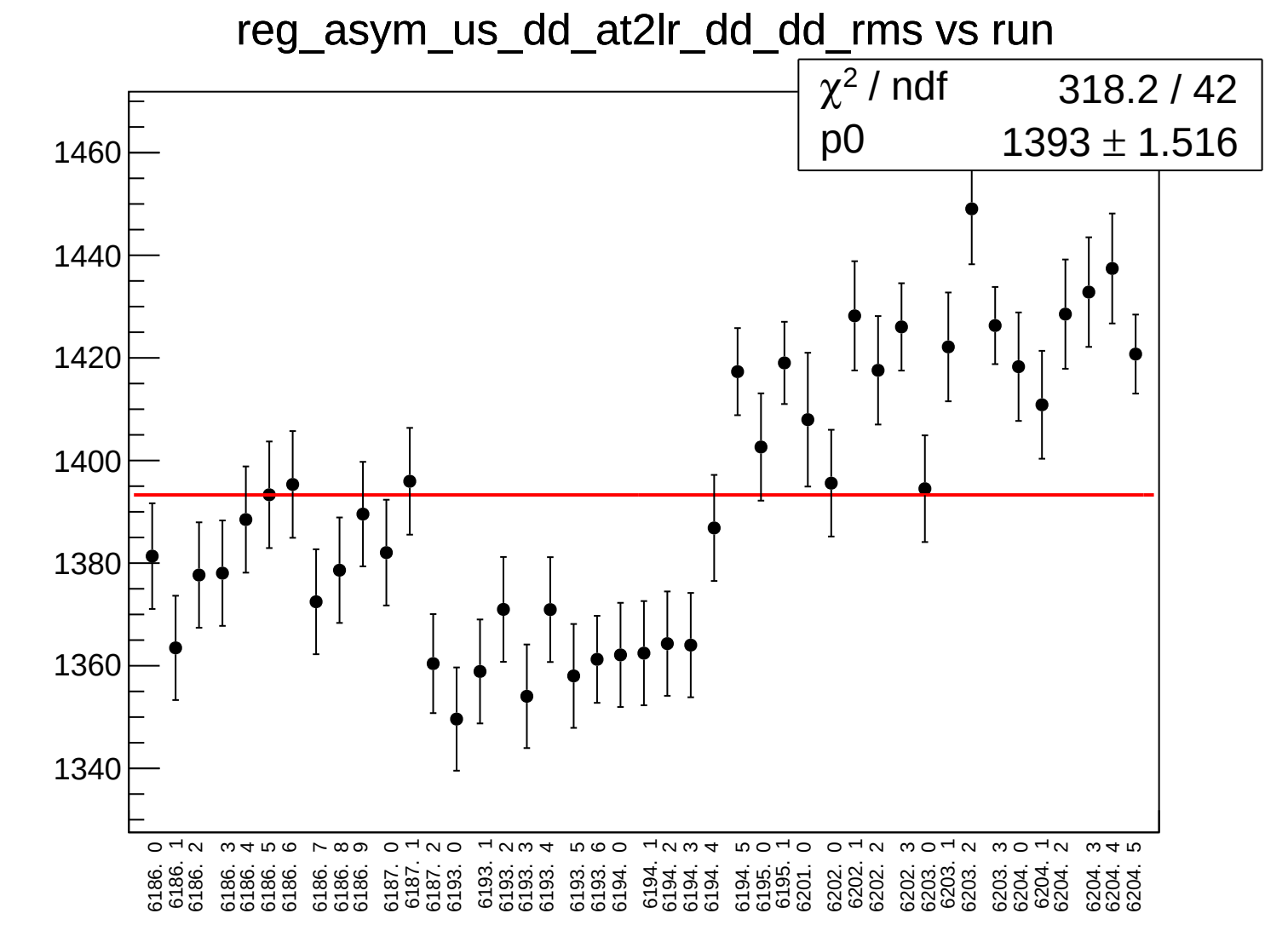

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.96 / 42
p0 0.03971 ± 0.1557
pull
Entries 43
Mean 43.3
Std Dev 0
pull1D
Entries 43
Mean −0.01681
Std Dev 1.011

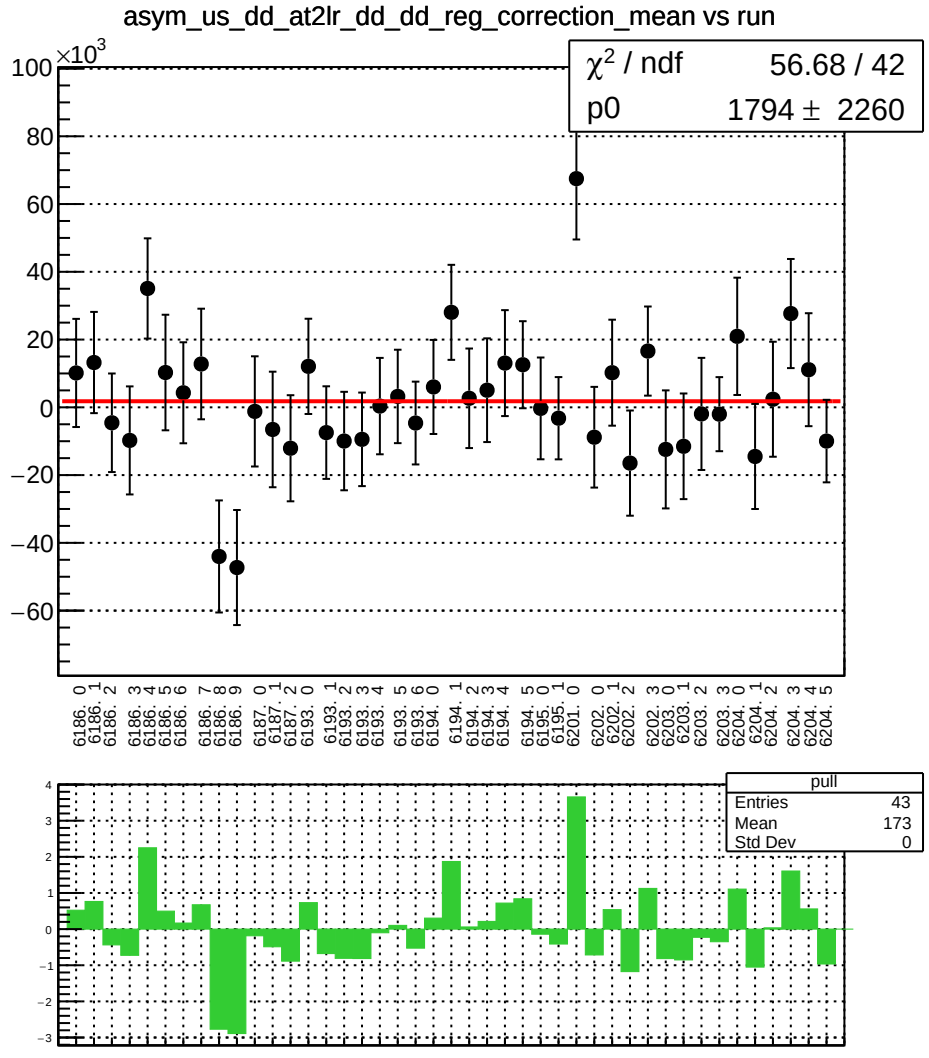

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.134e+04 / 42
p0 98.11 ± 0.1101
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

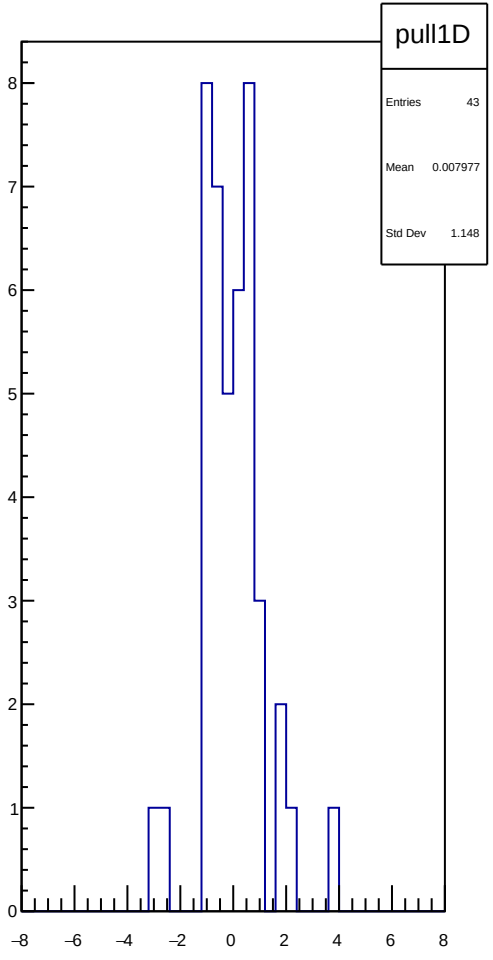

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 45.62 / 42
p0 −2.312e−13 ± 2.782e−13
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 16.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.03783
Std Dev 1.029
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

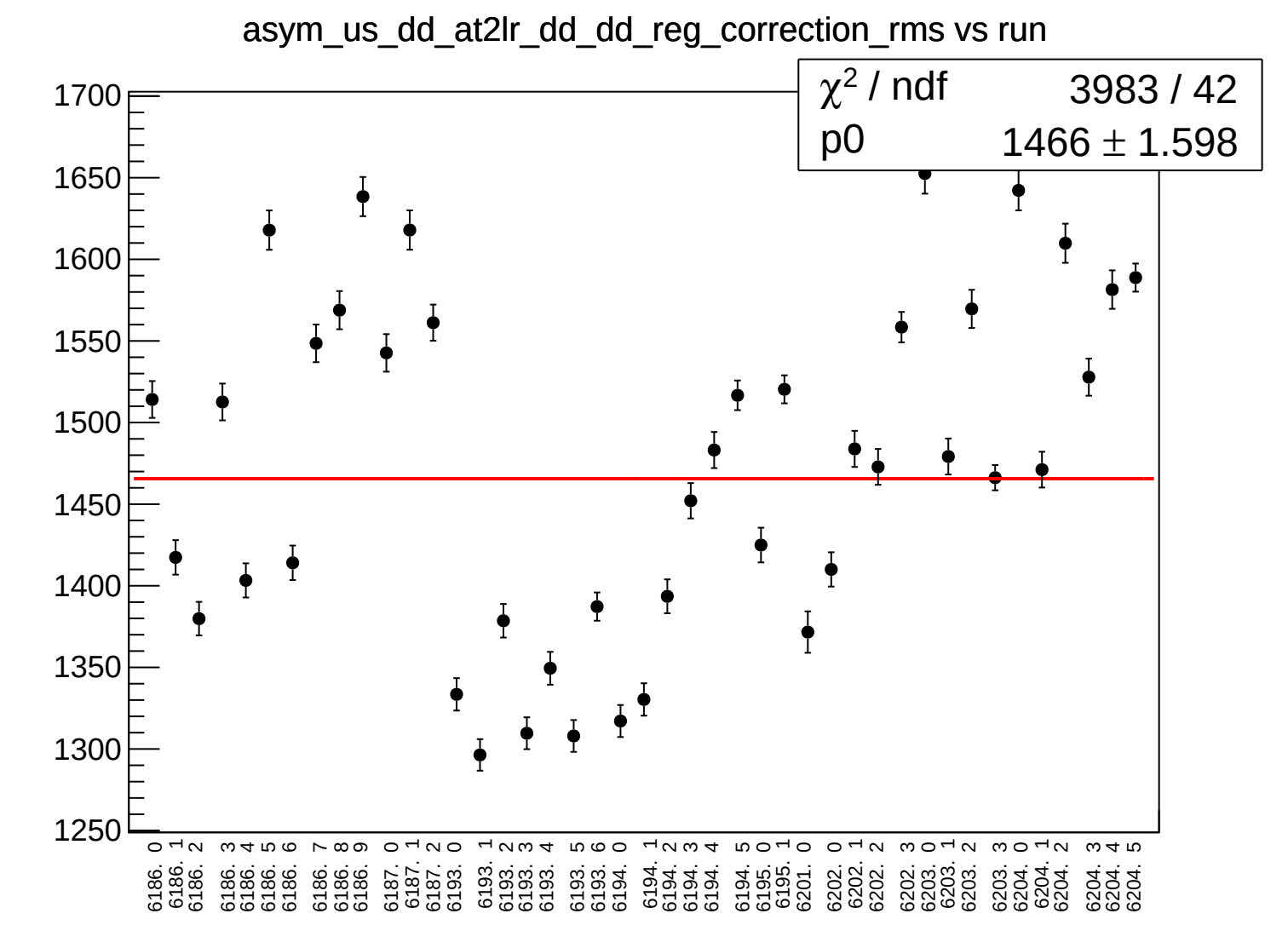

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.493e+05 / 42
p0 1.519e−10 ± 1.967e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 52.29 / 42
p0 −163.6 ± 2144
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −62.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02659
Std Dev 1.102
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 318.2 / 42
p0 1393 ± 1.516
1460
1440
1420
1400
1380
1360
1340
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 56.68 / 42
p0 1794 ± 2260
pull
Entries 43
Mean 173
Std Dev 0


pull1D
Entries 43
Mean 0.007977
Std Dev 1.148


asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3983 / 42
p0 1466 ± 1.598
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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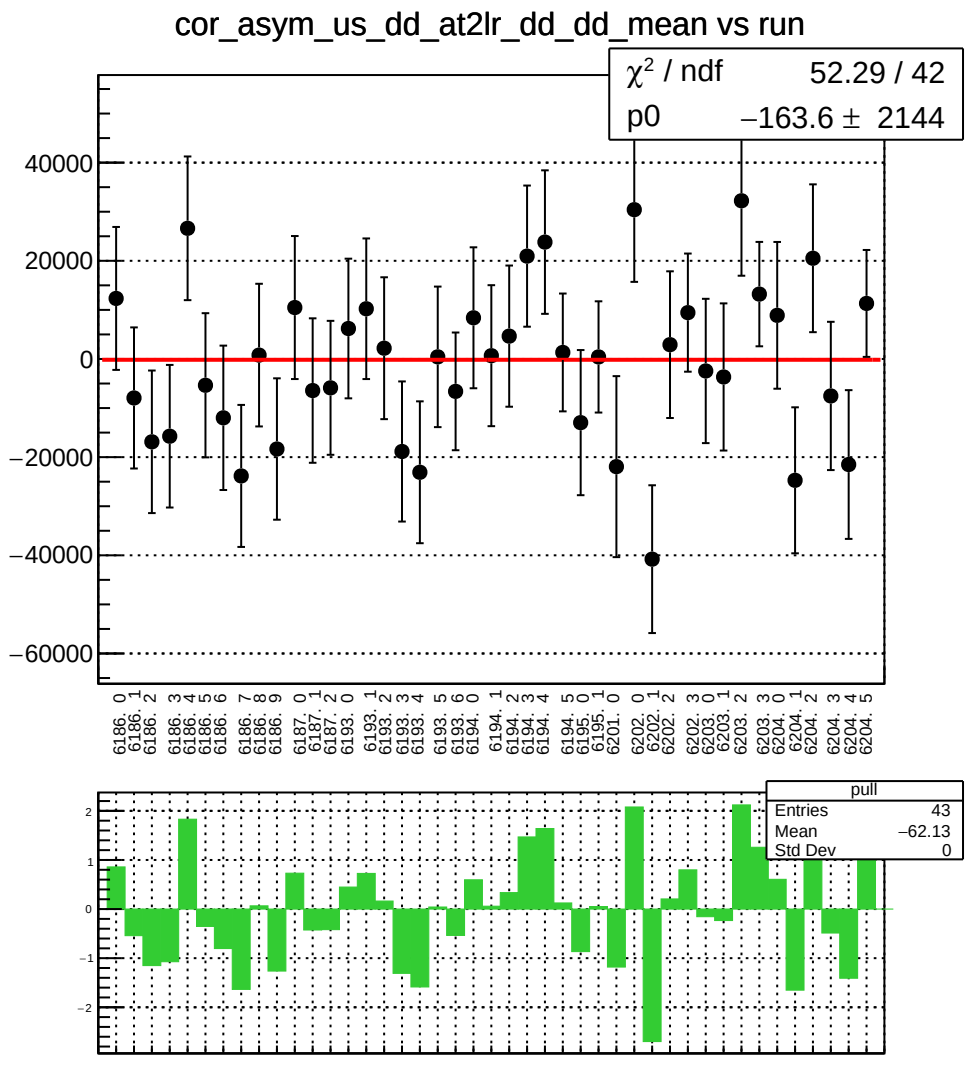
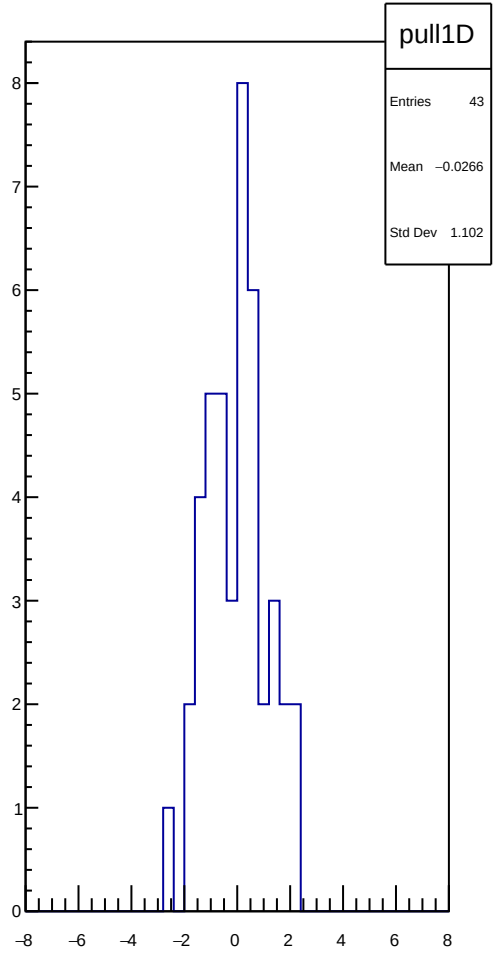
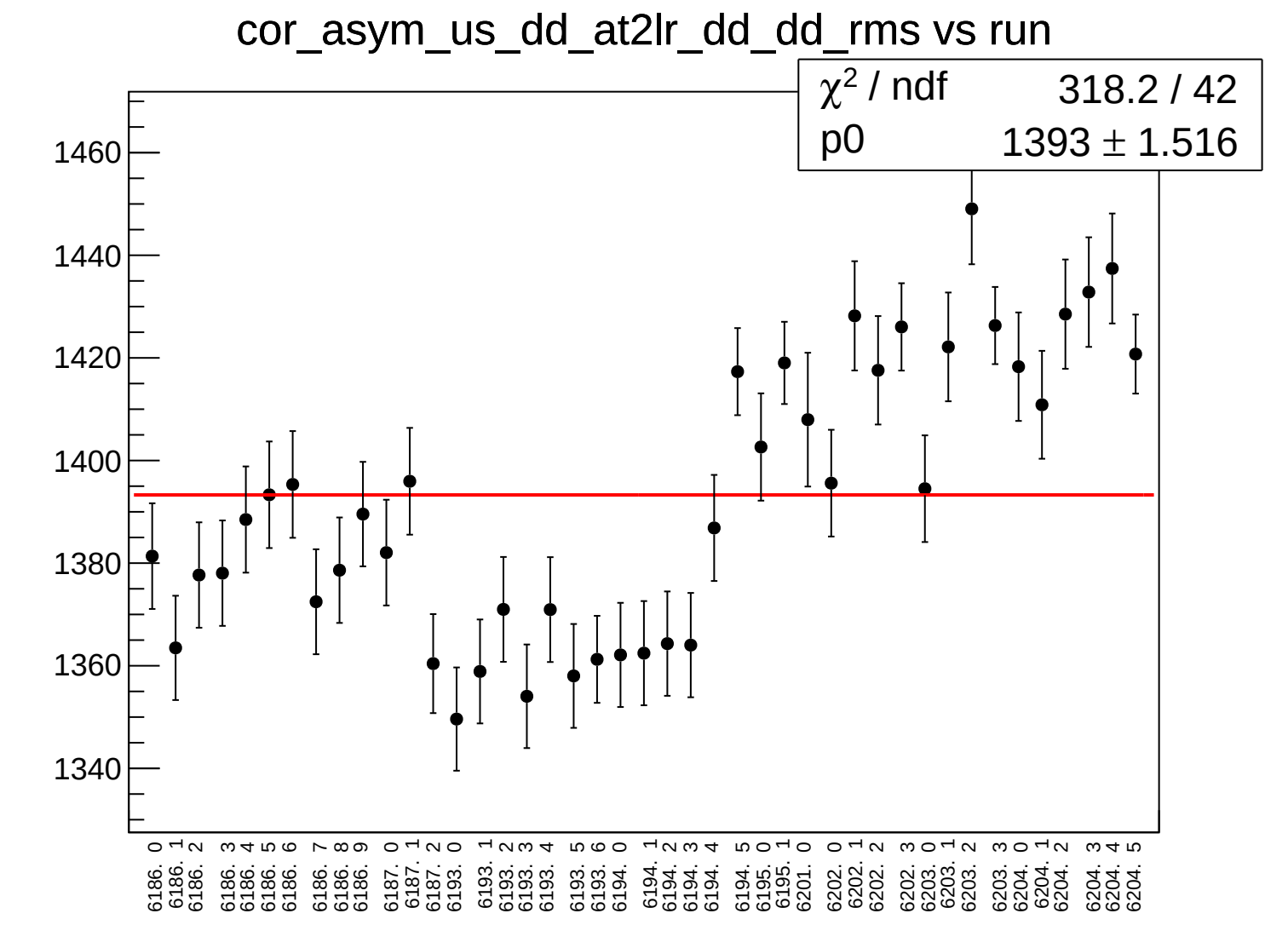
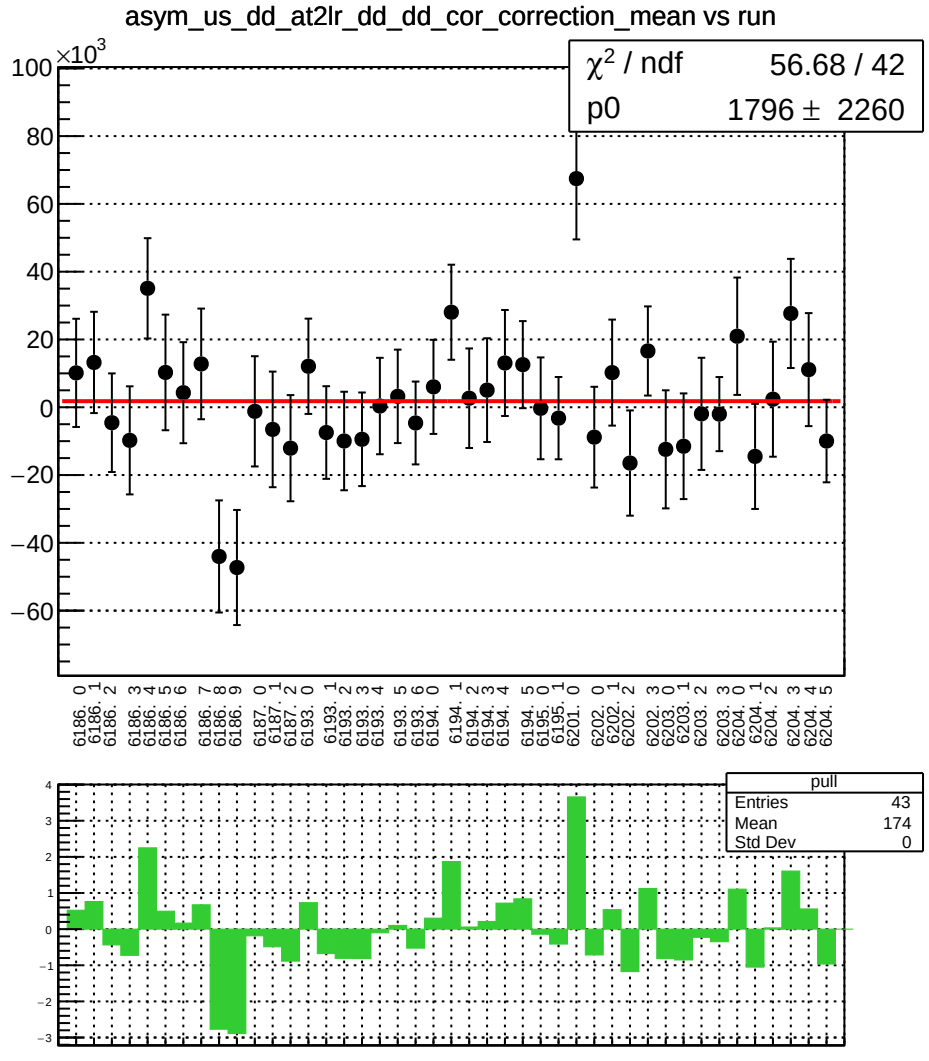
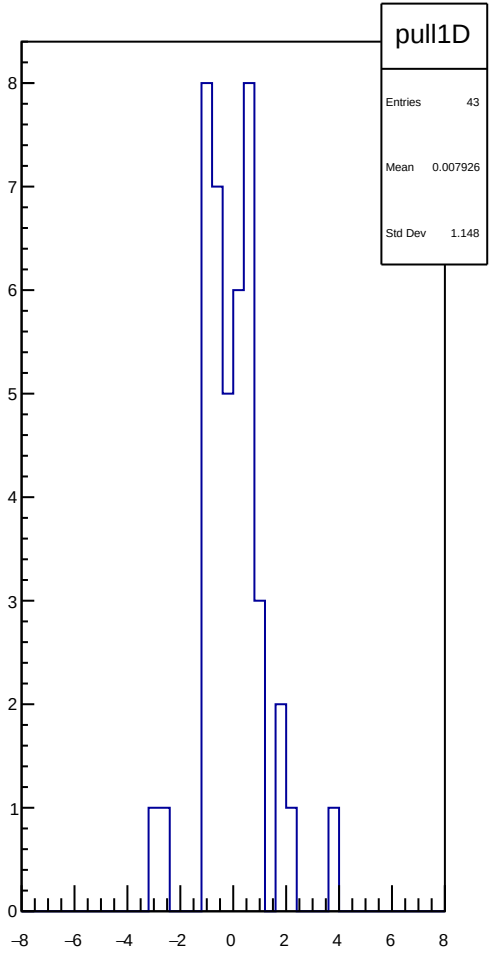
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

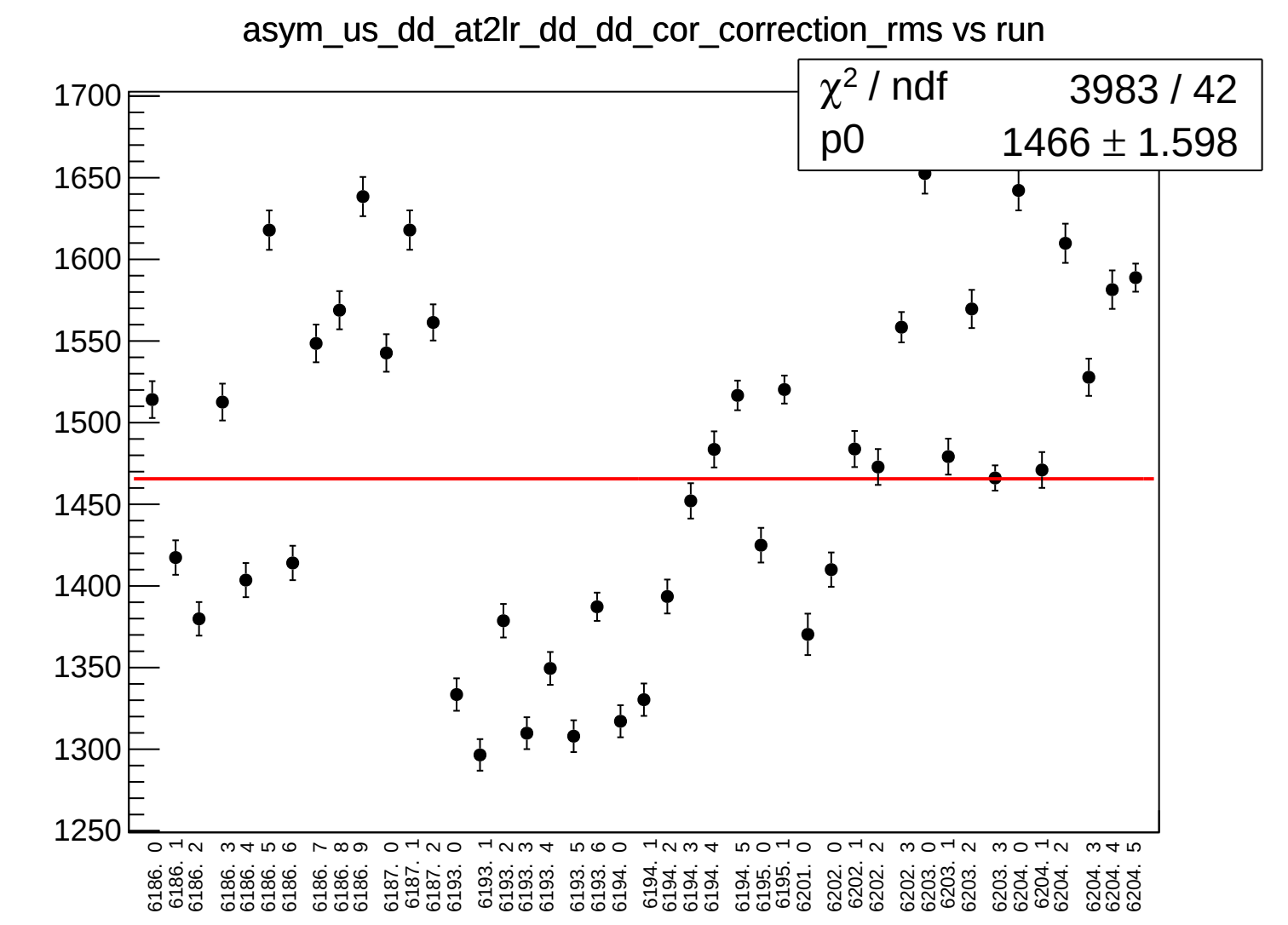

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 52.29 / 42
p0 −163.6 ± 2144
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −62.13
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.0266
Std Dev 1.102
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 318.2 / 42
p0 1393 ± 1.516
1460
1440
1420
1400
1380
1360
1340
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 56.68 / 42
p0 1796 ± 2260
pull
Entries 43
Mean 174
Std Dev 0


pull1D
Entries 43
Mean 0.007926
Std Dev 1.148


asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3983 / 42
p0 1466 ± 1.598
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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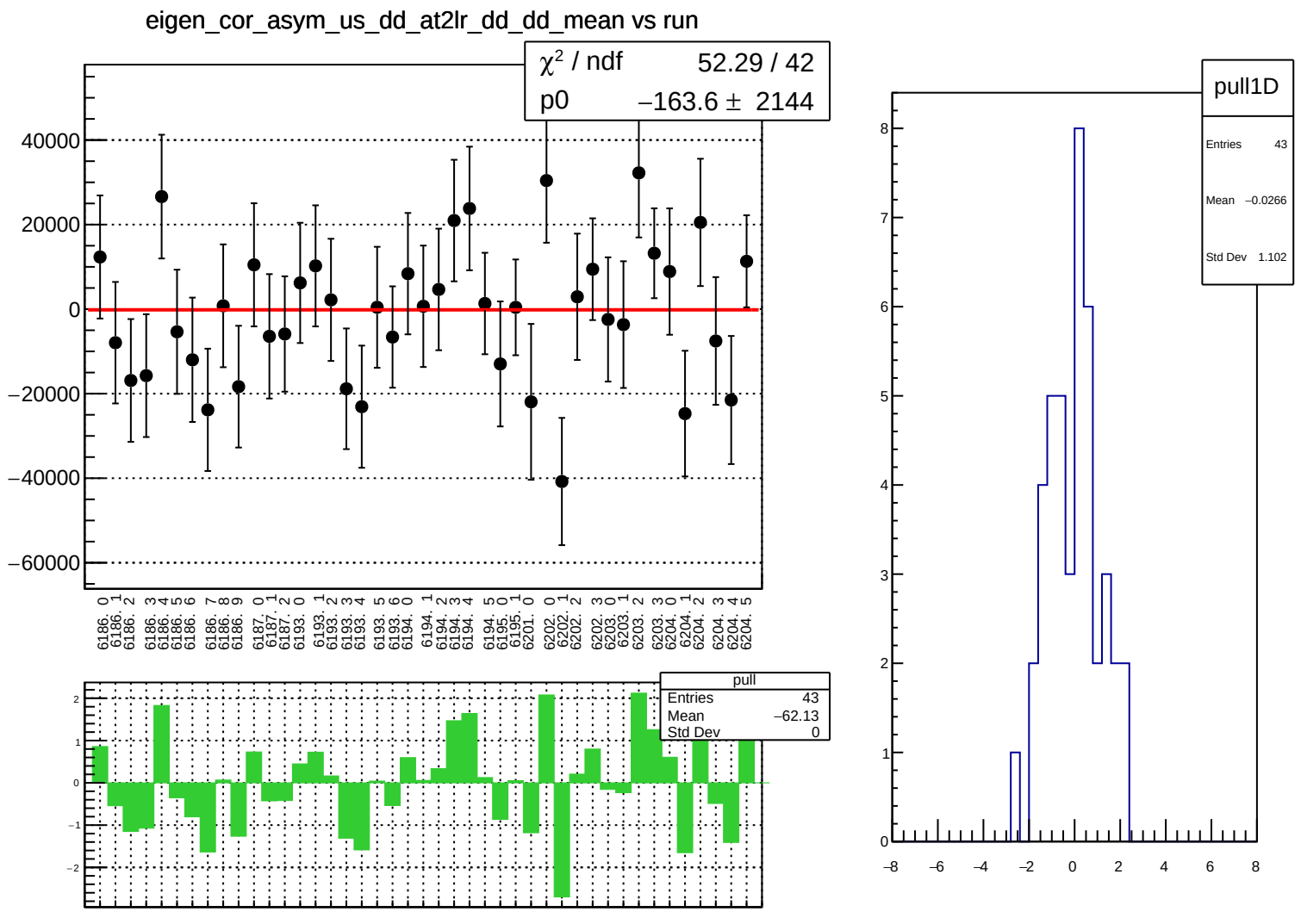
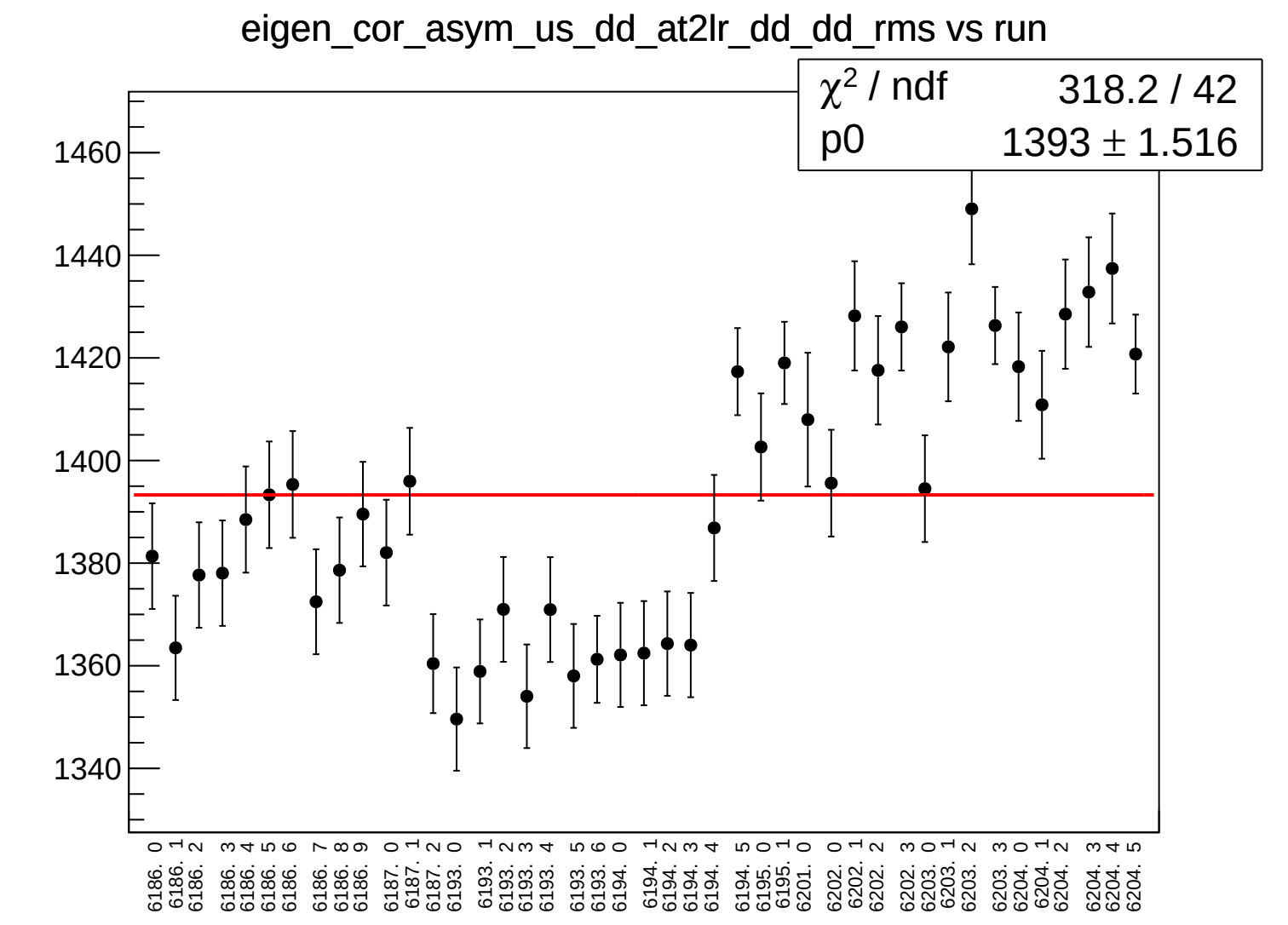
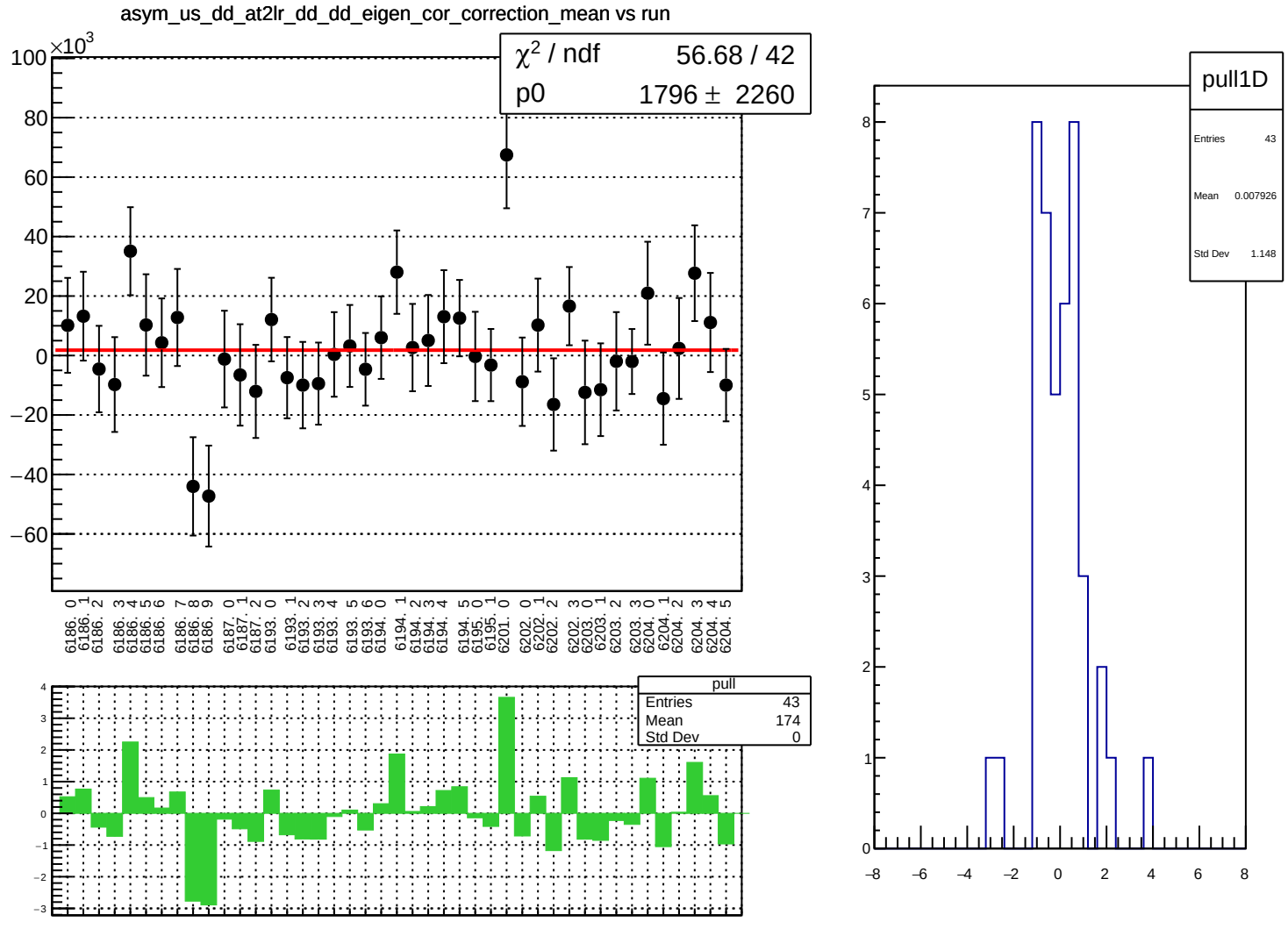
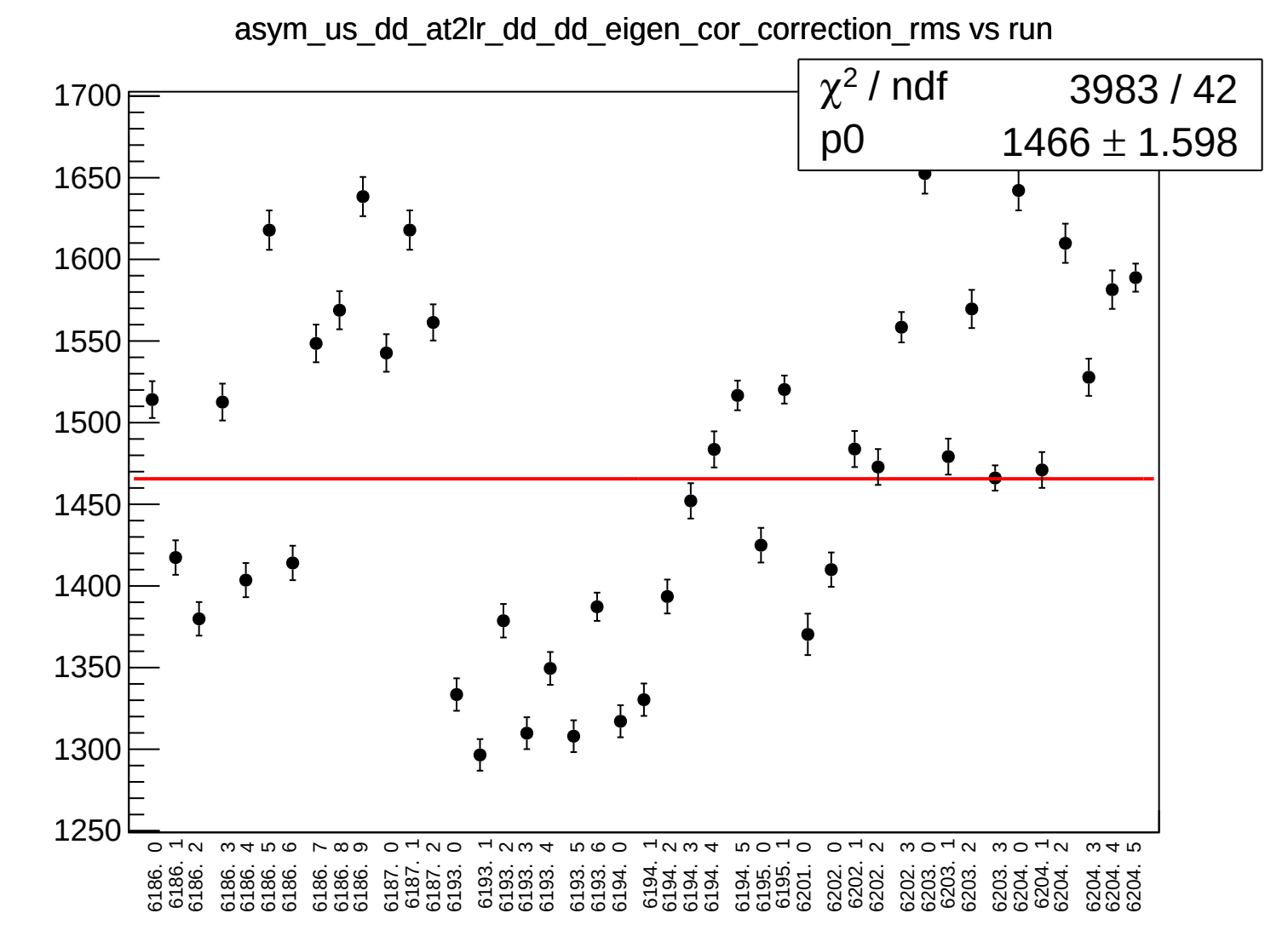
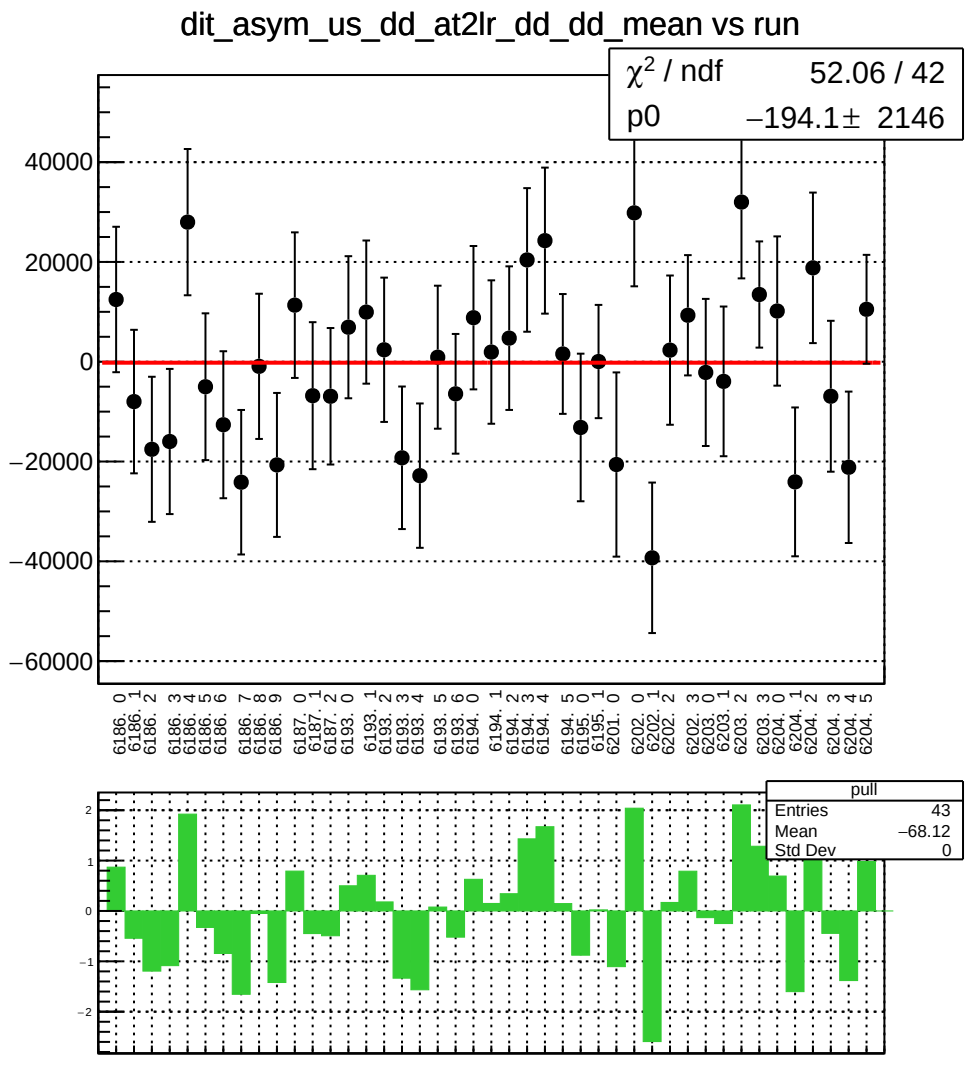
6204. 2
6204. 3
6204. 4
6204. 5

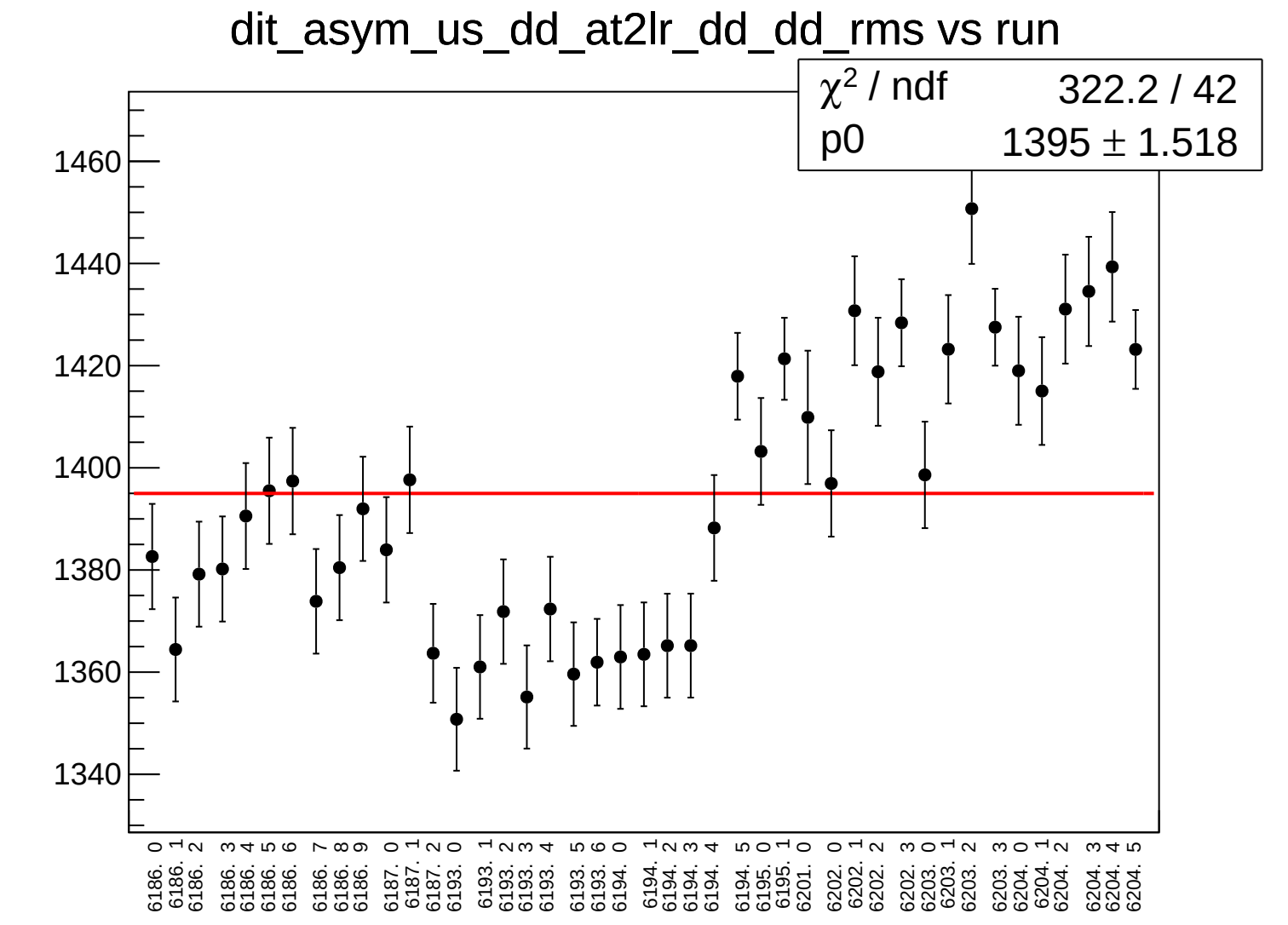

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 52.29 / 42
p0 −163.6 ± 2144
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −62.13
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0266
Std Dev 1.102
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 318.2 / 42
p0 1393 ± 1.516
1460
1440
1420
1400
1380
1360
1340
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 56.68 / 42
p0 1796 ± 2260
×10³
pull
Entries 43
Mean 174
Std Dev 0
pull1D
Entries 43
Mean 0.007926
Std Dev 1.148


asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3983 / 42
p0 1466 ± 1.598
1700
1650
1600
1550
1500
1450
1400
1350
1300
1250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 52.06 / 42
p0 −194.1± 2146
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −68.12
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02577
Std Dev 1.1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 322.2 / 42
p0 1395 ± 1.518
1460
1440
1420
1400
1380
1360
1340
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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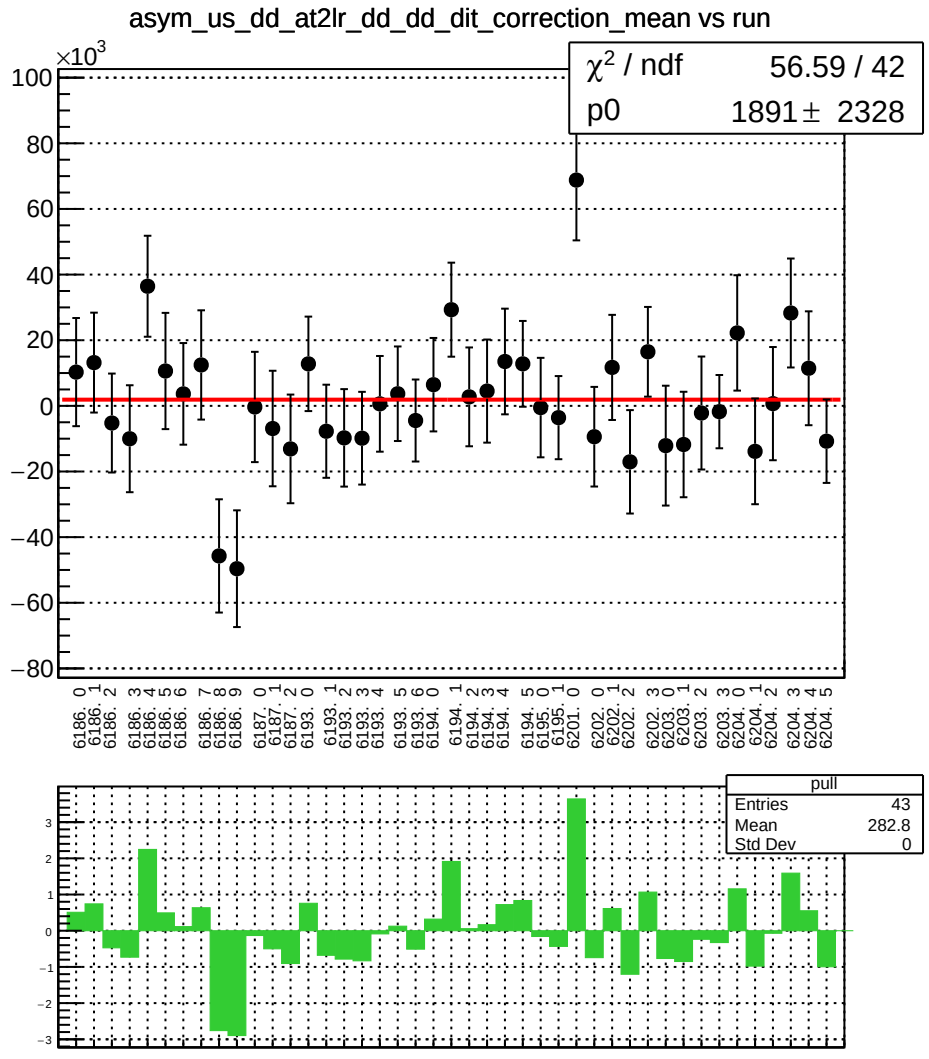
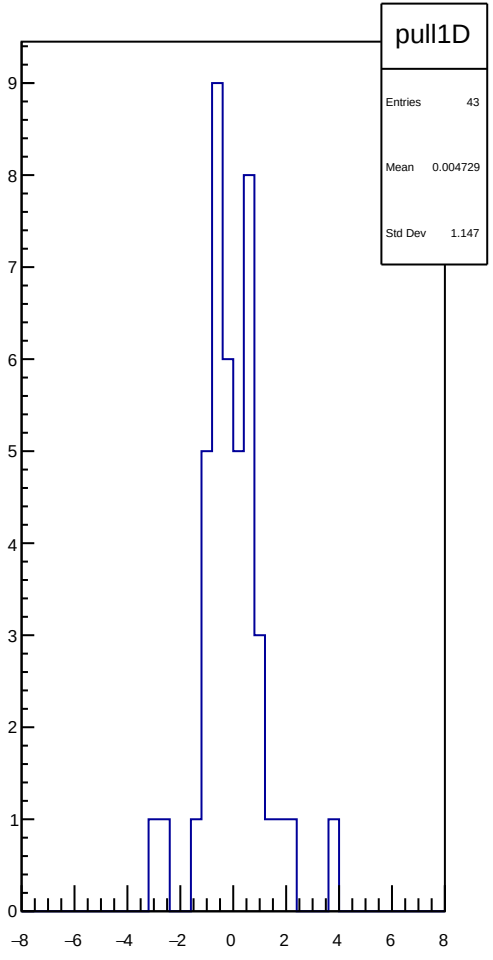
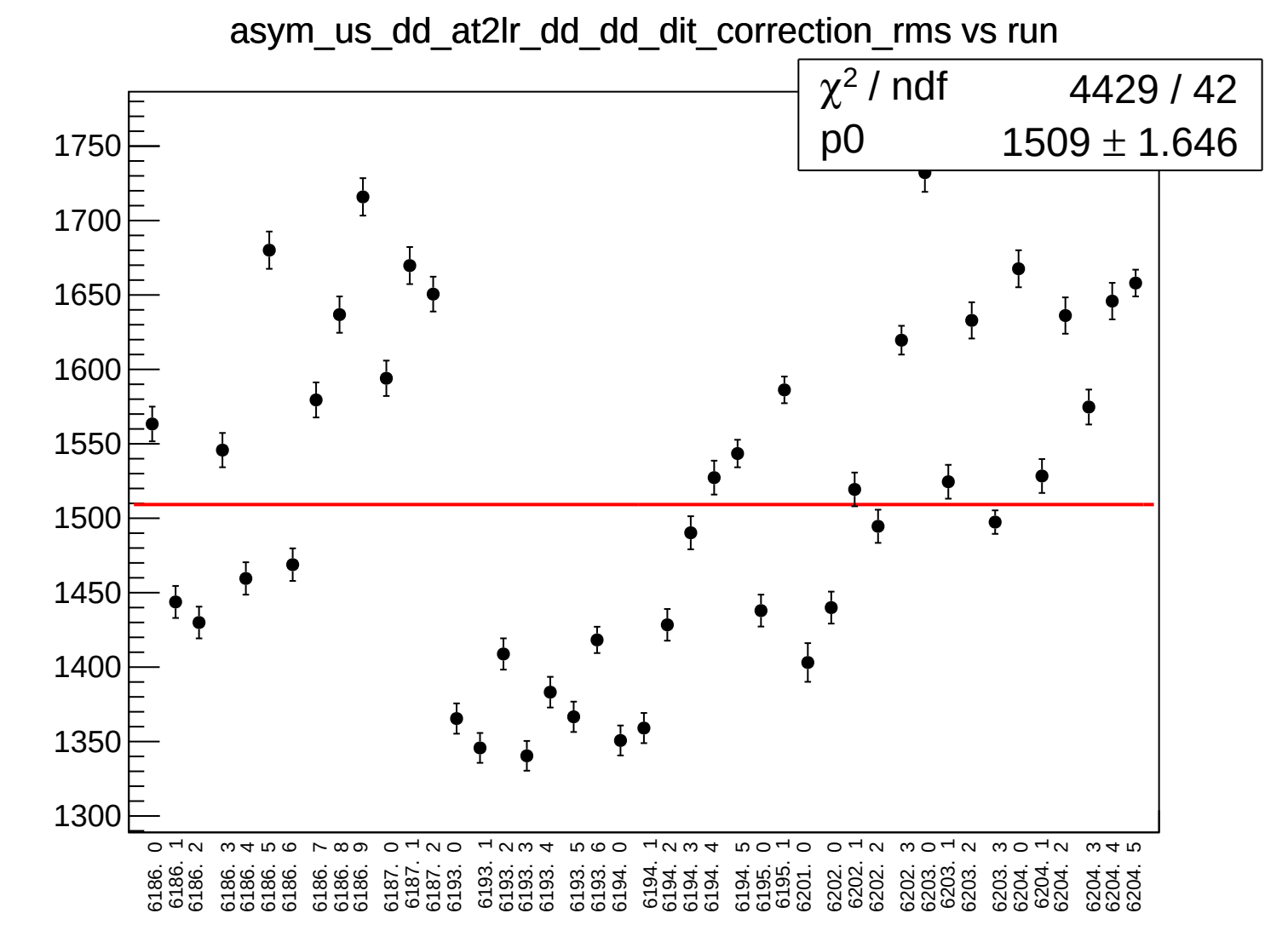
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 56.59 / 42
p0 1891 ± 2328
pull
Entries 43
Mean 282.8
Std Dev 0


pull1D
Entries 43
Mean 0.004729
Std Dev 1.147


asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 4429 / 42
p0 1509 ± 1.646
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
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6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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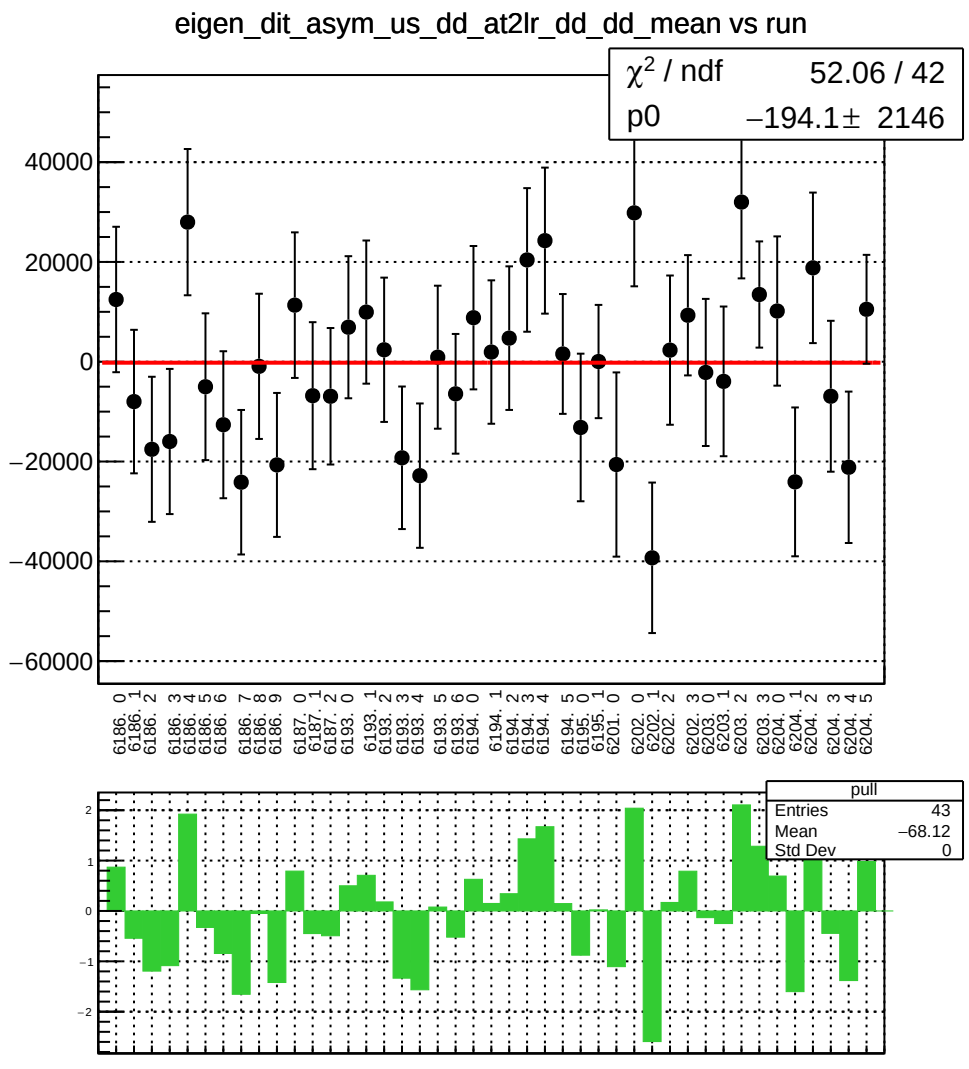
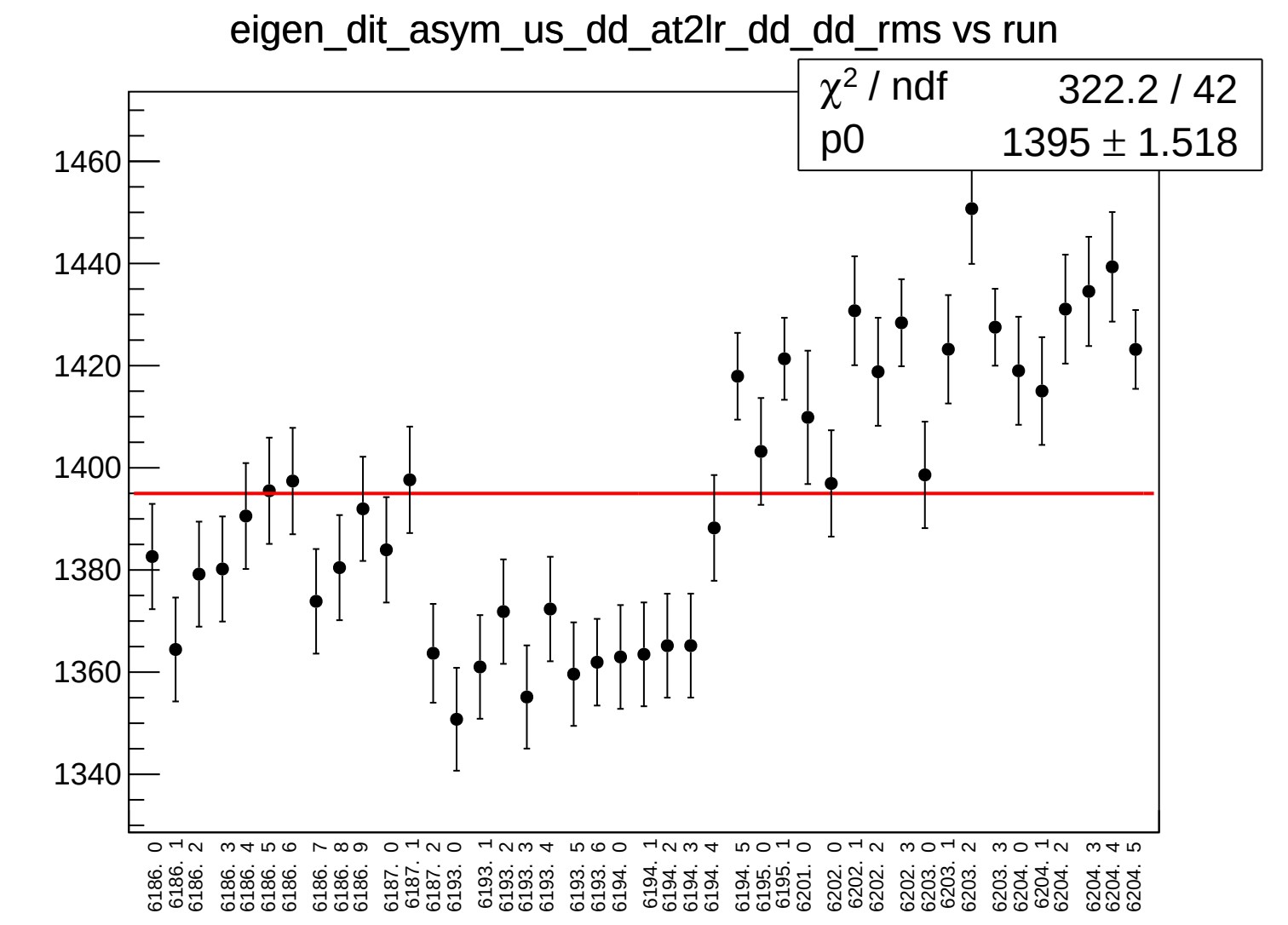
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 52.06 / 42
p0 −194.1± 2146
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −68.12
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02577
Std Dev 1.1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 322.2 / 42
p0 1395 ± 1.518
1460
1440
1420
1400
1380
1360
1340
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 5
6186. 6
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6186. 8
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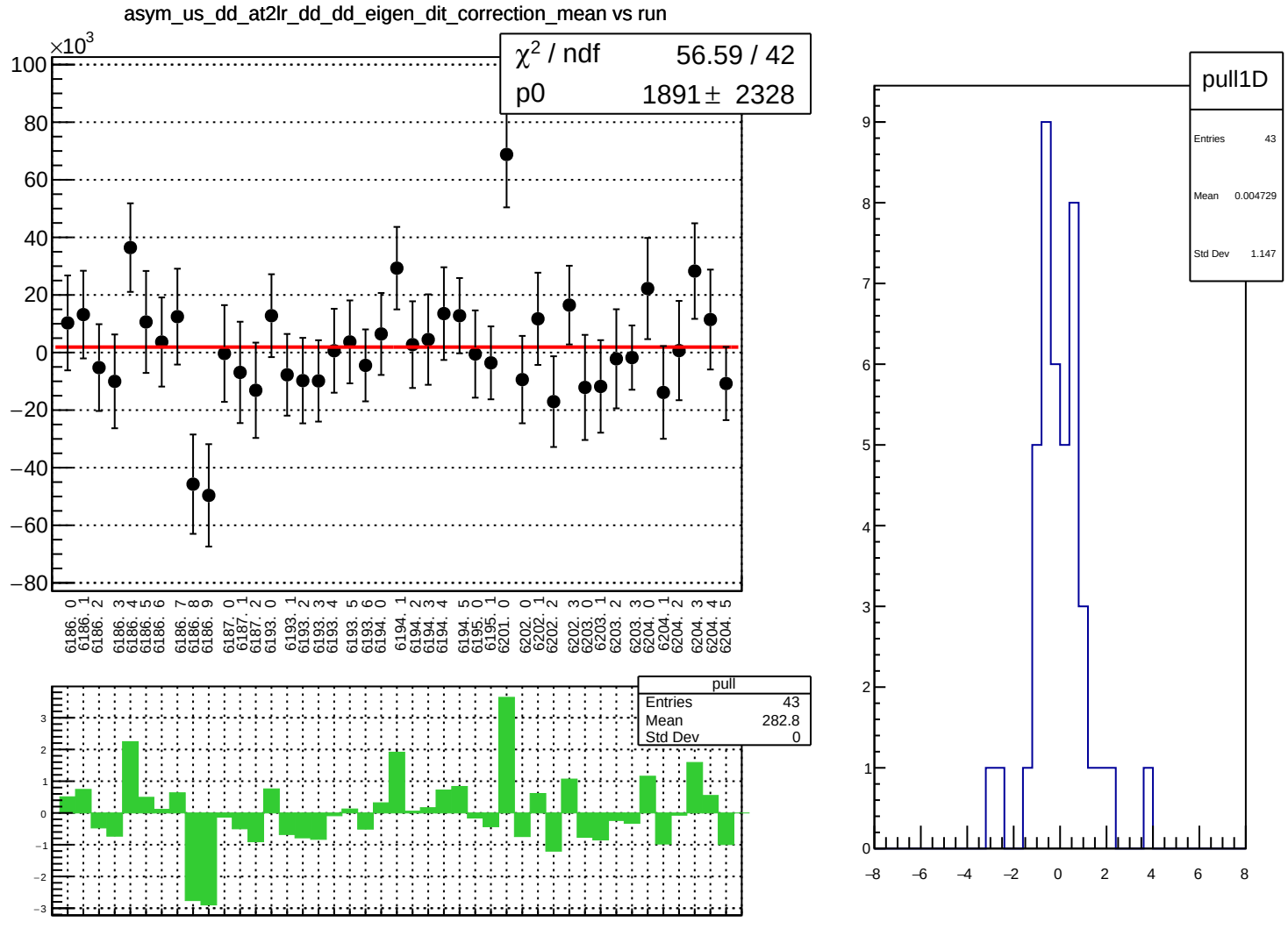
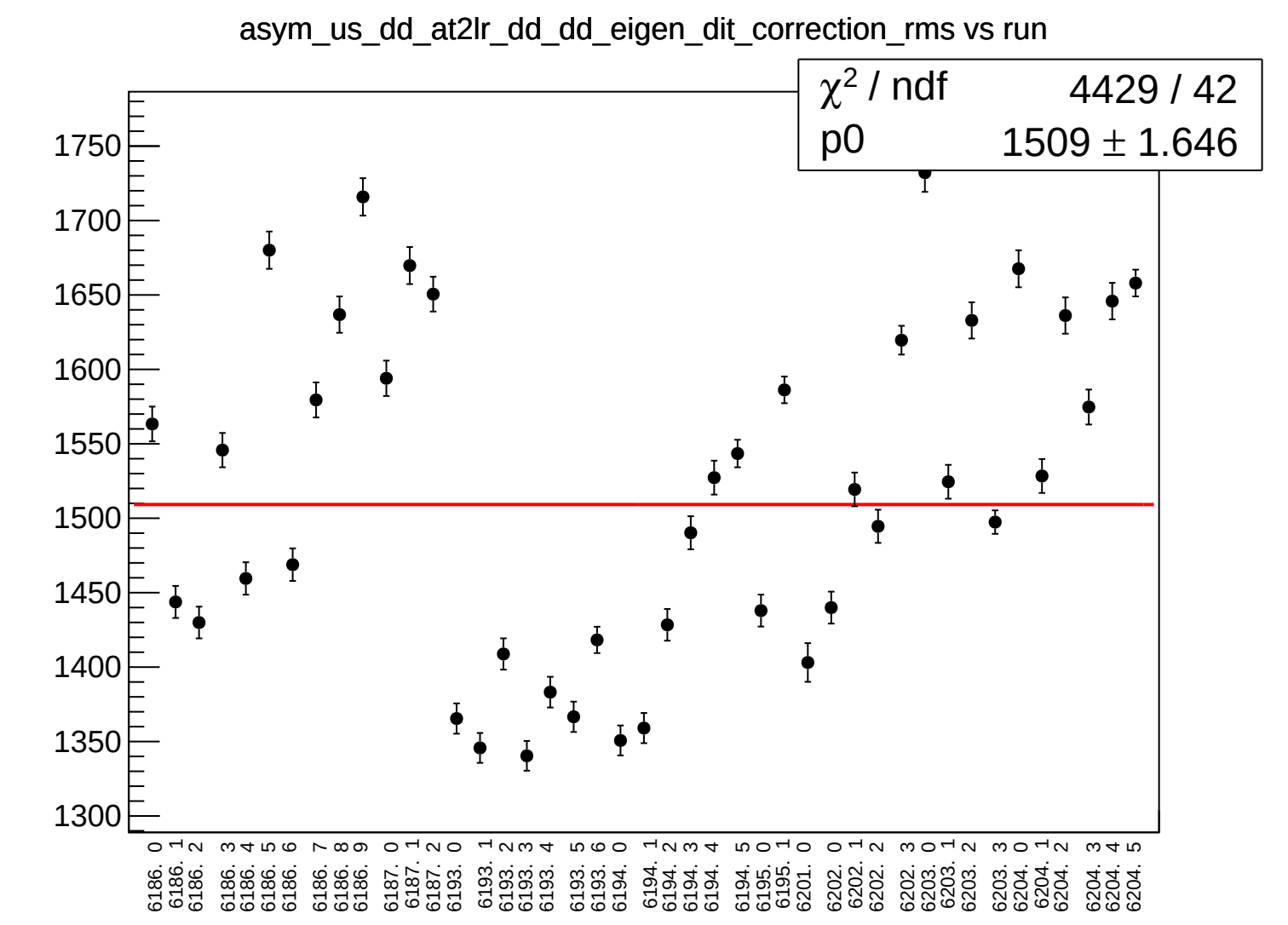
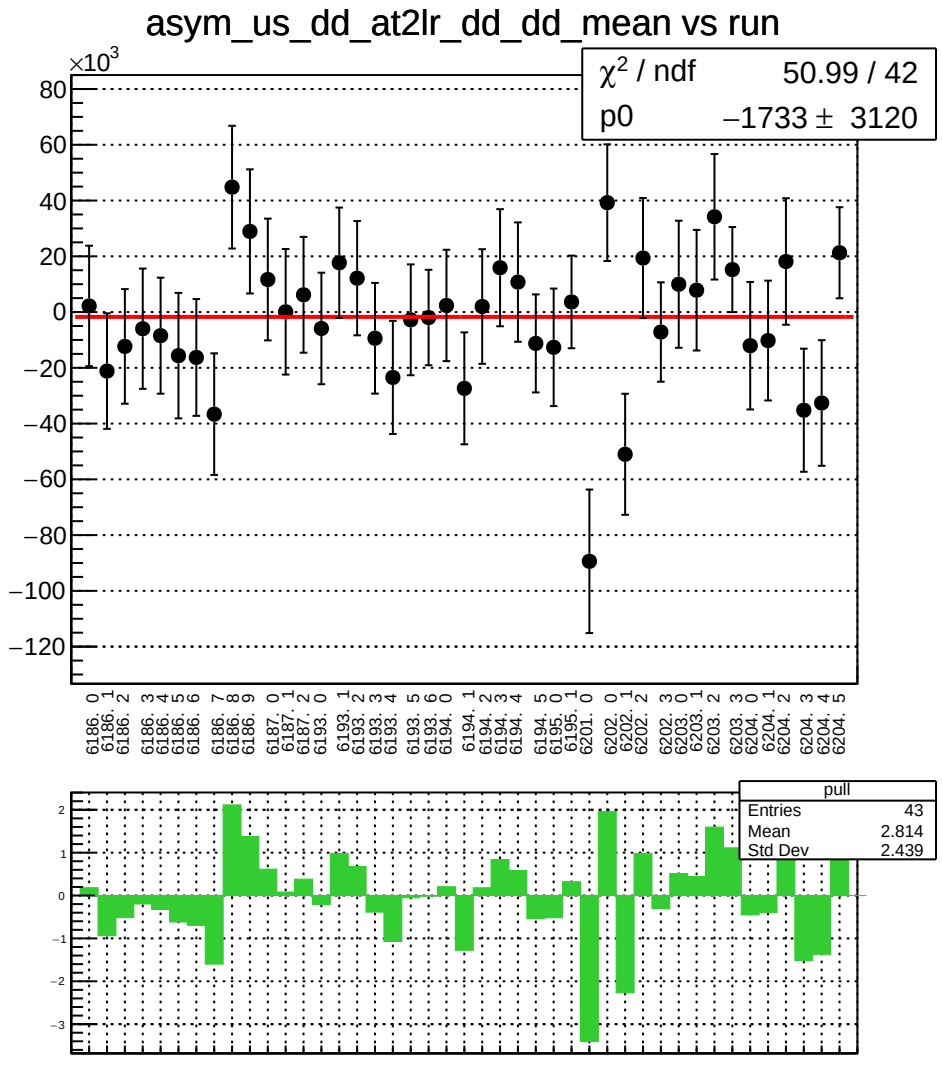
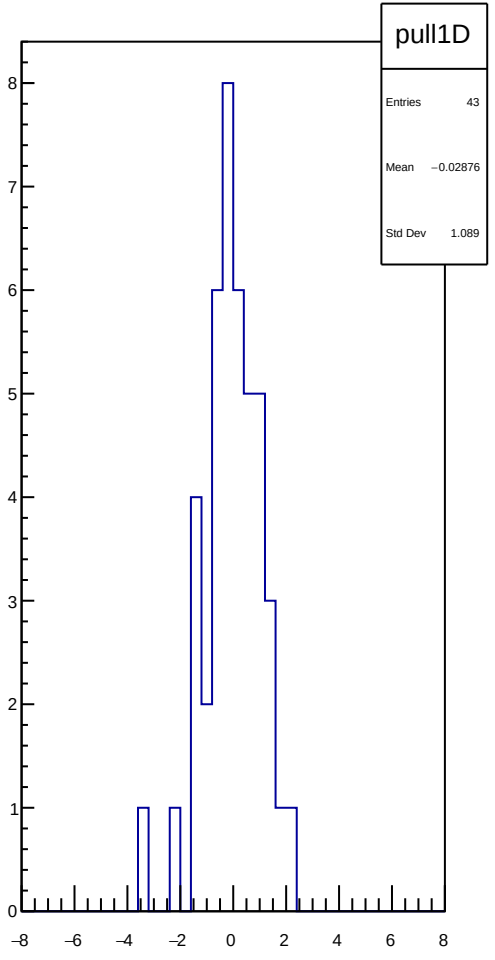
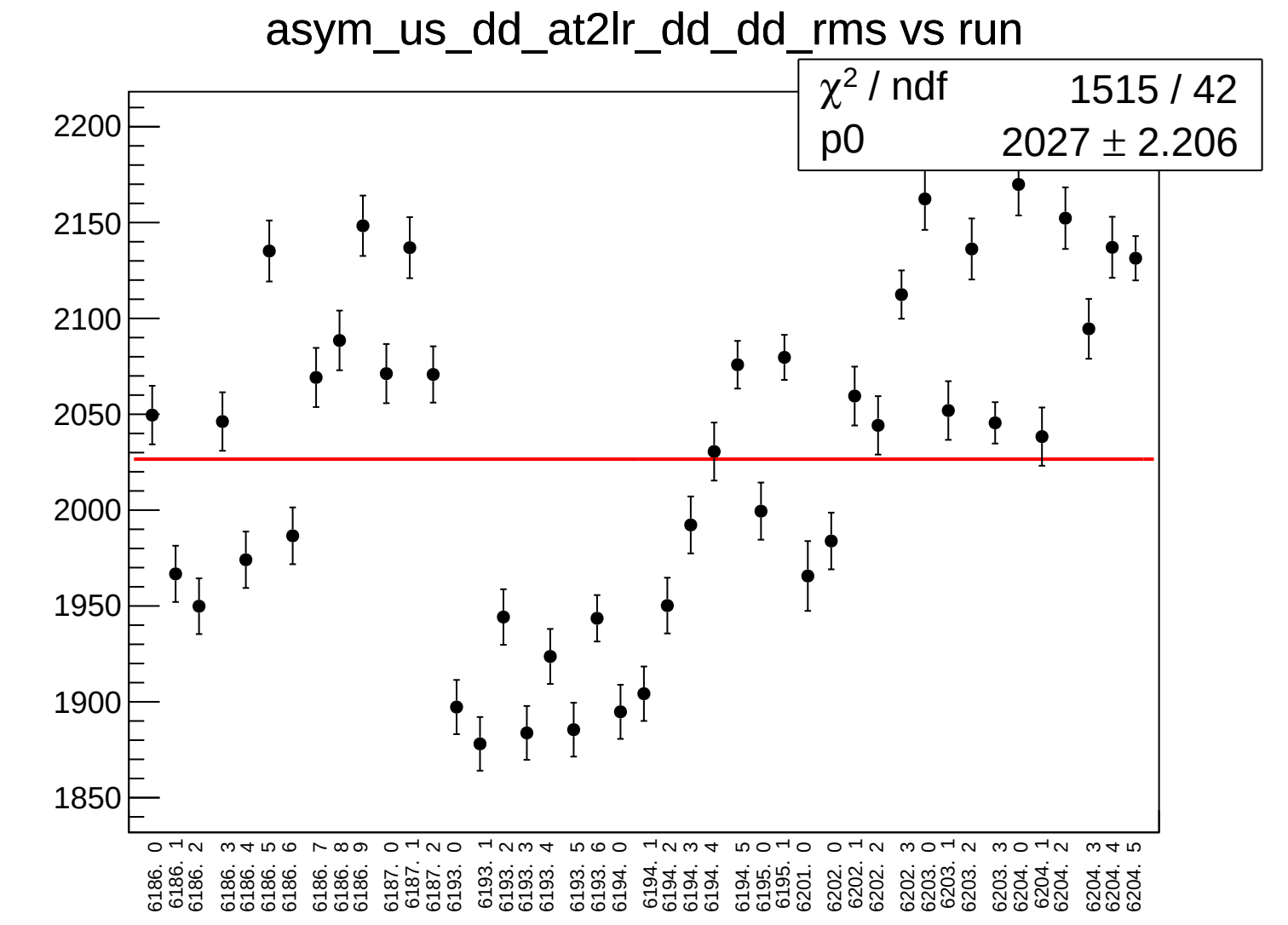
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

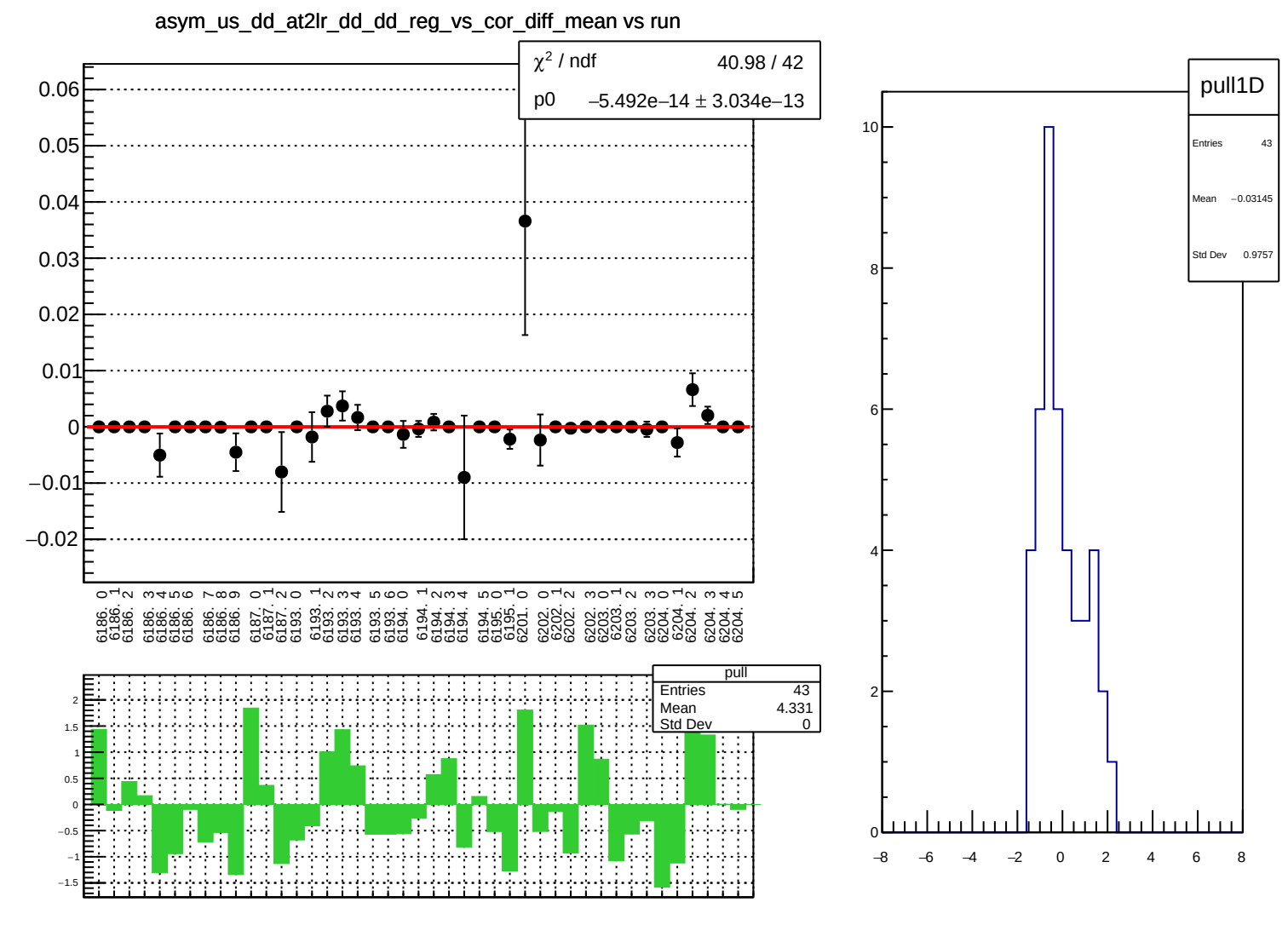

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 56.59 / 42
p0 1891 ± 2328
100
80
60
40
20
0
−20
−40
−60
−80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 282.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.004729
Std Dev 1.147
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

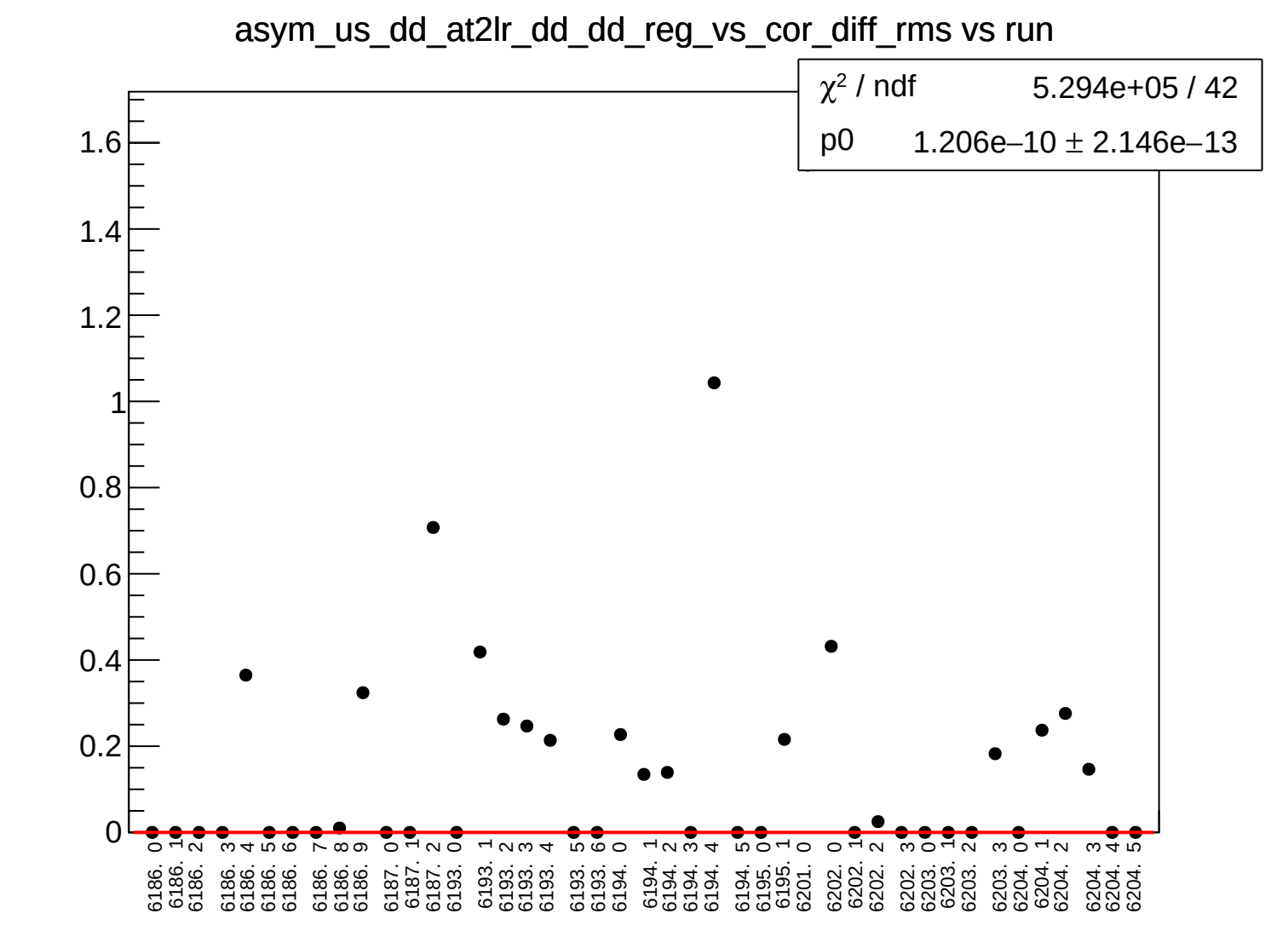

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4429 / 42
p0 1509 ± 1.646
1750
1700
1650
1600
1550
1500
1450
1400
1350
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

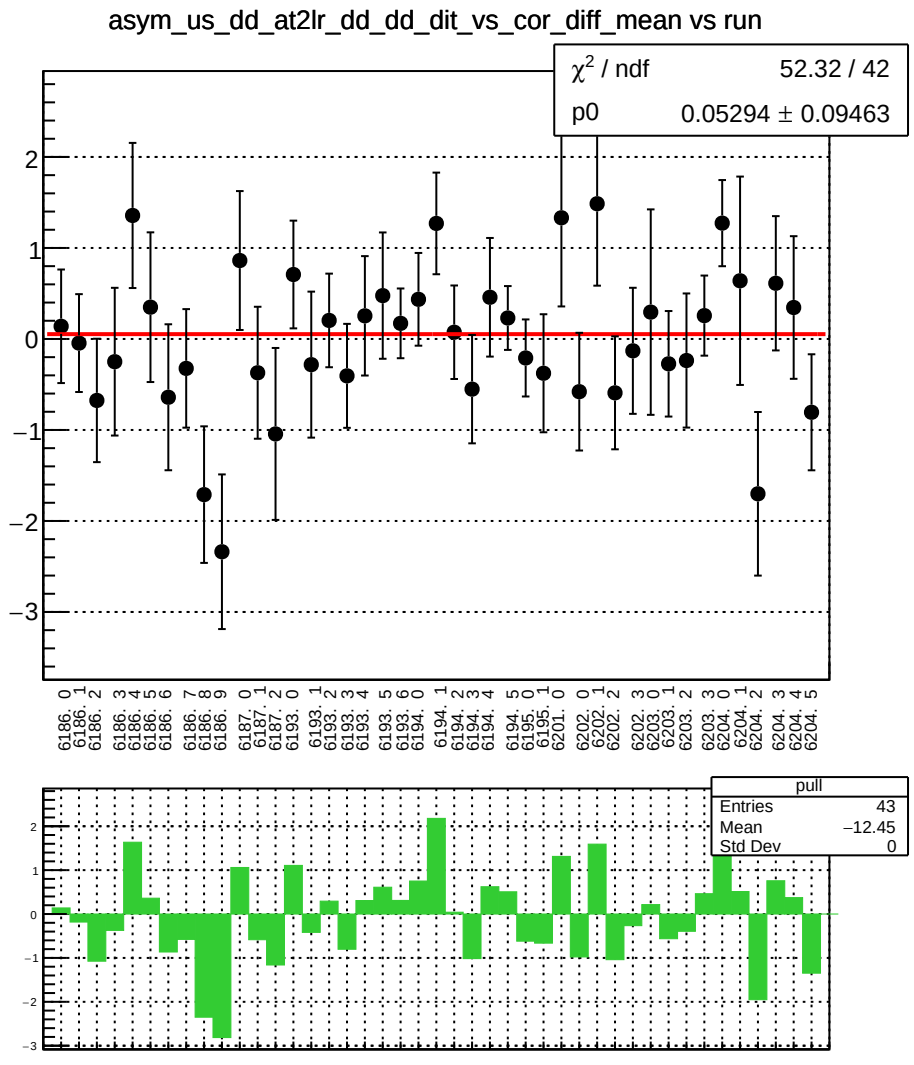

asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 50.99 / 42
p0 −1733 ± 3120
pull
Entries 43
Mean 2.814
Std Dev 2.439

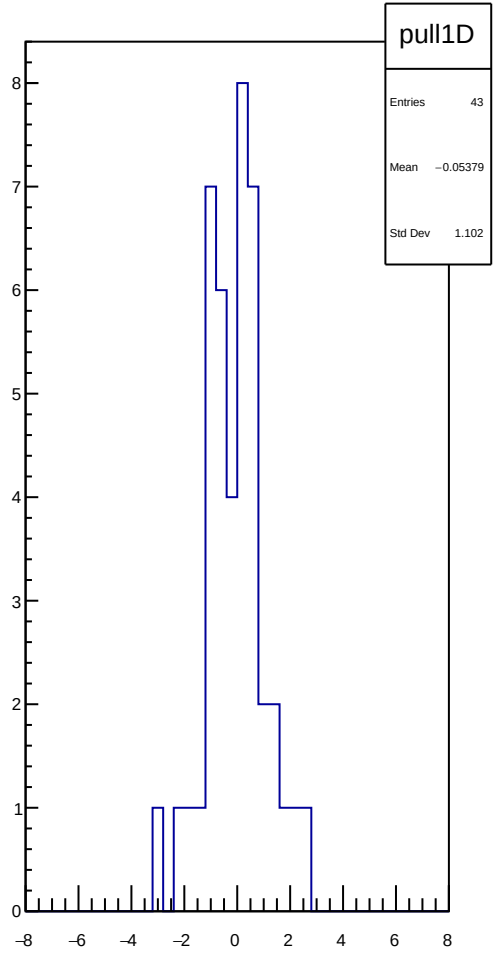

pull1D
Entries 43
Mean −0.02876
Std Dev 1.089

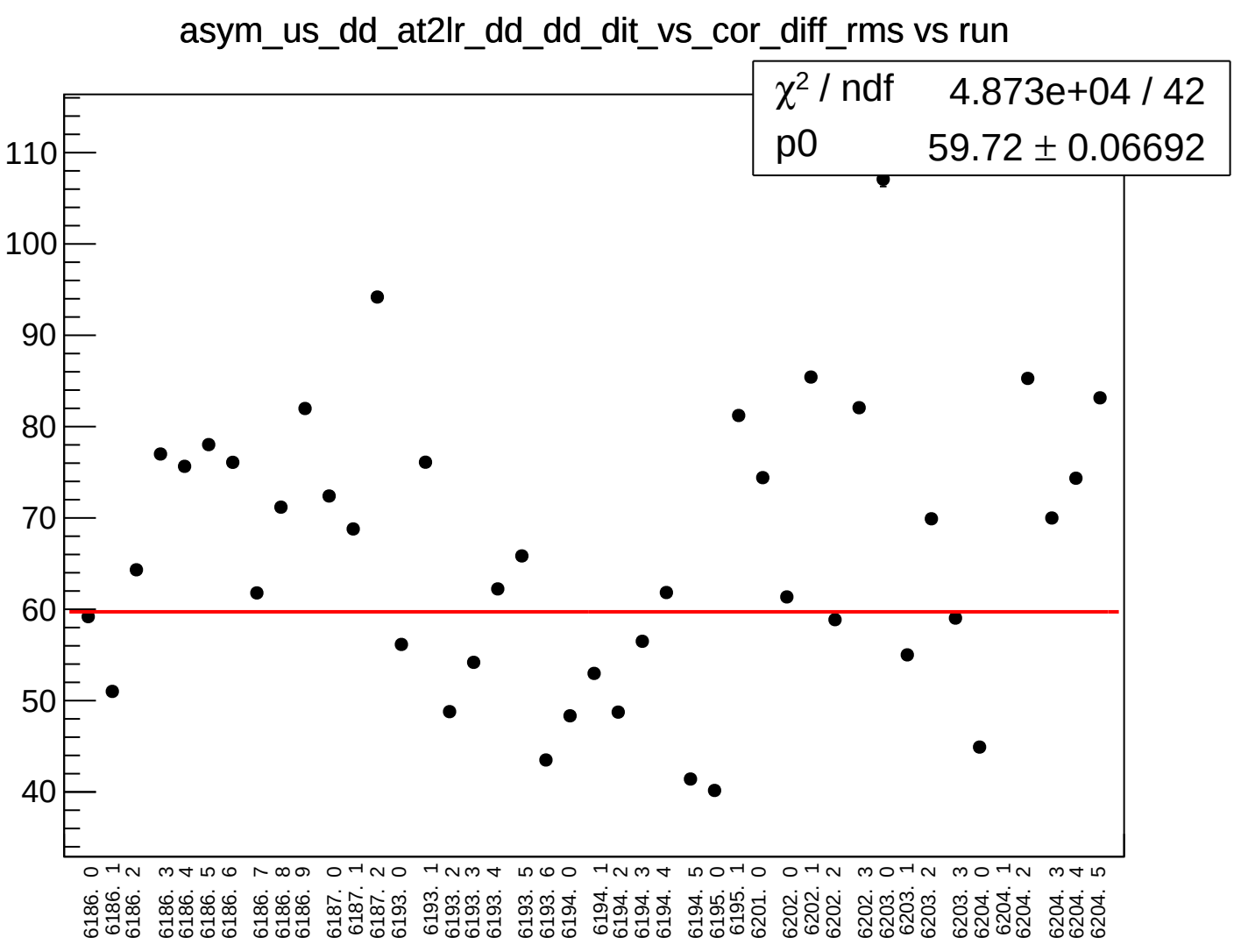

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1515 / 42
p0 2027 ± 2.206
2200
2150
2100
2050
2000
1950
1900
1850
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

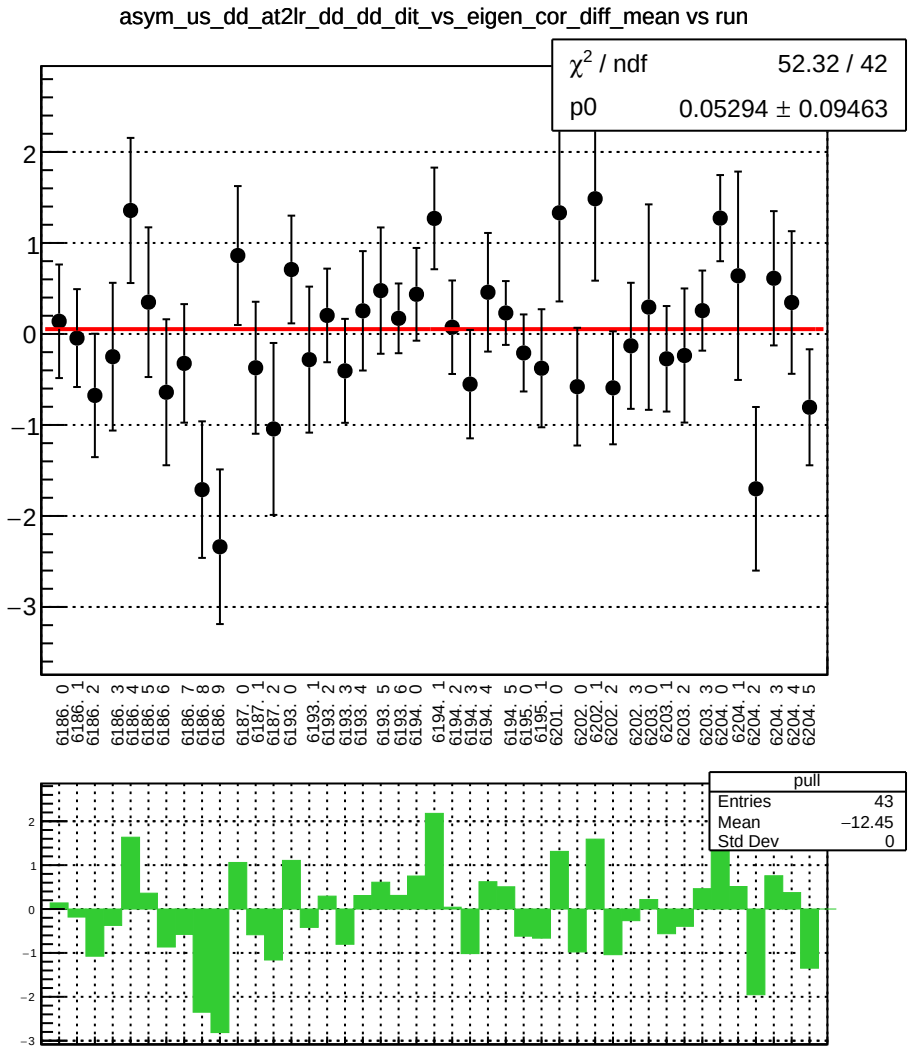

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 40.98 / 42
p0 −5.492e−14 ± 3.034e−13
0.06
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.331
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.03145
Std Dev 0.9757
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

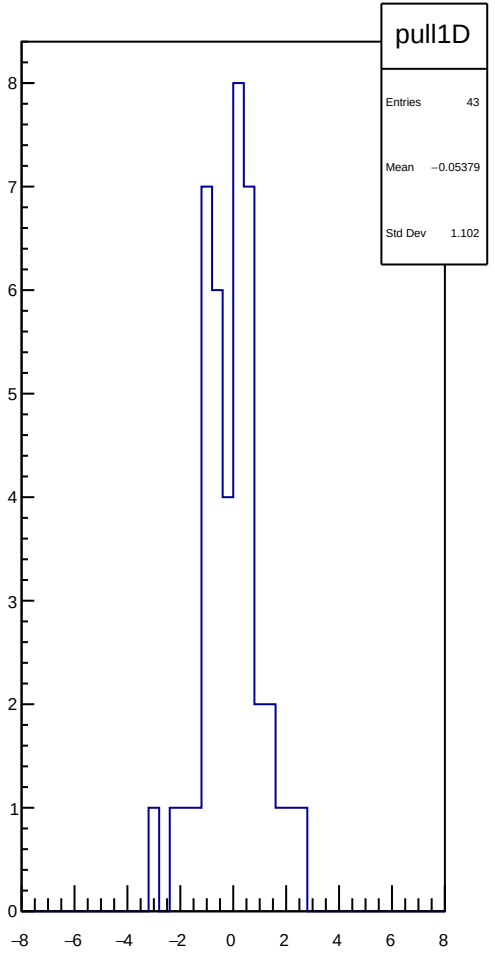

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.294e+05 / 42
p0 1.206e−10 ± 2.146e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

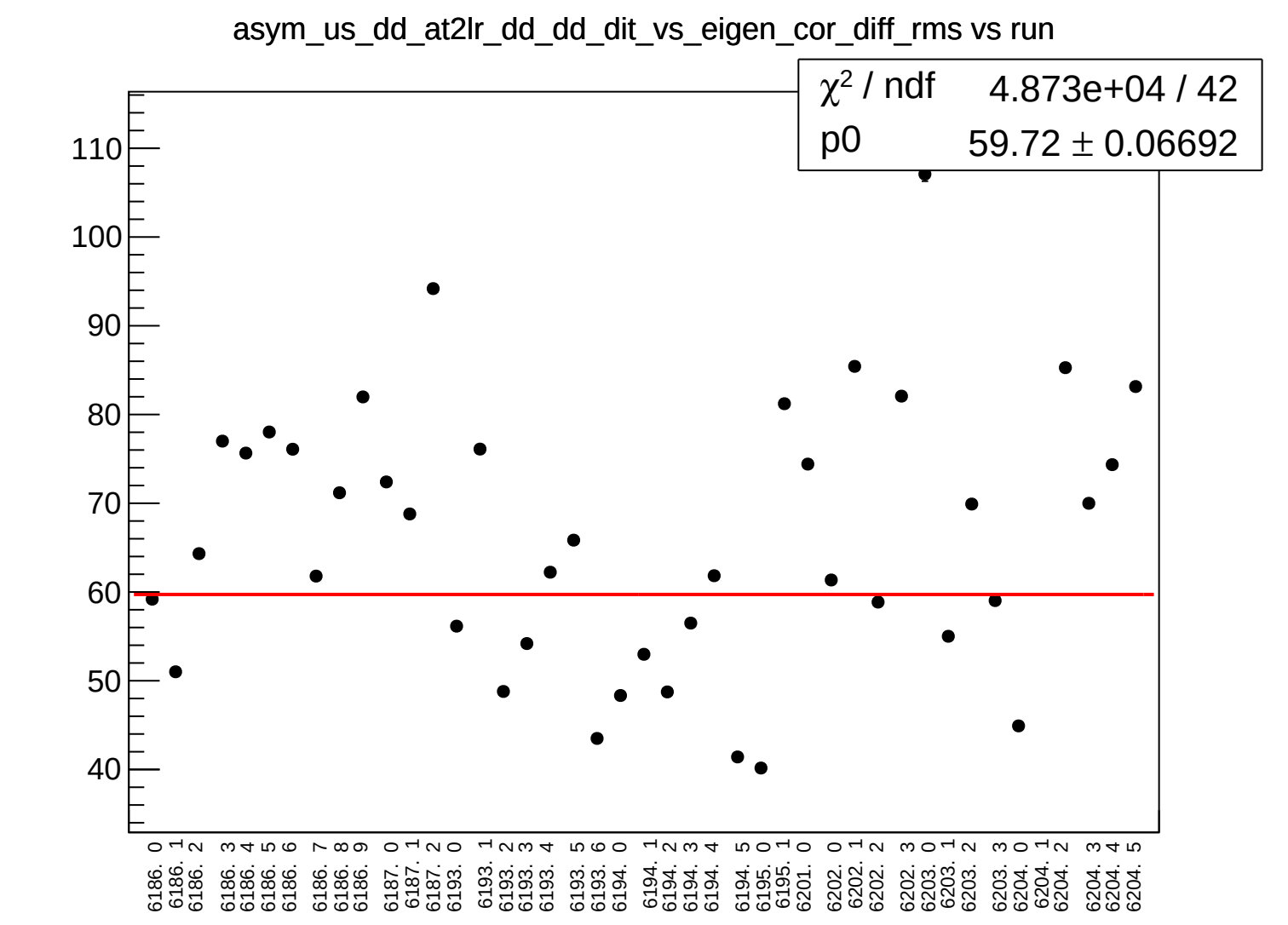

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 52.32 / 42
p0 0.05294 ± 0.09463
pull
Entries 43
Mean −12.45
Std Dev 0

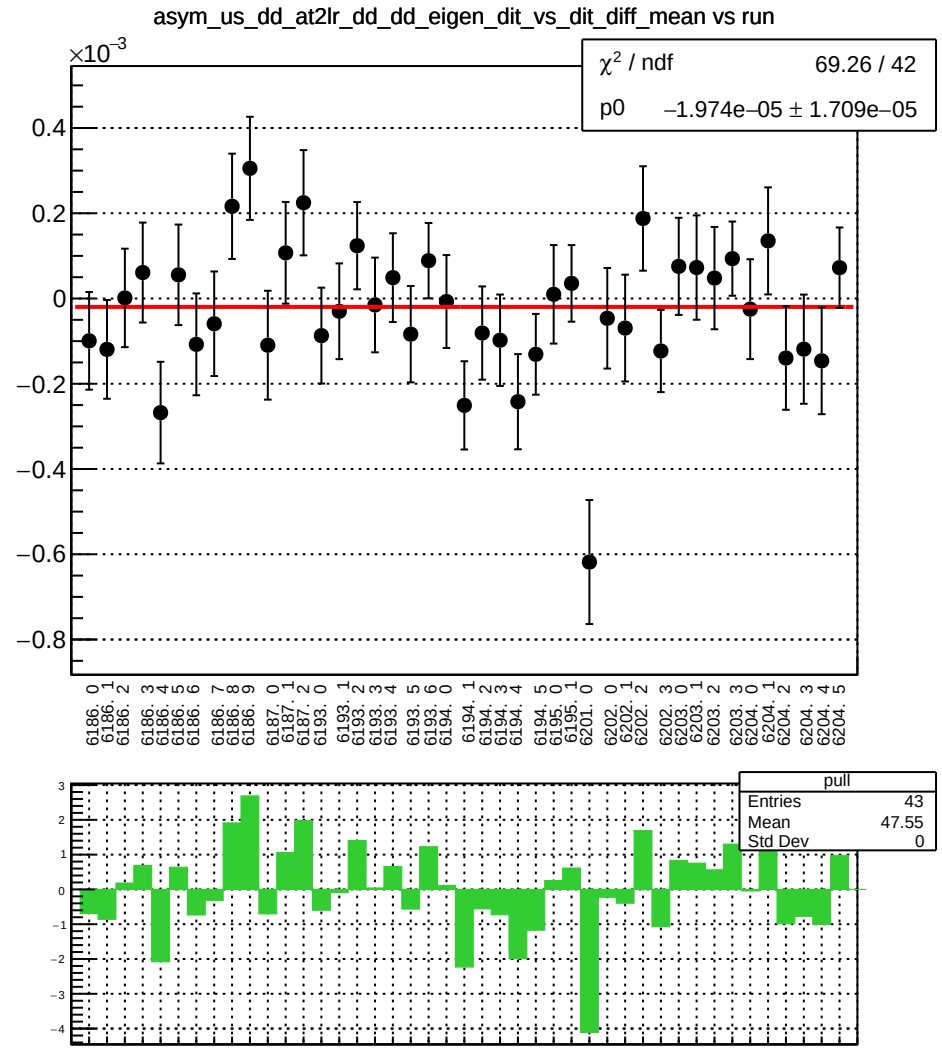

pull1D
Entries 43
Mean −0.05379
Std Dev 1.102

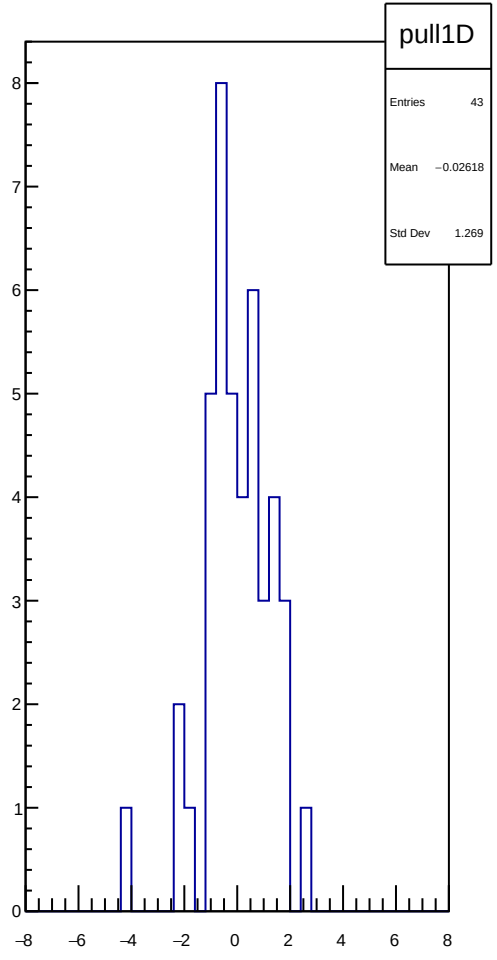

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.873e+04 / 42
p0 59.72 ± 0.06692
110
100
90
80
70
60
50
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

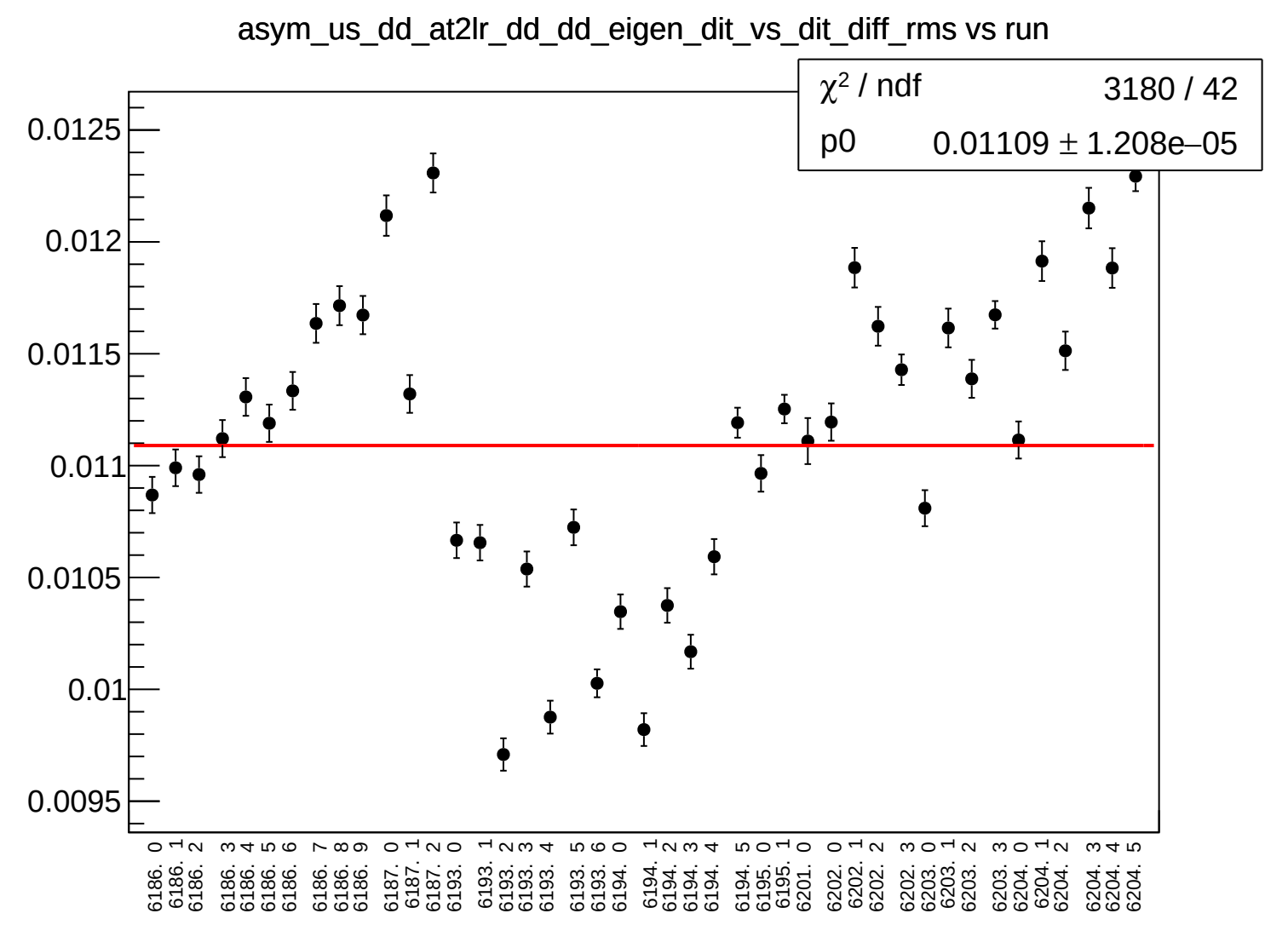

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.32 / 42
p0 0.05294 ± 0.09463
pull
Entries 43
Mean −12.45
Std Dev 0

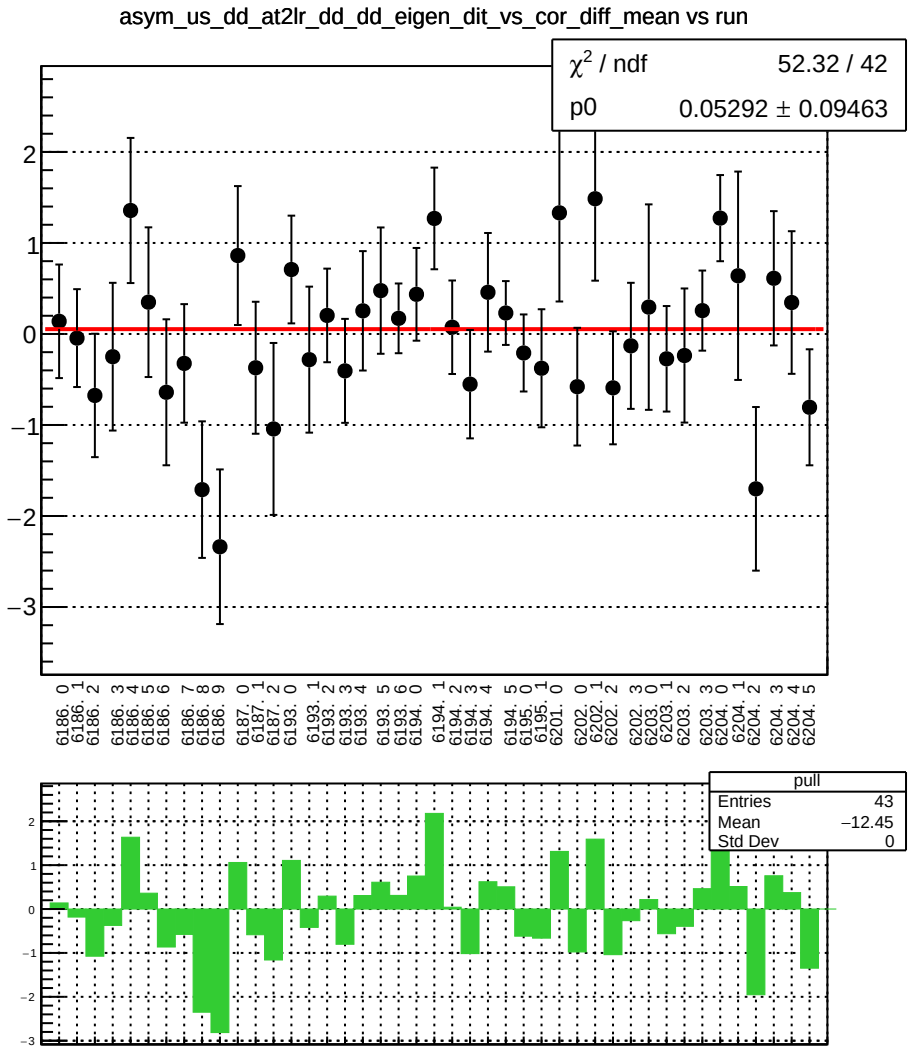

pull1D
Entries 43
Mean −0.05379
Std Dev 1.102

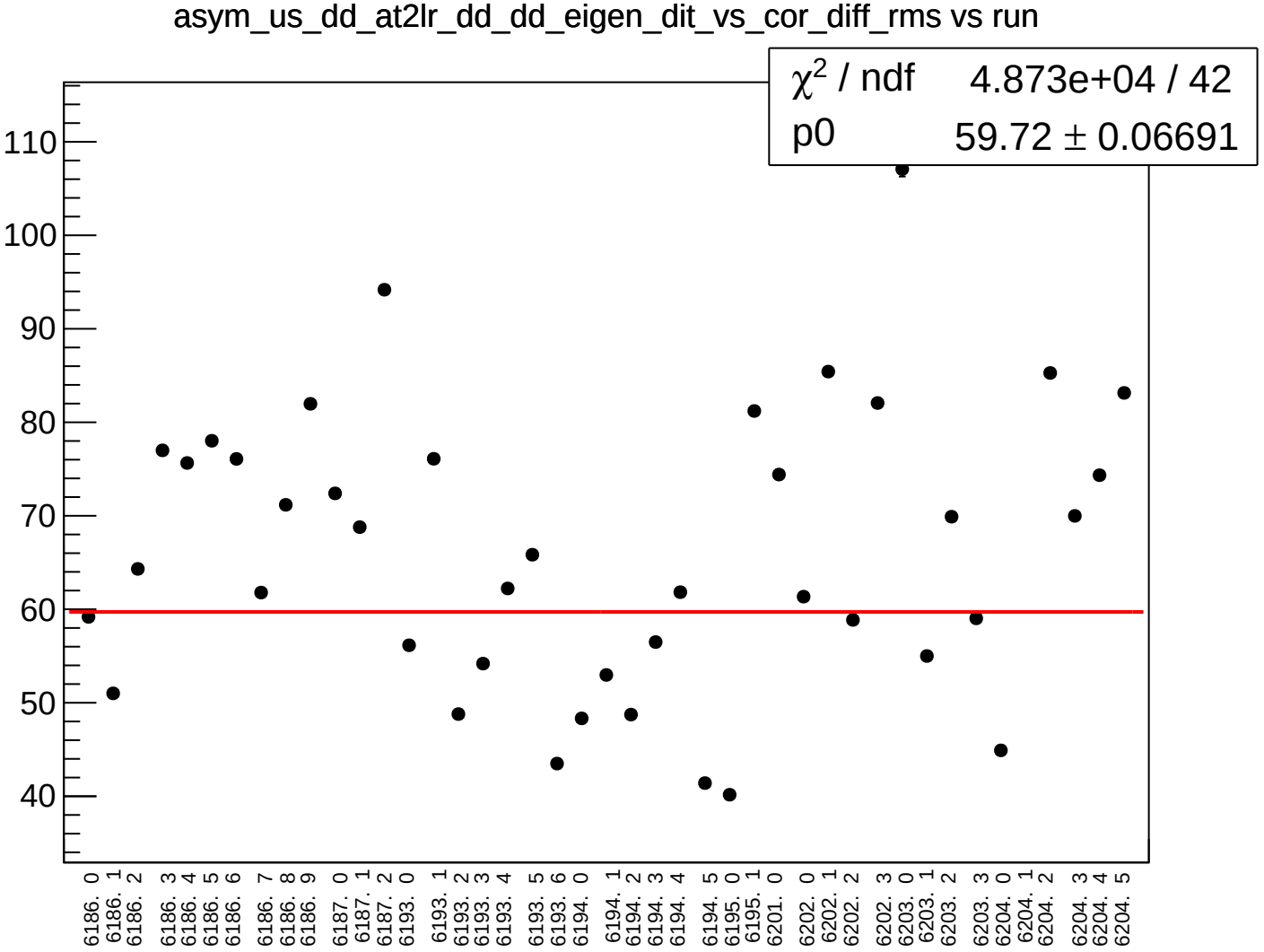

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.873e+04 / 42
p0 59.72 ± 0.06692
110
100
90
80
70
60
50
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

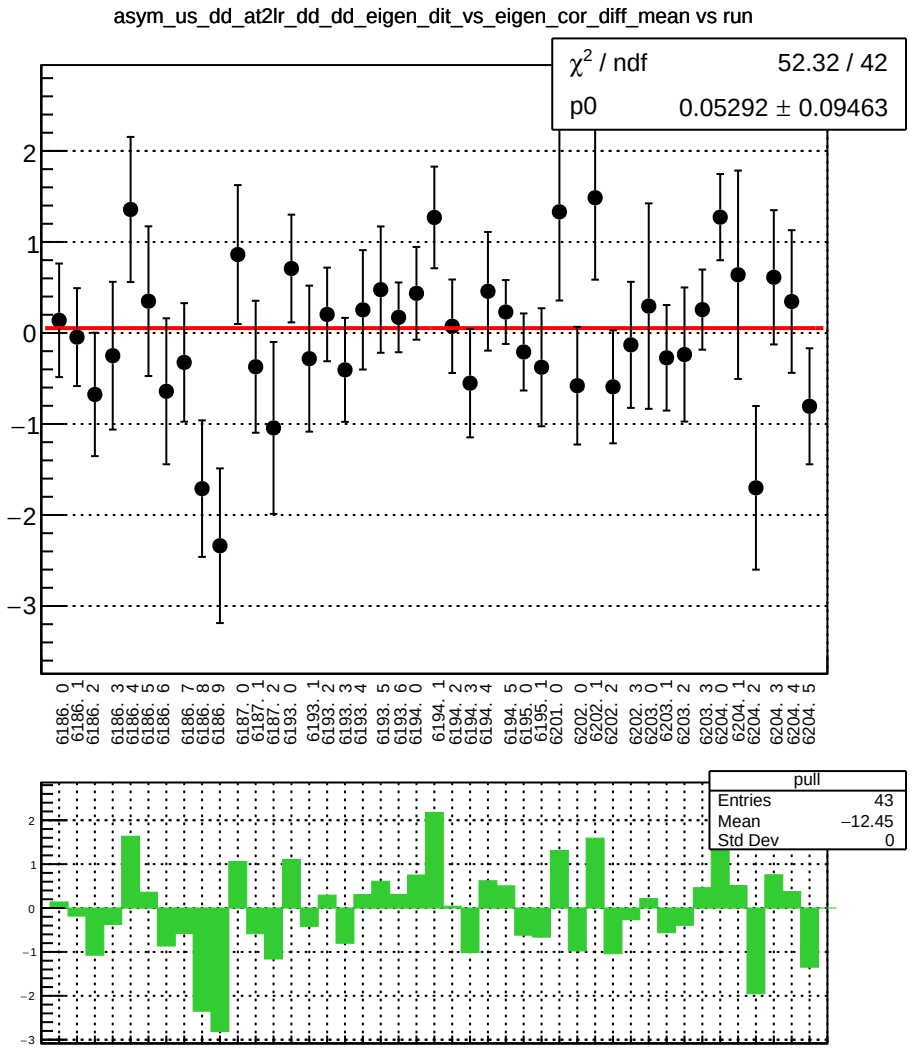

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 69.26 / 42
p0 −1.974e−05 ± 1.709e−05
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 47.55
Std Dev 0
3
2
1
0
−1
−2
−3
−4

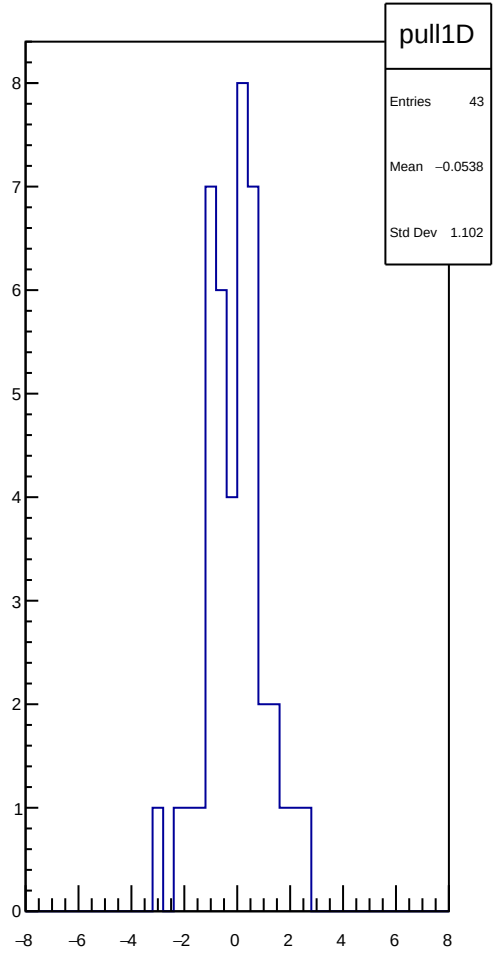

pull1D
Entries 43
Mean −0.02618
Std Dev 1.269
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

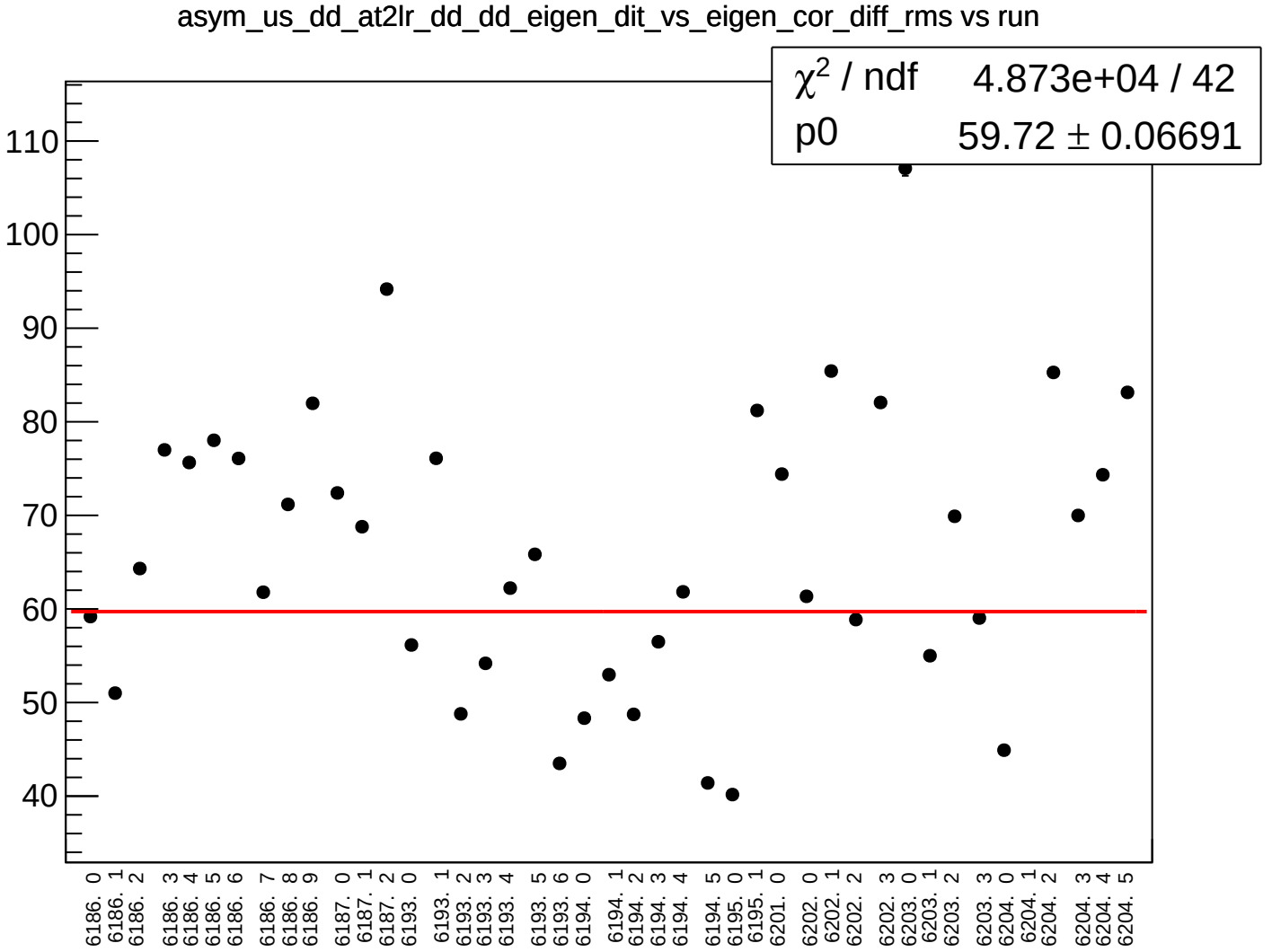

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3180 / 42
p0 0.01109 ± 1.208e−05
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

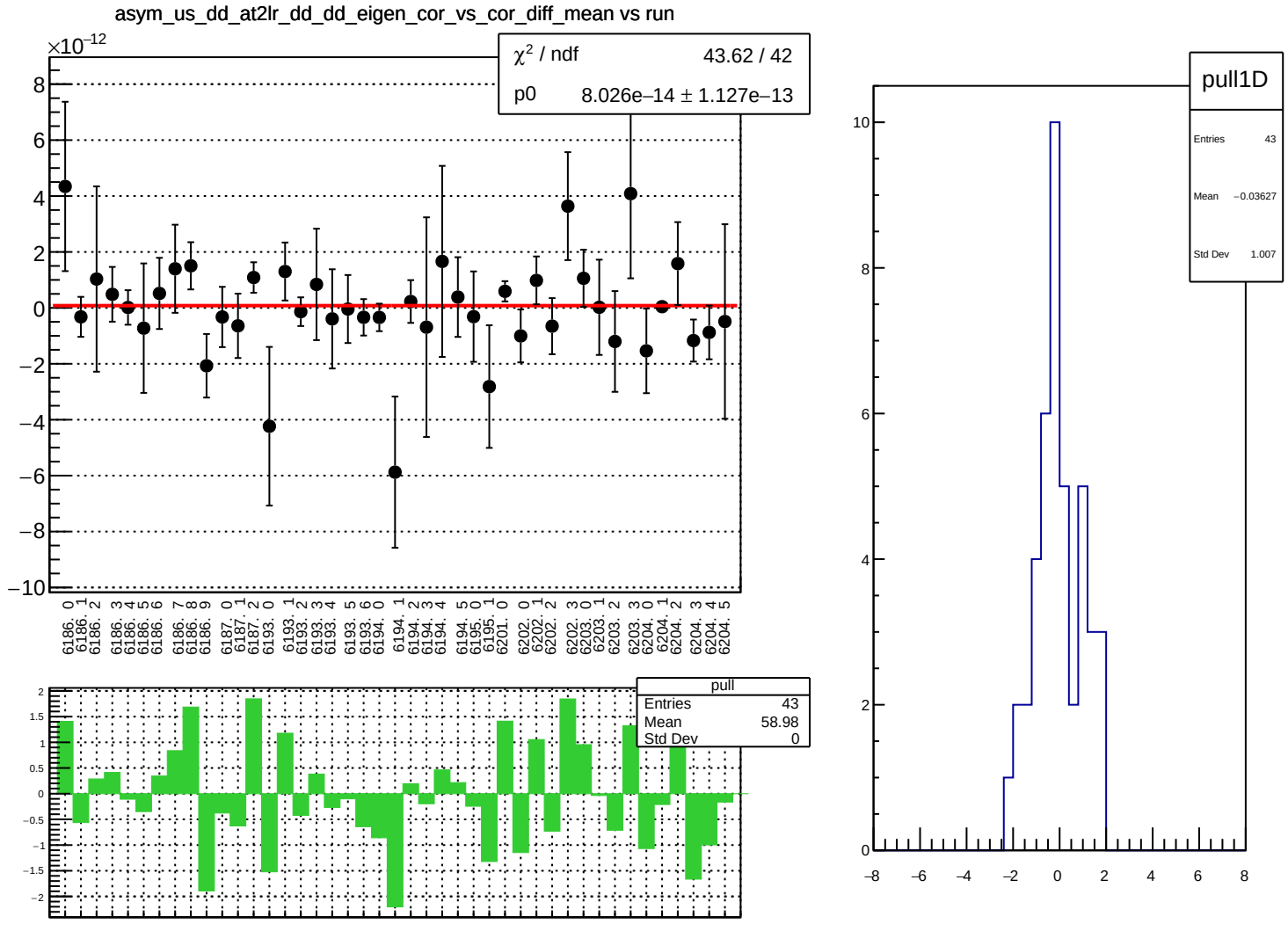

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.32 / 42
p0 0.05292 ± 0.09463
pull
Entries 43
Mean −12.45
Std Dev 0
pull1D
Entries 43
Mean −0.0538
Std Dev 1.102

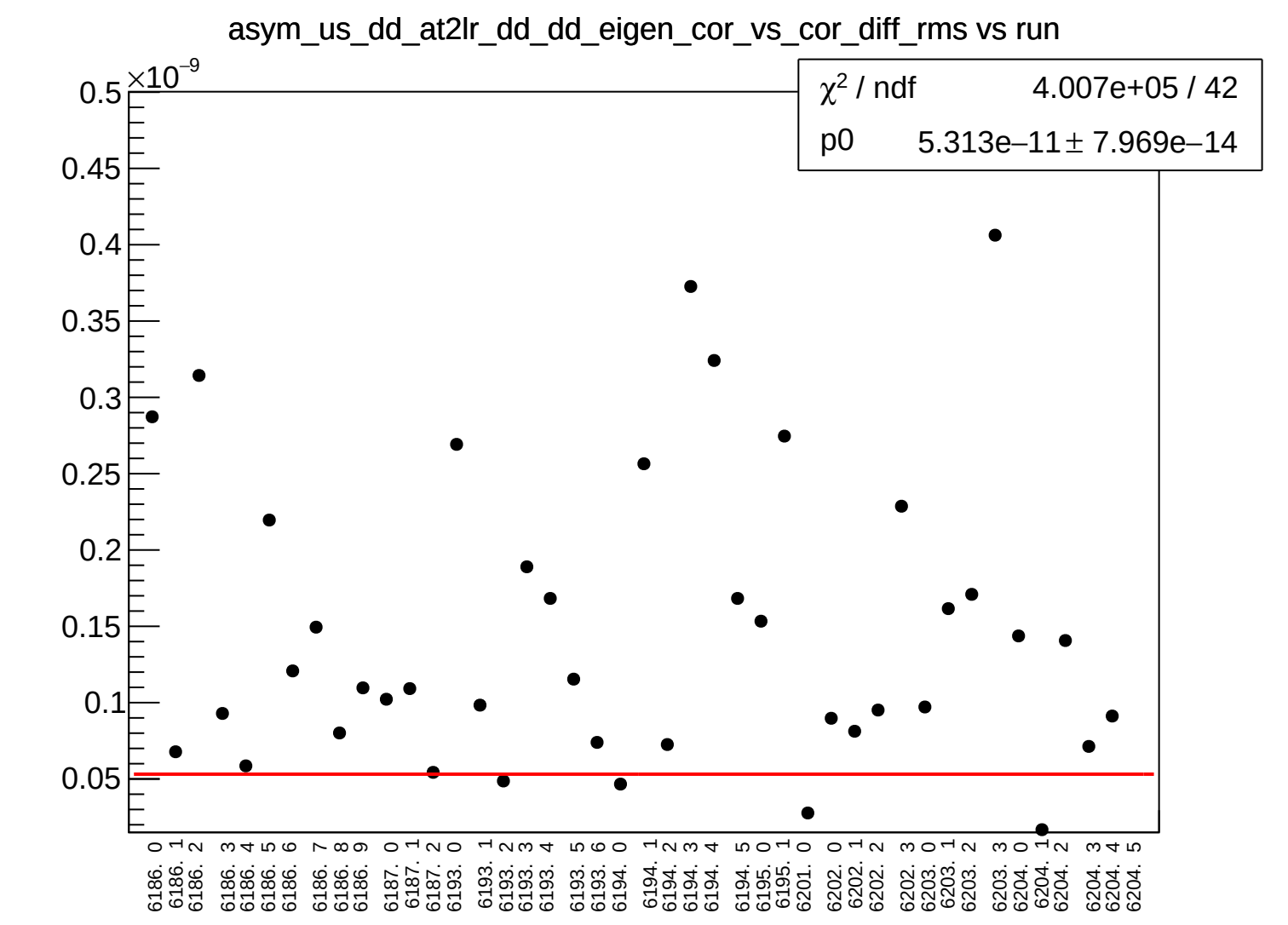

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.873e+04 / 42
p0 59.72 ± 0.06691
110
100
90
80
70
60
50
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

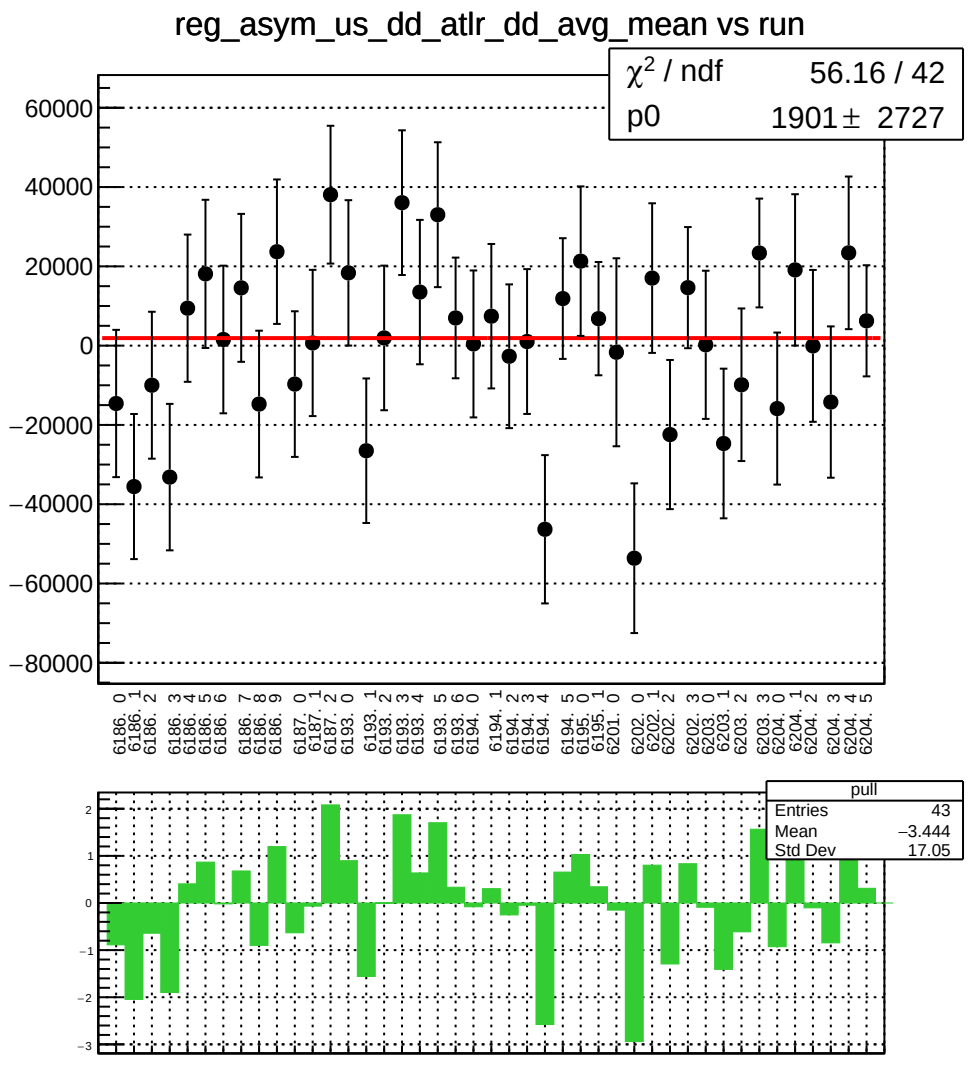

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.32 / 42
p0 0.05292 ± 0.09463
pull
Entries 43
Mean −12.45
Std Dev 0

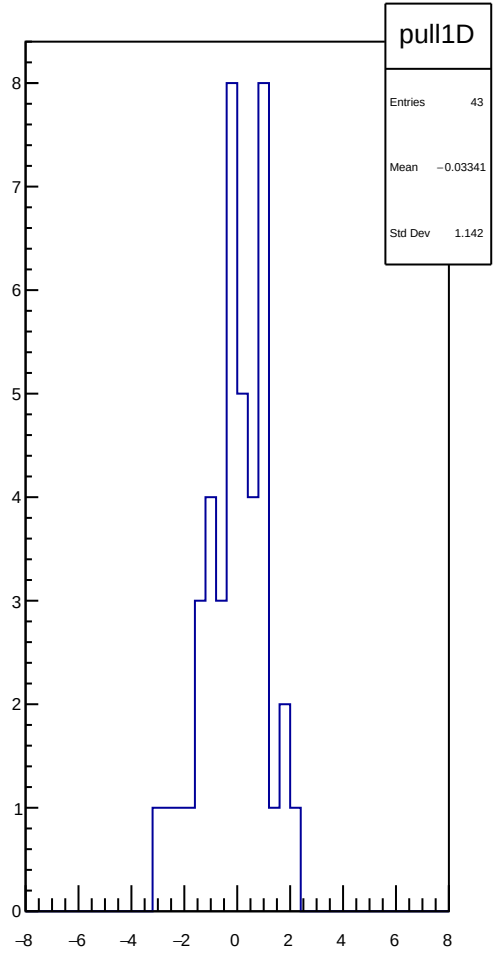

pull1D
Entries 43
Mean −0.0538
Std Dev 1.102

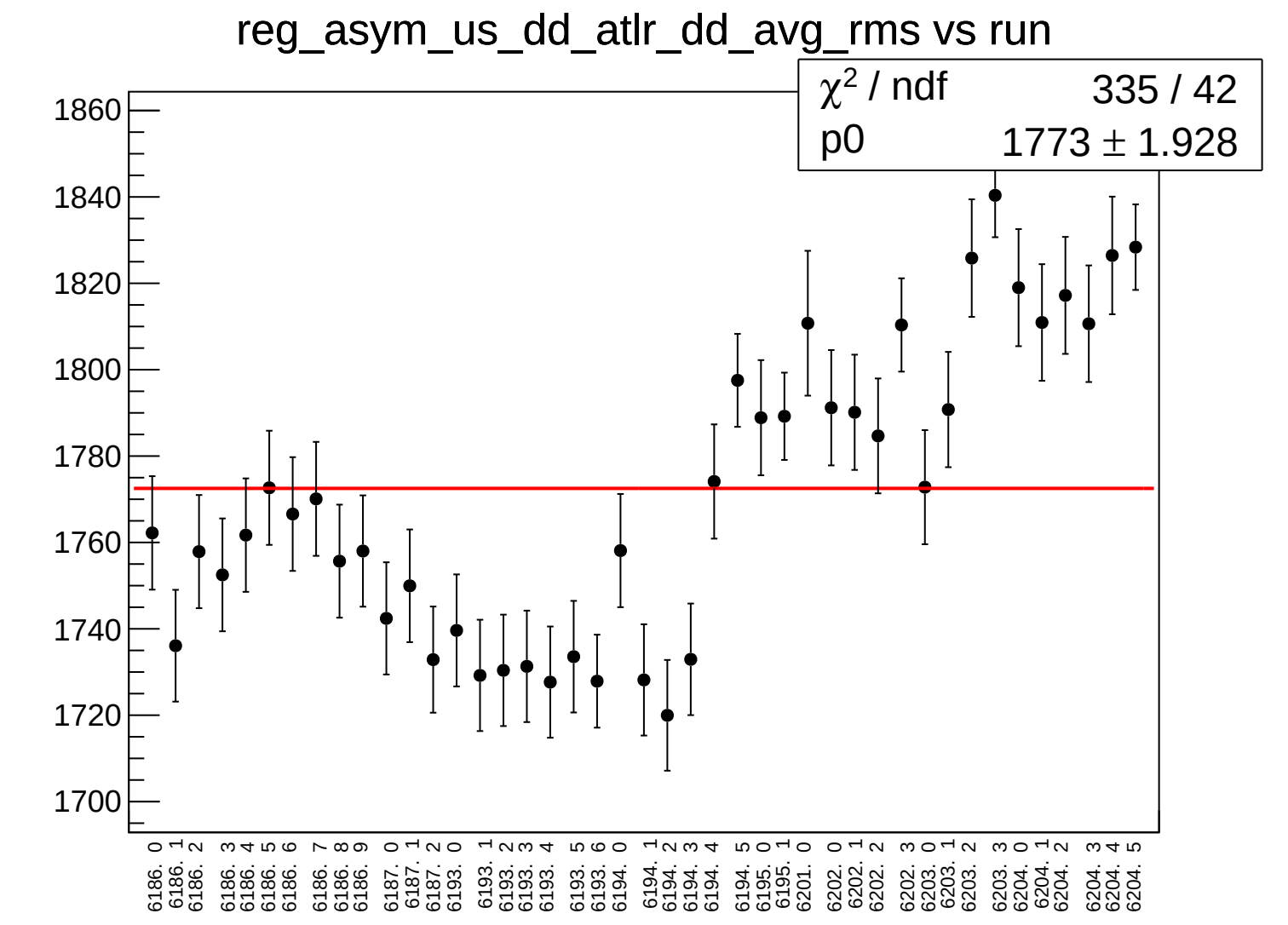

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.873e+04 / 42
p0 59.72 ± 0.06691
110
100
90
80
70
60
50
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

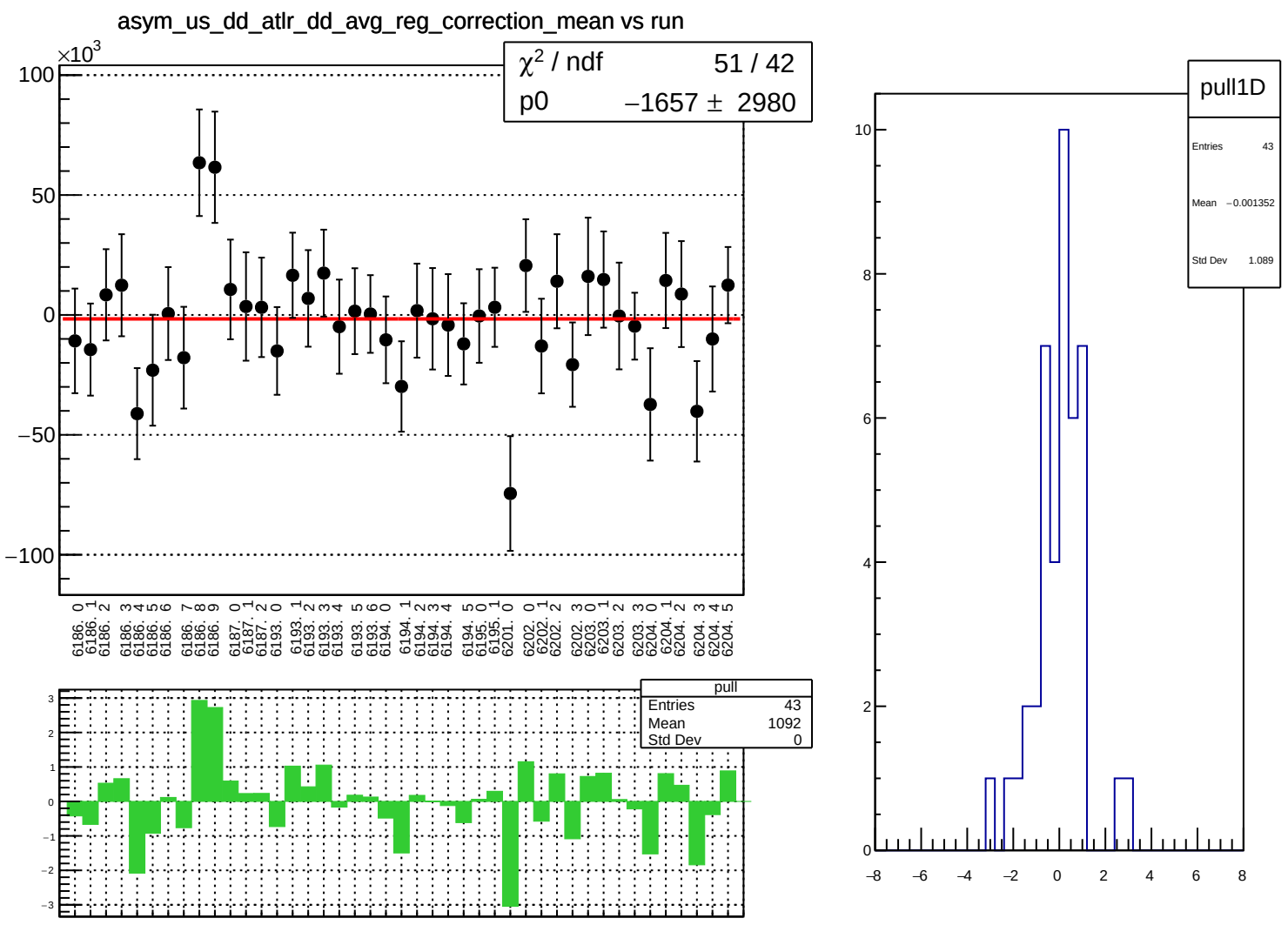

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.62 / 42
p0 8.026e−14 ± 1.127e−13
pull
Entries 43
Mean 58.98
Std Dev 0
pull1D
Entries 43
Mean −0.03627
Std Dev 1.007

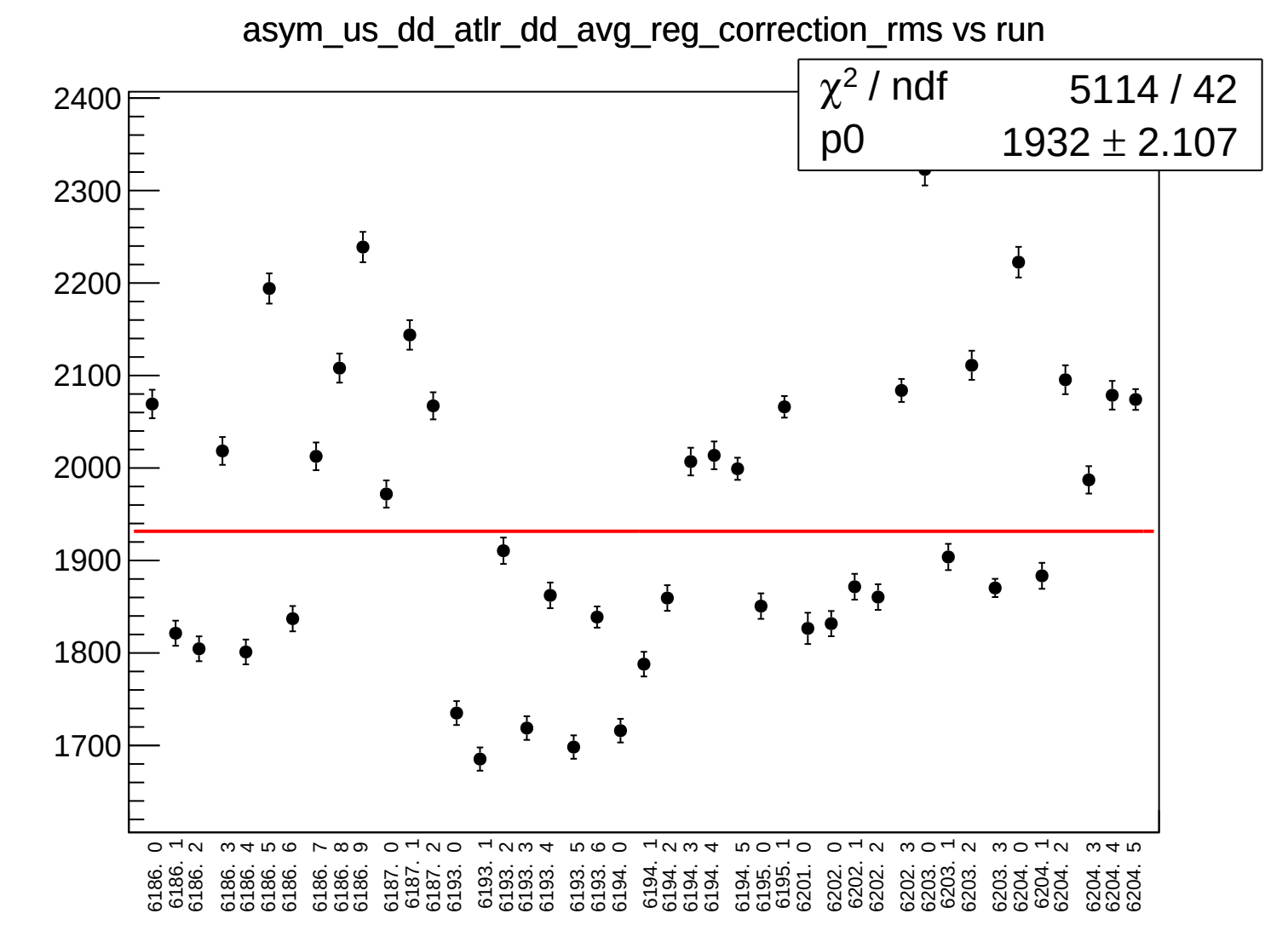

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.007e+05 / 42
p0 5.313e−11 ± 7.969e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

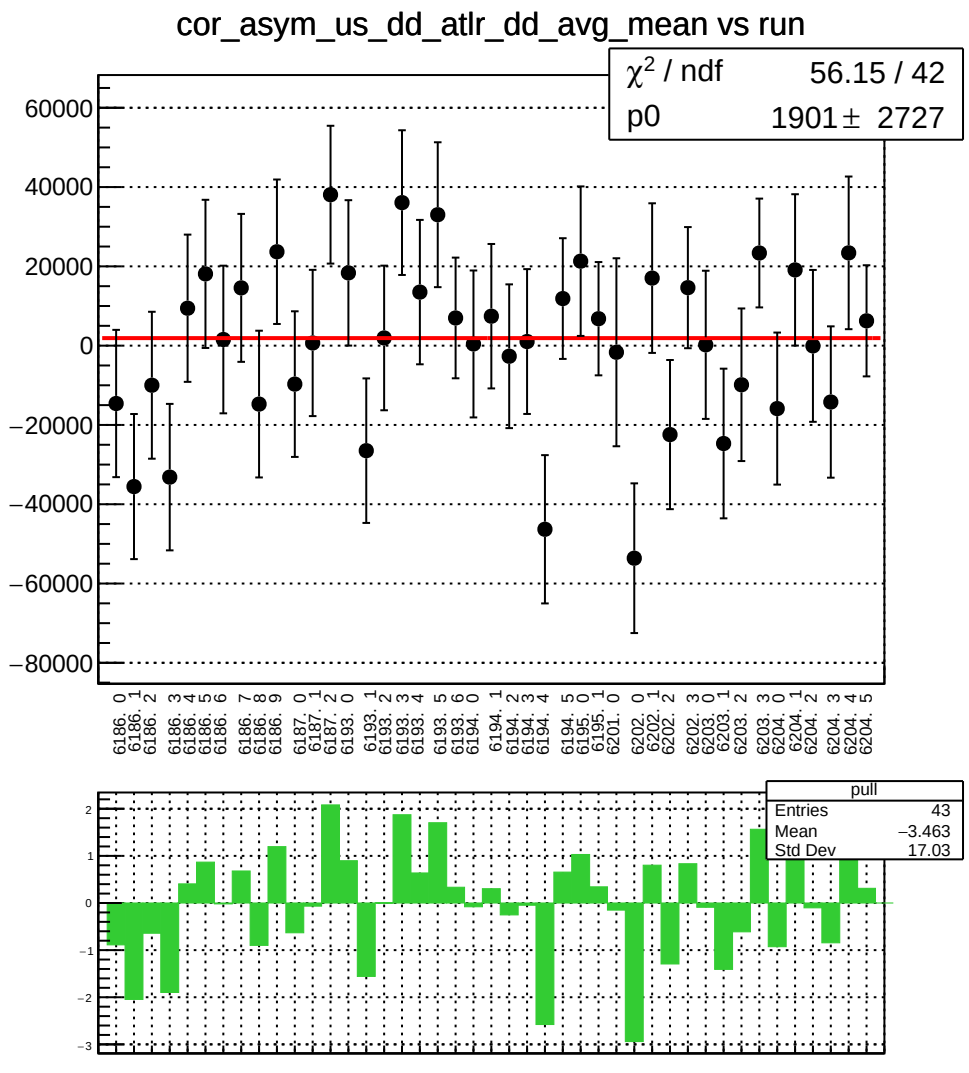

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 56.16 / 42
p0 1901 ± 2727
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3.444
Std Dev 17.05
2
1
0
−1
−2
−3

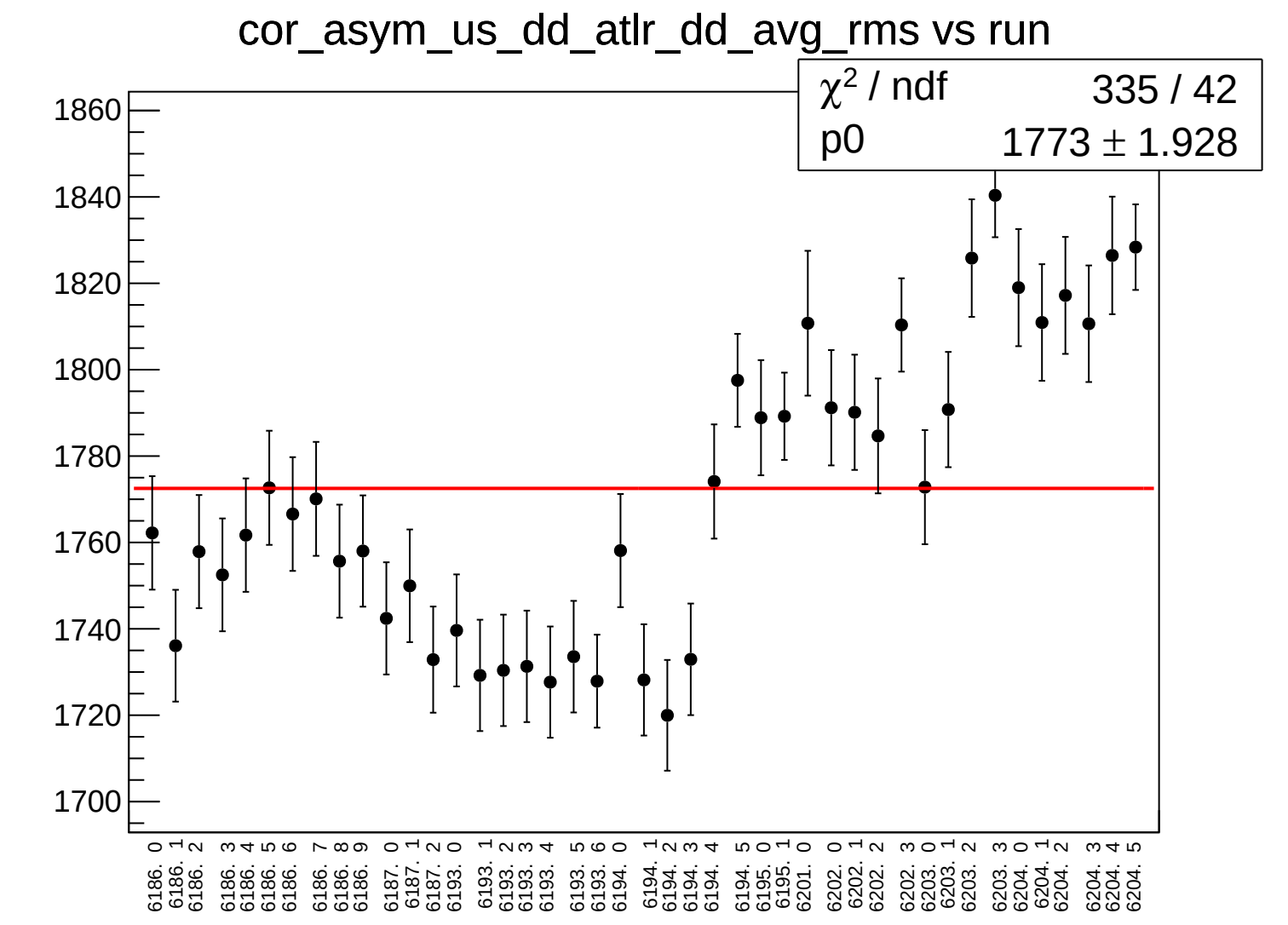

pull1D
Entries 43
Mean −0.03341
Std Dev 1.142
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

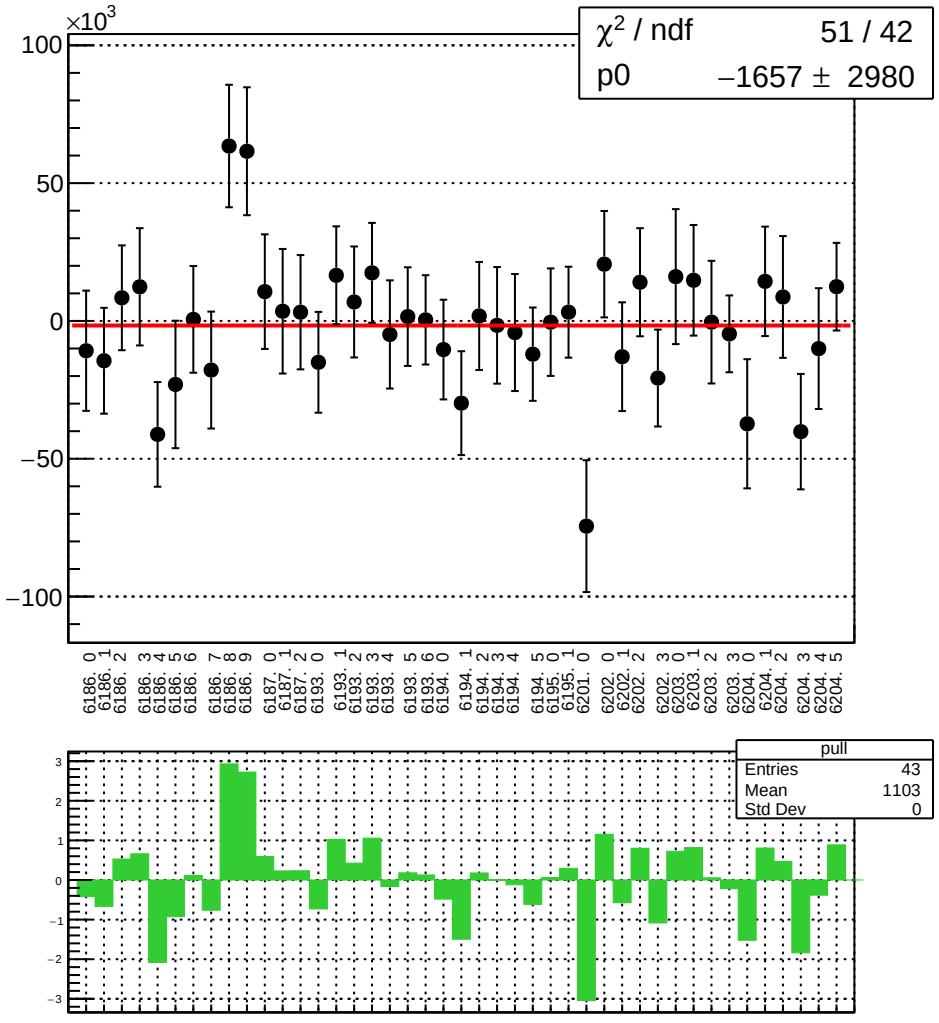

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 335 / 42
p0 1773 ± 1.928
1860
1840
1820
1800
1780
1760
1740
1720
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

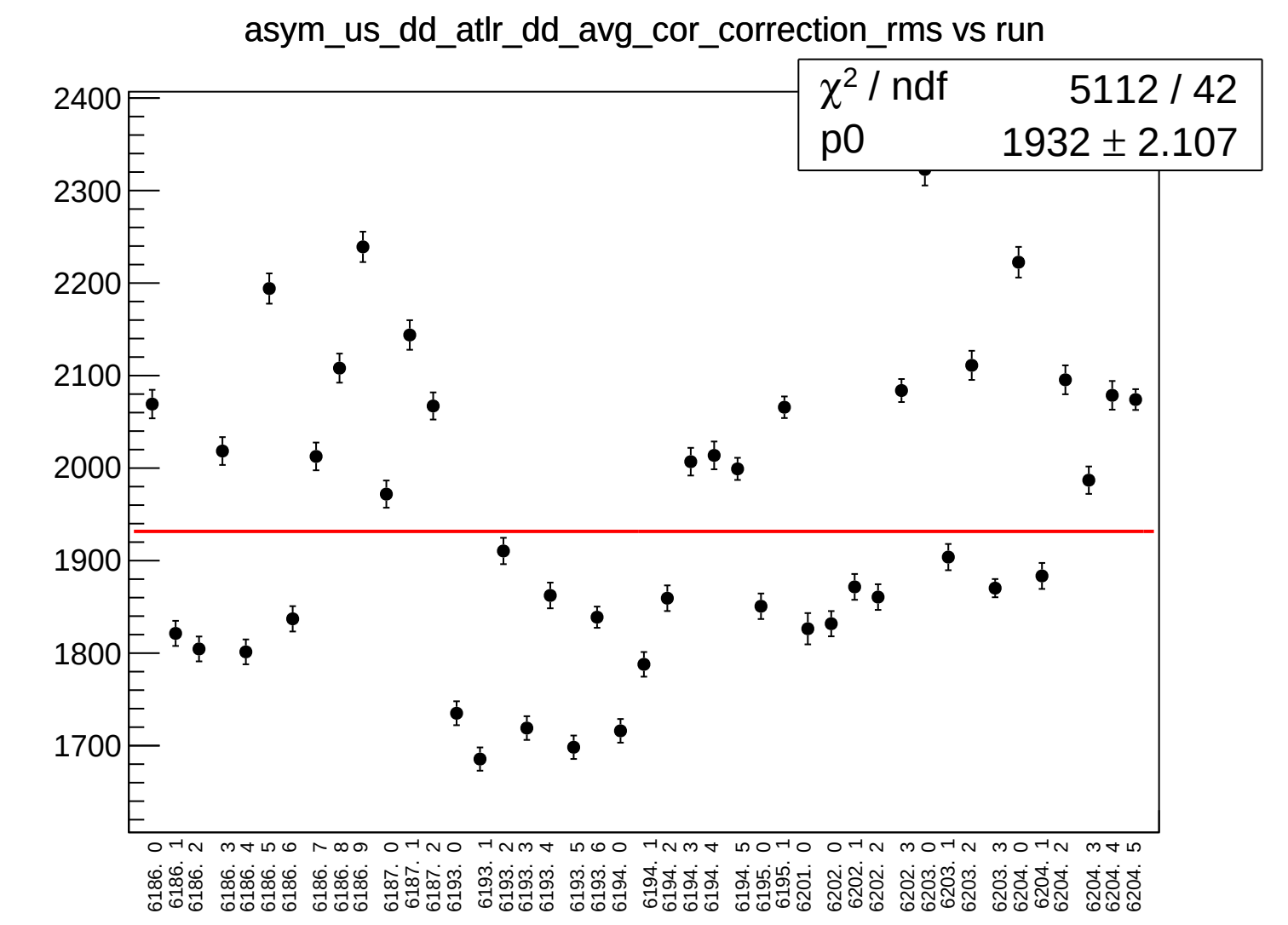

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 51 / 42
p0 −1657 ± 2980
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1092
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.001352
Std Dev 1.089
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

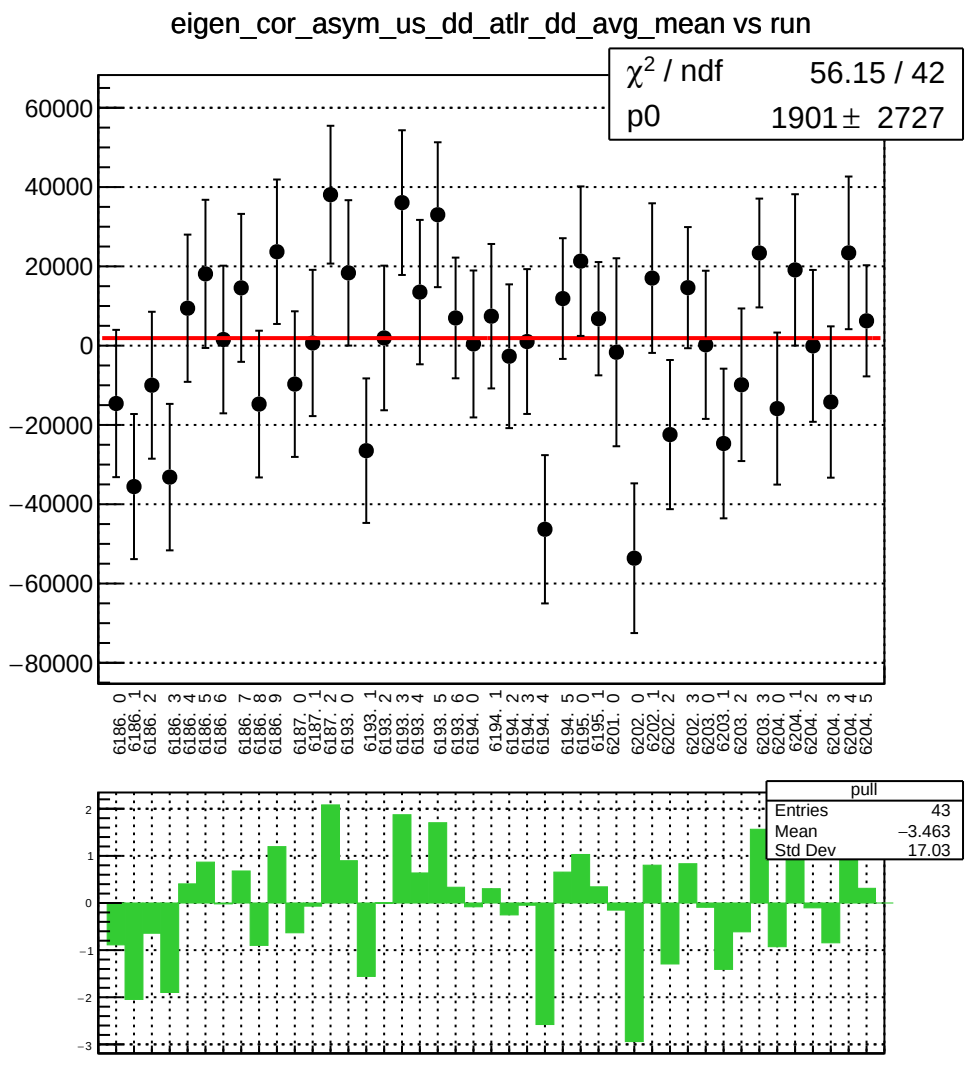

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 5114 / 42
p0 1932 ± 2.107
2400
2300
2200
2100
2000
1900
1800
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

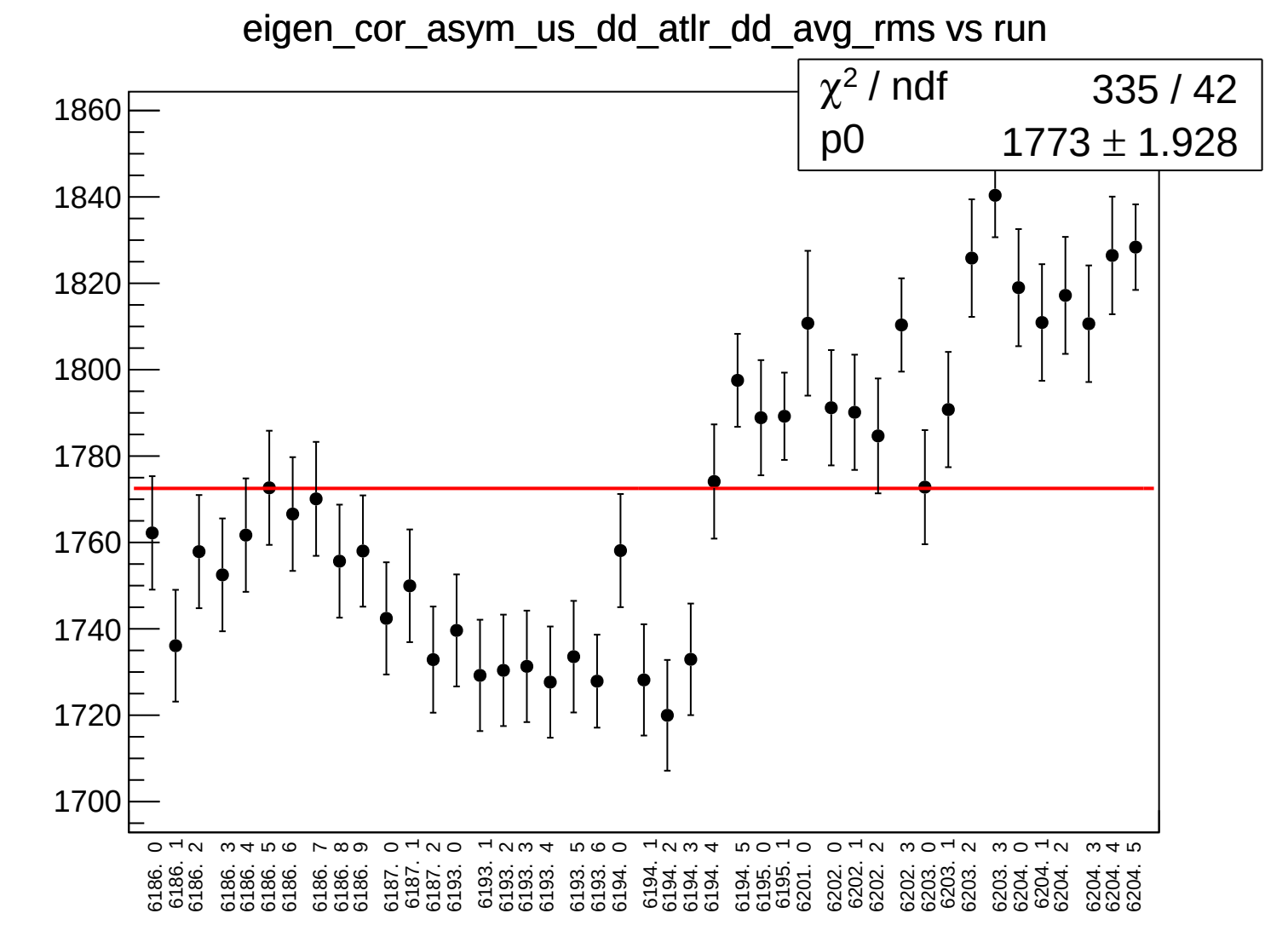

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 56.15 / 42
p0 1901 ± 2727
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3.463
Std Dev 17.03
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.0334
Std Dev 1.142
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

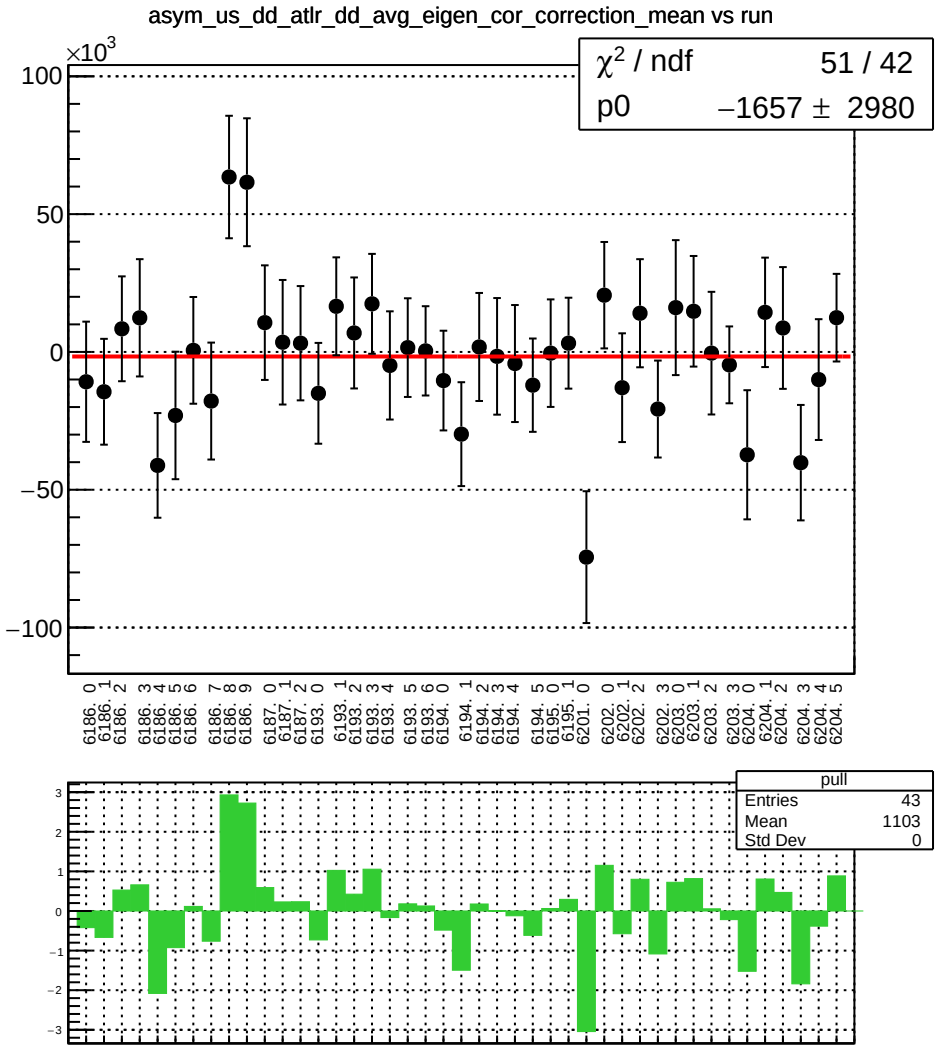

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 335 / 42
p0 1773 ± 1.928
1860
1840
1820
1800
1780
1760
1740
1720
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

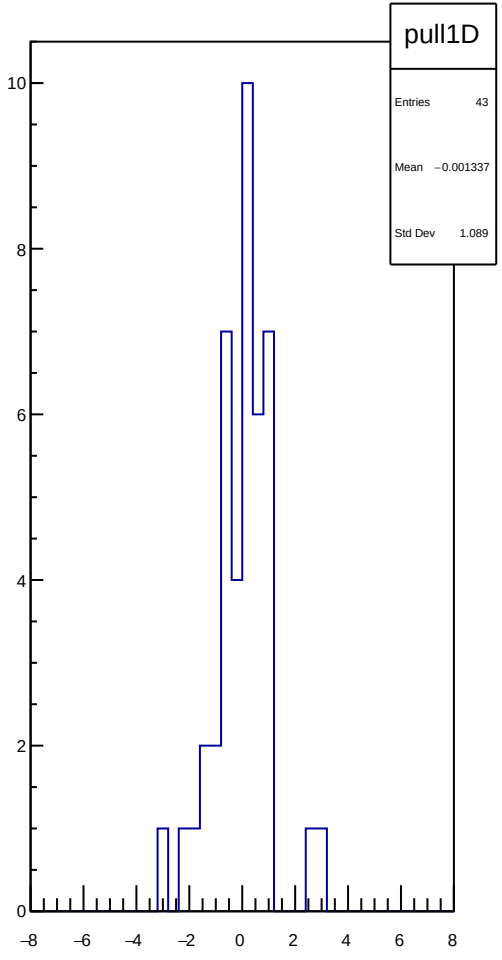

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 51 / 42
p0 −1657 ± 2980
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1103
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.001337
Std Dev 1.089
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

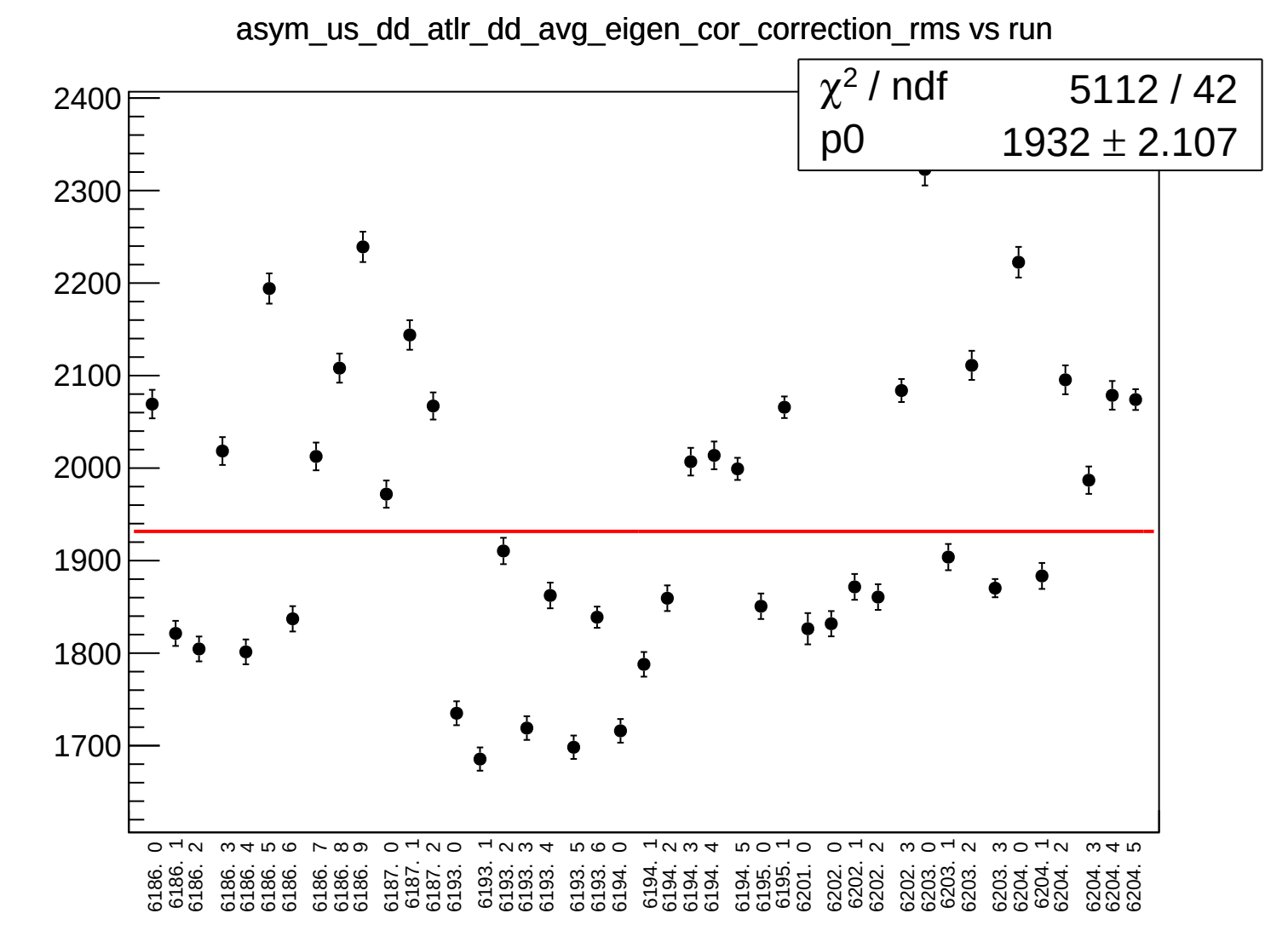

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 5112 / 42
p0 1932 ± 2.107
2400
2300
2200
2100
2000
1900
1800
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

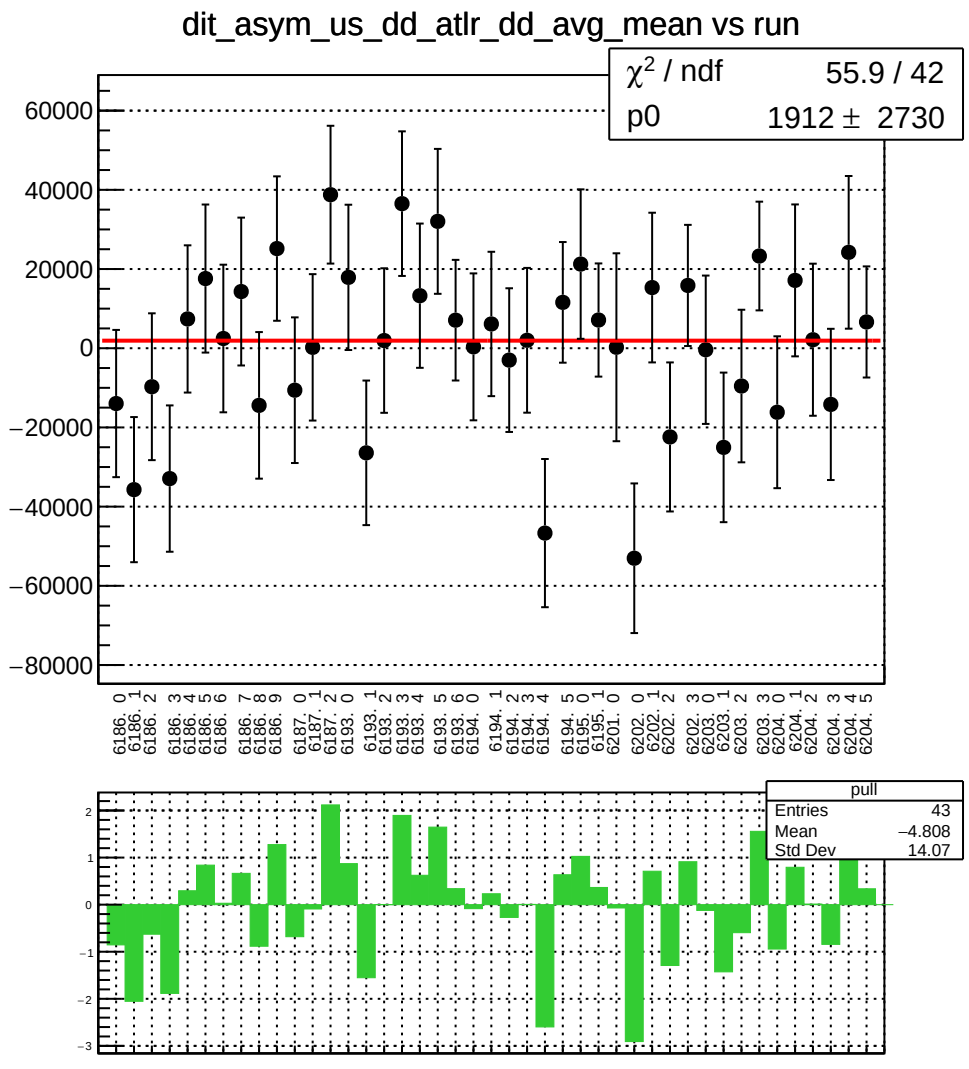

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 56.15 / 42
p0 1901 ± 2727
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3.463
Std Dev 17.03
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.0334
Std Dev 1.142
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

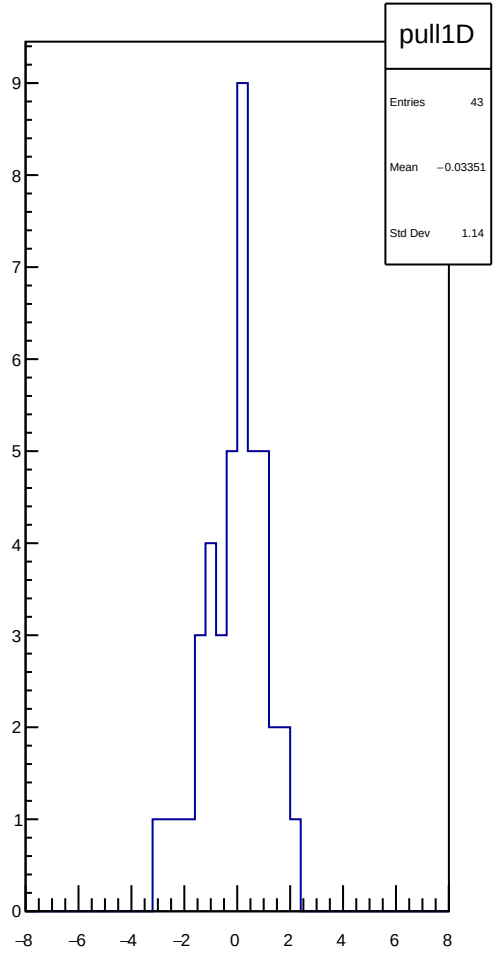

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 335 / 42
p0 1773 ± 1.928
1860
1840
1820
1800
1780
1760
1740
1720
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

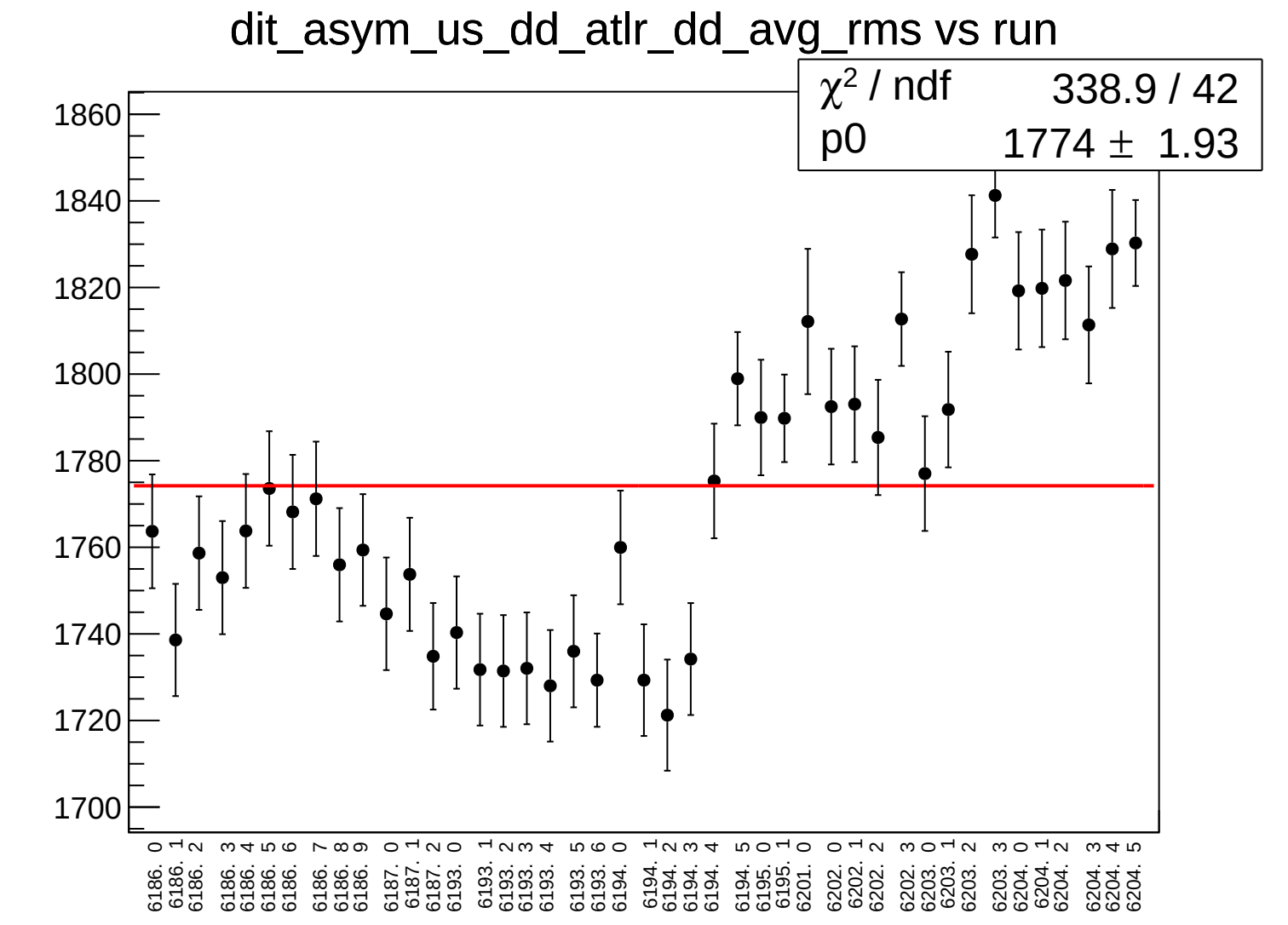

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 51 / 42
p0 −1657 ± 2980
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1103
Std Dev 0
3
2
1
0
−1
−2
−3

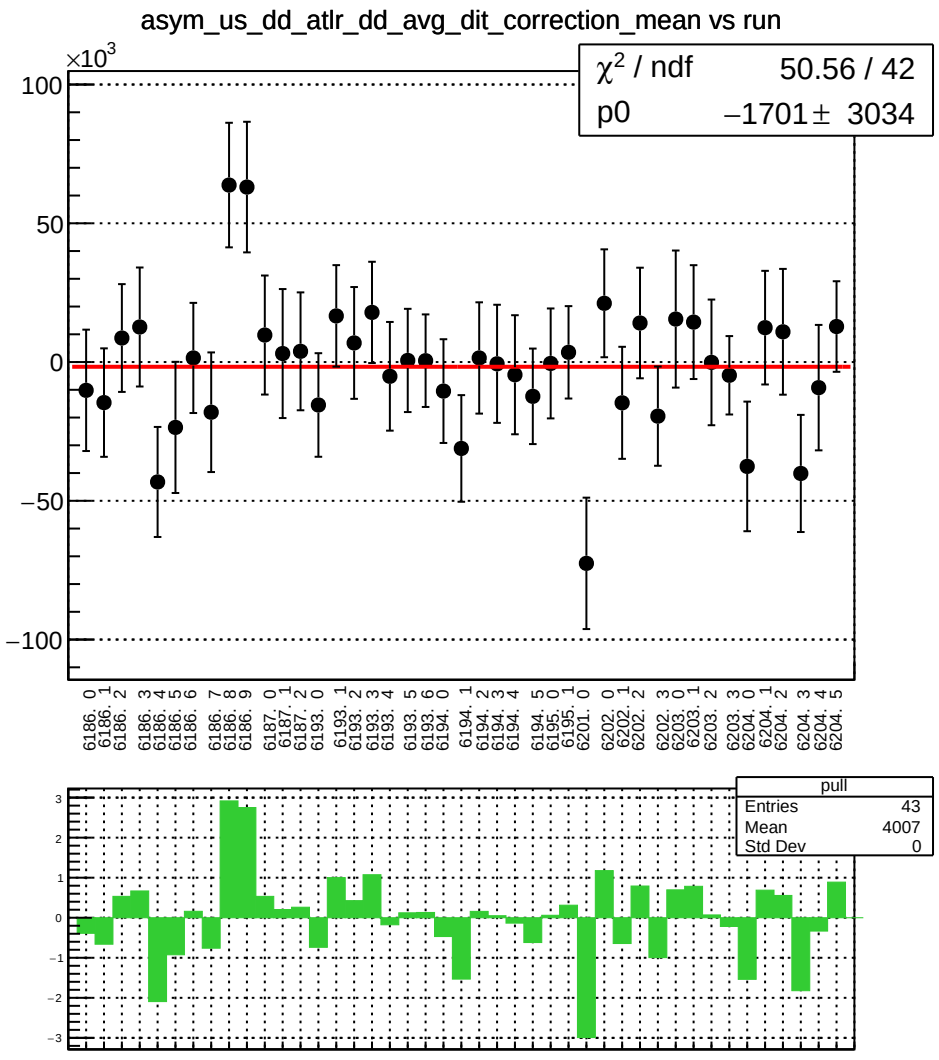

pull1D
Entries 43
Mean −0.001337
Std Dev 1.089
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

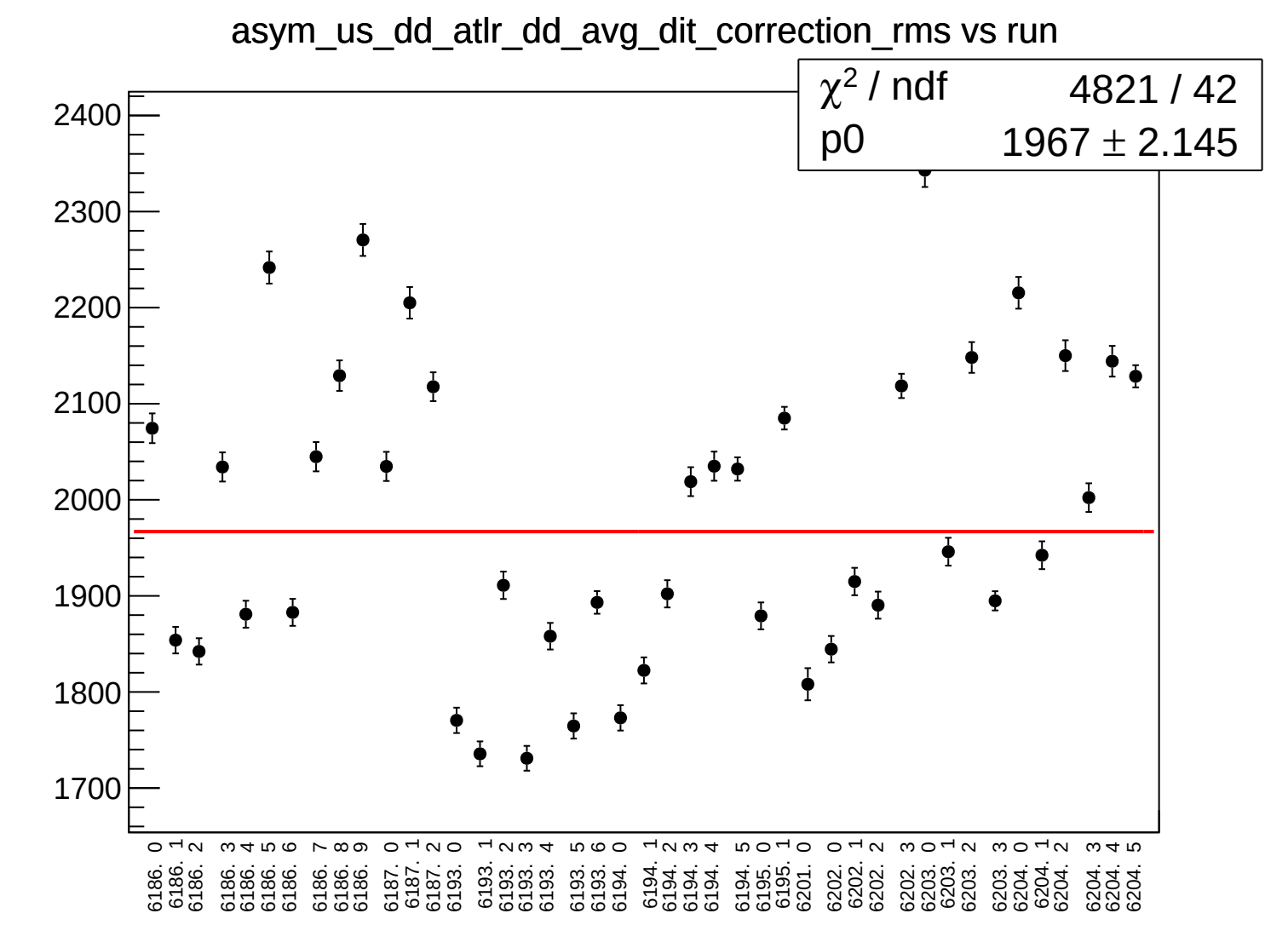

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5112 / 42
p0 1932 ± 2.107
2400
2300
2200
2100
2000
1900
1800
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

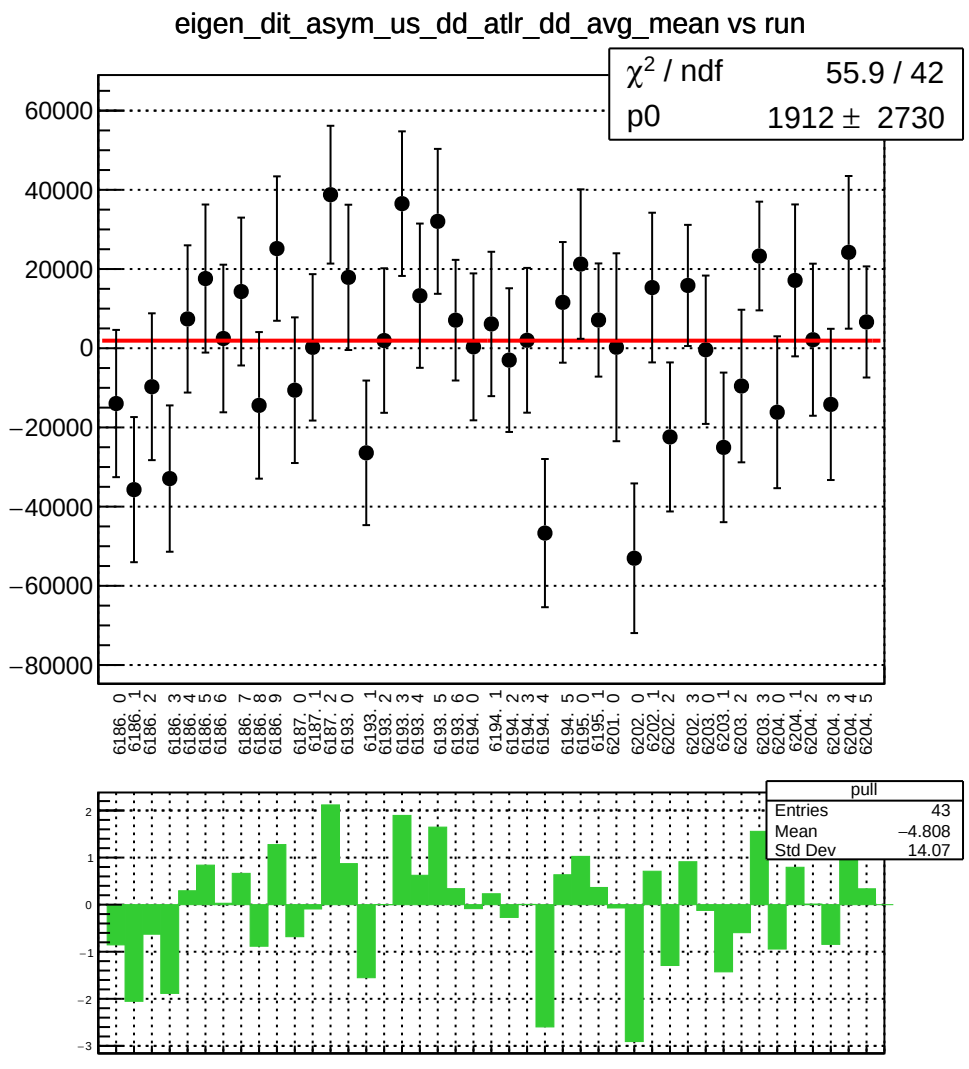

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 55.9 / 42
p0 1912 ± 2730
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −4.808
Std Dev 14.07
2
1
0
−1
−2
−3

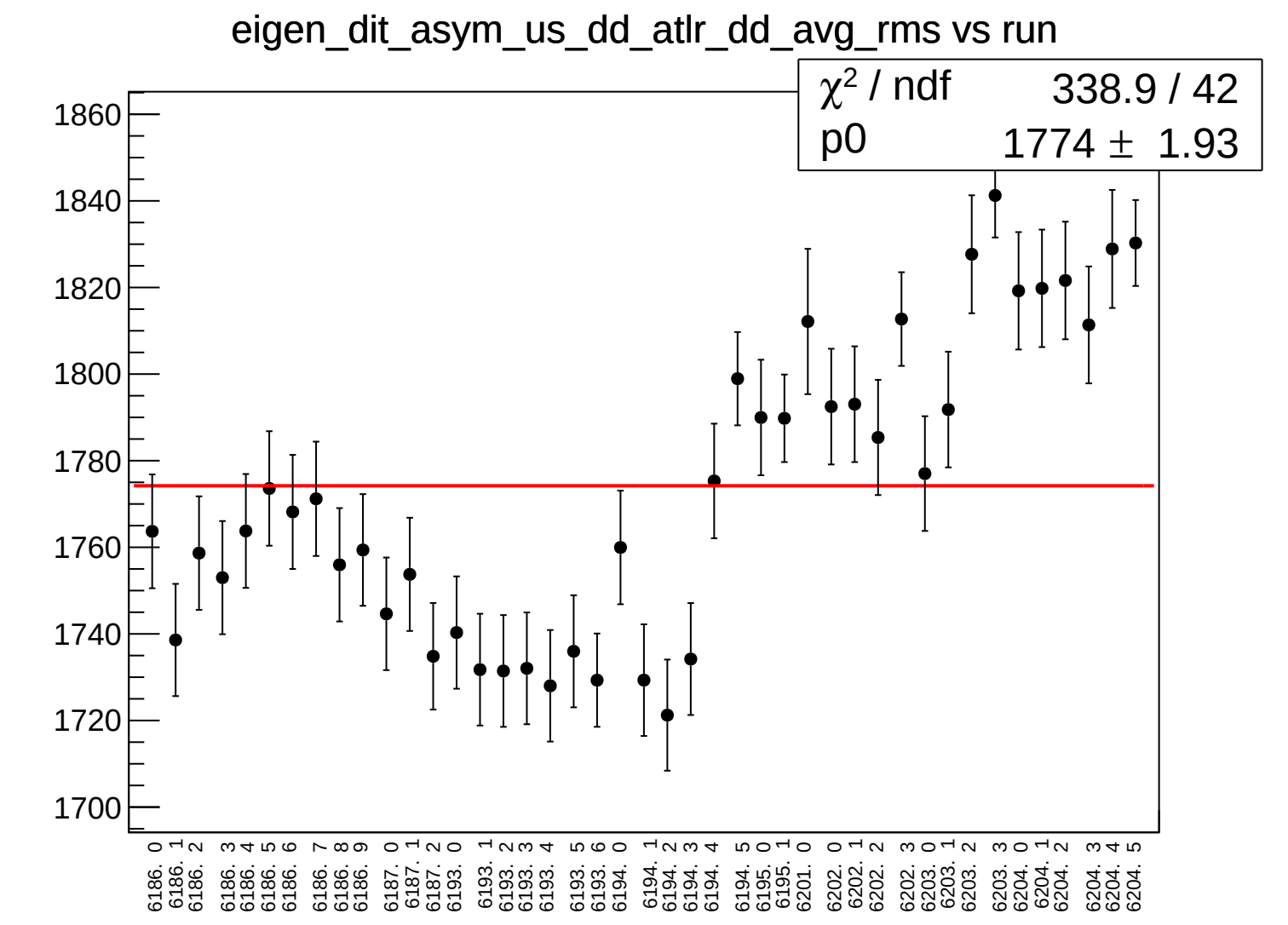

pull1D
Entries 43
Mean −0.03351
Std Dev 1.14
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

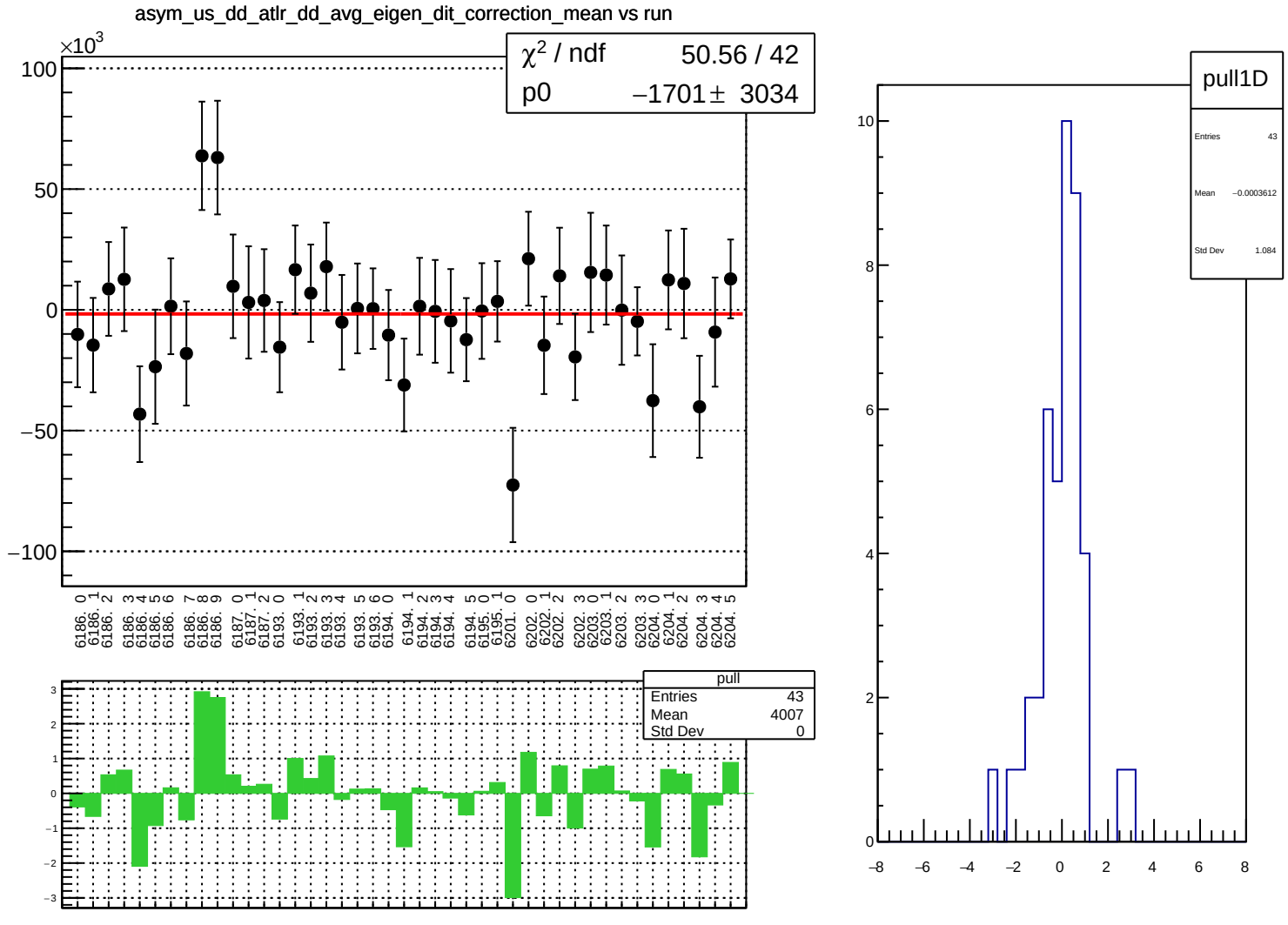

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 338.9 / 42
p0 1774 ± 1.93
1860
1840
1820
1800
1780
1760
1740
1720
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

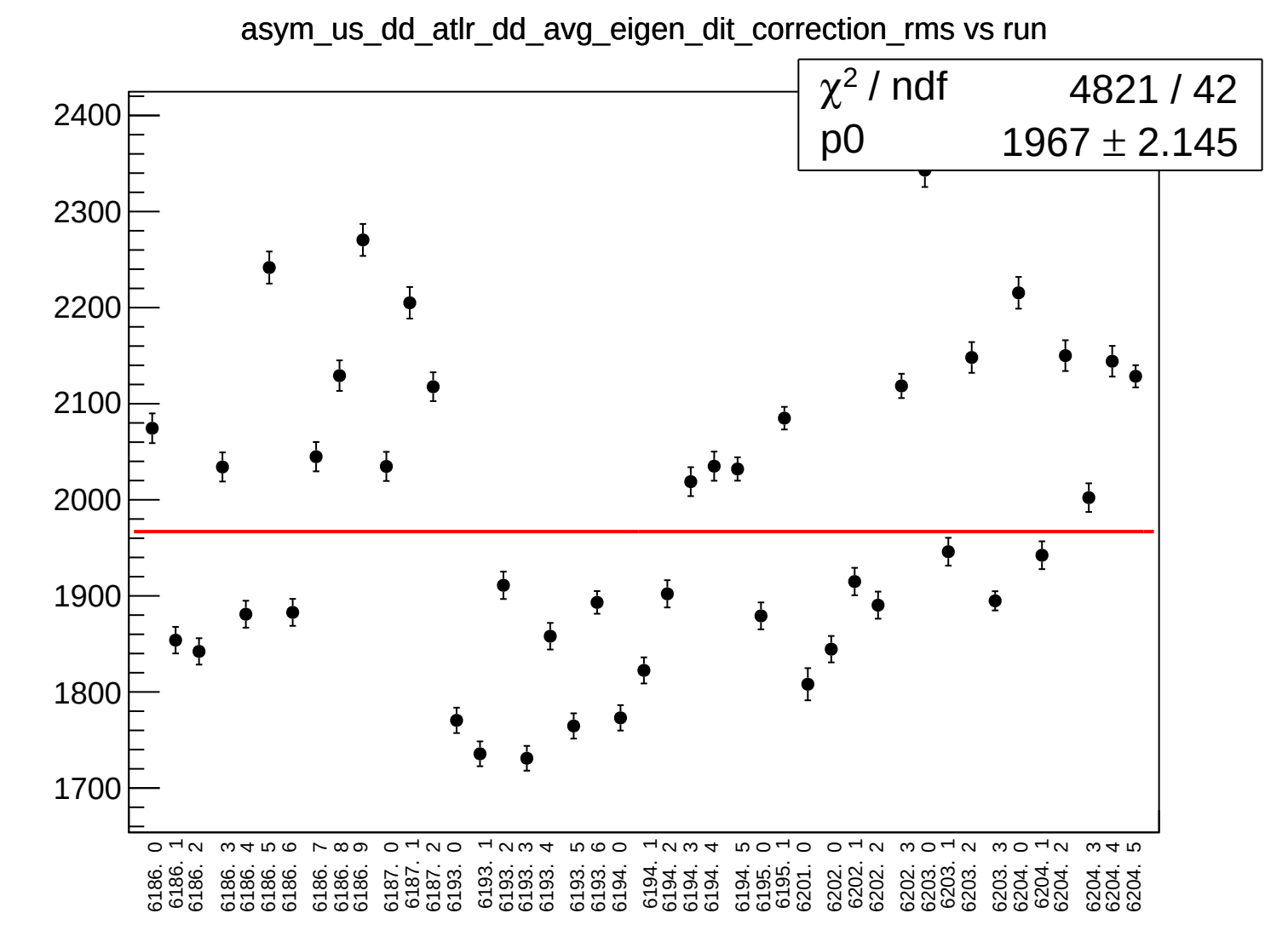

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 50.56 / 42
p0 −1701 ± 3034
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4007
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.0003612
Std Dev 1.084
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

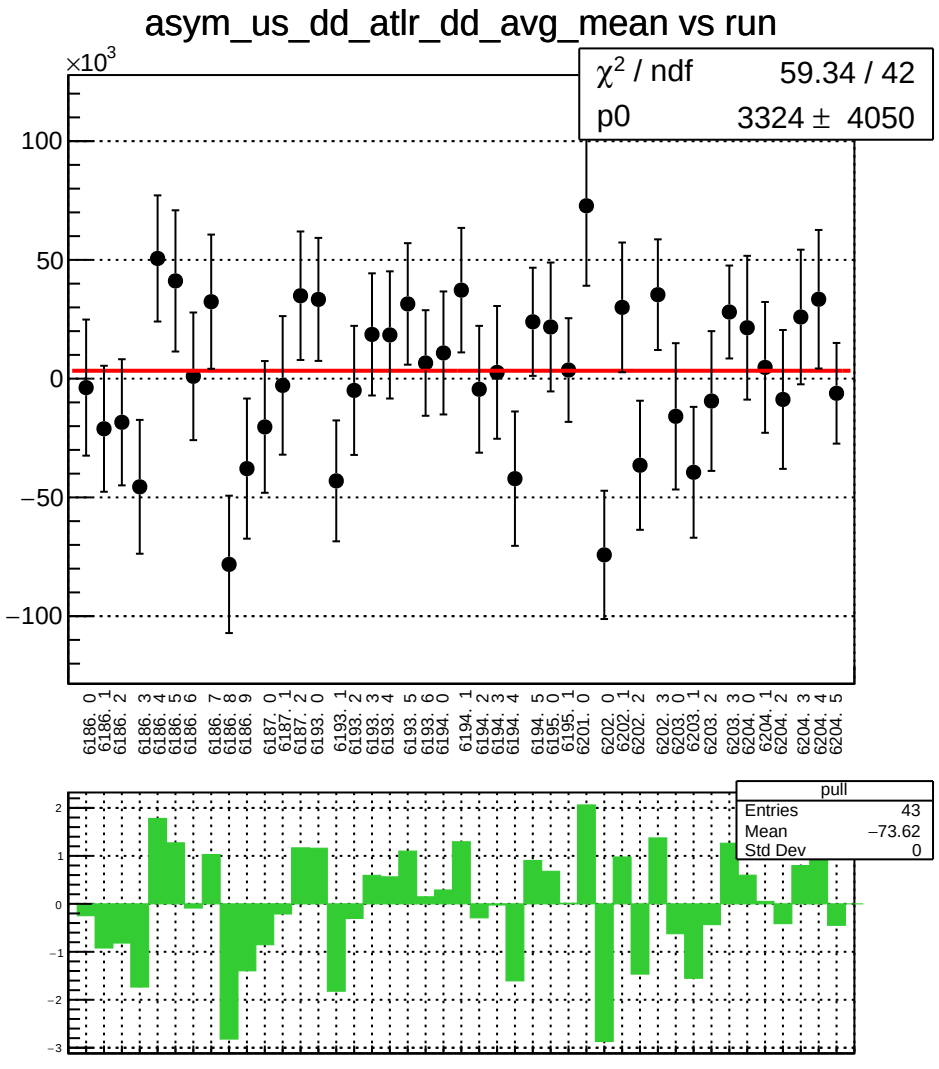

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 4821 / 42
p0 1967 ± 2.145
2400
2300
2200
2100
2000
1900
1800
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

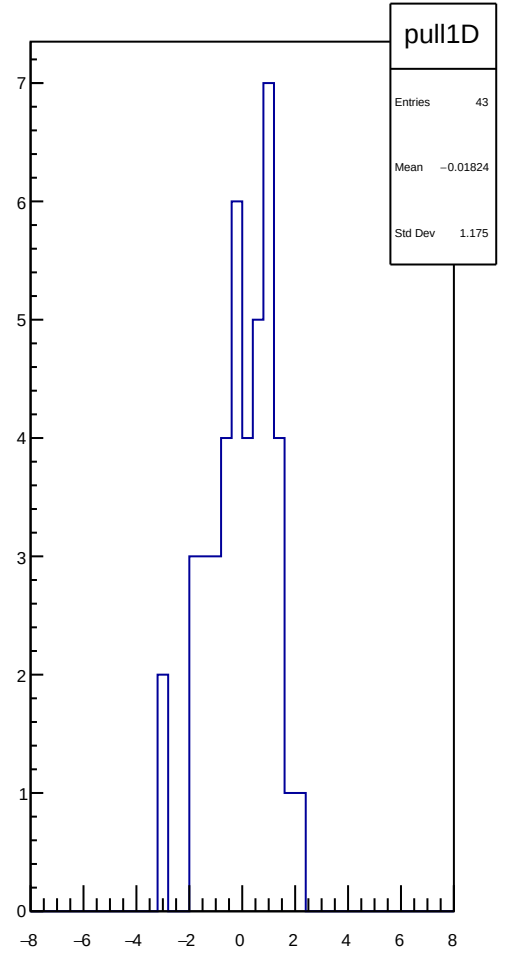

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 55.9 / 42
p0 1912 ± 2730
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −4.808
Std Dev 14.07
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.03351
Std Dev 1.14
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

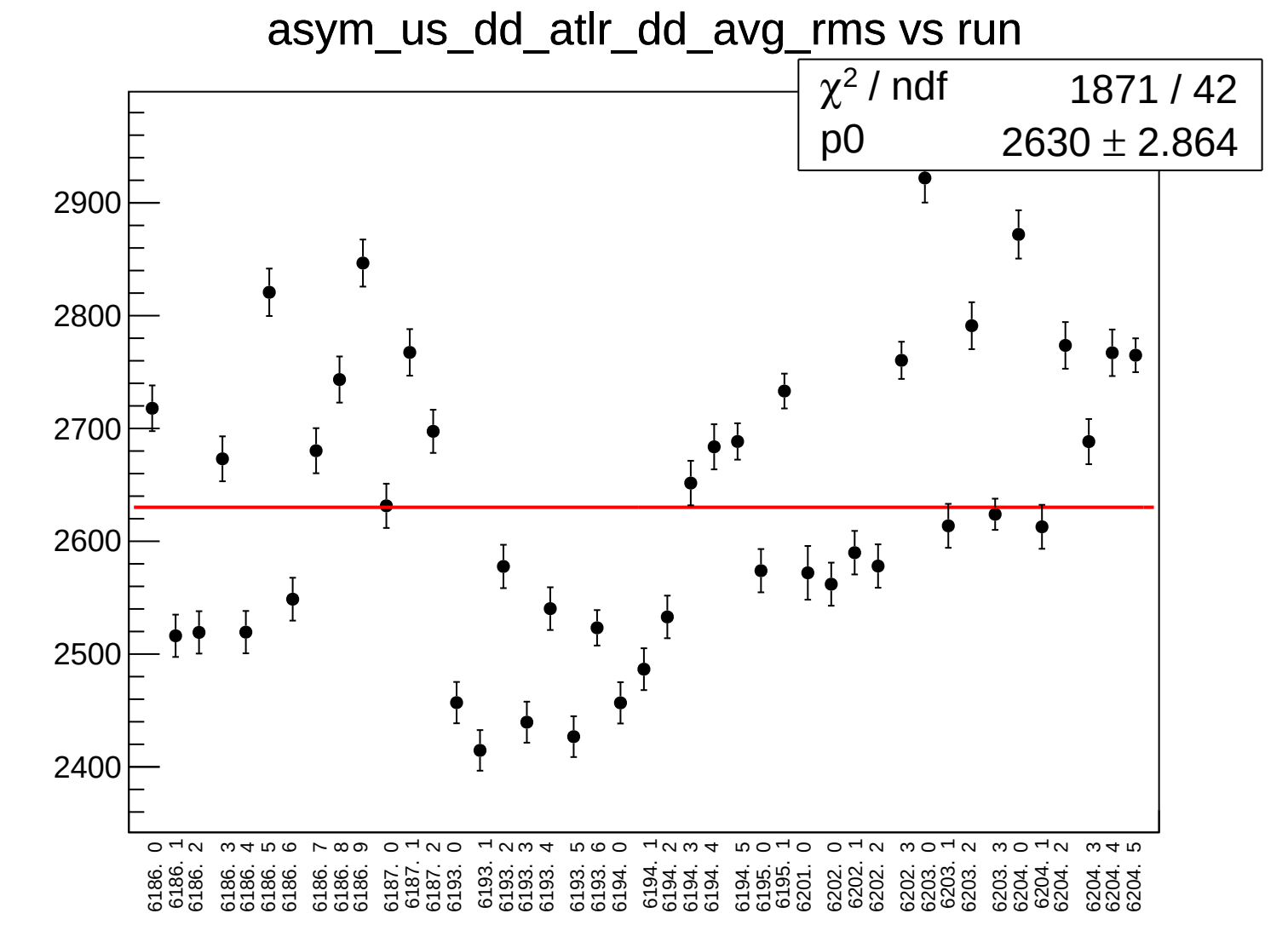

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 338.9 / 42
p0 1774 ± 1.93
1860
1840
1820
1800
1780
1760
1740
1720
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

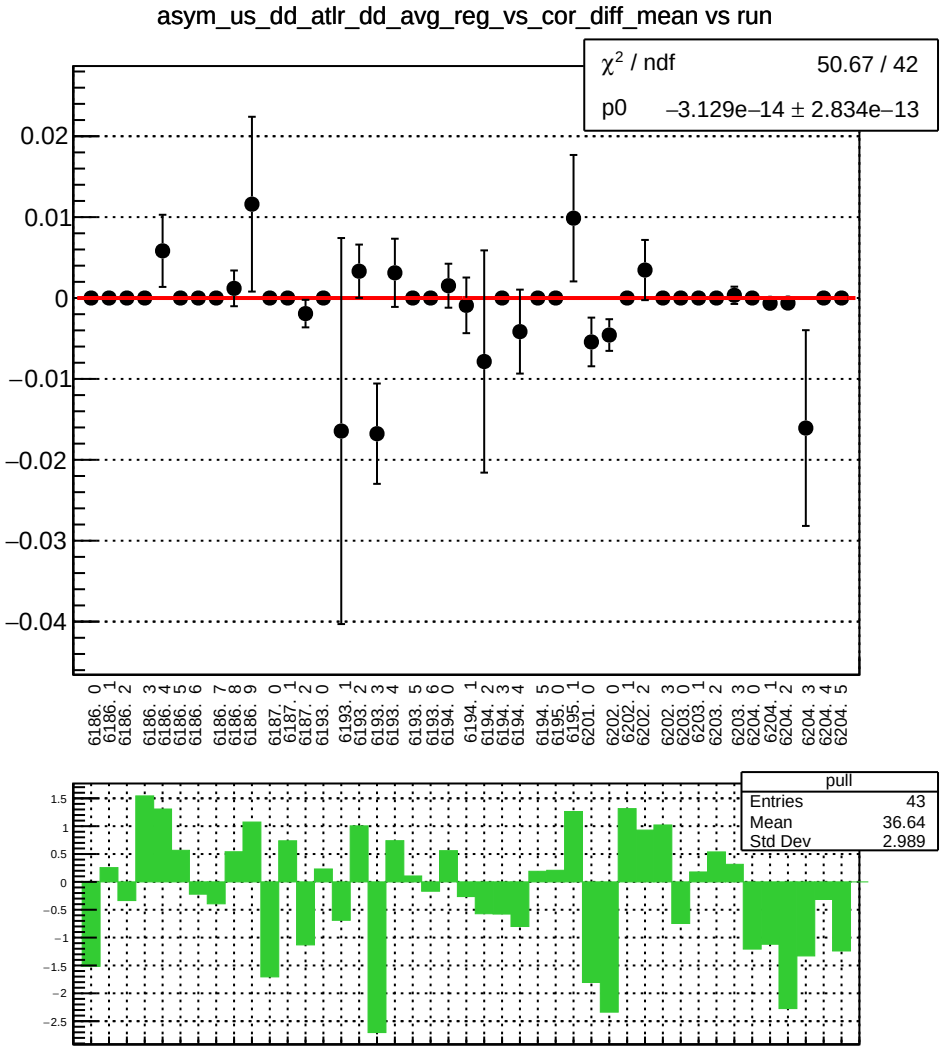

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 50.56 / 42
p0 −1701 ± 3034
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4007
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.0003612
Std Dev 1.084
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

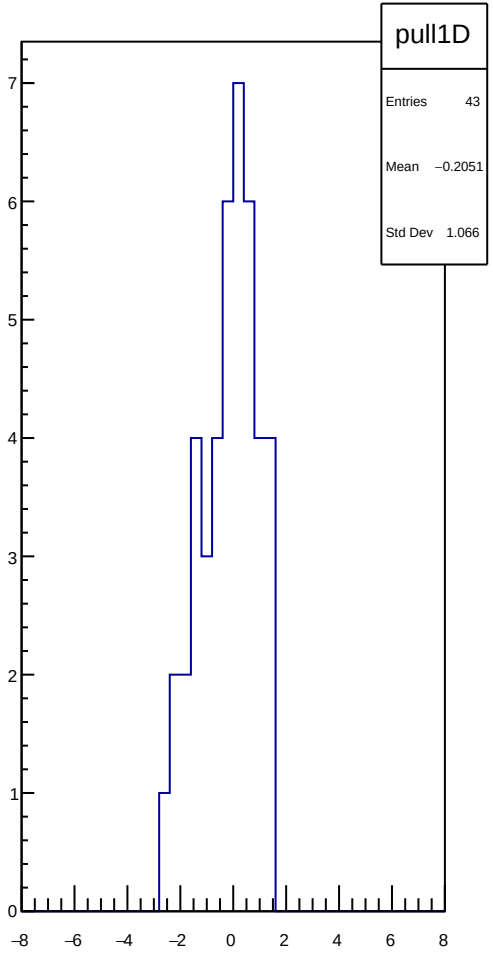

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4821 / 42
p0 1967 ± 2.145
2400
2300
2200
2100
2000
1900
1800
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

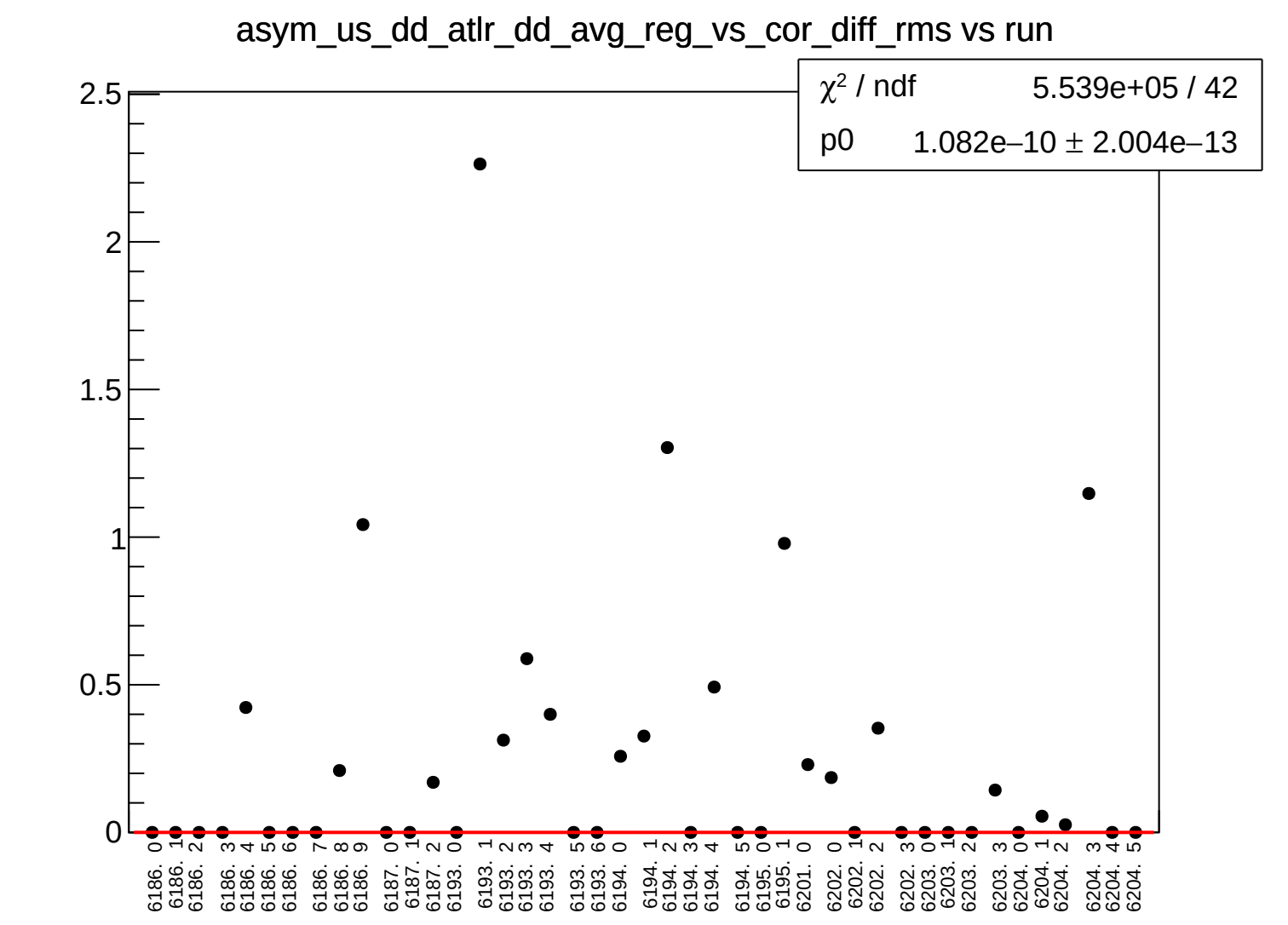

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ² / ndf 59.34 / 42
p0 3324 ± 4050
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −73.62
Std Dev 0
2
1
0
−1
−2
−3

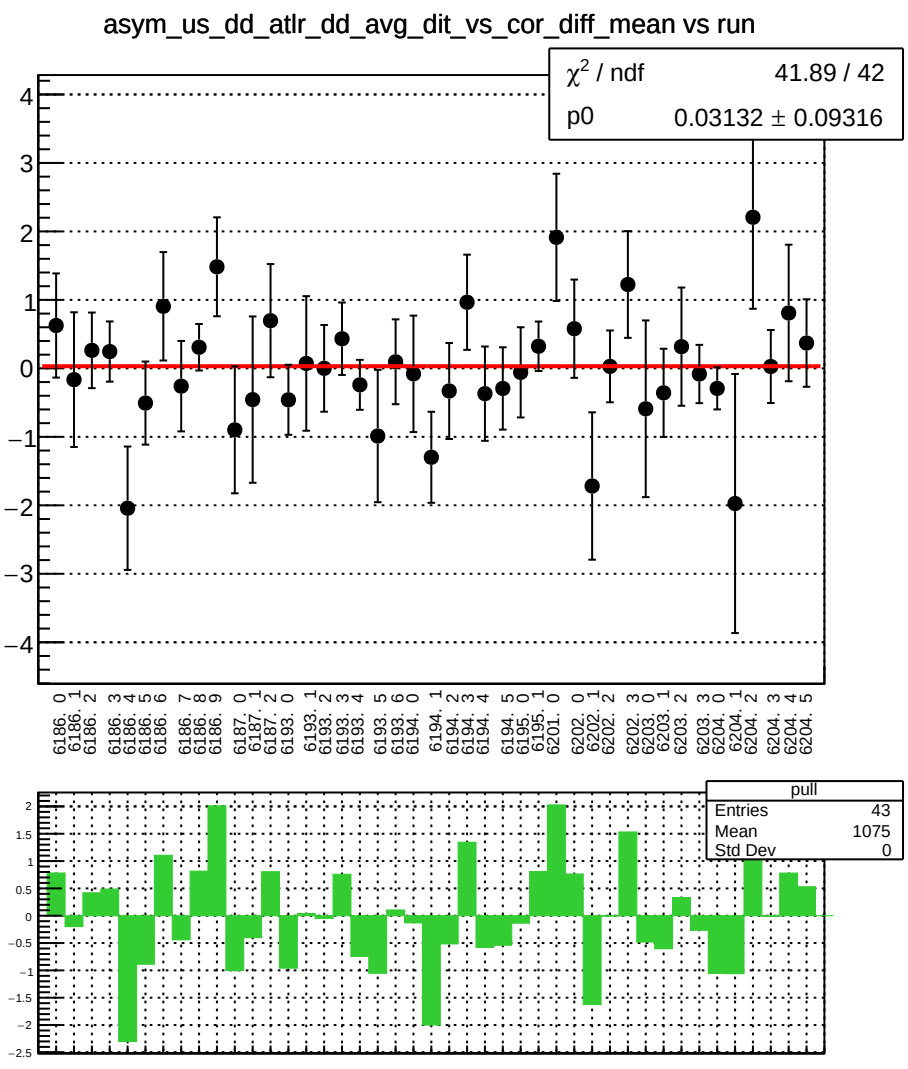

pull1D
Entries 43
Mean −0.01824
Std Dev 1.175
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

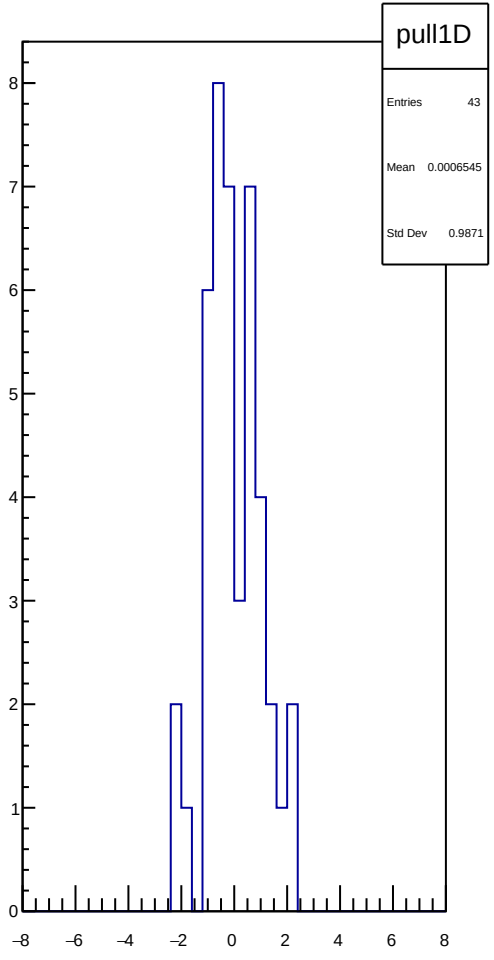

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1871 / 42
p0 2630 ± 2.864
2900
2800
2700
2600
2500
2400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

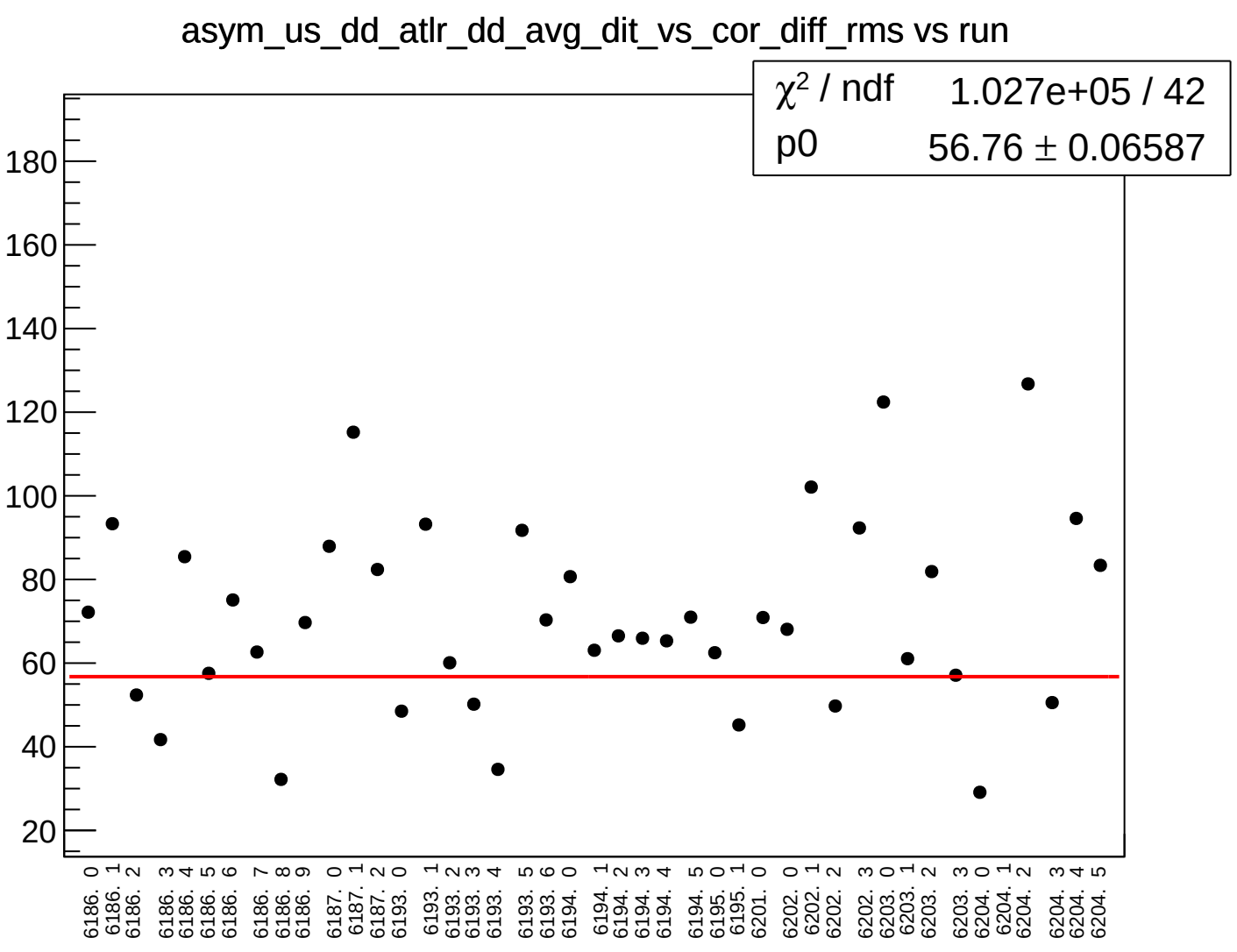

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 50.67 / 42
p0 −3.129e−14 ± 2.834e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 36.64
Std Dev 2.989
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

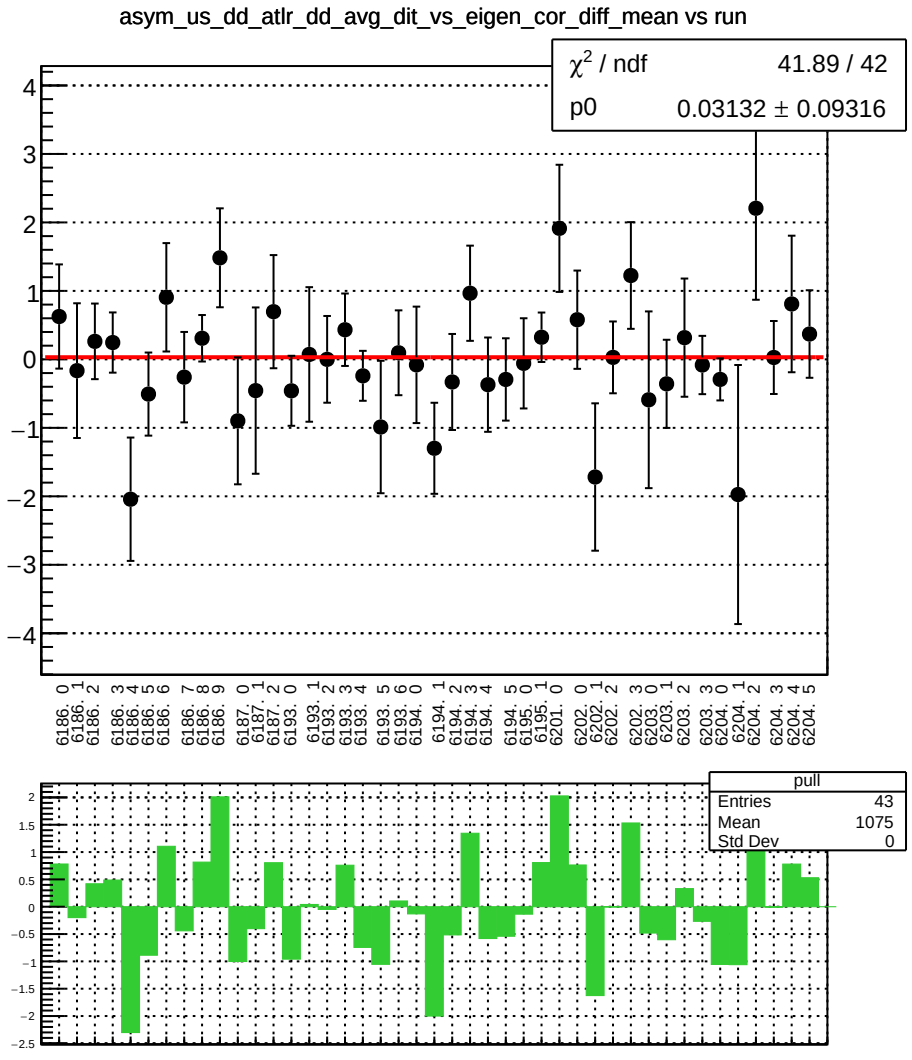

pull1D
Entries 43
Mean −0.2051
Std Dev 1.066
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

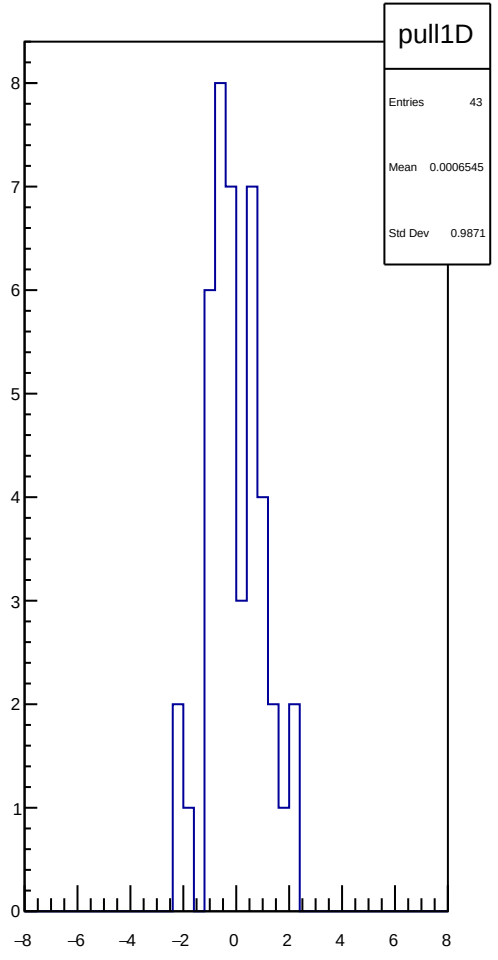

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.539e+05 / 42
p0 1.082e−10 ± 2.004e−13
2.5
2
1.5
1
0.5
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

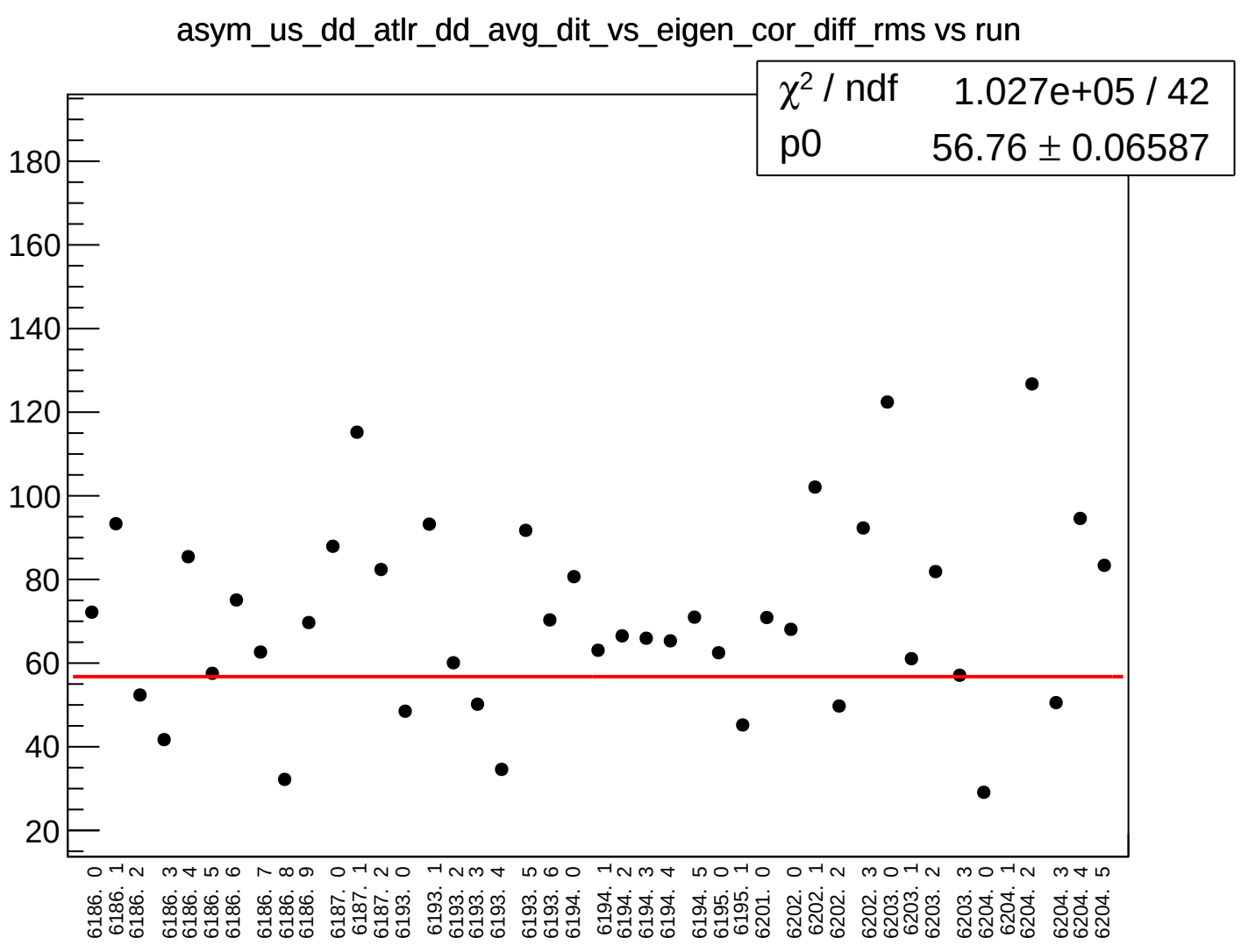

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 41.89 / 42
p0 0.03132 ± 0.09316
pull
Entries 43
Mean 1075
Std Dev 0

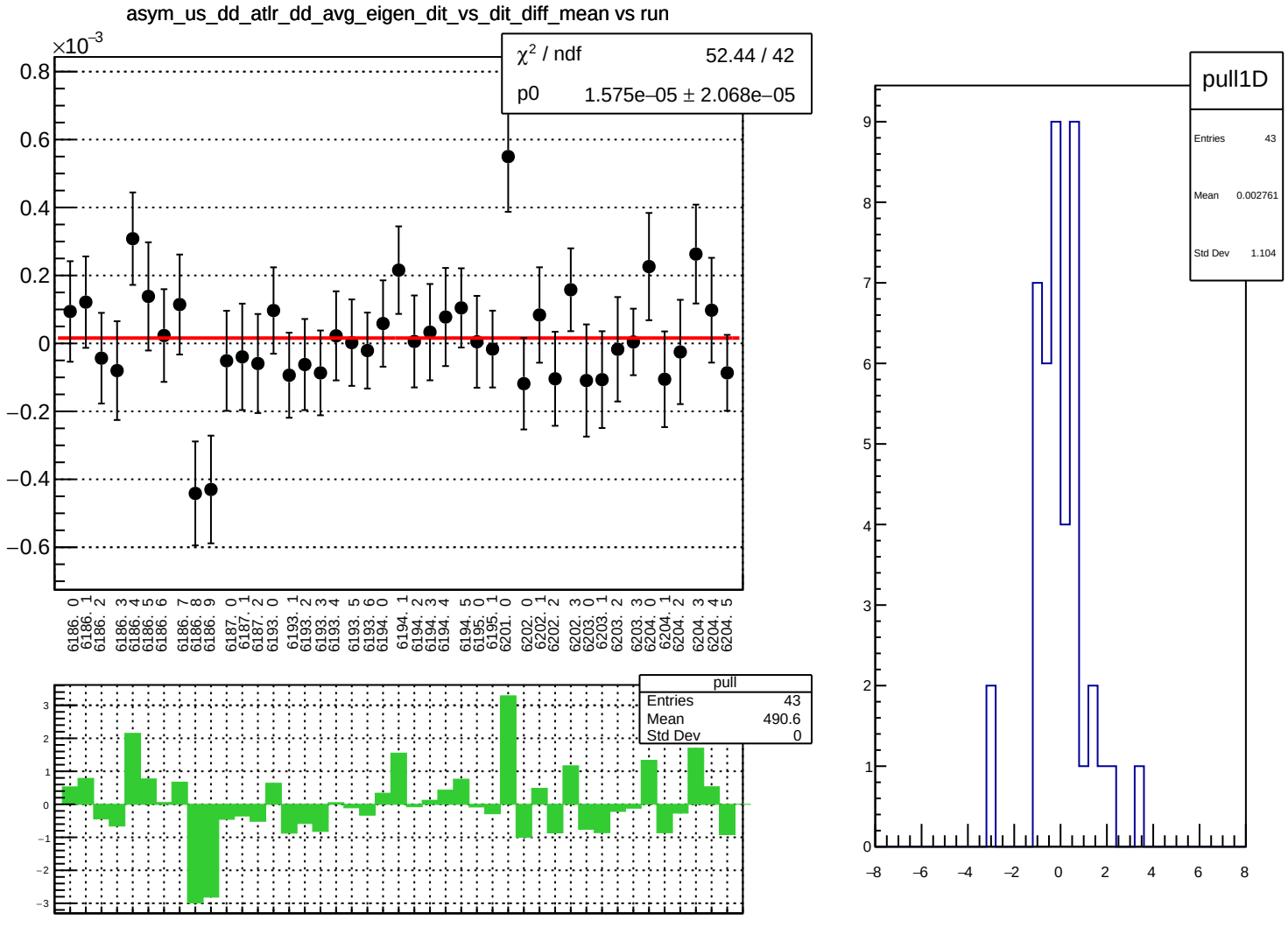

pull1D
Entries 43
Mean 0.0006545
Std Dev 0.9871

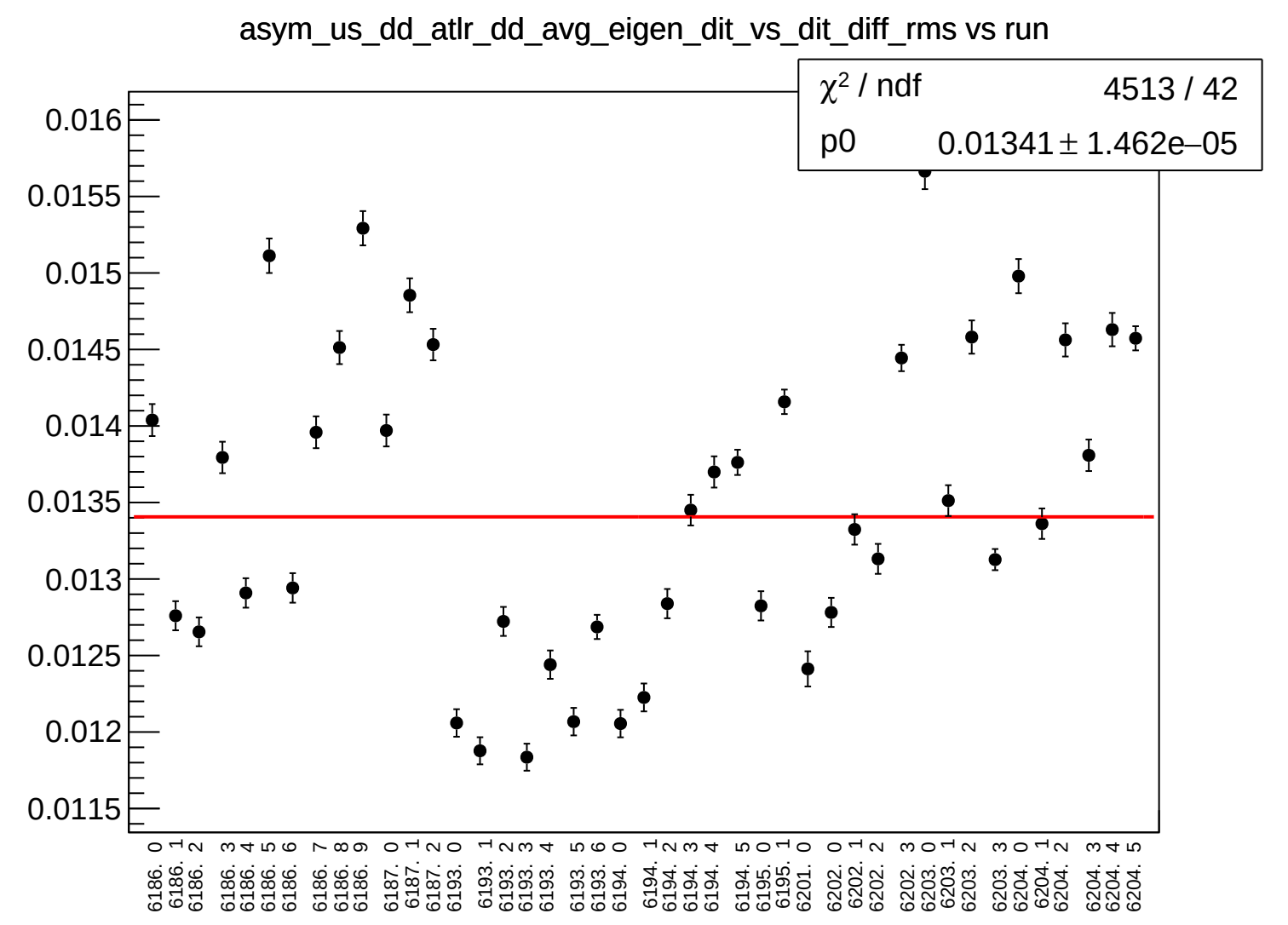

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.027e+05 / 42
p0 56.76 ± 0.06587
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.89 / 42
p0 0.03132 ± 0.09316
pull
Entries 43
Mean 1075
Std Dev 0


pull1D
Entries 43
Mean 0.0006545
Std Dev 0.9871


asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.027e+05 / 42
p0 56.76 ± 0.06587
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 52.44 / 42
p0 1.575e−05 ± 2.068e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 490.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.002761
Std Dev 1.104
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4513 / 42
p0 0.01341 ± 1.462e−05
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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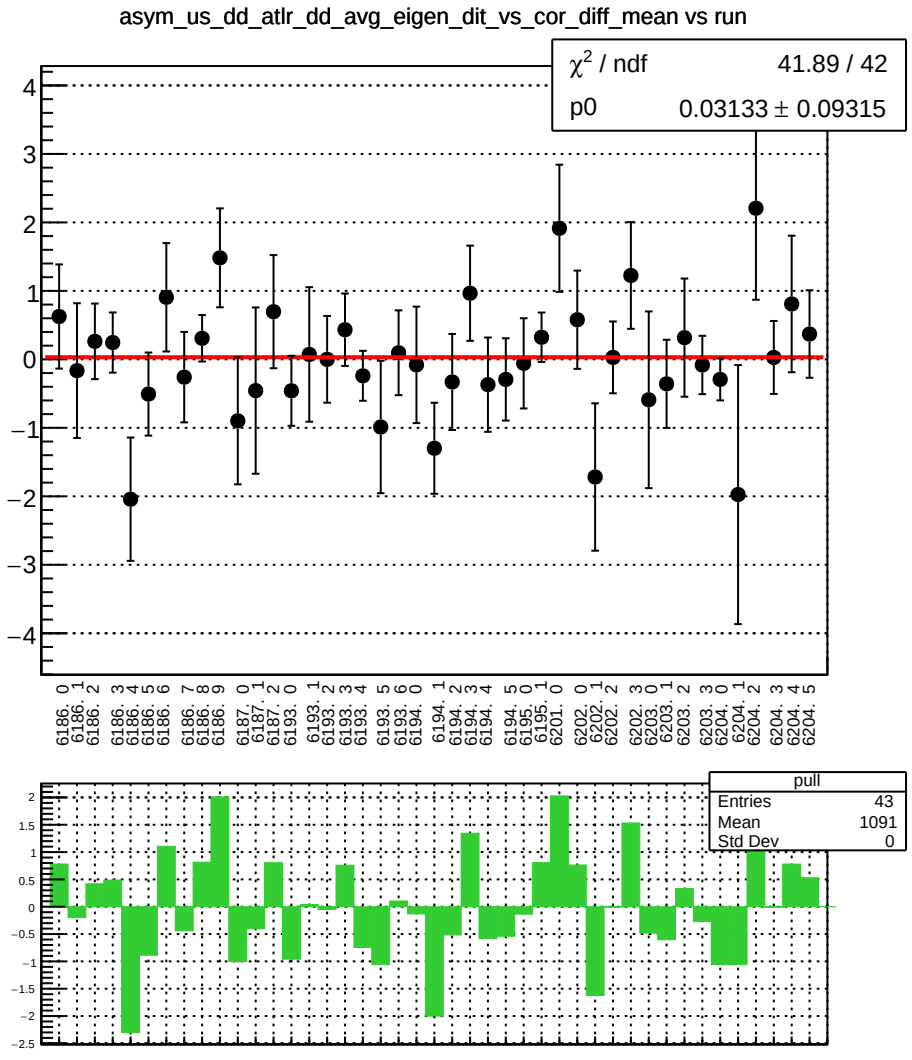
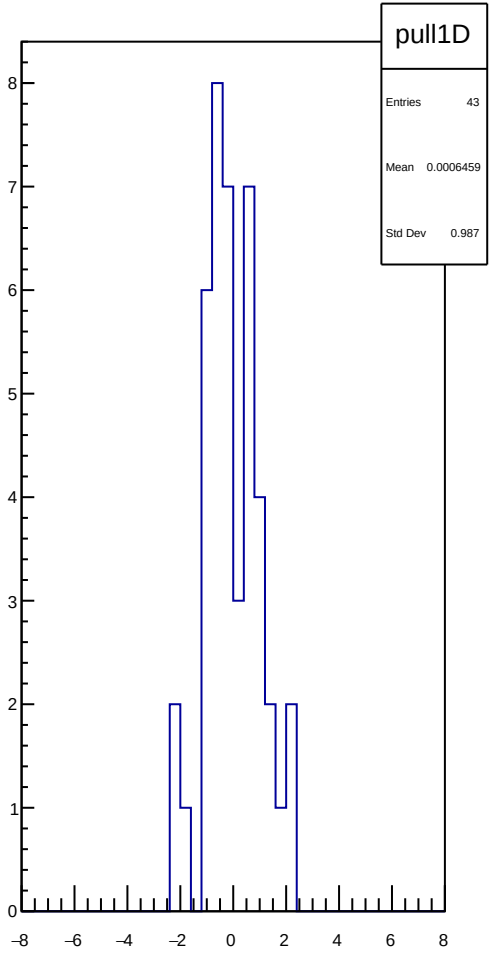
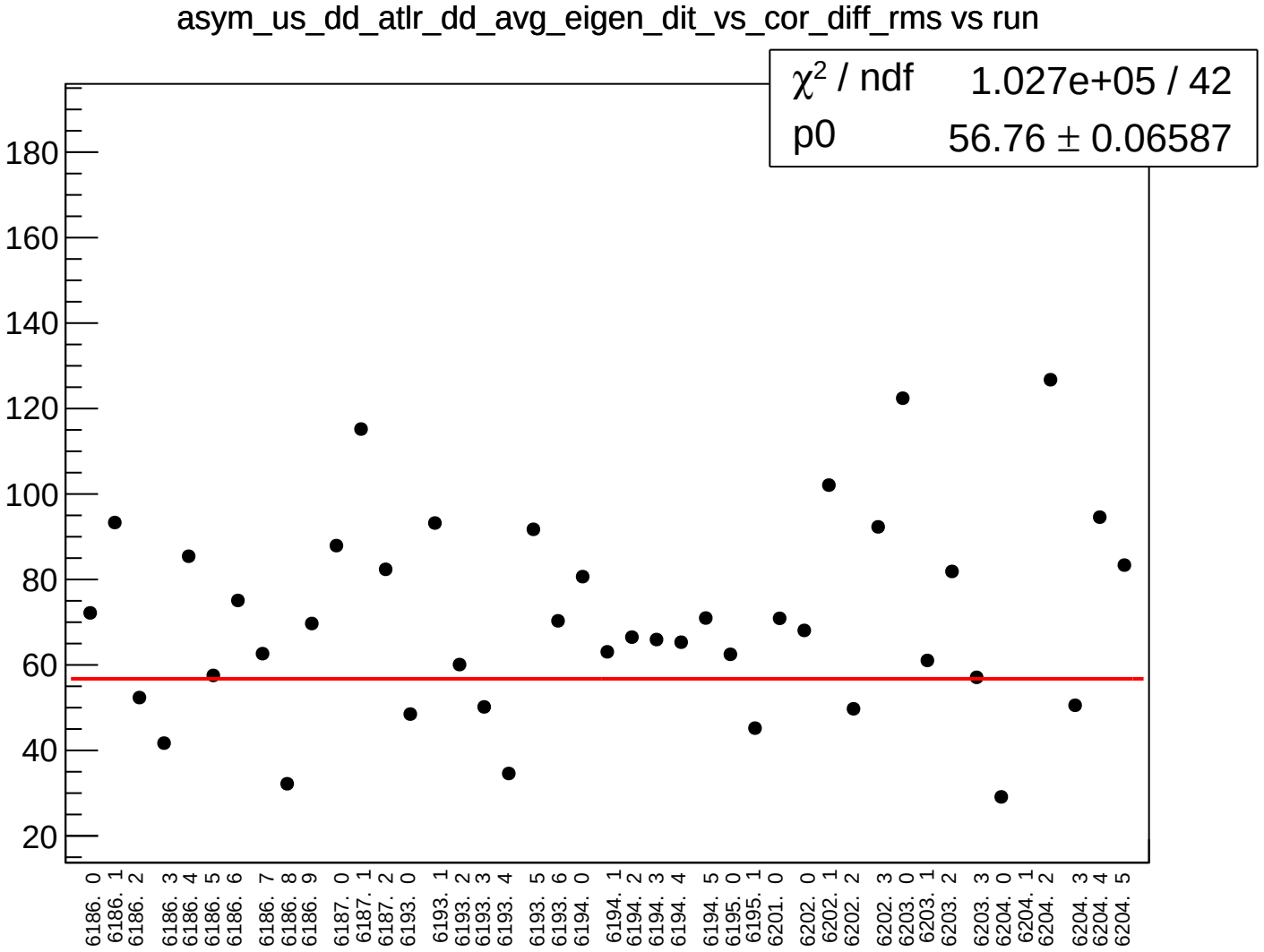
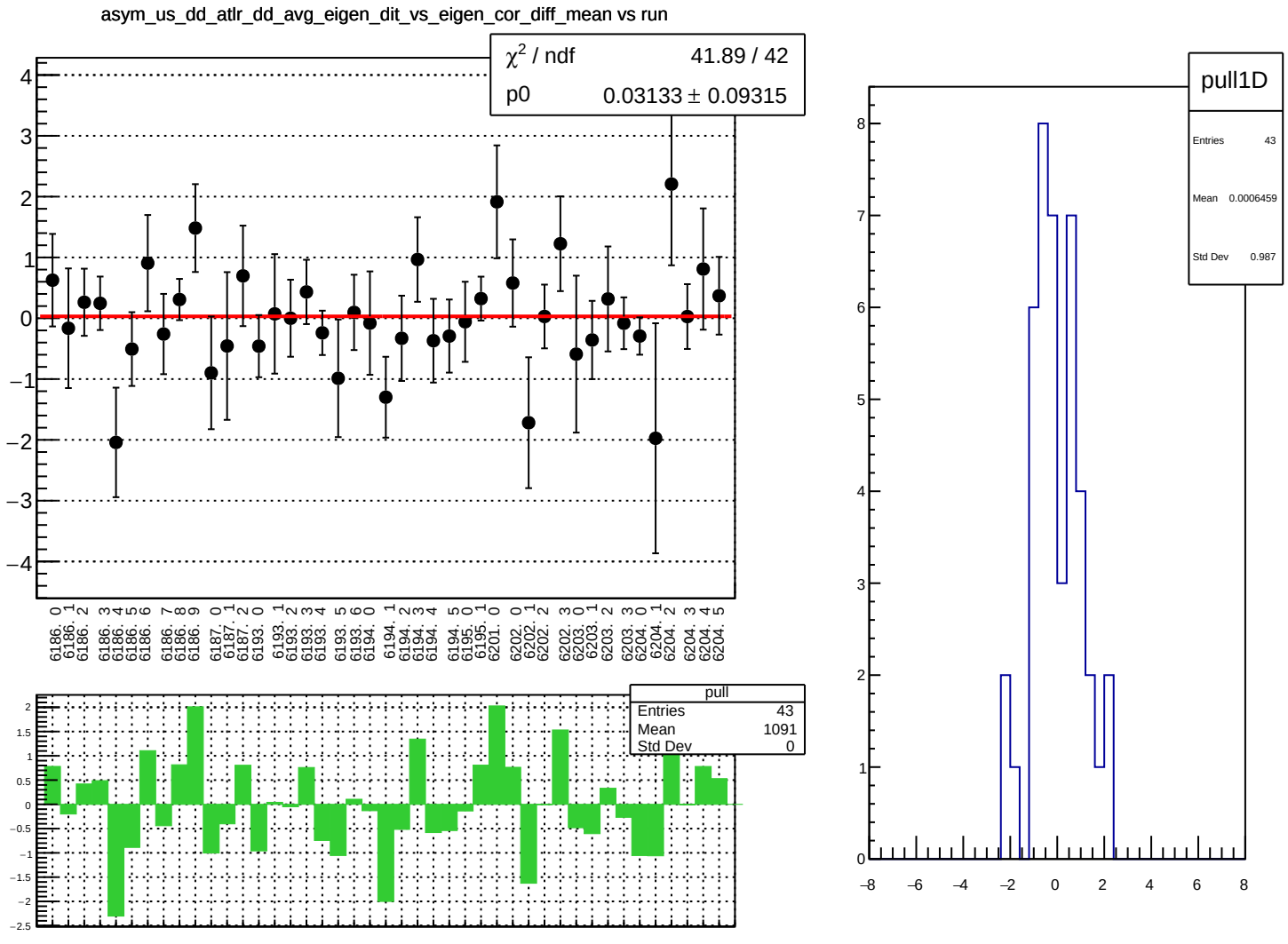
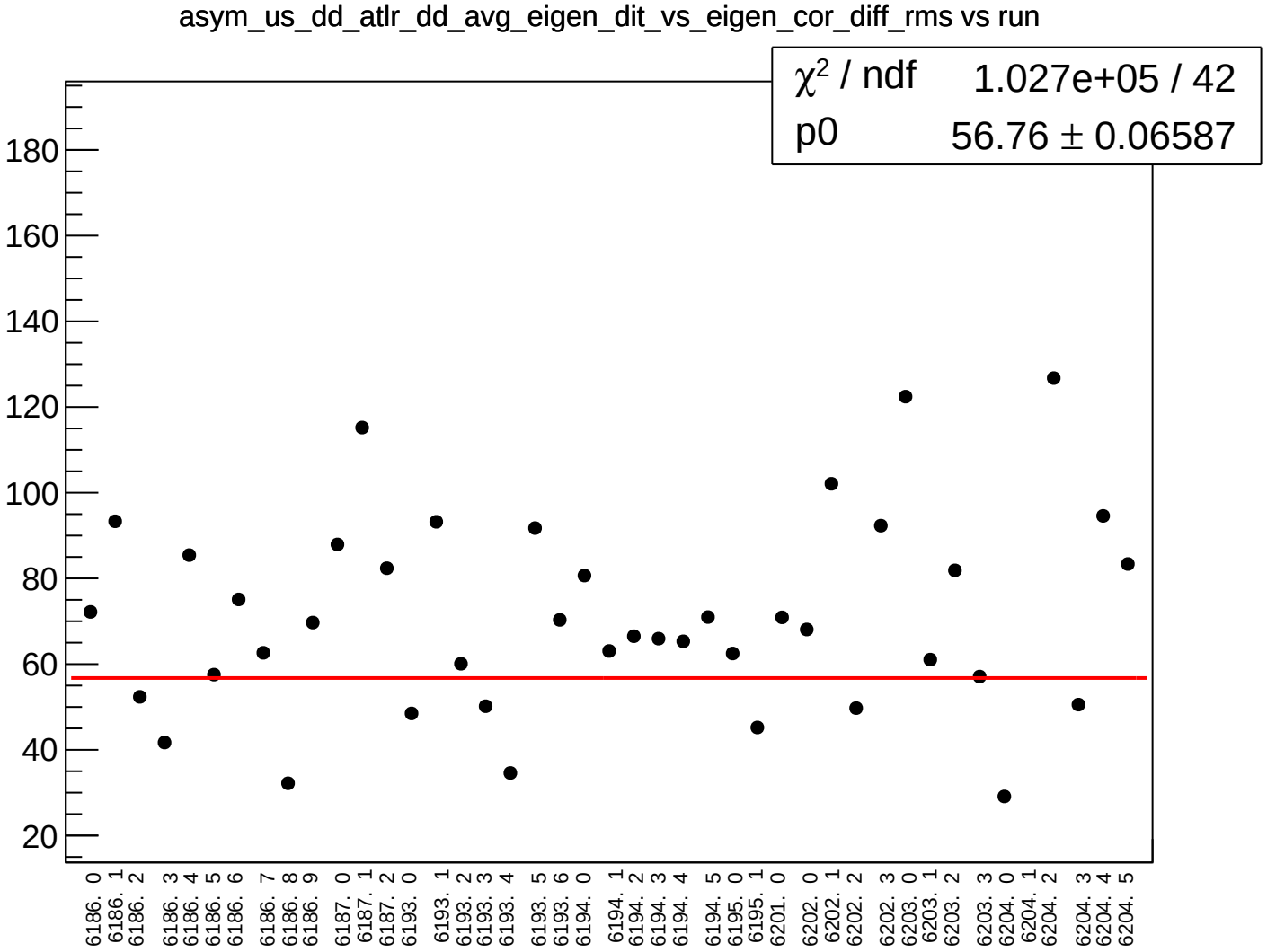
6204. 2
6204. 3
6204. 4
6204. 5

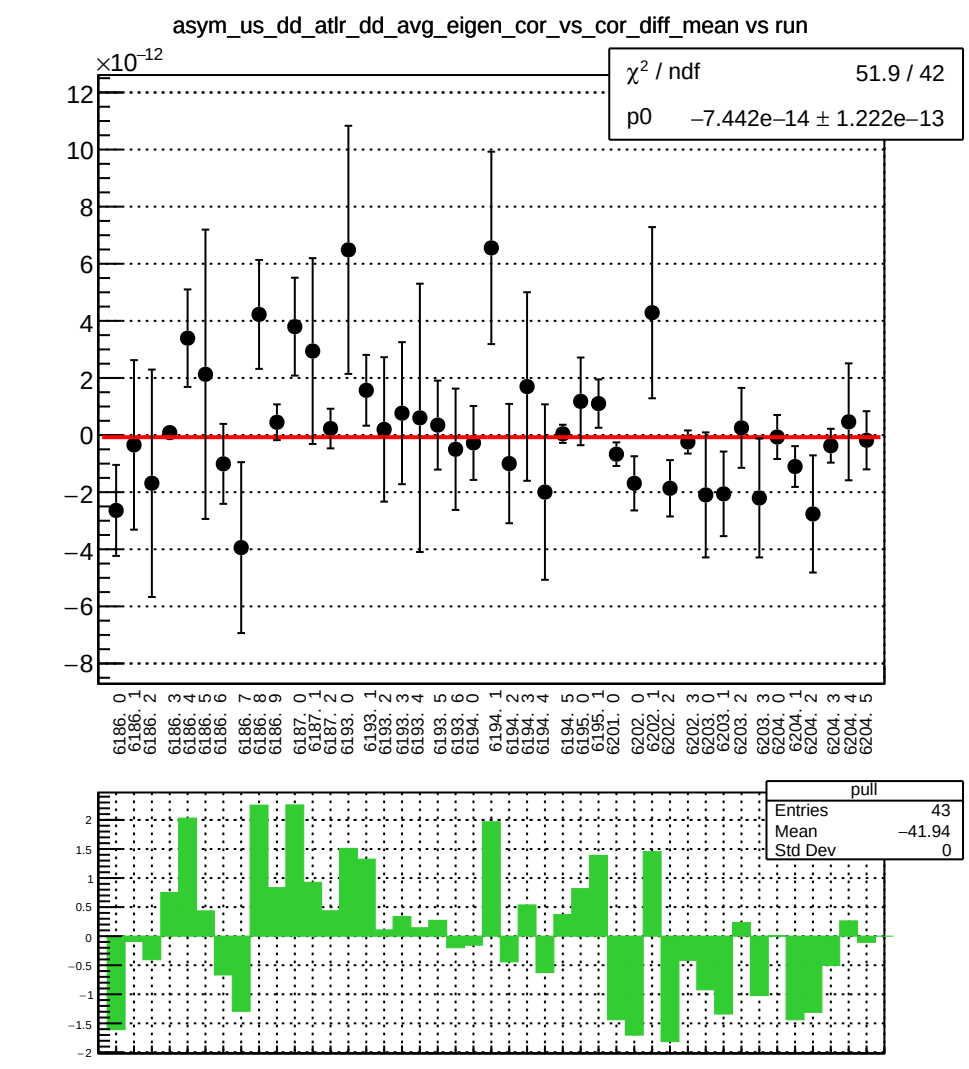

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 41.89 / 42
p0 0.03133 ± 0.09315
pull
Entries 43
Mean 1091
Std Dev 0

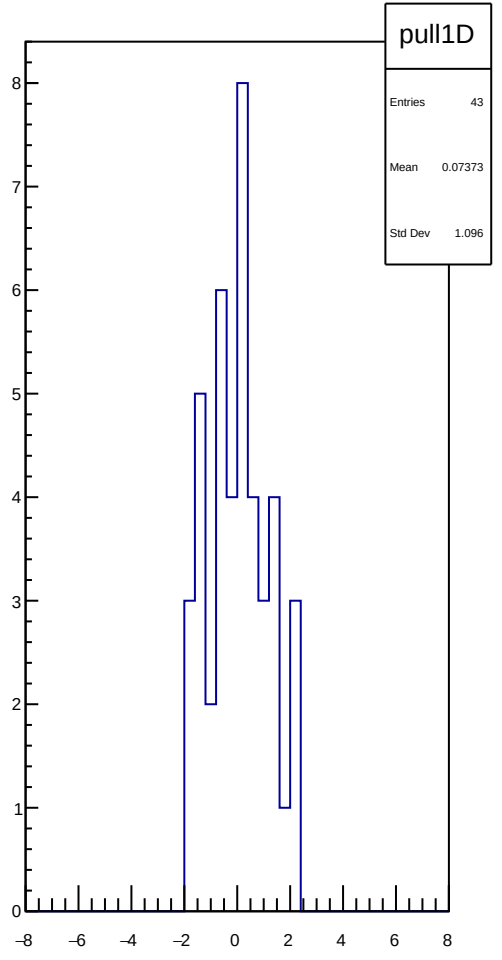

pull1D
Entries 43
Mean 0.0006459
Std Dev 0.987

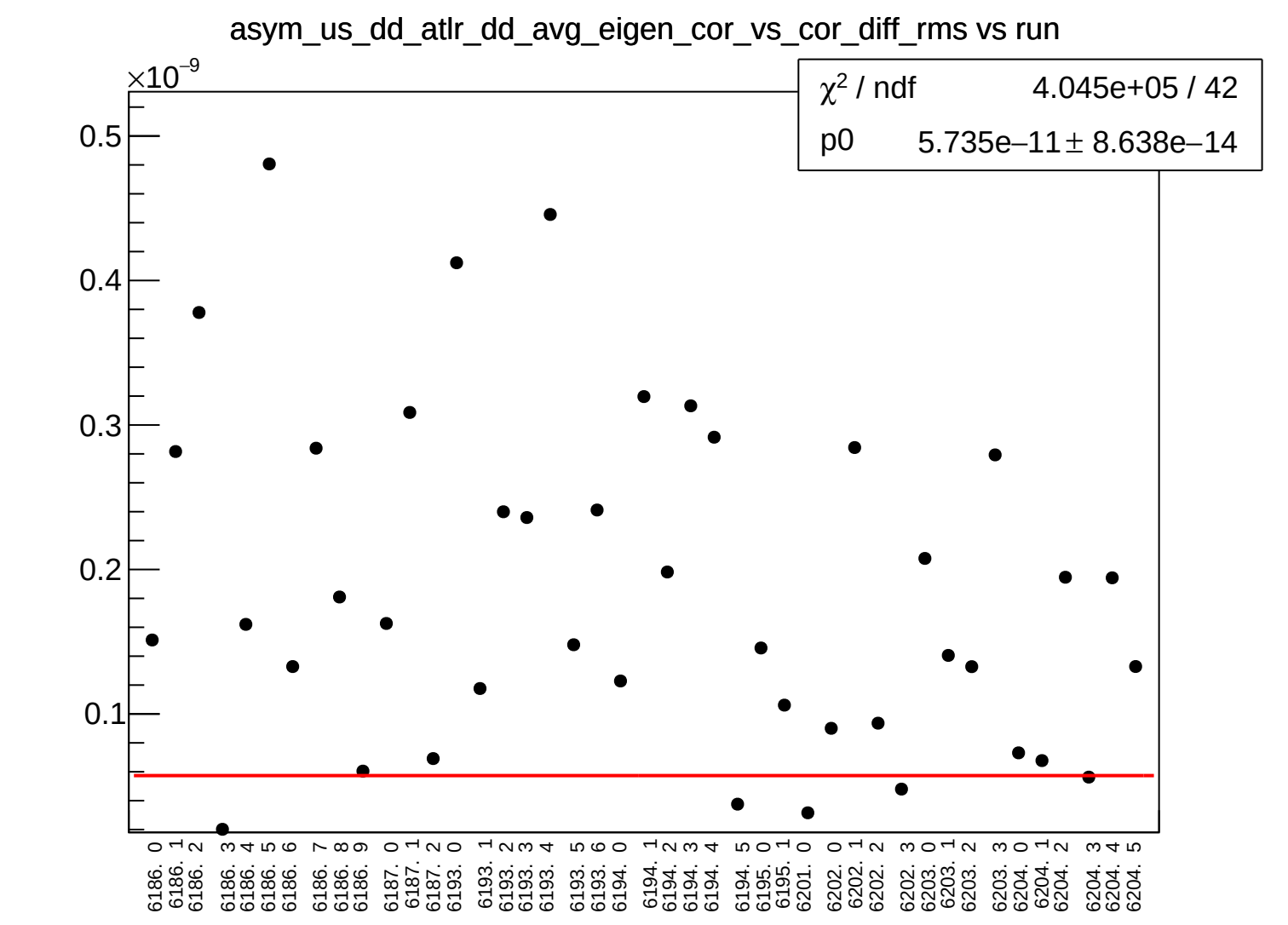

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.027e+05 / 42
p0 56.76 ± 0.06587
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

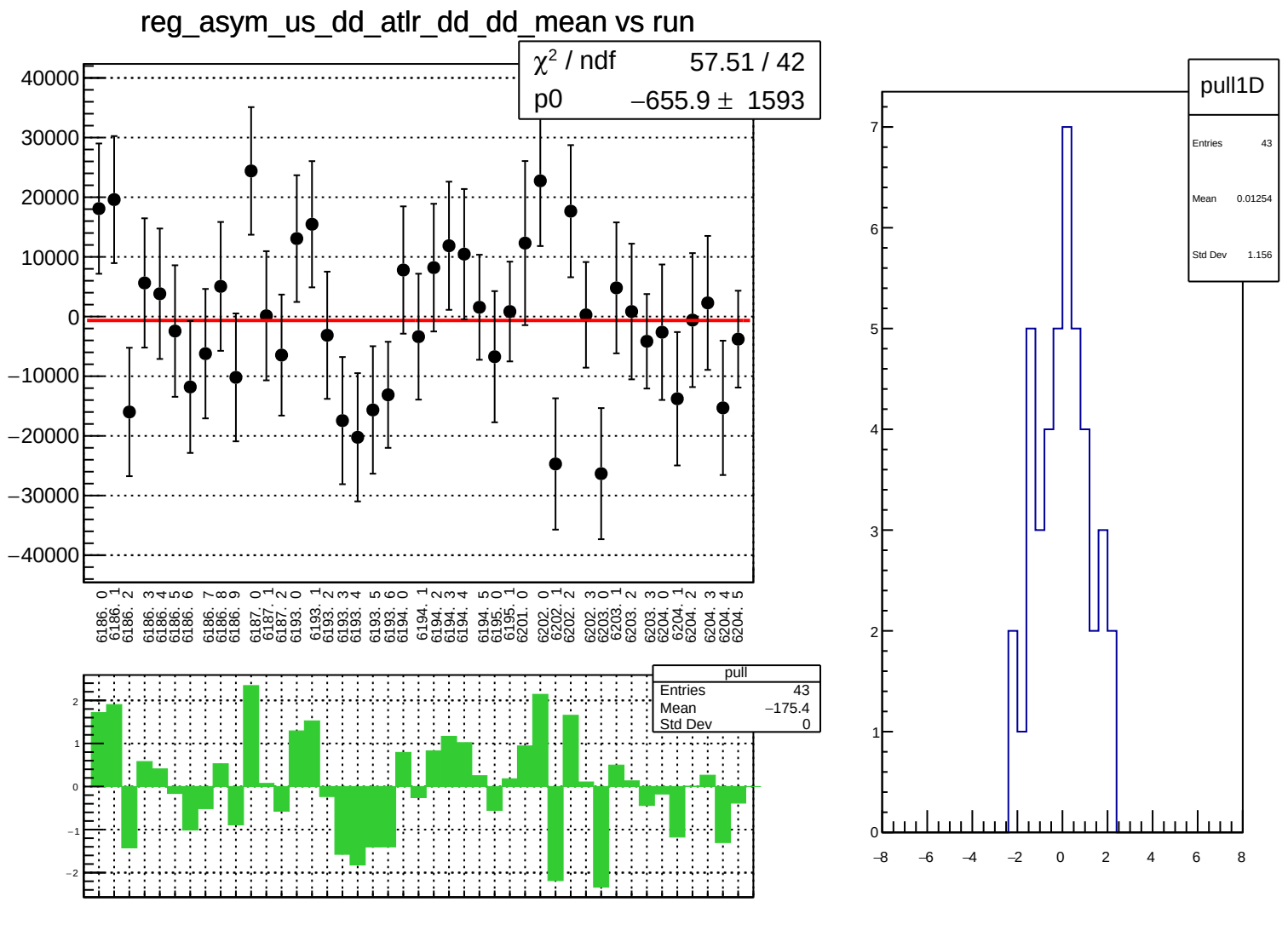

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 41.89 / 42
p0 0.03133 ± 0.09315
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1091
Std Dev 0
pull1D
Entries 43
Mean 0.0006459
Std Dev 0.987

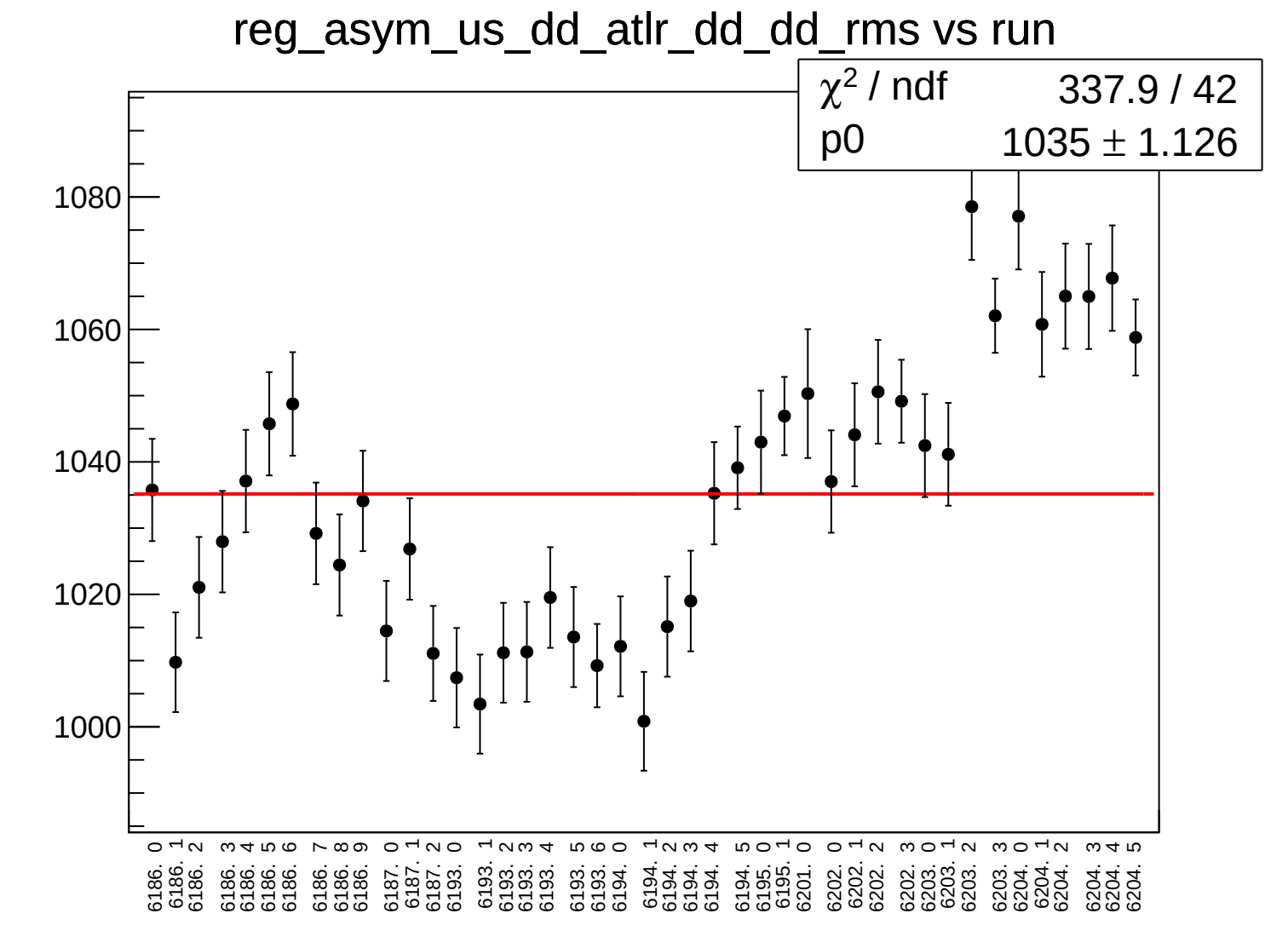

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.027e+05 / 42
p0 56.76 ± 0.06587
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

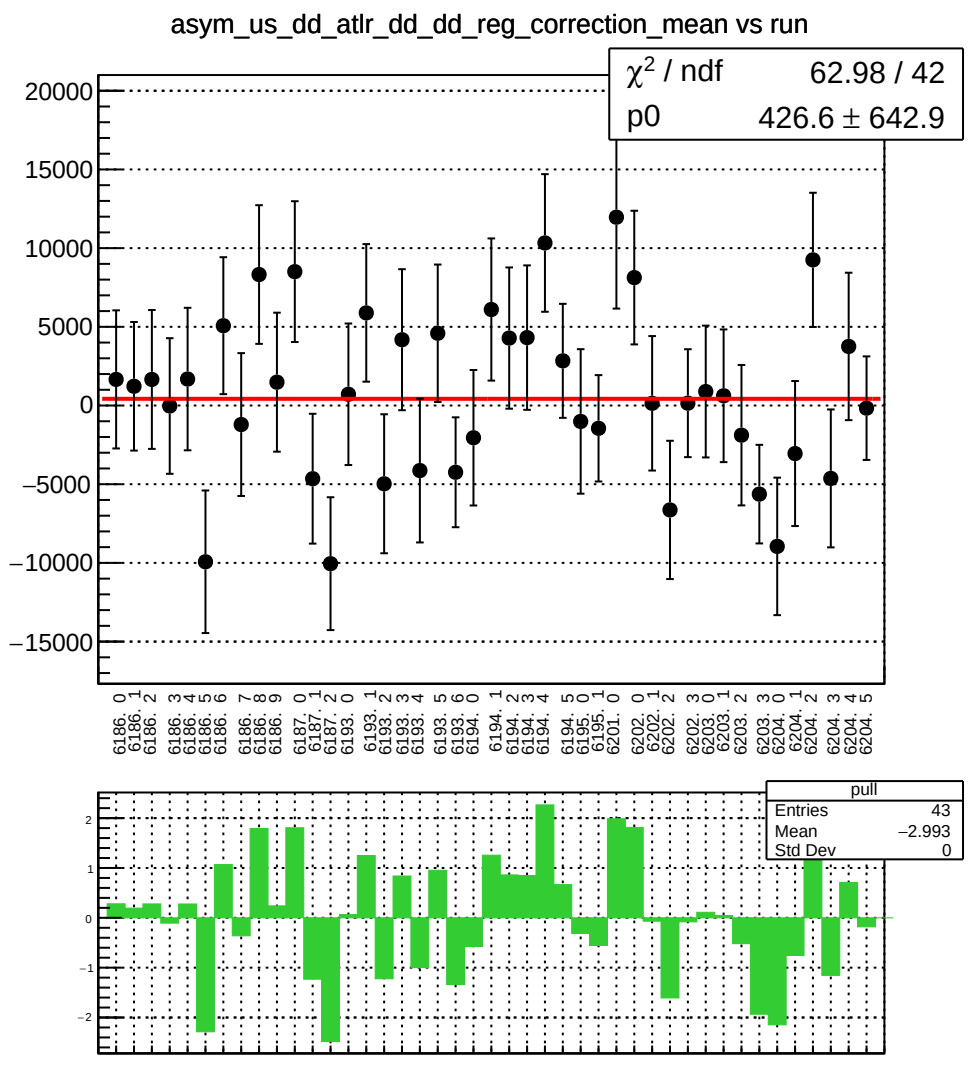

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 51.9 / 42
p0 −7.442e−14 ± 1.222e−13
pull
Entries 43
Mean −41.94
Std Dev 0

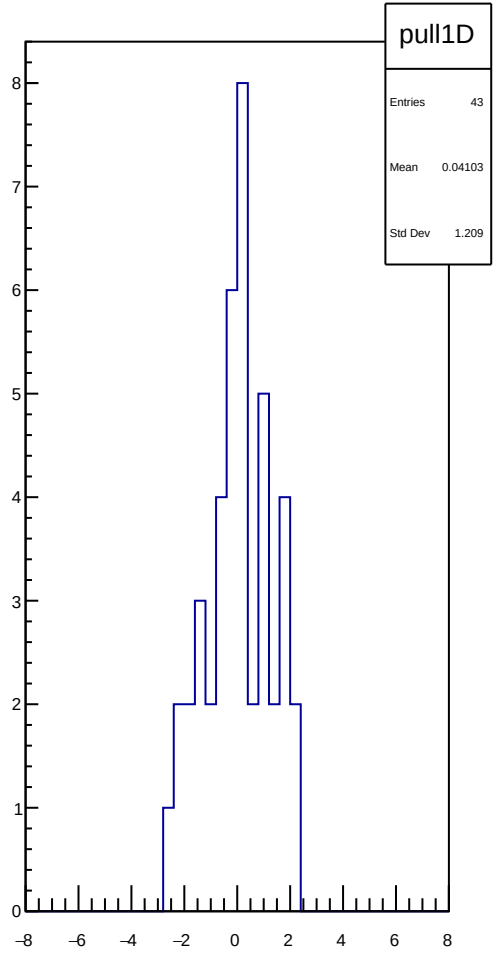

pull1D
Entries 43
Mean 0.07373
Std Dev 1.096

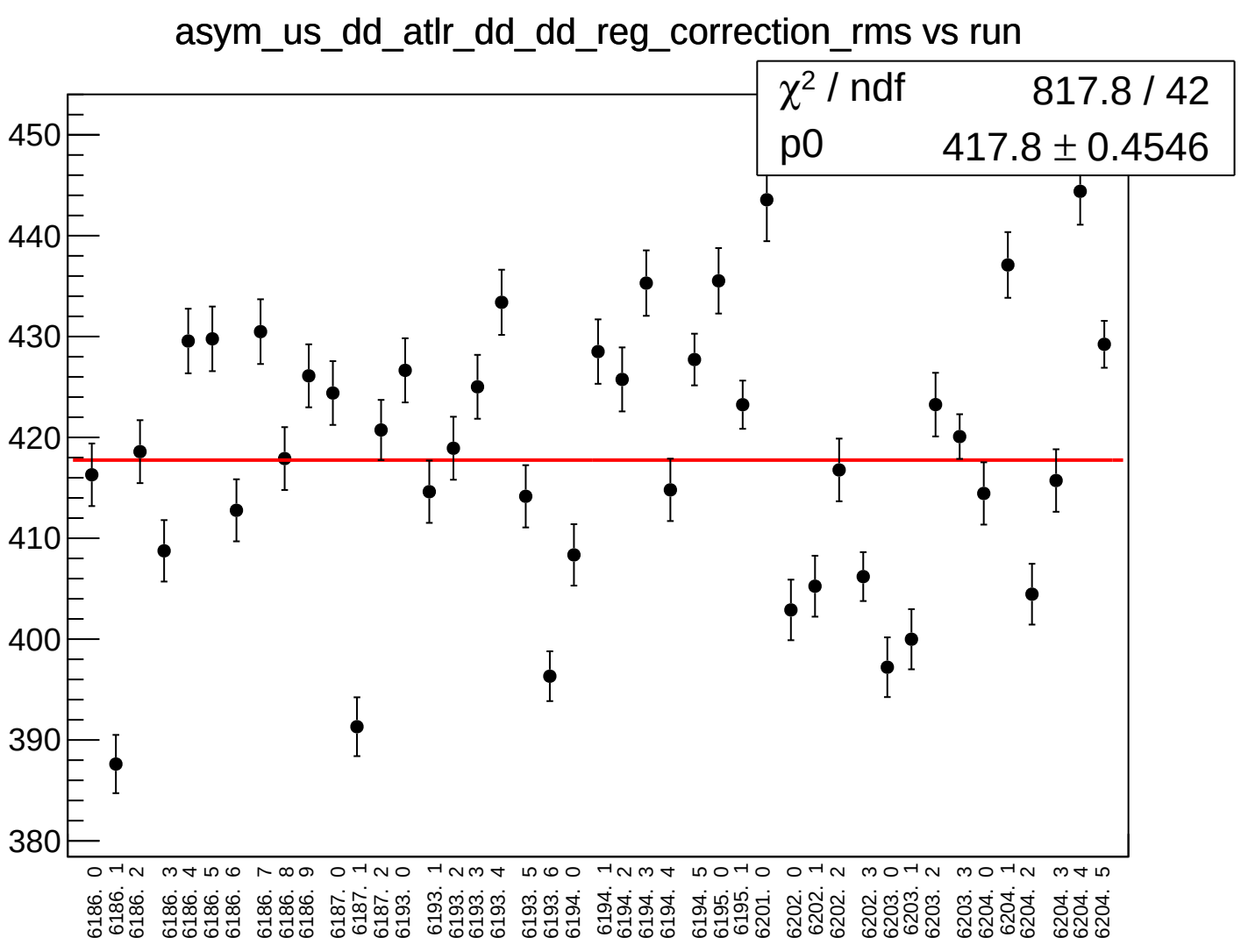

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.045e+05 / 42
p0 5.735e−11 ± 8.638e−14
0.5
0.4
0.3
0.2
0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

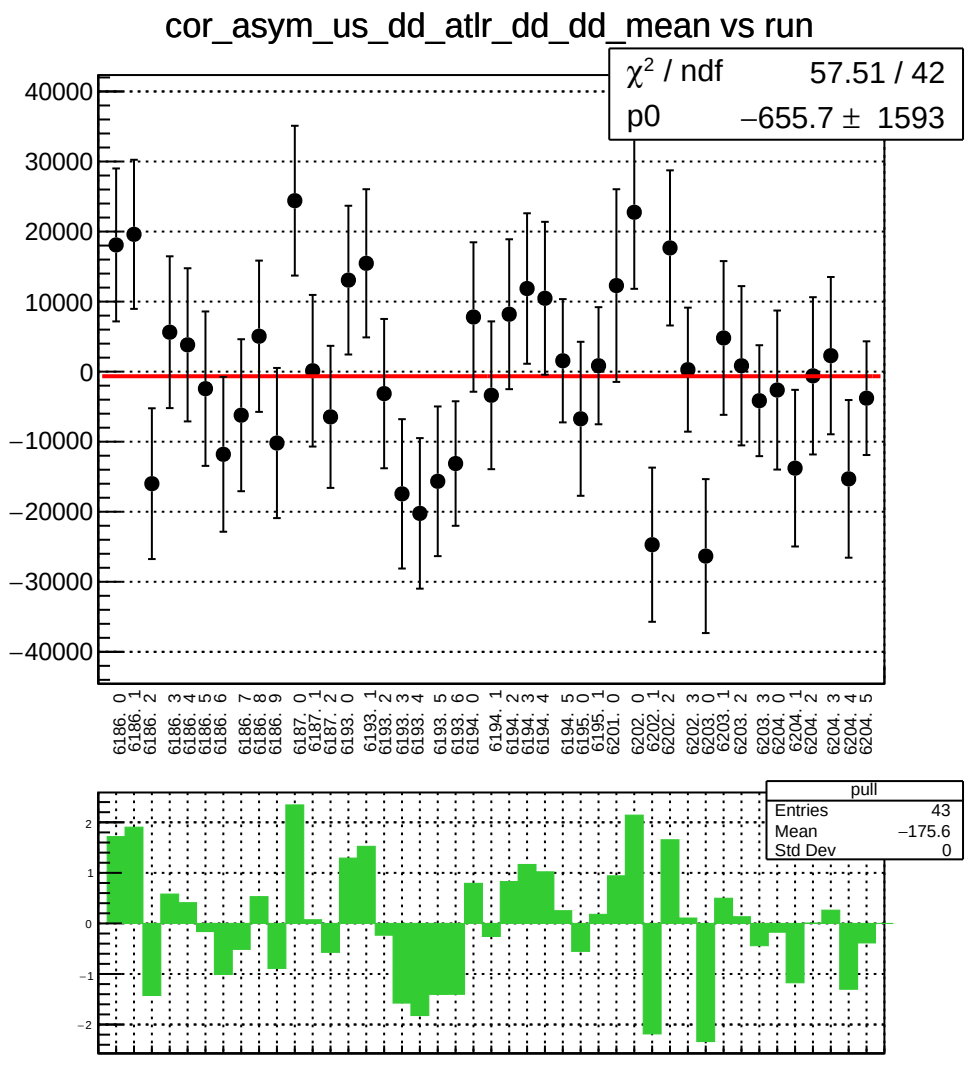

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 57.51 / 42
p0 −655.9 ± 1593
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −175.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01254
Std Dev 1.156
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

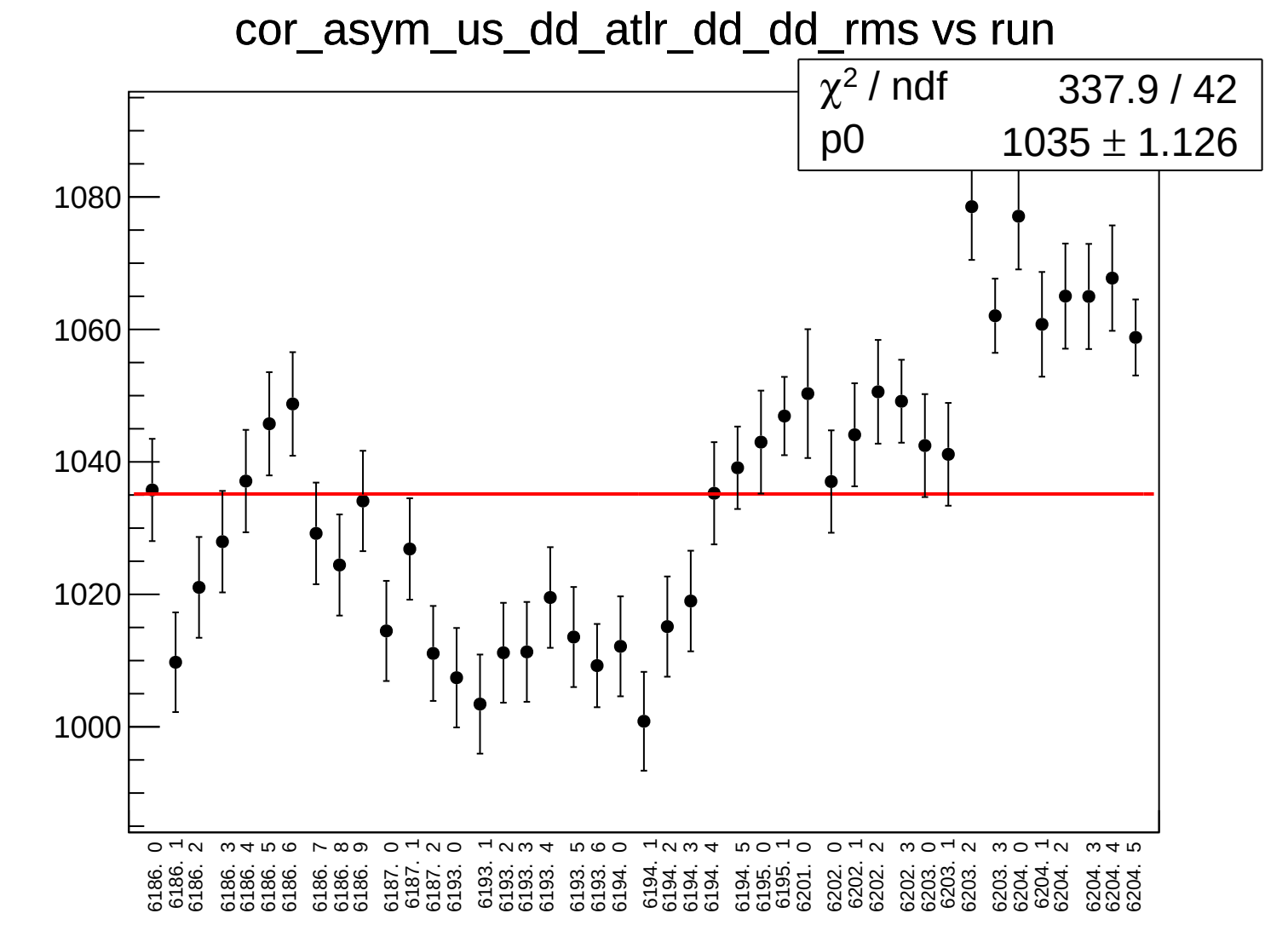

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 337.9 / 42
p0 1035 ± 1.126
1080
1060
1040
1020
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

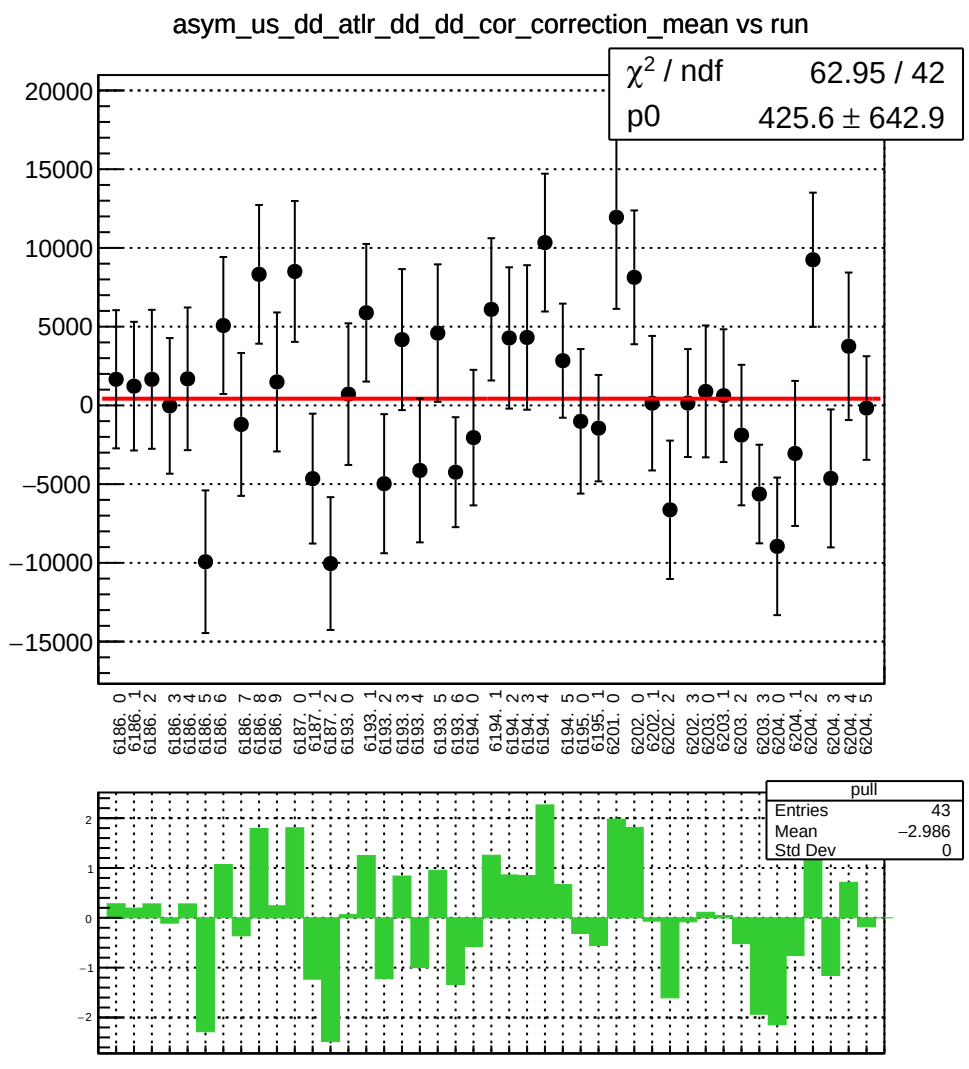

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 62.98 / 42
p0 426.6 ± 642.9
20000
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −2.993
Std Dev 0
2
1
0
−1
−2

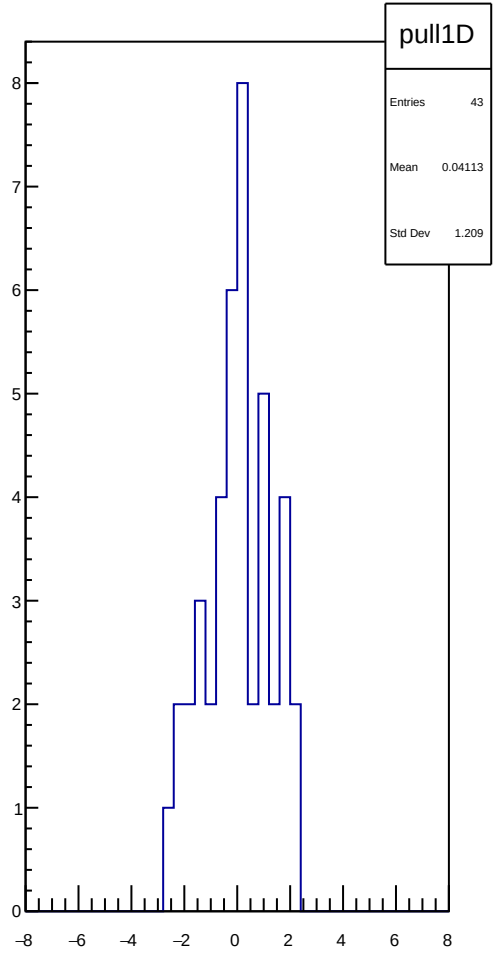

pull1D
Entries 43
Mean 0.04103
Std Dev 1.209
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

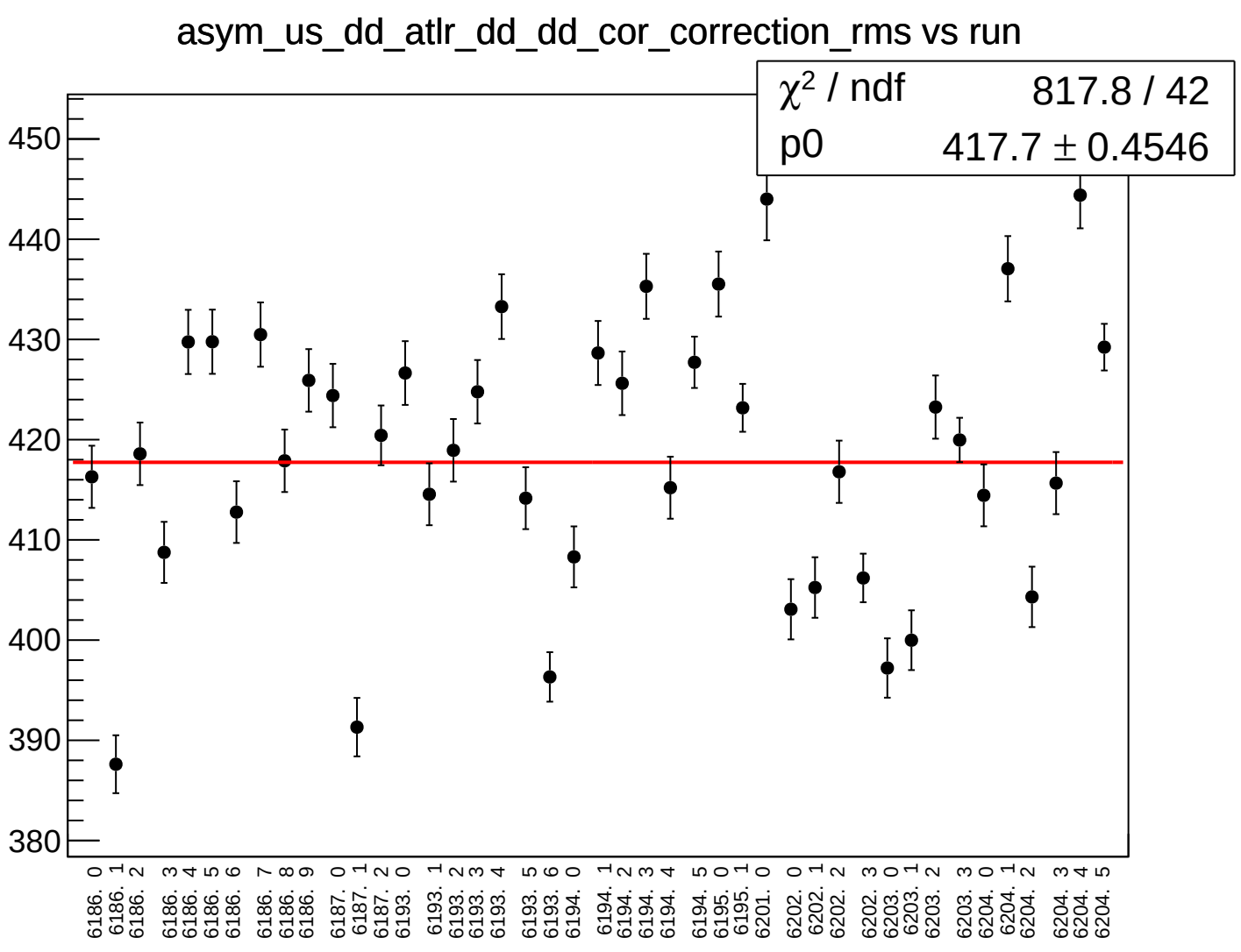

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 817.8 / 42
p0 417.8 ± 0.4546
450
440
430
420
410
400
390
380
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

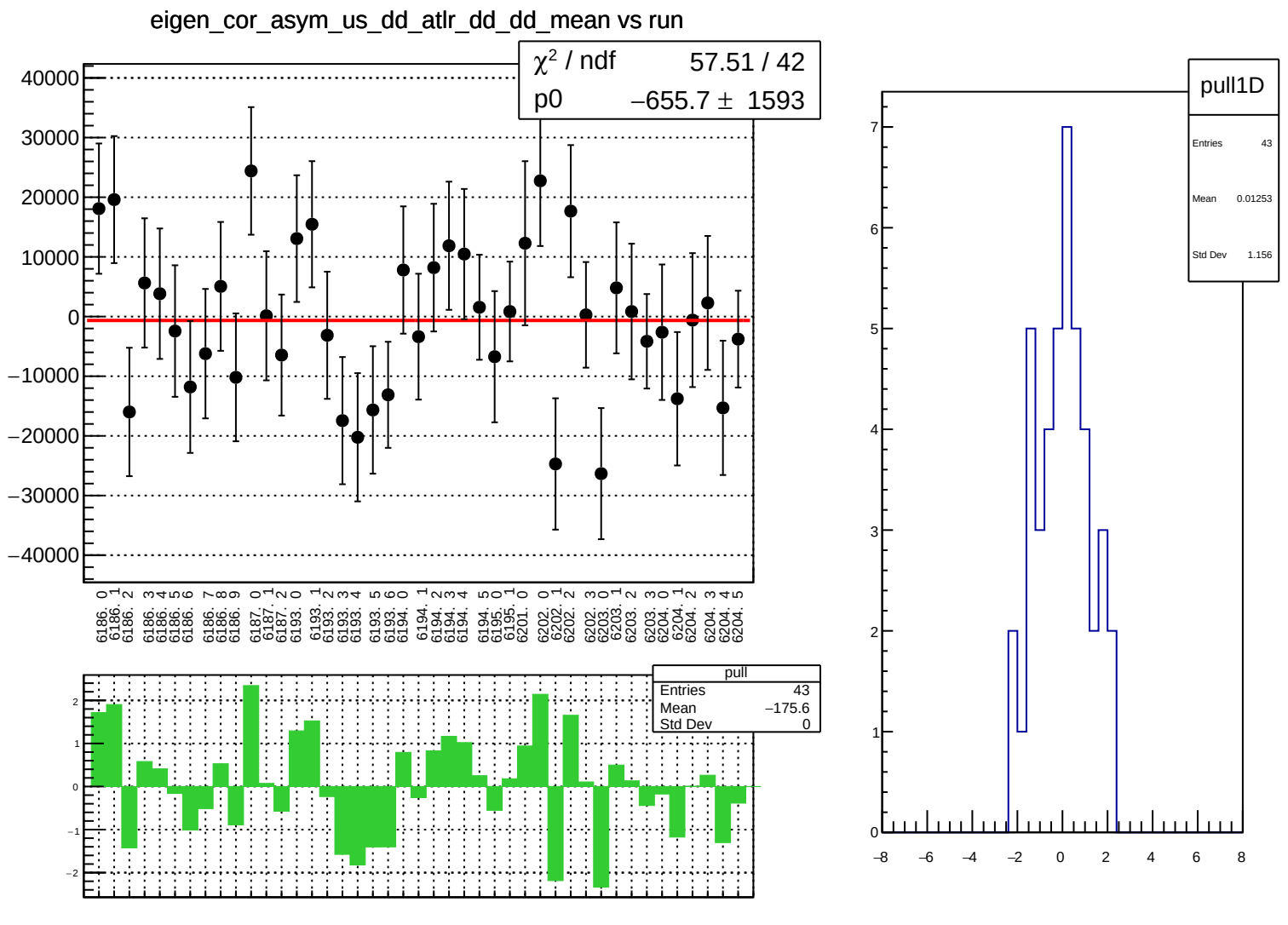

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 57.51 / 42
p0 −655.7 ± 1593
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −175.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01253
Std Dev 1.156
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

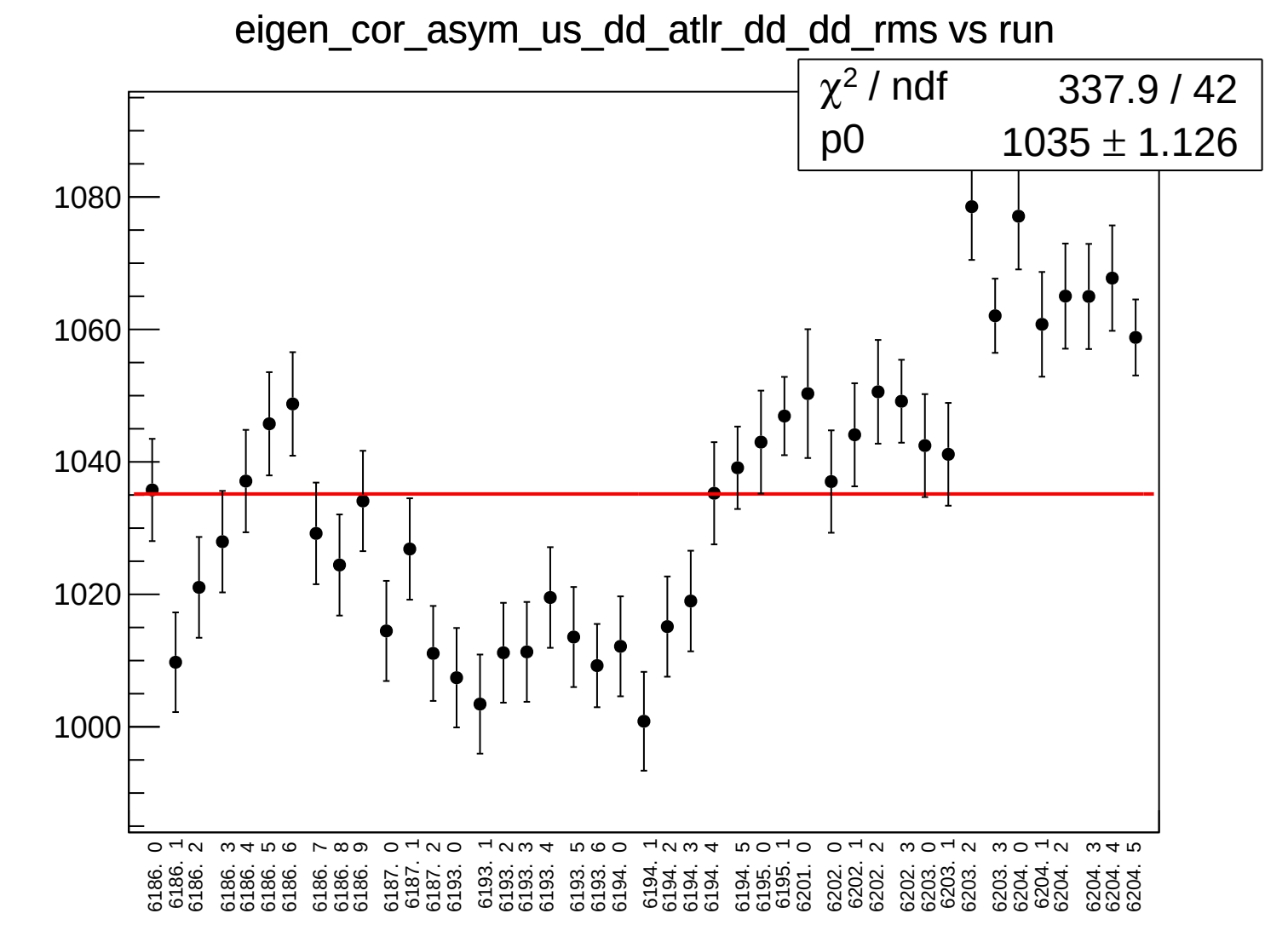

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 337.9 / 42
p0 1035 ± 1.126
1080
1060
1040
1020
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

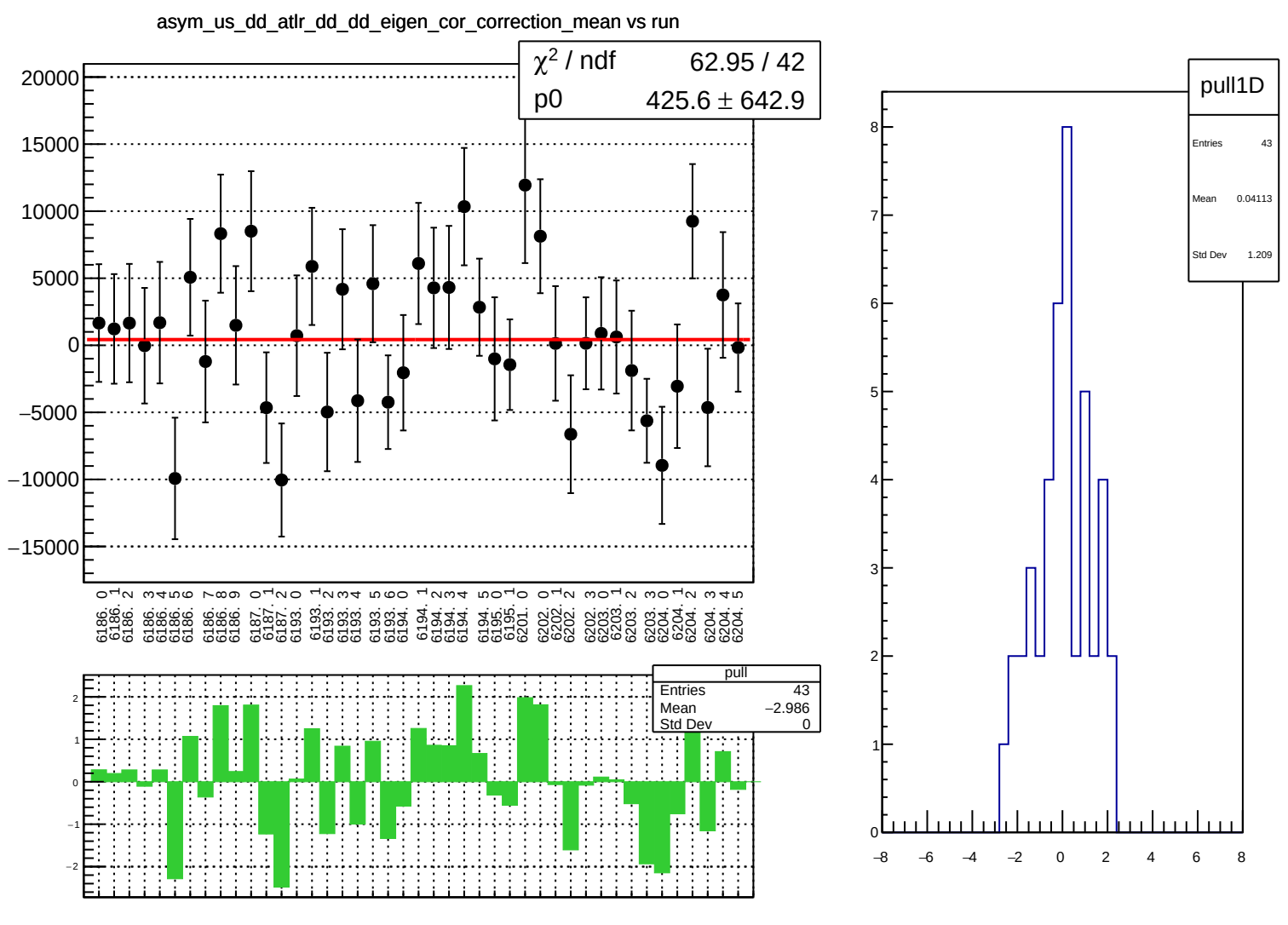

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 62.95 / 42
p0 425.6 ± 642.9
20000
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −2.986
Std Dev 0
2
1
0
−1
−2

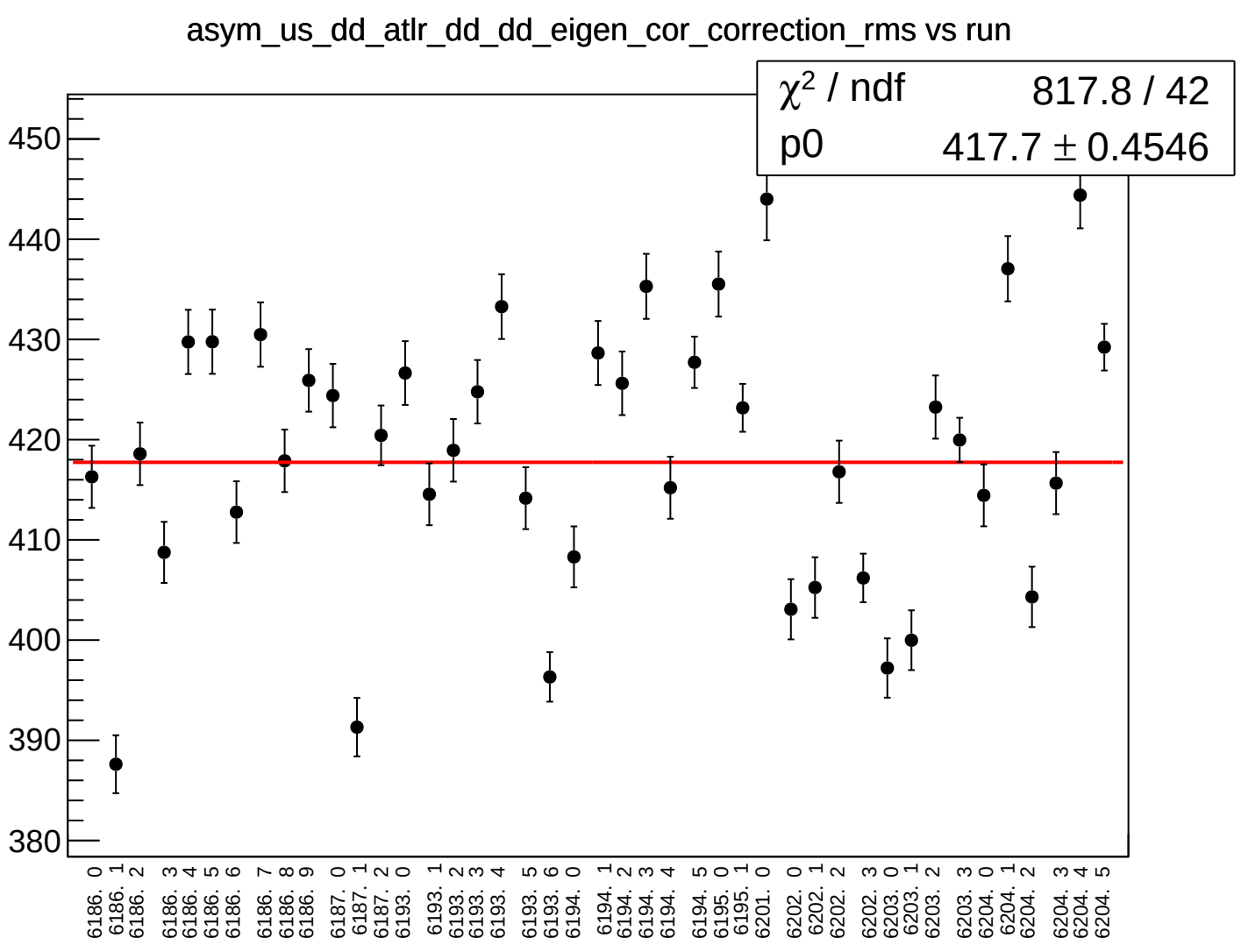

pull1D
Entries 43
Mean 0.04113
Std Dev 1.209
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

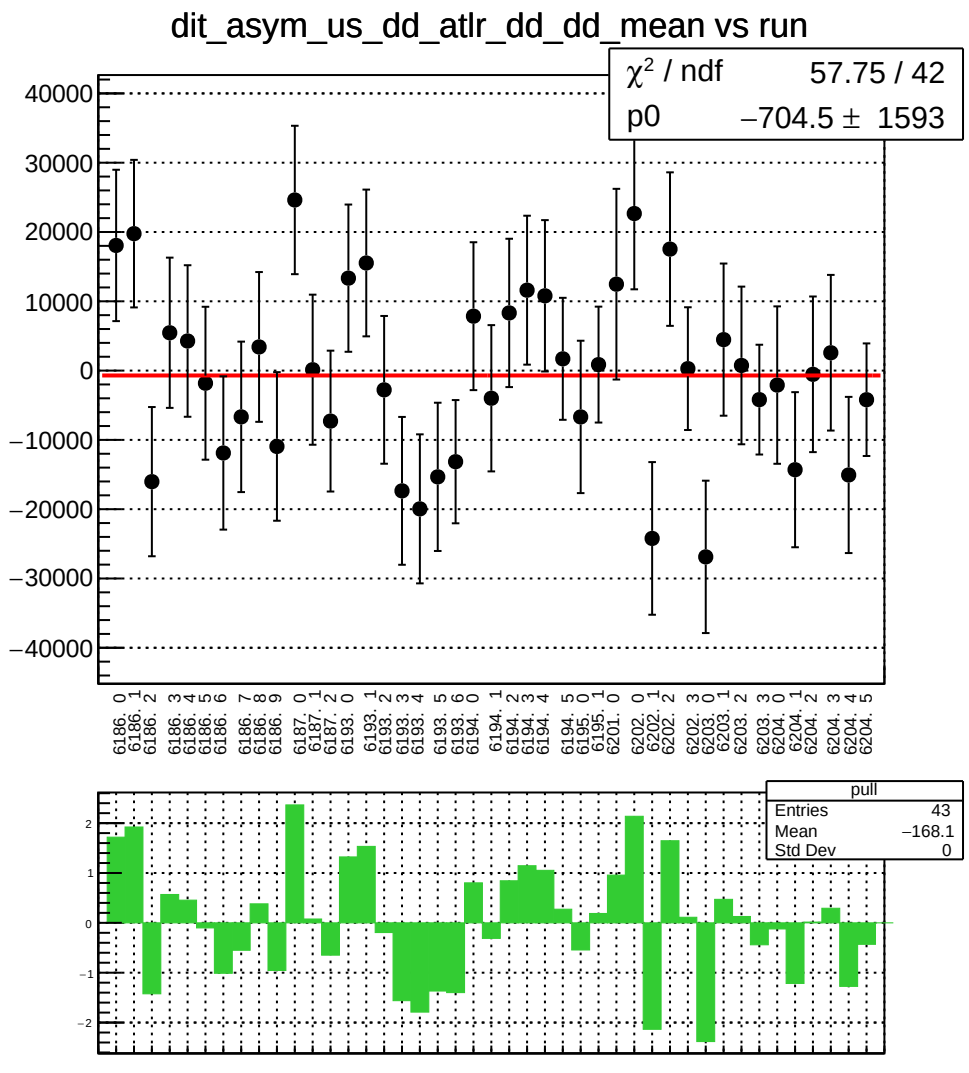

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 817.8 / 42
p0 417.7 ± 0.4546
450
440
430
420
410
400
390
380
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

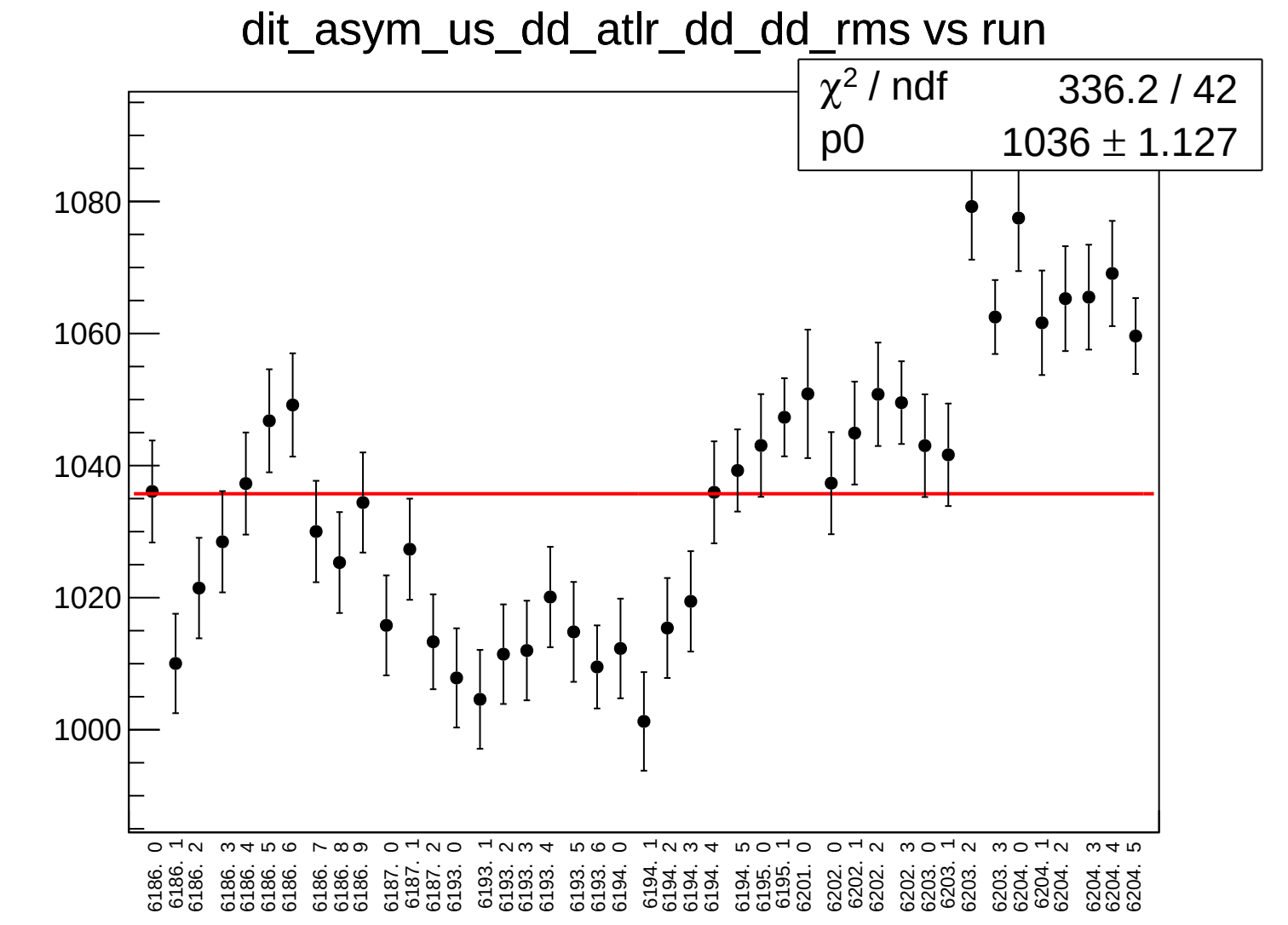

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 57.51 / 42
p0 −655.7 ± 1593
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −175.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01253
Std Dev 1.156
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

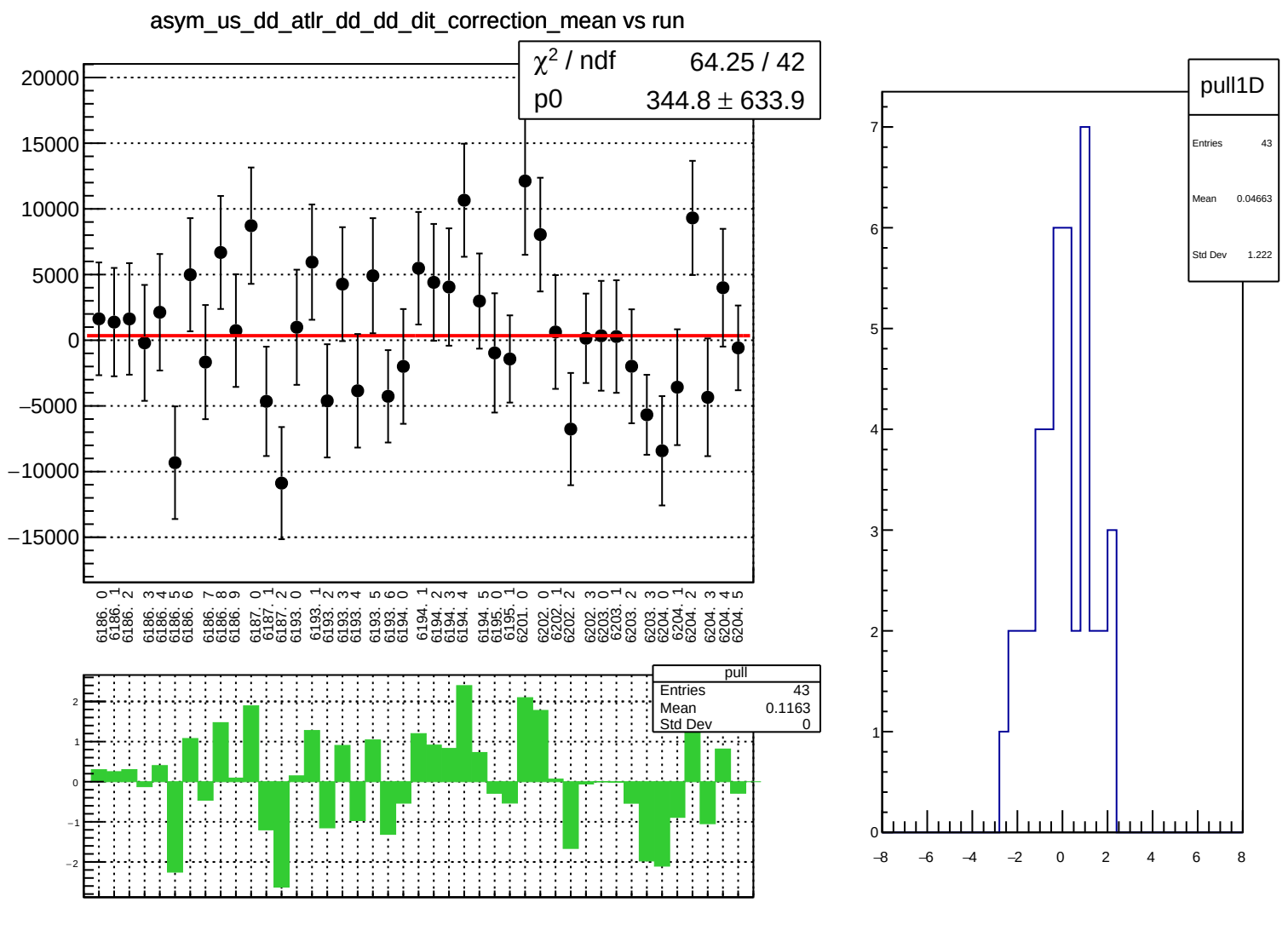

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 337.9 / 42
p0 1035 ± 1.126
1080
1060
1040
1020
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

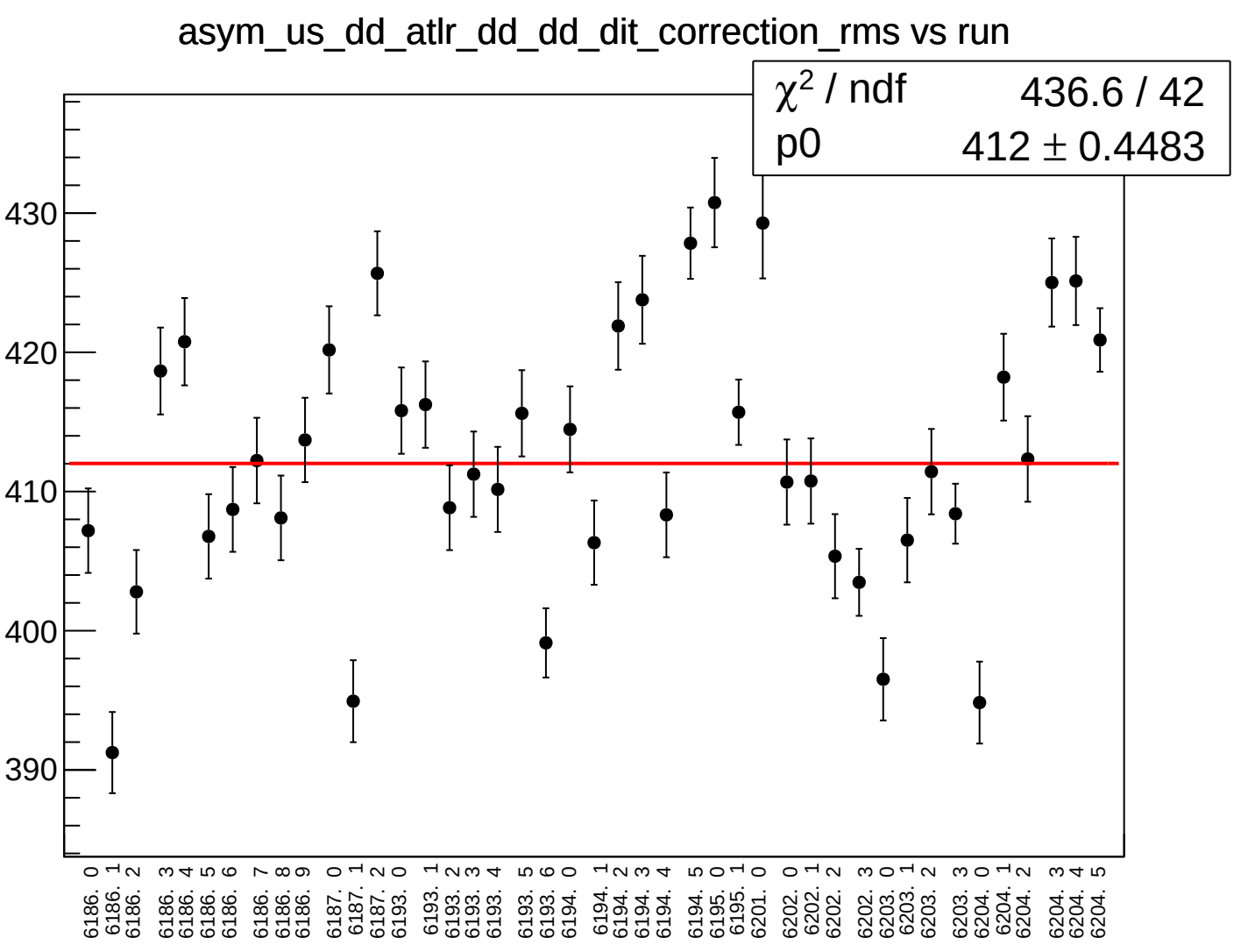

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 62.95 / 42
p0 425.6 ± 642.9
20000
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −2.986
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.04113
Std Dev 1.209
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 817.8 / 42
p0 417.7 ± 0.4546
450
440
430
420
410
400
390
380
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 57.75 / 42
p0 −704.5 ± 1593
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −168.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01288
Std Dev 1.159
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 336.2 / 42
p0 1036 ± 1.127
1080
1060
1040
1020
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 64.25 / 42
p0 344.8 ± 633.9
20000
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 0.1163
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.04663
Std Dev 1.222
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 436.6 / 42
p0 412 ± 0.4483
430
420
410
400
390
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
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6202. 0
6202. 1
6202. 2
6202. 3
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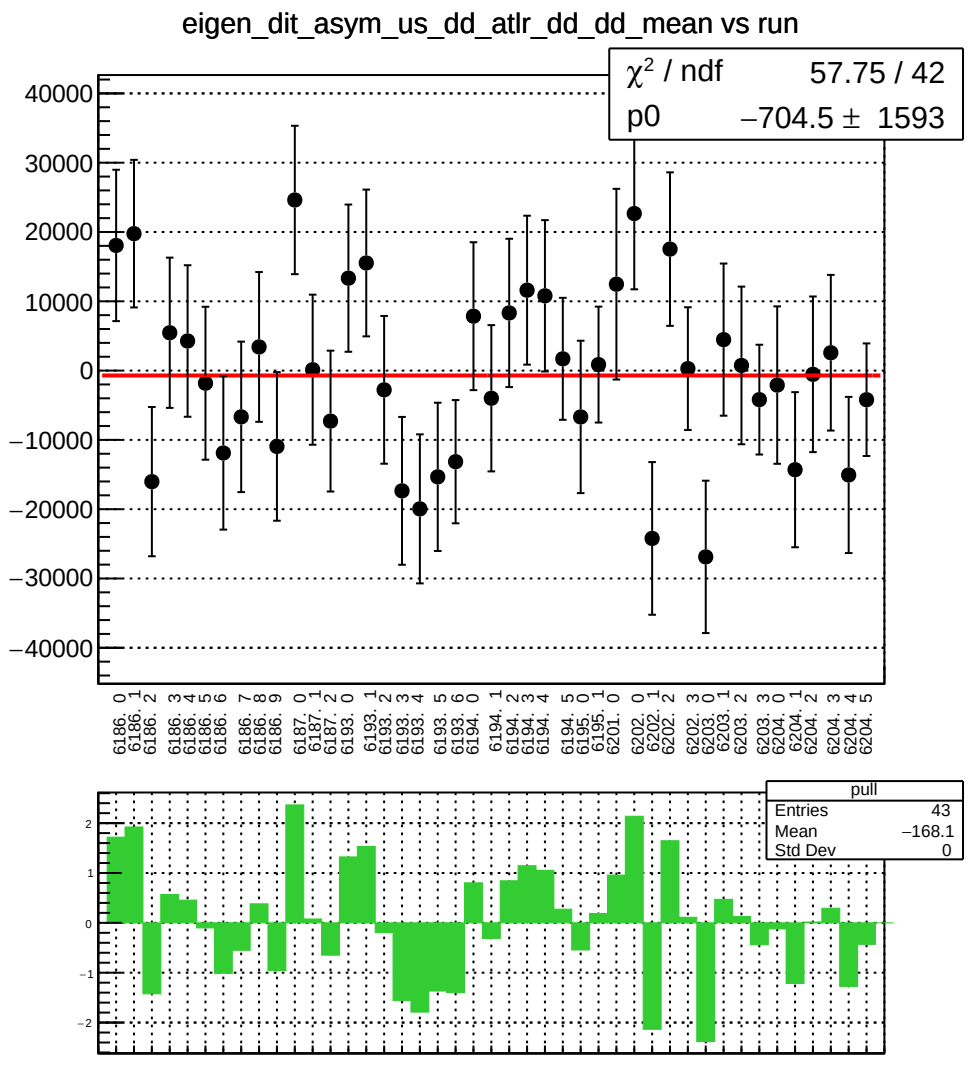
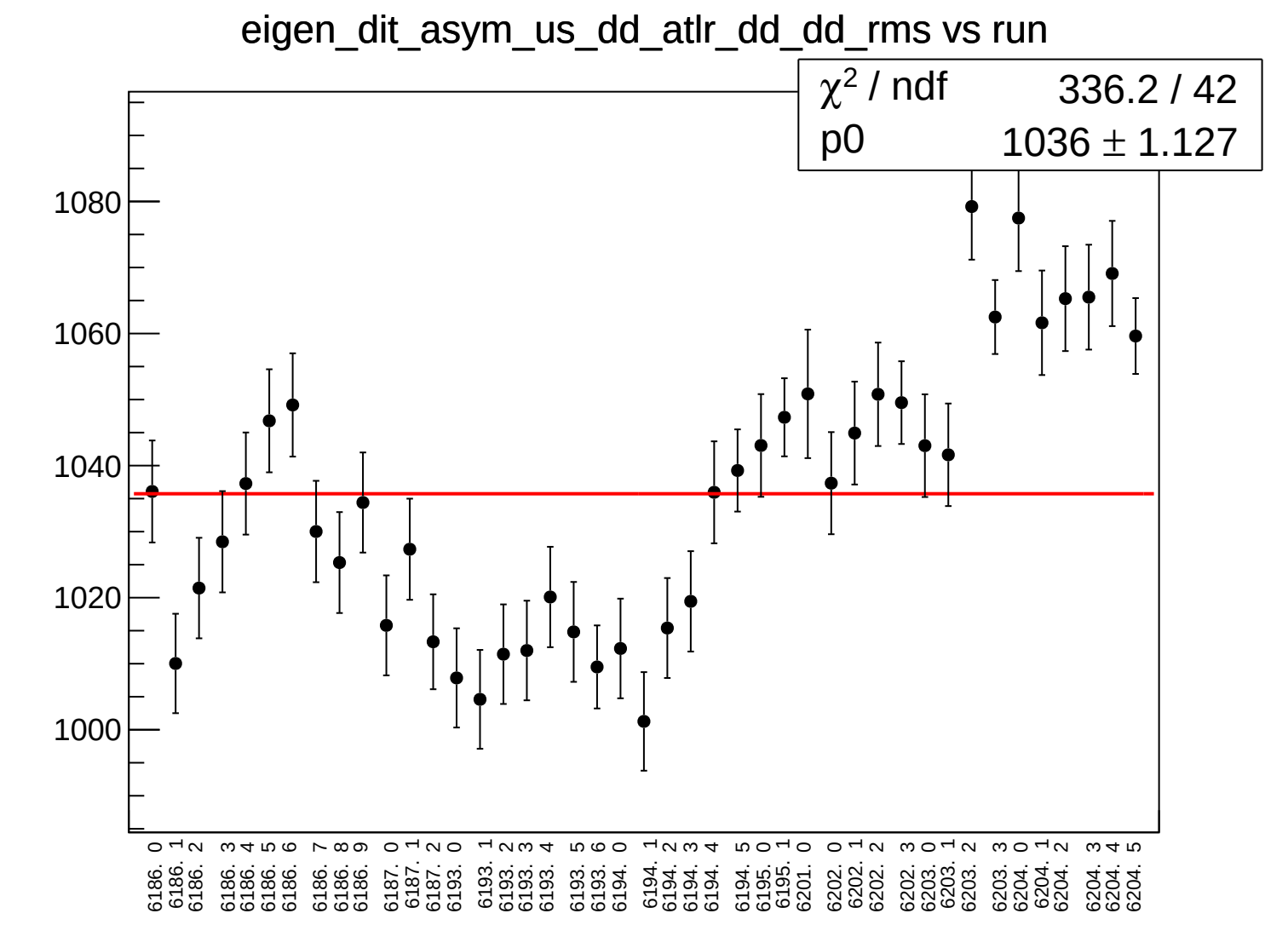
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 57.75 / 42
p0 −704.5 ± 1593
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −168.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01288
Std Dev 1.159
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 336.2 / 42
p0 1036 ± 1.127
1080
1060
1040
1020
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
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6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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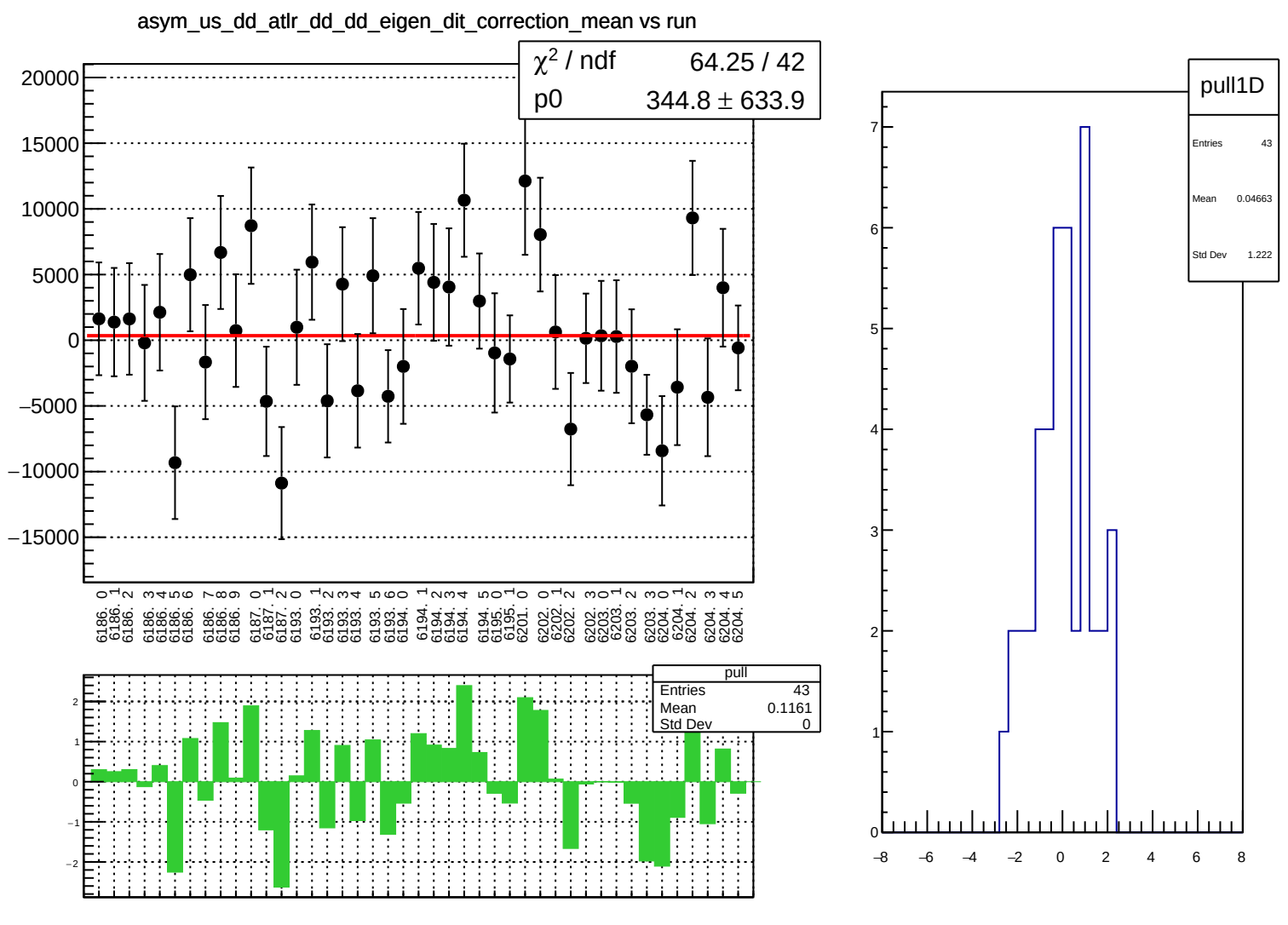
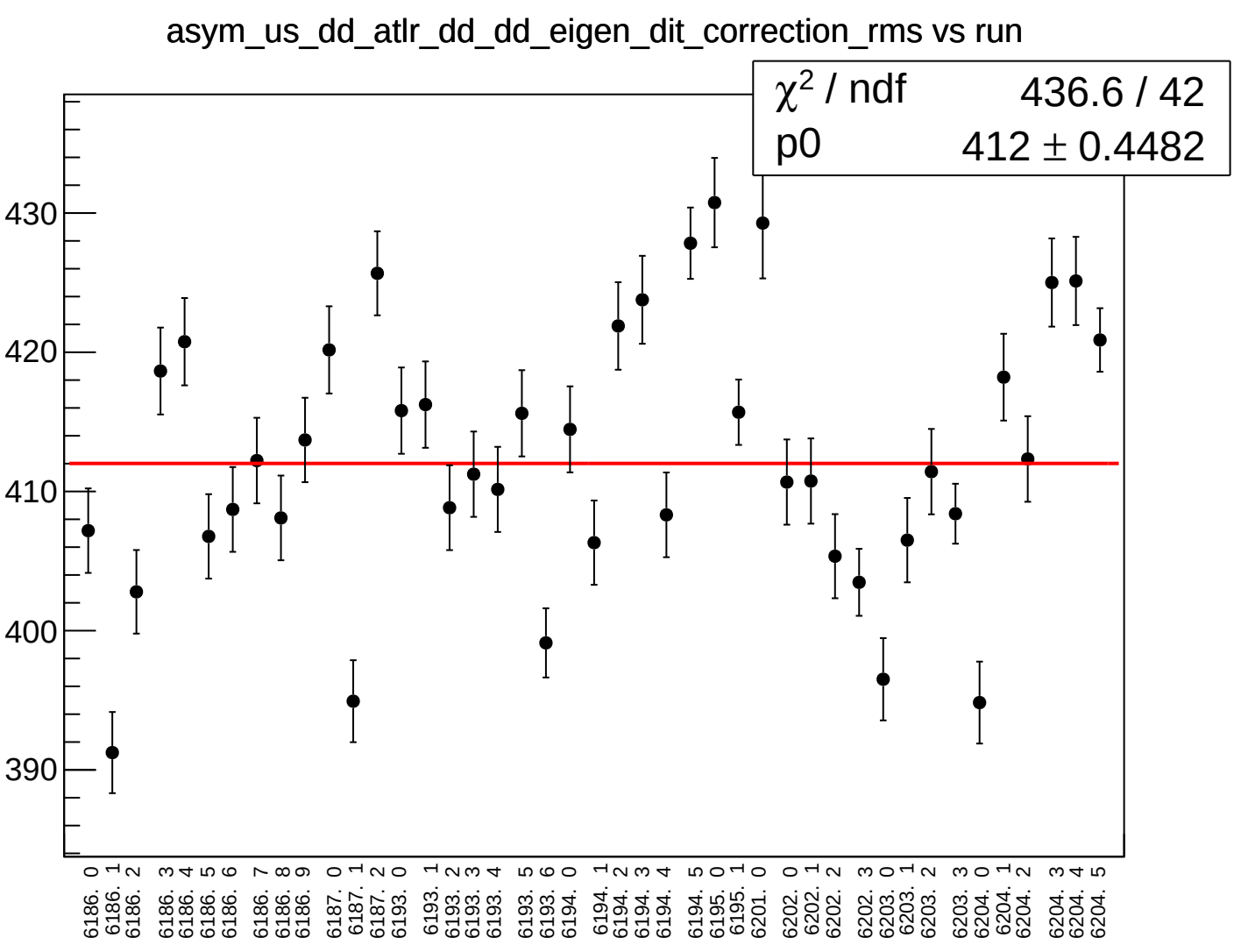
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 64.25 / 42
p0 344.8 ± 633.9
20000
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 0.1161
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.04663
Std Dev 1.222
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 436.6 / 42
p0 412 ± 0.4482
430
420
410
400
390
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
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6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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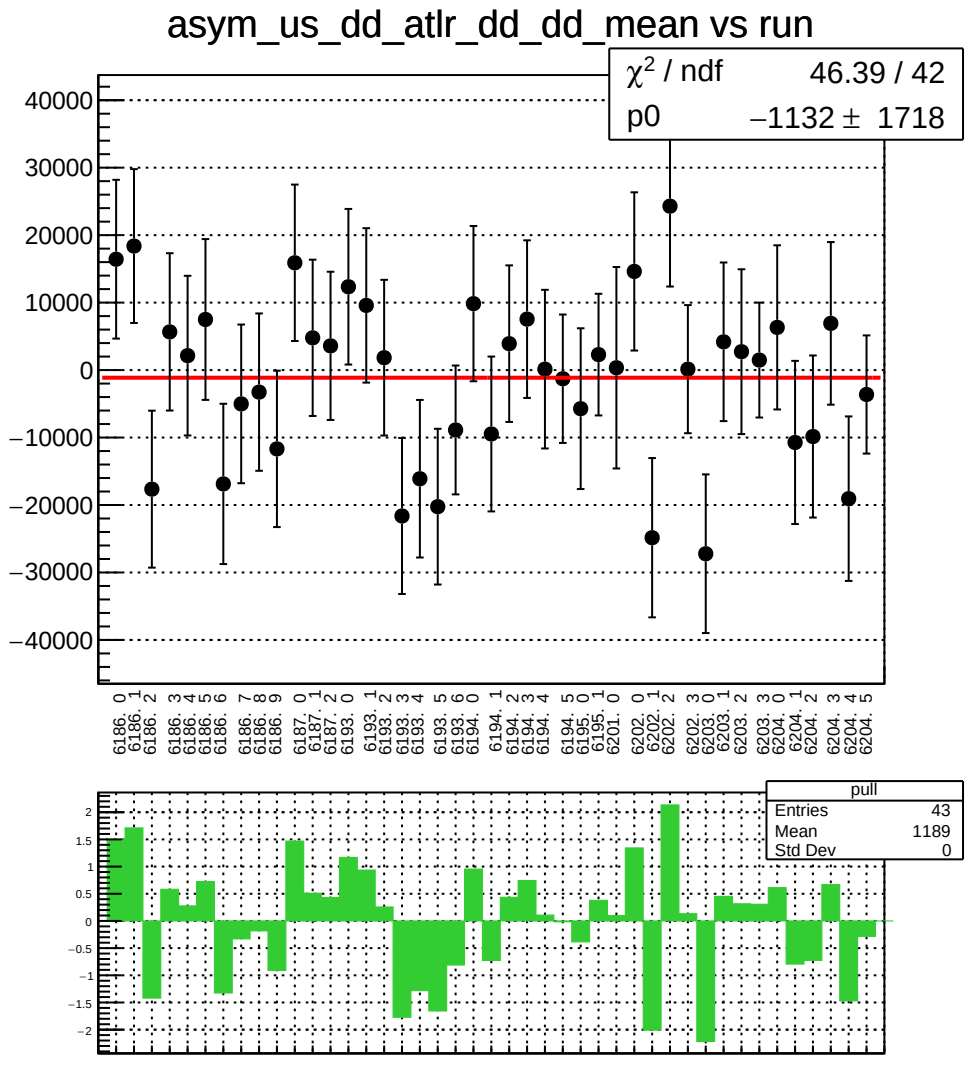
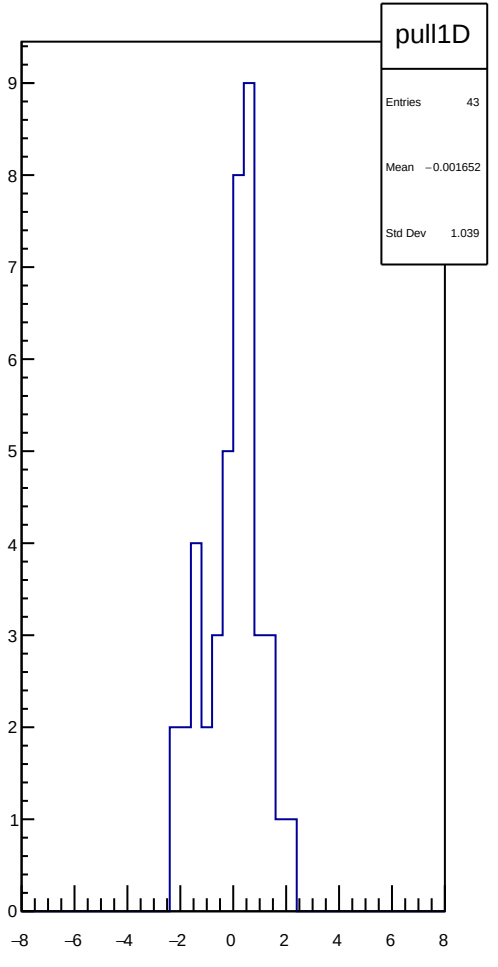
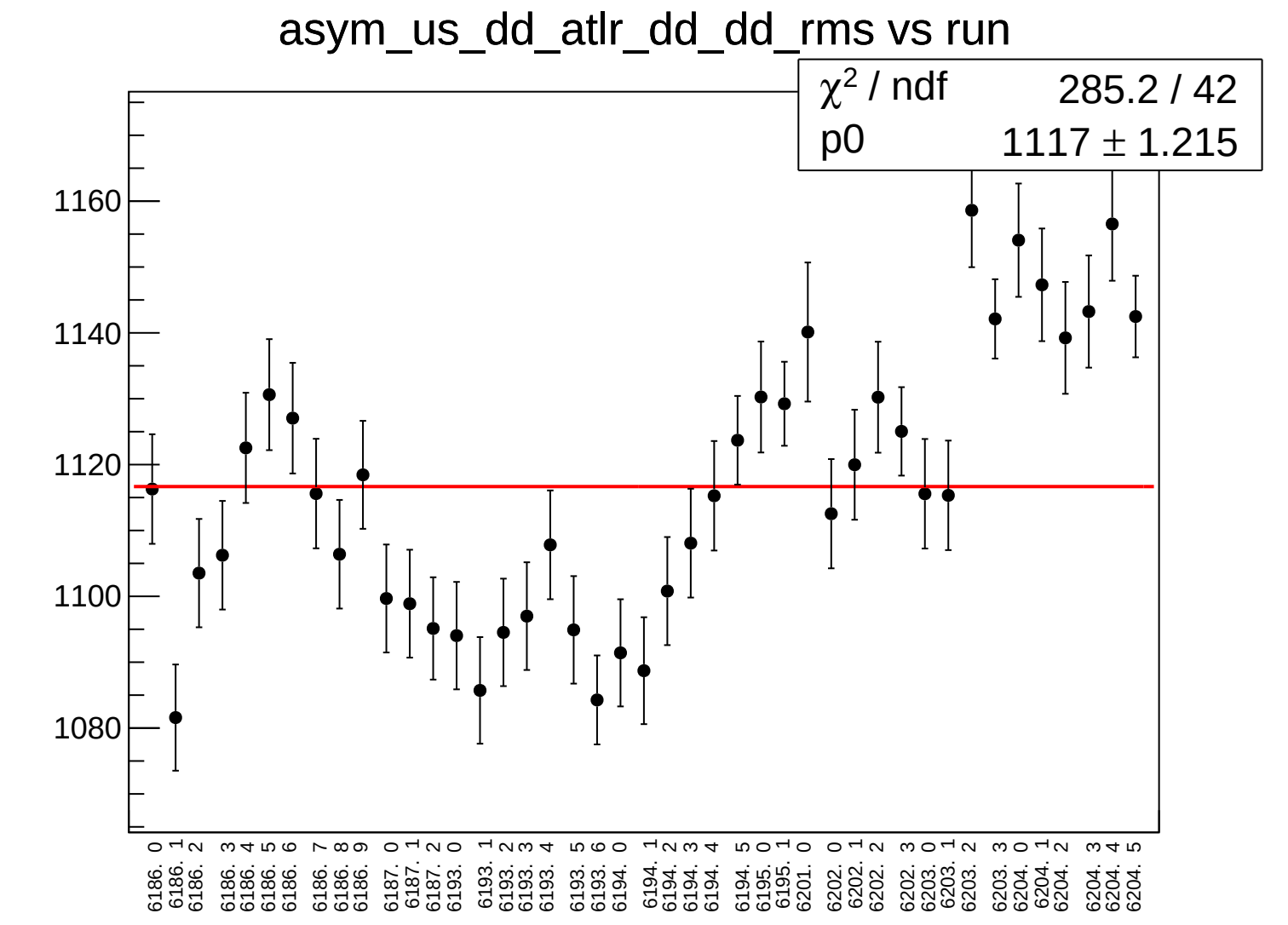
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 46.39 / 42
p0 −1132 ± 1718
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1189
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean −0.001652
Std Dev 1.039
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 285.2 / 42
p0 1117 ± 1.215
1160
1140
1120
1100
1080
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
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6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
6204. 0
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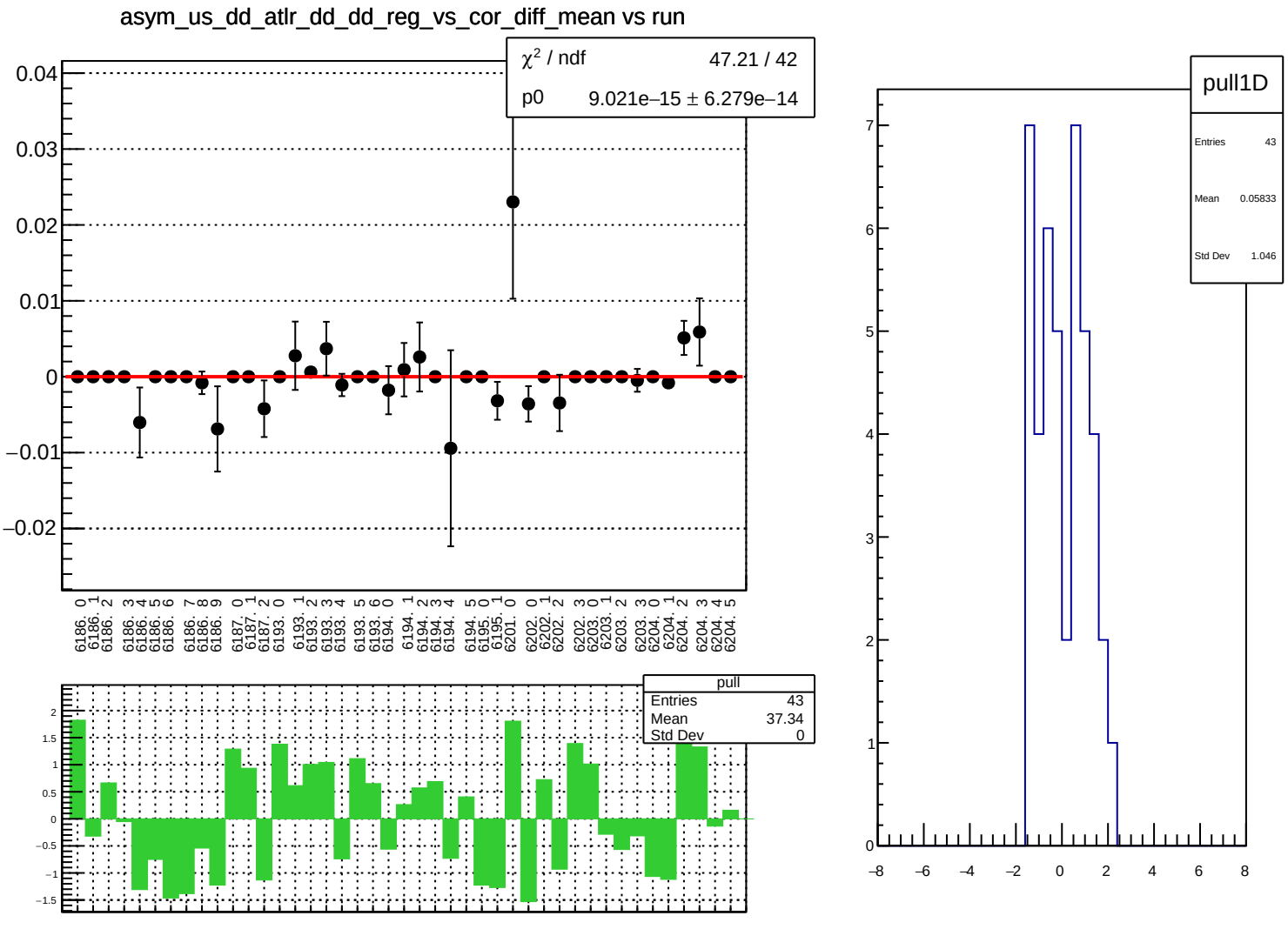
6204. 2
6204. 3
6204. 4
6204. 5


asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 47.21 / 42
p0 9.021e−15 ± 6.279e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
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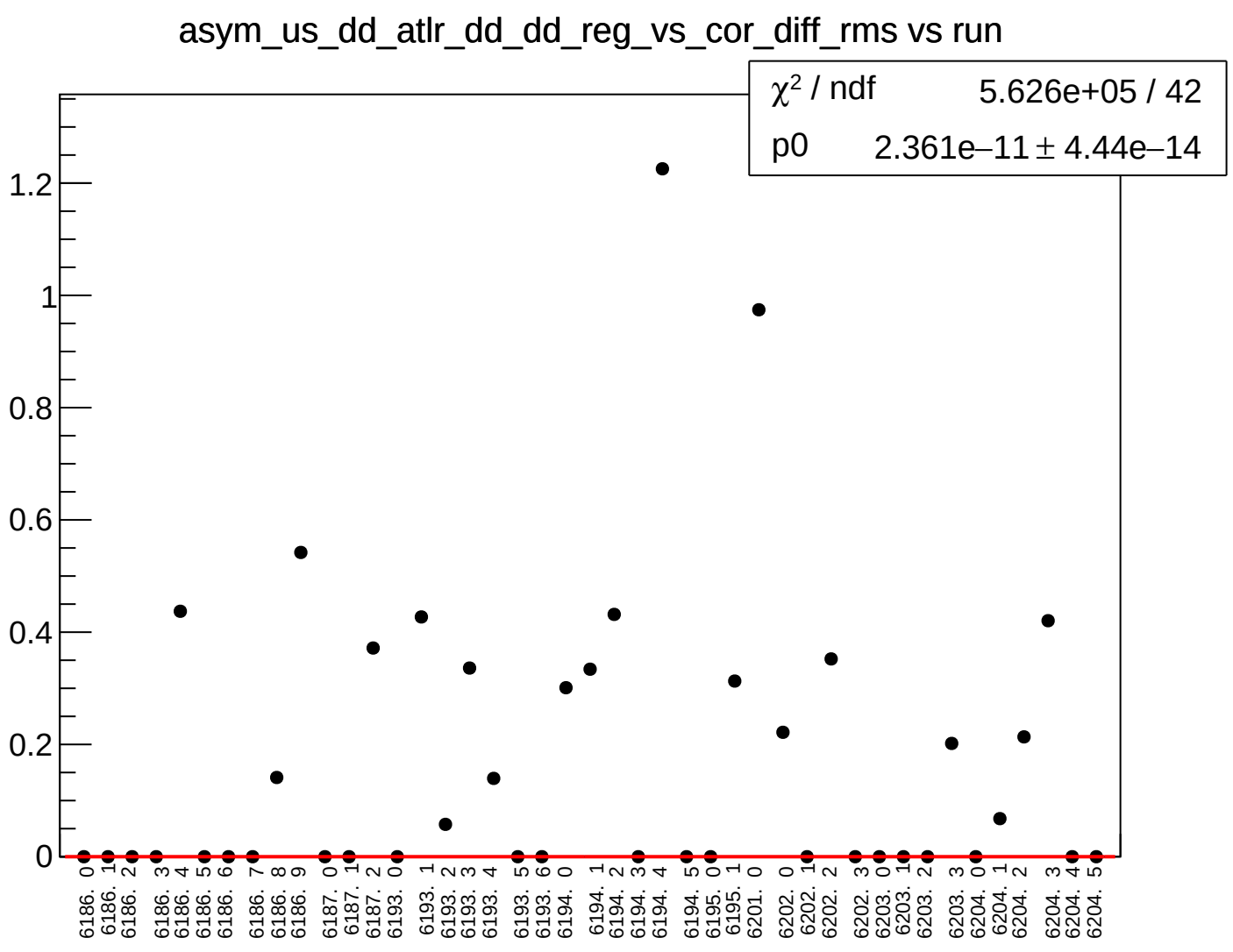
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 37.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.05833
Std Dev 1.046
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.626e+05 / 42
p0 2.361e−11 ± 4.44e−14
1.2
1
0.8
0.6
0.4
0.2
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
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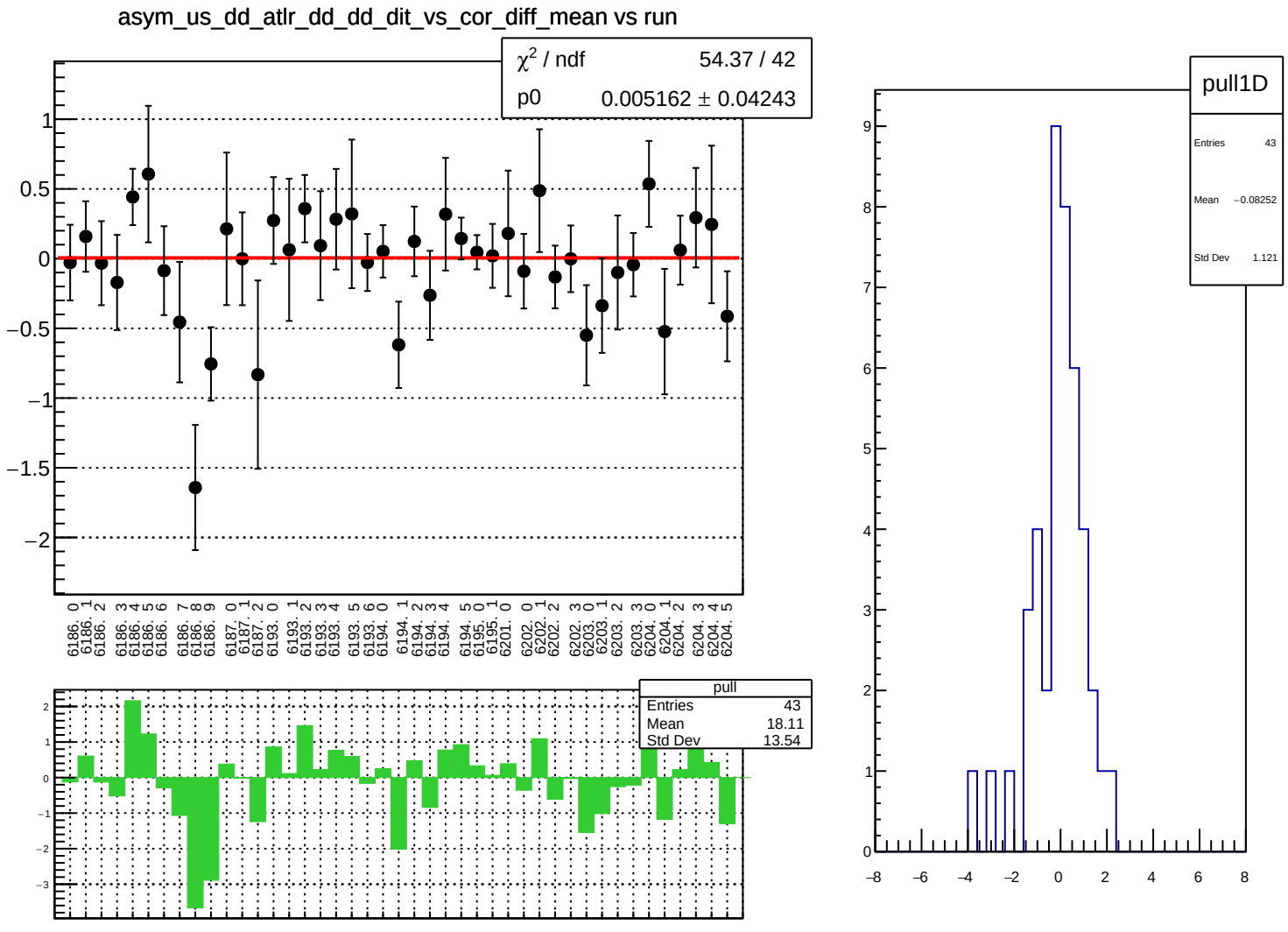
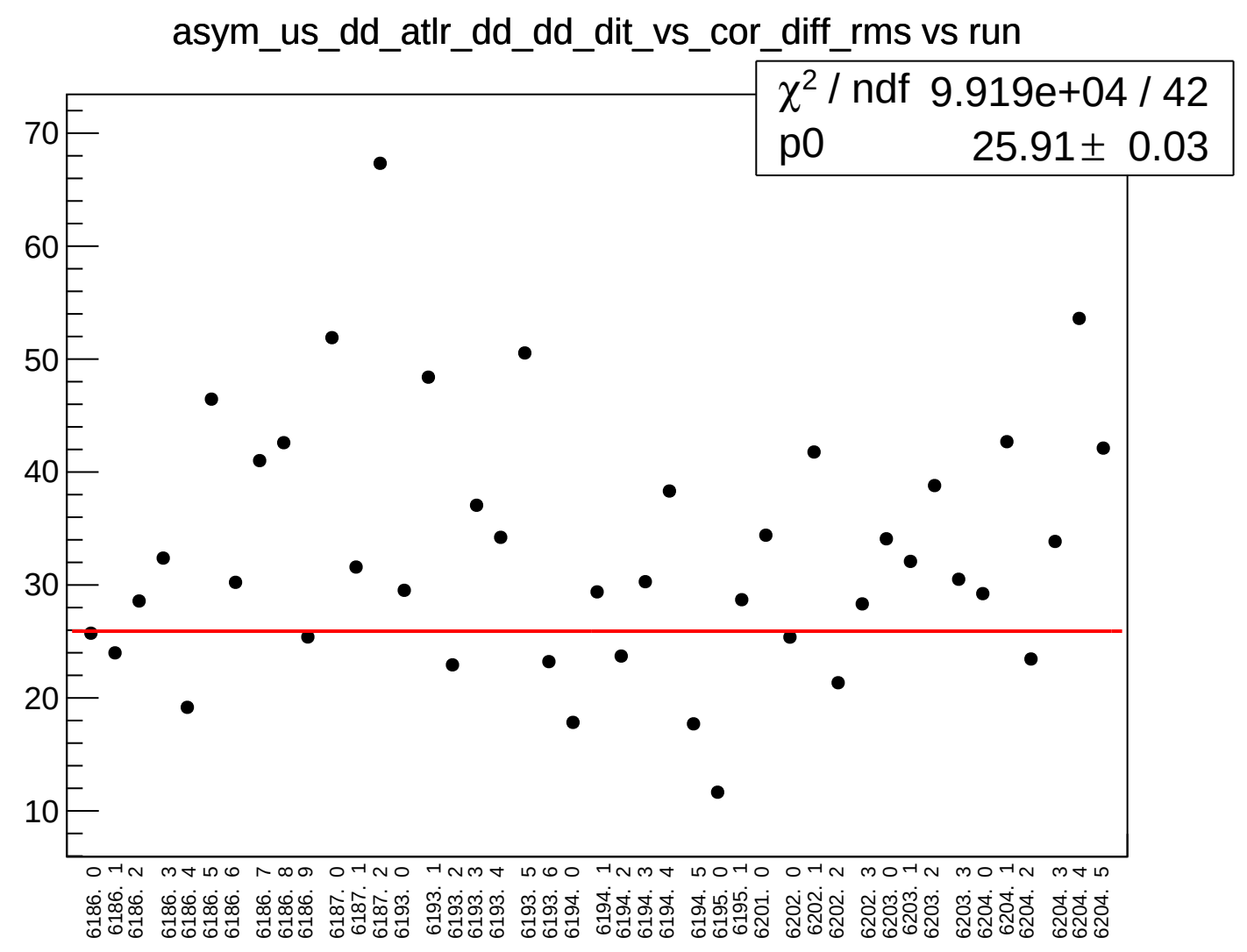
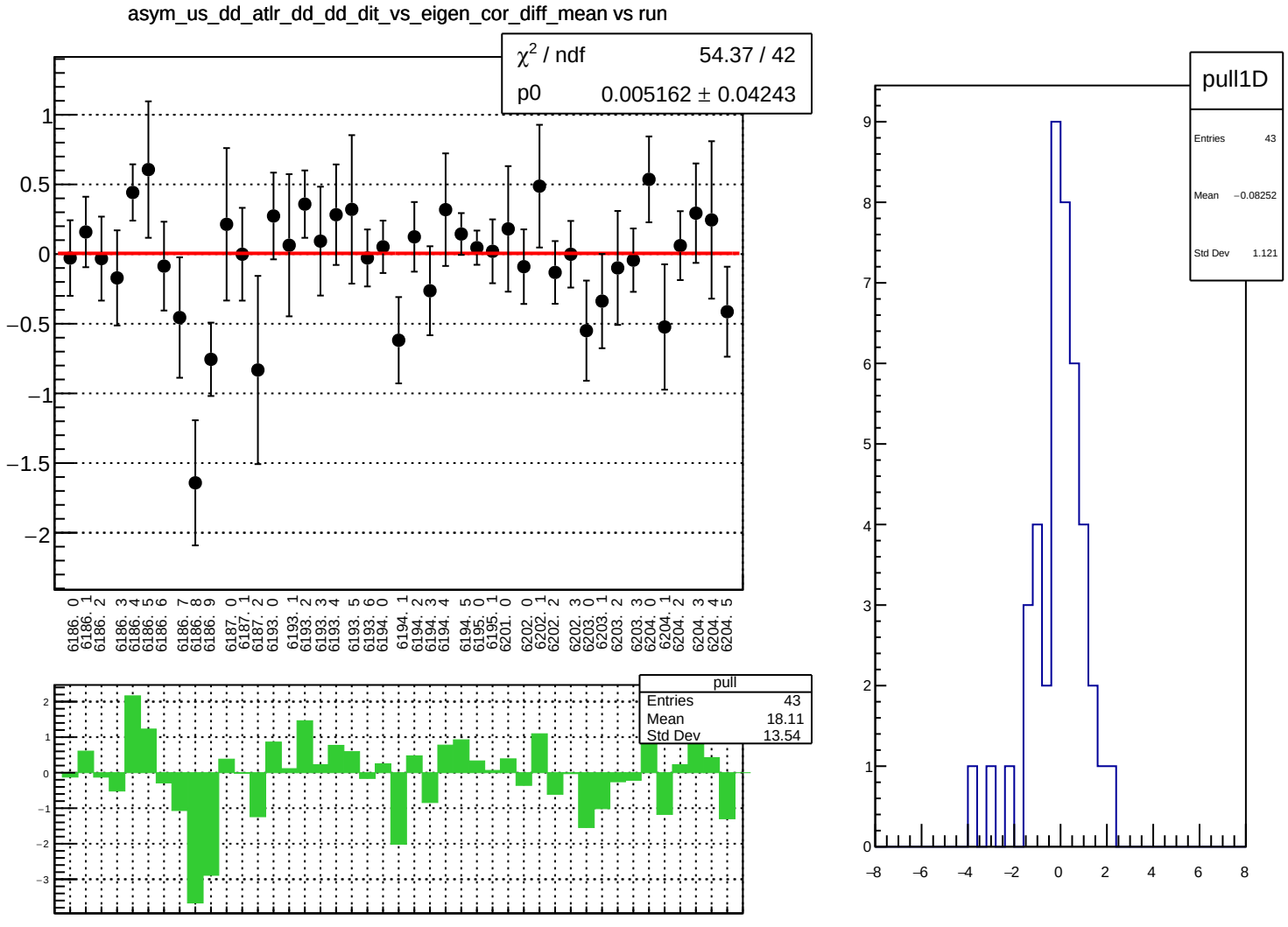
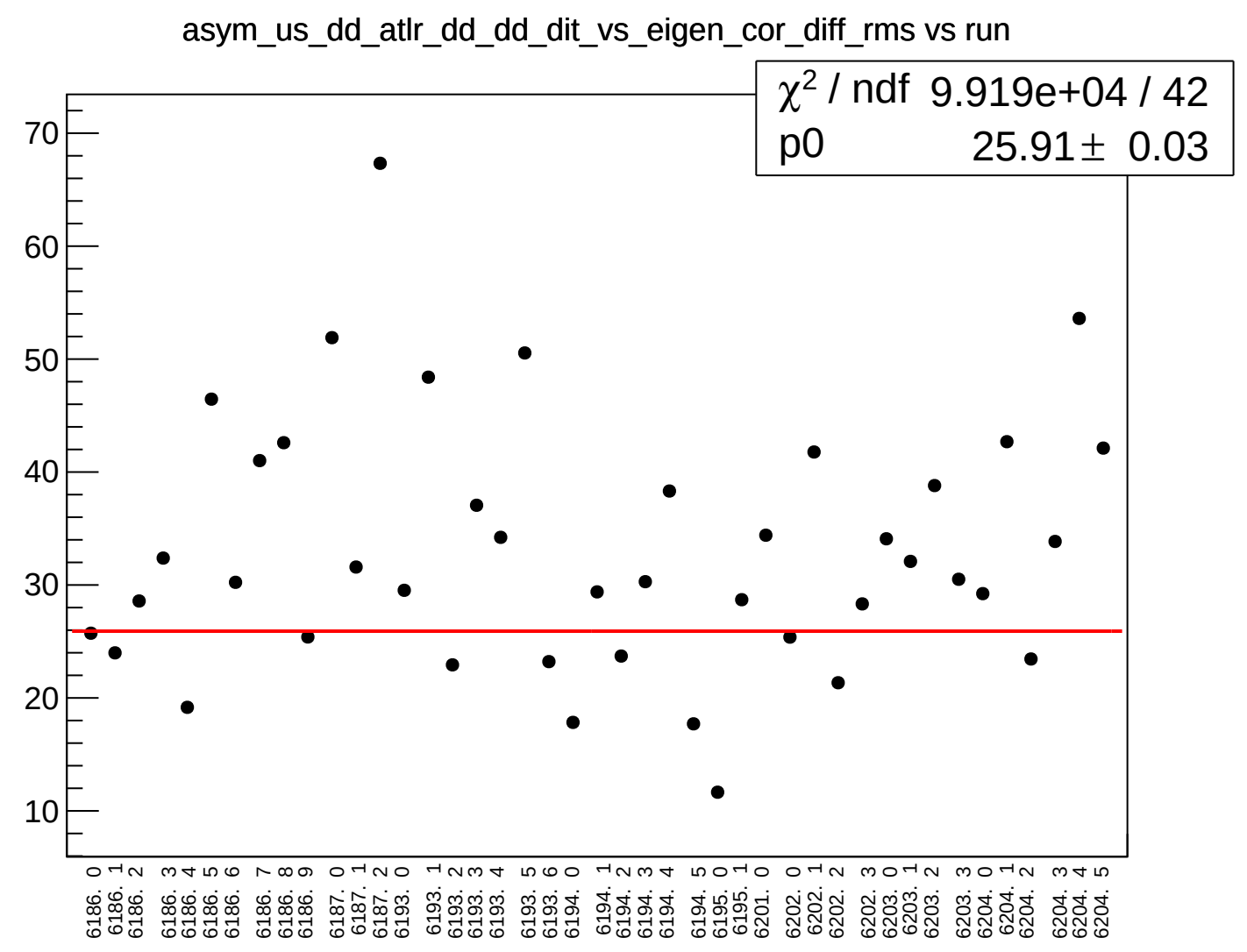
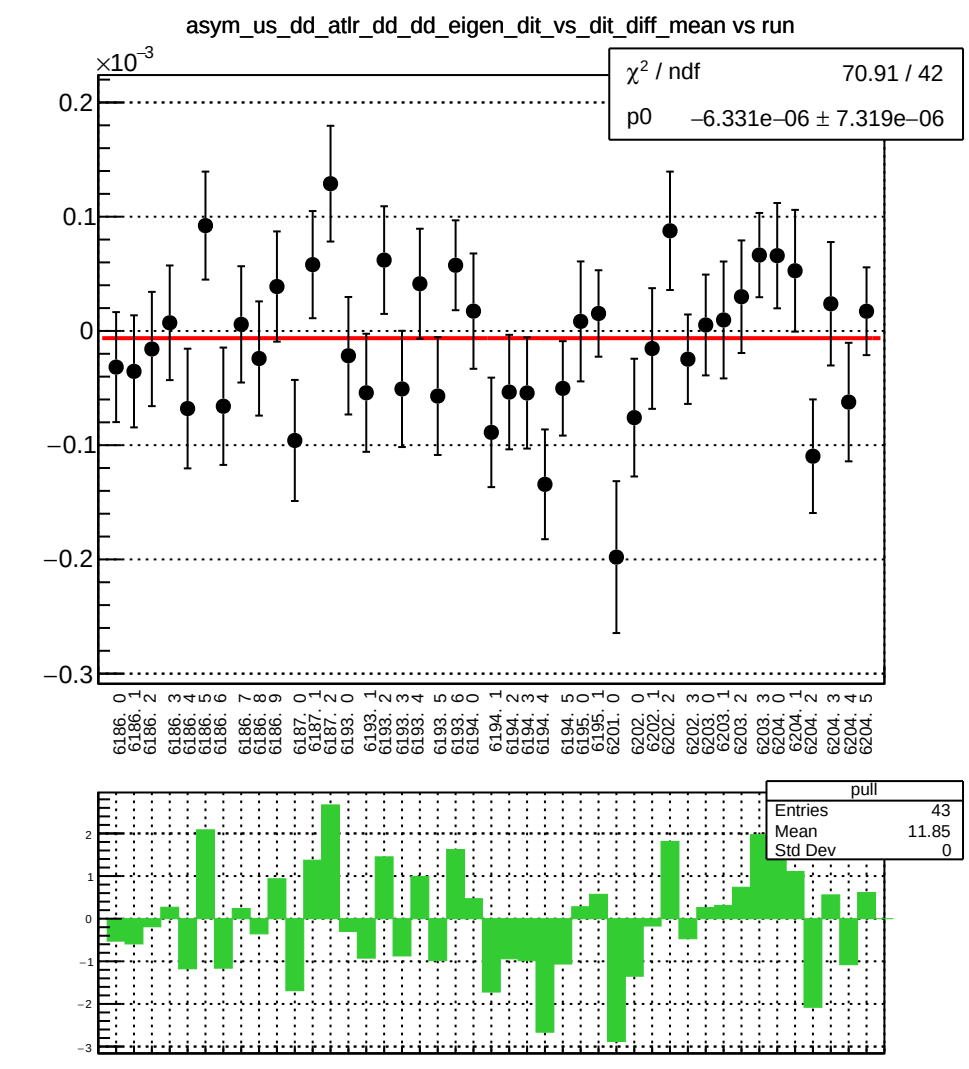
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

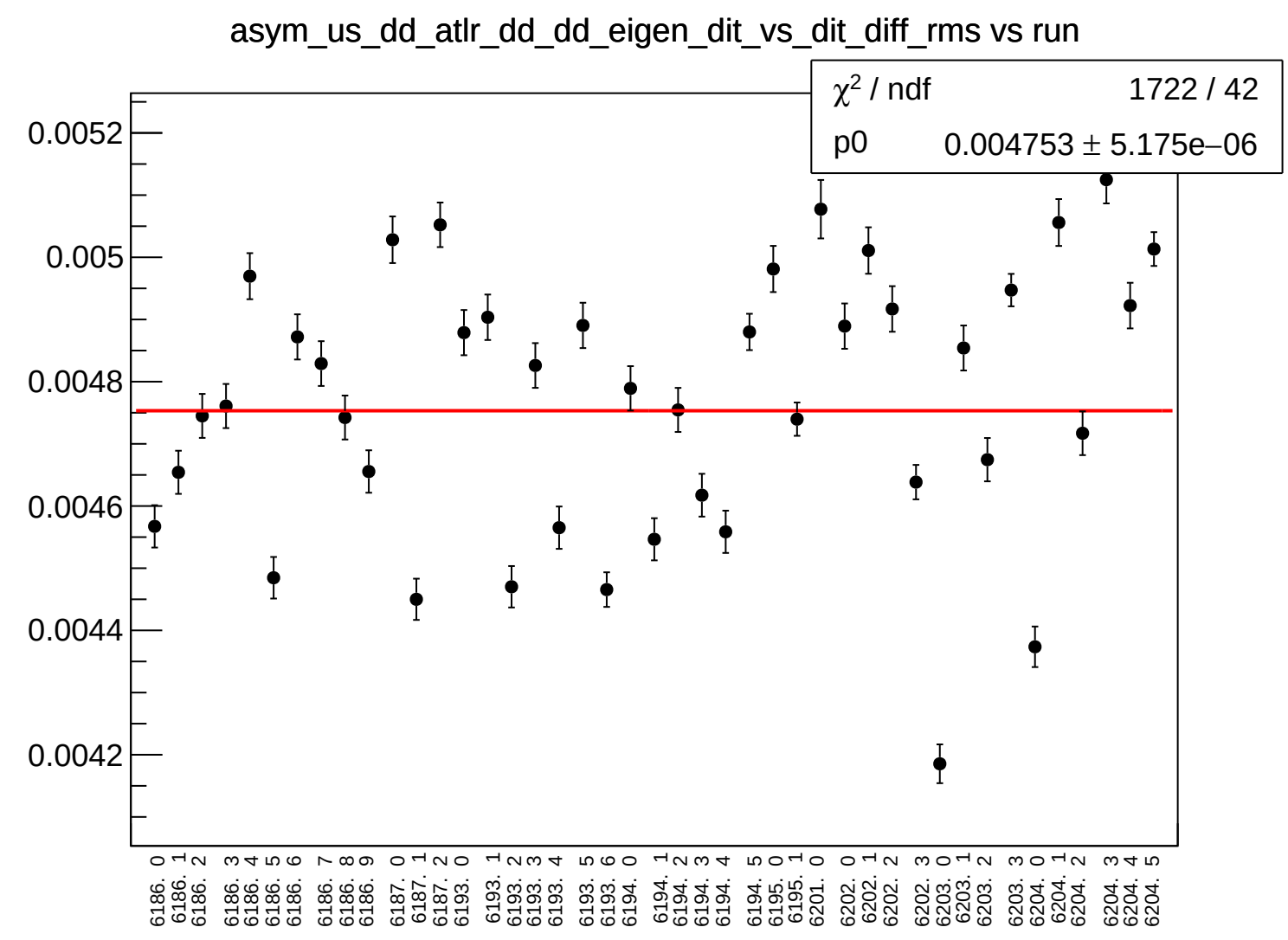

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 54.37 / 42
p0 0.005162 ± 0.04243
pull
Entries 43
Mean 18.11
Std Dev 13.54
pull1D
Entries 43
Mean −0.08252
Std Dev 1.121

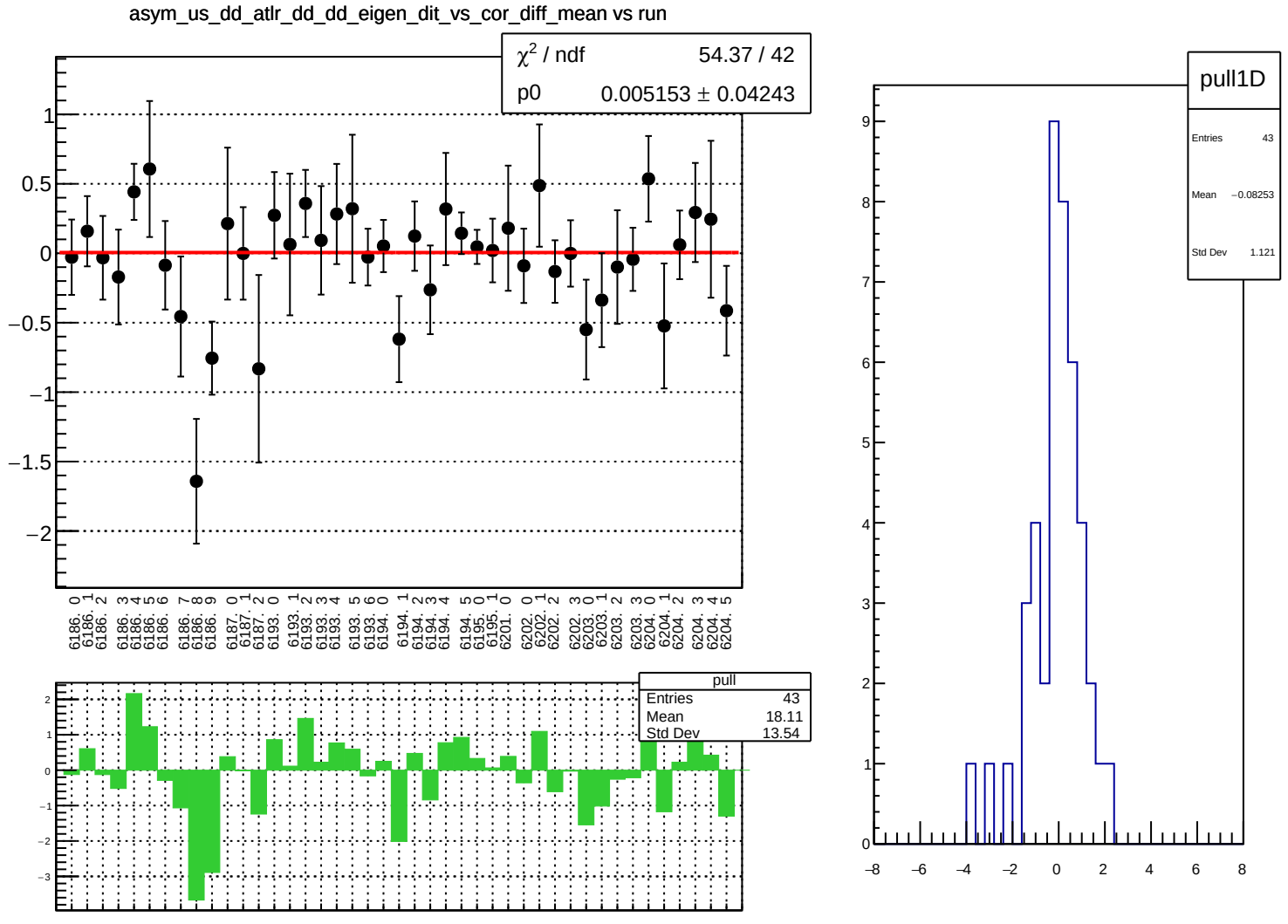

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.919e+04 / 42
p0 25.91 ± 0.03
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

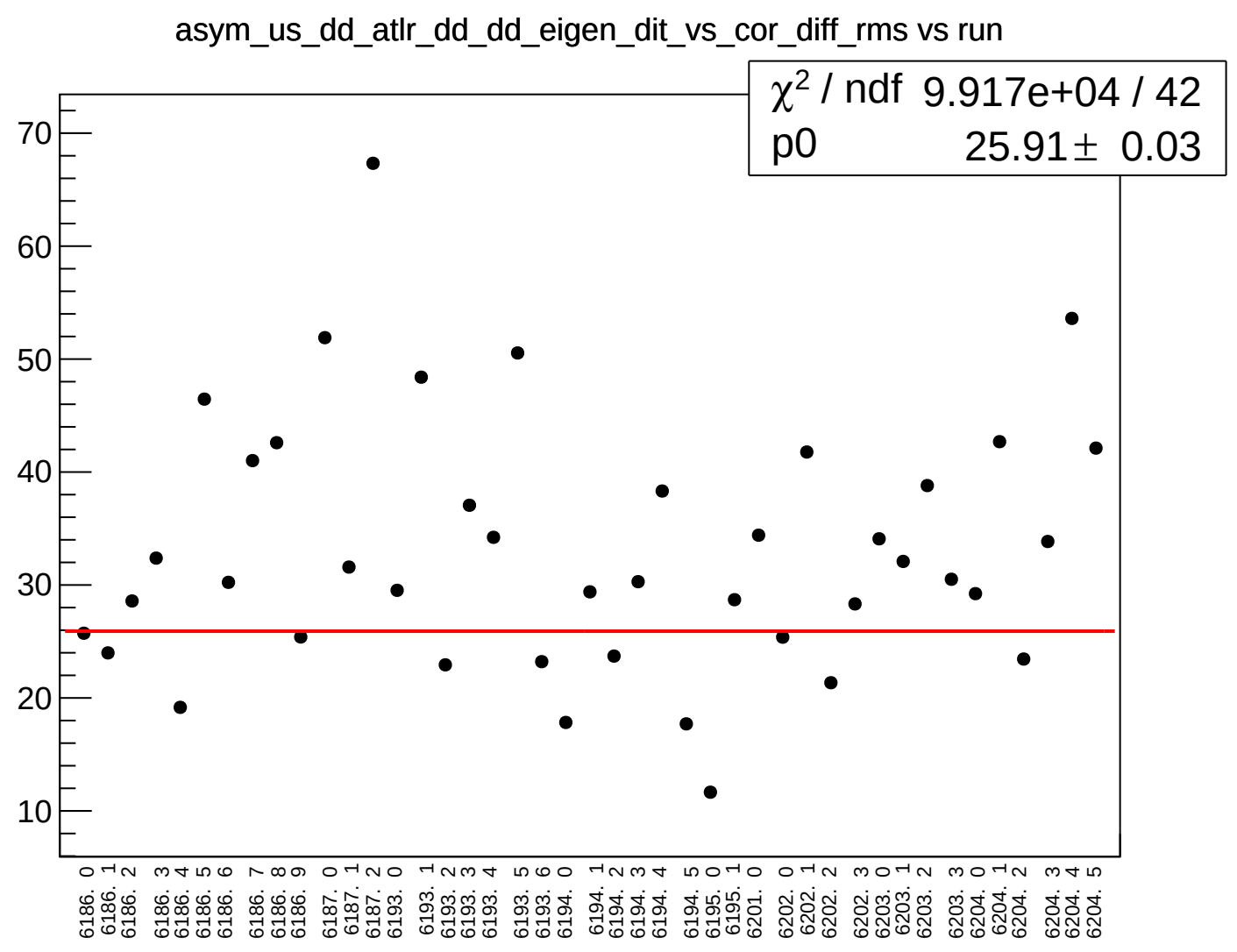

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.37 / 42
p0 0.005162 ± 0.04243
pull
Entries 43
Mean 18.11
Std Dev 13.54
pull1D
Entries 43
Mean −0.08252
Std Dev 1.121

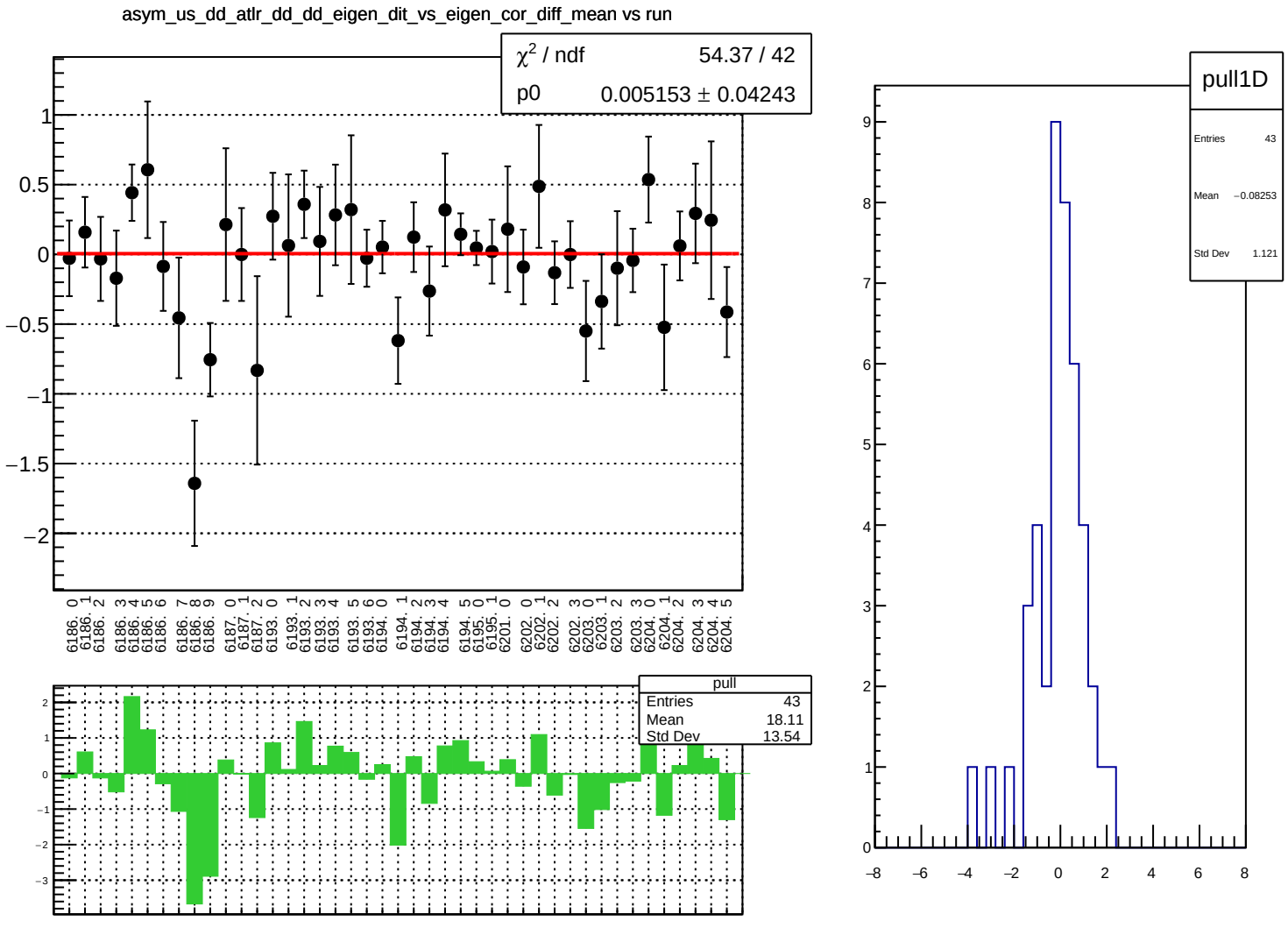

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.919e+04 / 42
p0 25.91 ± 0.03
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

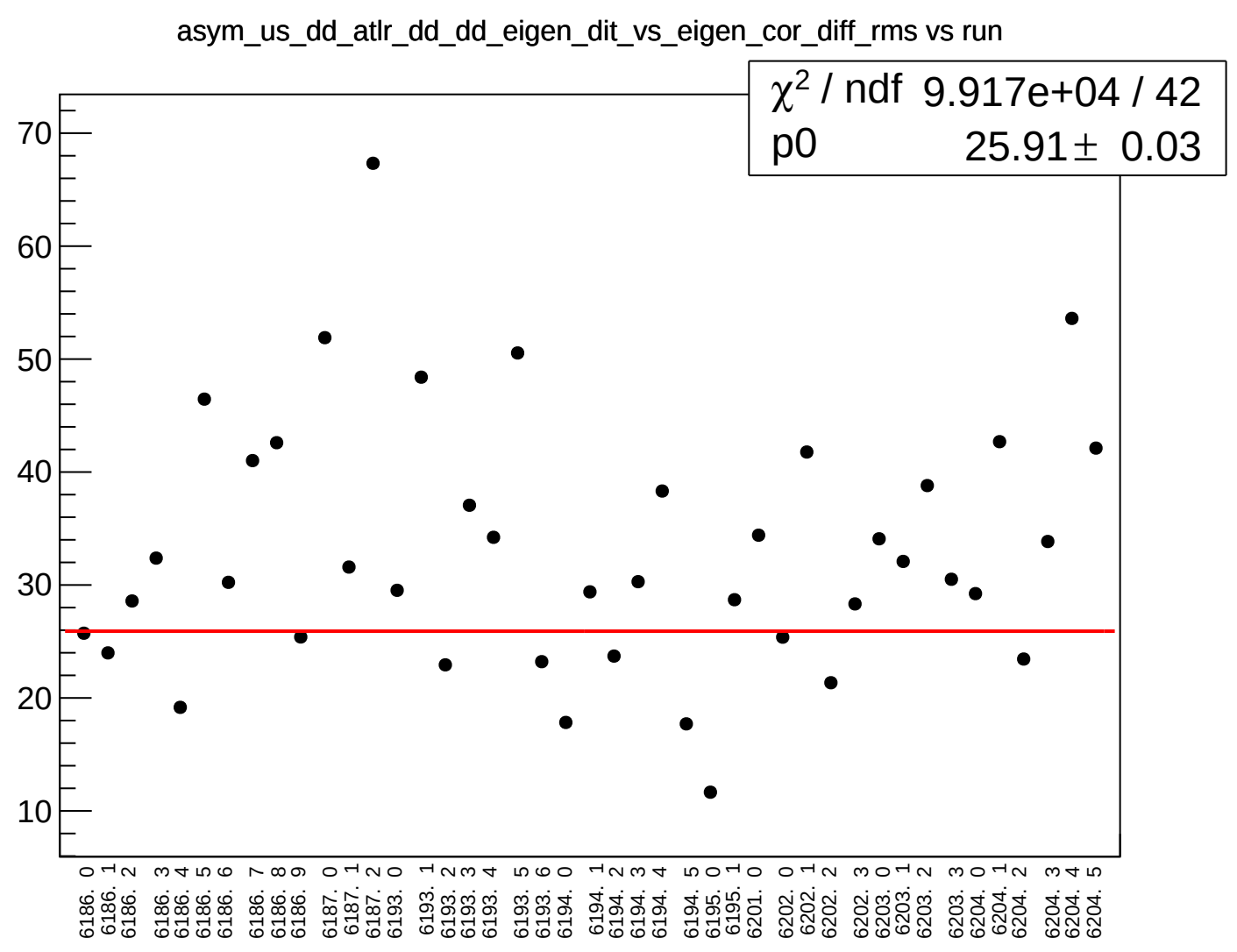

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 70.91 / 42
p0 −6.331e−06 ± 7.319e−06
0.2
0.1
0
−0.1
−0.2
−0.3
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 11.85
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.05307
Std Dev 1.283
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

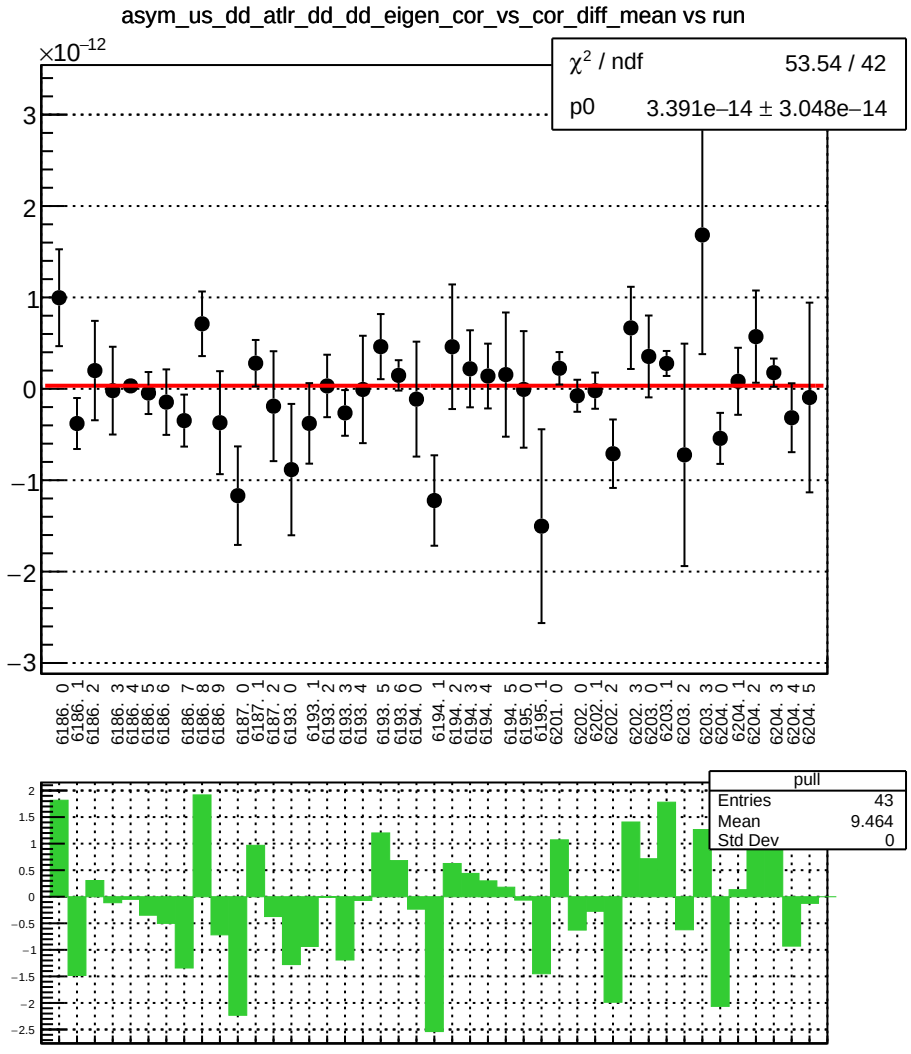

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1722 / 42
p0 0.004753 ± 5.175e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

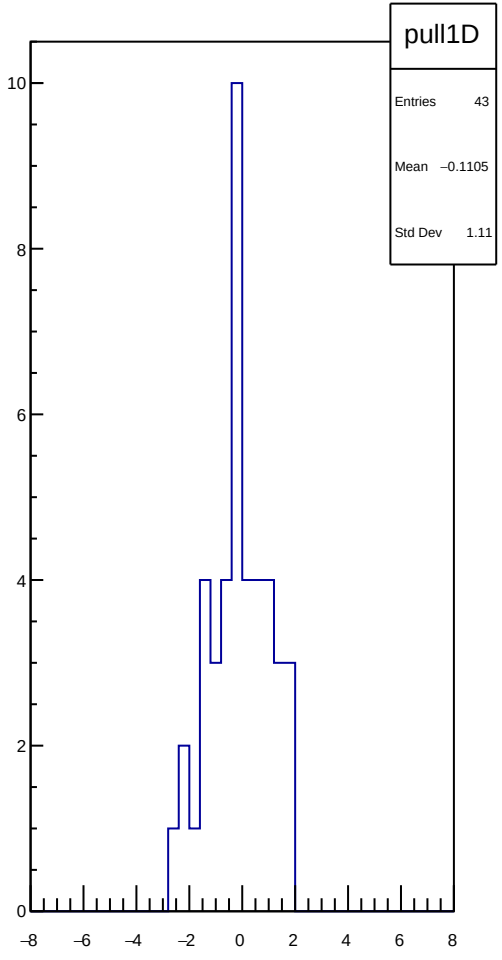

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.37 / 42
p0 0.005153 ± 0.04243
pull
Entries 43
Mean 18.11
Std Dev 13.54
pull1D
Entries 43
Mean −0.08253
Std Dev 1.121

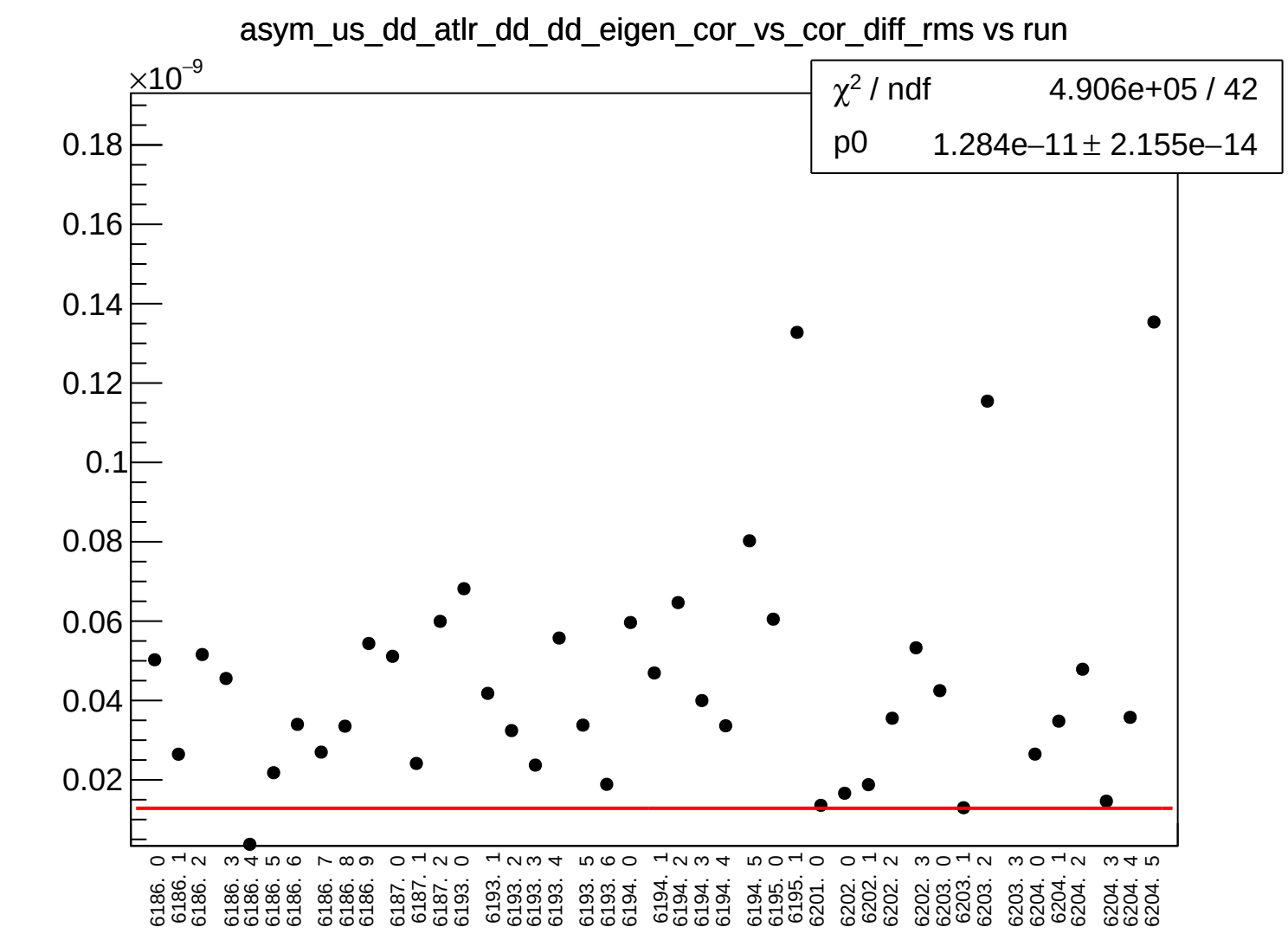

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.917e+04 / 42
p0 25.91 ± 0.03
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

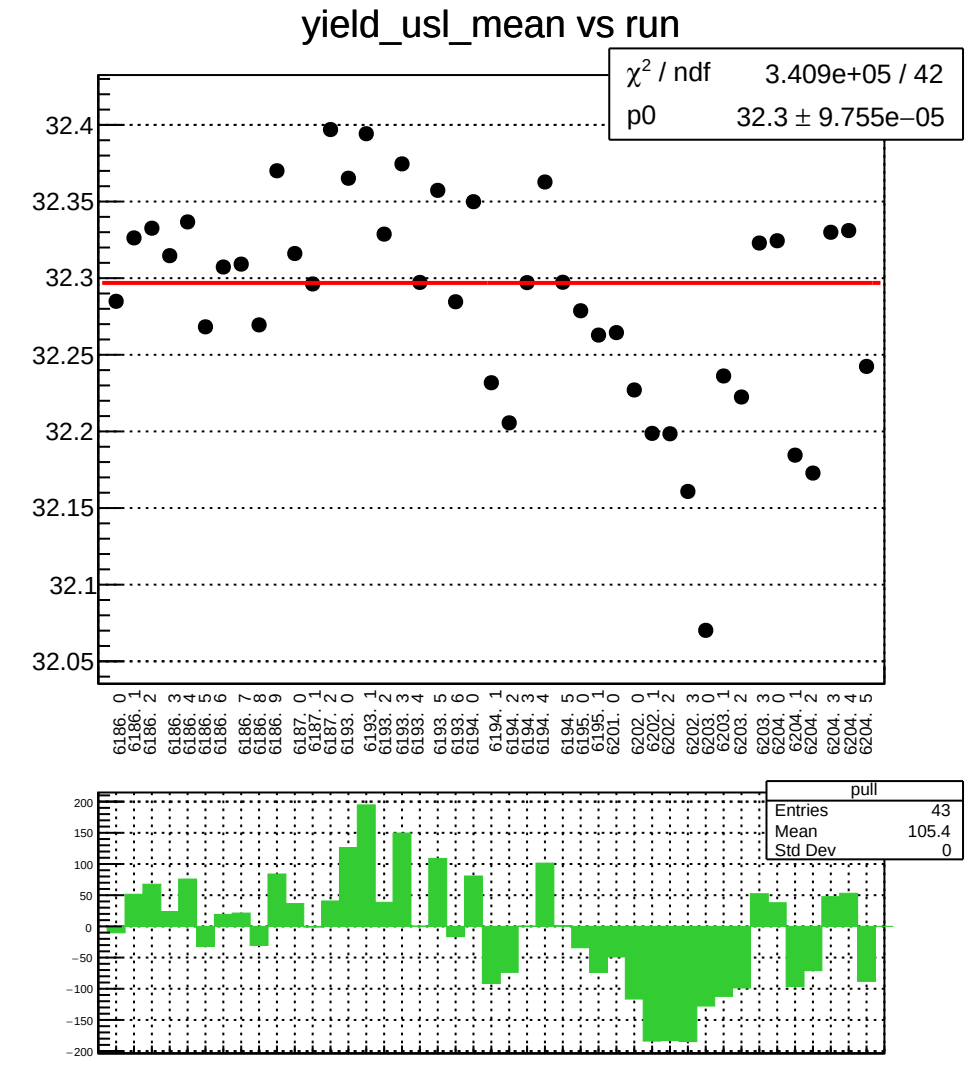

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.37 / 42
p0 0.005153 ± 0.04243
pull
Entries 43
Mean 18.11
Std Dev 13.54
pull1D
Entries 43
Mean −0.08253
Std Dev 1.121

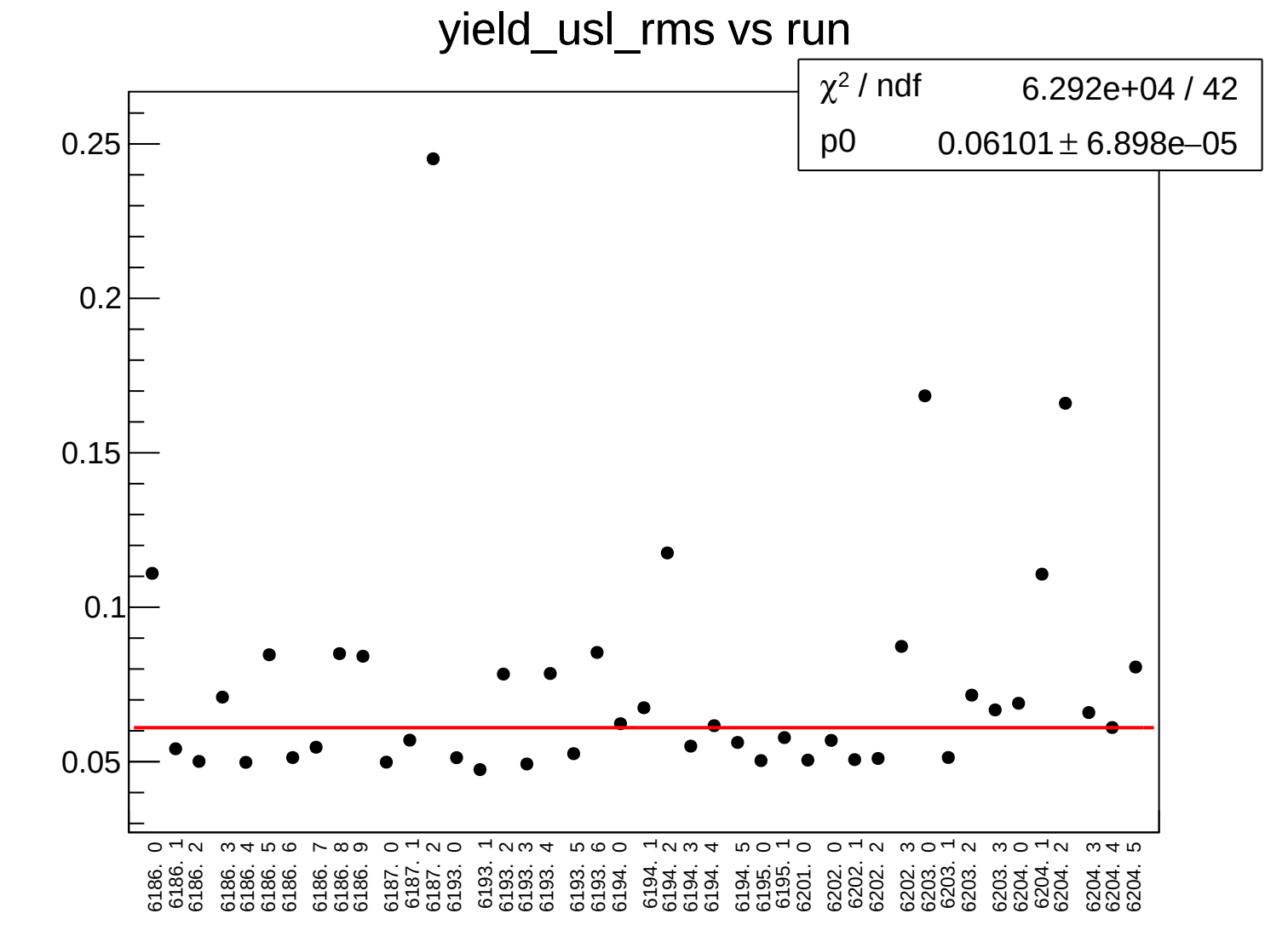

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.917e+04 / 42
p0 25.91 ± 0.03
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

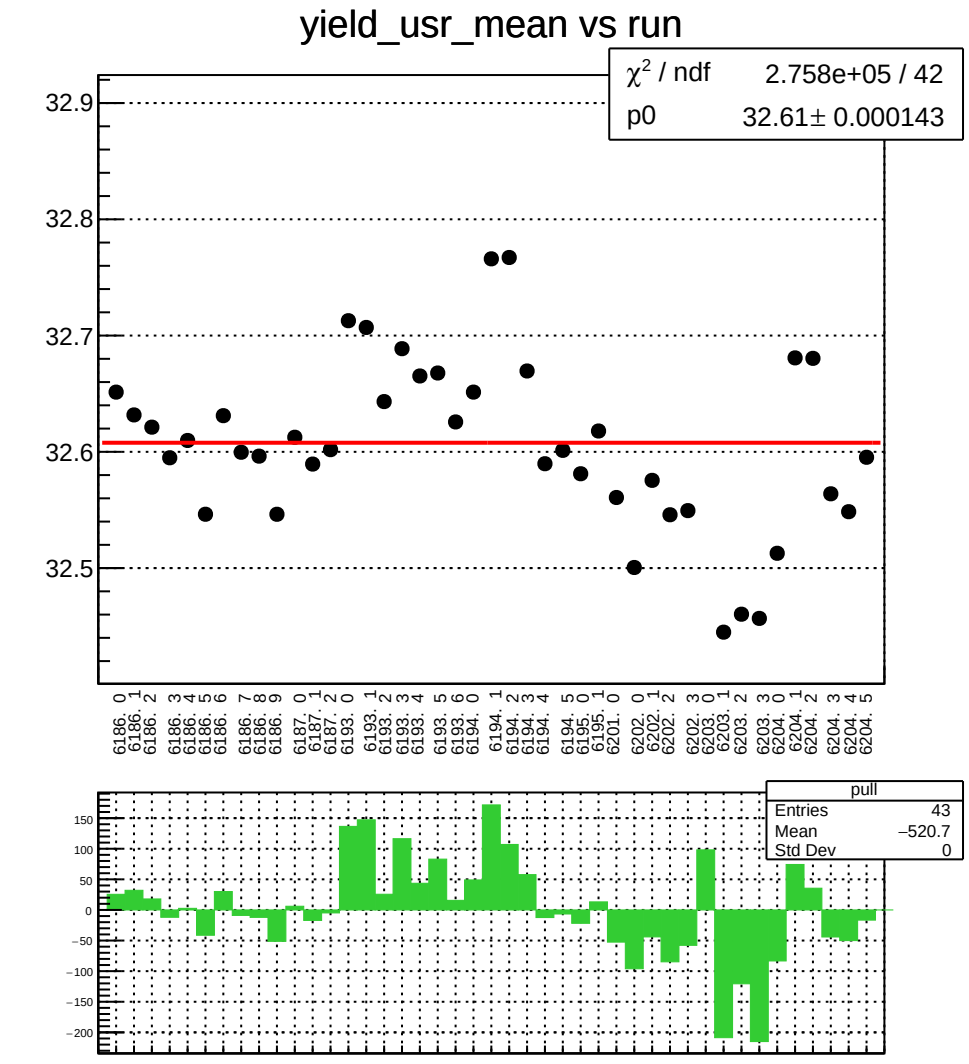

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 53.54 / 42
p0 3.391e−14 ± 3.048e−14
pull
Entries 43
Mean 9.464
Std Dev 0

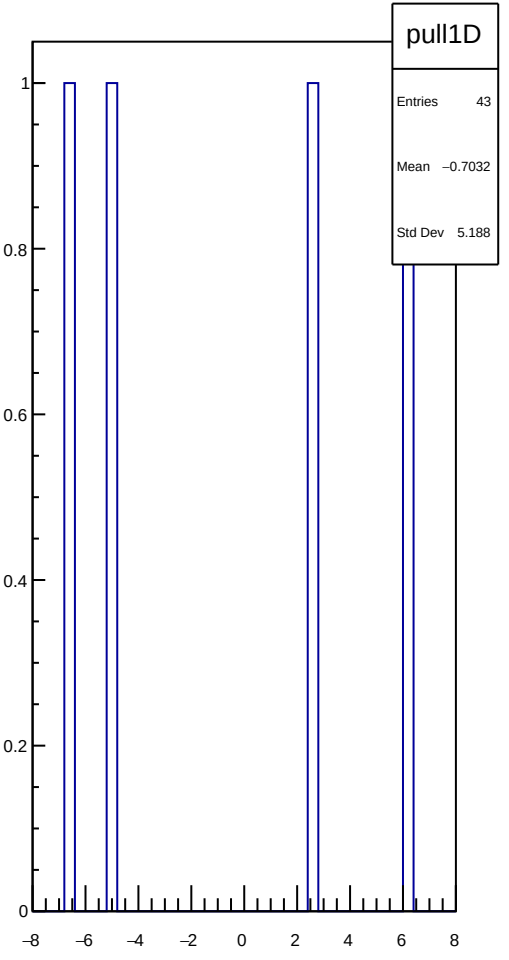

pull1D
Entries 43
Mean −0.1105
Std Dev 1.11

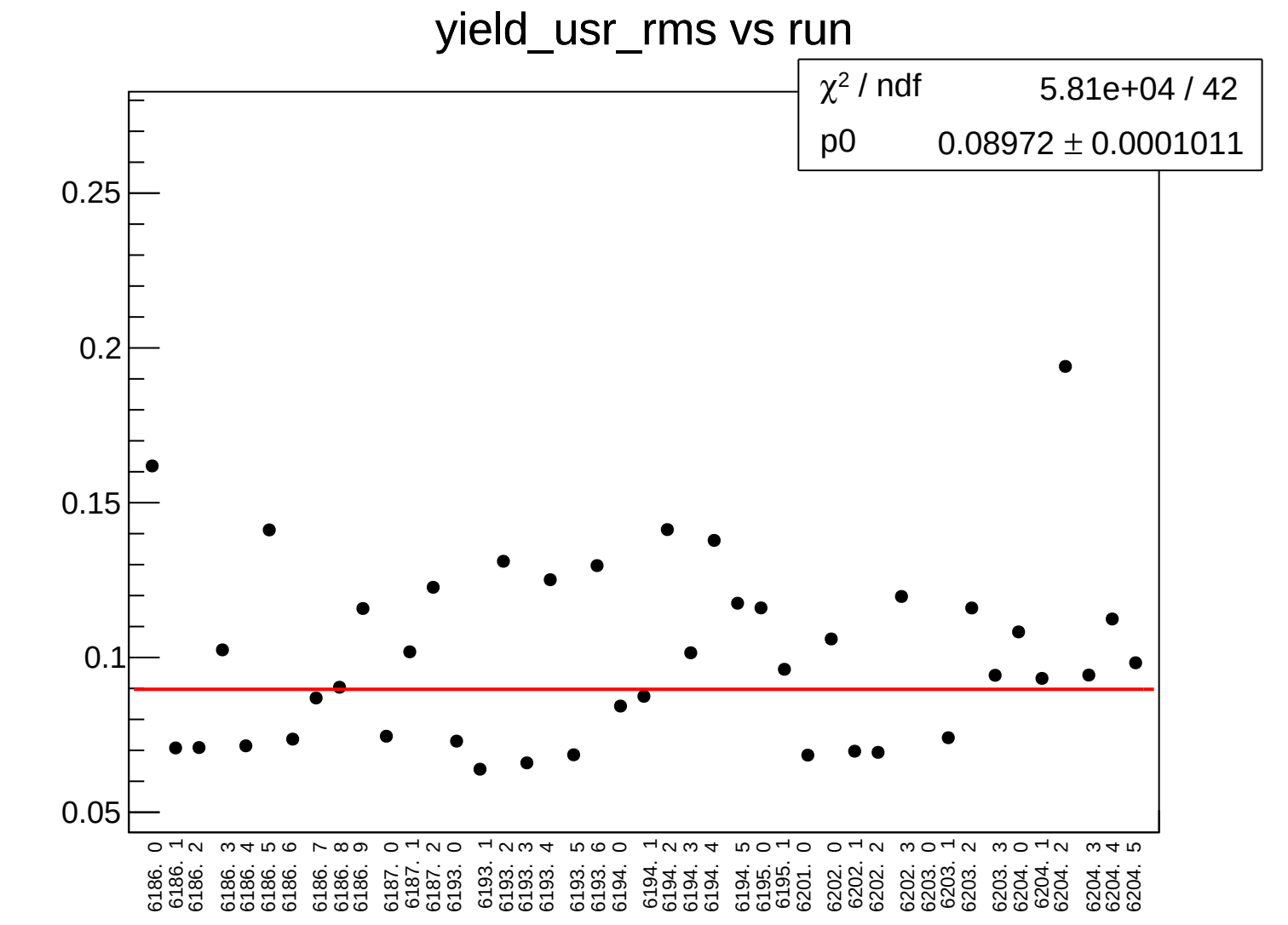

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.906e+05 / 42
p0 1.284e−11 ± 2.155e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

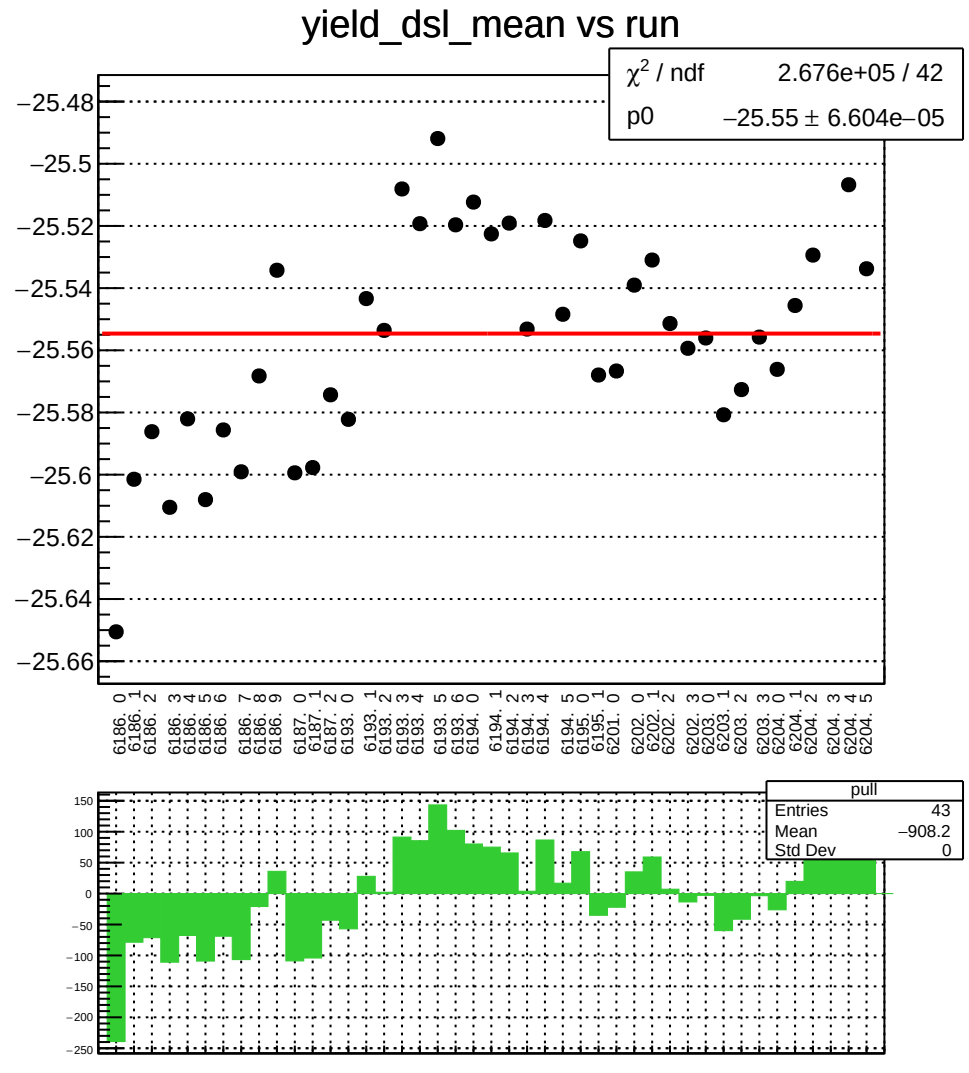

yield_usl_mean vs run
χ² / ndf 3.409e+05 / 42
p0 32.3 ± 9.755e−05
32.4
32.35
32.3
32.25
32.2
32.15
32.1
32.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 105.4
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 43
Mean 0.1304
Std Dev 0.7519
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

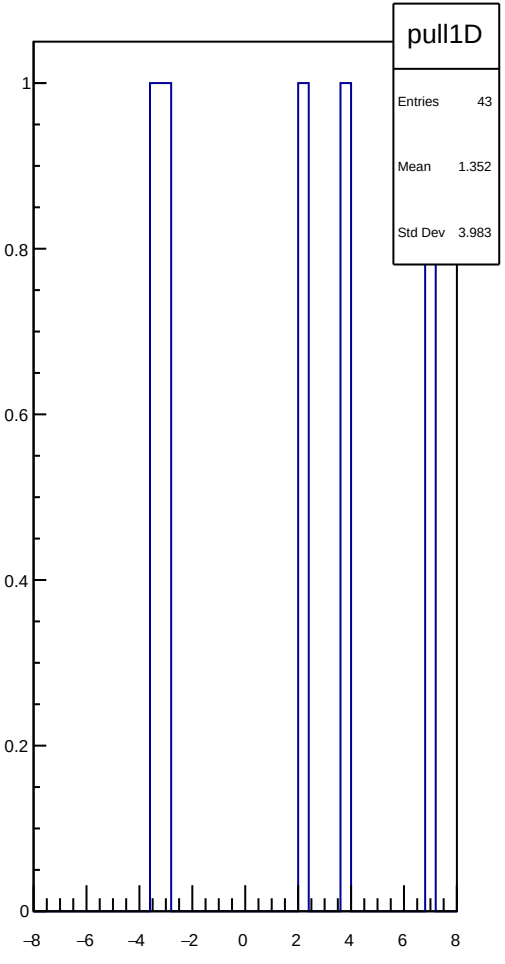

yield_usl_rms vs run
χ² / ndf 6.292e+04 / 42
p0 0.06101 ± 6.898e–05
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

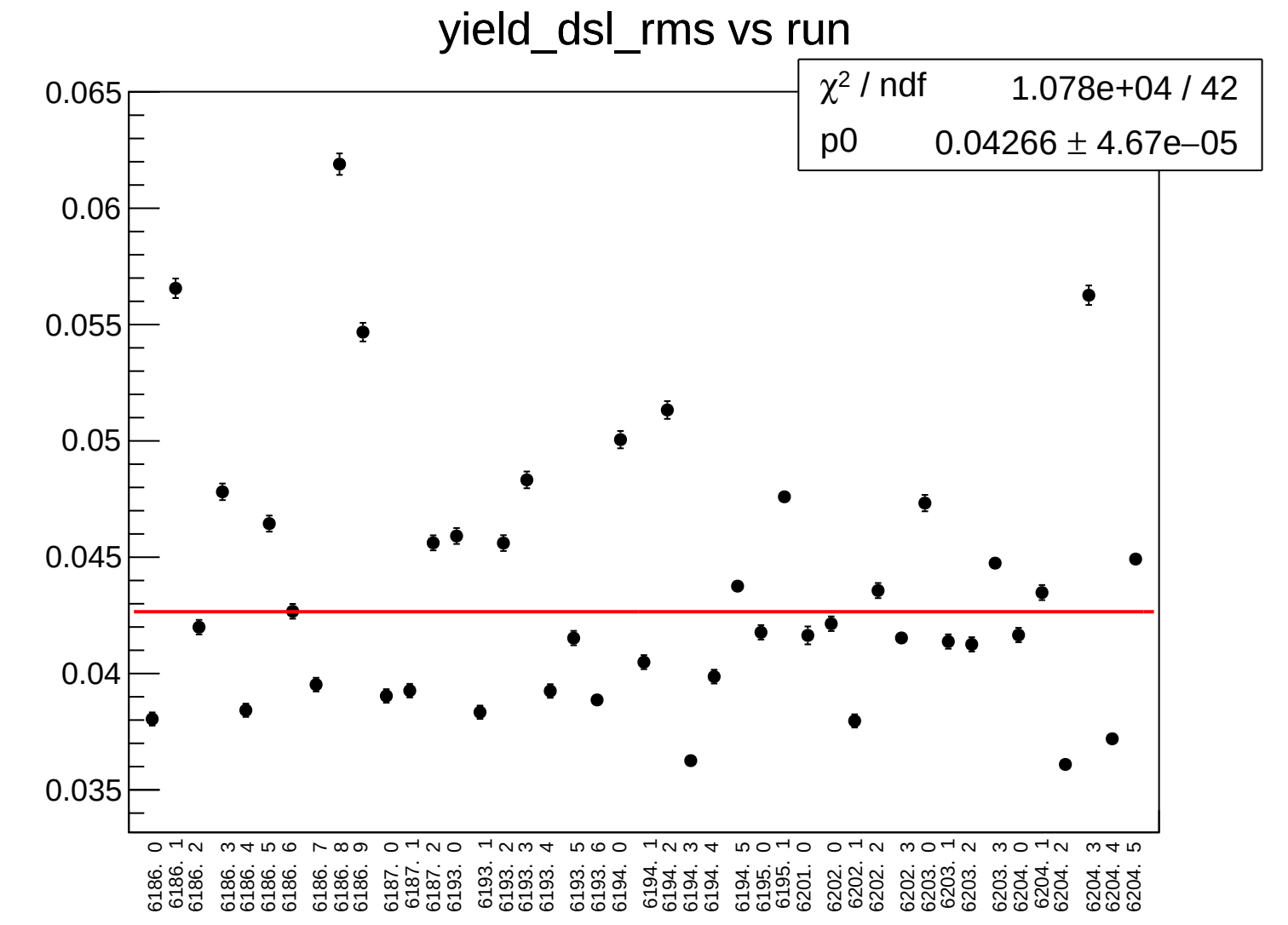

yield_usr_mean vs run
χ² / ndf 2.758e+05 / 42
p0 32.61± 0.000143
32.9
32.8
32.7
32.6
32.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −520.7
Std Dev 0
150
100
50
0
−50
−100
−150
−200

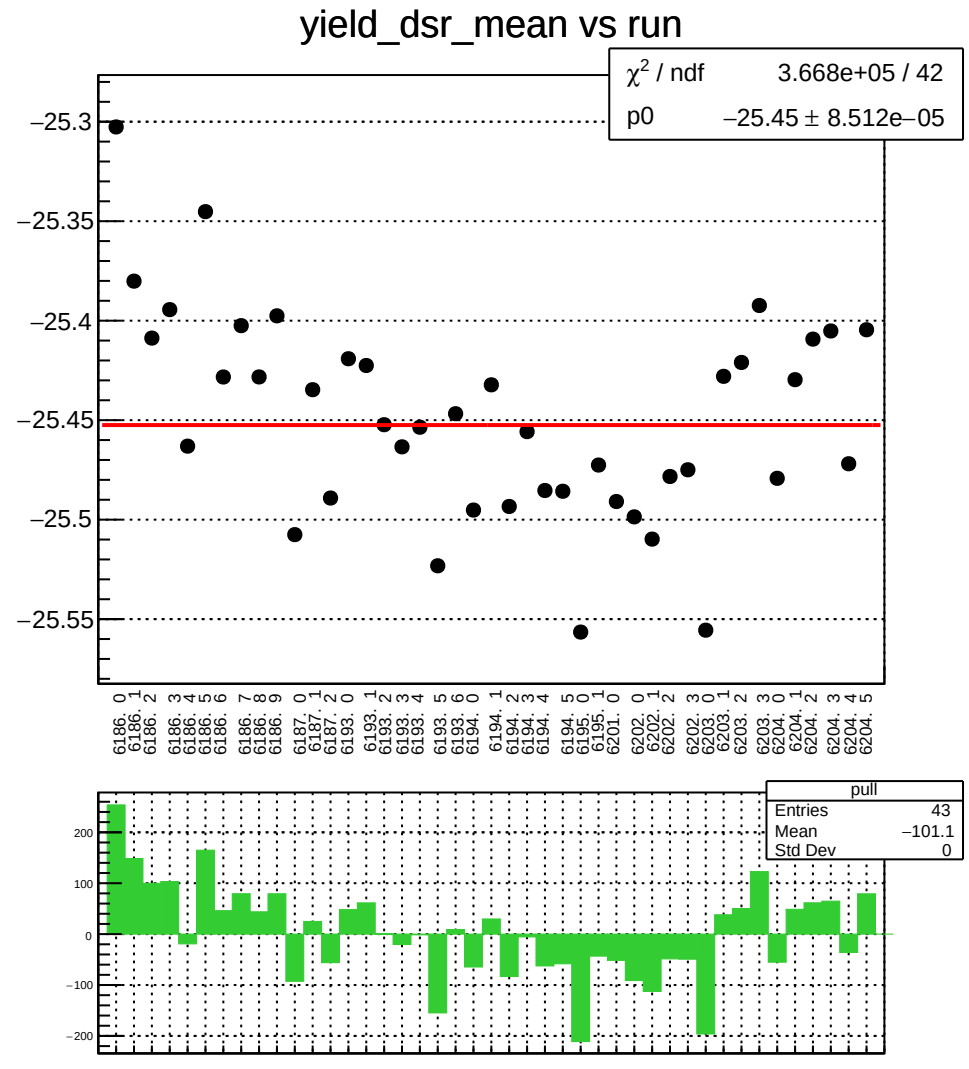

pull1D
Entries 43
Mean −0.7032
Std Dev 5.188
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

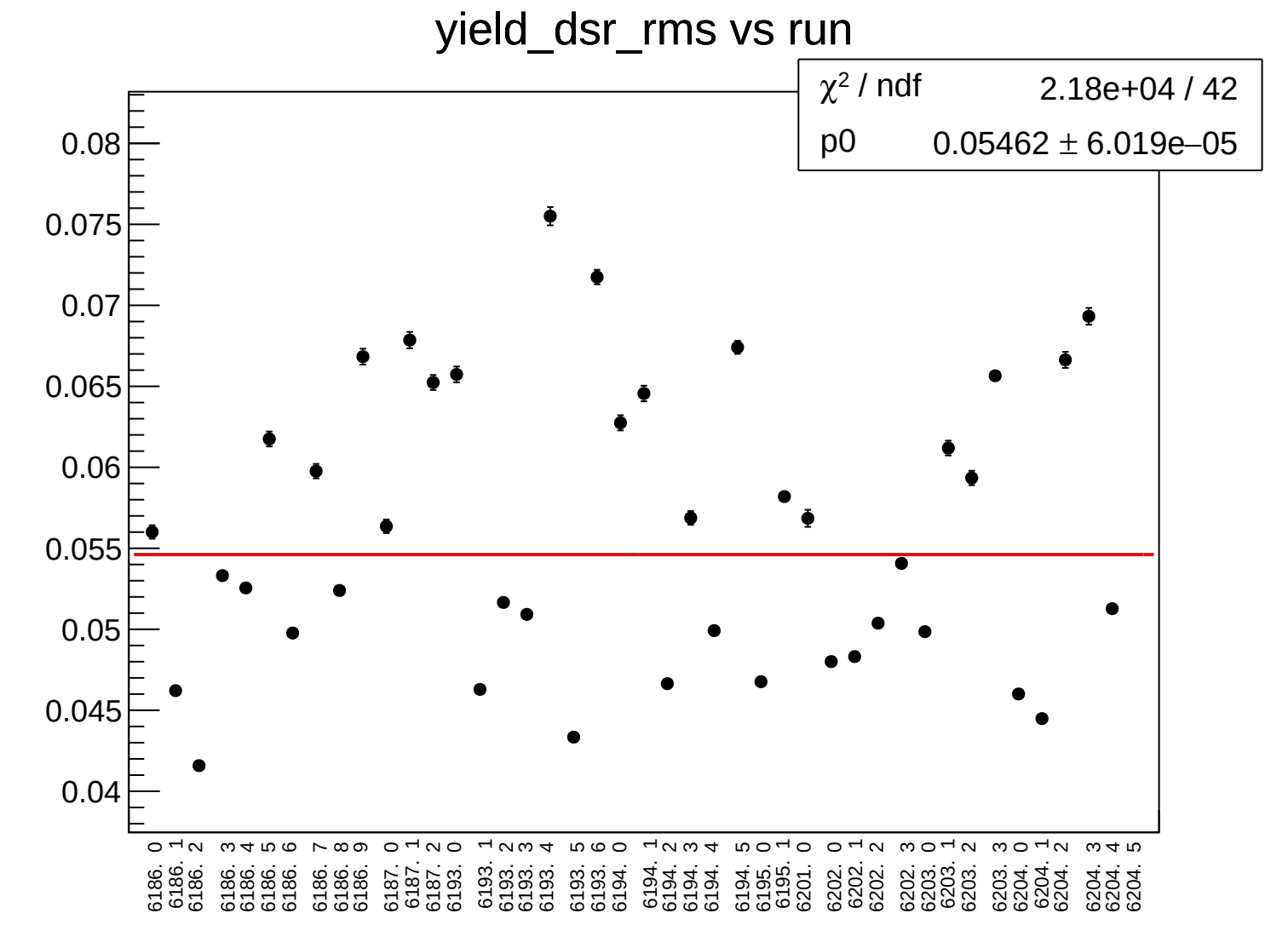

yield_usr_rms vs run
χ² / ndf 5.81e+04 / 42
p0 0.08972 ± 0.0001011
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

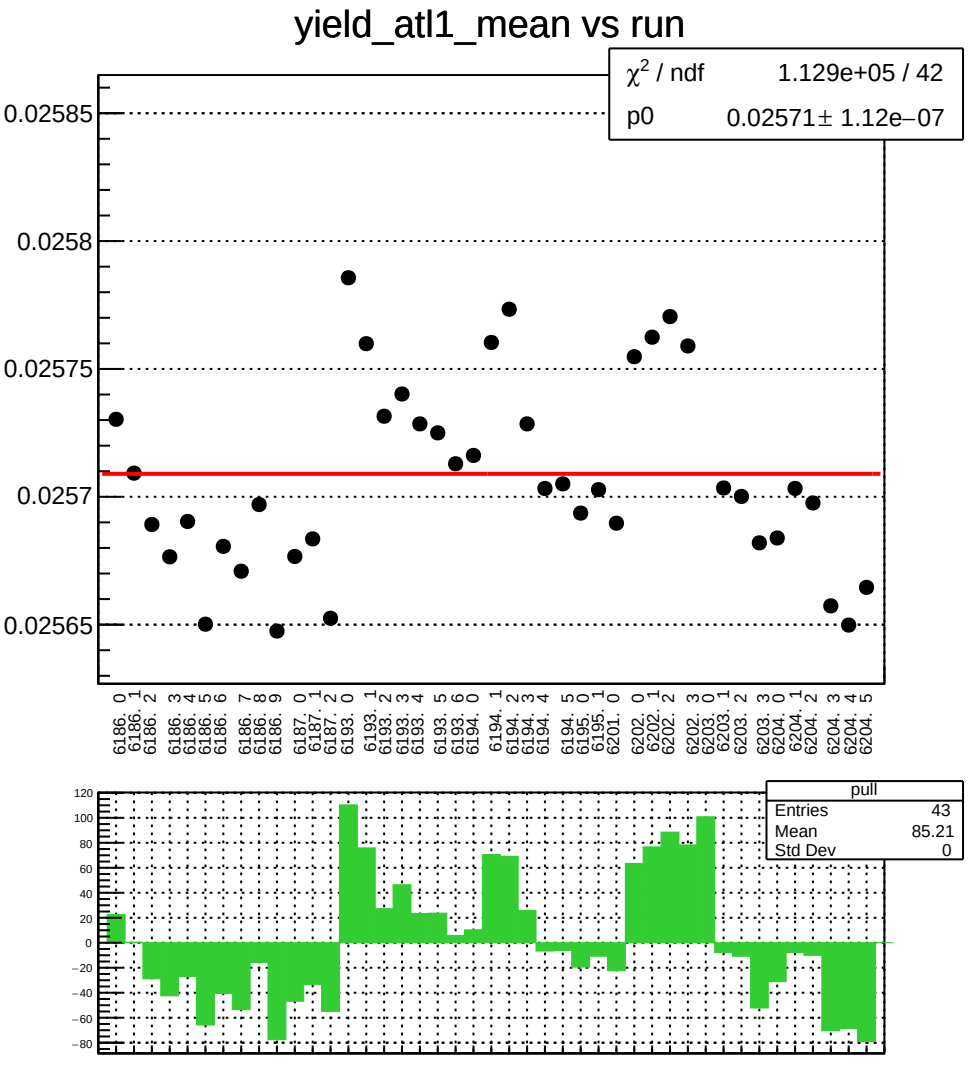

yield_dsl_mean vs run
χ² / ndf 2.676e+05 / 42
p0 −25.55 ± 6.604e−05
−25.48
−25.5
−25.52
−25.54
−25.56
−25.58
−25.6
−25.62
−25.64
−25.66
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −908.2
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

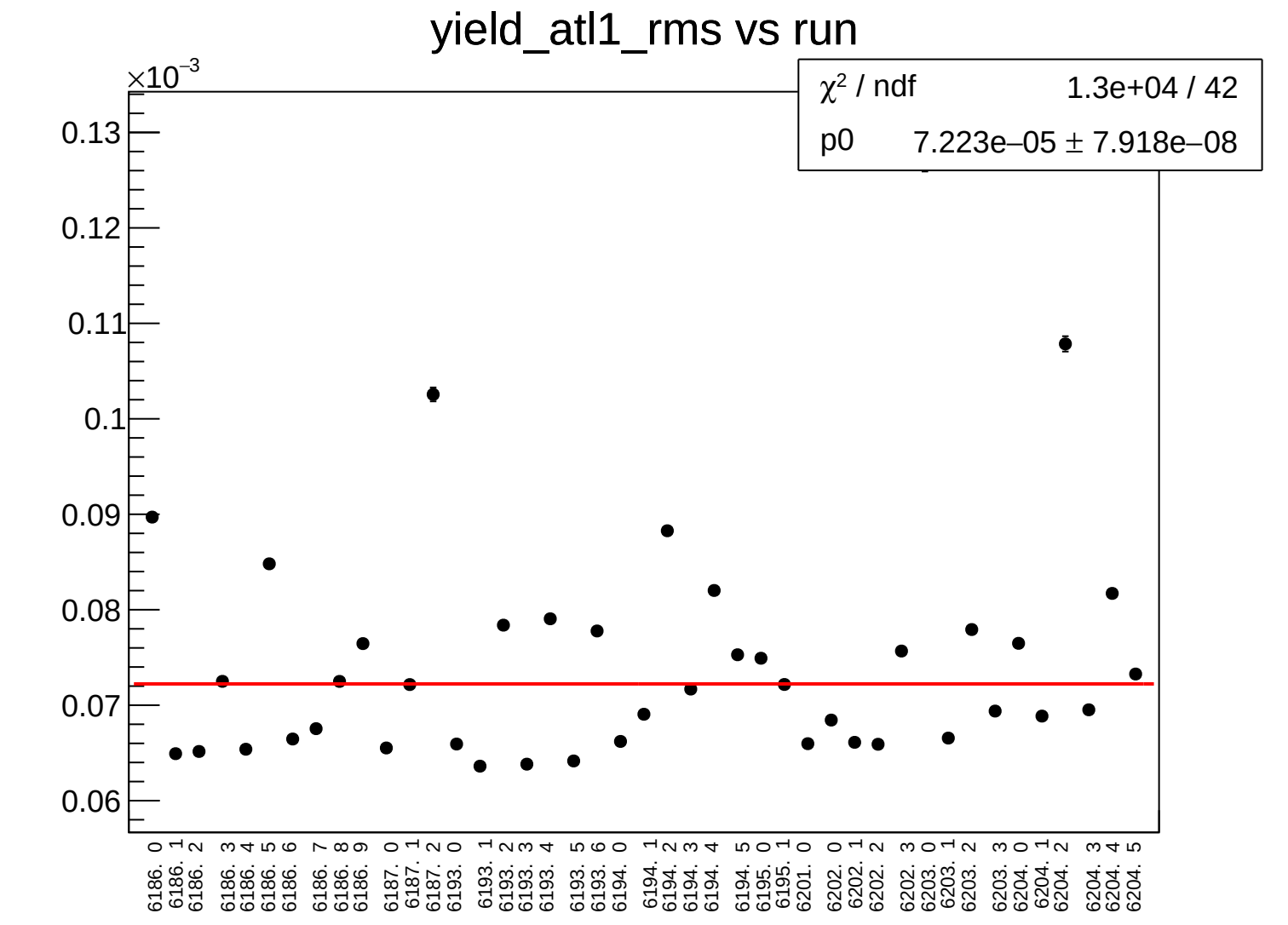

pull1D
Entries 43
Mean 1.352
Std Dev 3.983
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

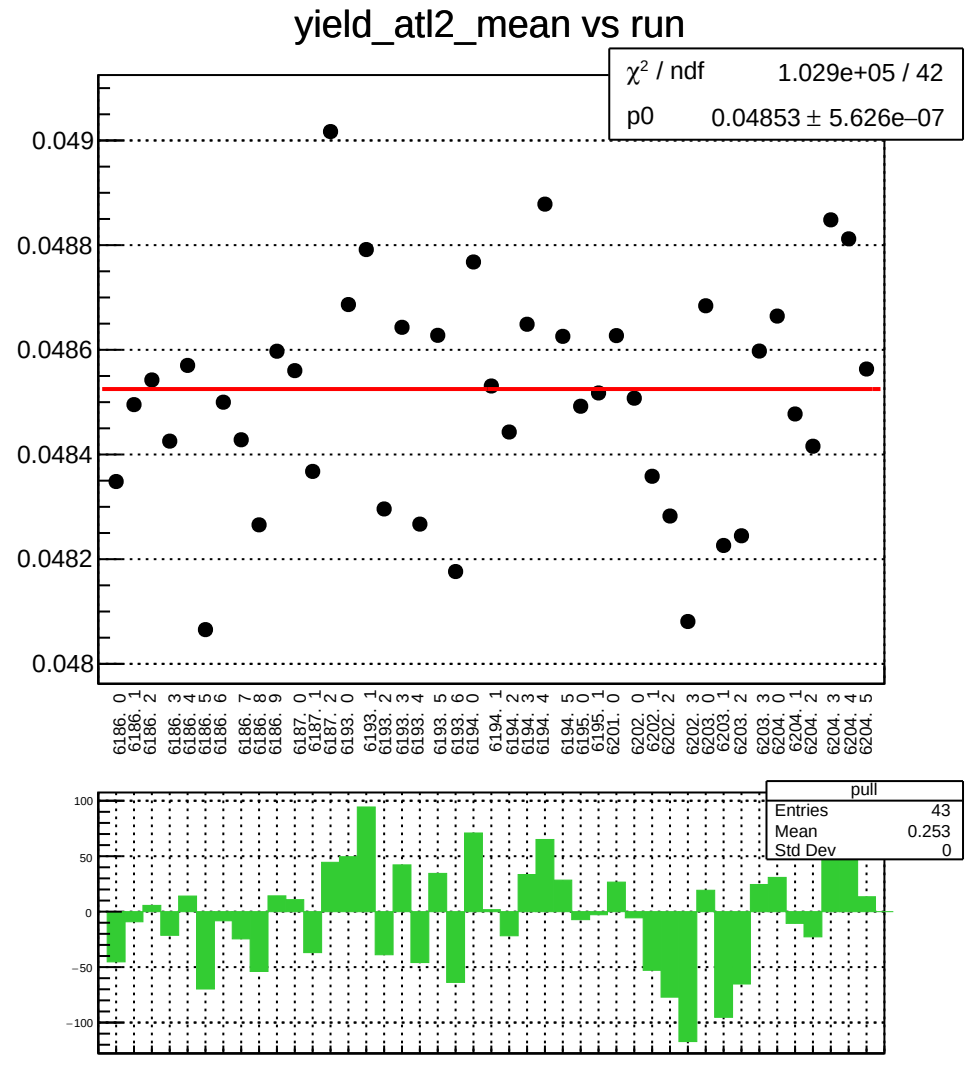

yield_dsl_rms vs run
χ² / ndf 1.078e+04 / 42
p0 0.04266 ± 4.67e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

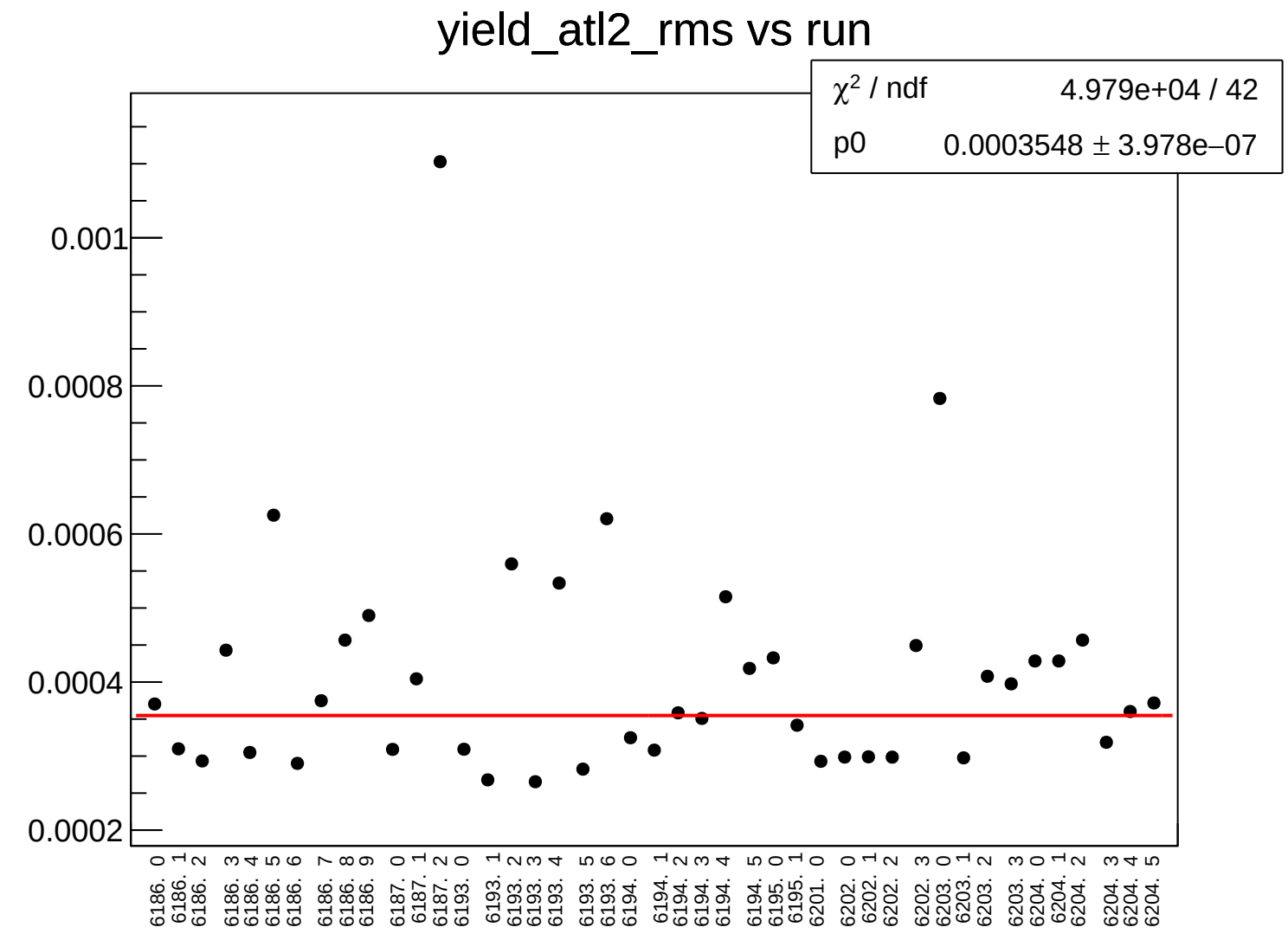

yield_dsr_mean vs run
χ² / ndf 3.668e+05 / 42
p0 −25.45 ± 8.512e−05
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −101.1
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 43
Mean −2.166
Std Dev 2.449
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

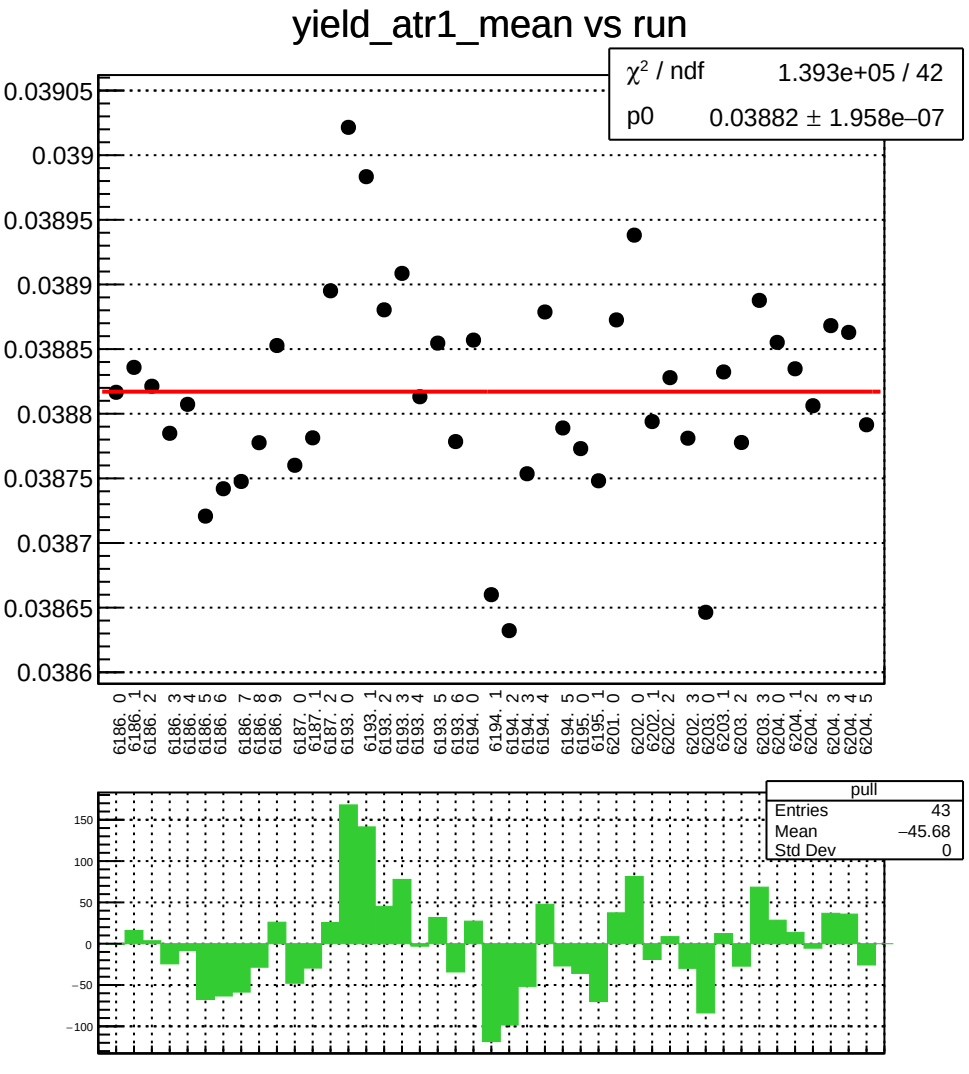

yield_dsr_rms vs run
χ² / ndf 2.18e+04 / 42
p0 0.05462 ± 6.019e−05
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

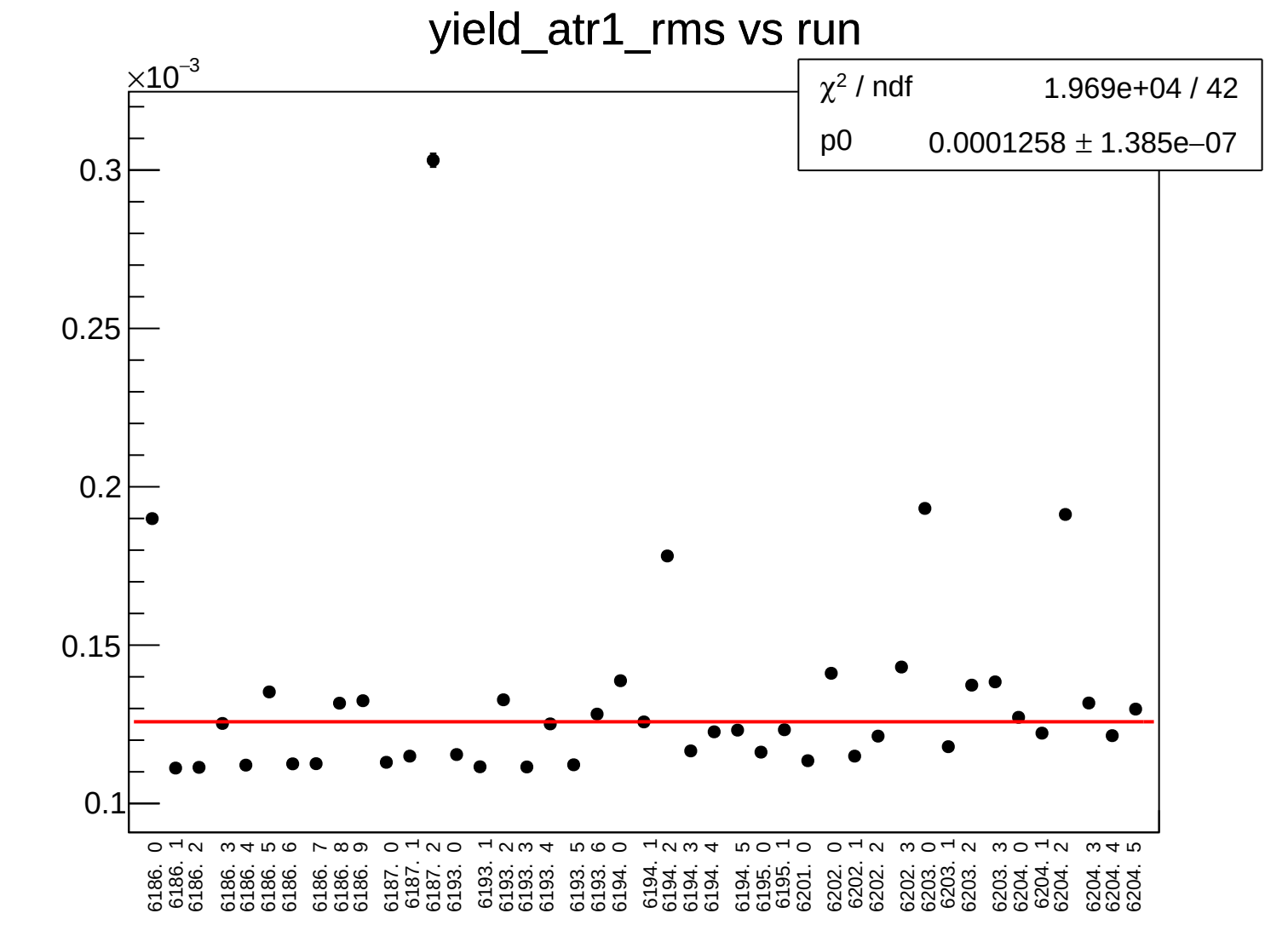

yield_atl1_mean vs run
χ² / ndf 1.129e+05 / 42
p0 0.02571± 1.12e−07
0.02585
0.0258
0.02575
0.0257
0.02565
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 85.21
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 43
Mean −3.74
Std Dev 5.086
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

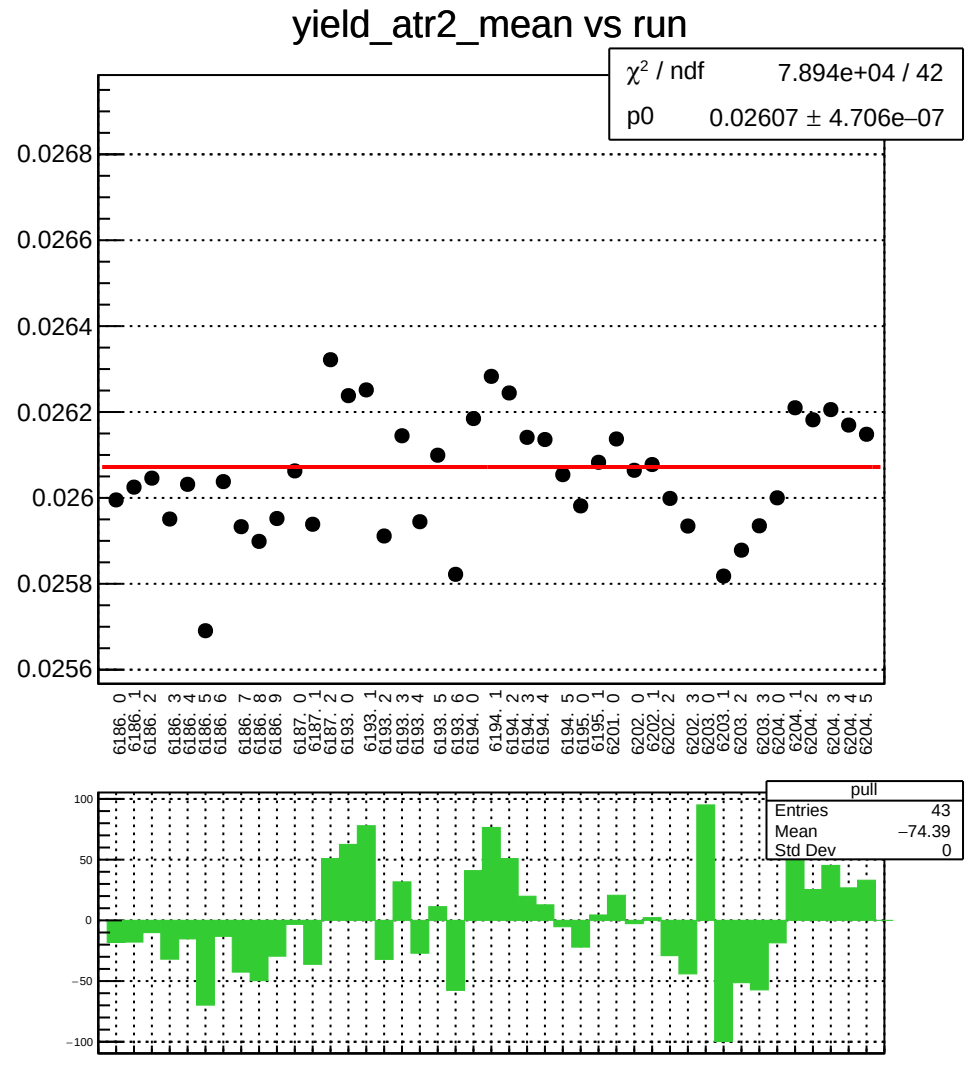

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.3e+04 / 42
p0 7.223e−05 ± 7.918e−08
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

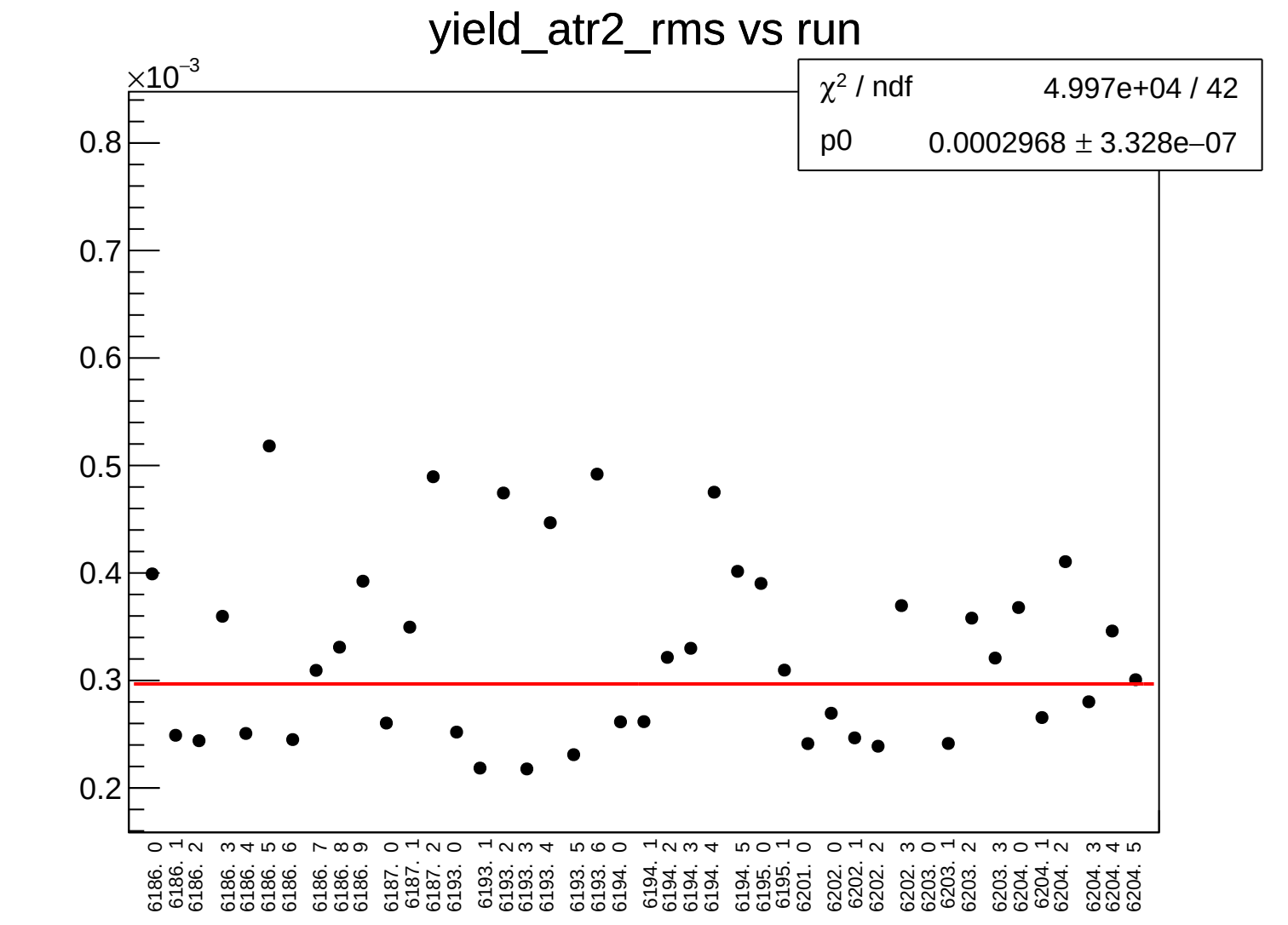

yield_atl2_mean vs run
χ² / ndf 1.029e+05 / 42
p0 0.04853 ± 5.626e−07
0.049
0.0488
0.0486
0.0484
0.0482
0.048
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 0.253
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 43
Mean −1.62
Std Dev 4.734
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

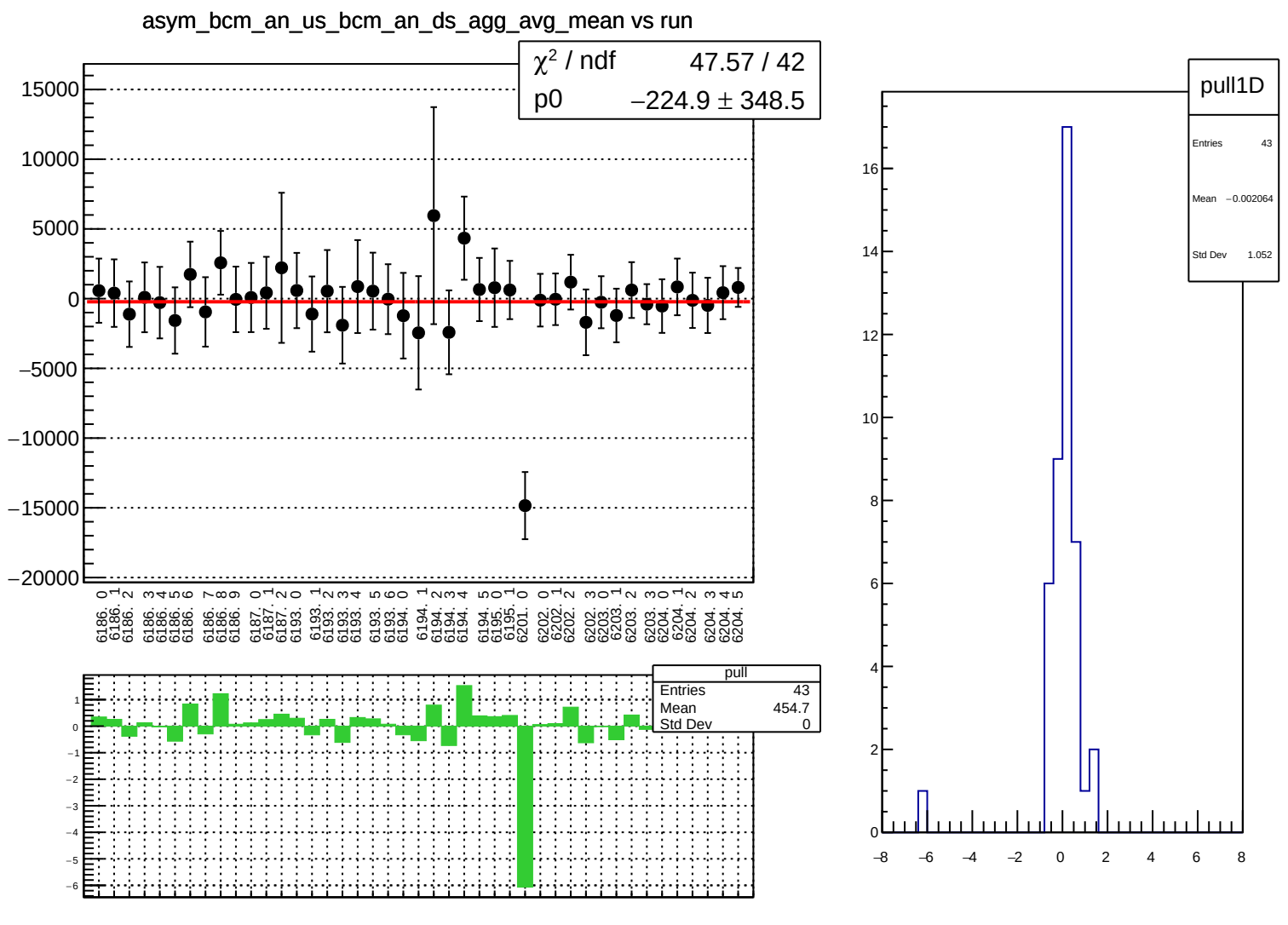

yield_atl2_rms vs run
χ² / ndf 4.979e+04 / 42
p0 0.0003548 ± 3.978e−07
0.001
0.0008
0.0006
0.0004
0.0002
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

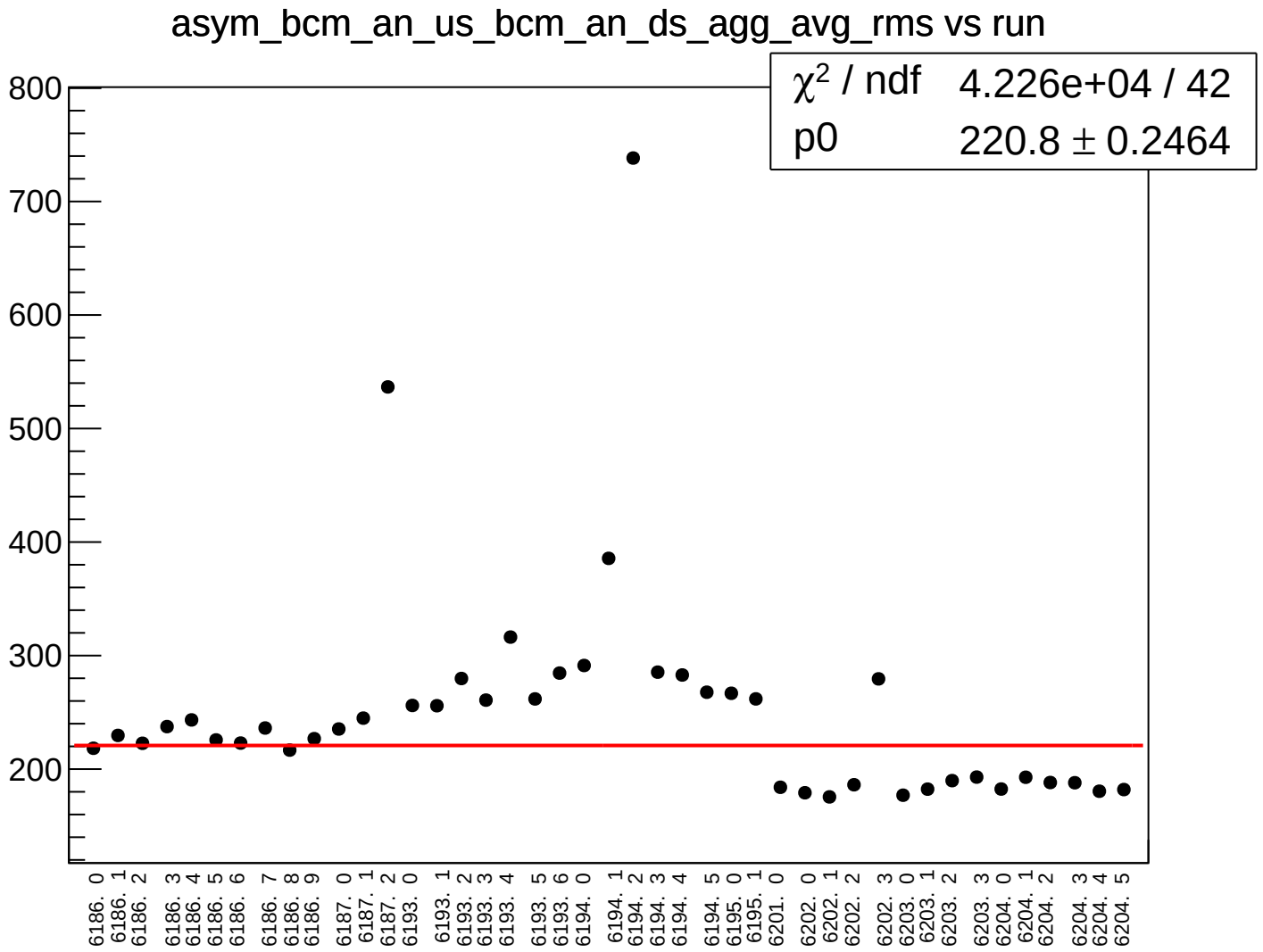

yield_atr1_mean vs run
χ² / ndf 1.393e+05 / 42
p0 0.03882 ± 1.958e−07
0.03905
0.039
0.03895
0.0389
0.03885
0.0388
0.03875
0.0387
0.03865
0.0386
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −45.68
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 43
Mean −1.264
Std Dev 3.334
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

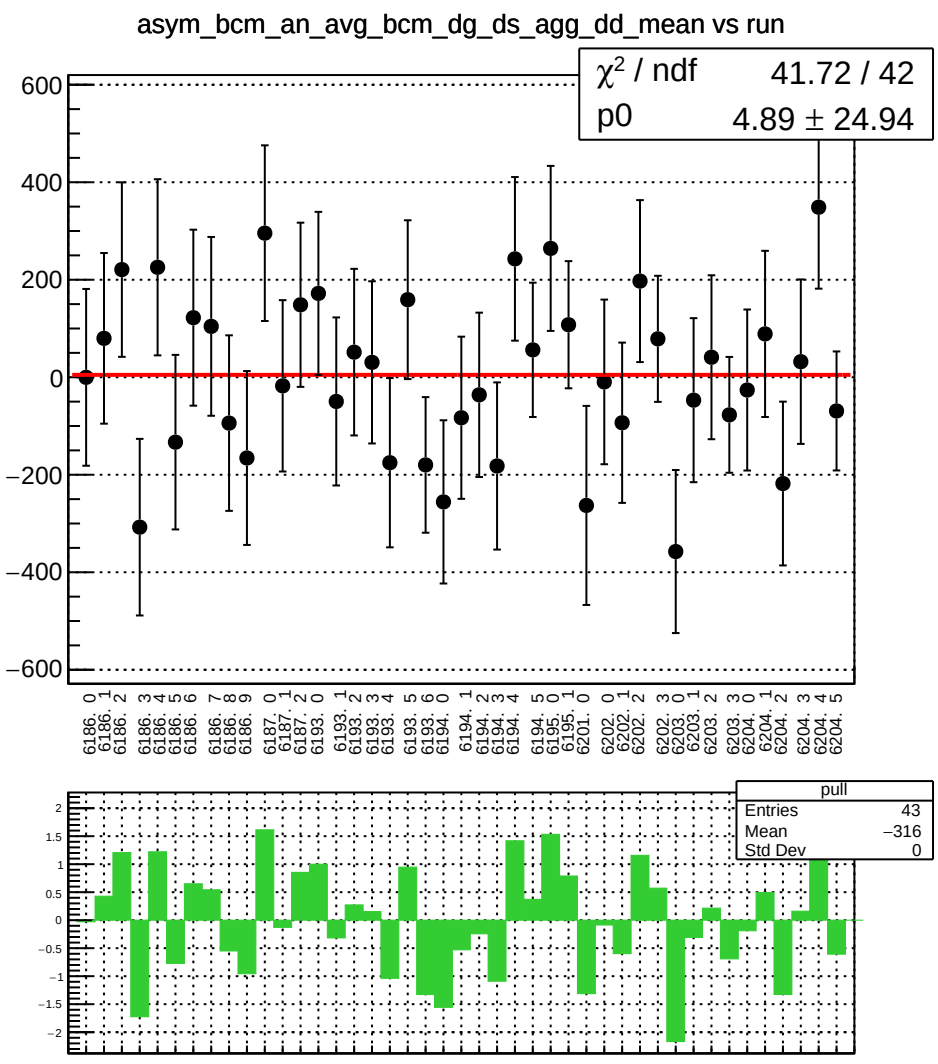

yield_atr1_rms vs run
χ^2 / ndf 1.969e+04 / 42
p0 0.0001258 ± 1.385e−07
×10⁻³
0.3
0.25
0.2
0.15
0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

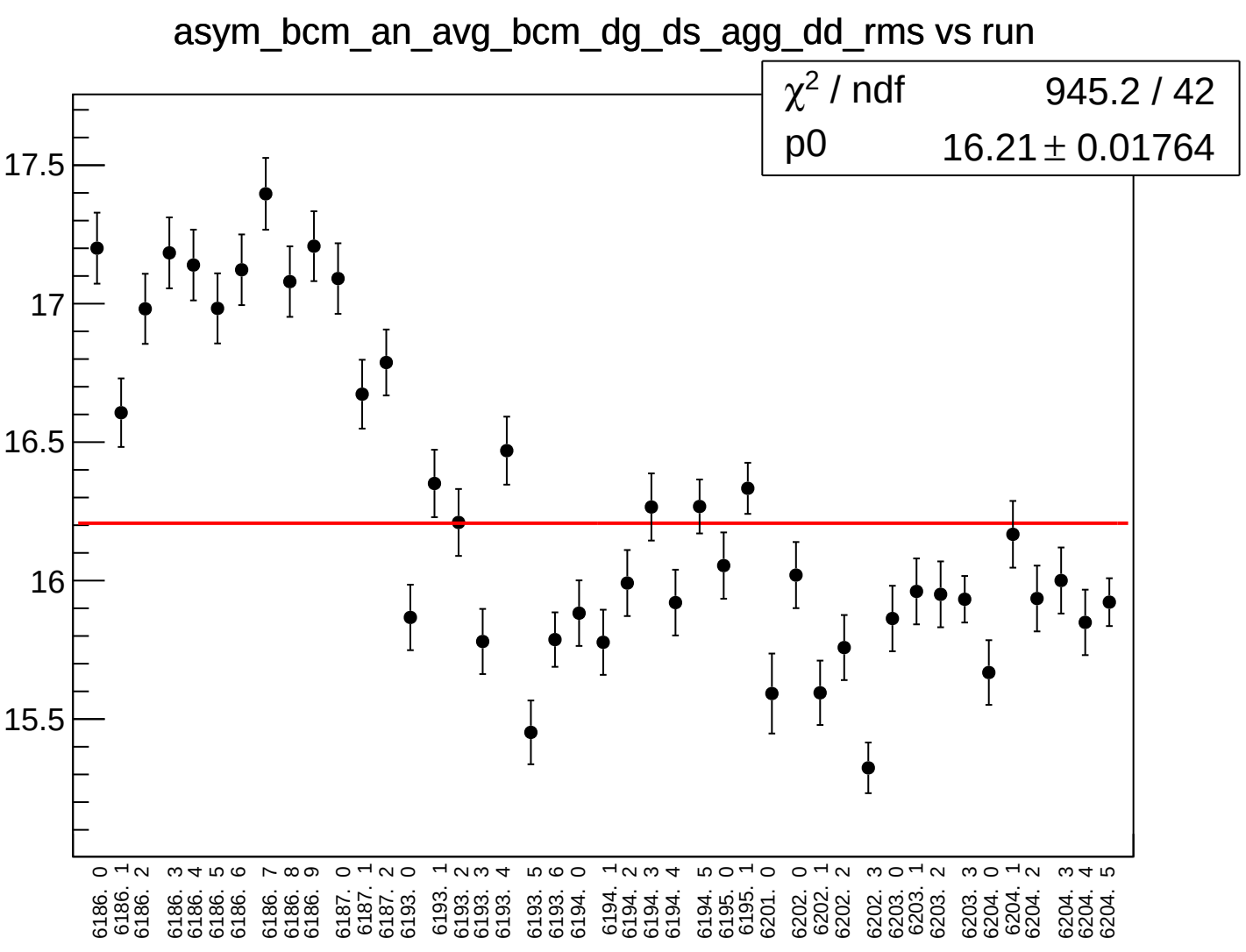

yield_atr2_mean vs run
χ² / ndf 7.894e+04 / 42
p0 0.02607 ± 4.706e−07
0.0268
0.0266
0.0264
0.0262
0.026
0.0258
0.0256
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −74.39
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 43
Mean −0.919
Std Dev 3.629
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

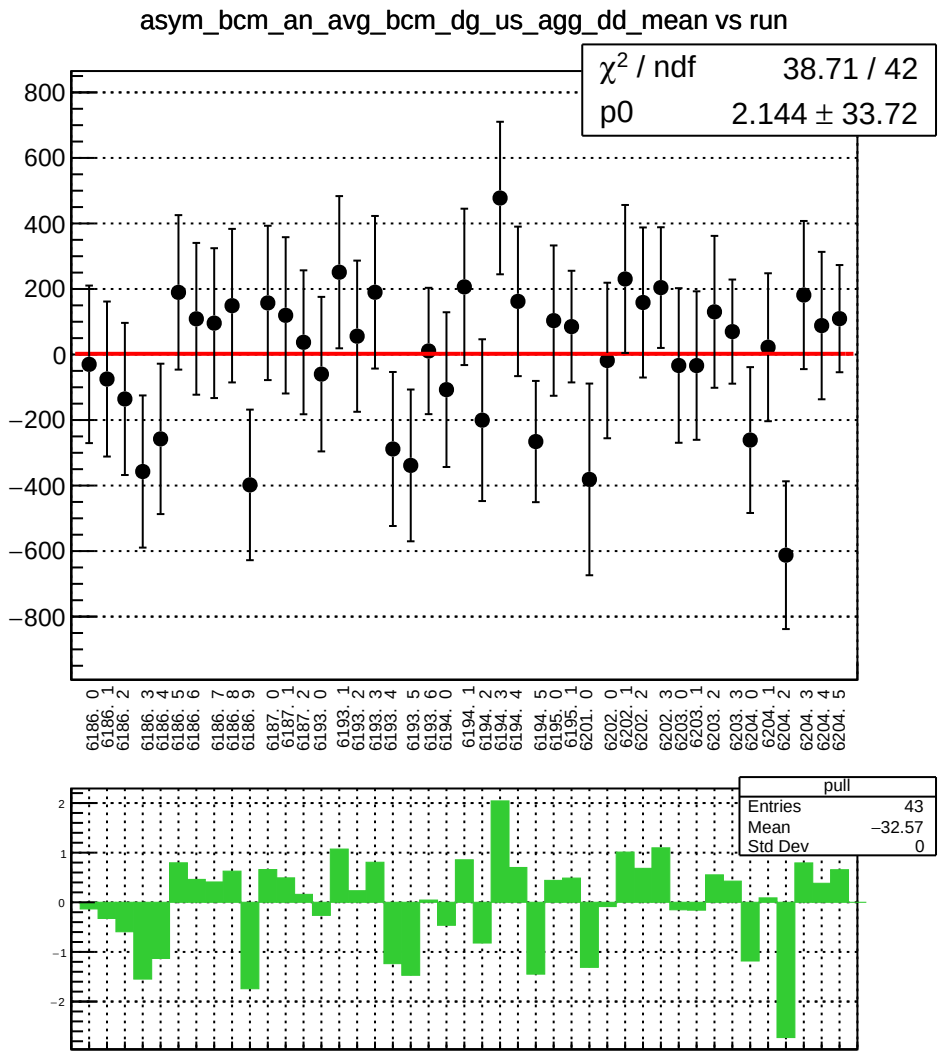

yield_atr2_rms vs run
×10⁻³
χ² / ndf 4.997e+04 / 42
p0 0.0002968 ± 3.328e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

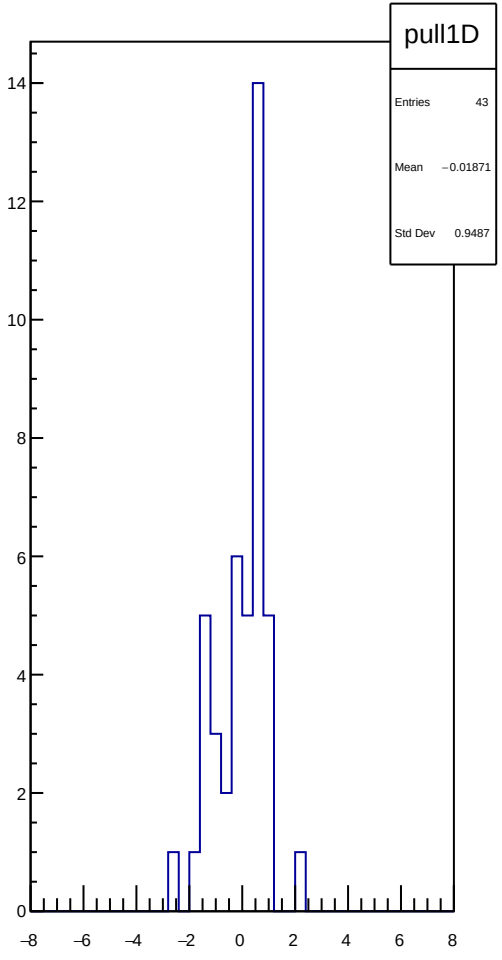

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 47.57 / 42
p0 −224.9 ± 348.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 454.7
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.002064
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

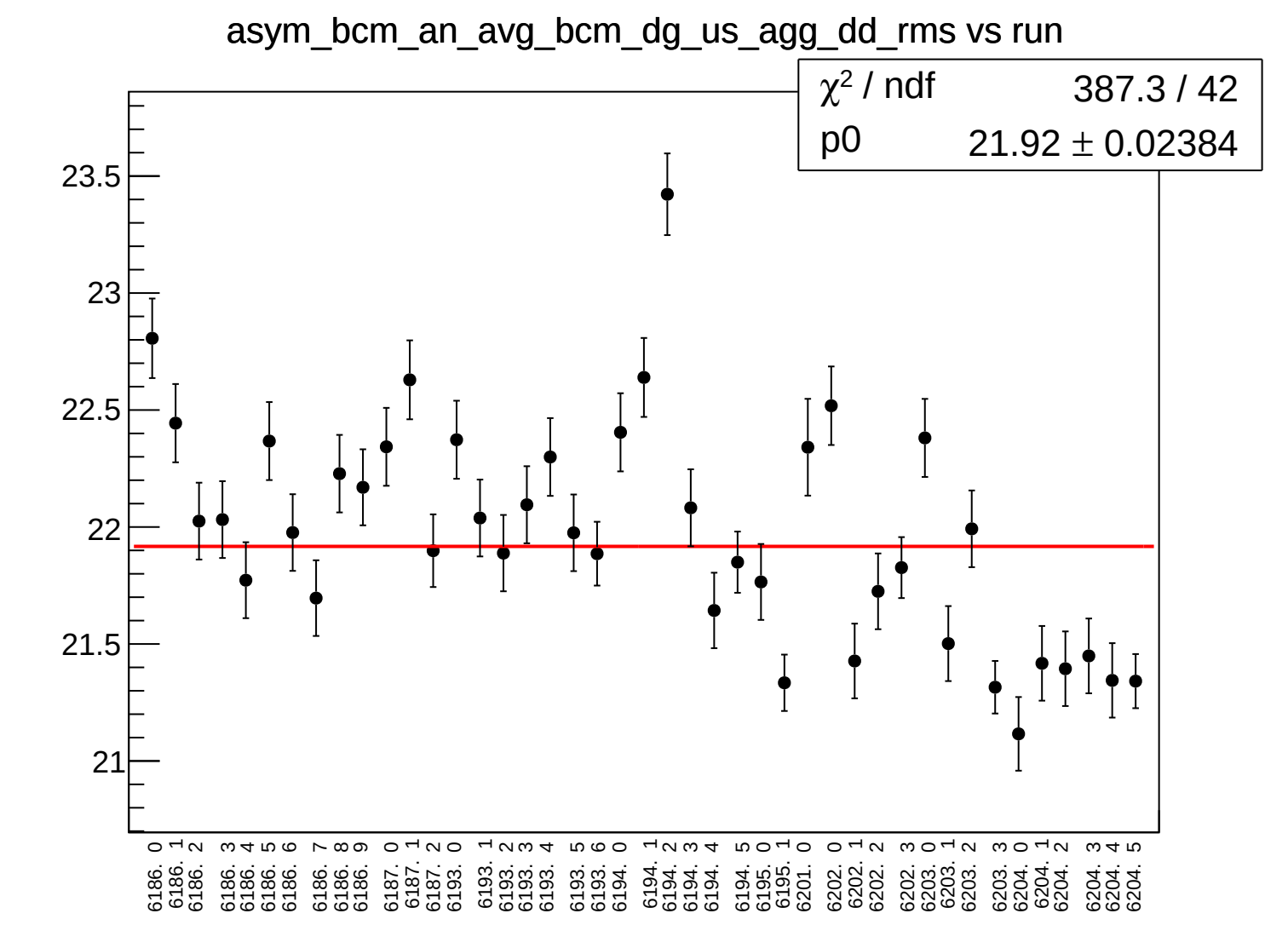

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.226e+04 / 42
p0 220.8 ± 0.2464
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

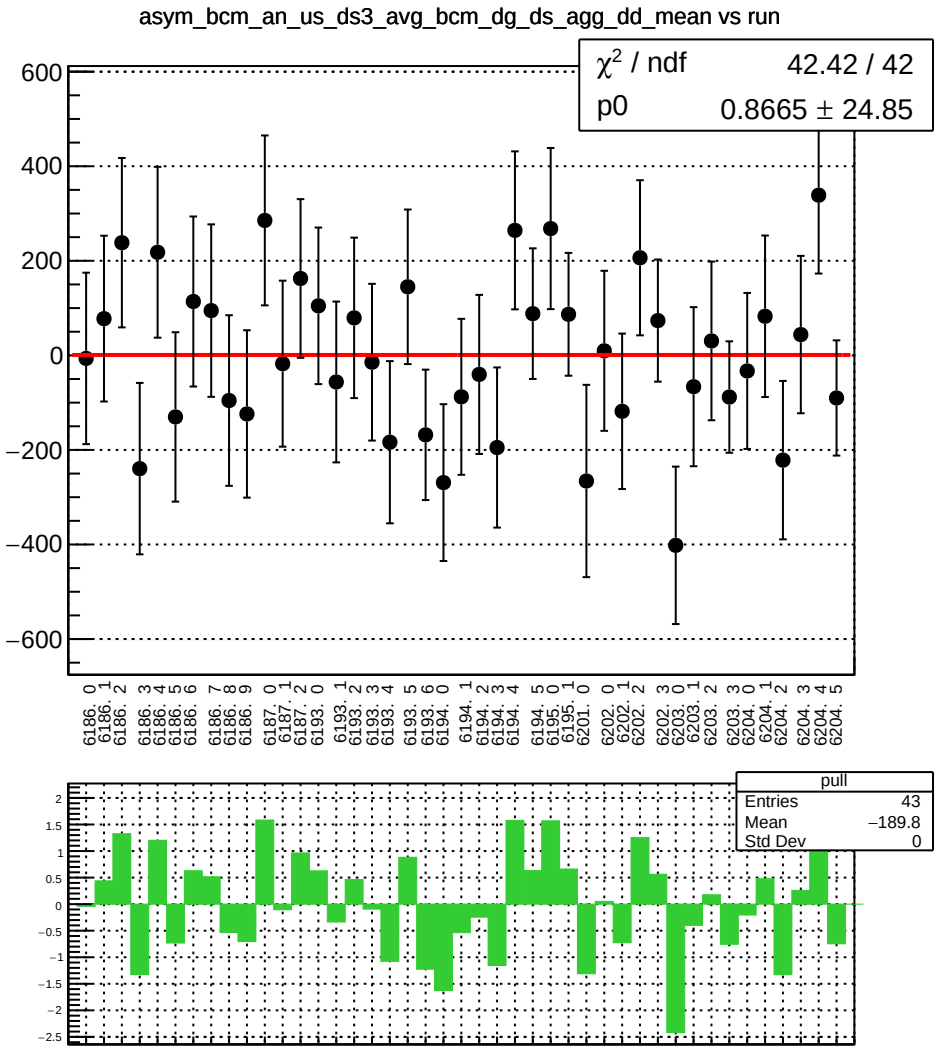

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 41.72 / 42
p0 4.89 ± 24.94
600
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −316
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.002748
Std Dev 0.985
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

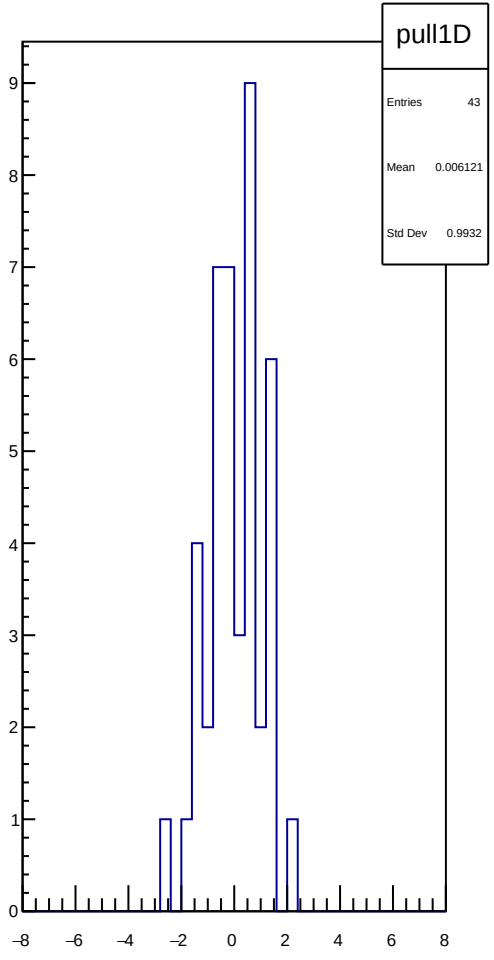

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ^2 / ndf 945.2 / 42
p0 16.21 ± 0.01764
17.5
17
16.5
16
15.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

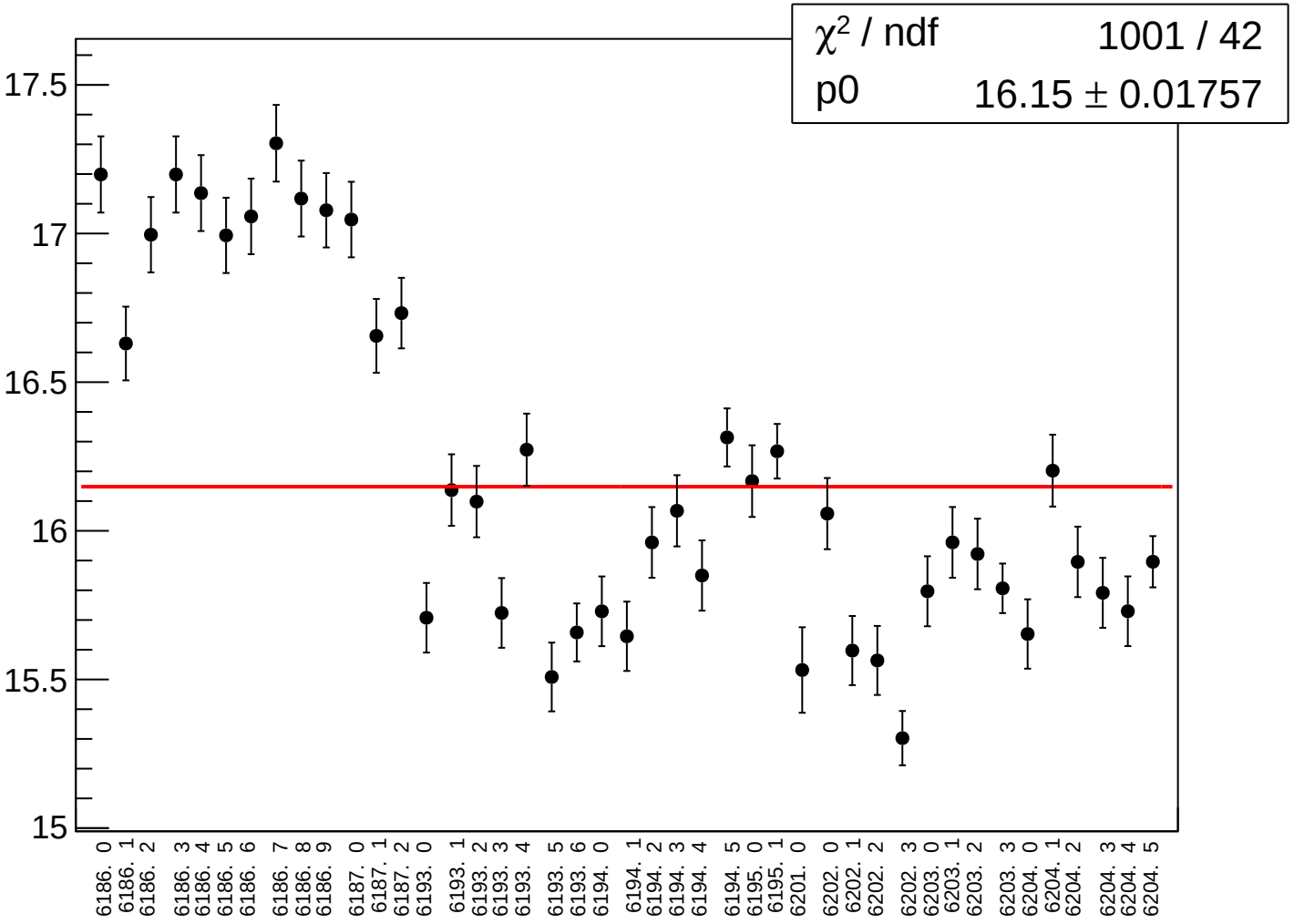

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 38.71 / 42
p0 2.144 ± 33.72
pull
Entries 43
Mean −32.57
Std Dev 0

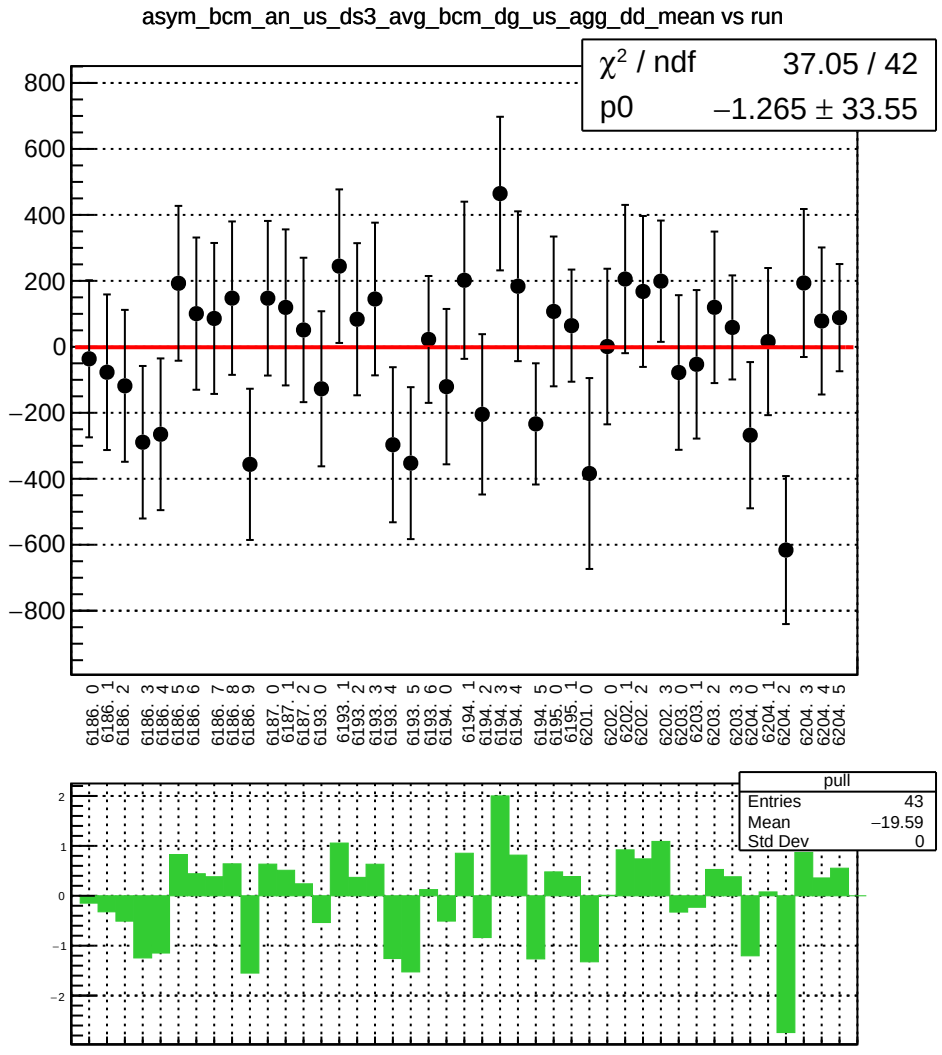

pull1D
Entries 43
Mean −0.01871
Std Dev 0.9487

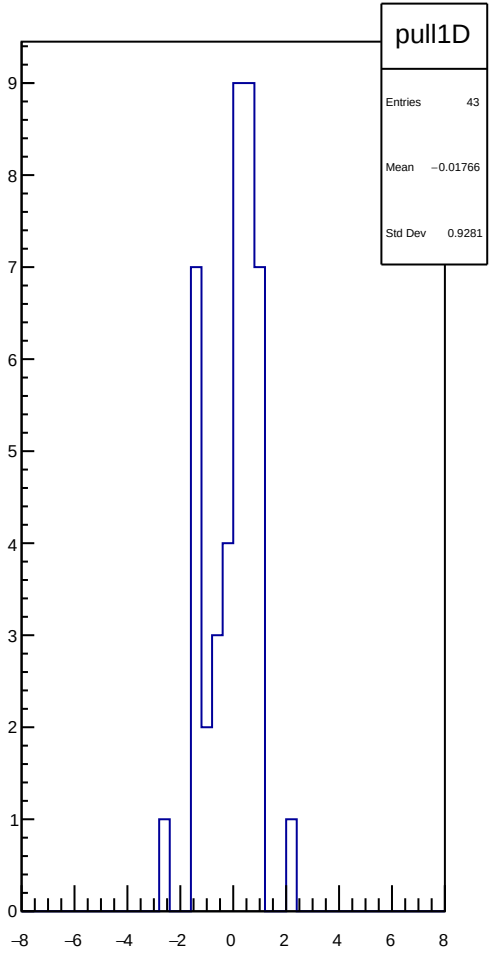

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 387.3 / 42
p0 21.92 ± 0.02384
23.5
23
22.5
22
21.5
21
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

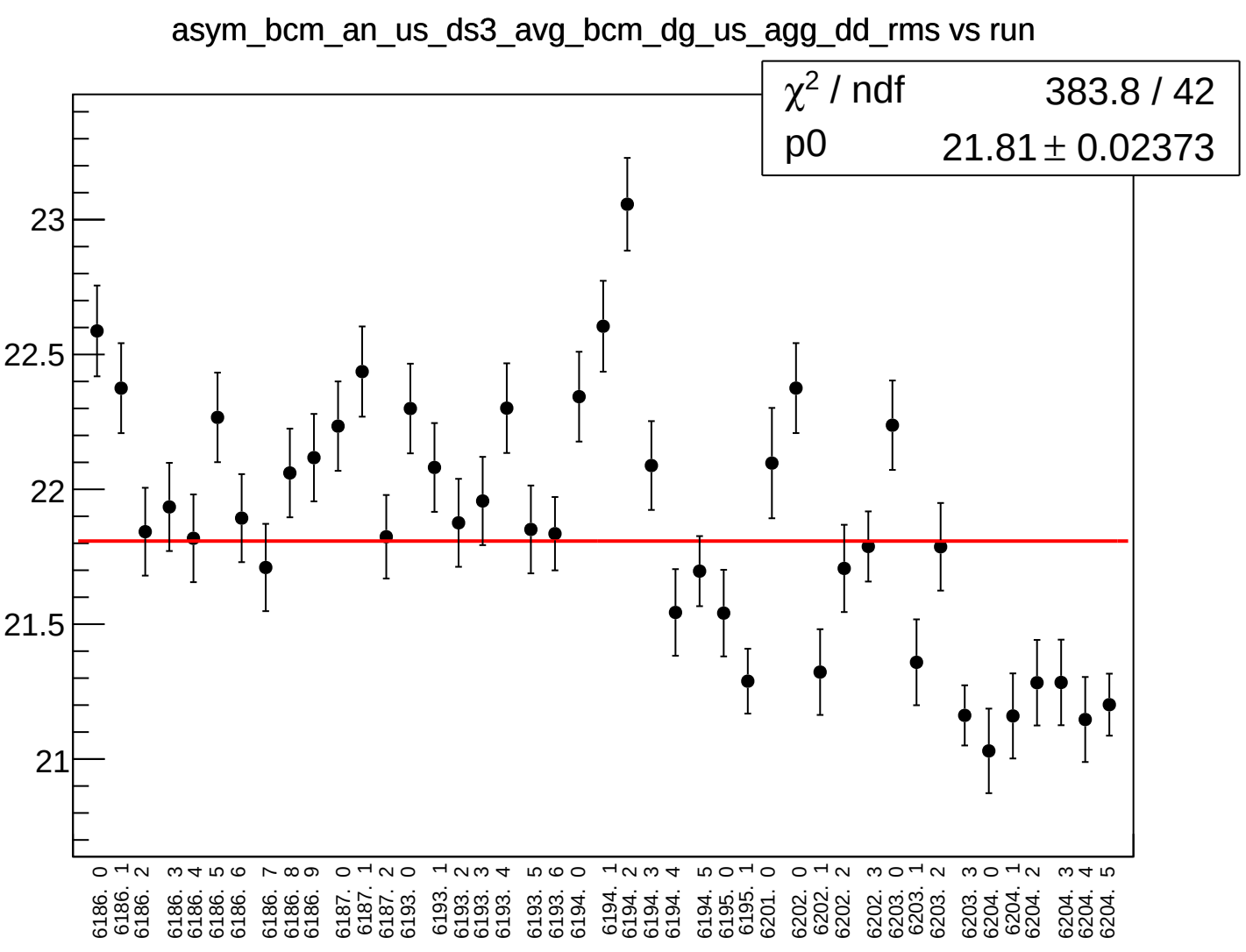

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 42.42 / 42
p0 0.8665 ± 24.85
pull
Entries 43
Mean −189.8
Std Dev 0

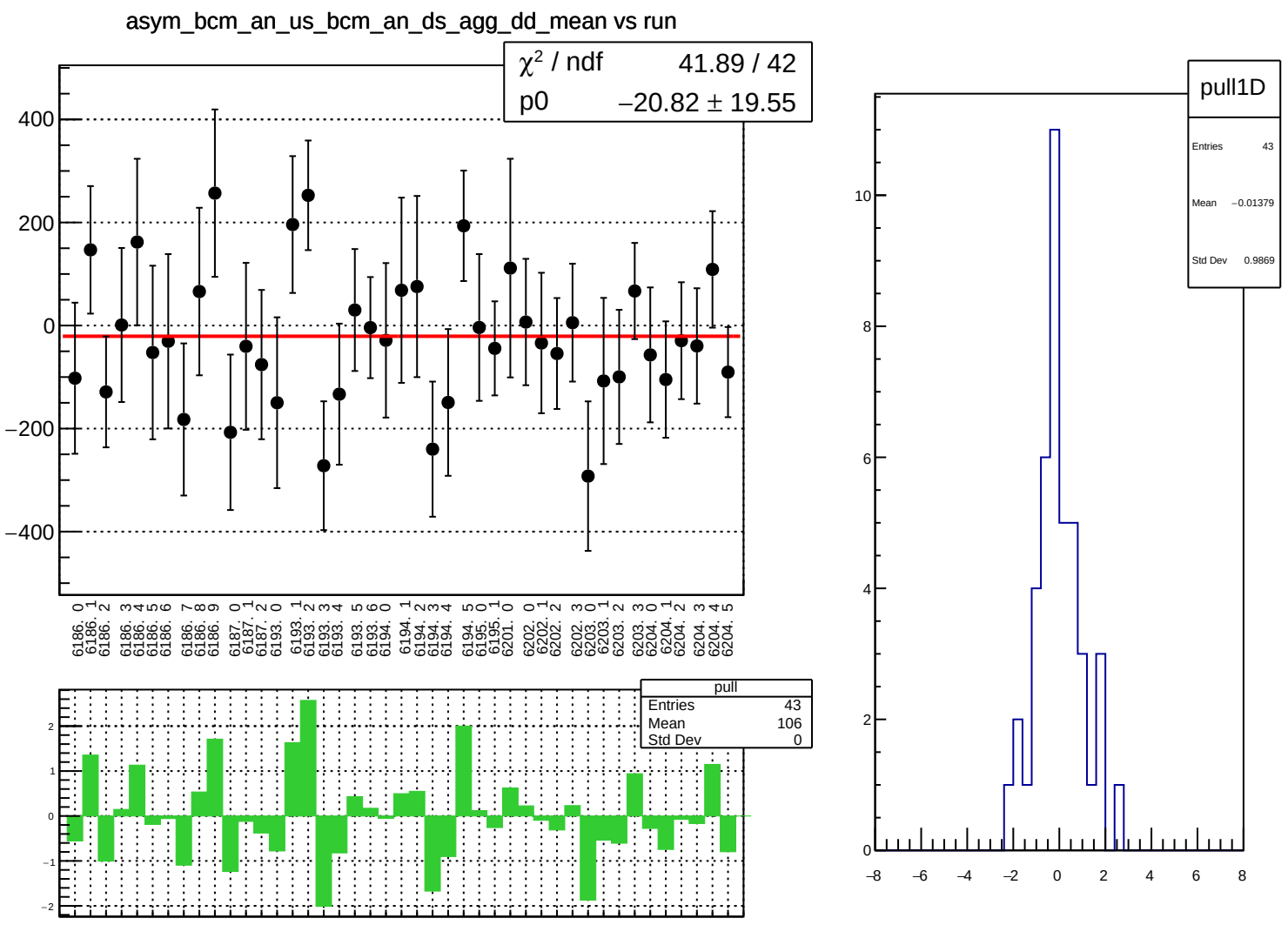

pull1D
Entries 43
Mean 0.006121
Std Dev 0.9932

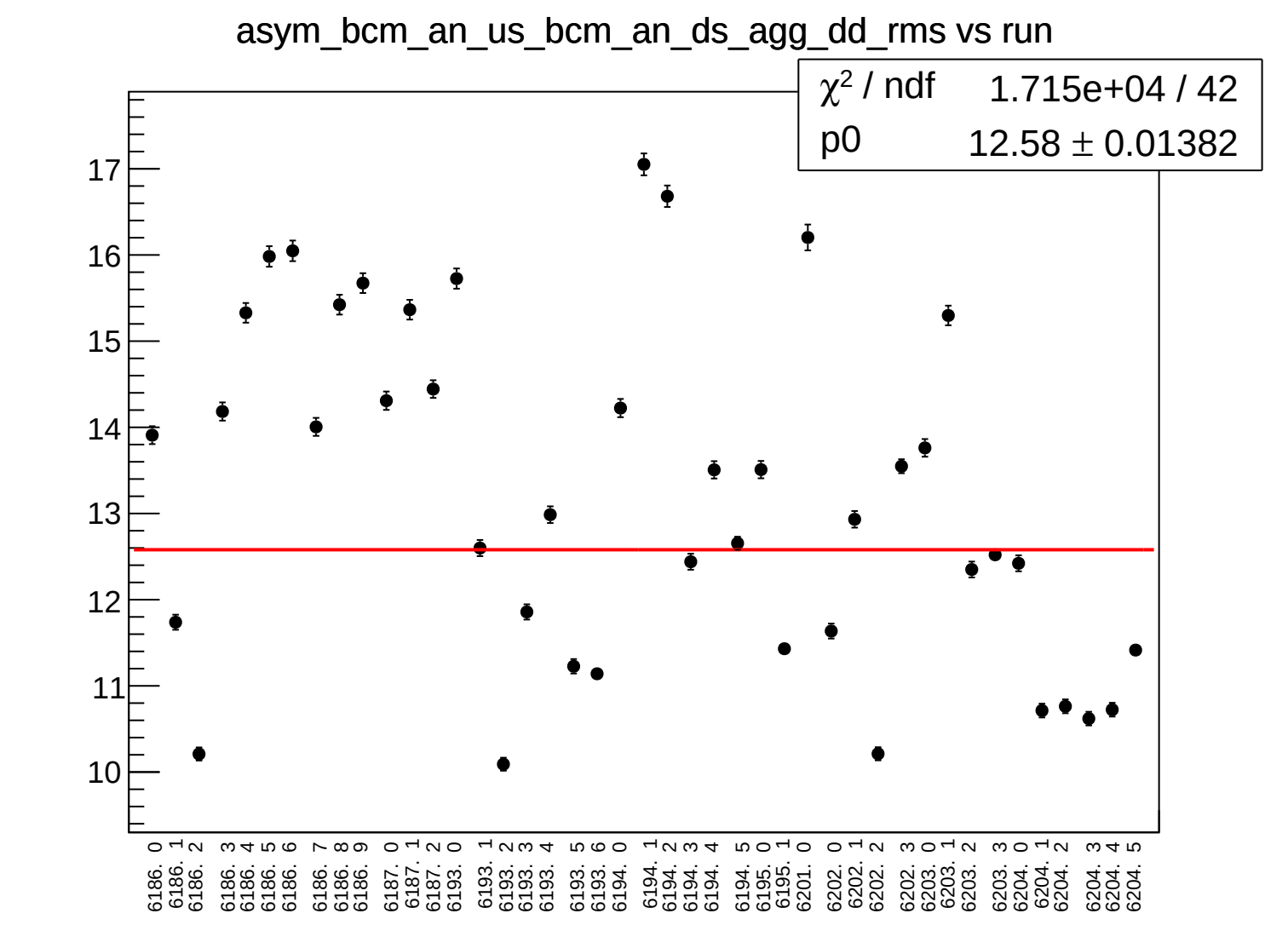

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1001 / 42
p0 16.15 ± 0.01757
17.5
17
16.5
16
15.5
15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

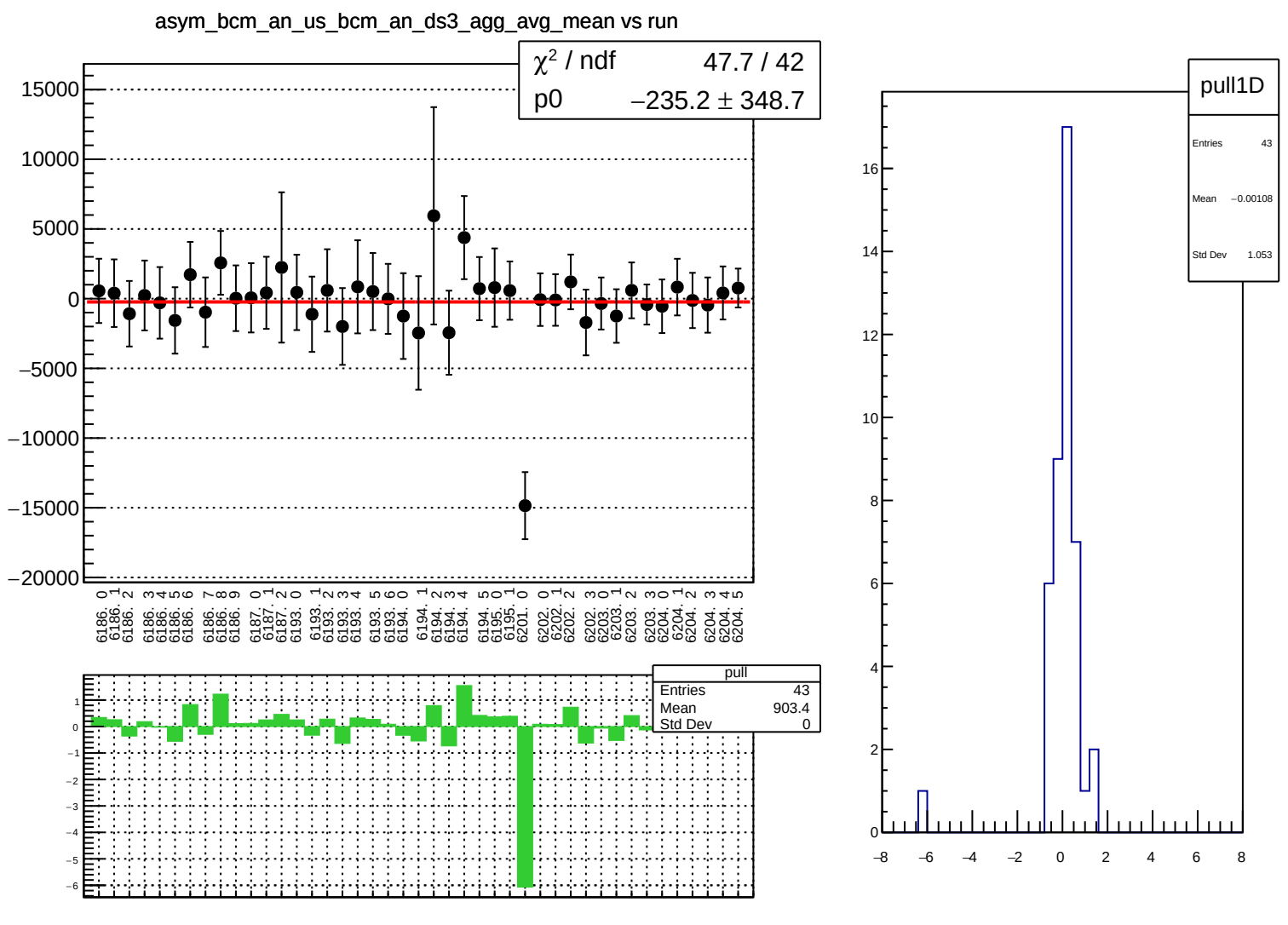

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 37.05 / 42
p0 −1.265 ± 33.55
pull
Entries 43
Mean −19.59
Std Dev 0

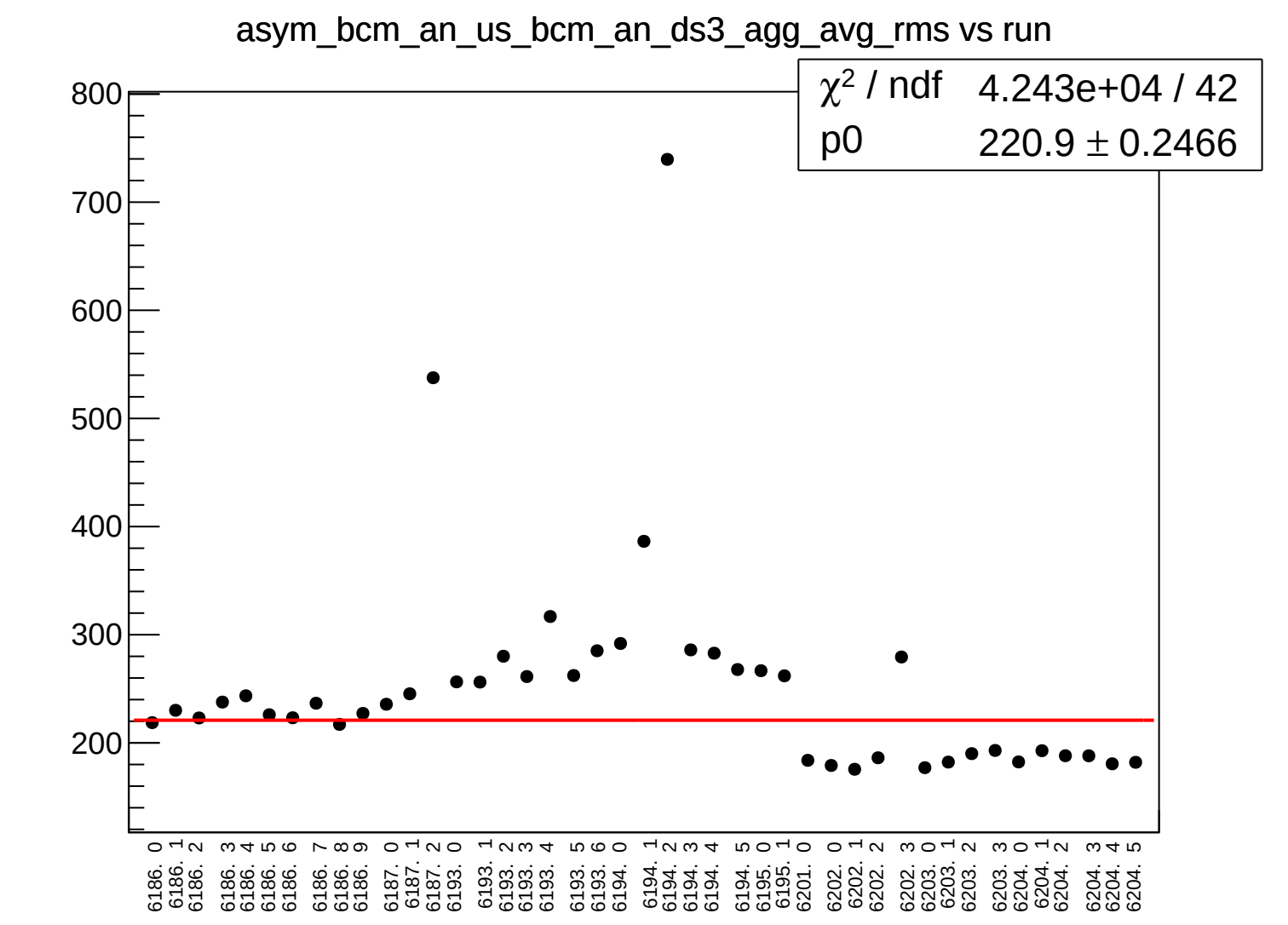

pull1D
Entries 43
Mean −0.01766
Std Dev 0.9281

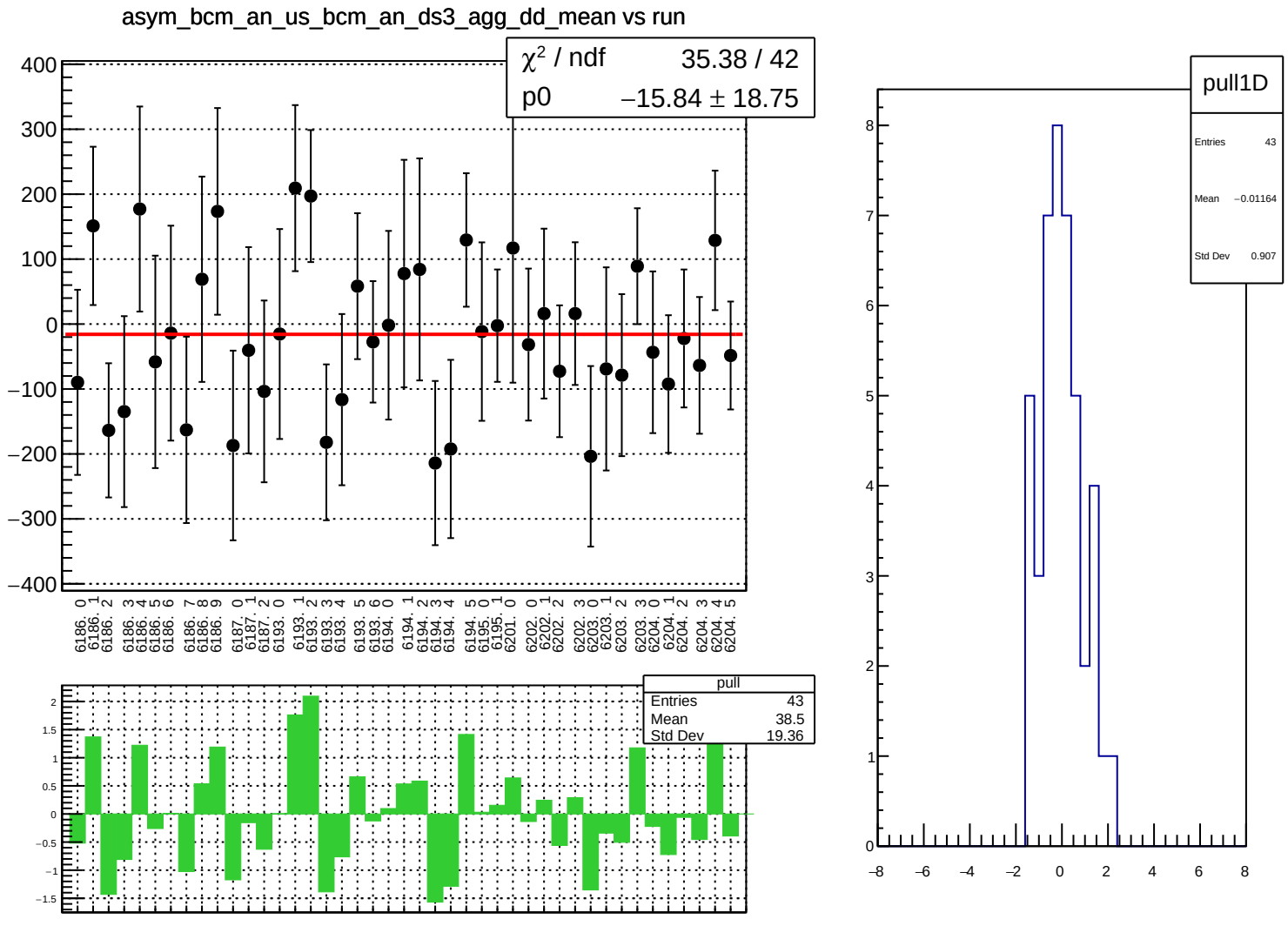

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 383.8 / 42
p0 21.81 ± 0.02373
23
22.5
22
21.5
21
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

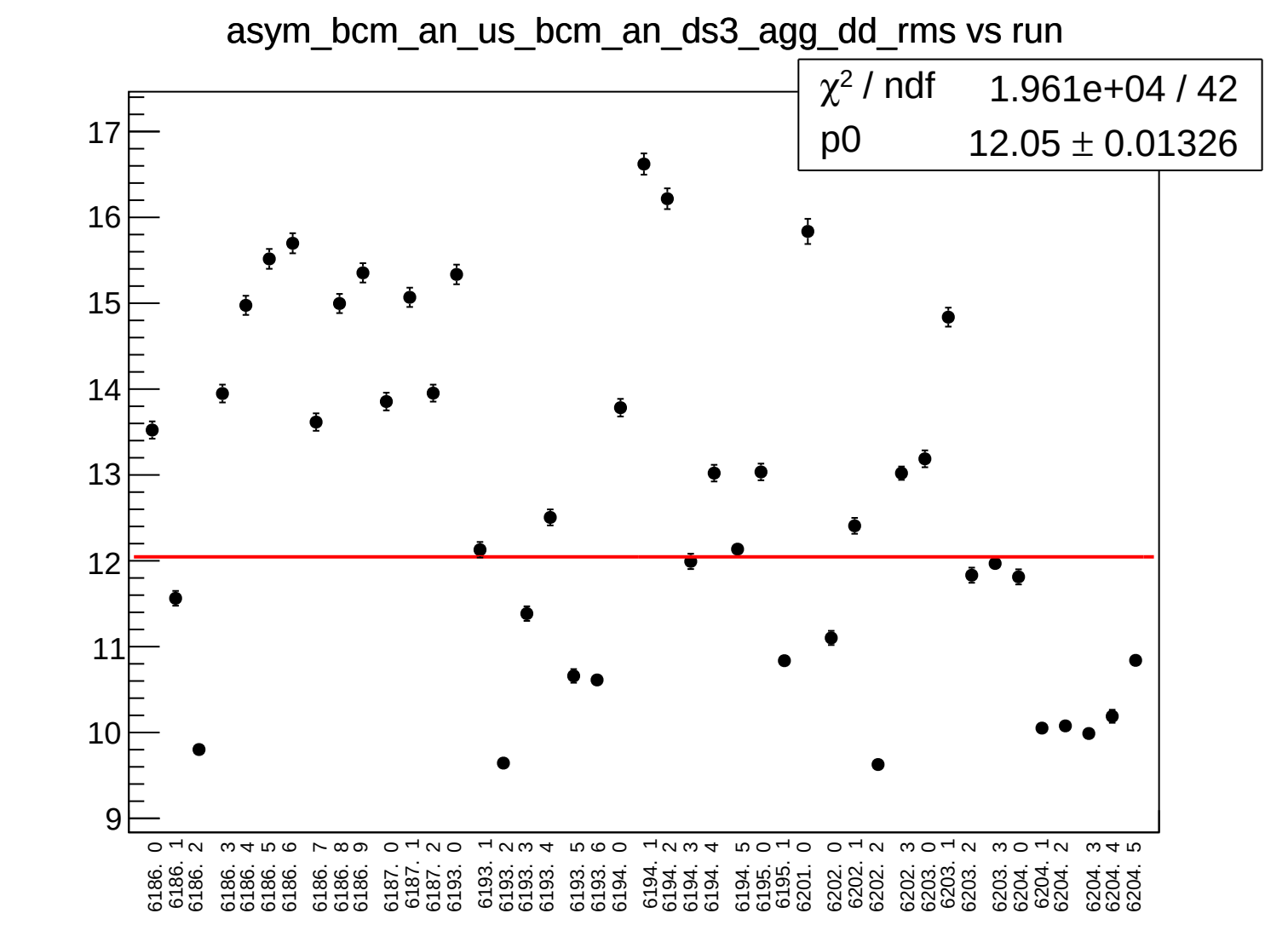

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 41.89 / 42
p0 −20.82 ± 19.55
400
200
0
−200
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 106
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01379
Std Dev 0.9869
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

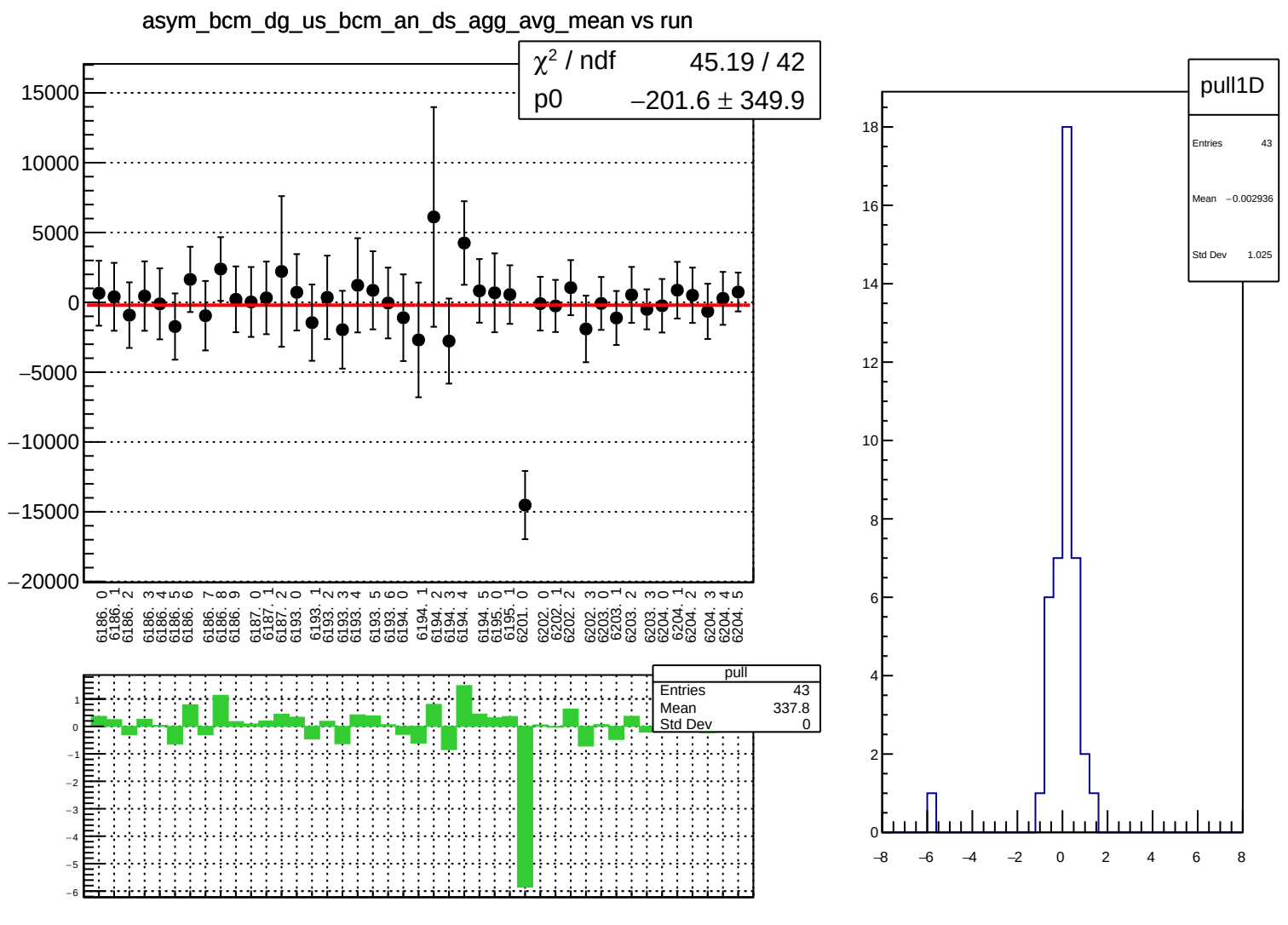

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.715e+04 / 42
p0 12.58 ± 0.01382
17
16
15
14
13
12
11
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

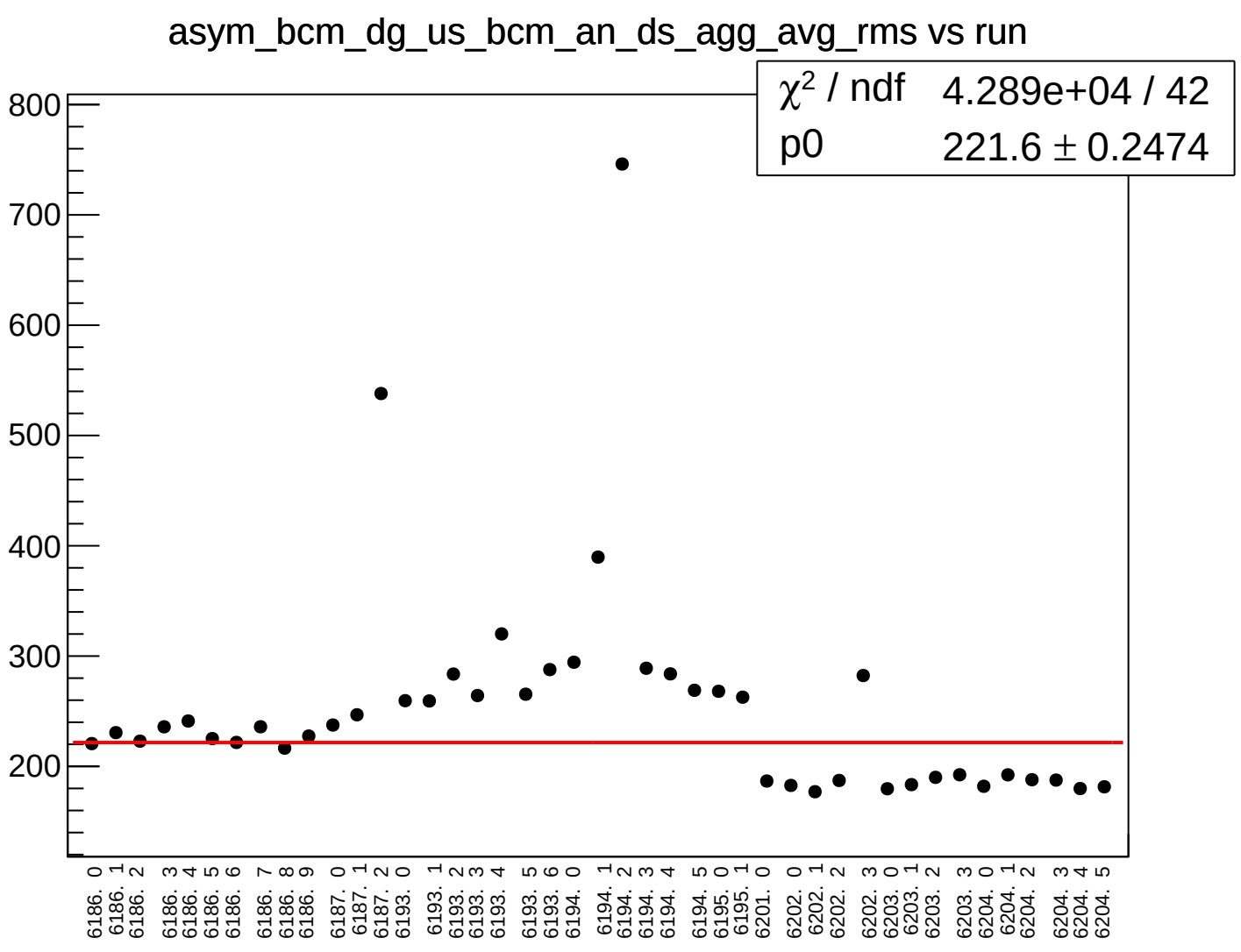

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 47.7 / 42
p0 −235.2 ± 348.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 903.4
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.00108
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

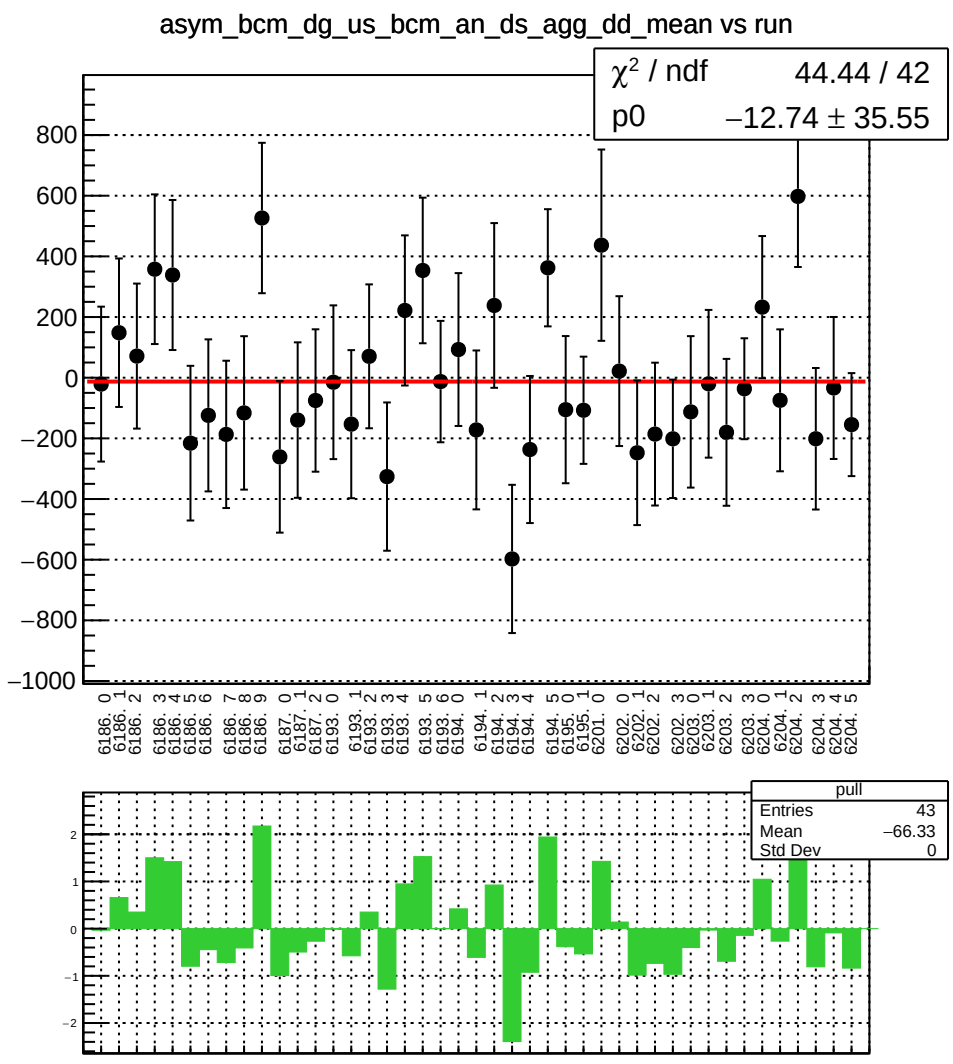

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4.243e+04 / 42
p0 220.9 ± 0.2466
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

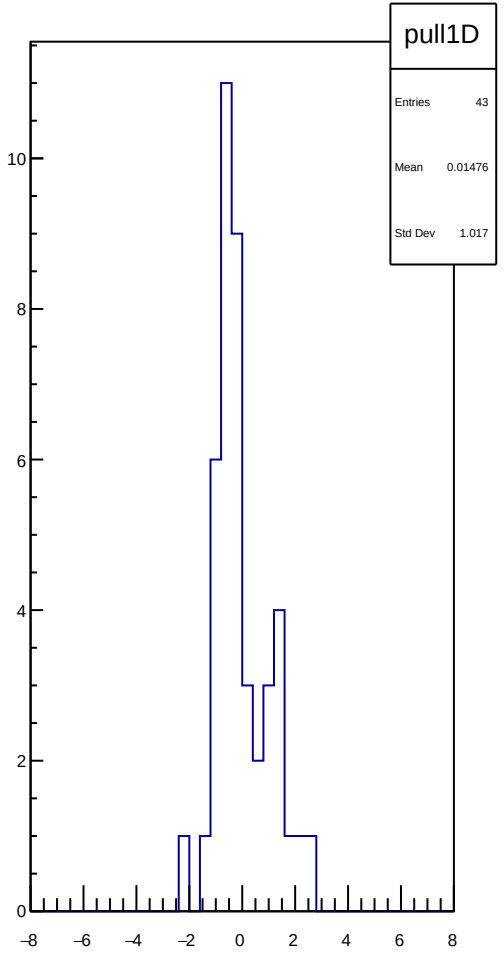

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 35.38 / 42
p0 −15.84 ± 18.75
400
300
200
100
0
−100
−200
−300
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 38.5
Std Dev 19.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01164
Std Dev 0.907
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

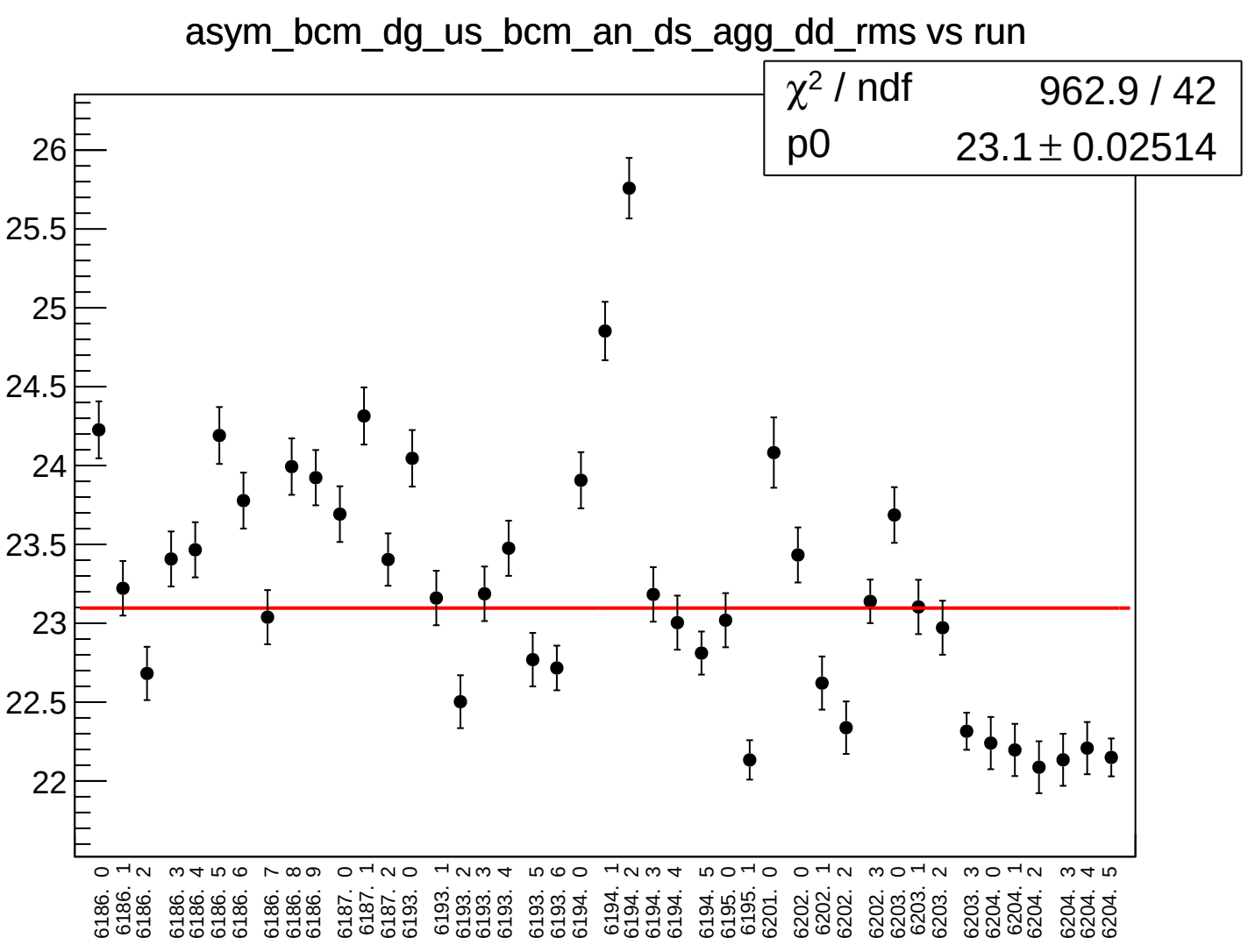

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.961e+04 / 42
p0 12.05 ± 0.01326
17
16
15
14
13
12
11
10
9
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

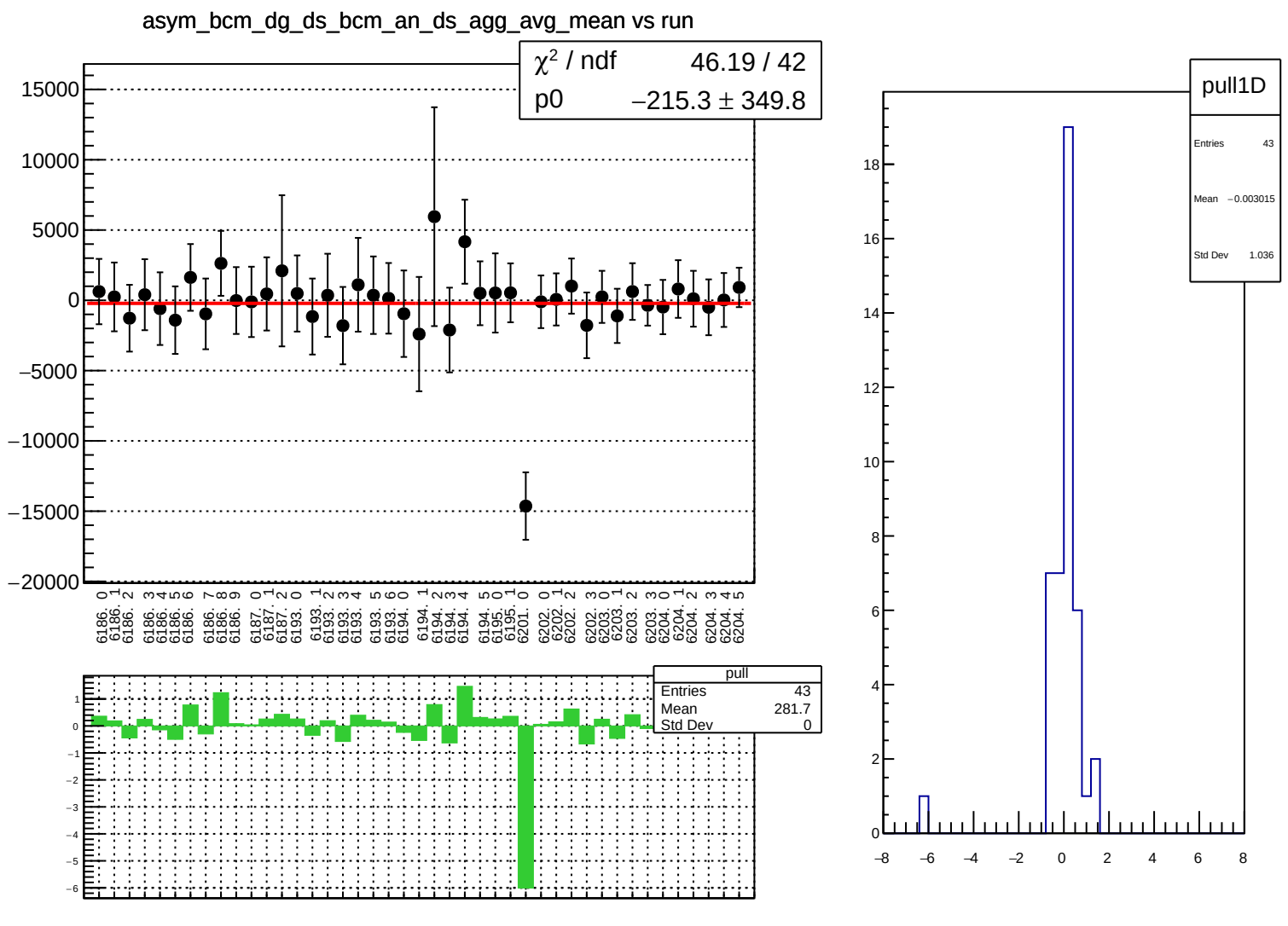

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 45.19 / 42
p0 −201.6 ± 349.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 337.8
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.002936
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

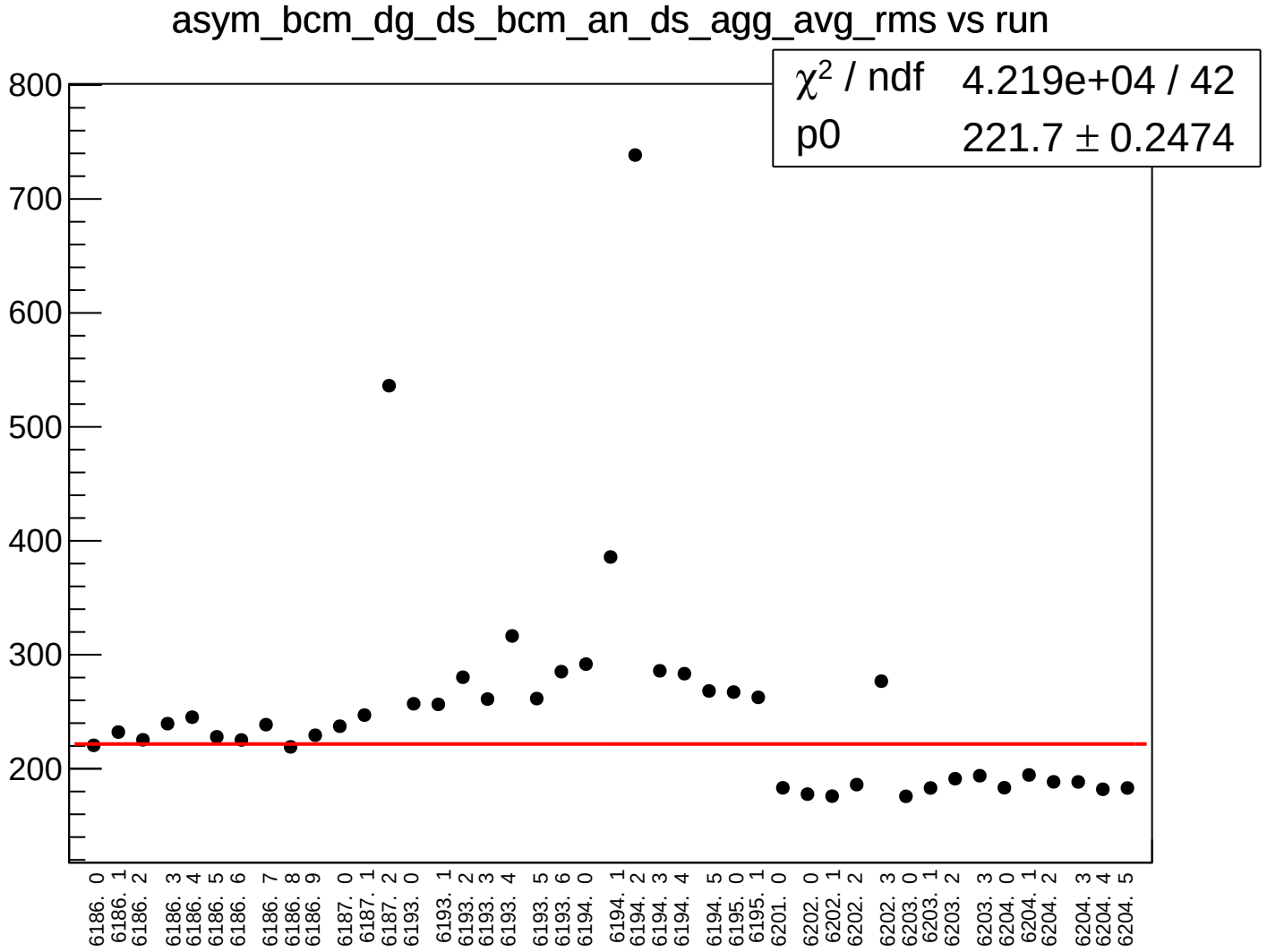

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.289e+04 / 42
p0 221.6 ± 0.2474
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

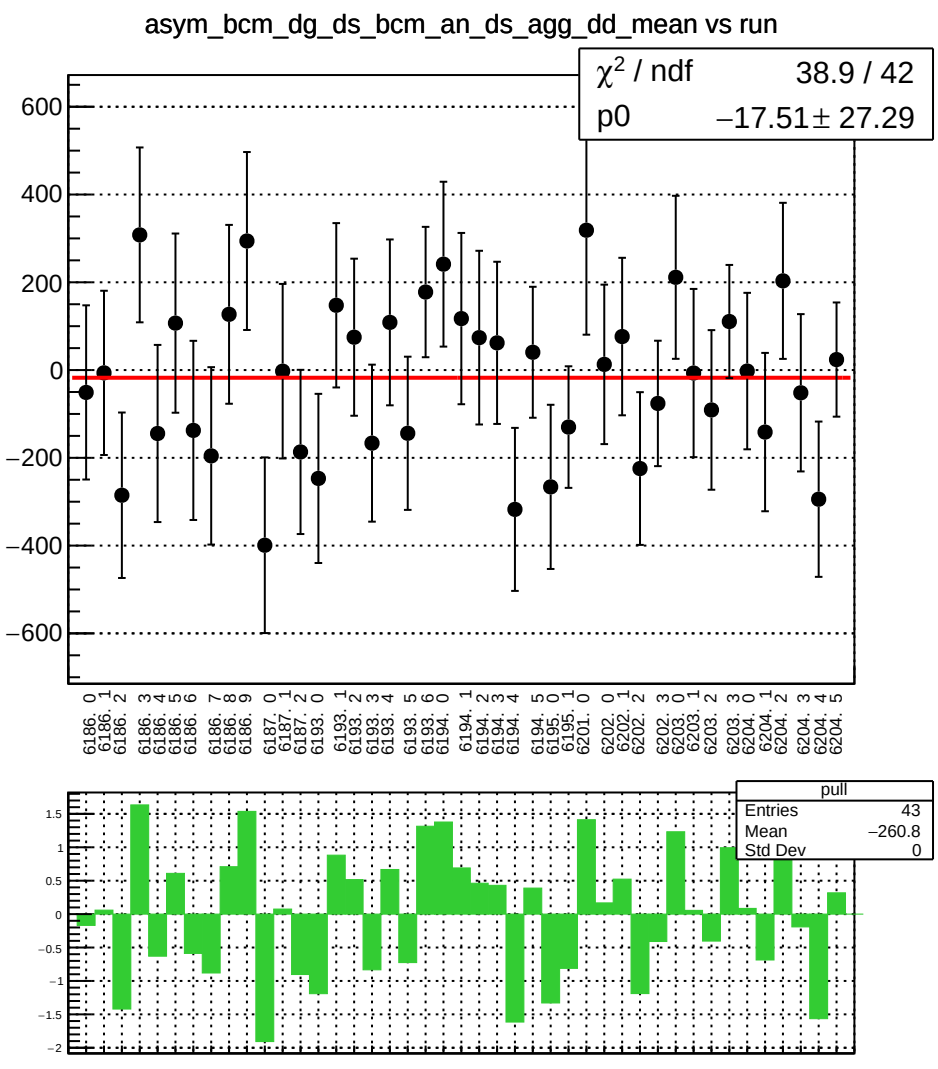

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 44.44 / 42
p0 −12.74 ± 35.55
800
600
400
200
0
−200
−400
−600
−800
−1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −66.33
Std Dev 0
2
1
0
−1
−2

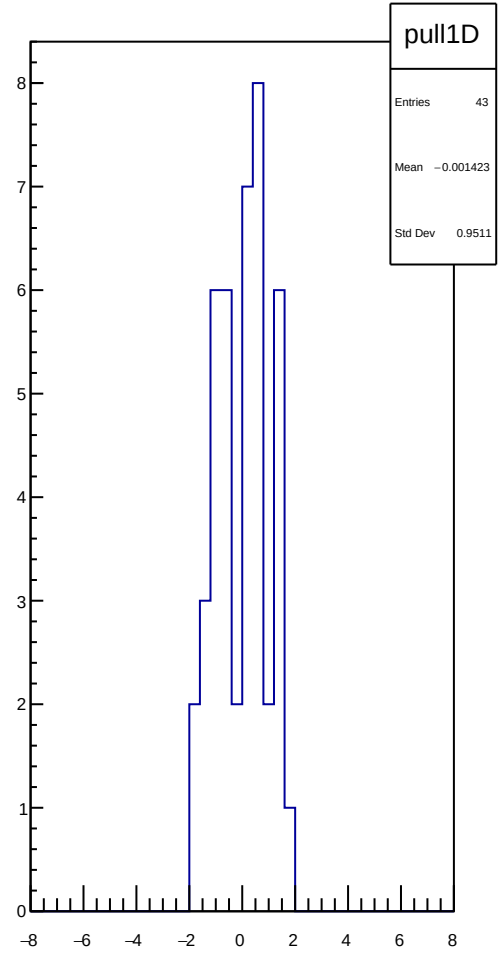

pull1D
Entries 43
Mean 0.01476
Std Dev 1.017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

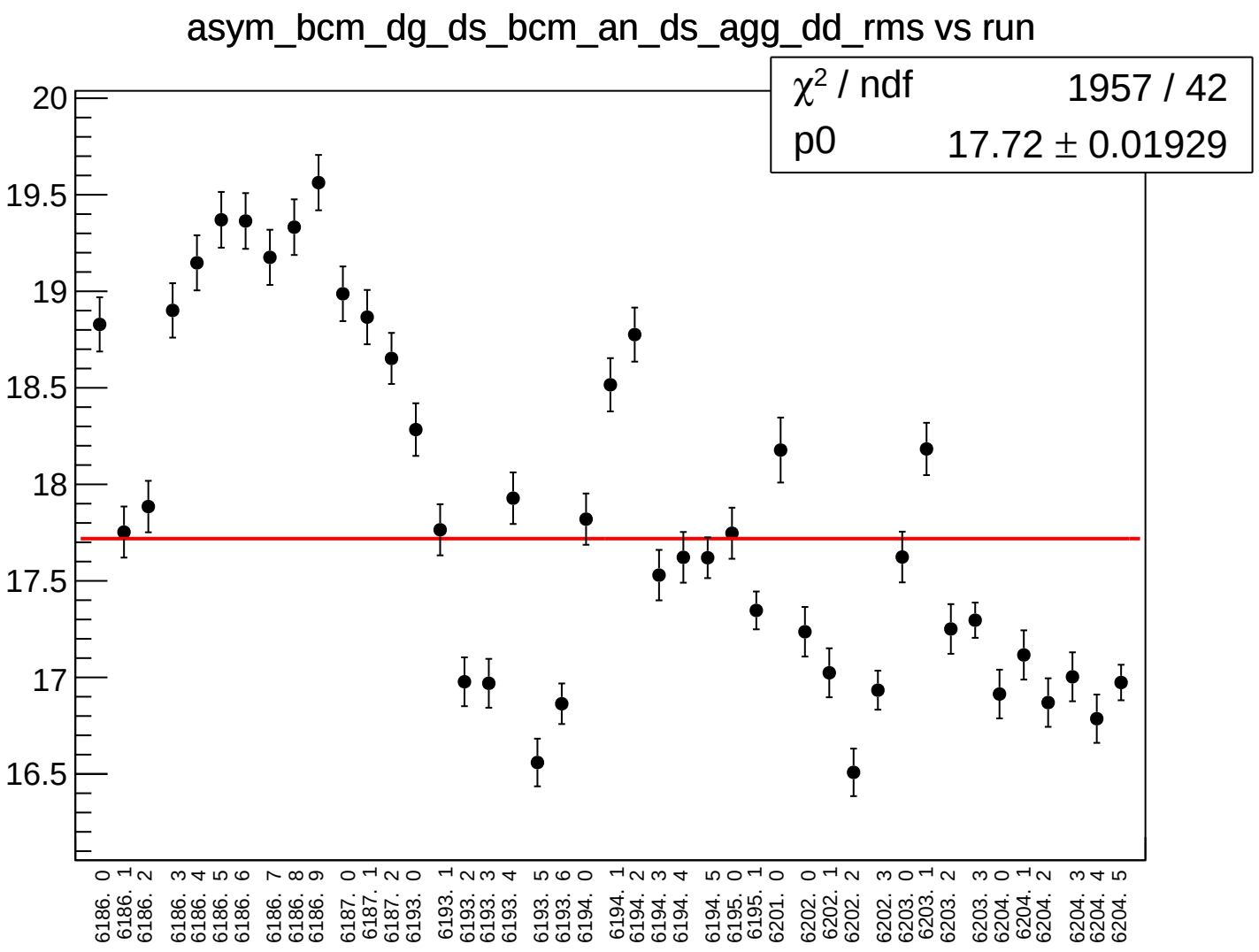

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 962.9 / 42
p0 23.1 ± 0.02514
26
25.5
25
24.5
24
23.5
23
22.5
22
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

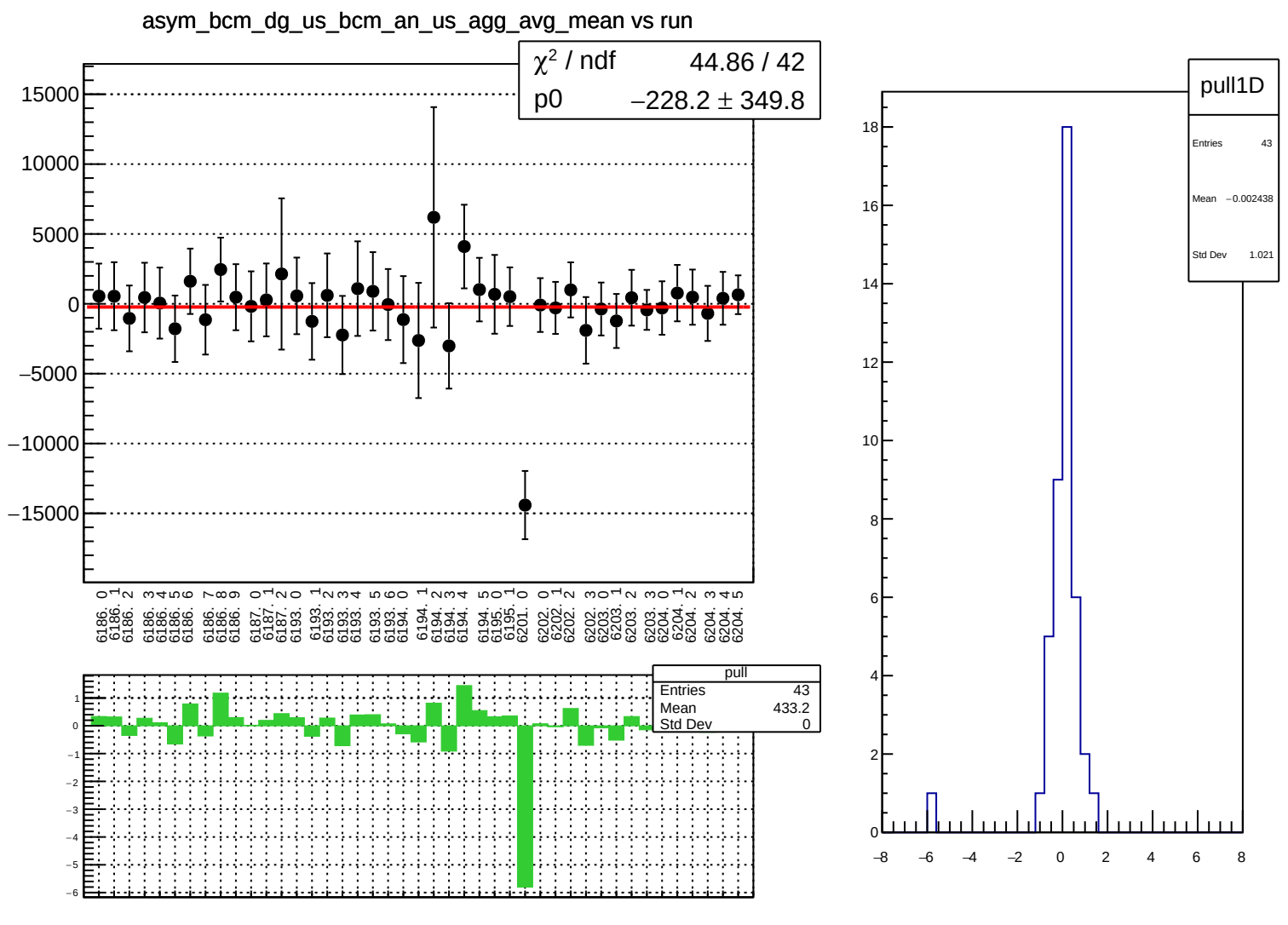

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 46.19 / 42
p0 −215.3 ± 349.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 281.7
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.003015
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

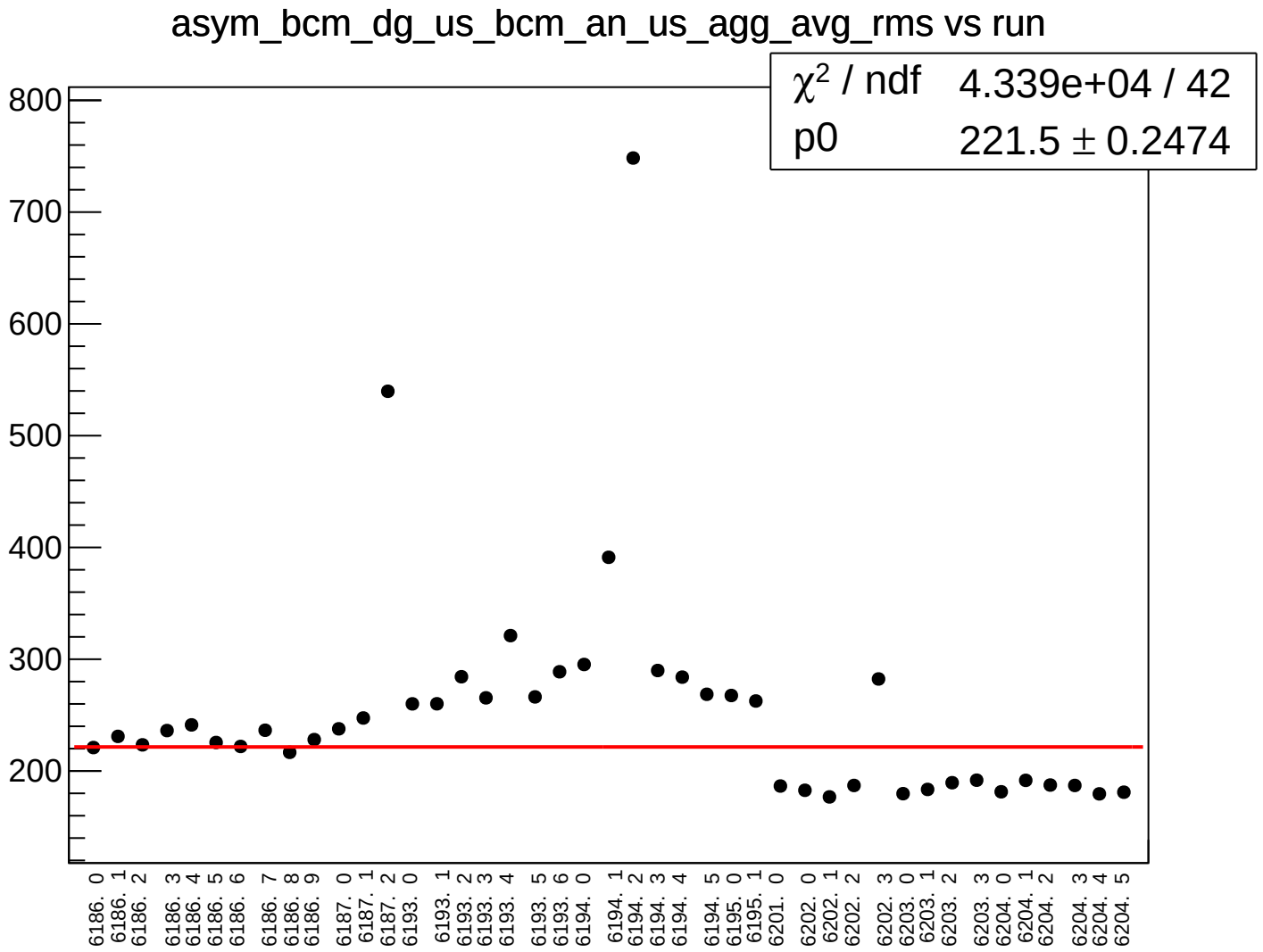

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.219e+04 / 42
p0 221.7 ± 0.2474
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

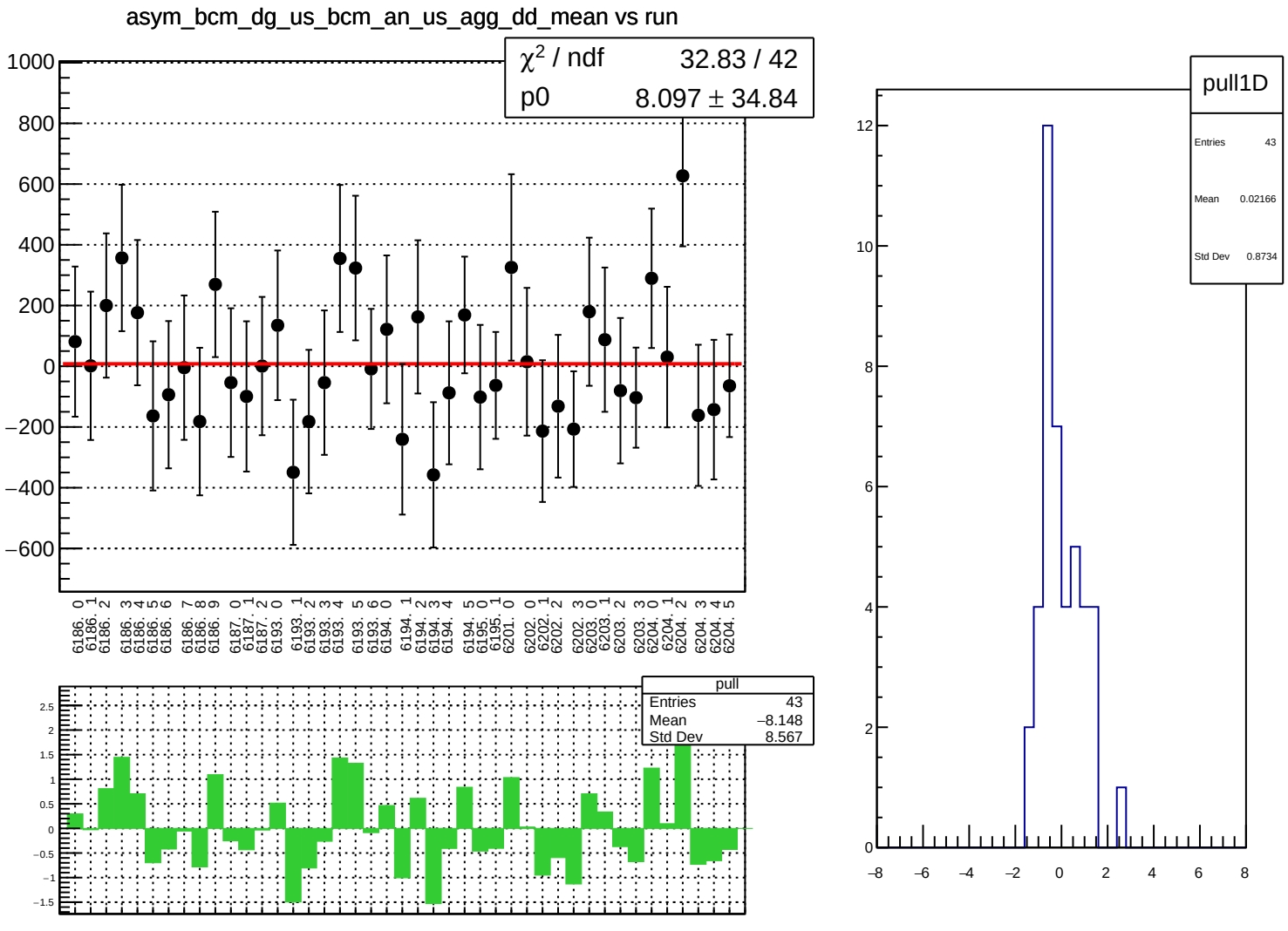

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 38.9 / 42
p0 −17.51± 27.29
pull
Entries 43
Mean −260.8
Std Dev 0

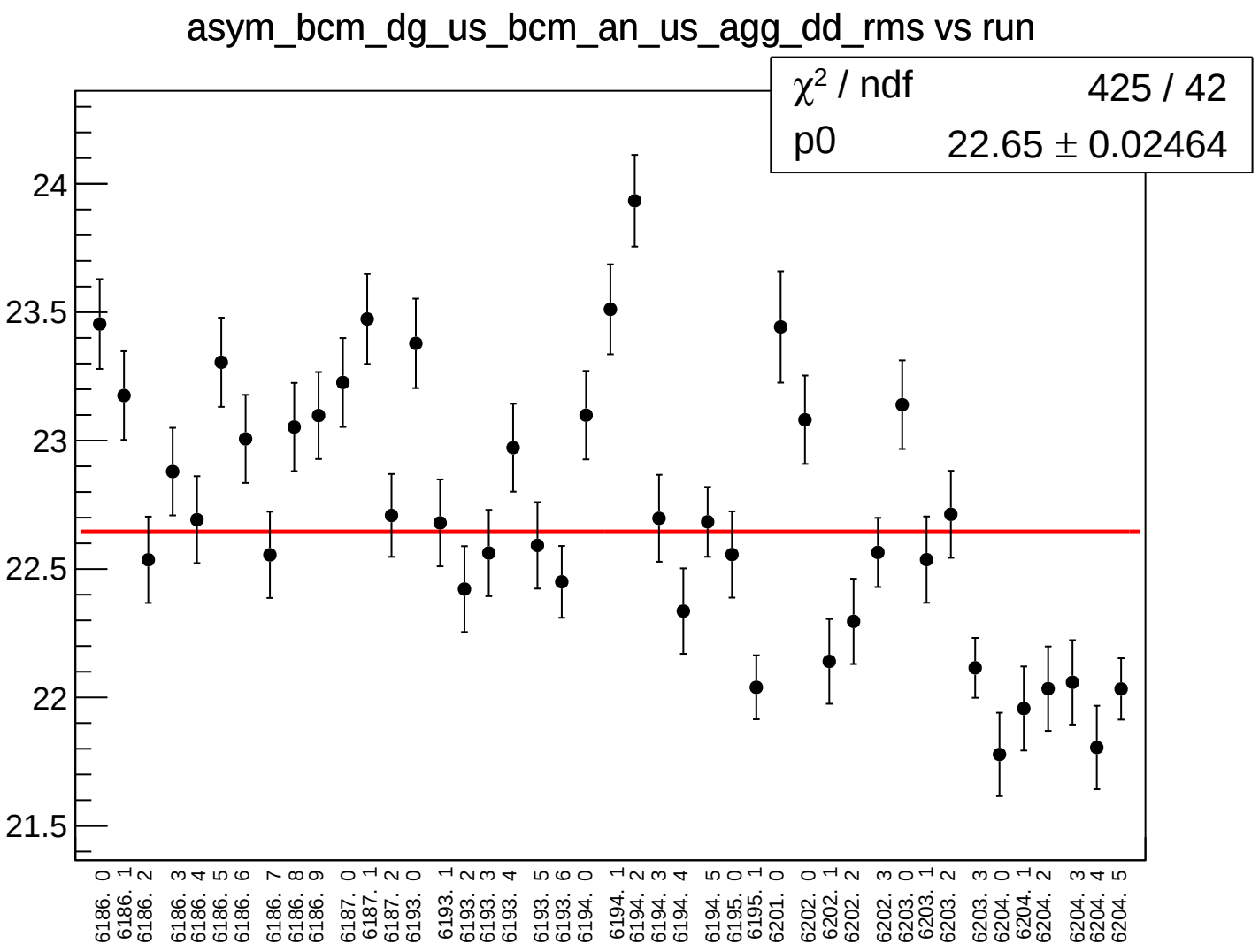

pull1D
Entries 43
Mean −0.001423
Std Dev 0.9511

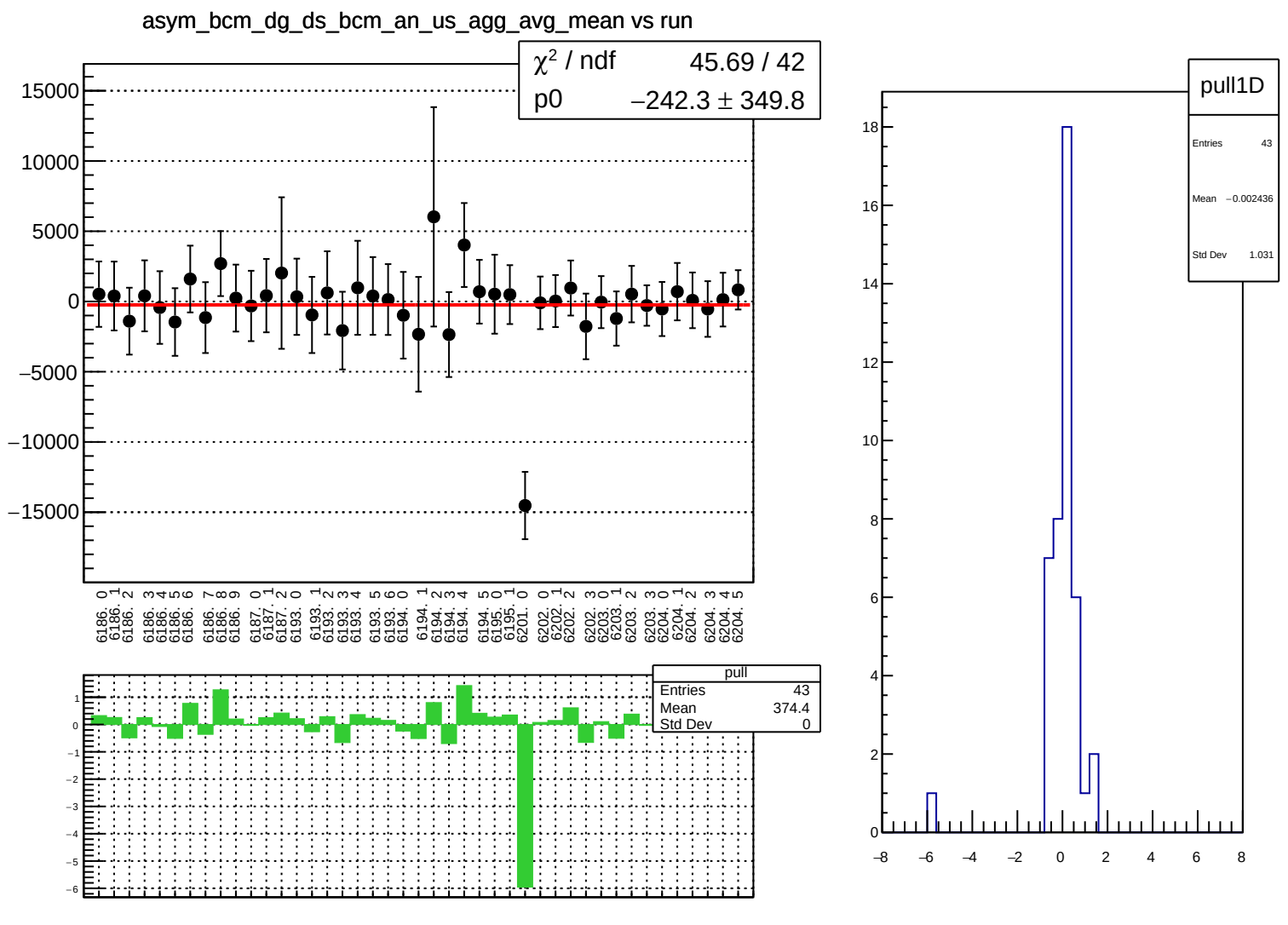

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1957 / 42
p0 17.72 ± 0.01929
20
19.5
19
18.5
18
17.5
17
16.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

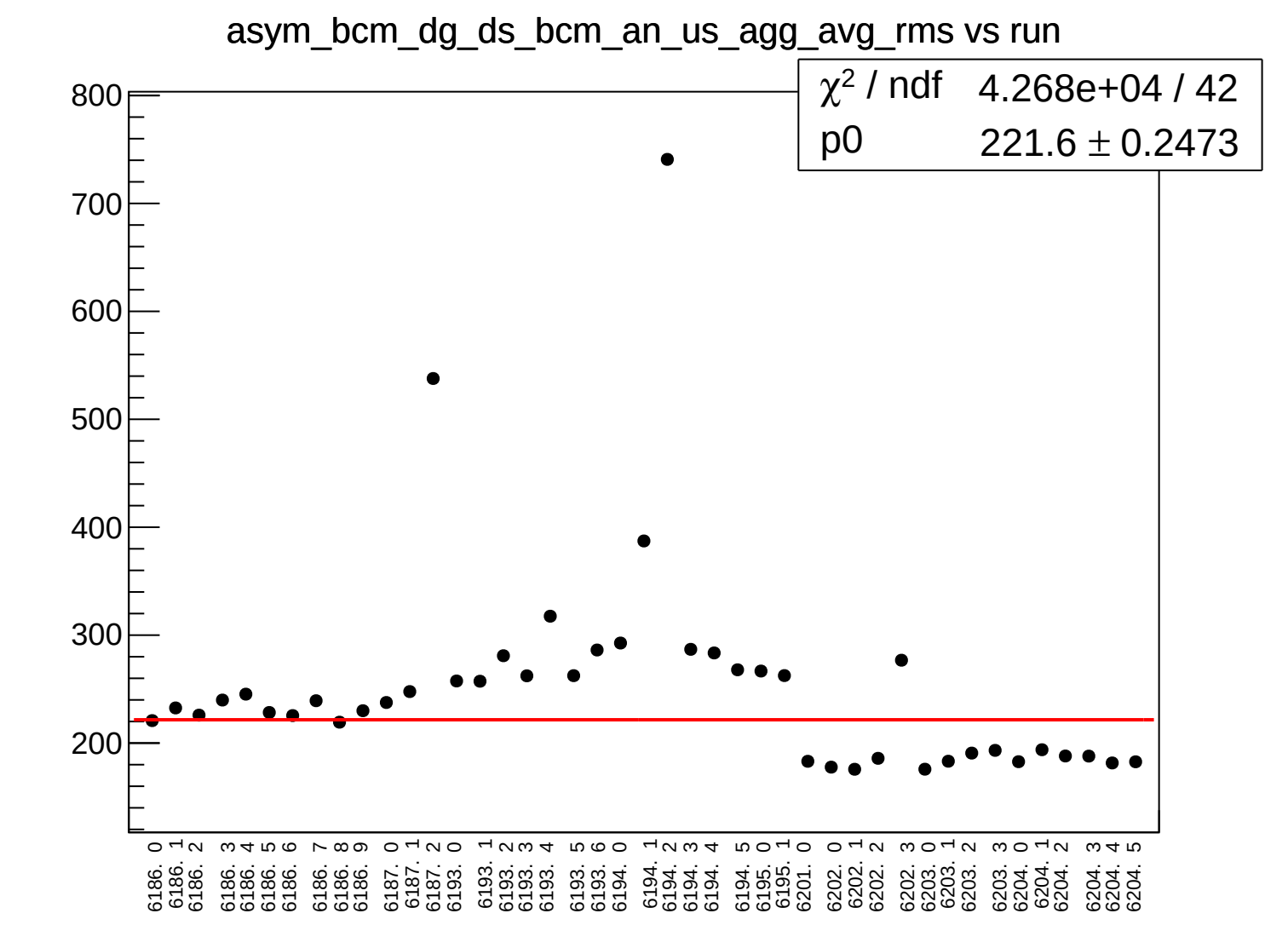

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 44.86 / 42
p0 −228.2 ± 349.8
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 433.2
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.002438
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

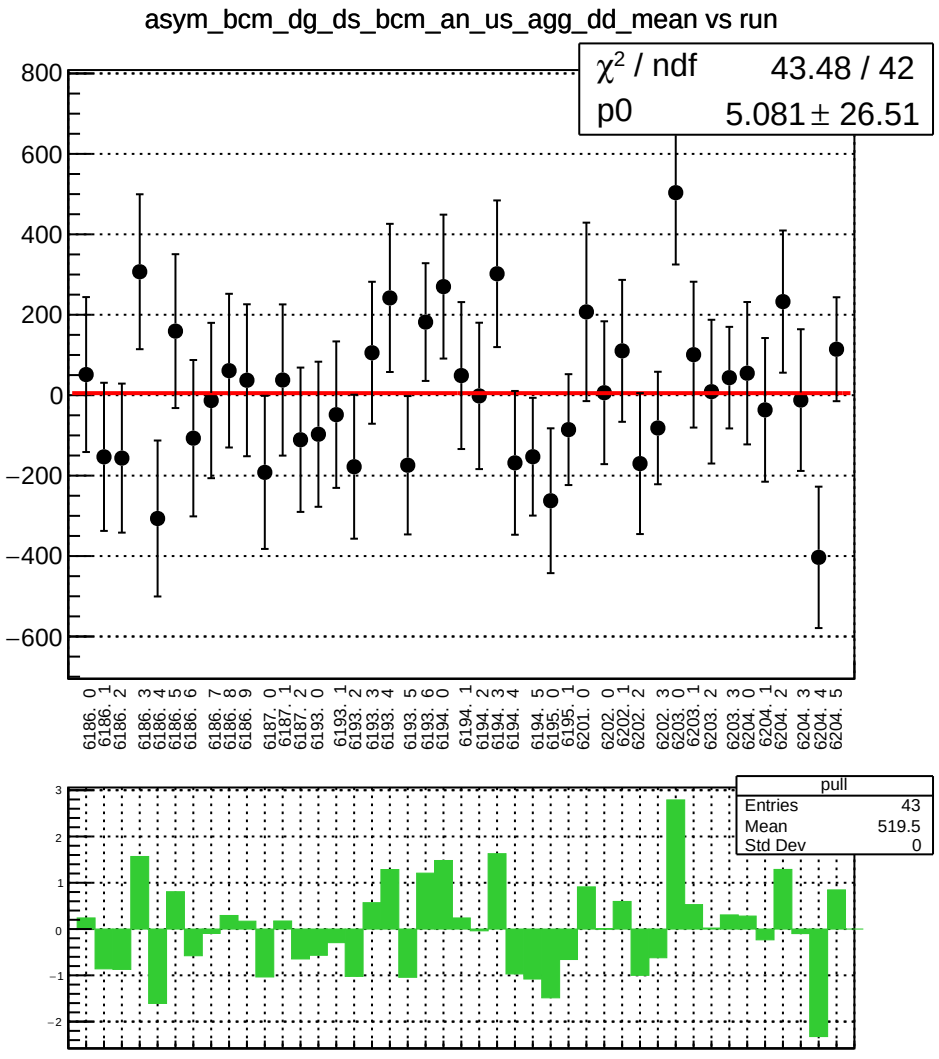

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.339e+04 / 42
p0 221.5 ± 0.2474
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

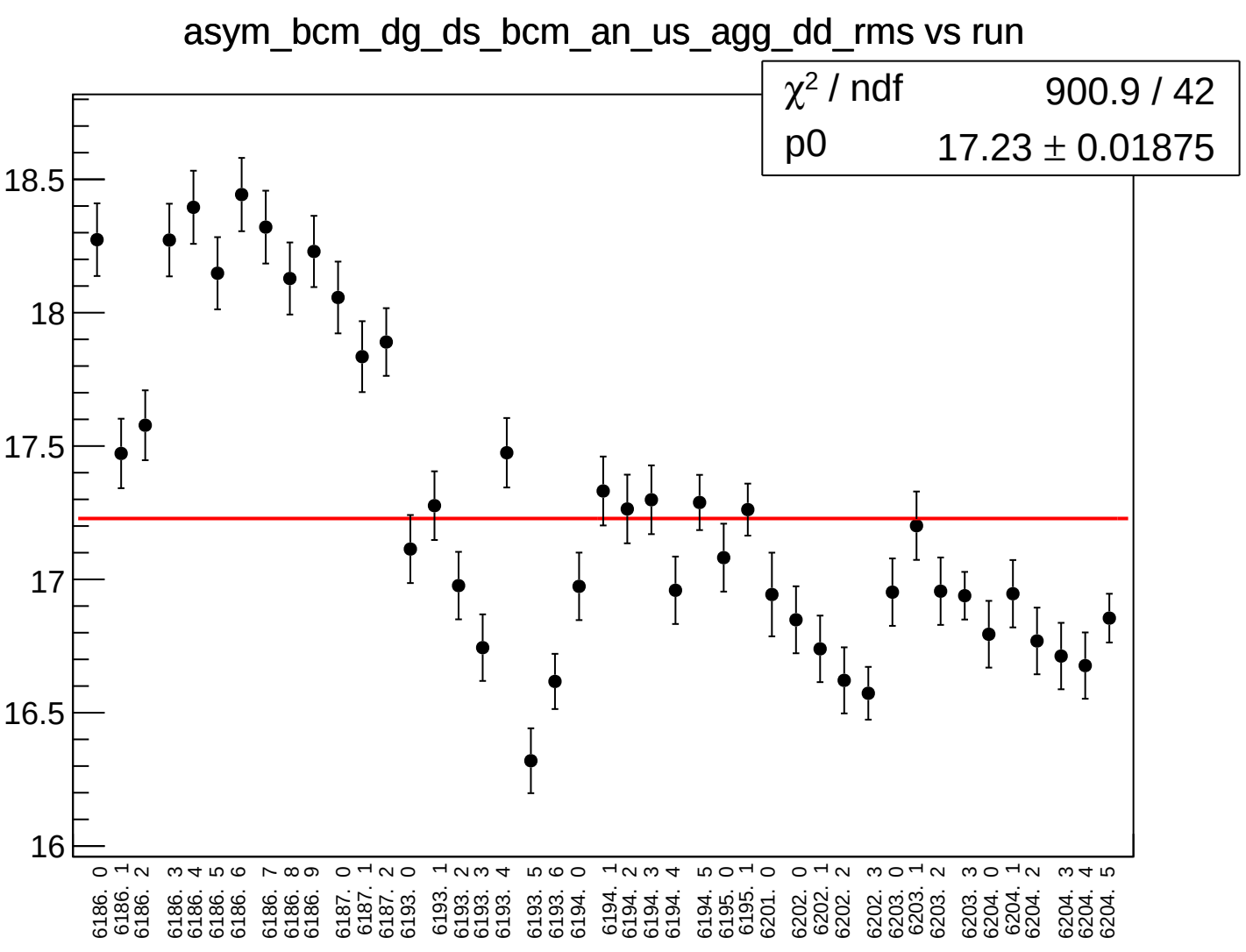

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 32.83 / 42
p0 8.097 ± 34.84
pull
Entries 43
Mean −8.148
Std Dev 8.567
pull1D
Entries 43
Mean 0.02166
Std Dev 0.8734

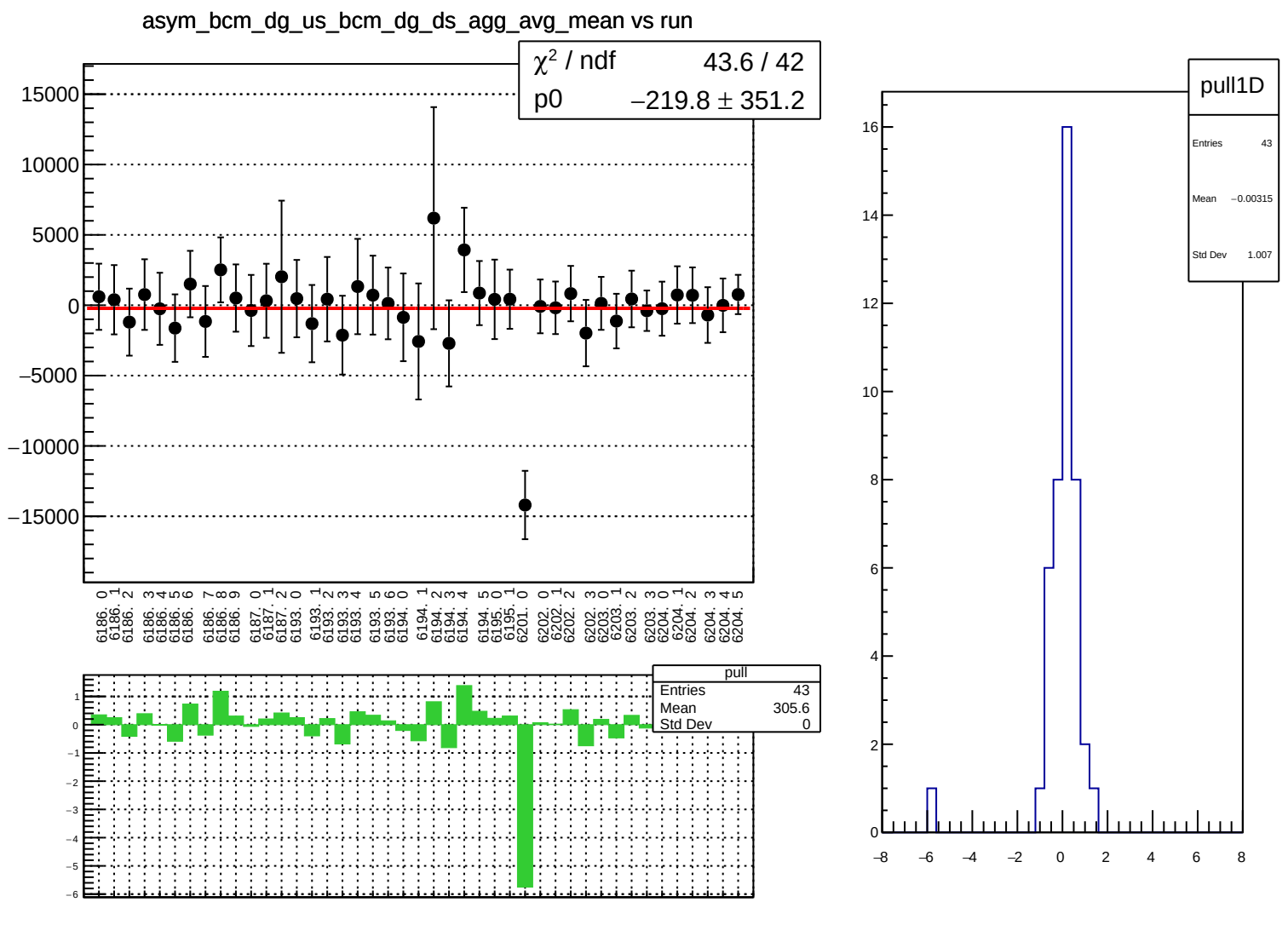

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 425 / 42
p0 22.65 ± 0.02464
24
23.5
23
22.5
22
21.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

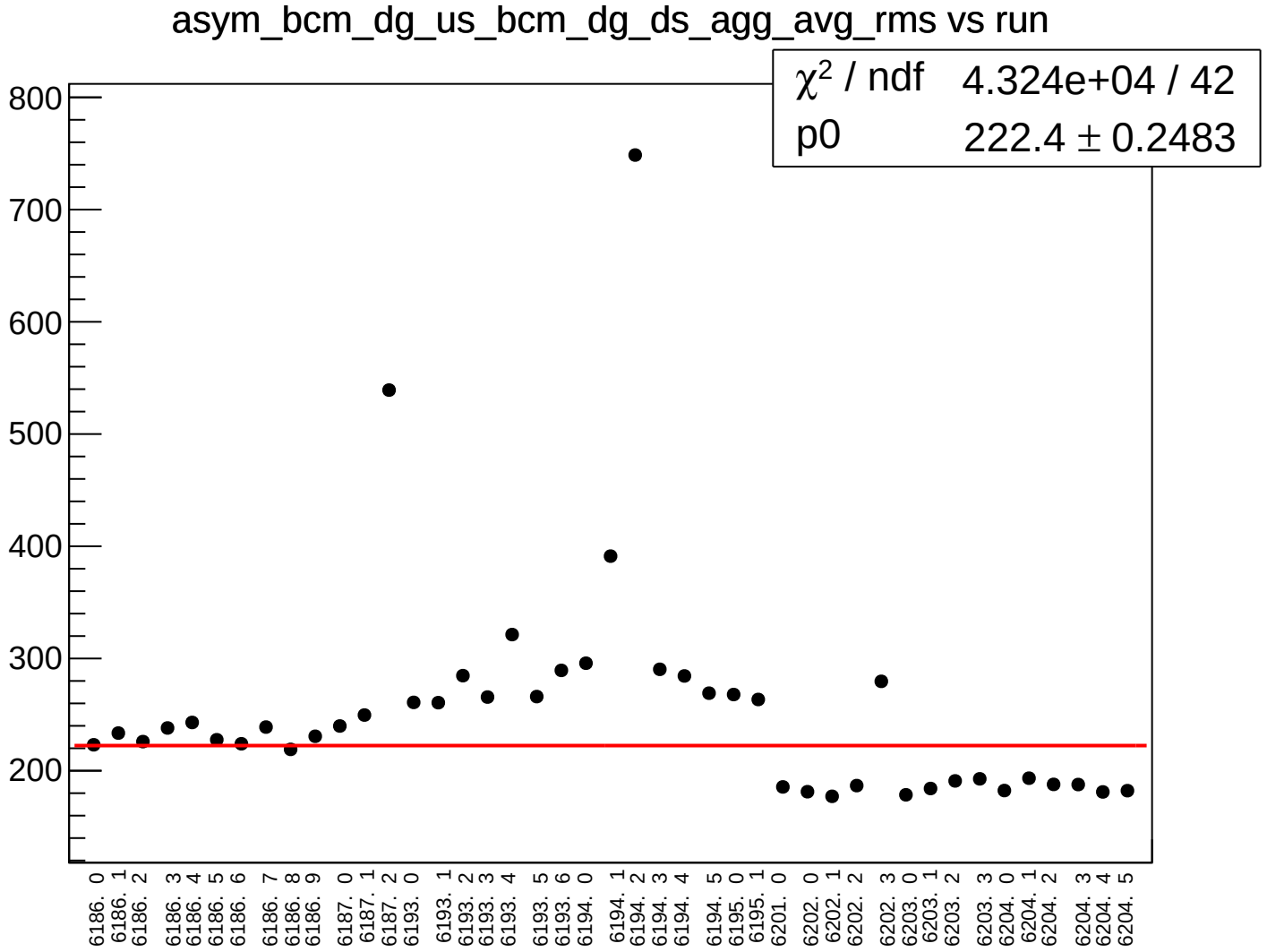

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 45.69 / 42
p0 −242.3 ± 349.8
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 374.4
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.002436
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

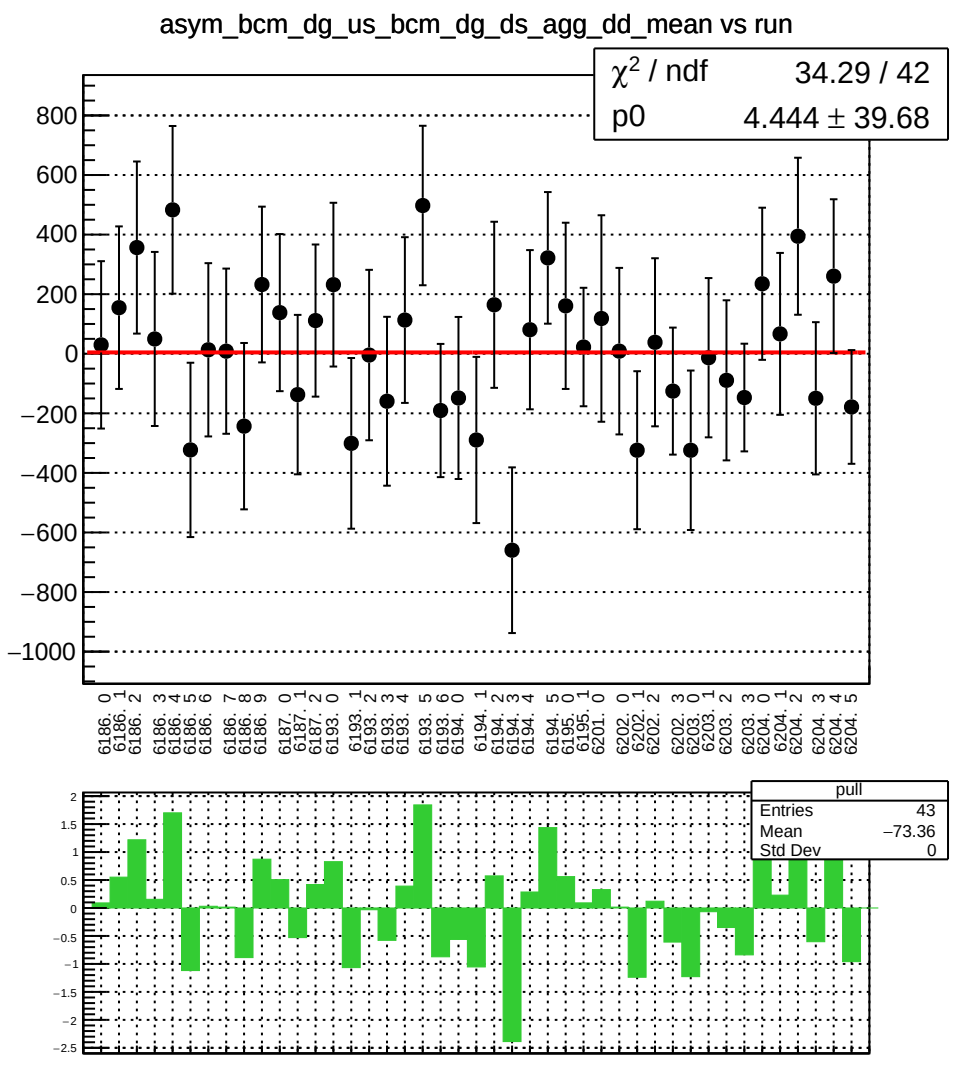

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.268e+04 / 42
p0 221.6 ± 0.2473
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

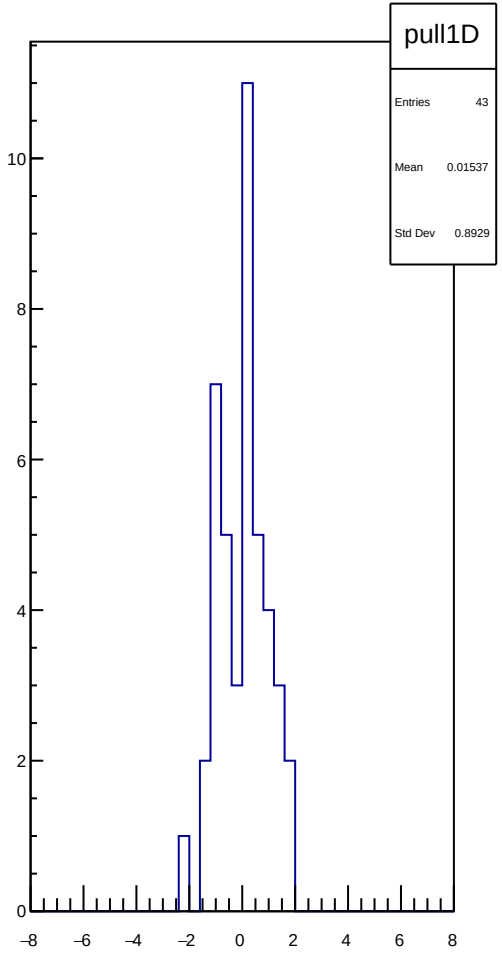

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 43.48 / 42
p0 5.081 ± 26.51
800
600
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 519.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.002635
Std Dev 1.006
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

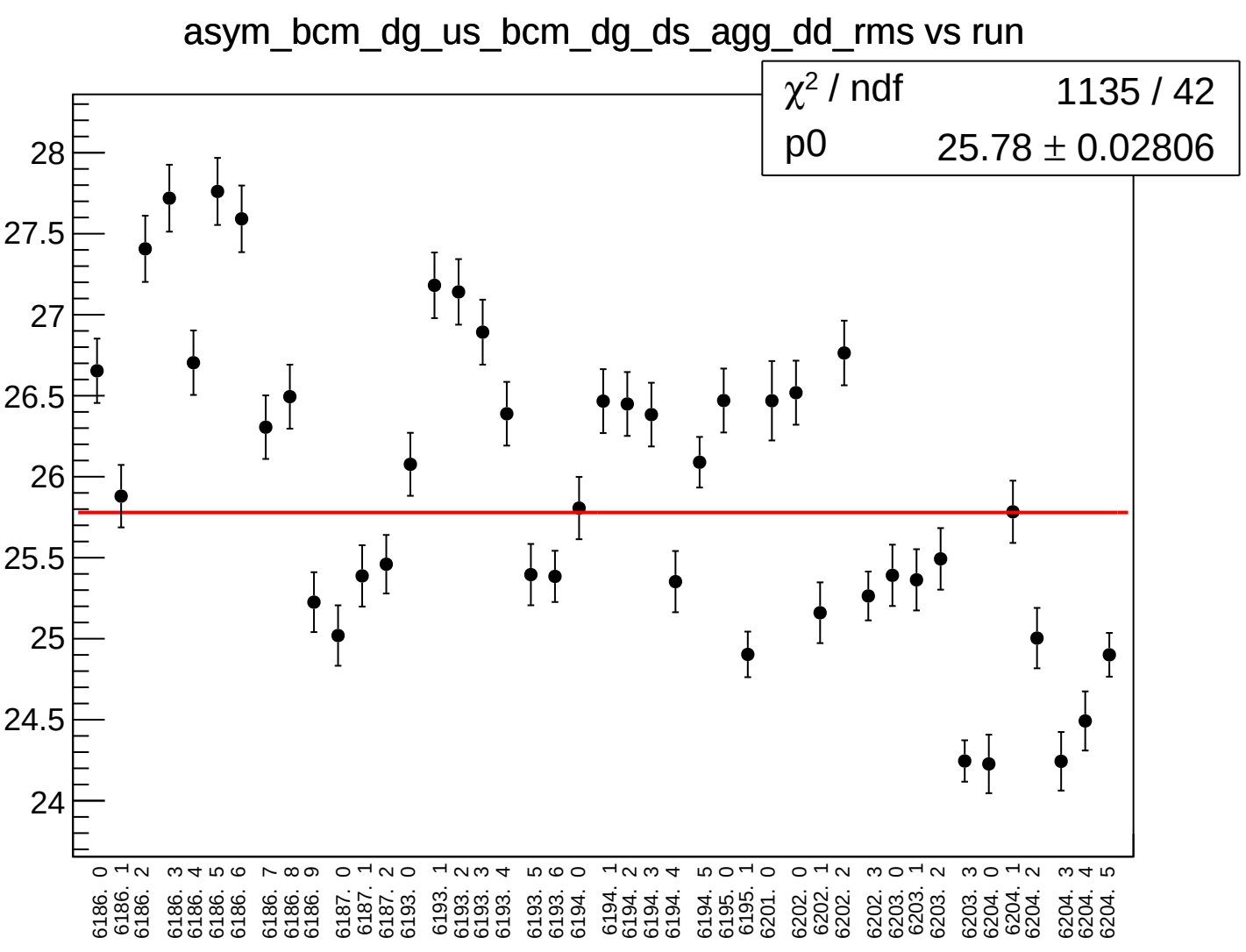

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 900.9 / 42
p0 17.23 ± 0.01875
18.5
18
17.5
17
16.5
16
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

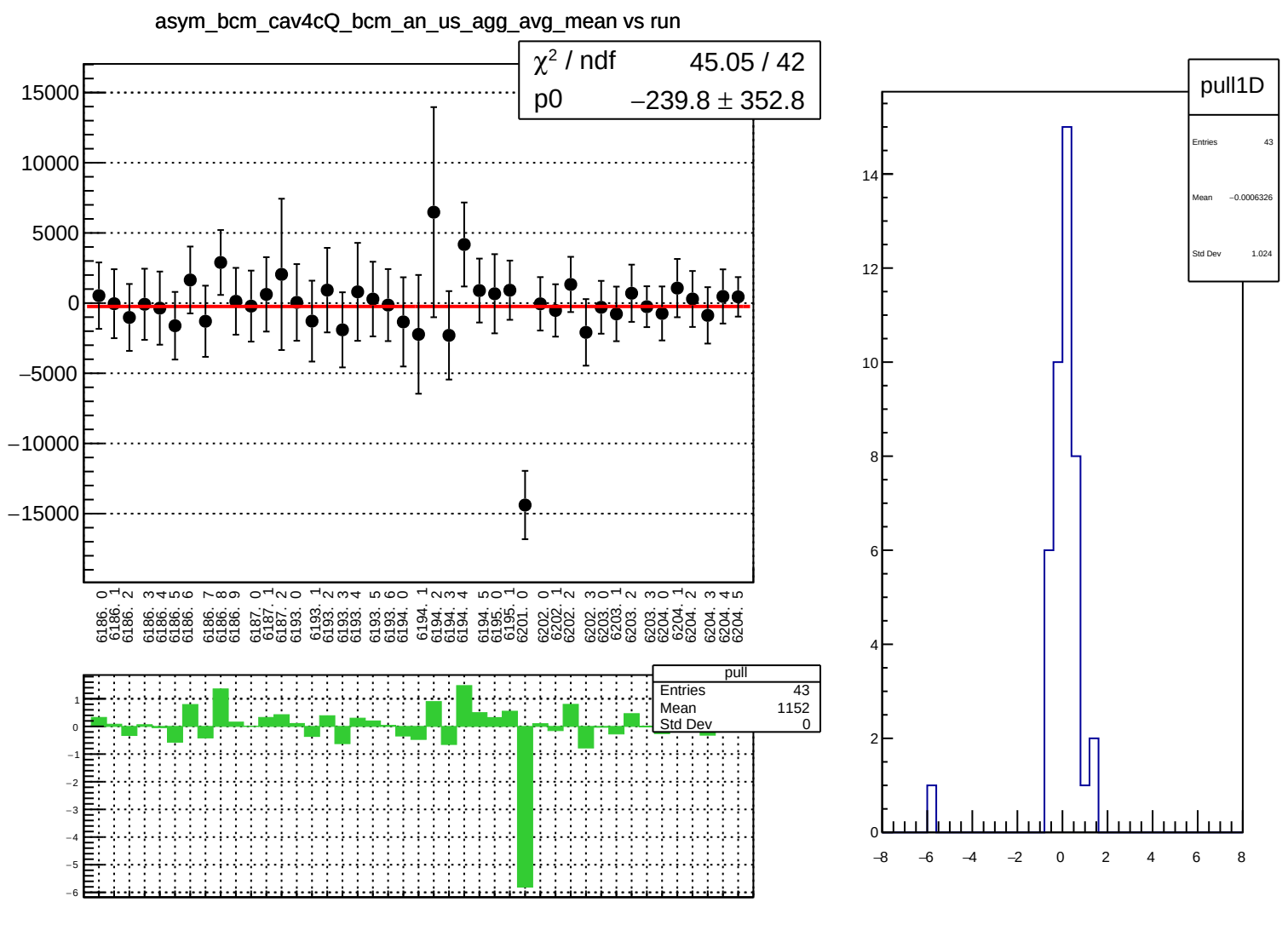

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 43.6 / 42
p0 −219.8 ± 351.2
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 305.6
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.00315
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

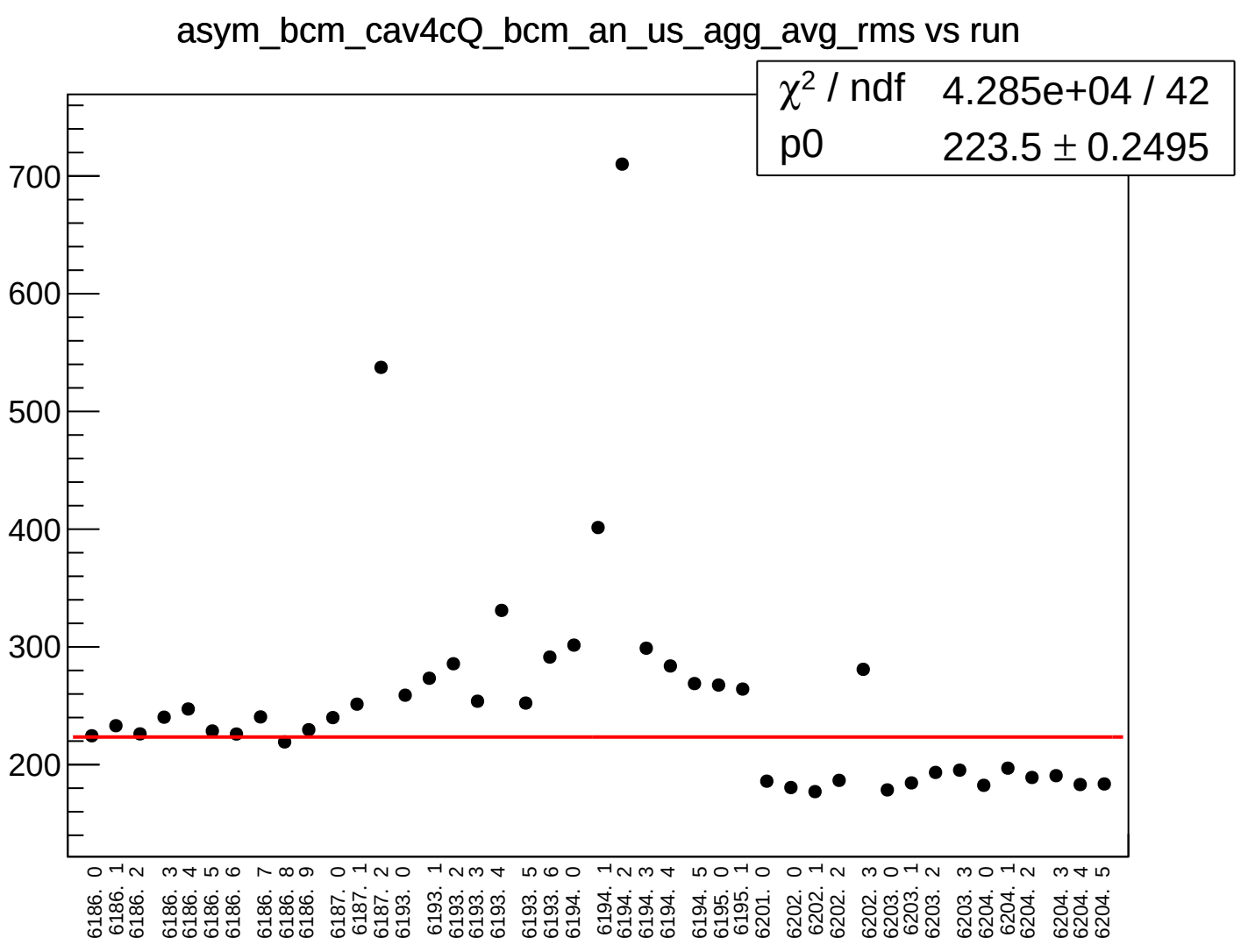

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4.324e+04 / 42
p0 222.4 ± 0.2483
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

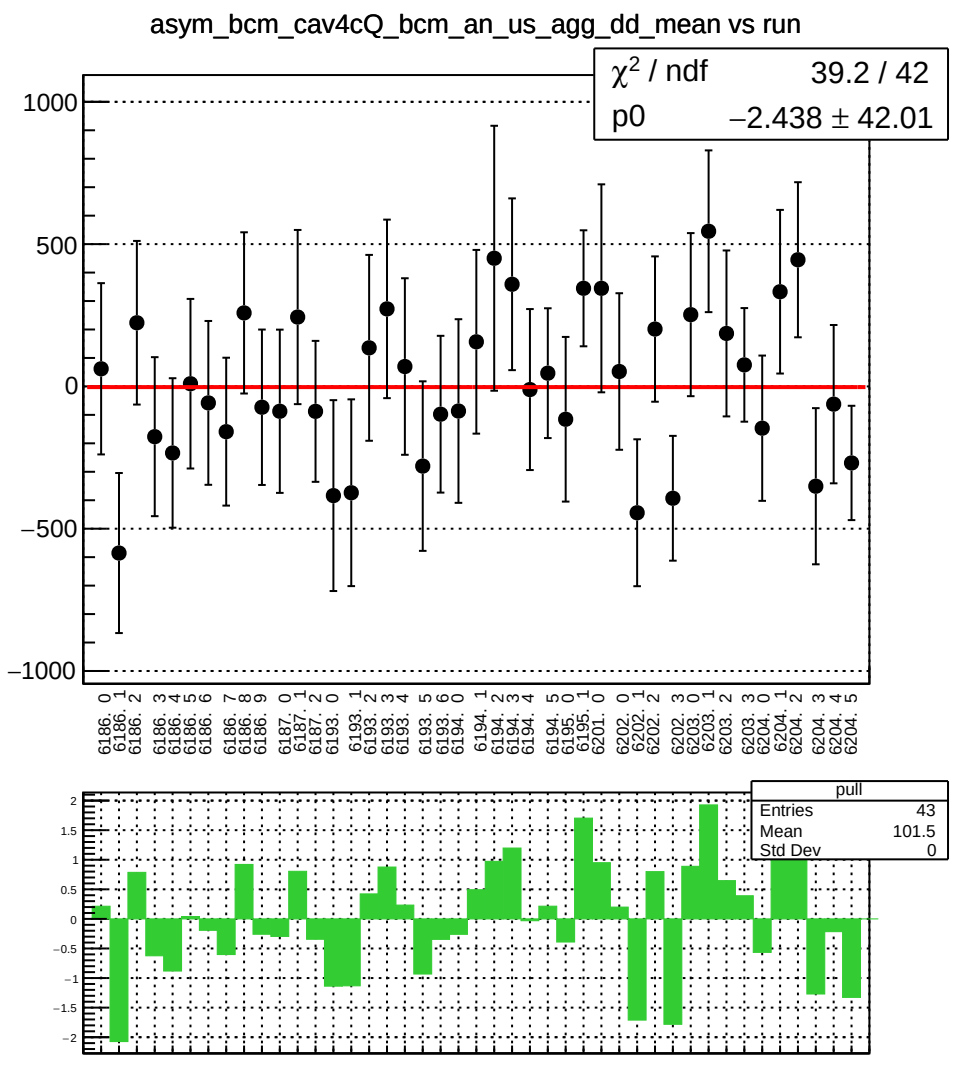

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 34.29 / 42
p0 4.444 ± 39.68
pull
Entries 43
Mean −73.36
Std Dev 0

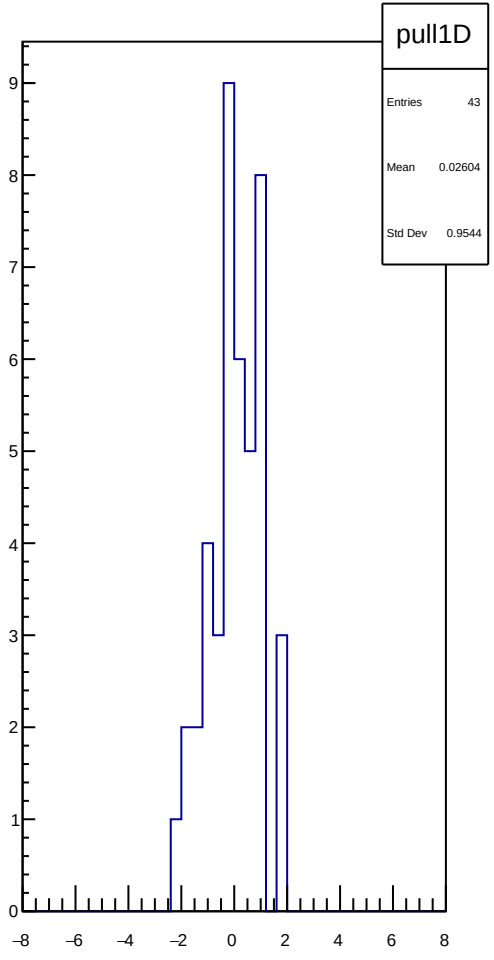

pull1D
Entries 43
Mean 0.01537
Std Dev 0.8929

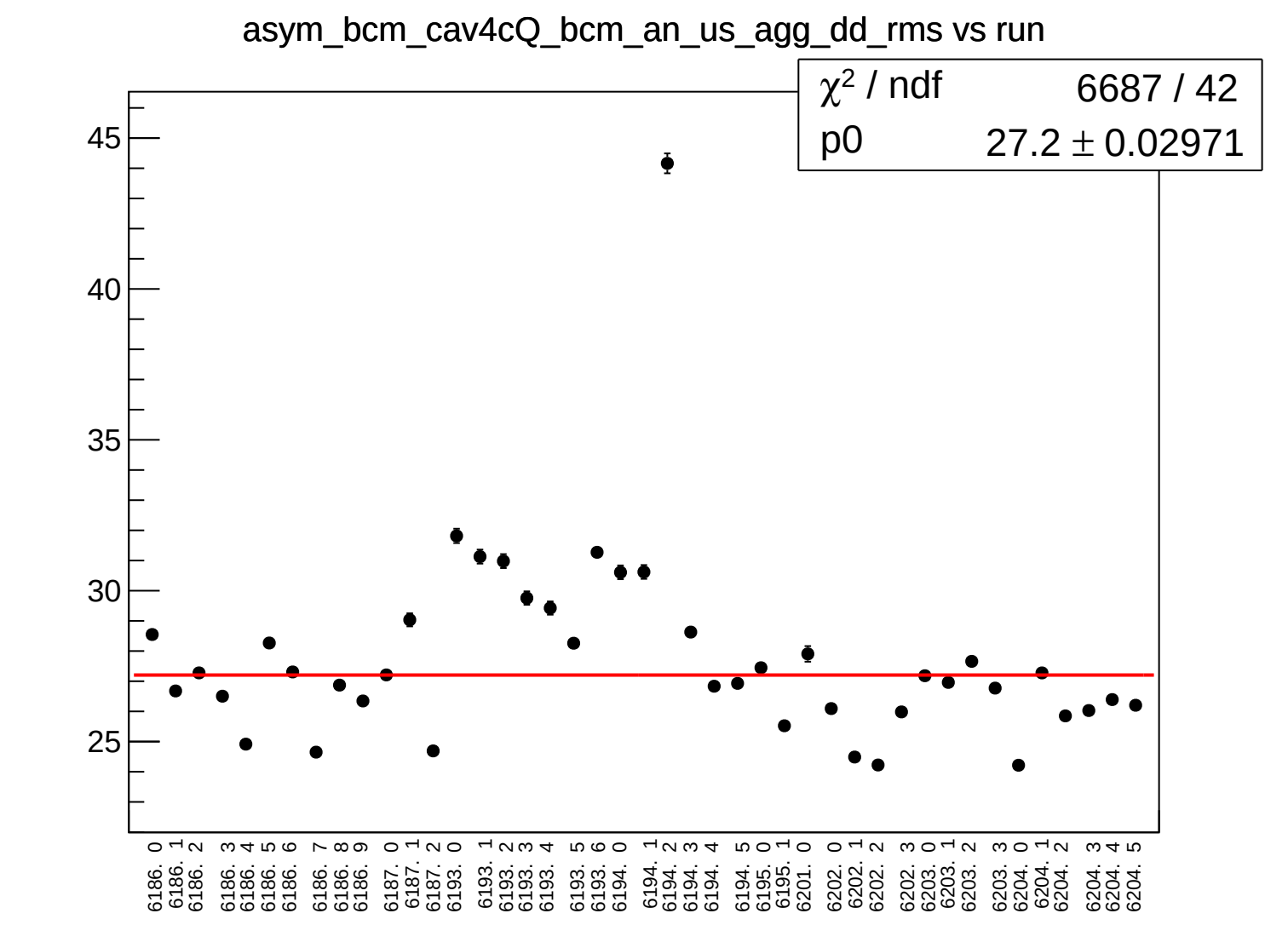

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1135 / 42
p0 25.78 ± 0.02806
28
27.5
27
26.5
26
25.5
25
24.5
24
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

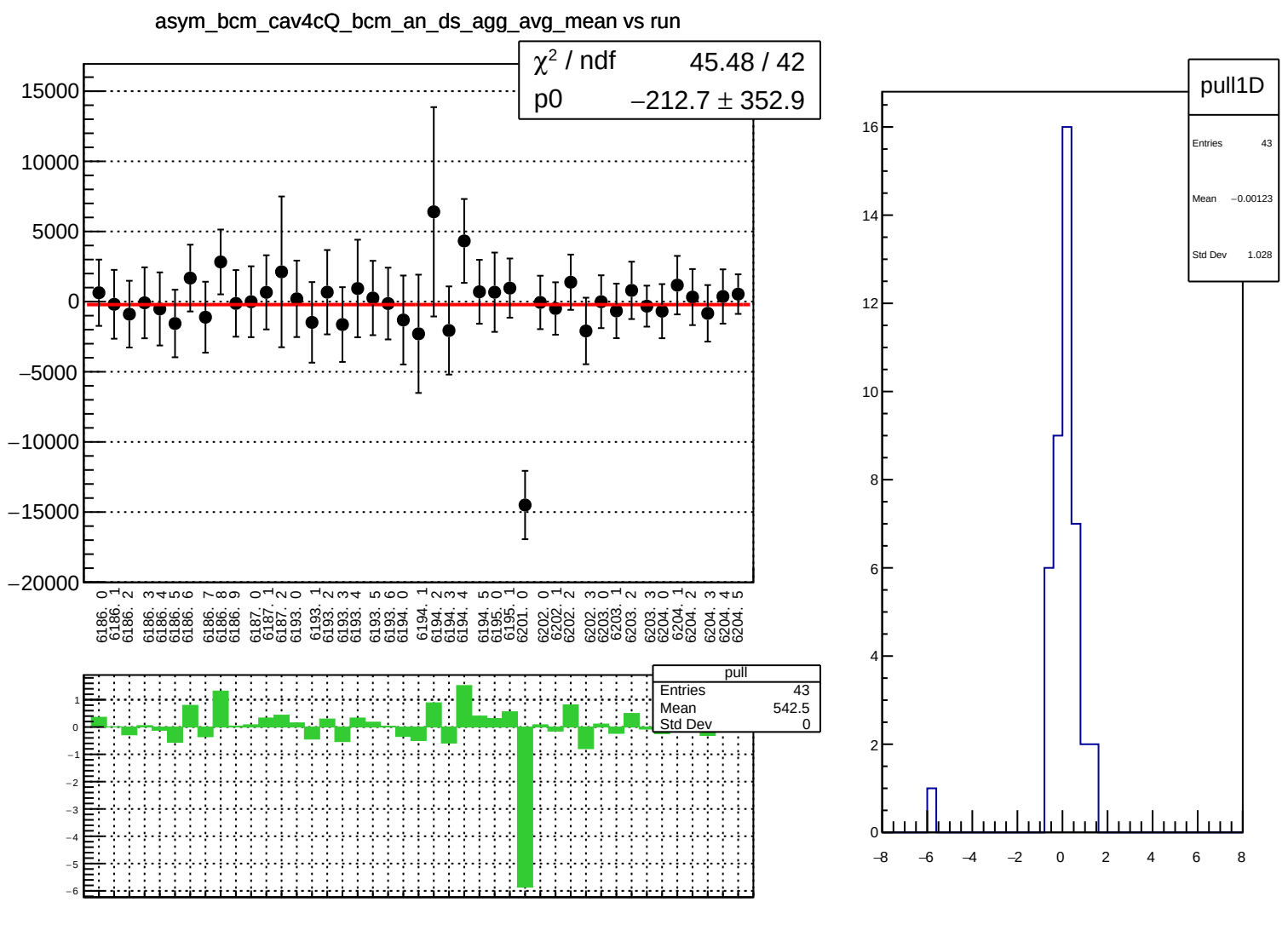

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 45.05 / 42
p0 −239.8 ± 352.8
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1152
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.0006326
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

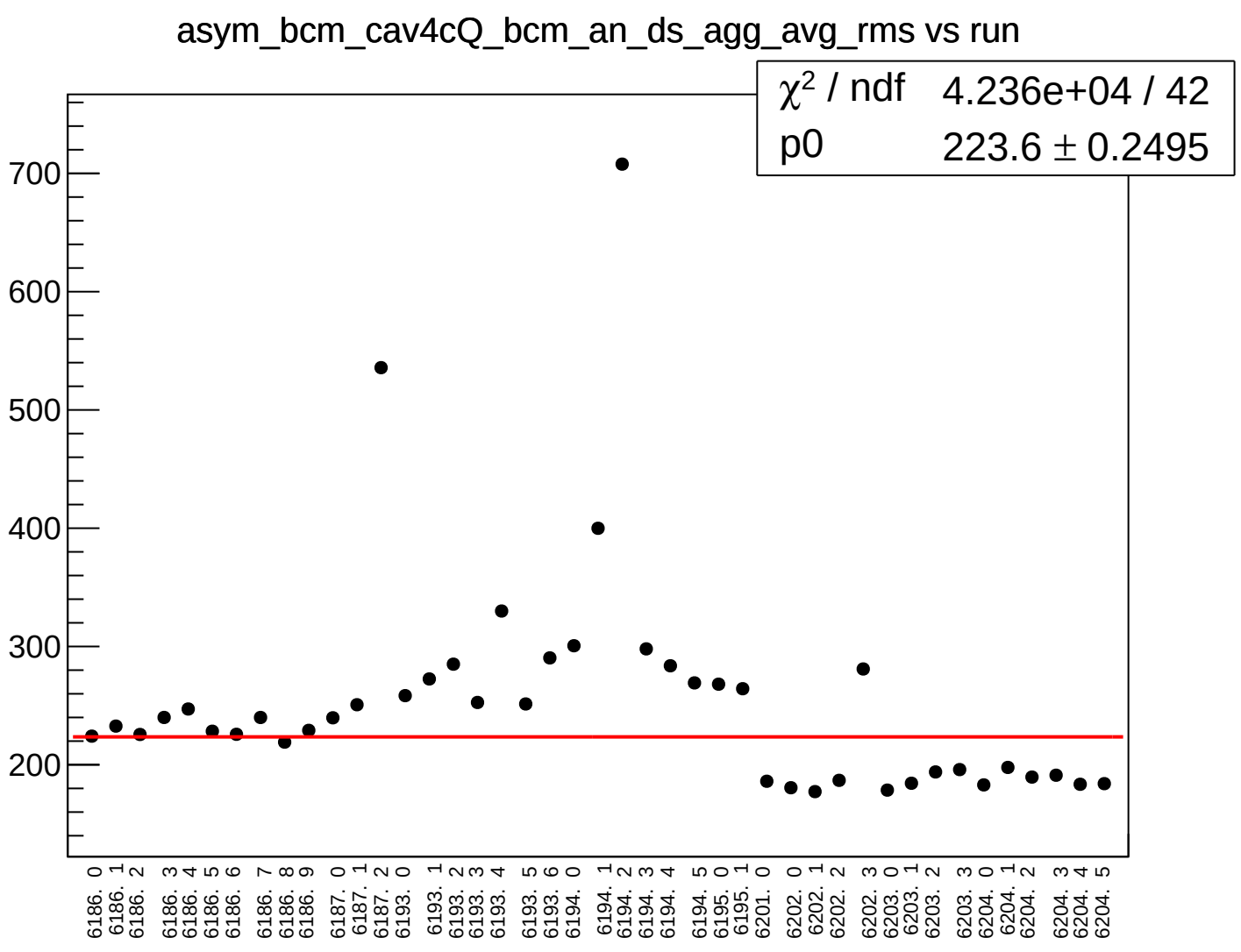

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.285e+04 / 42
p0 223.5 ± 0.2495
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

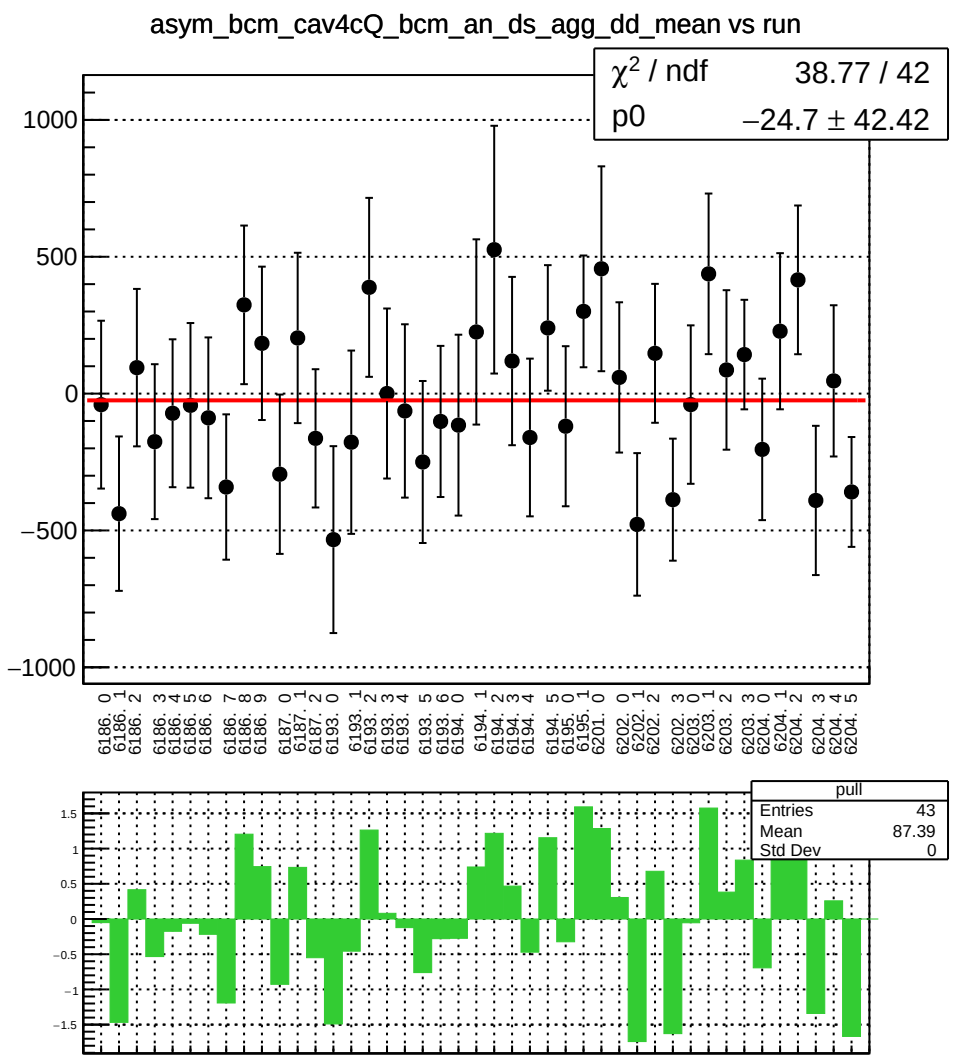

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 39.2 / 42
p0 −2.438 ± 42.01
1000
500
0
−500
−1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 101.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

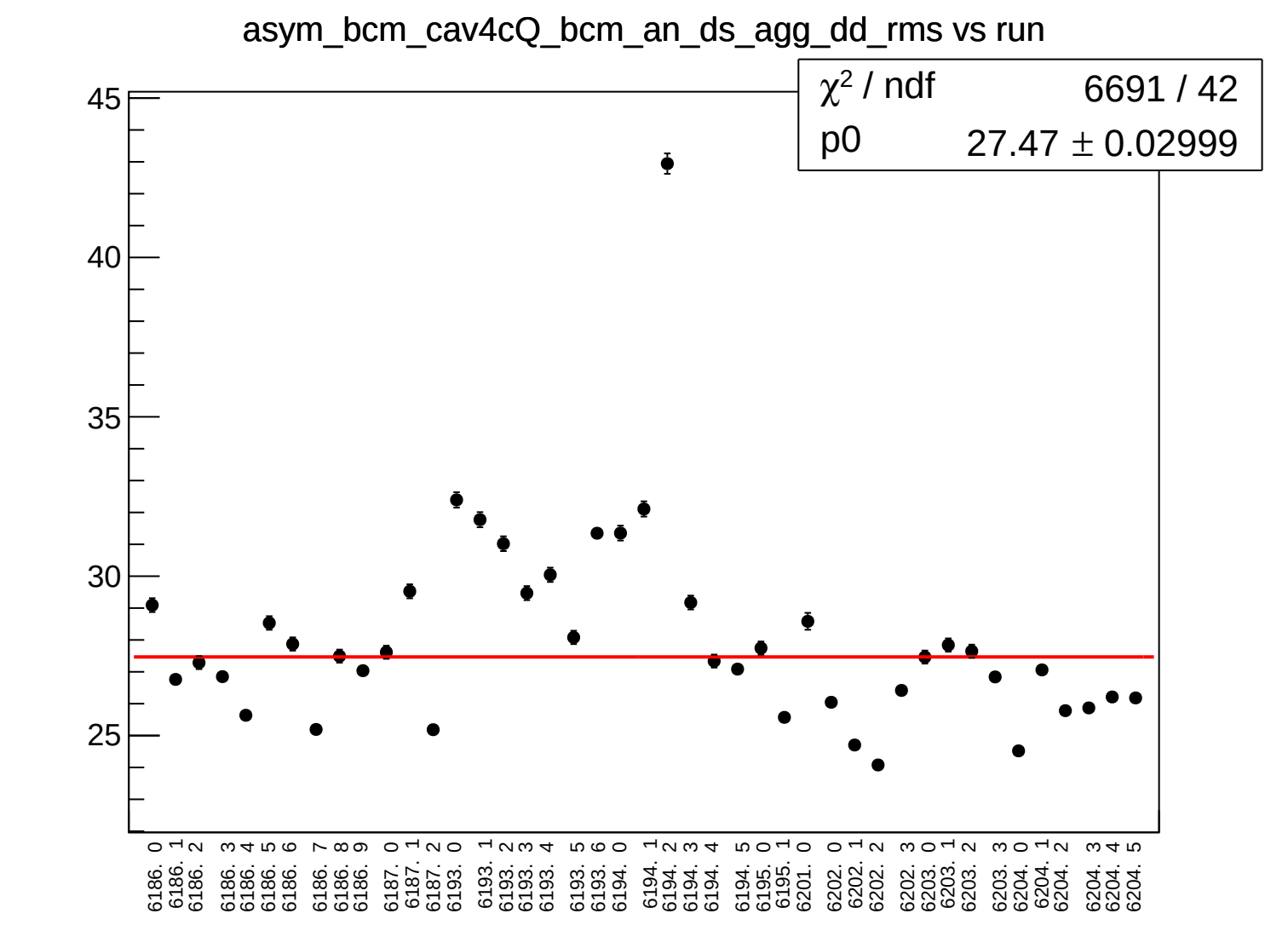

pull1D
Entries 43
Mean 0.02604
Std Dev 0.9544
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

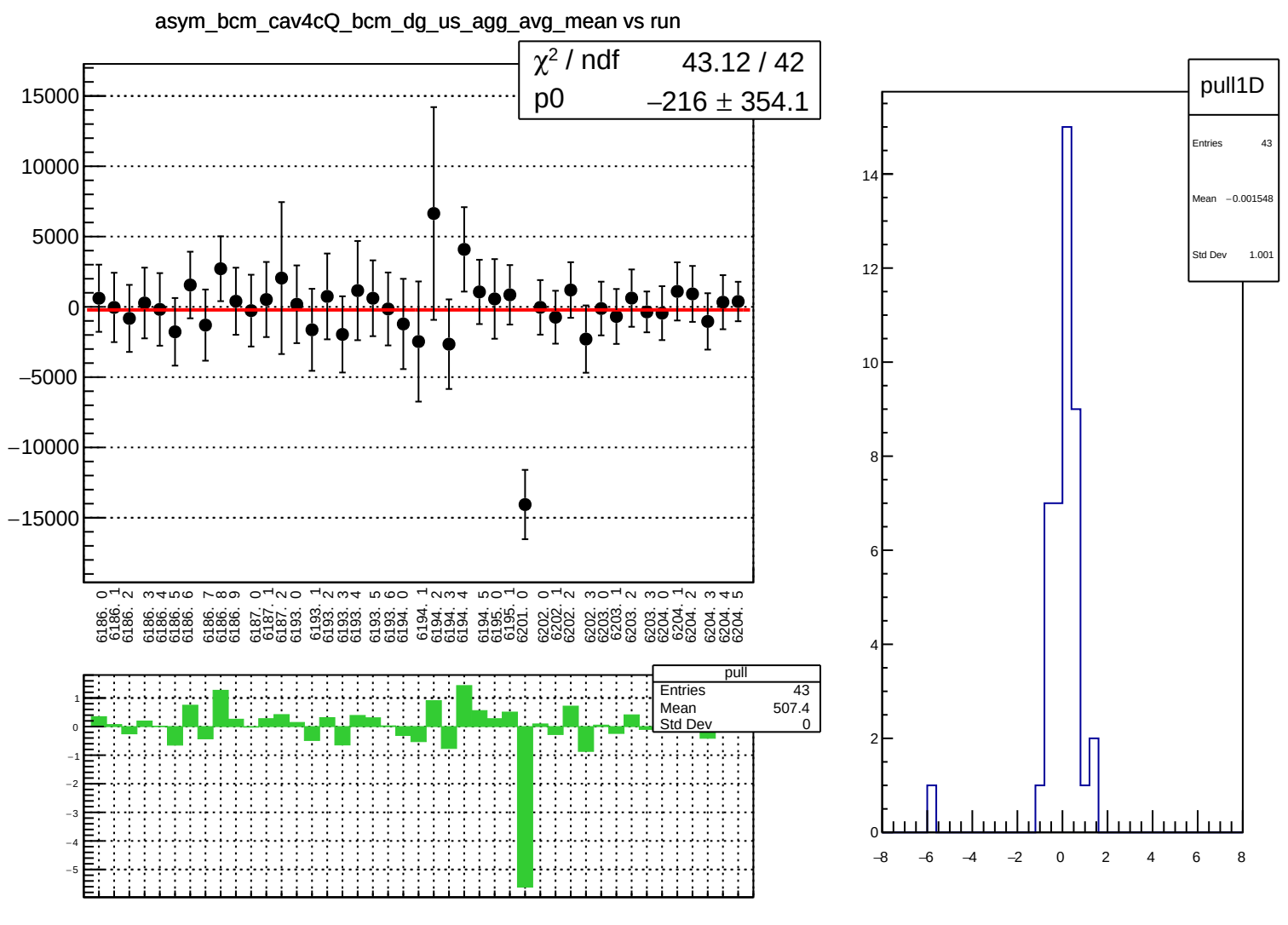

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 6687 / 42
p0 27.2 ± 0.02971
45
40
35
30
25
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

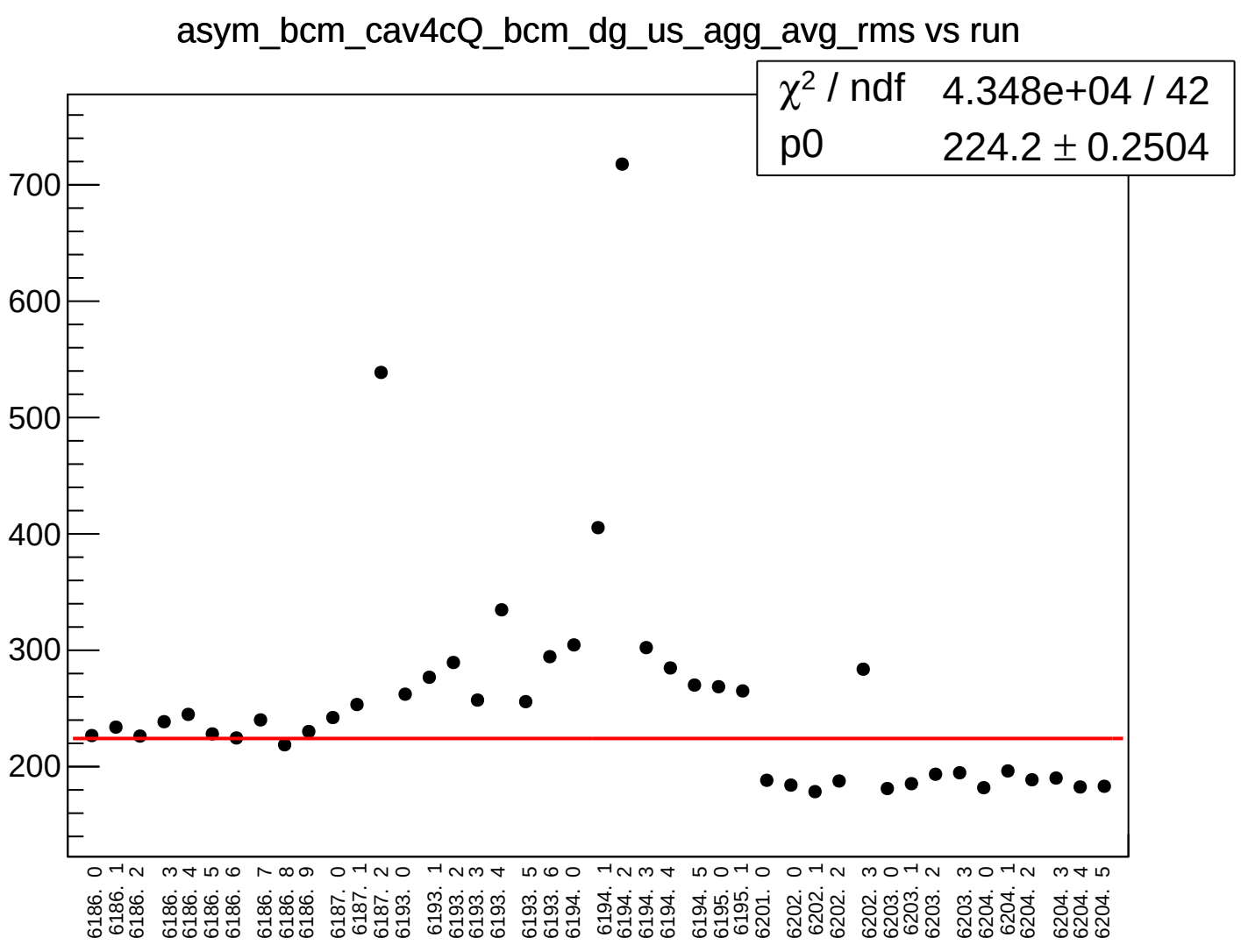

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 45.48 / 42
p0 −212.7 ± 352.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 542.5
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.00123
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

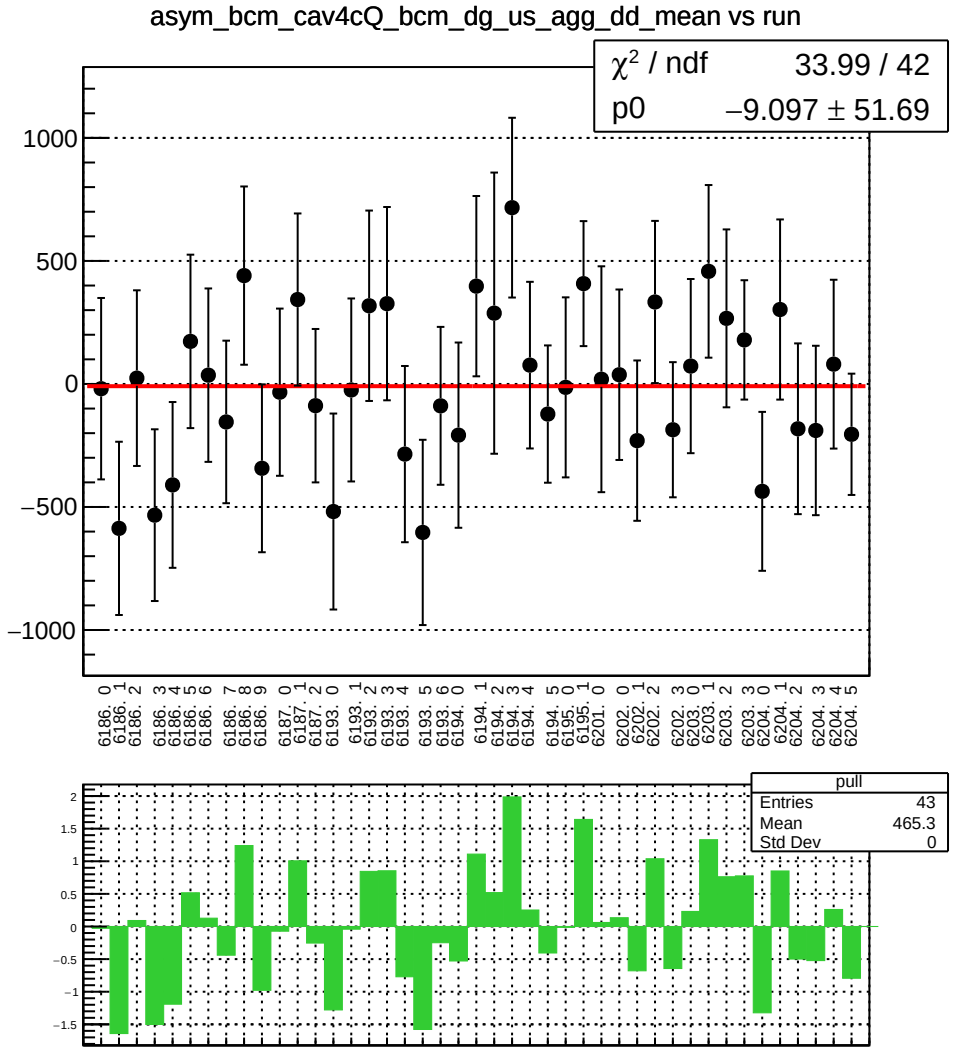

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.236e+04 / 42
p0 223.6 ± 0.2495
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

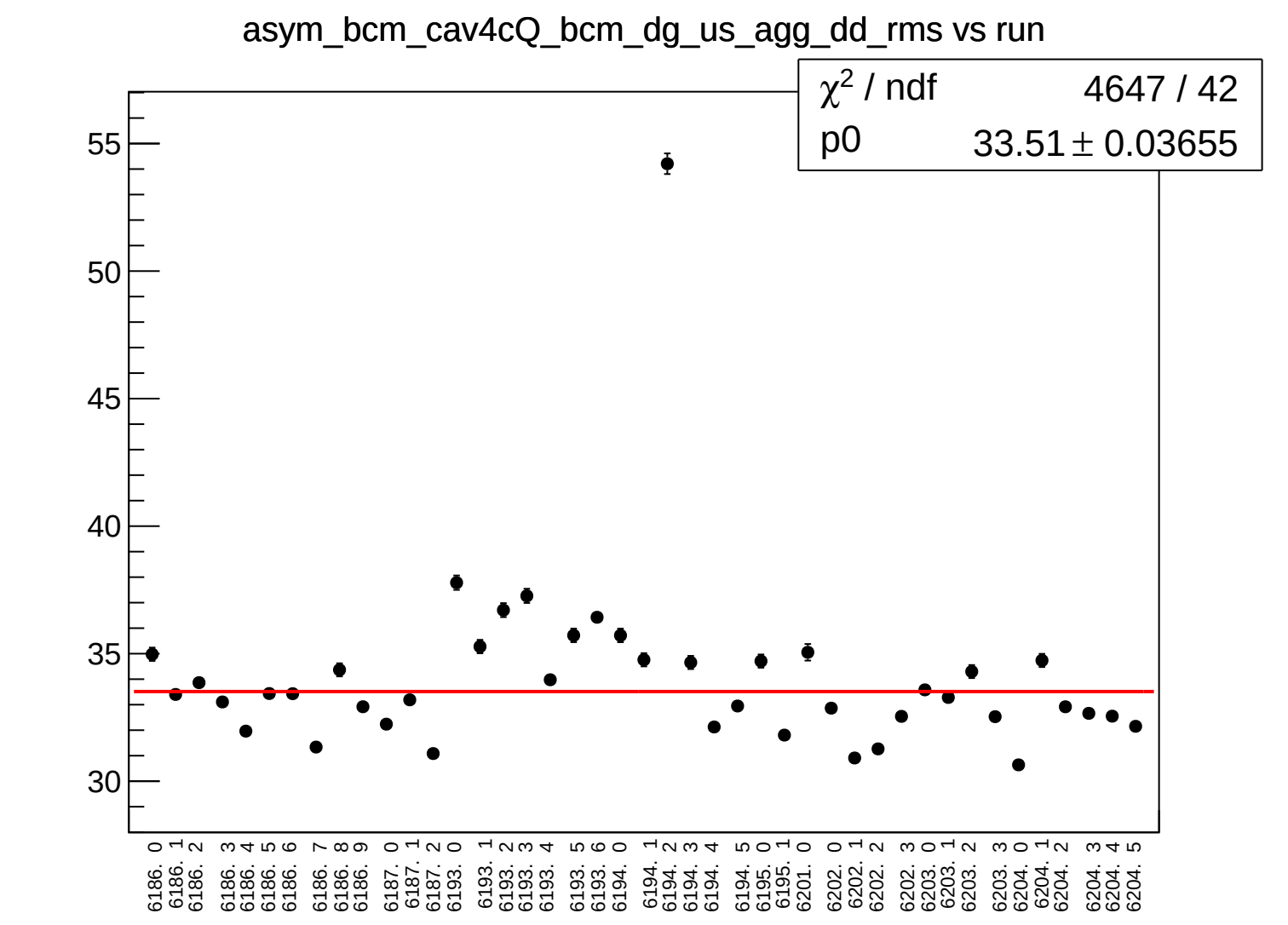

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 38.77 / 42
p0 −24.7 ± 42.42
1000
500
0
−500
−1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 87.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.02239
Std Dev 0.9493
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

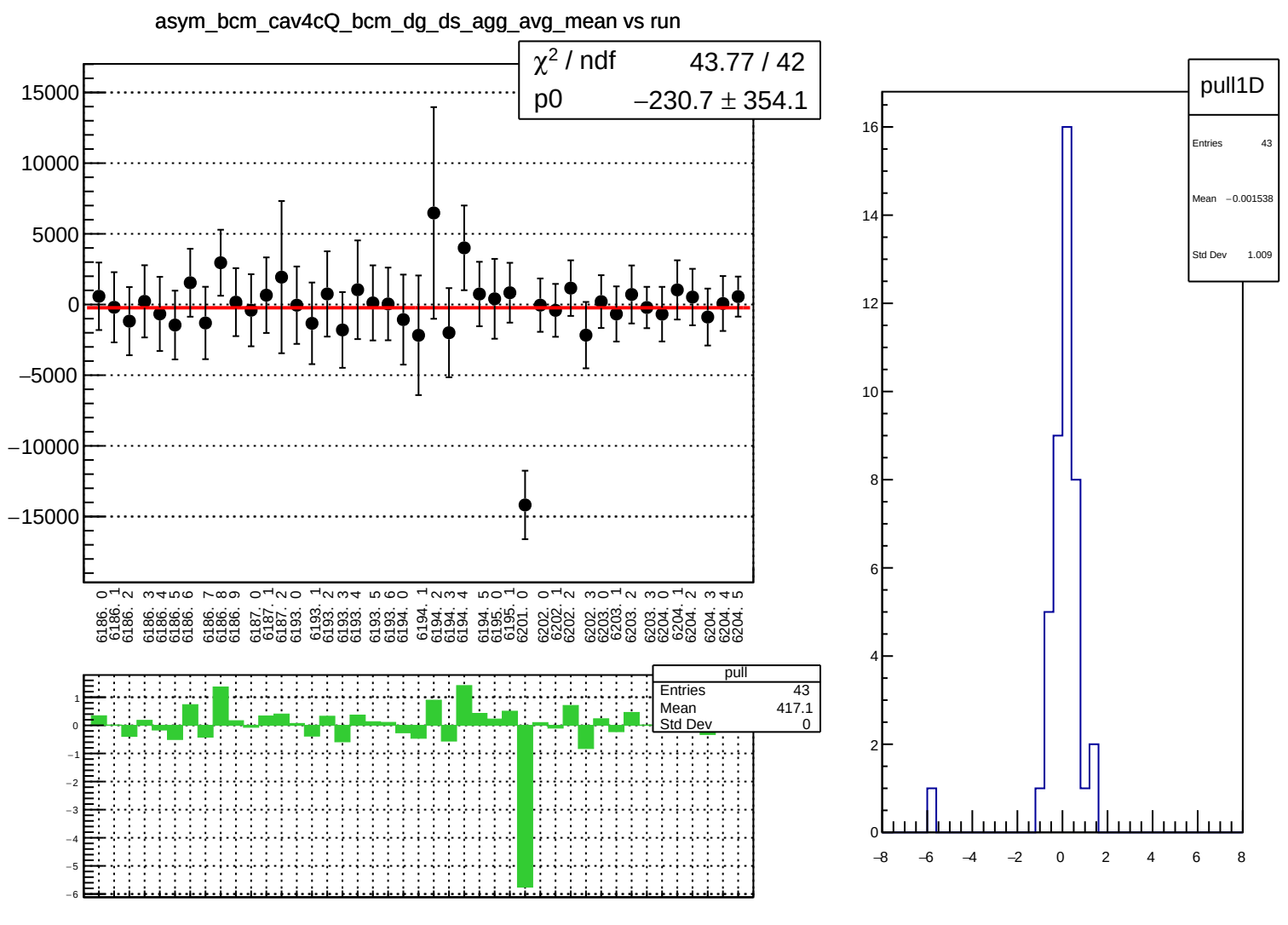

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6691 / 42
p0 27.47 ± 0.02999
45
40
35
30
25
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

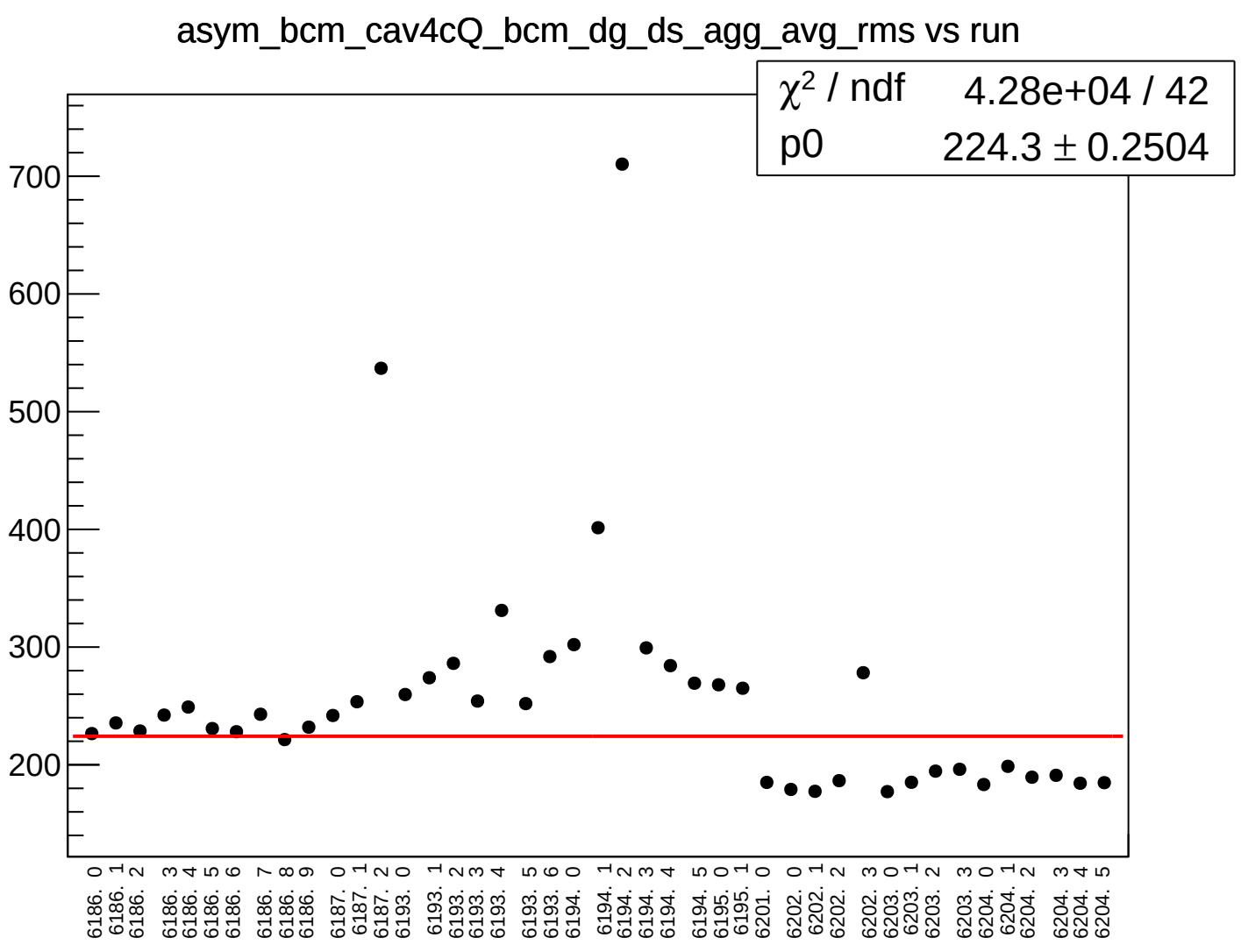

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 43.12 / 42
p0 −216 ± 354.1
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 507.4
Std Dev 0
1
0
−1
−2
−3
−4
−5
pull1D
Entries 43
Mean −0.001548
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

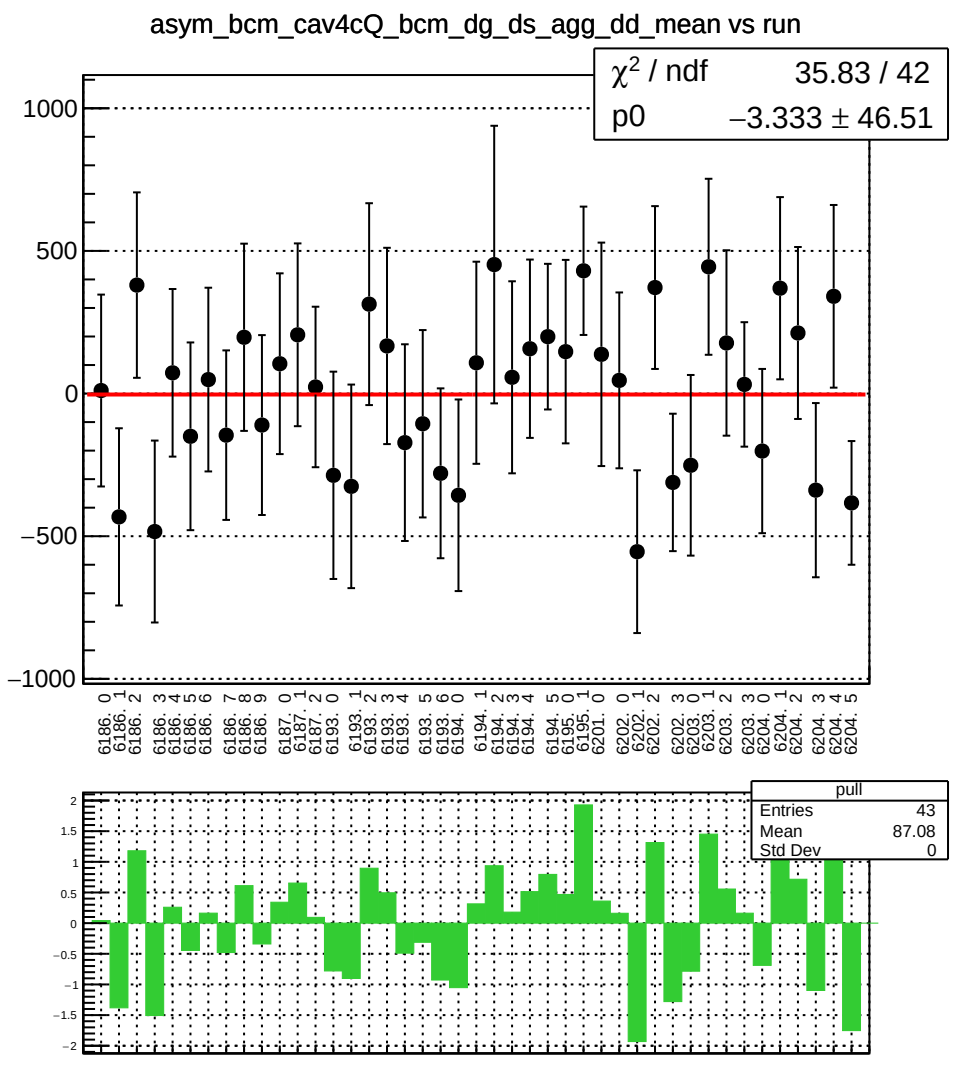

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 4.348e+04 / 42
p0 224.2 ± 0.2504
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

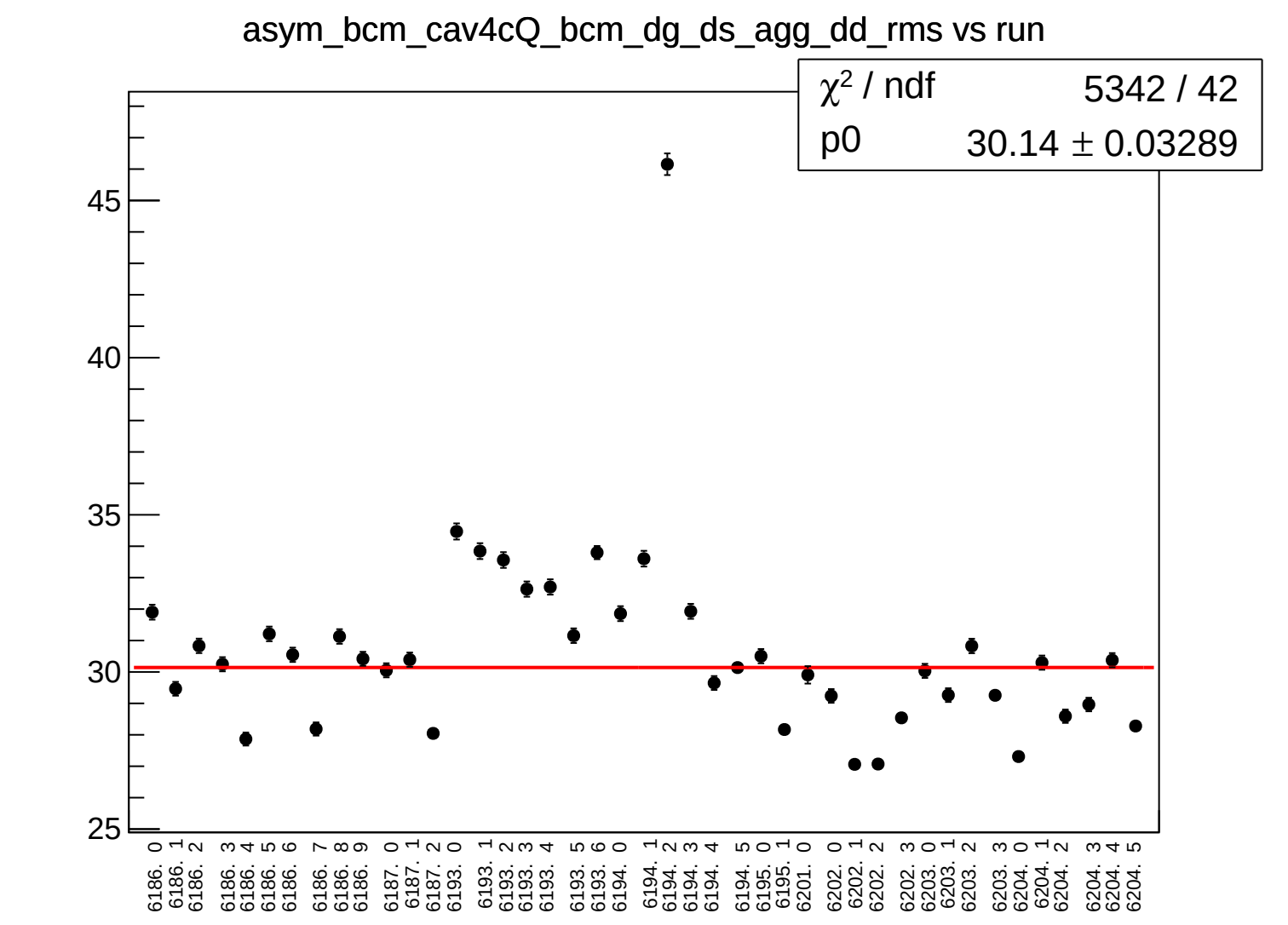

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 33.99 / 42
p0 −9.097 ± 51.69
1000
500
0
−500
−1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 465.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.004768
Std Dev 0.889
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

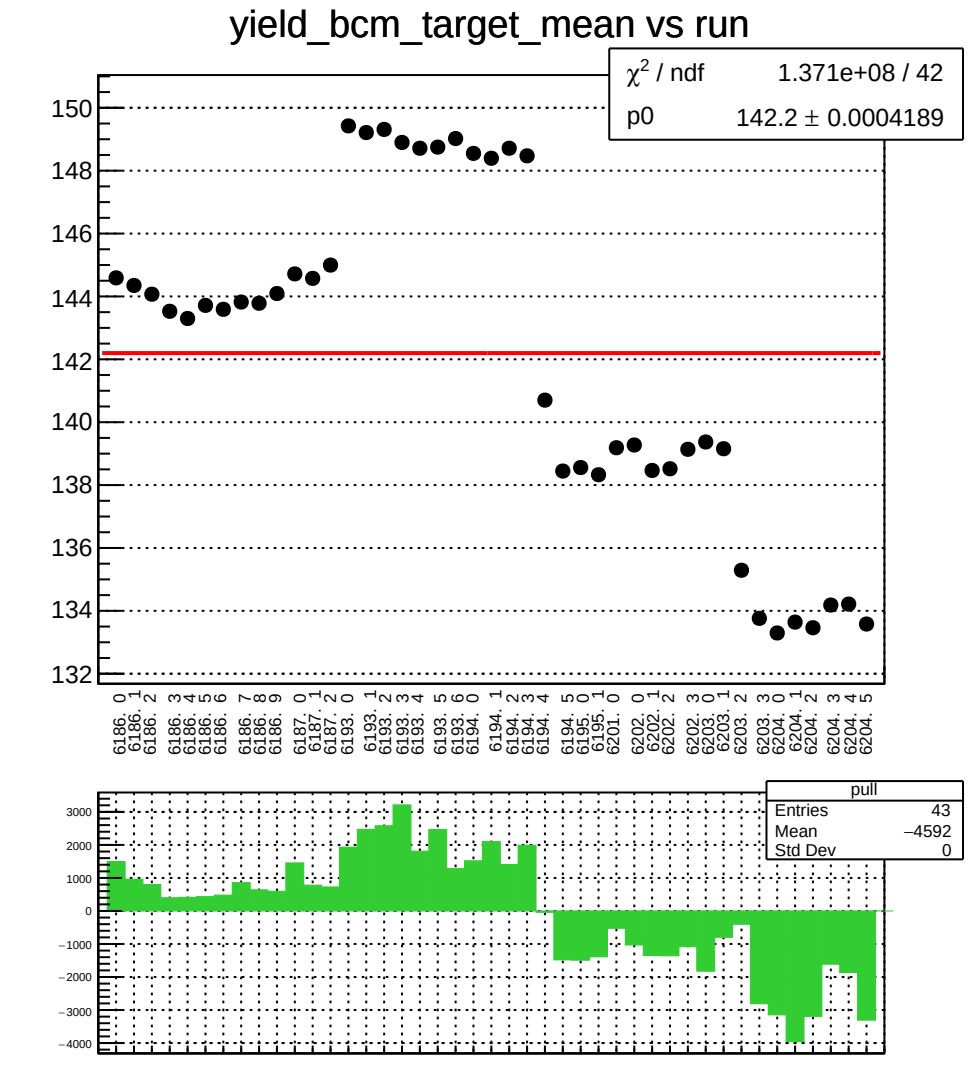

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 4647 / 42
p0 33.51 ± 0.03655
55
50
45
40
35
30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

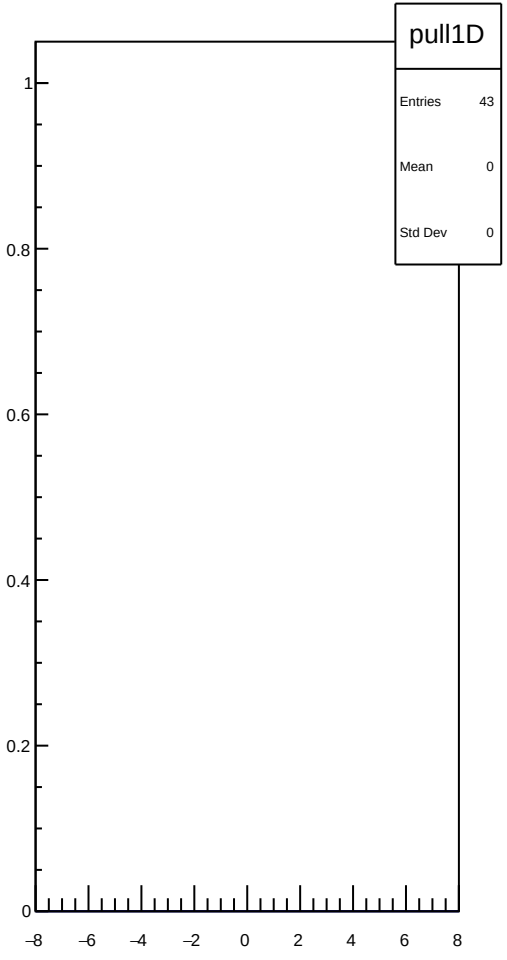

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 43.77 / 42
p0 −230.7 ± 354.1
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 417.1
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.001538
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

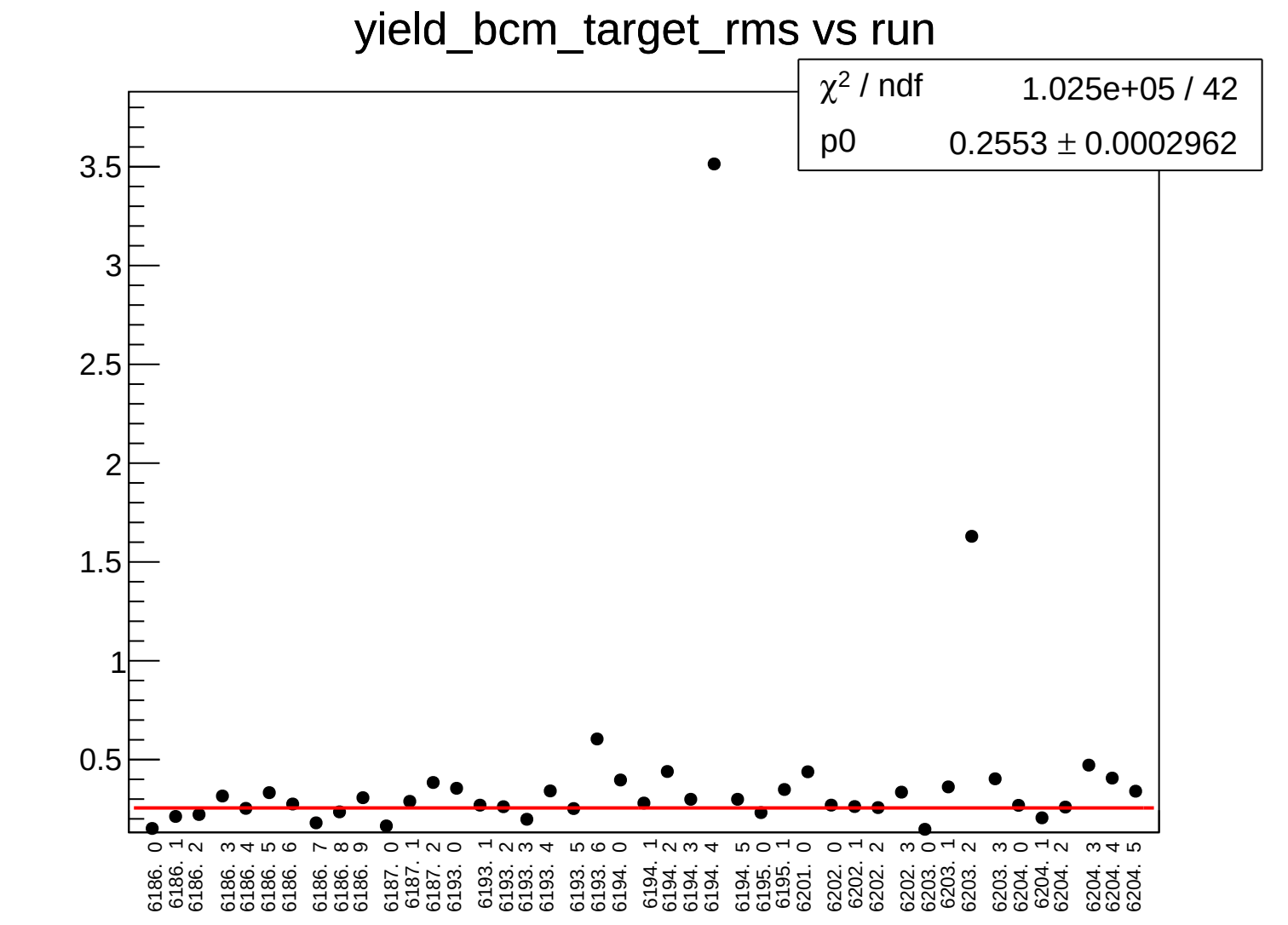

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4.28e+04 / 42
p0 224.3 ± 0.2504
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

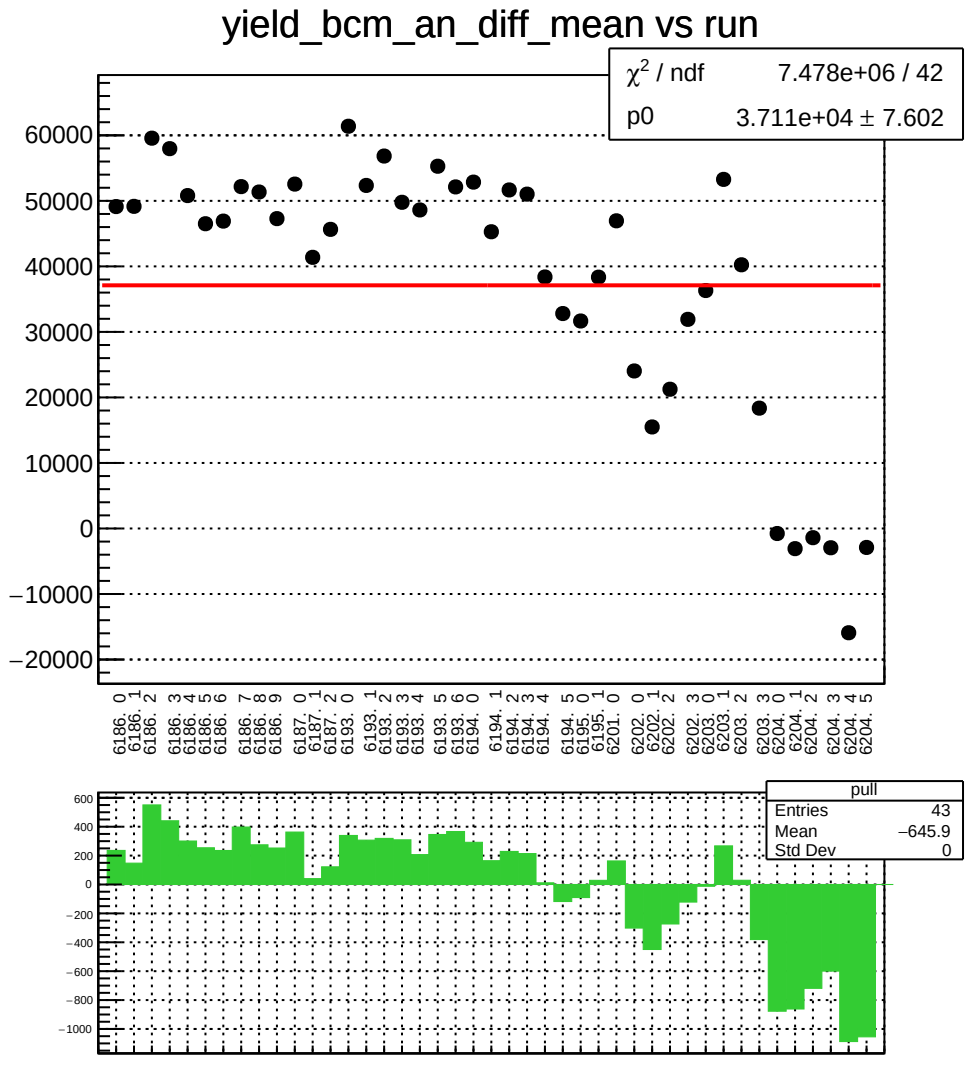

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 35.83 / 42
p0 −3.333 ± 46.51
1000
500
0
−500
−1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 87.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.0158
Std Dev 0.9127
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

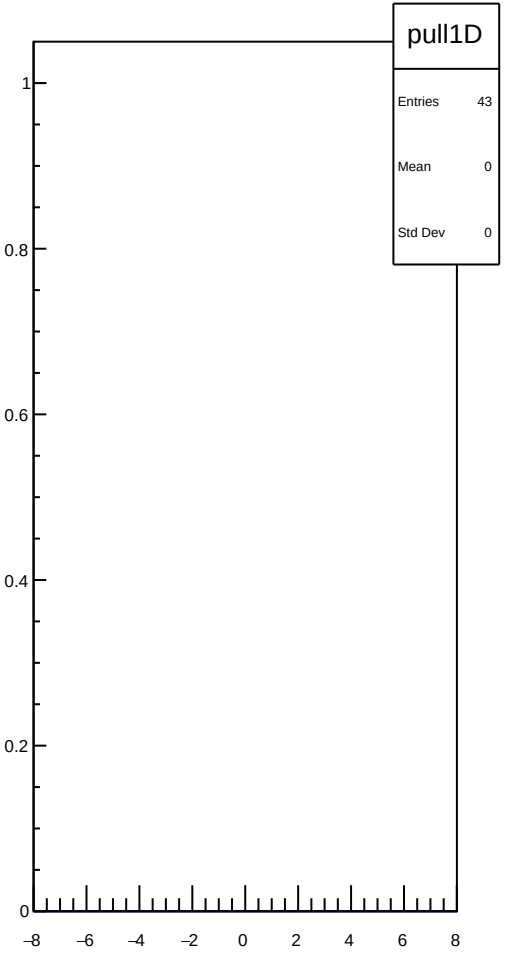

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5342 / 42
p0 30.14 ± 0.03289
45
40
35
30
25
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

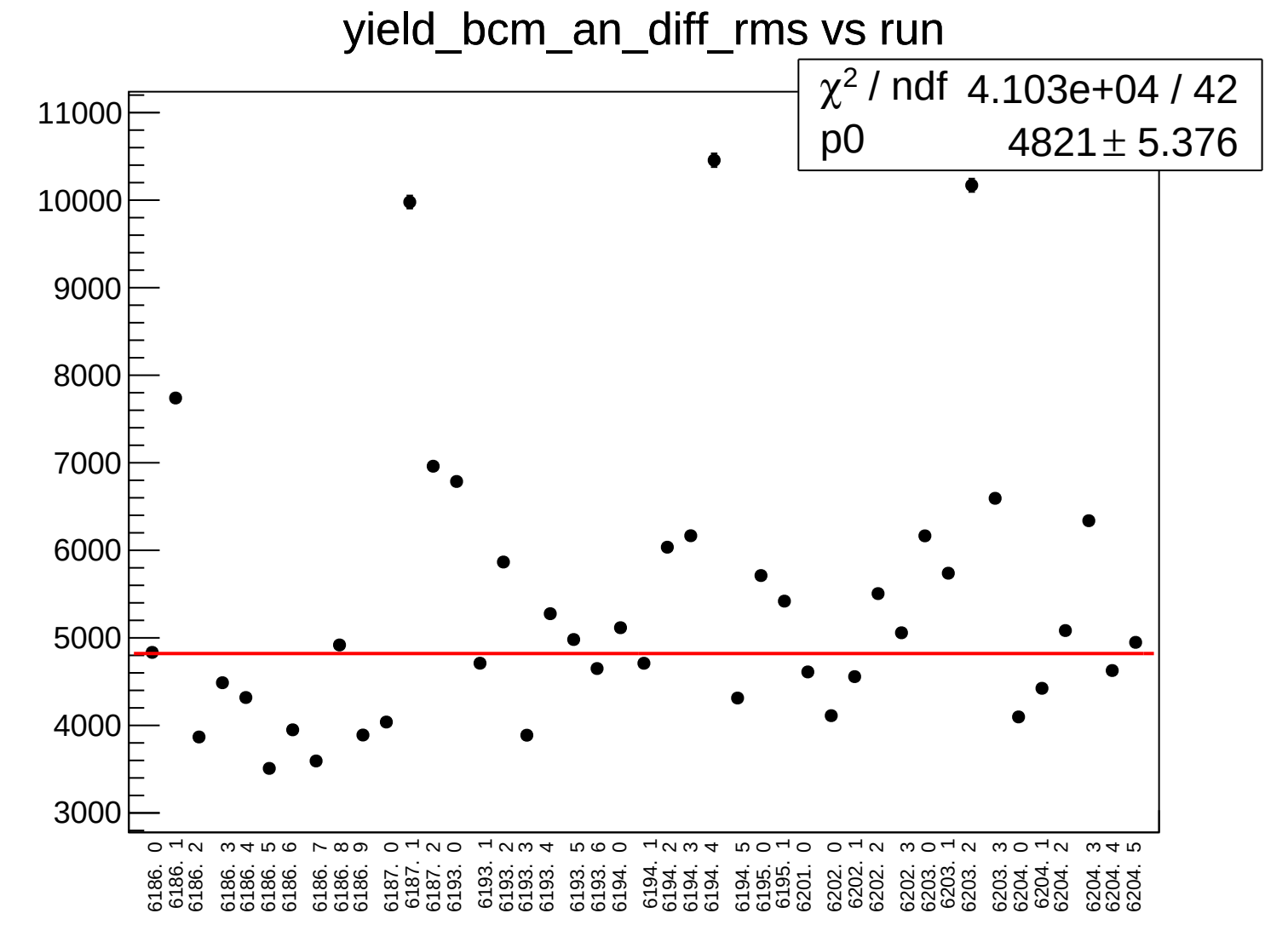

yield_bcm_target_mean vs run
χ² / ndf 1.371e+08 / 42
p0 142.2 ± 0.0004189
150
148
146
144
142
140
138
136
134
132
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −4592
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
−4000

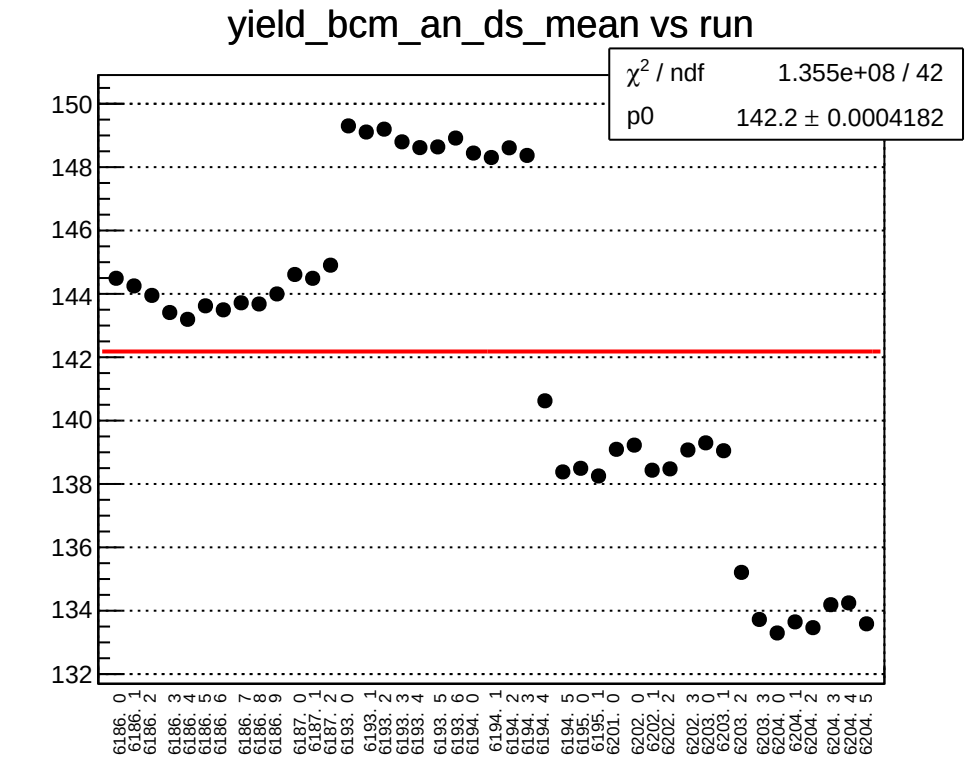

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

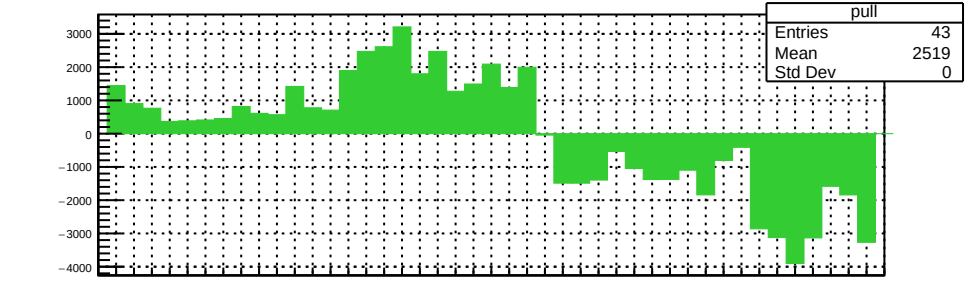

yield_bcm_target_rms vs run
χ² / ndf 1.025e+05 / 42
p0 0.2553 ± 0.0002962
3.5
3
2.5
2
1.5
1
0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

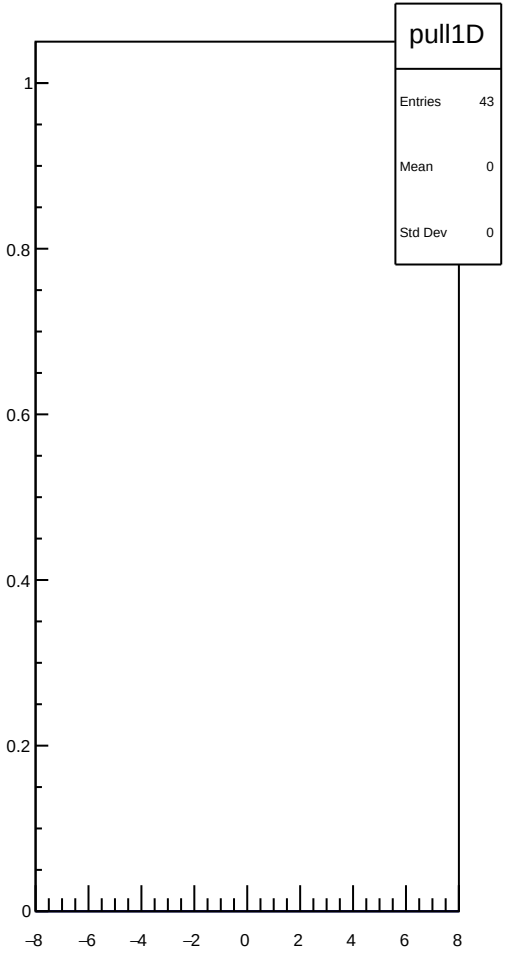

yield_bcm_an_diff_mean vs run
χ² / ndf 7.478e+06 / 42
p0 3.711e+04 ± 7.602
60000
50000
40000
30000
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −645.9
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

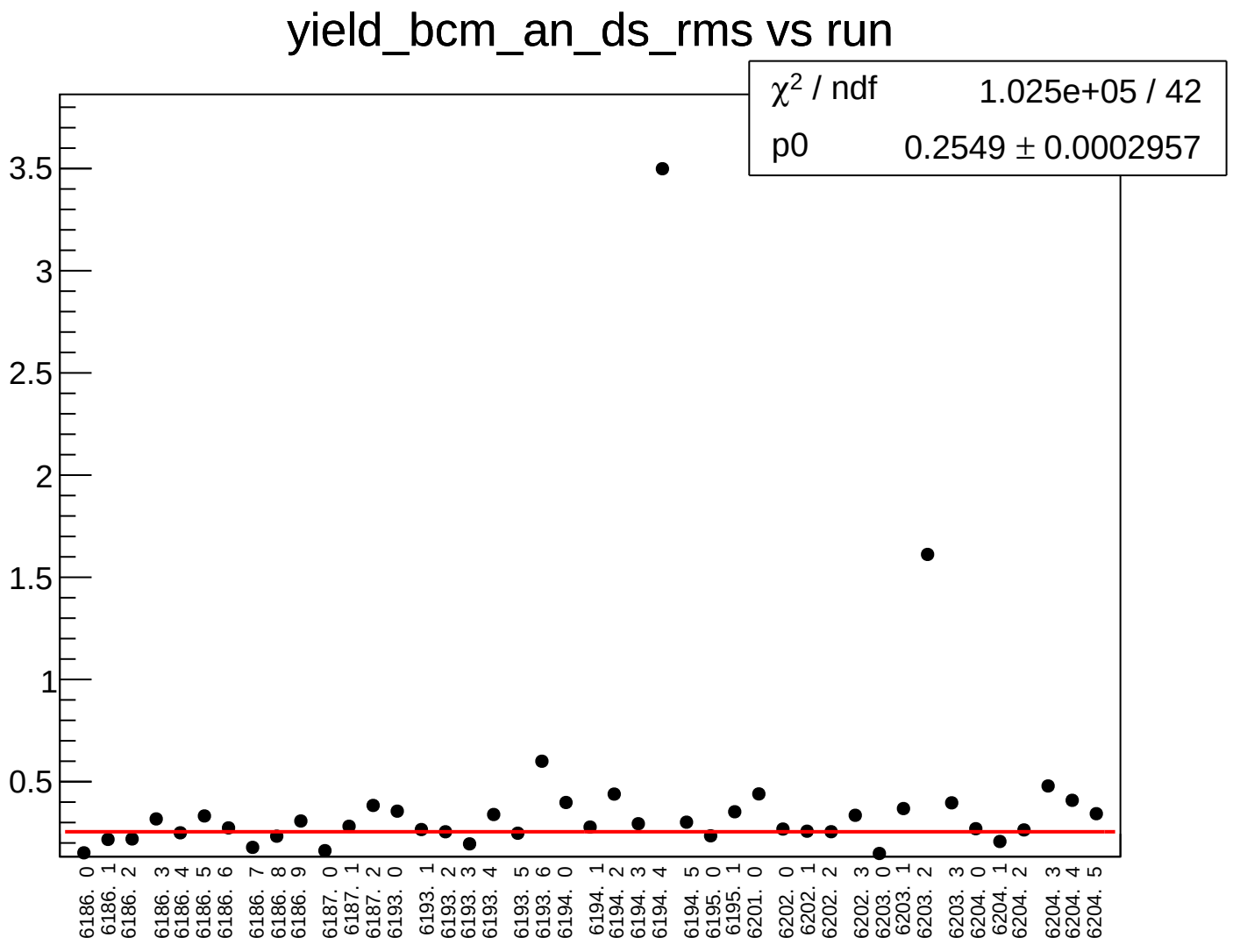

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

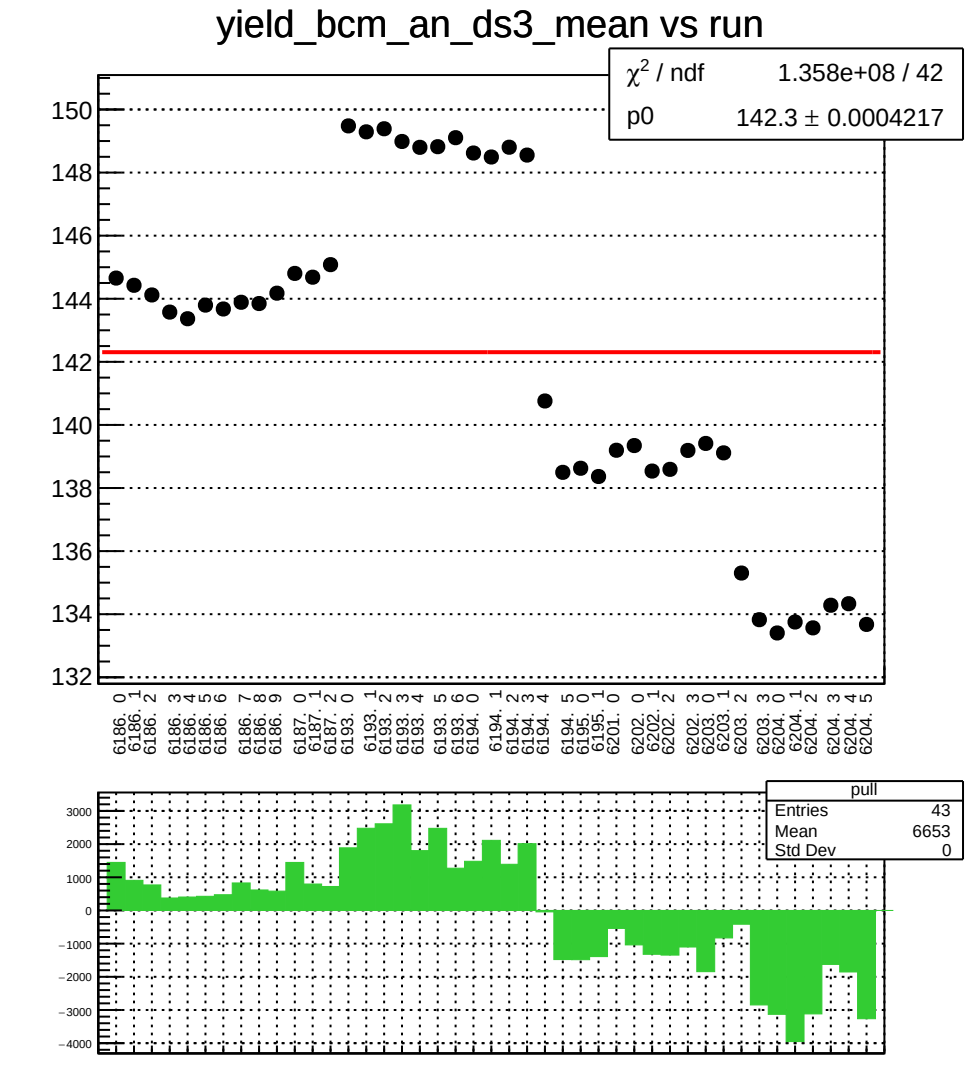

yield_bcm_an_diff_rms vs run
χ² / ndf 4.103e+04 / 42
p0 4821 ± 5.376
11000
10000
9000
8000
7000
6000
5000
4000
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

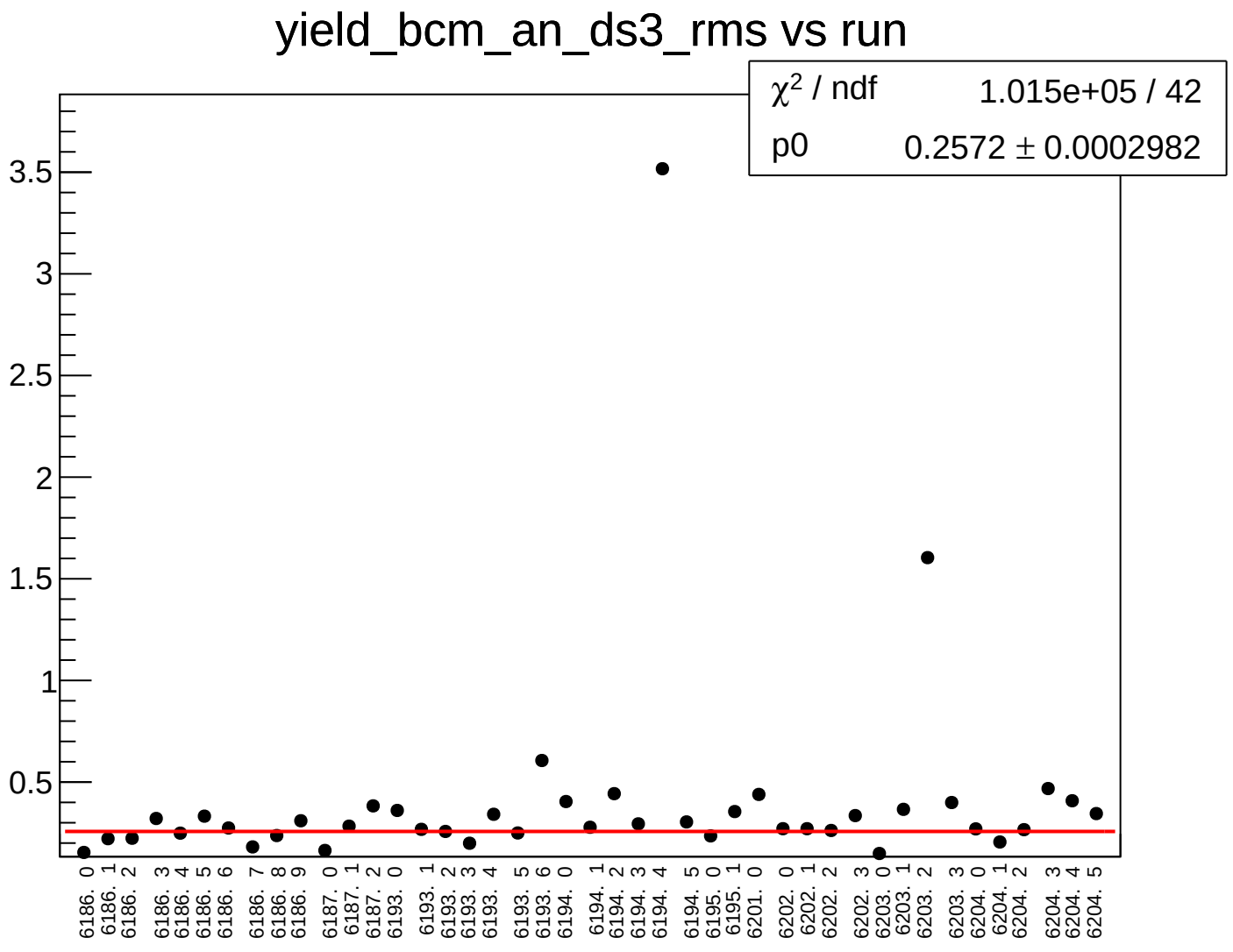

yield_bcm_an_ds_mean vs run
χ² / ndf 1.355e+08 / 42
p0 142.2 ± 0.0004182
150
148
146
144
142
140
138
136
134
132
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

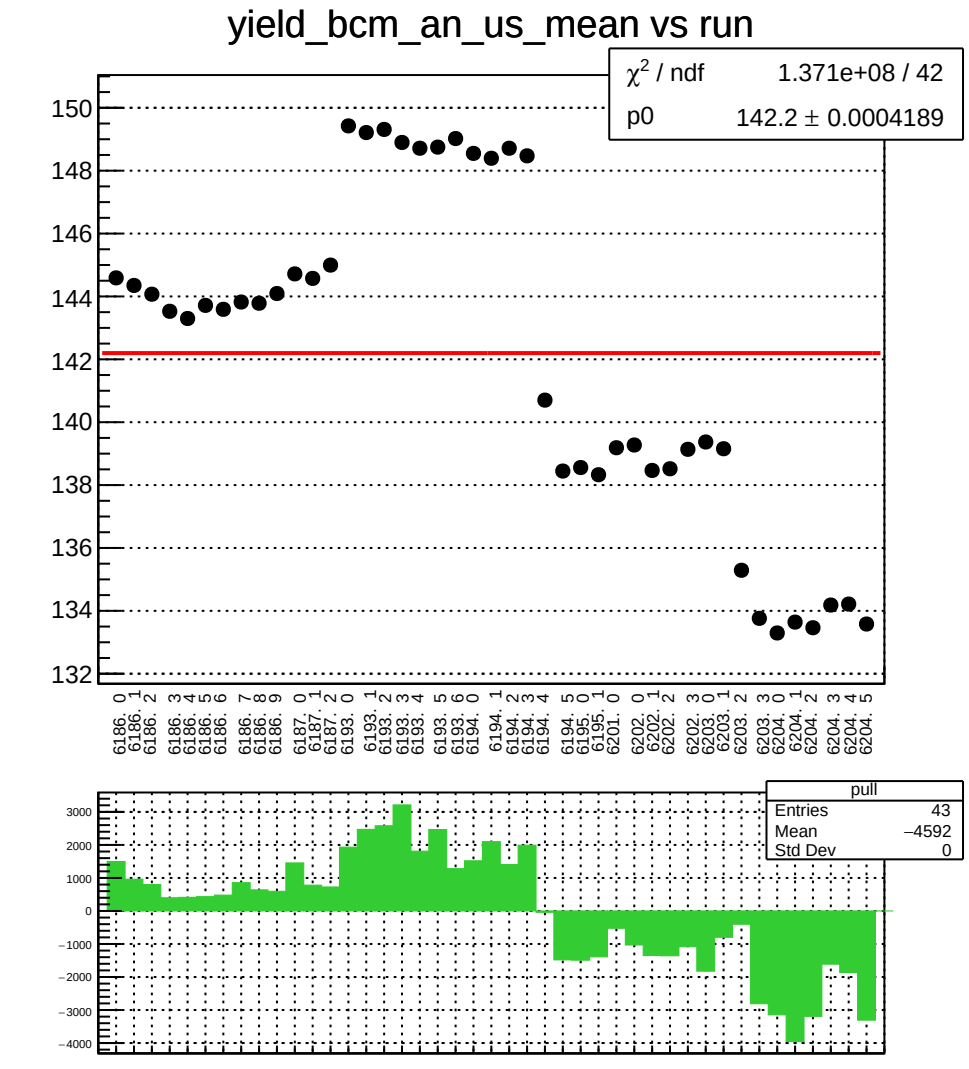

pull
Entries 43
Mean 2519
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
−4000

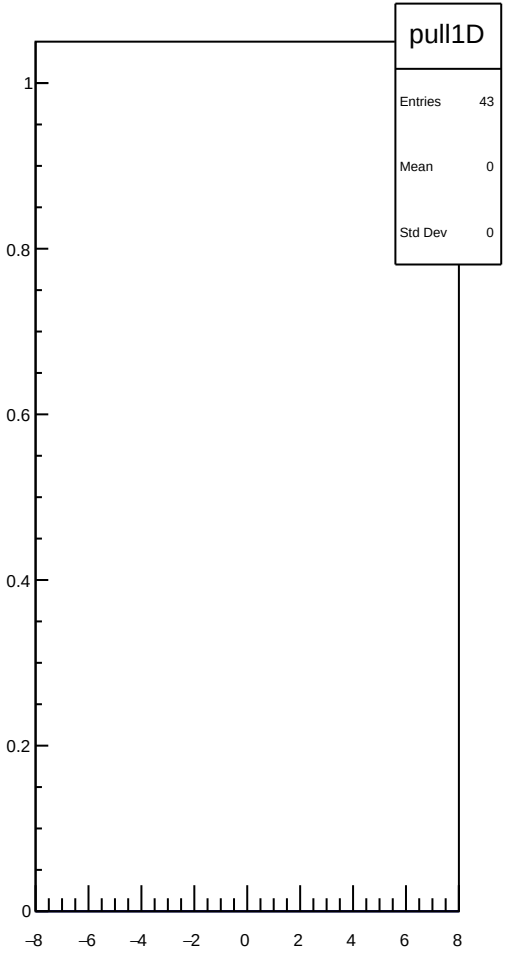

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

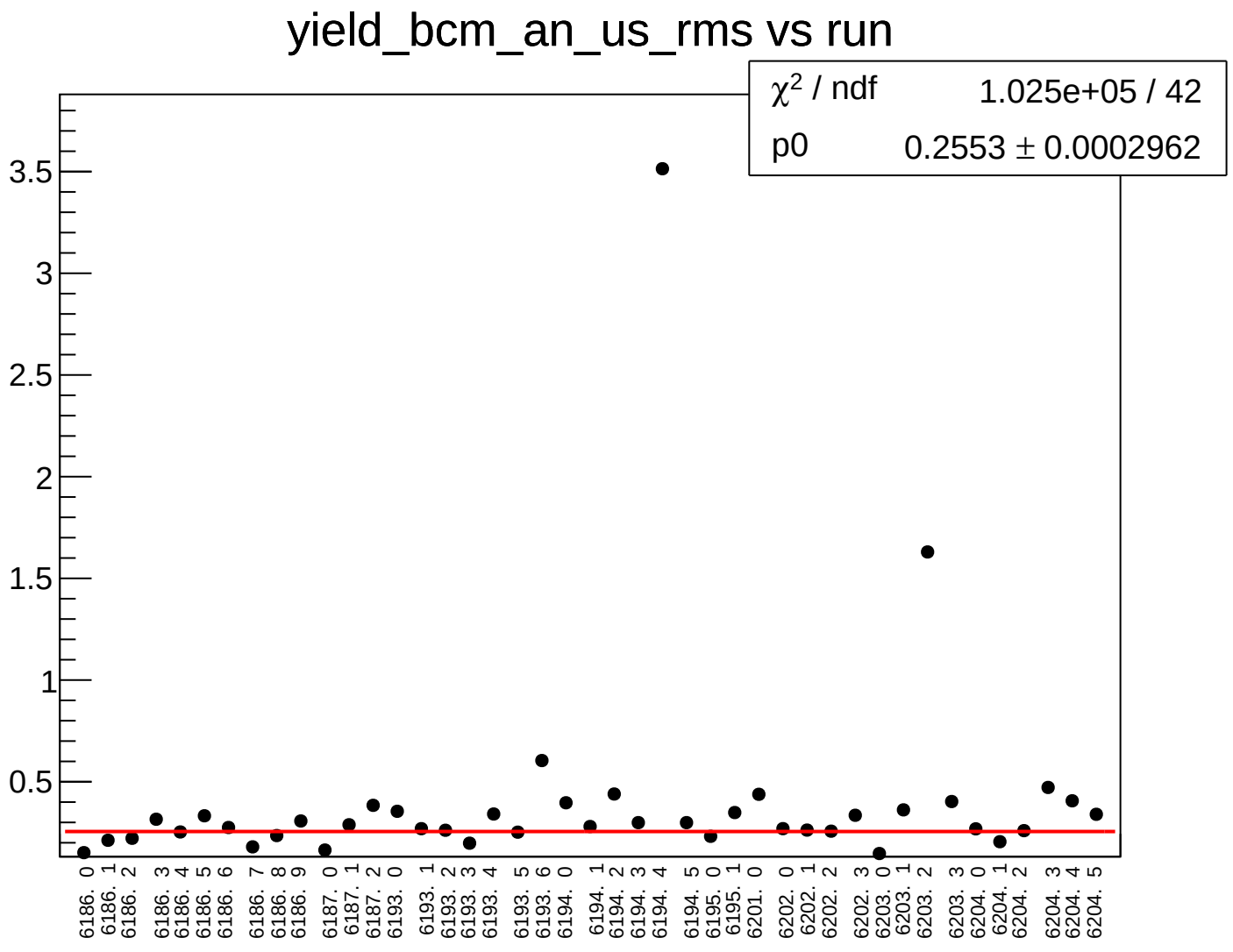

yield_bcm_an_ds_rms vs run
χ² / ndf 1.025e+05 / 42
p0 0.2549 ± 0.0002957
3.5
3
2.5
2
1.5
1
0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

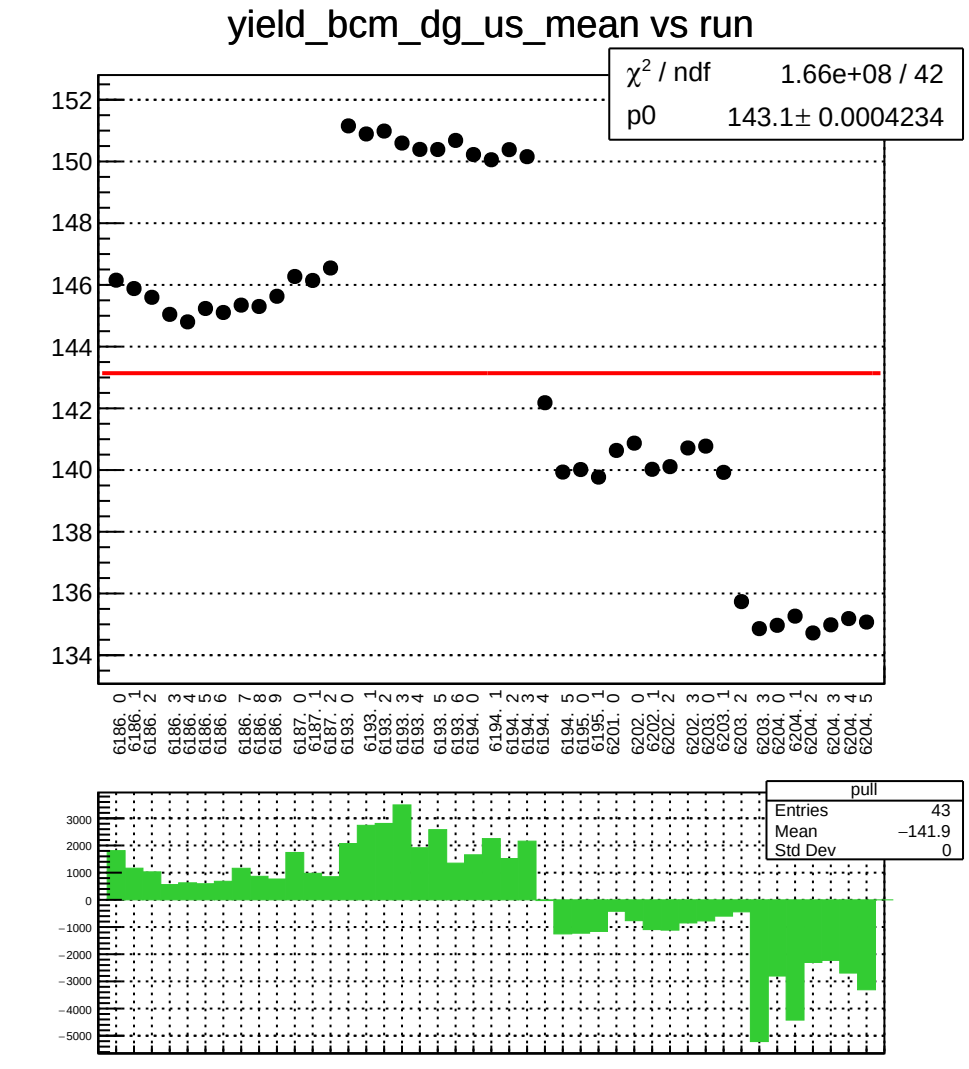

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.358e+08 / 42
p0 142.3 ± 0.0004217
150
148
146
144
142
140
138
136
134
132
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 6653
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

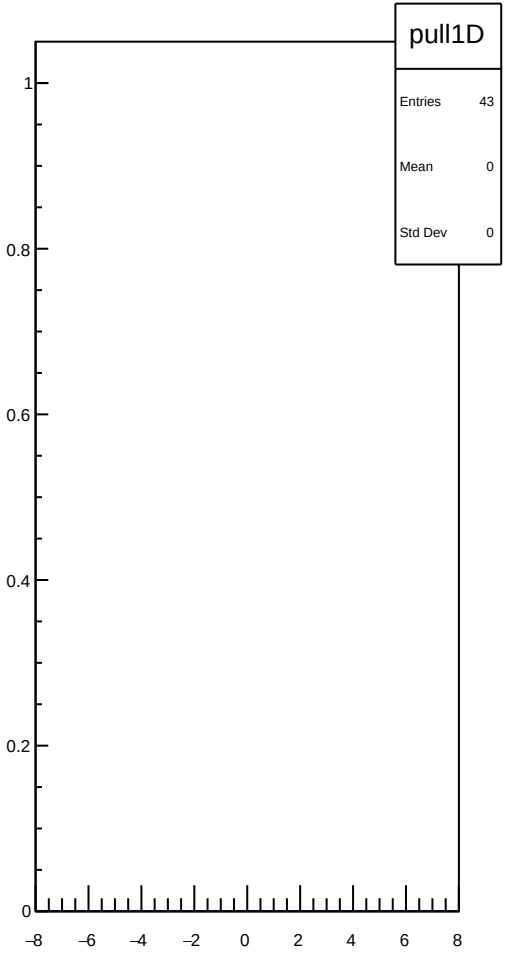

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.015e+05 / 42
p0 0.2572 ± 0.0002982
3.5
3
2.5
2
1.5
1
0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

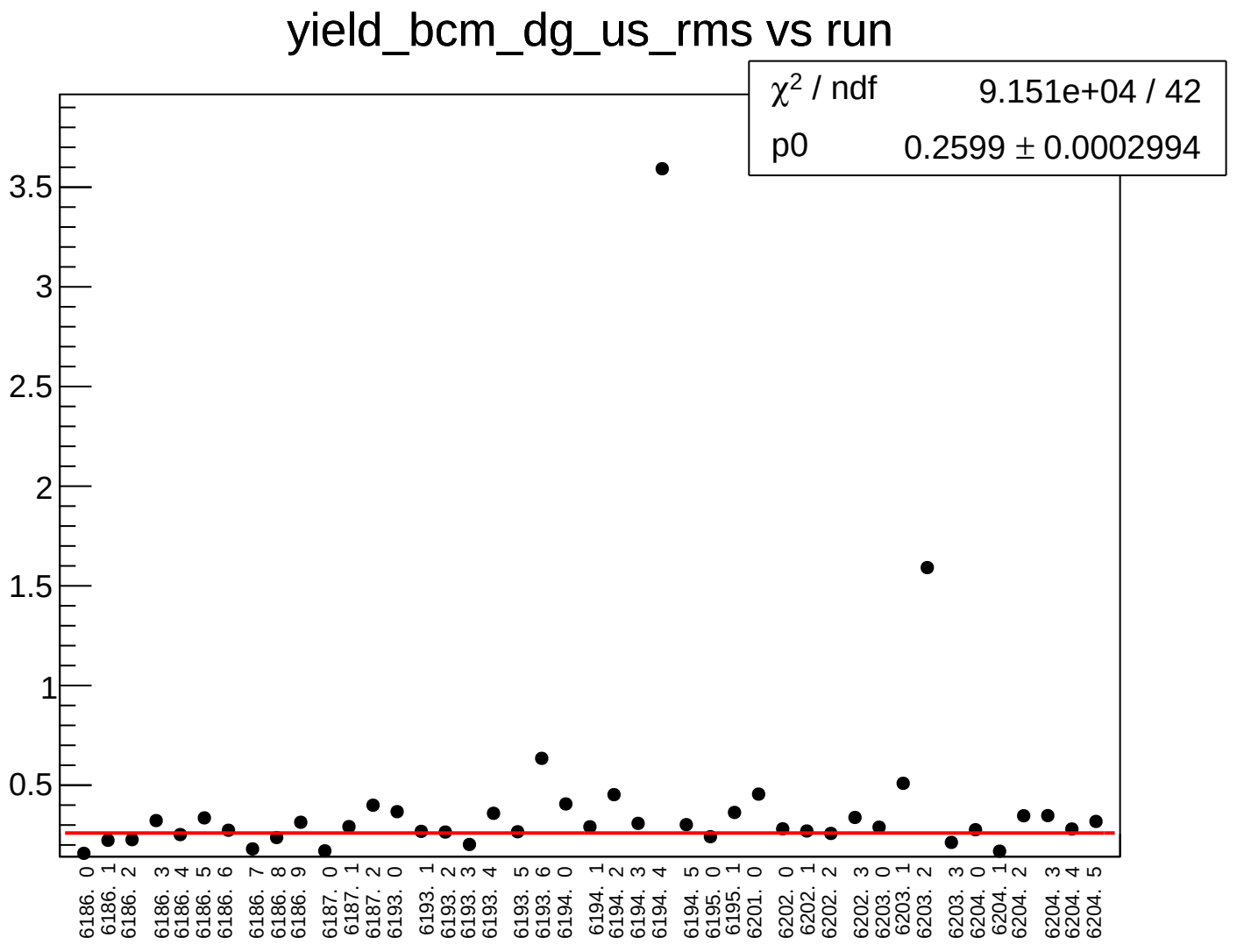

yield_bcm_an_us_mean vs run
χ² / ndf 1.371e+08 / 42
p0 142.2 ± 0.0004189
150
148
146
144
142
140
138
136
134
132
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −4592
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
−4000

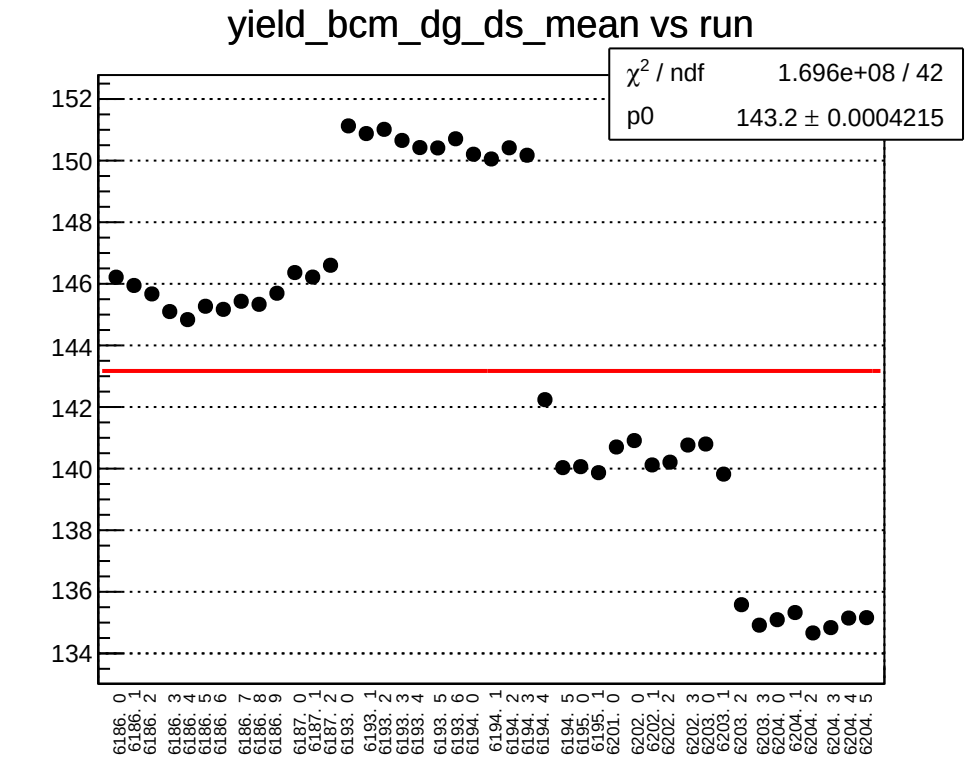

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

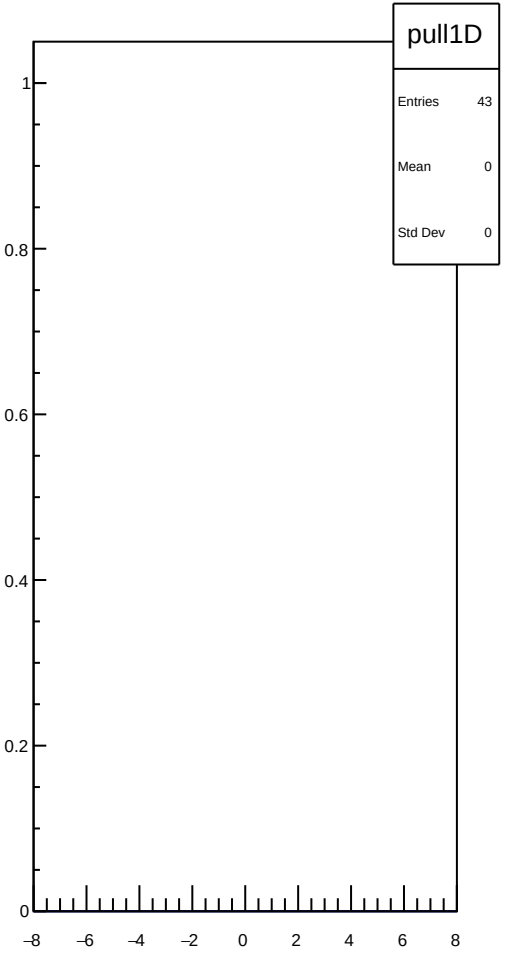

yield_bcm_an_us_rms vs run
χ² / ndf 1.025e+05 / 42
p0 0.2553 ± 0.0002962
3.5
3
2.5
2
1.5
1
0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

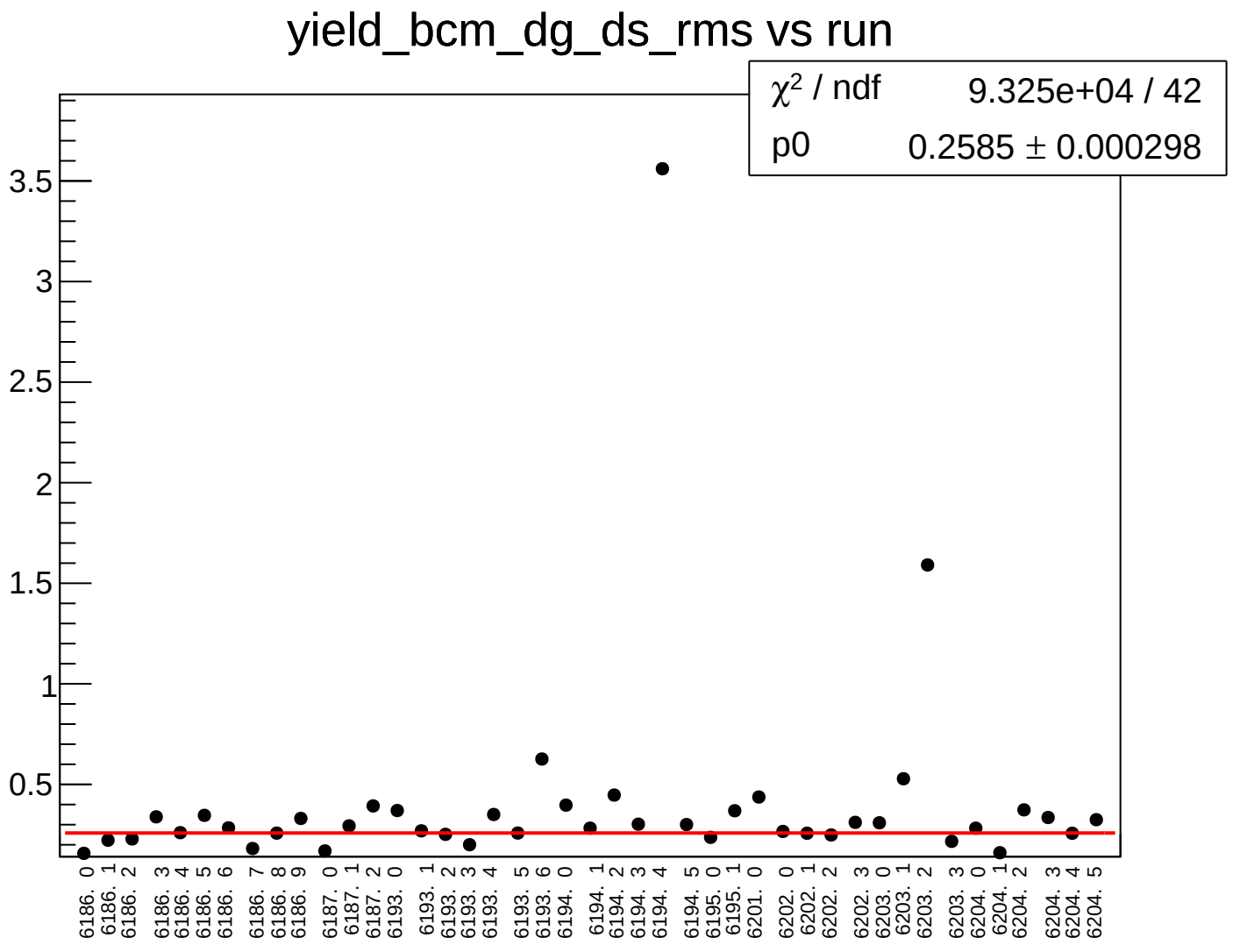

yield_bcm_dg_us_mean vs run
χ² / ndf 1.66e+08 / 42
p0 143.1± 0.0004234
152
150
148
146
144
142
140
138
136
134
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −141.9
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000

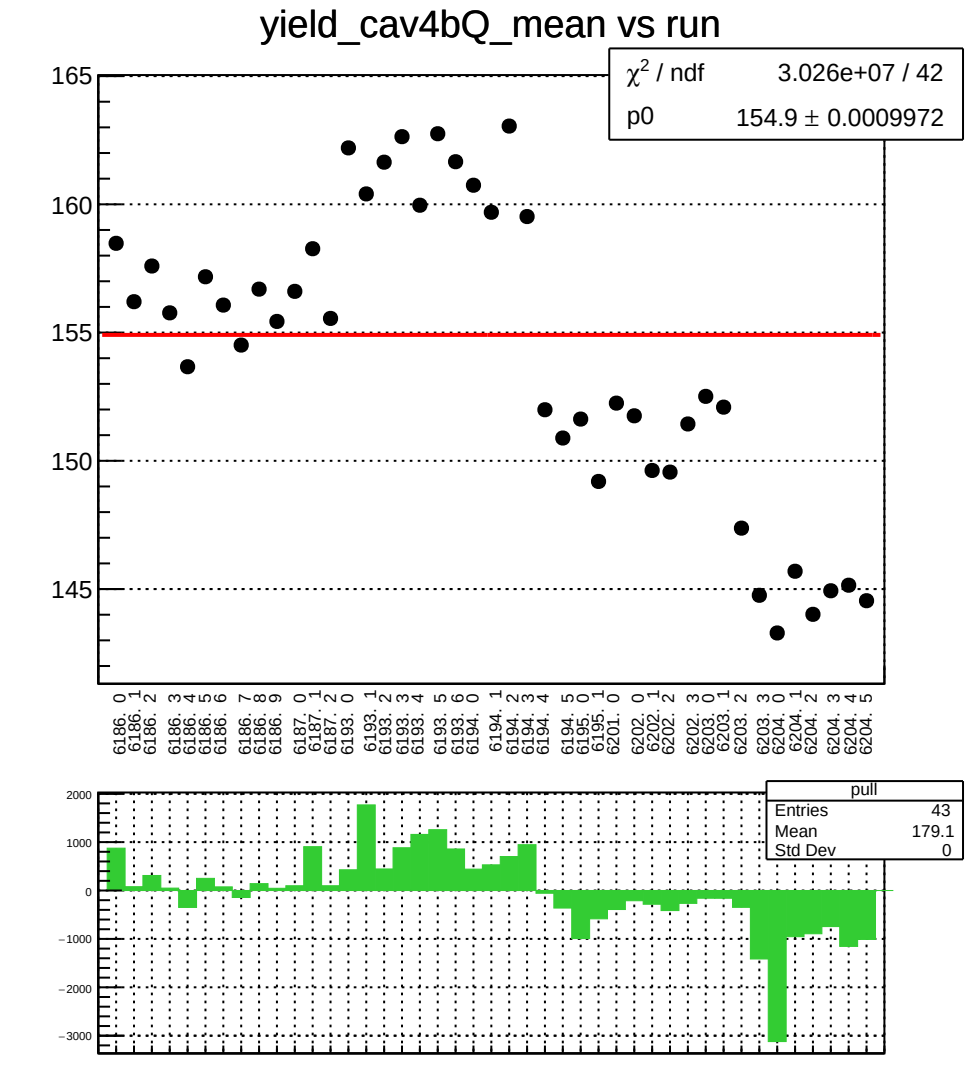

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

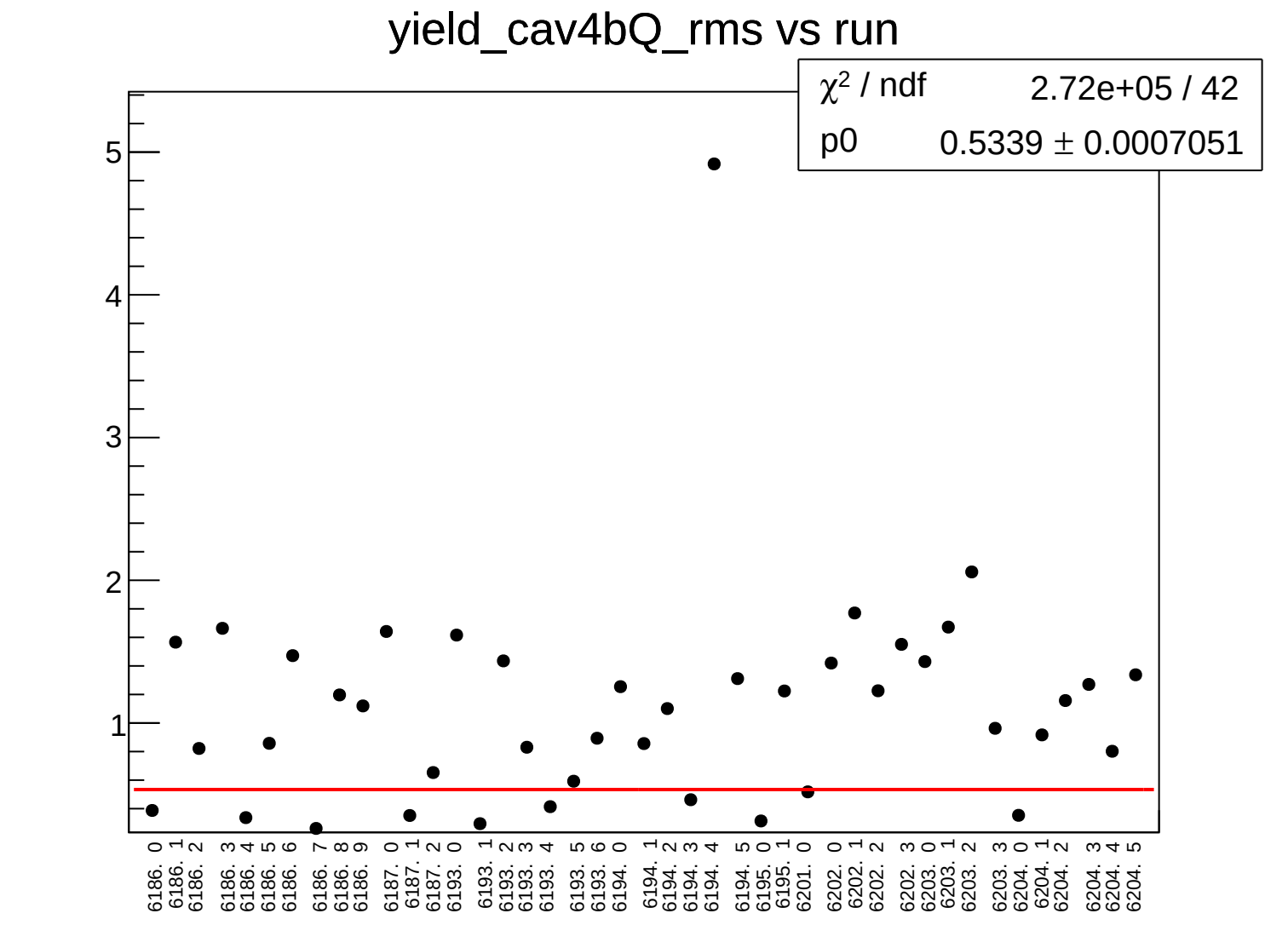

yield_bcm_dg_us_rms vs run
χ² / ndf 9.151e+04 / 42
p0 0.2599 ± 0.0002994
3.5
3
2.5
2
1.5
1
0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

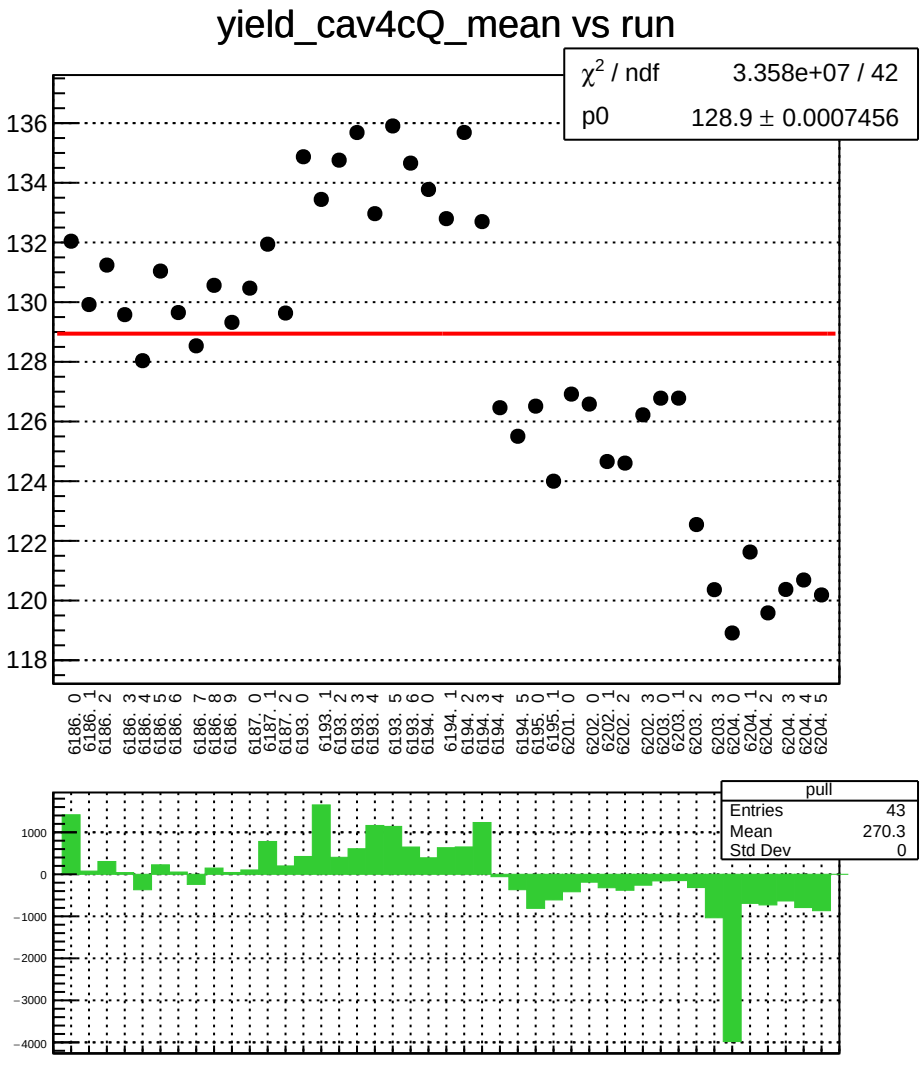

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.696e+08 / 42
p0 143.2 ± 0.0004215
152
150
148
146
144
142
140
138
136
134
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −138.2
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000

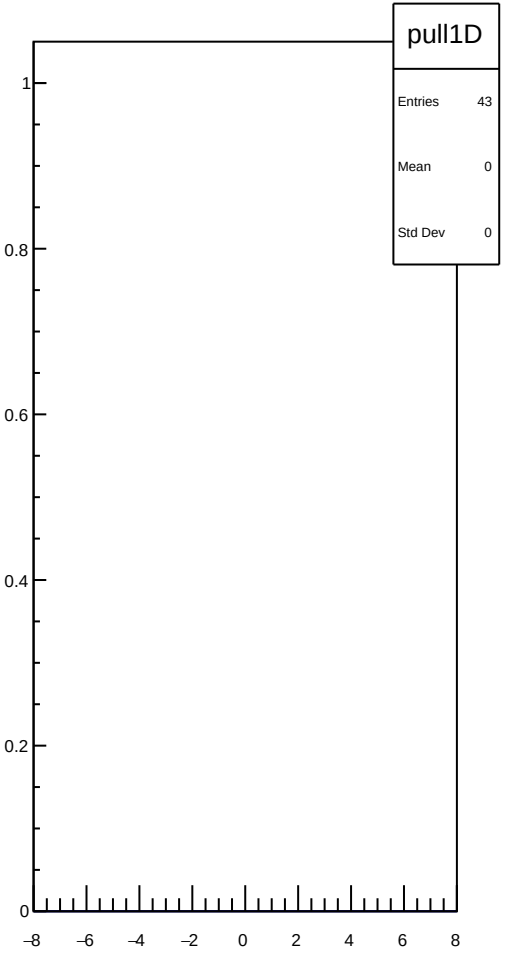

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

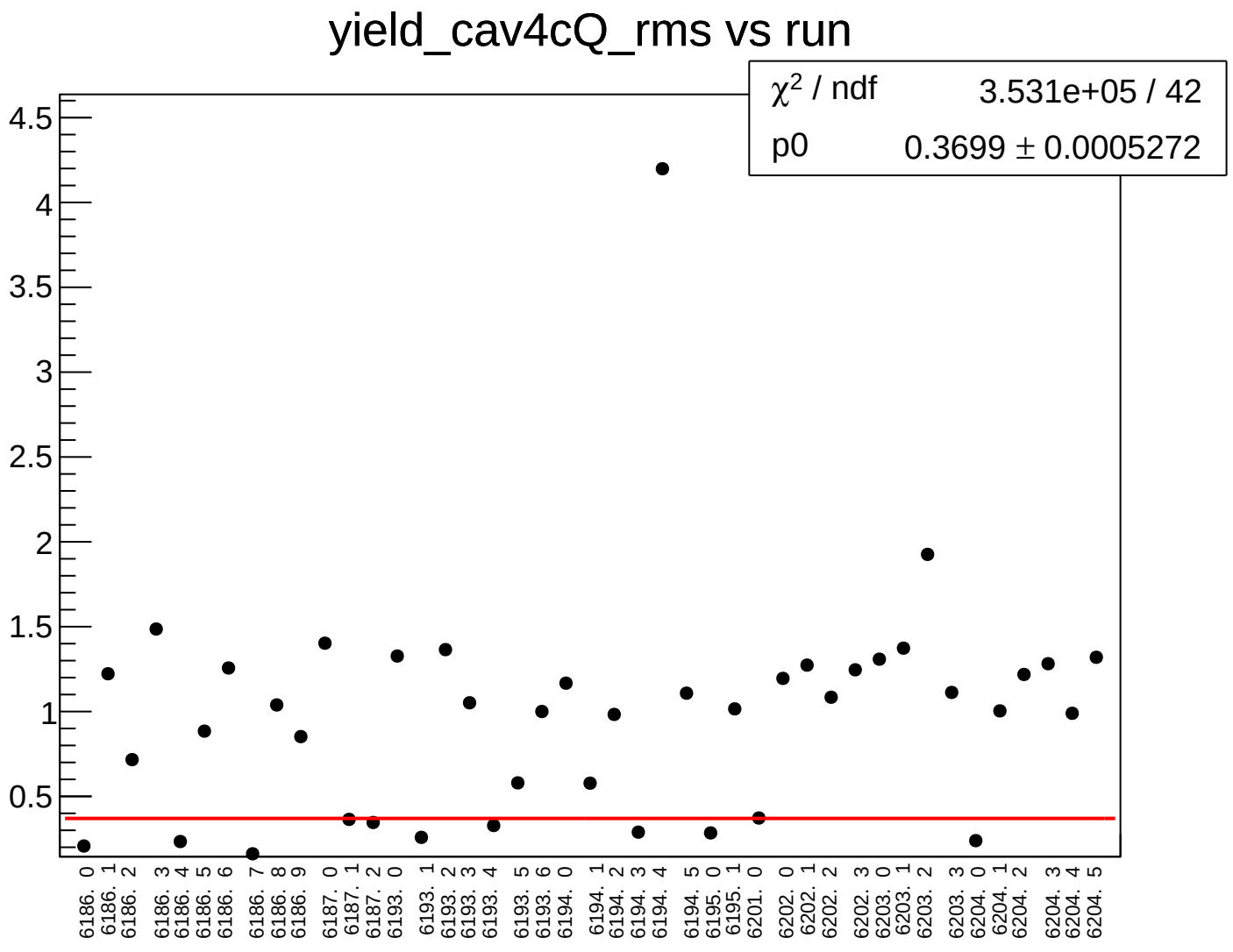

yield_bcm_dg_ds_rms vs run
χ² / ndf 9.325e+04 / 42
p0 0.2585 ± 0.000298
3.5
3
2.5
2
1.5
1
0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

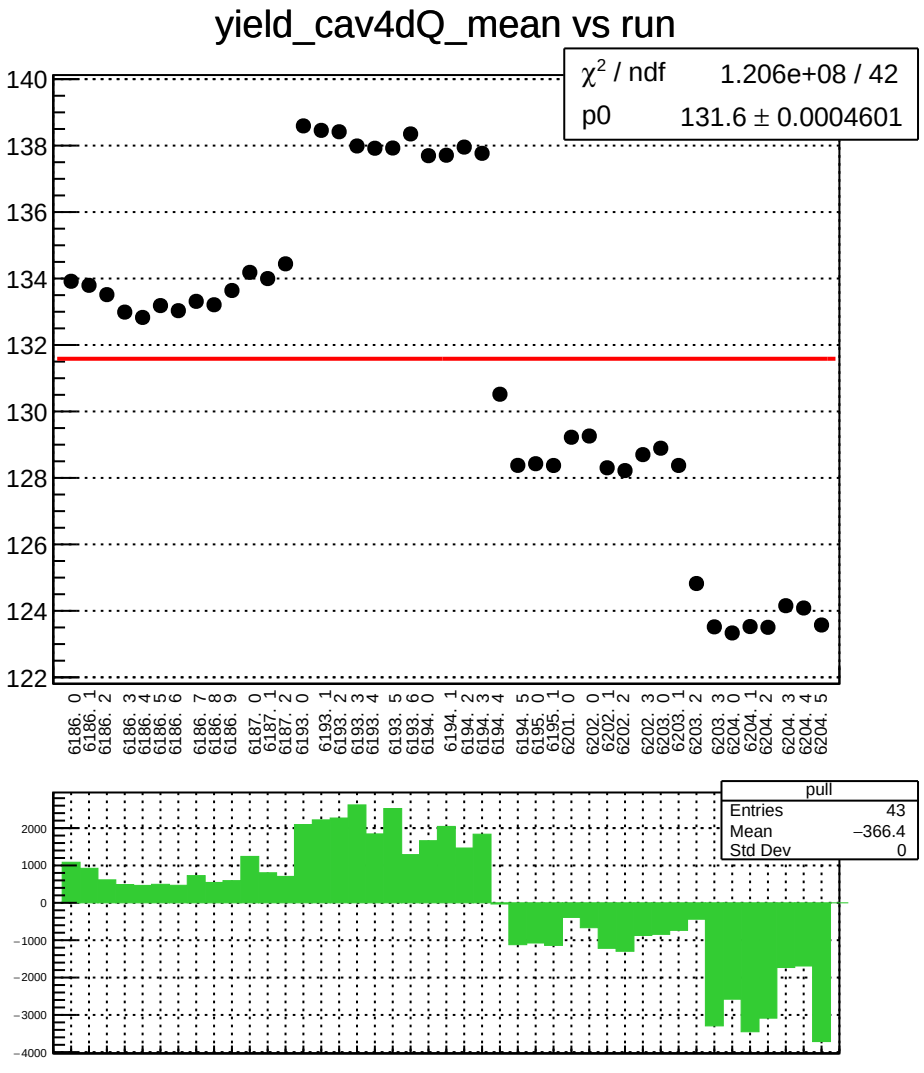

yield_cav4bQ_mean vs run
χ² / ndf 3.026e+07 / 42
p0 154.9 ± 0.0009972
165
160
155
150
145
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
2000
1000
0
−1000
−2000
−3000
pull
Entries 43
Mean 179.1
Std Dev 0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

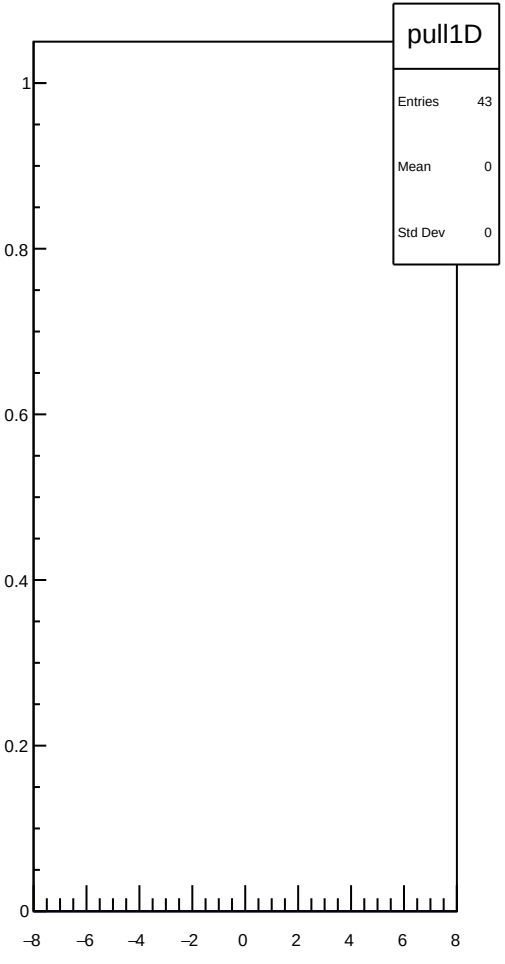

yield_cav4bQ_rms vs run
χ² / ndf 2.72e+05 / 42
p0 0.5339 ± 0.0007051
5
4
3
2
1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

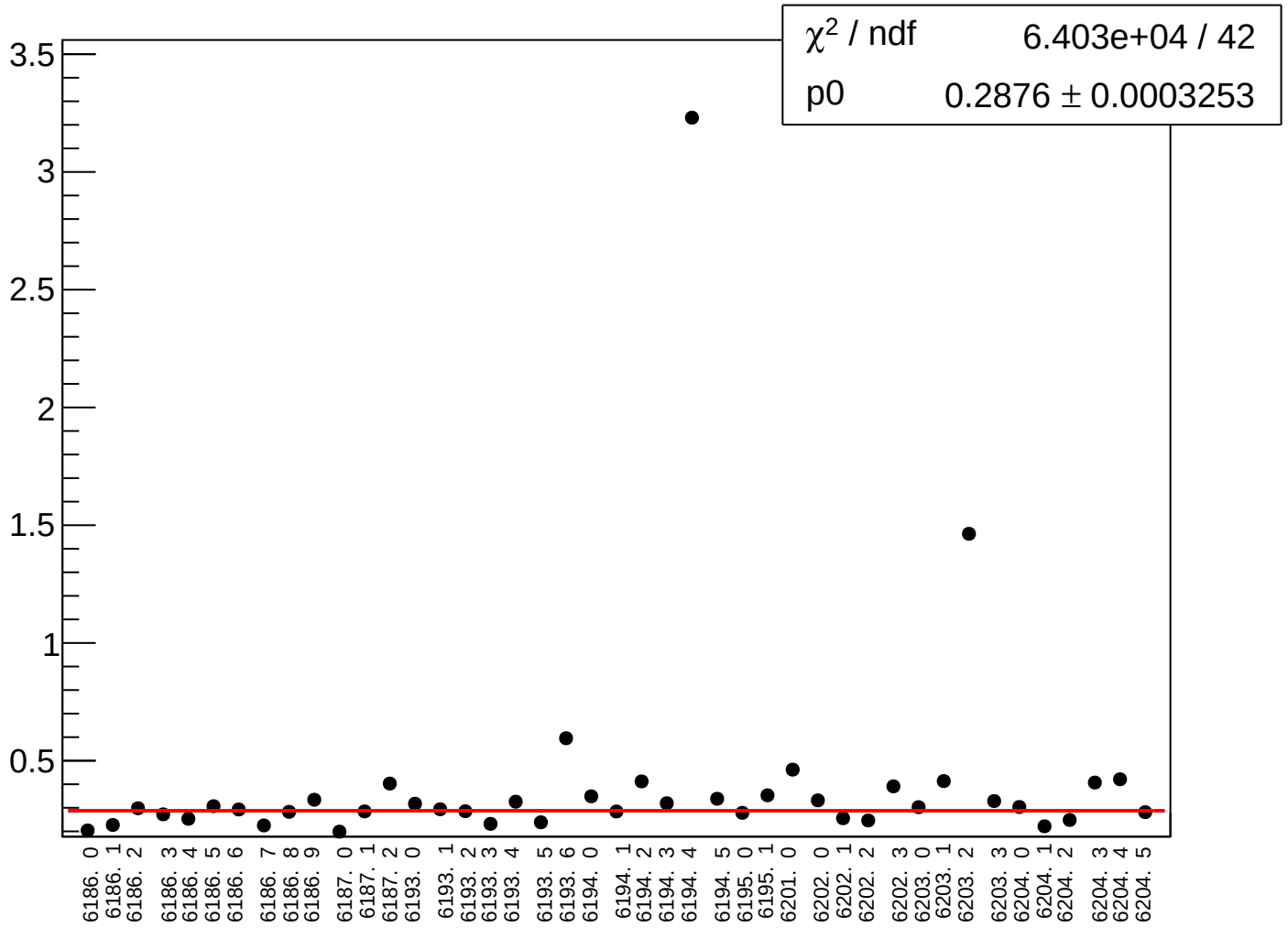

yield_cav4cQ_mean vs run
χ² / ndf 3.358e+07 / 42
p0 128.9 ± 0.0007456
136
134
132
130
128
126
124
122
120
118
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 270.3
Std Dev 0
1000
0
−1000
−2000
−3000
−4000

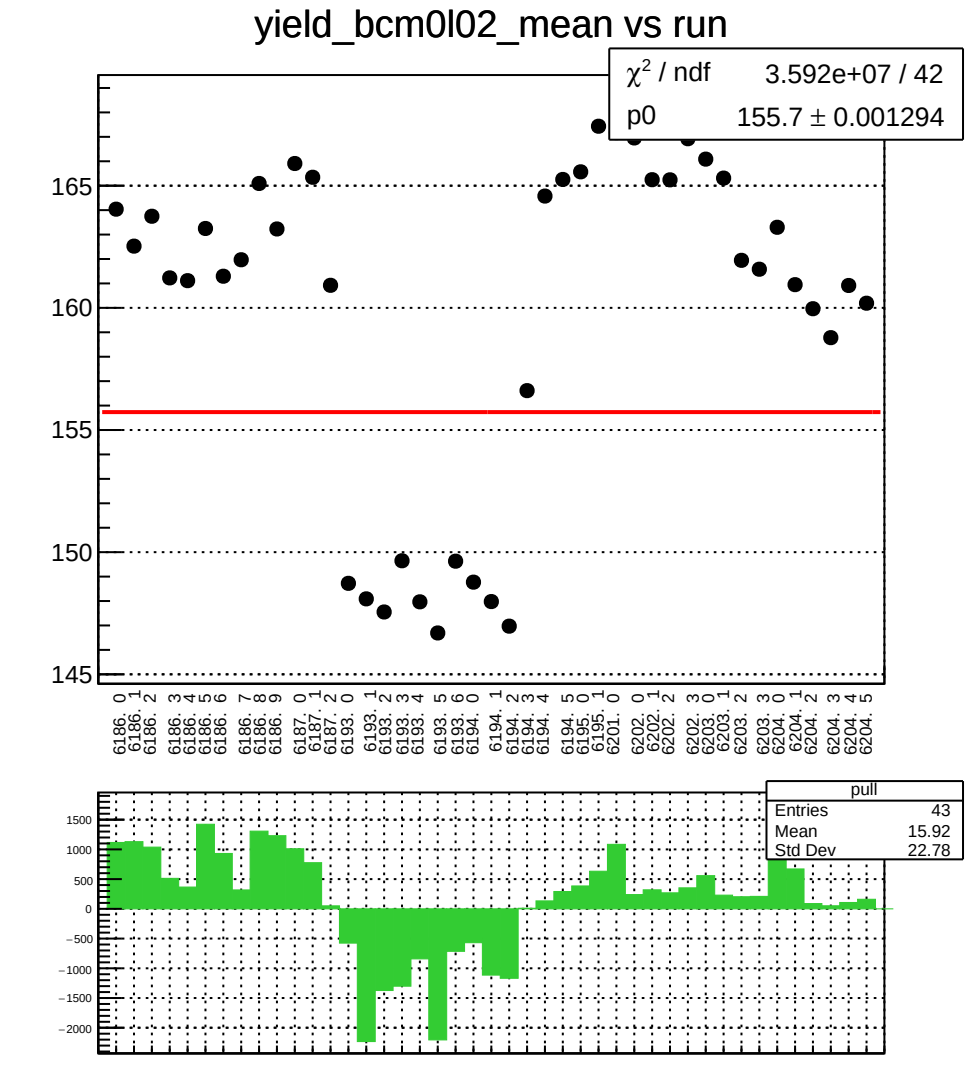

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

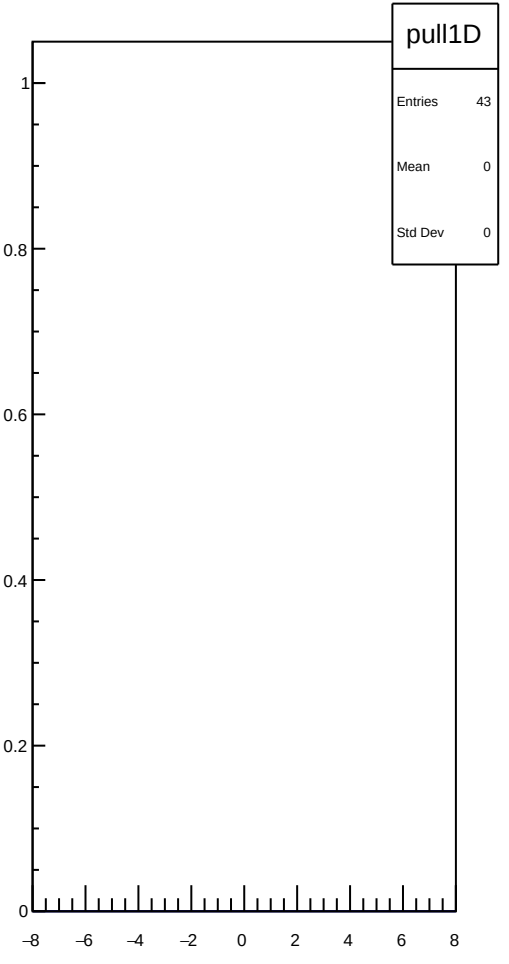

yield_cav4cQ_rms vs run
χ² / ndf 3.531e+05 / 42
p0 0.3699 ± 0.0005272
4.5
4
3.5
3
2.5
2
1.5
1
0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

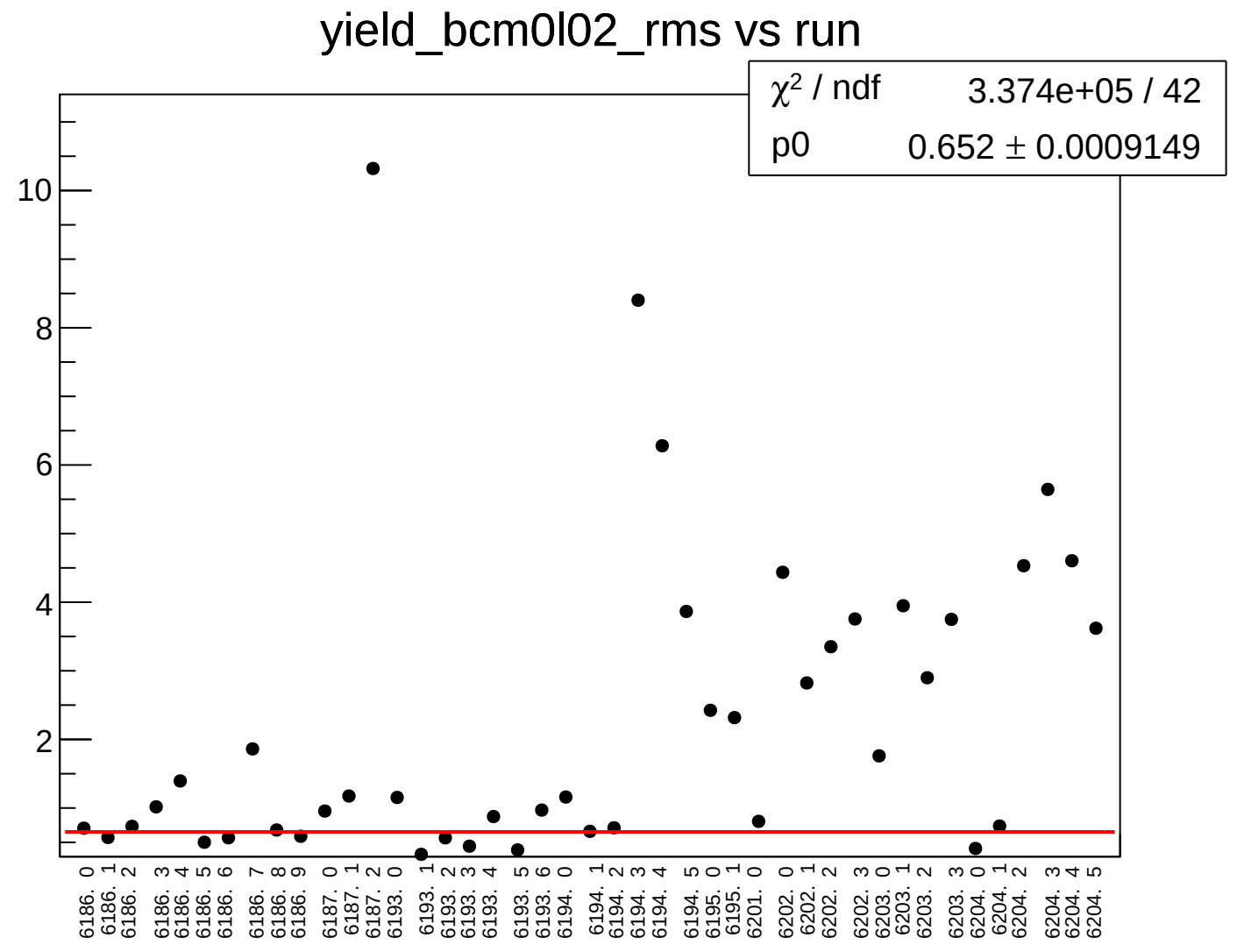

yield_cav4dQ_mean vs run
χ² / ndf 1.206e+08 / 42
p0 131.6 ± 0.0004601
pull
Entries 43
Mean −366.4
Std Dev 0

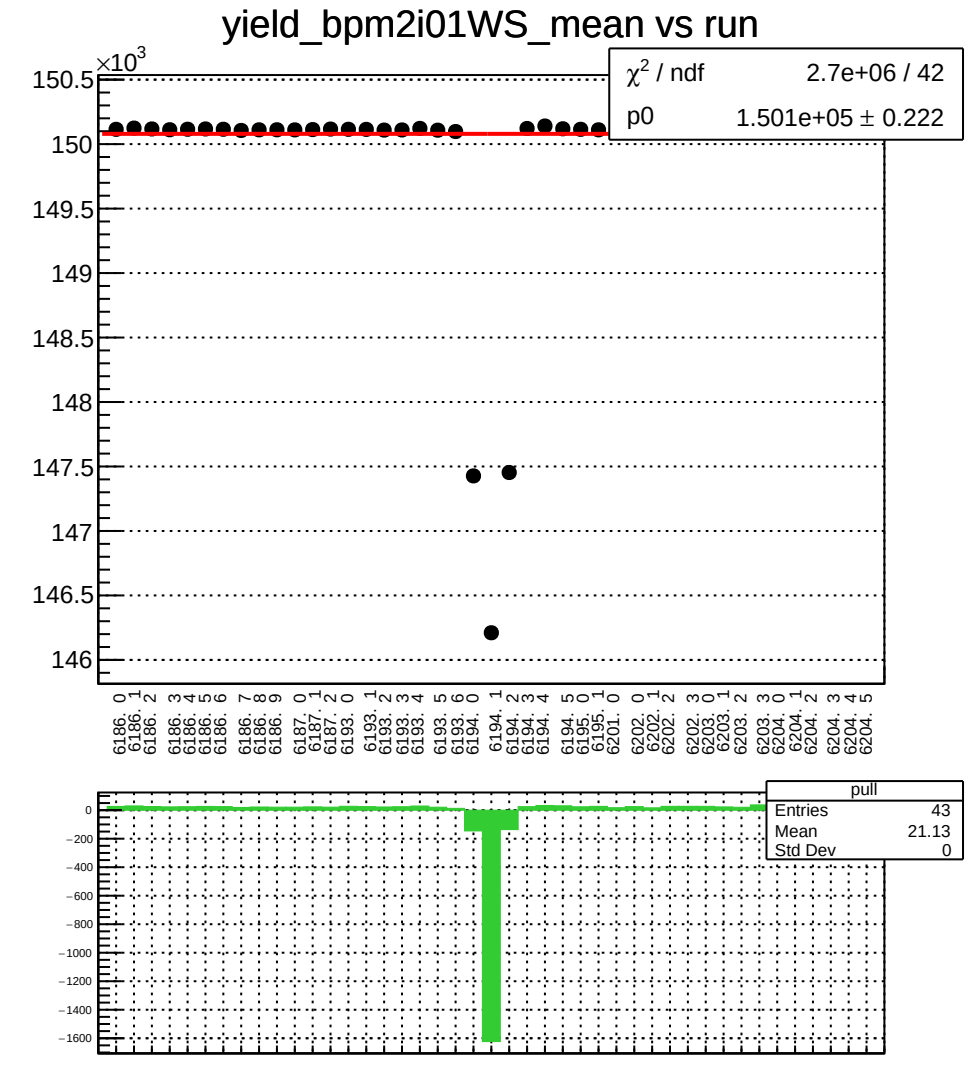

pull1D
Entries 43
Mean 0
Std Dev 0

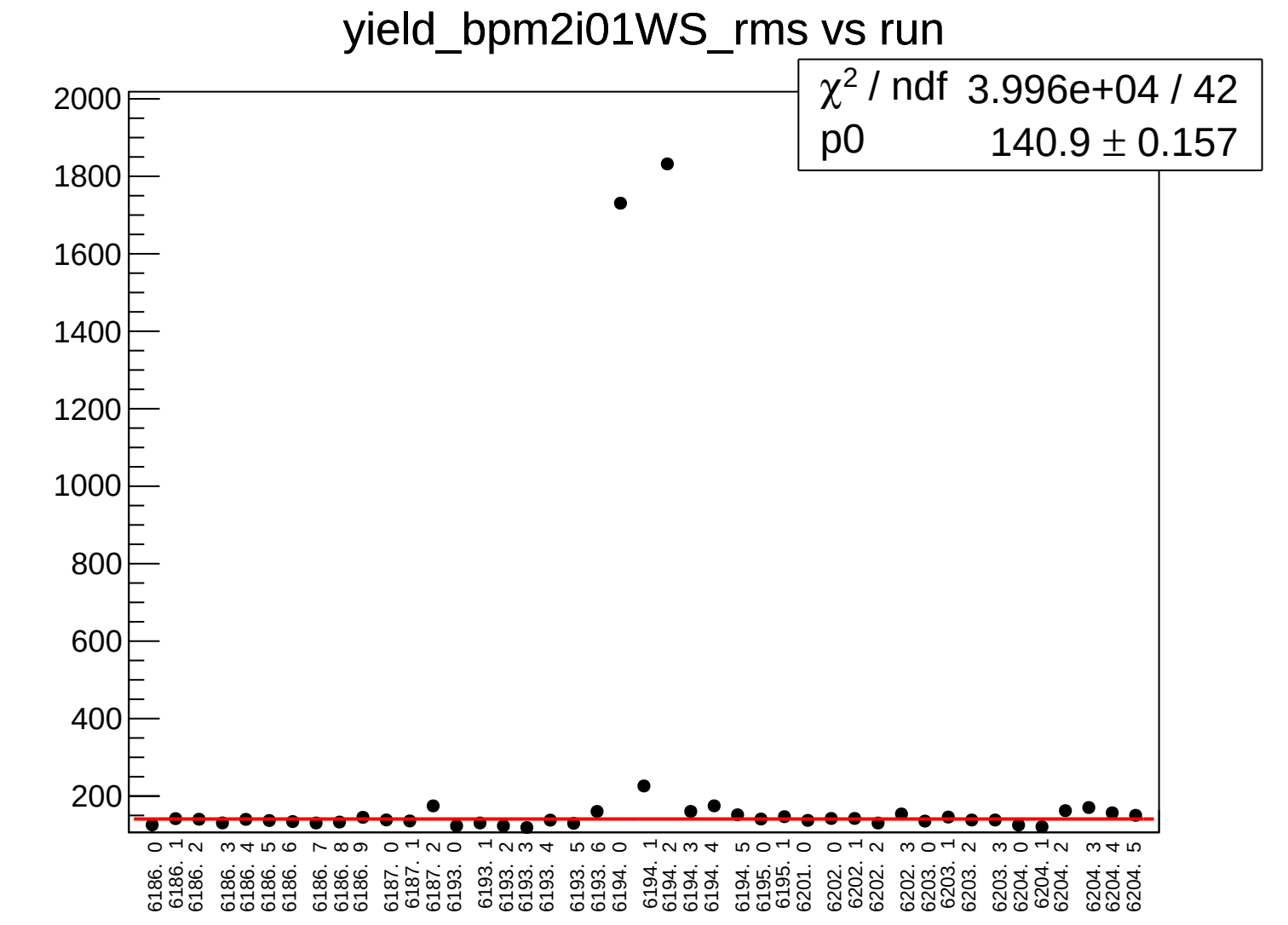

yield_cav4dQ_rms vs run
χ² / ndf 6.403e+04 / 42
p0 0.2876 ± 0.0003253
3.5
3
2.5
2
1.5
1
0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

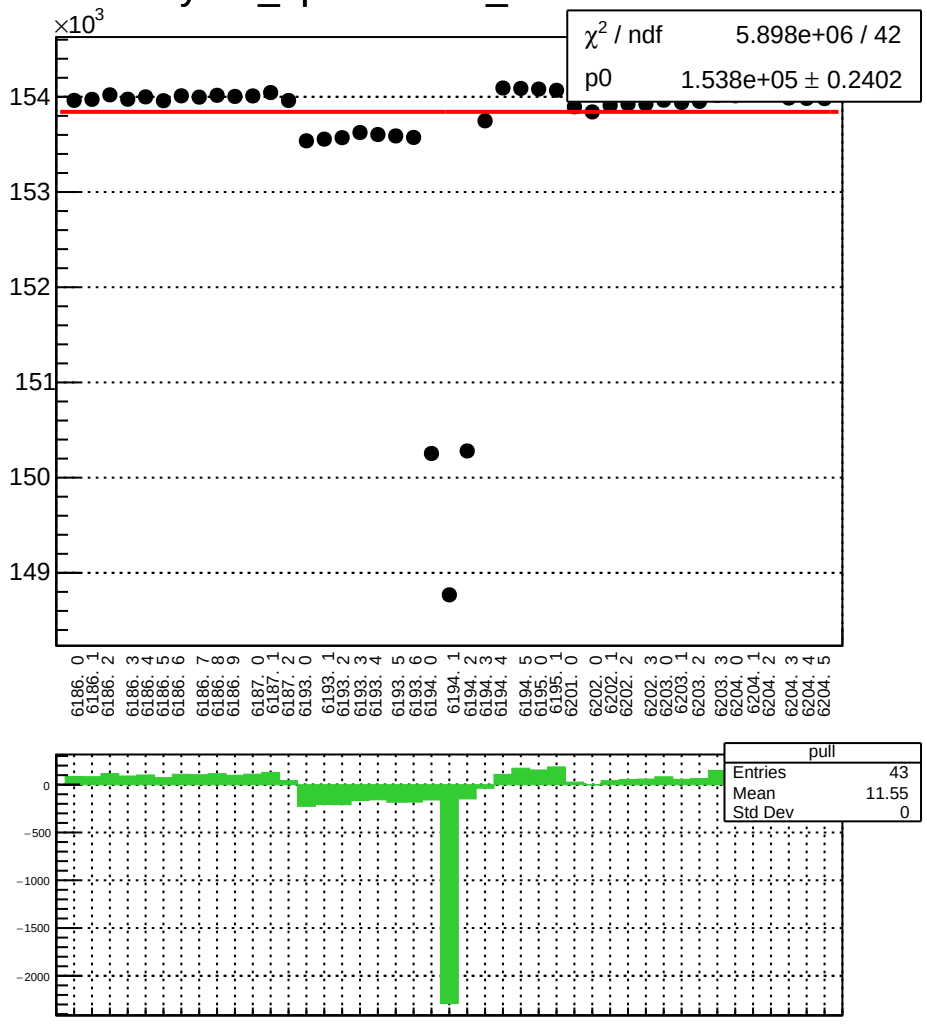

yield_bcm0l02_mean vs run
χ² / ndf 3.592e+07 / 42
p0 155.7 ± 0.001294
165
160
155
150
145
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 15.92
Std Dev 22.78
1500
1000
500
0
−500
−1000
−1500
−2000

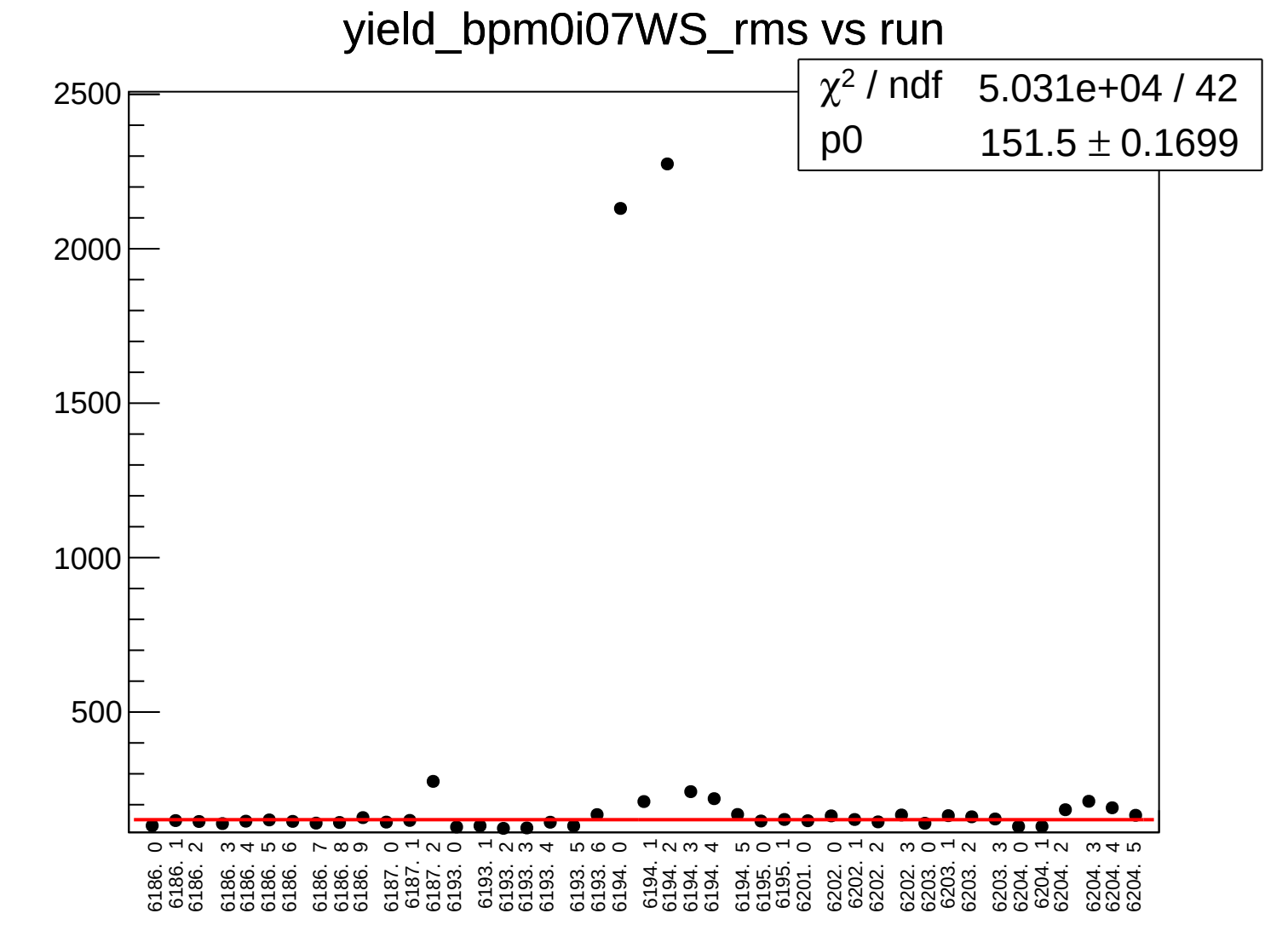

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

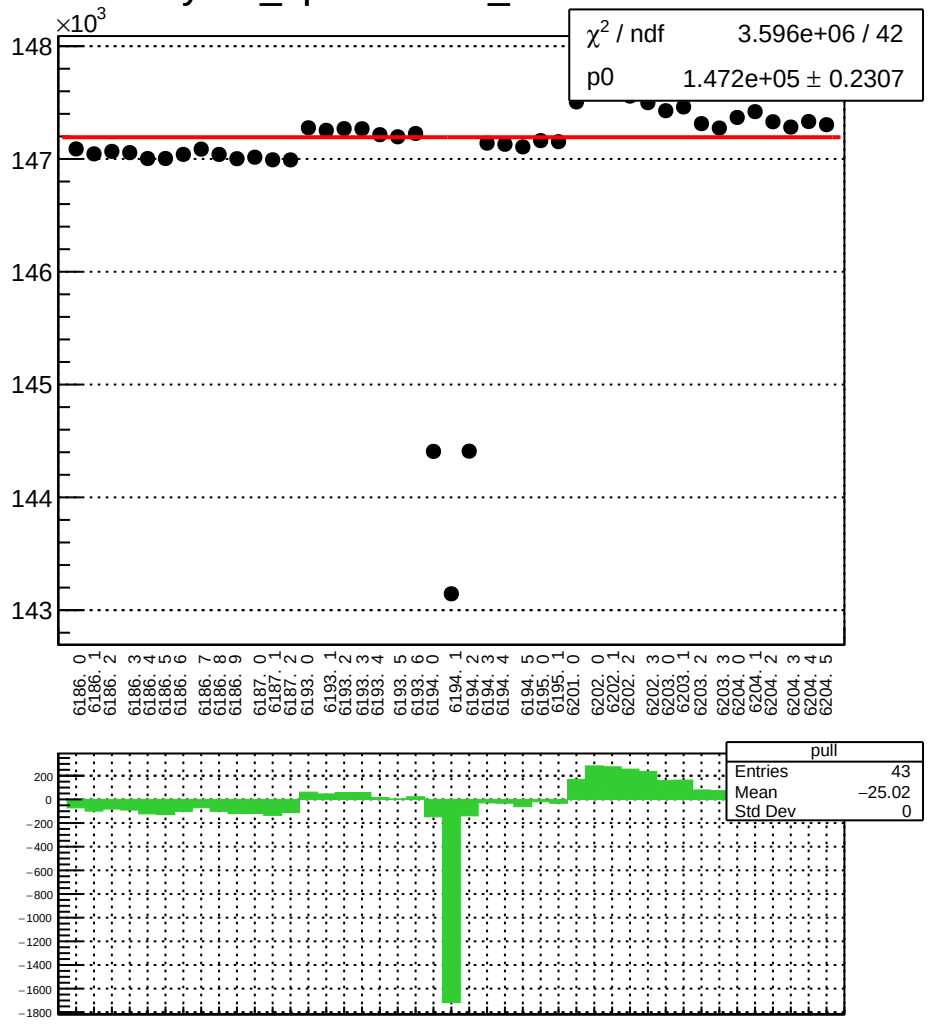

yield_bcm0l02_rms vs run
χ² / ndf 3.374e+05 / 42
p0 0.652 ± 0.0009149
10
8
6
4
2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

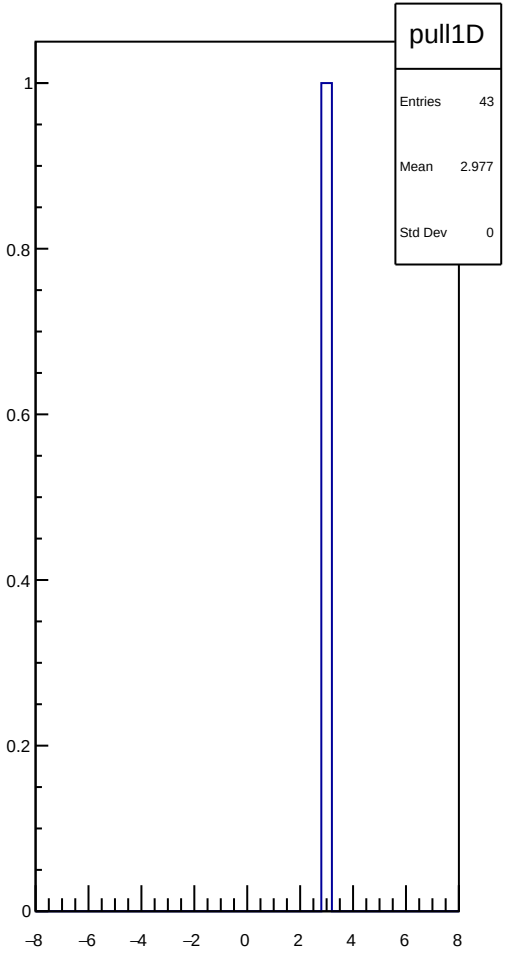

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.7e+06 / 42
p0 1.501e+05 ± 0.222
150.5
150
149.5
149
148.5
148
147.5
147
146.5
146
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 21.13
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

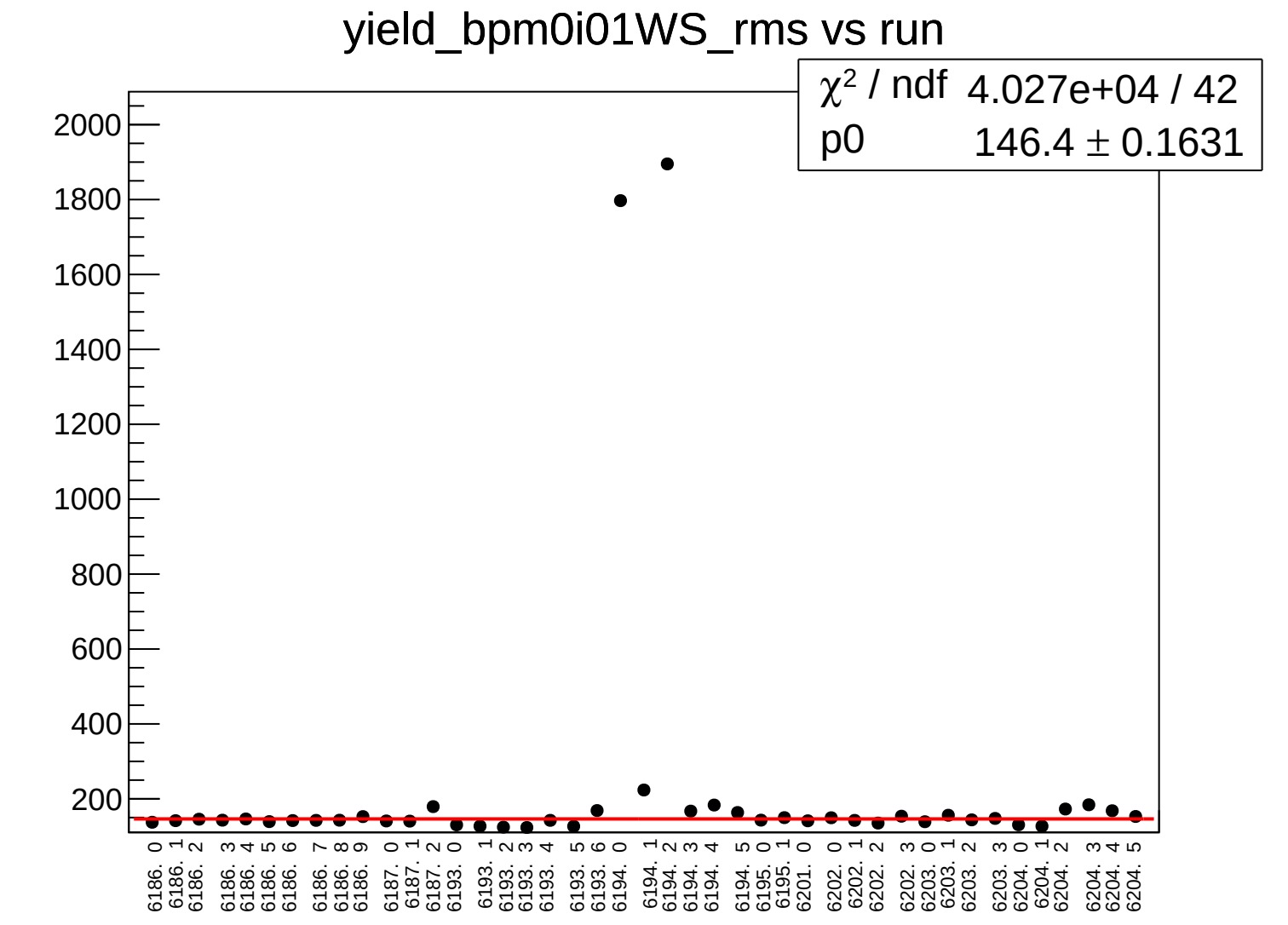

yield_bpm2i01WS_rms vs run
χ² / ndf 3.996e+04 / 42
p0 140.9 ± 0.157
2000
1800
1600
1400
1200
1000
800
600
400
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

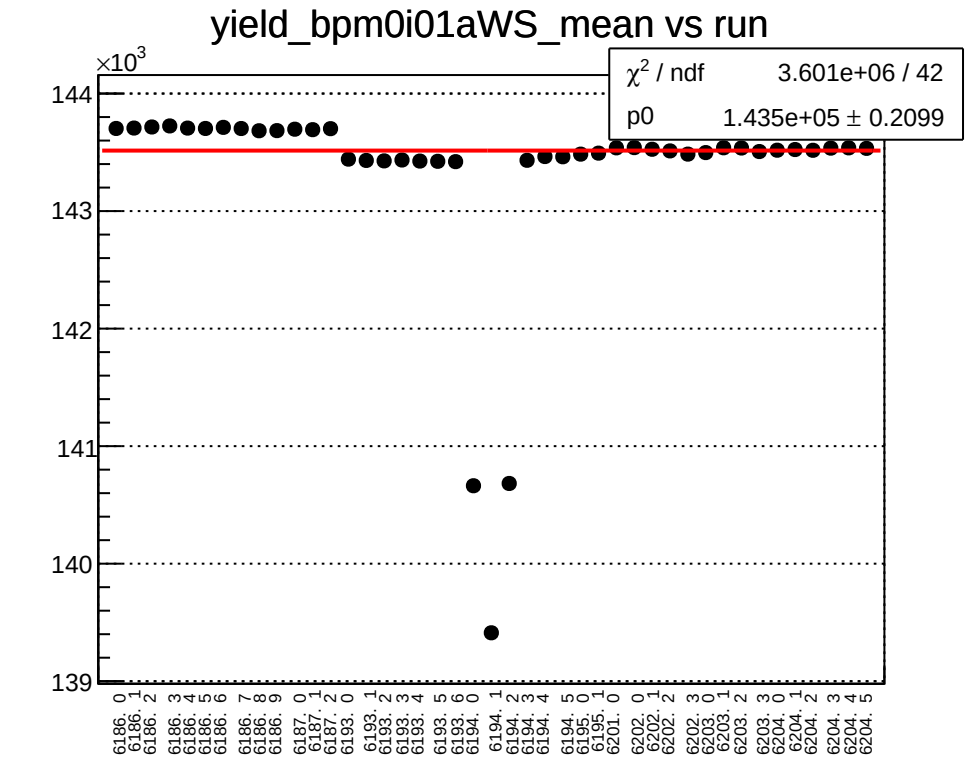

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 5.898e+06 / 42
p0 1.538e+05 ± 0.2402
154
153
152
151
150
149
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 11.55
Std Dev 0
0
−500
−1000
−1500
−2000
pull1D
Entries 43
Mean −0.5712
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

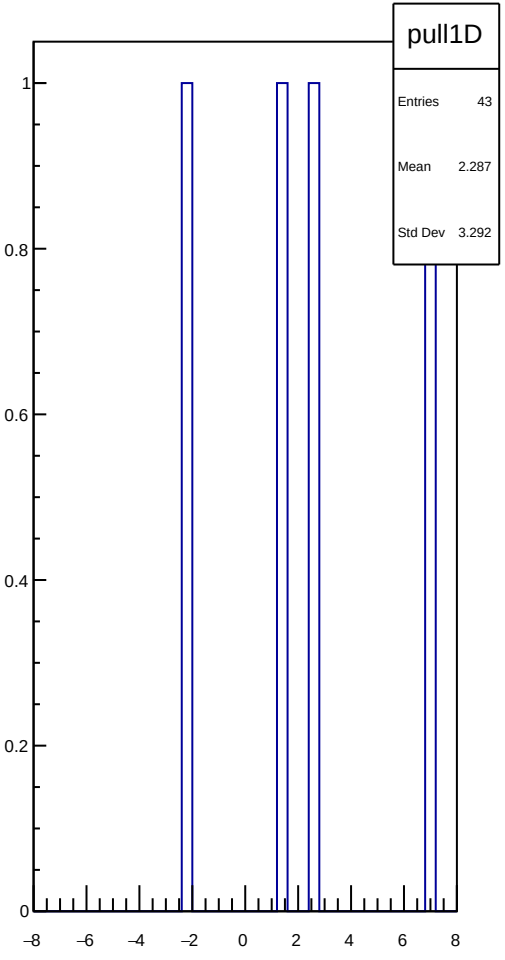

yield_bpm0i07WS_rms vs run
χ² / ndf 5.031e+04 / 42
p0 151.5 ± 0.1699
2500
2000
1500
1000
500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

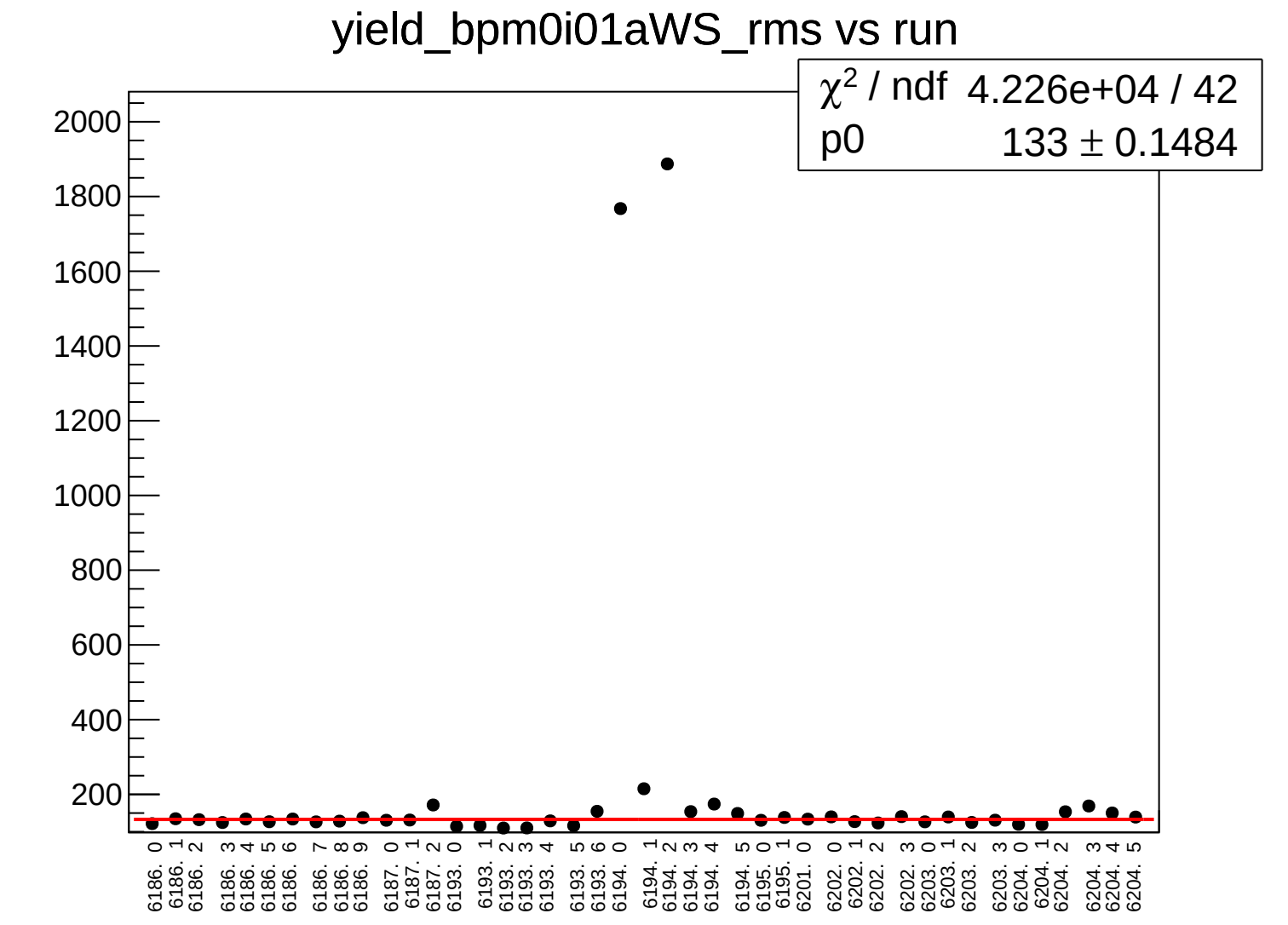

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 3.596e+06 / 42
p0 1.472e+05 ± 0.2307
148
147
146
145
144
143
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −25.02
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800

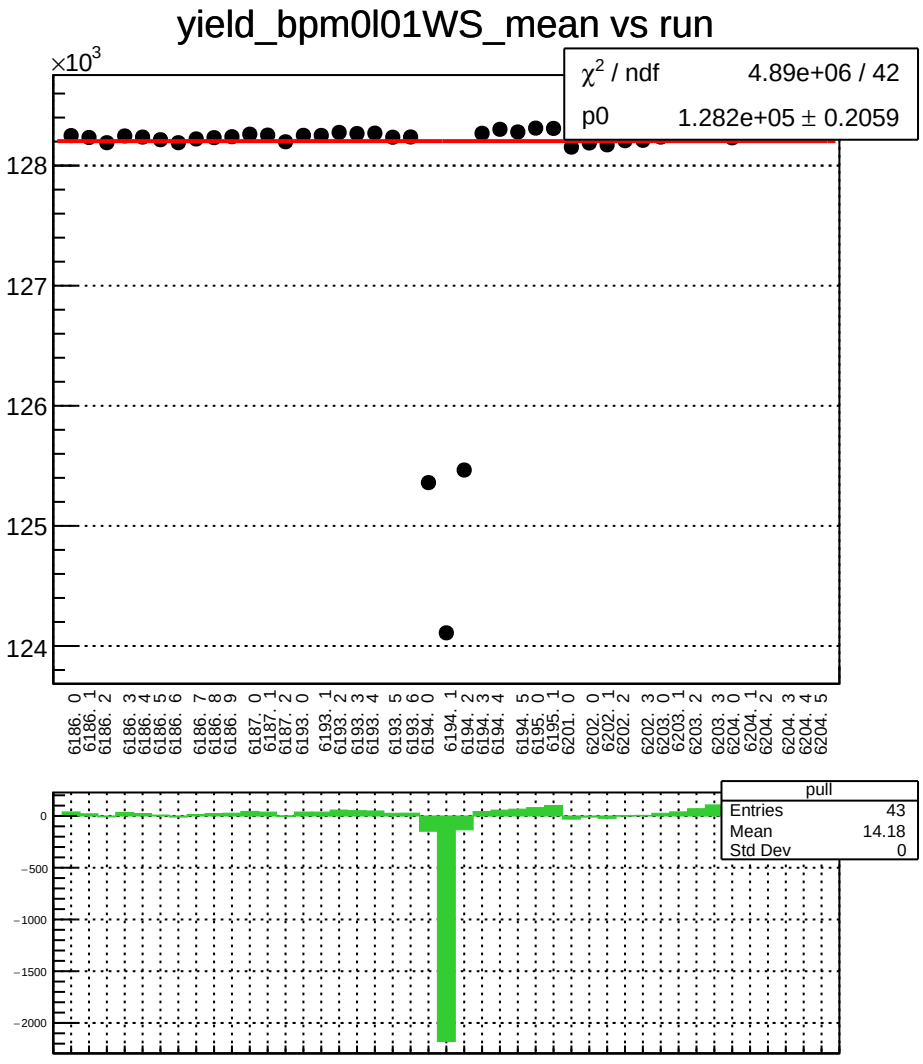

pull1D
Entries 43
Mean 2.977
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

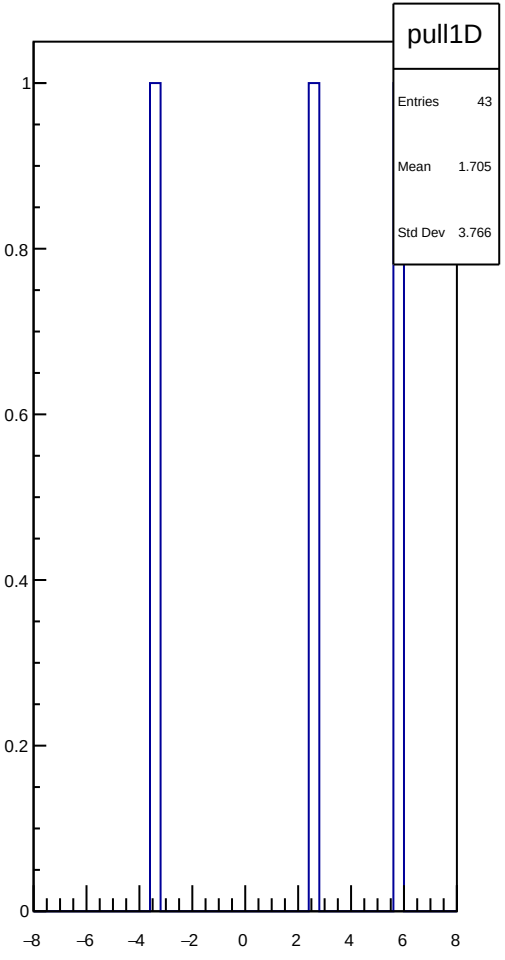

yield_bpm0i01WS_rms vs run
χ² / ndf 4.027e+04 / 42
p0 146.4 ± 0.1631
2000
1800
1600
1400
1200
1000
800
600
400
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

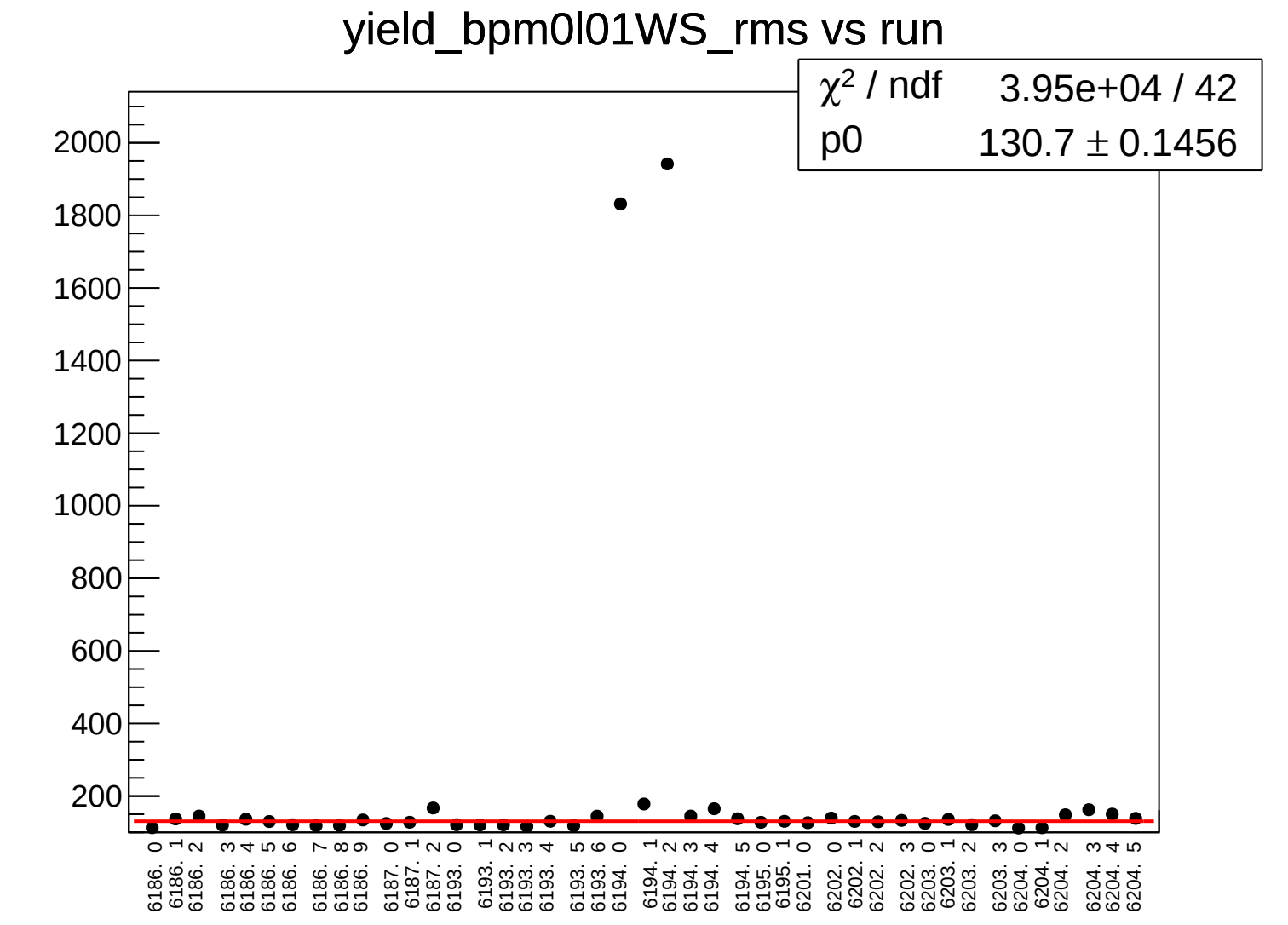

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 3.601e+06 / 42
p0 1.435e+05 ± 0.2099
144
143
142
141
140
139
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 47.41
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800

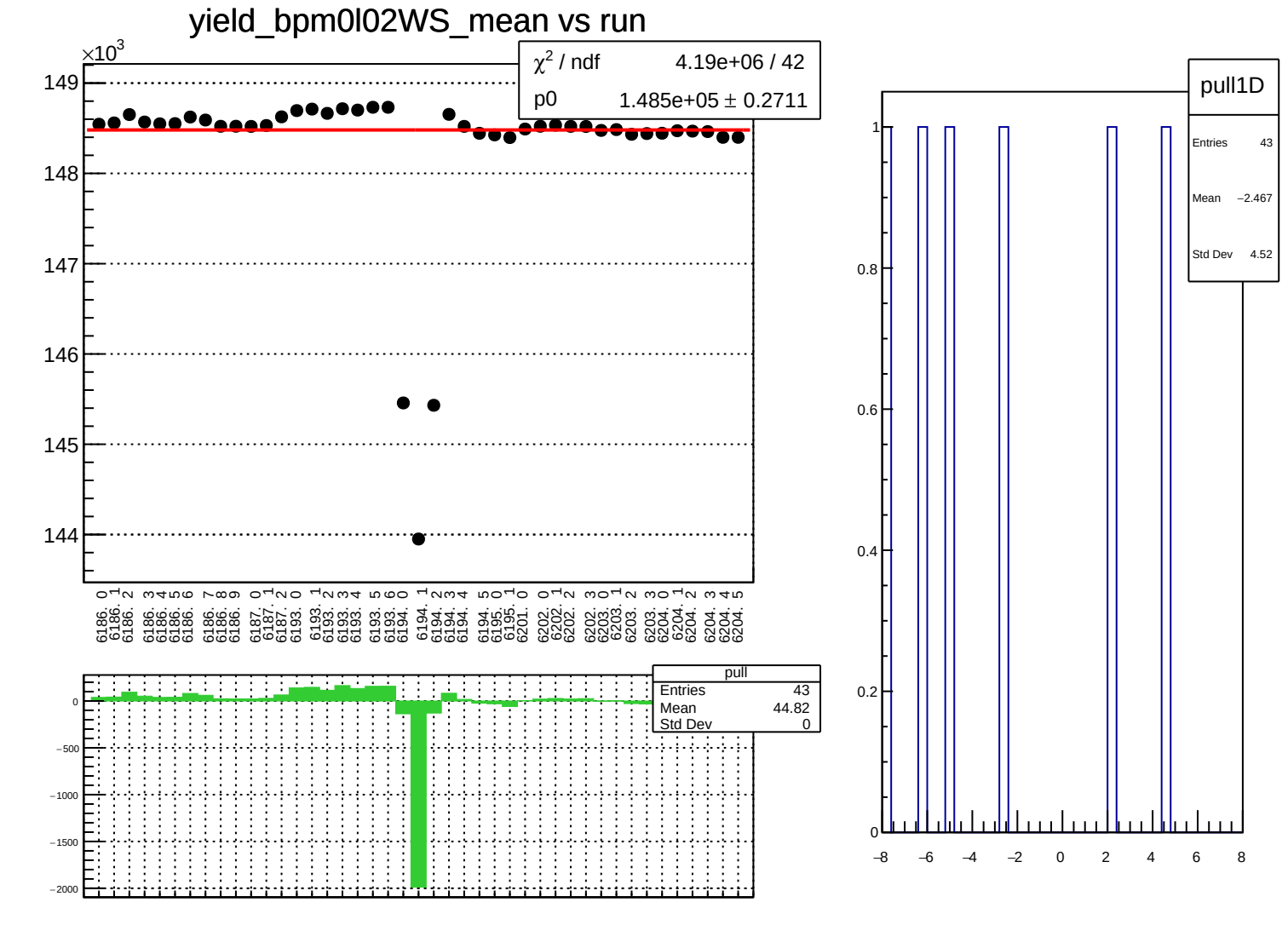

pull1D
Entries 43
Mean 2.287
Std Dev 3.292
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

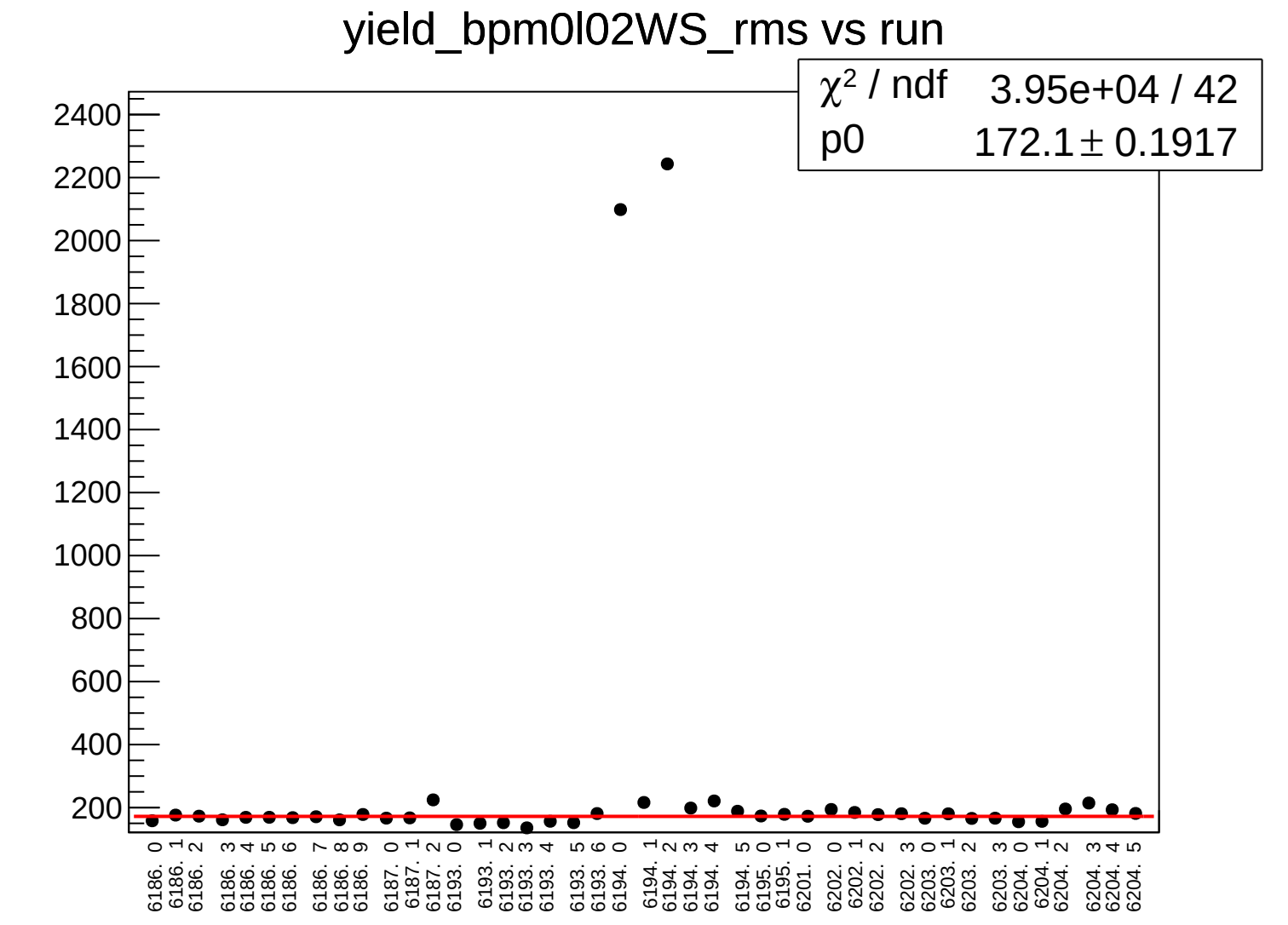

yield_bpm0i01aWS_rms vs run
χ² / ndf 4.226e+04 / 42
p0 133 ± 0.1484
2000
1800
1600
1400
1200
1000
800
600
400
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

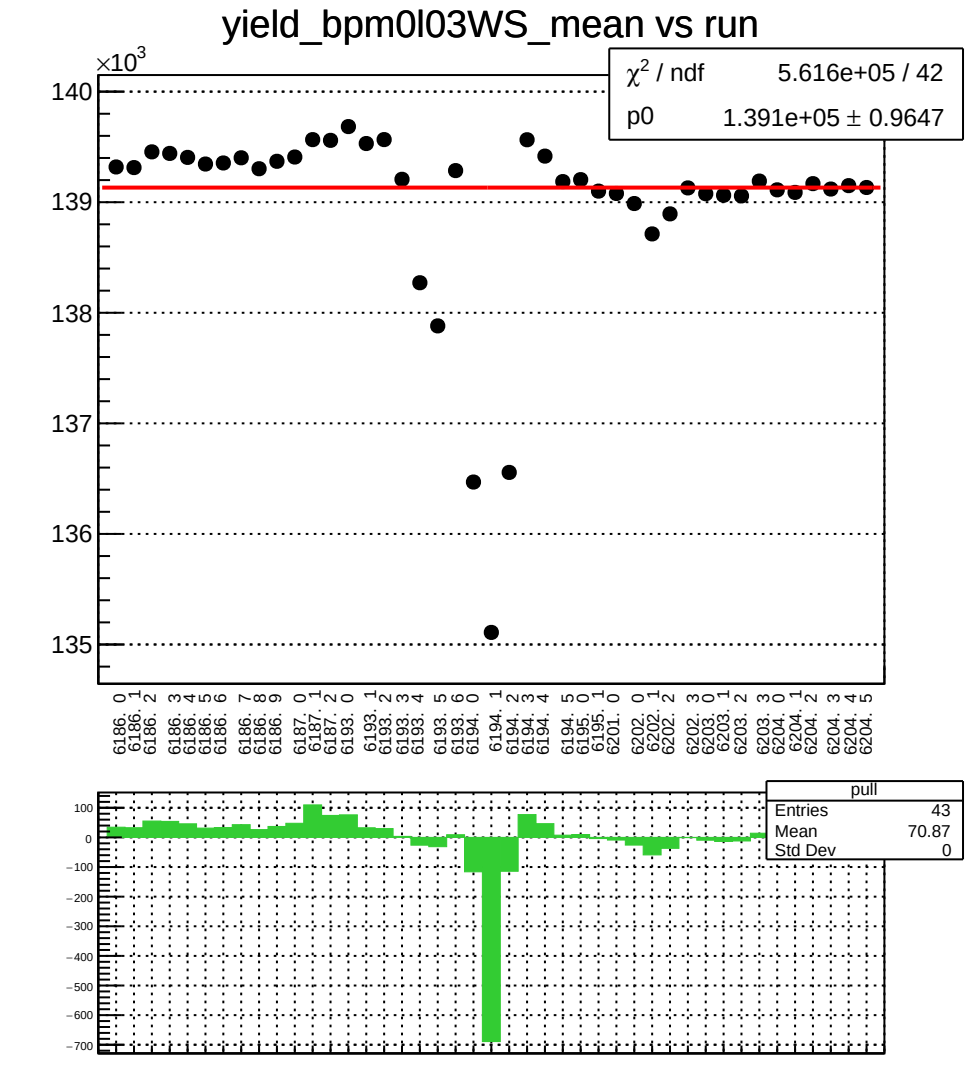

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 4.89e+06 / 42
p0 1.282e+05 ± 0.2059
128
127
126
125
124
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 14.18
Std Dev 0
0
−500
−1000
−1500
−2000

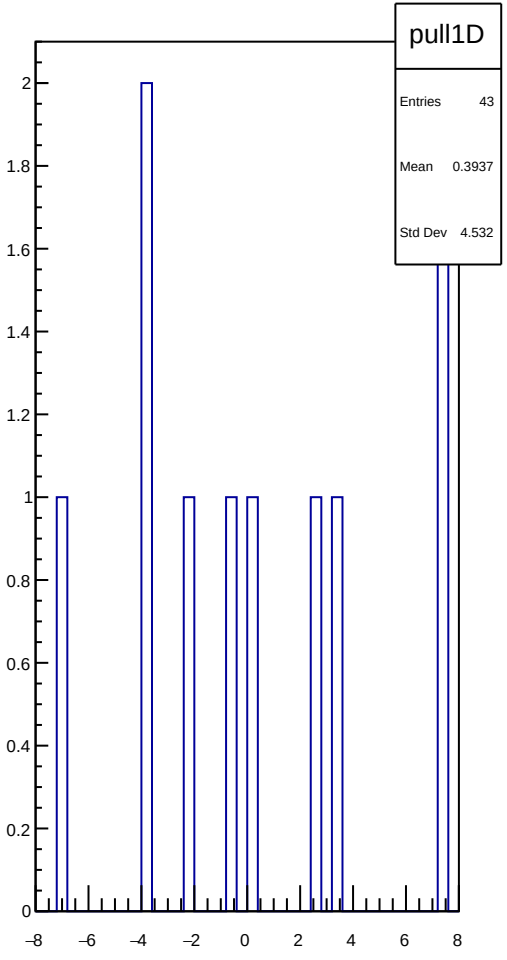

pull1D
Entries 43
Mean 1.705
Std Dev 3.766
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

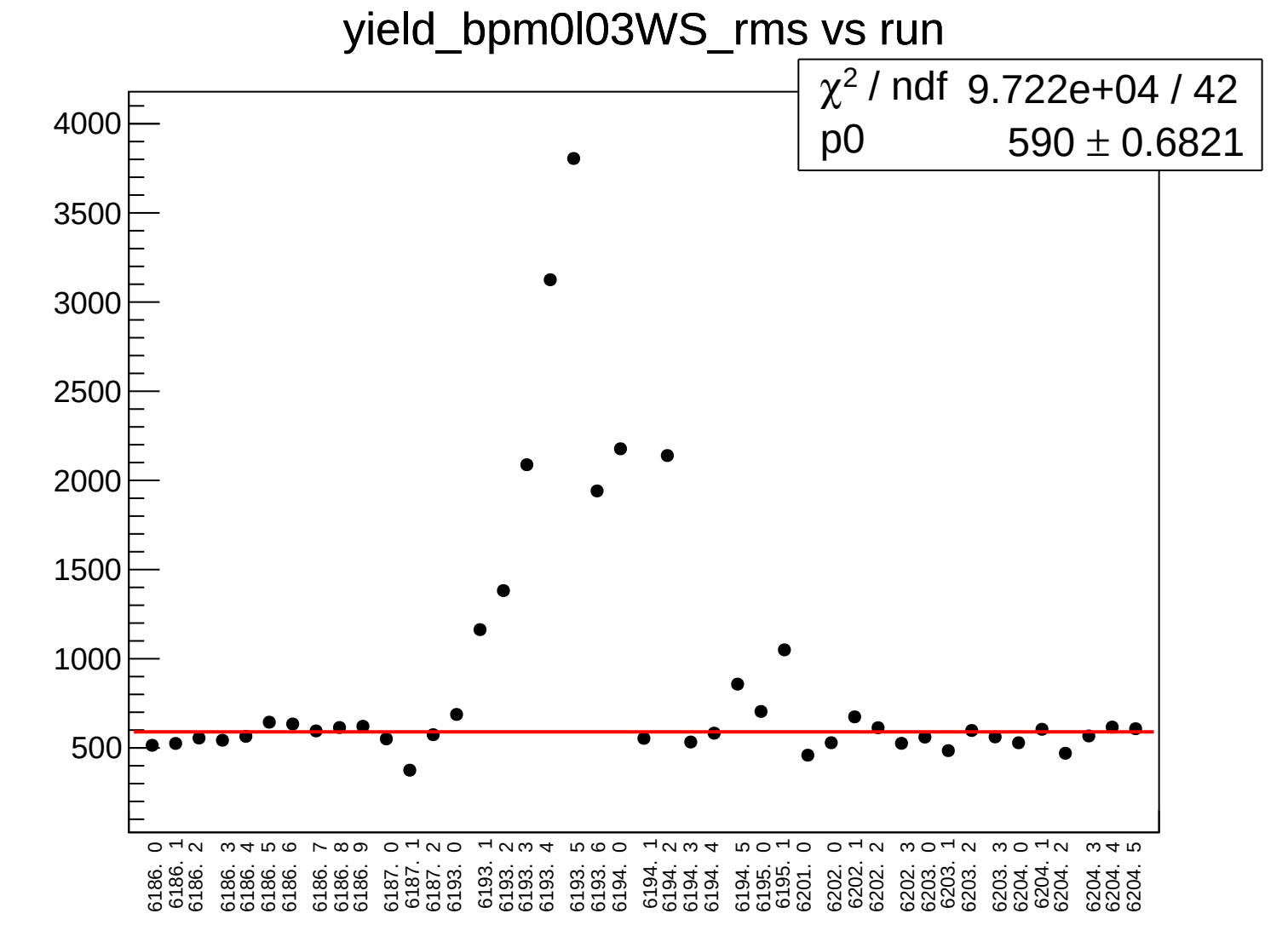

yield_bpm0l01WS_rms vs run
χ² / ndf 3.95e+04 / 42
p0 130.7 ± 0.1456
2000
1800
1600
1400
1200
1000
800
600
400
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

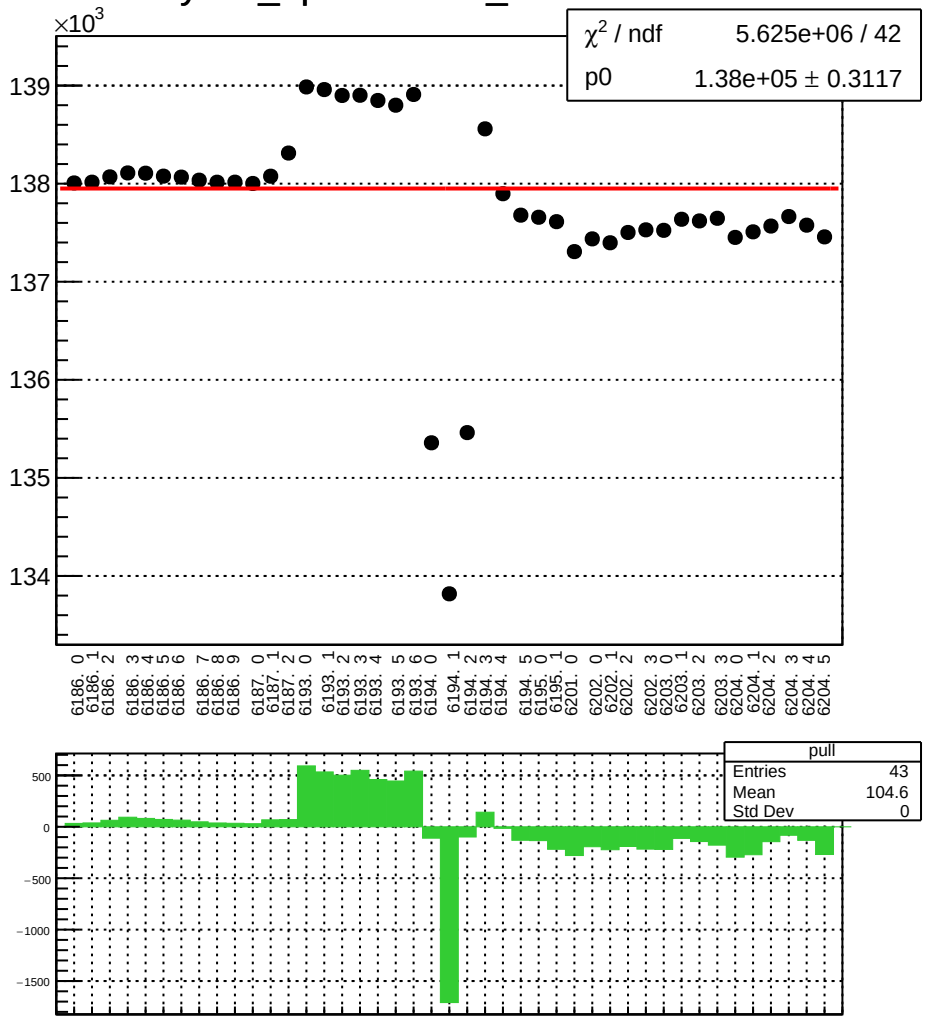

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 4.19e+06 / 42
p0 1.485e+05 ± 0.2711
149
148
147
146
145
144
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 44.82
Std Dev 0
0
−500
−1000
−1500
−2000
pull1D
Entries 43
Mean −2.467
Std Dev 4.52
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

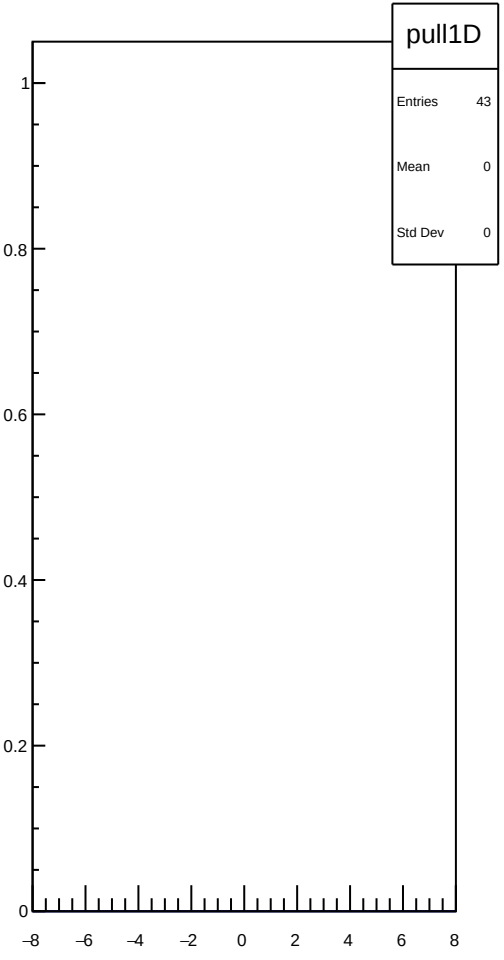

yield_bpm0l02WS_rms vs run
χ² / ndf 3.95e+04 / 42
p0 172.1 ± 0.1917
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

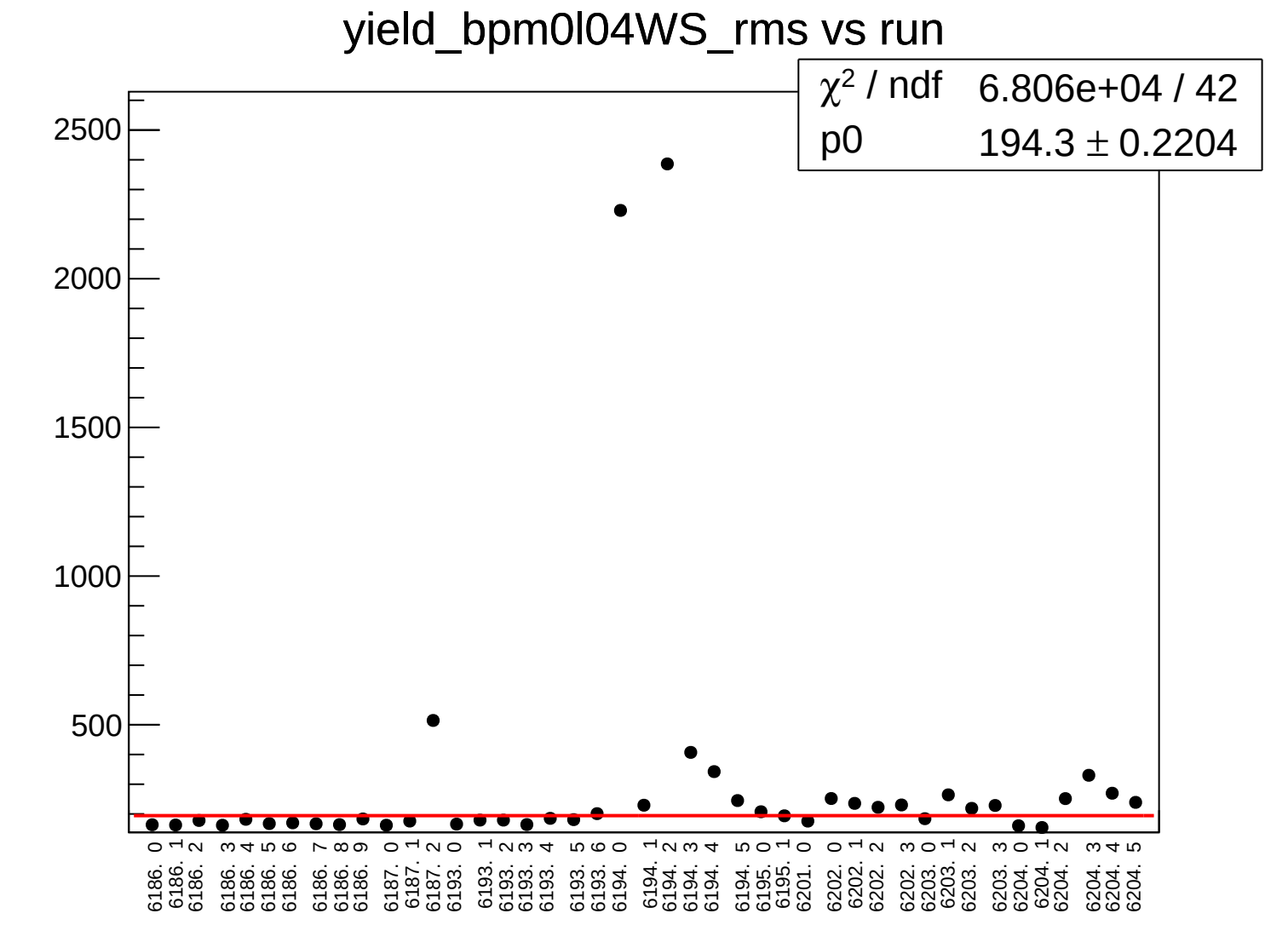

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 5.616e+05 / 42
p0 1.391e+05 ± 0.9647
140
139
138
137
136
135
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 70.87
Std Dev 0
100
0
−100
−200
−300
−400
−500
−600
−700

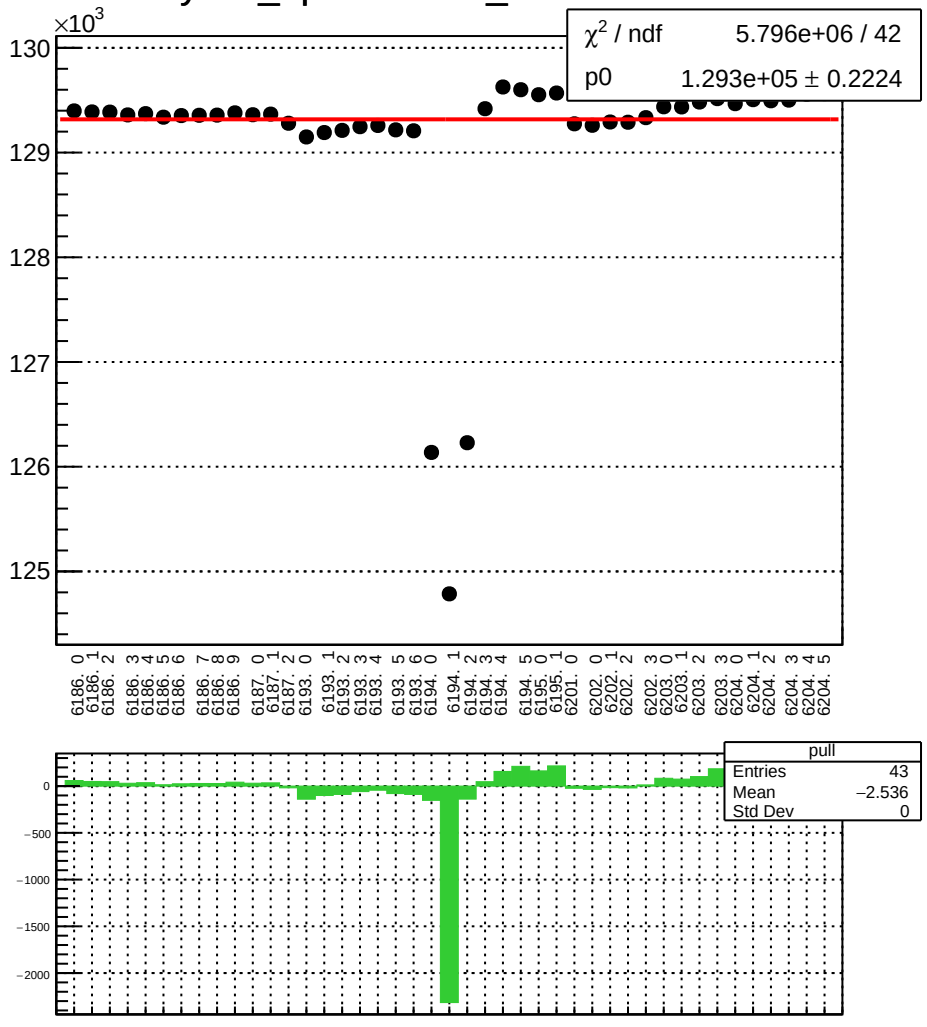

pull1D
Entries 43
Mean 0.3937
Std Dev 4.532
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

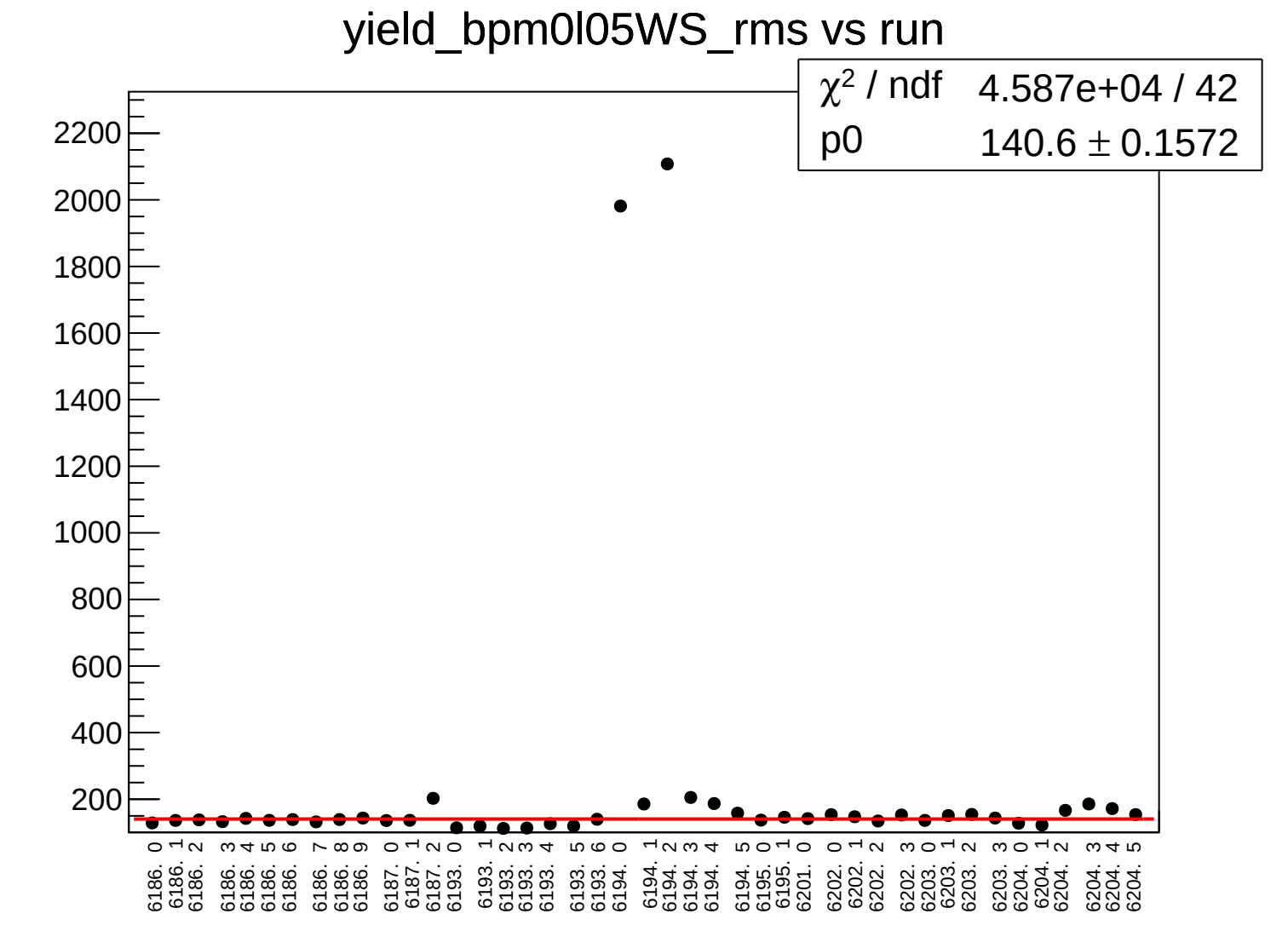

yield_bpm0l03WS_rms vs run
χ² / ndf 9.722e+04 / 42
p0 590 ± 0.6821
4000
3500
3000
2500
2000
1500
1000
500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

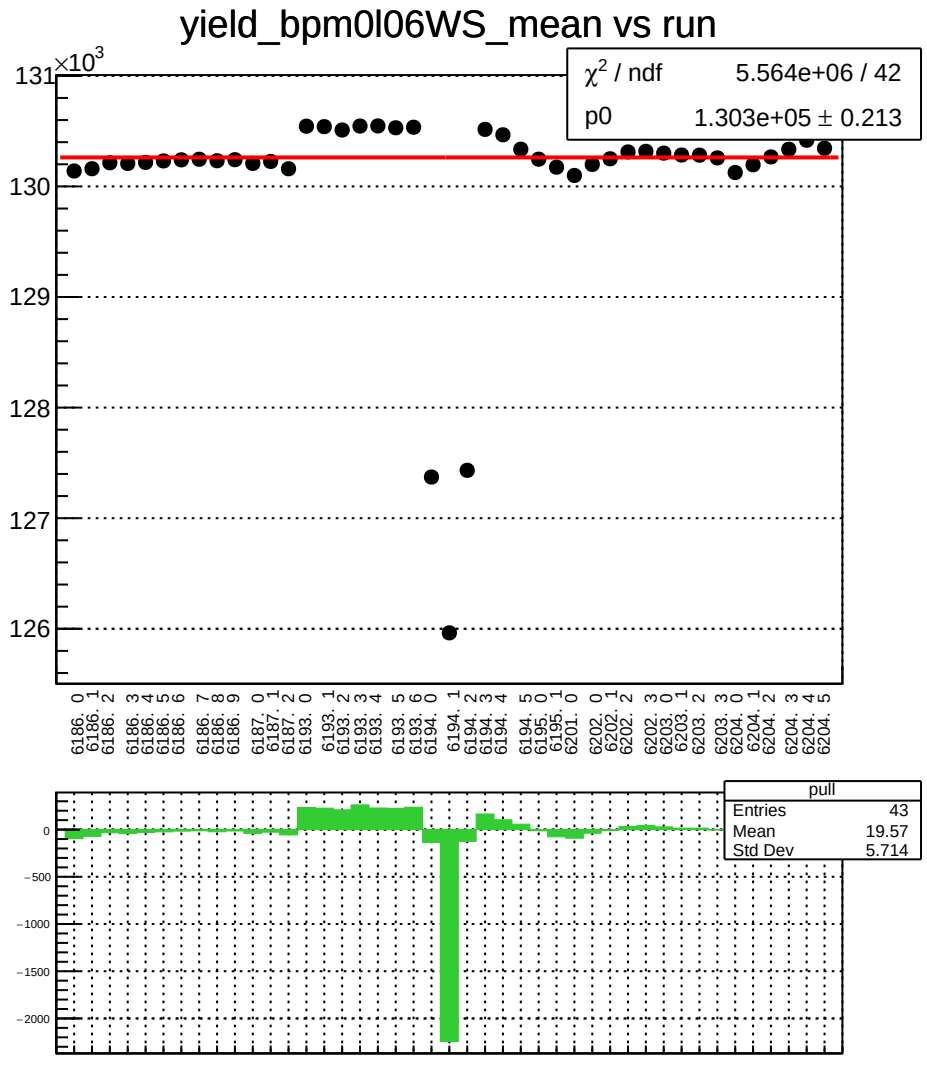

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 5.625e+06 / 42
p0 1.38e+05 ± 0.3117
139
138
137
136
135
134
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 104.6
Std Dev 0
500
0
−500
−1000
−1500

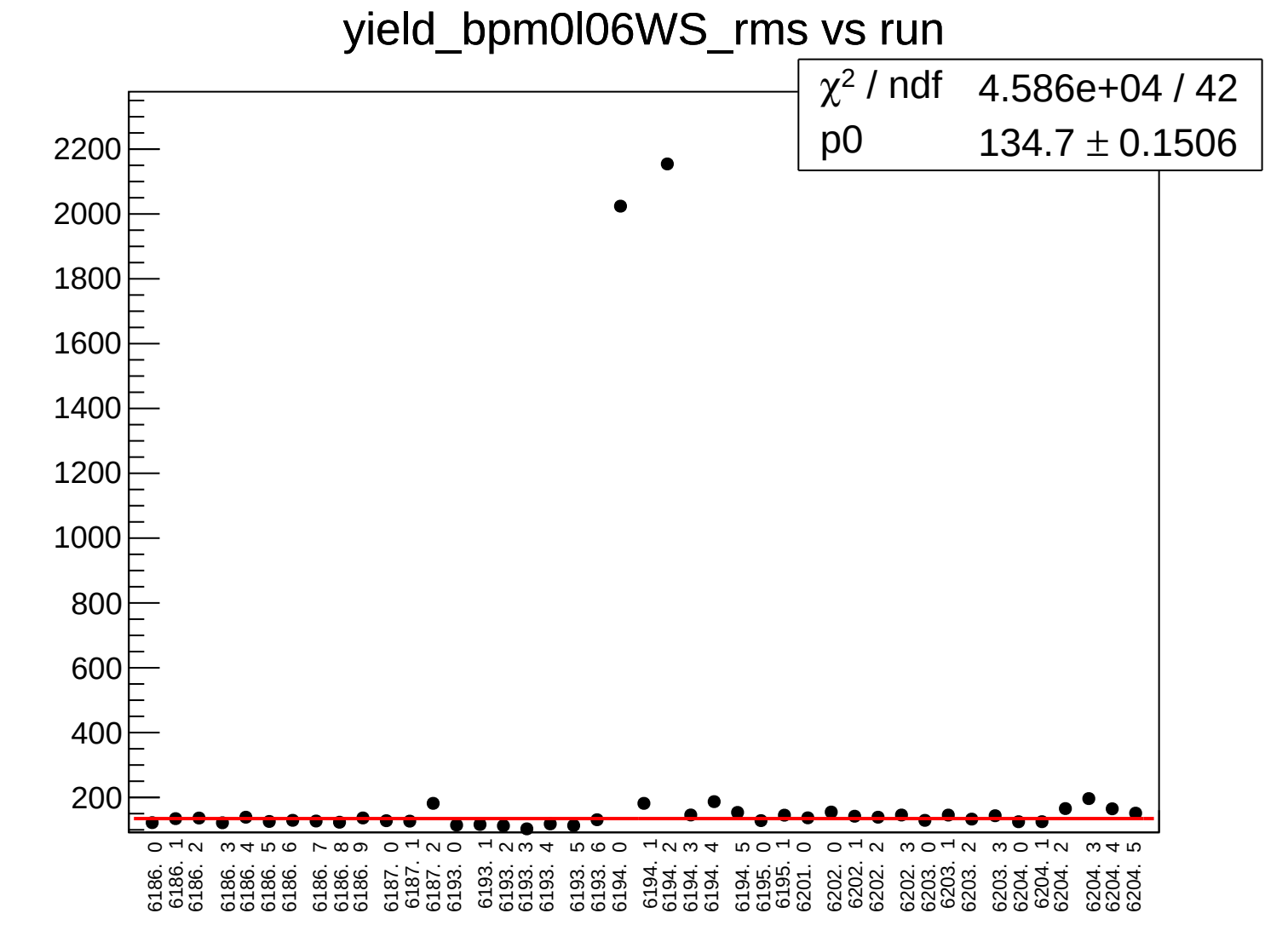

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

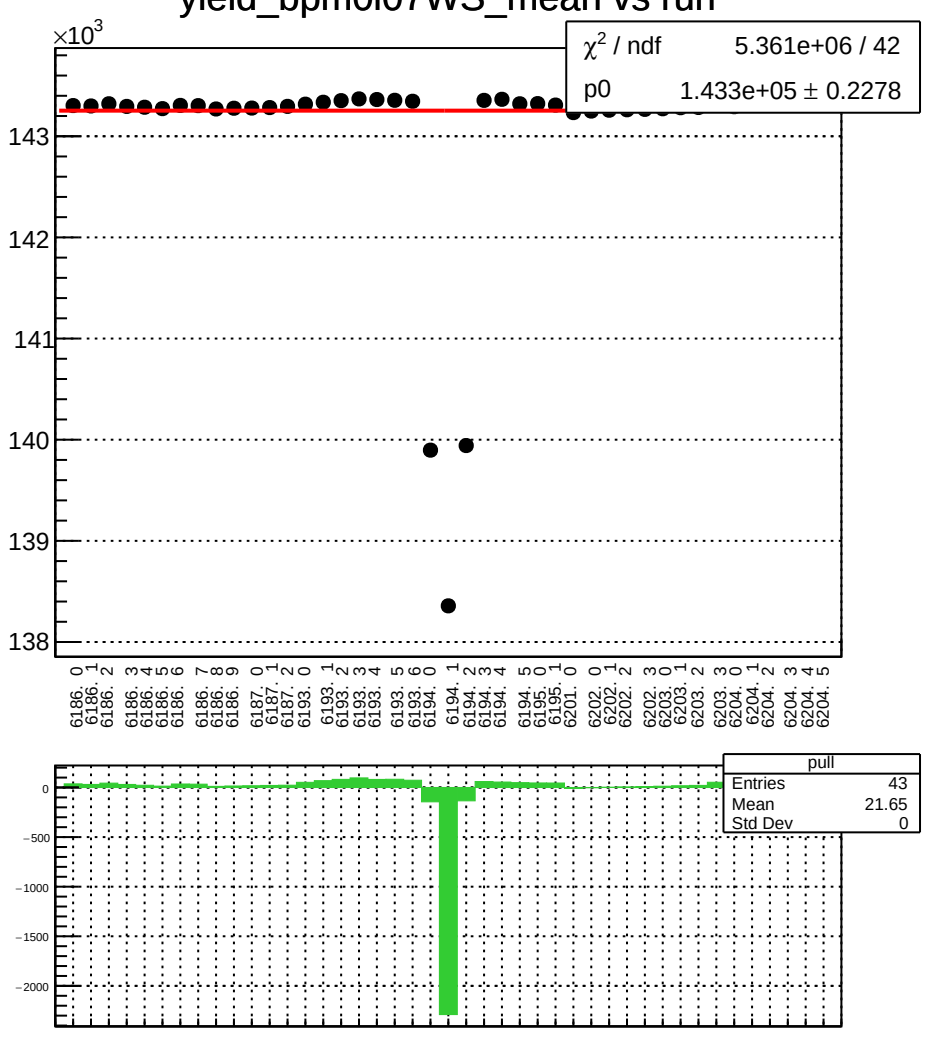

yield_bpm0l04WS_rms vs run
χ² / ndf 6.806e+04 / 42
p0 194.3 ± 0.2204
2500
2000
1500
1000
500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

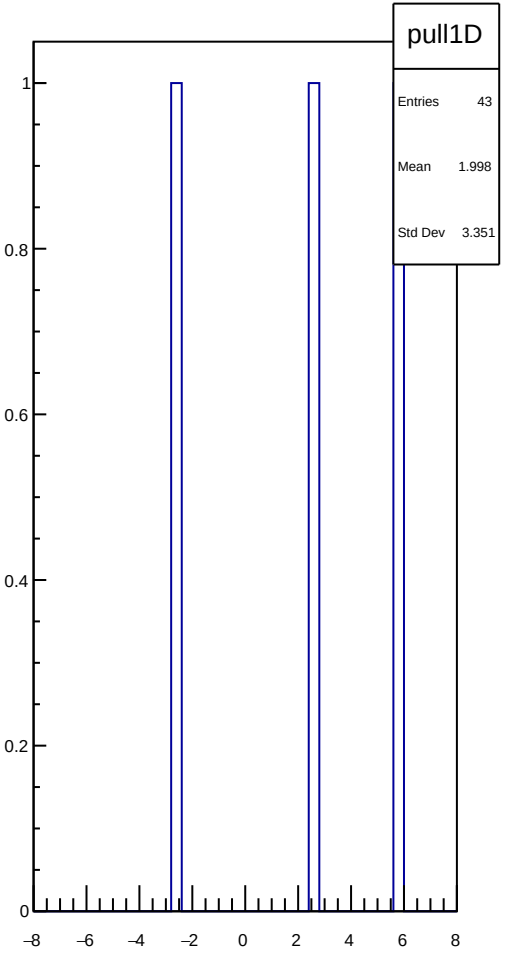

yield_bpm0l05WS_mean vs run
×10^3
130
129
128
127
126
125
χ² / ndf 5.796e+06 / 42
p0 1.293e+05 ± 0.2224
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −2.536
Std Dev 0
0
−500
−1000
−1500
−2000
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

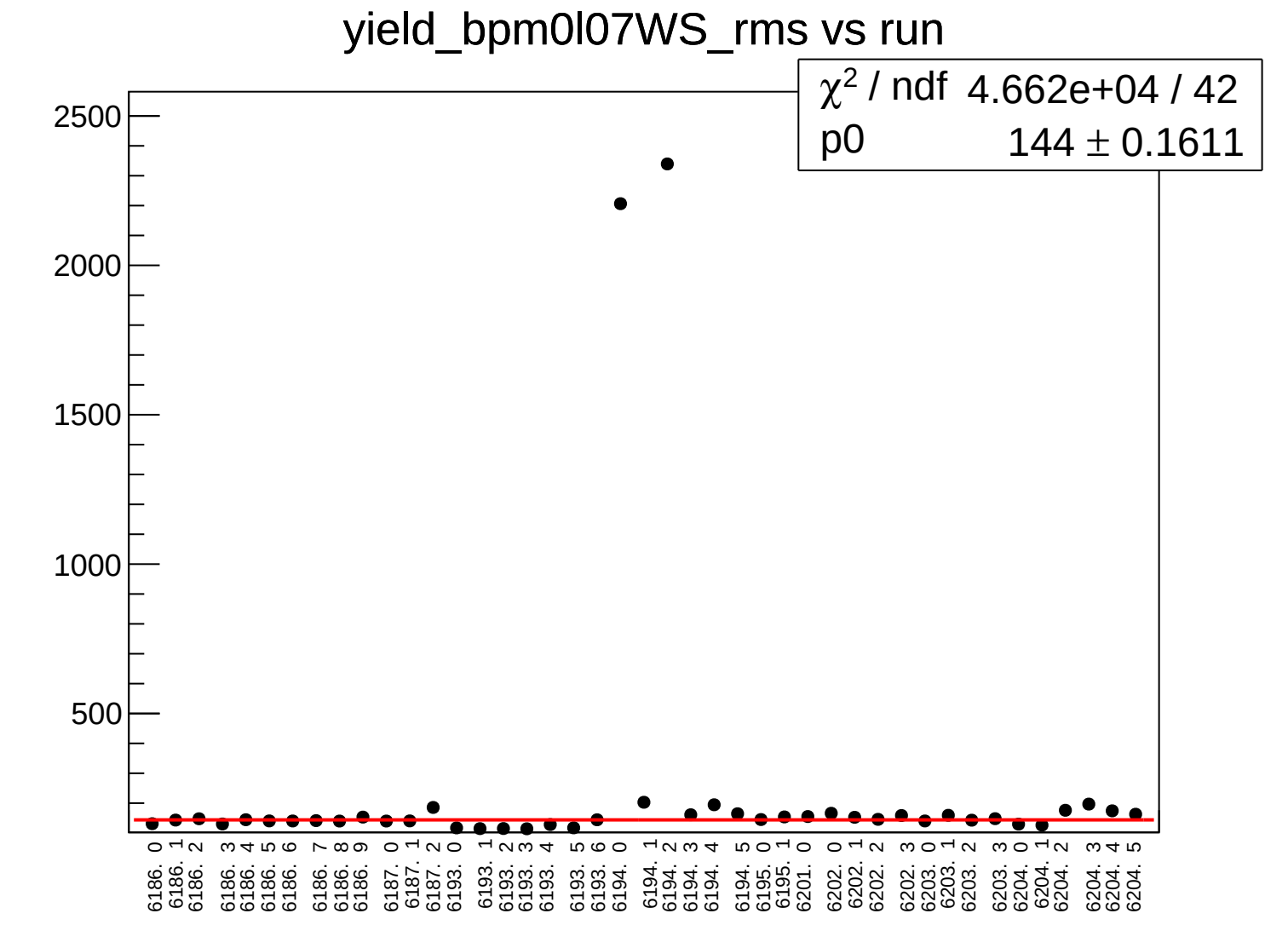

yield_bpm0l05WS_rms vs run
χ² / ndf 4.587e+04 / 42
p0 140.6 ± 0.1572
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

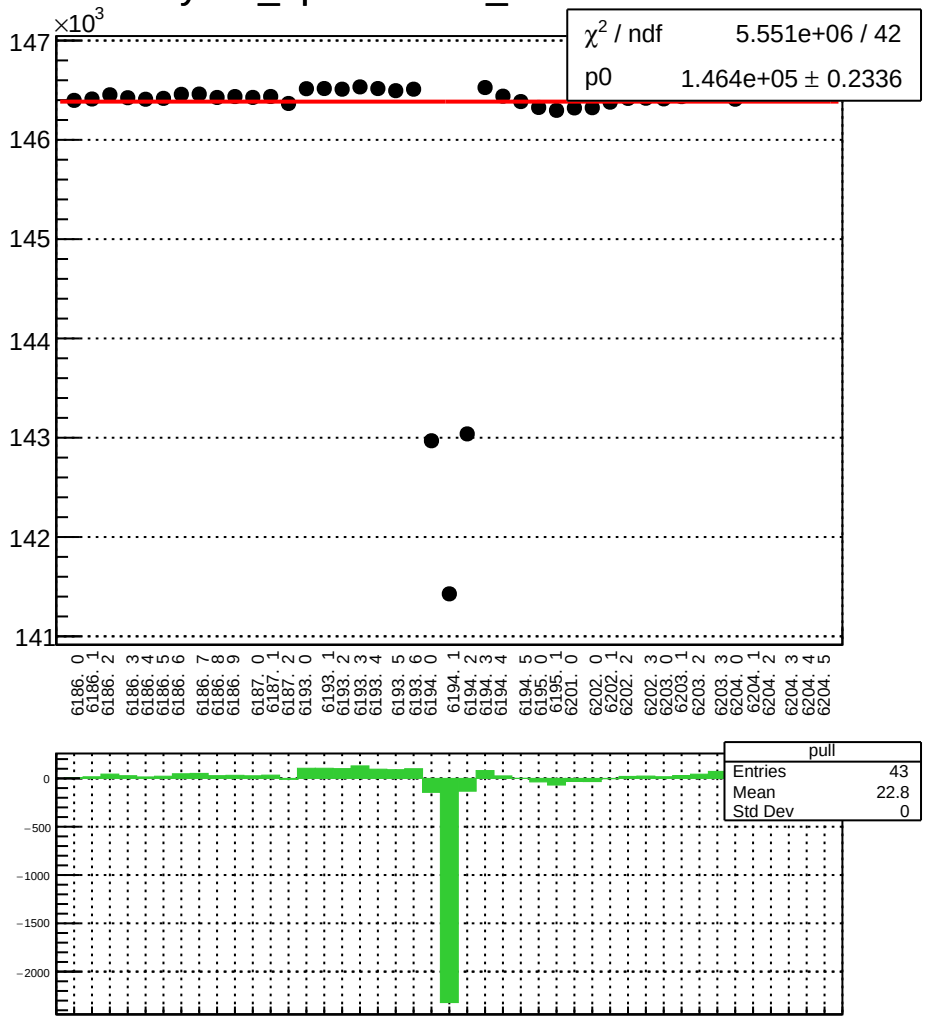

yield_bpm0l06WS_mean vs run
×10^3
131
130
129
128
127
126
χ² / ndf 5.564e+06 / 42
p0 1.303e+05 ± 0.213
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 19.57
Std Dev 5.714
0
−500
−1000
−1500
−2000
pull1D
Entries 43
Mean −0.5575
Std Dev 3.285
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

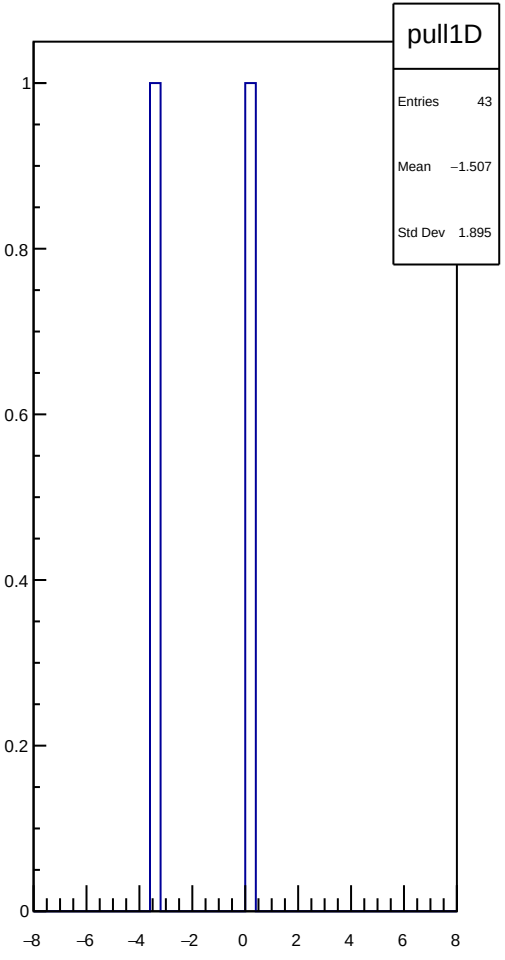

yield_bpm0l06WS_rms vs run
χ² / ndf 4.586e+04 / 42
p0 134.7 ± 0.1506
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

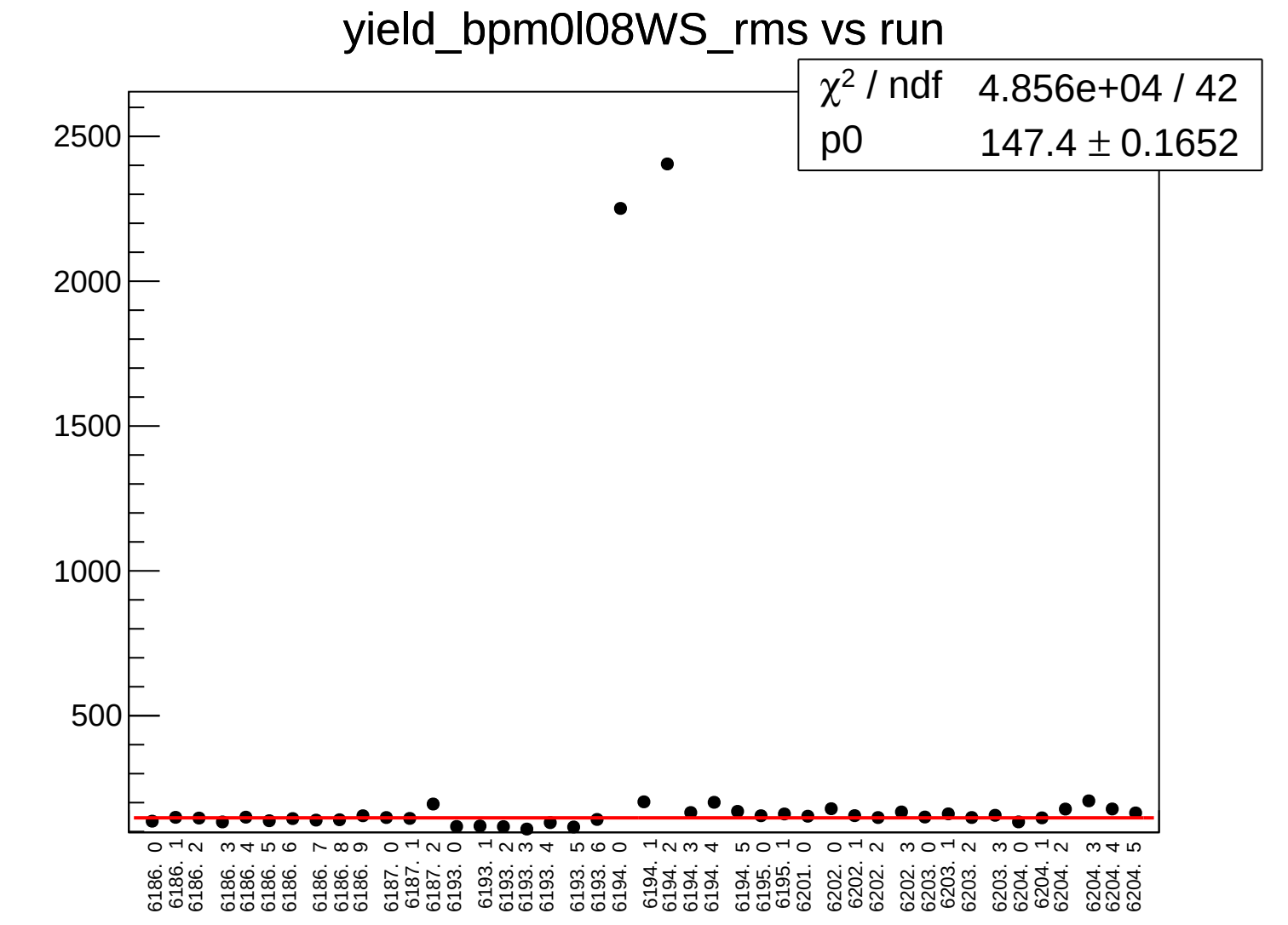

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 5.361e+06 / 42
p0 1.433e+05 ± 0.2278
143
142
141
140
139
138
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 21.65
Std Dev 0
0
−500
−1000
−1500
−2000

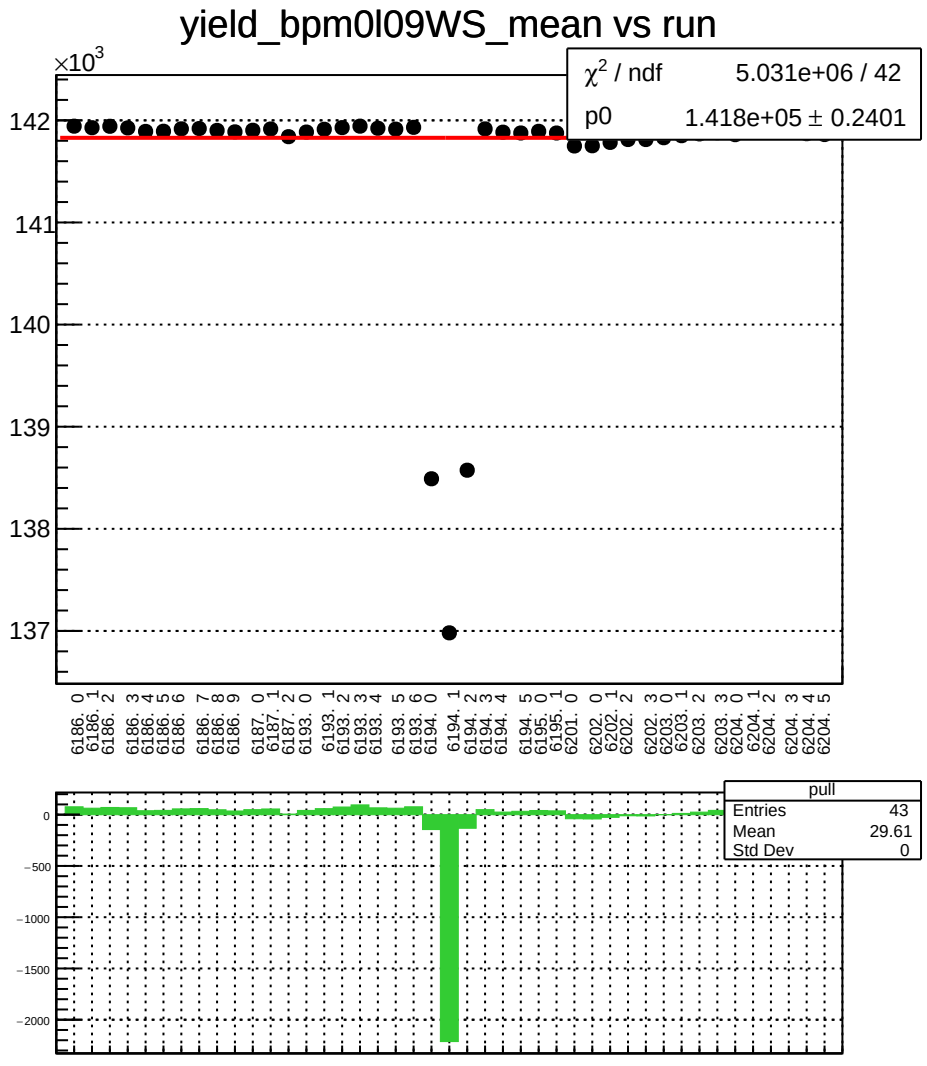

pull1D
Entries 43
Mean 1.998
Std Dev 3.351
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

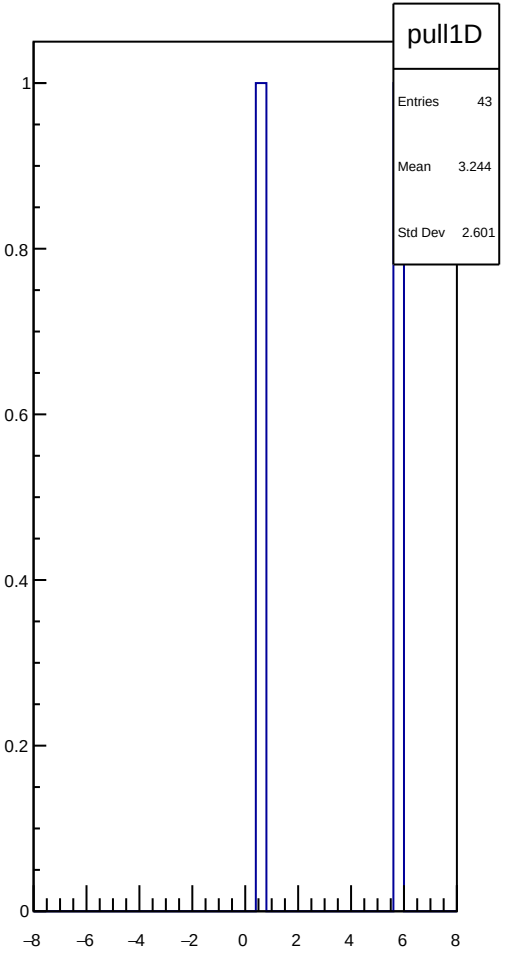

yield_bpm0l07WS_rms vs run
χ² / ndf 4.662e+04 / 42
p0 144 ± 0.1611
2500
2000
1500
1000
500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

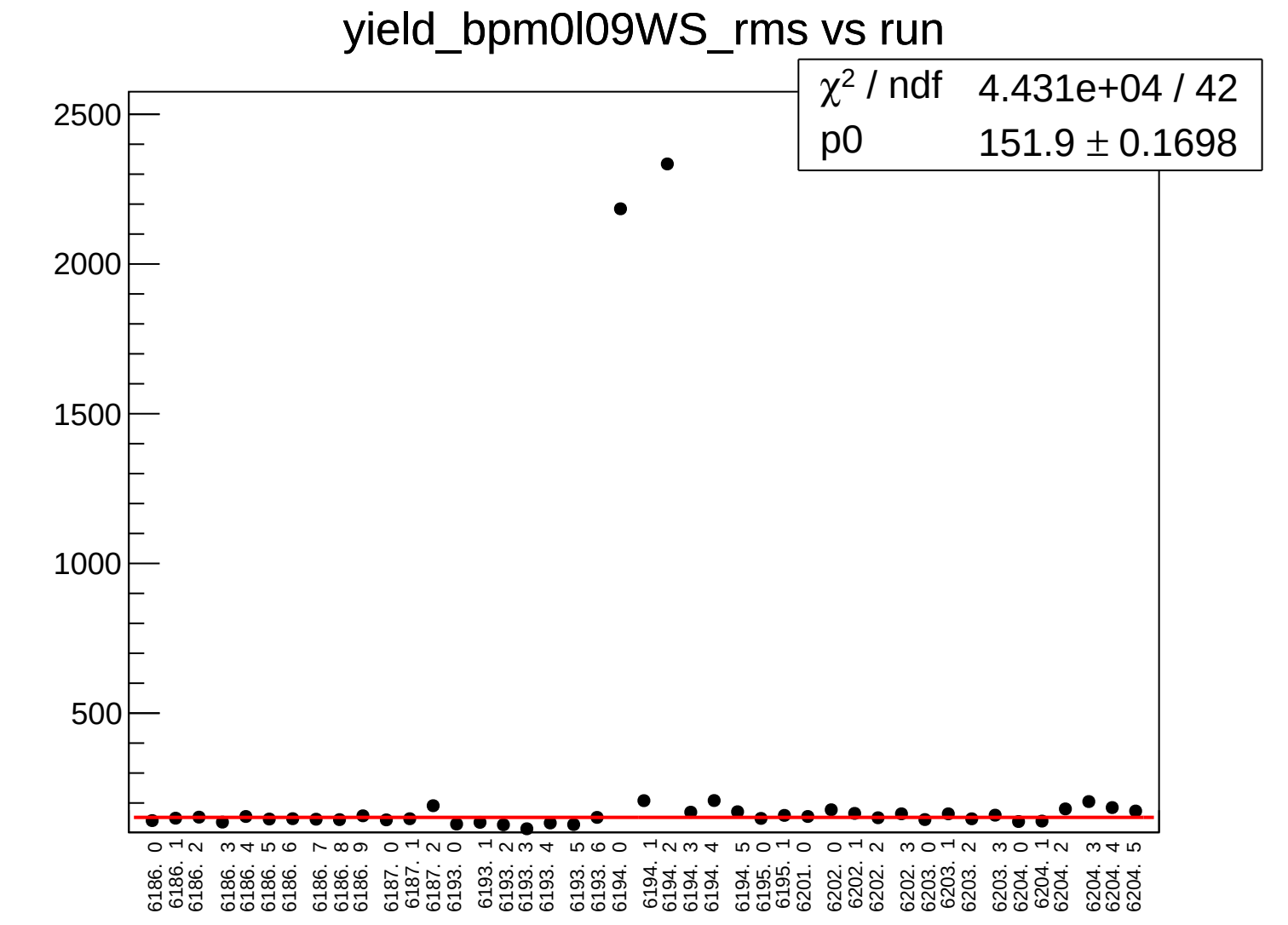

yield_bpm0l08WS_mean vs run
×10^3
147
146
145
144
143
142
141
χ² / ndf 5.551e+06 / 42
p0 1.464e+05 ± 0.2336
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 22.8
Std Dev 0
0
−500
−1000
−1500
−2000

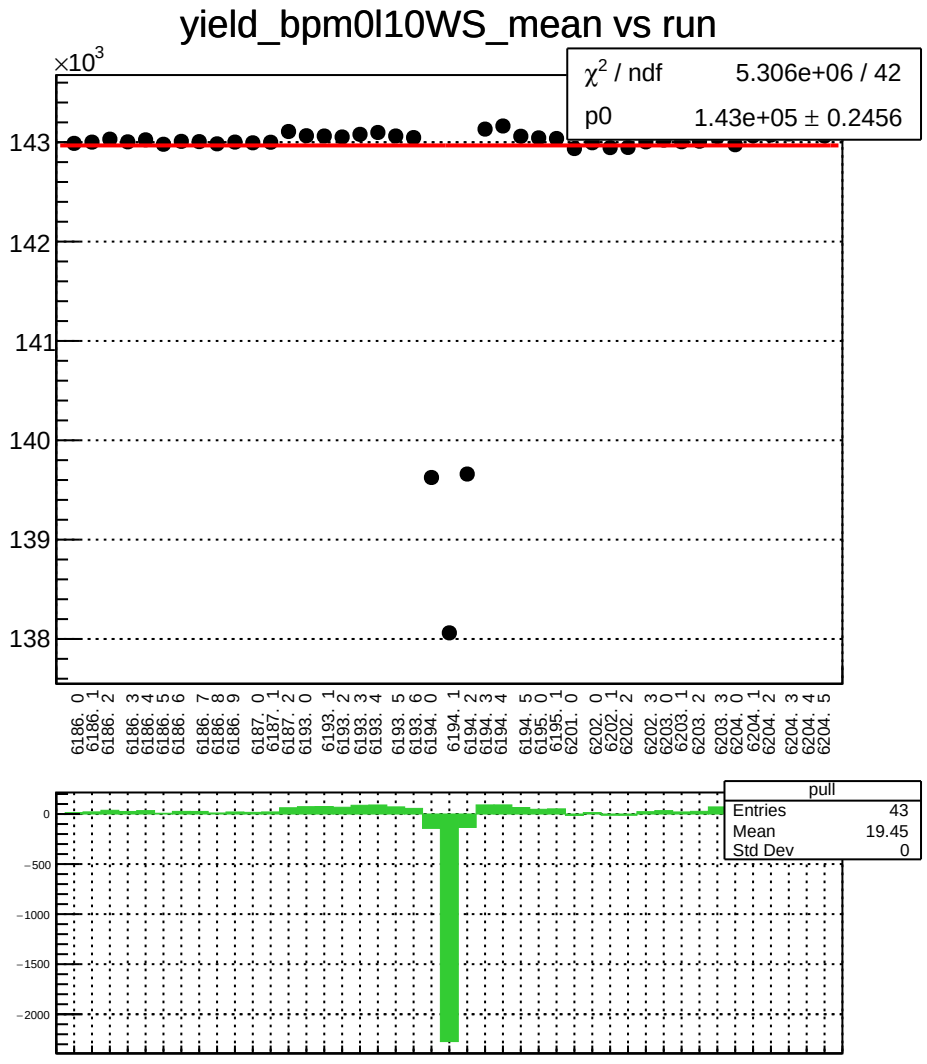

pull1D
Entries 43
Mean −1.507
Std Dev 1.895
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

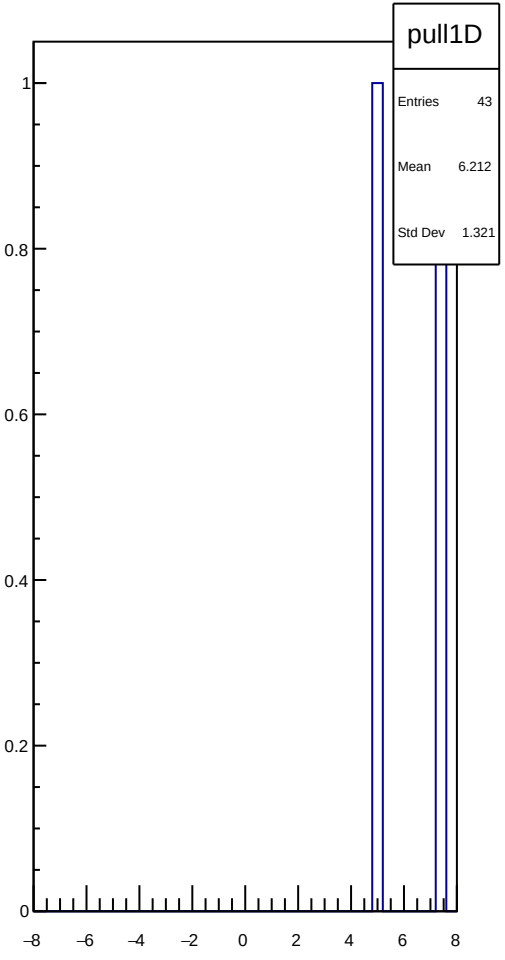

yield_bpm0l08WS_rms vs run
χ² / ndf 4.856e+04 / 42
p0 147.4 ± 0.1652
2500
2000
1500
1000
500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

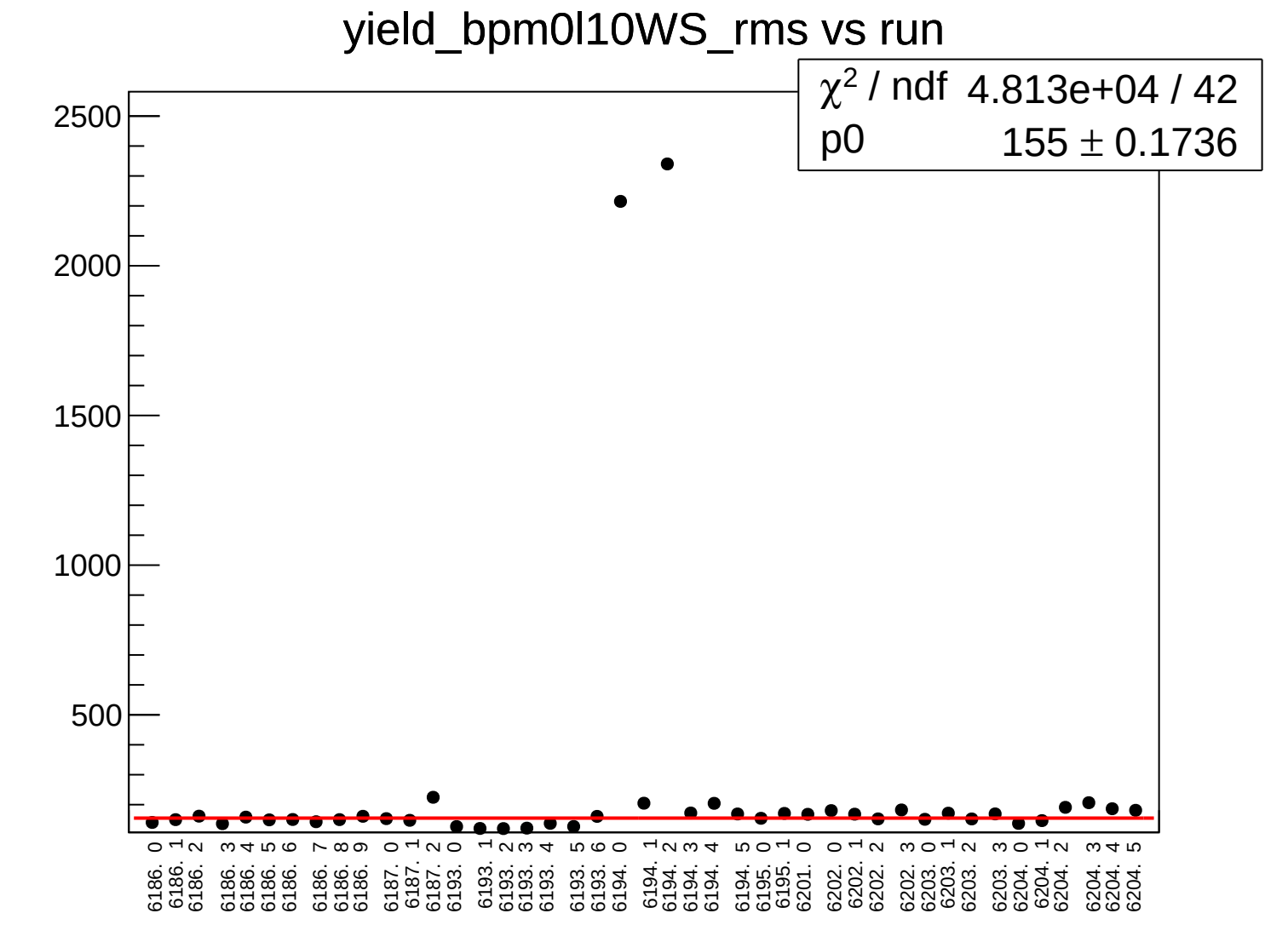

yield_bpm0l09WS_mean vs run
×10^3
χ^2 / ndf 5.031e+06 / 42
p0 1.418e+05 ± 0.2401
142
141
140
139
138
137
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 29.61
Std Dev 0
0
−500
−1000
−1500
−2000

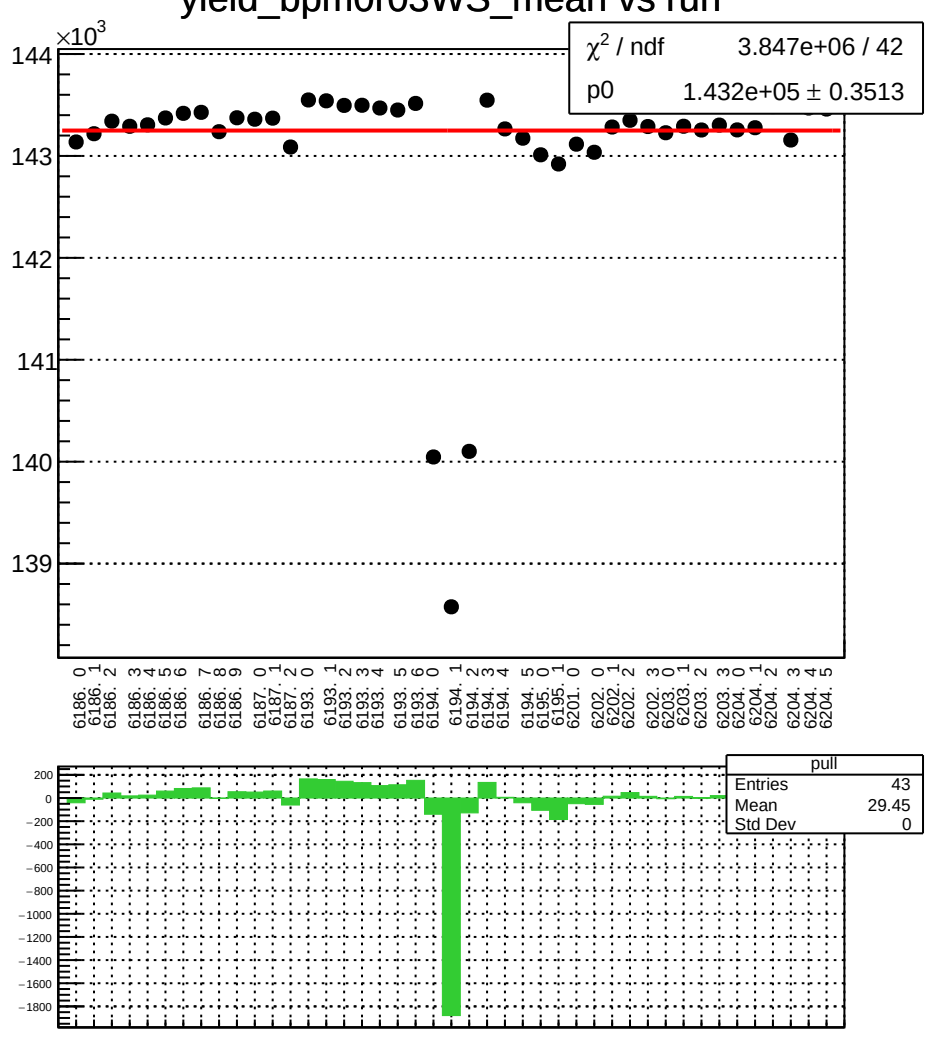

pull1D
Entries 43
Mean 3.244
Std Dev 2.601
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

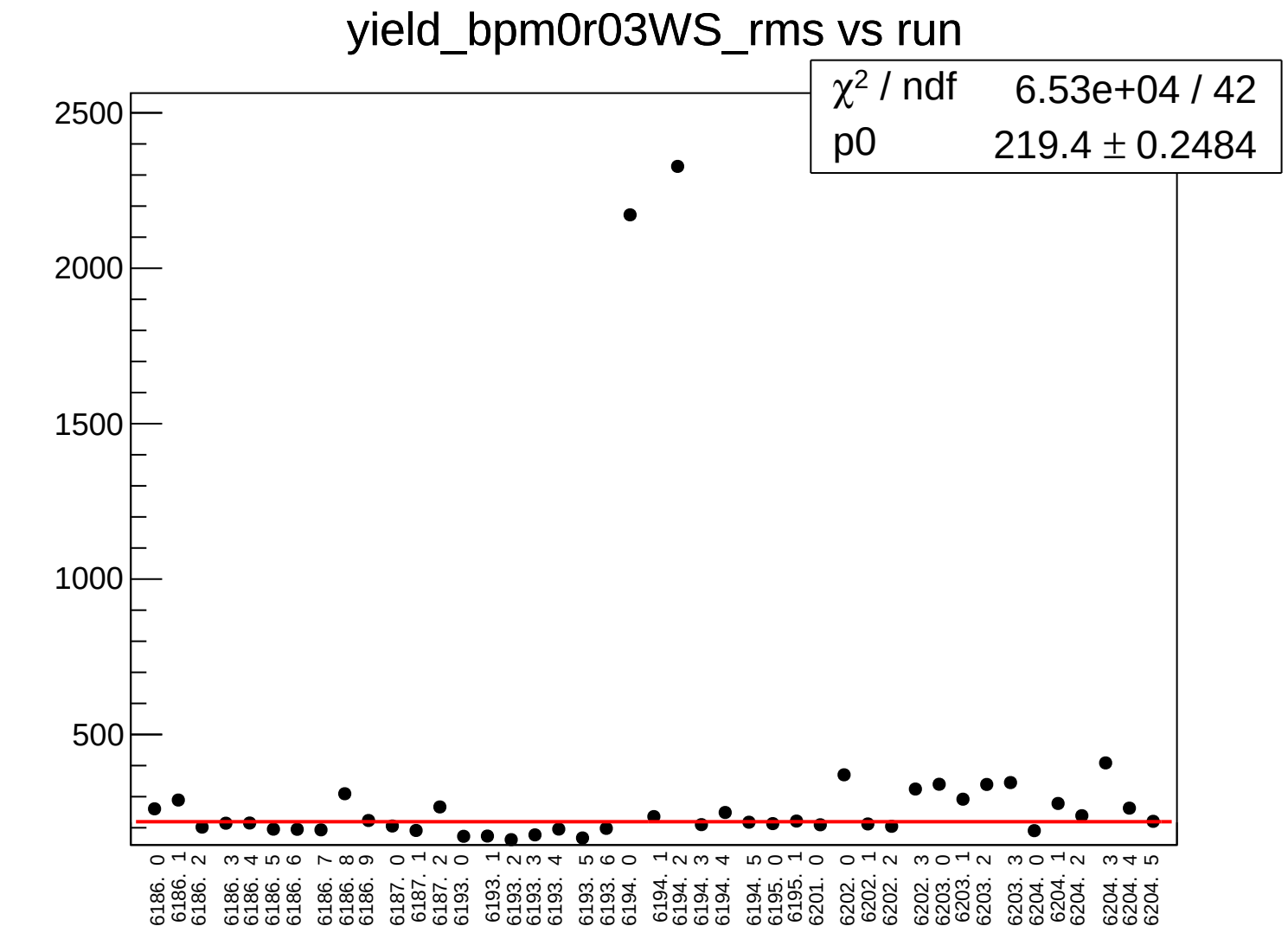

yield_bpm0l09WS_rms vs run
χ² / ndf 4.431e+04 / 42
p0 151.9 ± 0.1698
2500
2000
1500
1000
500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

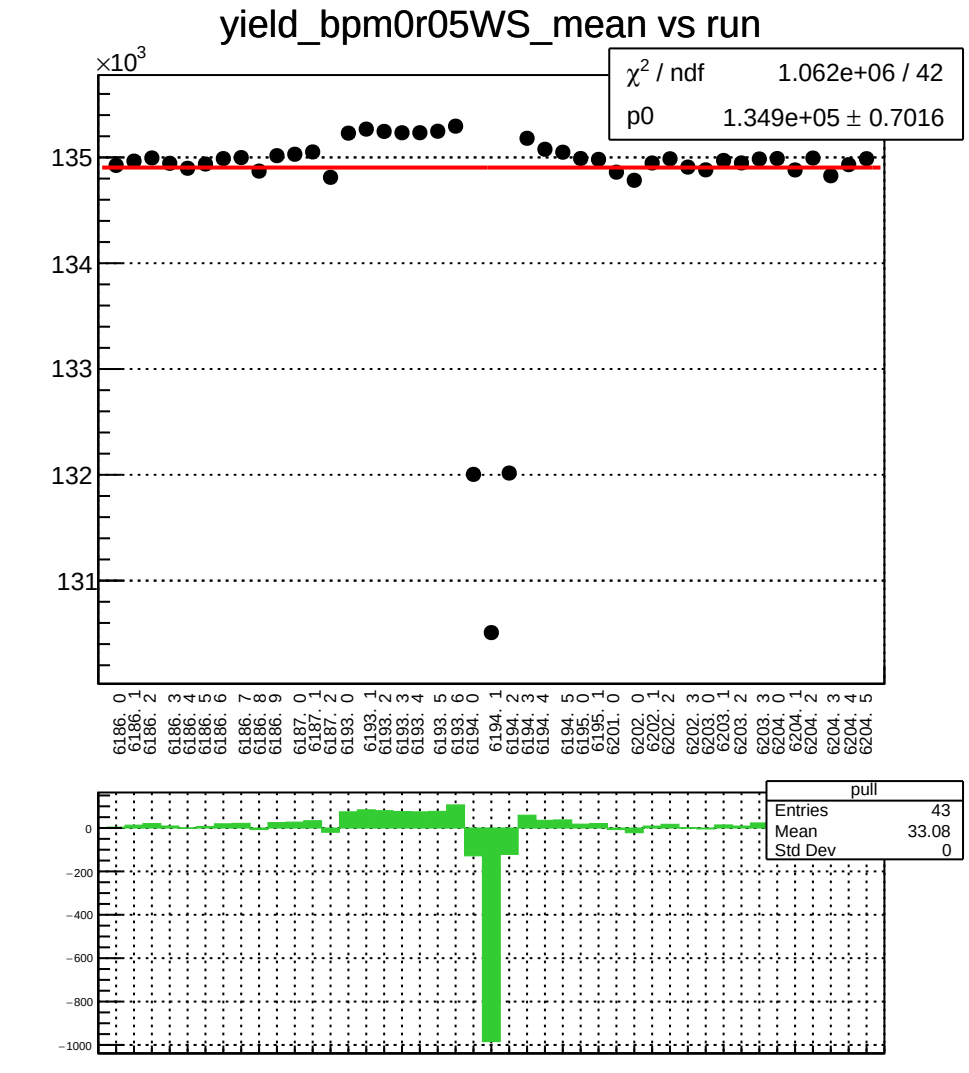

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 5.306e+06 / 42
p0 1.43e+05 ± 0.2456
143
142
141
140
139
138
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 19.45
Std Dev 0
0
−500
−1000
−1500
−2000

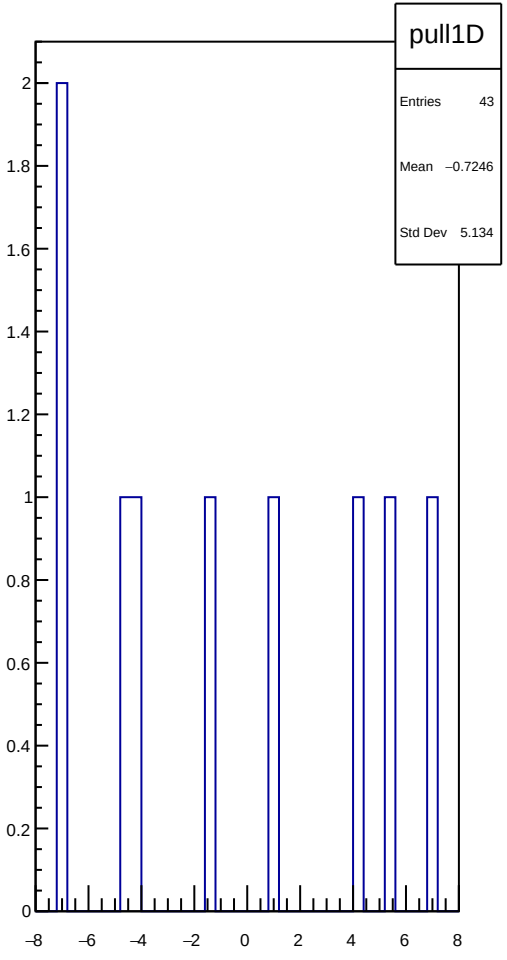

pull1D
Entries 43
Mean 6.212
Std Dev 1.321
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

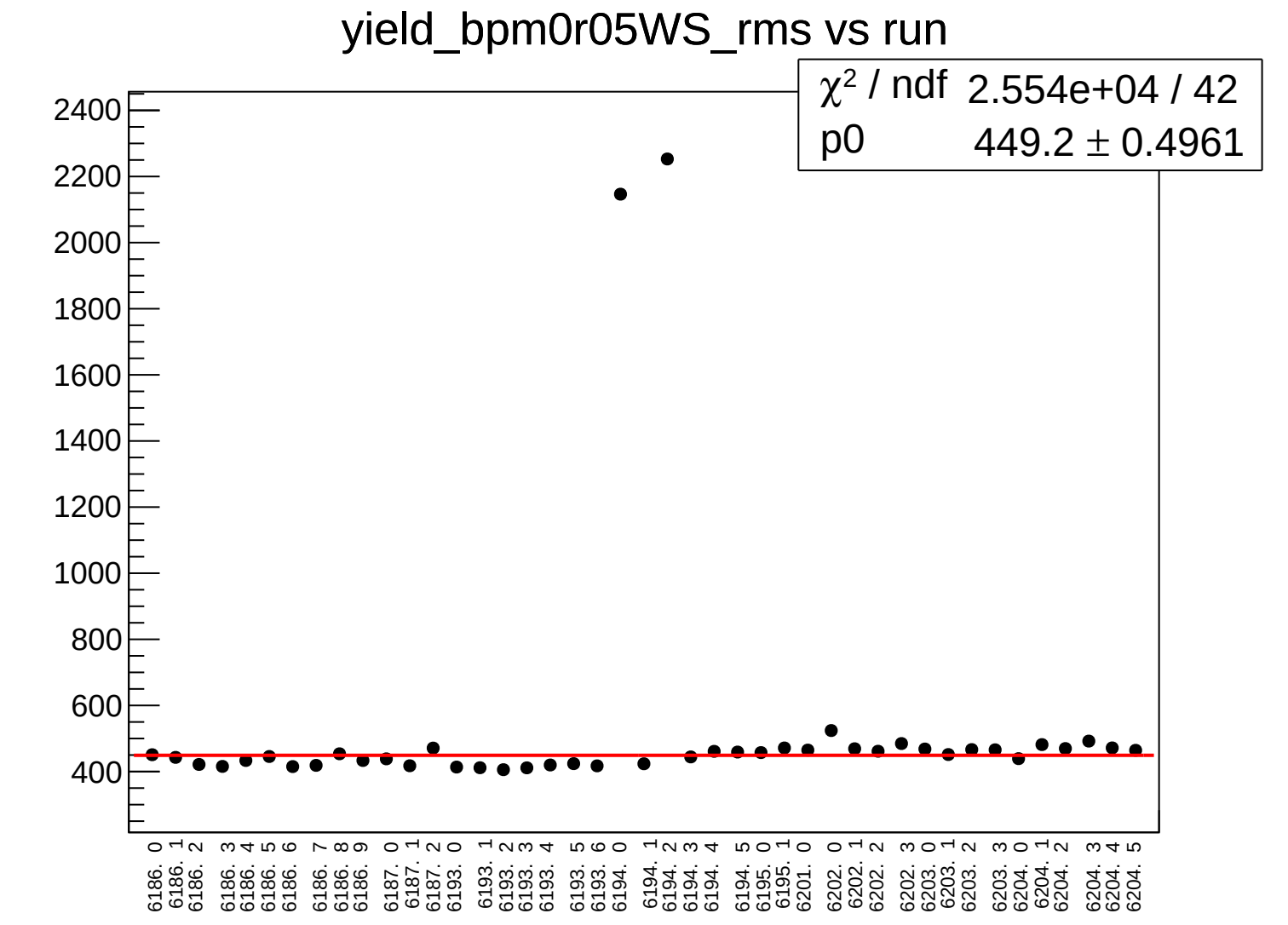

yield_bpm0l10WS_rms vs run
χ² / ndf 4.813e+04 / 42
p0 155 ± 0.1736
2500
2000
1500
1000
500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

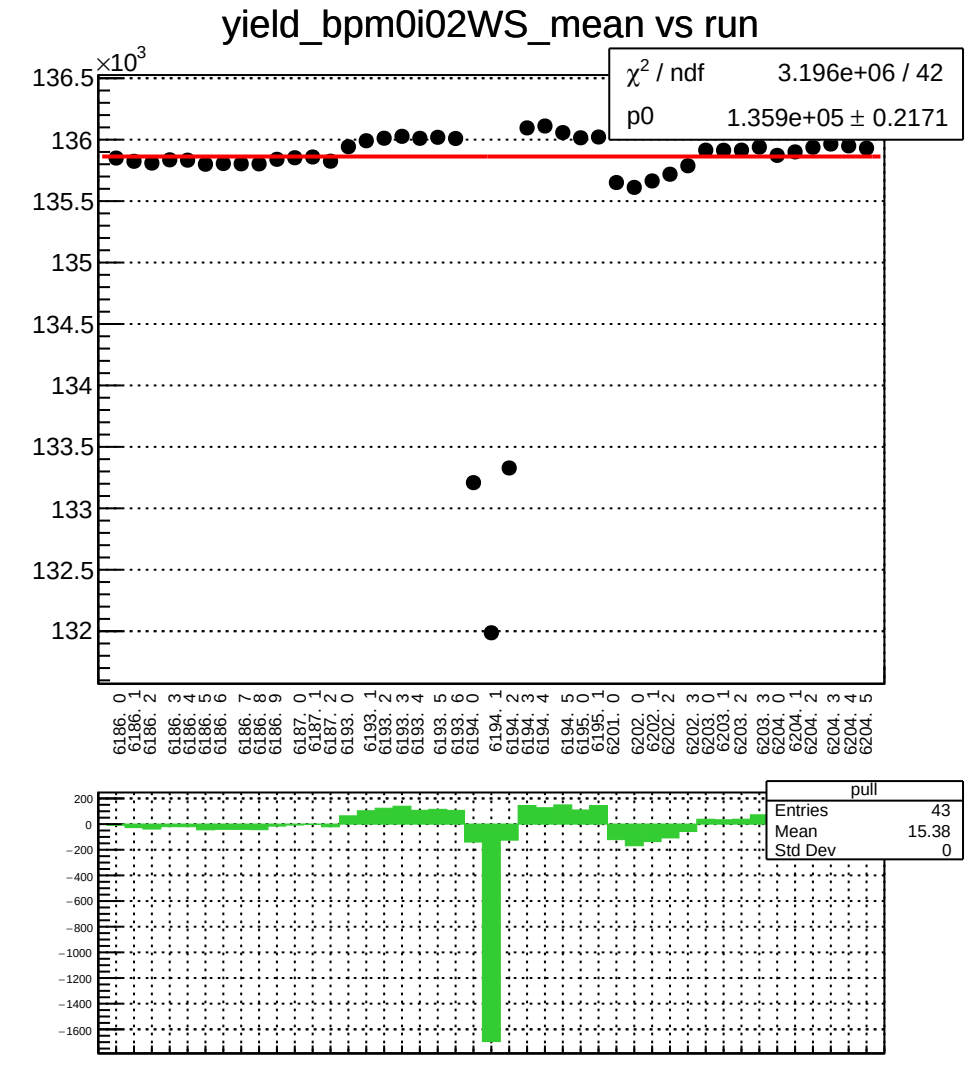

yield_bpm0r03WS_mean vs run
×10^3
144
143
142
141
140
139
χ² / ndf 3.847e+06 / 42
p0 1.432e+05 ± 0.3513
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 29.45
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800
pull1D
Entries 43
Mean 0.262
Std Dev 4.403
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

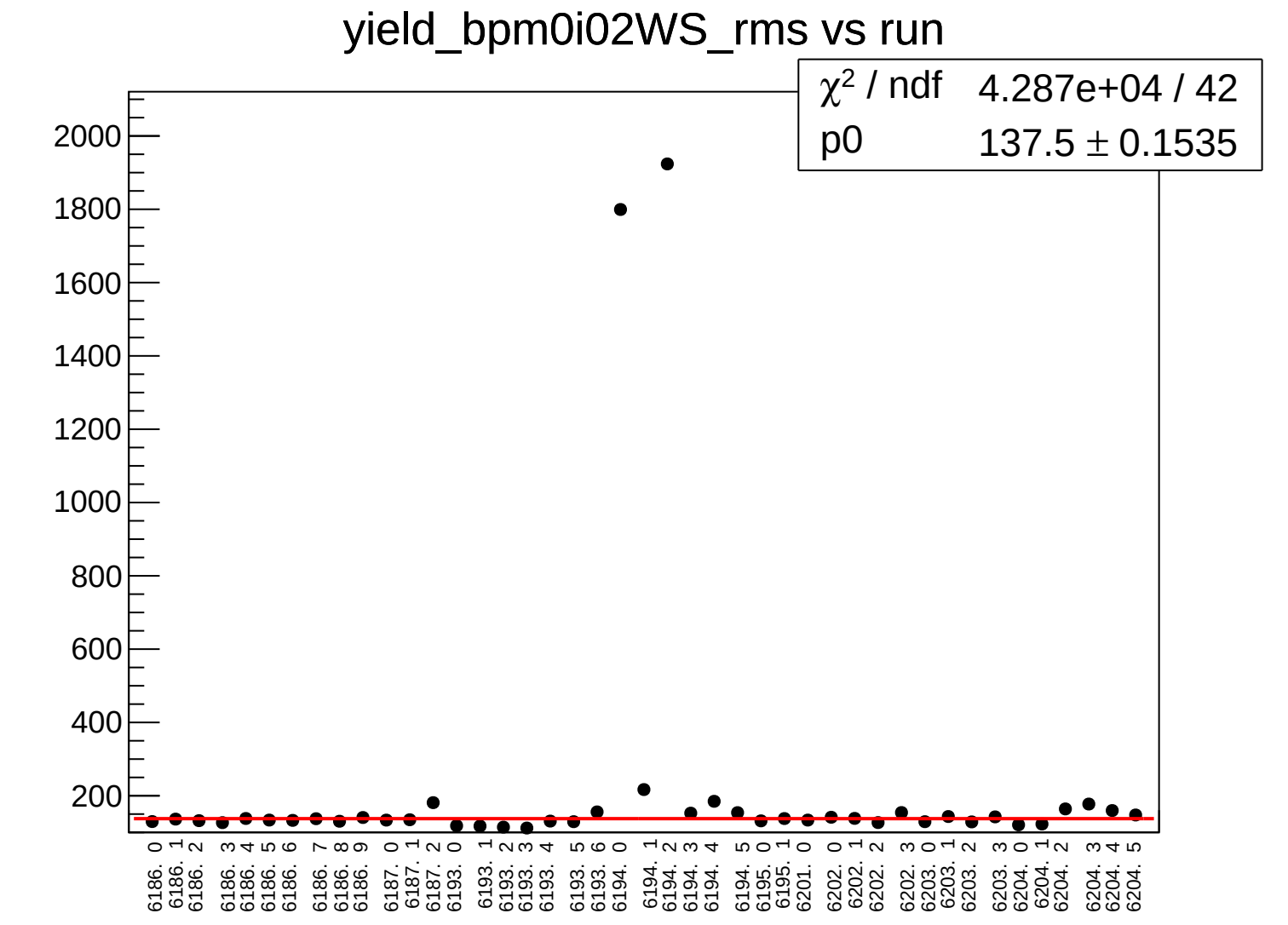

yield_bpm0r03WS_rms vs run
χ² / ndf 6.53e+04 / 42
p0 219.4 ± 0.2484
2500
2000
1500
1000
500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

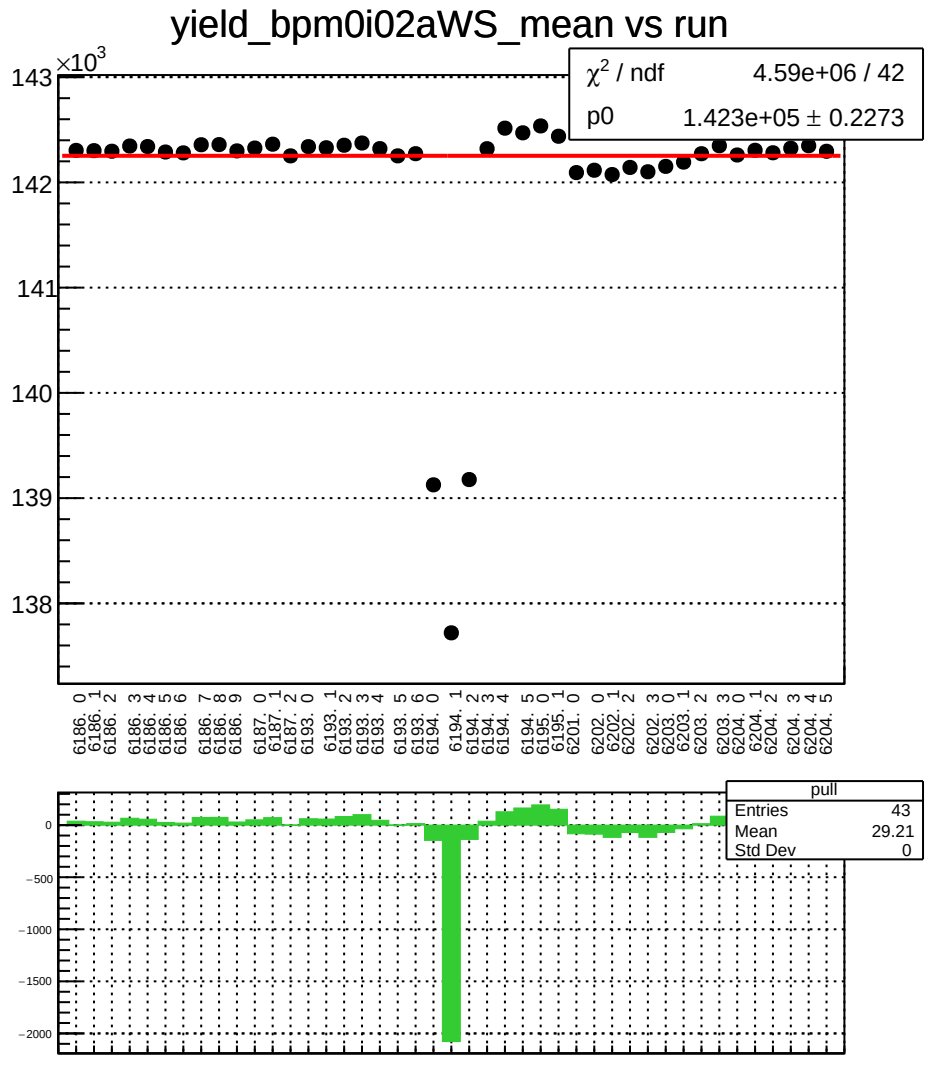

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 1.062e+06 / 42
p0 1.349e+05 ± 0.7016
135
134
133
132
131
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 33.08
Std Dev 0
0
−200
−400
−600
−800
−1000

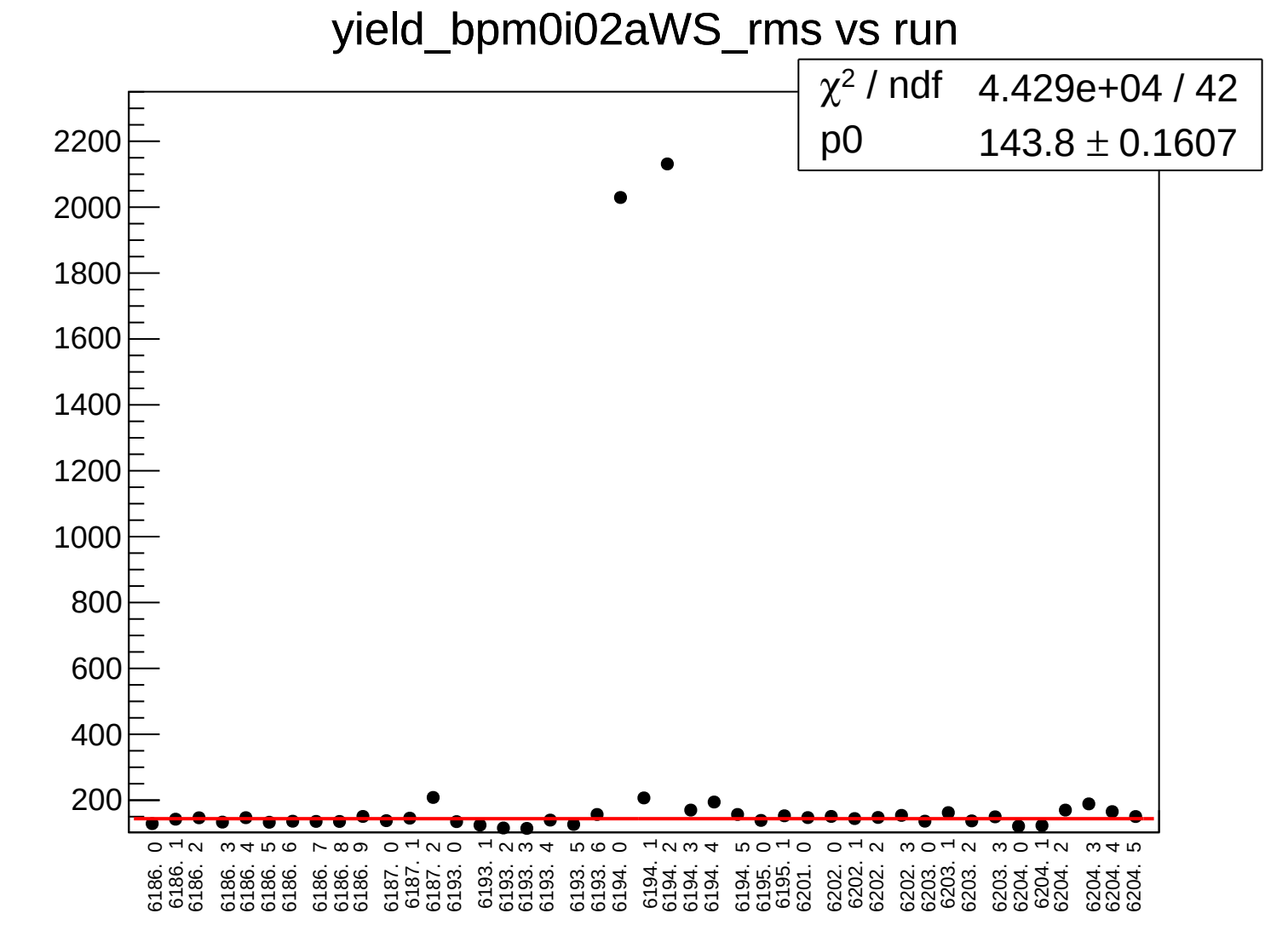

pull1D
Entries 43
Mean −0.7246
Std Dev 5.134
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

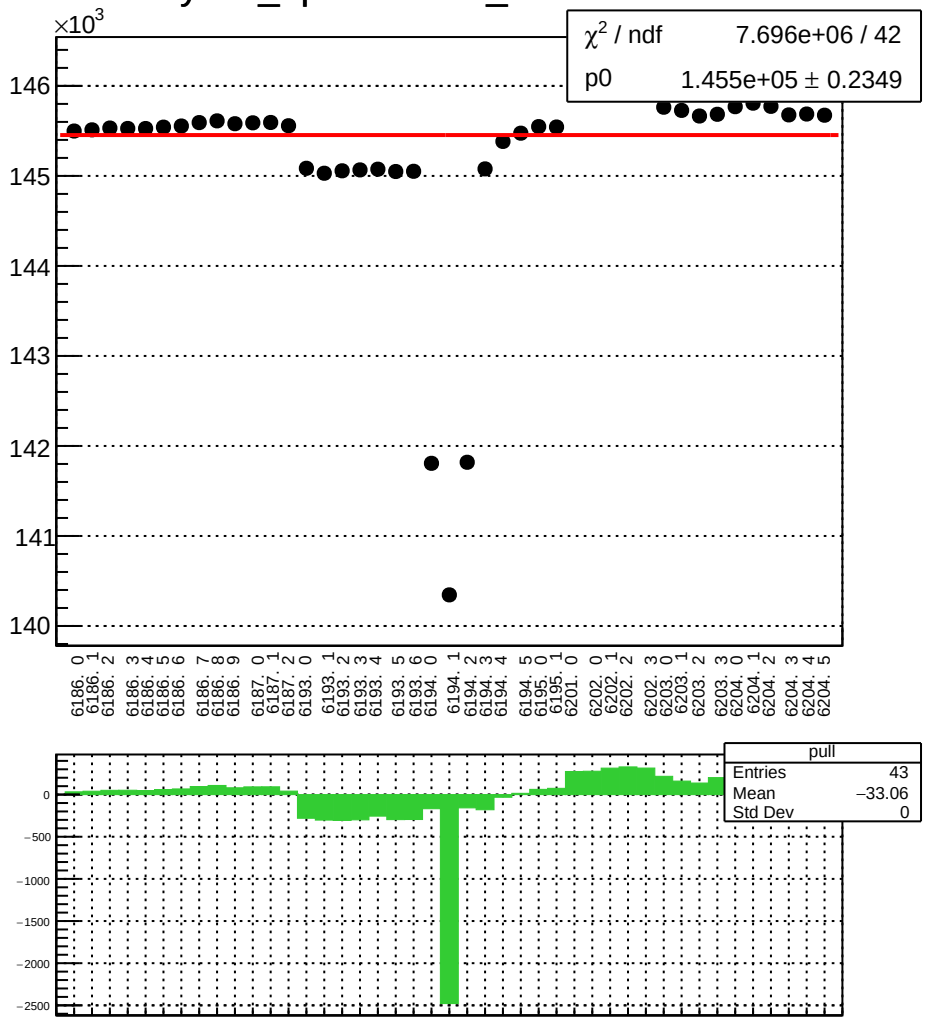

yield_bpm0r05WS_rms vs run
χ² / ndf 2.554e+04 / 42
p0 449.2 ± 0.4961
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

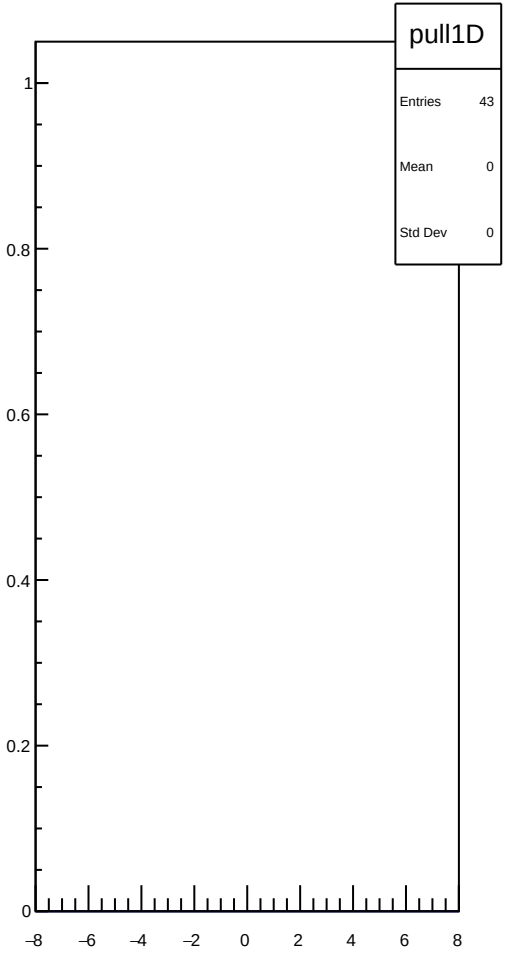

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 3.196e+06 / 42
p0 1.359e+05 ± 0.2171
136.5
136
135.5
135
134.5
134
133.5
133
132.5
132
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 15.38
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull1D
Entries 43
Mean −0.8494
Std Dev 6.014
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

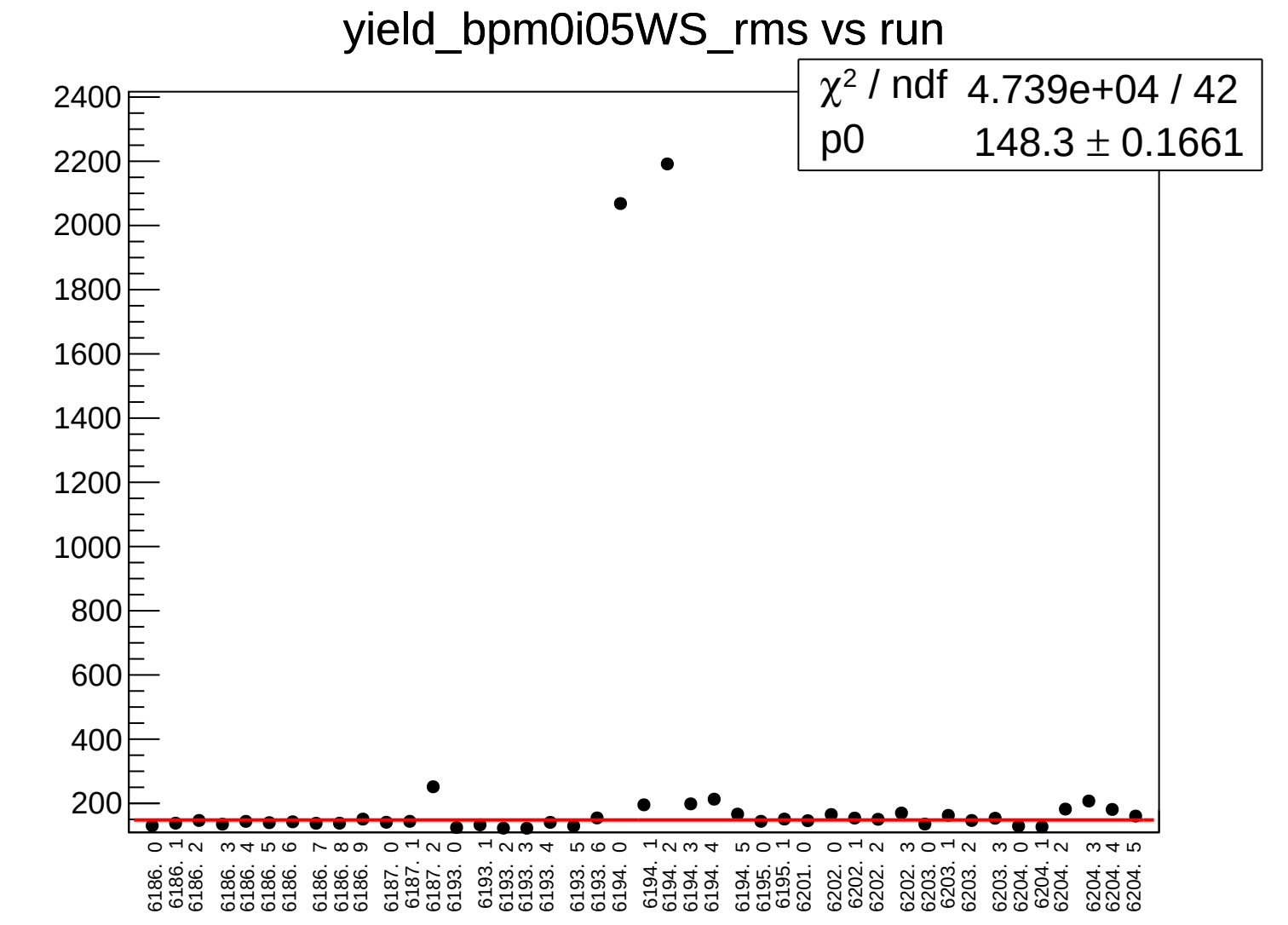

yield_bpm0i02WS_rms vs run
χ² / ndf 4.287e+04 / 42
p0 137.5 ± 0.1535
2000
1800
1600
1400
1200
1000
800
600
400
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

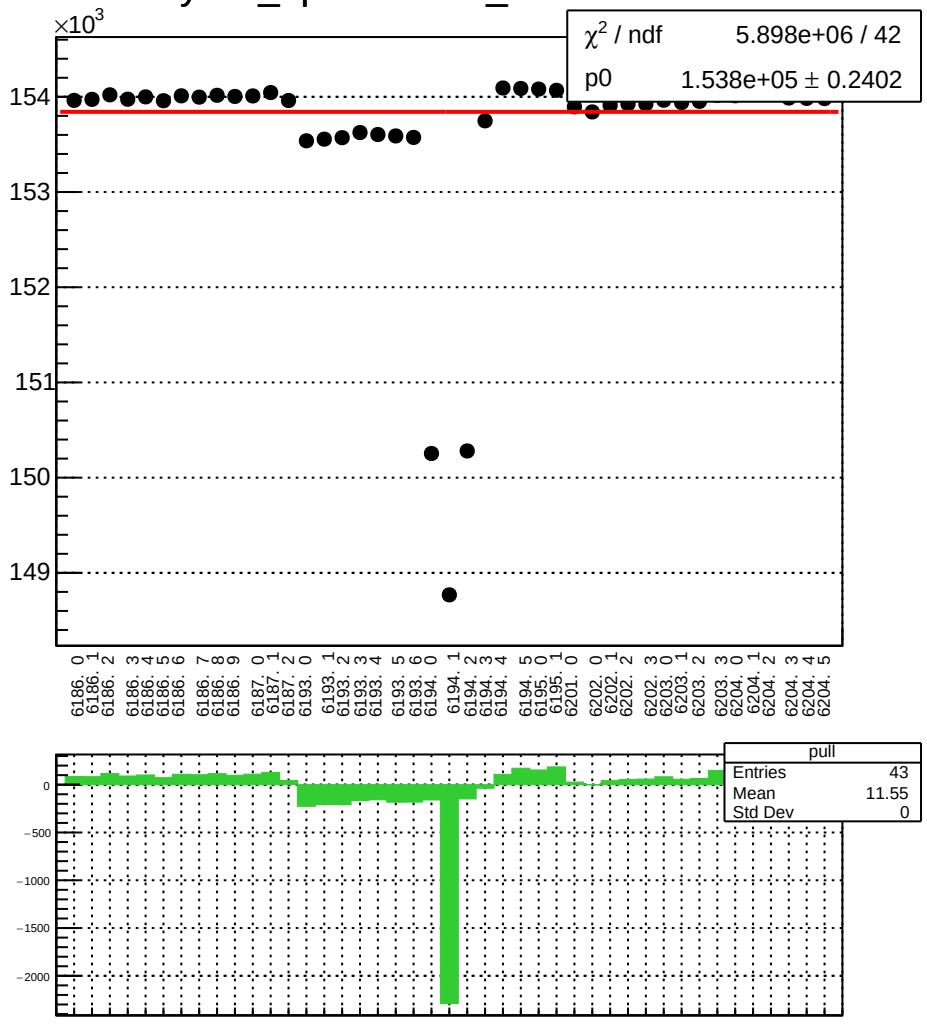

yield_bpm0i02aWS_mean vs run
×10^3
143
142
141
140
139
138
χ² / ndf 4.59e+06 / 42
p0 1.423e+05 ± 0.2273
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 29.21
Std Dev 0
0
−500
−1000
−1500
−2000
pull1D
Entries 43
Mean 1.752
Std Dev 2.964
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

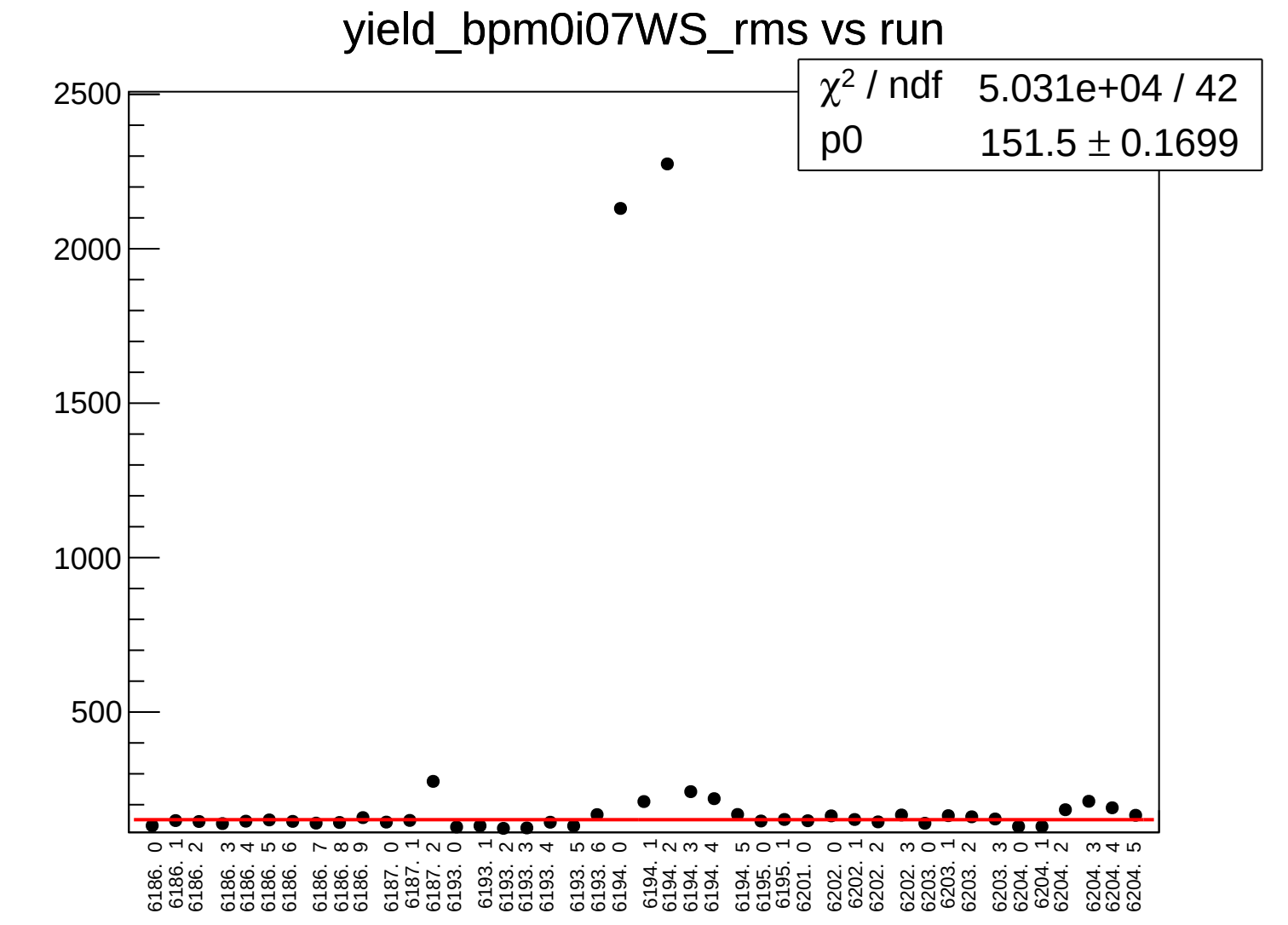

yield_bpm0i02aWS_rms vs run
χ² / ndf 4.429e+04 / 42
p0 143.8 ± 0.1607
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

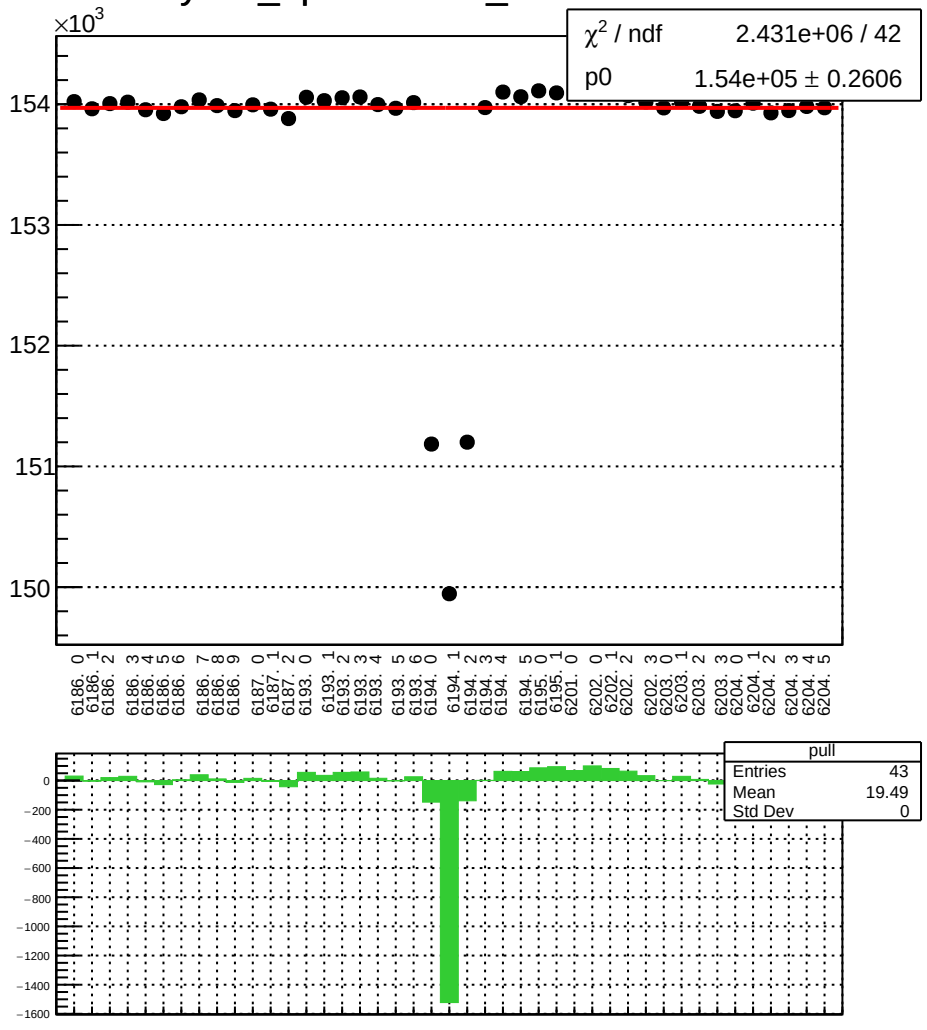

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 7.696e+06 / 42
p0 1.455e+05 ± 0.2349
146
145
144
143
142
141
140
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −33.06
Std Dev 0
0
−500
−1000
−1500
−2000
−2500

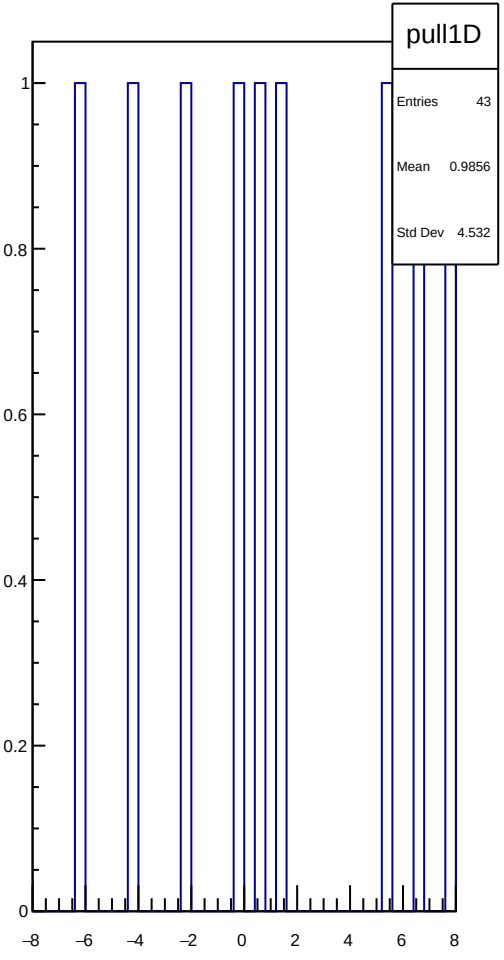

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

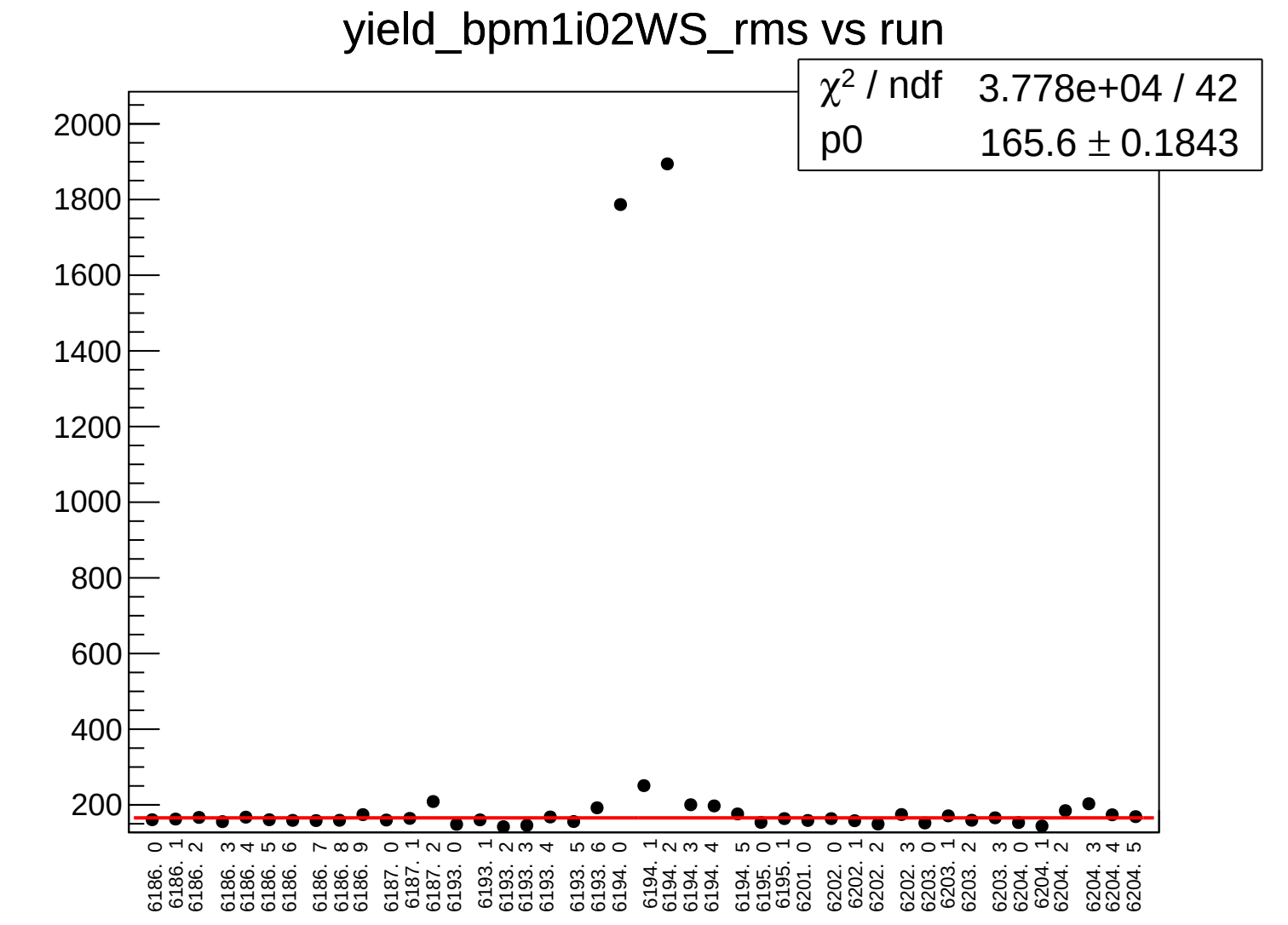

yield_bpm0i05WS_rms vs run
χ² / ndf 4.739e+04 / 42
p0 148.3 ± 0.1661
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

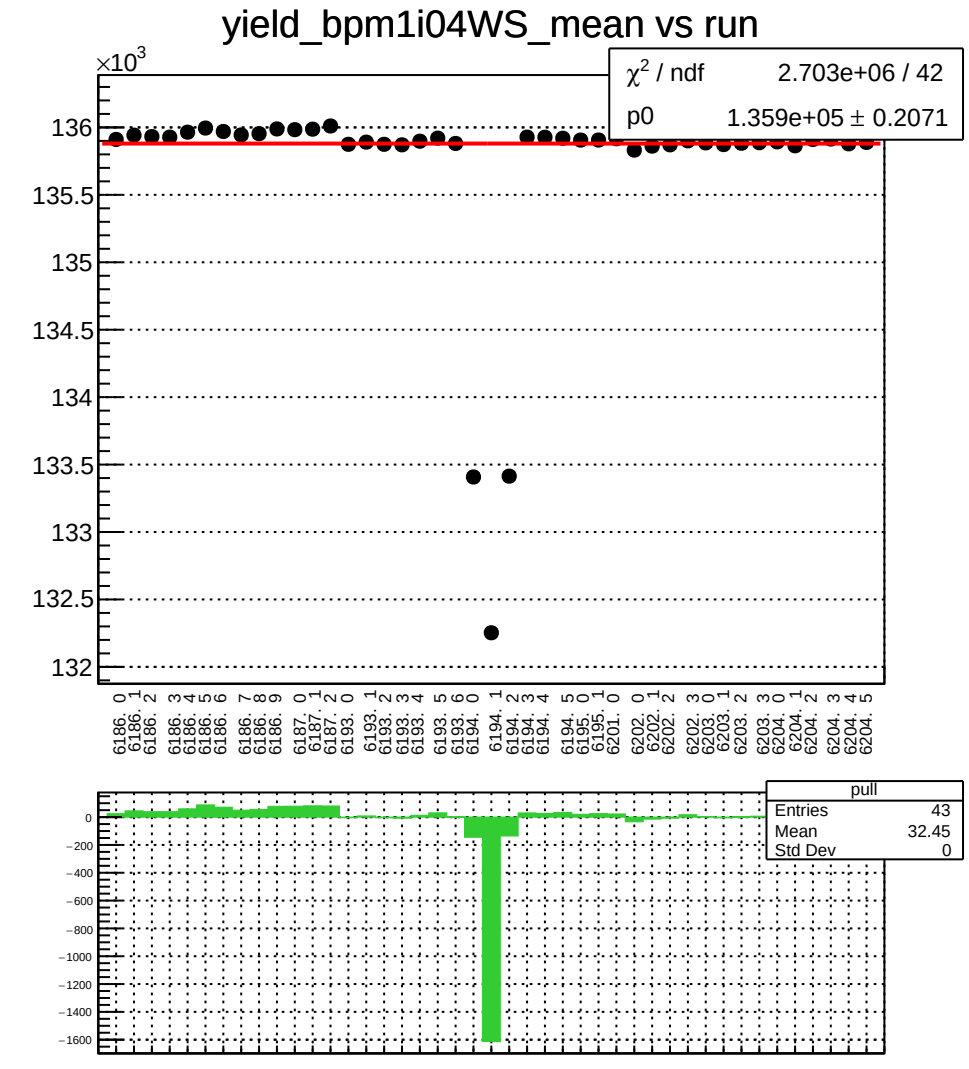

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 5.898e+06 / 42
p0 1.538e+05 ± 0.2402
154
153
152
151
150
149
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 11.55
Std Dev 0
0
−500
−1000
−1500
−2000
pull1D
Entries 43
Mean −0.5712
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

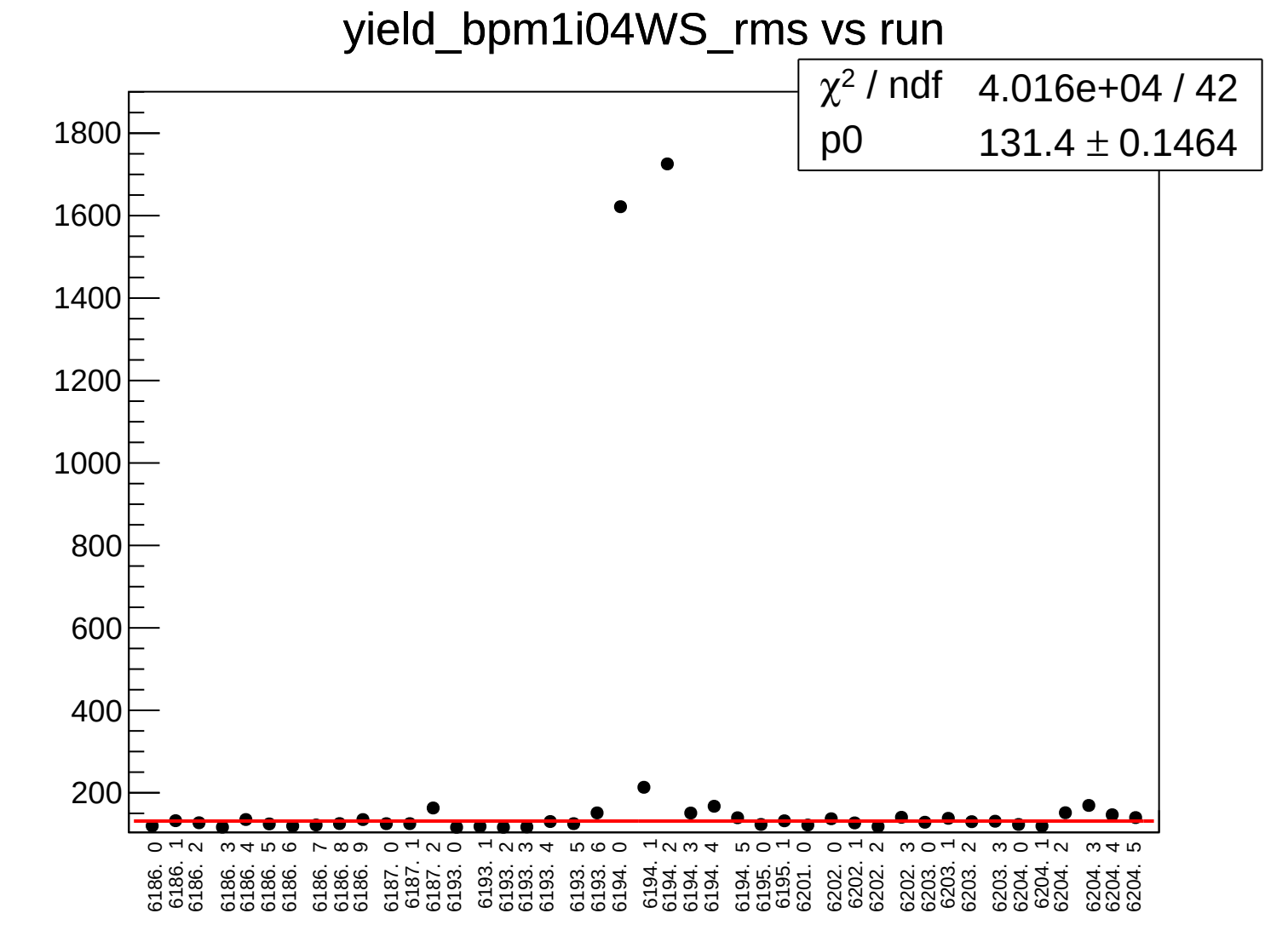

yield_bpm0i07WS_rms vs run
χ² / ndf 5.031e+04 / 42
p0 151.5 ± 0.1699
2500
2000
1500
1000
500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

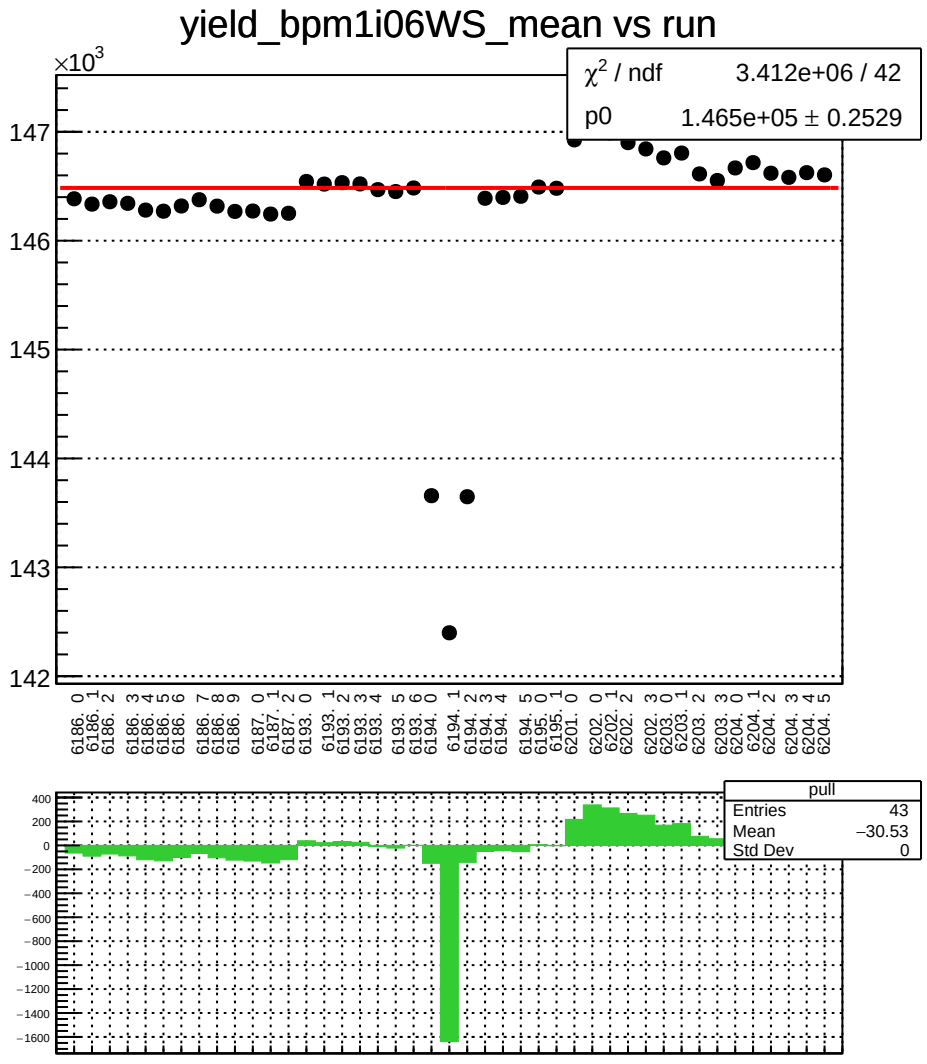

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 2.431e+06 / 42
p0 1.54e+05 ± 0.2606
154
153
152
151
150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 19.49
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

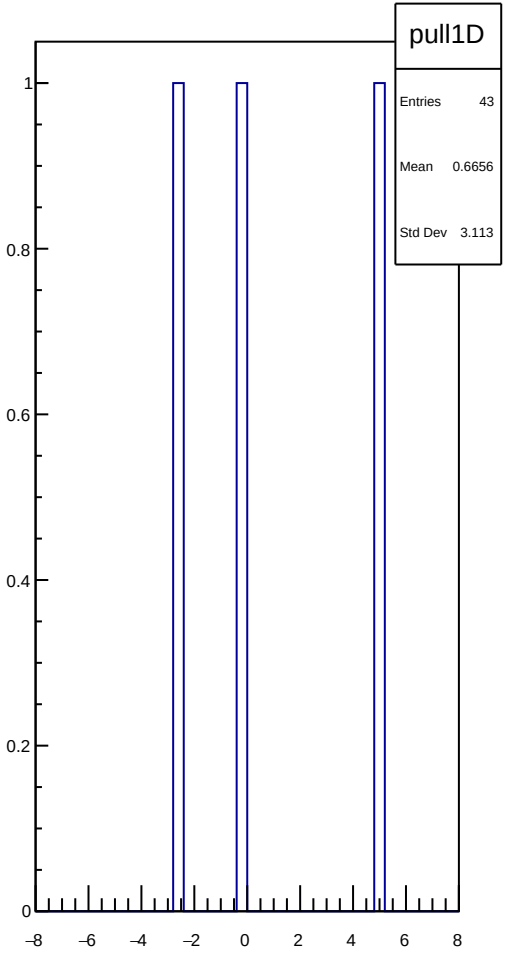

pull1D
Entries 43
Mean 0.9856
Std Dev 4.532
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

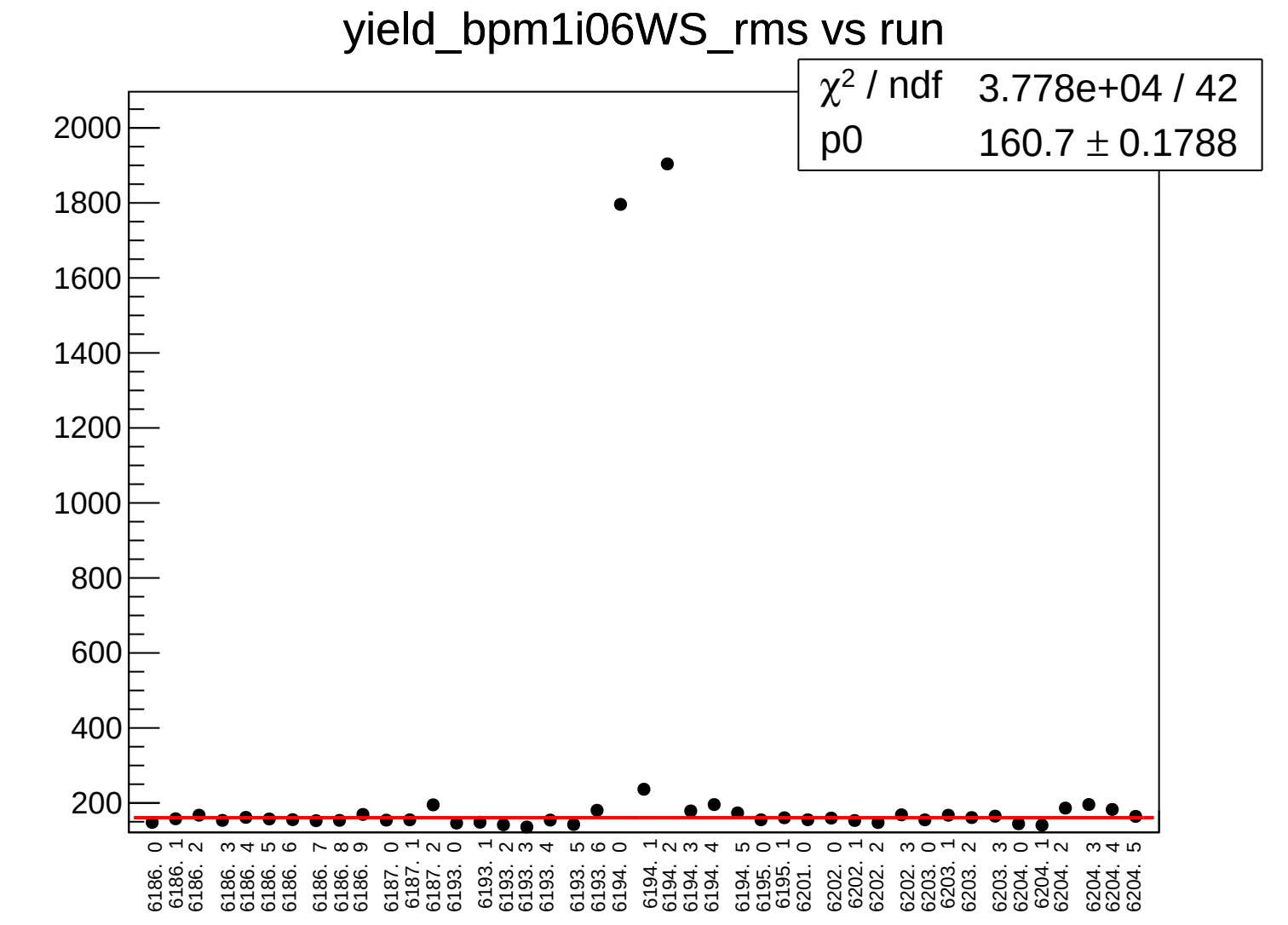

yield_bpm1i02WS_rms vs run
χ² / ndf 3.778e+04 / 42
p0 165.6 ± 0.1843
2000
1800
1600
1400
1200
1000
800
600
400
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

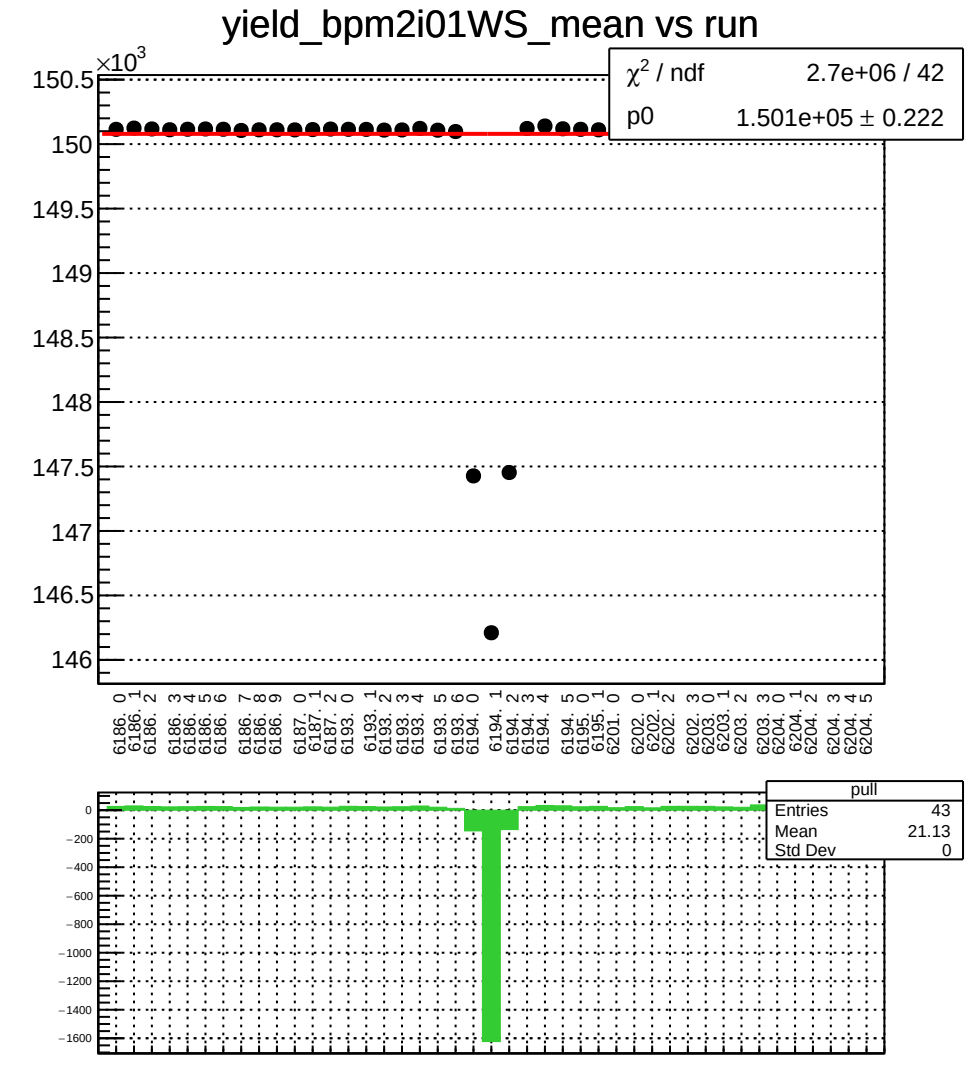

yield_bpm1i04WS_mean vs run
χ² / ndf 2.703e+06 / 42
p0 1.359e+05 ± 0.2071
×10³
136
135.5
135
134.5
134
133.5
133
132.5
132
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 32.45
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull1D
Entries 43
Mean −0.8549
Std Dev 5.194
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

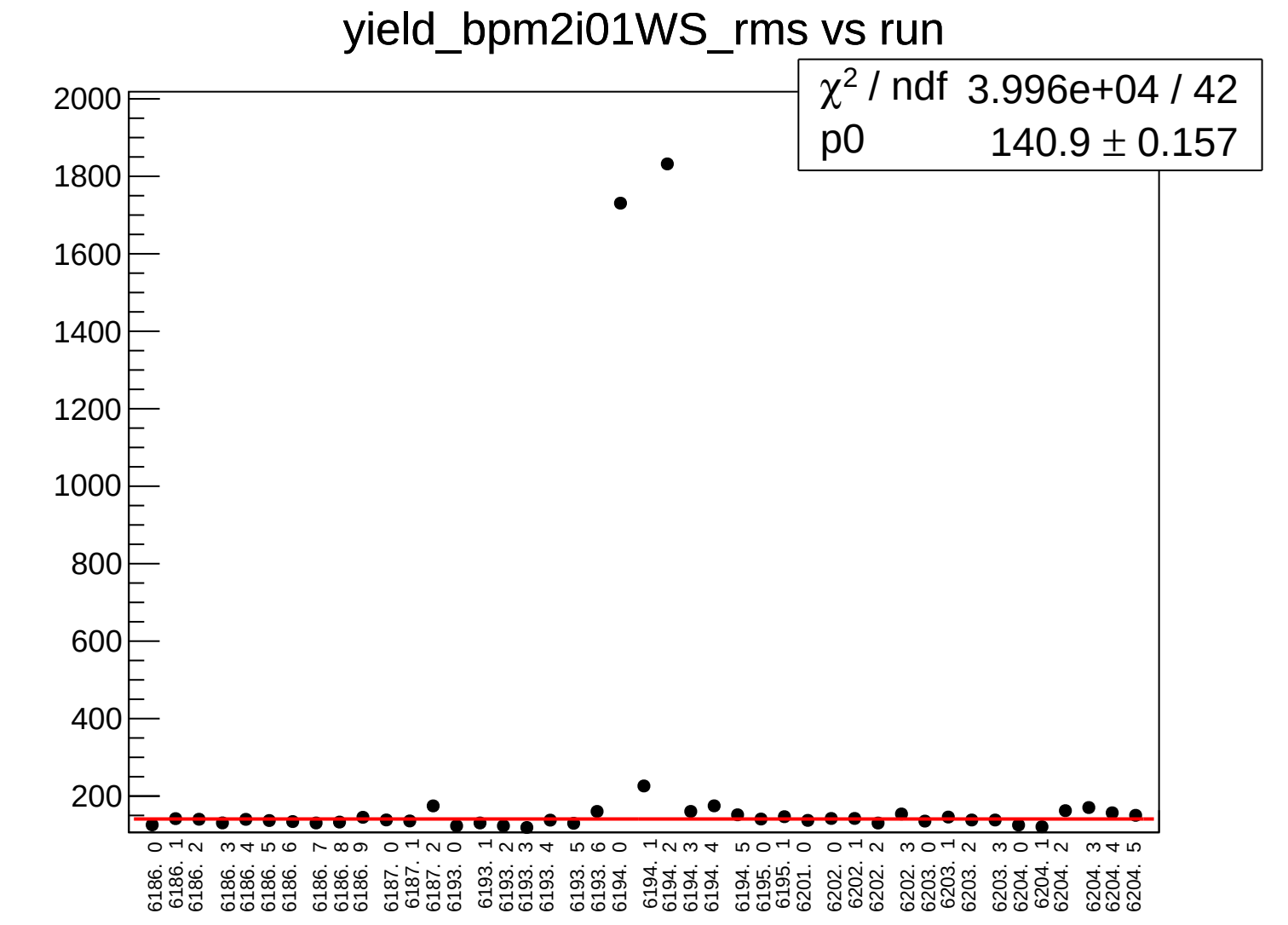

yield_bpm1i04WS_rms vs run
χ² / ndf 4.016e+04 / 42
p0 131.4 ± 0.1464
1800
1600
1400
1200
1000
800
600
400
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

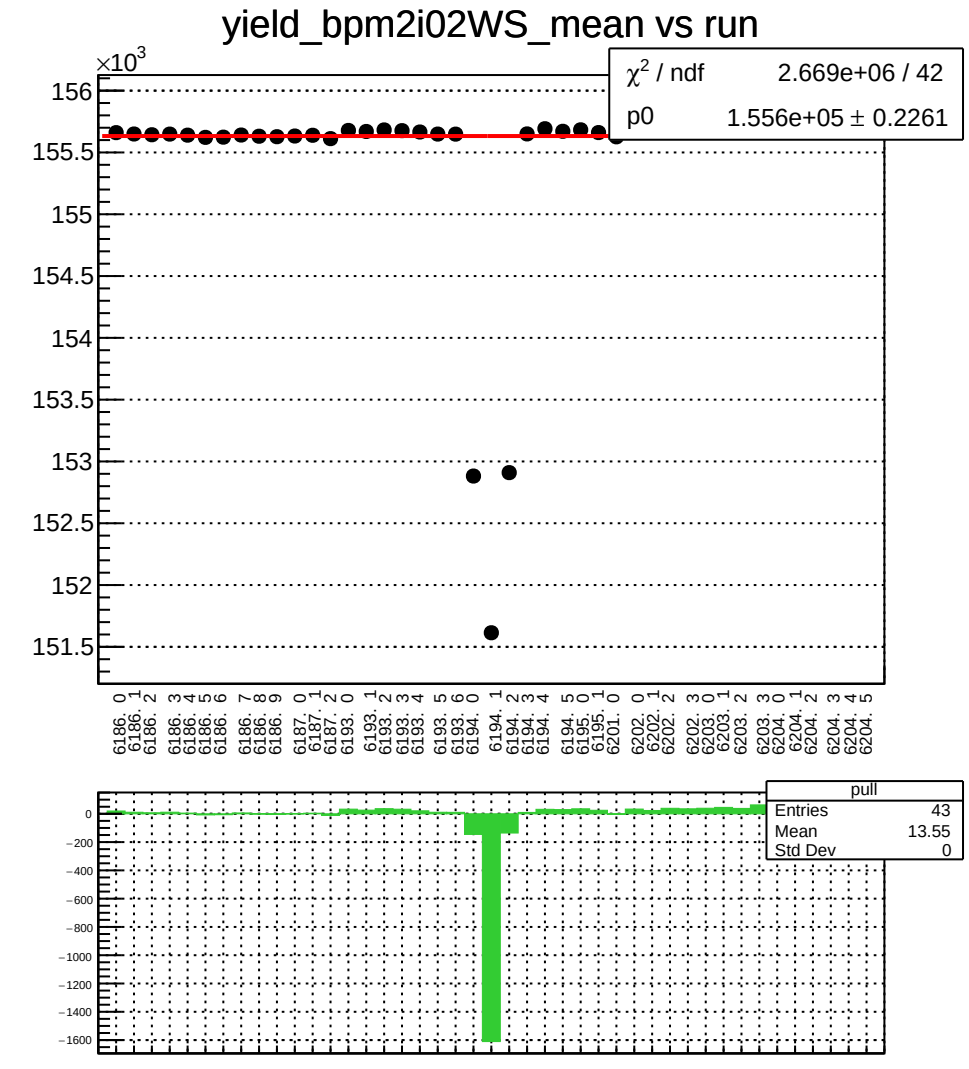

yield_bpm1i06WS_mean vs run
×10^3
χ^2 / ndf 3.412e+06 / 42
p0 1.465e+05 ± 0.2529
147
146
145
144
143
142
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −30.53
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

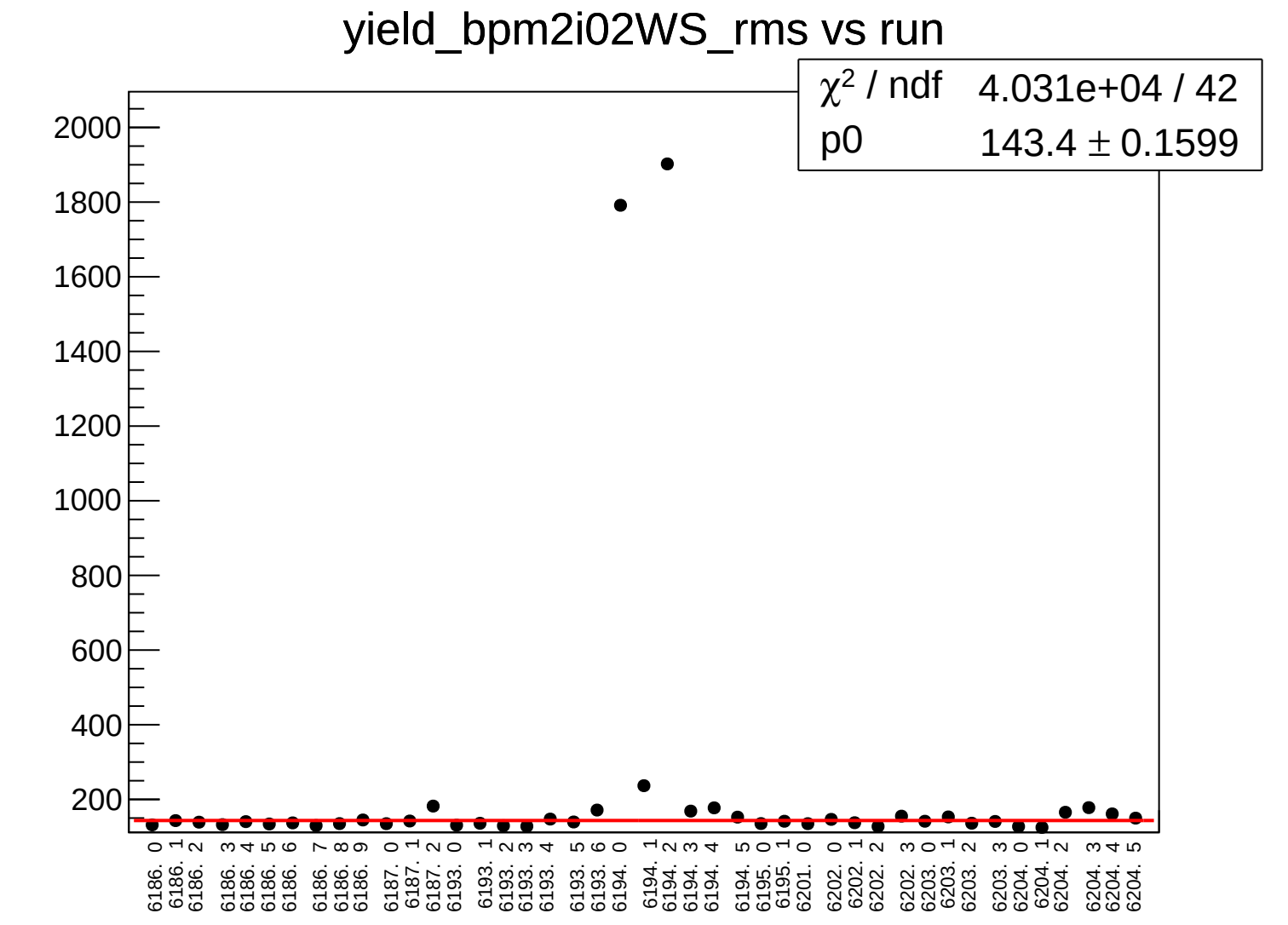

pull1D
Entries 43
Mean 0.6656
Std Dev 3.113
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

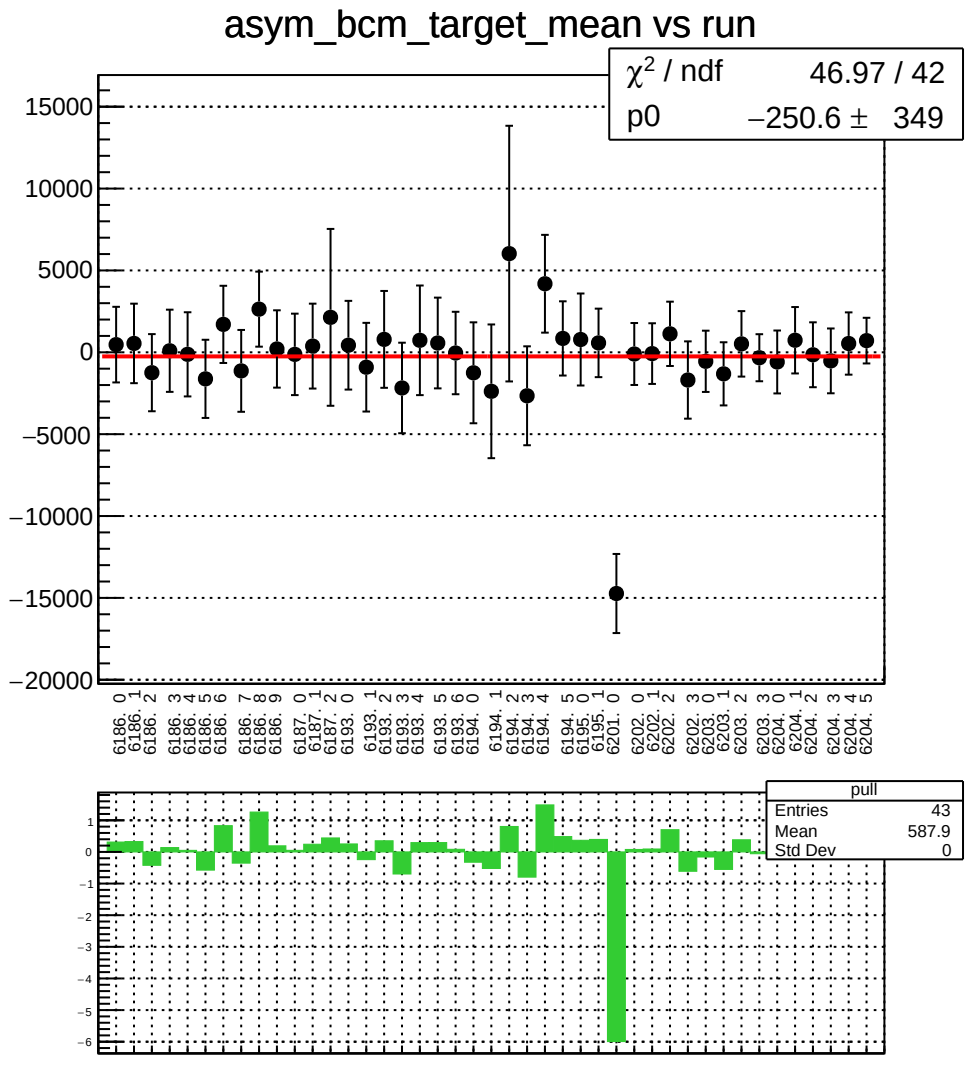

yield_bpm1i06WS_rms vs run
χ² / ndf 3.778e+04 / 42
p0 160.7 ± 0.1788
2000
1800
1600
1400
1200
1000
800
600
400
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

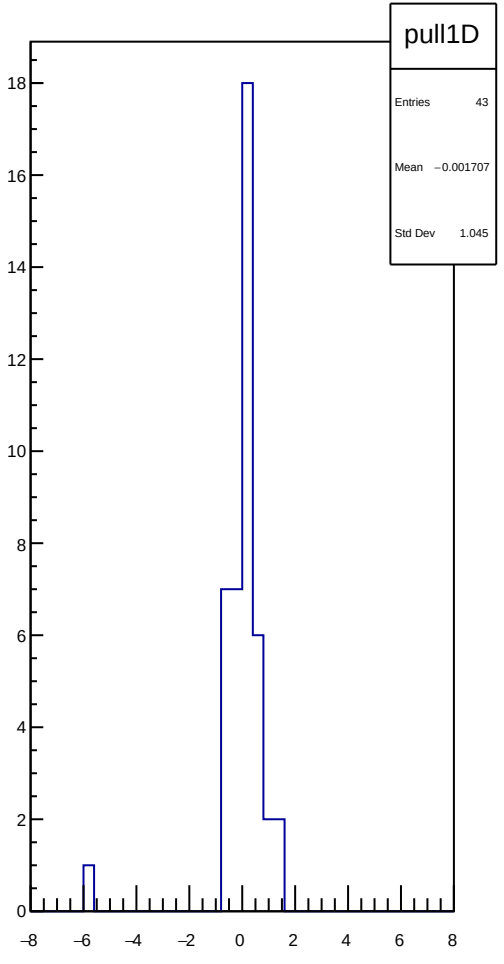

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.7e+06 / 42
p0 1.501e+05 ± 0.222
150.5
150
149.5
149
148.5
148
147.5
147
146.5
146
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 21.13
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

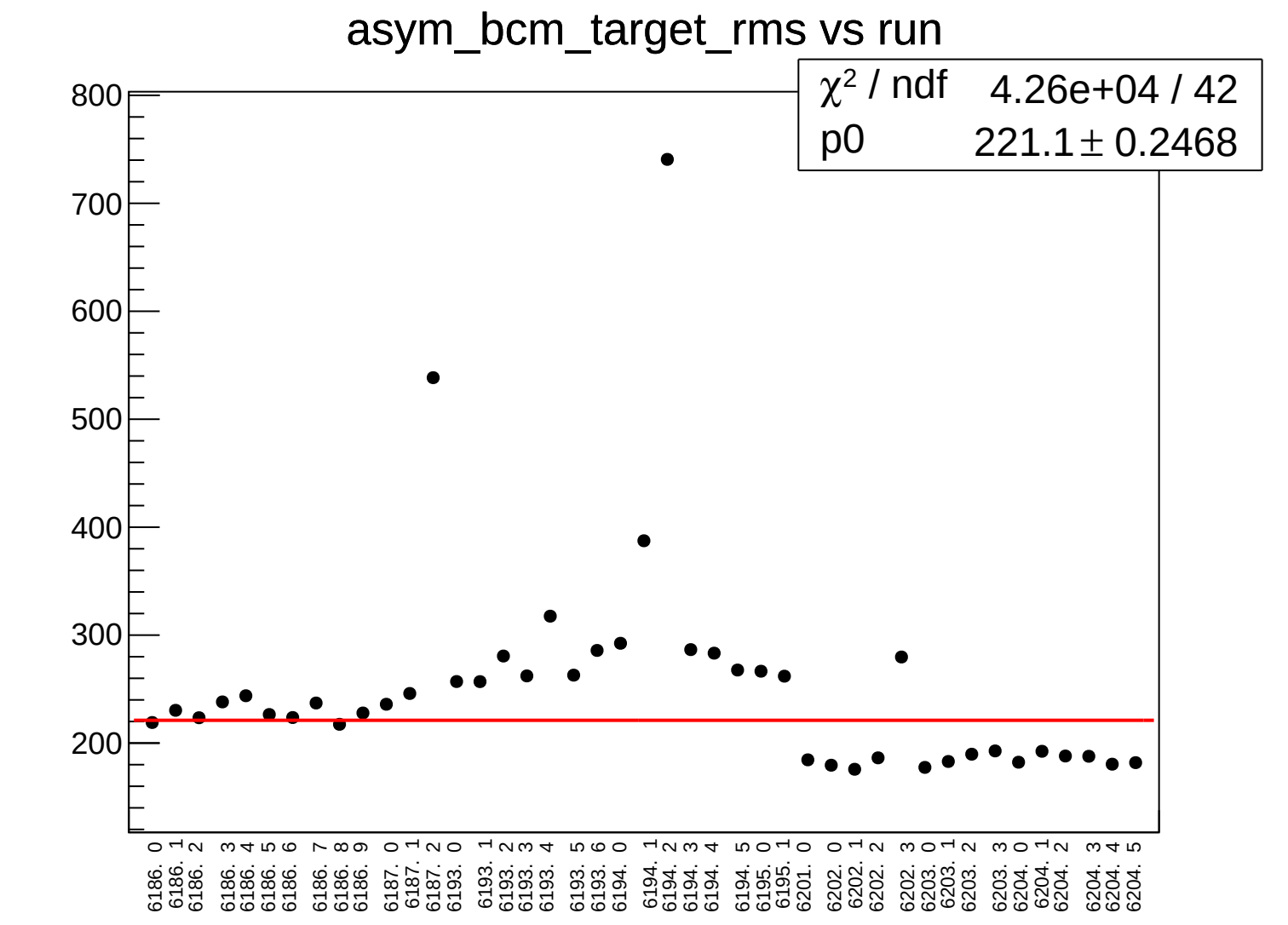

yield_bpm2i01WS_rms vs run
χ² / ndf 3.996e+04 / 42
p0 140.9 ± 0.157
2000
1800
1600
1400
1200
1000
800
600
400
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

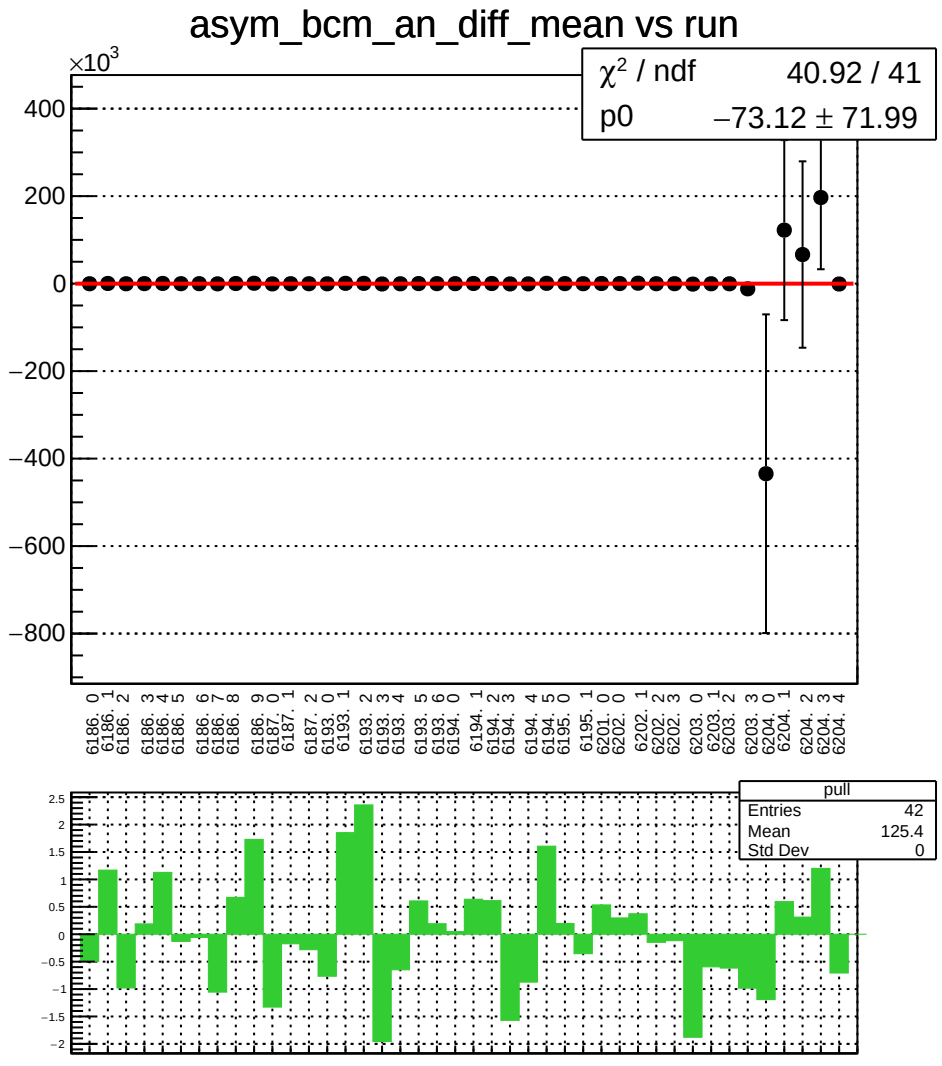

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.669e+06 / 42
p0 1.556e+05 ± 0.2261
156
155.5
155
154.5
154
153.5
153
152.5
152
151.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 13.55
Std Dev 0
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull1D
Entries 43
Mean 0.007966
Std Dev 4.992
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

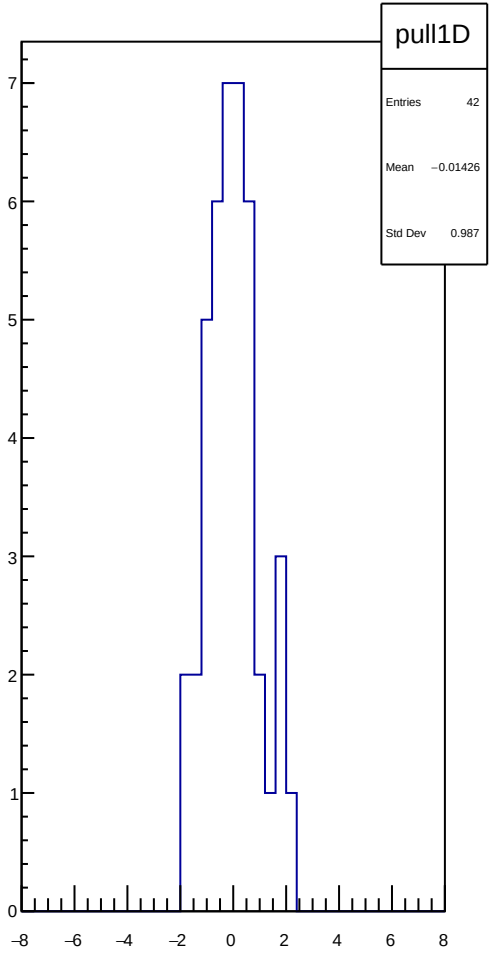

yield_bpm2i02WS_rms vs run
χ² / ndf 4.031e+04 / 42
p0 143.4 ± 0.1599
2000
1800
1600
1400
1200
1000
800
600
400
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

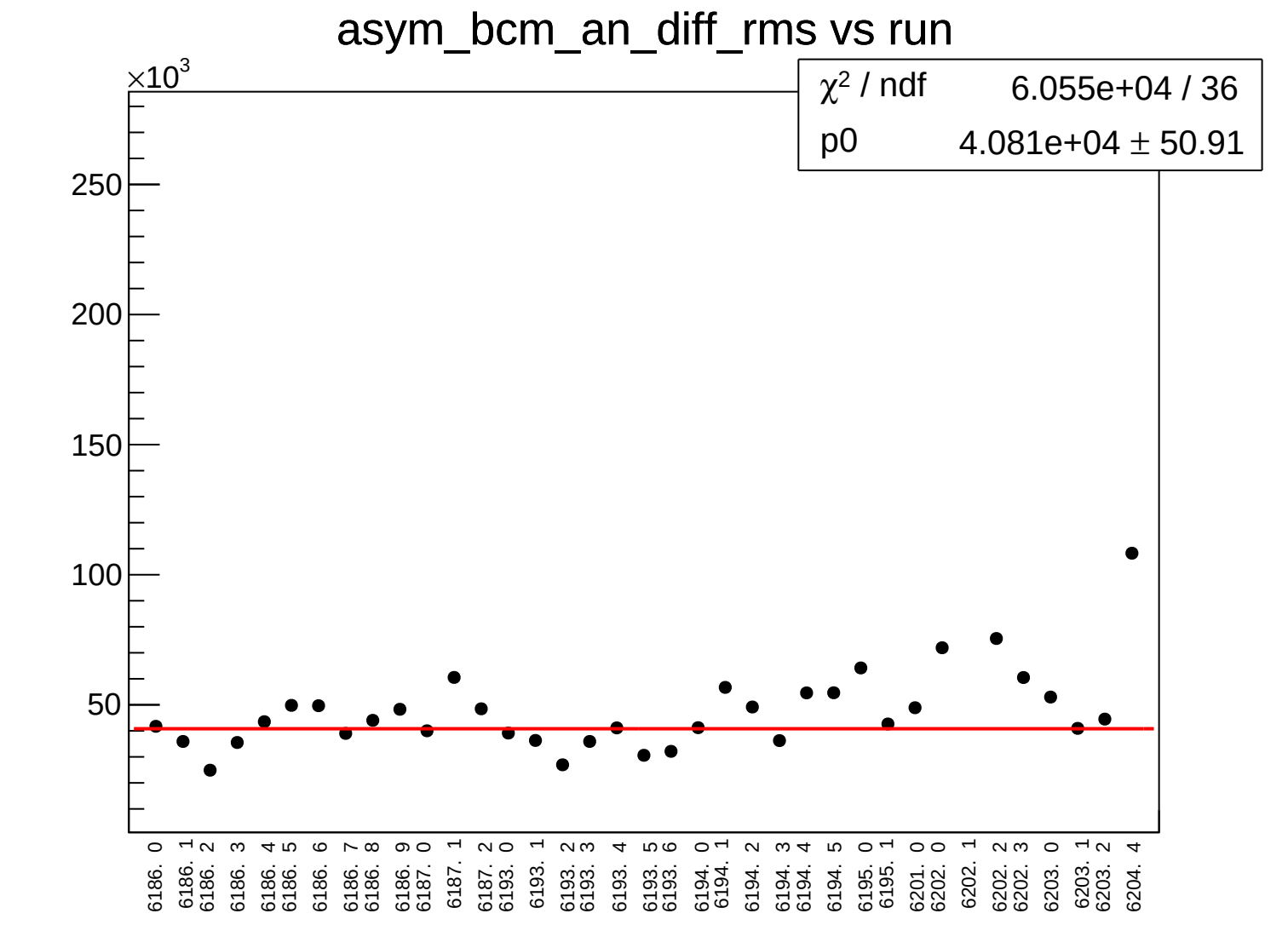

asym_bcm_target_mean vs run
χ² / ndf 46.97 / 42
p0 −250.6 ± 349
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 587.9
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6

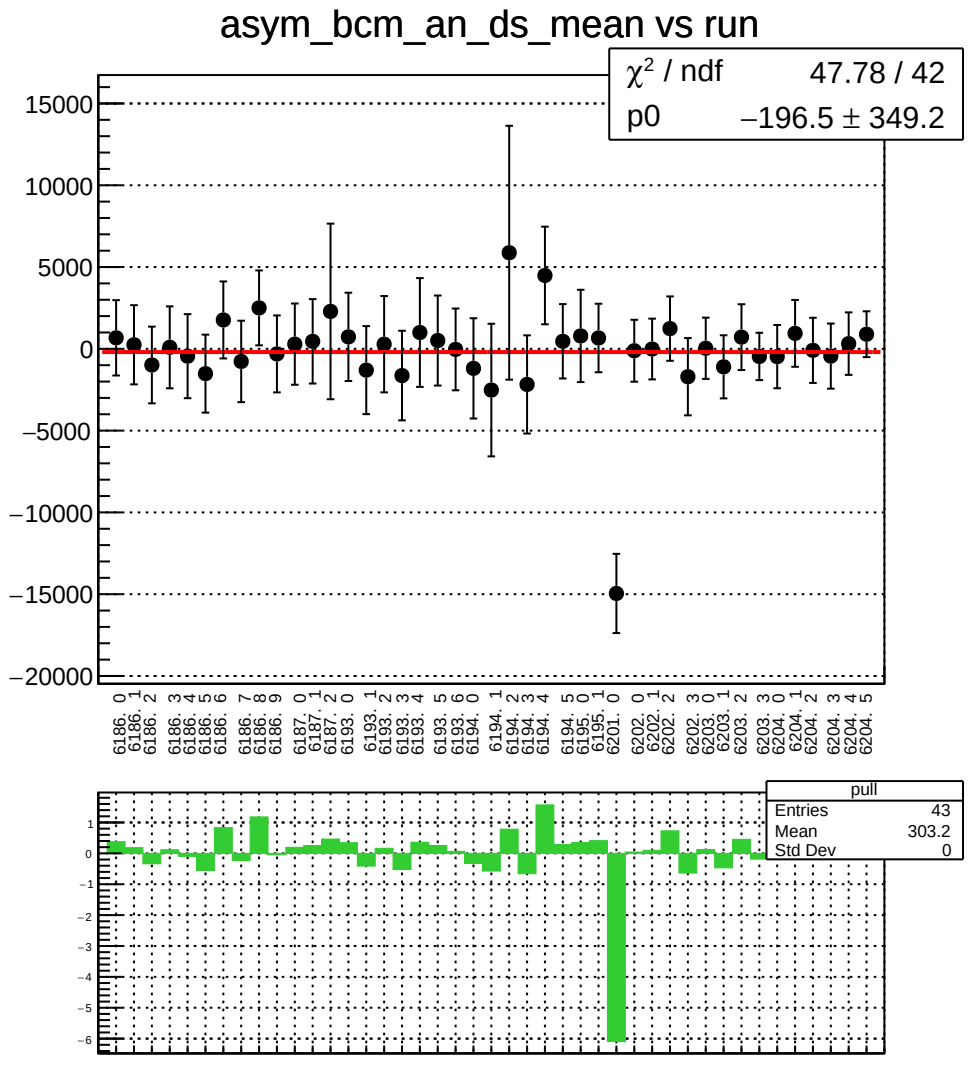

pull1D
Entries 43
Mean −0.001707
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

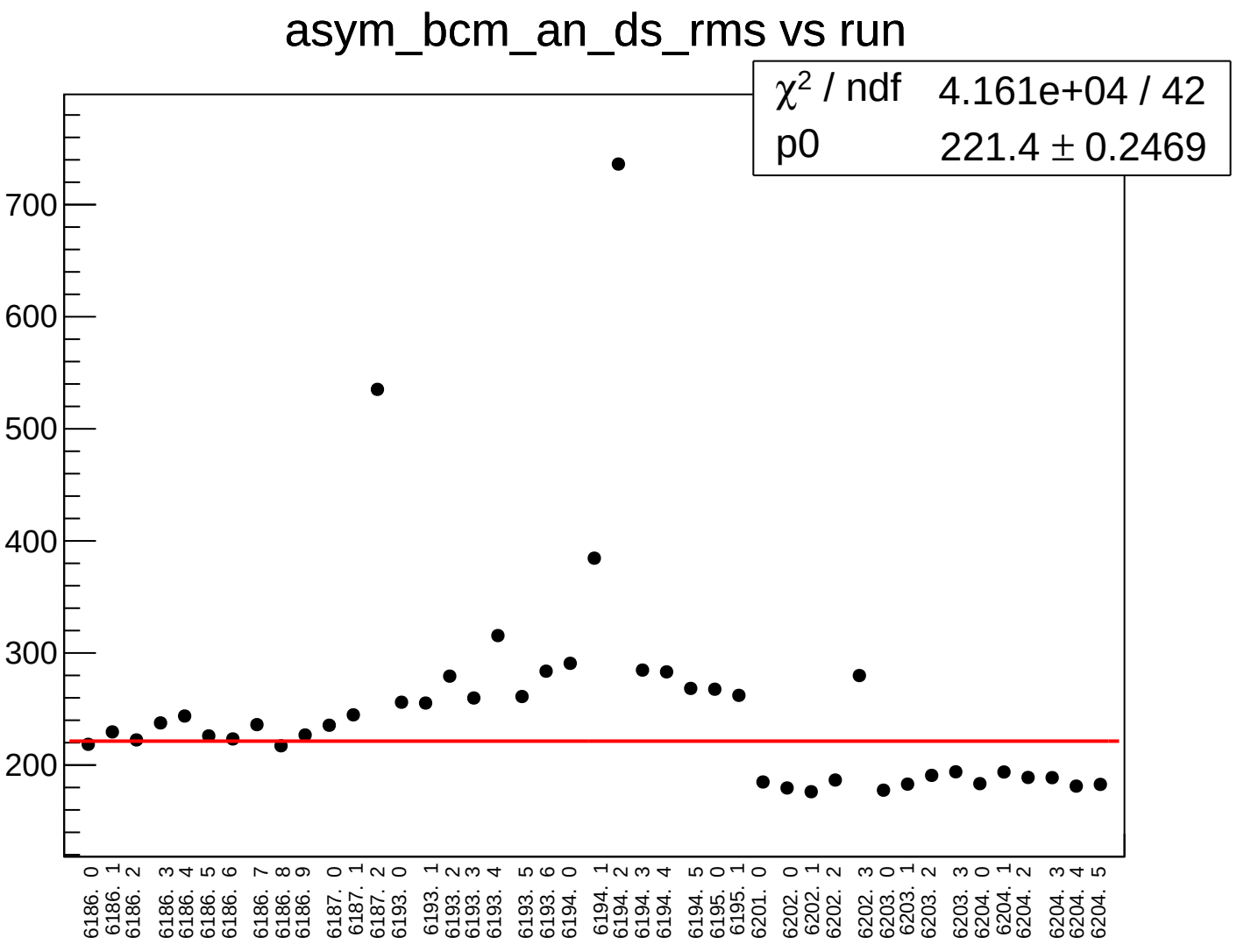

asym_bcm_target_rms vs run
χ^2 / ndf 4.26e+04 / 42
p0 221.1 ± 0.2468
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

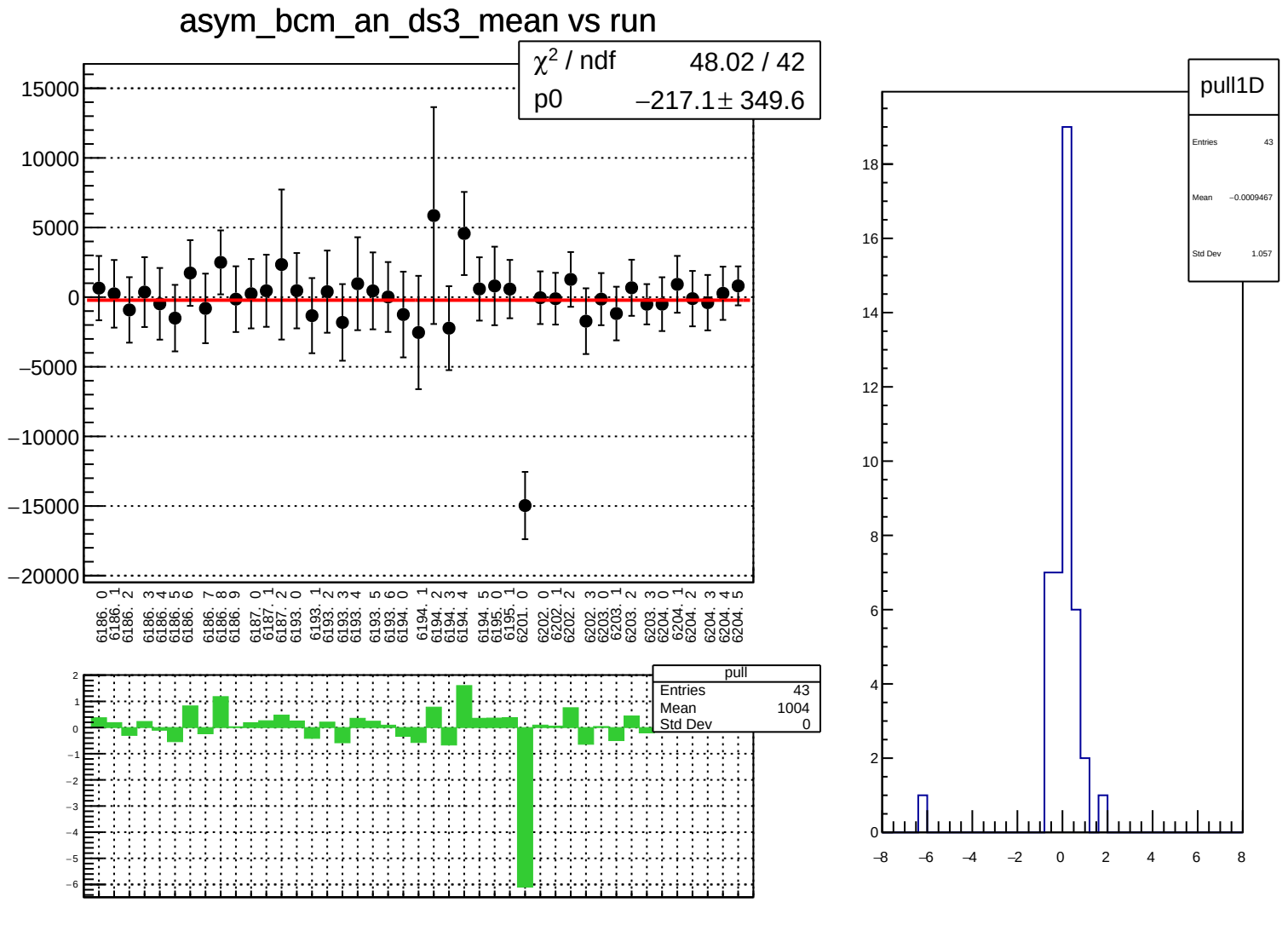

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 40.92 / 41
p0 −73.12 ± 71.99
400
200
0
−200
−400
−600
−800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
pull
Entries 42
Mean 125.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

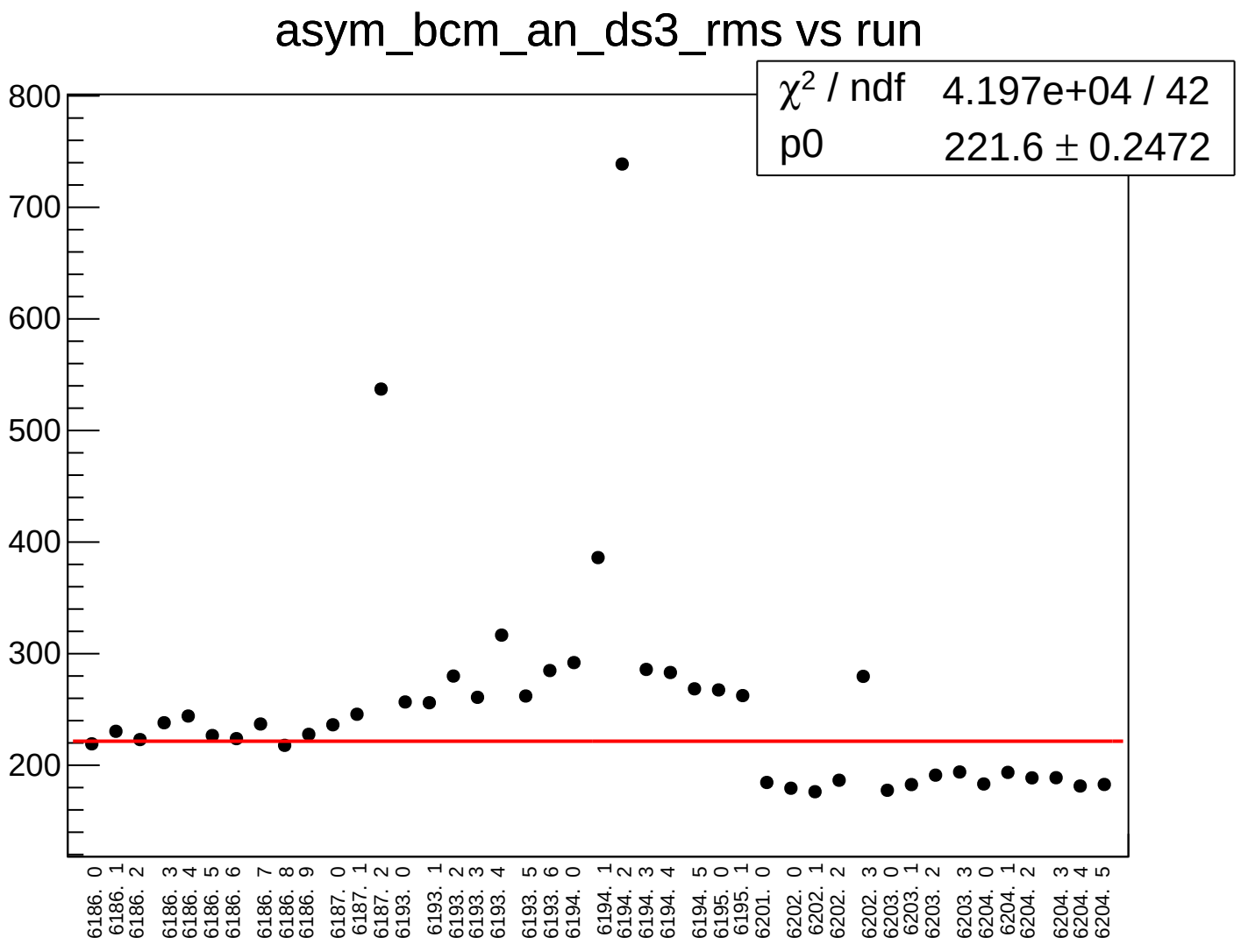

pull1D
Entries 42
Mean −0.01426
Std Dev 0.987
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

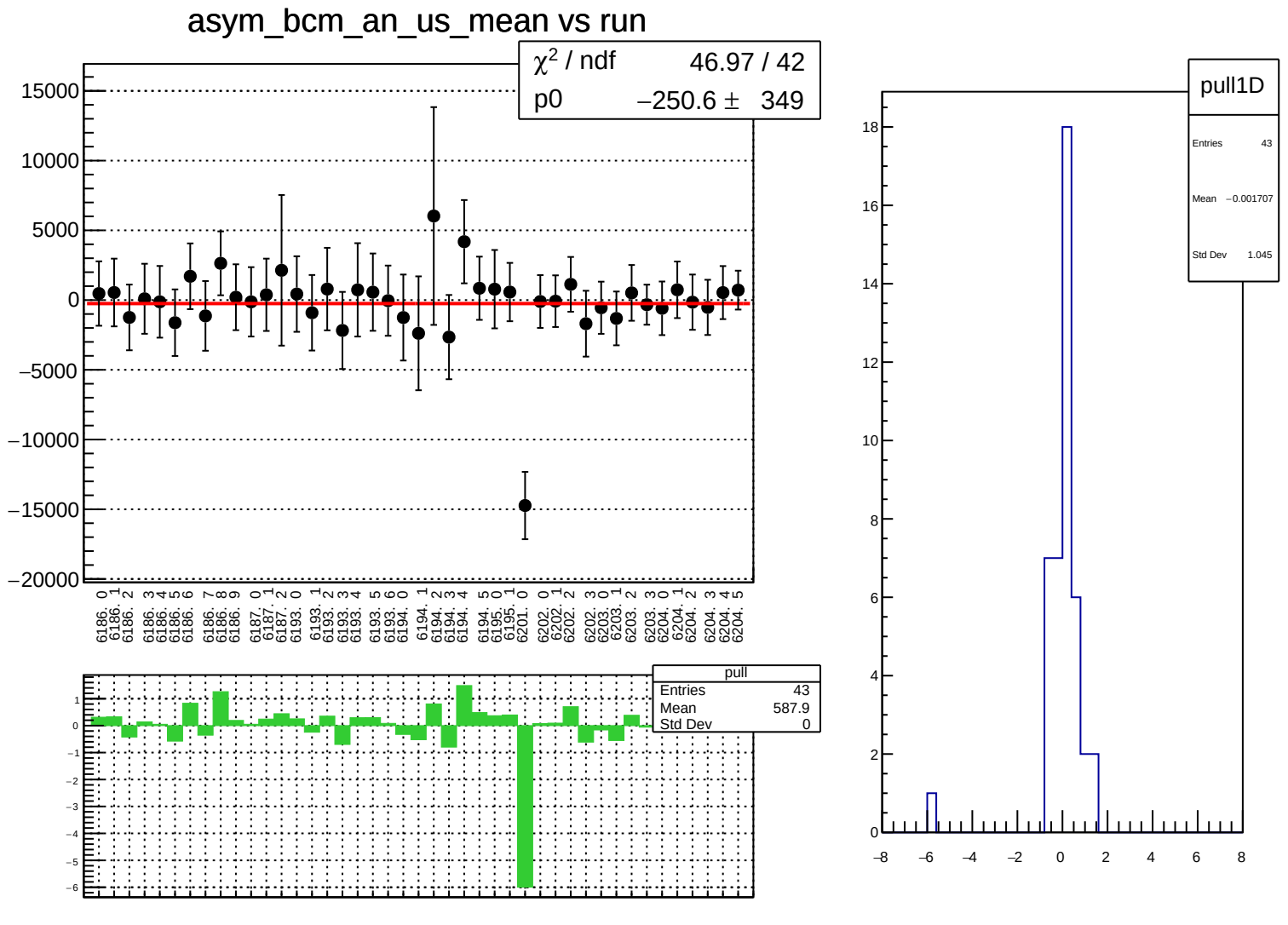

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 6.055e+04 / 36
p0 4.081e+04 ± 50.91
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6204. 4

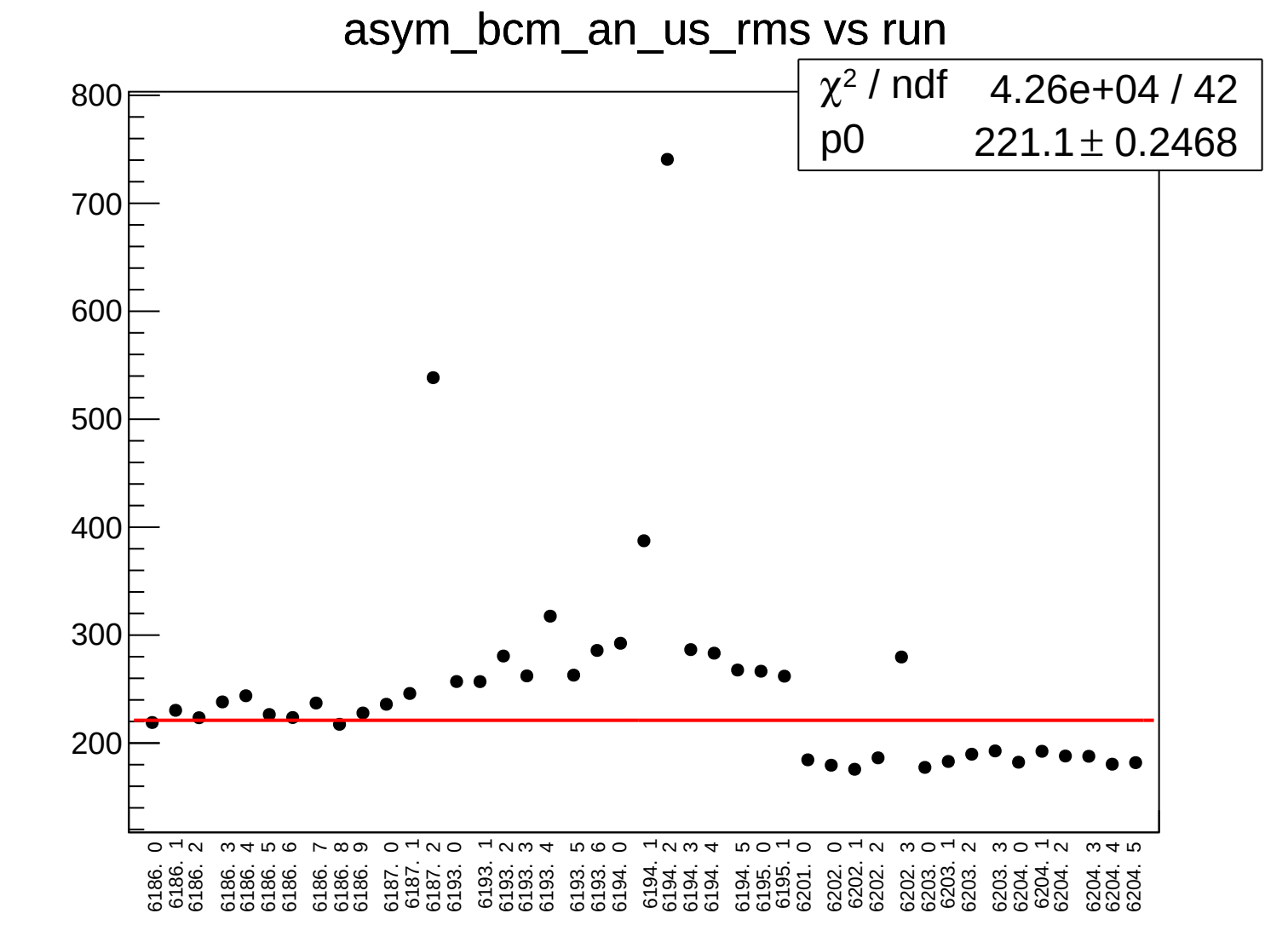

asym_bcm_an_ds_mean vs run
χ² / ndf 47.78 / 42
p0 −196.5 ± 349.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 303.2
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.002892
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

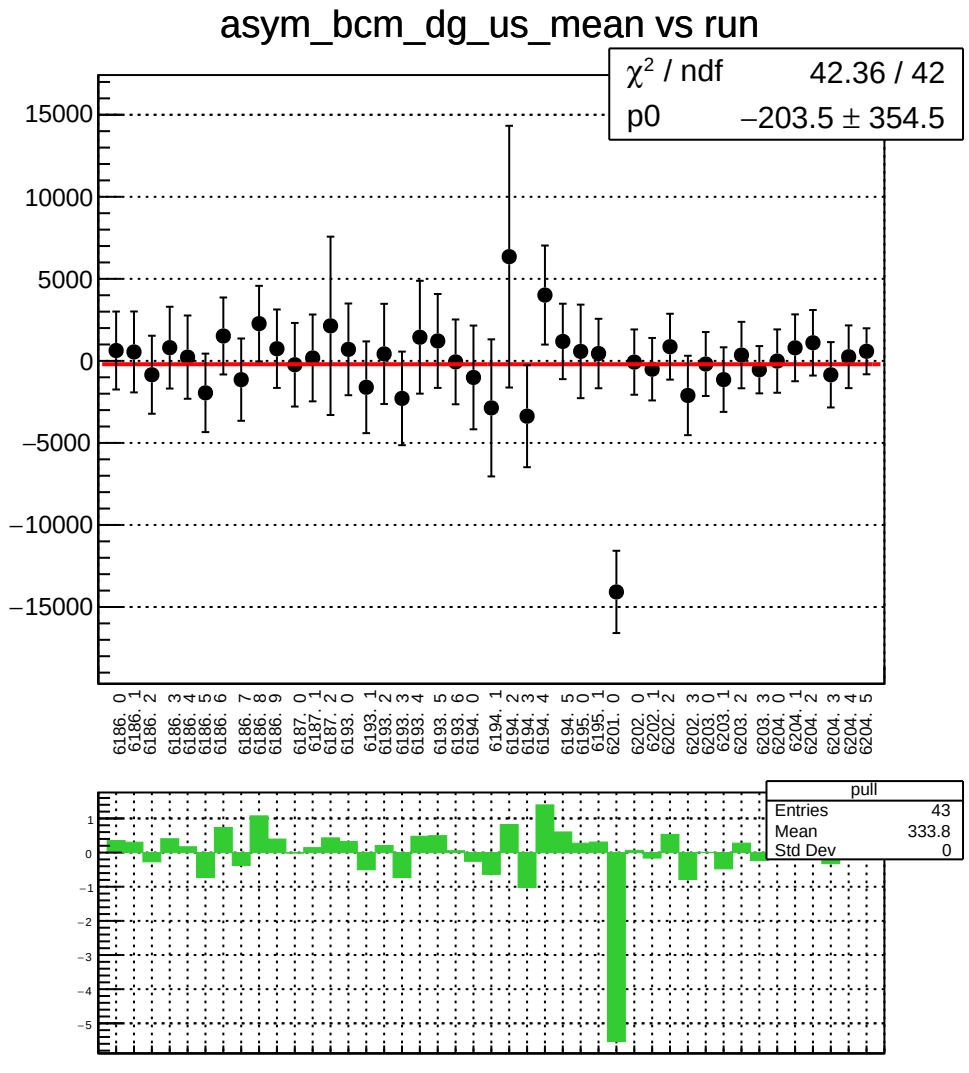

asym_bcm_an_ds_rms vs run
χ² / ndf 4.161e+04 / 42
p0 221.4 ± 0.2469
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

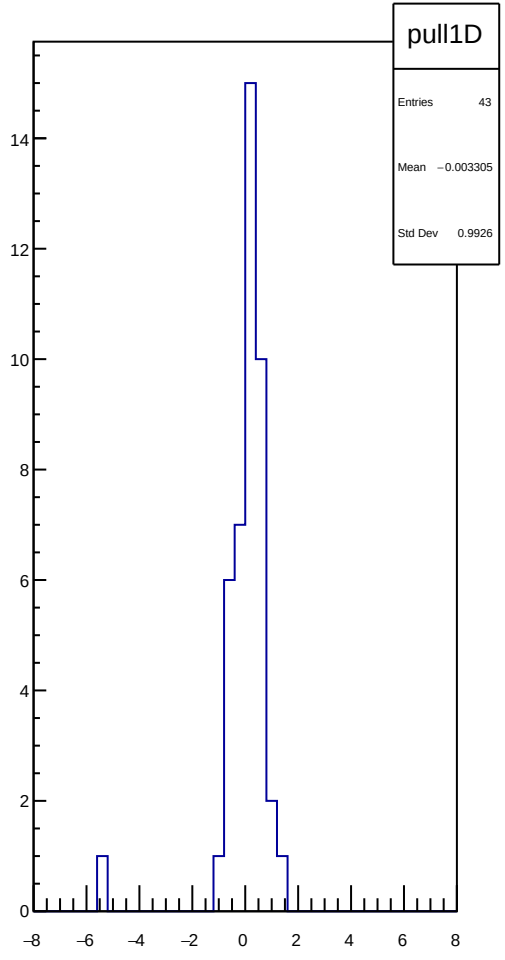

asym_bcm_an_ds3_mean vs run
χ² / ndf 48.02 / 42
p0 −217.1± 349.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1004
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.0009467
Std Dev 1.057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

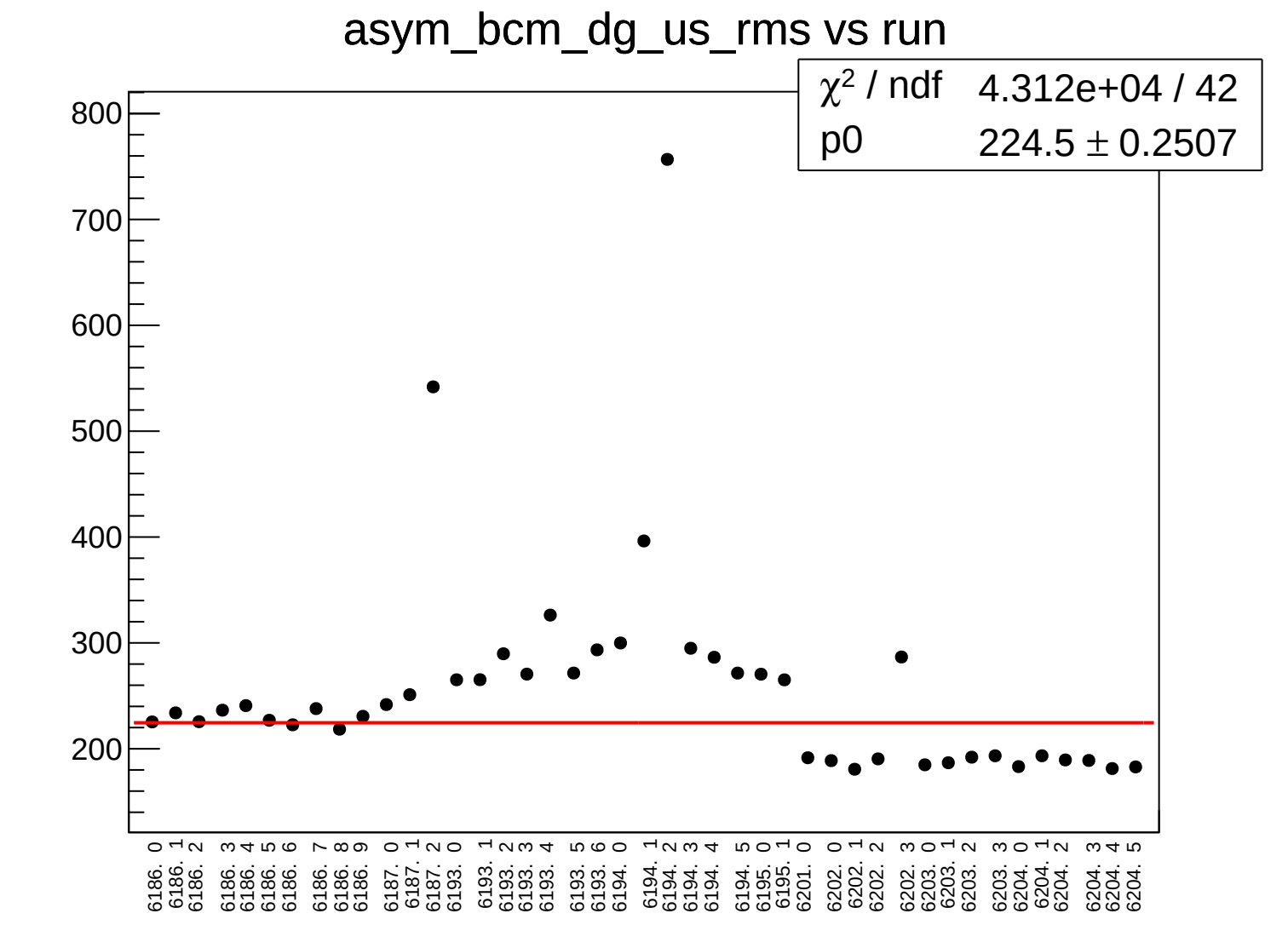

asym_bcm_an_ds3_rms vs run
χ² / ndf 4.197e+04 / 42
p0 221.6 ± 0.2472
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

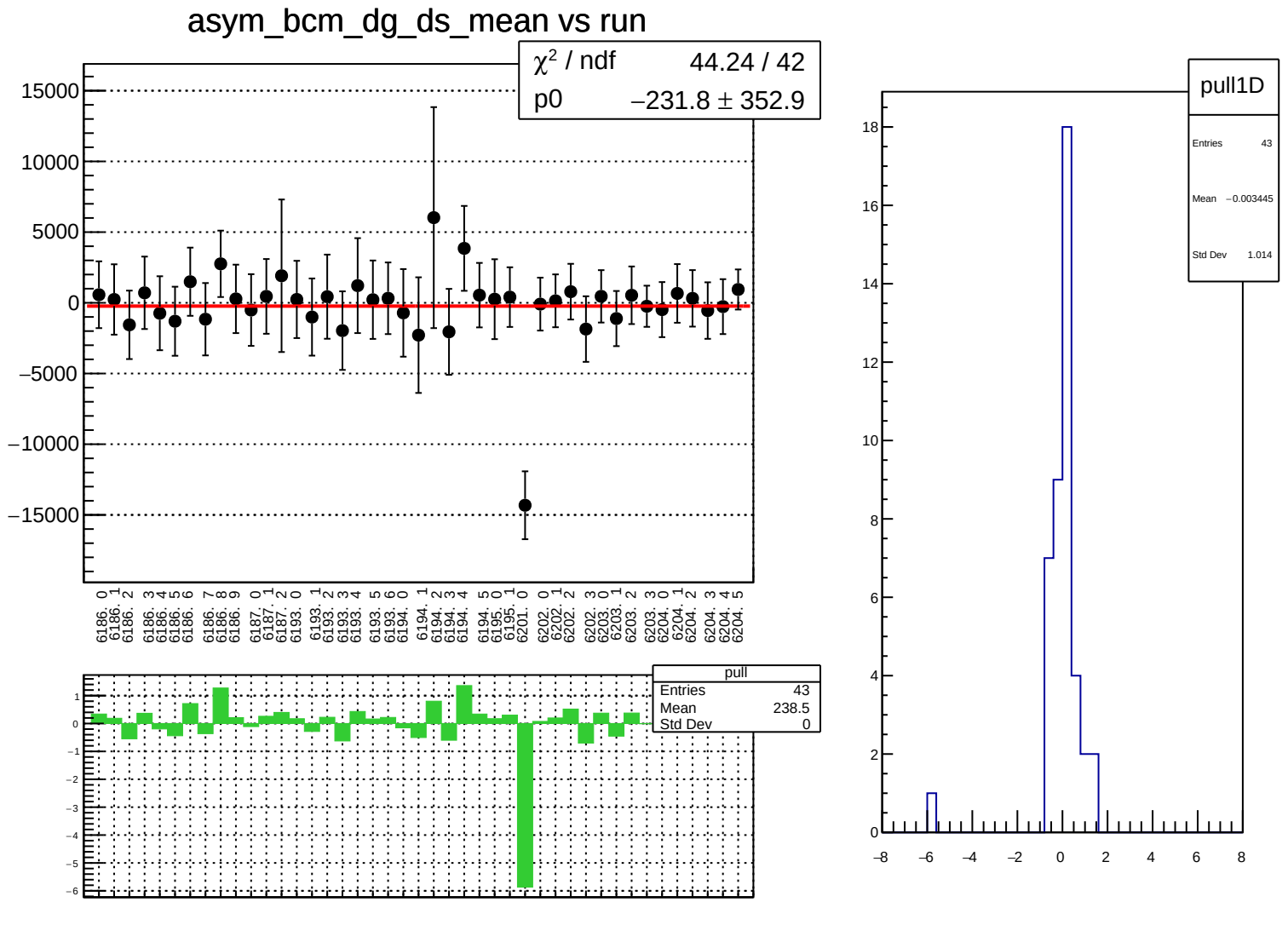

asym_bcm_an_us_mean vs run
χ² / ndf 46.97 / 42
p0 −250.6 ± 349
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 587.9
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.001707
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

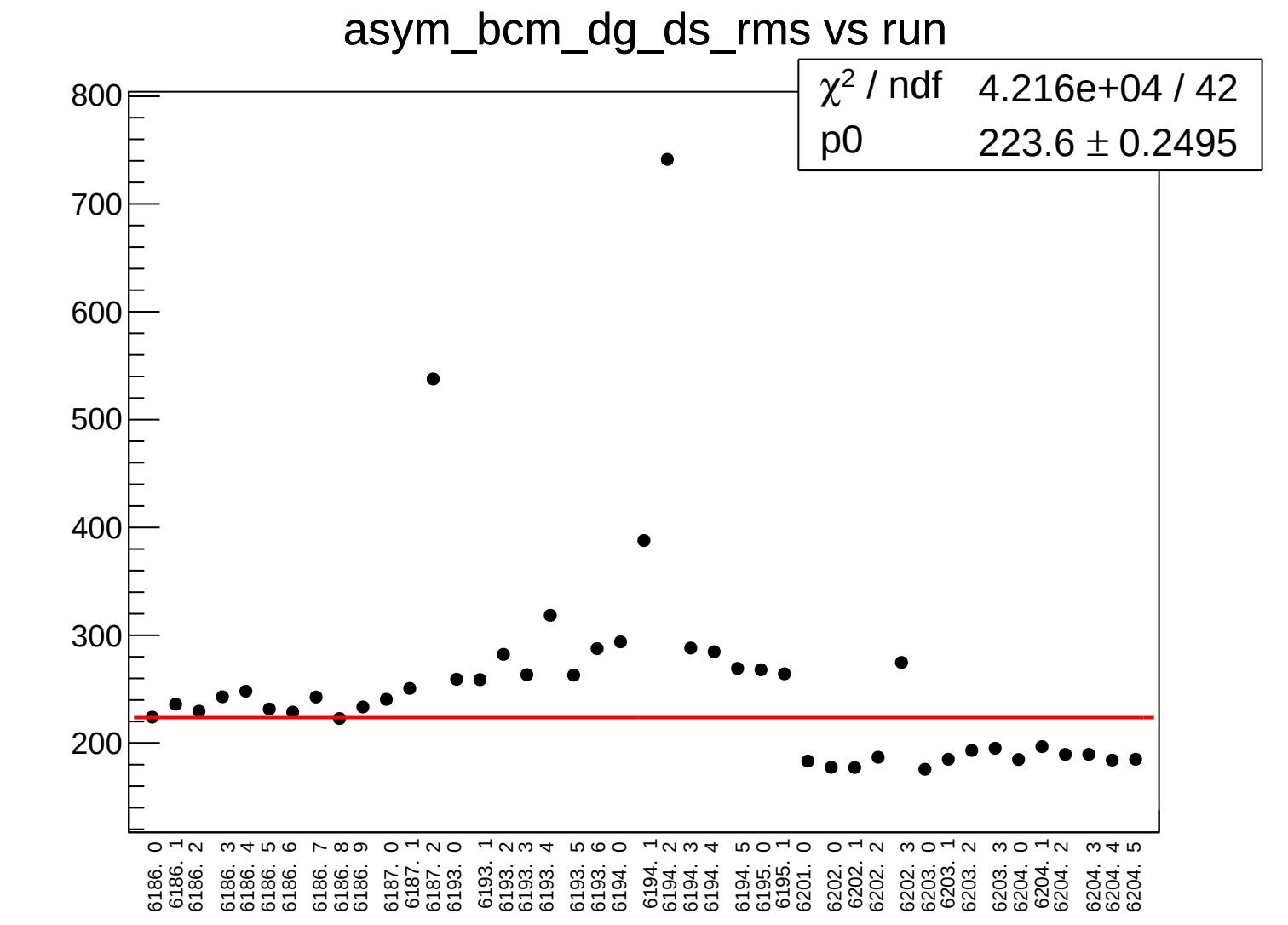

asym_bcm_an_us_rms vs run
χ² / ndf 4.26e+04 / 42
p0 221.1 ± 0.2468
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

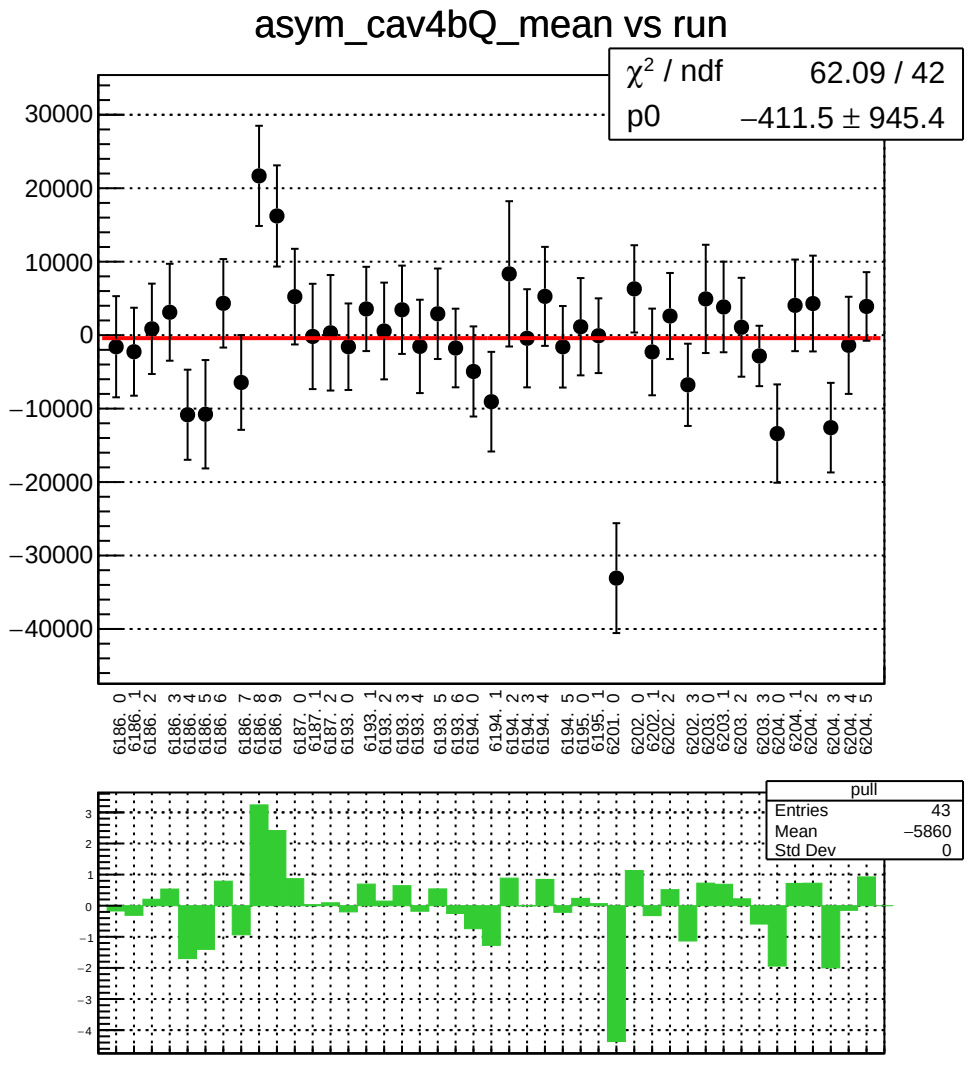

asym_bcm_dg_us_mean vs run
χ² / ndf 42.36 / 42
p0 −203.5 ± 354.5
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 333.8
Std Dev 0
1
0
−1
−2
−3
−4
−5

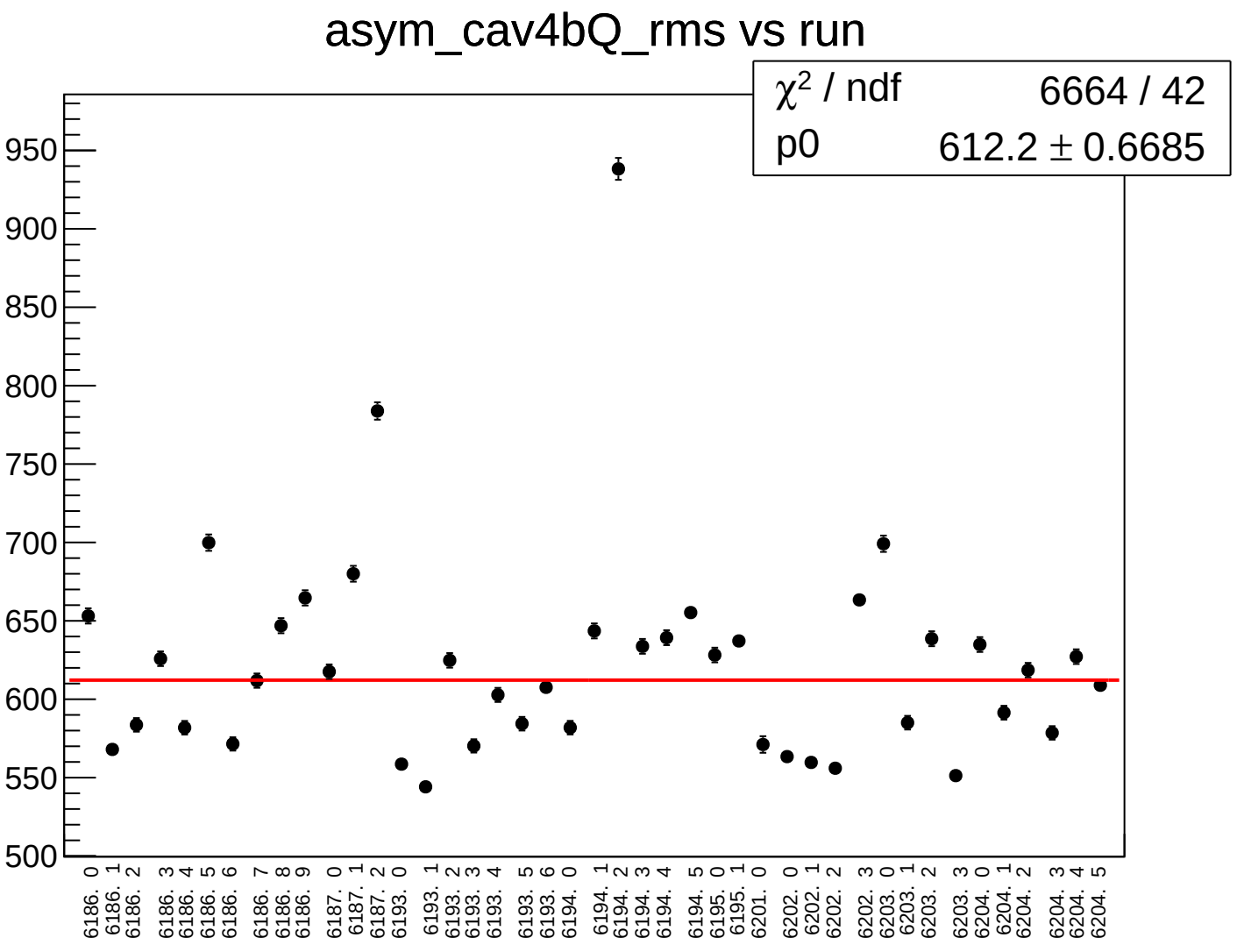

pull1D
Entries 43
Mean −0.003305
Std Dev 0.9926
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

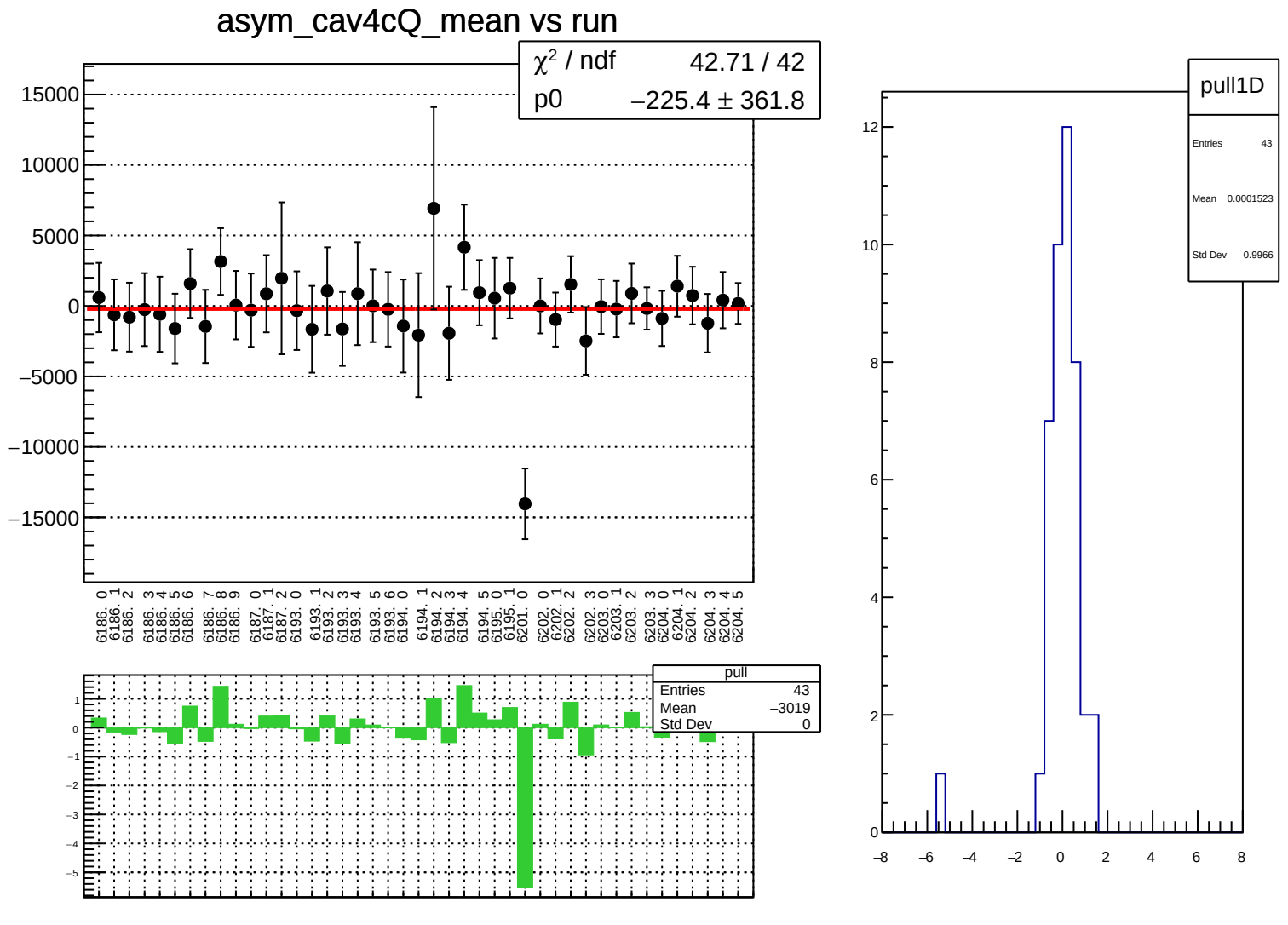

asym_bcm_dg_us_rms vs run
χ² / ndf 4.312e+04 / 42
p0 224.5 ± 0.2507
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

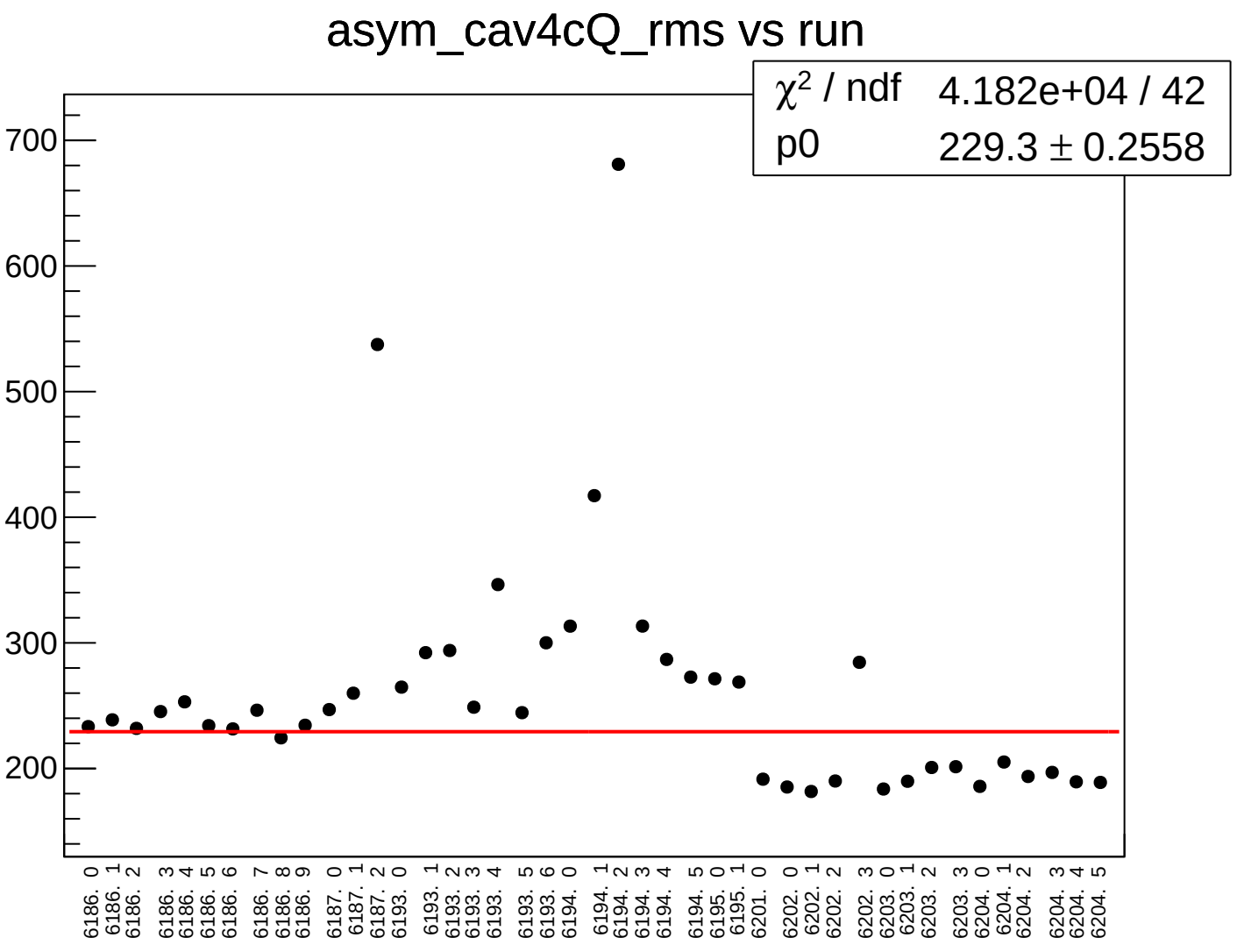

asym_bcm_dg_ds_mean vs run
χ² / ndf 44.24 / 42
p0 −231.8 ± 352.9
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 238.5
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.003445
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

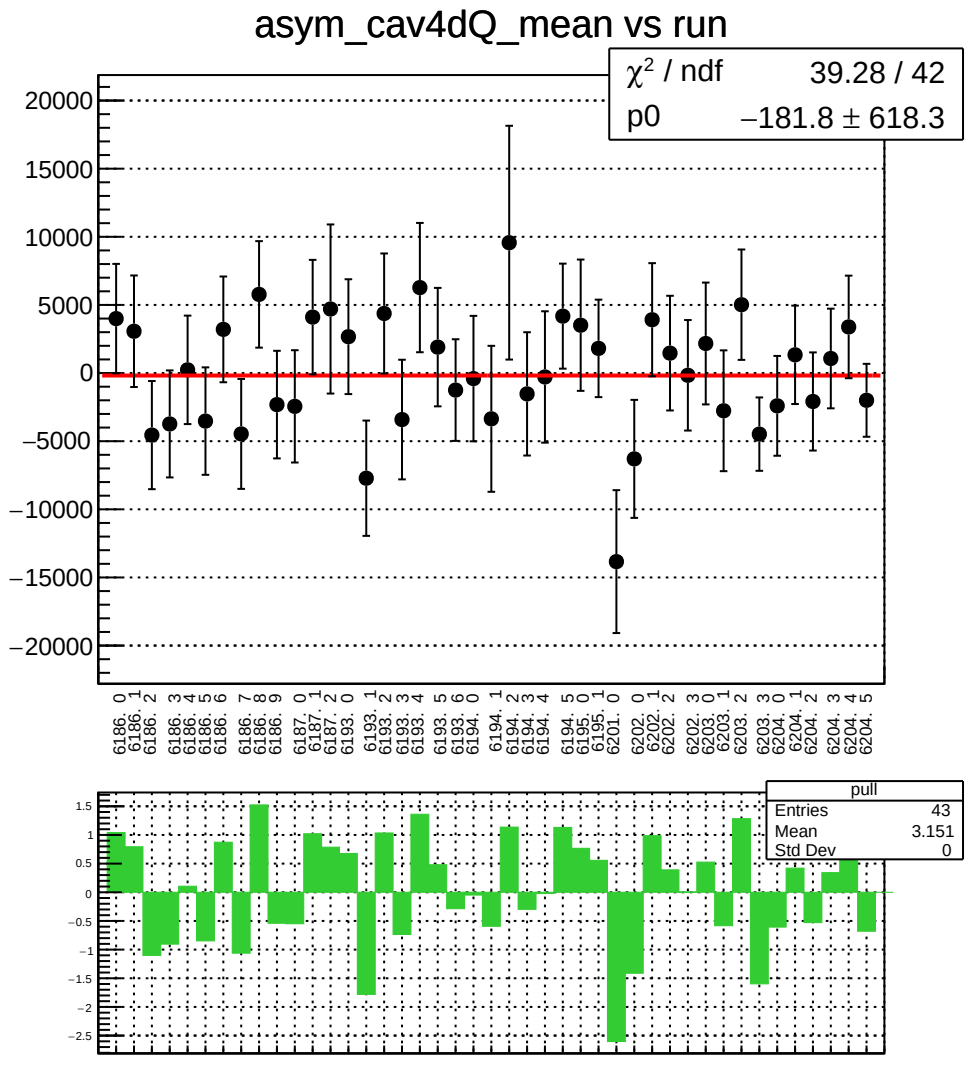

asym_bcm_dg_ds_rms vs run
χ² / ndf 4.216e+04 / 42
p0 223.6 ± 0.2495
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

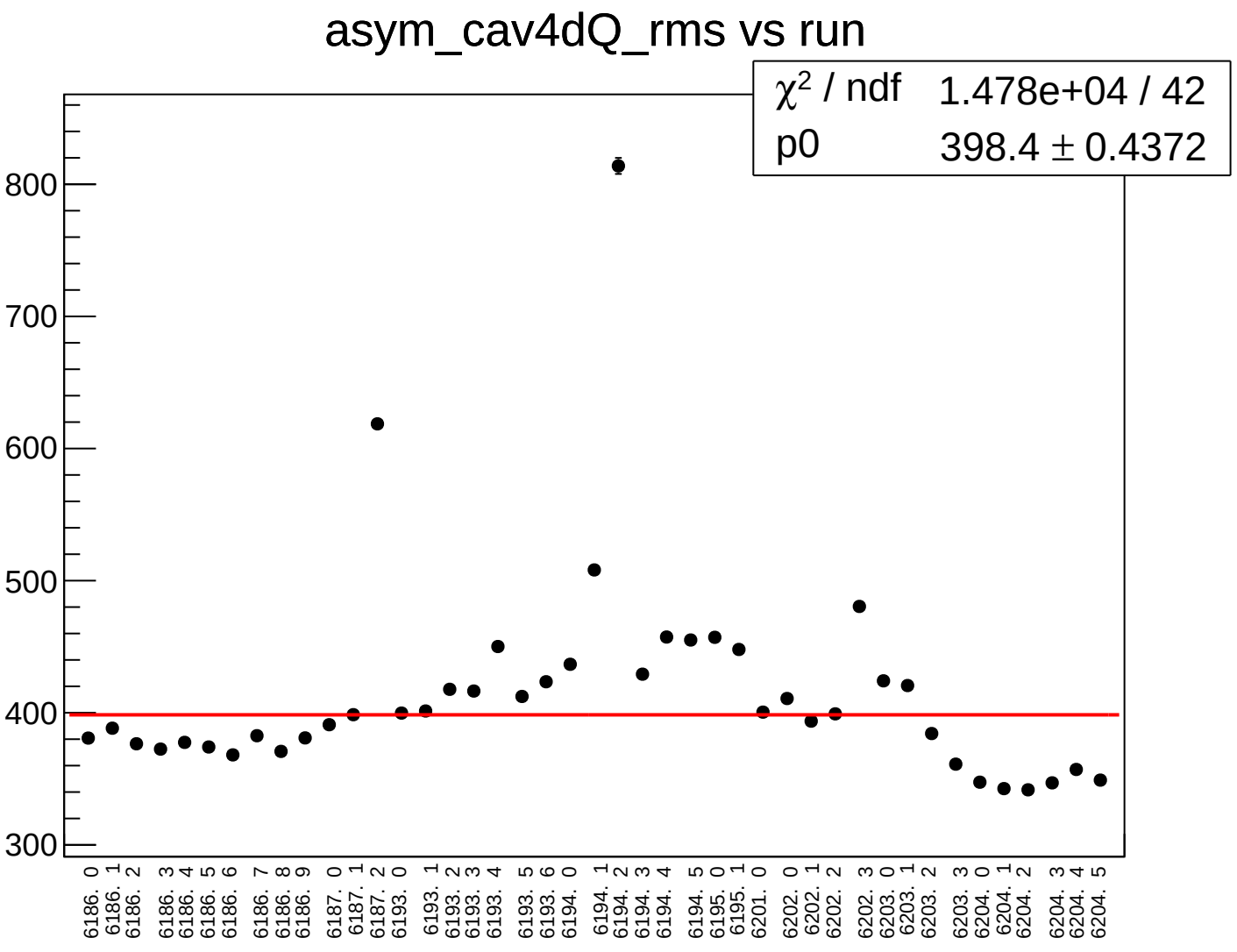

asym_cav4bQ_mean vs run
χ² / ndf 62.09 / 42
p0 −411.5 ± 945.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −5860
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean 0.0003285
Std Dev 1.202
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

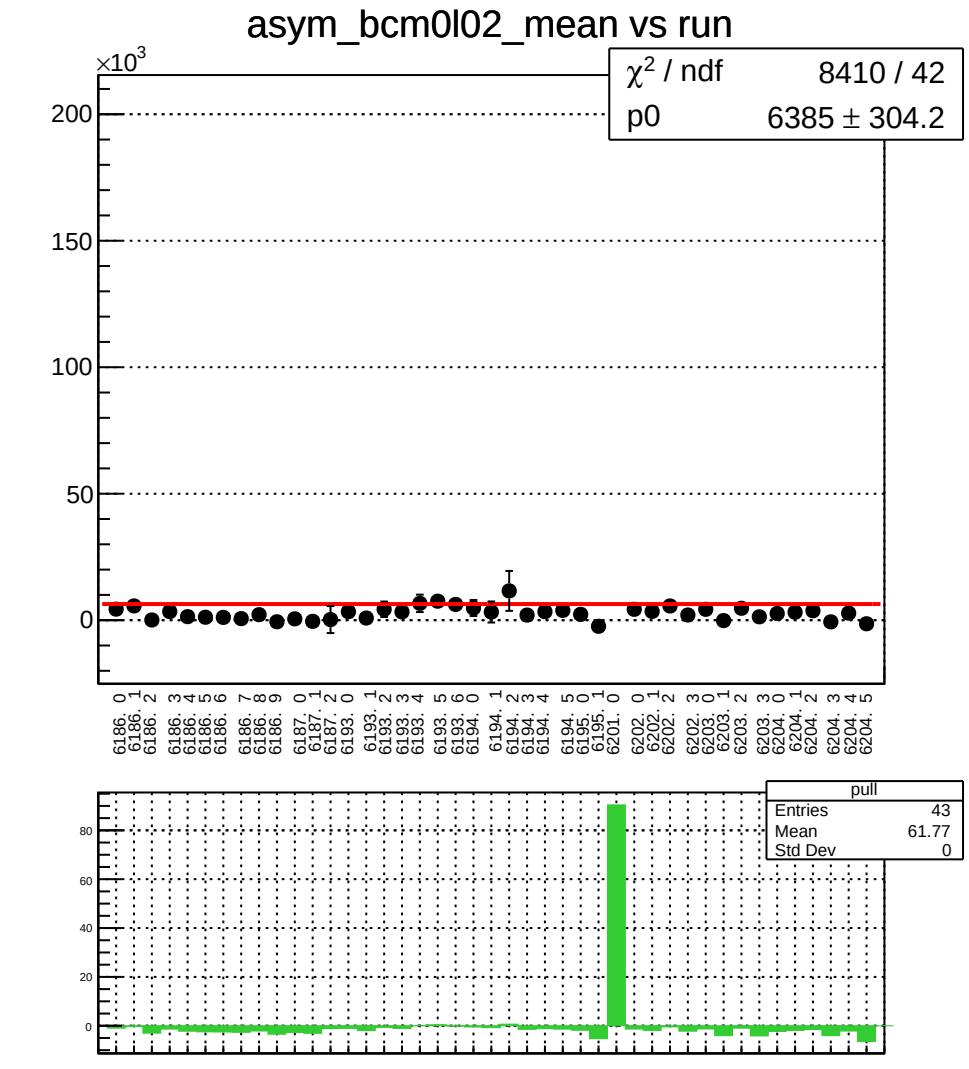

asym_cav4bQ_rms vs run
χ² / ndf 6664 / 42
p0 612.2 ± 0.6685
950
900
850
800
750
700
650
600
550
500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

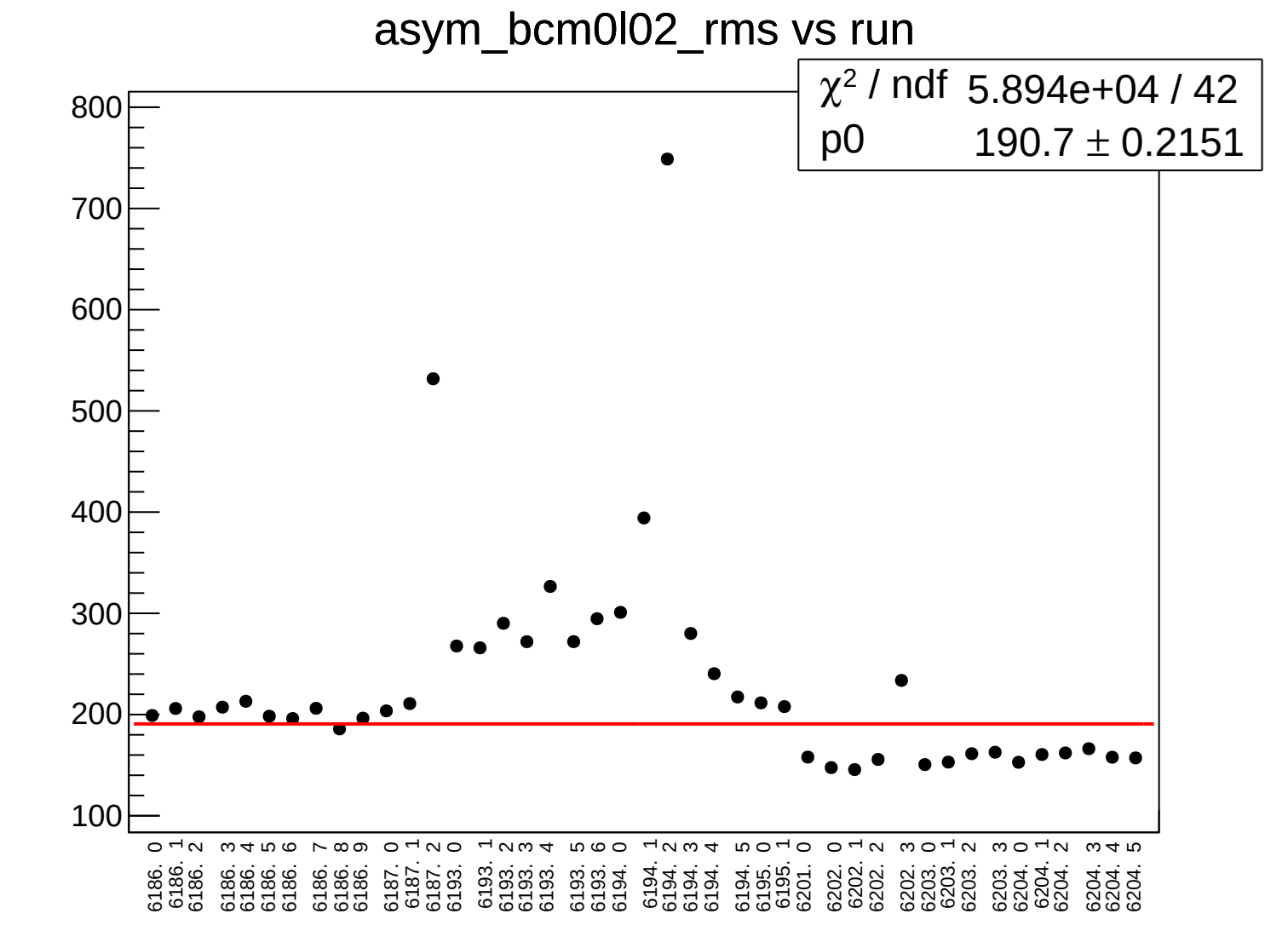

asym_cav4cQ_mean vs run
χ² / ndf 42.71 / 42
p0 −225.4 ± 361.8
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3019
Std Dev 0
1
0
−1
−2
−3
−4
−5
pull1D
Entries 43
Mean 0.0001523
Std Dev 0.9966
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

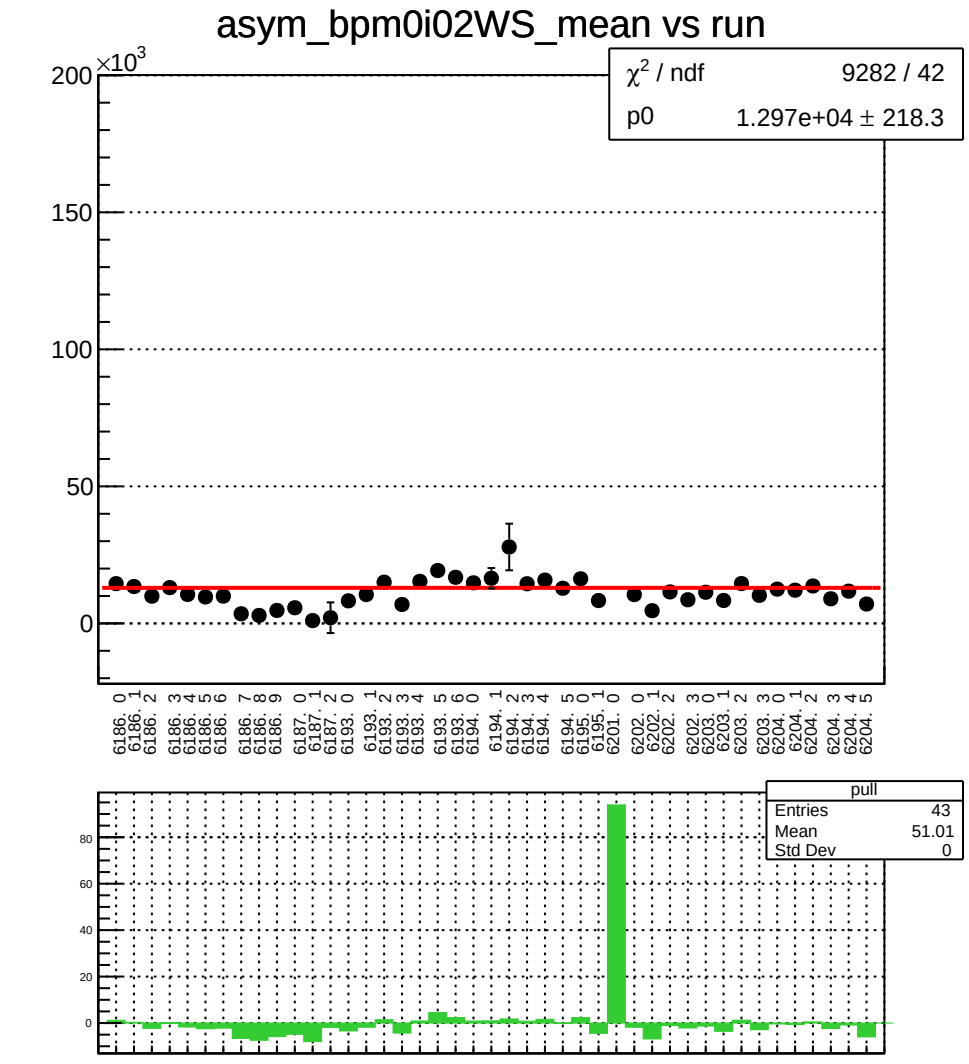

asym_cav4cQ_rms vs run
χ^2 / ndf 4.182e+04 / 42
p0 229.3 ± 0.2558
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

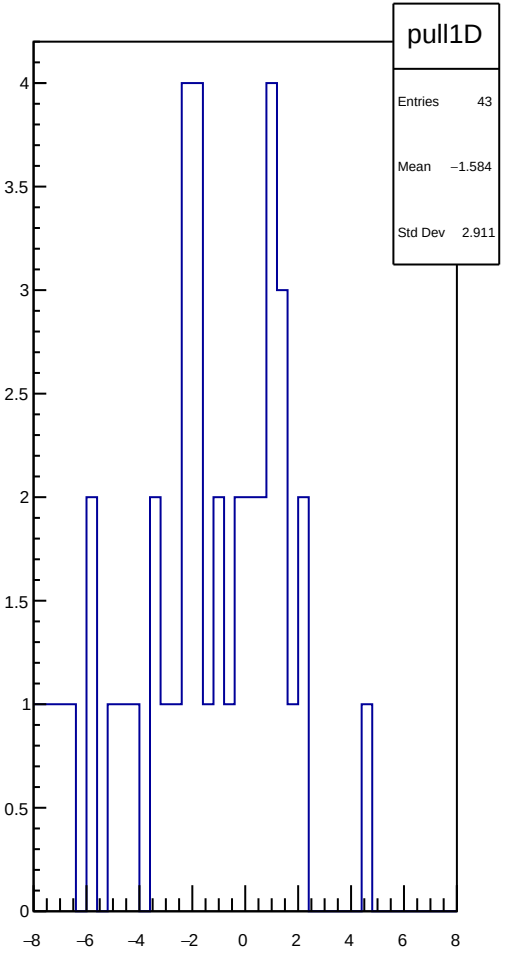

asym_cav4dQ_mean vs run
χ² / ndf 39.28 / 42
p0 −181.8 ± 618.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 3.151
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03286
Std Dev 0.9552
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

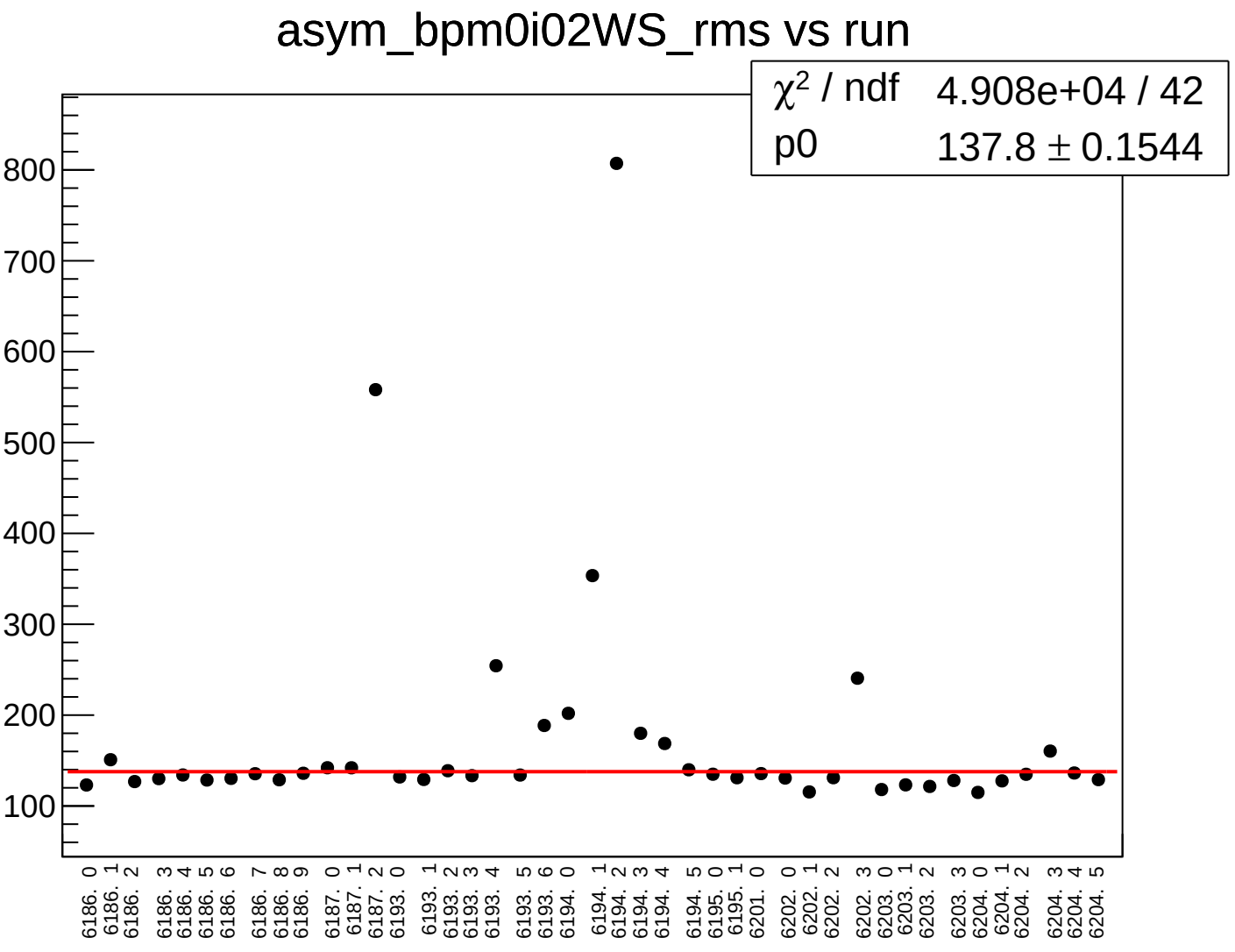

asym_cav4dQ_rms vs run
χ² / ndf 1.478e+04 / 42
p0 398.4 ± 0.4372
800
700
600
500
400
300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

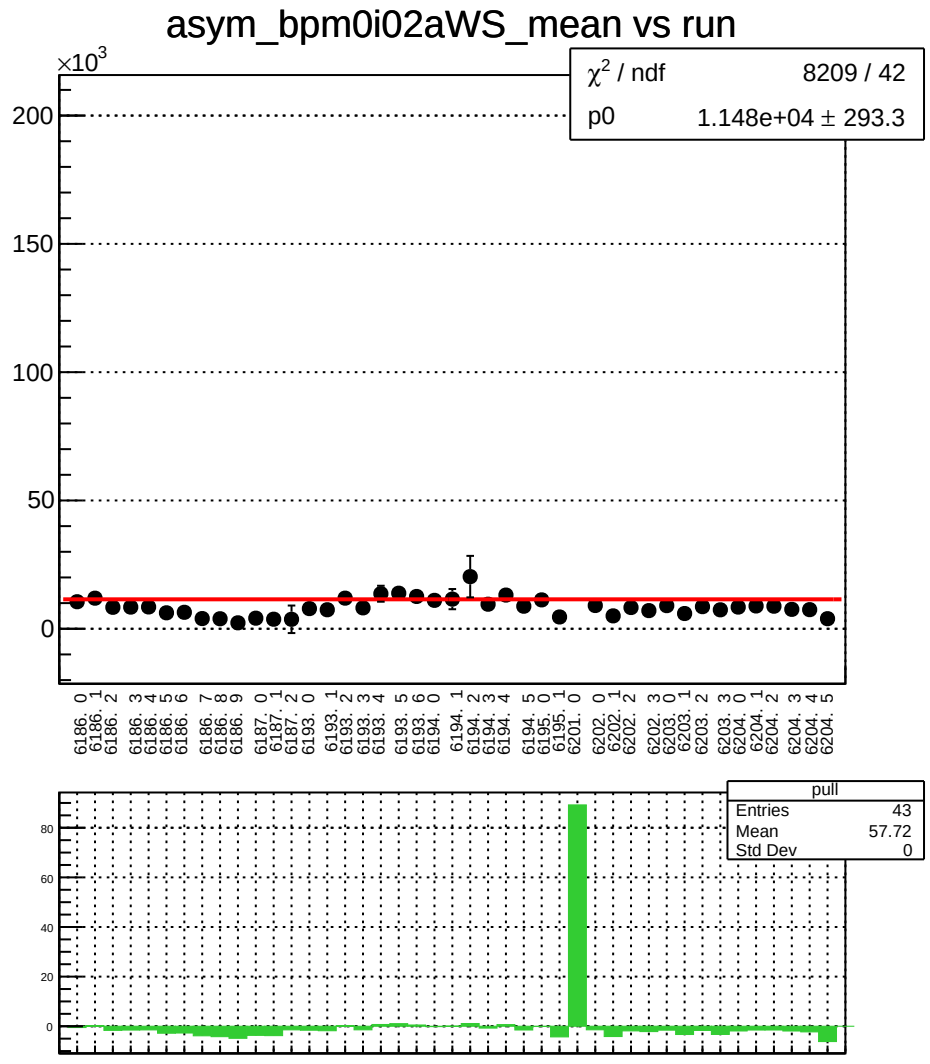

asym_bcm0l02_mean vs run
×10^3
χ^2 / ndf 8410 / 42
p0 6385 ± 304.2
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 61.77
Std Dev 0
80
60
40
20
0
pull1D
Entries 43
Mean −1.881
Std Dev 1.449
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

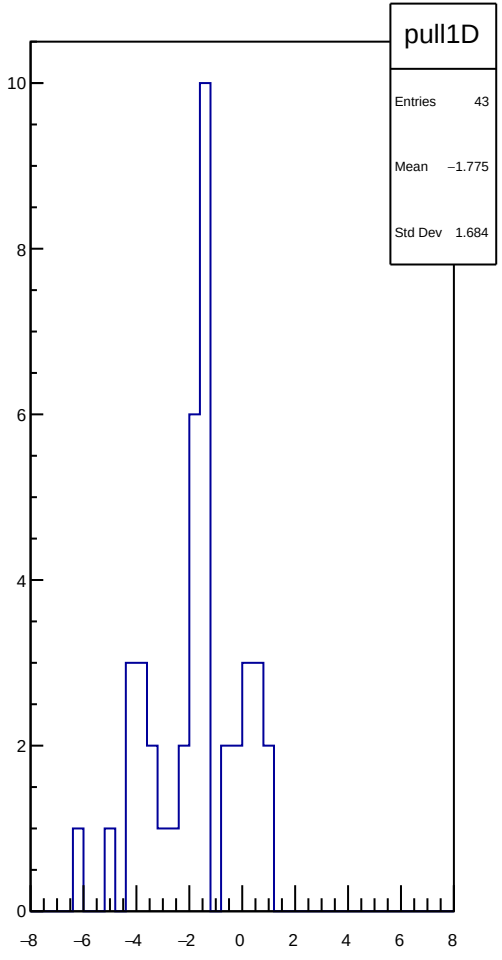

asym_bcm0l02_rms vs run
χ² / ndf 5.894e+04 / 42
p0 190.7 ± 0.2151
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

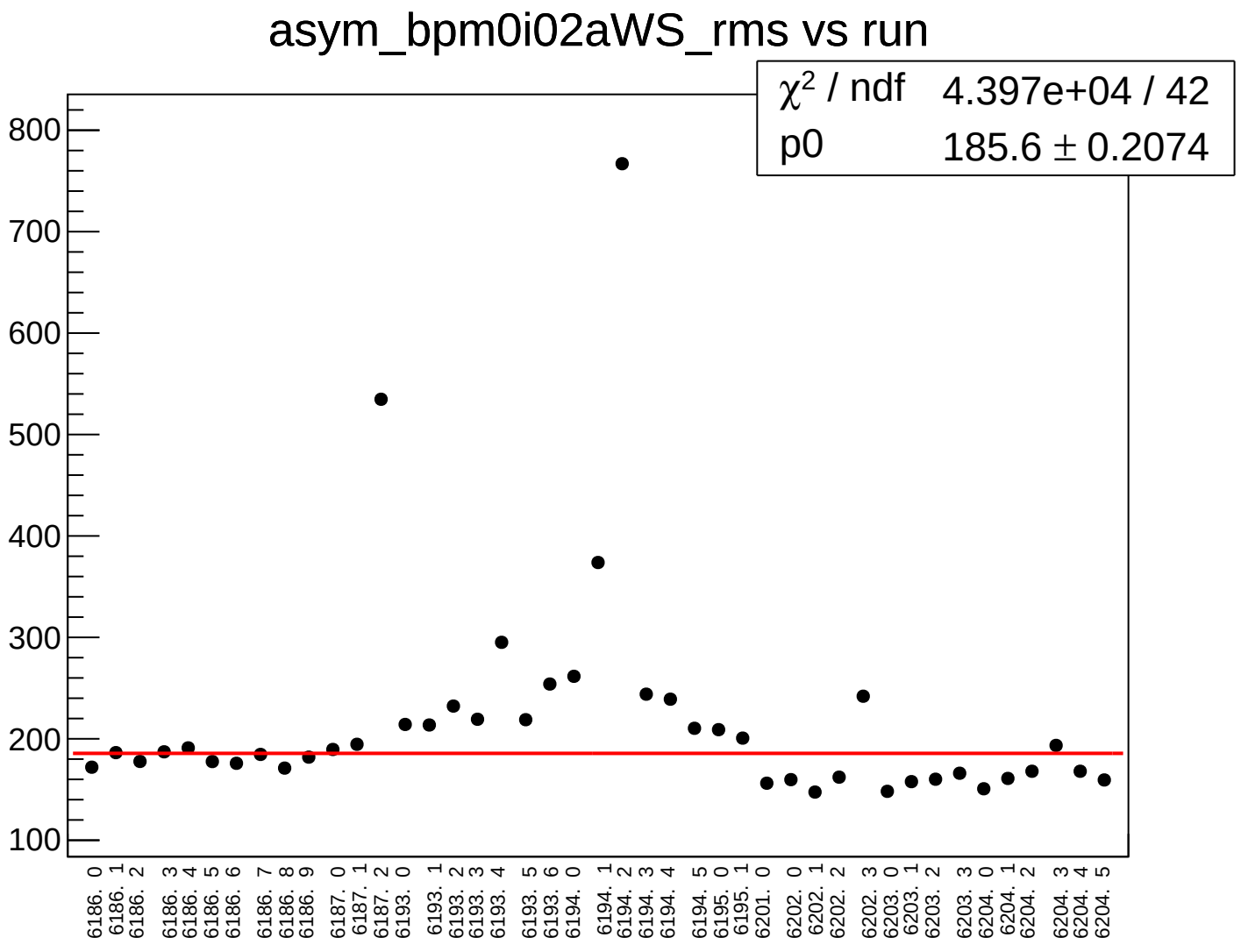

asym_bpm0i02WS_mean vs run
χ² / ndf 9282 / 42
p0 1.297e+04 ± 218.3
×10³
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 51.01
Std Dev 0
80
60
40
20
0

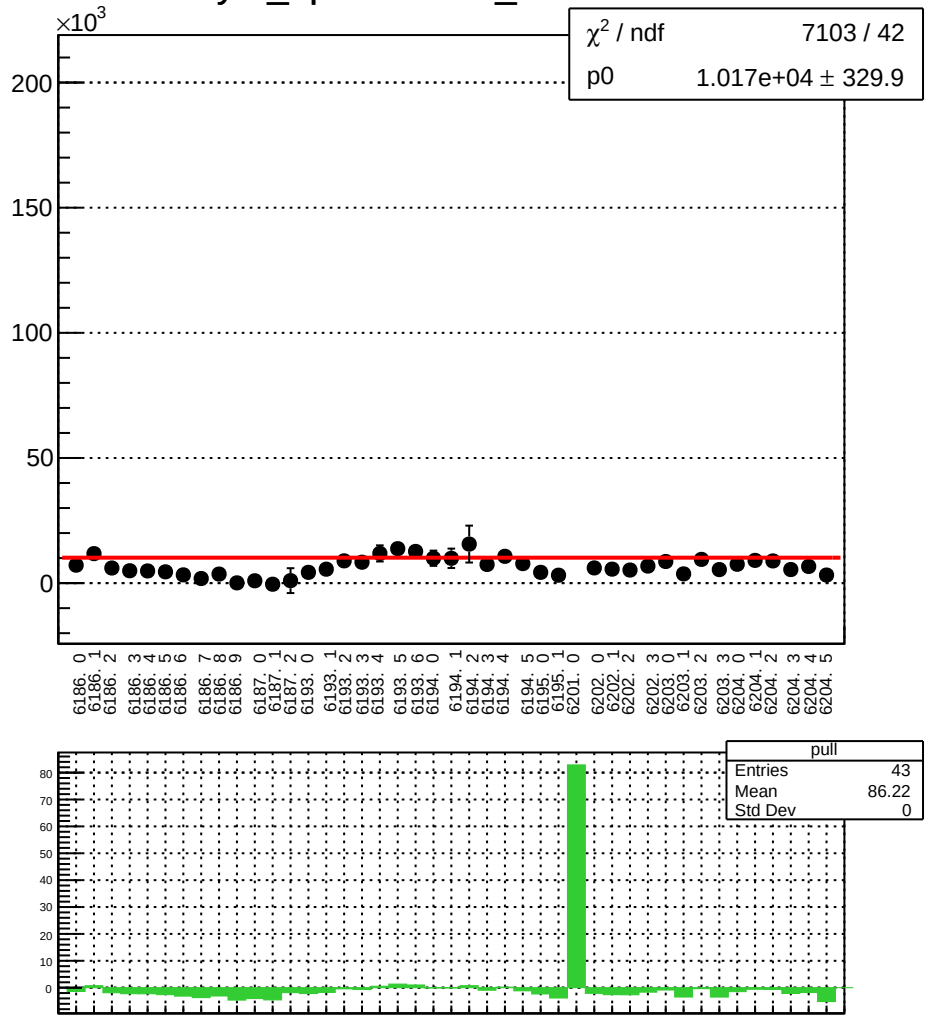

pull1D
Entries 43
Mean −1.584
Std Dev 2.911
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

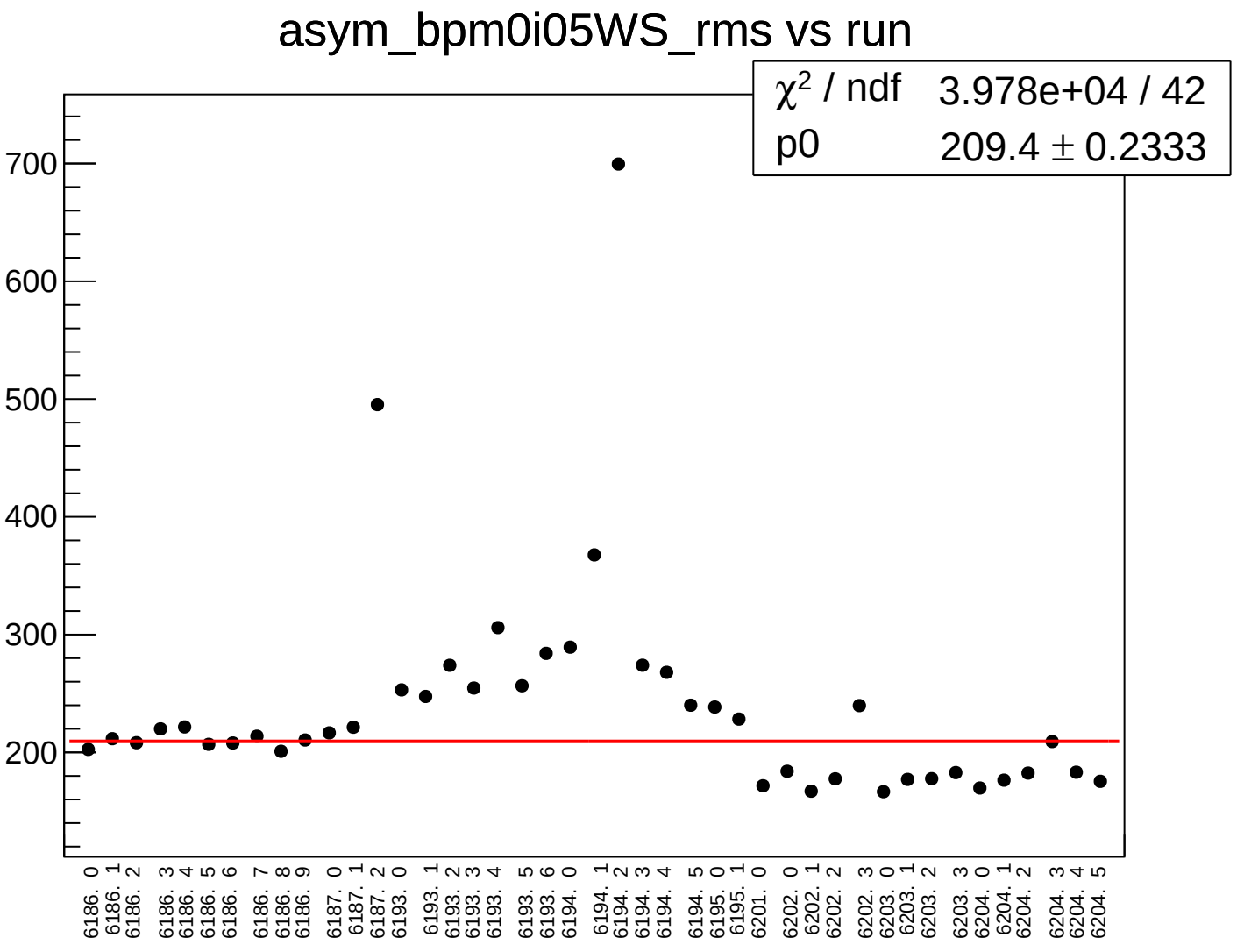

asym_bpm0i02WS_rms vs run
χ² / ndf 4.908e+04 / 42
p0 137.8 ± 0.1544
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

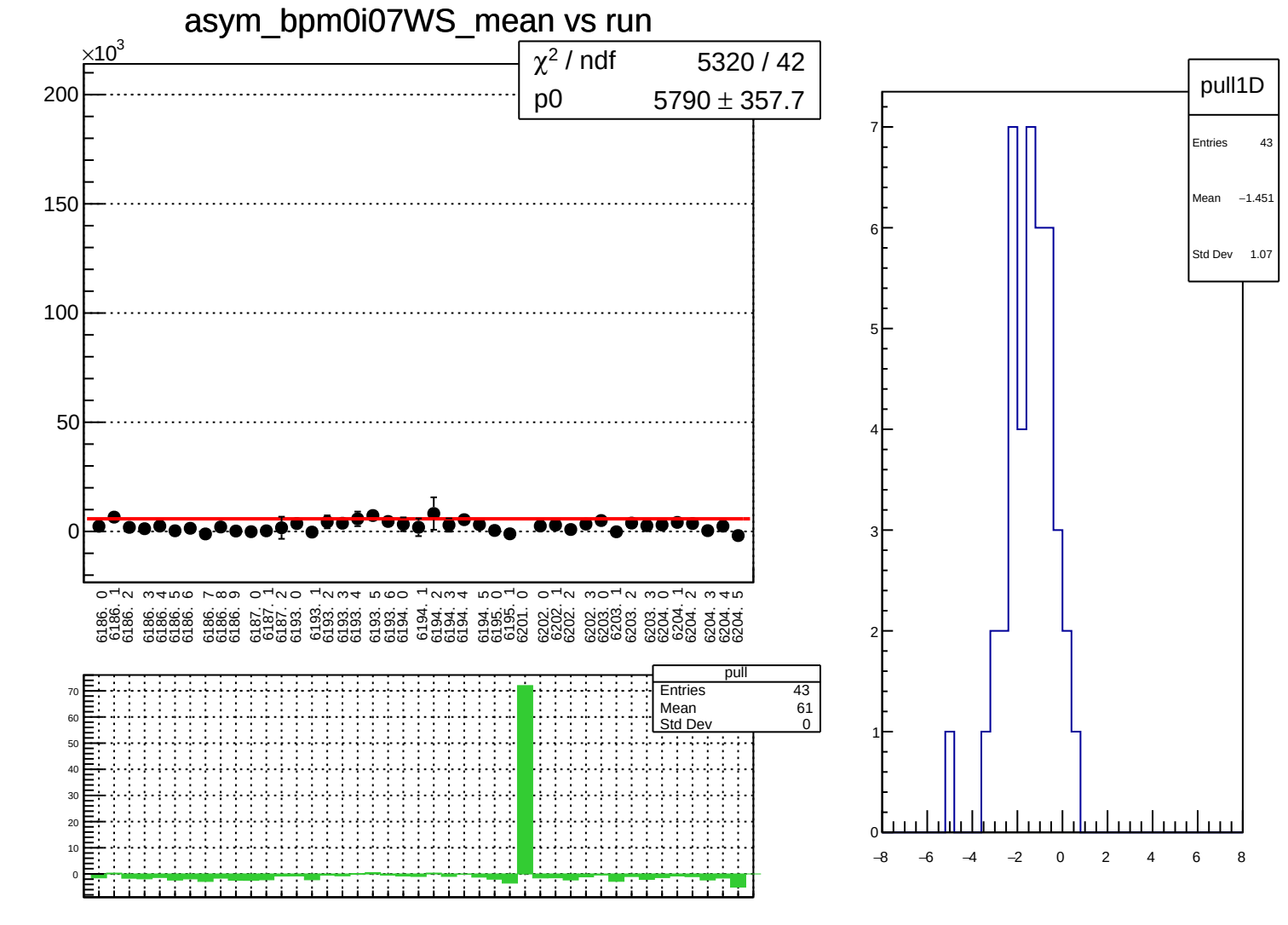

asym_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 8209 / 42
p0 1.148e+04 ± 293.3
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 57.72
Std Dev 0
80
60
40
20
0

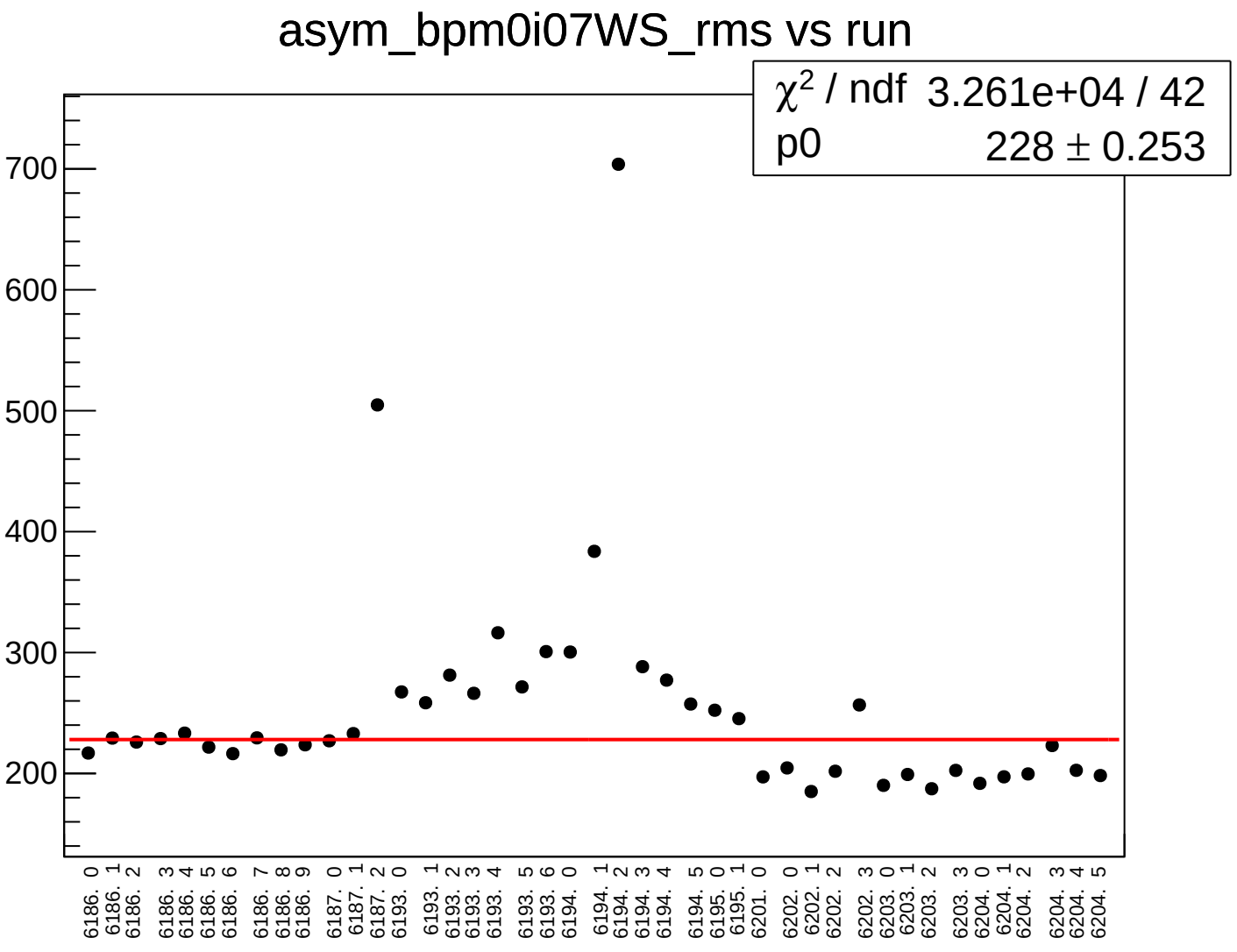

pull1D
Entries 43
Mean −1.775
Std Dev 1.684
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

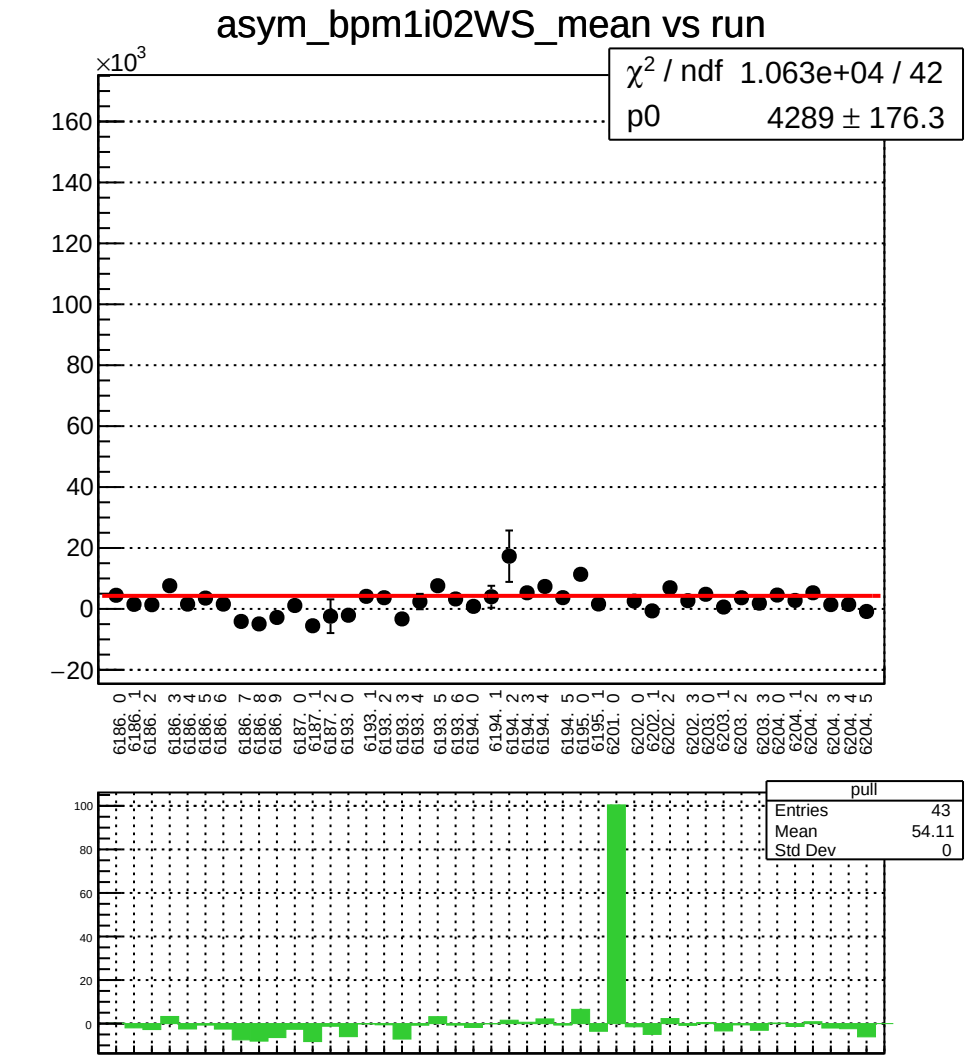

asym_bpm0i02aWS_rms vs run
χ² / ndf 4.397e+04 / 42
p0 185.6 ± 0.2074
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

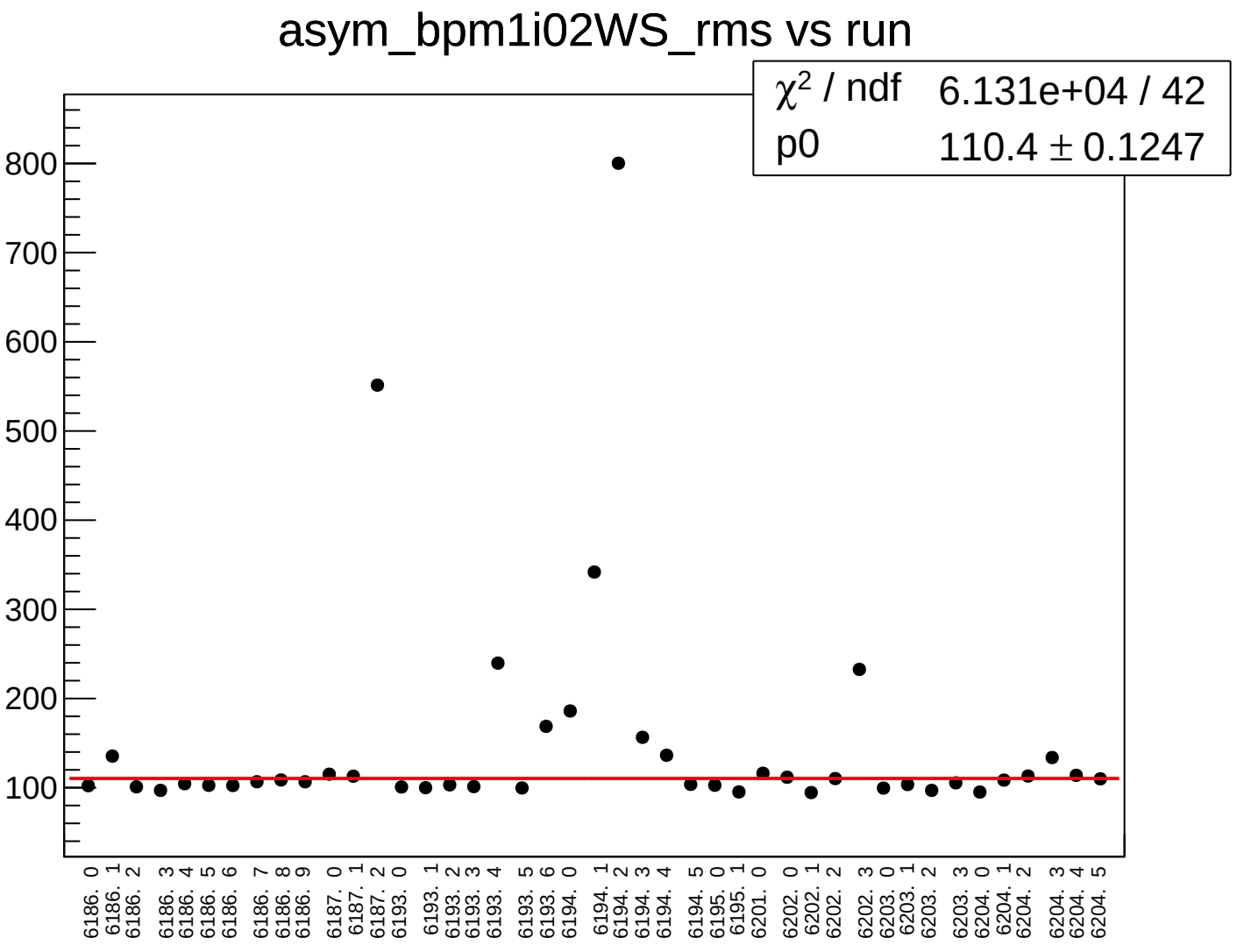

asym_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 7103 / 42
p0 1.017e+04 ± 329.9
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 86.22
Std Dev 0
80
70
60
50
40
30
20
10
0
pull1D
Entries 43
Mean −1.748
Std Dev 1.601
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

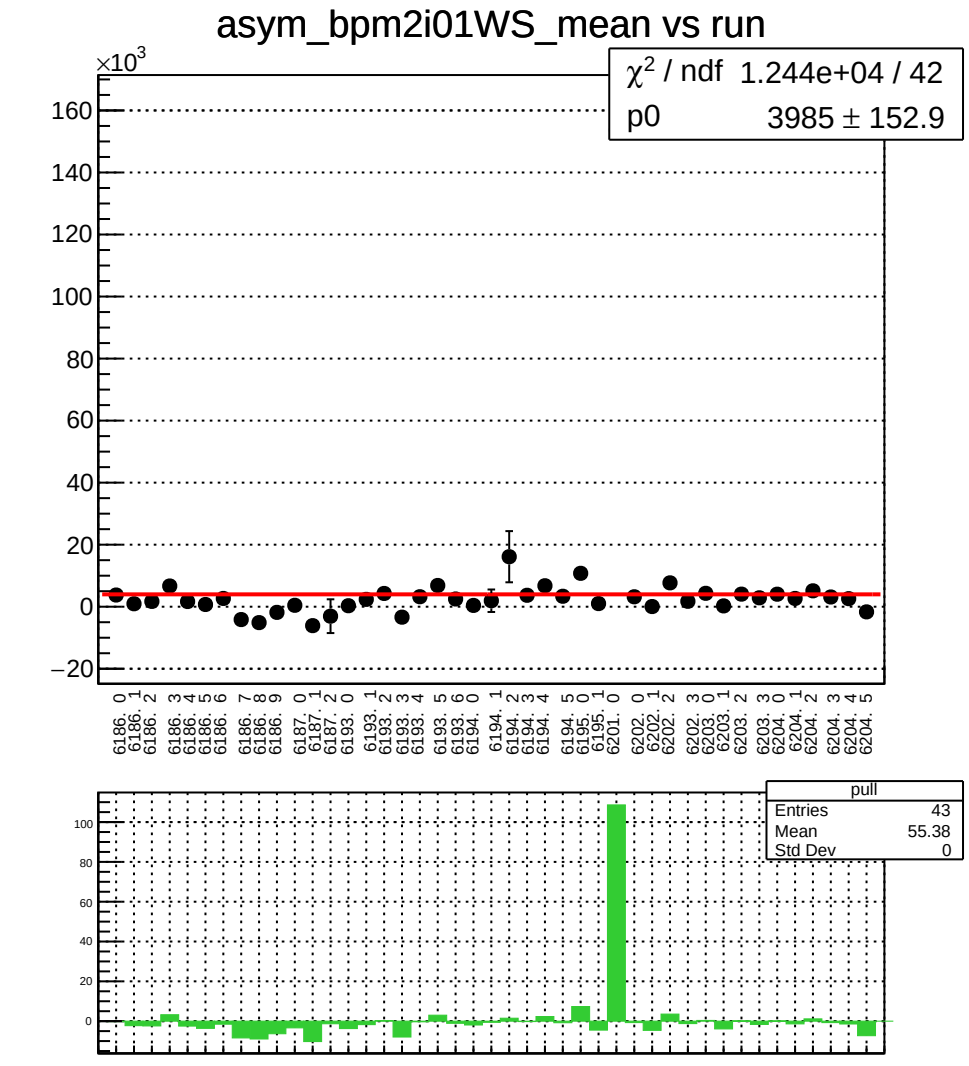

asym_bpm0i05WS_rms vs run
χ² / ndf 3.978e+04 / 42
p0 209.4 ± 0.2333
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

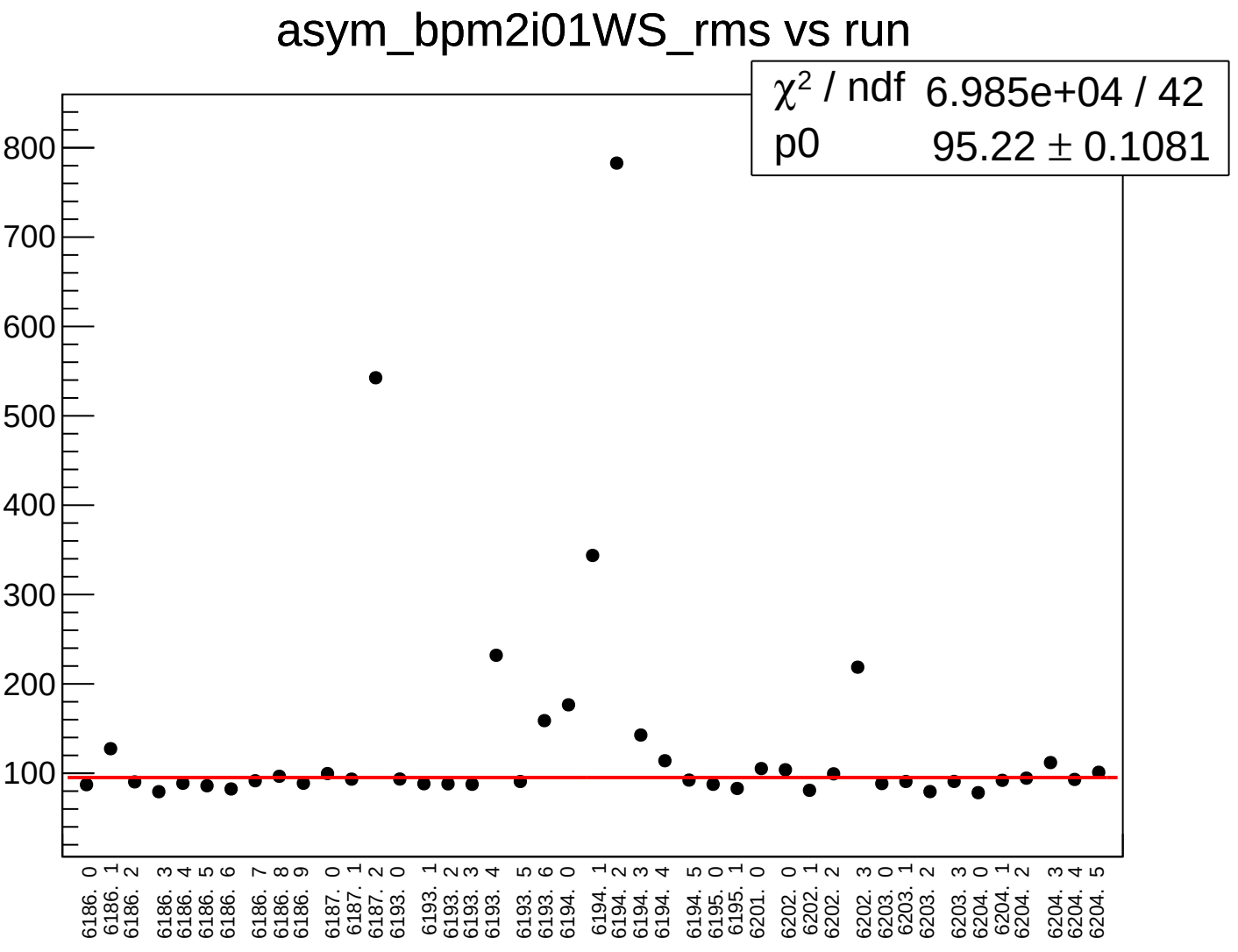

asym_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 5320 / 42
p0 5790 ± 357.7
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 61
Std Dev 0
70
60
50
40
30
20
10
0
pull1D
Entries 43
Mean −1.451
Std Dev 1.07
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

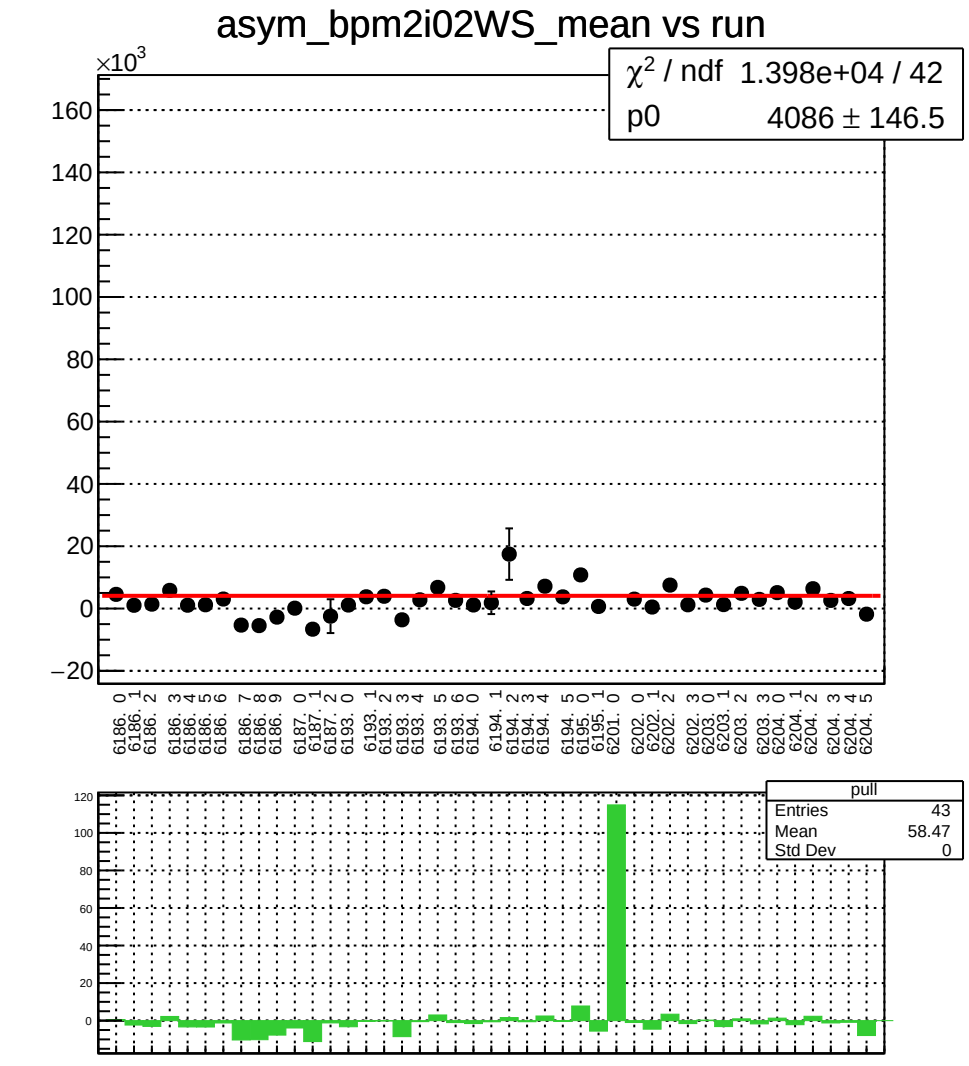

asym_bpm0i07WS_rms vs run
χ² / ndf 3.261e+04 / 42
p0 228 ± 0.253
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

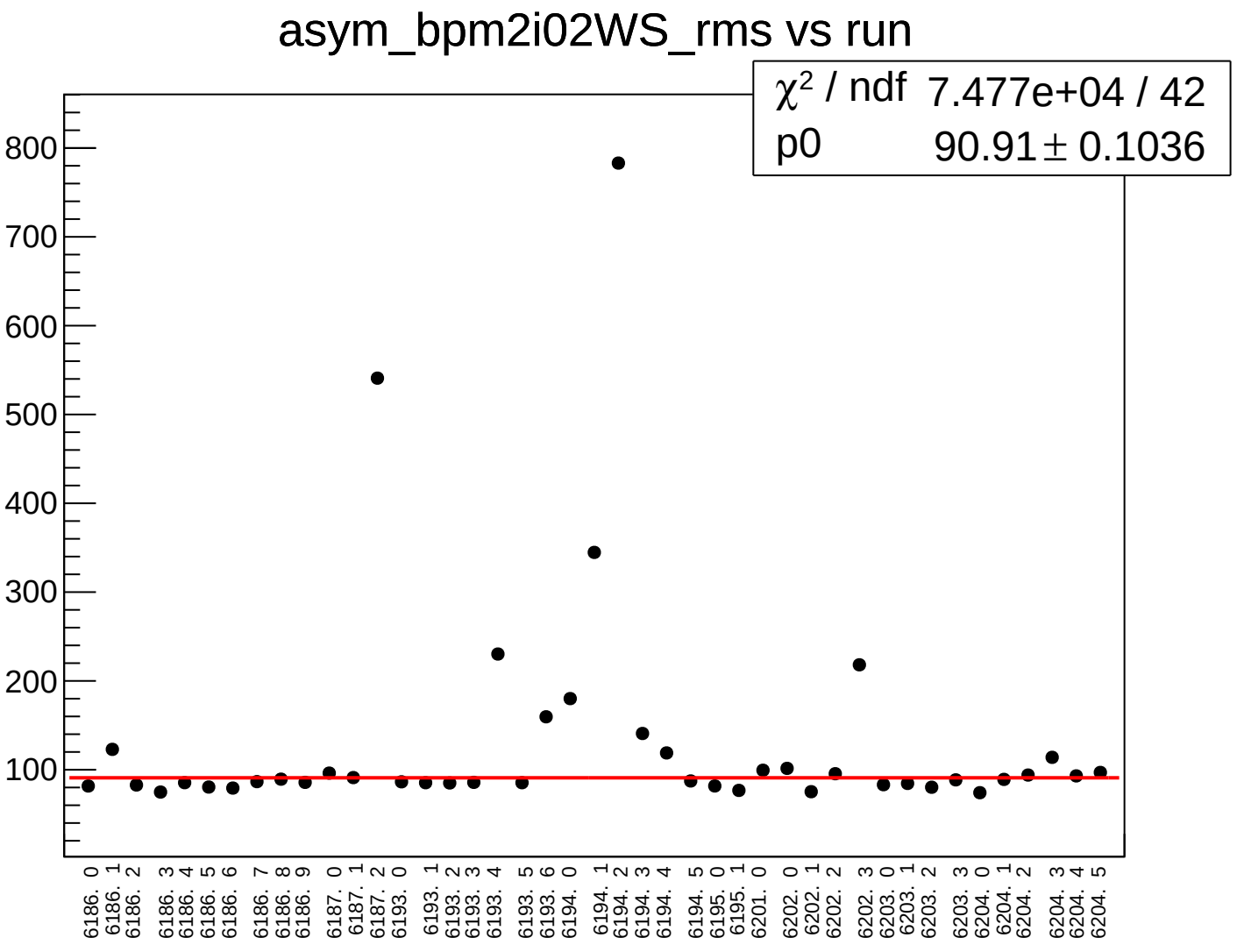

asym_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 1.063e+04 / 42
p0 4289 ± 176.3
160
140
120
100
80
60
40
20
0
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 54.11
Std Dev 0
100
80
60
40
20
0
pull1D
Entries 43
Mean −1.35
Std Dev 2.887
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

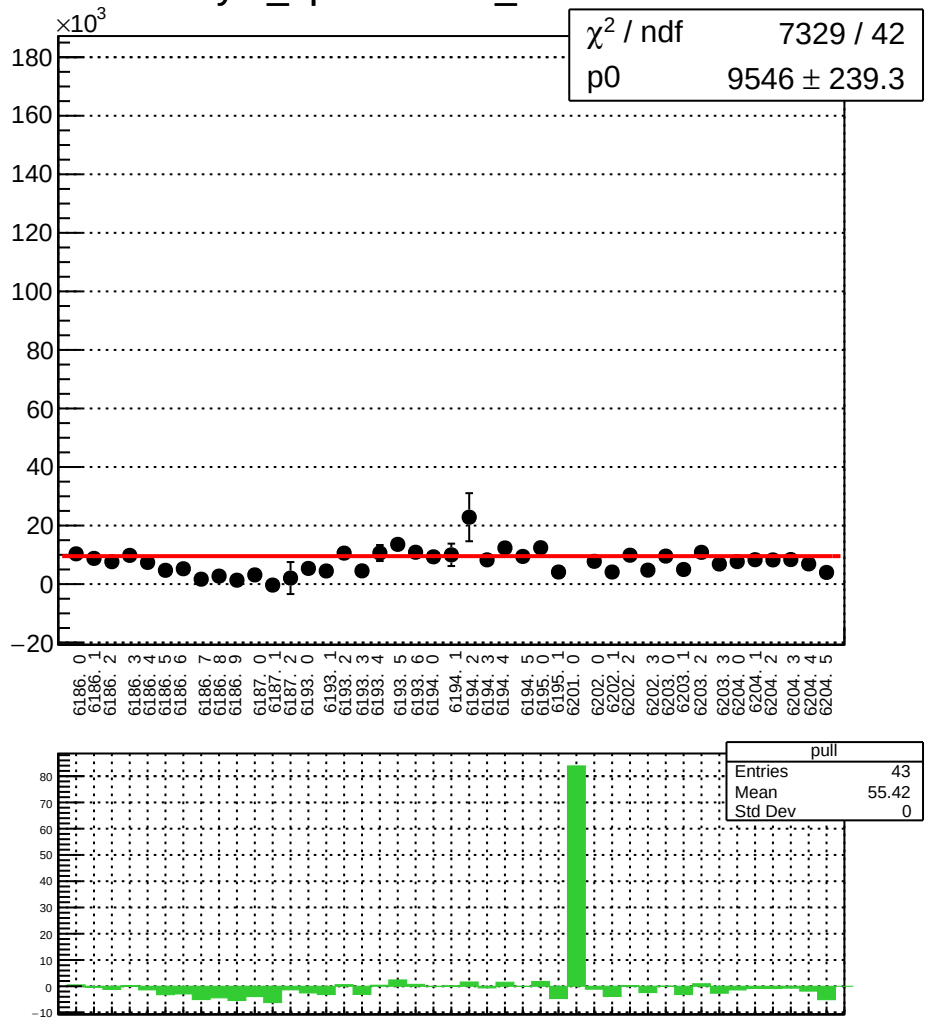

asym_bpm1i02WS_rms vs run
χ² / ndf 6.131e+04 / 42
p0 110.4 ± 0.1247
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

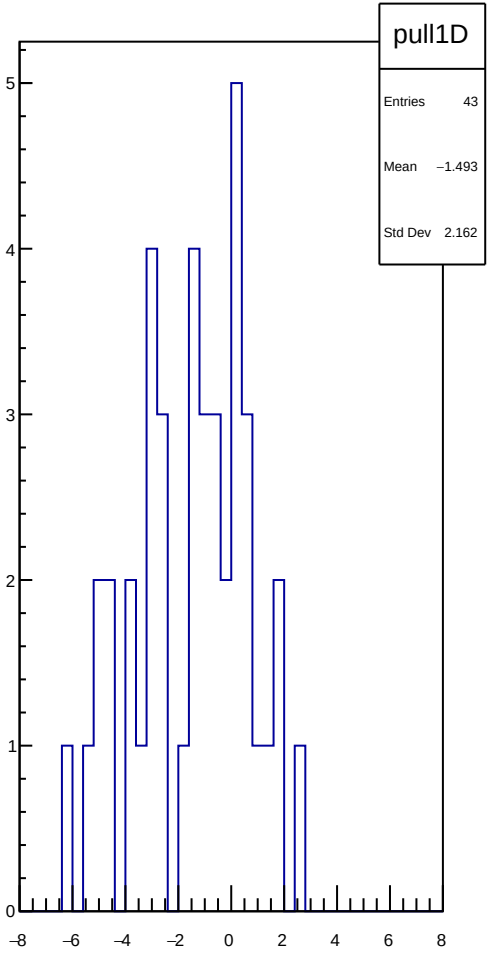

asym_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 1.244e+04 / 42
p0 3985 ± 152.9
160
140
120
100
80
60
40
20
0
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 55.38
Std Dev 0
100
80
60
40
20
0
pull1D
Entries 43
Mean −1.184
Std Dev 2.908
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

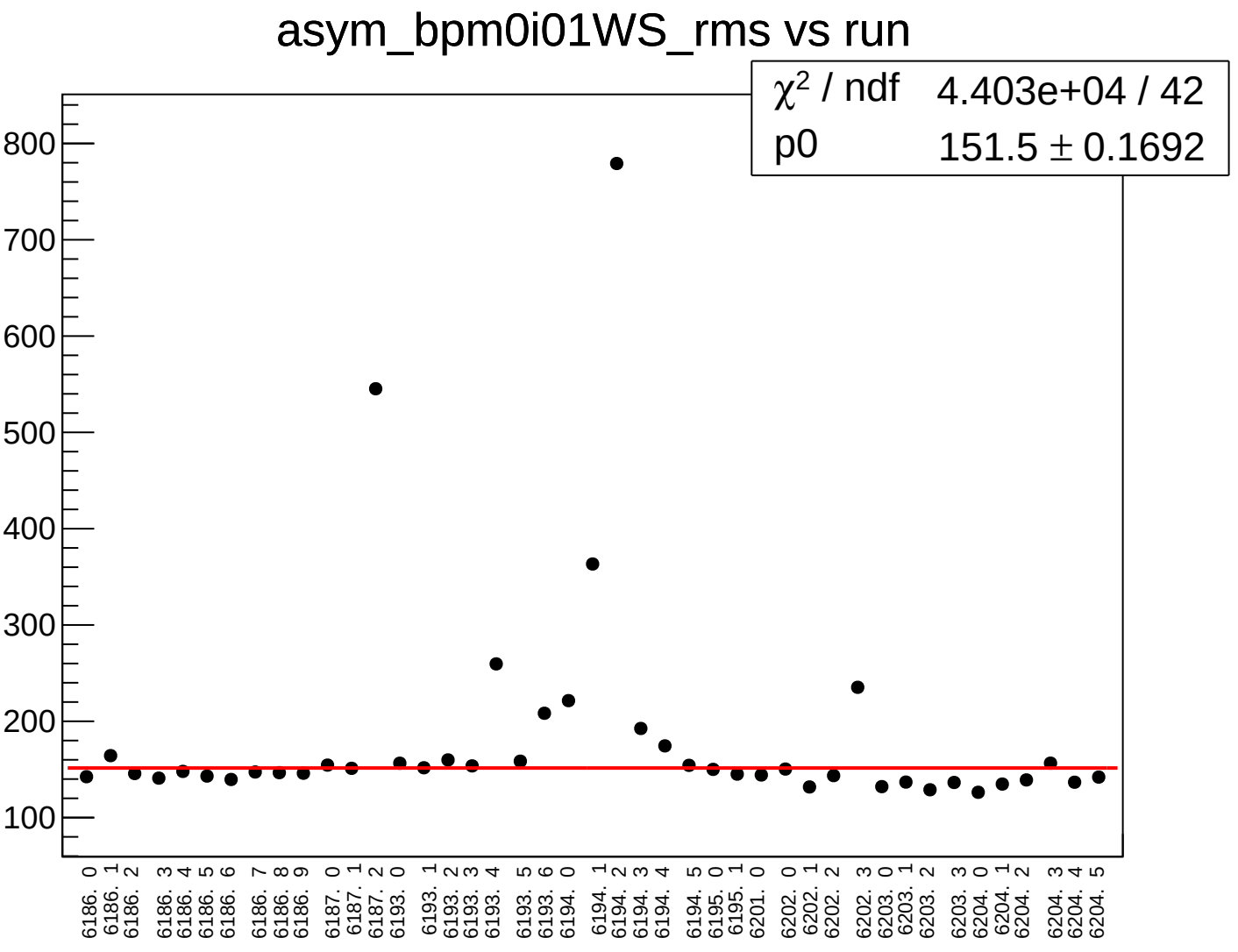

asym_bpm2i01WS_rms vs run
χ² / ndf 6.985e+04 / 42
p0 95.22 ± 0.1081
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

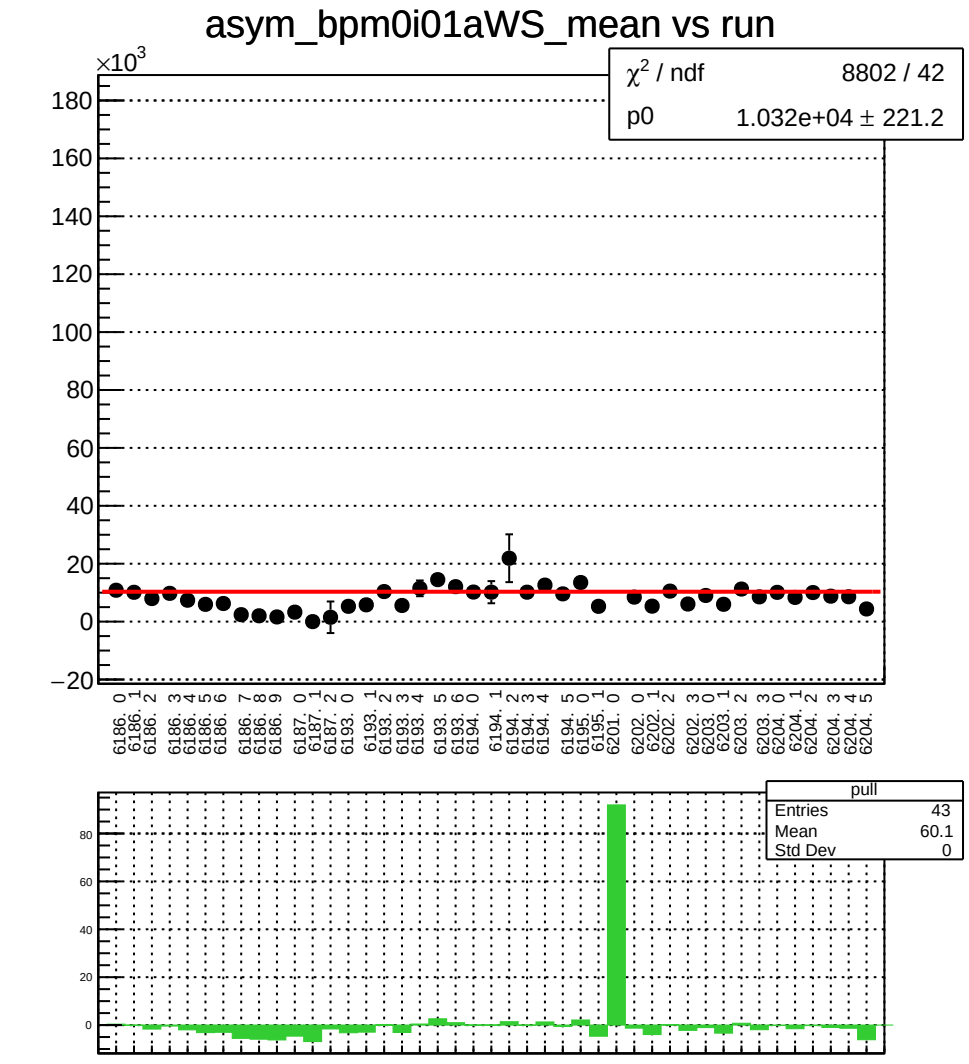

asym_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 1.398e+04 / 42
p0 4086 ± 146.5
160
140
120
100
80
60
40
20
0
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 58.47
Std Dev 0
120
100
80
60
40
20
0
pull1D
Entries 43
Mean −1.016
Std Dev 2.957
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

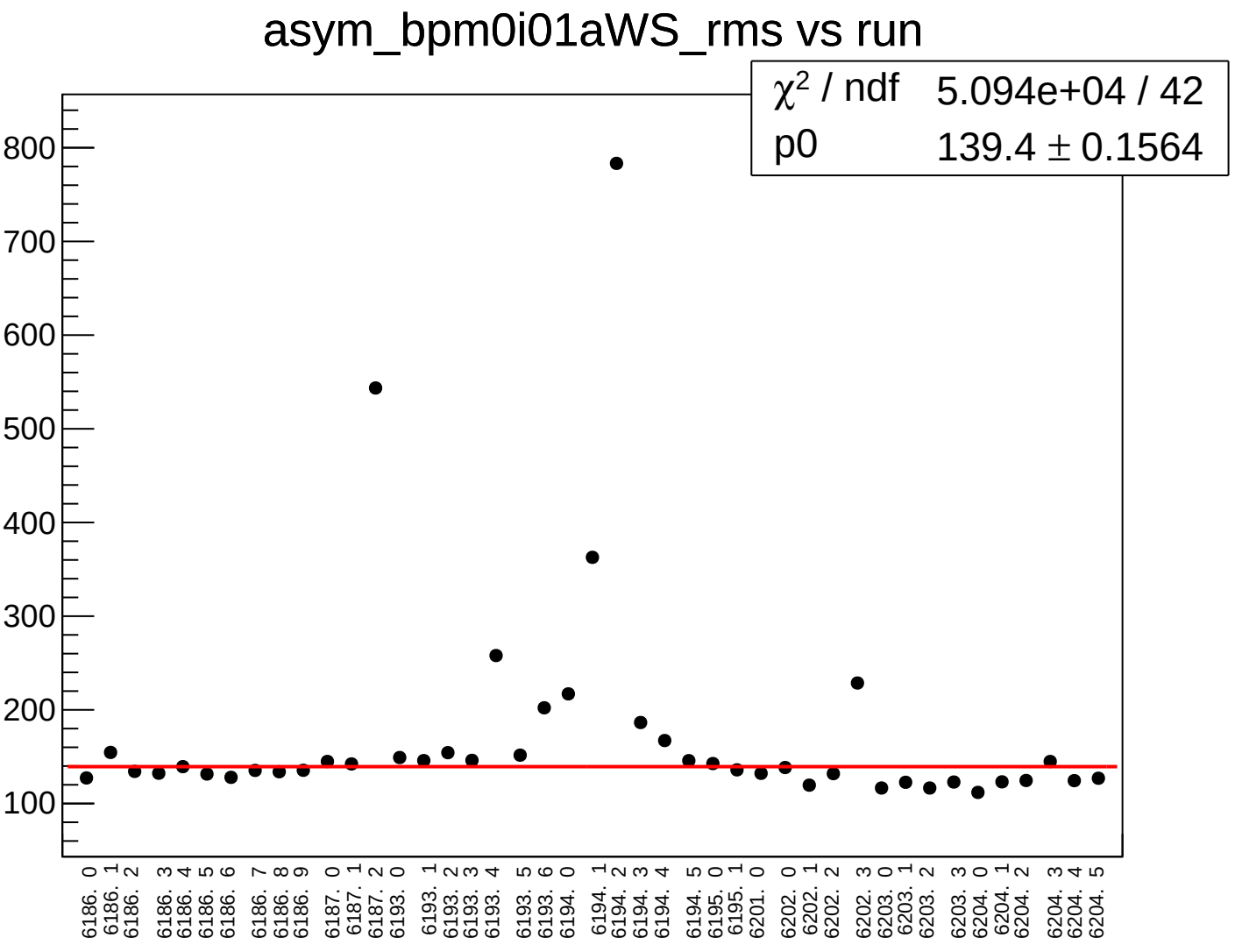

asym_bpm2i02WS_rms vs run
χ² / ndf 7.477e+04 / 42
p0 90.91 ± 0.1036
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

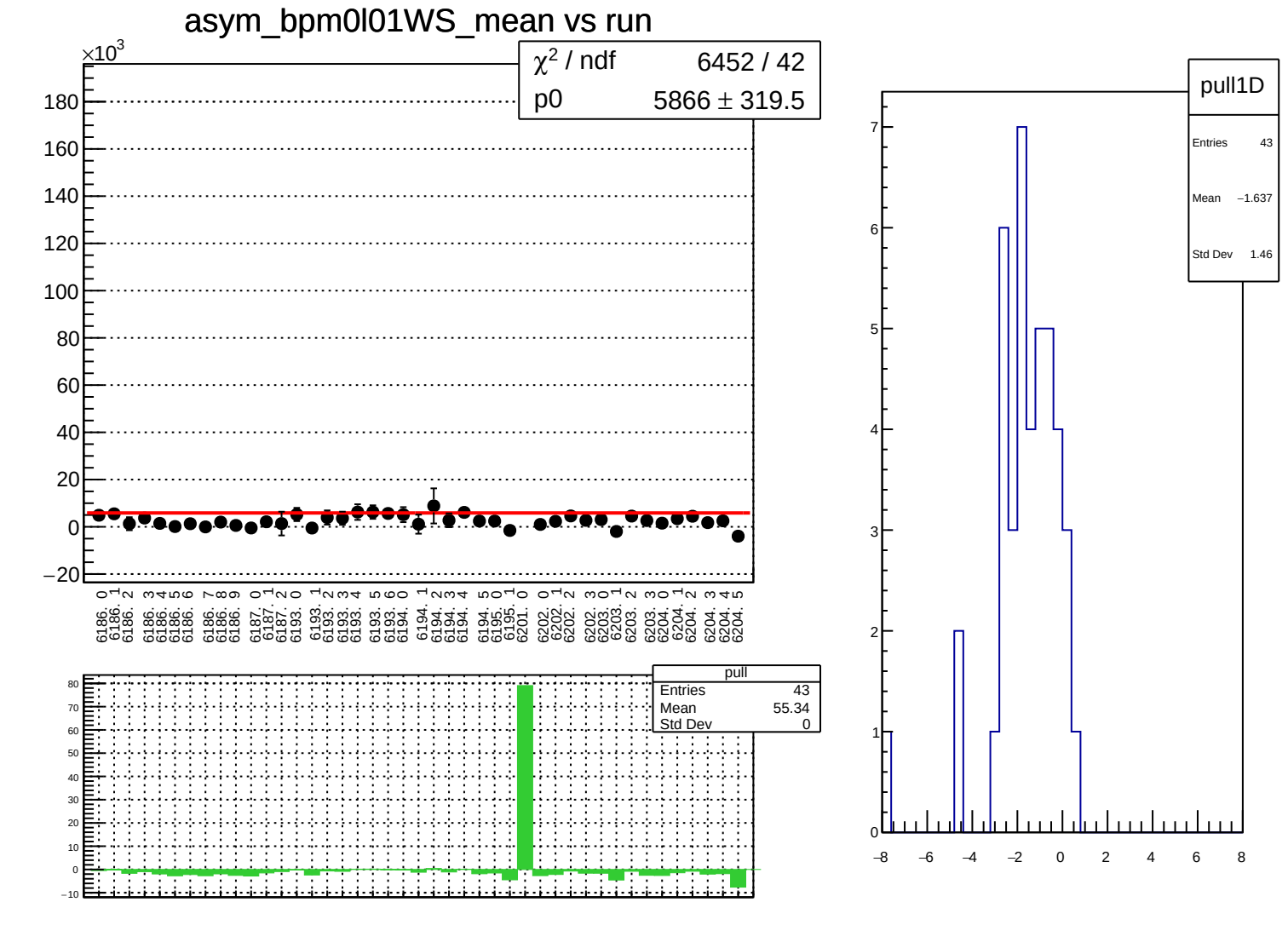

asym_bpm0i01WS_mean vs run
χ^2 / ndf 7329 / 42
p0 9546 ± 239.3
×10^3
pull
Entries 43
Mean 55.42
Std Dev 0

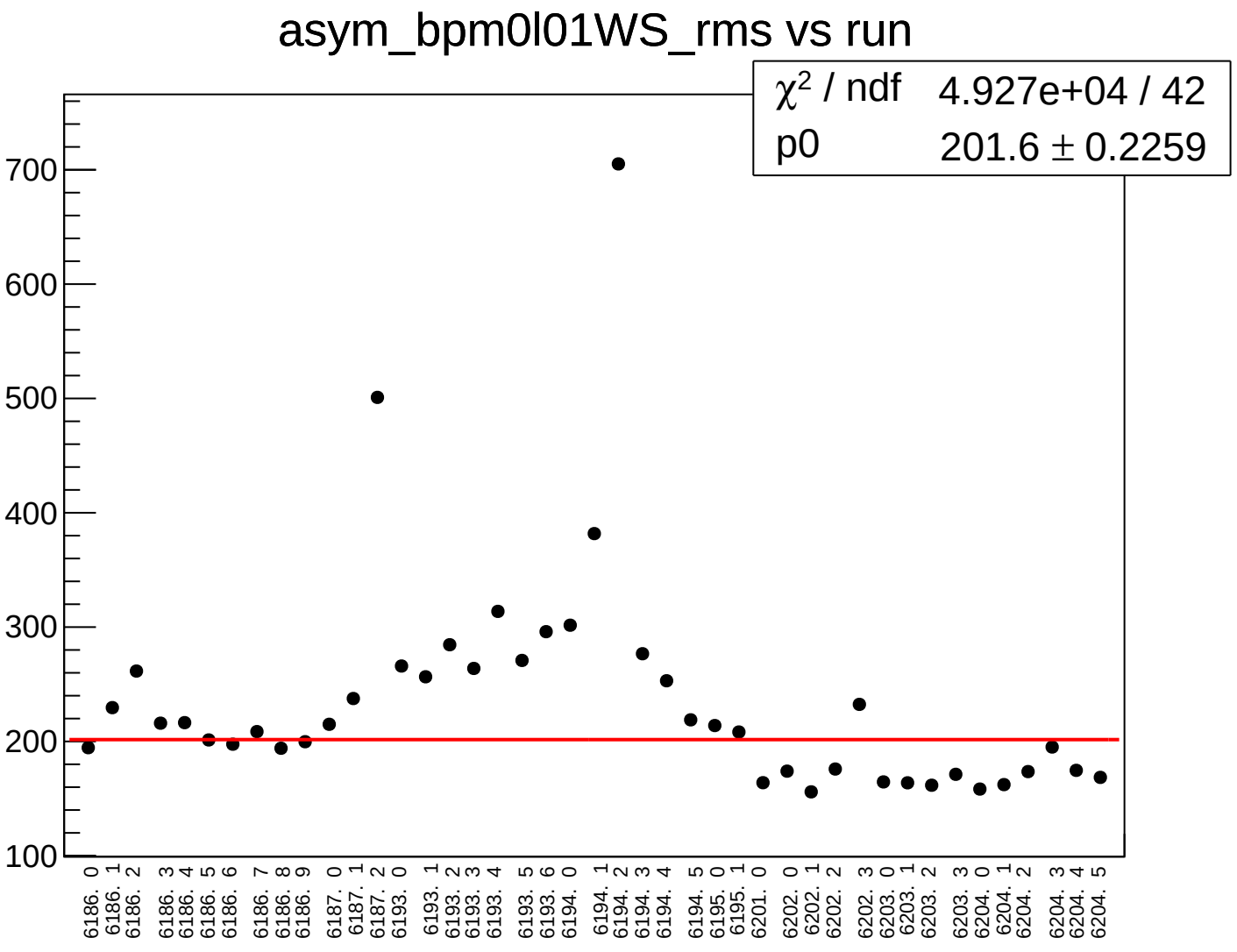

pull1D
Entries 43
Mean −1.493
Std Dev 2.162

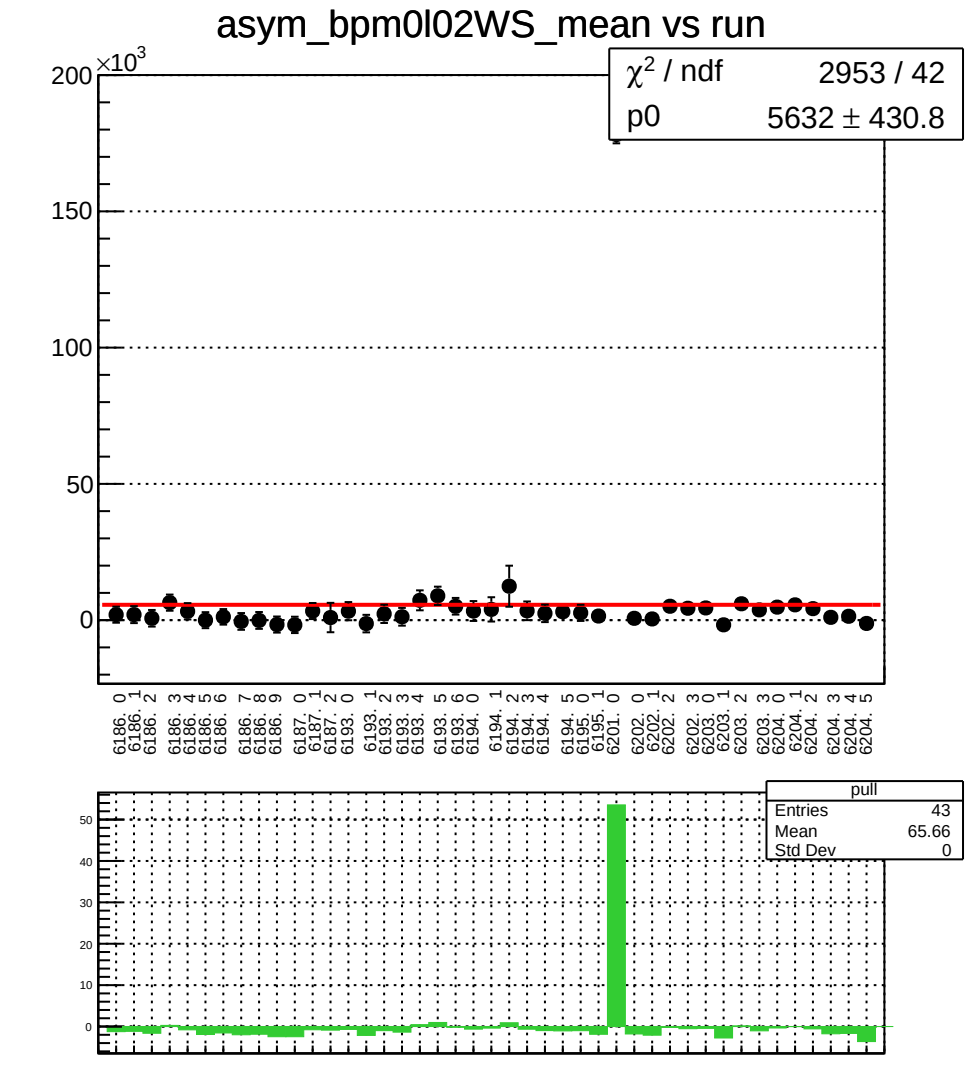

asym_bpm0i01WS_rms vs run
χ² / ndf 4.403e+04 / 42
p0 151.5 ± 0.1692
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

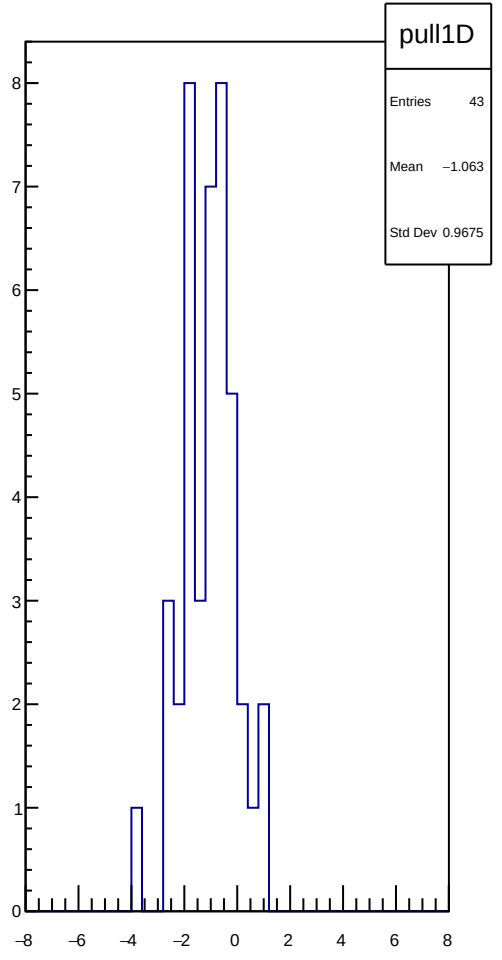

asym_bpm0i01aWS_mean vs run
×10^3
χ^2 / ndf 8802 / 42
p0 1.032e+04 ± 221.2
pull
Entries 43
Mean 60.1
Std Dev 0
pull1D
Entries 43
Mean −1.662
Std Dev 2.358

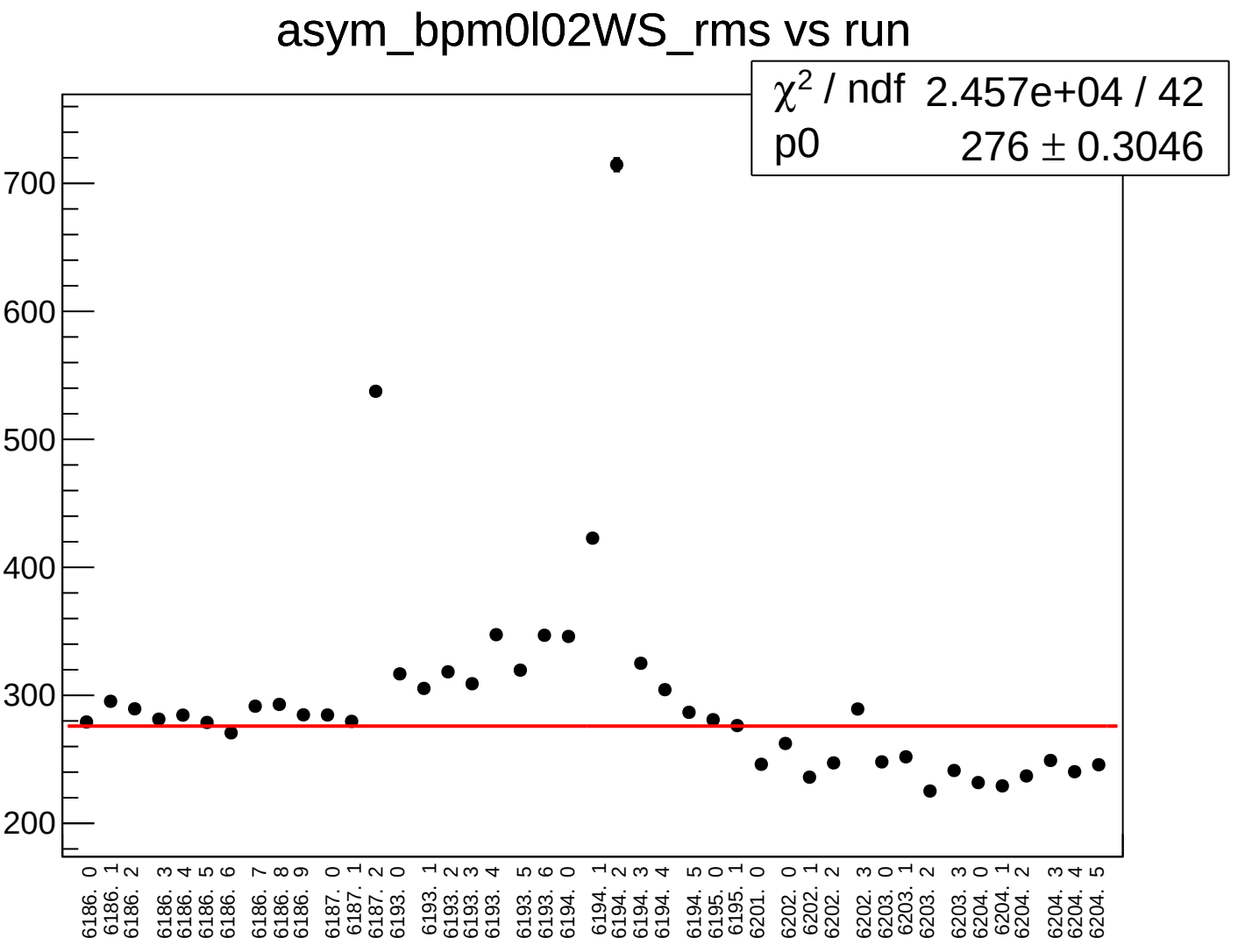

asym_bpm0i01aWS_rms vs run
χ² / ndf 5.094e+04 / 42
p0 139.4 ± 0.1564
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

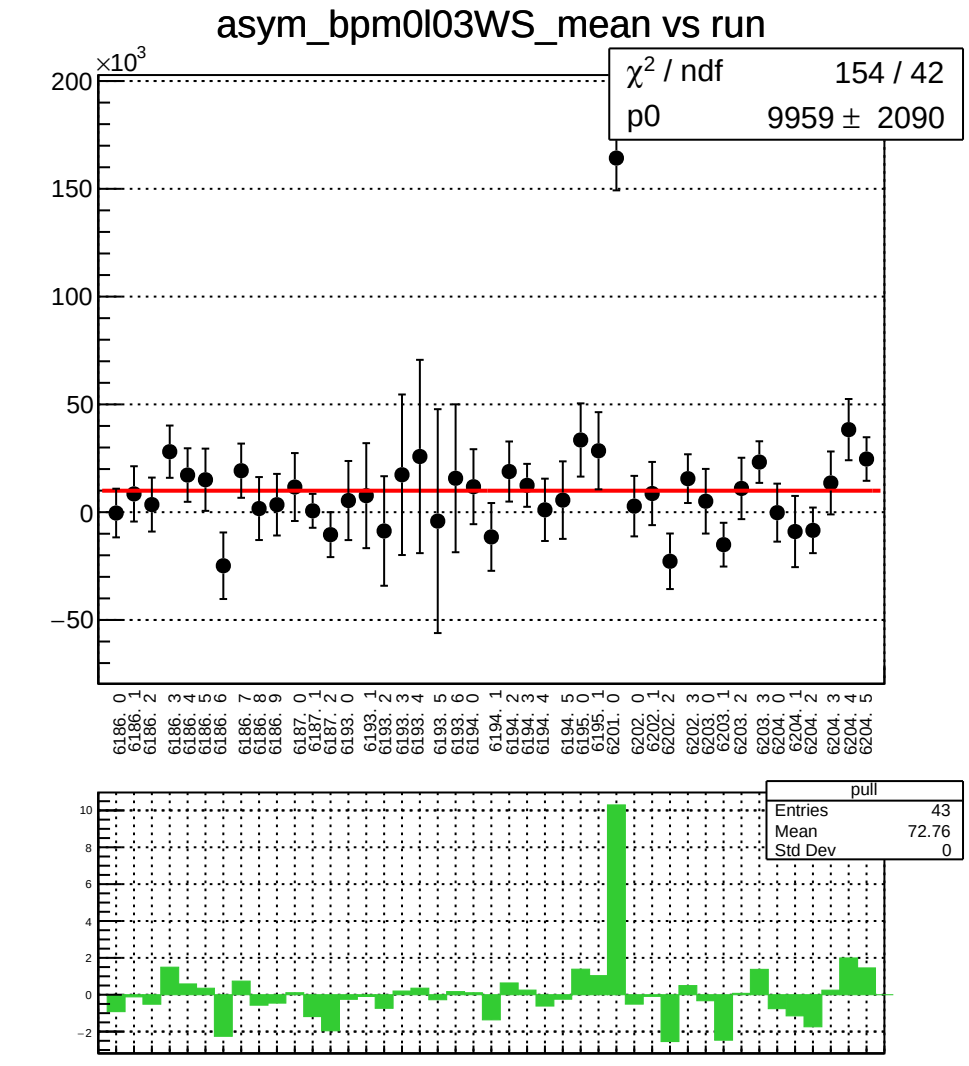

asym_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 6452 / 42
p0 5866 ± 319.5
pull
Entries 43
Mean 55.34
Std Dev 0
pull1D
Entries 43
Mean −1.637
Std Dev 1.46

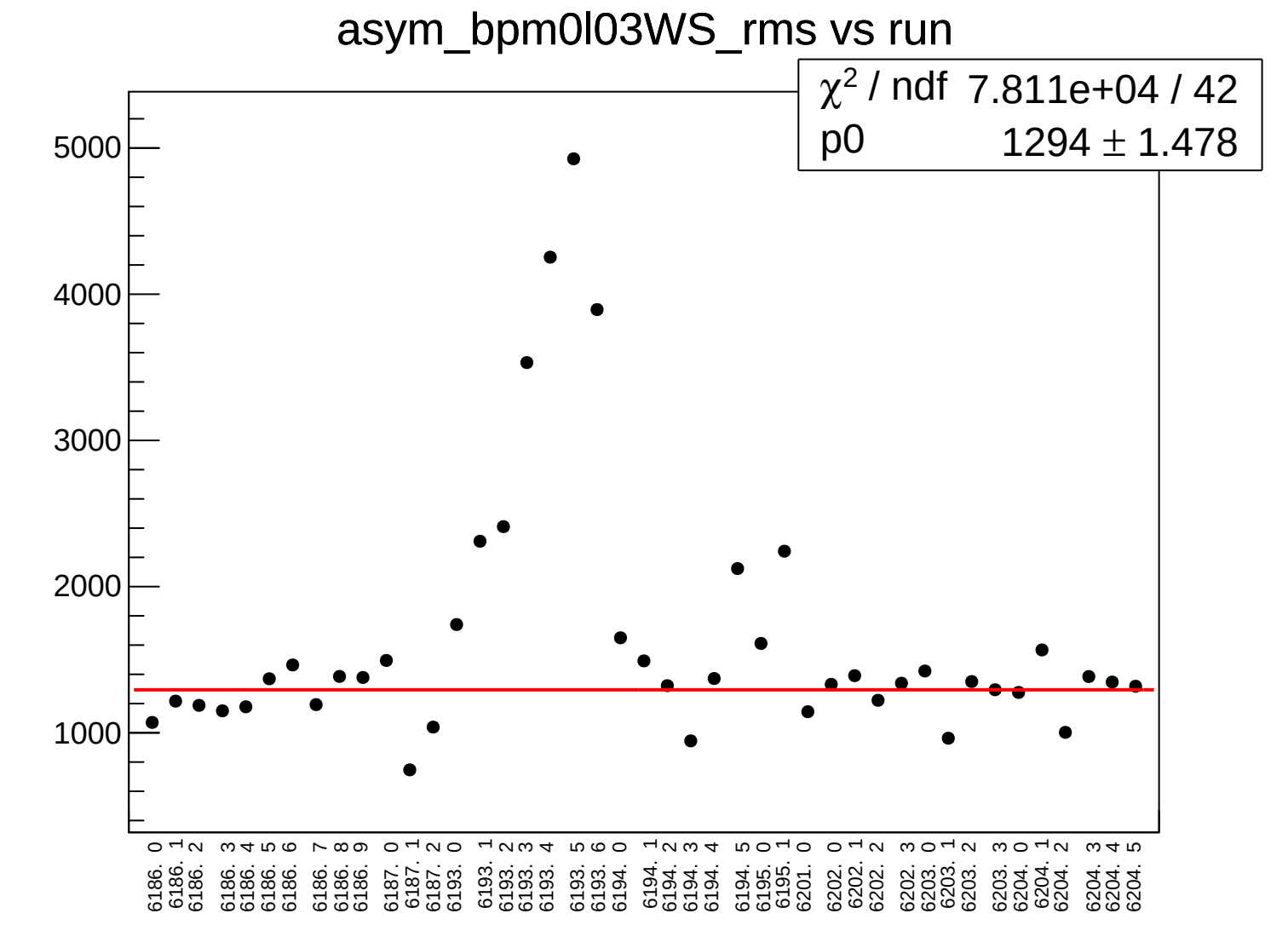

asym_bpm0l01WS_rms vs run
χ² / ndf 4.927e+04 / 42
p0 201.6 ± 0.2259
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

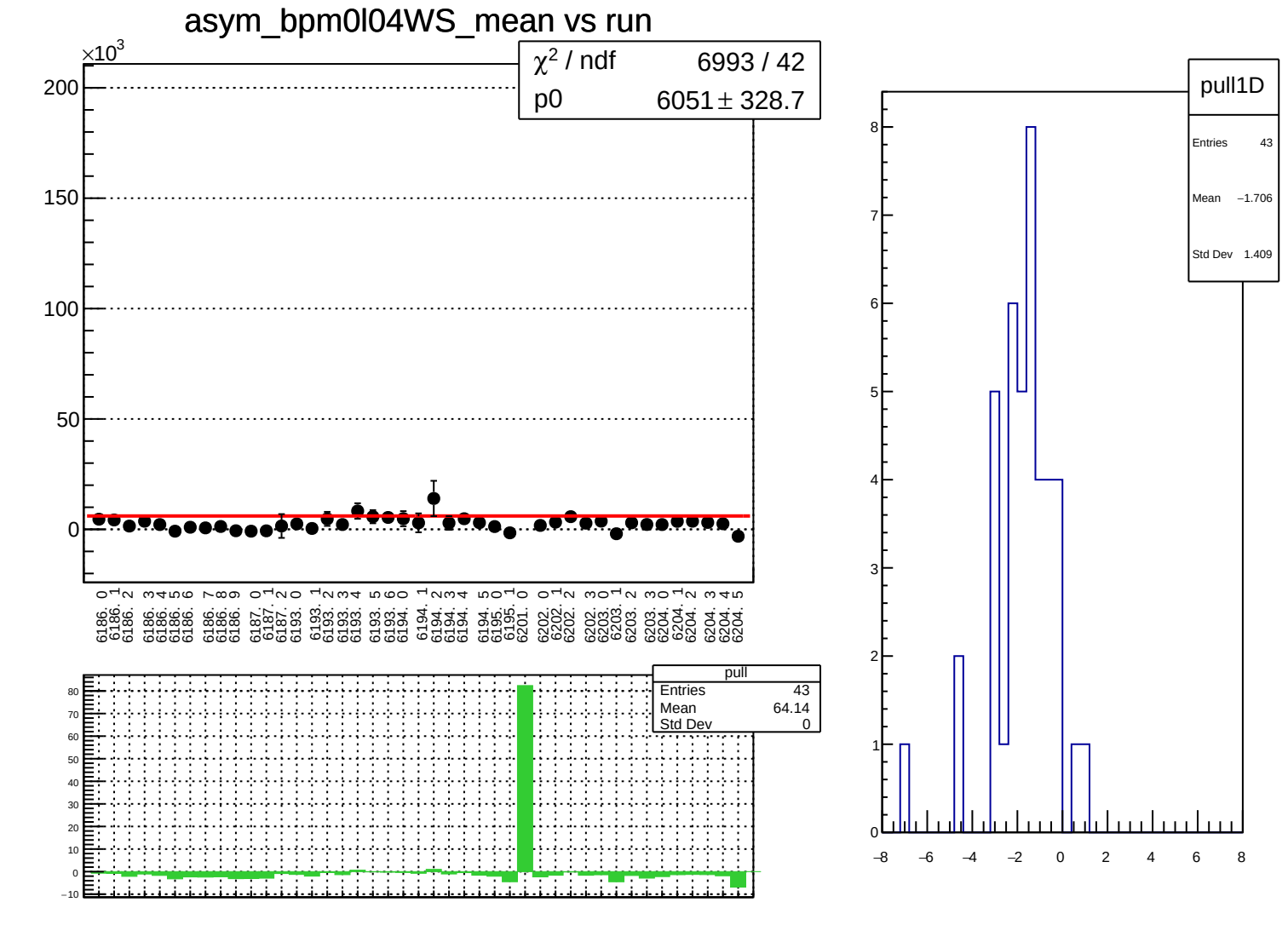

asym_bpm0l02WS_mean vs run
χ² / ndf 2953 / 42
p0 5632 ± 430.8
×10³
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 65.66
Std Dev 0
50
40
30
20
10
0

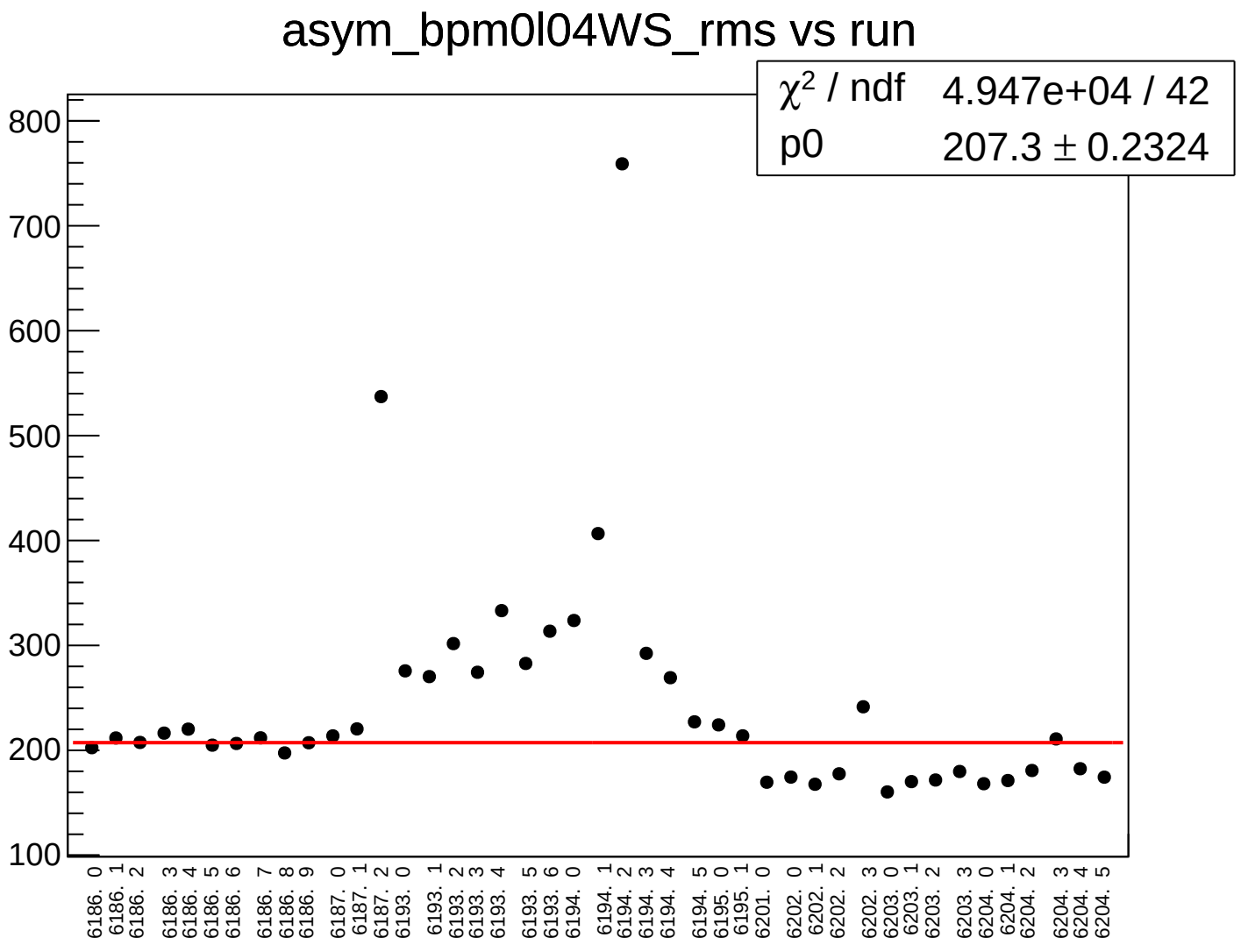

pull1D
Entries 43
Mean −1.063
Std Dev 0.9675
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

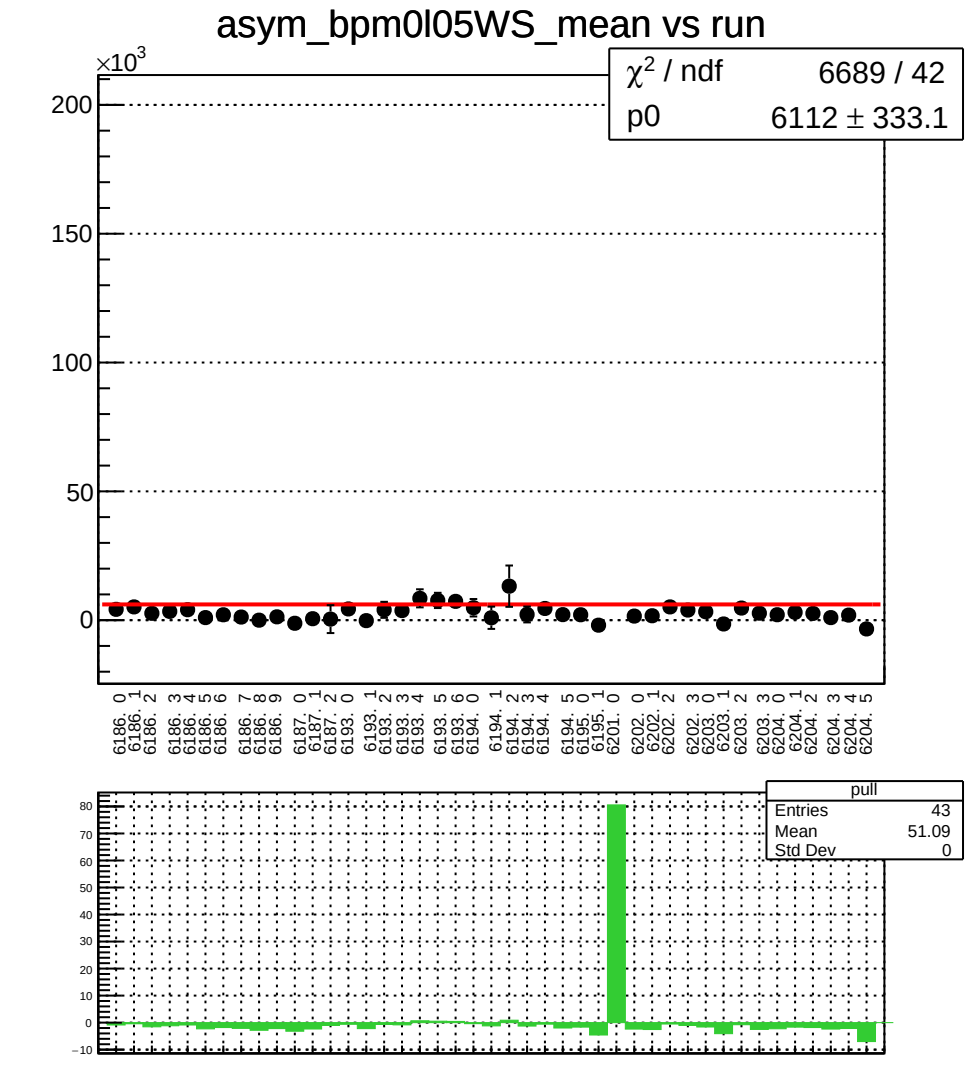

asym_bpm0l02WS_rms vs run
χ² / ndf 2.457e+04 / 42
p0 276 ± 0.3046
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

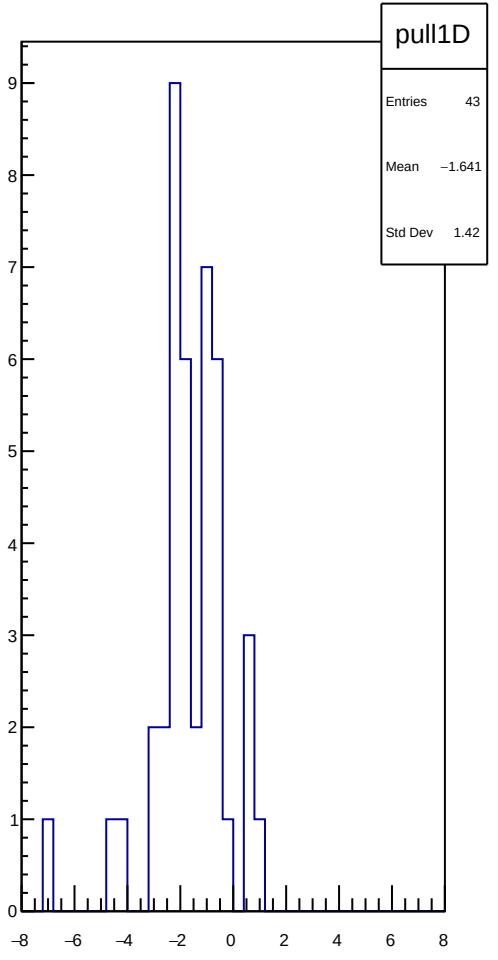

asym_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 154 / 42
p0 9959 ± 2090
200
150
100
50
0
−50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 72.76
Std Dev 0
10
8
6
4
2
0
−2
pull1D
Entries 43
Mean −0.1917
Std Dev 1.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

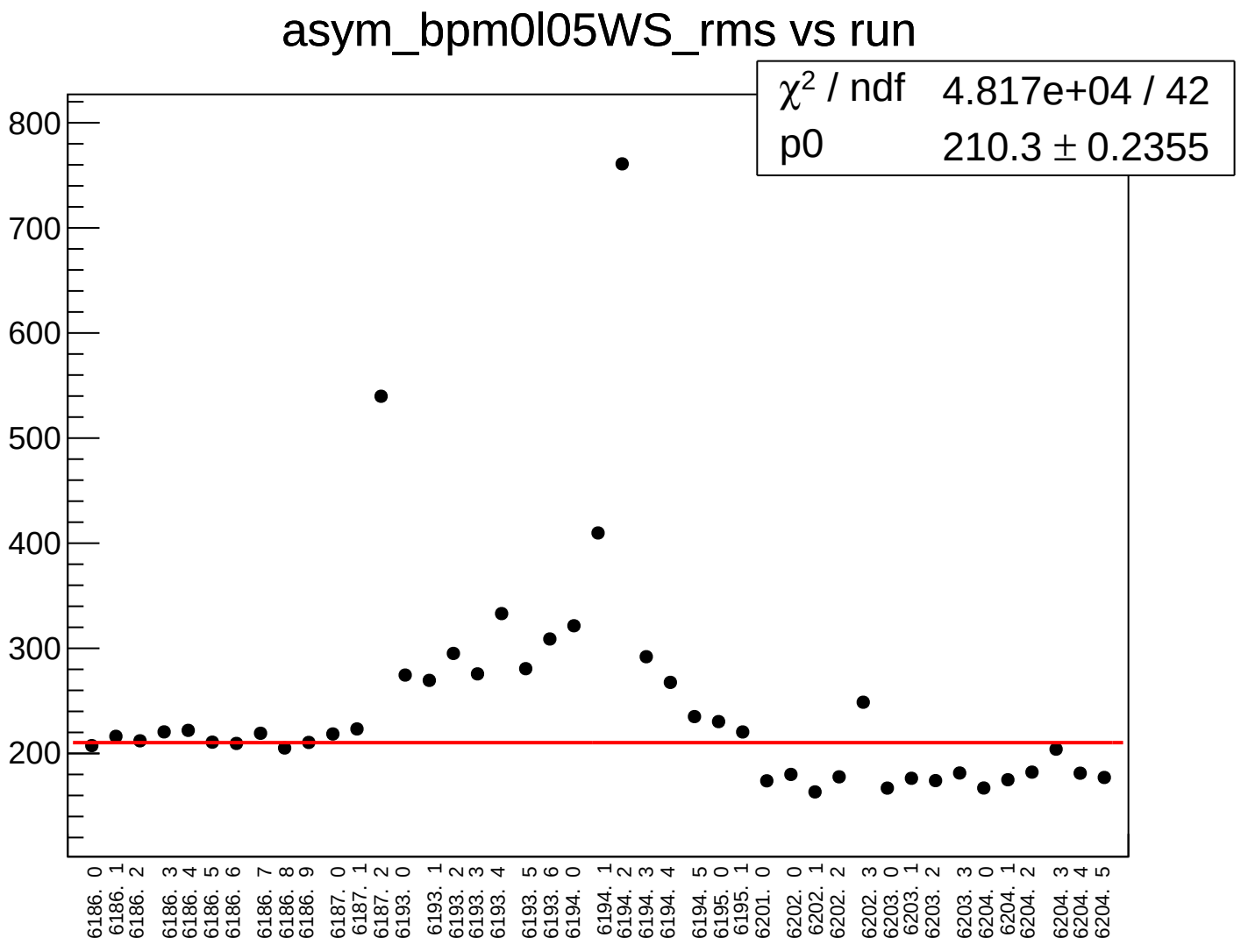

asym_bpm0l03WS_rms vs run
χ² / ndf 7.811e+04 / 42
p0 1294 ± 1.478
5000
4000
3000
2000
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_bpm0l04WS_mean vs run
×10^3
χ^2 / ndf 6993 / 42
p0 6051 ± 328.7
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 64.14
Std Dev 0
80
70
60
50
40
30
20
10
0
−10
pull1D
Entries 43
Mean −1.706
Std Dev 1.409
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l04WS_rms vs run
χ² / ndf 4.947e+04 / 42
p0 207.3 ± 0.2324
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_bpm0l05WS_mean vs run
χ² / ndf 6689 / 42
p0 6112 ± 333.1
pull
Entries 43
Mean 51.09
Std Dev 0


pull1D
Entries 43
Mean −1.641
Std Dev 1.42


asym_bpm0l05WS_rms vs run
χ² / ndf 4.817e+04 / 42
p0 210.3 ± 0.2355
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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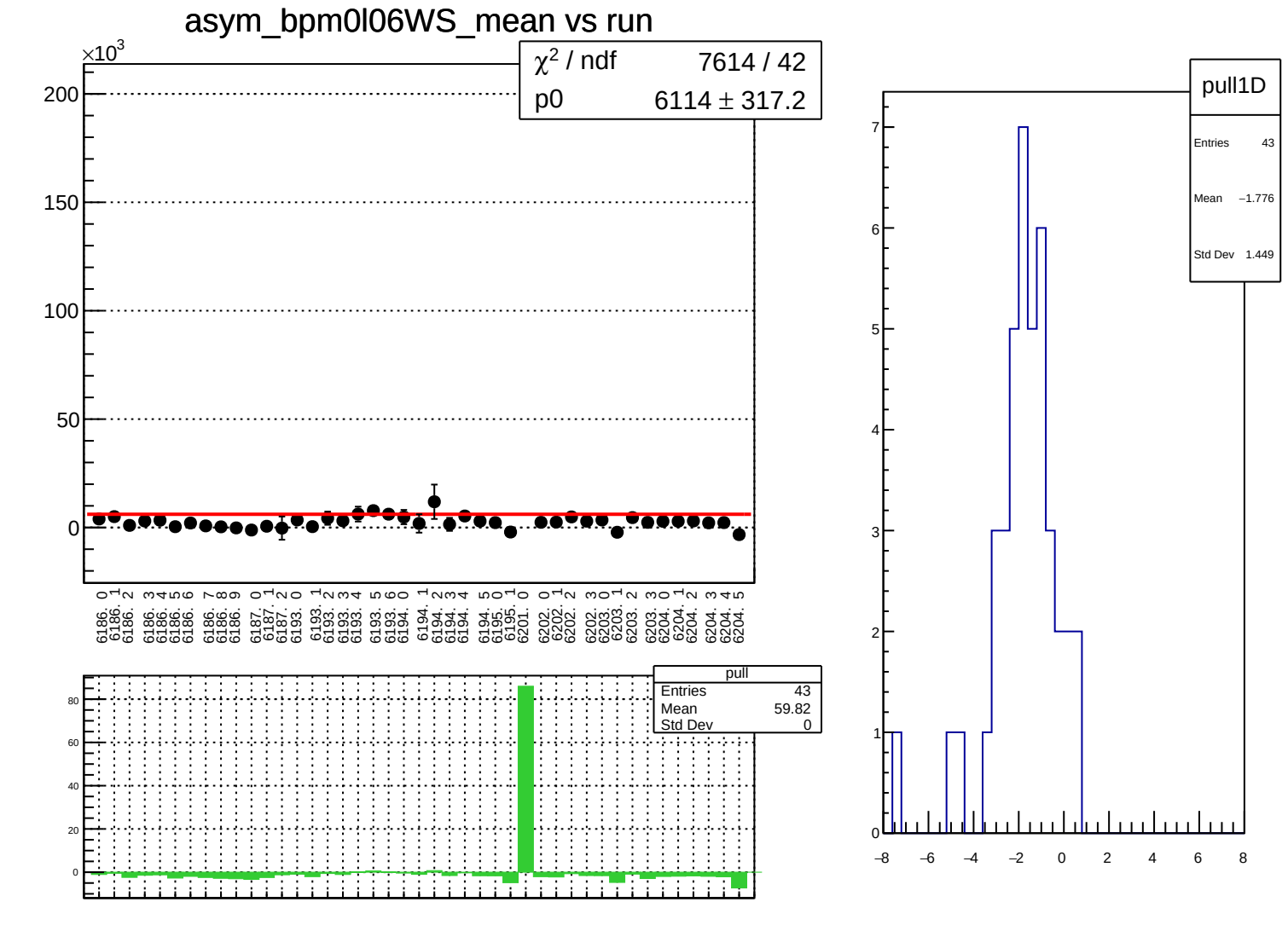
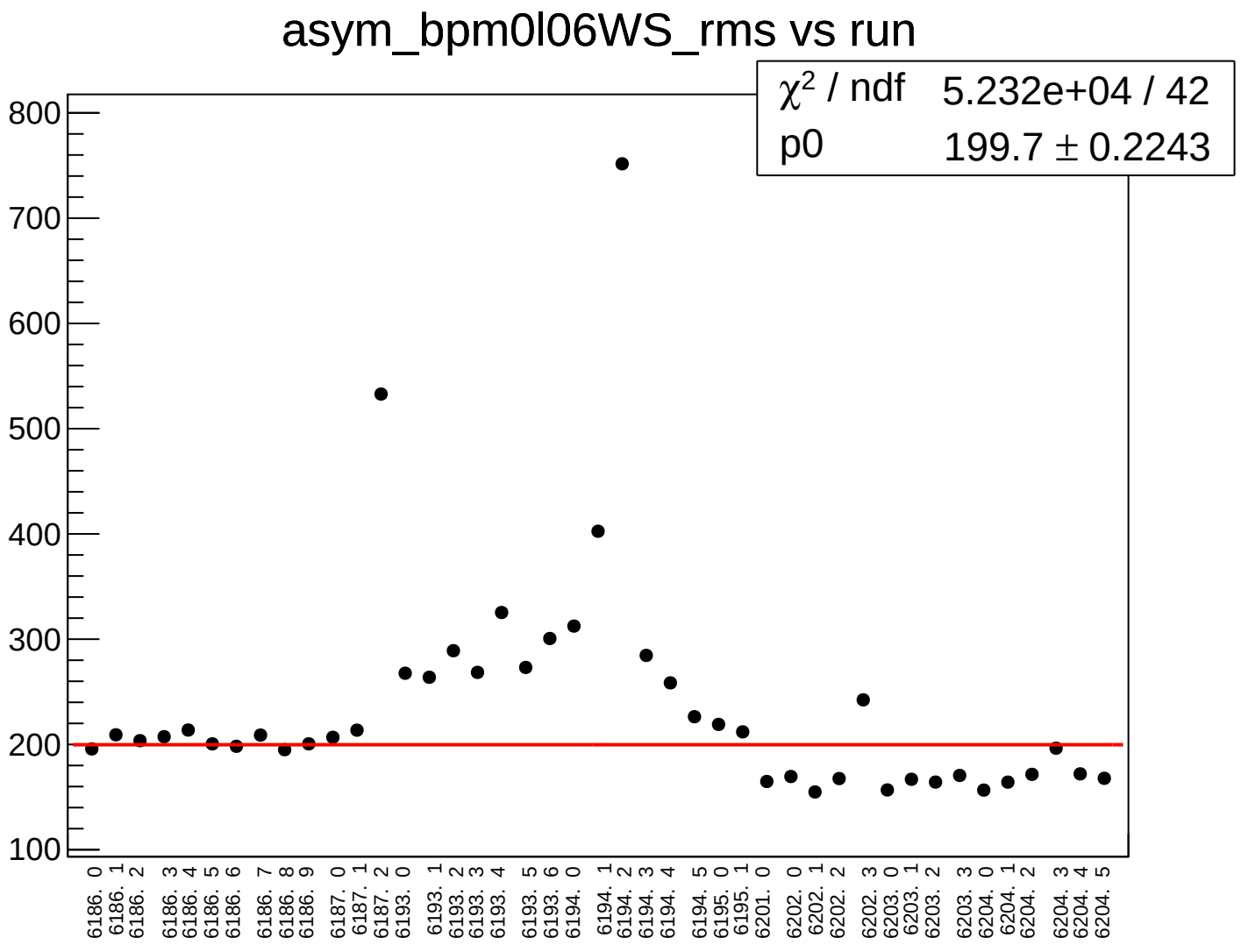
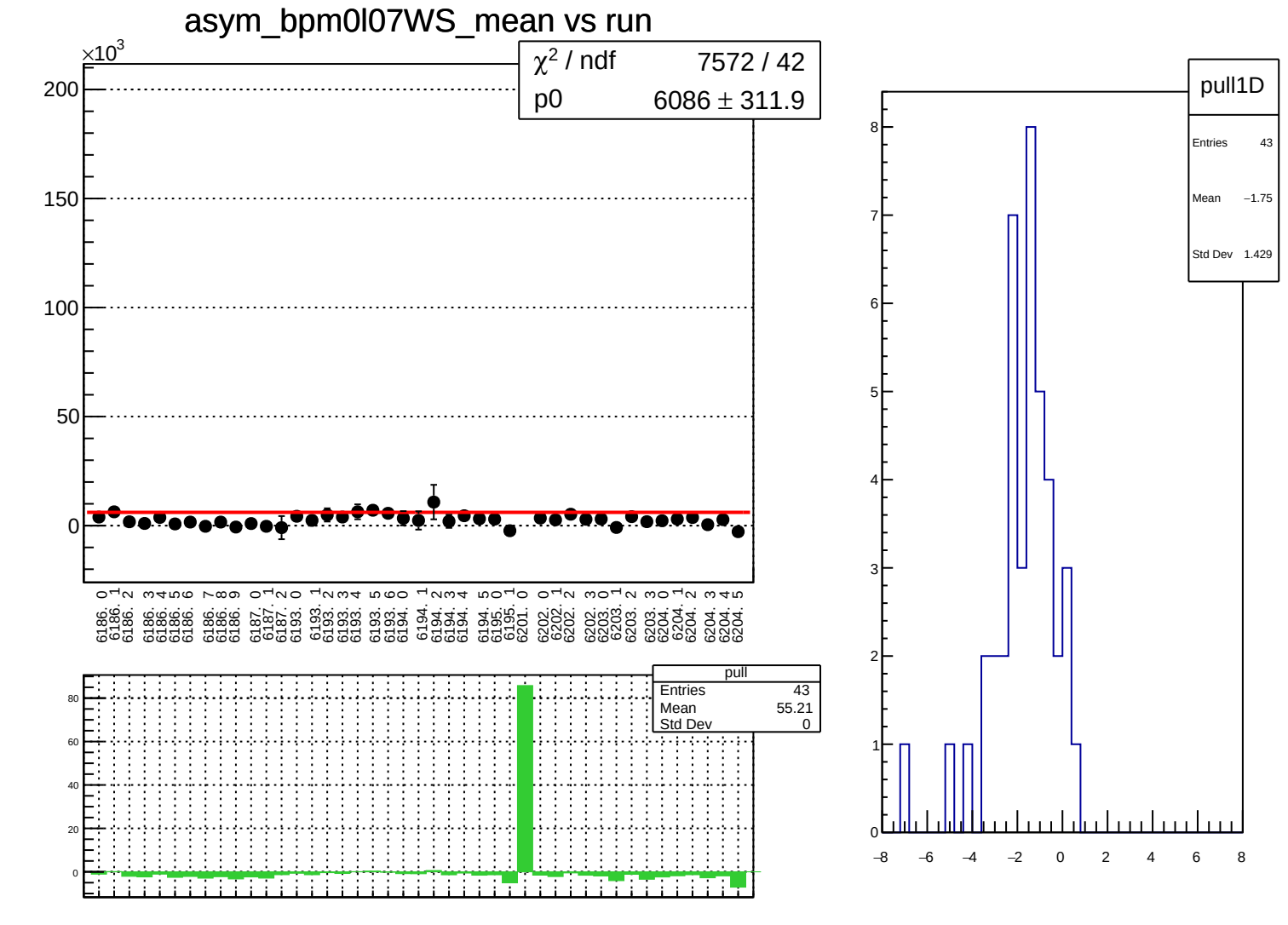
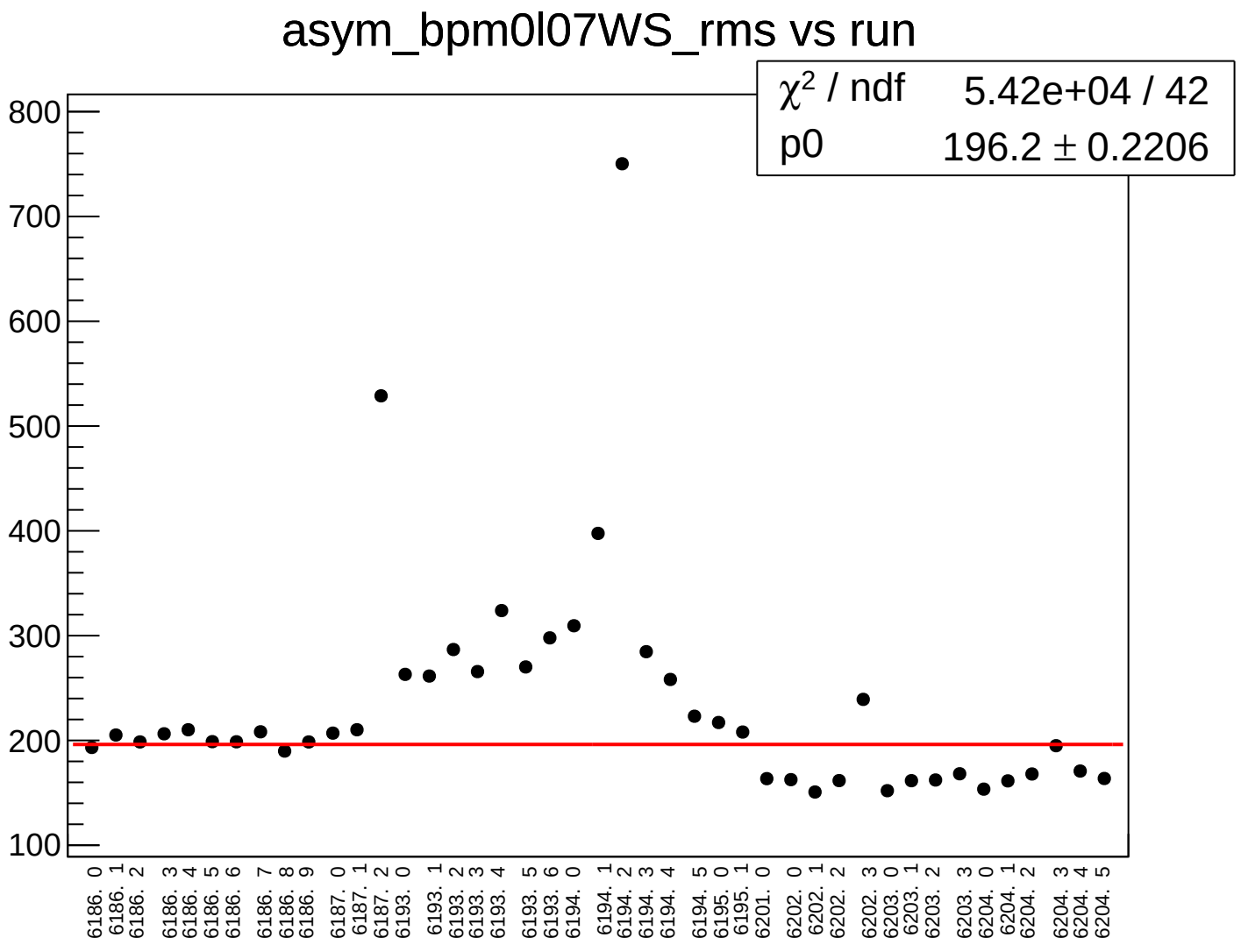
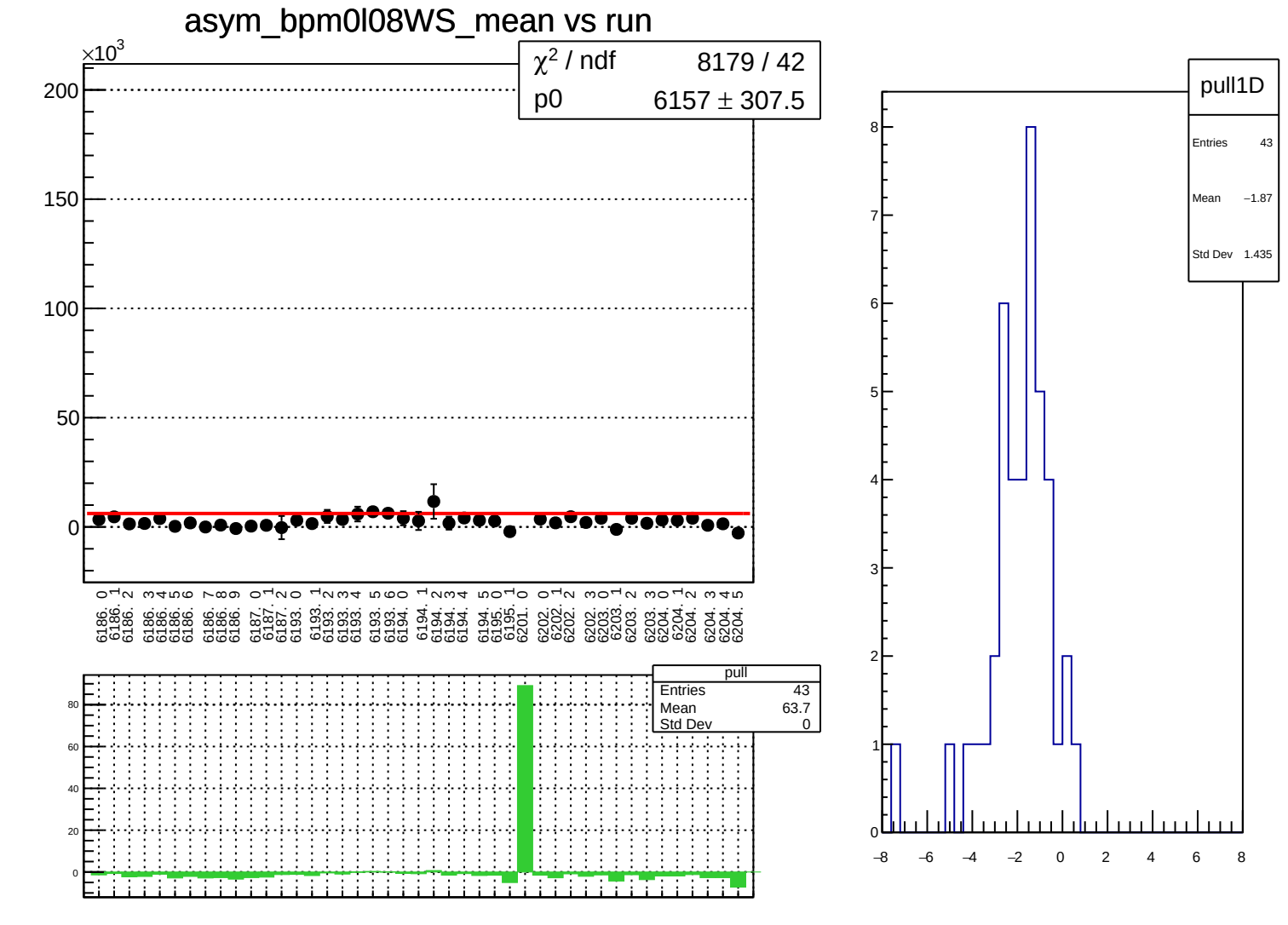
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

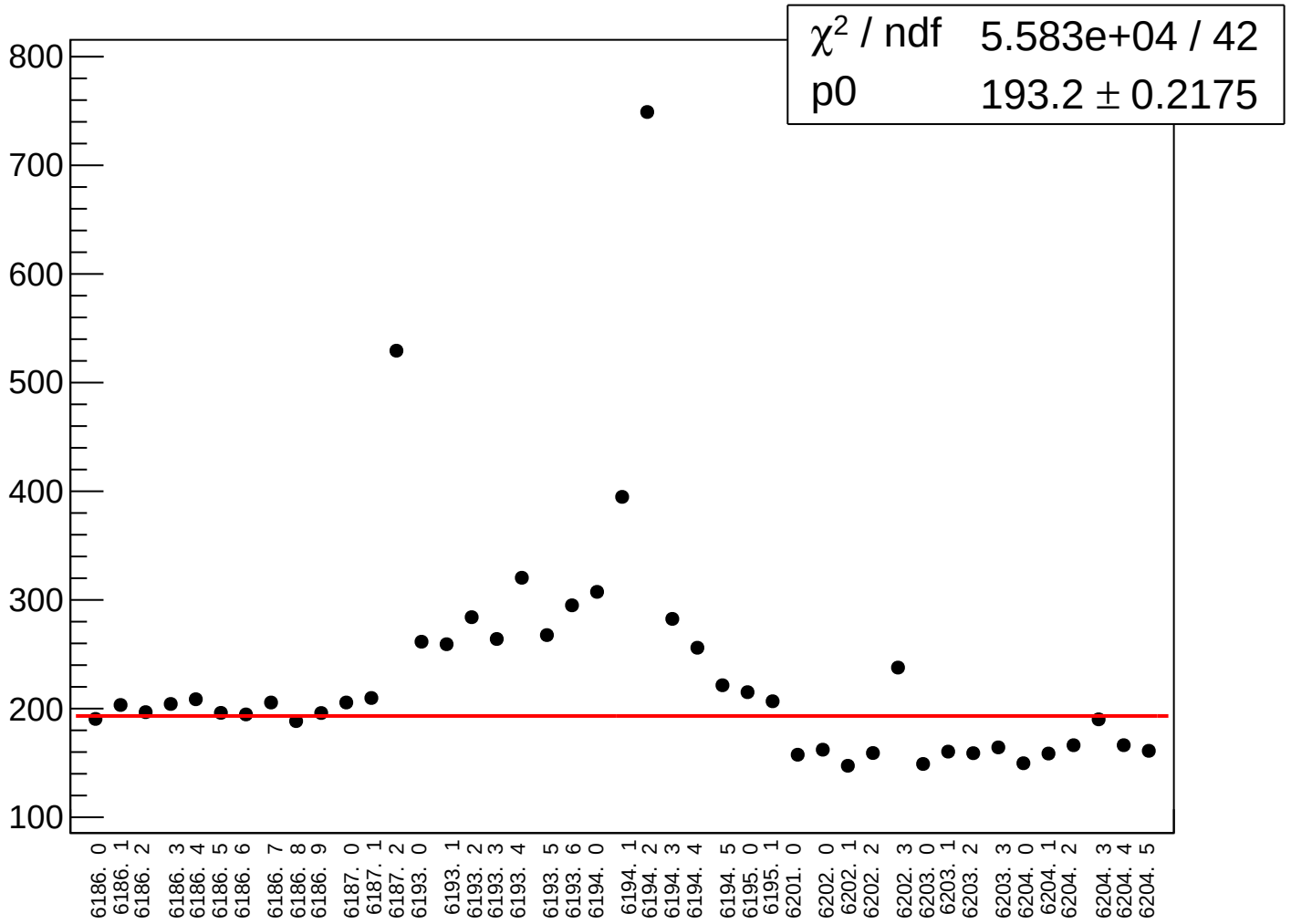

asym_bpm0l06WS_mean vs run
×10^3
χ^2 / ndf 7614 / 42
p0 6114 ± 317.2
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 59.82
Std Dev 0
80
60
40
20
0
pull1D
Entries 43
Mean −1.776
Std Dev 1.449
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

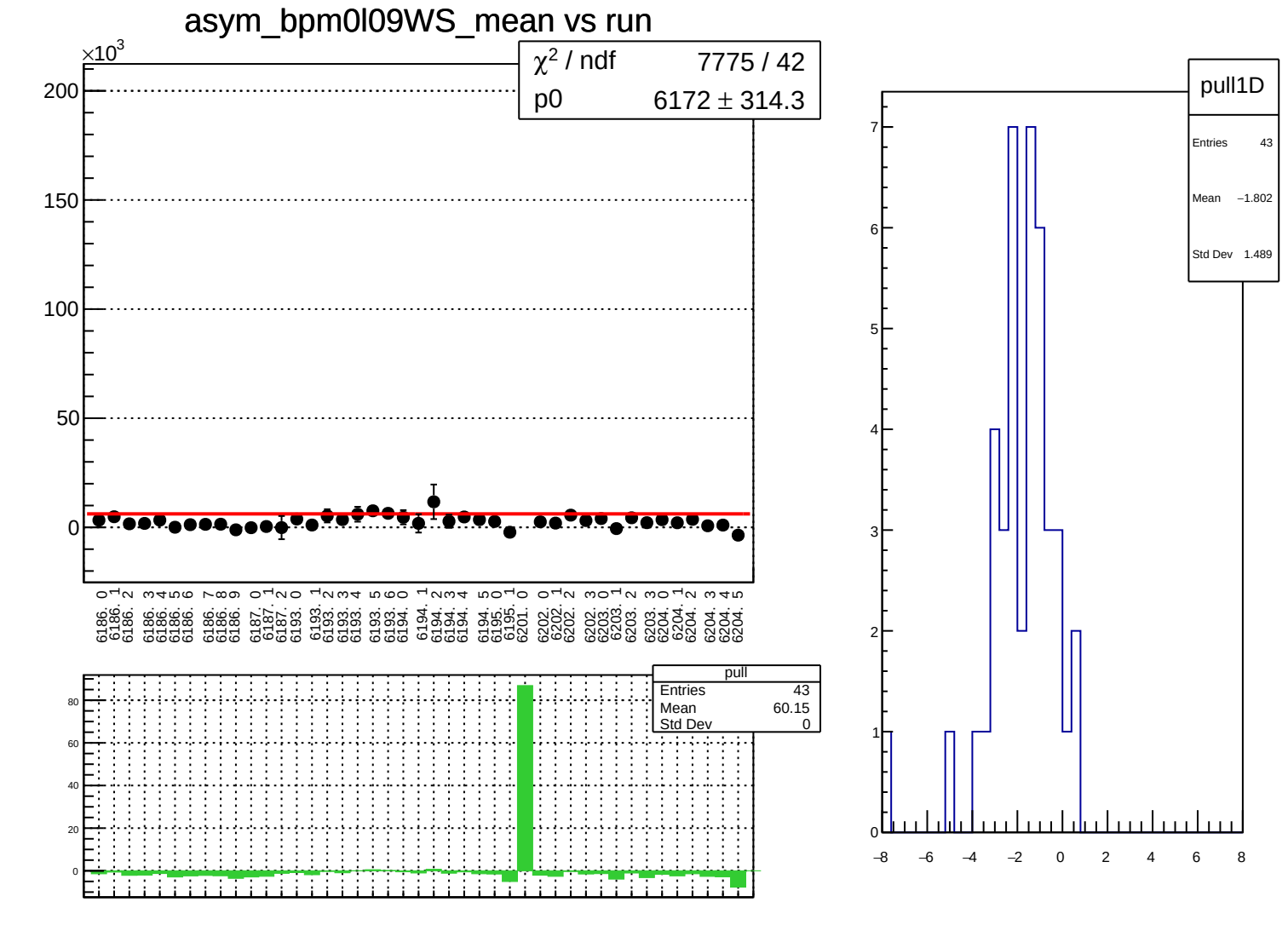

asym_bpm0l06WS_rms vs run
χ² / ndf 5.232e+04 / 42
p0 199.7 ± 0.2243
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

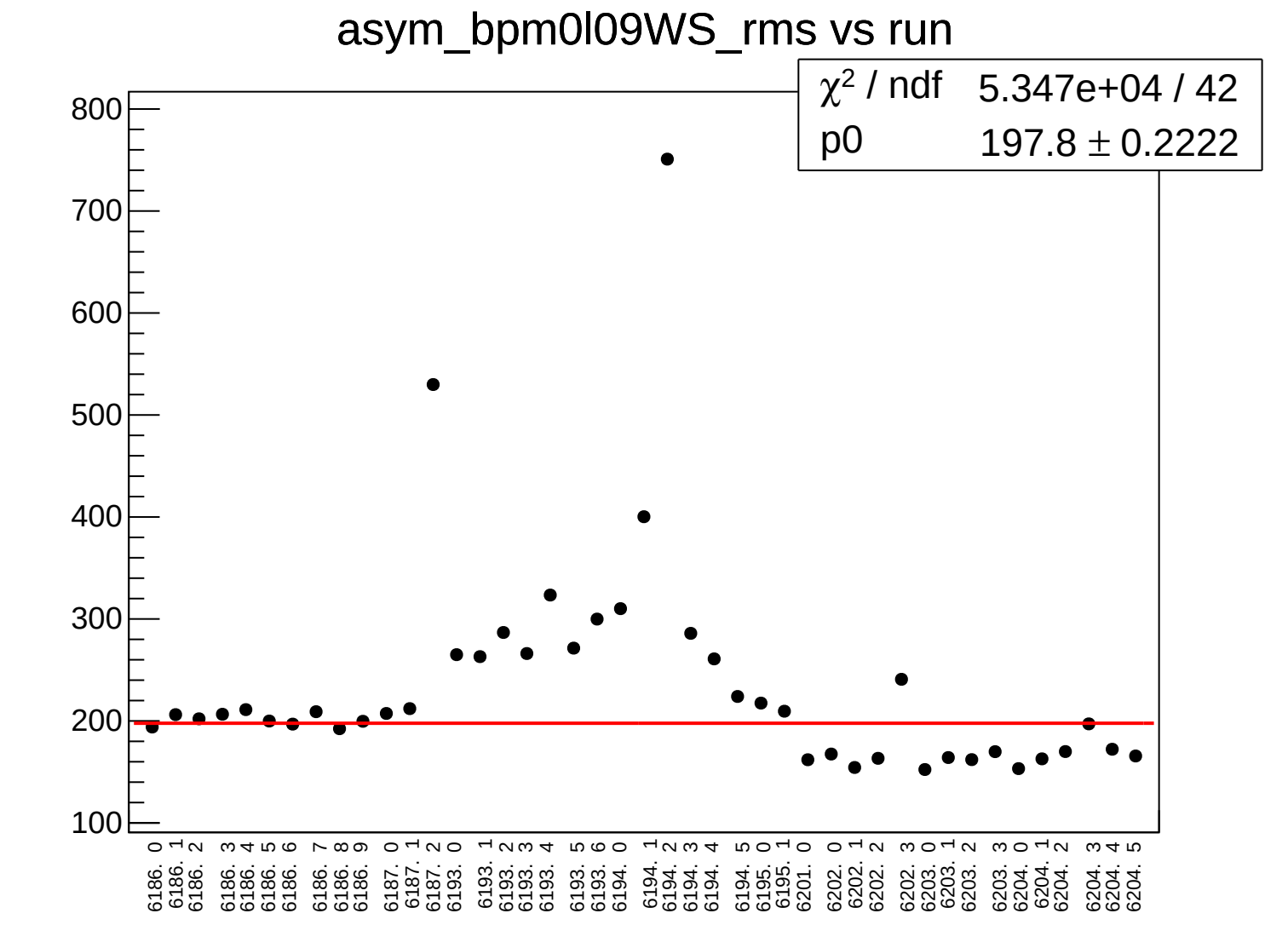

asym_bpm0l07WS_mean vs run
×10^3
χ^2 / ndf 7572 / 42
p0 6086 ± 311.9
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 55.21
Std Dev 0
80
60
40
20
0
pull1D
Entries 43
Mean −1.75
Std Dev 1.429
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

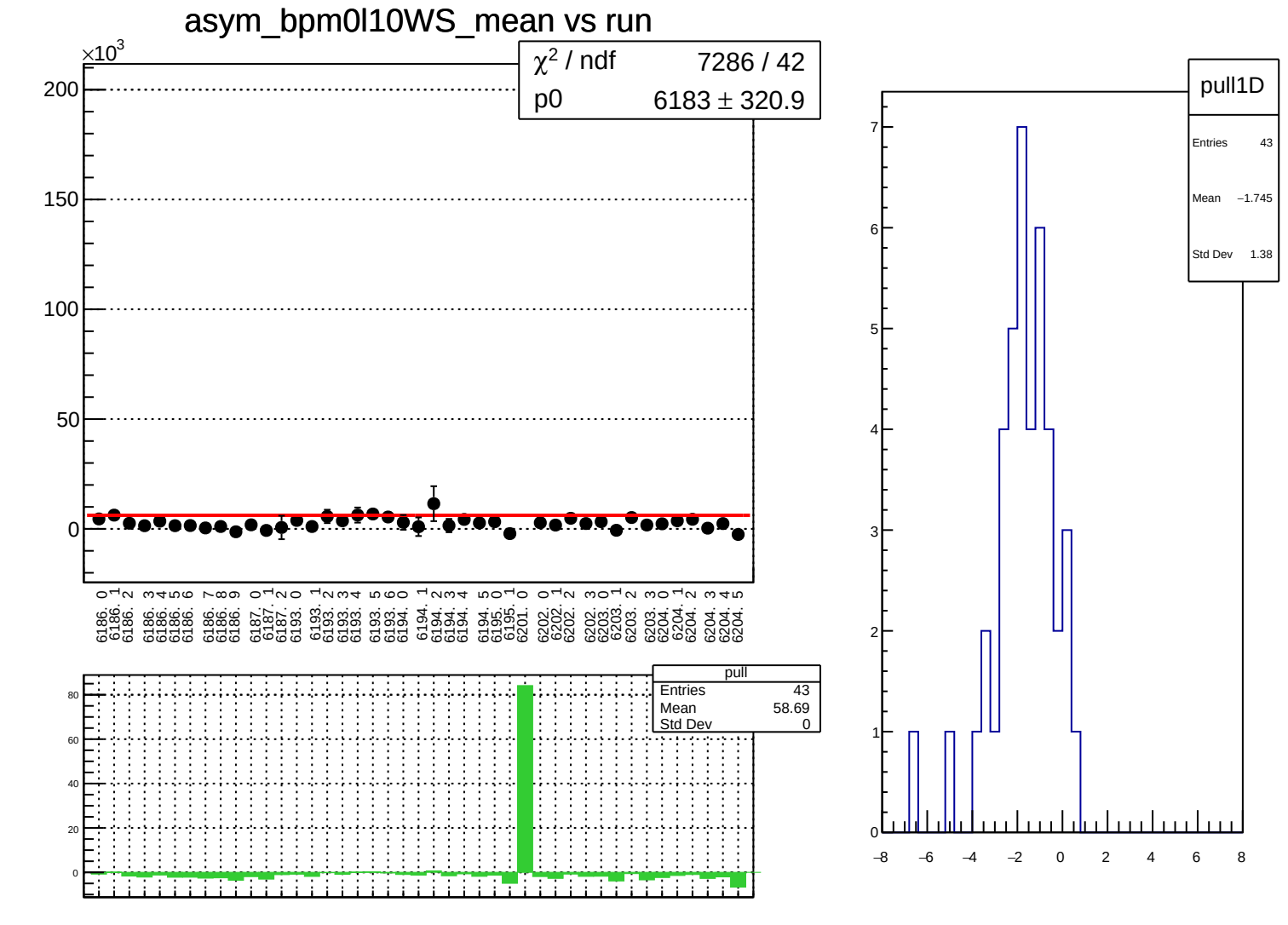

asym_bpm0l07WS_rms vs run
χ² / ndf 5.42e+04 / 42
p0 196.2 ± 0.2206
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

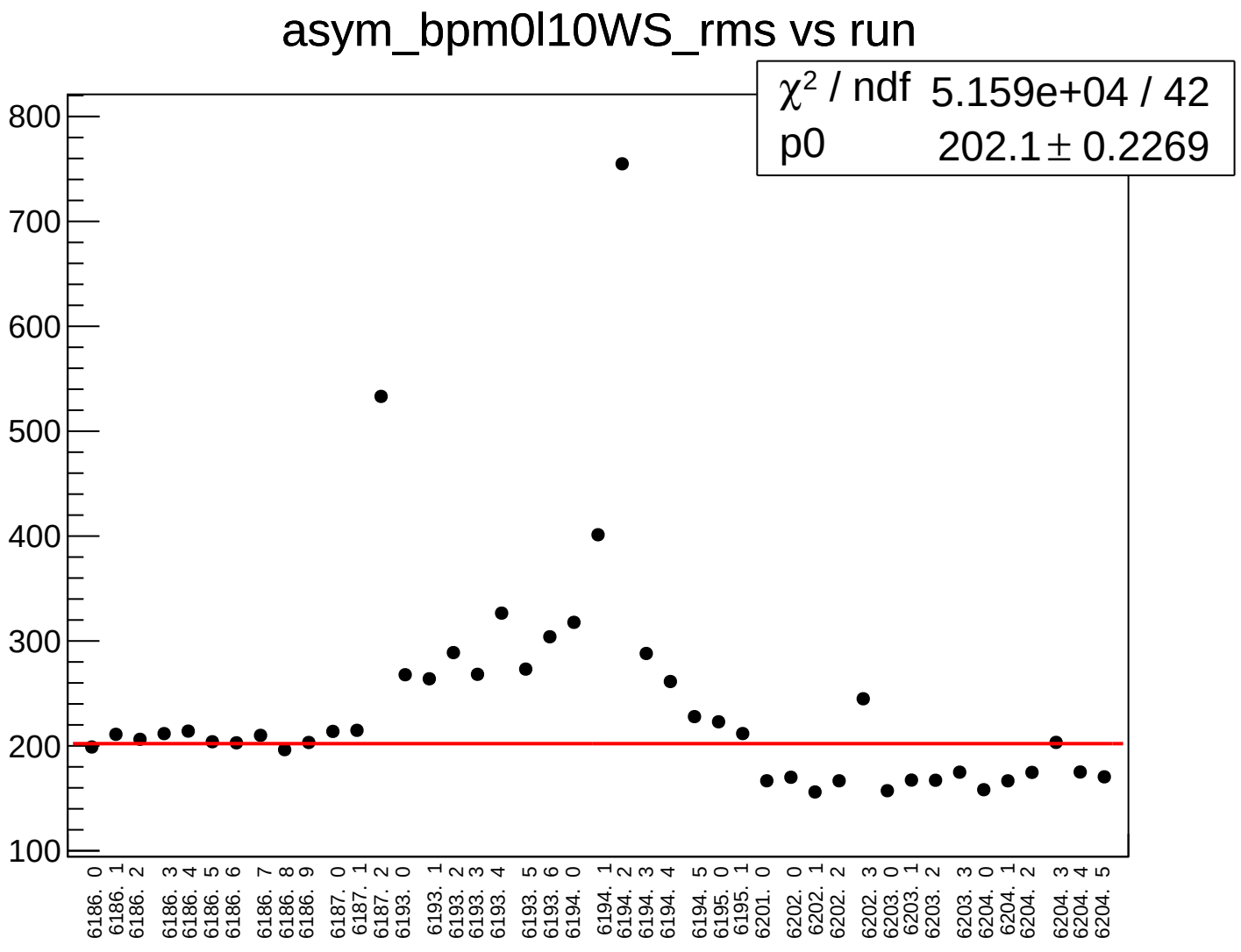

asym_bpm0l08WS_mean vs run
×10^3
χ^2 / ndf 8179 / 42
p0 6157 ± 307.5
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 63.7
Std Dev 0
80
60
40
20
0
pull1D
Entries 43
Mean −1.87
Std Dev 1.435
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

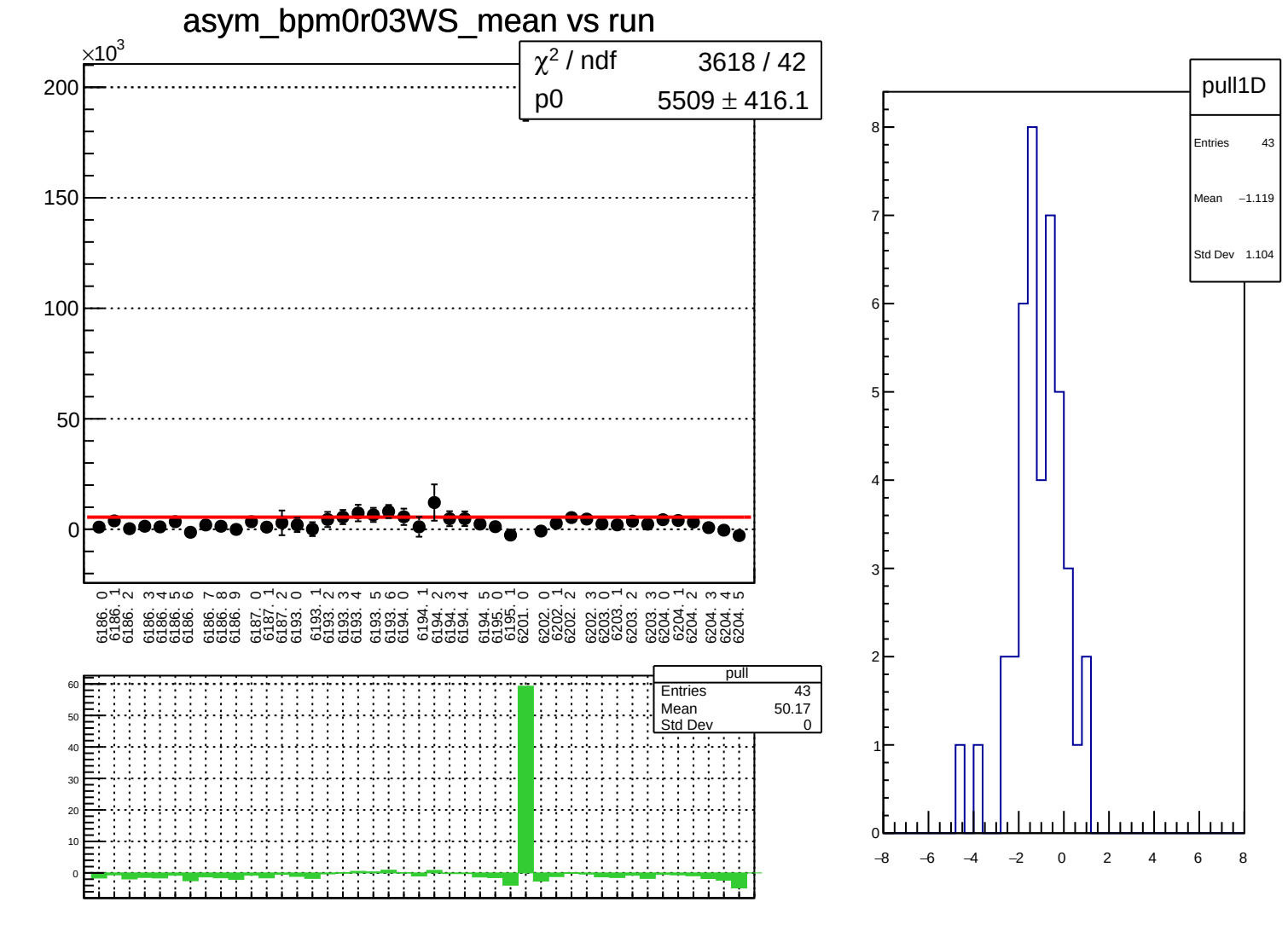

asym_bpm0l08WS_rms vs run
χ² / ndf 5.583e+04 / 42
p0 193.2 ± 0.2175
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

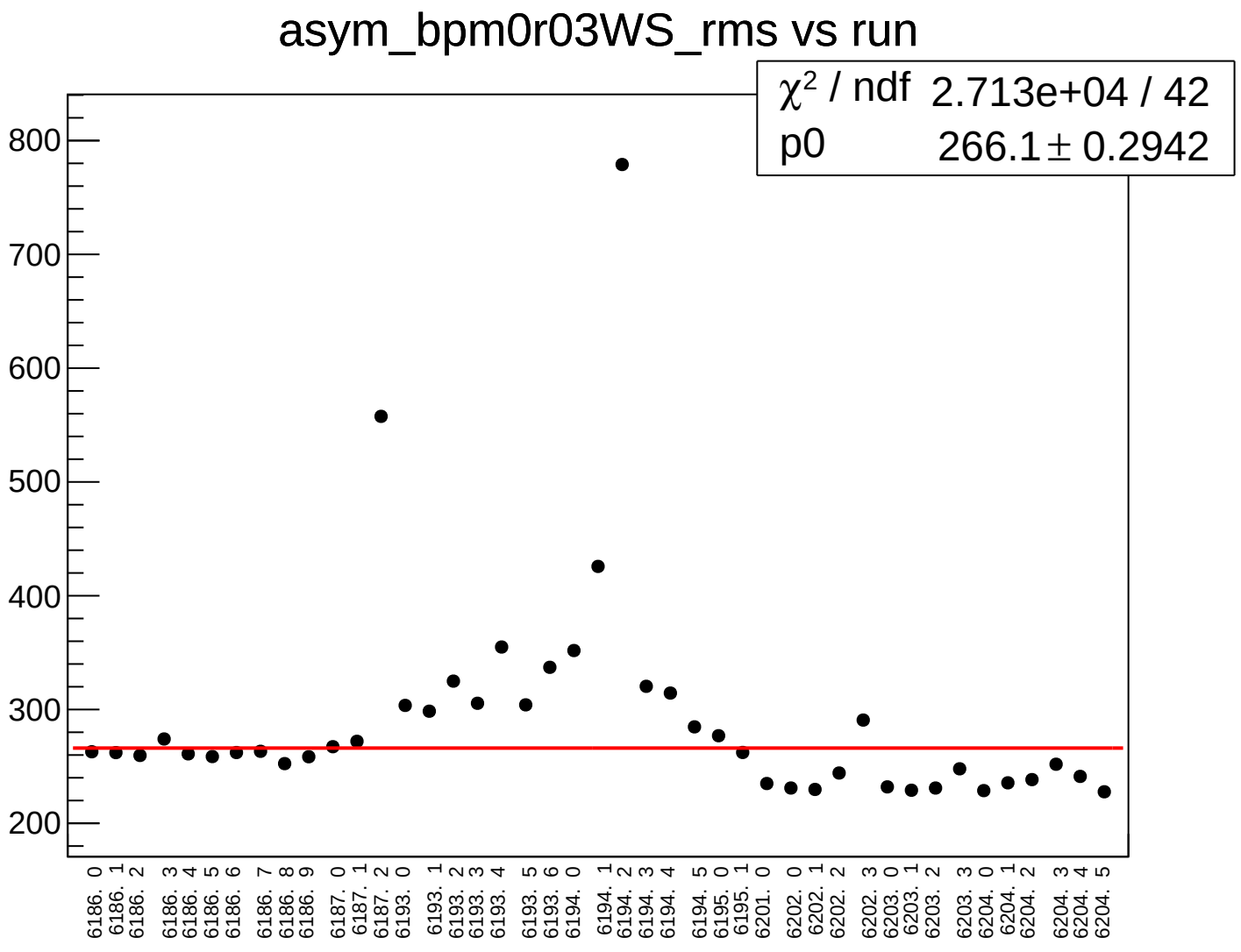

asym_bpm0l09WS_mean vs run
×10^3
χ^2 / ndf 7775 / 42
p0 6172 ± 314.3
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 60.15
Std Dev 0
80
60
40
20
0
pull1D
Entries 43
Mean −1.802
Std Dev 1.489
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

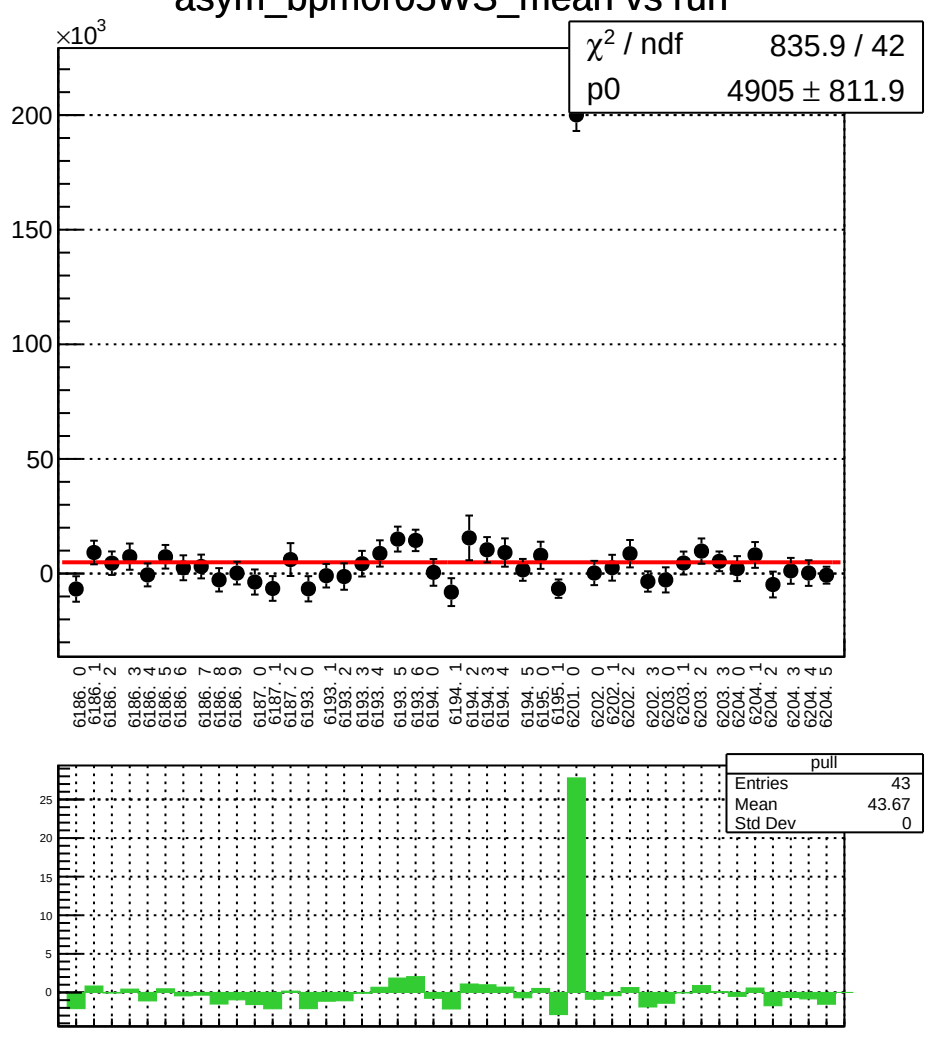

asym_bpm0l09WS_rms vs run
χ² / ndf 5.347e+04 / 42
p0 197.8 ± 0.2222
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

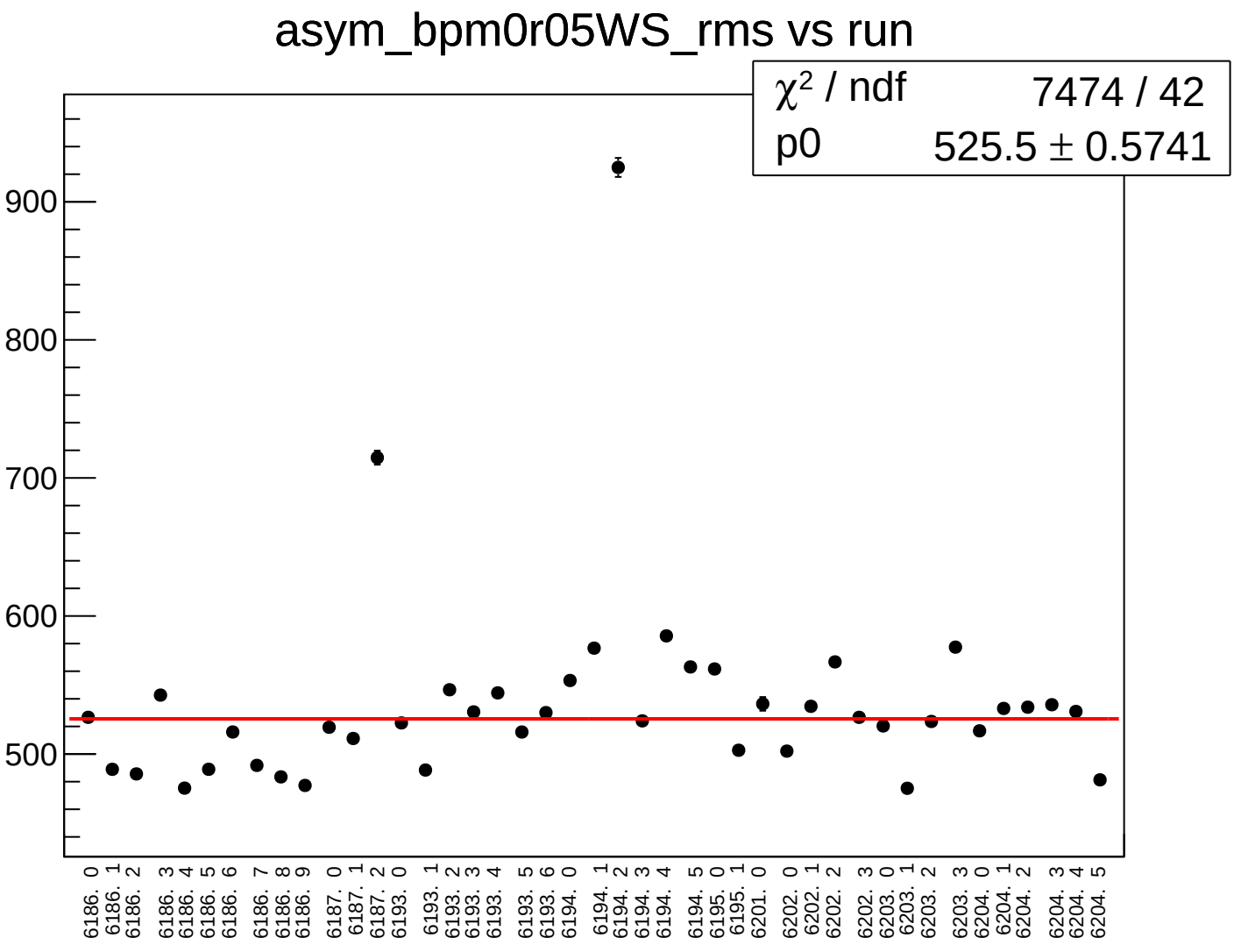

asym_bpm0l10WS_mean vs run
×10^3
χ^2 / ndf 7286 / 42
p0 6183 ± 320.9
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 58.69
Std Dev 0
80
60
40
20
0
pull1D
Entries 43
Mean −1.745
Std Dev 1.38
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

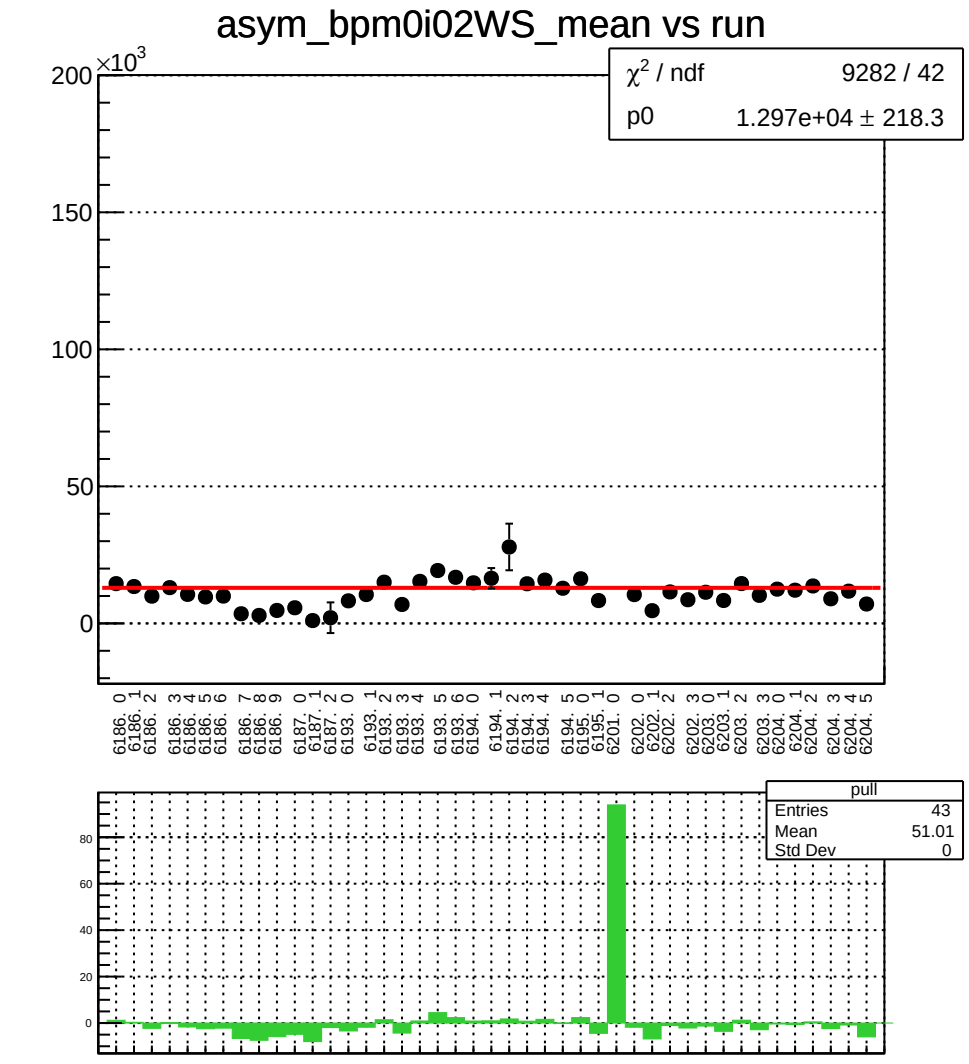

asym_bpm0l10WS_rms vs run
χ² / ndf 5.159e+04 / 42
p0 202.1 ± 0.2269
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

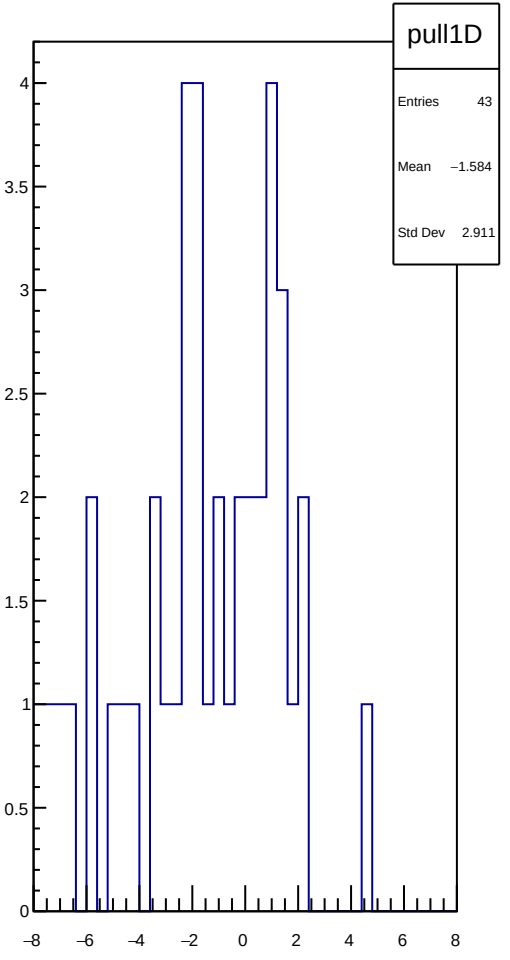

asym_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 3618 / 42
p0 5509 ± 416.1
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 50.17
Std Dev 0
60
50
40
30
20
10
0
pull1D
Entries 43
Mean −1.119
Std Dev 1.104
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

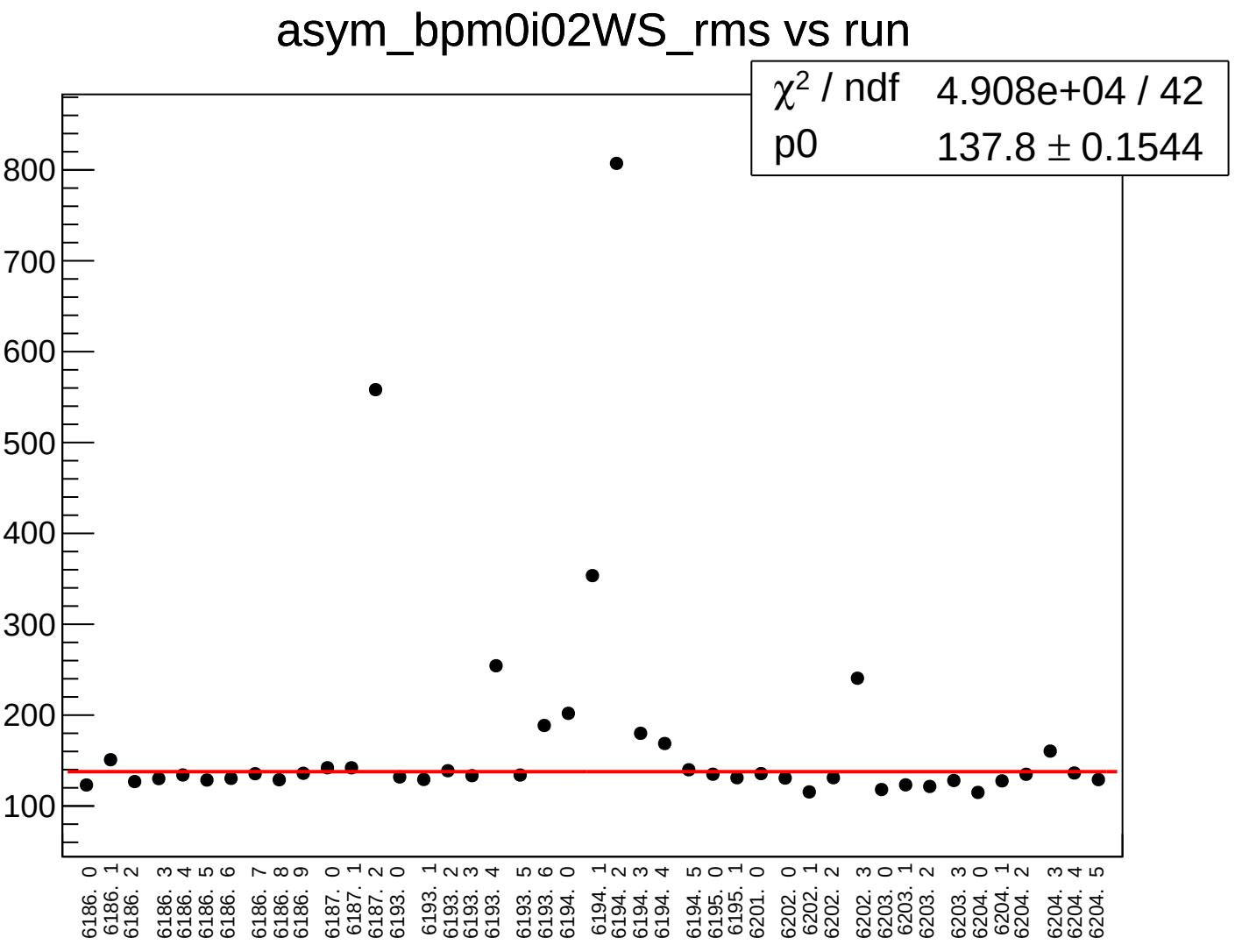

asym_bpm0r03WS_rms vs run
χ² / ndf 2.713e+04 / 42
p0 266.1 ± 0.2942
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

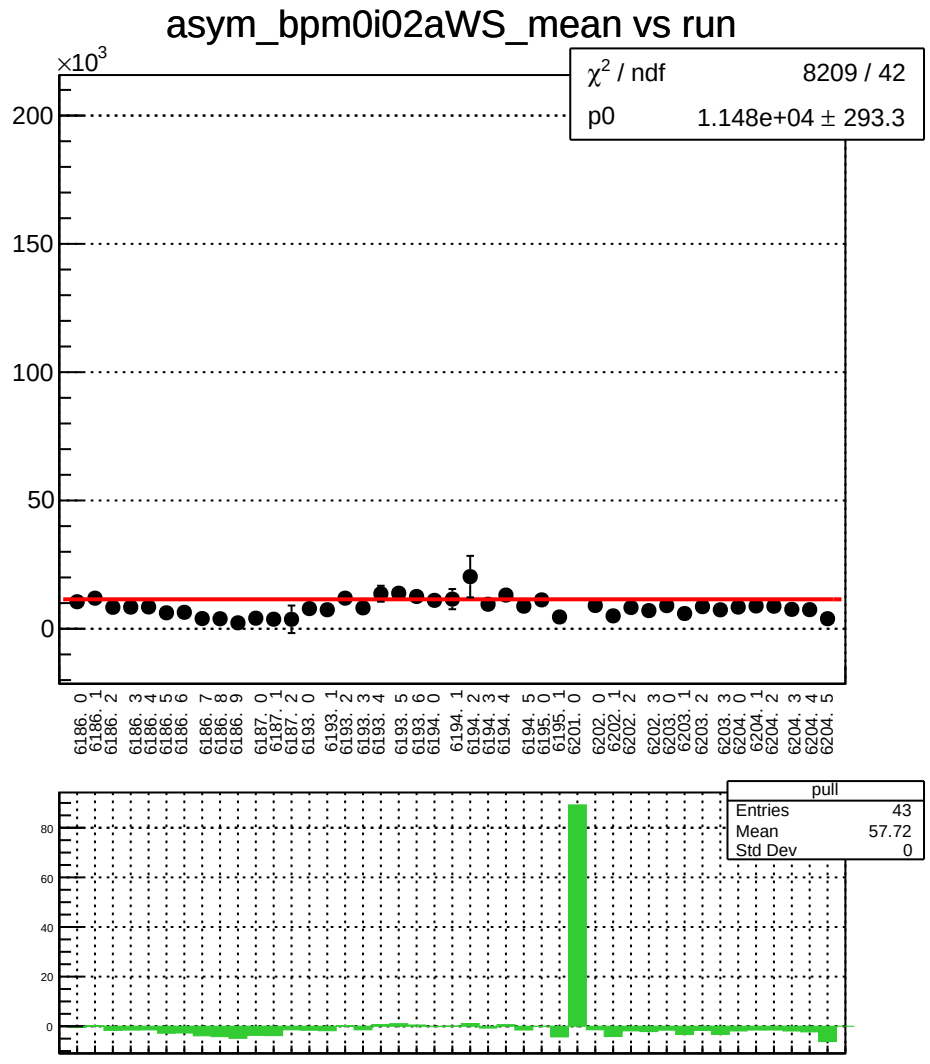

asym_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 835.9 / 42
p0 4905 ± 811.9
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 43.67
Std Dev 0
25
20
15
10
5
0
pull1D
Entries 43
Mean −0.4529
Std Dev 1.144
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

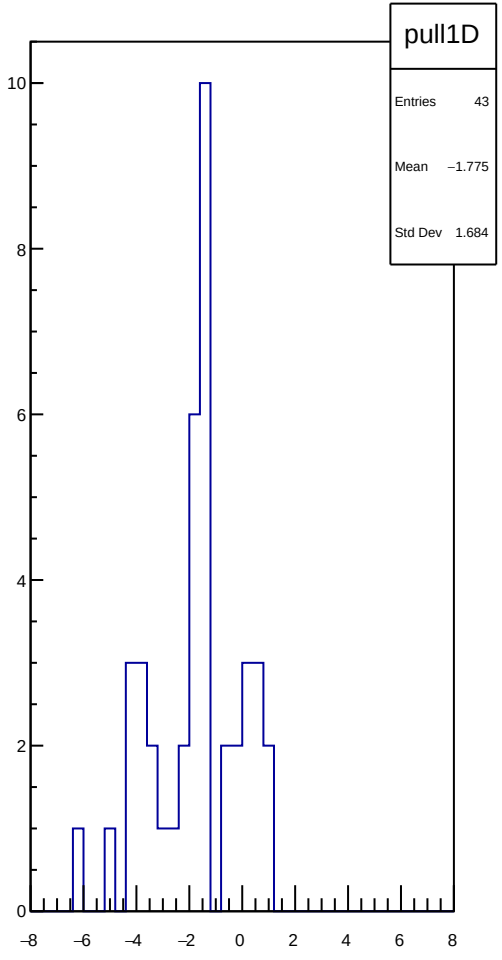

asym_bpm0r05WS_rms vs run
χ² / ndf 7474 / 42
p0 525.5 ± 0.5741
900
800
700
600
500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

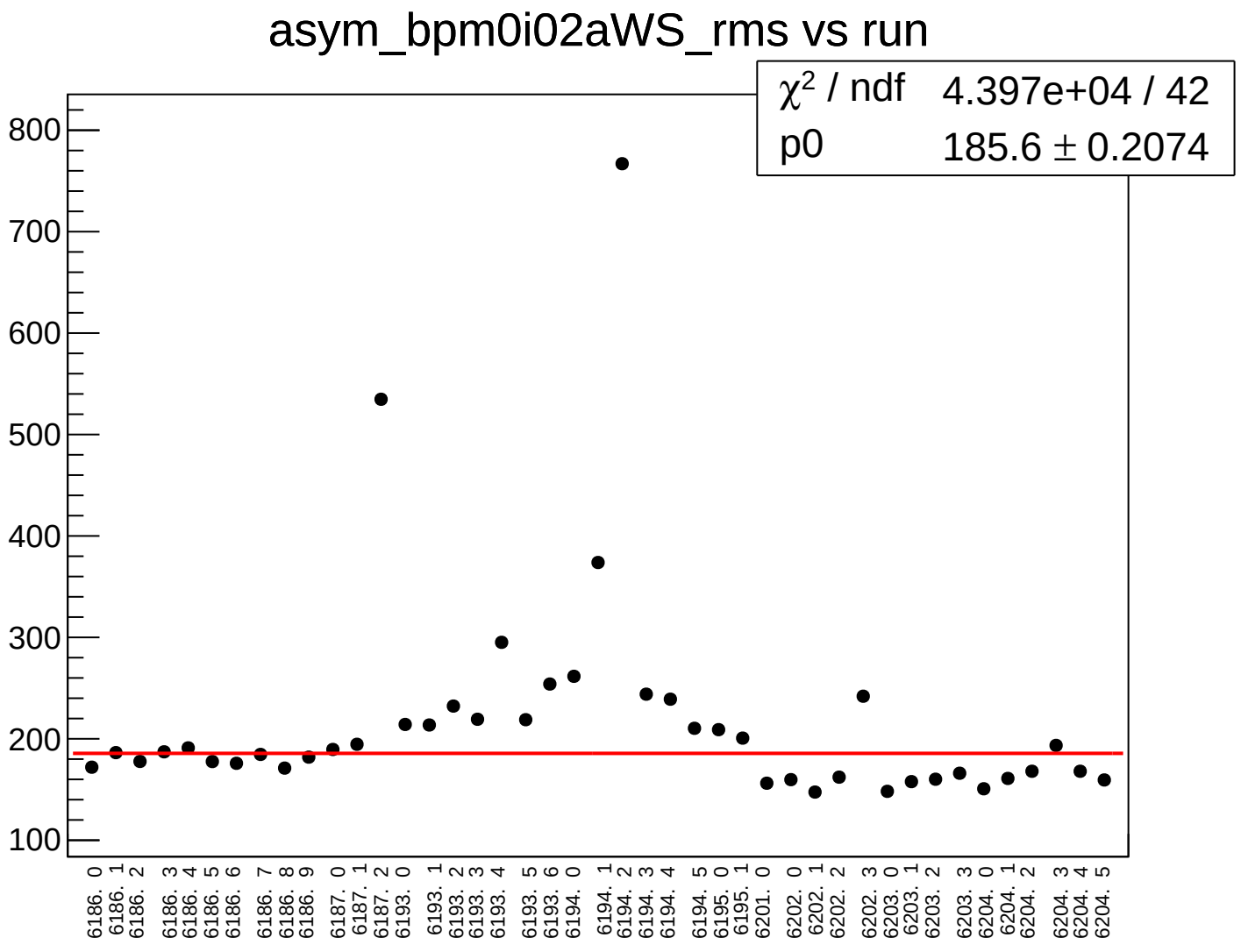

asym_bpm0i02WS_mean vs run
χ² / ndf 9282 / 42
p0 1.297e+04 ± 218.3
×10³
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 51.01
Std Dev 0
80
60
40
20
0

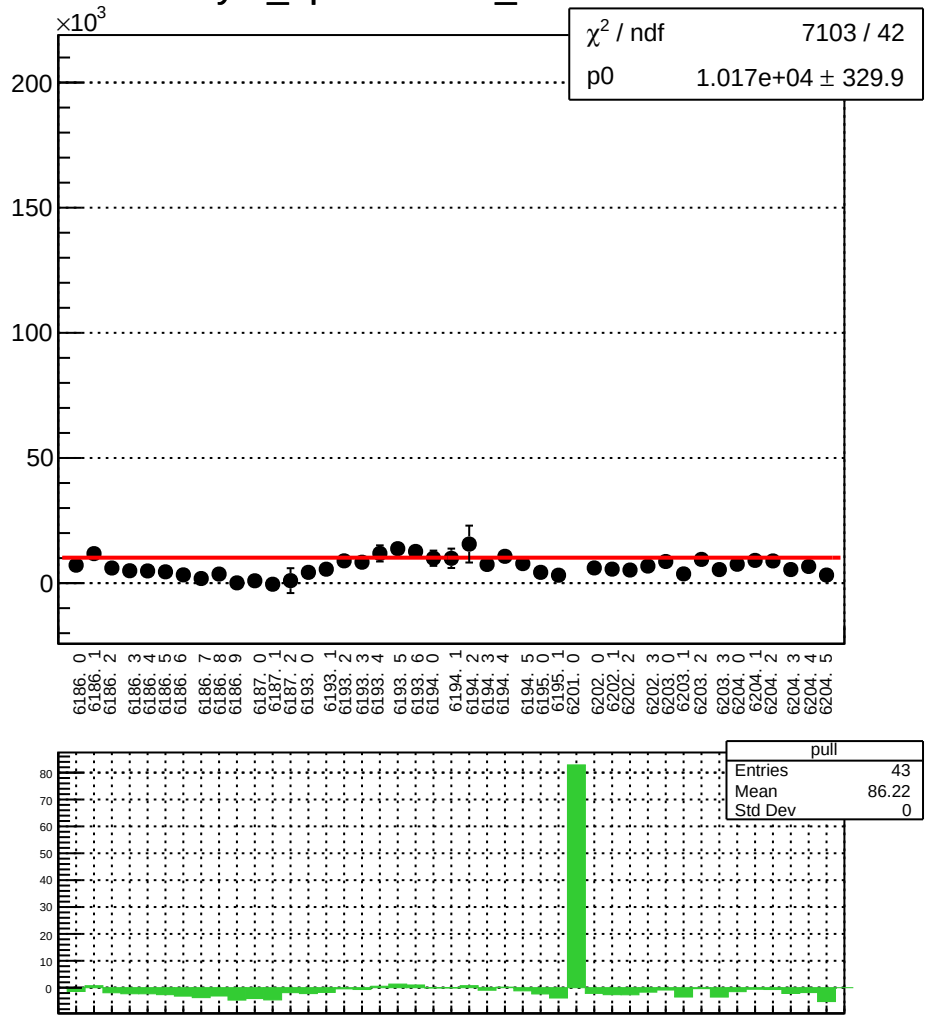

pull1D
Entries 43
Mean −1.584
Std Dev 2.911
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

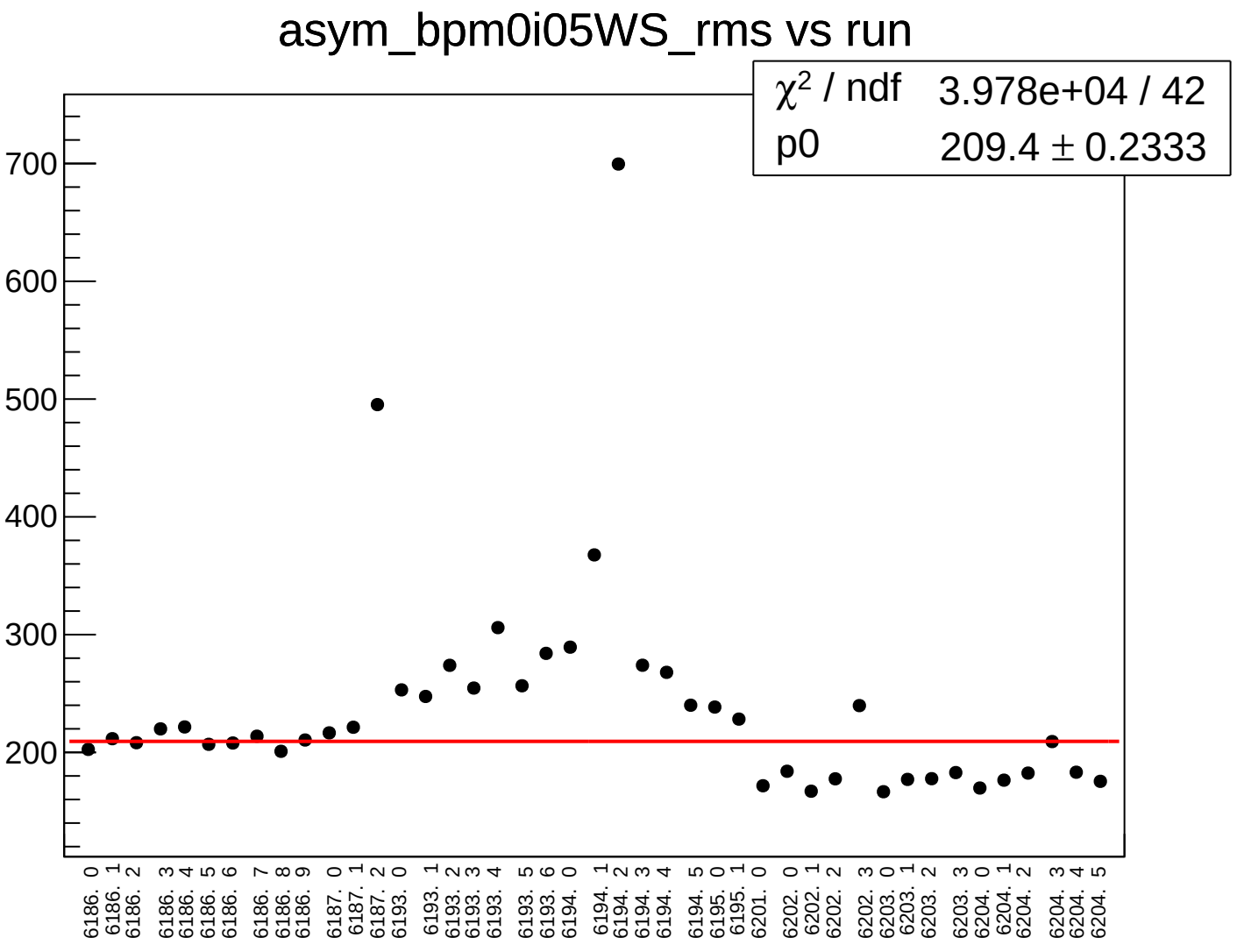

asym_bpm0i02WS_rms vs run
χ² / ndf 4.908e+04 / 42
p0 137.8 ± 0.1544
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

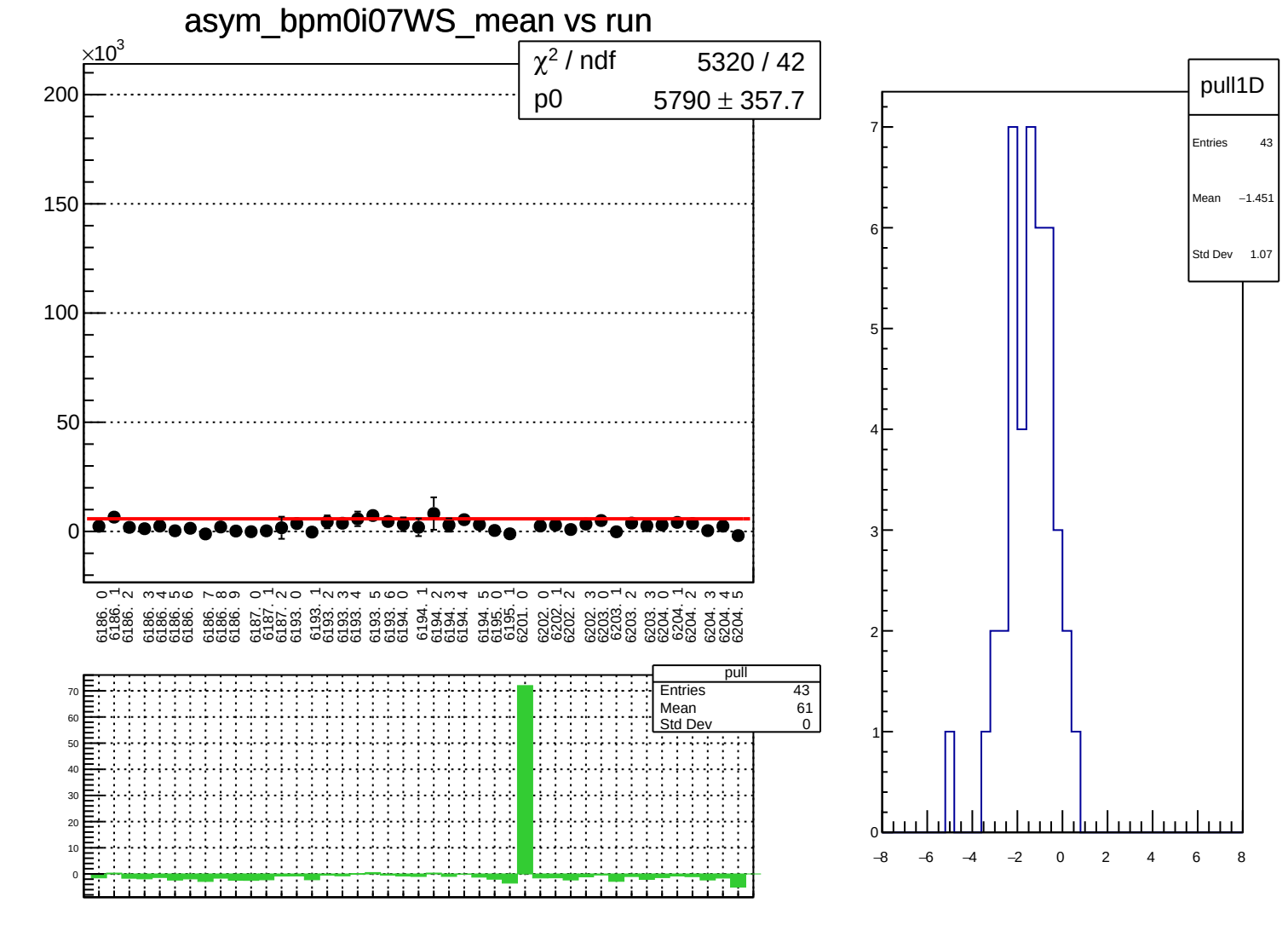

asym_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 8209 / 42
p0 1.148e+04 ± 293.3
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 57.72
Std Dev 0
80
60
40
20
0

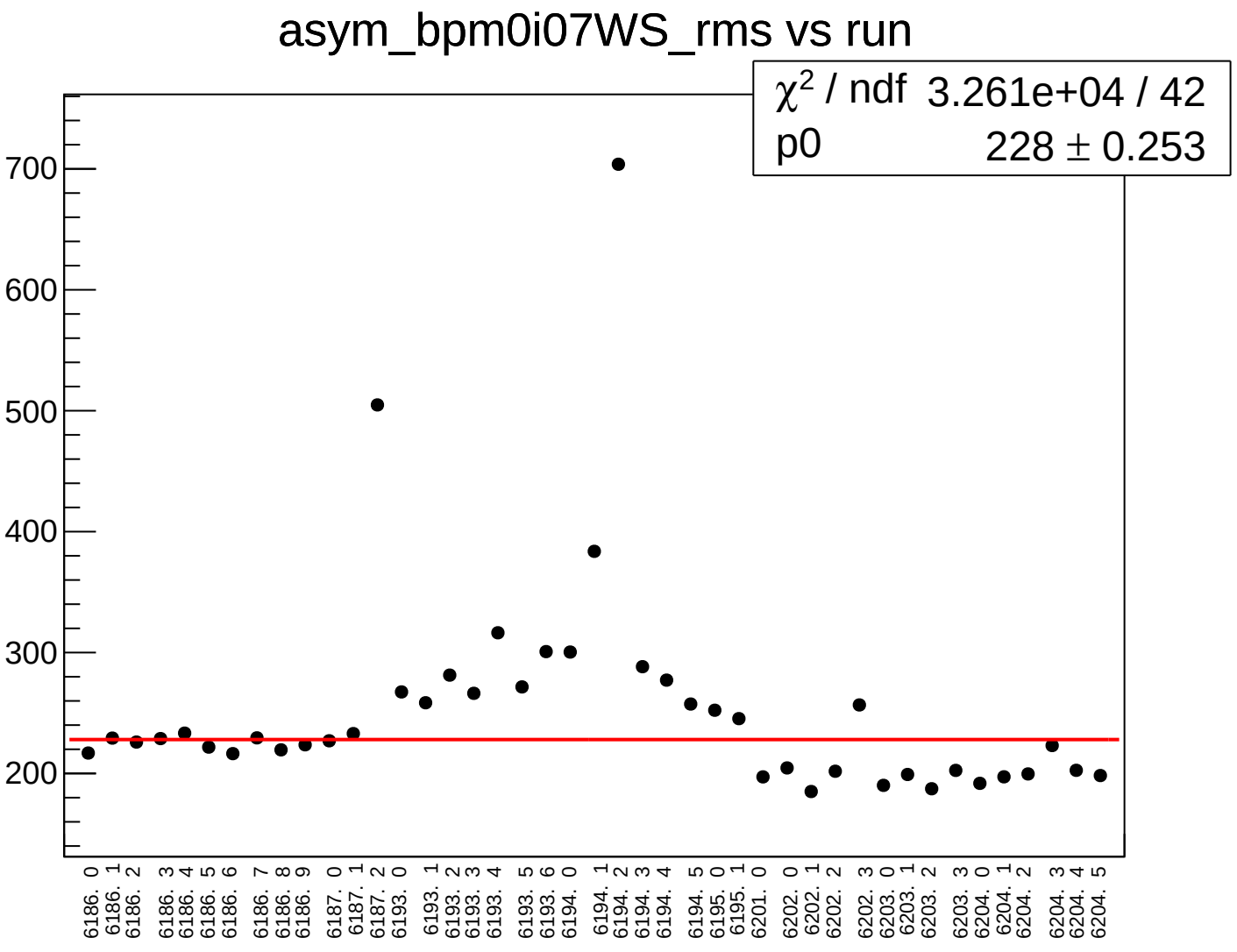

pull1D
Entries 43
Mean −1.775
Std Dev 1.684
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

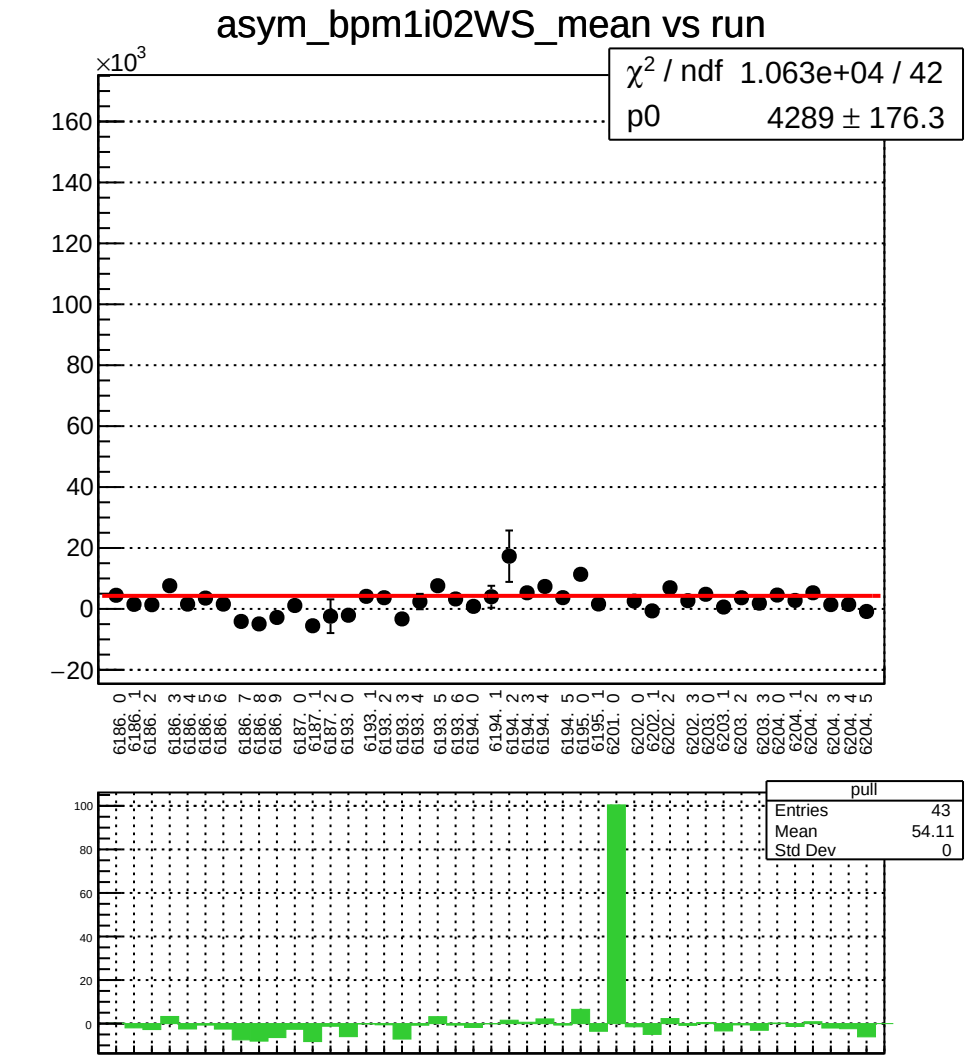

asym_bpm0i02aWS_rms vs run
χ² / ndf 4.397e+04 / 42
p0 185.6 ± 0.2074
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

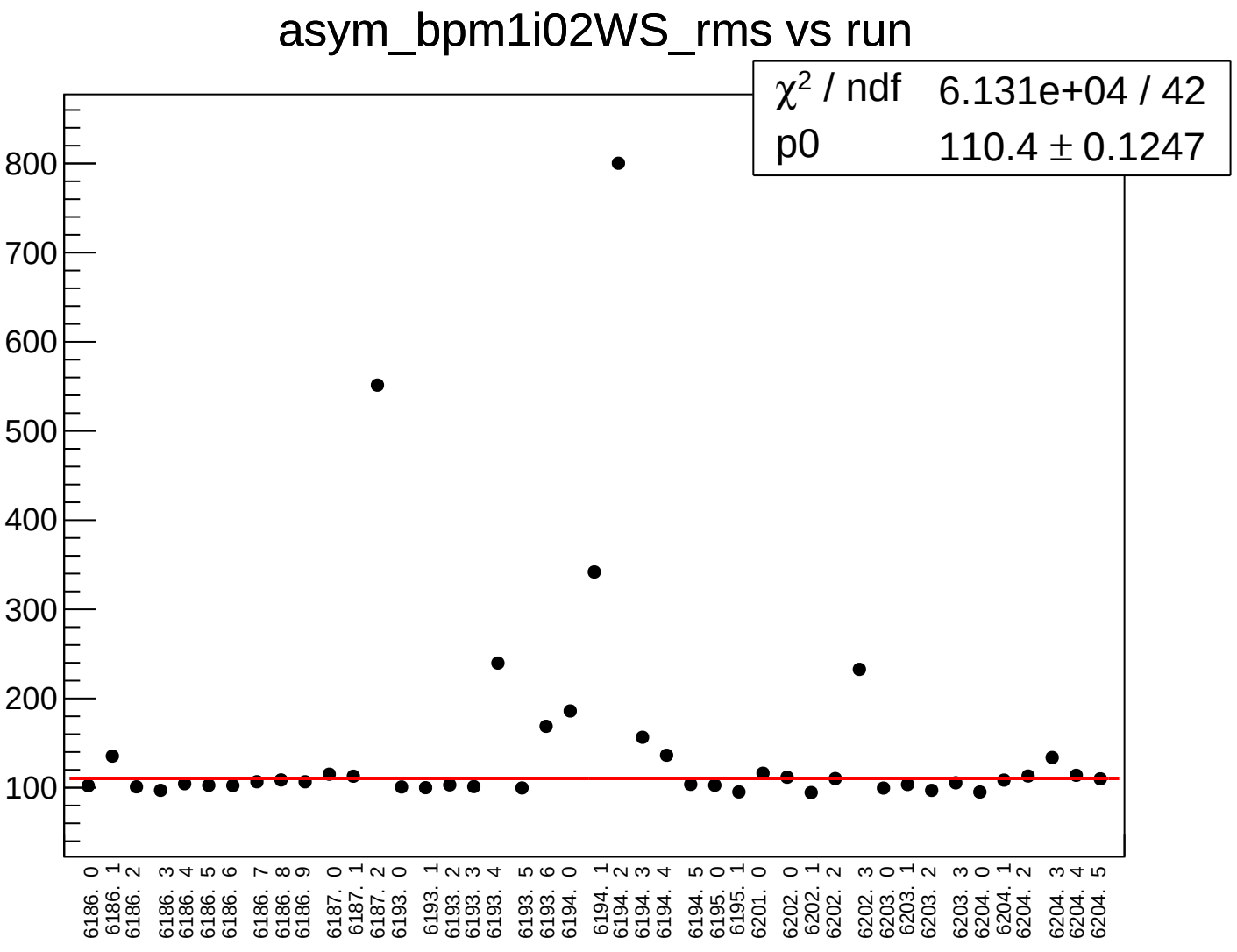

asym_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 7103 / 42
p0 1.017e+04 ± 329.9
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 86.22
Std Dev 0
80
70
60
50
40
30
20
10
0
pull1D
Entries 43
Mean −1.748
Std Dev 1.601
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

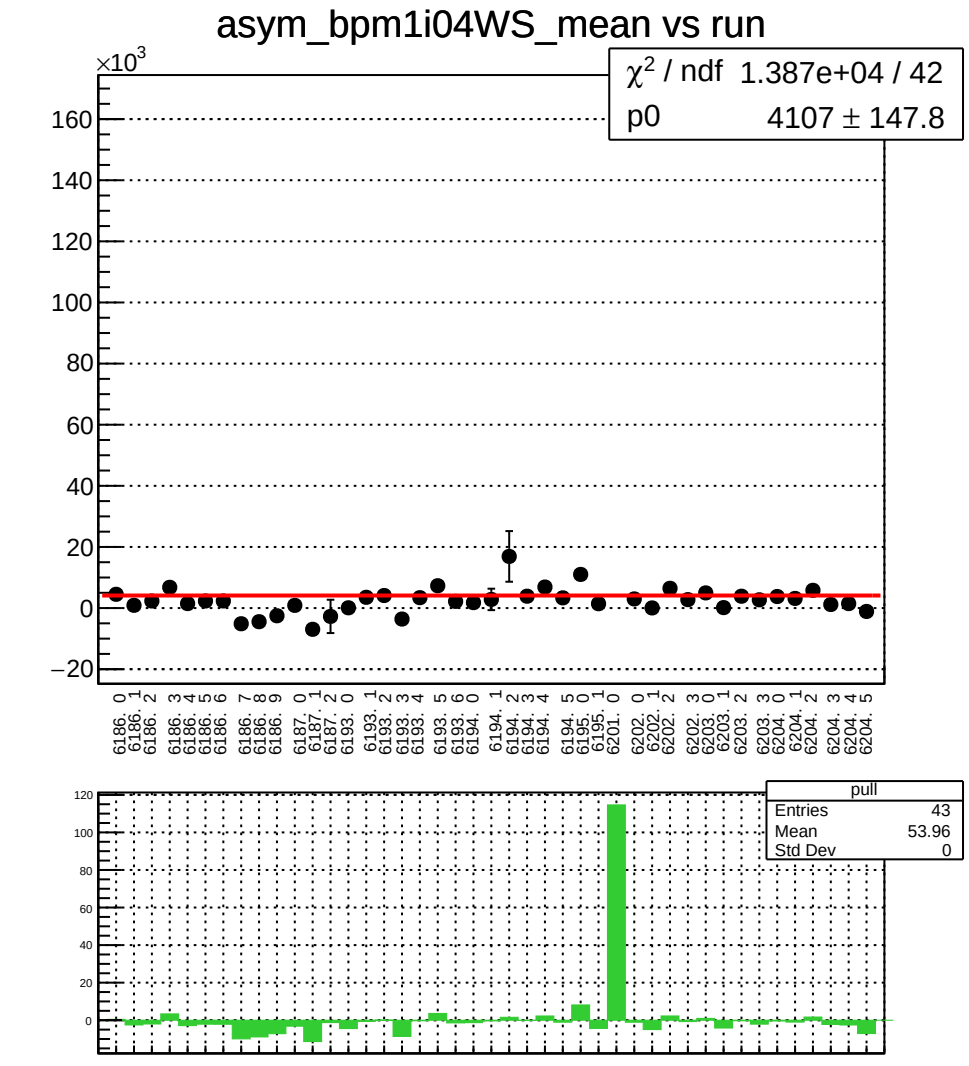

asym_bpm0i05WS_rms vs run
χ² / ndf 3.978e+04 / 42
p0 209.4 ± 0.2333
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

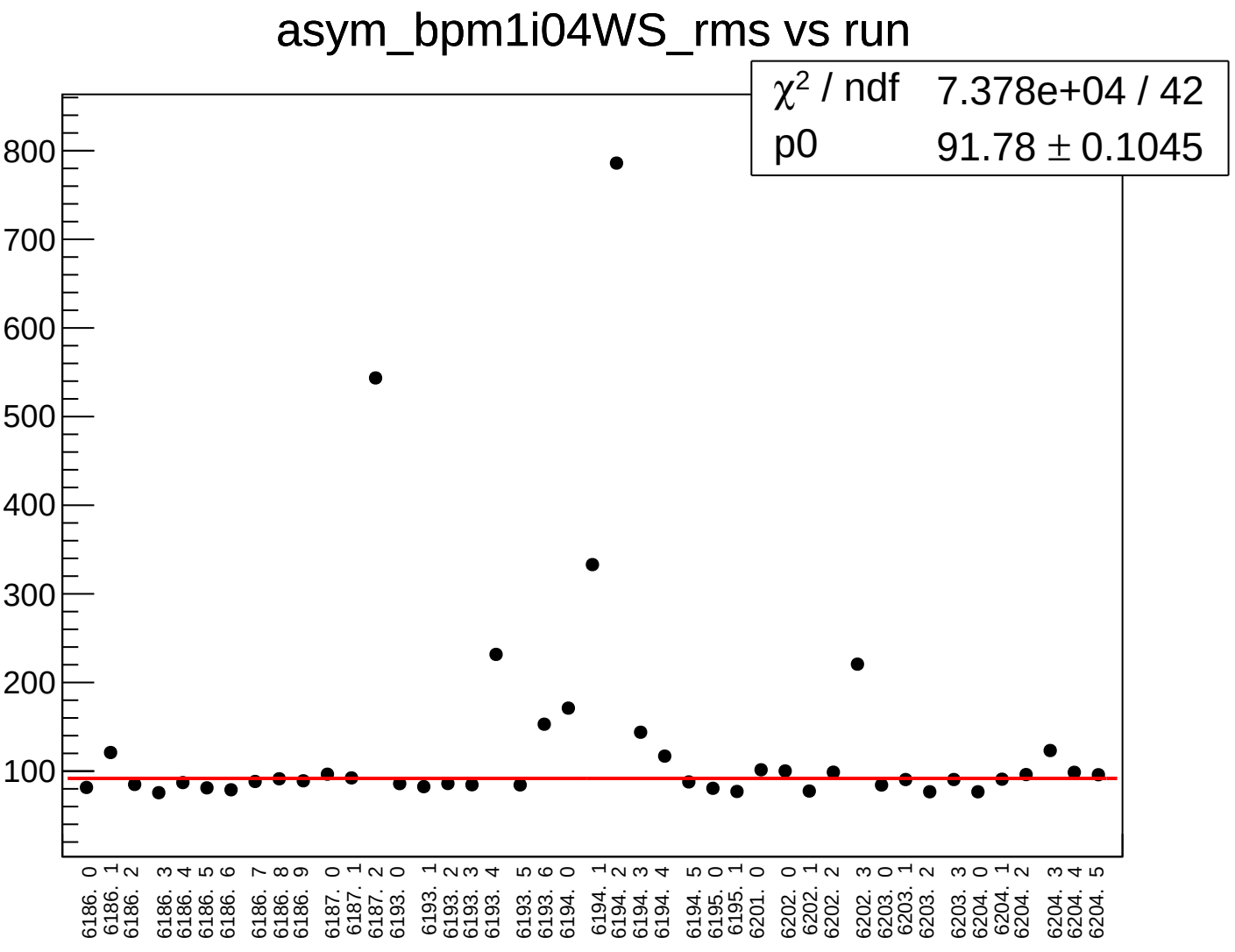

asym_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 5320 / 42
p0 5790 ± 357.7
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 61
Std Dev 0
70
60
50
40
30
20
10
0
pull1D
Entries 43
Mean −1.451
Std Dev 1.07
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

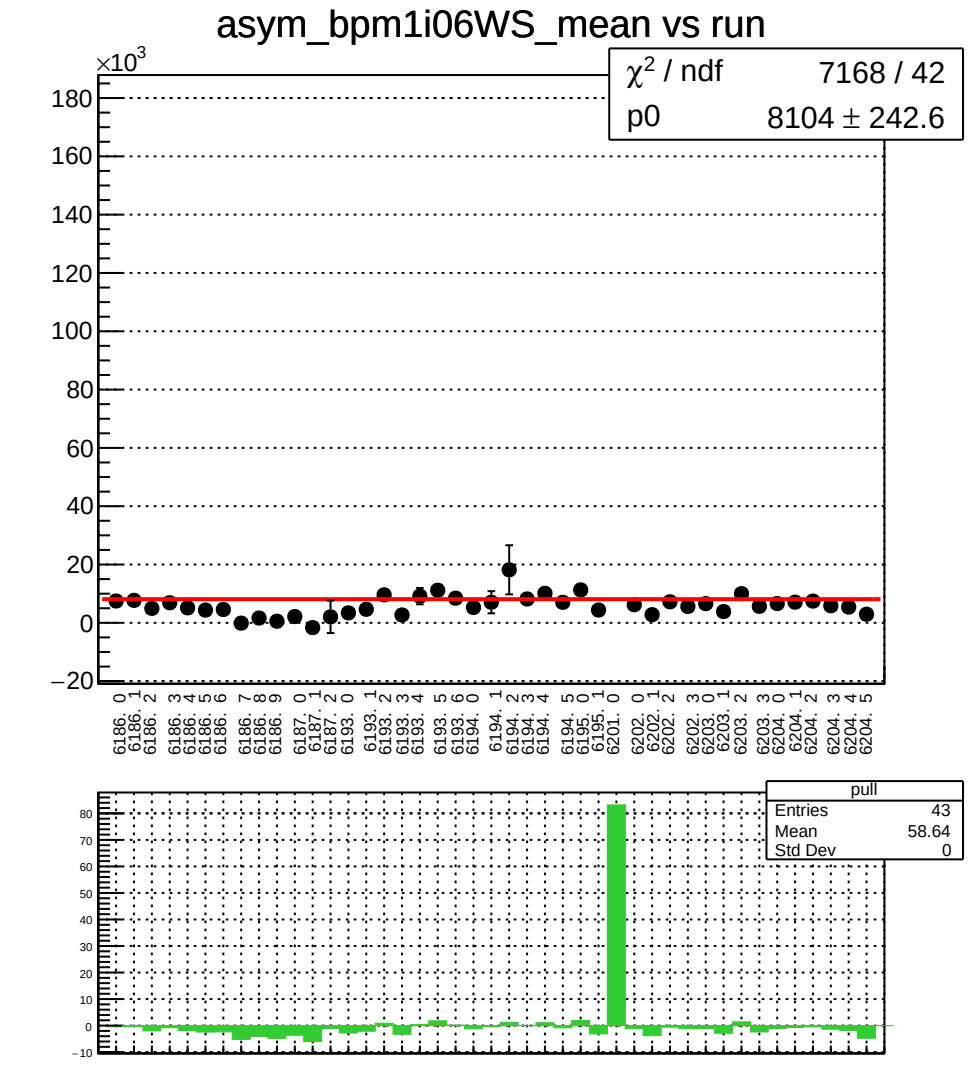

asym_bpm0i07WS_rms vs run
χ² / ndf 3.261e+04 / 42
p0 228 ± 0.253
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

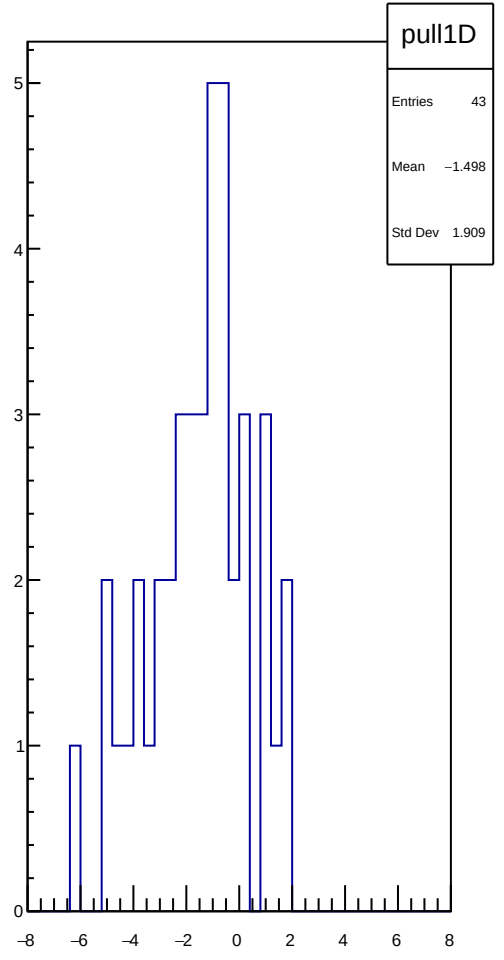

asym_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 1.063e+04 / 42
p0 4289 ± 176.3
160
140
120
100
80
60
40
20
0
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 54.11
Std Dev 0
100
80
60
40
20
0
pull1D
Entries 43
Mean −1.35
Std Dev 2.887
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

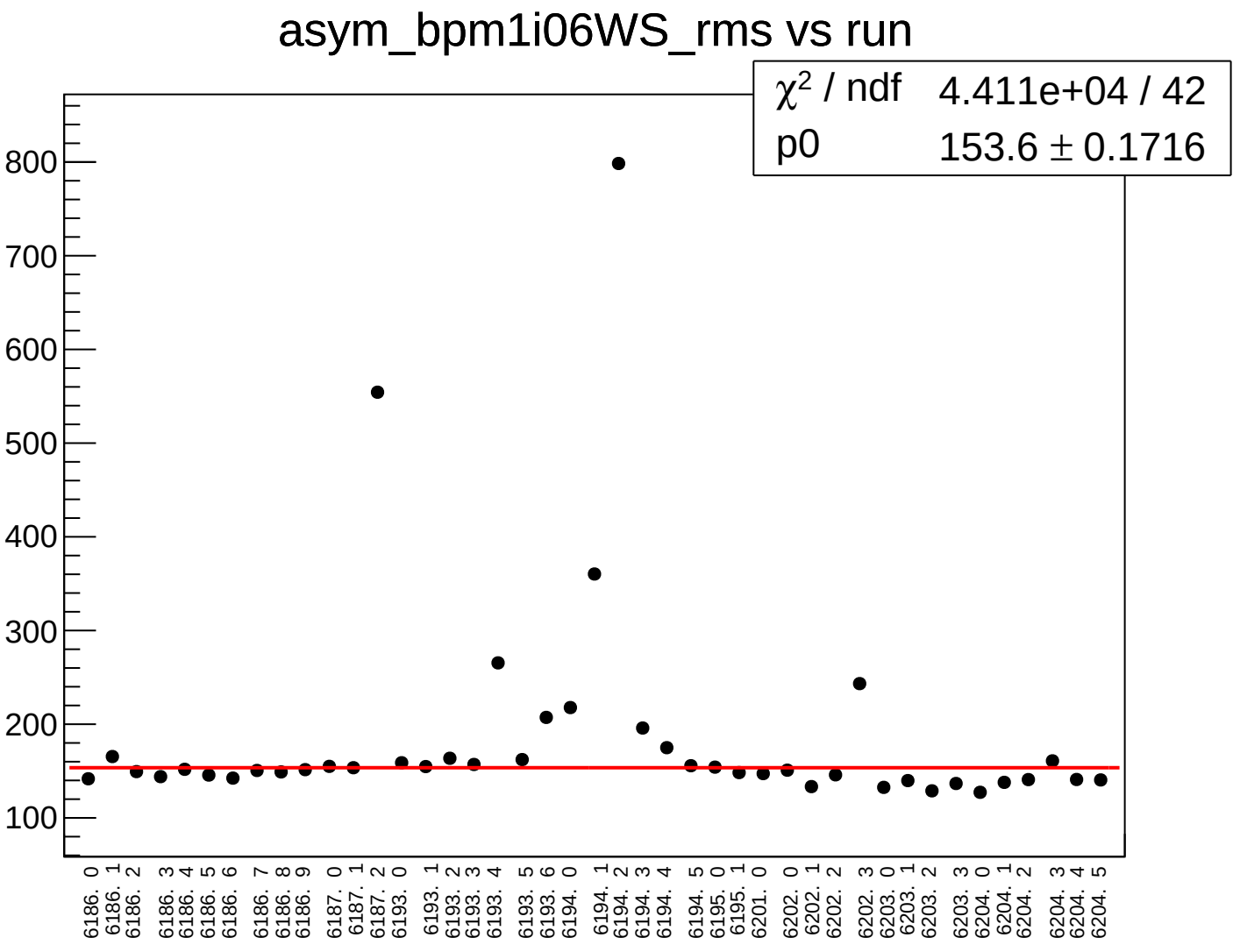

asym_bpm1i02WS_rms vs run
χ² / ndf 6.131e+04 / 42
p0 110.4 ± 0.1247
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

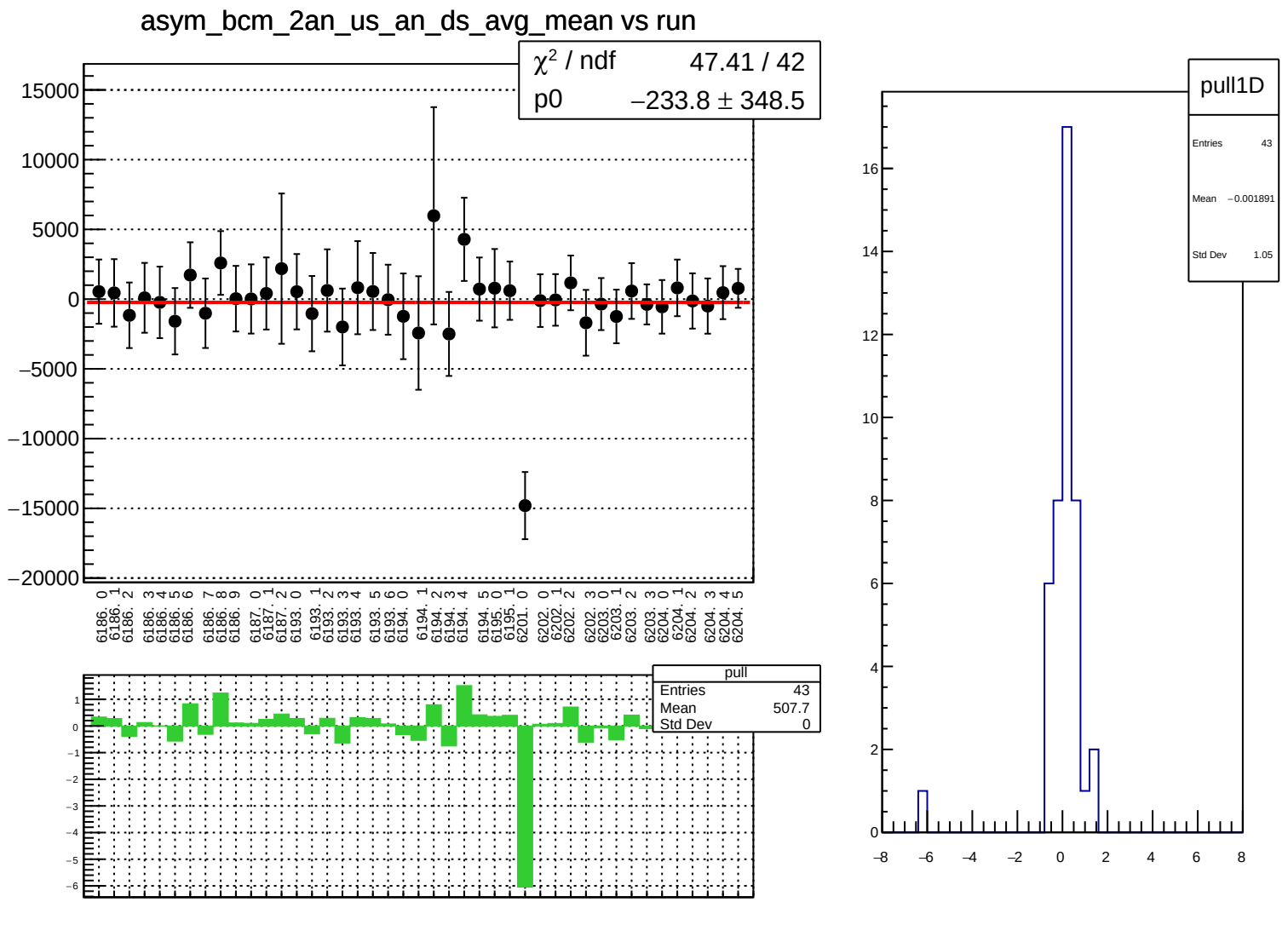

asym_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.387e+04 / 42
p0 4107 ± 147.8
160
140
120
100
80
60
40
20
0
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 53.96
Std Dev 0
120
100
80
60
40
20
0
pull1D
Entries 43
Mean −1.287
Std Dev 2.466
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

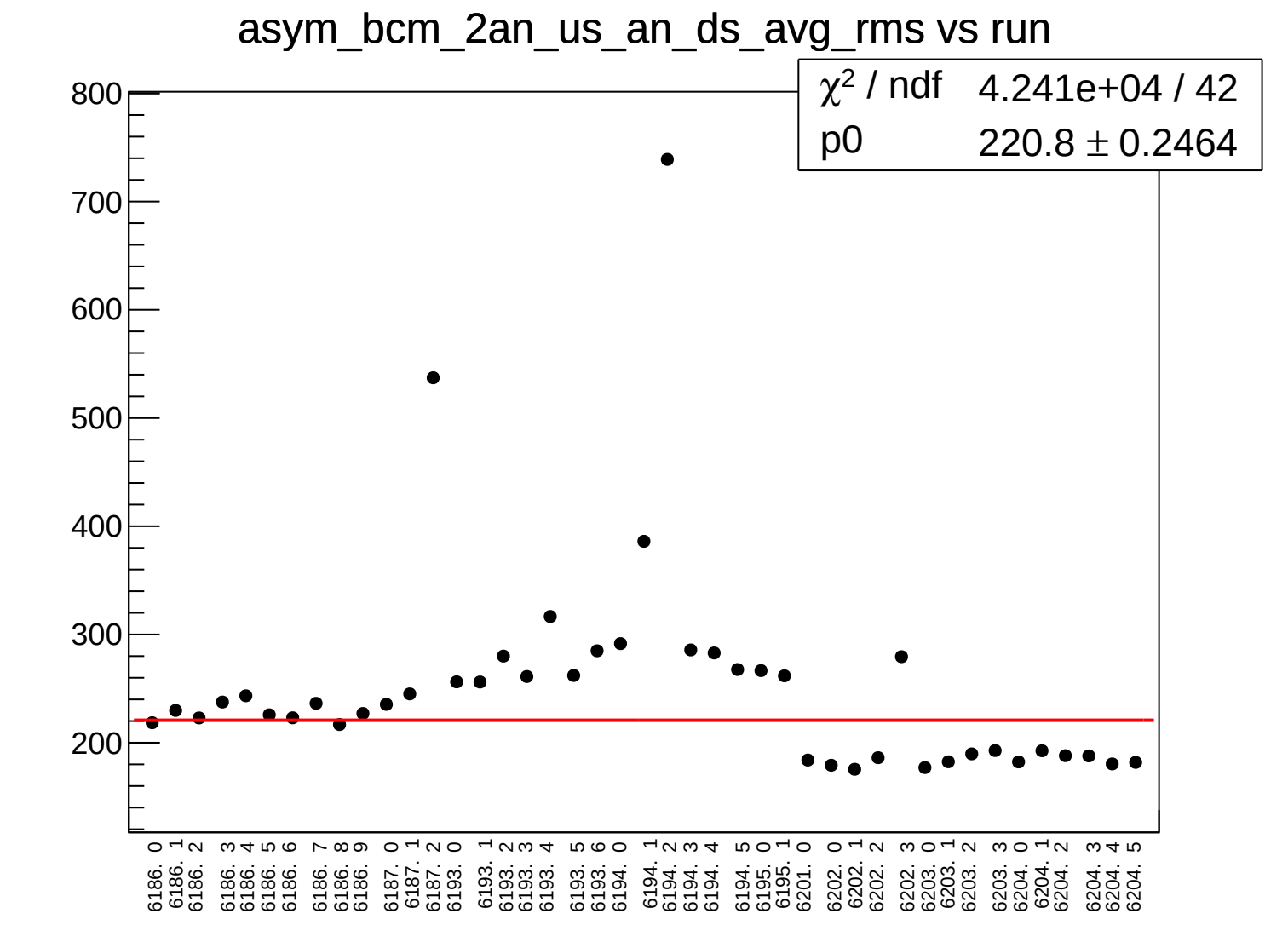

asym_bpm1i04WS_rms vs run
χ^2 / ndf 7.378e+04 / 42
p0 91.78 ± 0.1045
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

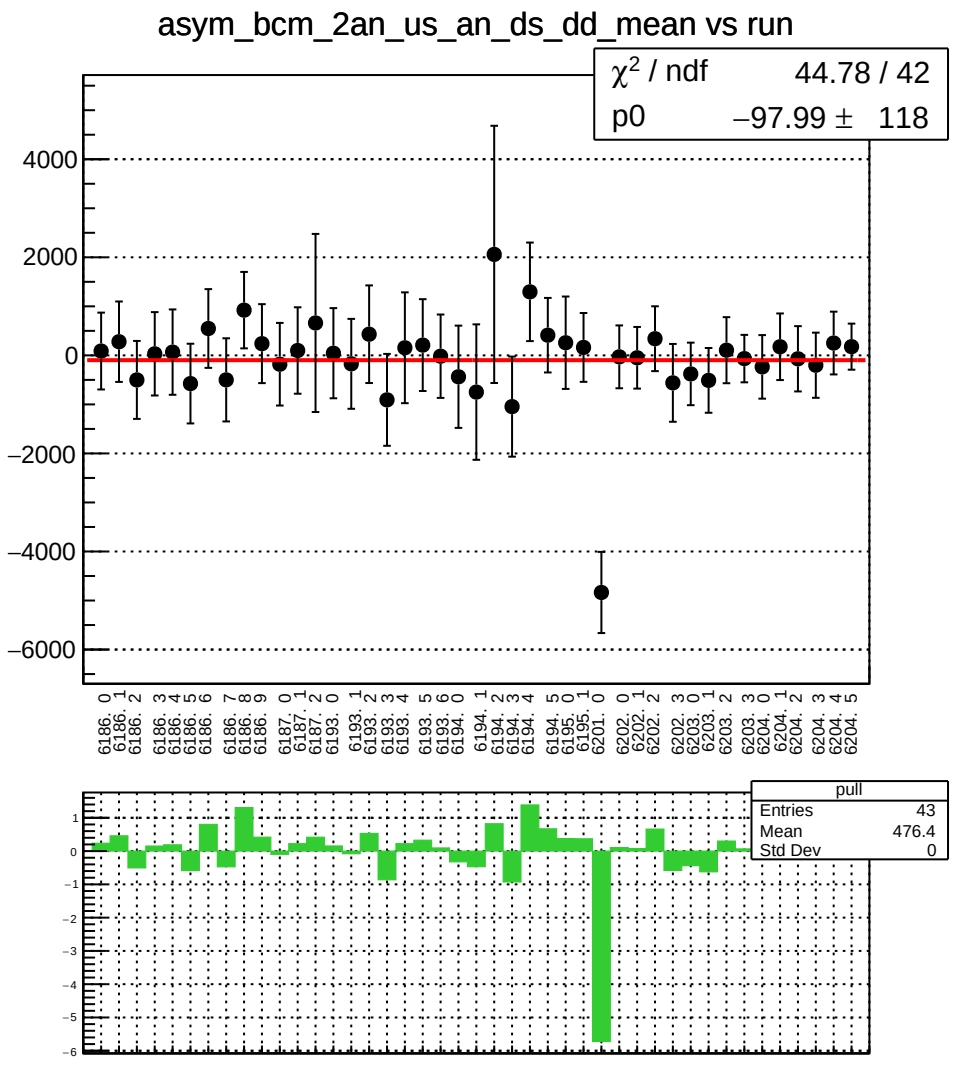

asym_bpm1i06WS_mean vs run
×10^3
χ^2 / ndf 7168 / 42
p0 8104 ± 242.6
pull
Entries 43
Mean 58.64
Std Dev 0

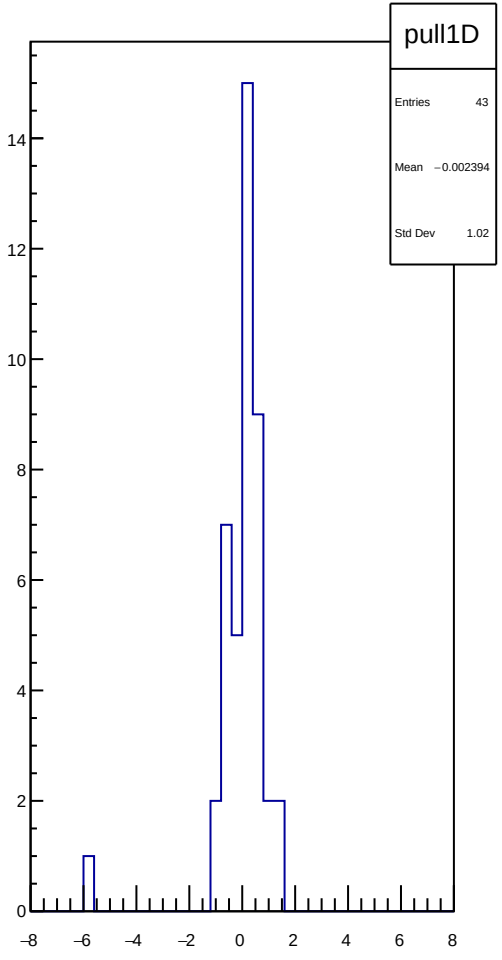

pull1D
Entries 43
Mean −1.498
Std Dev 1.909

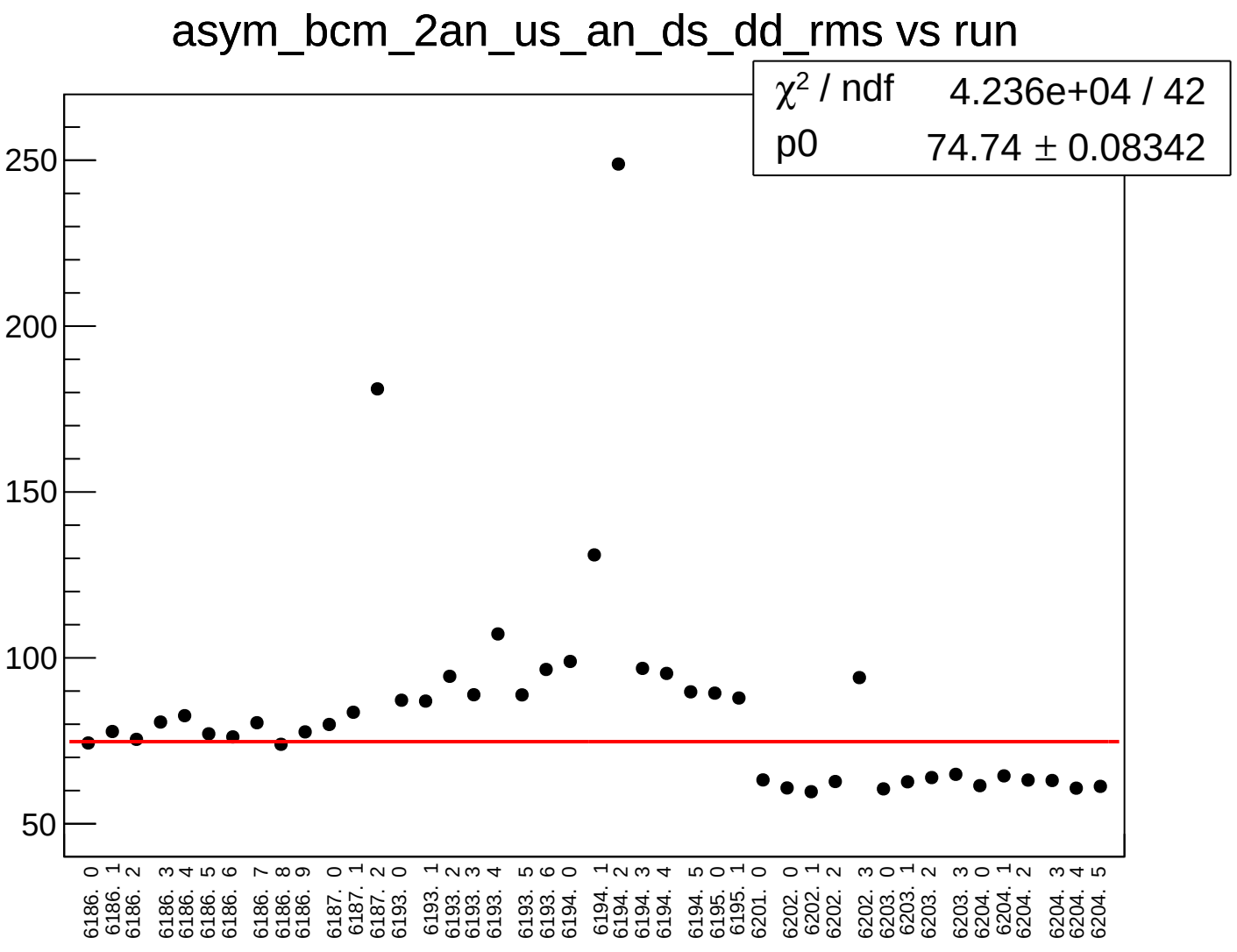

asym_bpm1i06WS_rms vs run
χ² / ndf 4.411e+04 / 42
p0 153.6 ± 0.1716
800
700
600
500
400
300
200
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

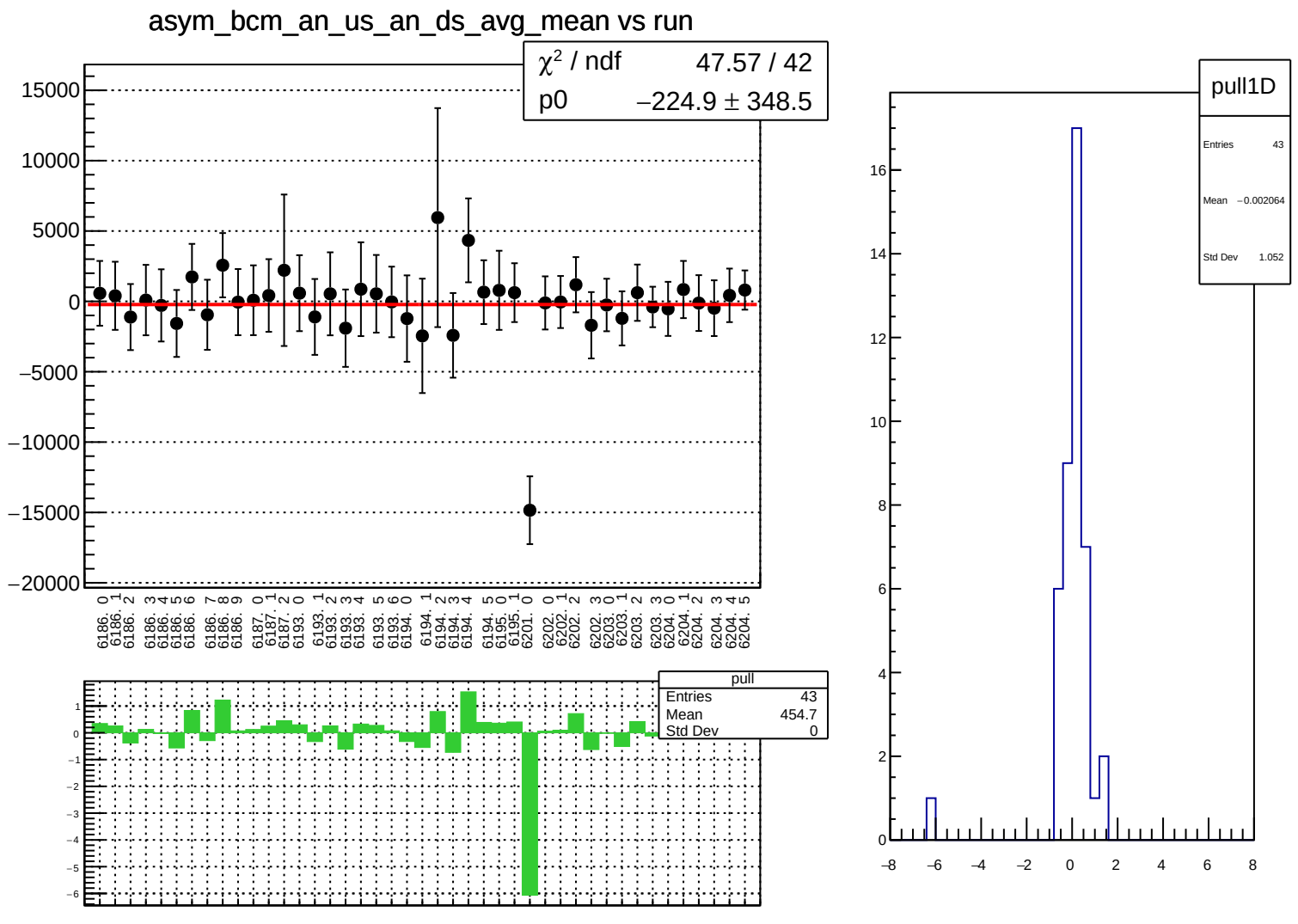

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 47.41 / 42
p0 −233.8 ± 348.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 507.7
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.001891
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

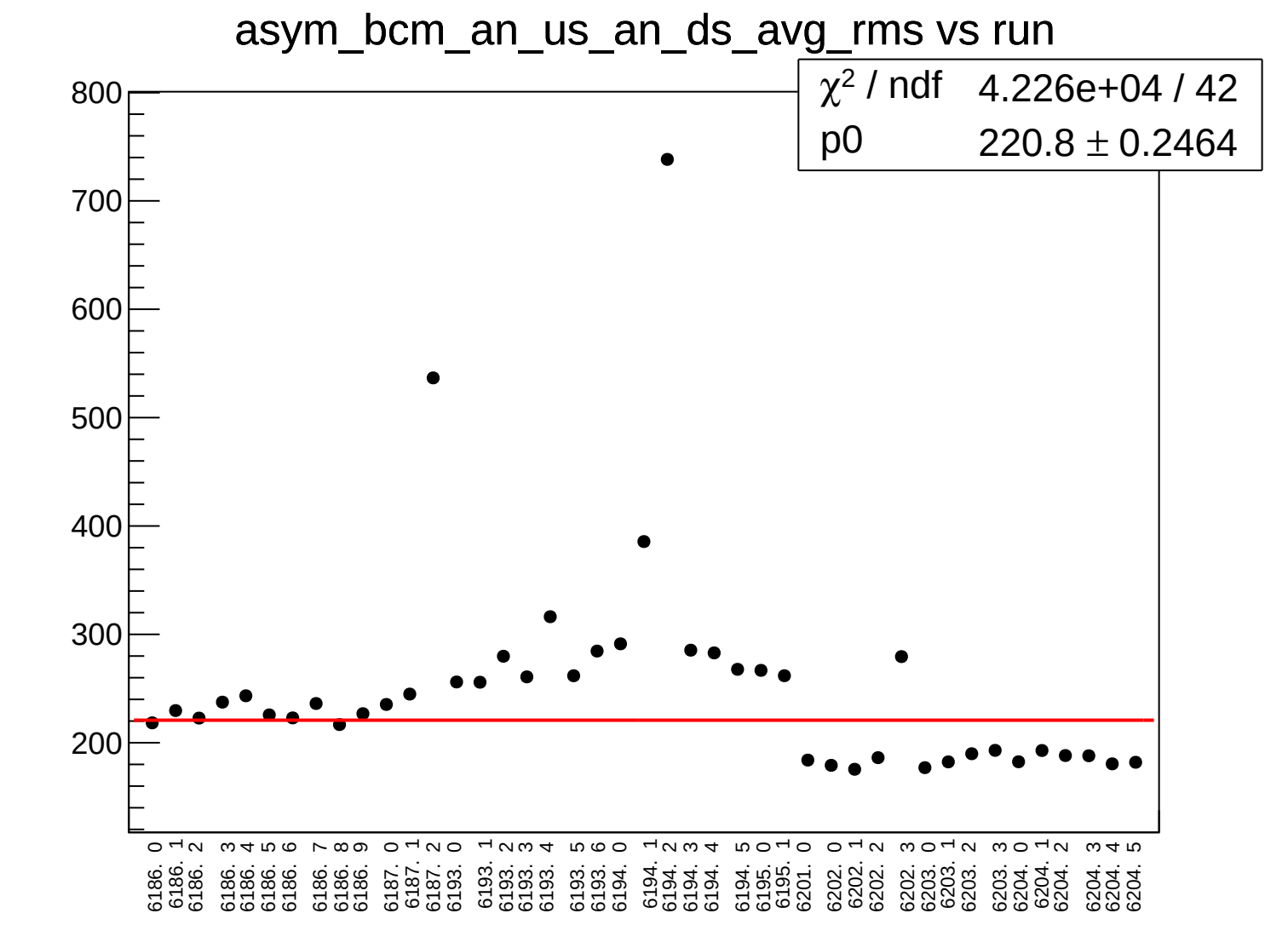

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 4.241e+04 / 42
p0 220.8 ± 0.2464
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

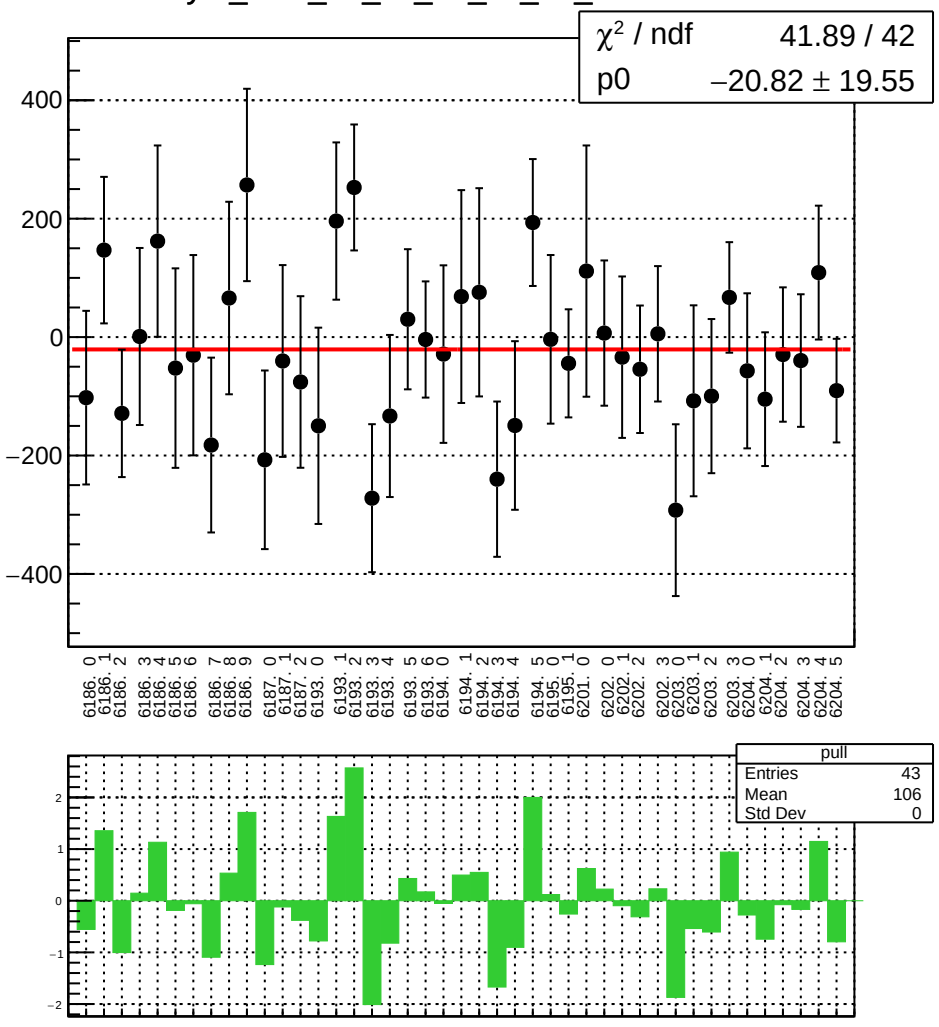

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 44.78 / 42
p0 −97.99 ± 118
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 476.4
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6

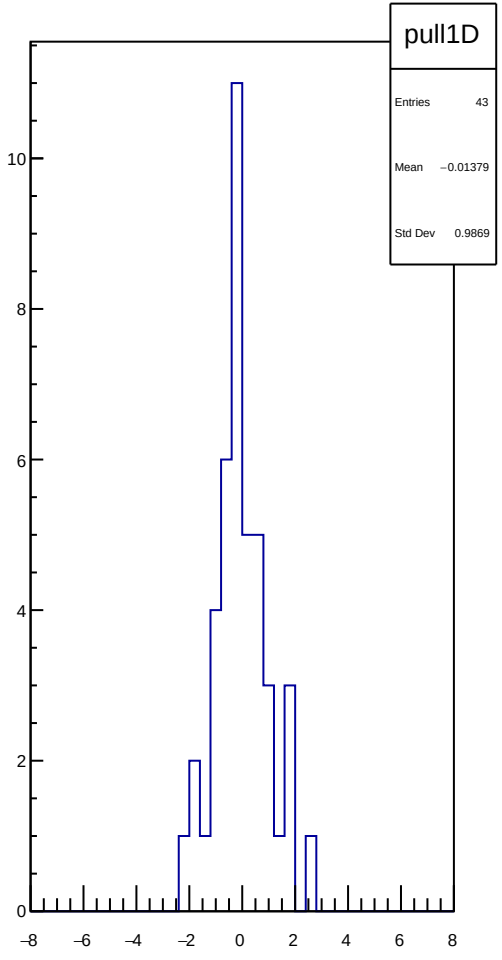

pull1D
Entries 43
Mean −0.002394
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

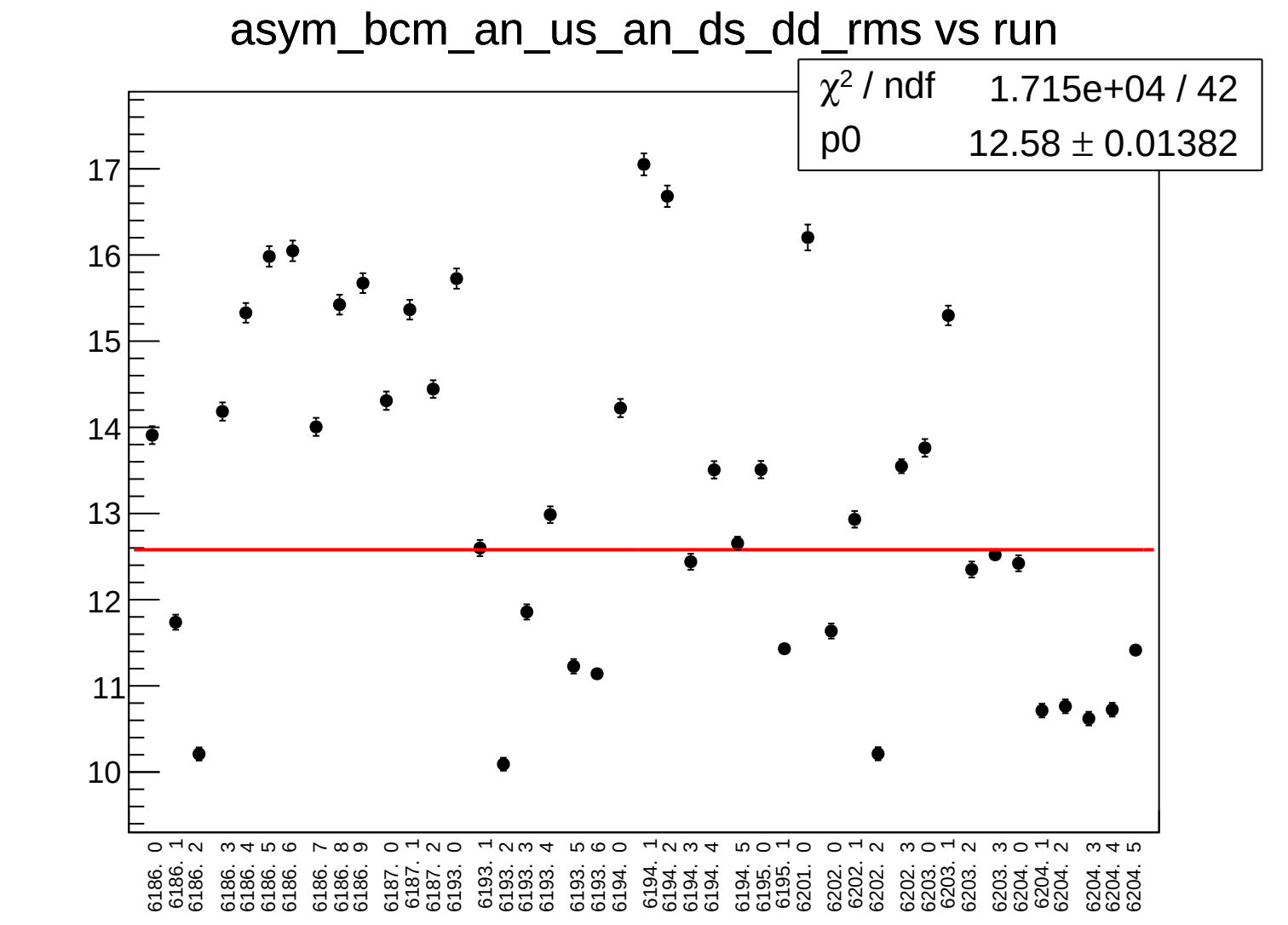

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 4.236e+04 / 42
p0 74.74 ± 0.08342
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

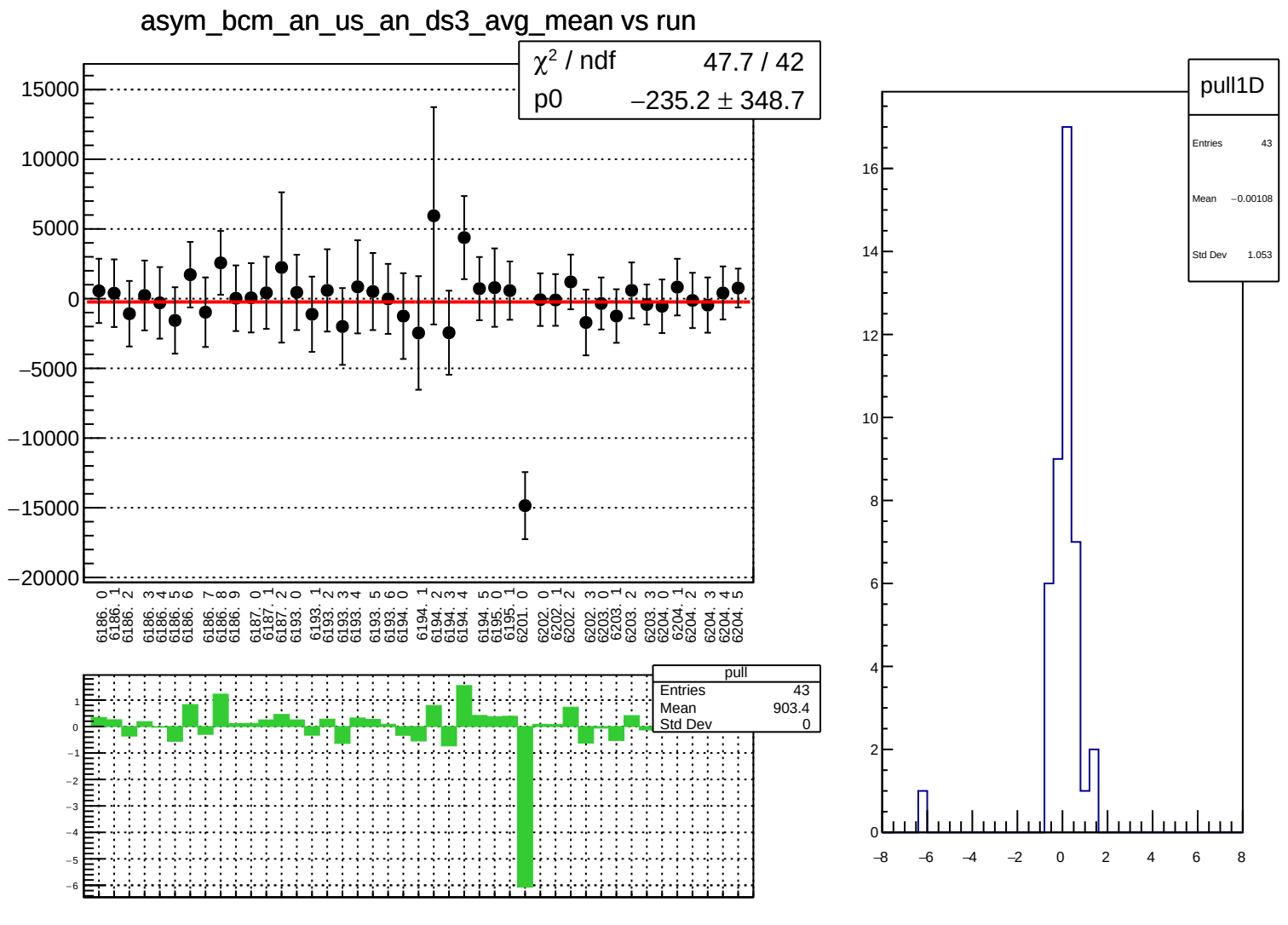

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 47.57 / 42
p0 −224.9 ± 348.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 454.7
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.002064
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

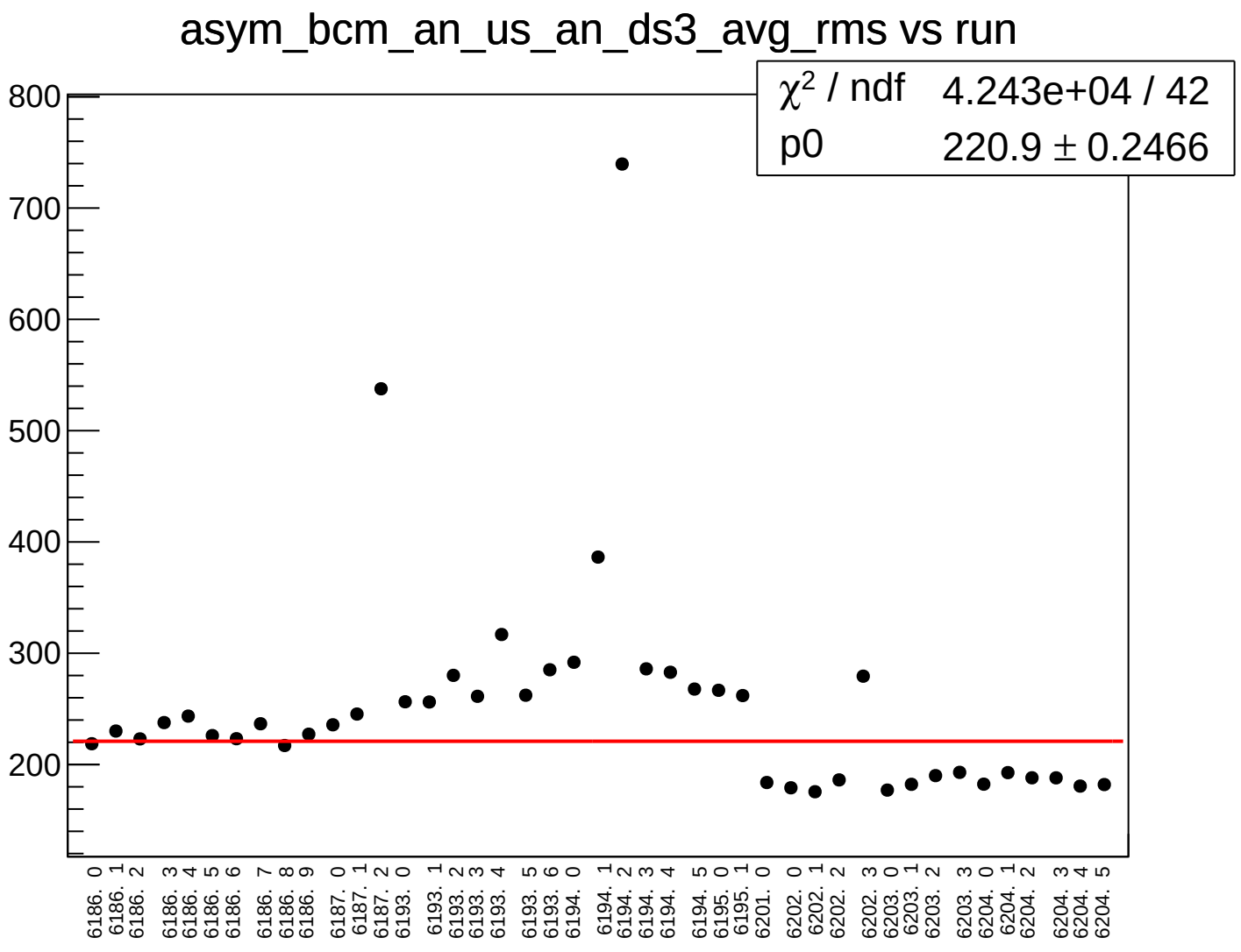

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 4.226e+04 / 42
p0 220.8 ± 0.2464
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

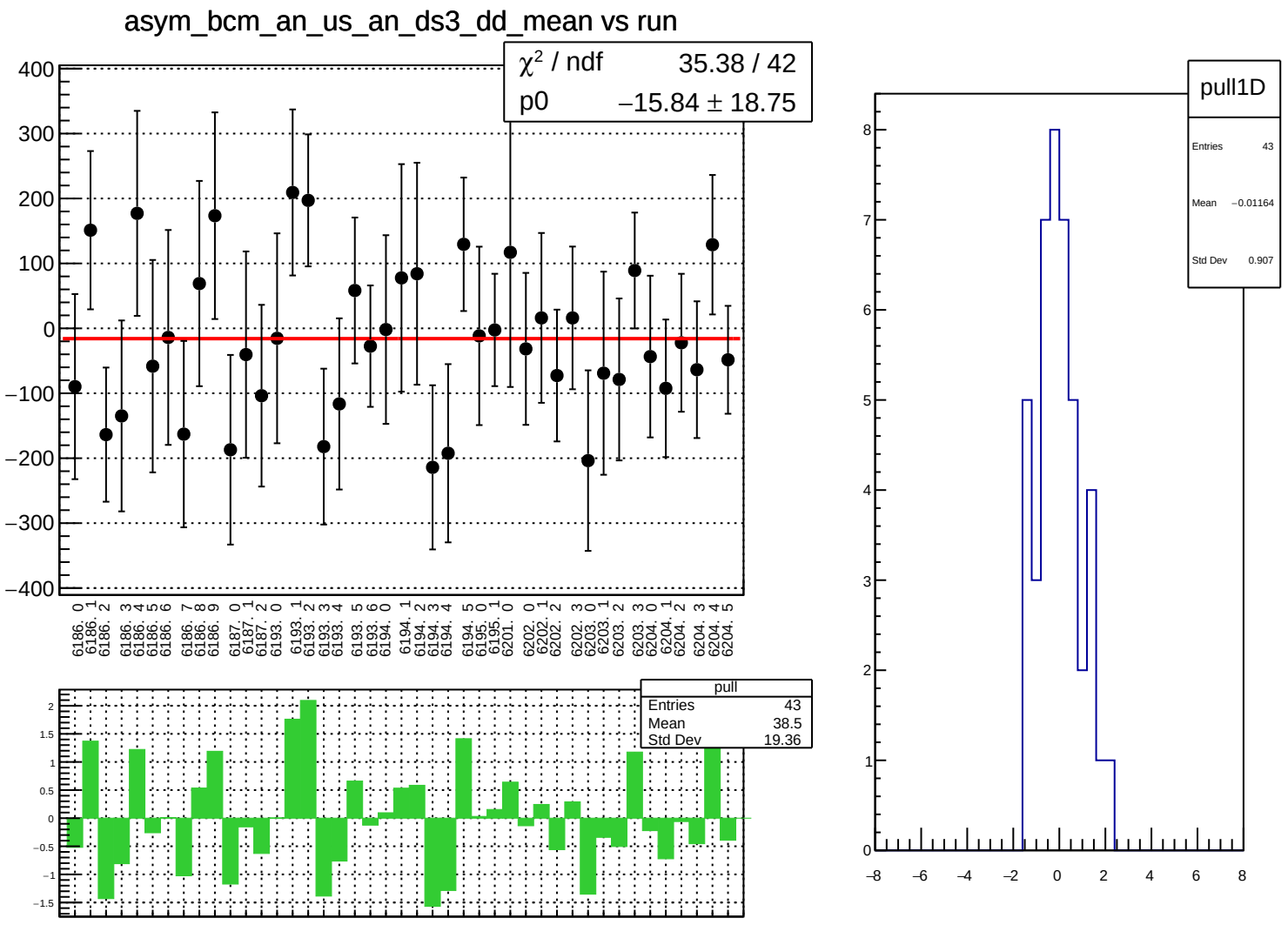

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 41.89 / 42
p0 −20.82 ± 19.55
400
200
0
−200
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 106
Std Dev 0
2
1
0
−1
−2

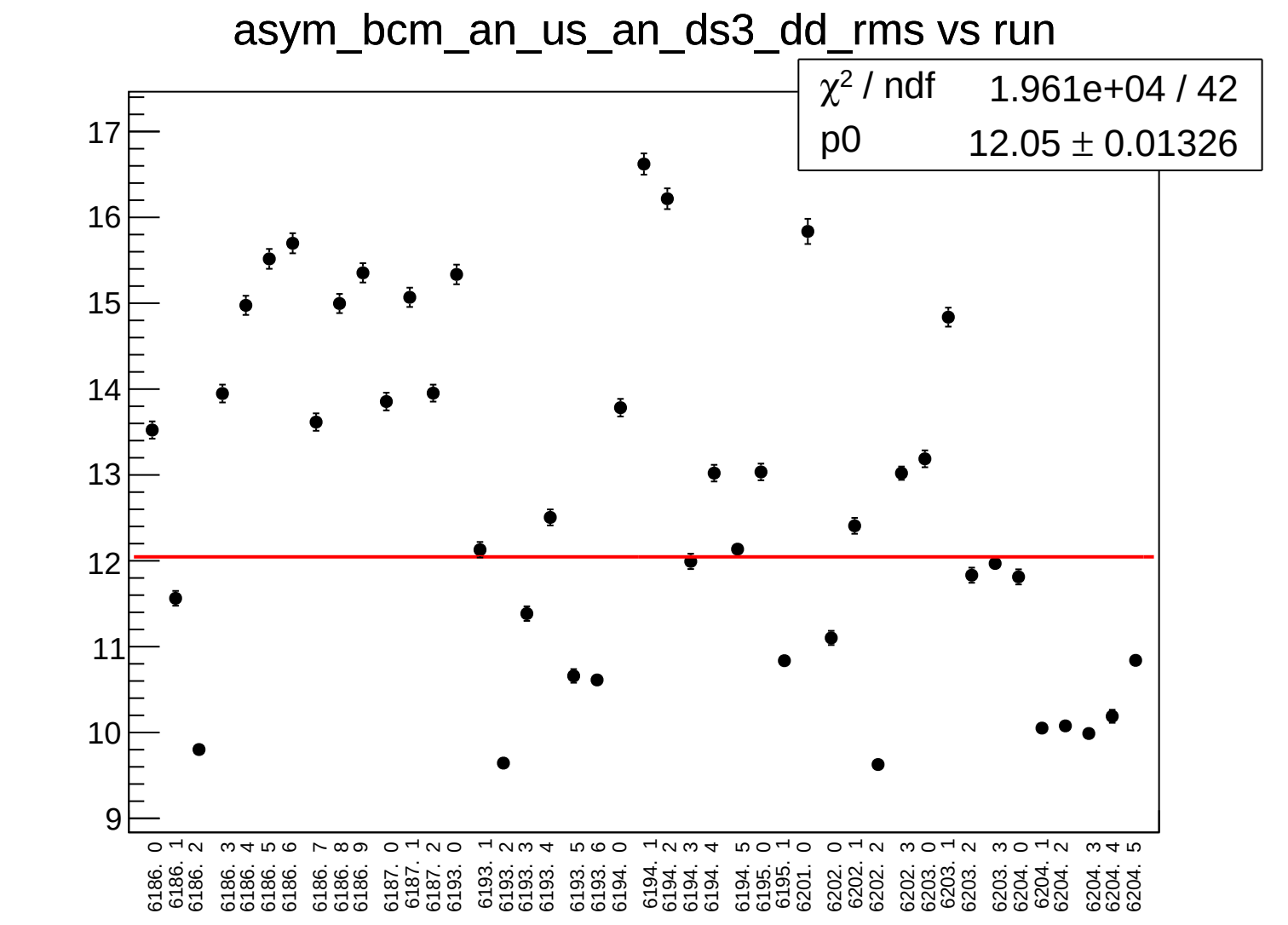

pull1D
Entries 43
Mean −0.01379
Std Dev 0.9869
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

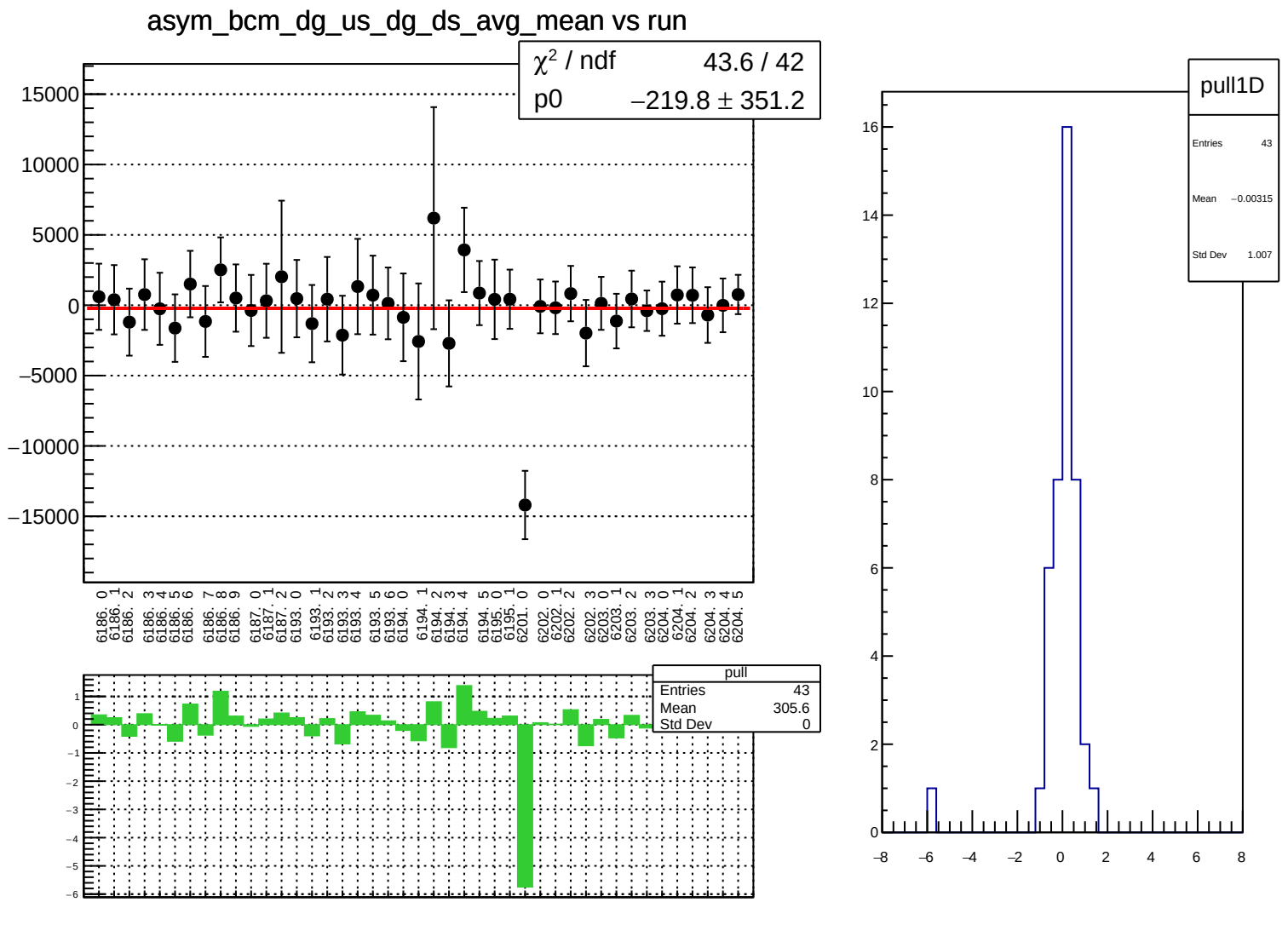

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.715e+04 / 42
p0 12.58 ± 0.01382
17
16
15
14
13
12
11
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

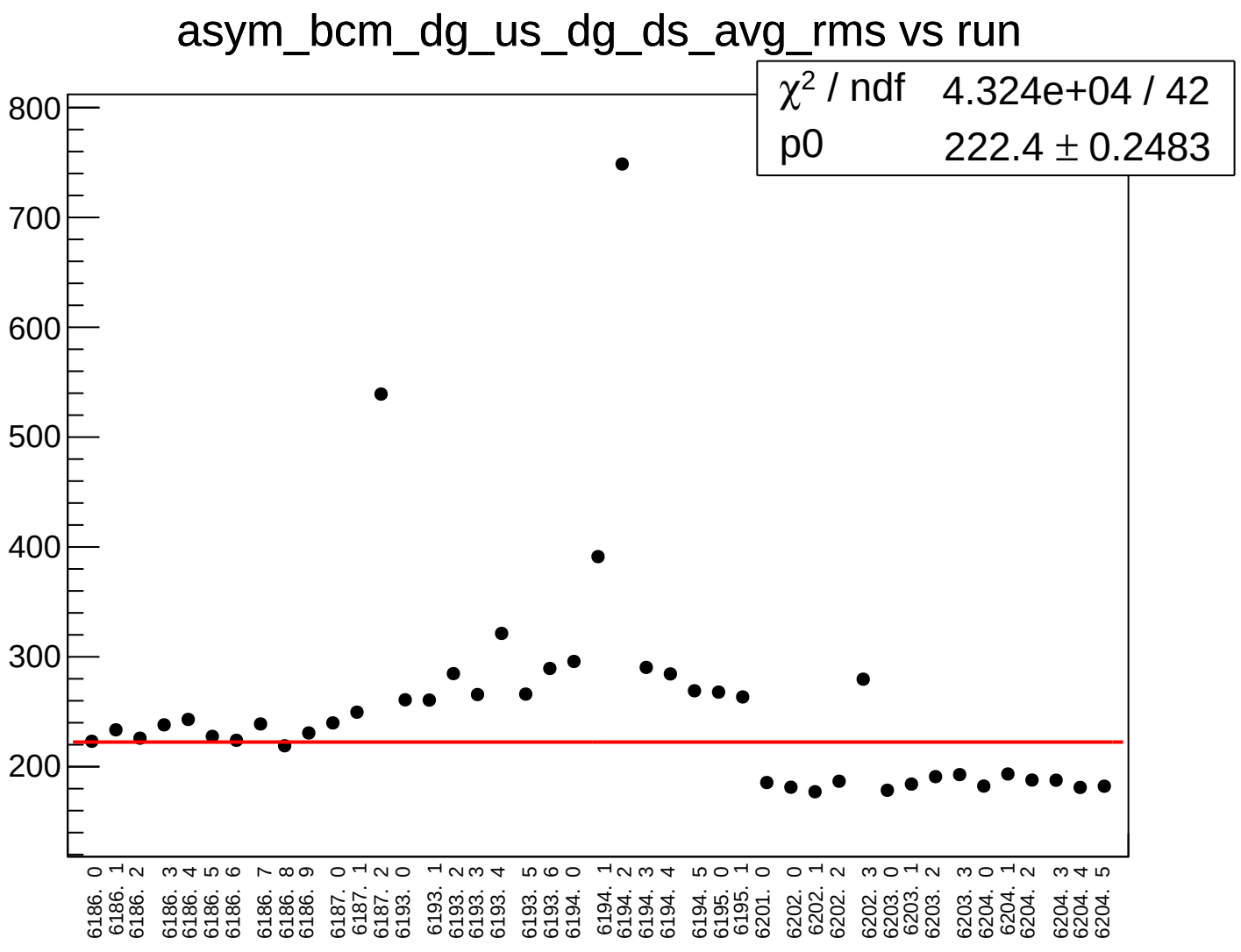

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 47.7 / 42
p0 −235.2 ± 348.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 903.4
Std Dev 0
pull1D
Entries 43
Mean −0.00108
Std Dev 1.053

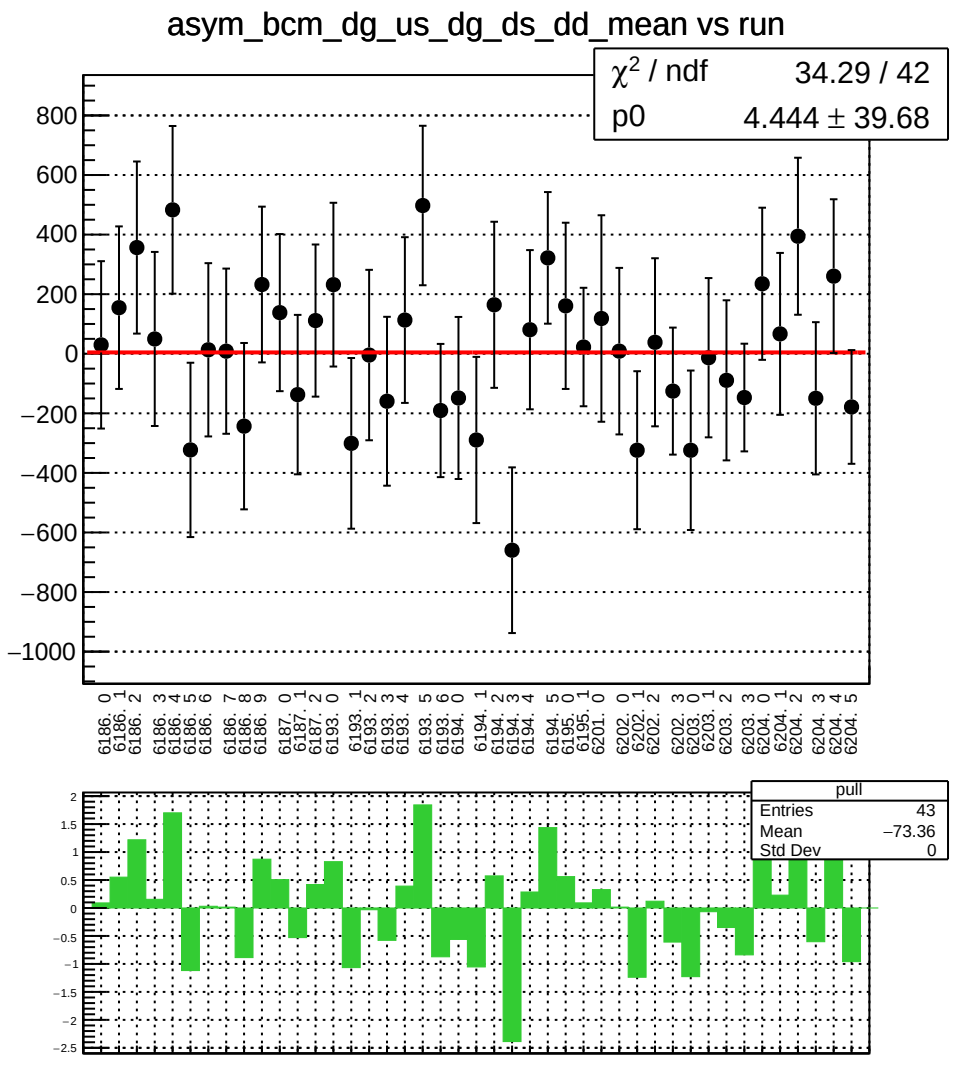

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 4.243e+04 / 42
p0 220.9 ± 0.2466
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

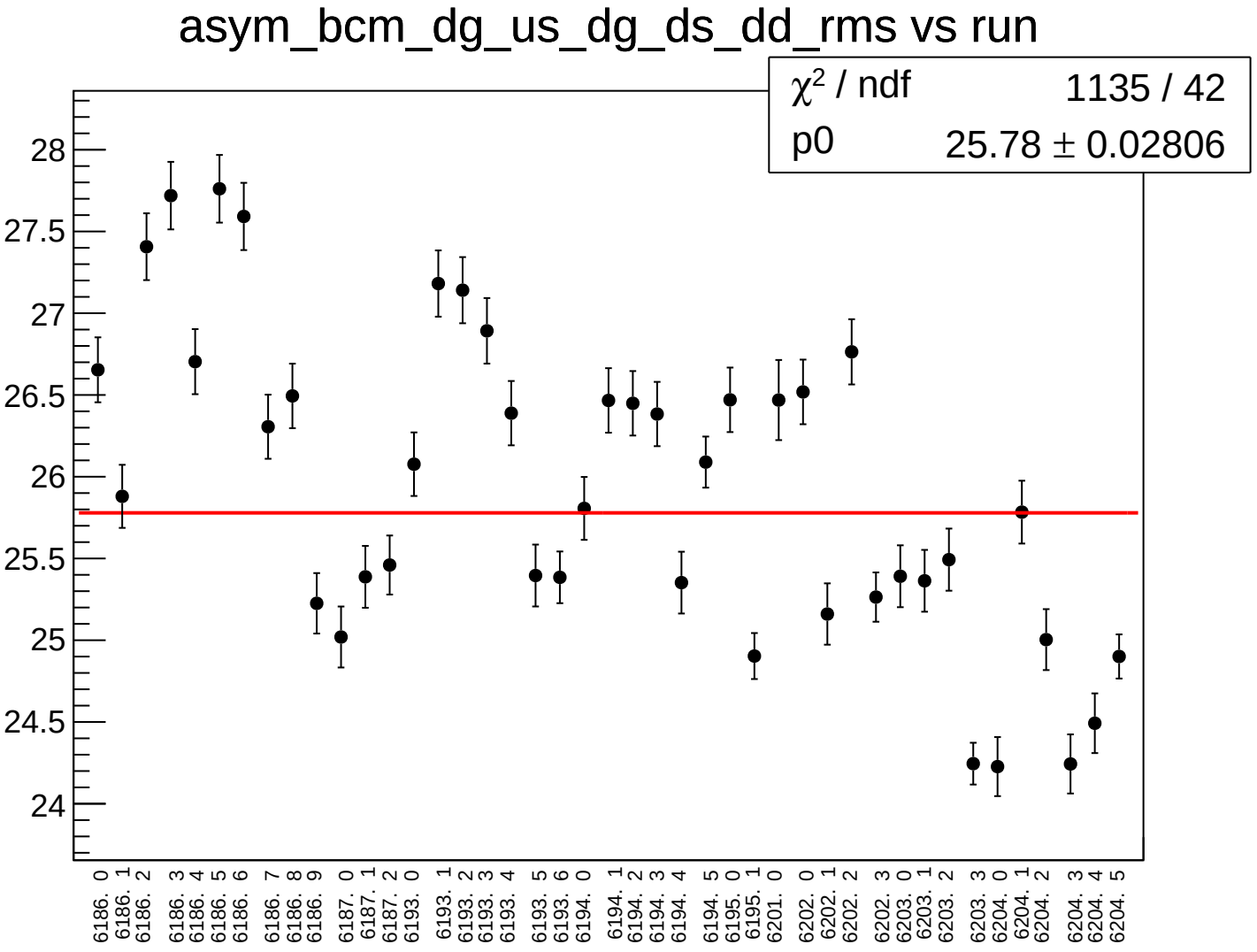

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 35.38 / 42
p0 −15.84 ± 18.75
pull
Entries 43
Mean 38.5
Std Dev 19.36
pull1D
Entries 43
Mean −0.01164
Std Dev 0.907

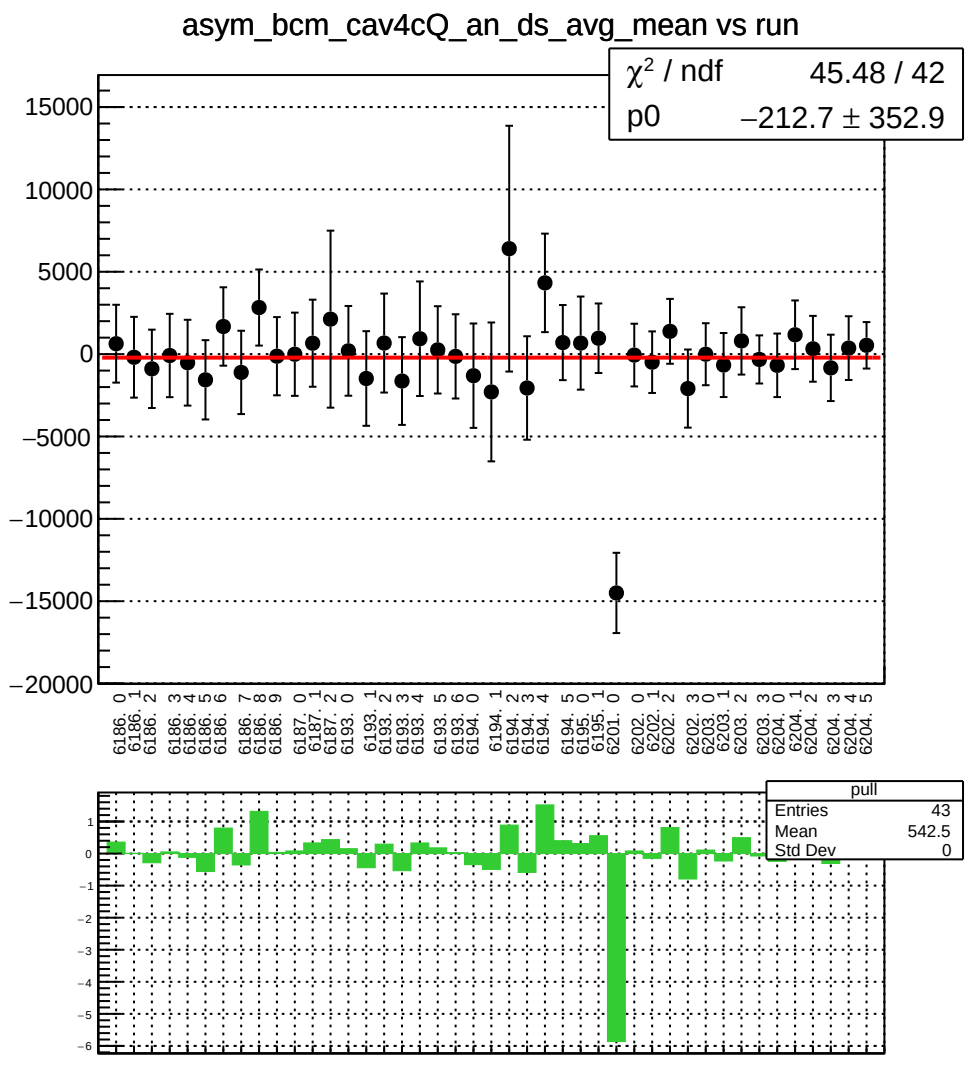

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.961e+04 / 42
p0 12.05 ± 0.01326
17
16
15
14
13
12
11
10
9
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

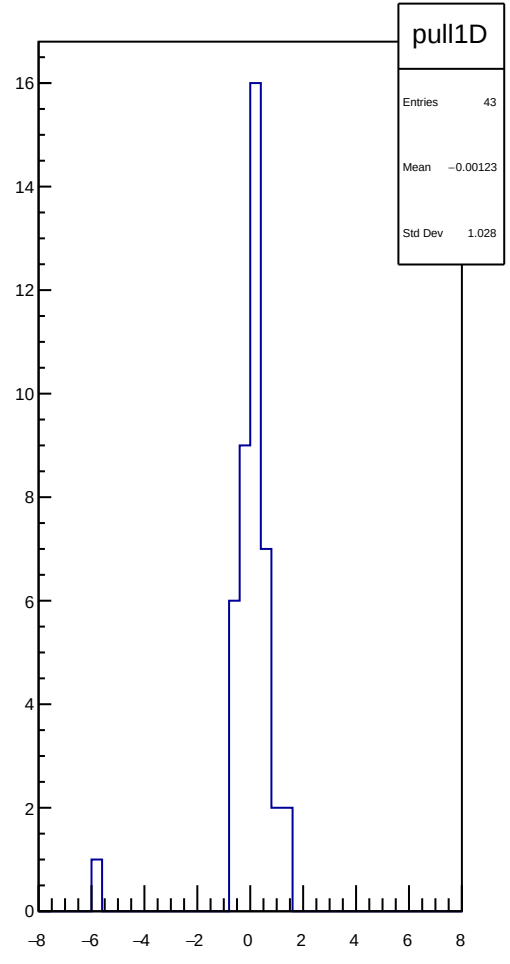

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 43.6 / 42
p0 −219.8 ± 351.2
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 305.6
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.00315
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

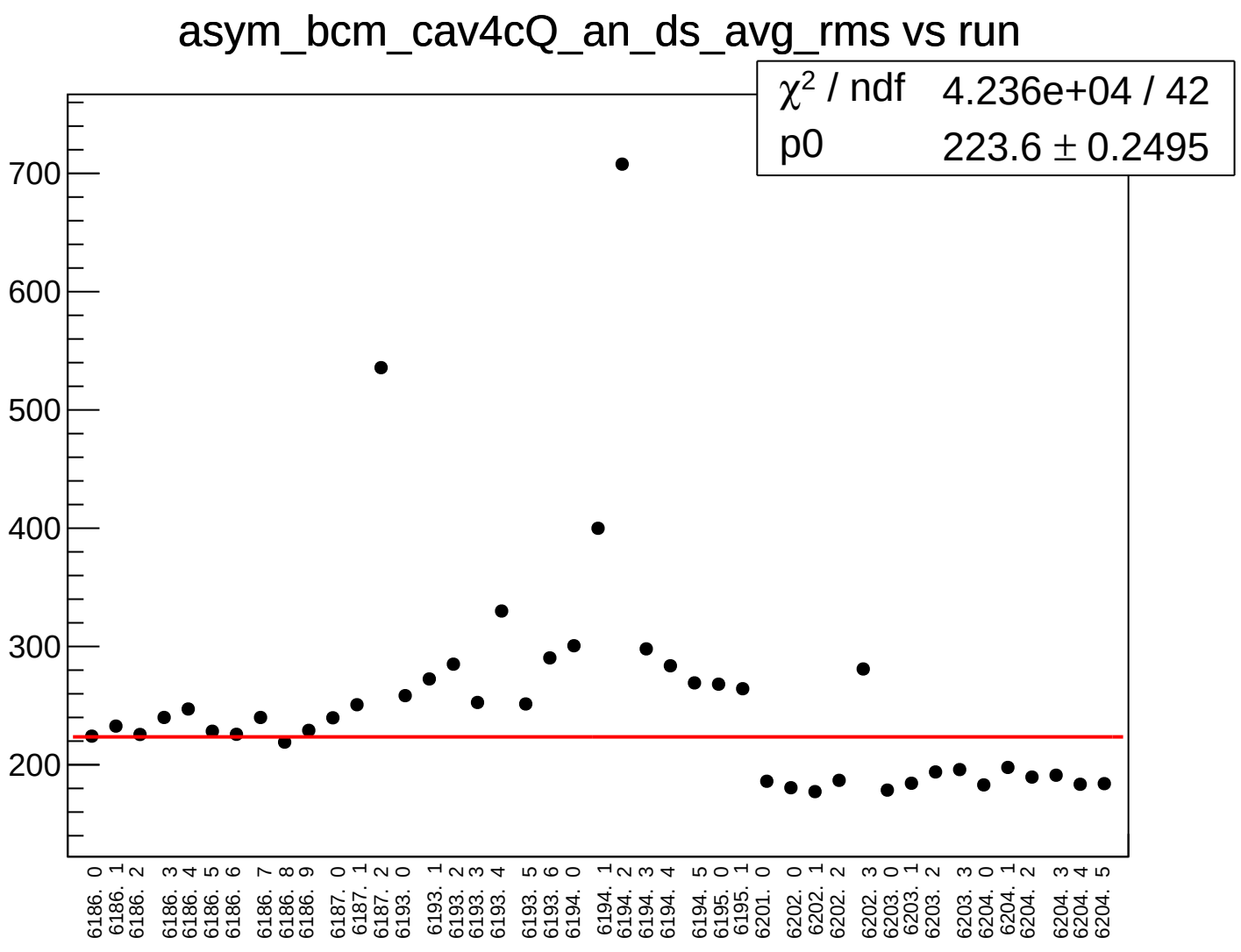

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 4.324e+04 / 42
p0 222.4 ± 0.2483
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

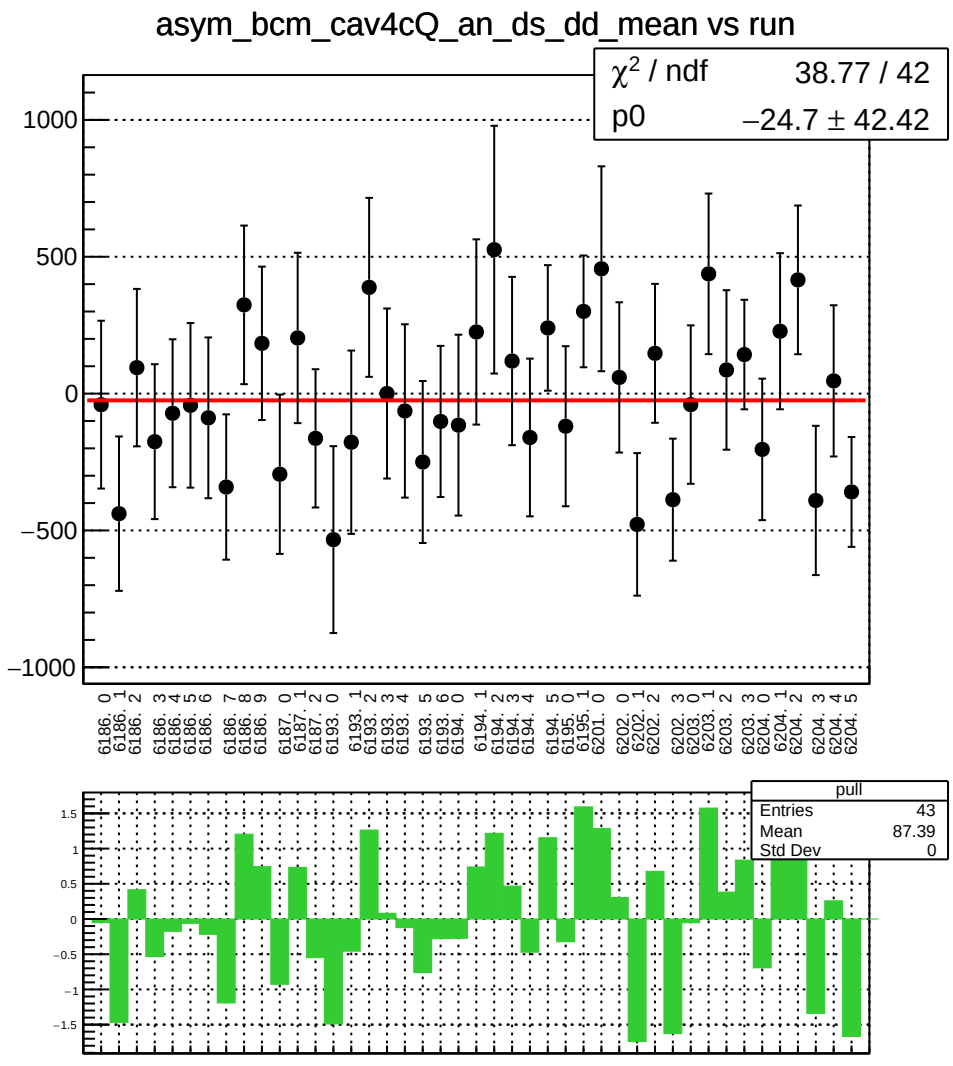

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 34.29 / 42
p0 4.444 ± 39.68
pull
Entries 43
Mean −73.36
Std Dev 0
pull1D
Entries 43
Mean 0.01537
Std Dev 0.8929

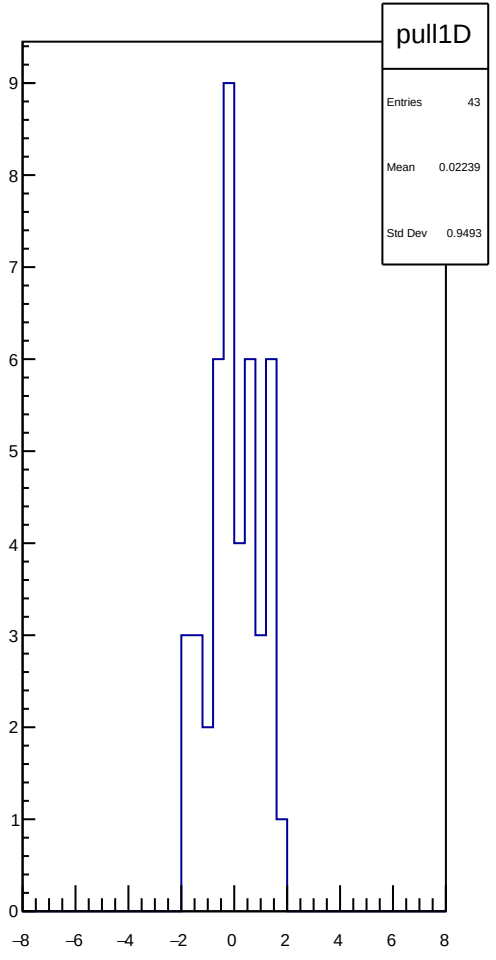

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1135 / 42
p0 25.78 ± 0.02806
28
27.5
27
26.5
26
25.5
25
24.5
24
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

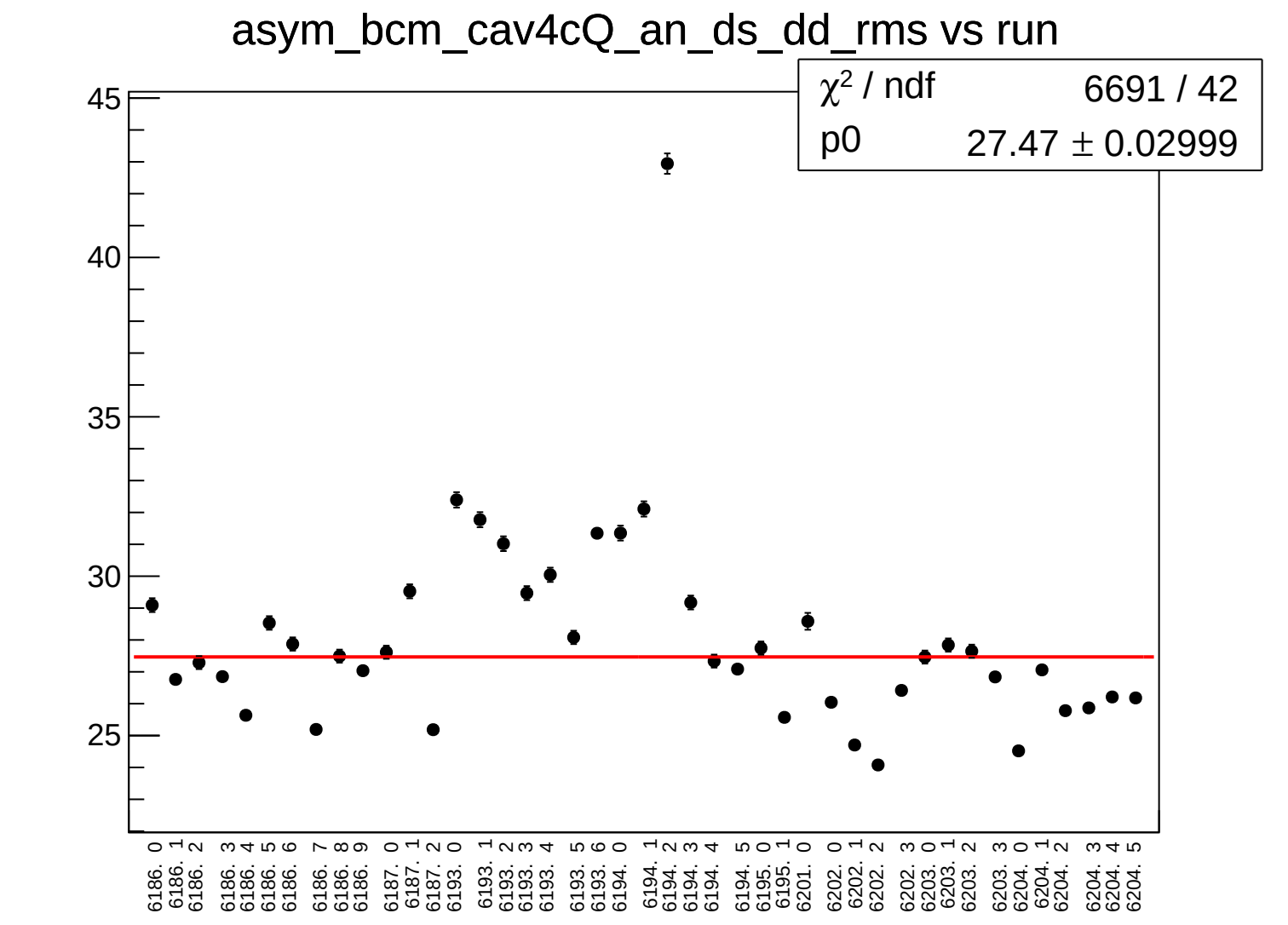

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 45.48 / 42
p0 −212.7 ± 352.9
pull
Entries 43
Mean 542.5
Std Dev 0

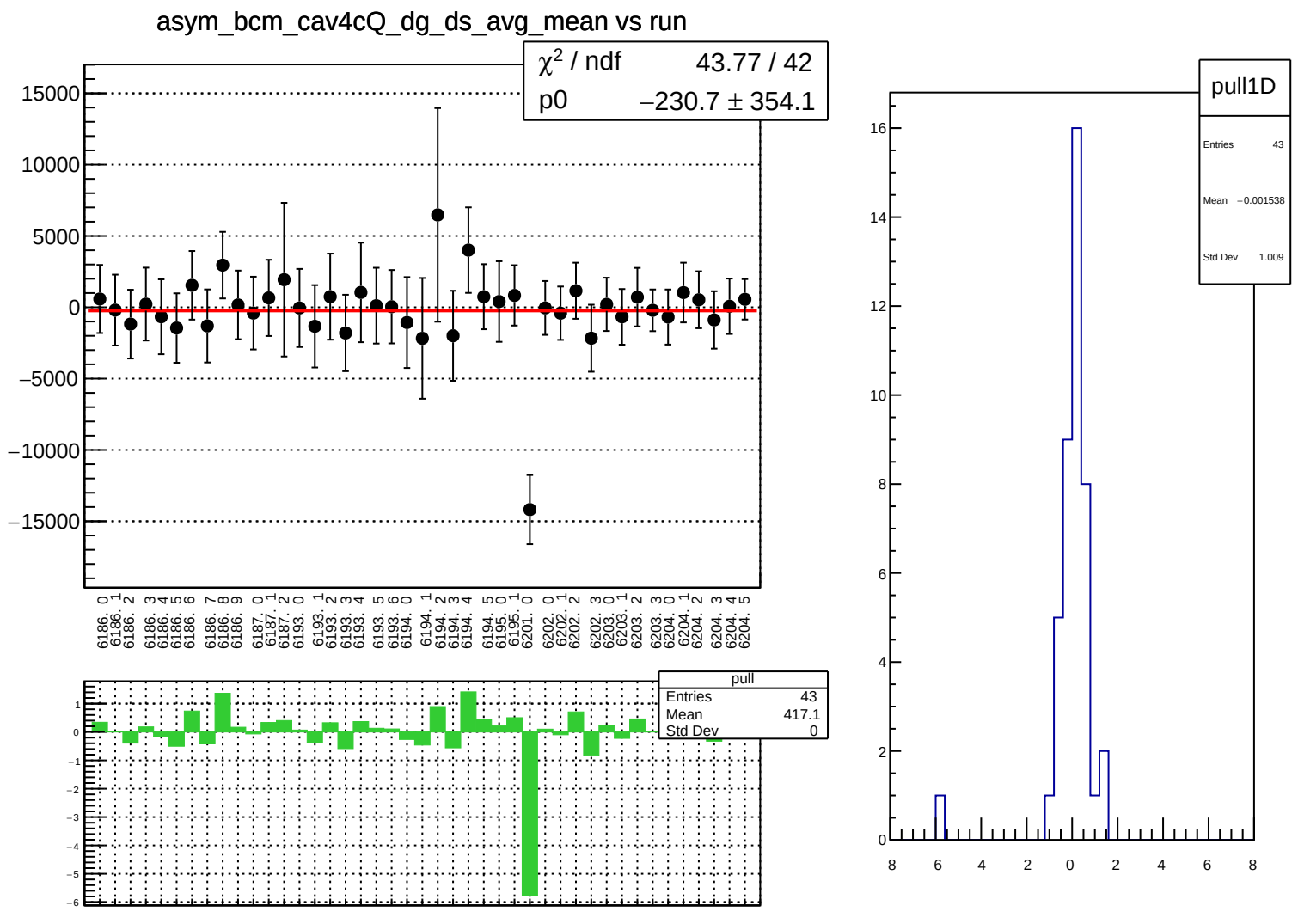

pull1D
Entries 43
Mean −0.00123
Std Dev 1.028

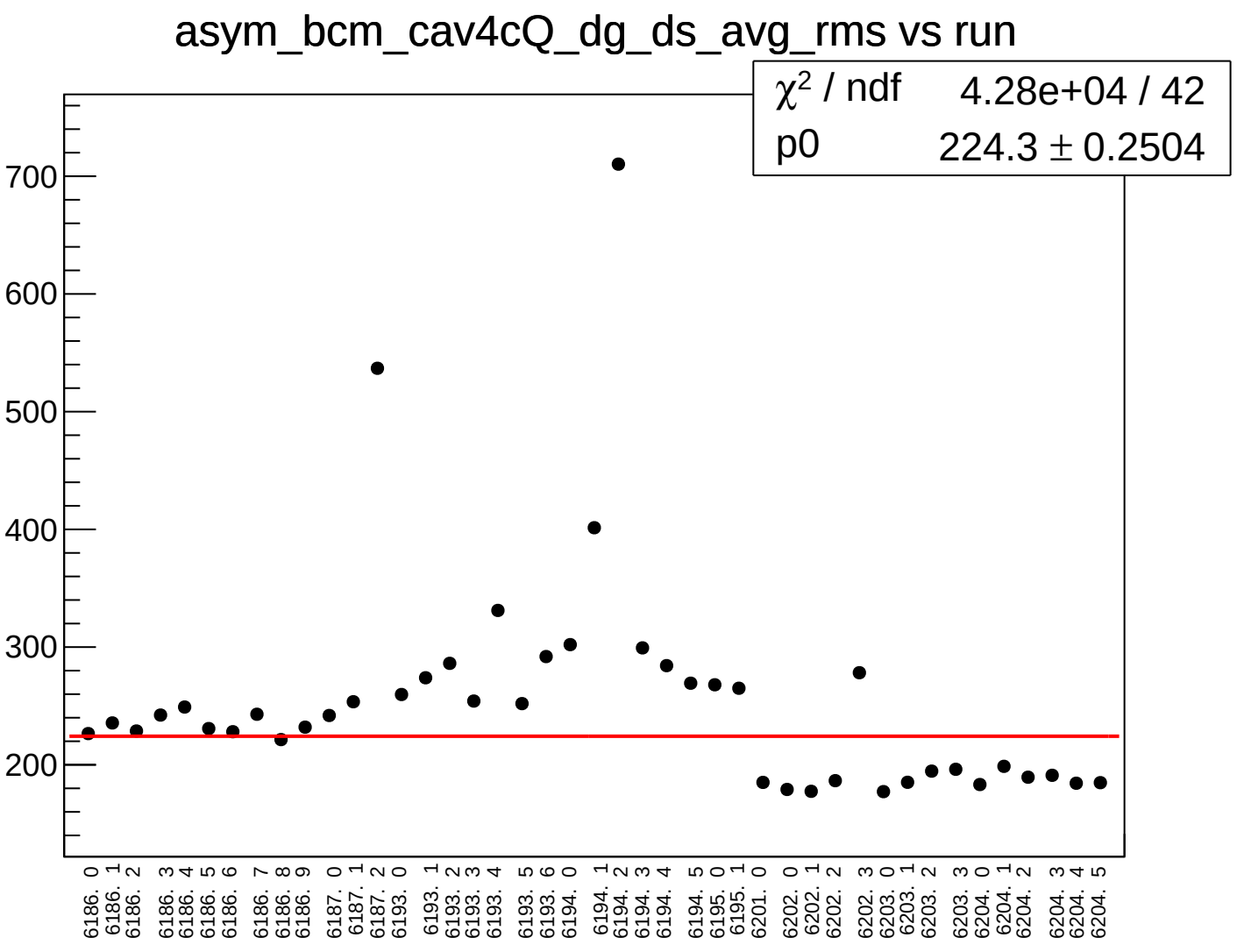

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 4.236e+04 / 42
p0 223.6 ± 0.2495
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

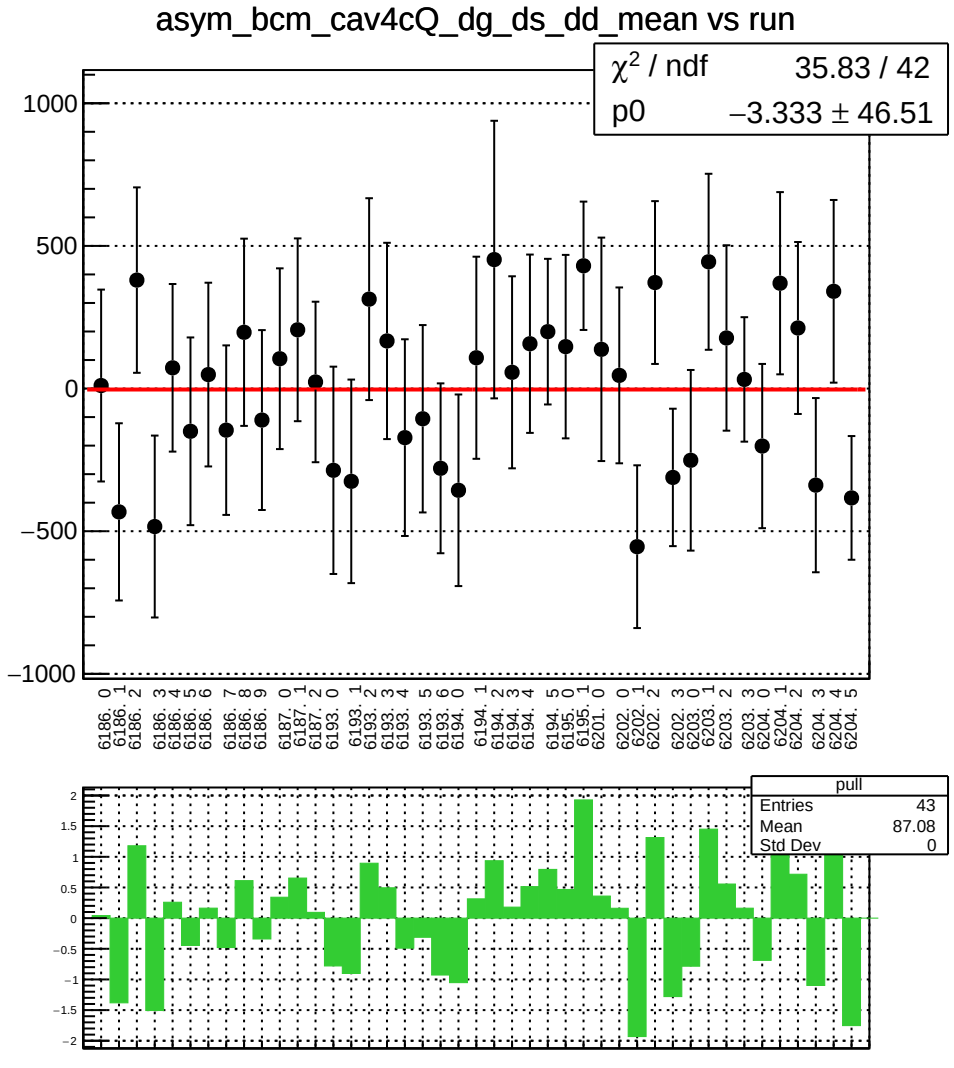

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 38.77 / 42
p0 −24.7 ± 42.42
1000
500
0
−500
−1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 87.39
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

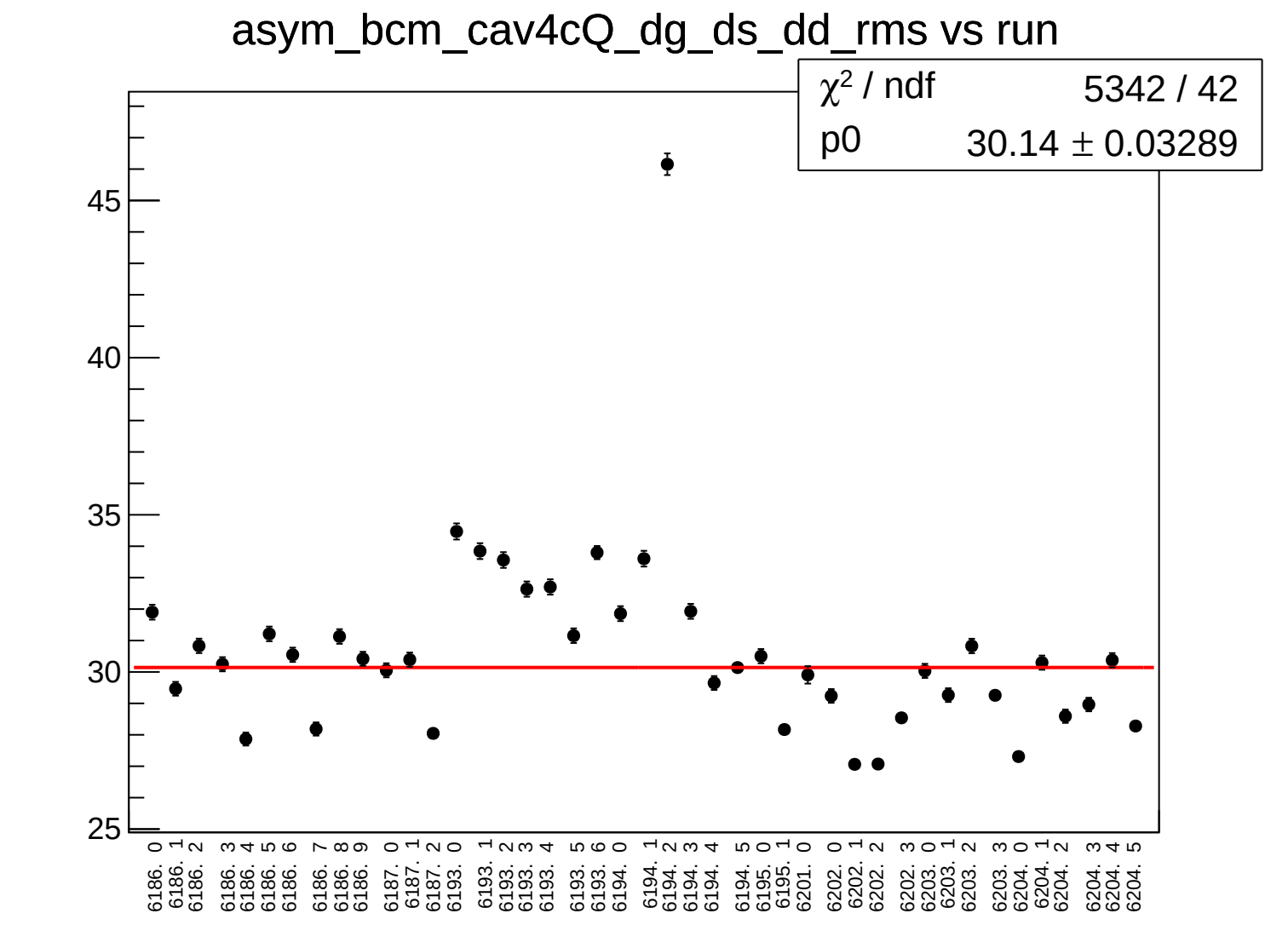

pull1D
Entries 43
Mean 0.02239
Std Dev 0.9493
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

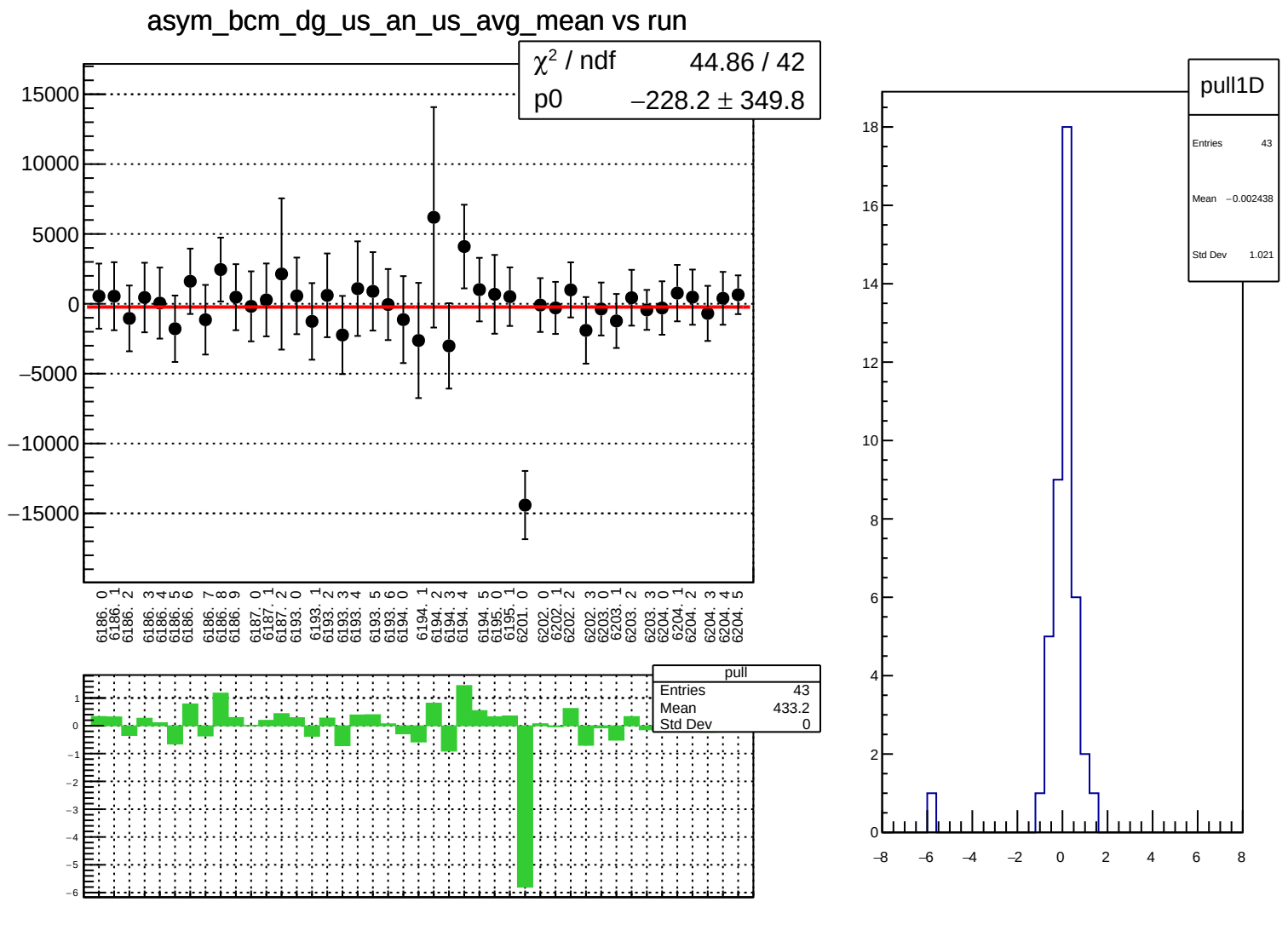

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 6691 / 42
p0 27.47 ± 0.02999
45
40
35
30
25
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

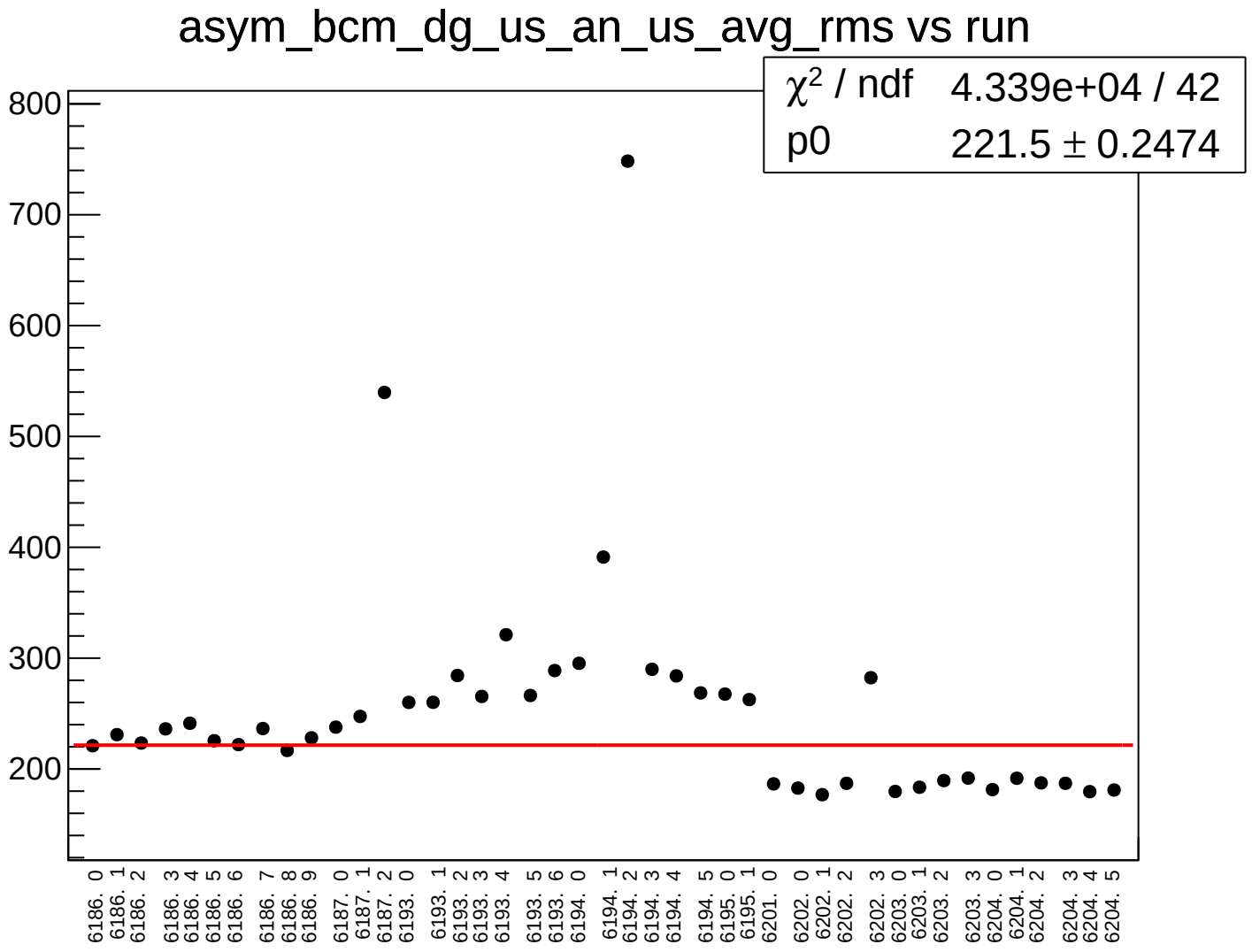

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 43.77 / 42
p0 −230.7 ± 354.1
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 417.1
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.001538
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

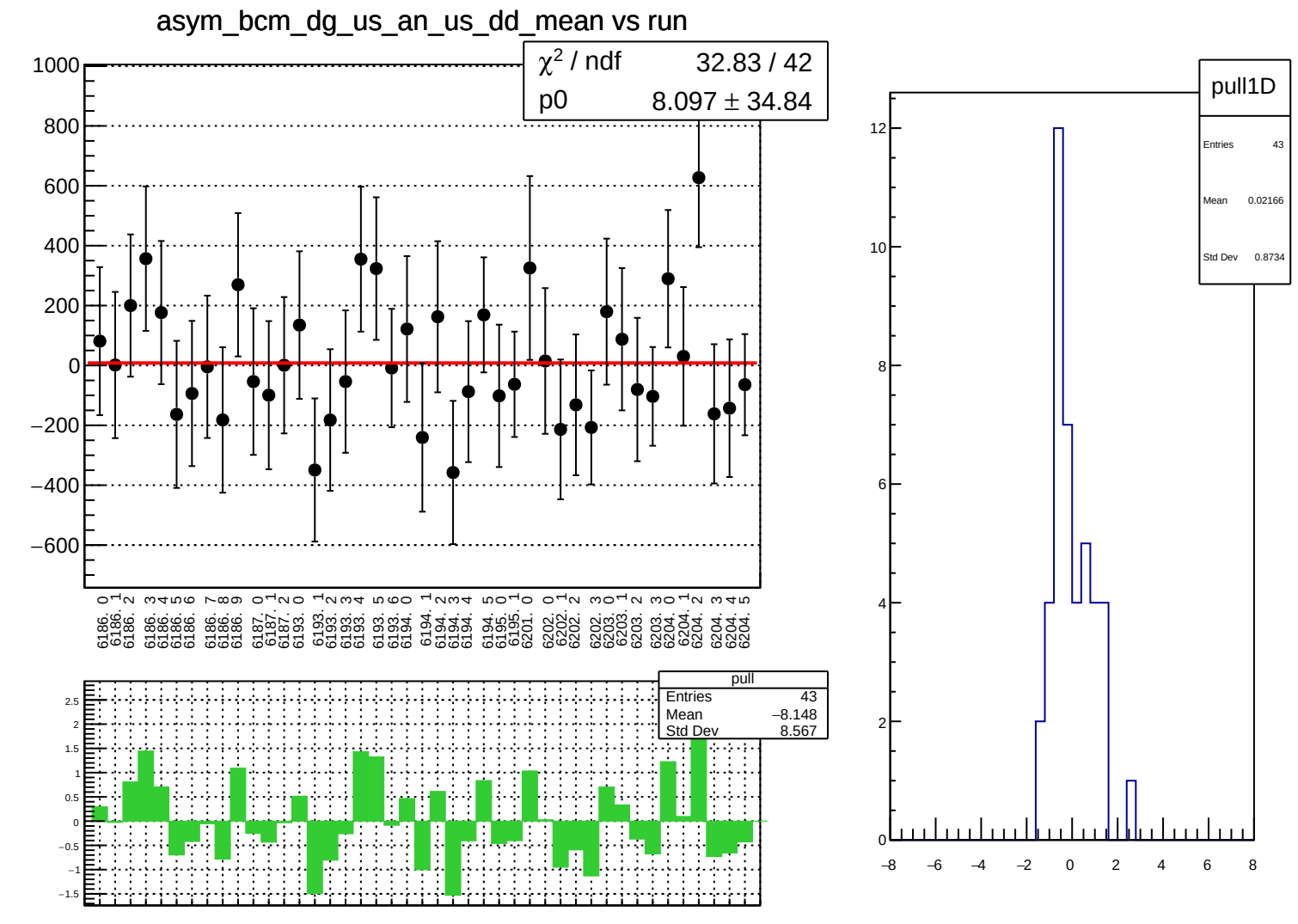

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 4.28e+04 / 42
p0 224.3 ± 0.2504
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

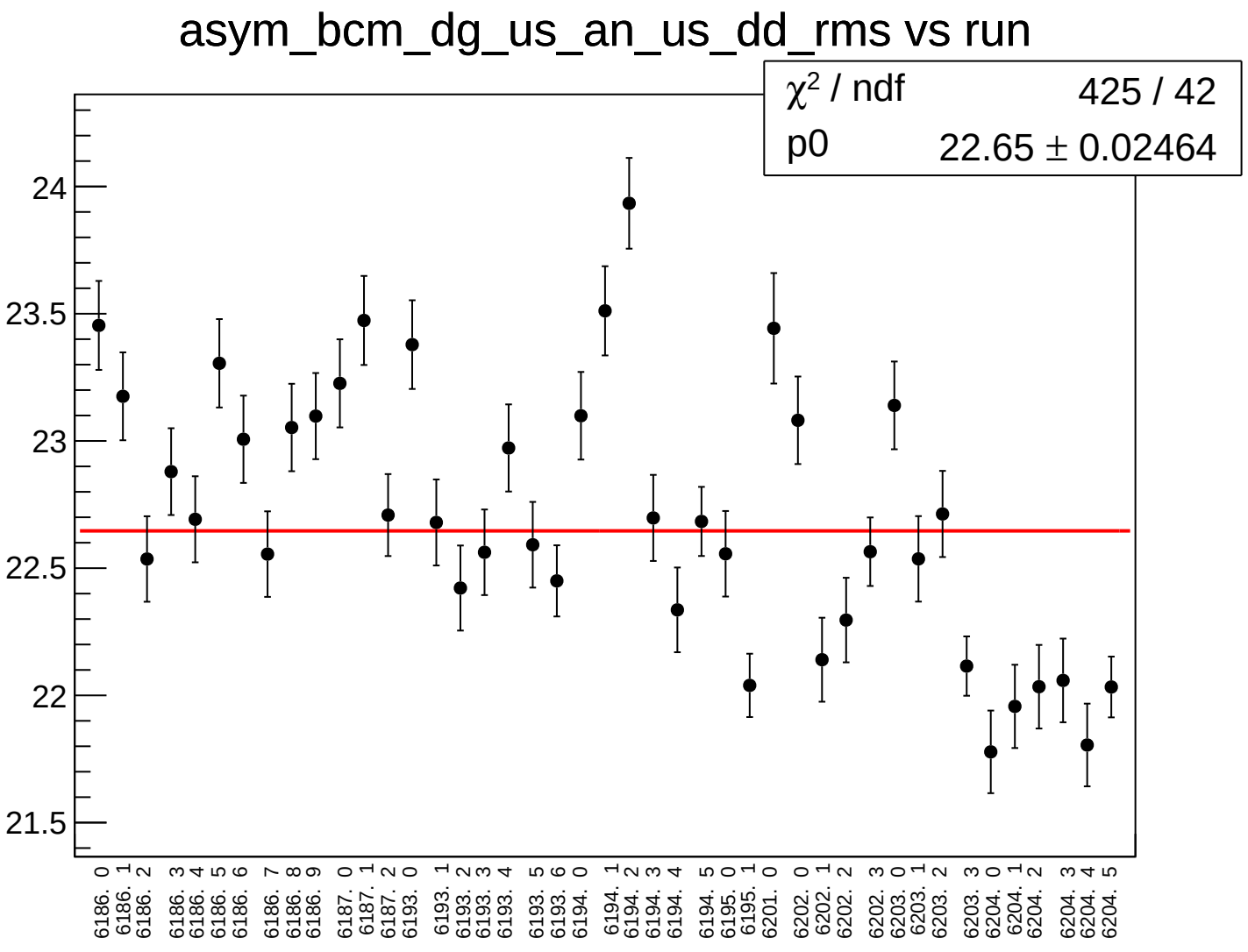

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 35.83 / 42
p0 −3.333 ± 46.51
1000
500
0
−500
−1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 87.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.0158
Std Dev 0.9127
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

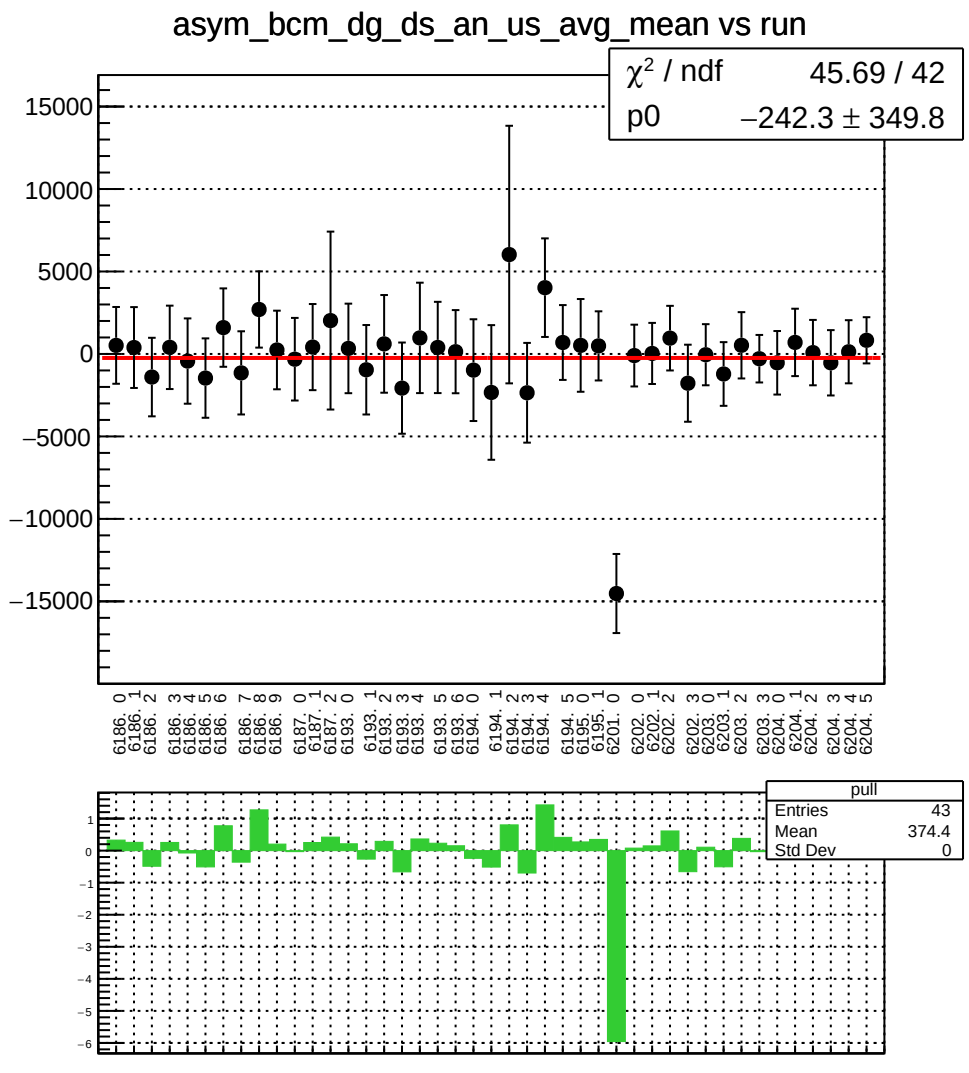

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 5342 / 42
p0 30.14 ± 0.03289
45
40
35
30
25
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

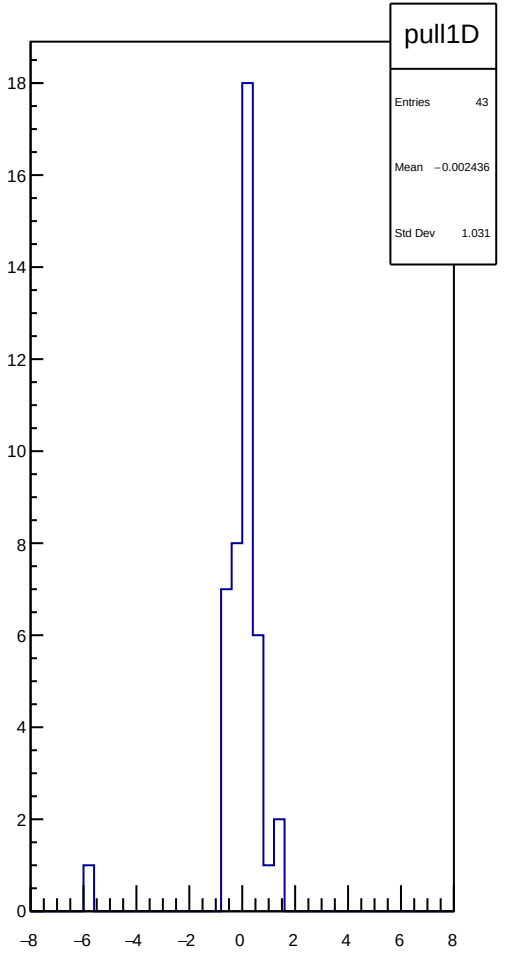

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 44.86 / 42
p0 −228.2 ± 349.8
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 433.2
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.002438
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

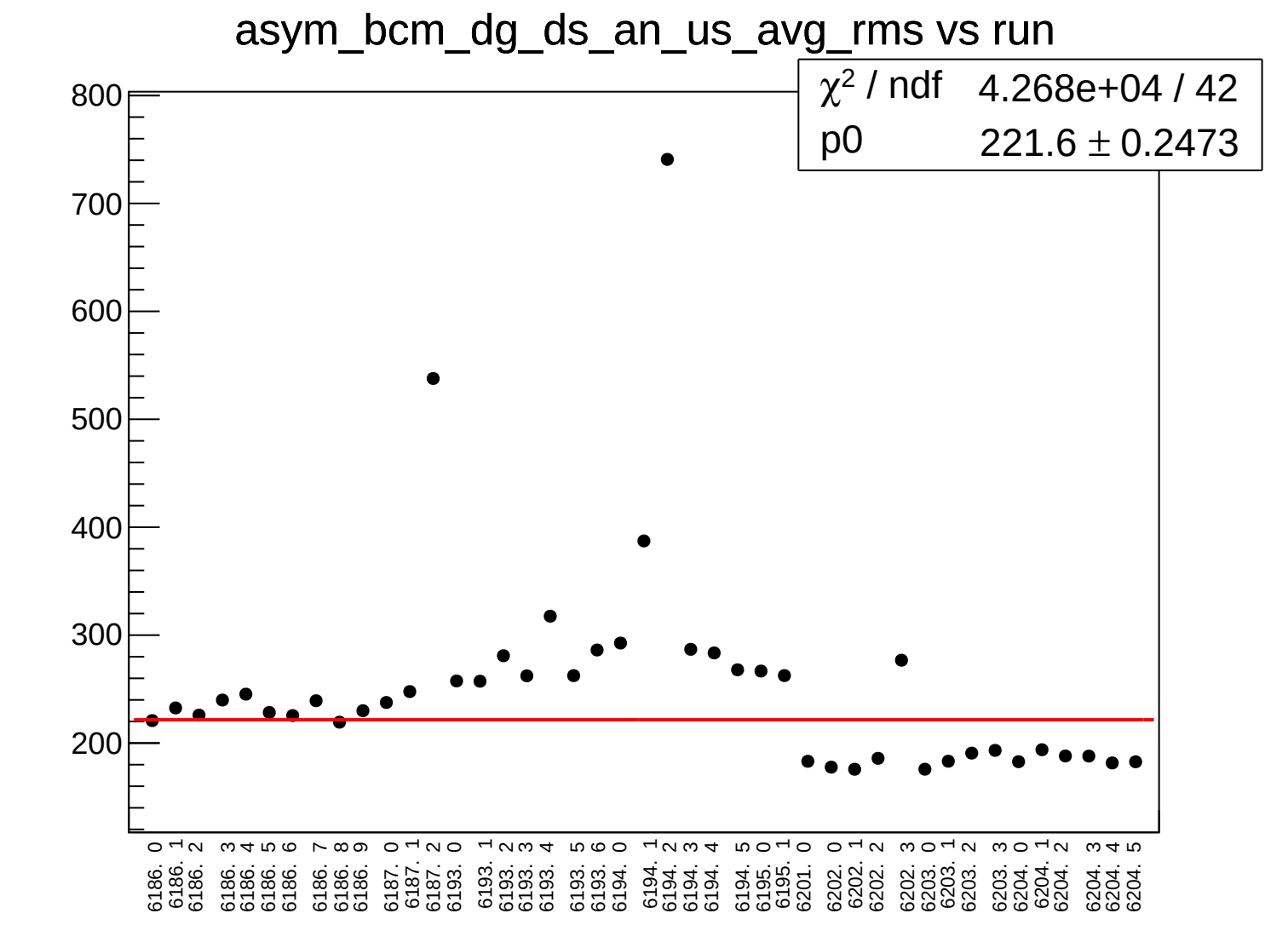

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 4.339e+04 / 42
p0 221.5 ± 0.2474
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

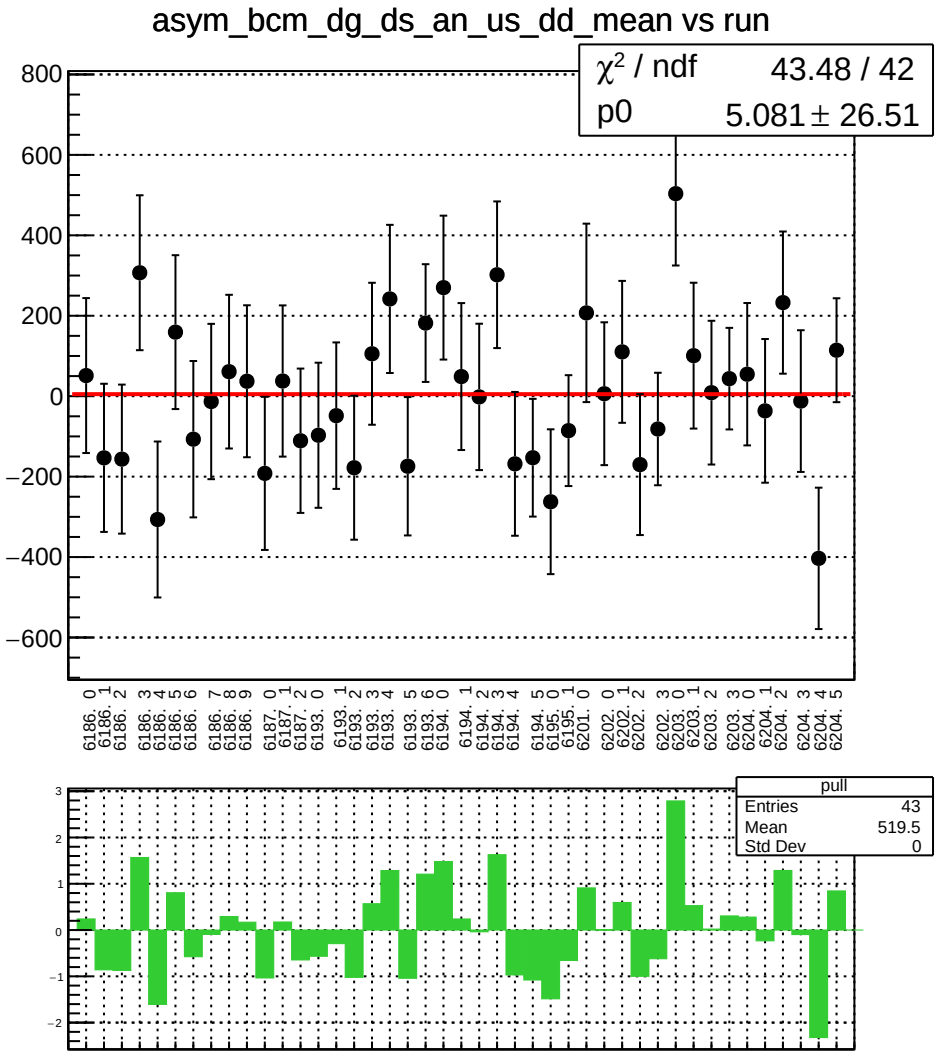

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 32.83 / 42
p0 8.097 ± 34.84
1000
800
600
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −8.148
Std Dev 8.567
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.02166
Std Dev 0.8734
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

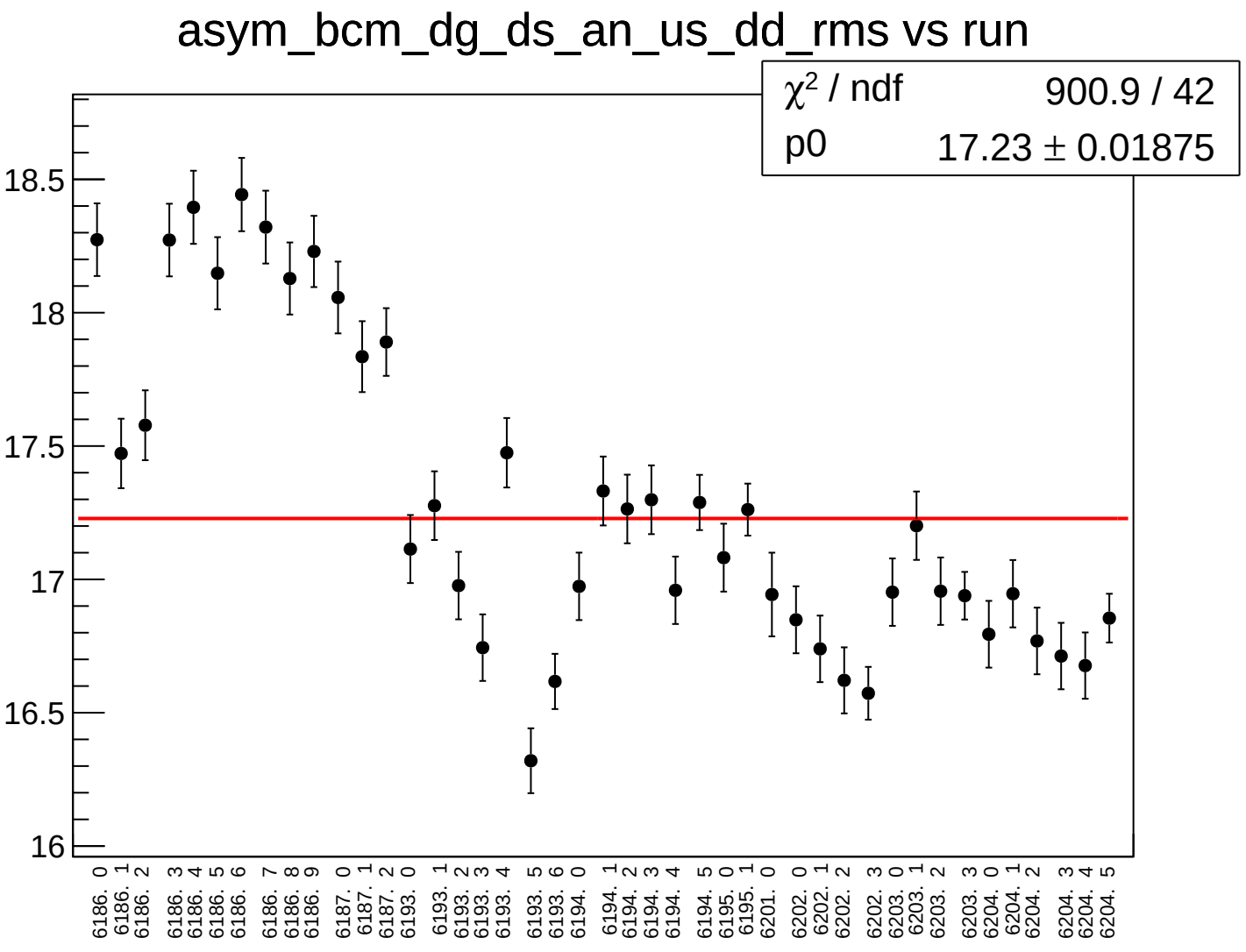

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 425 / 42
p0 22.65 ± 0.02464
24
23.5
23
22.5
22
21.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

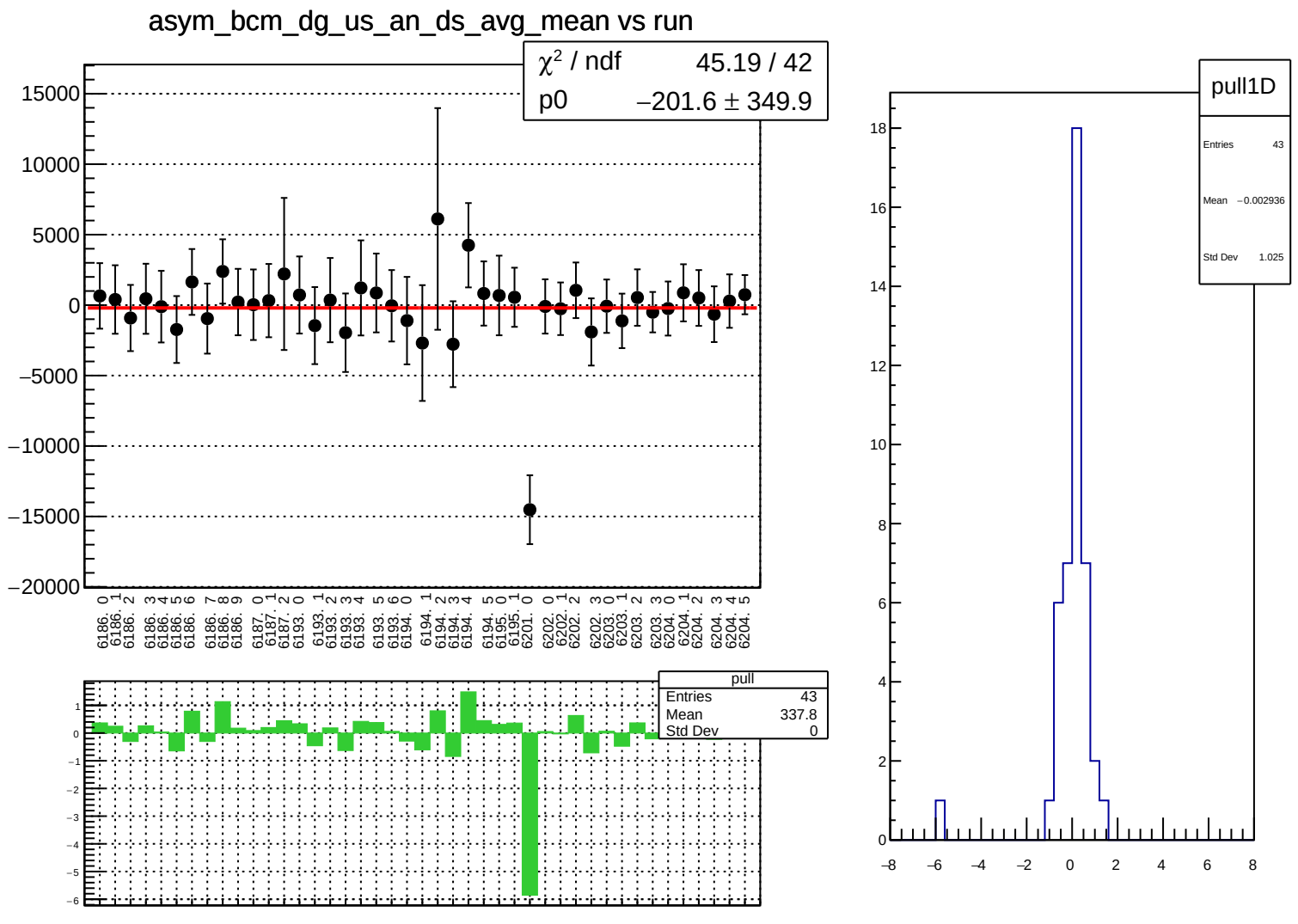

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 45.69 / 42
p0 −242.3 ± 349.8
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 374.4
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6

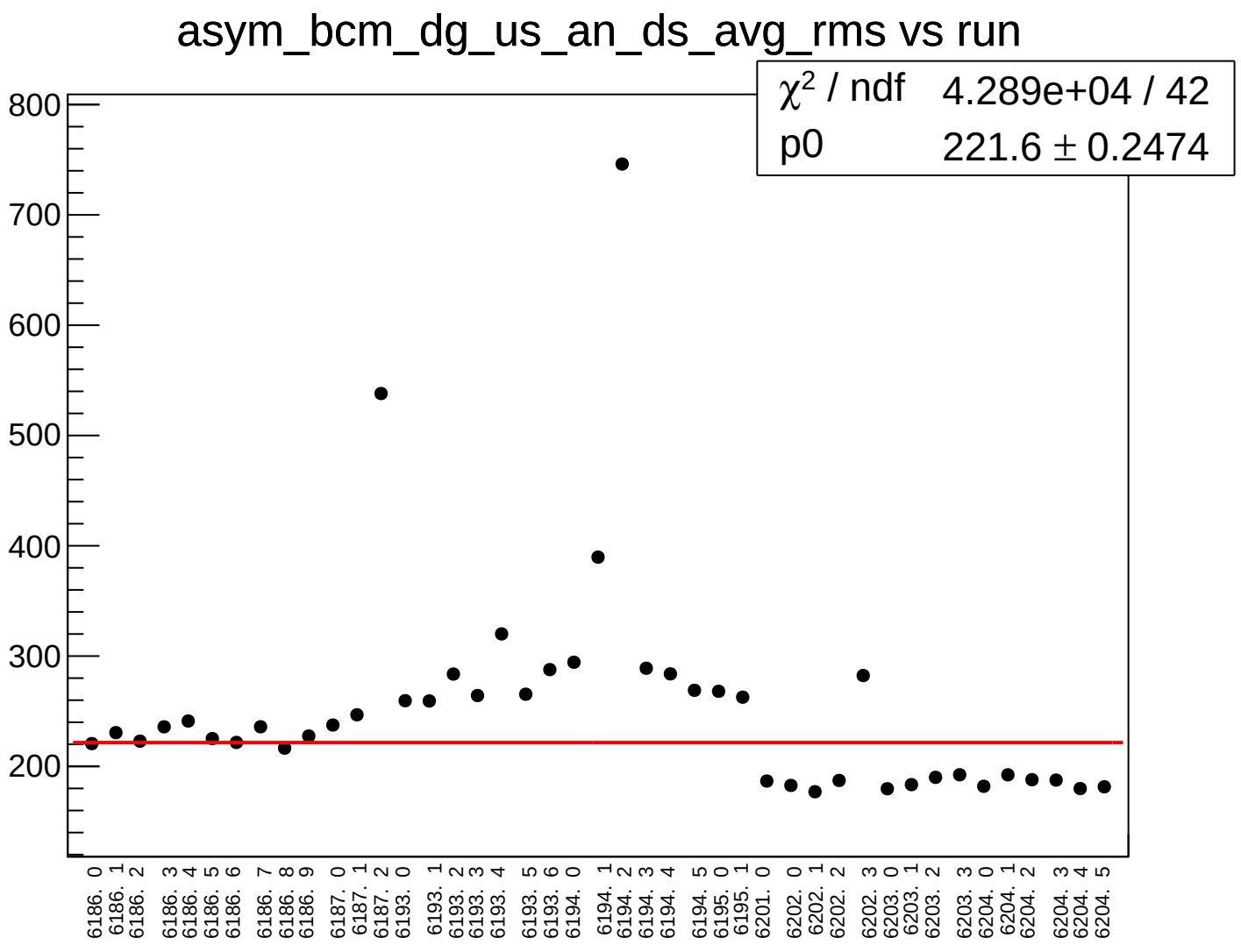

pull1D
Entries 43
Mean −0.002436
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

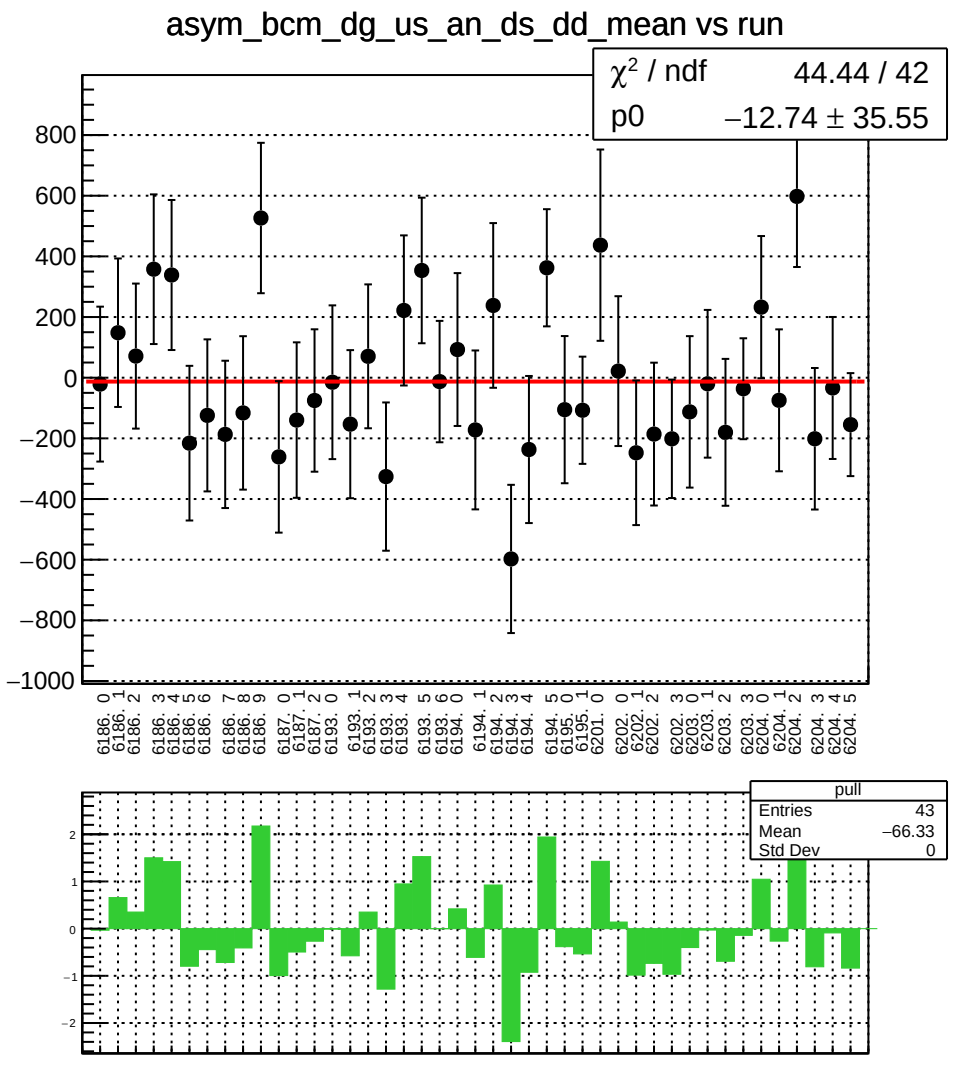

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 4.268e+04 / 42
p0 221.6 ± 0.2473
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

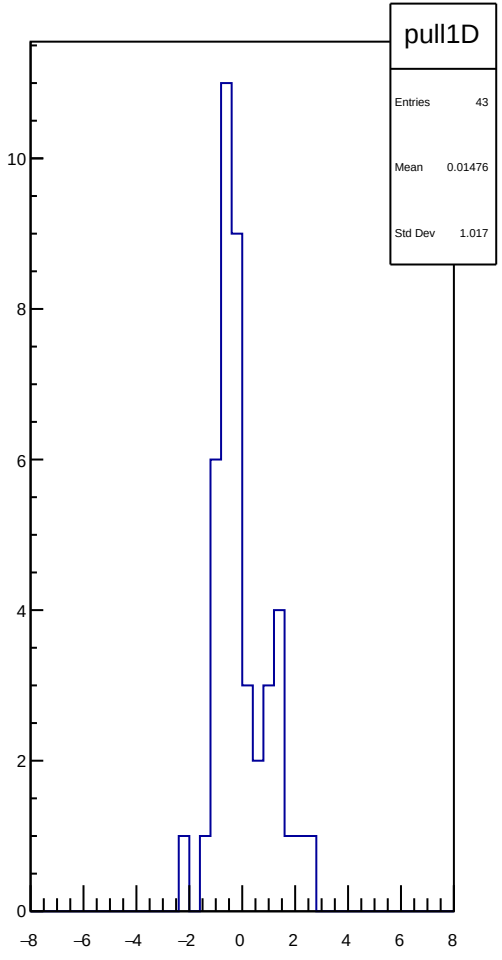

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 43.48 / 42
p0 5.081 ± 26.51
800
600
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 519.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.002635
Std Dev 1.006
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

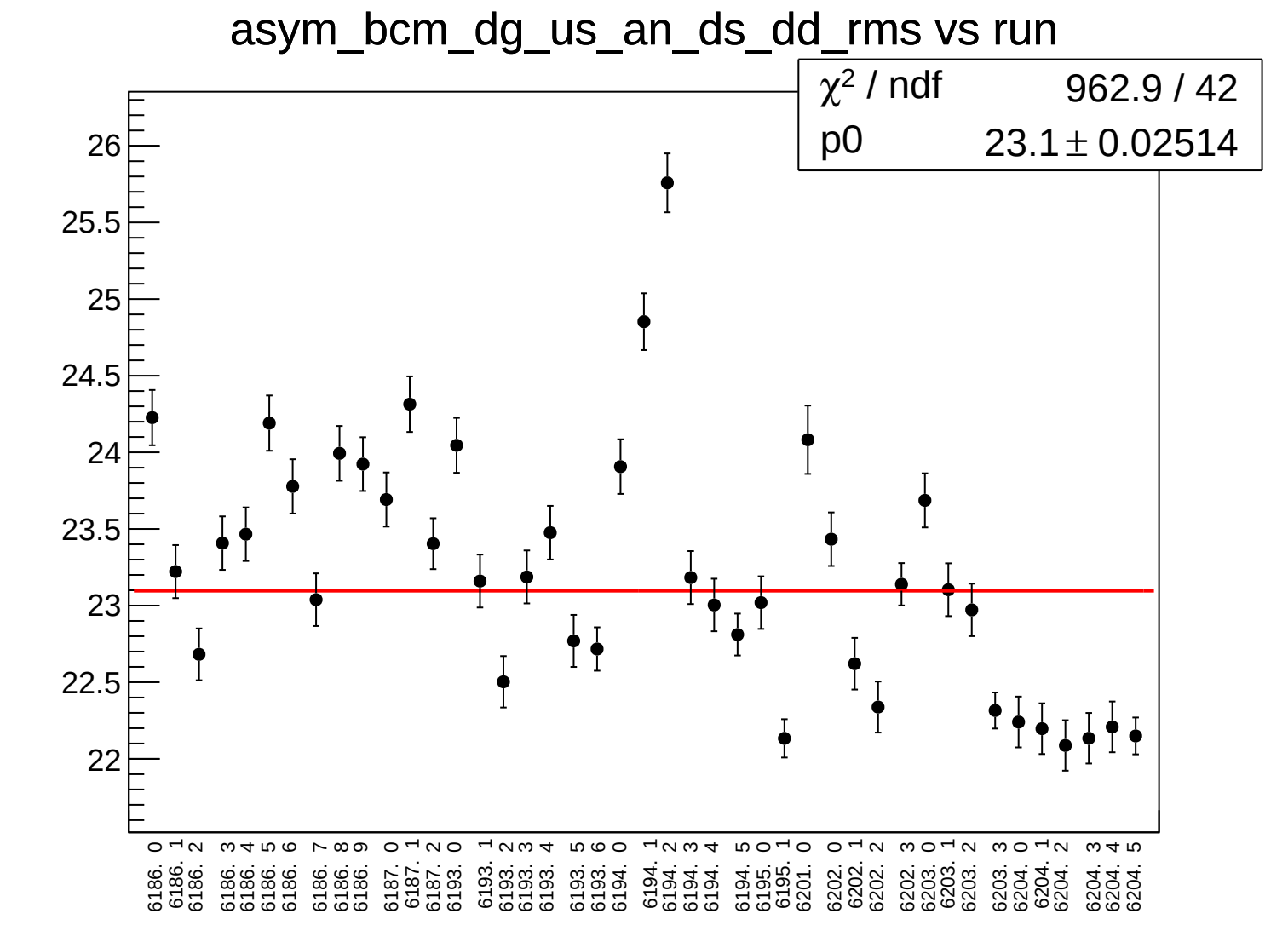

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 900.9 / 42
p0 17.23 ± 0.01875
18.5
18
17.5
17
16.5
16
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

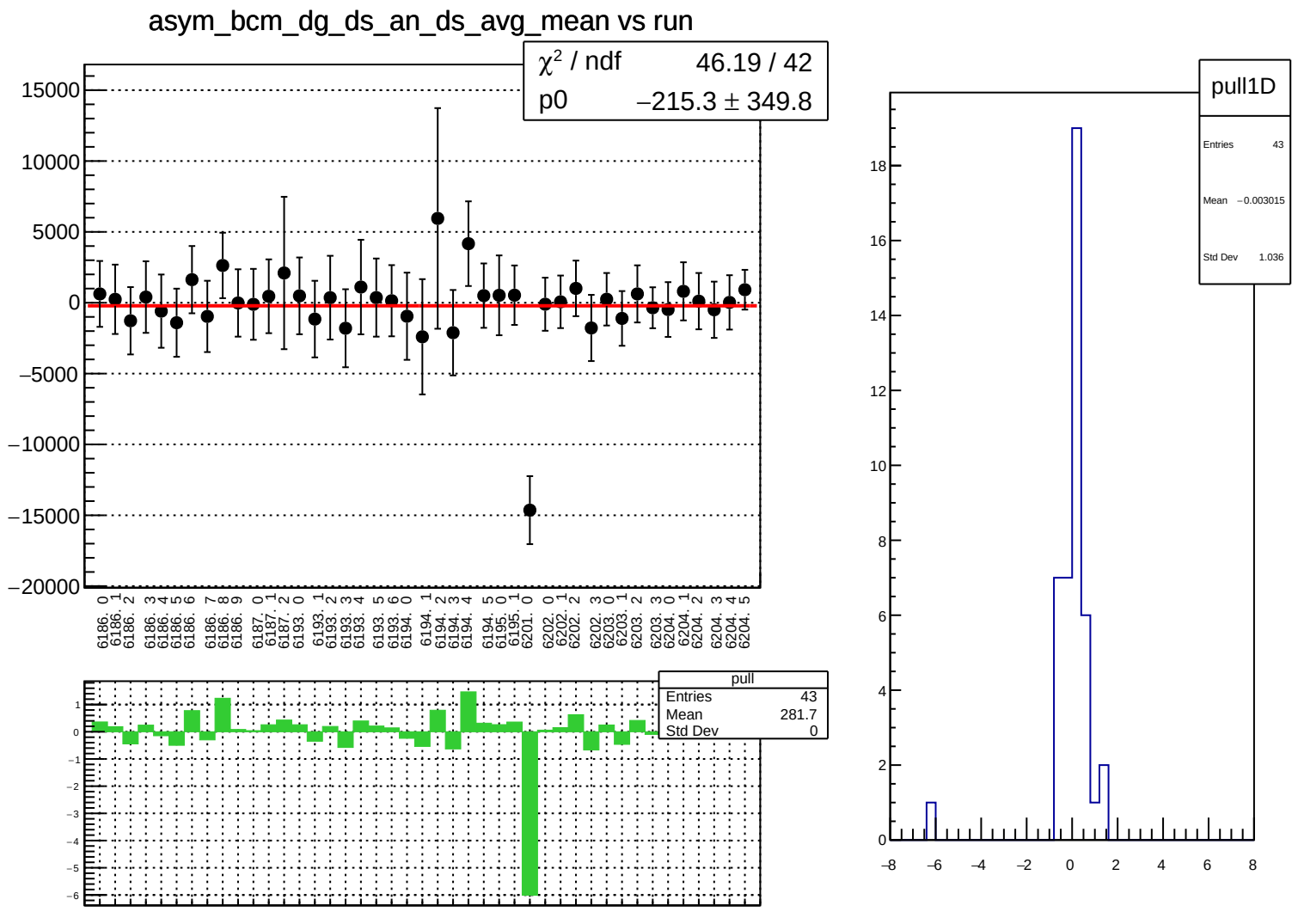

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 45.19 / 42
p0 −201.6 ± 349.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 337.8
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.002936
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

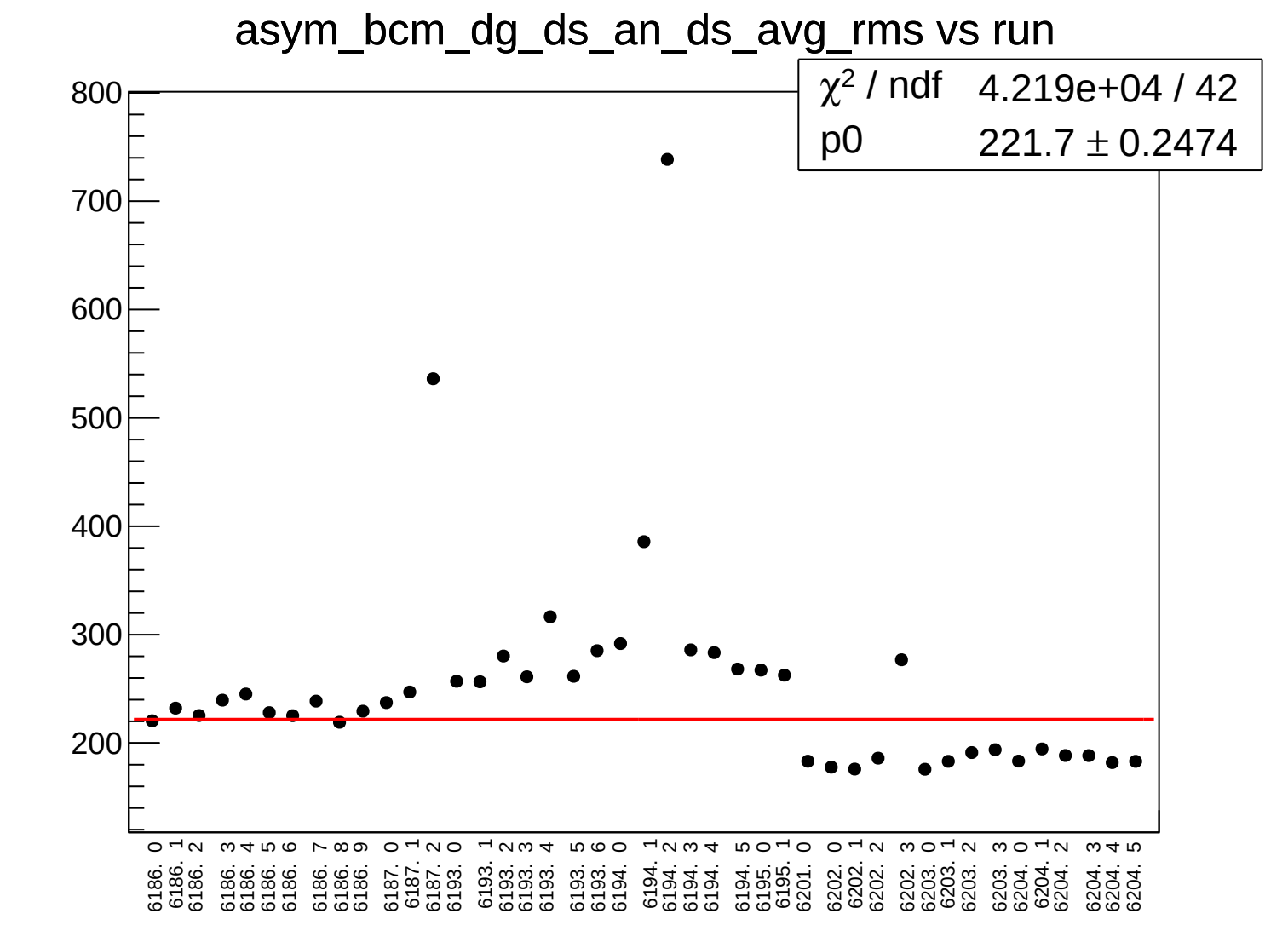

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 4.289e+04 / 42
p0 221.6 ± 0.2474
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

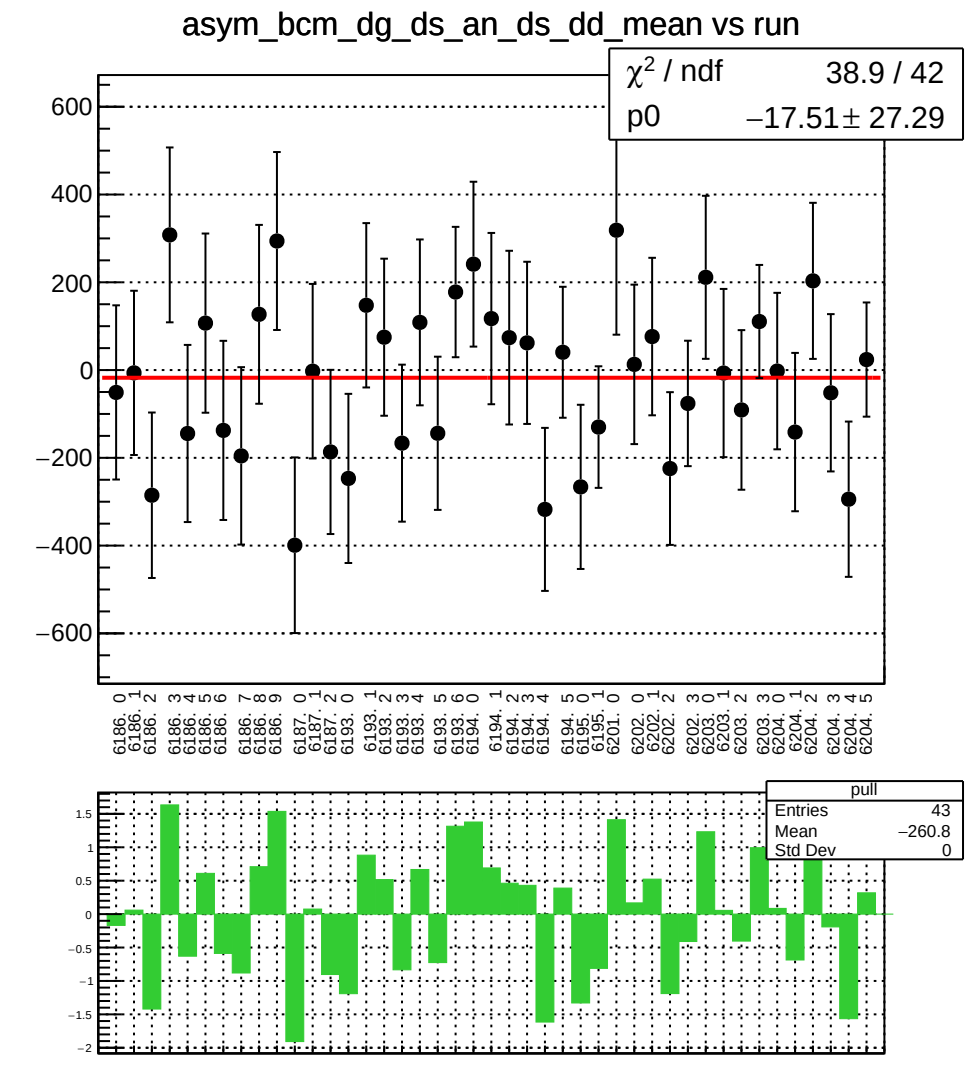

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 44.44 / 42
p0 −12.74 ± 35.55
800
600
400
200
0
−200
−400
−600
−800
−1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −66.33
Std Dev 0
2
1
0
−1
−2

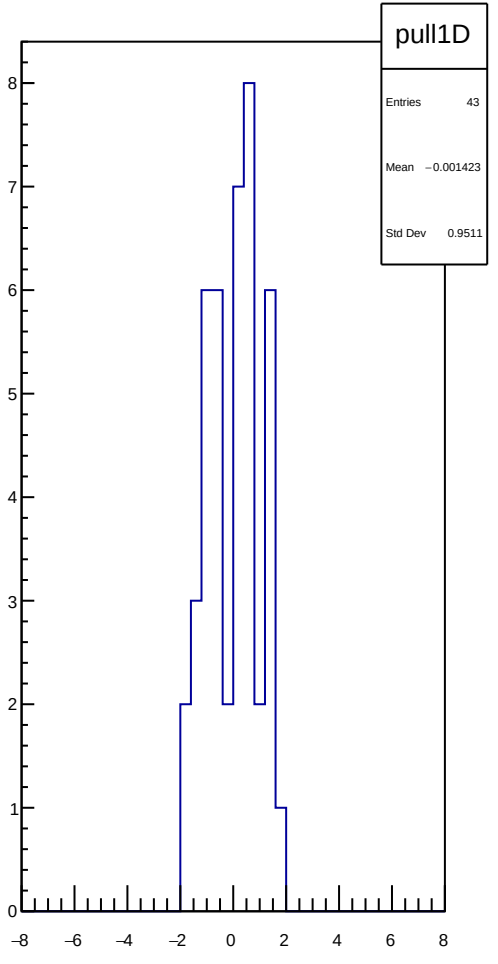

pull1D
Entries 43
Mean 0.01476
Std Dev 1.017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

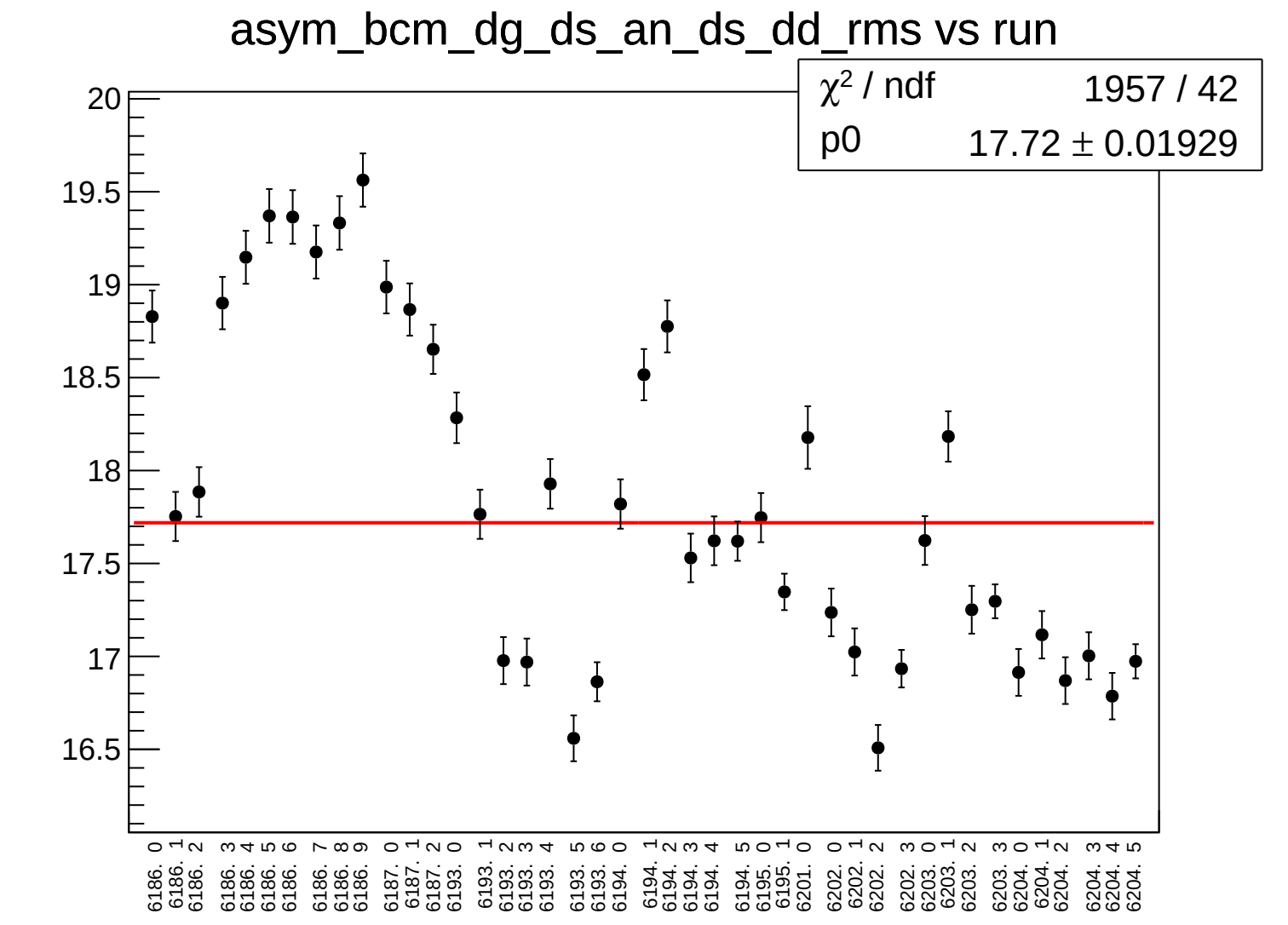

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 962.9 / 42
p0 23.1 ± 0.02514
26
25.5
25
24.5
24
23.5
23
22.5
22
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

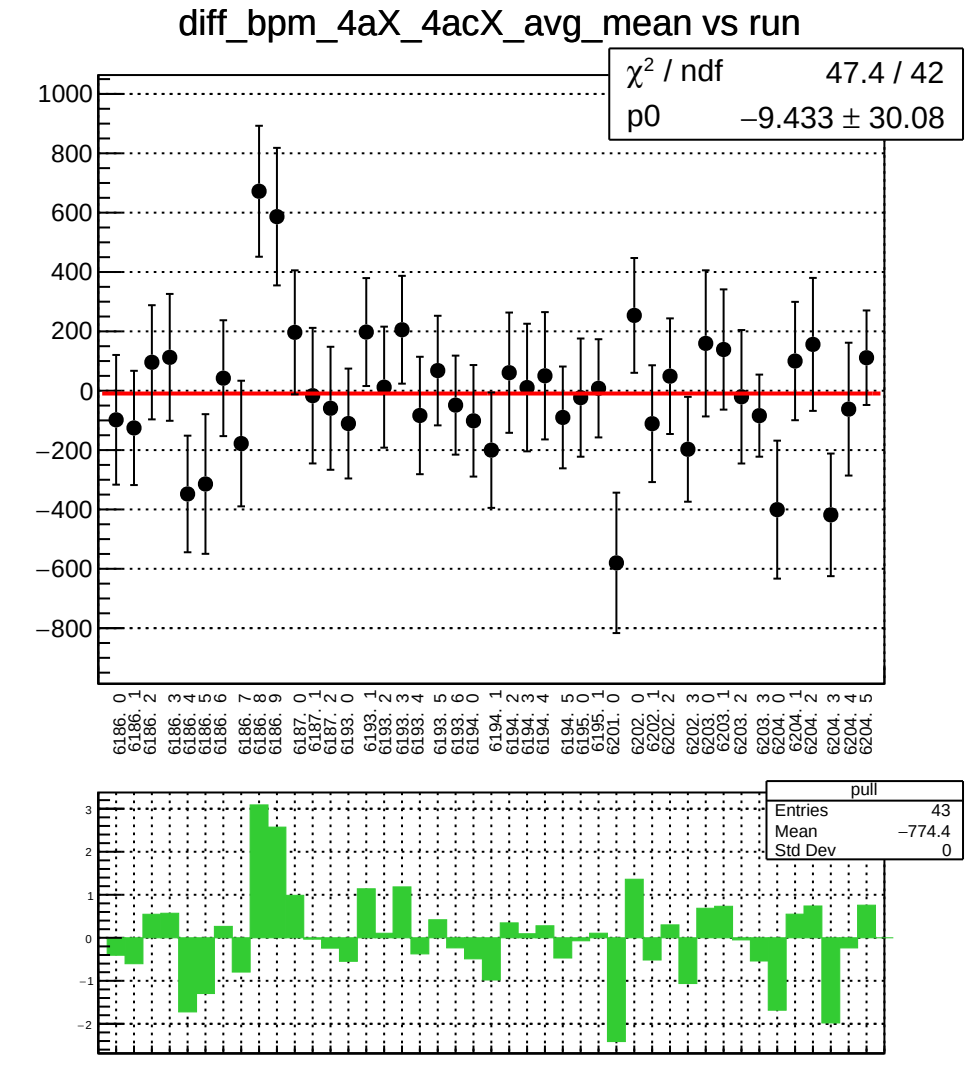

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 46.19 / 42
p0 −215.3 ± 349.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 281.7
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean −0.003015
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

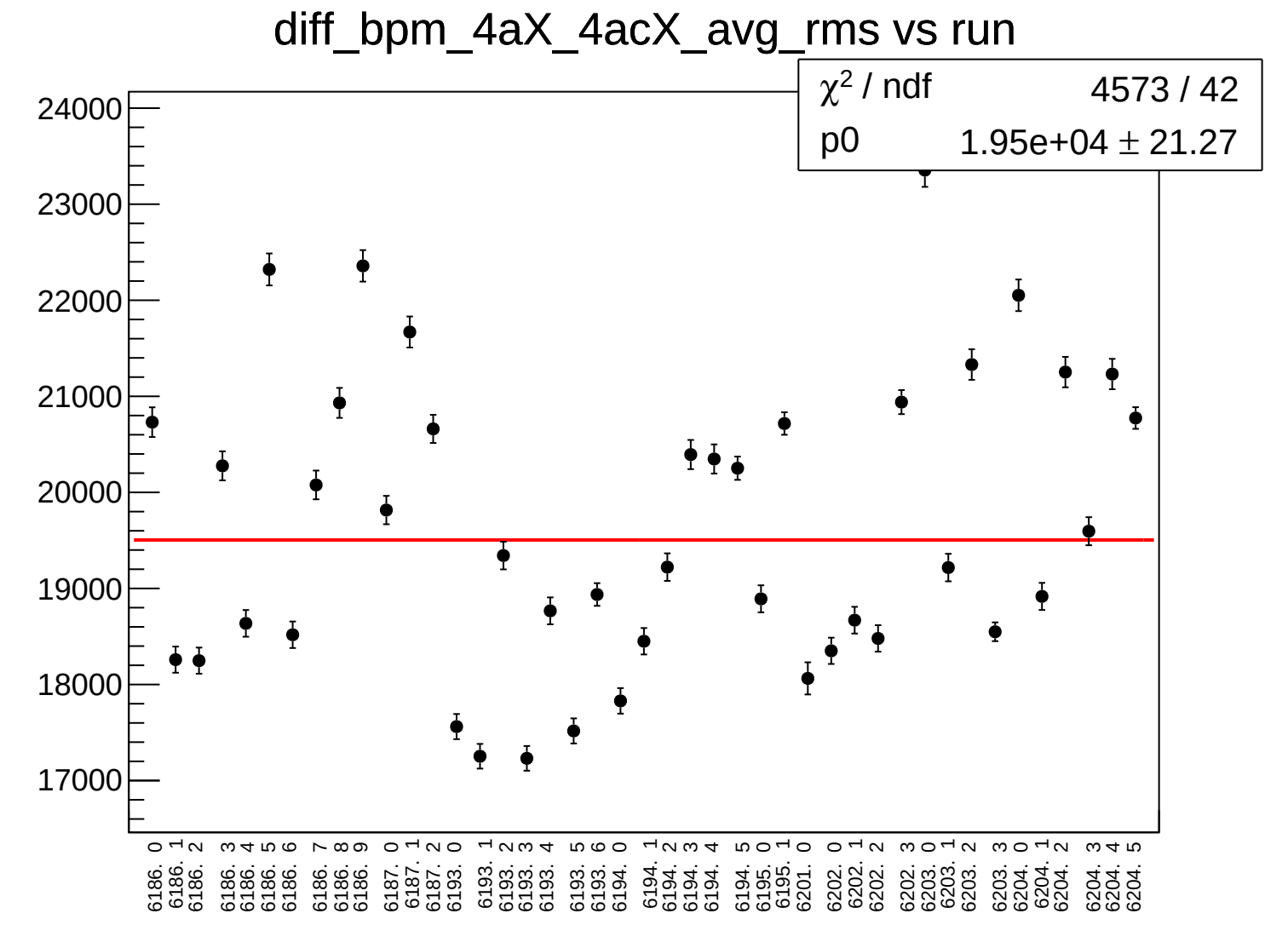

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 4.219e+04 / 42
p0 221.7 ± 0.2474
800
700
600
500
400
300
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

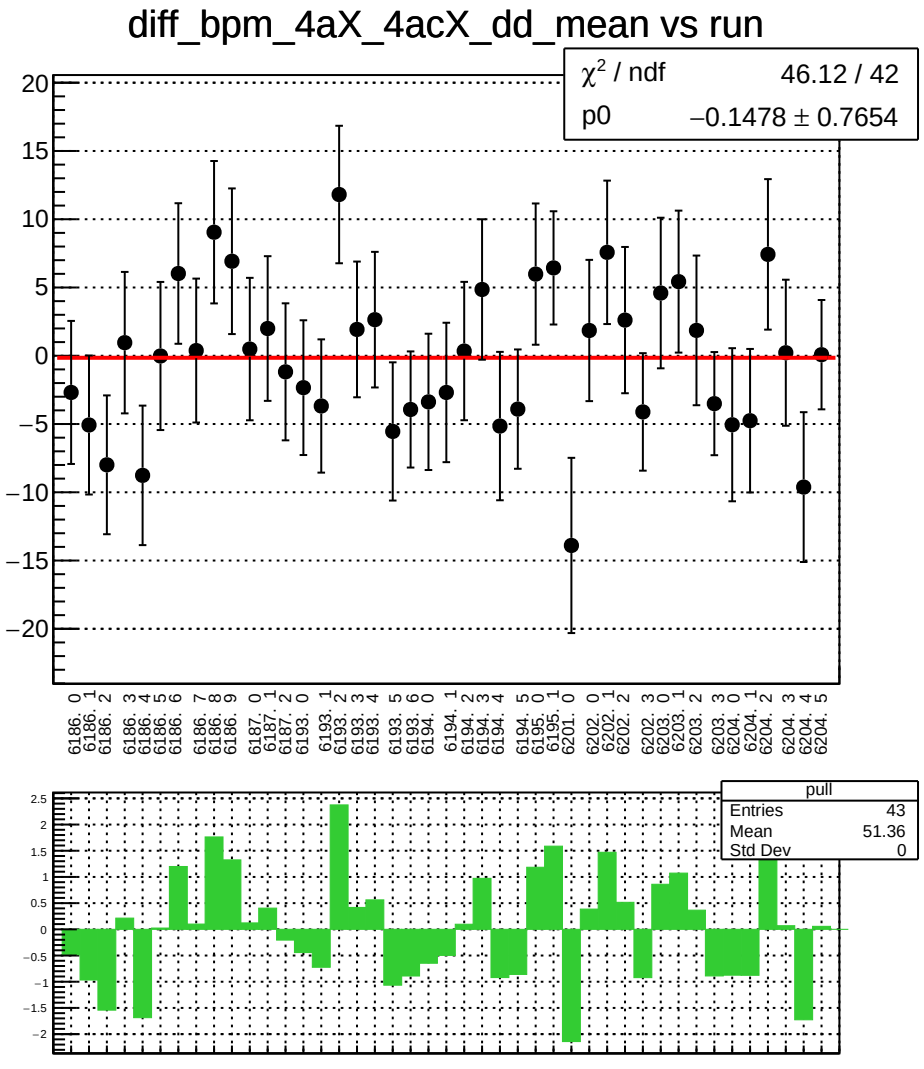

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 38.9 / 42
p0 −17.51± 27.29
600
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −260.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

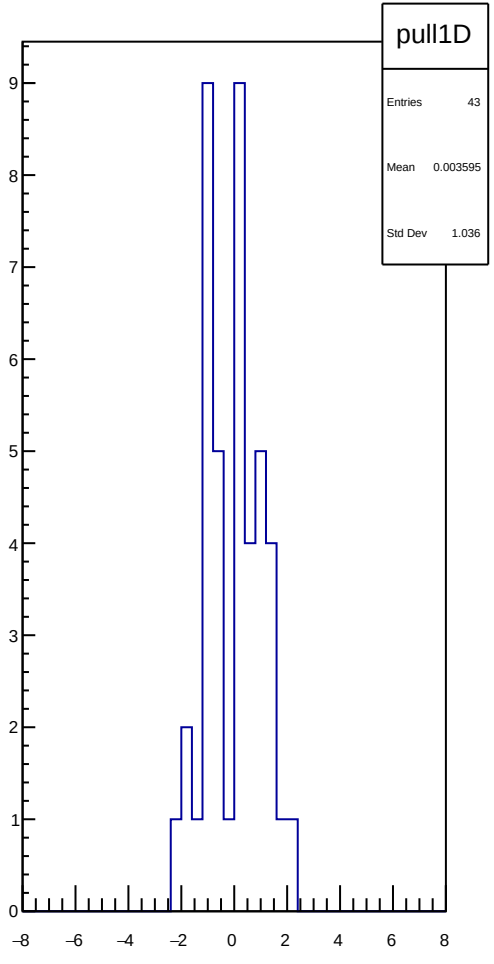

pull1D
Entries 43
Mean −0.001423
Std Dev 0.9511
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

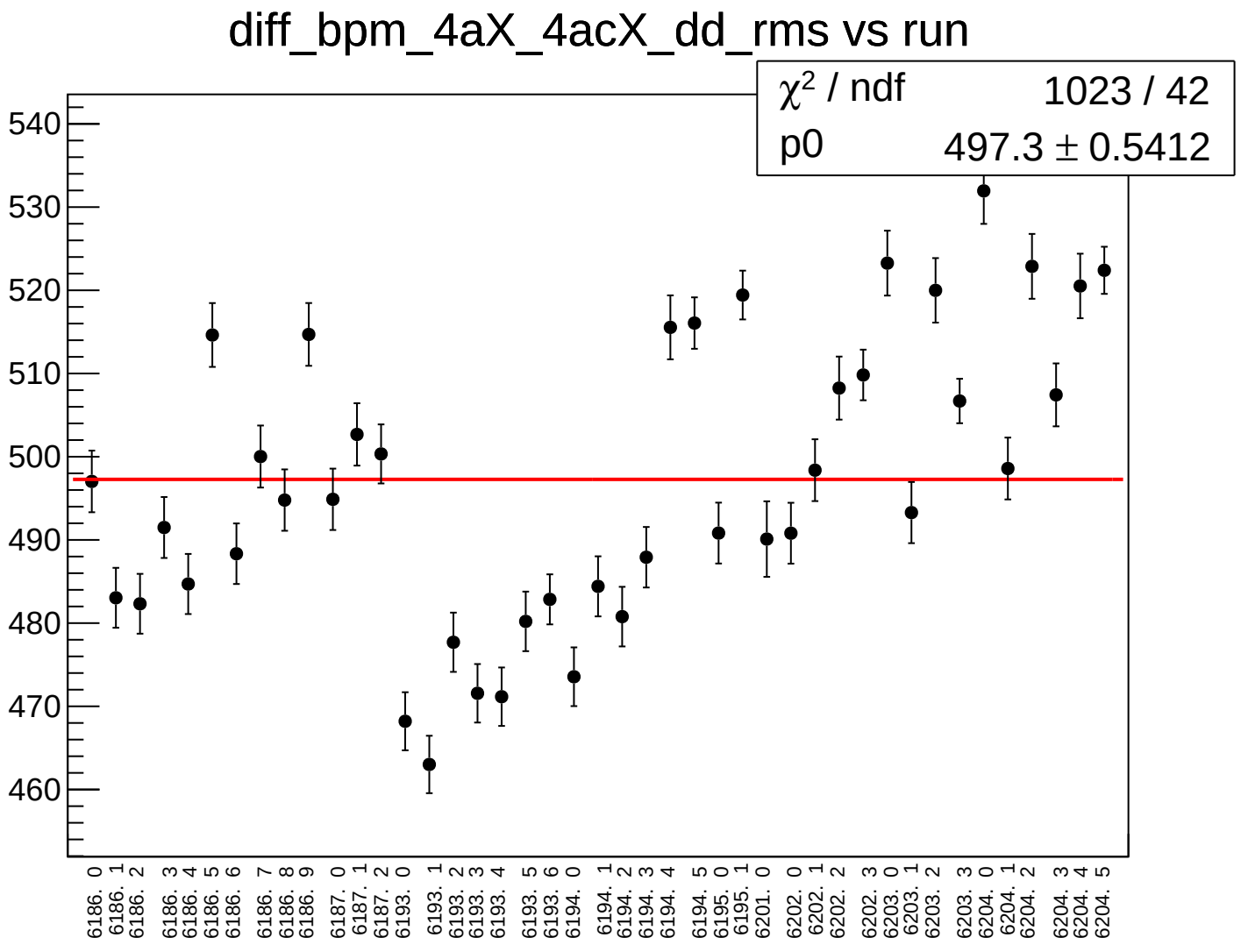

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1957 / 42
p0 17.72 ± 0.01929
20
19.5
19
18.5
18
17.5
17
16.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

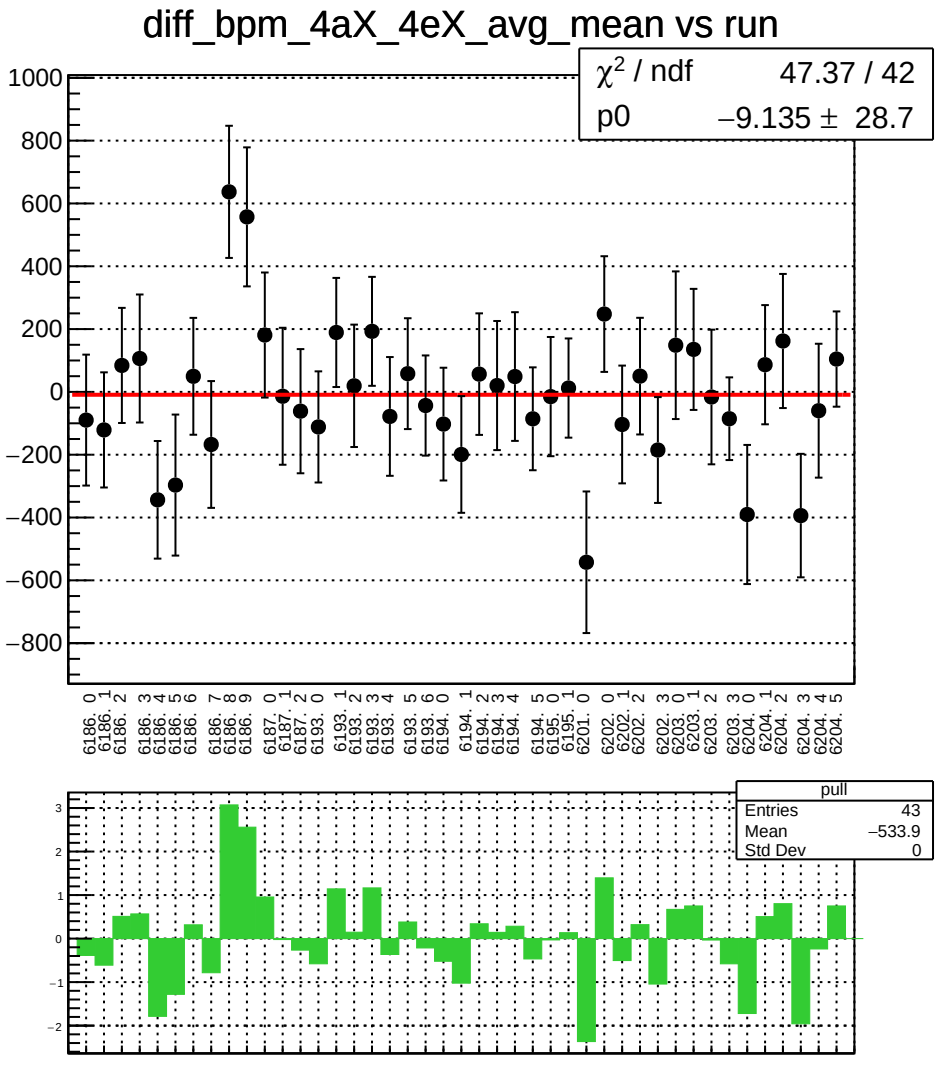

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 47.4 / 42
p0 −9.433 ± 30.08
1000
800
600
400
200
0
−200
−400
−600
−800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −774.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.002119
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

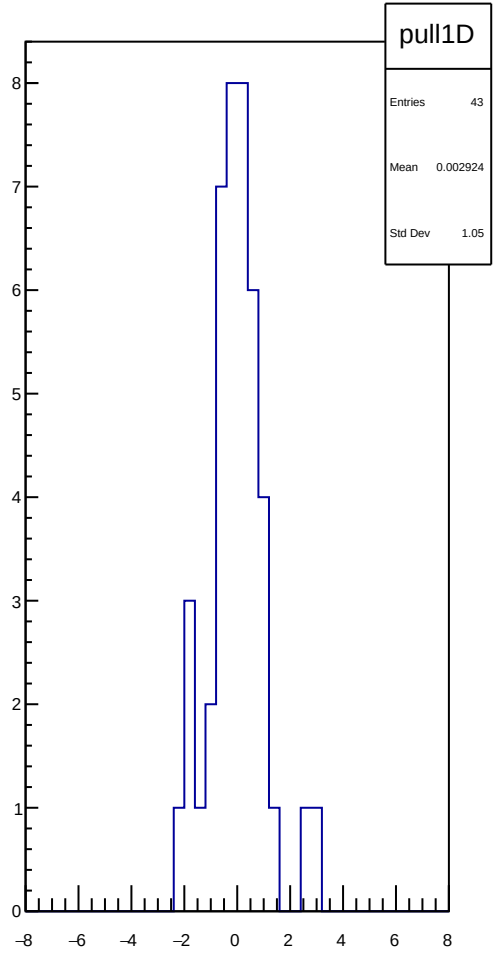

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 4573 / 42
p0 1.95e+04 ± 21.27
24000
23000
22000
21000
20000
19000
18000
17000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

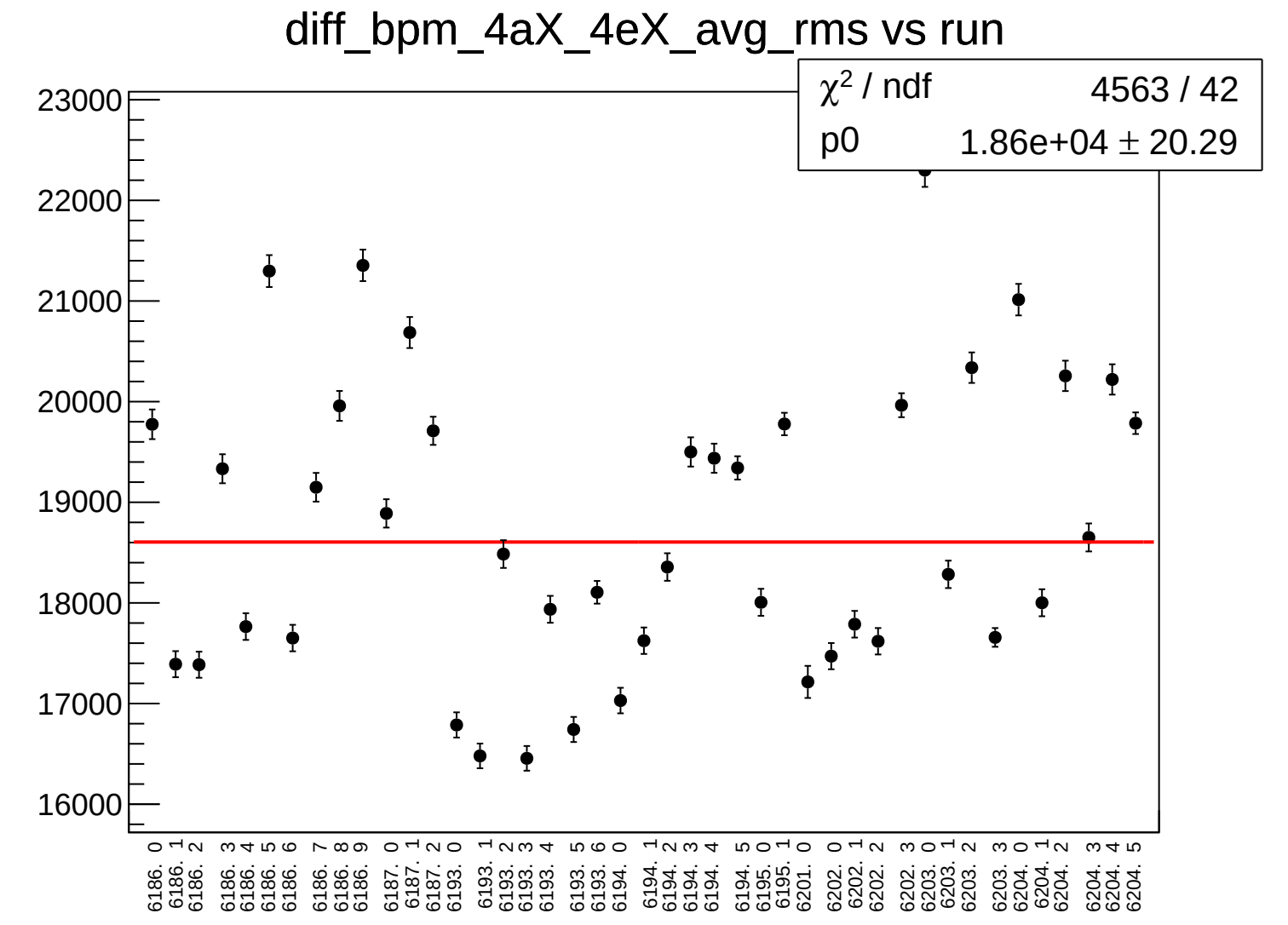

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 46.12 / 42
p0 −0.1478 ± 0.7654
pull
Entries 43
Mean 51.36
Std Dev 0

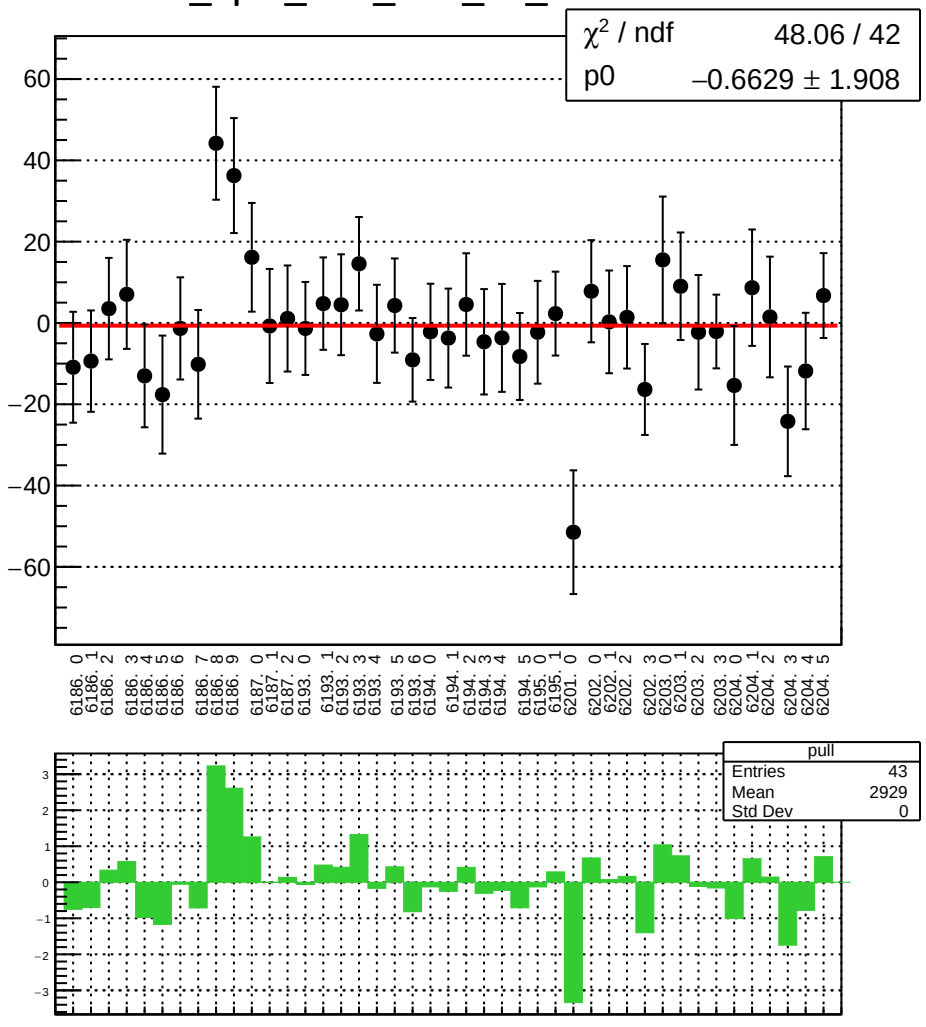

pull1D
Entries 43
Mean 0.003595
Std Dev 1.036

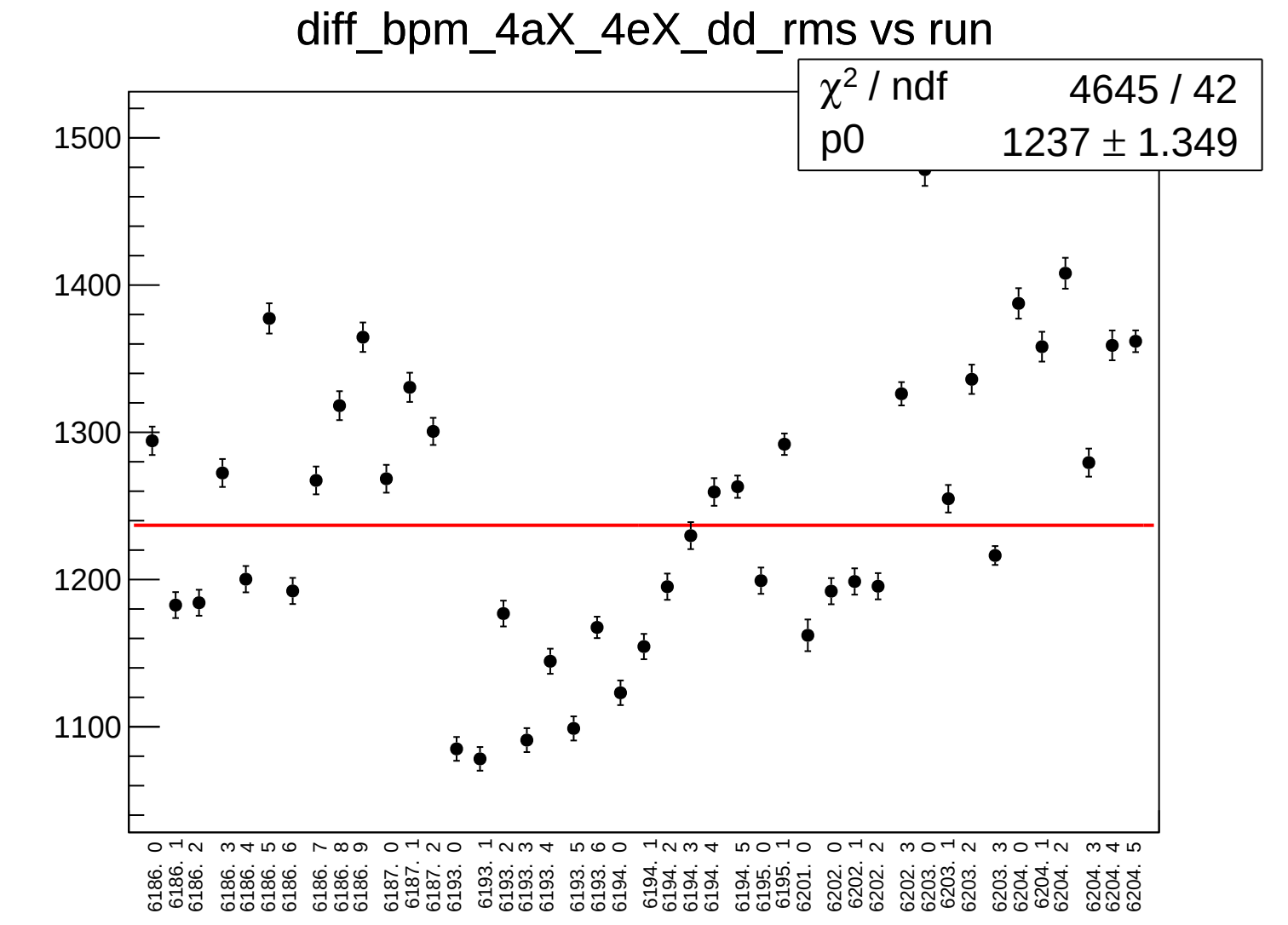

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 1023 / 42
p0 497.3 ± 0.5412
540
530
520
510
500
490
480
470
460
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

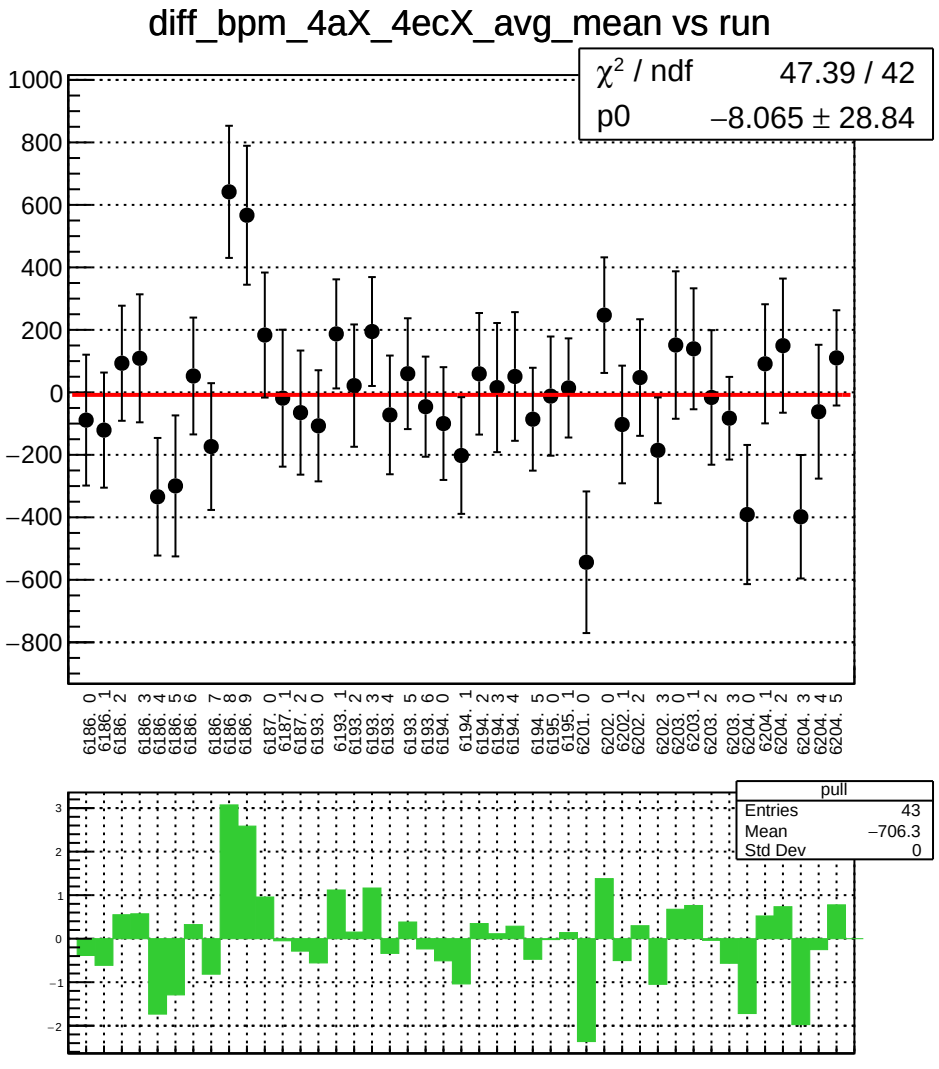

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 47.37 / 42
p0 −9.135 ± 28.7
1000
800
600
400
200
0
−200
−400
−600
−800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −533.9
Std Dev 0
3
2
1
0
−1
−2

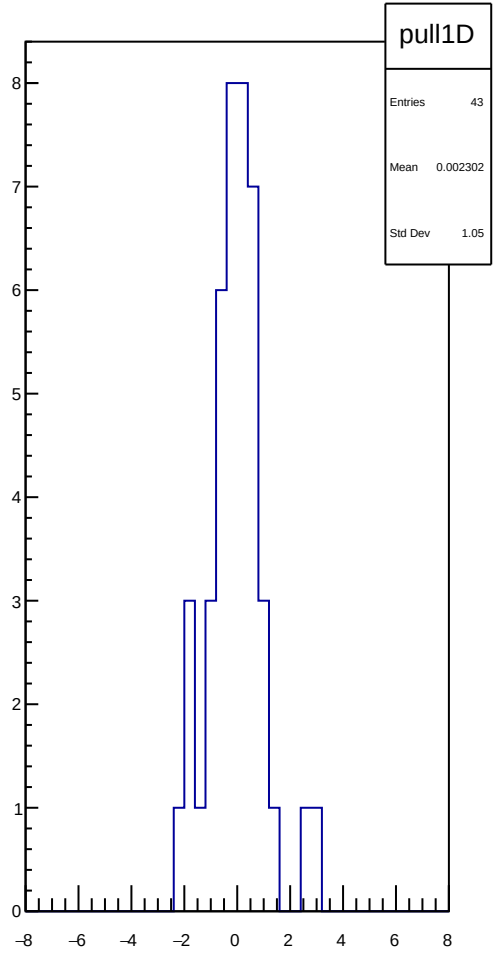

pull1D
Entries 43
Mean 0.002924
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

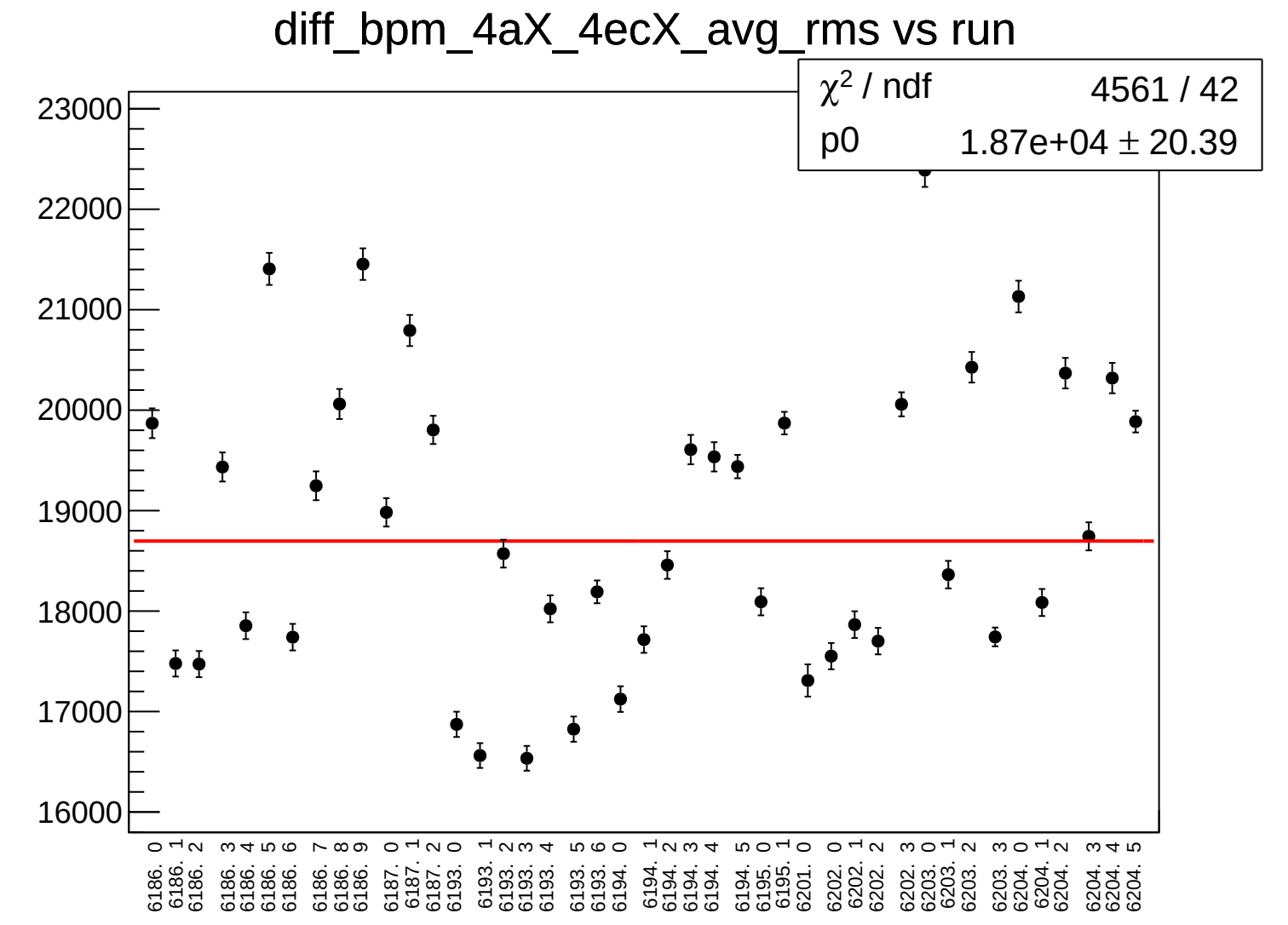

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 4563 / 42
p0 1.86e+04 ± 20.29
23000
22000
21000
20000
19000
18000
17000
16000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

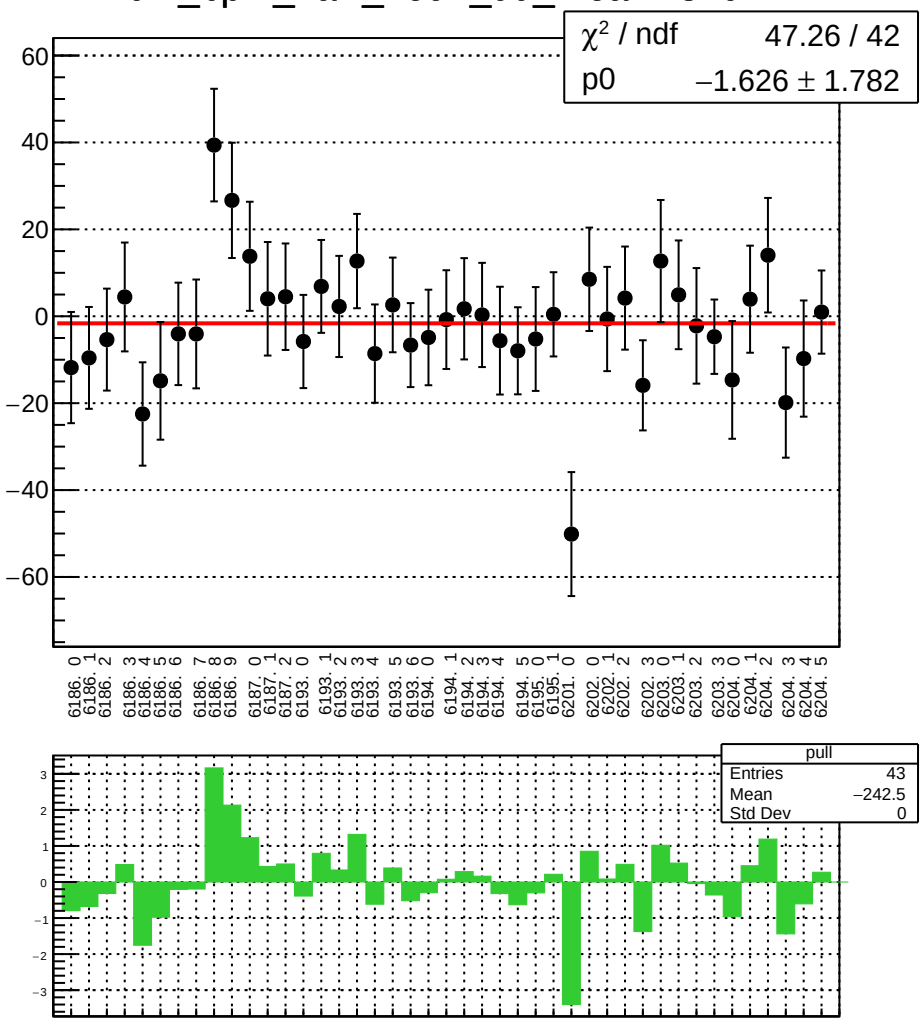

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 48.06 / 42
p0 −0.6629 ± 1.908
pull
Entries 43
Mean 2929
Std Dev 0
pull1D
Entries 43
Mean −0.0007362
Std Dev 1.057

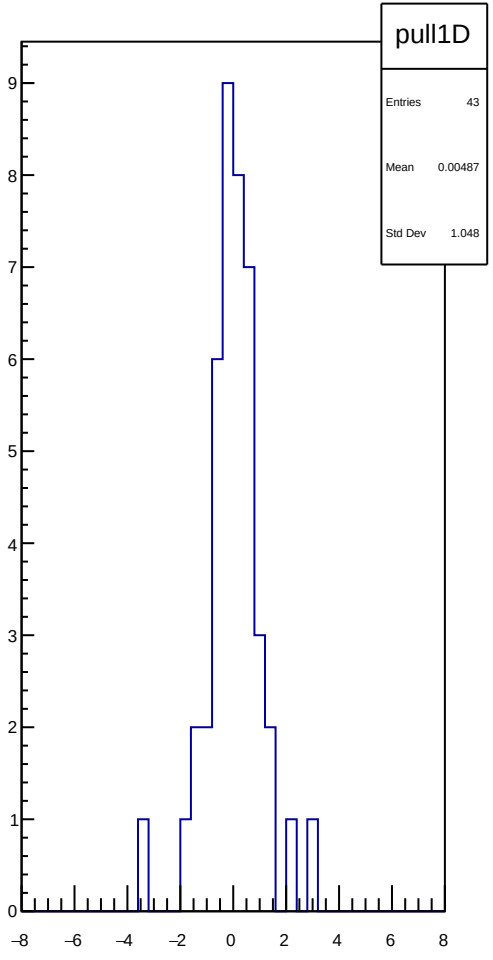

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 4645 / 42
p0 1237 ± 1.349
1500
1400
1300
1200
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

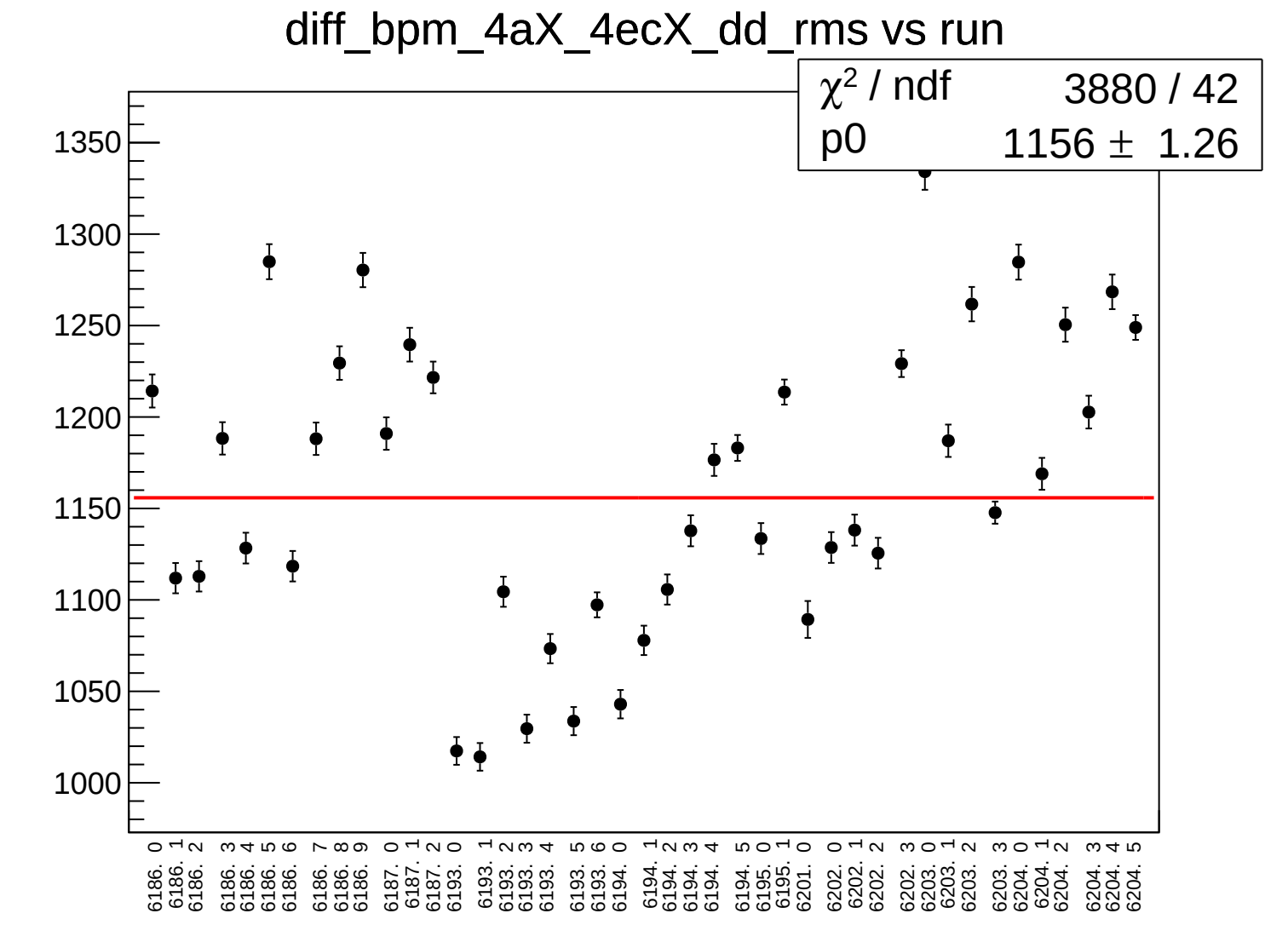

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 47.39 / 42
p0 −8.065 ± 28.84
1000
800
600
400
200
0
−200
−400
−600
−800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −706.3
Std Dev 0
3
2
1
0
−1
−2

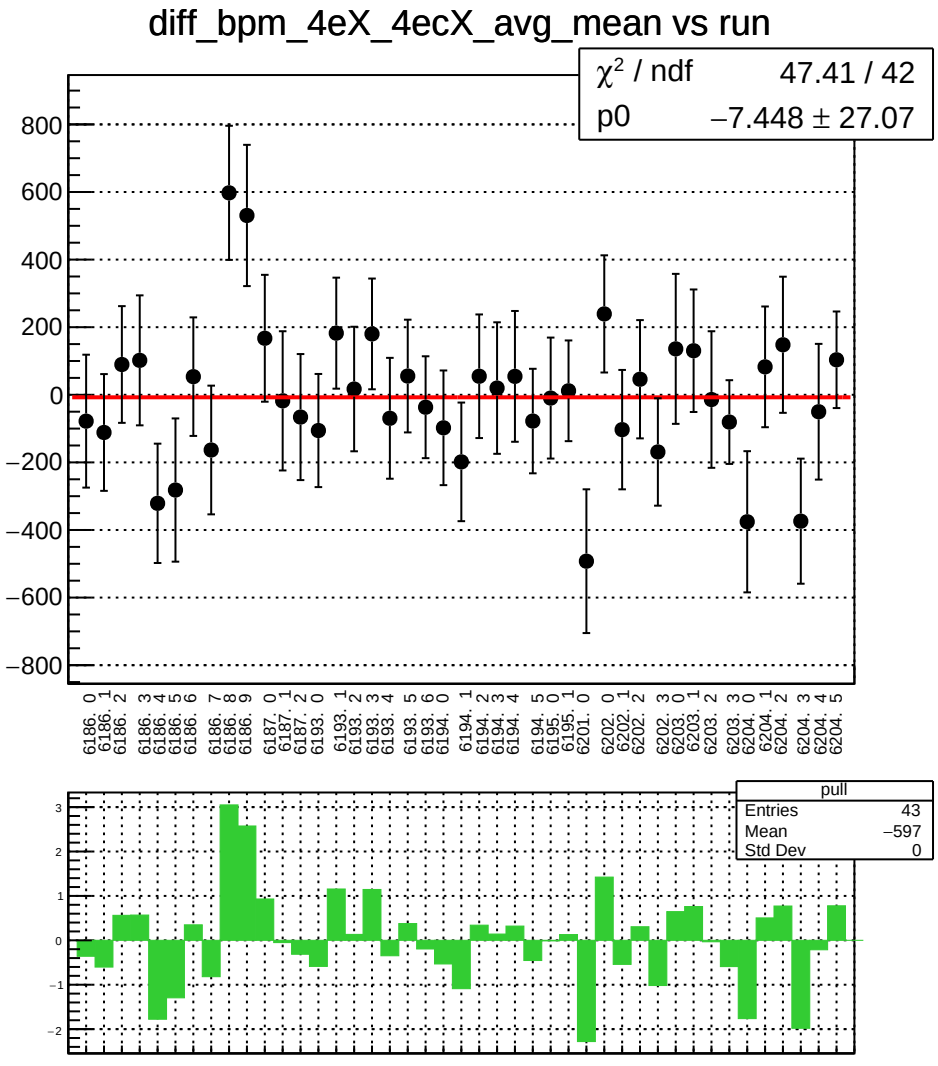

pull1D
Entries 43
Mean 0.002302
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

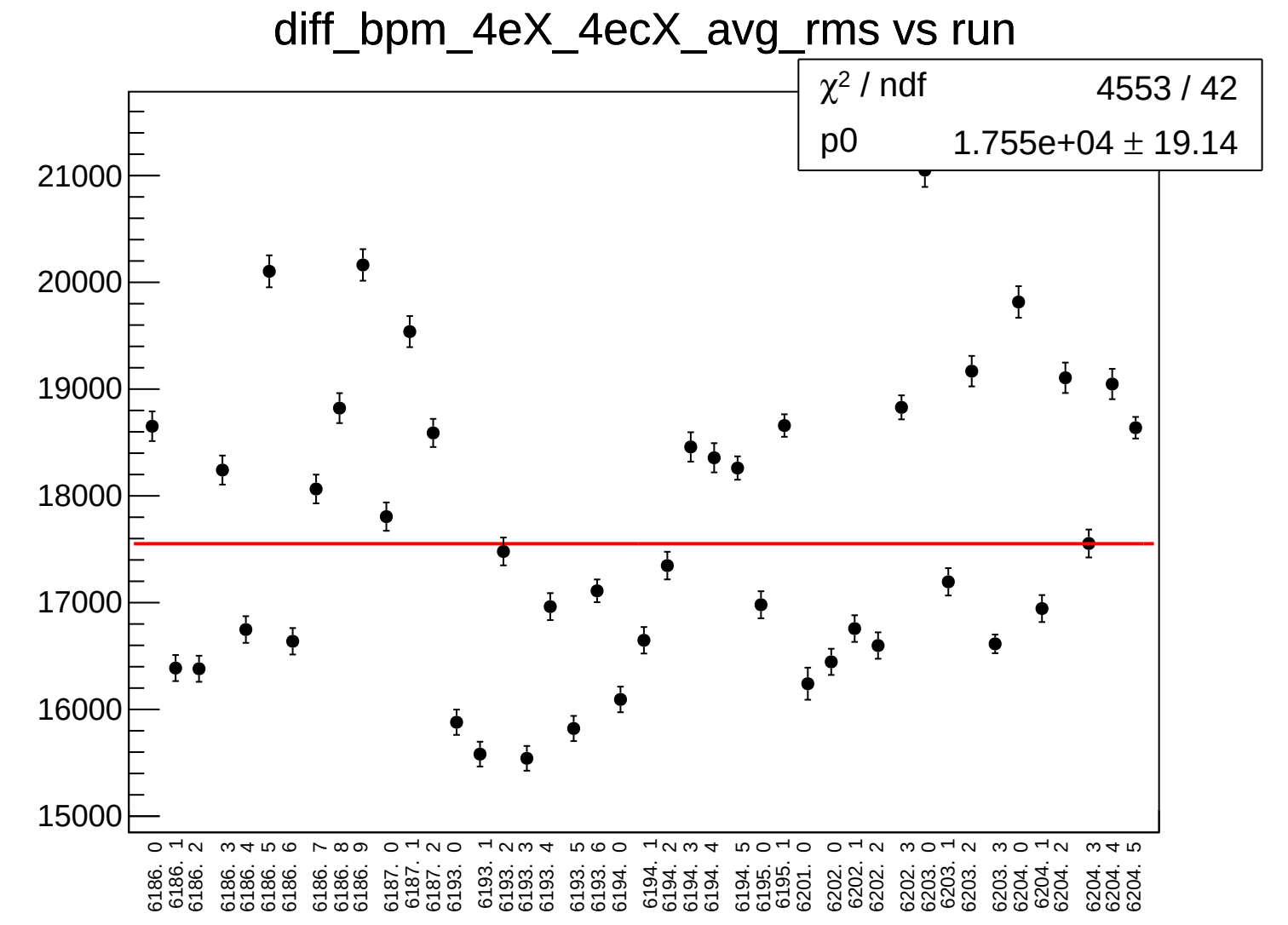

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 4561 / 42
p0 1.87e+04 ± 20.39
23000
22000
21000
20000
19000
18000
17000
16000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

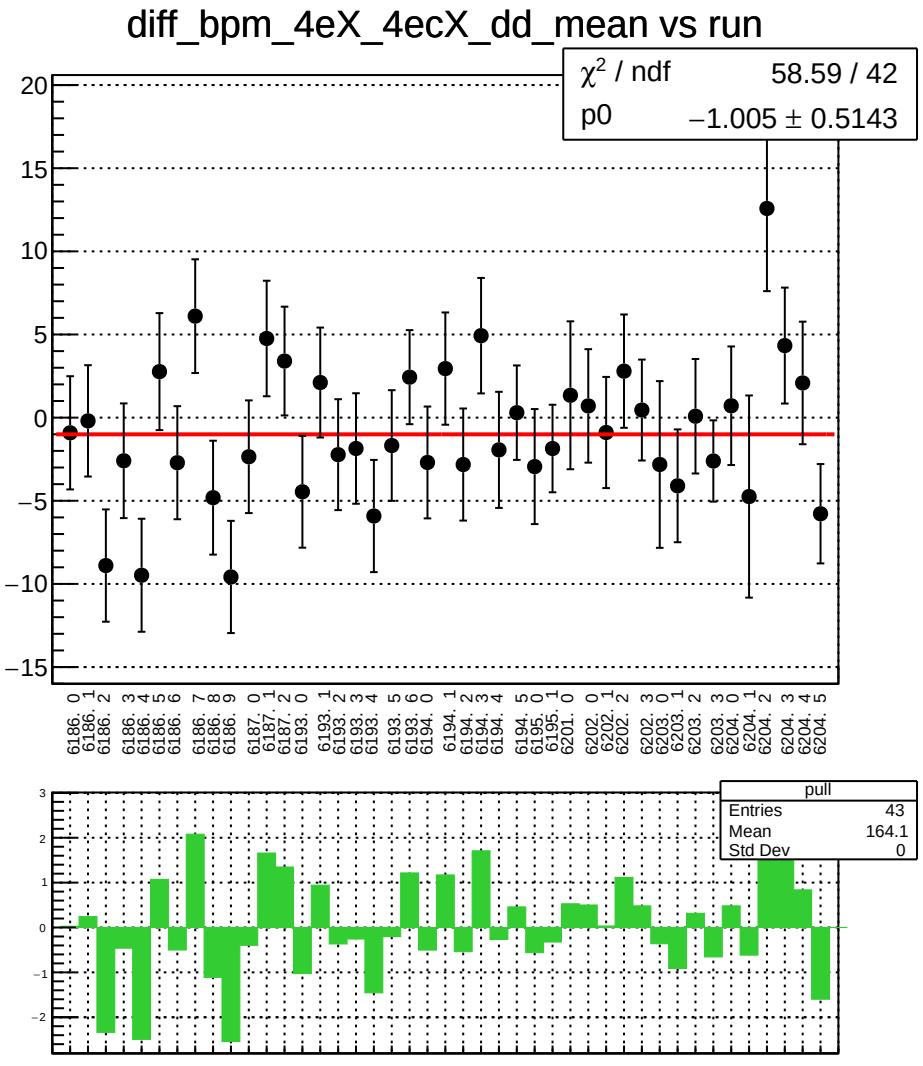

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 47.26 / 42
p0 −1.626 ± 1.782
pull
Entries 43
Mean −242.5
Std Dev 0

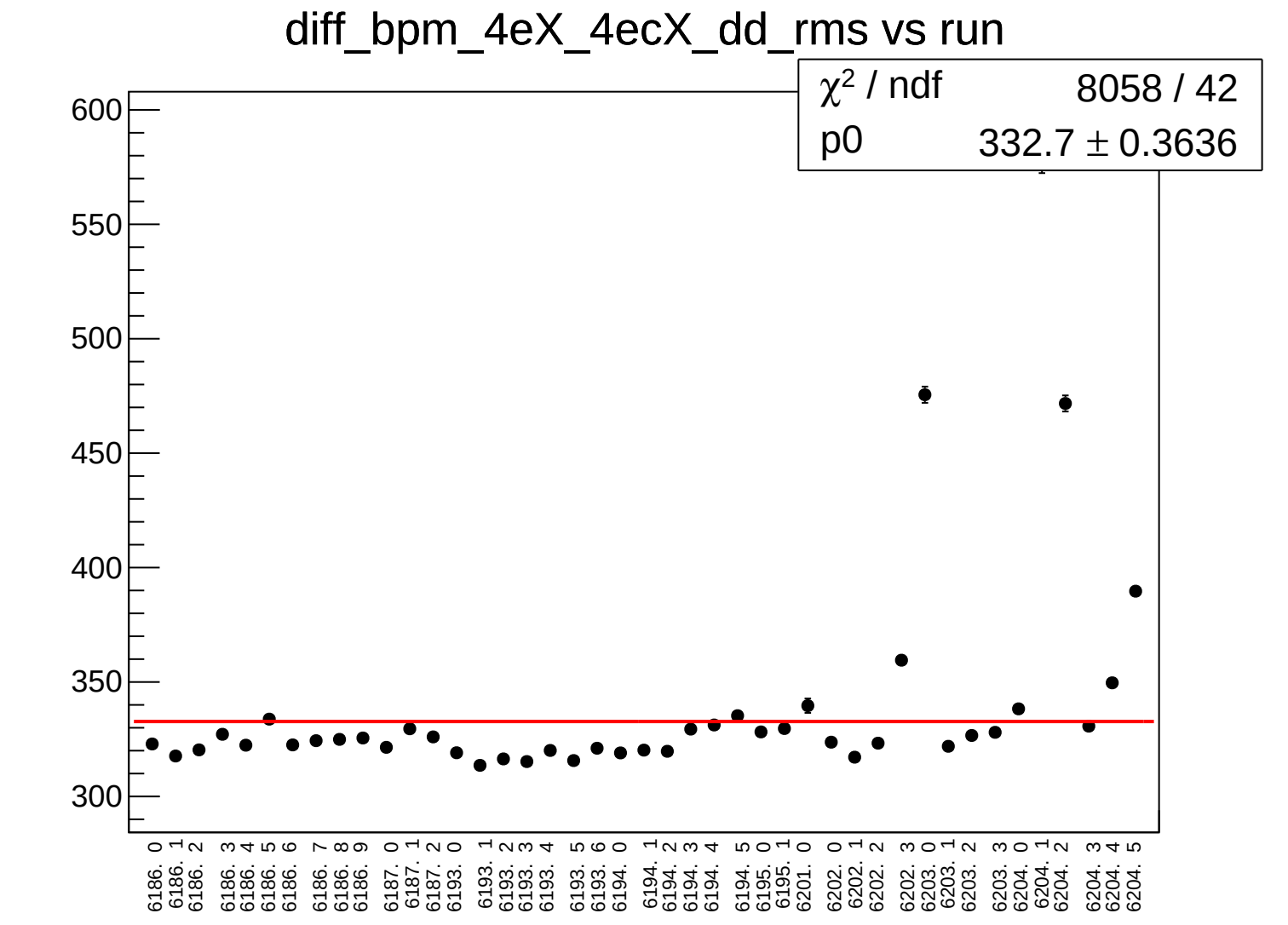

pull1D
Entries 43
Mean 0.00487
Std Dev 1.048

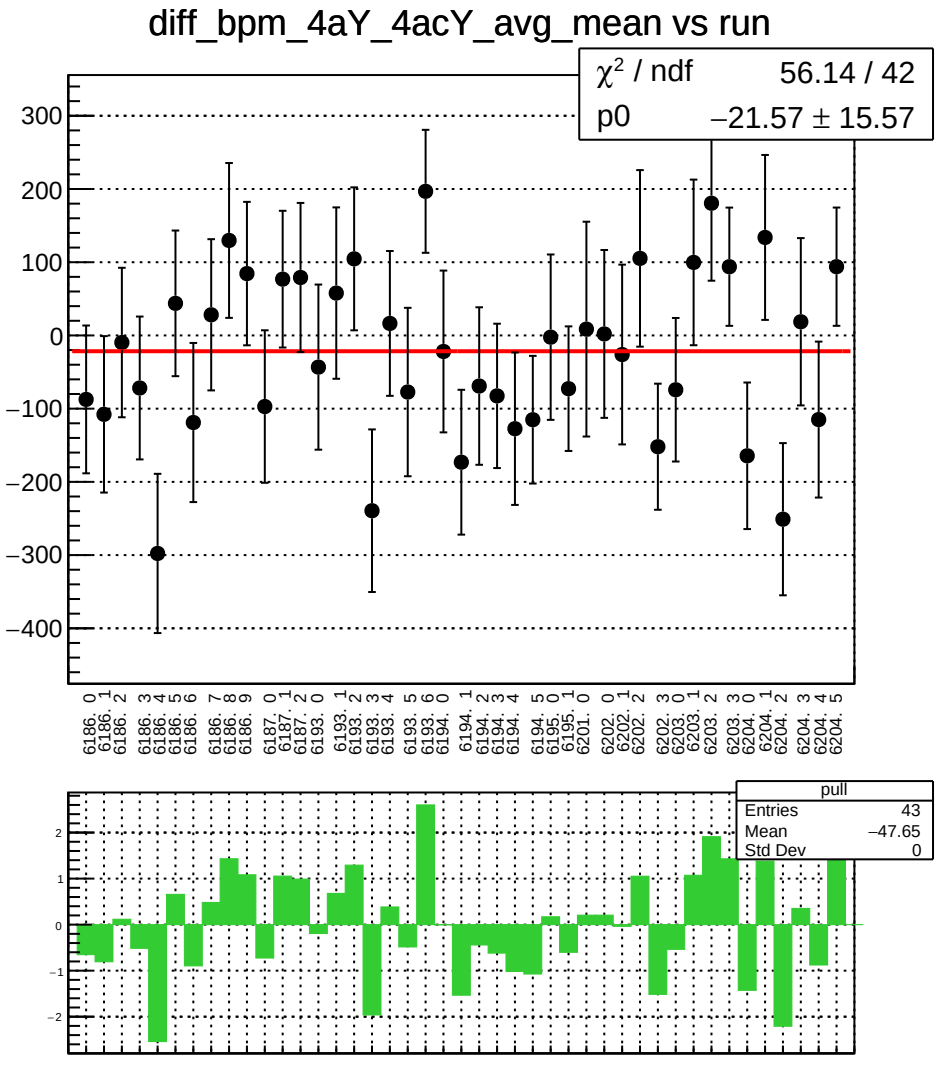

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 3880 / 42
p0 1156 ± 1.26
1350
1300
1250
1200
1150
1100
1050
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

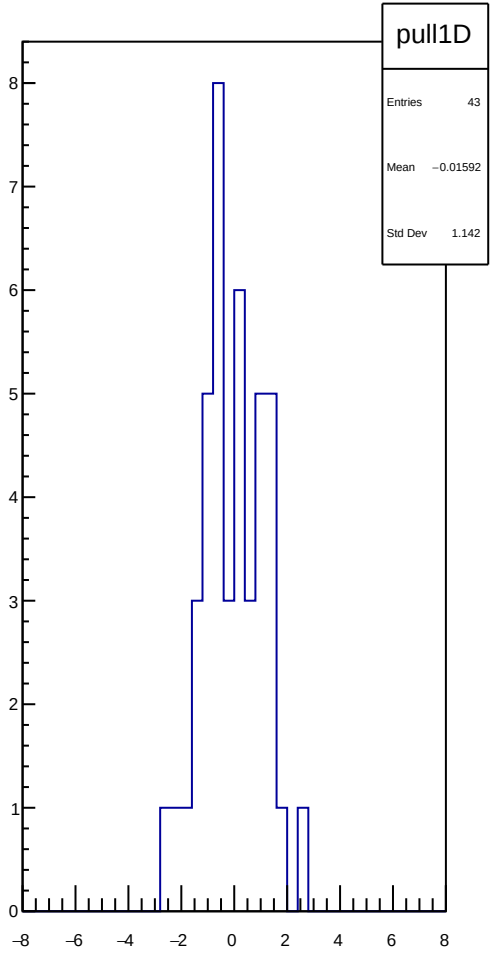

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 47.41 / 42
p0 −7.448 ± 27.07
800
600
400
200
0
−200
−400
−600
−800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −597
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.002649
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

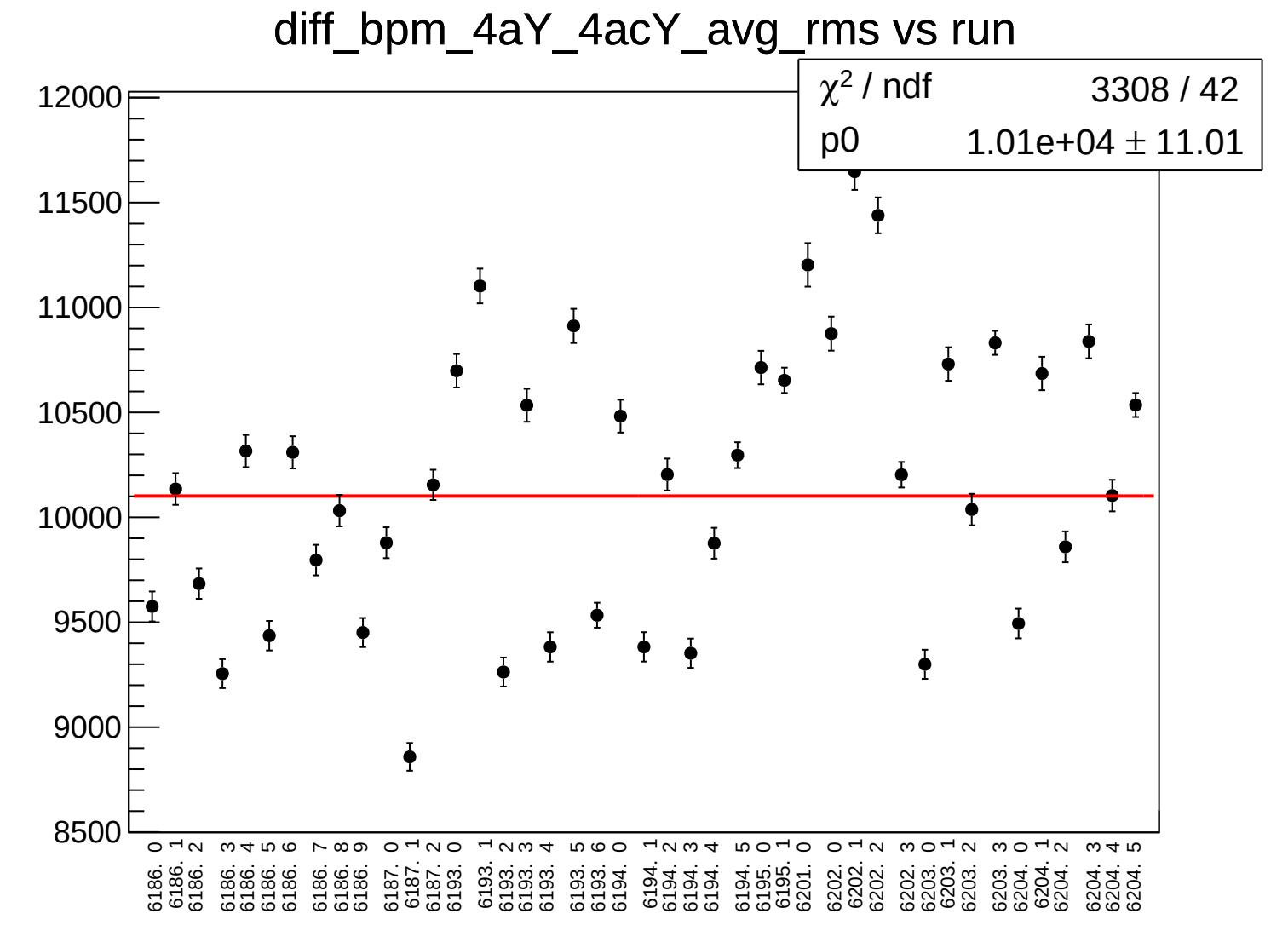

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 4553 / 42
p0 1.755e+04 ± 19.14
21000
20000
19000
18000
17000
16000
15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

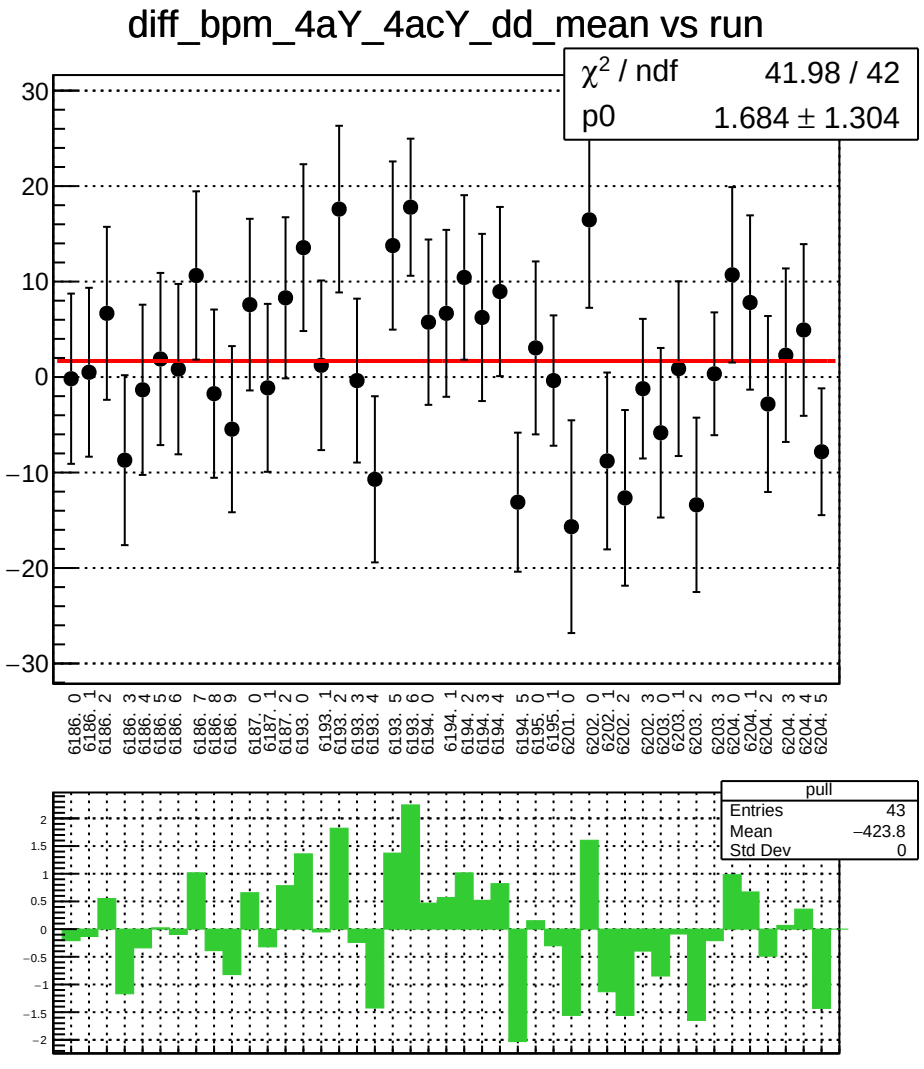

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 58.59 / 42
p0 −1.005 ± 0.5143
pull
Entries 43
Mean 164.1
Std Dev 0
pull1D
Entries 43
Mean 0.02314
Std Dev 1.167

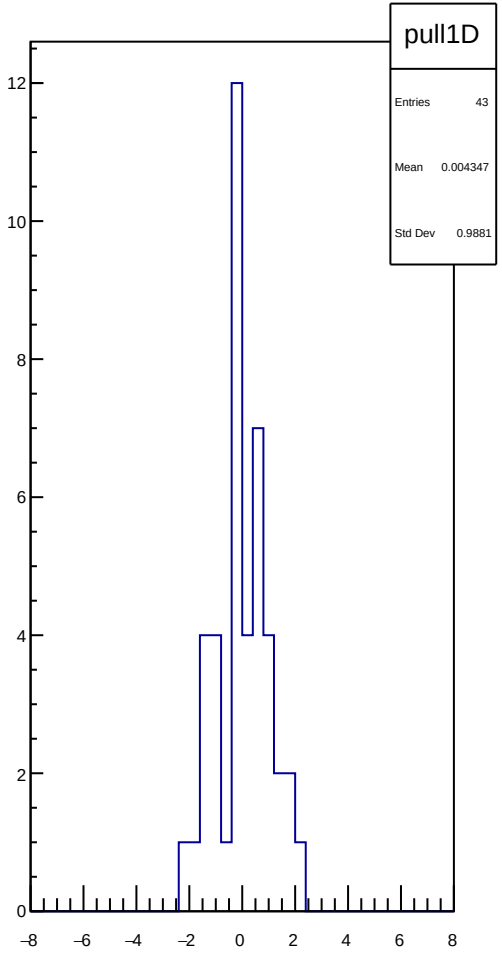

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 8058 / 42
p0 332.7 ± 0.3636
600
550
500
450
400
350
300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

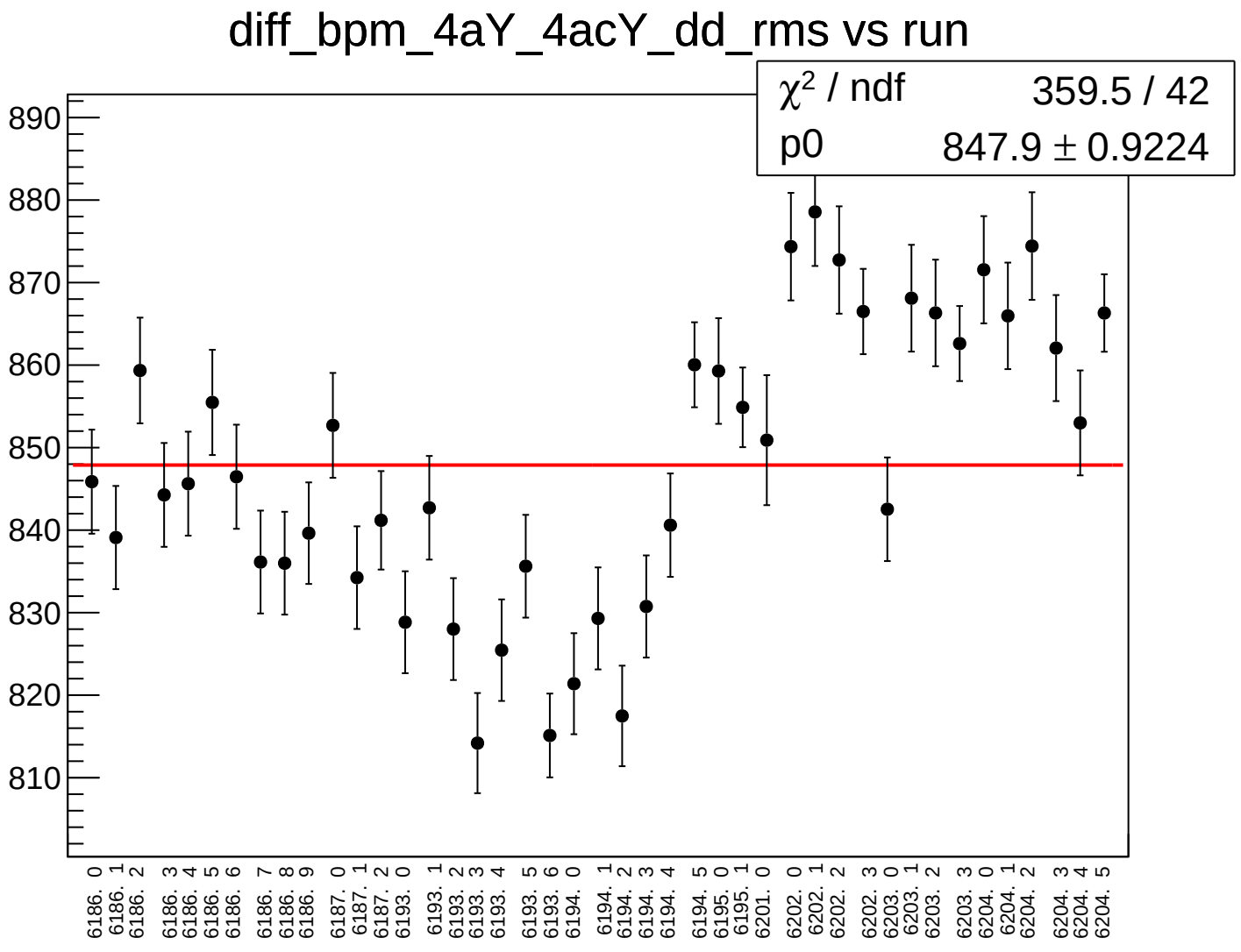

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 56.14 / 42
p0 −21.57 ± 15.57
pull
Entries 43
Mean −47.65
Std Dev 0

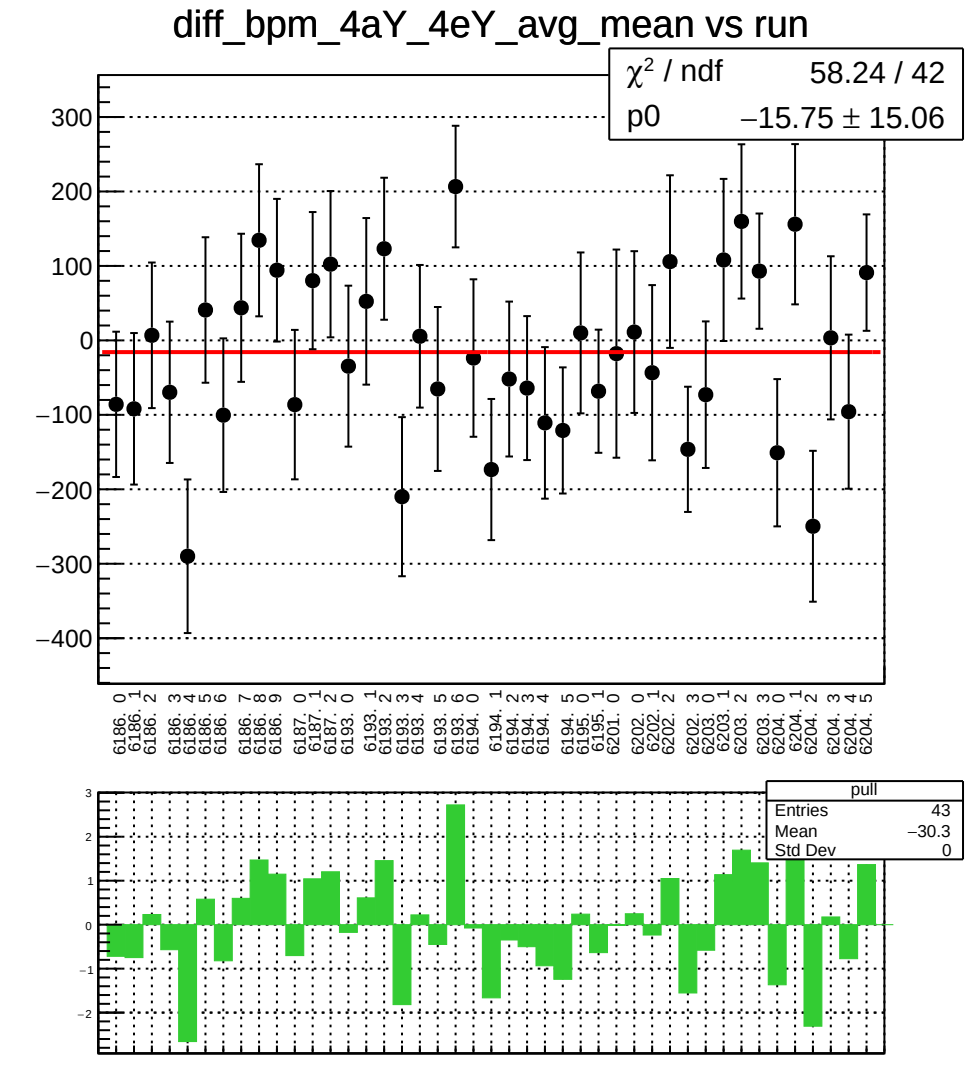

pull1D
Entries 43
Mean −0.01592
Std Dev 1.142

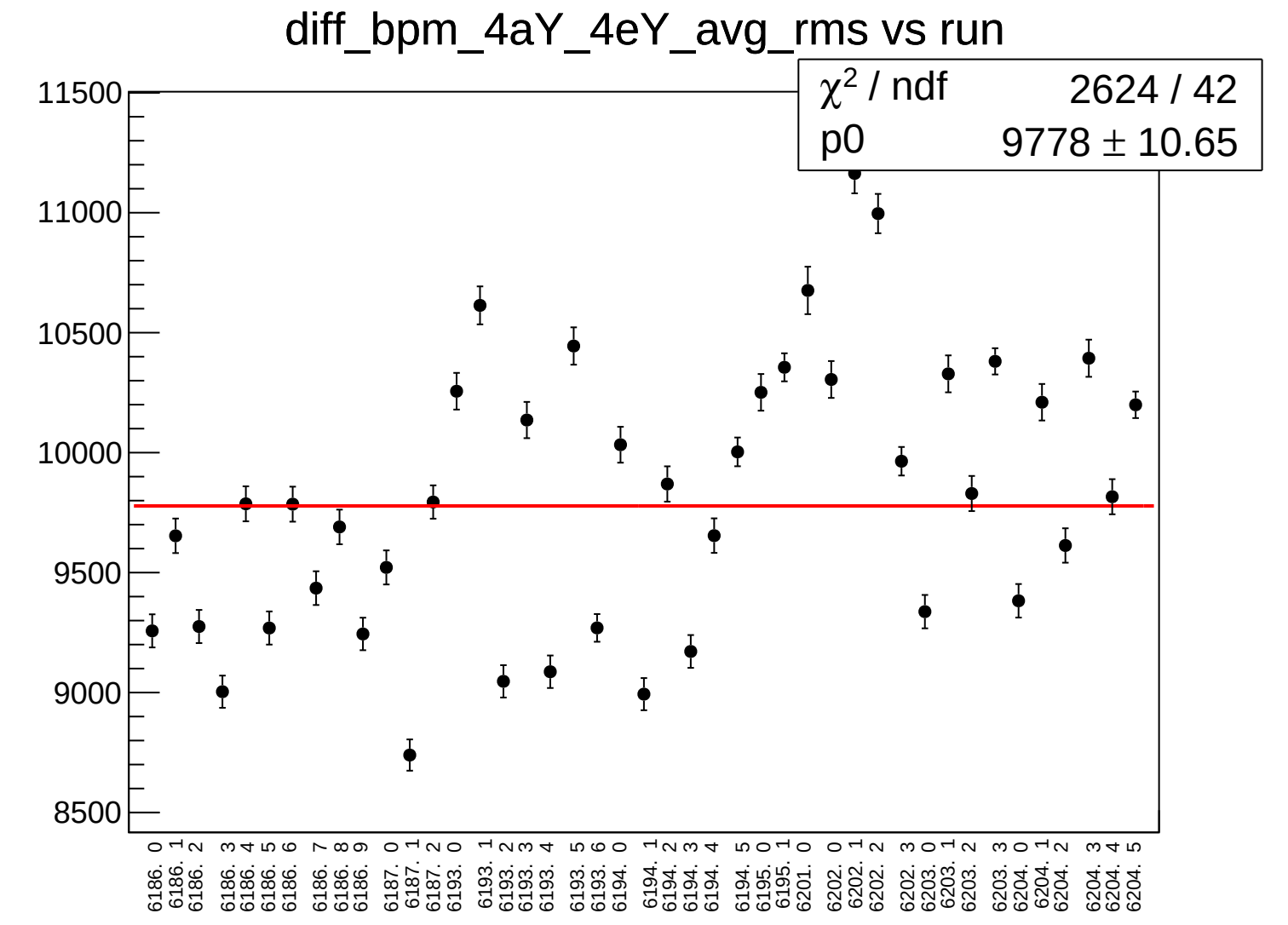

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 3308 / 42
p0 1.01e+04 ± 11.01
12000
11500
11000
10500
10000
9500
9000
8500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

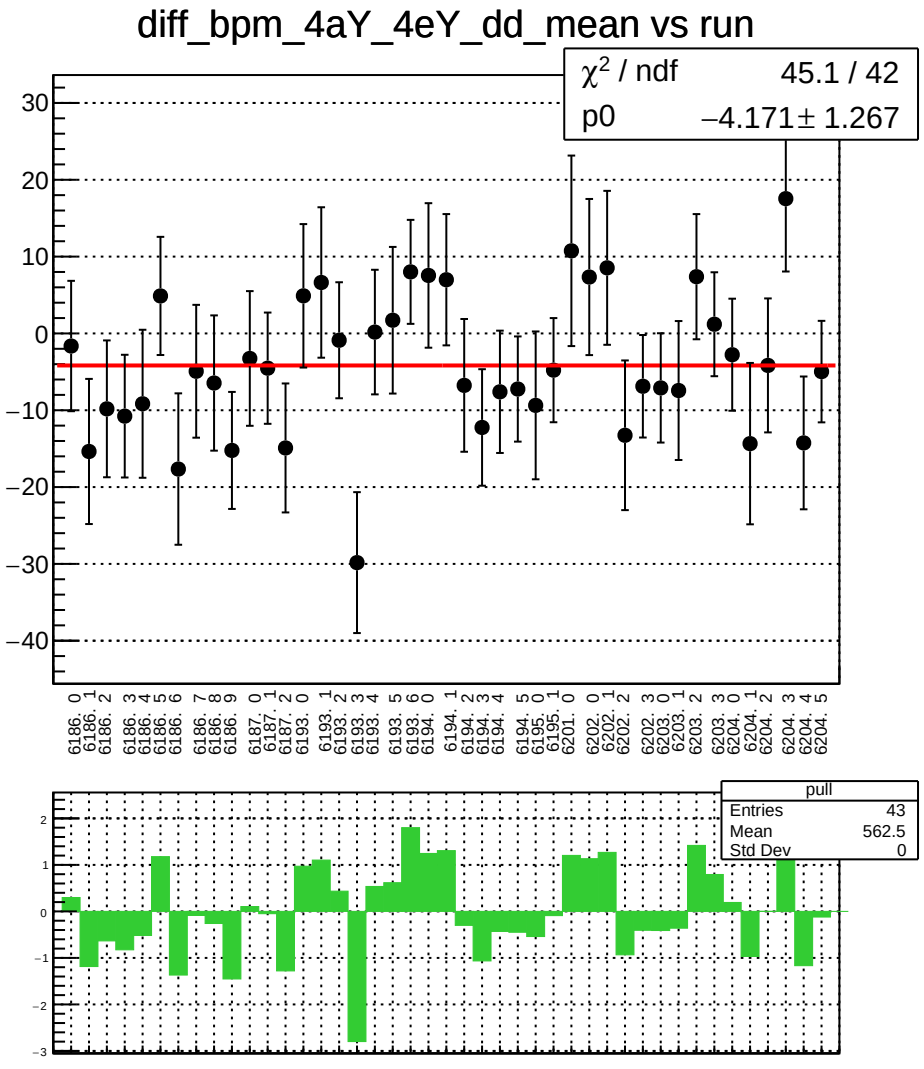

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 41.98 / 42
p0 1.684 ± 1.304
30
20
10
0
−10
−20
−30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −423.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

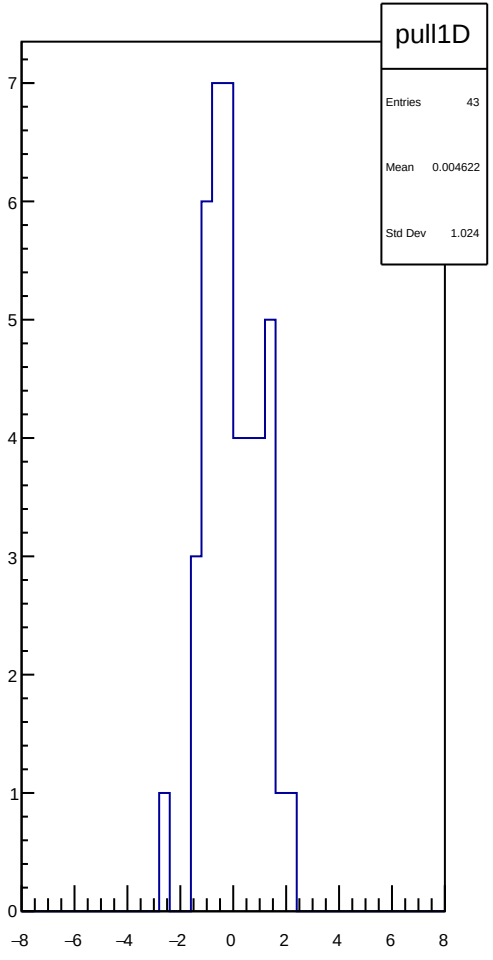

pull1D
Entries 43
Mean 0.004347
Std Dev 0.9881
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

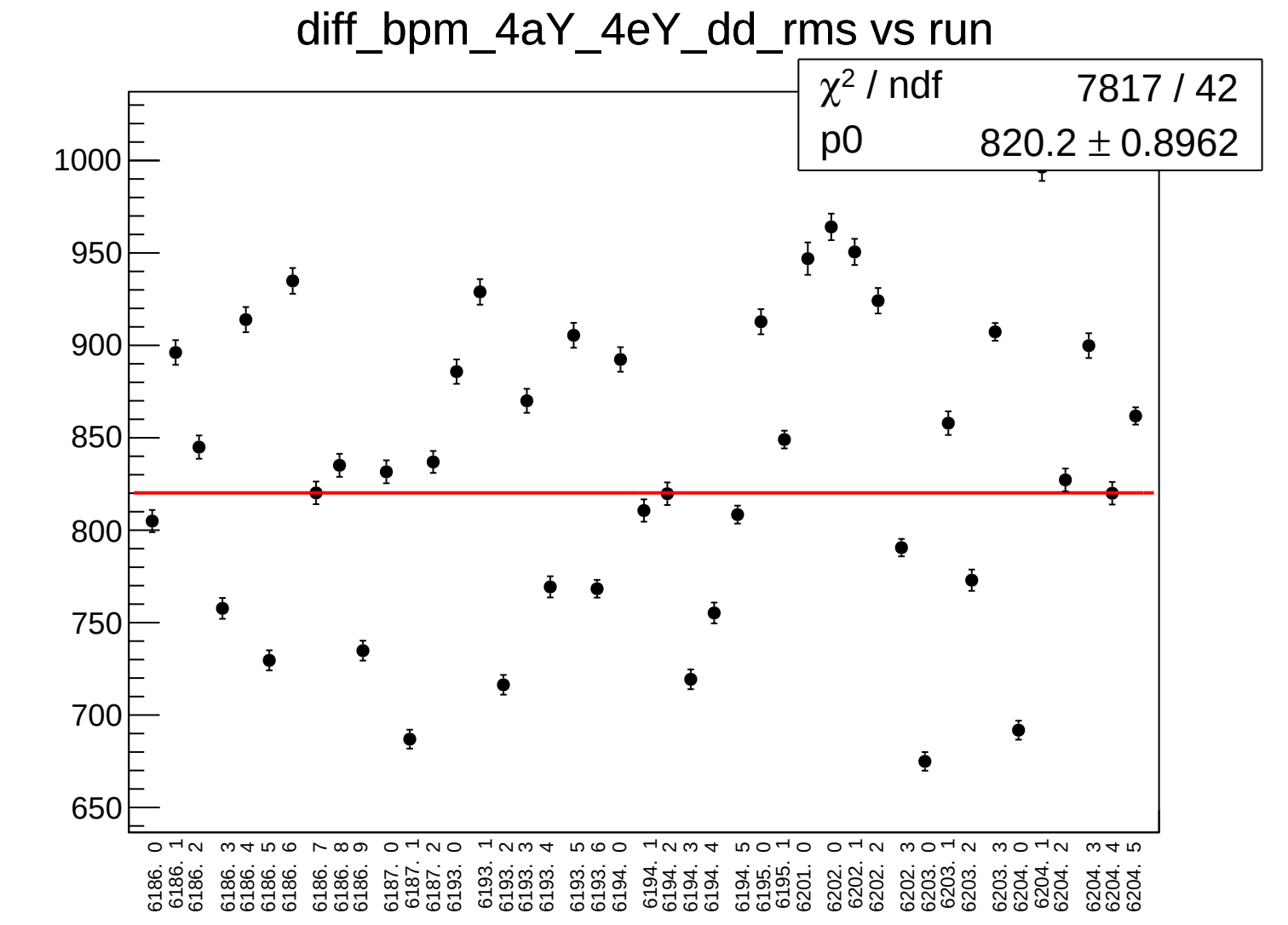

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 359.5 / 42
p0 847.9 ± 0.9224
890
880
870
860
850
840
830
820
810
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

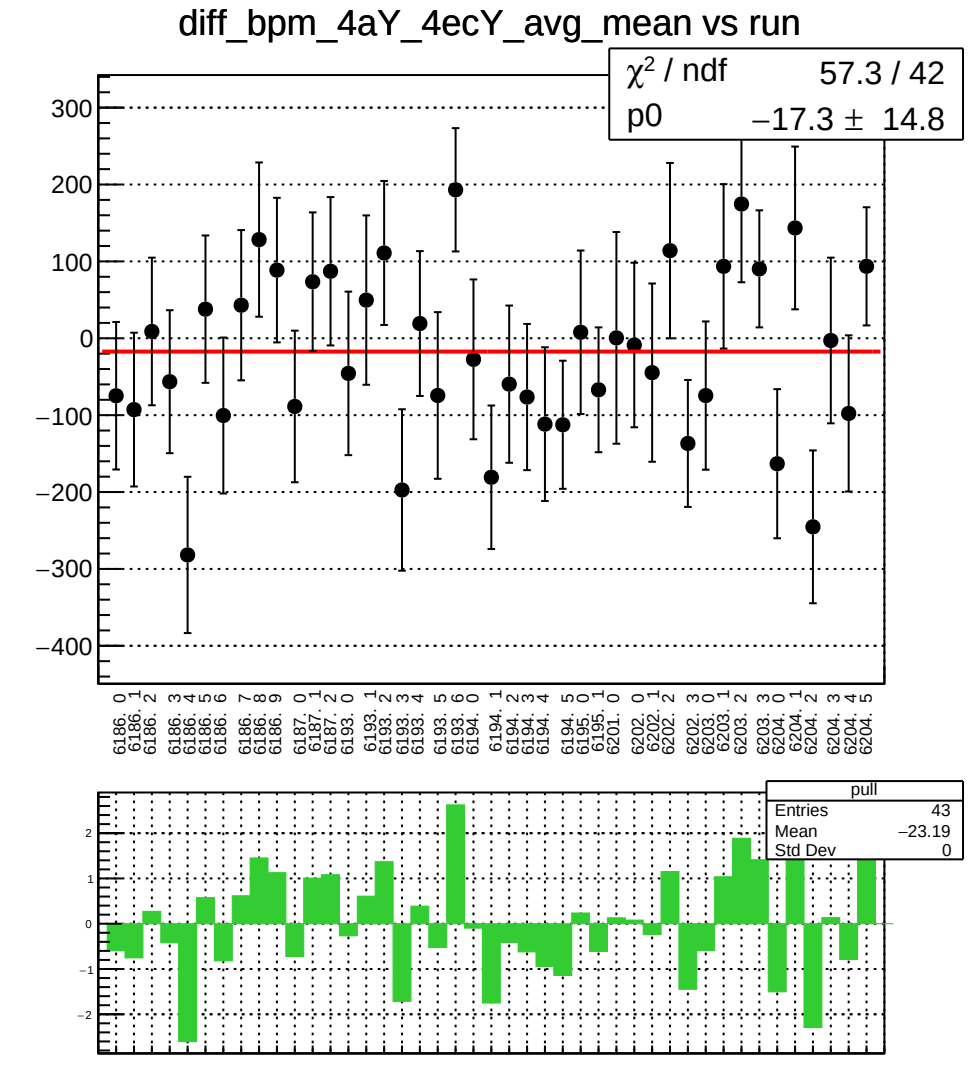

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 58.24 / 42
p0 −15.75 ± 15.06
300
200
100
0
−100
−200
−300
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −30.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01627
Std Dev 1.164
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

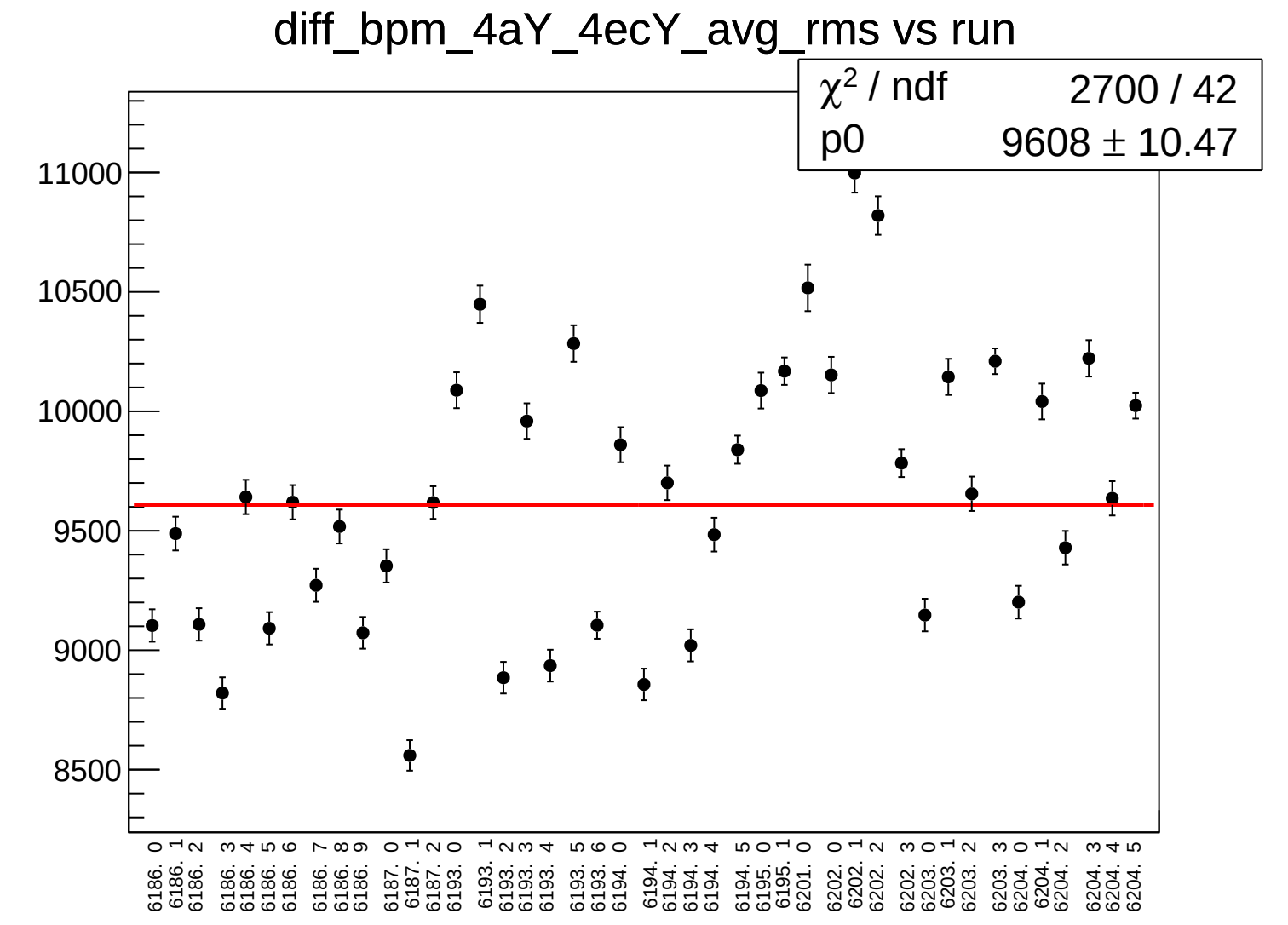

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 2624 / 42
p0 9778 ± 10.65
11500
11000
10500
10000
9500
9000
8500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

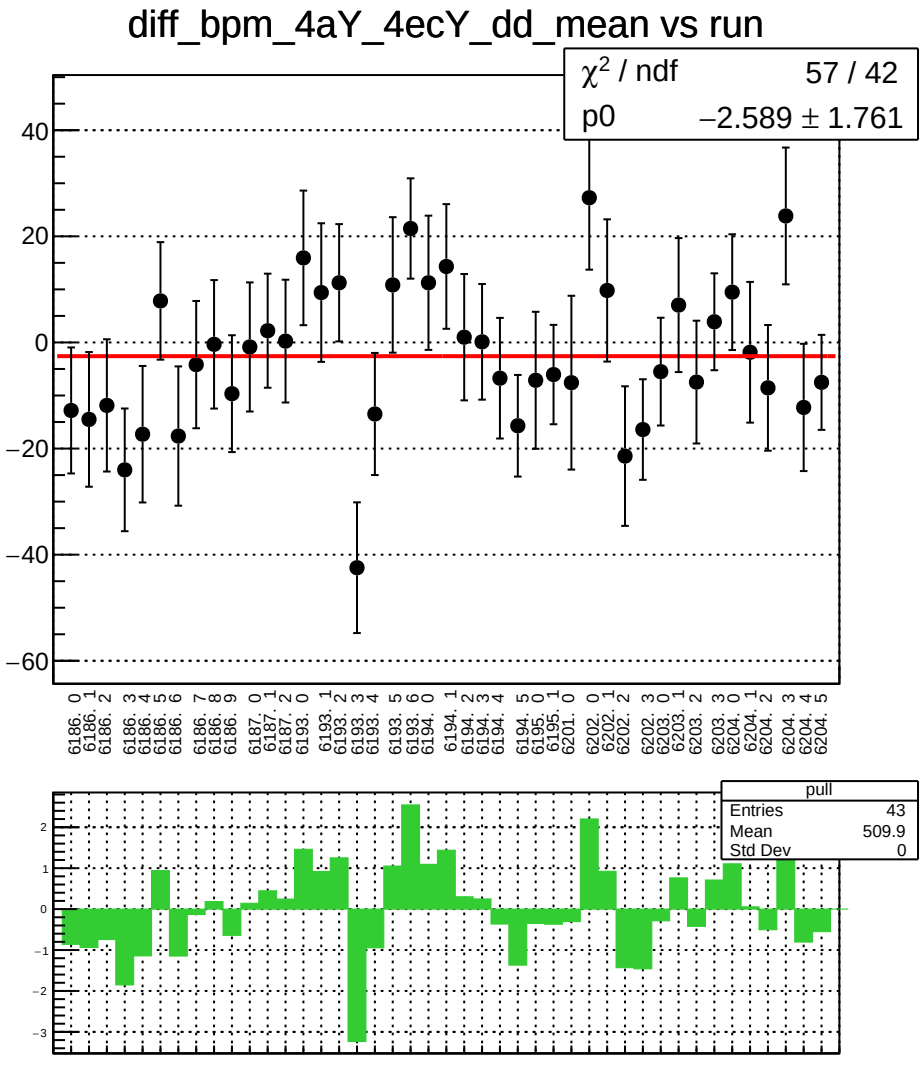

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 45.1 / 42
p0 −4.171± 1.267
pull
Entries 43
Mean 562.5
Std Dev 0

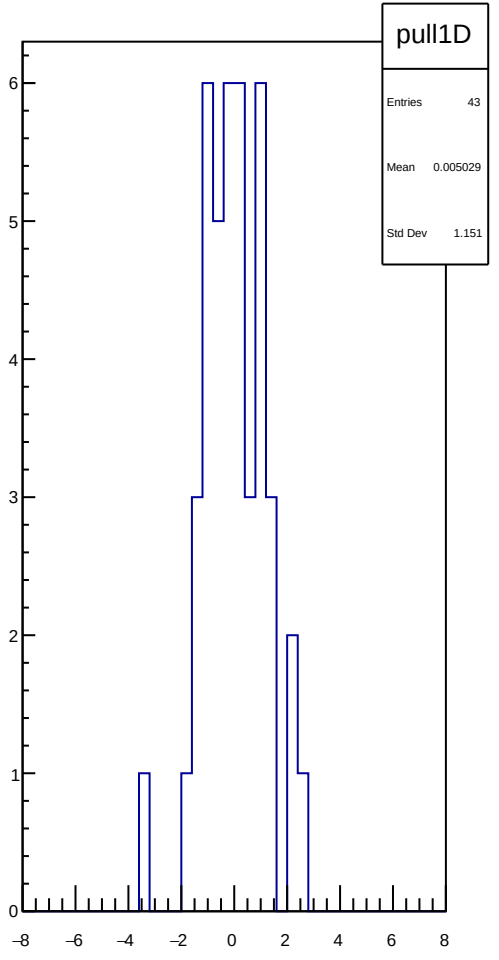

pull1D
Entries 43
Mean 0.004622
Std Dev 1.024

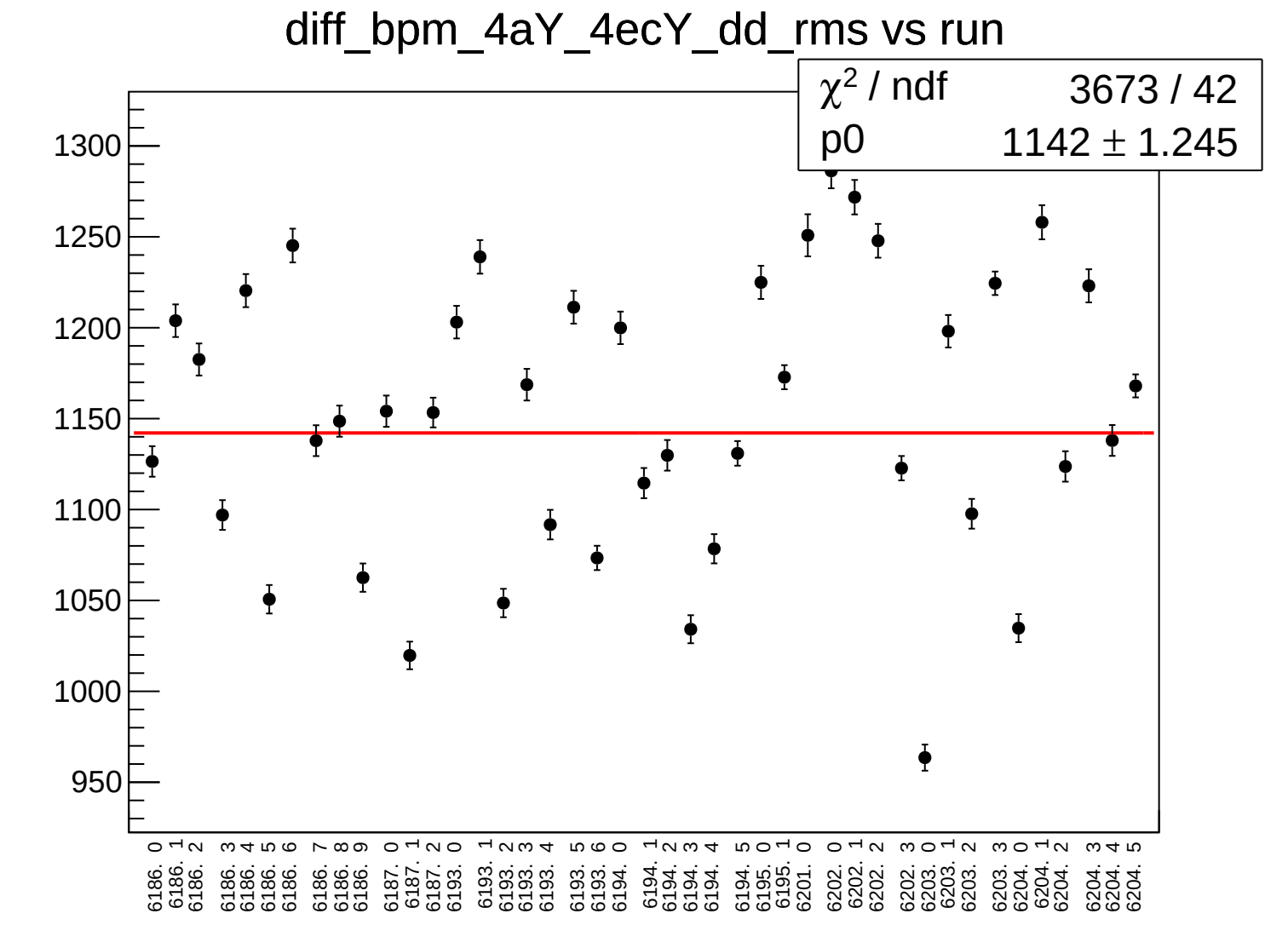

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 7817 / 42
p0 820.2 ± 0.8962
1000
950
900
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

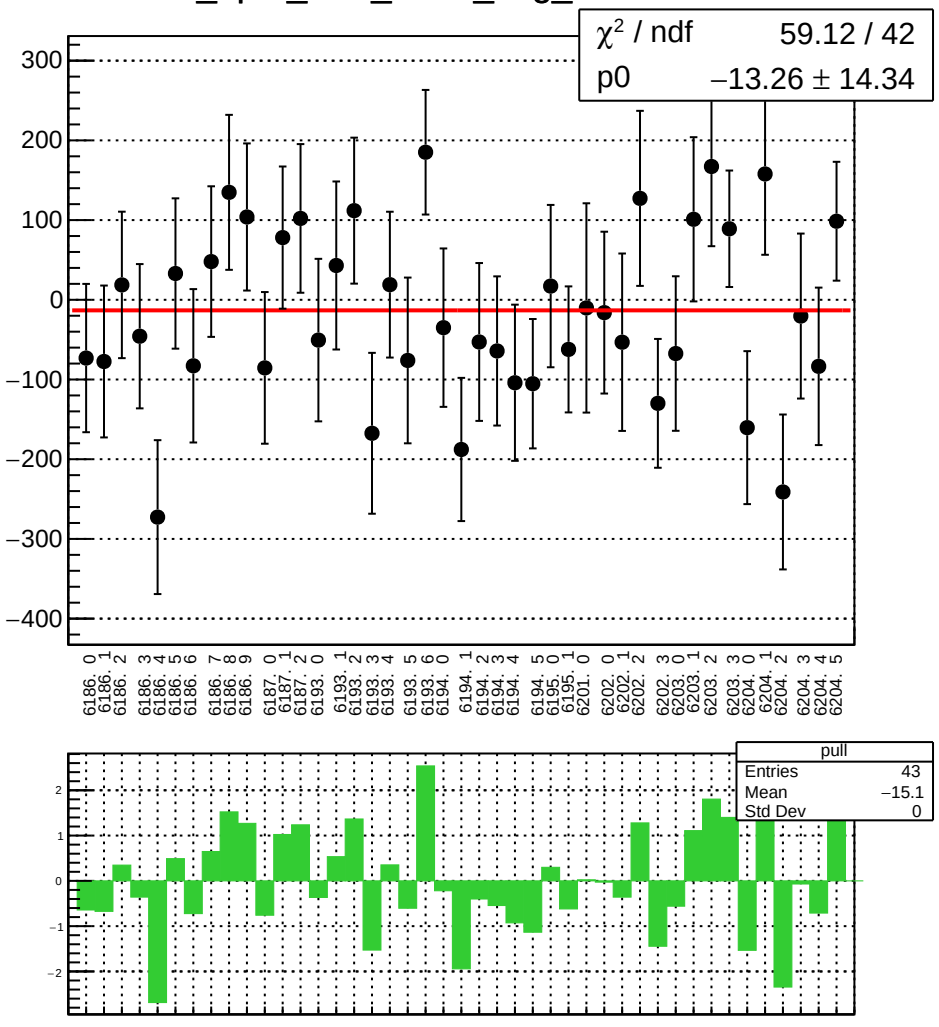

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 57.3 / 42
p0 −17.3 ± 14.8
300
200
100
0
−100
−200
−300
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −23.19
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01694
Std Dev 1.154
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

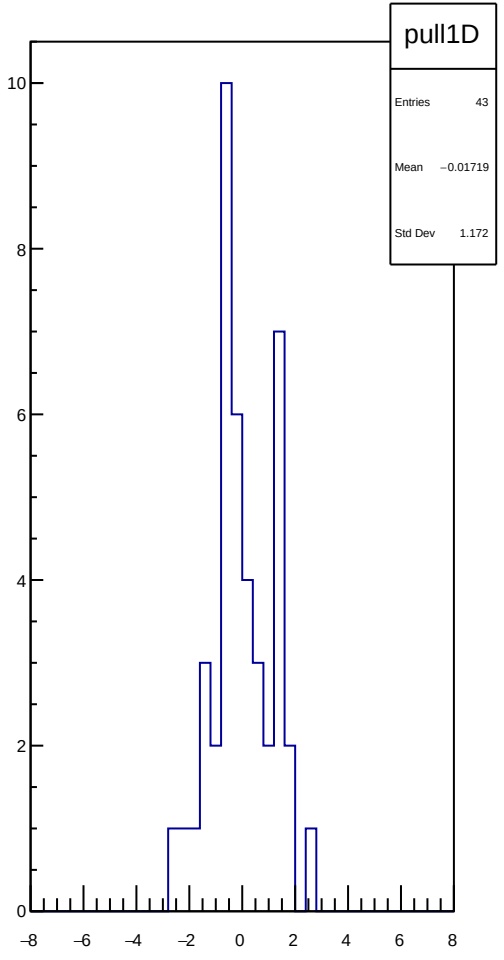

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 2700 / 42
p0 9608 ± 10.47
11000
10500
10000
9500
9000
8500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

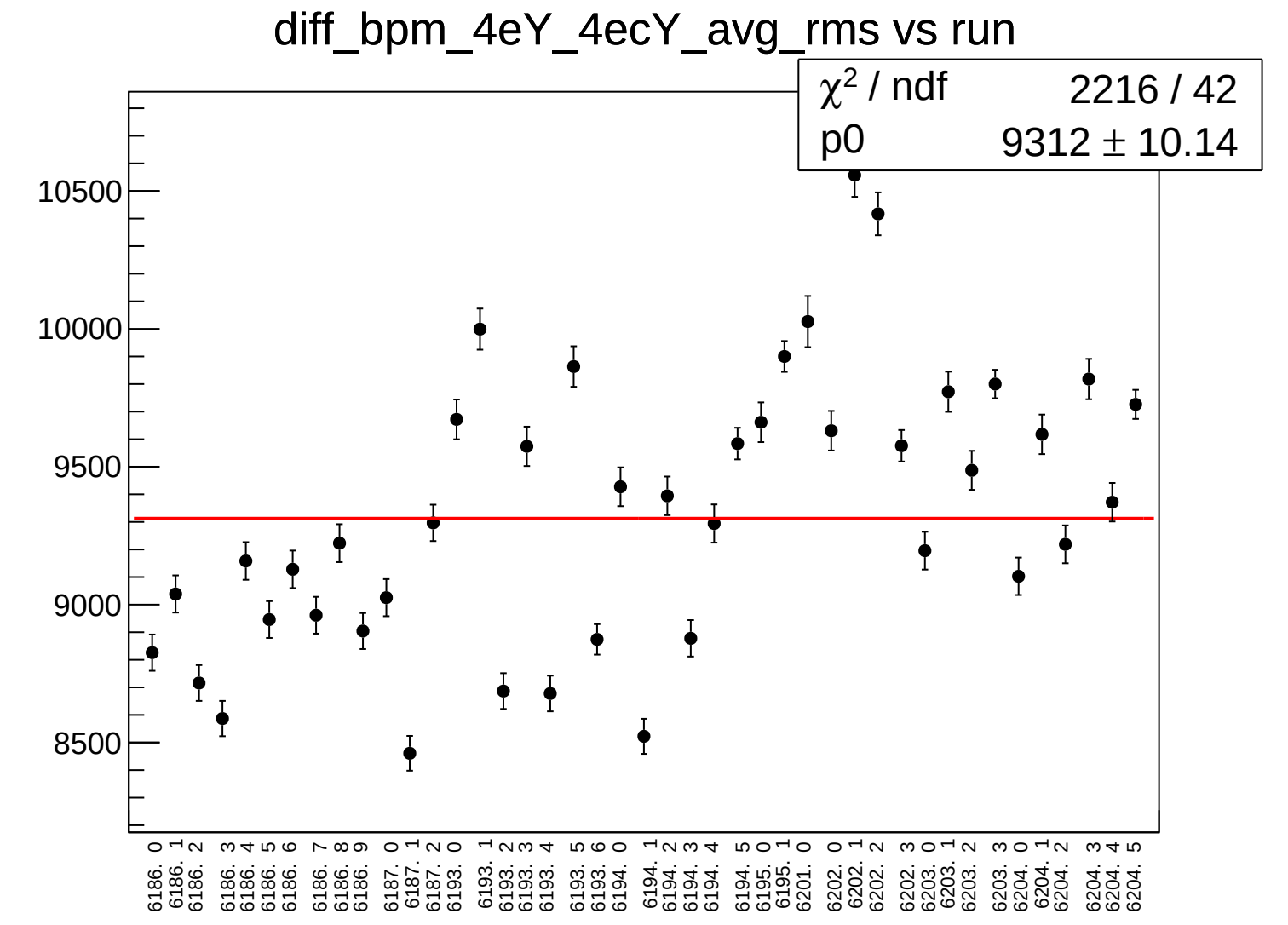

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 57 / 42
p0 −2.589 ± 1.761
40
20
0
−20
−40
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 509.9
Std Dev 0
2
1
0
−1
−2
−3

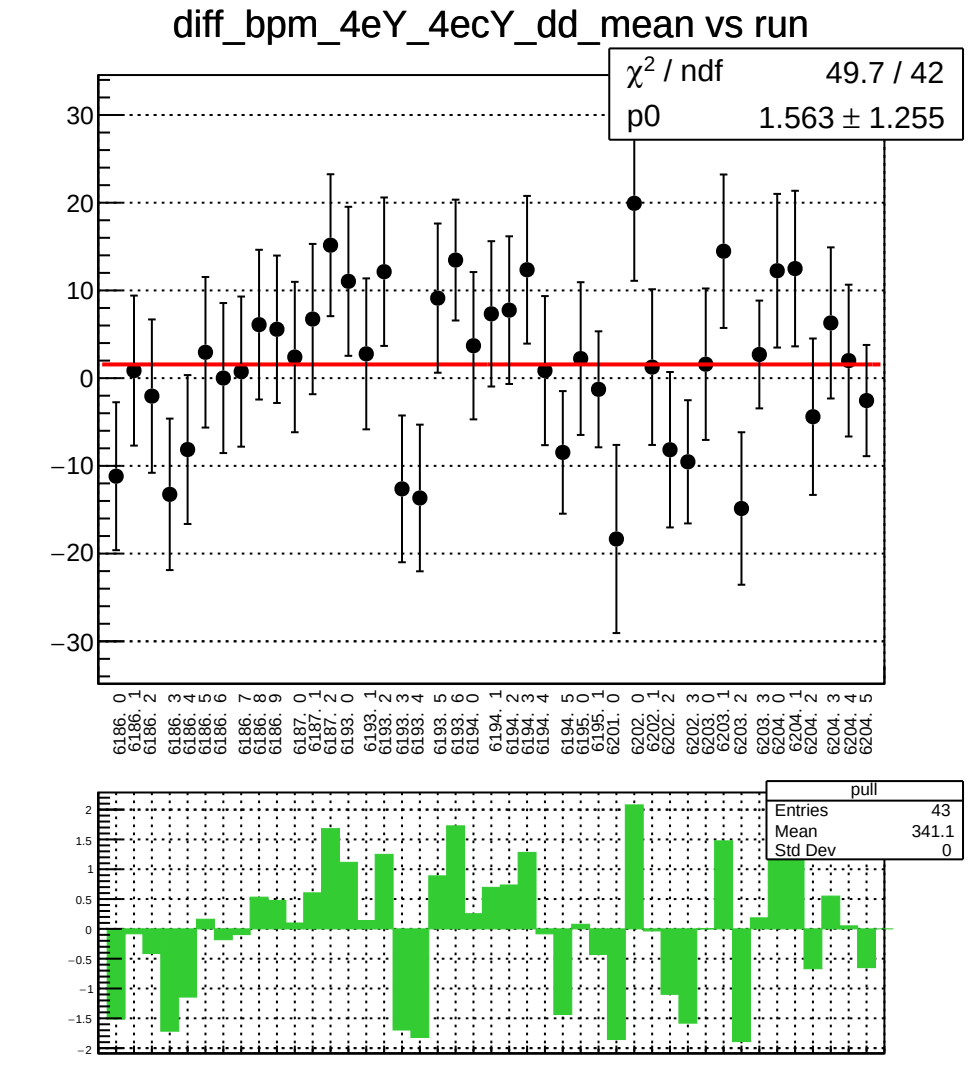

pull1D
Entries 43
Mean 0.005029
Std Dev 1.151
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

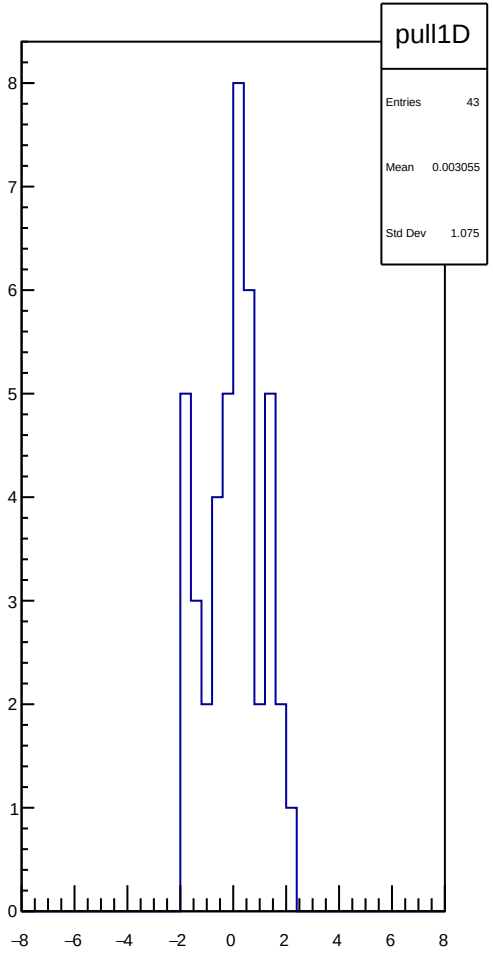

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 3673 / 42
p0 1142 ± 1.245
1300
1250
1200
1150
1100
1050
1000
950
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

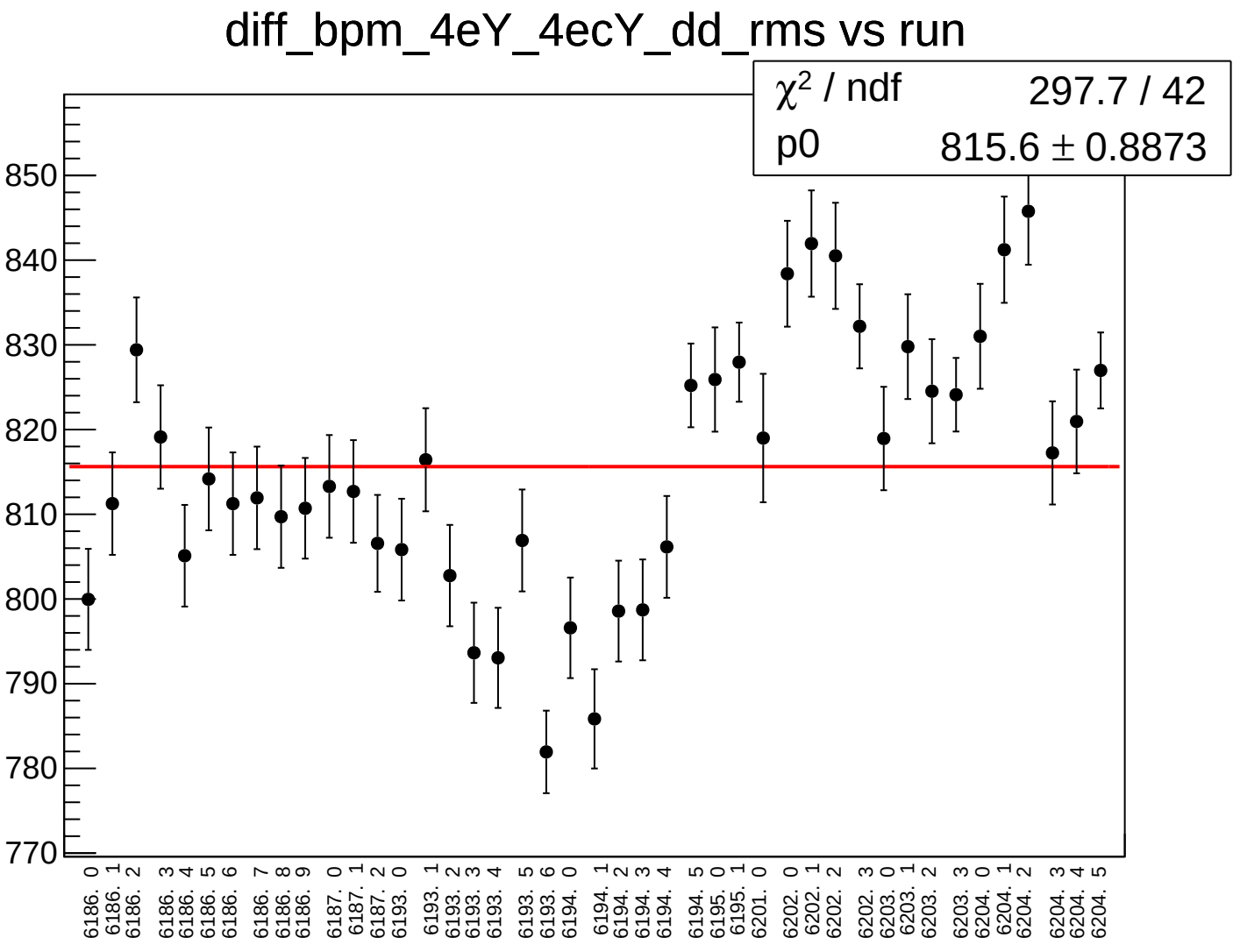

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 59.12 / 42
p0 −13.26 ± 14.34
pull
Entries 43
Mean −15.1
Std Dev 0

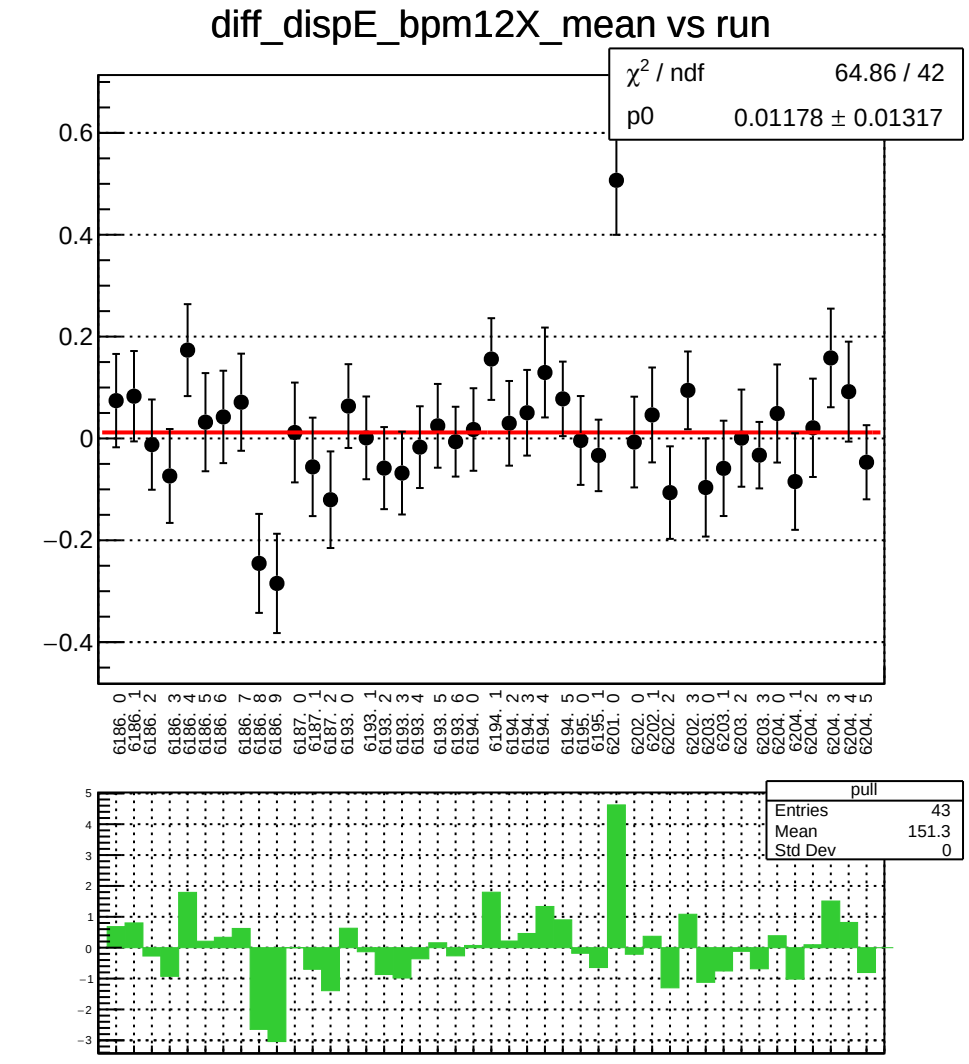

pull1D
Entries 43
Mean −0.01719
Std Dev 1.172

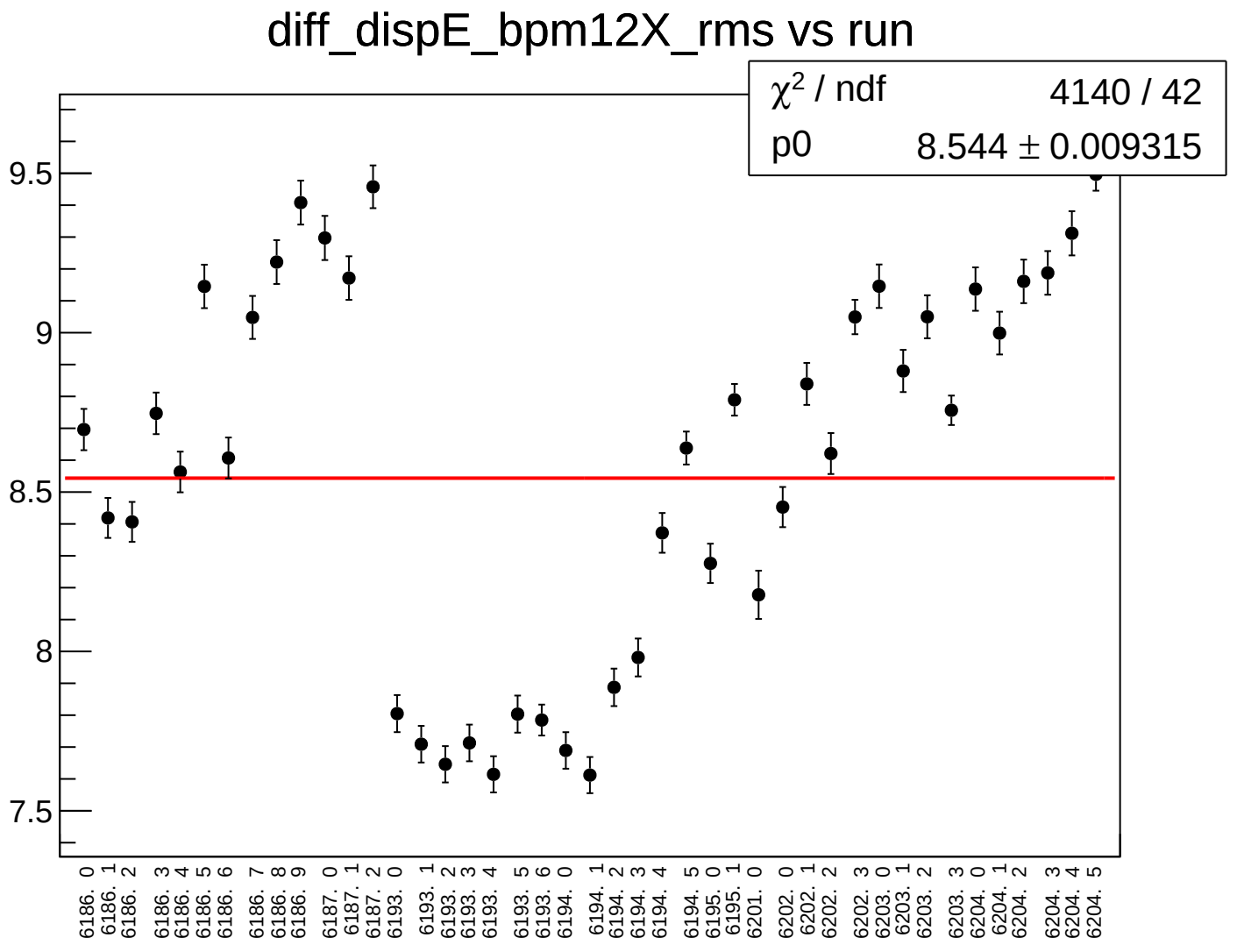

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 2216 / 42
p0 9312 ± 10.14
10500
10000
9500
9000
8500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

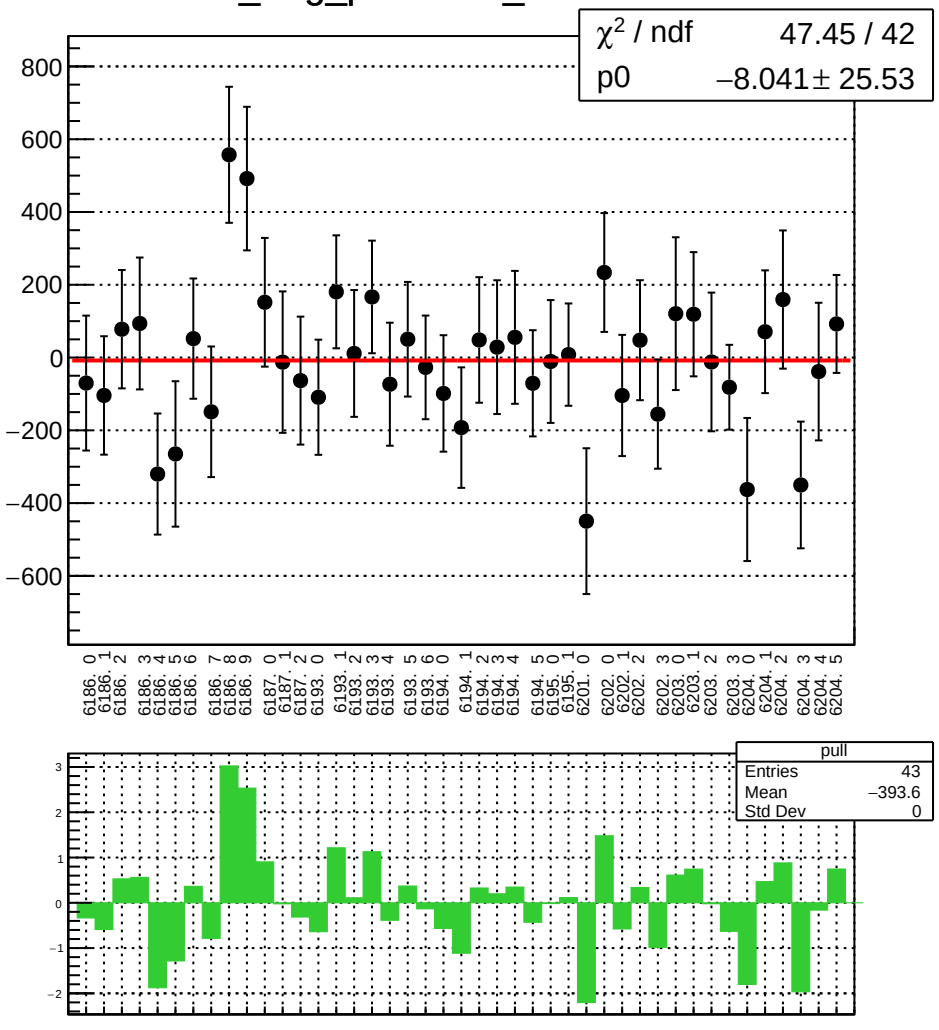

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 49.7 / 42
p0 1.563 ± 1.255
30
20
10
0
−10
−20
−30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 341.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

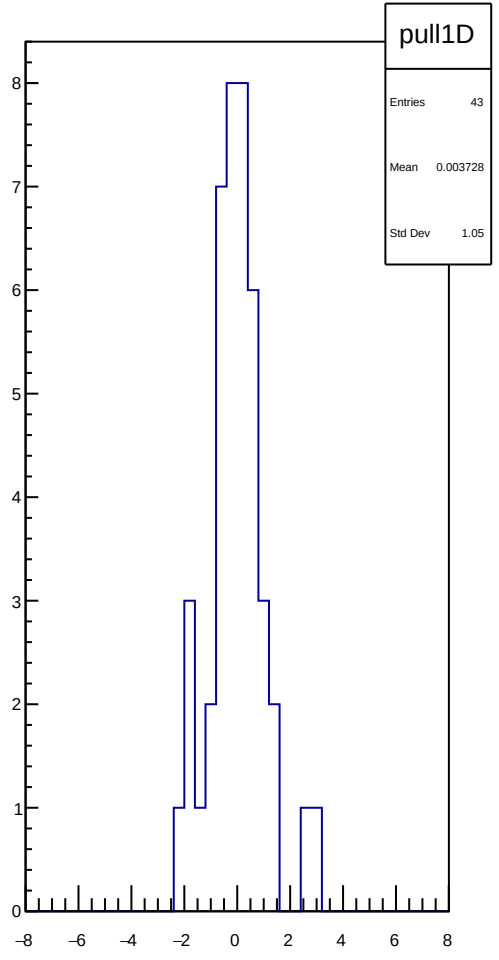

pull1D
Entries 43
Mean 0.003055
Std Dev 1.075
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

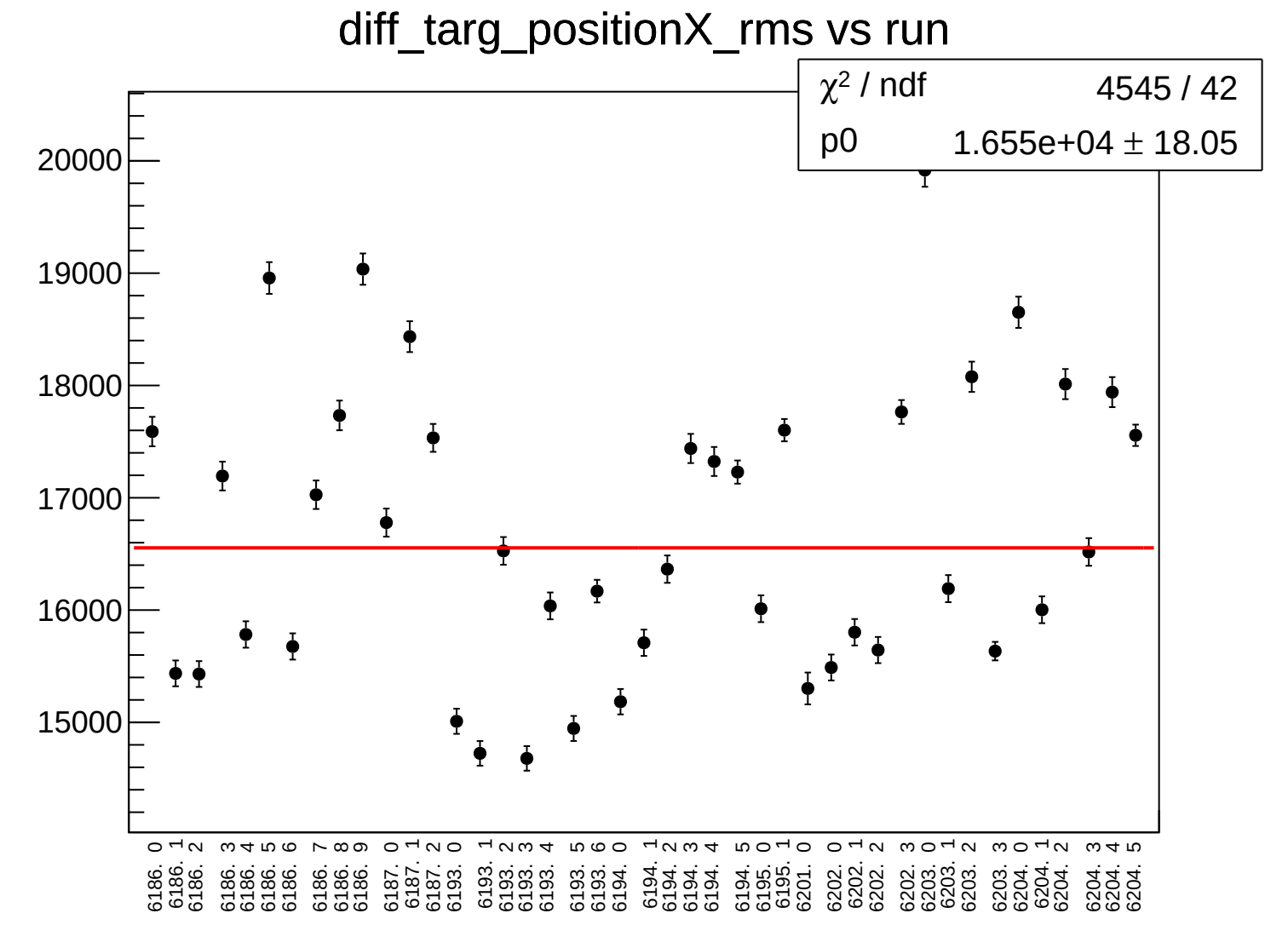

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 297.7 / 42
p0 815.6 ± 0.8873
850
840
830
820
810
800
790
780
770
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

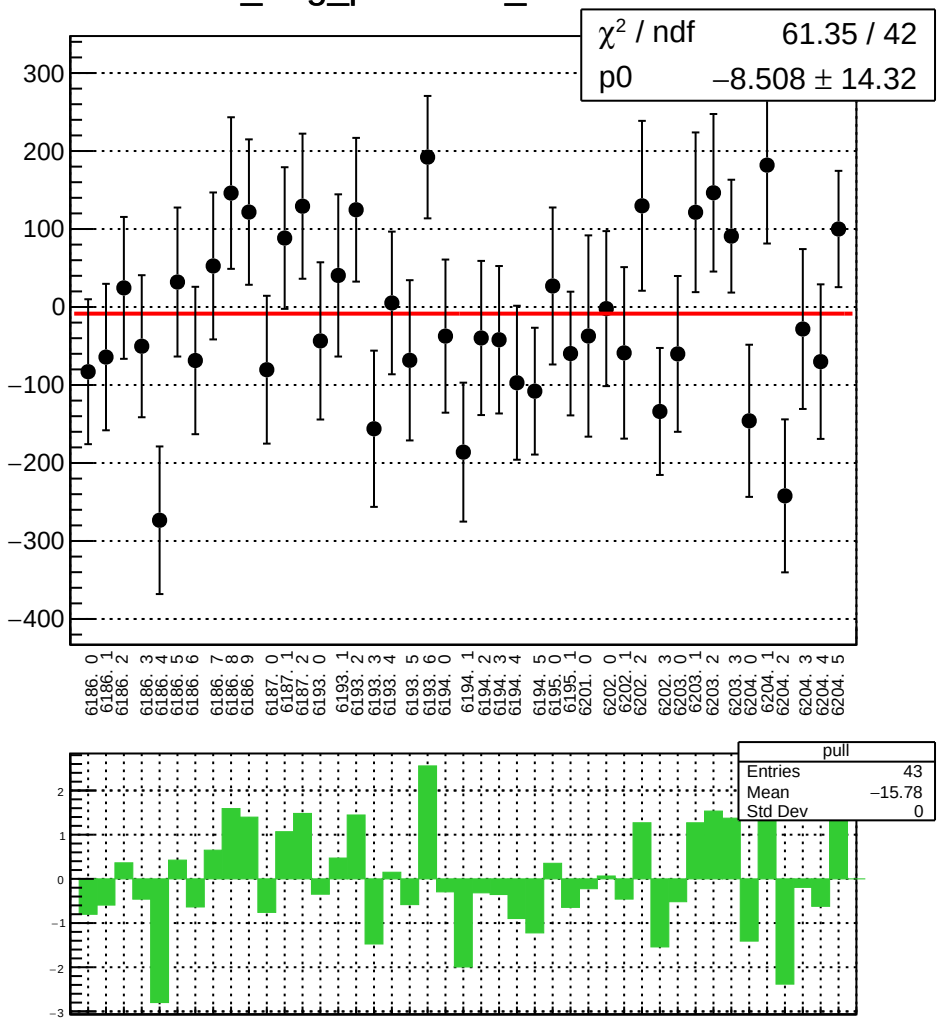

diff_dispE_bpm12X_mean vs run
χ² / ndf 64.86 / 42
p0 0.01178 ± 0.01317
pull
Entries 43
Mean 151.3
Std Dev 0
pull1D
Entries 43
Mean 0.01114
Std Dev 1.228

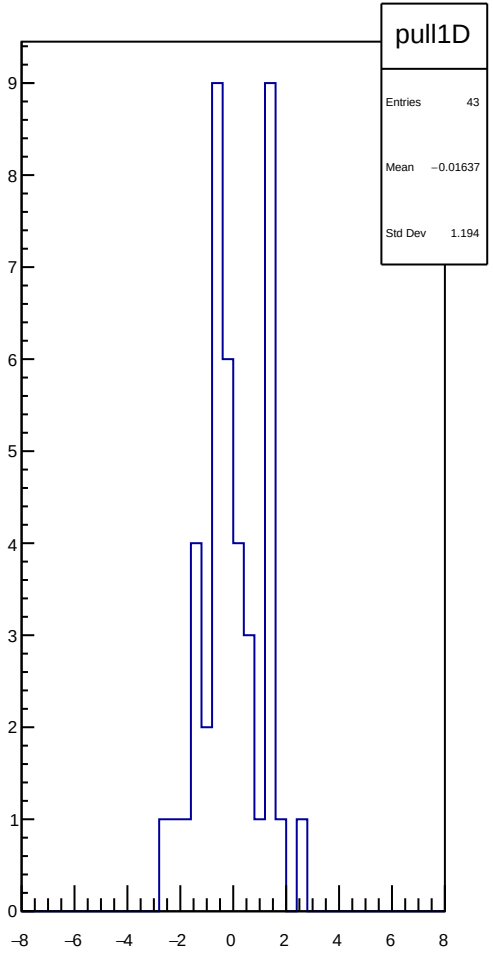

diff_dispE_bpm12X_rms vs run
χ² / ndf 4140 / 42
p0 8.544 ± 0.009315
9.5
9
8.5
8
7.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

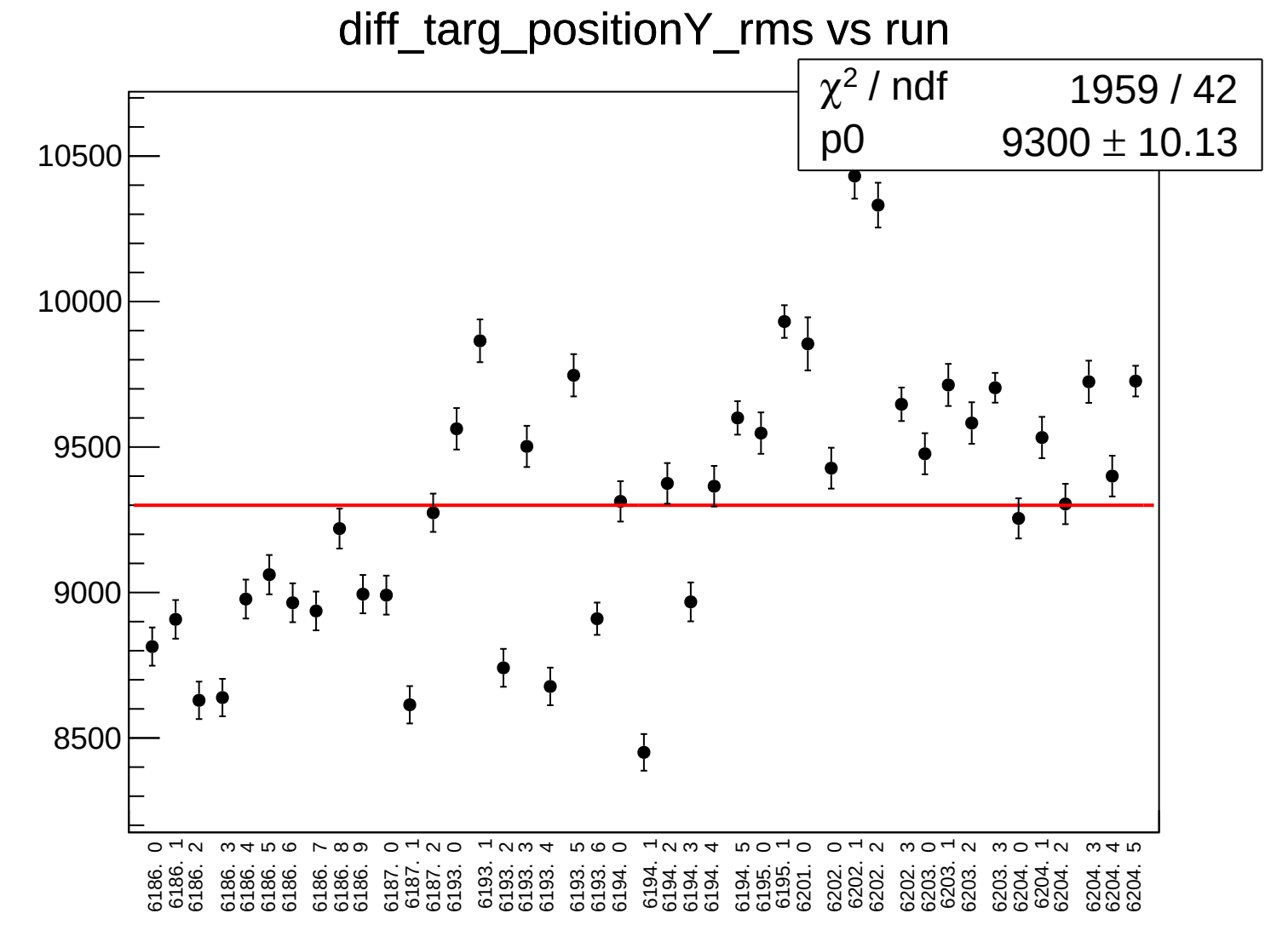

diff_targ_positionX_mean vs run
χ² / ndf 47.45 / 42
p0 −8.041± 25.53
800
600
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −393.6
Std Dev 0
3
2
1
0
−1
−2

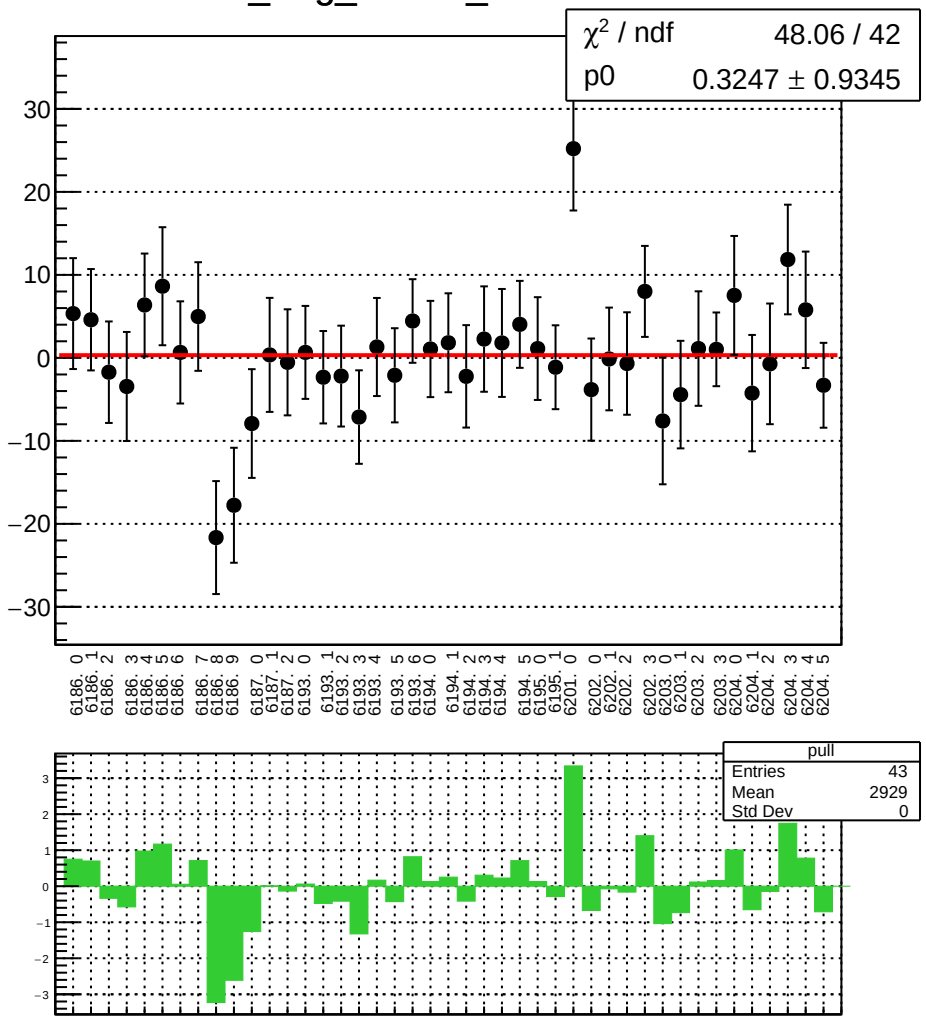

pull1D
Entries 43
Mean 0.003728
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

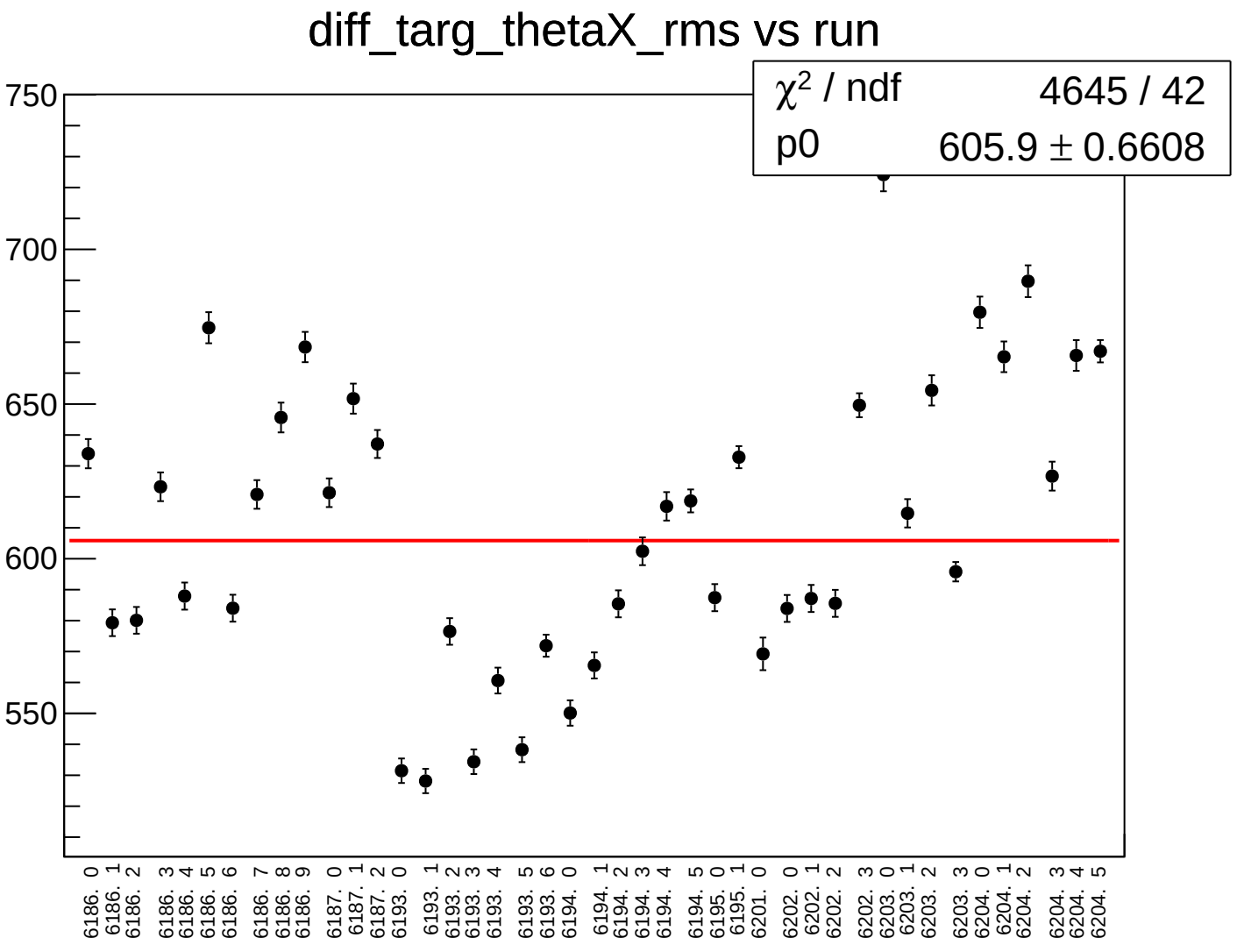

diff_targ_positionX_rms vs run
χ² / ndf 4545 / 42
p0 1.655e+04 ± 18.05
20000
19000
18000
17000
16000
15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

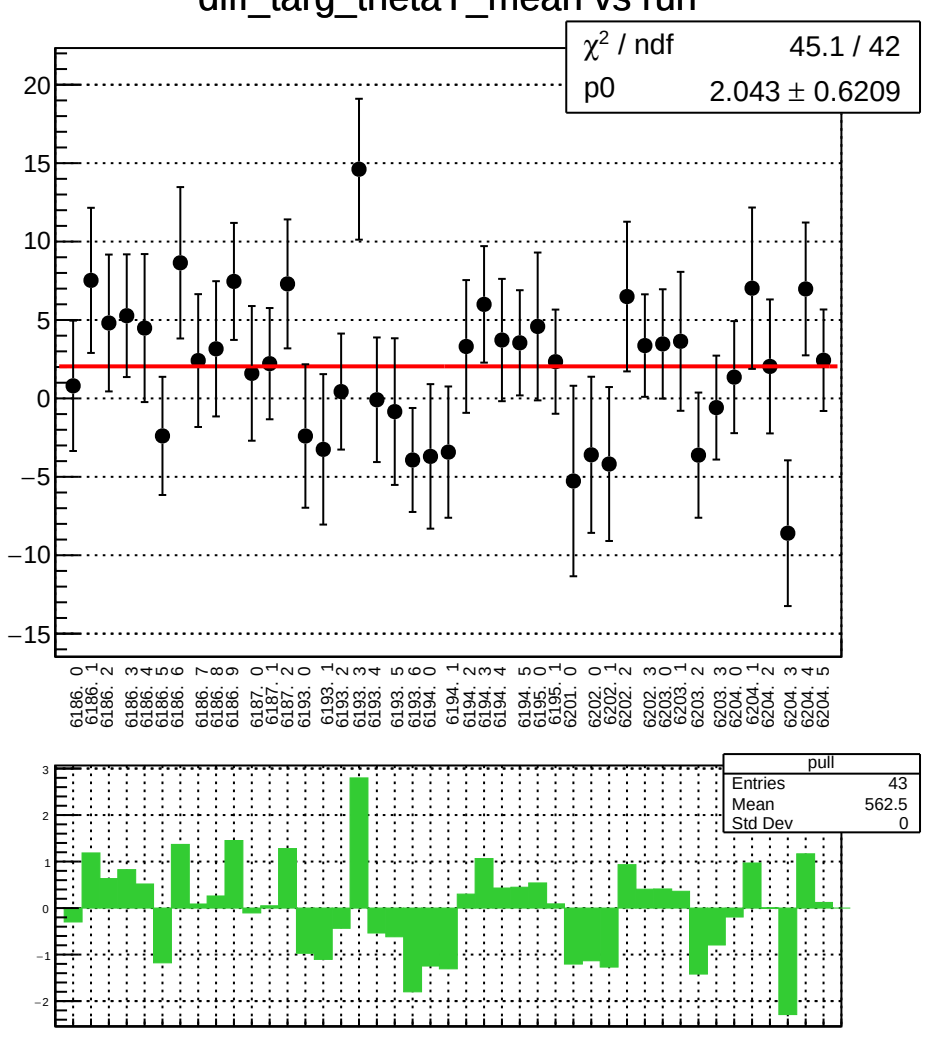

diff_targ_positionY_mean vs run
χ² / ndf 61.35 / 42
p0 −8.508 ± 14.32
pull
Entries 43
Mean −15.78
Std Dev 0

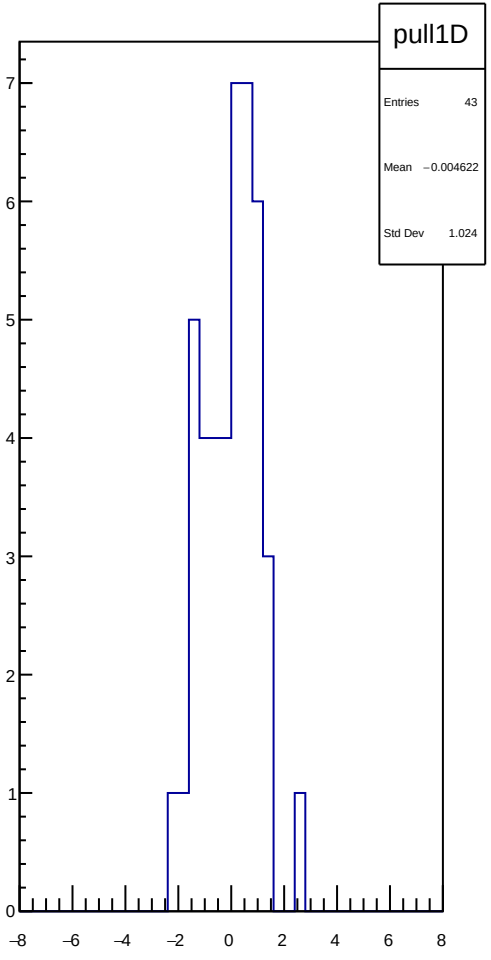

pull1D
Entries 43
Mean −0.01637
Std Dev 1.194

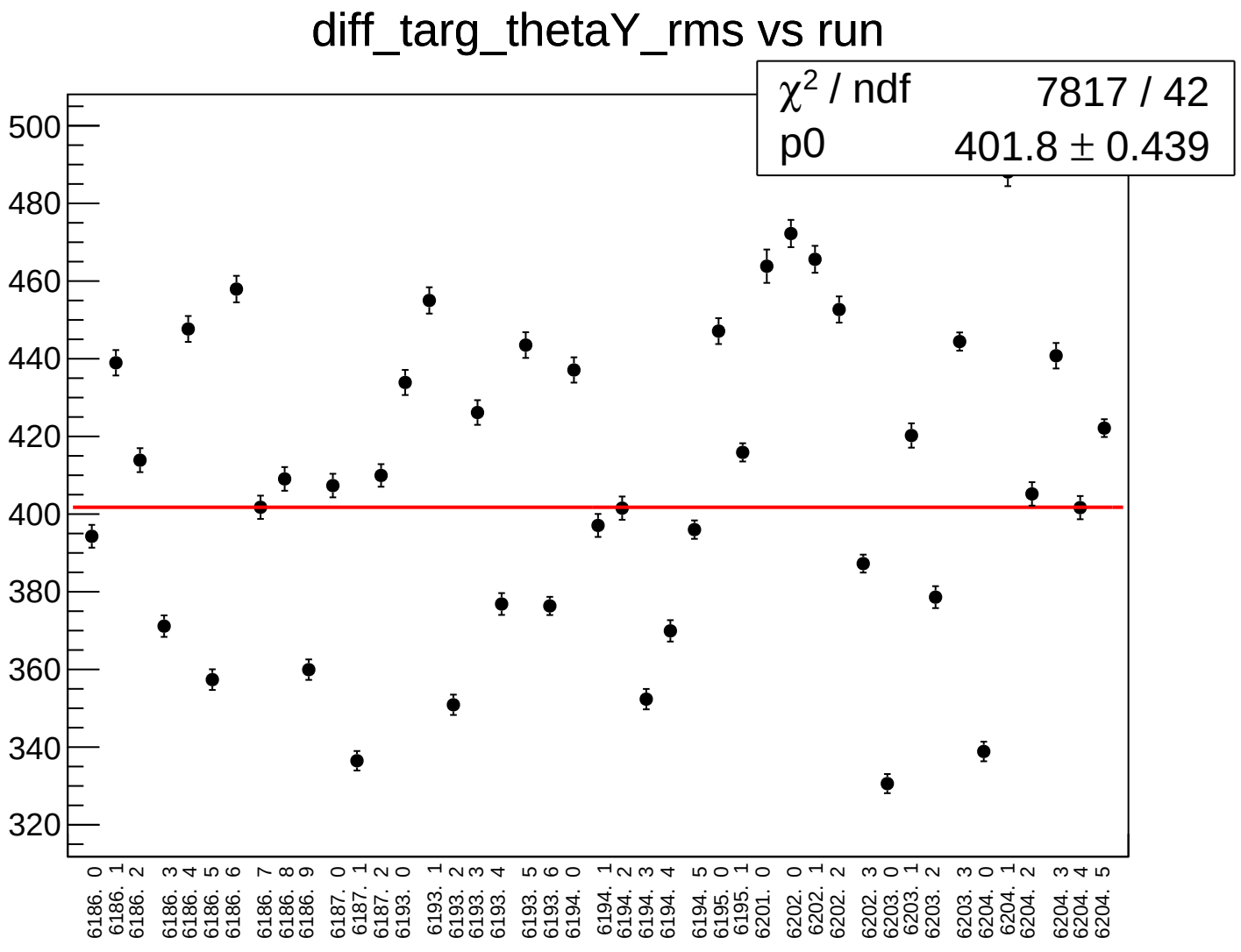

diff_targ_positionY_rms vs run
χ² / ndf 1959 / 42
p0 9300 ± 10.13
10500
10000
9500
9000
8500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

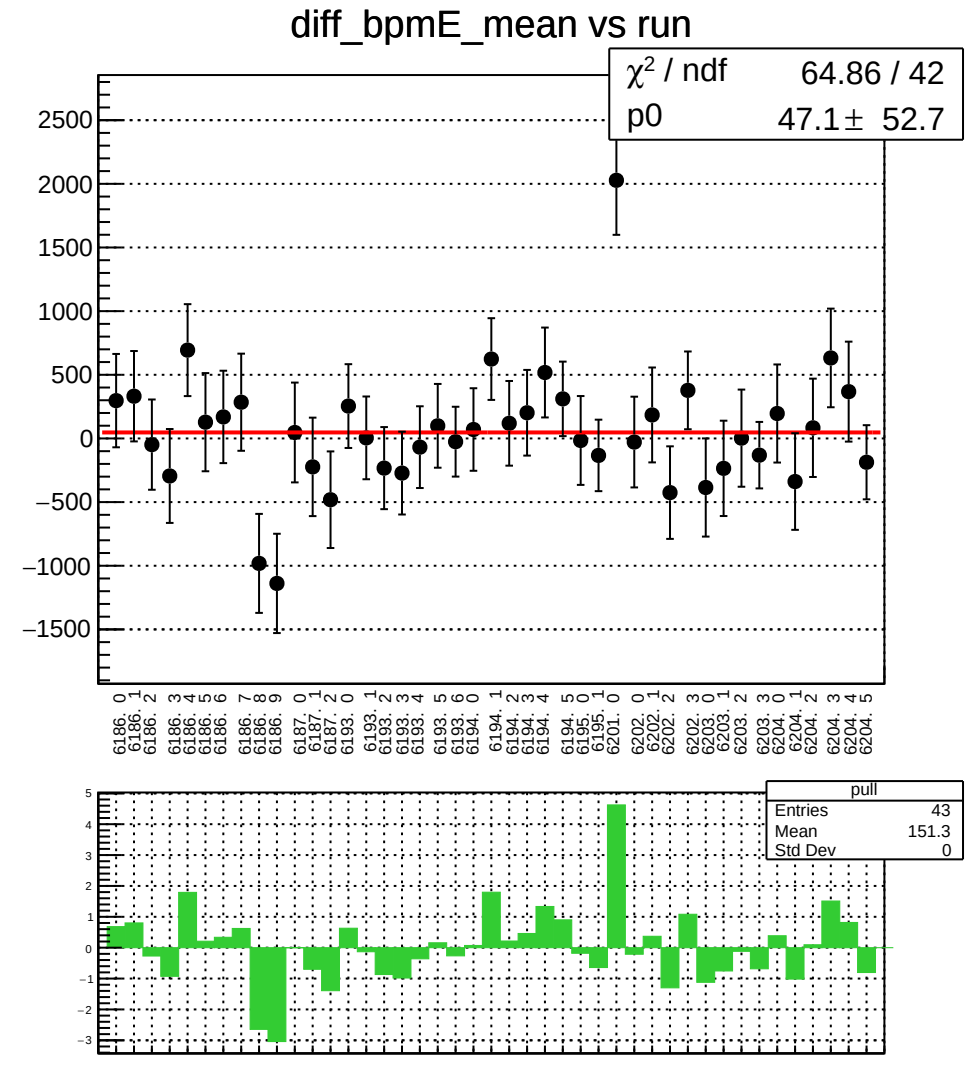

diff_targ_thetaX_mean vs run
χ² / ndf 48.06 / 42
p0 0.3247 ± 0.9345
pull
Entries 43
Mean 2929
Std Dev 0
pull1D
Entries 43
Mean 0.0007362
Std Dev 1.057

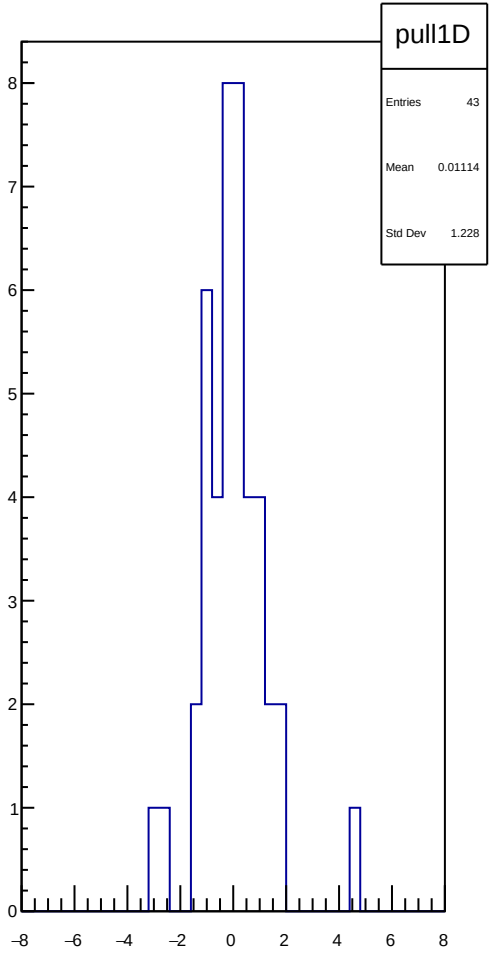

diff_targ_thetaX_rms vs run
χ² / ndf 4645 / 42
p0 605.9 ± 0.6608
750
700
650
600
550
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

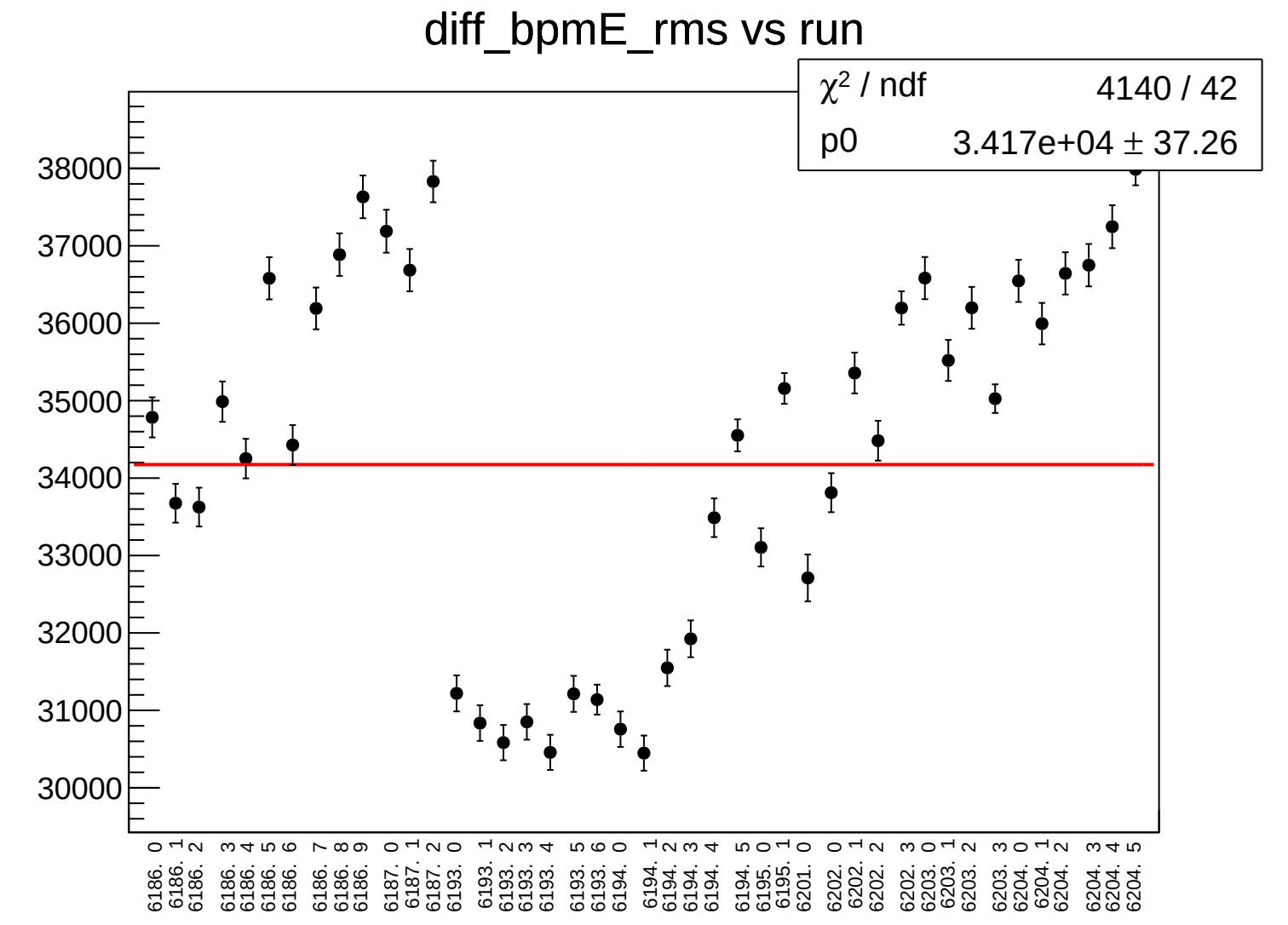

diff_targ_thetaY_mean vs run
χ² / ndf 45.1 / 42
p0 2.043 ± 0.6209
pull
Entries 43
Mean 562.5
Std Dev 0

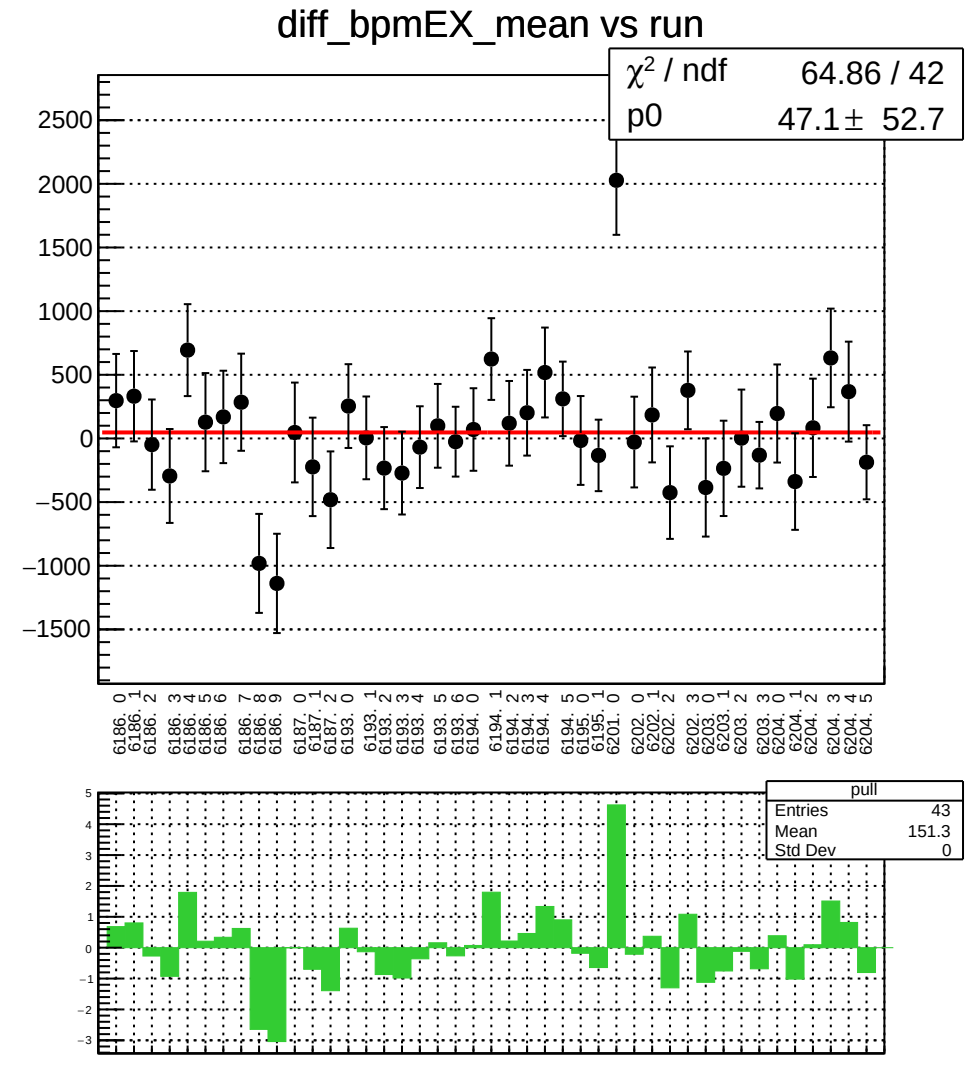

pull1D
Entries 43
Mean −0.004622
Std Dev 1.024

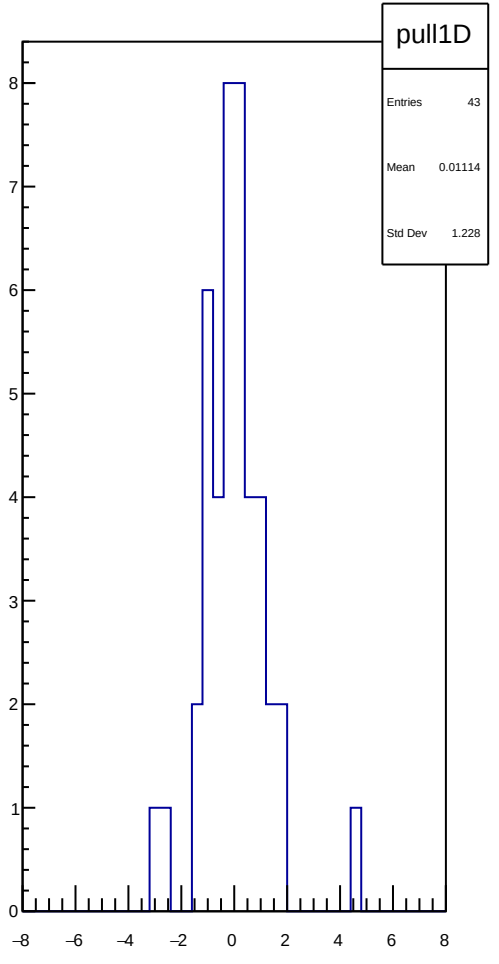

diff_targ_thetaY_rms vs run
χ² / ndf 7817 / 42
p0 401.8 ± 0.439
500
480
460
440
420
400
380
360
340
320
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

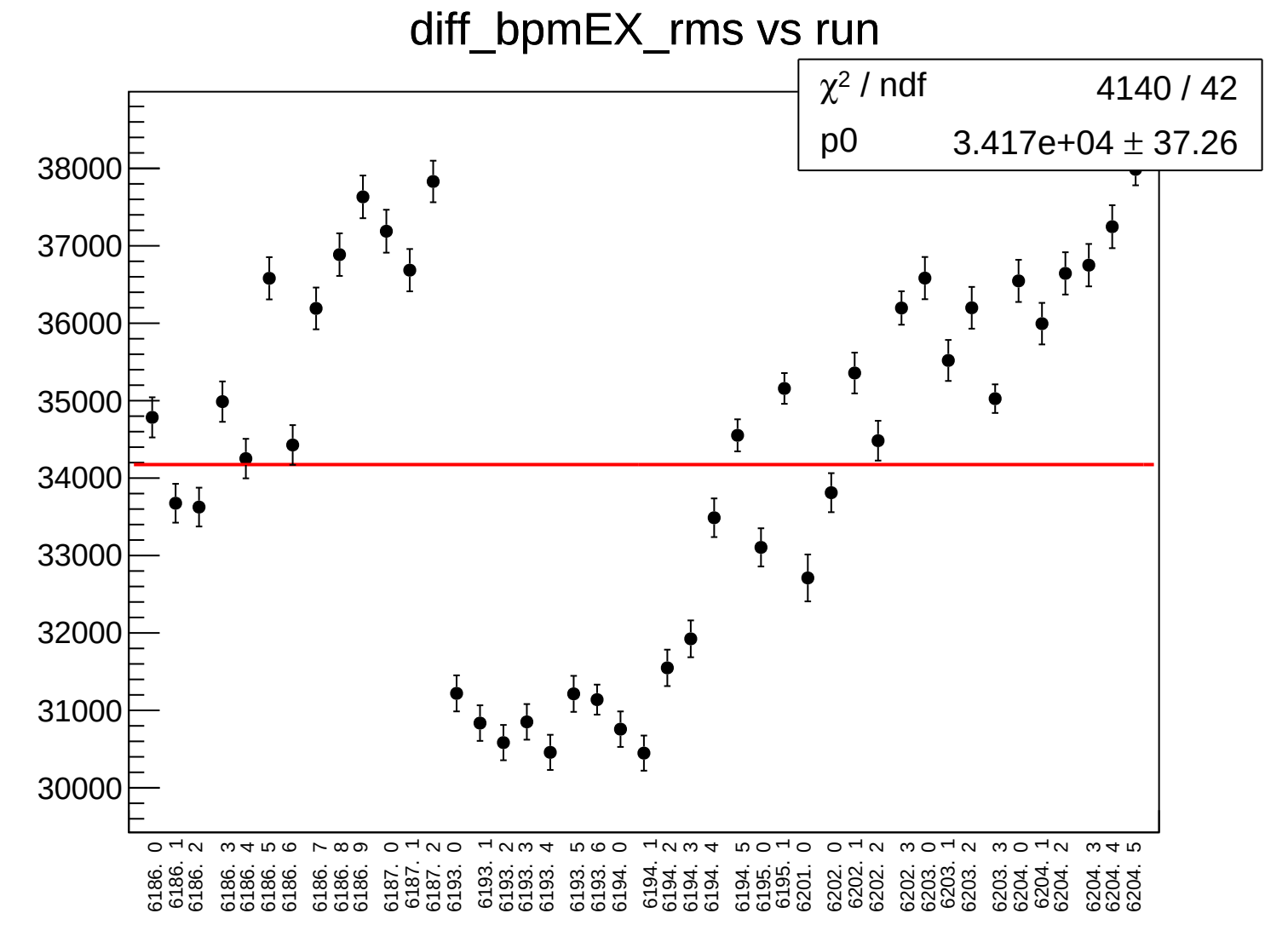

diff_bpmE_mean vs run
χ² / ndf 64.86 / 42
p0 47.1± 52.7
2500
2000
1500
1000
500
0
−500
−1000
−1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 151.3
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

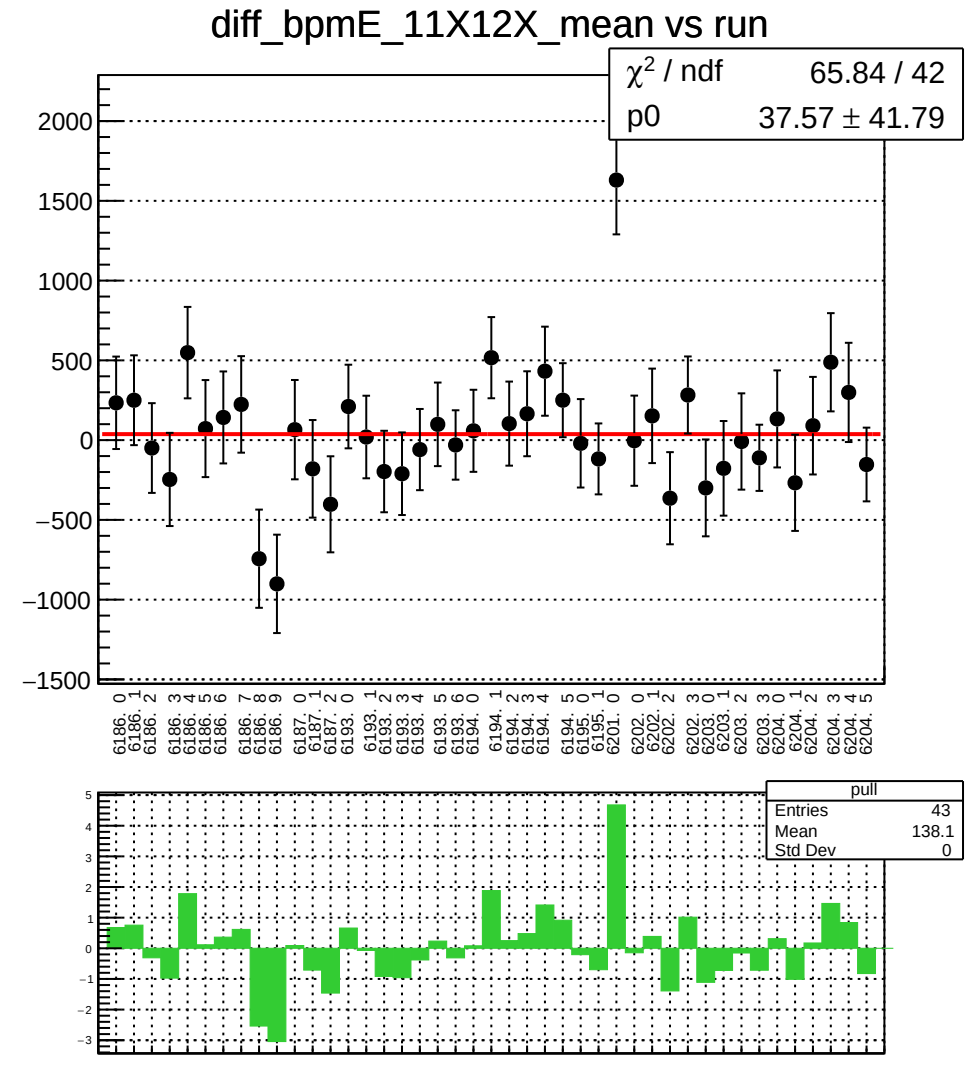

pull1D
Entries 43
Mean 0.01114
Std Dev 1.228
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

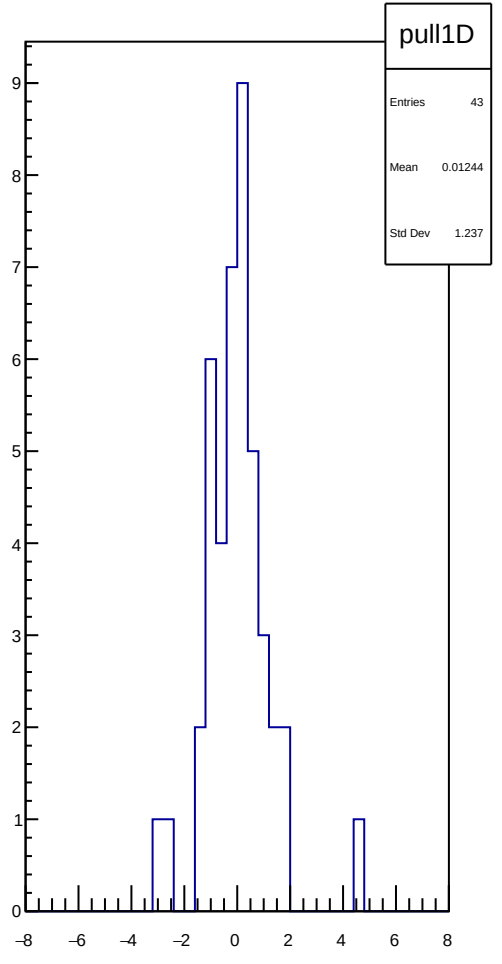

diff_bpmE_rms vs run
χ² / ndf 4140 / 42
p0 3.417e+04 ± 37.26
38000
37000
36000
35000
34000
33000
32000
31000
30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

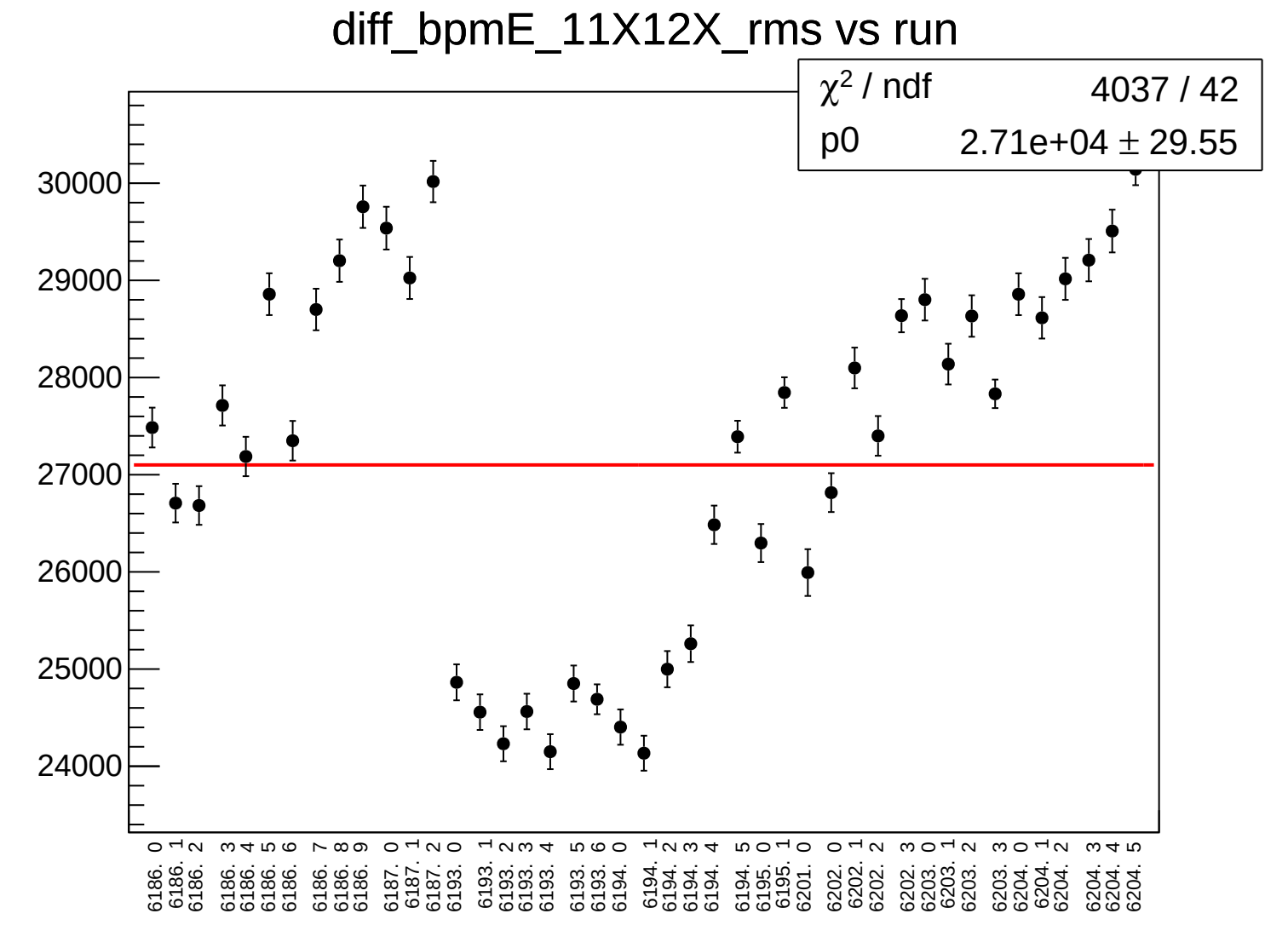

diff_bpmEX_mean vs run
χ² / ndf 64.86 / 42
p0 47.1± 52.7
2500
2000
1500
1000
500
0
−500
−1000
−1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 151.3
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

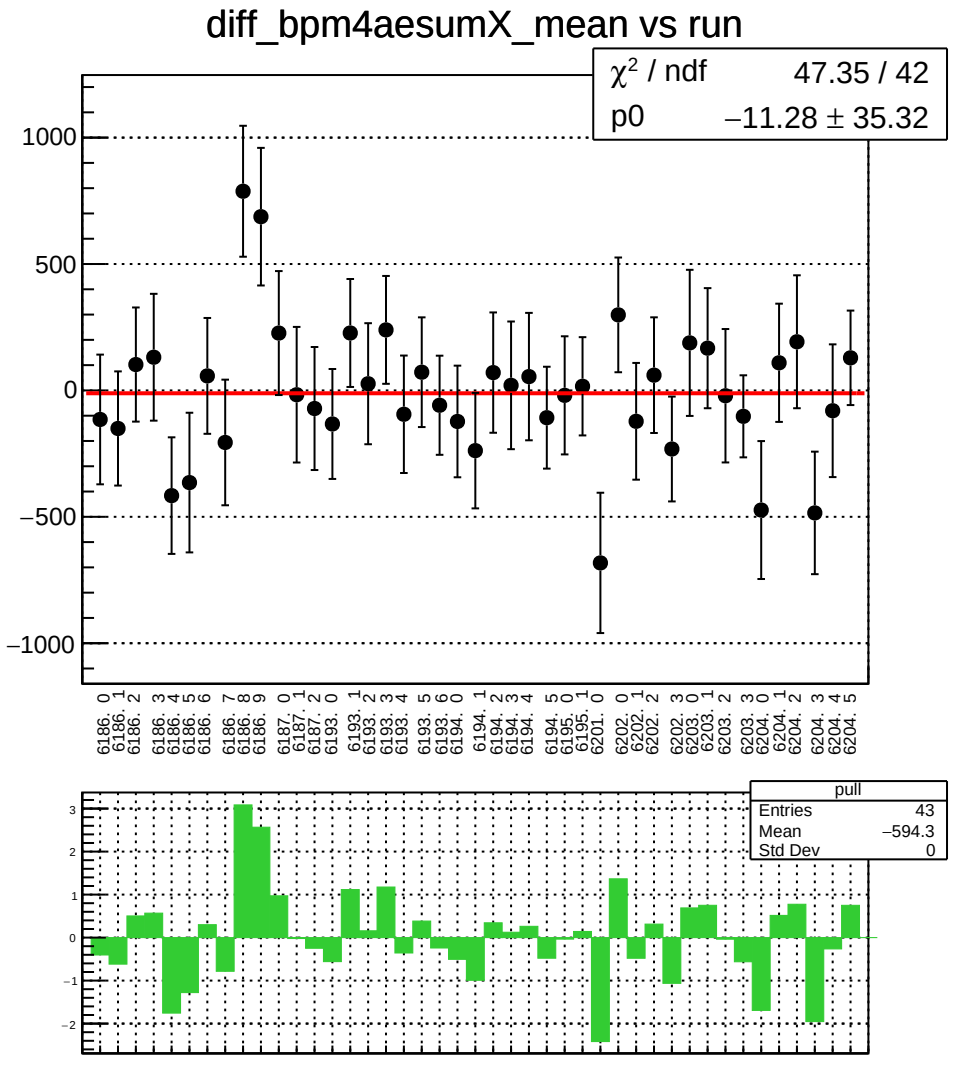

pull1D
Entries 43
Mean 0.01114
Std Dev 1.228
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

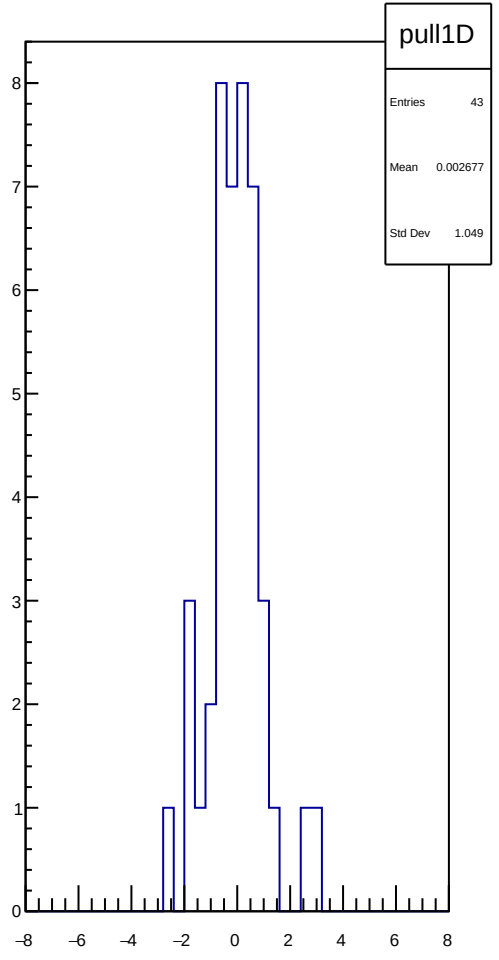

diff_bpmEX_rms vs run
χ² / ndf 4140 / 42
p0 3.417e+04 ± 37.26
38000
37000
36000
35000
34000
33000
32000
31000
30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

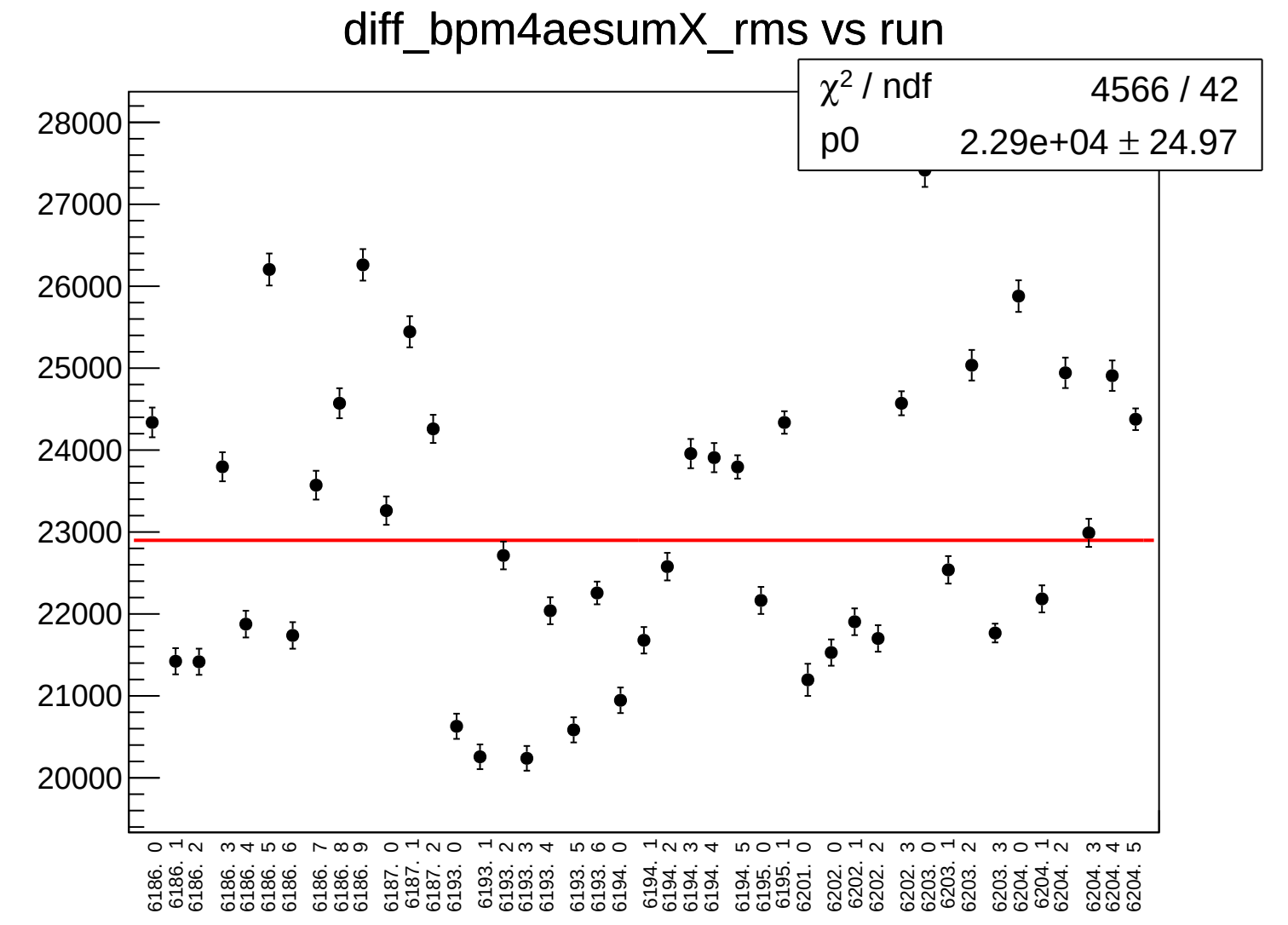

diff_bpmE_11X12X_mean vs run
χ² / ndf 65.84 / 42
p0 37.57 ± 41.79
2000
1500
1000
500
0
−500
−1000
−1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 138.1
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

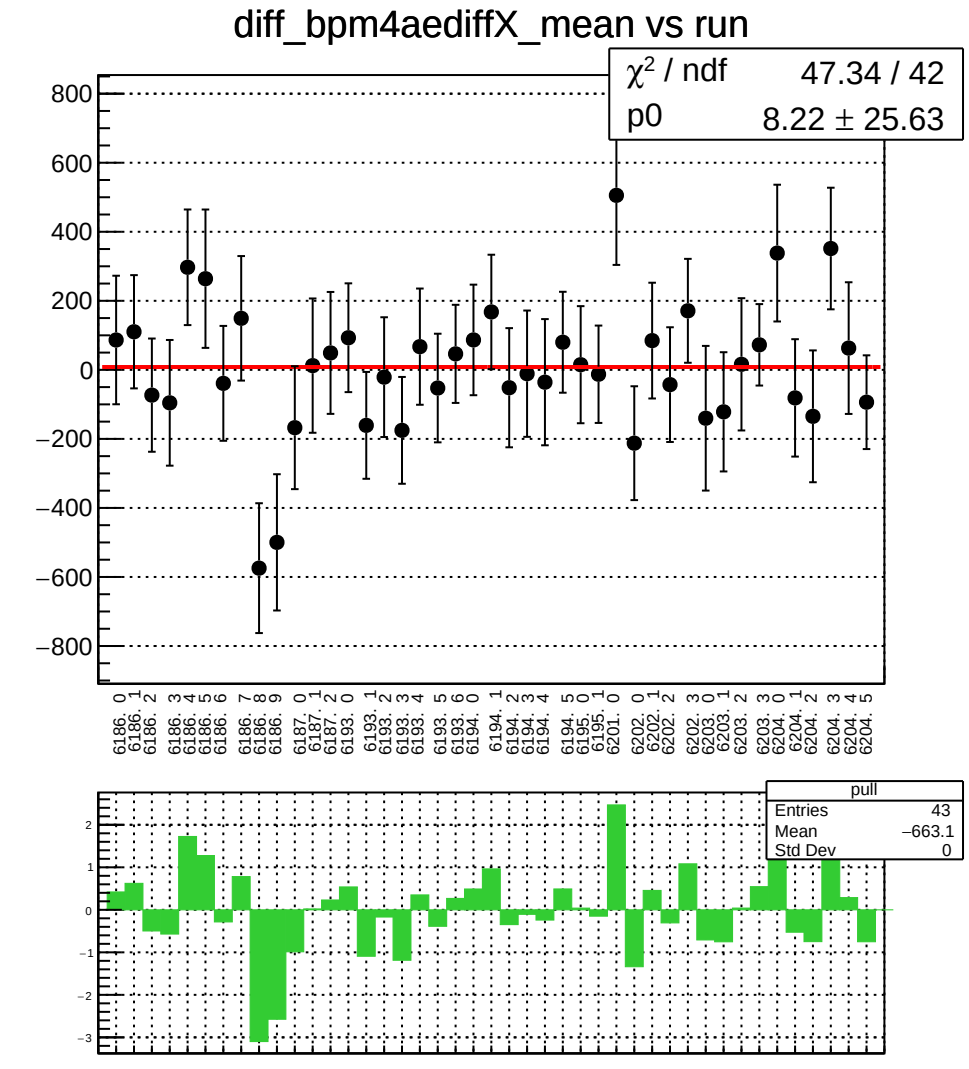

pull1D
Entries 43
Mean 0.01244
Std Dev 1.237
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

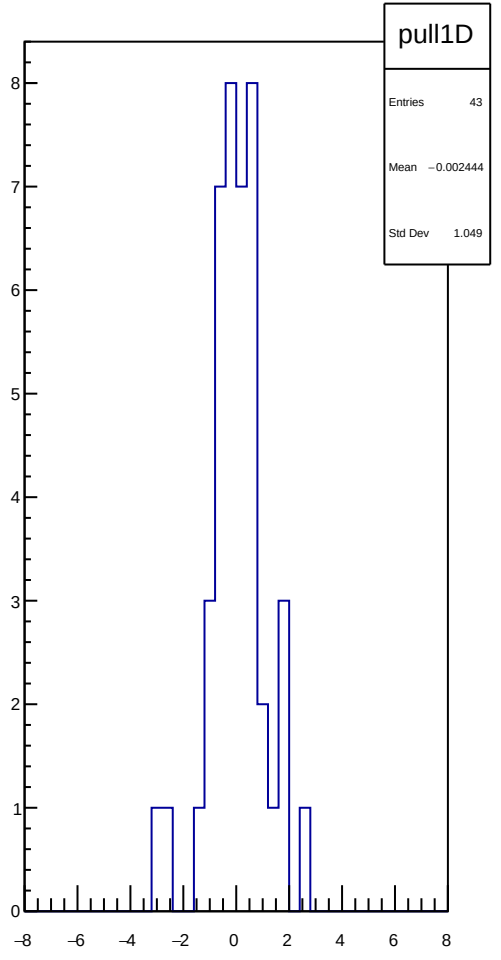

diff_bpmE_11X12X_rms vs run
χ² / ndf 4037 / 42
p0 2.71e+04 ± 29.55
30000
29000
28000
27000
26000
25000
24000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

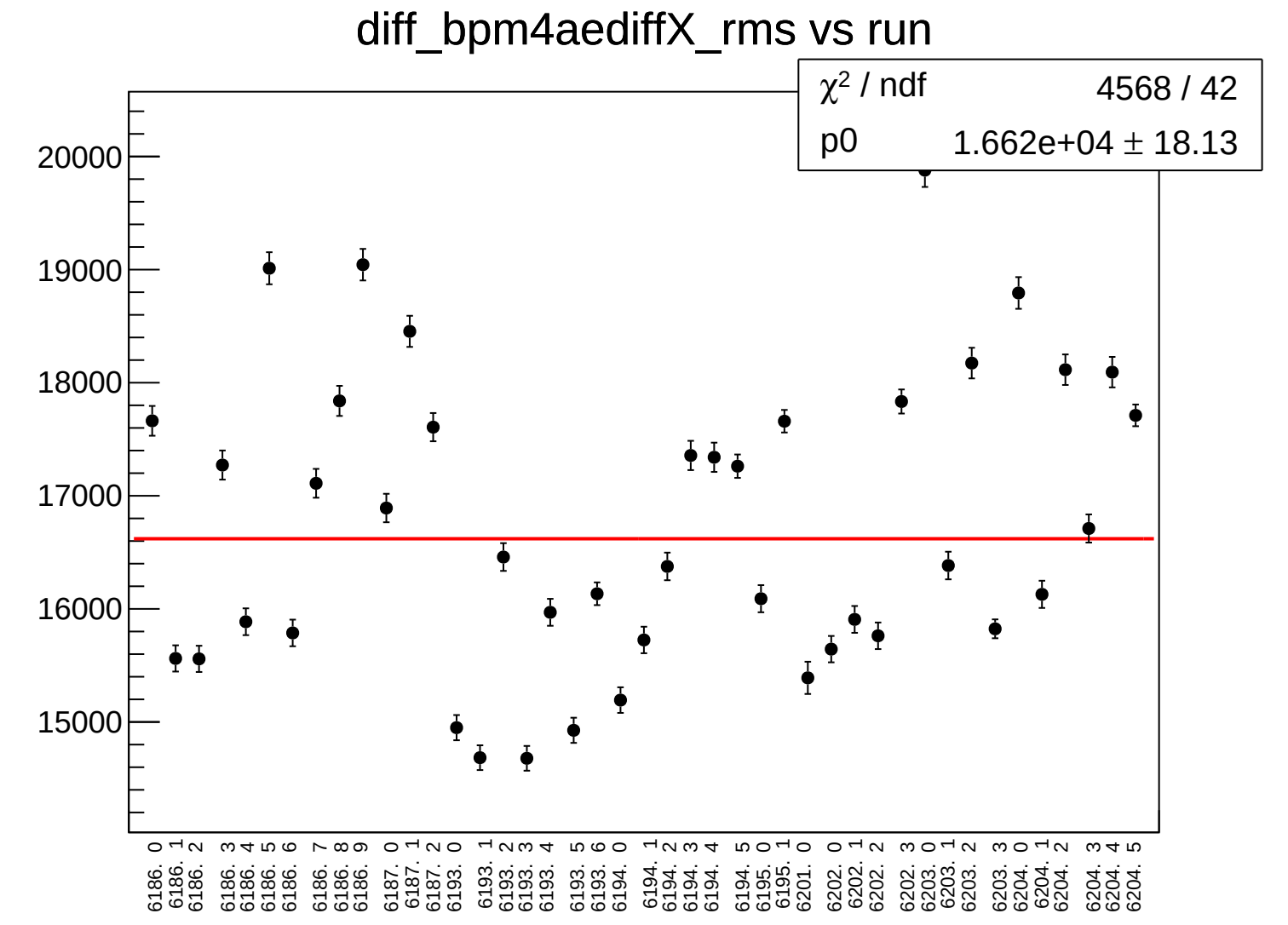

diff_bpm4aesumX_mean vs run
χ² / ndf 47.35 / 42
p0 −11.28 ± 35.32
1000
500
0
−500
−1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −594.3
Std Dev 0
3
2
1
0
−1
−2

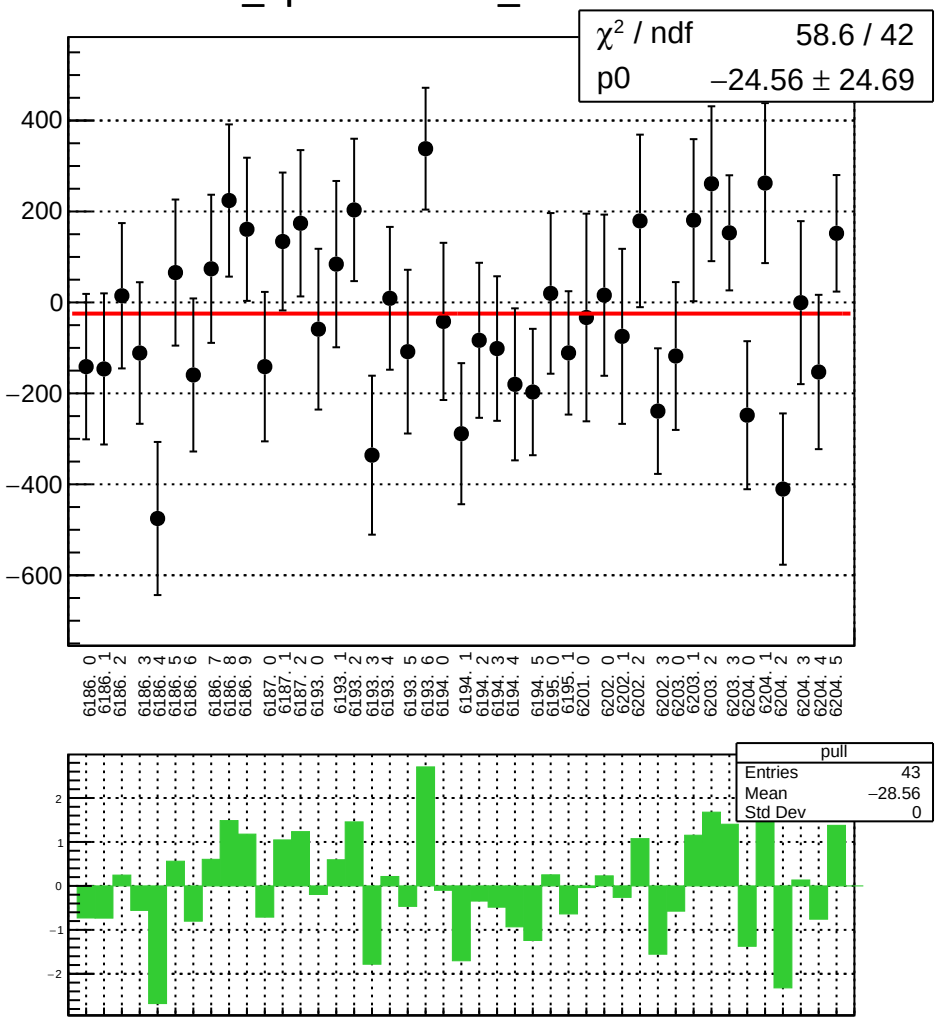

pull1D
Entries 43
Mean 0.002677
Std Dev 1.049
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

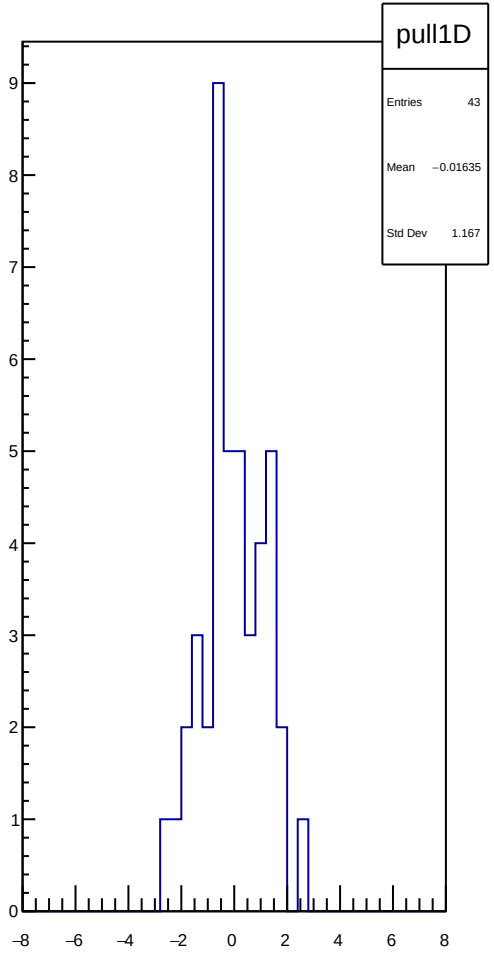

diff_bpm4aesumX_rms vs run
χ² / ndf 4566 / 42
p0 2.29e+04 ± 24.97
28000
27000
26000
25000
24000
23000
22000
21000
20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

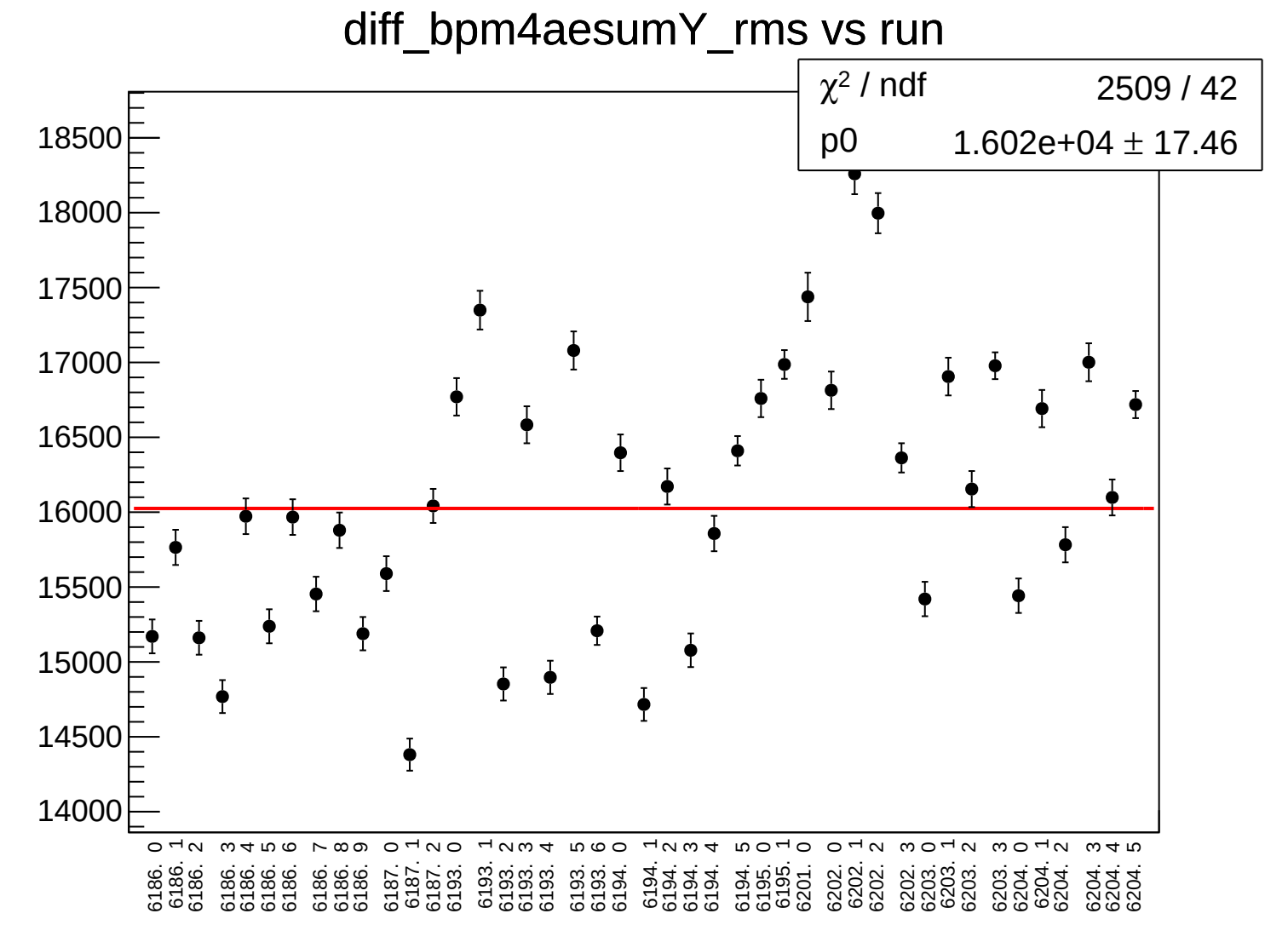

diff_bpm4aediffX_mean vs run
χ² / ndf 47.34 / 42
p0 8.22 ± 25.63
pull
Entries 43
Mean −663.1
Std Dev 0

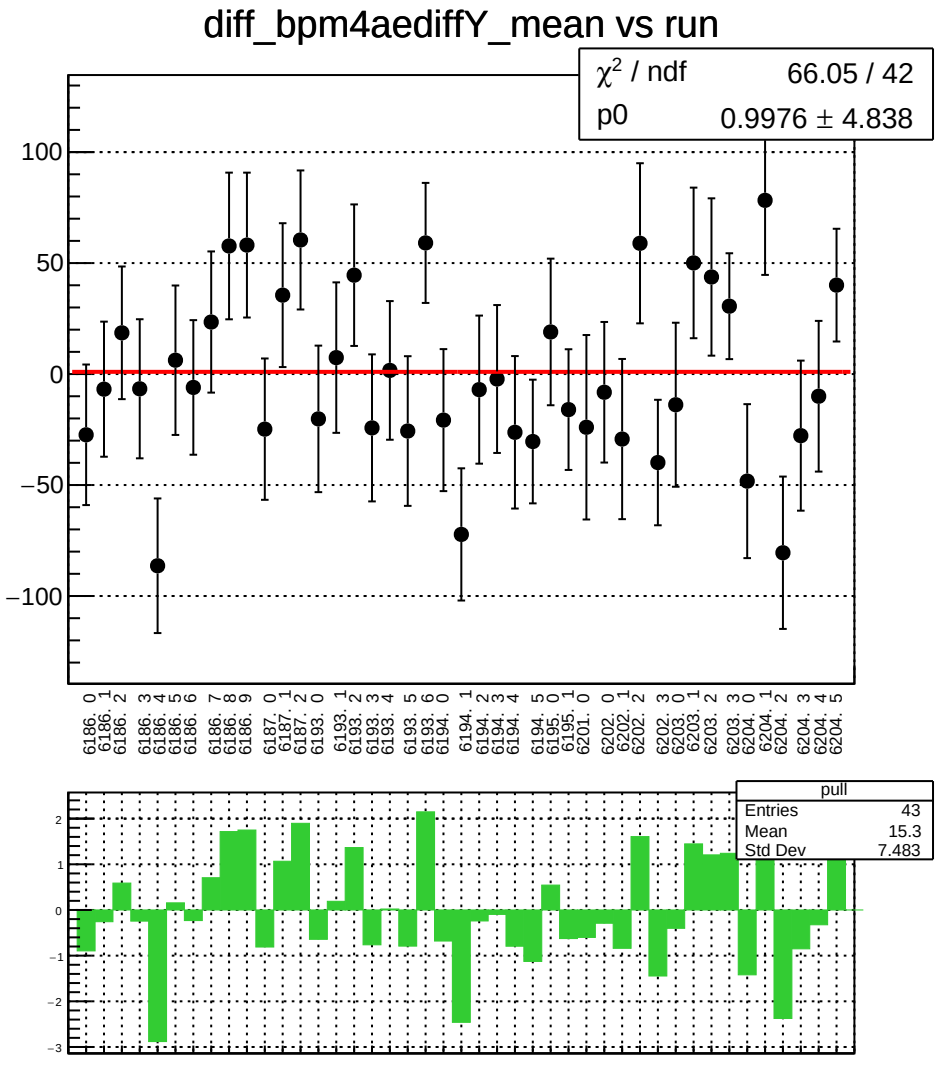

pull1D
Entries 43
Mean −0.002444
Std Dev 1.049

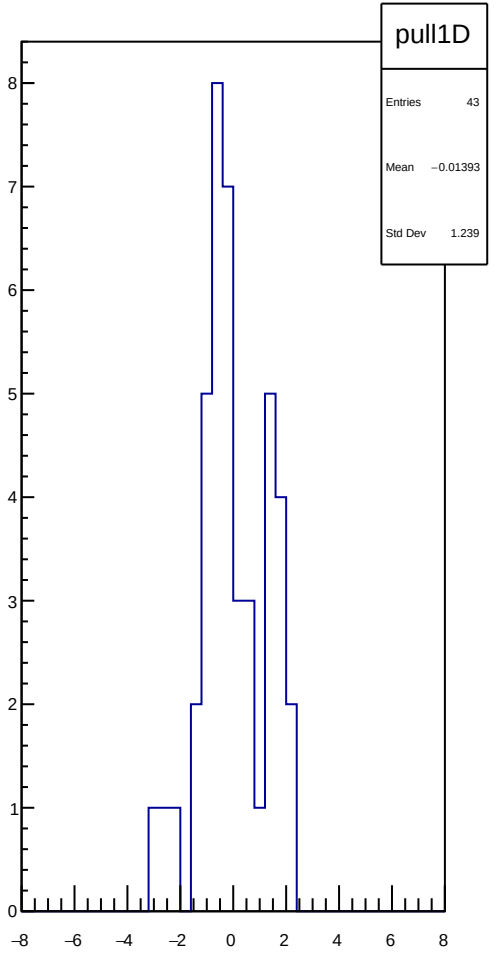

diff_bpm4aediffX_rms vs run
χ² / ndf 4568 / 42
p0 1.662e+04 ± 18.13
20000
19000
18000
17000
16000
15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

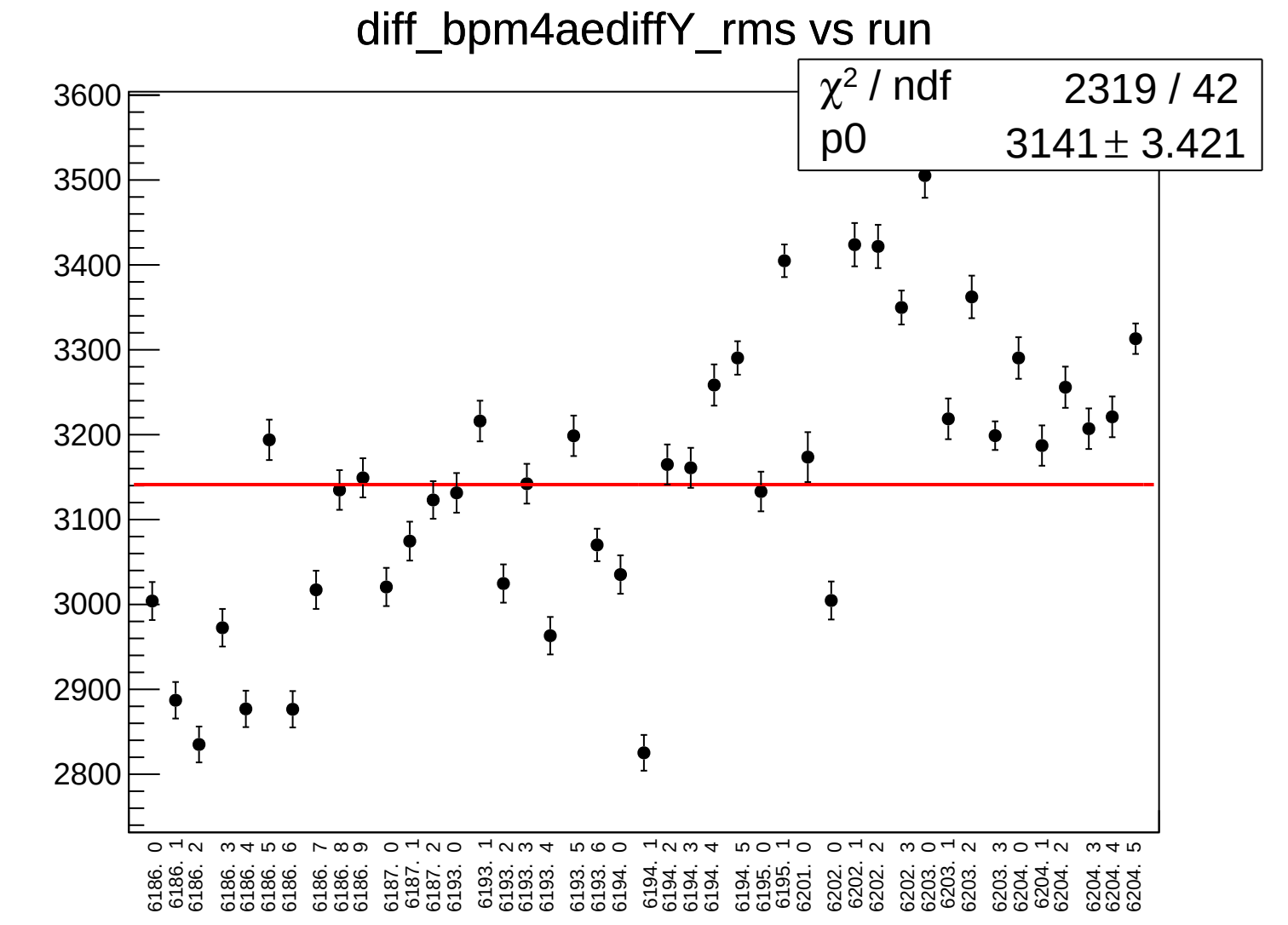

diff_bpm4aesumY_mean vs run
χ² / ndf 58.6 / 42
p0 −24.56 ± 24.69
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −28.56
Std Dev 0
2
1
0
−1
−2

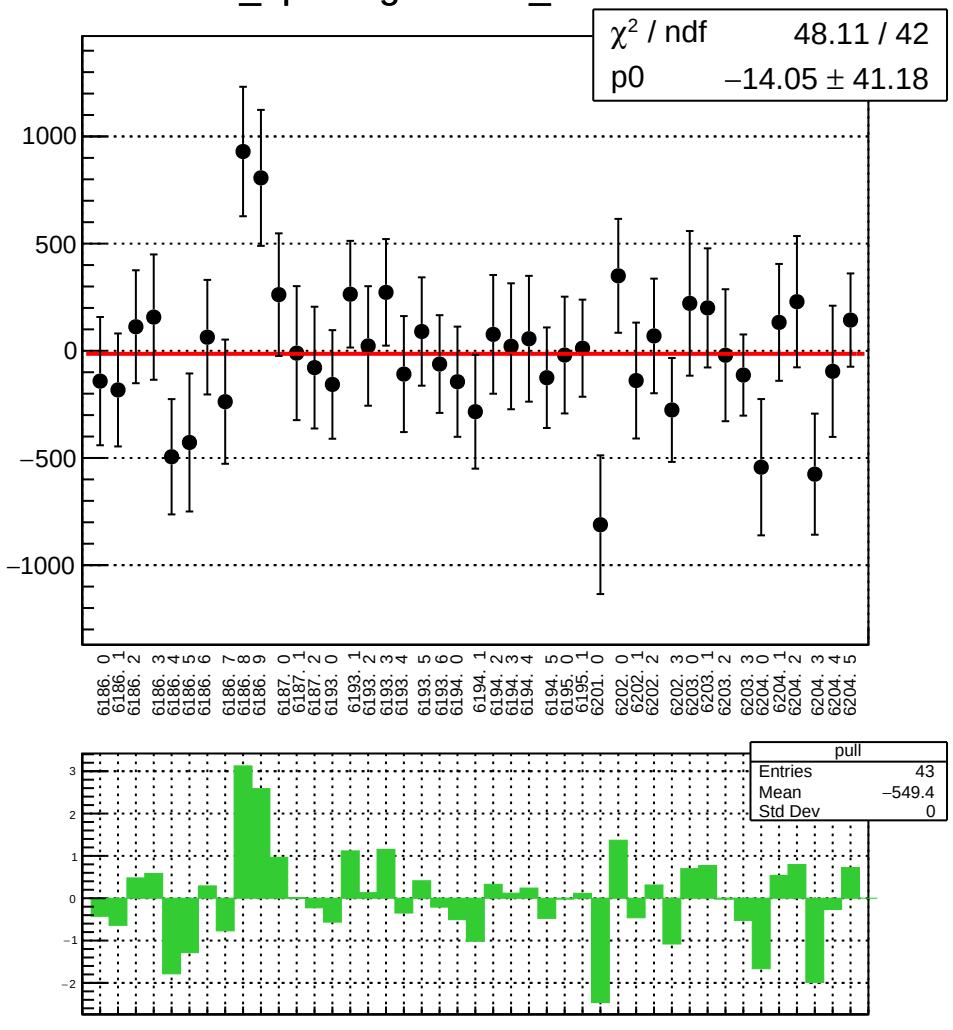

pull1D
Entries 43
Mean −0.01635
Std Dev 1.167
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

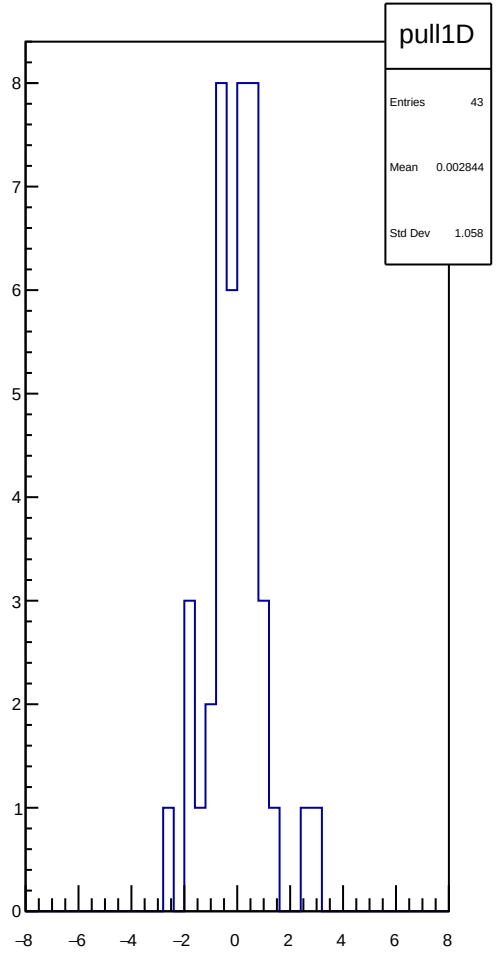

diff_bpm4aesumY_rms vs run
χ² / ndf 2509 / 42
p0 1.602e+04 ± 17.46
18500
18000
17500
17000
16500
16000
15500
15000
14500
14000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

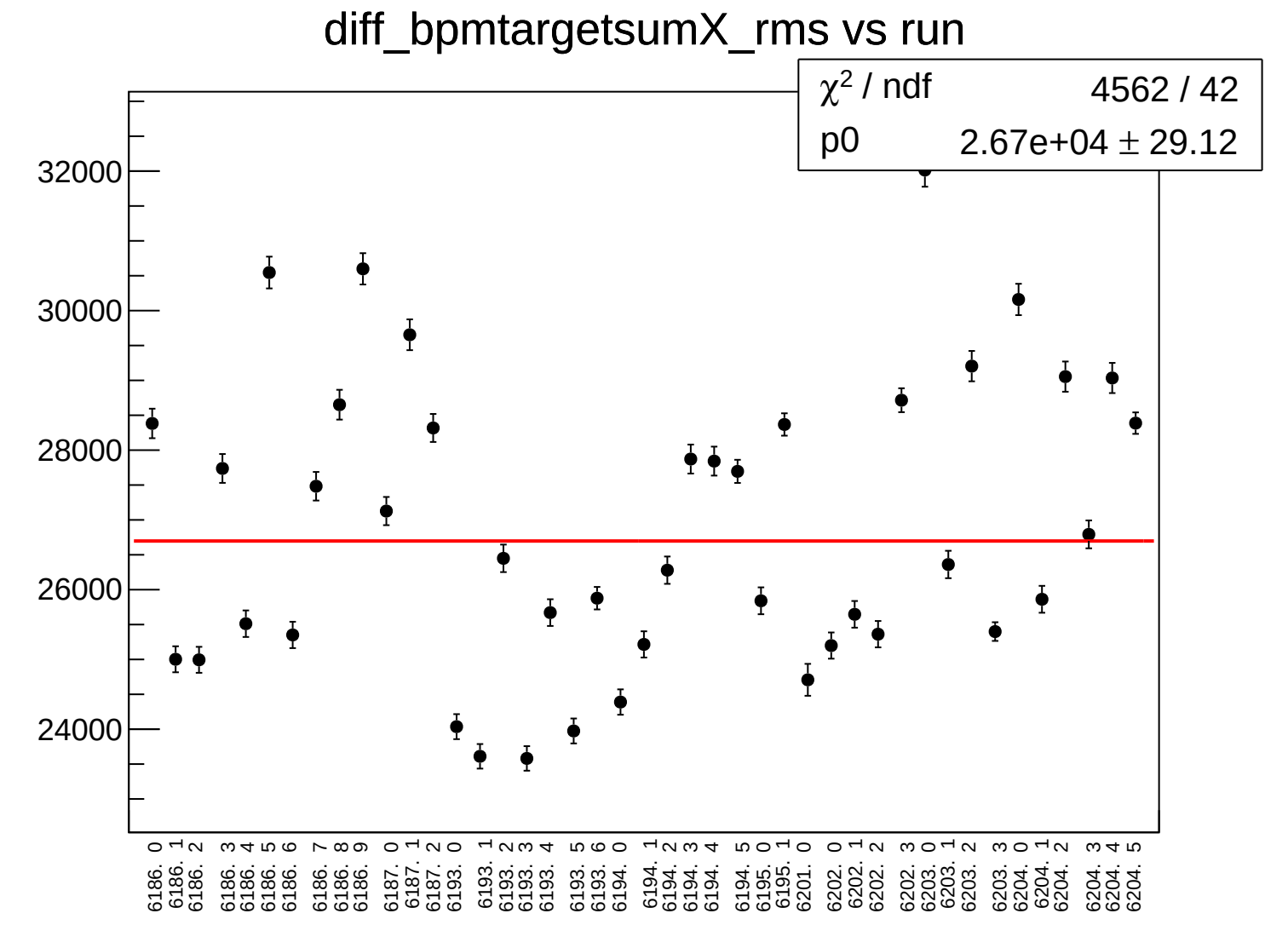

diff_bpm4aediffY_mean vs run
χ² / ndf 66.05 / 42
p0 0.9976 ± 4.838
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 15.3
Std Dev 7.483
2
1
0
−1
−2
−3

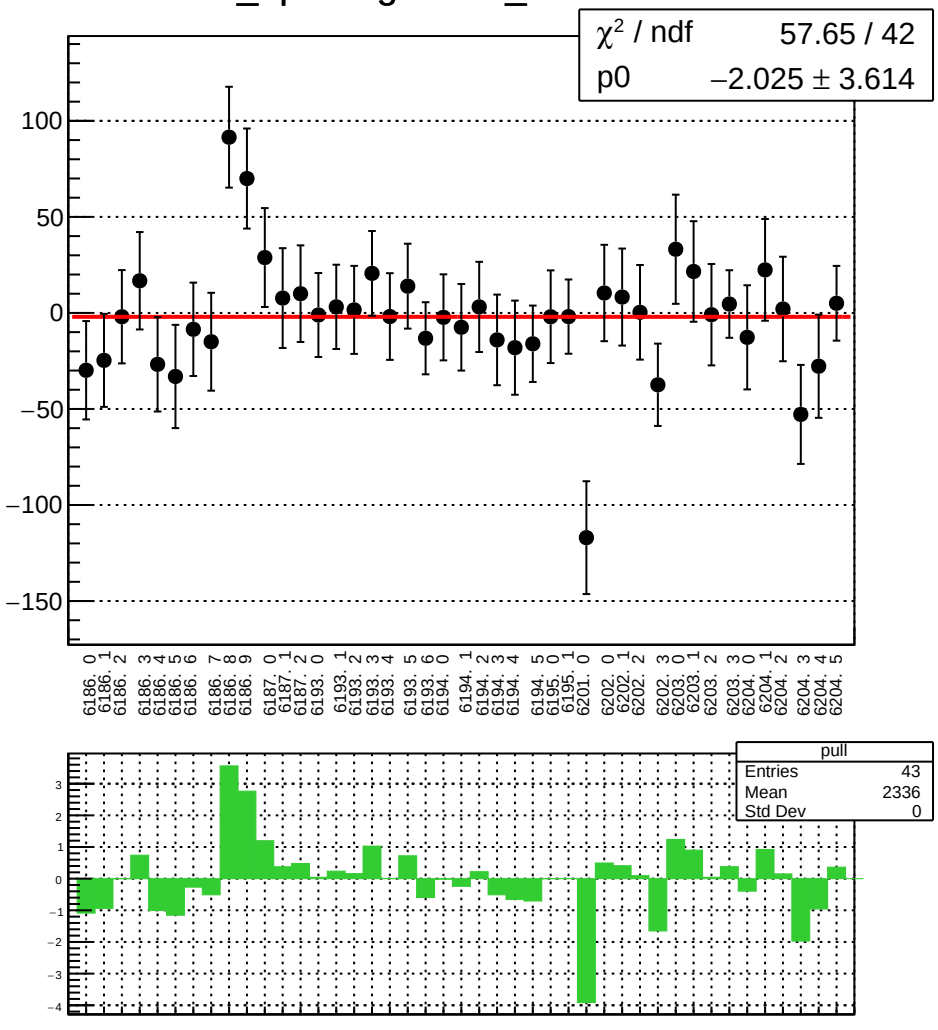

pull1D
Entries 43
Mean −0.01393
Std Dev 1.239
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

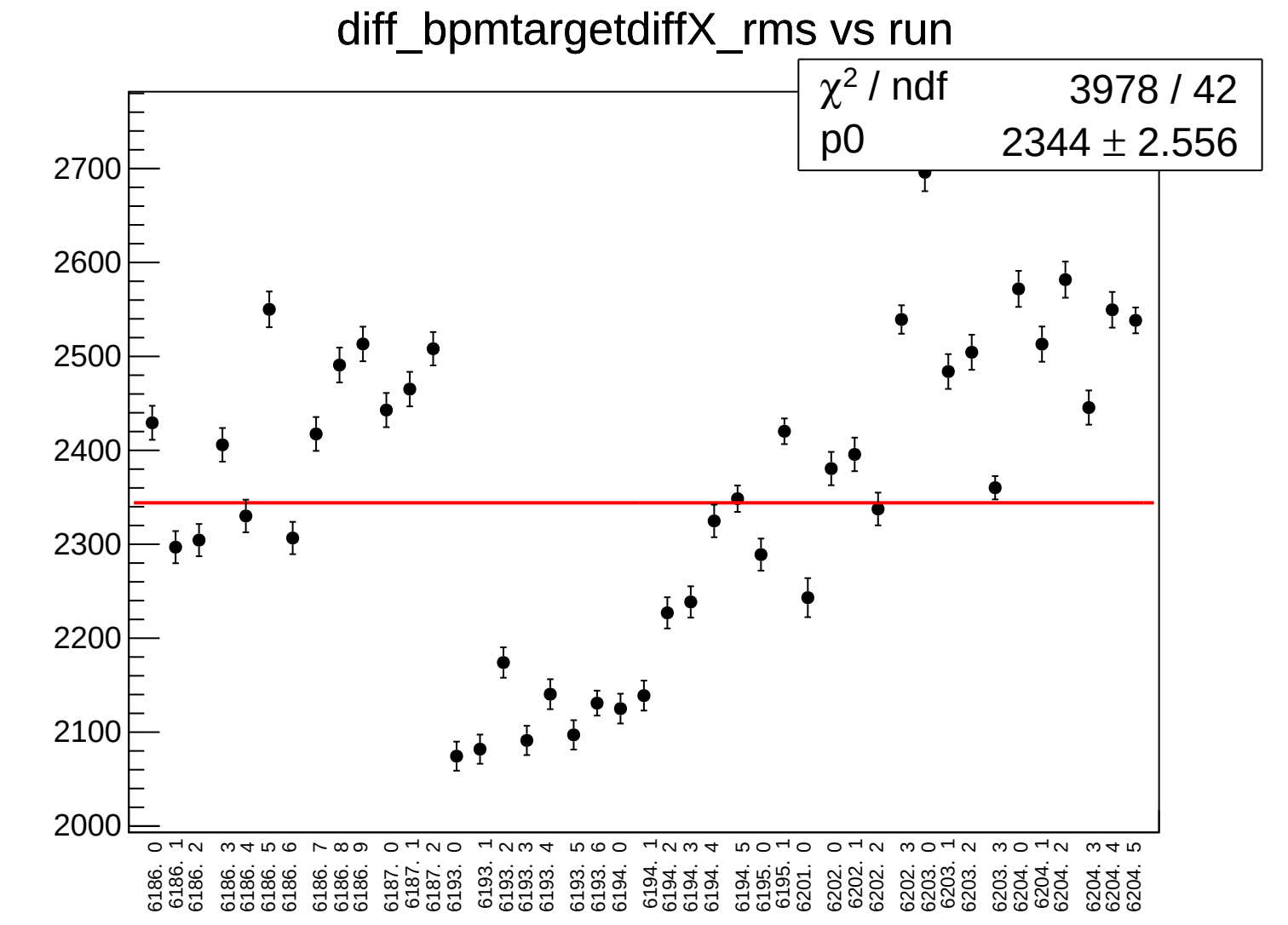

diff_bpm4aediffY_rms vs run
χ² / ndf 2319 / 42
p0 3141 ± 3.421
3600
3500
3400
3300
3200
3100
3000
2900
2800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

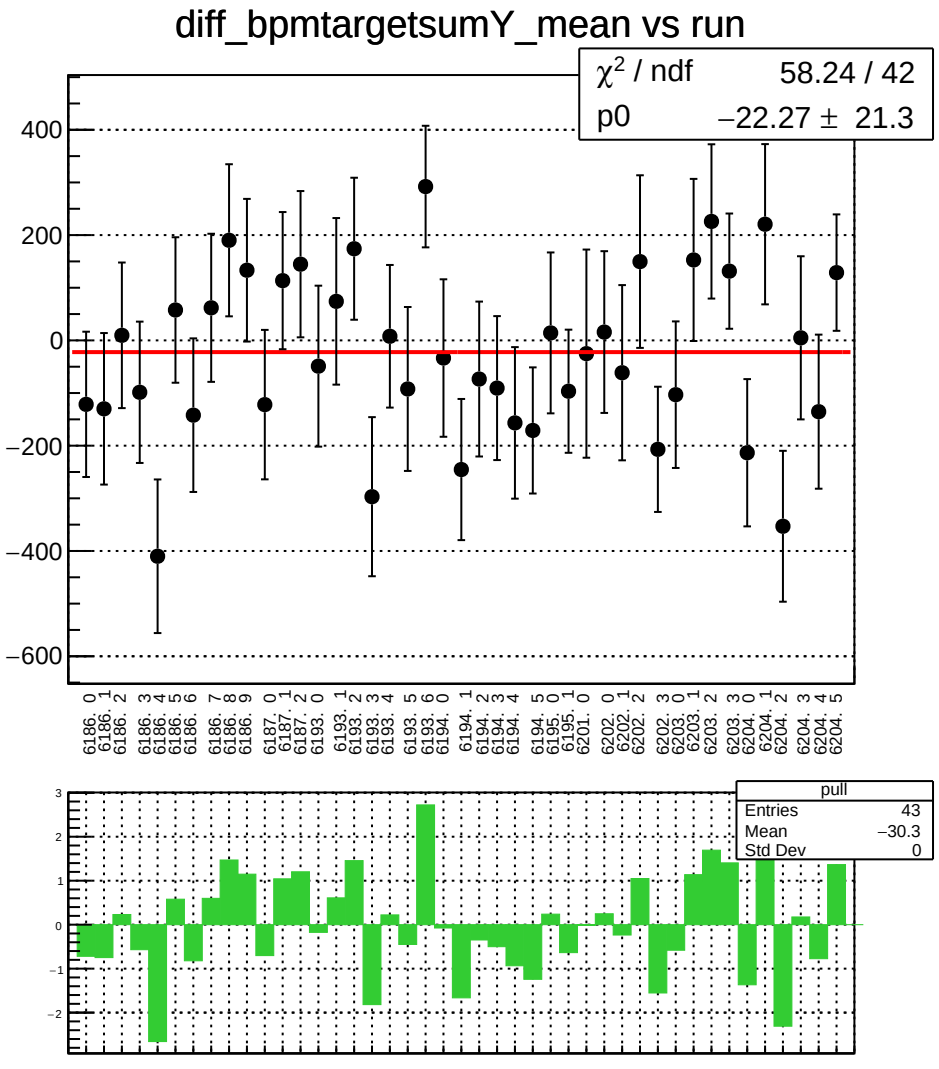

diff_bpmtargetsumX_mean vs run
χ² / ndf 48.11 / 42
p0 −14.05 ± 41.18
1000
500
0
−500
−1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −549.4
Std Dev 0
3
2
1
0
−1
−2

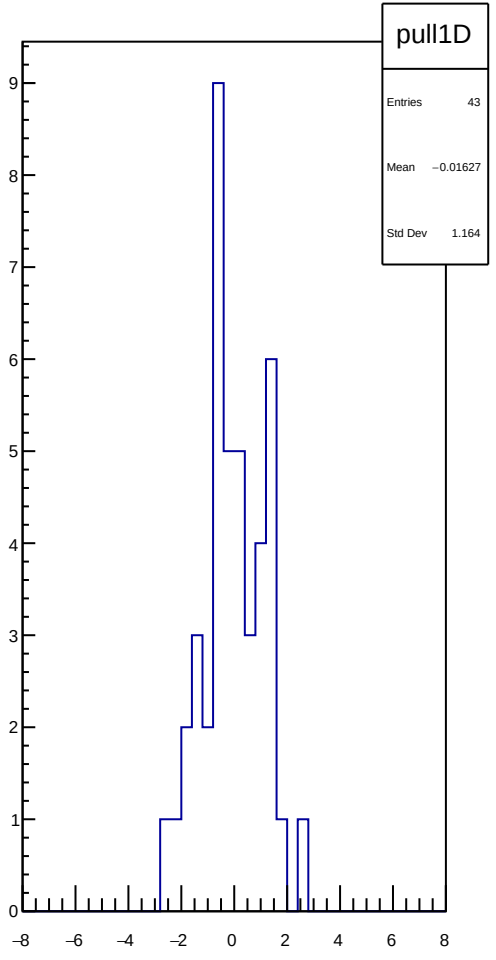

pull1D
Entries 43
Mean 0.002844
Std Dev 1.058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

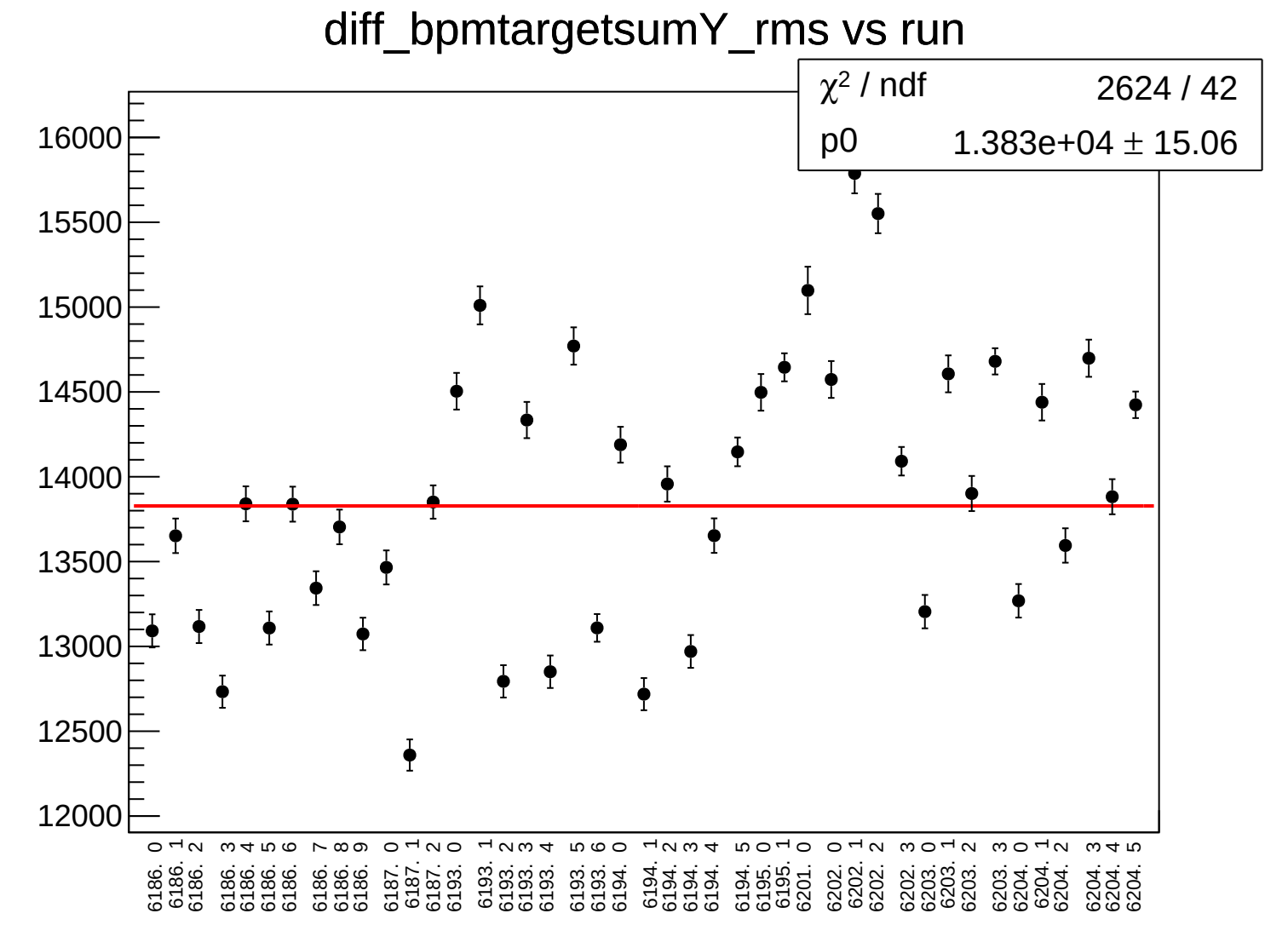

diff_bpmtargetsumX_rms vs run
χ² / ndf 4562 / 42
p0 2.67e+04 ± 29.12
32000
30000
28000
26000
24000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

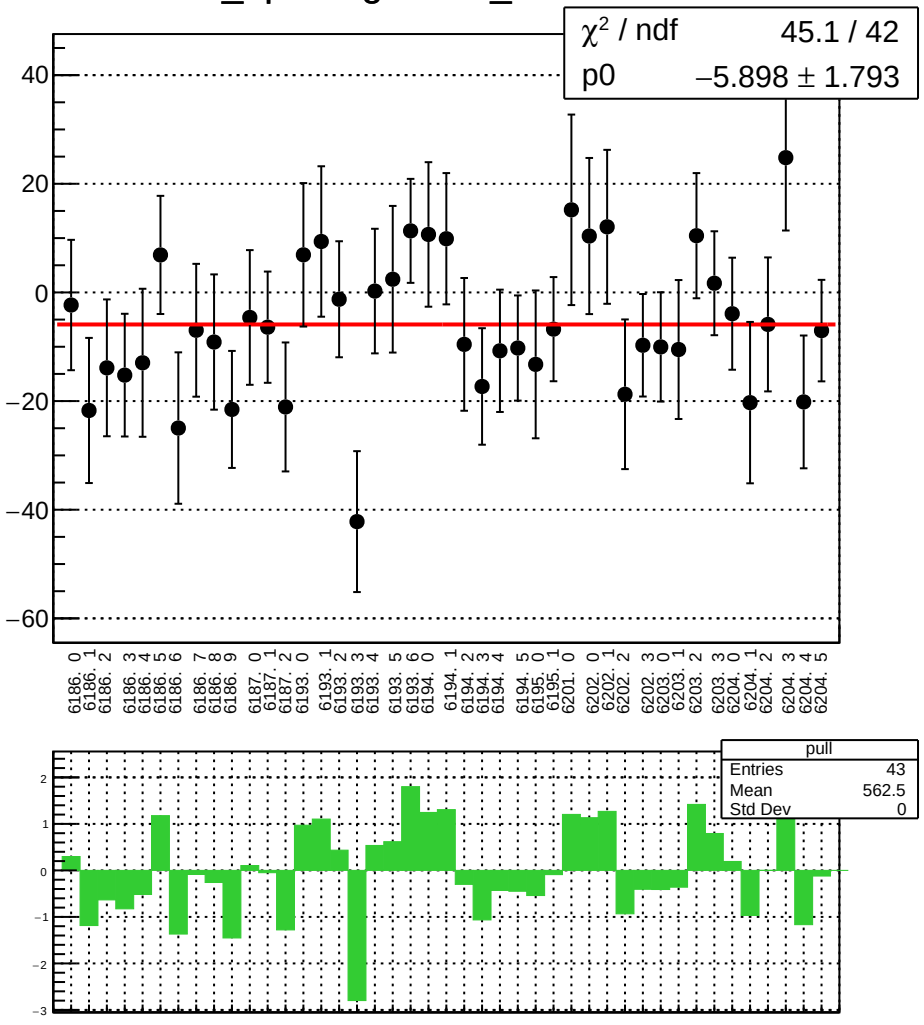

diff_bpmtargetdiffX_mean vs run
χ² / ndf 57.65 / 42
p0 −2.025 ± 3.614
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2336
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.0008183
Std Dev 1.158
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

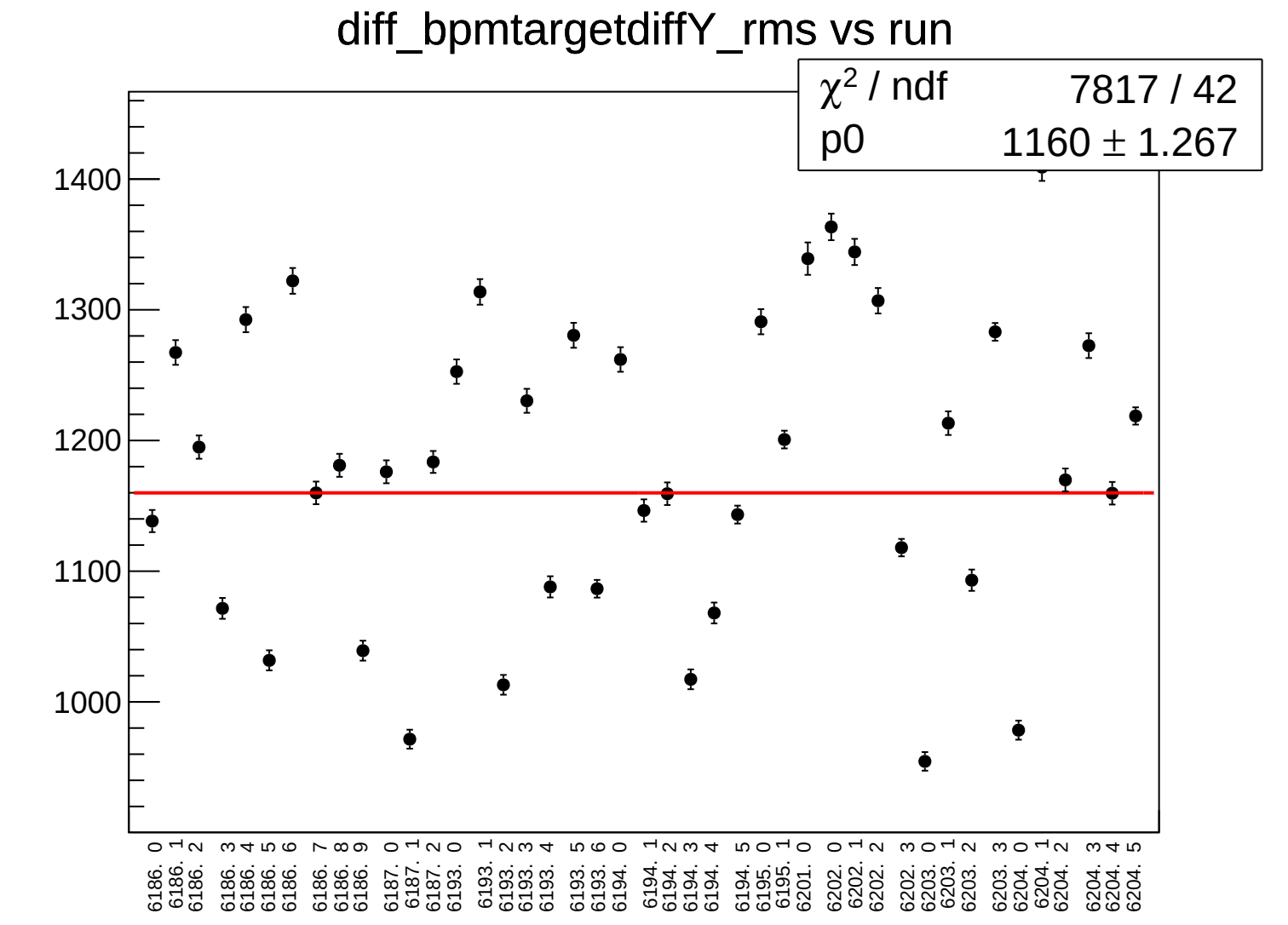

diff_bpmtargetdiffX_rms vs run
χ² / ndf 3978 / 42
p0 2344 ± 2.556
2700
2600
2500
2400
2300
2200
2100
2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

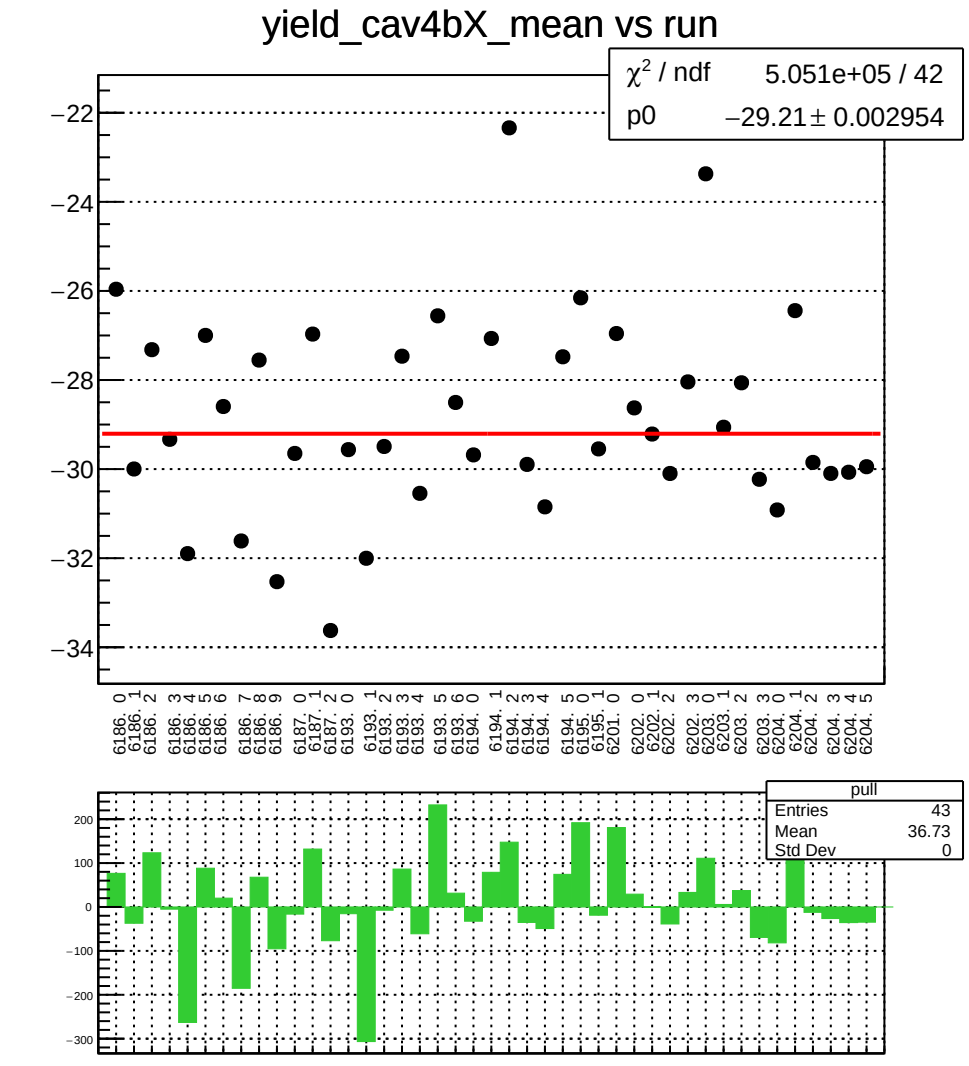

diff_bpmtargetsumY_mean vs run
χ² / ndf 58.24 / 42
p0 −22.27 ± 21.3
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −30.3
Std Dev 0
3
2
1
0
−1
−2

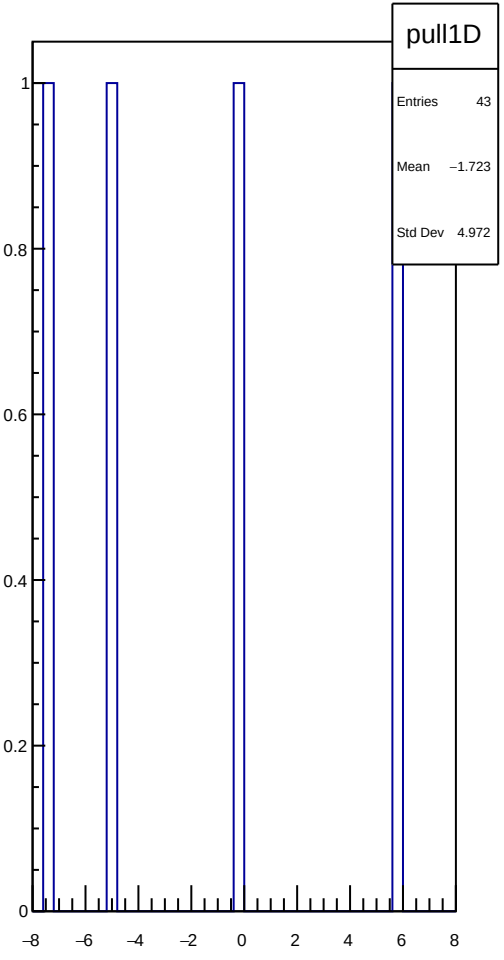

pull1D
Entries 43
Mean −0.01627
Std Dev 1.164
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

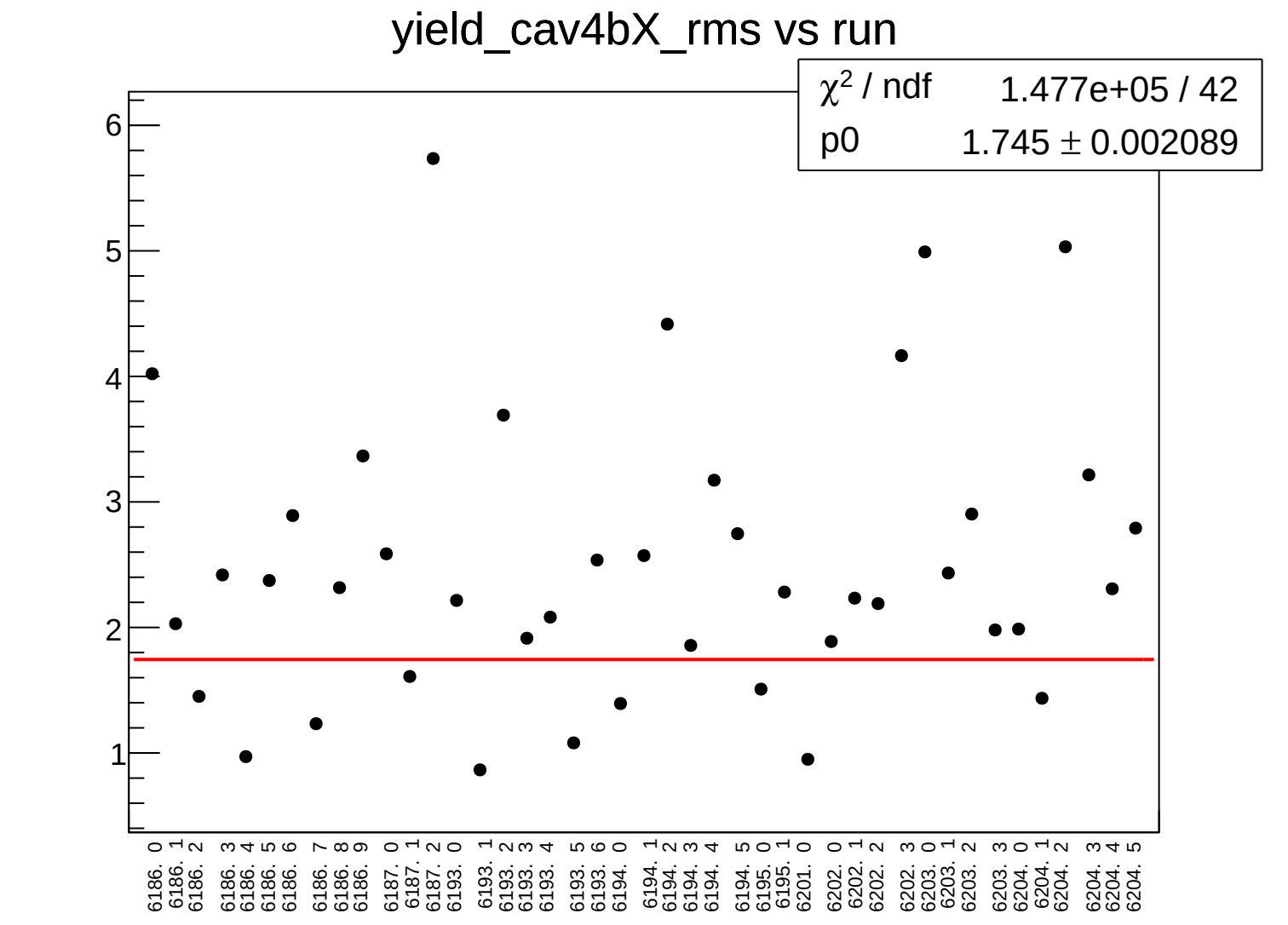

diff_bpmtargetsumY_rms vs run
χ² / ndf 2624 / 42
p0 1.383e+04 ± 15.06
16000
15500
15000
14500
14000
13500
13000
12500
12000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

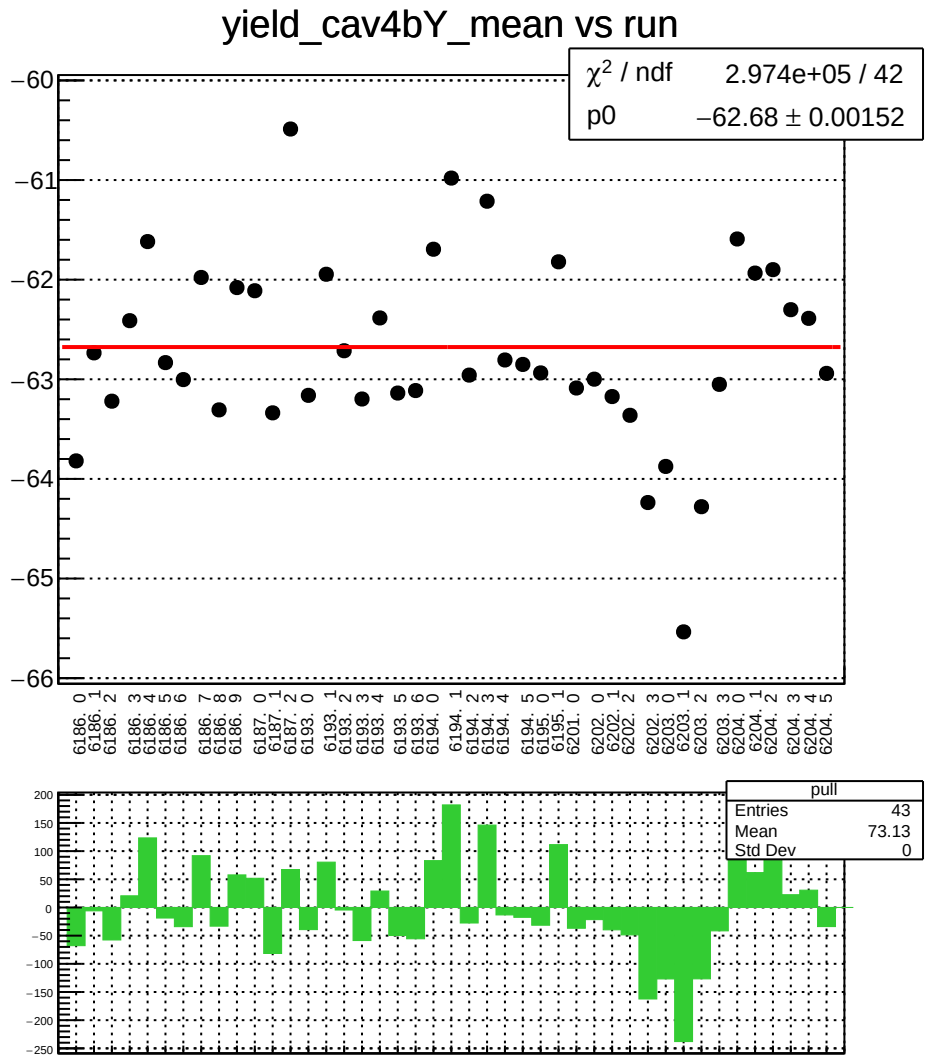

diff_bpmtargetdiffY_mean vs run
χ² / ndf 45.1 / 42
p0 −5.898 ± 1.793
40
20
0
−20
−40
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 562.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.004622
Std Dev 1.024
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

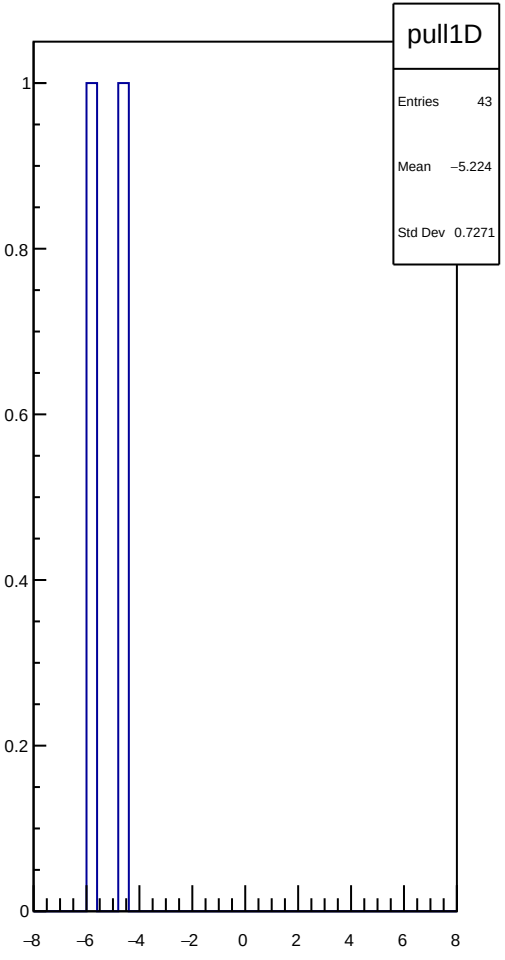

diff_bpmtargetdiffY_rms vs run
χ² / ndf 7817 / 42
p0 1160 ± 1.267
1400
1300
1200
1100
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

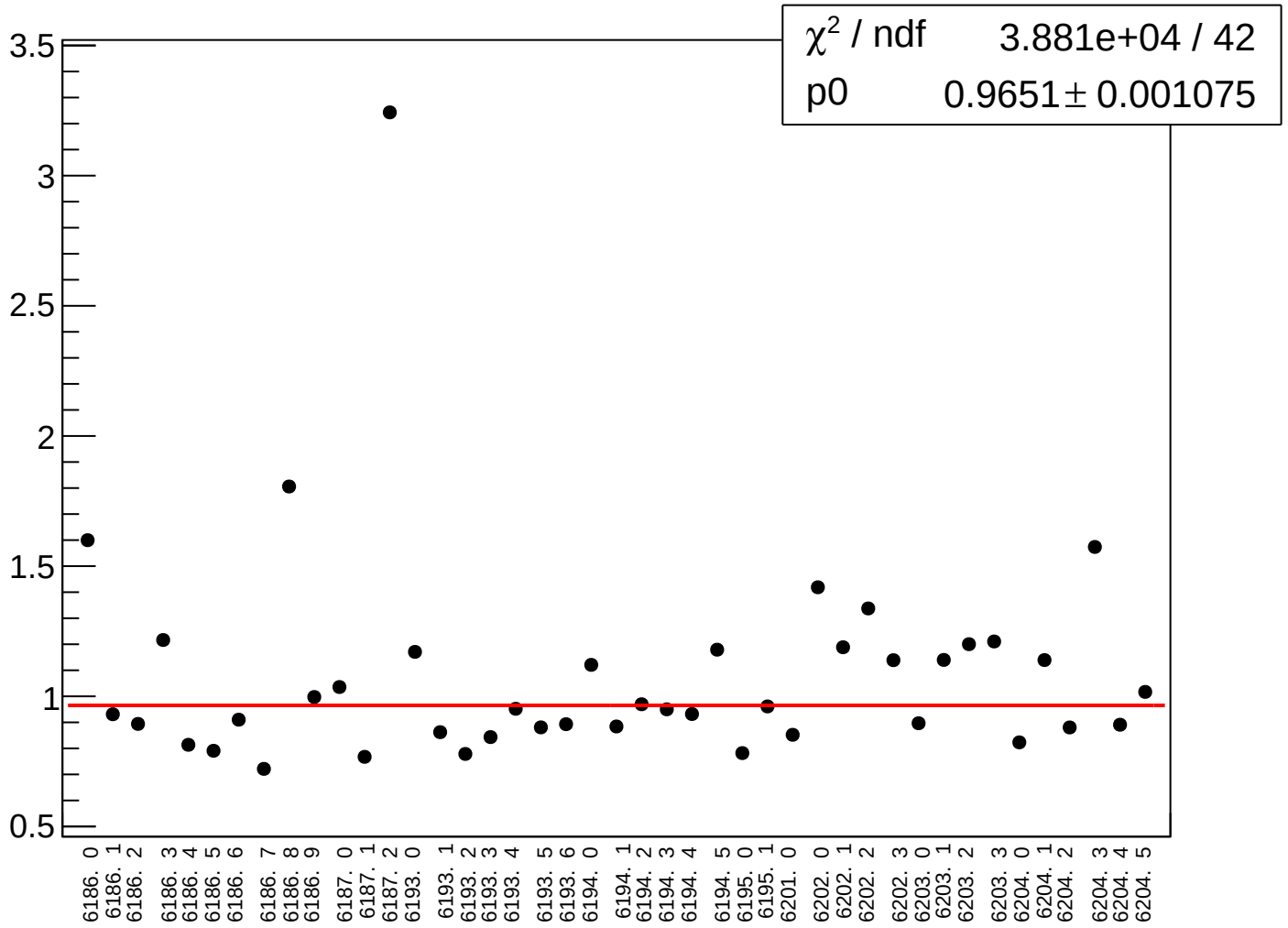

yield_cav4bX_mean vs run
χ² / ndf 5.051e+05 / 42
p0 −29.21 ± 0.002954
−22
−24
−26
−28
−30
−32
−34
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 36.73
Std Dev 0
200
100
0
−100
−200
−300

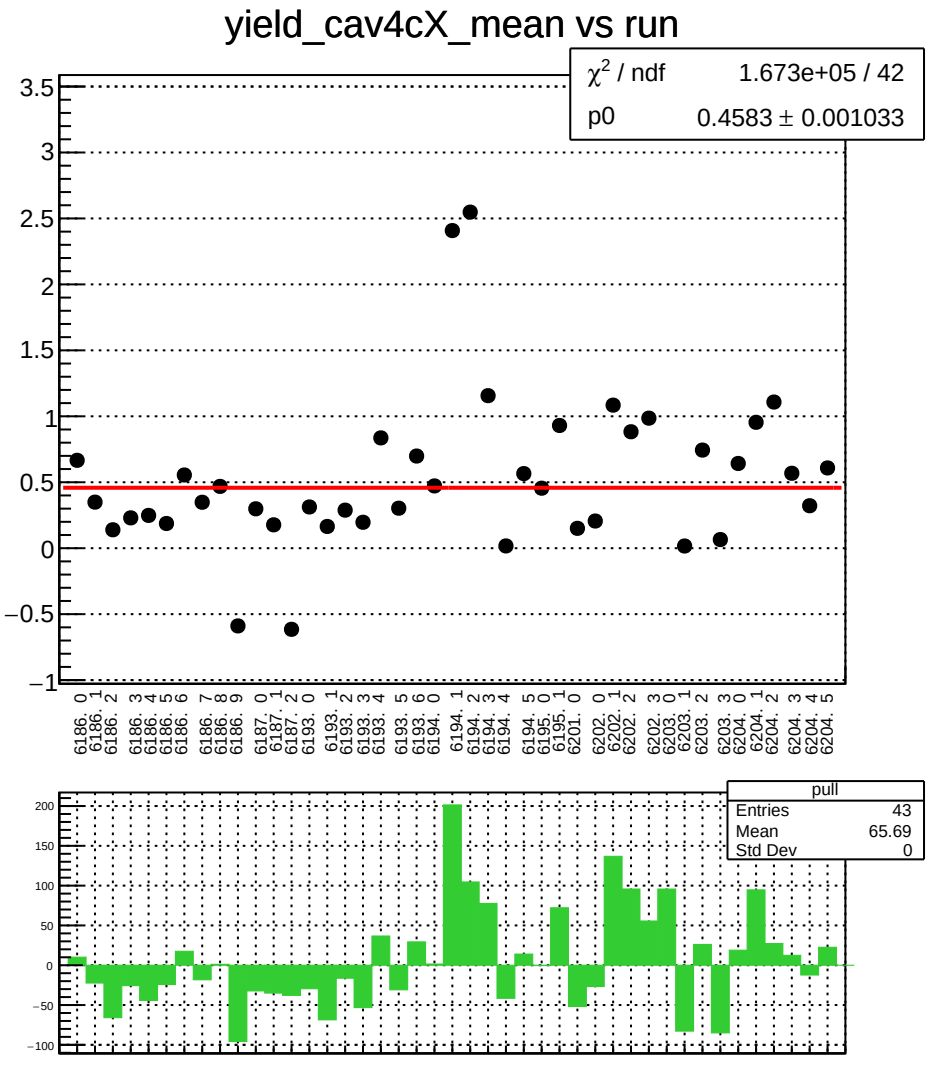

pull1D
Entries 43
Mean −1.723
Std Dev 4.972
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

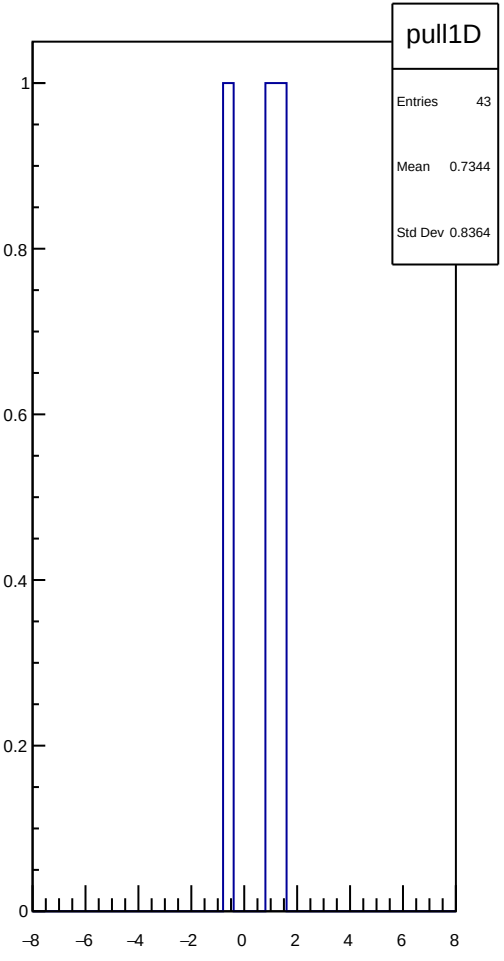

yield_cav4bX_rms vs run
χ² / ndf 1.477e+05 / 42
p0 1.745 ± 0.002089
6
5
4
3
2
1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

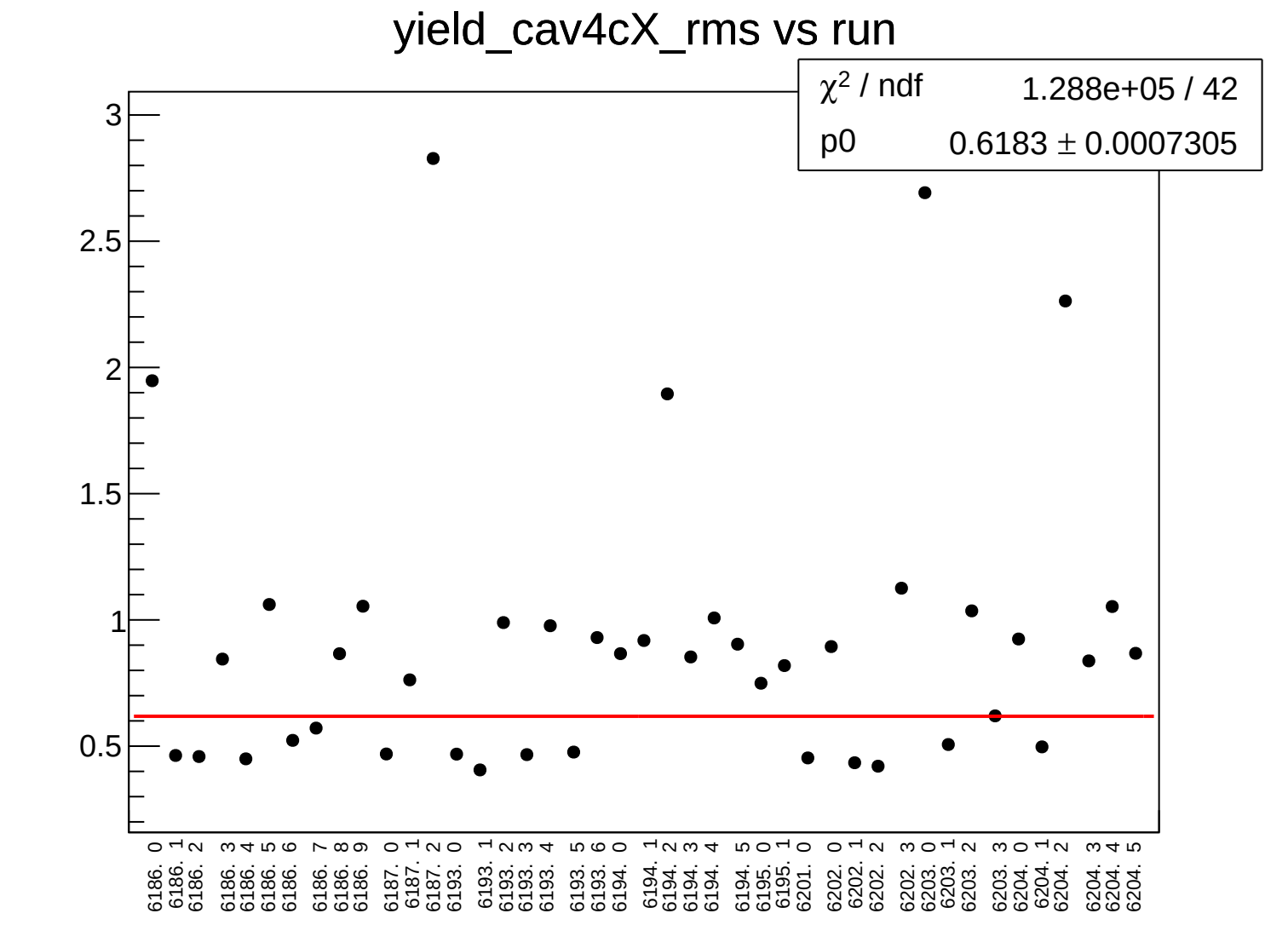

yield_cav4bY_mean vs run
χ² / ndf 2.974e+05 / 42
p0 −62.68 ± 0.00152
−60
−61
−62
−63
−64
−65
−66
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 73.13
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

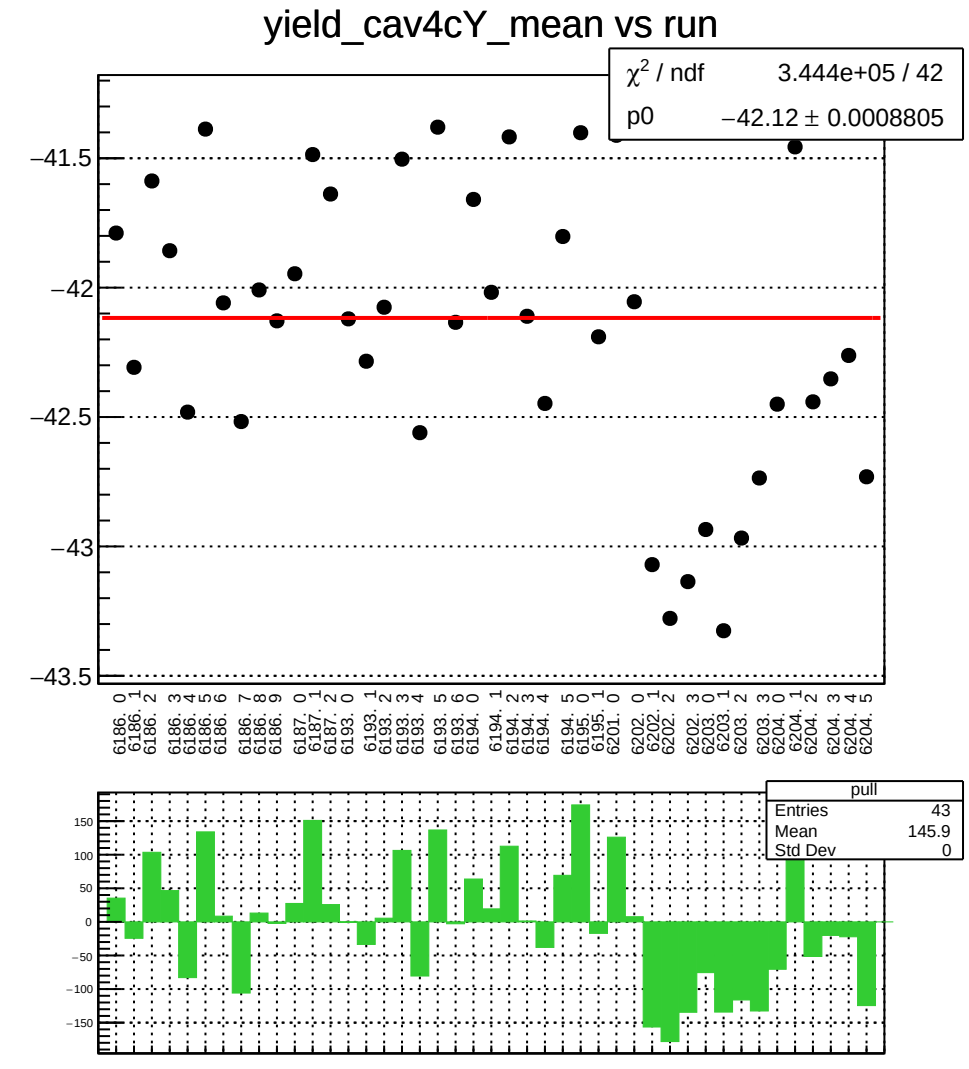

pull1D
Entries 43
Mean −5.224
Std Dev 0.7271
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

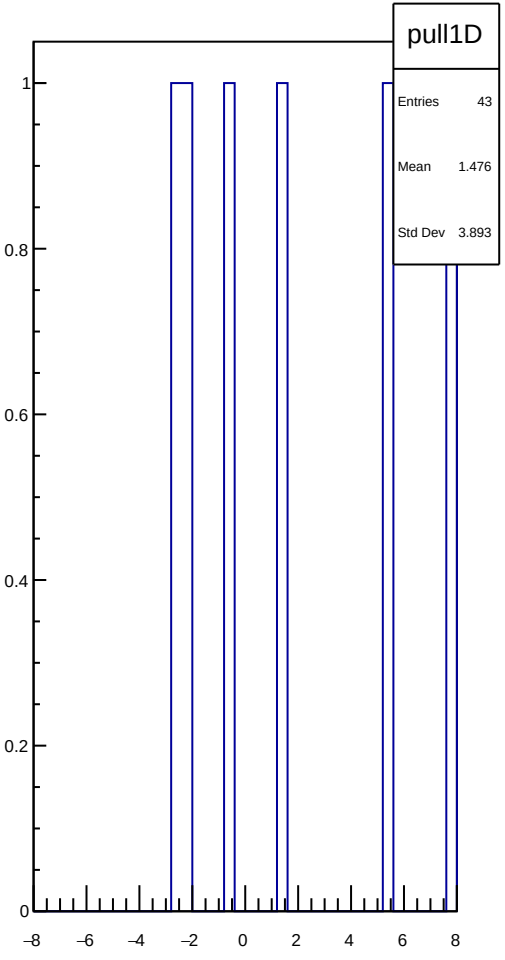

yield_cav4bY_rms vs run
χ² / ndf 3.881e+04 / 42
p0 0.9651 ± 0.001075
3.5
3
2.5
2
1.5
1
0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

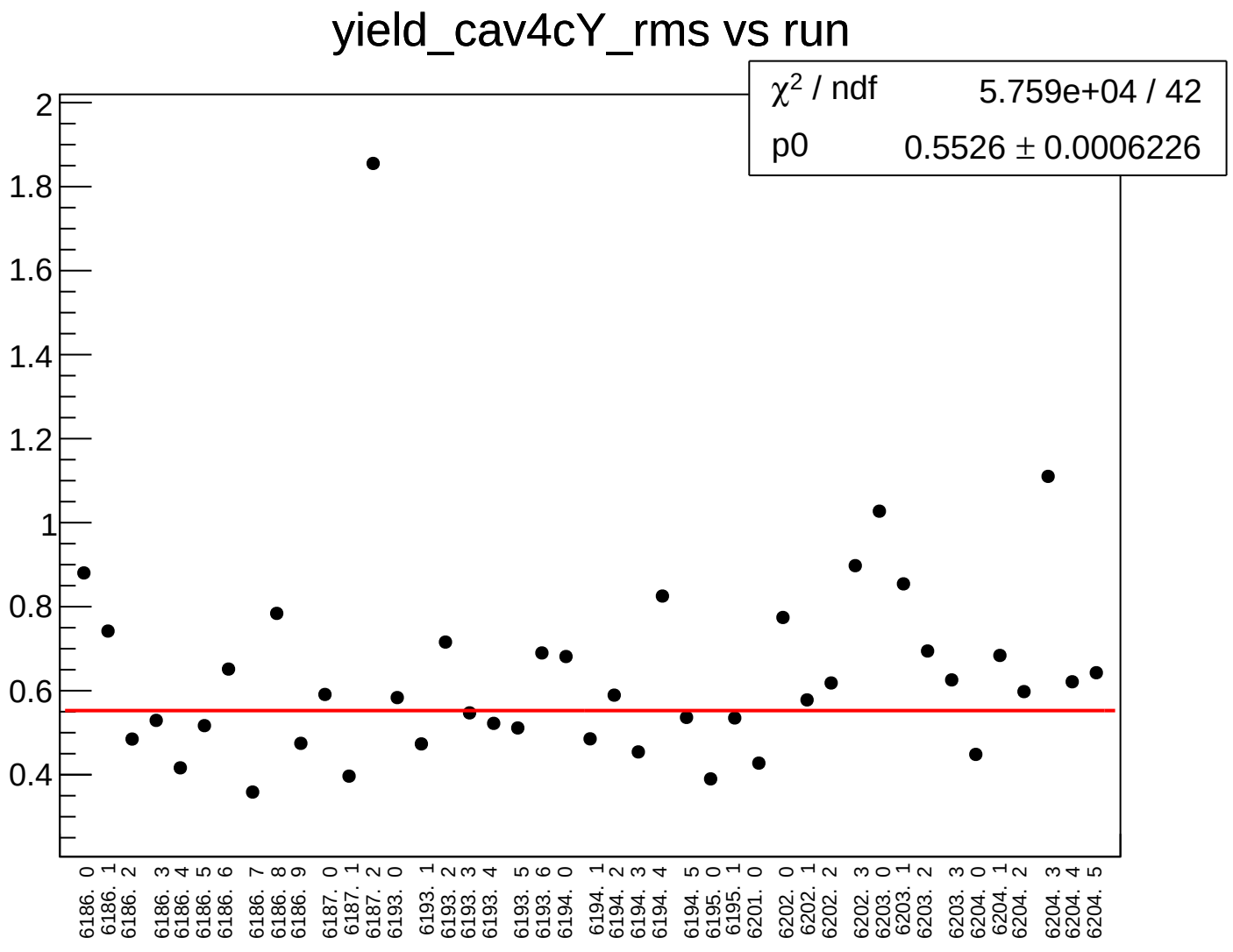

yield_cav4cX_mean vs run
χ² / ndf 1.673e+05 / 42
p0 0.4583 ± 0.001033
pull
Entries 43
Mean 65.69
Std Dev 0

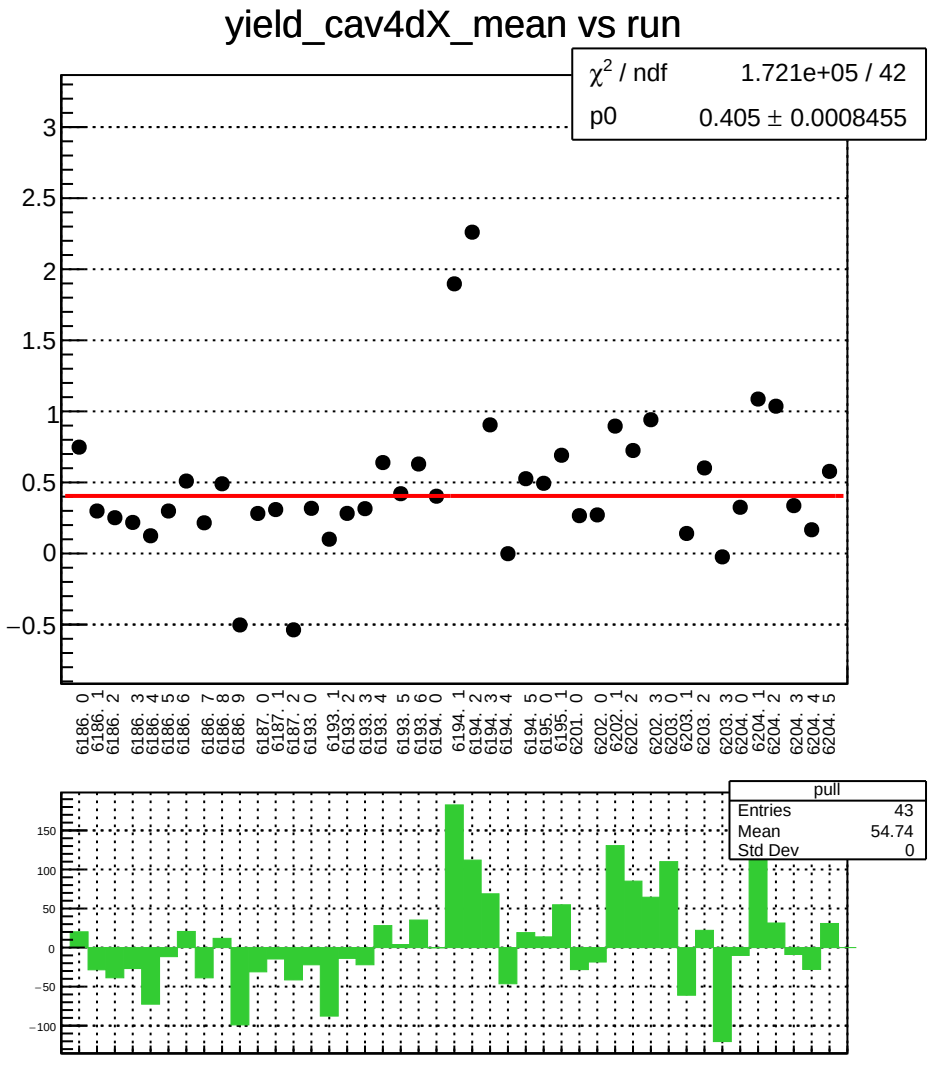

pull1D
Entries 43
Mean 0.7344
Std Dev 0.8364

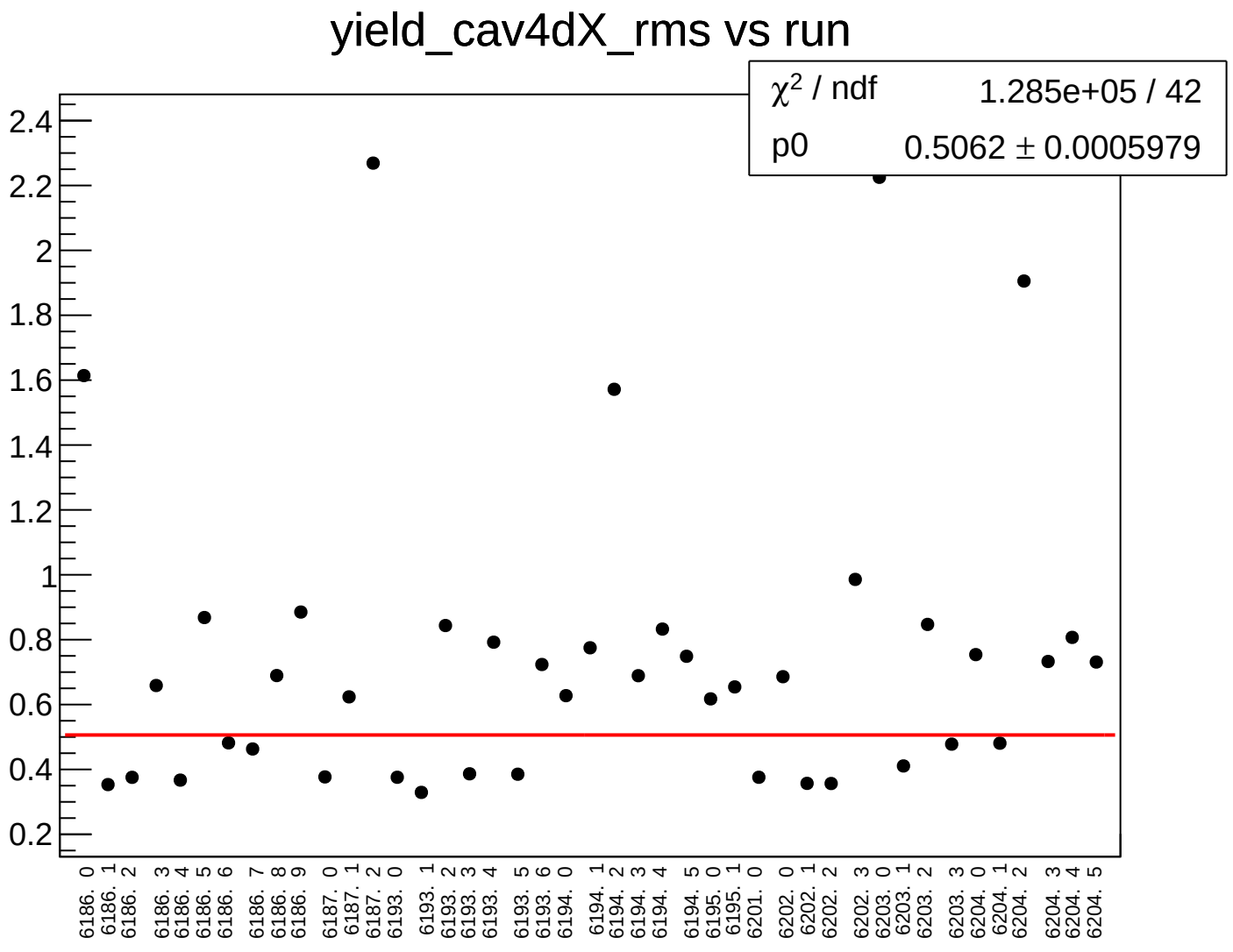

yield_cav4cX_rms vs run
χ² / ndf 1.288e+05 / 42
p0 0.6183 ± 0.0007305
3
2.5
2
1.5
1
0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

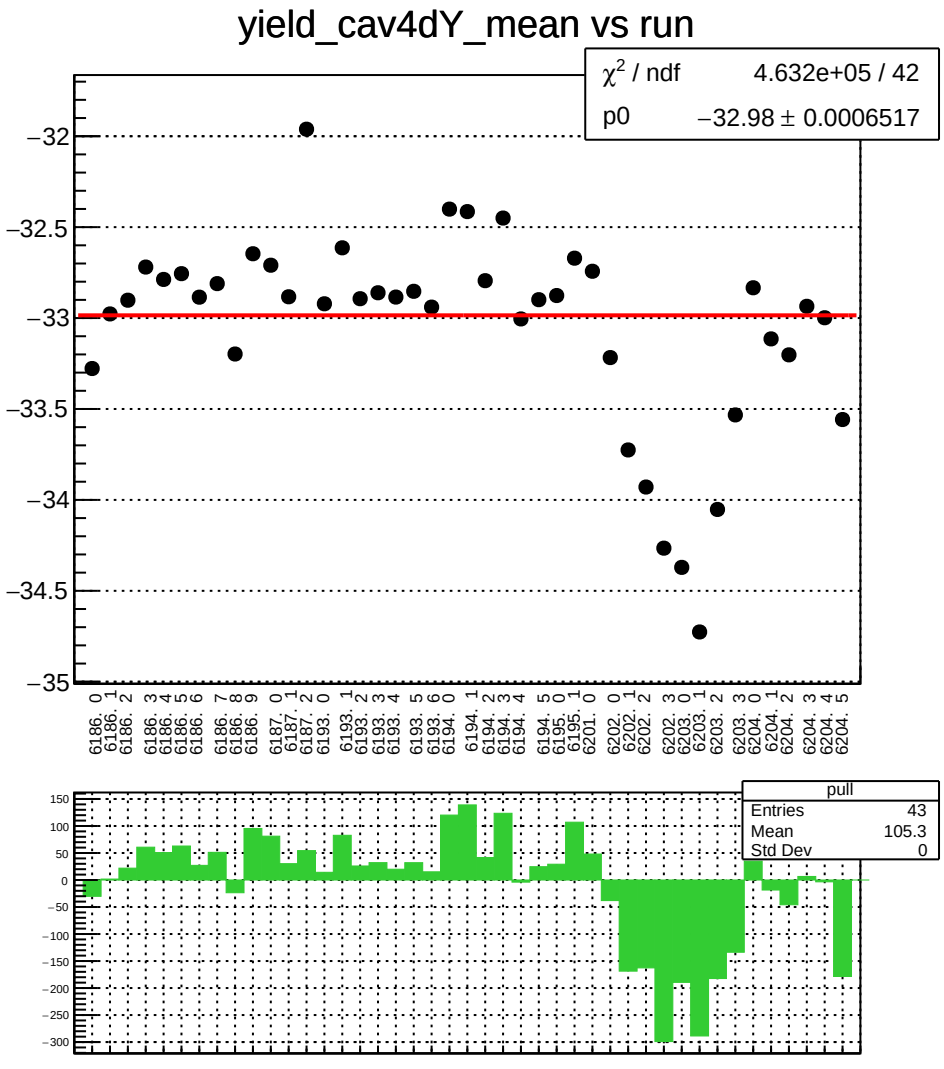

yield_cav4cY_mean vs run
χ² / ndf 3.444e+05 / 42
p0 −42.12 ± 0.0008805
−41.5
−42
−42.5
−43
−43.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 145.9
Std Dev 0
150
100
50
0
−50
−100
−150

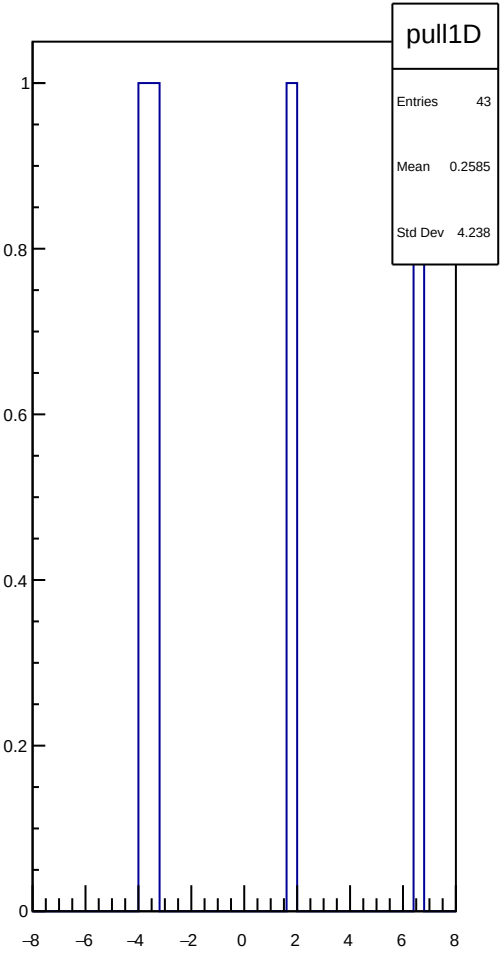

pull1D
Entries 43
Mean 1.476
Std Dev 3.893
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

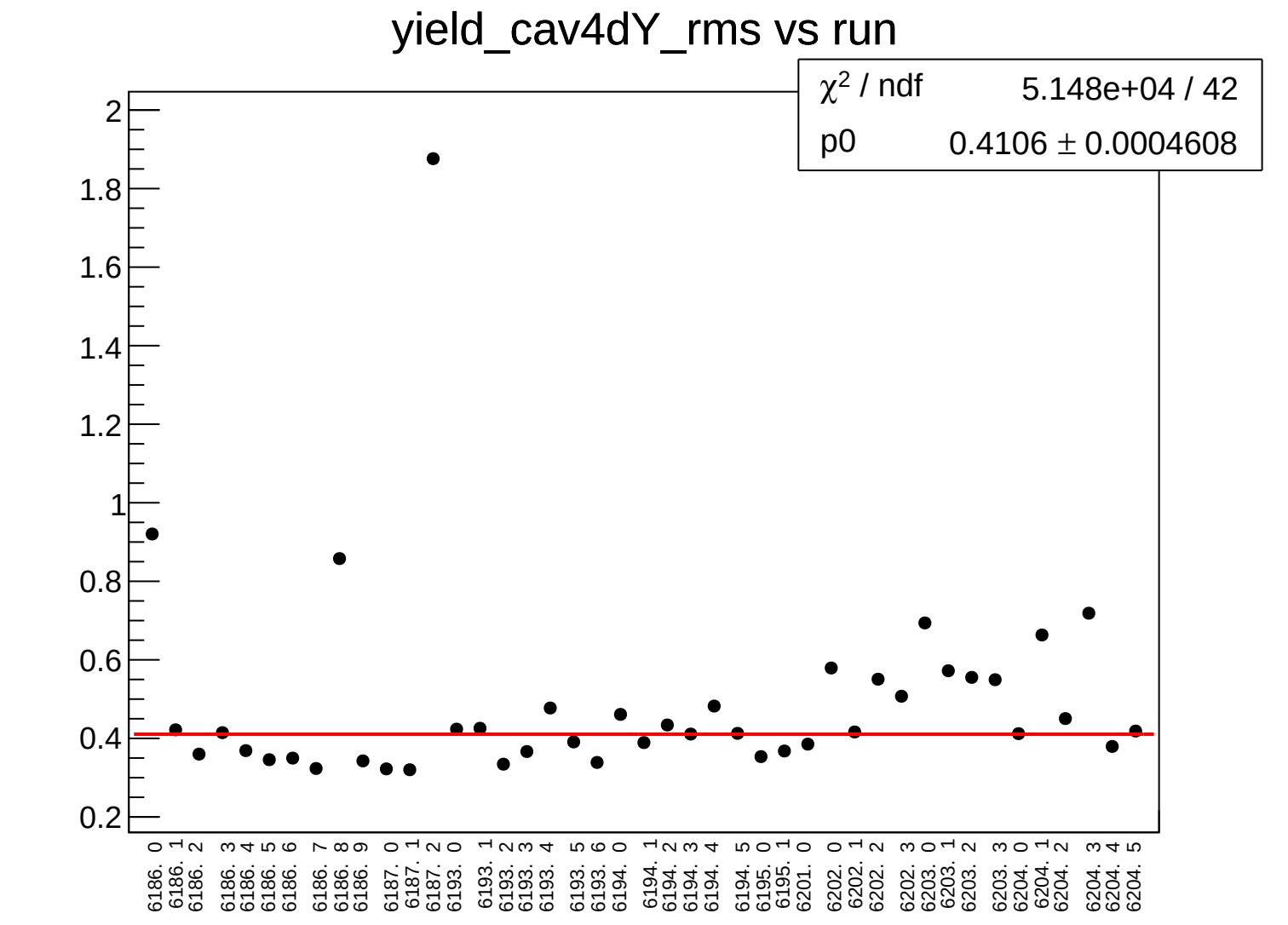

yield_cav4cY_rms vs run
χ² / ndf 5.759e+04 / 42
p0 0.5526 ± 0.0006226
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

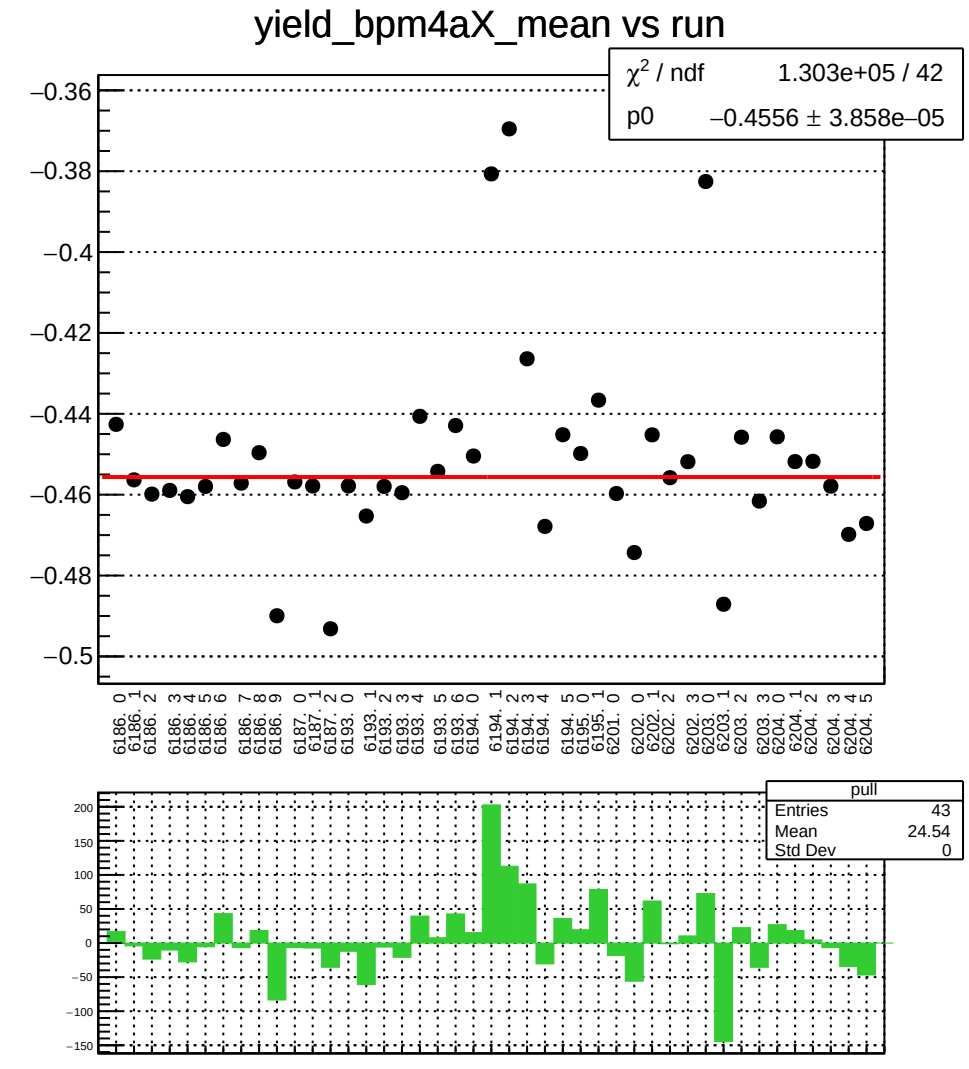

yield_cav4dX_mean vs run
χ² / ndf 1.721e+05 / 42
p0 0.405 ± 0.0008455
3
2.5
2
1.5
1
0.5
0
−0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 54.74
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 43
Mean 1.787
Std Dev 2.083
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

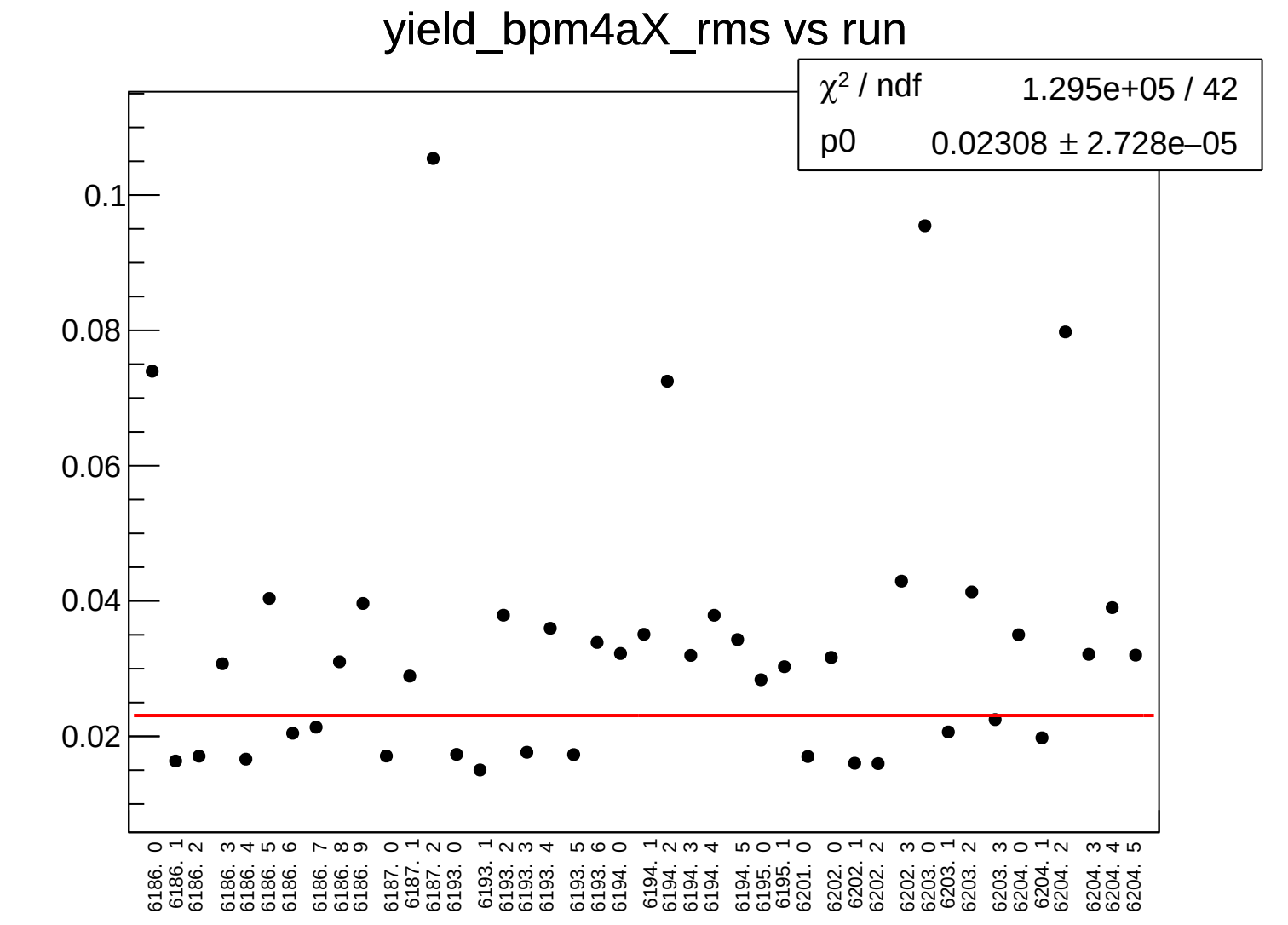

yield_cav4dX_rms vs run
χ² / ndf 1.285e+05 / 42
p0 0.5062 ± 0.0005979
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

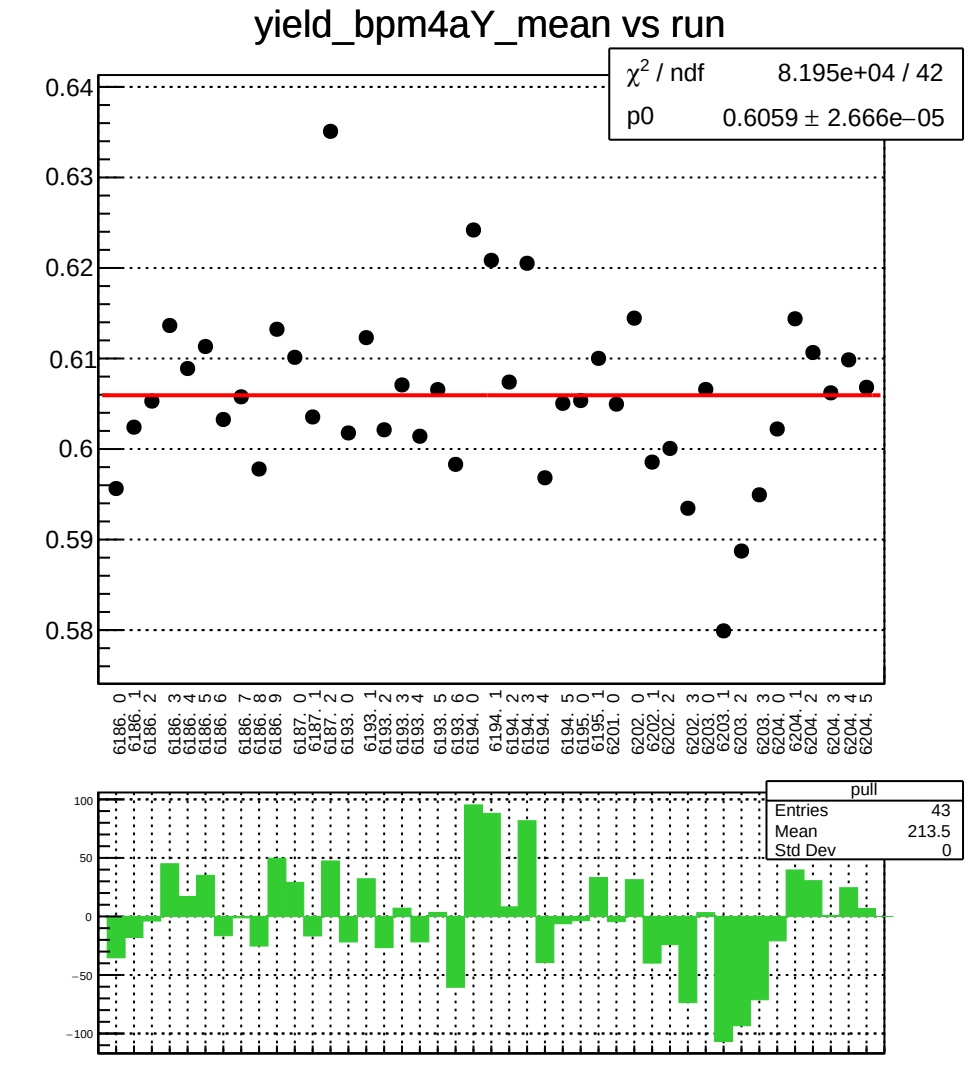

yield_cav4dY_mean vs run
χ² / ndf 4.632e+05 / 42
p0 −32.98 ± 0.0006517
−32
−32.5
−33
−33.5
−34
−34.5
−35
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 105.3
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250
−300

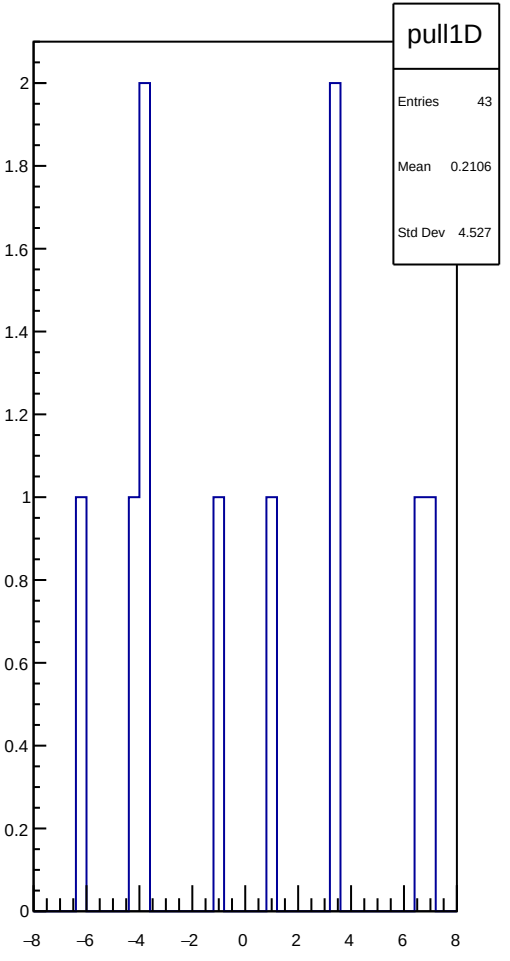

pull1D
Entries 43
Mean 0.2585
Std Dev 4.238
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

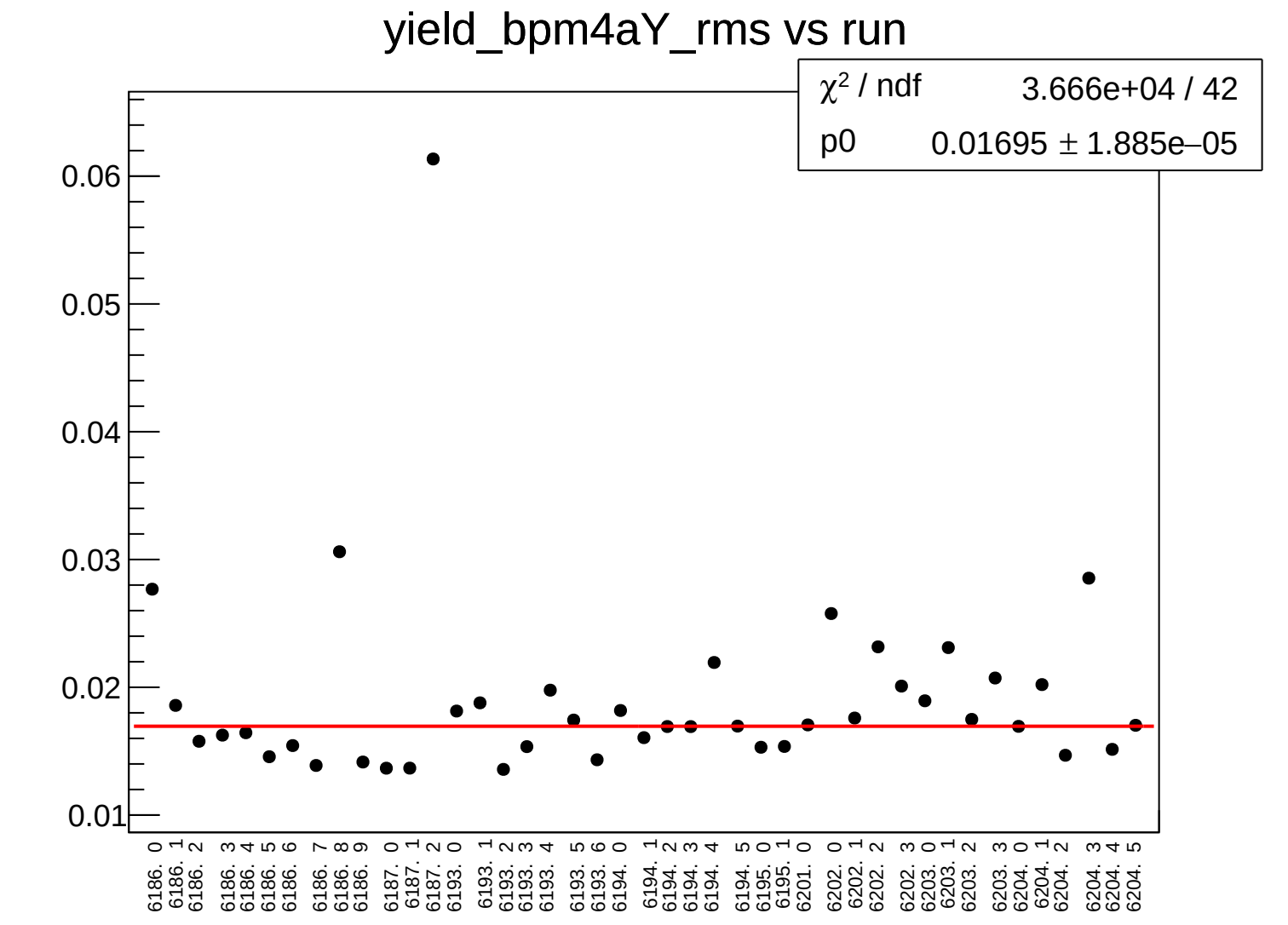

yield_cav4dY_rms vs run
χ² / ndf 5.148e+04 / 42
p0 0.4106 ± 0.0004608
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

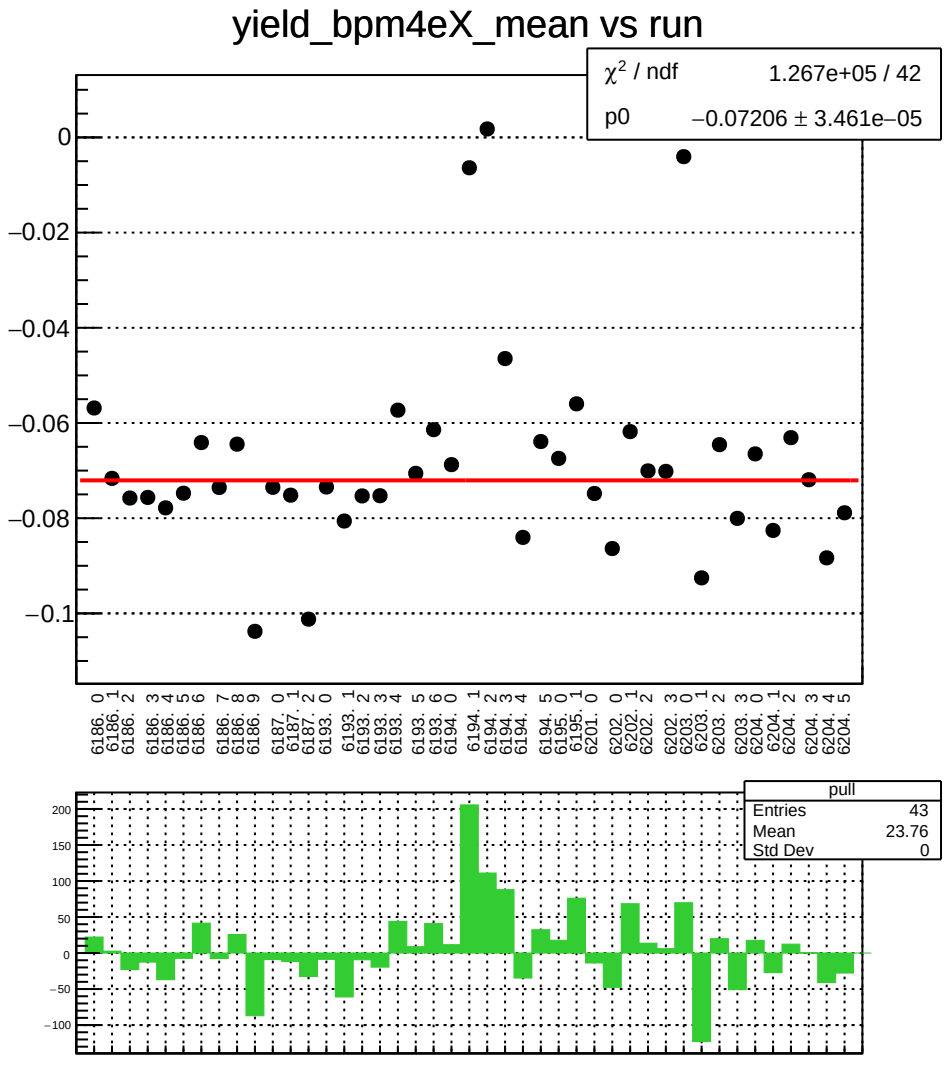

yield_bpm4aX_mean vs run
χ² / ndf 1.303e+05 / 42
p0 −0.4556 ± 3.858e−05
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 24.54
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 43
Mean −3.147
Std Dev 5.006
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

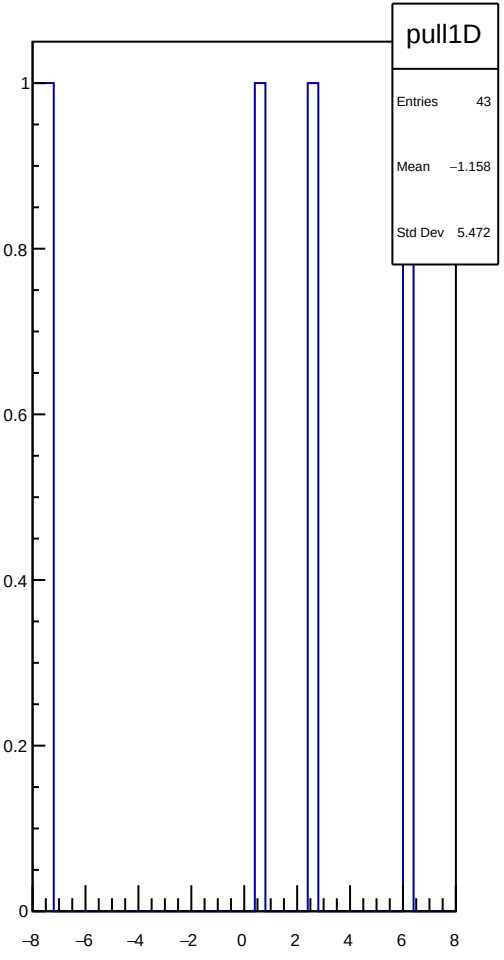

yield_bpm4aX_rms vs run
χ² / ndf 1.295e+05 / 42
p0 0.02308 ± 2.728e–05
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

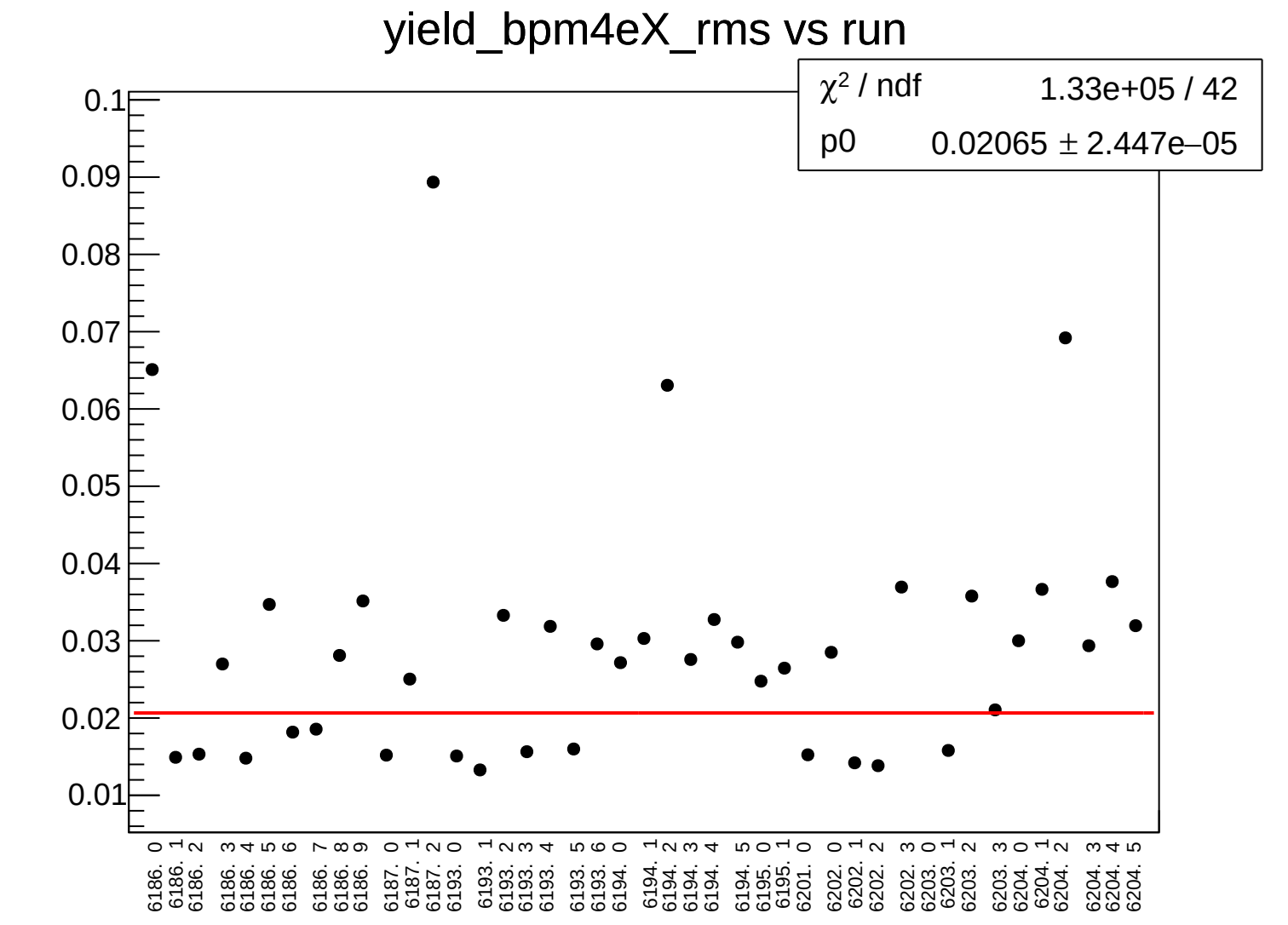

yield_bpm4aY_mean vs run
χ² / ndf 8.195e+04 / 42
p0 0.6059 ± 2.666e−05
0.64
0.63
0.62
0.61
0.6
0.59
0.58
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 213.5
Std Dev 0
100
50
0
−50
−100

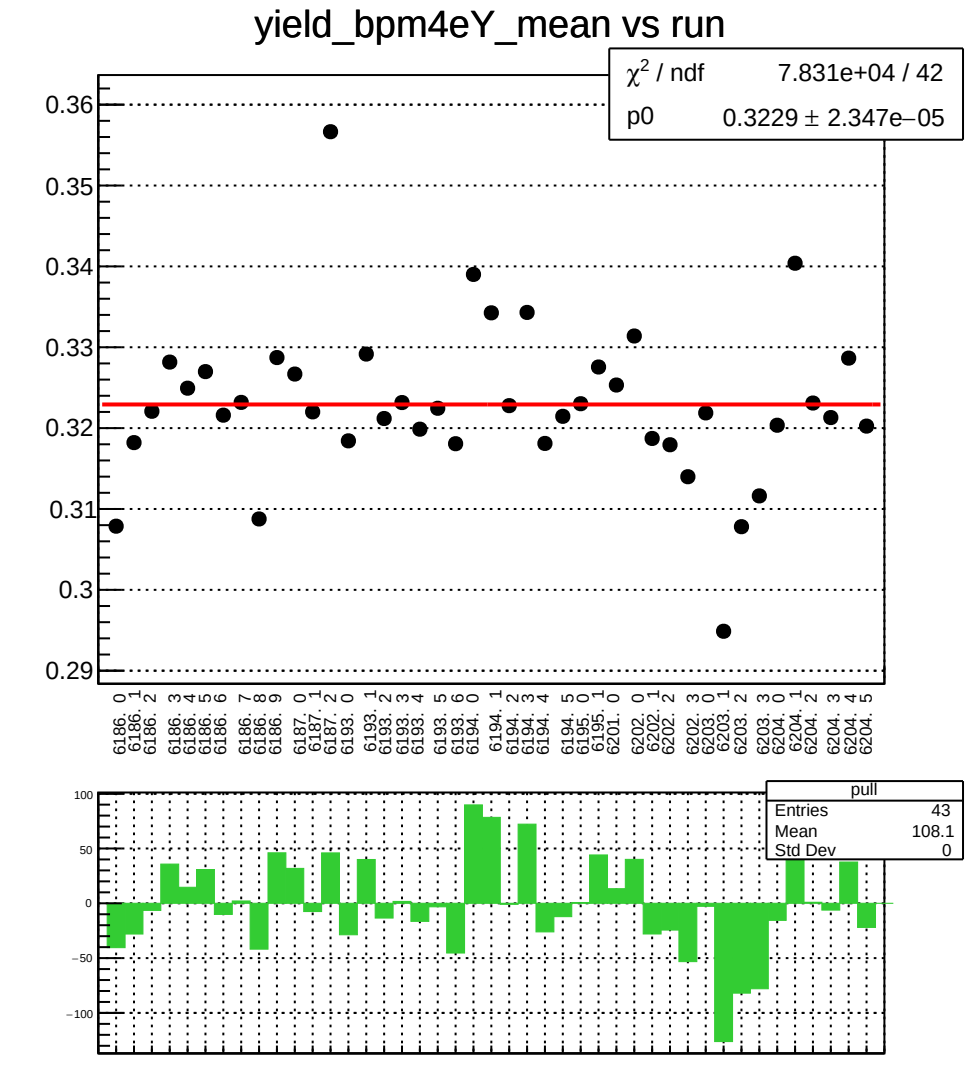

pull1D
Entries 43
Mean 0.2106
Std Dev 4.527
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

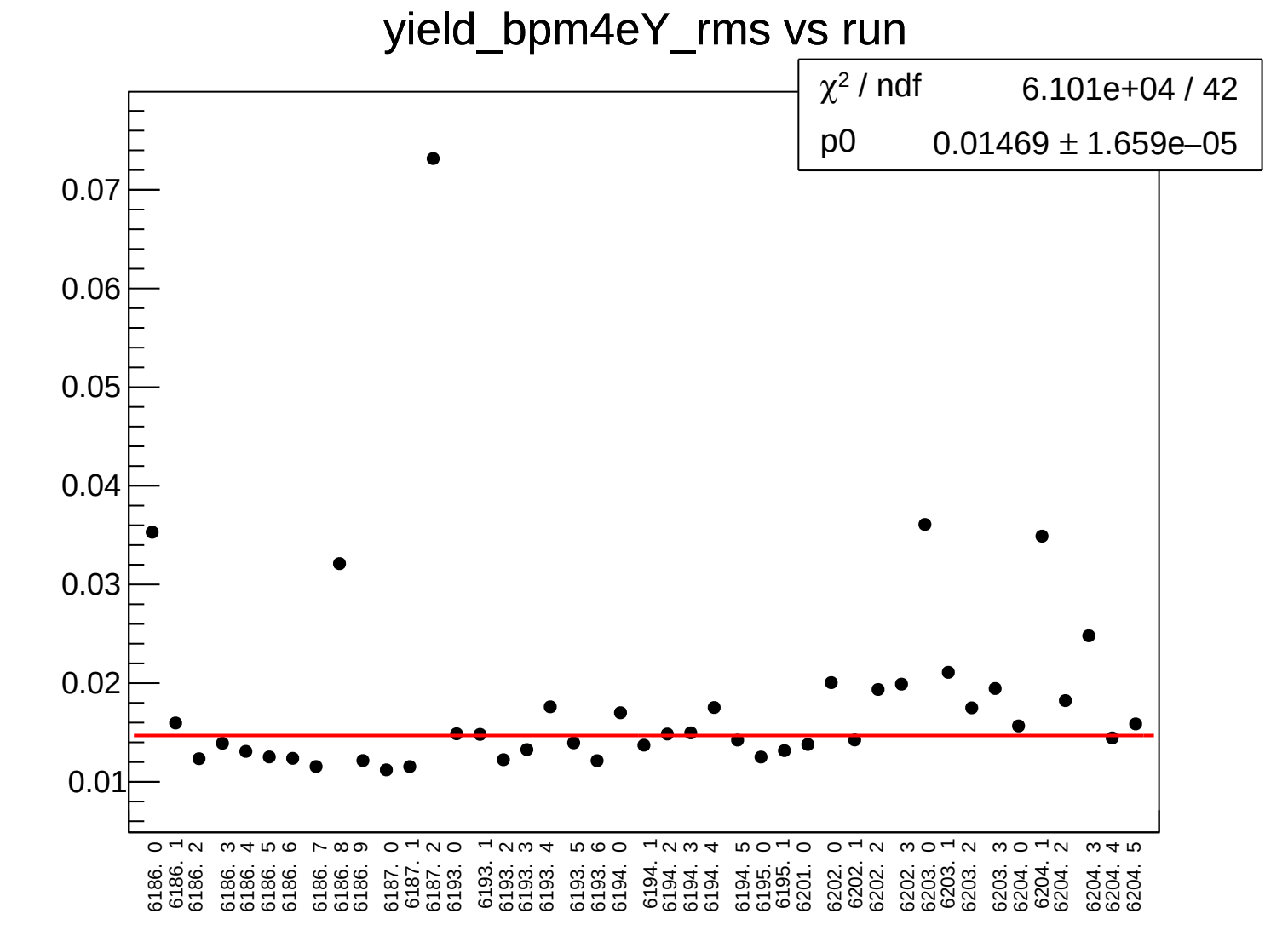

yield_bpm4aY_rms vs run
χ² / ndf 3.666e+04 / 42
p0 0.01695 ± 1.885e–05
0.06
0.05
0.04
0.03
0.02
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

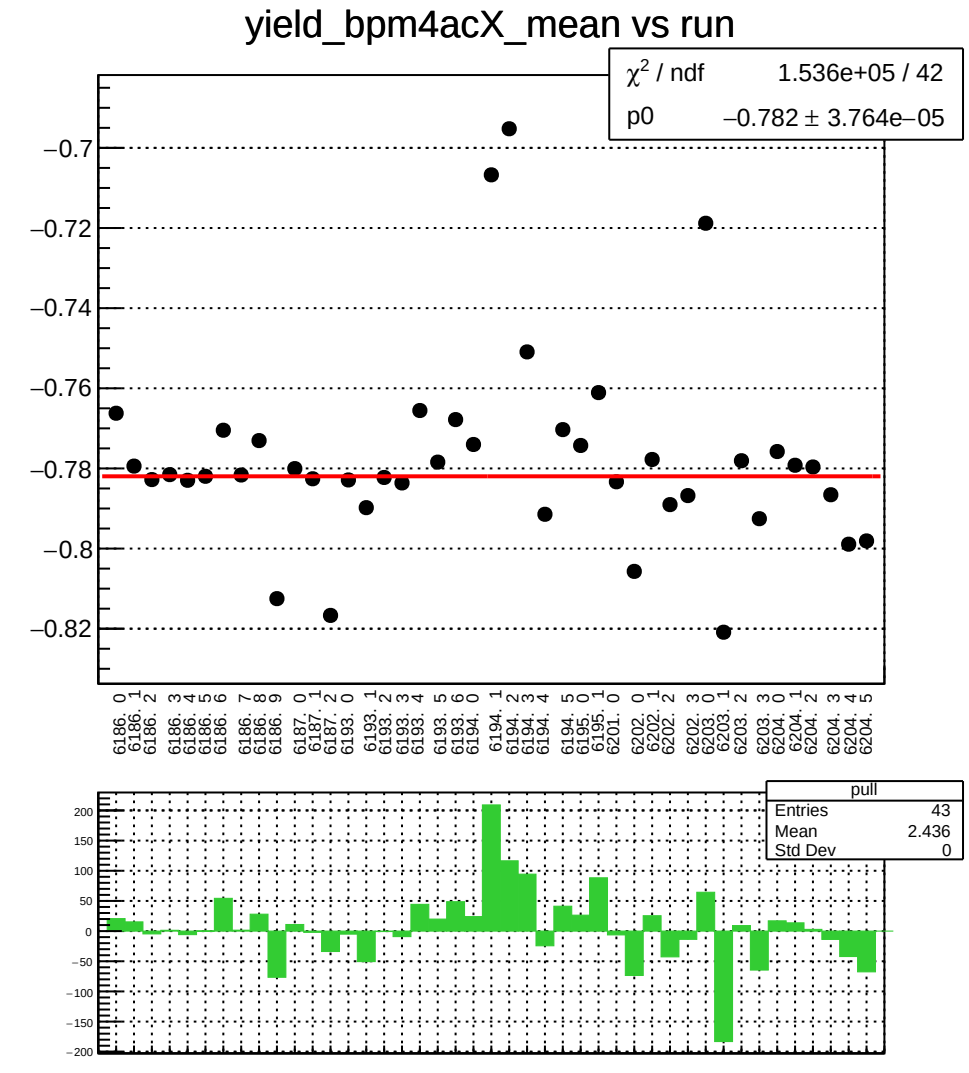

yield_bpm4eX_mean vs run
χ² / ndf 1.267e+05 / 42
p0 −0.07206 ± 3.461e−05
0
−0.02
−0.04
−0.06
−0.08
−0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 23.76
Std Dev 0
200
150
100
50
0
−50
−100

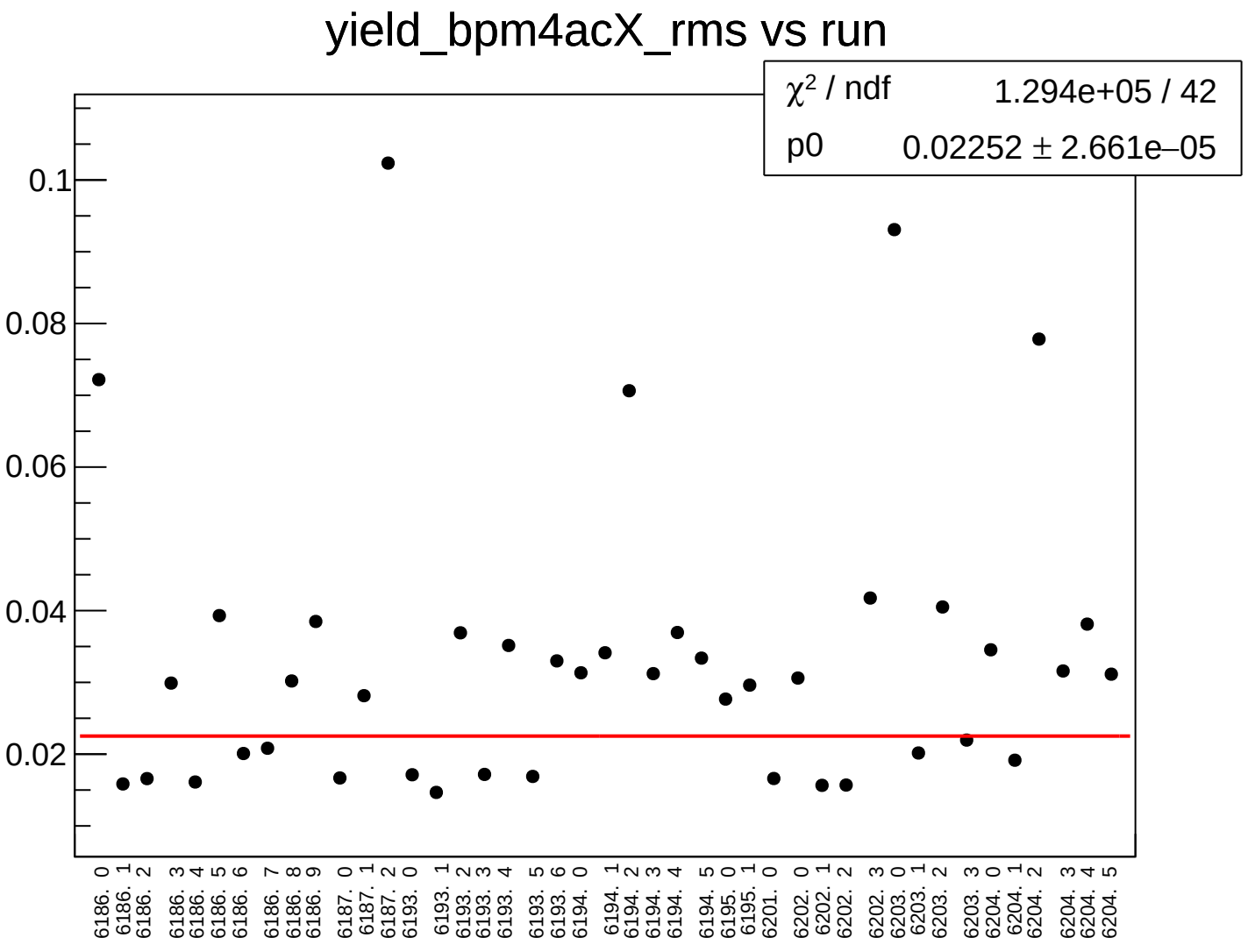

pull1D
Entries 43
Mean −1.158
Std Dev 5.472
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

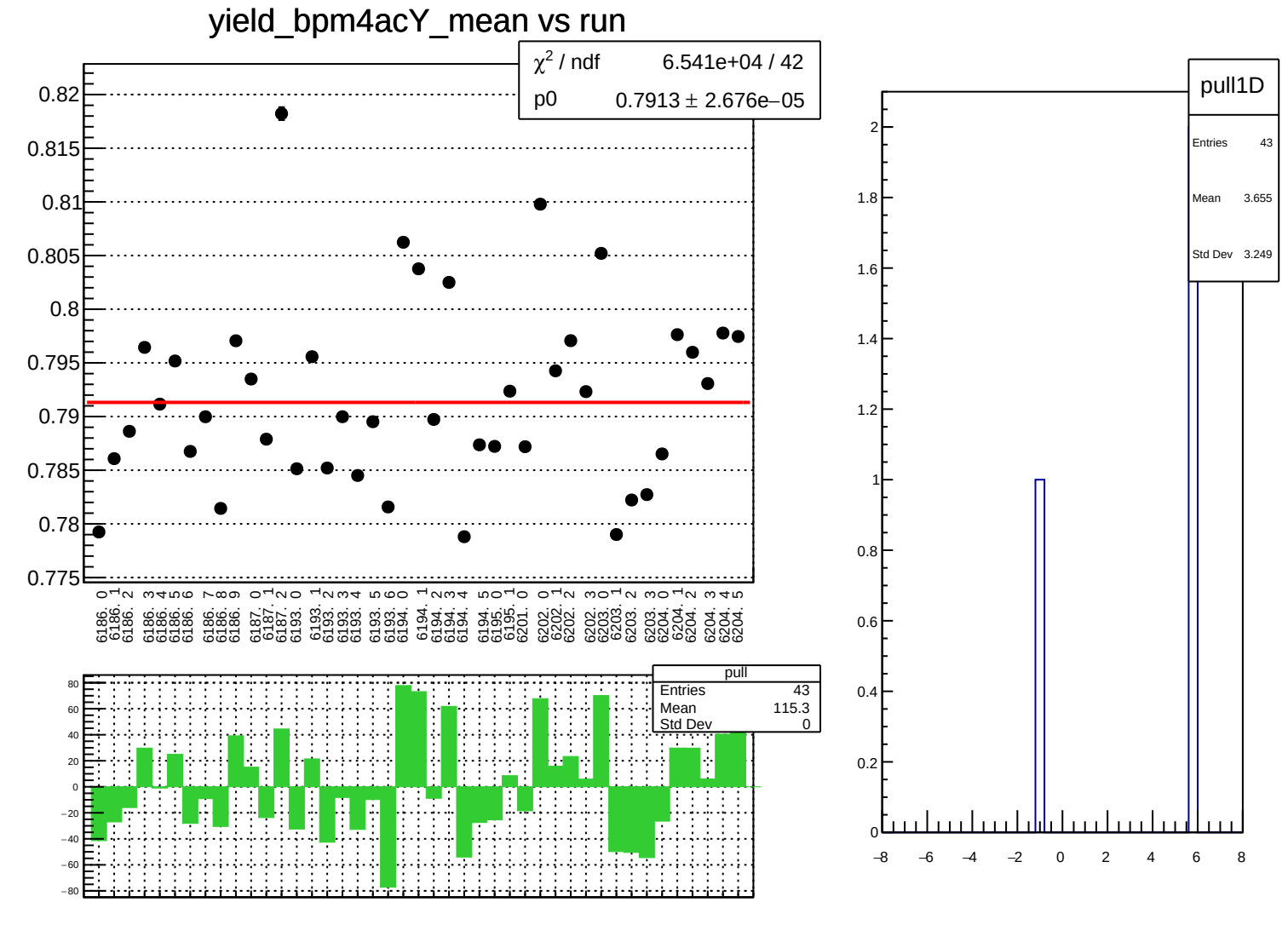

yield_bpm4eX_rms vs run
χ² / ndf 1.33e+05 / 42
p0 0.02065 ± 2.447e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

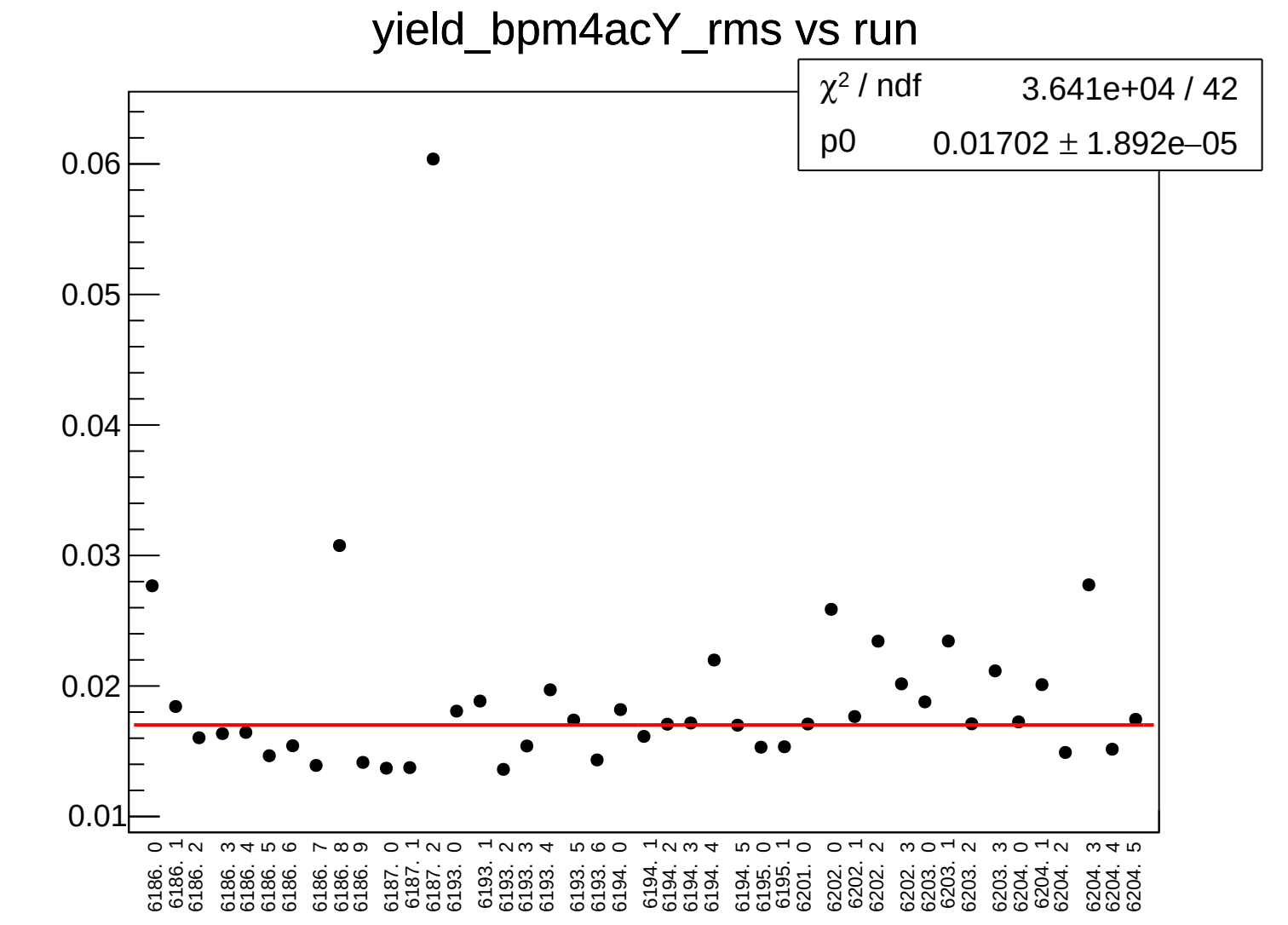

yield_bpm4eY_mean vs run
χ² / ndf 7.831e+04 / 42
p0 0.3229 ± 2.347e−05
0.36
0.35
0.34
0.33
0.32
0.31
0.3
0.29
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 108.1
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 43
Mean −2.159
Std Dev 3.424
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

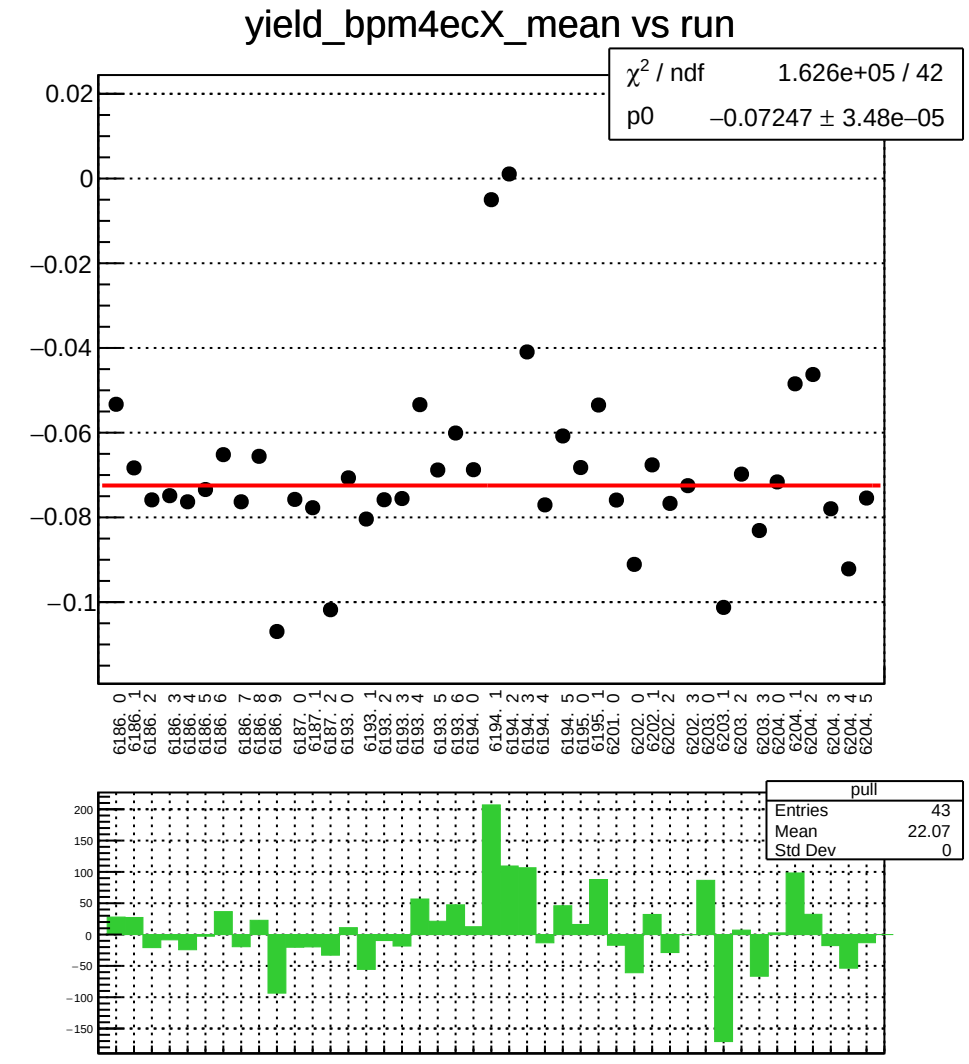

yield_bpm4eY_rms vs run
χ² / ndf 6.101e+04 / 42
p0 0.01469 ± 1.659e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

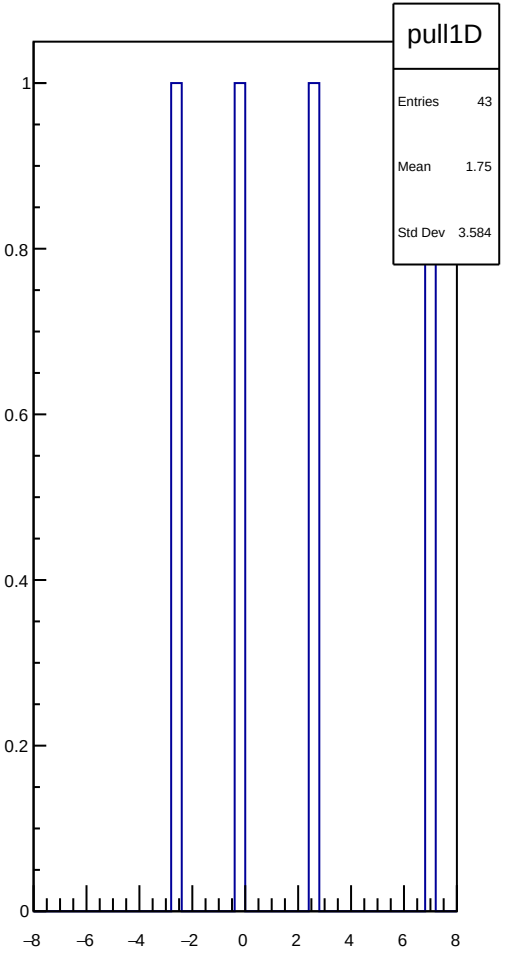

yield_bpm4acX_mean vs run
χ² / ndf 1.536e+05 / 42
p0 −0.782 ± 3.764e−05
−0.7
−0.72
−0.74
−0.76
−0.78
−0.8
−0.82
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2.436
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 43
Mean −1.894
Std Dev 3.188
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

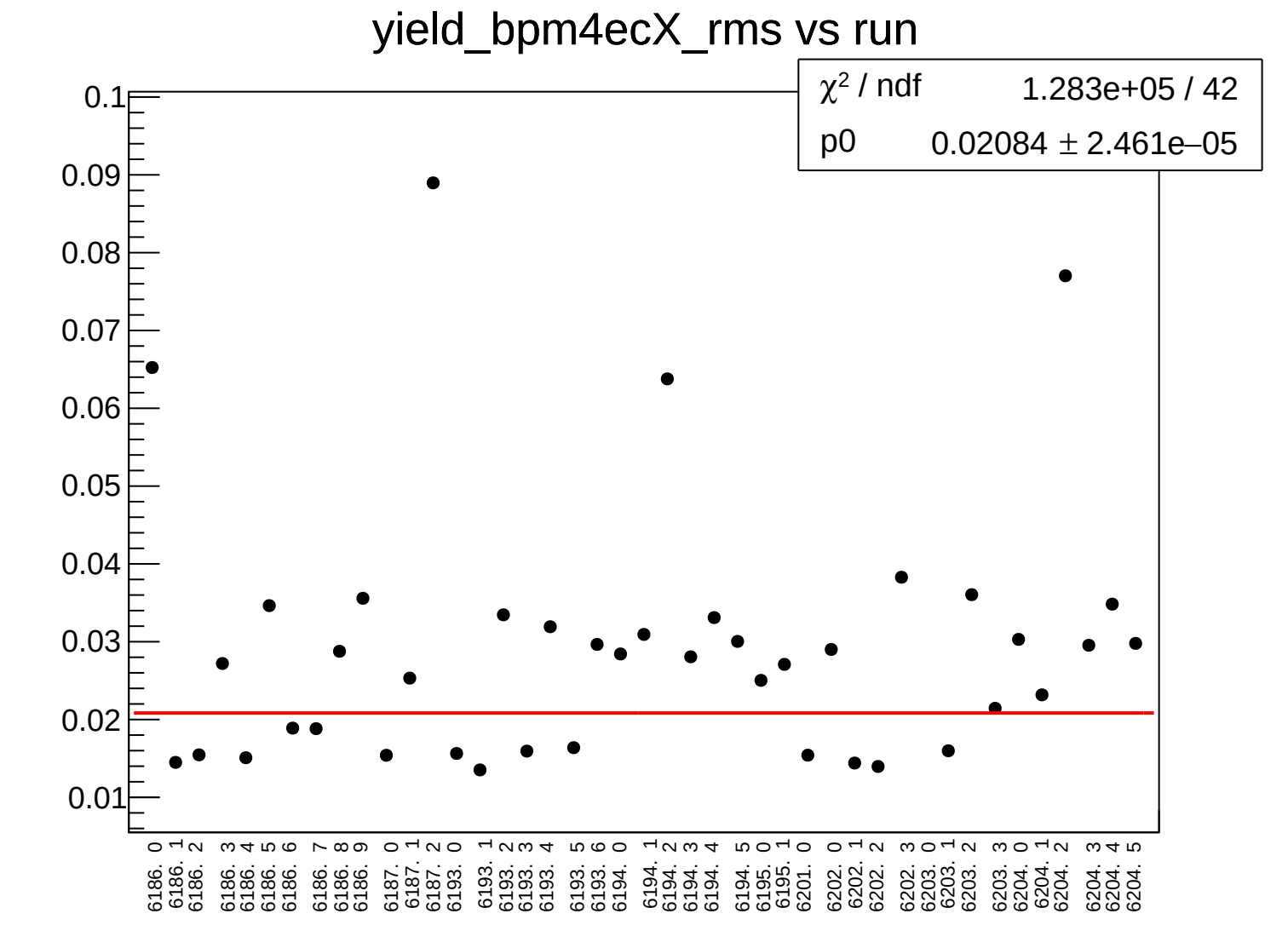

yield_bpm4acX_rms vs run
χ² / ndf 1.294e+05 / 42
p0 0.02252 ± 2.661e–05
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

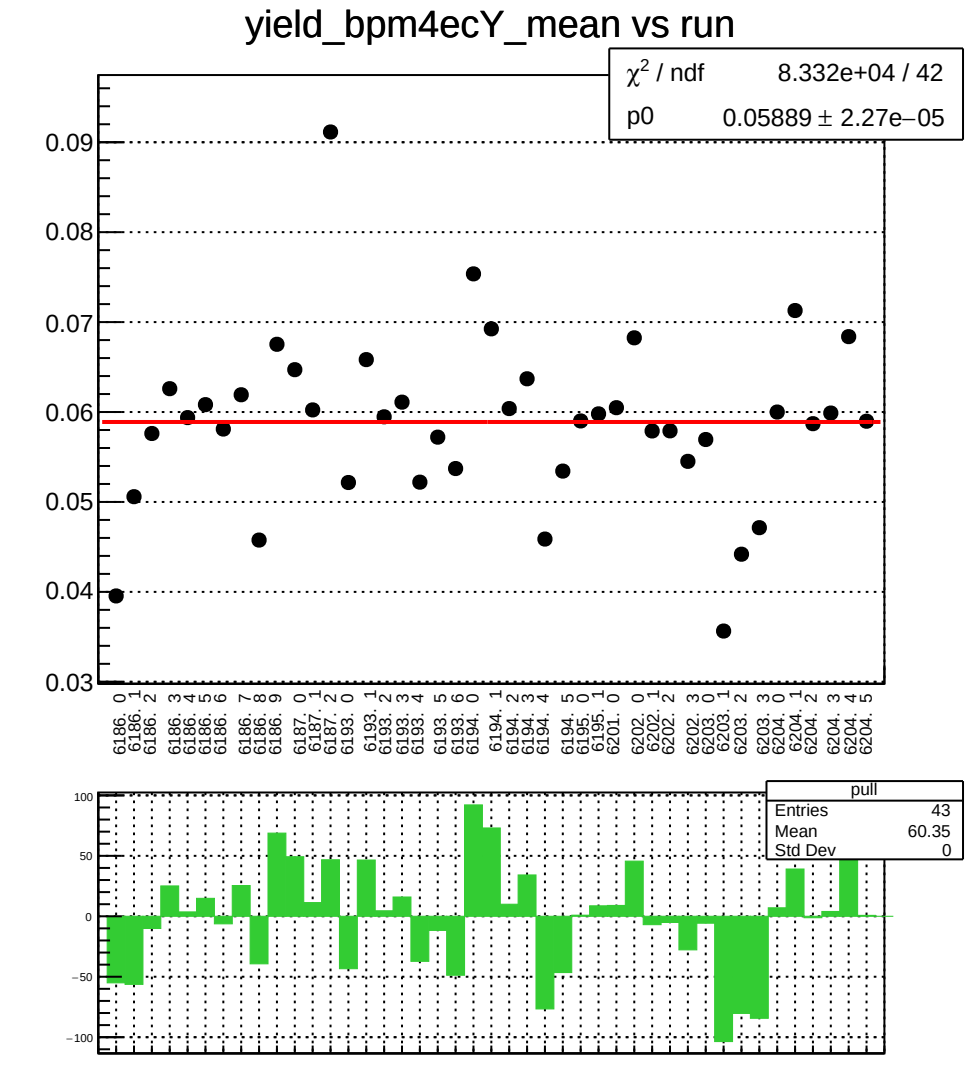

yield_bpm4acY_mean vs run
χ² / ndf 6.541e+04 / 42
p0 0.7913 ± 2.676e−05
pull
Entries 43
Mean 115.3
Std Dev 0
pull1D
Entries 43
Mean 3.655
Std Dev 3.249

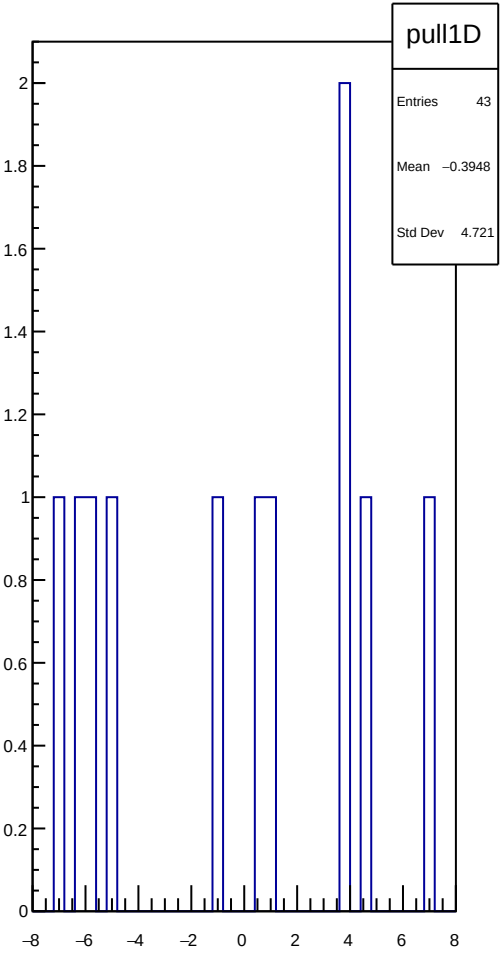

yield_bpm4acY_rms vs run
χ² / ndf 3.641e+04 / 42
p0 0.01702 ± 1.892e–05
0.06
0.05
0.04
0.03
0.02
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

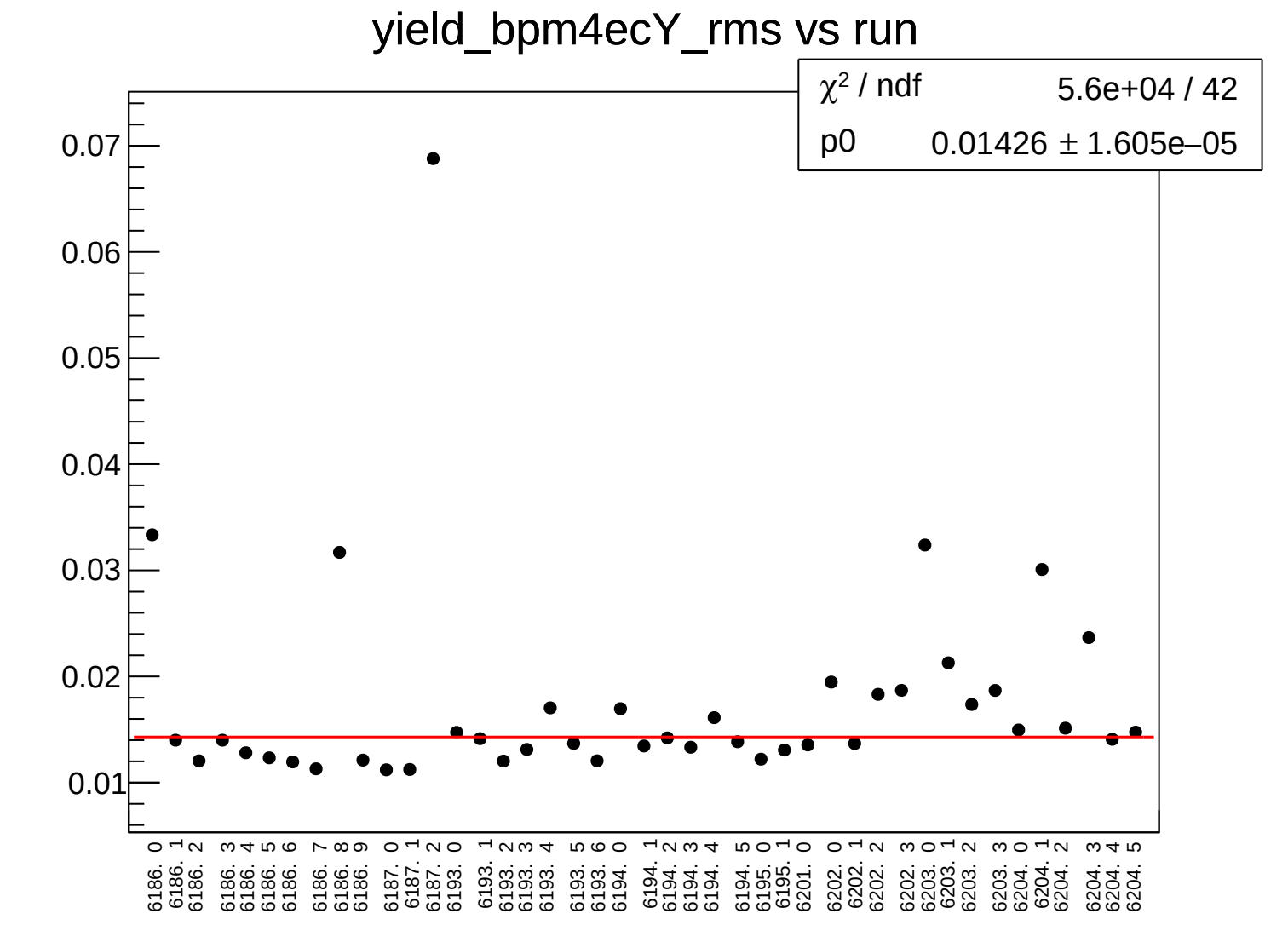

yield_bpm4ecX_mean vs run
χ² / ndf 1.626e+05 / 42
p0 −0.07247 ± 3.48e−05
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 22.07
Std Dev 0
200
150
100
50
0
−50
−100
−150

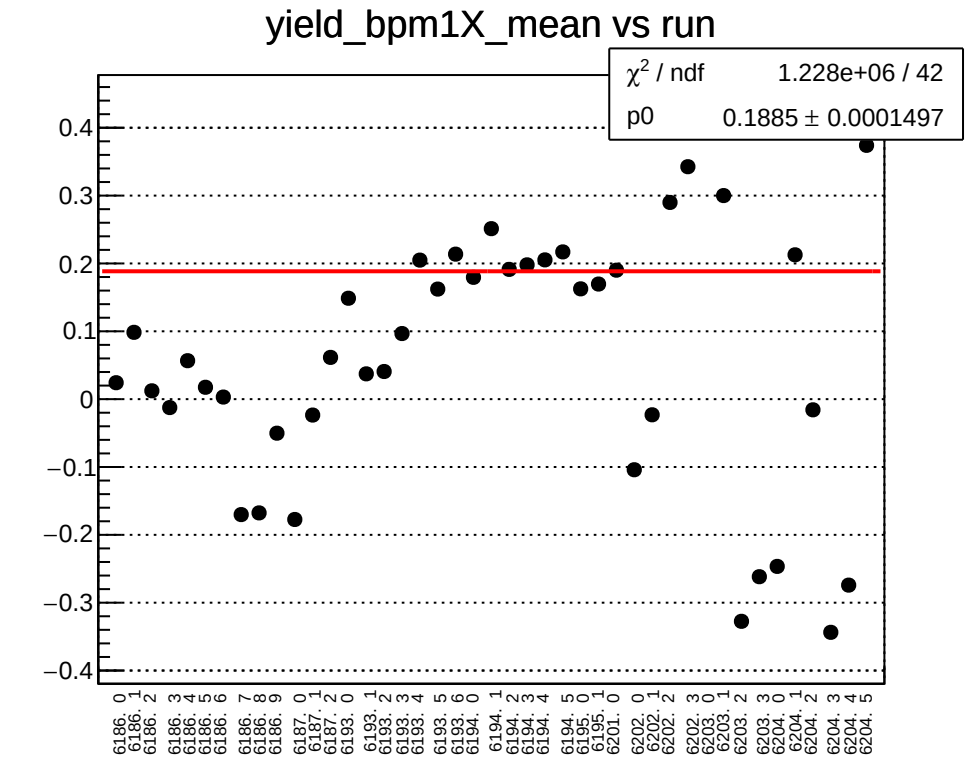

pull1D
Entries 43
Mean 1.75
Std Dev 3.584
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

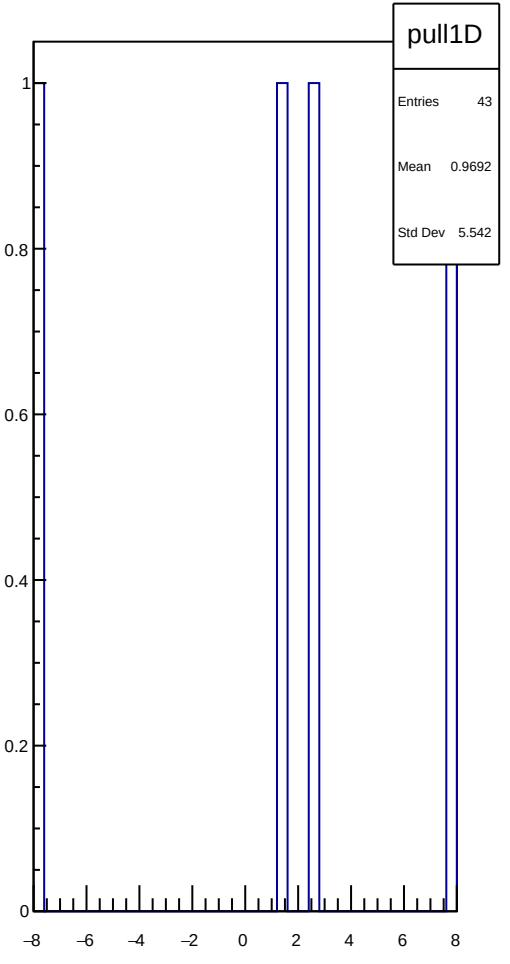

yield_bpm4ecX_rms vs run
χ² / ndf 1.283e+05 / 42
p0 0.02084 ± 2.461e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

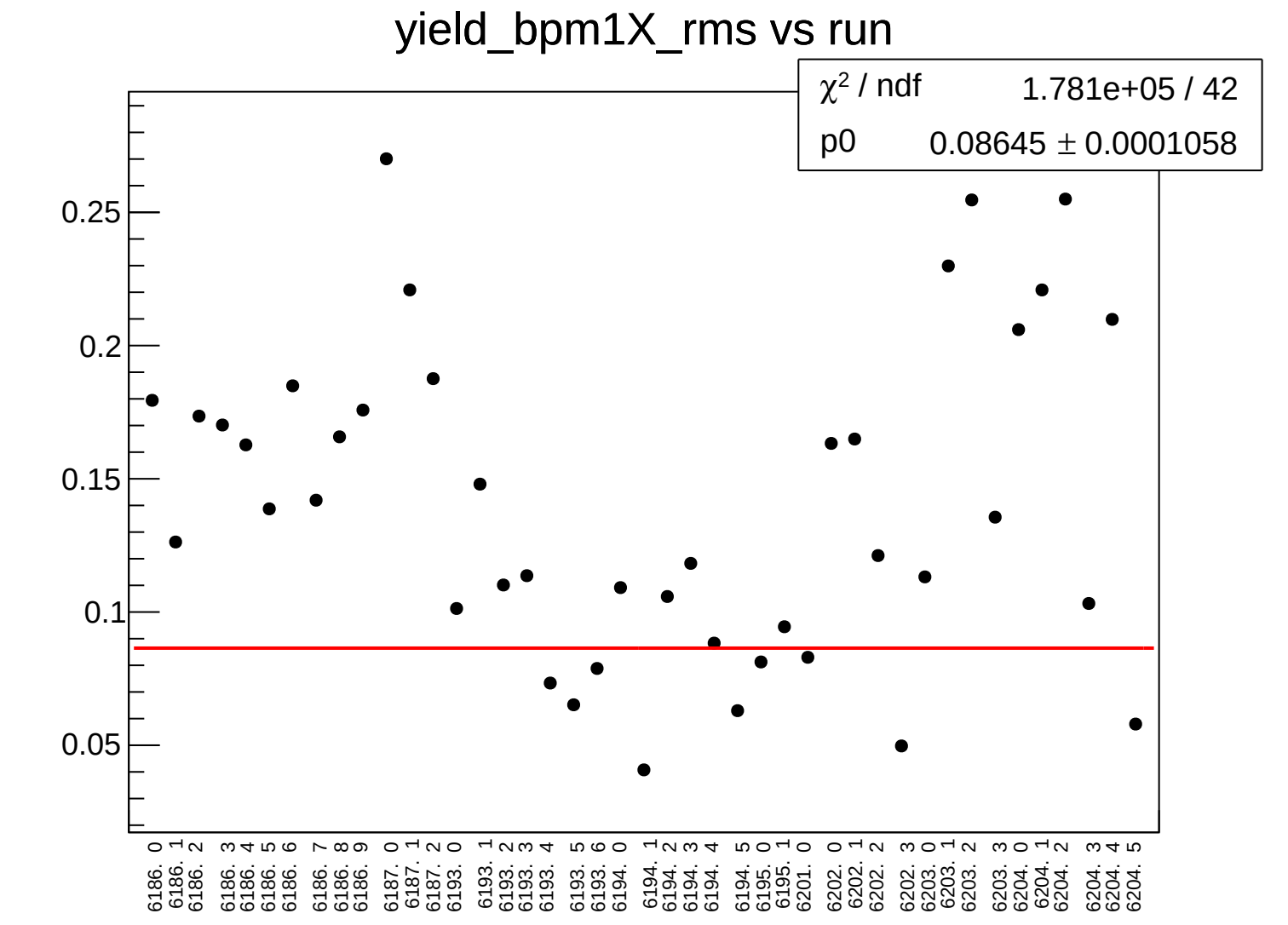

yield_bpm4ecY_mean vs run
χ² / ndf 8.332e+04 / 42
p0 0.05889 ± 2.27e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 60.35
Std Dev 0
100
50
0
−50
−100

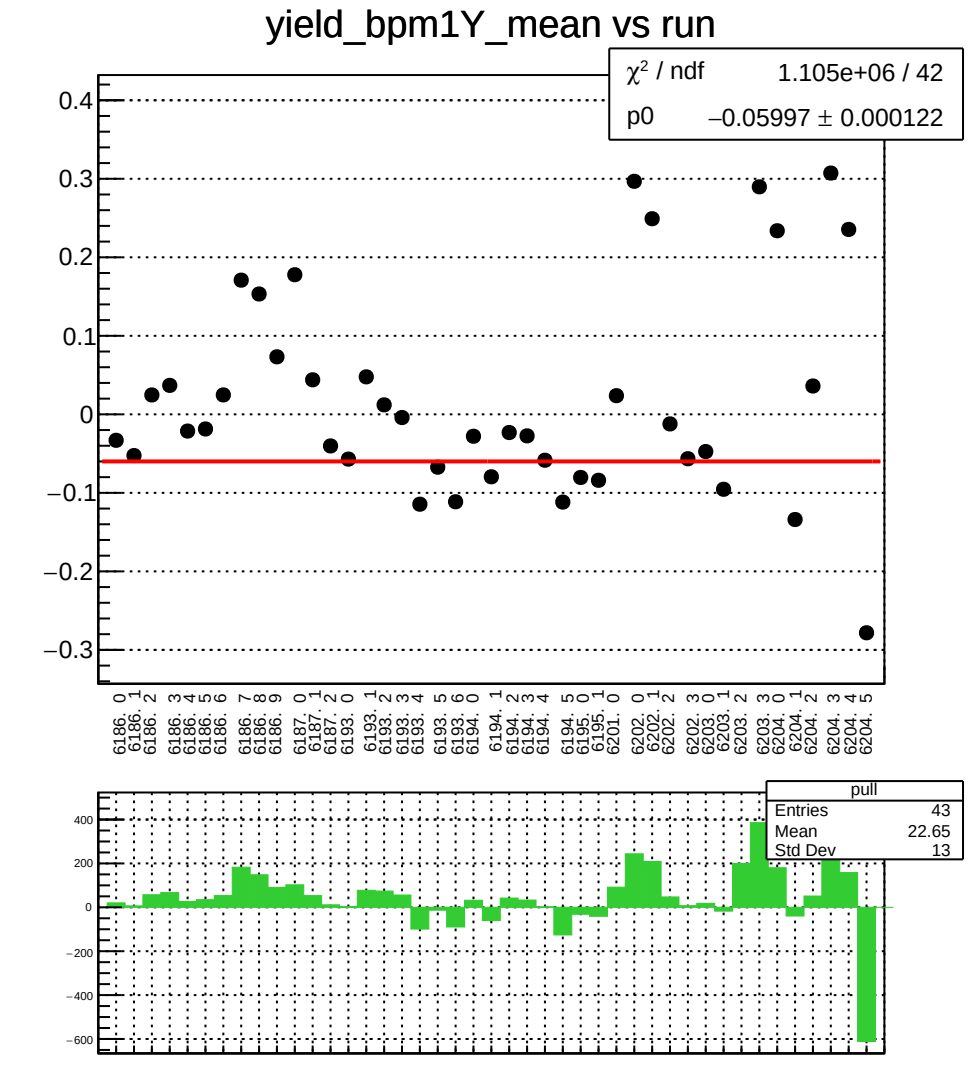

pull1D
Entries 43
Mean −0.3948
Std Dev 4.721
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

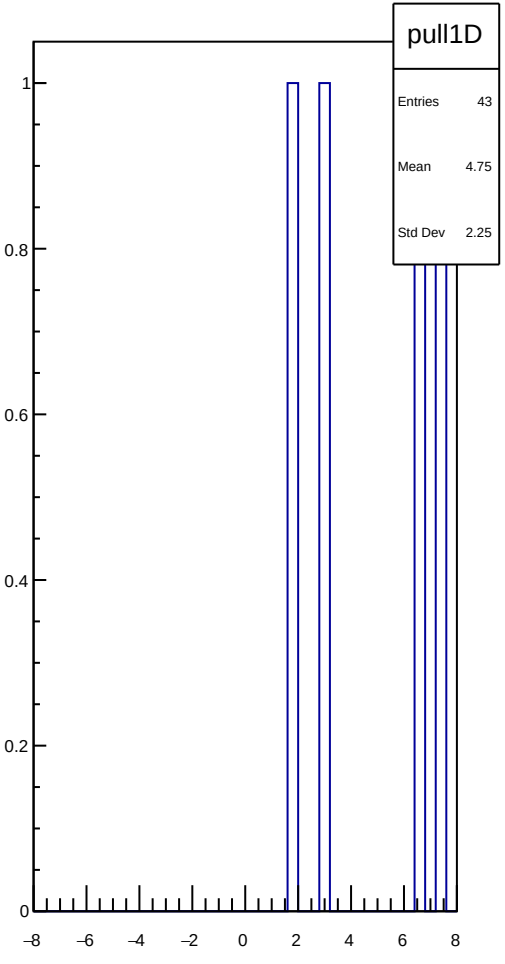

yield_bpm4ecY_rms vs run
χ² / ndf 5.6e+04 / 42
p0 0.01426 ± 1.605e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

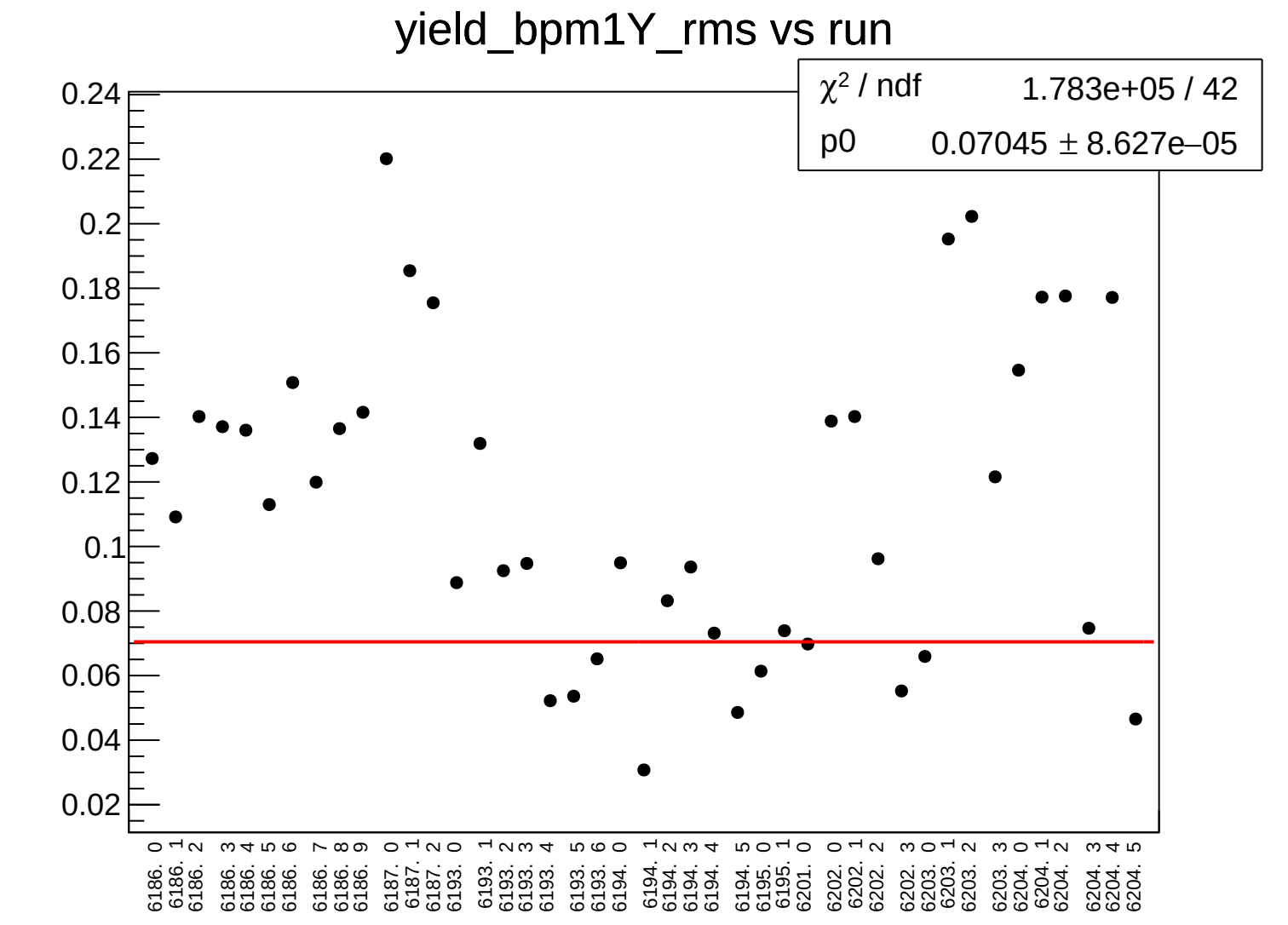

yield_bpm1X_mean vs run
χ² / ndf 1.228e+06 / 42
p0 0.1885 ± 0.0001497
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 17.1
Std Dev 14.62
400
300
200
100
0
−100
−200
−300
−400
−500

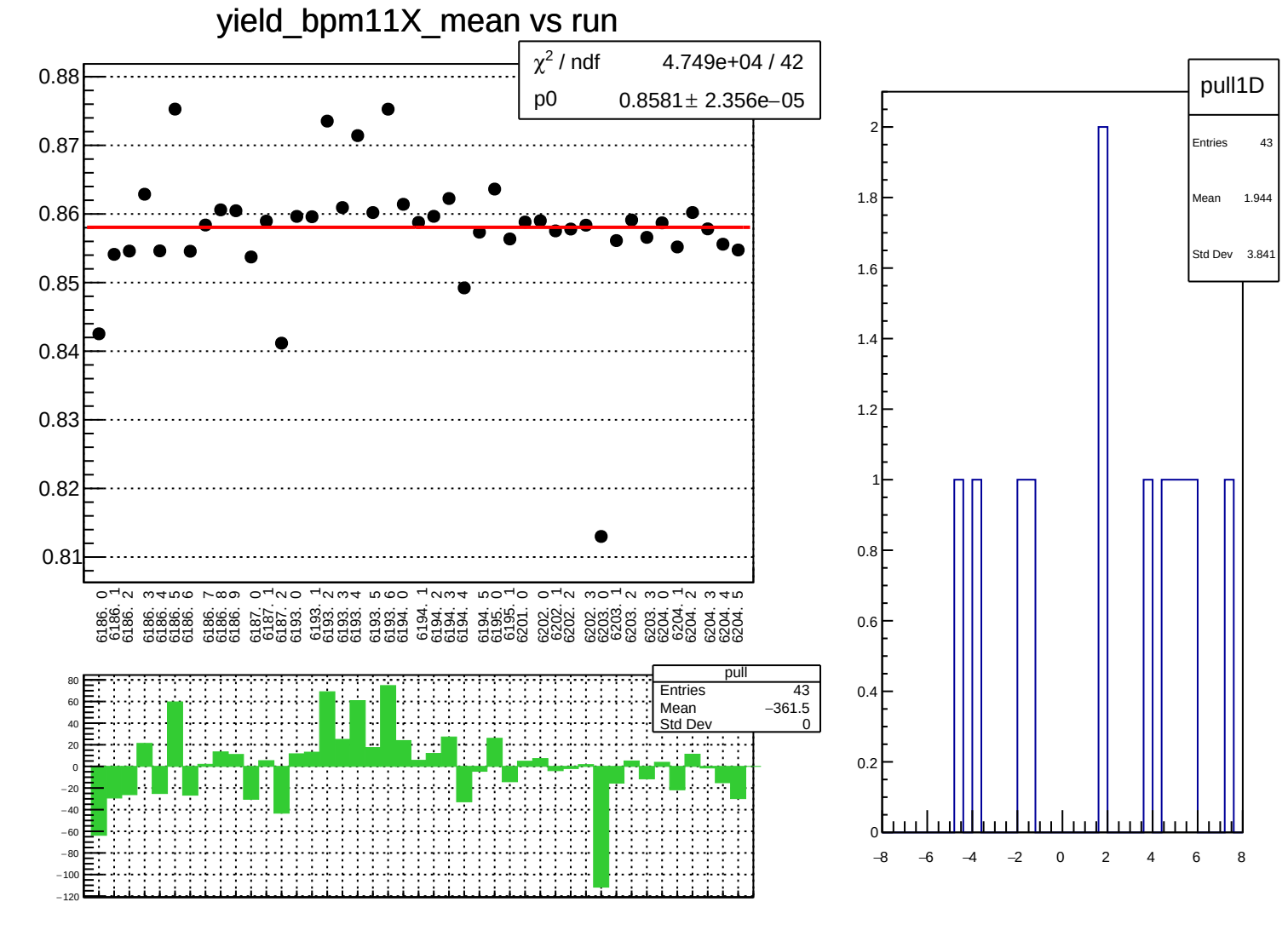

pull1D
Entries 43
Mean 0.9692
Std Dev 5.542
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

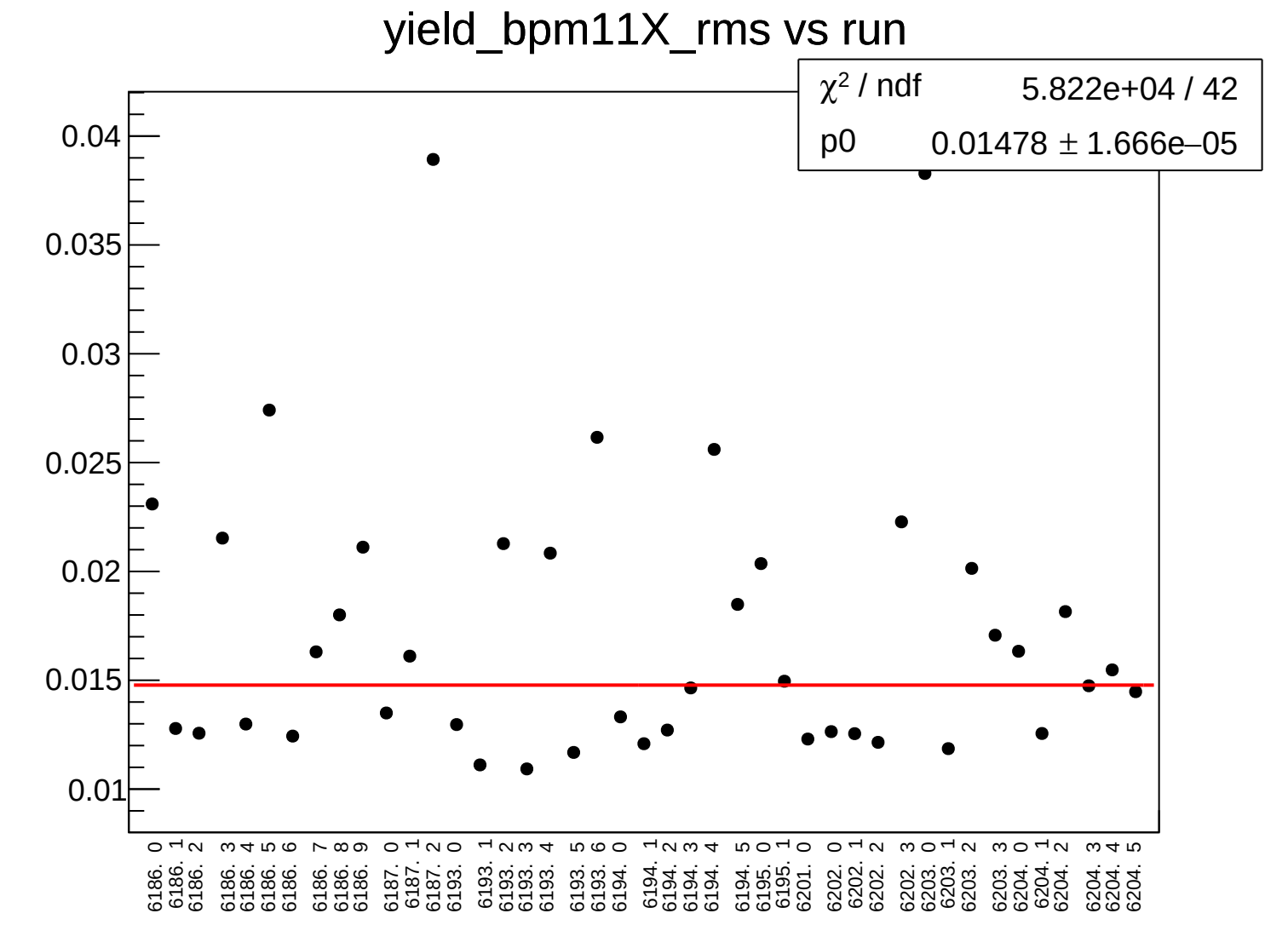

yield_bpm1X_rms vs run
χ² / ndf 1.781e+05 / 42
p0 0.08645 ± 0.0001058
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

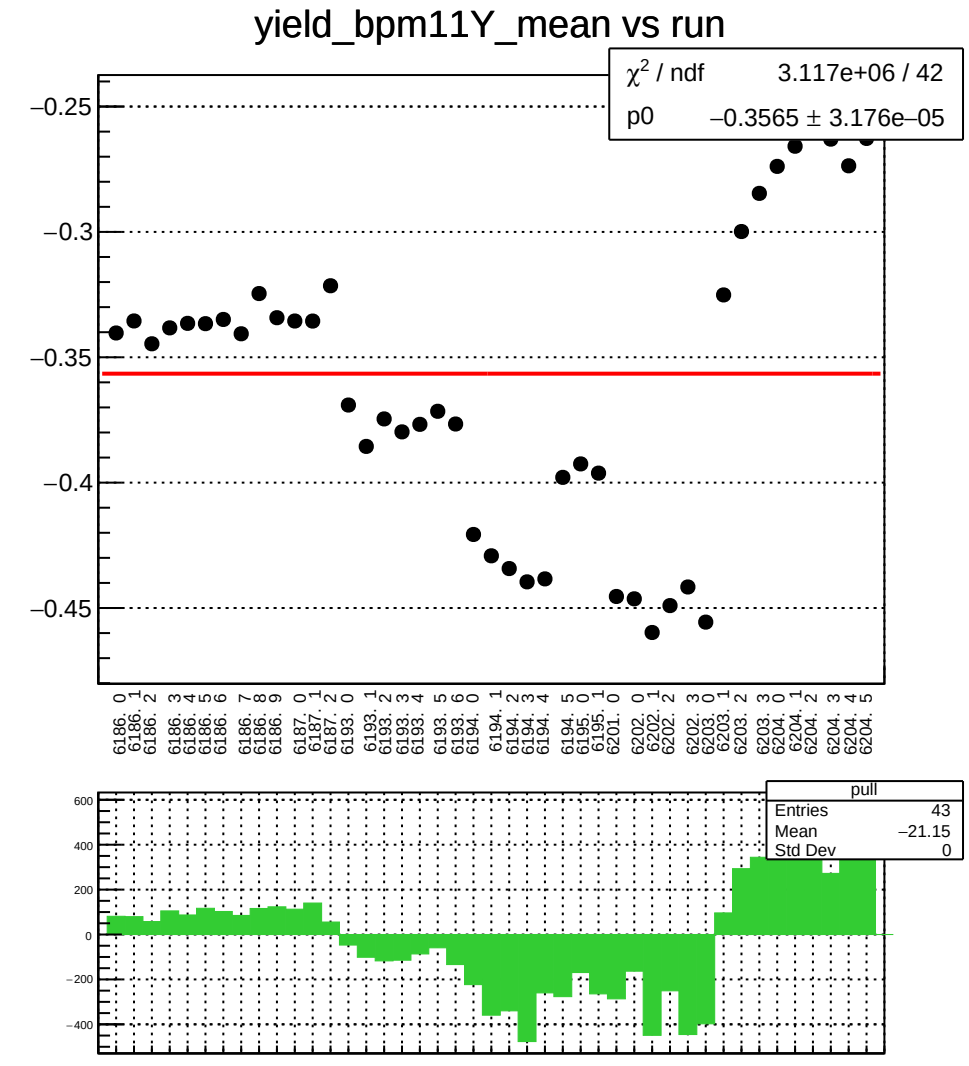

yield_bpm1Y_mean vs run
χ² / ndf 1.105e+06 / 42
p0 −0.05997 ± 0.000122
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 22.65
Std Dev 13
400
200
0
−200
−400
−600

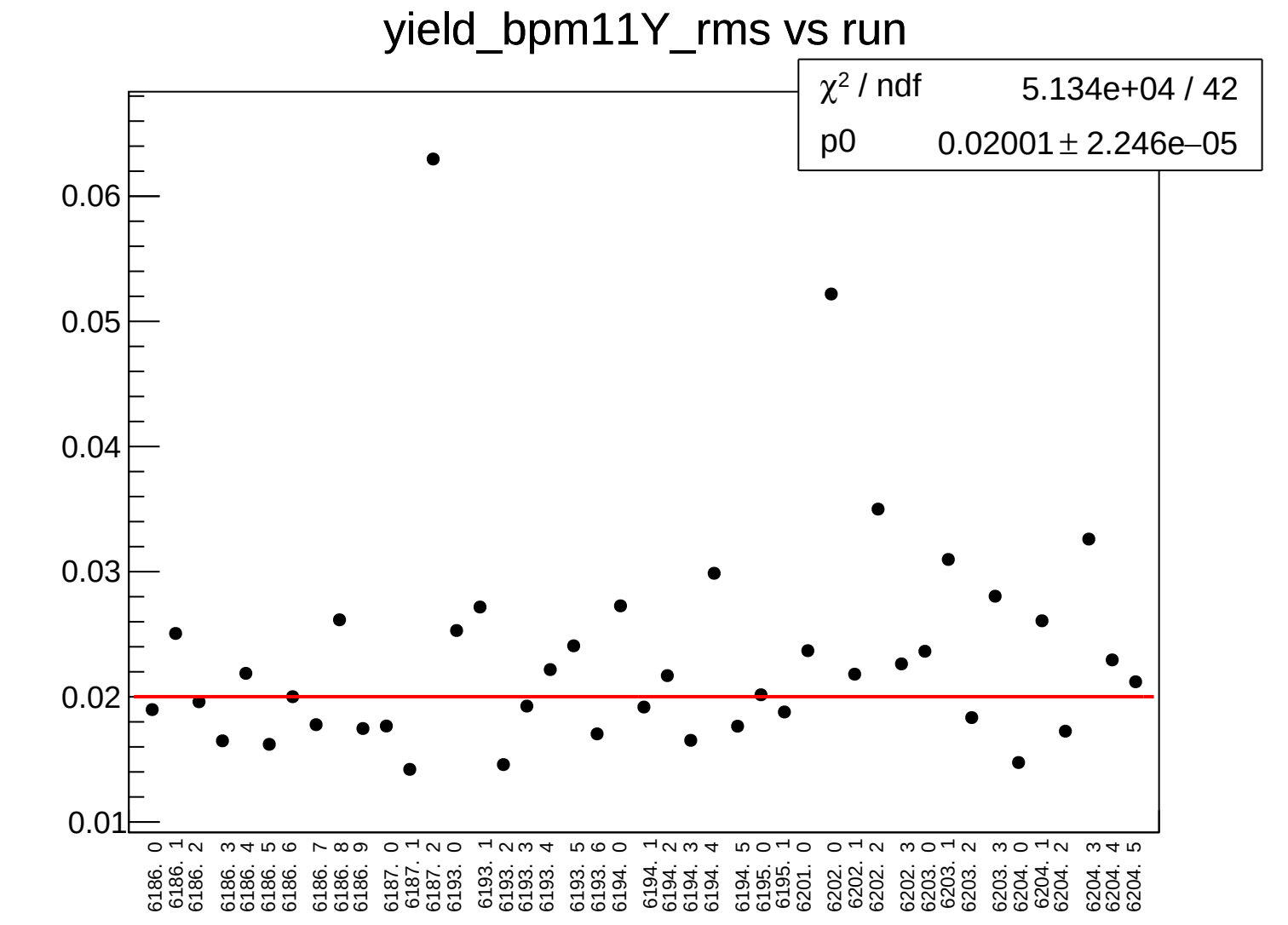

pull1D
Entries 43
Mean 4.75
Std Dev 2.25
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

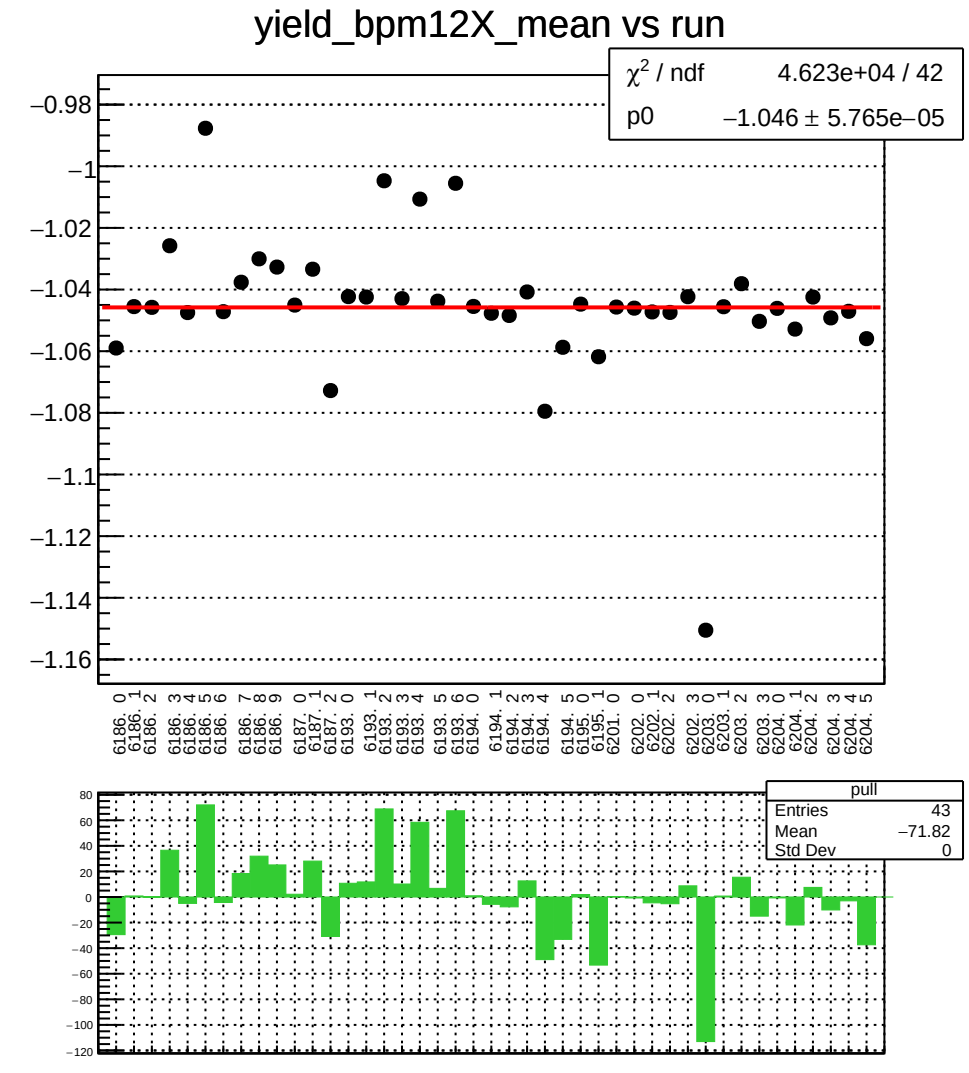

yield_bpm1Y_rms vs run
χ² / ndf 1.783e+05 / 42
p0 0.07045 ± 8.627e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

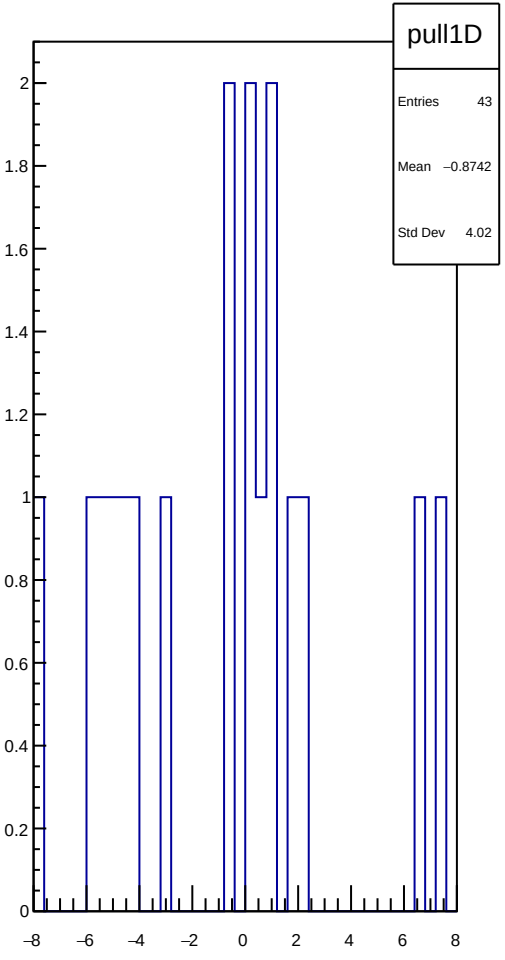

yield_bpm11X_mean vs run
χ² / ndf 4.749e+04 / 42
p0 0.8581 ± 2.356e−05
pull
Entries 43
Mean −361.5
Std Dev 0
pull1D
Entries 43
Mean 1.944
Std Dev 3.841

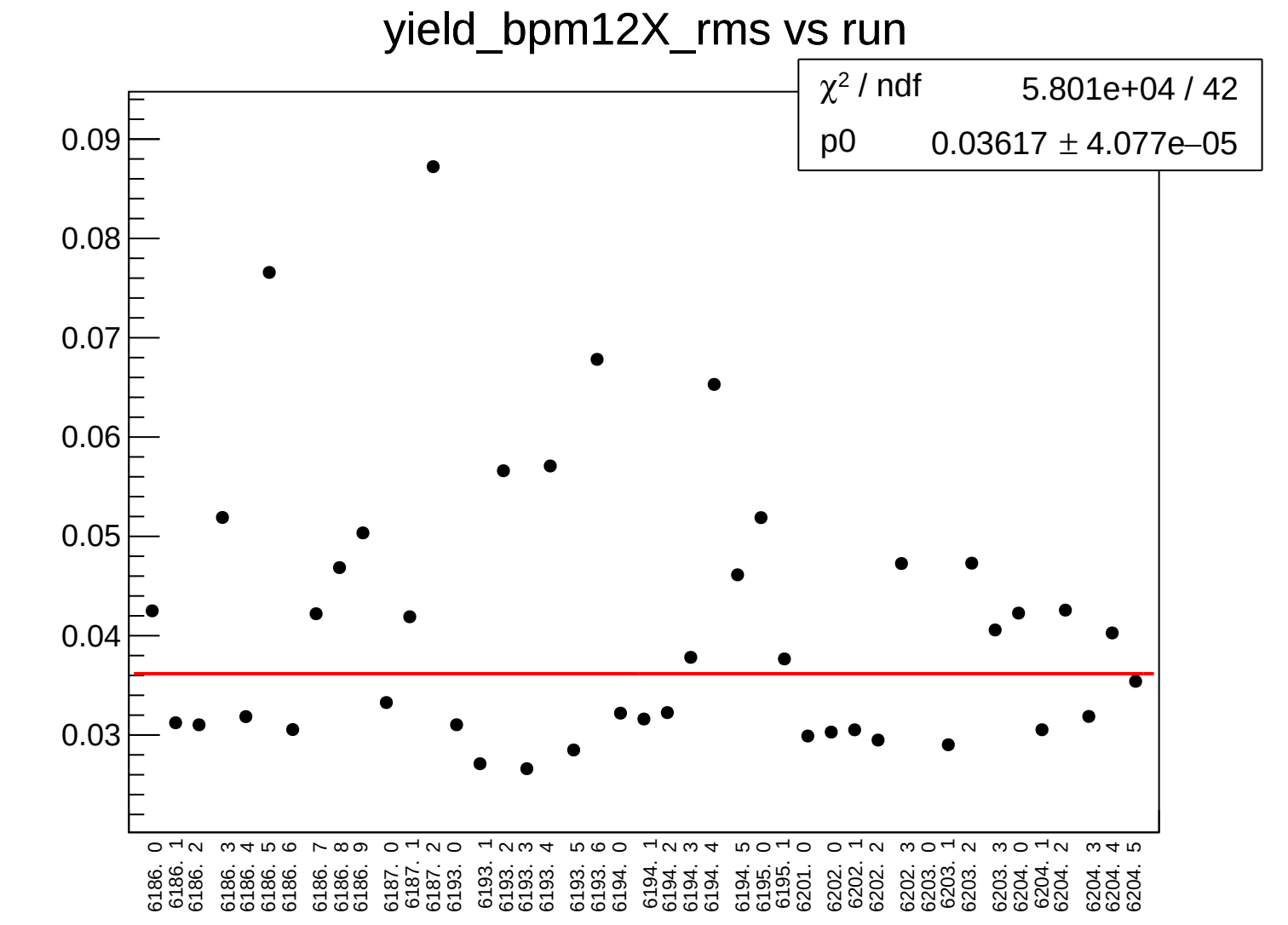

yield_bpm11X_rms vs run
χ² / ndf 5.822e+04 / 42
p0 0.01478 ± 1.666e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

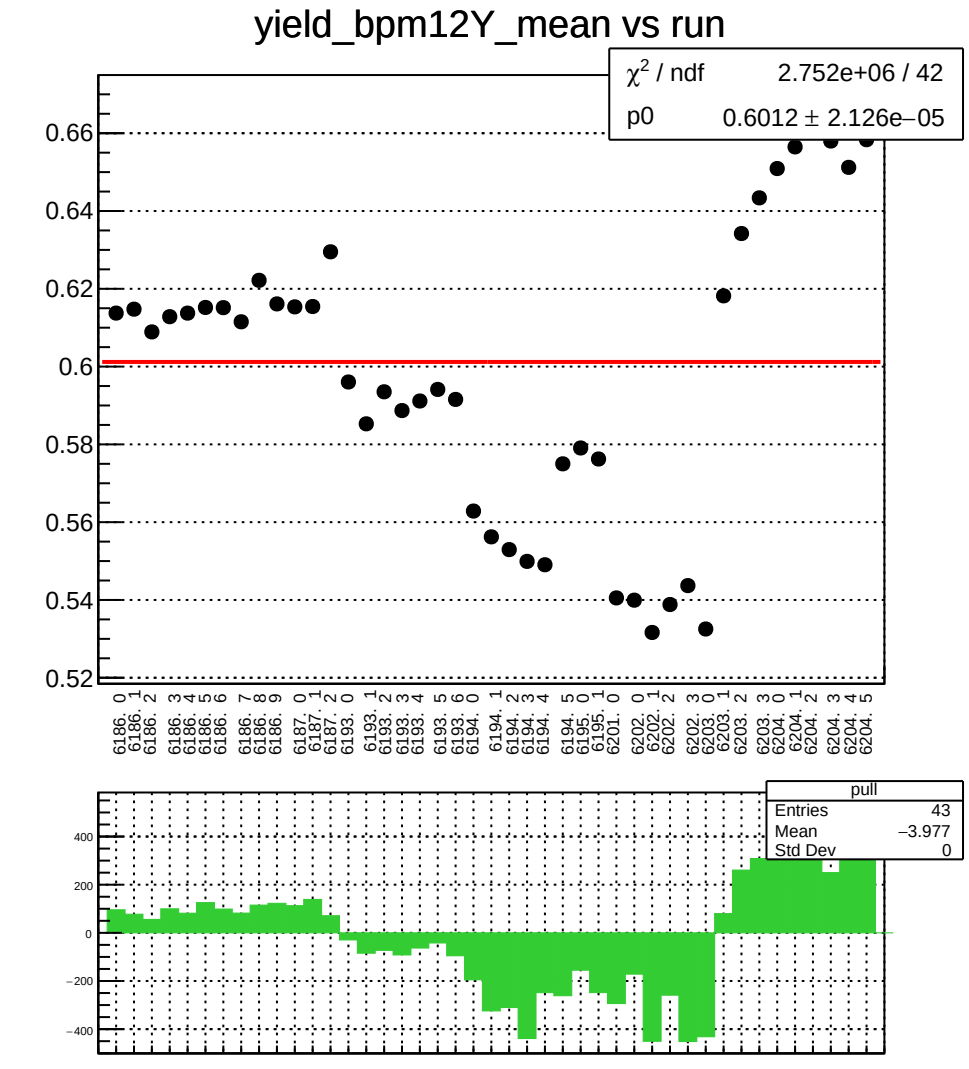

yield_bpm11Y_mean vs run
χ² / ndf 3.117e+06 / 42
p0 −0.3565 ± 3.176e−05
−0.25
−0.3
−0.35
−0.4
−0.45
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −21.15
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

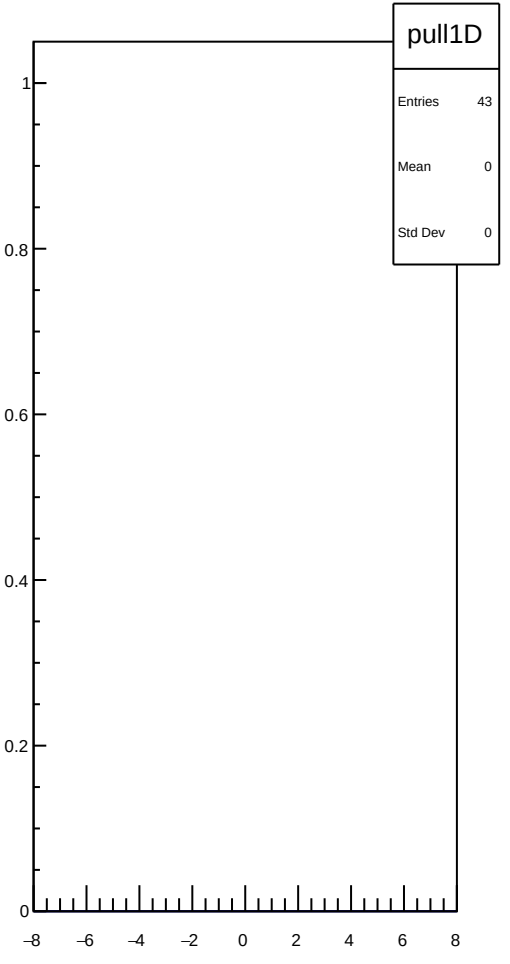

yield_bpm11Y_rms vs run
χ² / ndf 5.134e+04 / 42
p0 0.02001 ± 2.246e–05
0.06
0.05
0.04
0.03
0.02
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

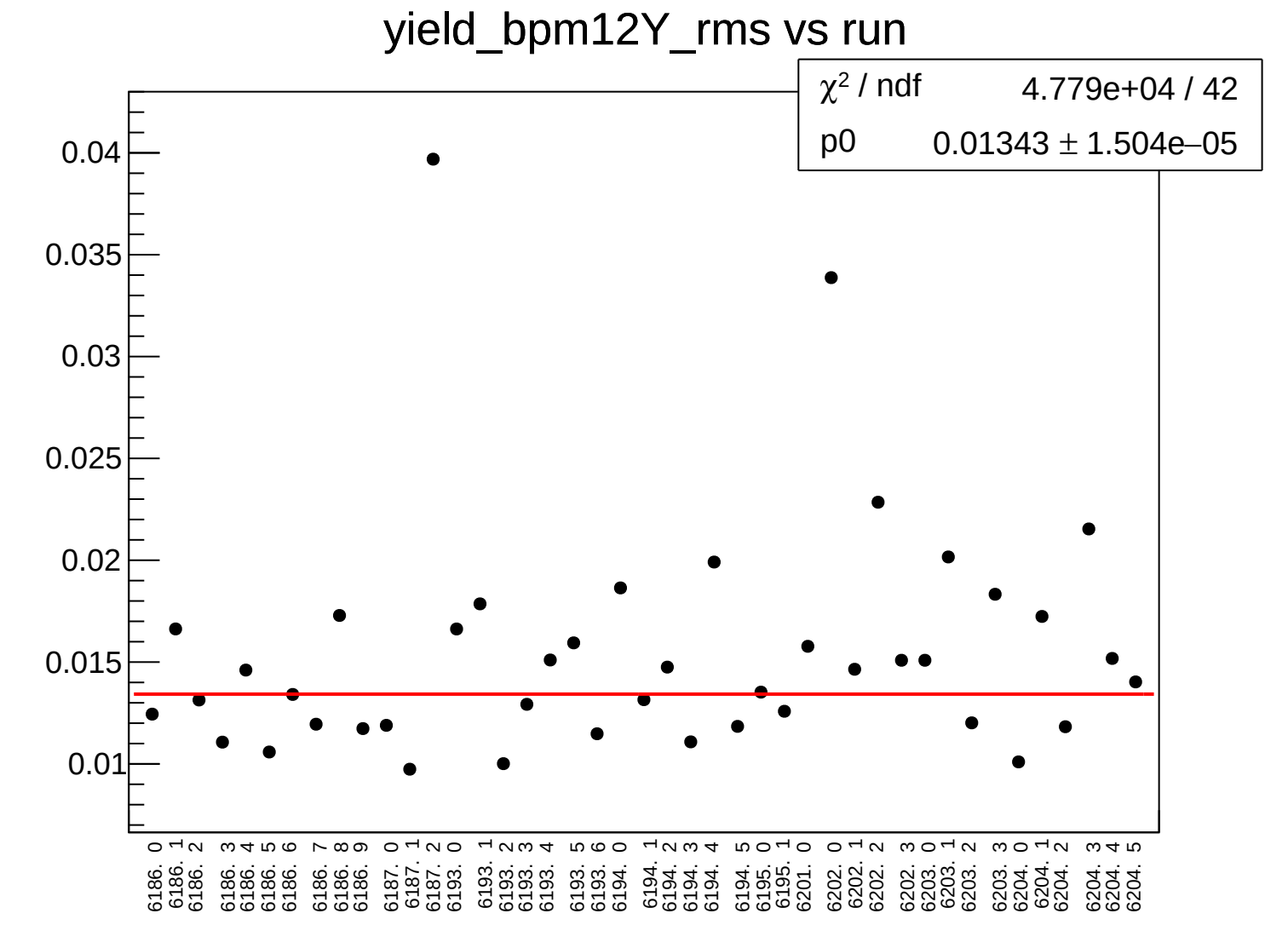

yield_bpm12X_mean vs run
χ² / ndf 4.623e+04 / 42
p0 −1.046 ± 5.765e−05
−0.98
−1
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −71.82
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

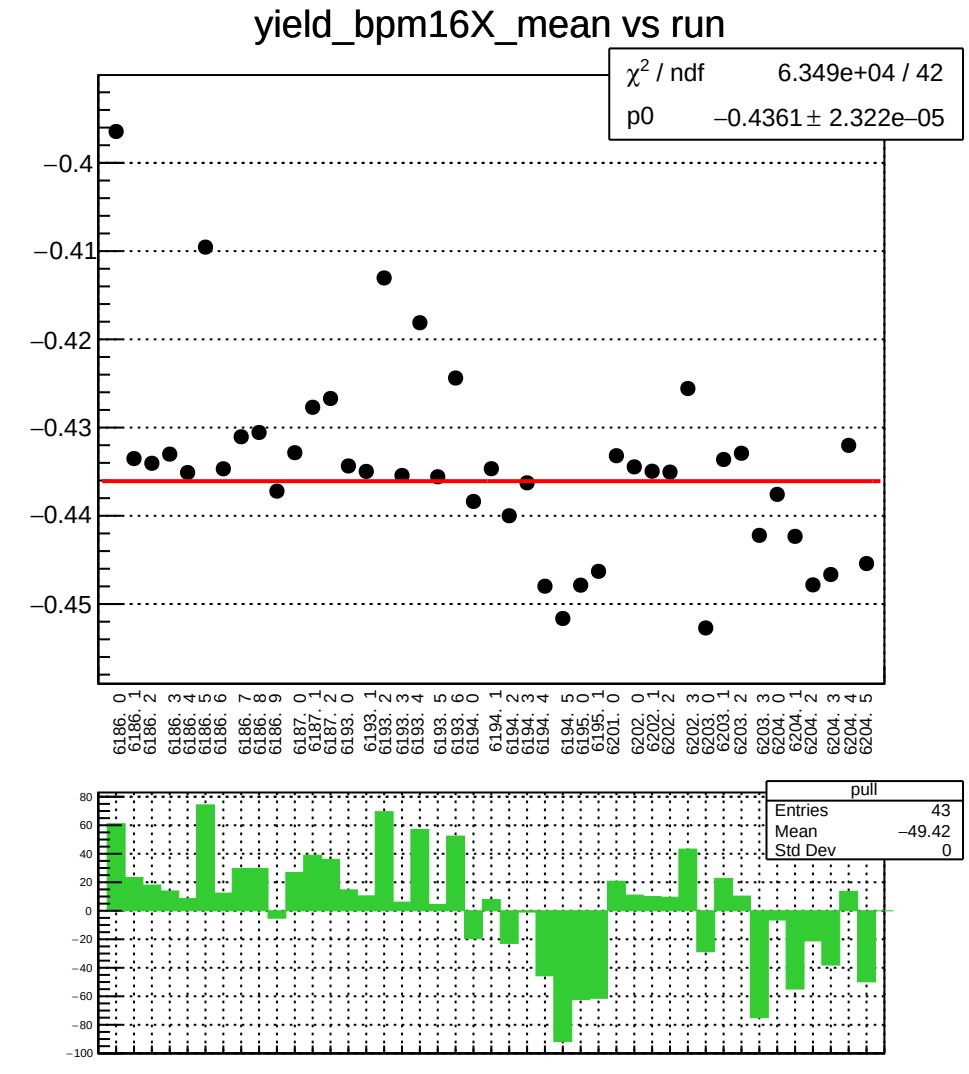

pull1D
Entries 43
Mean −0.8742
Std Dev 4.02
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

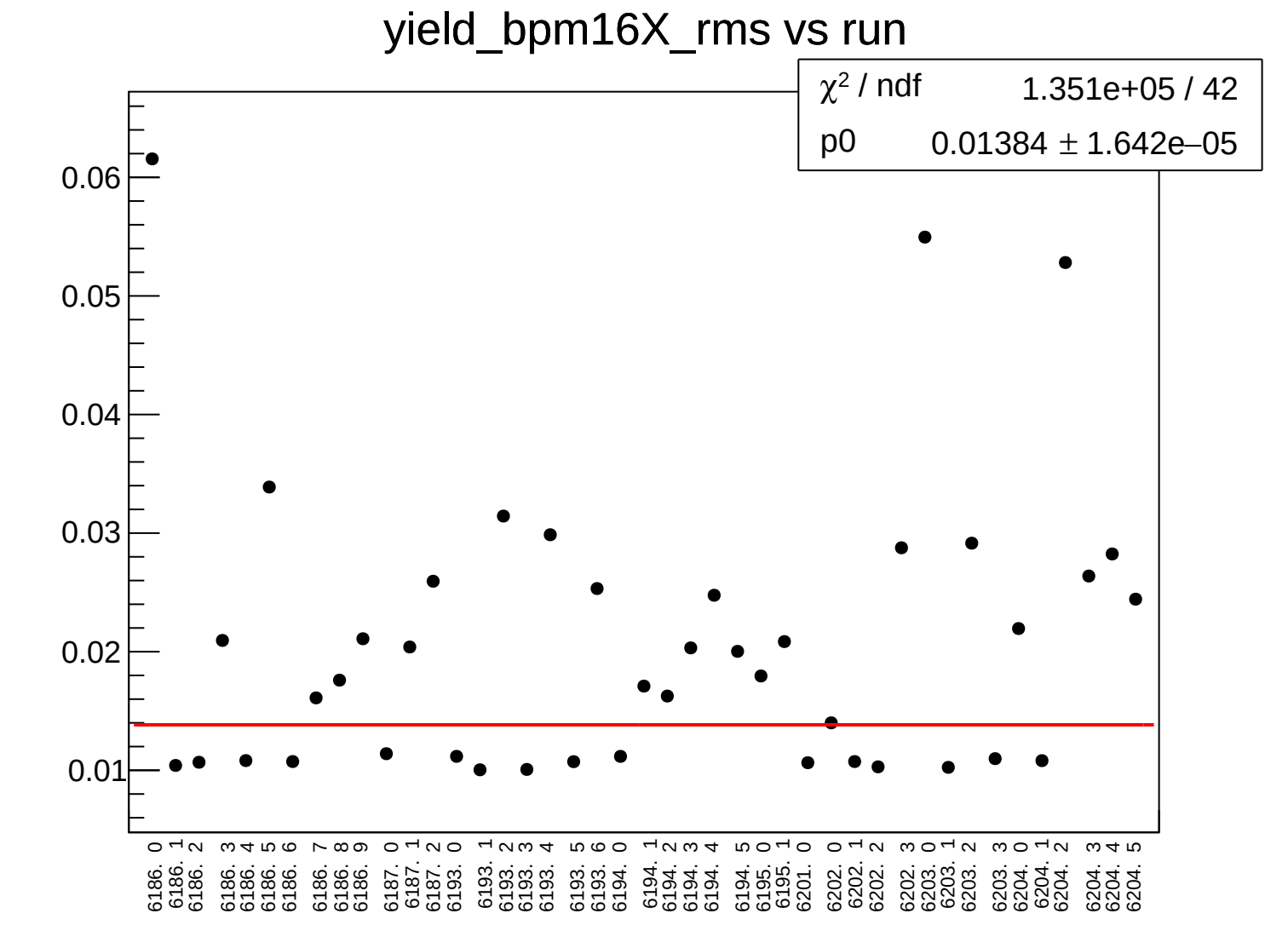

yield_bpm12X_rms vs run
χ² / ndf 5.801e+04 / 42
p0 0.03617 ± 4.077e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

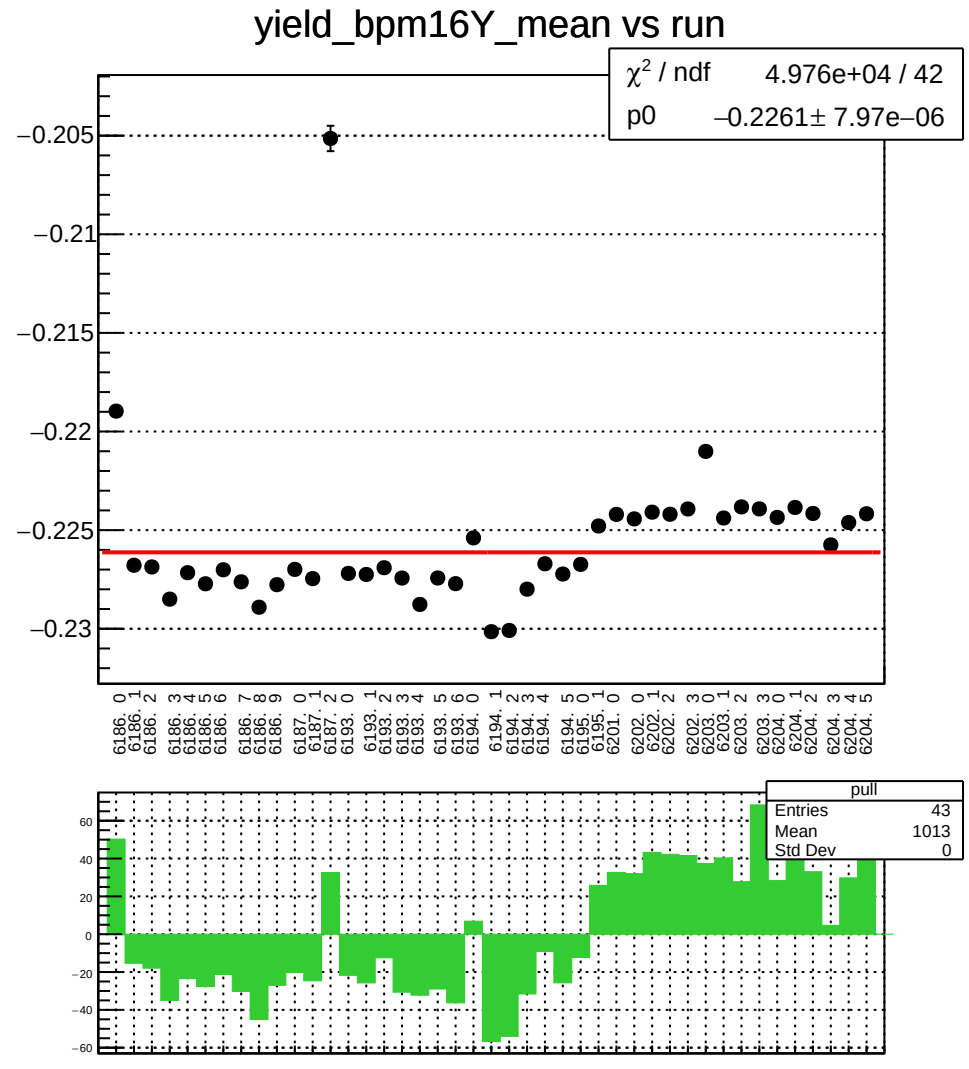

yield_bpm12Y_mean vs run
χ² / ndf 2.752e+06 / 42
p0 0.6012 ± 2.126e−05
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3.977
Std Dev 0
400
200
0
−200
−400

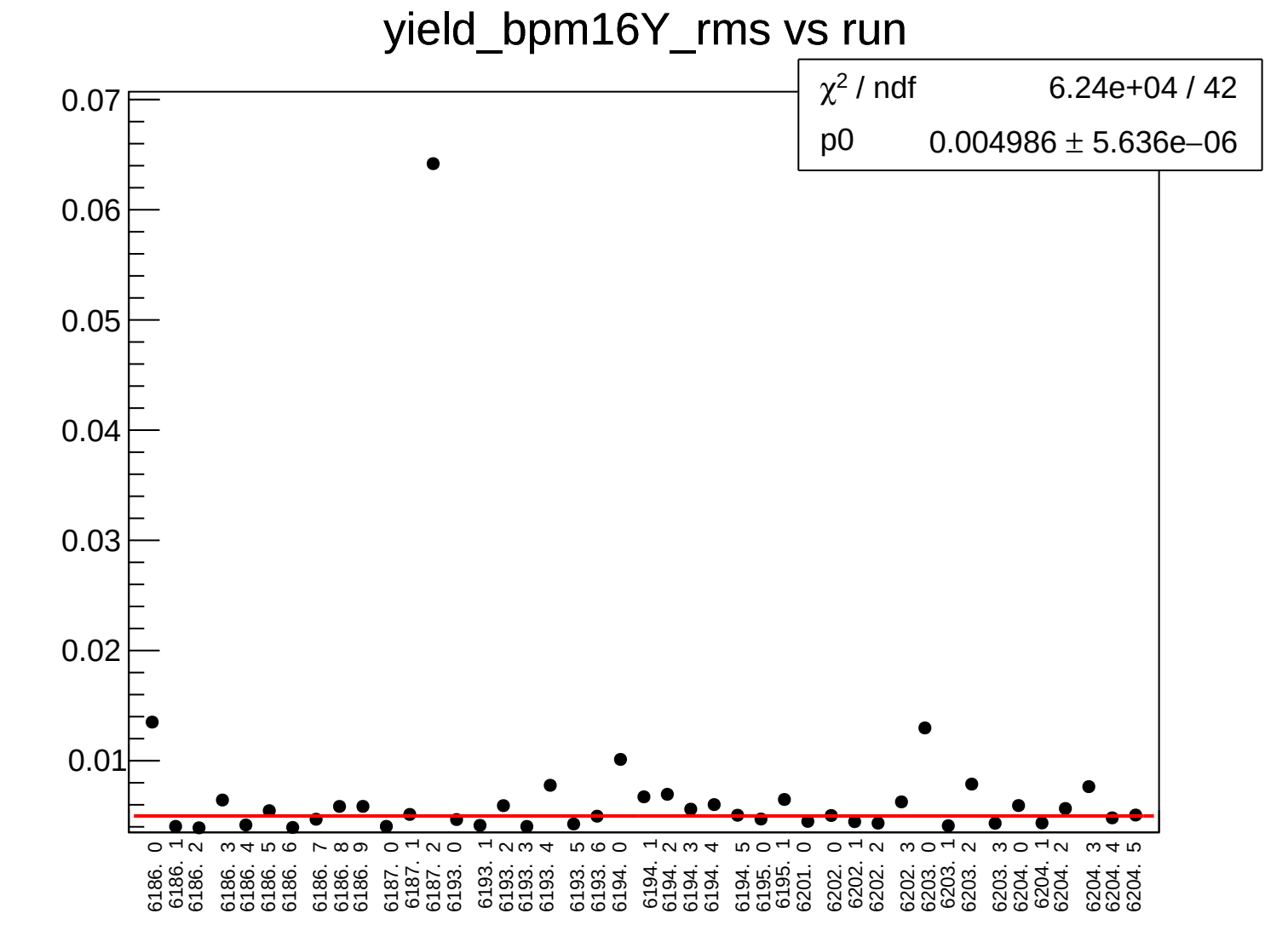

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

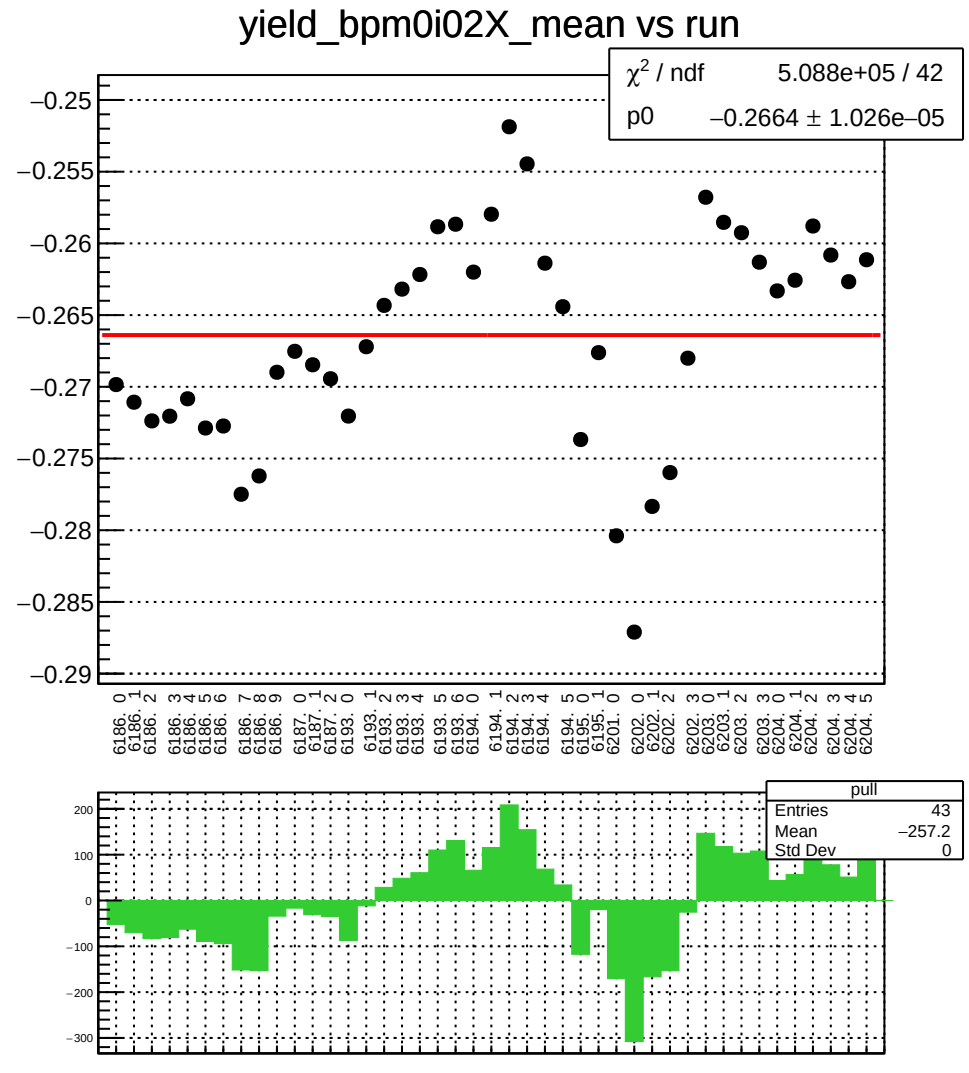

yield_bpm12Y_rms vs run
χ² / ndf 4.779e+04 / 42
p0 0.01343 ± 1.504e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

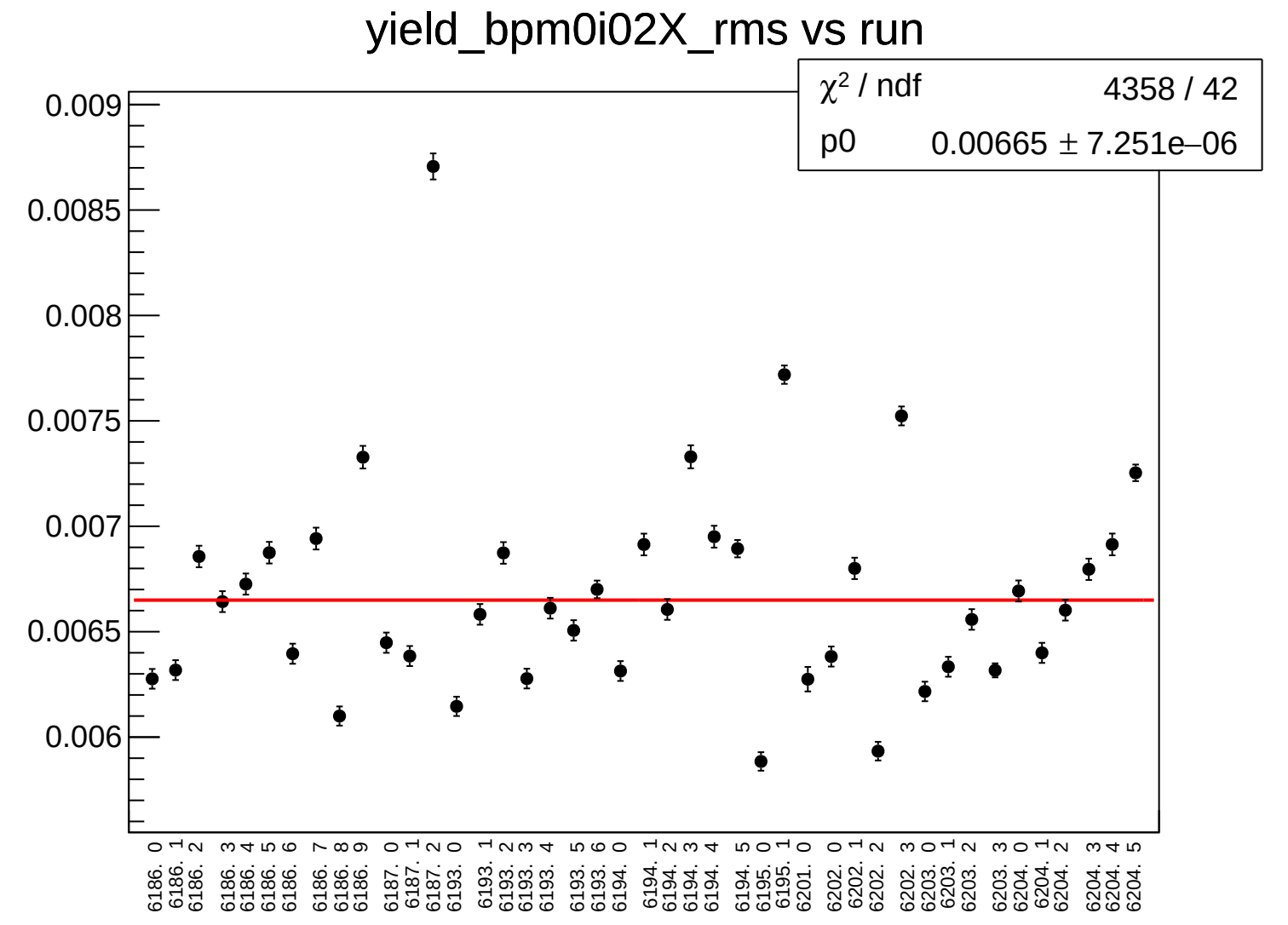

yield_bpm16X_mean vs run
χ² / ndf 6.349e+04 / 42
p0 −0.4361 ± 2.322e−05
−0.4
−0.41
−0.42
−0.43
−0.44
−0.45
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −49.42
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 43
Mean 0.9694
Std Dev 5.504
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

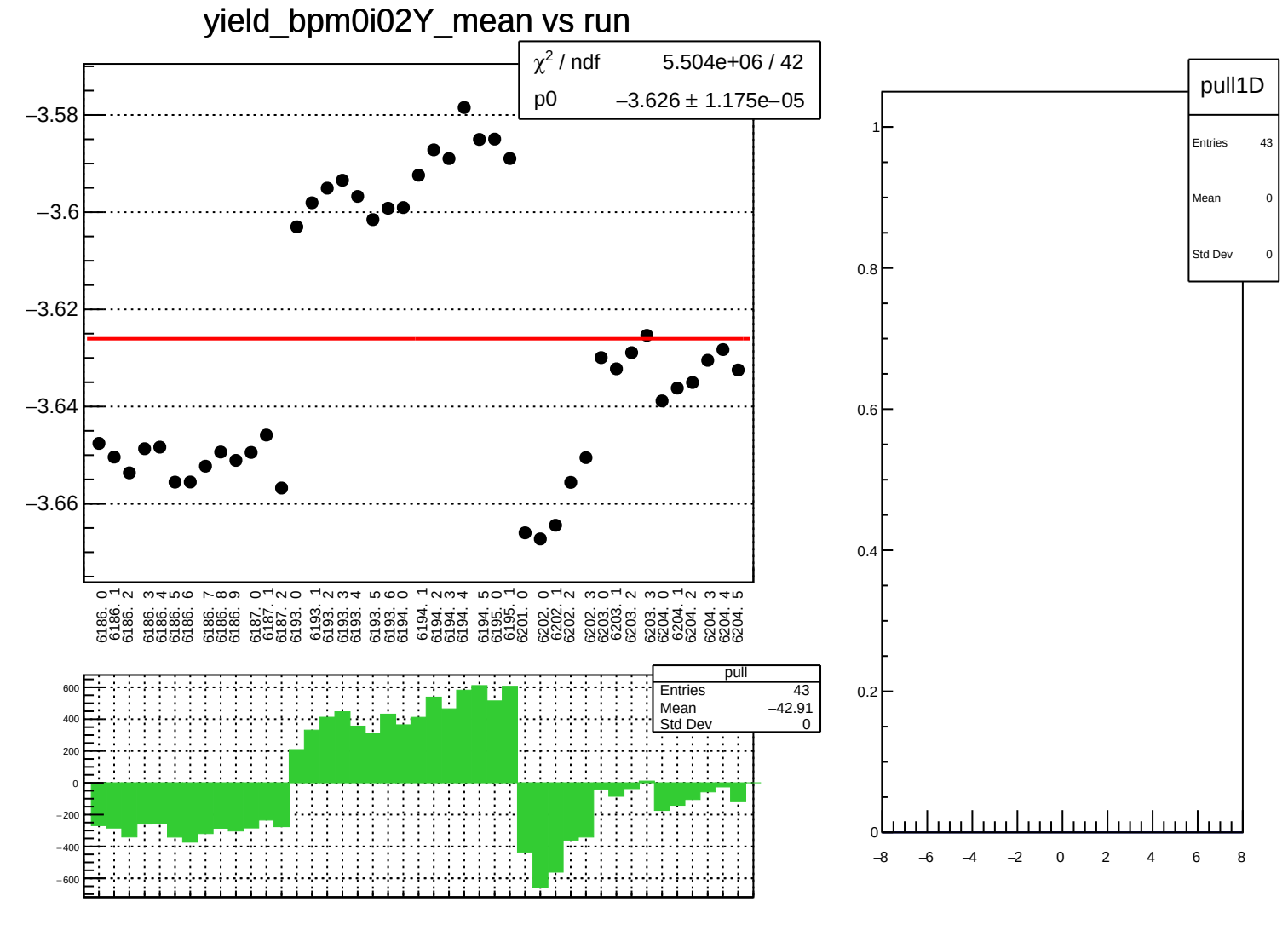

yield_bpm16X_rms vs run
χ² / ndf 1.351e+05 / 42
p0 0.01384 ± 1.642e−05
0.06
0.05
0.04
0.03
0.02
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

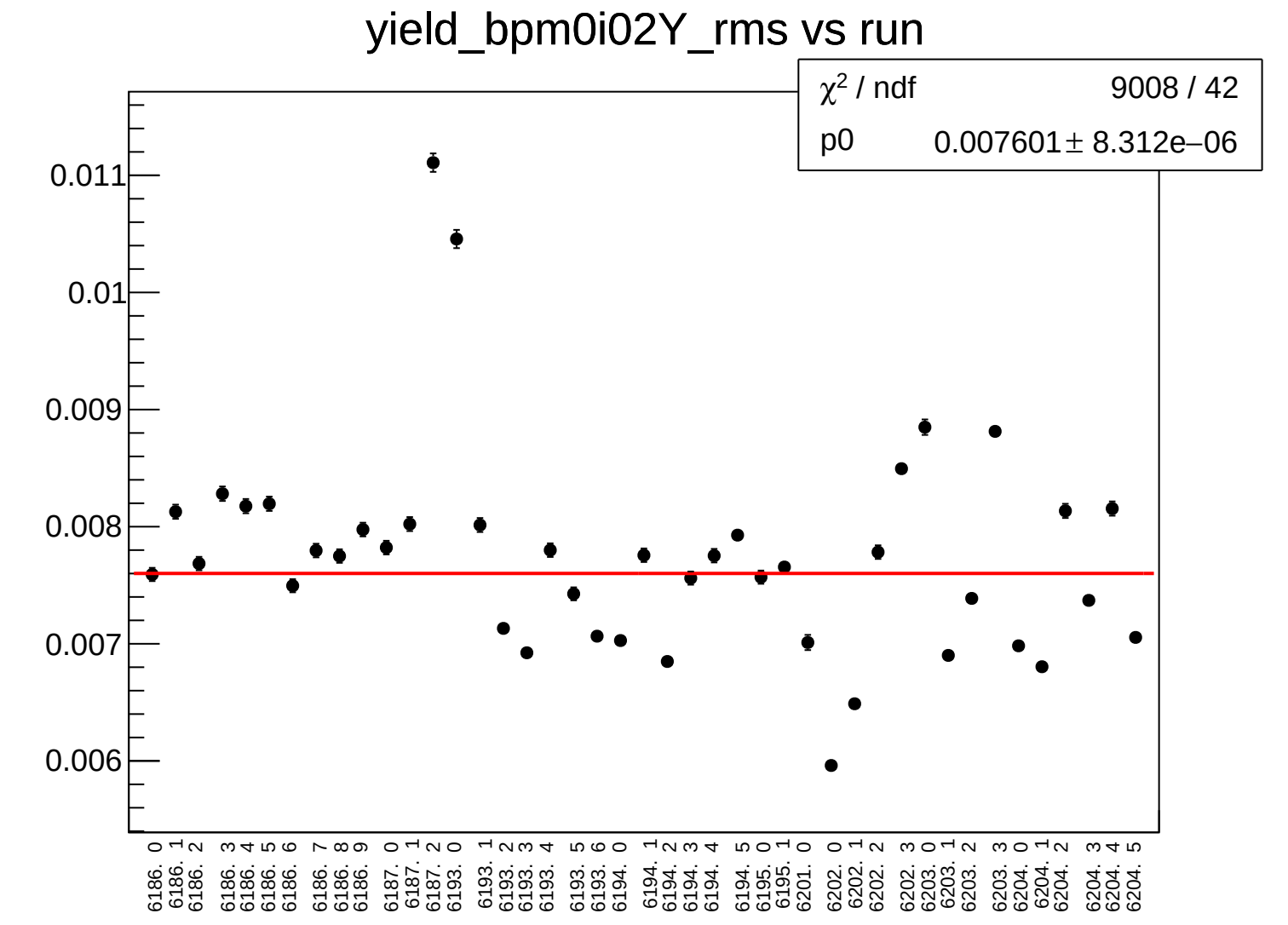

yield_bpm16Y_mean vs run
χ² / ndf 4.976e+04 / 42
p0 −0.2261± 7.97e−06
−0.205
−0.21
−0.215
−0.22
−0.225
−0.23
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1013
Std Dev 0
60
40
20
0
−20
−40
−60
pull1D
Entries 43
Mean 5.782
Std Dev 1.092
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

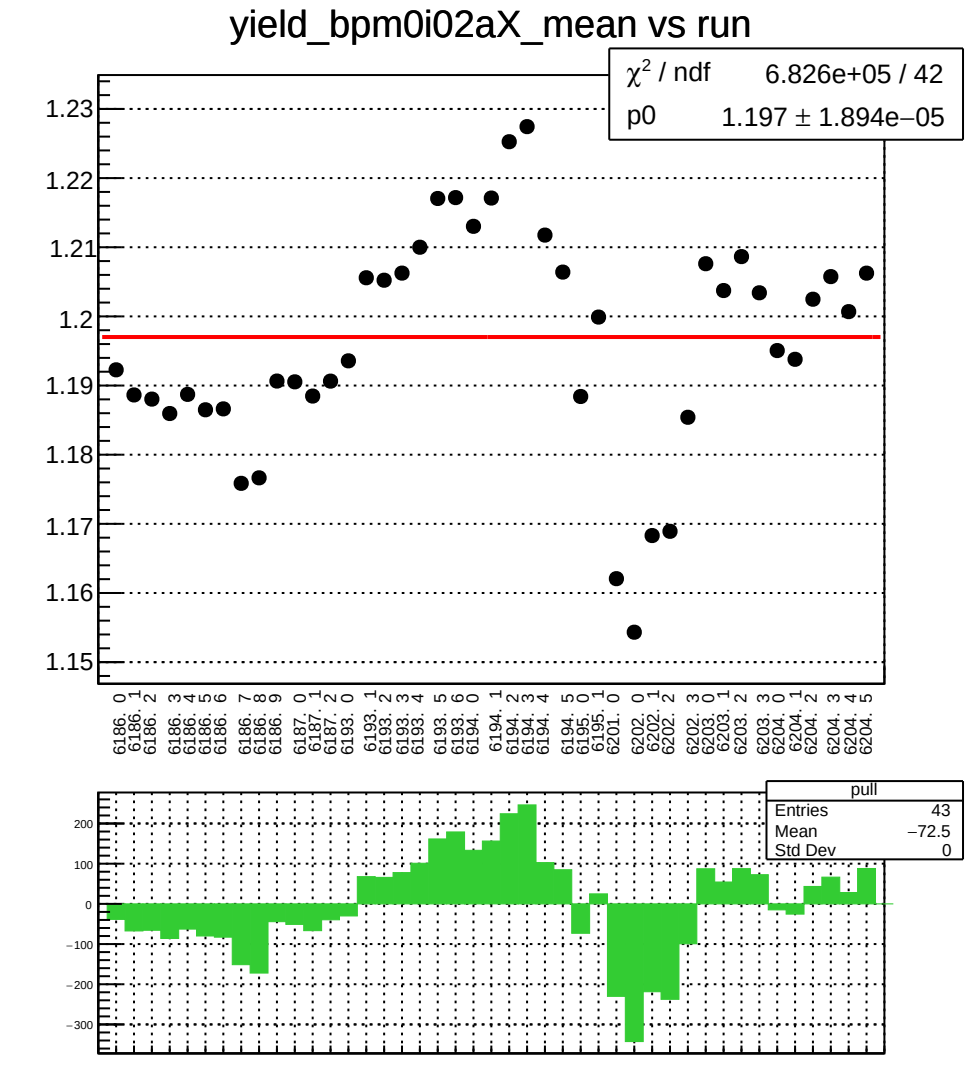

yield_bpm16Y_rms vs run
χ² / ndf 6.24e+04 / 42
p0 0.004986 ± 5.636e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

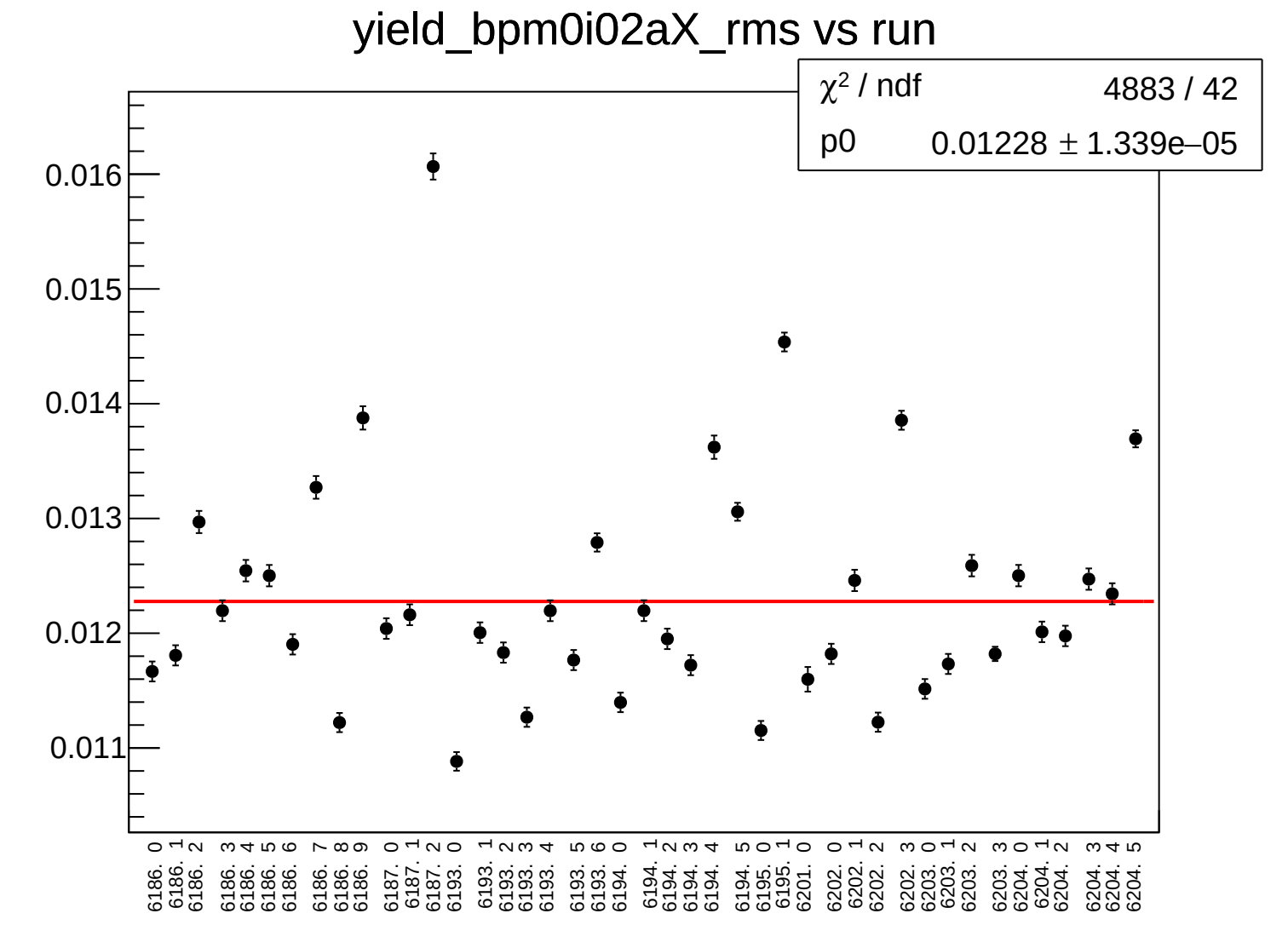

yield_bpm0i02X_mean vs run
χ² / ndf 5.088e+05 / 42
p0 −0.2664 ± 1.026e−05
−0.25
−0.255
−0.26
−0.265
−0.27
−0.275
−0.28
−0.285
−0.29
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −257.2
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

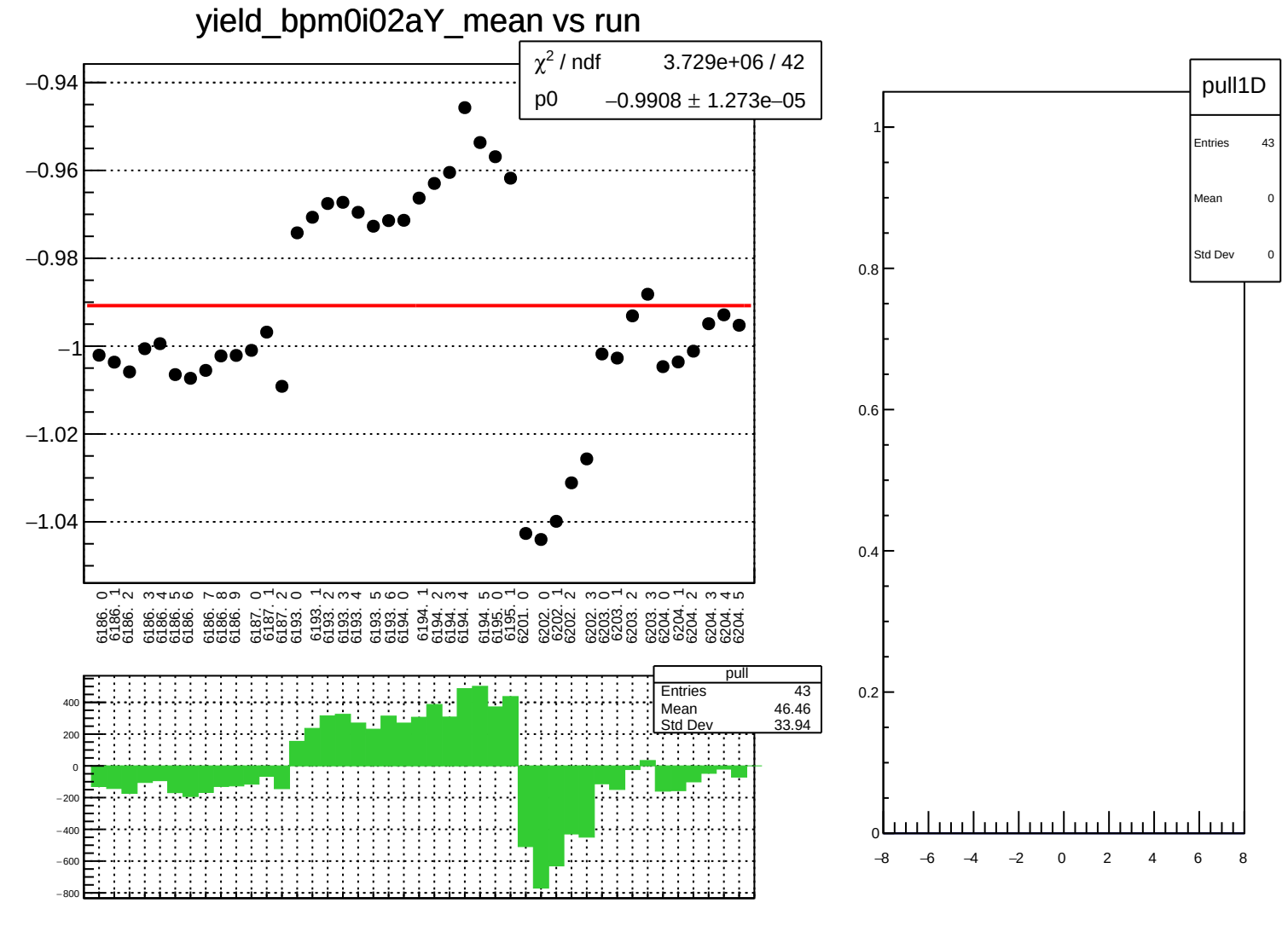

yield_bpm0i02X_rms vs run
χ² / ndf 4358 / 42
p0 0.00665 ± 7.251e–06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

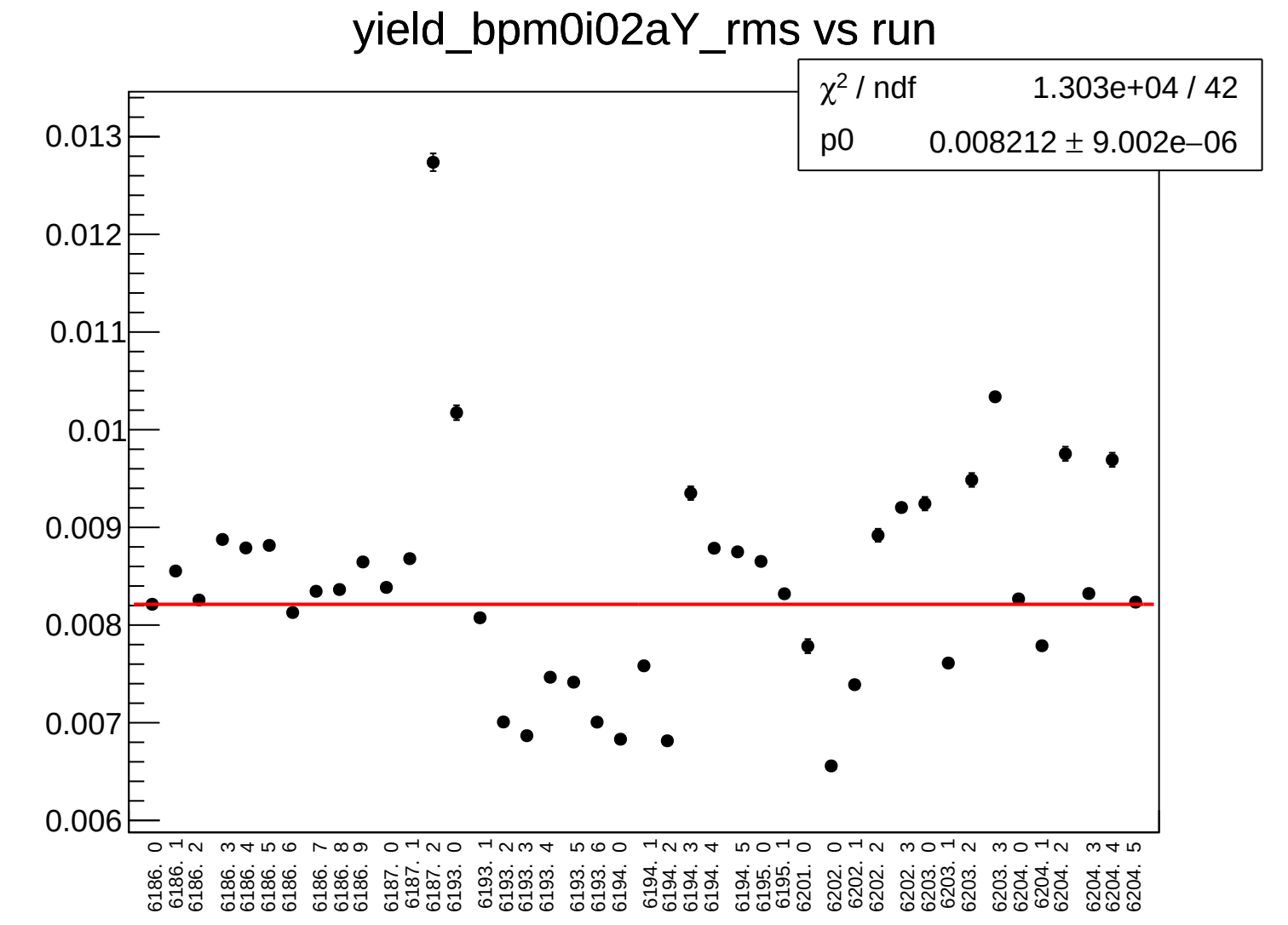

yield_bpm0i02Y_mean vs run
χ² / ndf 5.504e+06 / 42
p0 −3.626 ± 1.175e−05
−3.58
−3.6
−3.62
−3.64
−3.66
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −42.91
Std Dev 0
600
400
200
0
−200
−400
−600
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

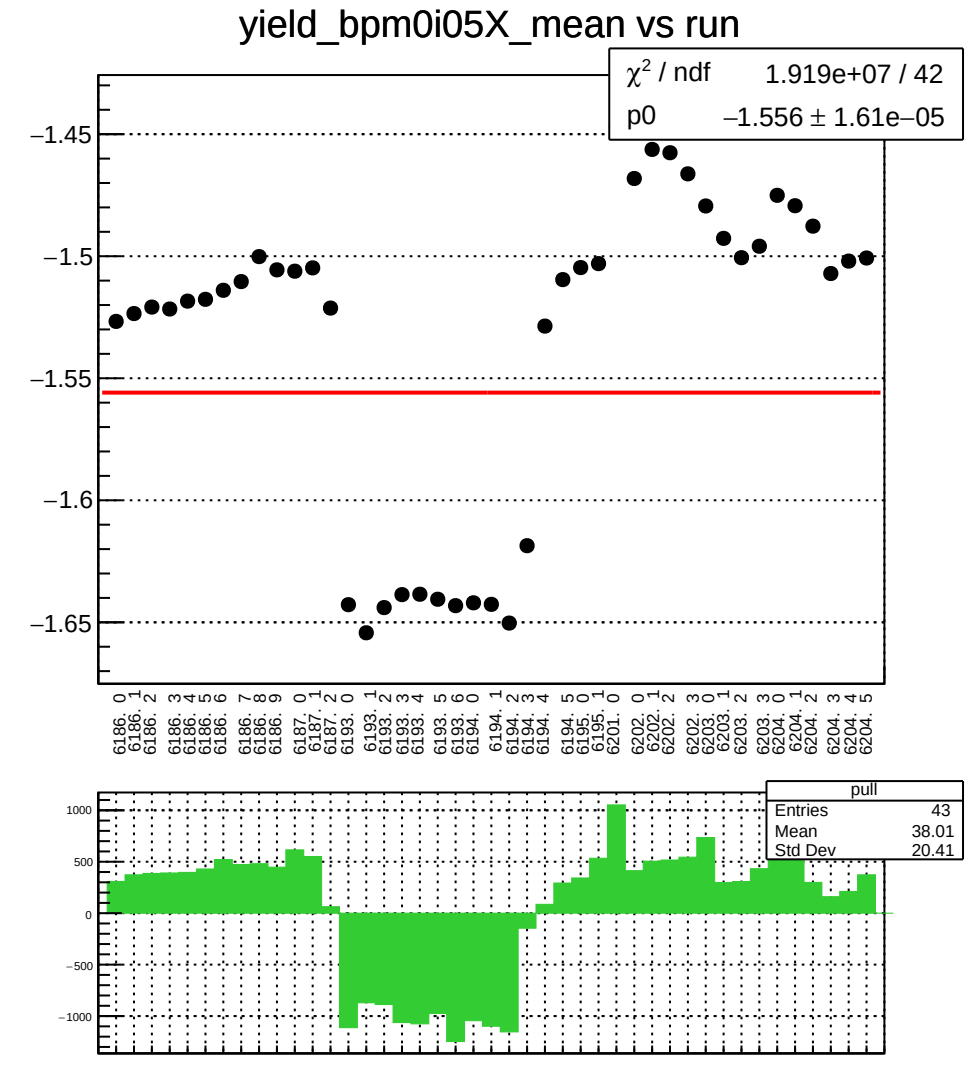

yield_bpm0i02Y_rms vs run
χ² / ndf 9008 / 42
p0 0.007601 ± 8.312e−06
0.011
0.01
0.009
0.008
0.007
0.006
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

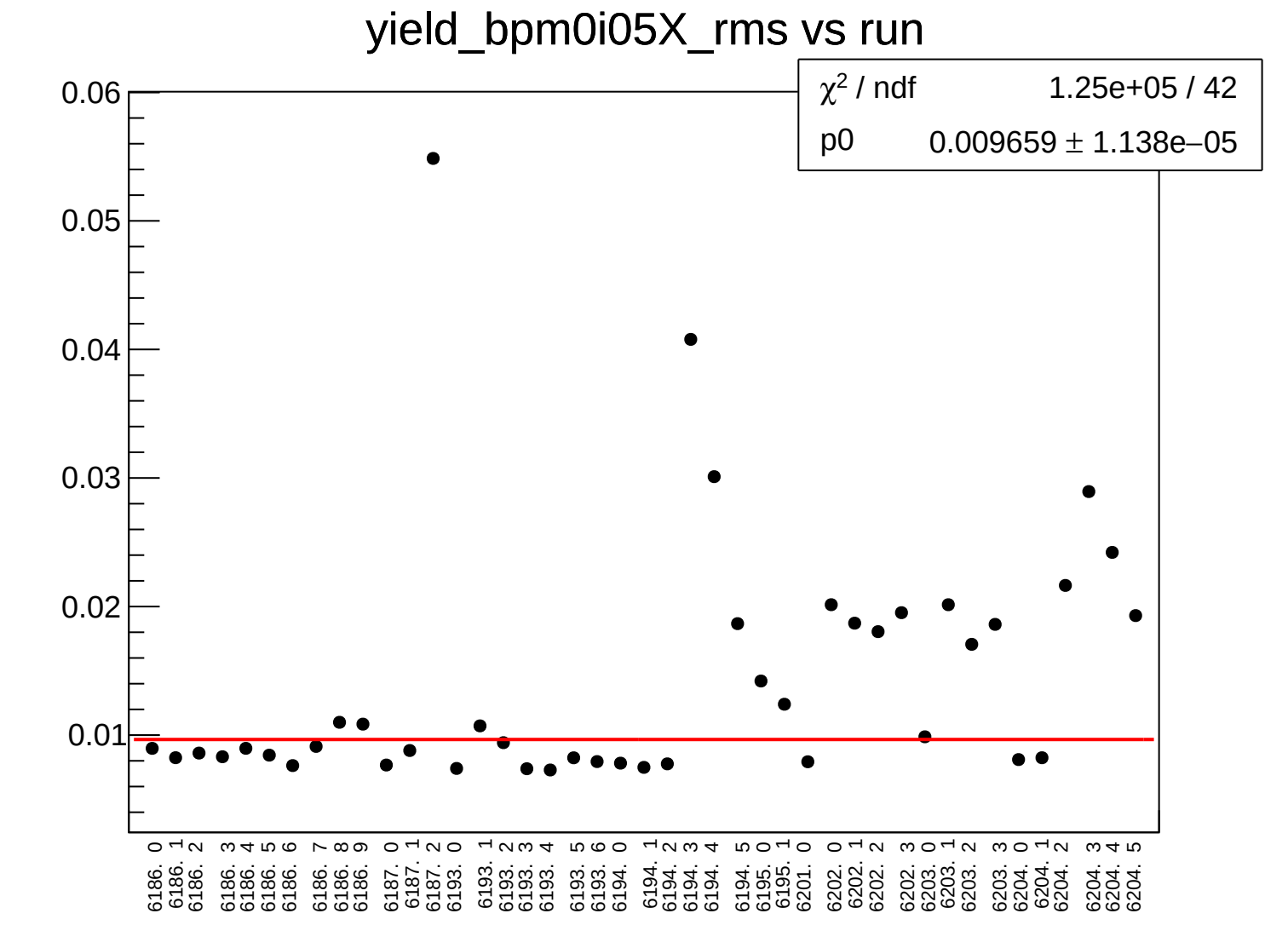

yield_bpm0i02aX_mean vs run
χ² / ndf 6.826e+05 / 42
p0 1.197 ± 1.894e−05
1.23
1.22
1.21
1.2
1.19
1.18
1.17
1.16
1.15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −72.5
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

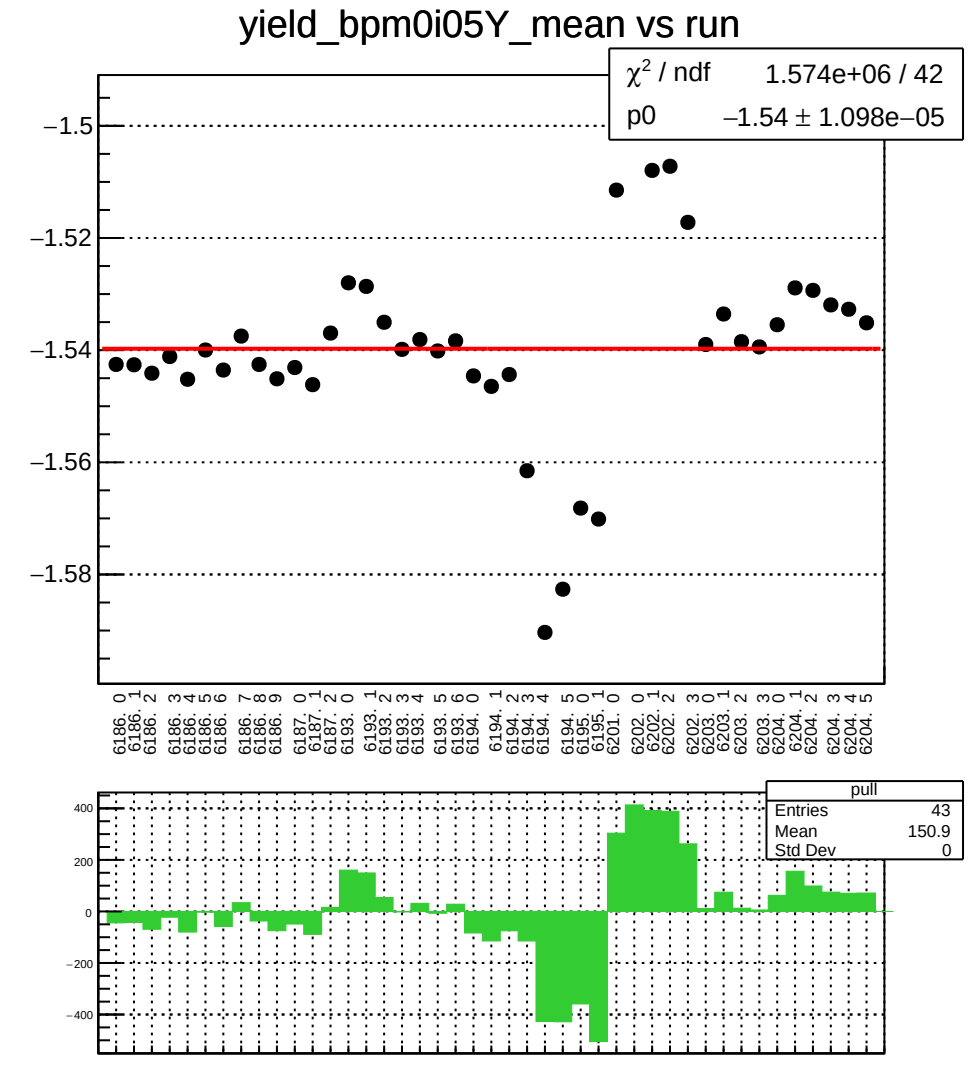

yield_bpm0i02aX_rms vs run
χ² / ndf 4883 / 42
p0 0.01228 ± 1.339e–05
0.016
0.015
0.014
0.013
0.012
0.011
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

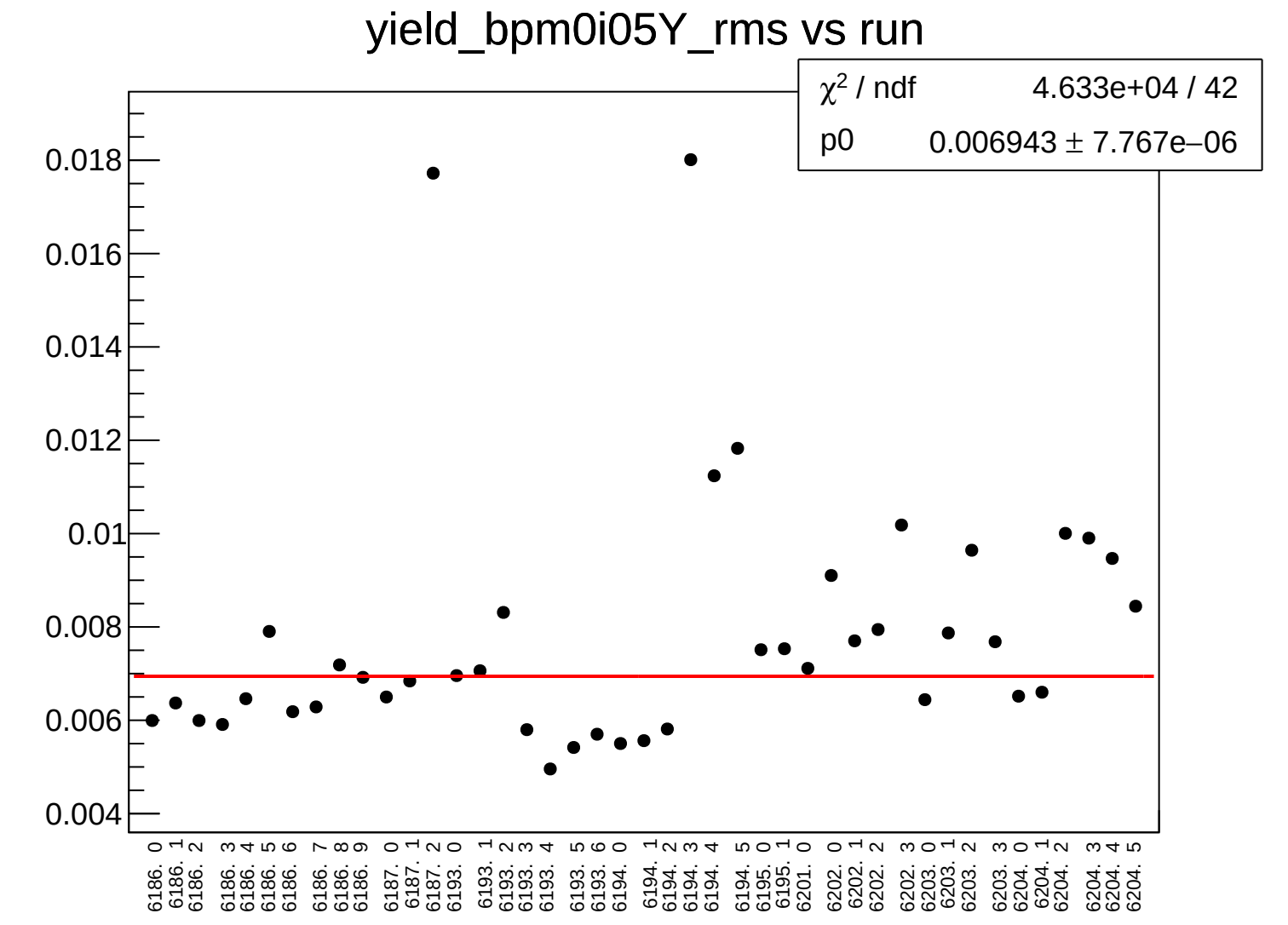

yield_bpm0i02aY_mean vs run
χ² / ndf 3.729e+06 / 42
p0 −0.9908 ± 1.273e−05
−0.94
−0.96
−0.98
−1
−1.02
−1.04
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 46.46
Std Dev 33.94
400
200
0
−200
−400
−600
−800
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

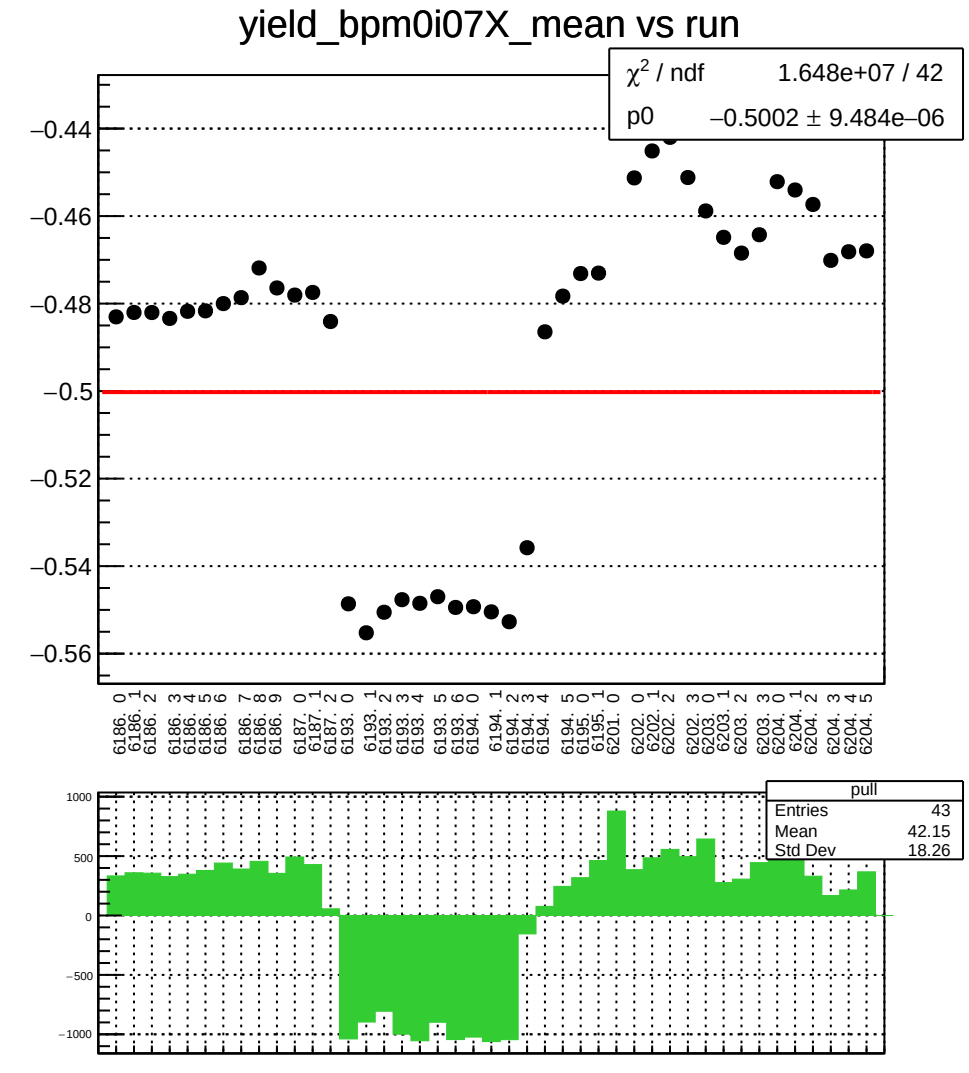

yield_bpm0i02aY_rms vs run
χ² / ndf 1.303e+04 / 42
p0 0.008212 ± 9.002e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

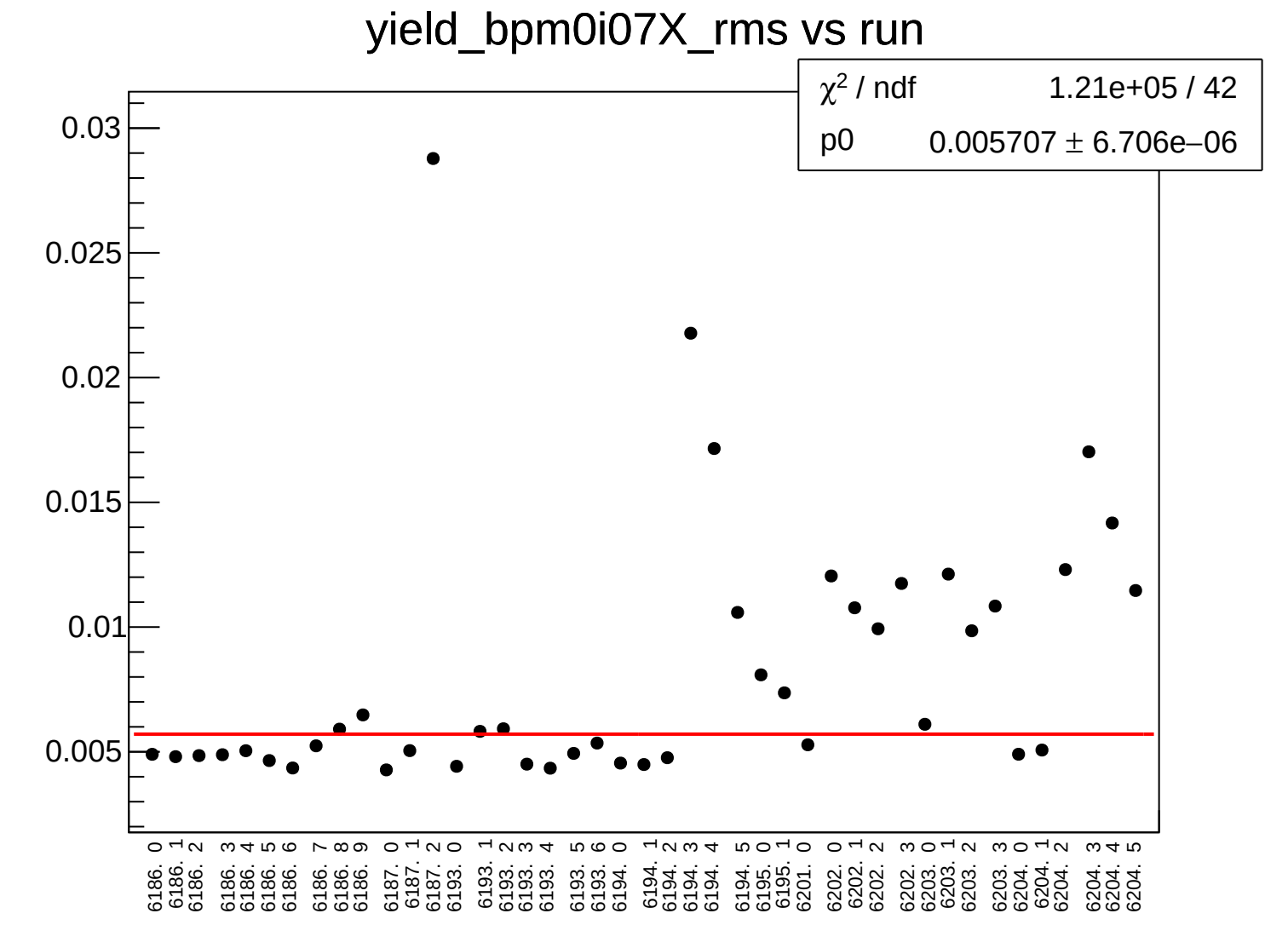

yield_bpm0i05X_mean vs run
χ² / ndf 1.919e+07 / 42
p0 −1.556 ± 1.61e−05
−1.45
−1.5
−1.55
−1.6
−1.65
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 38.01
Std Dev 20.41
1000
500
0
−500
−1000
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

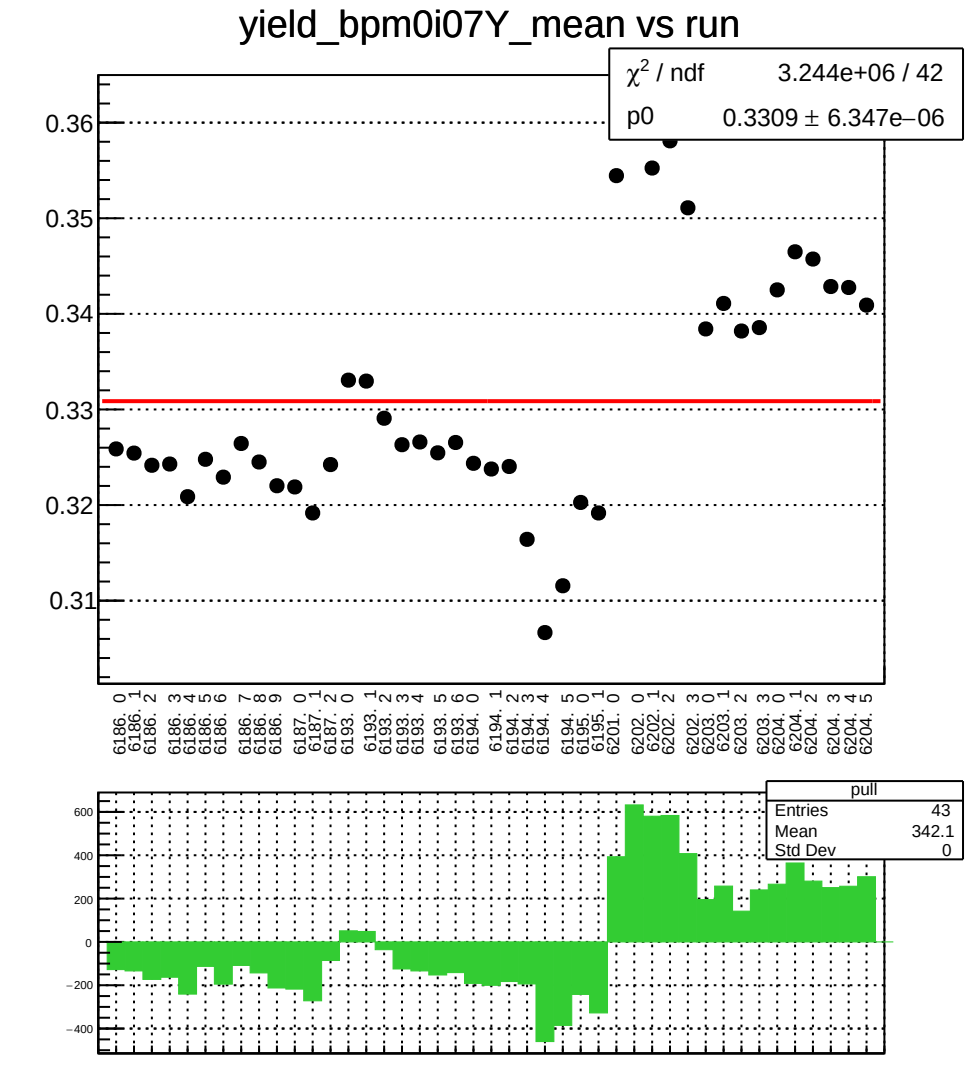

yield_bpm0i05X_rms vs run
χ² / ndf 1.25e+05 / 42
p0 0.009659 ± 1.138e−05
0.06
0.05
0.04
0.03
0.02
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

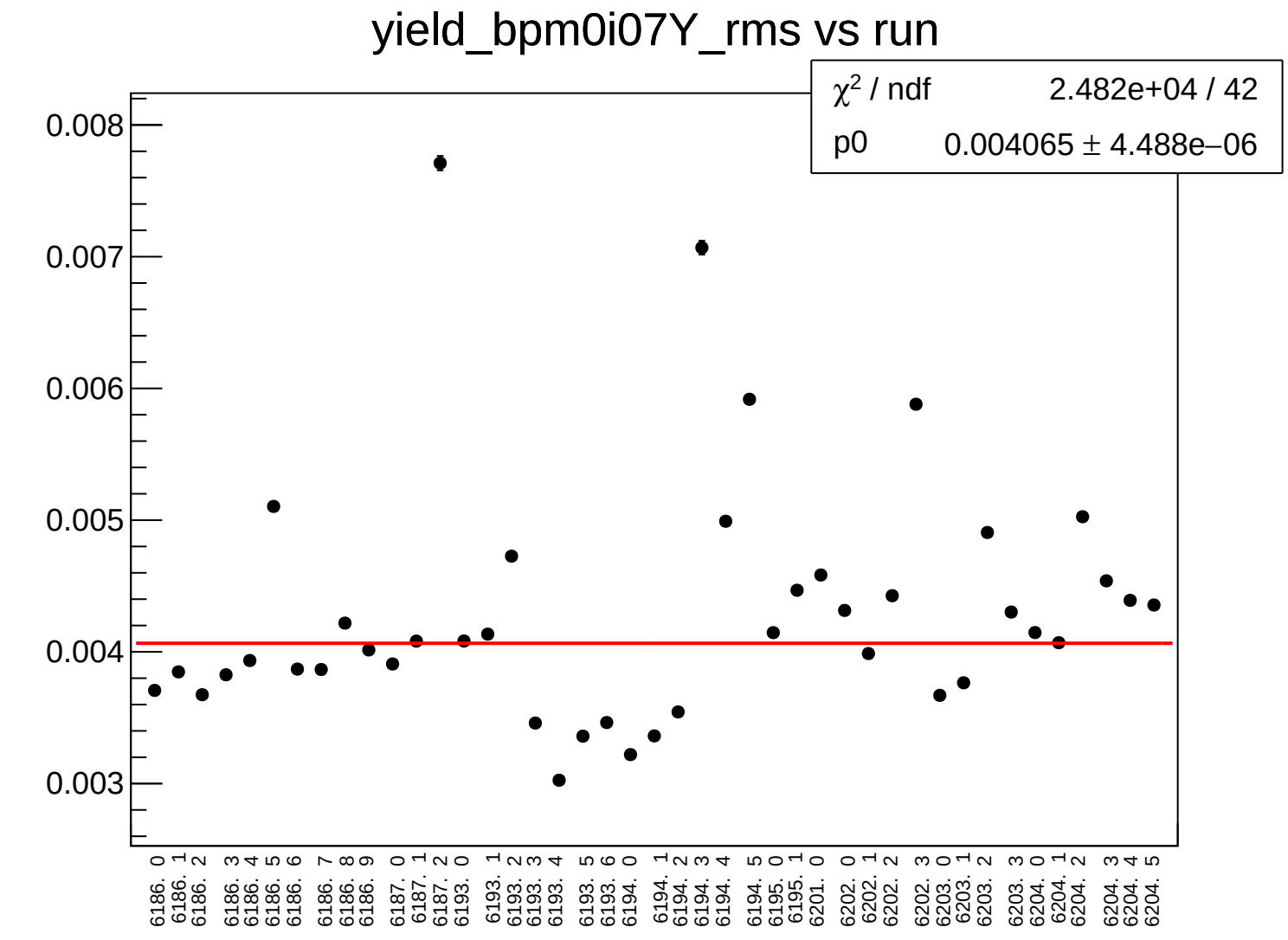

yield_bpm0i05Y_mean vs run
χ² / ndf 1.574e+06 / 42
p0 −1.54 ± 1.098e−05
−1.5
−1.52
−1.54
−1.56
−1.58
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 150.9
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 43
Mean −1.504
Std Dev 4.533
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

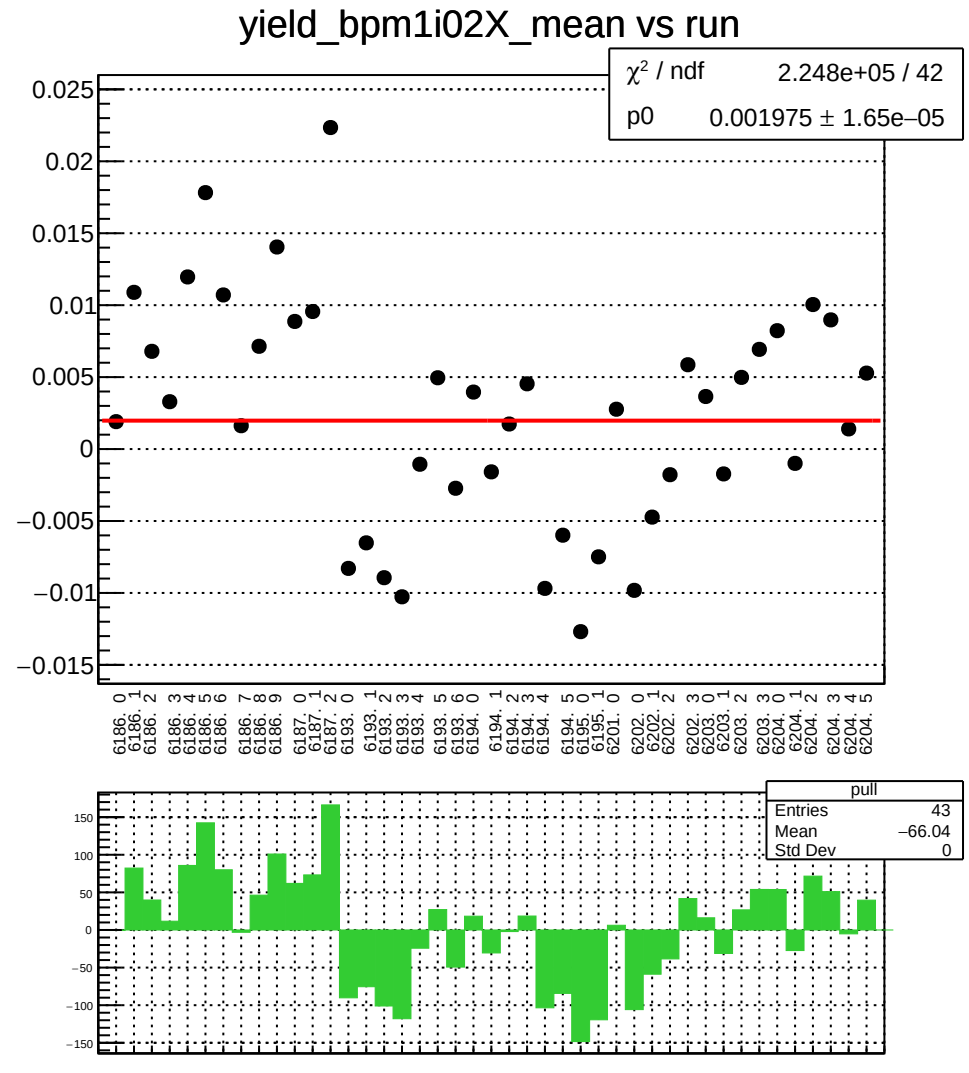

yield_bpm0i05Y_rms vs run
χ² / ndf 4.633e+04 / 42
p0 0.006943 ± 7.767e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

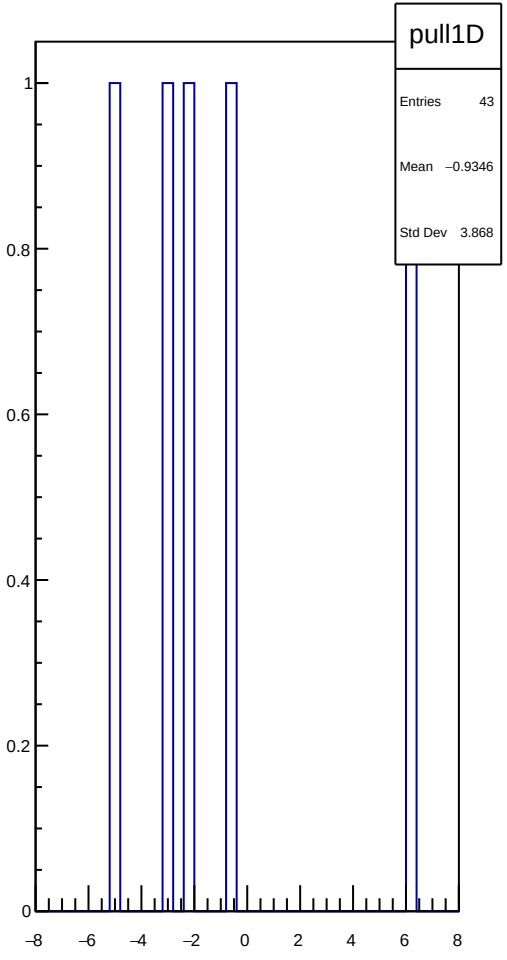

yield_bpm0i07X_mean vs run
χ² / ndf 1.648e+07 / 42
p0 −0.5002 ± 9.484e−06
−0.44
−0.46
−0.48
−0.5
−0.52
−0.54
−0.56
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 42.15
Std Dev 18.26
1000
500
0
−500
−1000
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

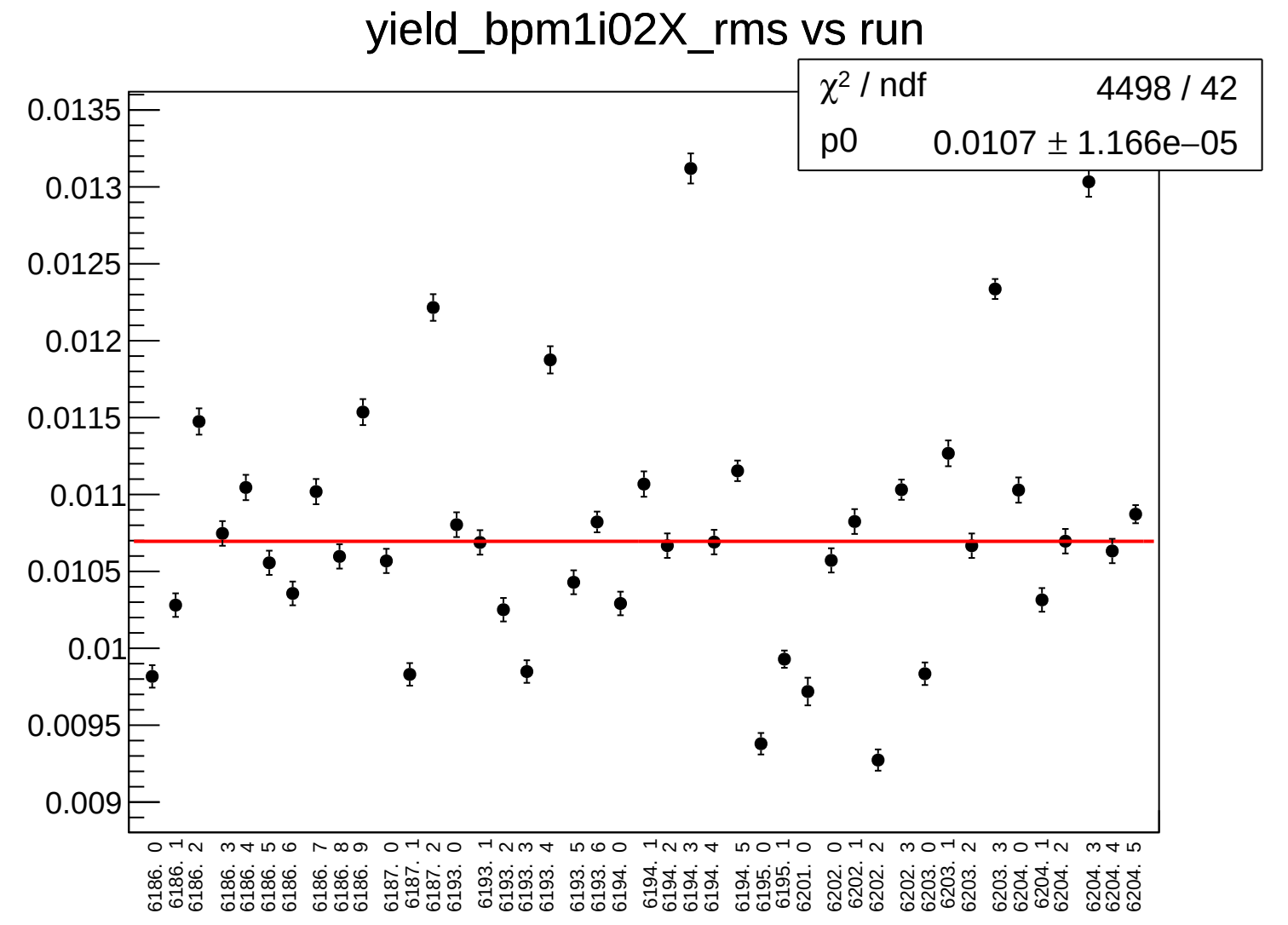

yield_bpm0i07X_rms vs run
χ² / ndf 1.21e+05 / 42
p0 0.005707 ± 6.706e−06
0.03
0.025
0.02
0.015
0.01
0.005
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

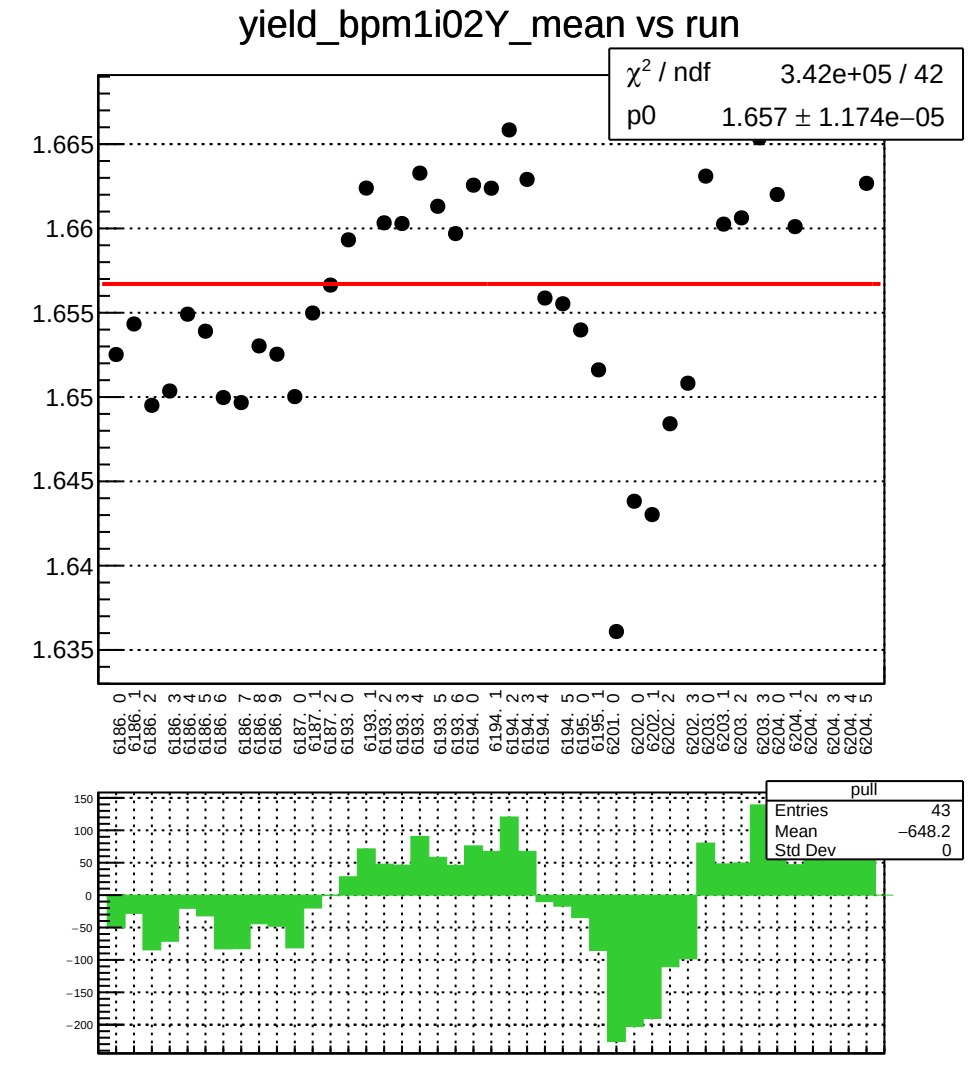

yield_bpm0i07Y_mean vs run
χ² / ndf 3.244e+06 / 42
p0 0.3309 ± 6.347e−06
0.36
0.35
0.34
0.33
0.32
0.31
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 342.1
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

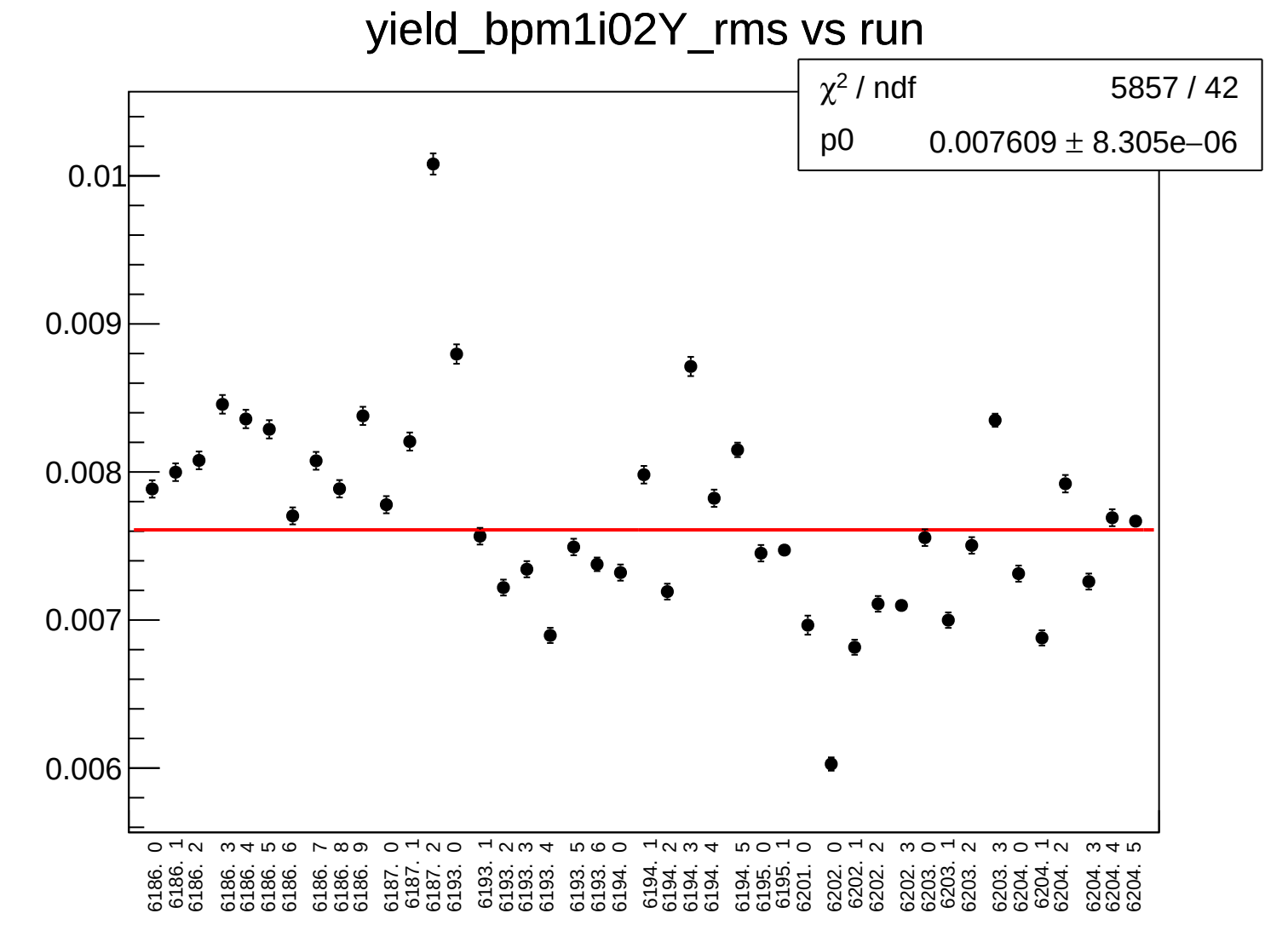

yield_bpm0i07Y_rms vs run
χ² / ndf 2.482e+04 / 42
p0 0.004065 ± 4.488e−06
0.008
0.007
0.006
0.005
0.004
0.003
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

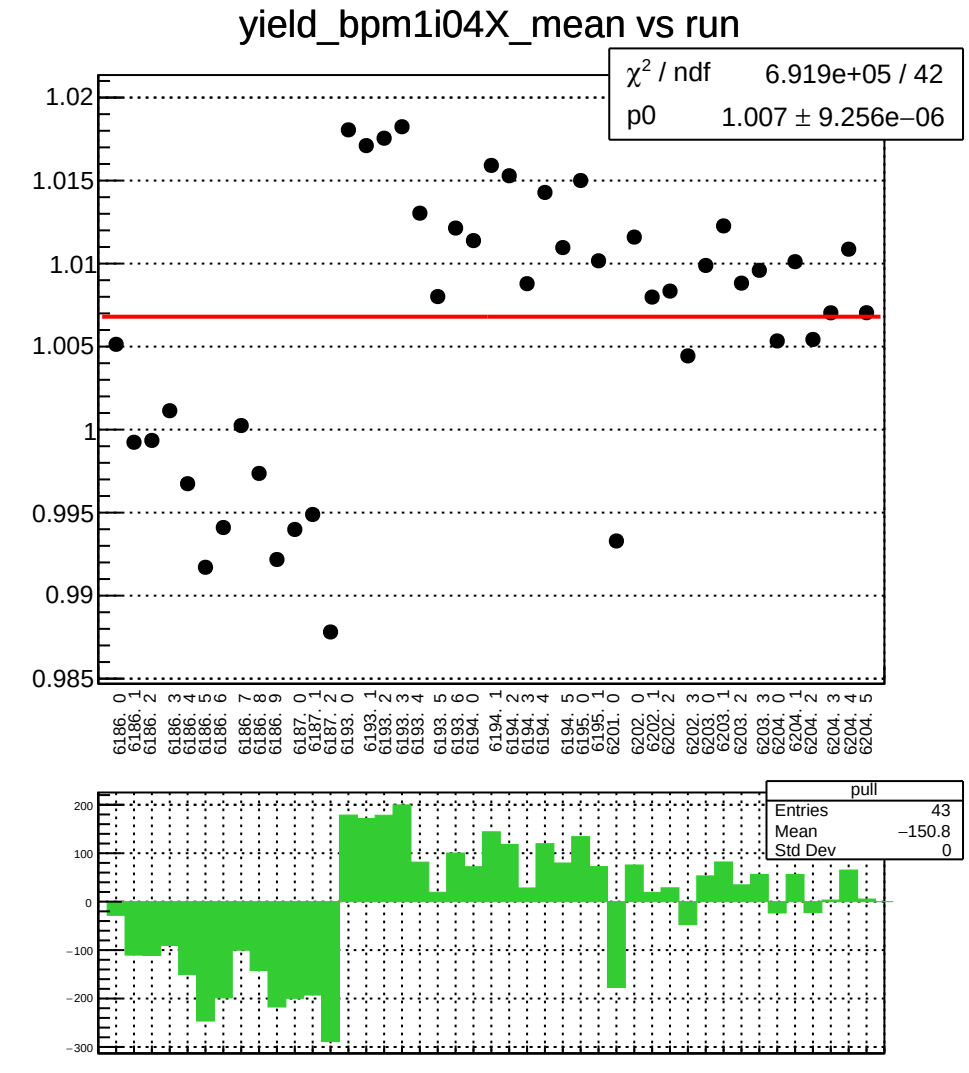

yield_bpm1i02X_mean vs run
χ² / ndf 2.248e+05 / 42
p0 0.001975 ± 1.65e−05
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −66.04
Std Dev 0
150
100
50
0
−50
−100
−150

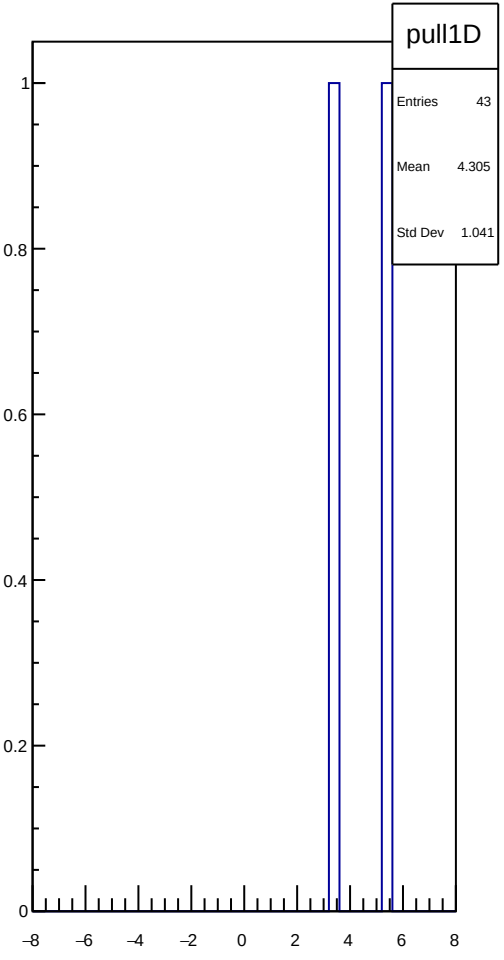

pull1D
Entries 43
Mean −0.9346
Std Dev 3.868
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

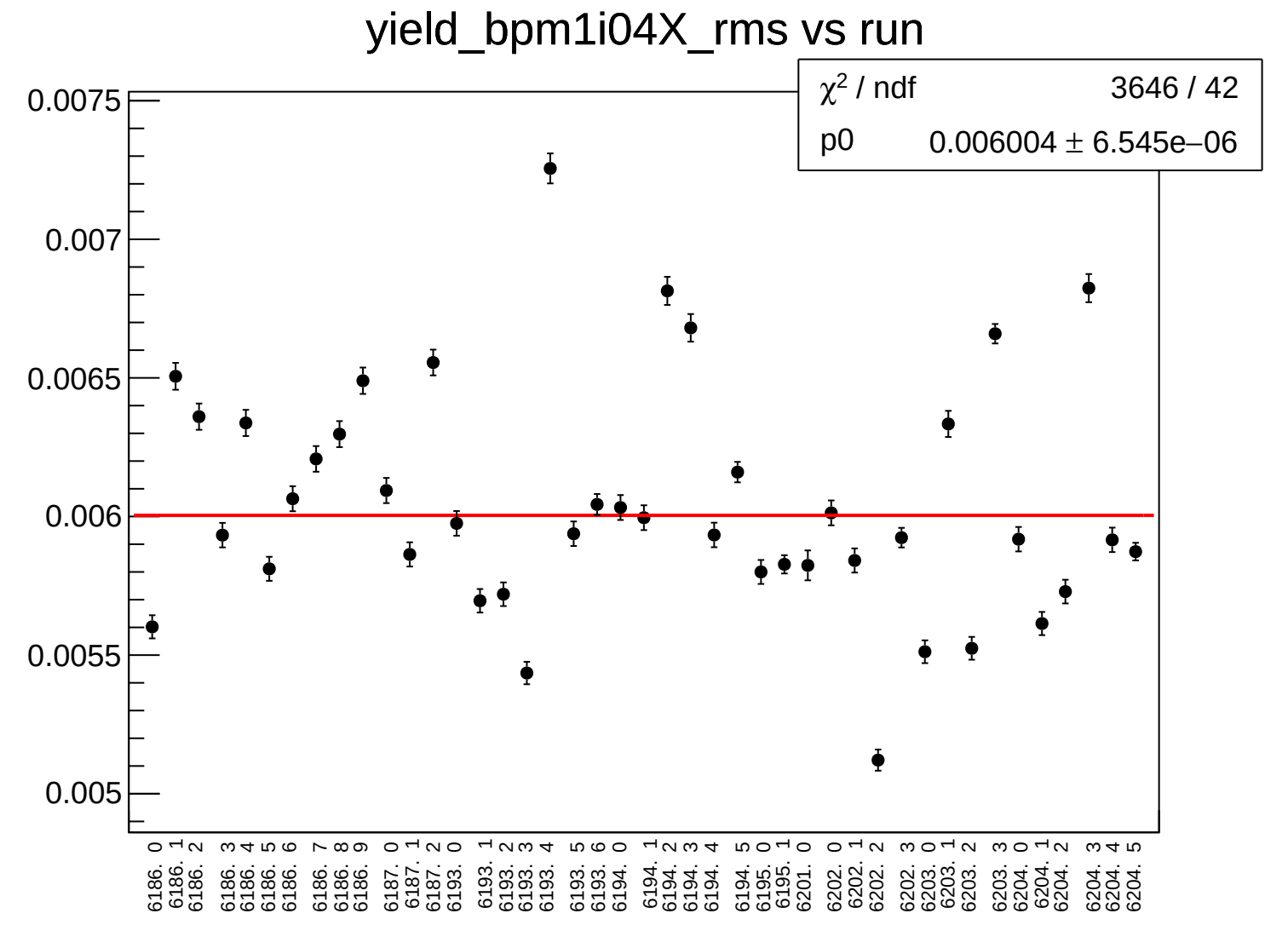

yield_bpm1i02X_rms vs run
χ² / ndf 4498 / 42
p0 0.0107 ± 1.166e−05
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

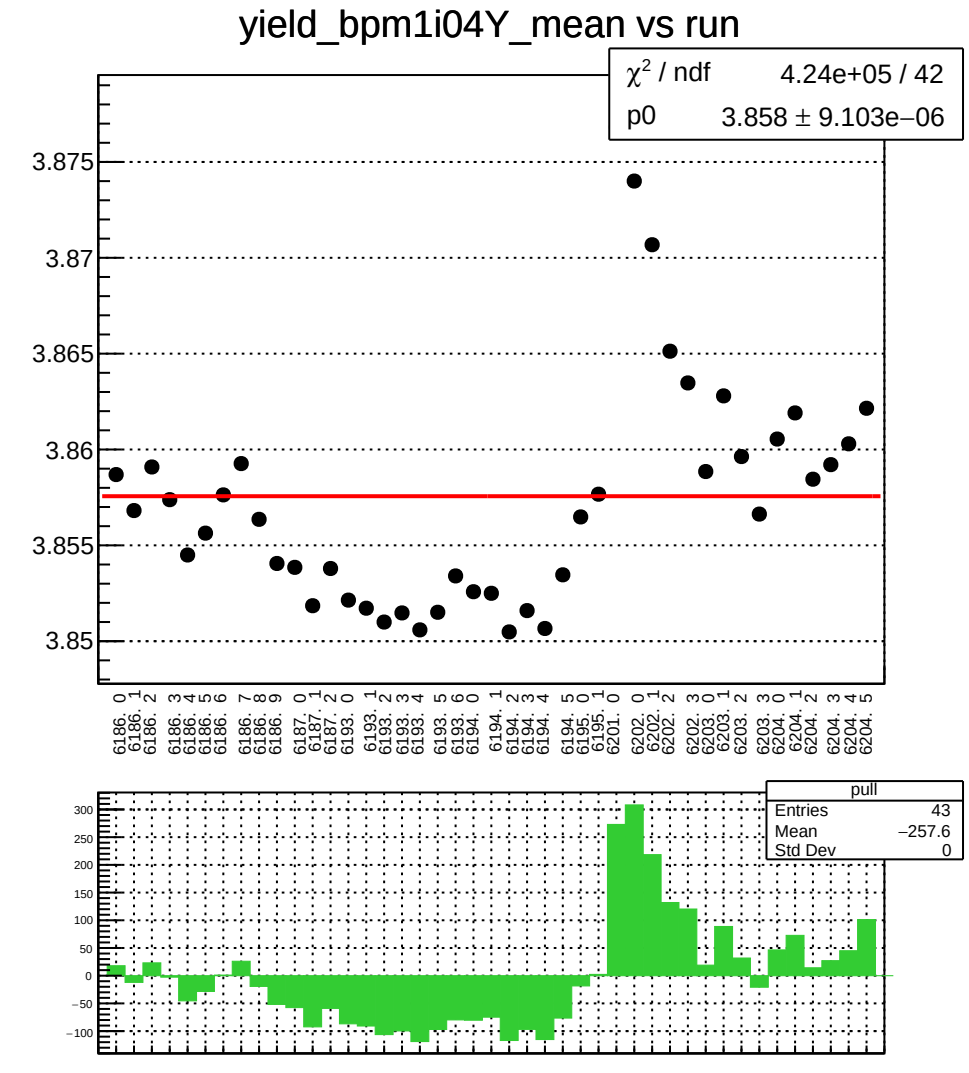

yield_bpm1i02Y_mean vs run
χ² / ndf 3.42e+05 / 42
p0 1.657 ± 1.174e−05
1.665
1.66
1.655
1.65
1.645
1.64
1.635
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −648.2
Std Dev 0
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 43
Mean −0.6485
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

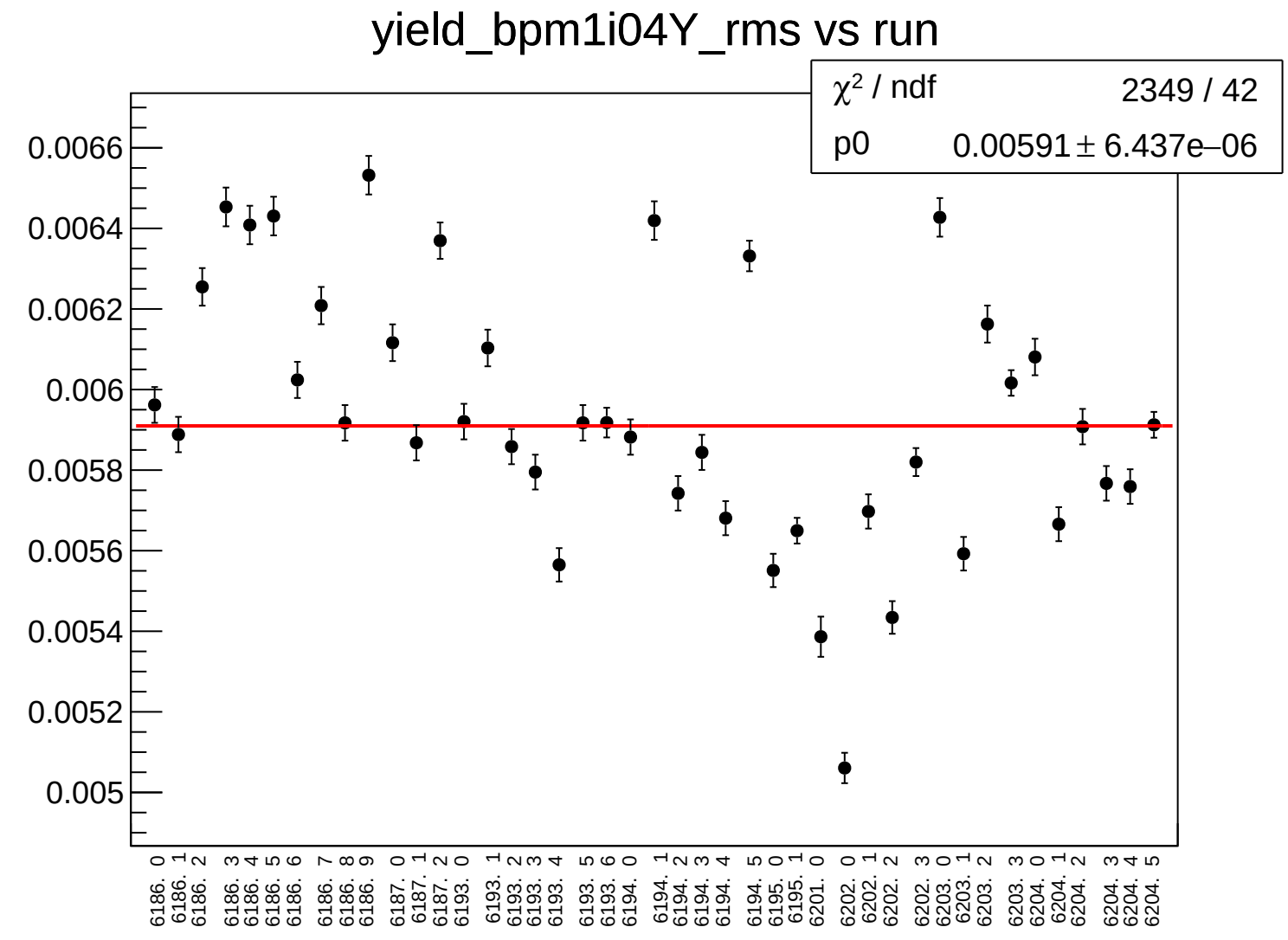

yield_bpm1i02Y_rms vs run
χ² / ndf 5857 / 42
p0 0.007609 ± 8.305e−06
0.01
0.009
0.008
0.007
0.006
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

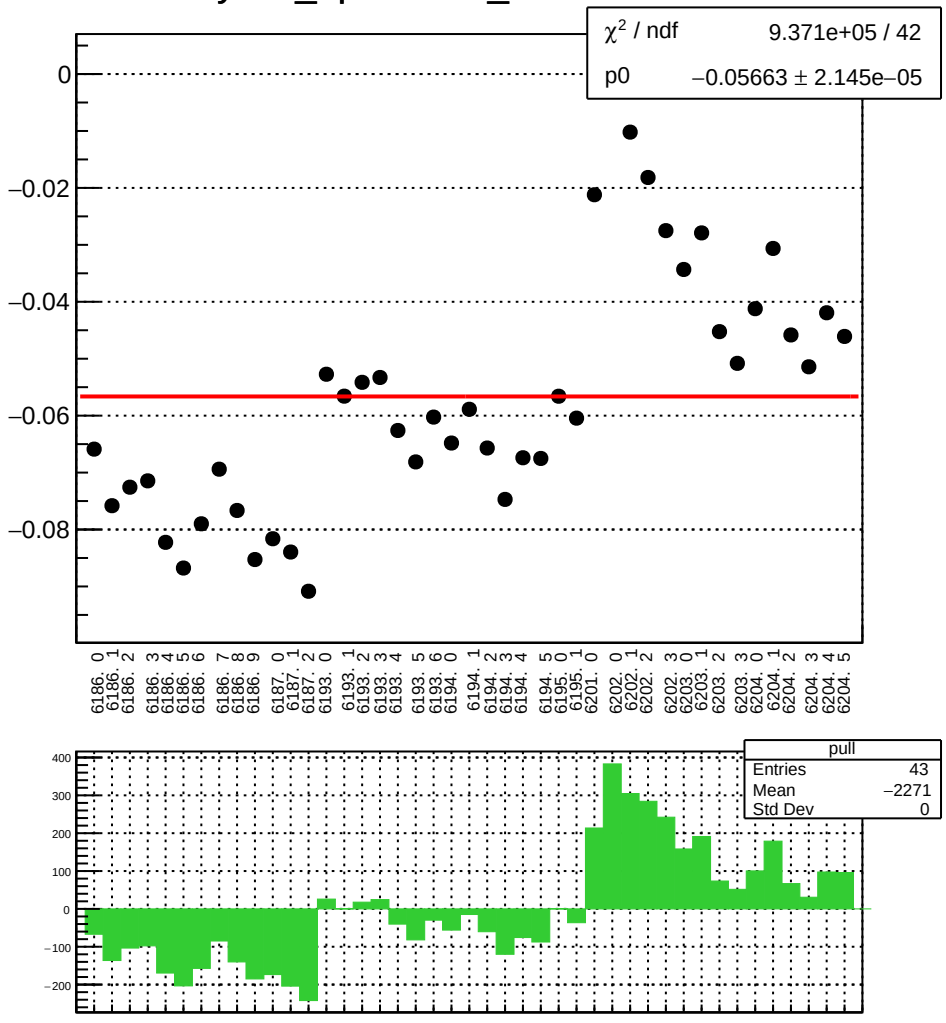

yield_bpm1i04X_mean vs run
χ² / ndf 6.919e+05 / 42
p0 1.007 ± 9.256e−06
1.02
1.015
1.01
1.005
1
0.995
0.99
0.985
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −150.8
Std Dev 0
200
100
0
−100
−200
−300

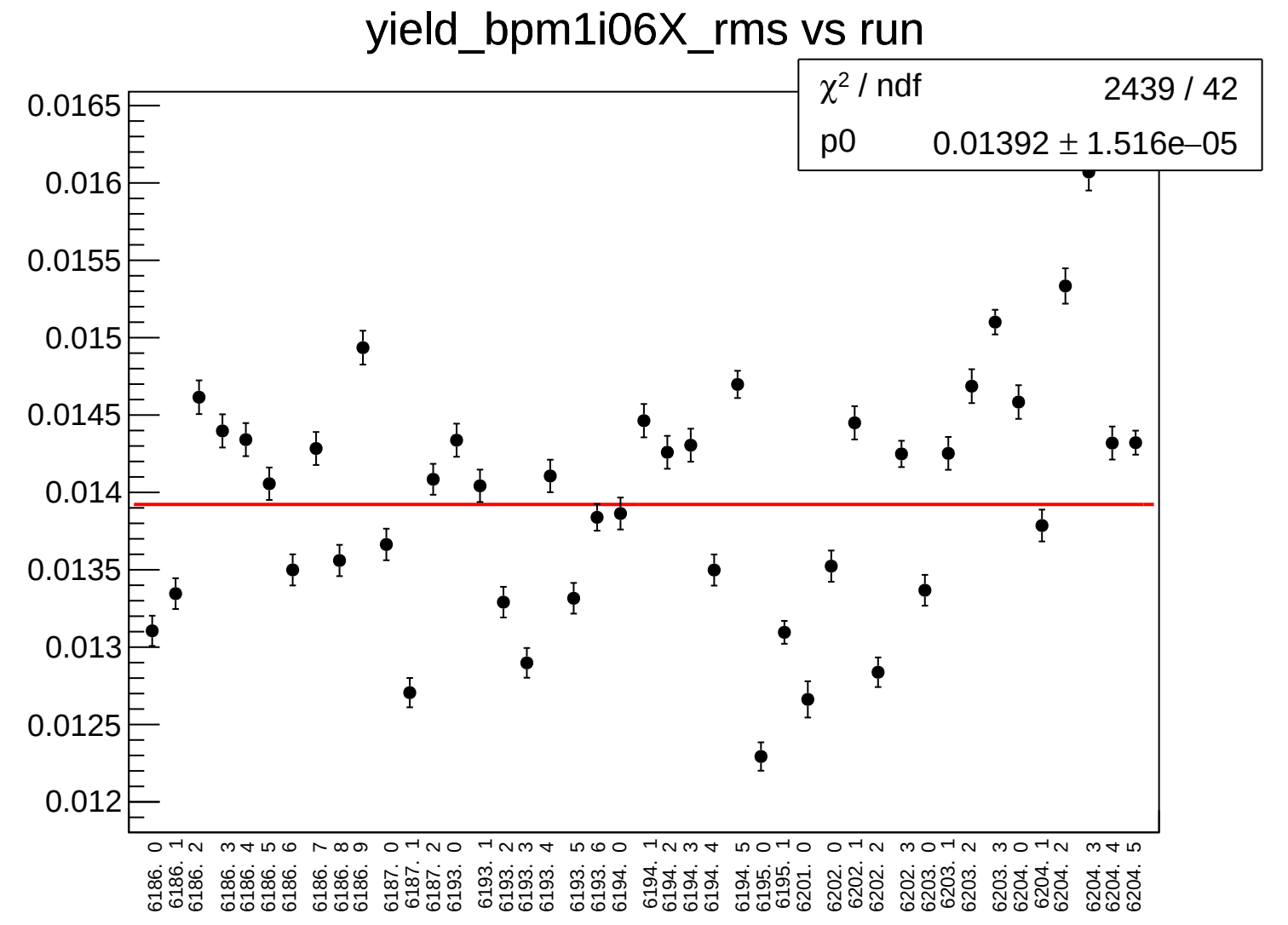

pull1D
Entries 43
Mean 4.305
Std Dev 1.041
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

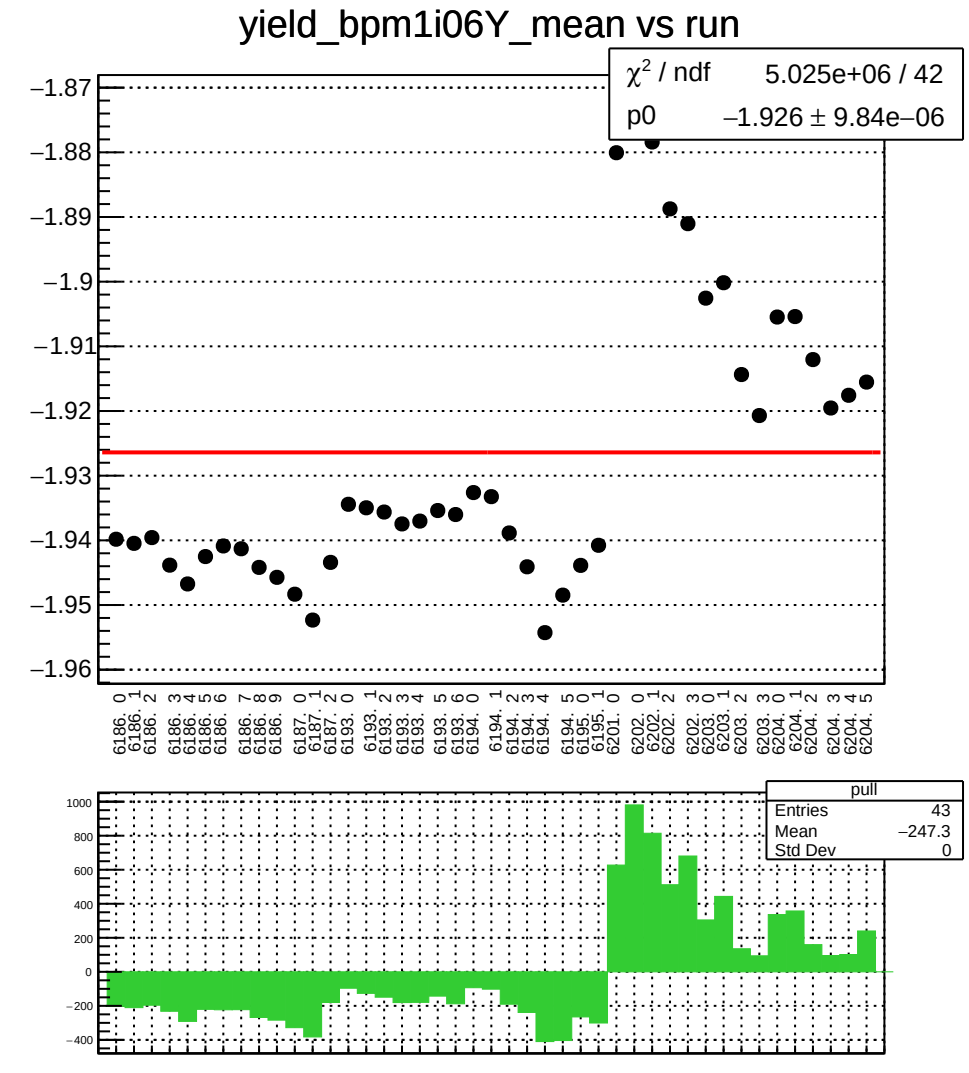

yield_bpm1i04X_rms vs run
χ² / ndf 3646 / 42
p0 0.006004 ± 6.545e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

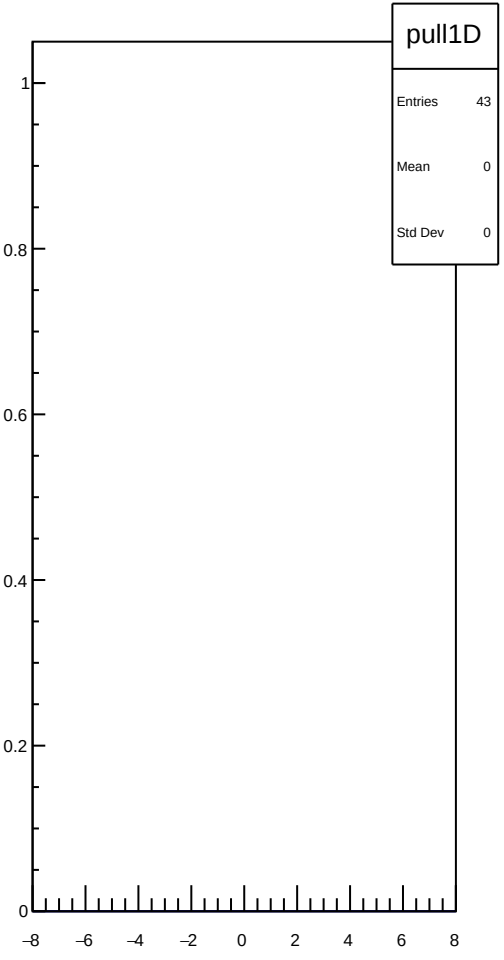

yield_bpm1i04Y_mean vs run
χ² / ndf 4.24e+05 / 42
p0 3.858 ± 9.103e−06
3.875
3.87
3.865
3.86
3.855
3.85
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −257.6
Std Dev 0
300
250
200
150
100
50
0
−50
−100
pull1D
Entries 43
Mean 0.2572
Std Dev 2.11
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

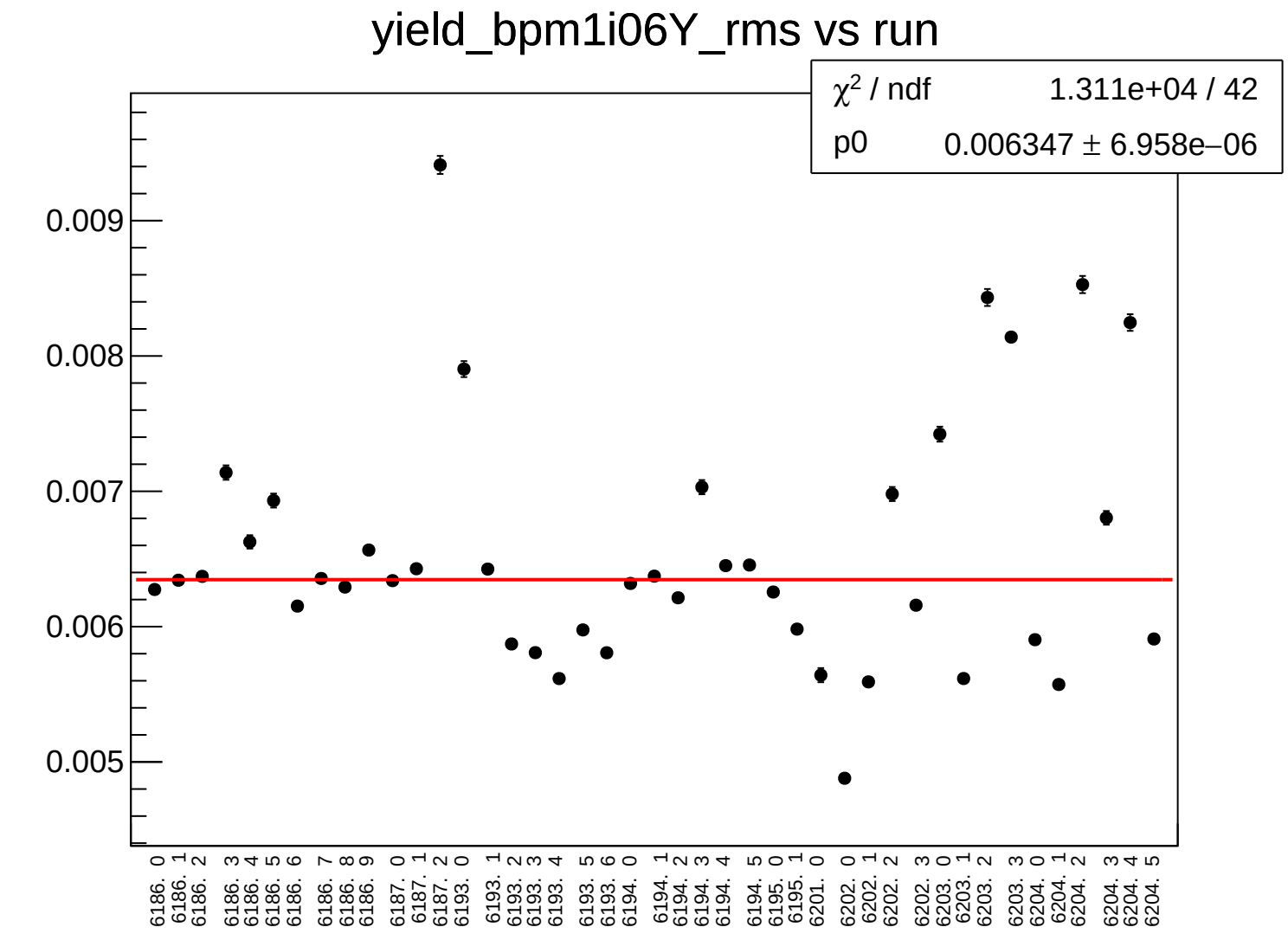

yield_bpm1i04Y_rms vs run
χ² / ndf 2349 / 42
p0 0.00591 ± 6.437e–06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

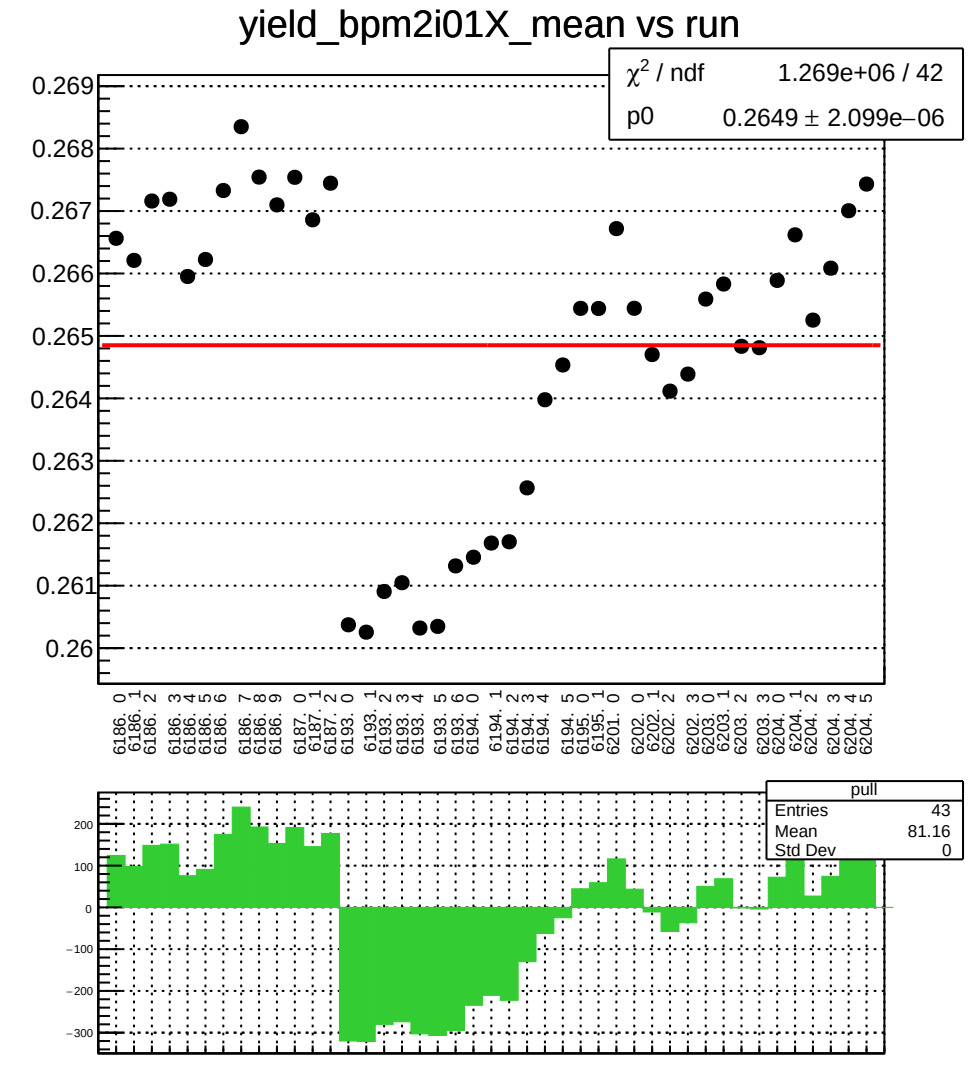

yield_bpm1i06X_mean vs run
χ² / ndf 9.371e+05 / 42
p0 −0.05663 ± 2.145e−05
0
−0.02
−0.04
−0.06
−0.08
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −2271
Std Dev 0
400
300
200
100
0
−100
−200
pull1D
Entries 43
Mean 0.3462
Std Dev 0.01877
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

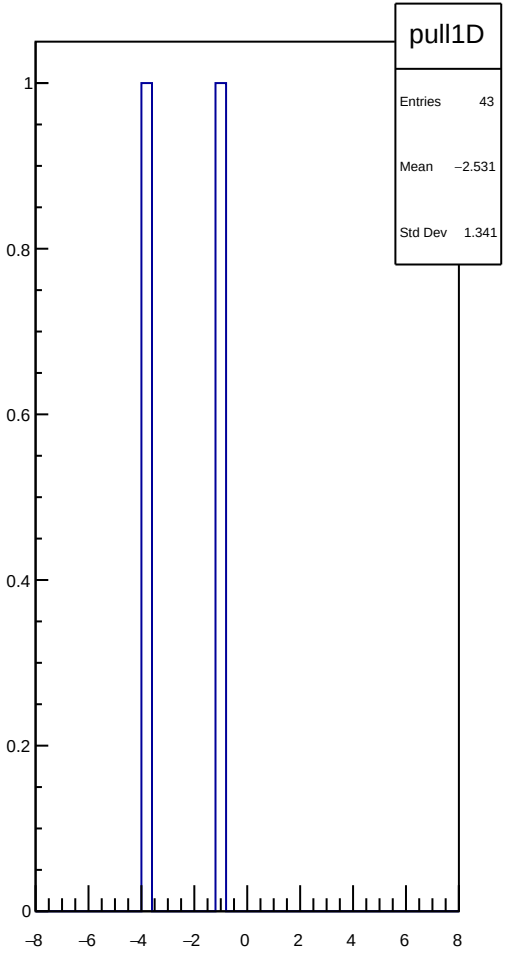

yield_bpm1i06X_rms vs run
χ² / ndf 2439 / 42
p0 0.01392 ± 1.516e−05
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

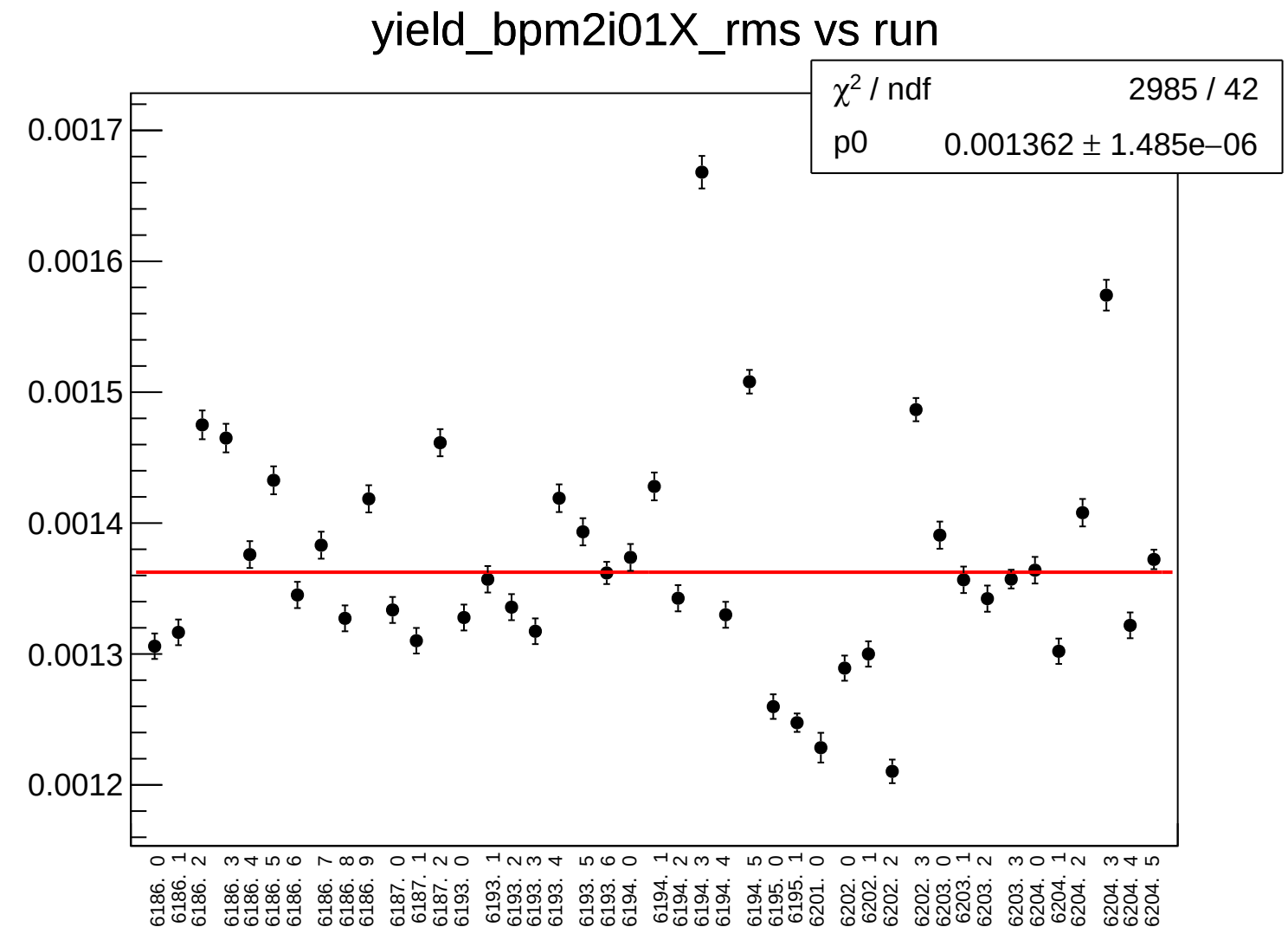

yield_bpm1i06Y_mean vs run
χ² / ndf 5.025e+06 / 42
p0 –1.926 ± 9.84e–06
–1.87
–1.88
–1.89
–1.9
–1.91
–1.92
–1.93
–1.94
–1.95
–1.96
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean –247.3
Std Dev 0
1000
800
600
400
200
0
–200
–400

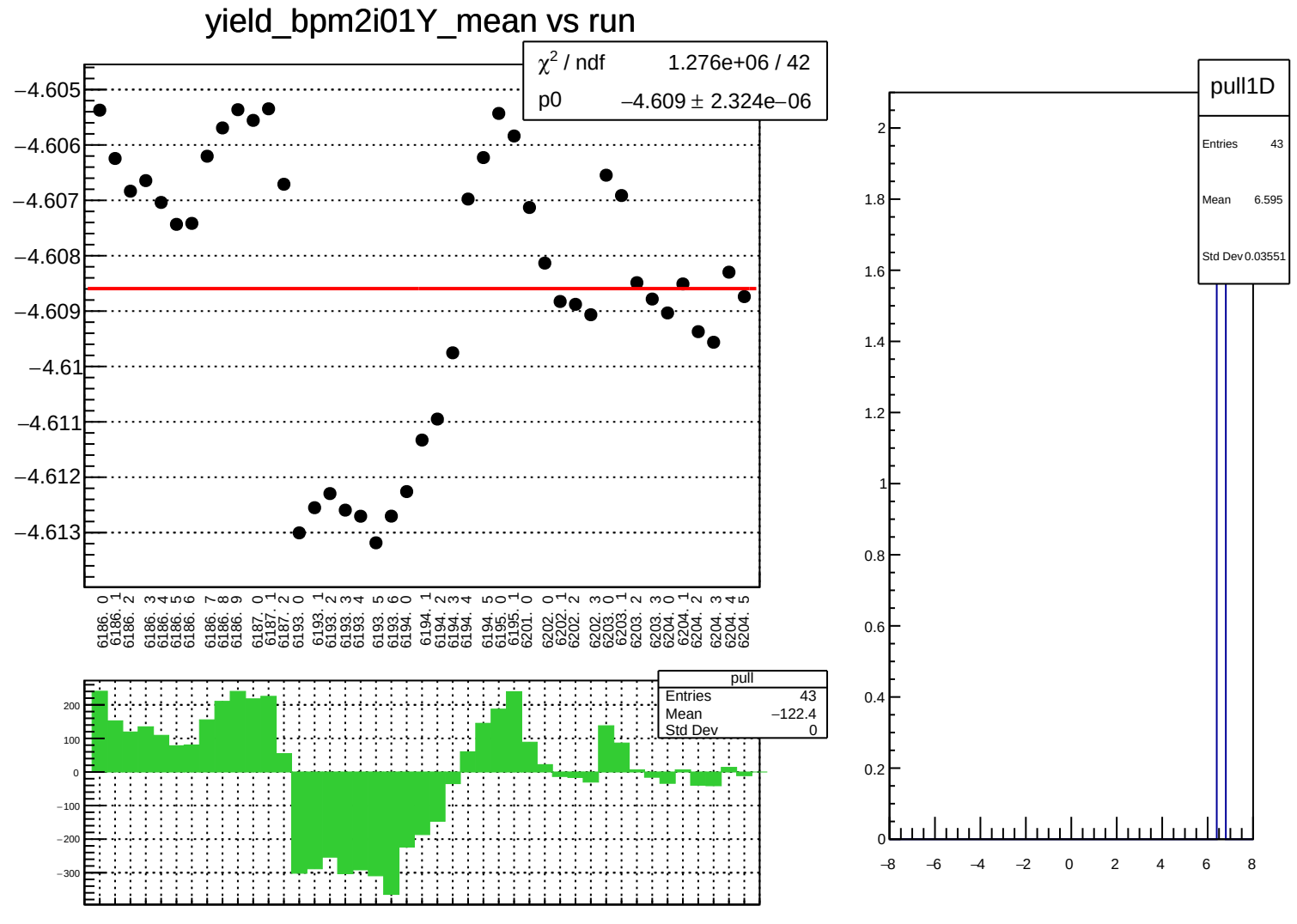

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

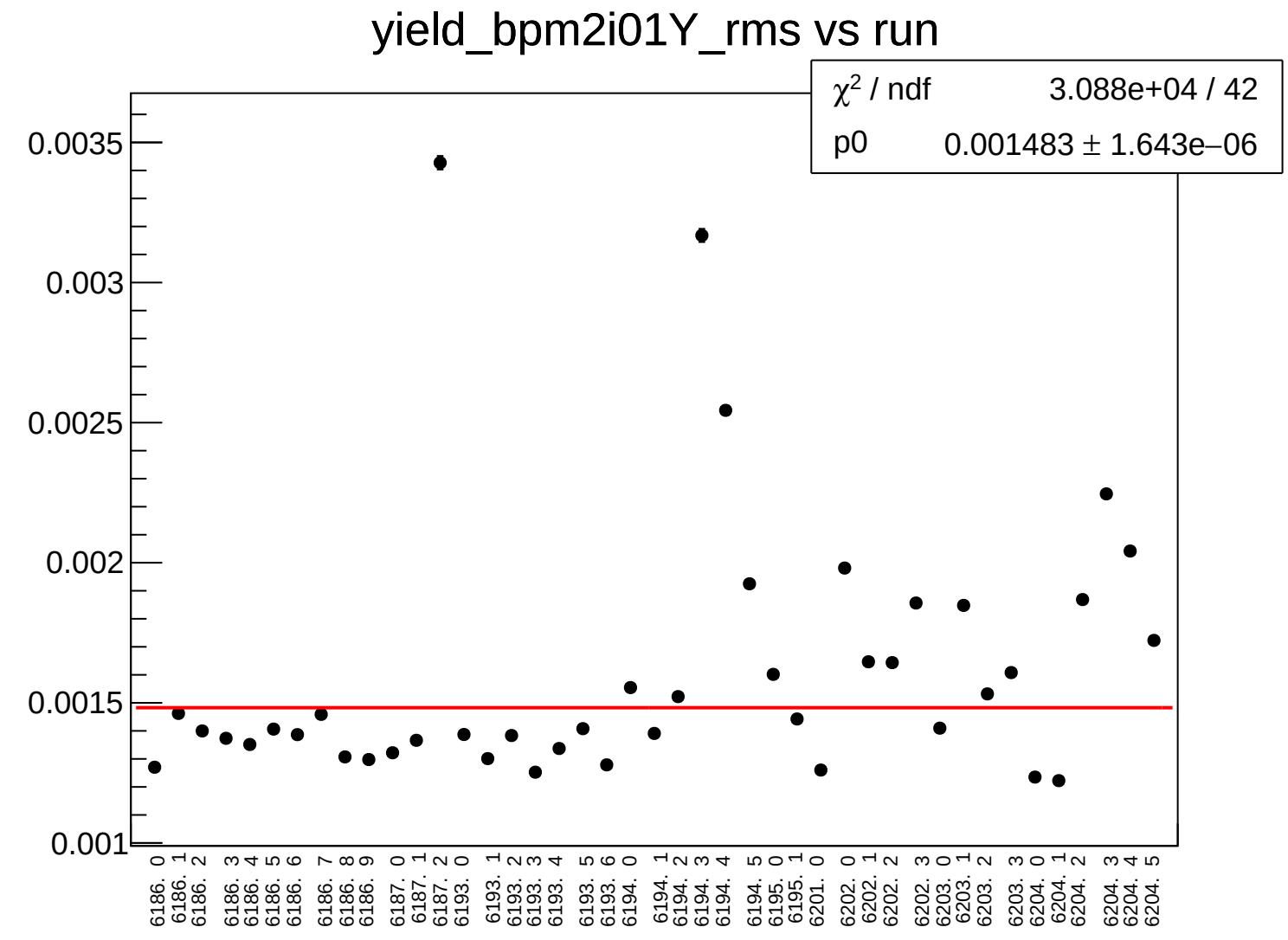

yield_bpm1i06Y_rms vs run
χ² / ndf 1.311e+04 / 42
p0 0.006347 ± 6.958e−06
0.009
0.008
0.007
0.006
0.005
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

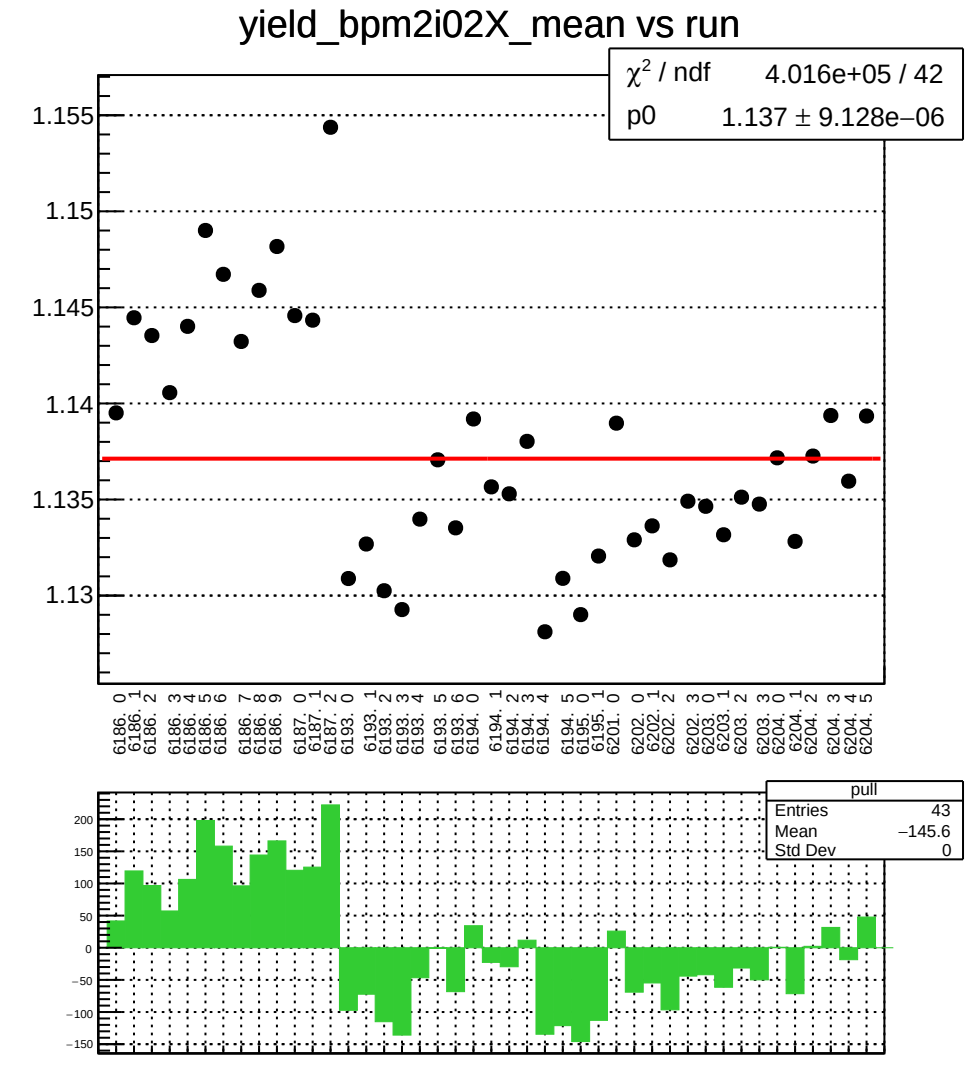

yield_bpm2i01X_mean vs run
χ² / ndf 1.269e+06 / 42
p0 0.2649 ± 2.099e−06
0.269
0.268
0.267
0.266
0.265
0.264
0.263
0.262
0.261
0.26
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 81.16
Std Dev 0
200
100
0
−100
−200
−300

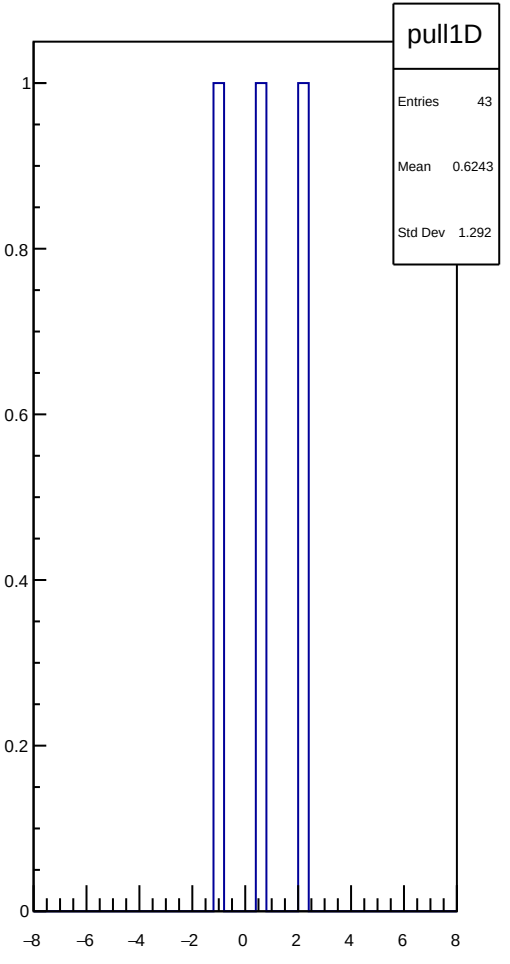

pull1D
Entries 43
Mean −2.531
Std Dev 1.341
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

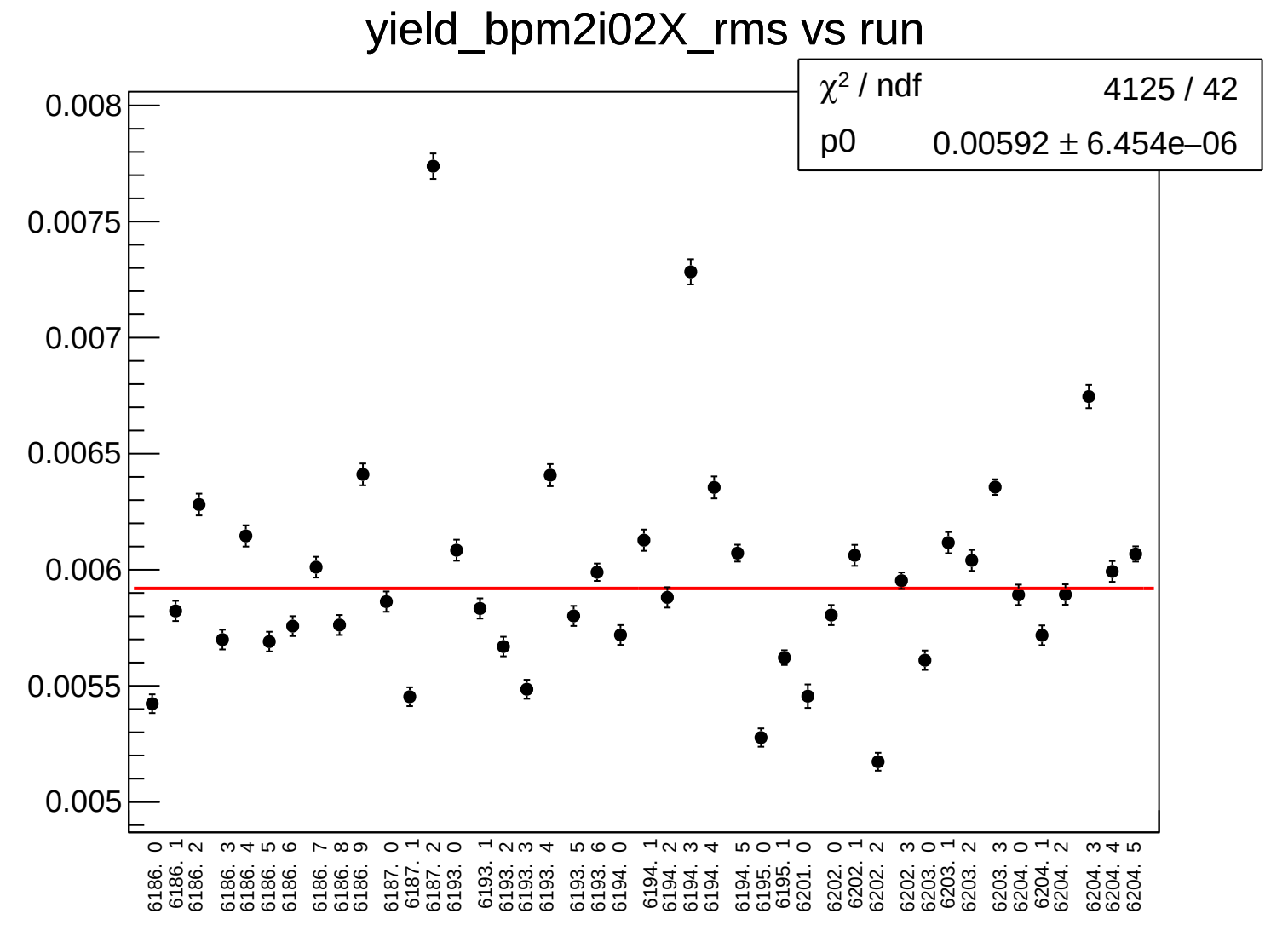

yield_bpm2i01X_rms vs run
χ² / ndf 2985 / 42
p0 0.001362 ± 1.485e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

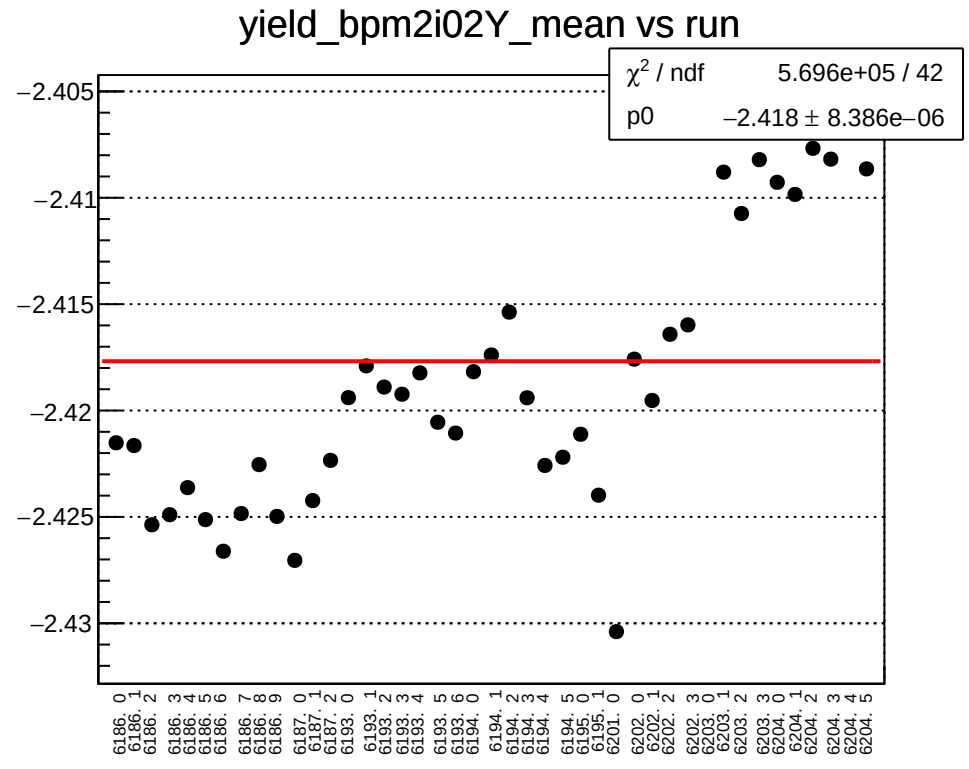

yield_bpm2i01Y_mean vs run
χ² / ndf 1.276e+06 / 42
p0 −4.609 ± 2.324e−06
−4.605
−4.606
−4.607
−4.608
−4.609
−4.61
−4.611
−4.612
−4.613
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −122.4
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 43
Mean 6.595
Std Dev 0.03551
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

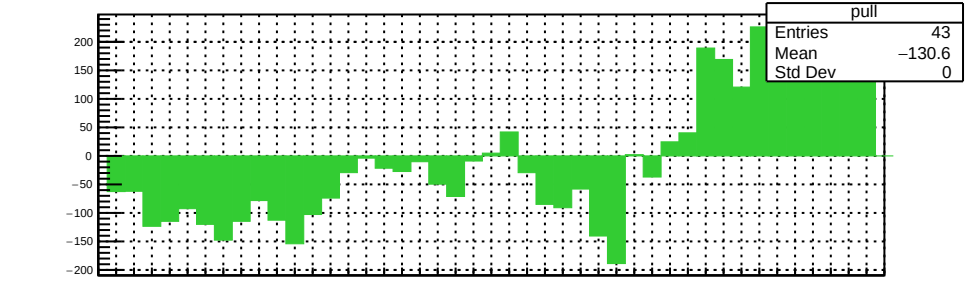

yield_bpm2i01Y_rms vs run
χ² / ndf 3.088e+04 / 42
p0 0.001483 ± 1.643e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

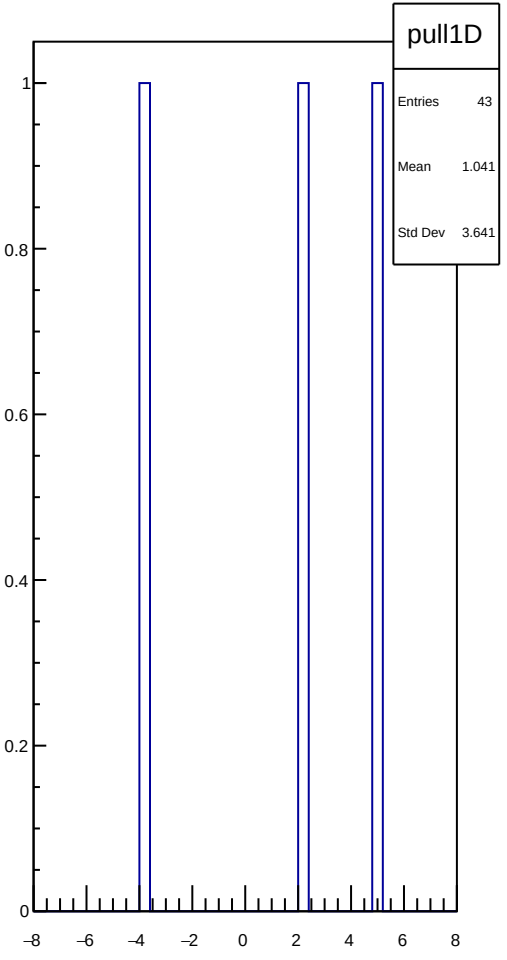

yield_bpm2i02X_mean vs run
χ² / ndf 4.016e+05 / 42
p0 1.137 ± 9.128e−06
1.155
1.15
1.145
1.14
1.135
1.13
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −145.6
Std Dev 0
200
150
100
50
0
−50
−100
−150

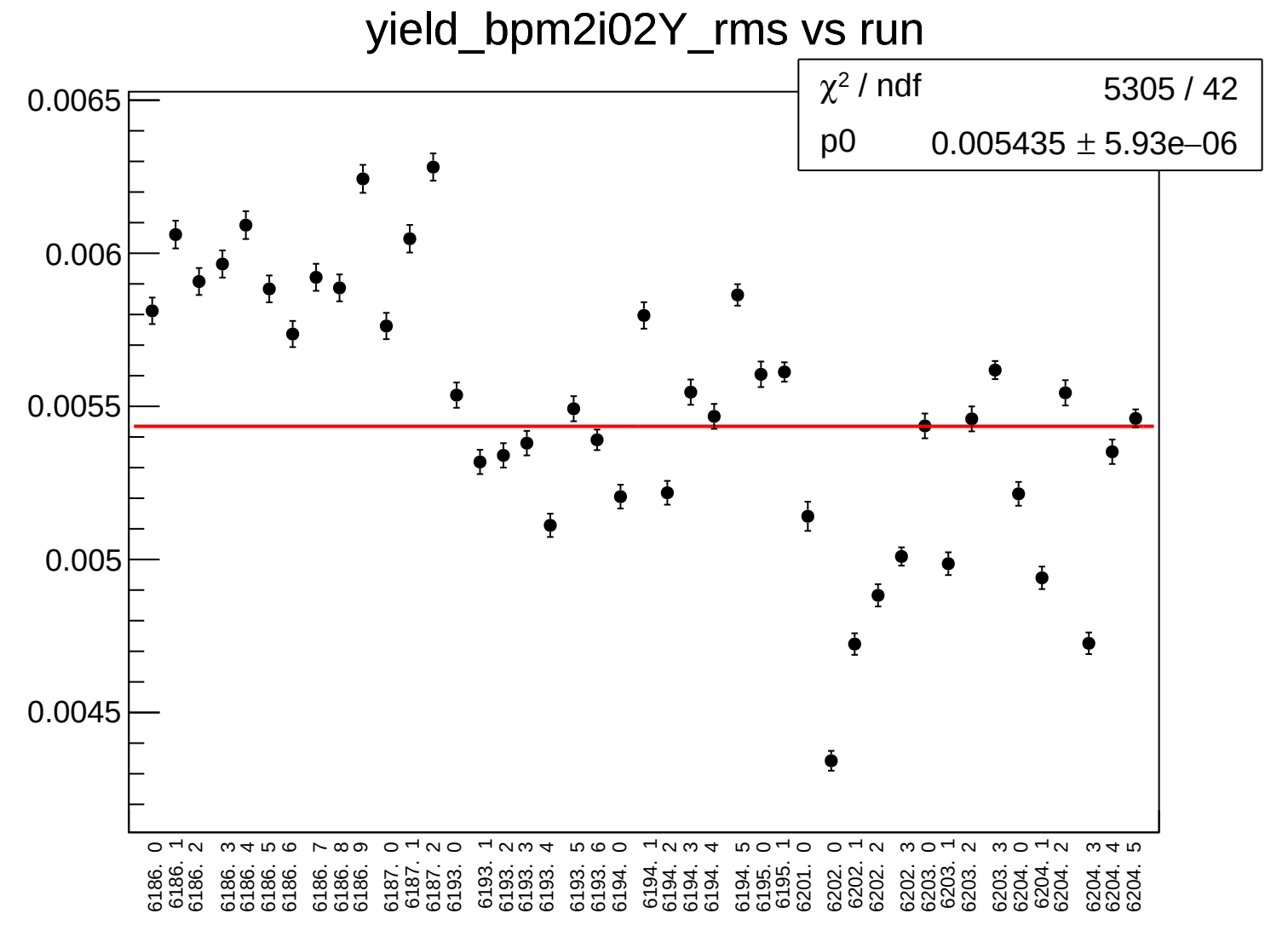

pull1D
Entries 43
Mean 0.6243
Std Dev 1.292
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

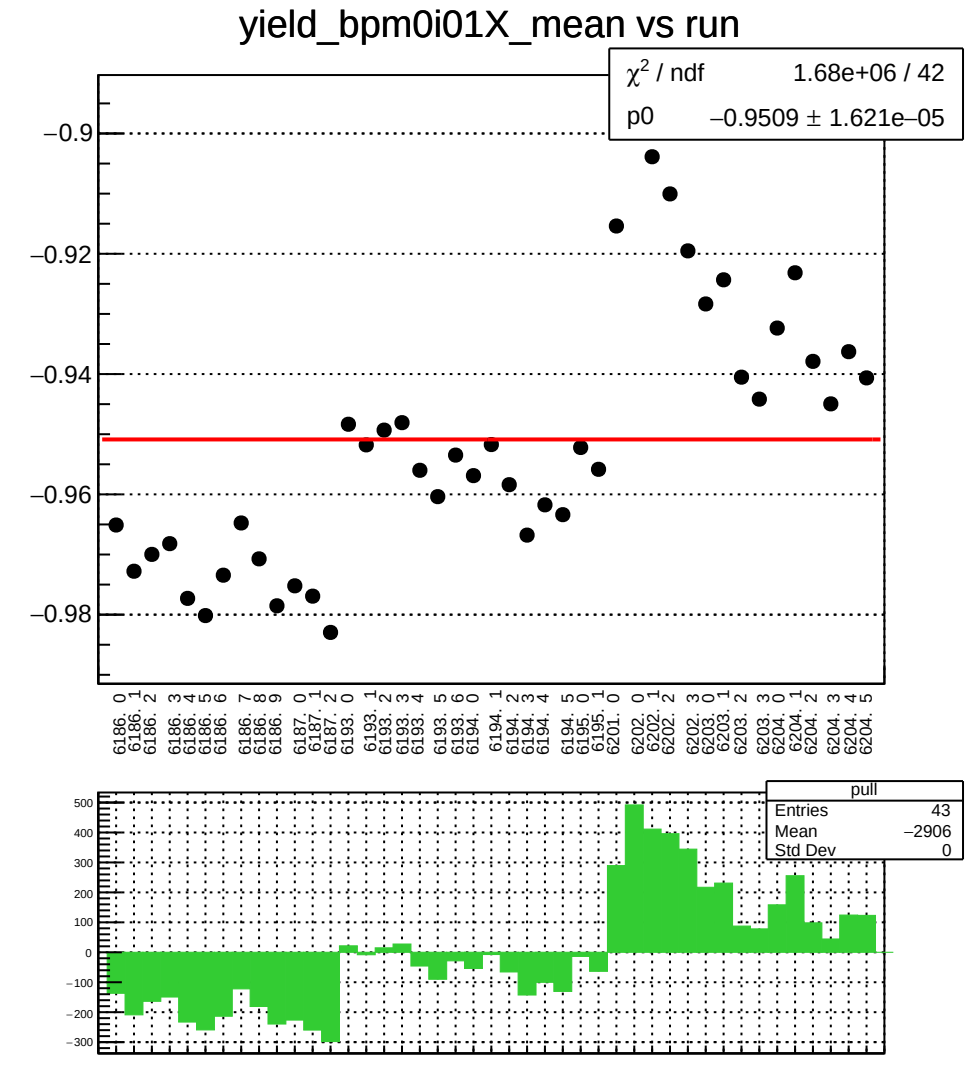

yield_bpm2i02X_rms vs run
χ² / ndf 4125 / 42
p0 0.00592 ± 6.454e–06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

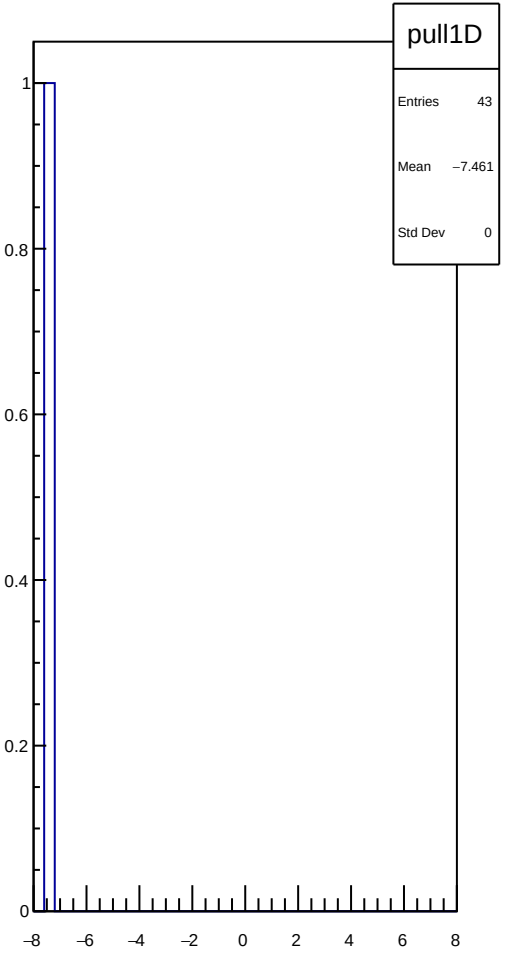

yield_bpm2i02Y_mean vs run
χ² / ndf 5.696e+05 / 42
p0 −2.418 ± 8.386e−06
−2.405
−2.41
−2.415
−2.42
−2.425
−2.43
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

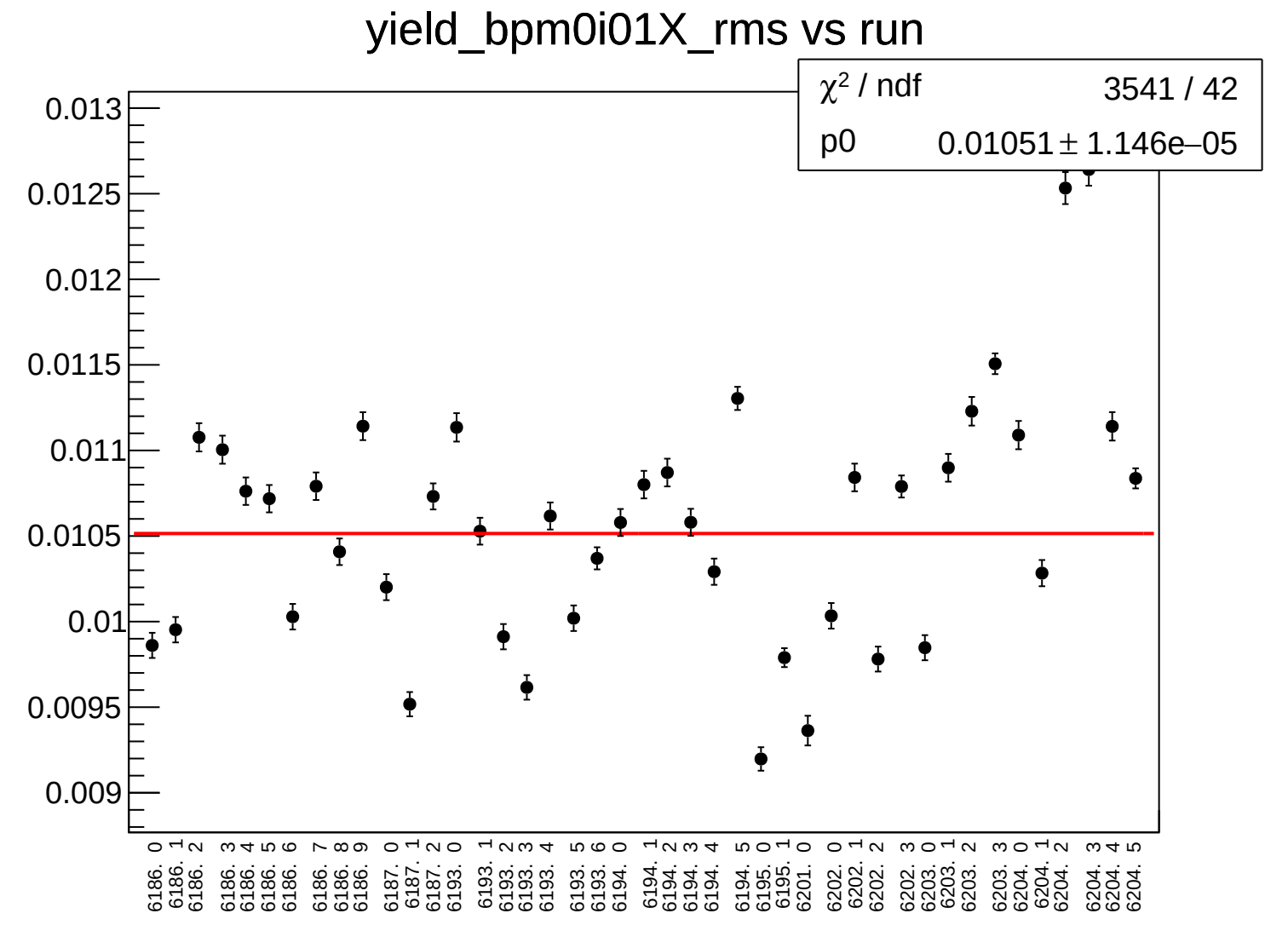

pull
Entries 43
Mean −130.6
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

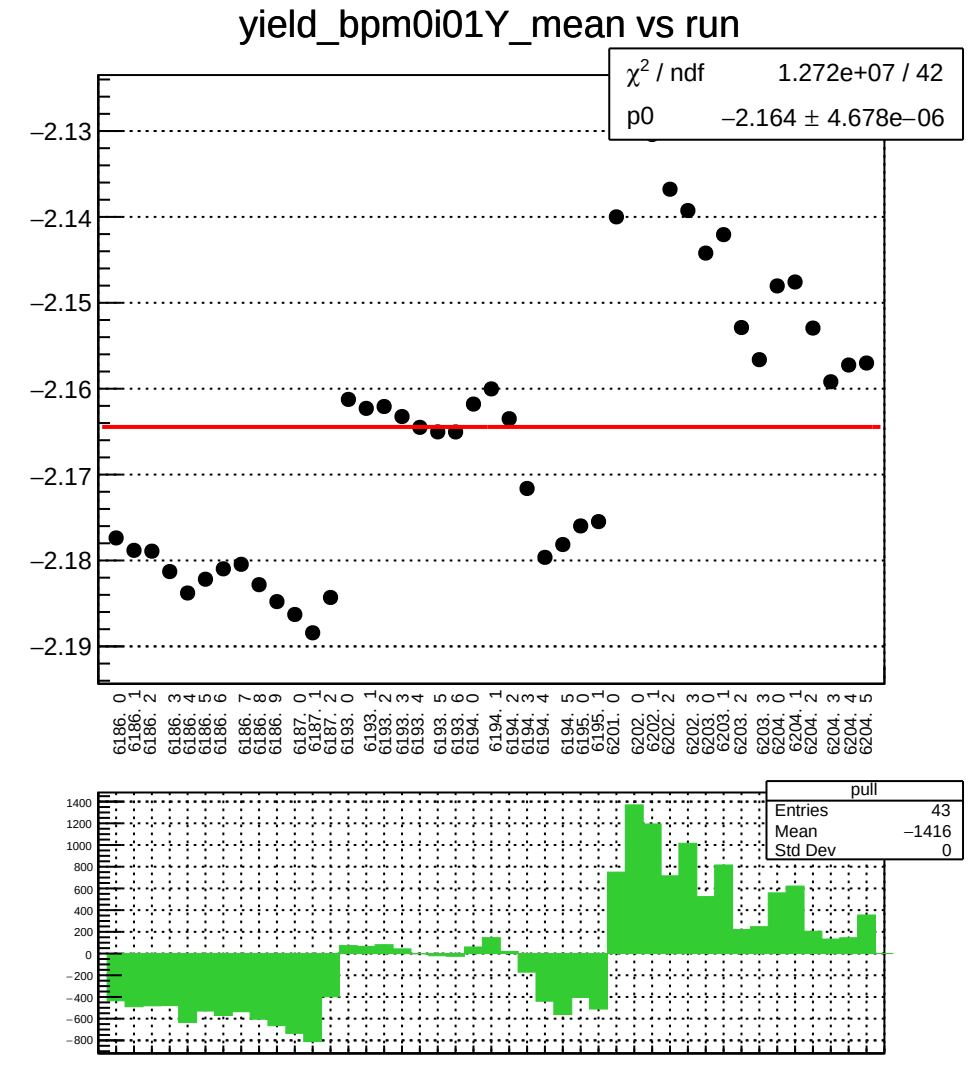

pull1D
Entries 43
Mean 1.041
Std Dev 3.641
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

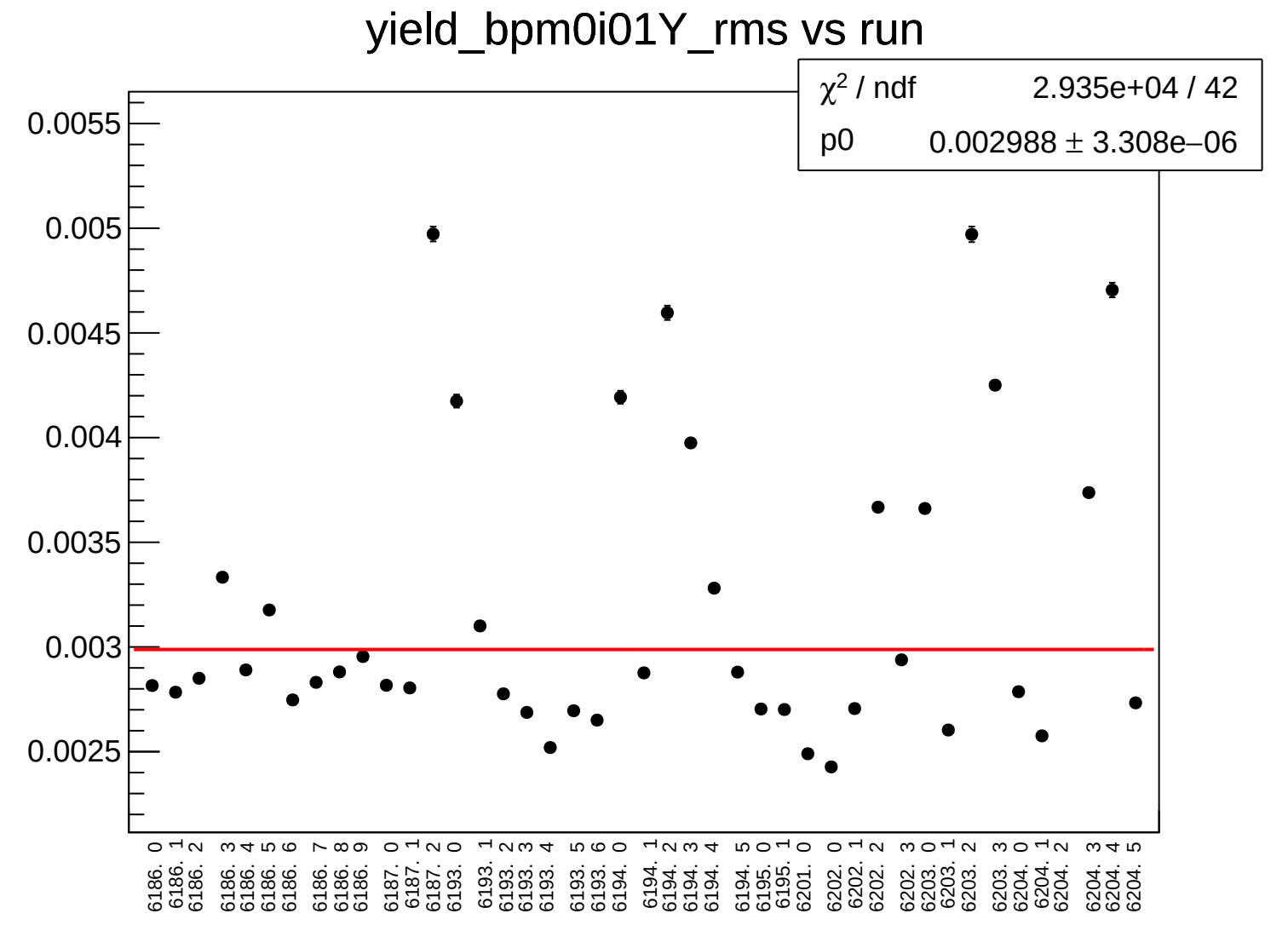

yield_bpm2i02Y_rms vs run
χ² / ndf 5305 / 42
p0 0.005435 ± 5.93e–06
0.0065
0.006
0.0055
0.005
0.0045
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

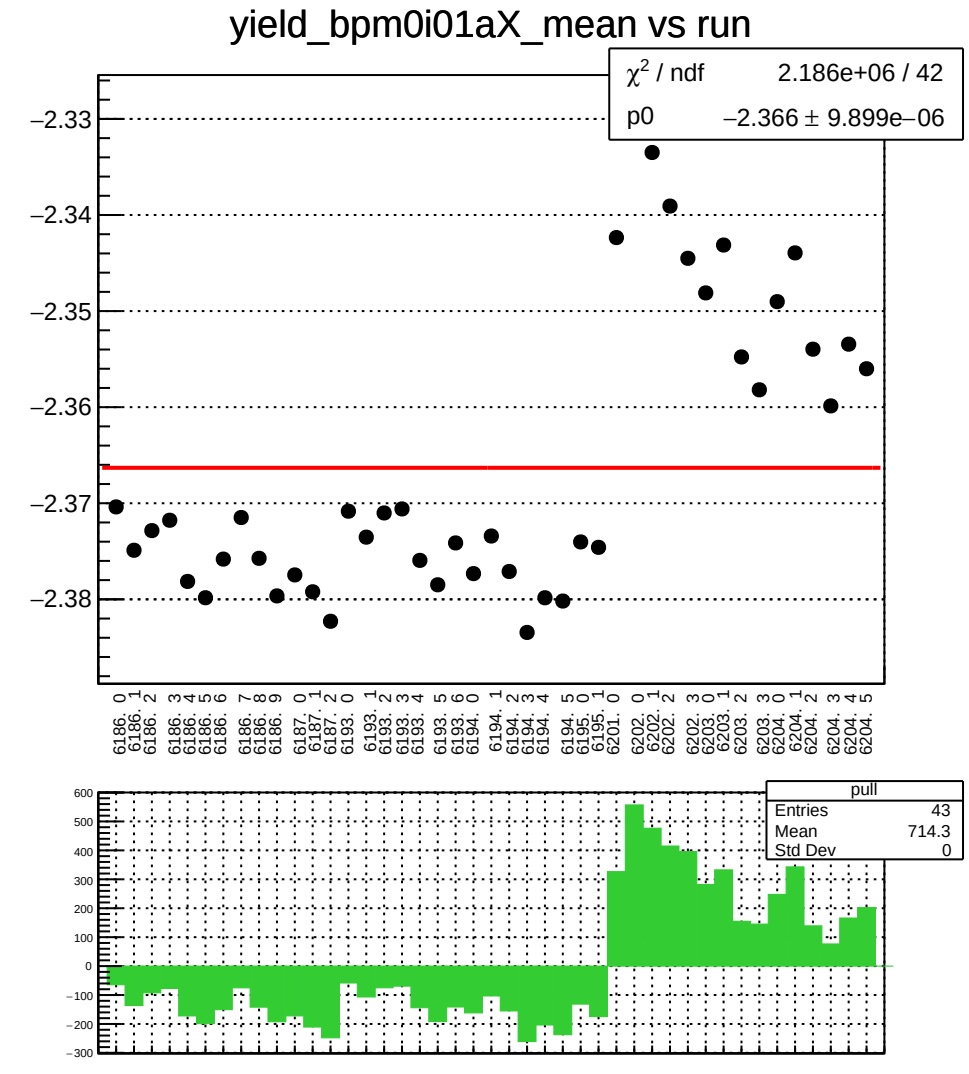

yield_bpm0i01X_mean vs run
χ² / ndf 1.68e+06 / 42
p0 −0.9509 ± 1.621e−05
−0.9
−0.92
−0.94
−0.96
−0.98
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −2906
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

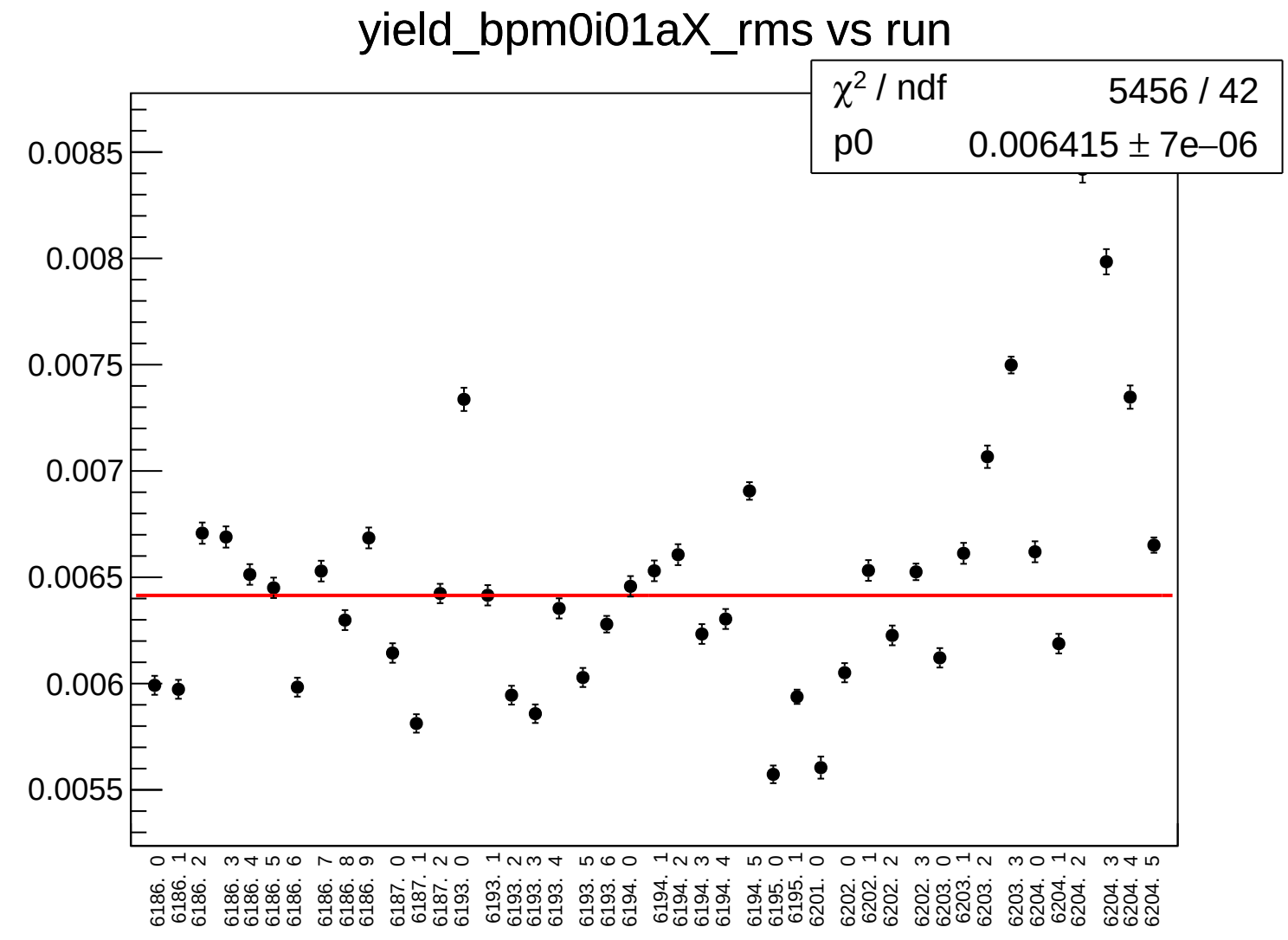

pull1D
Entries 43
Mean −7.461
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

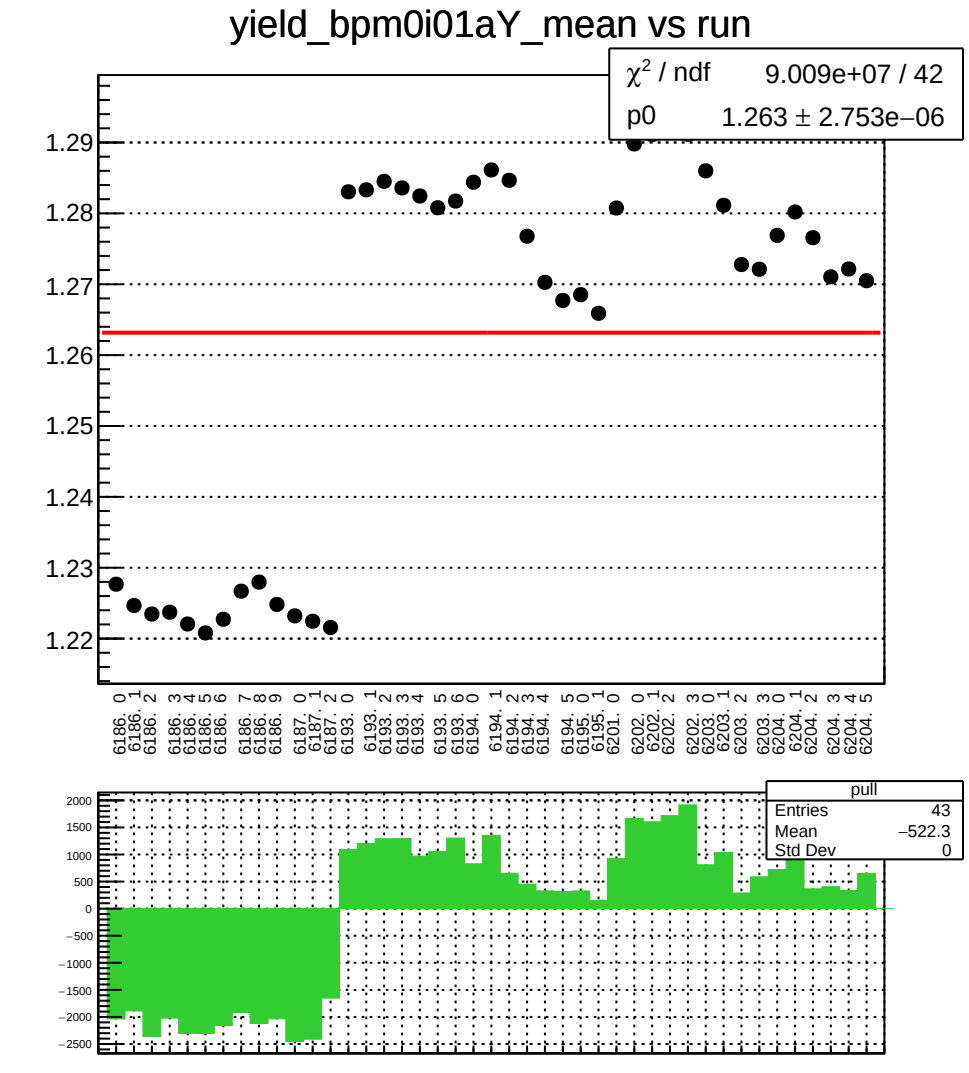

yield_bpm0i01X_rms vs run
χ² / ndf 3541 / 42
p0 0.01051 ± 1.146e–05
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

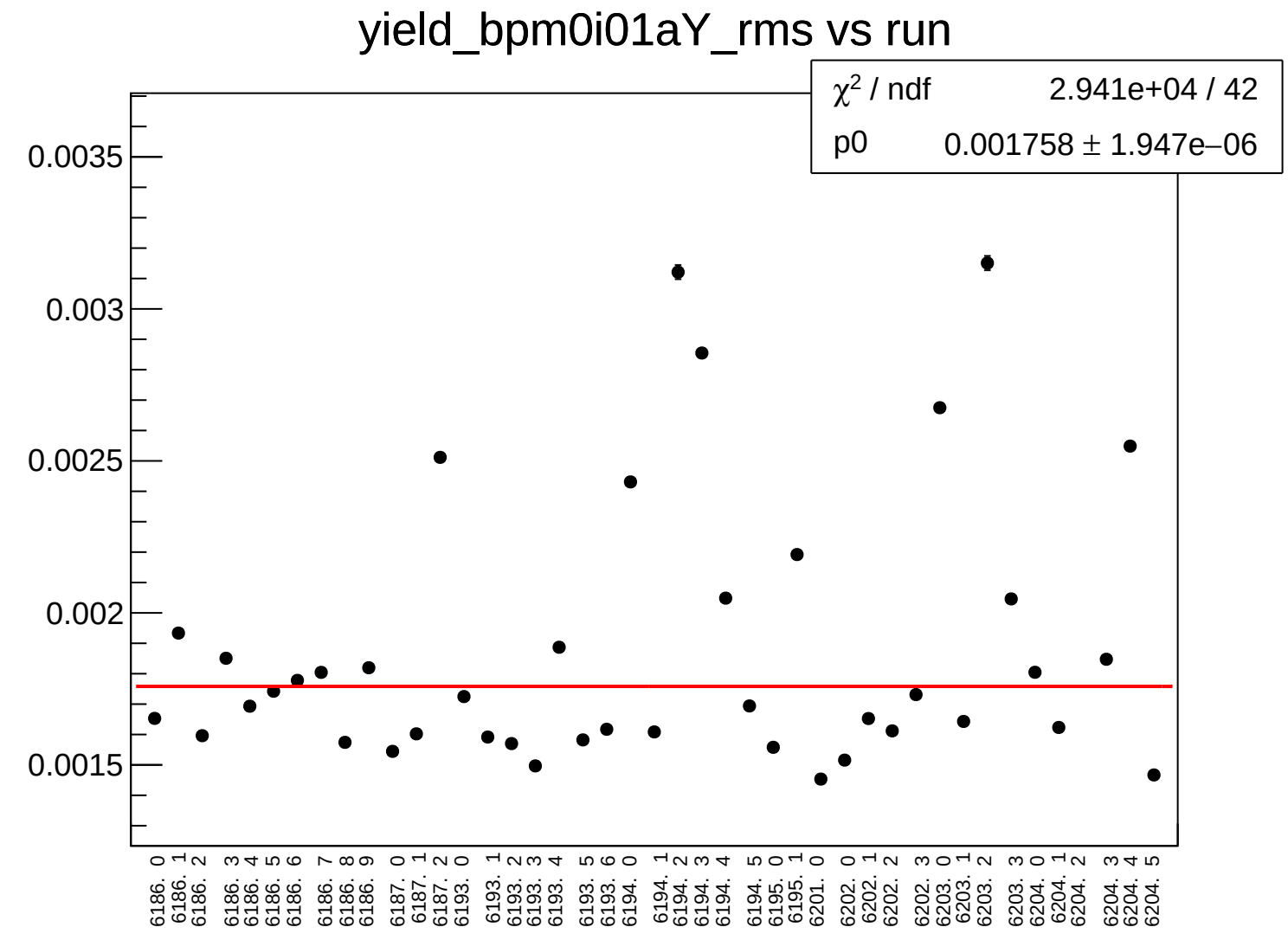

yield_bpm0i01Y_mean vs run
χ² / ndf 1.272e+07 / 42
p0 −2.164 ± 4.678e−06
−2.13
−2.14
−2.15
−2.16
−2.17
−2.18
−2.19
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1416
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 43
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

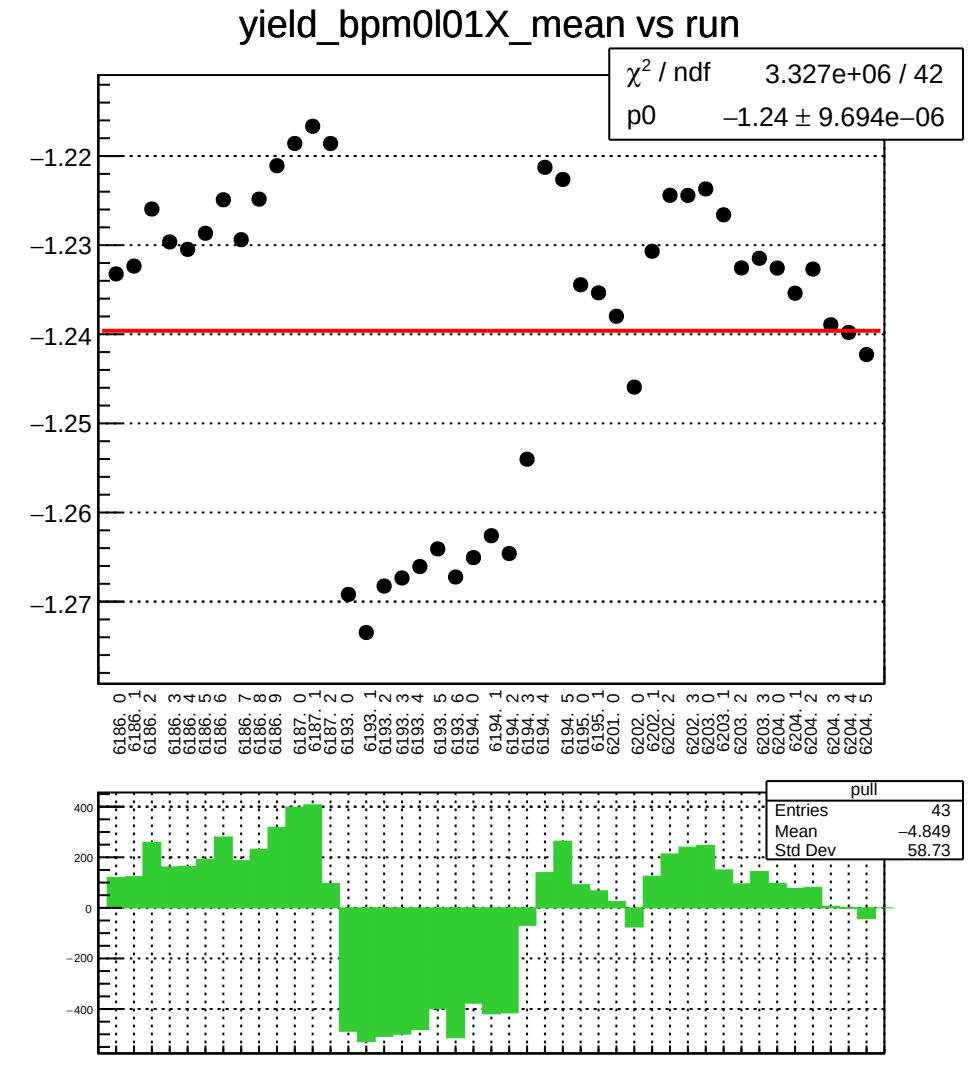

yield_bpm0i01Y_rms vs run
χ² / ndf 2.935e+04 / 42
p0 0.002988 ± 3.308e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

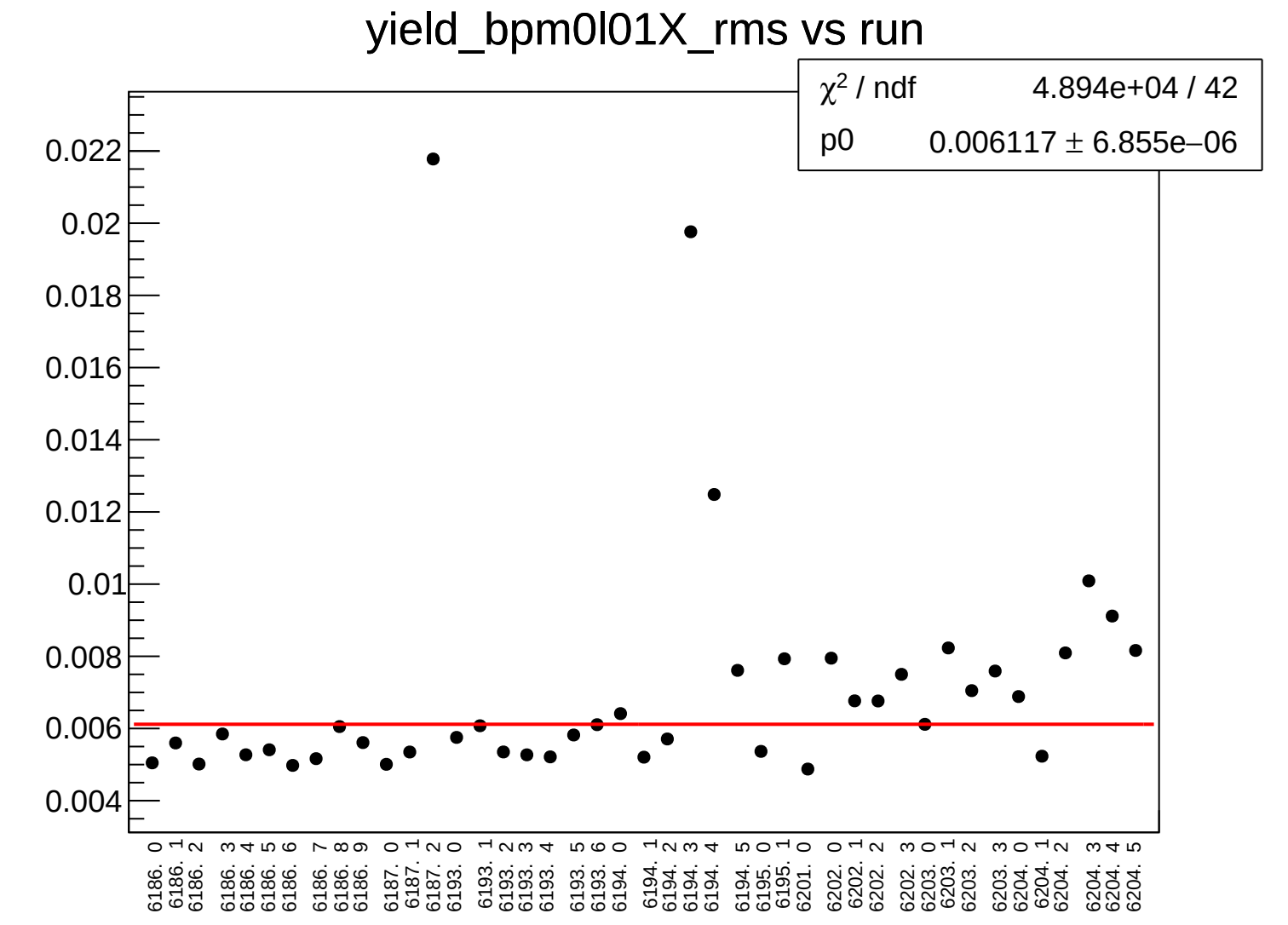

yield_bpm0i01aX_mean vs run
χ² / ndf 2.186e+06 / 42
p0 −2.366 ± 9.899e−06
−2.33
−2.34
−2.35
−2.36
−2.37
−2.38
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 714.3
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

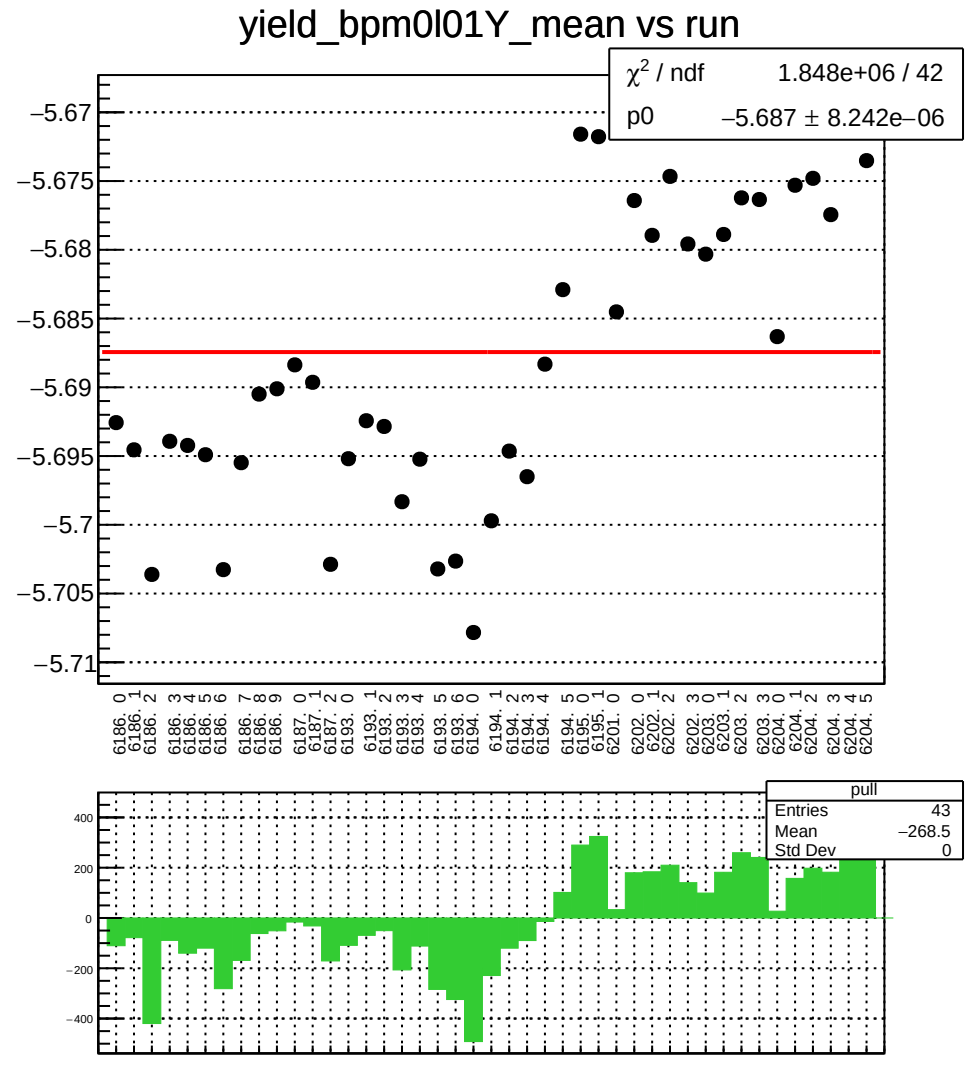

yield_bpm0i01aX_rms vs run
χ² / ndf 5456 / 42
p0 0.006415 ± 7e–06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

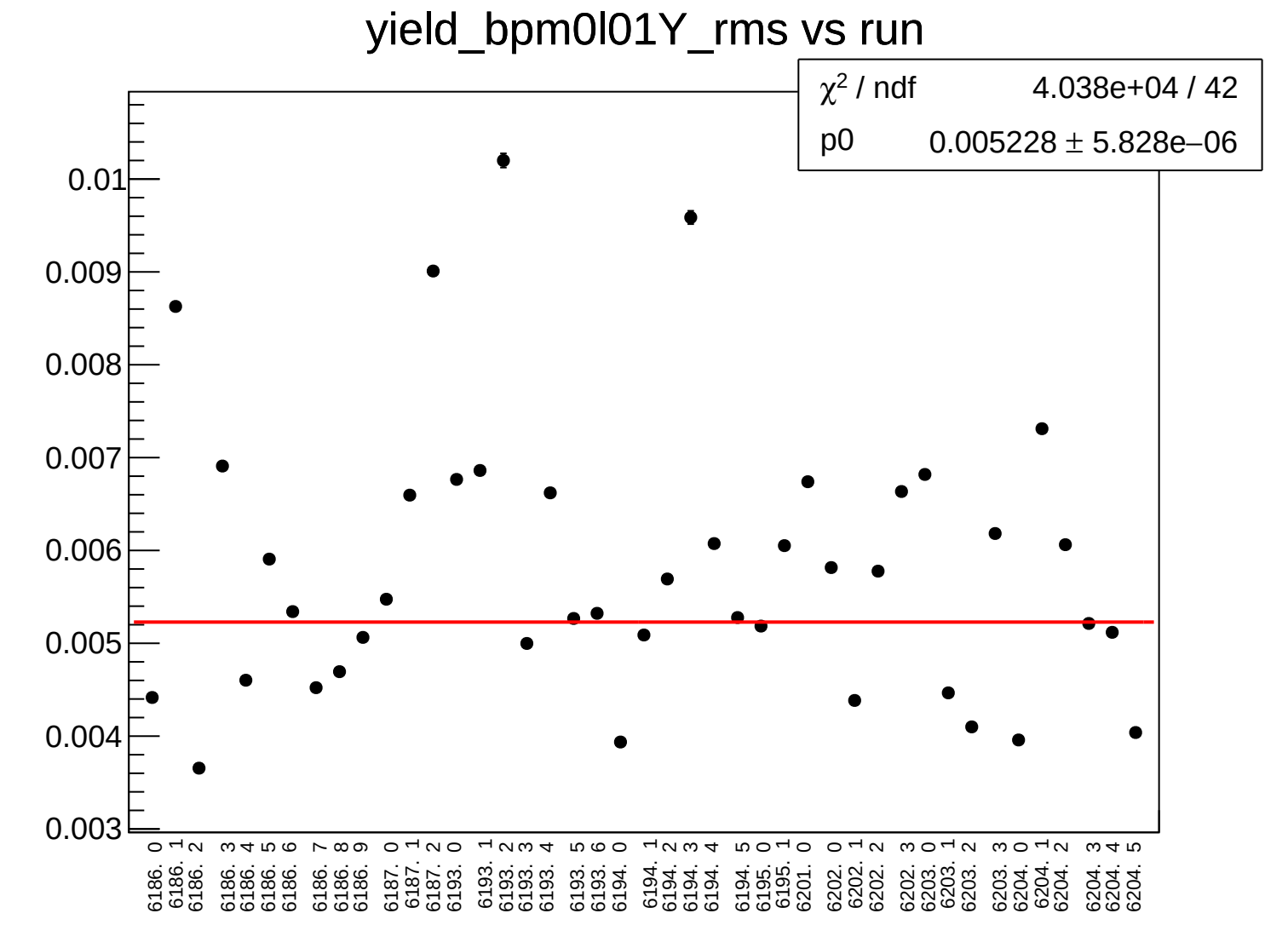

yield_bpm0i01aY_mean vs run
χ² / ndf 9.009e+07 / 42
p0 1.263 ± 2.753e−06
1.29
1.28
1.27
1.26
1.25
1.24
1.23
1.22
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −522.3
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

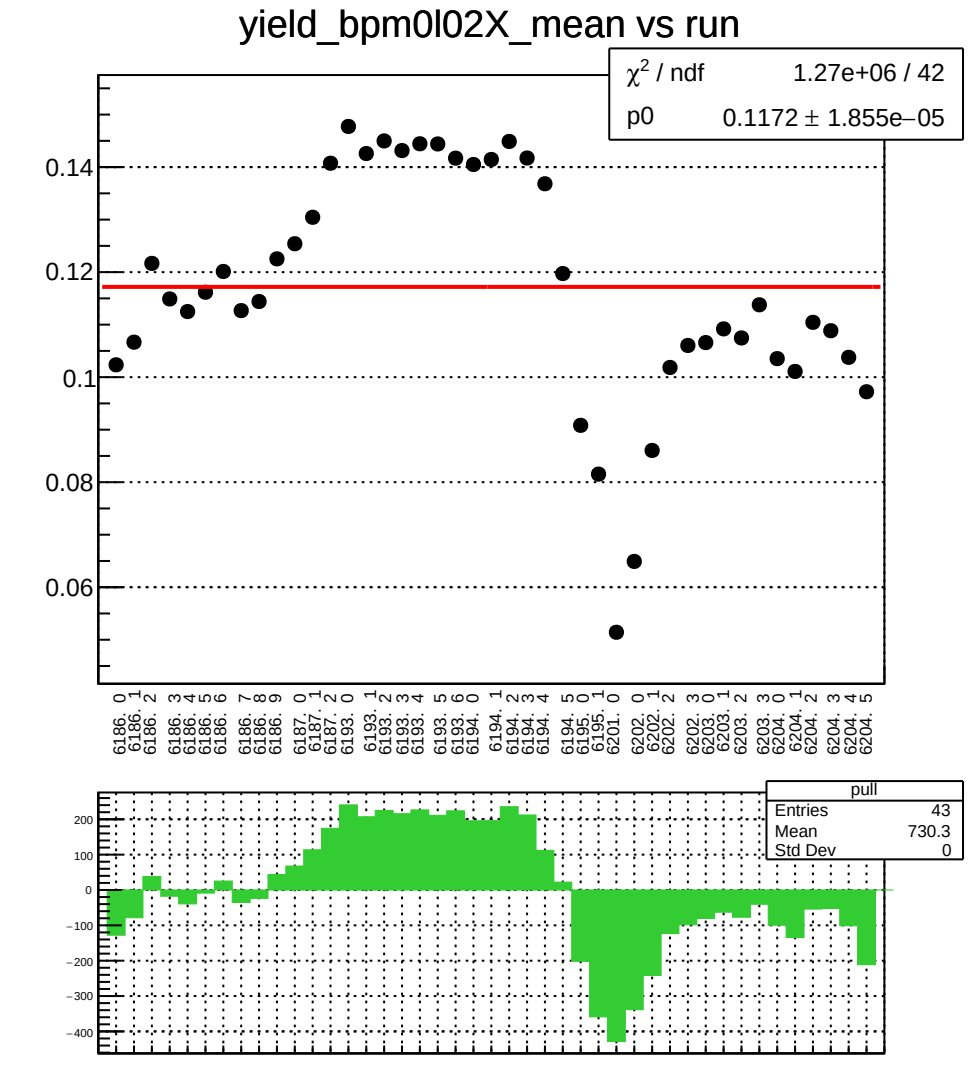

yield_bpm0i01aY_rms vs run
χ² / ndf 2.941e+04 / 42
p0 0.001758 ± 1.947e−06
0.0035
0.003
0.0025
0.002
0.0015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

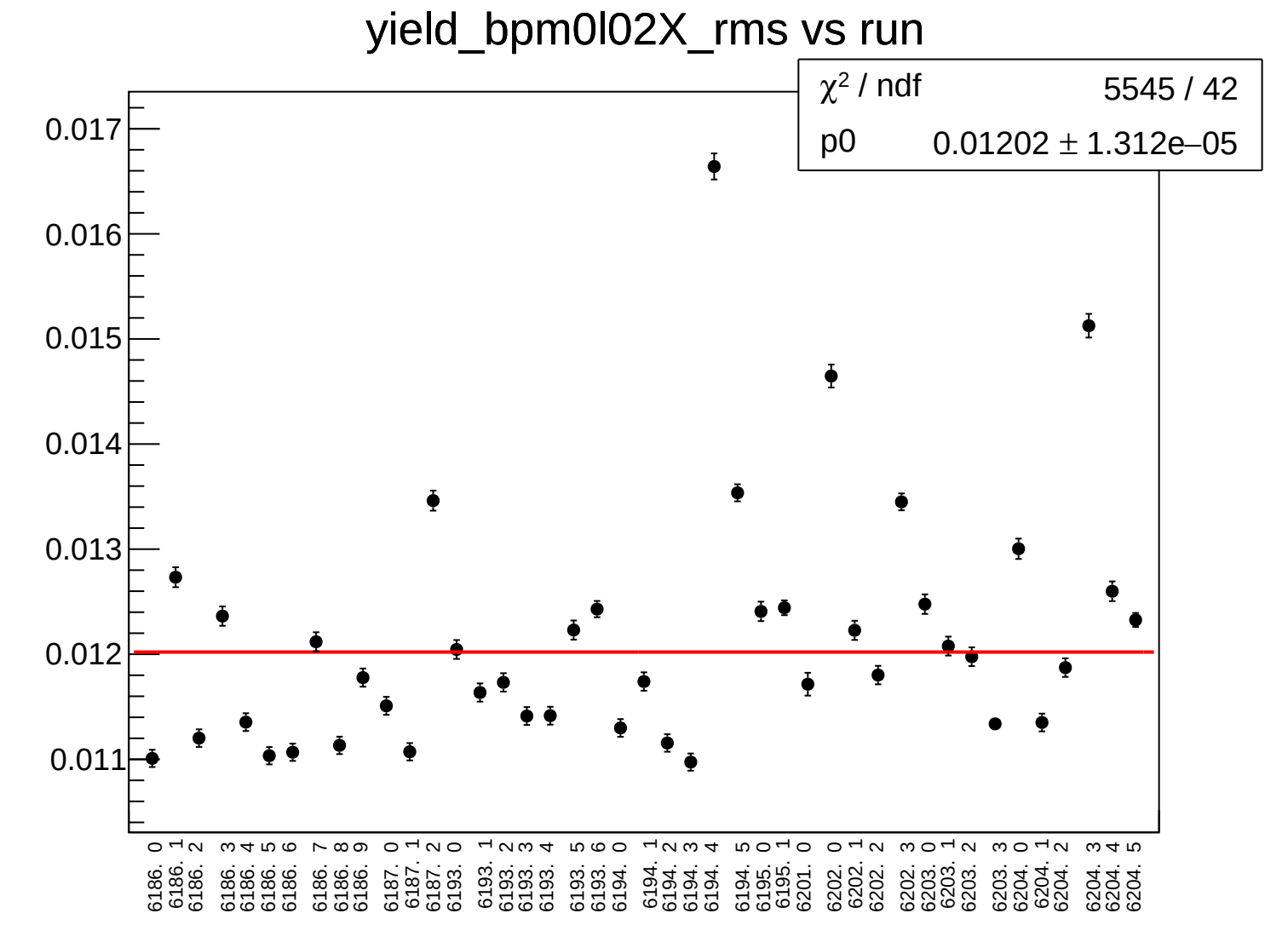

yield_bpm0l01X_mean vs run
χ² / ndf 3.327e+06 / 42
p0 −1.24 ± 9.694e−06
−1.22
−1.23
−1.24
−1.25
−1.26
−1.27
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −4.849
Std Dev 58.73
400
200
0
−200
−400
pull1D
Entries 43
Mean 2.229
Std Dev 4.164
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

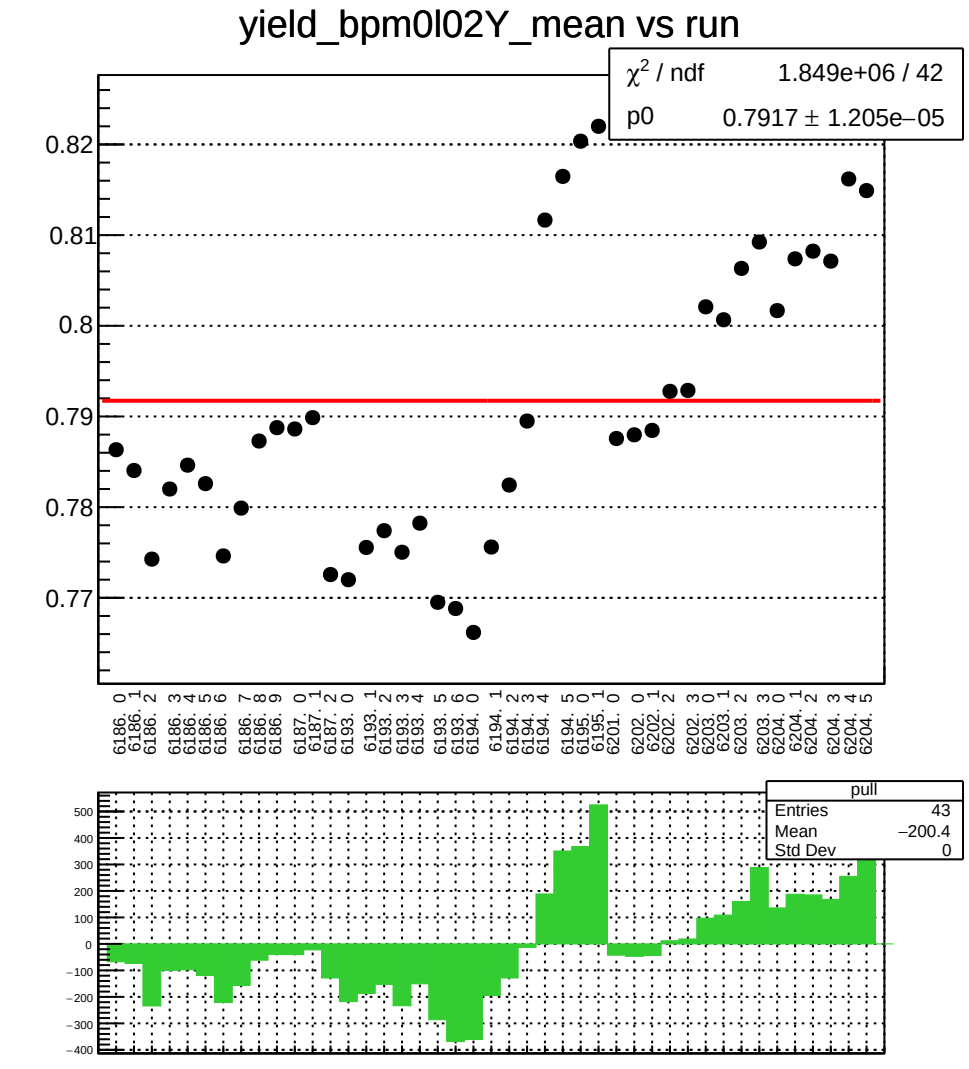

yield_bpm0l01X_rms vs run
χ² / ndf 4.894e+04 / 42
p0 0.006117 ± 6.855e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

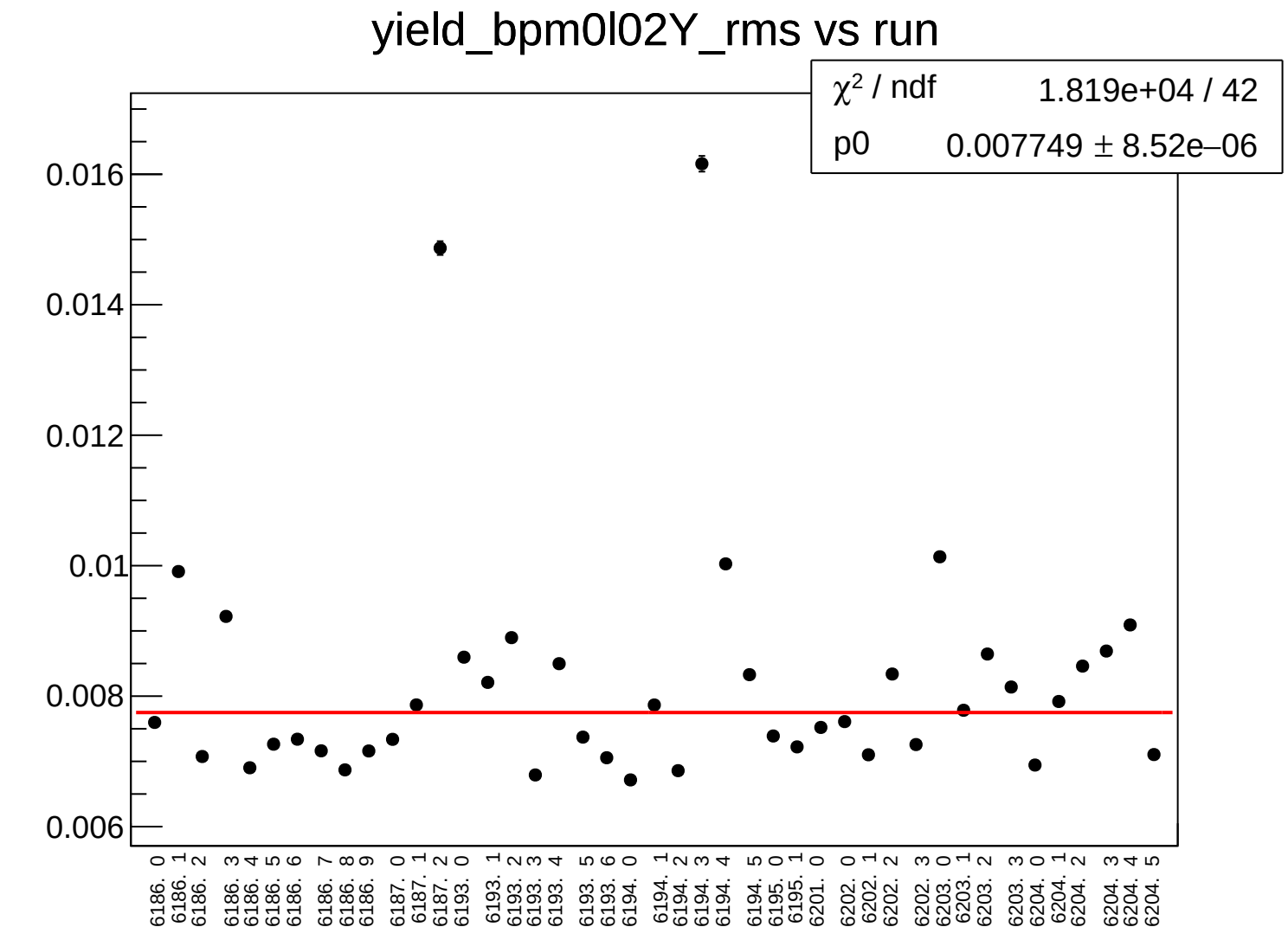

yield_bpm0l01Y_mean vs run
χ² / ndf 1.848e+06 / 42
p0 −5.687 ± 8.242e−06
−5.67
−5.675
−5.68
−5.685
−5.69
−5.695
−5.7
−5.705
−5.71
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −268.5
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

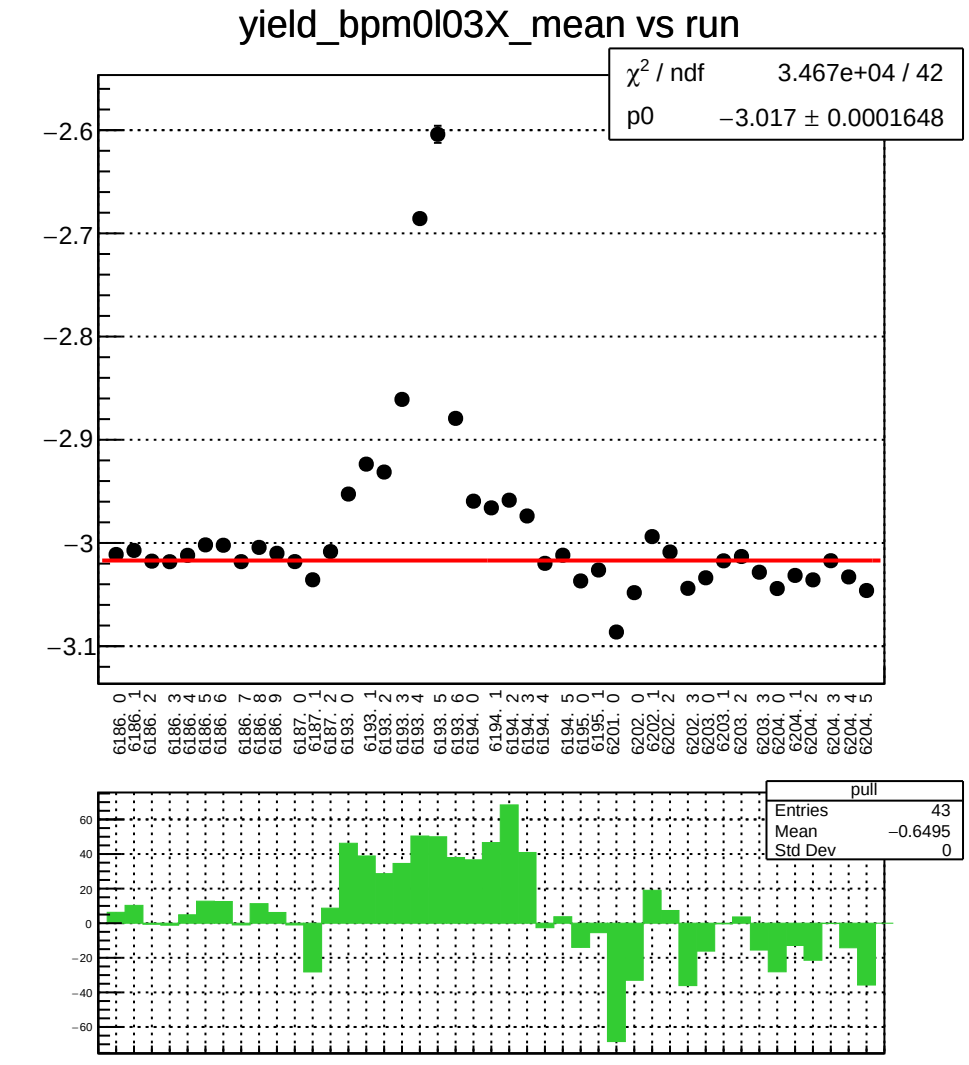

yield_bpm0l01Y_rms vs run
χ² / ndf 4.038e+04 / 42
p0 0.005228 ± 5.828e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

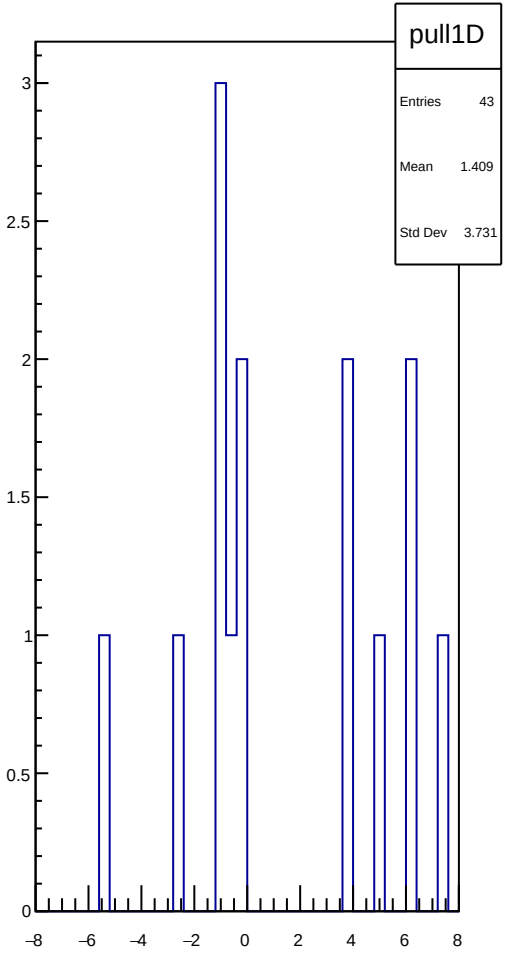

yield_bpm0l02X_mean vs run
χ² / ndf 1.27e+06 / 42
p0 0.1172 ± 1.855e−05
0.14
0.12
0.1
0.08
0.06
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 730.3
Std Dev 0
200
100
0
−100
−200
−300
−400
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

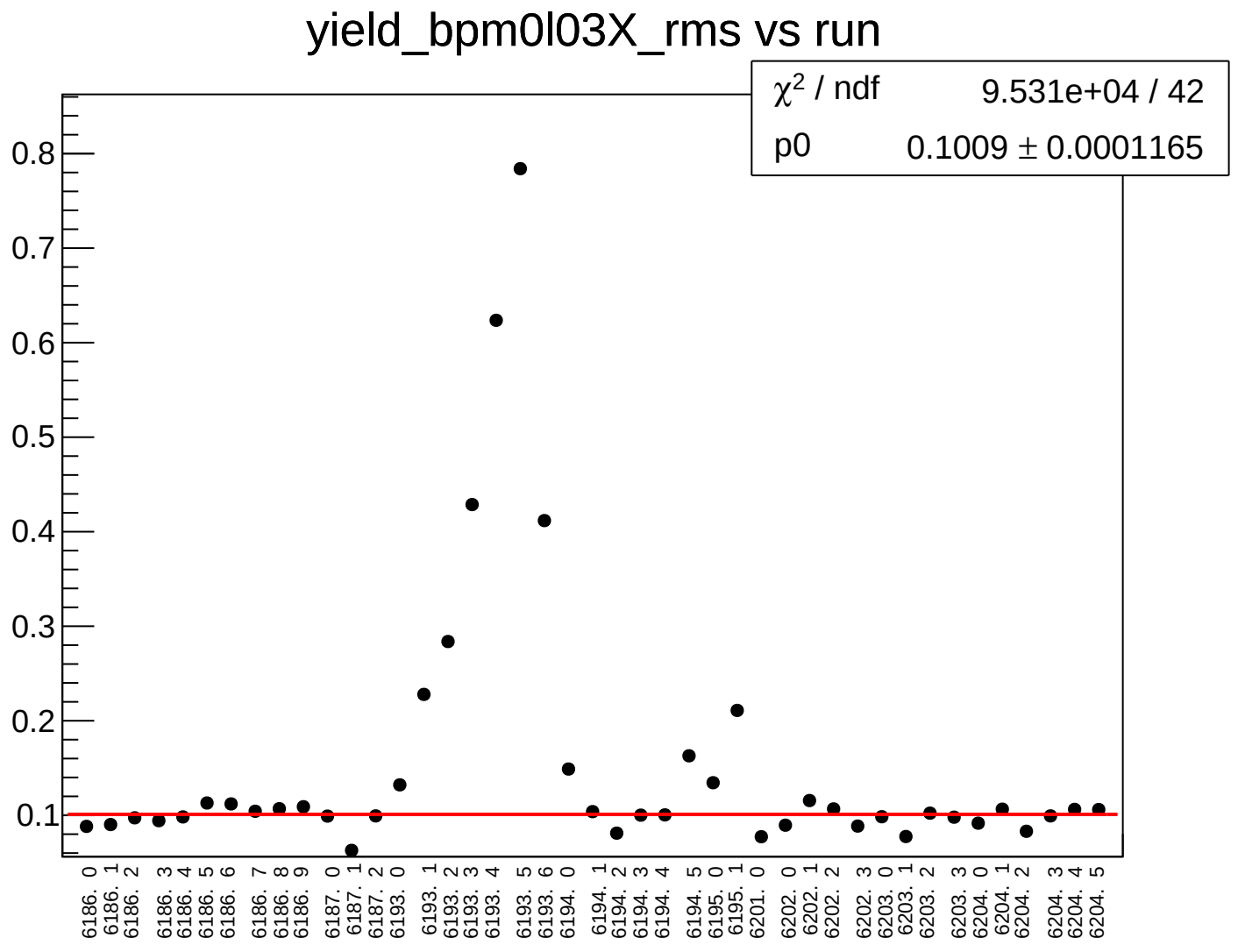

yield_bpm0l02X_rms vs run
χ² / ndf 5545 / 42
p0 0.01202 ± 1.312e–05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

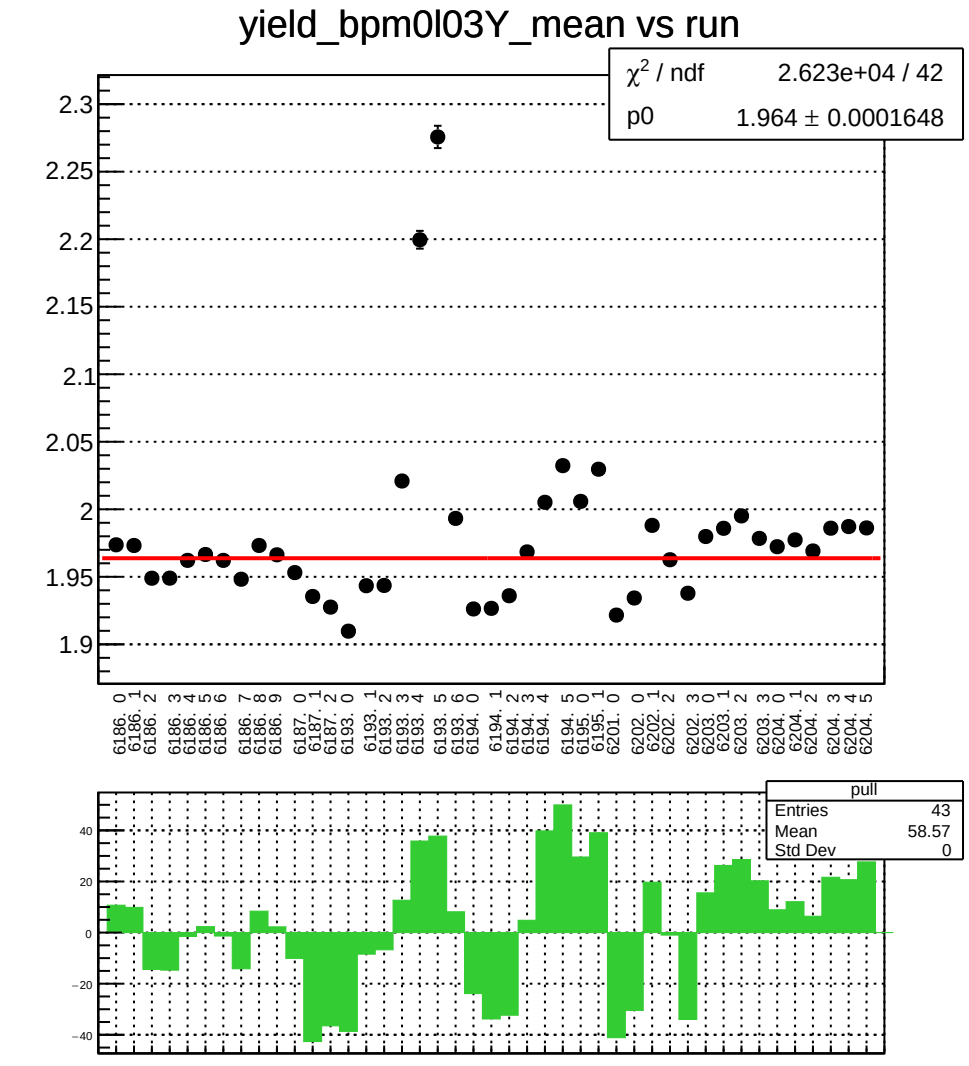

yield_bpm0l02Y_mean vs run
χ² / ndf 1.849e+06 / 42
p0 0.7917 ± 1.205e−05
0.82
0.81
0.8
0.79
0.78
0.77
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −200.4
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

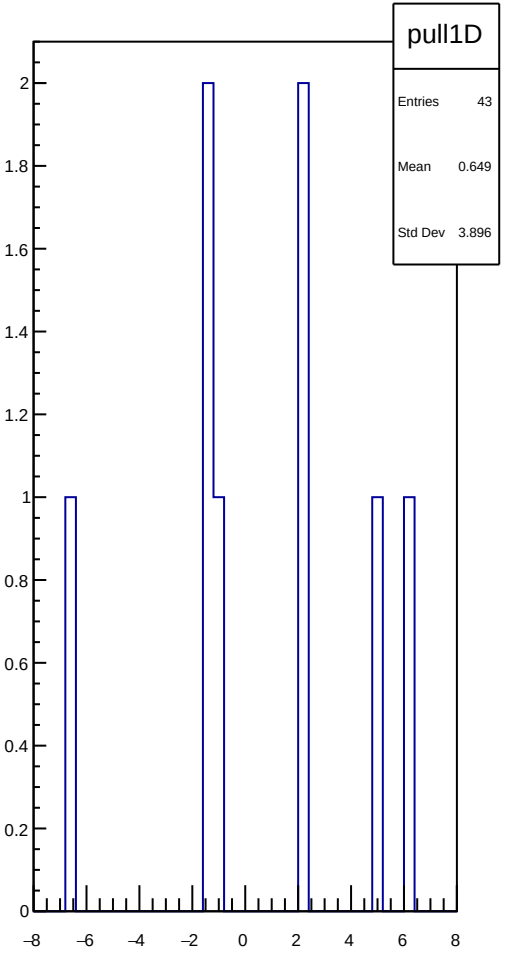

yield_bpm0l02Y_rms vs run
χ² / ndf 1.819e+04 / 42
p0 0.007749 ± 8.52e–06
0.016
0.014
0.012
0.01
0.008
0.006
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

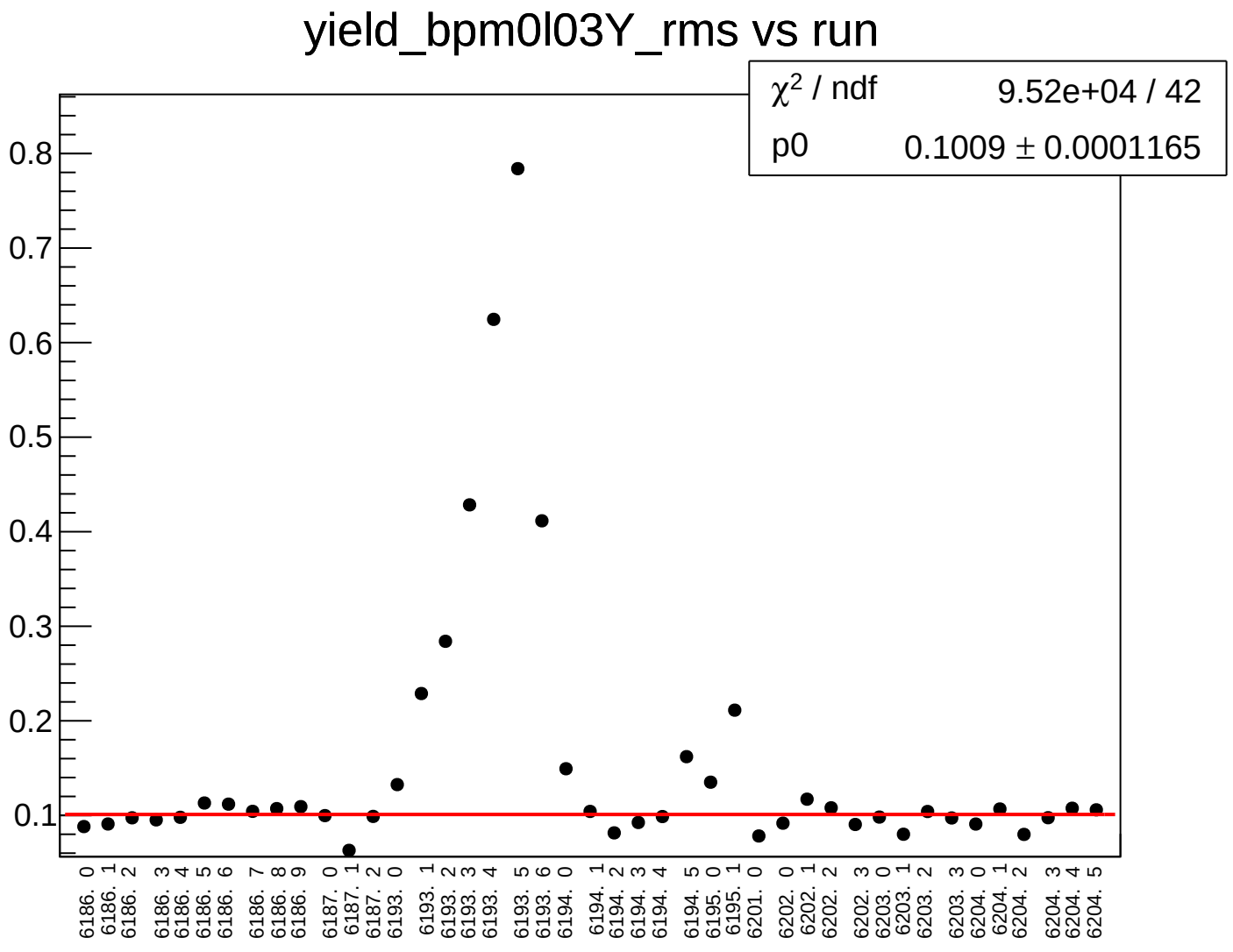

yield_bpm0l03X_mean vs run
χ² / ndf 3.467e+04 / 42
p0 −3.017 ± 0.0001648
−2.6
−2.7
−2.8
−2.9
−3
−3.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −0.6495
Std Dev 0
60
40
20
0
−20
−40
−60

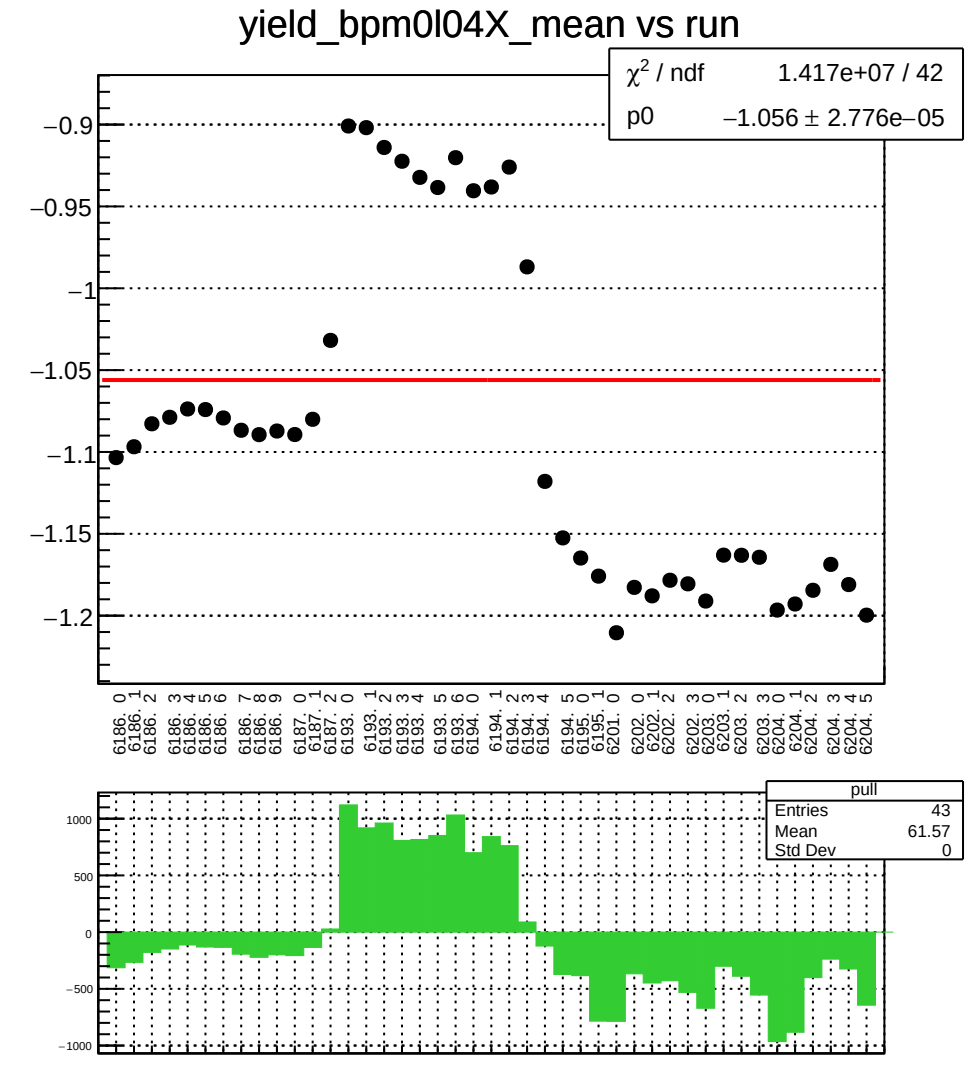

pull1D
Entries 43
Mean 1.409
Std Dev 3.731
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

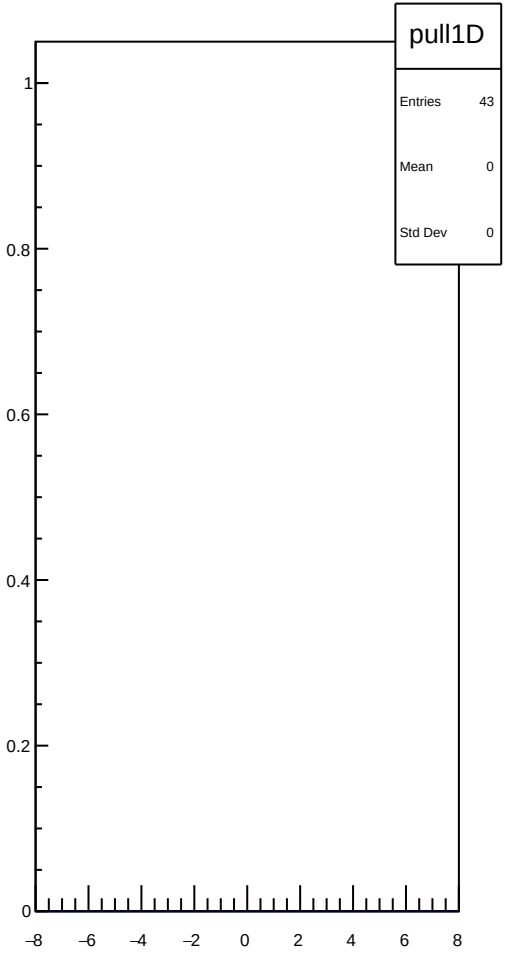

yield_bpm0l03X_rms vs run
χ² / ndf 9.531e+04 / 42
p0 0.1009 ± 0.0001165
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

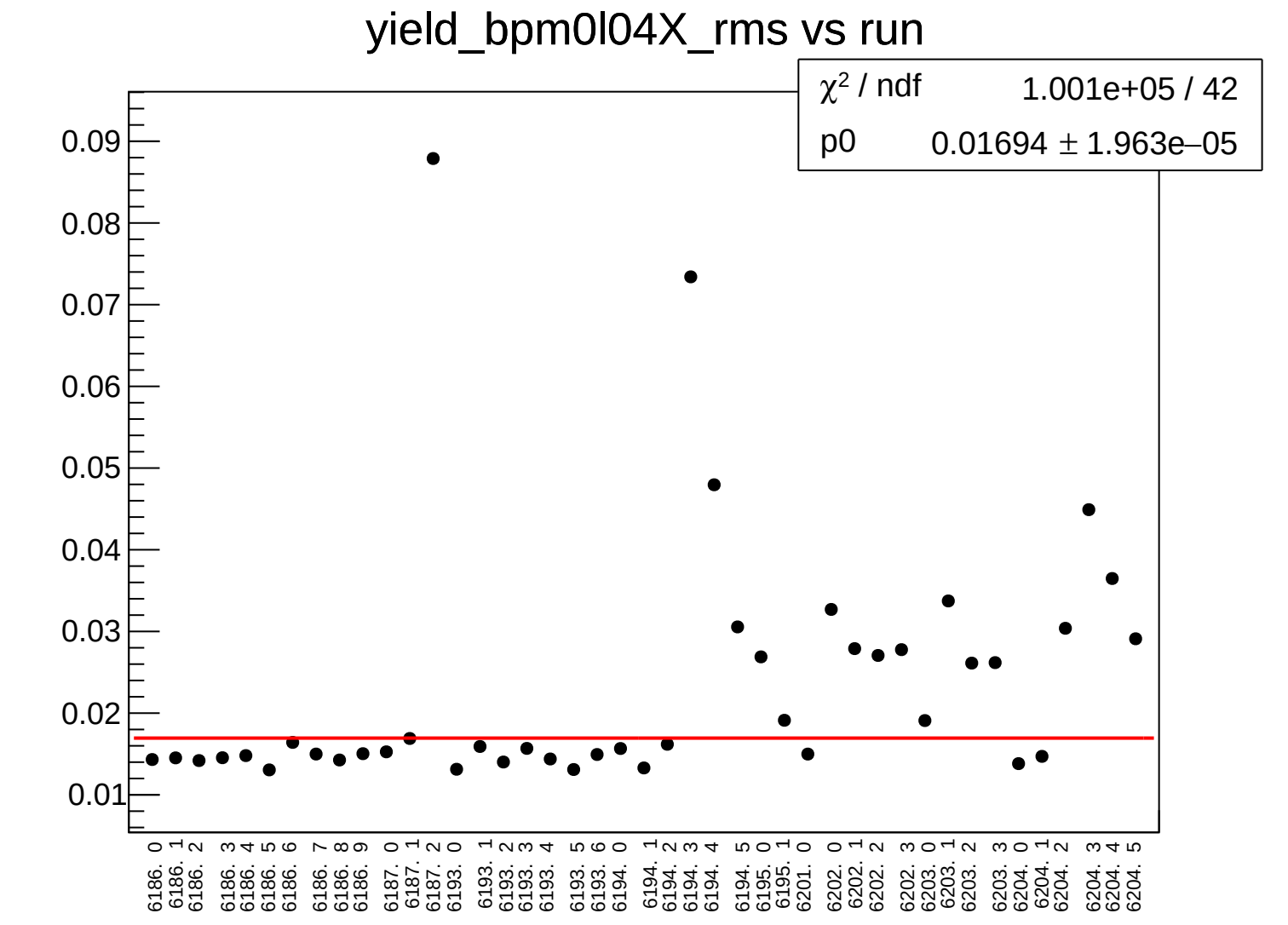

yield_bpm0l03Y_mean vs run
χ² / ndf 2.623e+04 / 42
p0 1.964 ± 0.0001648
2.3
2.25
2.2
2.15
2.1
2.05
2
1.95
1.9
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 58.57
Std Dev 0
40
20
0
−20
−40

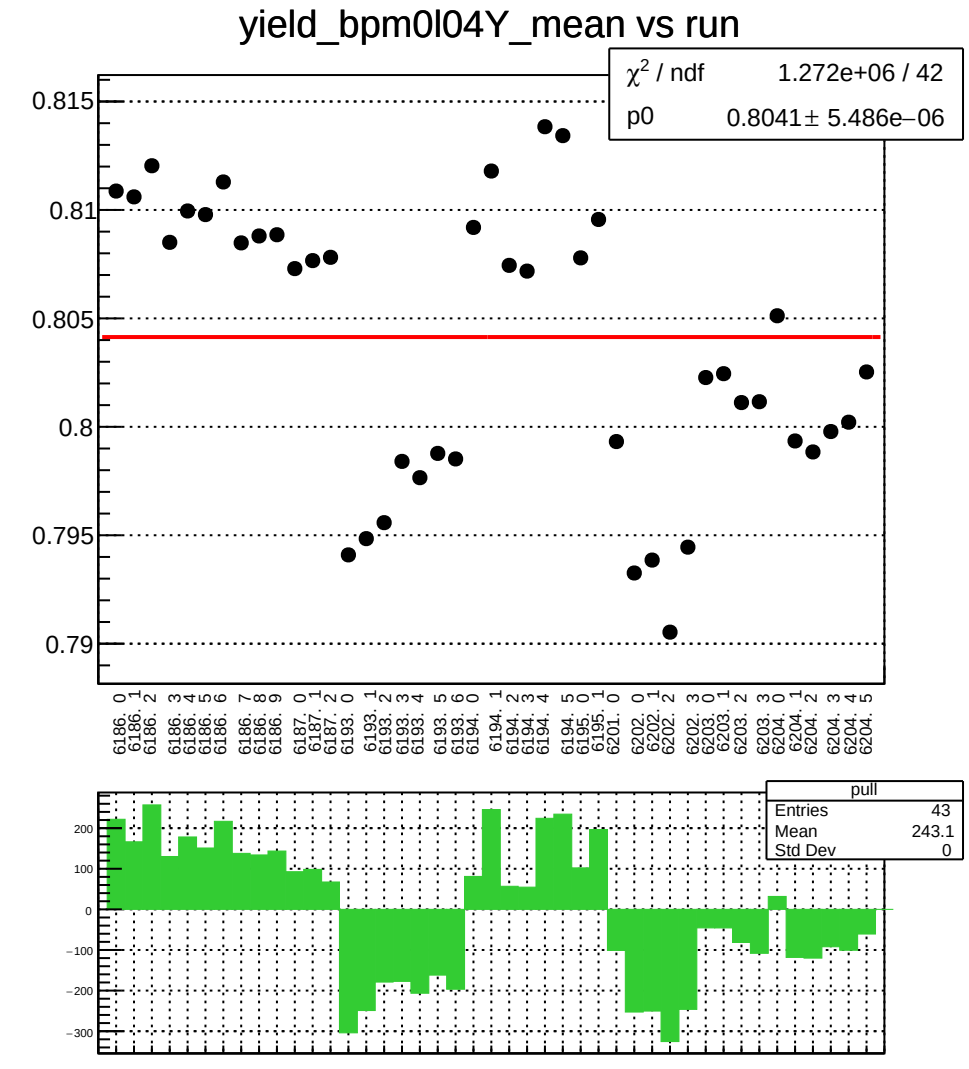

pull1D
Entries 43
Mean 0.649
Std Dev 3.896
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

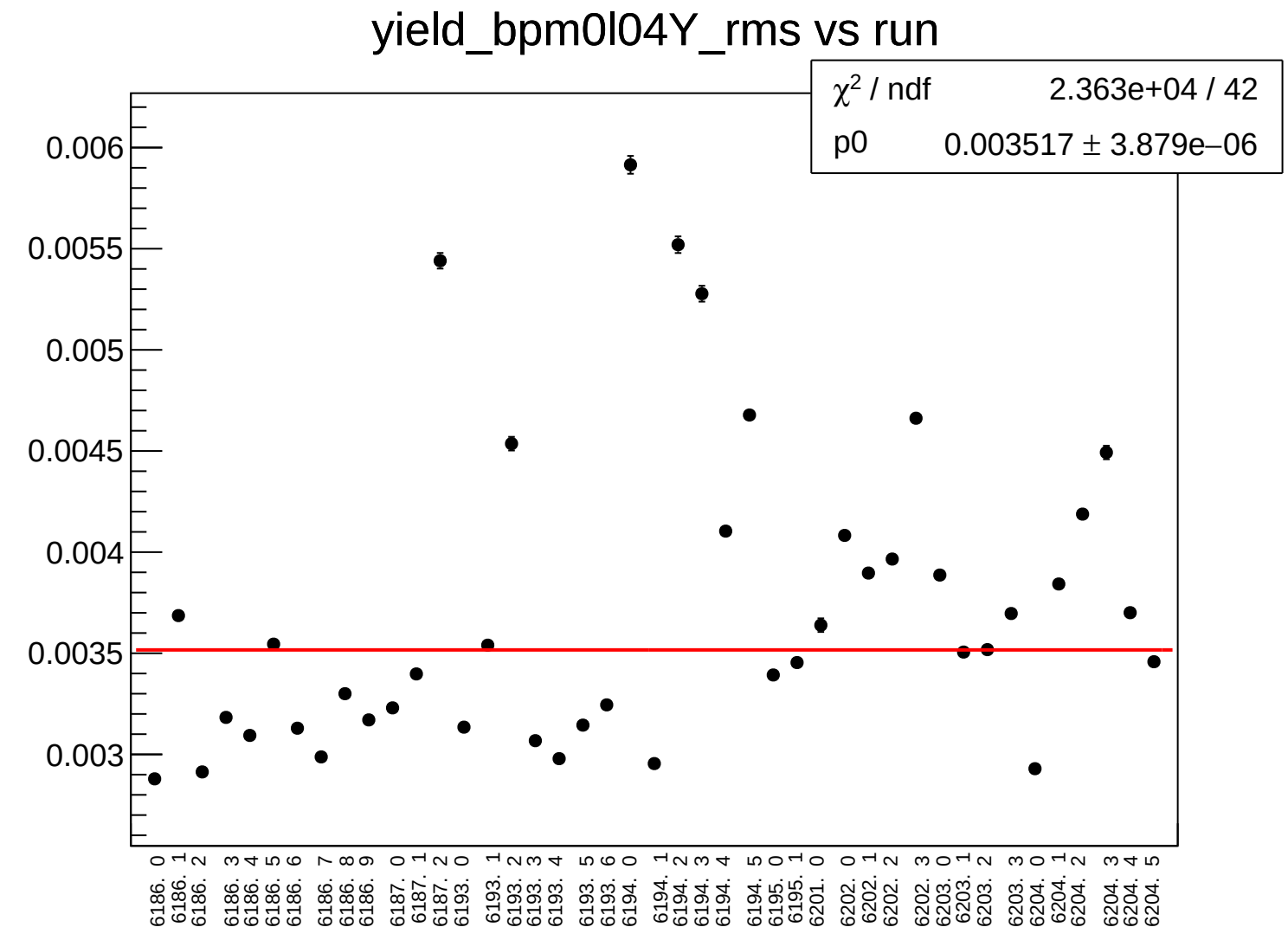

yield_bpm0l03Y_rms vs run
χ² / ndf 9.52e+04 / 42
p0 0.1009 ± 0.0001165
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

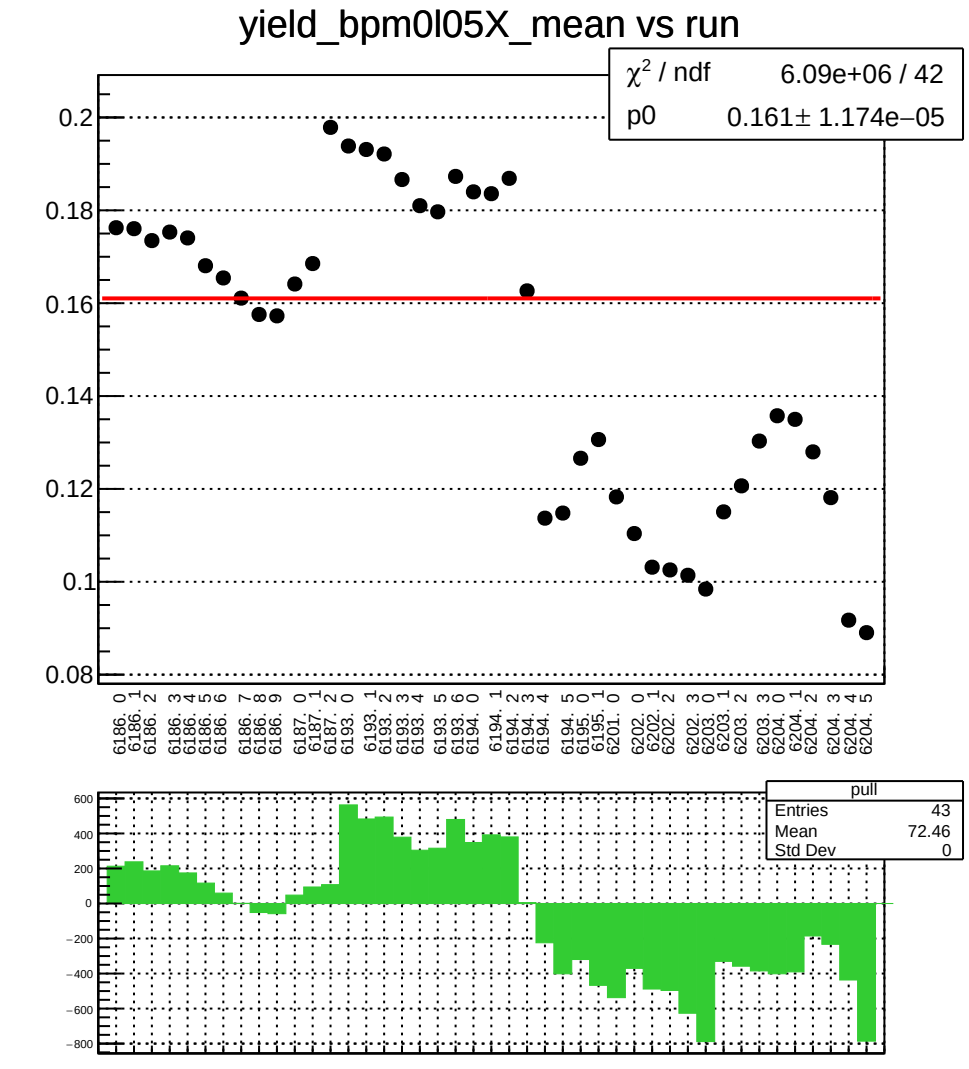

yield_bpm0l04X_mean vs run
χ² / ndf 1.417e+07 / 42
p0 −1.056 ± 2.776e−05
−0.9
−0.95
−1
−1.05
−1.1
−1.15
−1.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 61.57
Std Dev 0
1000
500
0
−500
−1000

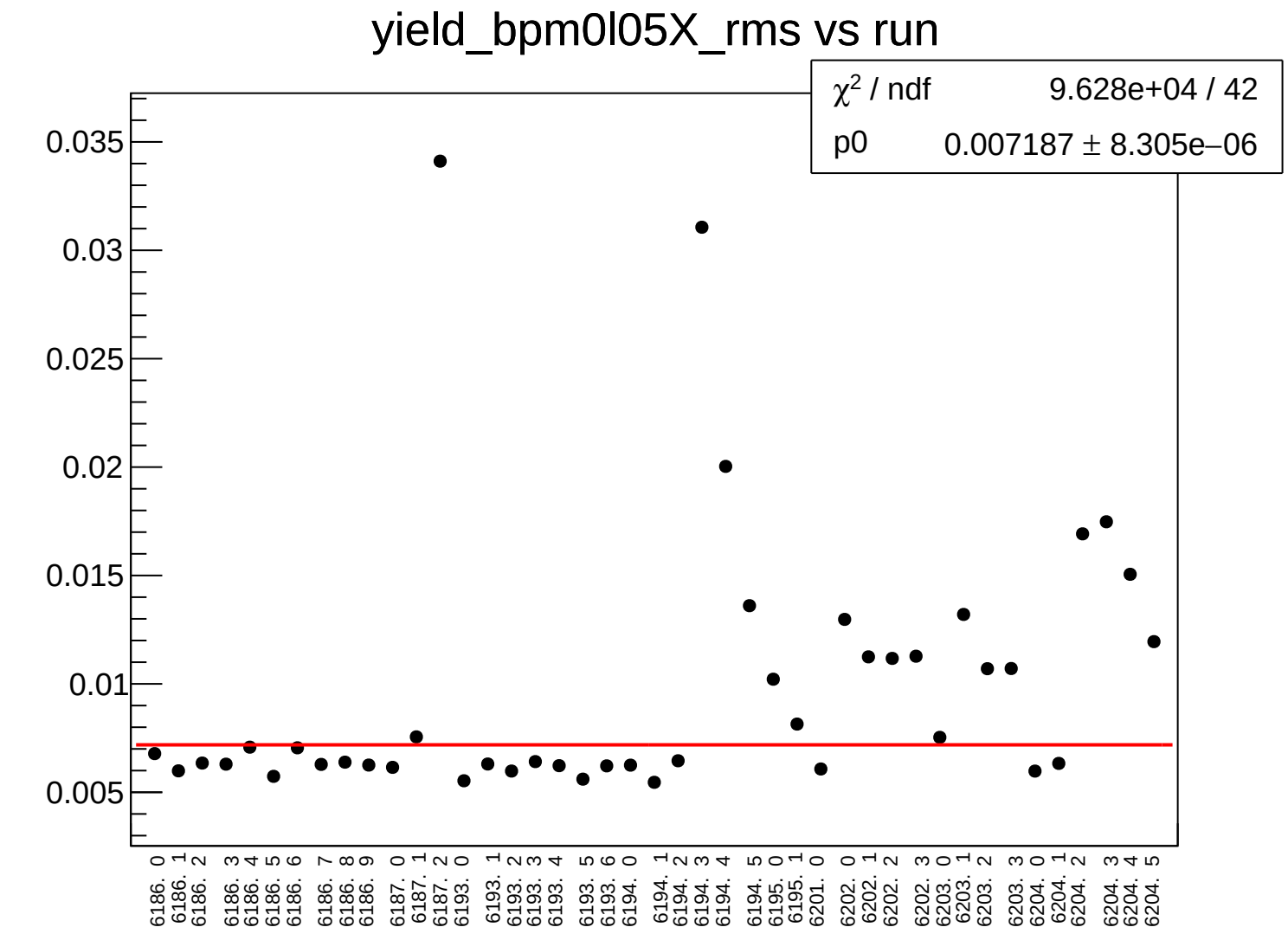

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

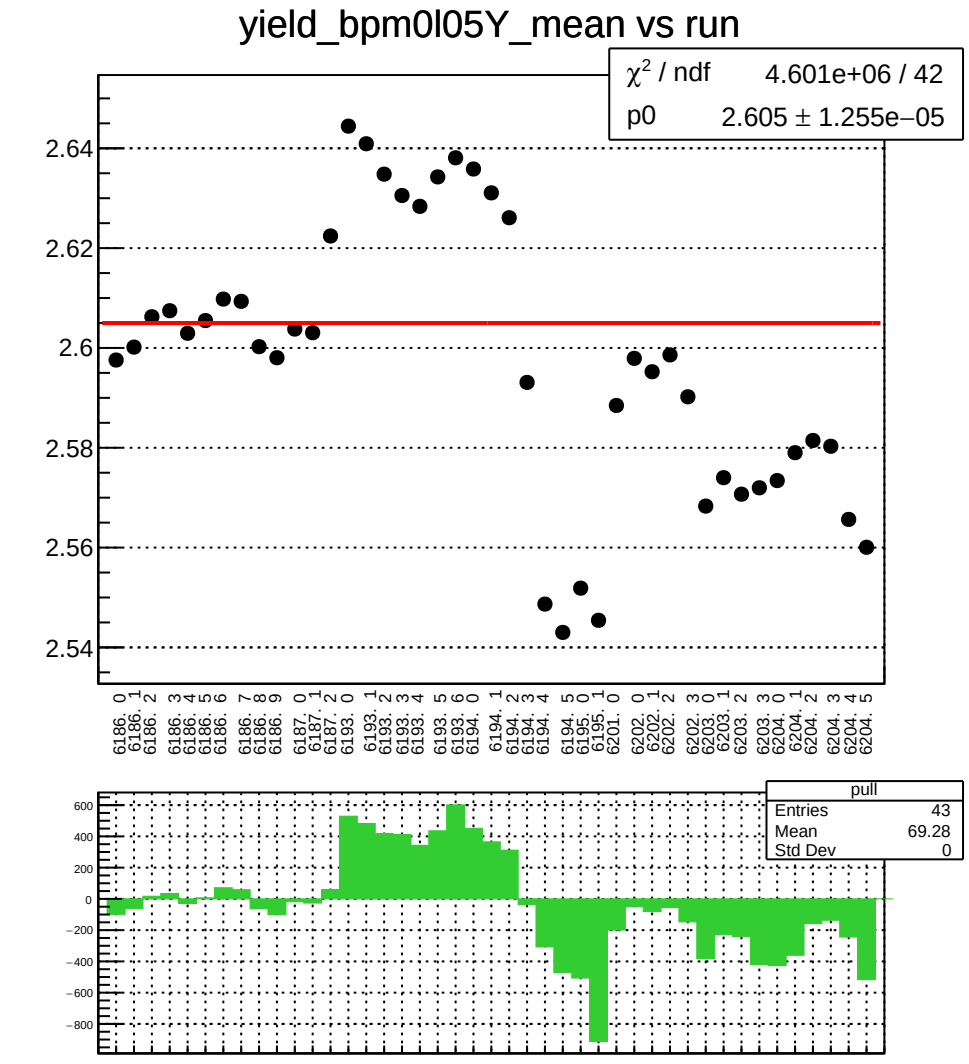

yield_bpm0l04X_rms vs run
χ² / ndf 1.001e+05 / 42
p0 0.01694 ± 1.963e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

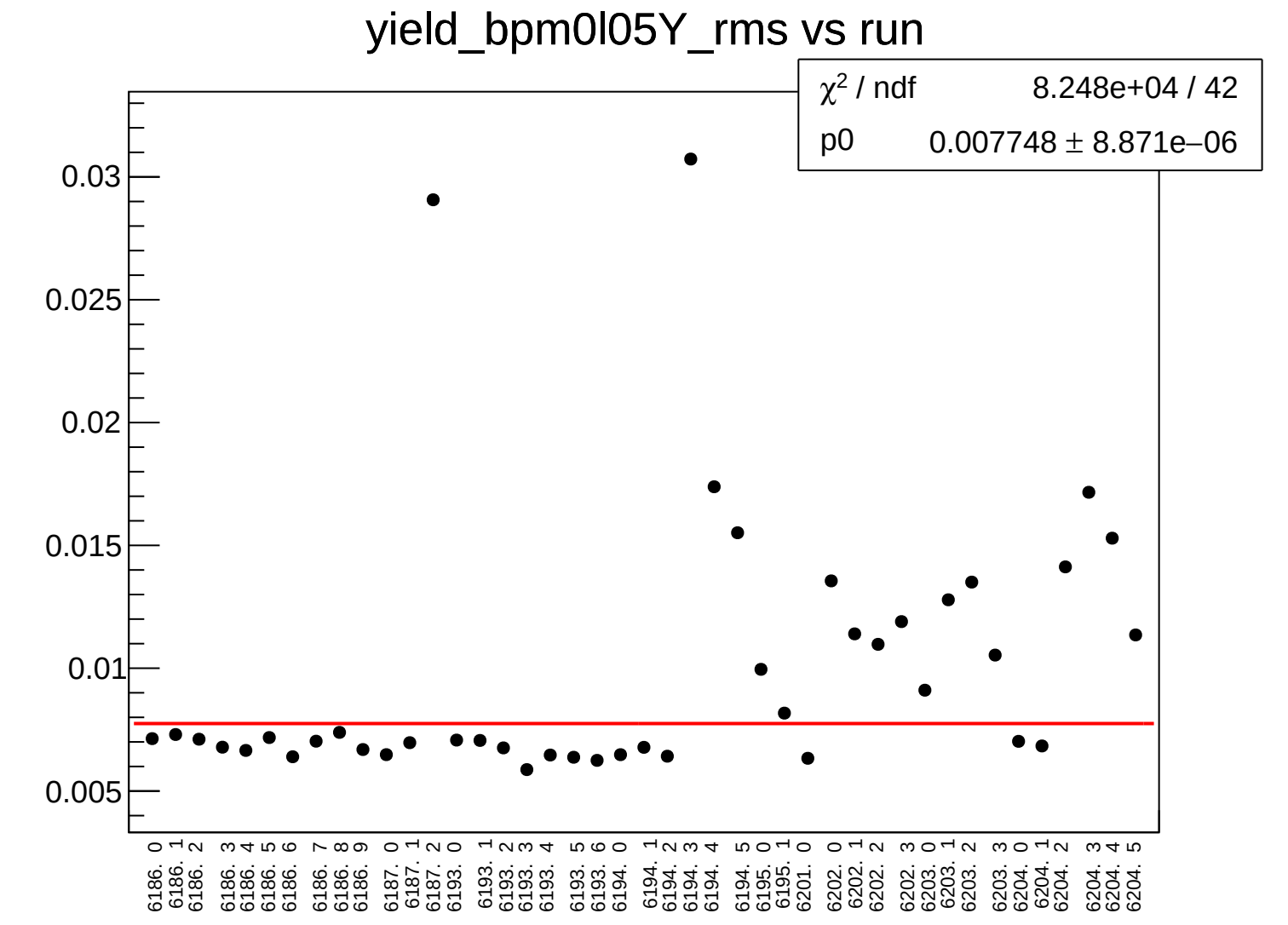

yield_bpm0l04Y_mean vs run
χ² / ndf 1.272e+06 / 42
p0 0.8041 ± 5.486e−06
0.815
0.81
0.805
0.8
0.795
0.79
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 243.1
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

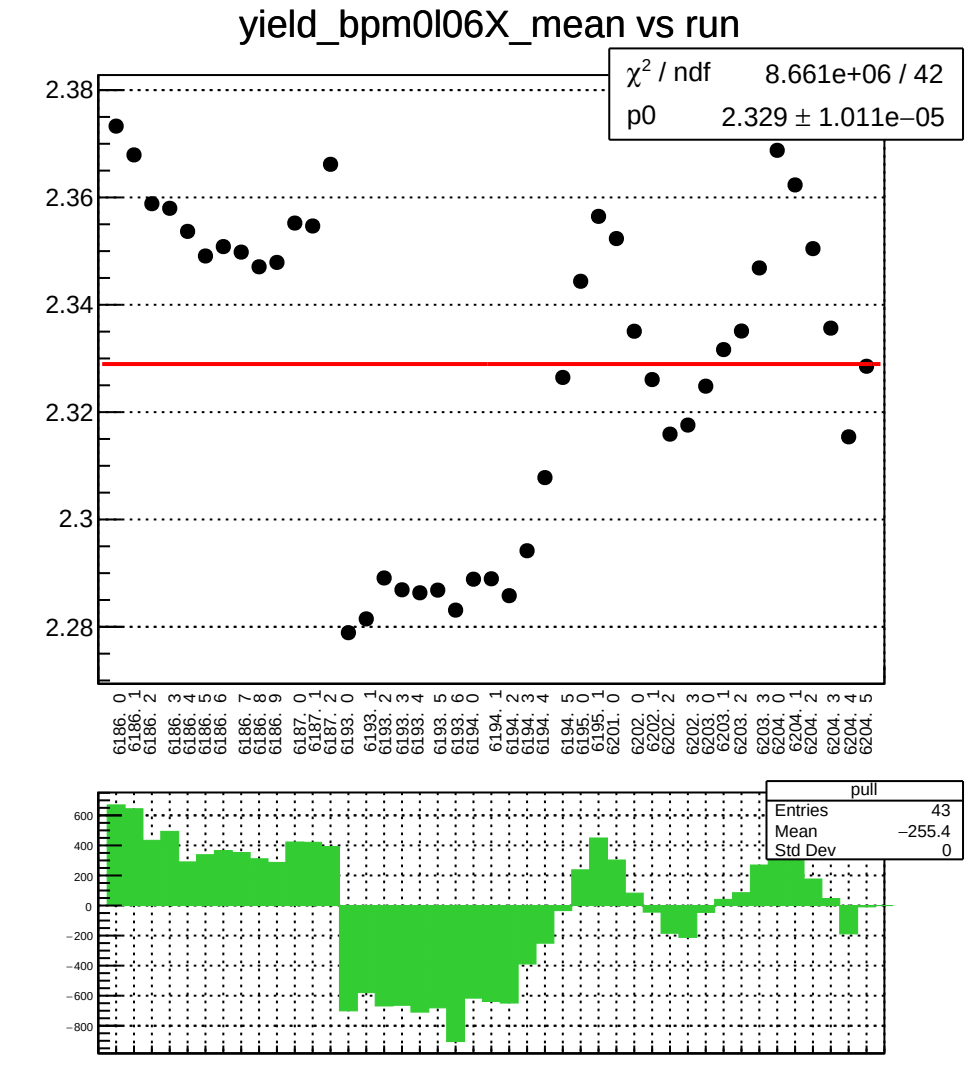

yield_bpm0l04Y_rms vs run
χ² / ndf 2.363e+04 / 42
p0 0.003517 ± 3.879e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

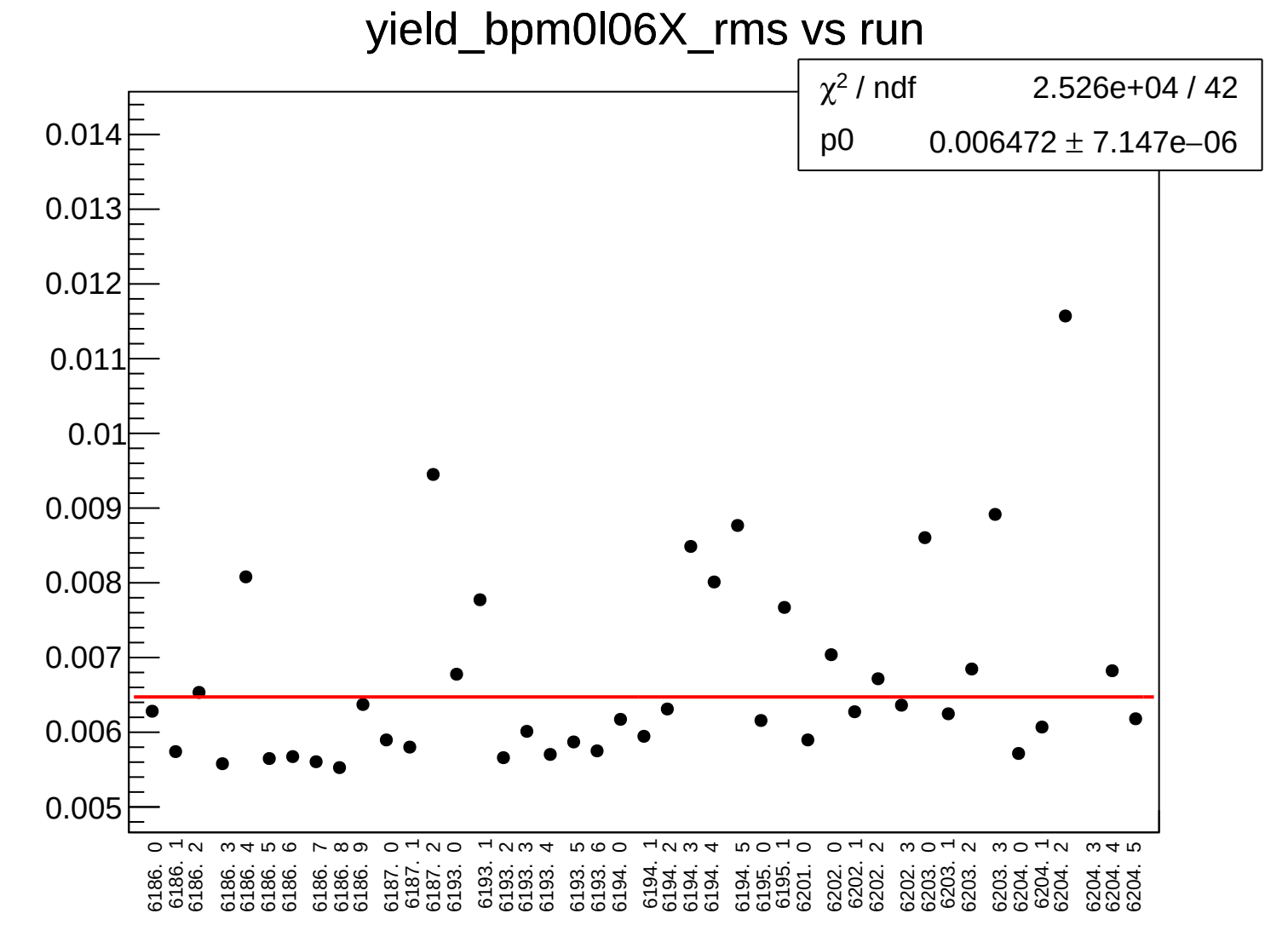

yield_bpm0l05X_mean vs run
χ² / ndf 6.09e+06 / 42
p0 0.161± 1.174e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 72.46
Std Dev 0
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 43
Mean 2.944
Std Dev 2.02
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

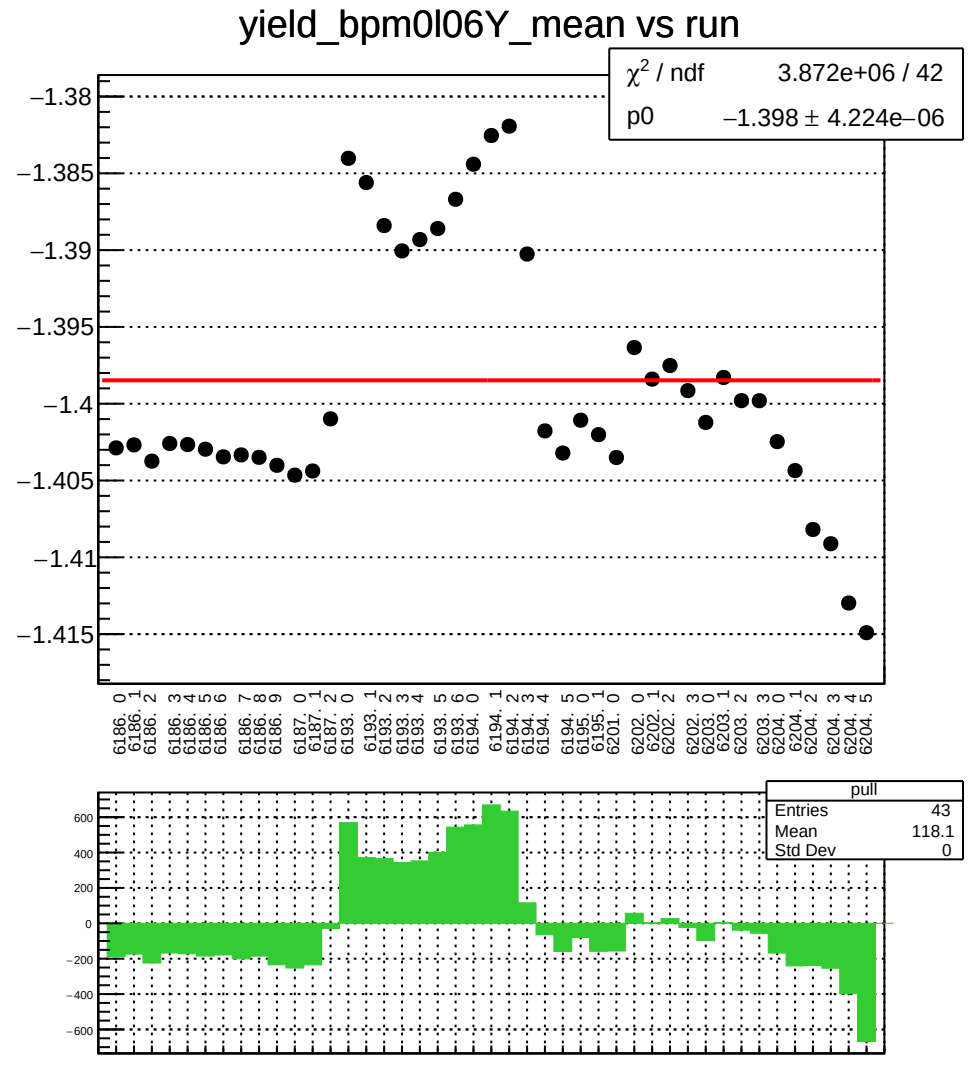

yield_bpm0l05X_rms vs run
χ² / ndf 9.628e+04 / 42
p0 0.007187 ± 8.305e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

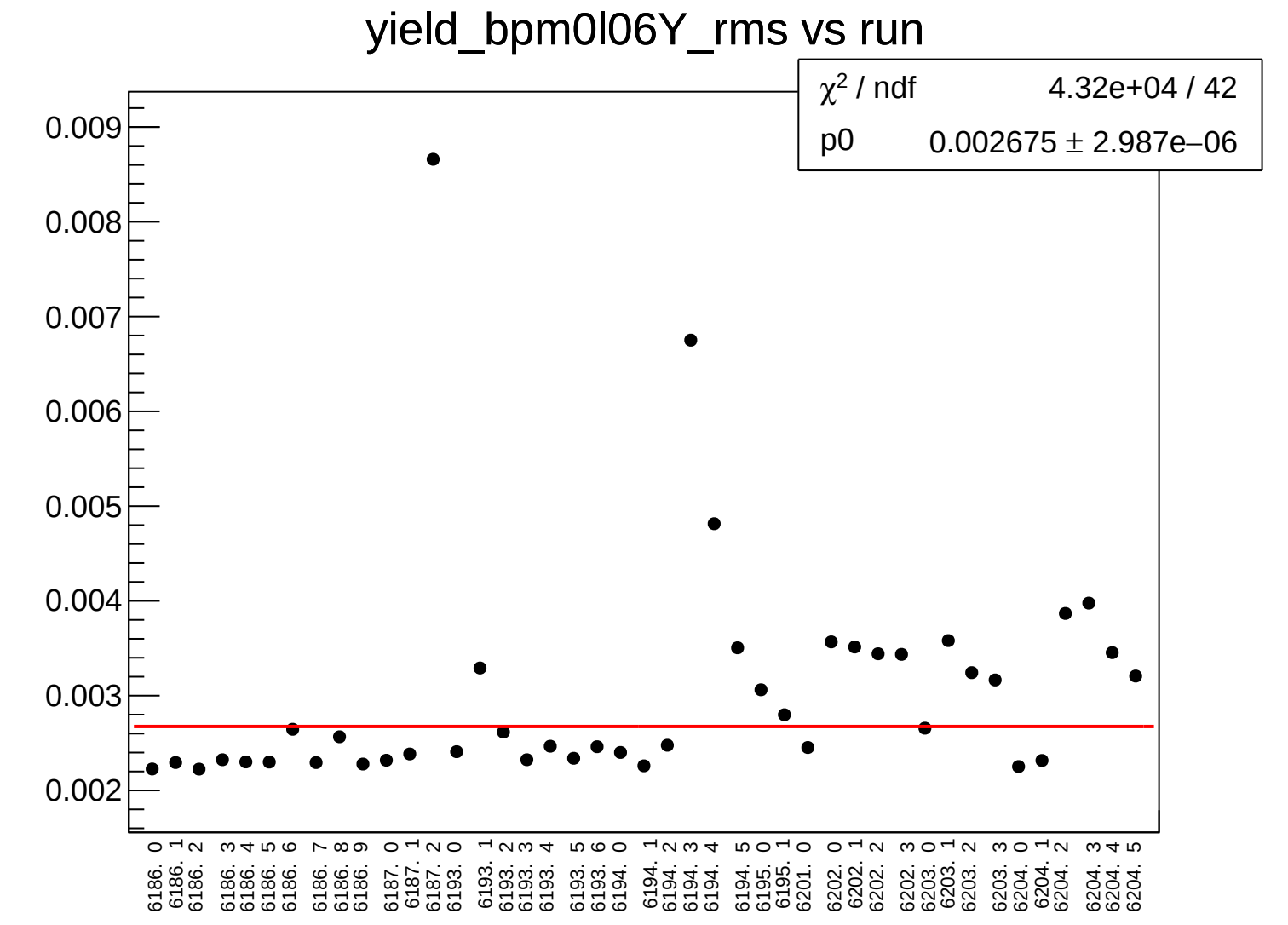

yield_bpm0l05Y_mean vs run
χ² / ndf 4.601e+06 / 42
p0 2.605 ± 1.255e−05
2.64
2.62
2.6
2.58
2.56
2.54
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 69.28
Std Dev 0
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 43
Mean 6.447
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

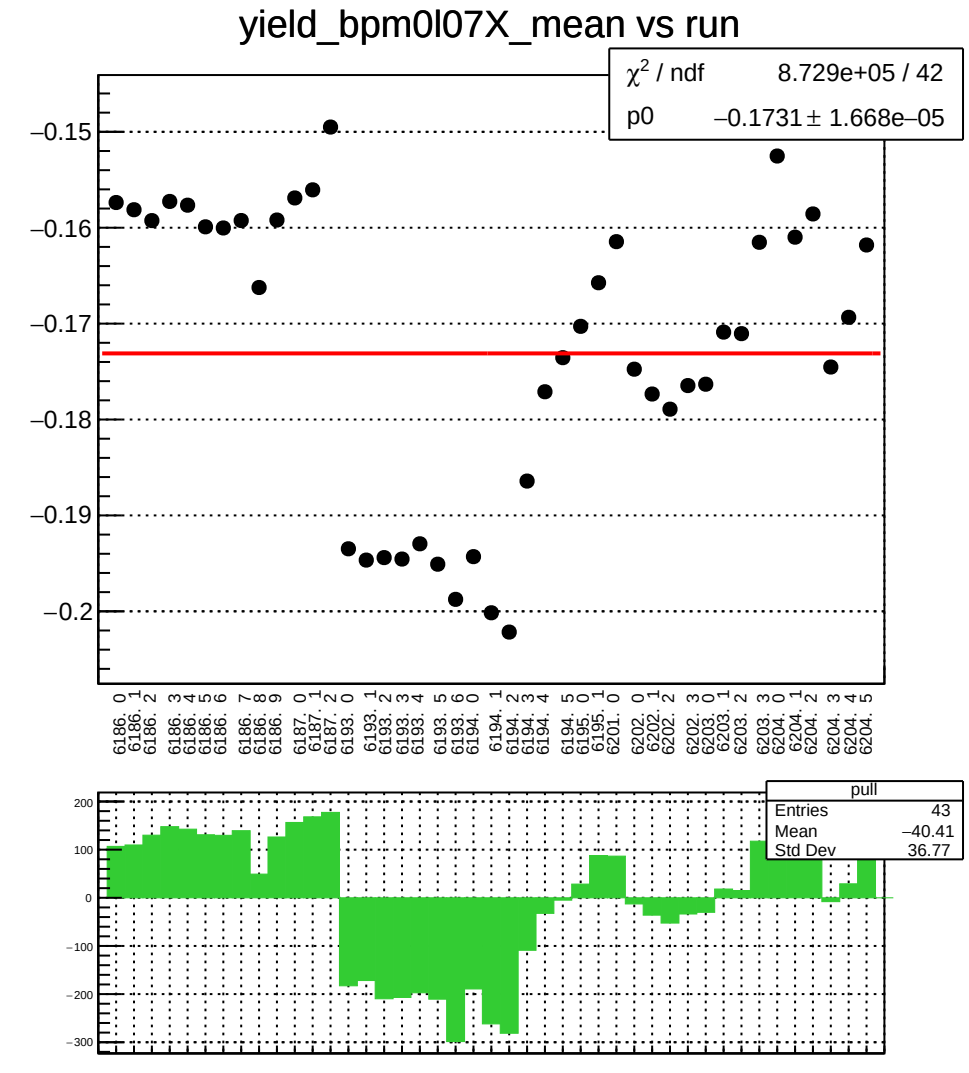

yield_bpm0l05Y_rms vs run
χ² / ndf 8.248e+04 / 42
p0 0.007748 ± 8.871e−06
0.03
0.025
0.02
0.015
0.01
0.005
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

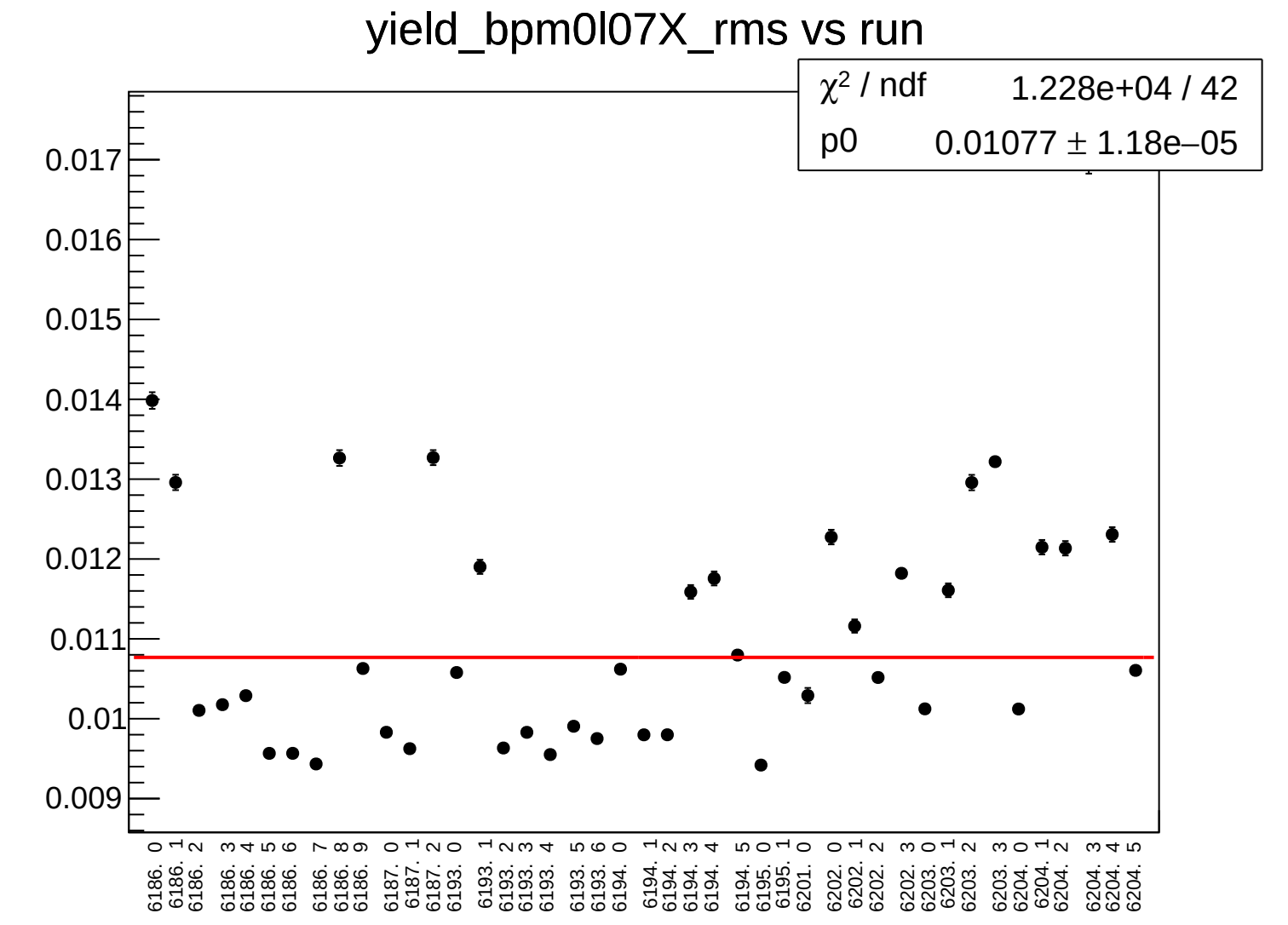

yield_bpm0l06X_mean vs run
χ² / ndf 8.661e+06 / 42
p0 2.329 ± 1.011e−05
2.38
2.36
2.34
2.32
2.3
2.28
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −255.4
Std Dev 0
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

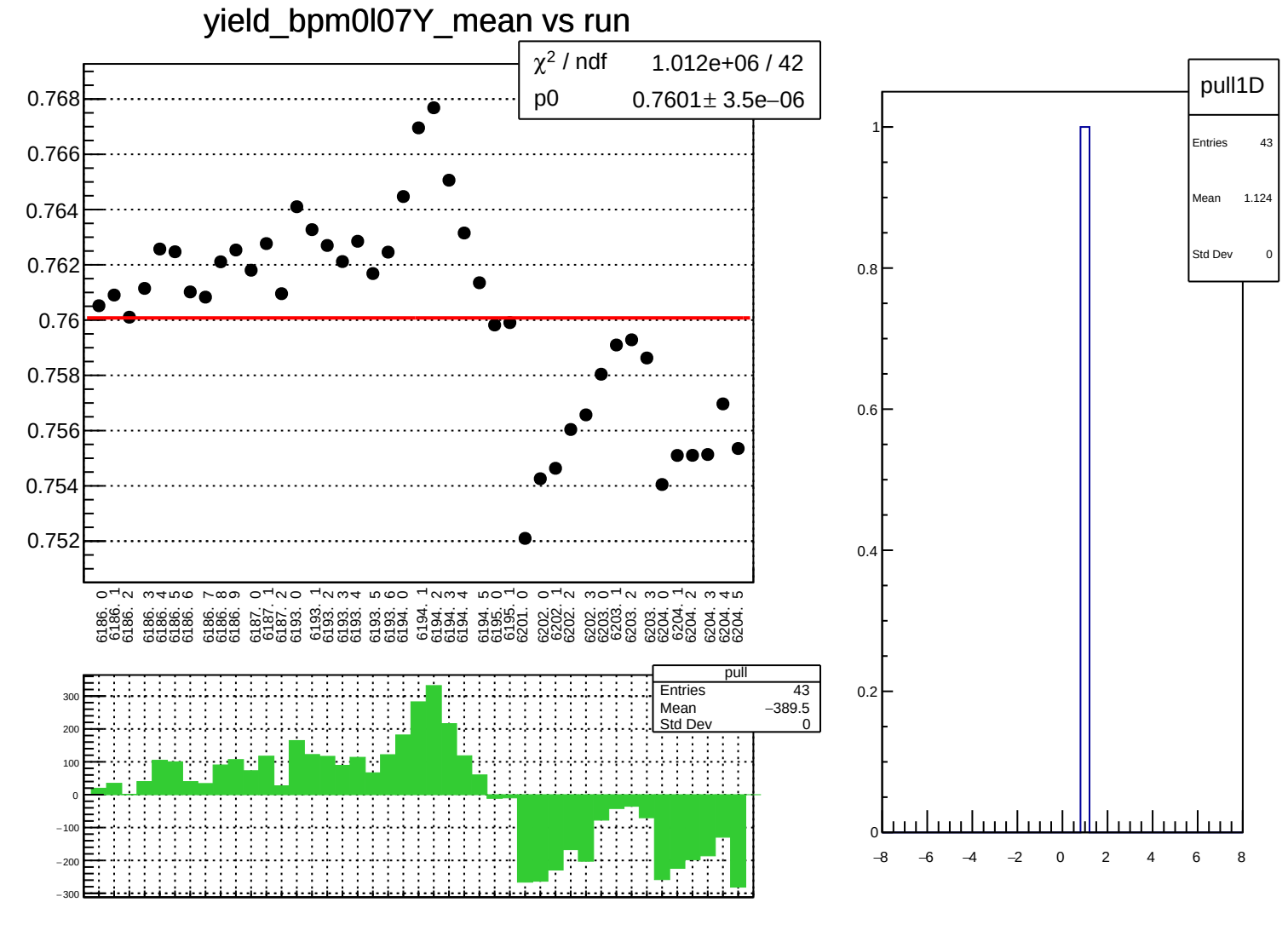

yield_bpm0l06X_rms vs run
χ² / ndf 2.526e+04 / 42
p0 0.006472 ± 7.147e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

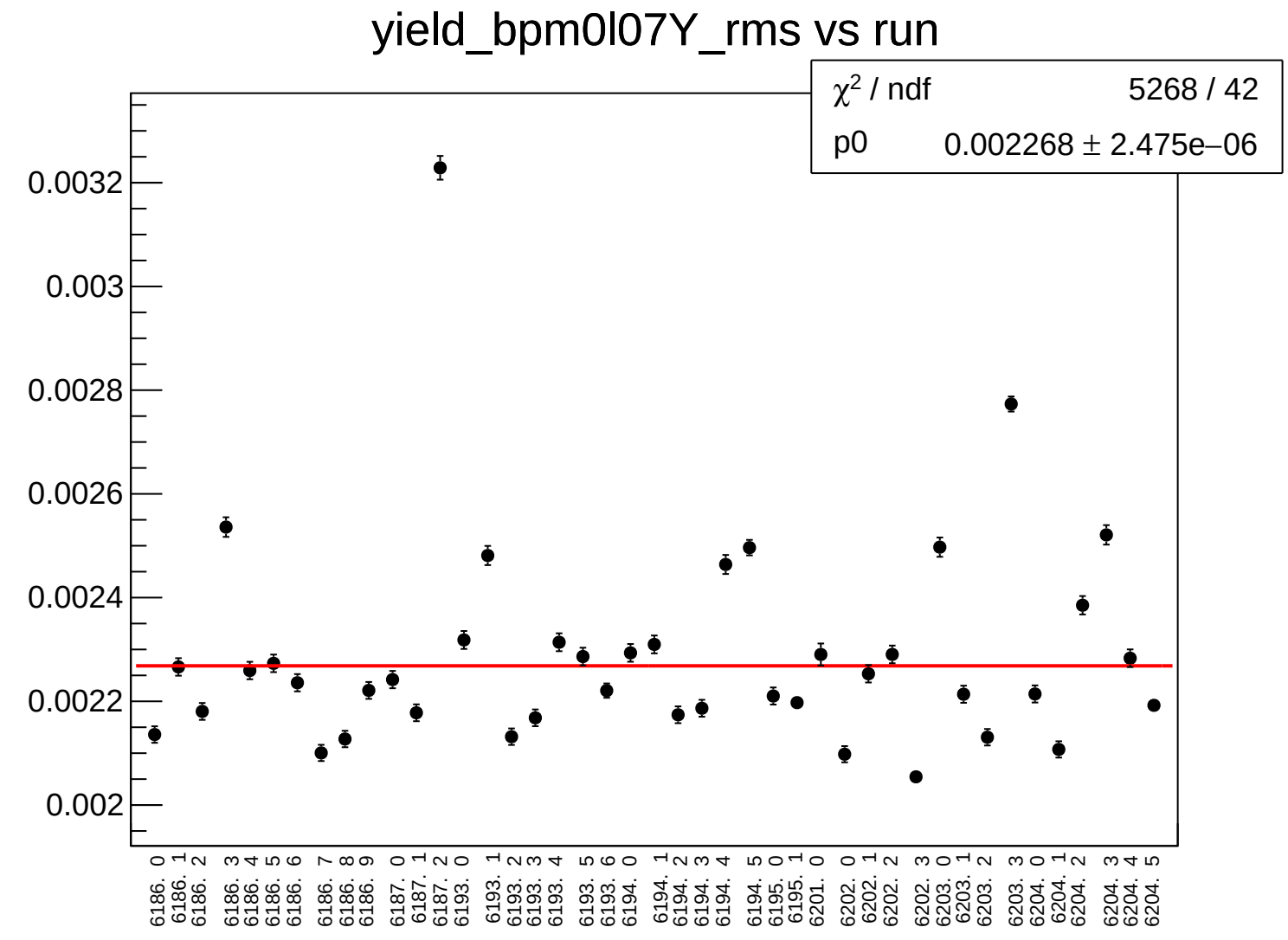

yield_bpm0l06Y_mean vs run
χ² / ndf 3.872e+06 / 42
p0 −1.398 ± 4.224e−06
−1.38
−1.385
−1.39
−1.395
−1.4
−1.405
−1.41
−1.415
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 118.1
Std Dev 0
600
400
200
0
−200
−400
−600
pull1D
Entries 43
Mean 3.551
Std Dev 1.408
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

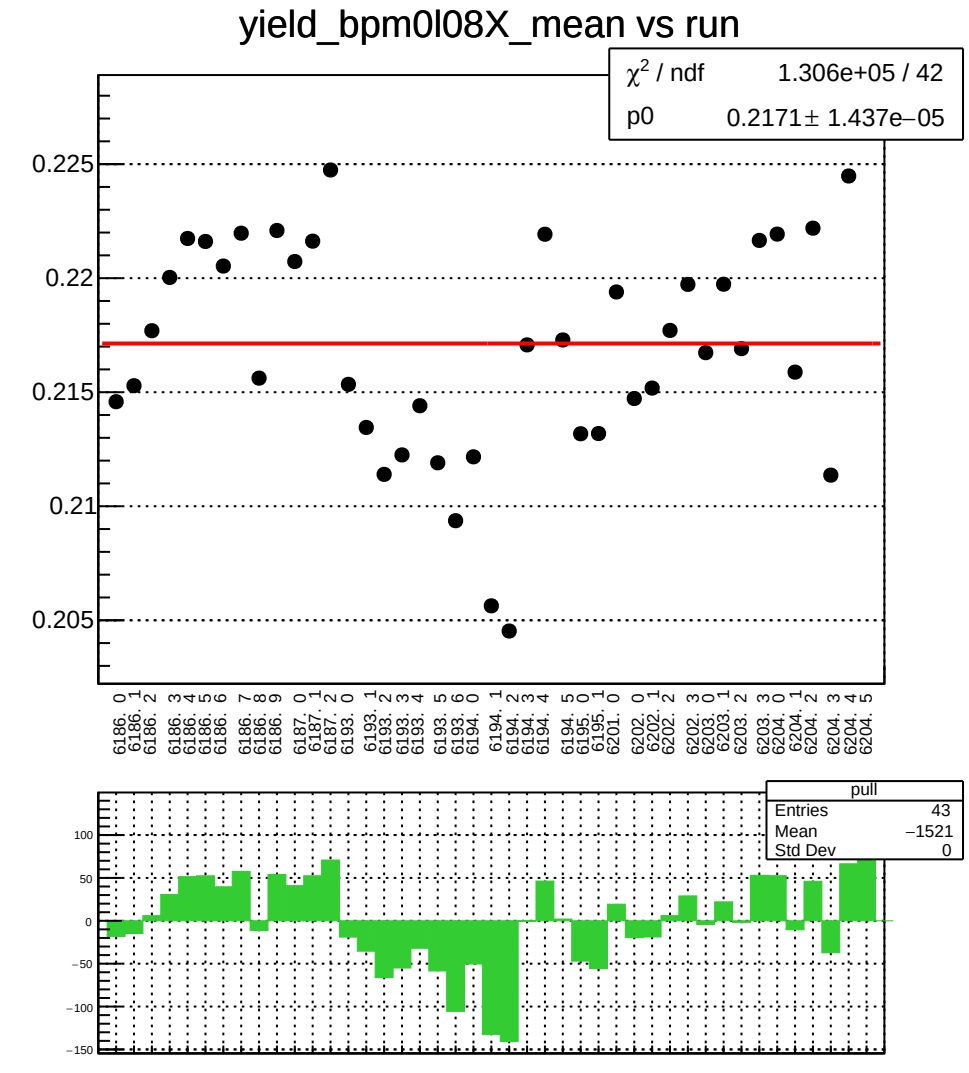

yield_bpm0l06Y_rms vs run
χ² / ndf 4.32e+04 / 42
p0 0.002675 ± 2.987e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

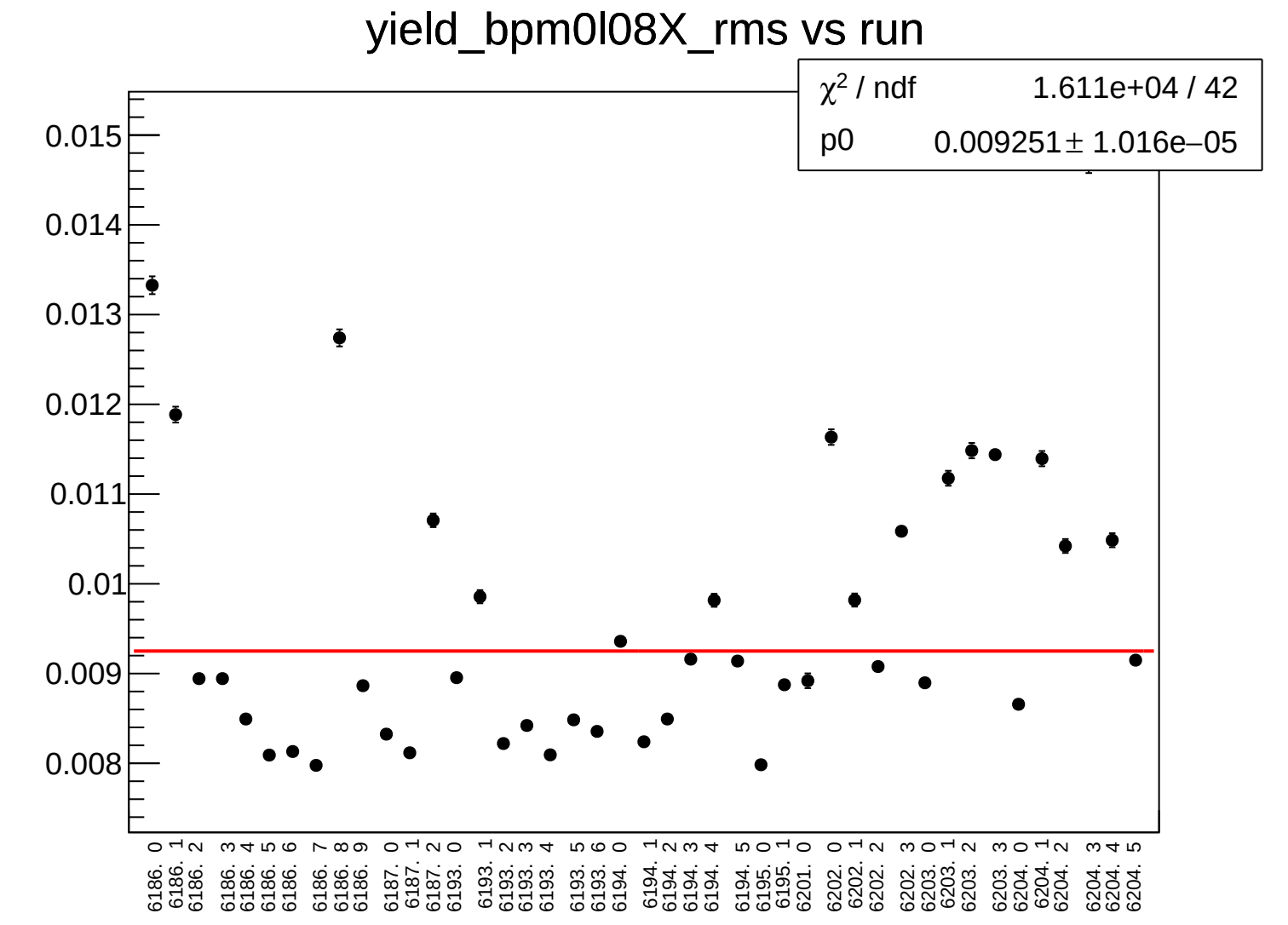

yield_bpm0l07X_mean vs run
χ² / ndf 8.729e+05 / 42
p0 −0.1731 ± 1.668e−05
−0.15
−0.16
−0.17
−0.18
−0.19
−0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −40.41
Std Dev 36.77
200
100
0
−100
−200
−300
pull1D
Entries 43
Mean −6.399
Std Dev 1.543
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

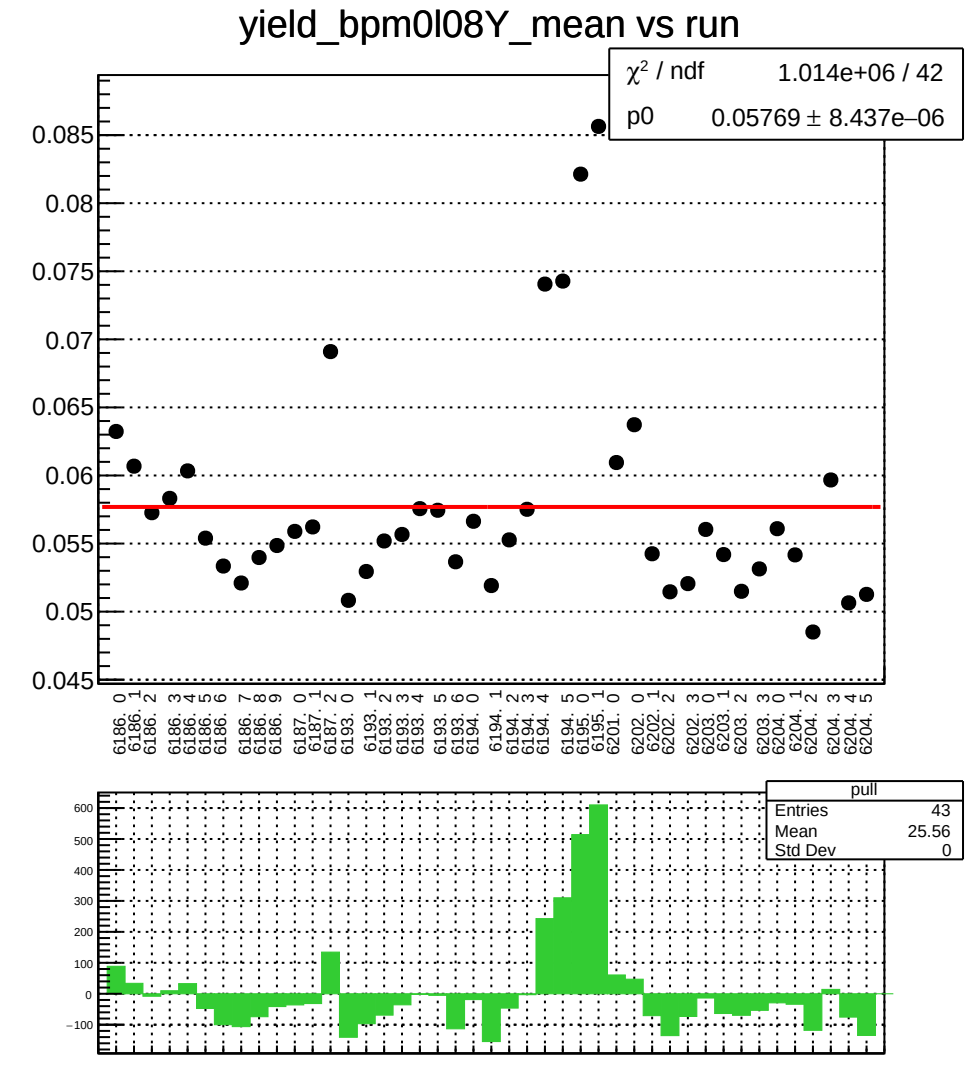

yield_bpm0l07X_rms vs run
χ² / ndf 1.228e+04 / 42
p0 0.01077 ± 1.18e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

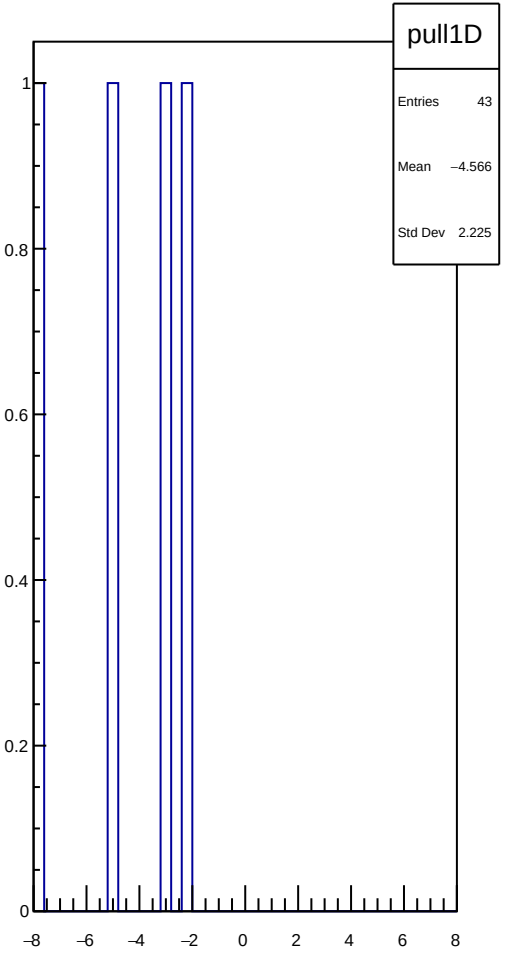

yield_bpm0l07Y_mean vs run
χ² / ndf 1.012e+06 / 42
p0 0.7601± 3.5e−06
0.768
0.766
0.764
0.762
0.76
0.758
0.756
0.754
0.752
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −389.5
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 43
Mean 1.124
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

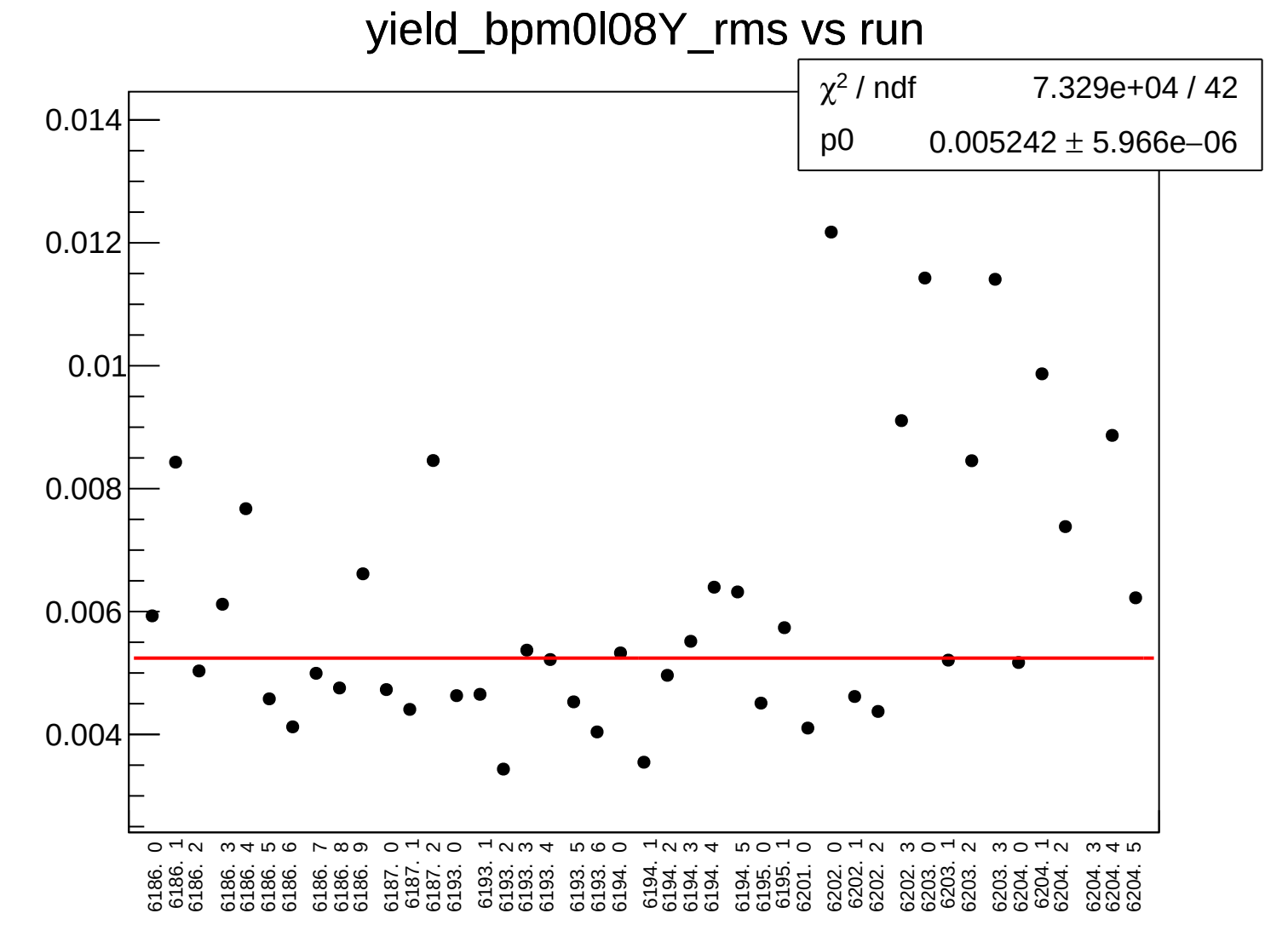

yield_bpm0l07Y_rms vs run
χ² / ndf 5268 / 42
p0 0.002268 ± 2.475e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

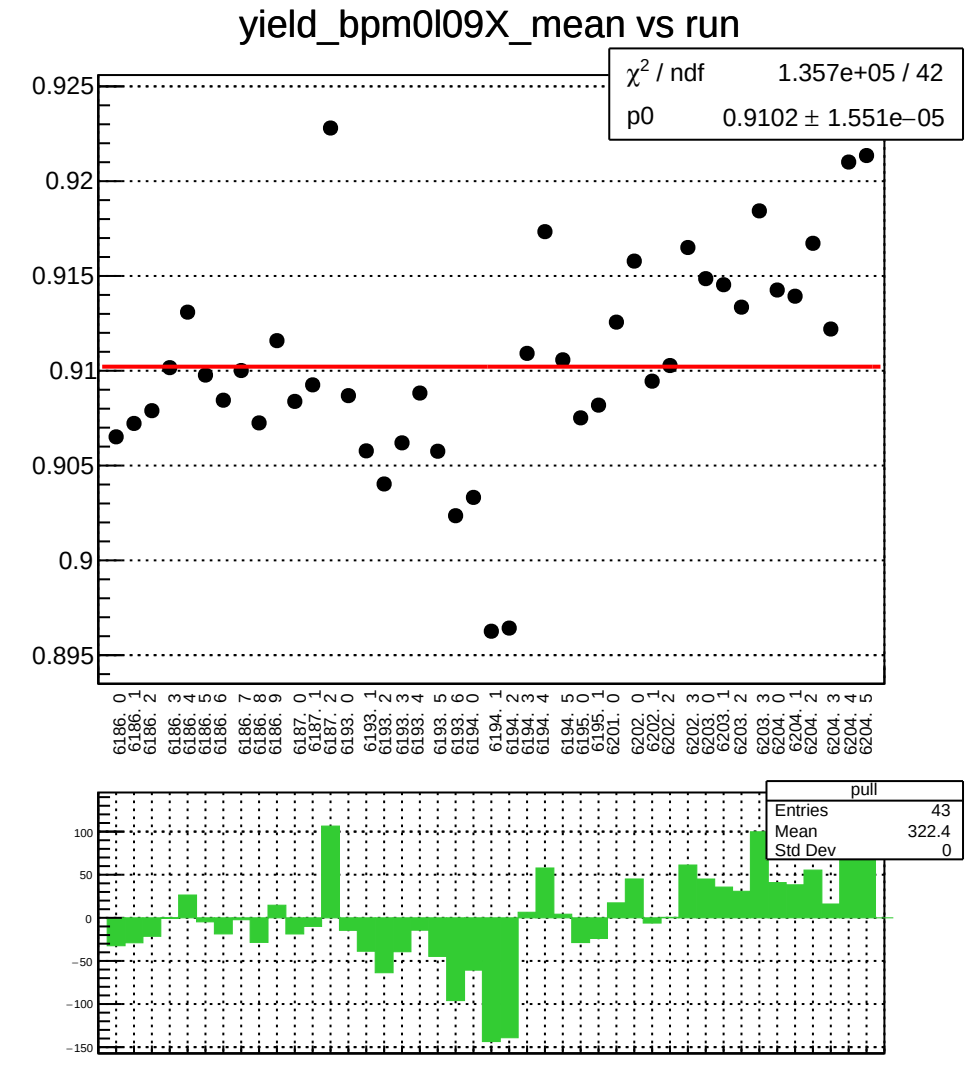

yield_bpm0l08X_mean vs run
χ² / ndf 1.306e+05 / 42
p0 0.2171 ± 1.437e−05
0.225
0.22
0.215
0.21
0.205
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1521
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 43
Mean 1.202
Std Dev 3.852
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

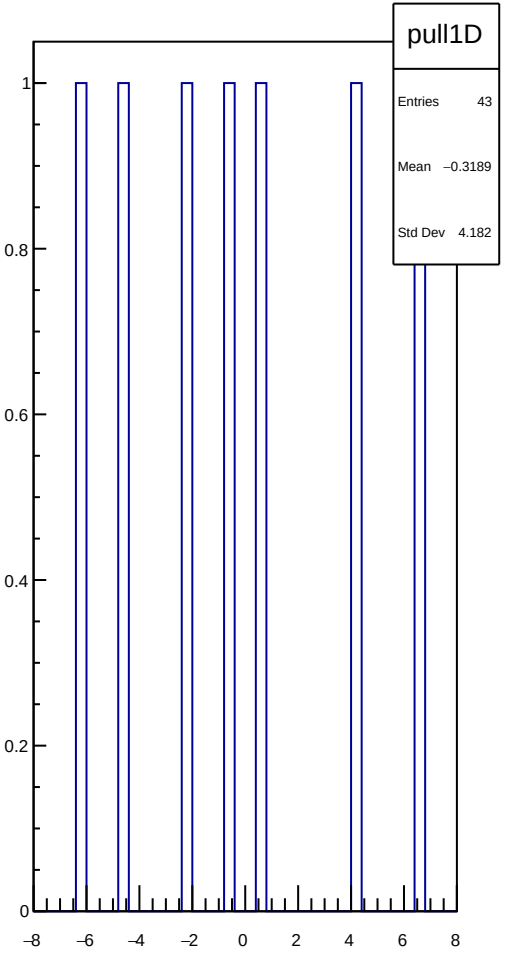

yield_bpm0l08X_rms vs run
χ² / ndf 1.611e+04 / 42
p0 0.009251 ± 1.016e−05
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

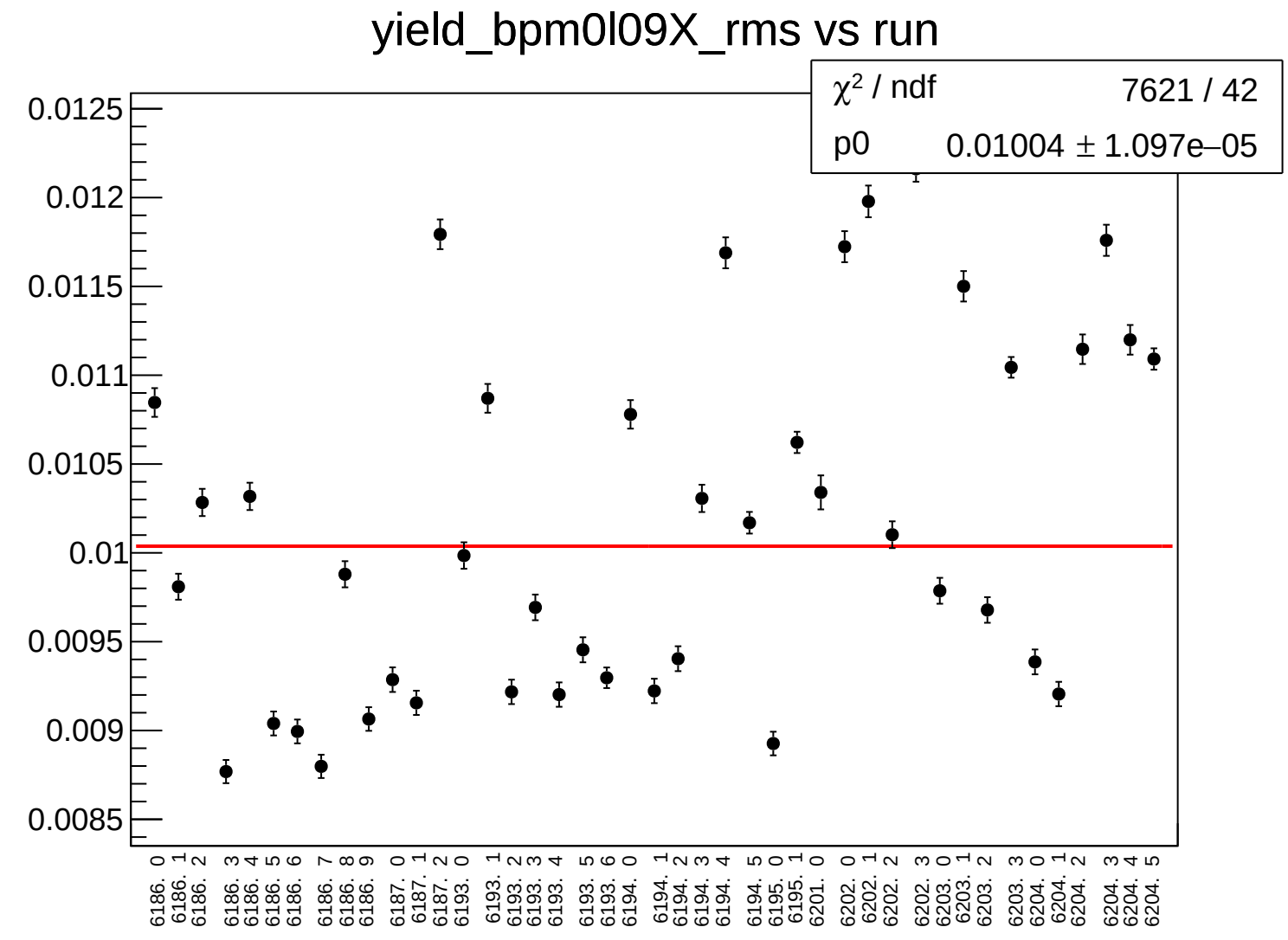

yield_bpm0l08Y_mean vs run
χ² / ndf 1.014e+06 / 42
p0 0.05769 ± 8.437e−06
0.085
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 25.56
Std Dev 0
600
500
400
300
200
100
0
−100

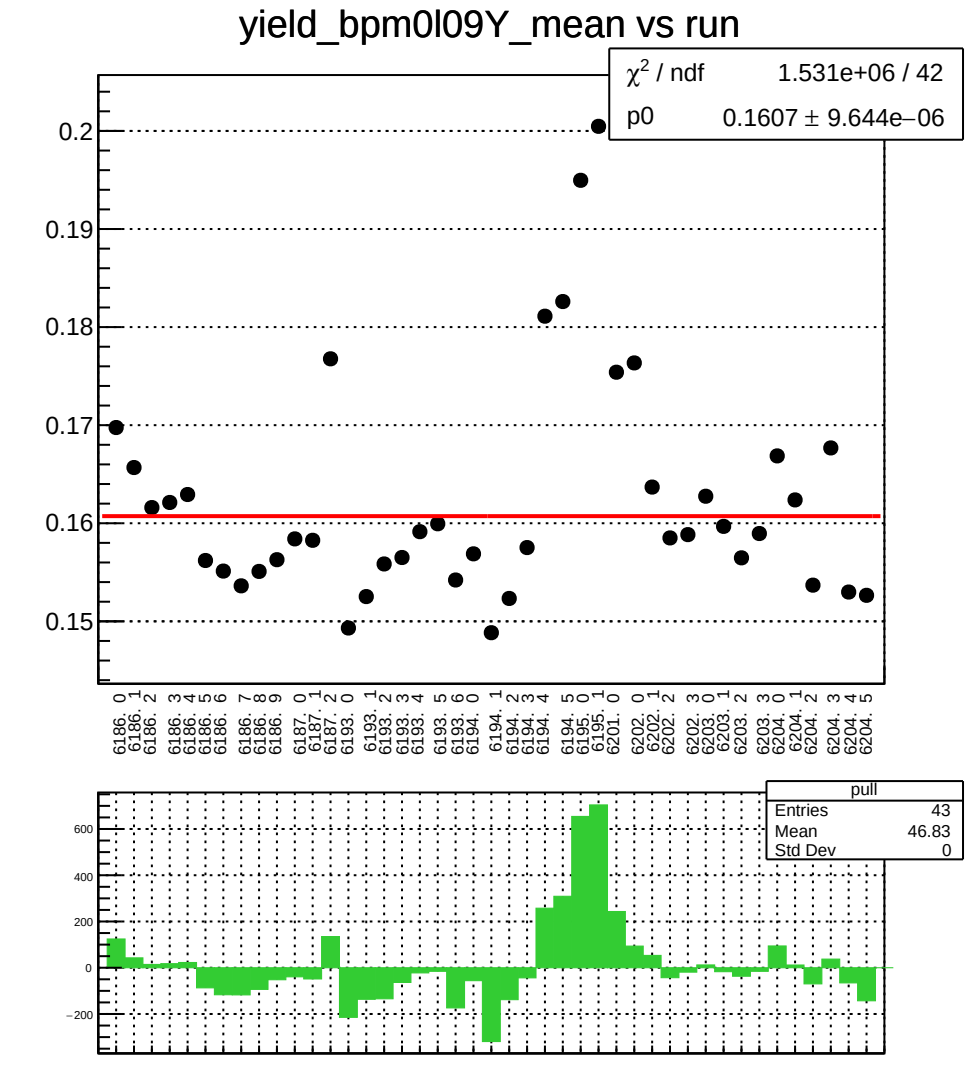

pull1D
Entries 43
Mean −4.566
Std Dev 2.225
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

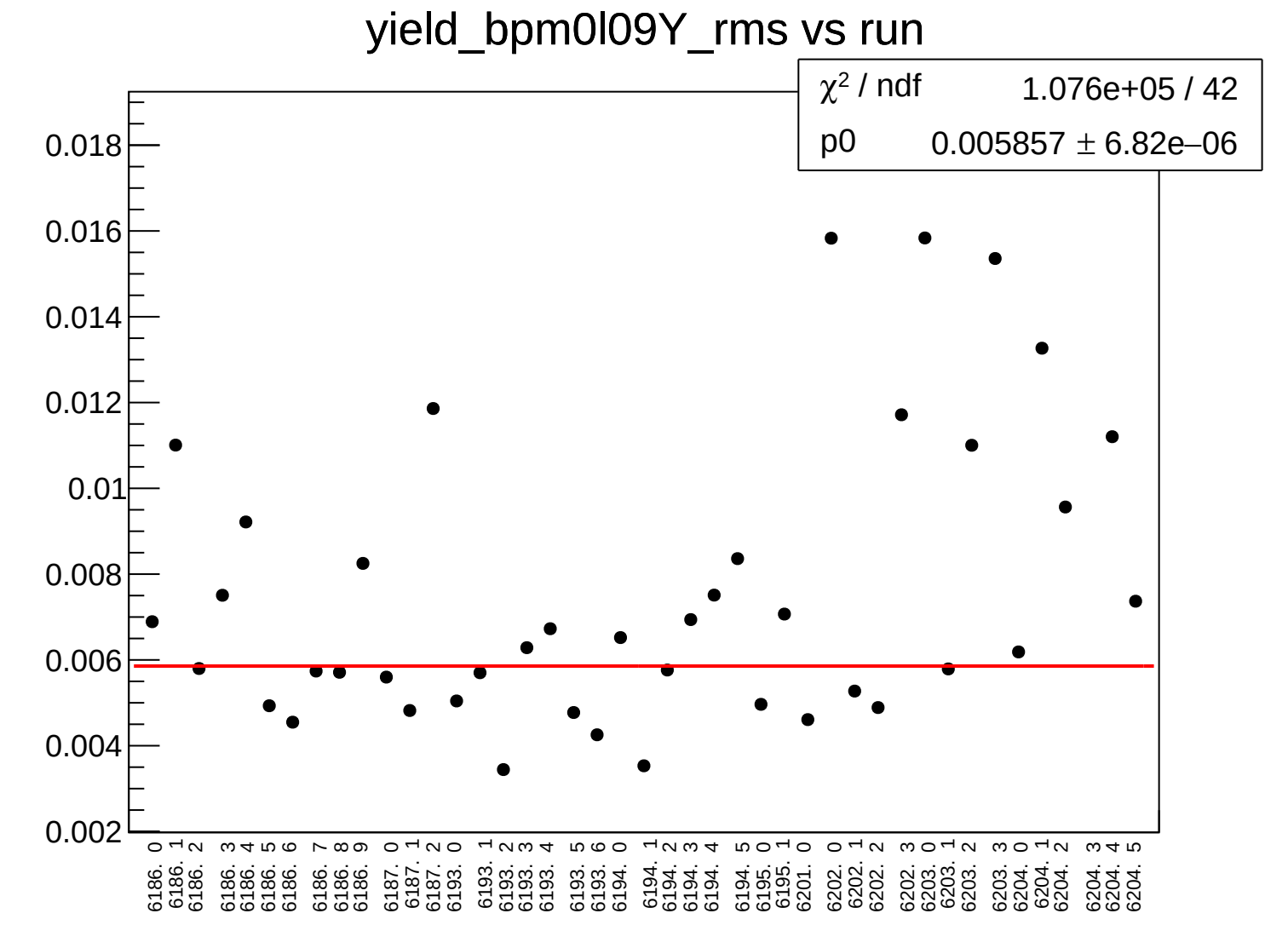

yield_bpm0l08Y_rms vs run
χ² / ndf 7.329e+04 / 42
p0 0.005242 ± 5.966e−06
0.014
0.012
0.01
0.008
0.006
0.004
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

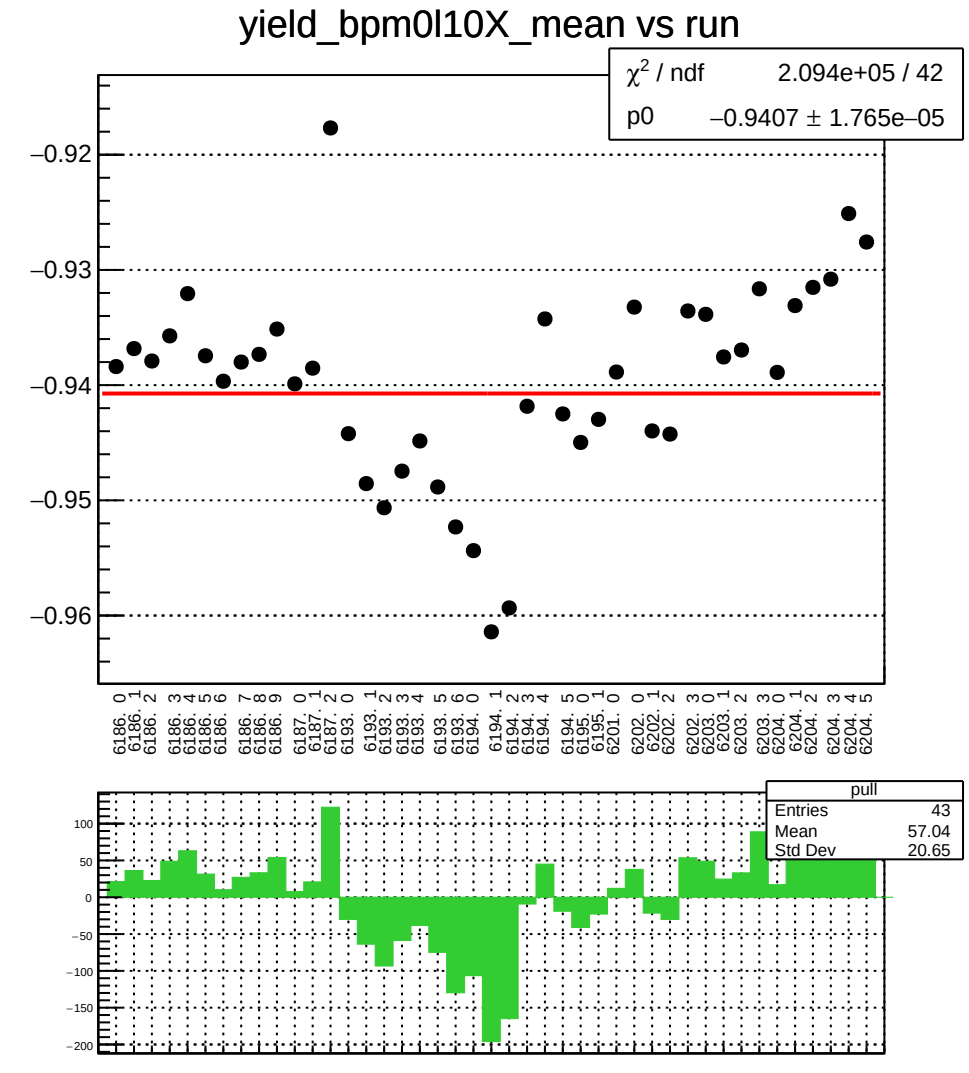

yield_bpm0l09X_mean vs run
χ² / ndf 1.357e+05 / 42
p0 0.9102 ± 1.551e−05
0.925
0.92
0.915
0.91
0.905
0.9
0.895
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 322.4
Std Dev 0
100
50
0
−50
−100
−150

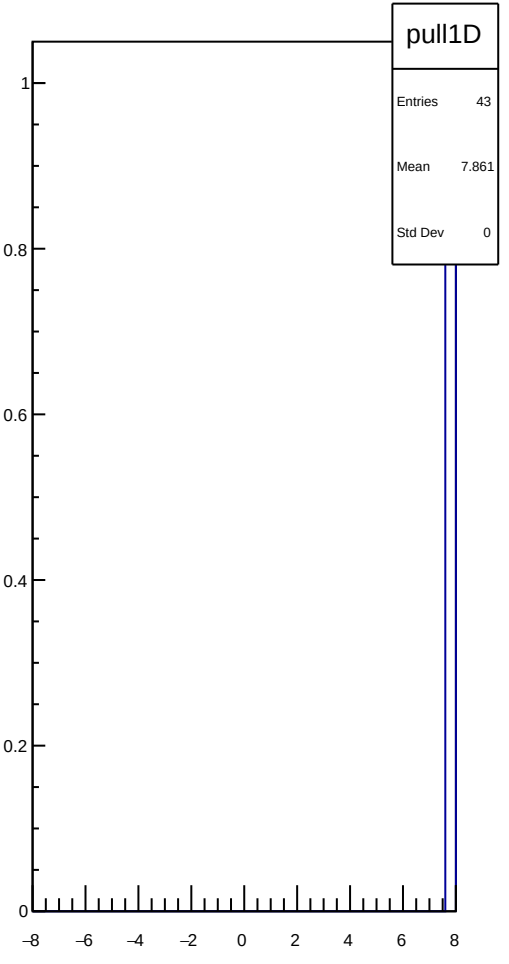

pull1D
Entries 43
Mean −0.3189
Std Dev 4.182
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

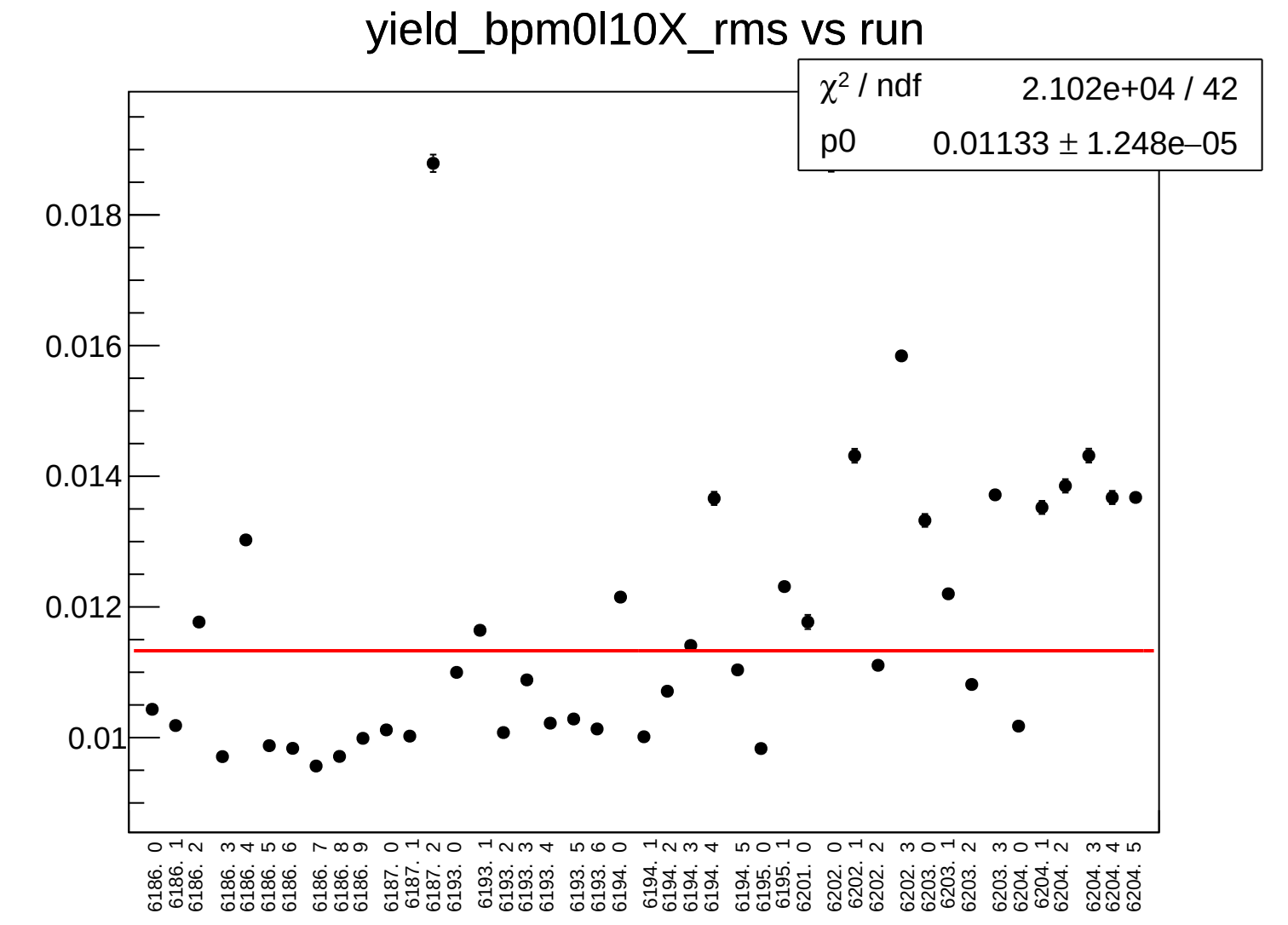

yield_bpm0l09X_rms vs run
χ² / ndf 7621 / 42
p0 0.01004 ± 1.097e–05
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

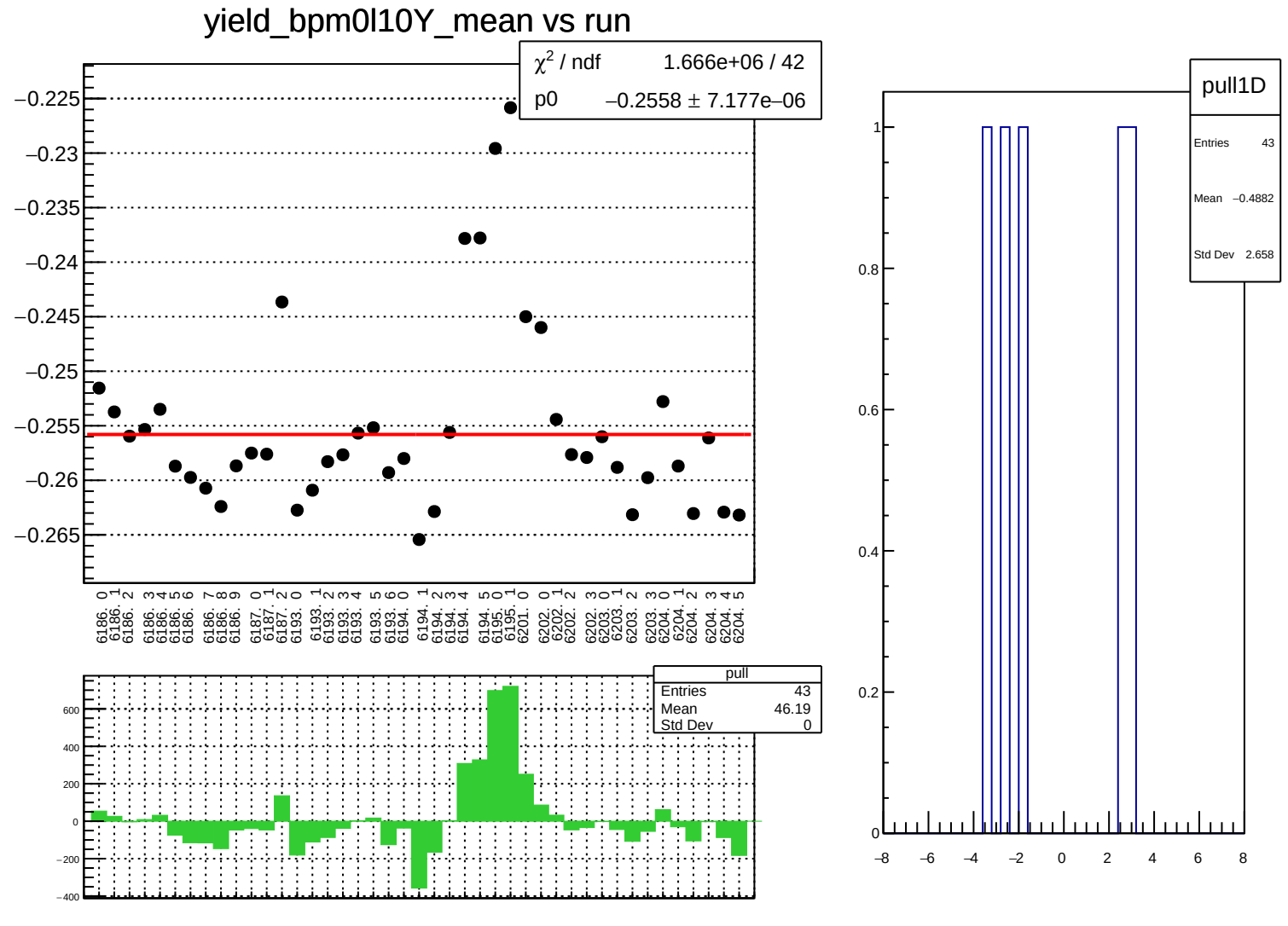

yield_bpm0l09Y_mean vs run
χ² / ndf 1.531e+06 / 42
p0 0.1607 ± 9.644e−06
0.2
0.19
0.18
0.17
0.16
0.15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 46.83
Std Dev 0
600
400
200
0
−200
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

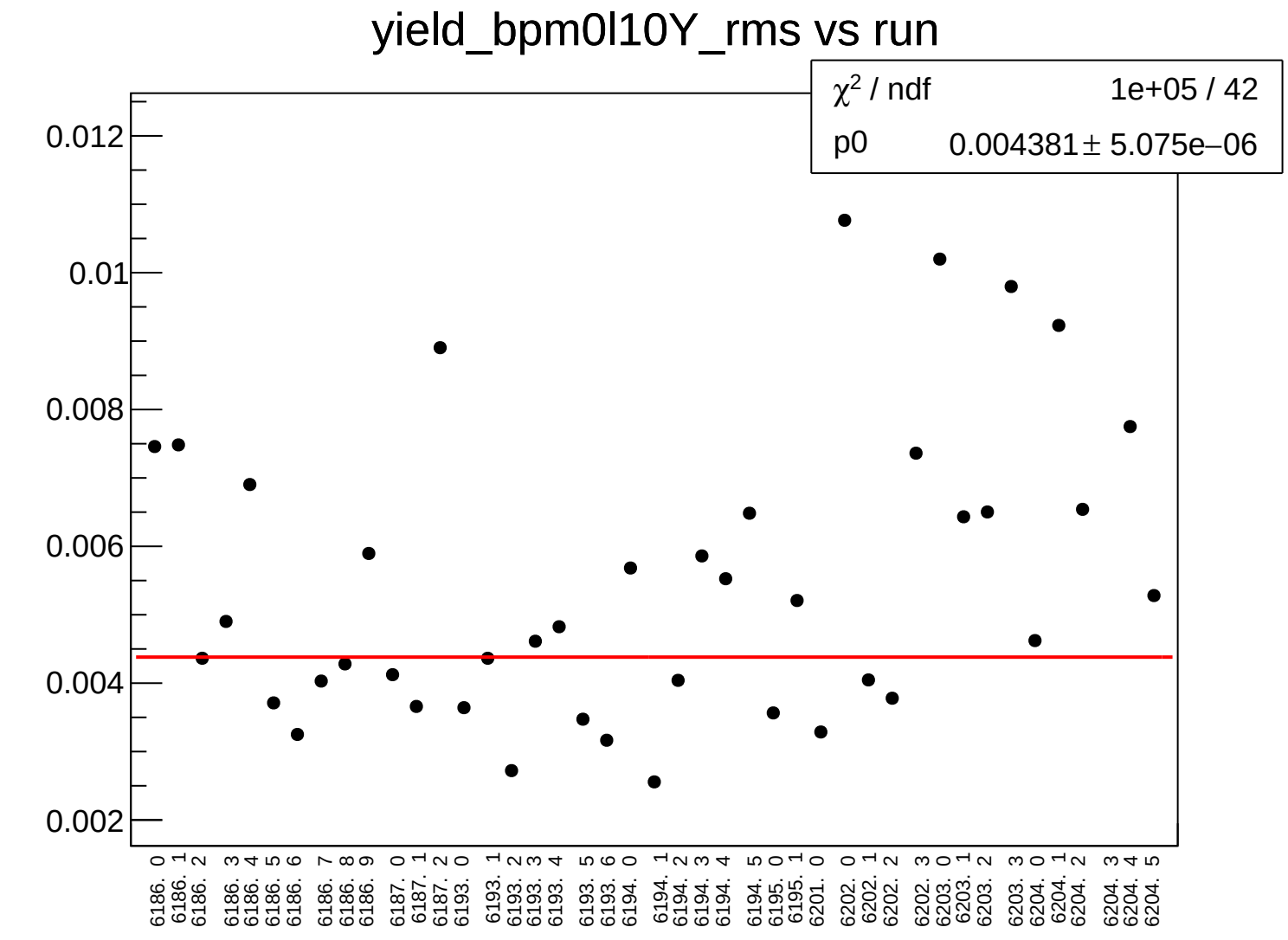

yield_bpm0l09Y_rms vs run
χ² / ndf 1.076e+05 / 42
p0 0.005857 ± 6.82e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

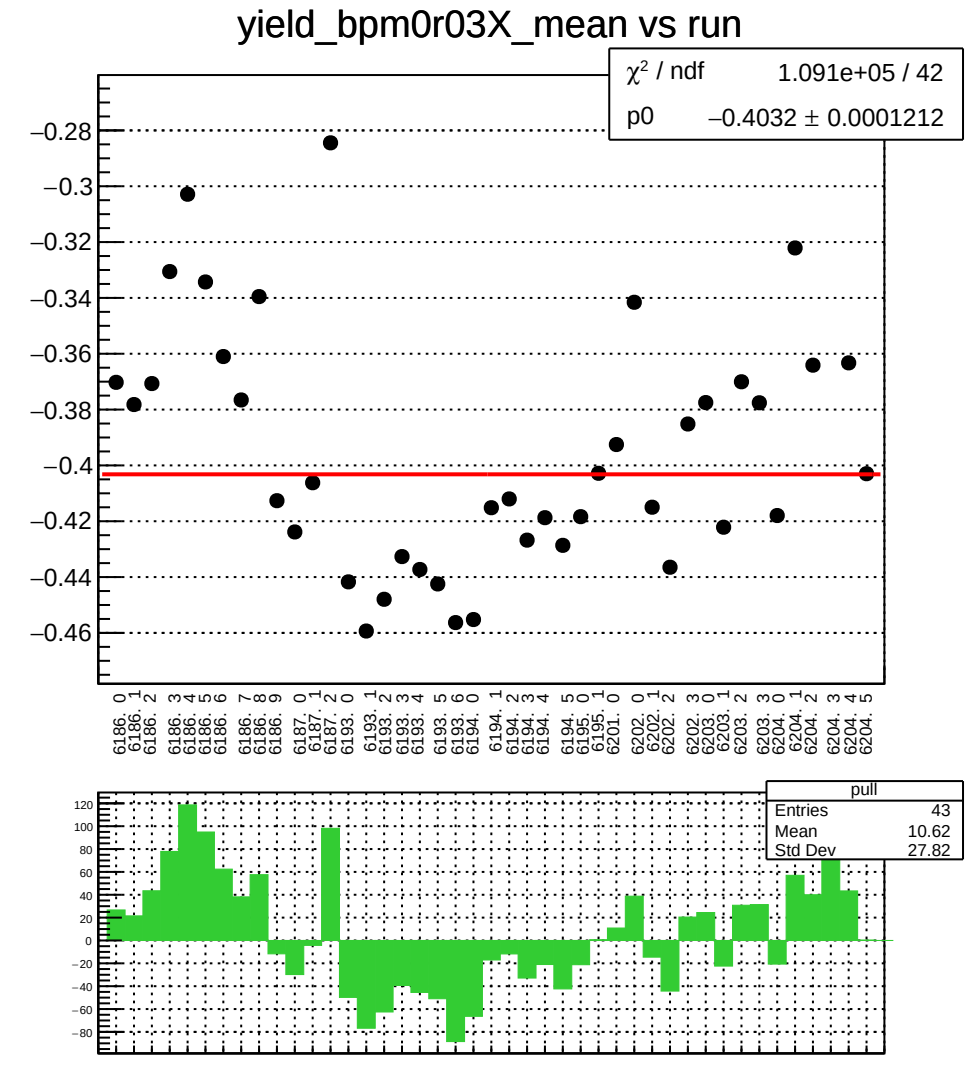

yield_bpm0l10X_mean vs run
χ² / ndf 2.094e+05 / 42
p0 −0.9407 ± 1.765e−05
−0.92
−0.93
−0.94
−0.95
−0.96
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 57.04
Std Dev 20.65
100
50
0
−50
−100
−150
−200

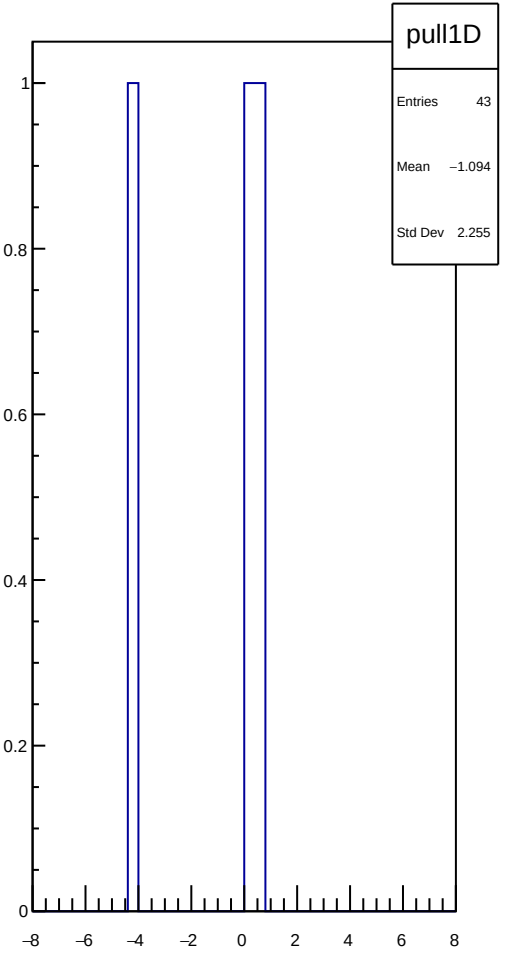

pull1D
Entries 43
Mean 7.861
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

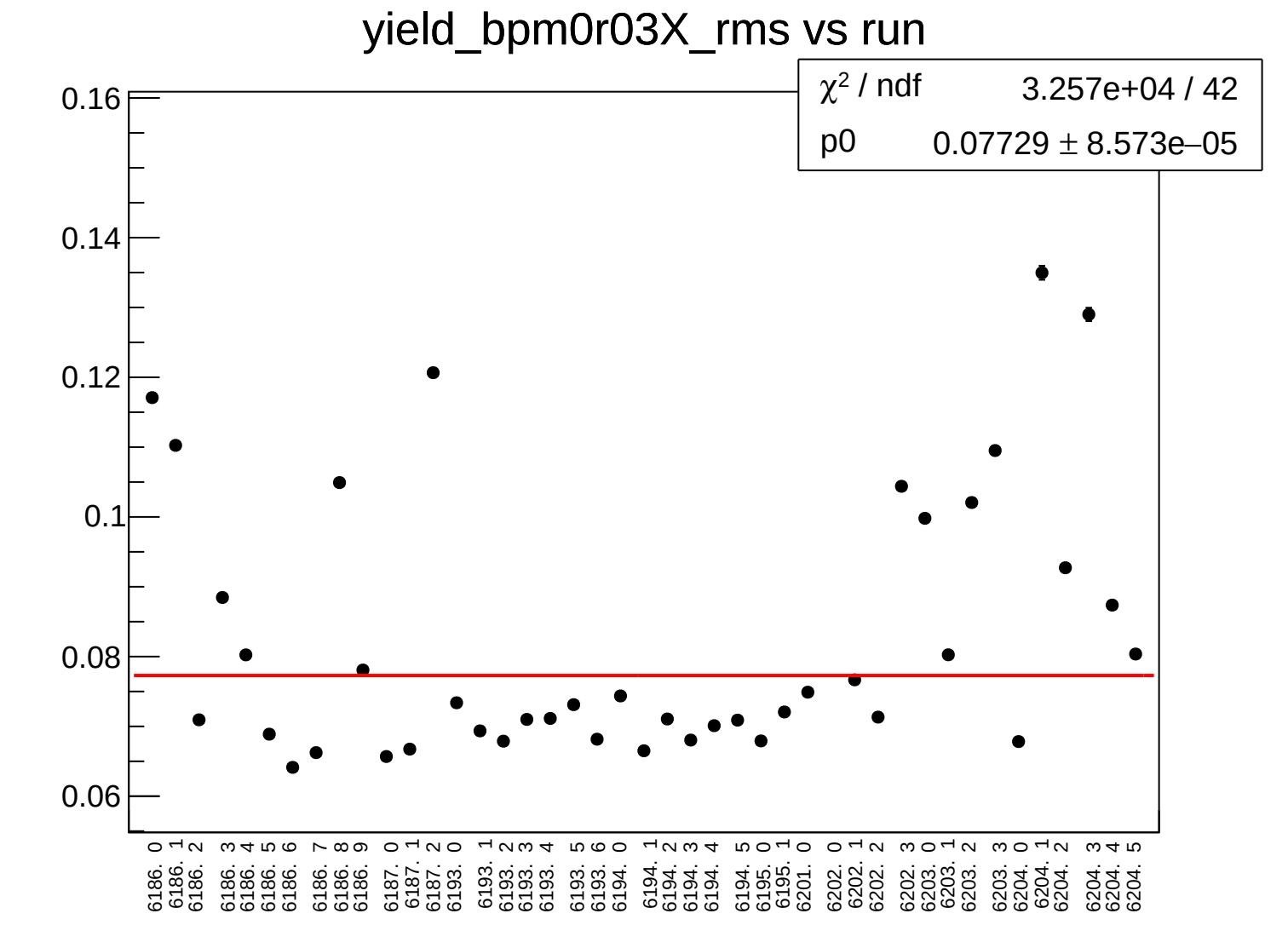

yield_bpm0l10X_rms vs run
χ² / ndf 2.102e+04 / 42
p0 0.01133 ± 1.248e–05
0.018
0.016
0.014
0.012
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

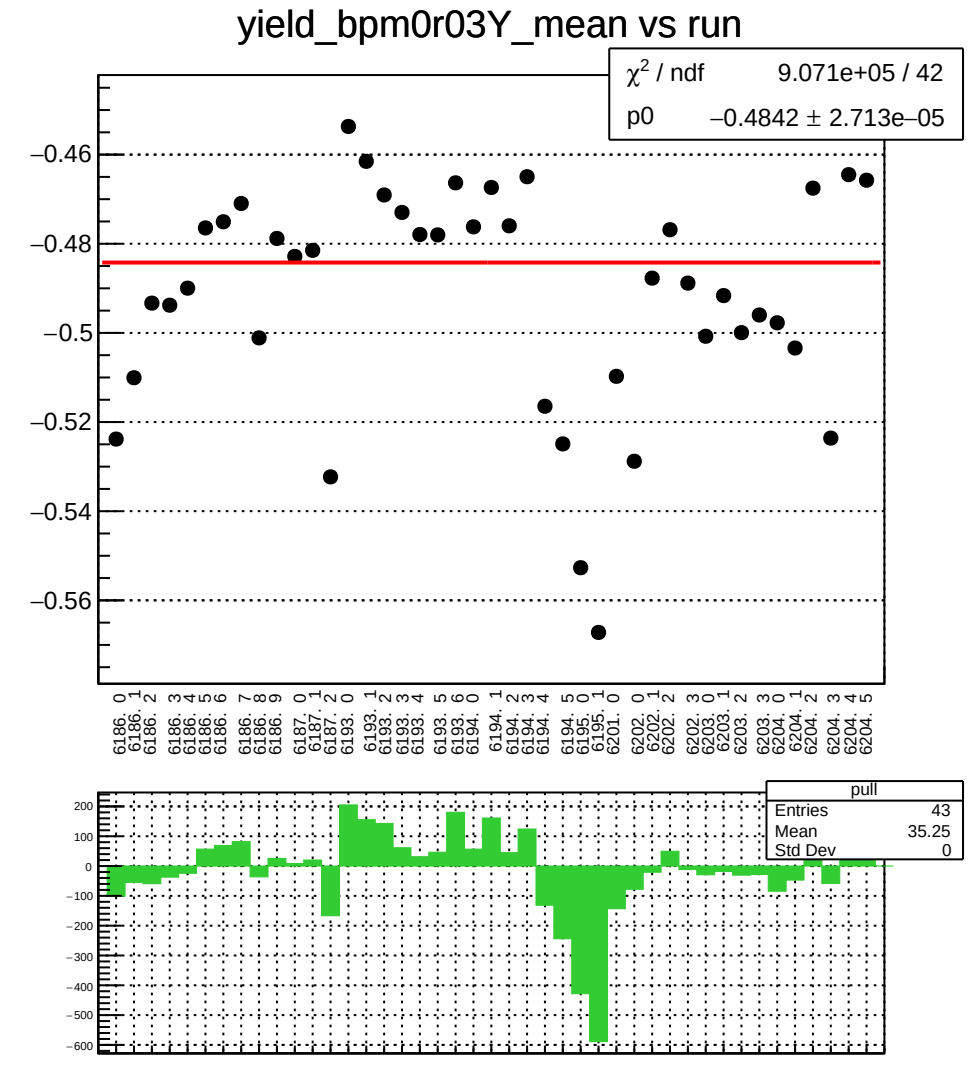

yield_bpm0l10Y_mean vs run
χ² / ndf 1.666e+06 / 42
p0 −0.2558 ± 7.177e−06
−0.225
−0.23
−0.235
−0.24
−0.245
−0.25
−0.255
−0.26
−0.265
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 46.19
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 43
Mean −0.4882
Std Dev 2.658
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

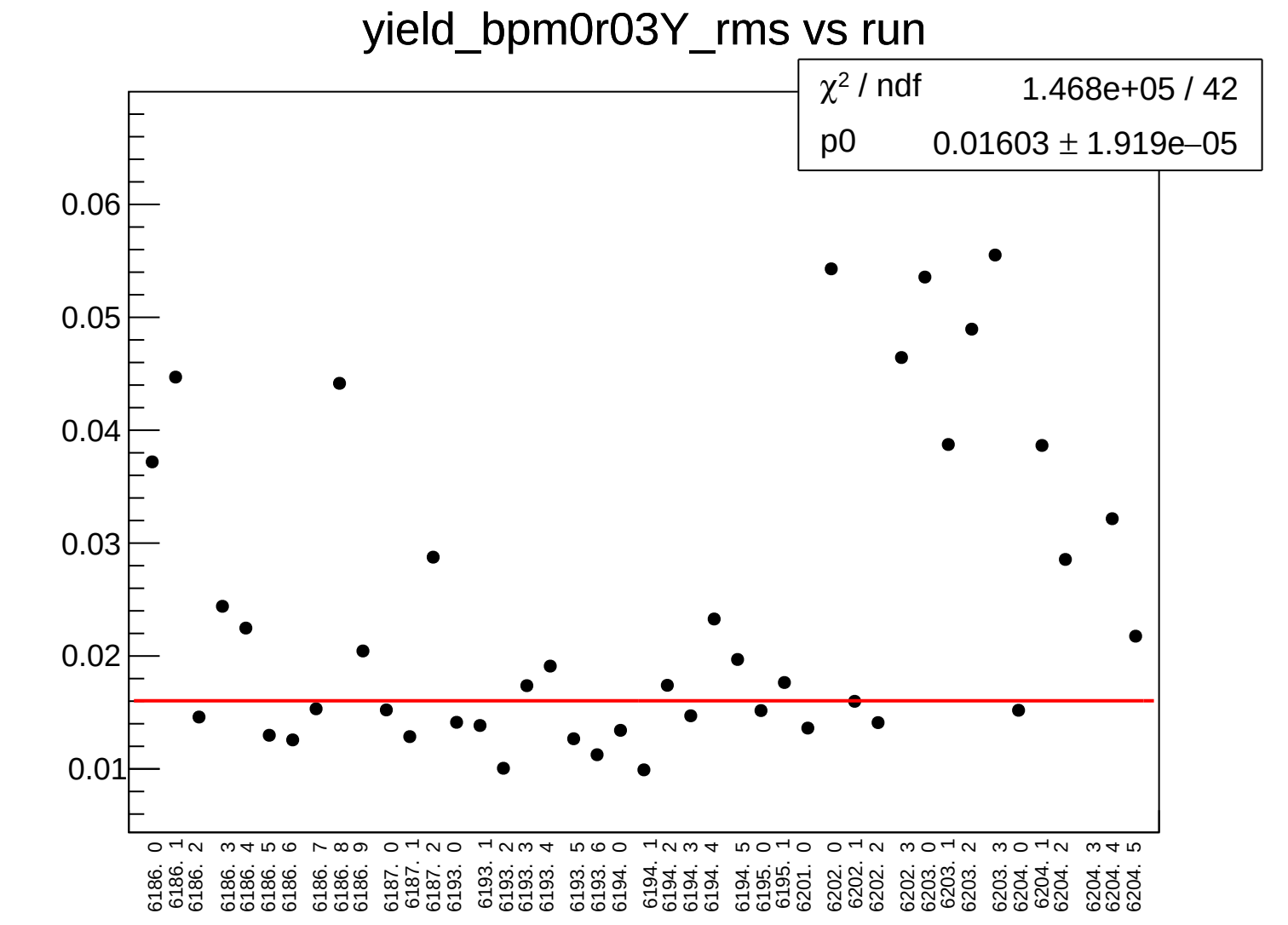

yield_bpm0l10Y_rms vs run
χ² / ndf 1e+05 / 42
p0 0.004381 ± 5.075e−06
0.012
0.01
0.008
0.006
0.004
0.002
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

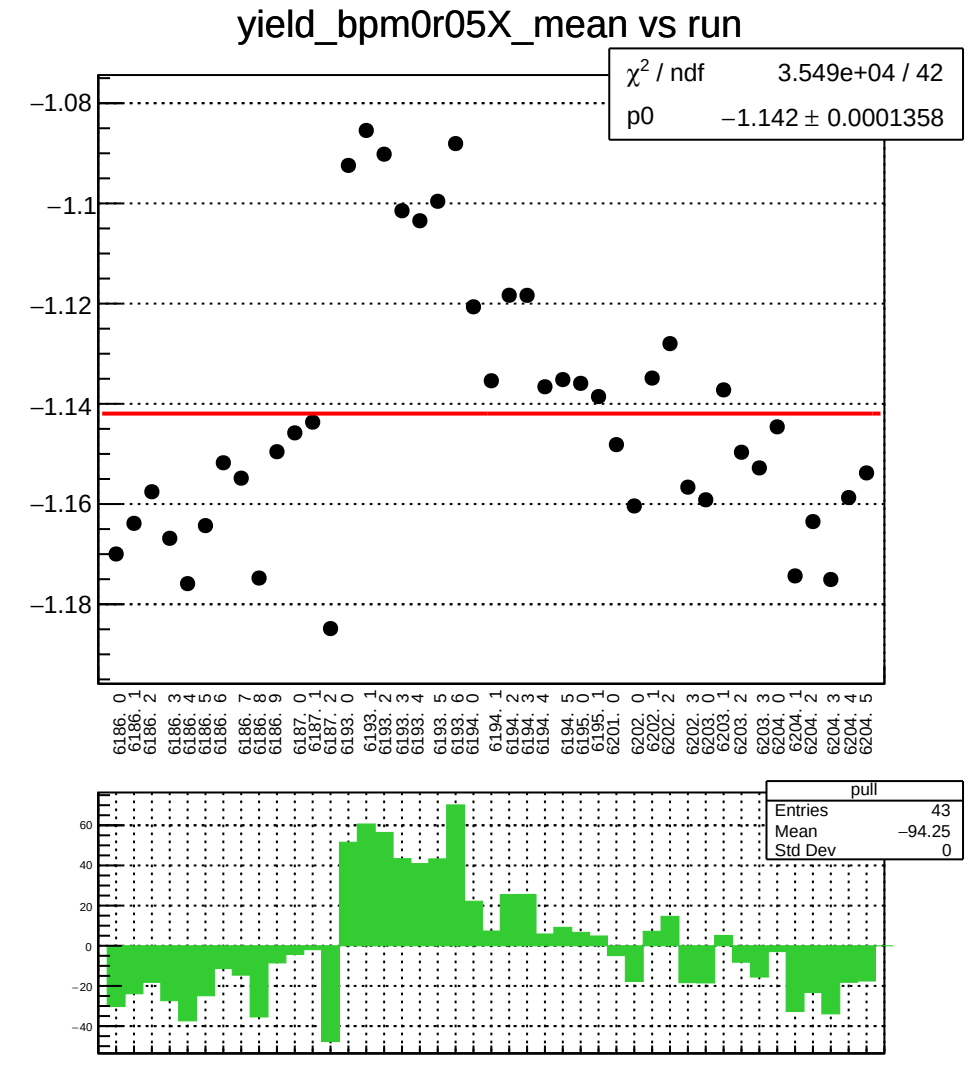

yield_bpm0r03X_mean vs run
χ² / ndf 1.091e+05 / 42
p0 −0.4032 ± 0.0001212
−0.28
−0.3
−0.32
−0.34
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 10.62
Std Dev 27.82
120
100
80
60
40
20
0
−20
−40
−60
−80

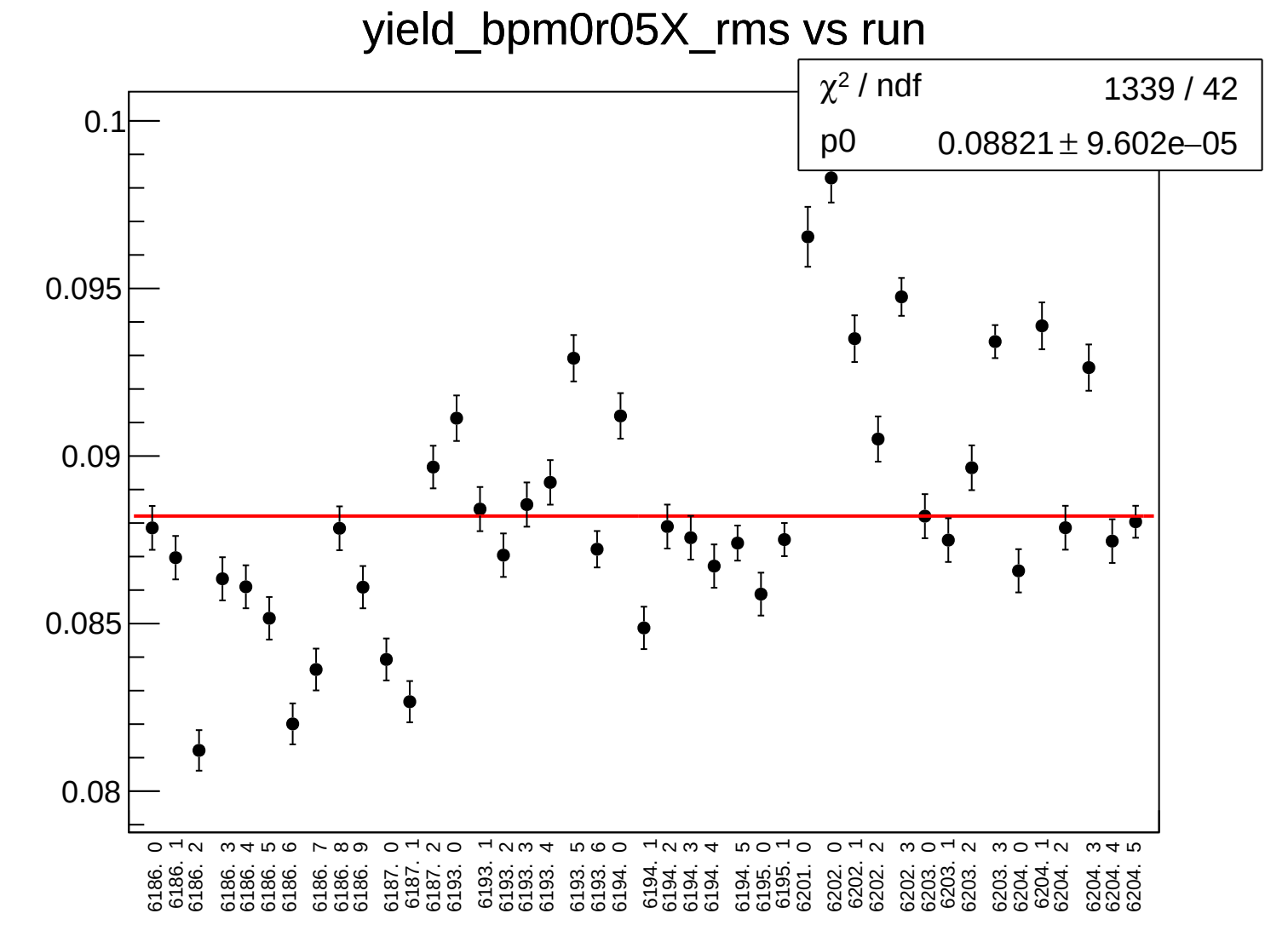

pull1D
Entries 43
Mean −1.094
Std Dev 2.255
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

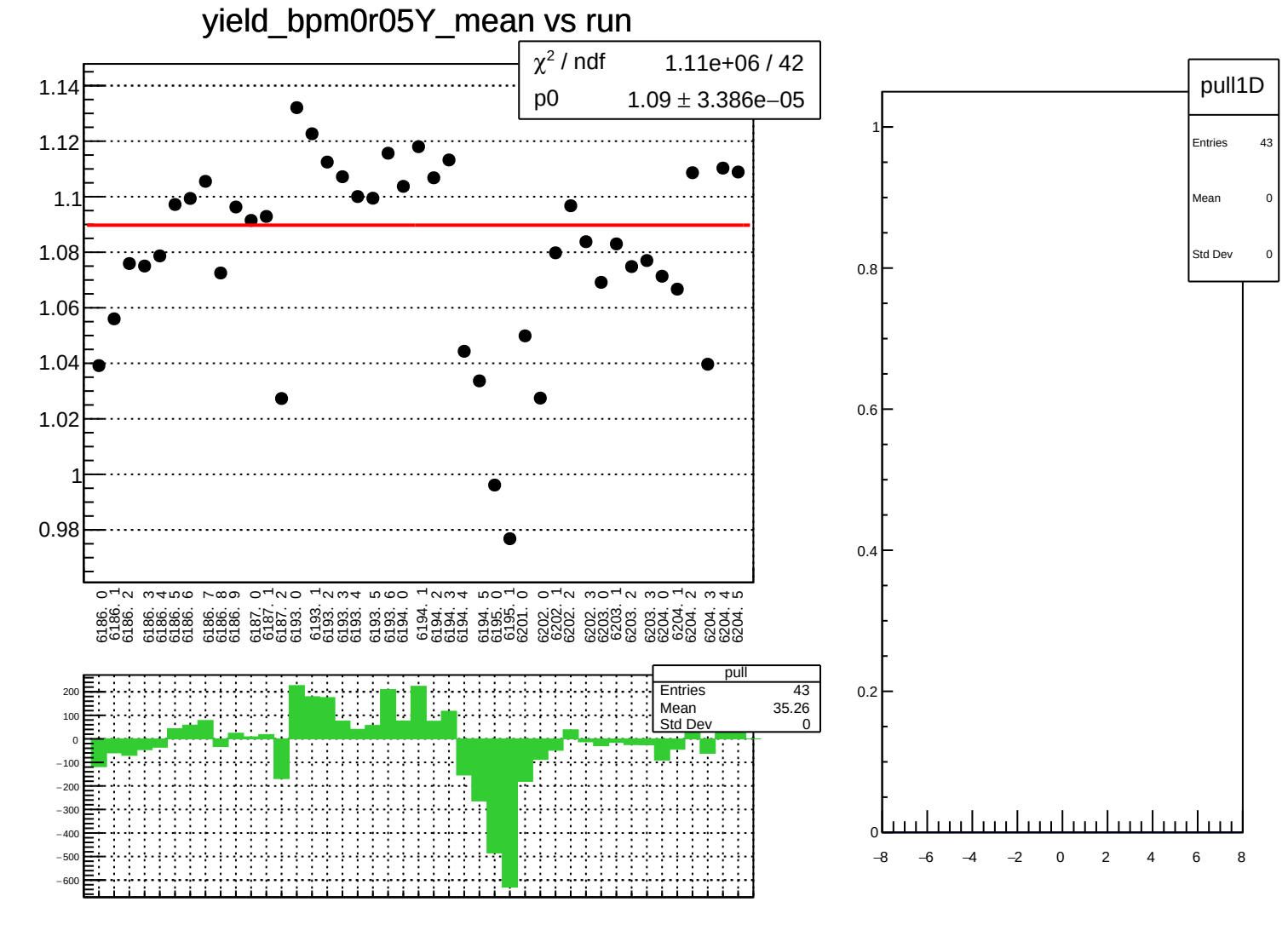

yield_bpm0r03X_rms vs run
χ² / ndf 3.257e+04 / 42
p0 0.07729 ± 8.573e–05
0.16
0.14
0.12
0.1
0.08
0.06
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

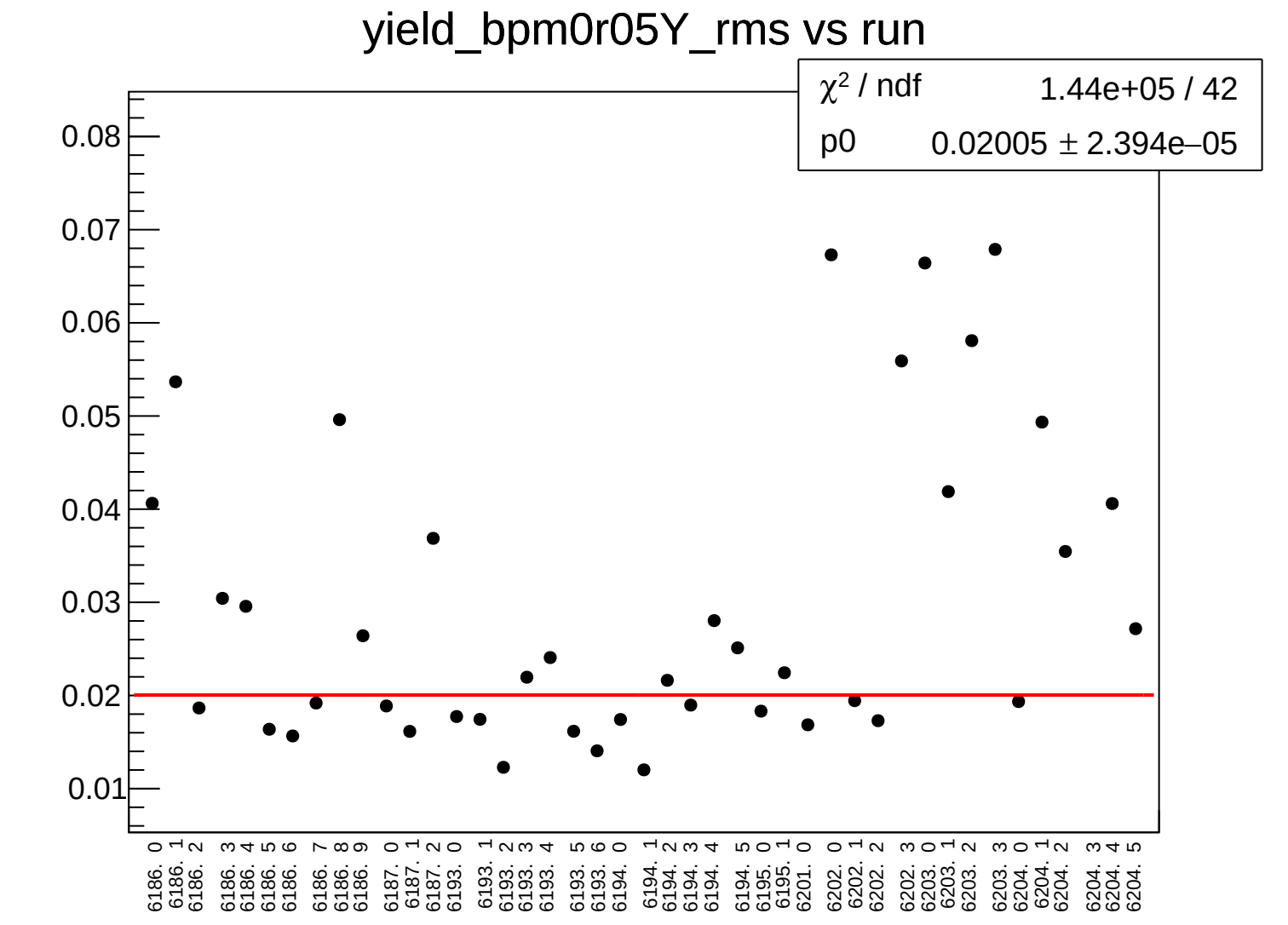

yield_bpm0r03Y_mean vs run
χ² / ndf 9.071e+05 / 42
p0 −0.4842 ± 2.713e−05
−0.46
−0.48
−0.5
−0.52
−0.54
−0.56
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 35.25
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

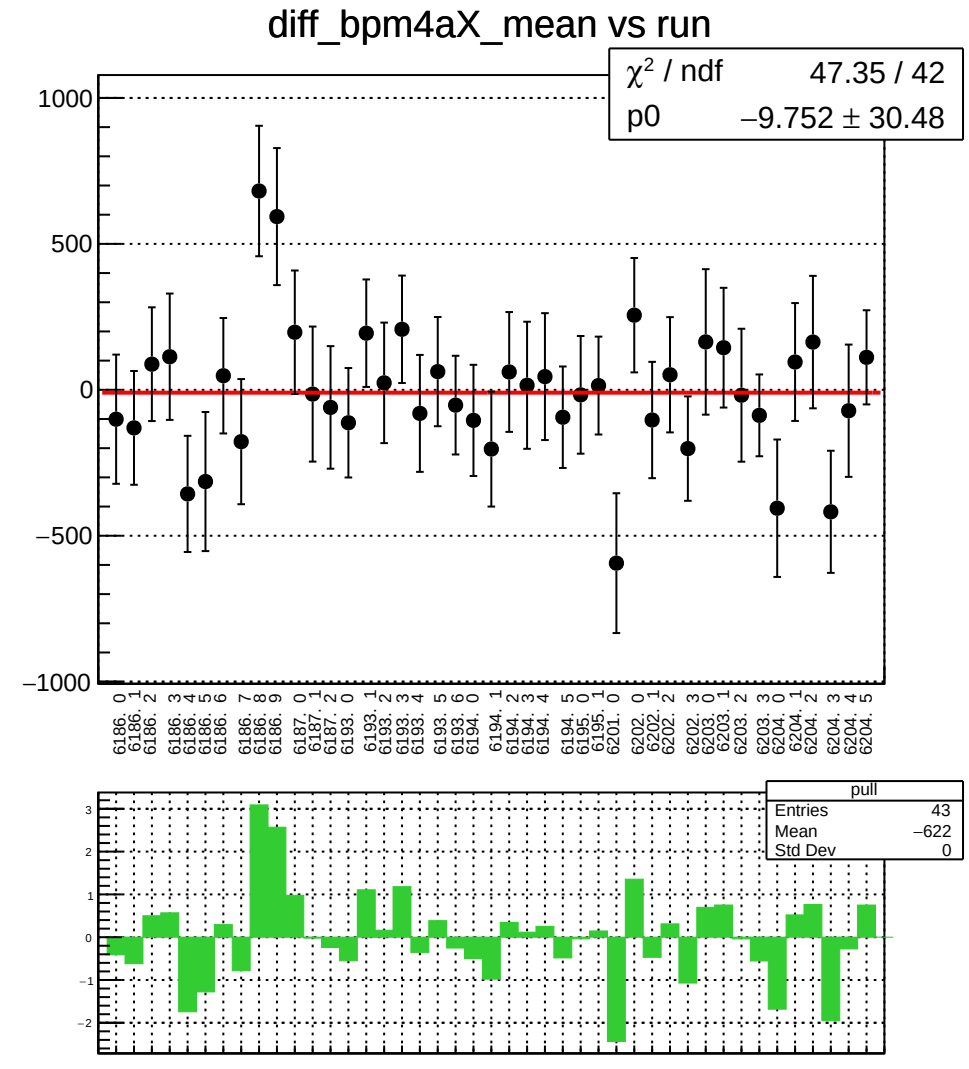

yield_bpm0r03Y_rms vs run
χ² / ndf 1.468e+05 / 42
p0 0.01603 ± 1.919e–05
0.06
0.05
0.04
0.03
0.02
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

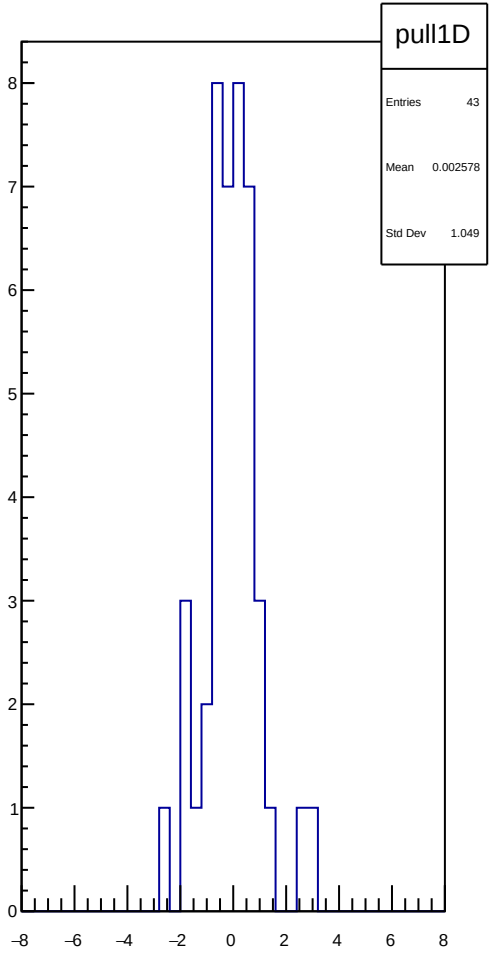

yield_bpm0r05X_mean vs run
χ² / ndf 3.549e+04 / 42
p0 −1.142 ± 0.0001358
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −94.25
Std Dev 0
60
40
20
0
−20
−40
pull1D
Entries 43
Mean 2.294
Std Dev 4.865
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

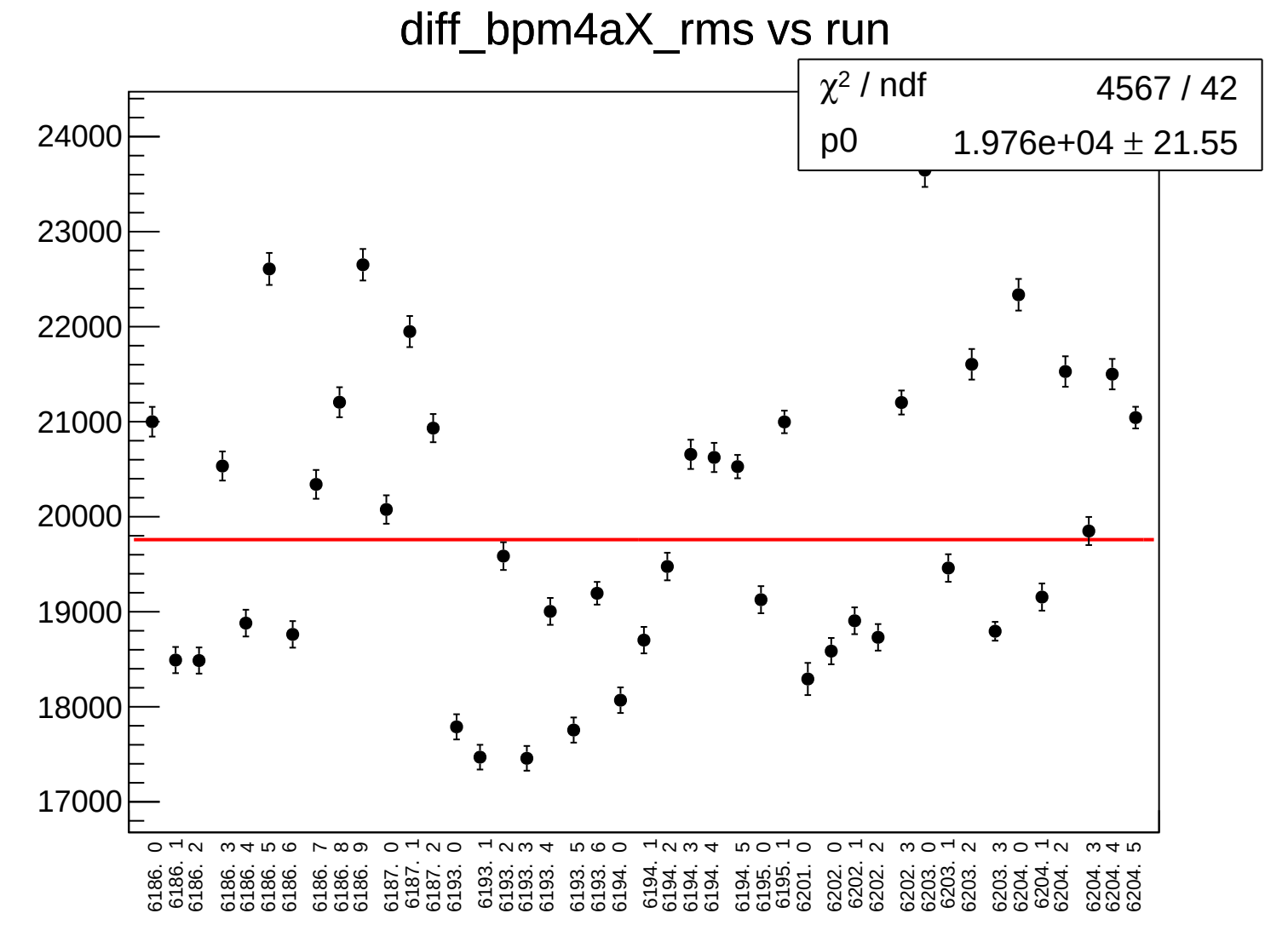

yield_bpm0r05X_rms vs run
χ² / ndf 1339 / 42
p0 0.08821 ± 9.602e–05
0.1
0.095
0.09
0.085
0.08
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

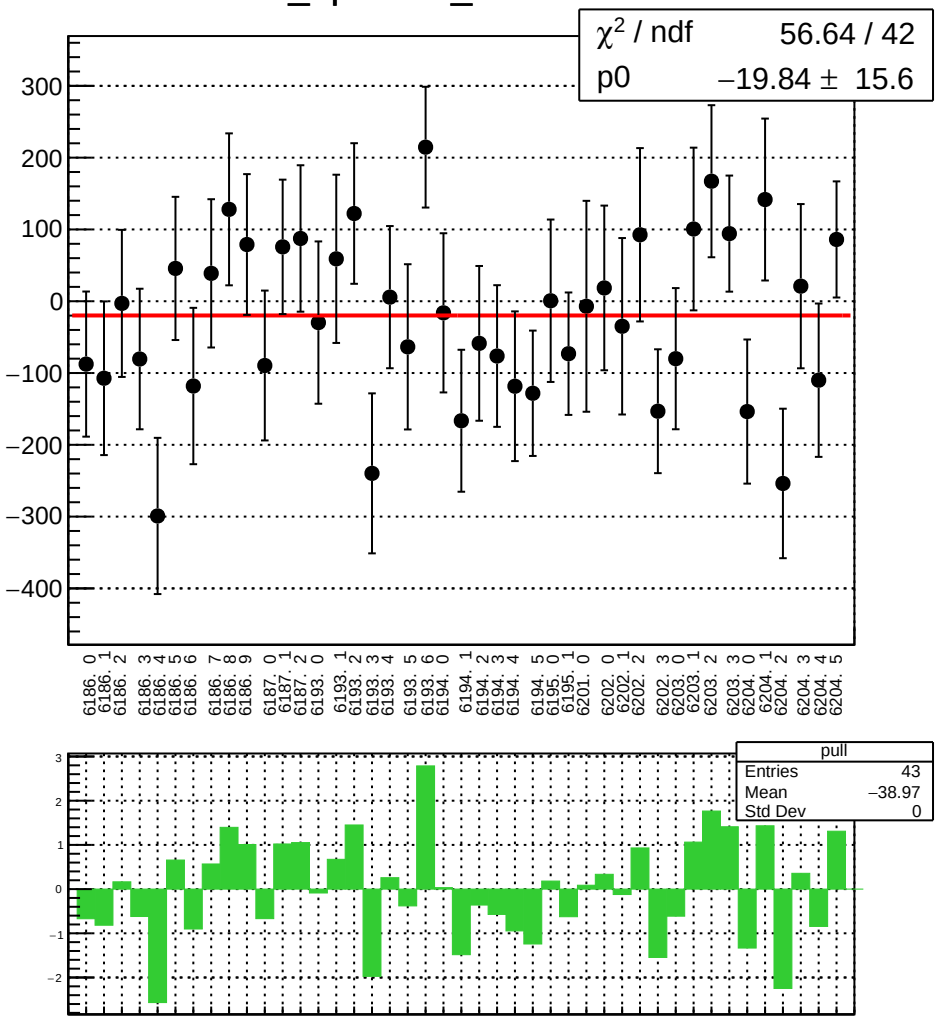

yield_bpm0r05Y_mean vs run
χ² / ndf 1.11e+06 / 42
p0 1.09 ± 3.386e−05
pull
Entries 43
Mean 35.26
Std Dev 0
pull1D
Entries 43
Mean 0
Std Dev 0

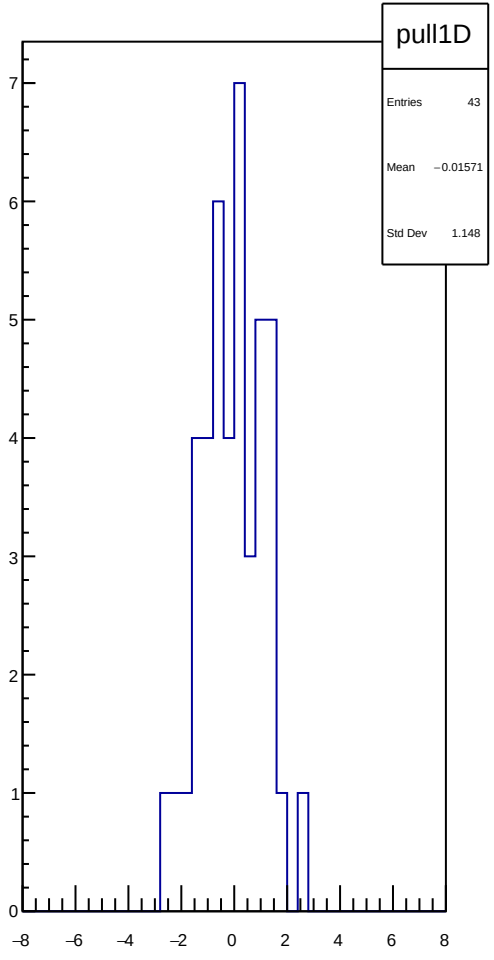

yield_bpm0r05Y_rms vs run
χ² / ndf 1.44e+05 / 42
p0 0.02005 ± 2.394e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

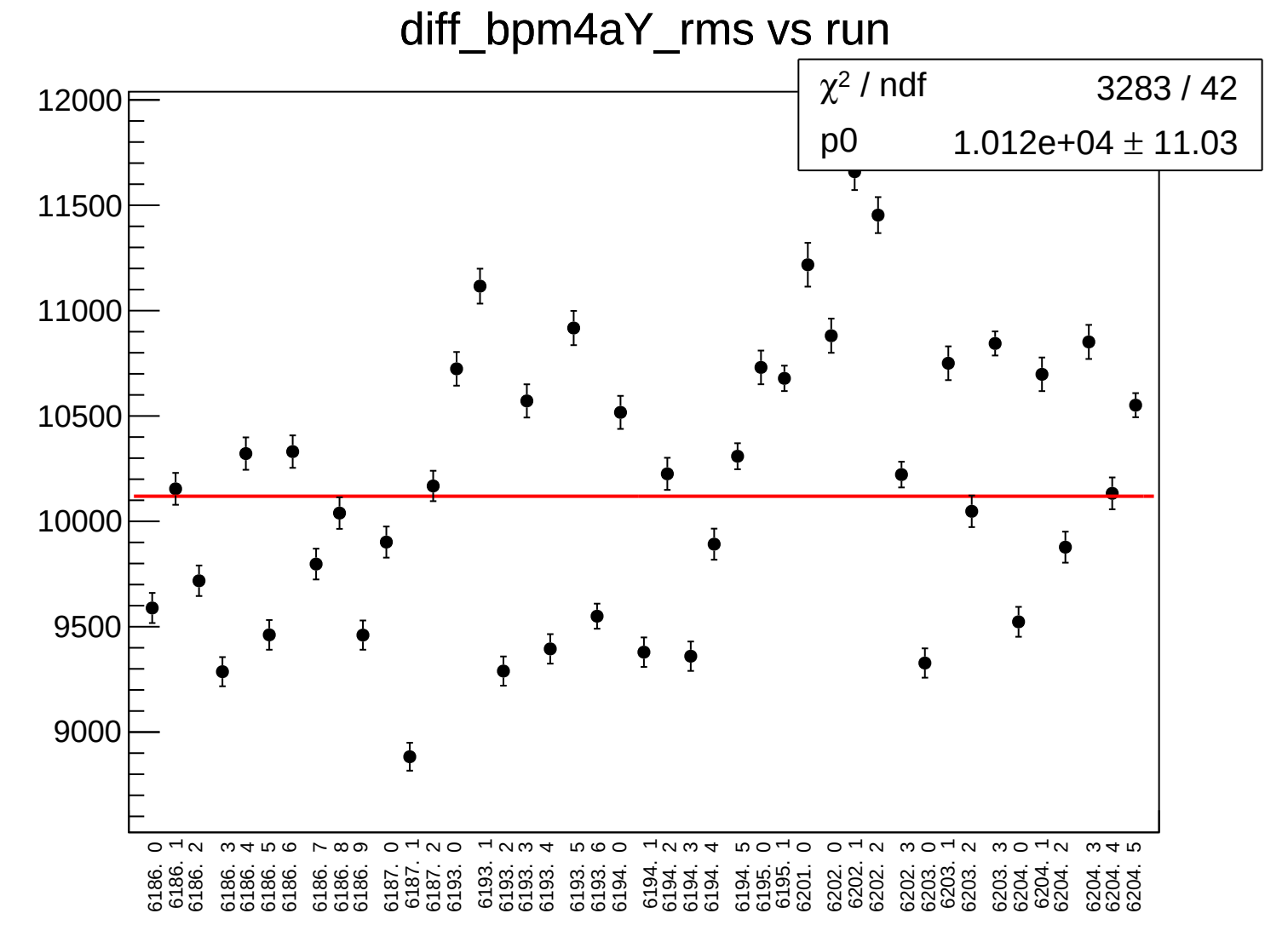

diff_bpm4aX_mean vs run
χ² / ndf 47.35 / 42
p0 −9.752 ± 30.48
1000
500
0
−500
−1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −622
Std Dev 0
3
2
1
0
−1
−2

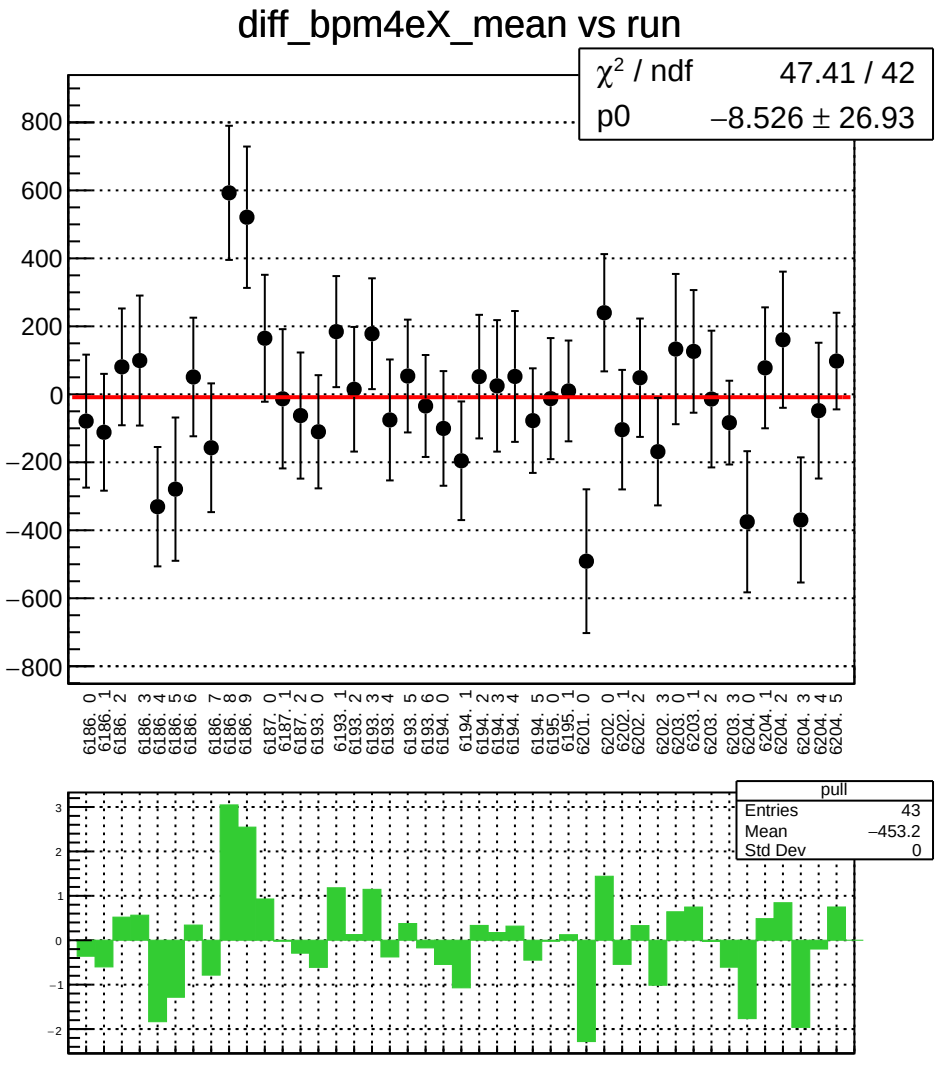

pull1D
Entries 43
Mean 0.002578
Std Dev 1.049
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

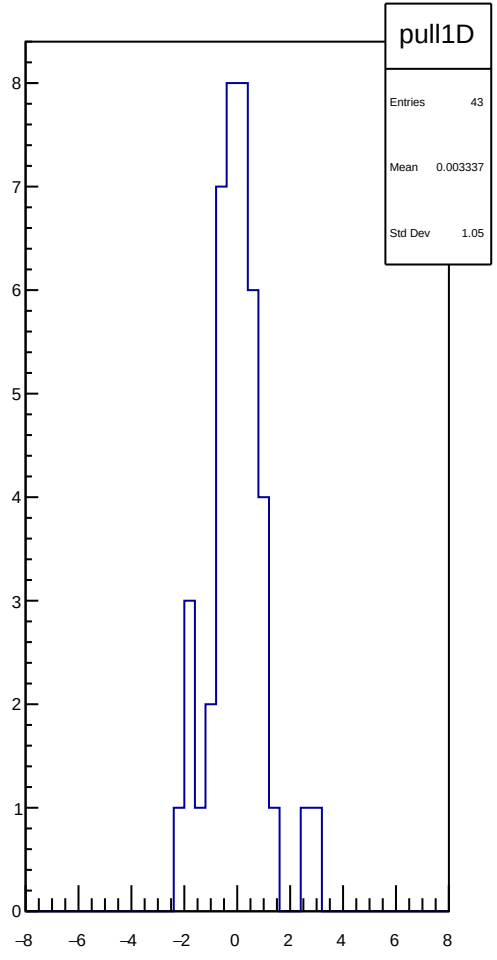

diff_bpm4aX_rms vs run
χ² / ndf 4567 / 42
p0 1.976e+04 ± 21.55
24000
23000
22000
21000
20000
19000
18000
17000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

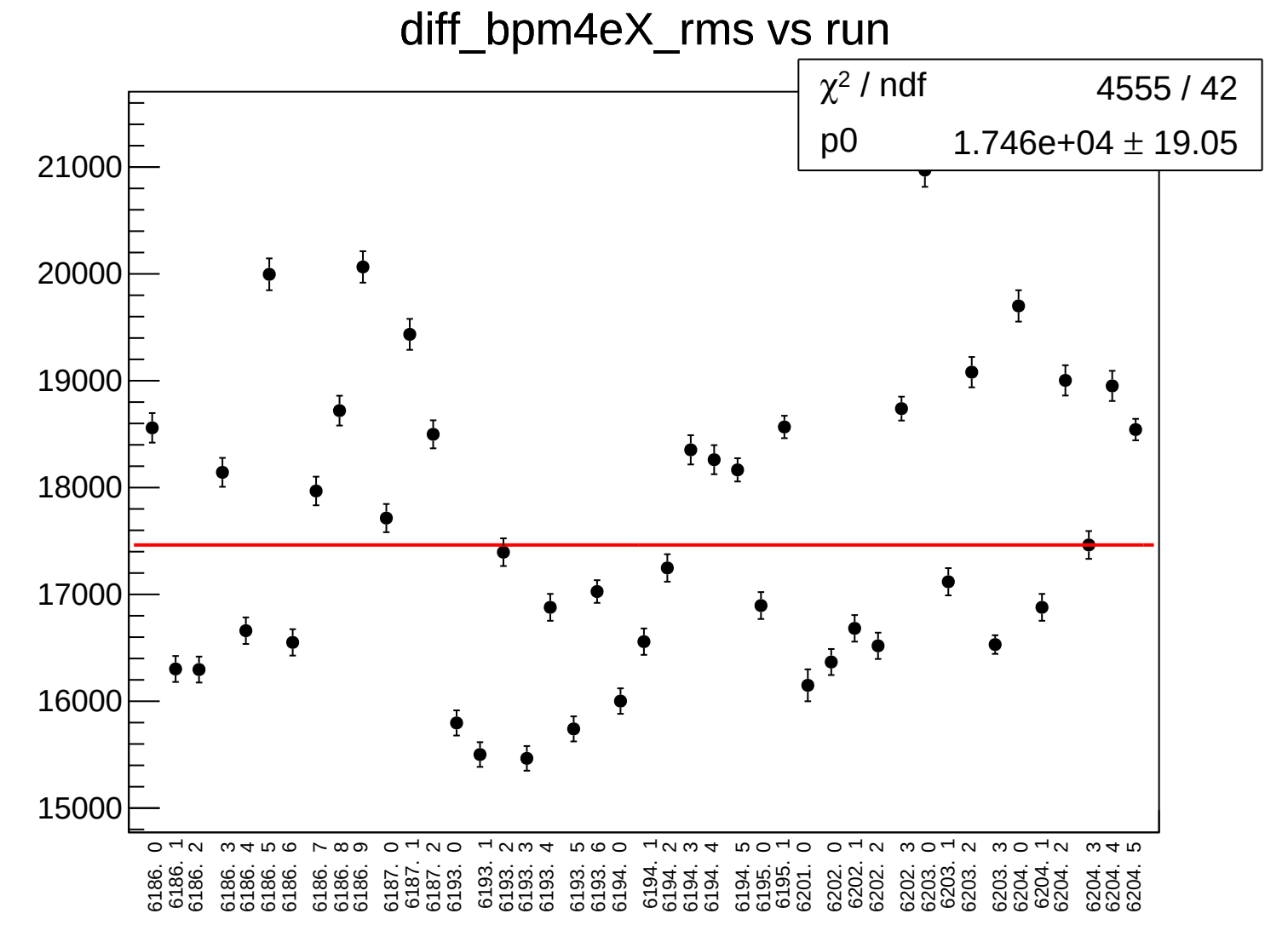

diff_bpm4aY_mean vs run
χ² / ndf 56.64 / 42
p0 −19.84 ± 15.6
300
200
100
0
−100
−200
−300
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −38.97
Std Dev 0
3
2
1
0
−1
−2

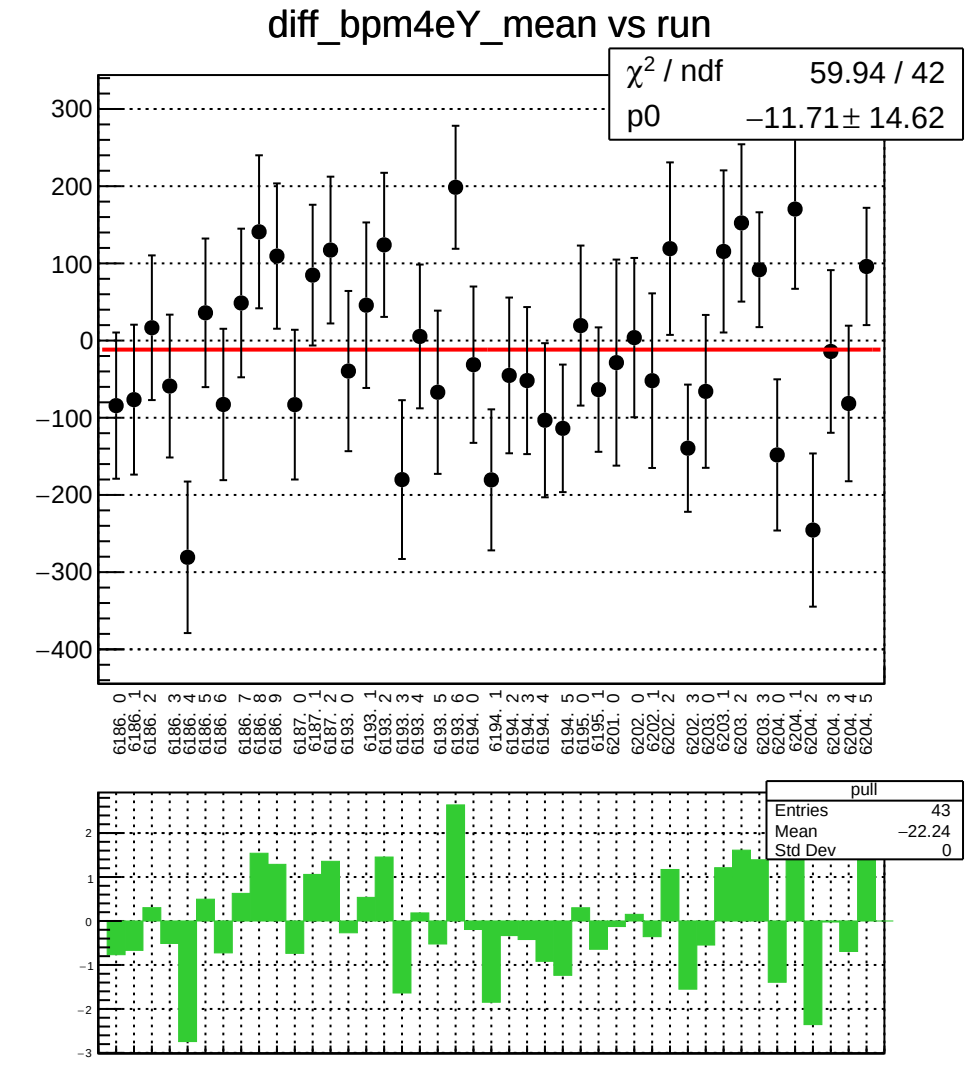

pull1D
Entries 43
Mean −0.01571
Std Dev 1.148
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

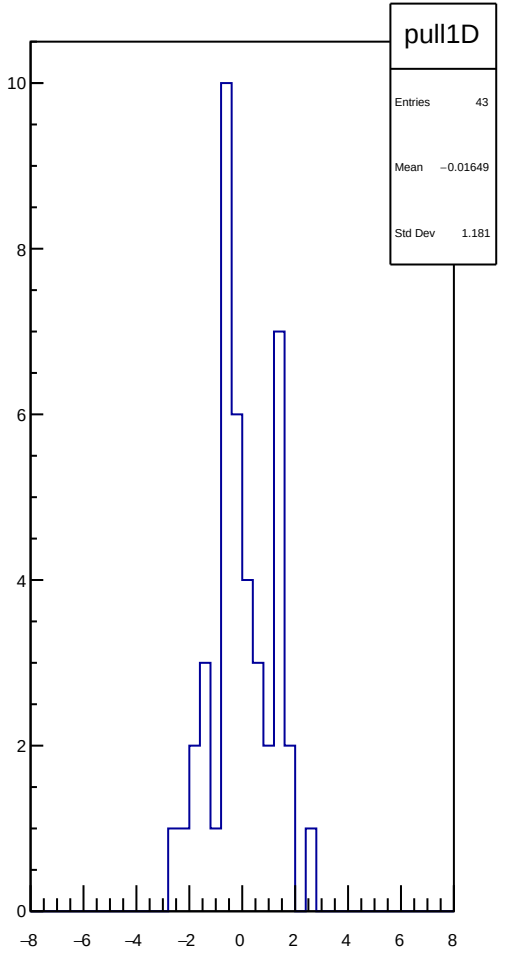

diff_bpm4aY_rms vs run
χ² / ndf 3283 / 42
p0 1.012e+04 ± 11.03
12000
11500
11000
10500
10000
9500
9000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

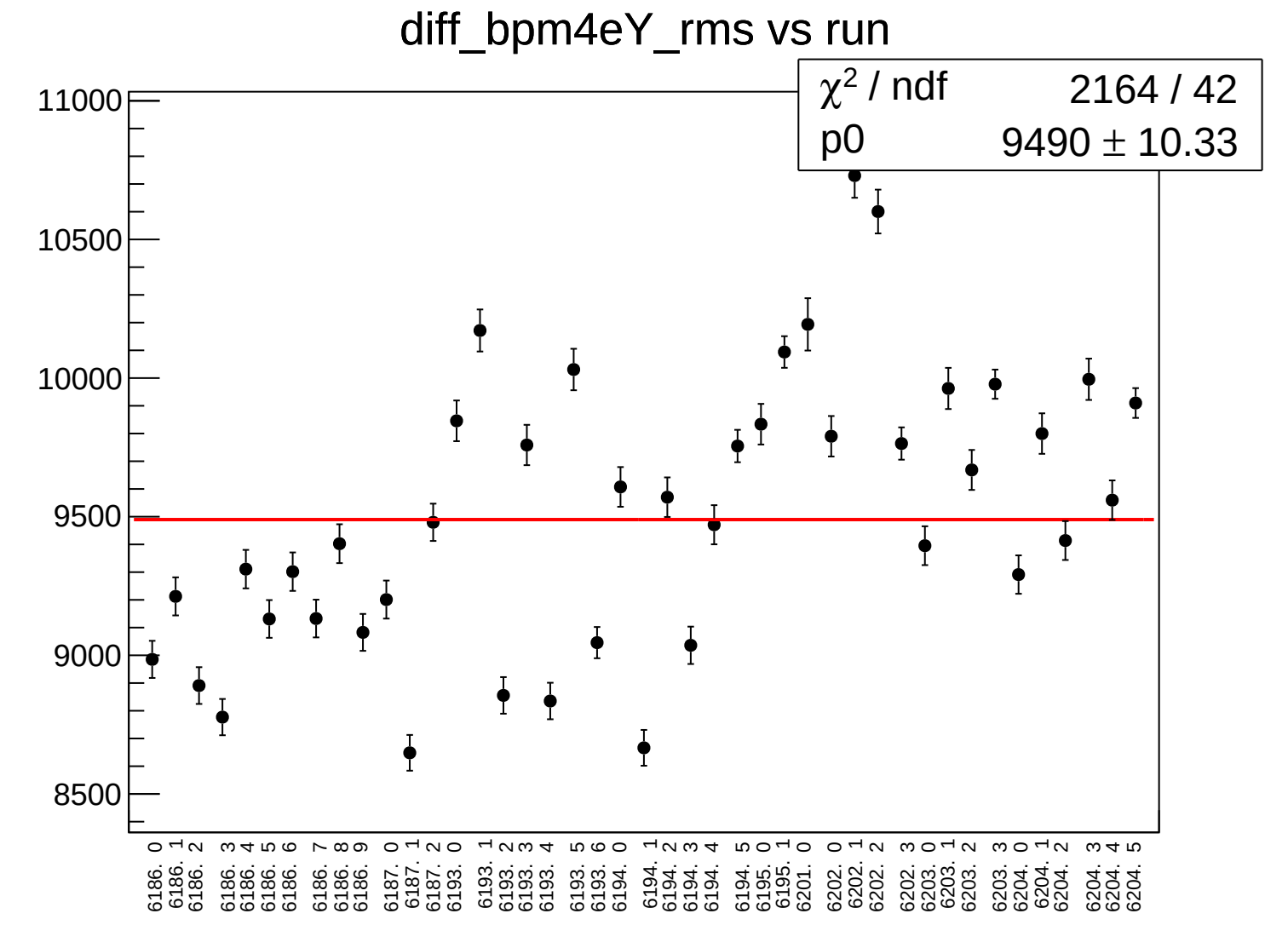

diff_bpm4eX_mean vs run
χ² / ndf 47.41 / 42
p0 −8.526 ± 26.93
800
600
400
200
0
−200
−400
−600
−800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −453.2
Std Dev 0
3
2
1
0
−1
−2

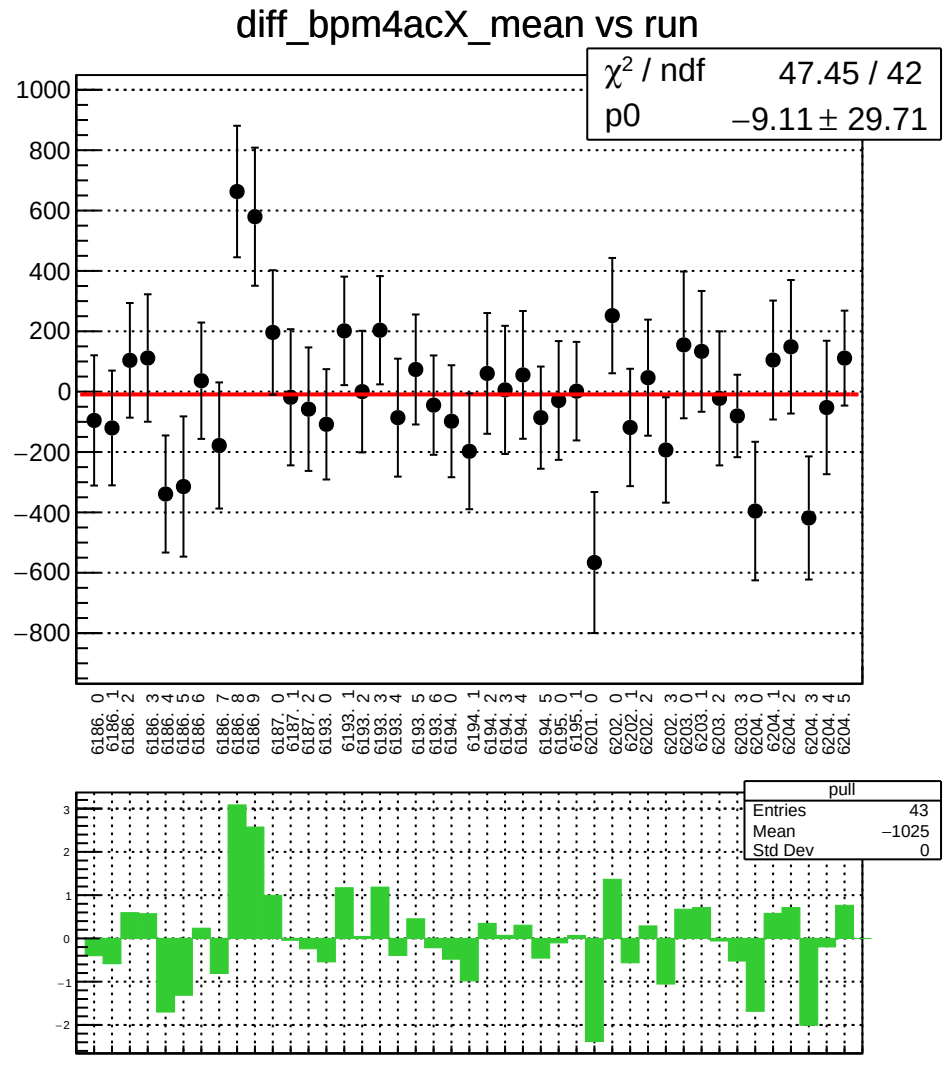

pull1D
Entries 43
Mean 0.003337
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

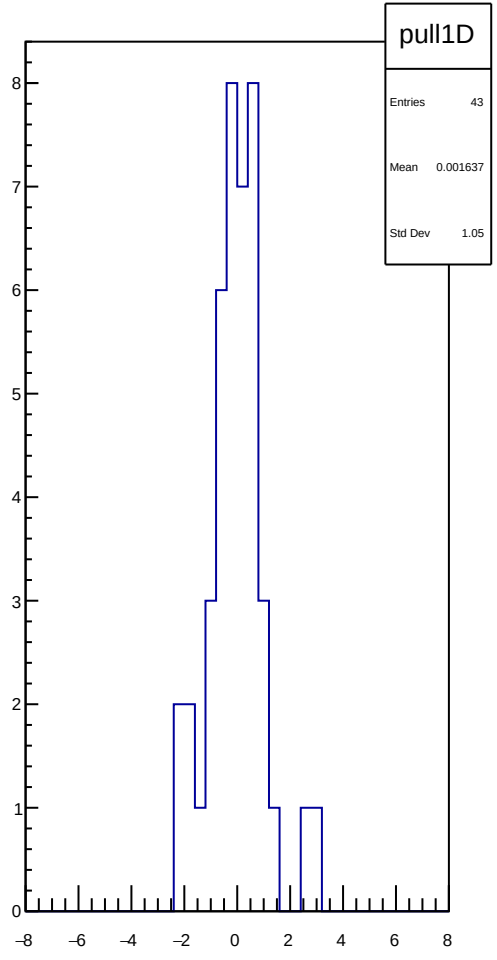

diff_bpm4eX_rms vs run
χ² / ndf 4555 / 42
p0 1.746e+04 ± 19.05
21000
20000
19000
18000
17000
16000
15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

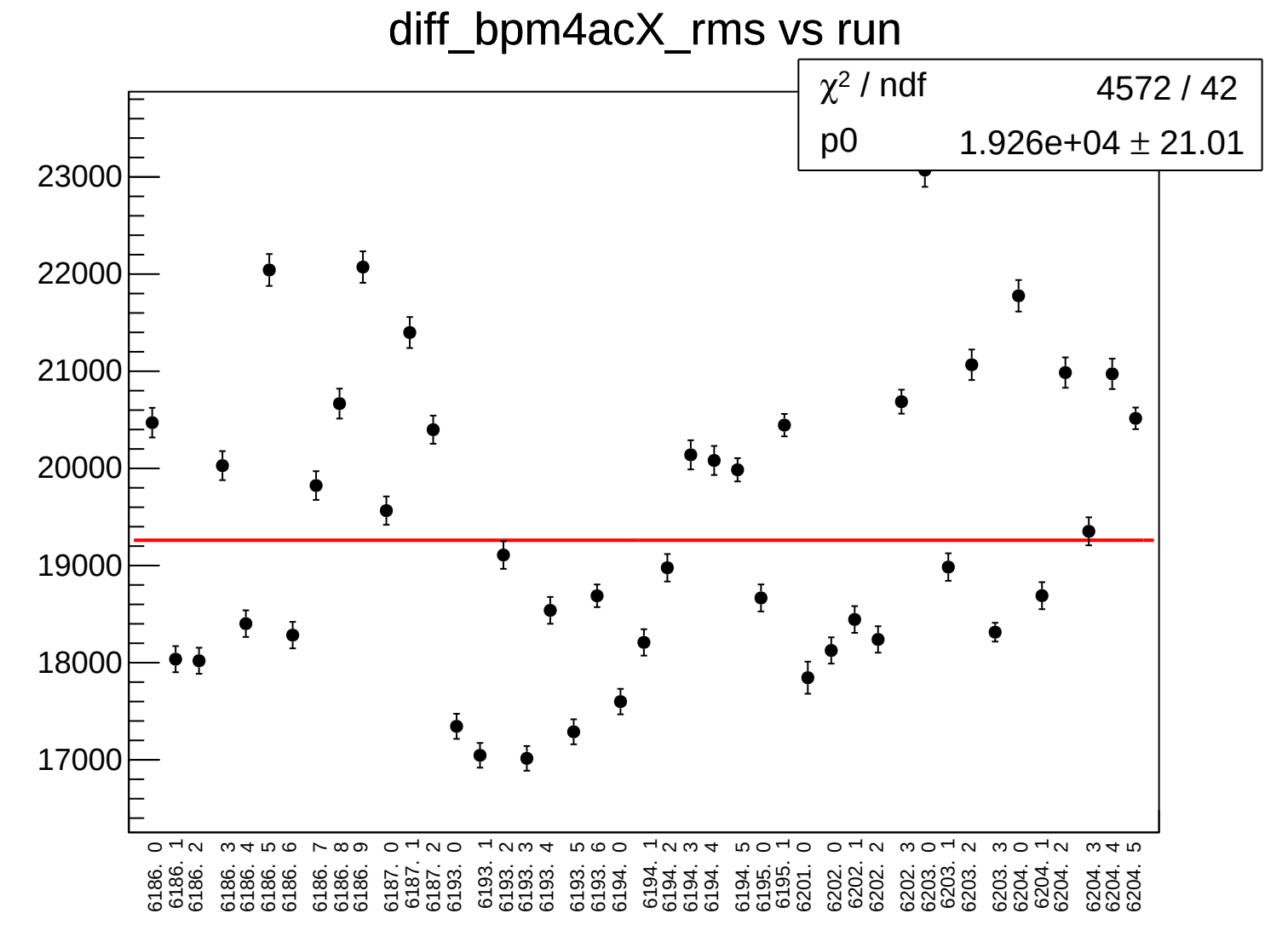

diff_bpm4eY_mean vs run
χ² / ndf 59.94 / 42
p0 −11.71± 14.62
300
200
100
0
−100
−200
−300
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −22.24
Std Dev 0
2
1
0
−1
−2
−3

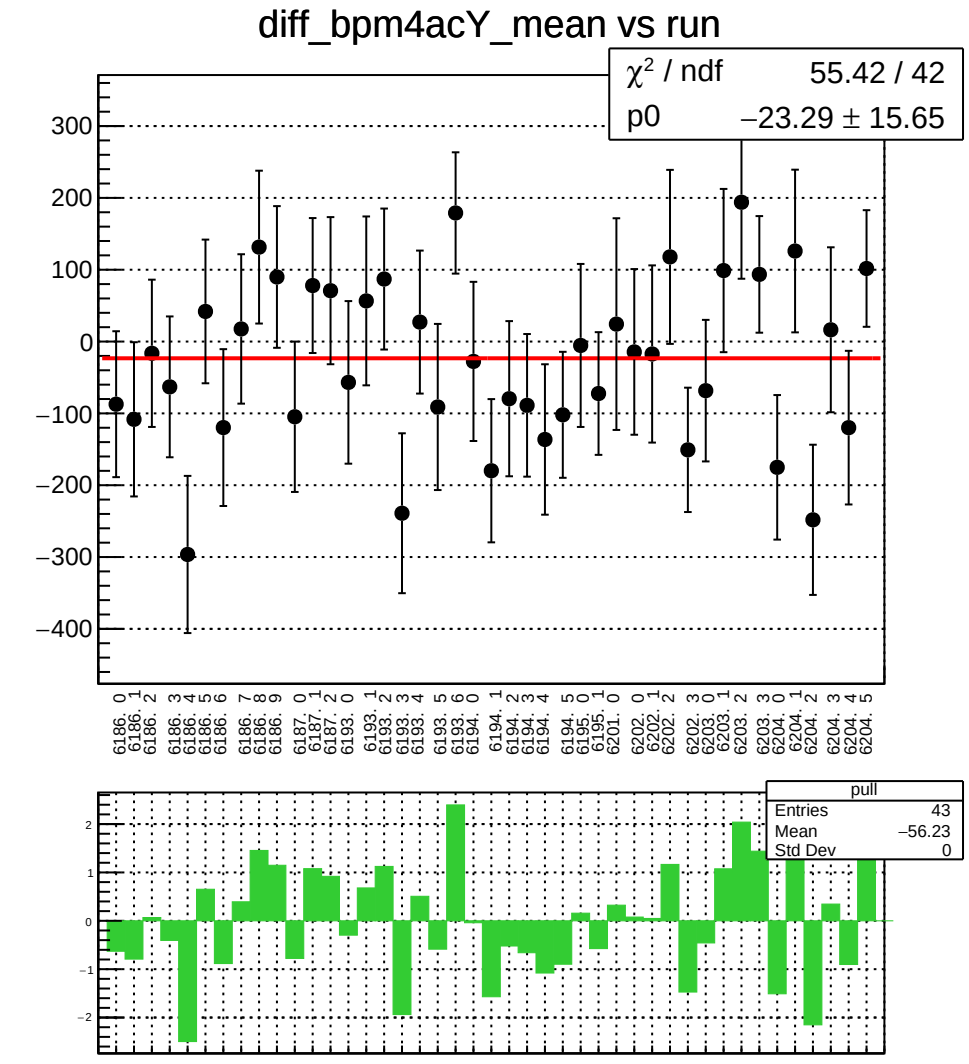

pull1D
Entries 43
Mean −0.01649
Std Dev 1.181
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

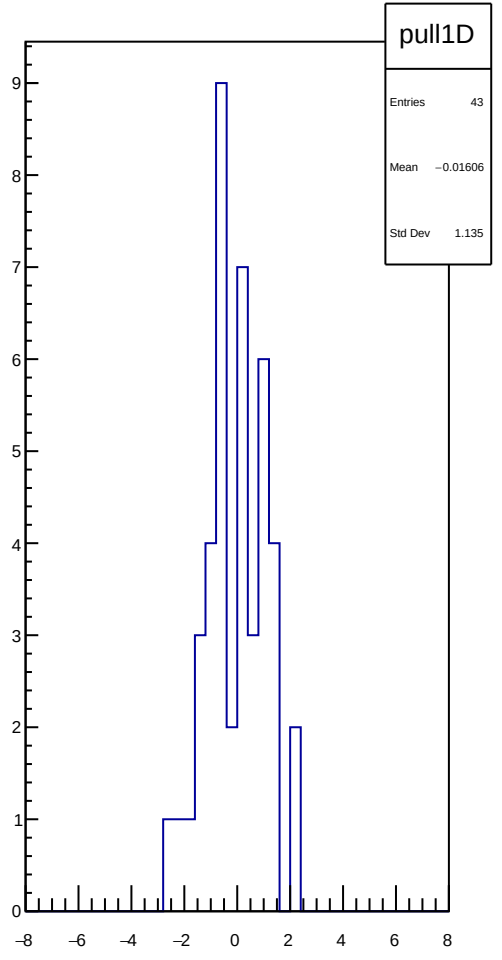

diff_bpm4eY_rms vs run
χ² / ndf 2164 / 42
p0 9490 ± 10.33
11000
10500
10000
9500
9000
8500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

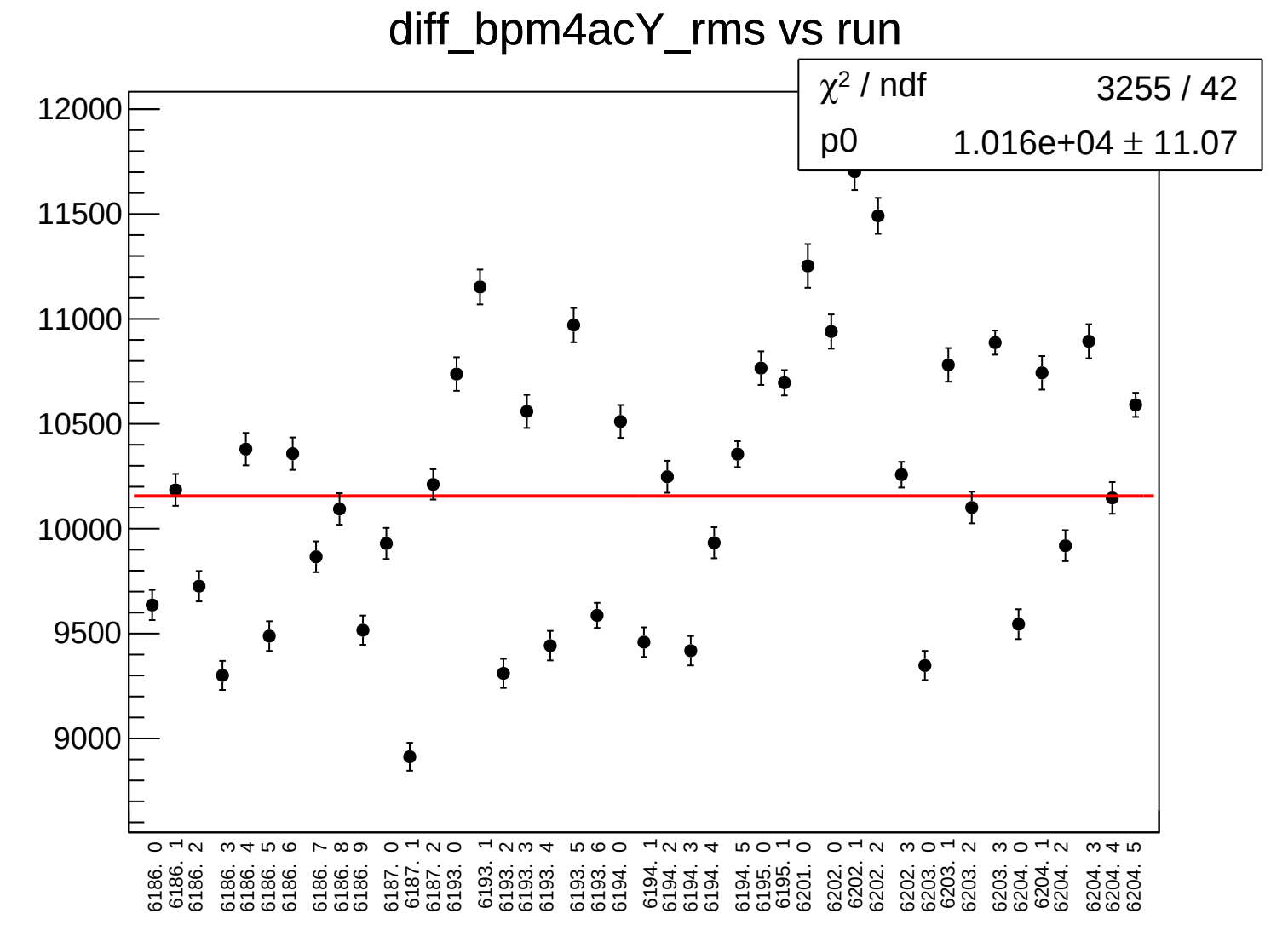

diff_bpm4acX_mean vs run
χ² / ndf 47.45 / 42
p0 −9.11 ± 29.71
1000
800
600
400
200
0
−200
−400
−600
−800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1025
Std Dev 0
3
2
1
0
−1
−2

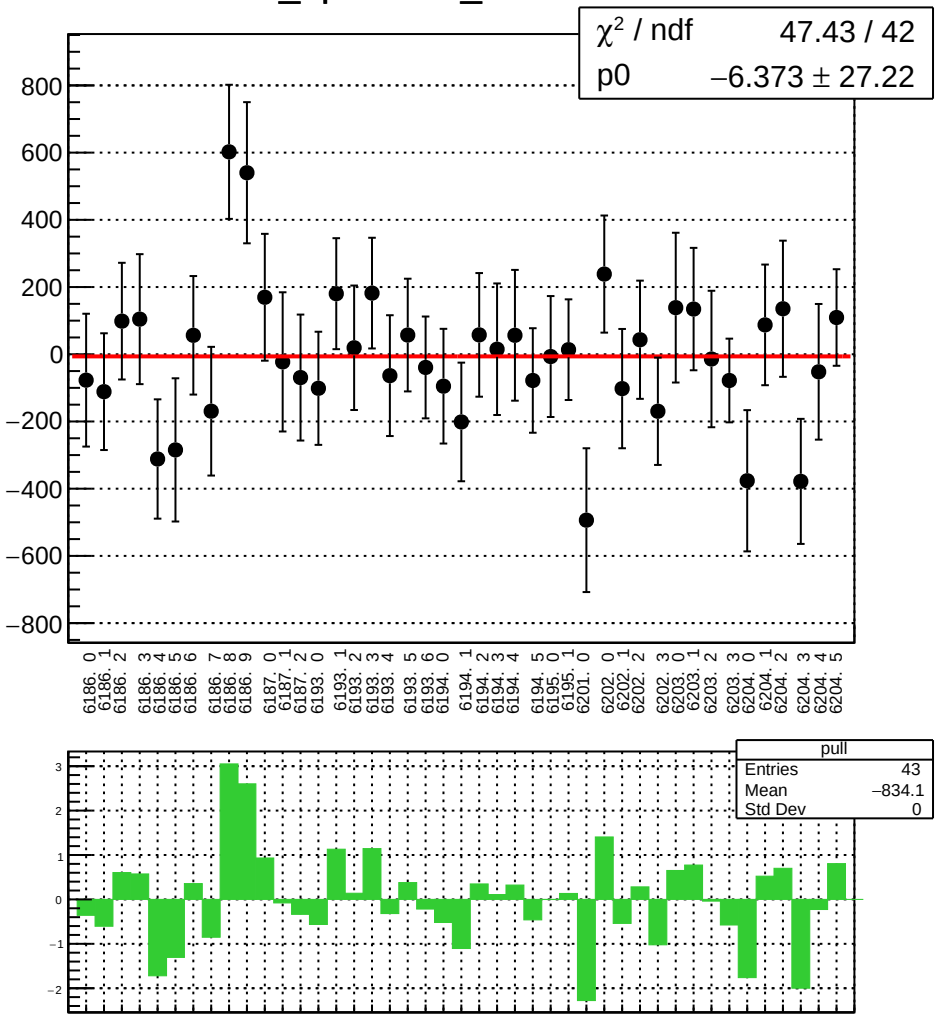

pull1D
Entries 43
Mean 0.001637
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

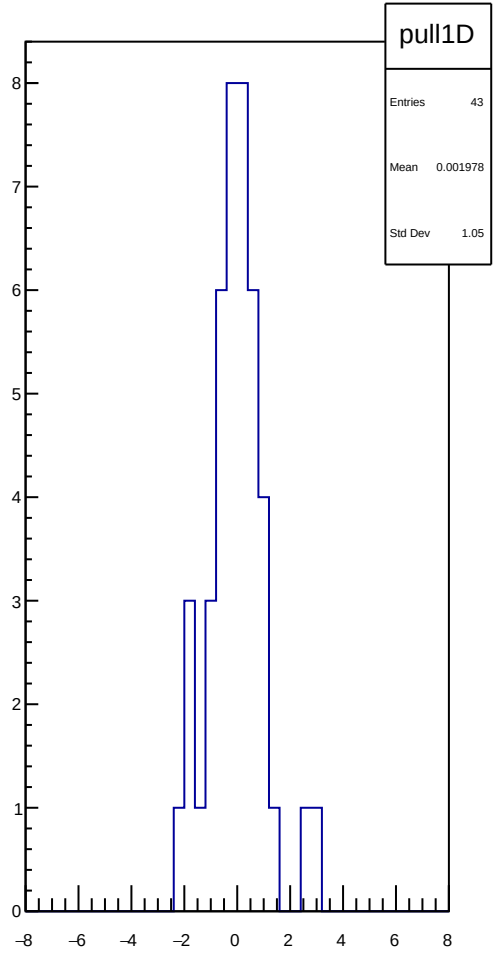

diff_bpm4acX_rms vs run
χ² / ndf 4572 / 42
p0 1.926e+04 ± 21.01
23000
22000
21000
20000
19000
18000
17000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

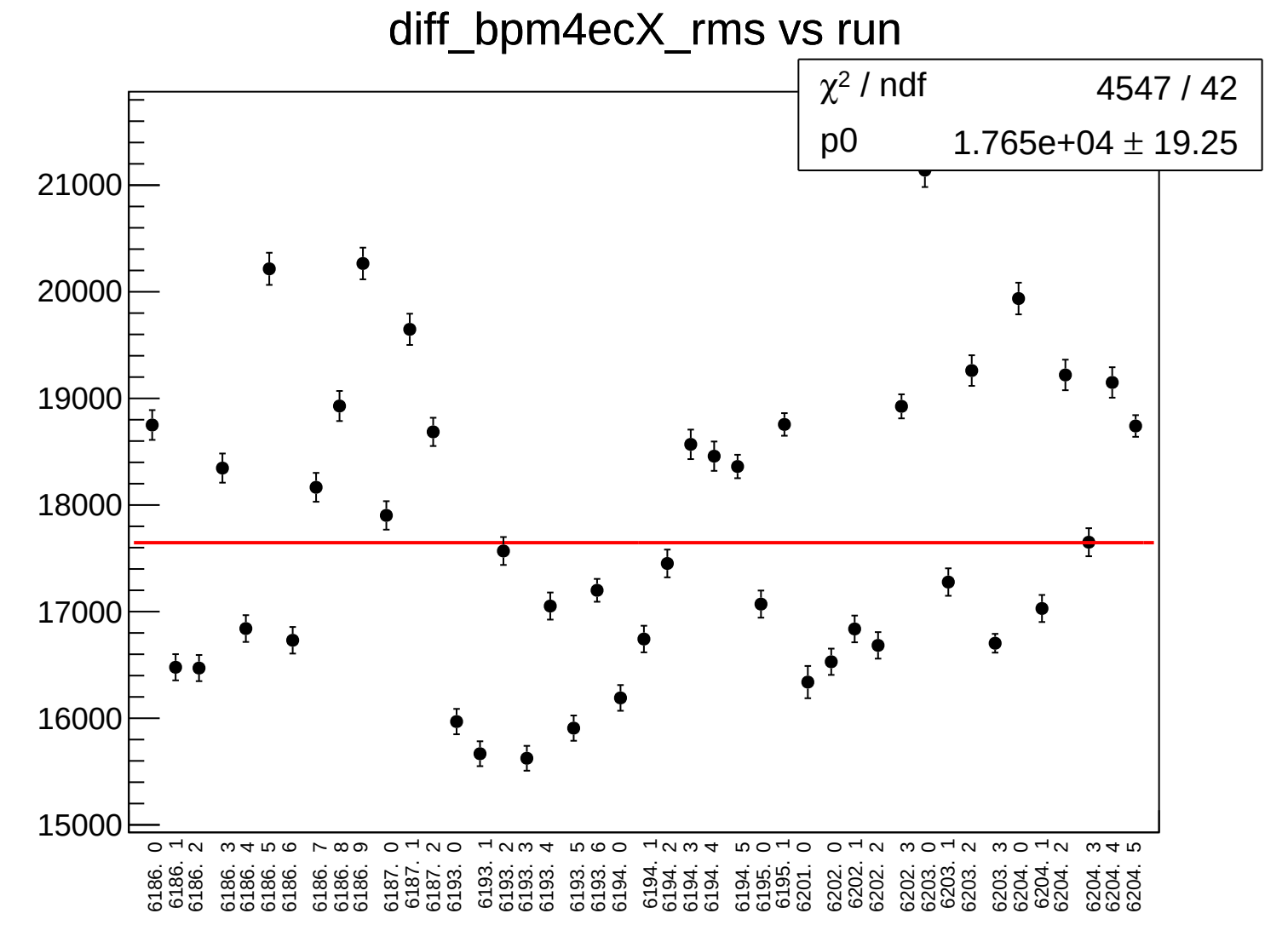

diff_bpm4acY_mean vs run
χ² / ndf 55.42 / 42
p0 −23.29 ± 15.65
300
200
100
0
−100
−200
−300
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −56.23
Std Dev 0
2
1
0
−1
−2

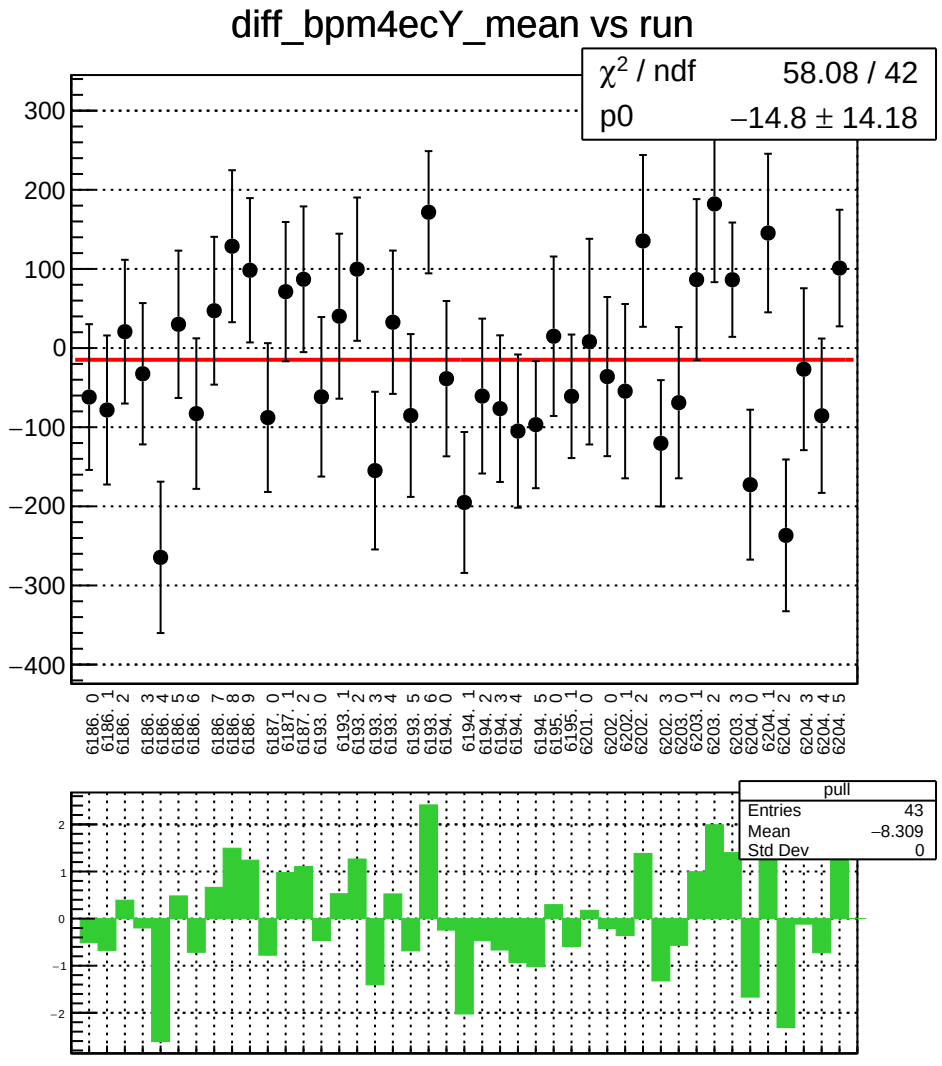

pull1D
Entries 43
Mean −0.01606
Std Dev 1.135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

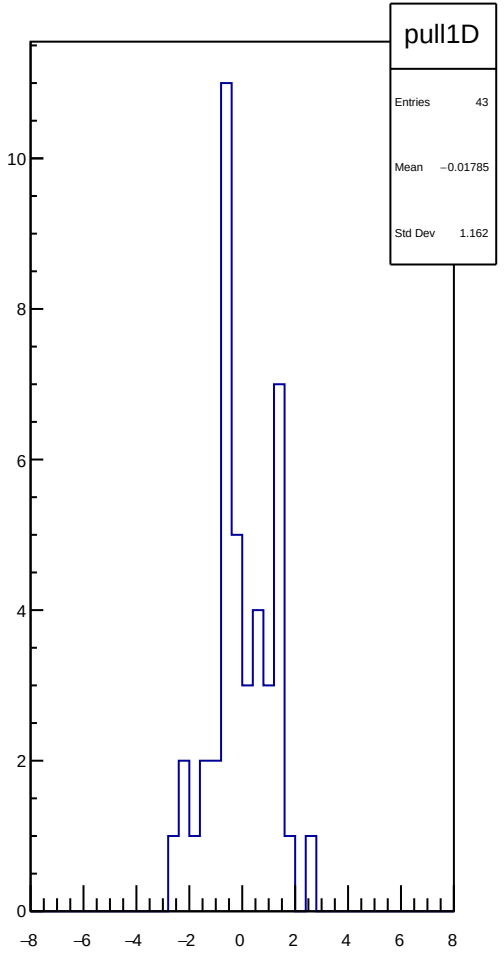

diff_bpm4acY_rms vs run
χ² / ndf 3255 / 42
p0 1.016e+04 ± 11.07
12000
11500
11000
10500
10000
9500
9000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

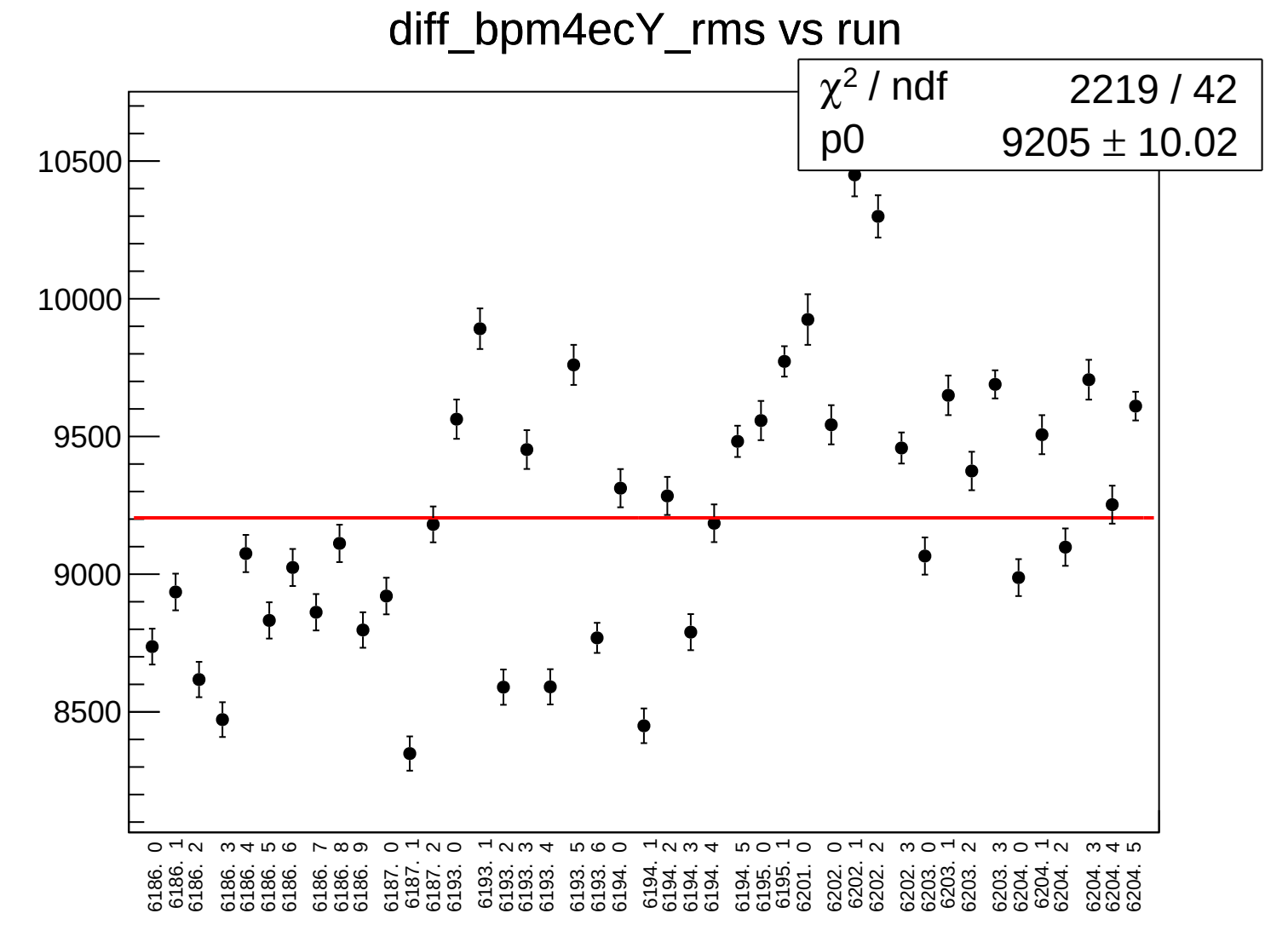

diff_bpm4ecX_mean vs run
χ² / ndf 47.43 / 42
p0 −6.373 ± 27.22
800
600
400
200
0
−200
−400
−600
−800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −834.1
Std Dev 0
3
2
1
0
−1
−2

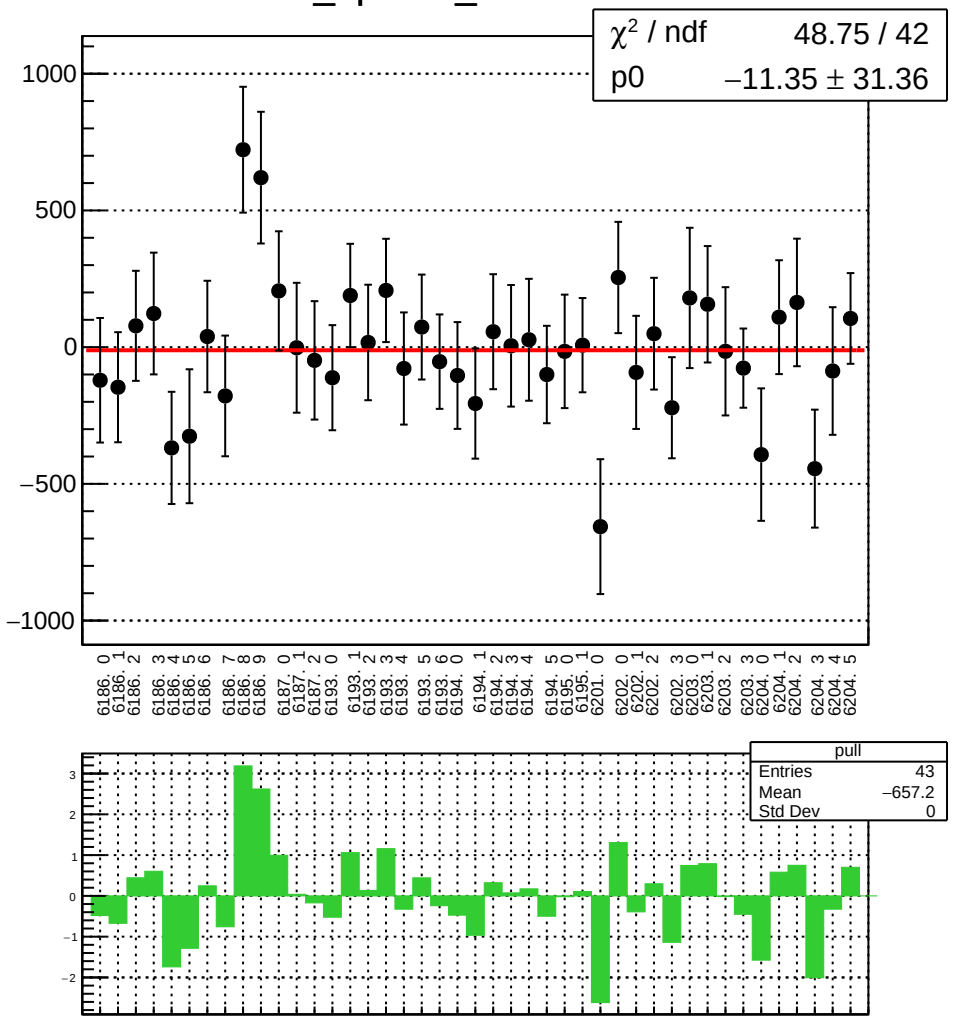

pull1D
Entries 43
Mean 0.001978
Std Dev 1.05
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

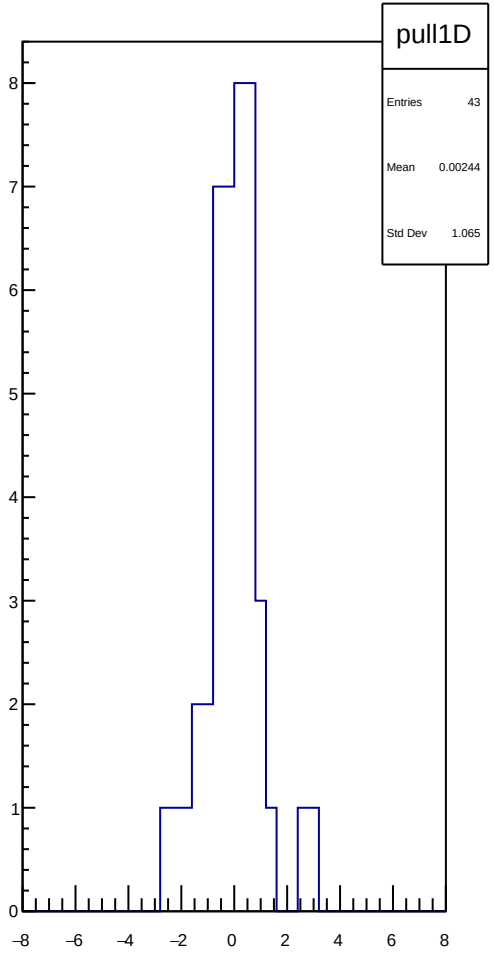

diff_bpm4ecX_rms vs run
χ² / ndf 4547 / 42
p0 1.765e+04 ± 19.25
21000
20000
19000
18000
17000
16000
15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

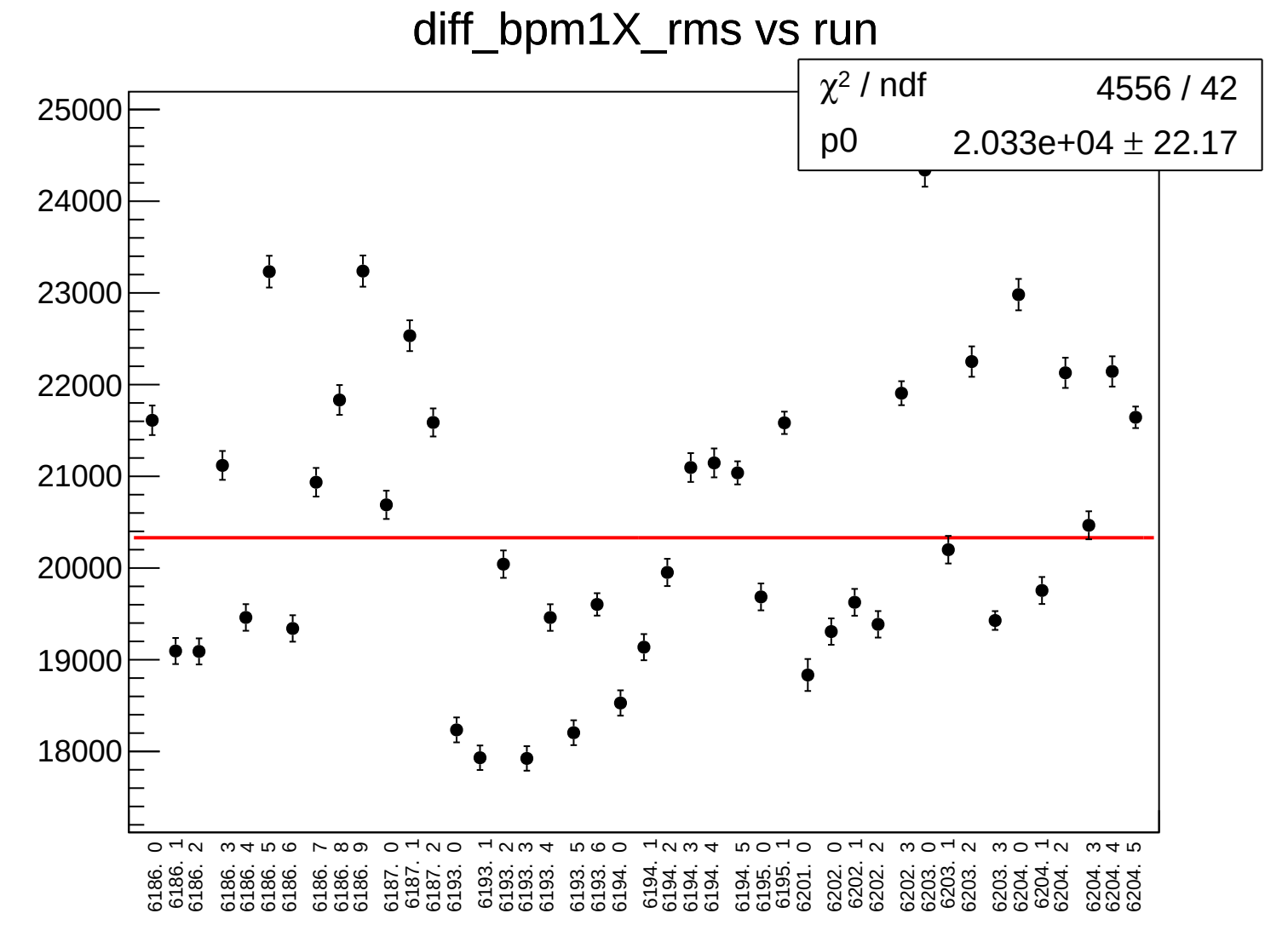

diff_bpm4ecY_mean vs run
χ² / ndf 58.08 / 42
p0 −14.8 ± 14.18
300
200
100
0
−100
−200
−300
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −8.309
Std Dev 0
2
1
0
−1
−2

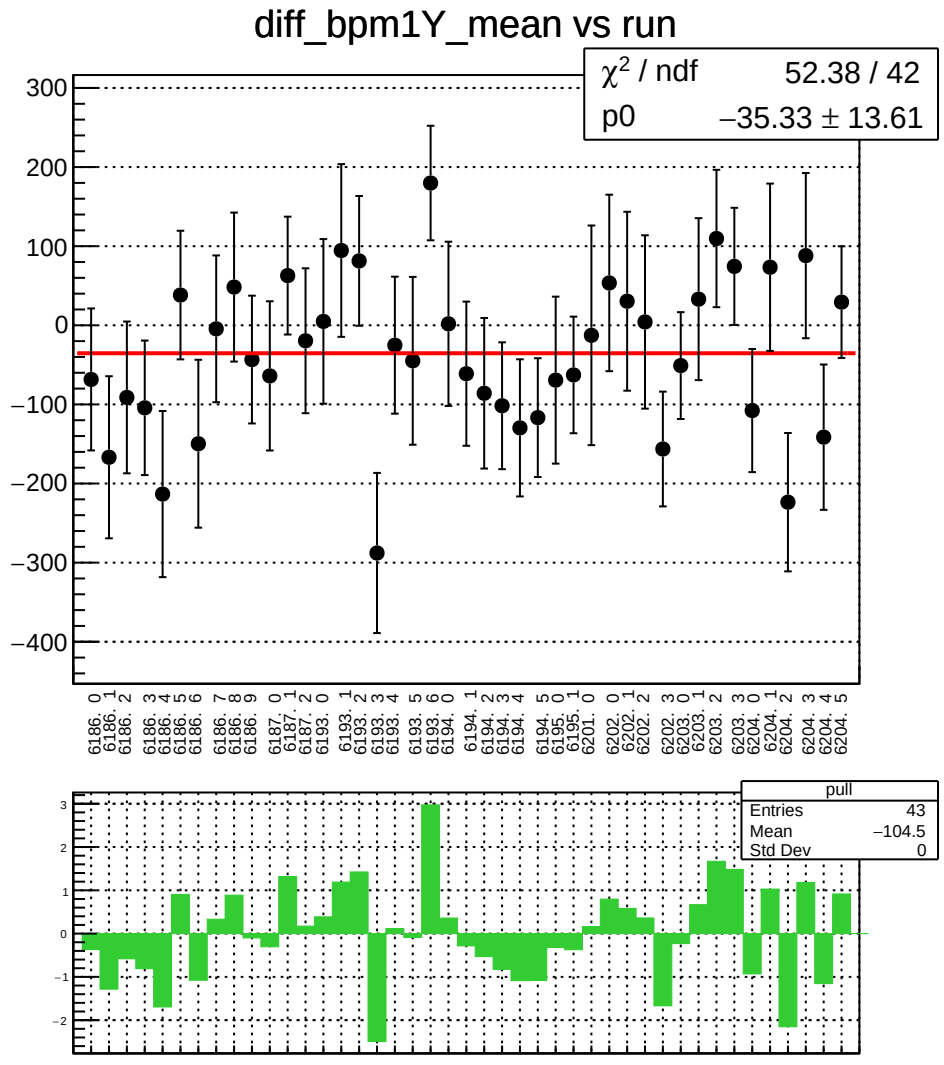

pull1D
Entries 43
Mean −0.01785
Std Dev 1.162
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

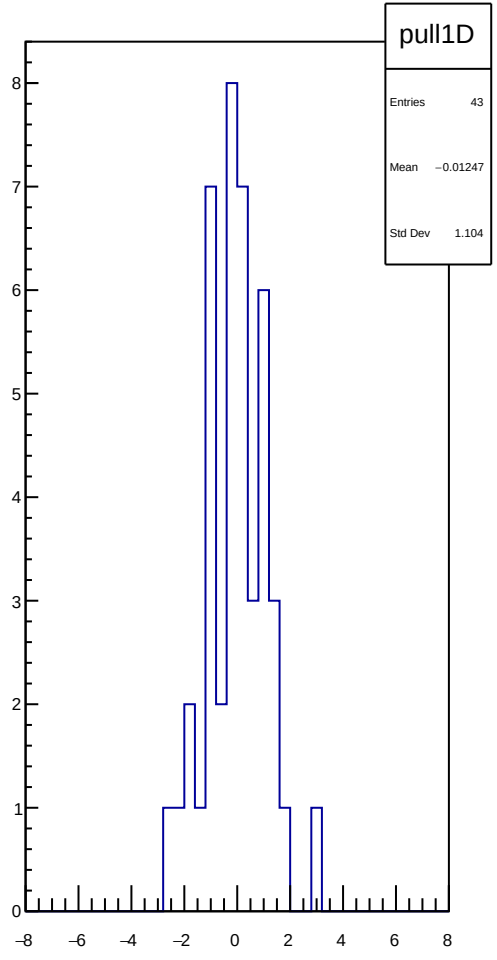

diff_bpm4ecY_rms vs run
χ² / ndf 2219 / 42
p0 9205 ± 10.02
10500
10000
9500
9000
8500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

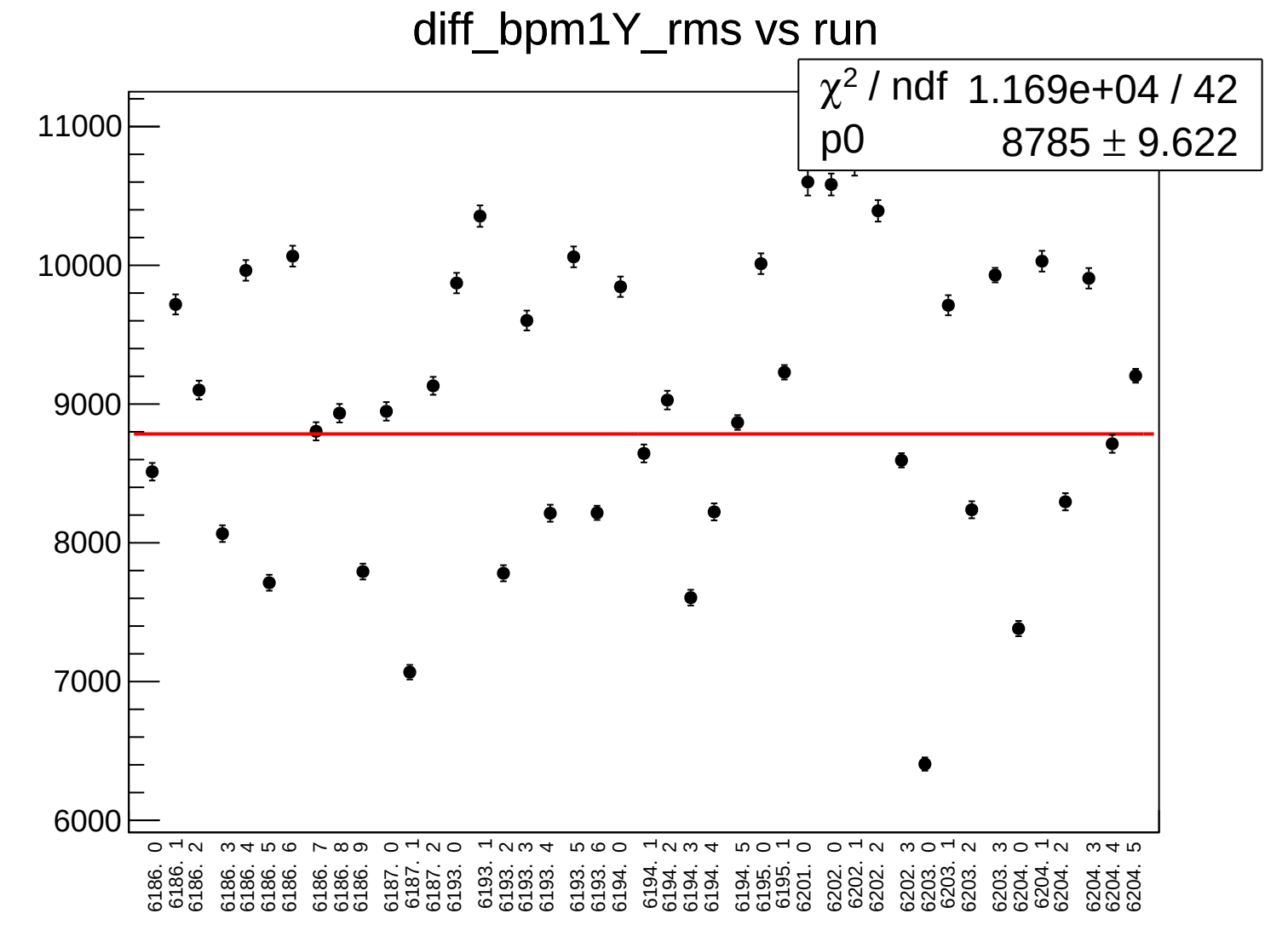

diff_bpm1X_mean vs run
χ² / ndf 48.75 / 42
p0 −11.35 ± 31.36
1000
500
0
−500
−1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −657.2
Std Dev 0
3
2
1
0
−1
−2

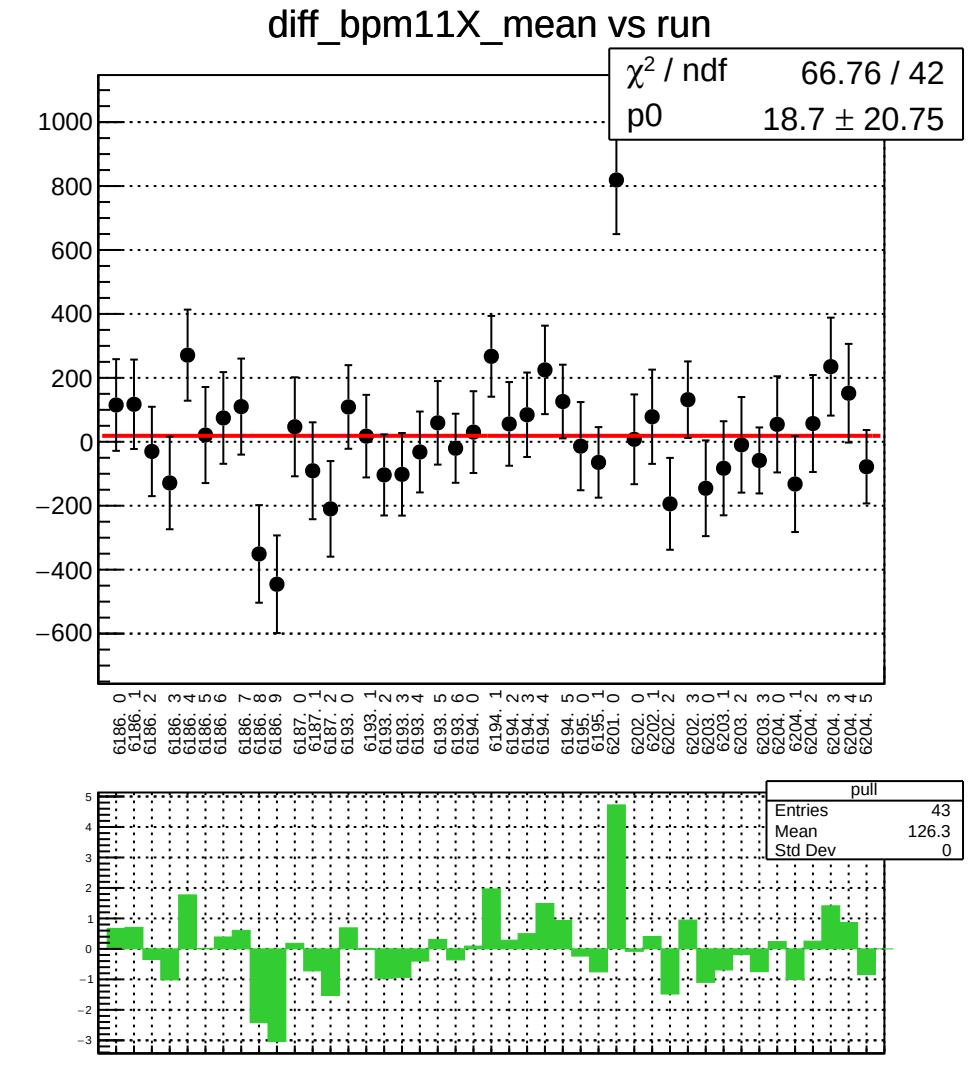

pull1D
Entries 43
Mean 0.00244
Std Dev 1.065
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

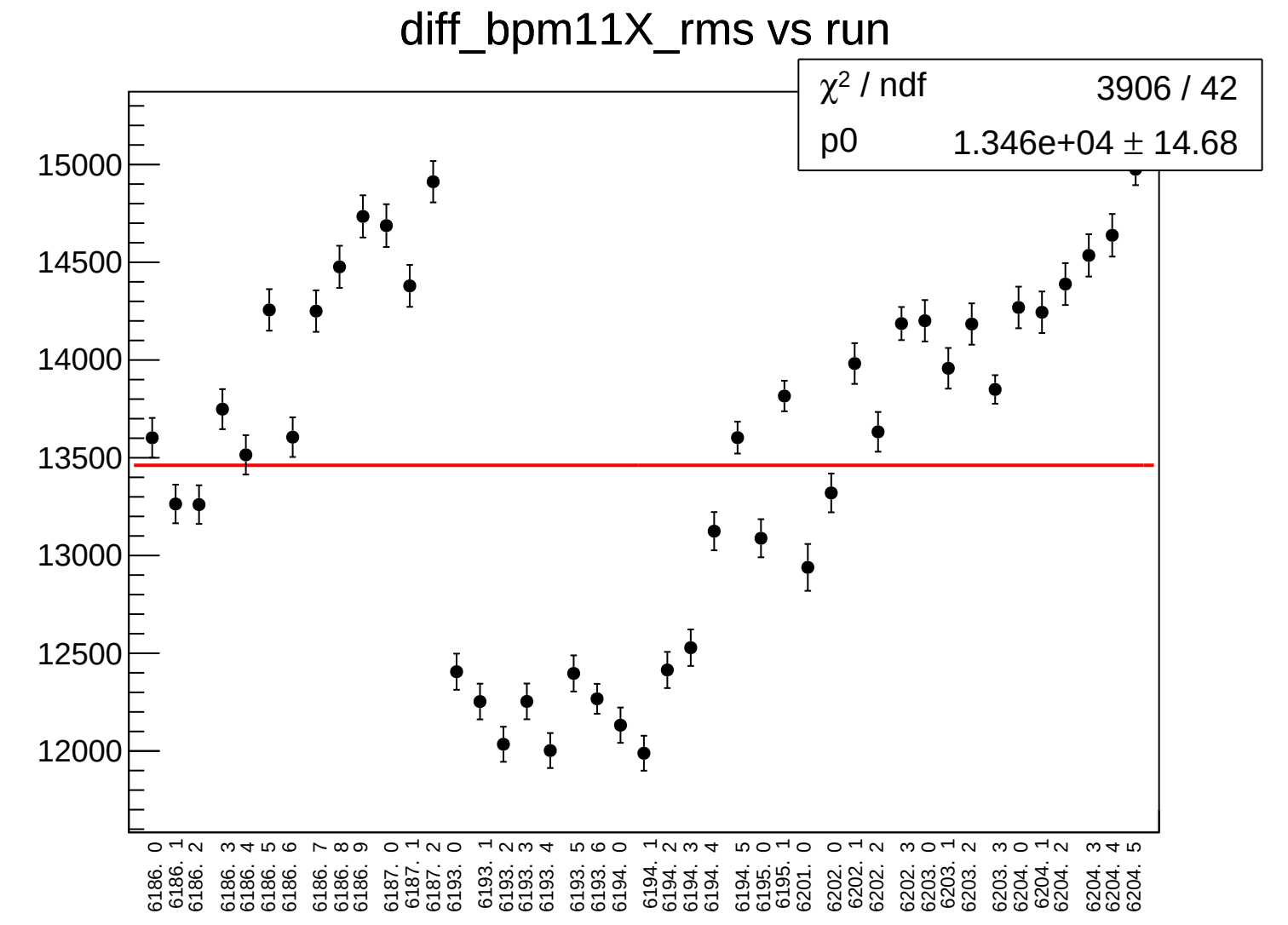

diff_bpm1X_rms vs run
χ² / ndf 4556 / 42
p0 2.033e+04 ± 22.17
25000
24000
23000
22000
21000
20000
19000
18000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

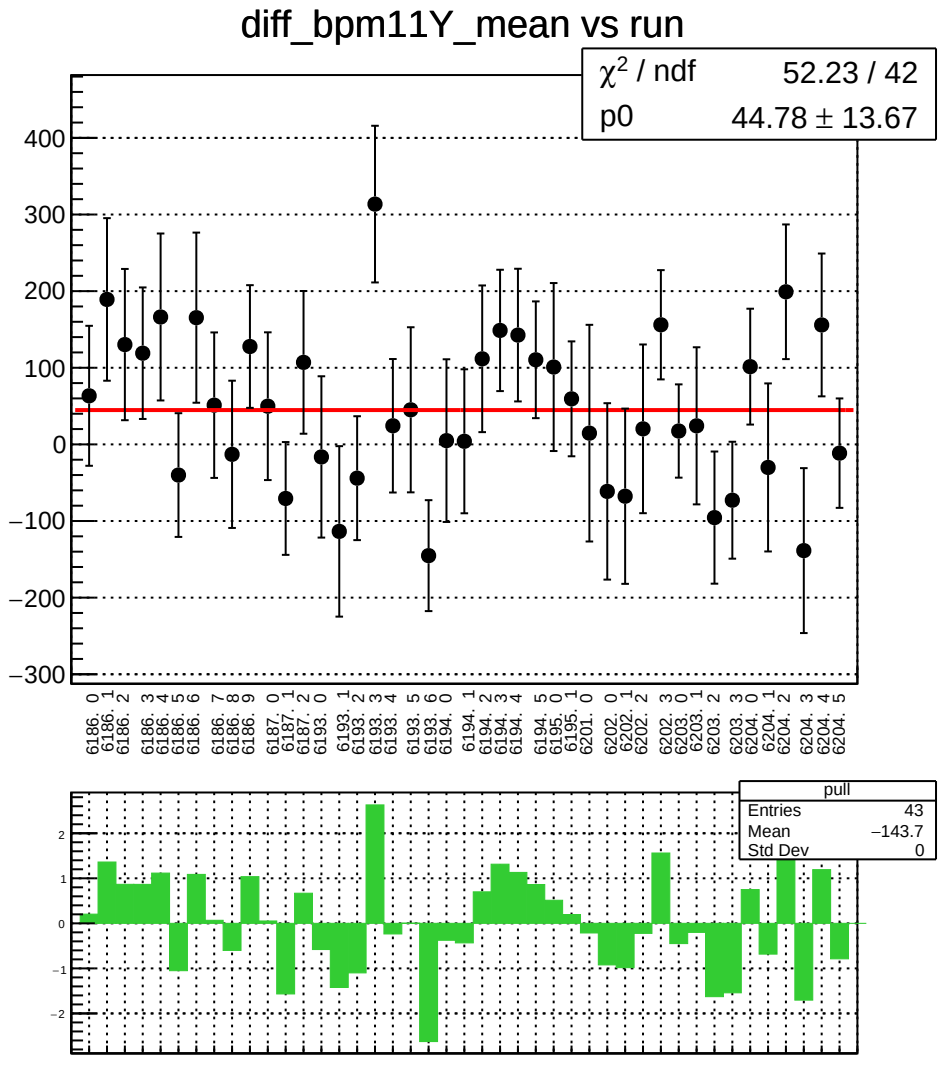

diff_bpm1Y_mean vs run
χ² / ndf 52.38 / 42
p0 −35.33 ± 13.61
300
200
100
0
−100
−200
−300
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −104.5
Std Dev 0
3
2
1
0
−1
−2

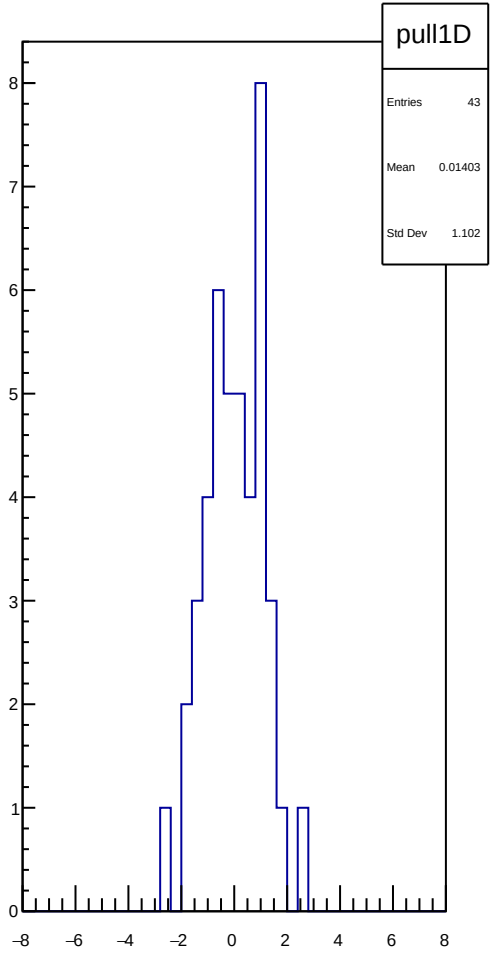

pull1D
Entries 43
Mean −0.01247
Std Dev 1.104
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

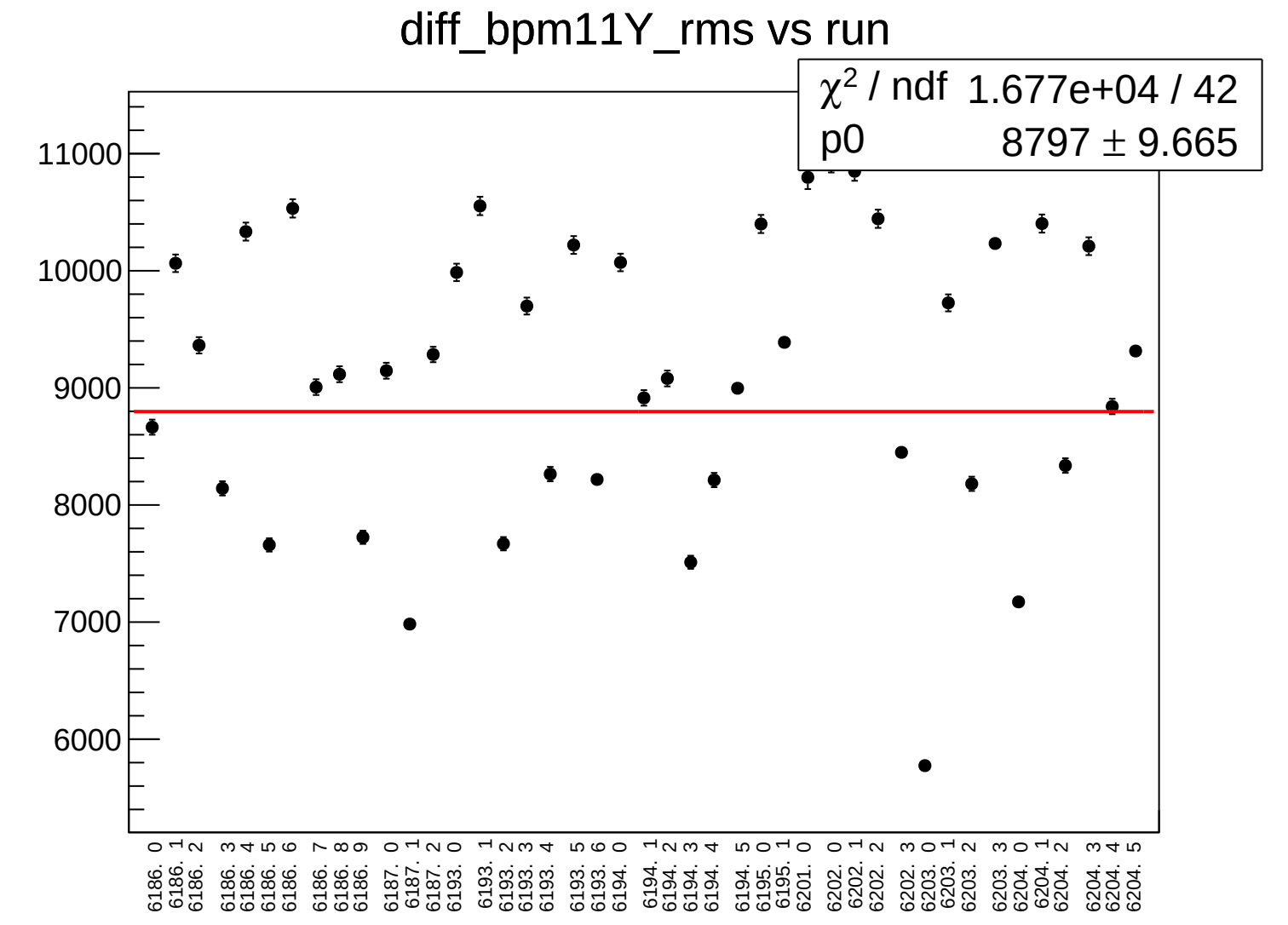

diff_bpm1Y_rms vs run
χ² / ndf 1.169e+04 / 42
p0 8785 ± 9.622
11000
10000
9000
8000
7000
6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

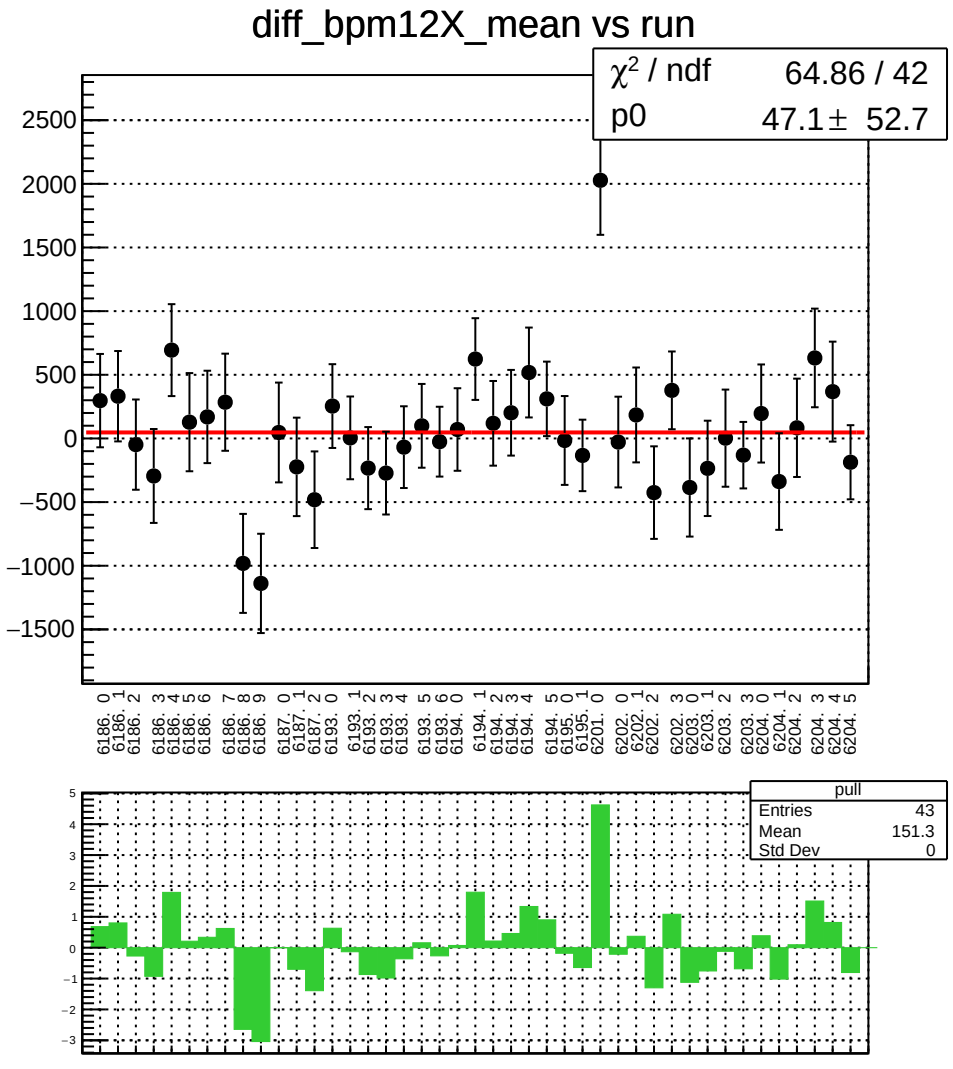

diff_bpm11X_mean vs run
χ² / ndf 66.76 / 42
p0 18.7 ± 20.75
1000
800
600
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 126.3
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01385
Std Dev 1.246
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

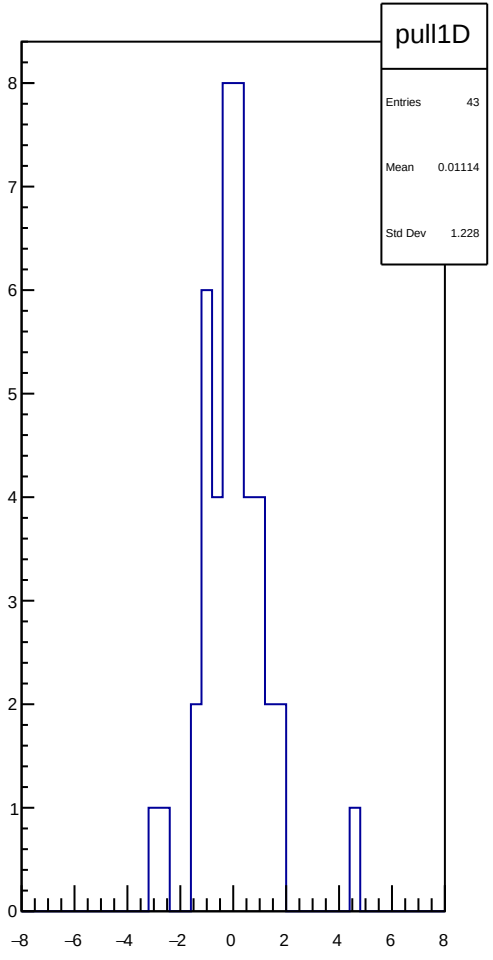

diff_bpm11X_rms vs run
χ² / ndf 3906 / 42
p0 1.346e+04 ± 14.68
15000
14500
14000
13500
13000
12500
12000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

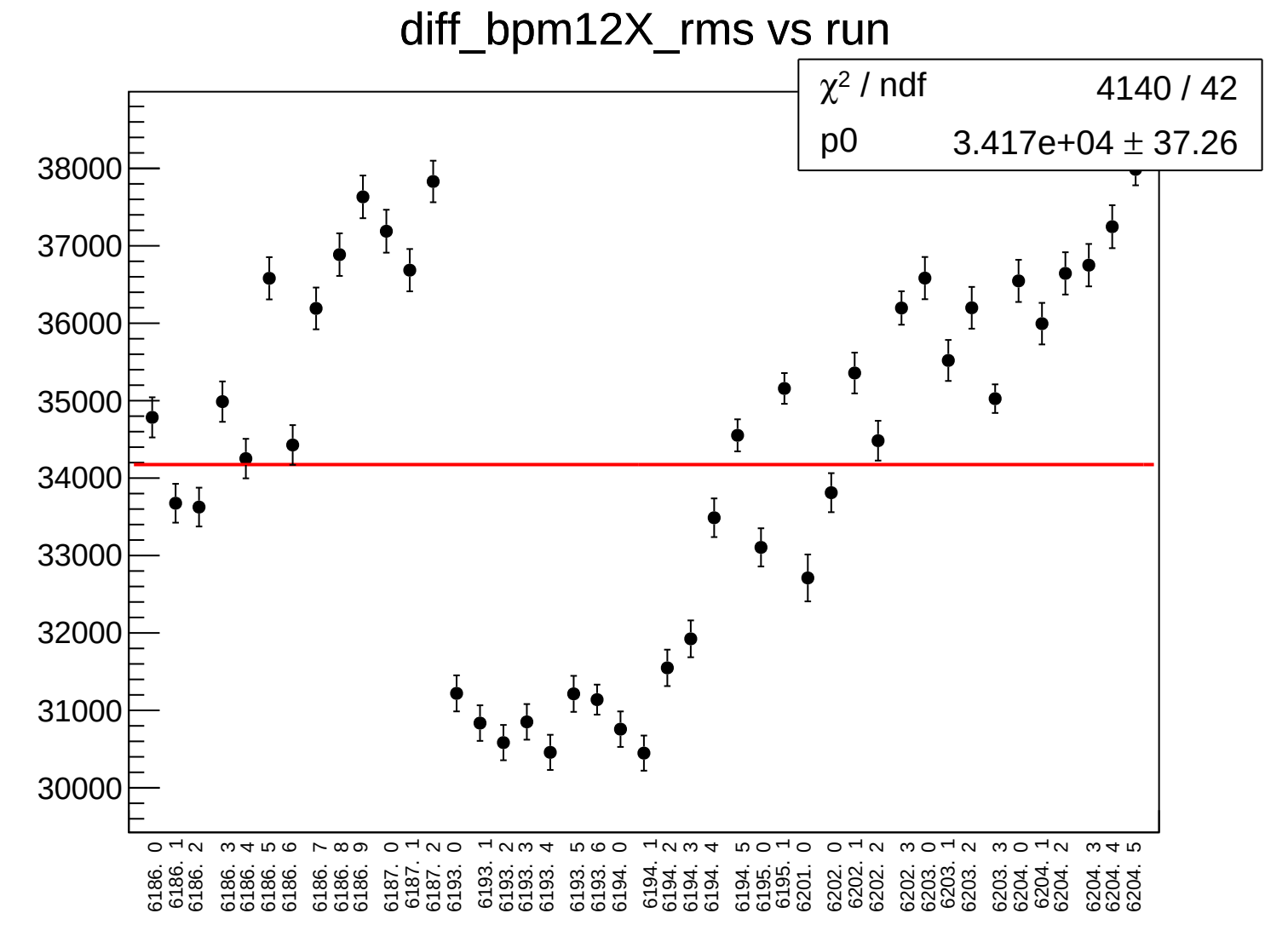

diff_bpm11Y_mean vs run
χ² / ndf 52.23 / 42
p0 44.78 ± 13.67
pull
Entries 43
Mean −143.7
Std Dev 0

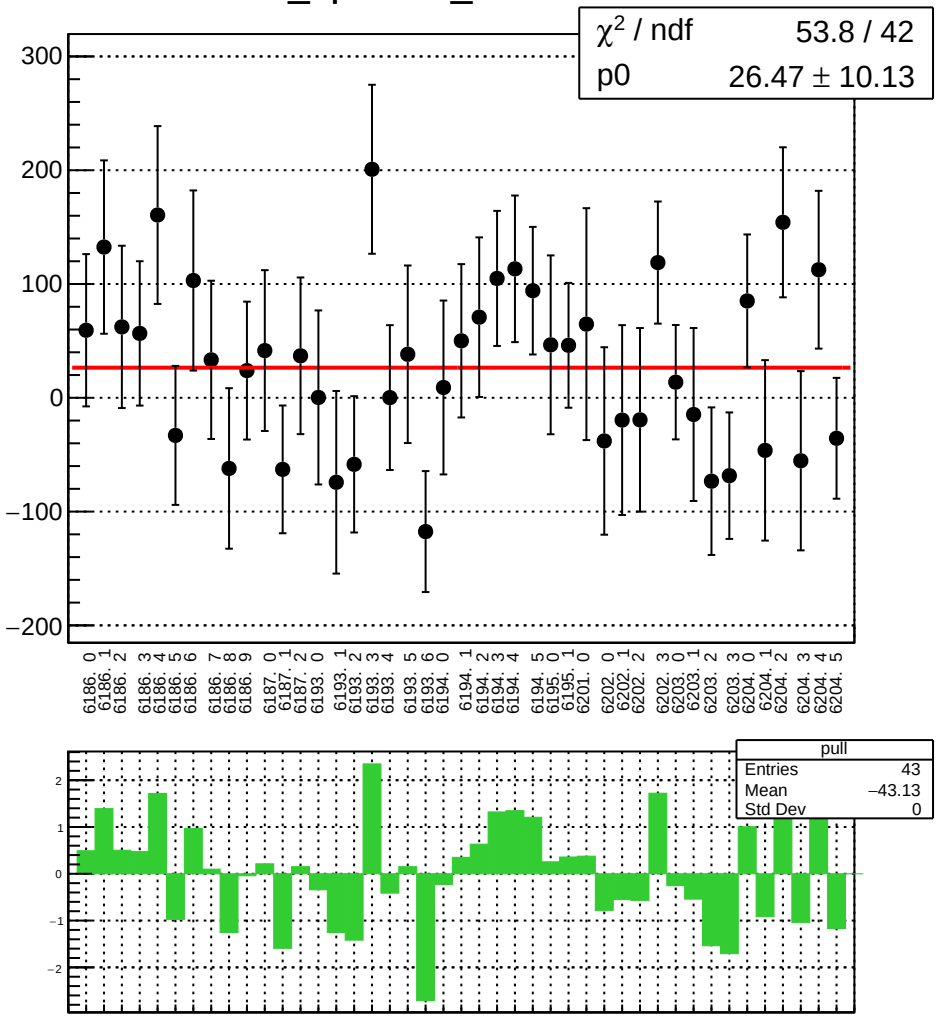

pull1D
Entries 43
Mean 0.01403
Std Dev 1.102

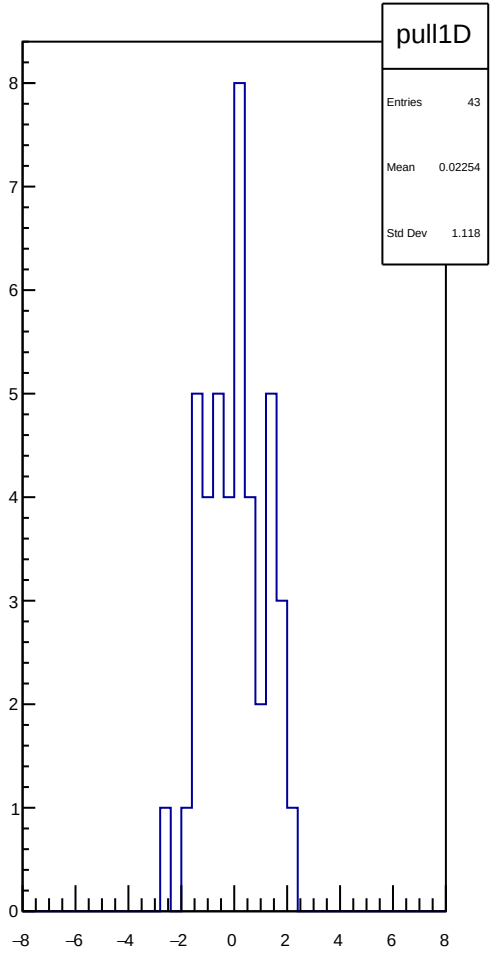

diff_bpm11Y_rms vs run
χ² / ndf 1.677e+04 / 42
p0 8797 ± 9.665
11000
10000
9000
8000
7000
6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

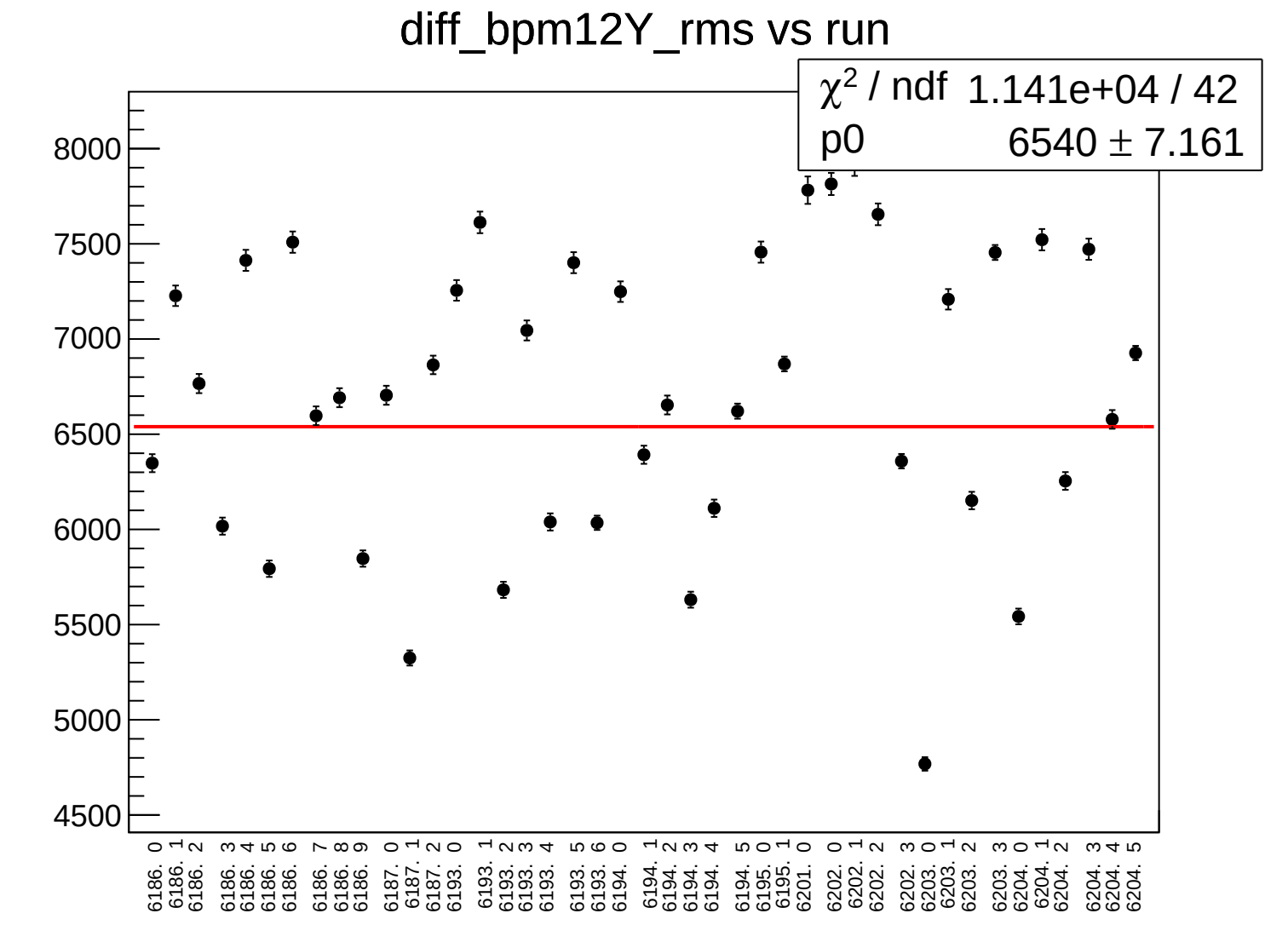

diff_bpm12X_mean vs run
χ² / ndf 64.86 / 42
p0 47.1± 52.7
2500
2000
1500
1000
500
0
−500
−1000
−1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 151.3
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

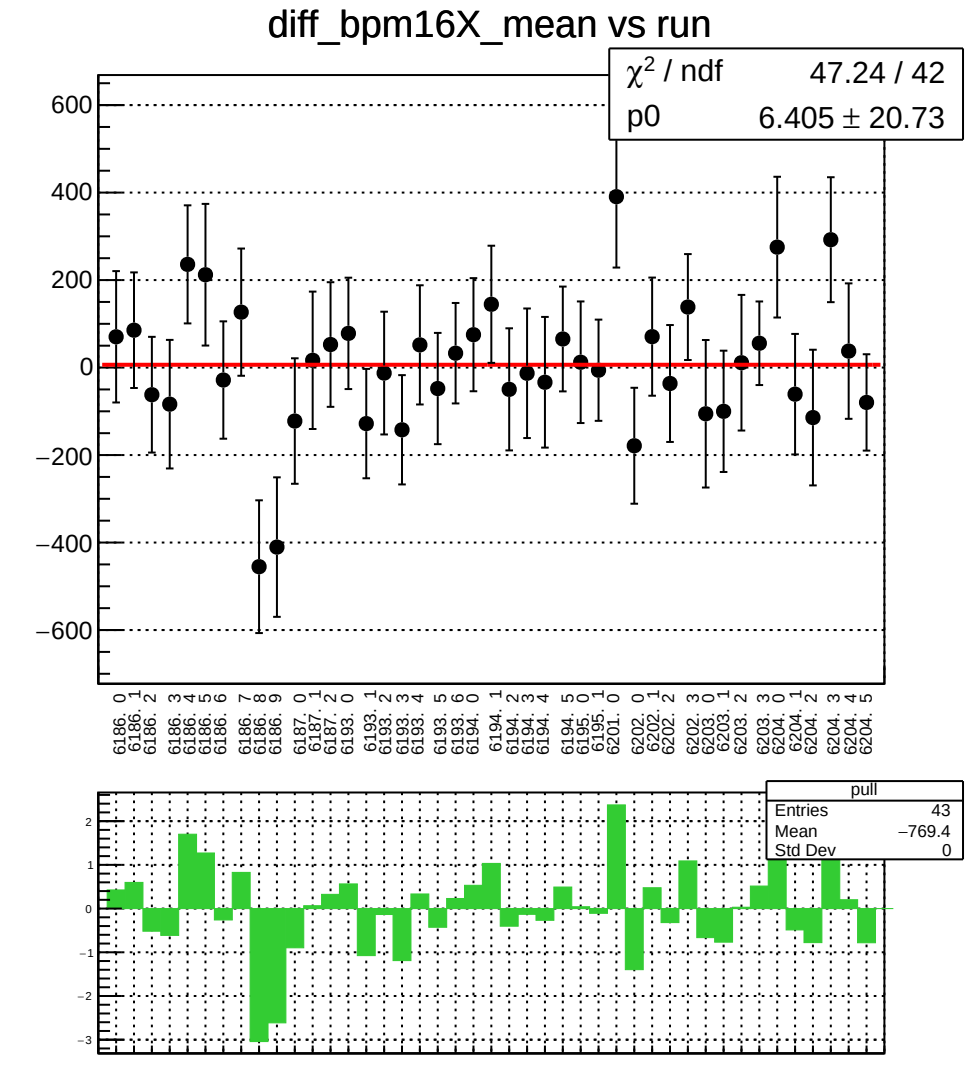

pull1D
Entries 43
Mean 0.01114
Std Dev 1.228
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

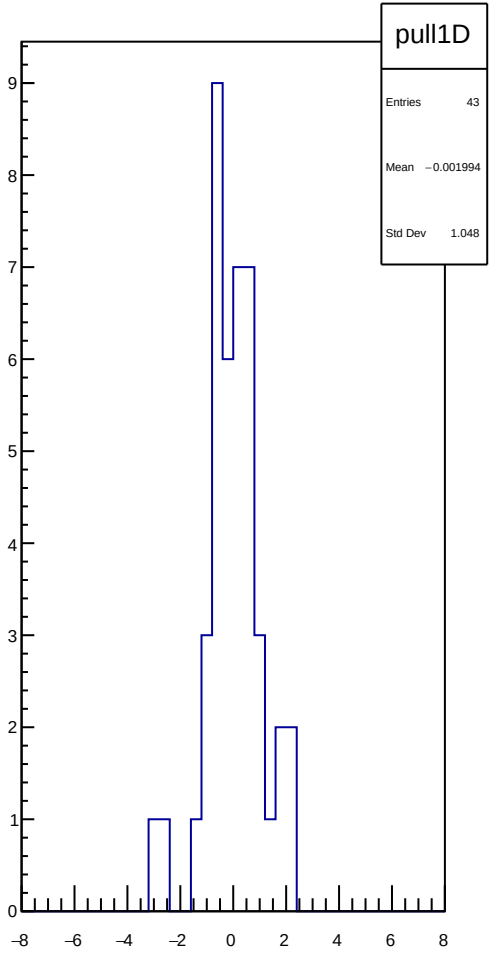

diff_bpm12X_rms vs run
χ² / ndf 4140 / 42
p0 3.417e+04 ± 37.26
38000
37000
36000
35000
34000
33000
32000
31000
30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

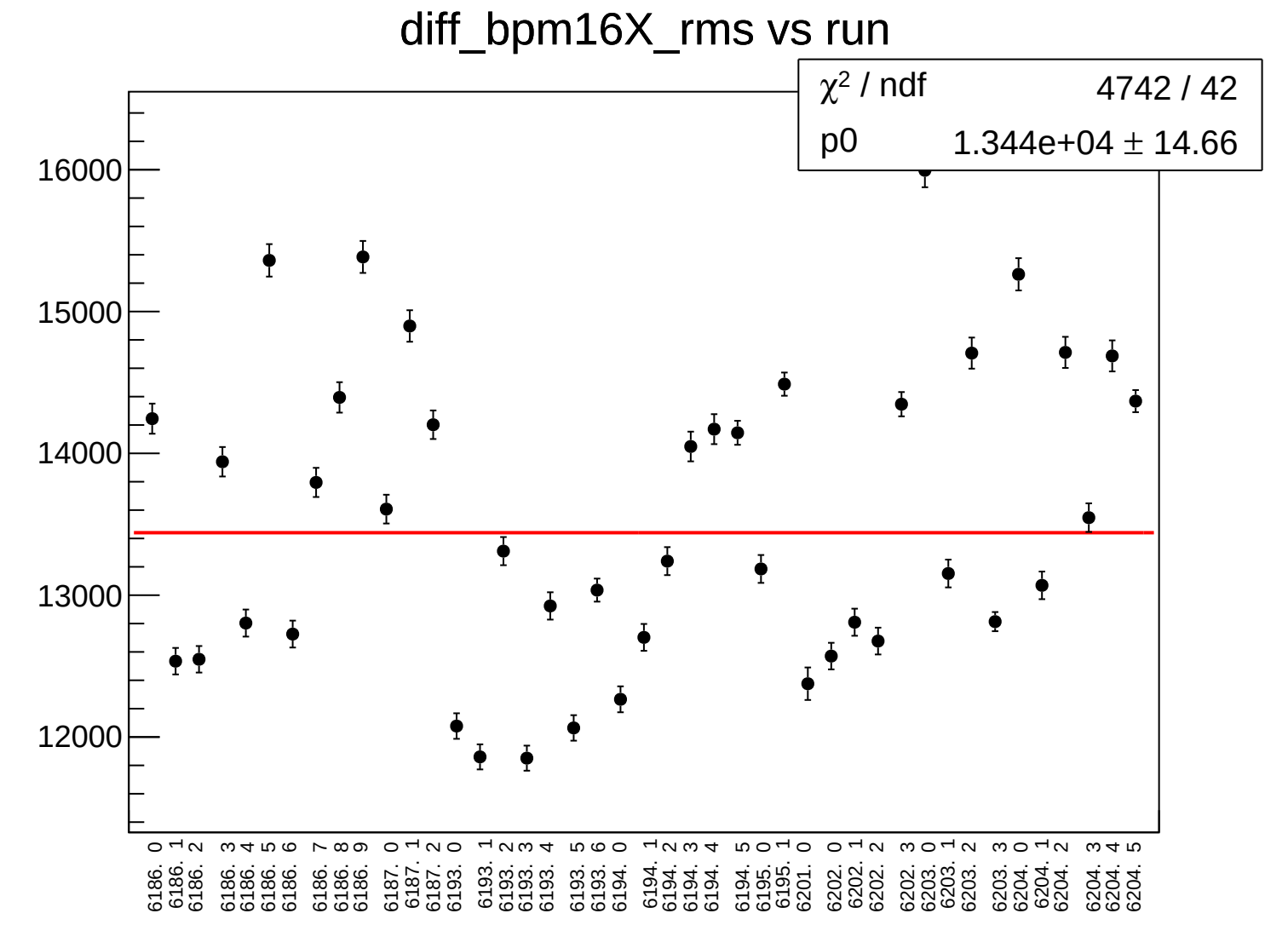

diff_bpm12Y_mean vs run
χ² / ndf 53.8 / 42
p0 26.47 ± 10.13
300
200
100
0
−100
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −43.13
Std Dev 0
2
1
0
−1
−2

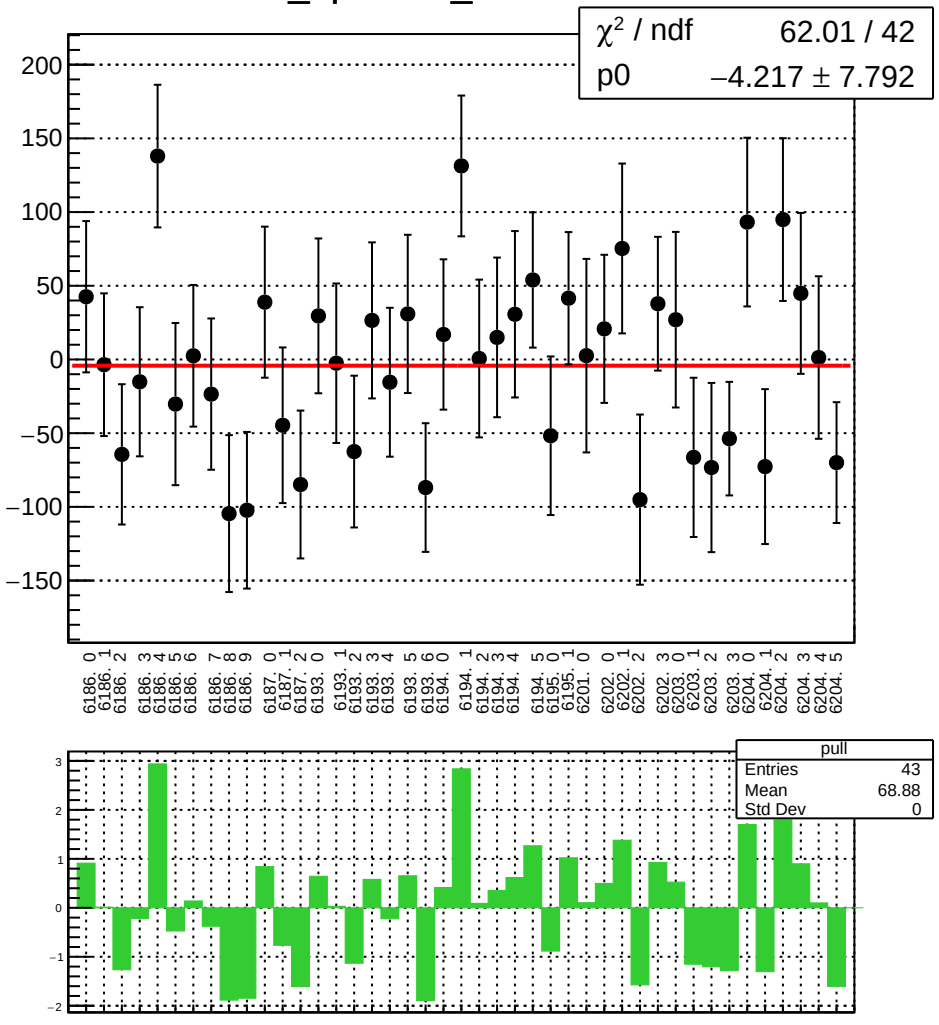

pull1D
Entries 43
Mean 0.02254
Std Dev 1.118
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

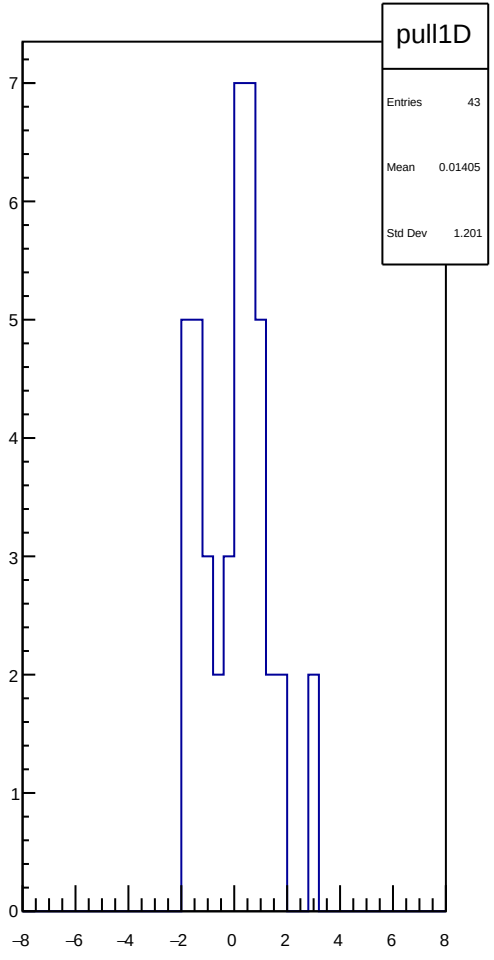

diff_bpm12Y_rms vs run
χ² / ndf 1.141e+04 / 42
p0 6540 ± 7.161
8000
7500
7000
6500
6000
5500
5000
4500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

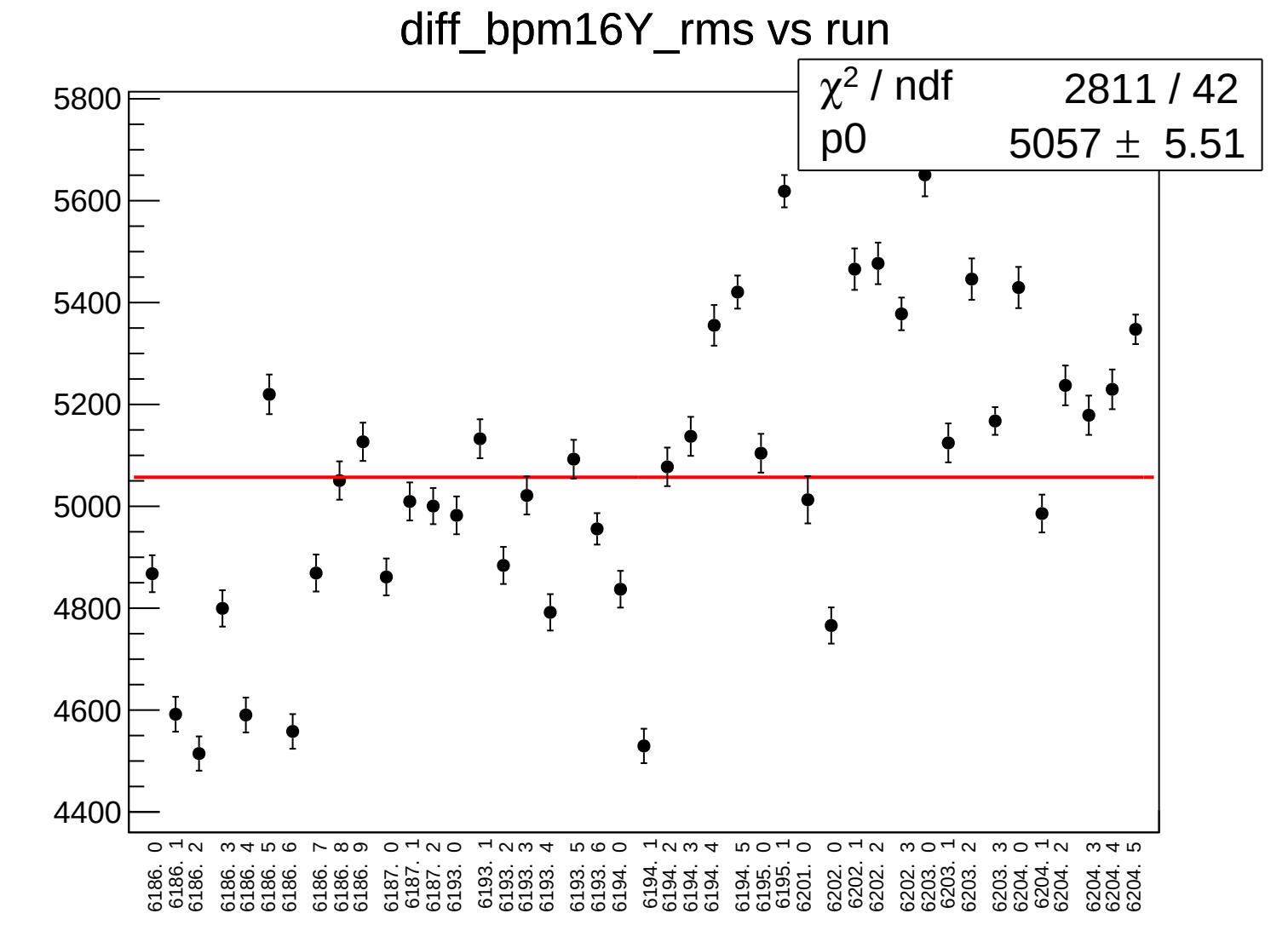

diff_bpm16X_mean vs run
χ² / ndf 47.24 / 42
p0 6.405 ± 20.73
600
400
200
0
−200
−400
−600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −769.4
Std Dev 0
2
1
0
−1
−2
−3

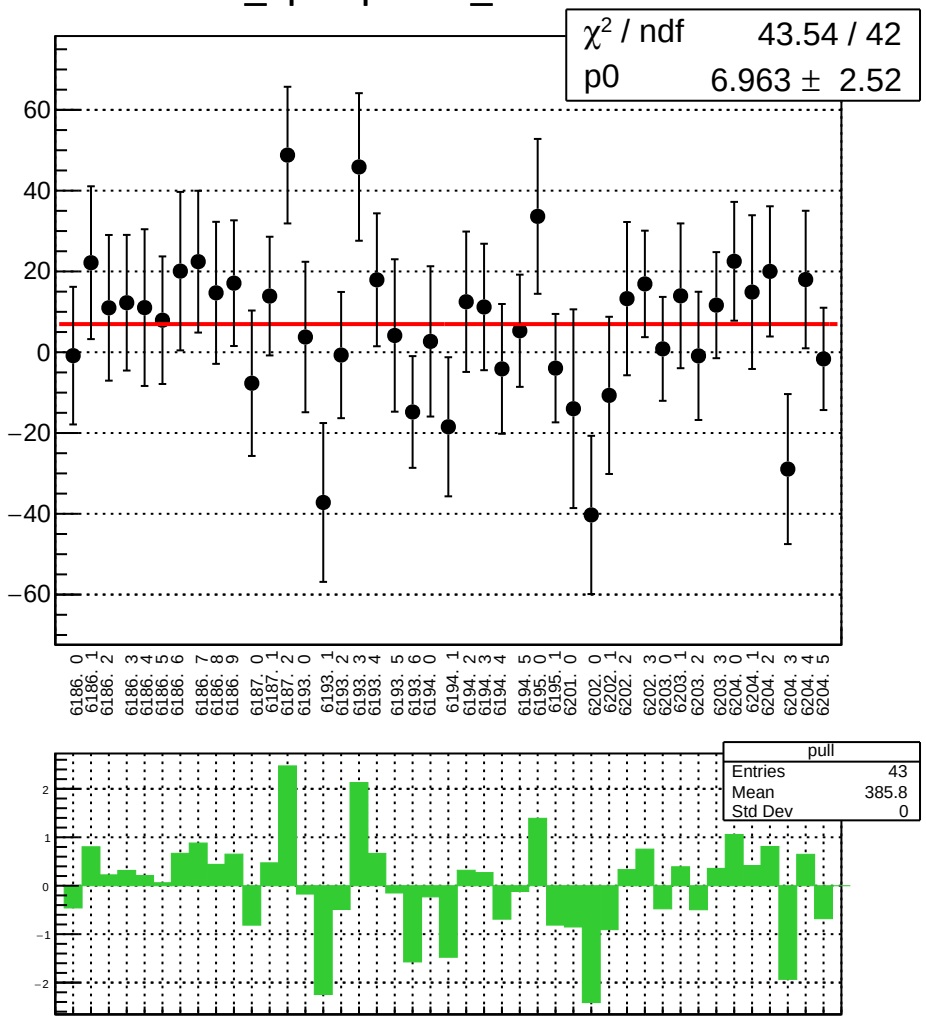

pull1D
Entries 43
Mean −0.001994
Std Dev 1.048
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

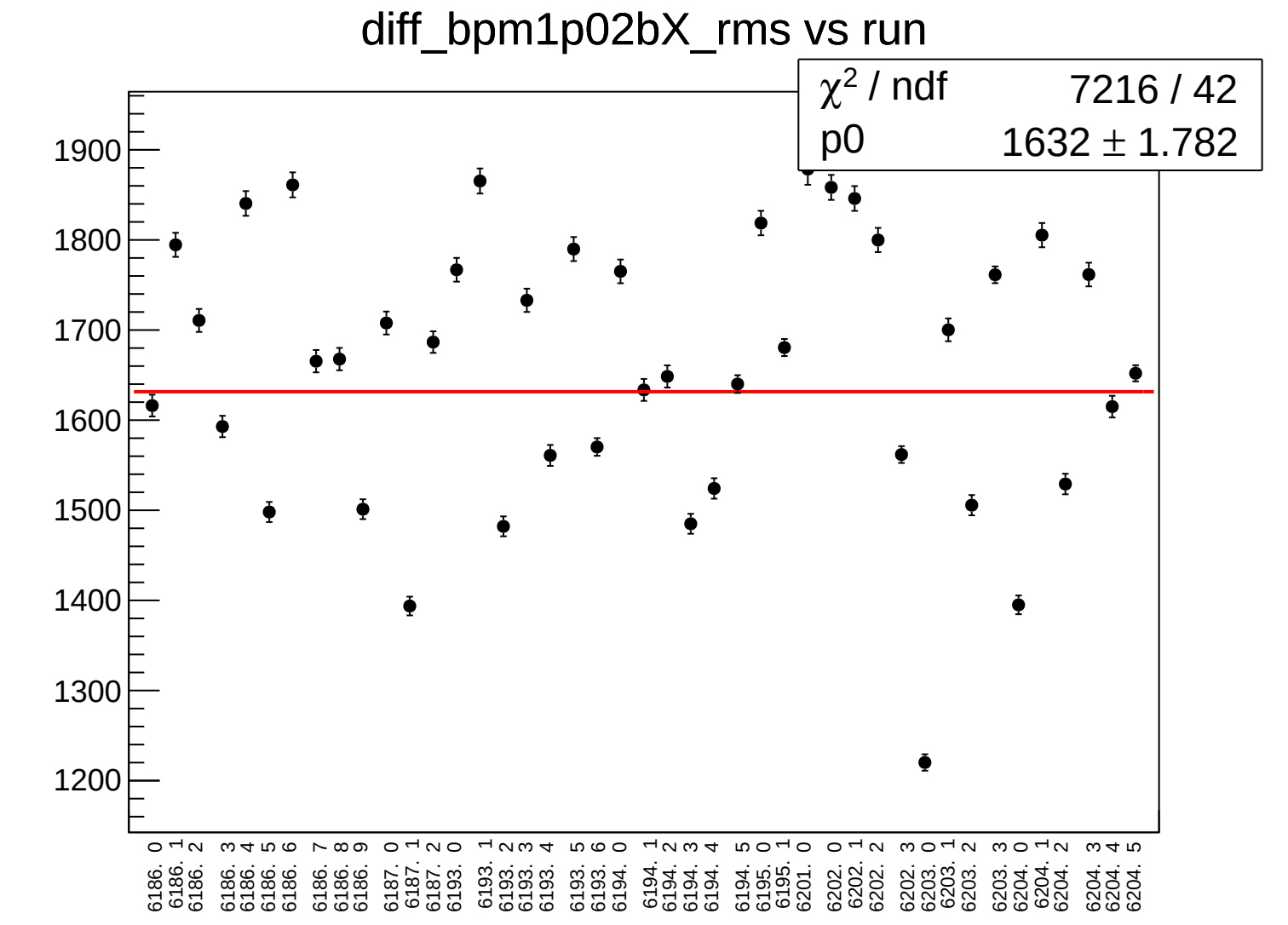

diff_bpm16X_rms vs run
χ² / ndf 4742 / 42
p0 1.344e+04 ± 14.66
16000
15000
14000
13000
12000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

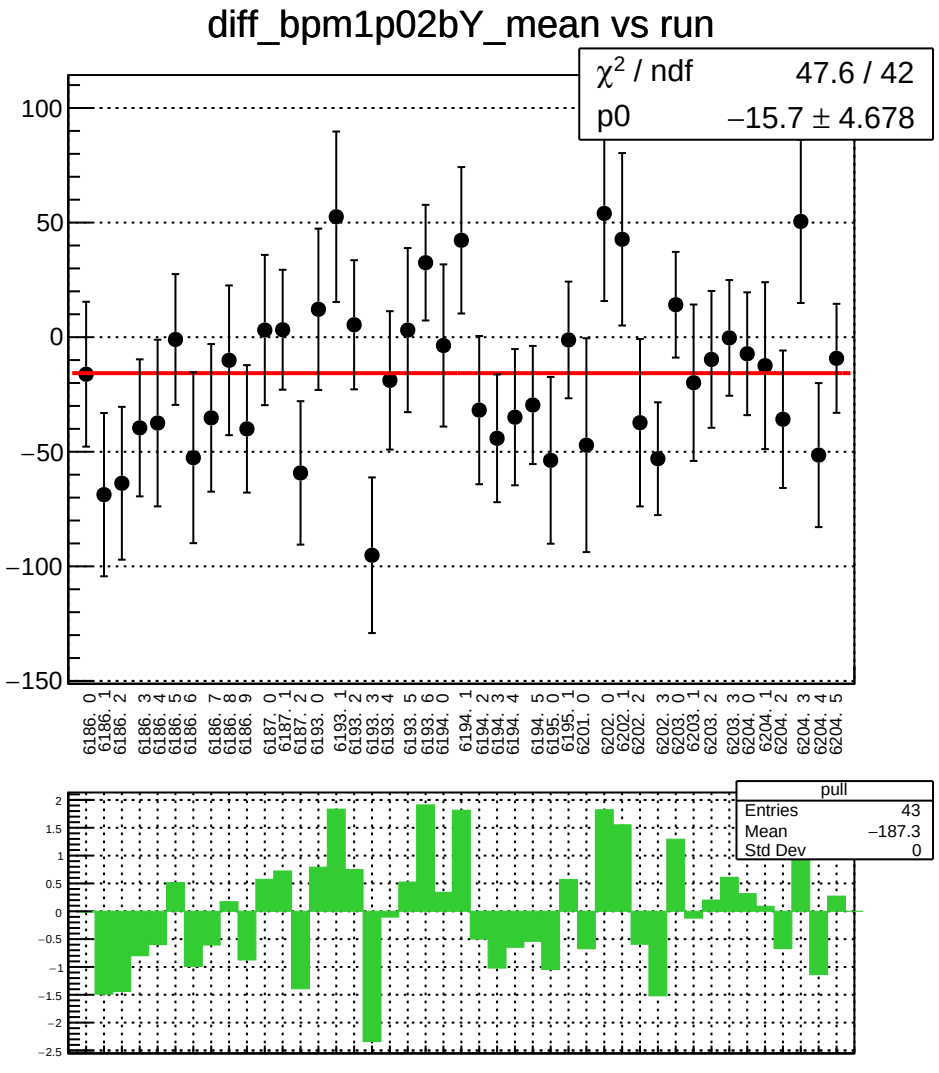

diff_bpm16Y_mean vs run
χ² / ndf 62.01 / 42
p0 −4.217 ± 7.792
200
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 68.88
Std Dev 0
3
2
1
0
−1
−2

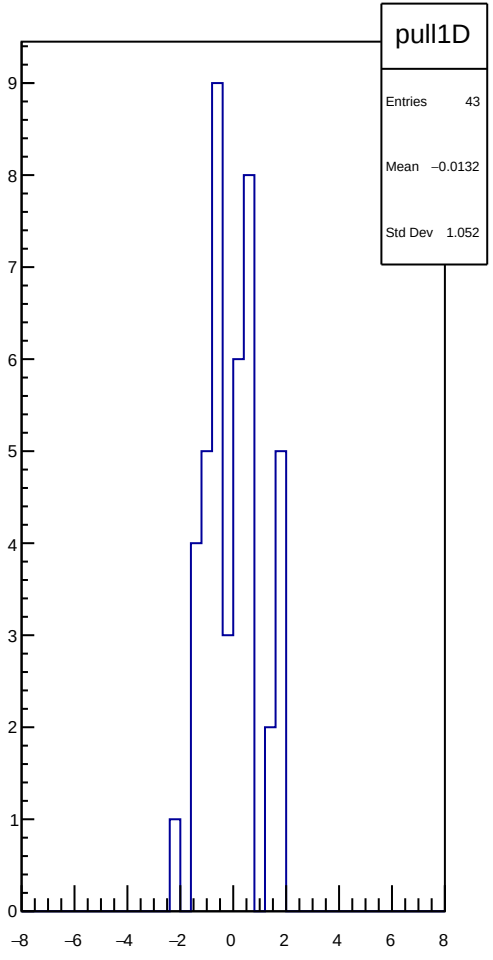

pull1D
Entries 43
Mean 0.01405
Std Dev 1.201
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

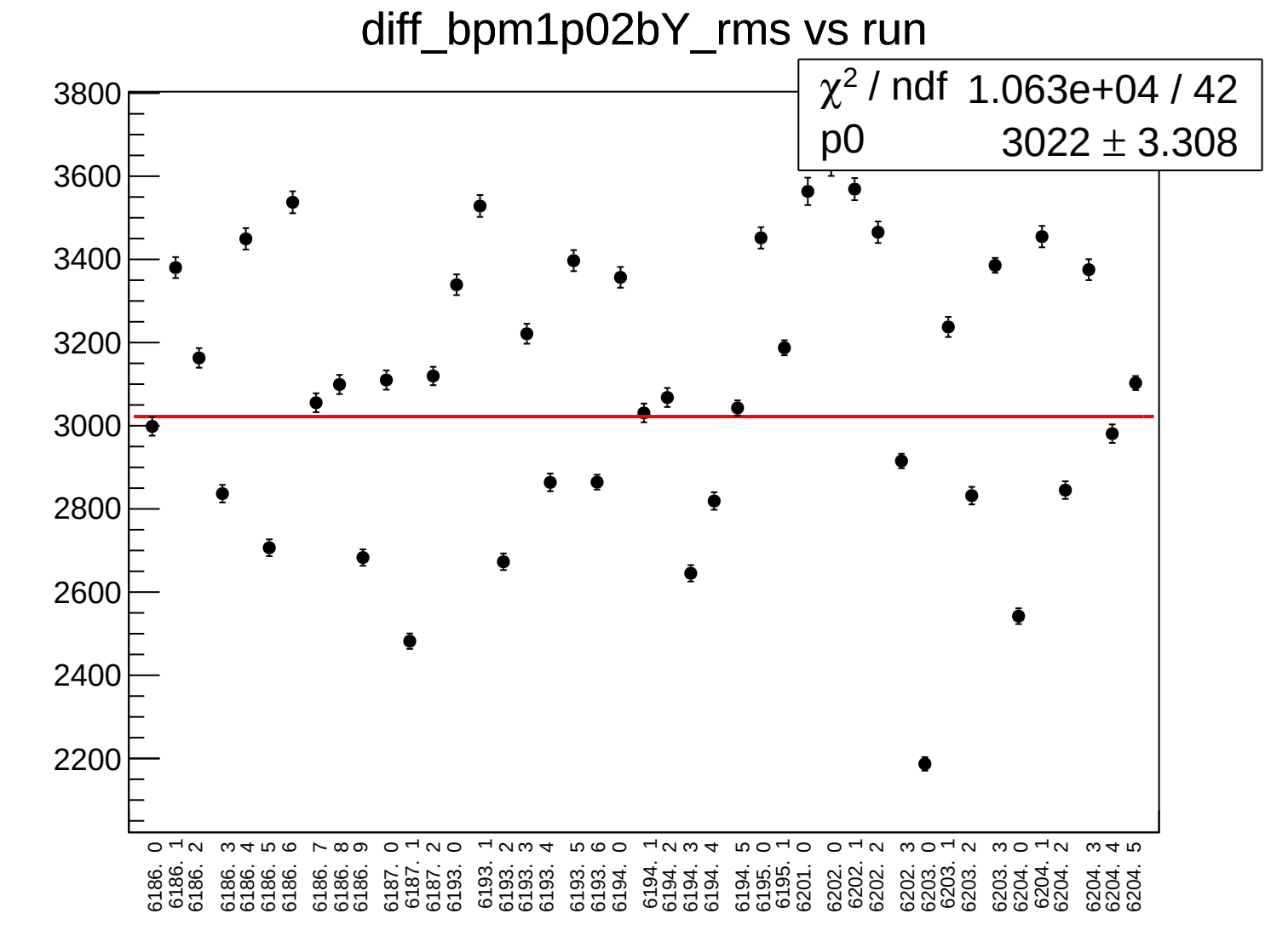

diff_bpm16Y_rms vs run
χ² / ndf 2811 / 42
p0 5057 ± 5.51
5800
5600
5400
5200
5000
4800
4600
4400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

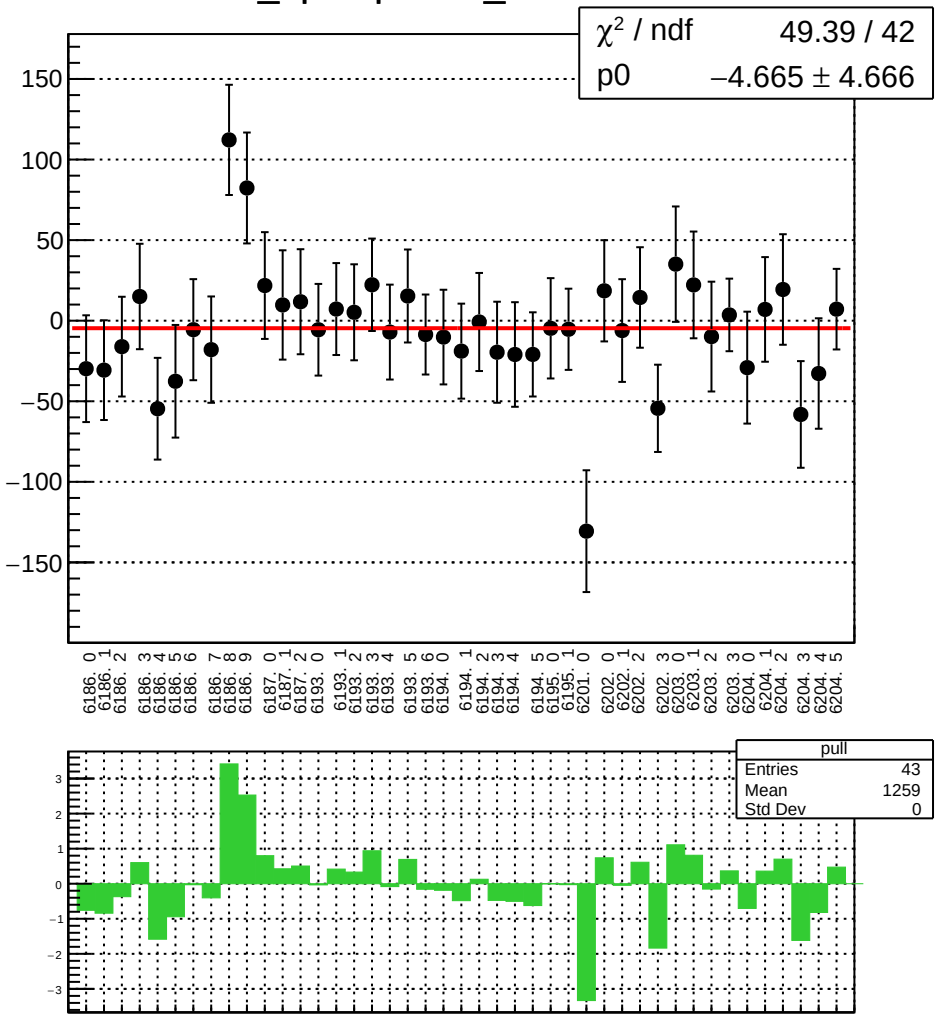

diff_bpm1p02bX_mean vs run
χ² / ndf 43.54 / 42
p0 6.963 ± 2.52
60
40
20
0
−20
−40
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 385.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.005579
Std Dev 1.006
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

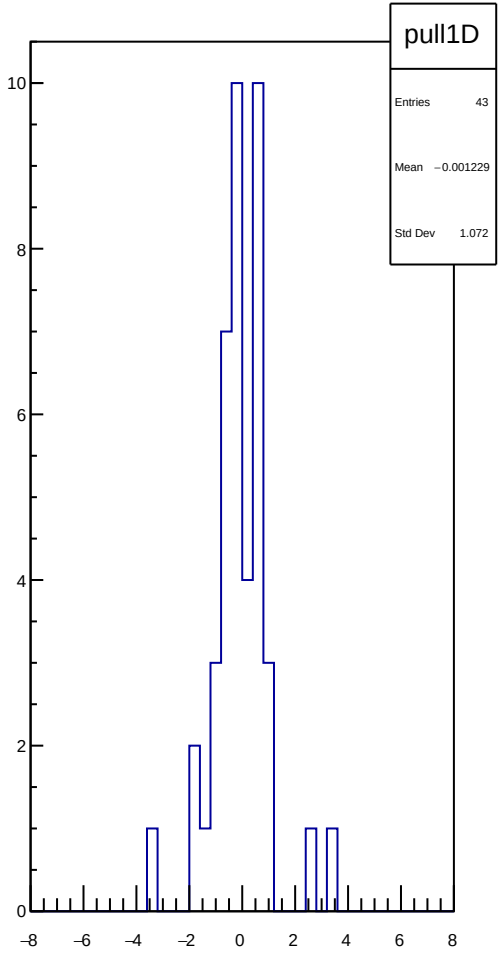

diff_bpm1p02bX_rms vs run
χ² / ndf 7216 / 42
p0 1632 ± 1.782
1900
1800
1700
1600
1500
1400
1300
1200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

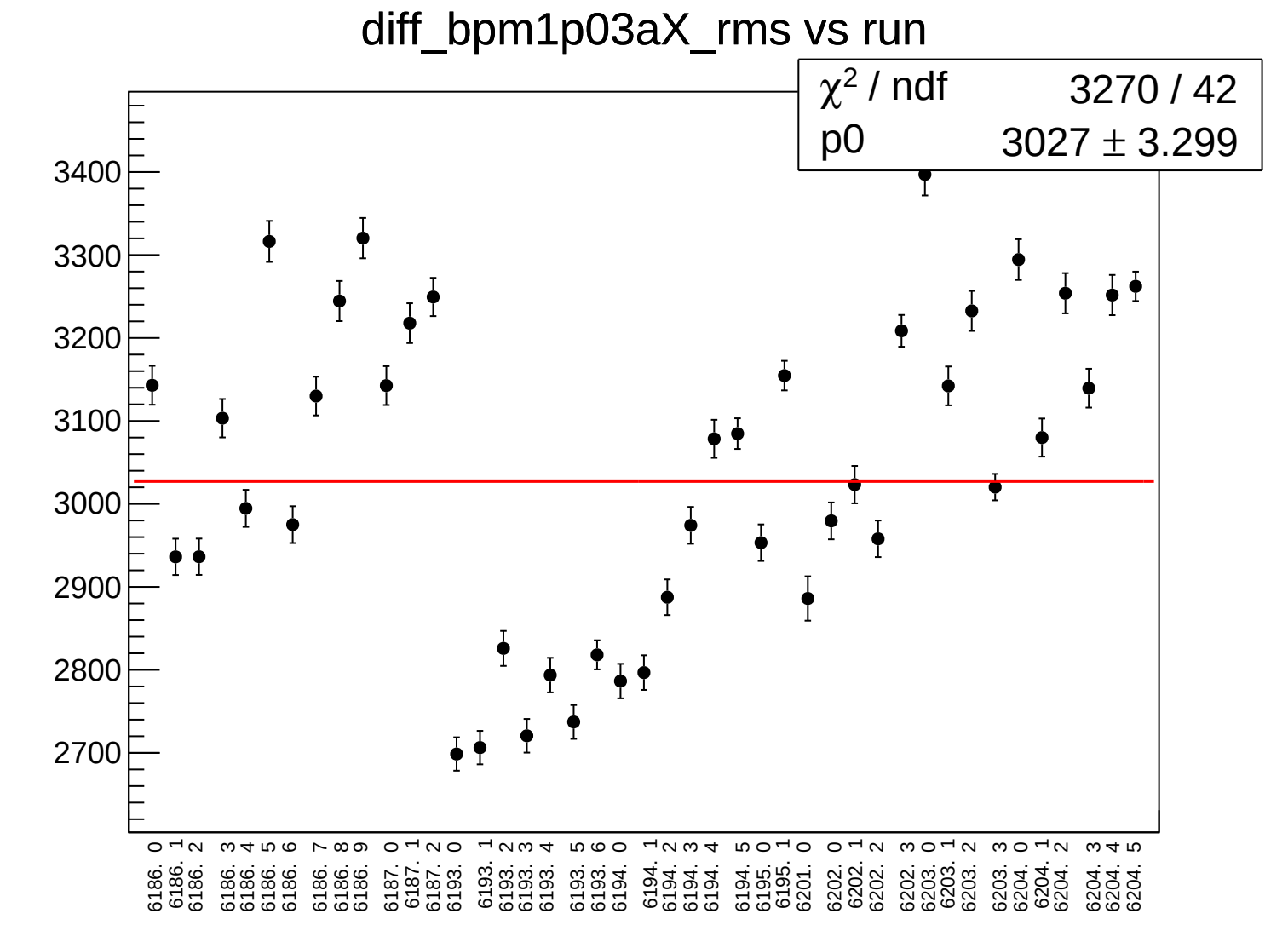

diff_bpm1p02bY_mean vs run
χ² / ndf 47.6 / 42
p0 −15.7 ± 4.678
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −187.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

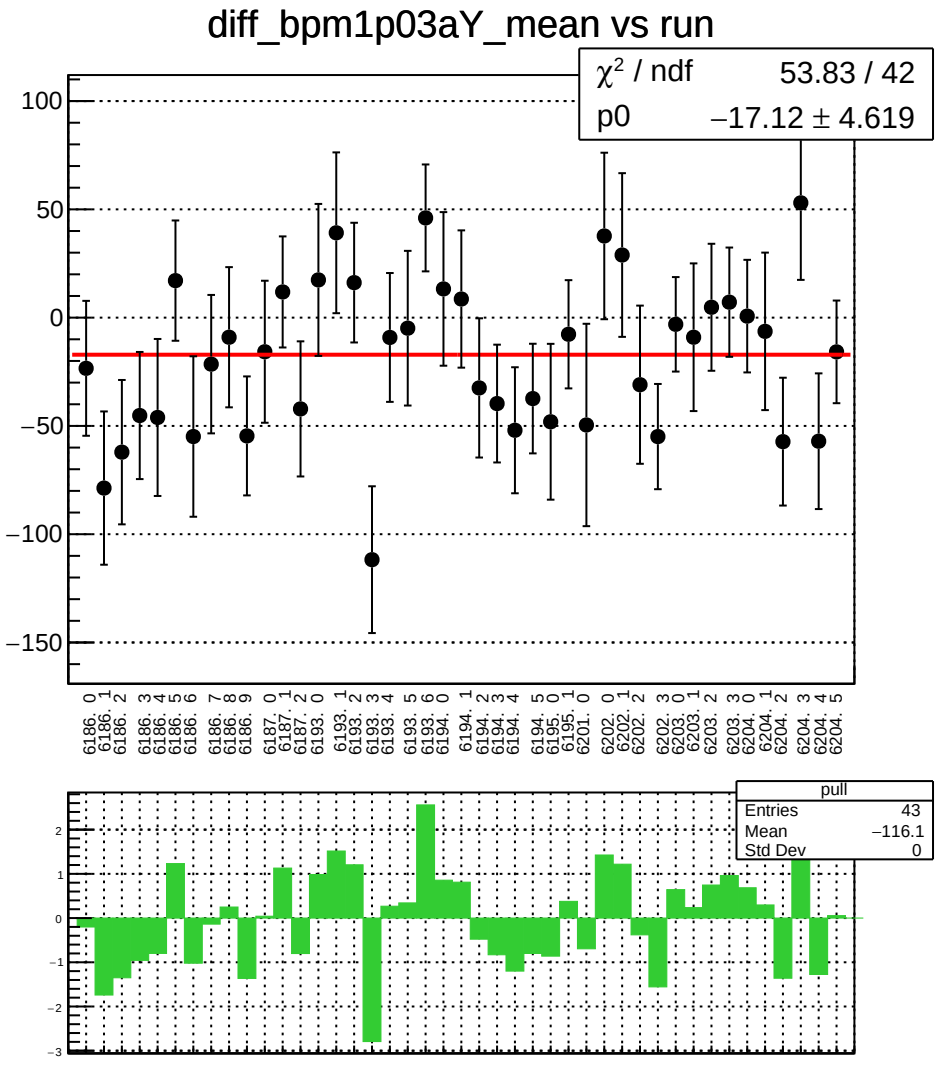

pull1D
Entries 43
Mean −0.0132
Std Dev 1.052
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

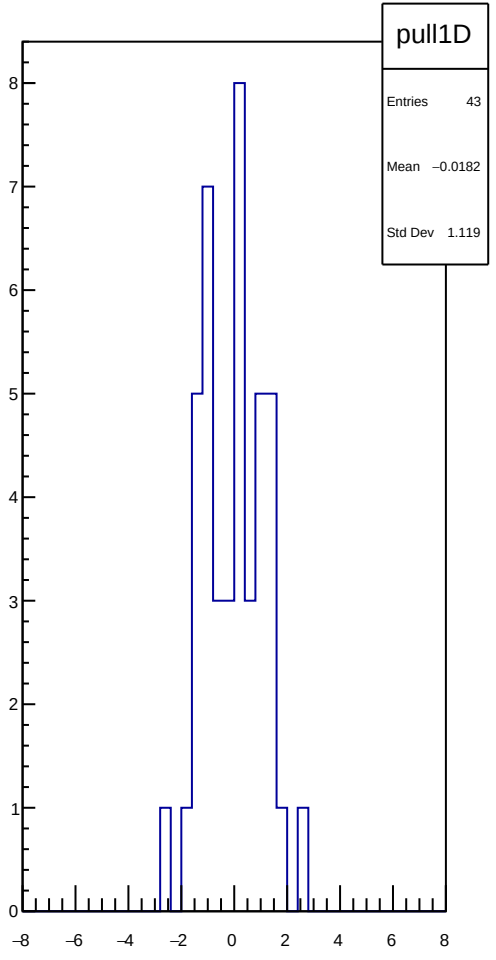

diff_bpm1p02bY_rms vs run
χ² / ndf 1.063e+04 / 42
p0 3022 ± 3.308
3800
3600
3400
3200
3000
2800
2600
2400
2200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

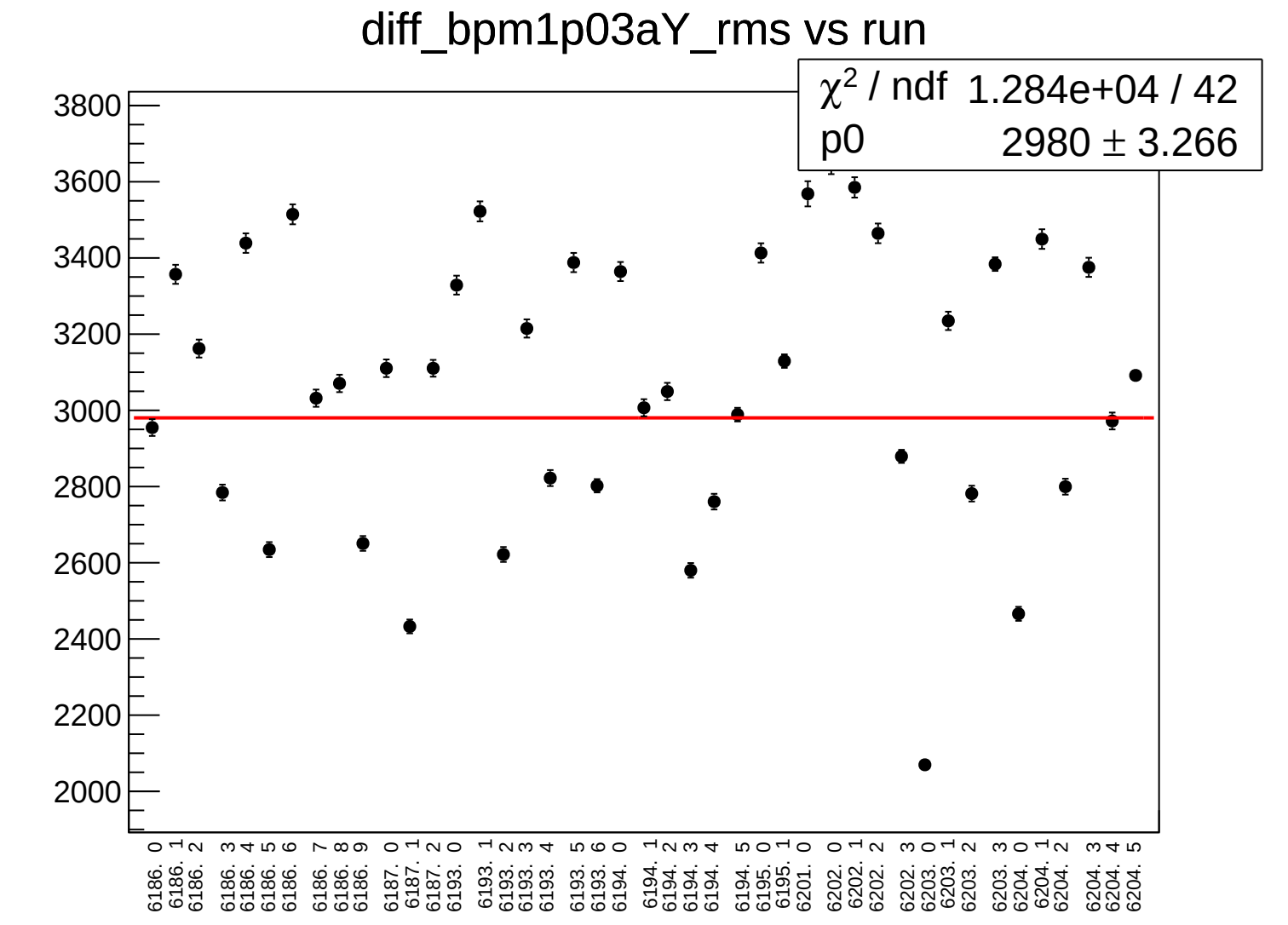

diff_bpm1p03aX_mean vs run
χ² / ndf 49.39 / 42
p0 −4.665 ± 4.666
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1259
Std Dev 0
3
2
1
0
−1
−2
−3

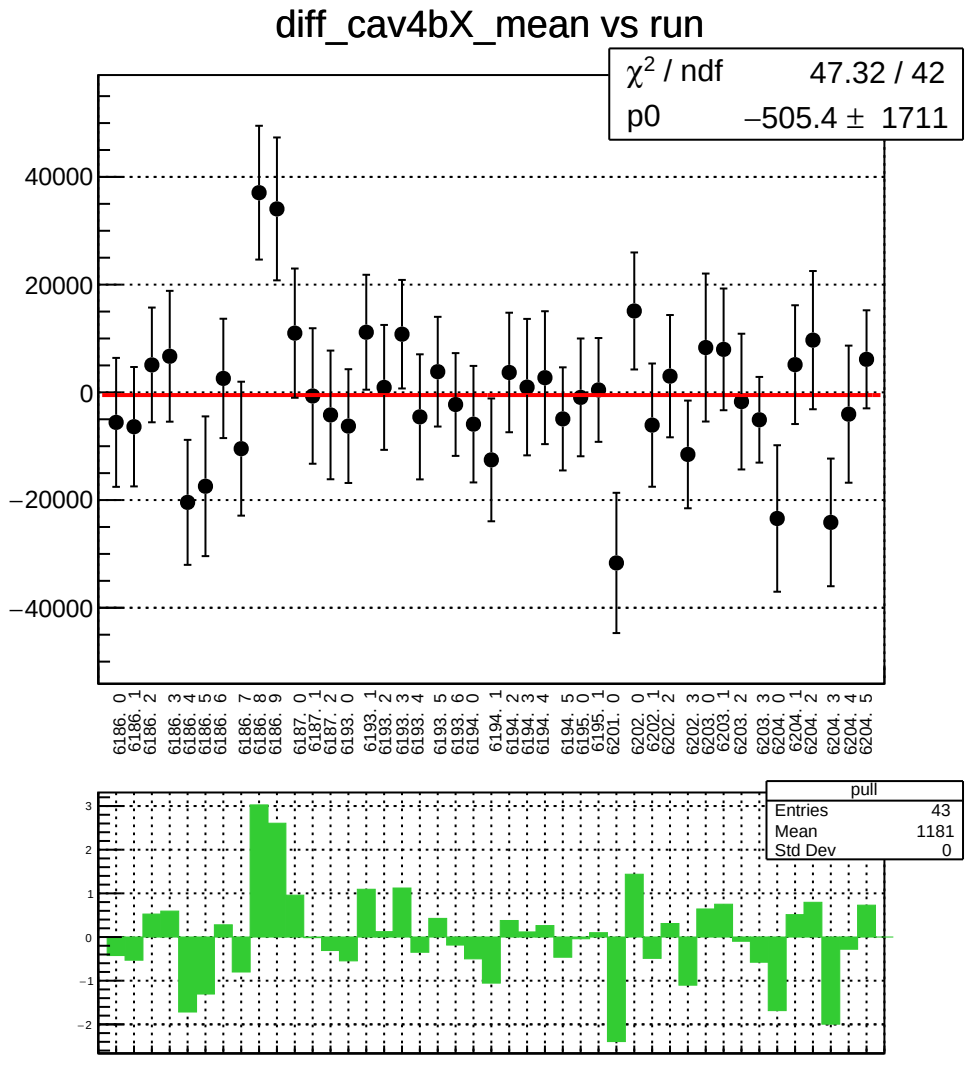

pull1D
Entries 43
Mean −0.001229
Std Dev 1.072
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

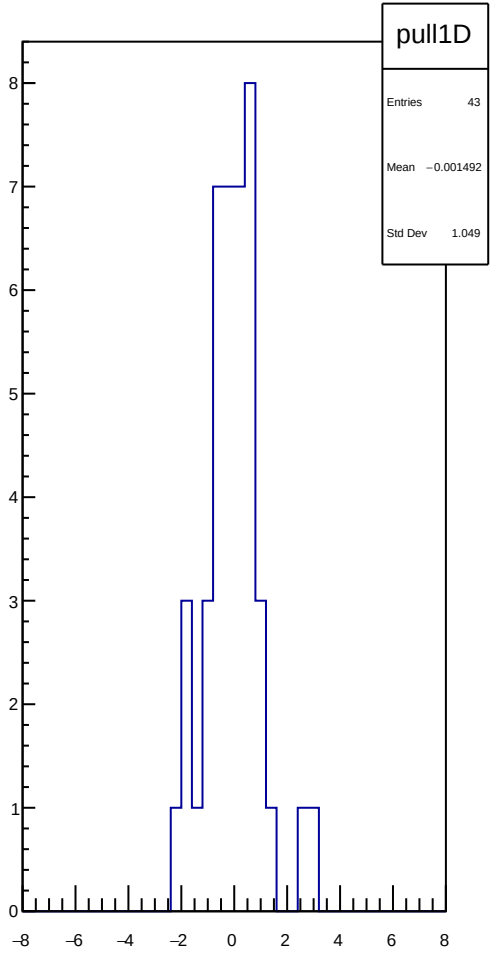

diff_bpm1p03aX_rms vs run
χ² / ndf 3270 / 42
p0 3027 ± 3.299
3400
3300
3200
3100
3000
2900
2800
2700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

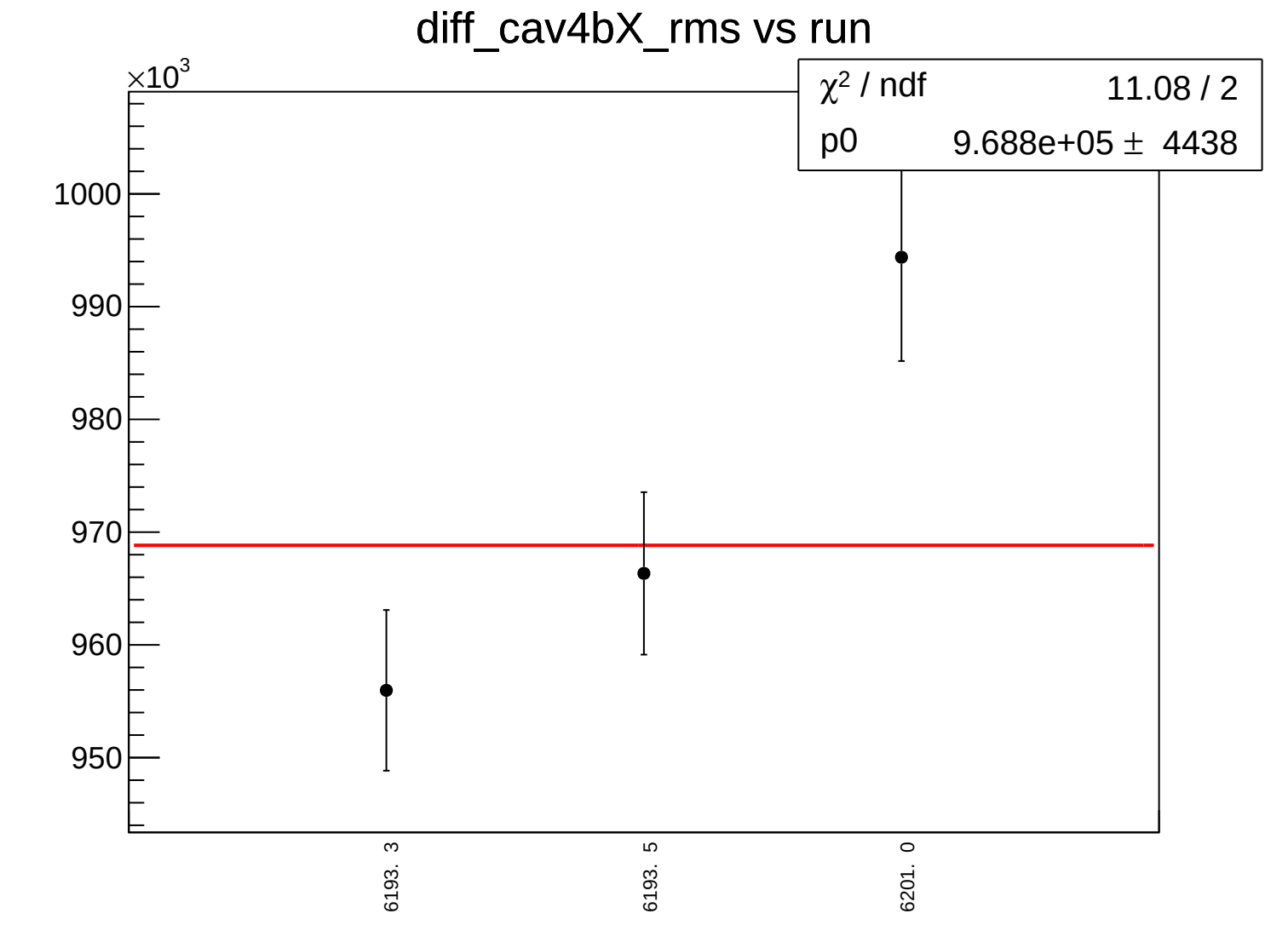

diff_bpm1p03aY_mean vs run
χ² / ndf 53.83 / 42
p0 −17.12 ± 4.619
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −116.1
Std Dev 0
2
1
0
−1
−2
−3

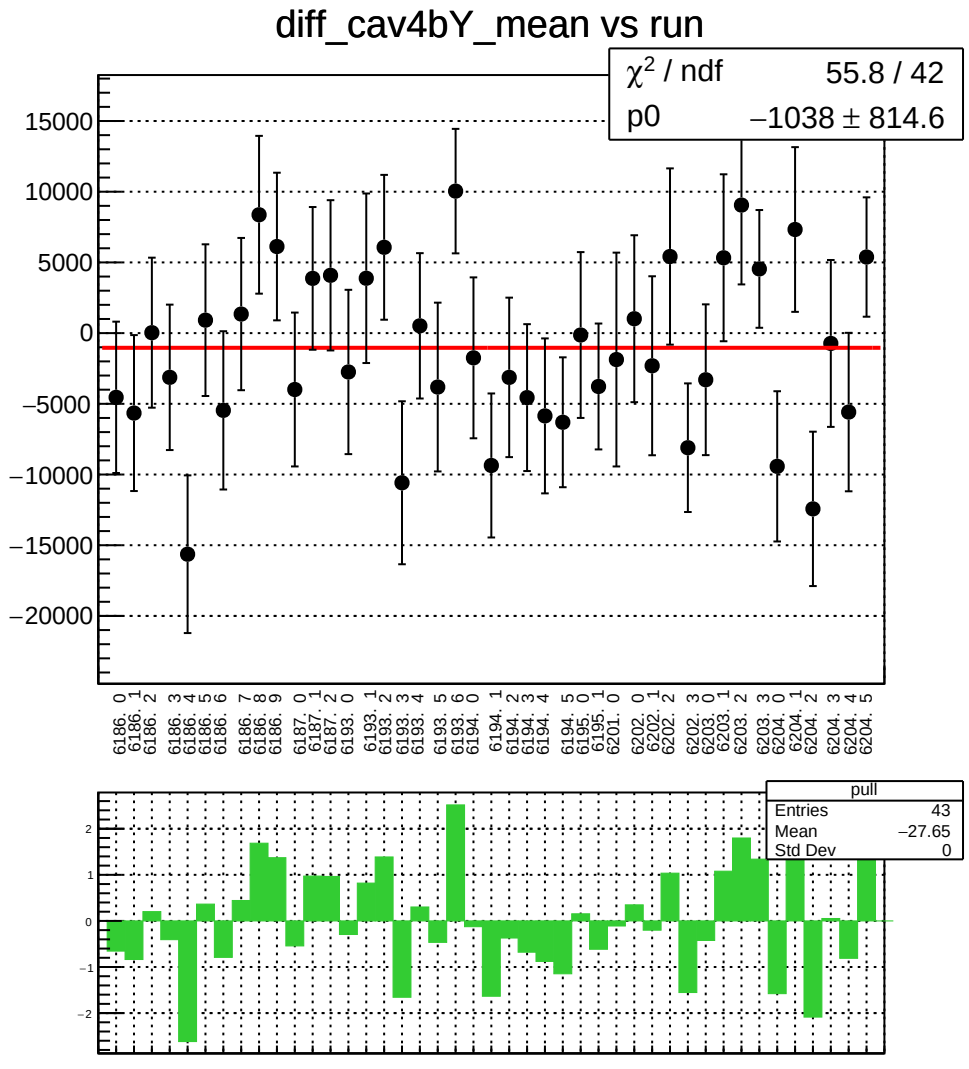

pull1D
Entries 43
Mean −0.0182
Std Dev 1.119
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

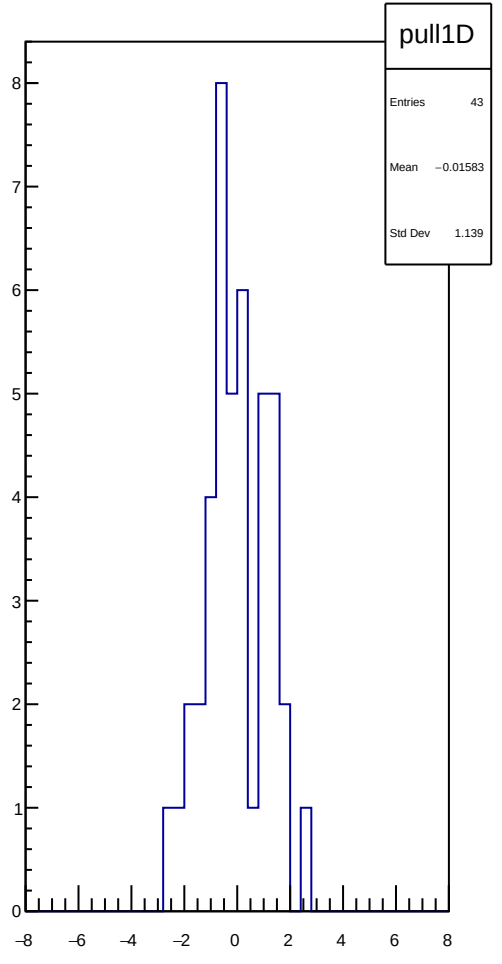

diff_bpm1p03aY_rms vs run
χ² / ndf 1.284e+04 / 42
p0 2980 ± 3.266
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

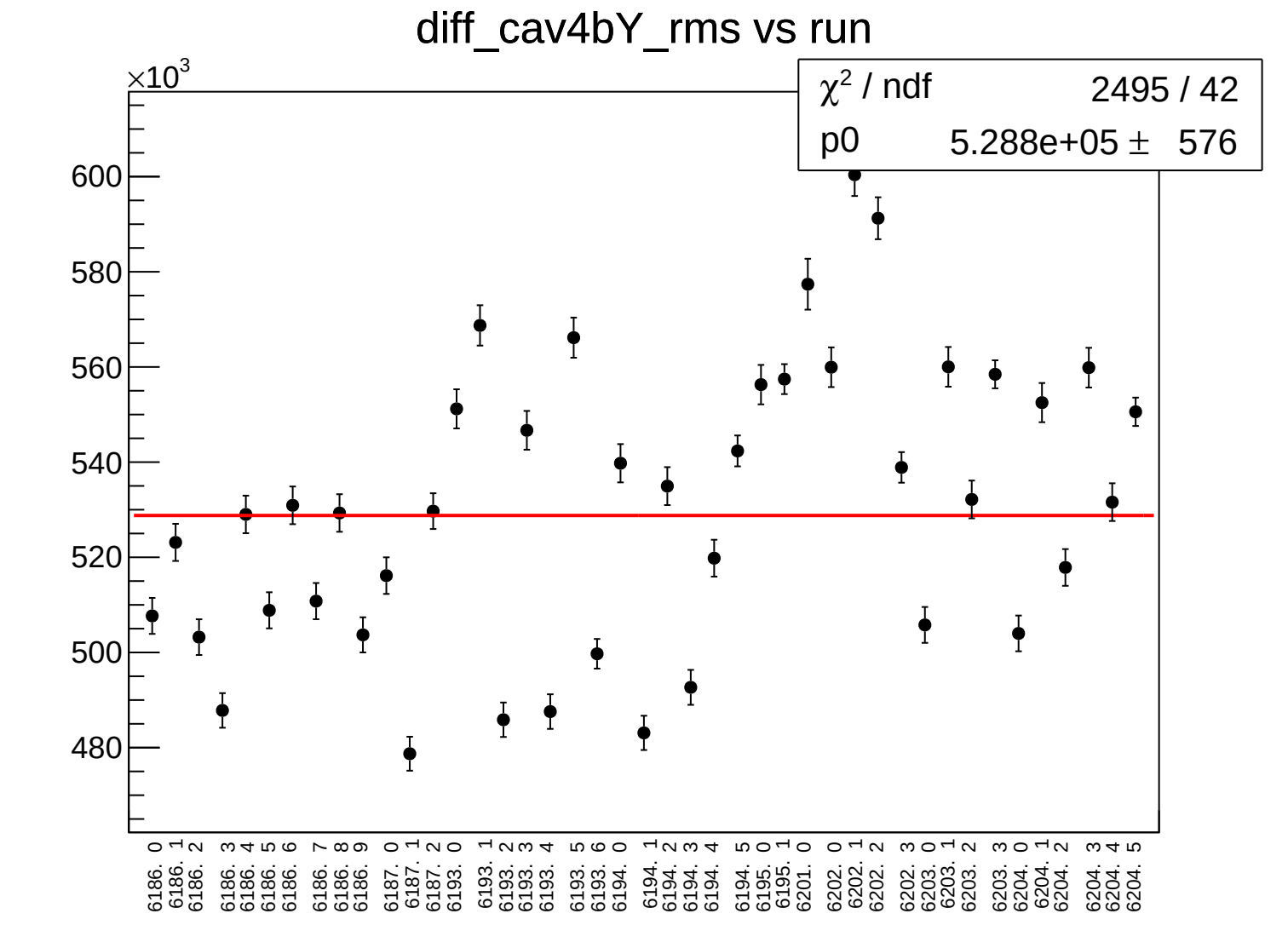

diff_cav4bX_mean vs run
χ² / ndf 47.32 / 42
p0 −505.4 ± 1711
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1181
Std Dev 0
3
2
1
0
−1
−2

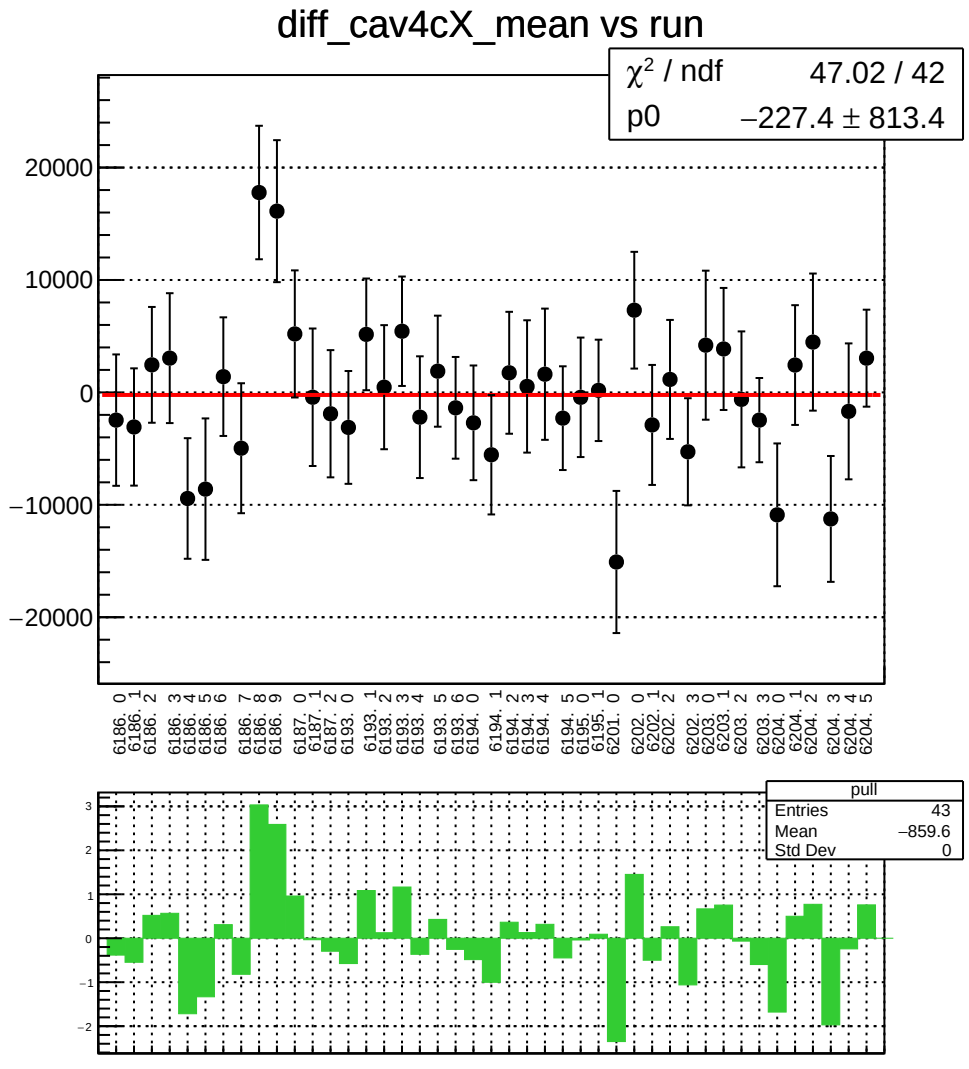

pull1D
Entries 43
Mean −0.001492
Std Dev 1.049
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

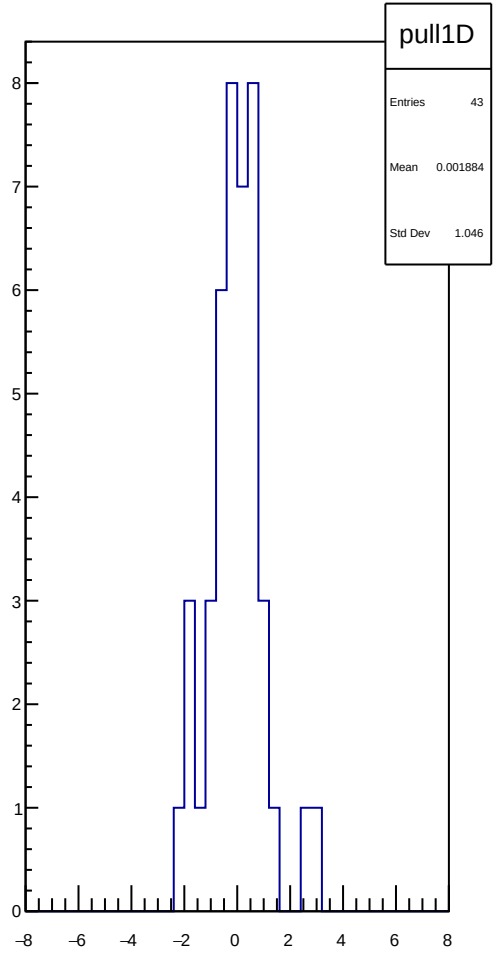

diff_cav4bX_rms vs run
×10^3
1000
990
980
970
960
950
χ² / ndf 11.08 / 2
p0 9.688e+05 ± 4438
6193. 3
6193. 5
6201. 0

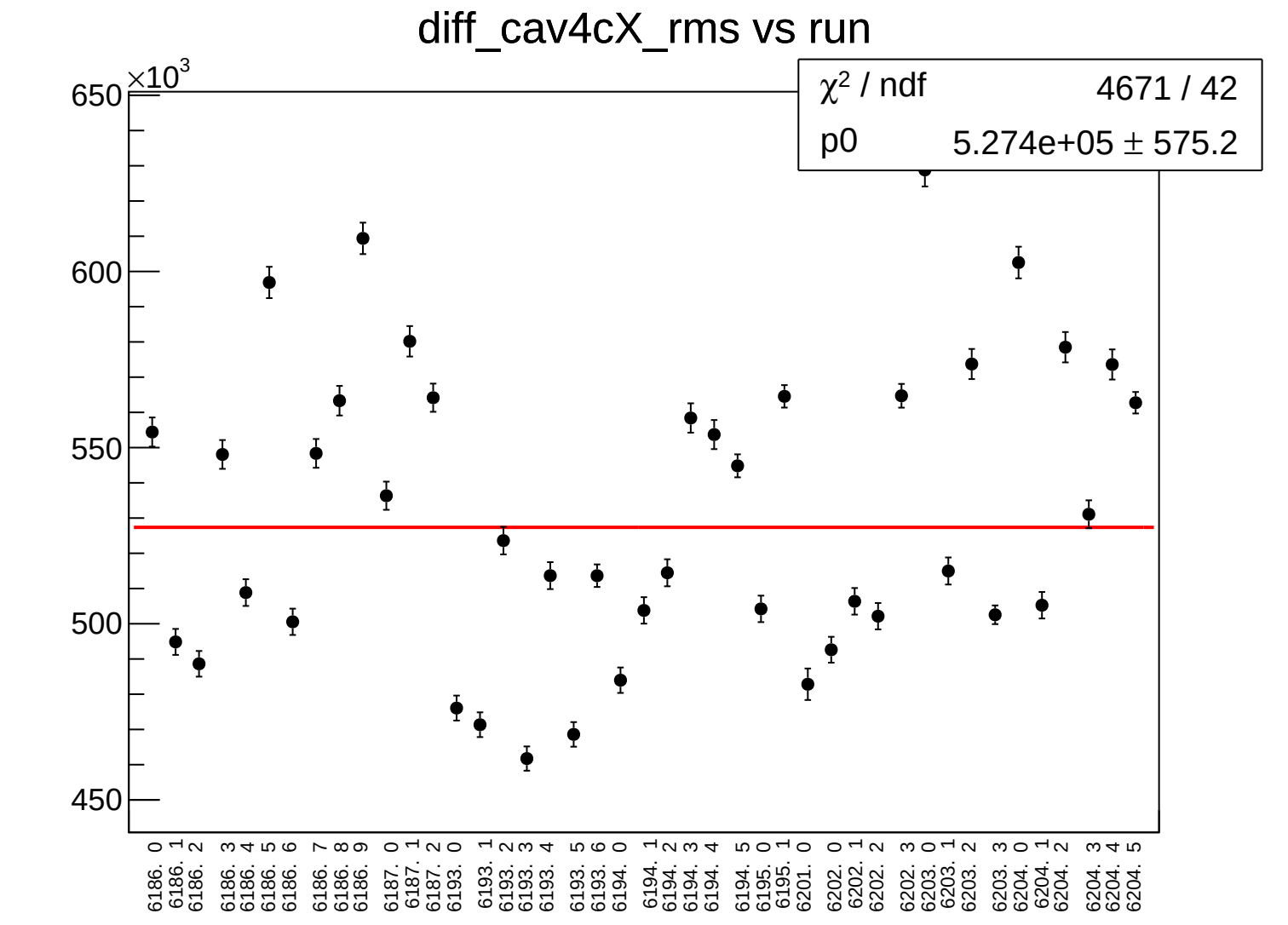

diff_cav4bY_mean vs run
χ² / ndf 55.8 / 42
p0 −1038 ± 814.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −27.65
Std Dev 0
2
1
0
−1
−2

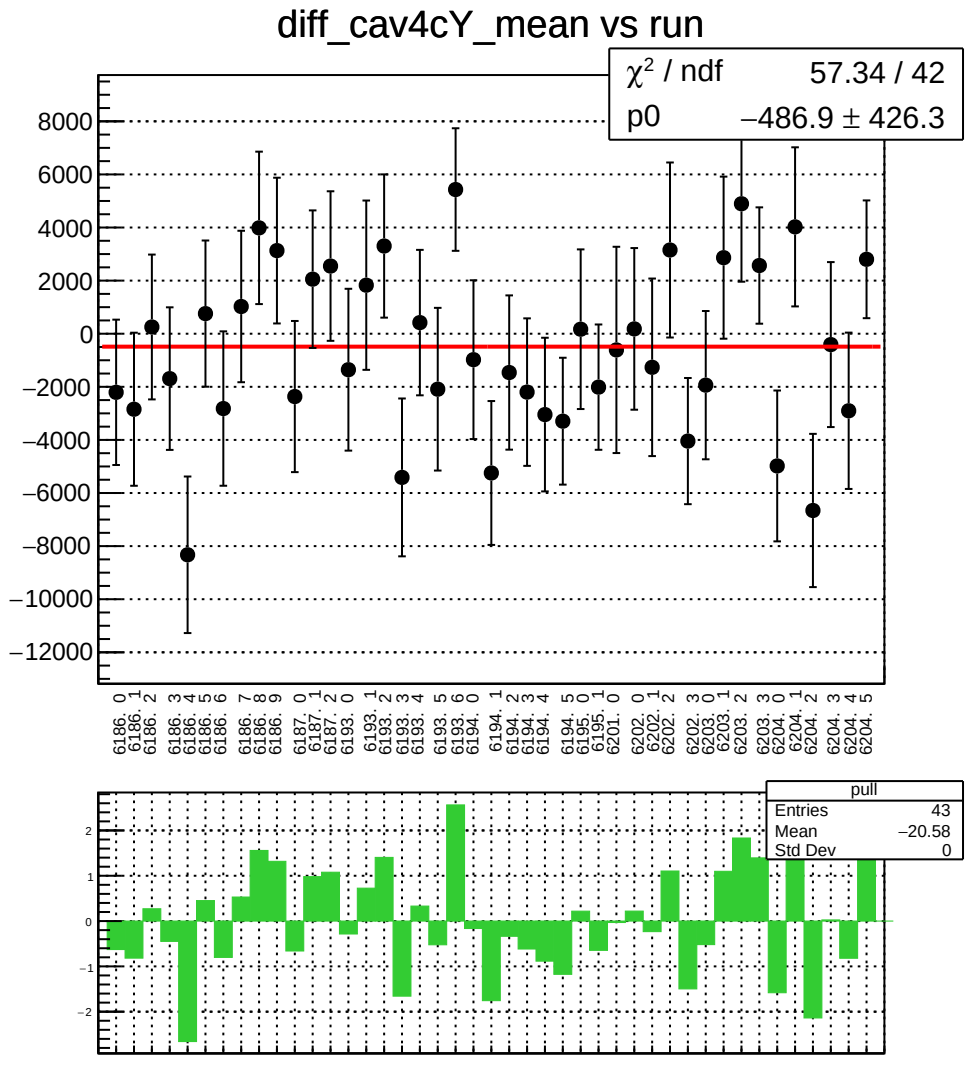

pull1D
Entries 43
Mean −0.01583
Std Dev 1.139
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

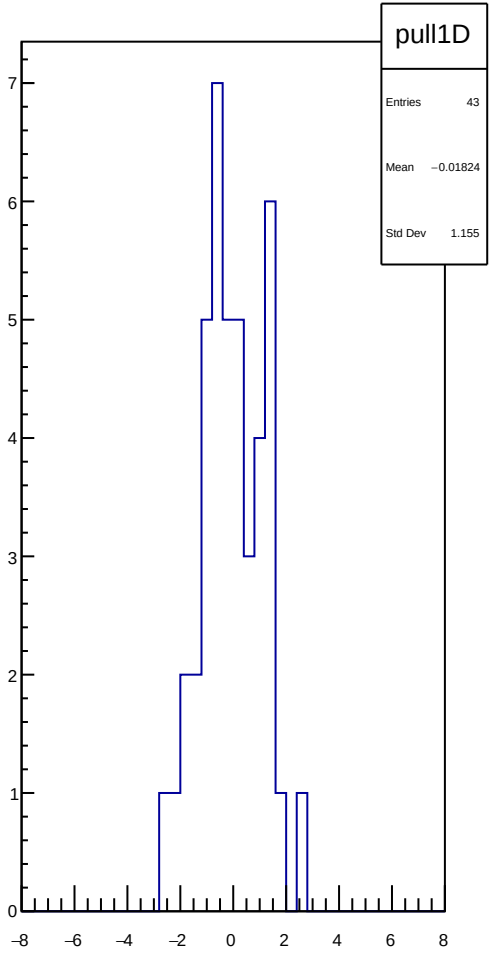

diff_cav4bY_rms vs run
×10^3
χ^2 / ndf 2495 / 42
p0 5.288e+05 ± 576
600
580
560
540
520
500
480
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

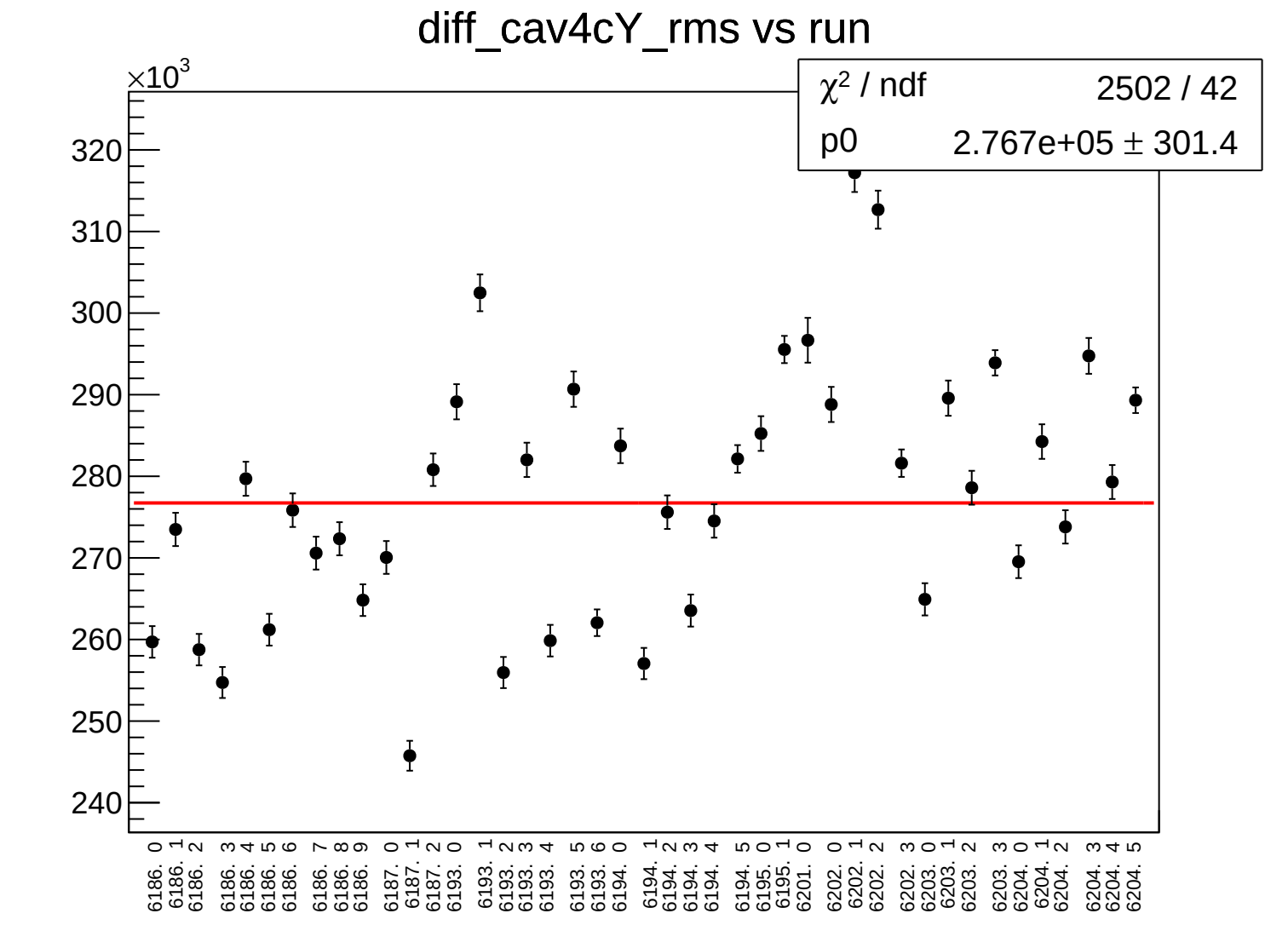

diff_cav4cX_mean vs run
χ² / ndf 47.02 / 42
p0 −227.4 ± 813.4
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −859.6
Std Dev 0
3
2
1
0
−1
−2

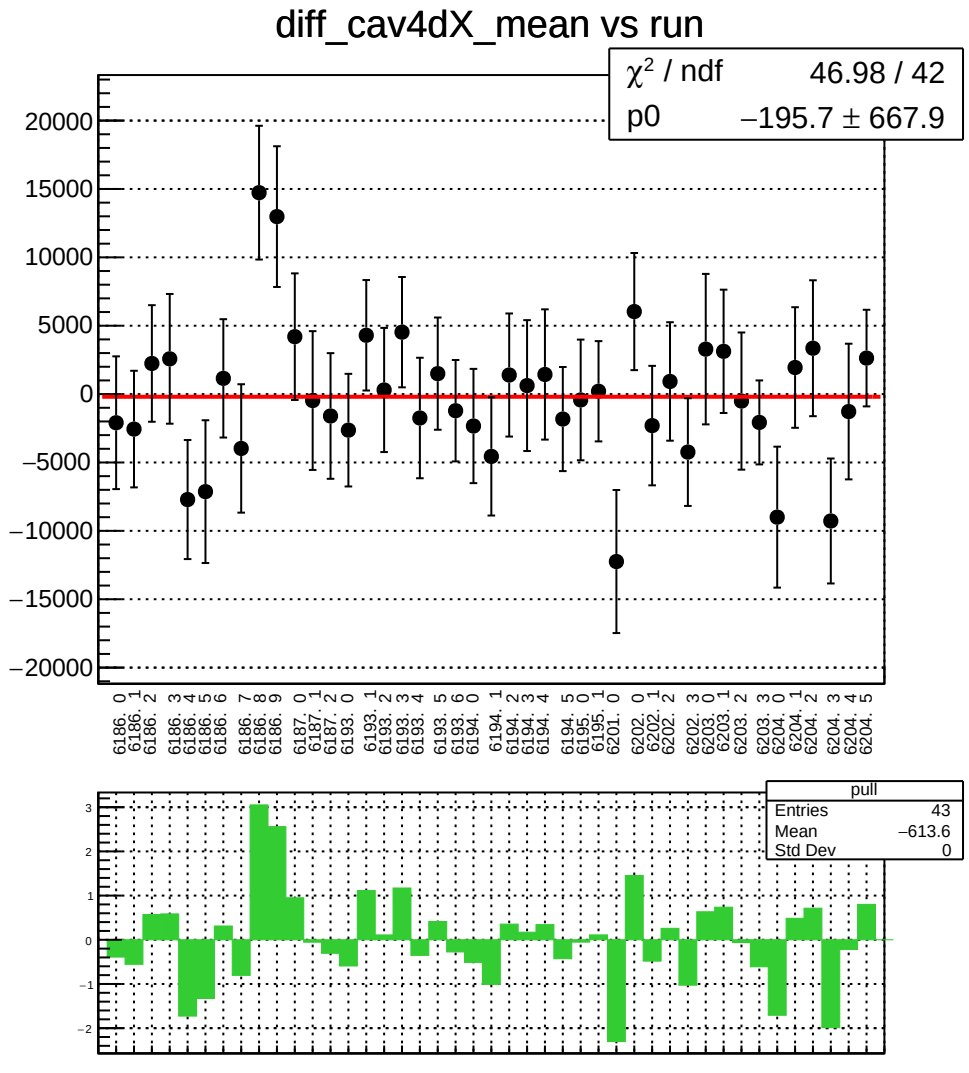

pull1D
Entries 43
Mean 0.001884
Std Dev 1.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

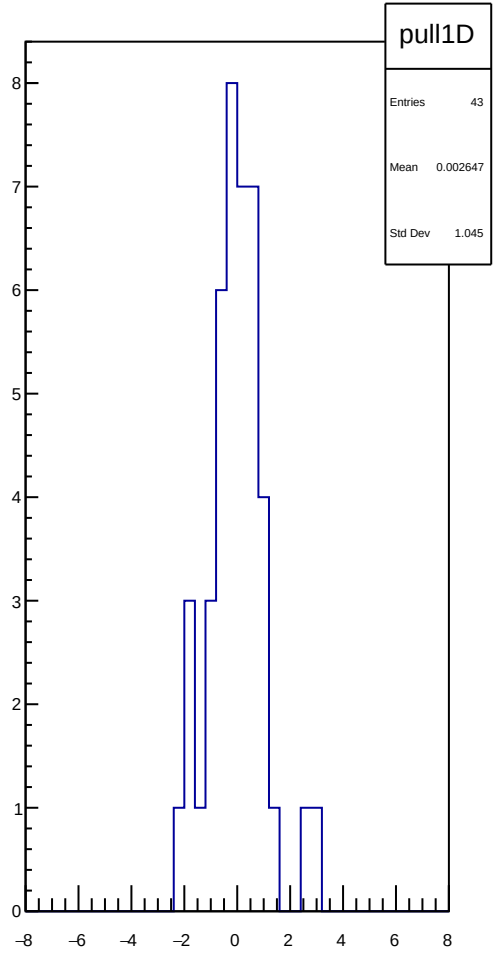

diff_cav4cX_rms vs run
×10^3
650
600
550
500
450
χ² / ndf 4671 / 42
p0 5.274e+05 ± 575.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

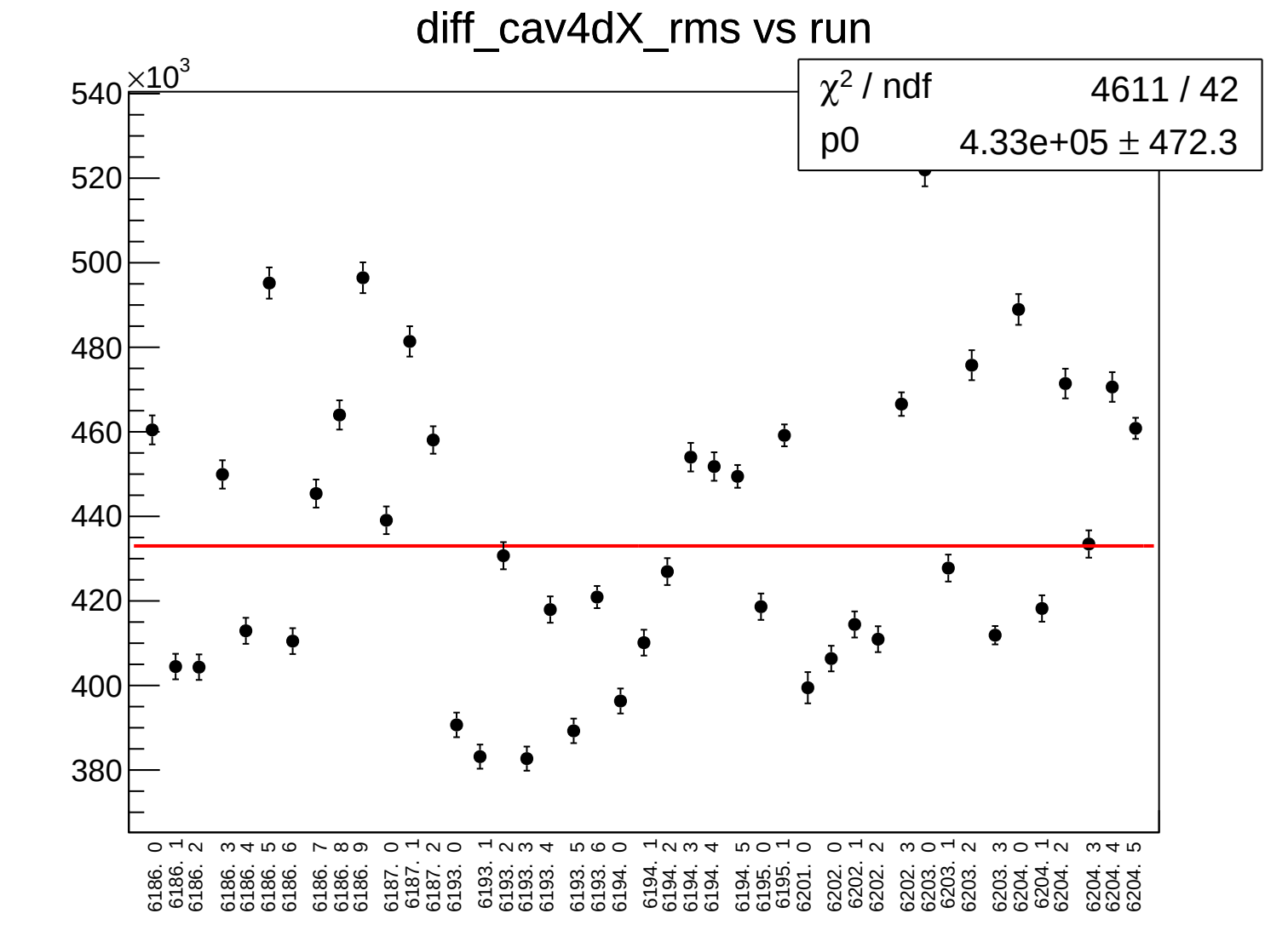

diff_cav4cY_mean vs run
χ² / ndf 57.34 / 42
p0 −486.9 ± 426.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −20.58
Std Dev 0
2
1
0
−1
−2

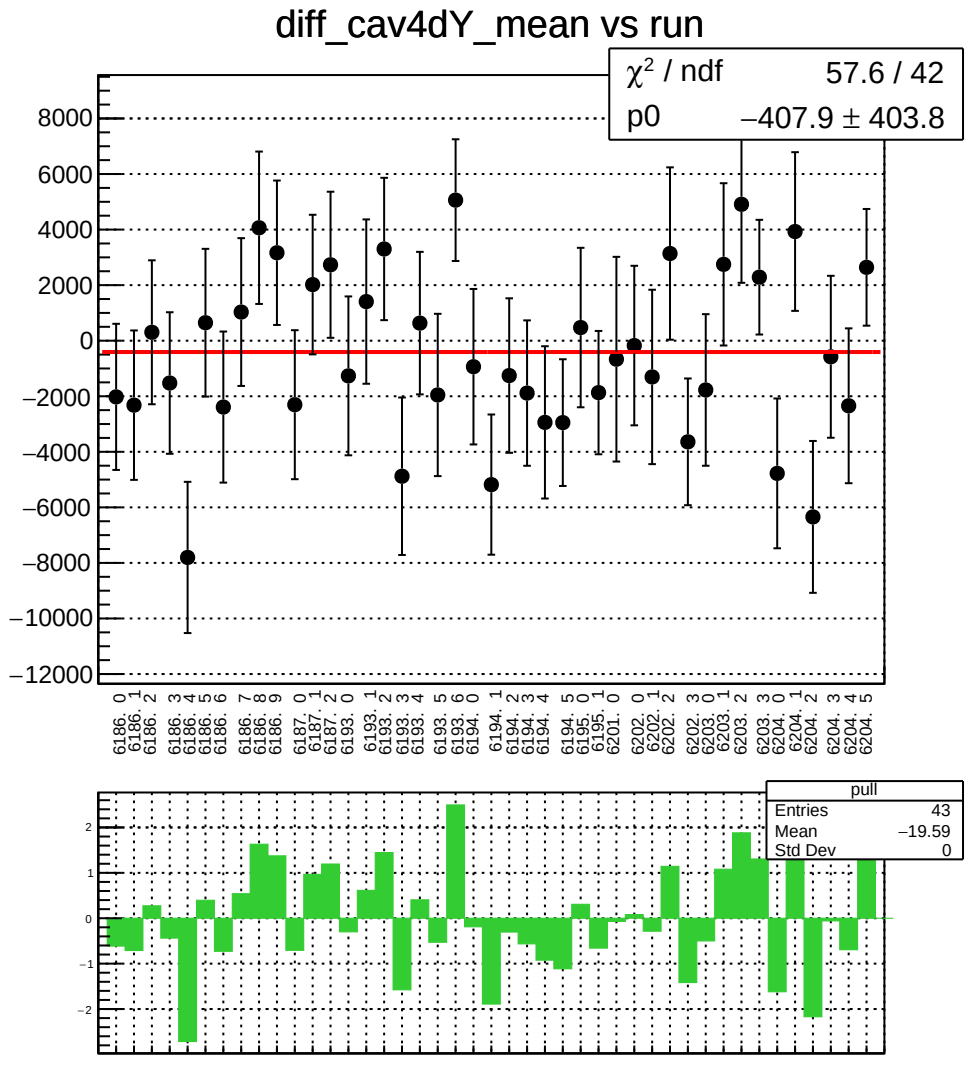

pull1D
Entries 43
Mean −0.01824
Std Dev 1.155
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

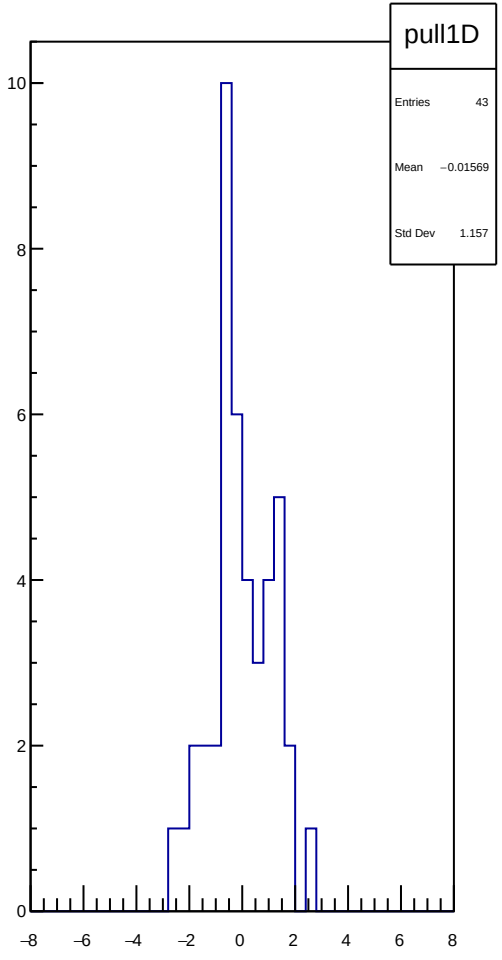

diff_cav4cY_rms vs run
×10^3
χ² / ndf 2502 / 42
p0 2.767e+05 ± 301.4
320
310
300
290
280
270
260
250
240
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

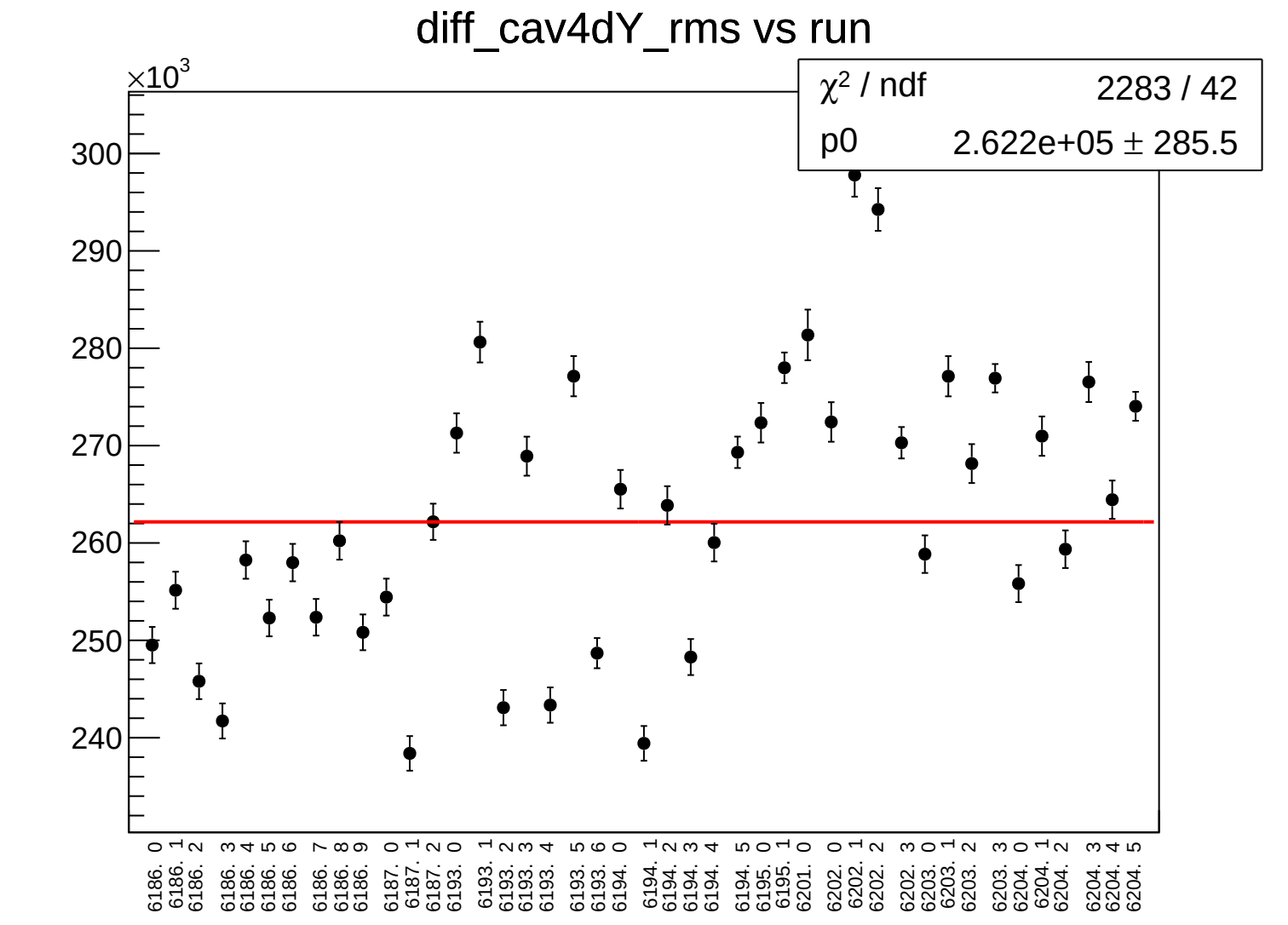

diff_cav4dX_mean vs run
χ² / ndf 46.98 / 42
p0 −195.7 ± 667.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −613.6
Std Dev 0
3
2
1
0
−1
−2

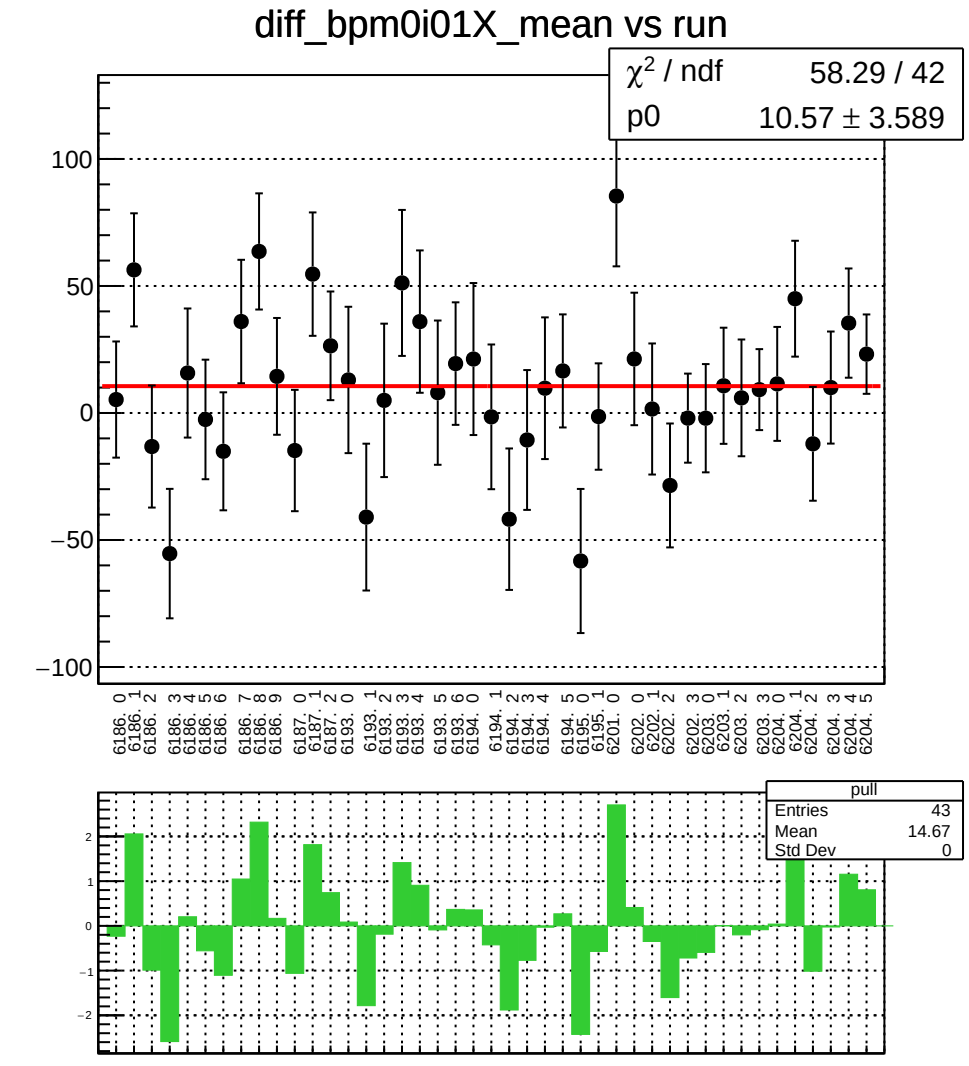

pull1D
Entries 43
Mean 0.002647
Std Dev 1.045
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

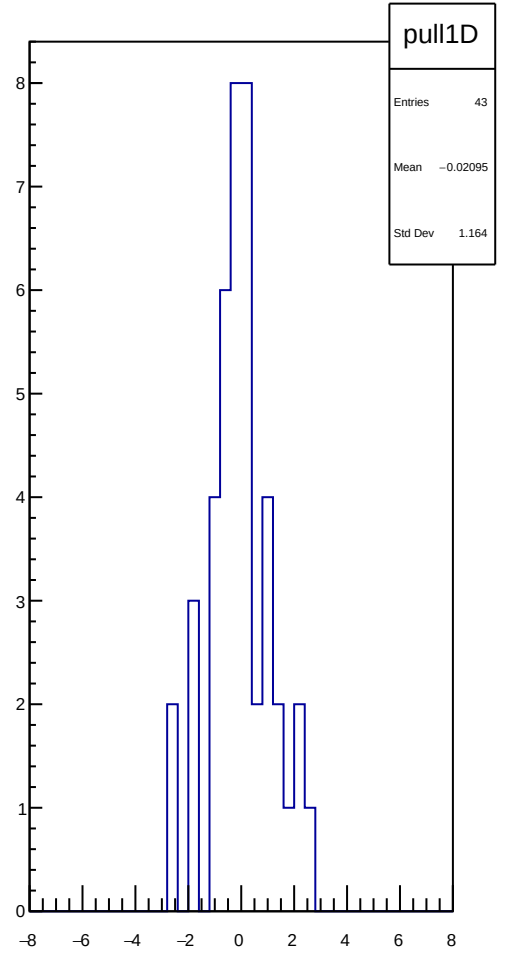

diff_cav4dX_rms vs run
χ^2 / ndf 4611 / 42
p0 4.33e+05 ± 472.3
×10^3
540
520
500
480
460
440
420
400
380
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

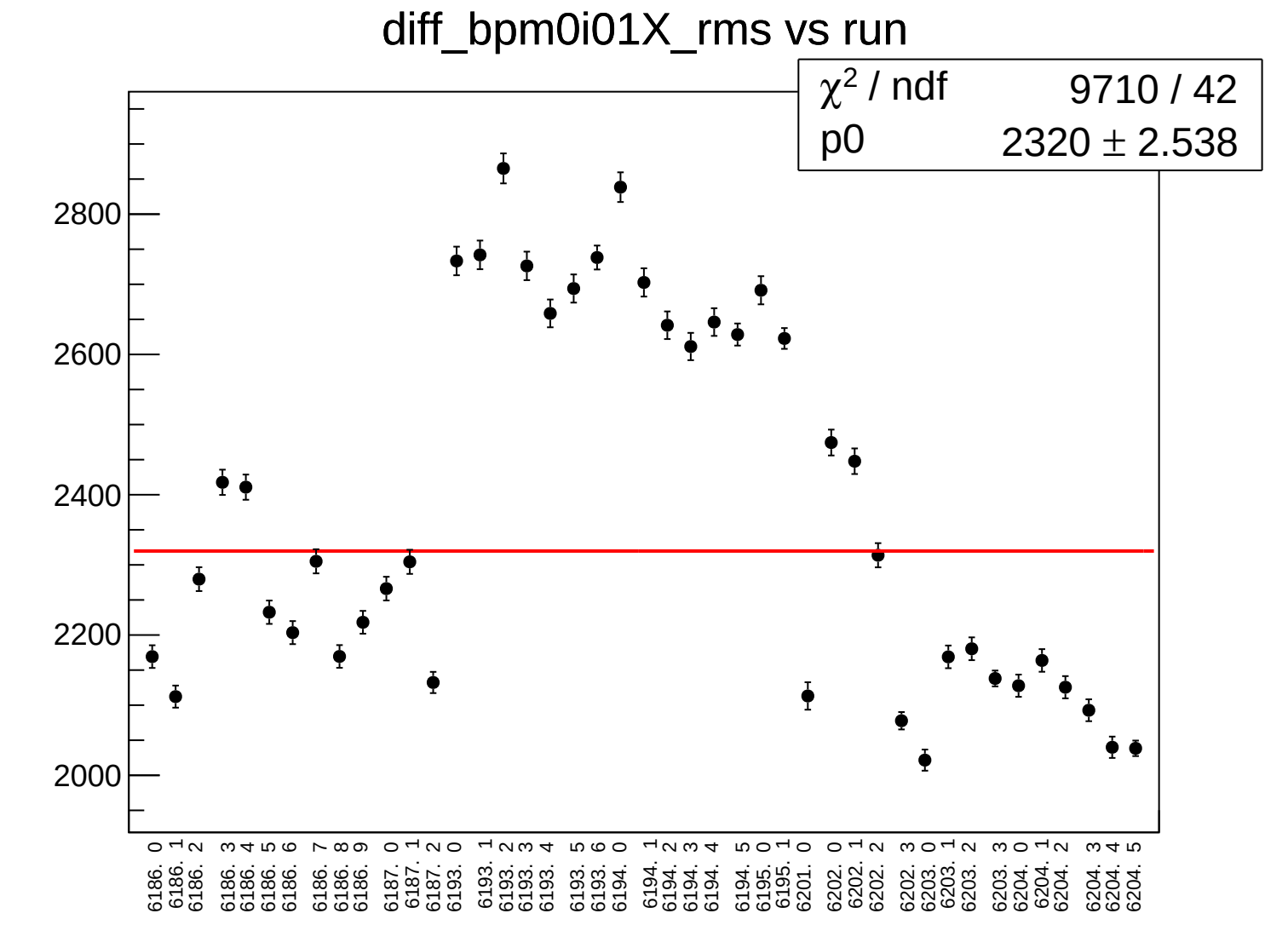

diff_cav4dY_mean vs run
χ² / ndf 57.6 / 42
p0 −407.9 ± 403.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −19.59
Std Dev 0
2
1
0
−1
−2

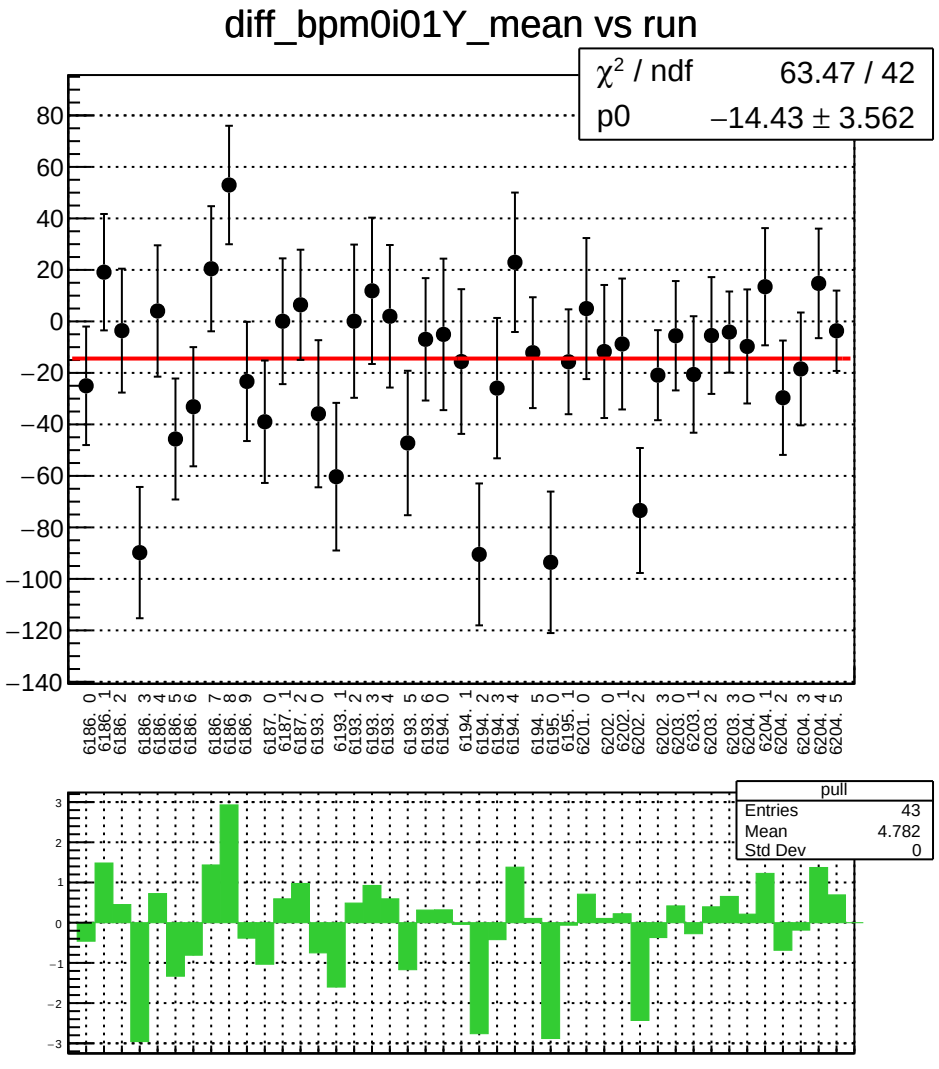

pull1D
Entries 43
Mean −0.01569
Std Dev 1.157
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

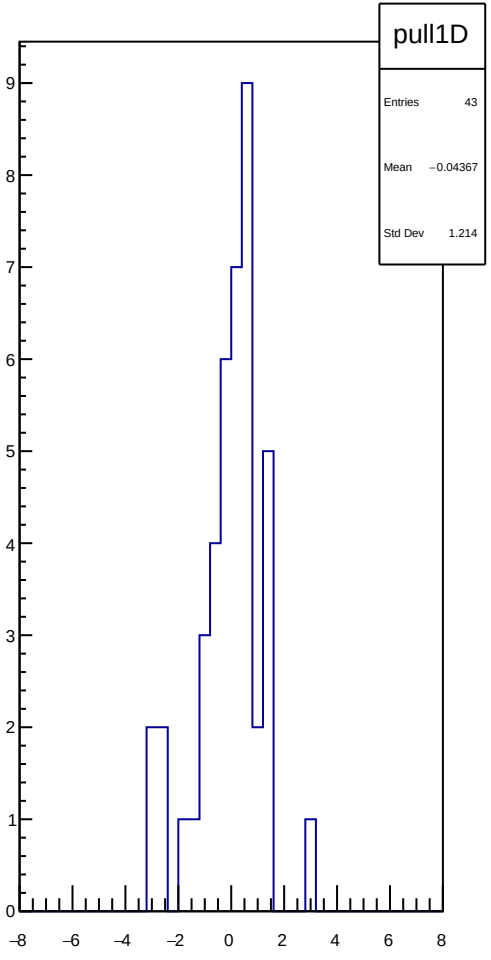

diff_cav4dY_rms vs run
×10^3
χ² / ndf 2283 / 42
p0 2.622e+05 ± 285.5
300
290
280
270
260
250
240
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

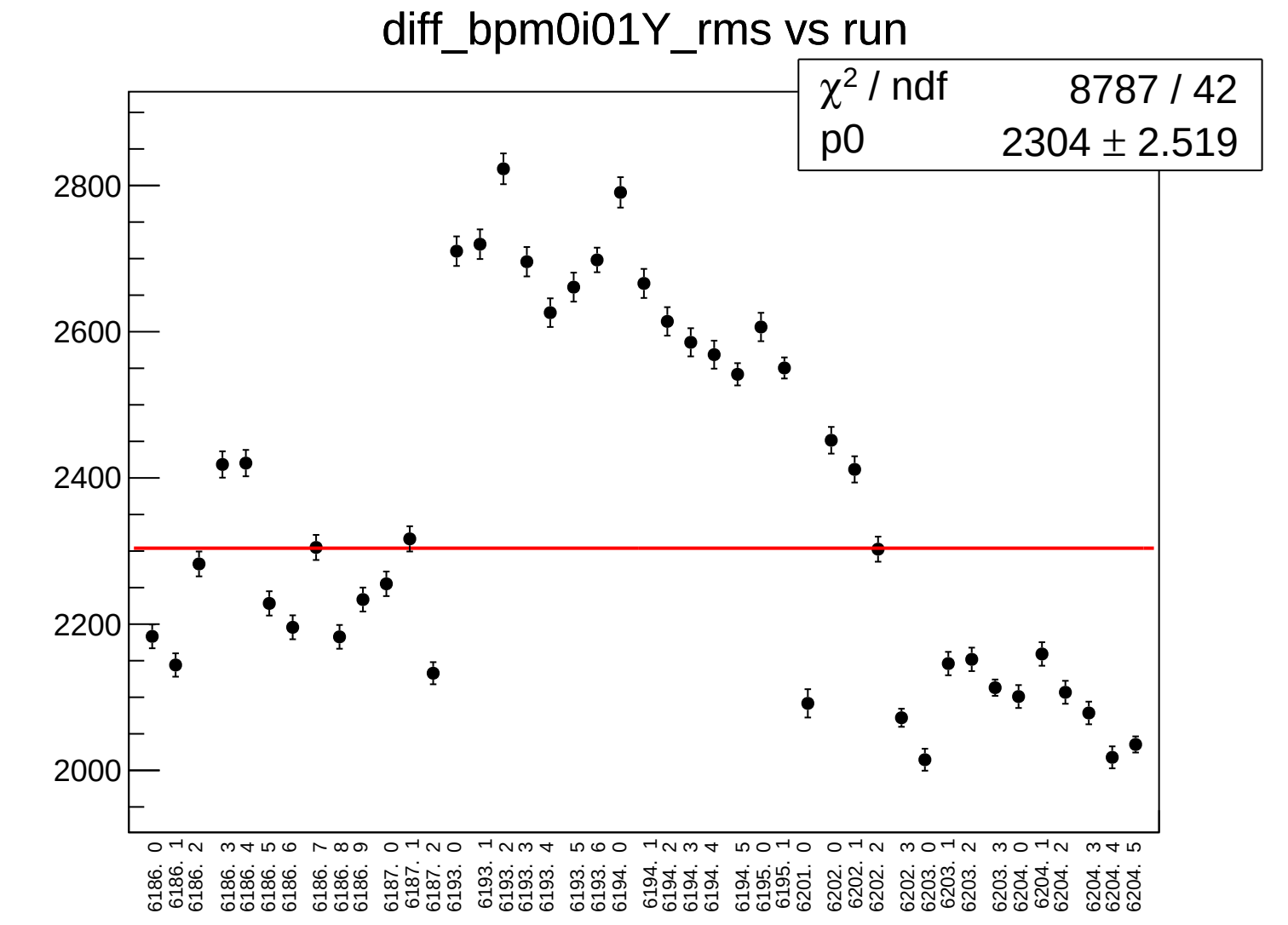

diff_bpm0i01X_mean vs run
χ² / ndf 58.29 / 42
p0 10.57 ± 3.589
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 14.67
Std Dev 0
2
1
0
−1
−2

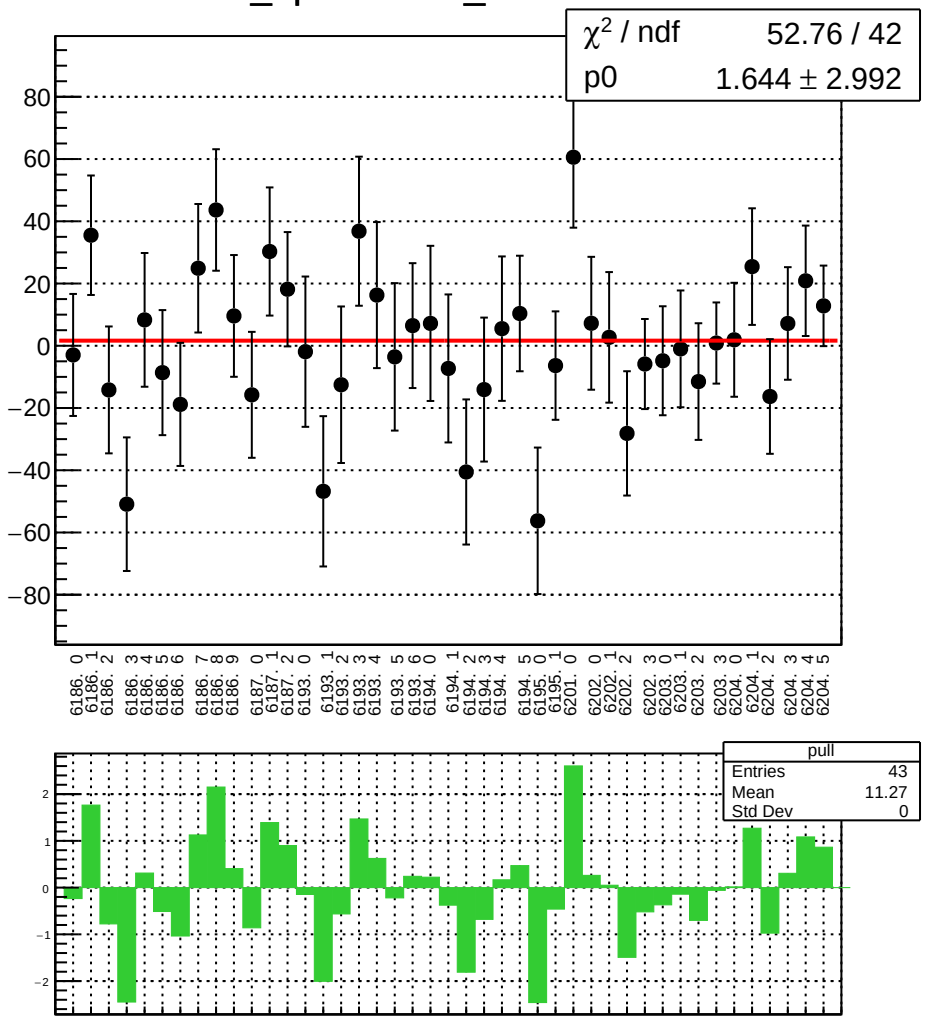

pull1D
Entries 43
Mean −0.02095
Std Dev 1.164
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

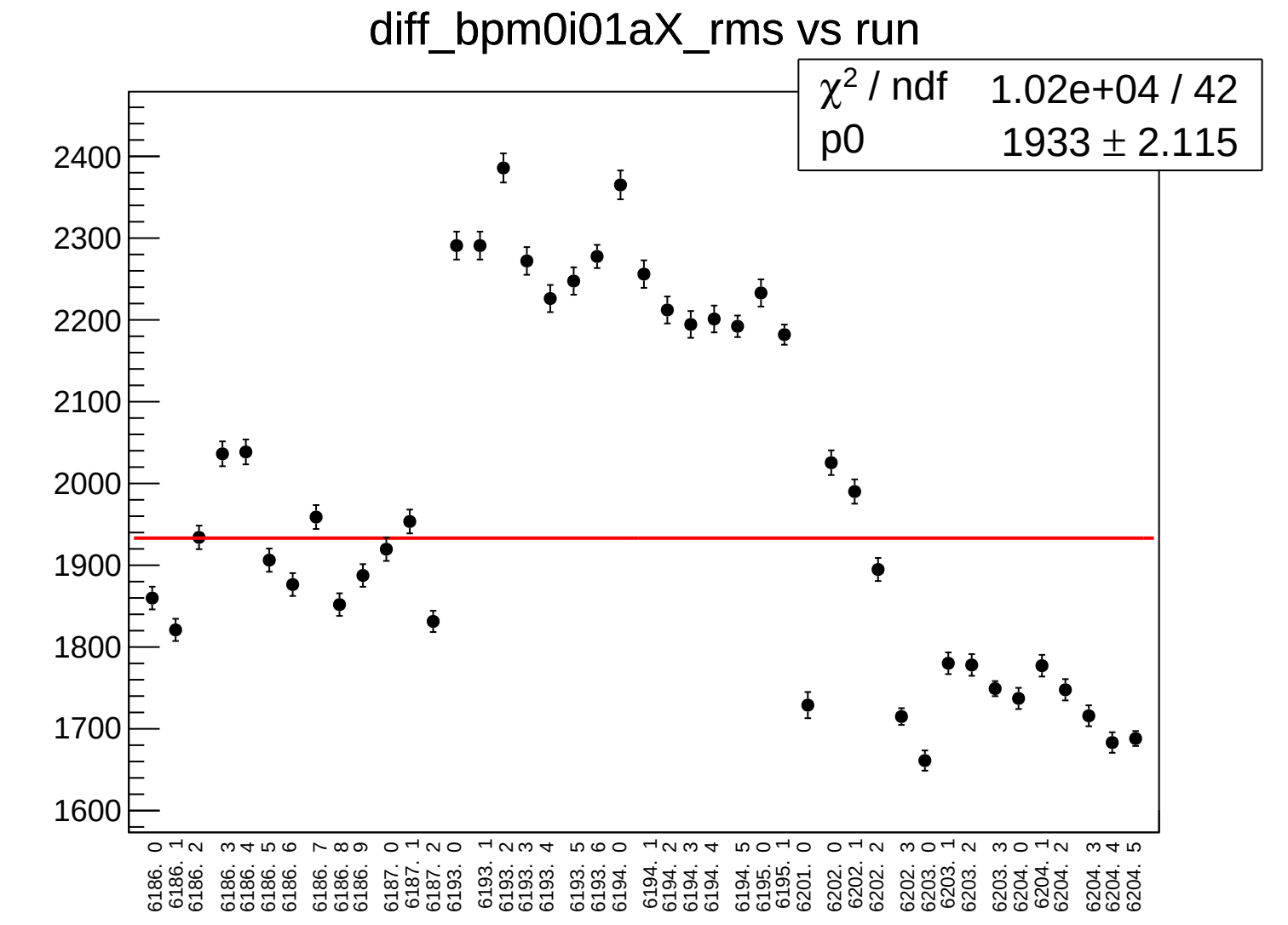

diff_bpm0i01X_rms vs run
χ² / ndf 9710 / 42
p0 2320 ± 2.538
2800
2600
2400
2200
2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

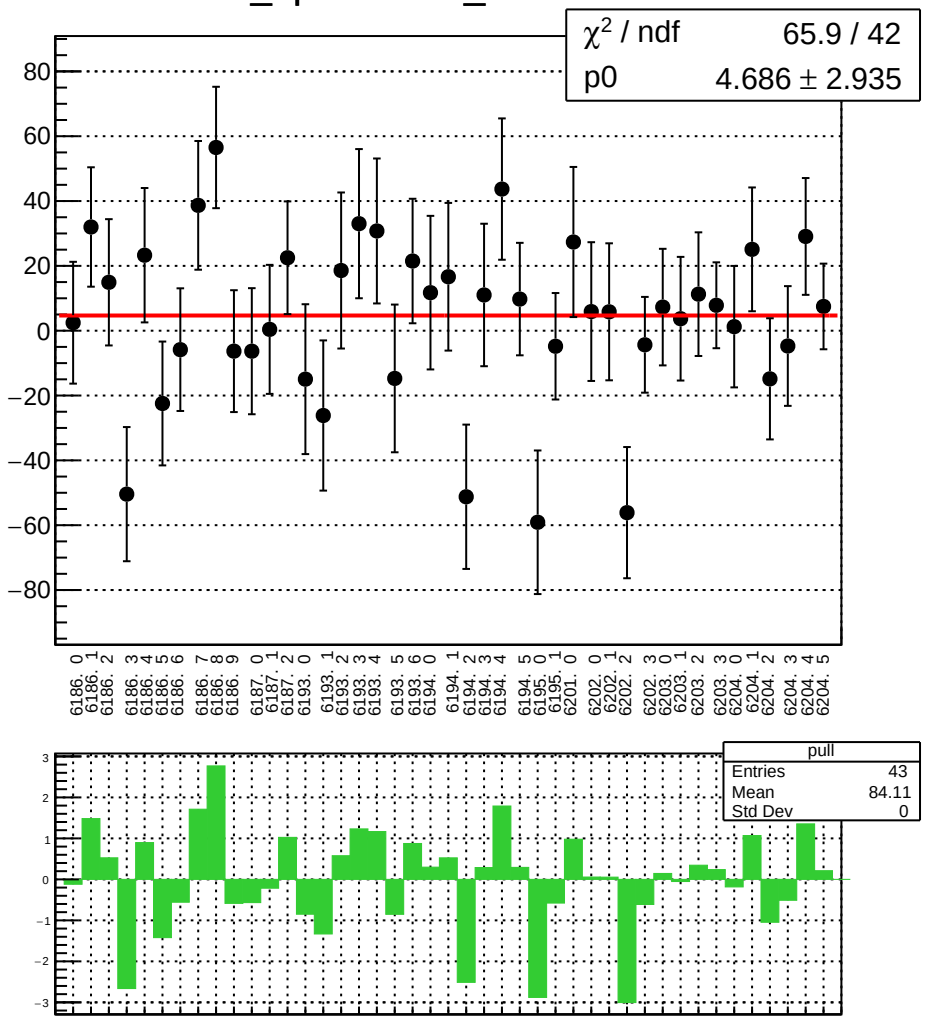

diff_bpm0i01Y_mean vs run
χ² / ndf 63.47 / 42
p0 −14.43 ± 3.562
pull
Entries 43
Mean 4.782
Std Dev 0

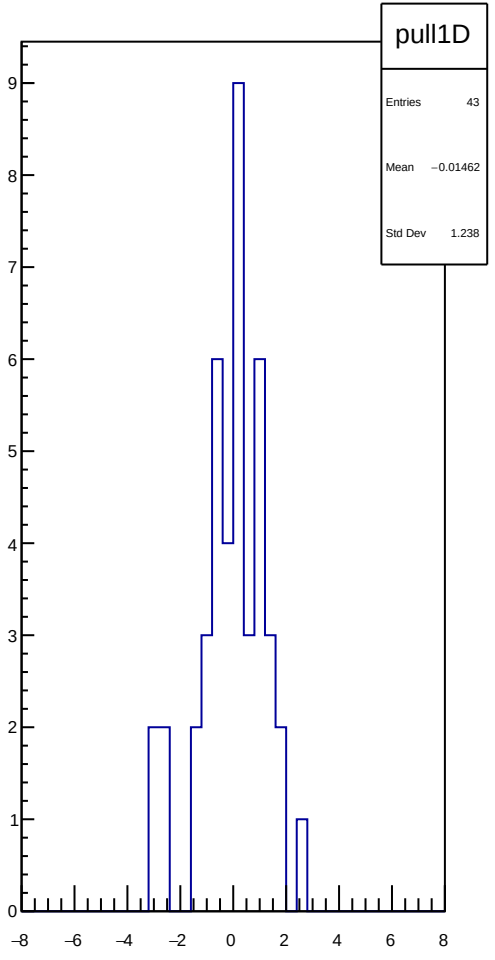

pull1D
Entries 43
Mean −0.04367
Std Dev 1.214

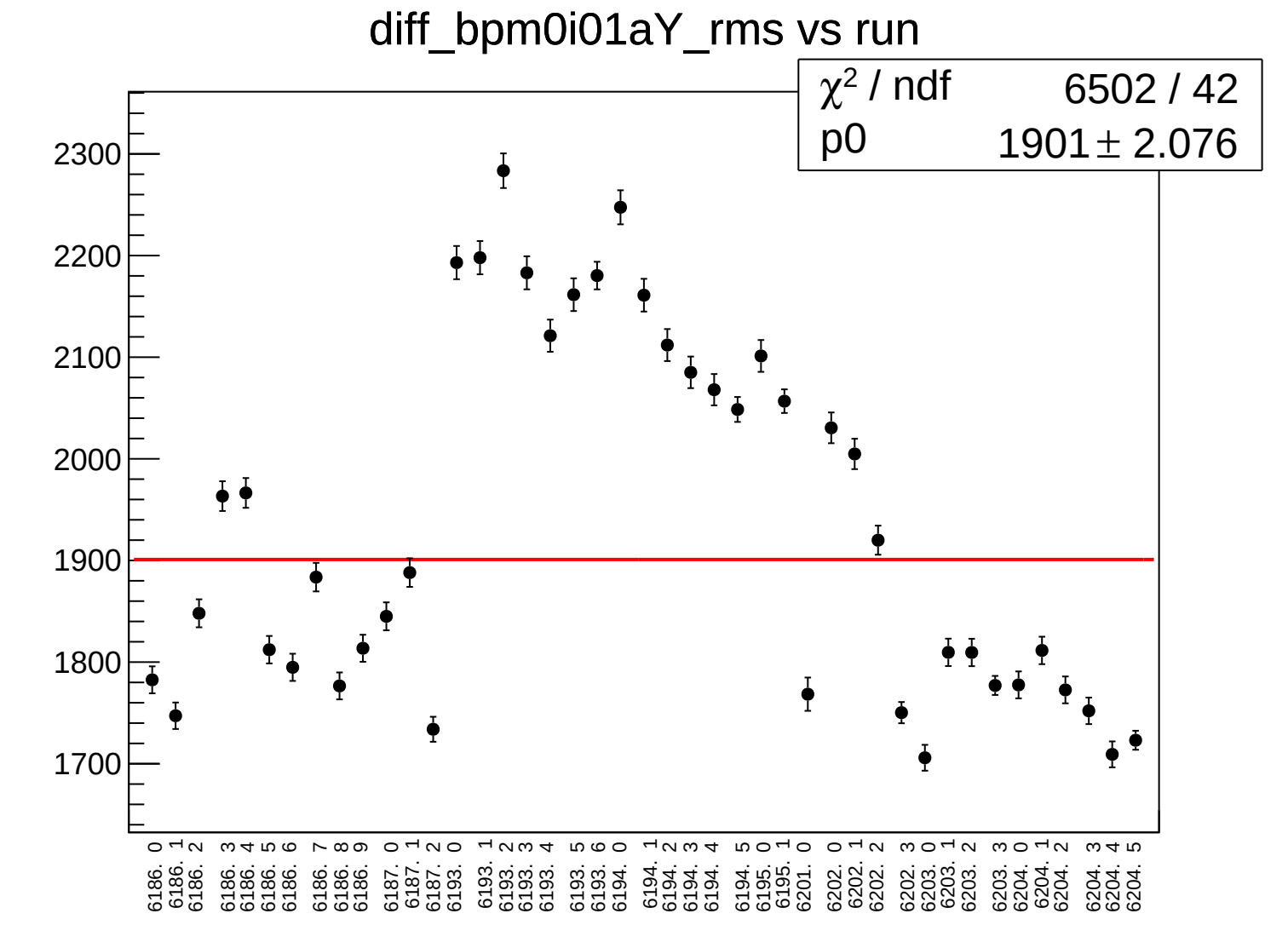

diff_bpm0i01Y_rms vs run
χ² / ndf 8787 / 42
p0 2304 ± 2.519
2800
2600
2400
2200
2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

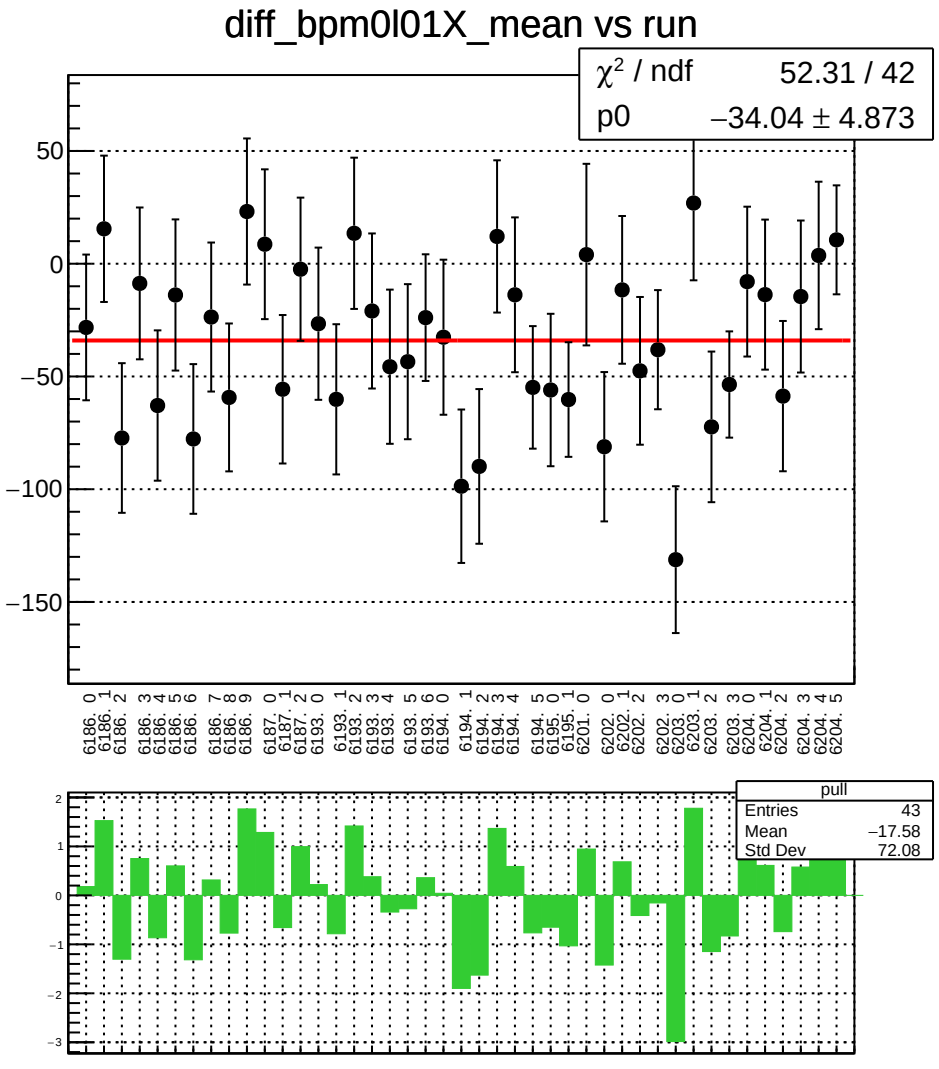

diff_bpm0i01aX_mean vs run
χ² / ndf 52.76 / 42
p0 1.644 ± 2.992
pull
Entries 43
Mean 11.27
Std Dev 0
pull1D
Entries 43
Mean −0.0266
Std Dev 1.107

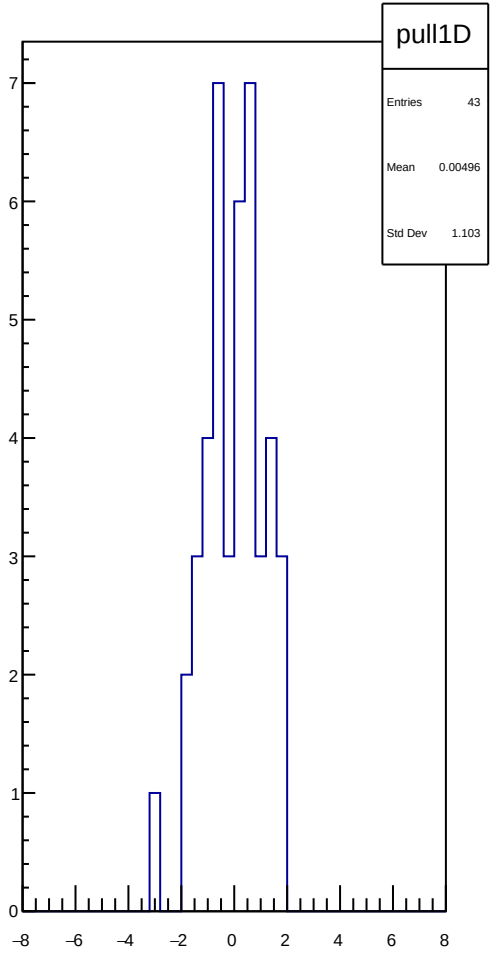

diff_bpm0i01aX_rms vs run
χ² / ndf 1.02e+04 / 42
p0 1933 ± 2.115
2400
2300
2200
2100
2000
1900
1800
1700
1600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

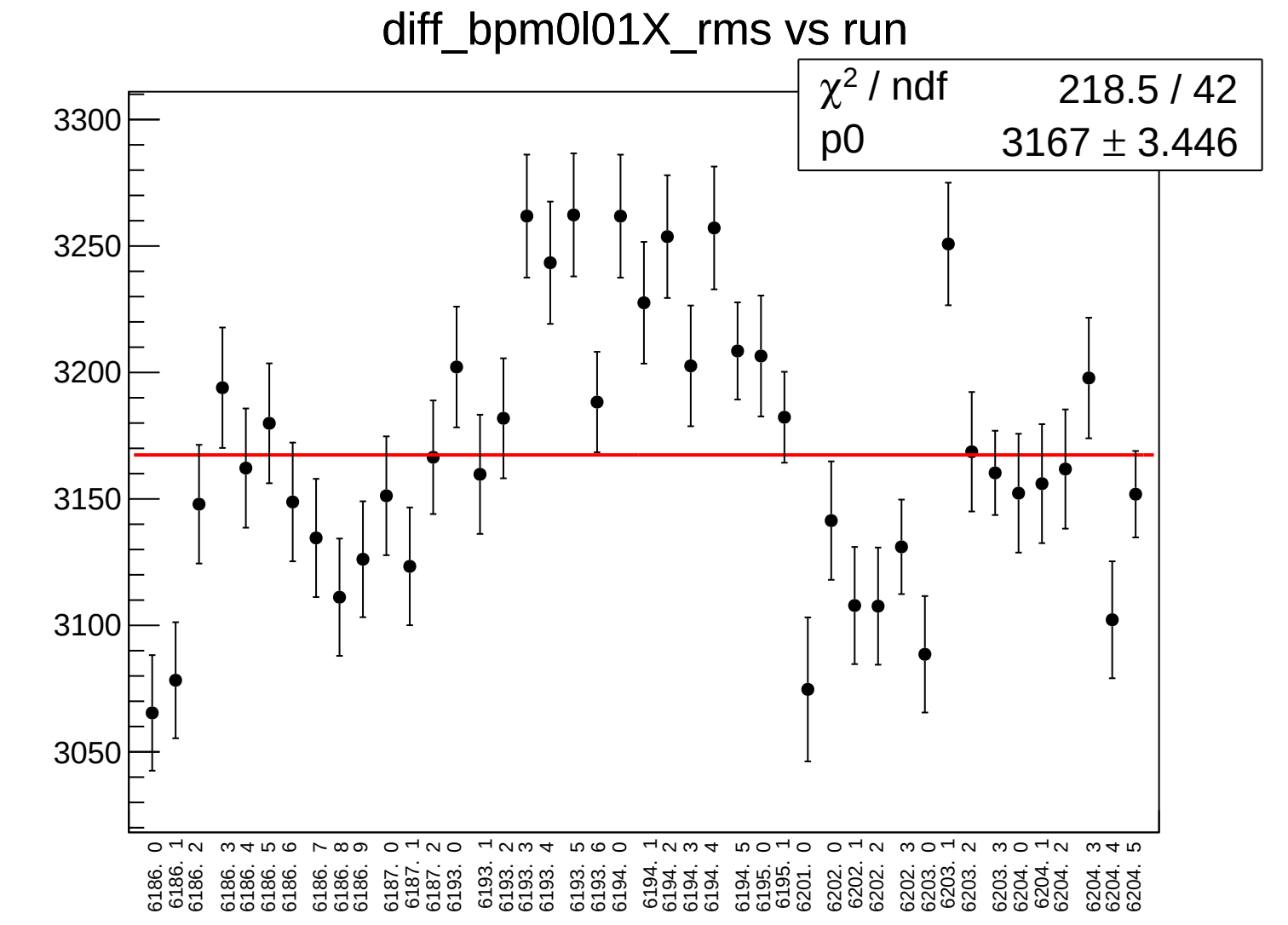

diff_bpm0i01aY_mean vs run
χ² / ndf 65.9 / 42
p0 4.686 ± 2.935
pull
Entries 43
Mean 84.11
Std Dev 0

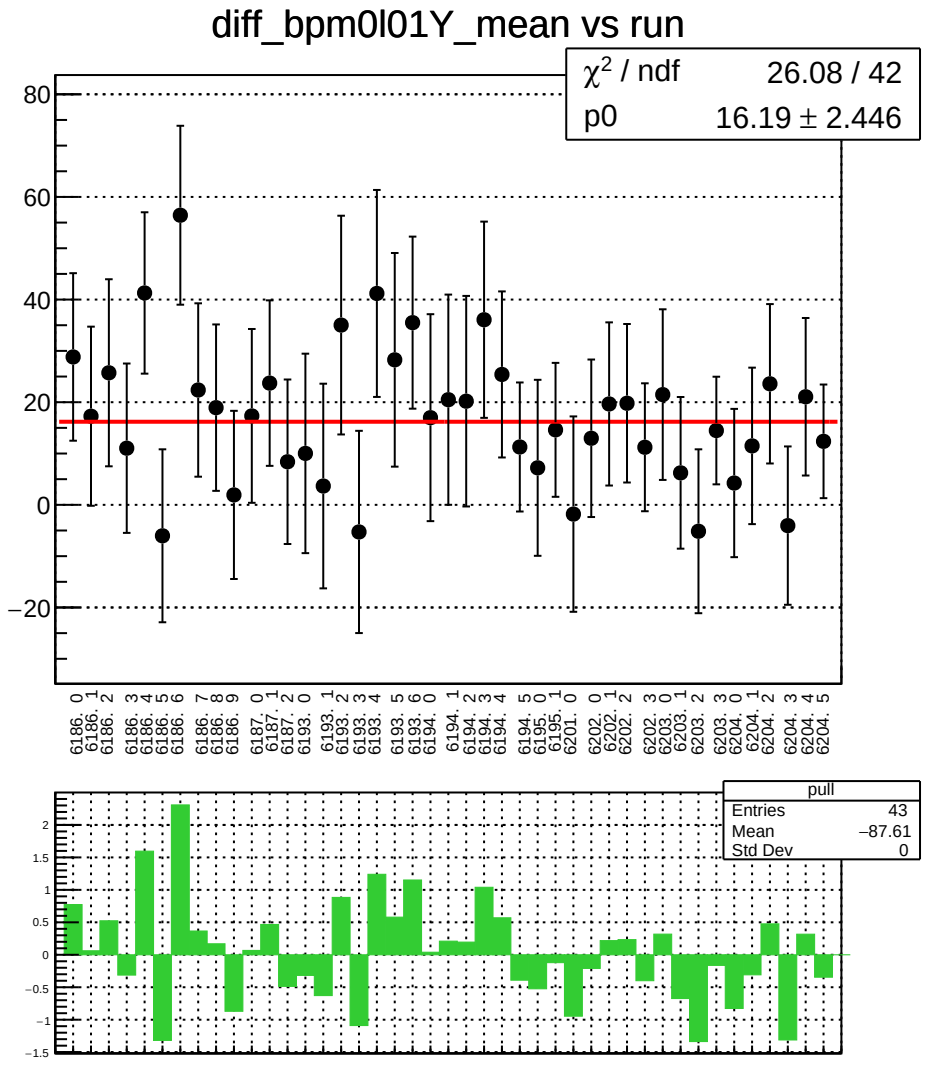

pull1D
Entries 43
Mean −0.01462
Std Dev 1.238

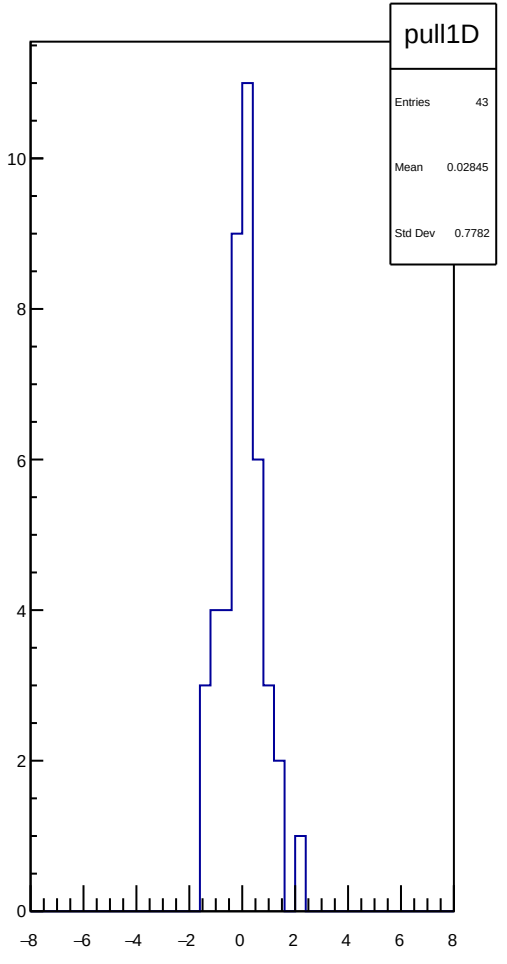

diff_bpm0i01aY_rms vs run
χ² / ndf 6502 / 42
p0 1901 ± 2.076
2300
2200
2100
2000
1900
1800
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

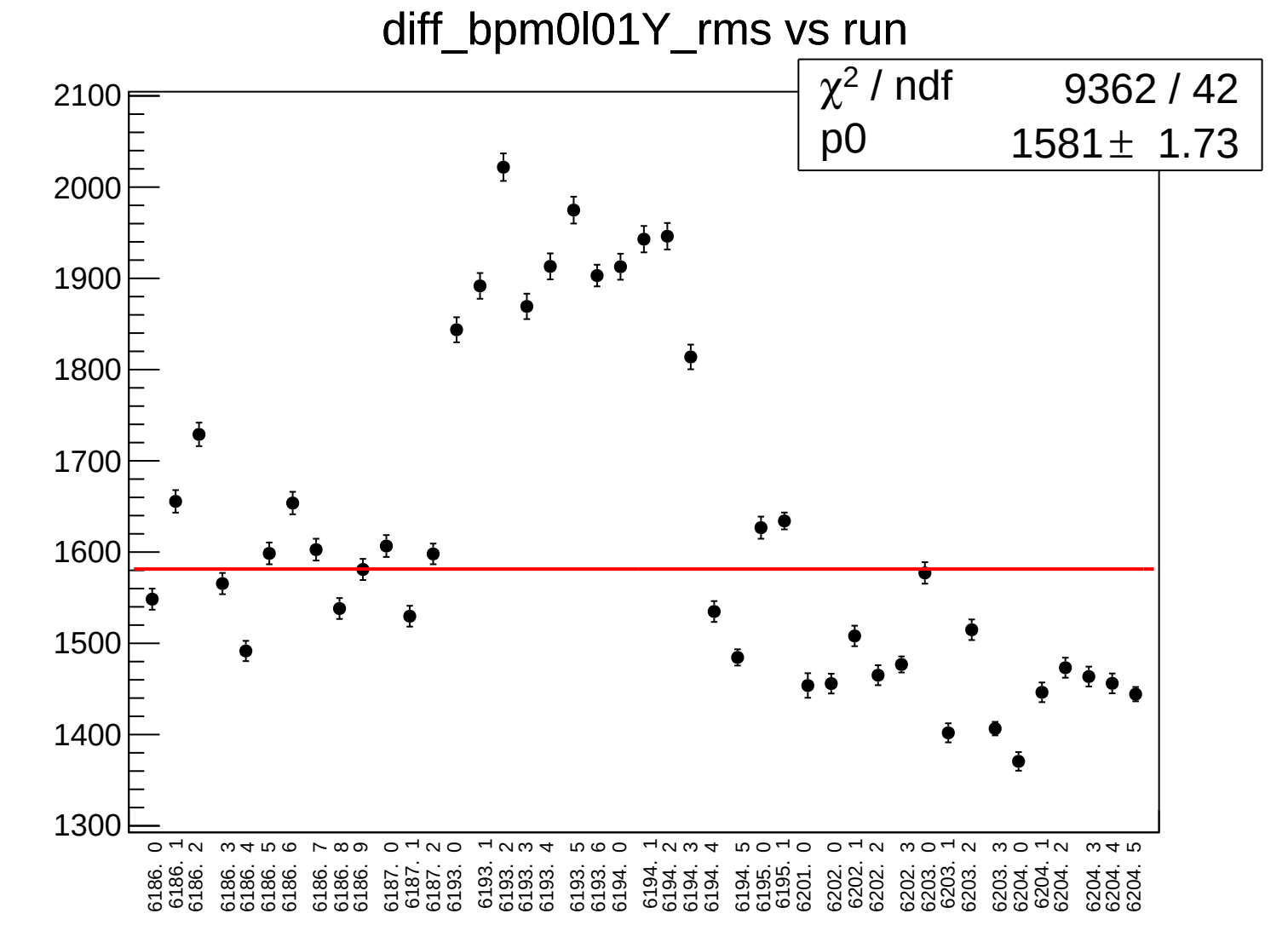

diff_bpm0l01X_mean vs run
χ² / ndf 52.31 / 42
p0 −34.04 ± 4.873
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −17.58
Std Dev 72.08
2
1
0
−1
−2
−3

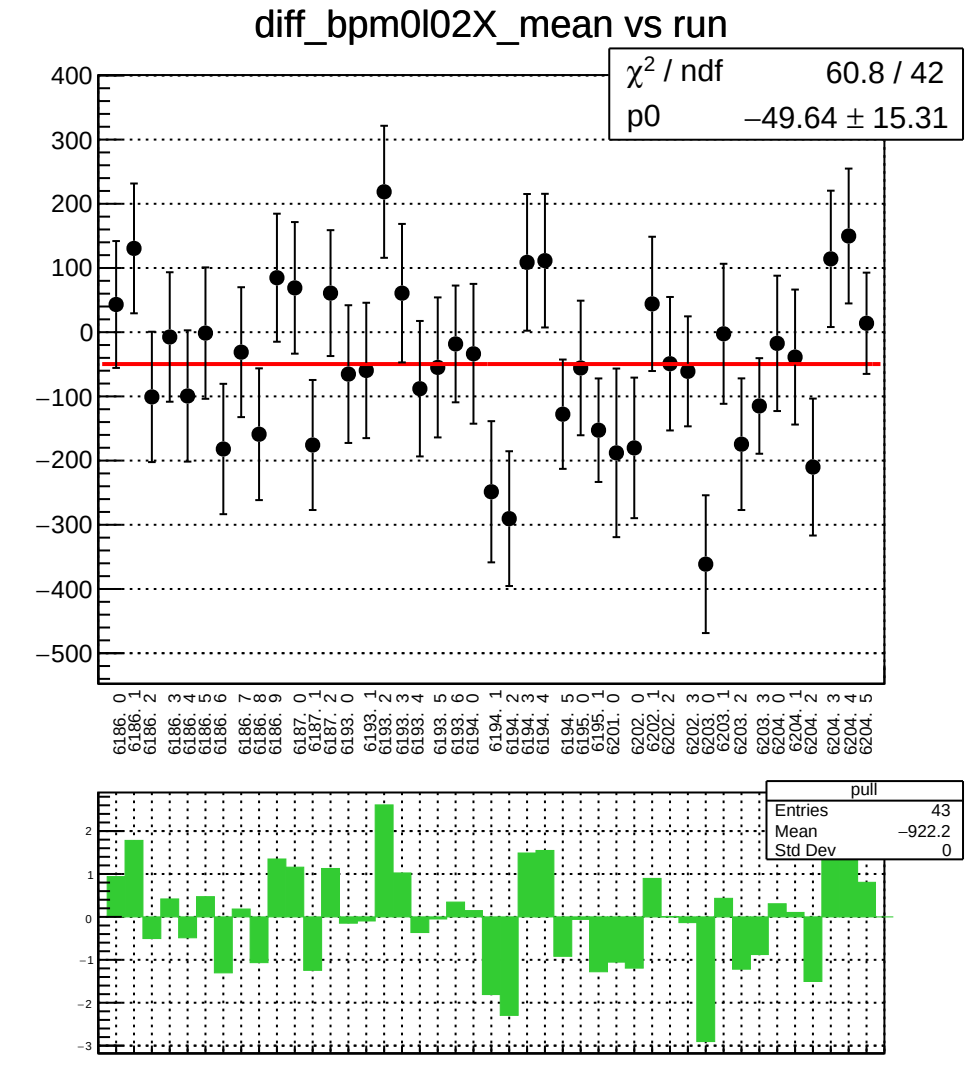

pull1D
Entries 43
Mean 0.00496
Std Dev 1.103
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

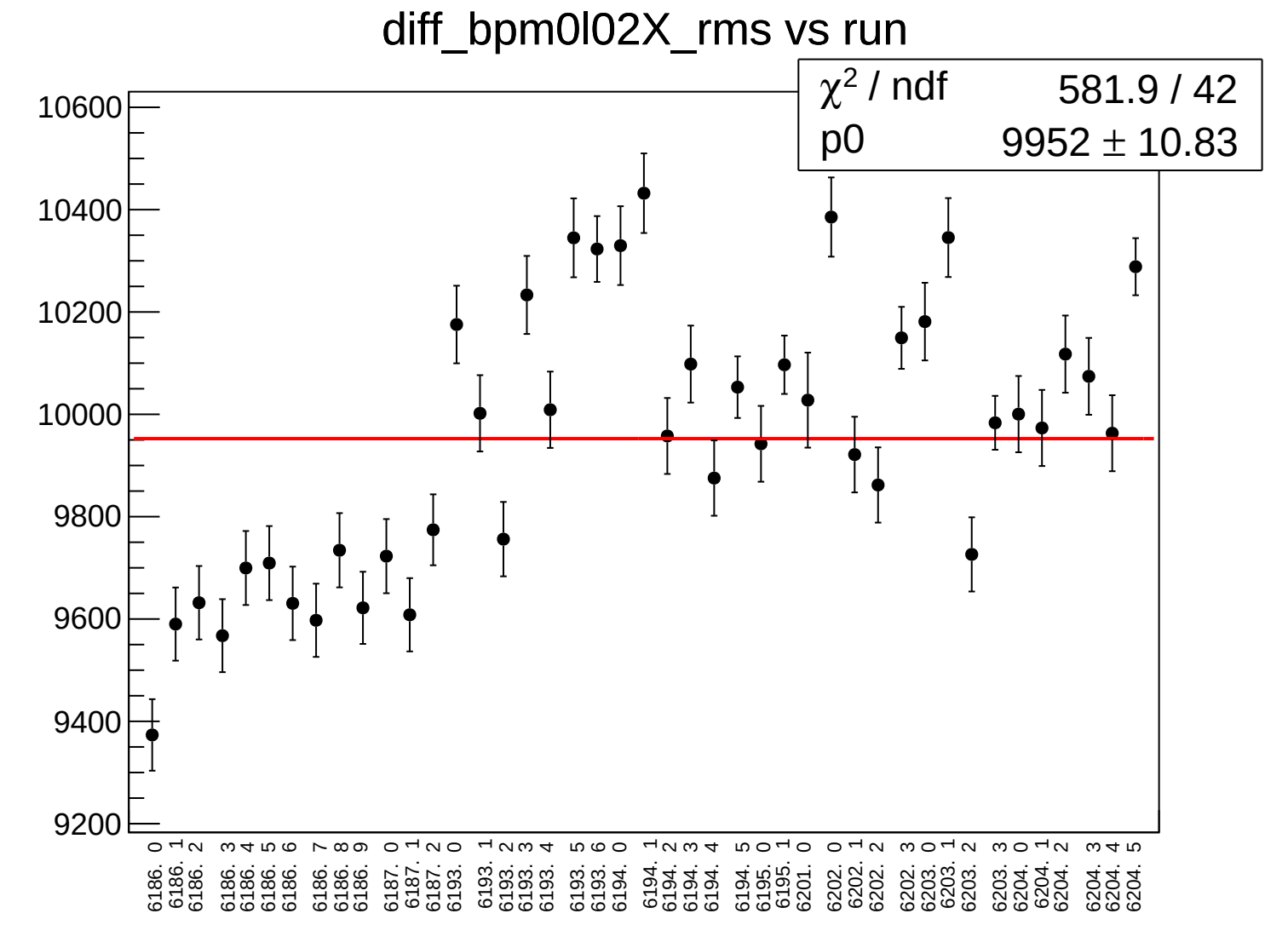

diff_bpm0l01X_rms vs run
χ² / ndf 218.5 / 42
p0 3167 ± 3.446
3300
3250
3200
3150
3100
3050
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

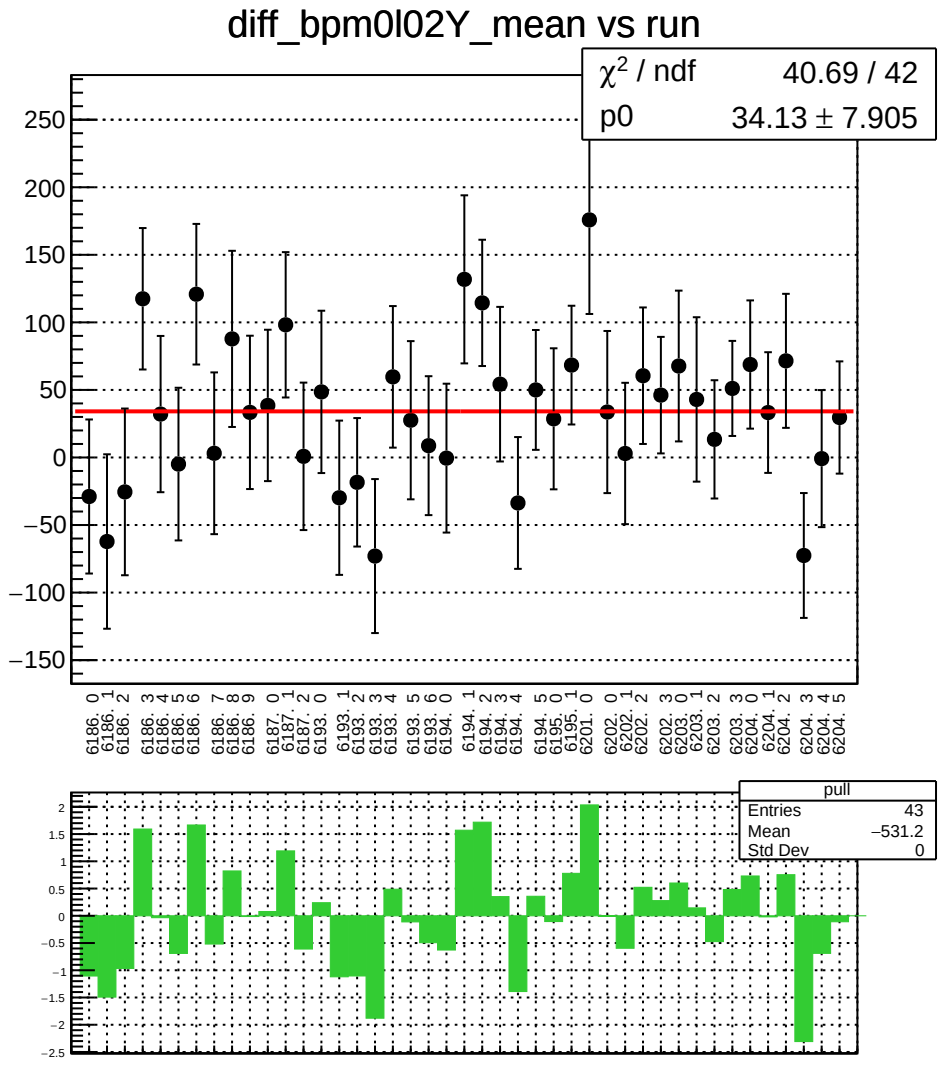

diff_bpm0l01Y_mean vs run
χ² / ndf 26.08 / 42
p0 16.19 ± 2.446
80
60
40
20
0
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −87.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

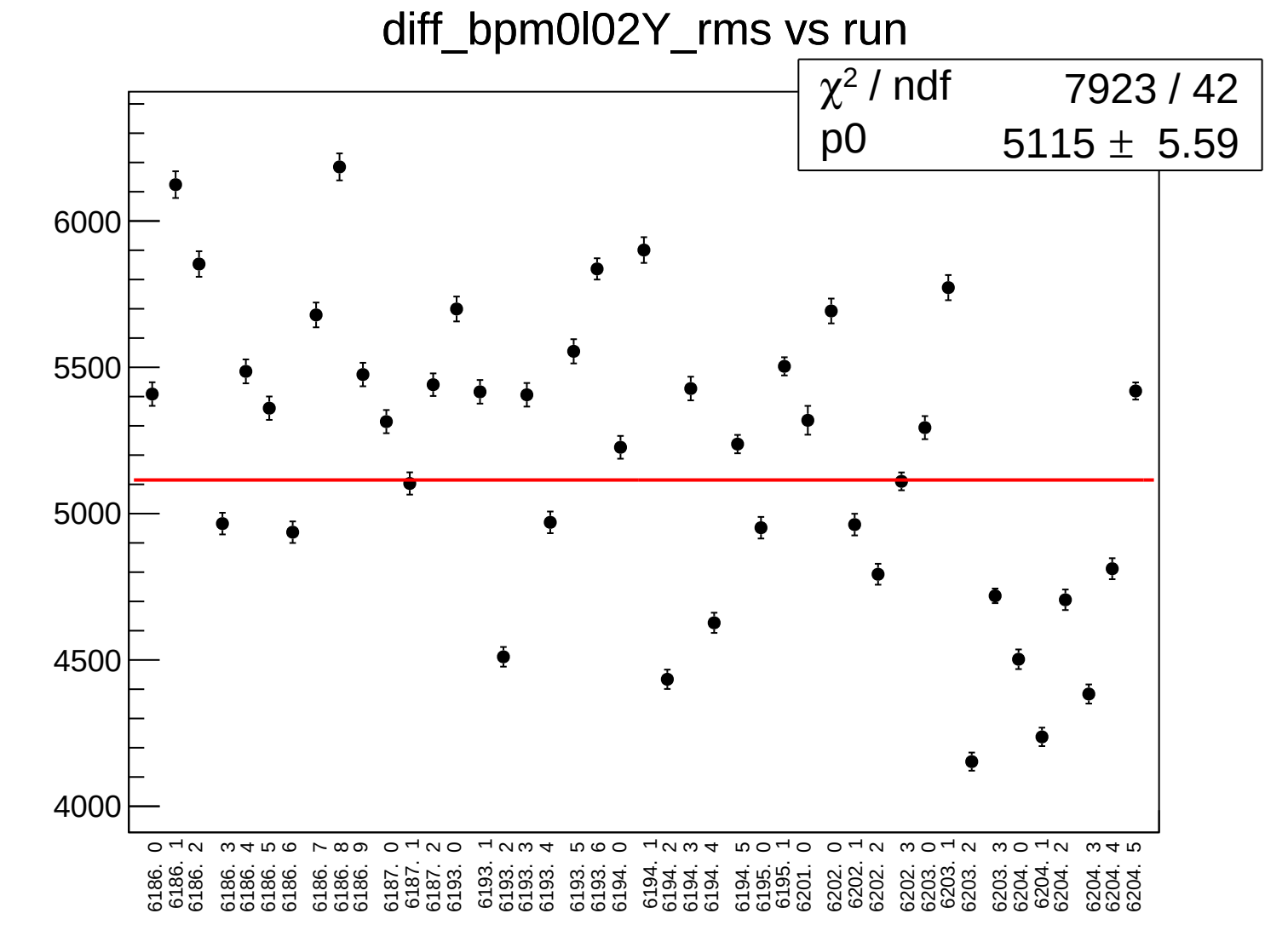

pull1D
Entries 43
Mean 0.02845
Std Dev 0.7782
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

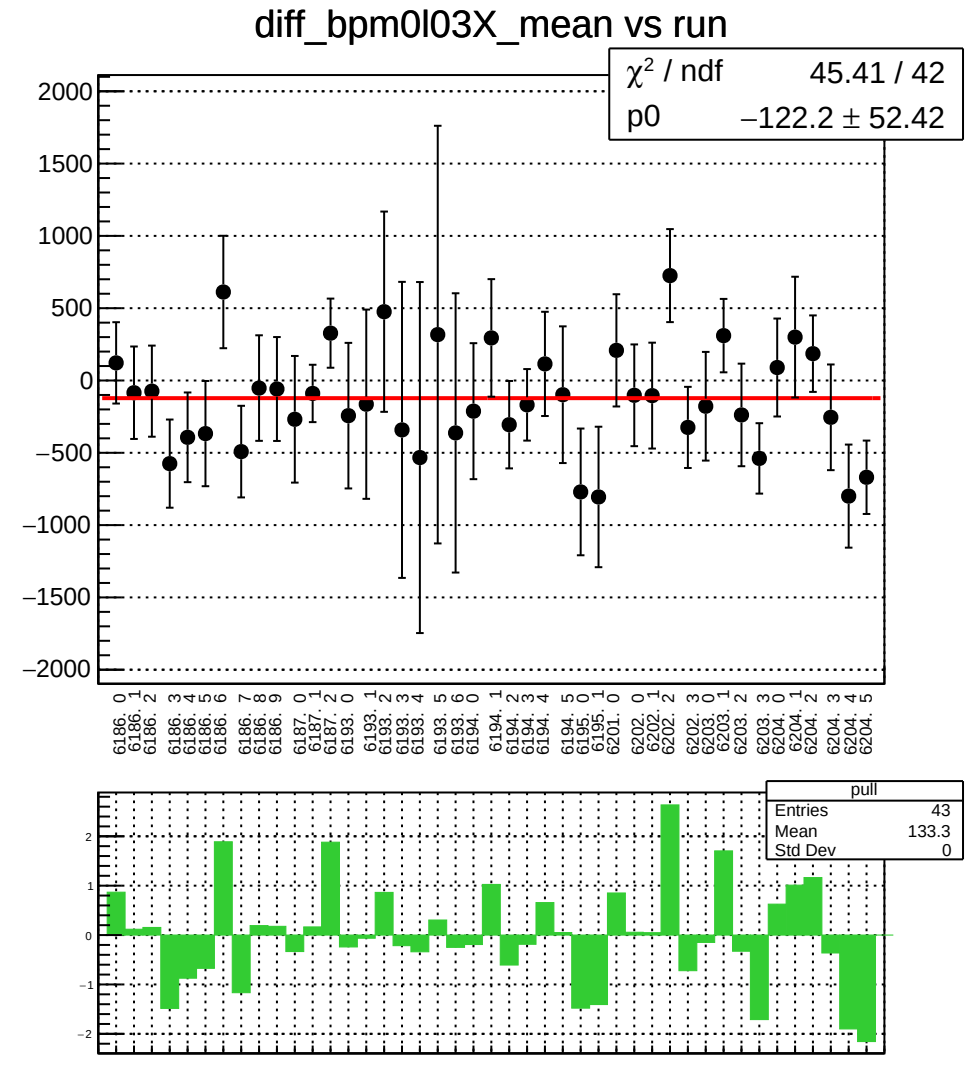

diff_bpm0l01Y_rms vs run
χ² / ndf 9362 / 42
p0 1581 ± 1.73
2100
2000
1900
1800
1700
1600
1500
1400
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

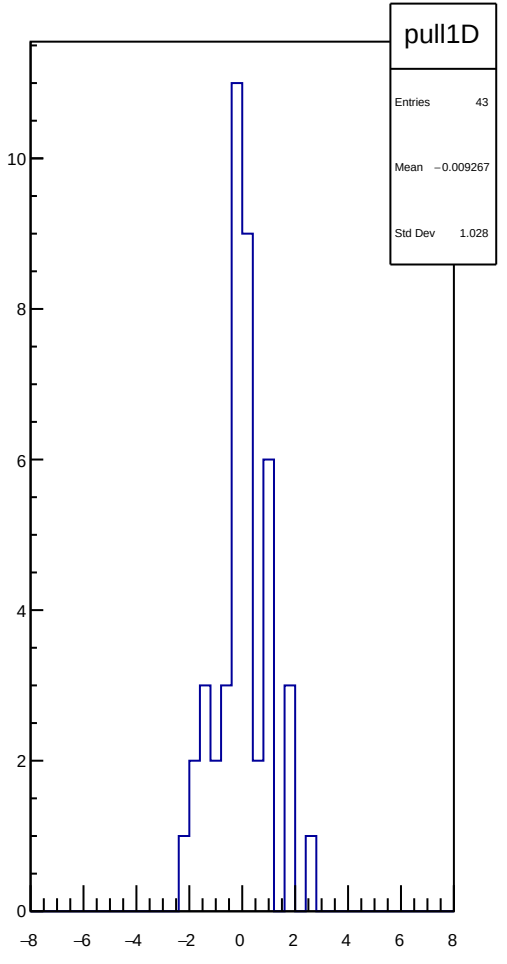

diff_bpm0l02X_mean vs run
χ² / ndf 60.8 / 42
p0 −49.64 ± 15.31
pull
Entries 43
Mean −922.2
Std Dev 0
pull1D
Entries 43
Mean 0.001941
Std Dev 1.189

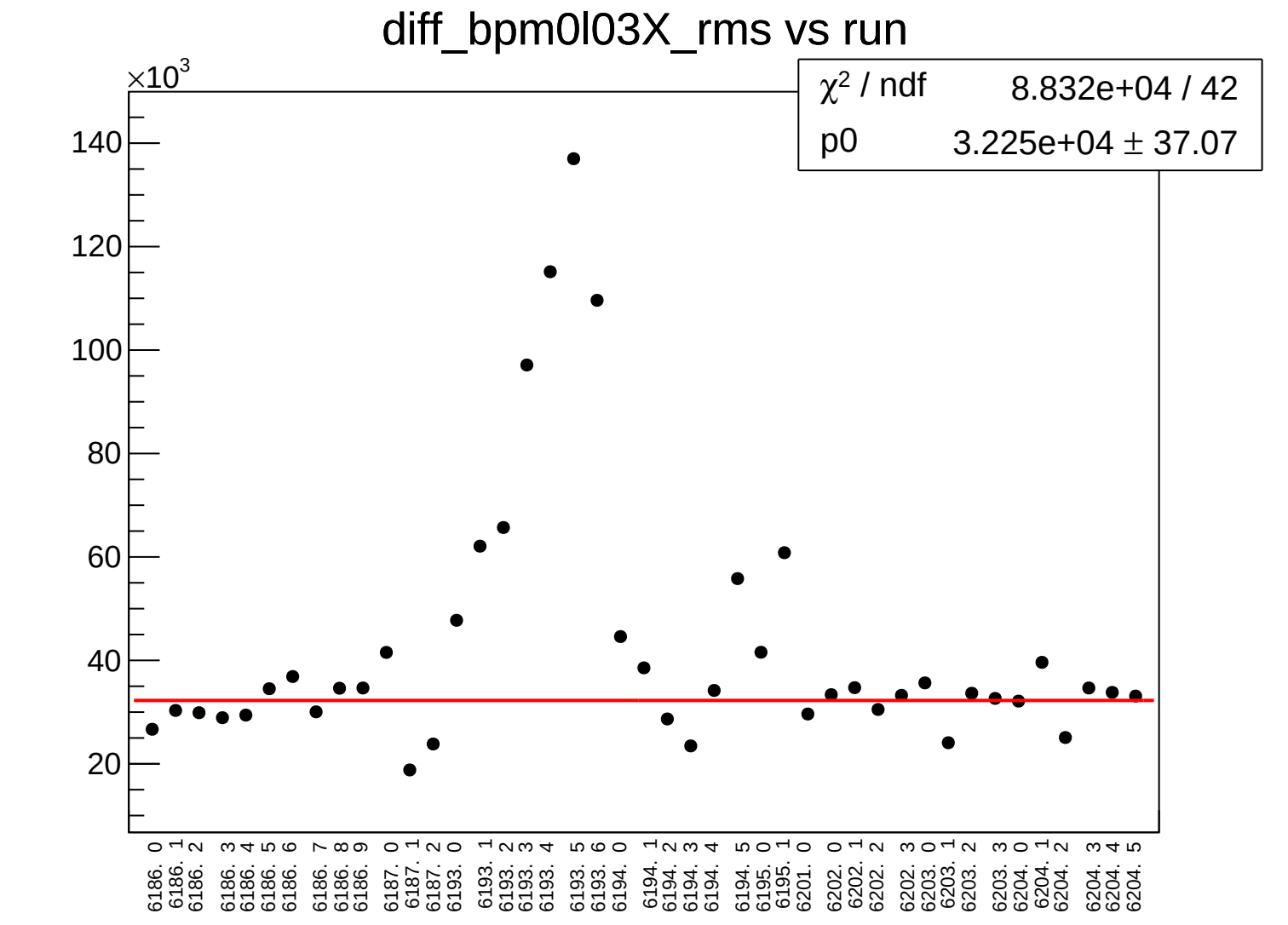

diff_bpm0l02X_rms vs run
χ² / ndf 581.9 / 42
p0 9952 ± 10.83
10600
10400
10200
10000
9800
9600
9400
9200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

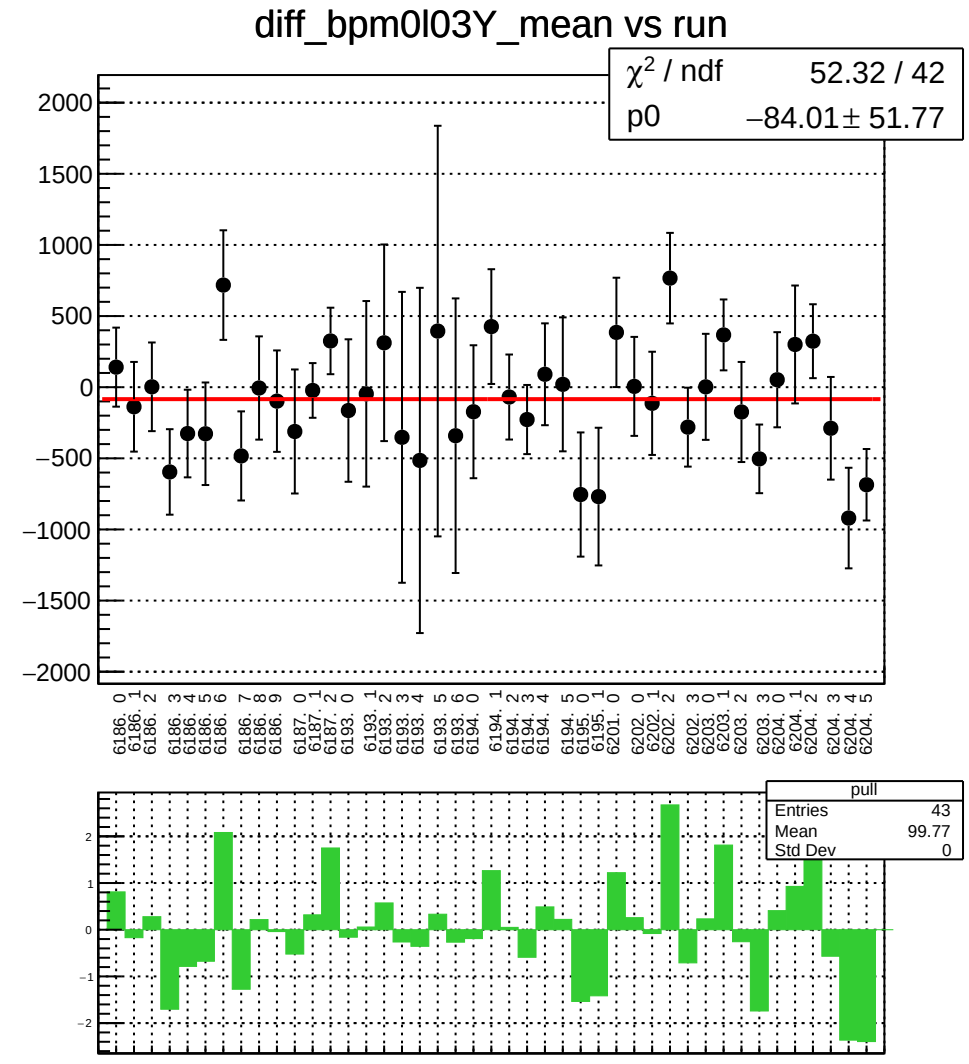

diff_bpm0l02Y_mean vs run
χ^2 / ndf 40.69 / 42
p0 34.13 ± 7.905
250
200
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −531.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.001531
Std Dev 0.9728
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

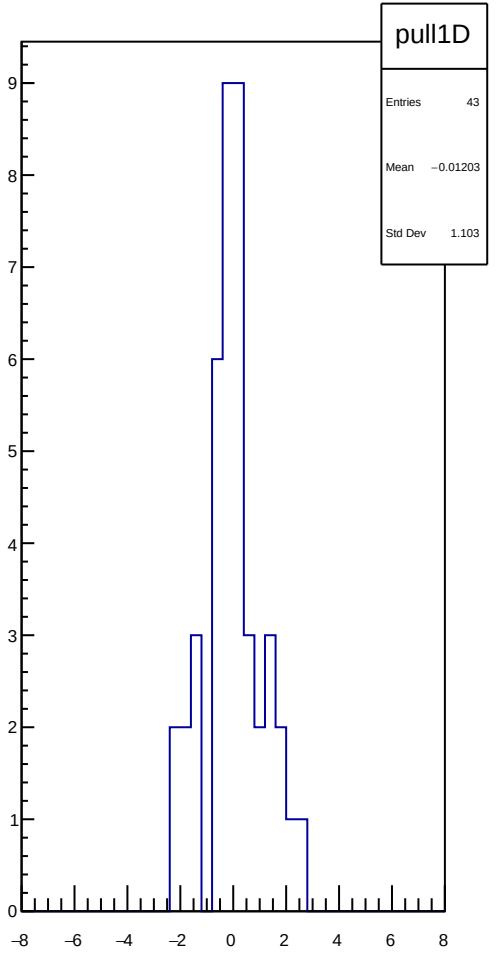

diff_bpm0l02Y_rms vs run
χ² / ndf 7923 / 42
p0 5115 ± 5.59
6000
5500
5000
4500
4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

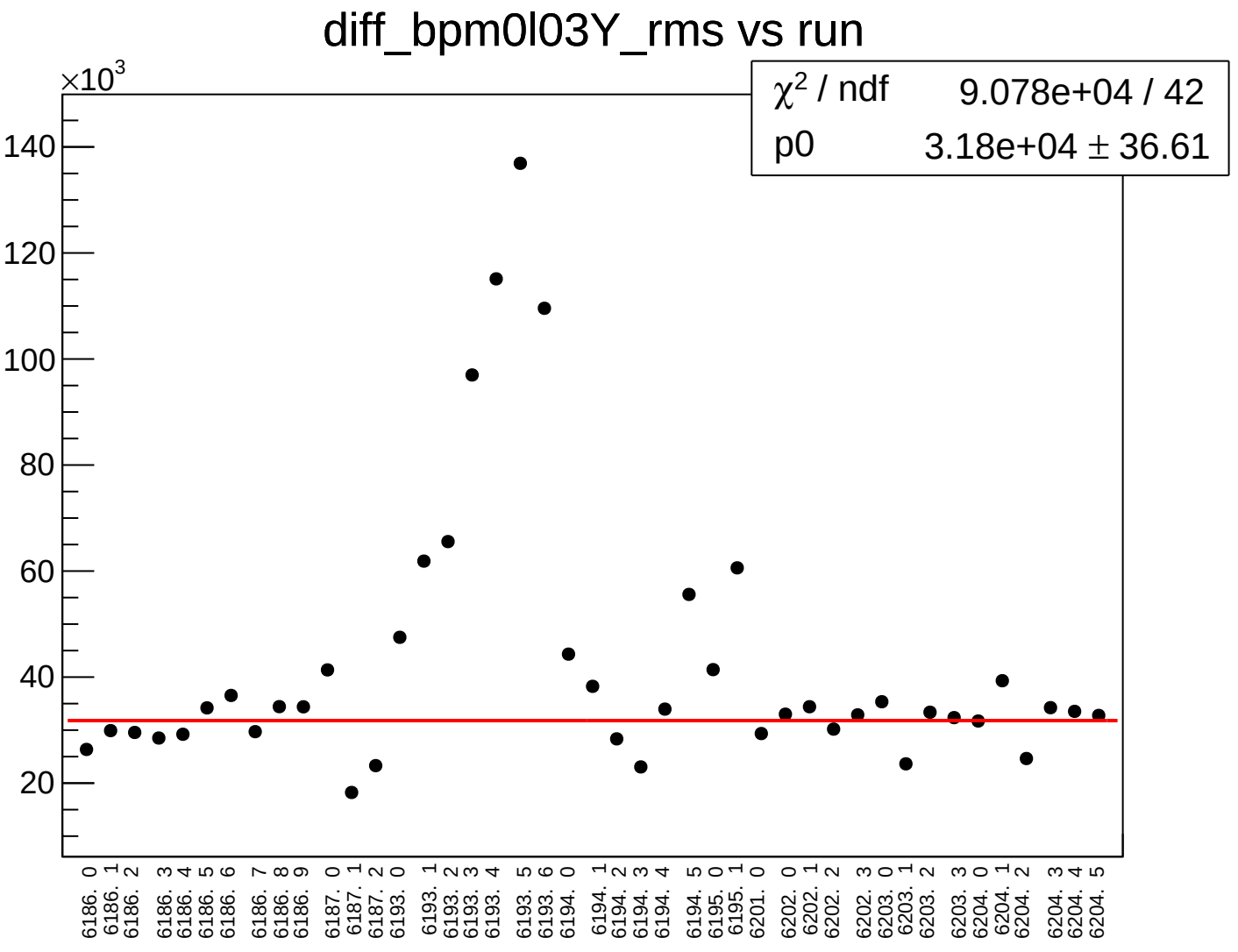

diff_bpm0l03X_mean vs run
χ² / ndf 45.41 / 42
p0 −122.2 ± 52.42
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 133.3
Std Dev 0
2
1
0
−1
−2

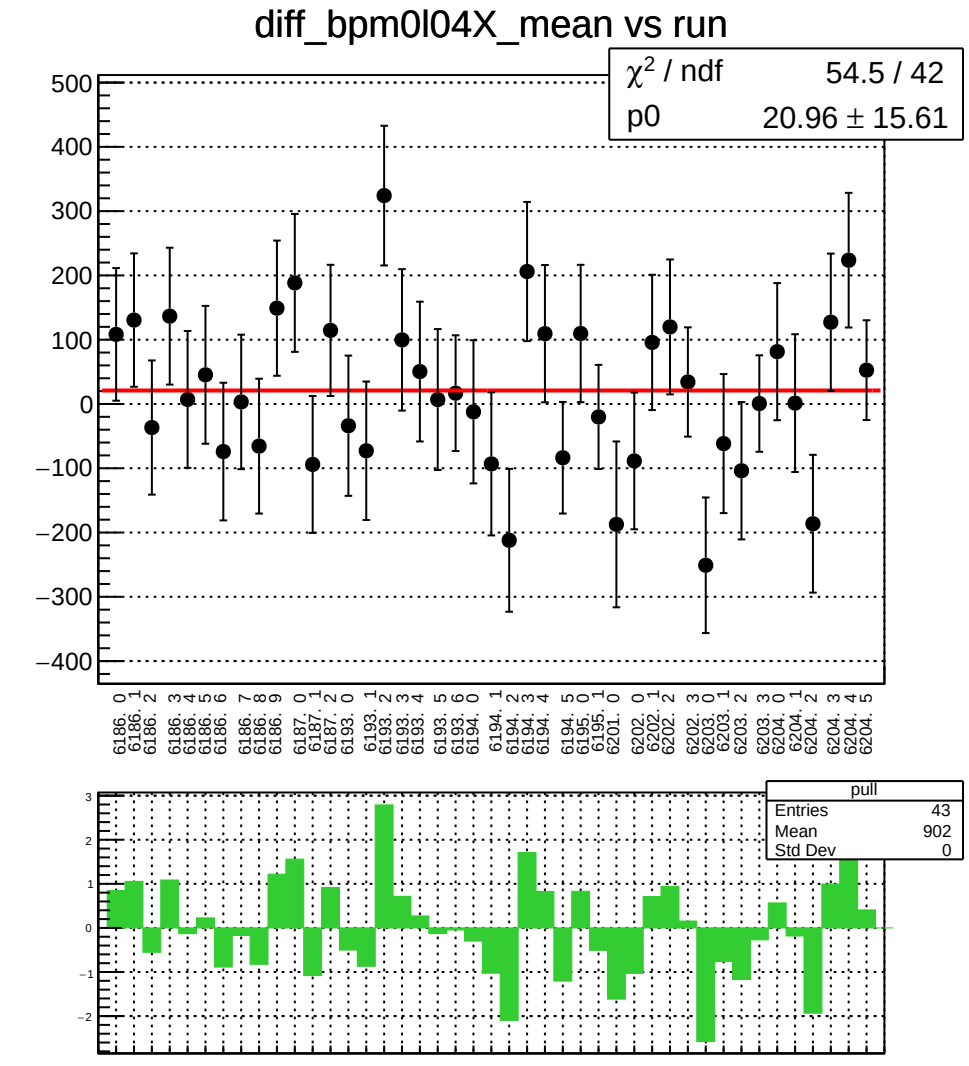

pull1D
Entries 43
Mean −0.009267
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

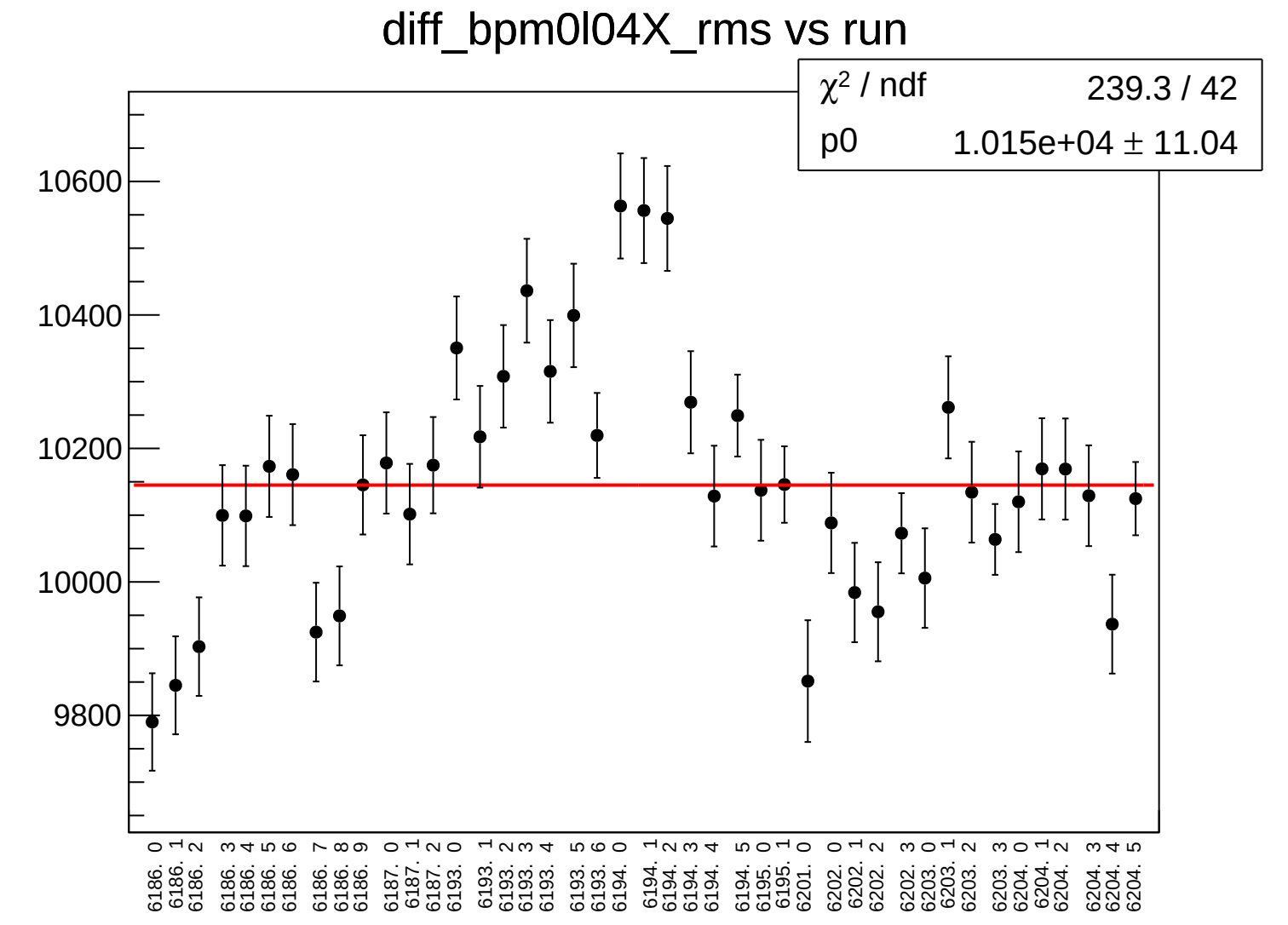

diff_bpm0l03X_rms vs run
×10^3
140
120
100
80
60
40
20
χ² / ndf 8.832e+04 / 42
p0 3.225e+04 ± 37.07
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

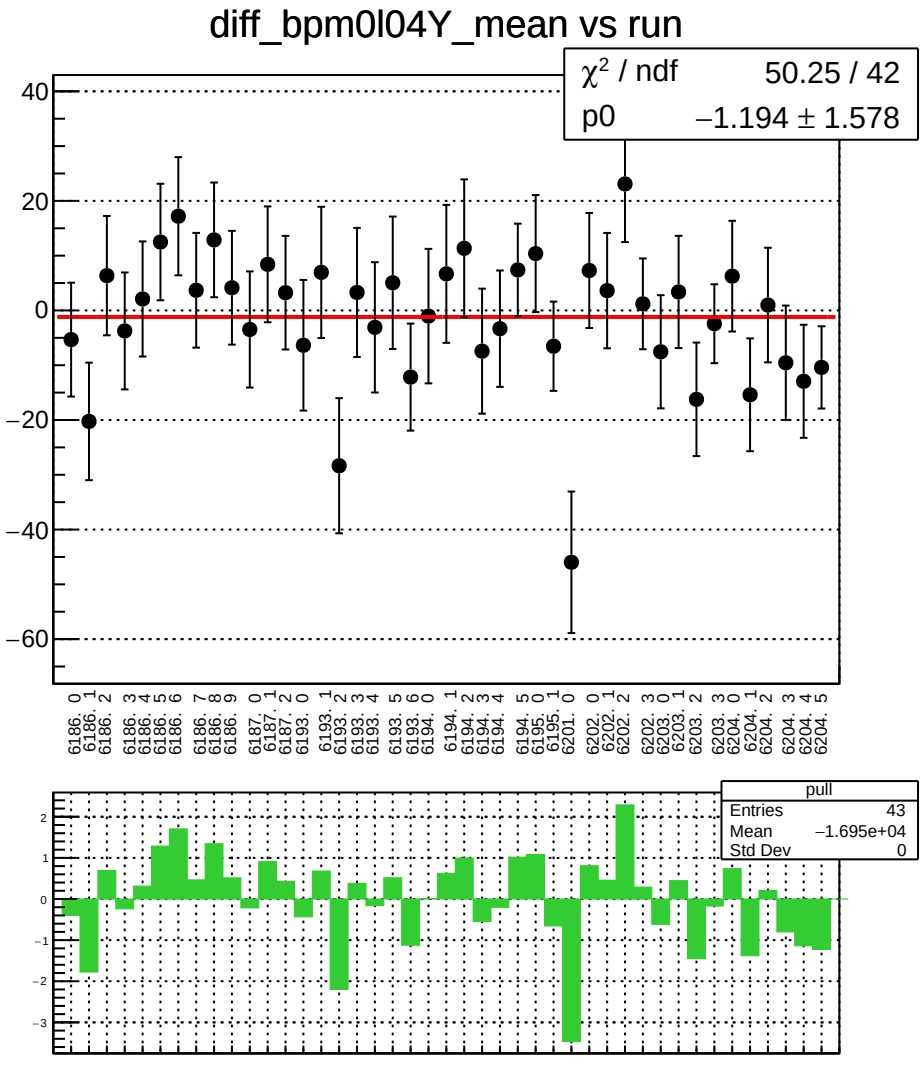

diff_bpm0l03Y_mean vs run
χ² / ndf 52.32 / 42
p0 −84.01 ± 51.77
2000
1500
1000
500
0
−500
−1000
−1500
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 99.77
Std Dev 0
2
1
0
−1
−2

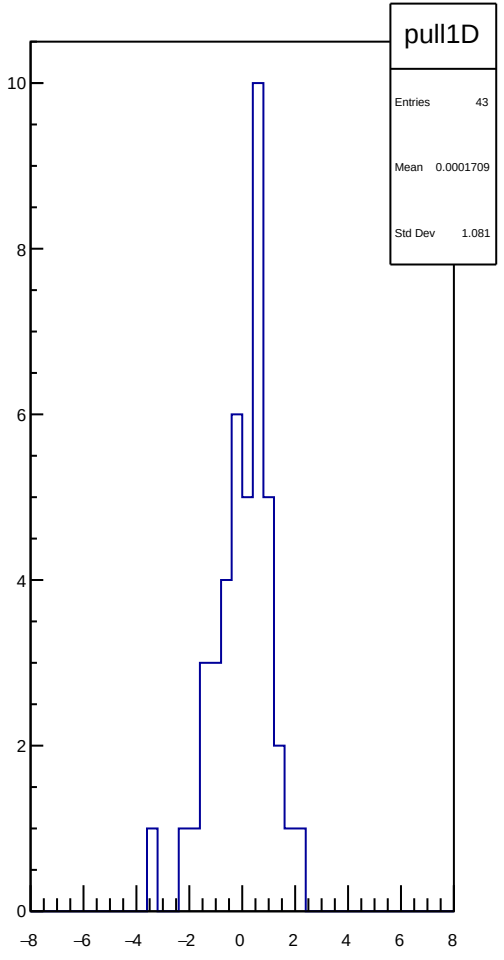

pull1D
Entries 43
Mean −0.01203
Std Dev 1.103
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

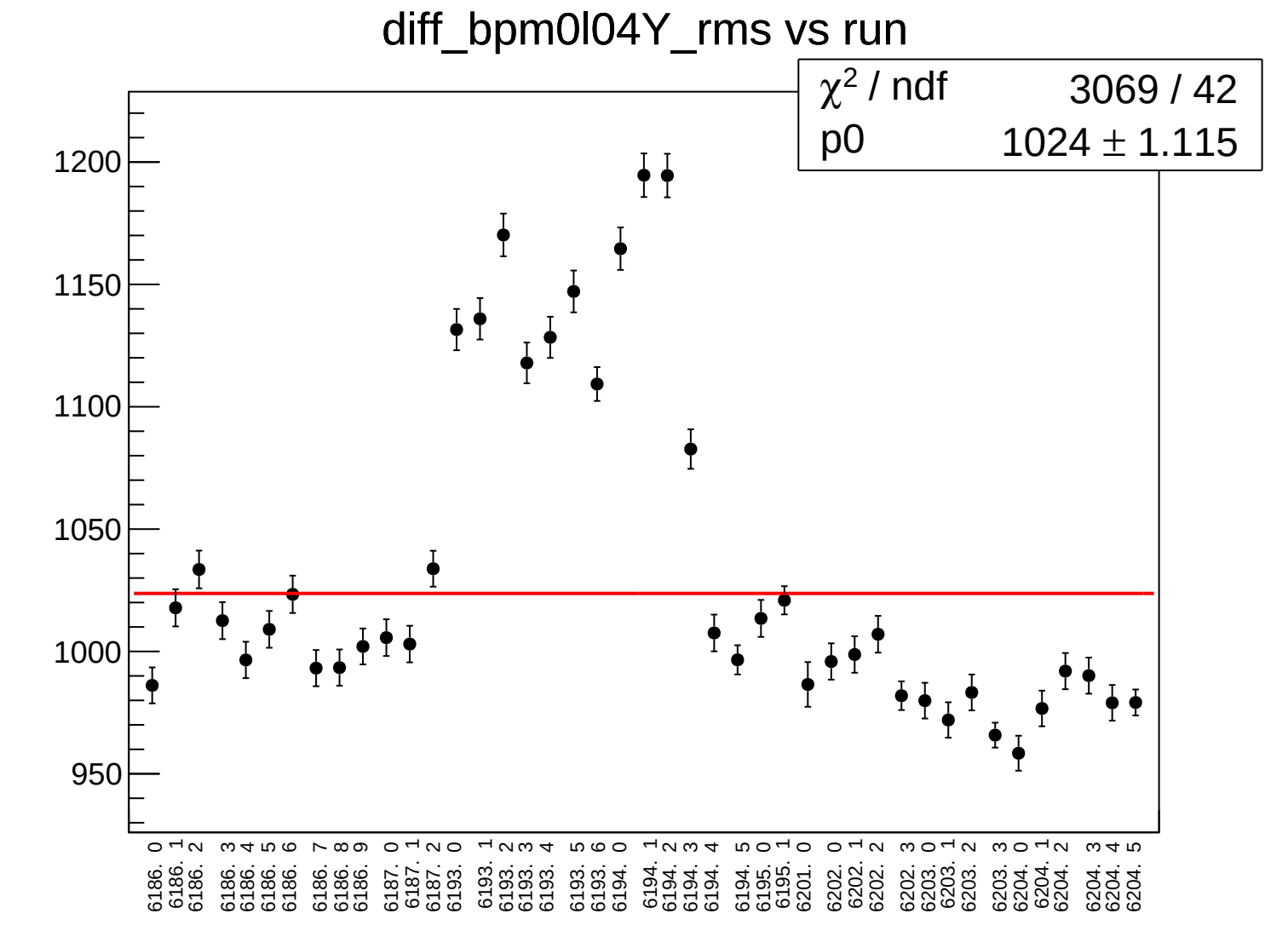

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 9.078e+04 / 42
p0 3.18e+04 ± 36.61
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

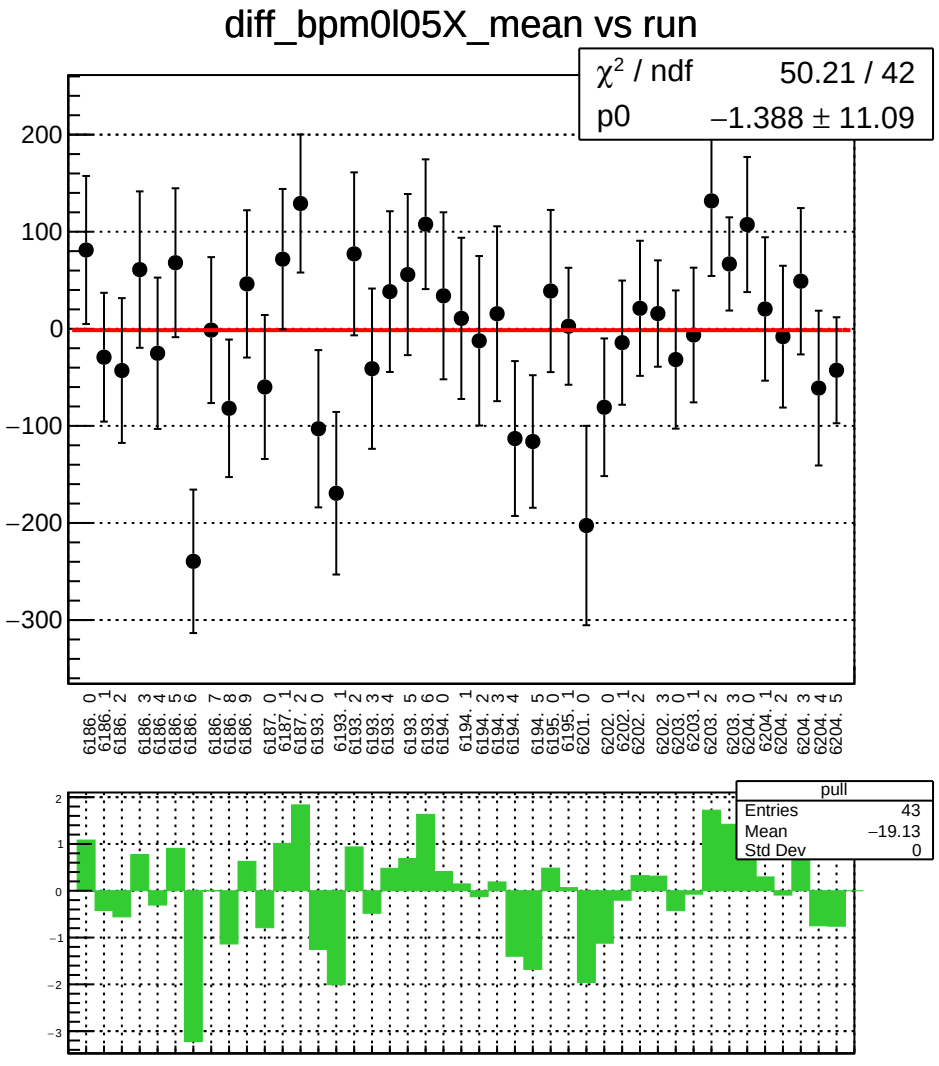

diff_bpm0l04X_mean vs run
χ^2 / ndf 54.5 / 42
p0 20.96 ± 15.61
500
400
300
200
100
0
−100
−200
−300
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 902
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.00234
Std Dev 1.126
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

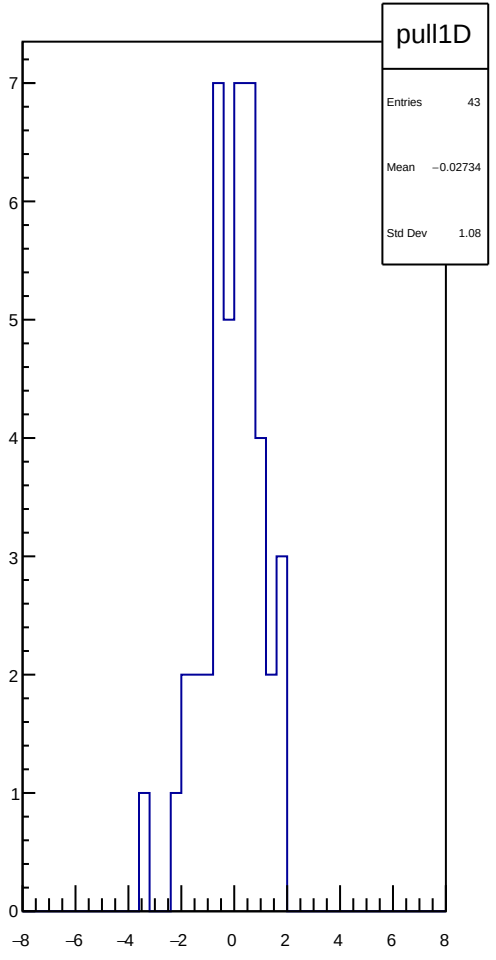

diff_bpm0l04X_rms vs run
χ² / ndf 239.3 / 42
p0 1.015e+04 ± 11.04
10600
10400
10200
10000
9800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

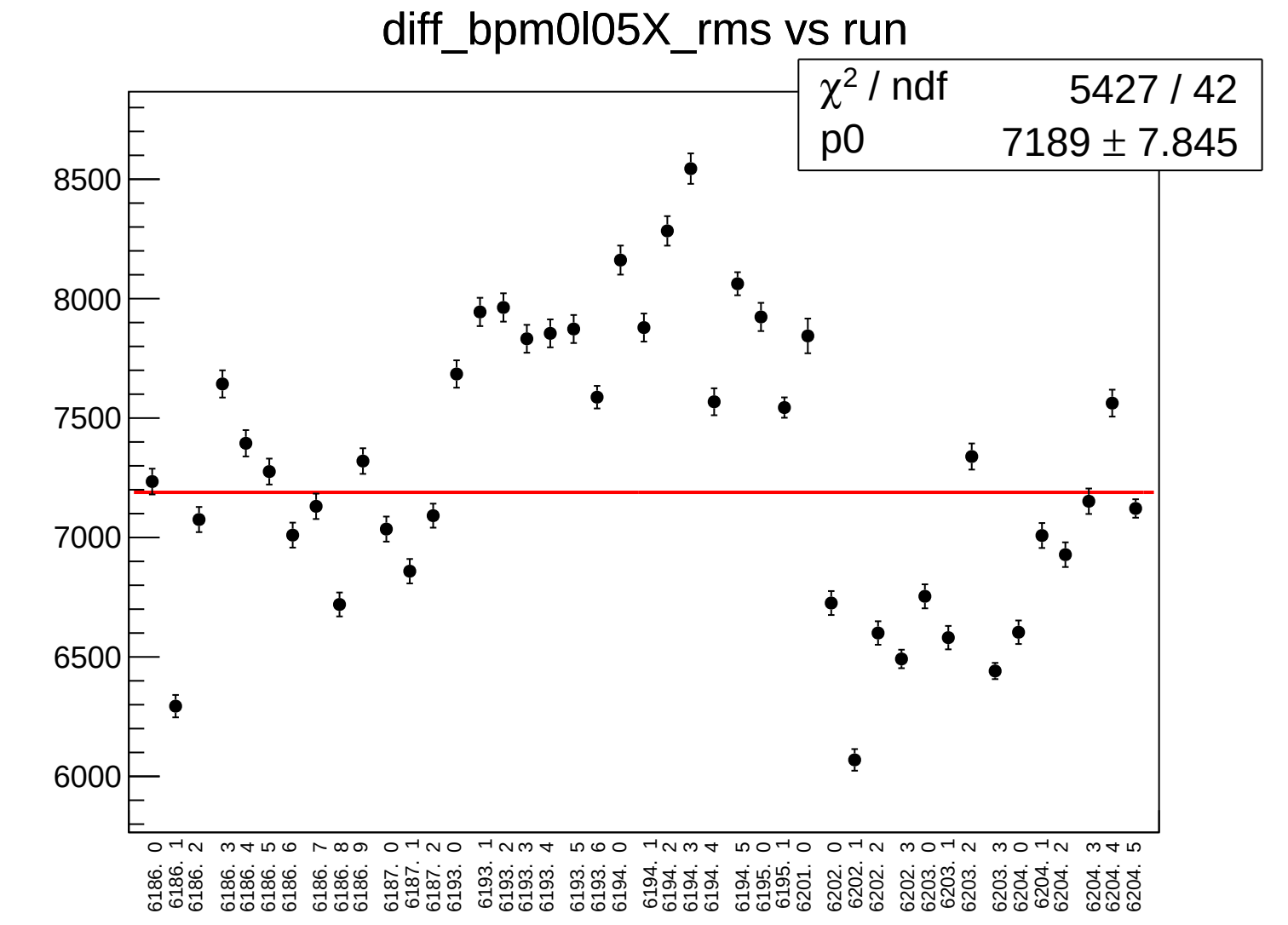

diff_bpm0l04Y_mean vs run
χ² / ndf 50.25 / 42
p0 −1.194 ± 1.578
40
20
0
−20
−40
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1.695e+04
Std Dev 0
2
1
0
−1
−2
−3

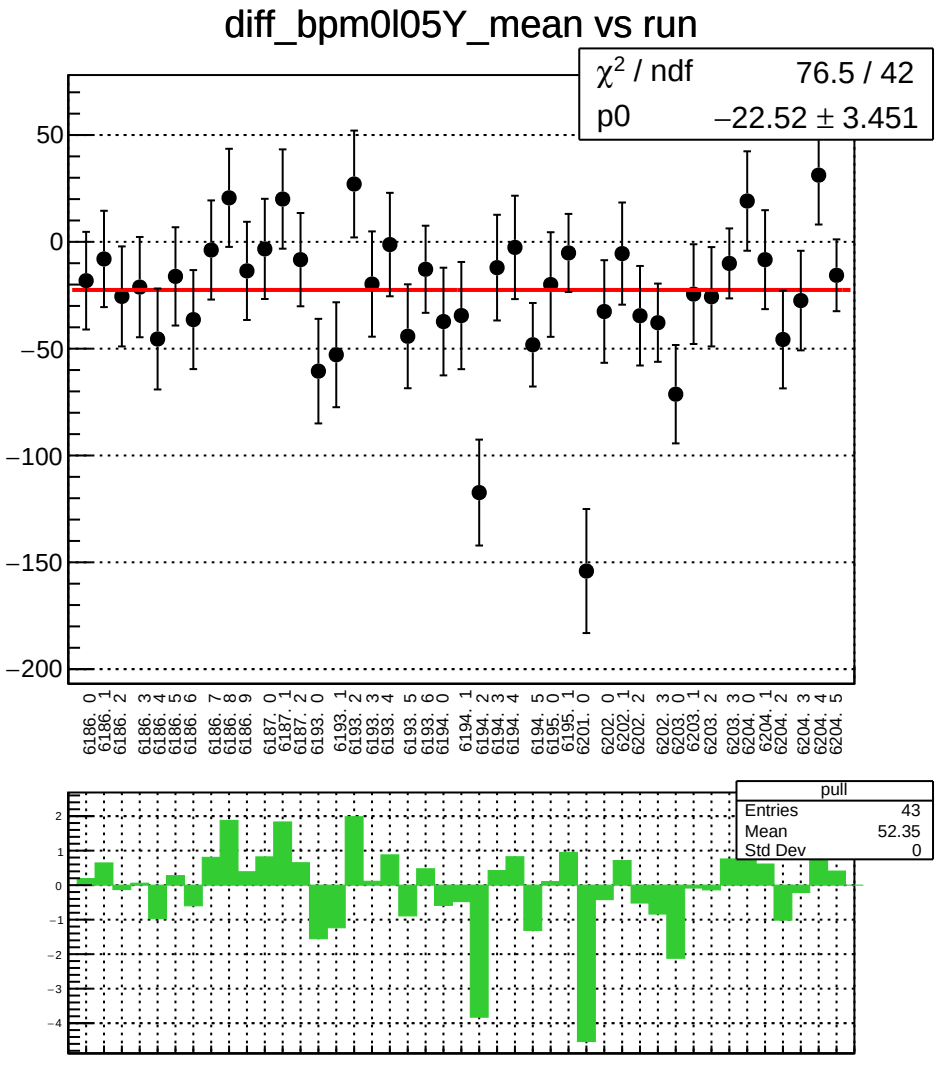

pull1D
Entries 43
Mean 0.0001709
Std Dev 1.081
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

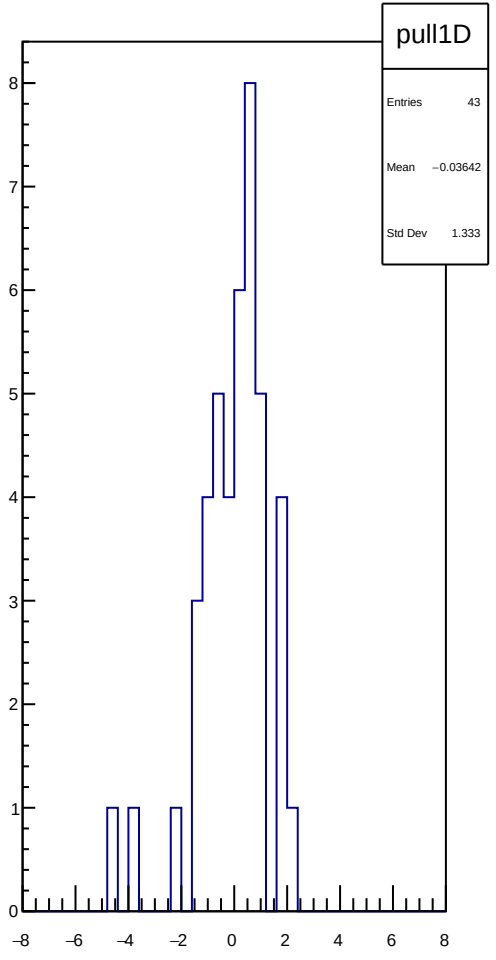

diff_bpm0l04Y_rms vs run
χ² / ndf 3069 / 42
p0 1024 ± 1.115
1200
1150
1100
1050
1000
950
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

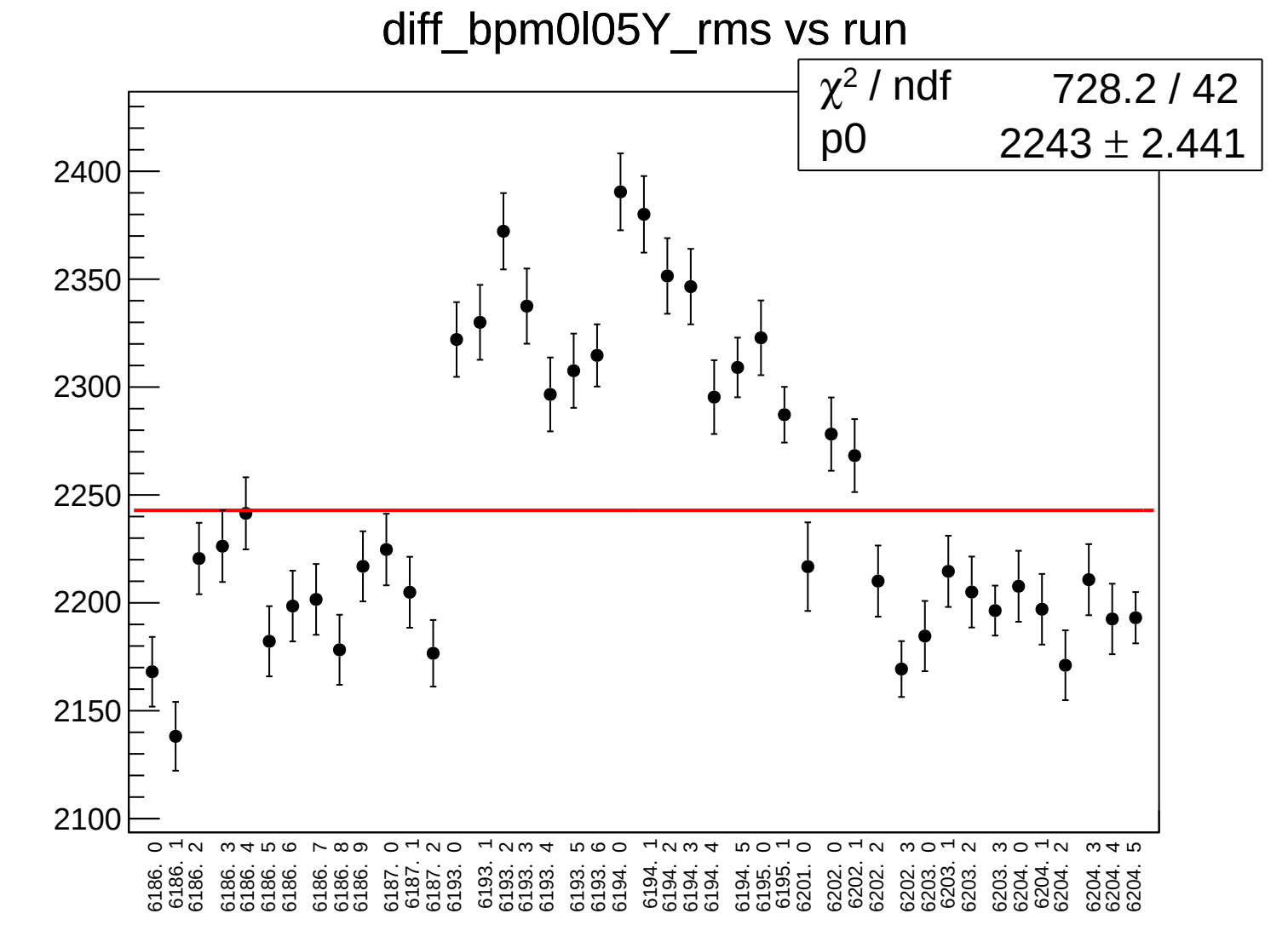

diff_bpm0l05X_mean vs run
χ² / ndf 50.21 / 42
p0 −1.388 ± 11.09
200
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −19.13
Std Dev 0
2
1
0
−1
−2
−3

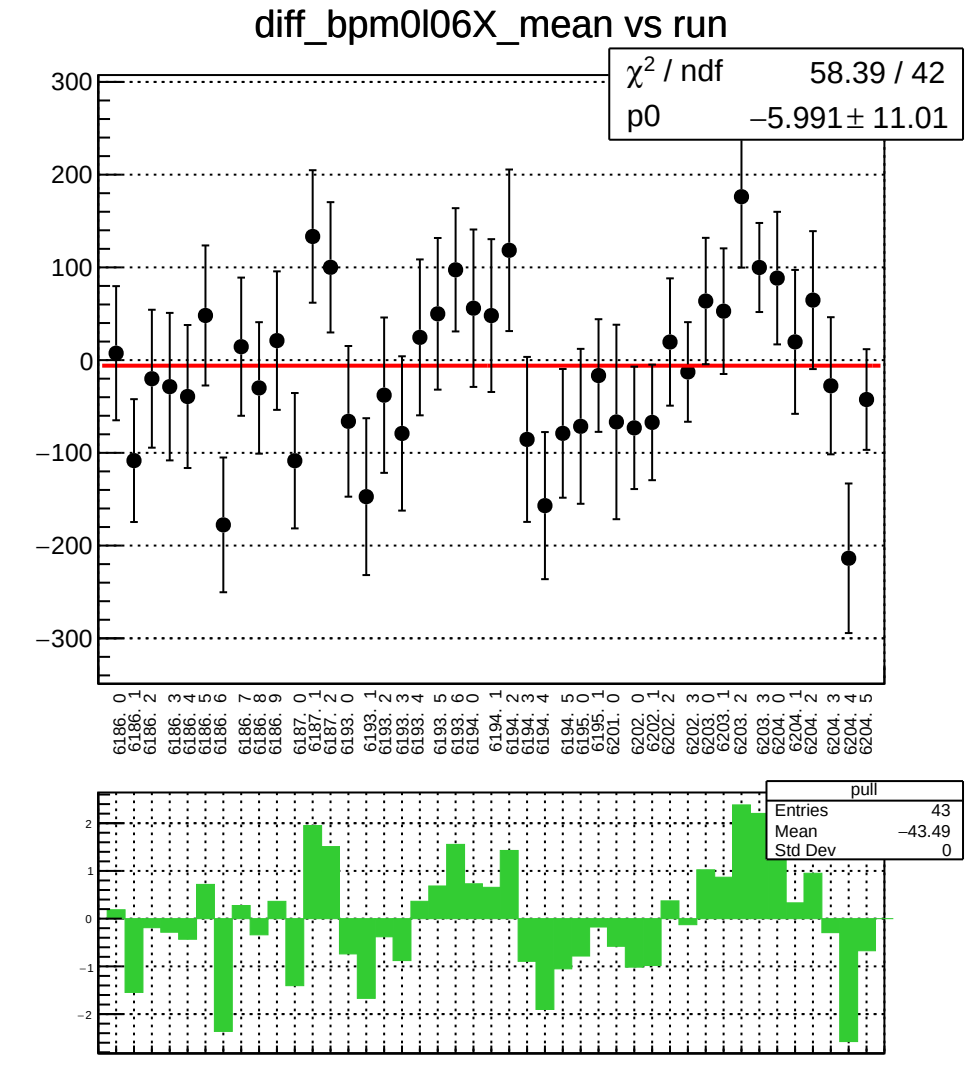

pull1D
Entries 43
Mean −0.02734
Std Dev 1.08
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

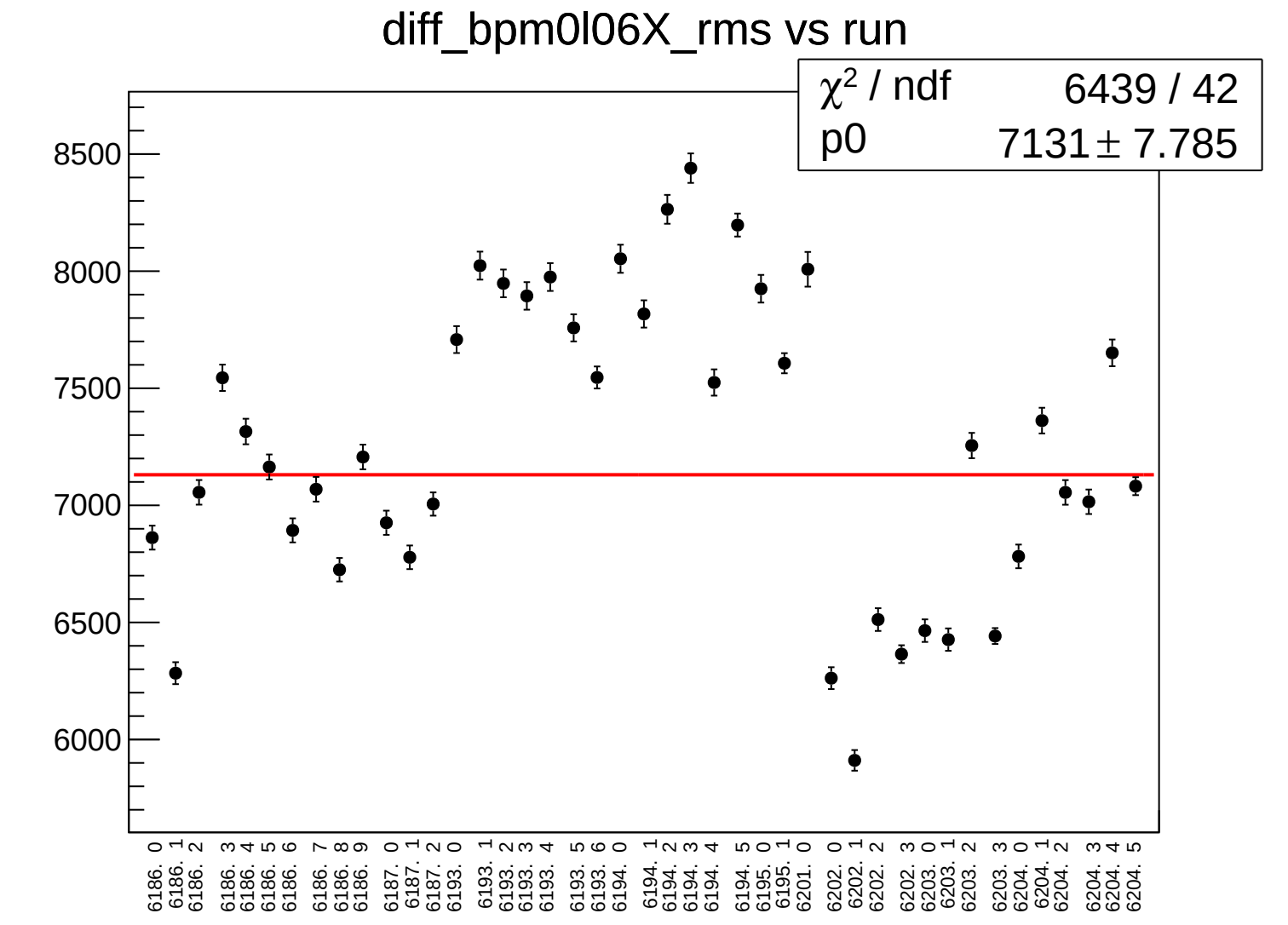

diff_bpm0l05X_rms vs run
χ² / ndf 5427 / 42
p0 7189 ± 7.845
8500
8000
7500
7000
6500
6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

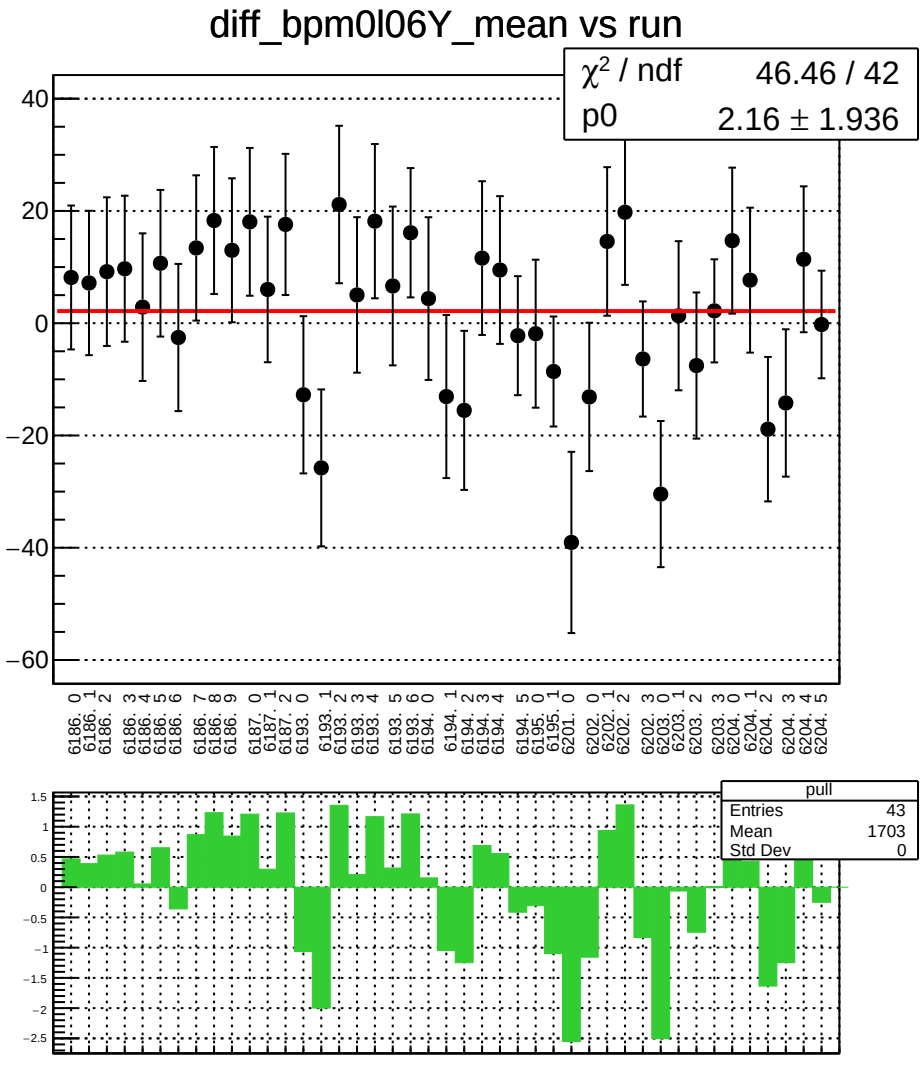

diff_bpm0l05Y_mean vs run
χ² / ndf 76.5 / 42
p0 −22.52 ± 3.451
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 52.35
Std Dev 0
2
1
0
−1
−2
−3
−4

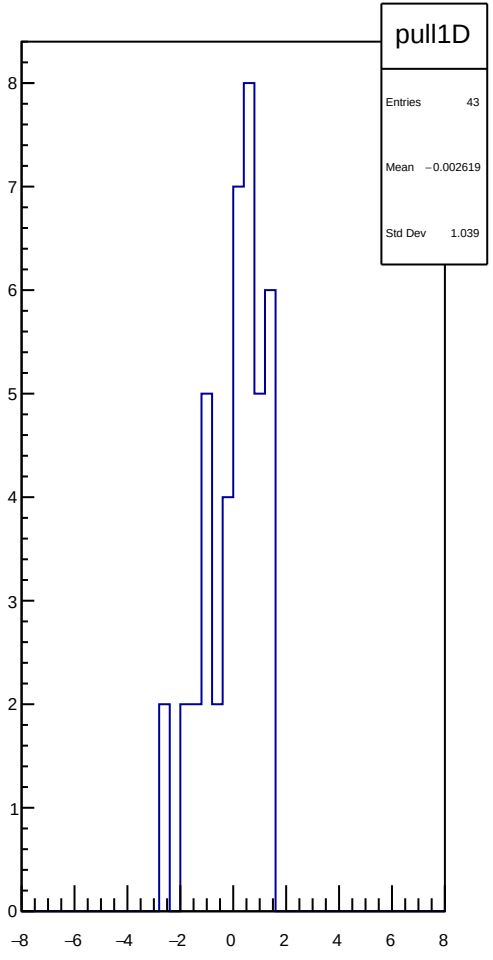

pull1D
Entries 43
Mean −0.03642
Std Dev 1.333
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

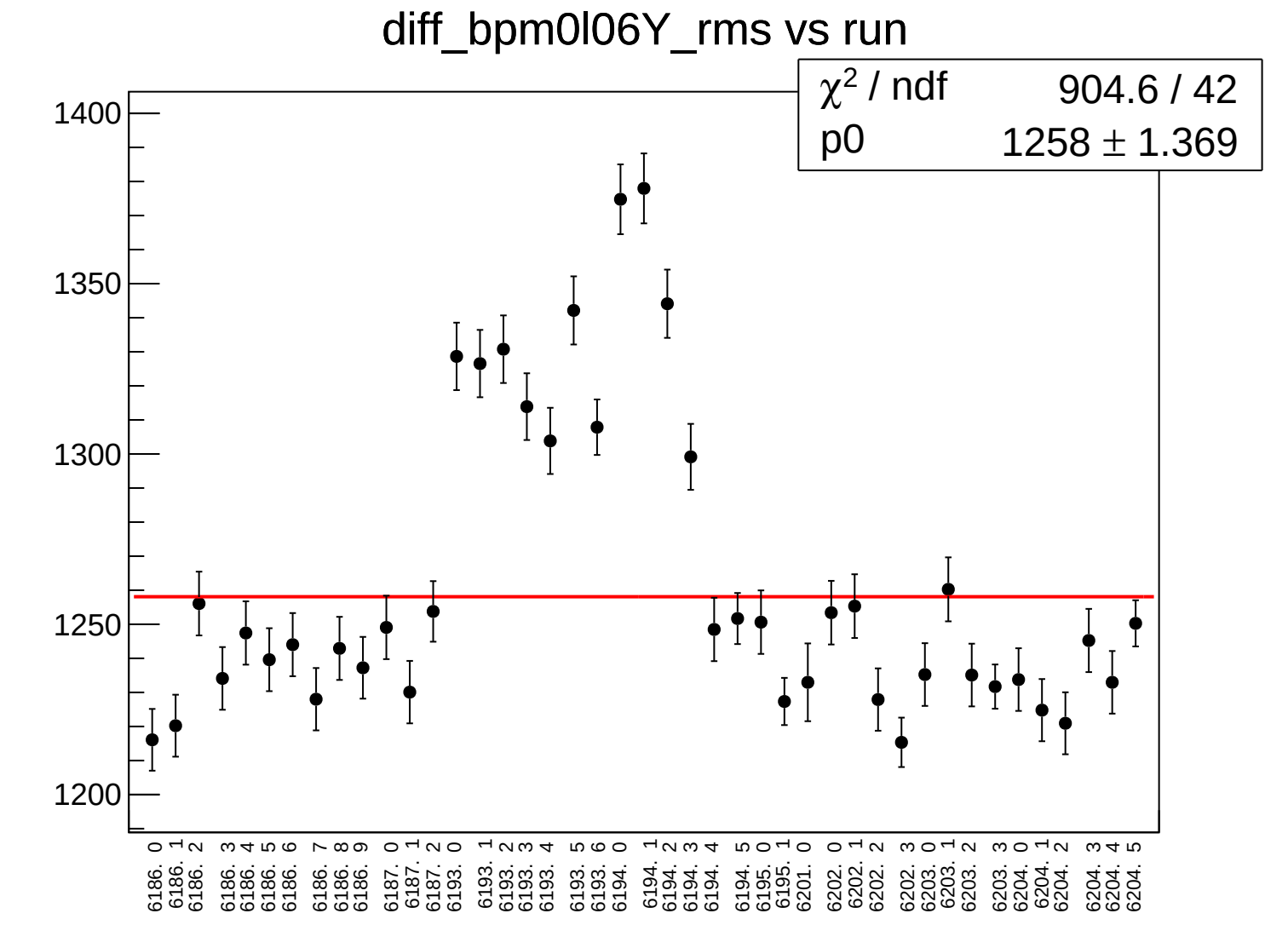

diff_bpm0l05Y_rms vs run
χ² / ndf 728.2 / 42
p0 2243 ± 2.441
2400
2350
2300
2250
2200
2150
2100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

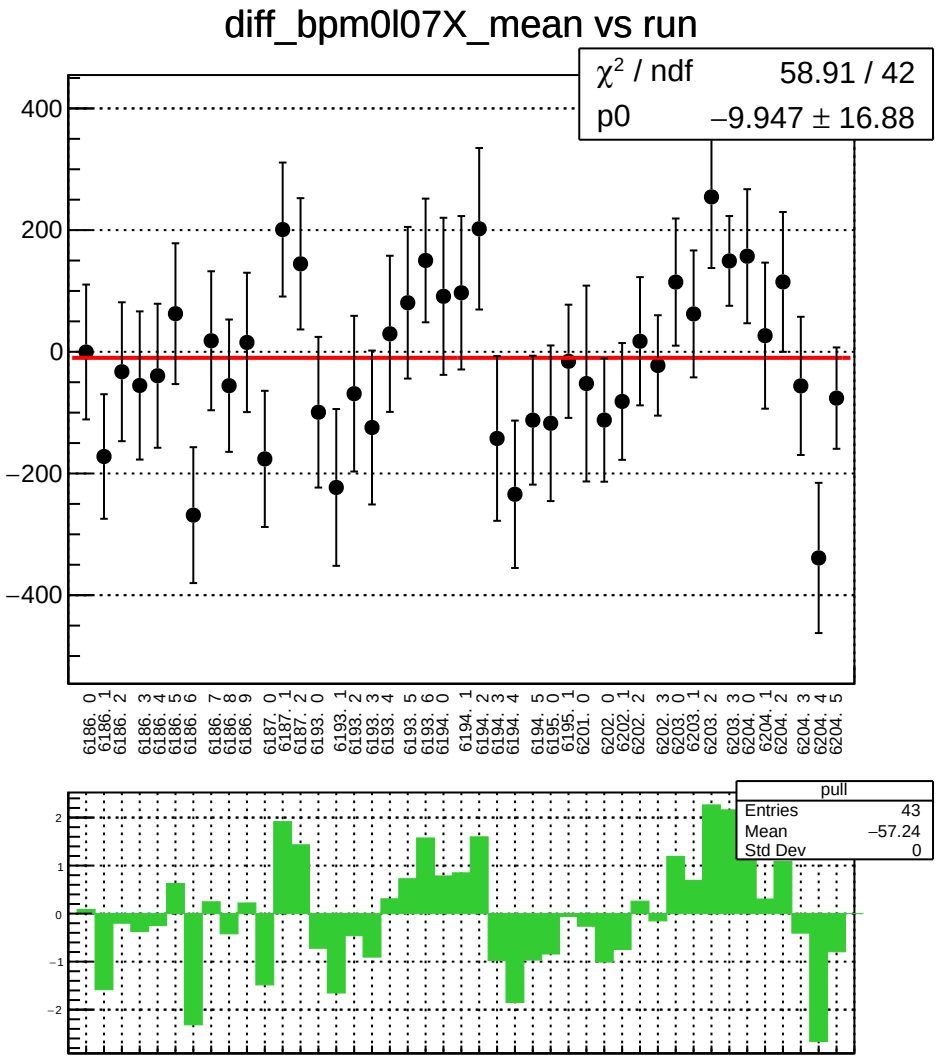

diff_bpm0l06X_mean vs run
χ² / ndf 58.39 / 42
p0 −5.991 ± 11.01
pull
Entries 43
Mean −43.49
Std Dev 0
pull1D
Entries 43
Mean −0.03265
Std Dev 1.165

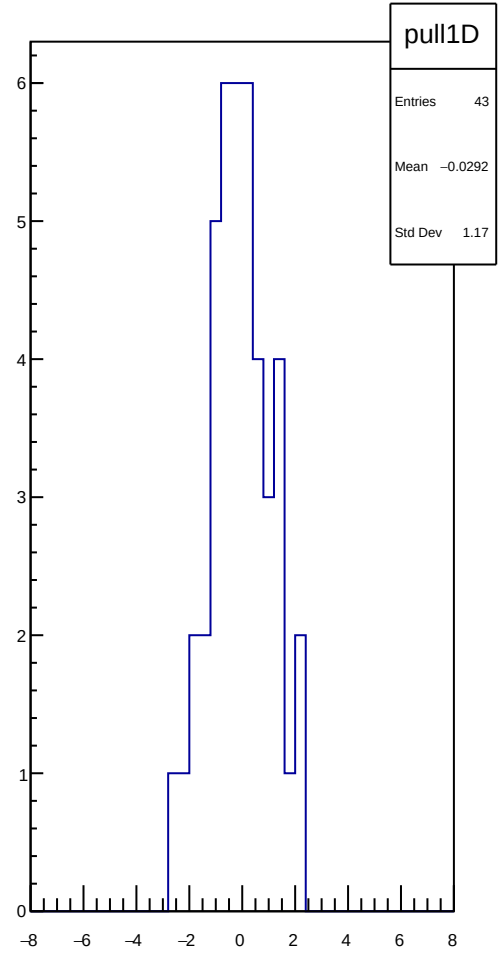

diff_bpm0l06X_rms vs run
χ² / ndf 6439 / 42
p0 7131 ± 7.785
8500
8000
7500
7000
6500
6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

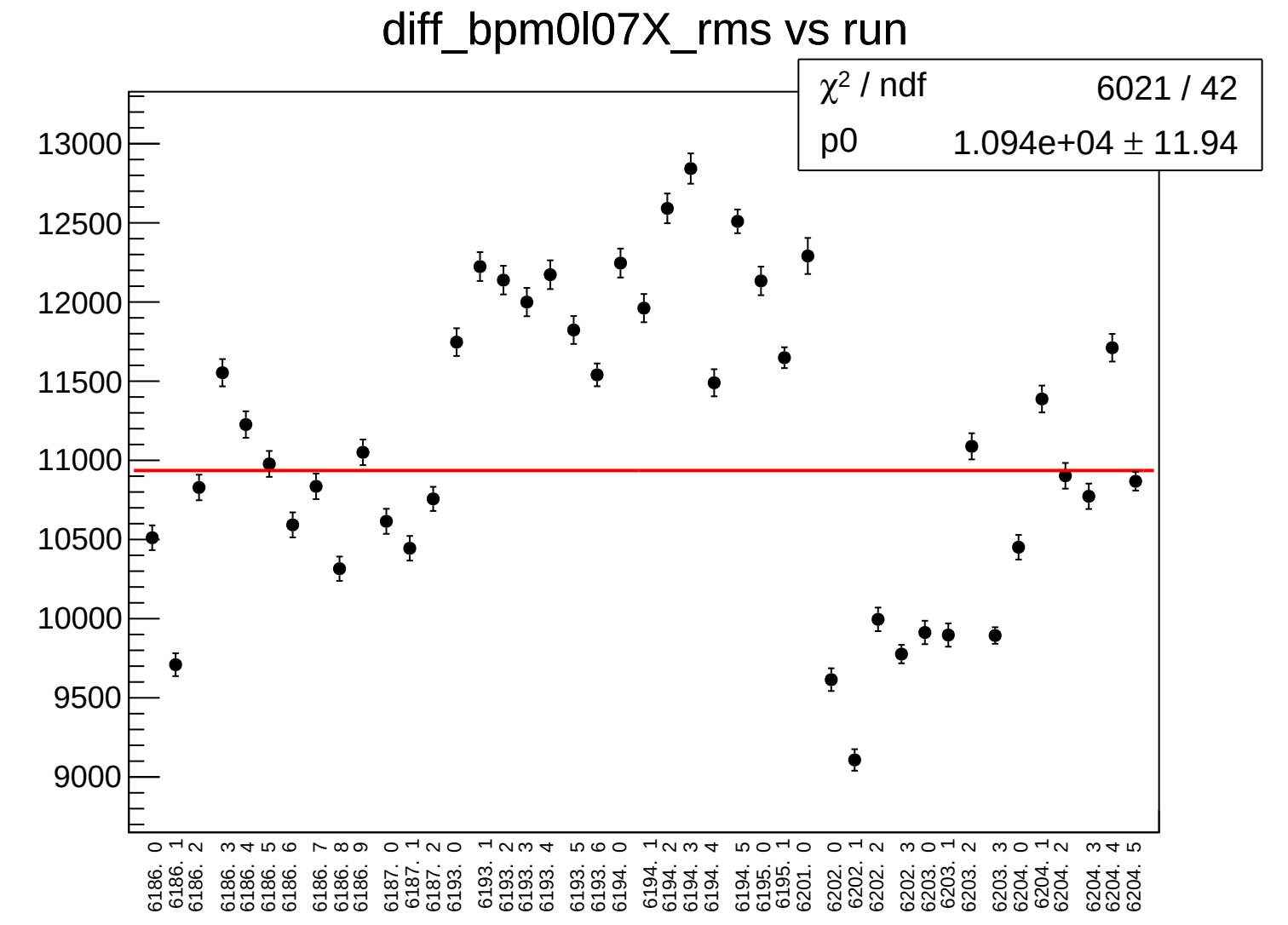

diff_bpm0l06Y_mean vs run
χ² / ndf 46.46 / 42
p0 2.16 ± 1.936
40
20
0
−20
−40
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1703
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

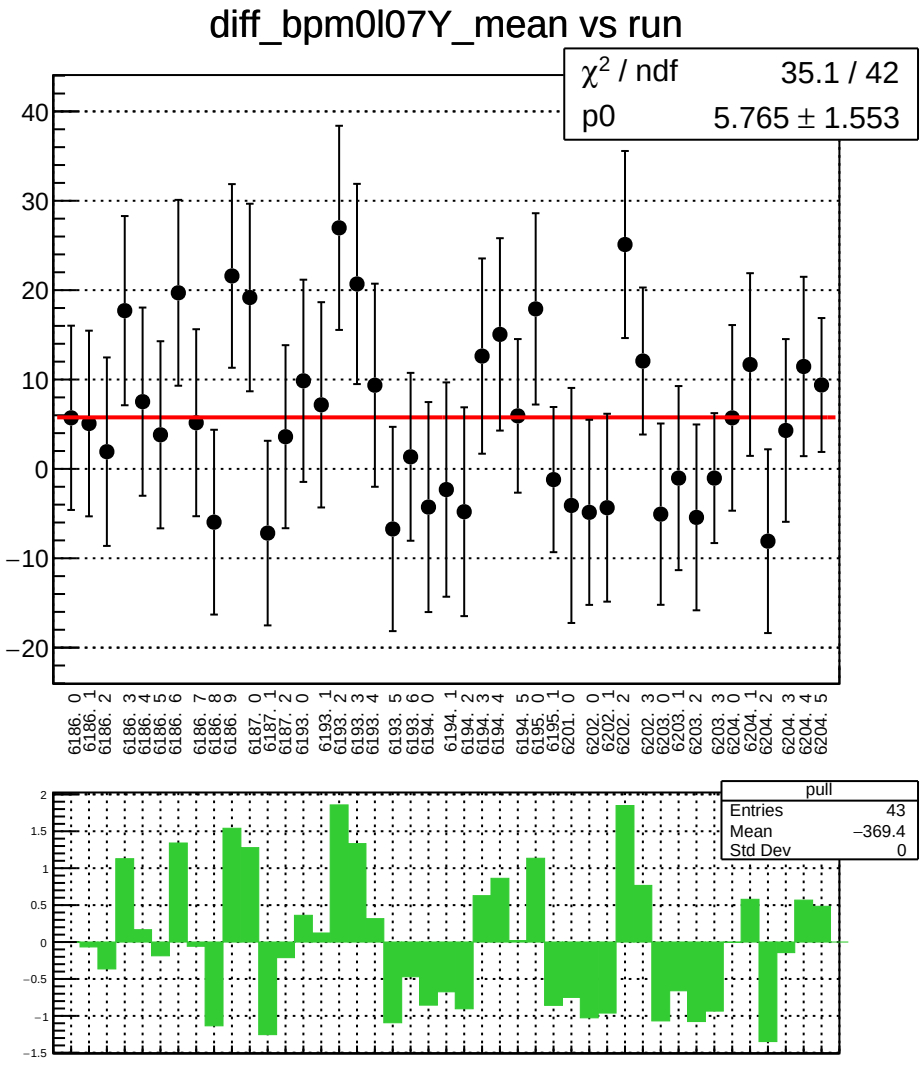

pull1D
Entries 43
Mean −0.002619
Std Dev 1.039
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

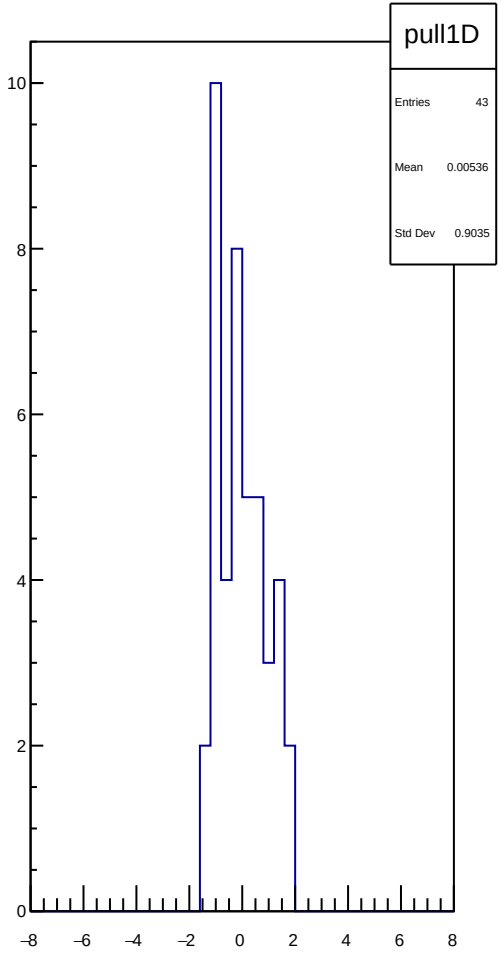

diff_bpm0l06Y_rms vs run
χ² / ndf 904.6 / 42
p0 1258 ± 1.369
1400
1350
1300
1250
1200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

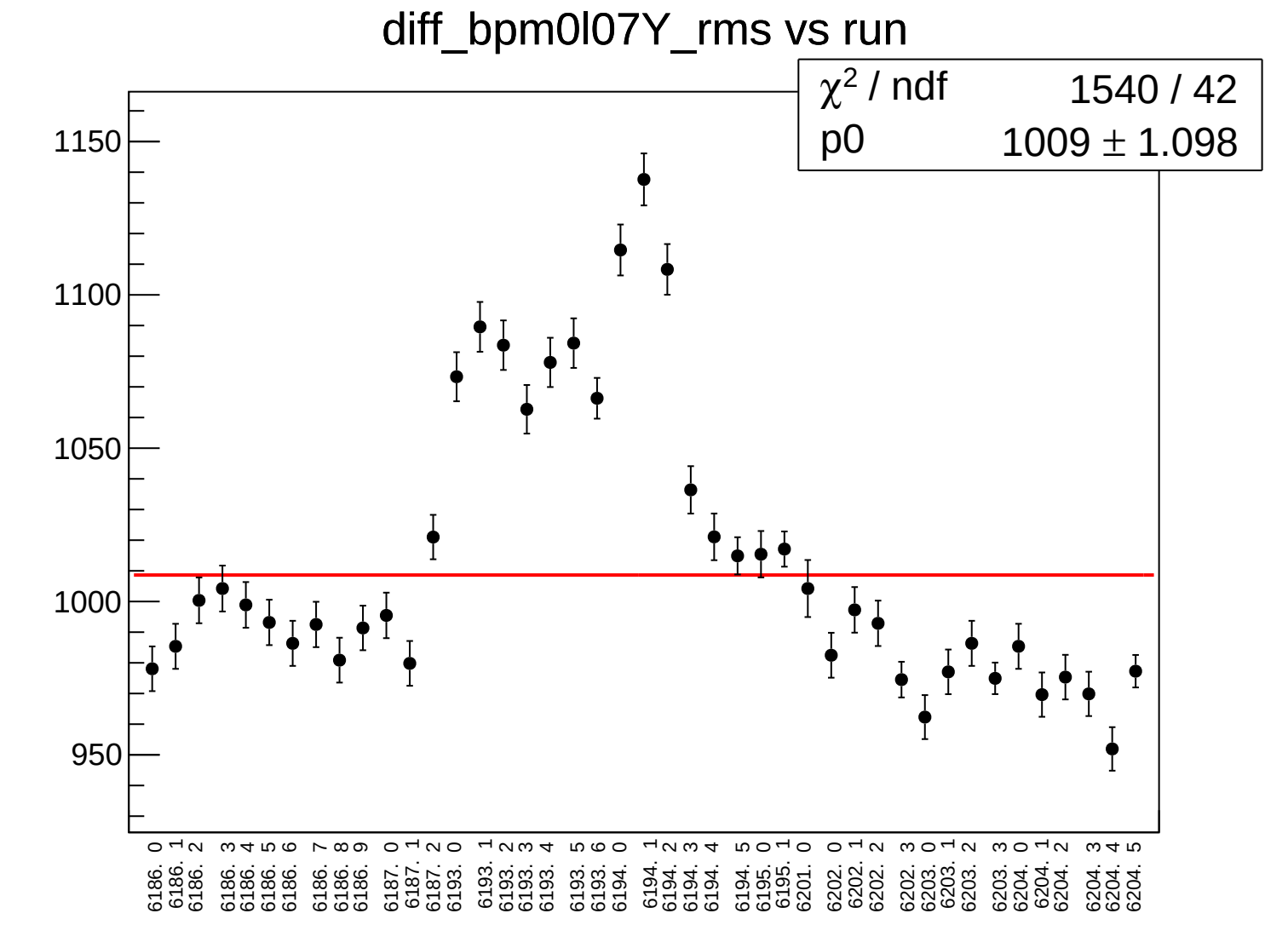

diff_bpm0l07X_mean vs run
χ² / ndf 58.91 / 42
p0 −9.947 ± 16.88
400
200
0
−200
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −57.24
Std Dev 0
2
1
0
−1
−2

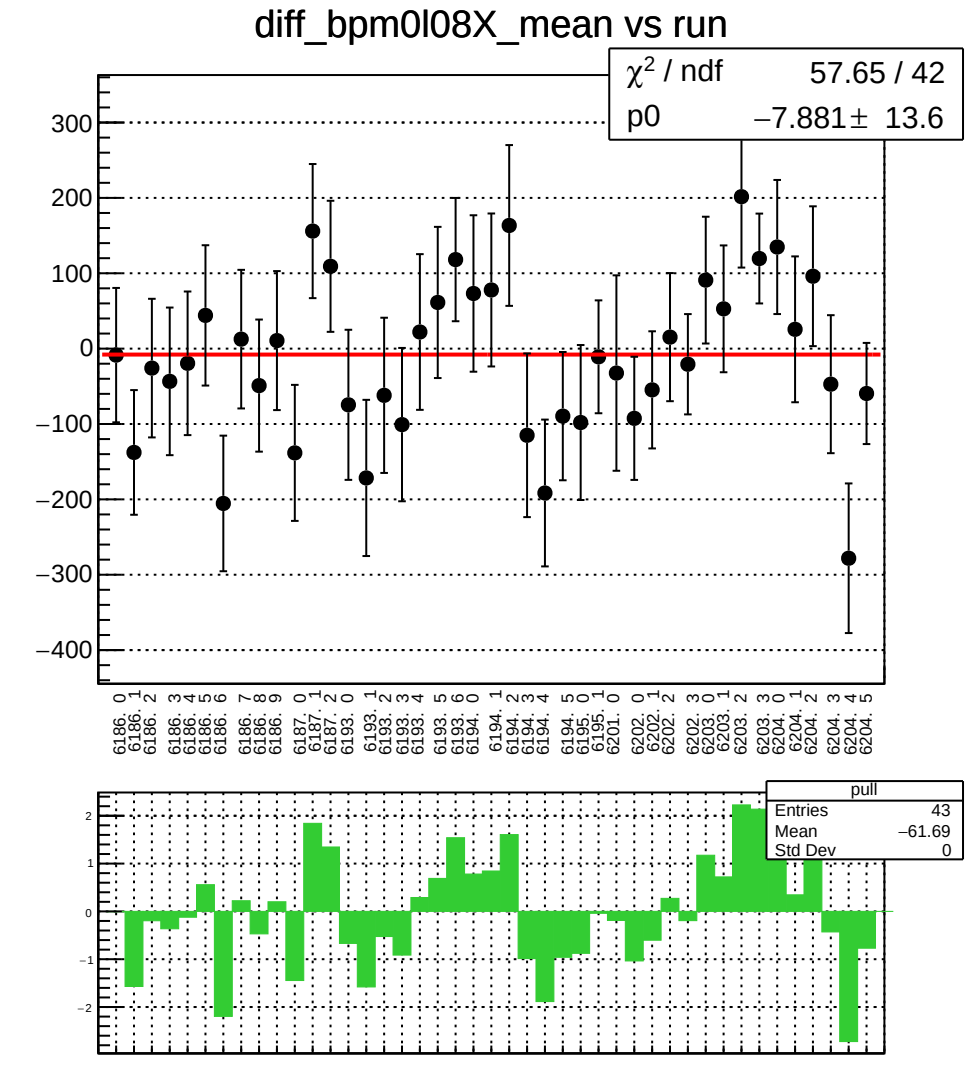

pull1D
Entries 43
Mean −0.0292
Std Dev 1.17
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

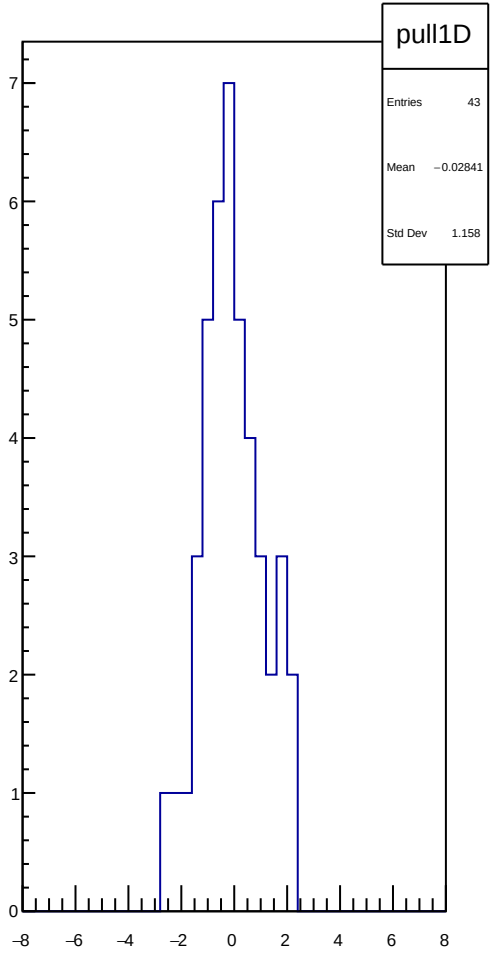

diff_bpm0l07X_rms vs run
χ² / ndf 6021 / 42
p0 1.094e+04 ± 11.94
13000
12500
12000
11500
11000
10500
10000
9500
9000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

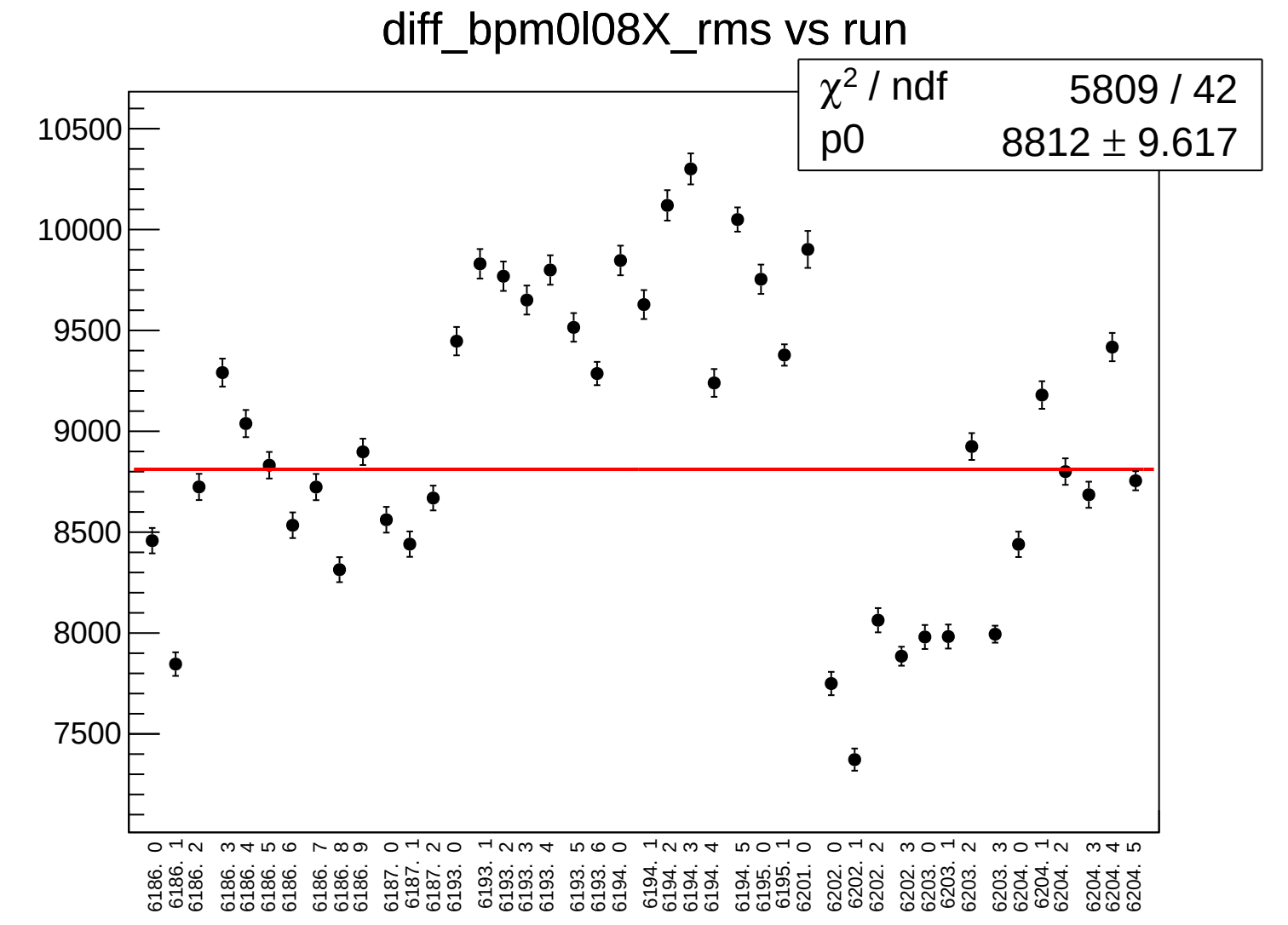

diff_bpm0l07Y_mean vs run
χ^2 / ndf 35.1 / 42
p0 5.765 ± 1.553
40
30
20
10
0
−10
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −369.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

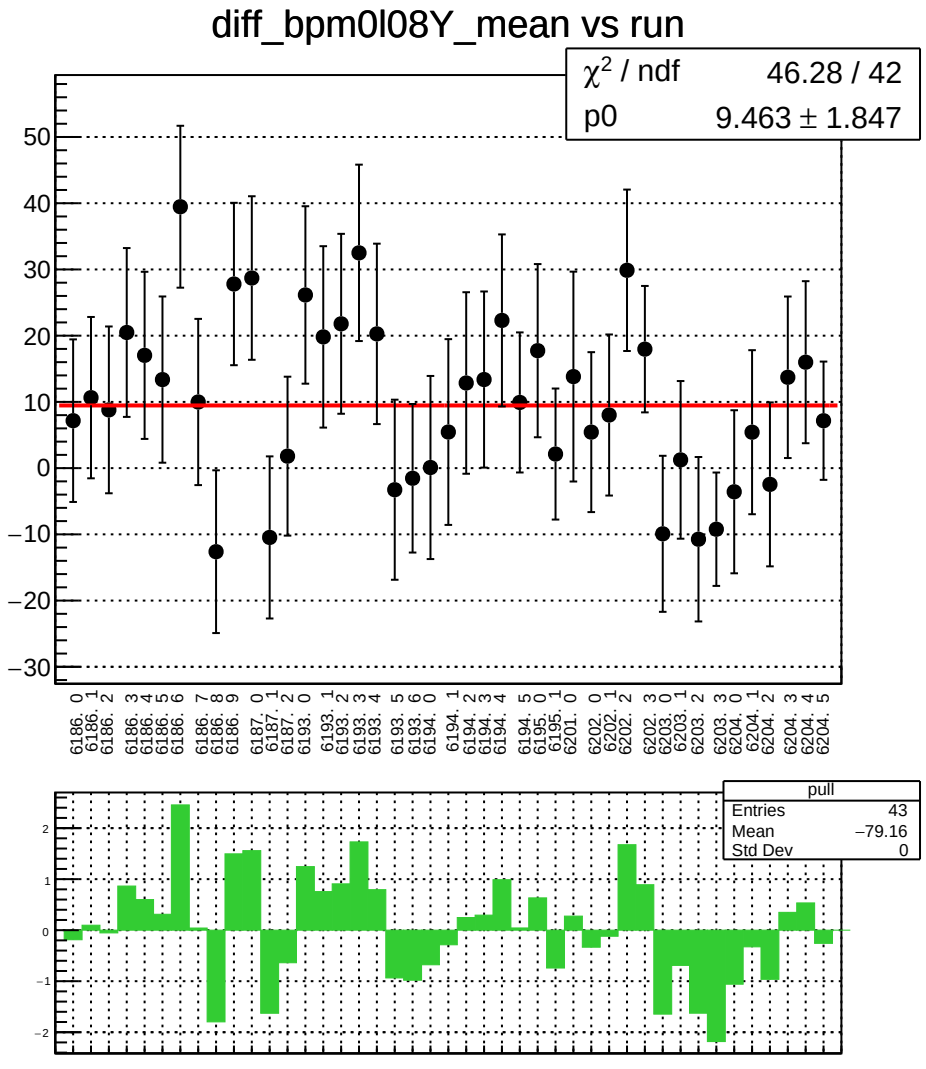

pull1D
Entries 43
Mean 0.00536
Std Dev 0.9035
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

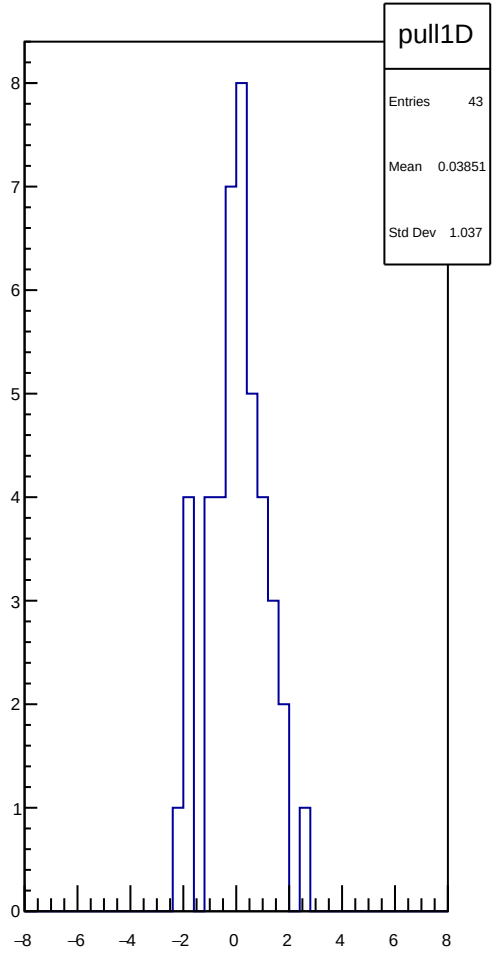

diff_bpm0l07Y_rms vs run
χ² / ndf 1540 / 42
p0 1009 ± 1.098
1150
1100
1050
1000
950
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

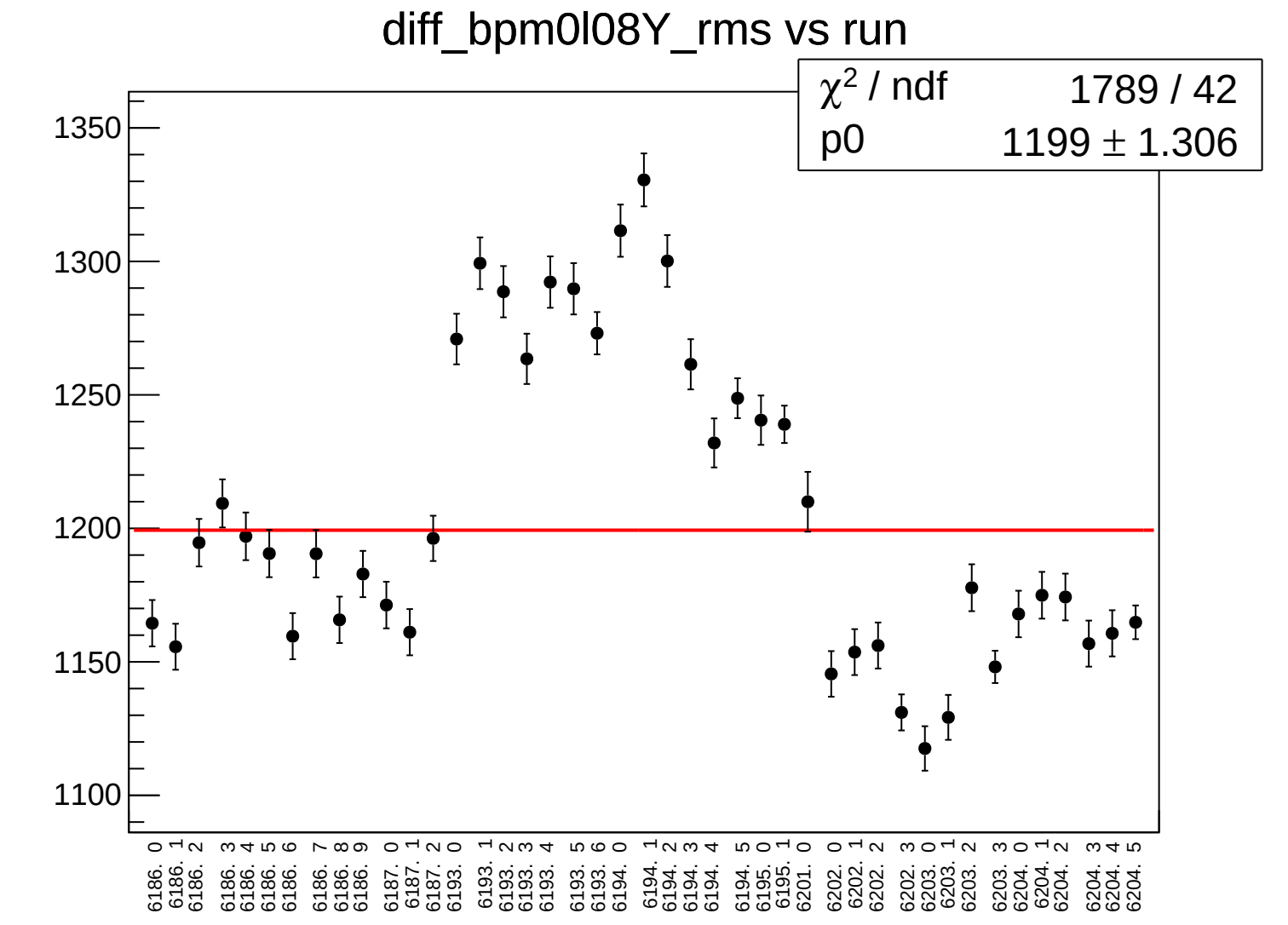

diff_bpm0l08X_mean vs run
χ² / ndf 57.65 / 42
p0 −7.881 ± 13.6
pull
Entries 43
Mean −61.69
Std Dev 0

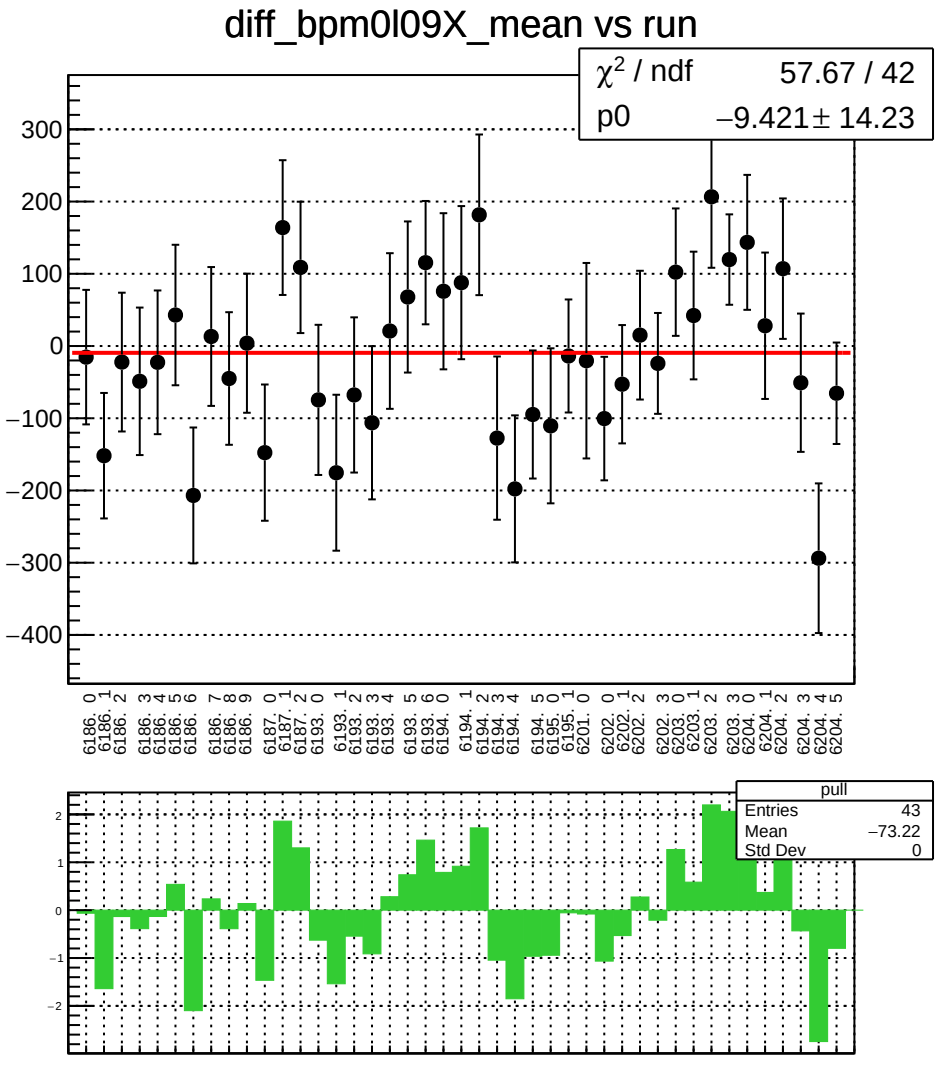

pull1D
Entries 43
Mean −0.02841
Std Dev 1.158

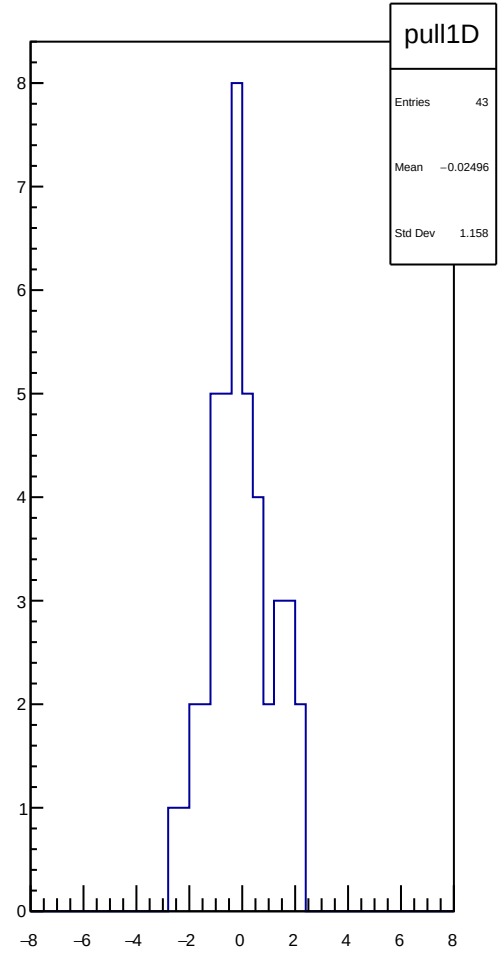

diff_bpm0l08X_rms vs run
χ² / ndf 5809 / 42
p0 8812 ± 9.617
10500
10000
9500
9000
8500
8000
7500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

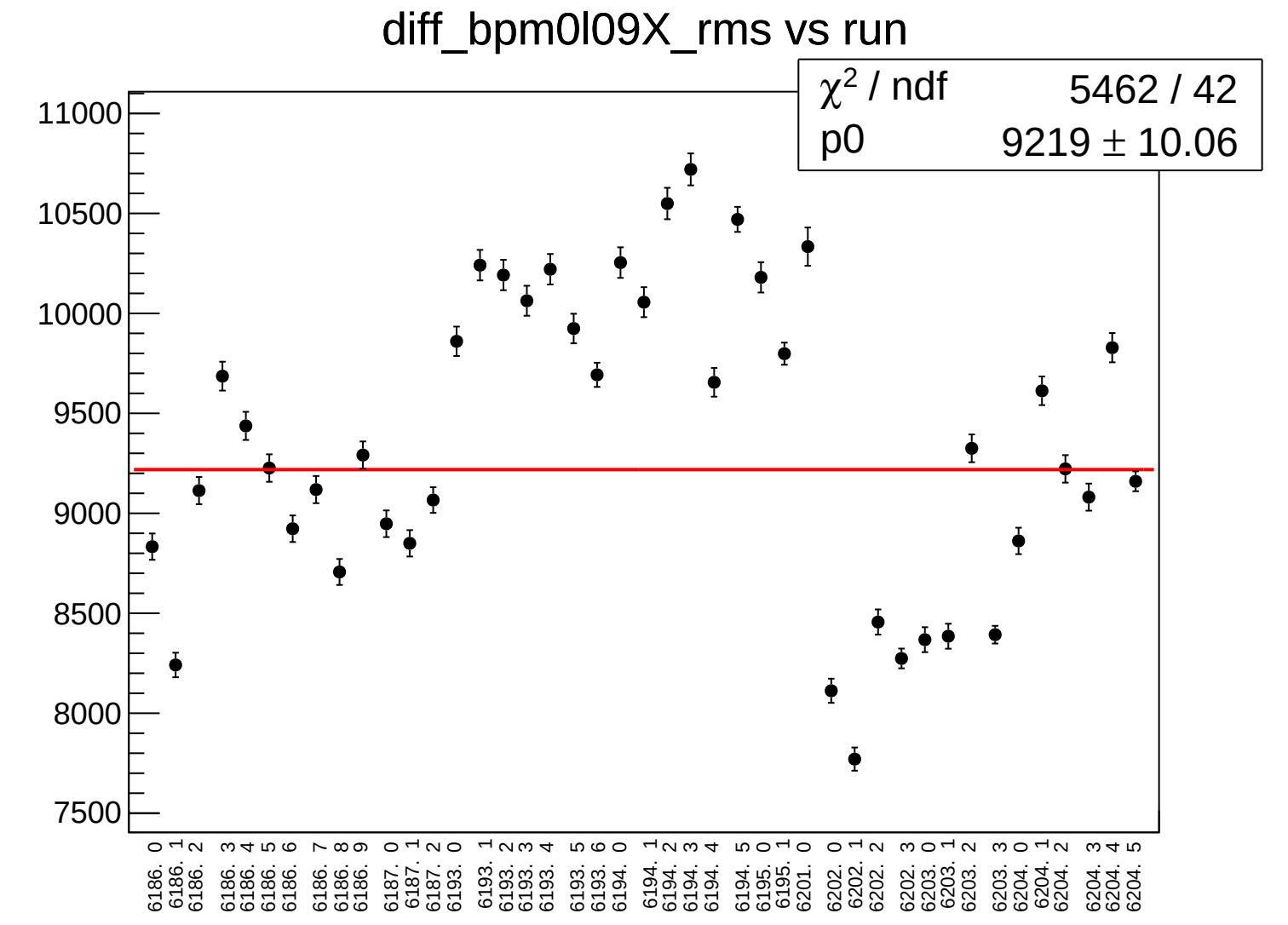

diff_bpm0l08Y_mean vs run
χ² / ndf 46.28 / 42
p0 9.463 ± 1.847
50
40
30
20
10
0
−10
−20
−30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −79.16
Std Dev 0
2
1
0
−1
−2

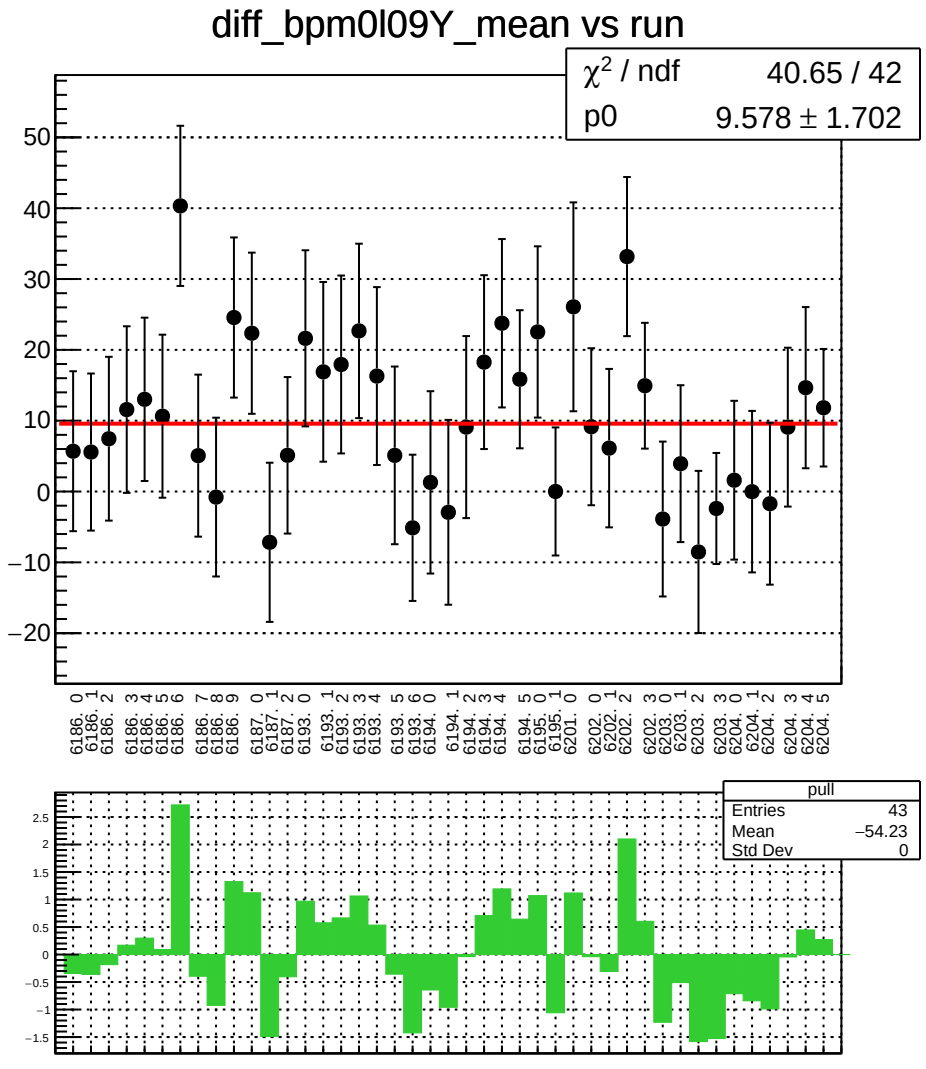

pull1D
Entries 43
Mean 0.03851
Std Dev 1.037
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

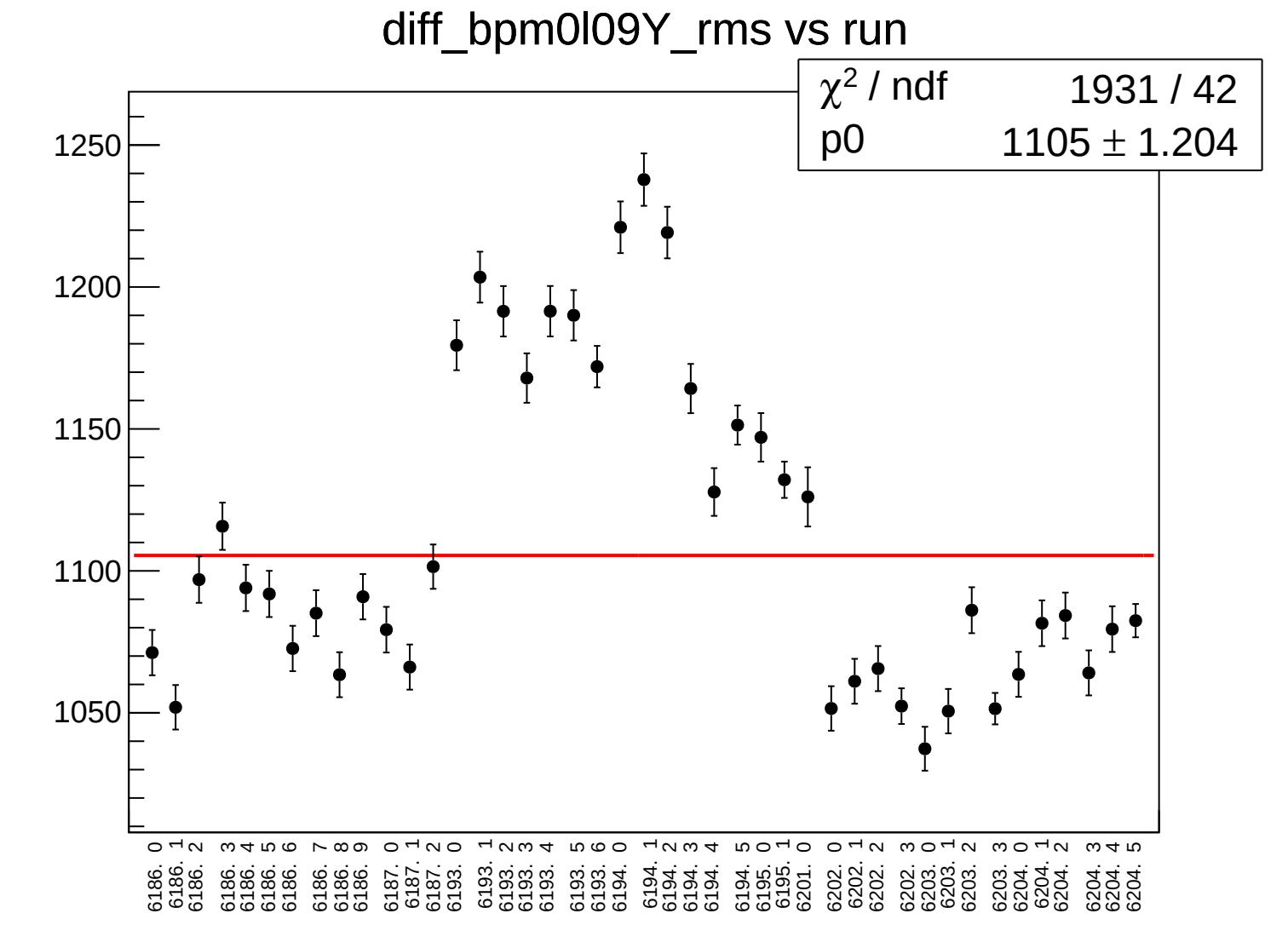

diff_bpm0l08Y_rms vs run
χ² / ndf 1789 / 42
p0 1199 ± 1.306
1350
1300
1250
1200
1150
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

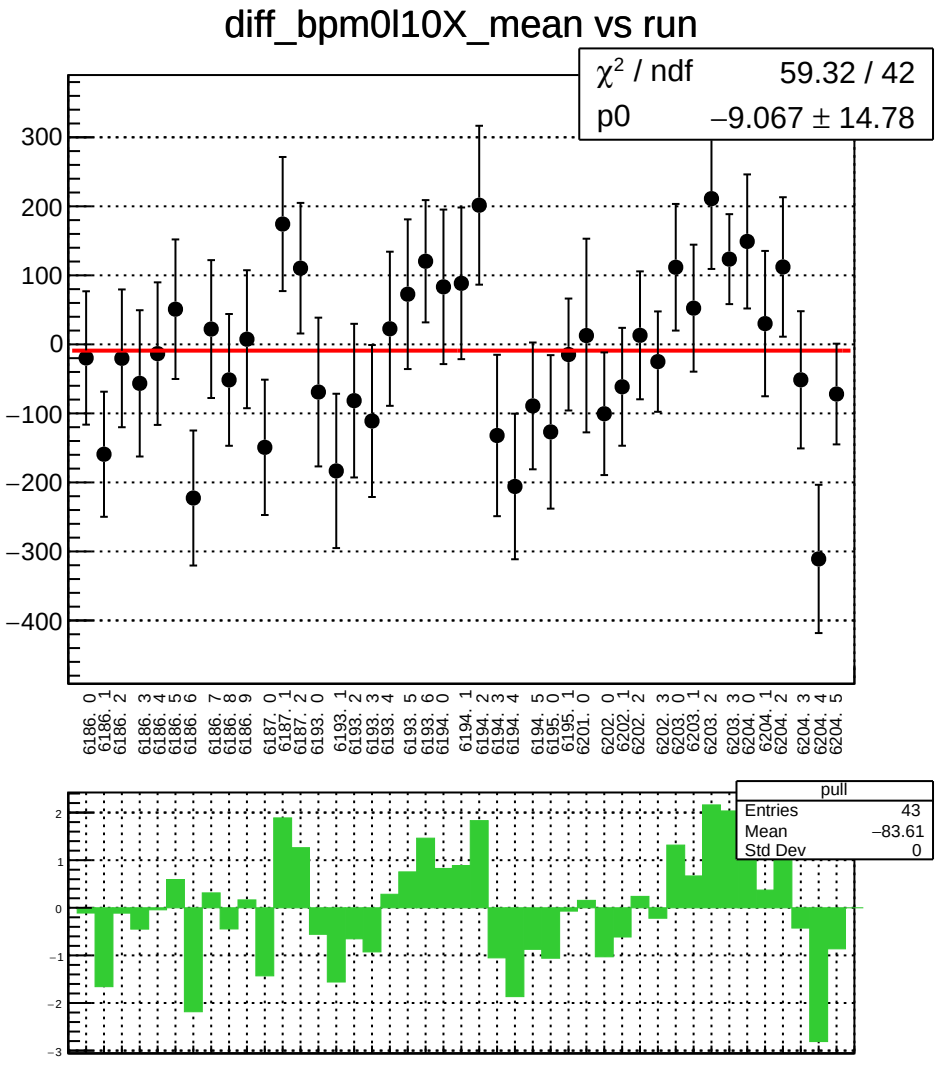

diff_bpm0l09X_mean vs run
χ² / ndf 57.67 / 42
p0 −9.421± 14.23
300
200
100
0
−100
−200
−300
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −73.22
Std Dev 0
2
1
0
−1
−2

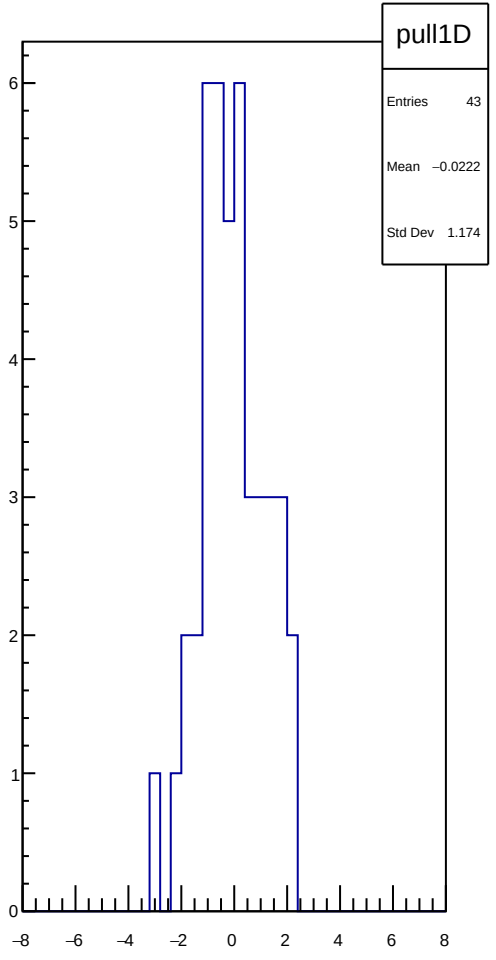

pull1D
Entries 43
Mean −0.02496
Std Dev 1.158
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

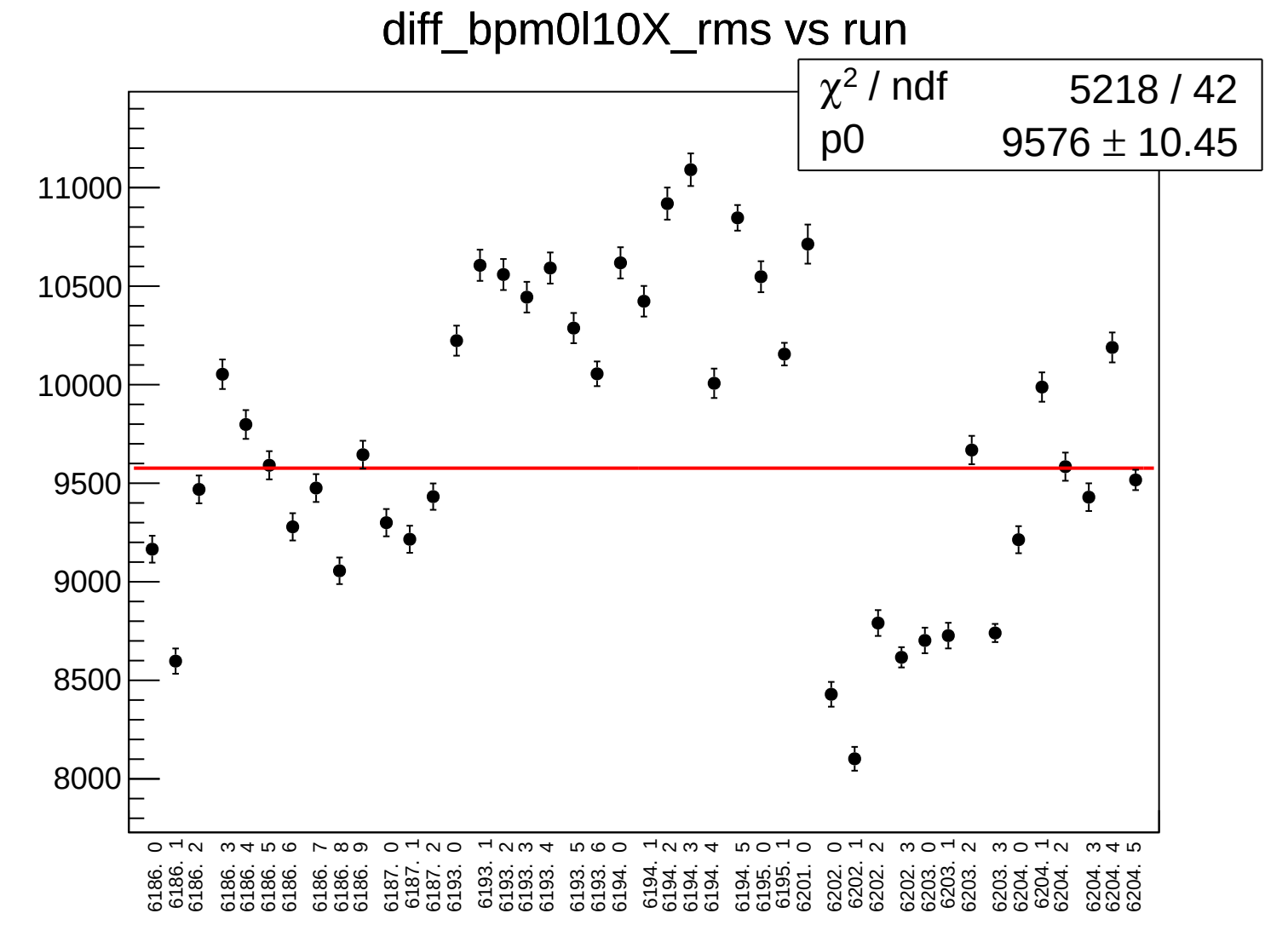

diff_bpm0l09X_rms vs run
χ² / ndf 5462 / 42
p0 9219 ± 10.06
11000
10500
10000
9500
9000
8500
8000
7500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

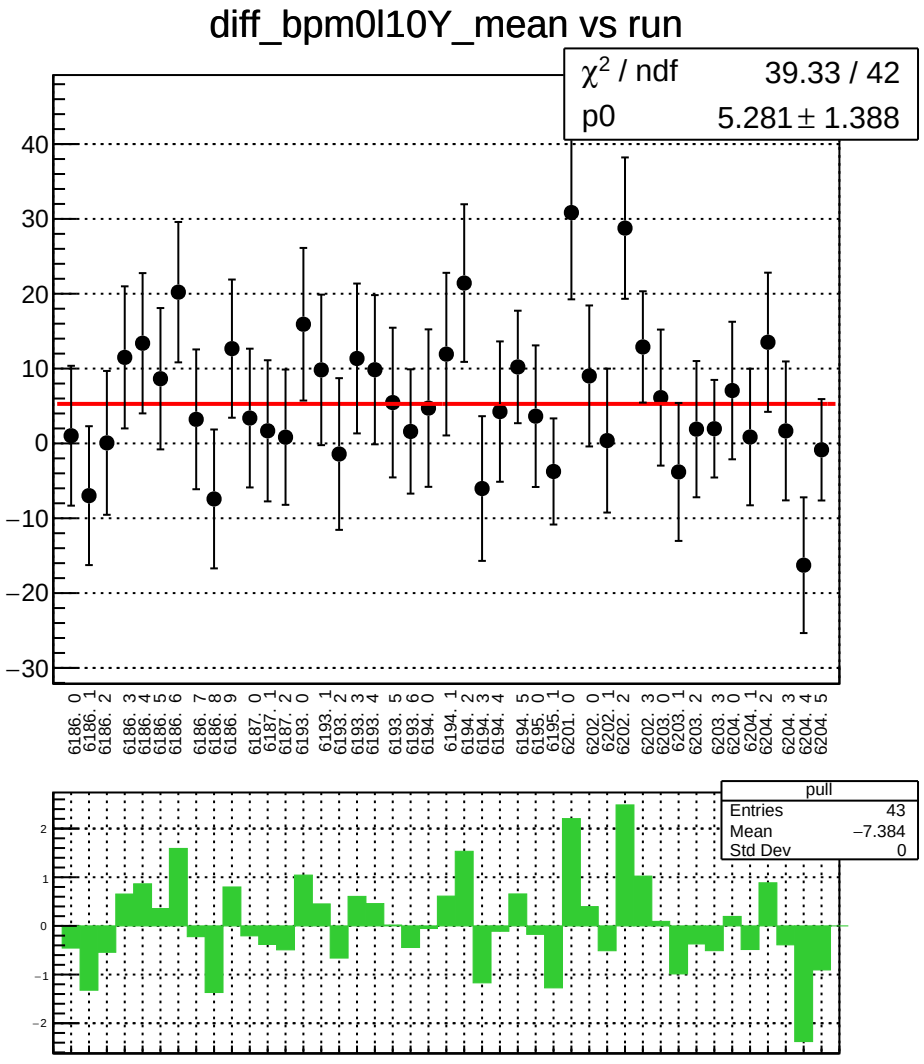

diff_bpm0l09Y_mean vs run
χ^2 / ndf 40.65 / 42
p0 9.578 ± 1.702
pull
Entries 43
Mean −54.23
Std Dev 0
pull1D
Entries 43
Mean 0.03087
Std Dev 0.9718

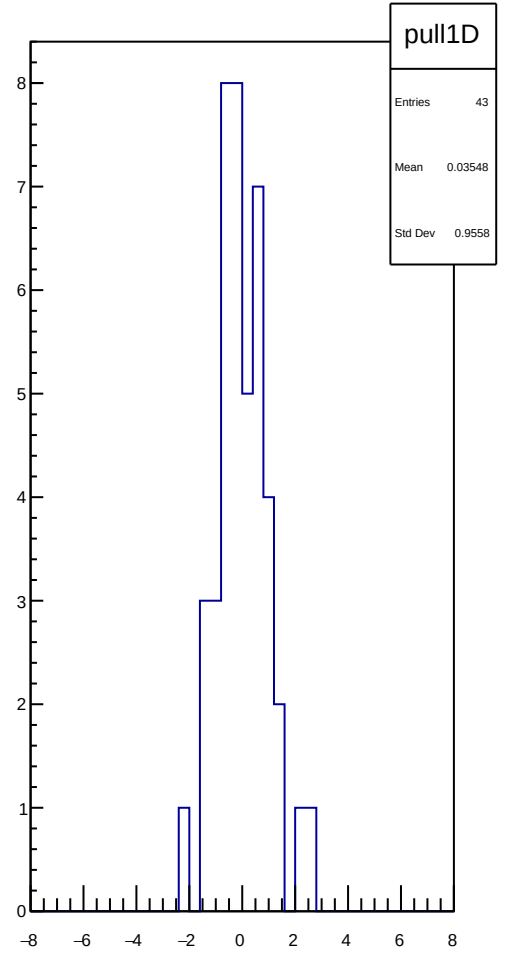

diff_bpm0l09Y_rms vs run
χ² / ndf 1931 / 42
p0 1105 ± 1.204
1250
1200
1150
1100
1050
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

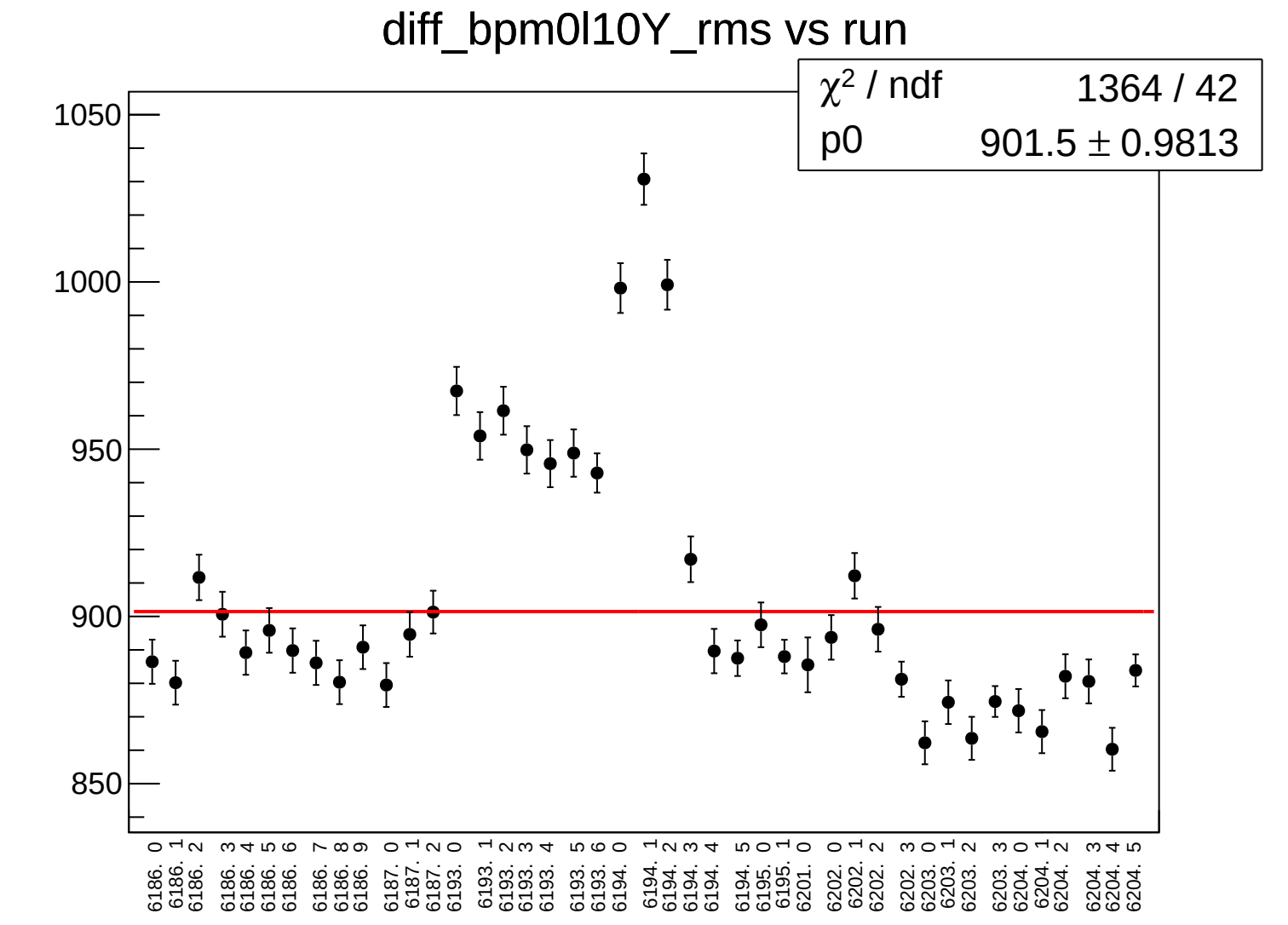

diff_bpm0l10X_mean vs run
χ² / ndf 59.32 / 42
p0 −9.067 ± 14.78
pull
Entries 43
Mean −83.61
Std Dev 0

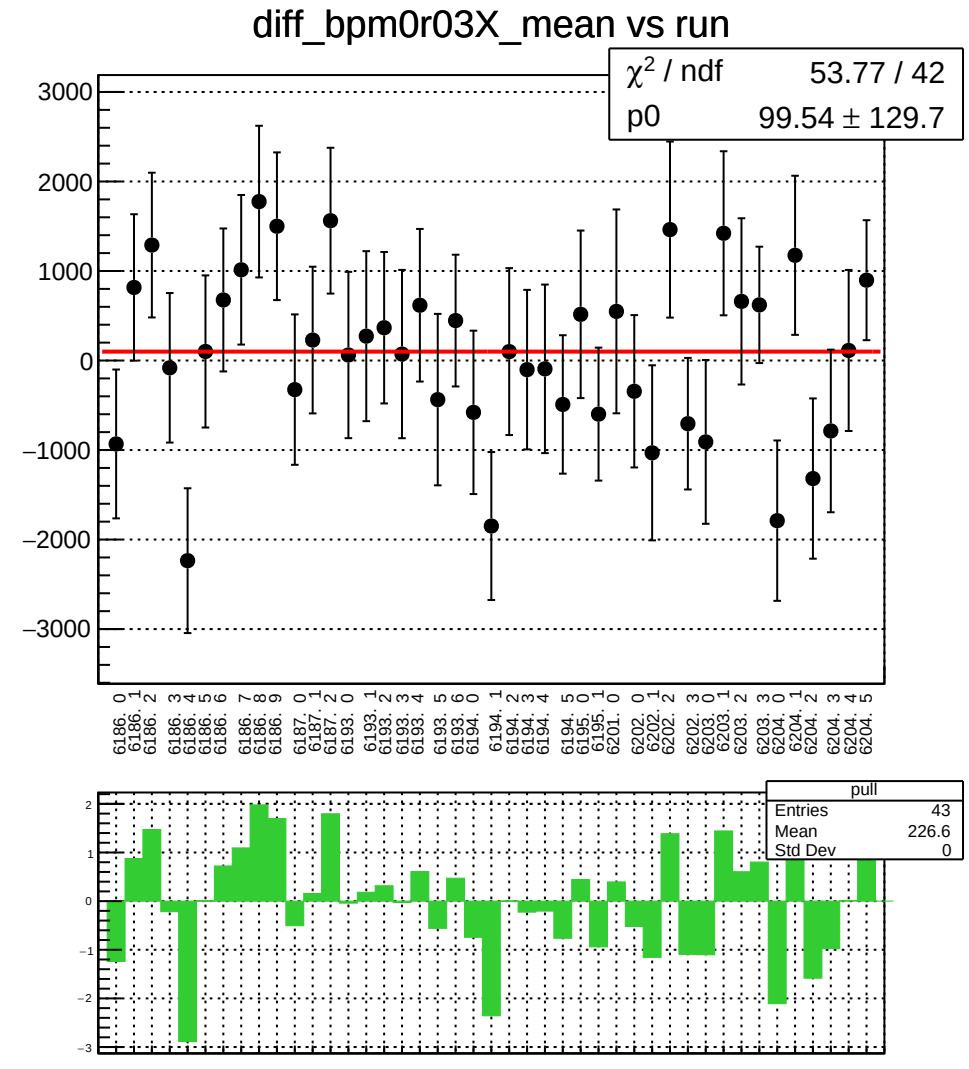

pull1D
Entries 43
Mean −0.0222
Std Dev 1.174

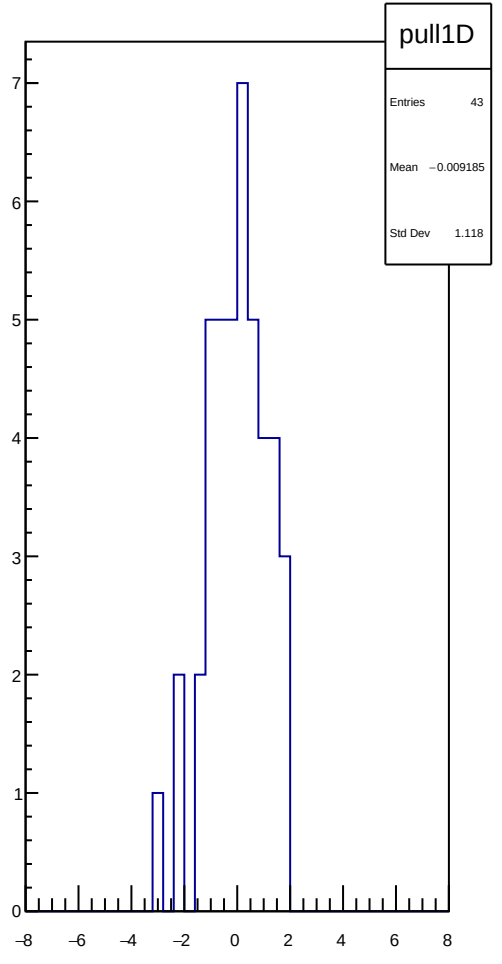

diff_bpm0l10X_rms vs run
χ² / ndf 5218 / 42
p0 9576 ± 10.45
11000
10500
10000
9500
9000
8500
8000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

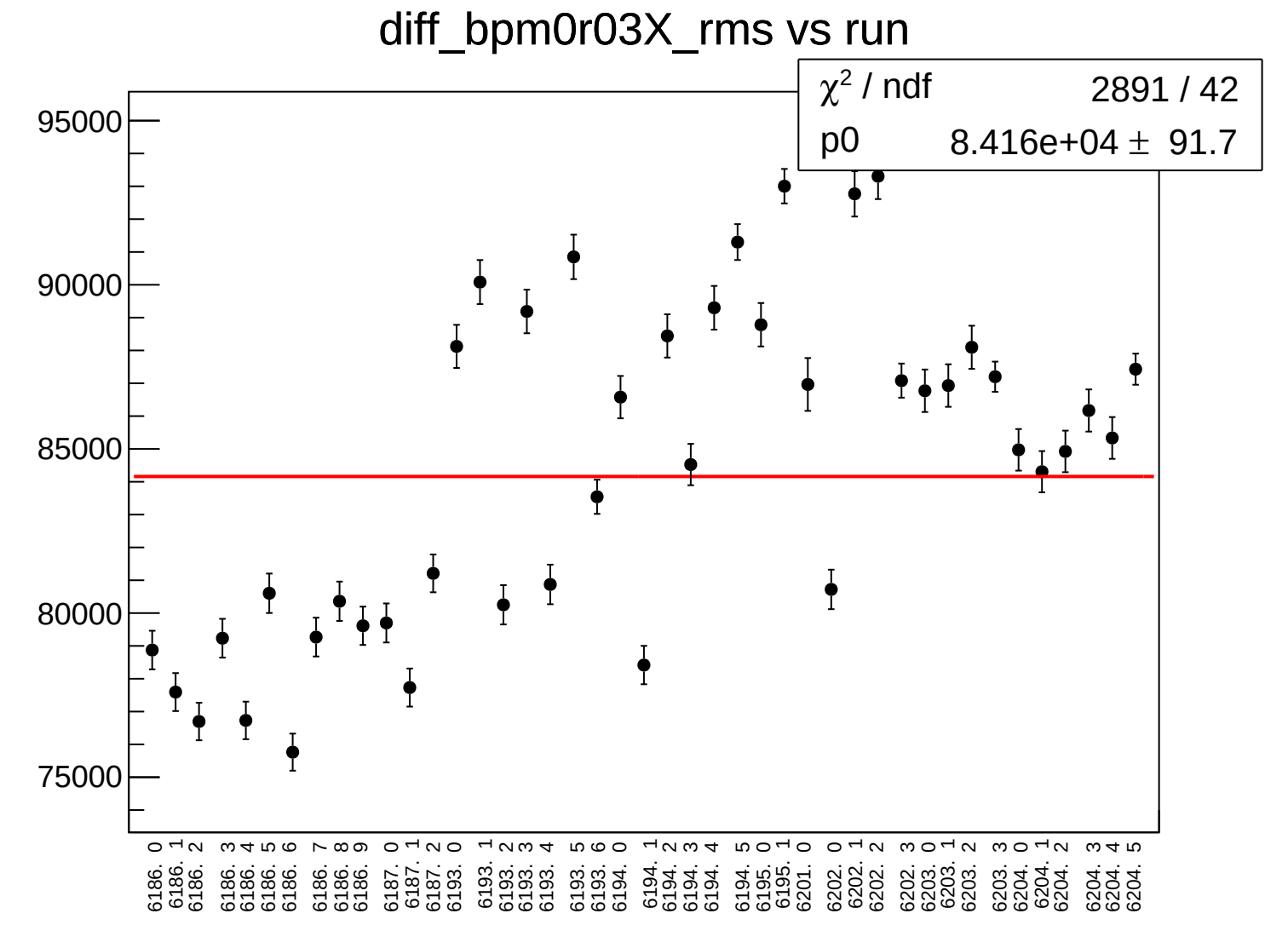

diff_bpm0l10Y_mean vs run
χ² / ndf 39.33 / 42
p0 5.281 ± 1.388
40
30
20
10
0
−10
−20
−30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −7.384
Std Dev 0
2
1
0
−1
−2

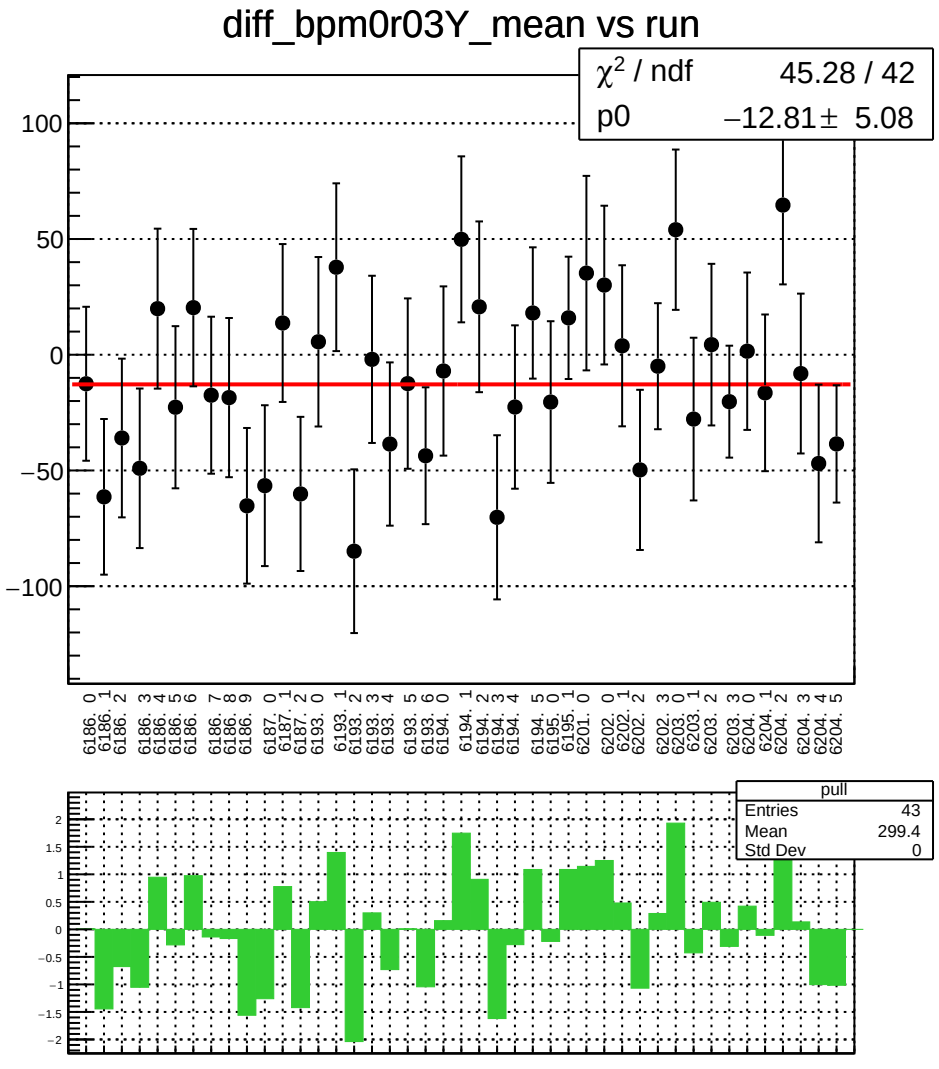

pull1D
Entries 43
Mean 0.03548
Std Dev 0.9558
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

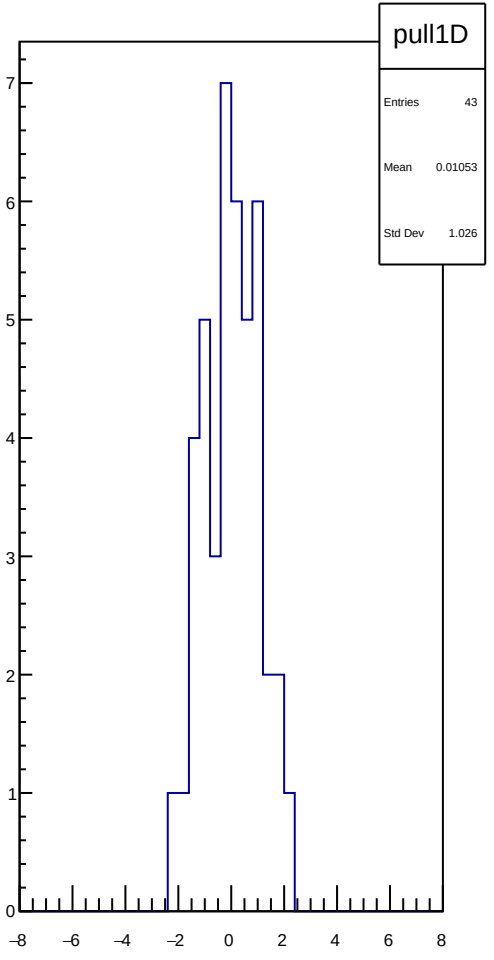

diff_bpm0l10Y_rms vs run
χ² / ndf 1364 / 42
p0 901.5 ± 0.9813
1050
1000
950
900
850
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

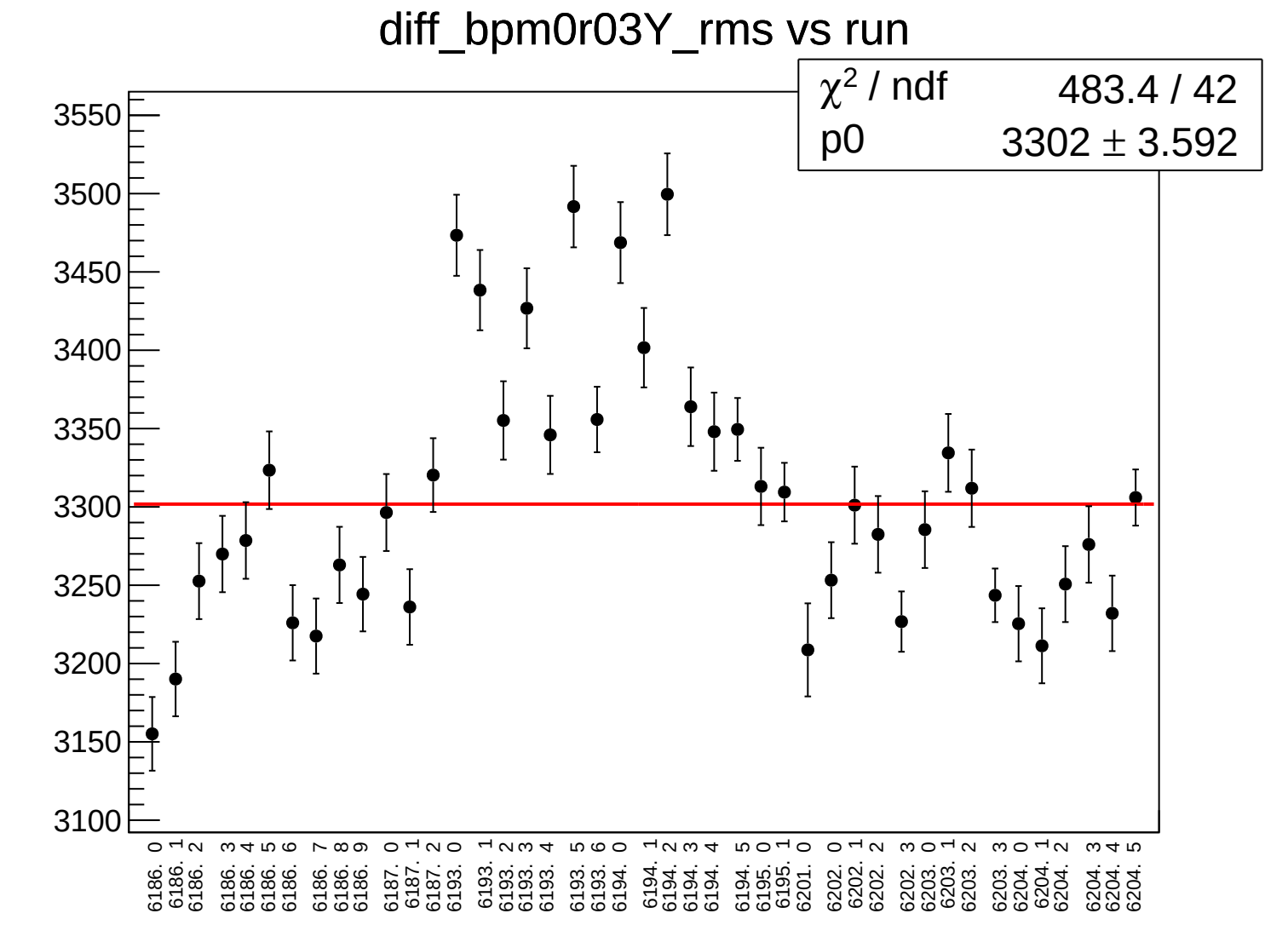

diff_bpm0r03X_mean vs run
χ² / ndf 53.77 / 42
p0 99.54 ± 129.7
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 226.6
Std Dev 0
2
1
0
−1
−2
−3

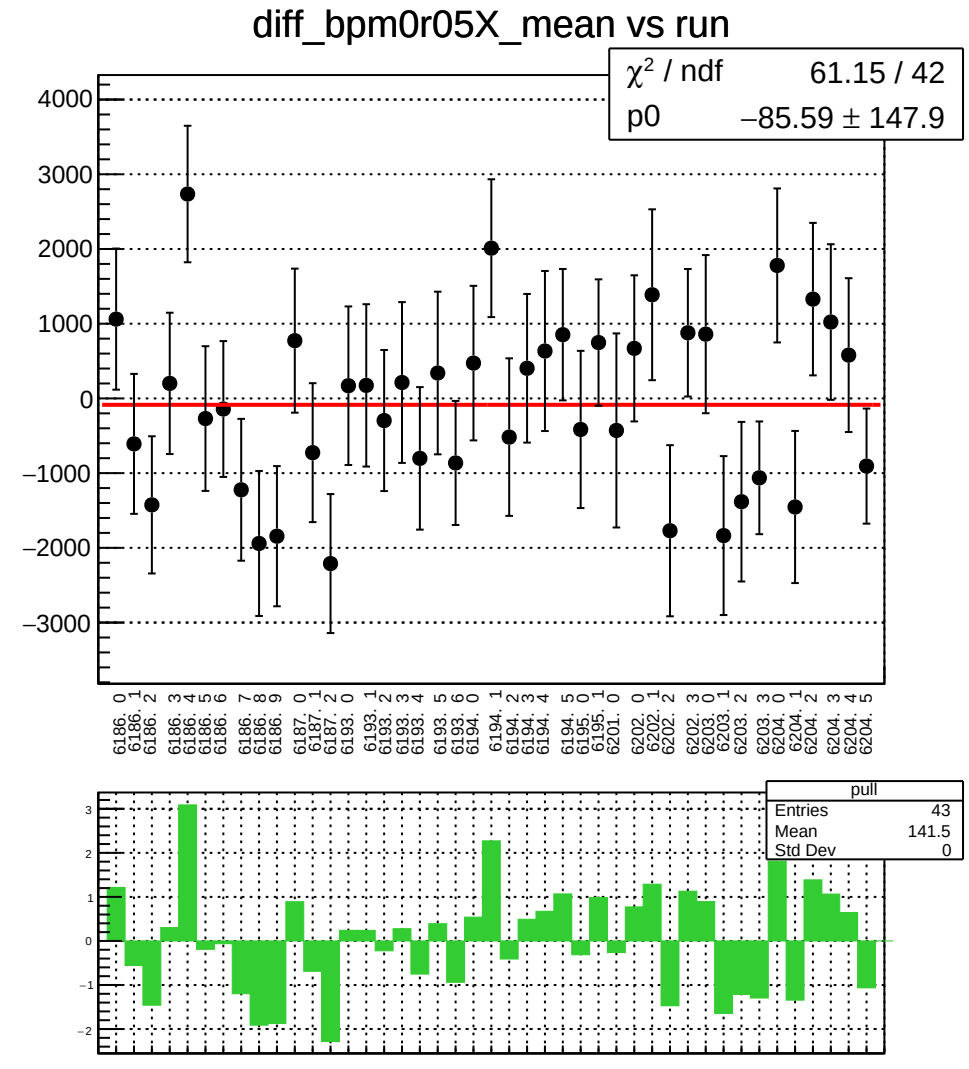

pull1D
Entries 43
Mean −0.009185
Std Dev 1.118
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

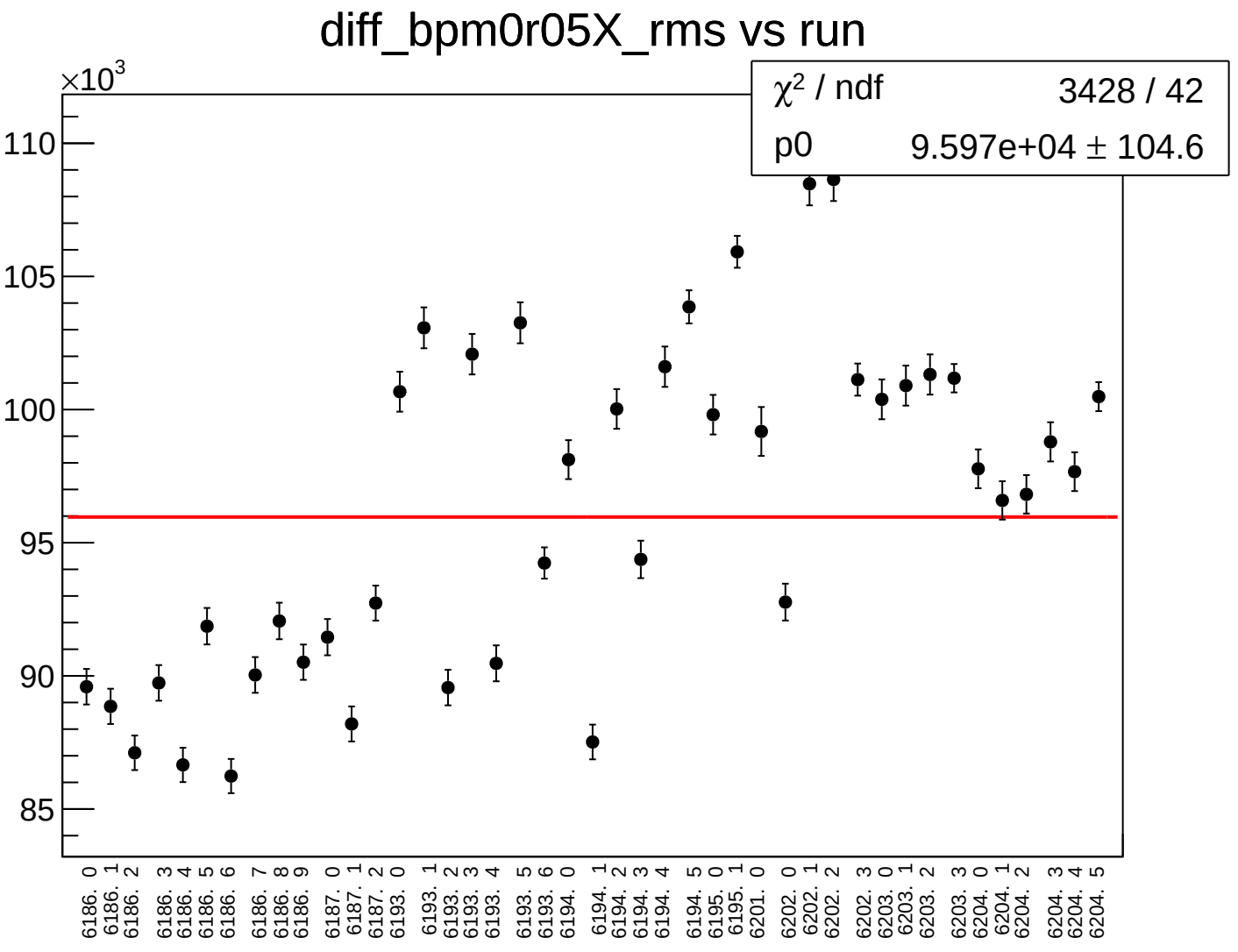

diff_bpm0r03X_rms vs run
χ² / ndf 2891 / 42
p0 8.416e+04 ± 91.7
95000
90000
85000
80000
75000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

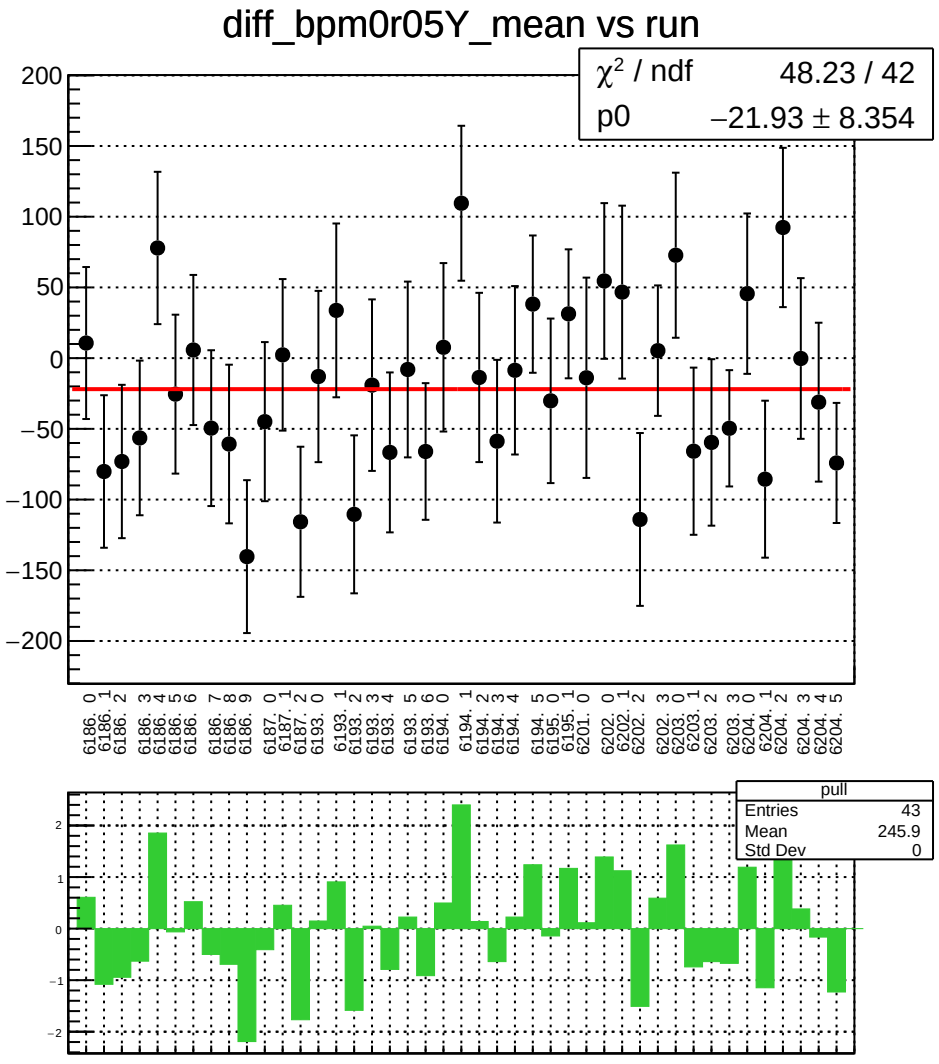

diff_bpm0r03Y_mean vs run
χ² / ndf 45.28 / 42
p0 −12.81± 5.08
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 299.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

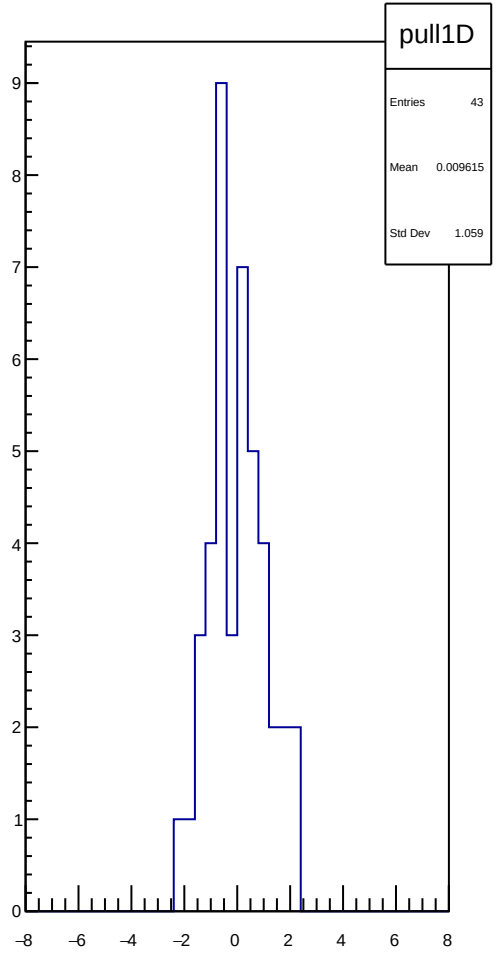

pull1D
Entries 43
Mean 0.01053
Std Dev 1.026
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

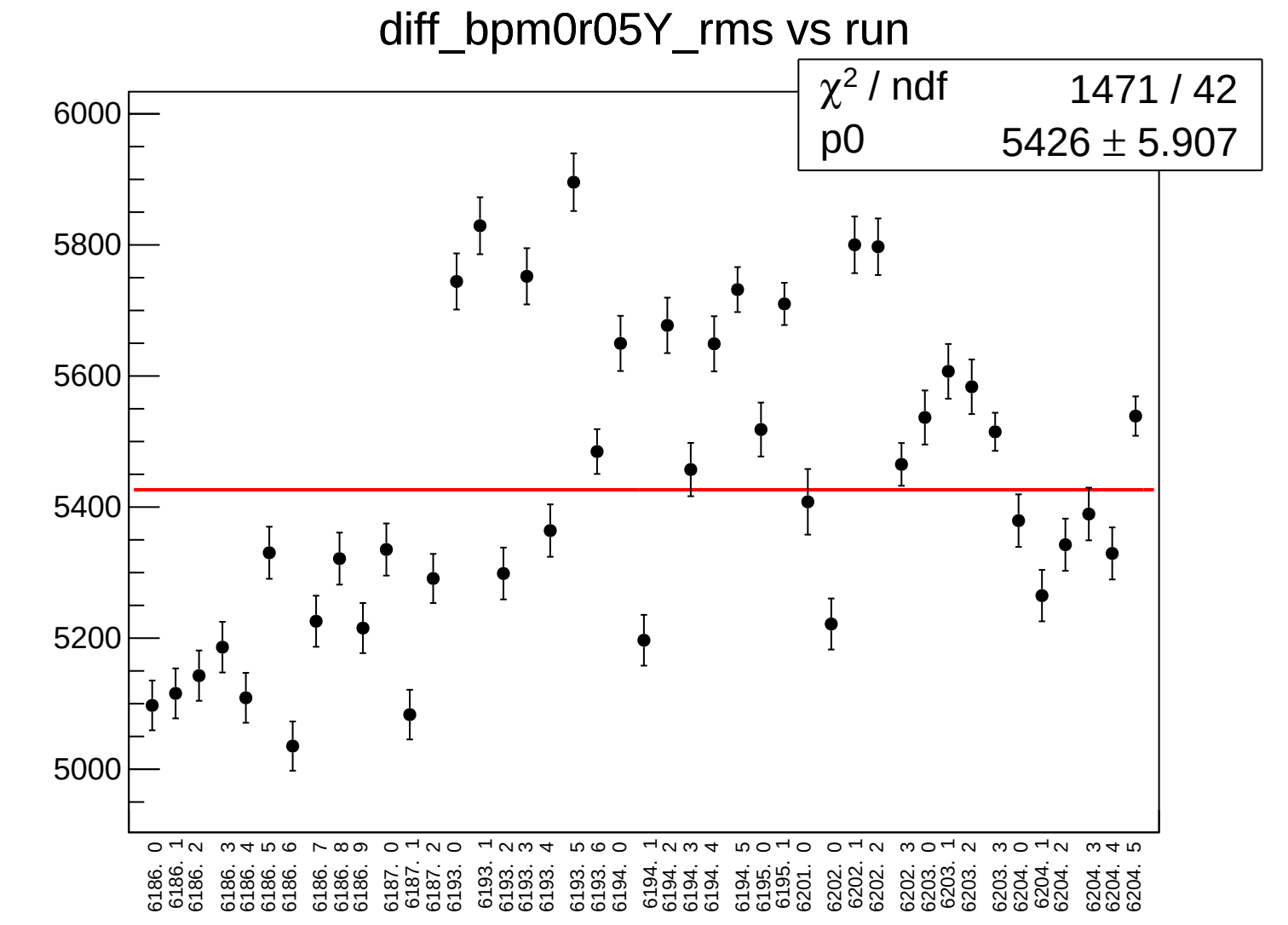

diff_bpm0r03Y_rms vs run
χ² / ndf 483.4 / 42
p0 3302 ± 3.592
3550
3500
3450
3400
3350
3300
3250
3200
3150
3100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

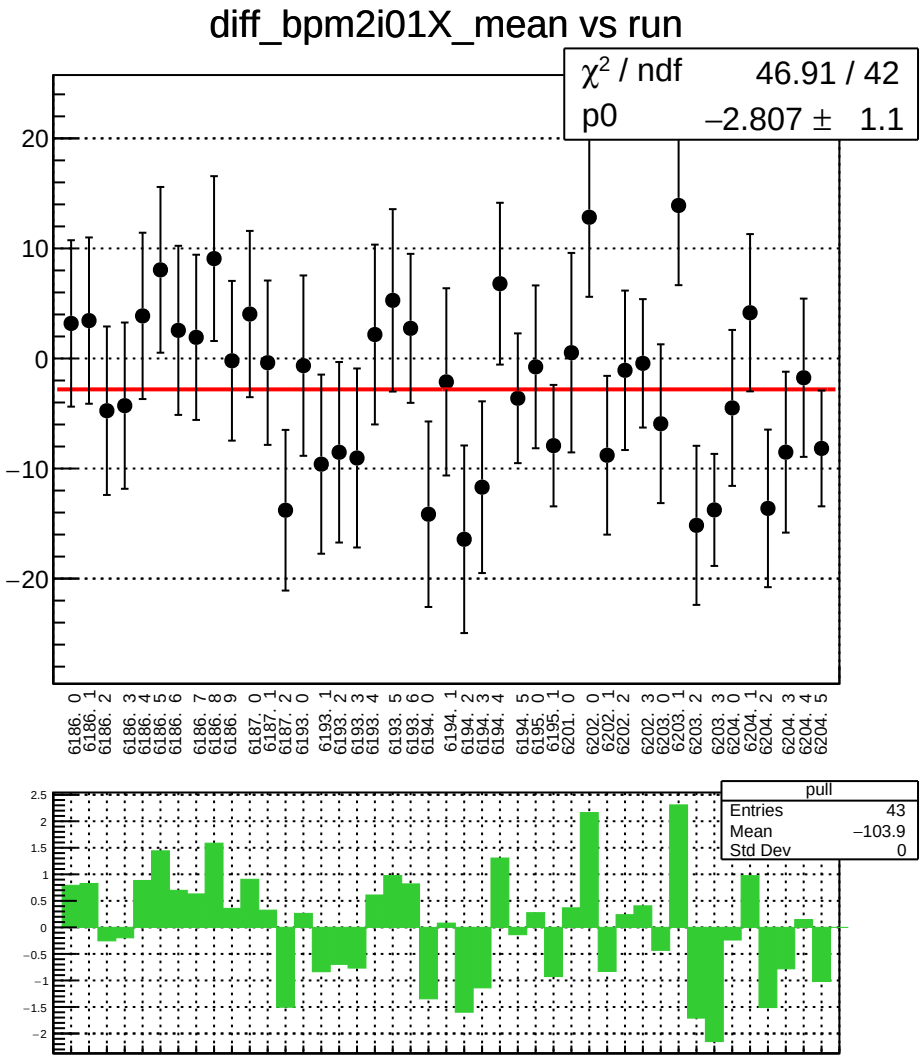

diff_bpm0r05X_mean vs run
χ² / ndf 61.15 / 42
p0 −85.59 ± 147.9
4000
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 141.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01168
Std Dev 1.192
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

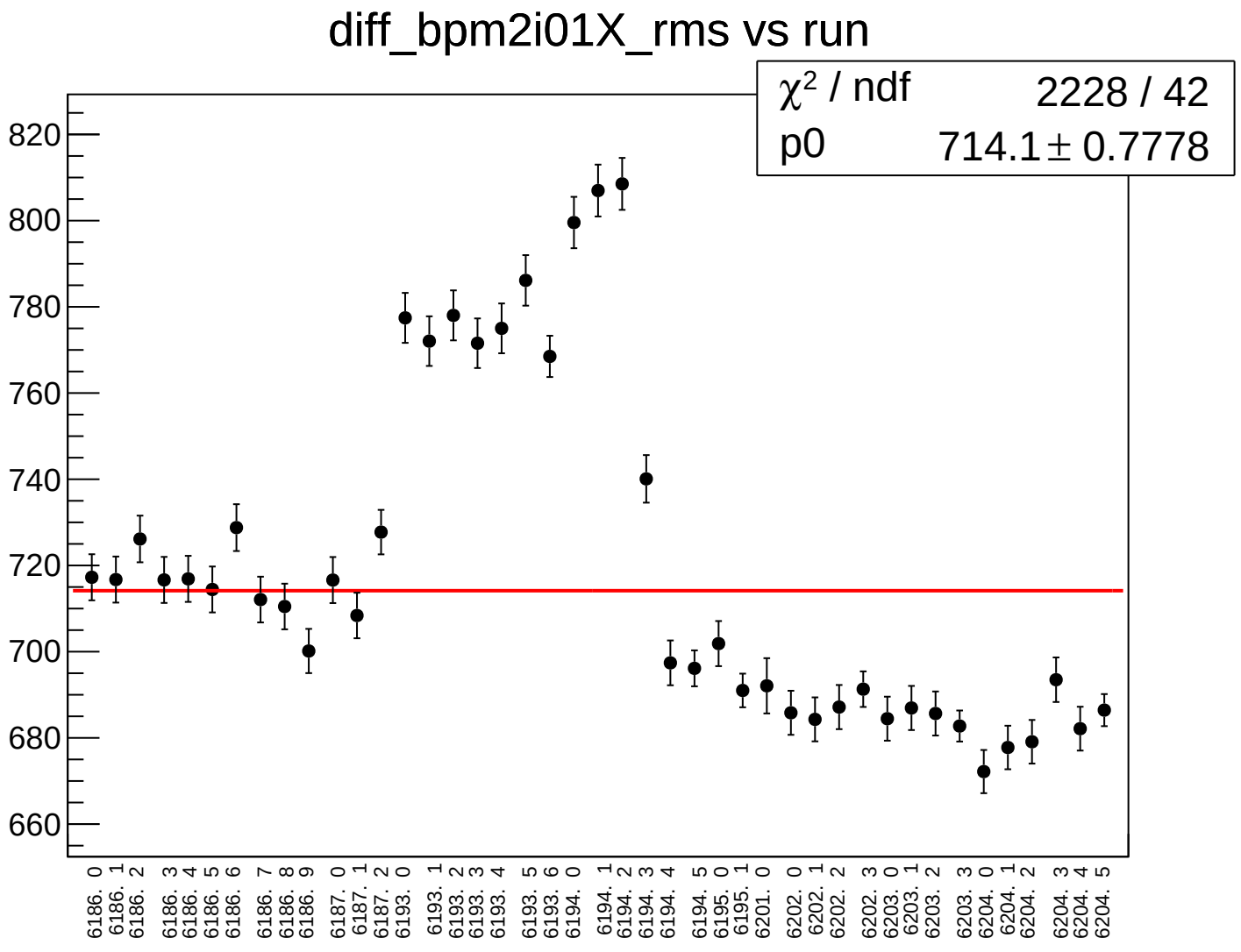

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 3428 / 42
p0 9.597e+04 ± 104.6
110
105
100
95
90
85
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

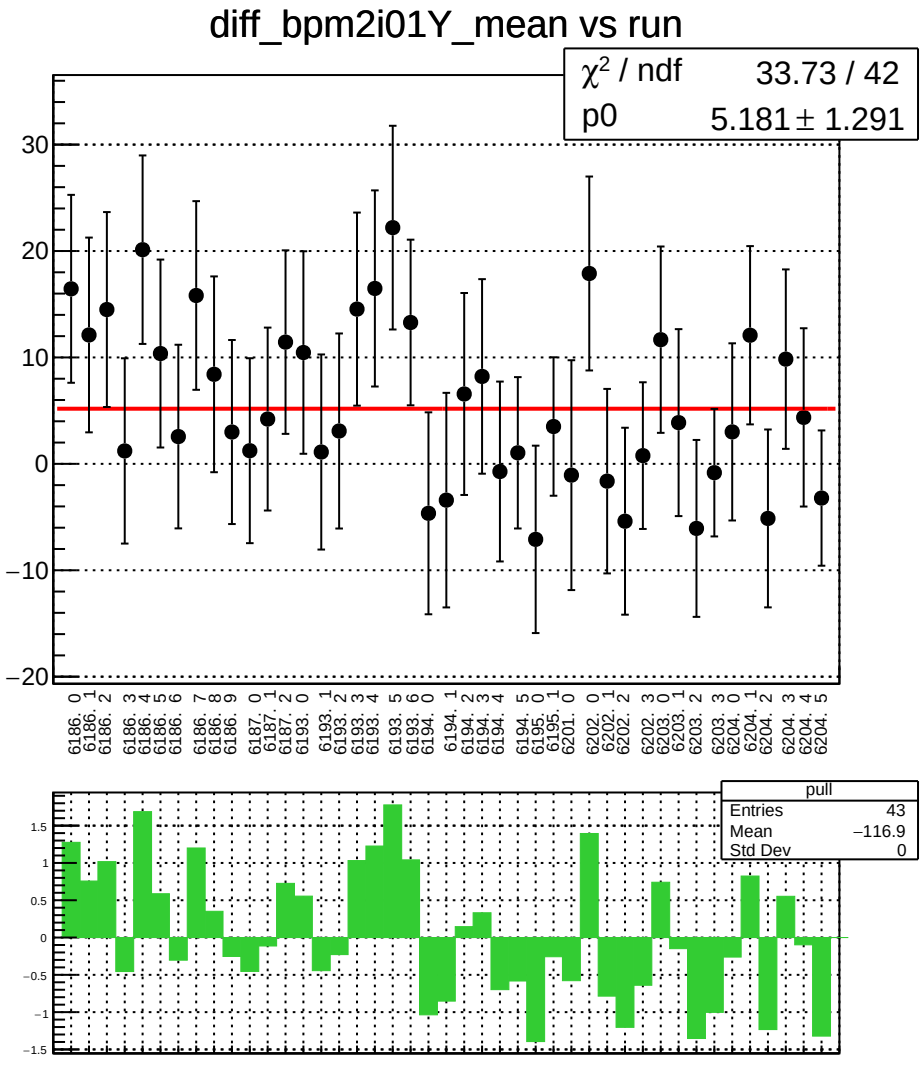

diff_bpm0r05Y_mean vs run
χ² / ndf 48.23 / 42
p0 −21.93 ± 8.354
200
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 245.9
Std Dev 0
2
1
0
−1
−2

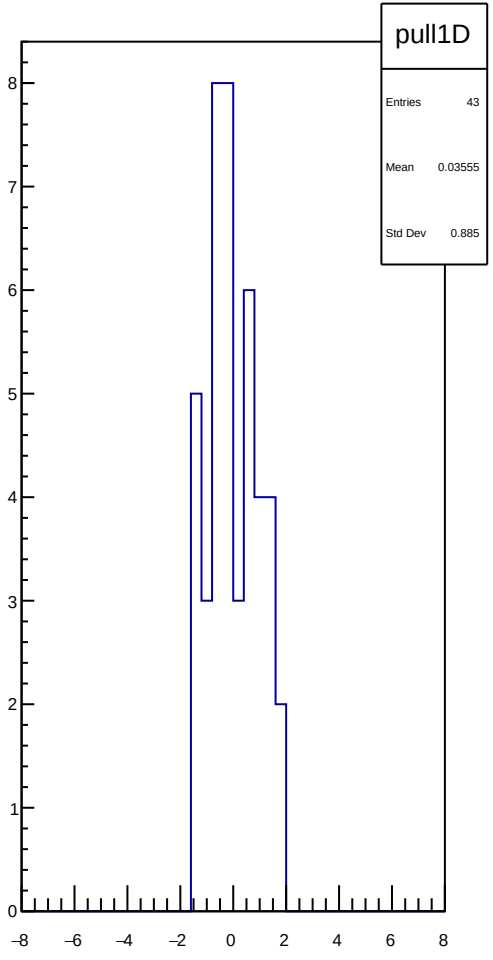

pull1D
Entries 43
Mean 0.009615
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

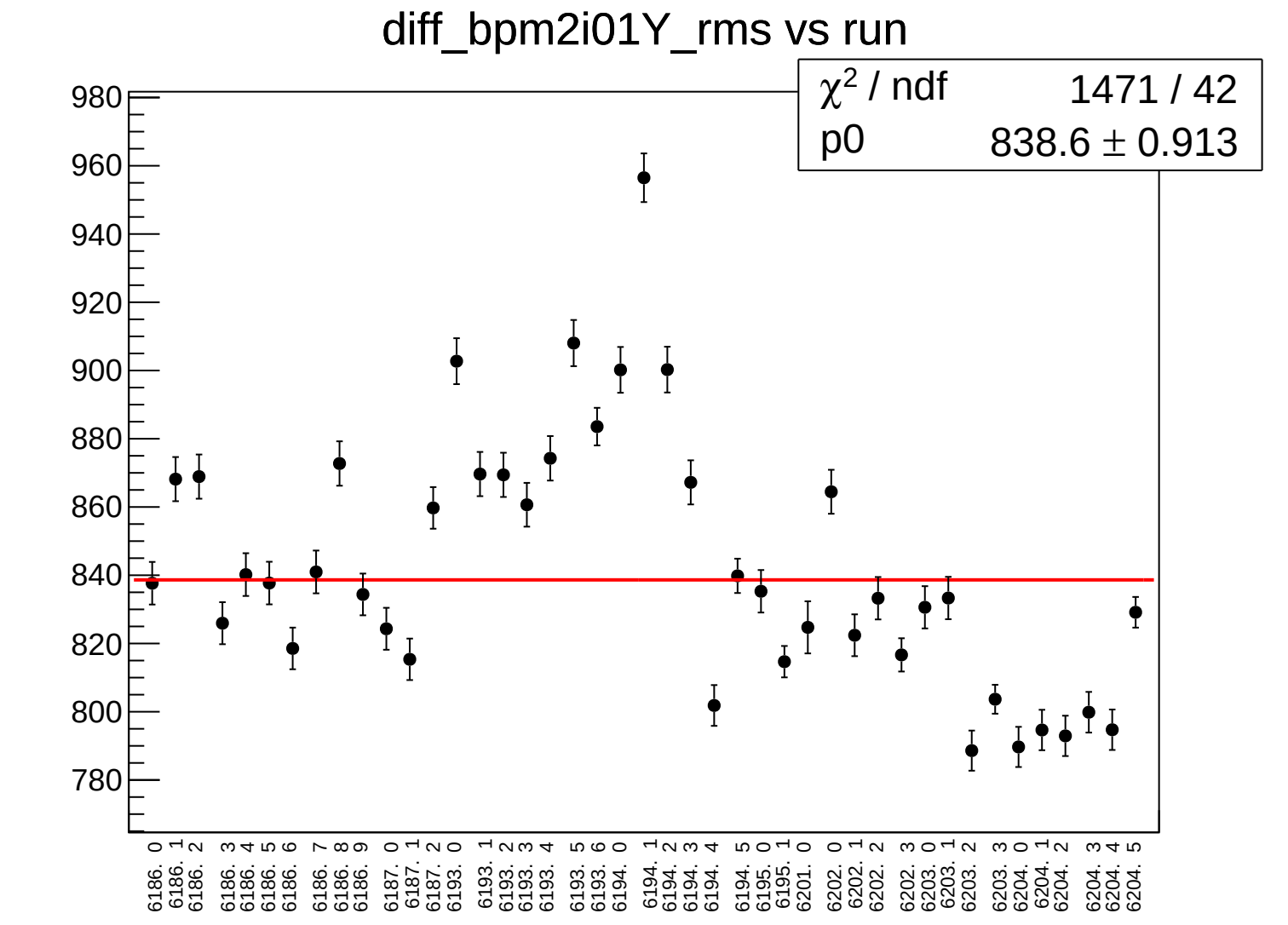

diff_bpm0r05Y_rms vs run
χ² / ndf 1471 / 42
p0 5426 ± 5.907
6000
5800
5600
5400
5200
5000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

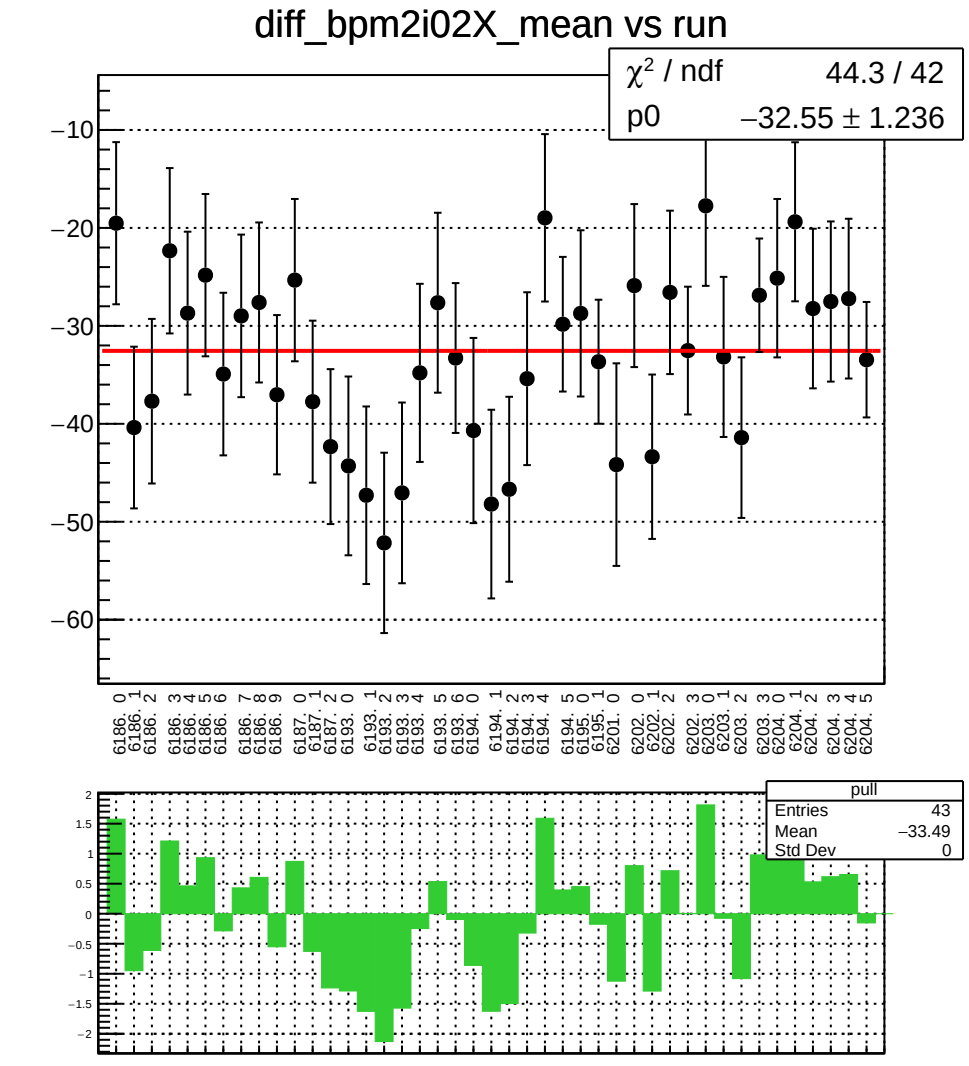

diff_bpm2i01X_mean vs run
χ² / ndf 46.91 / 42
p0 −2.807 ± 1.1
20
10
0
−10
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −103.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.03066
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

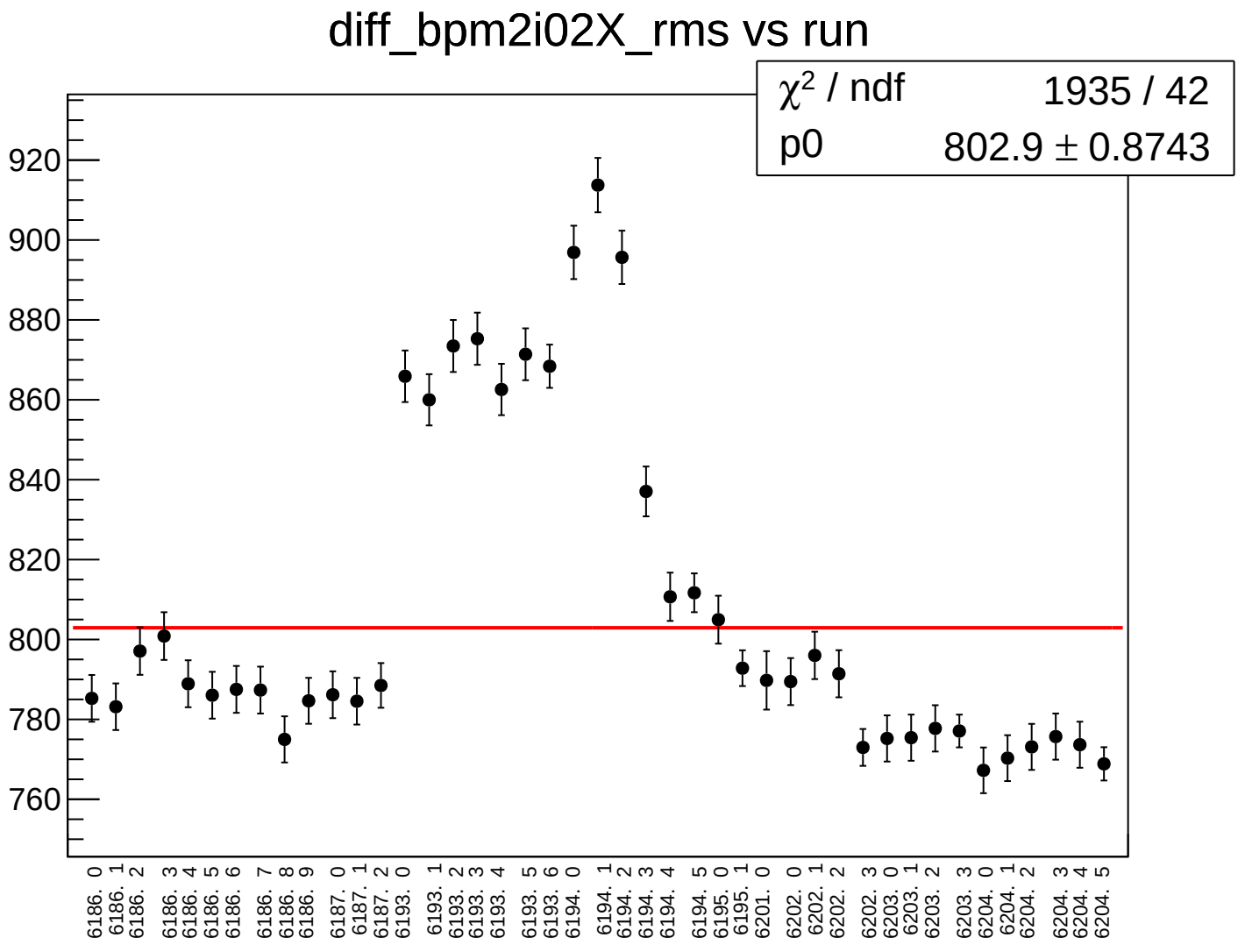

diff_bpm2i01X_rms vs run
χ² / ndf 2228 / 42
p0 714.1 ± 0.7778
820
800
780
760
740
720
700
680
660
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

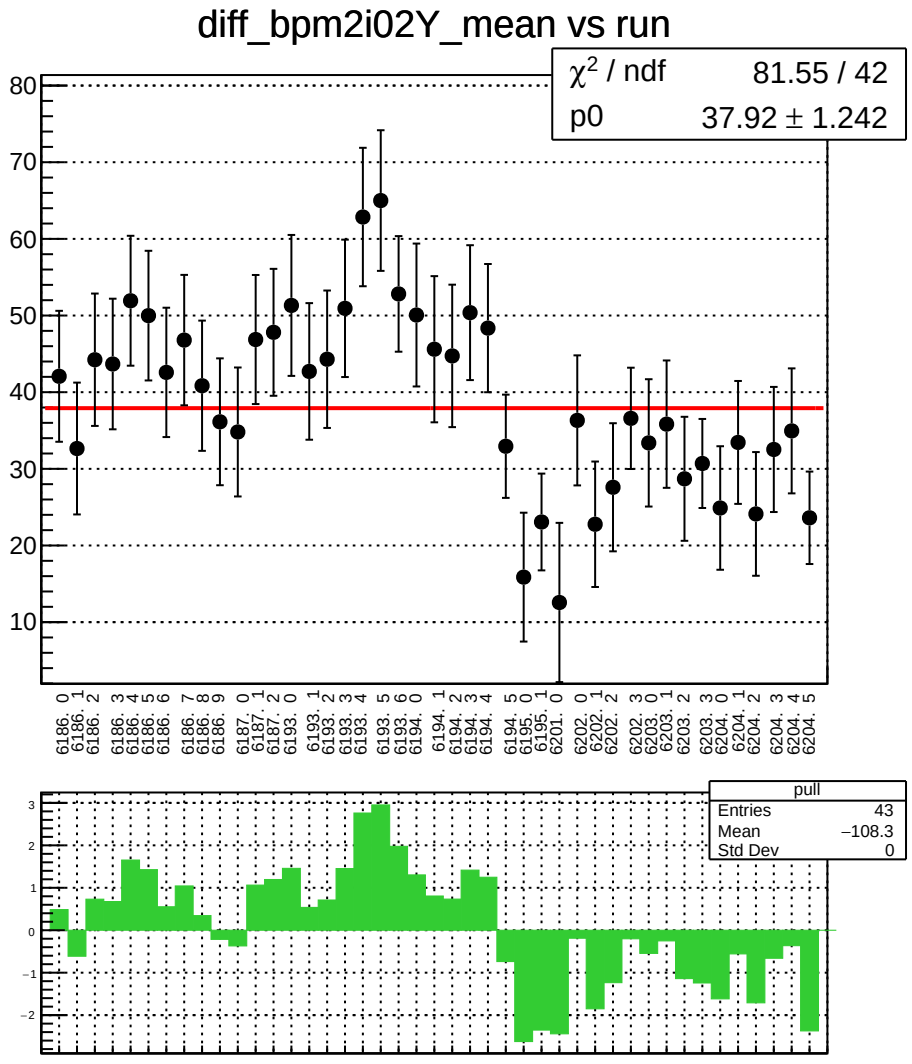

diff_bpm2i01Y_mean vs run
χ² / ndf 33.73 / 42
p0 5.181 ± 1.291
pull
Entries 43
Mean −116.9
Std Dev 0

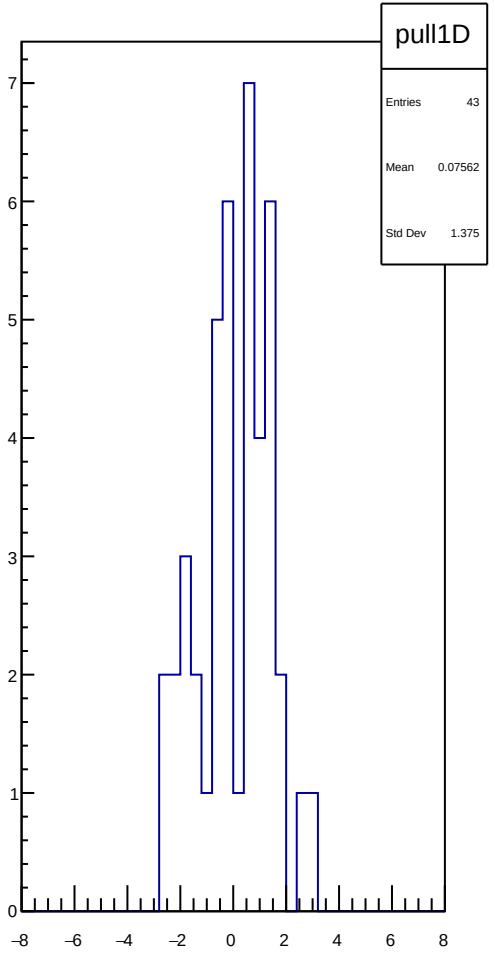

pull1D
Entries 43
Mean 0.03555
Std Dev 0.885

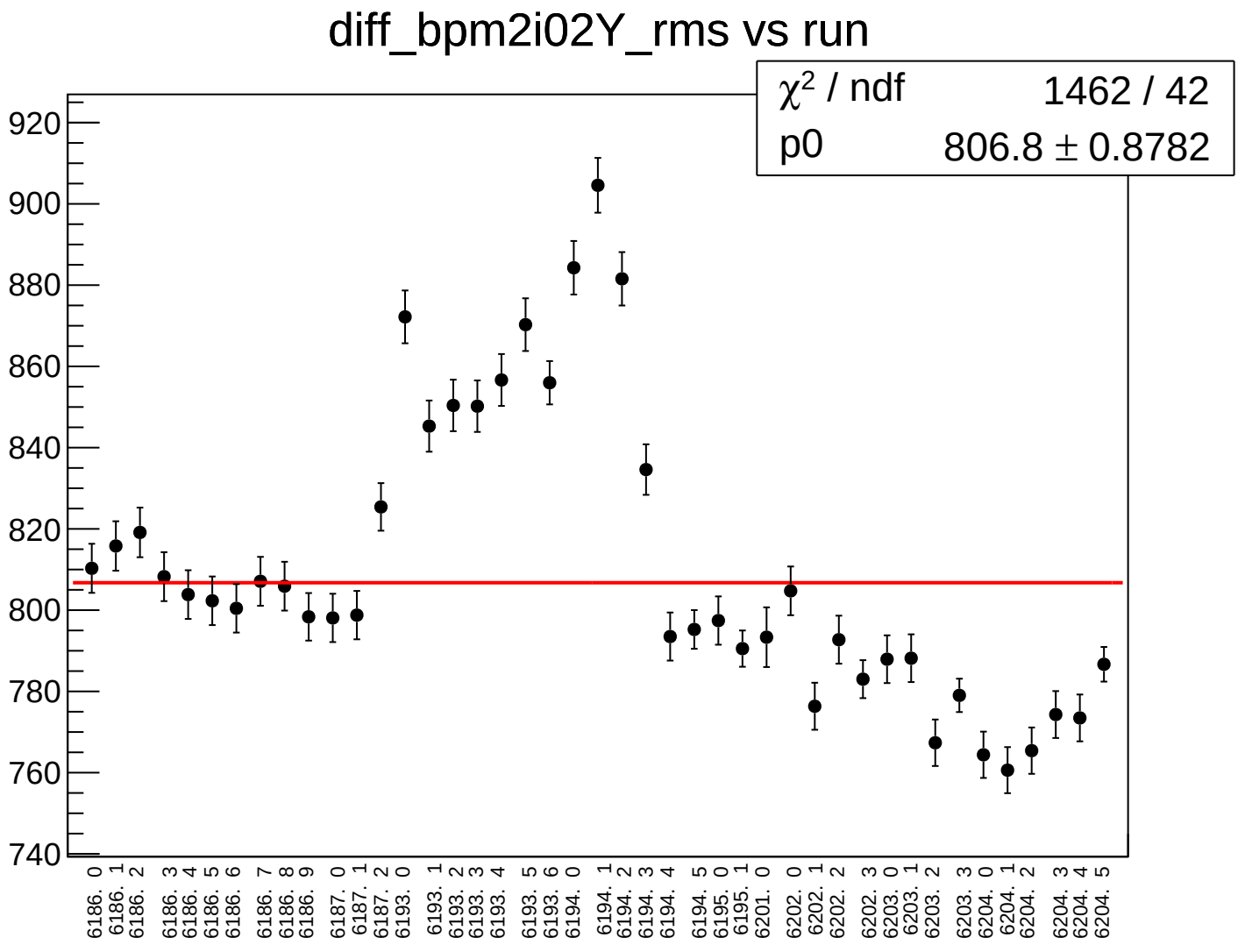

diff_bpm2i01Y_rms vs run
χ^2 / ndf 1471 / 42
p0 838.6 ± 0.913
980
960
940
920
900
880
860
840
820
800
780
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

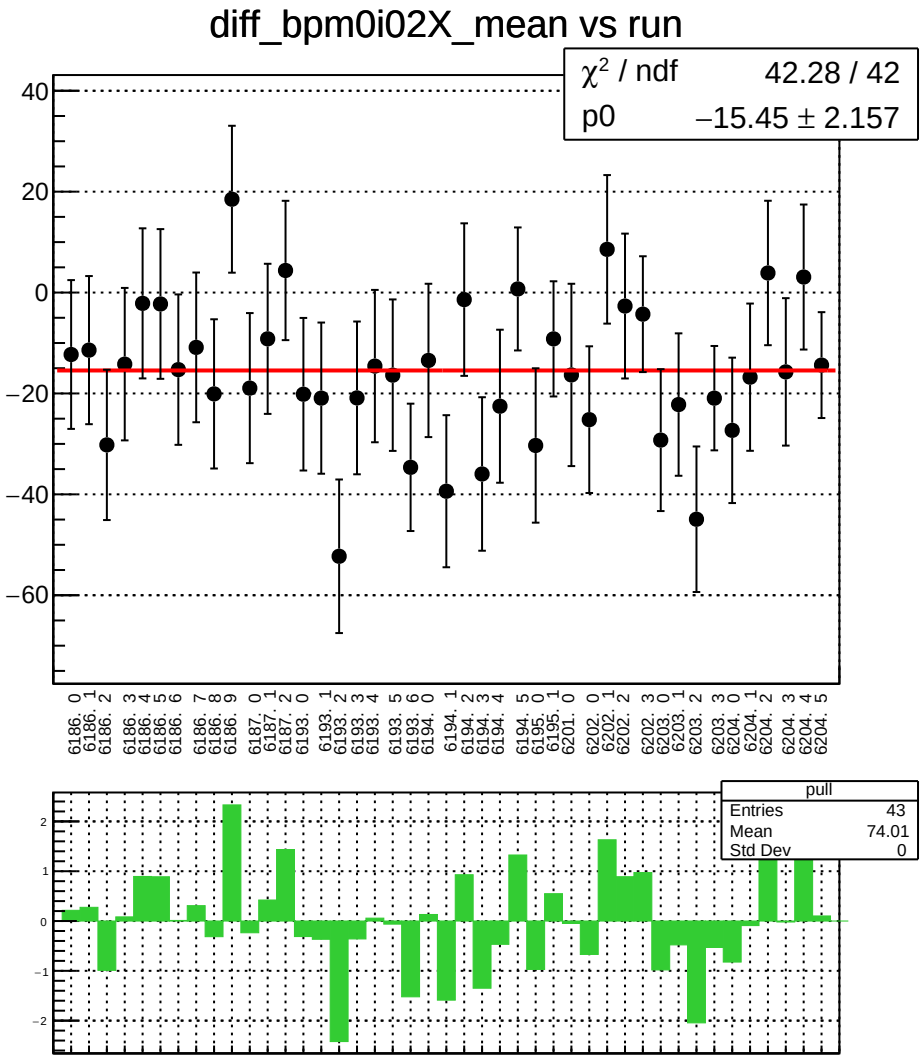

diff_bpm2i02X_mean vs run
χ² / ndf 44.3 / 42
p0 −32.55 ± 1.236
−10
−20
−30
−40
−50
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −33.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03966
Std Dev 1.014
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

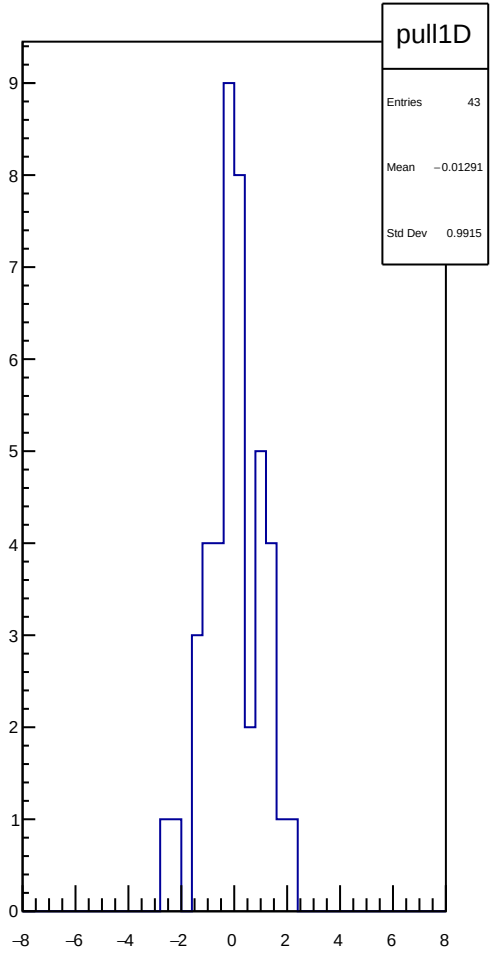

diff_bpm2i02X_rms vs run
χ² / ndf 1935 / 42
p0 802.9 ± 0.8743
920
900
880
860
840
820
800
780
760
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

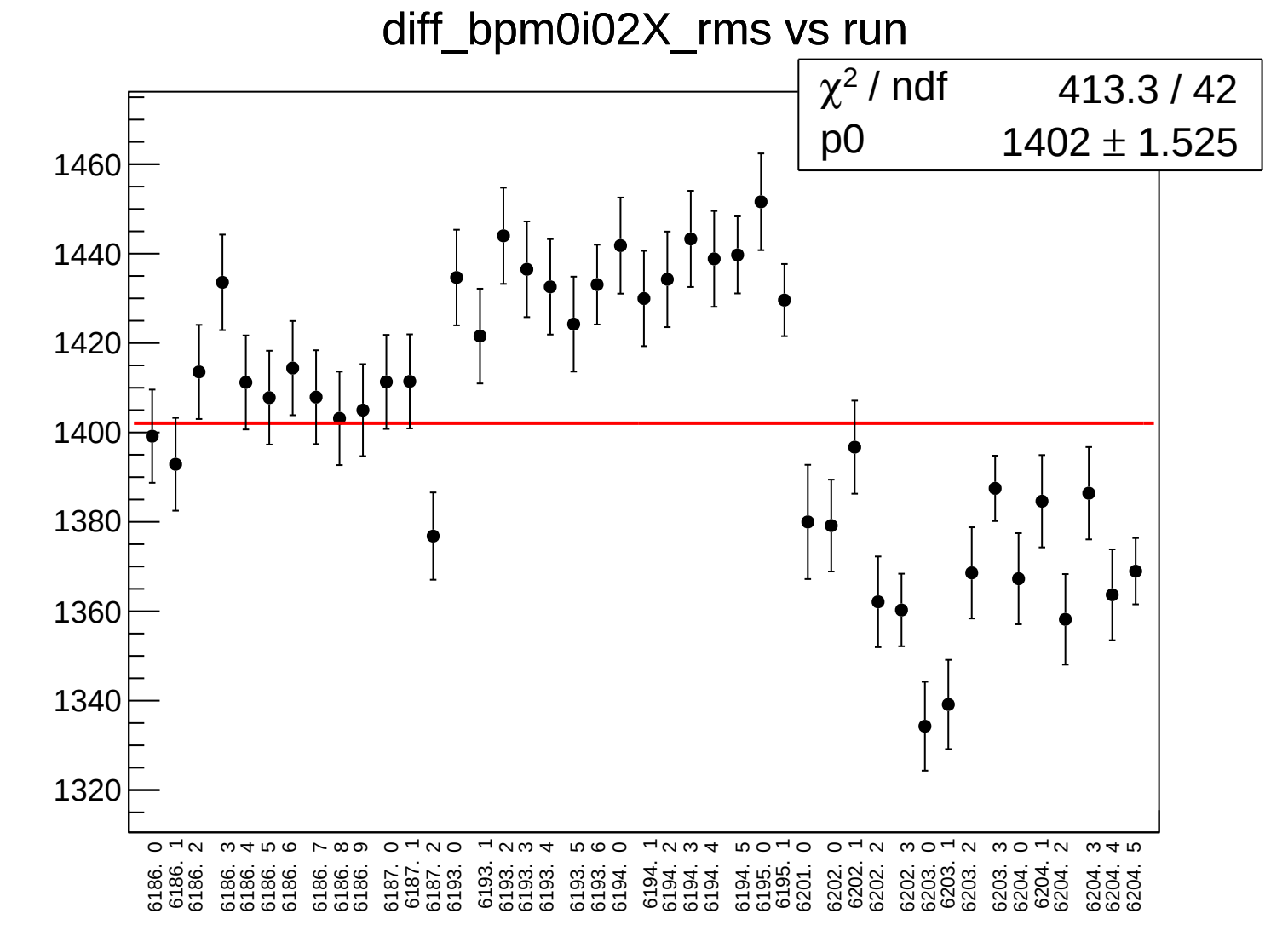

diff_bpm2i02Y_mean vs run
χ² / ndf 81.55 / 42
p0 37.92 ± 1.242
pull
Entries 43
Mean −108.3
Std Dev 0

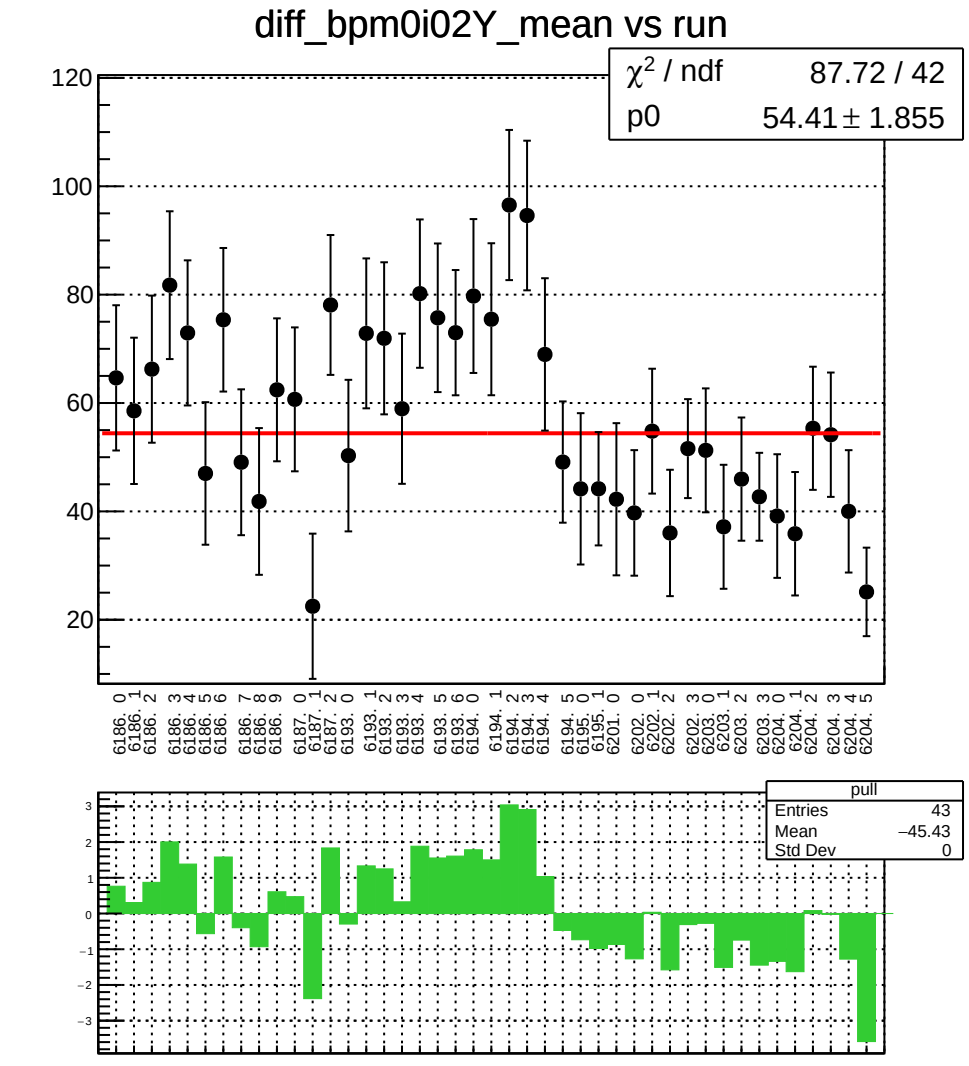

pull1D
Entries 43
Mean 0.07562
Std Dev 1.375

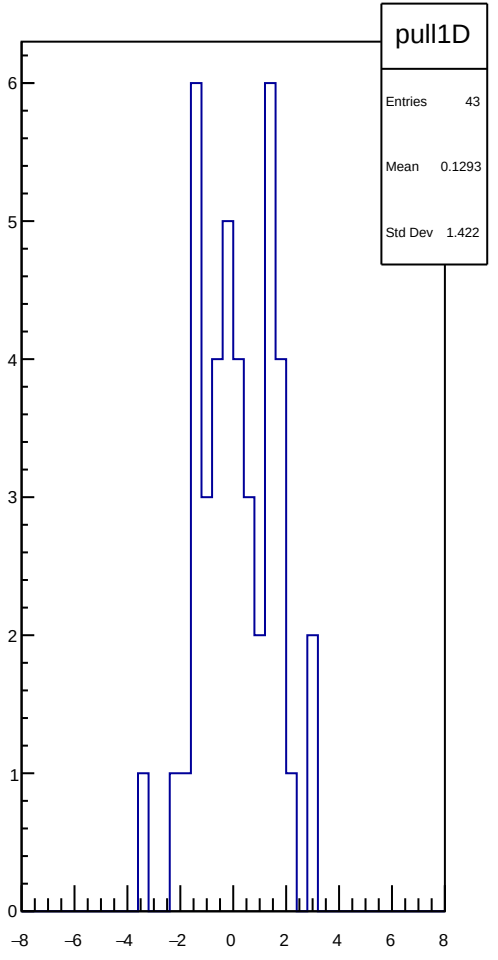

diff_bpm2i02Y_rms vs run
χ² / ndf 1462 / 42
p0 806.8 ± 0.8782
920
900
880
860
840
820
800
780
760
740
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

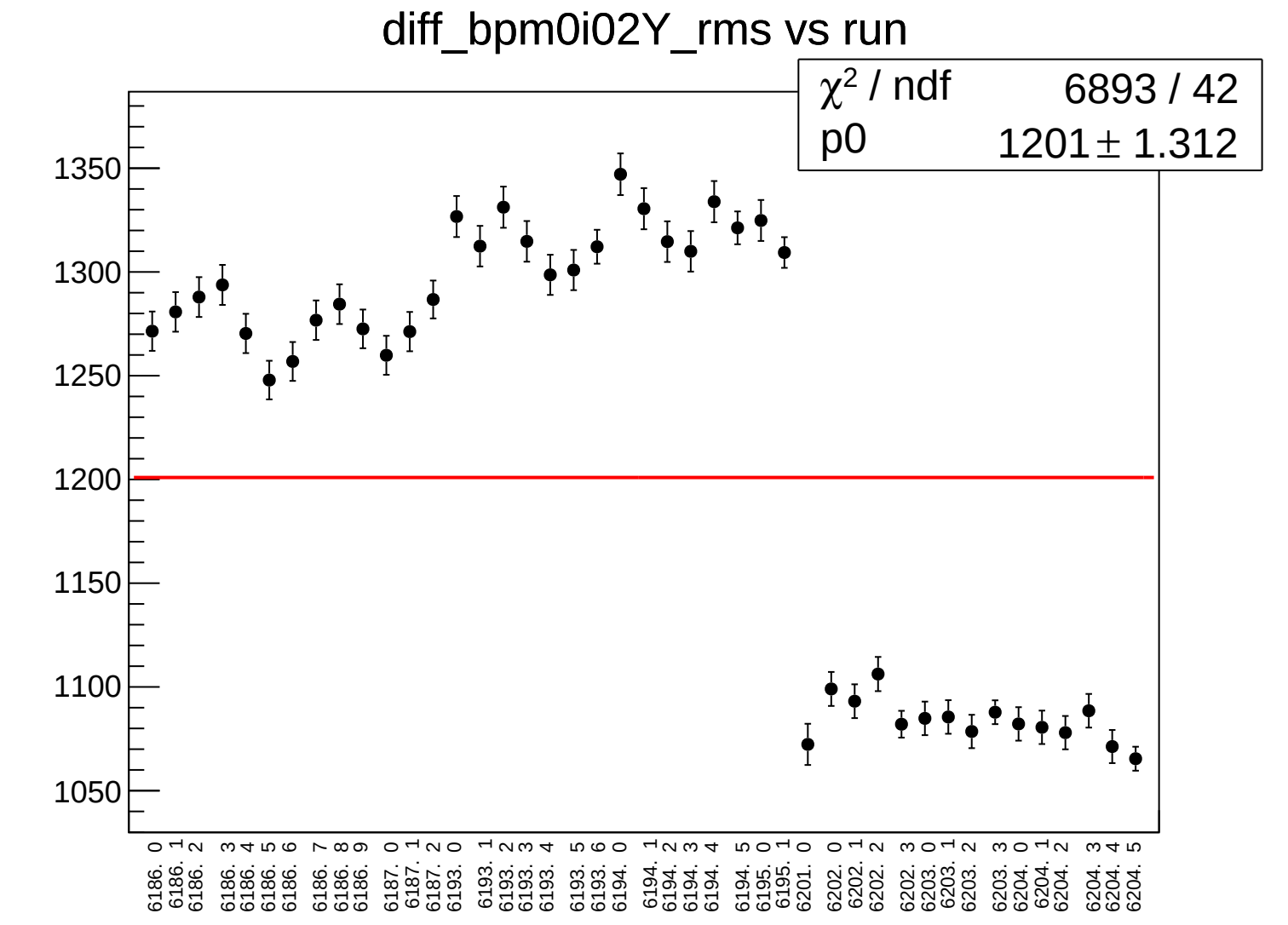

diff_bpm0i02X_mean vs run
χ² / ndf 42.28 / 42
p0 −15.45 ± 2.157
40
20
0
−20
−40
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 74.01
Std Dev 0
2
1
0
−1
−2

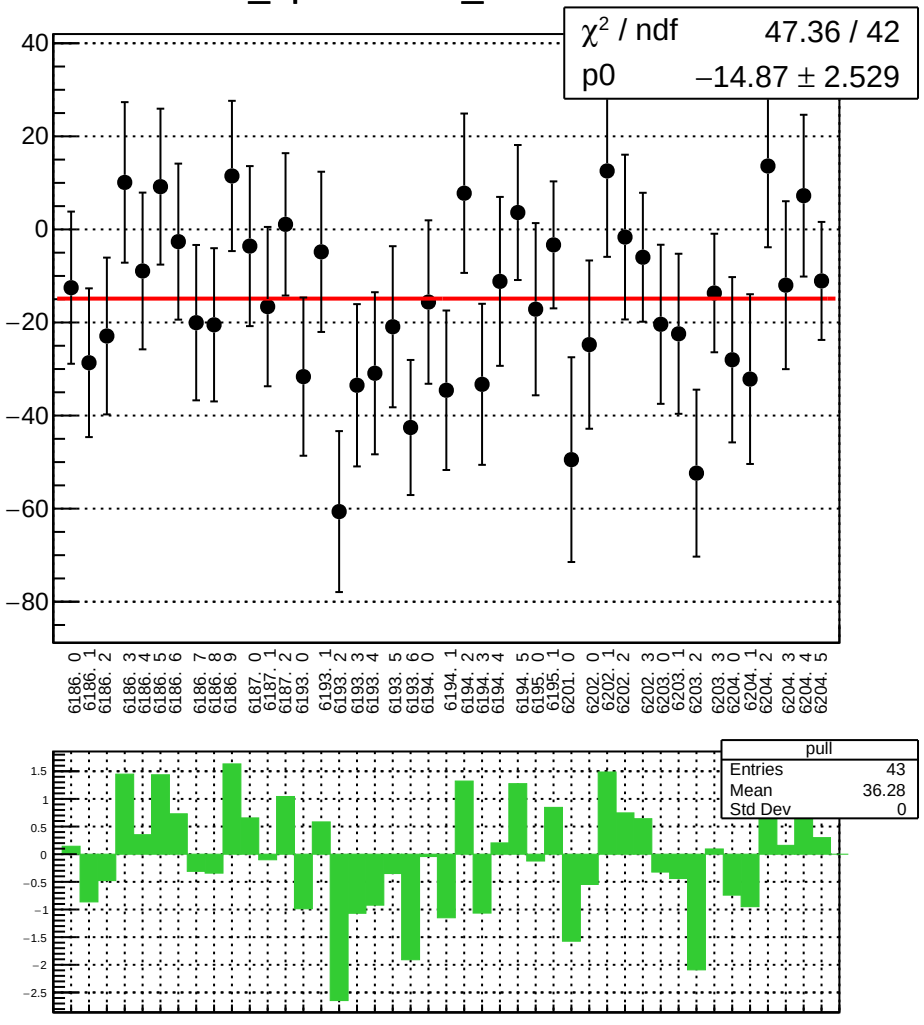

pull1D
Entries 43
Mean −0.01291
Std Dev 0.9915
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

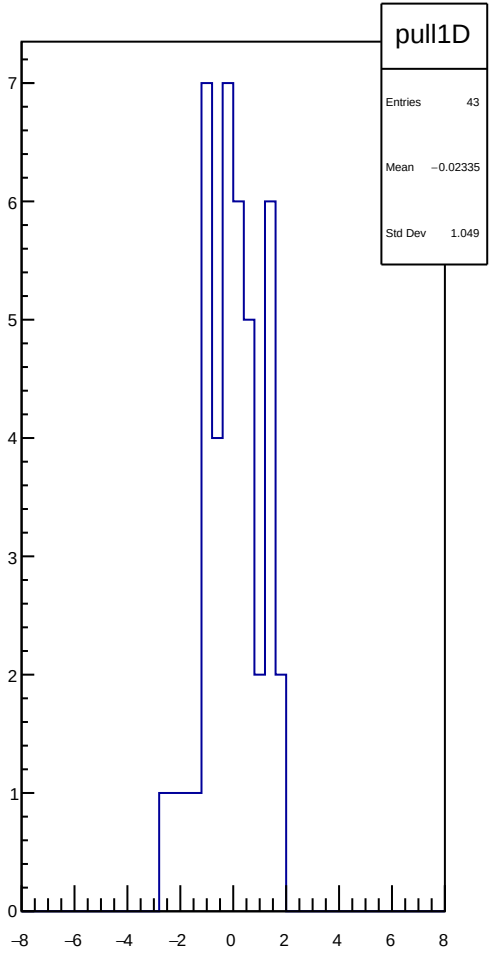

diff_bpm0i02X_rms vs run
χ² / ndf 413.3 / 42
p0 1402 ± 1.525
1460
1440
1420
1400
1380
1360
1340
1320
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

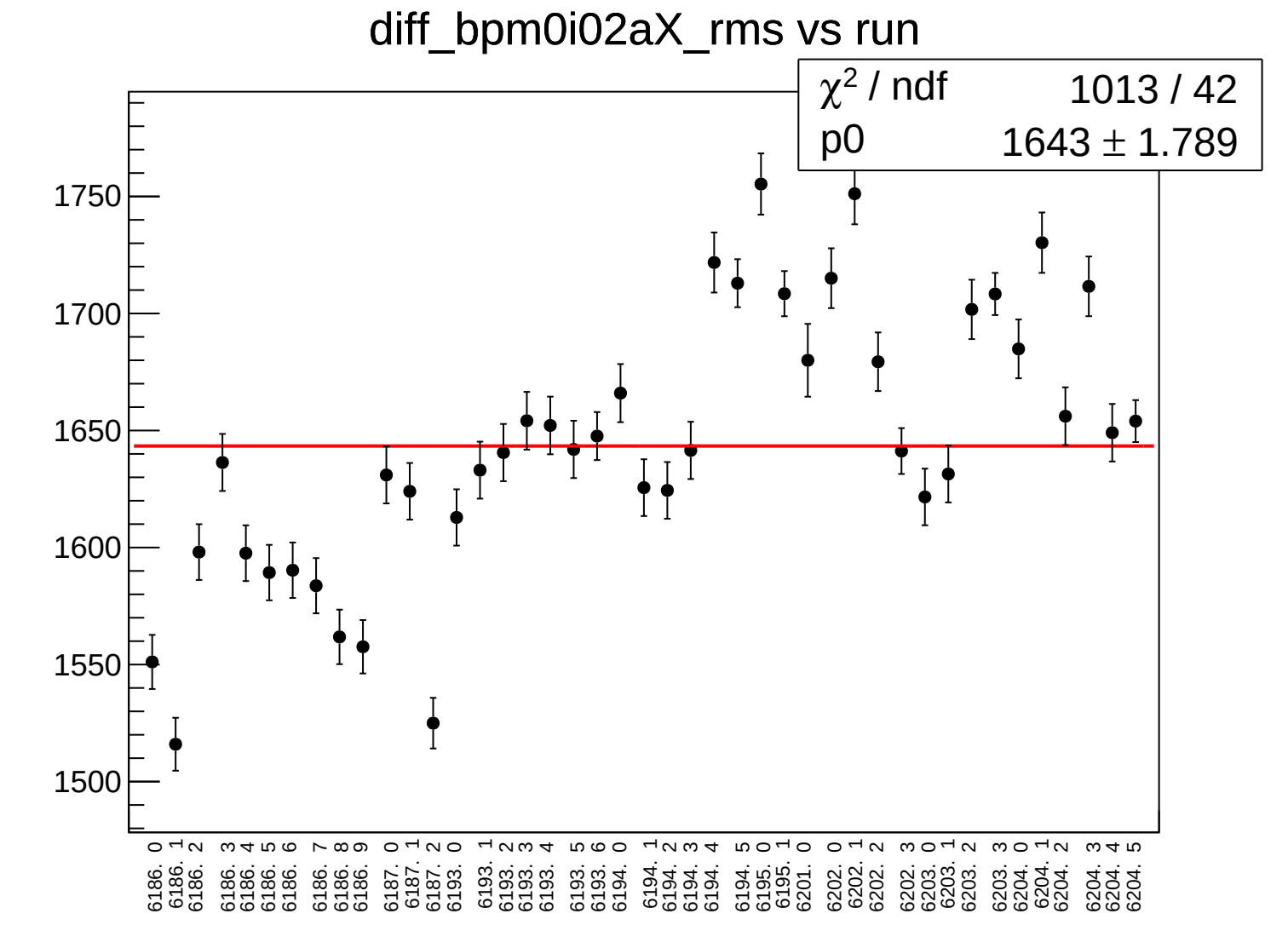

diff_bpm0i02Y_mean vs run
χ² / ndf 87.72 / 42
p0 54.41 ± 1.855
pull
Entries 43
Mean −45.43
Std Dev 0

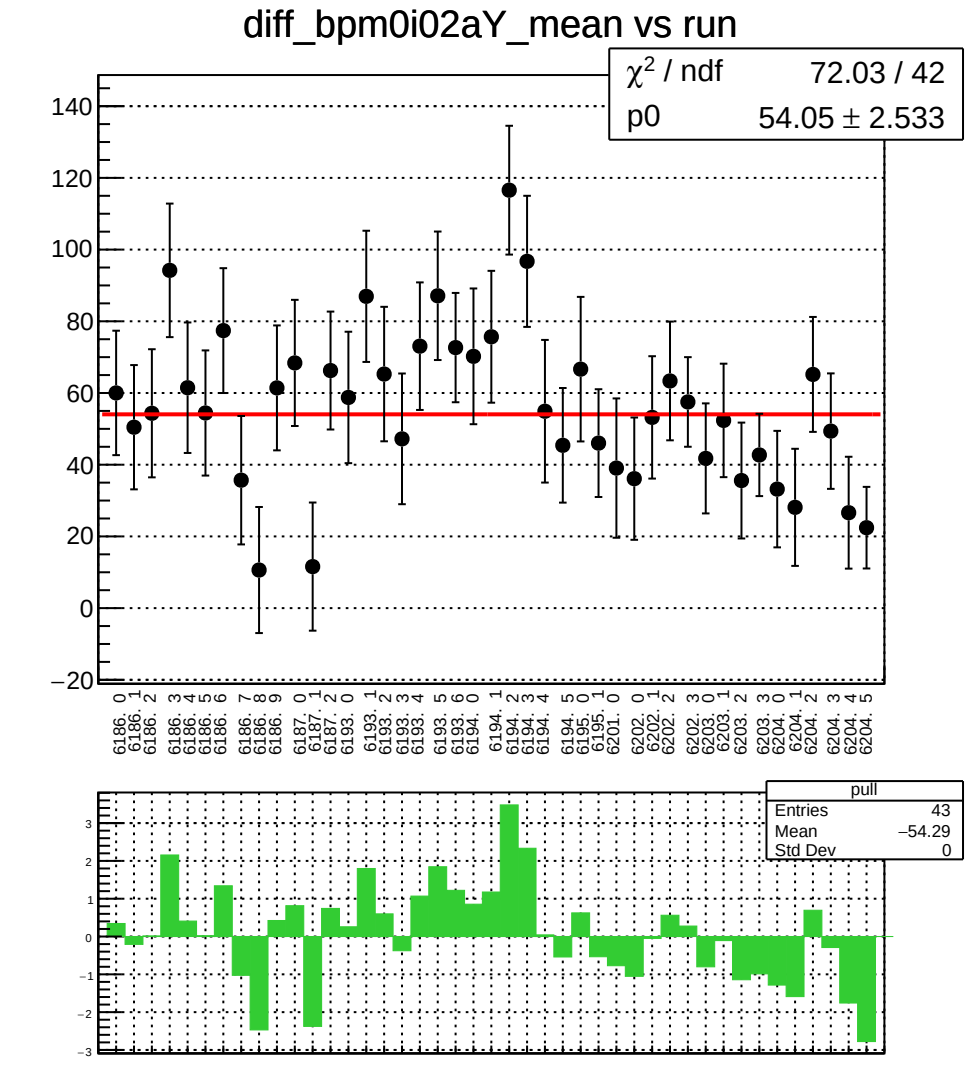

pull1D
Entries 43
Mean 0.1293
Std Dev 1.422

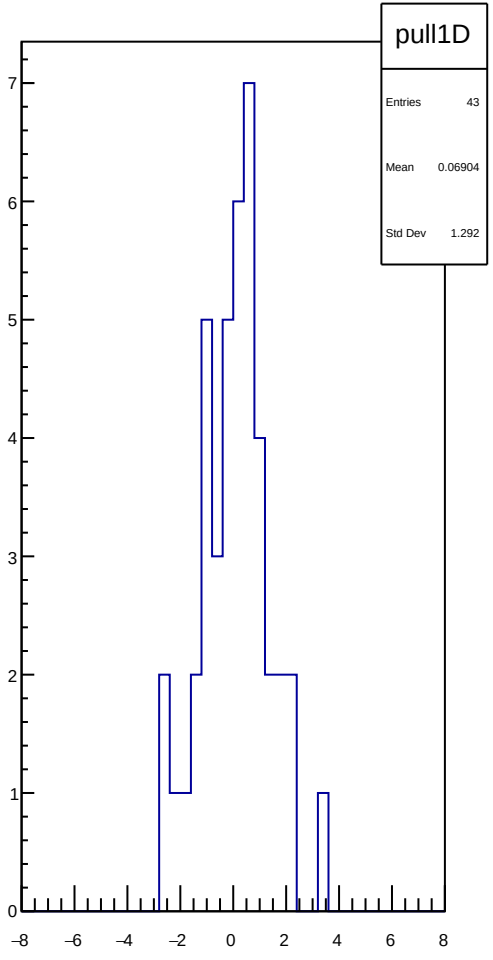

diff_bpm0i02Y_rms vs run
χ² / ndf 6893 / 42
p0 1201 ± 1.312
1350
1300
1250
1200
1150
1100
1050
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

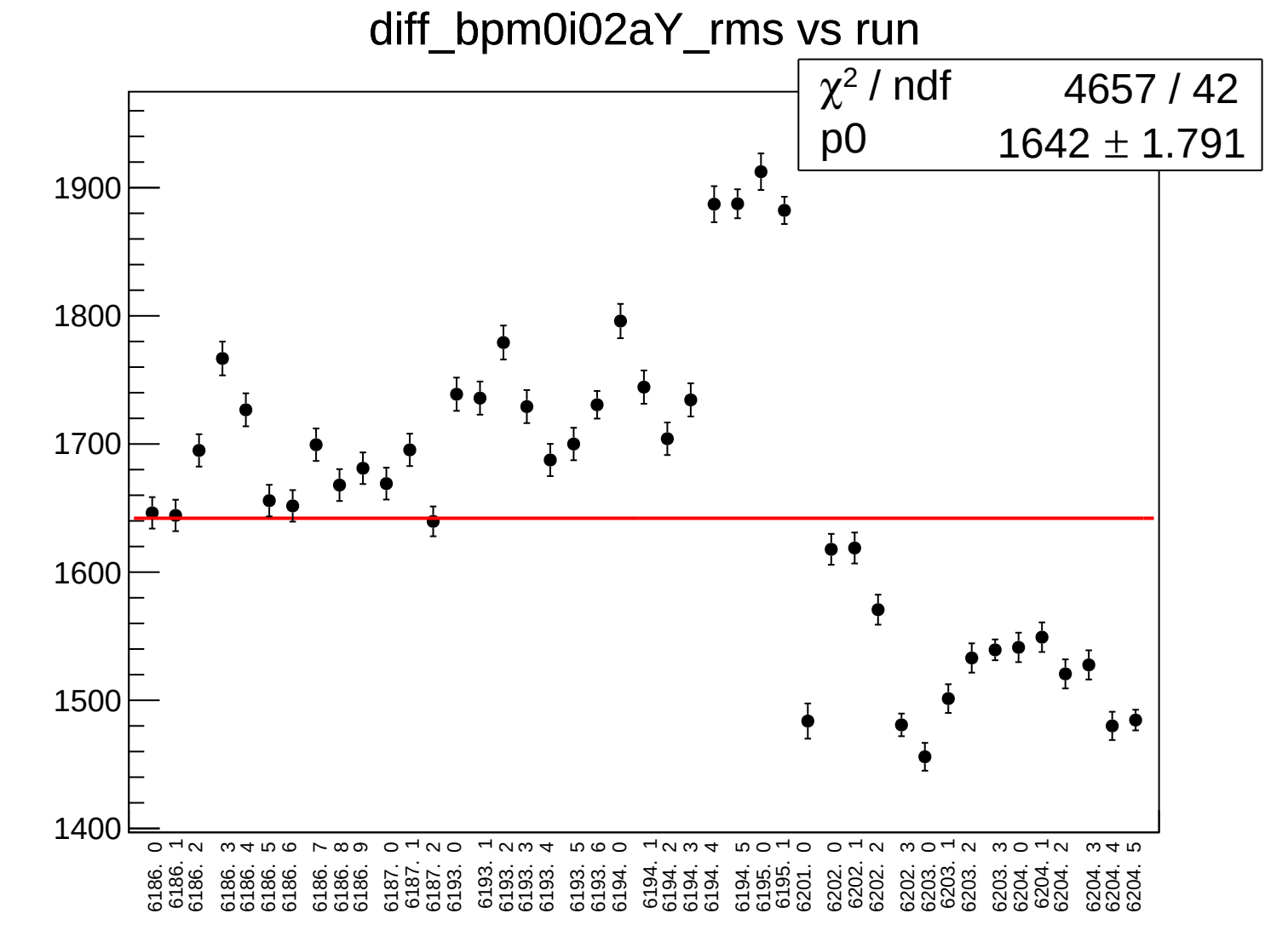

diff_bpm0i02aX_mean vs run
χ² / ndf 47.36 / 42
p0 −14.87 ± 2.529
pull
Entries 43
Mean 36.28
Std Dev 0

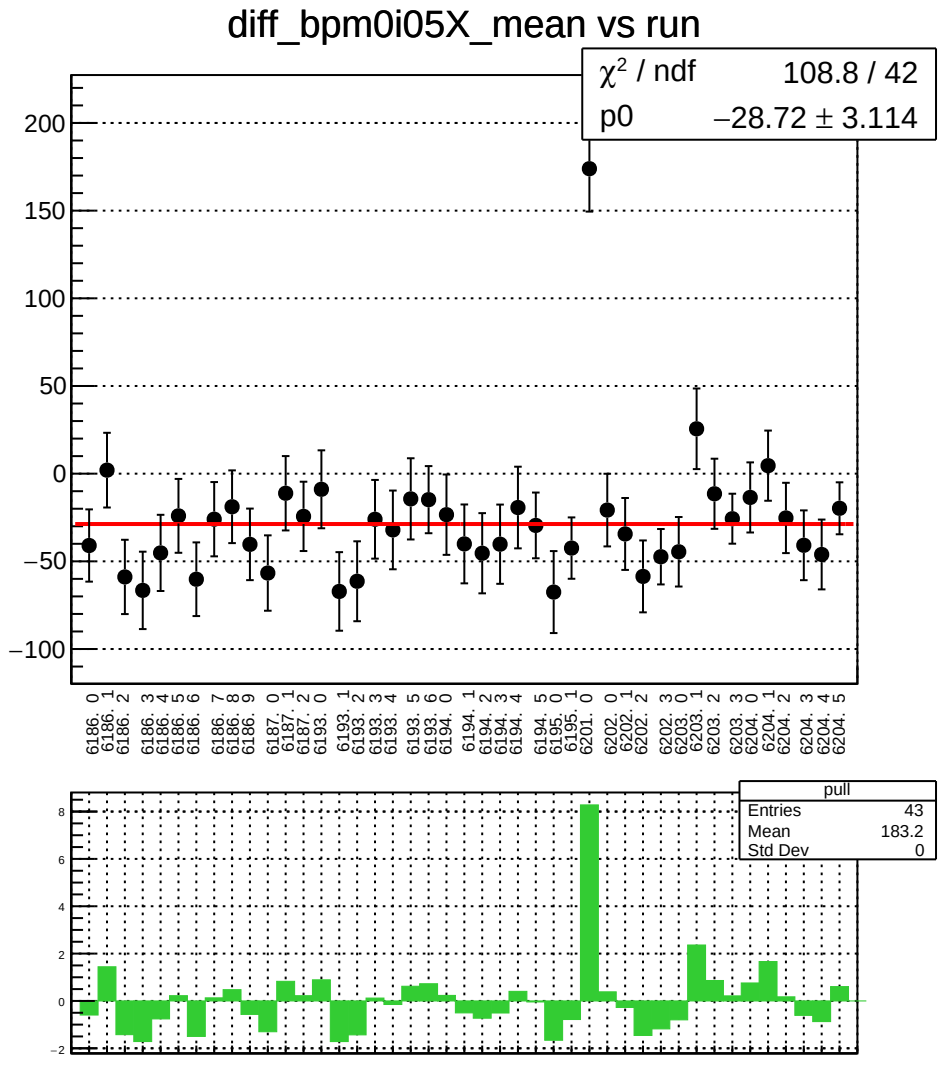

pull1D
Entries 43
Mean −0.02335
Std Dev 1.049

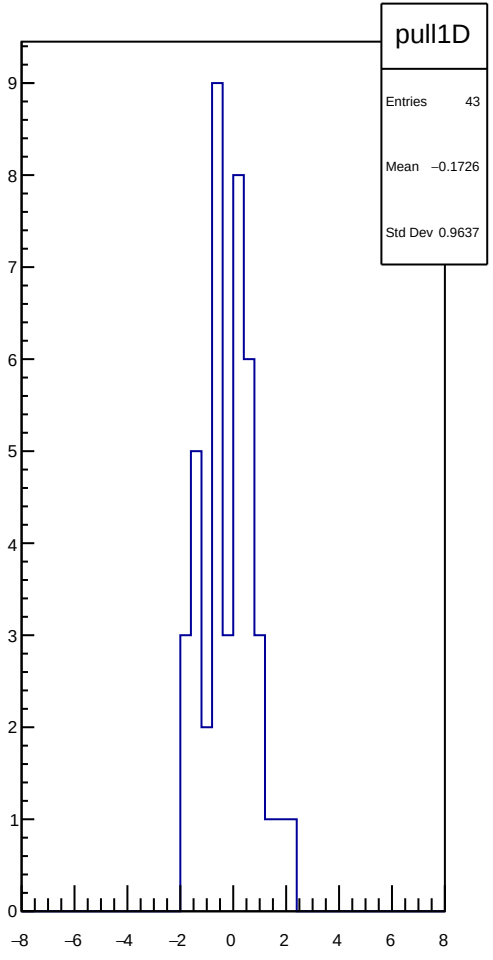

diff_bpm0i02aX_rms vs run
χ² / ndf 1013 / 42
p0 1643 ± 1.789
1750
1700
1650
1600
1550
1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

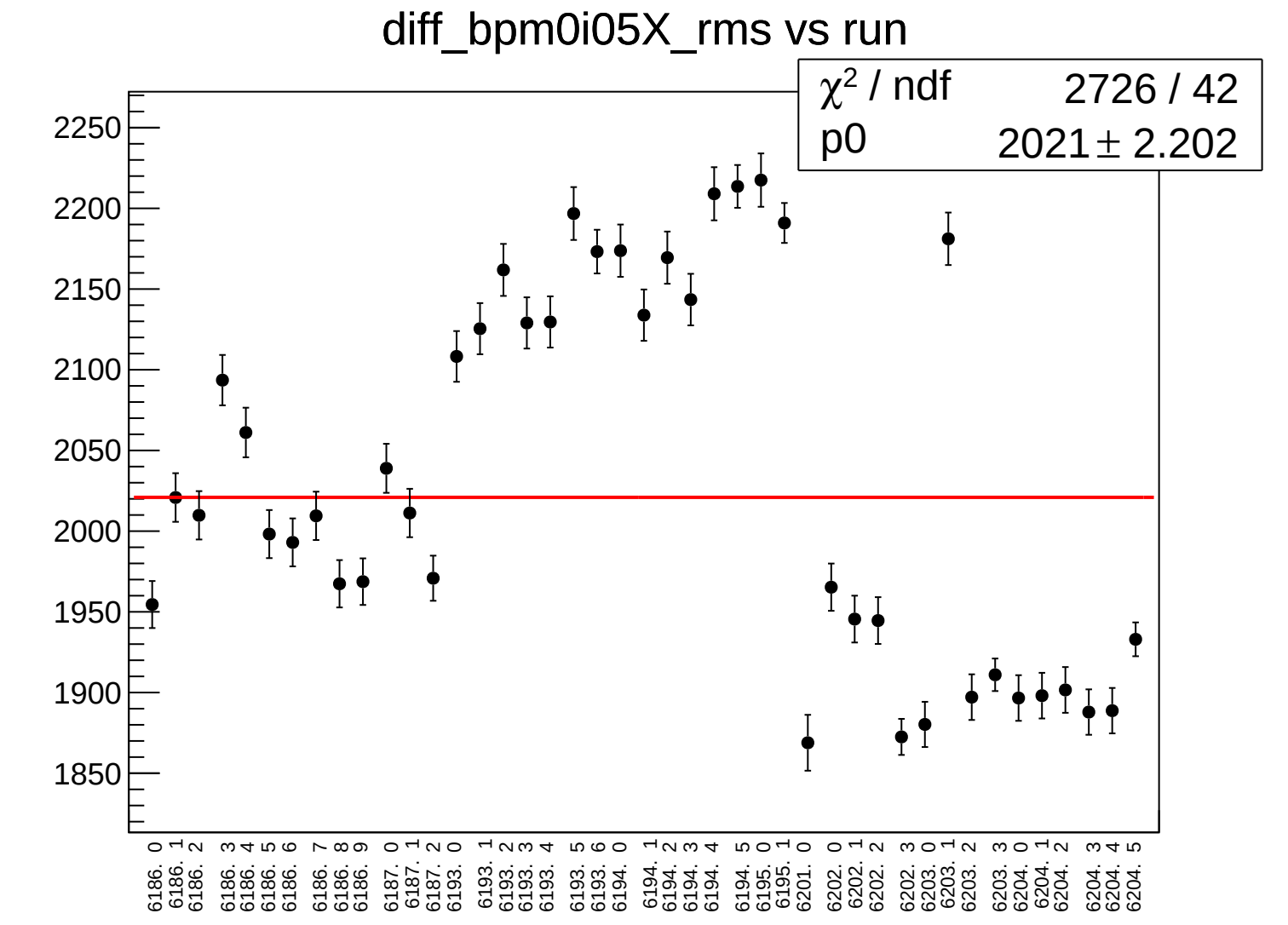

diff_bpm0i02aY_mean vs run
χ² / ndf 72.03 / 42
p0 54.05 ± 2.533
pull
Entries 43
Mean −54.29
Std Dev 0

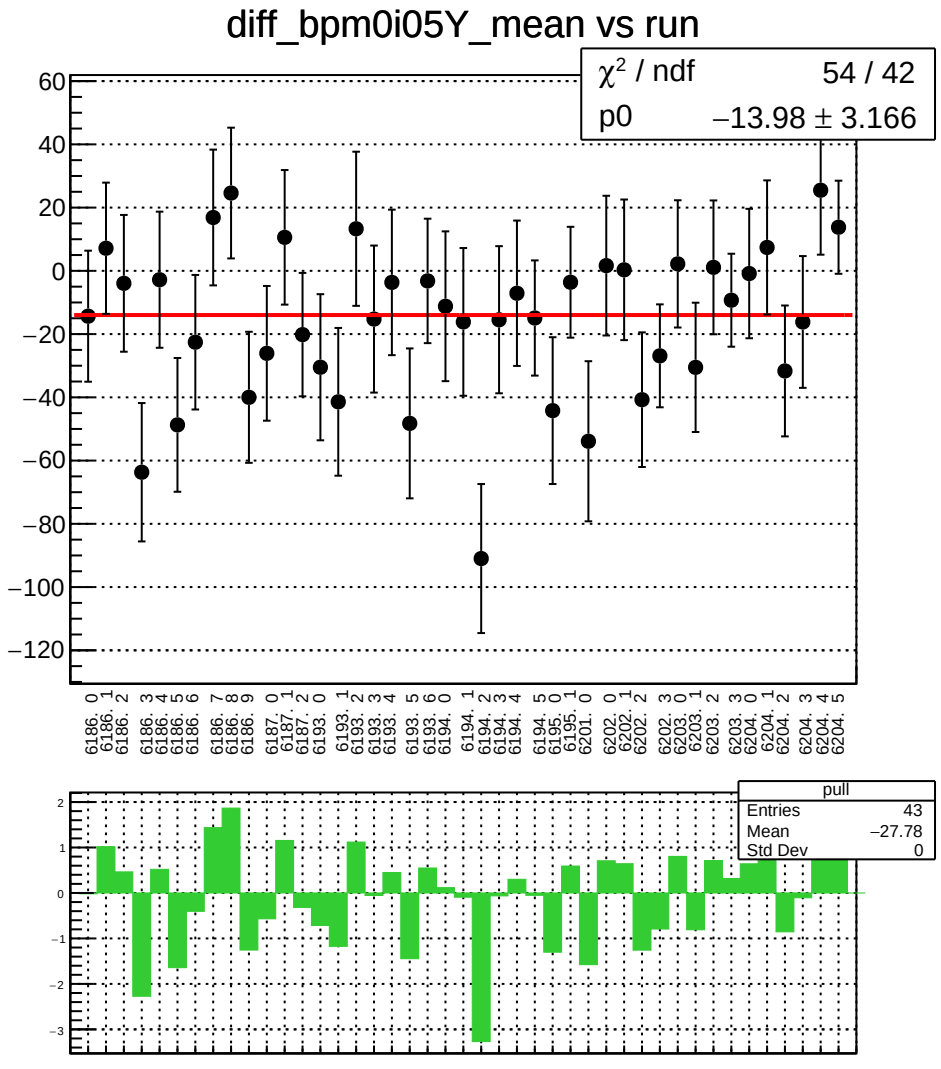

pull1D
Entries 43
Mean 0.06904
Std Dev 1.292

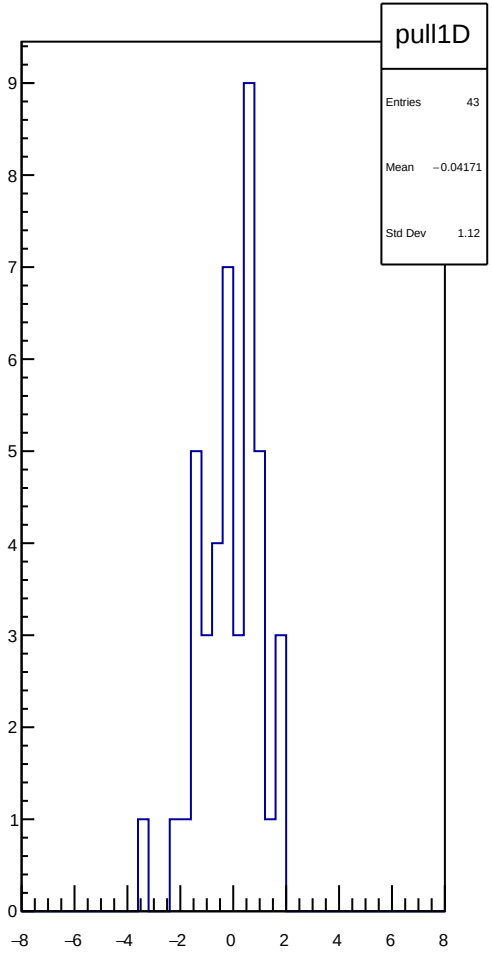

diff_bpm0i02aY_rms vs run
χ² / ndf 4657 / 42
p0 1642 ± 1.791
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

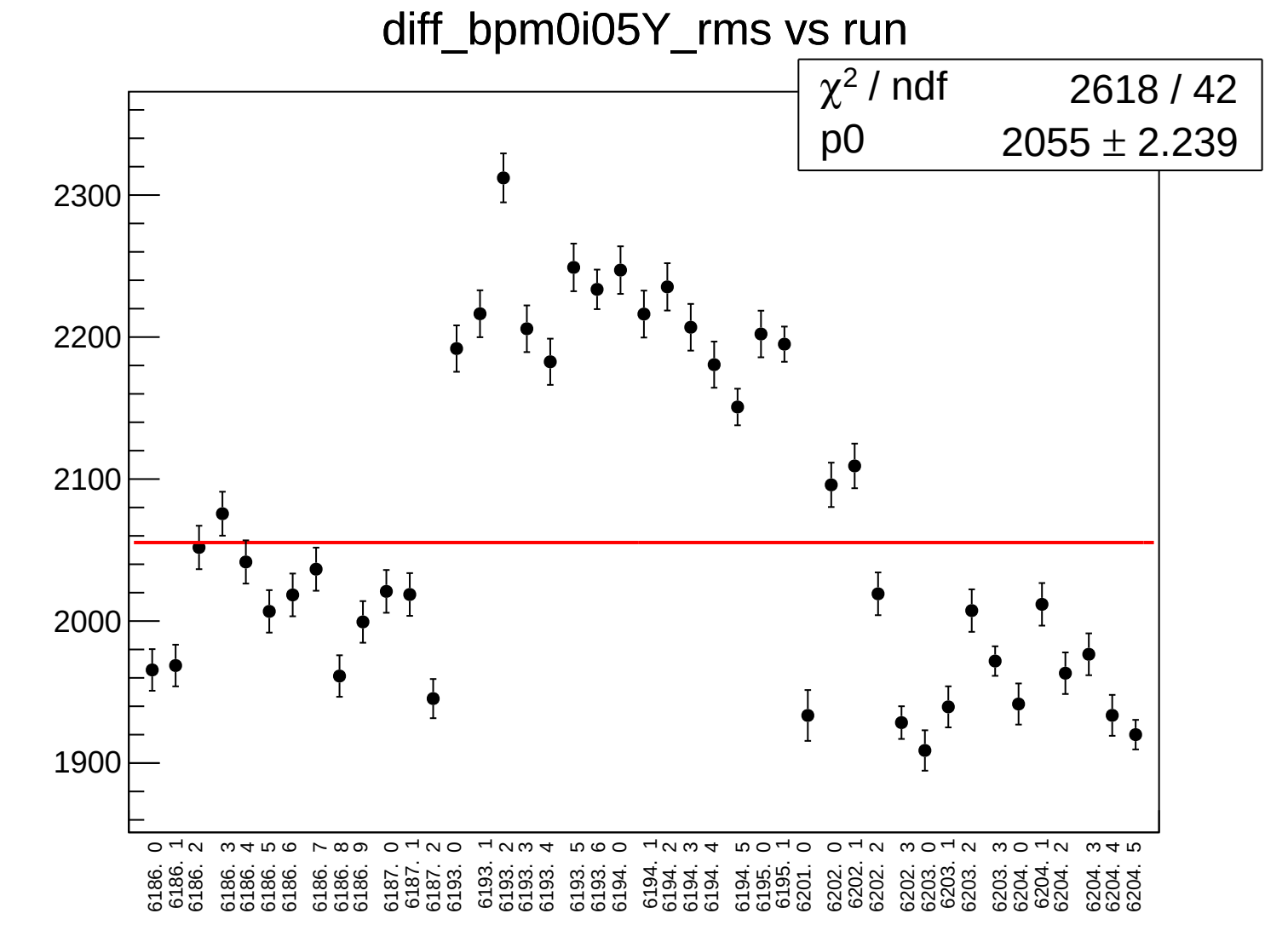

diff_bpm0i05X_mean vs run
χ² / ndf 108.8 / 42
p0 −28.72 ± 3.114
200
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 183.2
Std Dev 0
8
6
4
2
0
−2

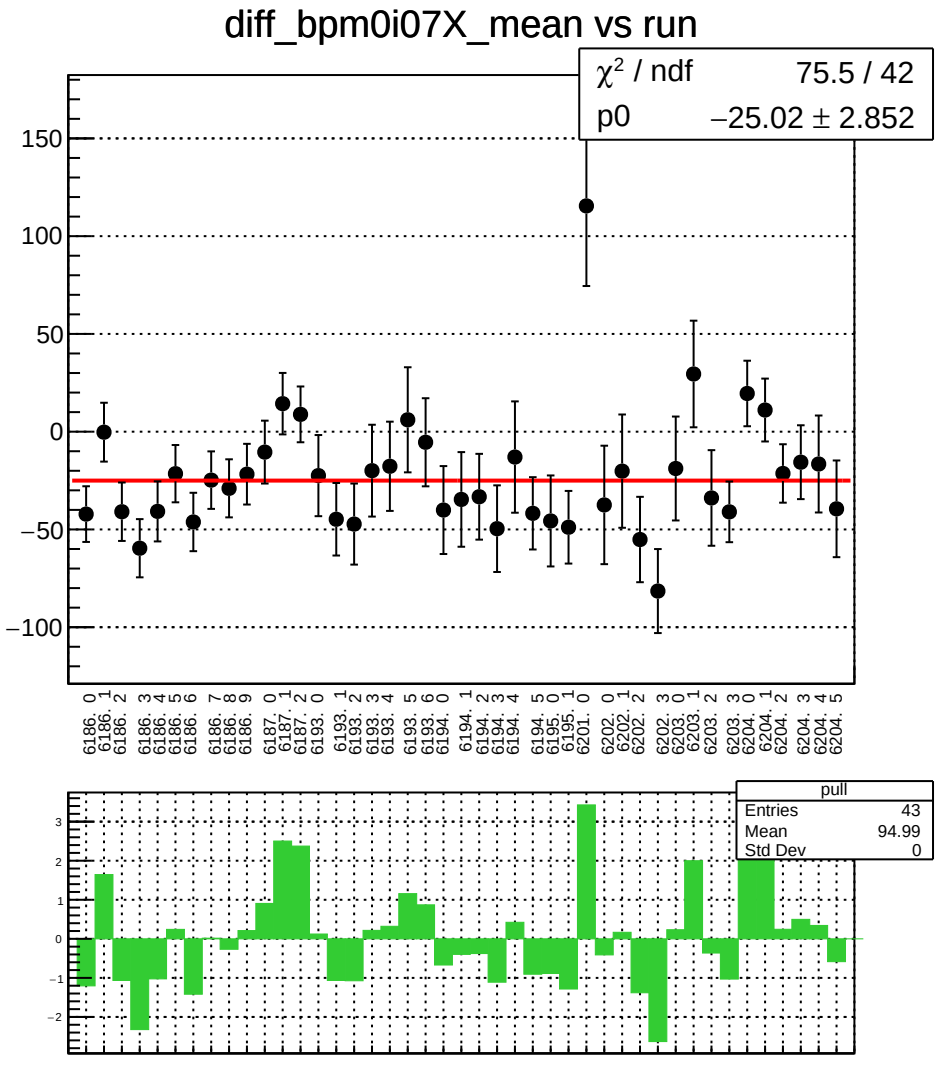

pull1D
Entries 43
Mean −0.1726
Std Dev 0.9637
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

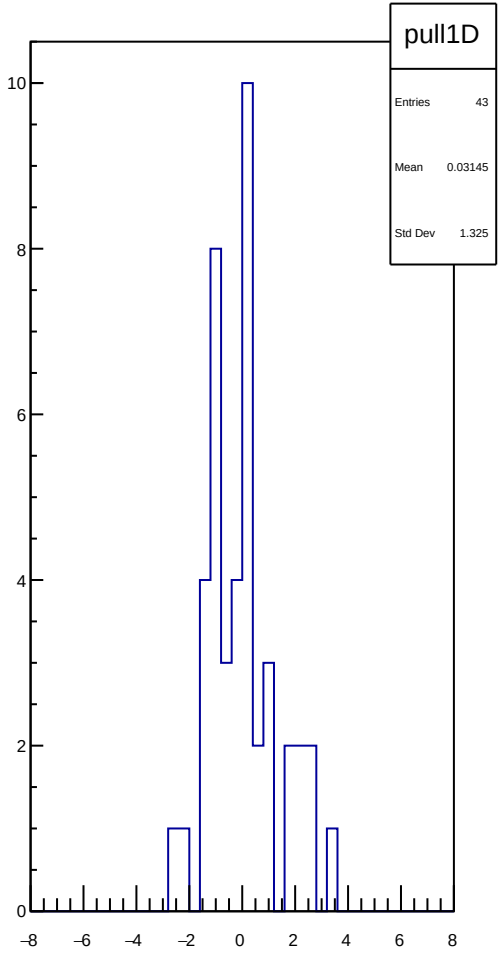

diff_bpm0i05X_rms vs run
χ² / ndf 2726 / 42
p0 2021 ± 2.202
2250
2200
2150
2100
2050
2000
1950
1900
1850
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

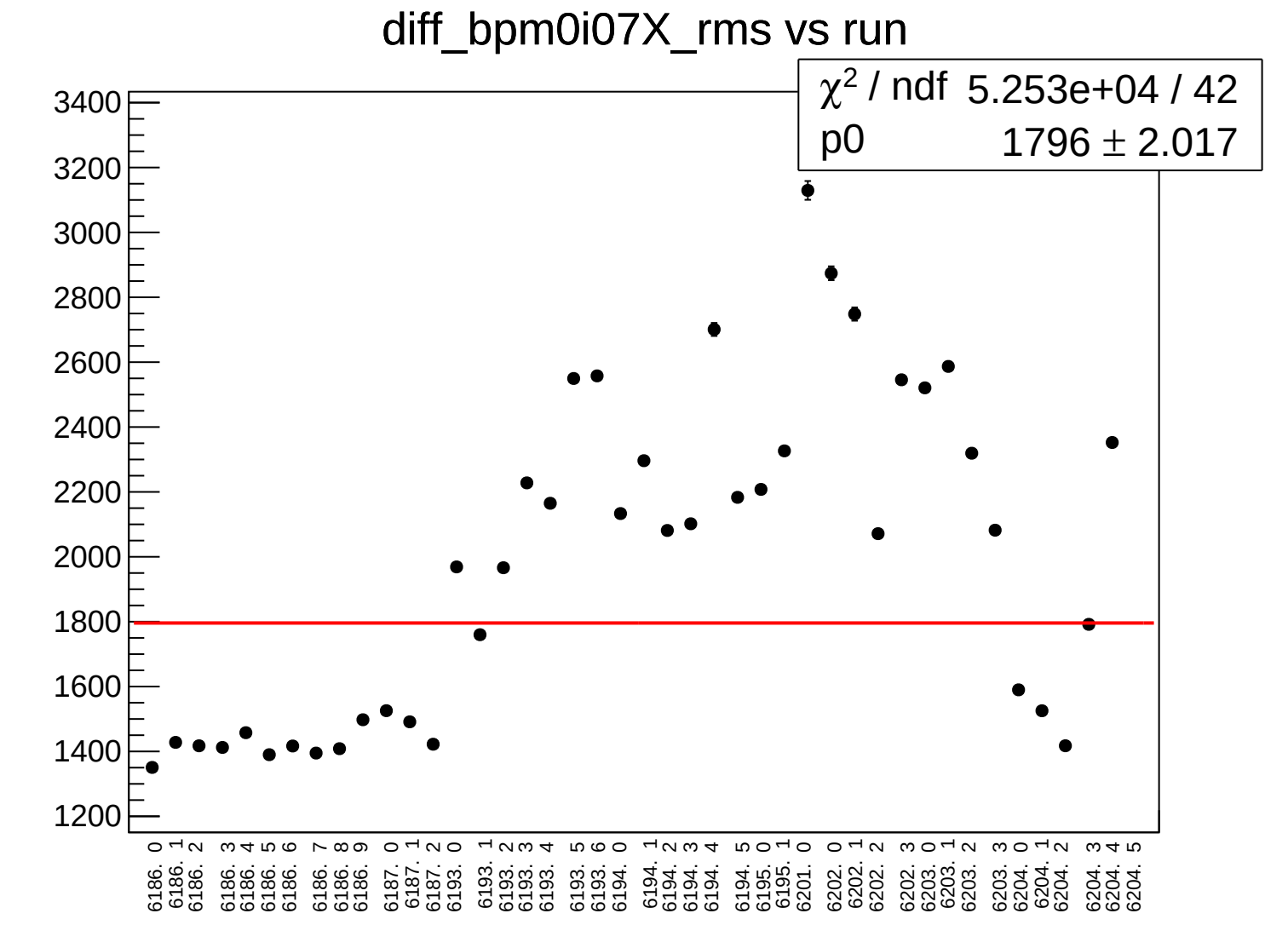

diff_bpm0i05Y_mean vs run
χ² / ndf 54 / 42
p0 −13.98 ± 3.166
pull
Entries 43
Mean −27.78
Std Dev 0

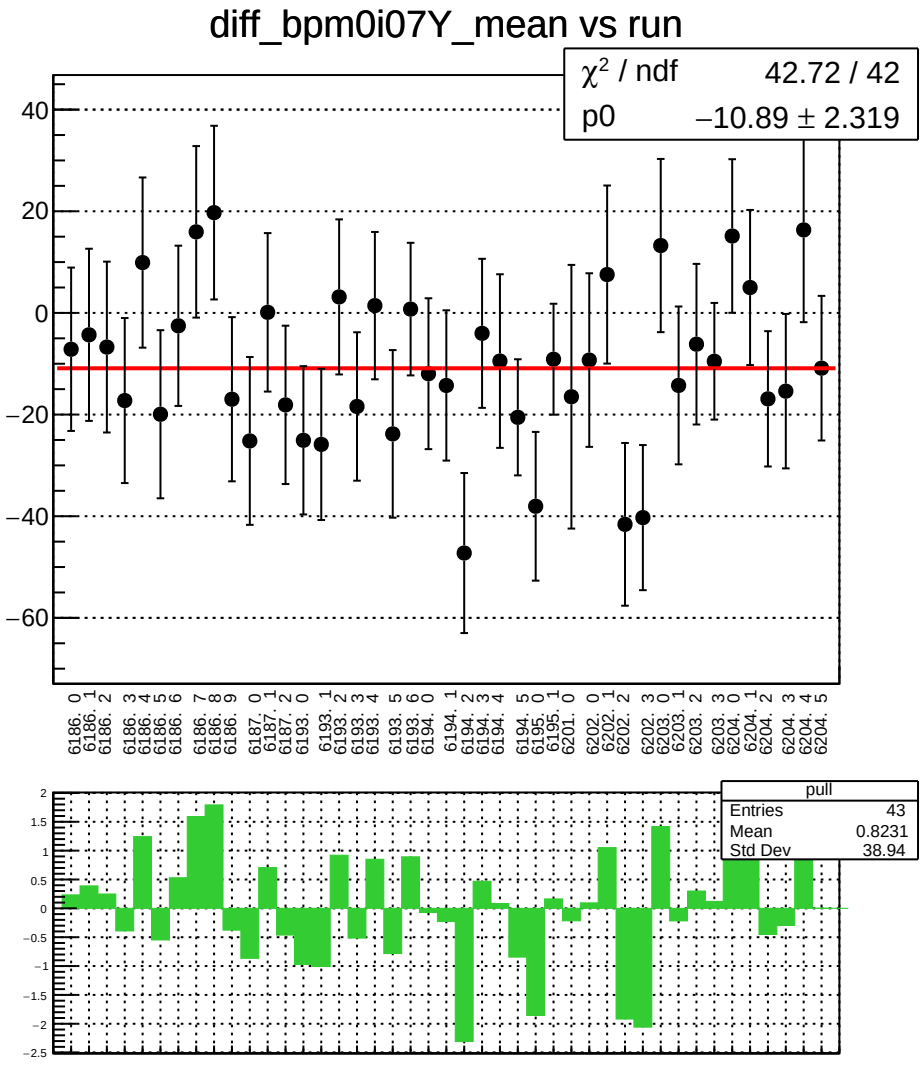

pull1D
Entries 43
Mean −0.04171
Std Dev 1.12

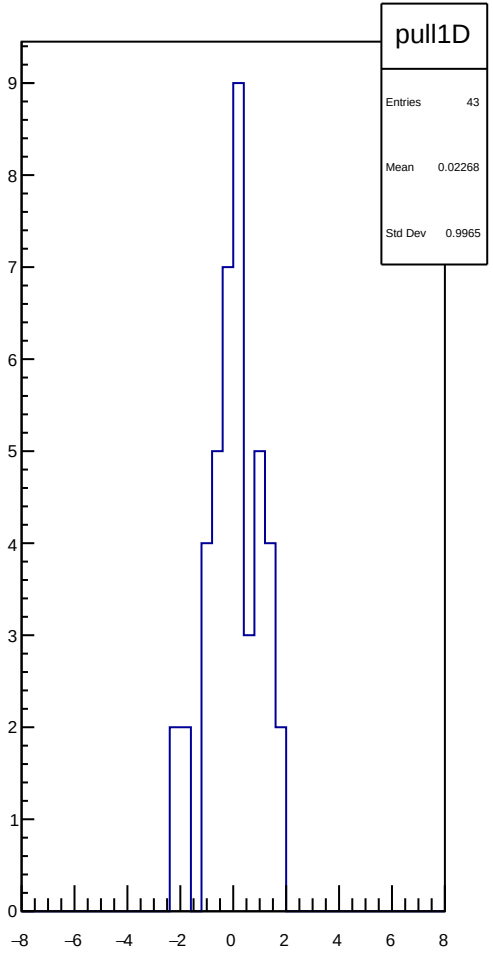

diff_bpm0i05Y_rms vs run
χ² / ndf 2618 / 42
p0 2055 ± 2.239
2300
2200
2100
2000
1900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

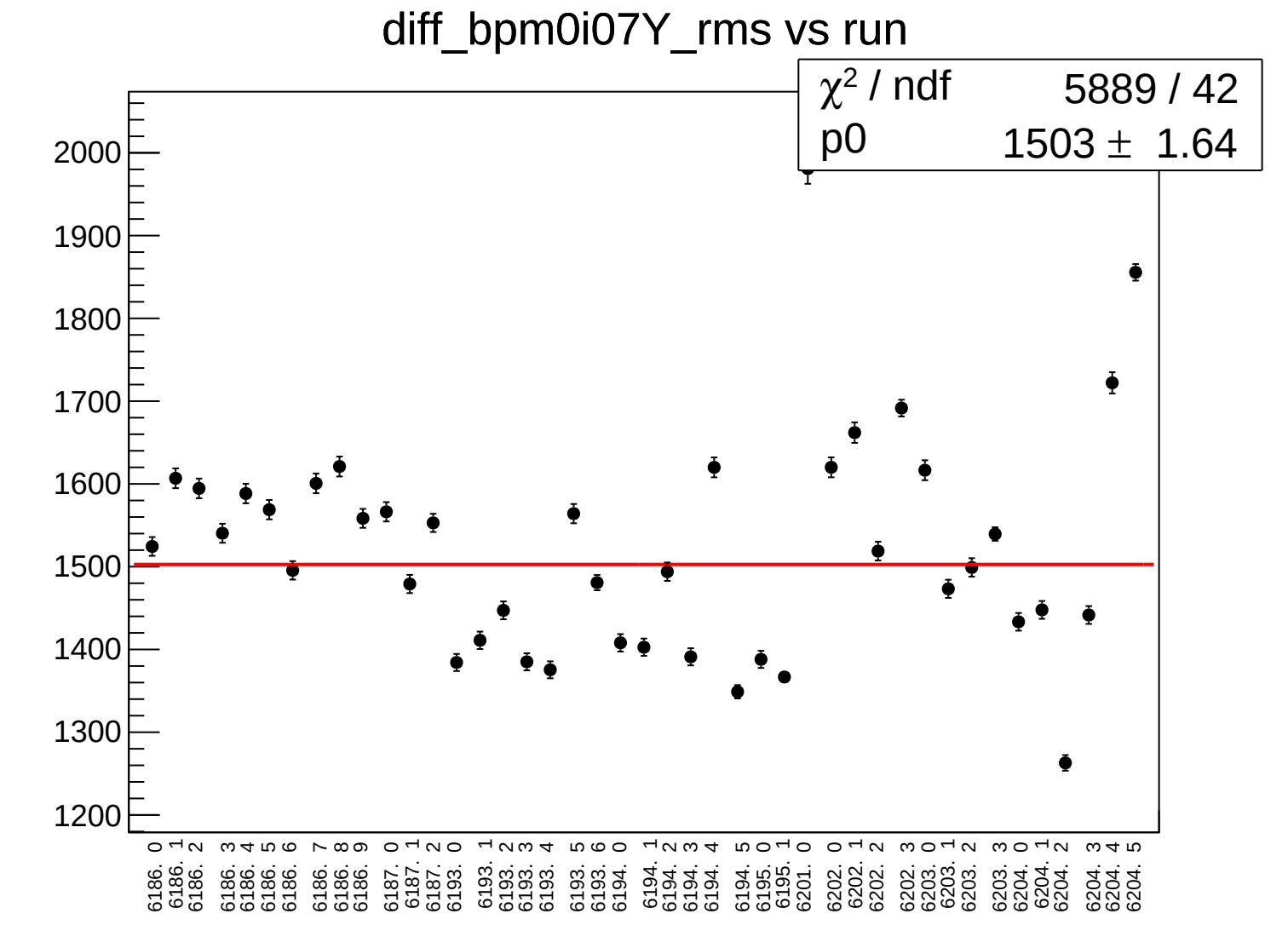

diff_bpm0i07X_mean vs run
χ² / ndf 75.5 / 42
p0 −25.02 ± 2.852
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 94.99
Std Dev 0
3
2
1
0
−1
−2

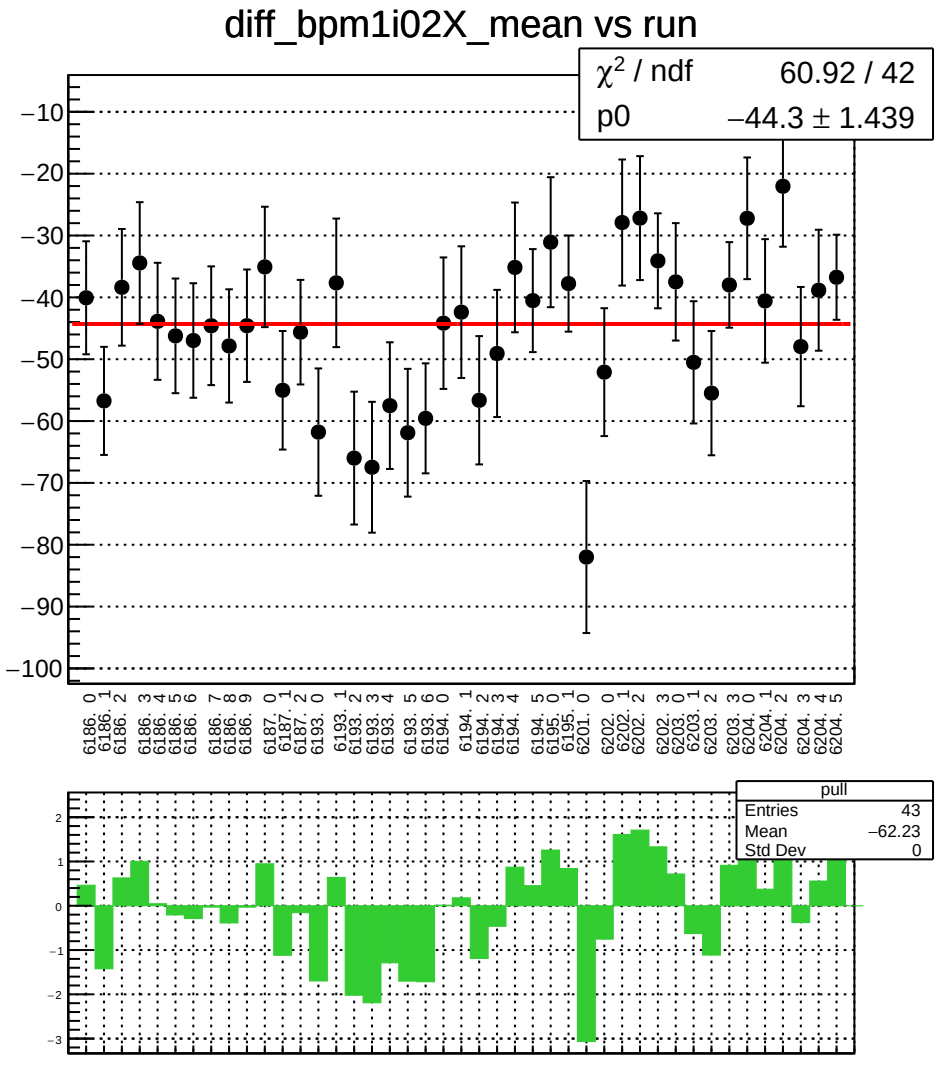

pull1D
Entries 43
Mean 0.03145
Std Dev 1.325
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

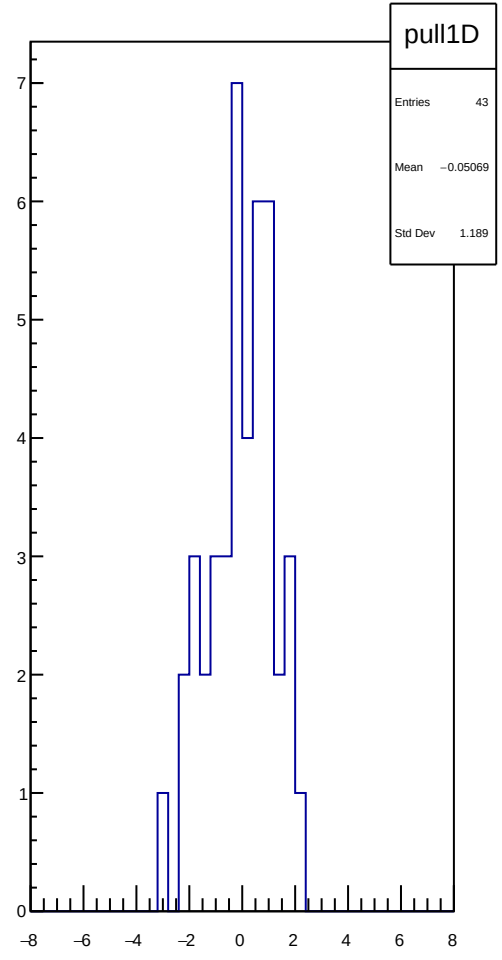

diff_bpm0i07X_rms vs run
χ² / ndf 5.253e+04 / 42
p0 1796 ± 2.017
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

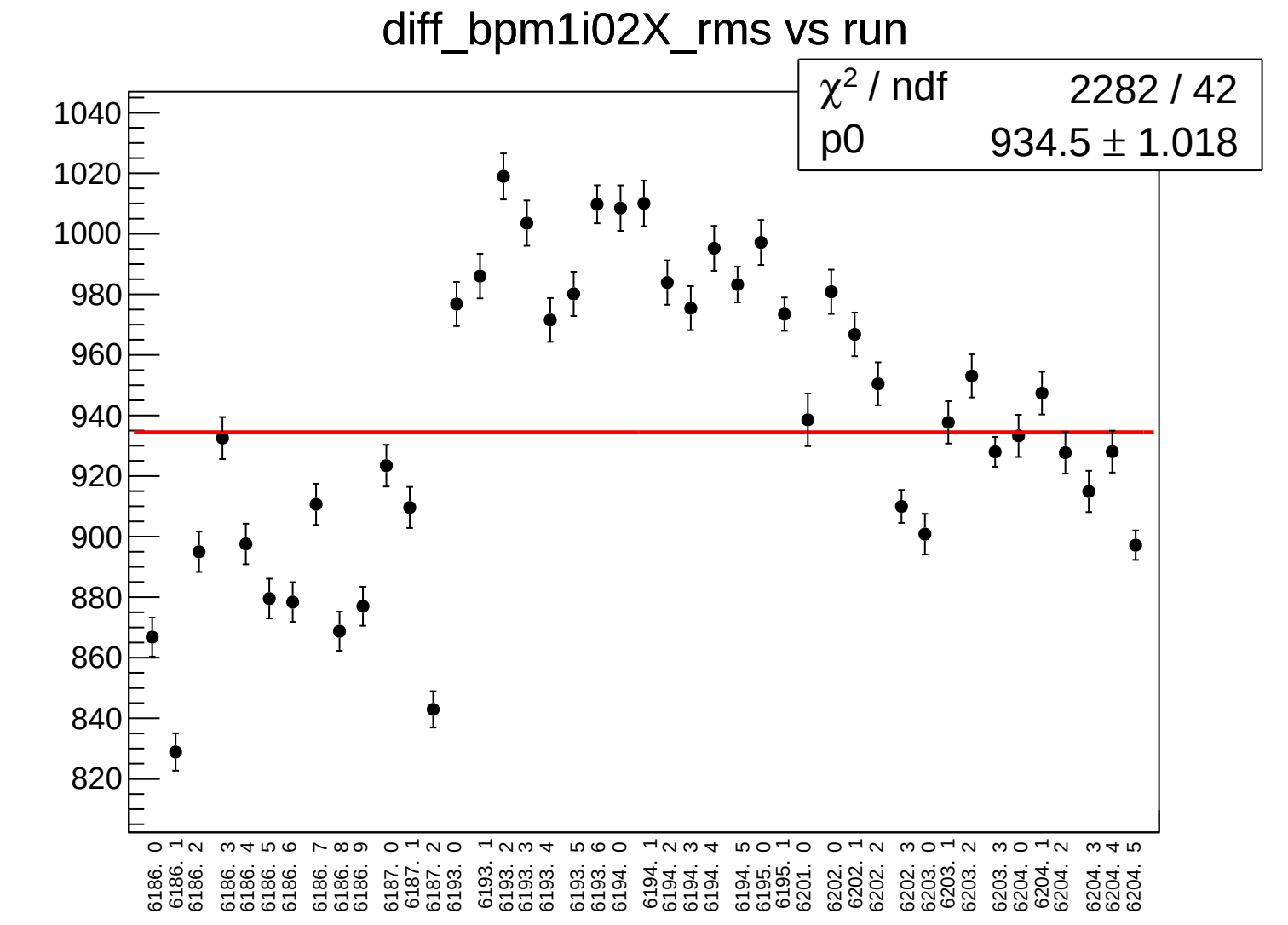

diff_bpm0i07Y_mean vs run
χ² / ndf 42.72 / 42
p0 −10.89 ± 2.319
40
20
0
−20
−40
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 0.8231
Std Dev 38.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

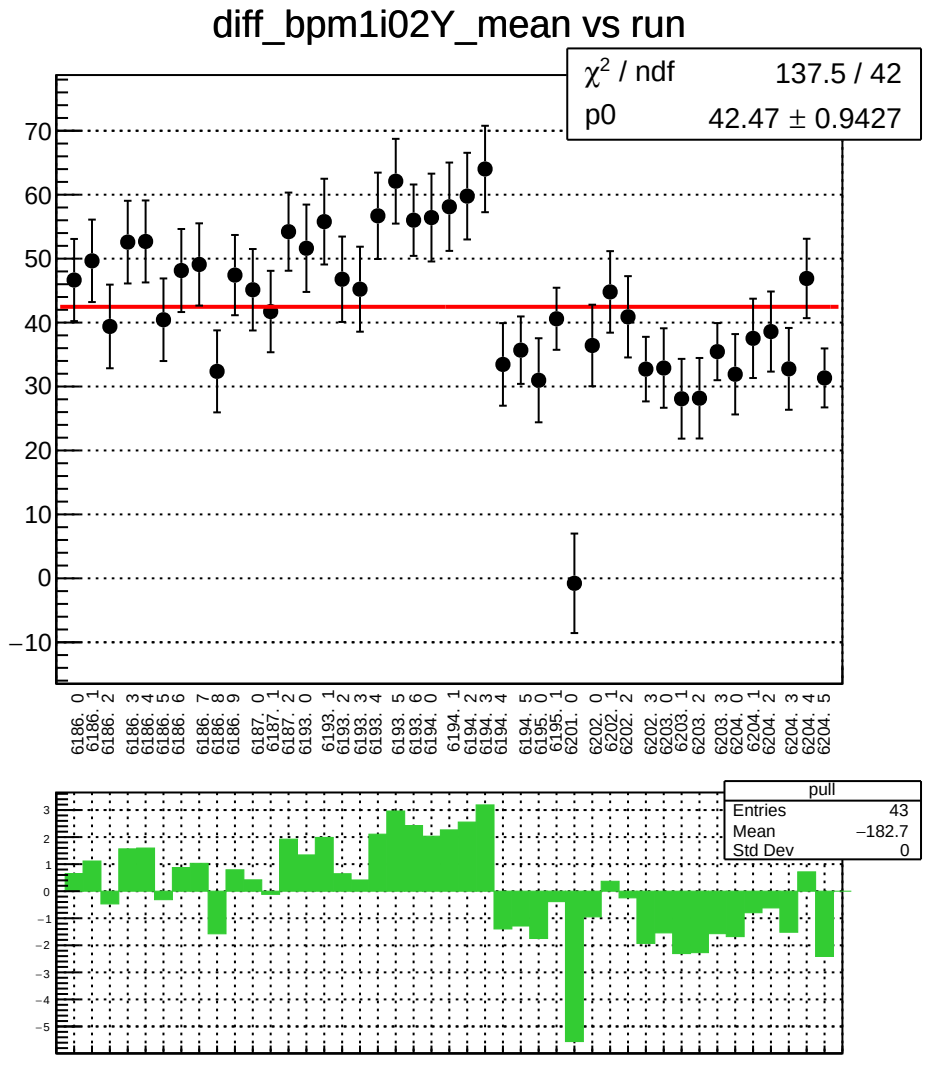

pull1D
Entries 43
Mean 0.02268
Std Dev 0.9965
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

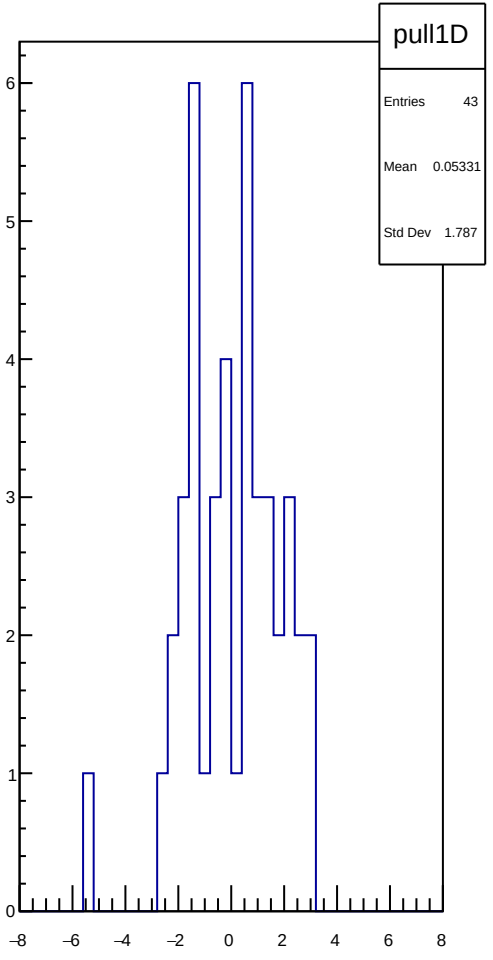

diff_bpm0i07Y_rms vs run
χ² / ndf 5889 / 42
p0 1503 ± 1.64
2000
1900
1800
1700
1600
1500
1400
1300
1200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

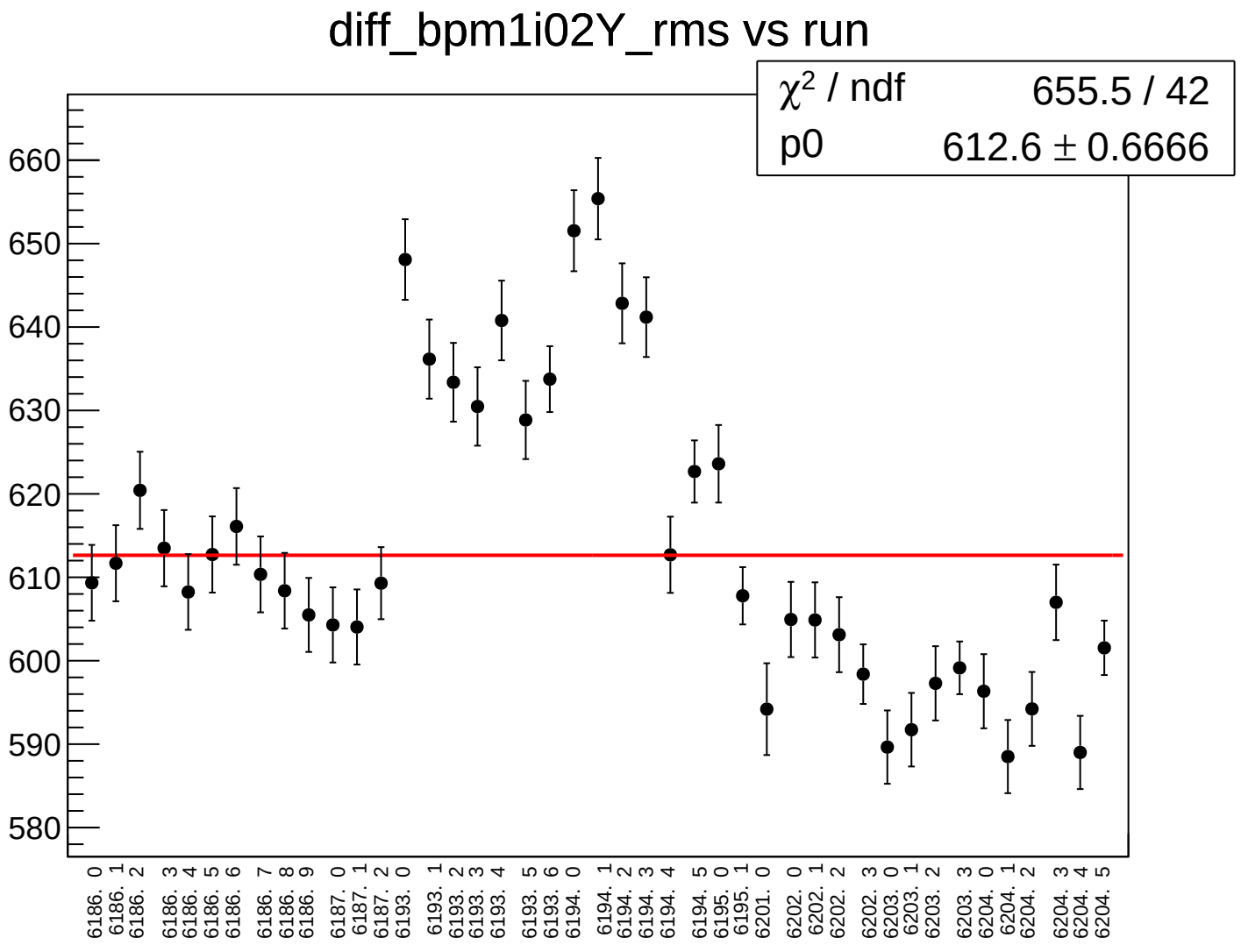

diff_bpm1i02X_mean vs run
χ² / ndf 60.92 / 42
p0 −44.3 ± 1.439
−10
−20
−30
−40
−50
−60
−70
−80
−90
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −62.23
Std Dev 0
2
1
0
−1
−2
−3

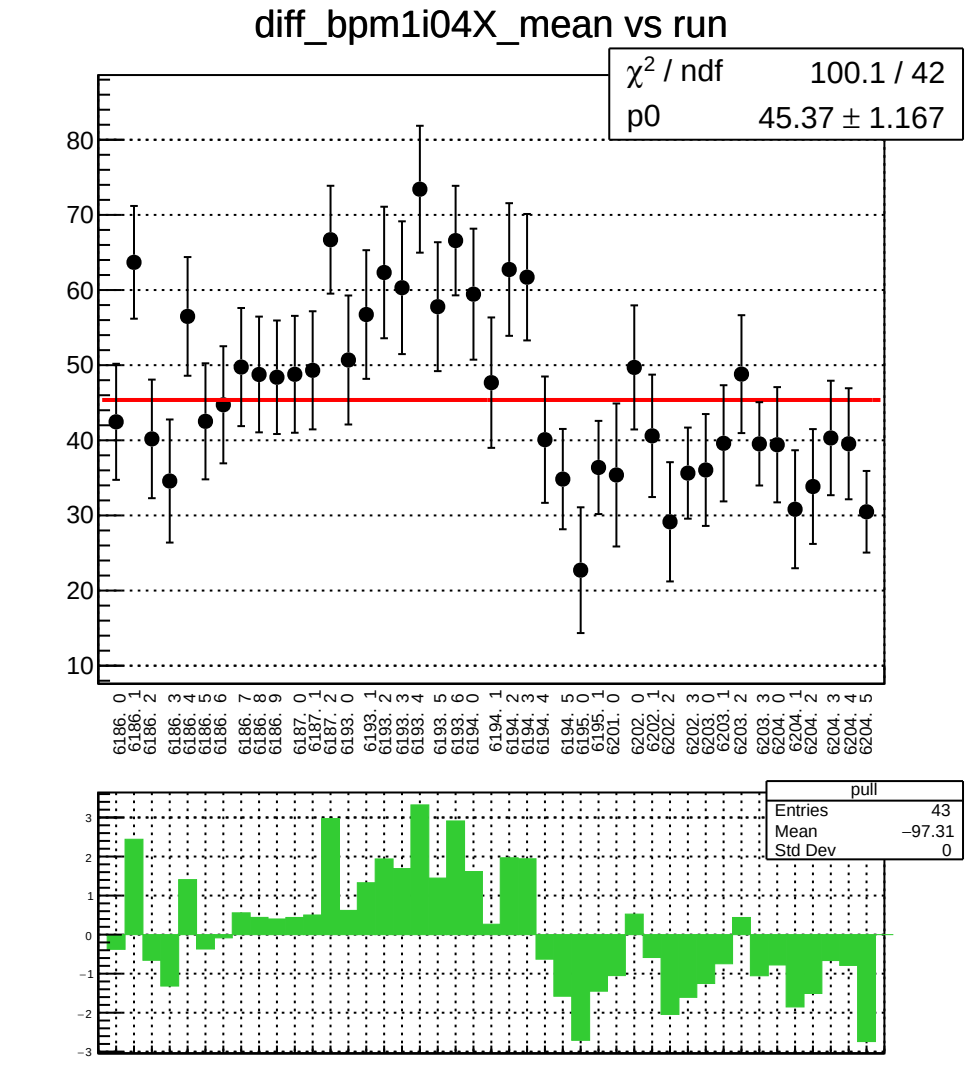

pull1D
Entries 43
Mean −0.05069
Std Dev 1.189
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

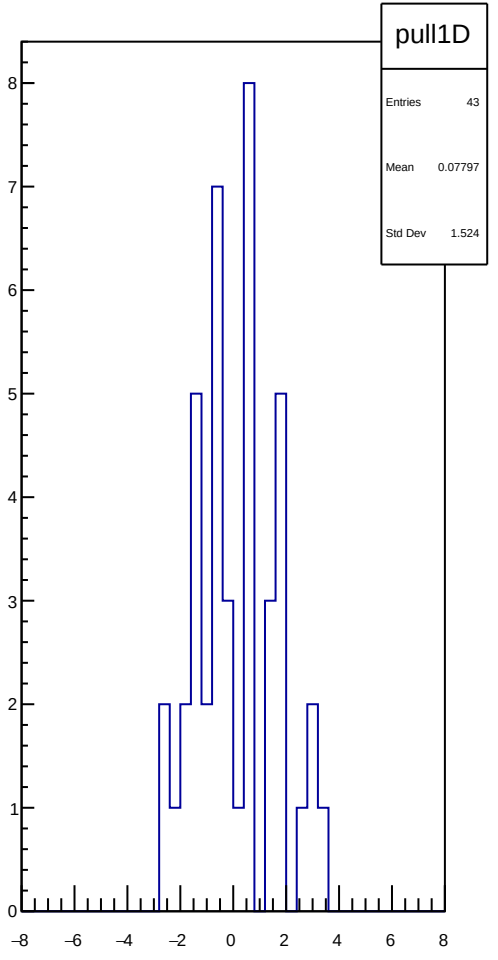

diff_bpm1i02X_rms vs run
χ² / ndf 2282 / 42
p0 934.5 ± 1.018
1040
1020
1000
980
960
940
920
900
880
860
840
820
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

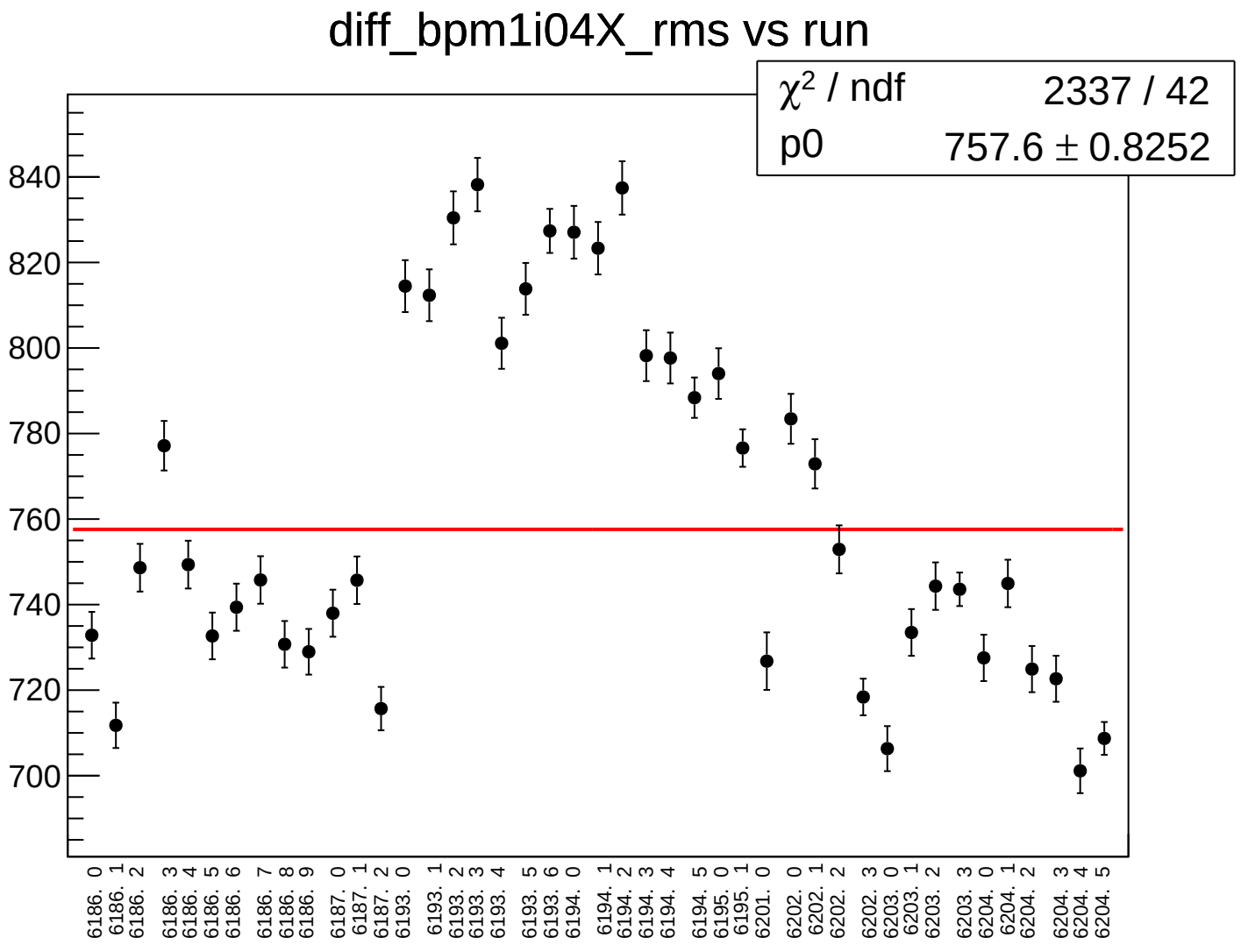

diff_bpm1i02Y_mean vs run
χ² / ndf 137.5 / 42
p0 42.47 ± 0.9427
pull
Entries 43
Mean −182.7
Std Dev 0

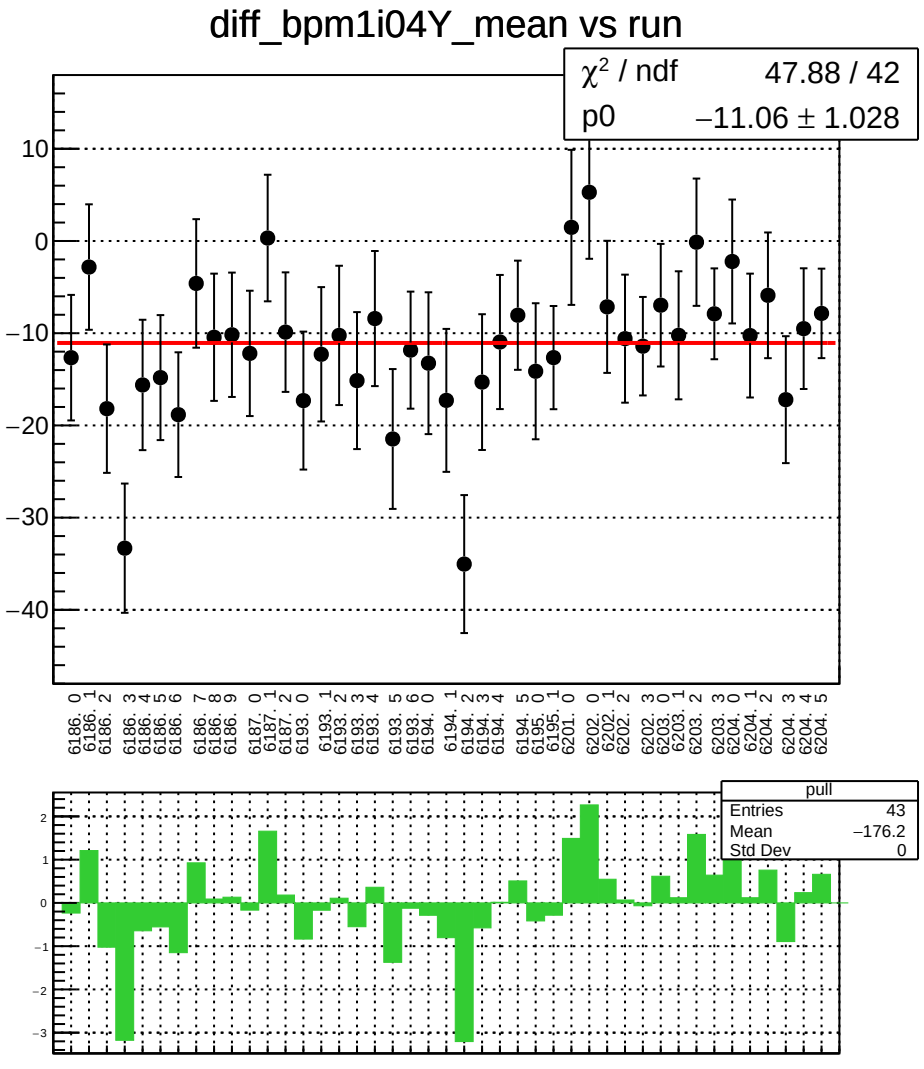

pull1D
Entries 43
Mean 0.05331
Std Dev 1.787

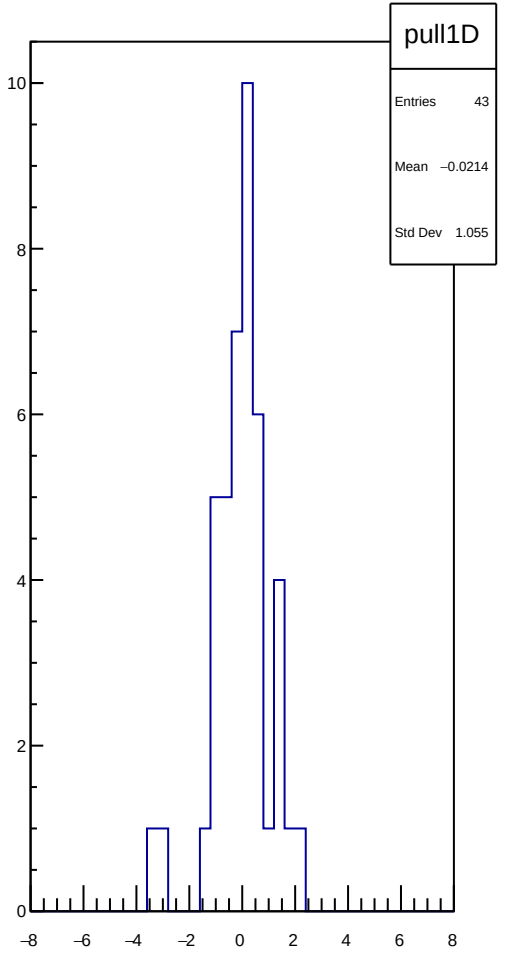

diff_bpm1i02Y_rms vs run
χ² / ndf 655.5 / 42
p0 612.6 ± 0.6666
660
650
640
630
620
610
600
590
580
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

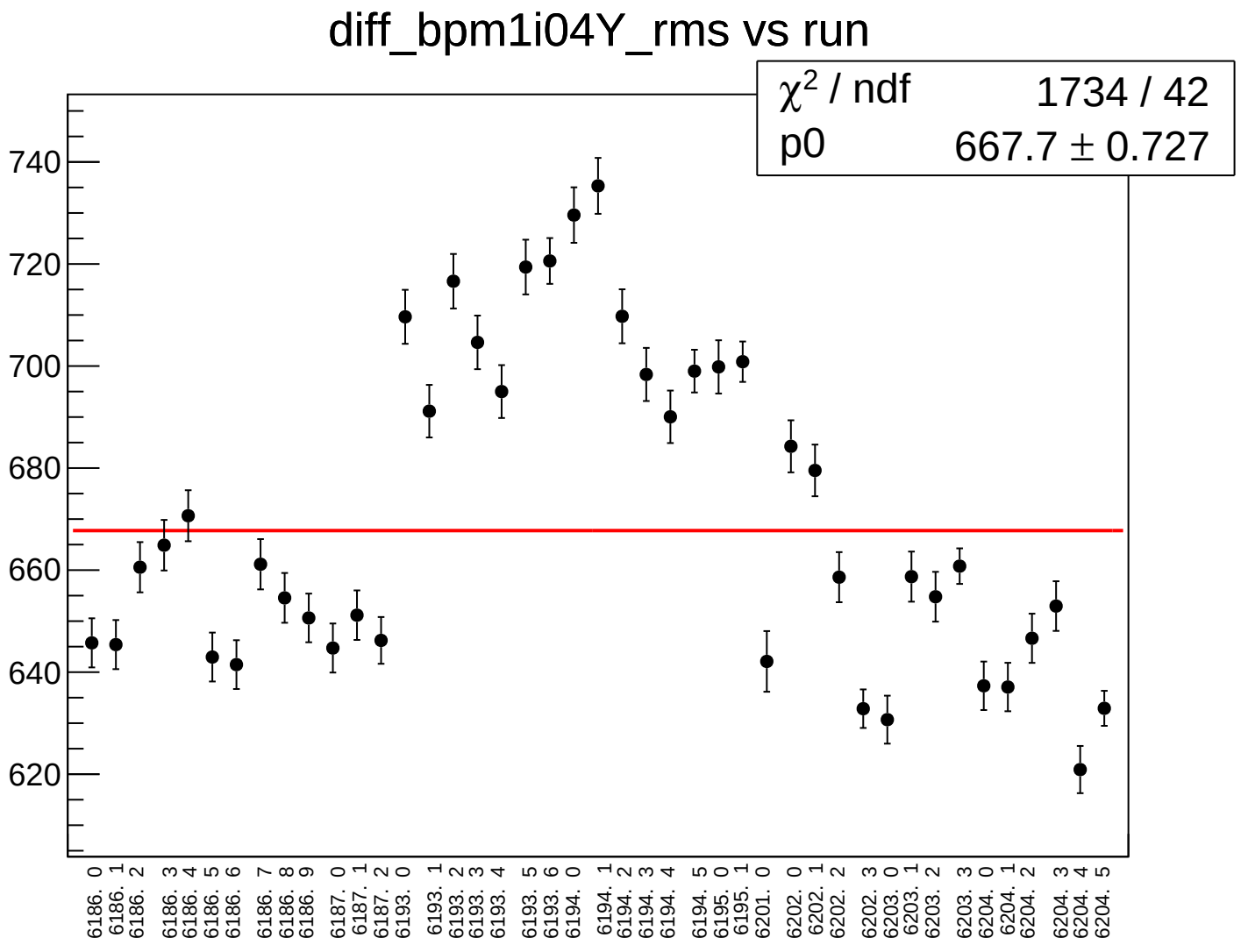

diff_bpm1i04X_mean vs run
χ² / ndf 100.1 / 42
p0 45.37 ± 1.167
pull
Entries 43
Mean −97.31
Std Dev 0

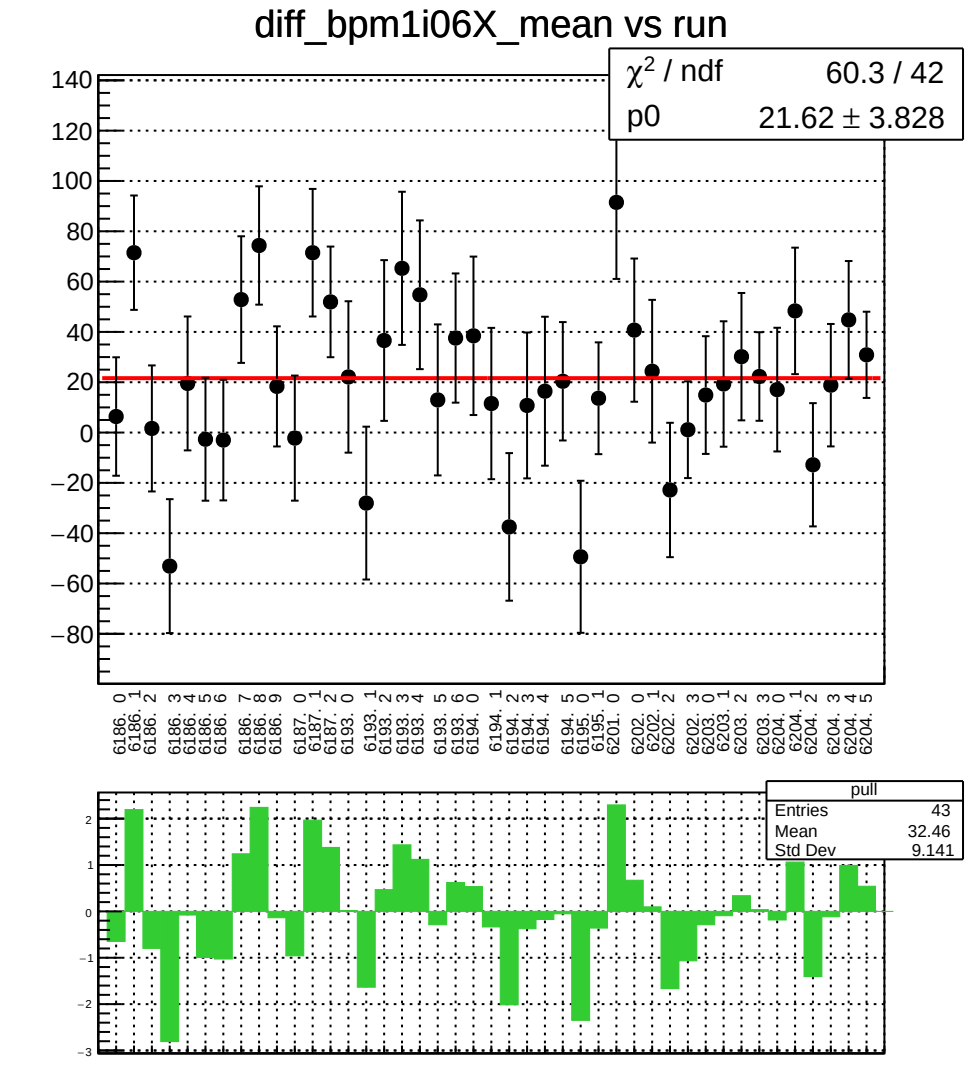

pull1D
Entries 43
Mean 0.07797
Std Dev 1.524

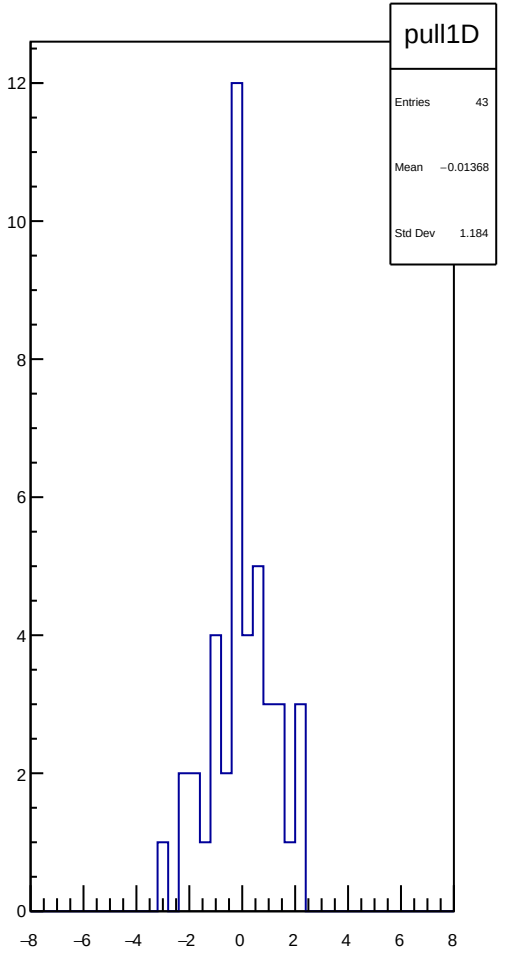

diff_bpm1i04X_rms vs run
χ² / ndf 2337 / 42
p0 757.6 ± 0.8252
840
820
800
780
760
740
720
700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

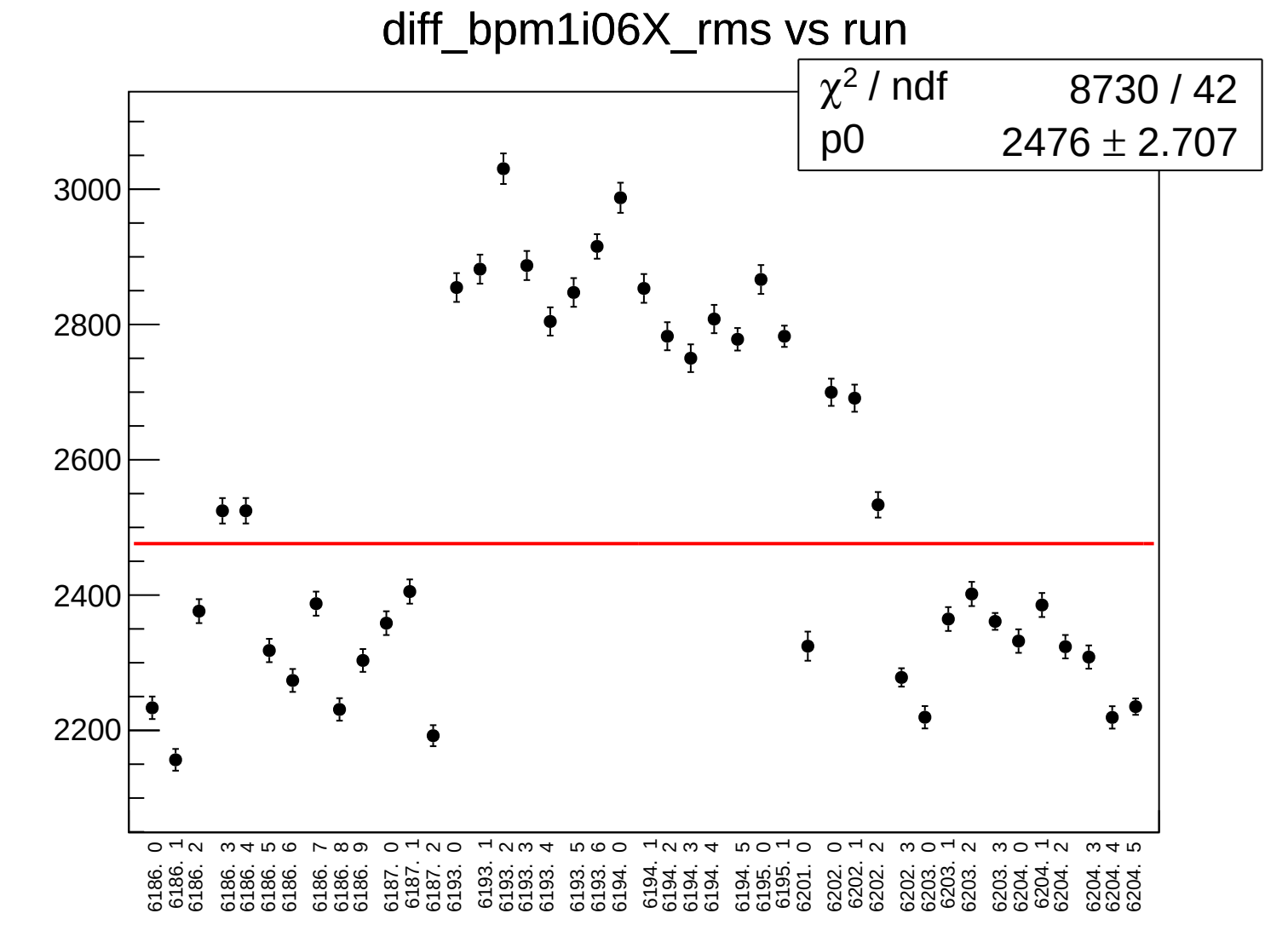

diff_bpm1i04Y_mean vs run
χ² / ndf 47.88 / 42
p0 −11.06 ± 1.028
10
0
−10
−20
−30
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −176.2
Std Dev 0
2
1
0
−1
−2
−3

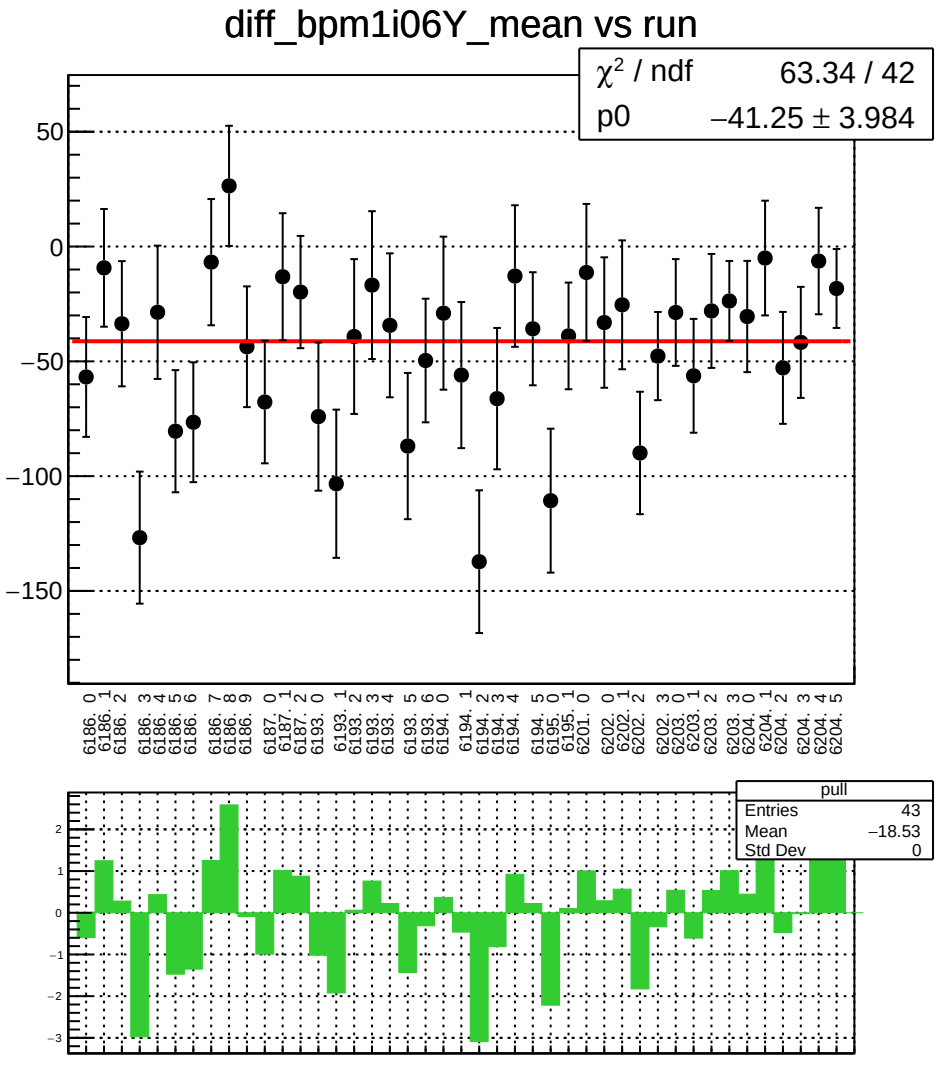

pull1D
Entries 43
Mean −0.0214
Std Dev 1.055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

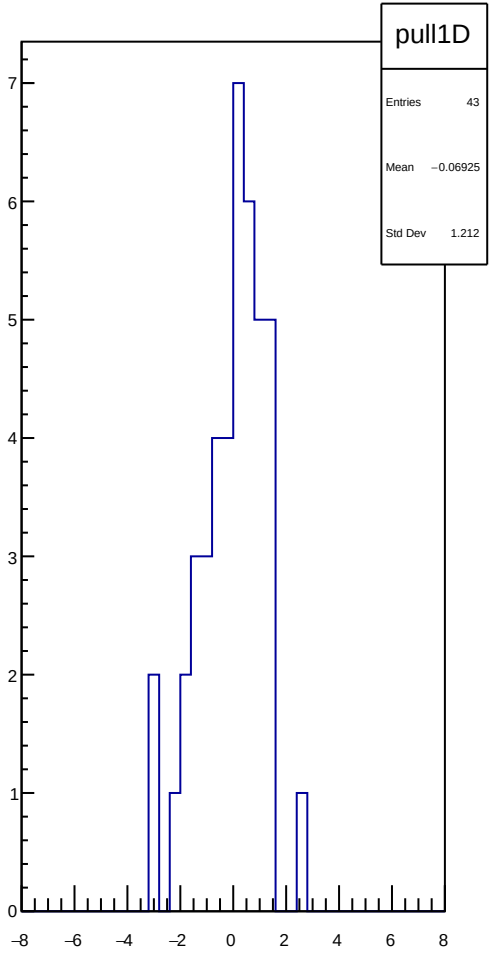

diff_bpm1i04Y_rms vs run
χ^2 / ndf 1734 / 42
p0 667.7 ± 0.727
740
720
700
680
660
640
620
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

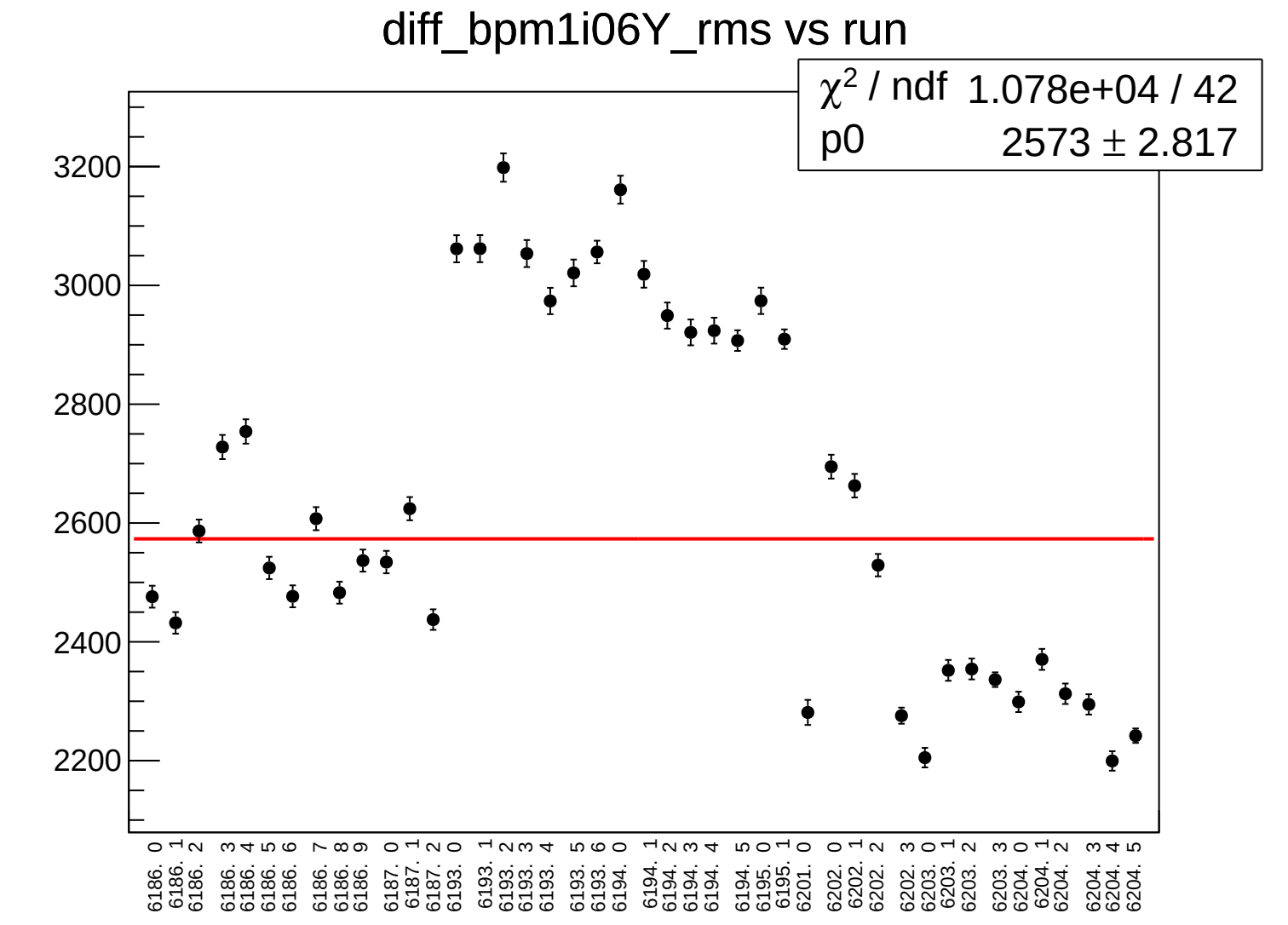

diff_bpm1i06X_mean vs run
χ² / ndf 60.3 / 42
p0 21.62 ± 3.828
pull
Entries 43
Mean 32.46
Std Dev 9.141

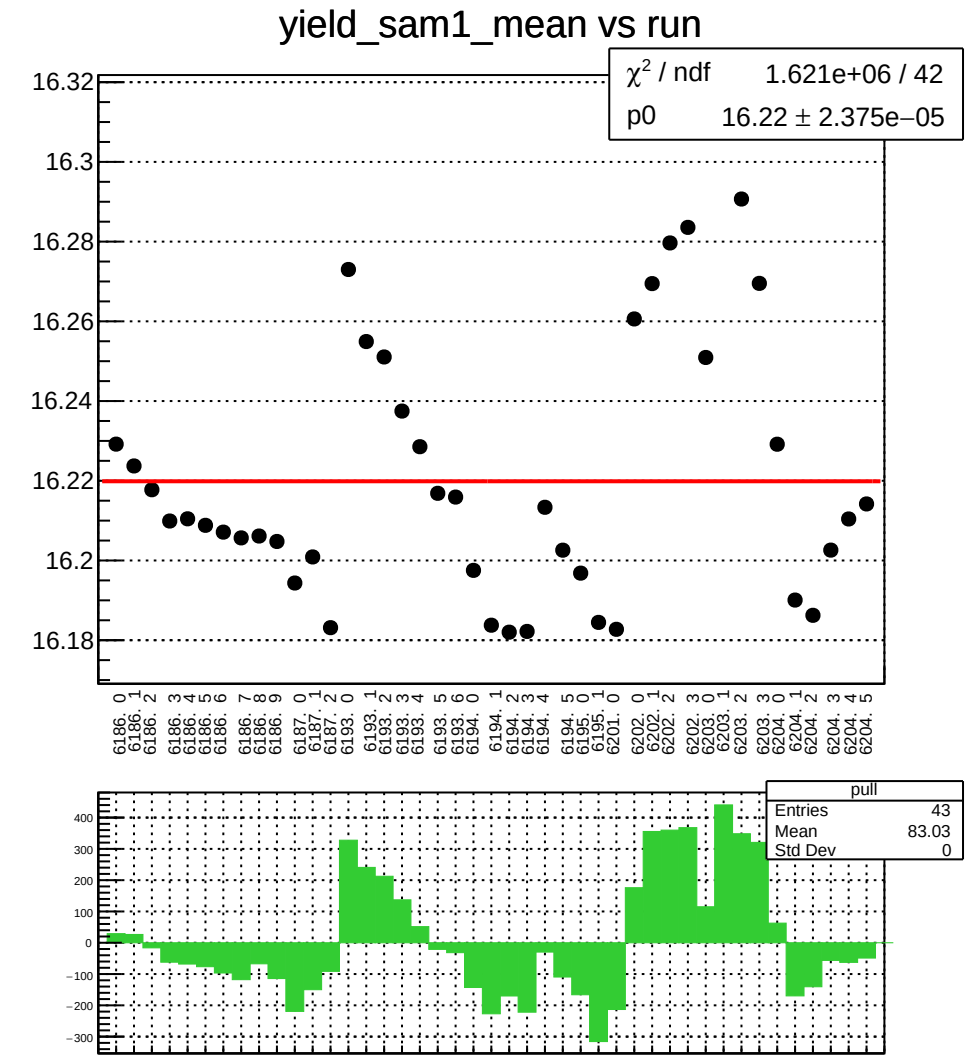

pull1D
Entries 43
Mean −0.01368
Std Dev 1.184

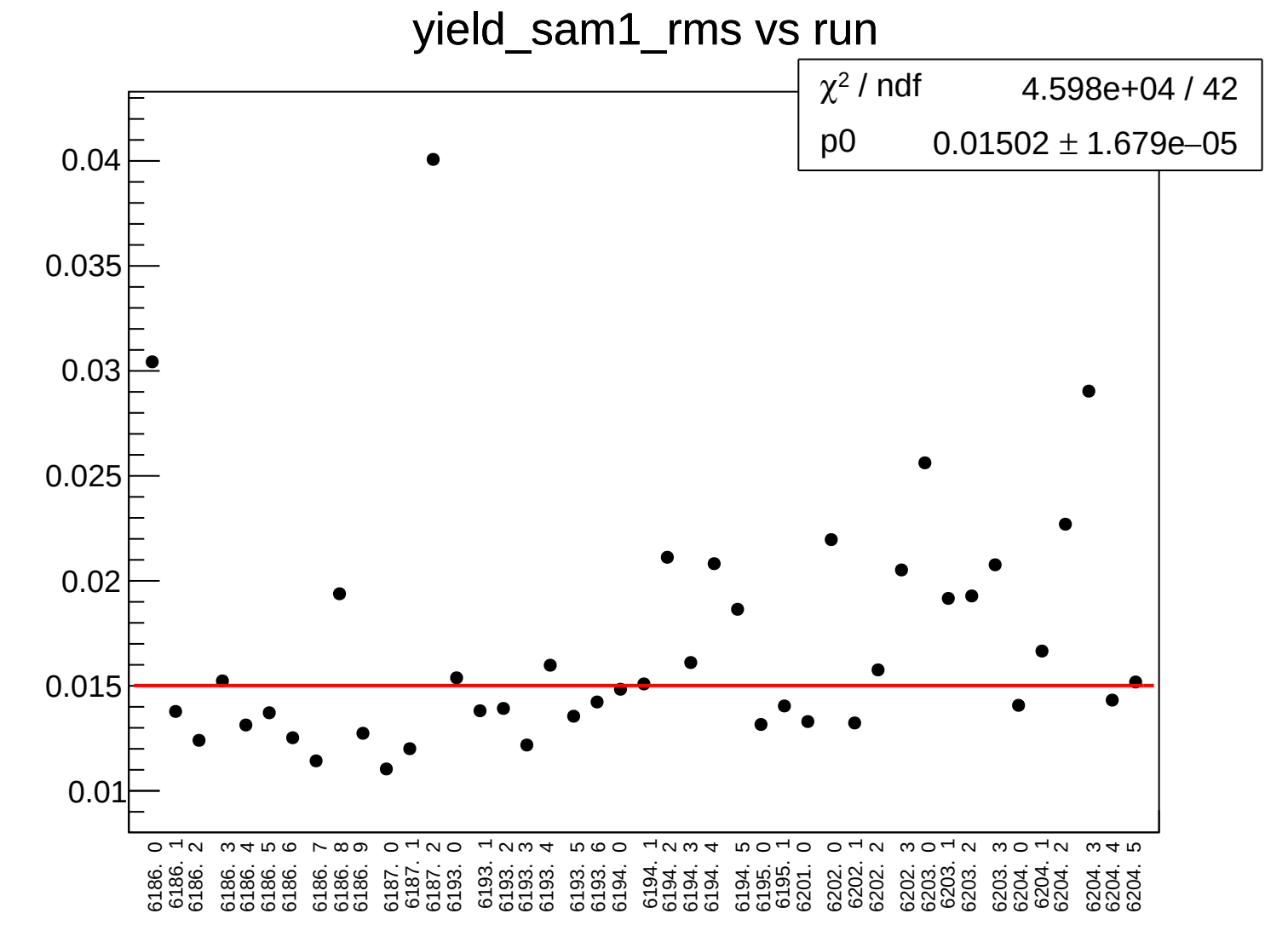

diff_bpm1i06X_rms vs run
χ² / ndf 8730 / 42
p0 2476 ± 2.707
3000
2800
2600
2400
2200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

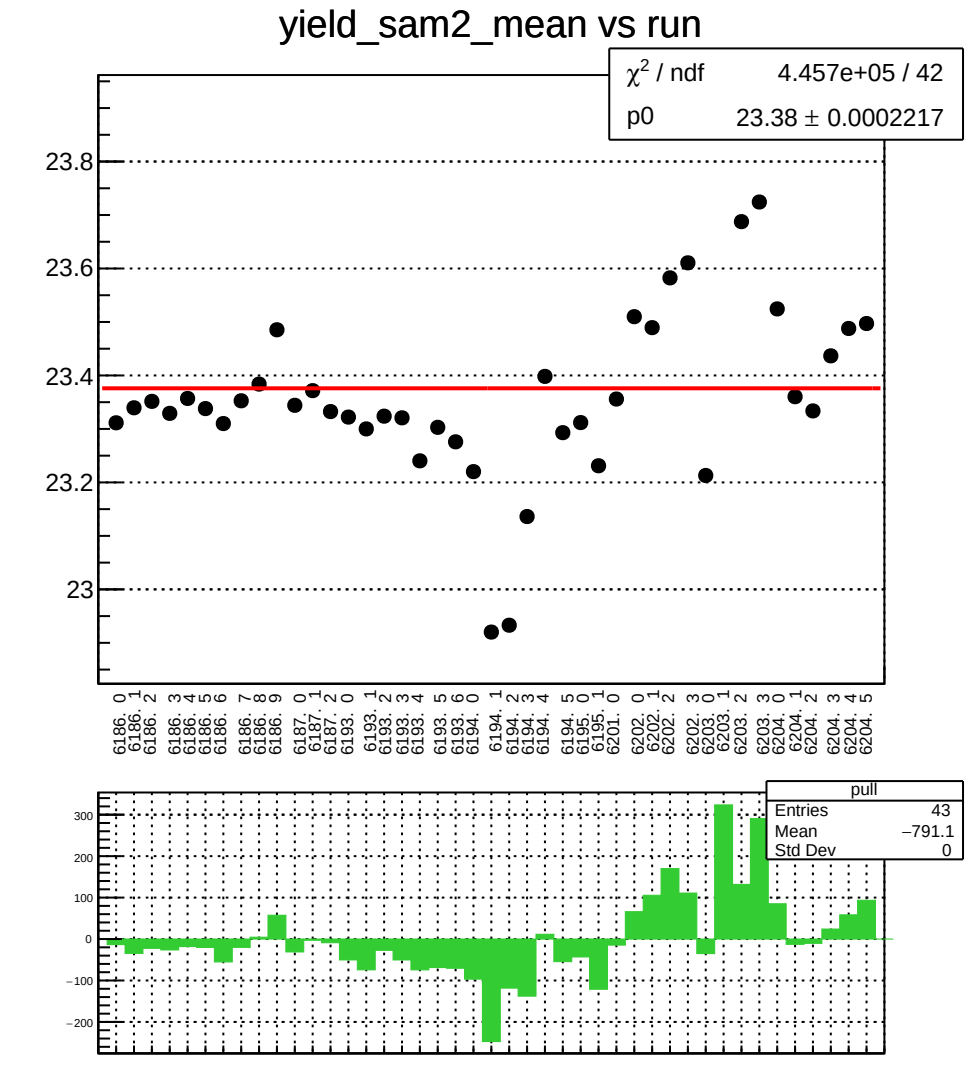

diff_bpm1i06Y_mean vs run
χ² / ndf 63.34 / 42
p0 −41.25 ± 3.984
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −18.53
Std Dev 0
2
1
0
−1
−2
−3

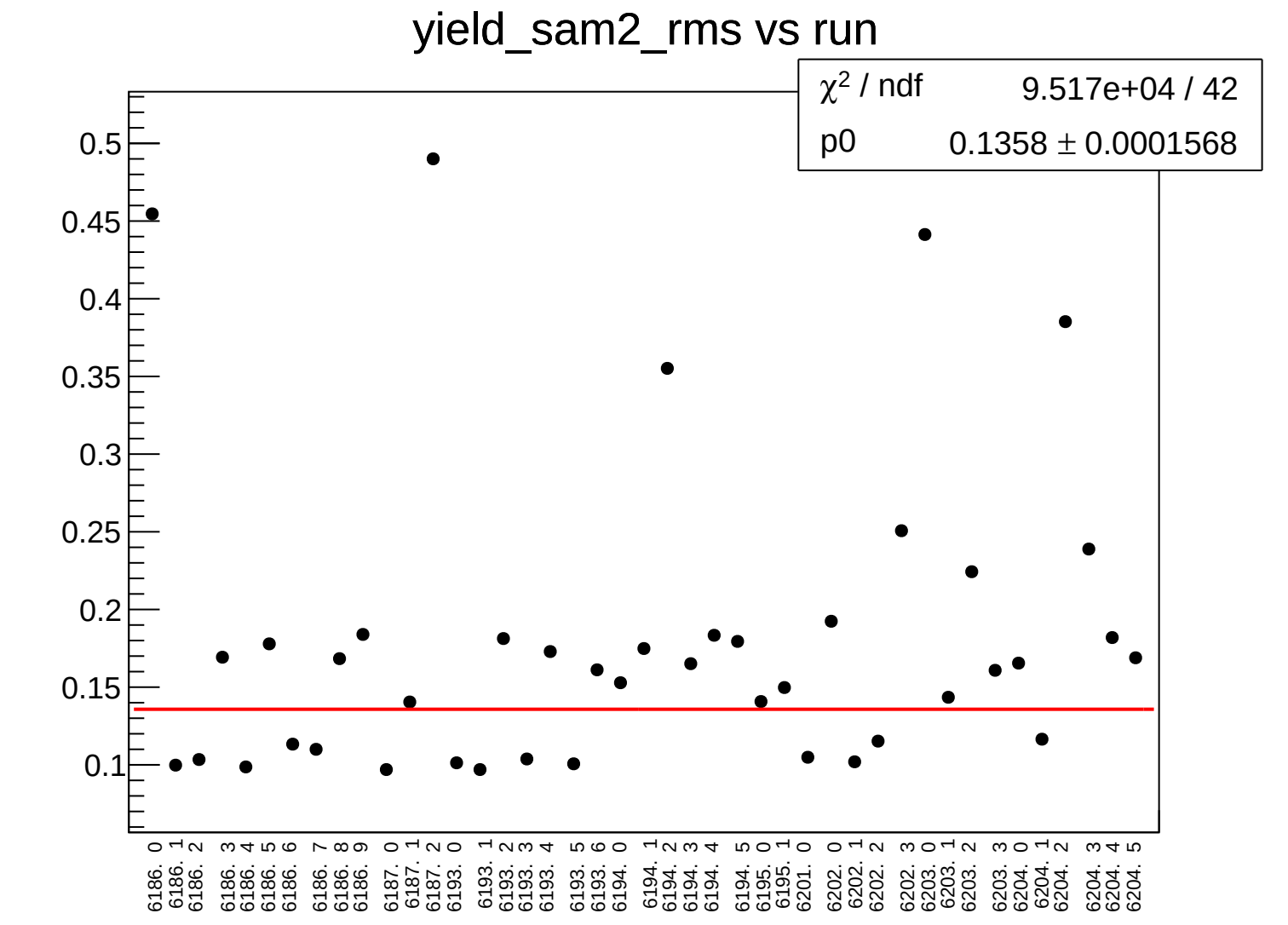

pull1D
Entries 43
Mean −0.06925
Std Dev 1.212
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

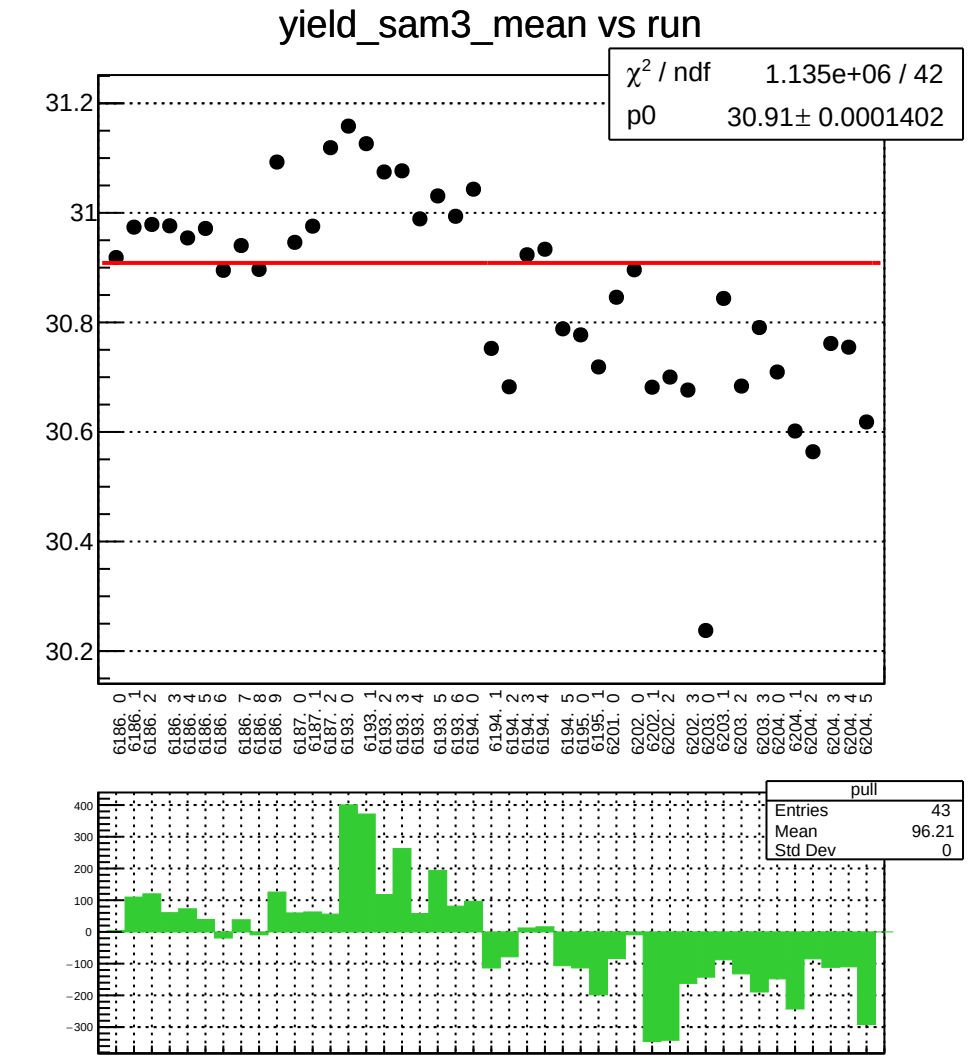

diff_bpm1i06Y_rms vs run
χ² / ndf 1.078e+04 / 42
p0 2573 ± 2.817
3200
3000
2800
2600
2400
2200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

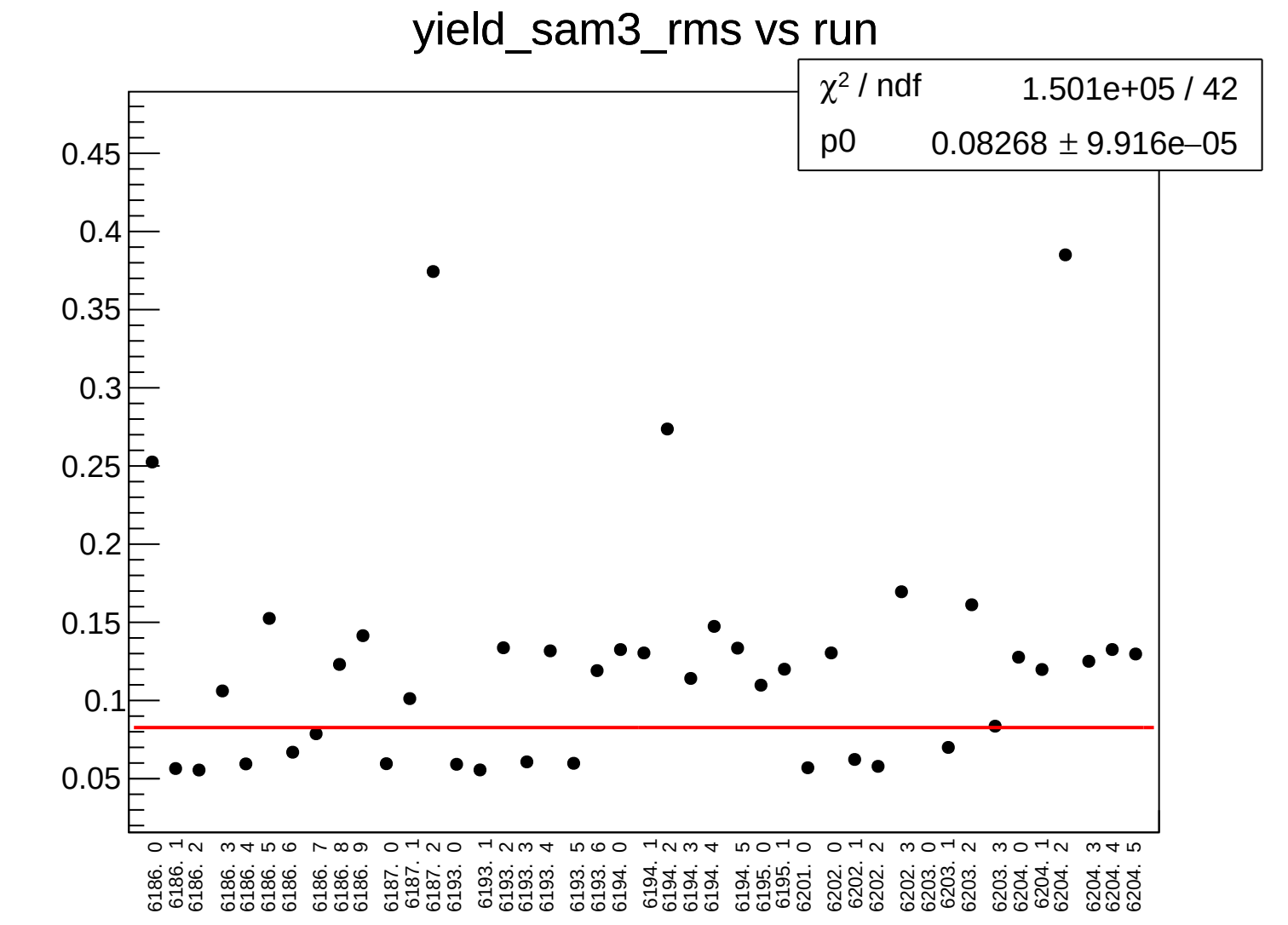

yield_sam1_mean vs run
χ² / ndf 1.621e+06 / 42
p0 16.22 ± 2.375e−05
16.32
16.3
16.28
16.26
16.24
16.22
16.2
16.18
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 83.03
Std Dev 0
400
300
200
100
0
−100
−200
−300
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

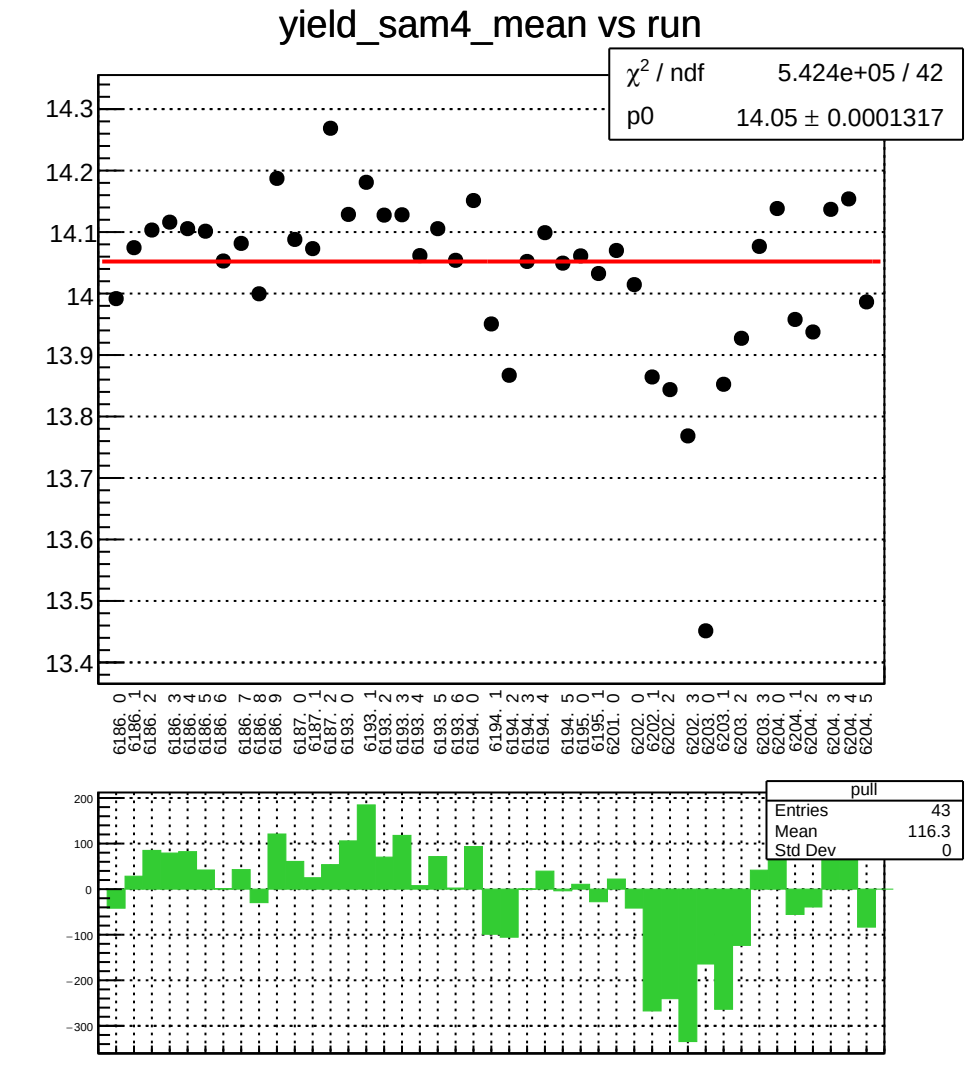

yield_sam1_rms vs run
χ² / ndf 4.598e+04 / 42
p0 0.01502 ± 1.679e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

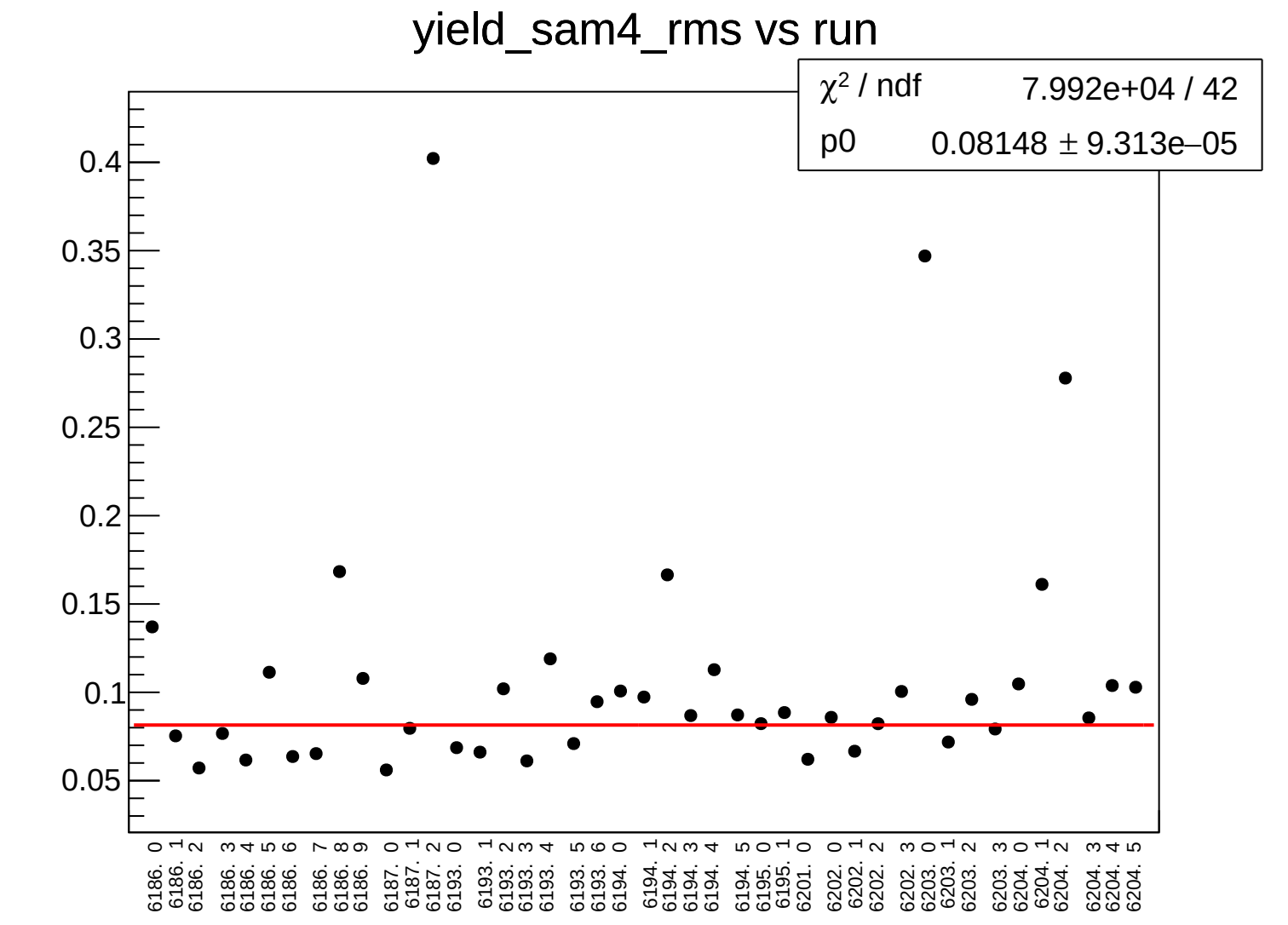

yield_sam2_mean vs run
χ² / ndf 4.457e+05 / 42
p0 23.38 ± 0.0002217
23.8
23.6
23.4
23.2
23
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −791.1
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 43
Mean 0.7504
Std Dev 3.695
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

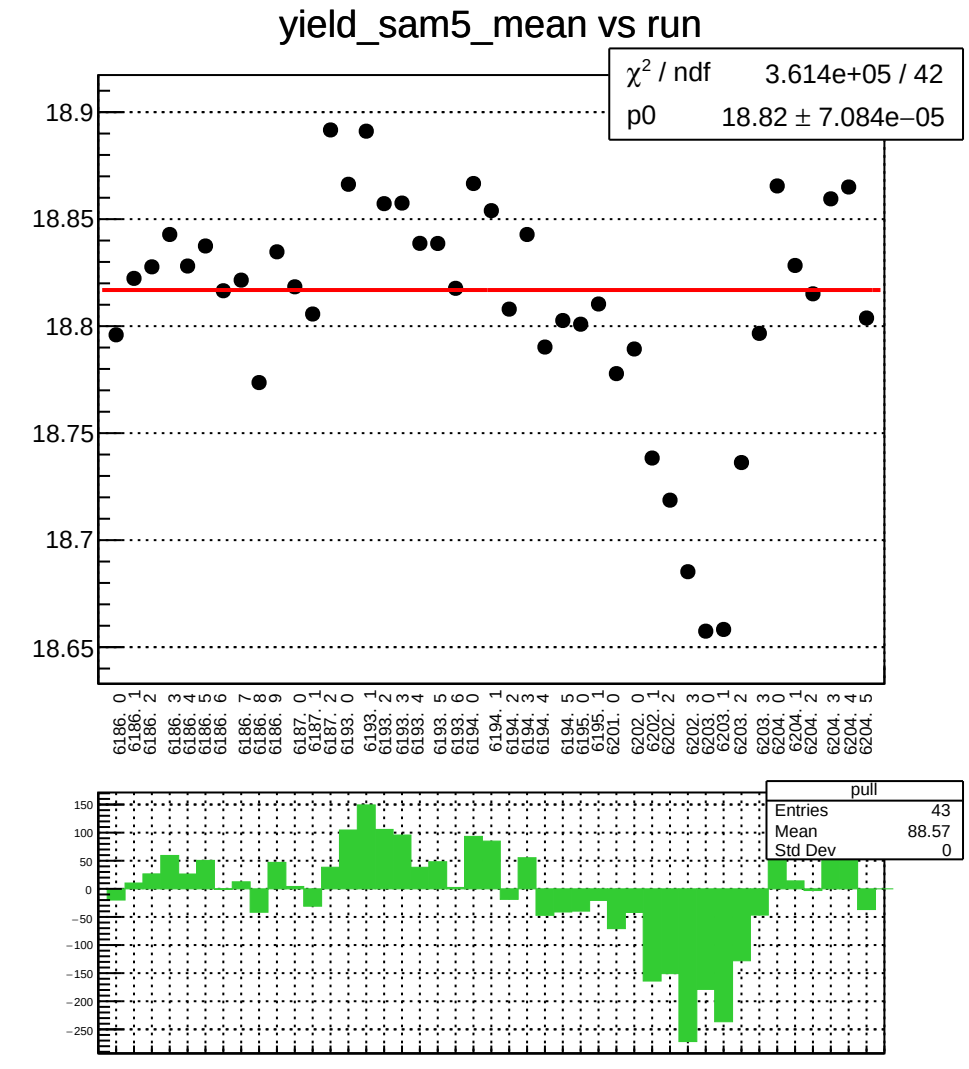

yield_sam2_rms vs run
χ² / ndf 9.517e+04 / 42
p0 0.1358 ± 0.0001568
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

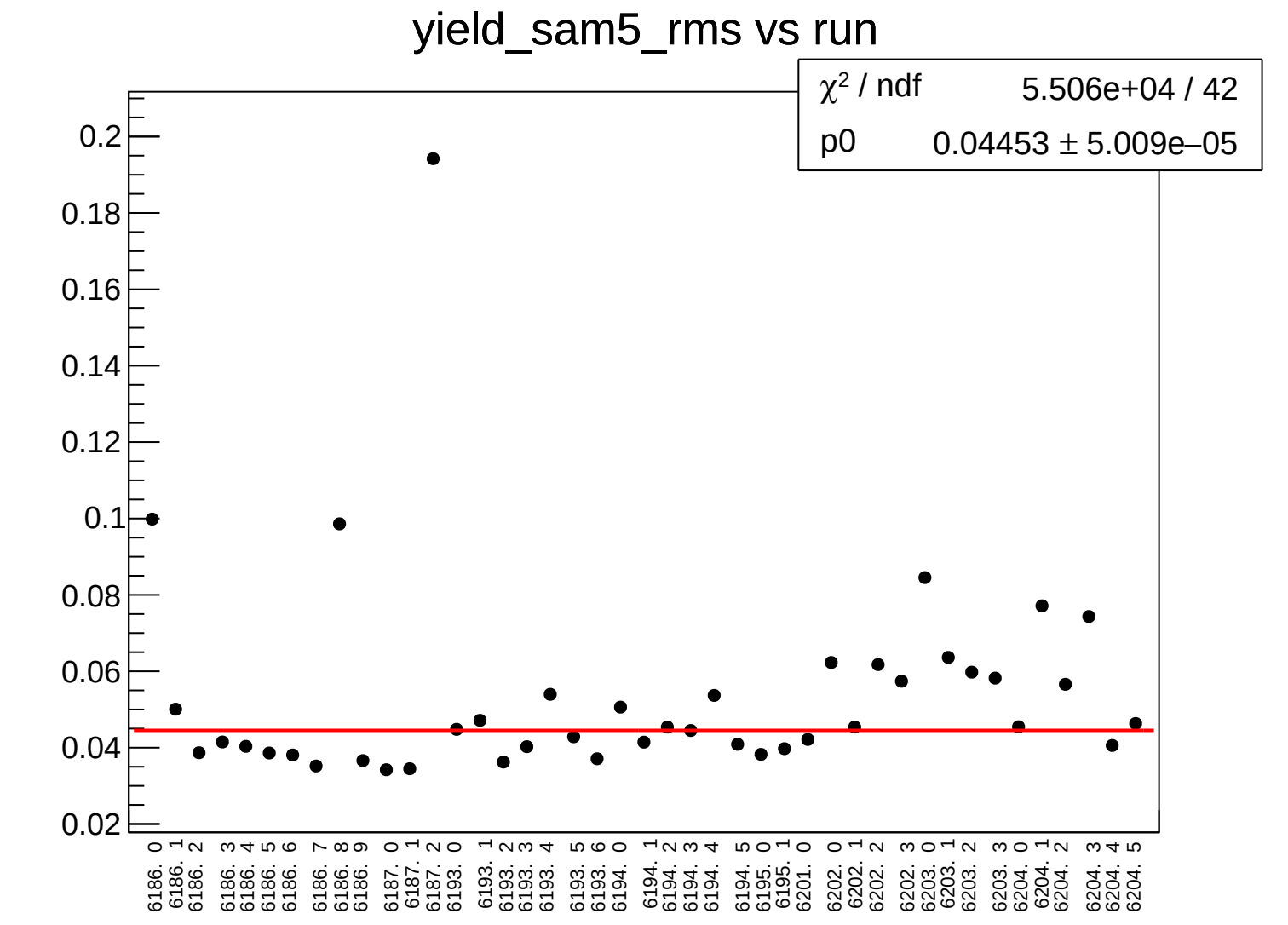

yield_sam3_mean vs run
χ² / ndf 1.135e+06 / 42
p0 30.91± 0.0001402
31.2
31
30.8
30.6
30.4
30.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 96.21
Std Dev 0
400
300
200
100
0
−100
−200
−300
pull1D
Entries 43
Mean 3.705
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

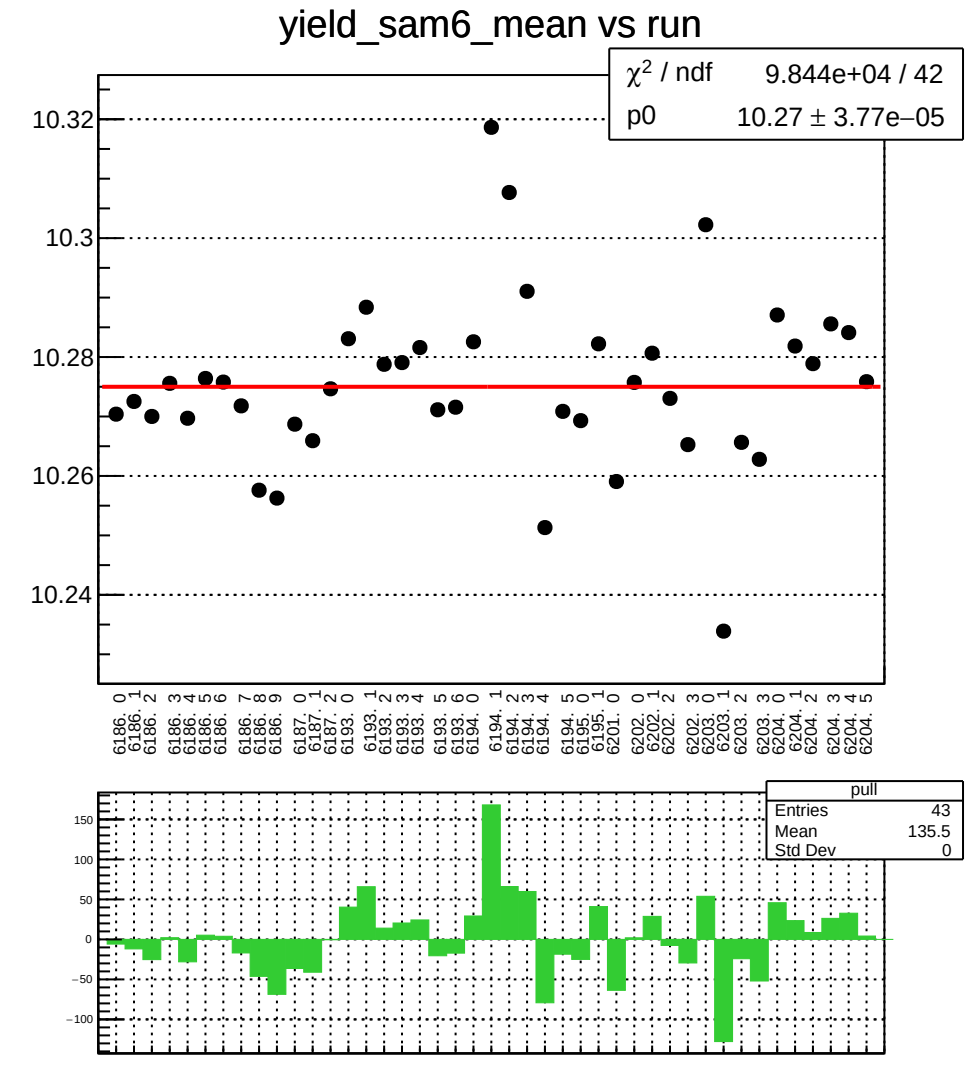

yield_sam3_rms vs run
χ² / ndf 1.501e+05 / 42
p0 0.08268 ± 9.916e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

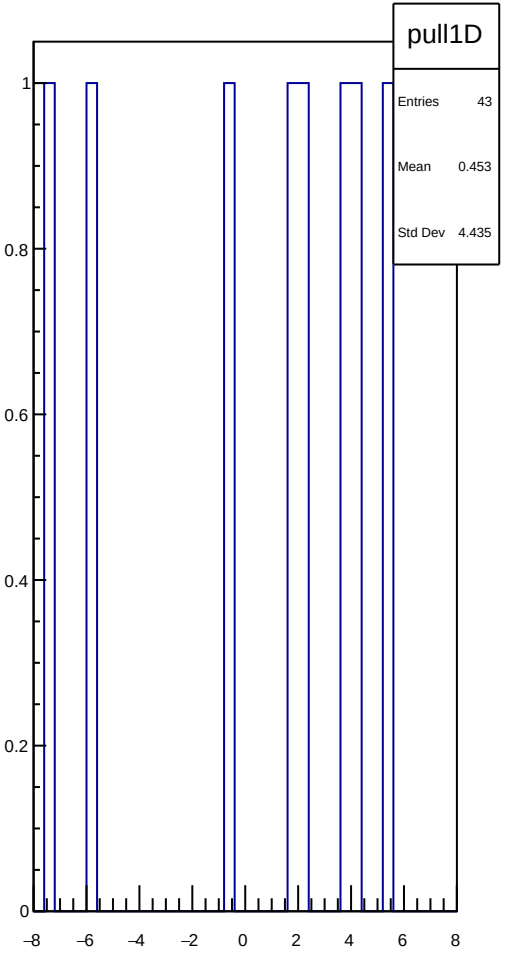

yield_sam4_mean vs run
χ² / ndf 5.424e+05 / 42
p0 14.05 ± 0.0001317
14.3
14.2
14.1
14
13.9
13.8
13.7
13.6
13.5
13.4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 116.3
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 43
Mean 1.566
Std Dev 3.653
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

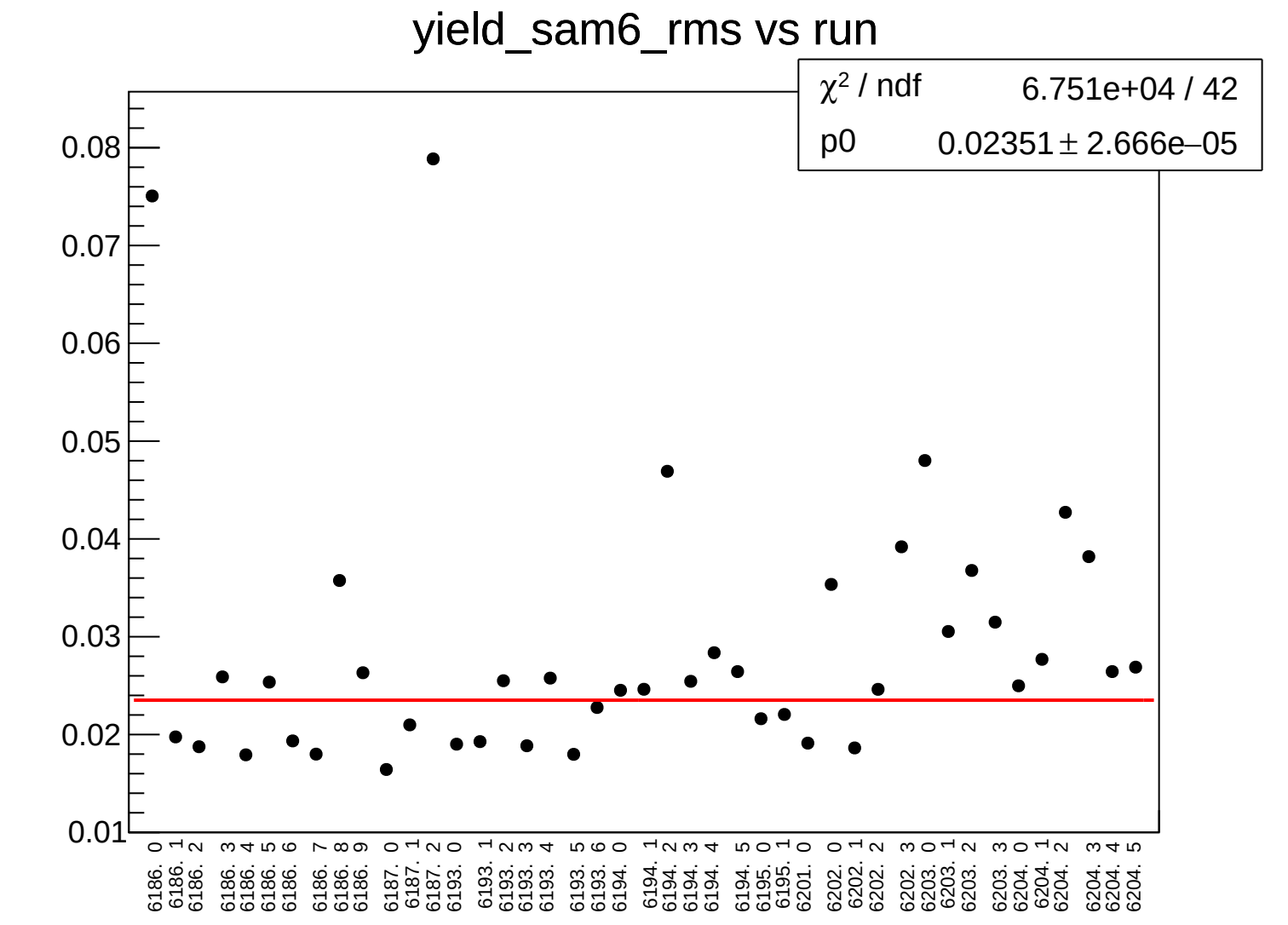

yield_sam4_rms vs run
χ² / ndf 7.992e+04 / 42
p0 0.08148 ± 9.313e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

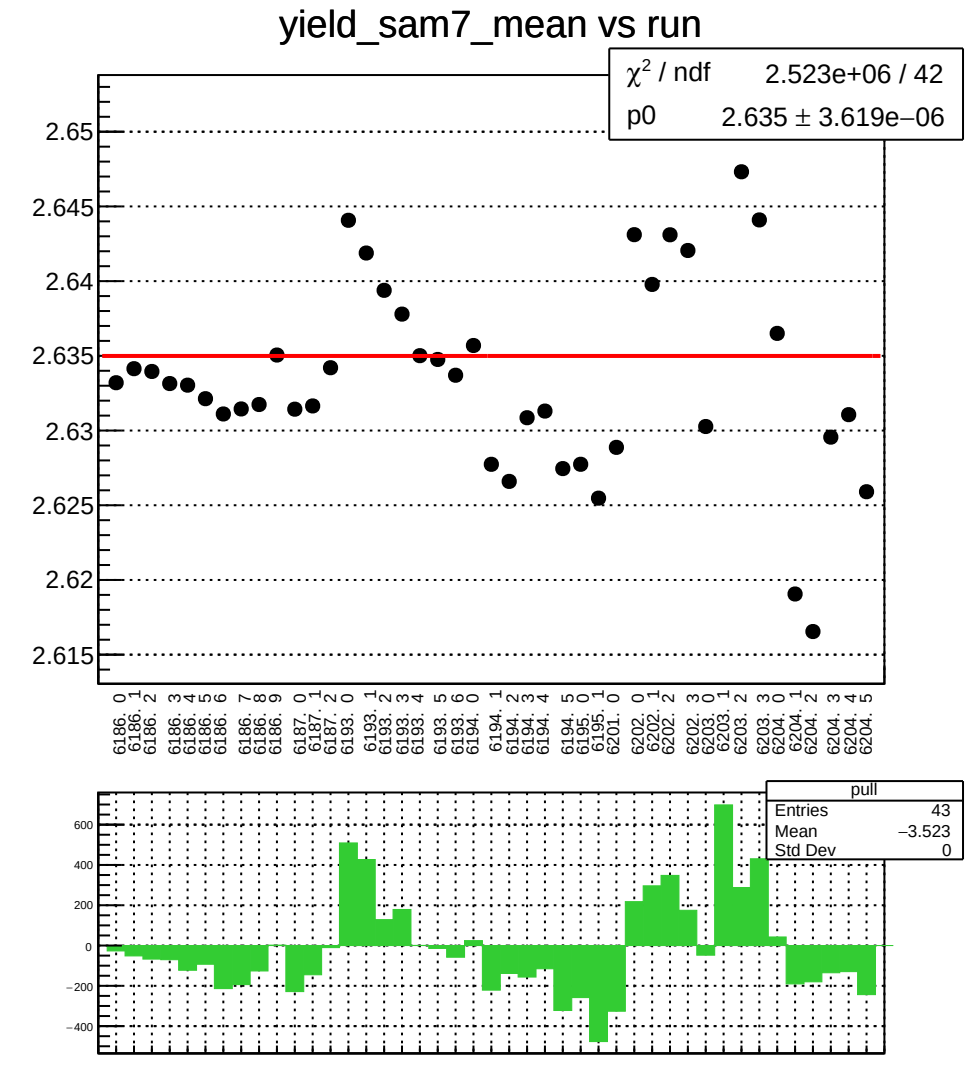

yield_sam5_mean vs run
χ² / ndf 3.614e+05 / 42
p0 18.82 ± 7.084e−05
18.9
18.85
18.8
18.75
18.7
18.65
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 88.57
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 43
Mean 0.7059
Std Dev 2.78
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

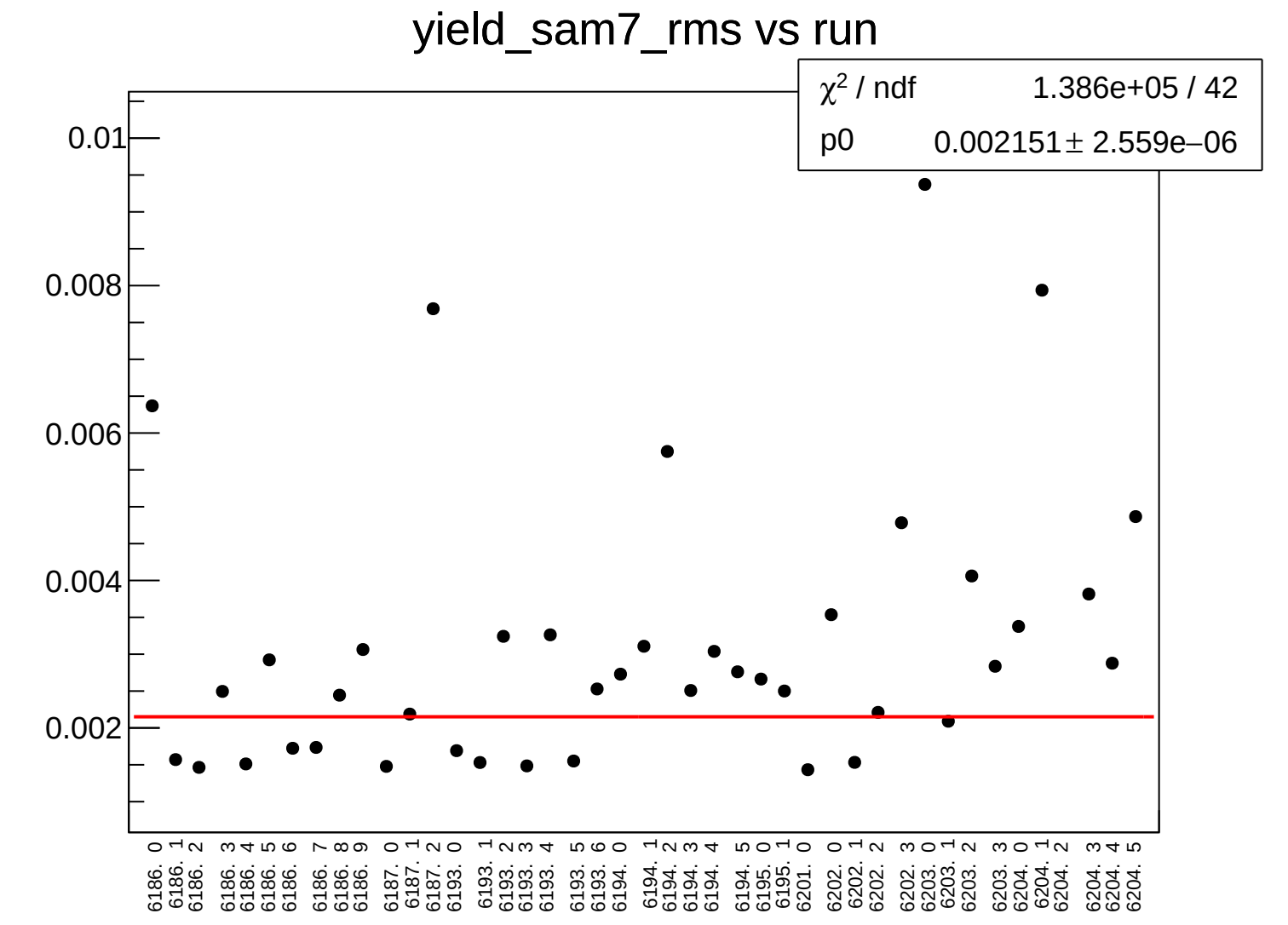

yield_sam5_rms vs run
χ² / ndf 5.506e+04 / 42
p0 0.04453 ± 5.009e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

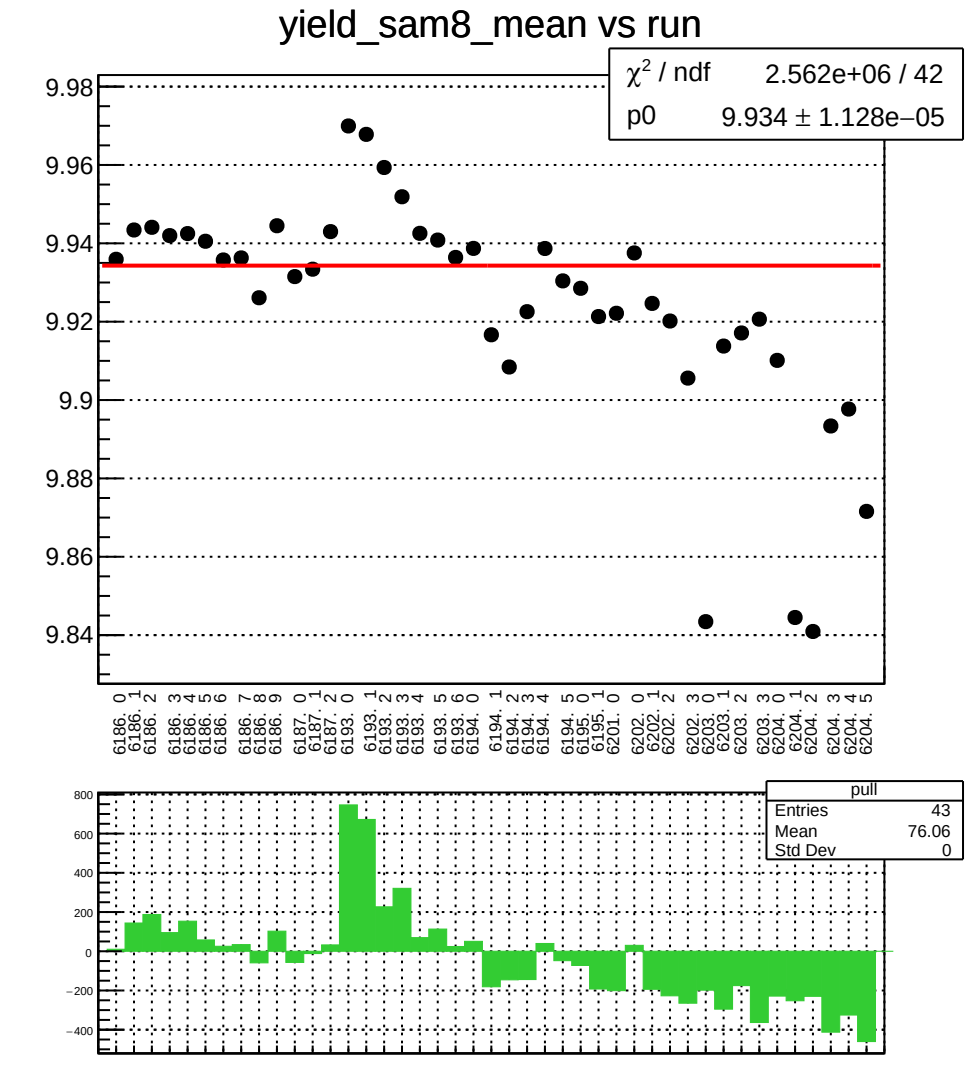

yield_sam6_mean vs run
χ² / ndf 9.844e+04 / 42
p0 10.27 ± 3.77e−05
10.32
10.3
10.28
10.26
10.24
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 135.5
Std Dev 0
150
100
50
0
−50
−100

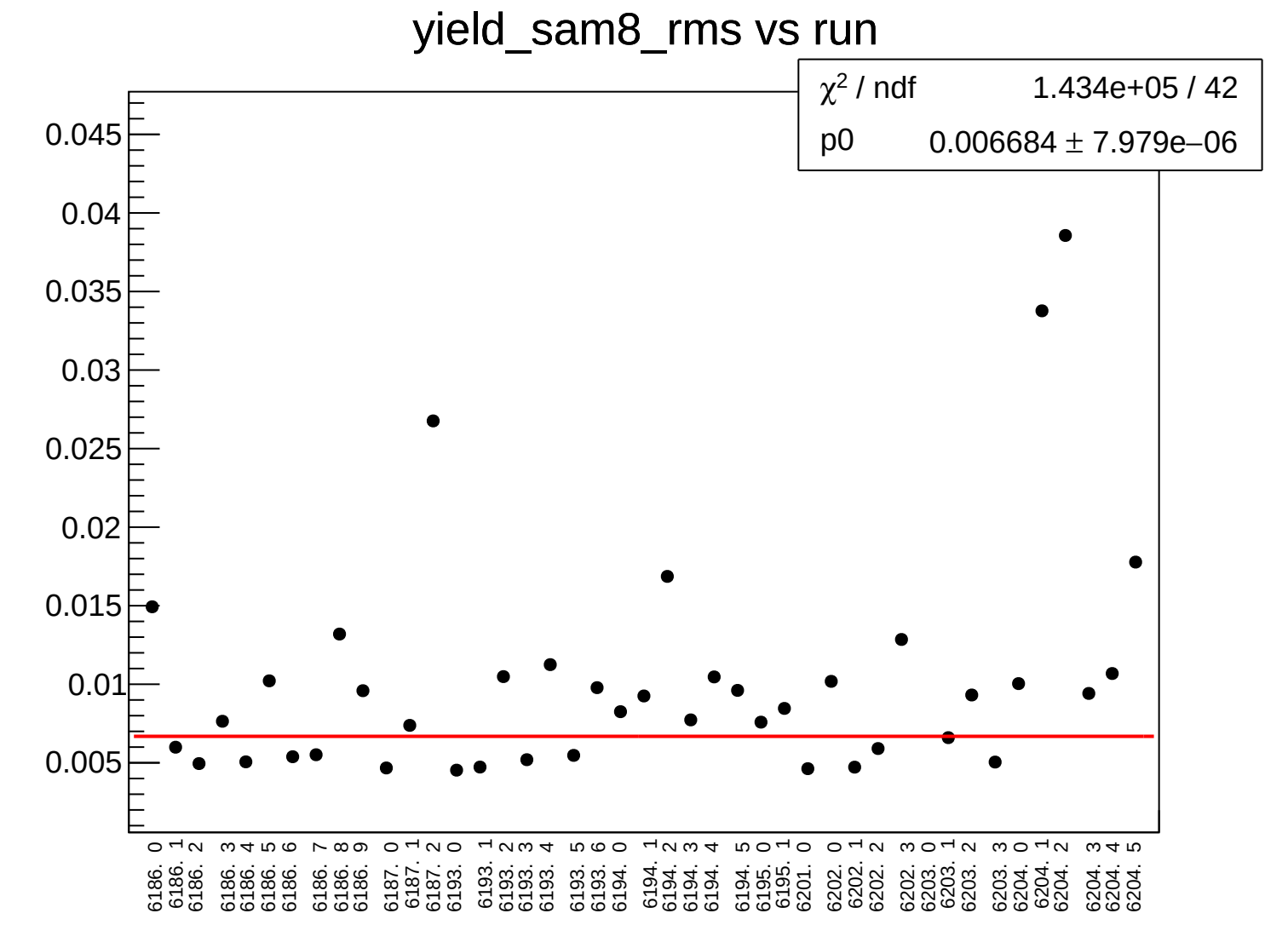

pull1D
Entries 43
Mean 0.453
Std Dev 4.435
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

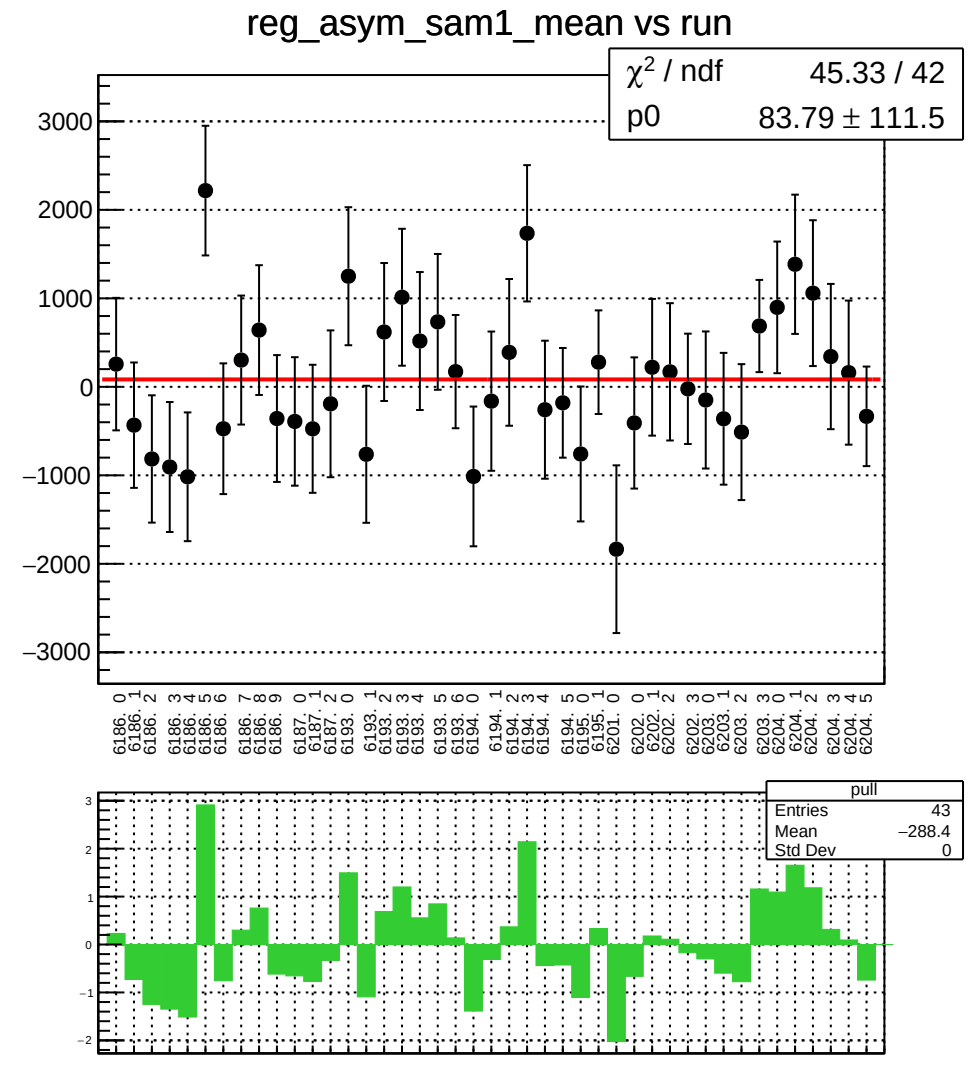

yield_sam6_rms vs run
χ² / ndf 6.751e+04 / 42
p0 0.02351 ± 2.666e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

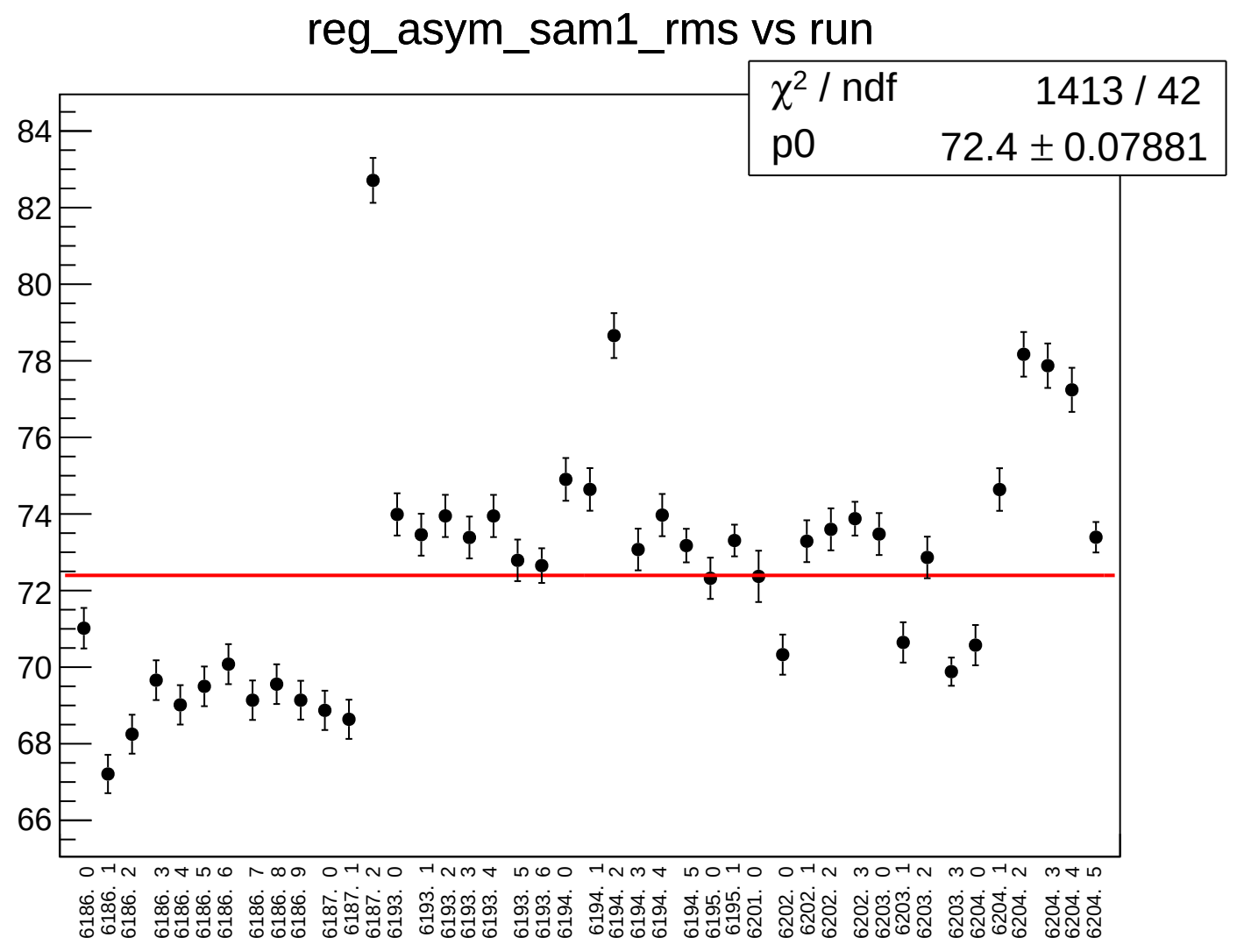

yield_sam7_mean vs run
χ² / ndf 2.523e+06 / 42
p0 2.635 ± 3.619e−06
2.65
2.645
2.64
2.635
2.63
2.625
2.62
2.615
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3.523
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 43
Mean 1.239
Std Dev 0.6826
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

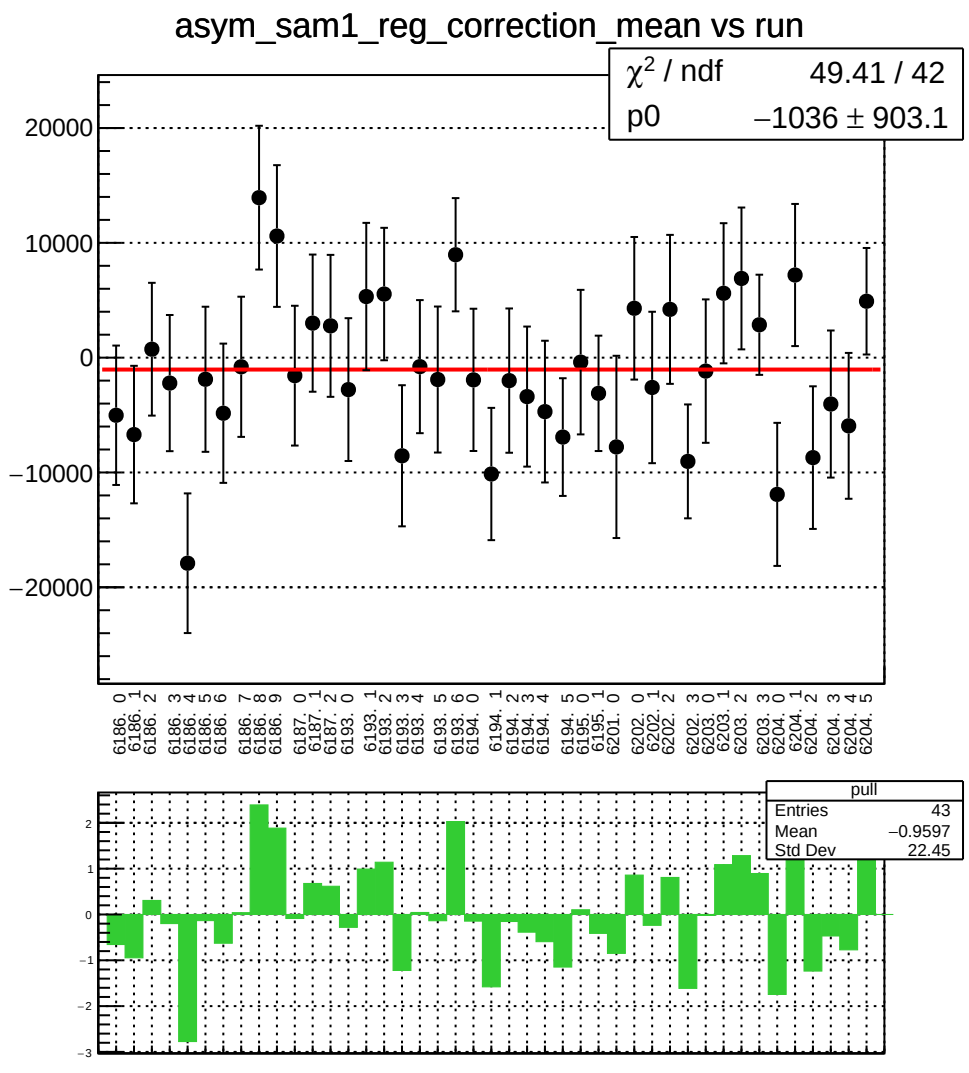

yield_sam7_rms vs run
χ² / ndf 1.386e+05 / 42
p0 0.002151 ± 2.559e−06
0.01
0.008
0.006
0.004
0.002
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

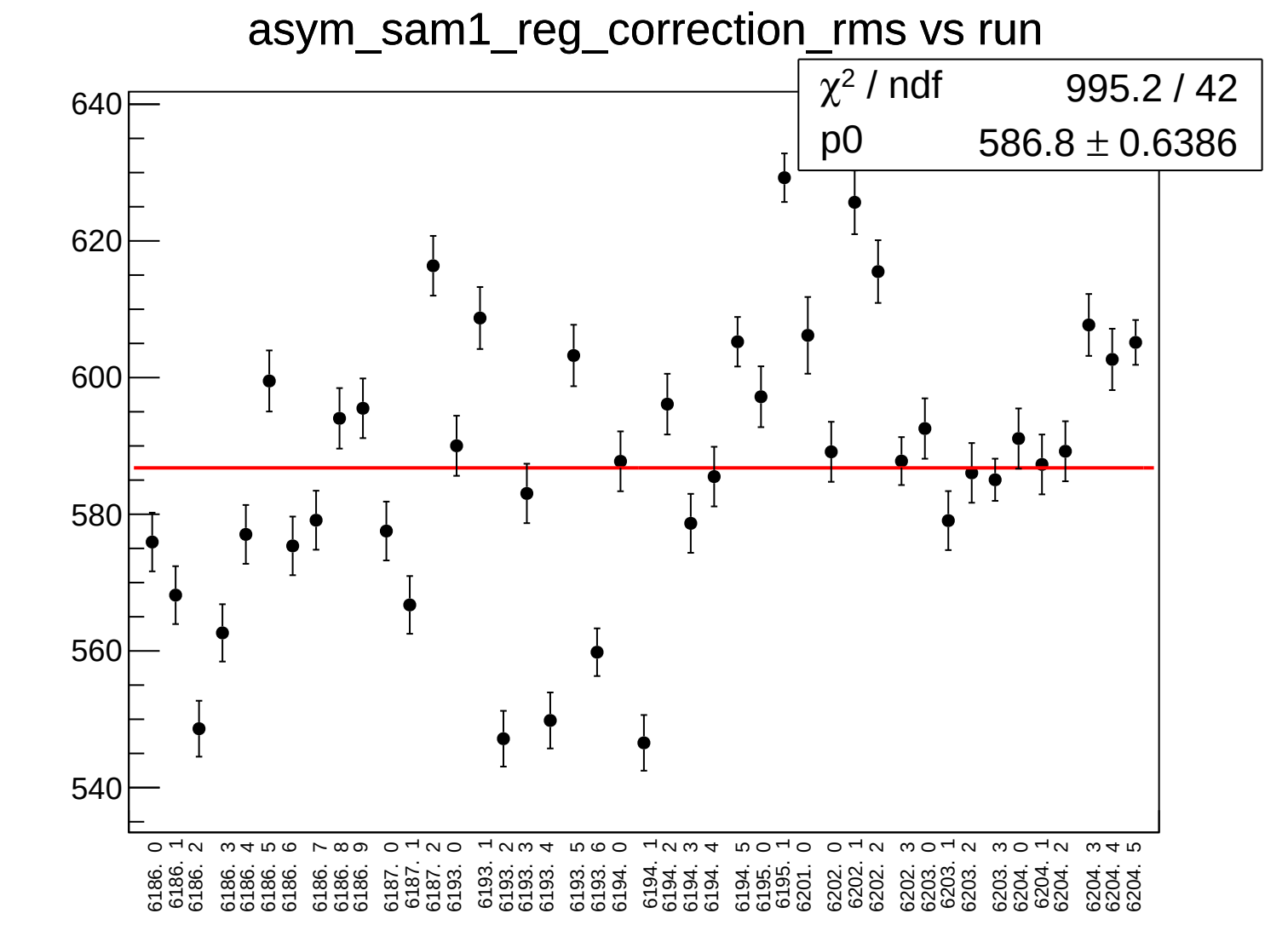

yield_sam8_mean vs run
χ² / ndf 2.562e+06 / 42
p0 9.934 ± 1.128e−05
9.98
9.96
9.94
9.92
9.9
9.88
9.86
9.84
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 76.06
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

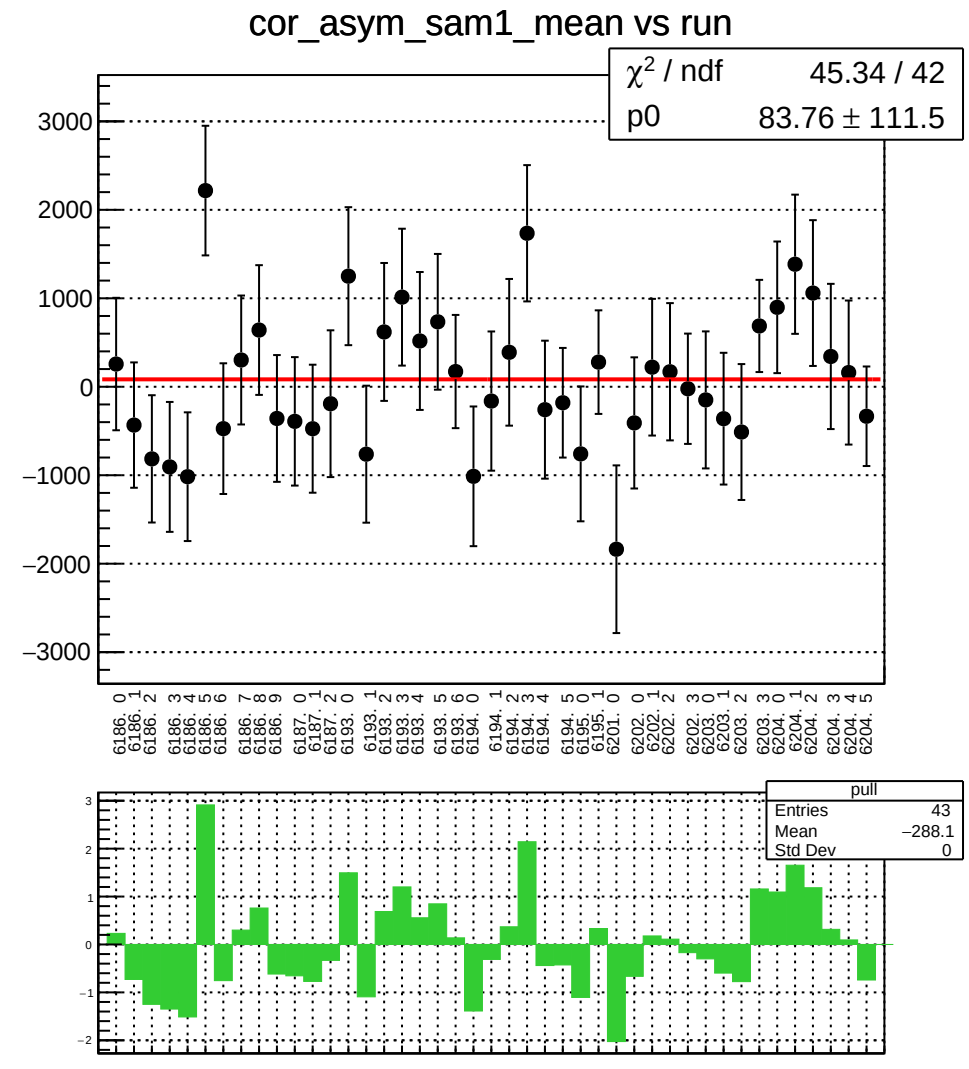

yield_sam8_rms vs run
χ² / ndf 1.434e+05 / 42
p0 0.006684 ± 7.979e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

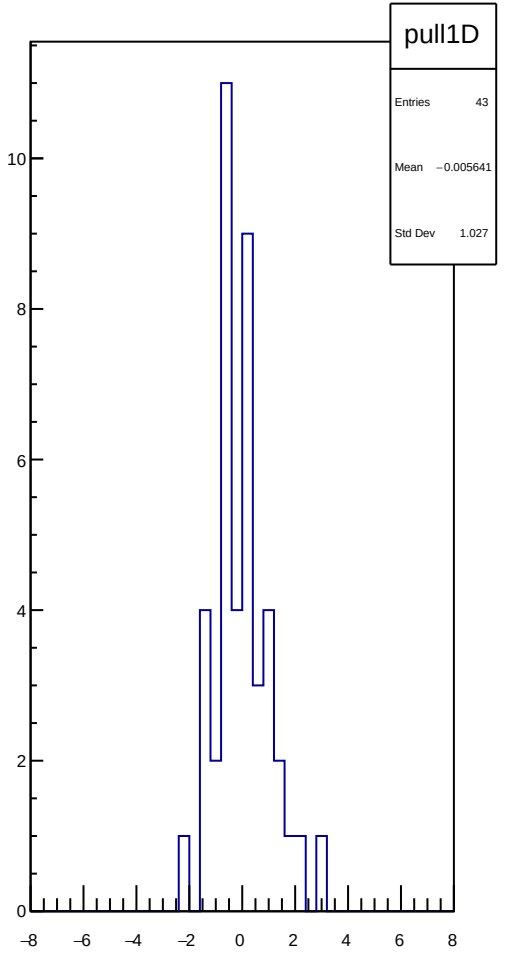

reg_asym_sam1_mean vs run
χ² / ndf 45.33 / 42
p0 83.79 ± 111.5
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −288.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.005637
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

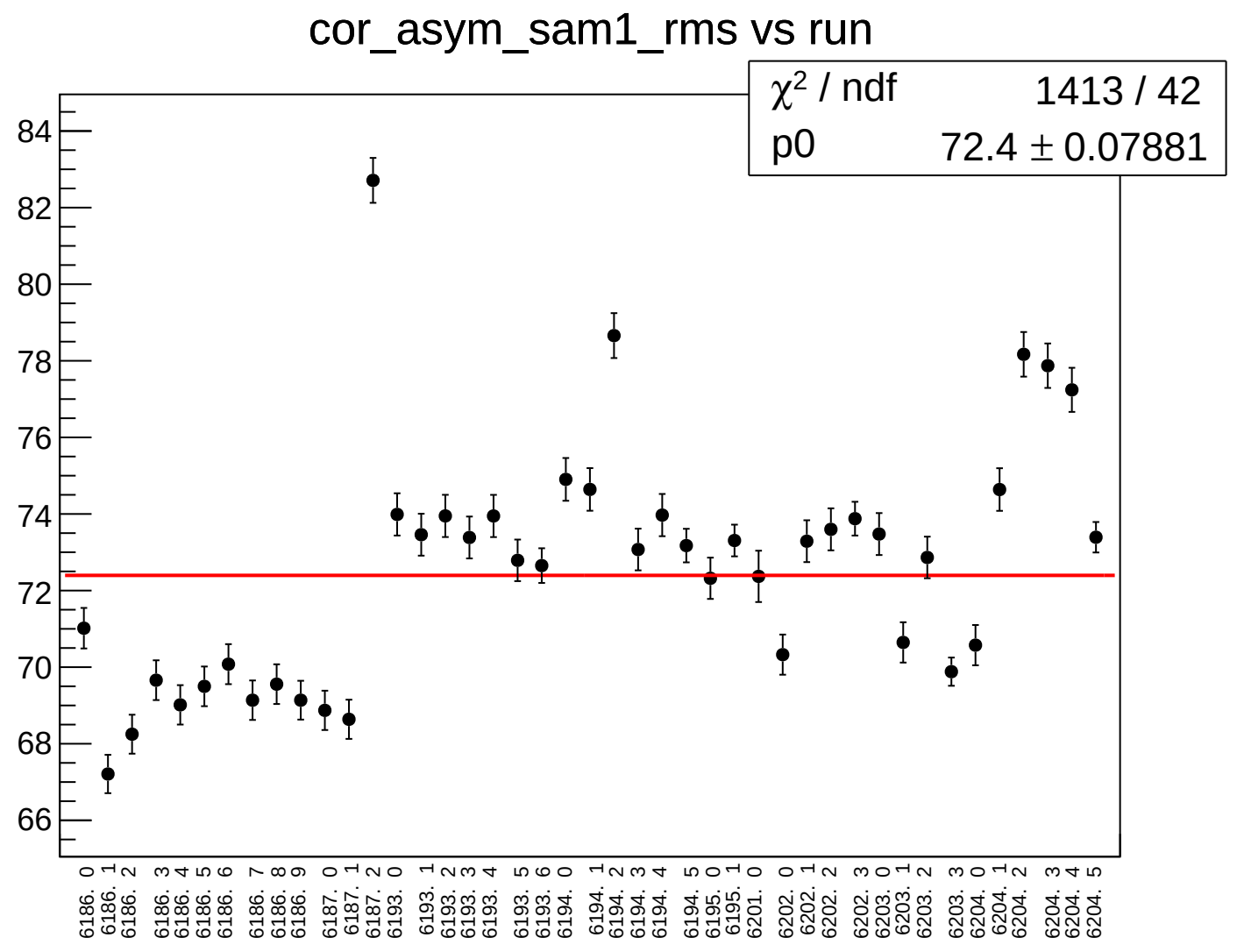

reg_asym_sam1_rms vs run
χ² / ndf 1413 / 42
p0 72.4 ± 0.07881
84
82
80
78
76
74
72
70
68
66
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

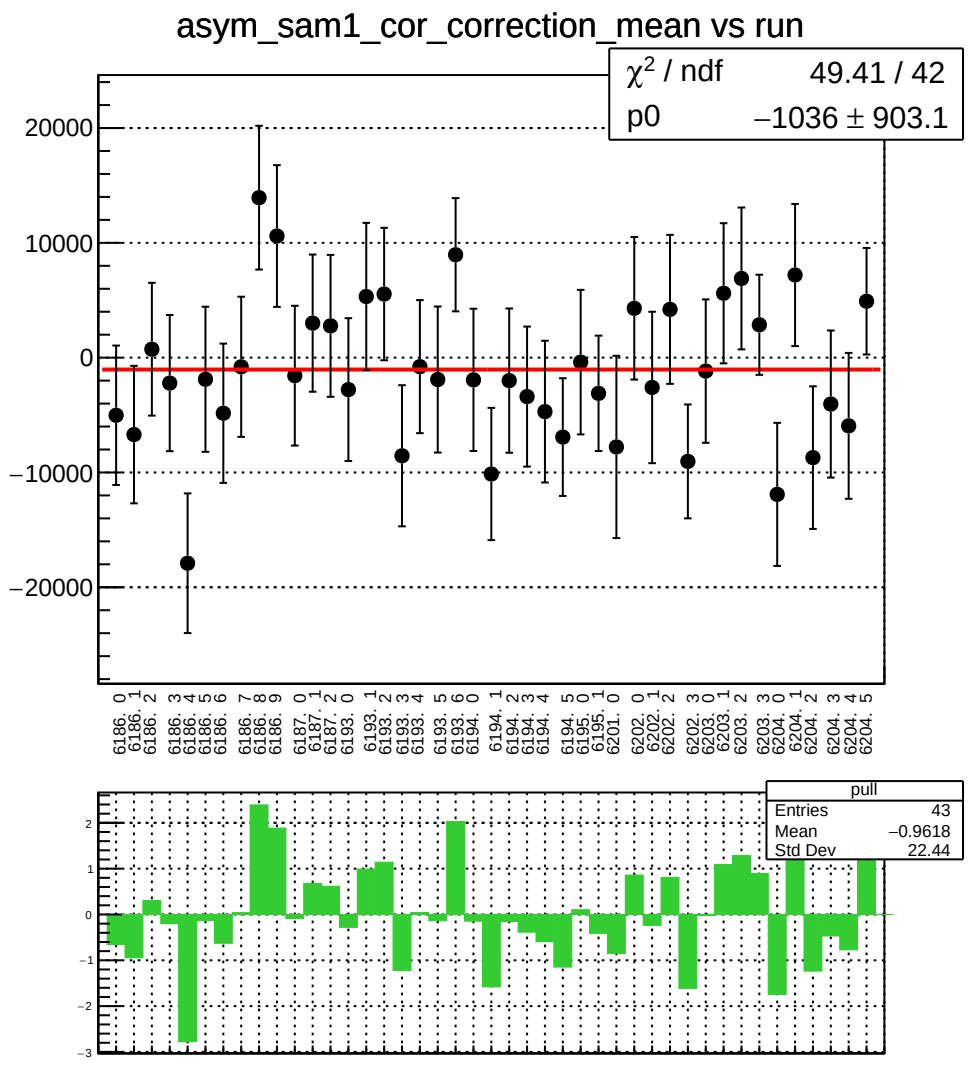

asym_sam1_reg_correction_mean vs run
χ² / ndf 49.41 / 42
p0 −1036 ± 903.1
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −0.9597
Std Dev 22.45
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01519
Std Dev 1.072
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

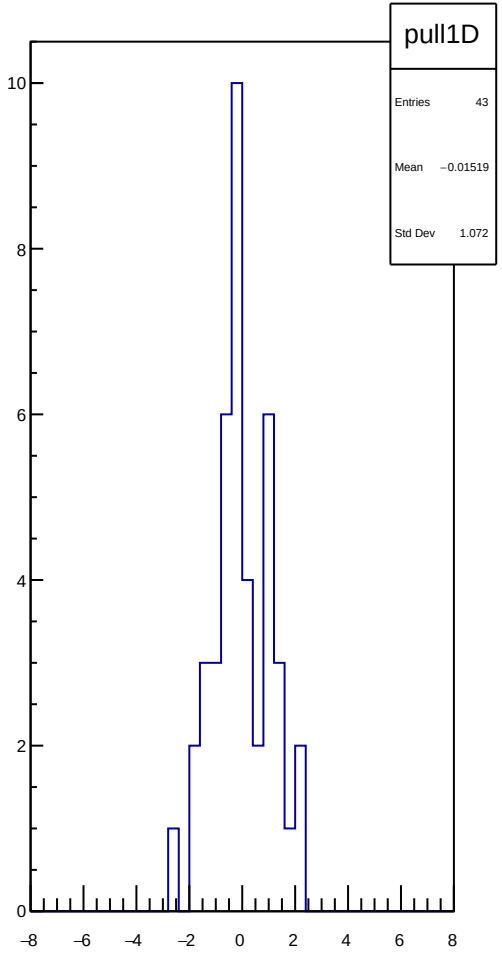

asym_sam1_reg_correction_rms vs run
χ² / ndf 995.2 / 42
p0 586.8 ± 0.6386
640
620
600
580
560
540
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

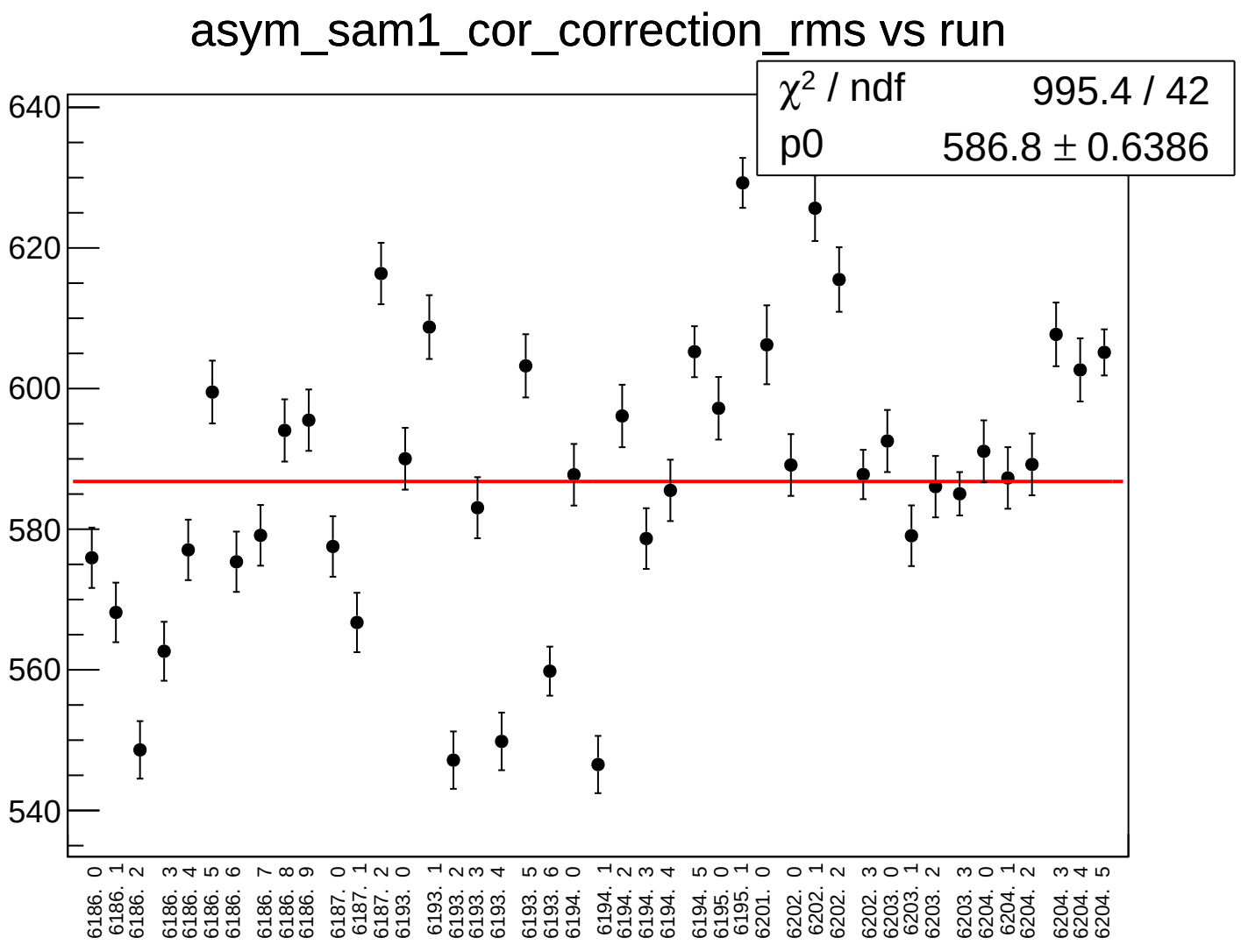

cor_asym_sam1_mean vs run
χ² / ndf 45.34 / 42
p0 83.76 ± 111.5
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −288.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.005641
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam1_rms vs run
χ² / ndf 1413 / 42
p0 72.4 ± 0.07881
84
82
80
78
76
74
72
70
68
66
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam1_cor_correction_mean vs run
χ² / ndf 49.41 / 42
p0 −1036 ± 903.1
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −0.9618
Std Dev 22.44
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.01519
Std Dev 1.072
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_cor_correction_rms vs run
χ² / ndf 995.4 / 42
p0 586.8 ± 0.6386
640
620
600
580
560
540
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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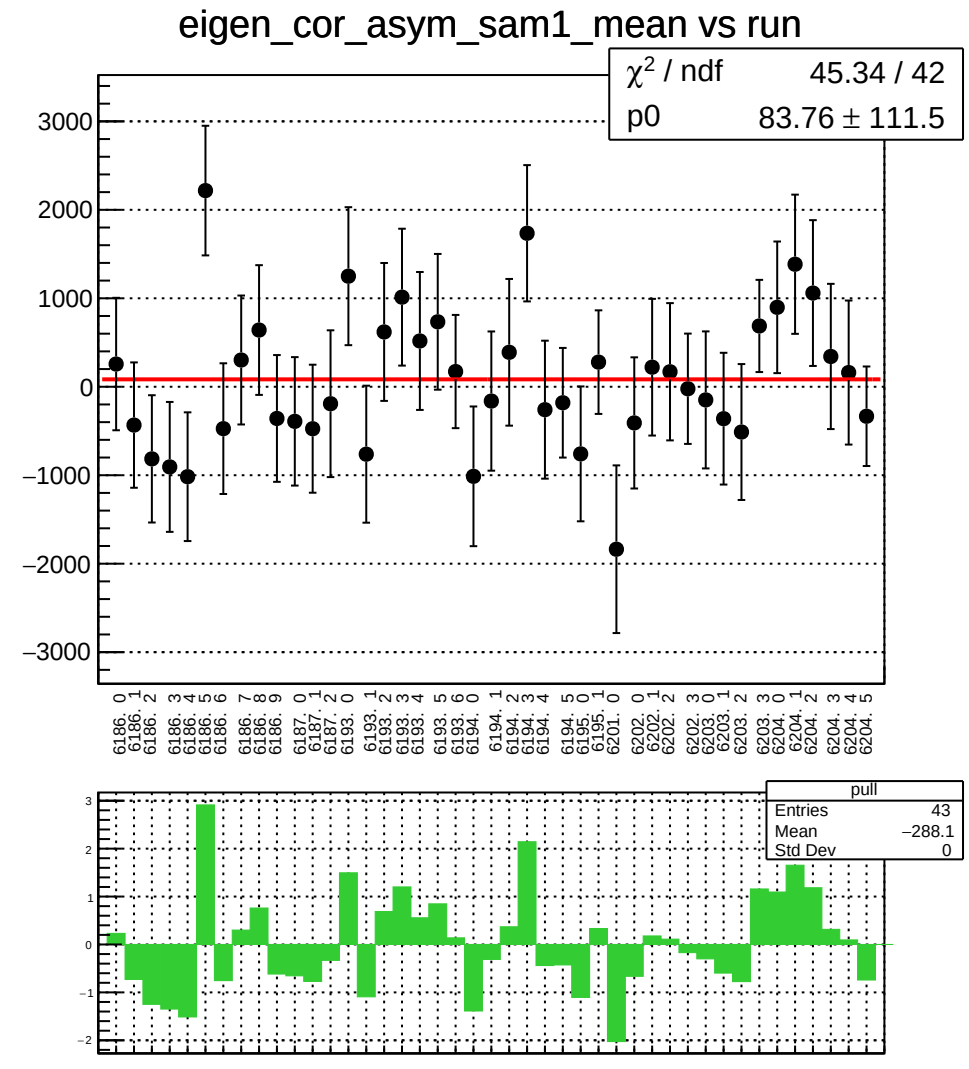
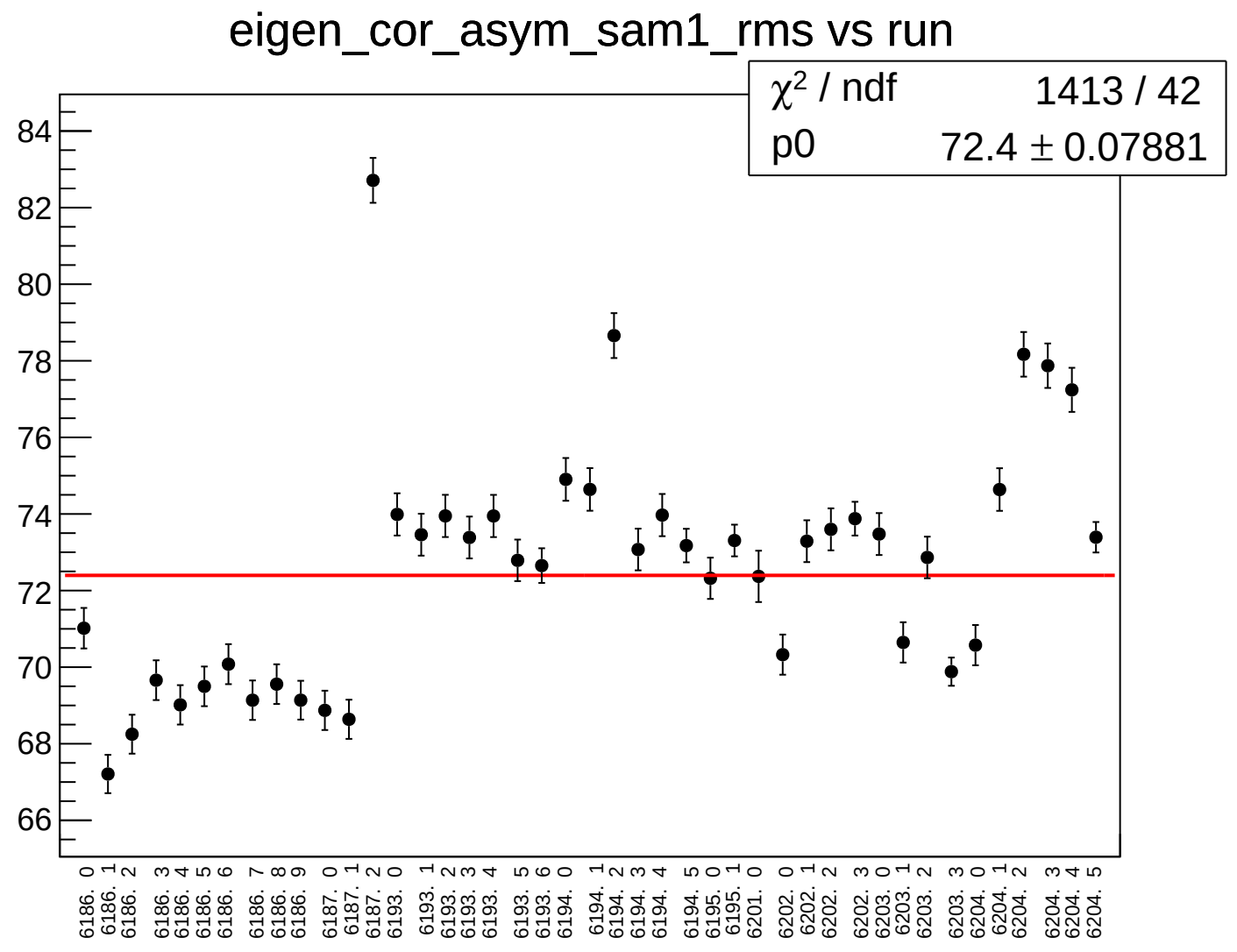
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_sam1_mean vs run
χ² / ndf 45.34 / 42
p0 83.76 ± 111.5
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −288.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.005641
Std Dev 1.027
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam1_rms vs run
χ² / ndf 1413 / 42
p0 72.4 ± 0.07881
84
82
80
78
76
74
72
70
68
66
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
6193. 0
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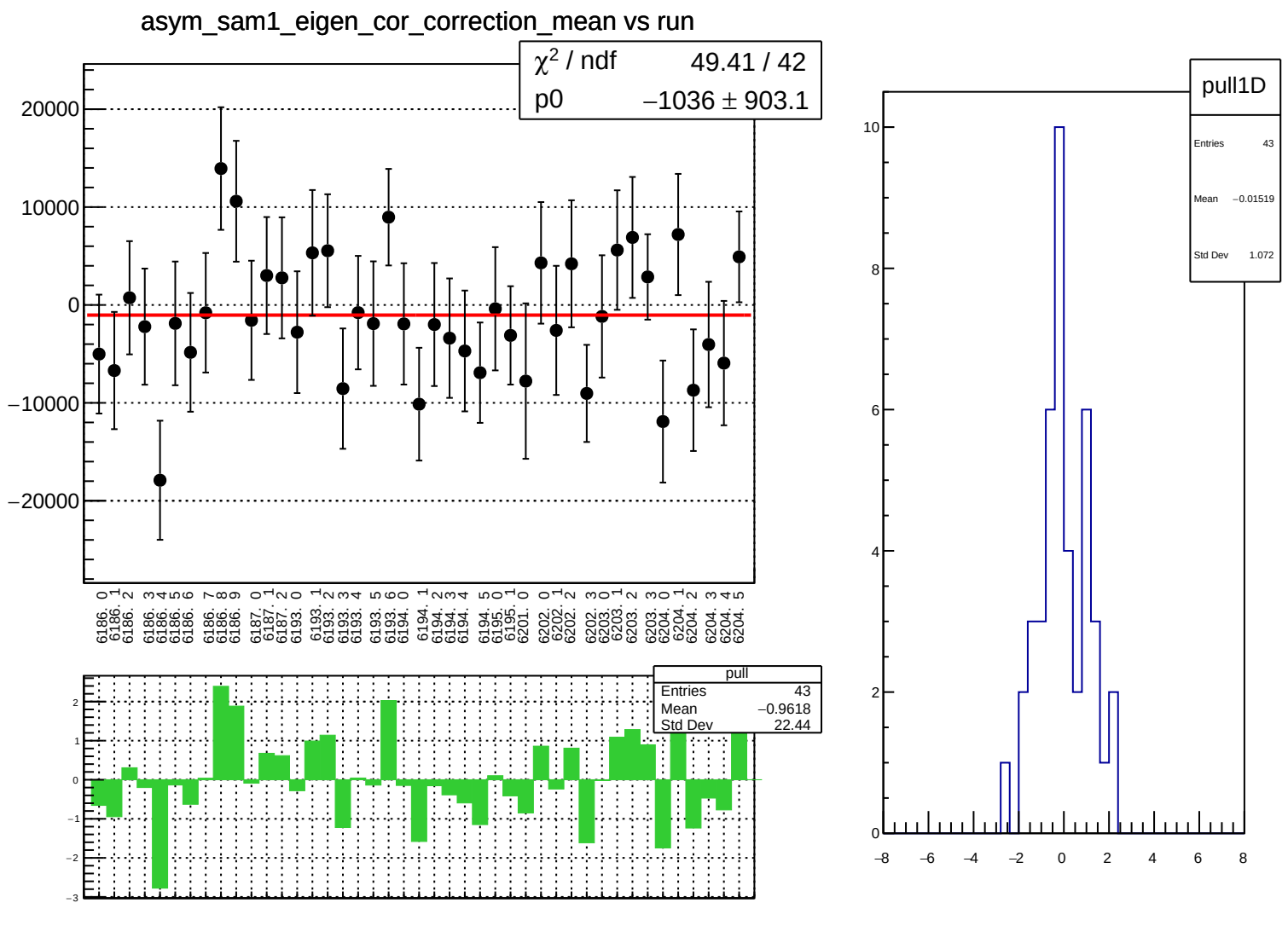
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 49.41 / 42
p0 −1036 ± 903.1
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 1
6203. 2
6203. 3
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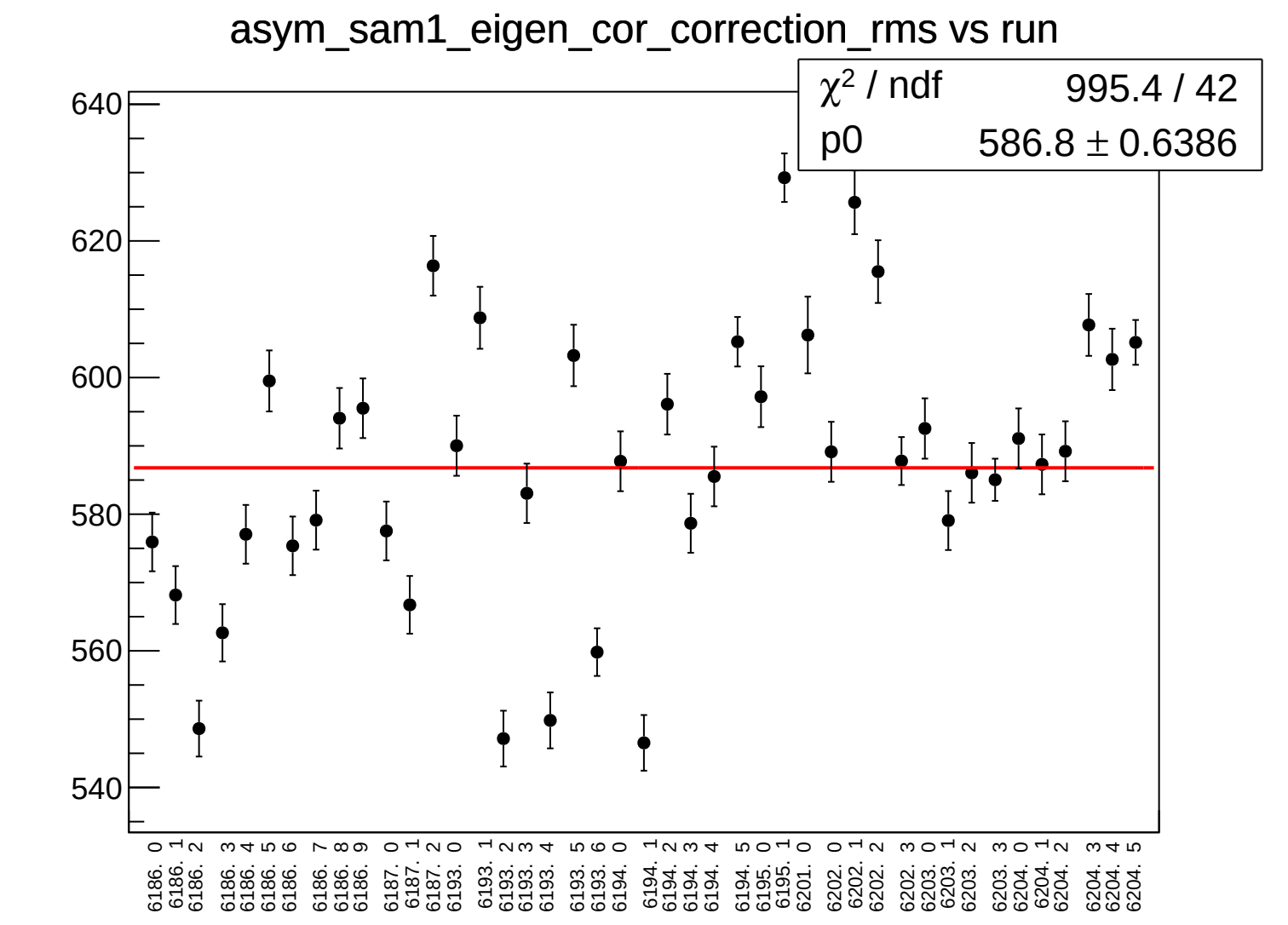
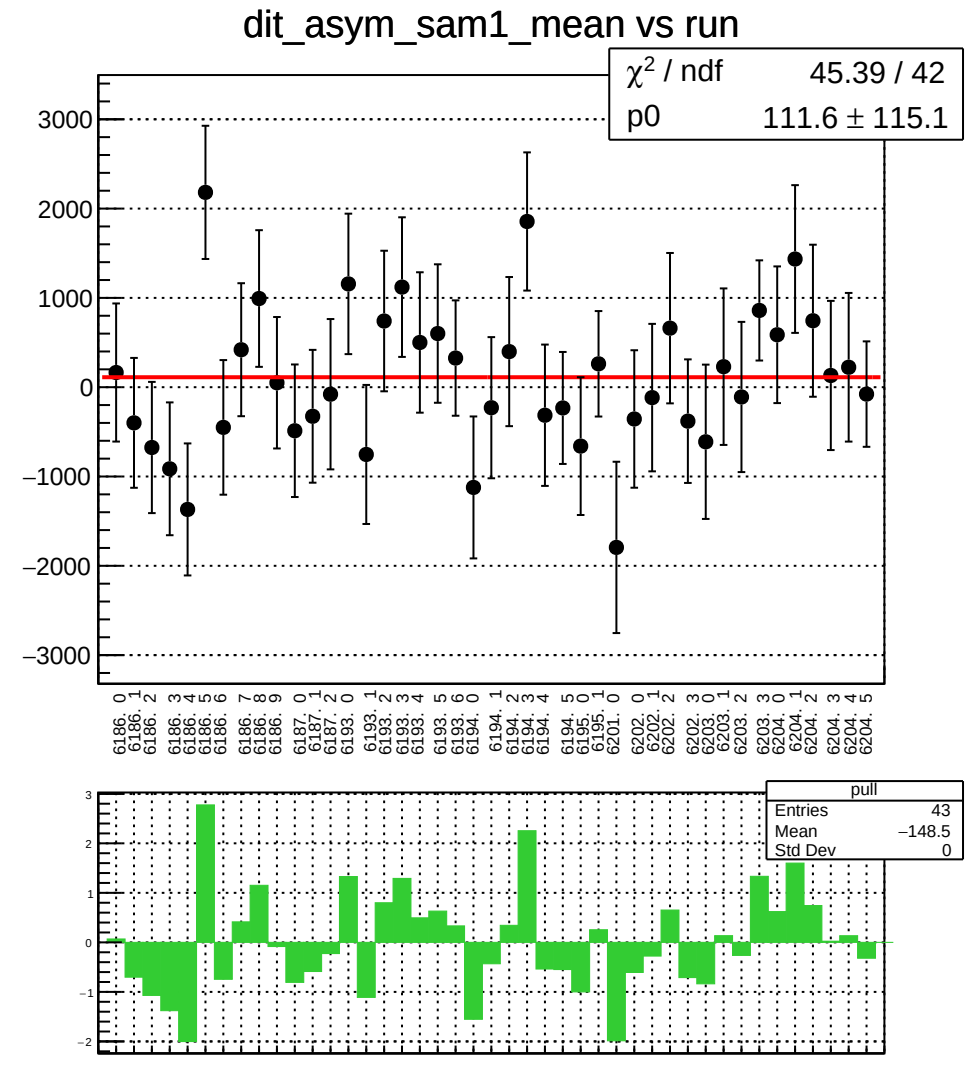
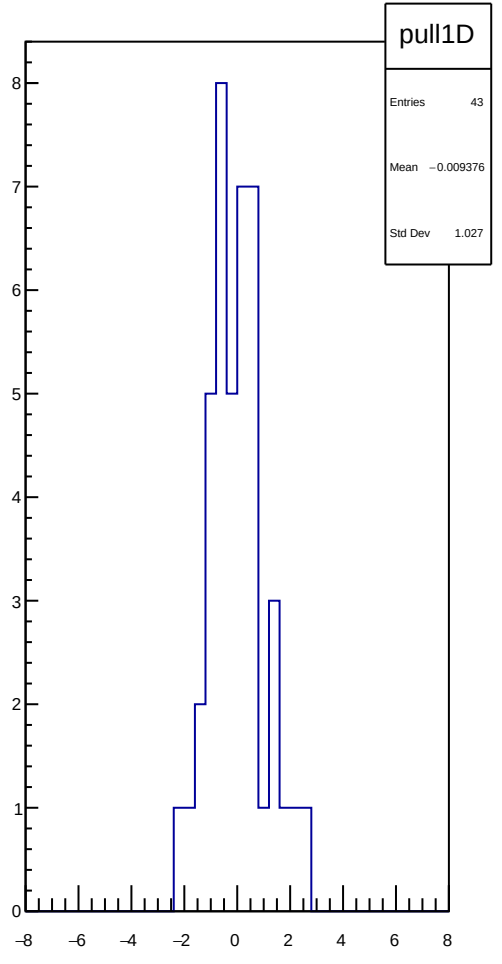
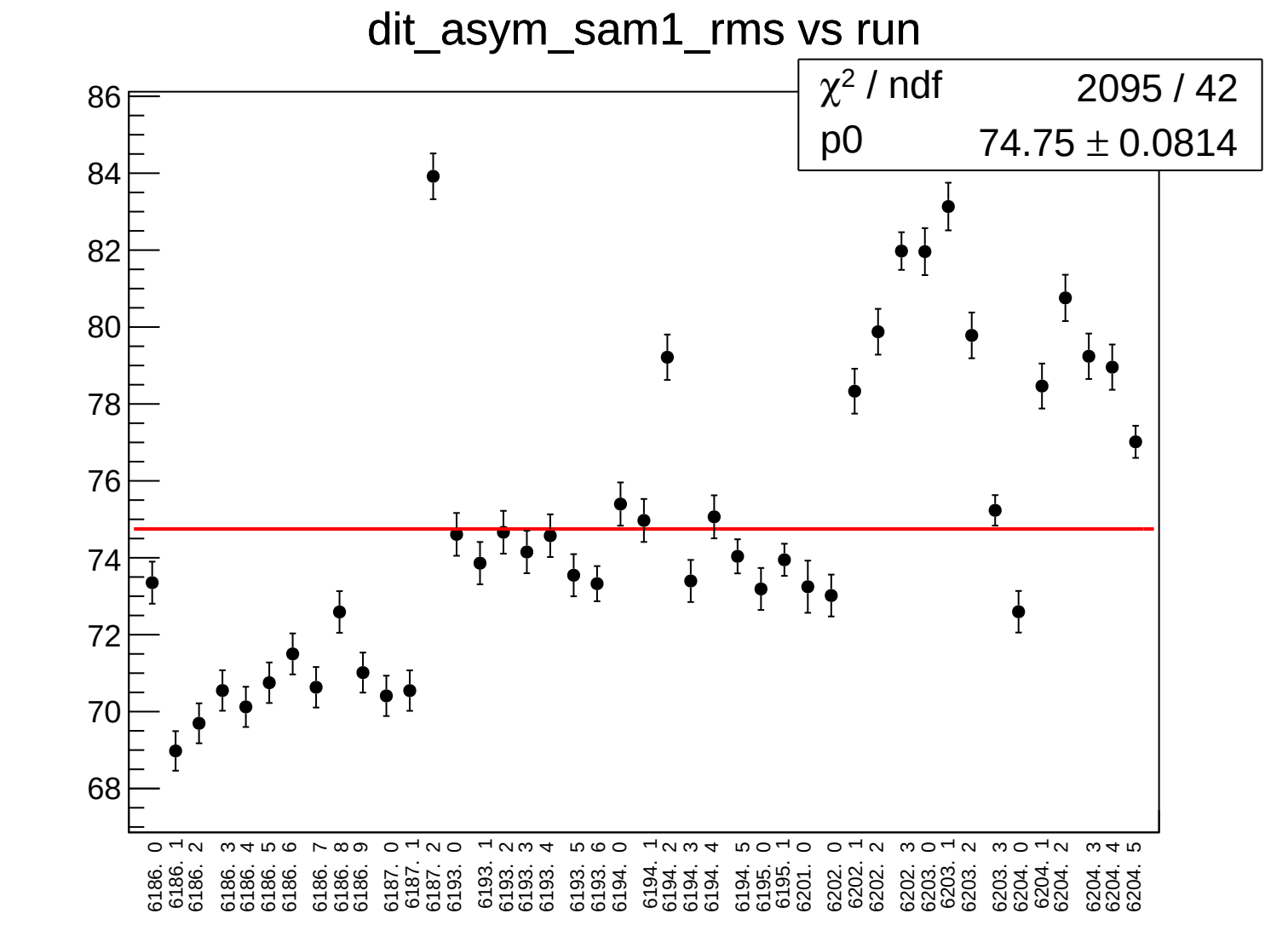
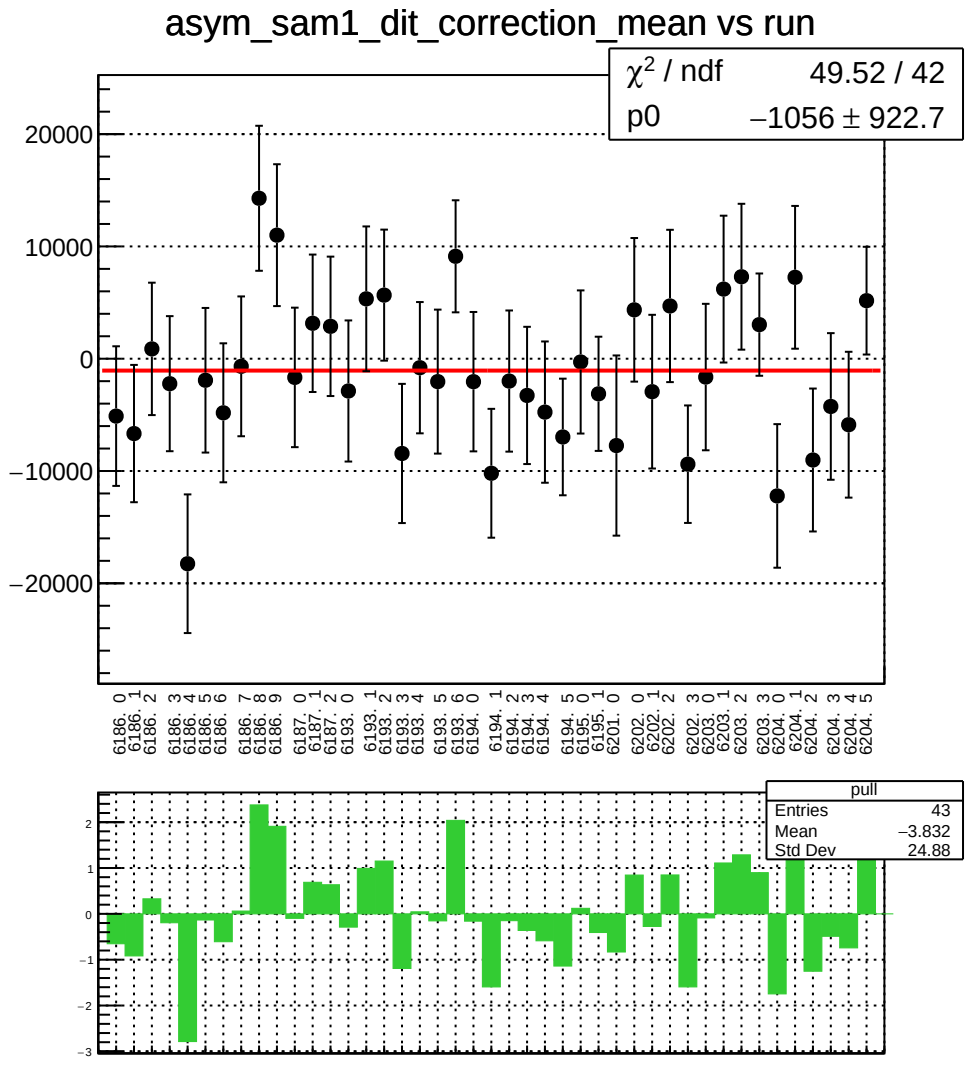
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −0.9618
Std Dev 22.44
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01519
Std Dev 1.072
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

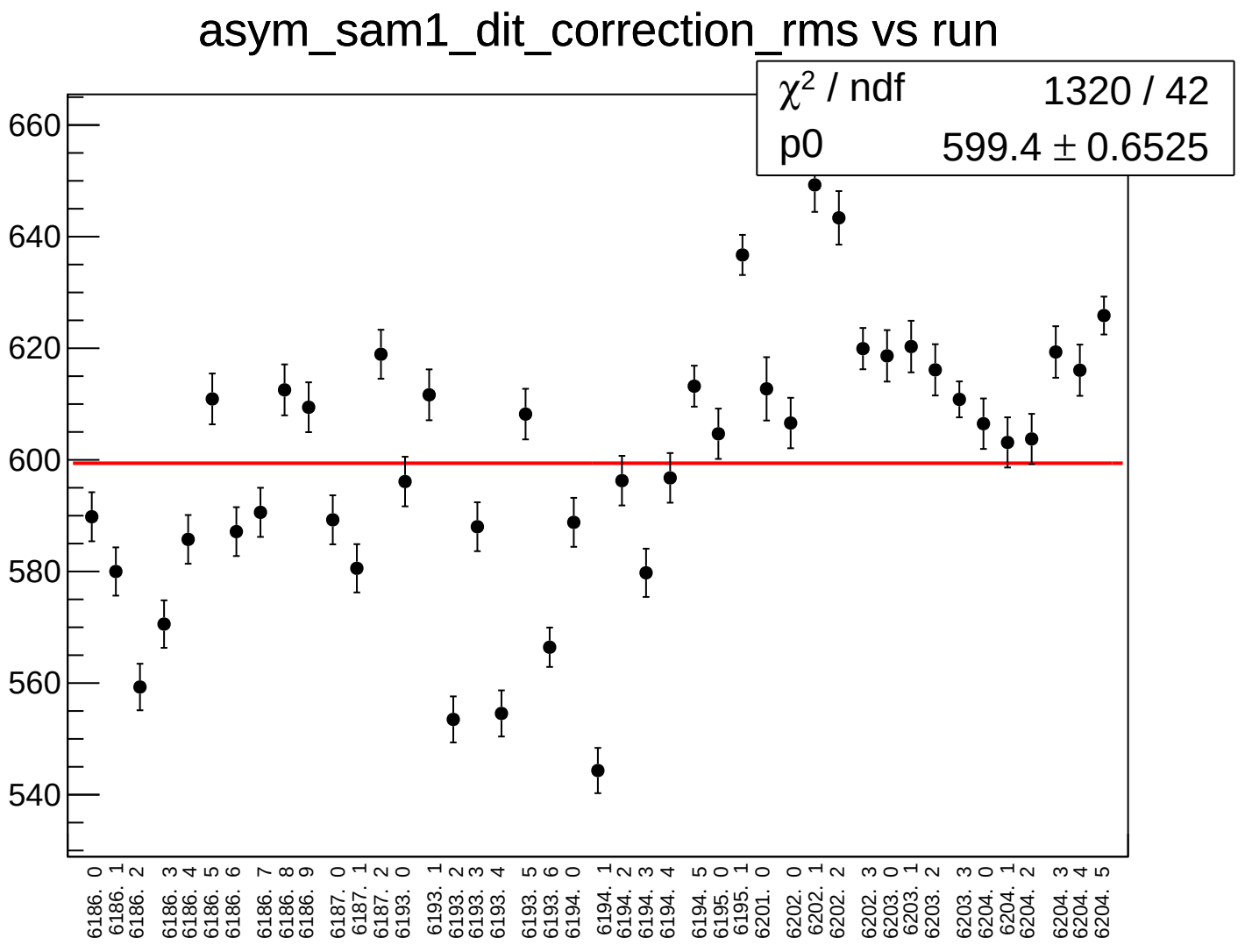

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 995.4 / 42
p0 586.8 ± 0.6386
640
620
600
580
560
540
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

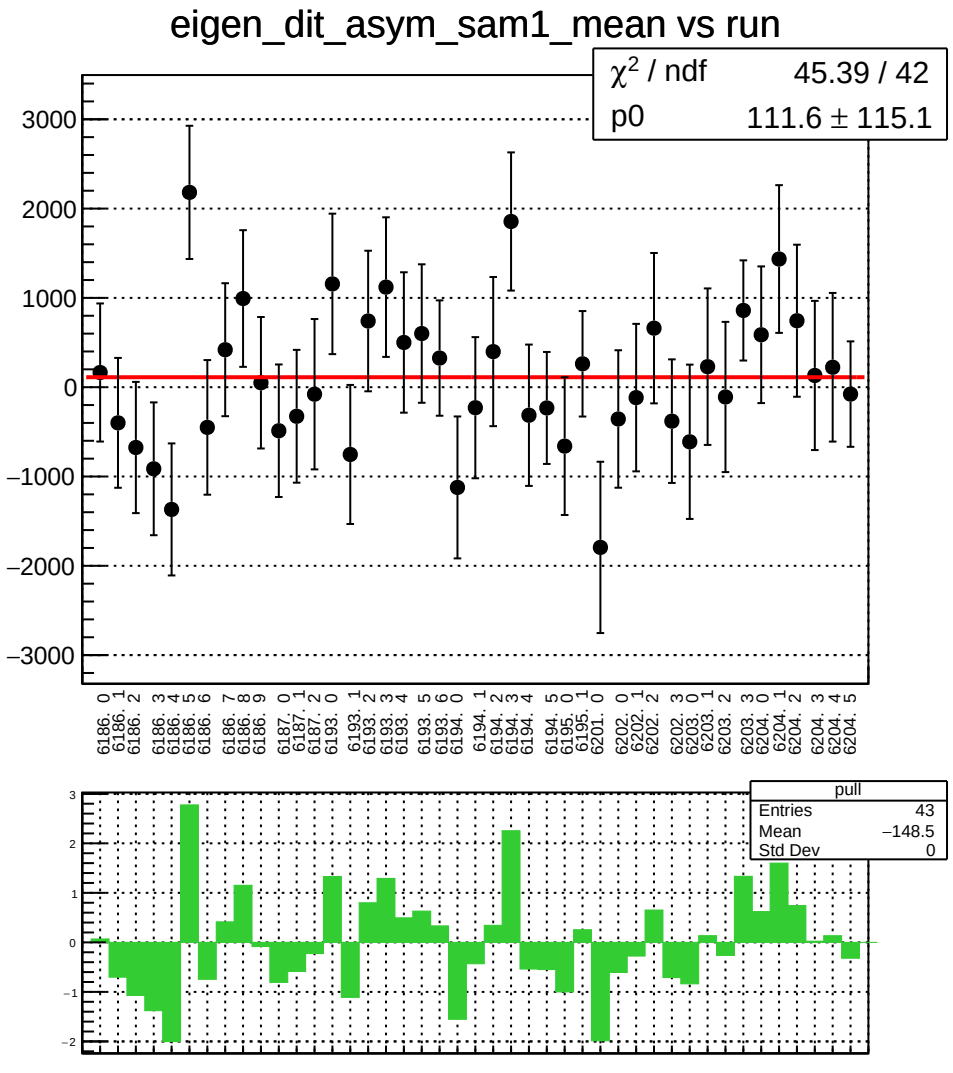

dit_asym_sam1_mean vs run
χ² / ndf 45.39 / 42
p0 111.6 ± 115.1
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −148.5
Std Dev 0
3
2
1
0
−1
−2

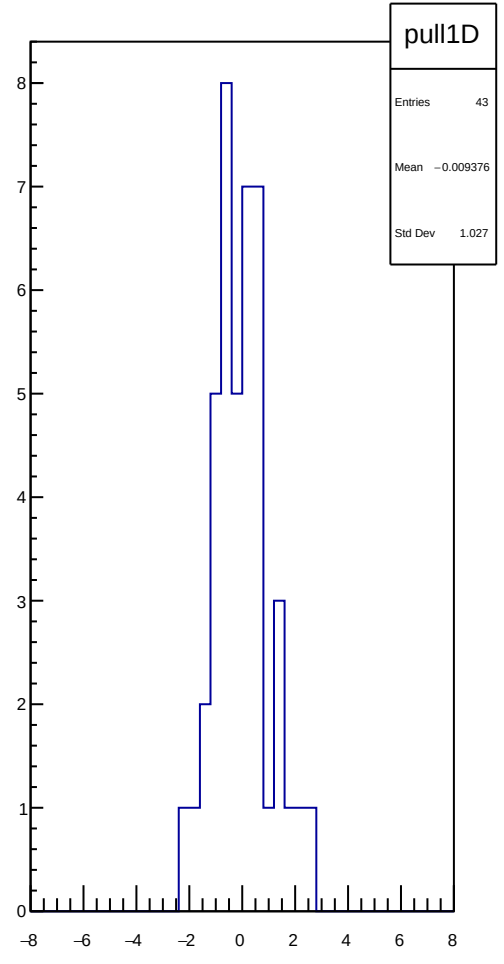

pull1D
Entries 43
Mean −0.009376
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

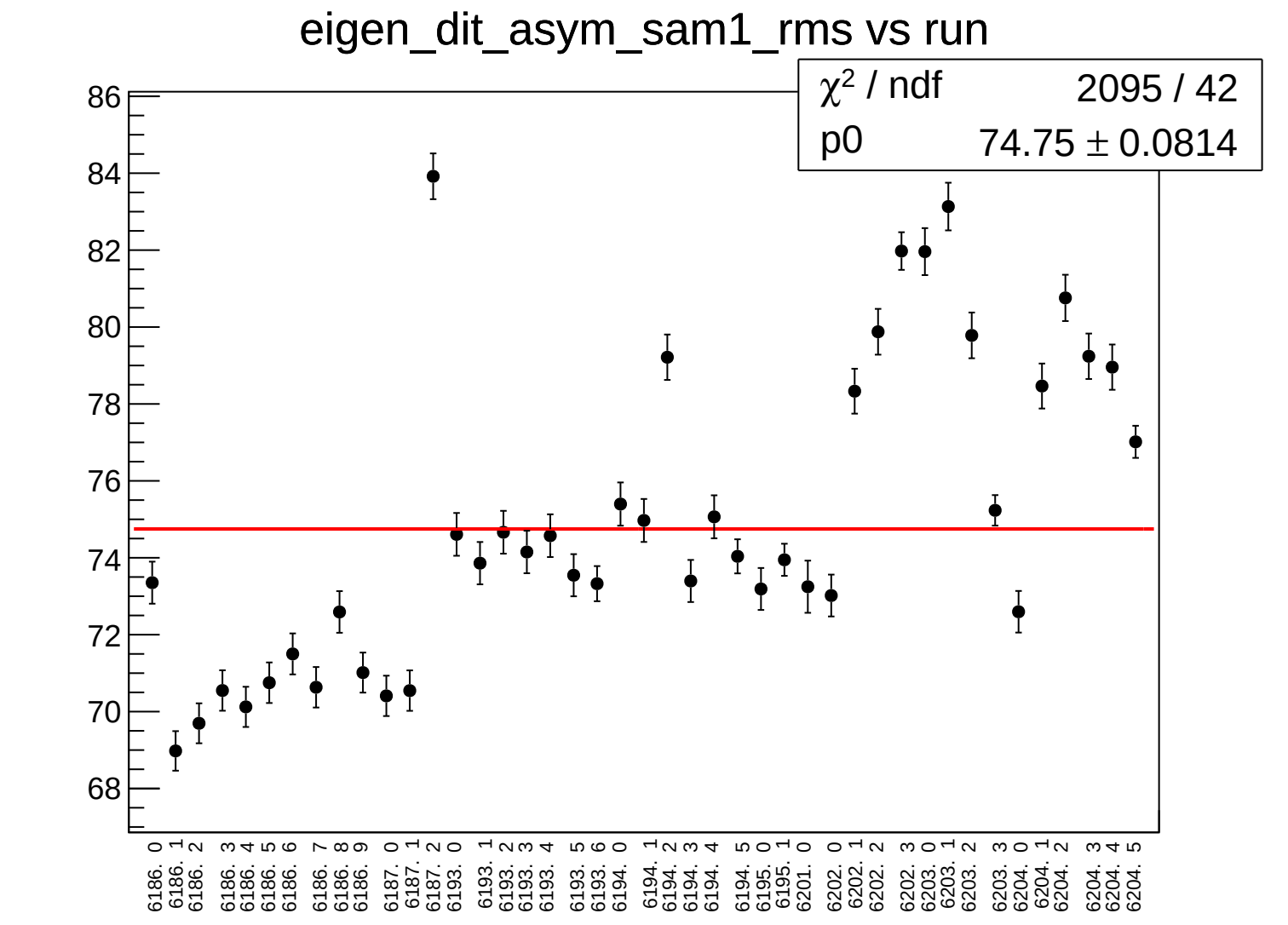

dit_asym_sam1_rms vs run
χ² / ndf 2095 / 42
p0 74.75 ± 0.0814
86
84
82
80
78
76
74
72
70
68
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam1_dit_correction_mean vs run
χ² / ndf 49.52 / 42
p0 −1056 ± 922.7
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3.832
Std Dev 24.88
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01162
Std Dev 1.073
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_dit_correction_rms vs run
χ² / ndf 1320 / 42
p0 599.4 ± 0.6525
660
640
620
600
580
560
540
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_sam1_mean vs run
χ² / ndf 45.39 / 42
p0 111.6 ± 115.1
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −148.5
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.009376
Std Dev 1.027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam1_rms vs run
χ² / ndf 2095 / 42
p0 74.75 ± 0.0814
86
84
82
80
78
76
74
72
70
68
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 3
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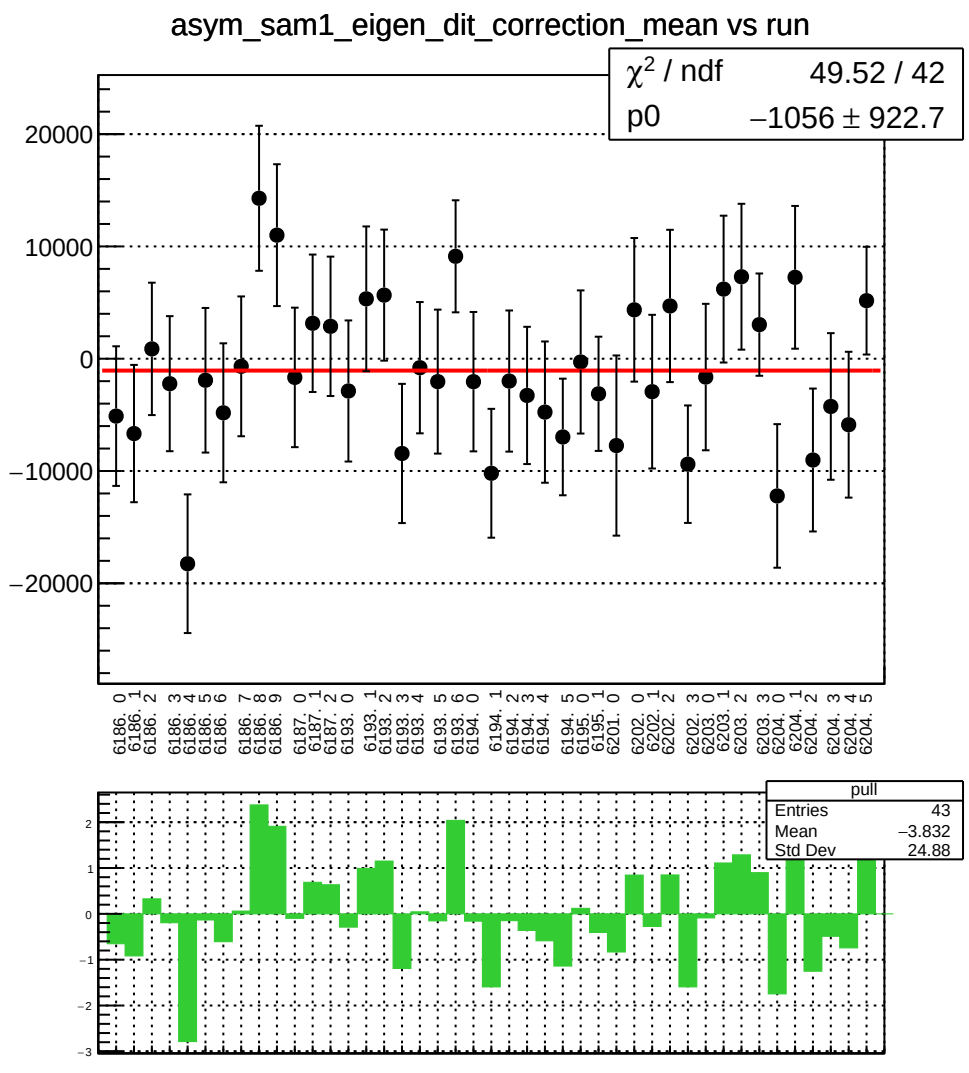
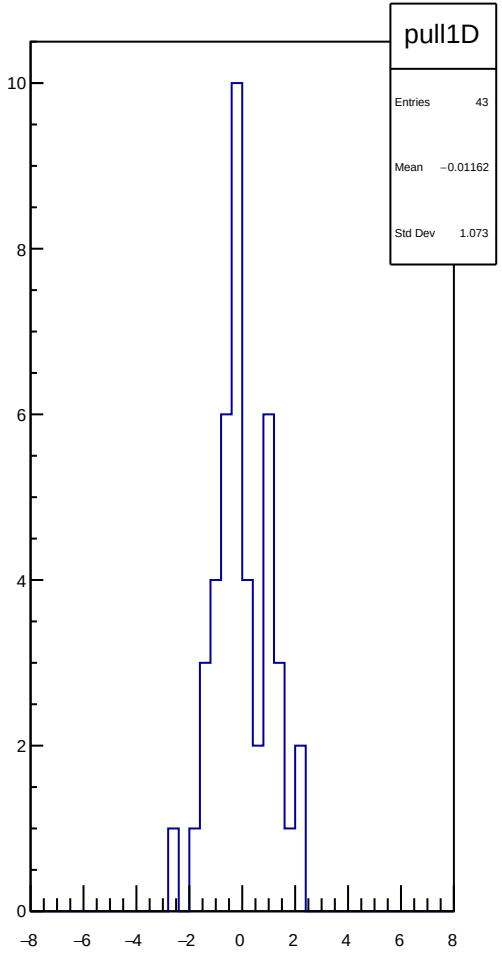
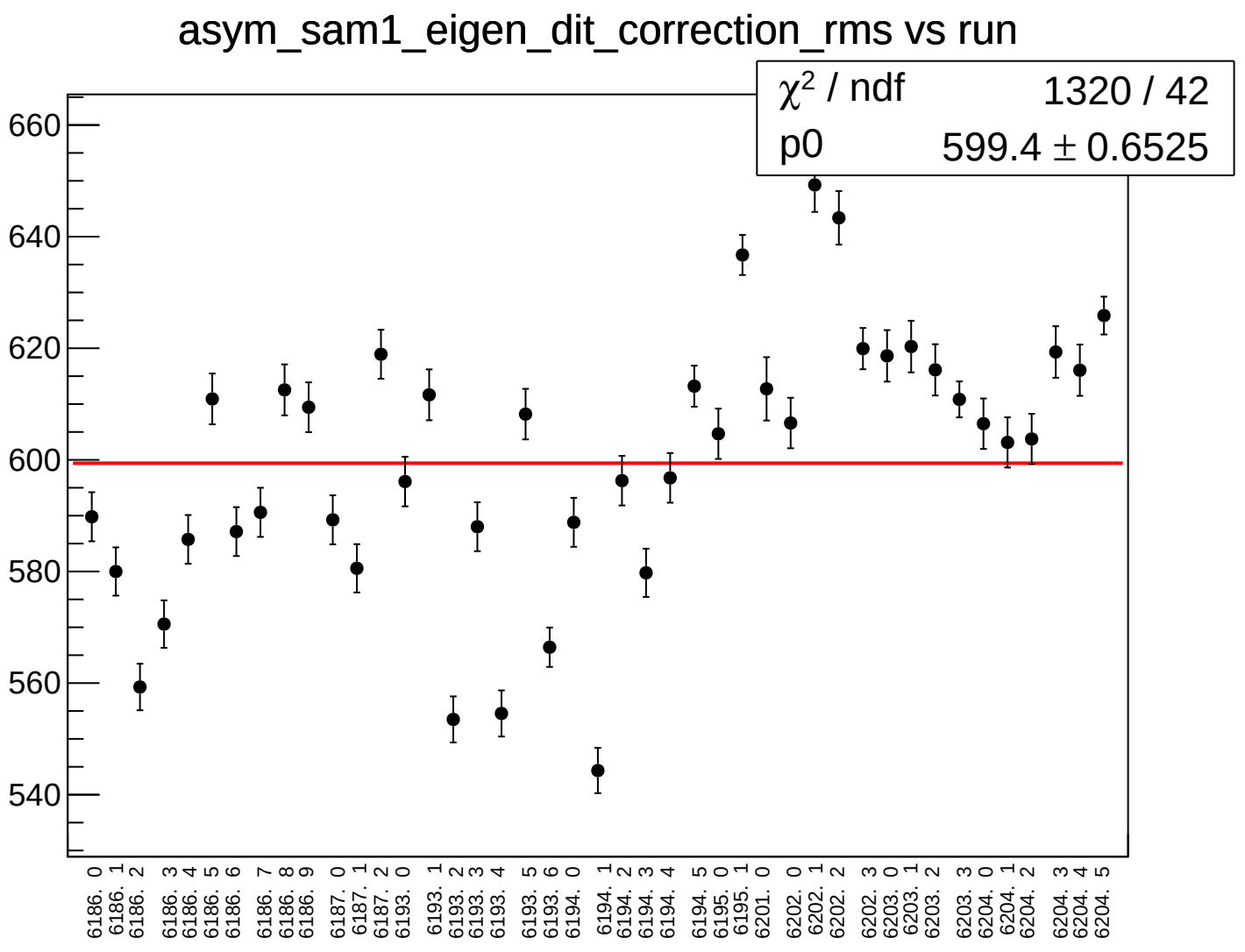
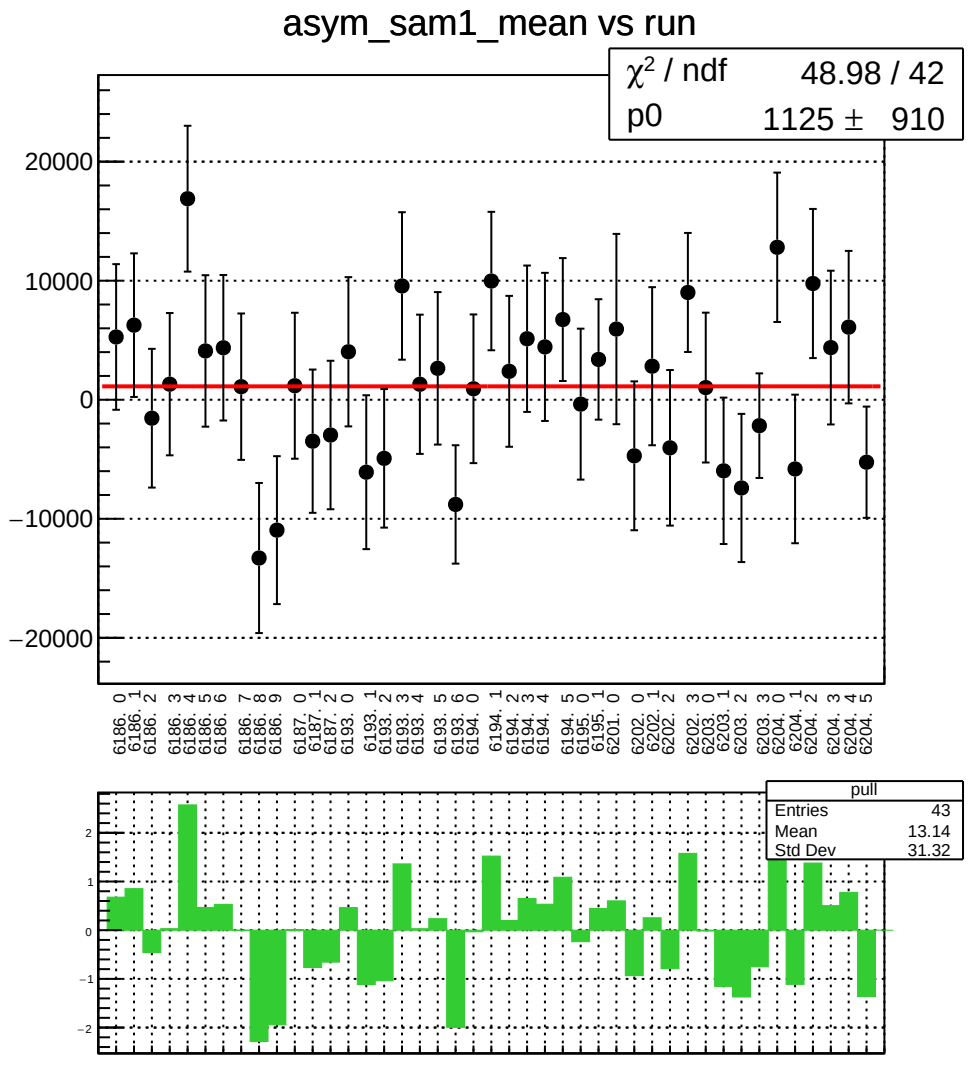
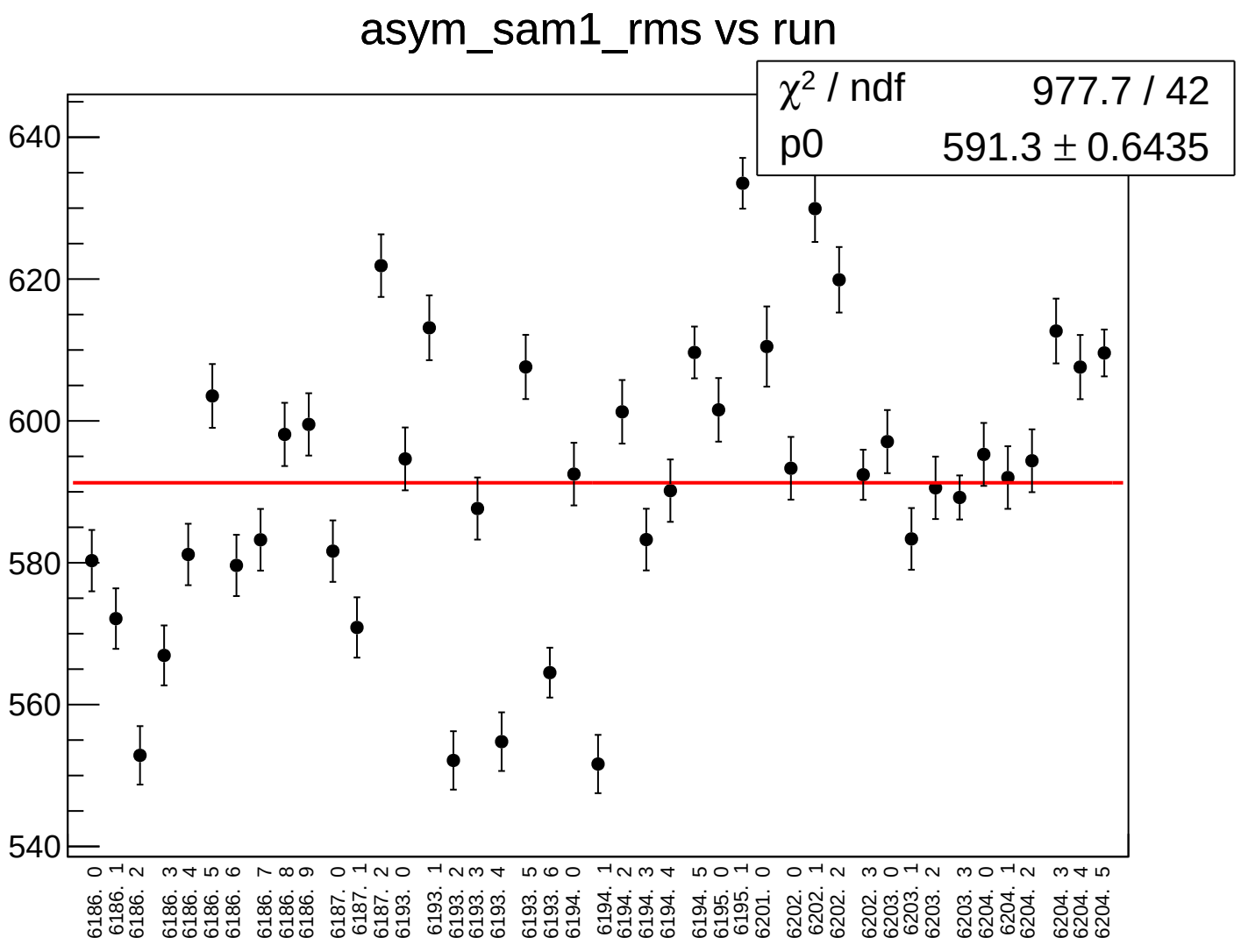
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

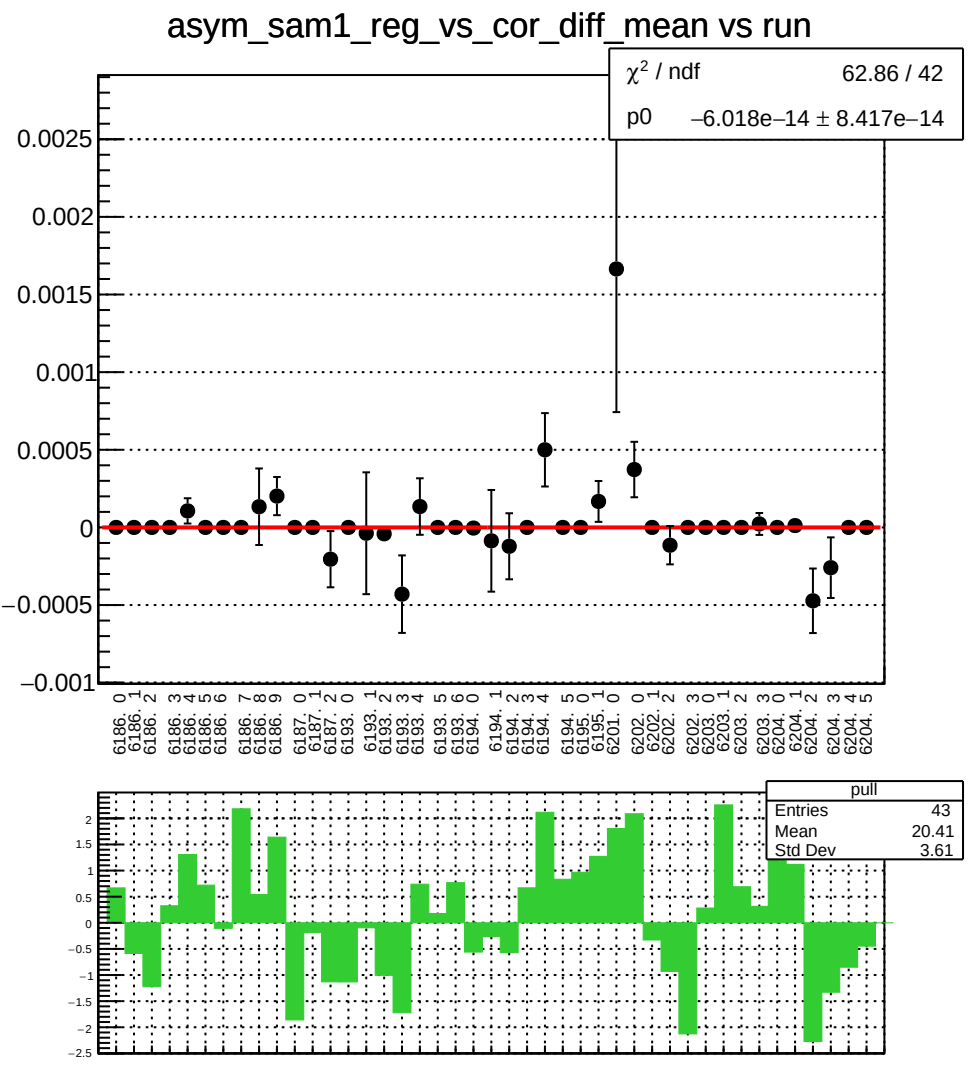

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 49.52 / 42
p0 −1056 ± 922.7
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3.832
Std Dev 24.88
2
1
0
−1
−2
−3

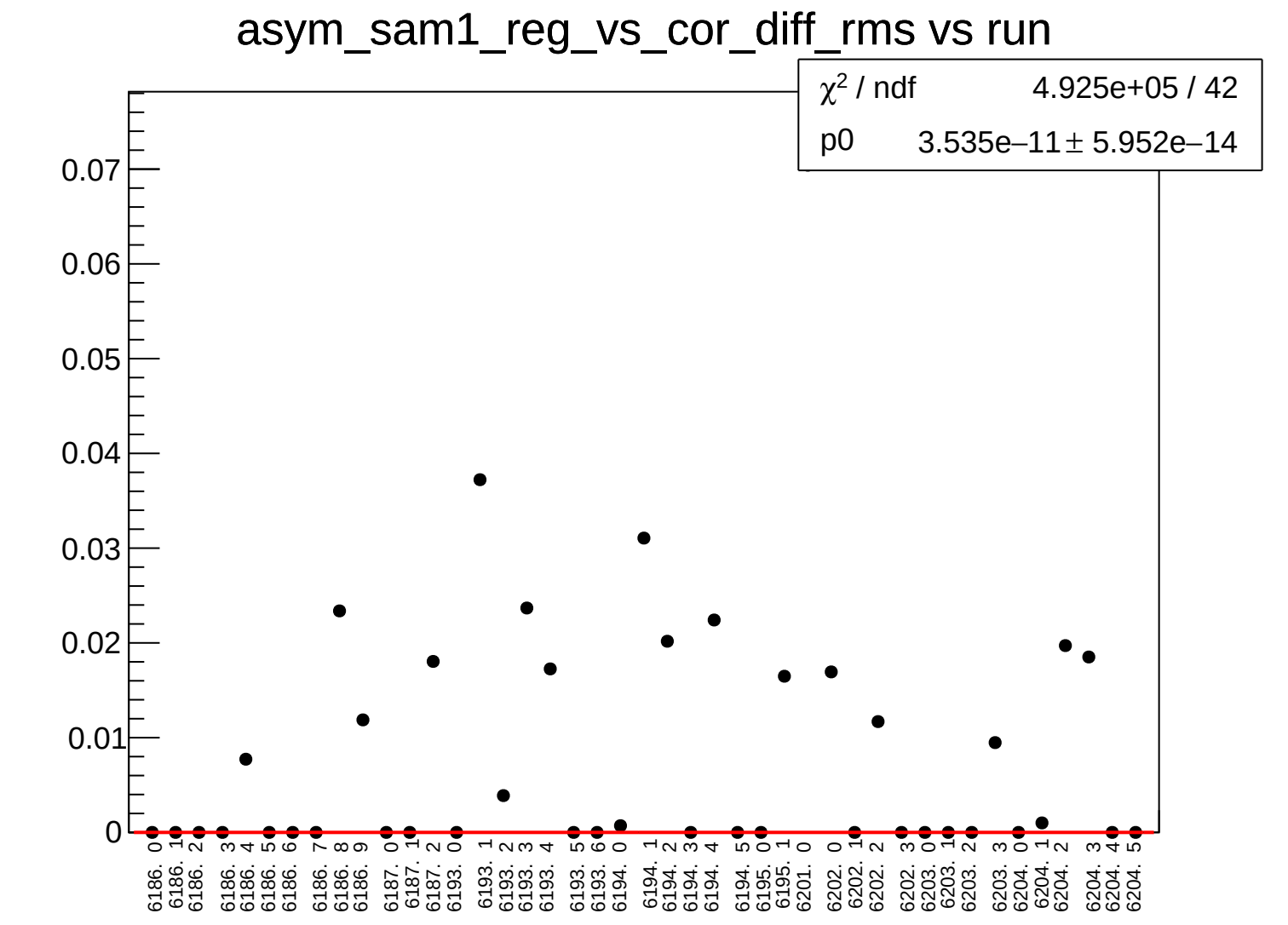

pull1D
Entries 43
Mean −0.01162
Std Dev 1.073
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

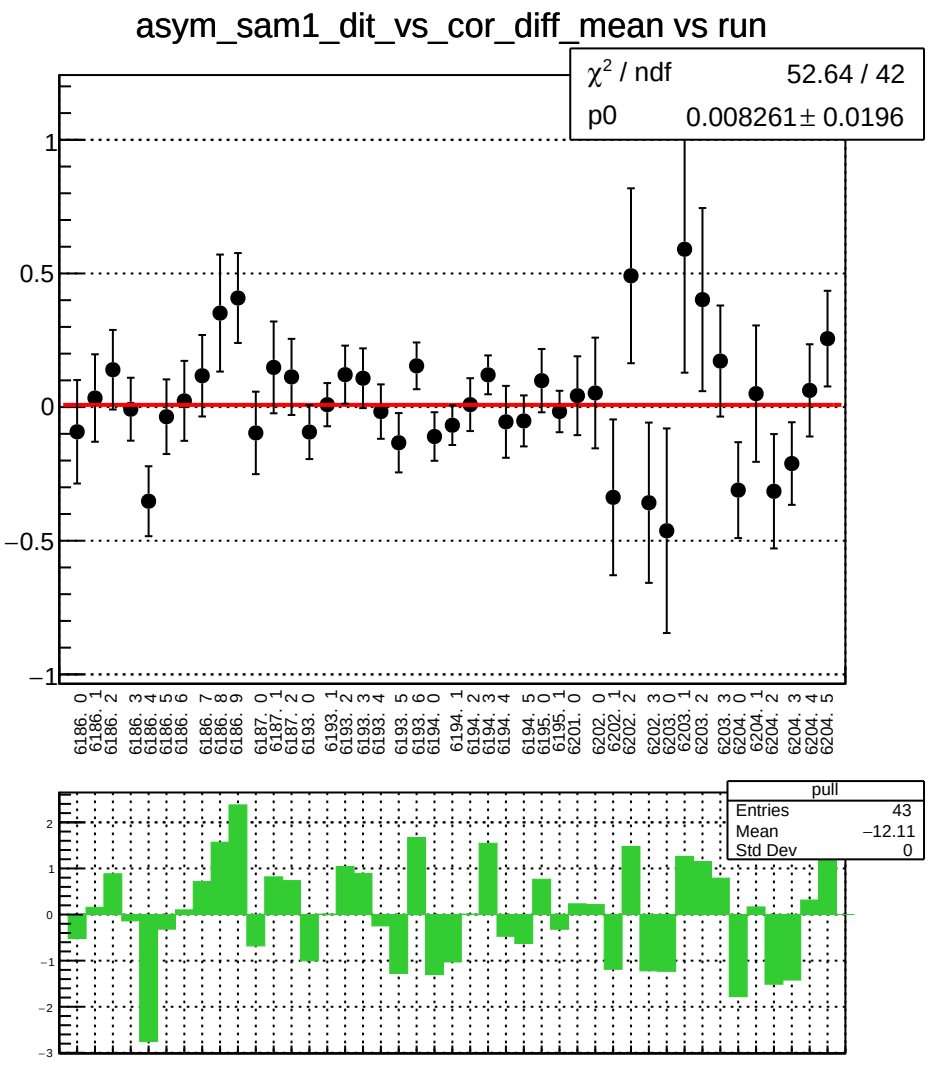

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 1320 / 42
p0 599.4 ± 0.6525
660
640
620
600
580
560
540
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

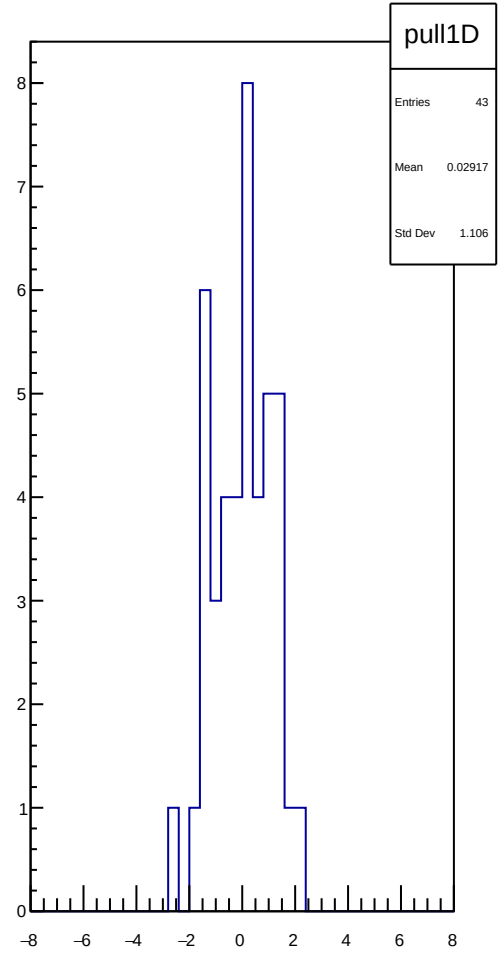

asym_sam1_mean vs run
χ² / ndf 48.98 / 42
p0 1125 ± 910
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 13.14
Std Dev 31.32
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01401
Std Dev 1.067
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

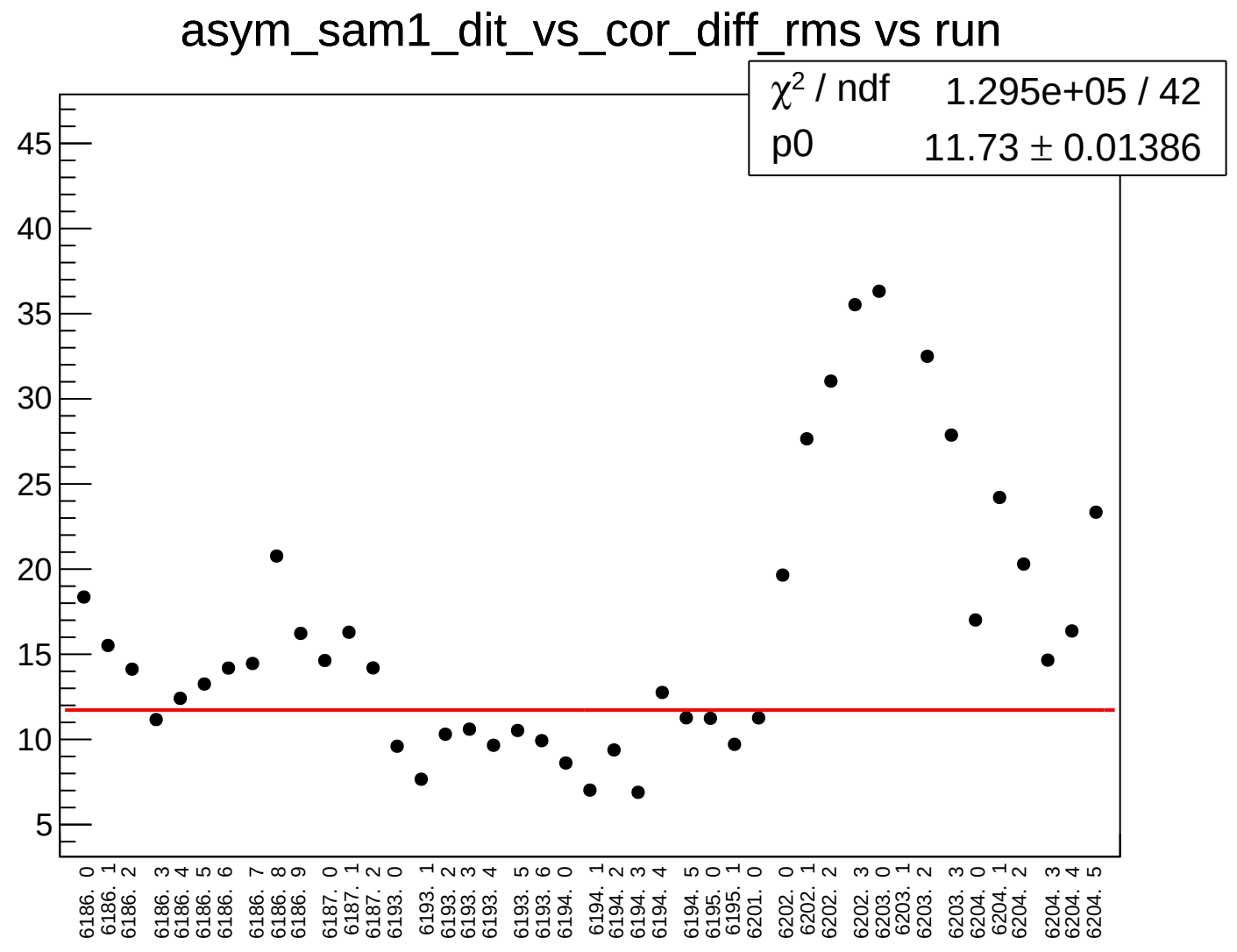

asym_sam1_rms vs run
χ² / ndf 977.7 / 42
p0 591.3 ± 0.6435
640
620
600
580
560
540
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

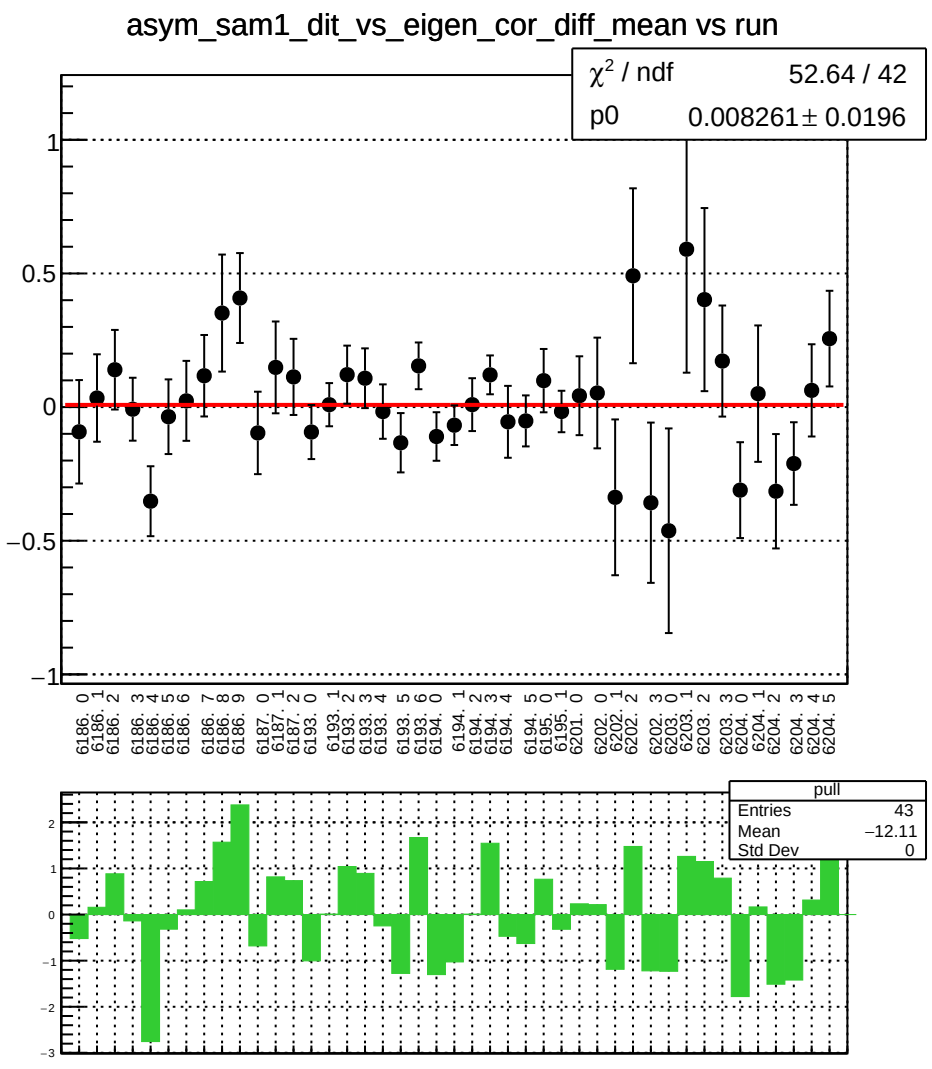

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 62.86 / 42
p0 −6.018e−14 ± 8.417e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 20.41
Std Dev 3.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.1469
Std Dev 1.2
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

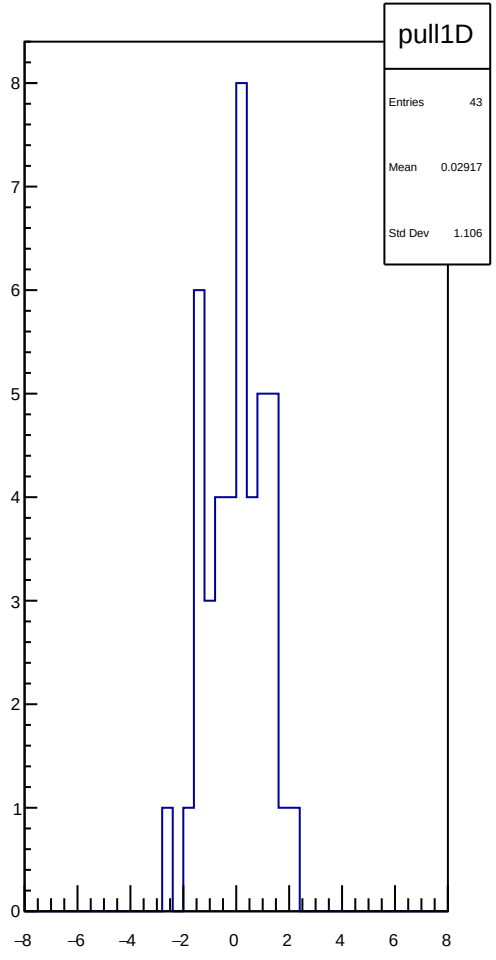

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 4.925e+05 / 42
p0 3.535e−11 ± 5.952e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

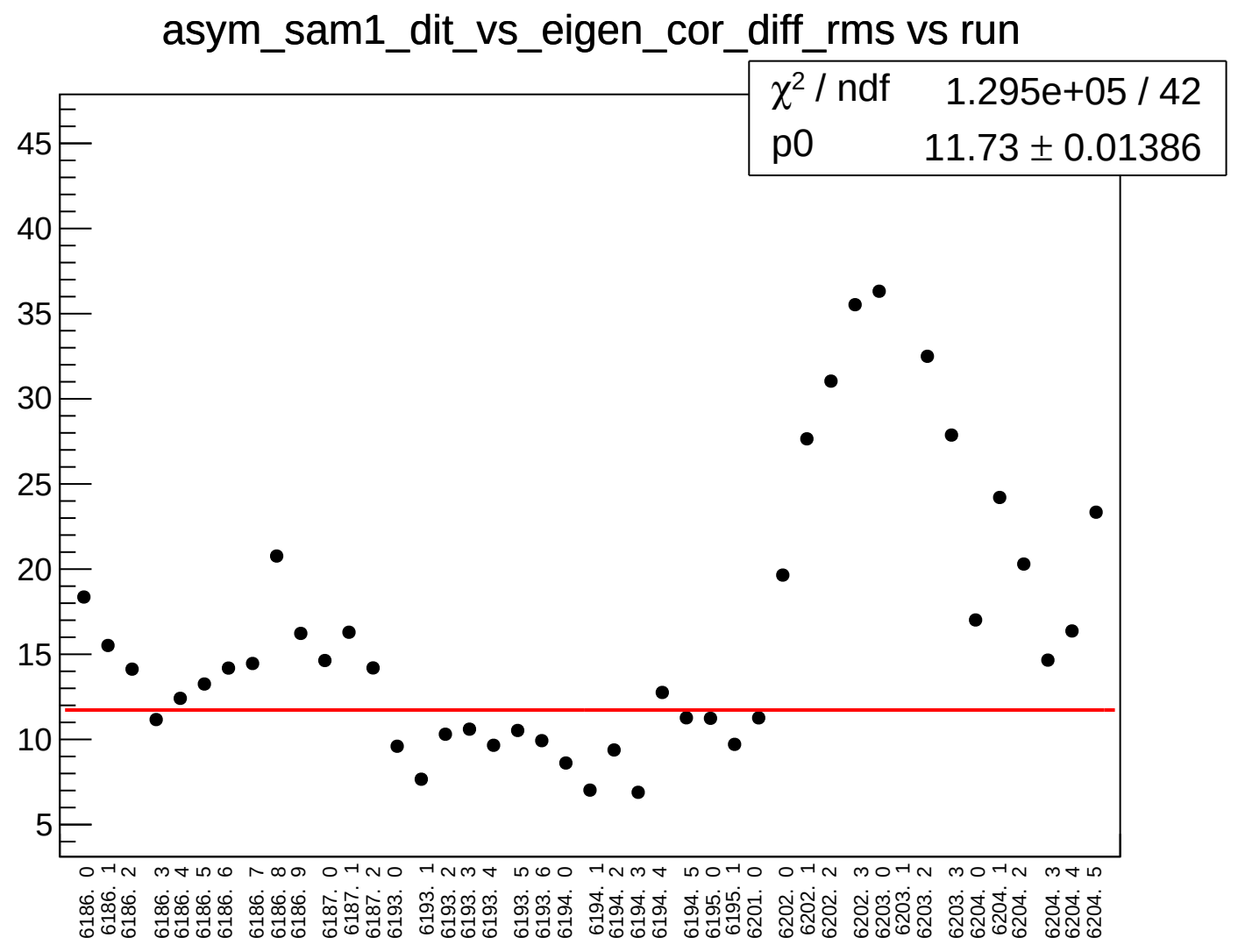

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 52.64 / 42
p0 0.008261 ± 0.0196
1
0.5
0
−0.5
−1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −12.11
Std Dev 0
2
1
0
−1
−2
−3

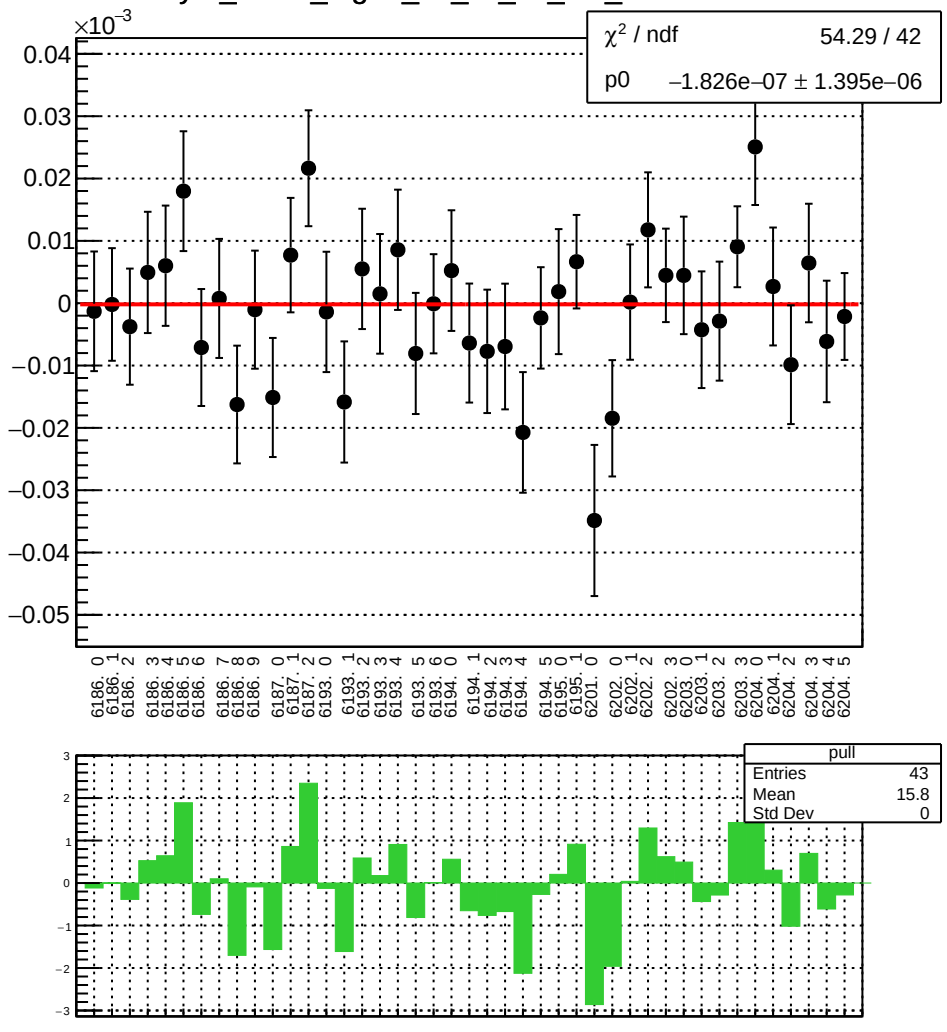

pull1D
Entries 43
Mean 0.02917
Std Dev 1.106
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

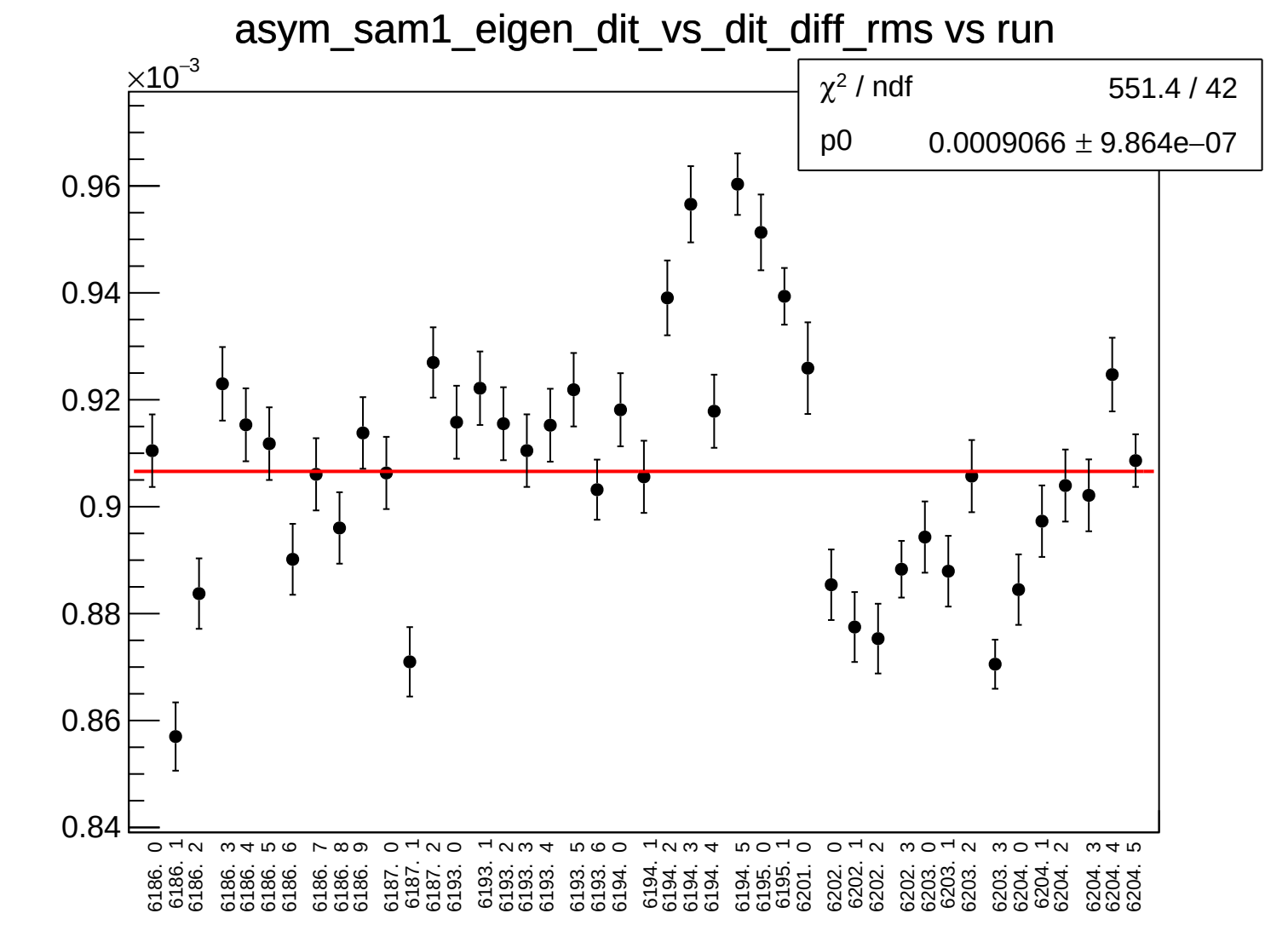

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.295e+05 / 42
p0 11.73 ± 0.01386
45
40
35
30
25
20
15
10
5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

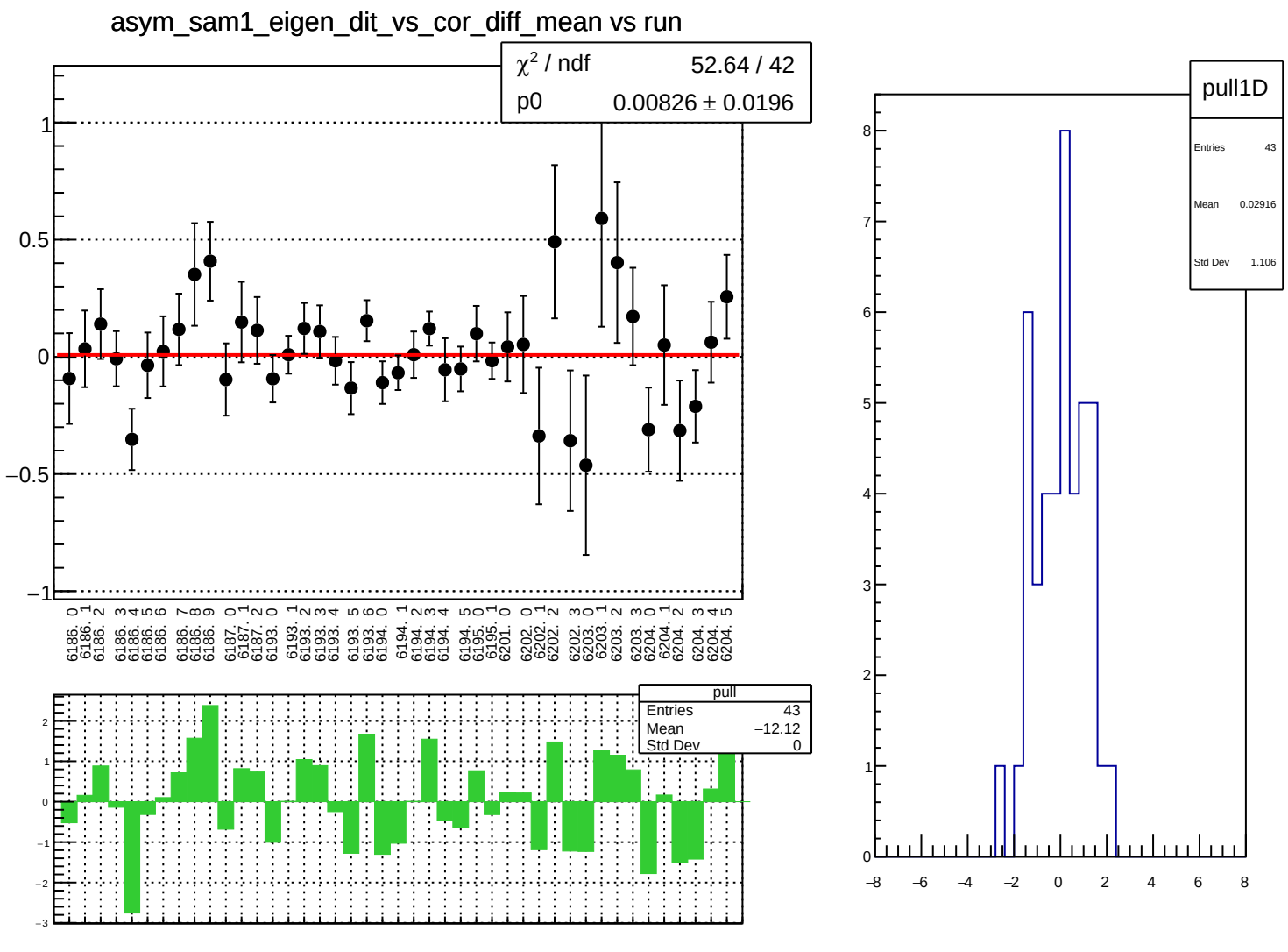

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.64 / 42
p0 0.008261 ± 0.0196
pull
Entries 43
Mean −12.11
Std Dev 0

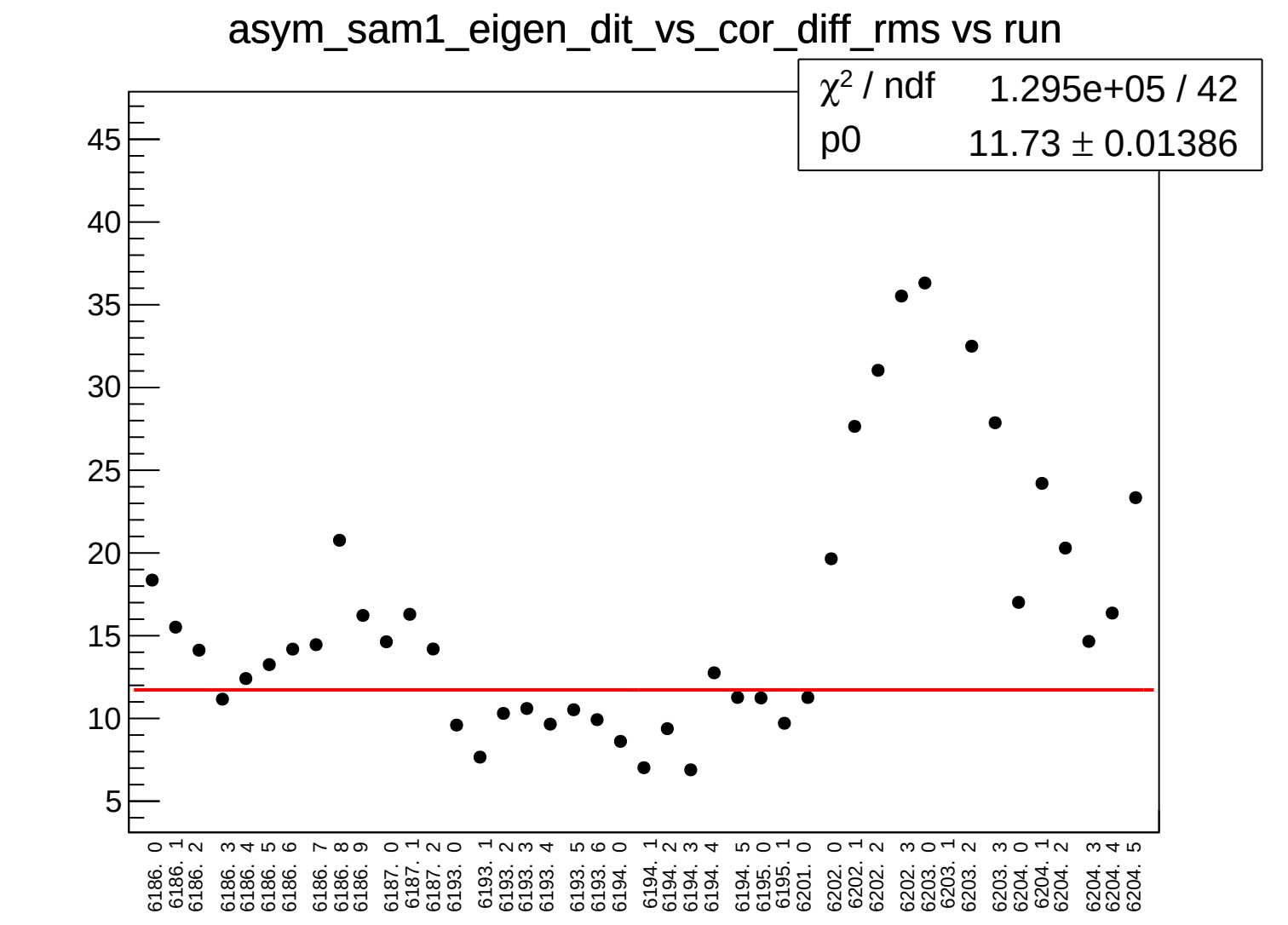

pull1D
Entries 43
Mean 0.02917
Std Dev 1.106

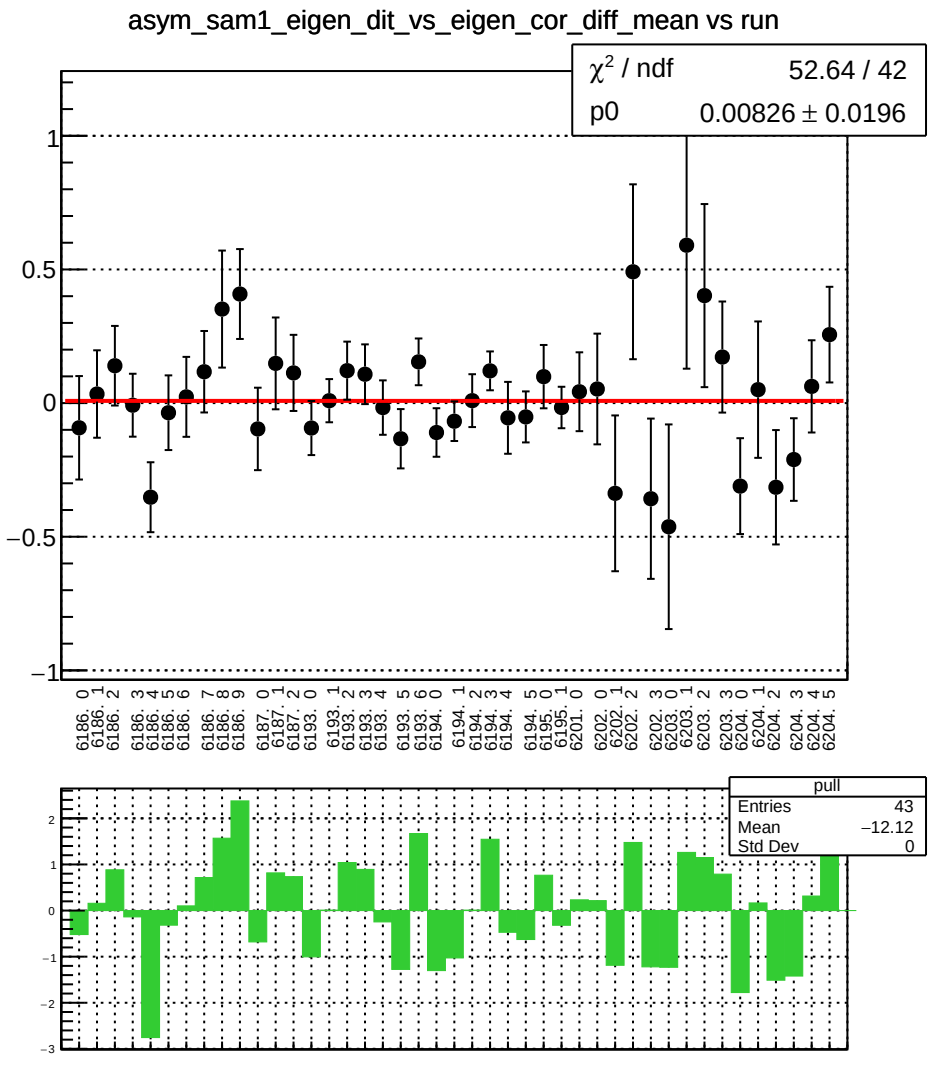

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.295e+05 / 42
p0 11.73 ± 0.01386
45
40
35
30
25
20
15
10
5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

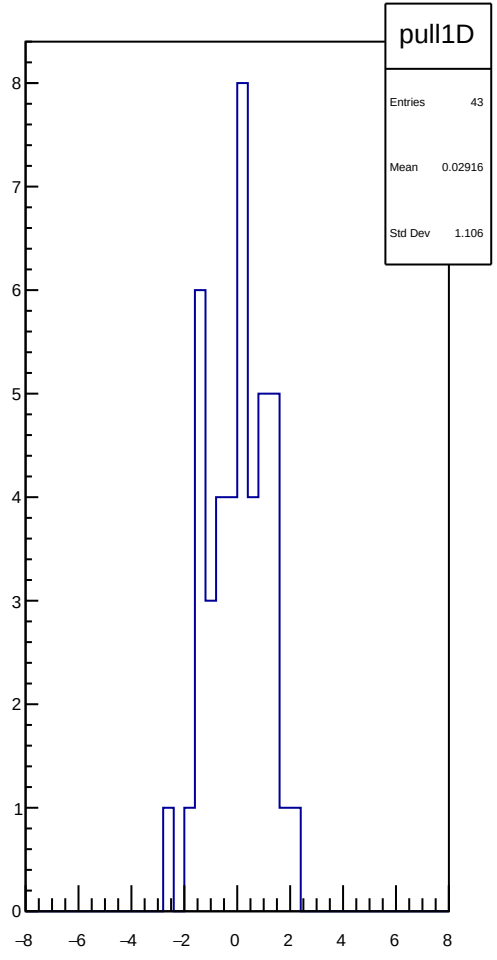

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 54.29 / 42
p0 −1.826e−07 ± 1.395e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 15.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.04088
Std Dev 1.123
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

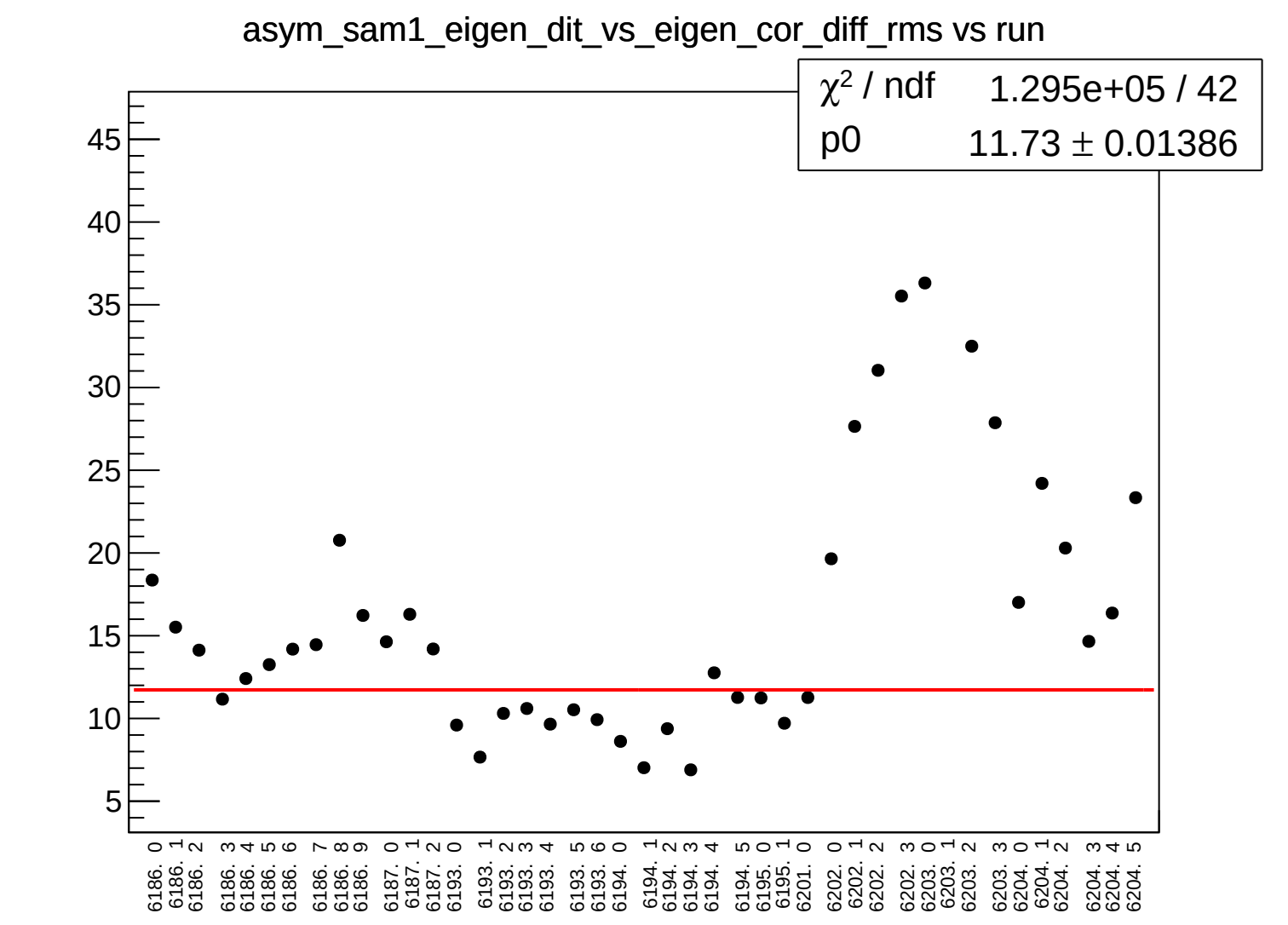

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 551.4 / 42
p0 0.0009066 ± 9.864e−07
0.96
0.94
0.92
0.9
0.88
0.86
0.84
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

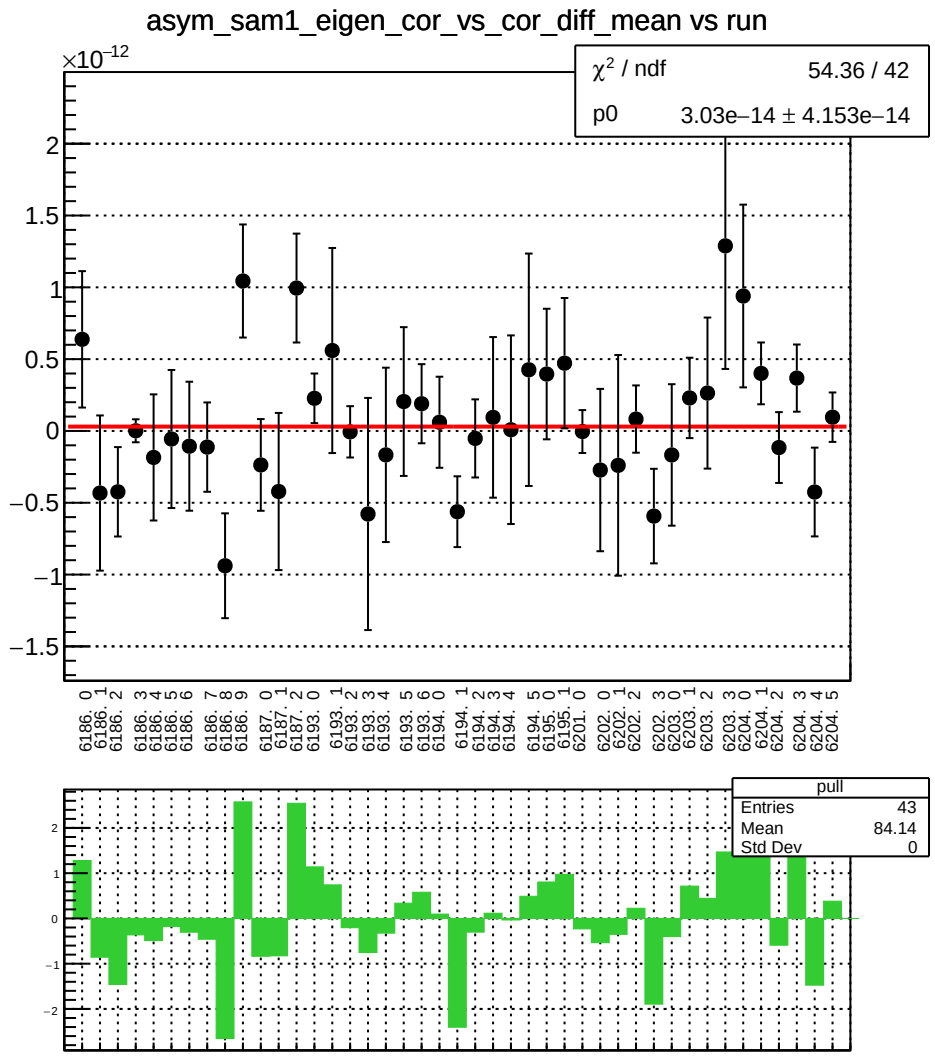

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.64 / 42
p0 0.00826 ± 0.0196
pull
Entries 43
Mean −12.12
Std Dev 0
pull1D
Entries 43
Mean 0.02916
Std Dev 1.106

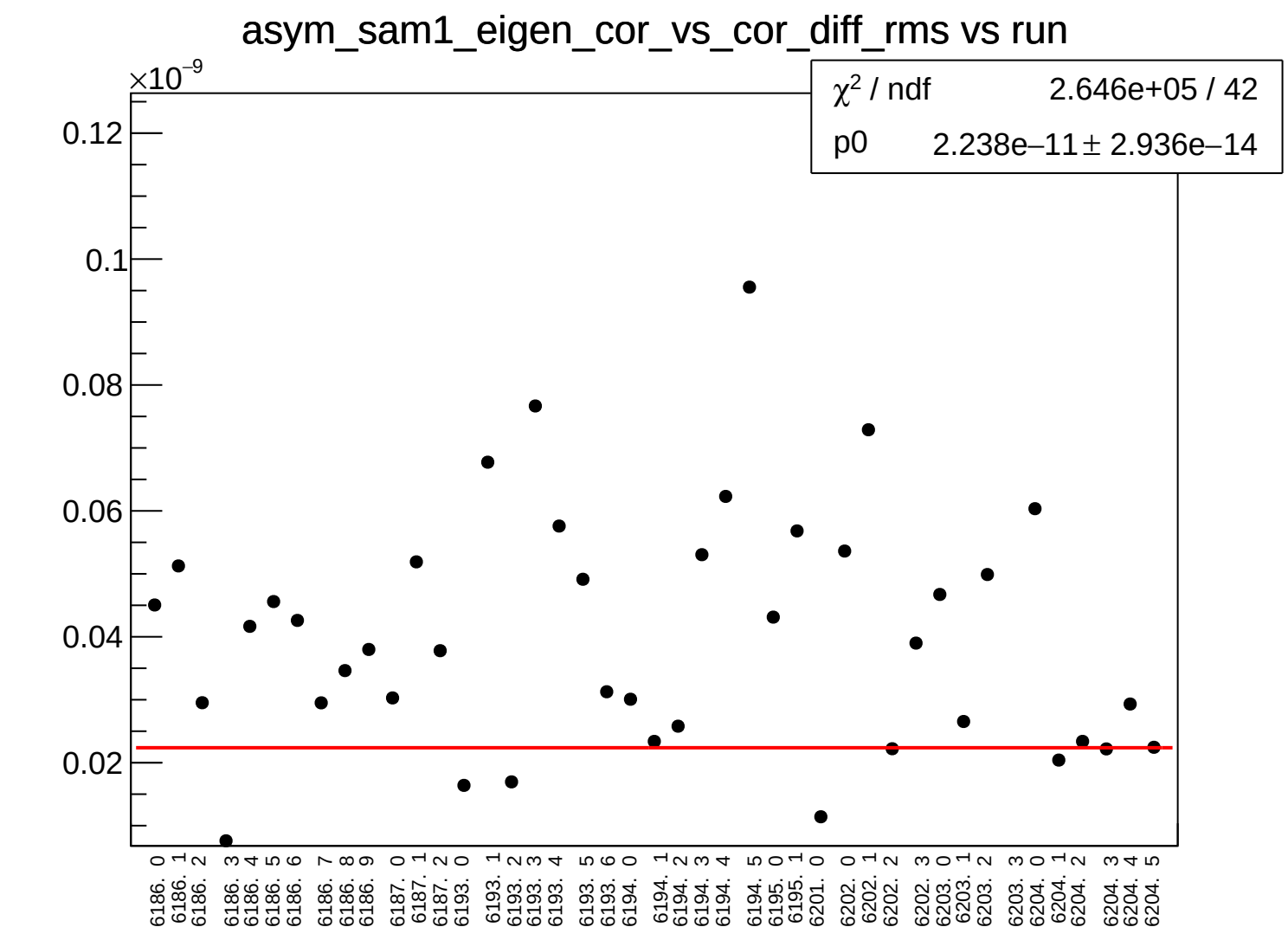

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.295e+05 / 42
p0 11.73 ± 0.01386
45
40
35
30
25
20
15
10
5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

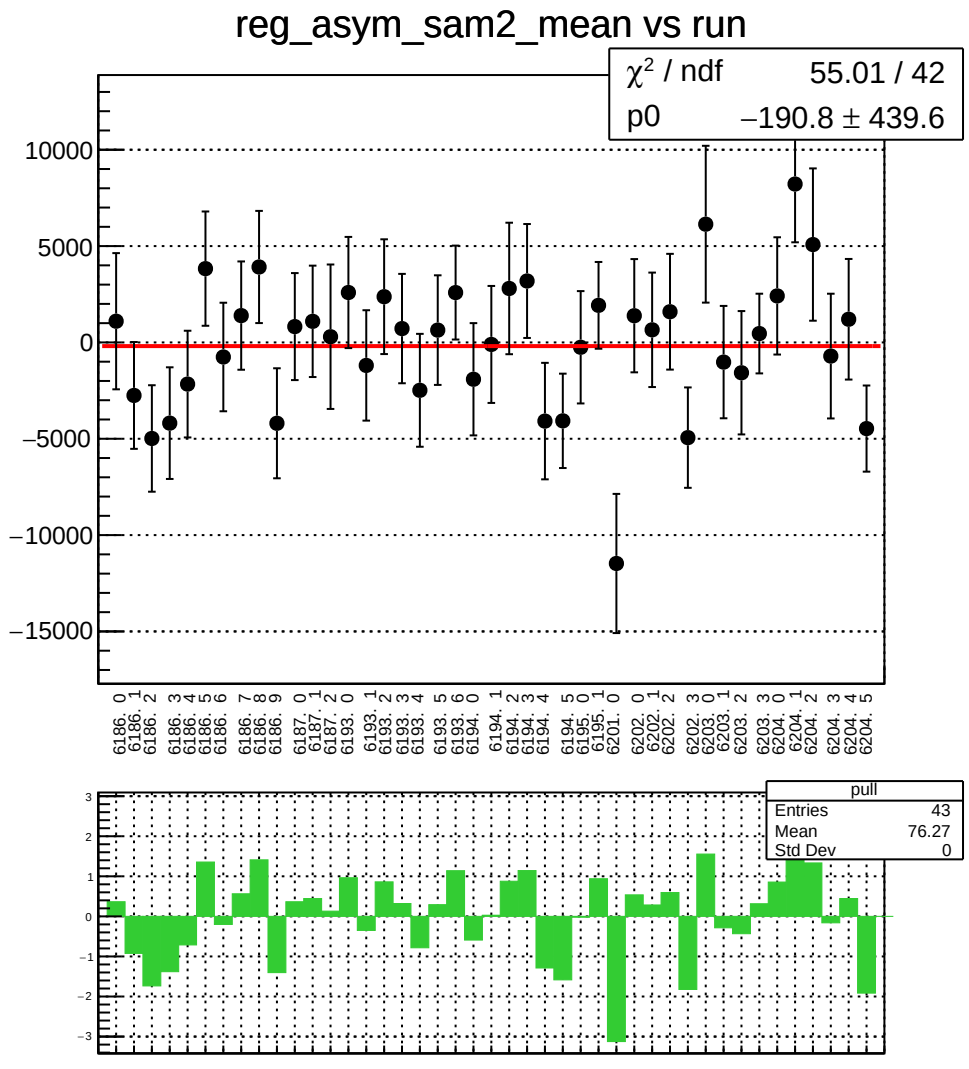

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.64 / 42
p0 0.00826 ± 0.0196
pull
Entries 43
Mean −12.12
Std Dev 0

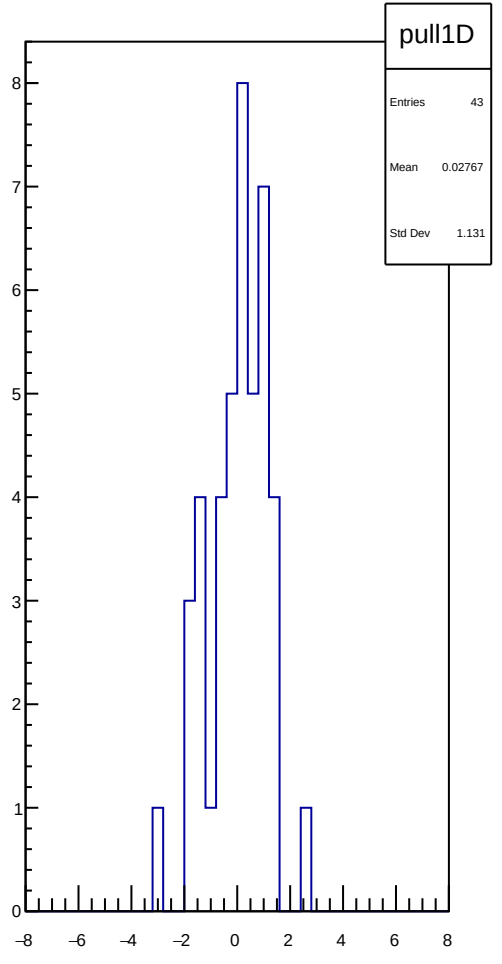

pull1D
Entries 43
Mean 0.02916
Std Dev 1.106

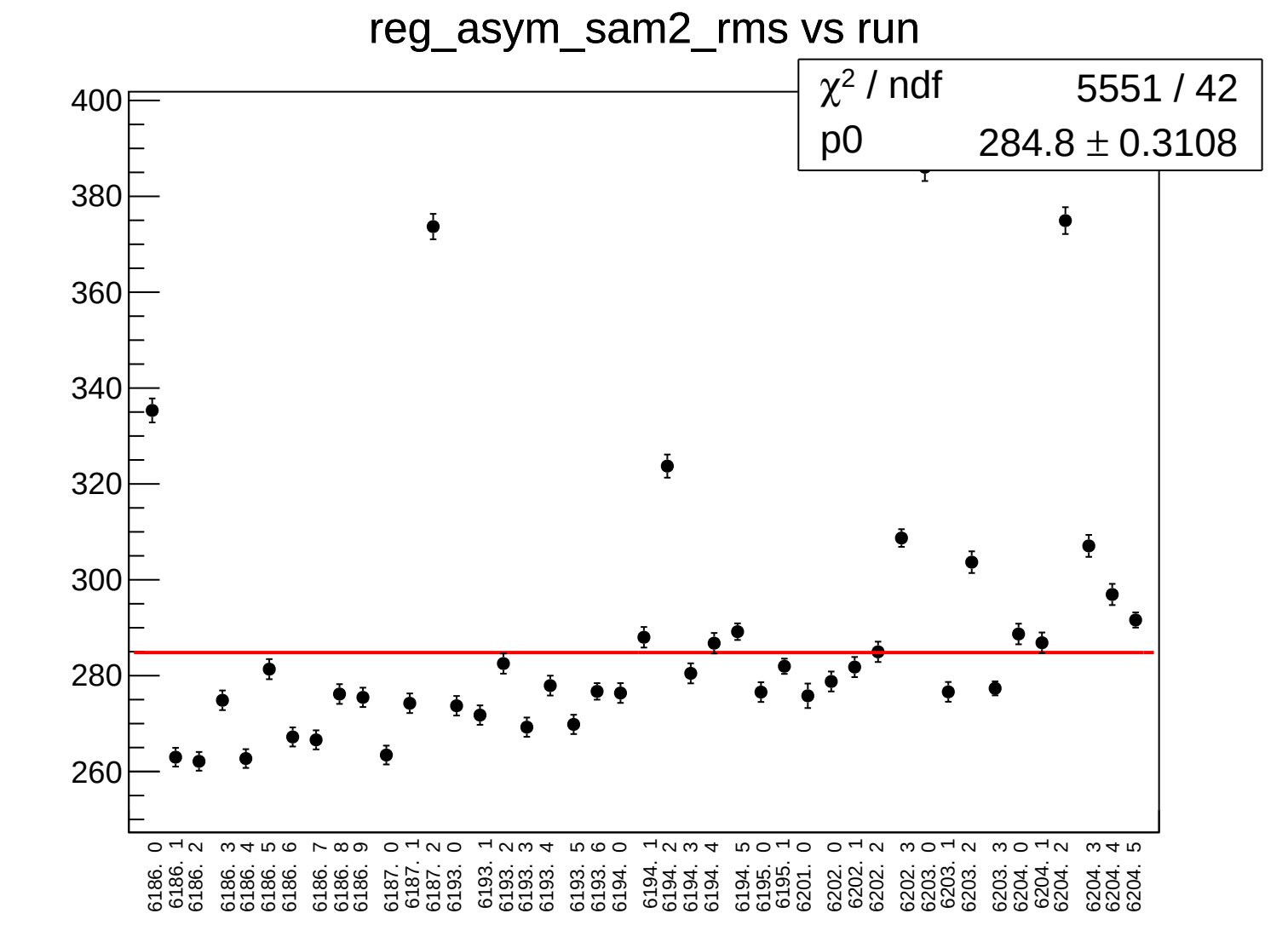

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.295e+05 / 42
p0 11.73 ± 0.01386
45
40
35
30
25
20
15
10
5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

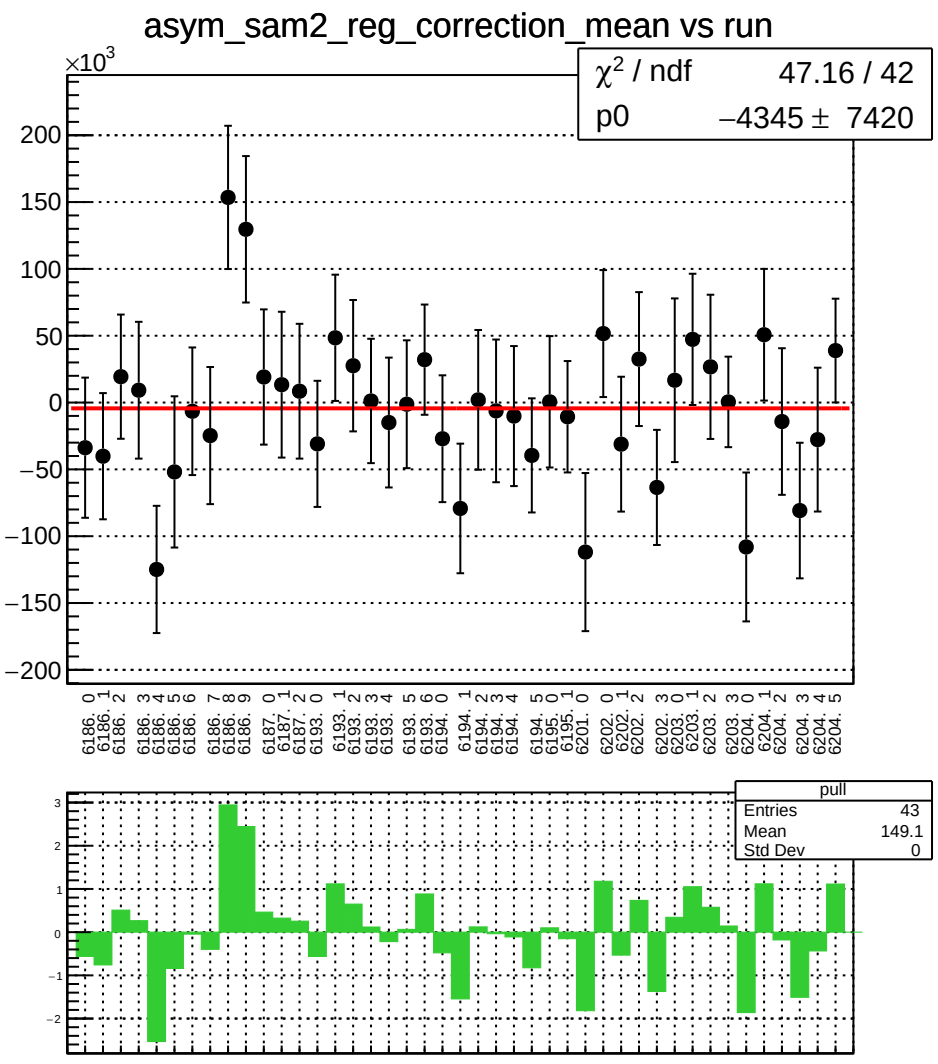

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 54.36 / 42
p0 3.03e−14 ± 4.153e−14
2
1.5
1
0.5
0
−0.5
−1
−1.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 84.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03666
Std Dev 1.124
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

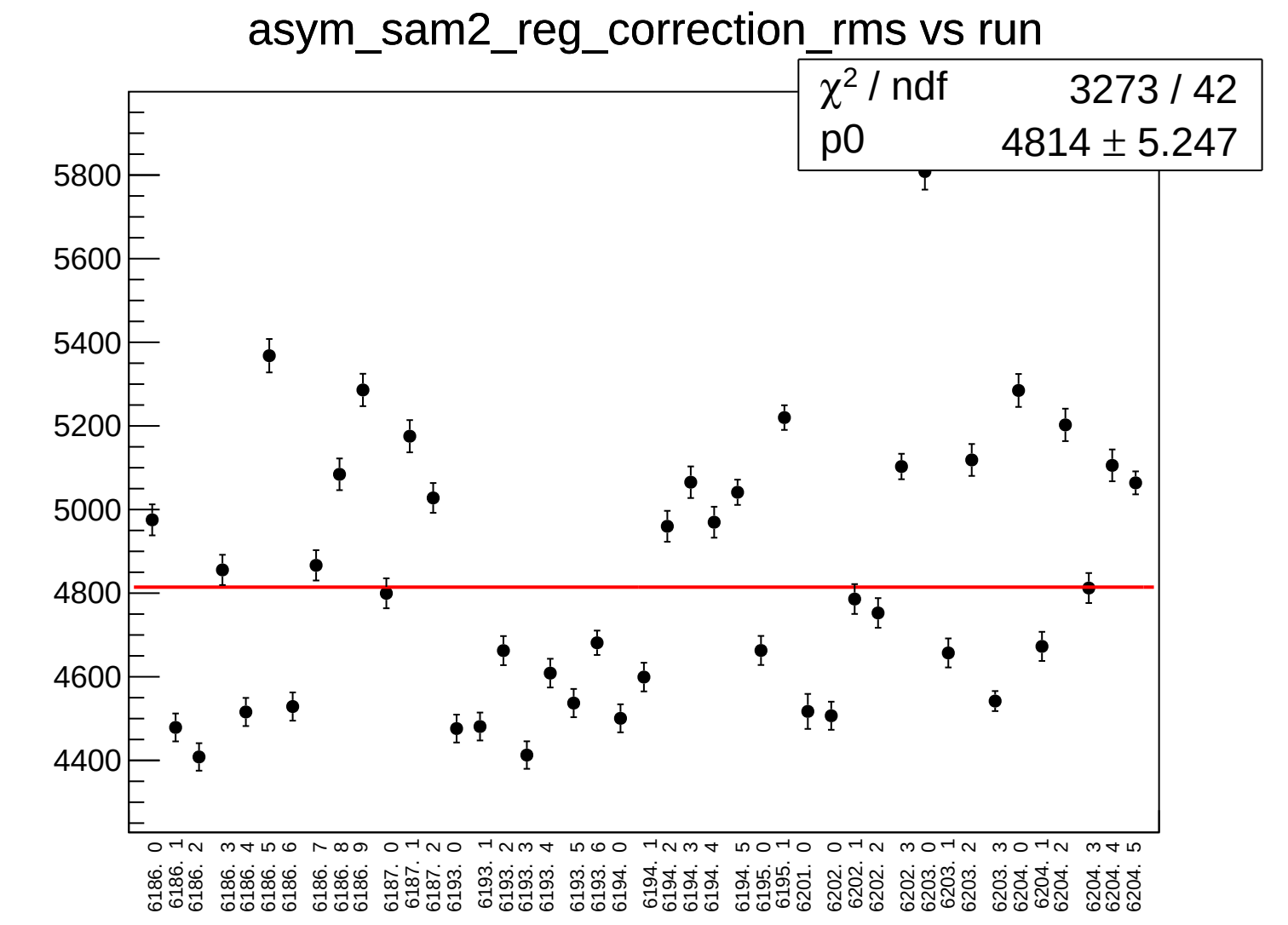

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.646e+05 / 42
p0 2.238e−11 ± 2.936e−14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

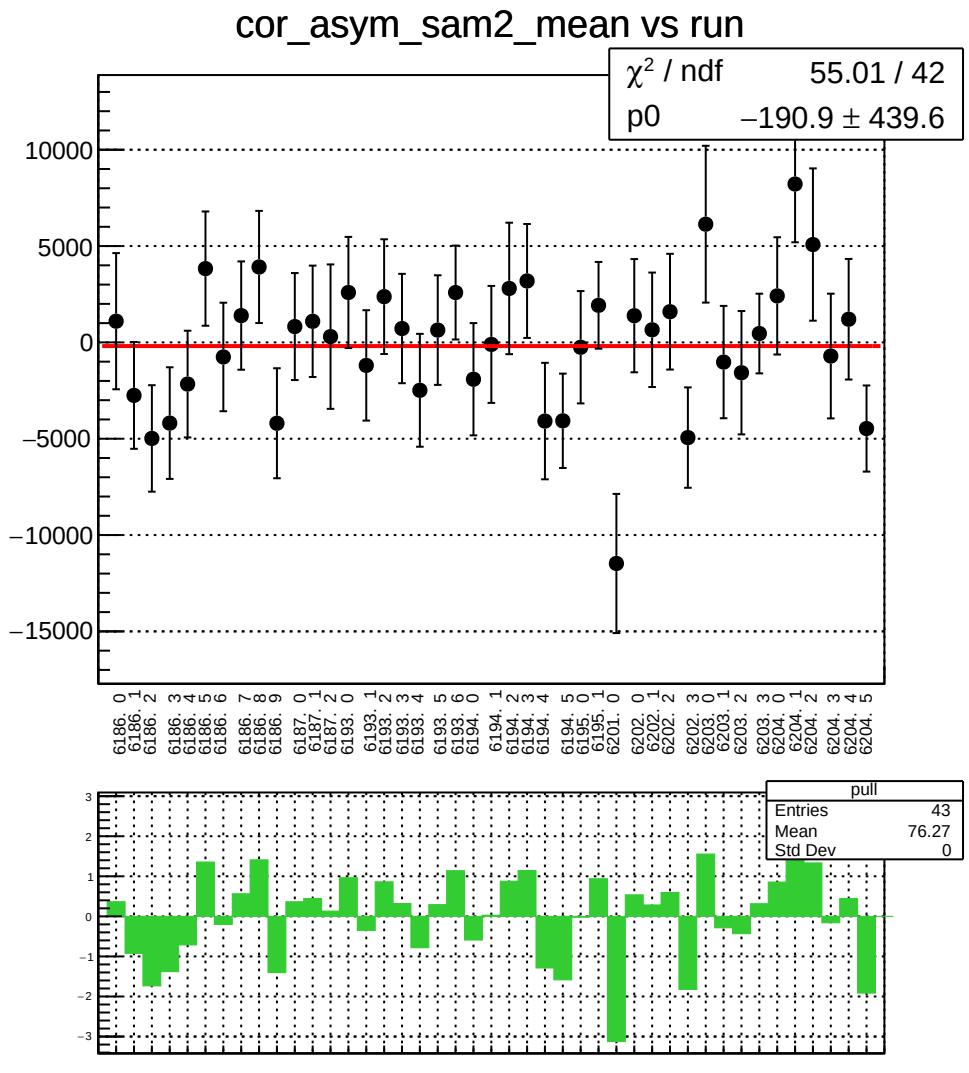

reg_asym_sam2_mean vs run
χ² / ndf 55.01 / 42
p0 −190.8 ± 439.6
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 76.27
Std Dev 0
3
2
1
0
−1
−2
−3

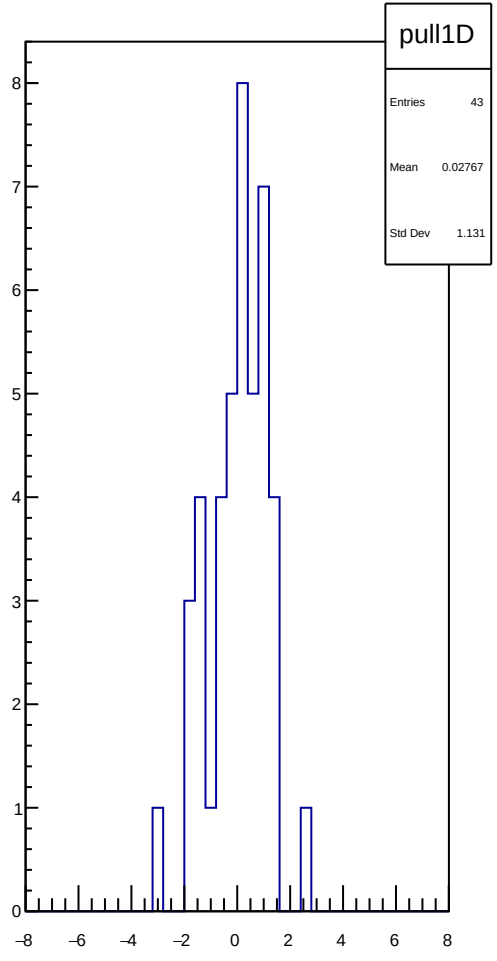

pull1D
Entries 43
Mean 0.02767
Std Dev 1.131
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

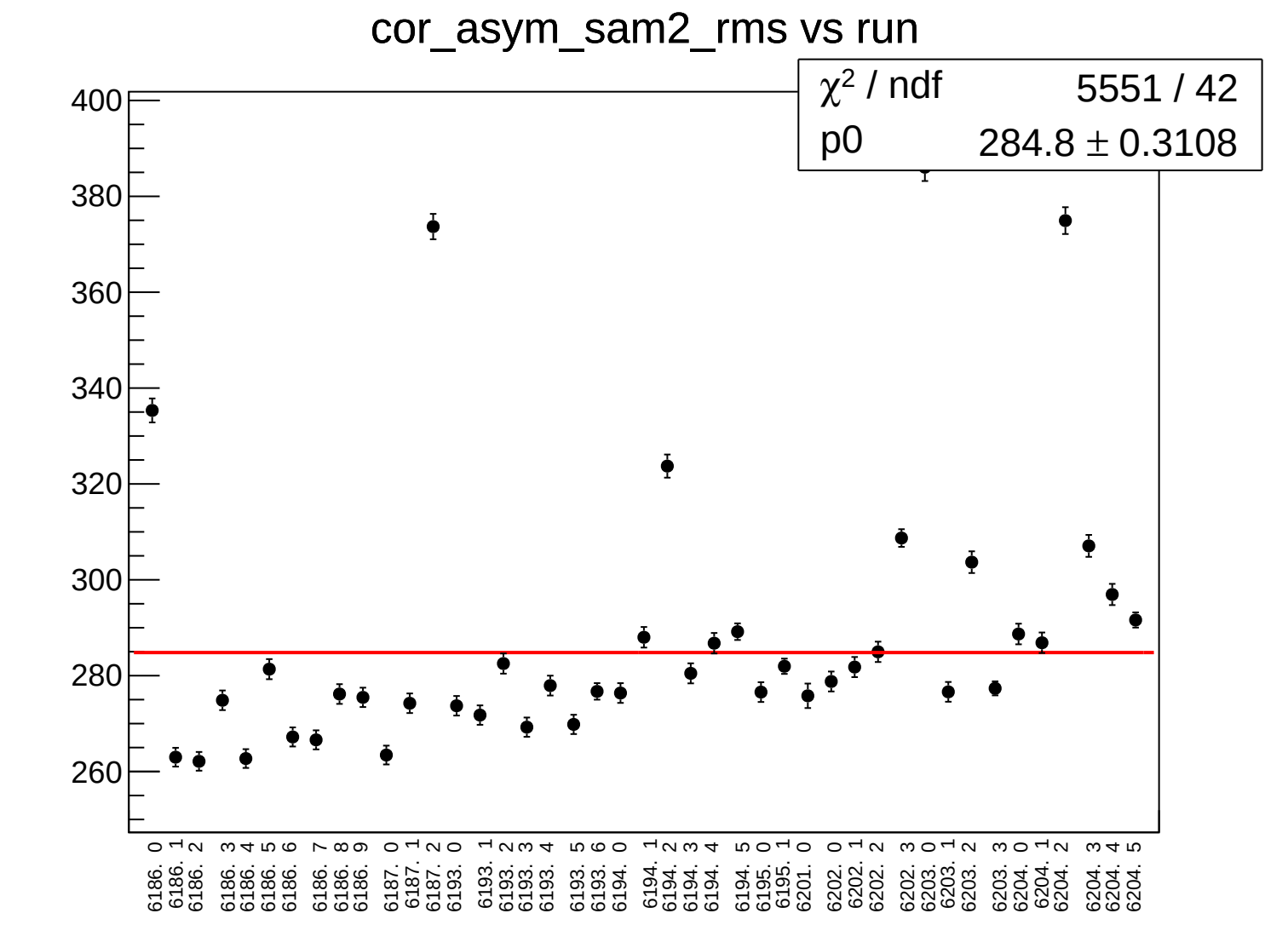

reg_asym_sam2_rms vs run
χ² / ndf 5551 / 42
p0 284.8 ± 0.3108
400
380
360
340
320
300
280
260
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 47.16 / 42
p0 −4345 ± 7420
200
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 149.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.005697
Std Dev 1.047
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_reg_correction_rms vs run
χ² / ndf 3273 / 42
p0 4814 ± 5.247
5800
5600
5400
5200
5000
4800
4600
4400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_sam2_mean vs run
χ² / ndf 55.01 / 42
p0 −190.9 ± 439.6
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 76.27
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.02767
Std Dev 1.131
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam2_rms vs run
χ² / ndf 5551 / 42
p0 284.8 ± 0.3108
400
380
360
340
320
300
280
260
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
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6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6204. 2
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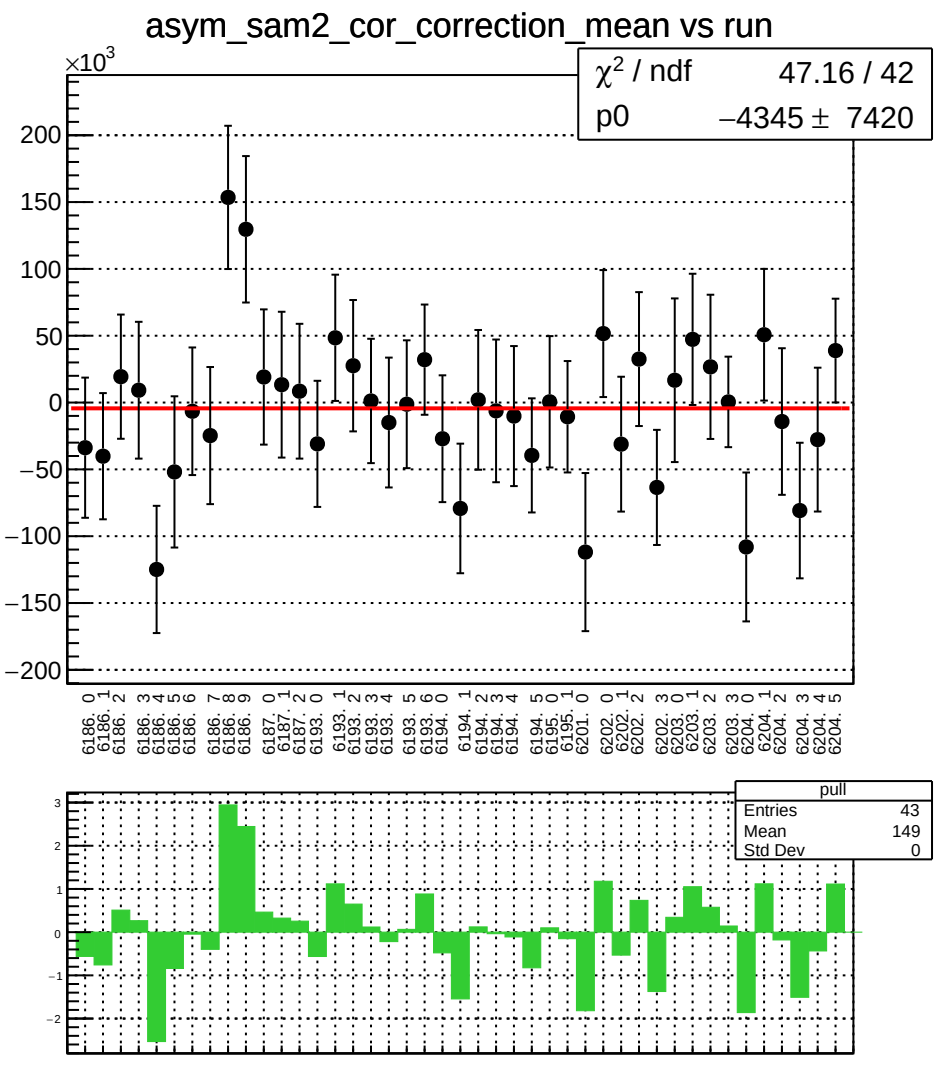
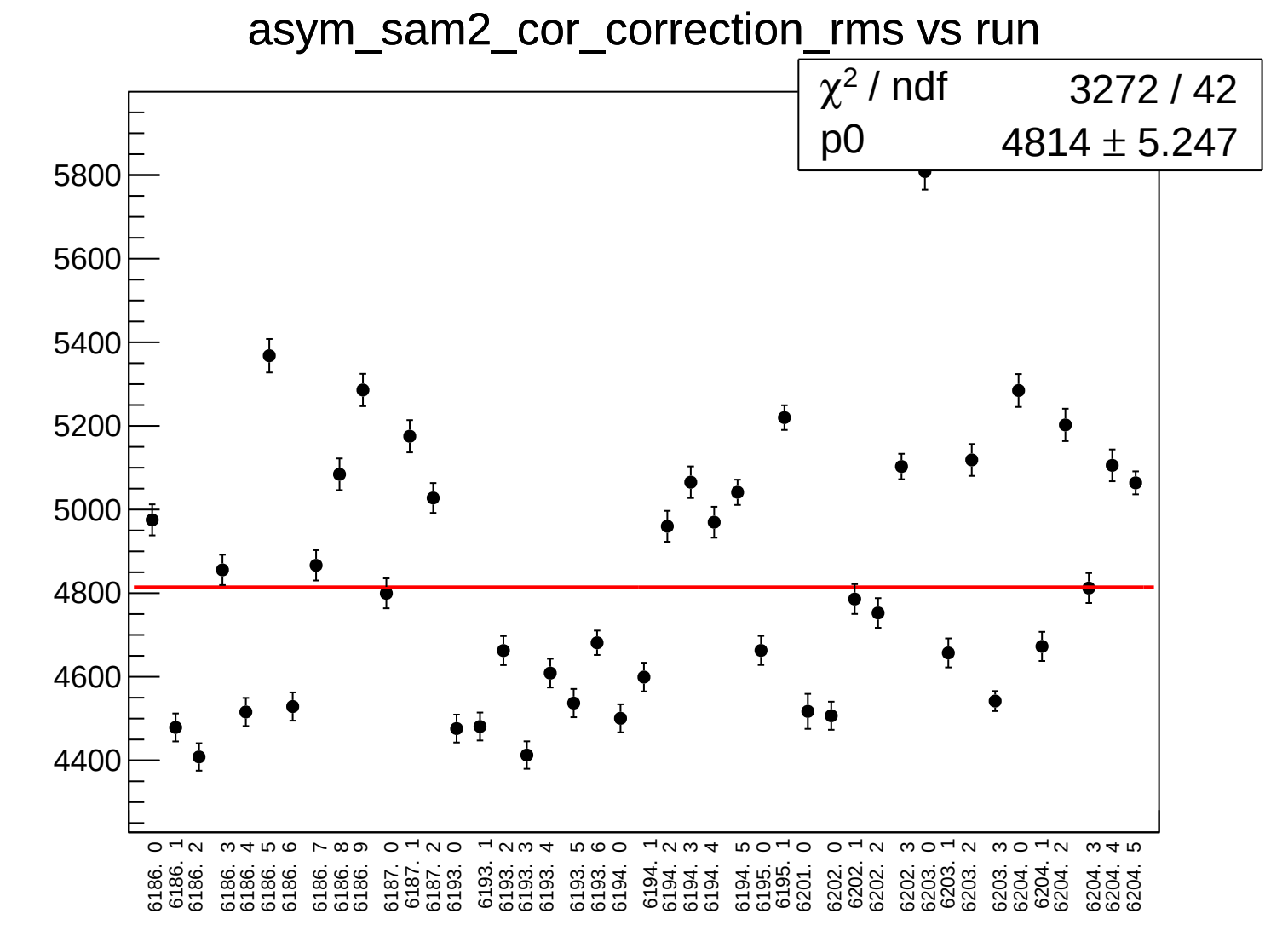
6204. 4
6204. 5


asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 47.16 / 42
p0 −4345 ± 7420
200
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 149
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.005697
Std Dev 1.047
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_cor_correction_rms vs run
χ² / ndf 3272 / 42
p0 4814 ± 5.247
5800
5600
5400
5200
5000
4800
4600
4400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
6204. 0
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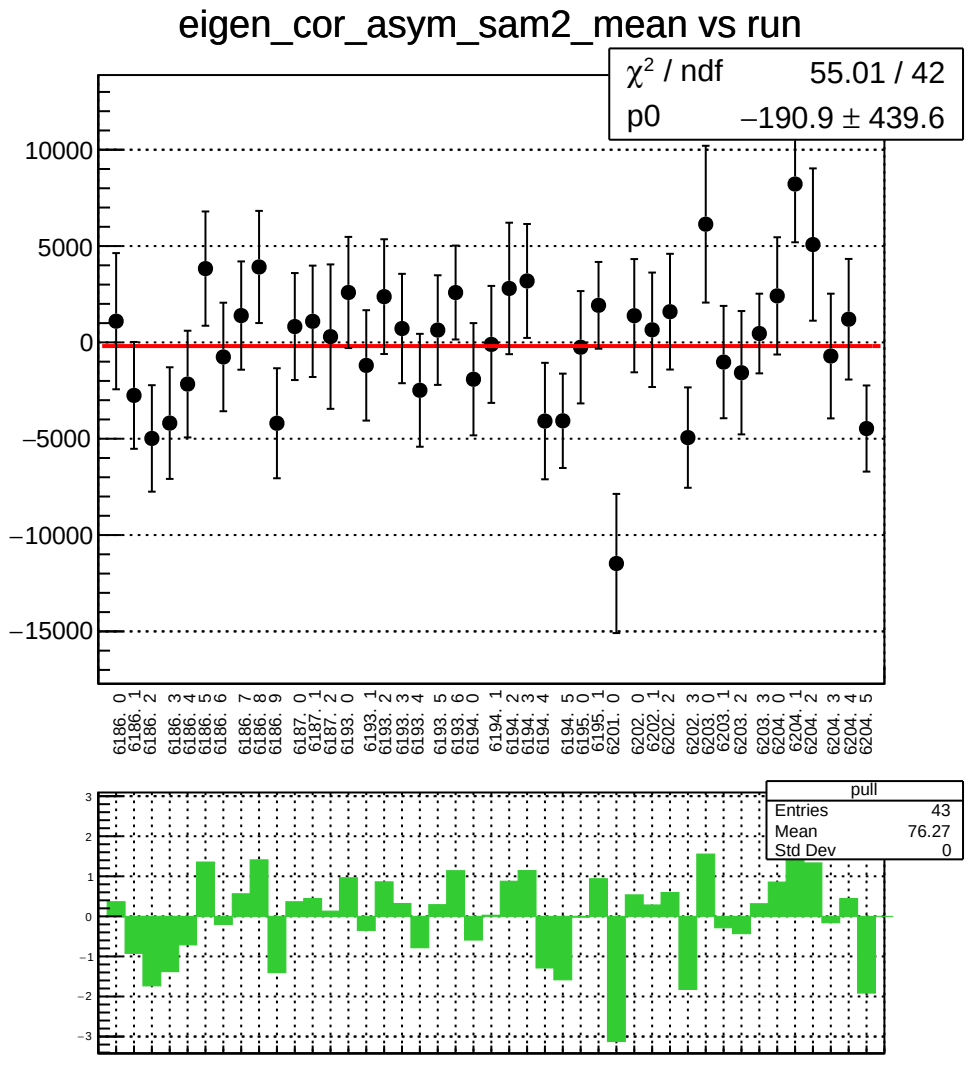
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_sam2_mean vs run
χ² / ndf 55.01 / 42
p0 −190.9 ± 439.6
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
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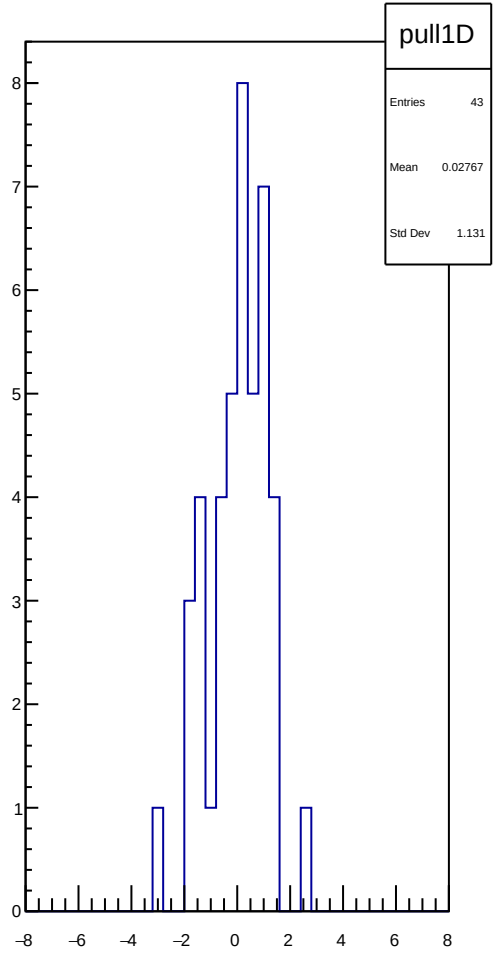
6204. 5
pull
Entries 43
Mean 76.27
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.02767
Std Dev 1.131
8
7
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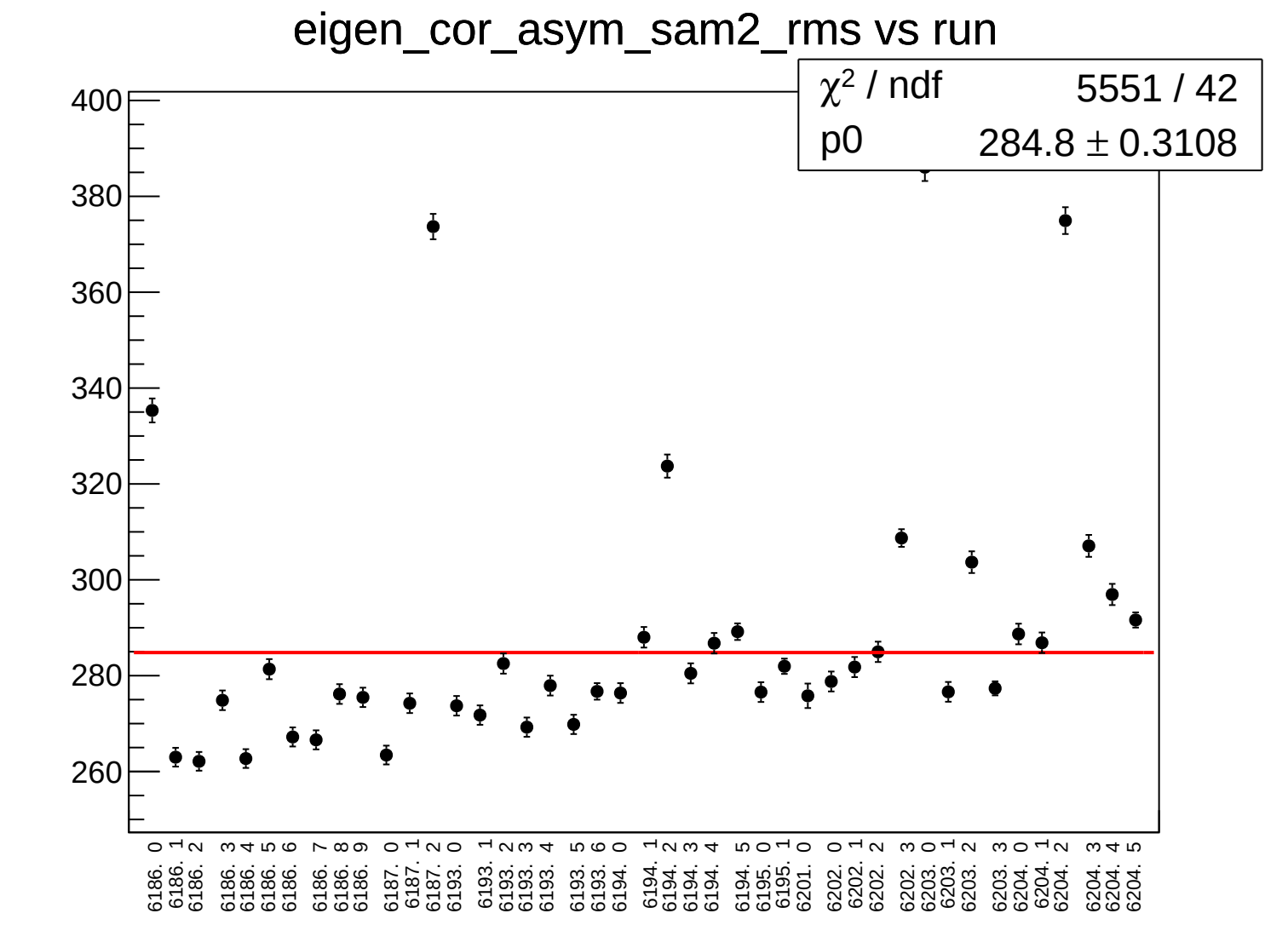
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam2_rms vs run
χ² / ndf 5551 / 42
p0 284.8 ± 0.3108
400
380
360
340
320
300
280
260
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
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6204. 2
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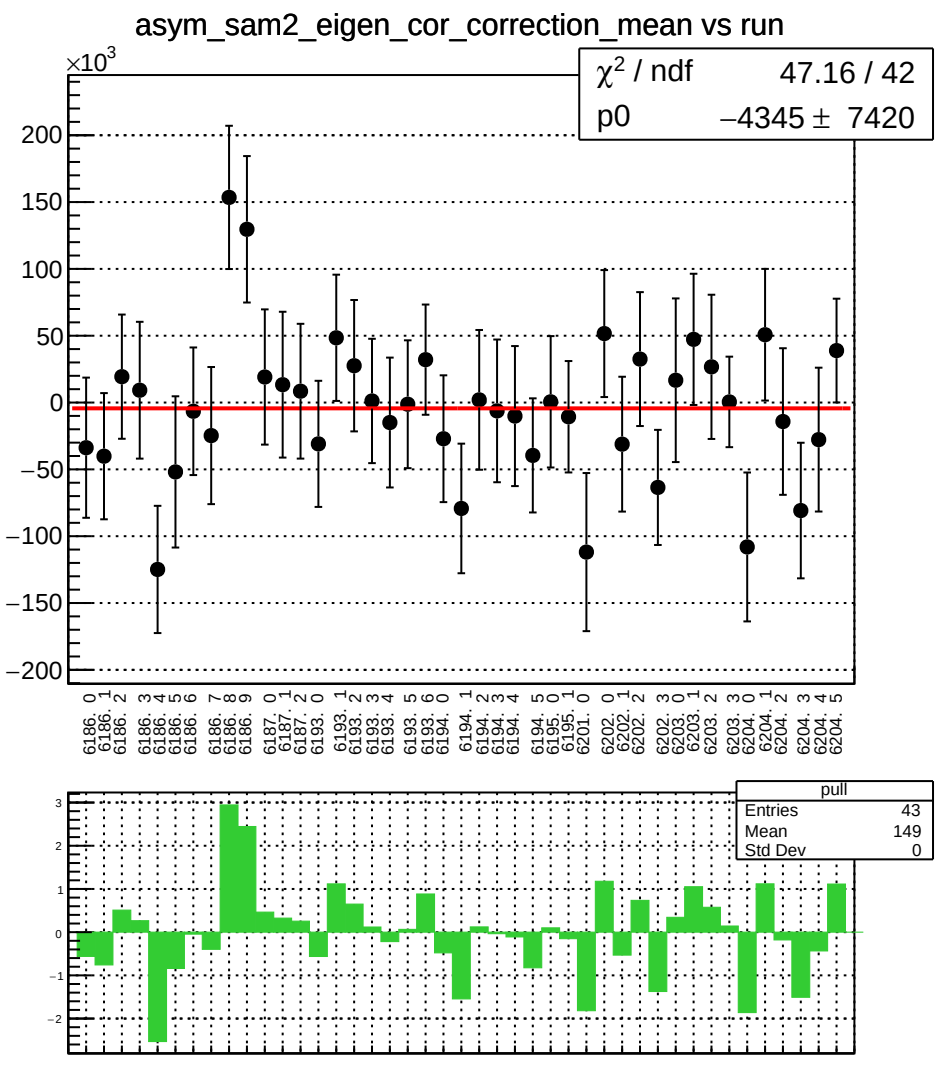
6204. 4
6204. 5


asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 47.16 / 42
p0 −4345 ± 7420
200
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
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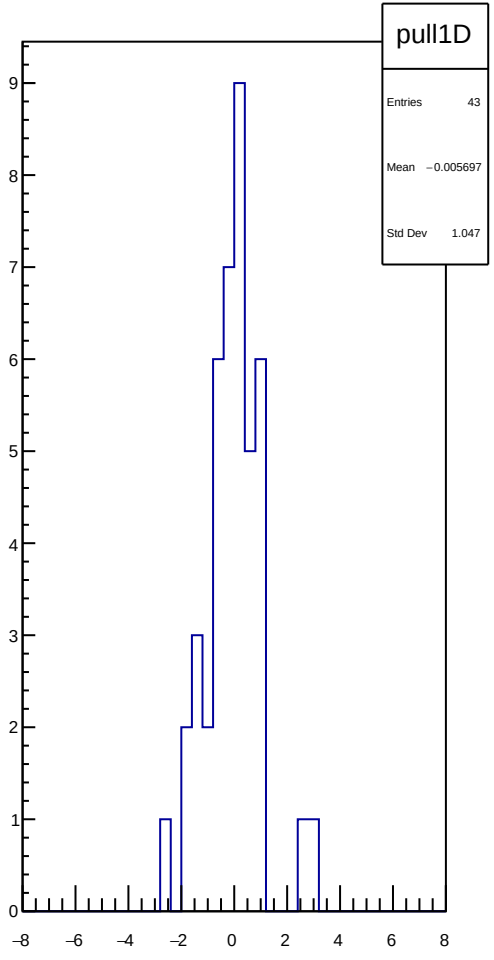
6204. 4
6204. 5
pull
Entries 43
Mean 149
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.005697
Std Dev 1.047
9
8
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6
5
4
3
2
1
0
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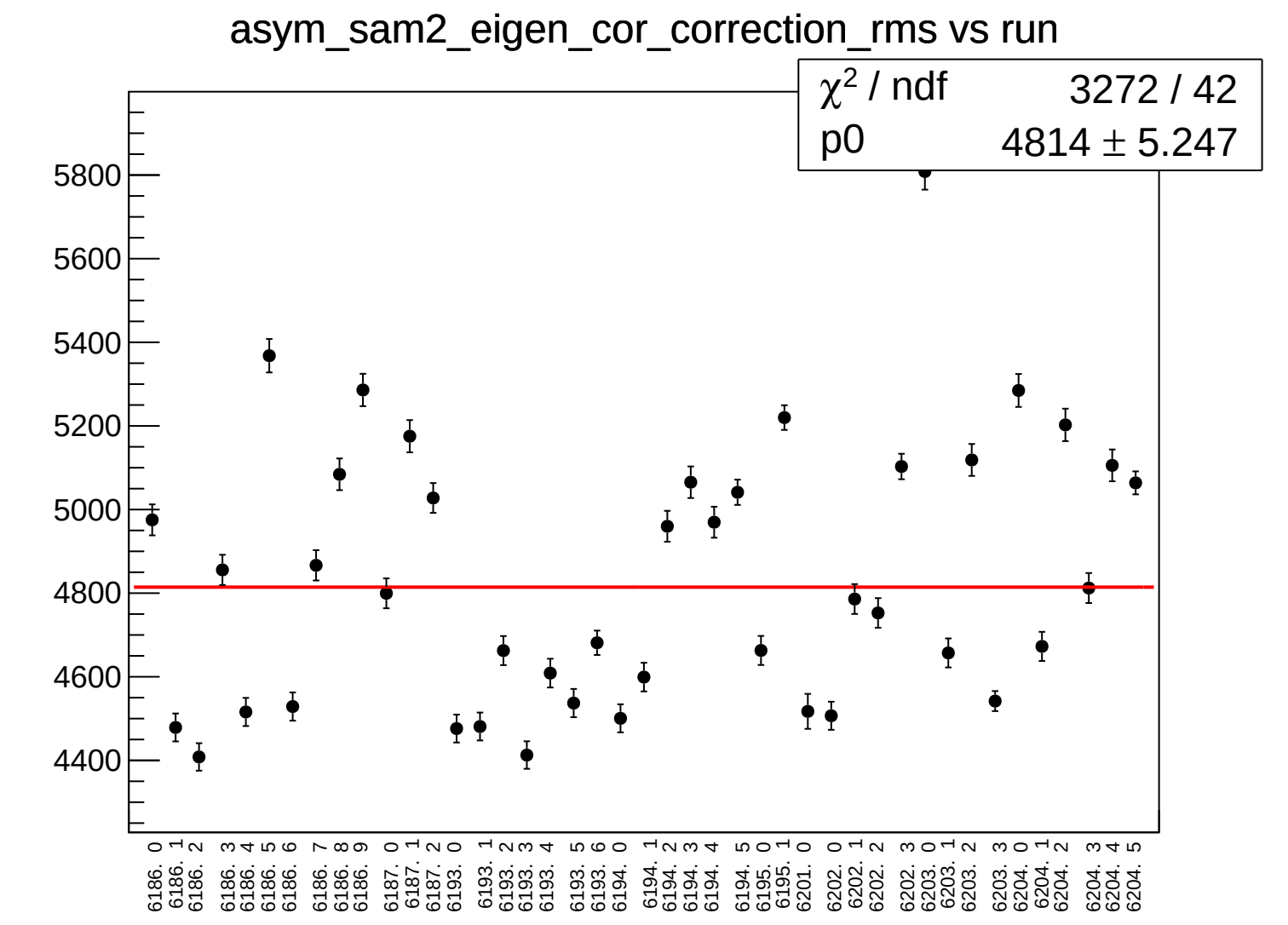
−6
−4
−2
0
2
4
6
8


asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 3272 / 42
p0 4814 ± 5.247
5800
5600
5400
5200
5000
4800
4600
4400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
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6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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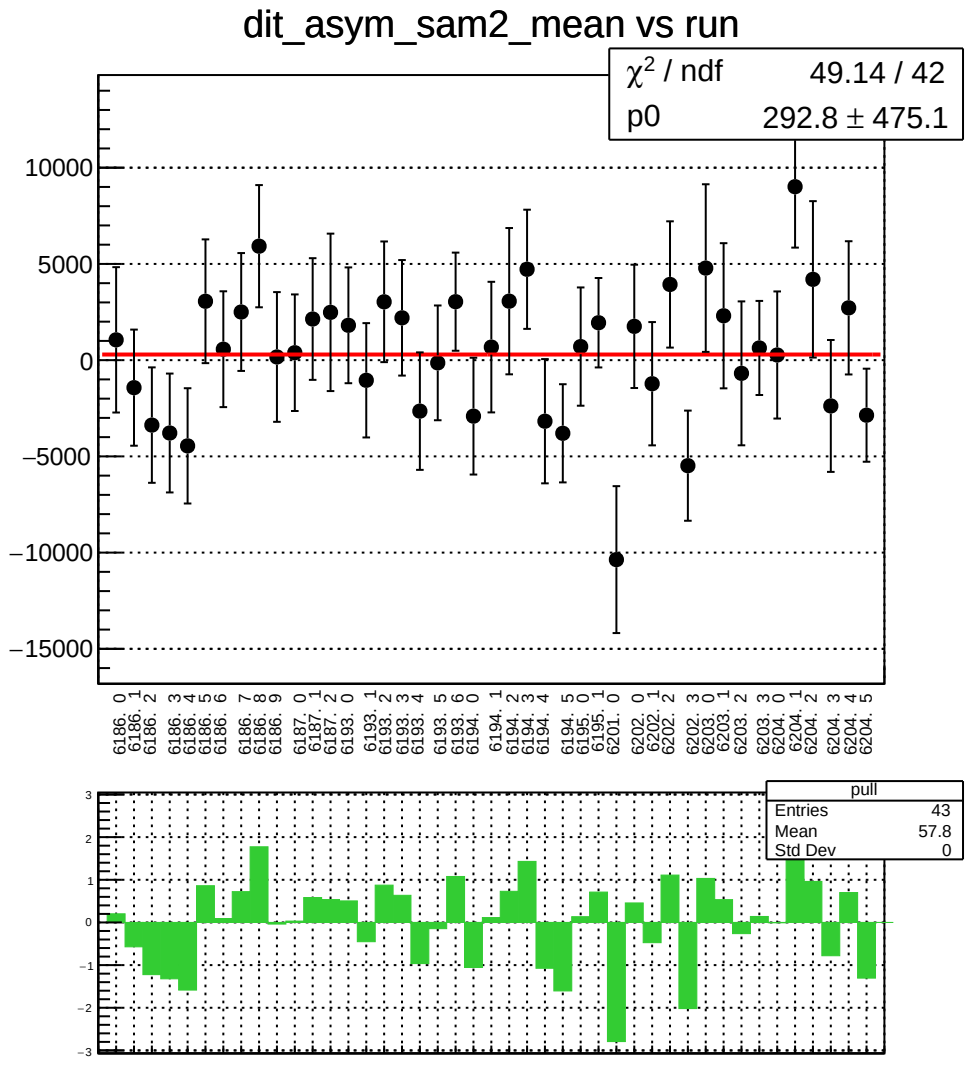
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_sam2_mean vs run
χ² / ndf 49.14 / 42
p0 292.8 ± 475.1
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
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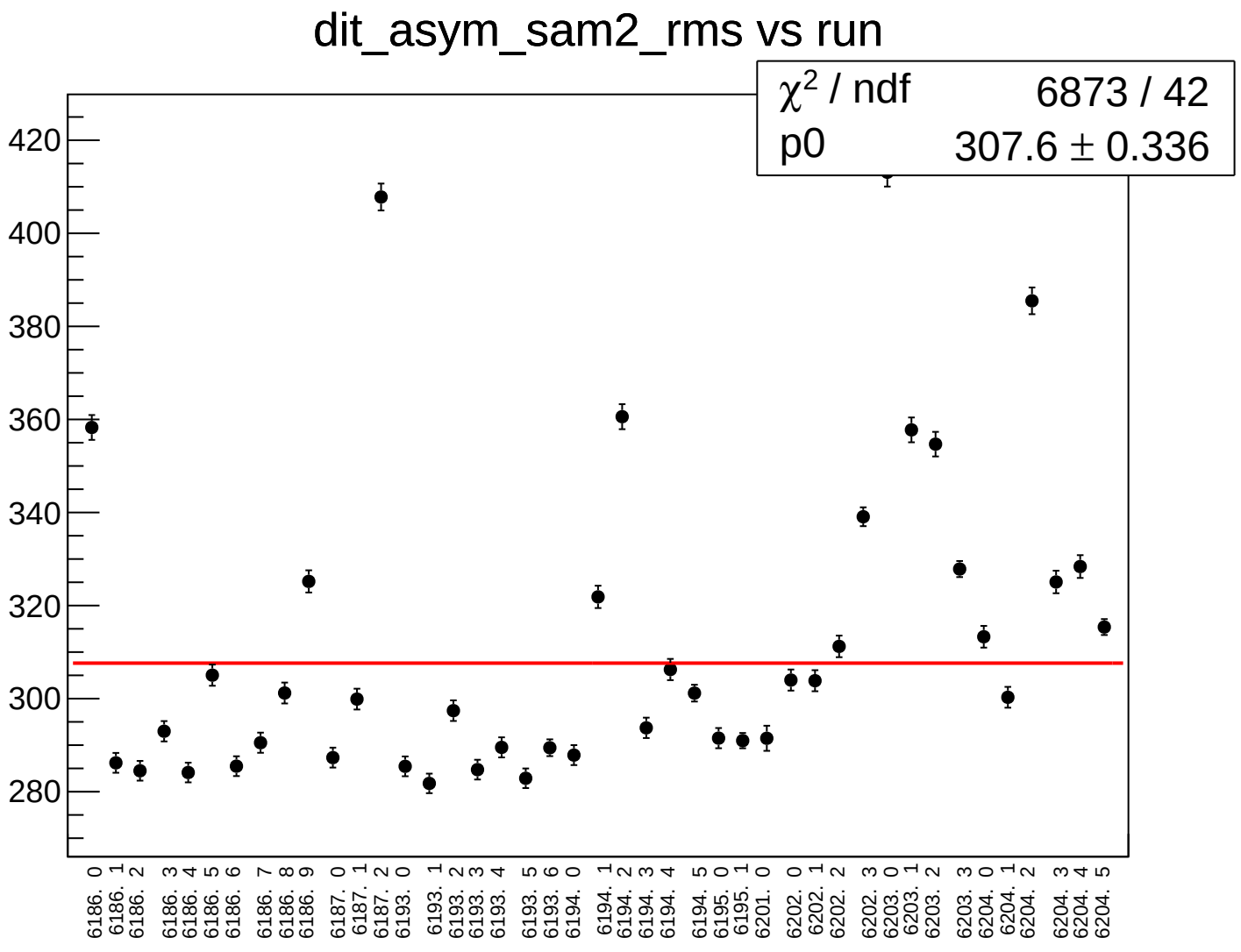
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 57.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.02394
Std Dev 1.069
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam2_rms vs run
χ² / ndf 6873 / 42
p0 307.6 ± 0.336
420
400
380
360
340
320
300
280
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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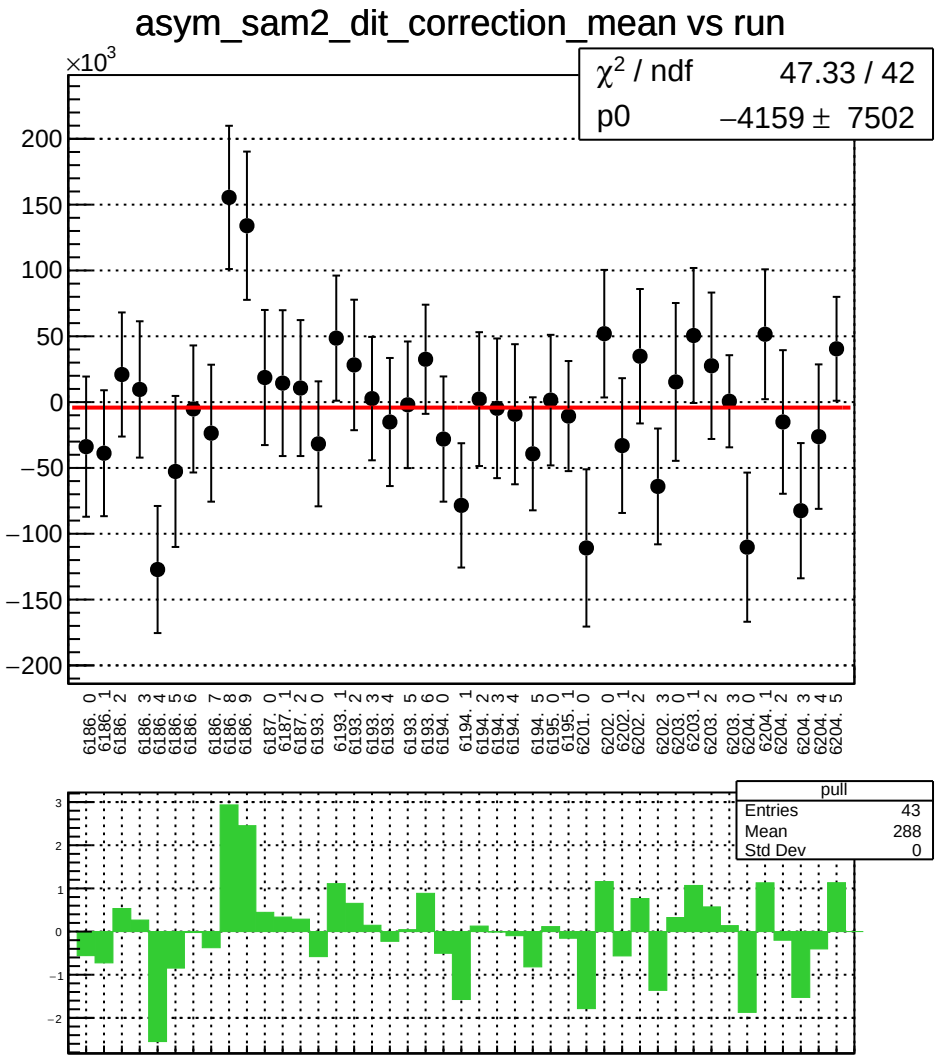
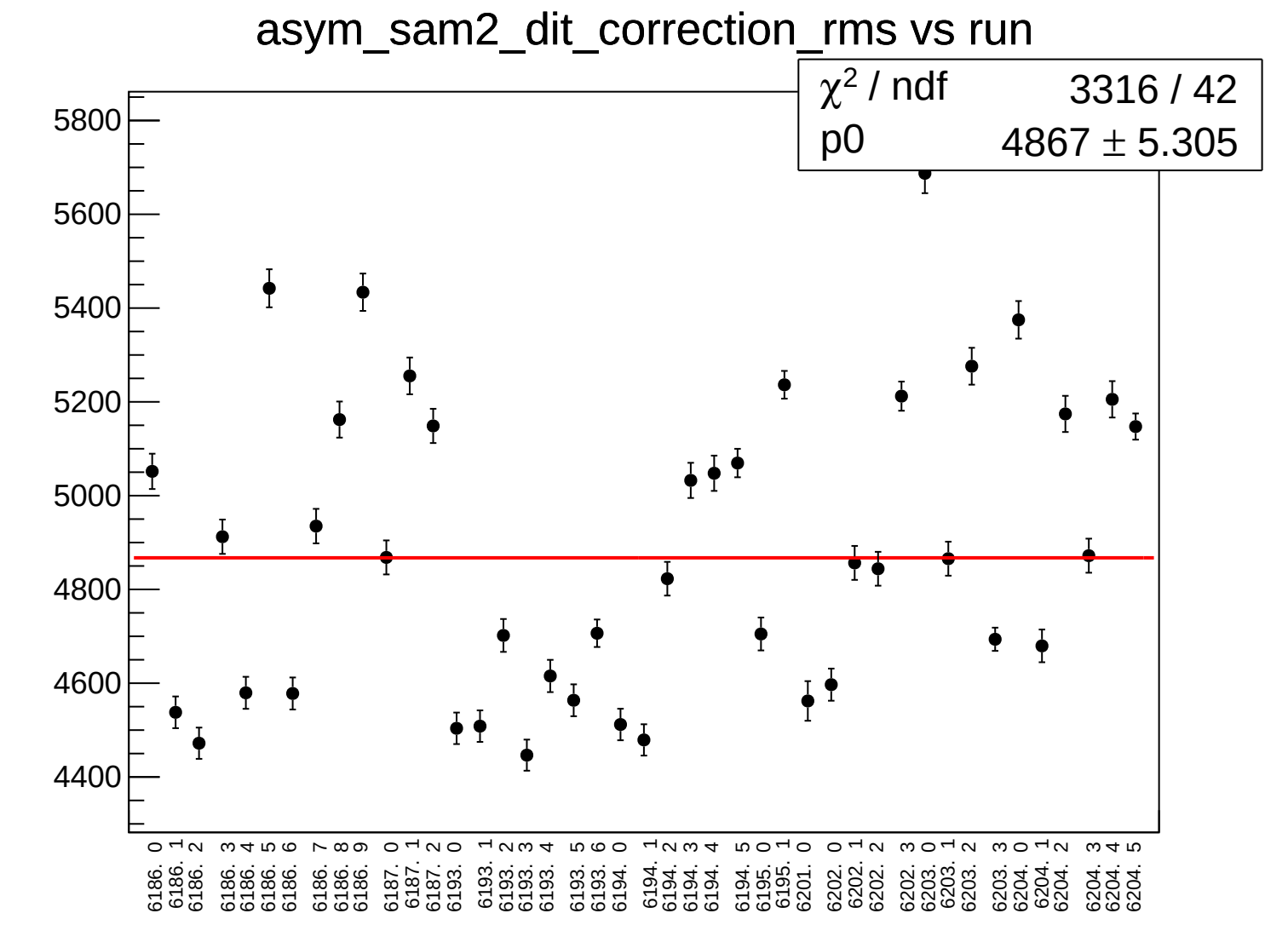
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 47.33 / 42
p0 −4159 ± 7502
200
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 288
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.002811
Std Dev 1.049
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_dit_correction_rms vs run
χ² / ndf 3316 / 42
p0 4867 ± 5.305
5800
5600
5400
5200
5000
4800
4600
4400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
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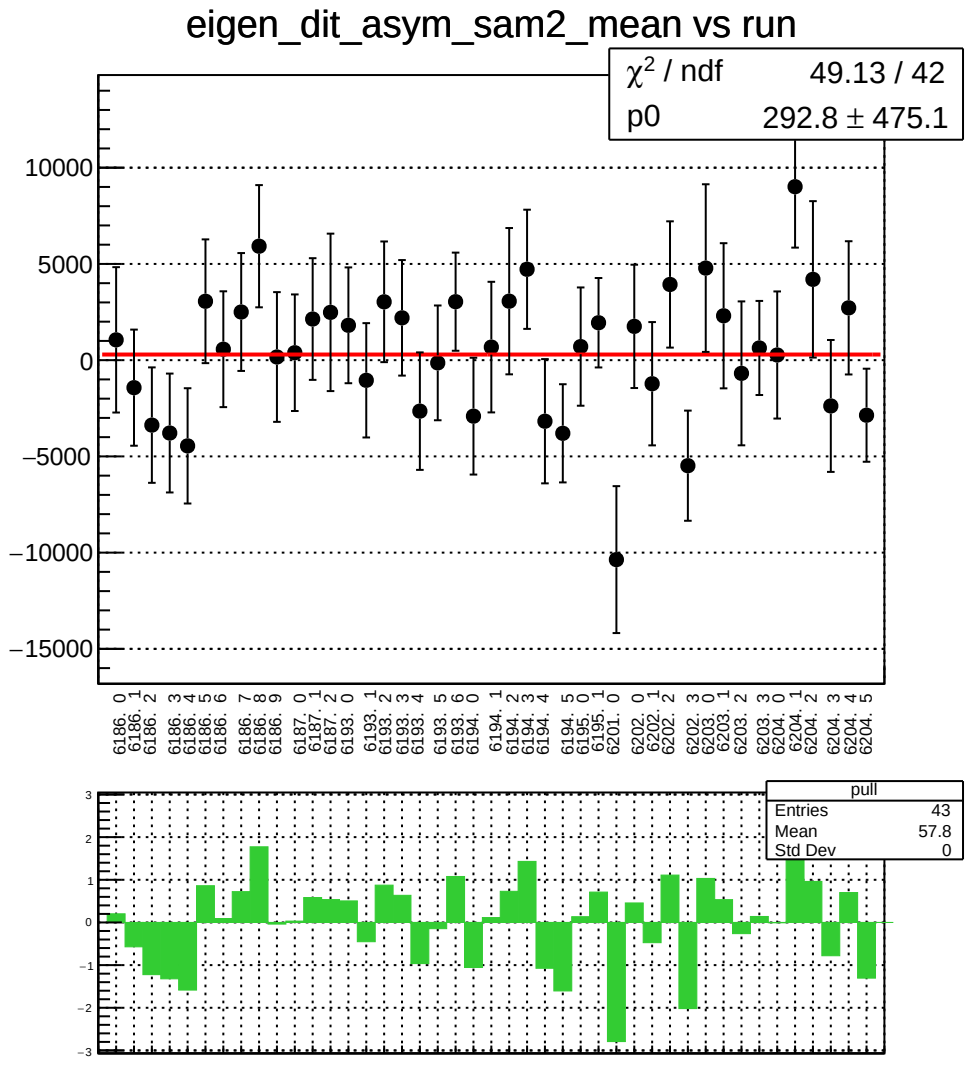
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_sam2_mean vs run
χ² / ndf 49.13 / 42
p0 292.8 ± 475.1
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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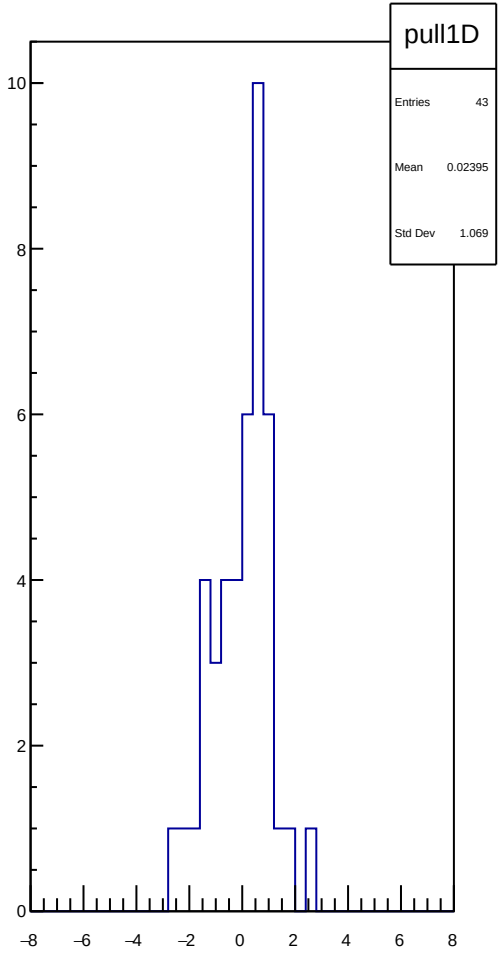
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 57.8
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.02395
Std Dev 1.069
10
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4
2
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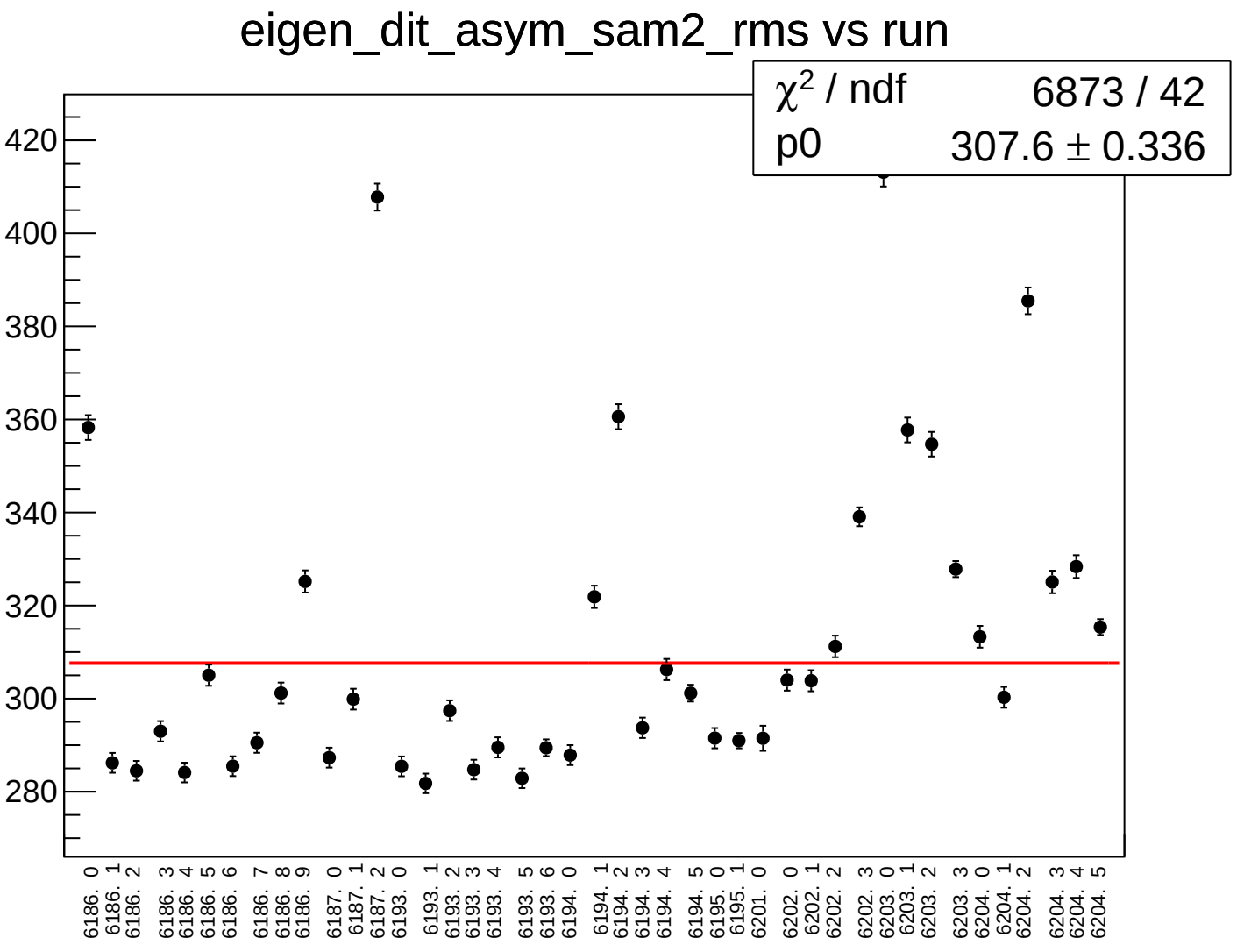
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam2_rms vs run
χ² / ndf 6873 / 42
p0 307.6 ± 0.336
420
400
380
360
340
320
300
280
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
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6187. 2
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6202. 2
6202. 3
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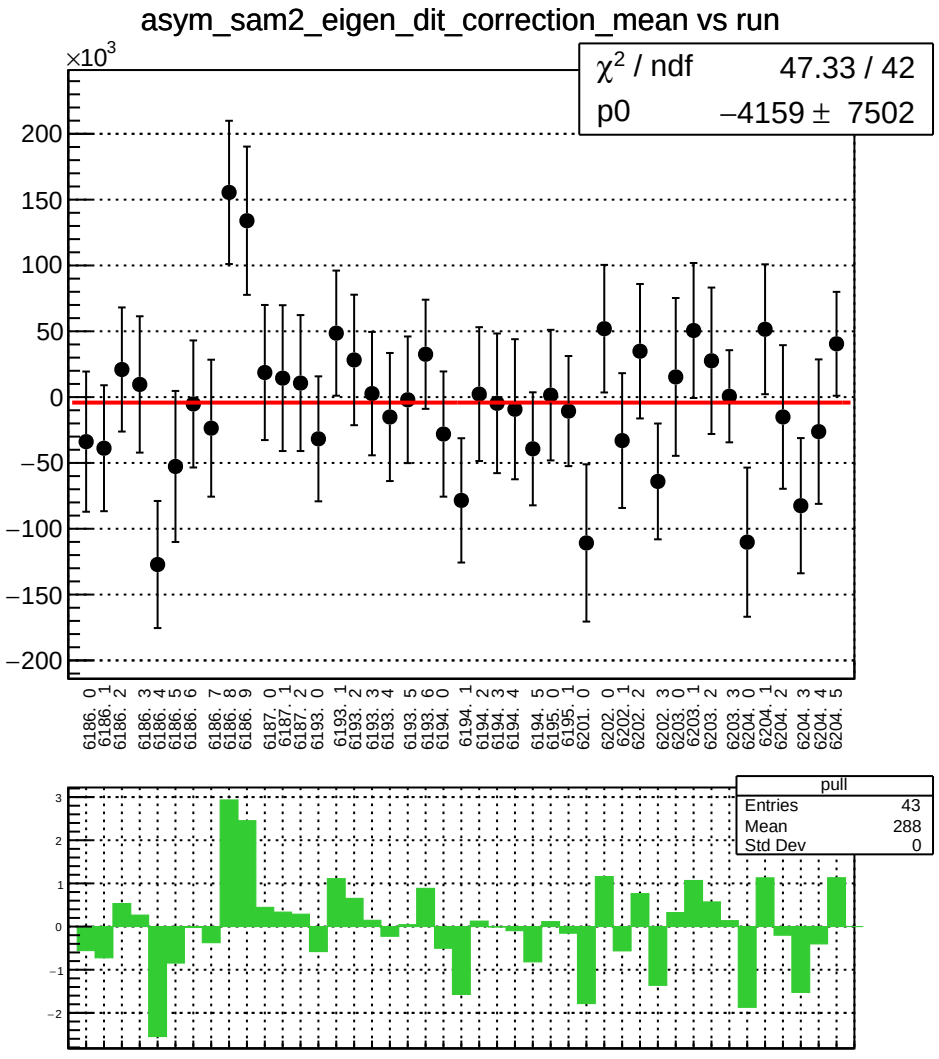
6204. 4
6204. 5


asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 47.33 / 42
p0 −4159 ± 7502
200
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
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6195. 0
6195. 1
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6202. 1
6202. 2
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pull
Entries 43
Mean 288
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.002811
Std Dev 1.049
9
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−6
−4
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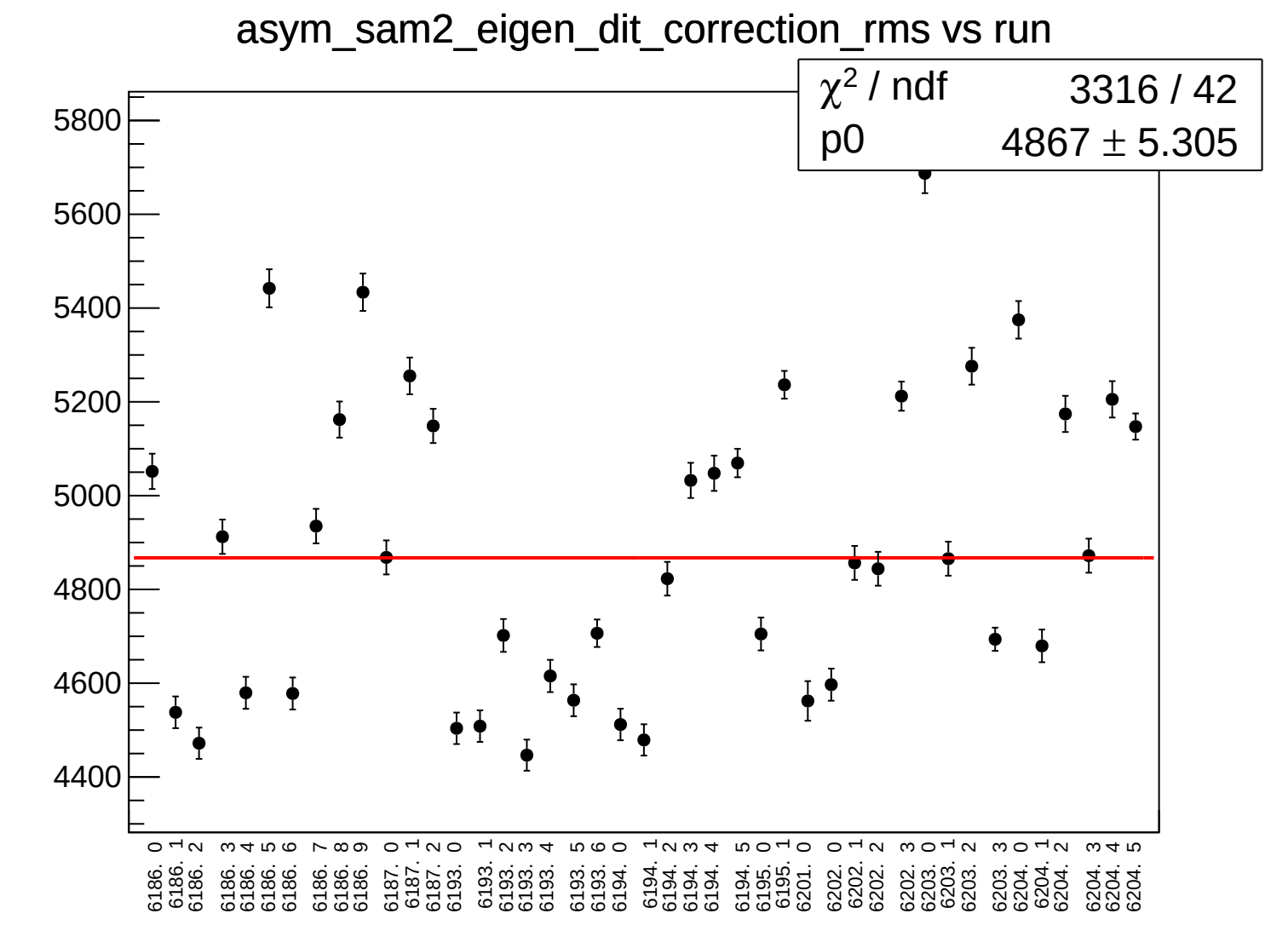
6
8


asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 3316 / 42
p0 4867 ± 5.305
5800
5600
5400
5200
5000
4800
4600
4400
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 6
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6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
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6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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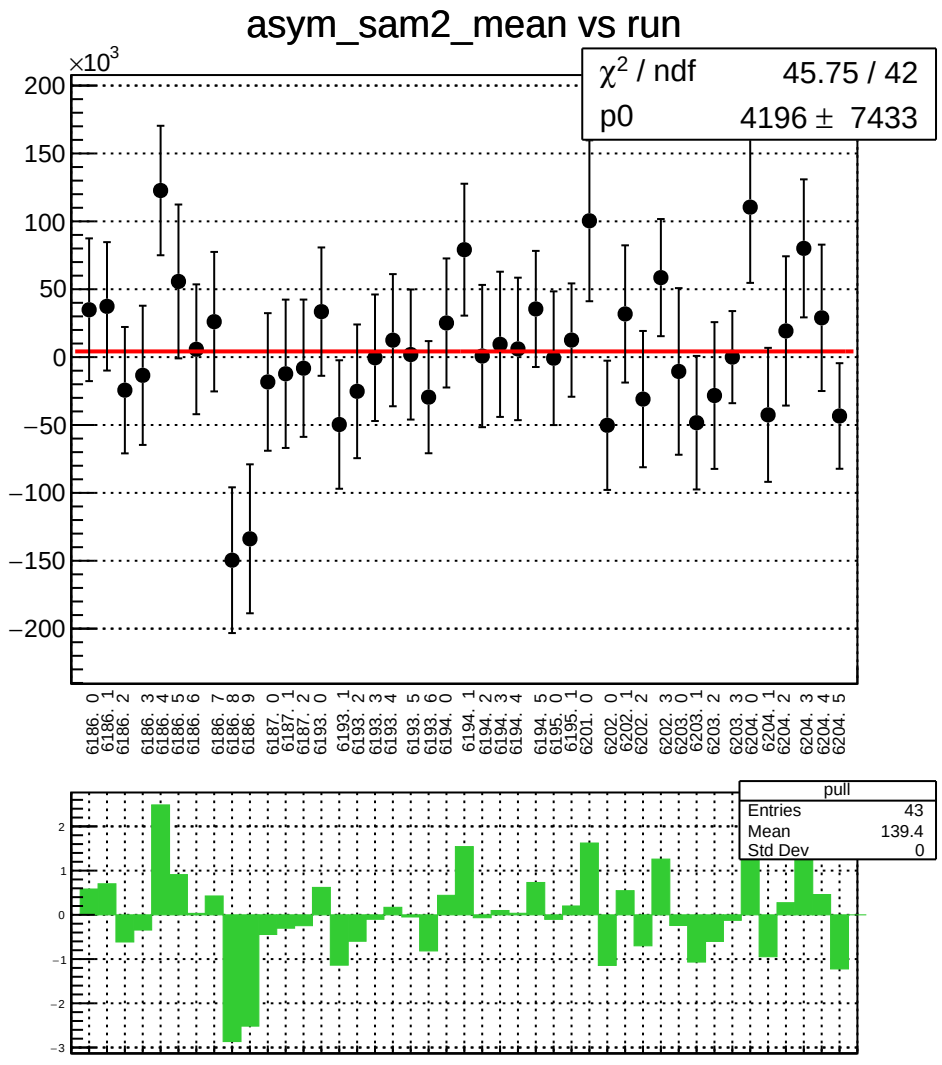
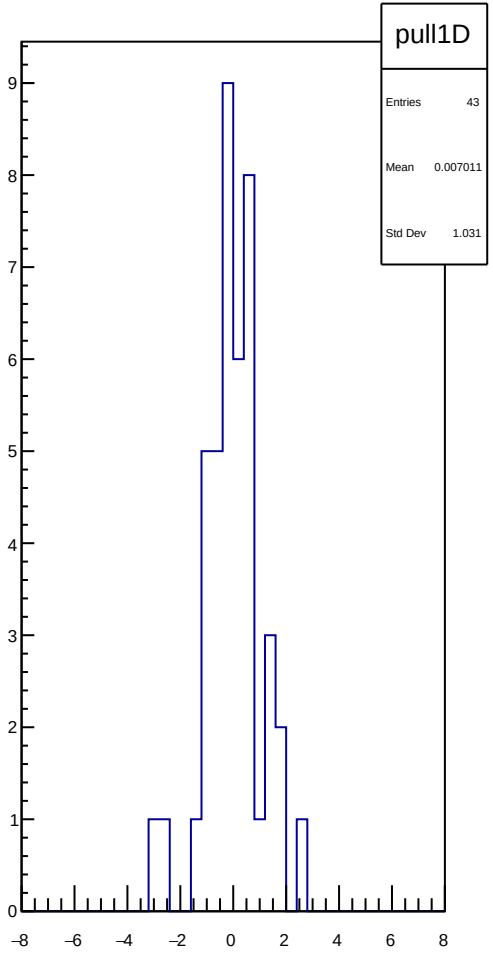
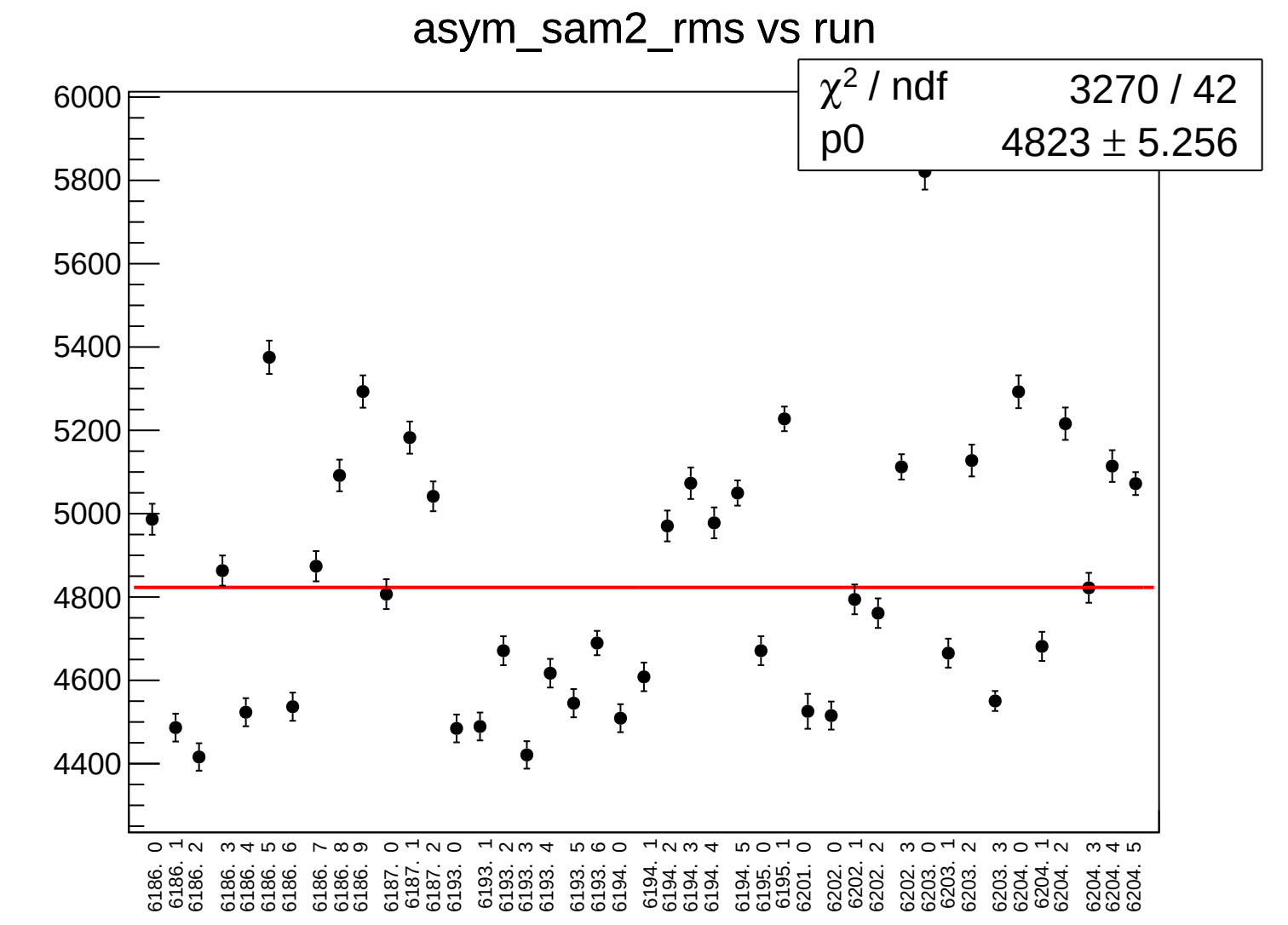
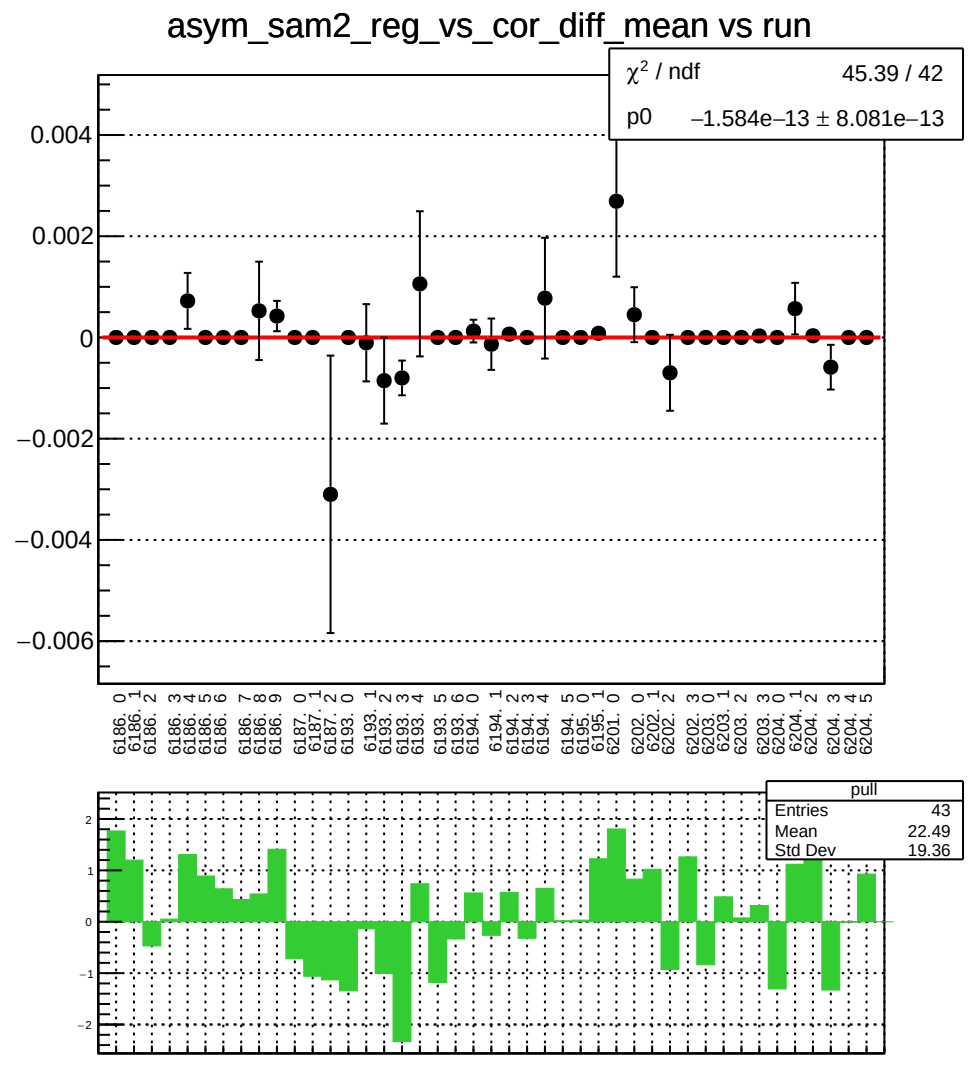
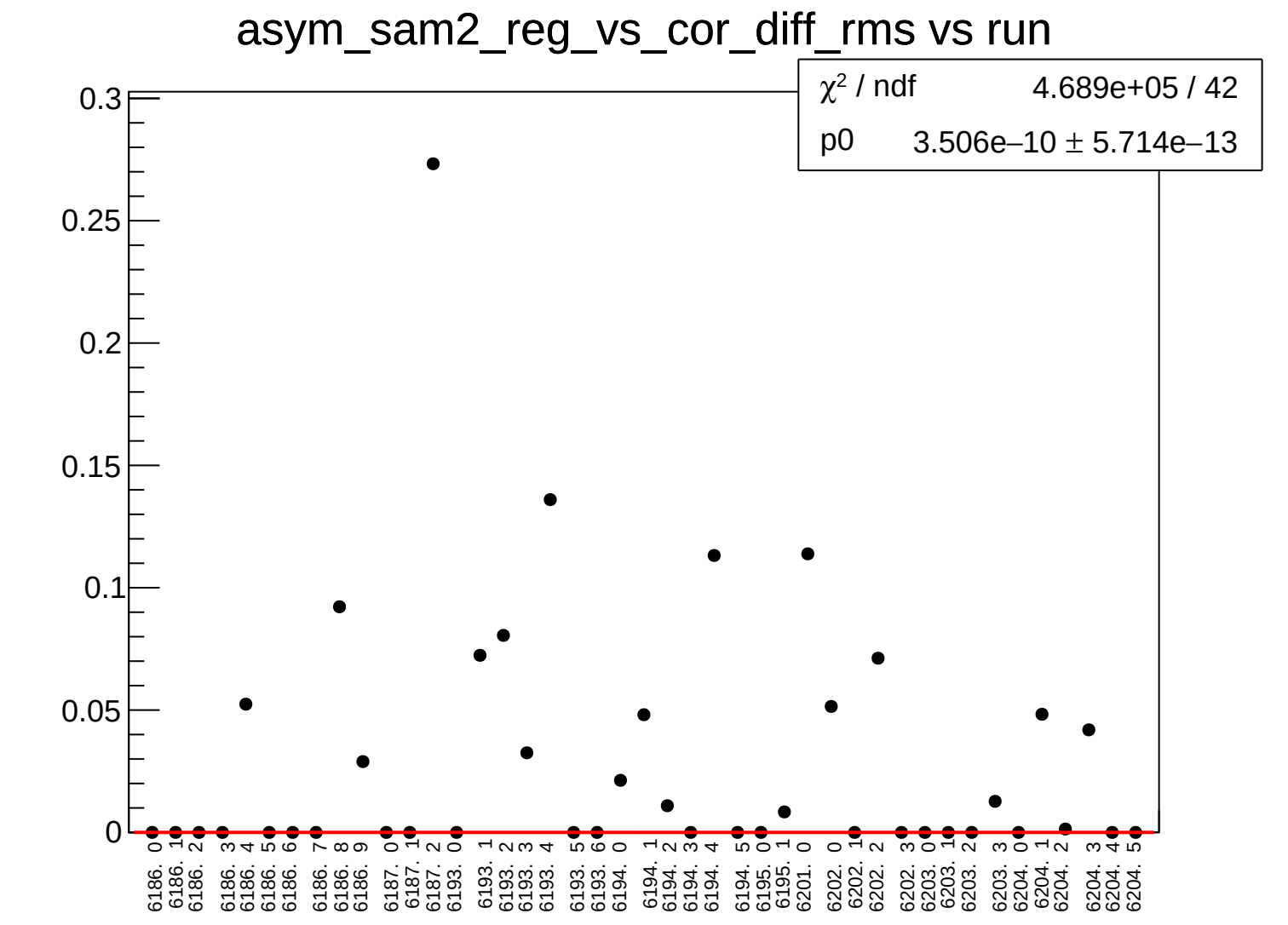
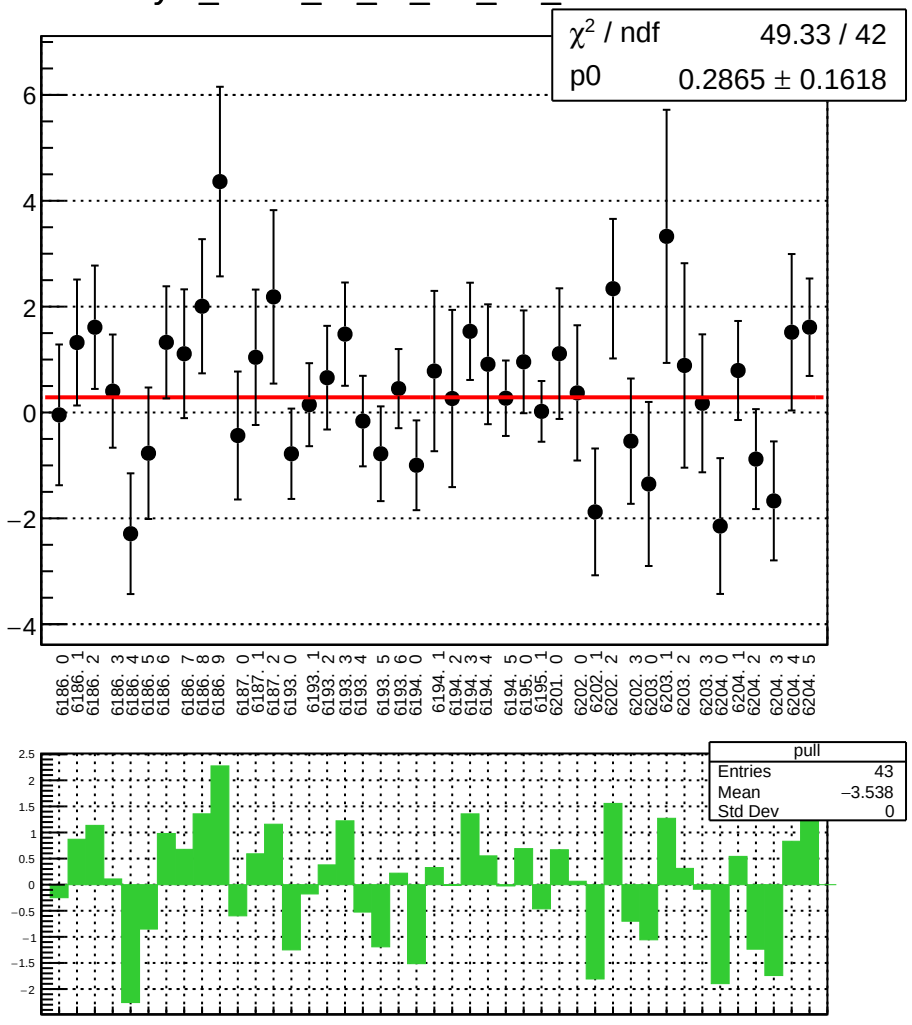

asym_sam2_mean vs run
×10^3
χ^2 / ndf 45.75 / 42
p0 4196 ± 7433
200
150
100
50
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 139.4
Std Dev 0
2
1
0
−1
−2
−3

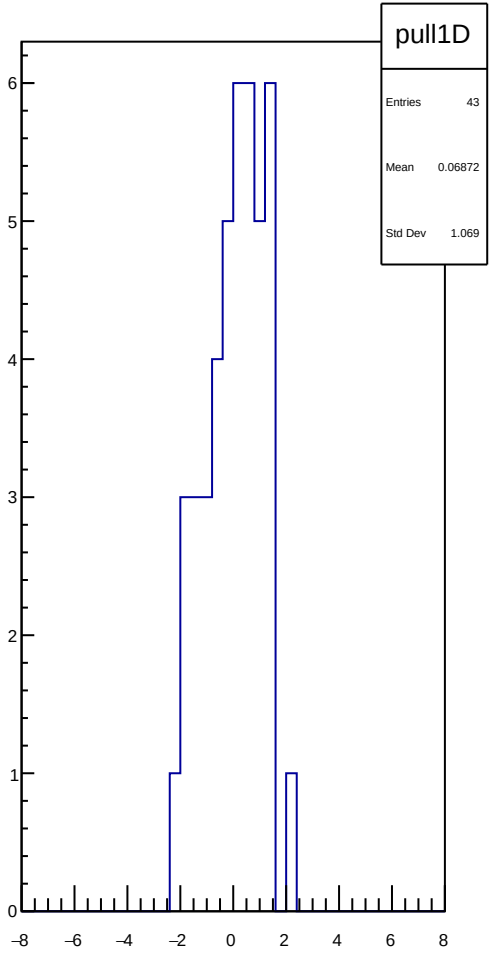

pull1D
Entries 43
Mean 0.007011
Std Dev 1.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

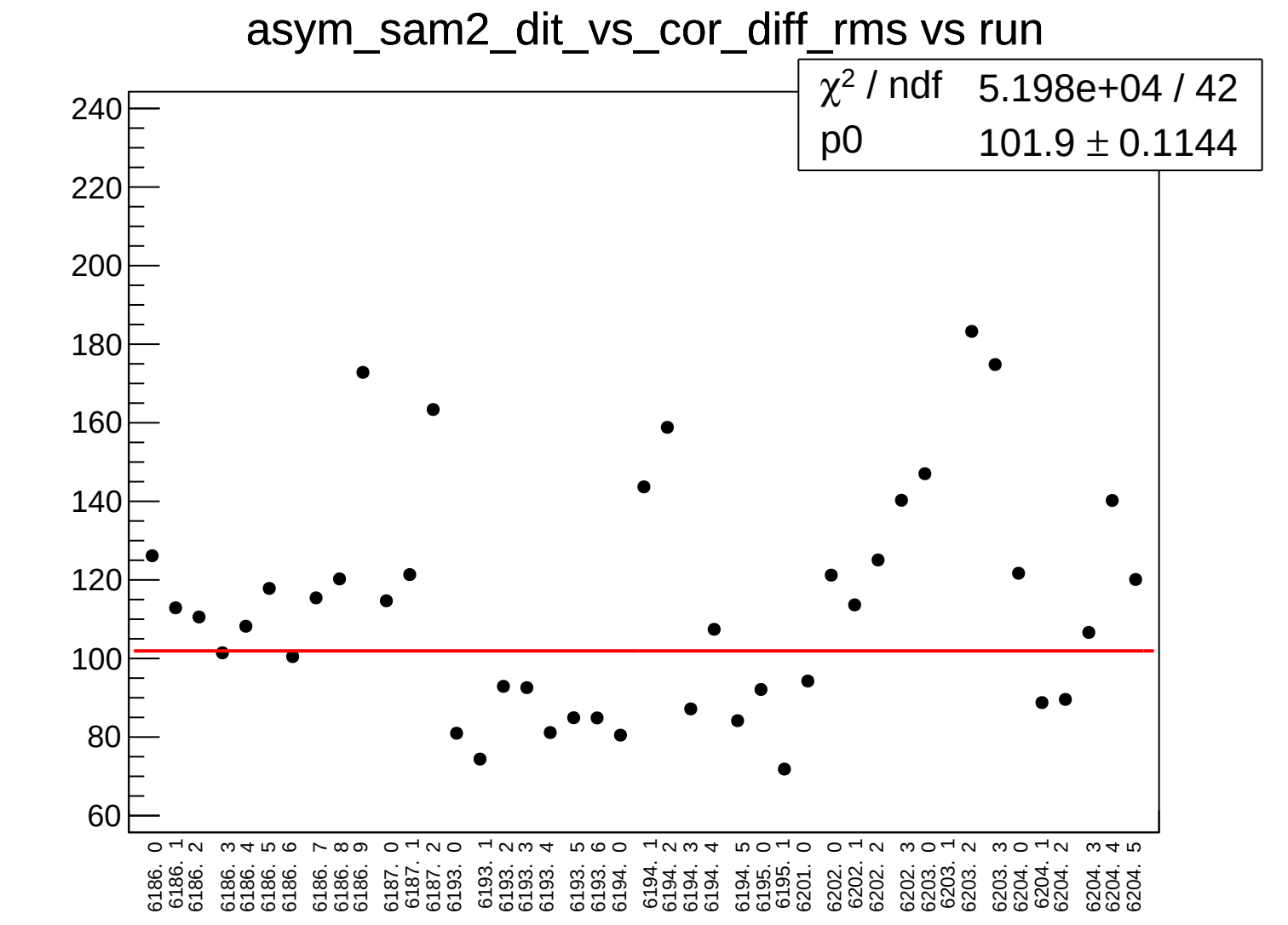

asym_sam2_rms vs run
χ² / ndf 3270 / 42
p0 4823 ± 5.256
6000
5800
5600
5400
5200
5000
4800
4600
4400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

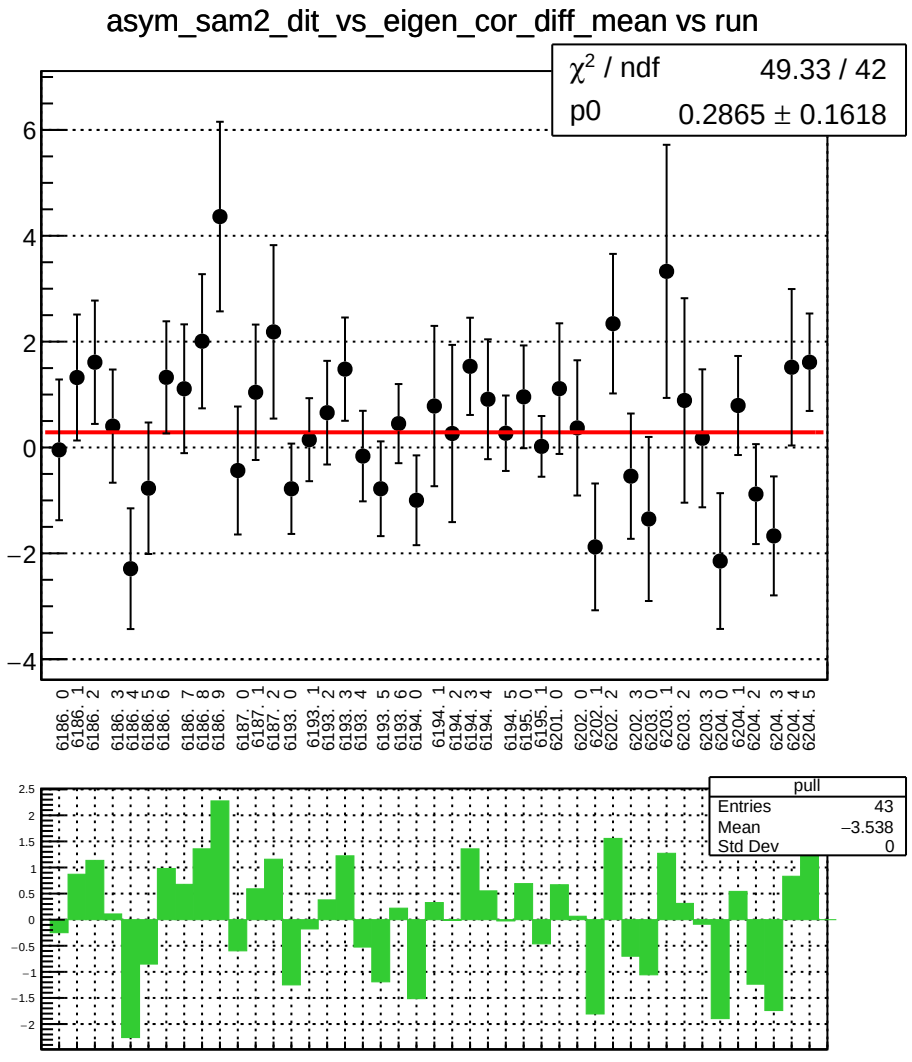

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 45.39 / 42
p0 −1.584e−13 ± 8.081e−13
0.004
0.002
0
−0.002
−0.004
−0.006
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 22.49
Std Dev 19.36
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.1731
Std Dev 1.013
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

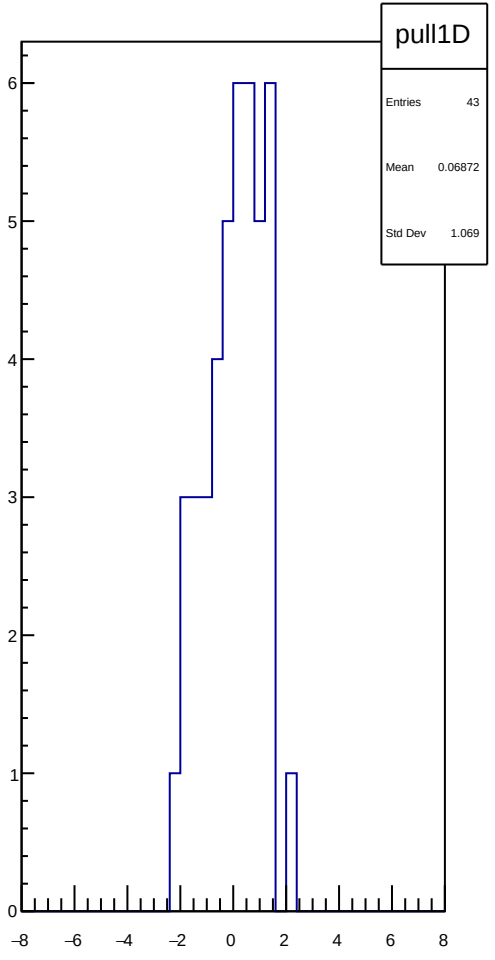

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 4.689e+05 / 42
p0 3.506e−10 ± 5.714e−13
0.3
0.25
0.2
0.15
0.1
0.05
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

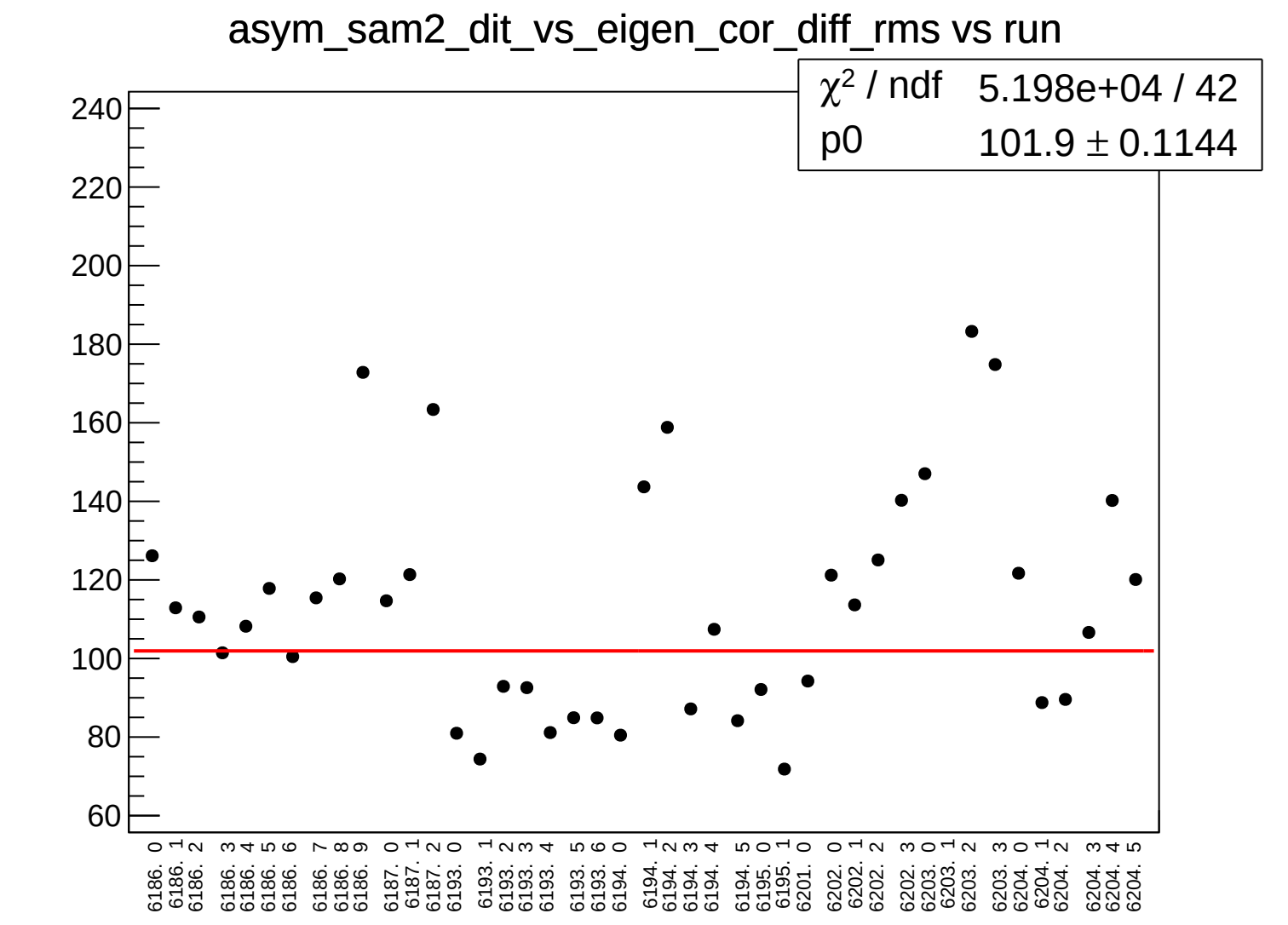

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 49.33 / 42
p0 0.2865 ± 0.1618
pull
Entries 43
Mean −3.538
Std Dev 0

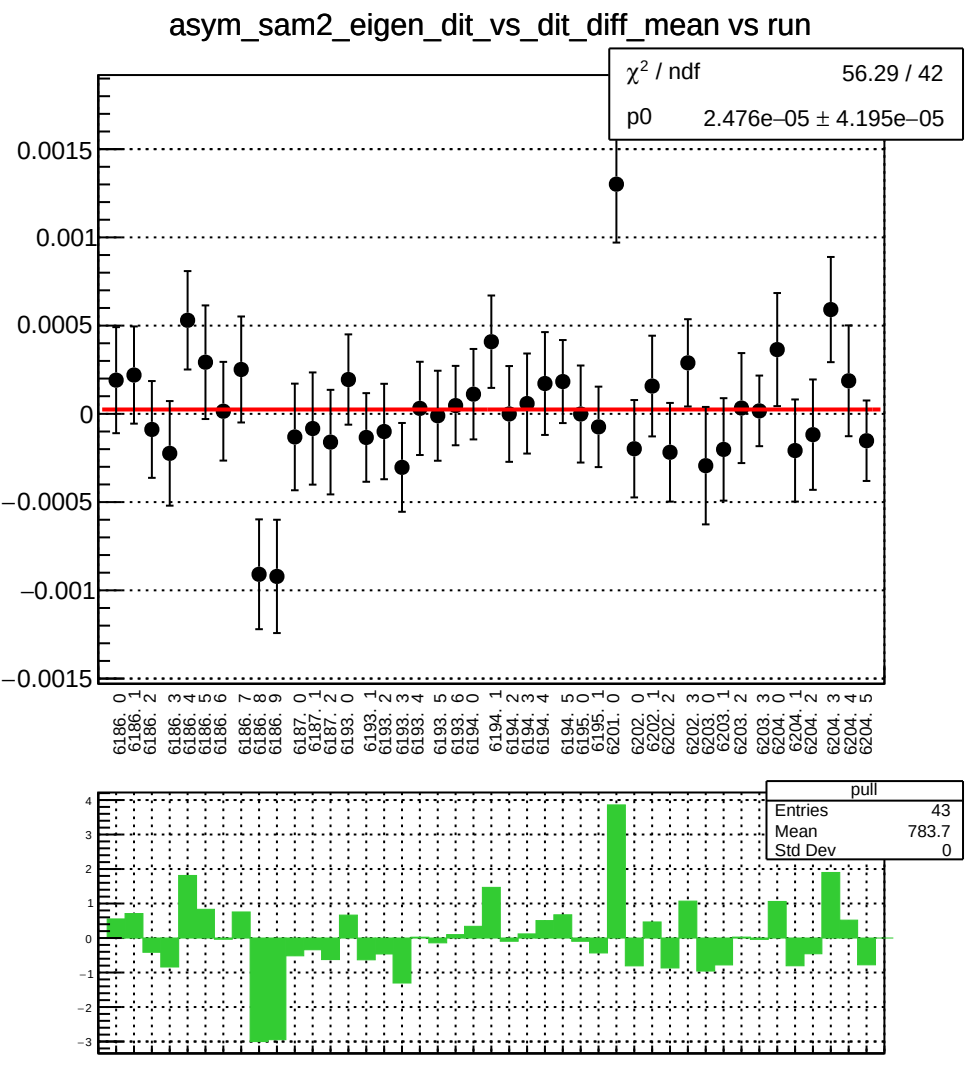

pull1D
Entries 43
Mean 0.06872
Std Dev 1.069

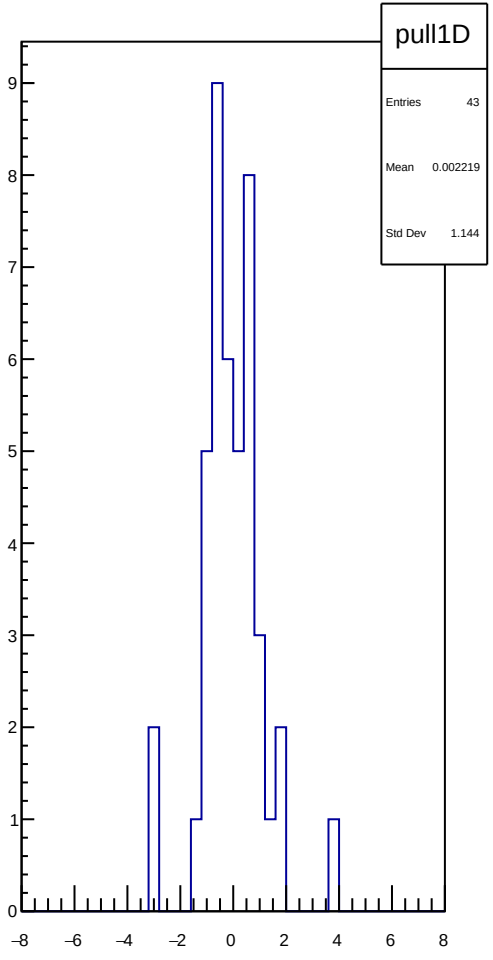

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 5.198e+04 / 42
p0 101.9 ± 0.1144
240
220
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

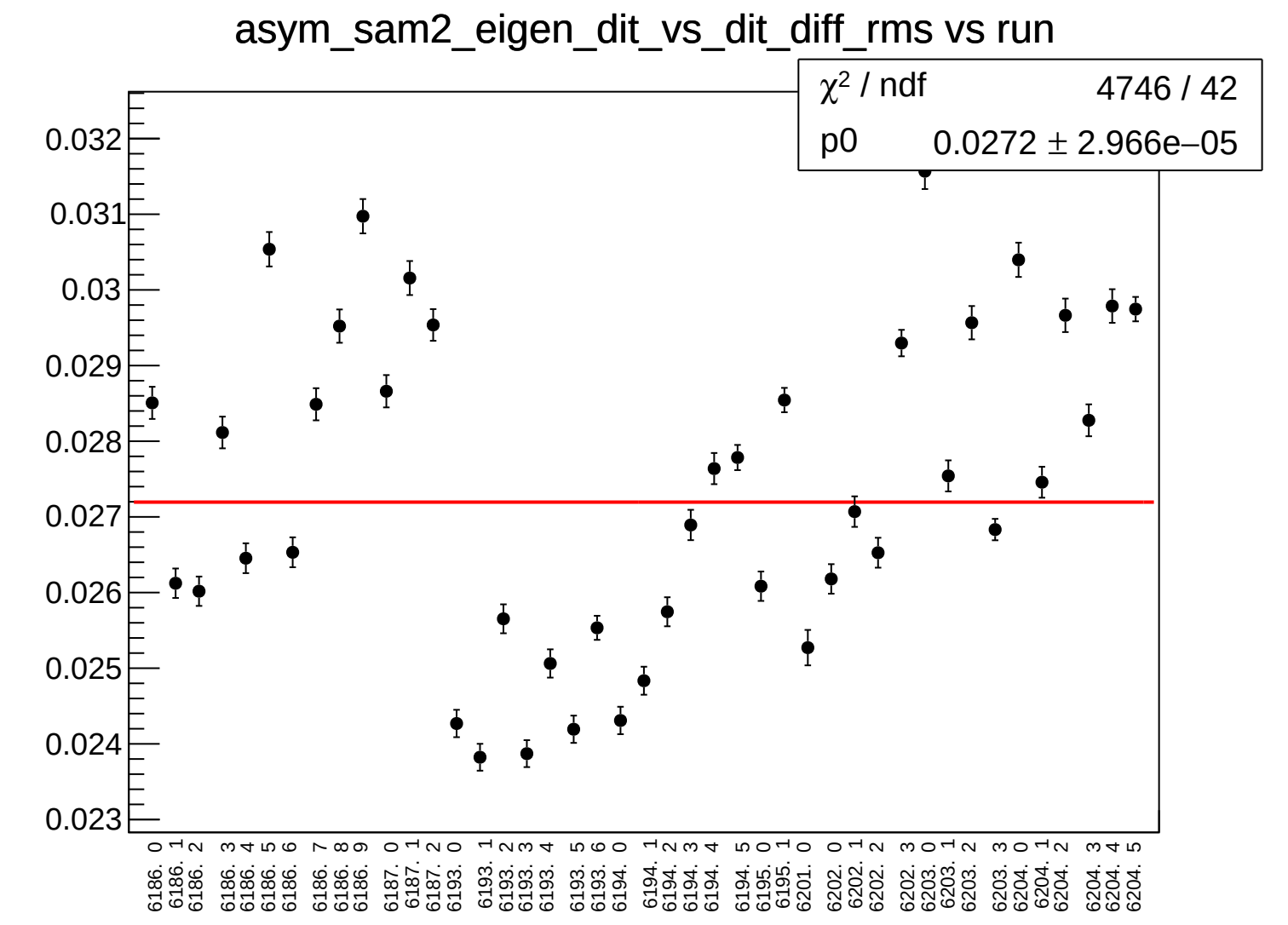

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.33 / 42
p0 0.2865 ± 0.1618
pull
Entries 43
Mean −3.538
Std Dev 0

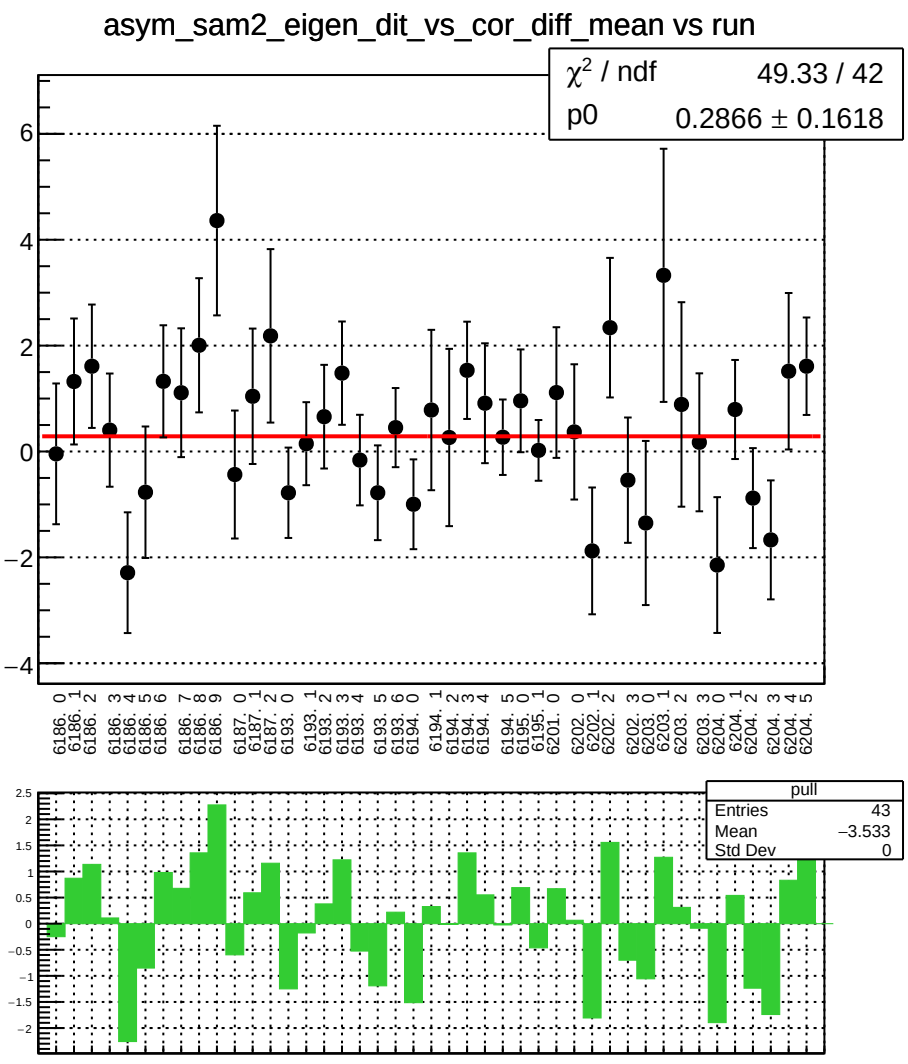

pull1D
Entries 43
Mean 0.06872
Std Dev 1.069

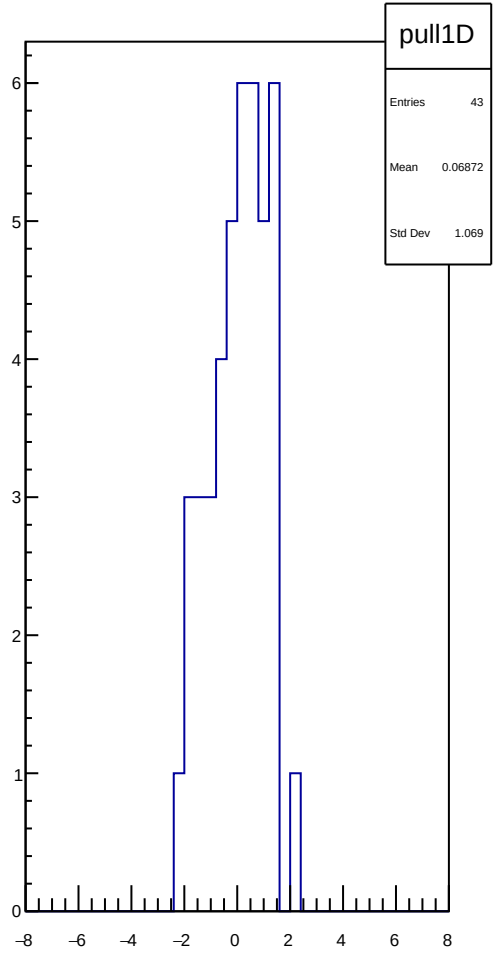

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.198e+04 / 42
p0 101.9 ± 0.1144
240
220
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

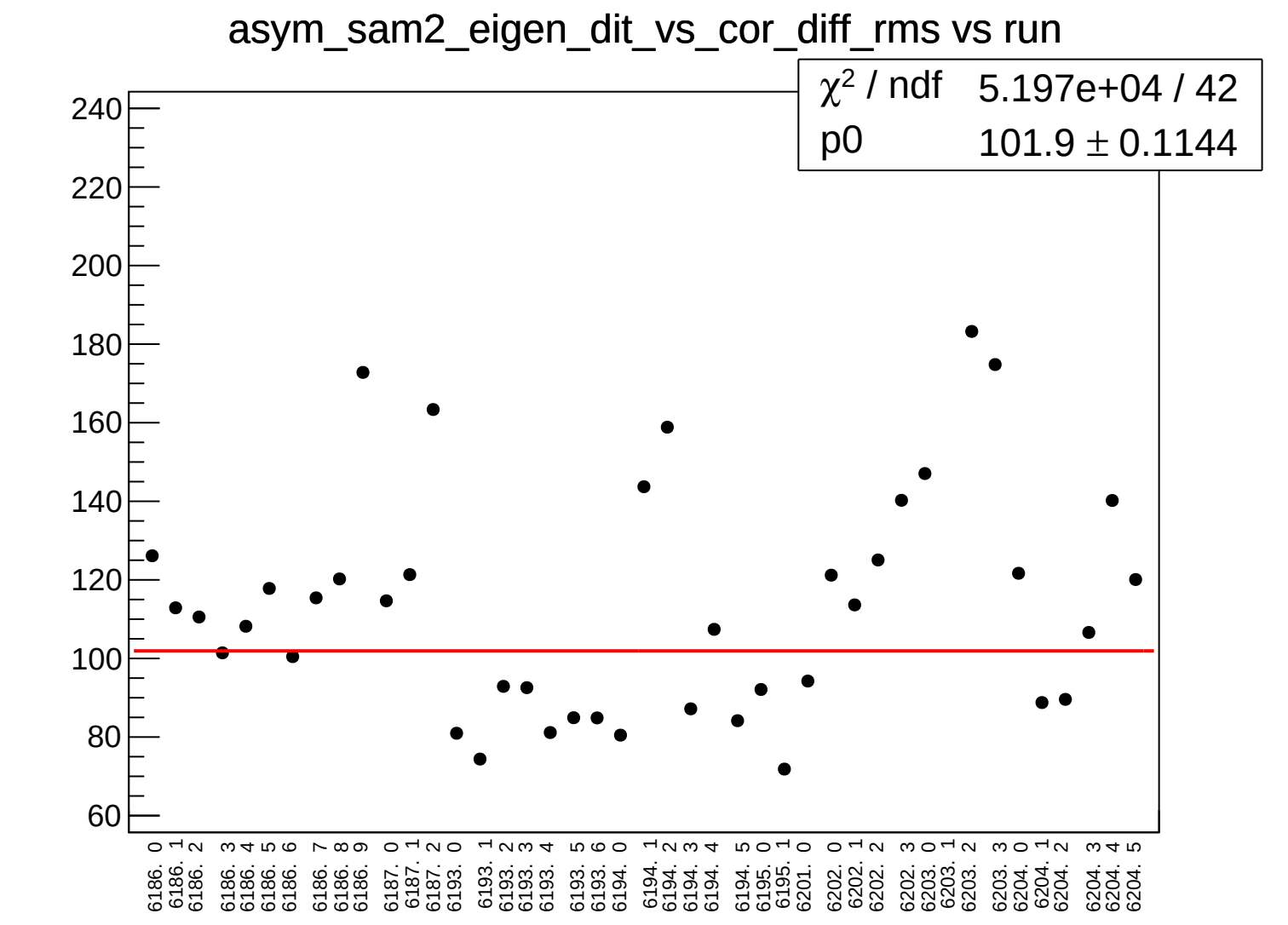

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 56.29 / 42
p0 2.476e−05 ± 4.195e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 783.7
Std Dev 0
4
3
2
1
0
−1
−2
−3

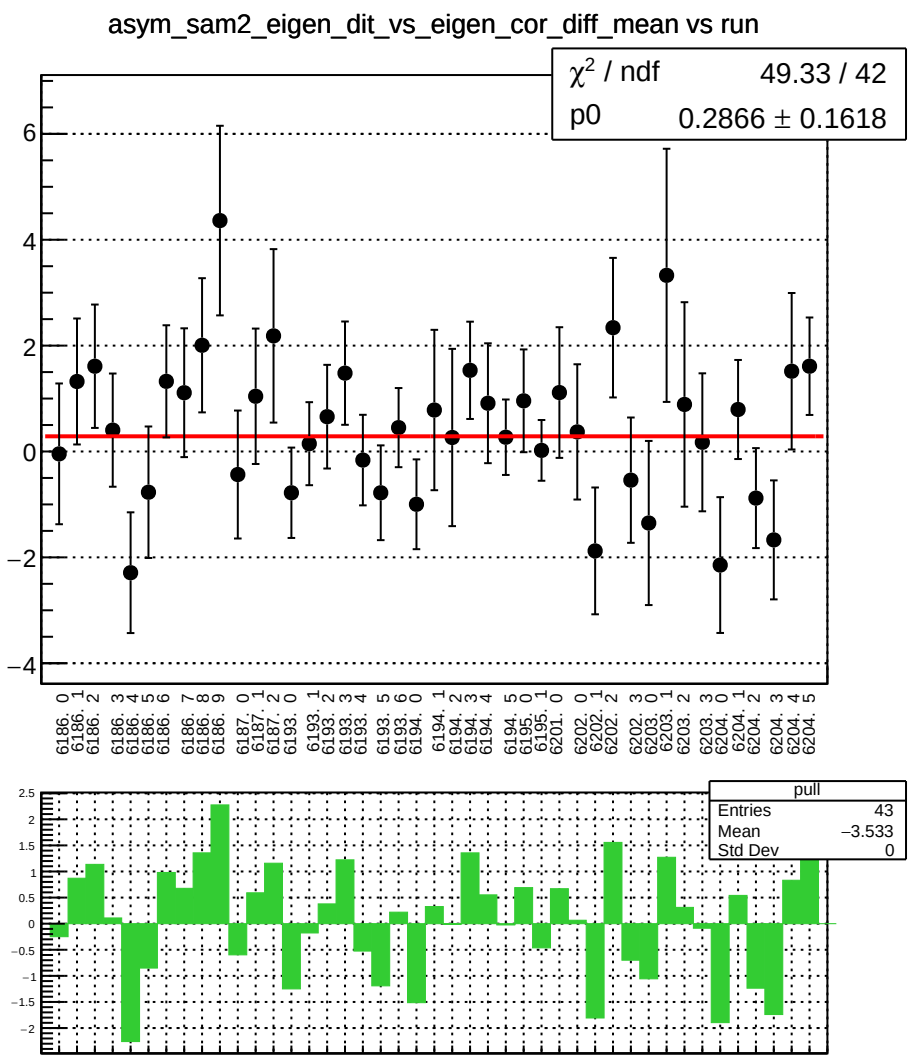

pull1D
Entries 43
Mean 0.002219
Std Dev 1.144
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

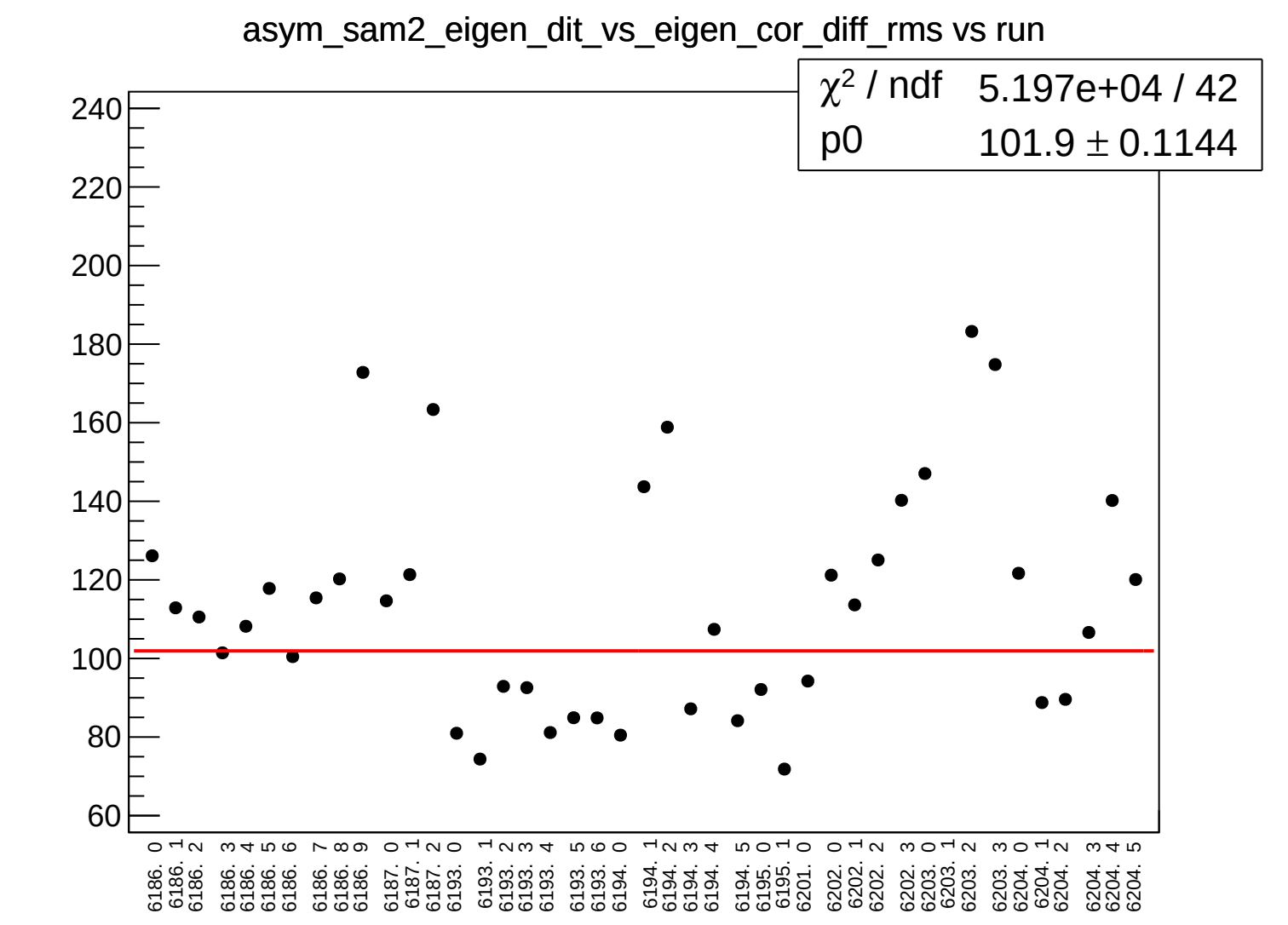

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4746 / 42
p0 0.0272 ± 2.966e−05
0.032
0.031
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

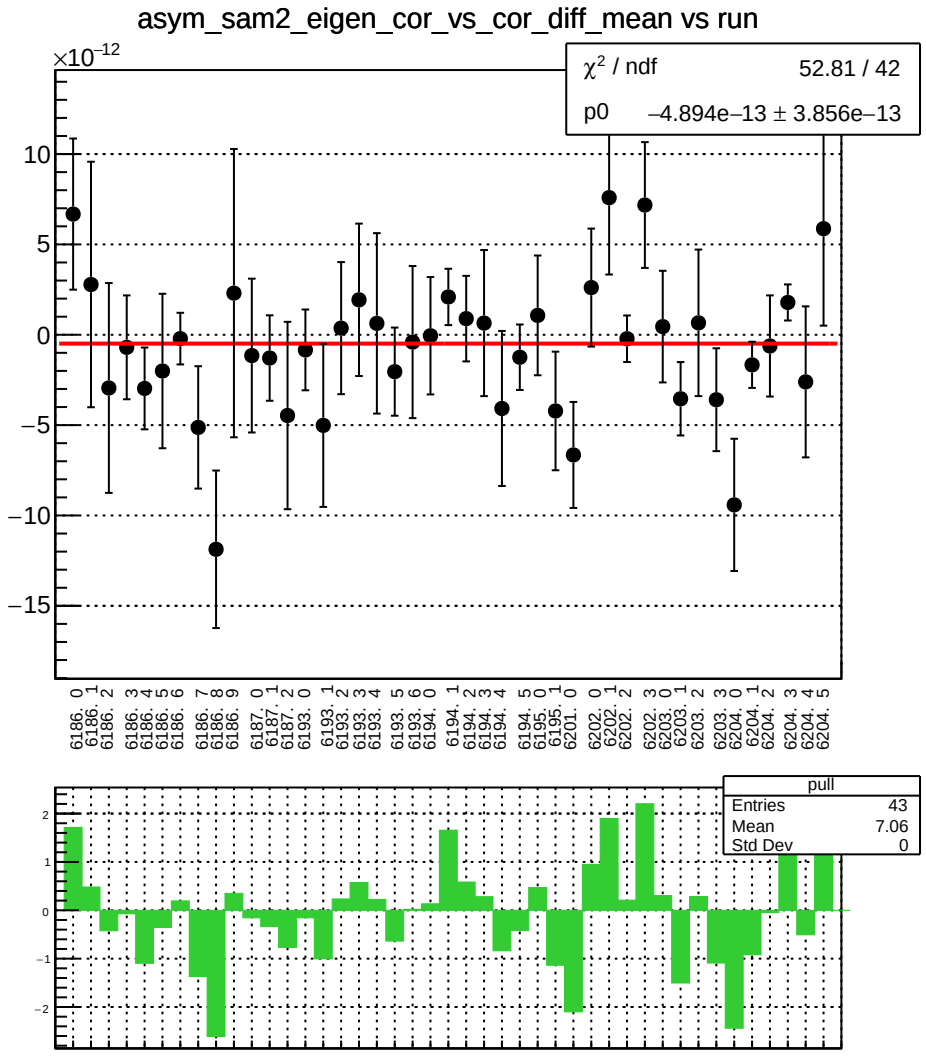

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.33 / 42
p0 0.2866 ± 0.1618
6
4
2
0
−2
−4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3.533
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

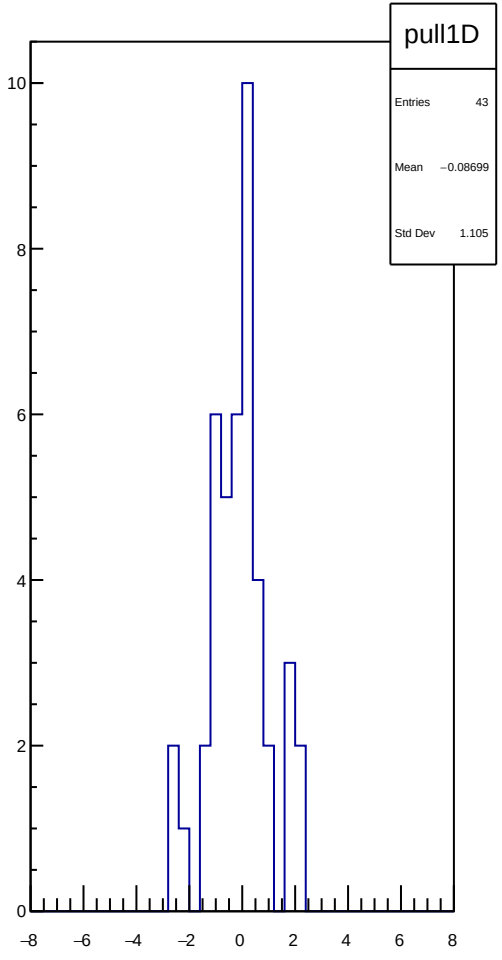

pull1D
Entries 43
Mean 0.06872
Std Dev 1.069
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

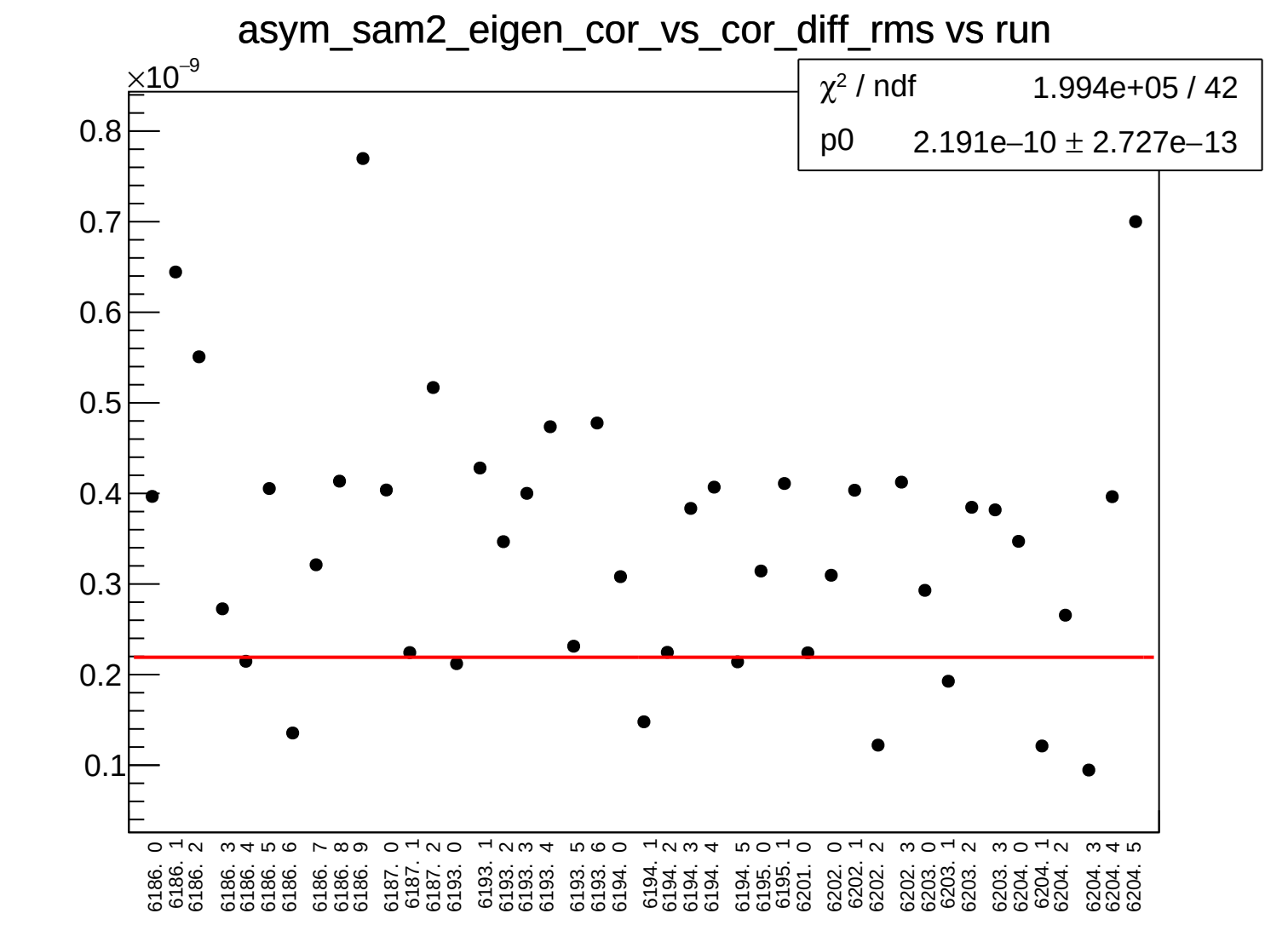

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.197e+04 / 42
p0 101.9 ± 0.1144
240
220
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

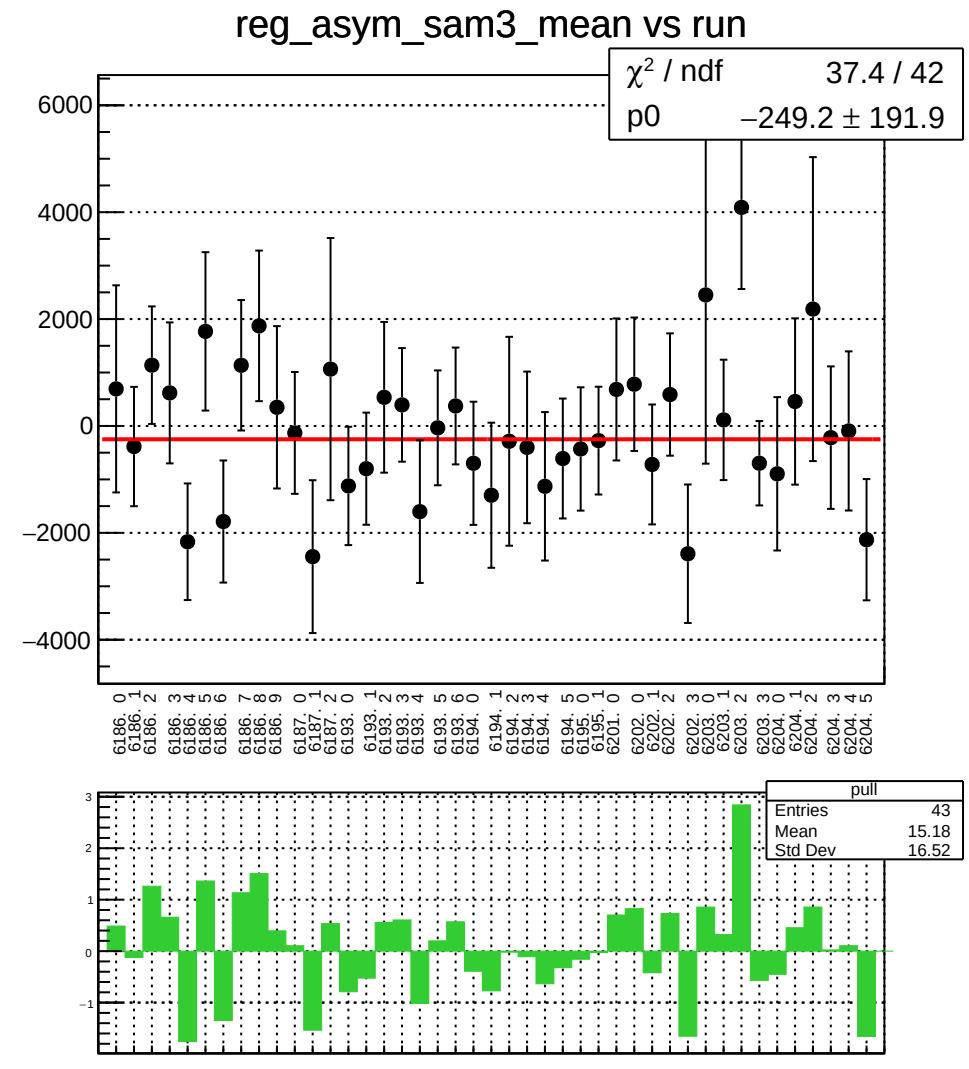

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.33 / 42
p0 0.2866 ± 0.1618
6
4
2
0
−2
−4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3.533
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.06872
Std Dev 1.069
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

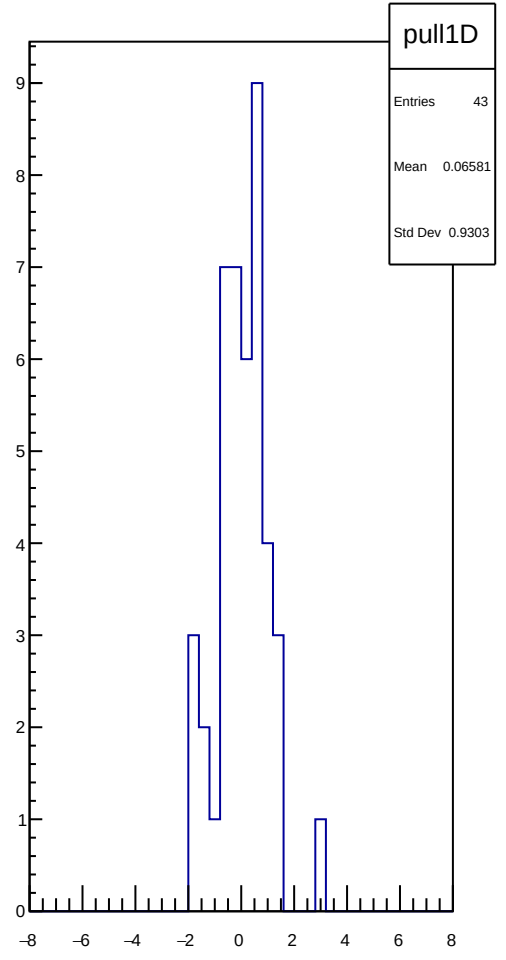

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.197e+04 / 42
p0 101.9 ± 0.1144
240
220
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

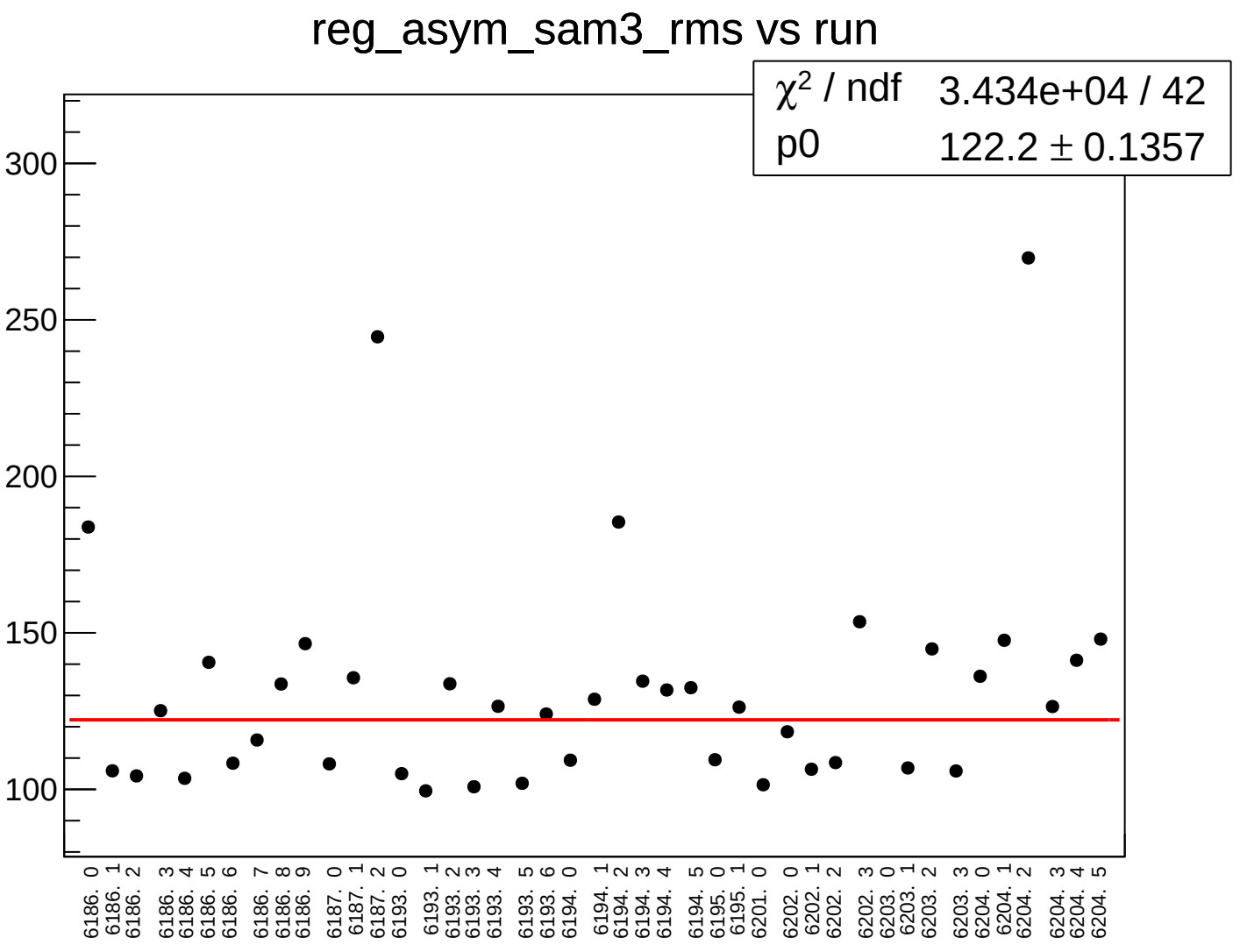

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 52.81 / 42
p0 −4.894e−13 ± 3.856e−13
10
5
0
−5
−10
−15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 7.06
Std Dev 0
2
1
0
−1
−2

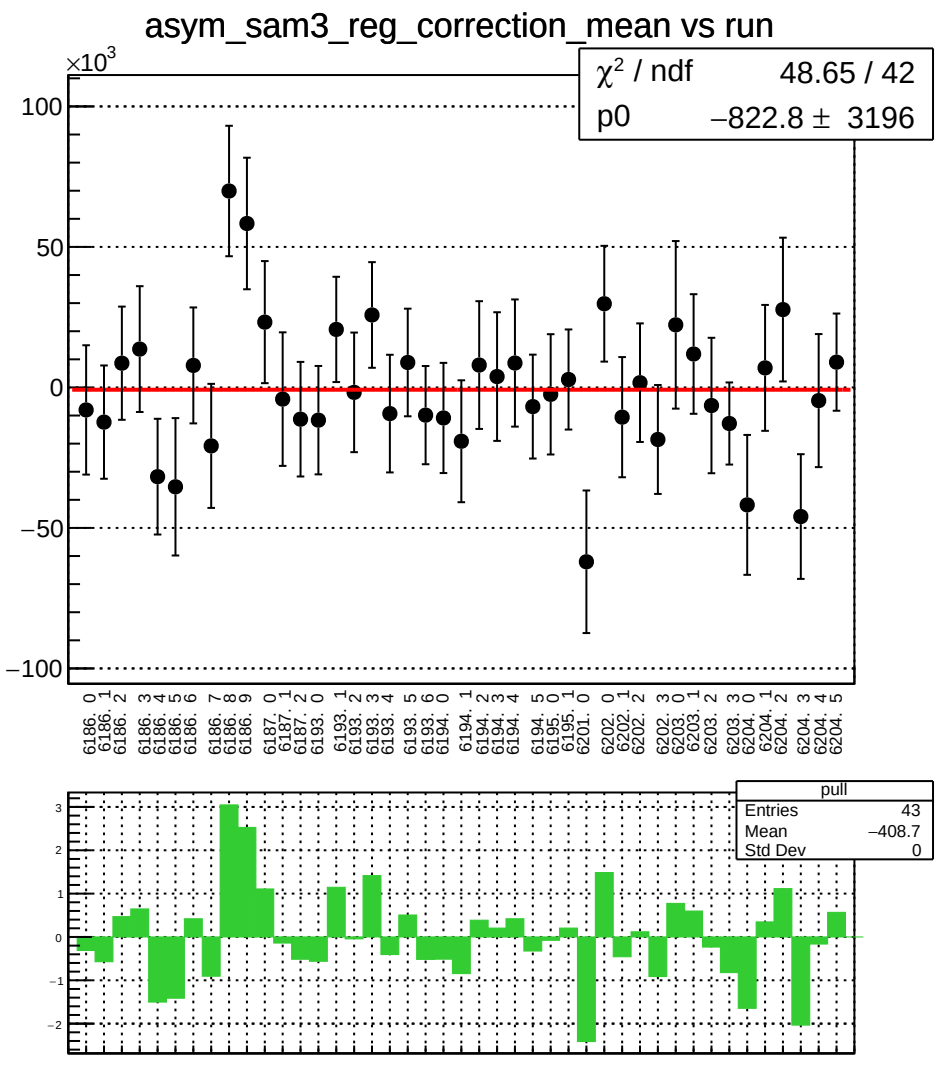

pull1D
Entries 43
Mean −0.08699
Std Dev 1.105
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

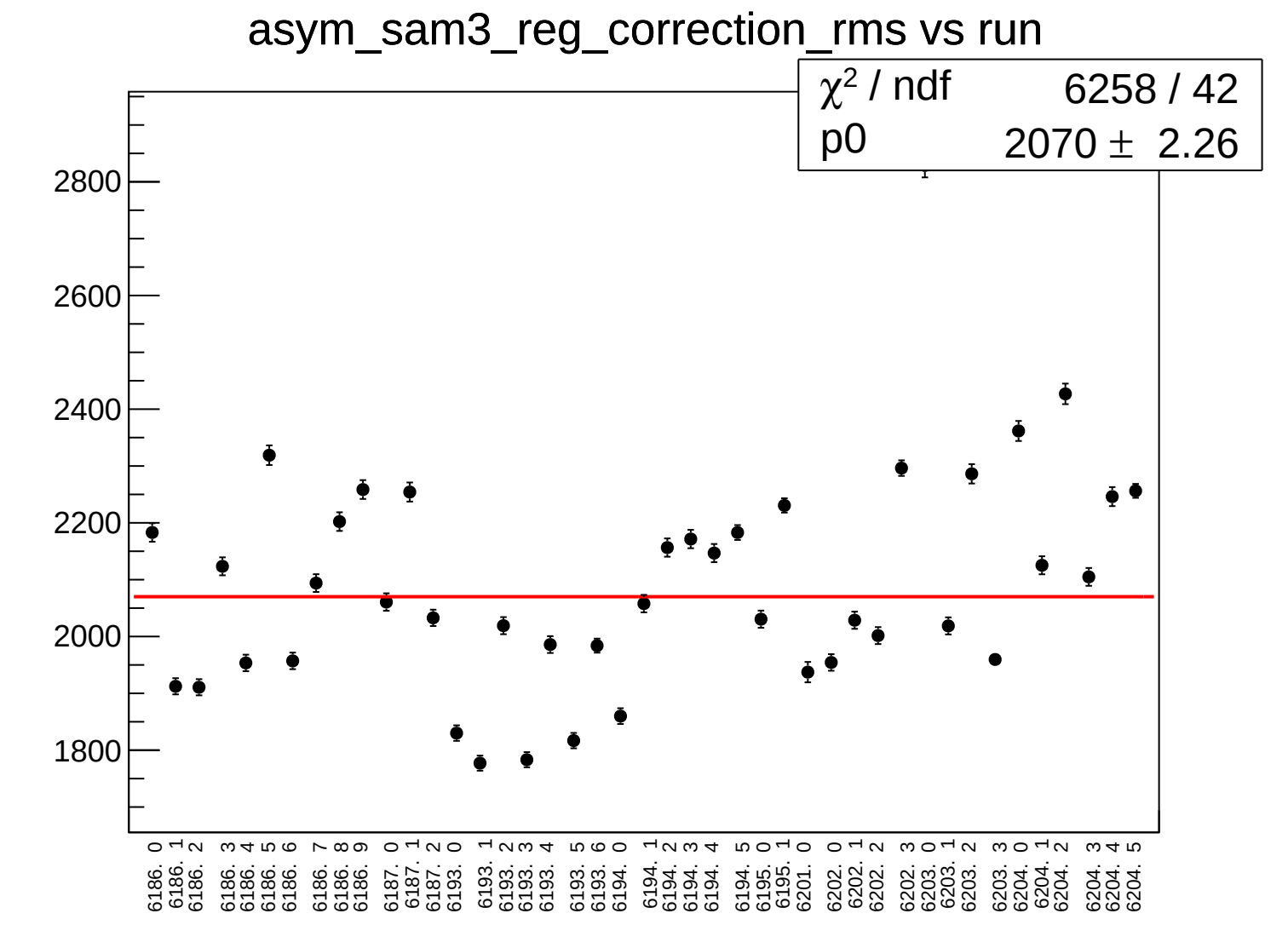

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.994e+05 / 42
p0 2.191e−10 ± 2.727e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

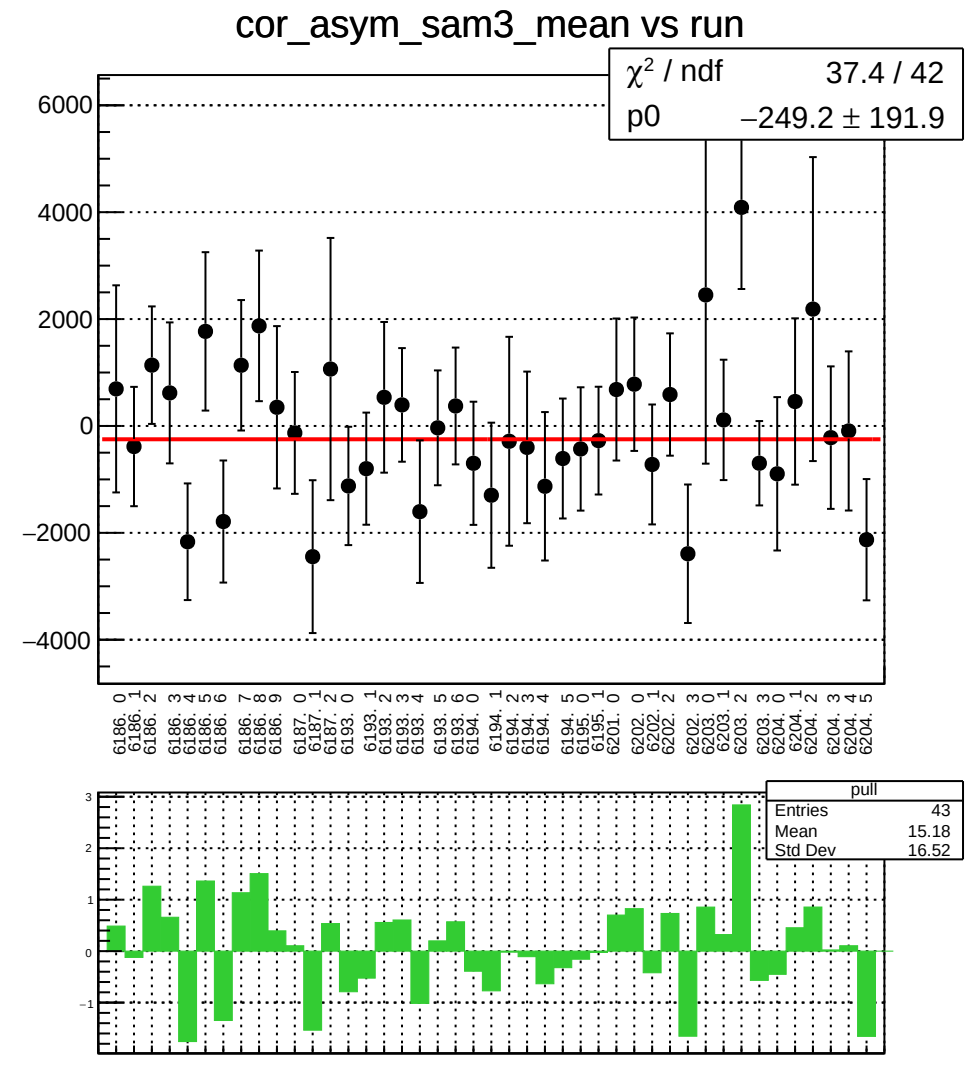

reg_asym_sam3_mean vs run
χ² / ndf 37.4 / 42
p0 −249.2 ± 191.9
6000
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 15.18
Std Dev 16.52
3
2
1
0
−1

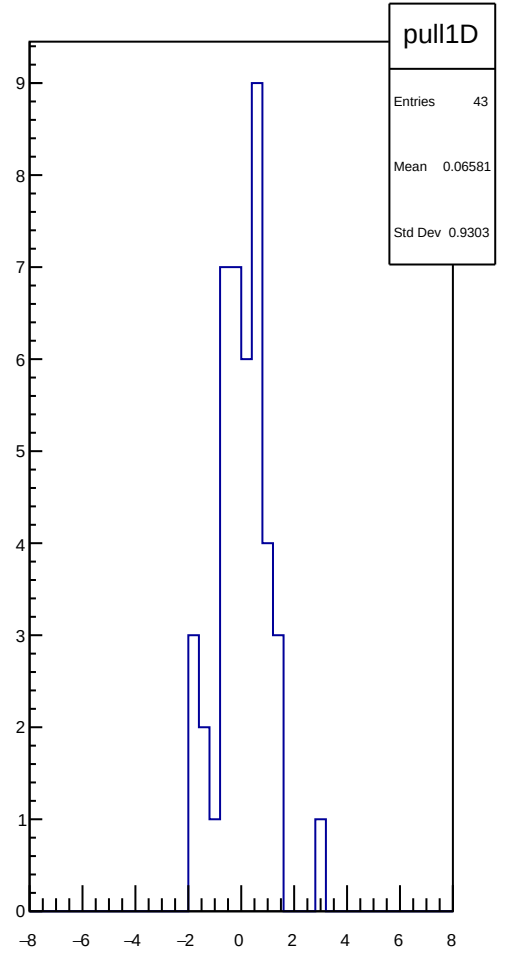

pull1D
Entries 43
Mean 0.06581
Std Dev 0.9303
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

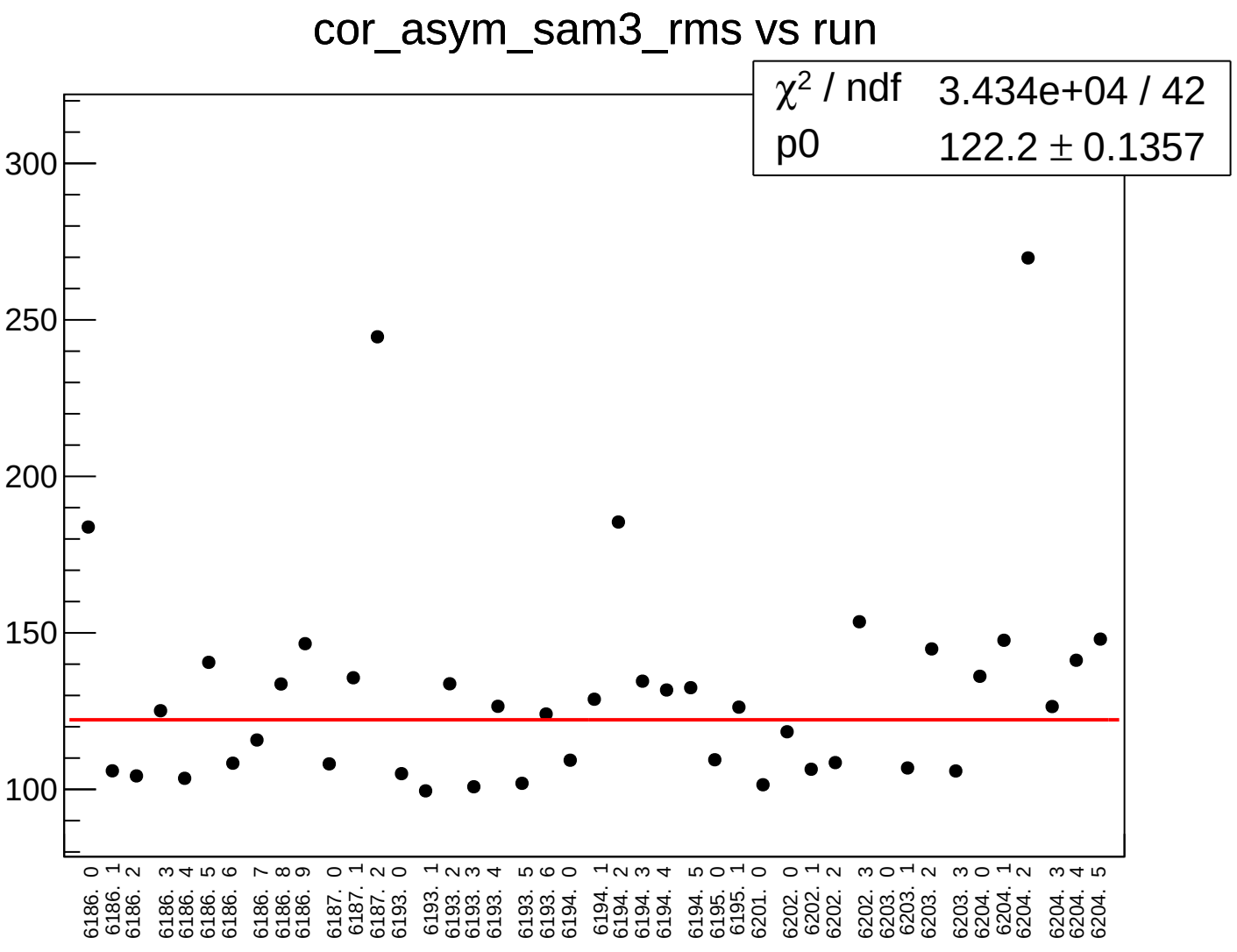

reg_asym_sam3_rms vs run
χ² / ndf 3.434e+04 / 42
p0 122.2 ± 0.1357
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

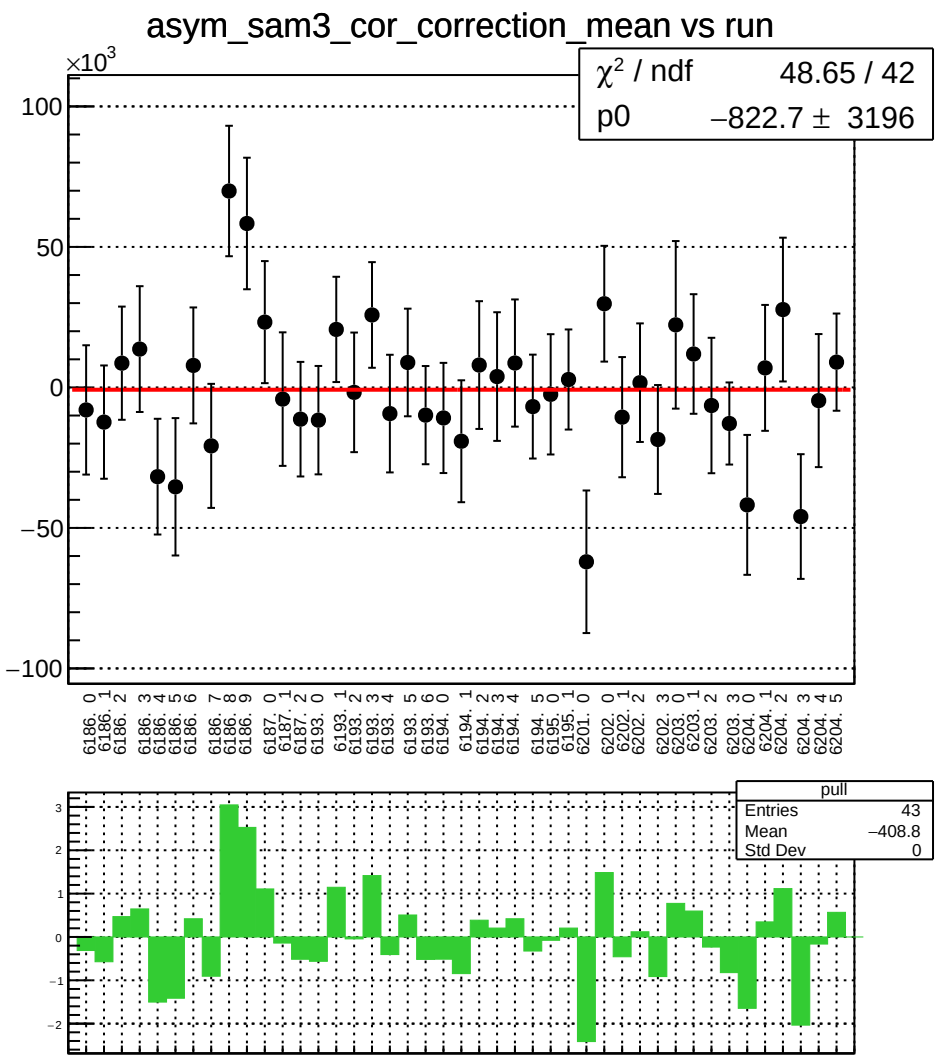

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 48.65 / 42
p0 −822.8 ± 3196
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −408.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.00422
Std Dev 1.064
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

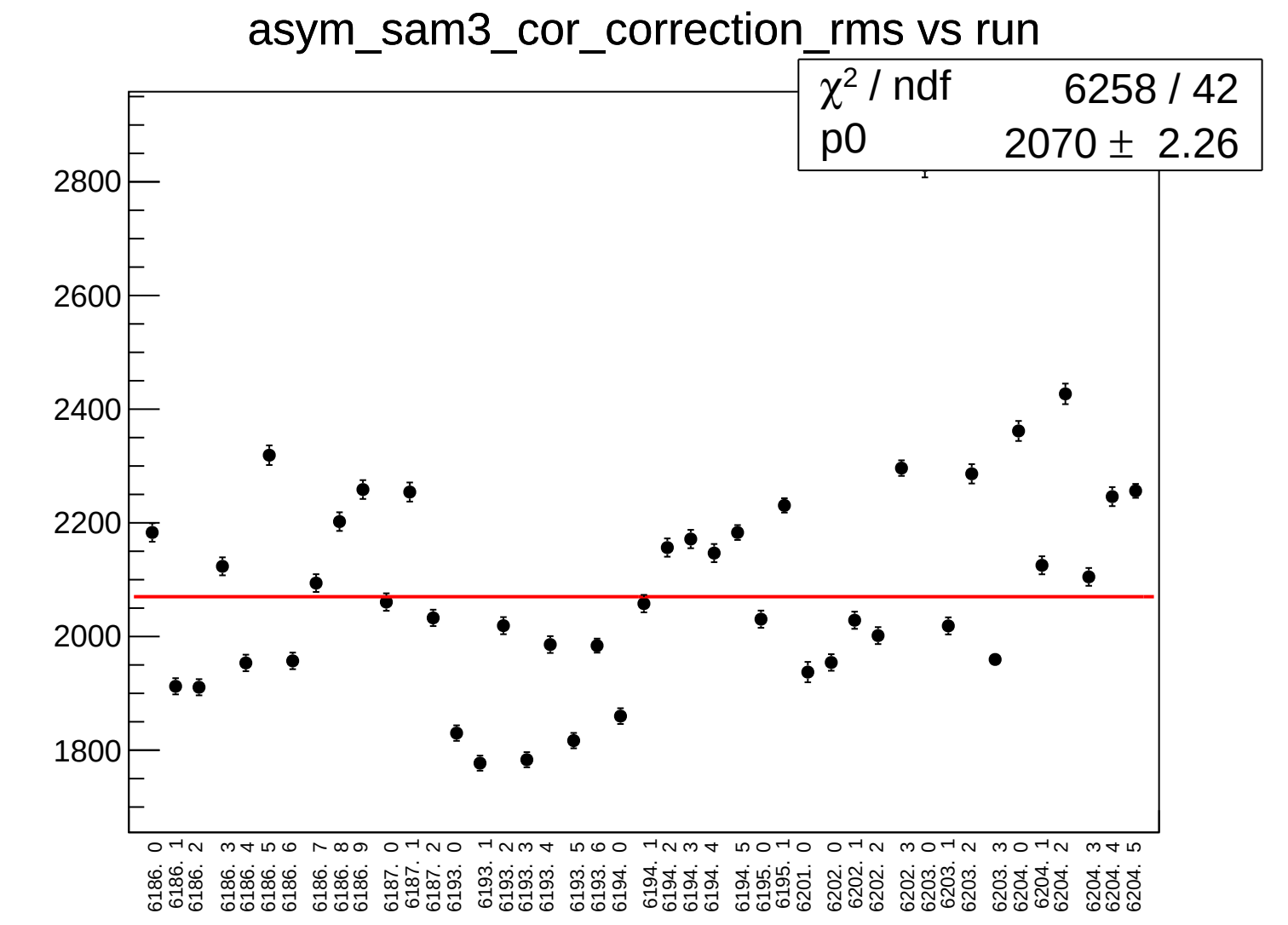

asym_sam3_reg_correction_rms vs run
χ² / ndf 6258 / 42
p0 2070 ± 2.26
2800
2600
2400
2200
2000
1800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

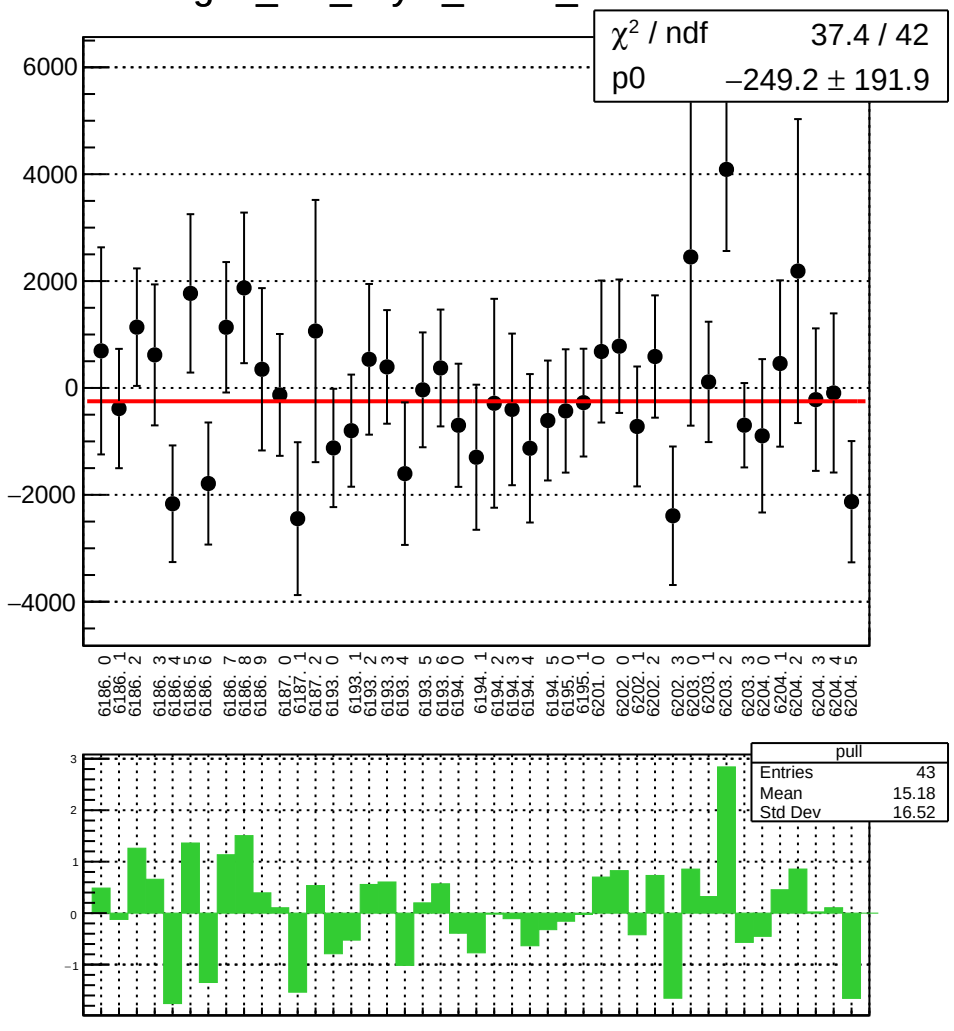

cor_asym_sam3_mean vs run
χ² / ndf 37.4 / 42
p0 −249.2 ± 191.9
6000
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 15.18
Std Dev 16.52
3
2
1
0
−1

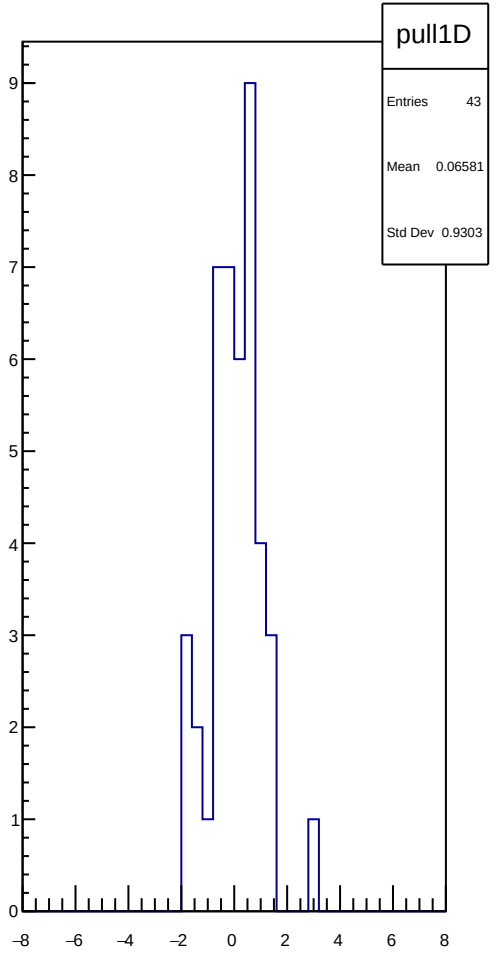

pull1D
Entries 43
Mean 0.06581
Std Dev 0.9303
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

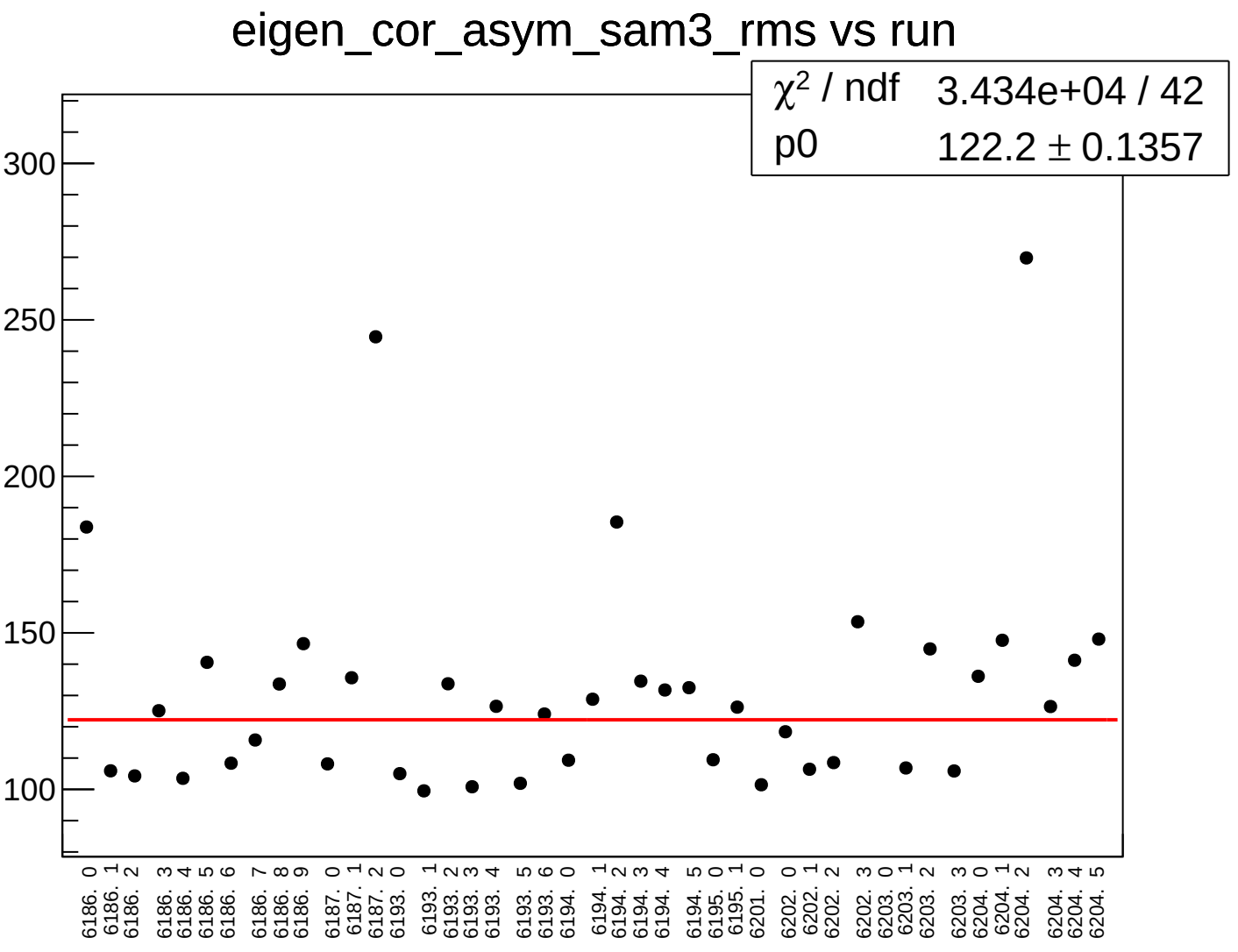

cor_asym_sam3_rms vs run
χ² / ndf 3.434e+04 / 42
p0 122.2 ± 0.1357
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

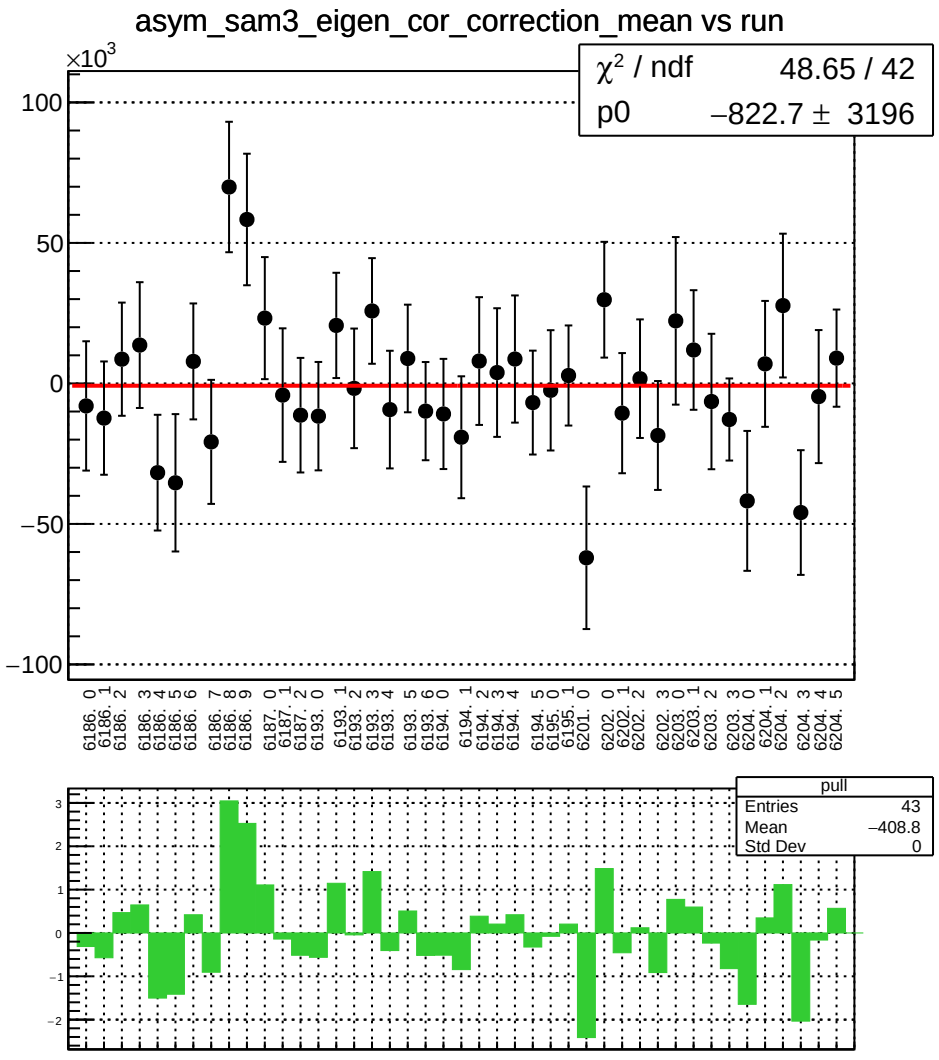

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 48.65 / 42
p0 −822.7 ± 3196
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −408.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.004219
Std Dev 1.064
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

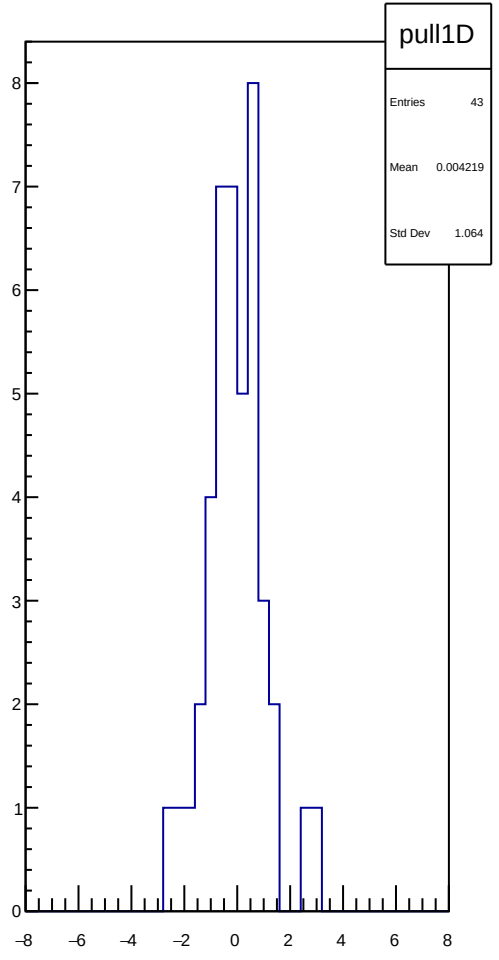

asym_sam3_cor_correction_rms vs run
χ² / ndf 6258 / 42
p0 2070 ± 2.26
2800
2600
2400
2200
2000
1800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

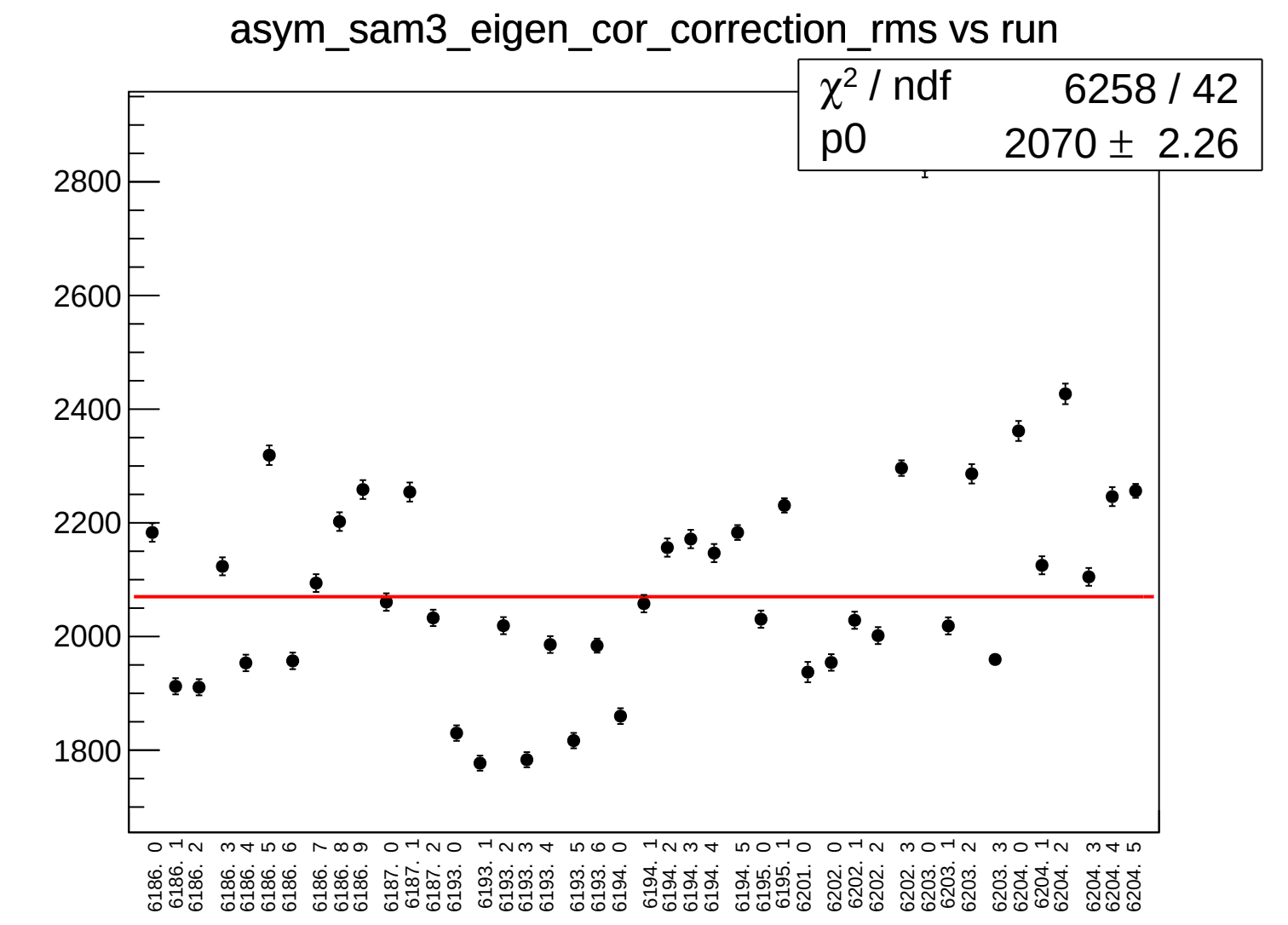

eigen_cor_asym_sam3_mean vs run
χ² / ndf 37.4 / 42
p0 −249.2 ± 191.9
6000
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 15.18
Std Dev 16.52
3
2
1
0
−1

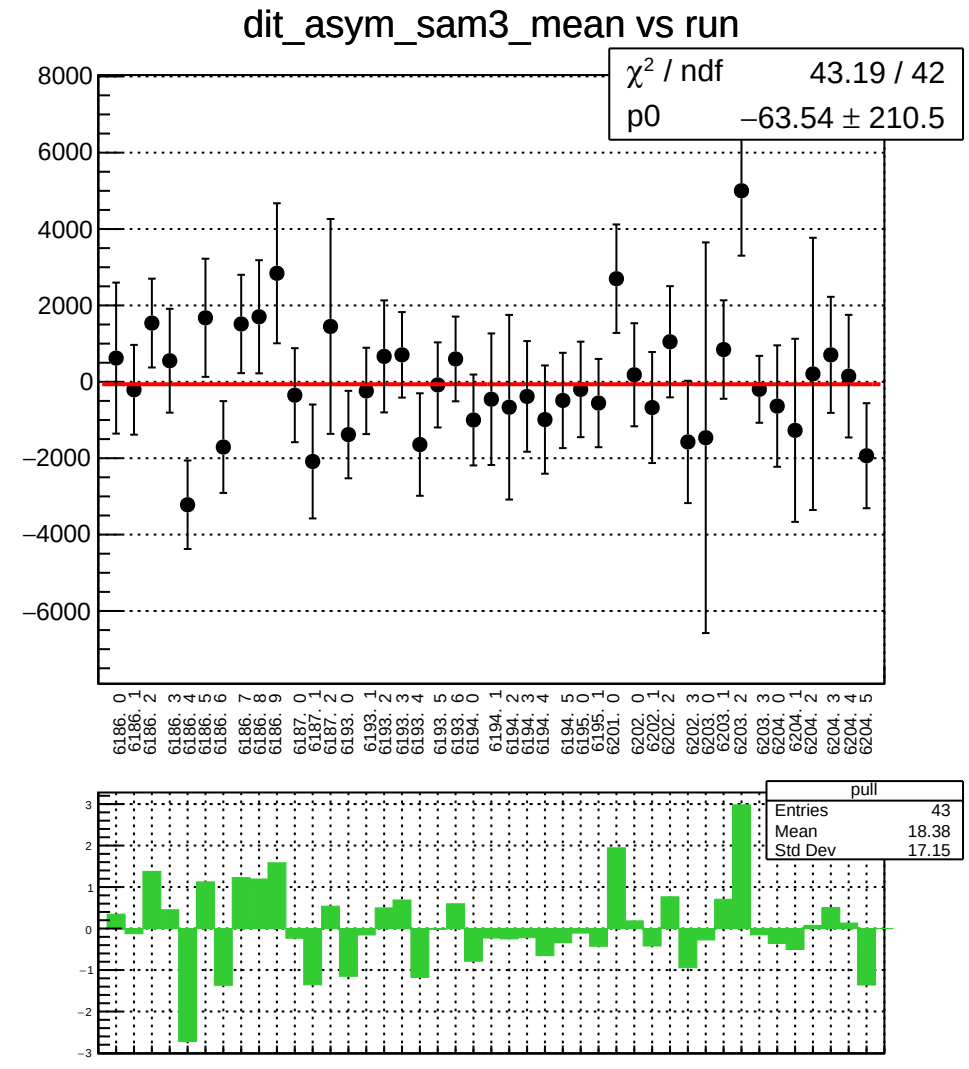

pull1D
Entries 43
Mean 0.06581
Std Dev 0.9303
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

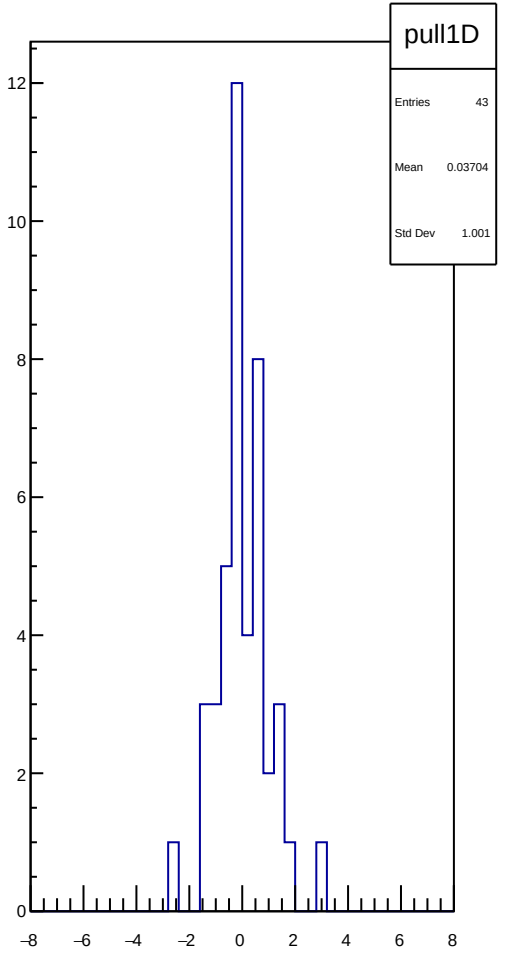

eigen_cor_asym_sam3_rms vs run
χ² / ndf 3.434e+04 / 42
p0 122.2 ± 0.1357
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

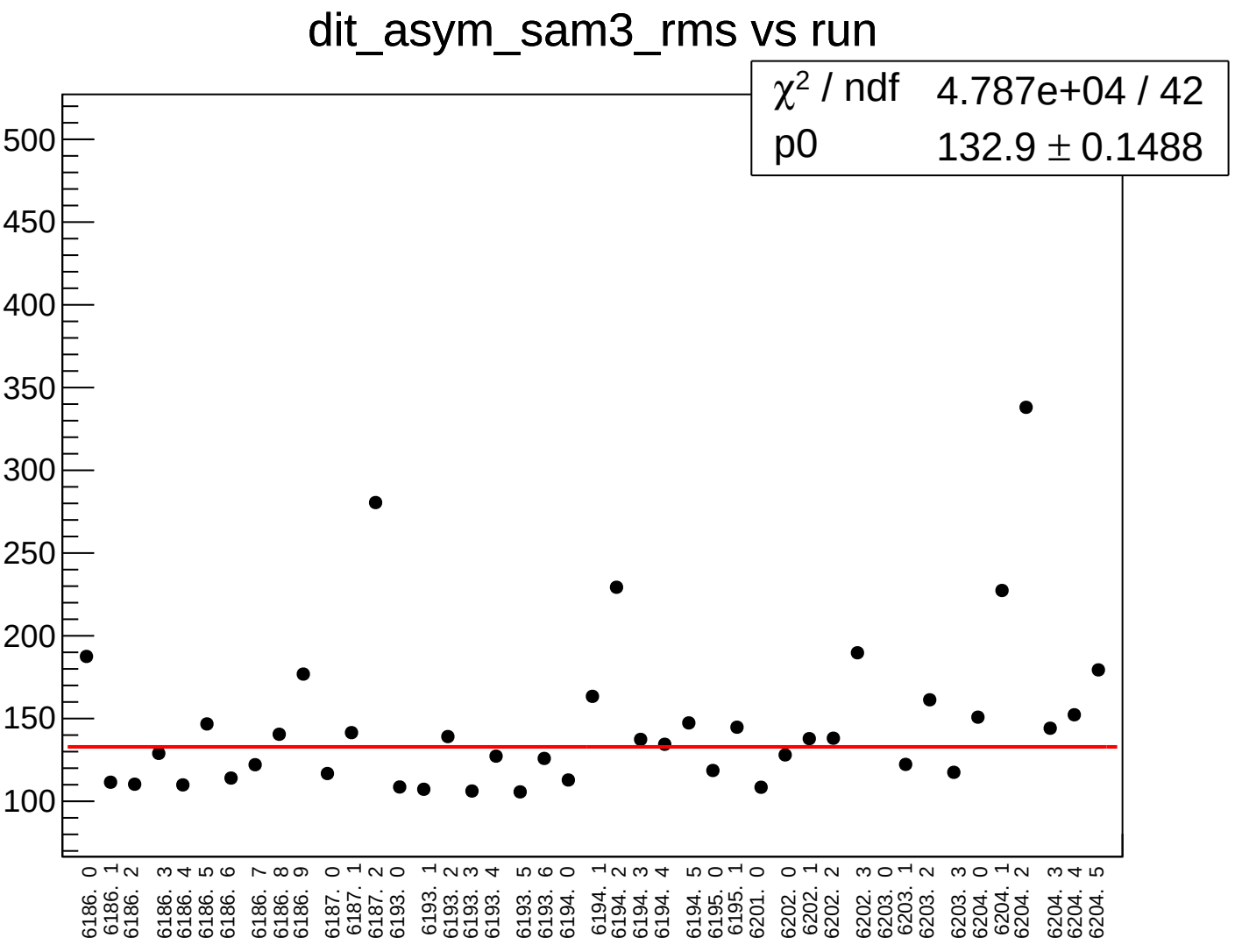

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 48.65 / 42
p0 −822.7 ± 3196
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −408.8
Std Dev 0
3
2
1
0
−1
−2

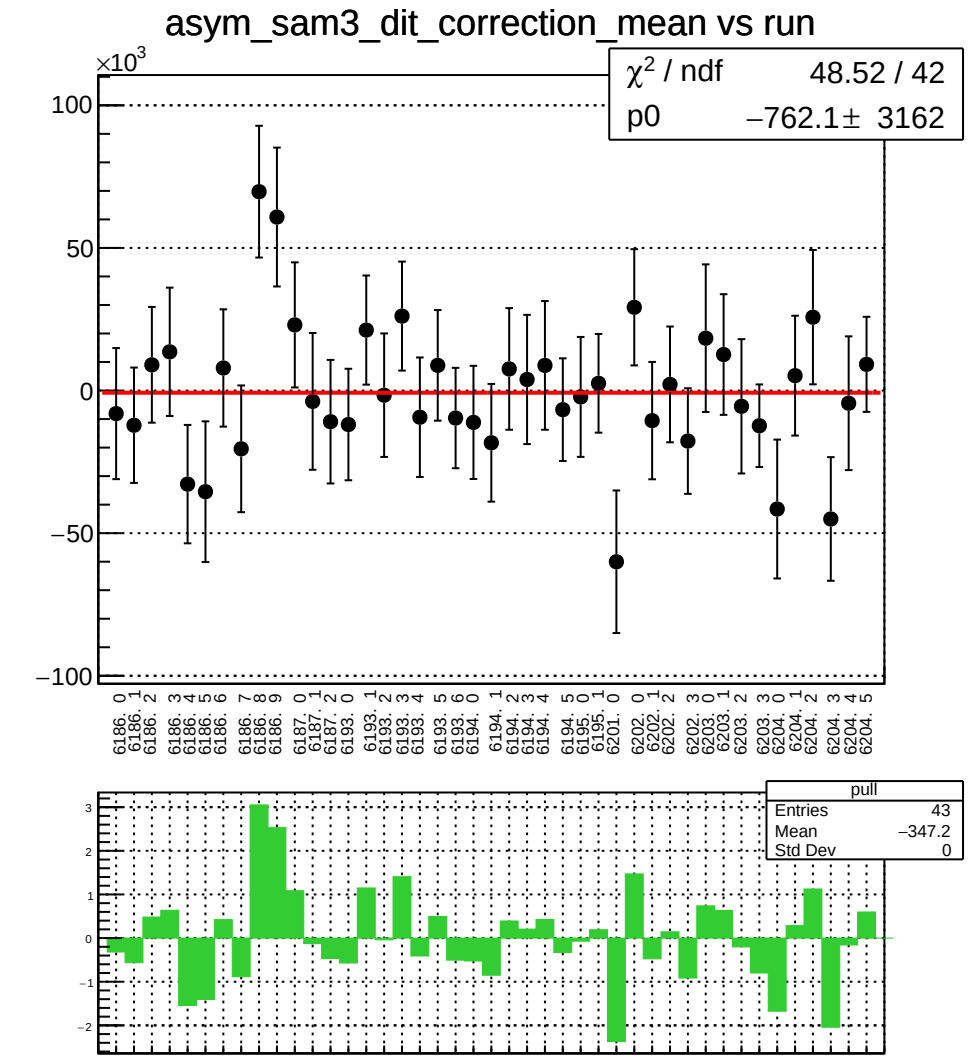

pull1D
Entries 43
Mean 0.004219
Std Dev 1.064
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

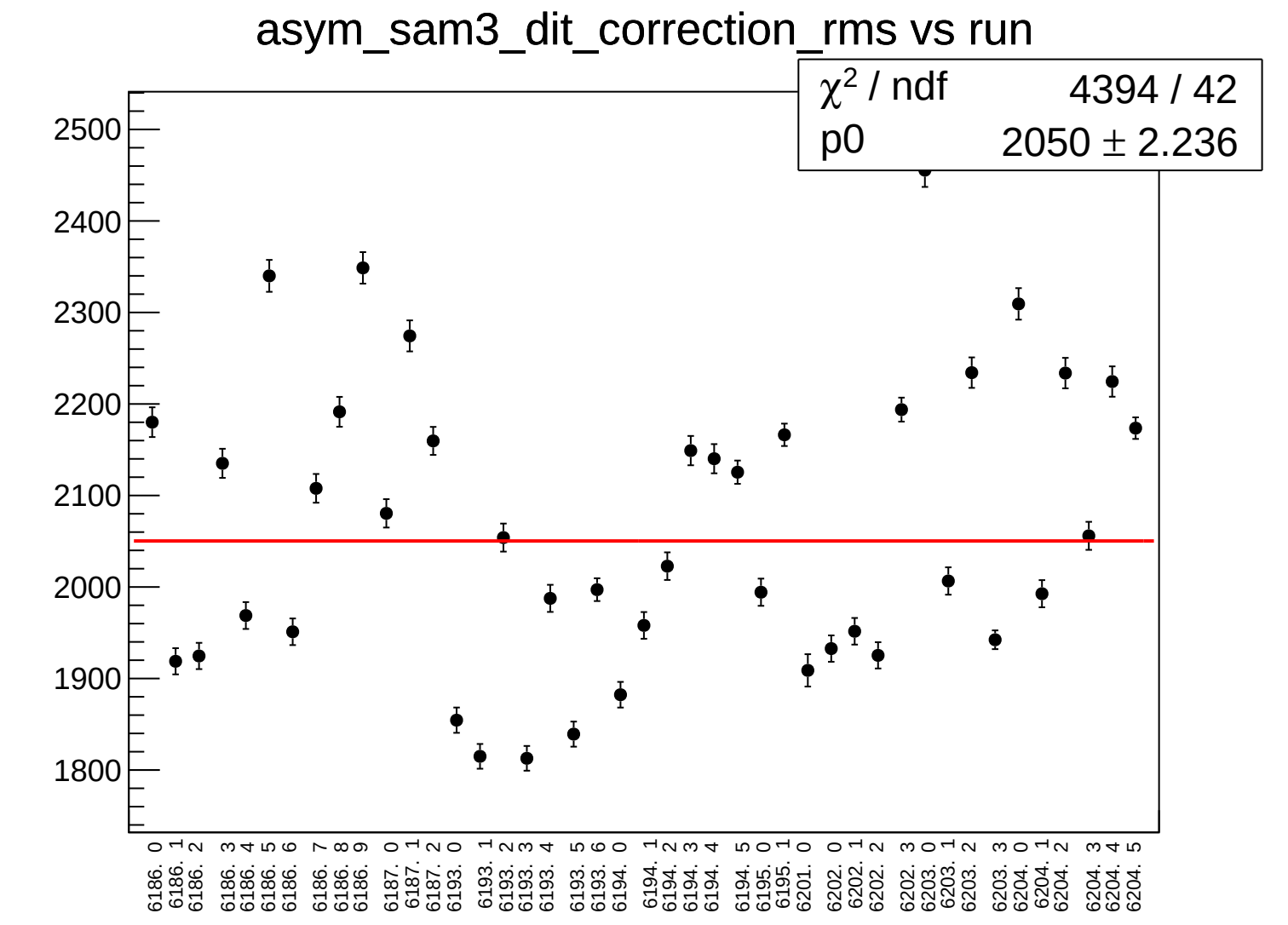

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 6258 / 42
p0 2070 ± 2.26
2800
2600
2400
2200
2000
1800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

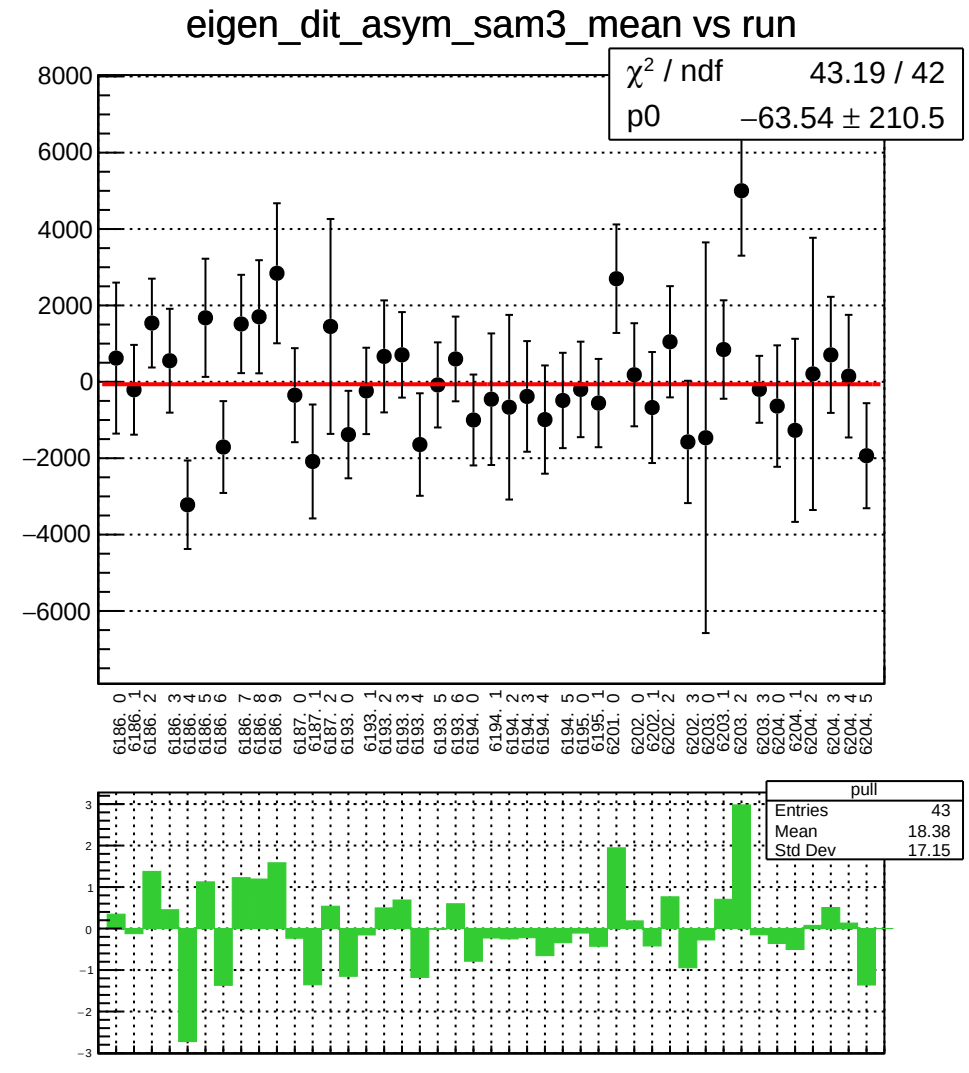

dit_asym_sam3_mean vs run
χ² / ndf 43.19 / 42
p0 −63.54 ± 210.5
8000
6000
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 18.38
Std Dev 17.15
3
2
1
0
−1
−2
−3

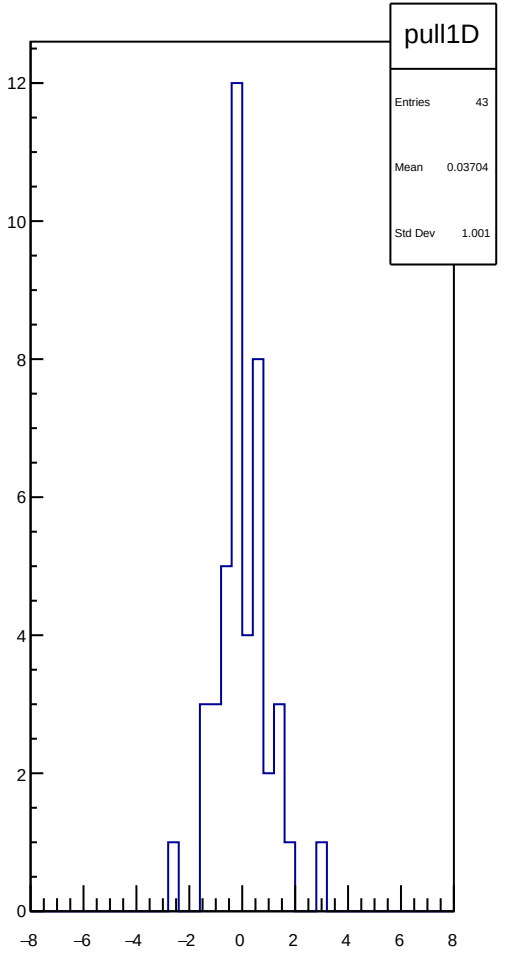

pull1D
Entries 43
Mean 0.03704
Std Dev 1.001
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

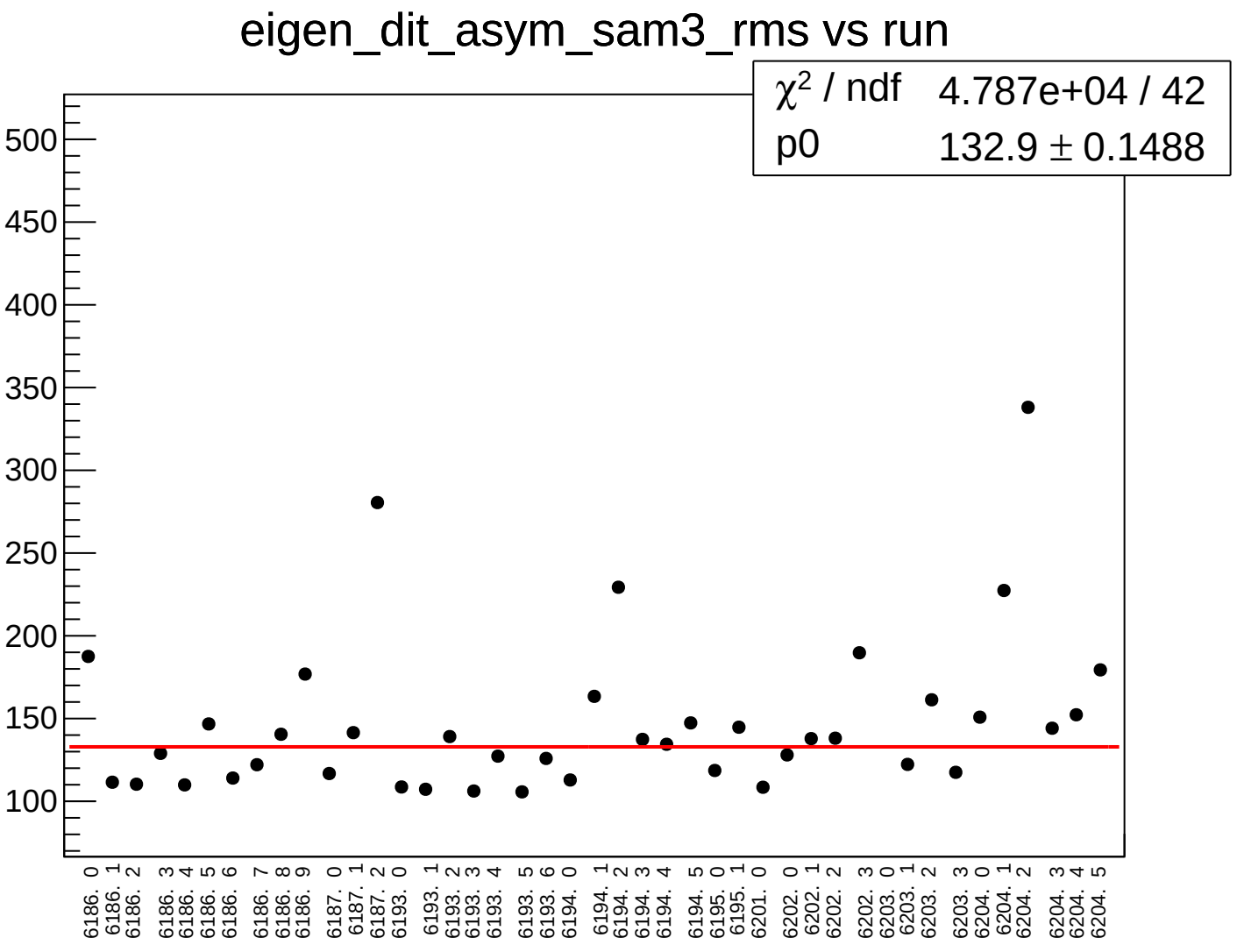

dit_asym_sam3_rms vs run
χ² / ndf 4.787e+04 / 42
p0 132.9 ± 0.1488
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

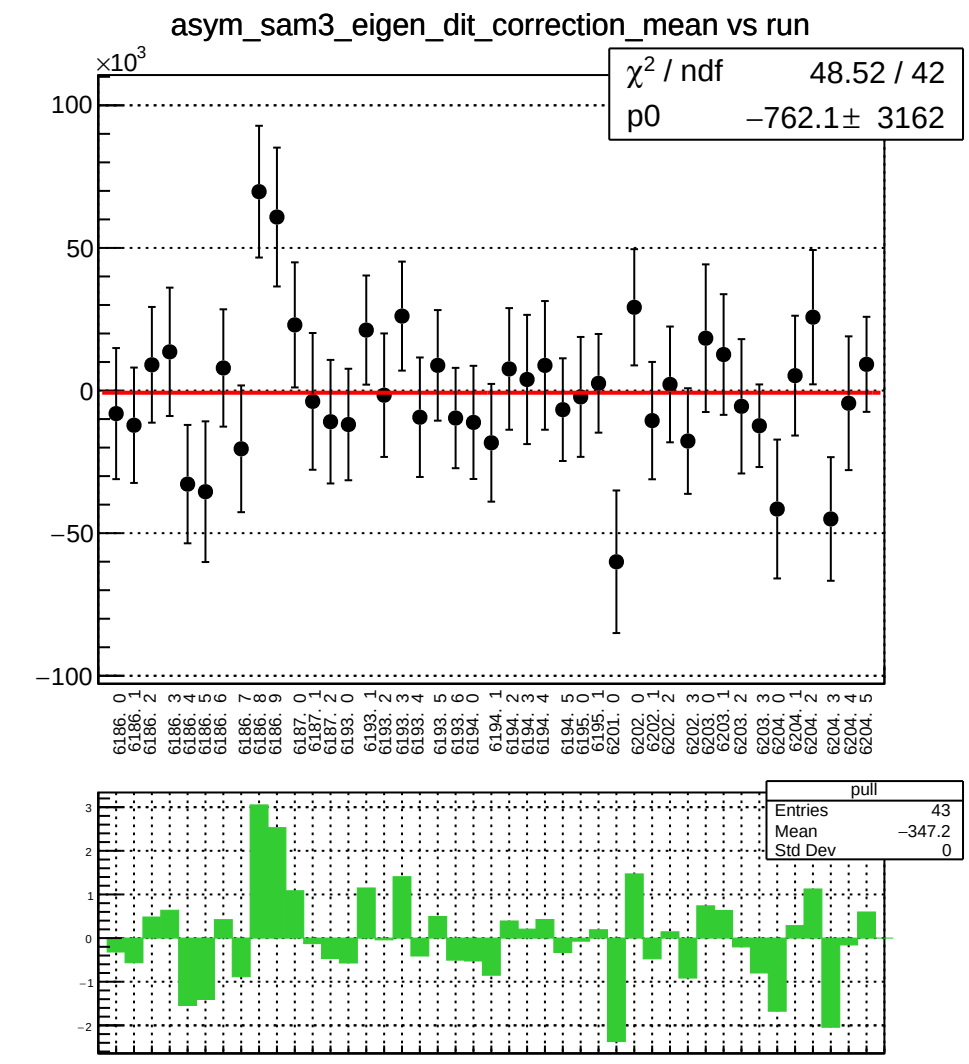

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 48.52 / 42
p0 −762.1± 3162
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −347.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.004916
Std Dev 1.062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

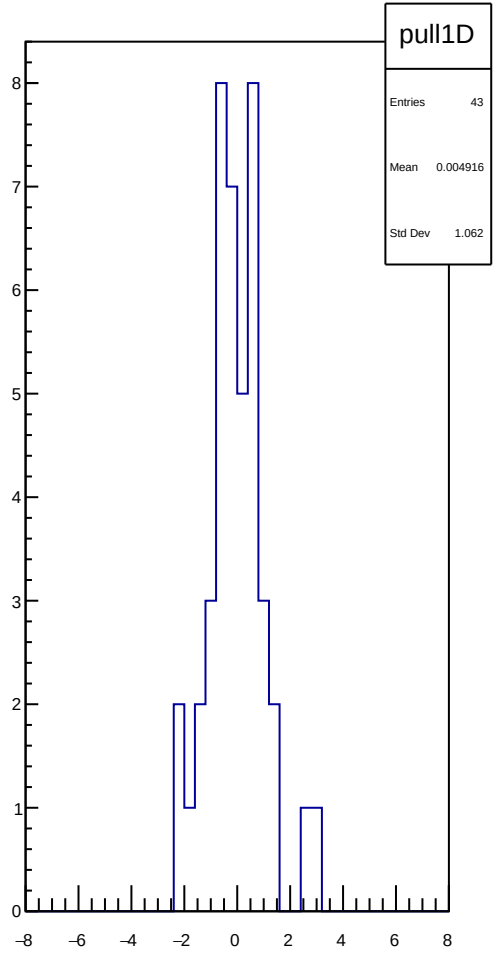

asym_sam3_dit_correction_rms vs run
χ² / ndf 4394 / 42
p0 2050 ± 2.236
2500
2400
2300
2200
2100
2000
1900
1800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

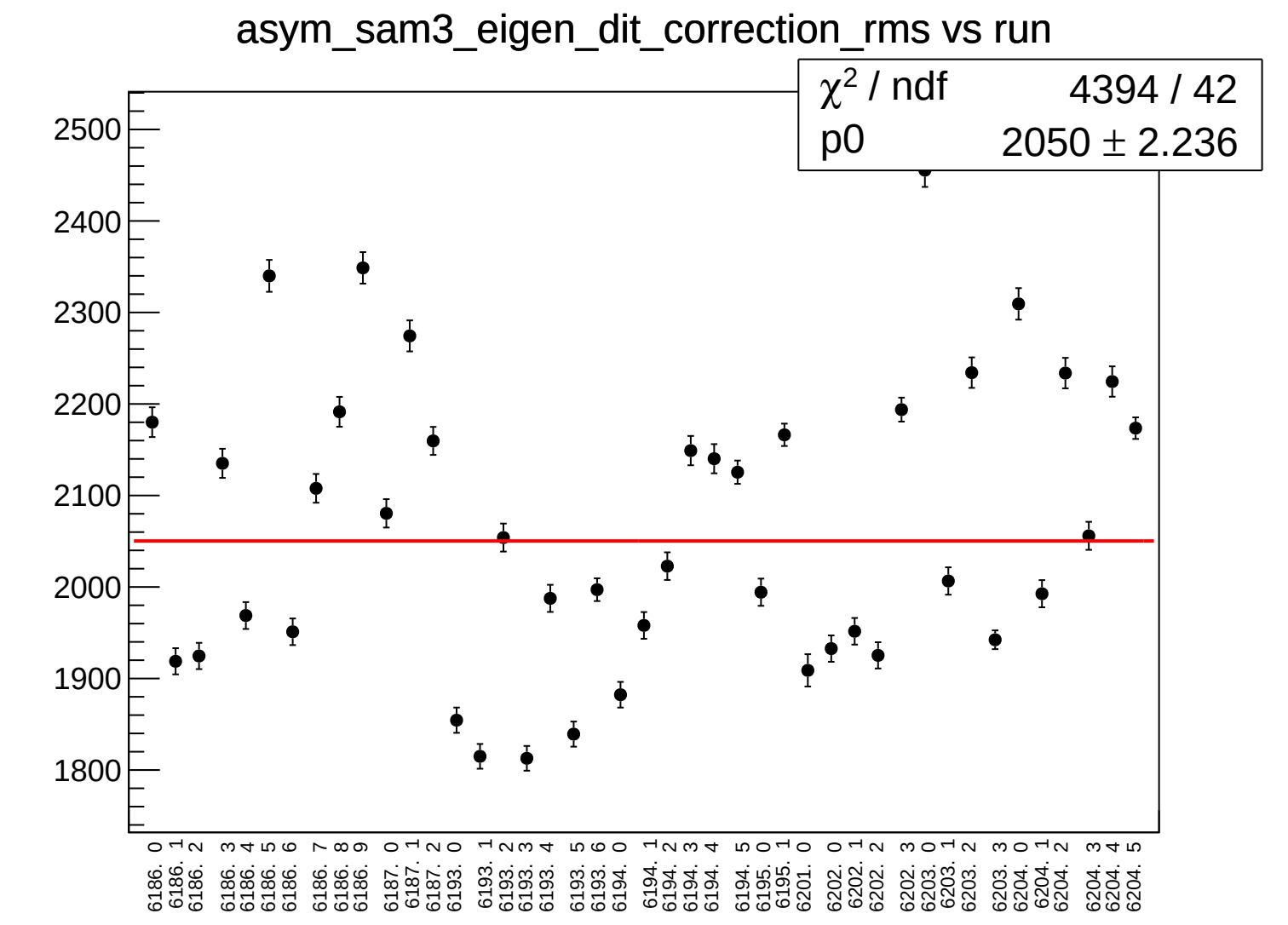

eigen_dit_asym_sam3_mean vs run
χ² / ndf 43.19 / 42
p0 −63.54 ± 210.5
8000
6000
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 18.38
Std Dev 17.15
3
2
1
0
−1
−2
−3

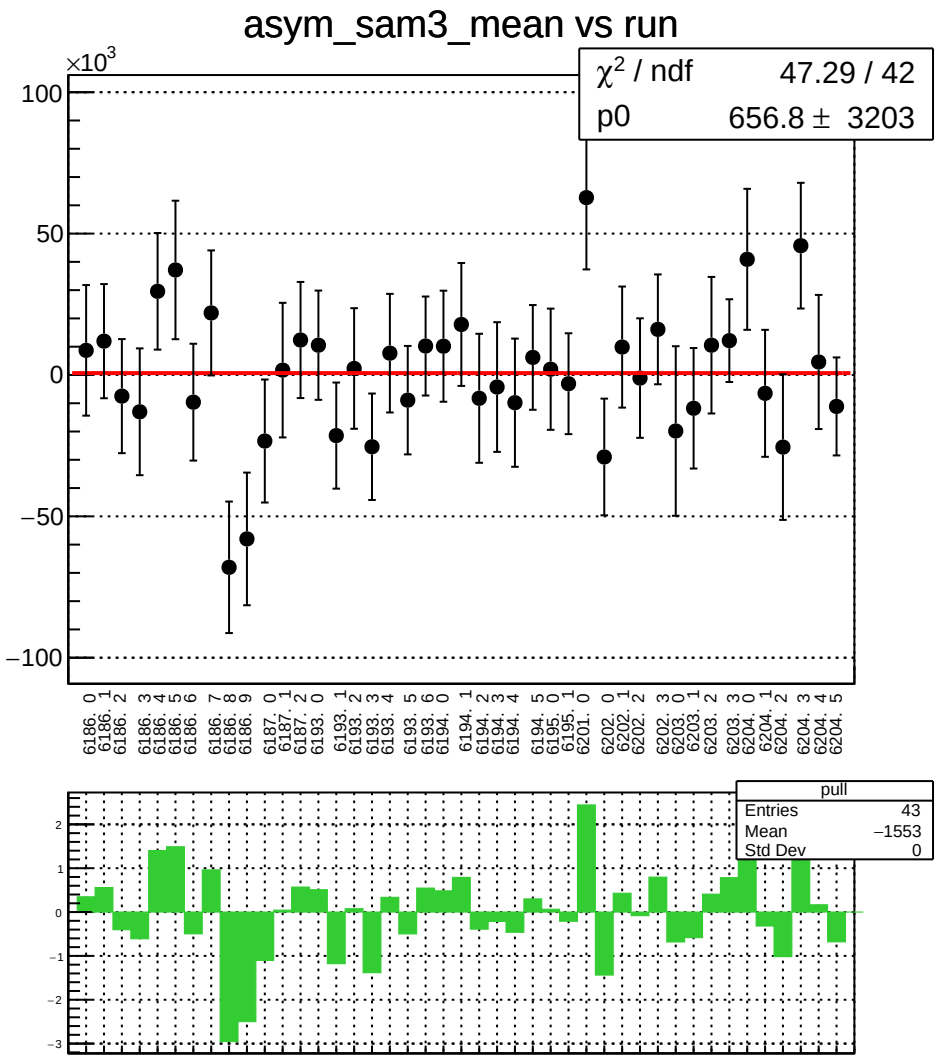

pull1D
Entries 43
Mean 0.03704
Std Dev 1.001
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

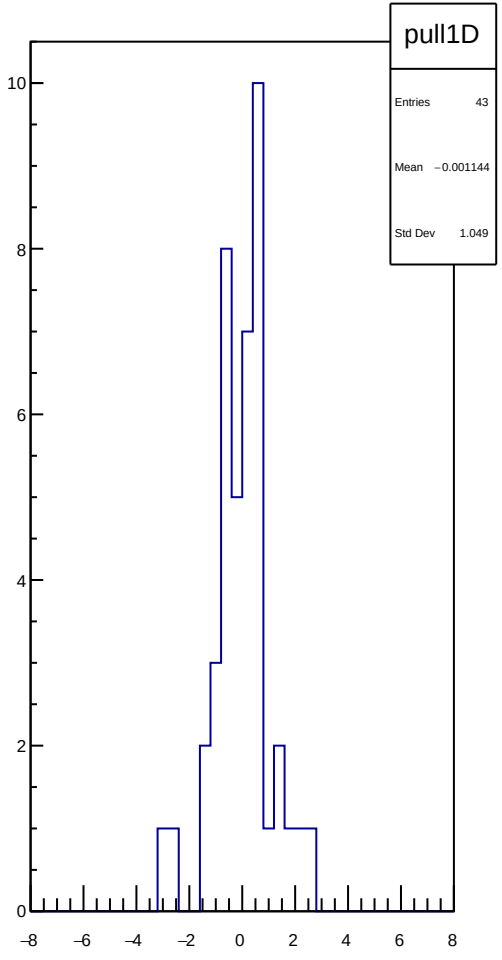

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 4.787e+04 / 42
p0 132.9 ± 0.1488
500
450
400
350
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

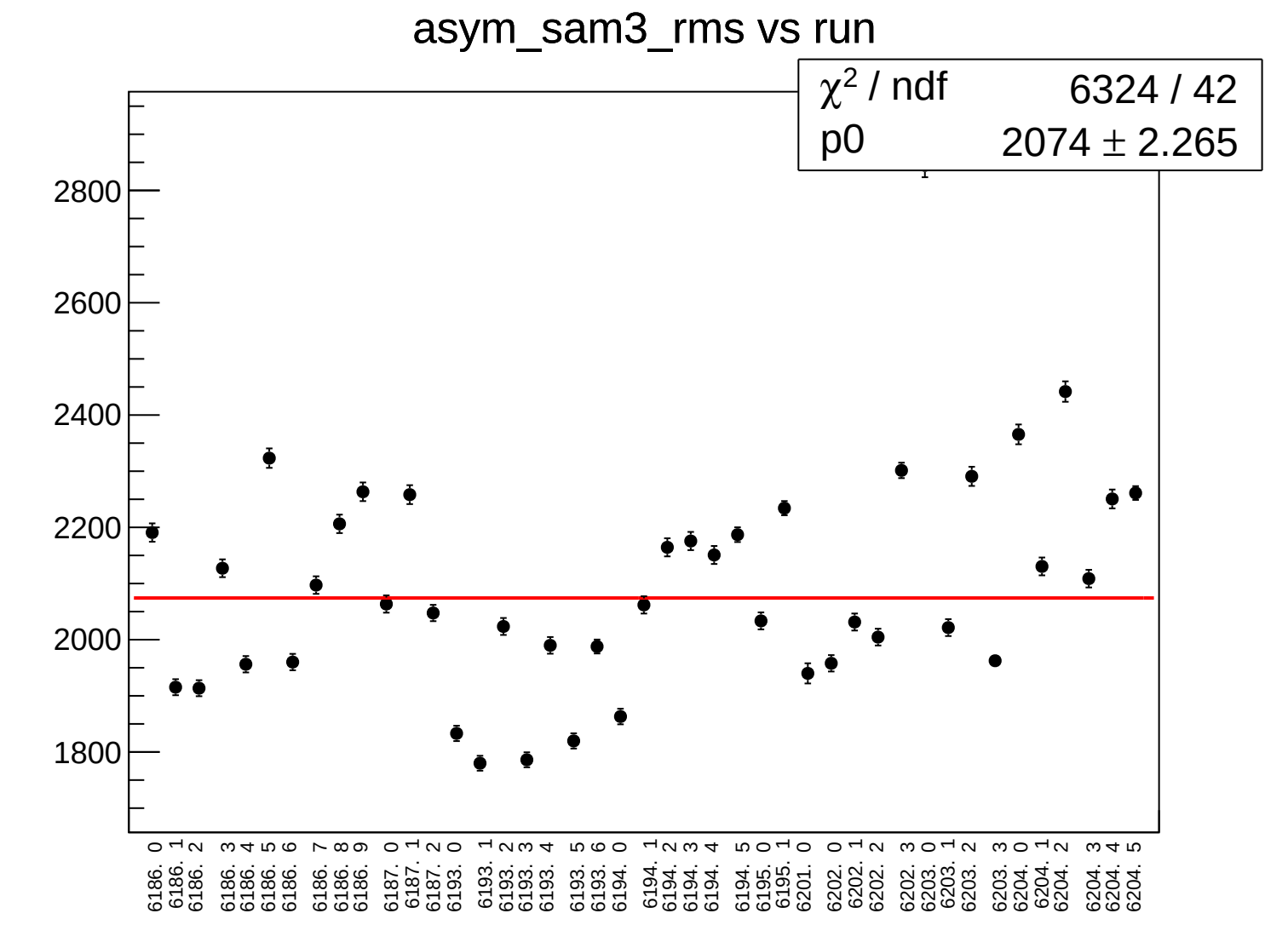

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 48.52 / 42
p0 −762.1± 3162
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −347.2
Std Dev 0
3
2
1
0
−1
−2

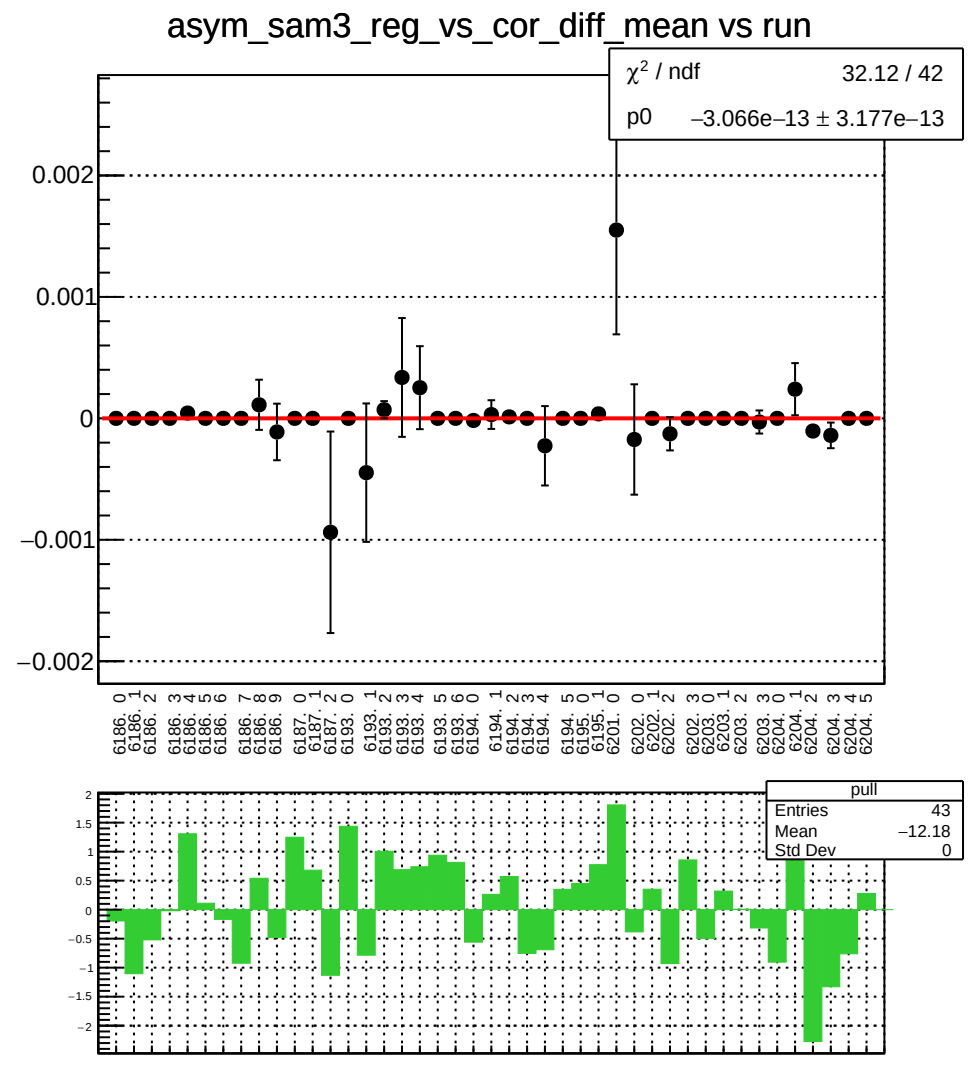

pull1D
Entries 43
Mean 0.004916
Std Dev 1.062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

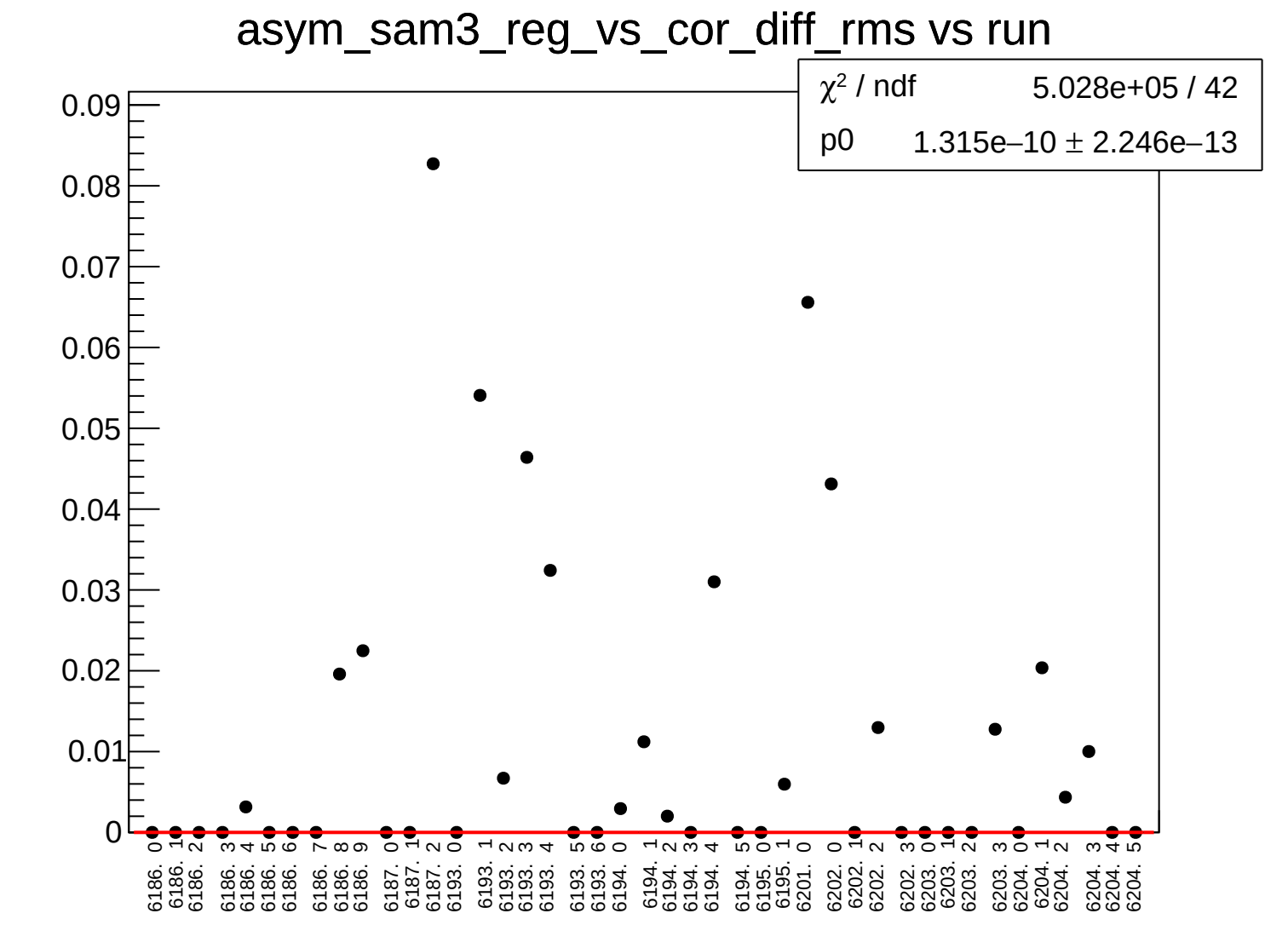

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 4394 / 42
p0 2050 ± 2.236
2500
2400
2300
2200
2100
2000
1900
1800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

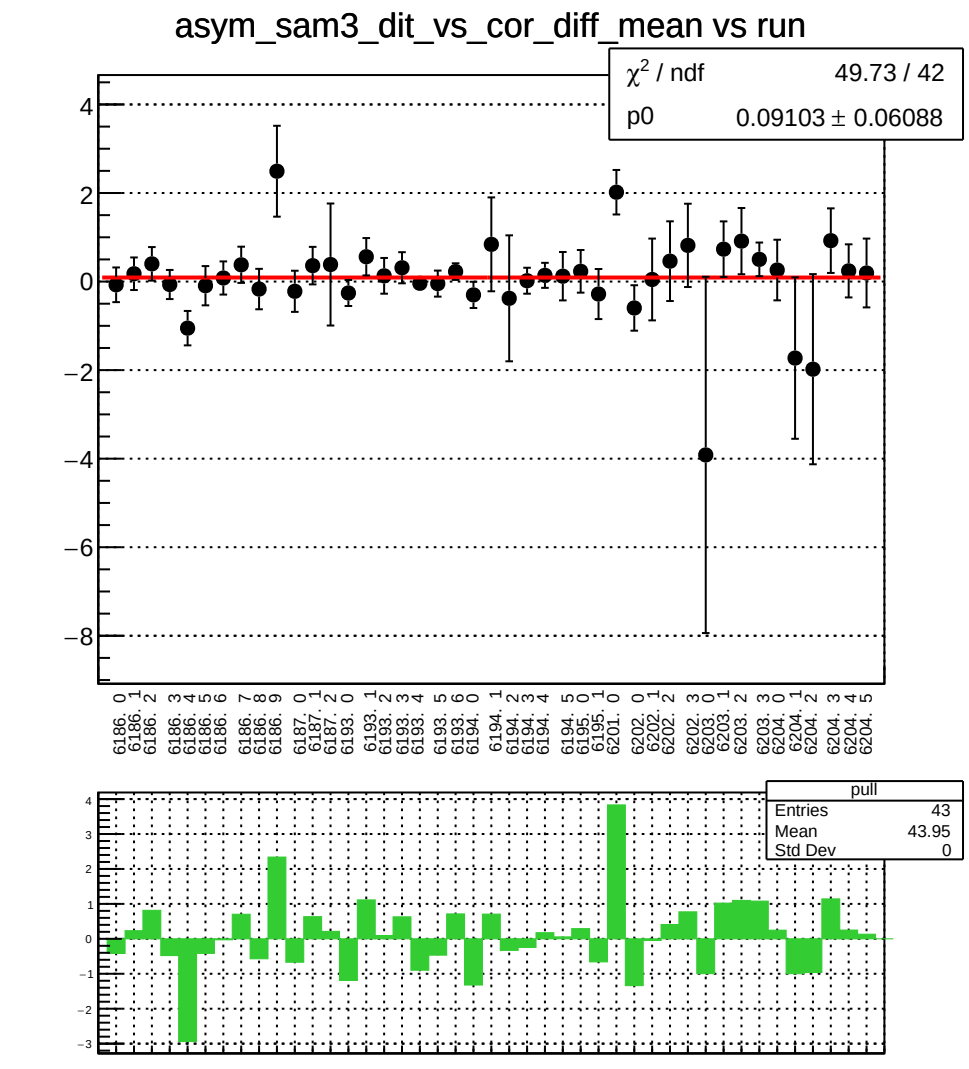

asym_sam3_mean vs run
×10^3
χ² / ndf 47.29 / 42
p0 656.8 ± 3203
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1553
Std Dev 0
2
1
0
−1
−2
−3

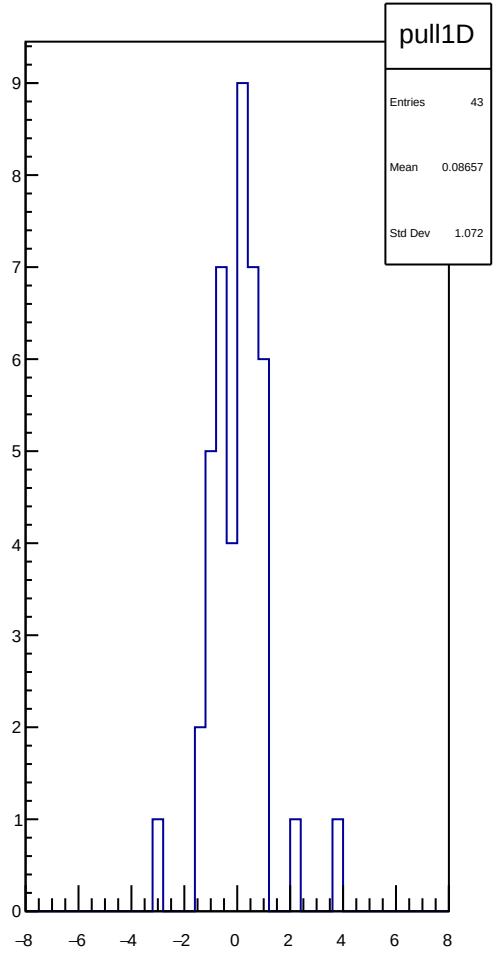

pull1D
Entries 43
Mean −0.001144
Std Dev 1.049
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

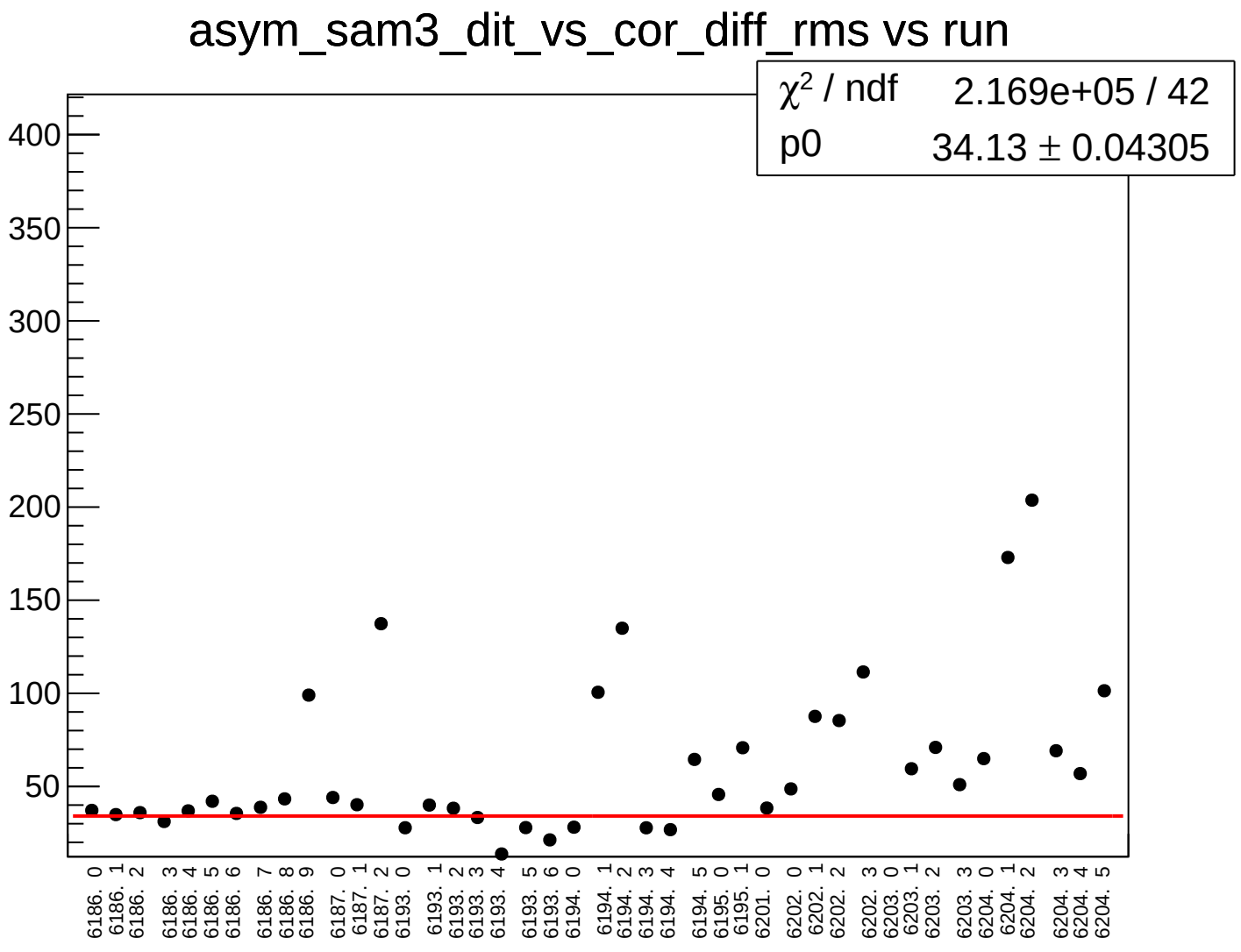

asym_sam3_rms vs run
χ² / ndf 6324 / 42
p0 2074 ± 2.265
2800
2600
2400
2200
2000
1800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

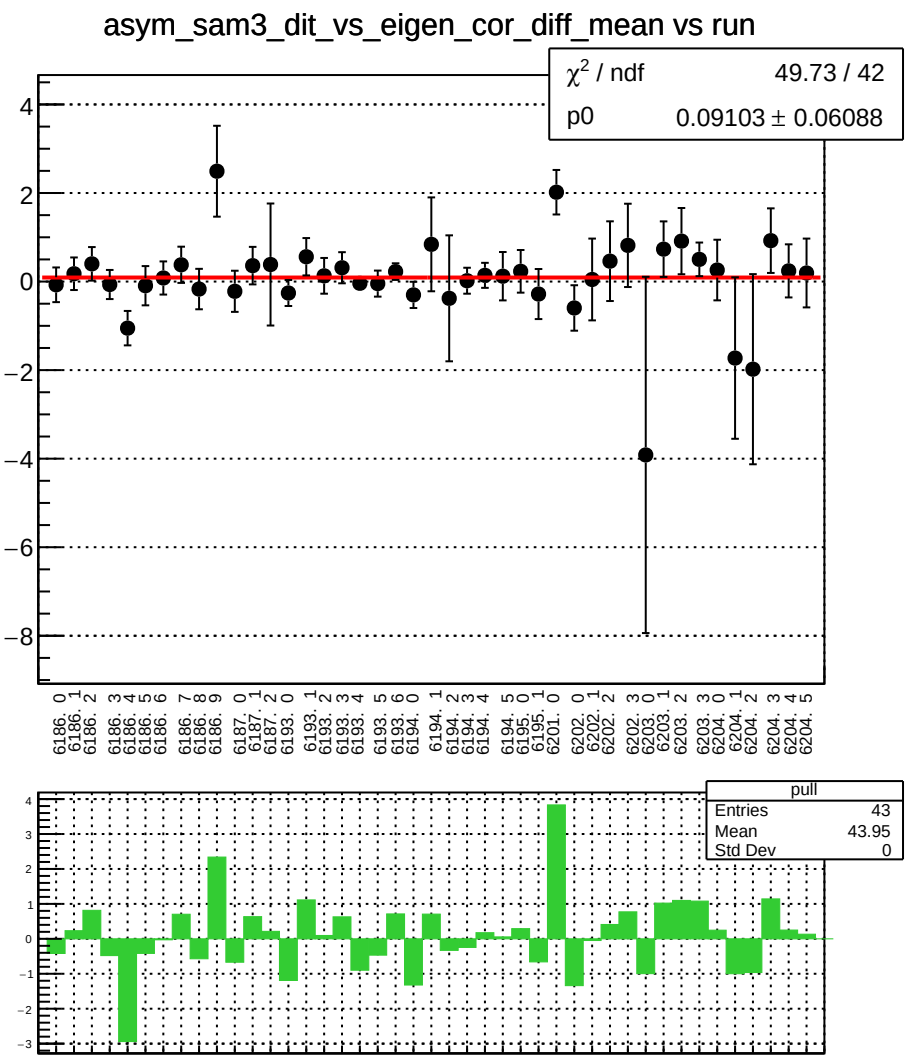

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 32.12 / 42
p0 −3.066e−13 ± 3.177e−13
0.002
0.001
0
−0.001
−0.002
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −12.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.0451
Std Dev 0.8632
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

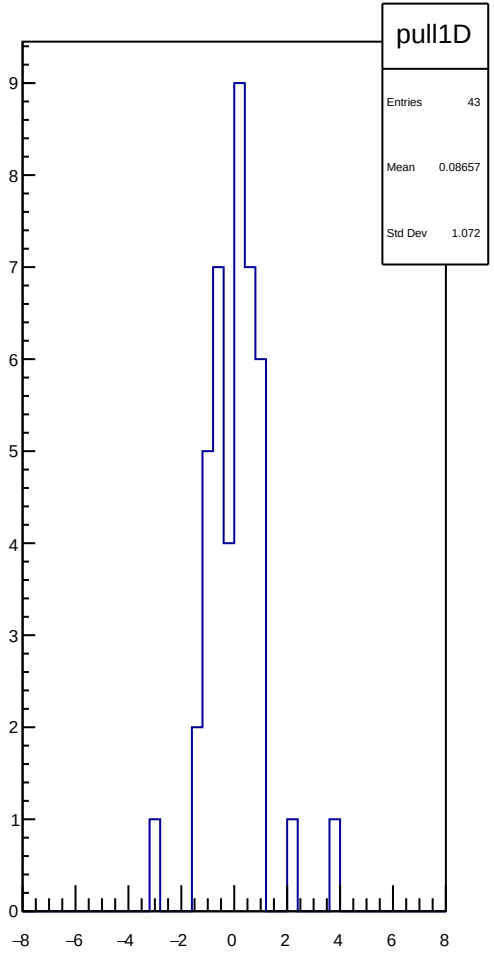

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 5.028e+05 / 42
p0 1.315e−10 ± 2.246e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

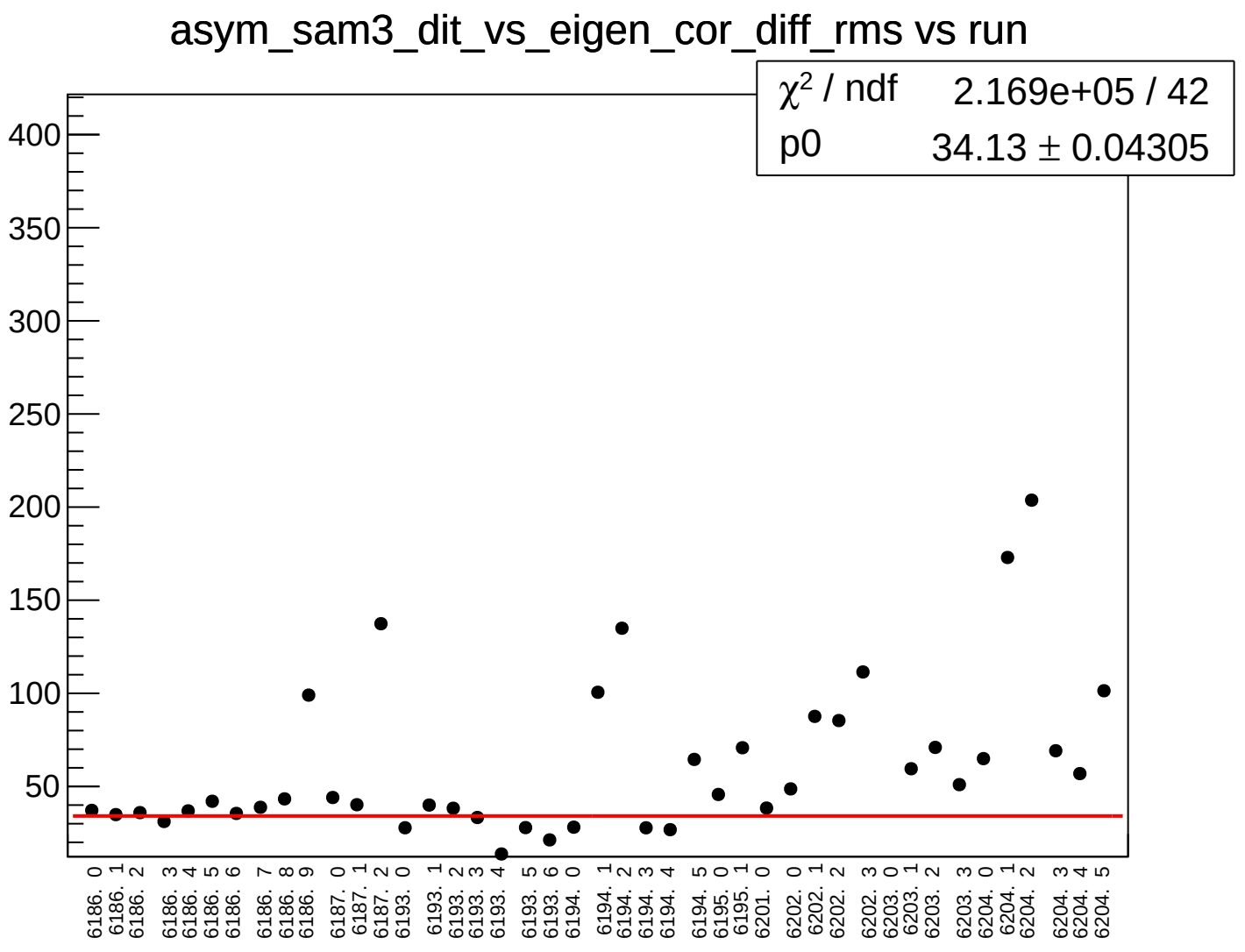

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 49.73 / 42
p0 0.09103 ± 0.06088
4
2
0
−2
−4
−6
−8
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 43.95
Std Dev 0
4
3
2
1
0
−1
−2
−3

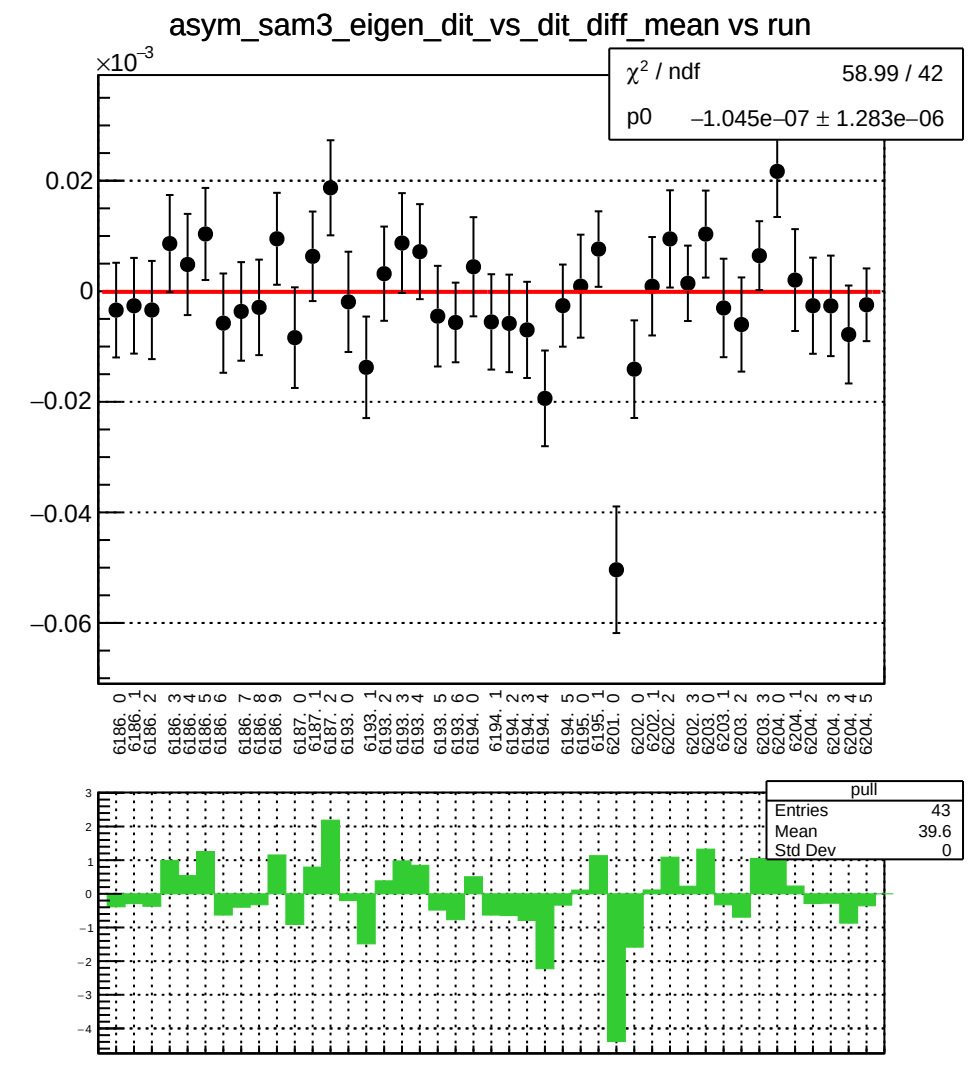

pull1D
Entries 43
Mean 0.08657
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

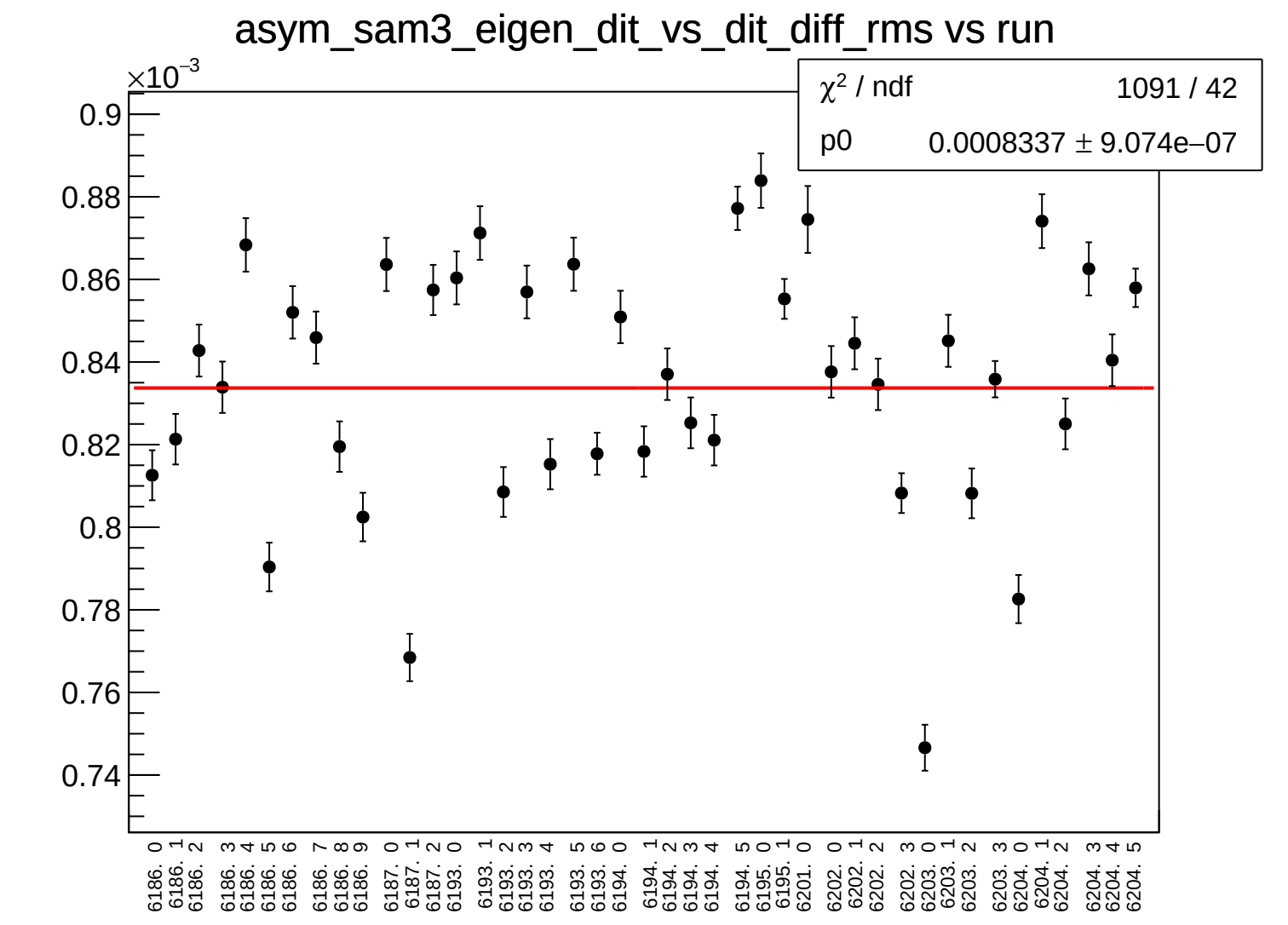

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 2.169e+05 / 42
p0 34.13 ± 0.04305
400
350
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

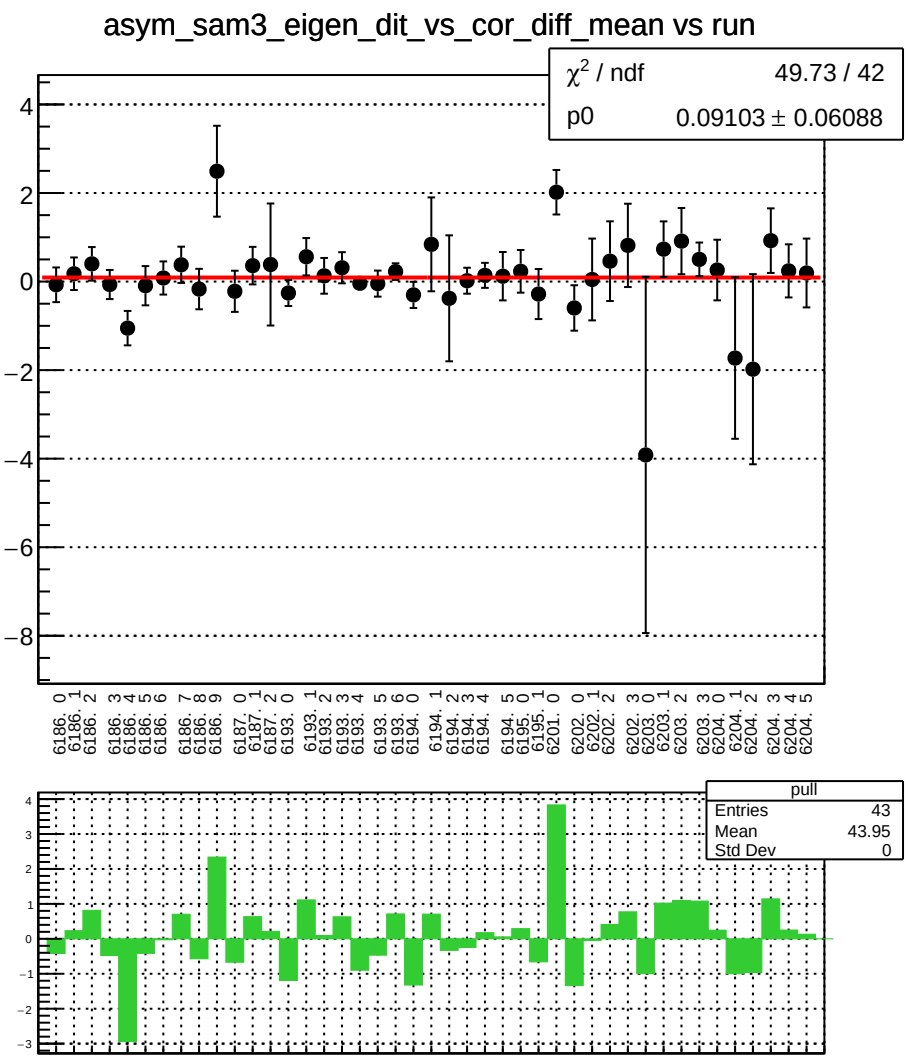

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.73 / 42
p0 0.09103 ± 0.06088
pull
Entries 43
Mean 43.95
Std Dev 0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

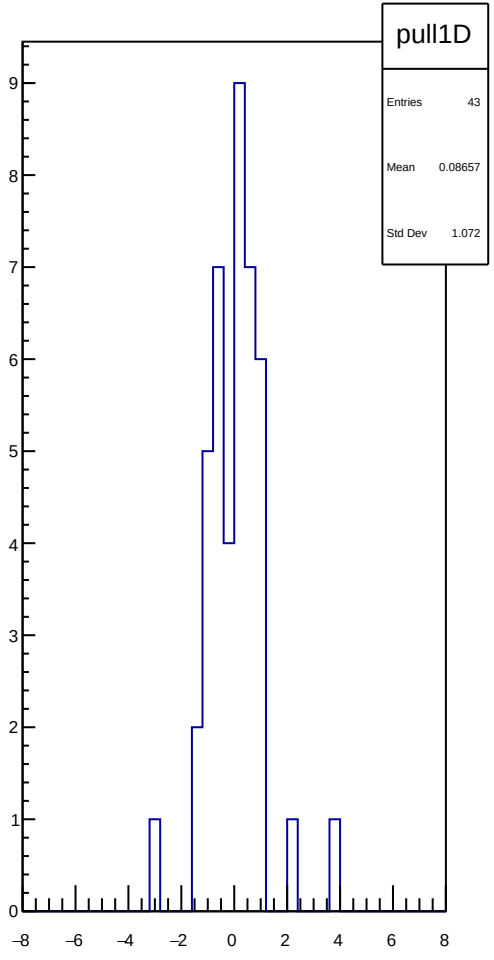

pull1D
Entries 43
Mean 0.08657
Std Dev 1.072

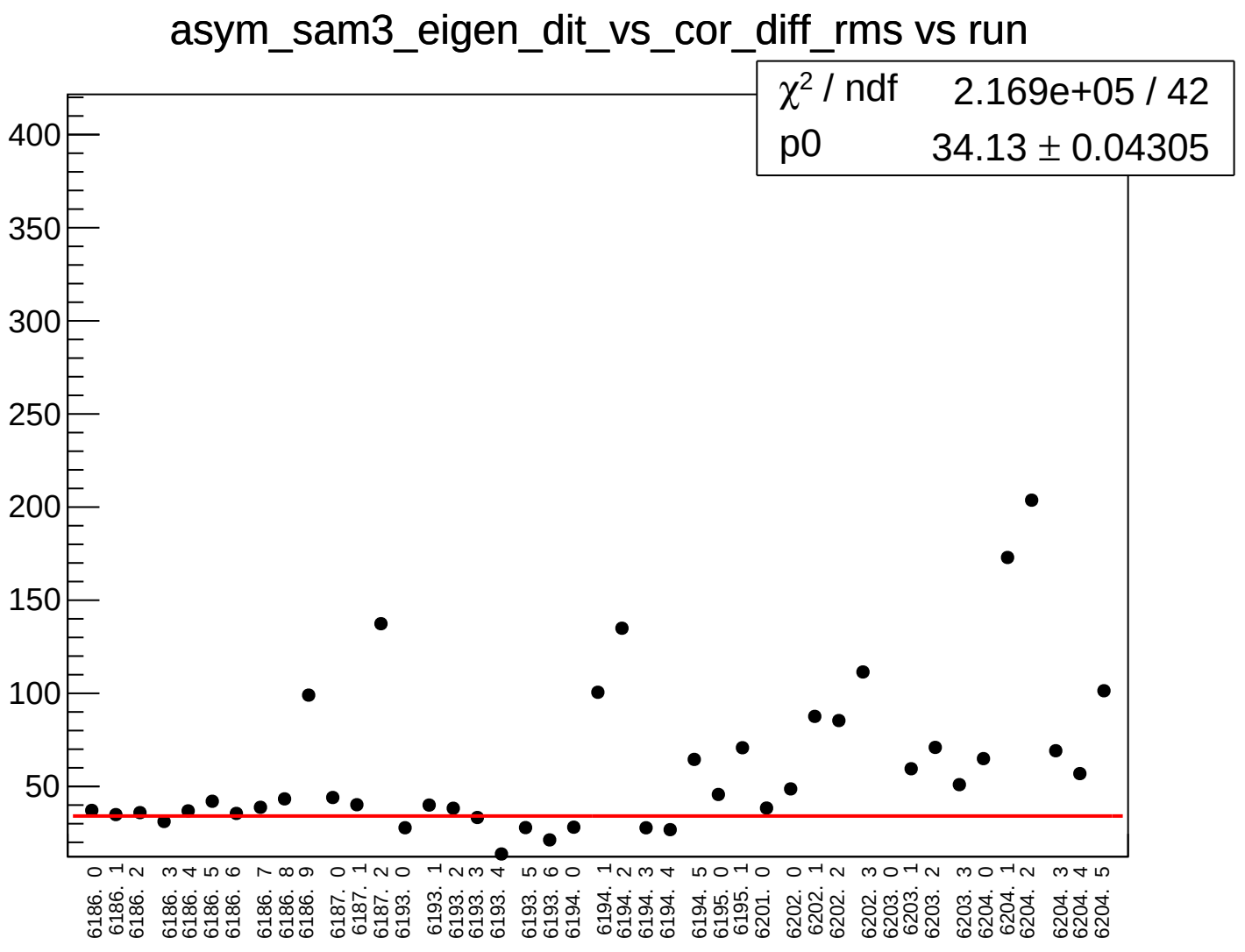

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.169e+05 / 42
p0 34.13 ± 0.04305
400
350
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

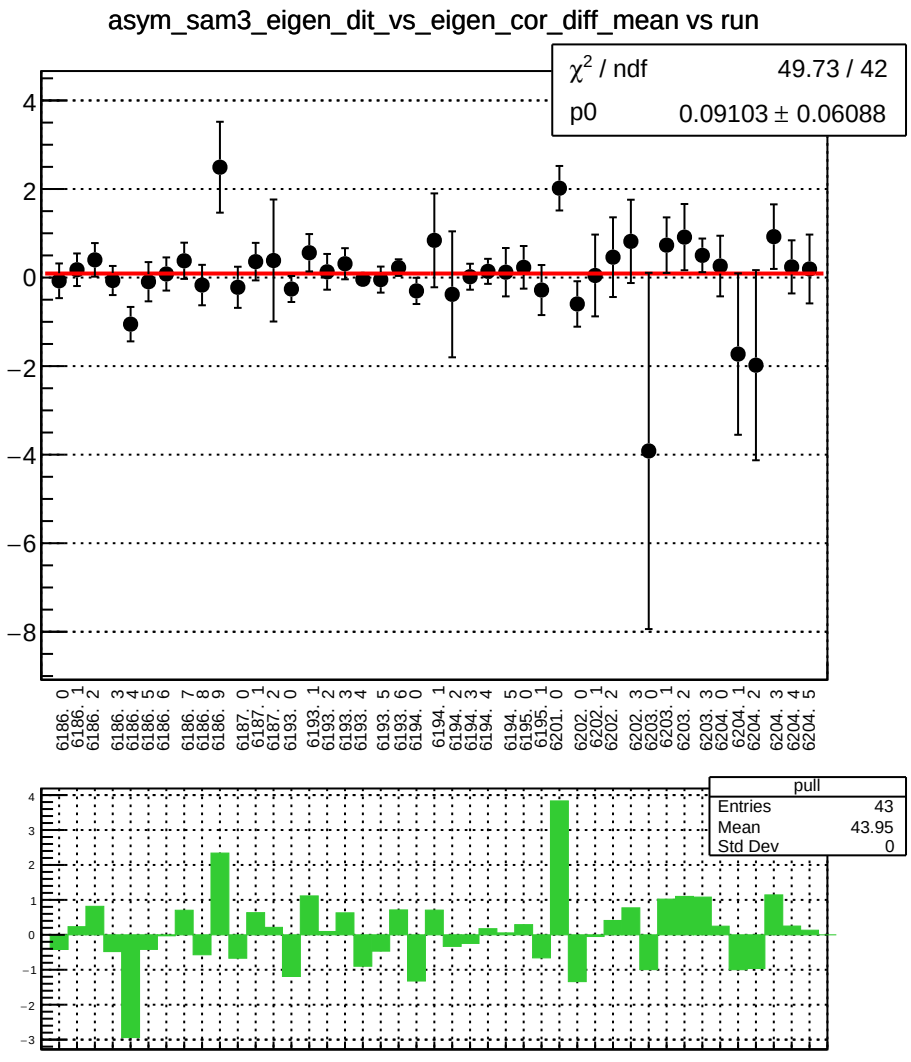

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 58.99 / 42
p0 −1.045e−07 ± 1.283e−06
0.02
0
−0.02
−0.04
−0.06
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 39.6
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.04874
Std Dev 1.17
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

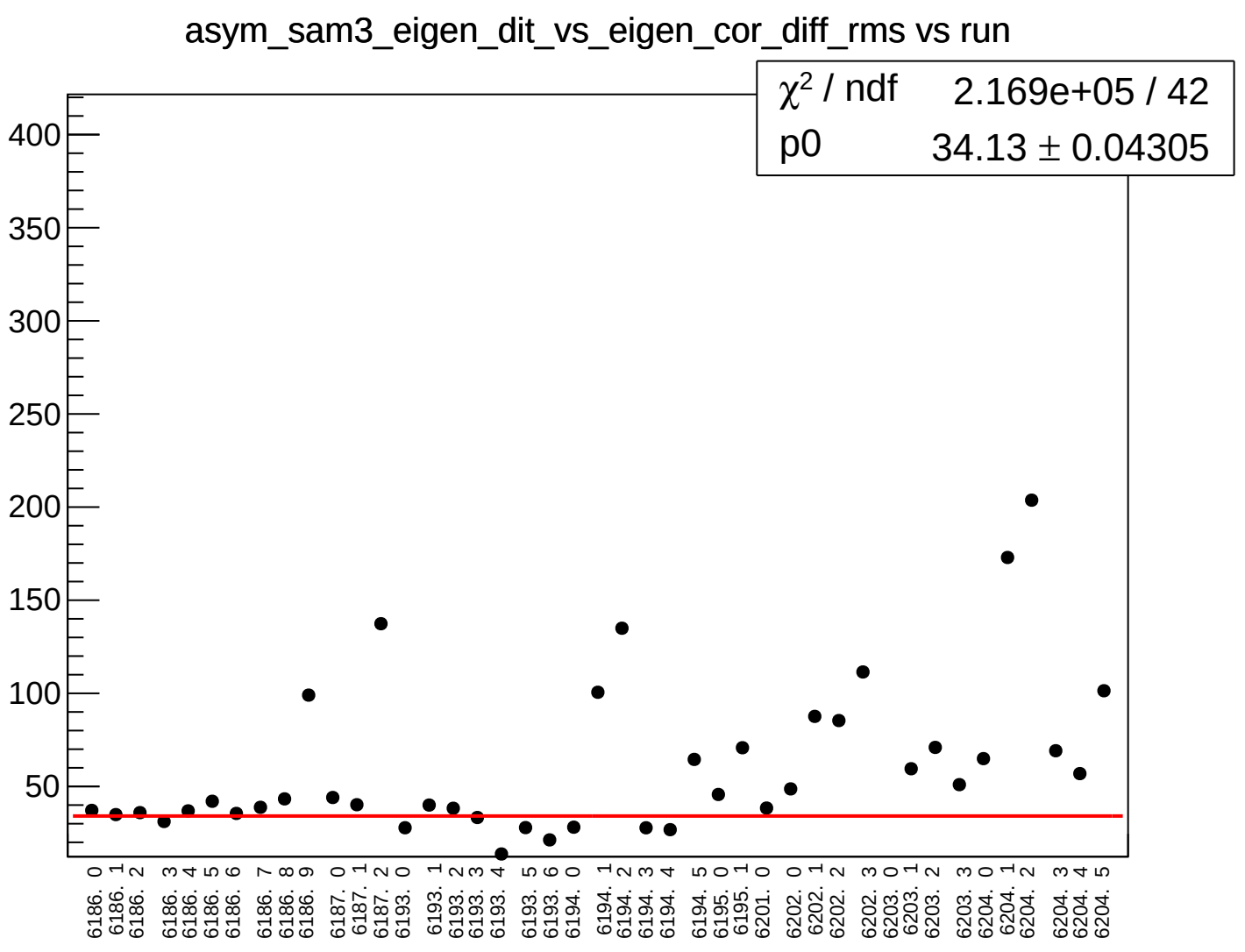

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1091 / 42
p0 0.0008337 ± 9.074e−07
0.9
0.88
0.86
0.84
0.82
0.8
0.78
0.76
0.74
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

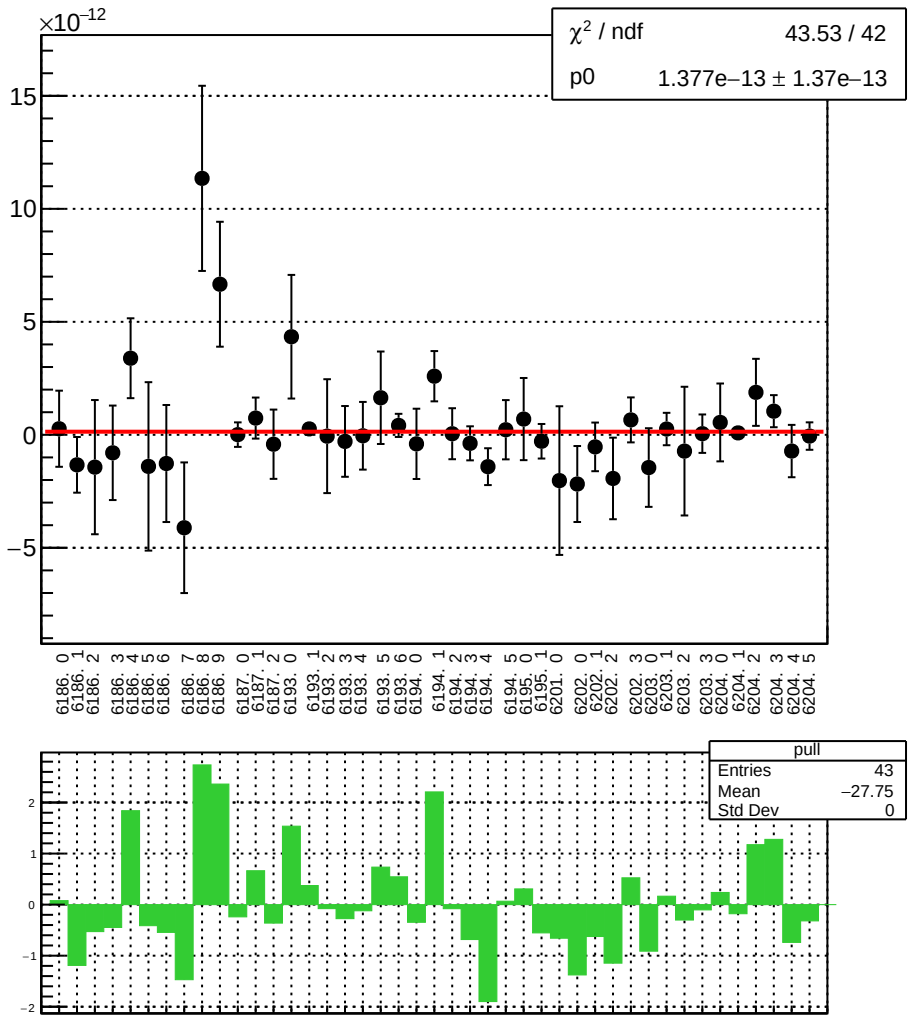

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.73 / 42
p0 0.09103 ± 0.06088
pull
Entries 43
Mean 43.95
Std Dev 0

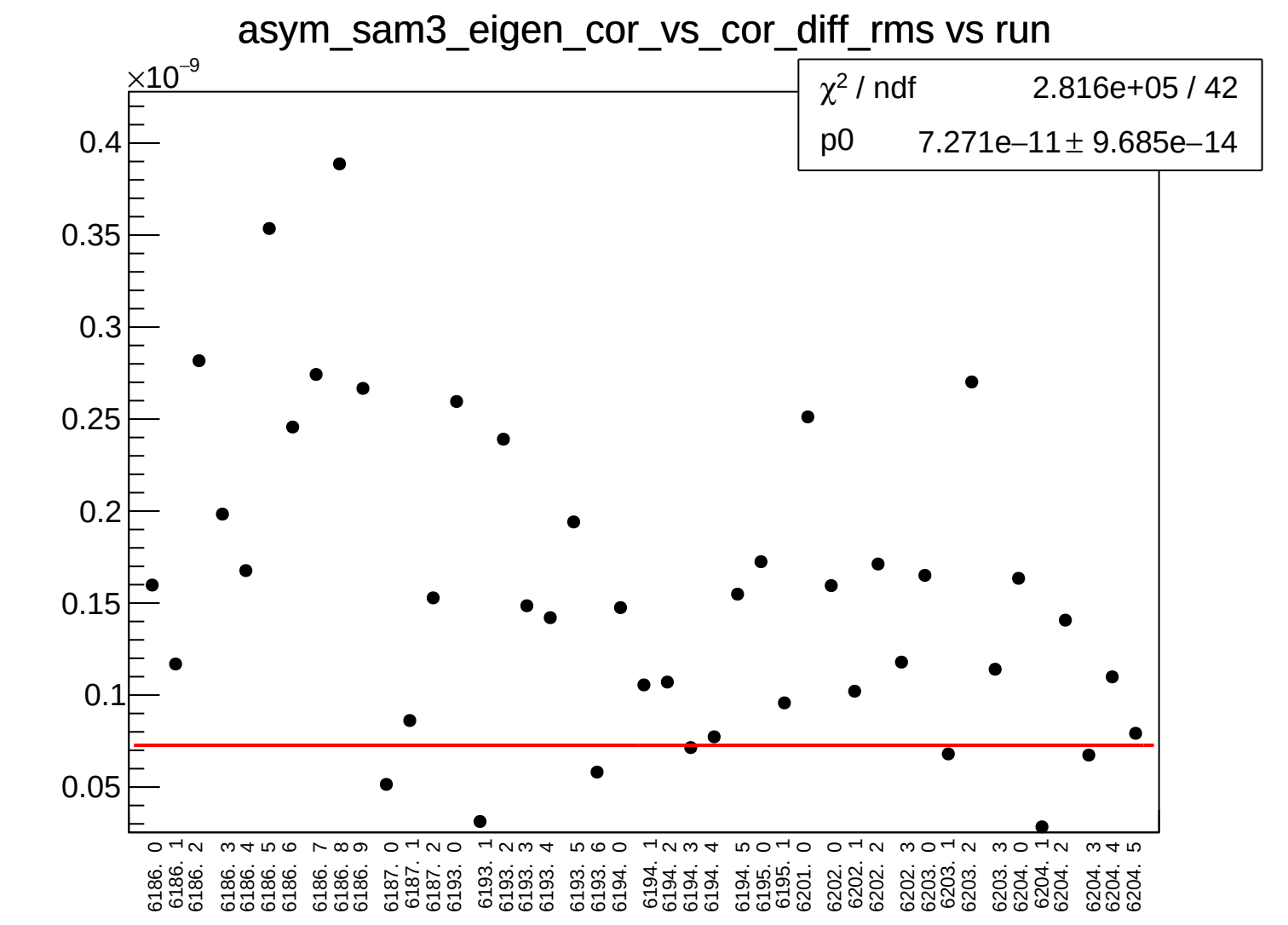

pull1D
Entries 43
Mean 0.08657
Std Dev 1.072

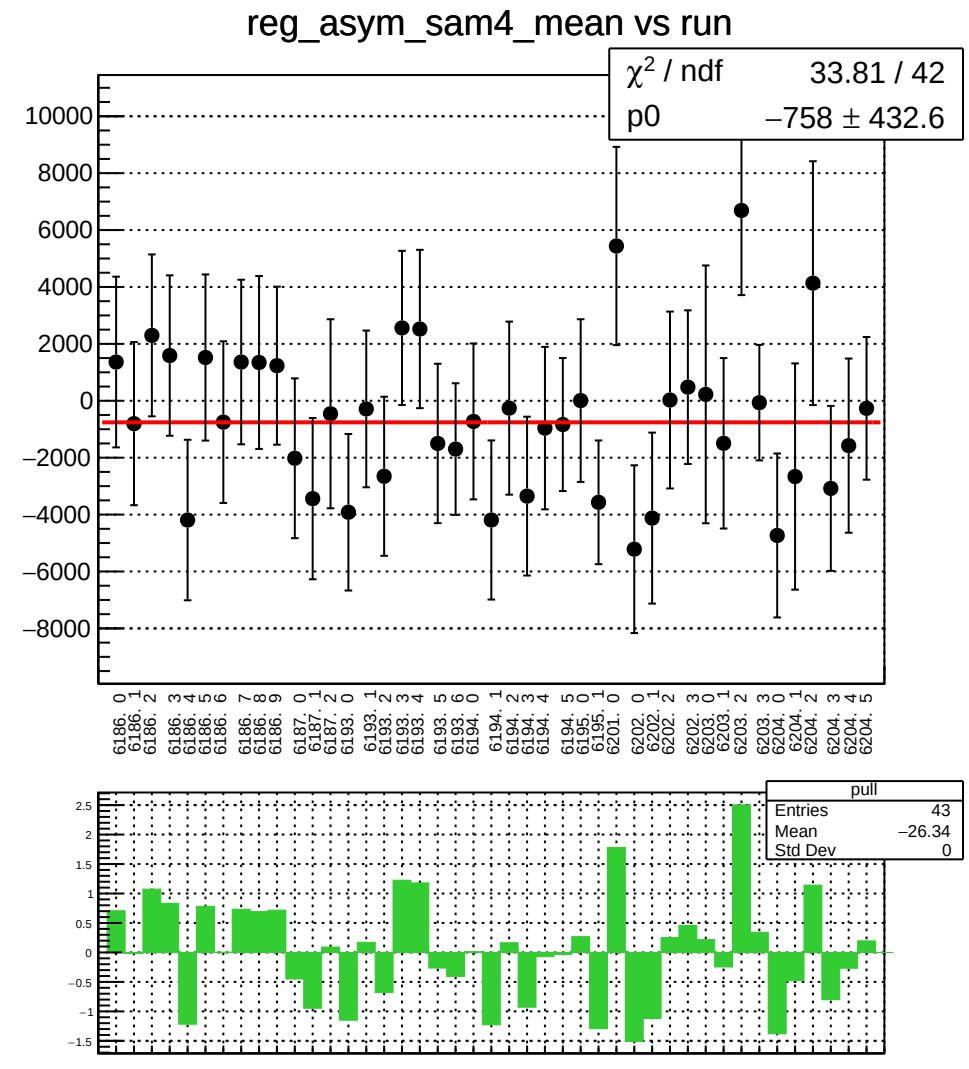

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.169e+05 / 42
p0 34.13 ± 0.04305
400
350
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

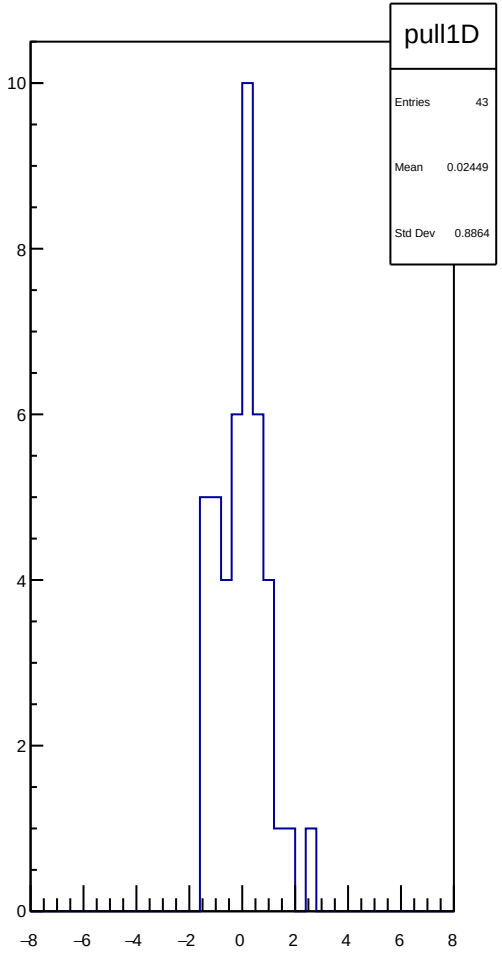

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.73 / 42
p0 0.09103 ± 0.06088
pull
Entries 43
Mean 43.95
Std Dev 0
pull1D
Entries 43
Mean 0.08657
Std Dev 1.072

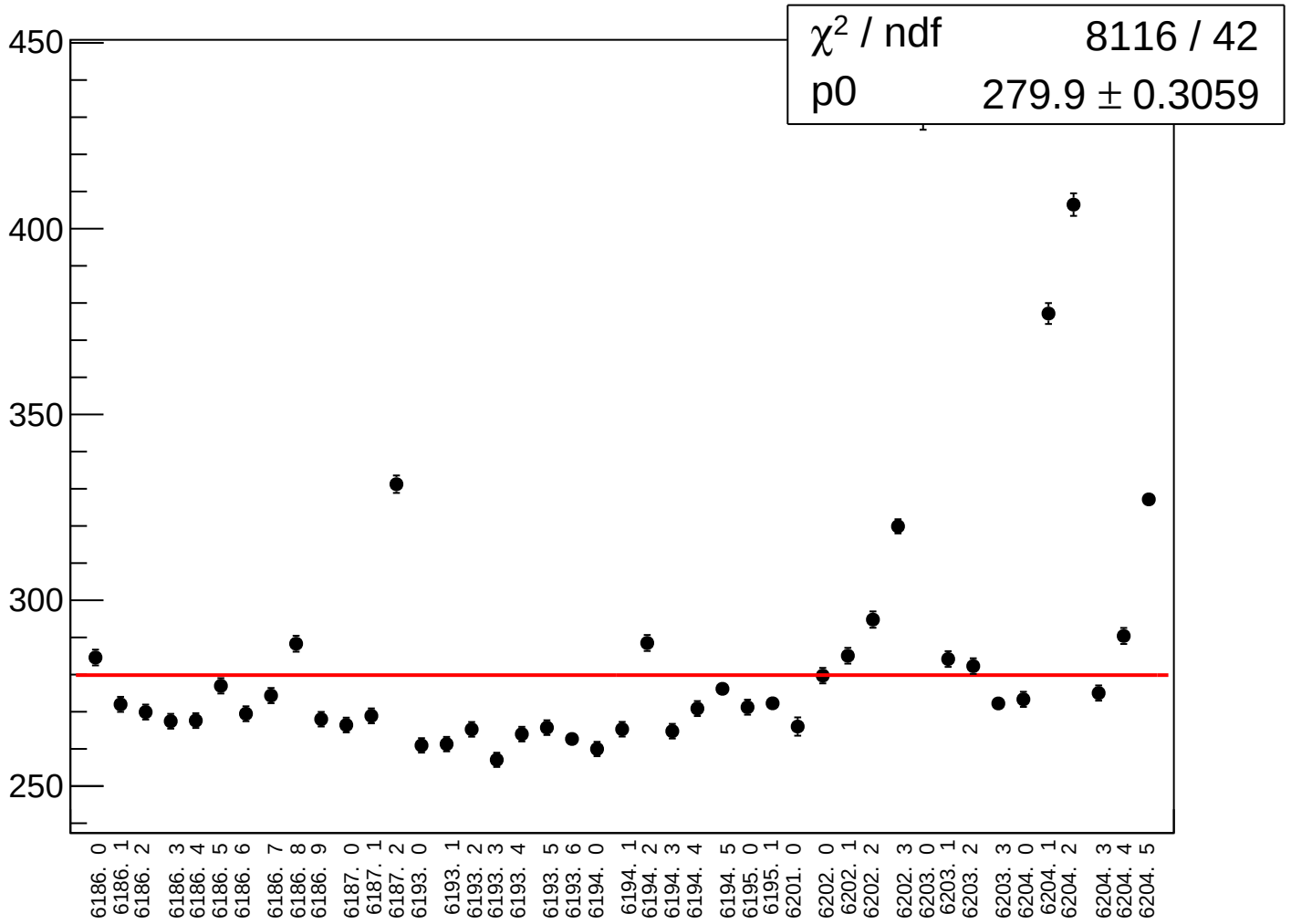

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.169e+05 / 42
p0 34.13 ± 0.04305
400
350
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

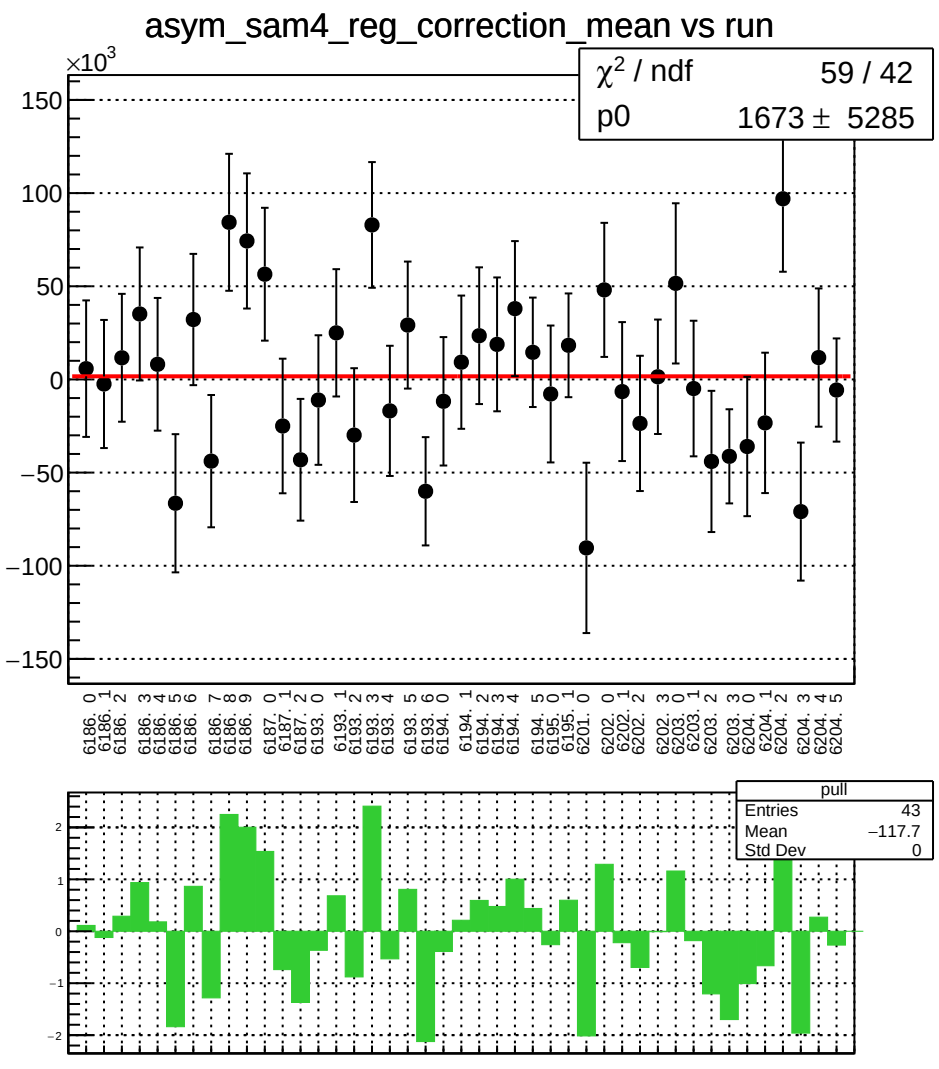

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 43.53 / 42
p0 1.377e−13 ± 1.37e−13
15
10
5
0
−5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −27.75
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02895
Std Dev 1.006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

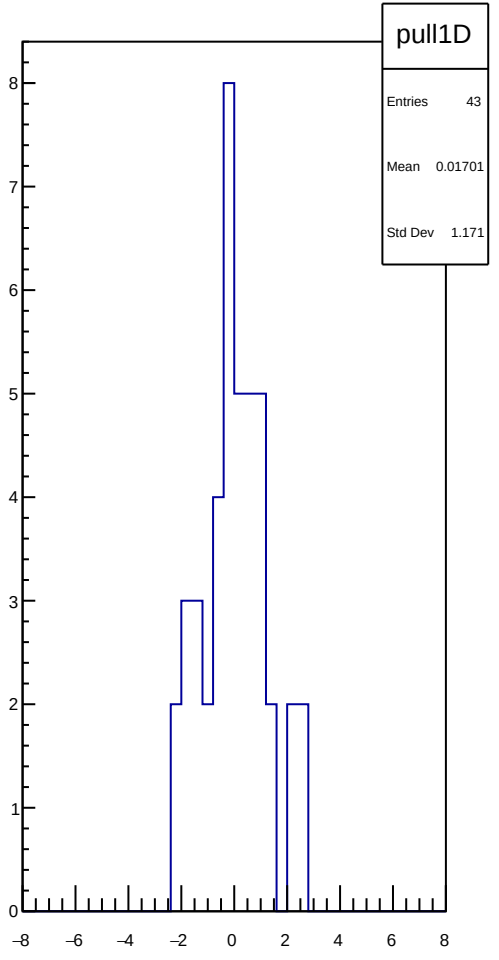

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.816e+05 / 42
p0 7.271e−11 ± 9.685e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

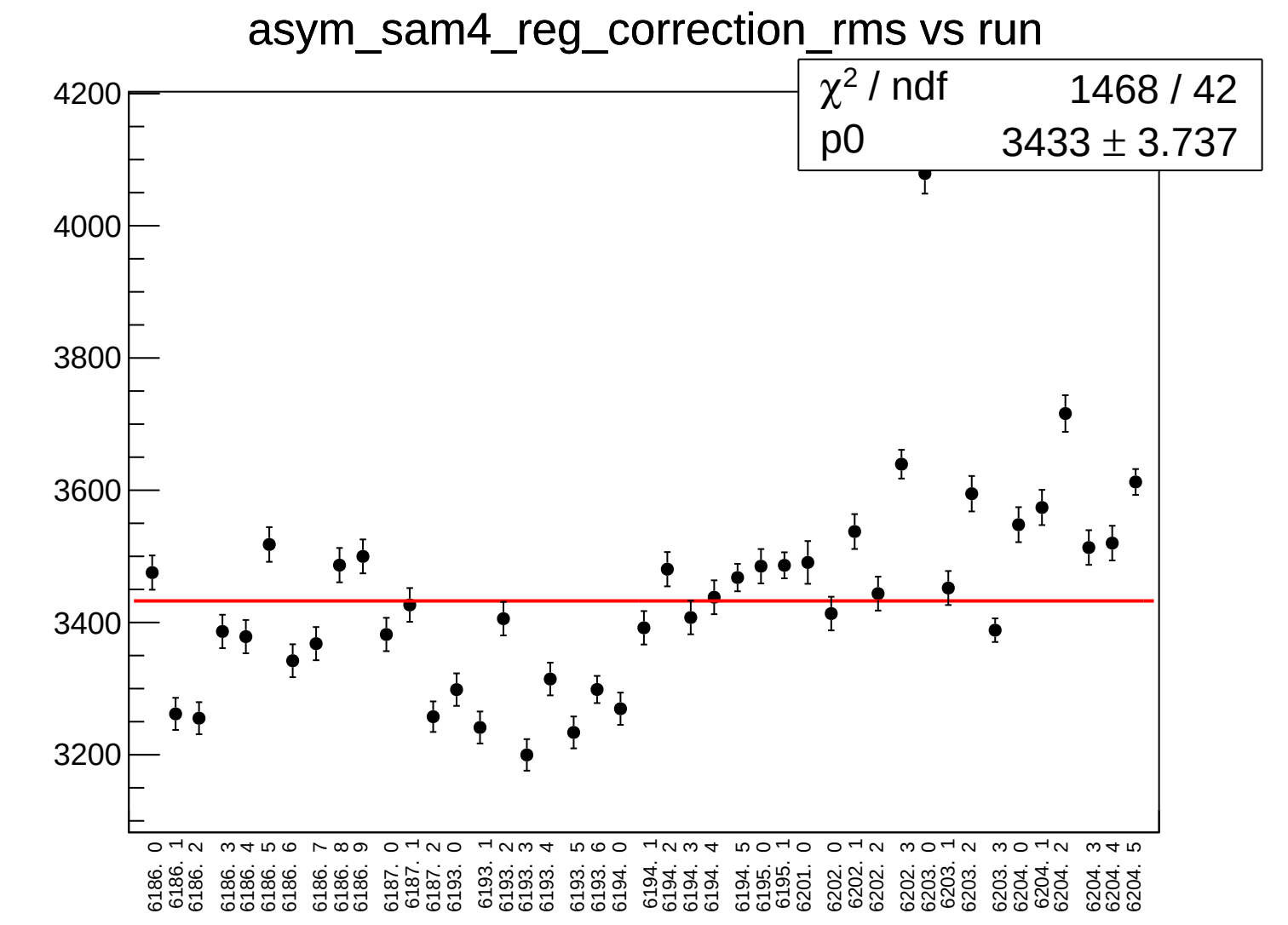

reg_asym_sam4_mean vs run
χ² / ndf 33.81 / 42
p0 −758 ± 432.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −26.34
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

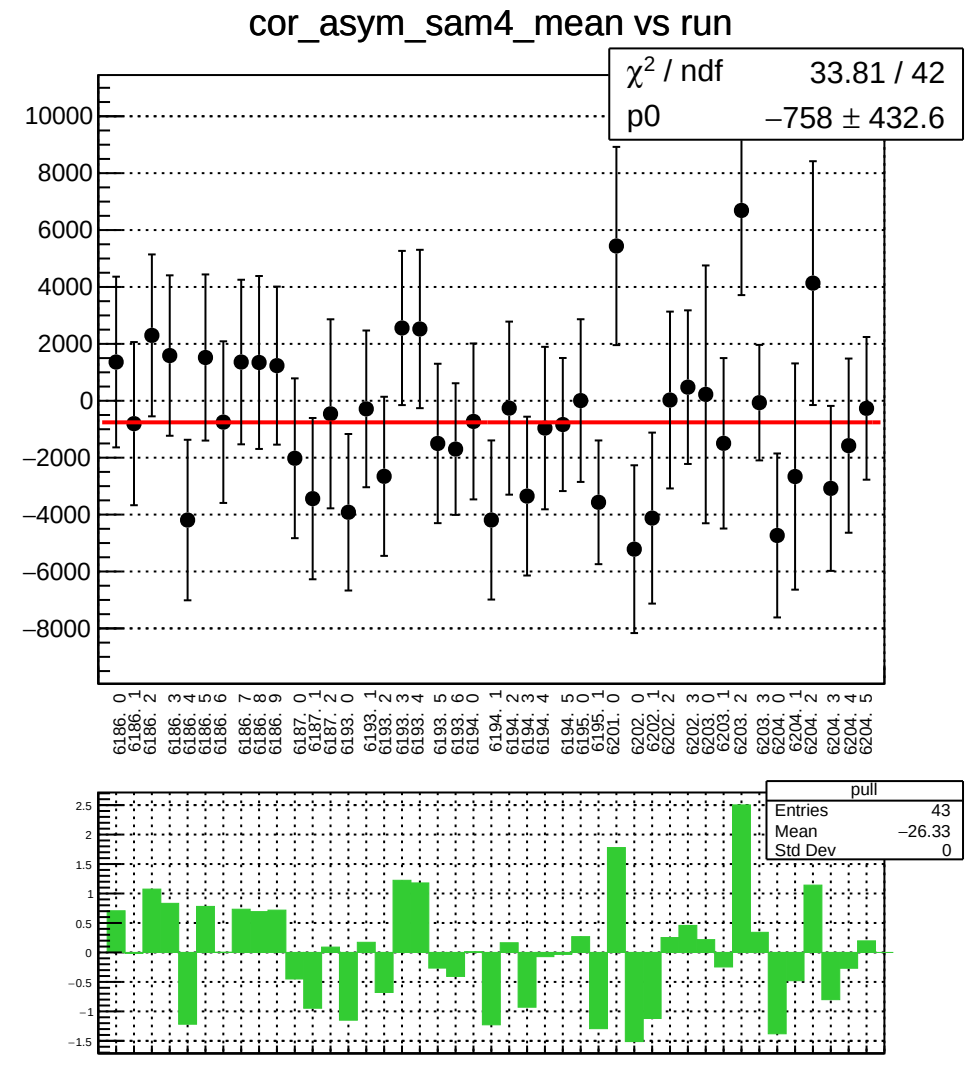

pull1D
Entries 43
Mean 0.02449
Std Dev 0.8864
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

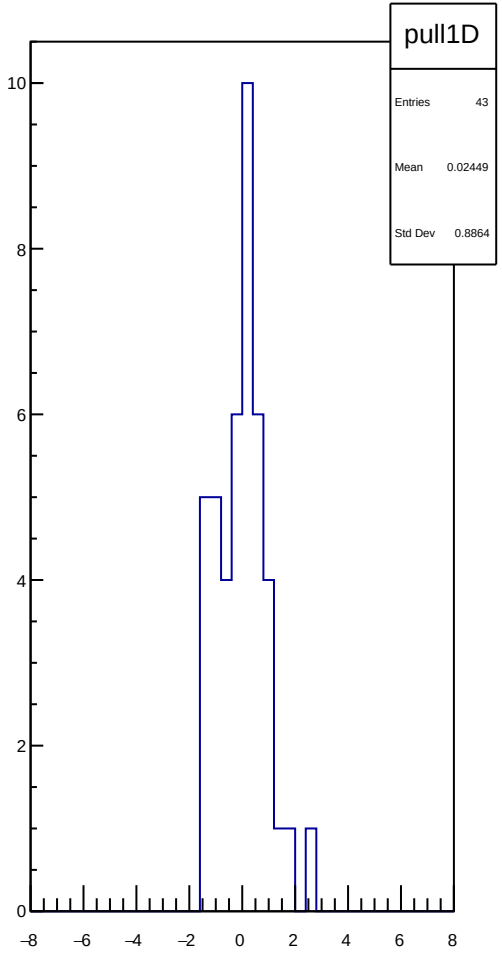

reg_asym_sam4_rms vs run
χ² / ndf 8116 / 42
p0 279.9 ± 0.3059
450
400
350
300
250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

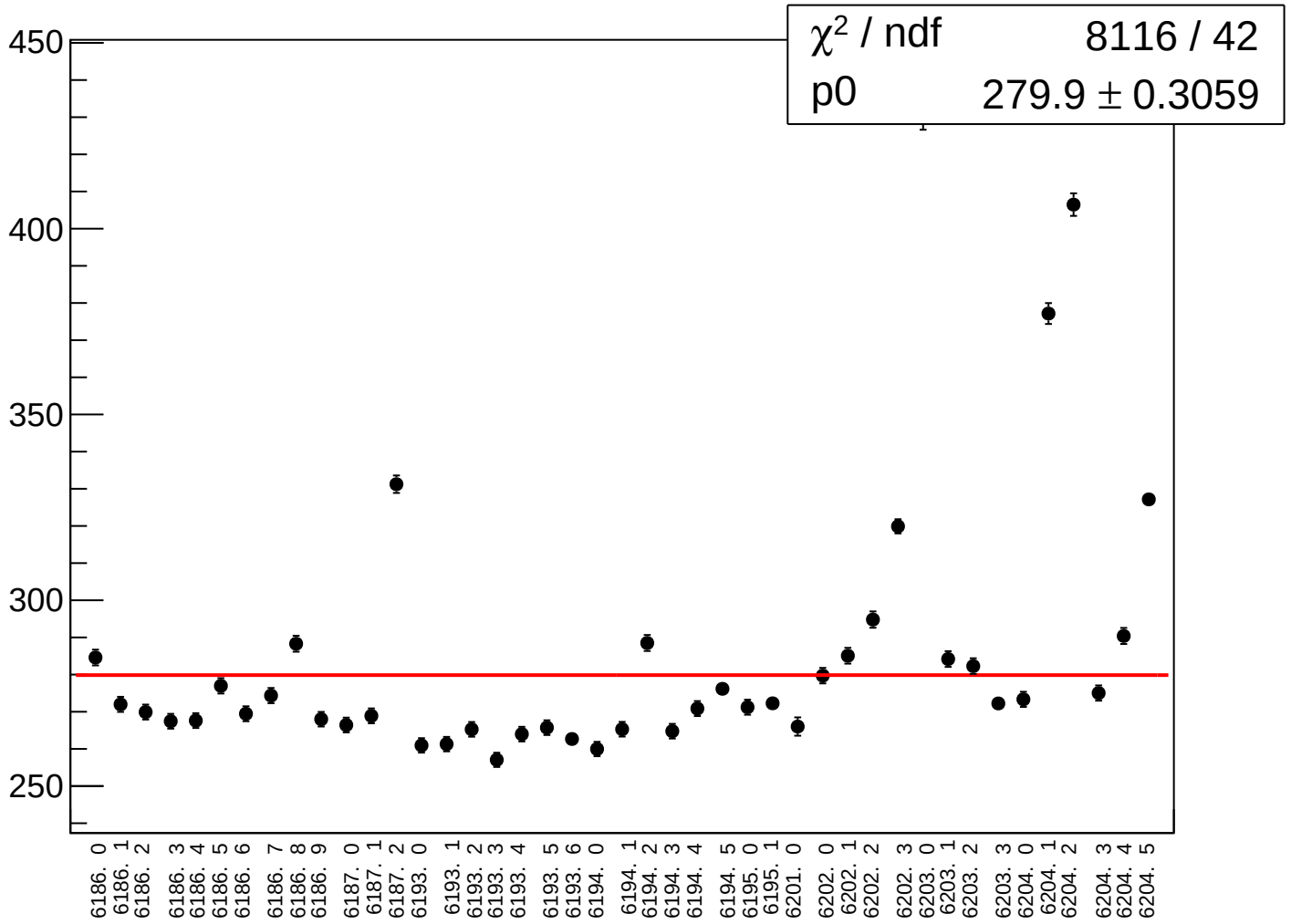

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 59 / 42
p0 1673 ± 5285
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −117.7
Std Dev 0
2
1
0
−1
−2

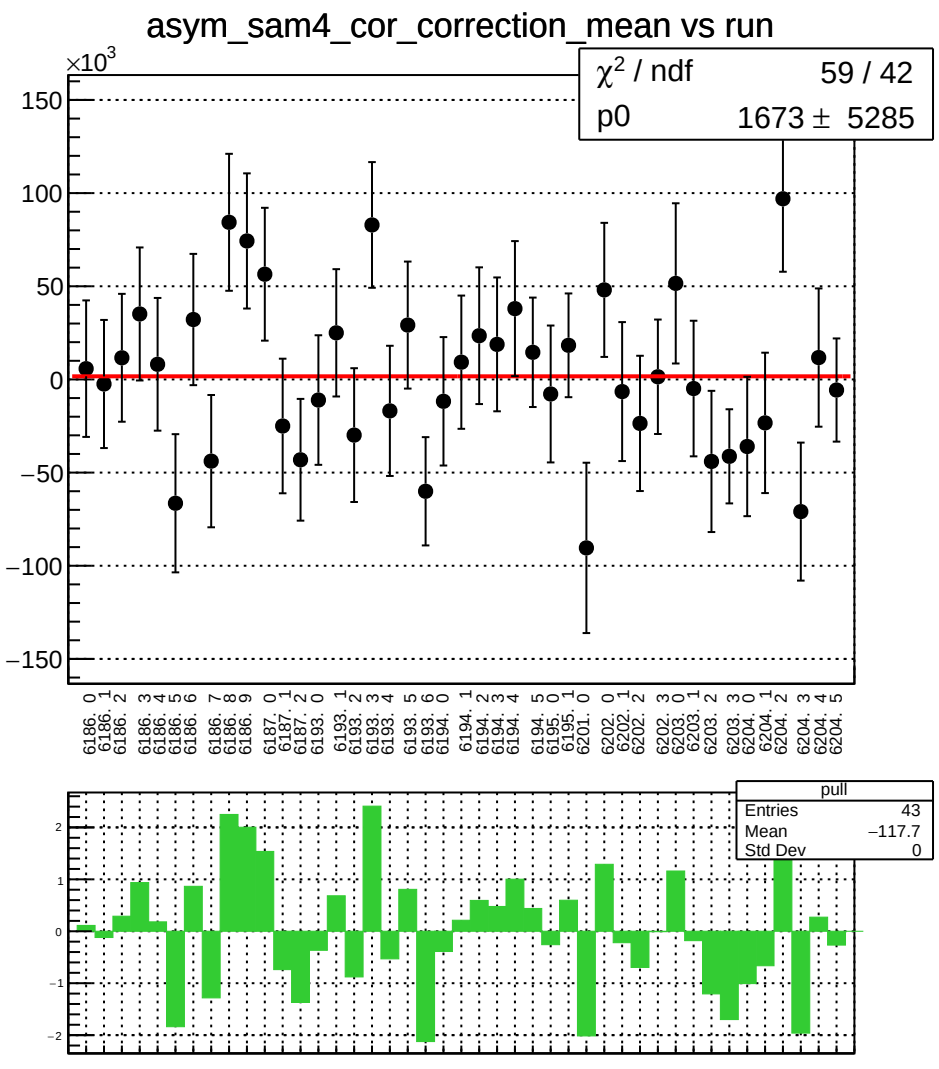

pull1D
Entries 43
Mean 0.01701
Std Dev 1.171
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

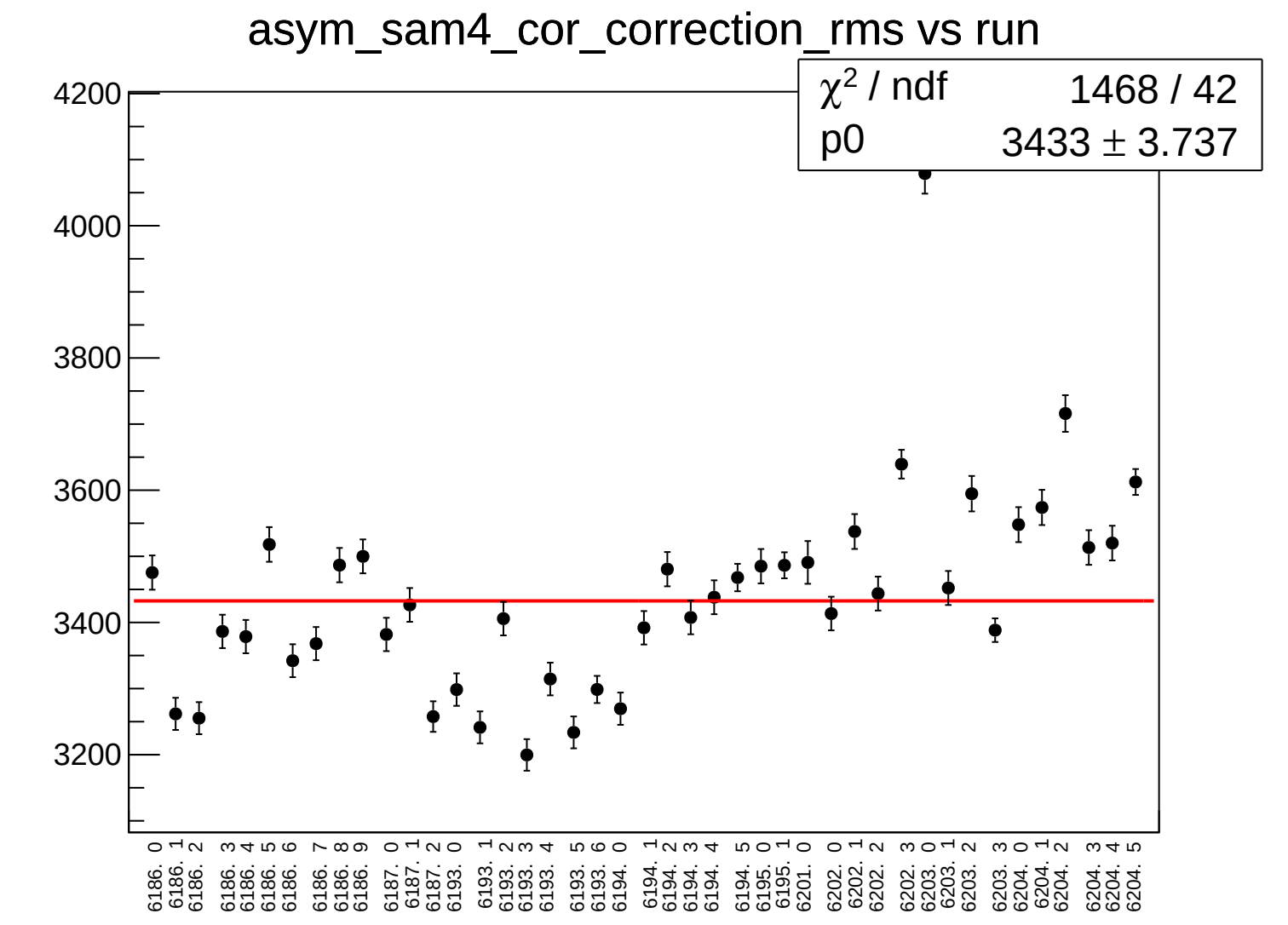

asym_sam4_reg_correction_rms vs run
χ² / ndf 1468 / 42
p0 3433 ± 3.737
4200
4000
3800
3600
3400
3200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

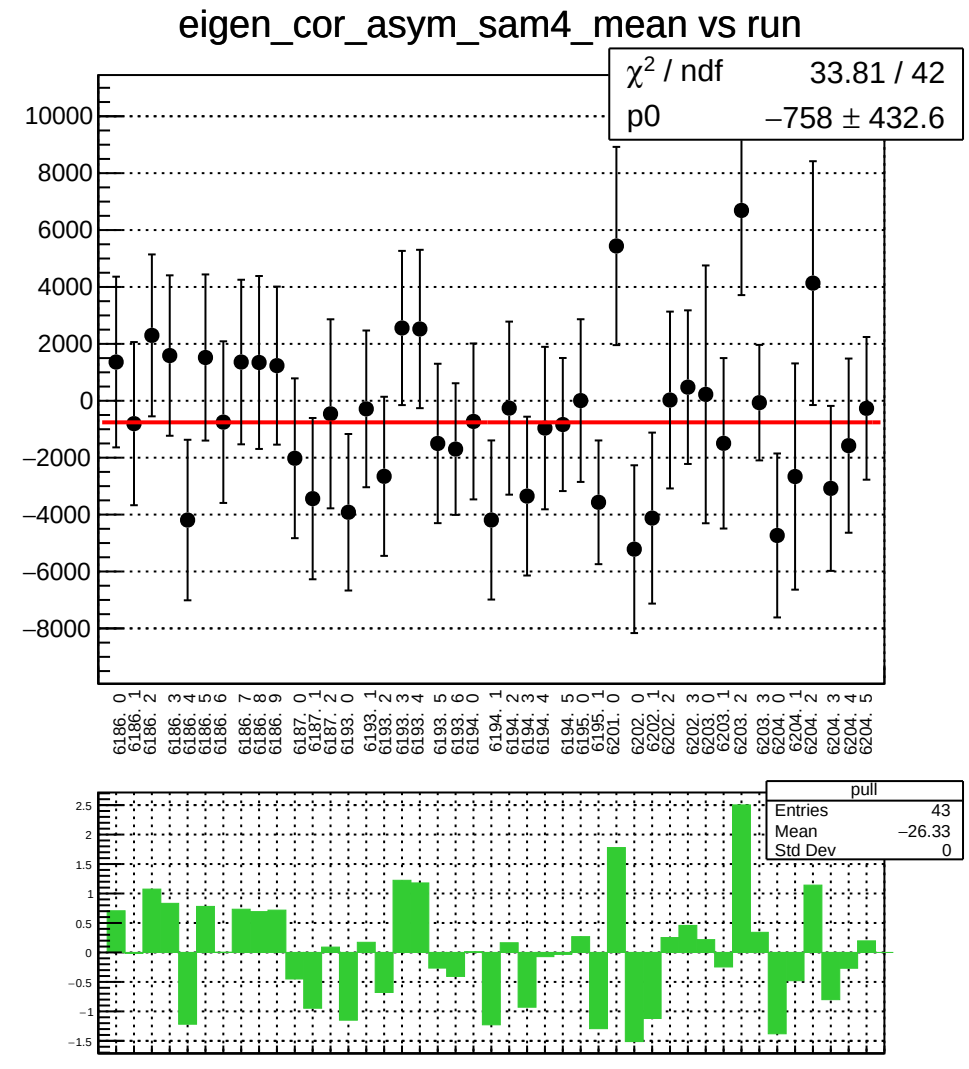

cor_asym_sam4_mean vs run
χ² / ndf 33.81 / 42
p0 −758 ± 432.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −26.33
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

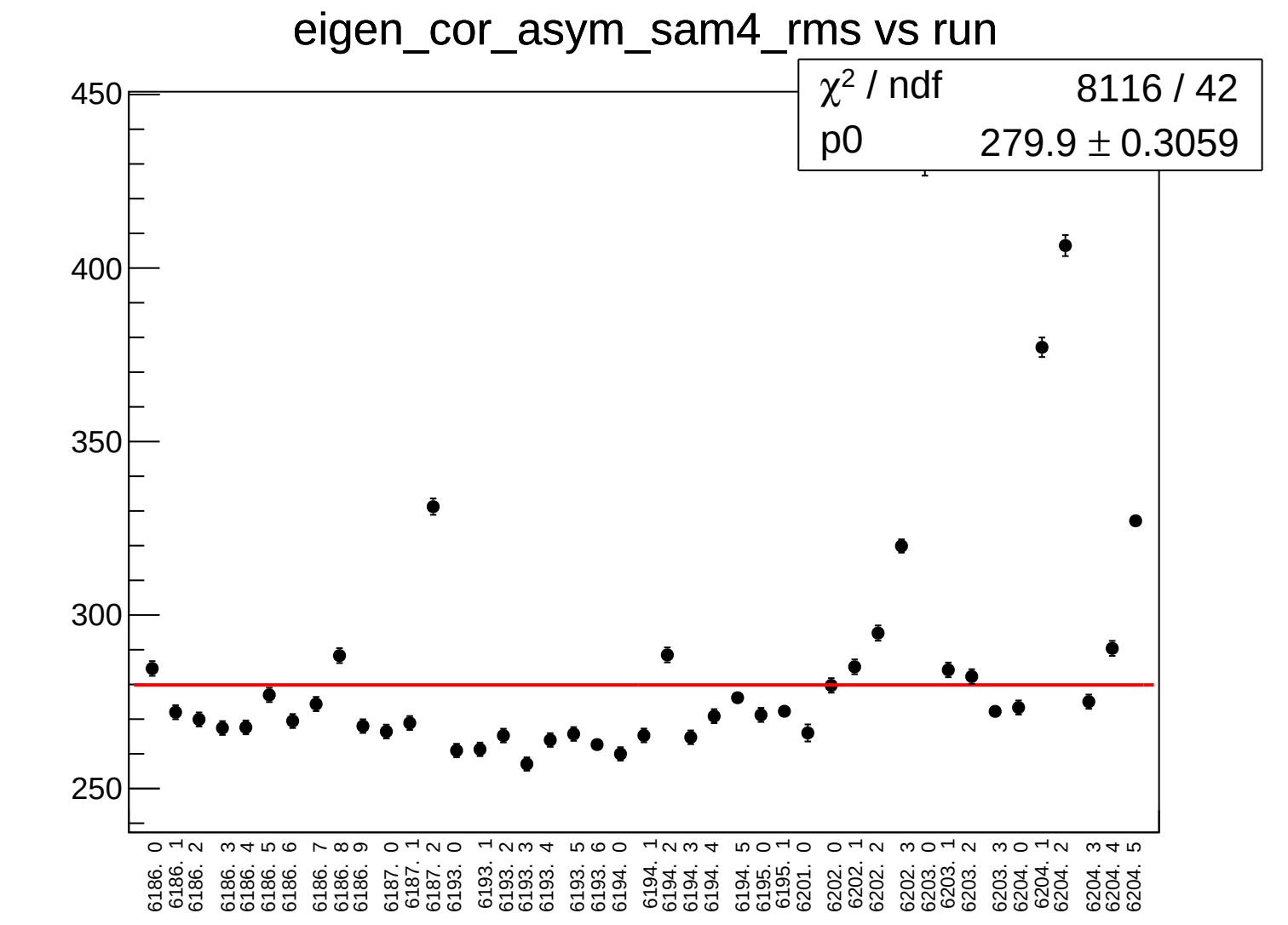

pull1D
Entries 43
Mean 0.02449
Std Dev 0.8864
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

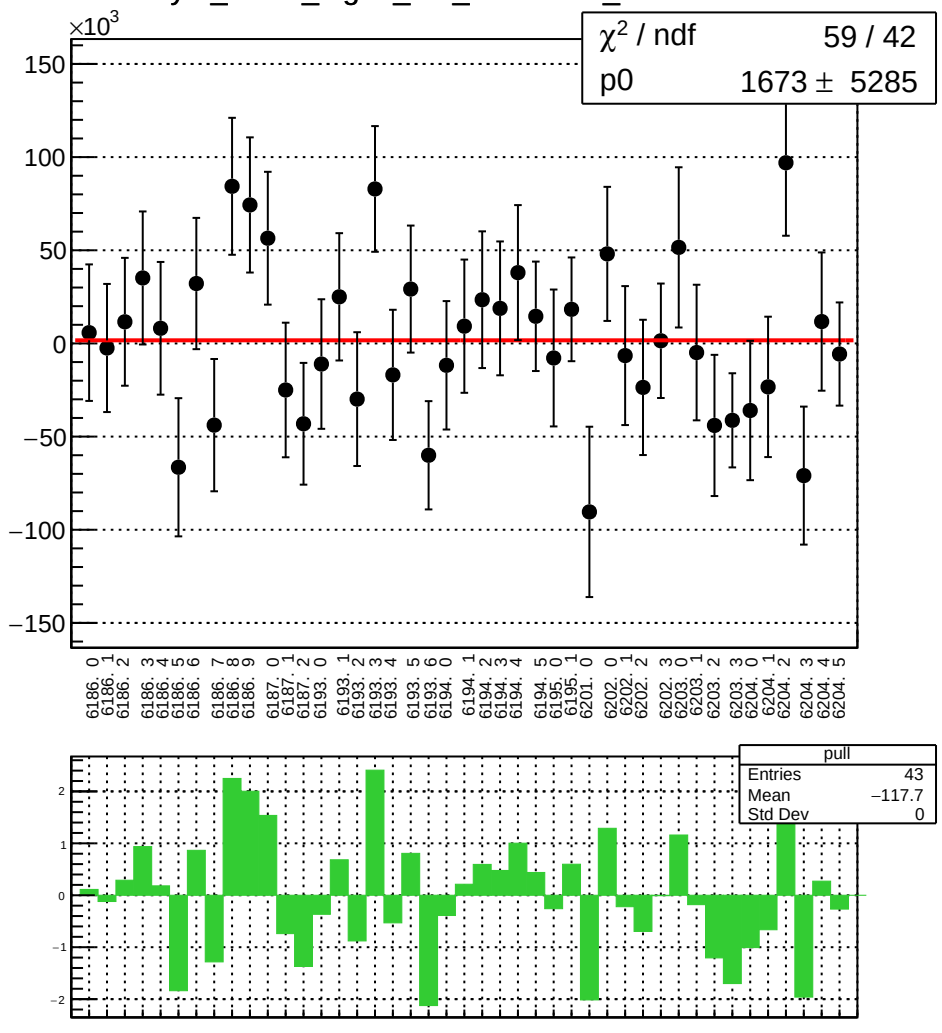

cor_asym_sam4_rms vs run
χ² / ndf 8116 / 42
p0 279.9 ± 0.3059
450
400
350
300
250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

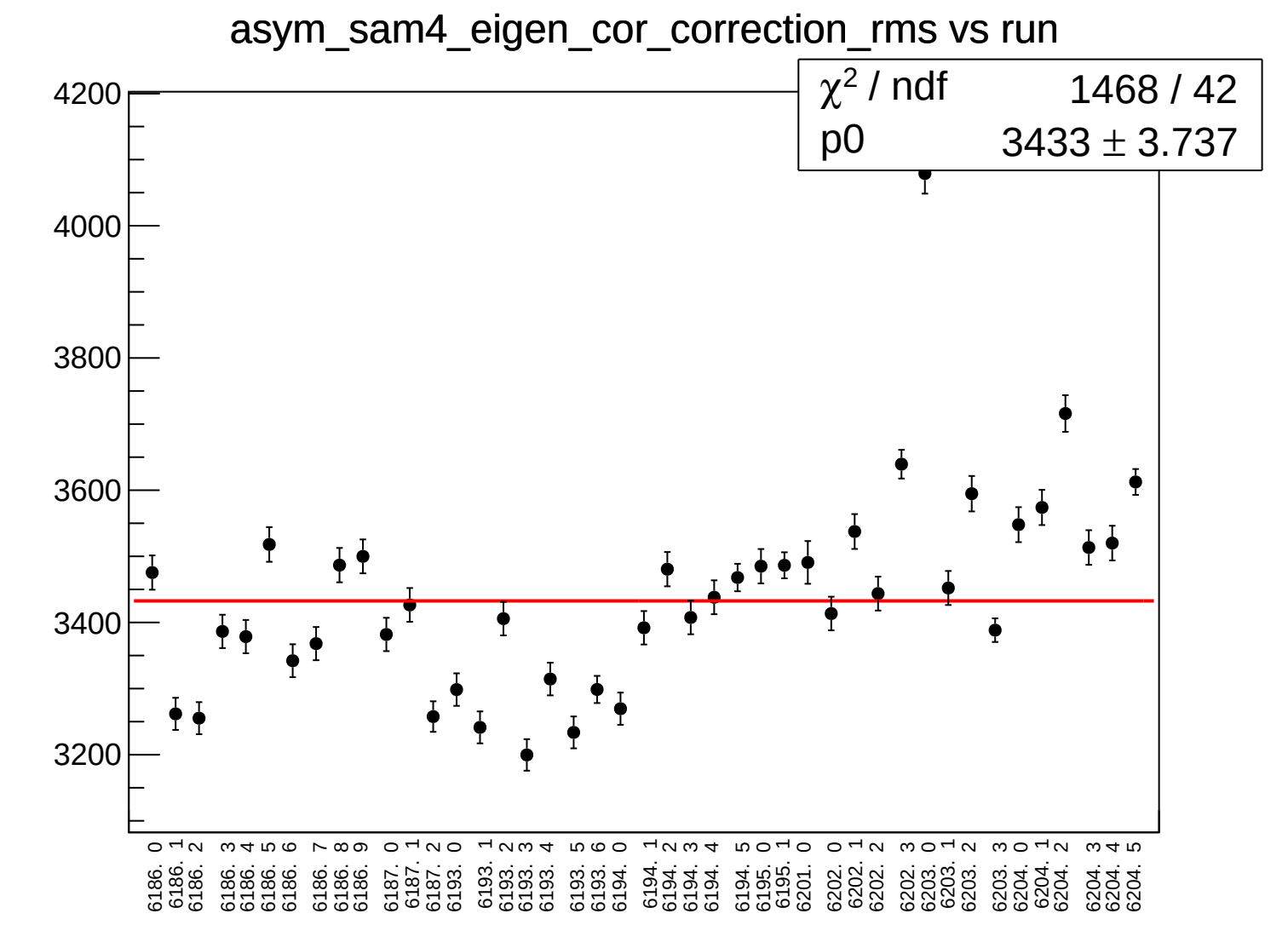

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 59 / 42
p0 1673 ± 5285
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −117.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01701
Std Dev 1.171
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

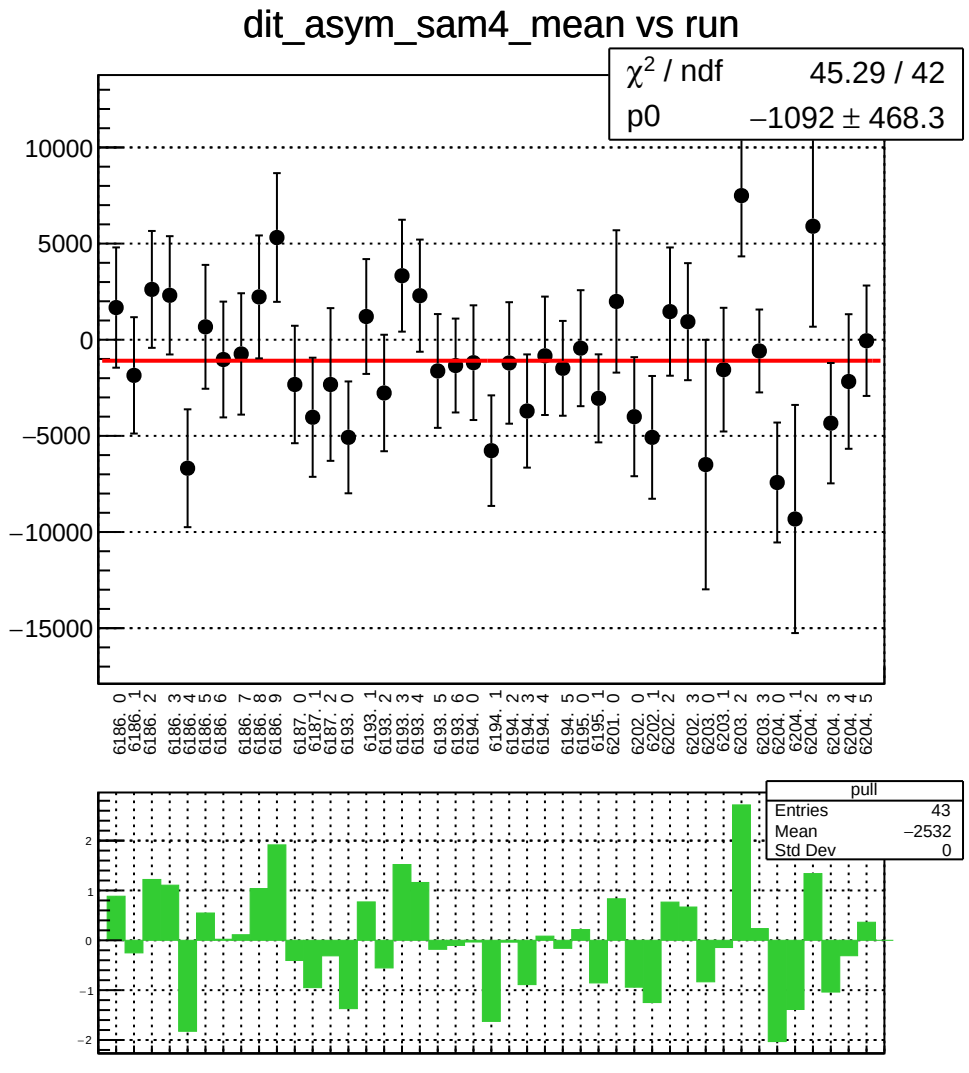

asym_sam4_cor_correction_rms vs run
χ² / ndf 1468 / 42
p0 3433 ± 3.737
4200
4000
3800
3600
3400
3200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

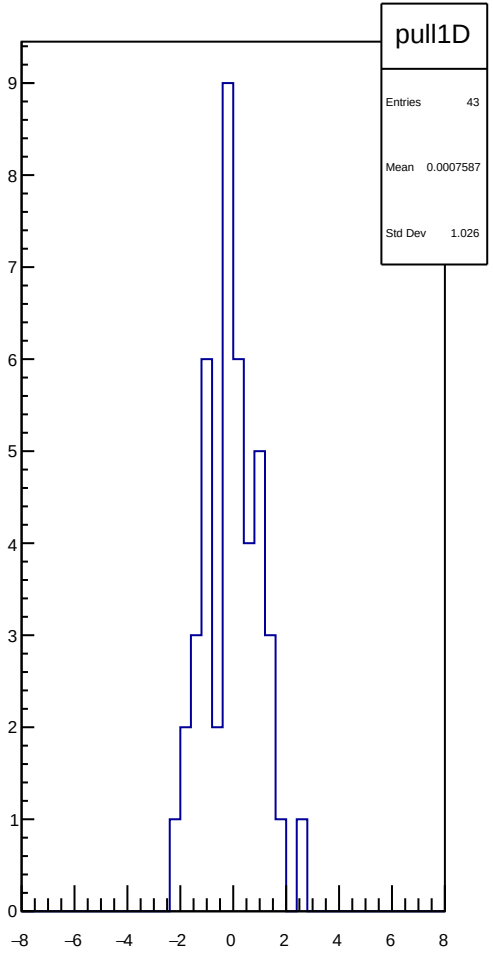

eigen_cor_asym_sam4_mean vs run
χ² / ndf 33.81 / 42
p0 −758 ± 432.6
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −26.33
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.02449
Std Dev 0.8864
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

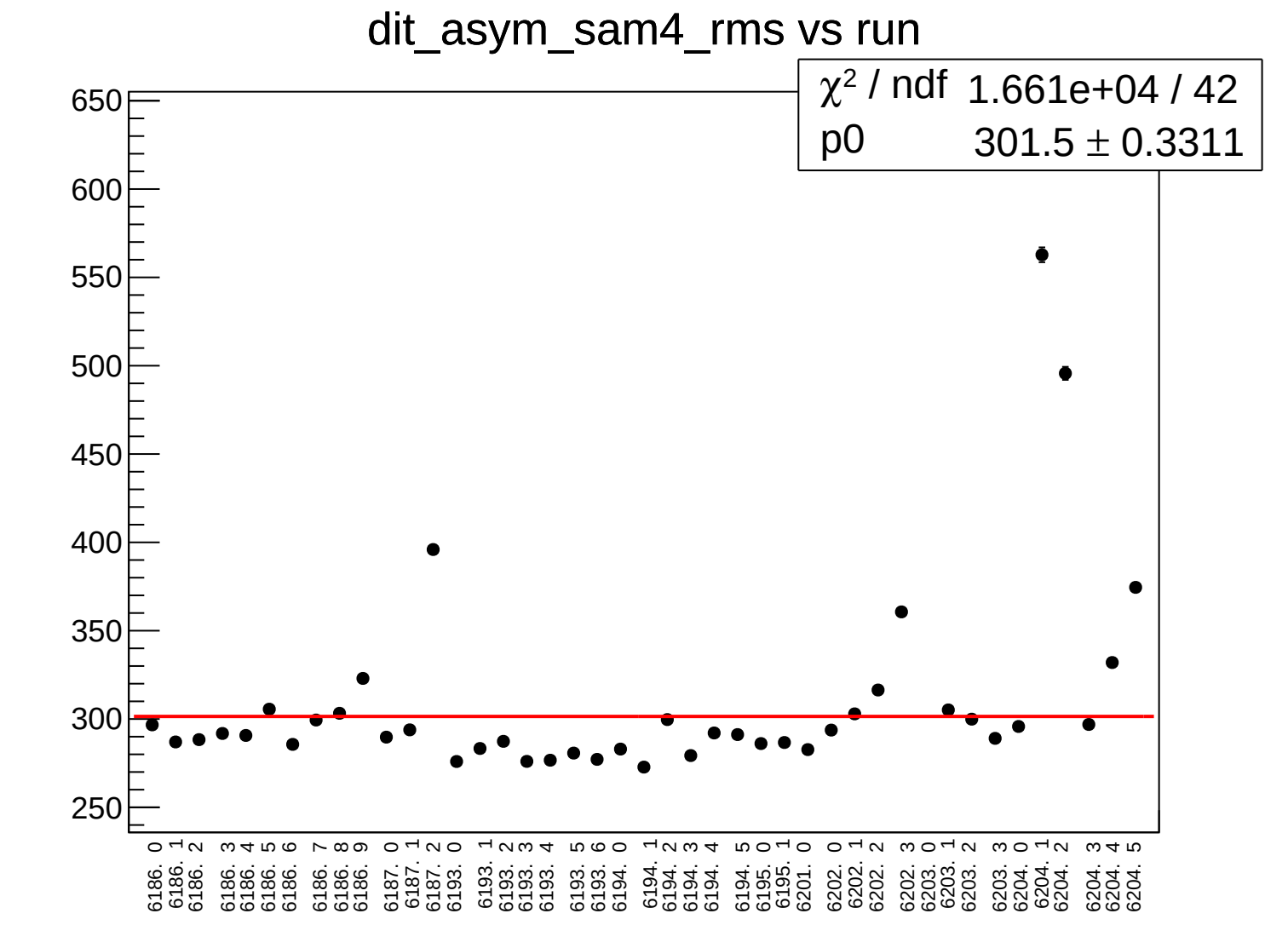

eigen_cor_asym_sam4_rms vs run
χ² / ndf 8116 / 42
p0 279.9 ± 0.3059
450
400
350
300
250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

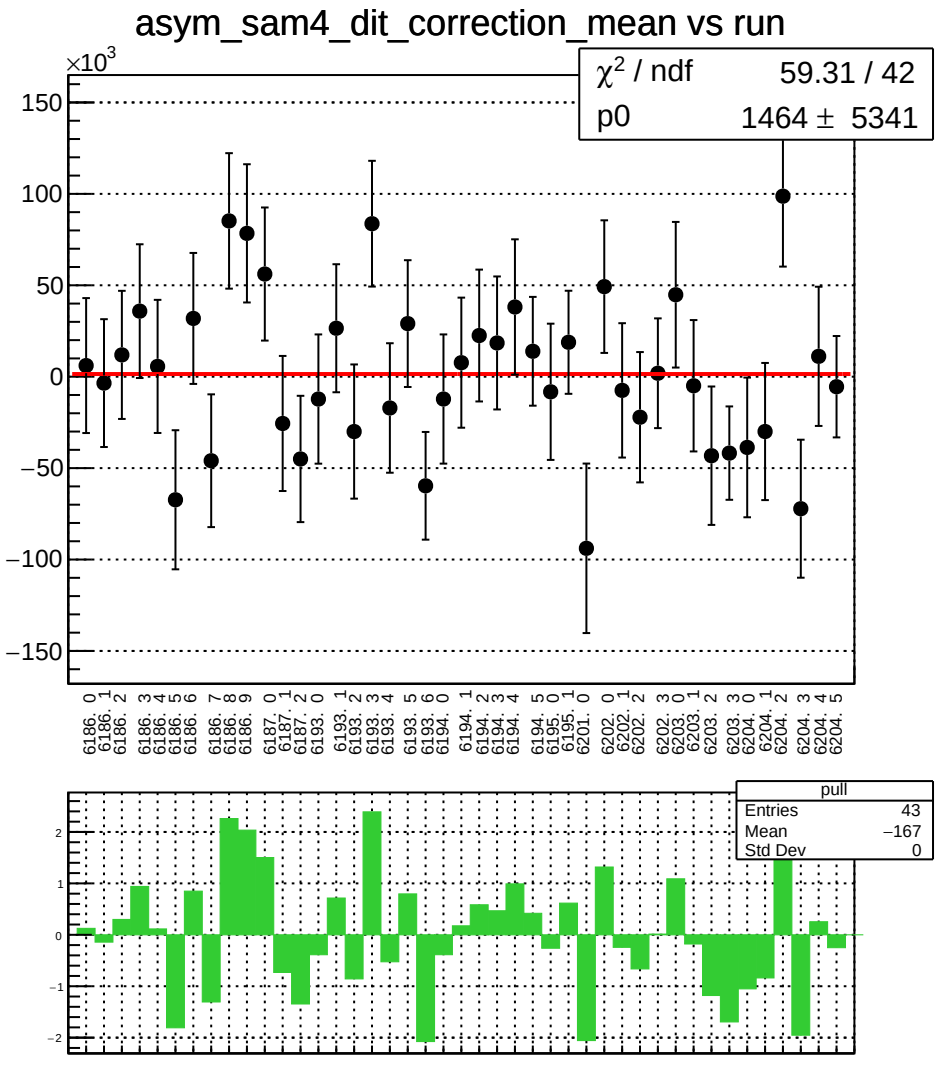

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 59 / 42
p0 1673 ± 5285
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −117.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01701
Std Dev 1.171
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

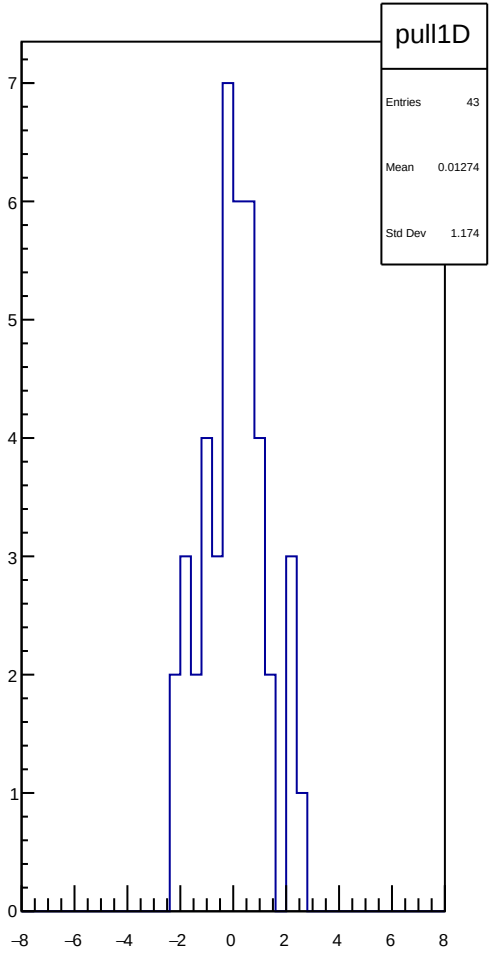

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 1468 / 42
p0 3433 ± 3.737
4200
4000
3800
3600
3400
3200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

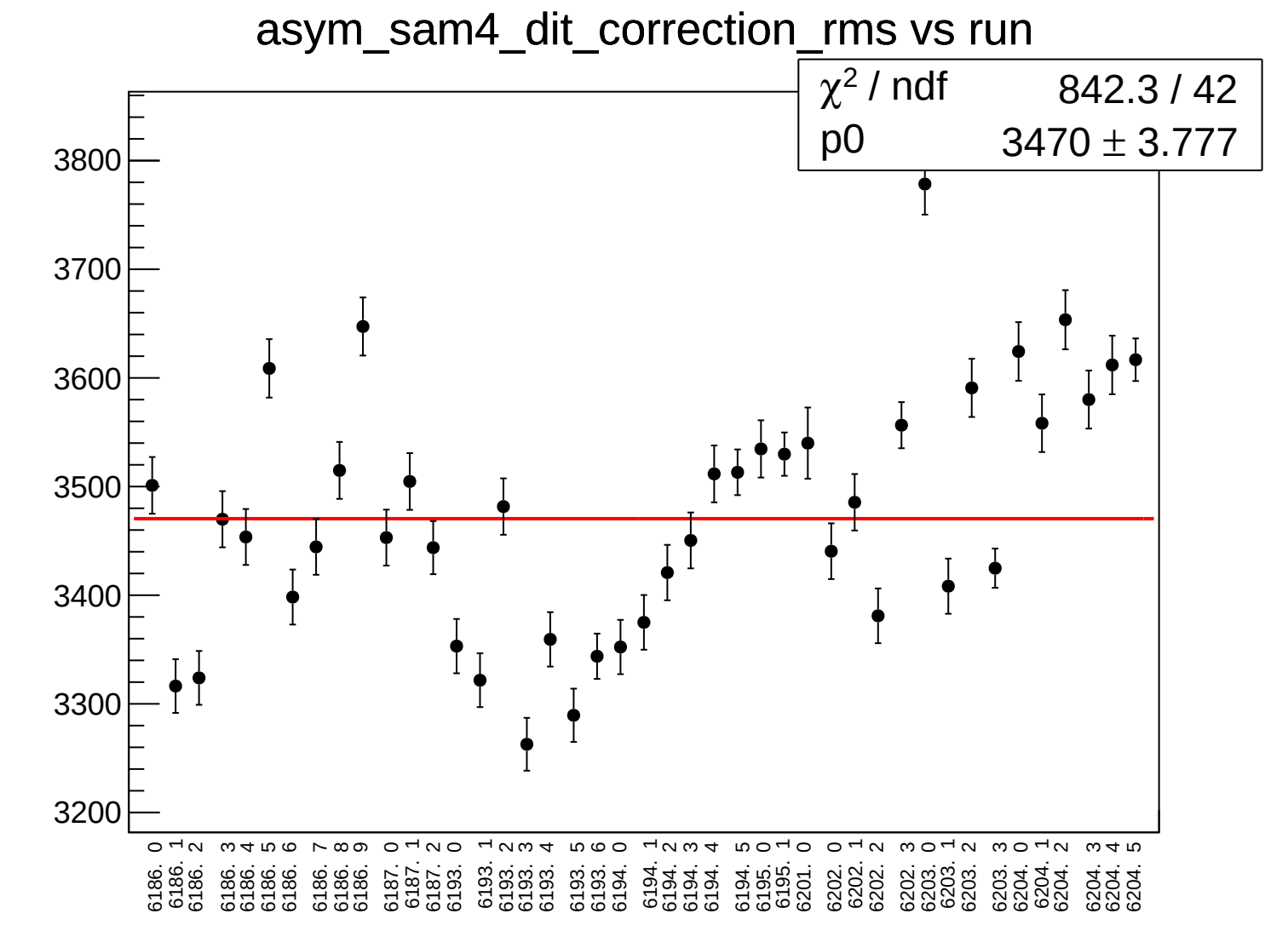

dit_asym_sam4_mean vs run
χ² / ndf 45.29 / 42
p0 −1092 ± 468.3
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −2532
Std Dev 0
2
1
0
−1
−2

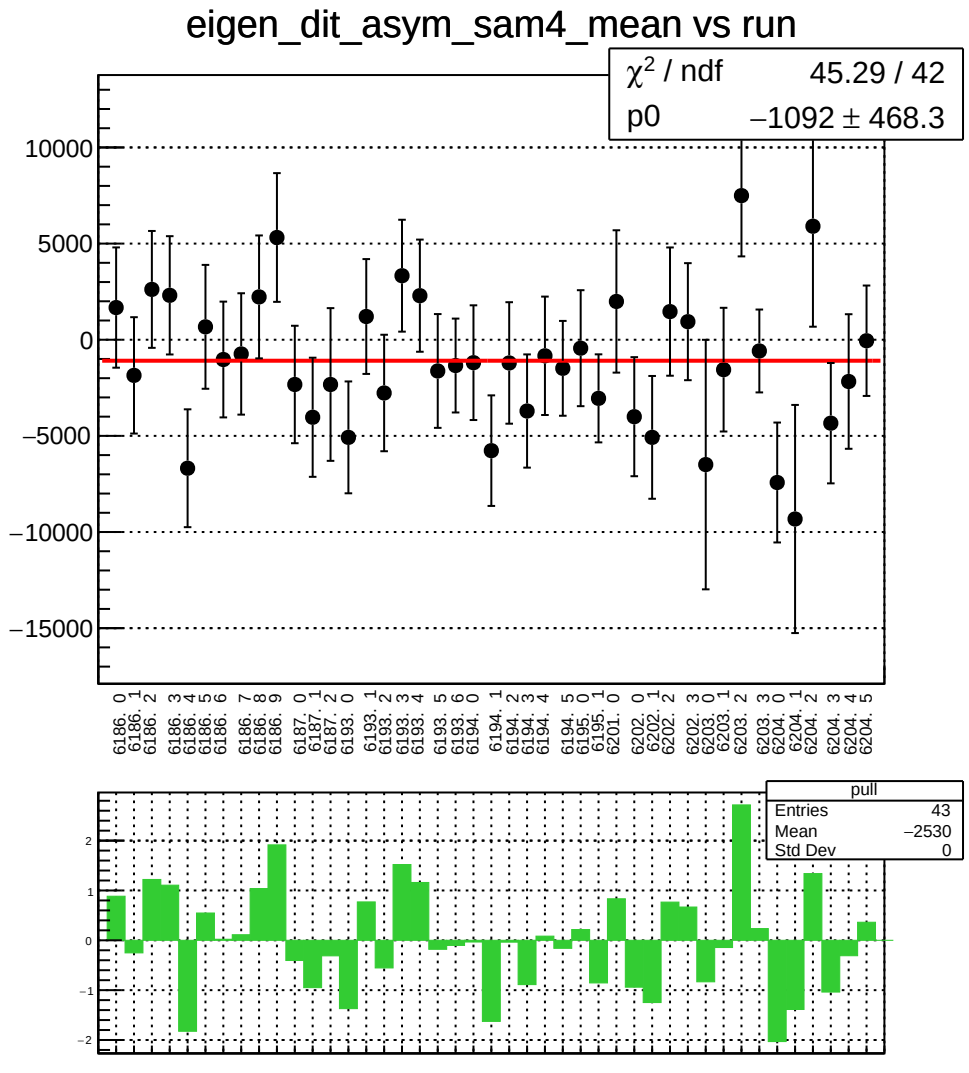

pull1D
Entries 43
Mean 0.0007587
Std Dev 1.026
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

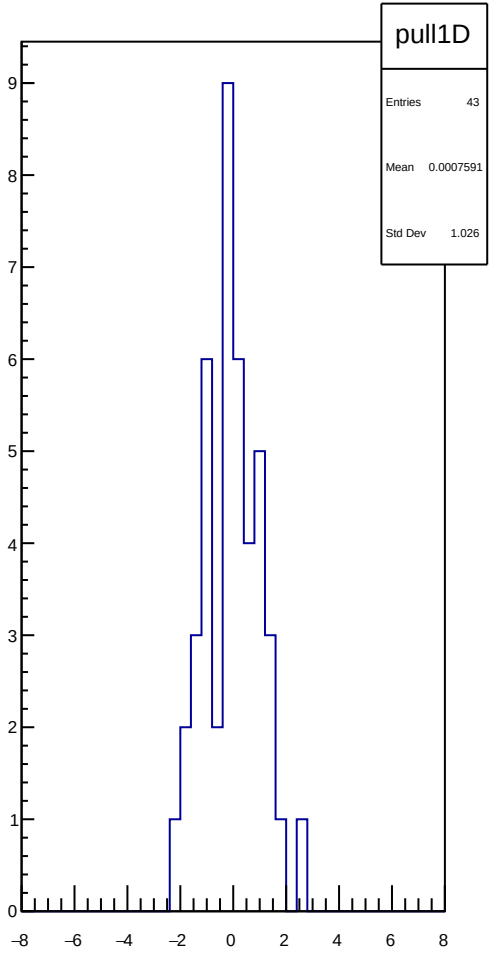

dit_asym_sam4_rms vs run
χ² / ndf 1.661e+04 / 42
p0 301.5 ± 0.3311
650
600
550
500
450
400
350
300
250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

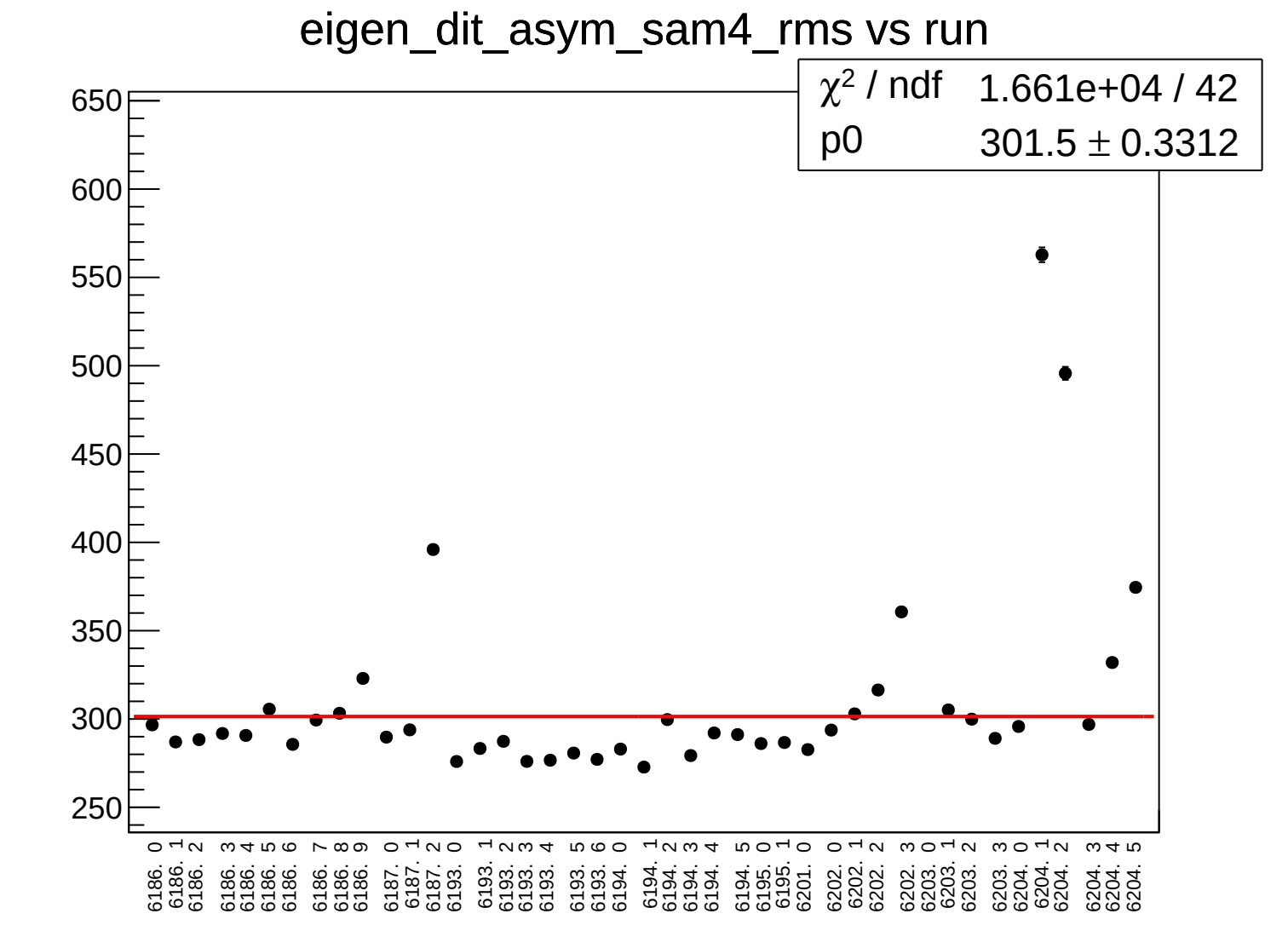

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 59.31 / 42
p0 1464 ± 5341
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −167
Std Dev 0
2
1
0
−1
−2

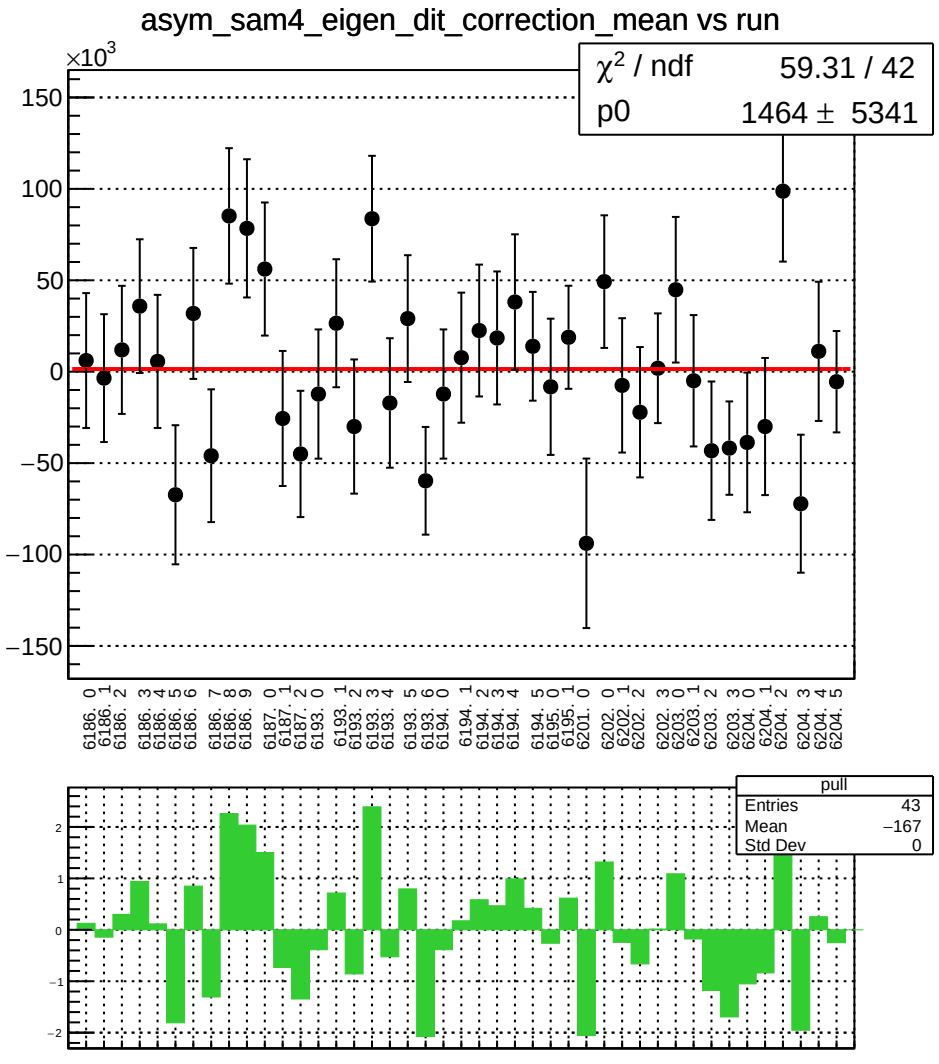

pull1D
Entries 43
Mean 0.01274
Std Dev 1.174
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

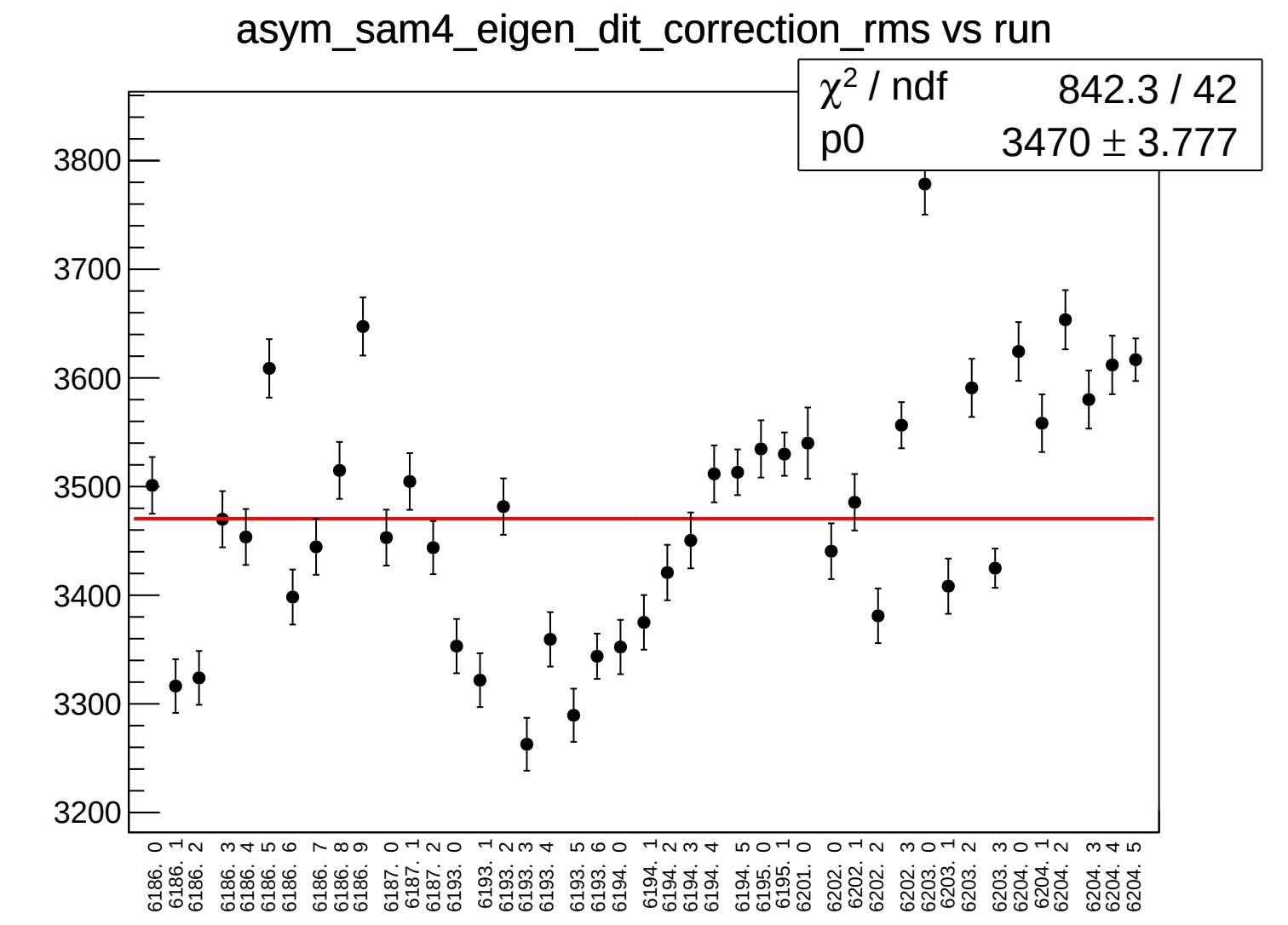

asym_sam4_dit_correction_rms vs run
χ² / ndf 842.3 / 42
p0 3470 ± 3.777
3800
3700
3600
3500
3400
3300
3200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

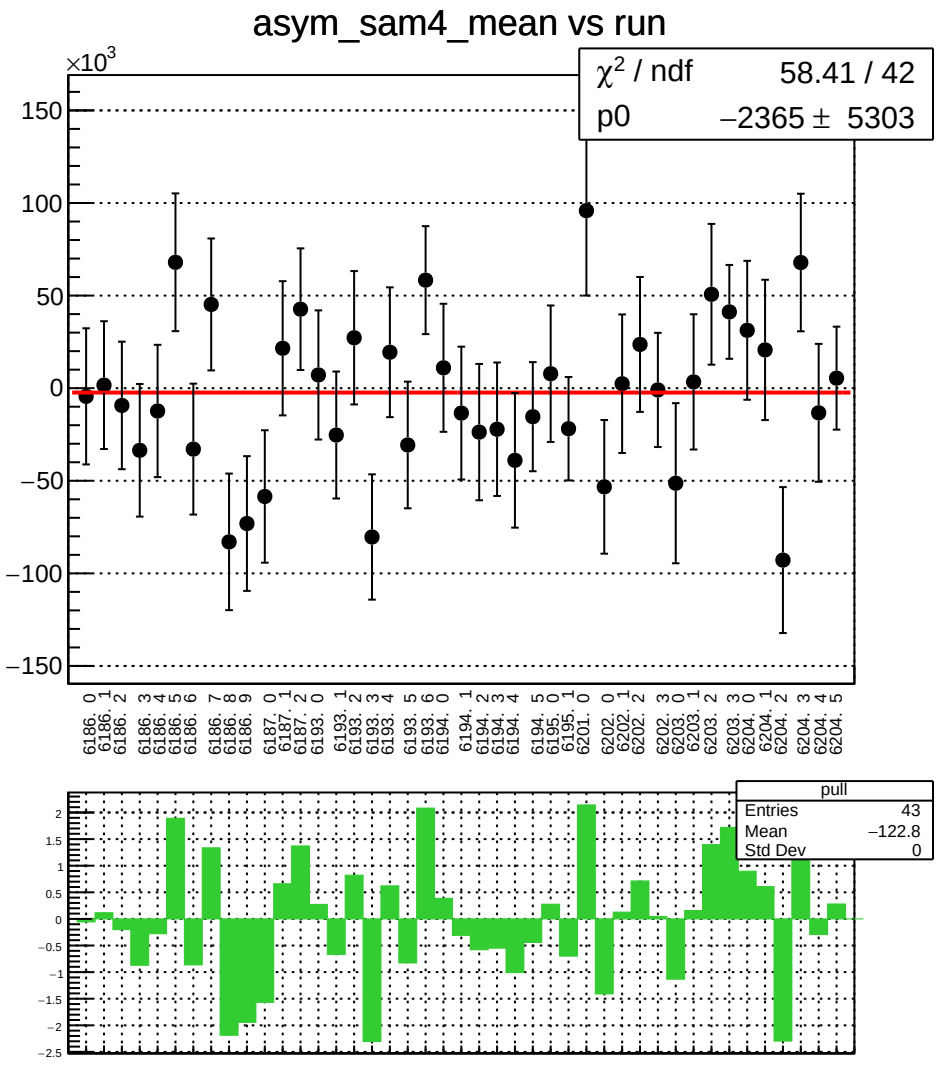

eigen_dit_asym_sam4_mean vs run
χ² / ndf 45.29 / 42
p0 −1092 ± 468.3
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −2530
Std Dev 0
2
1
0
−1
−2

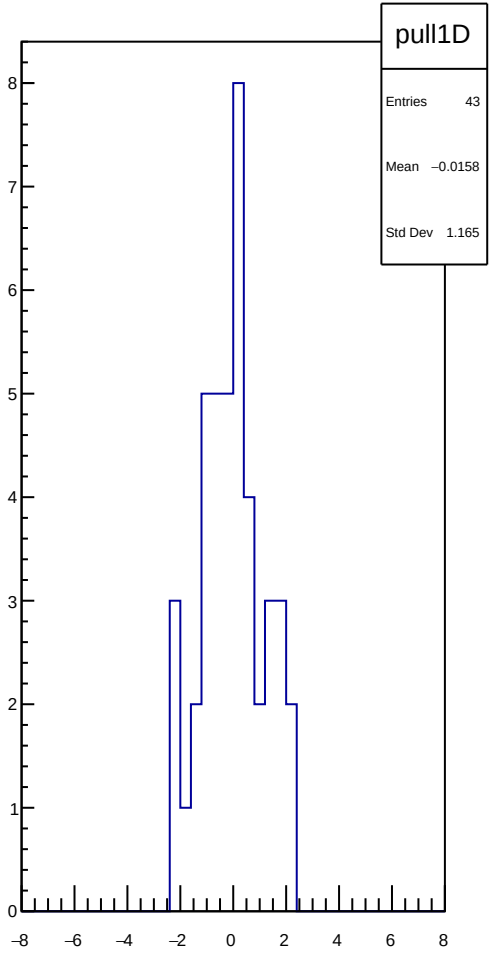

pull1D
Entries 43
Mean 0.0007591
Std Dev 1.026
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

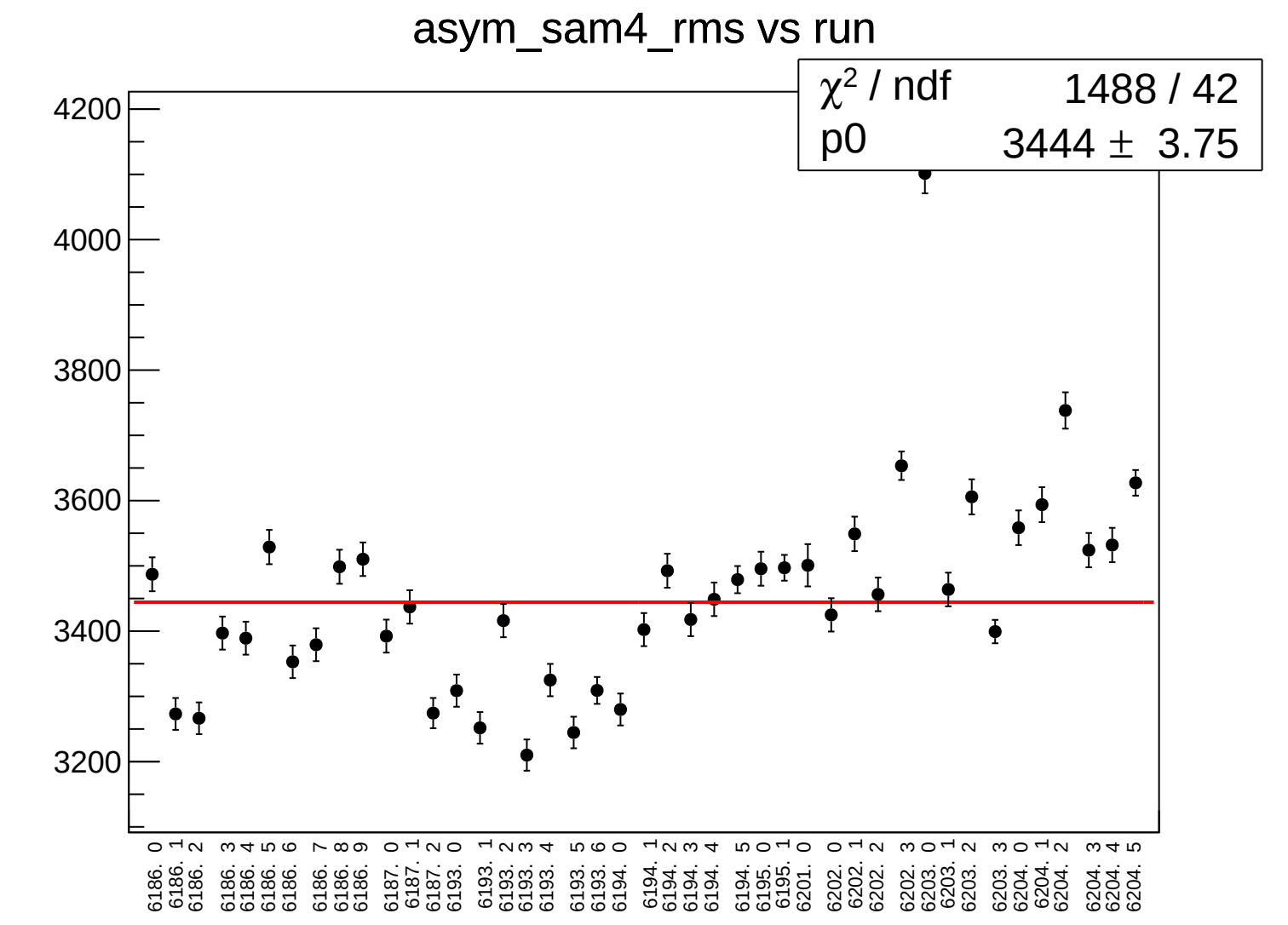

eigen_dit_asym_sam4_rms vs run
χ² / ndf 1.661e+04 / 42
p0 301.5 ± 0.3312
650
600
550
500
450
400
350
300
250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

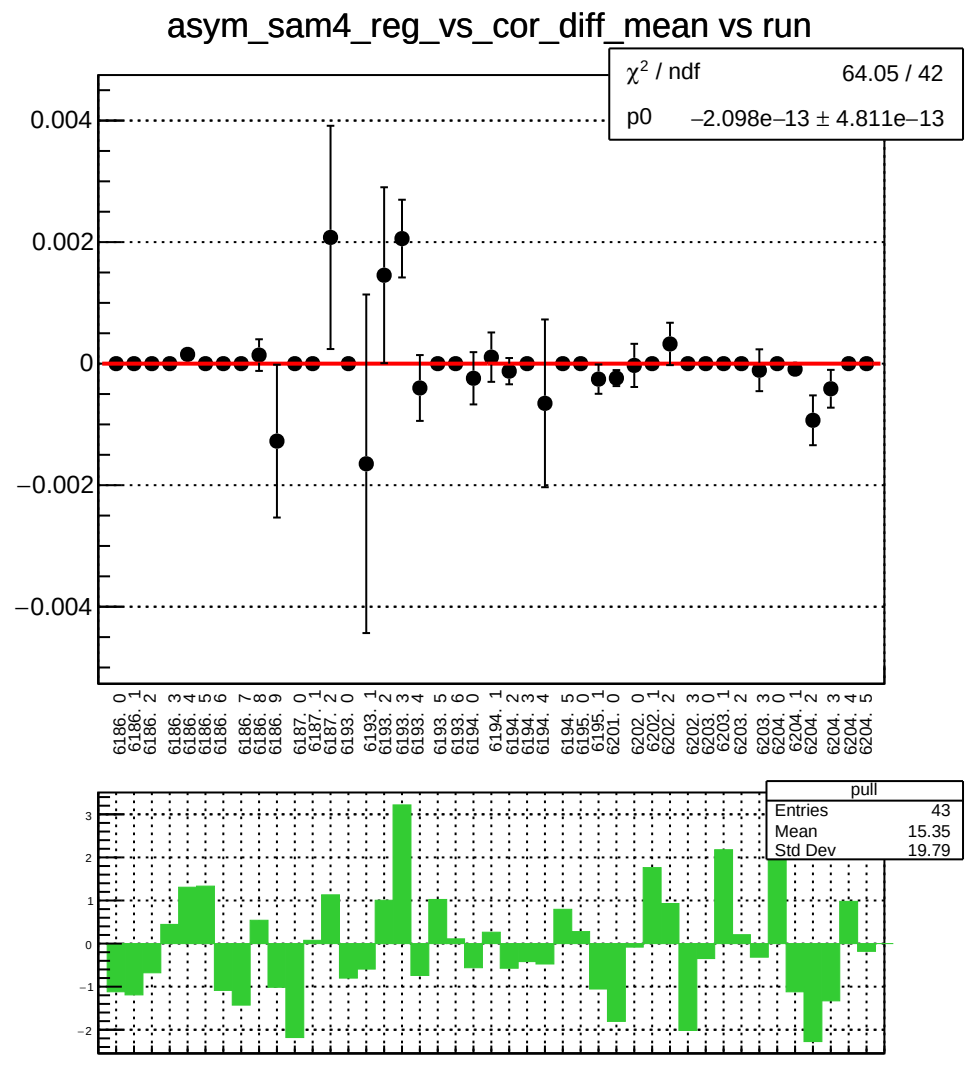

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 59.31 / 42
p0 1464 ± 5341
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −167
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01274
Std Dev 1.174
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

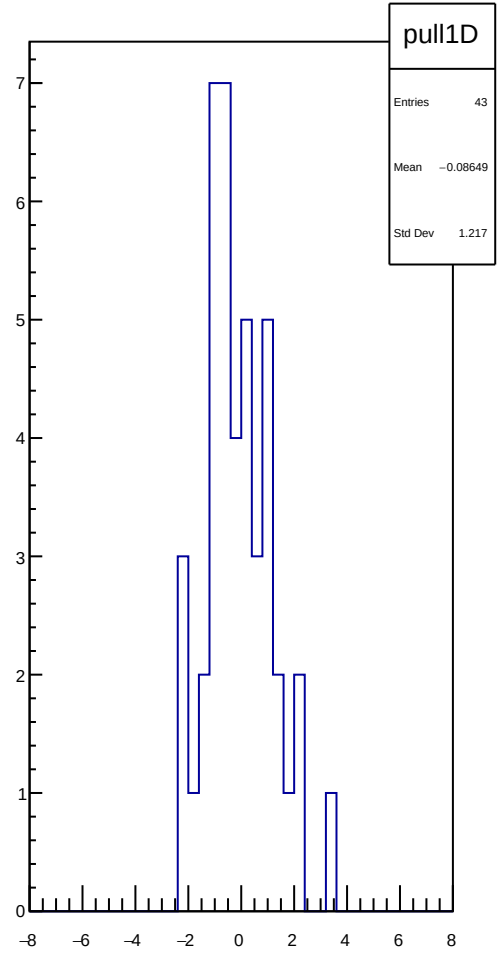

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 842.3 / 42
p0 3470 ± 3.777
3800
3700
3600
3500
3400
3300
3200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

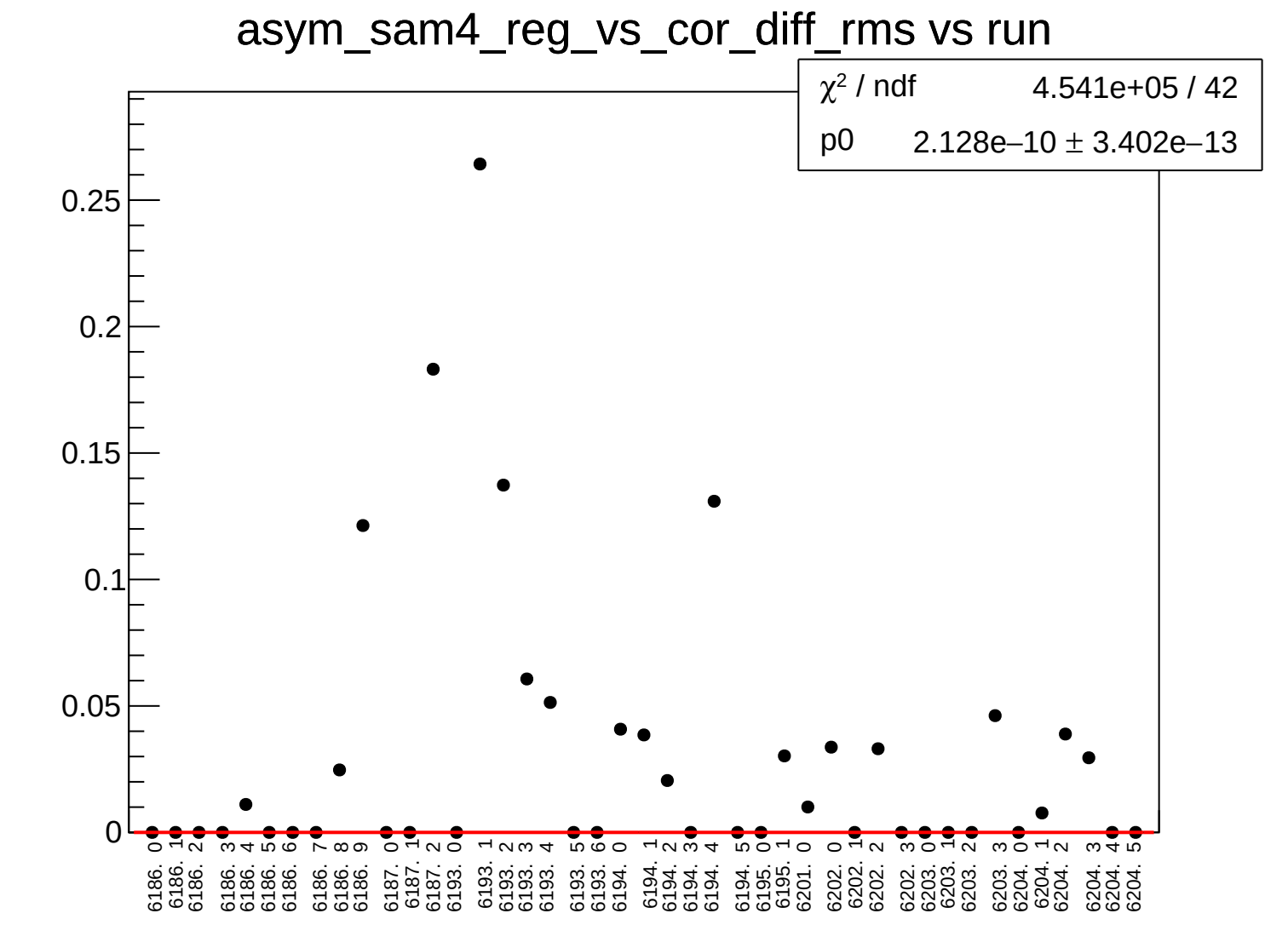

asym_sam4_mean vs run
×10^3
χ² / ndf 58.41 / 42
p0 −2365 ± 5303
150
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −122.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

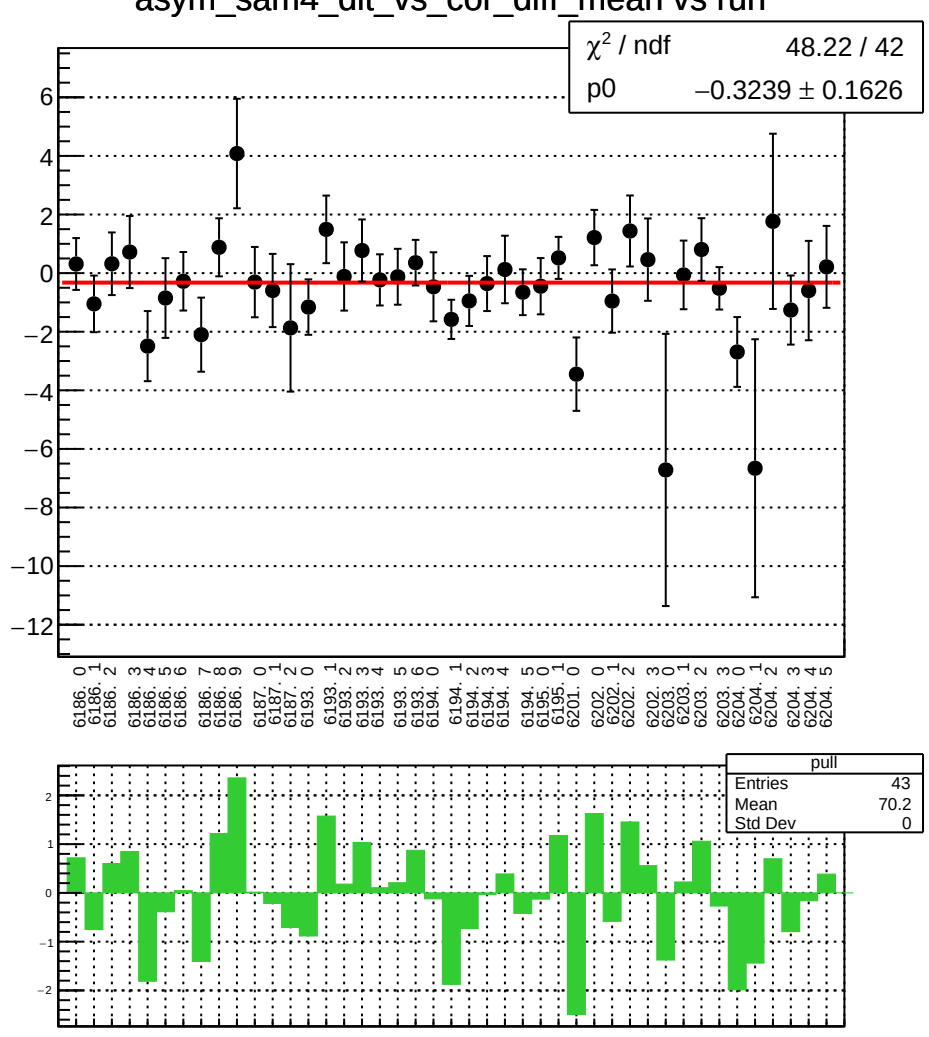

pull1D
Entries 43
Mean −0.0158
Std Dev 1.165
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

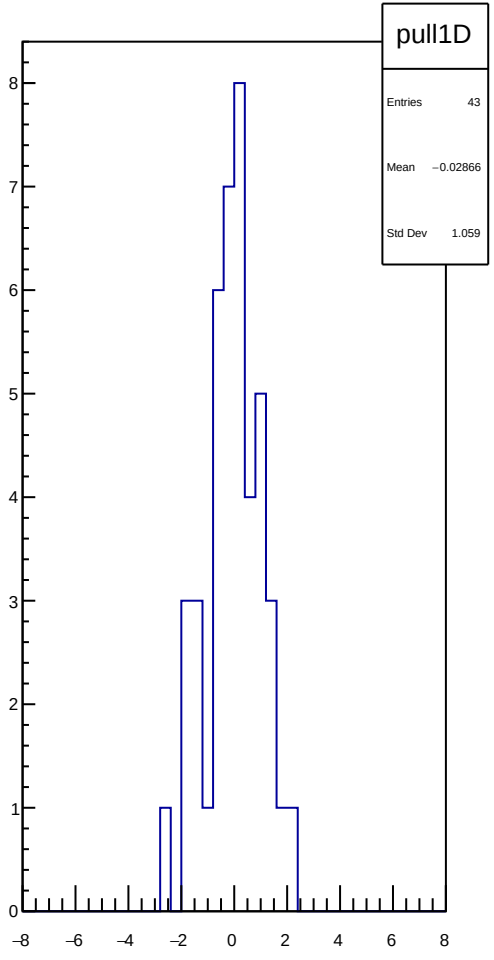

asym_sam4_rms vs run
χ² / ndf 1488 / 42
p0 3444 ± 3.75
4200
4000
3800
3600
3400
3200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

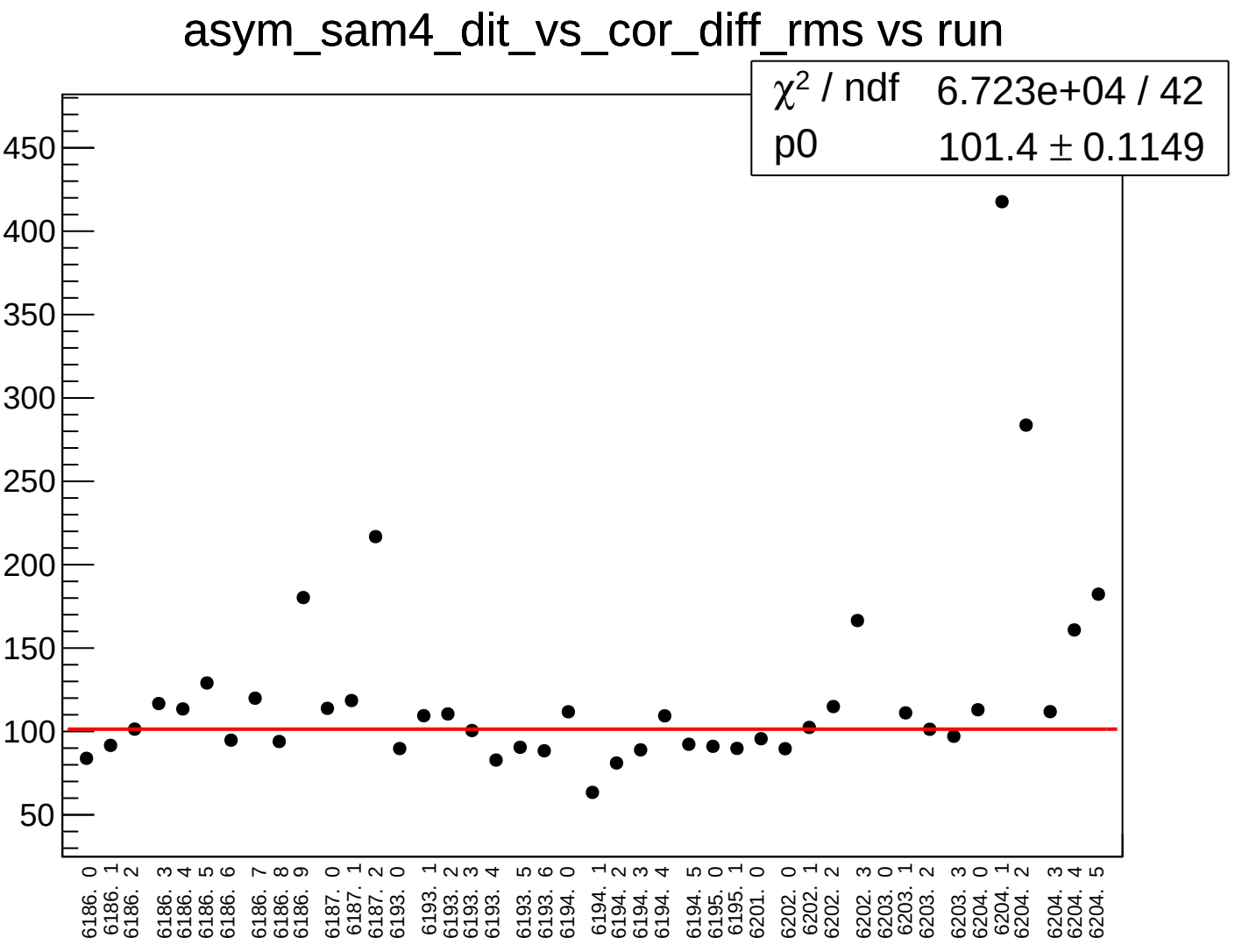

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 64.05 / 42
p0 −2.098e−13 ± 4.811e−13
0.004
0.002
0
−0.002
−0.004
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 15.35
Std Dev 19.79
3
2
1
0
−1
−2

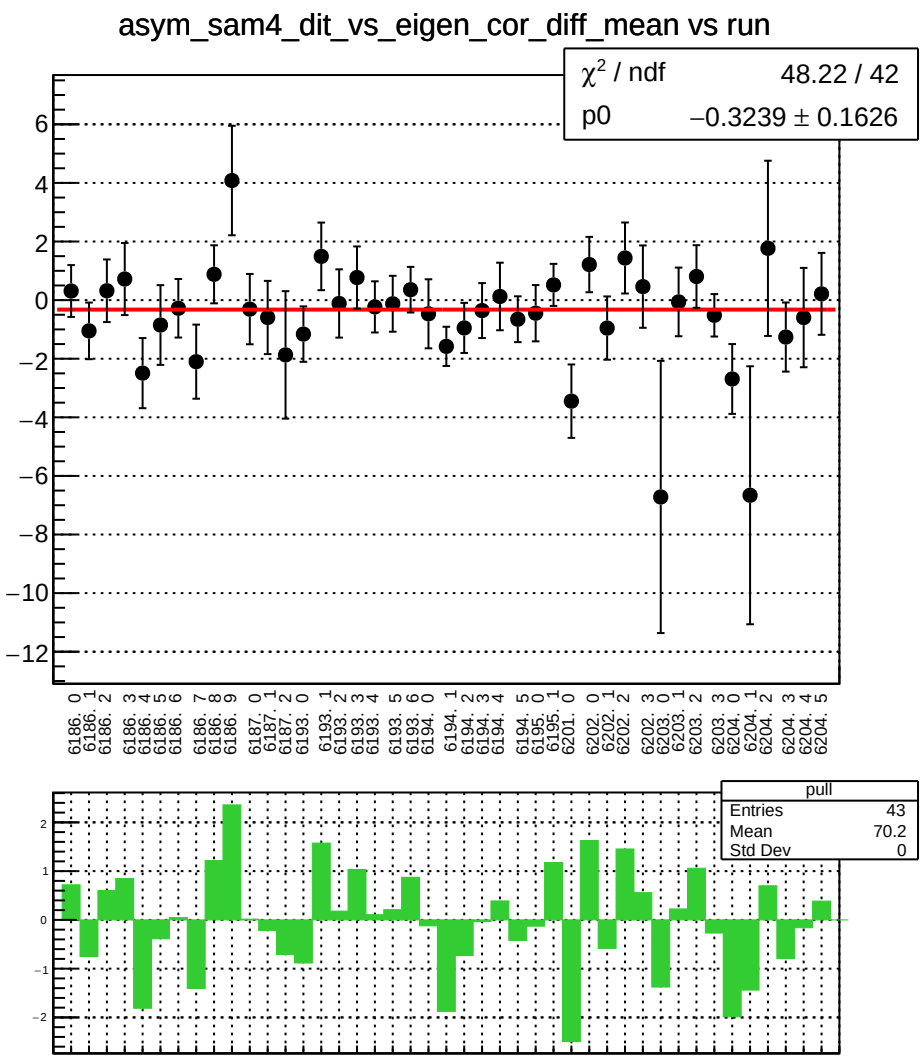

pull1D
Entries 43
Mean −0.08649
Std Dev 1.217
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

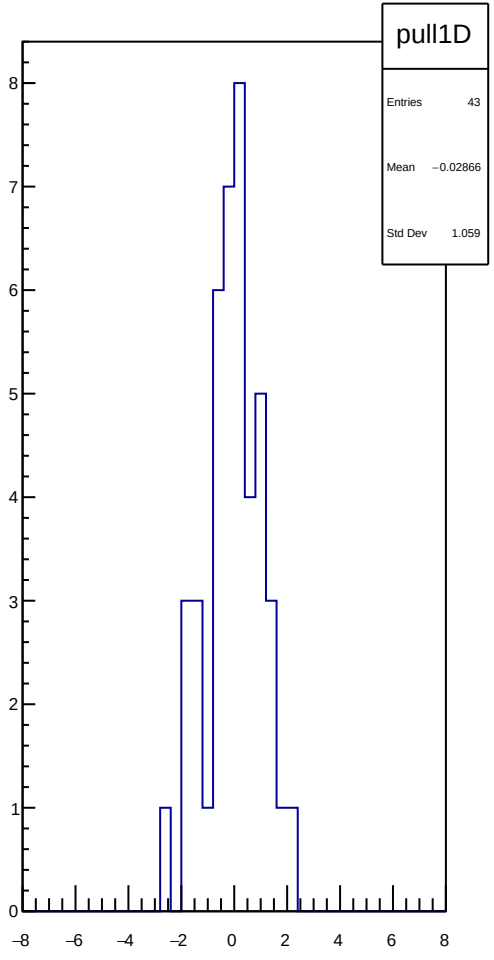

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 4.541e+05 / 42
p0 2.128e−10 ± 3.402e−13
0.25
0.2
0.15
0.1
0.05
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

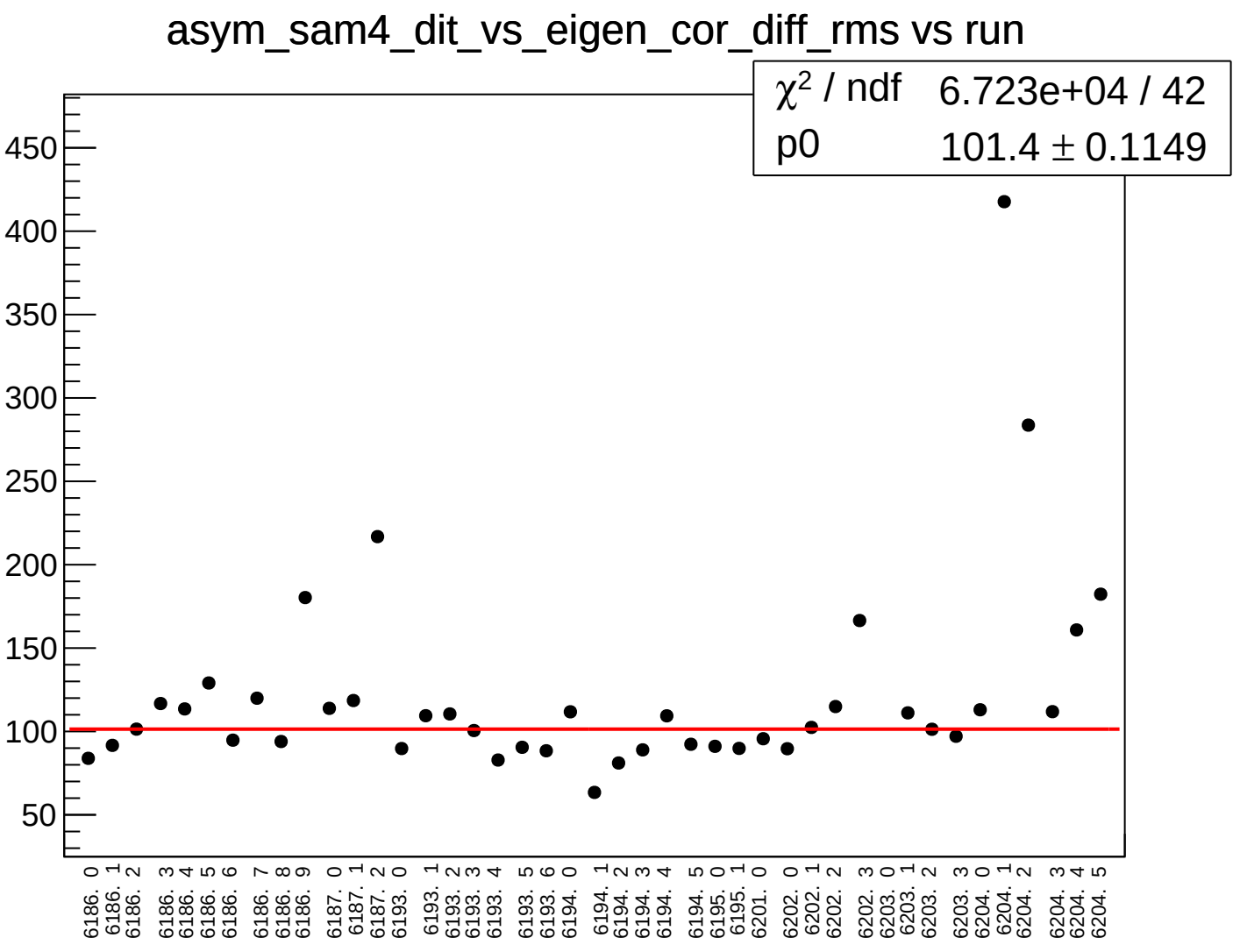

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 48.22 / 42
p0 −0.3239 ± 0.1626
pull
Entries 43
Mean 70.2
Std Dev 0

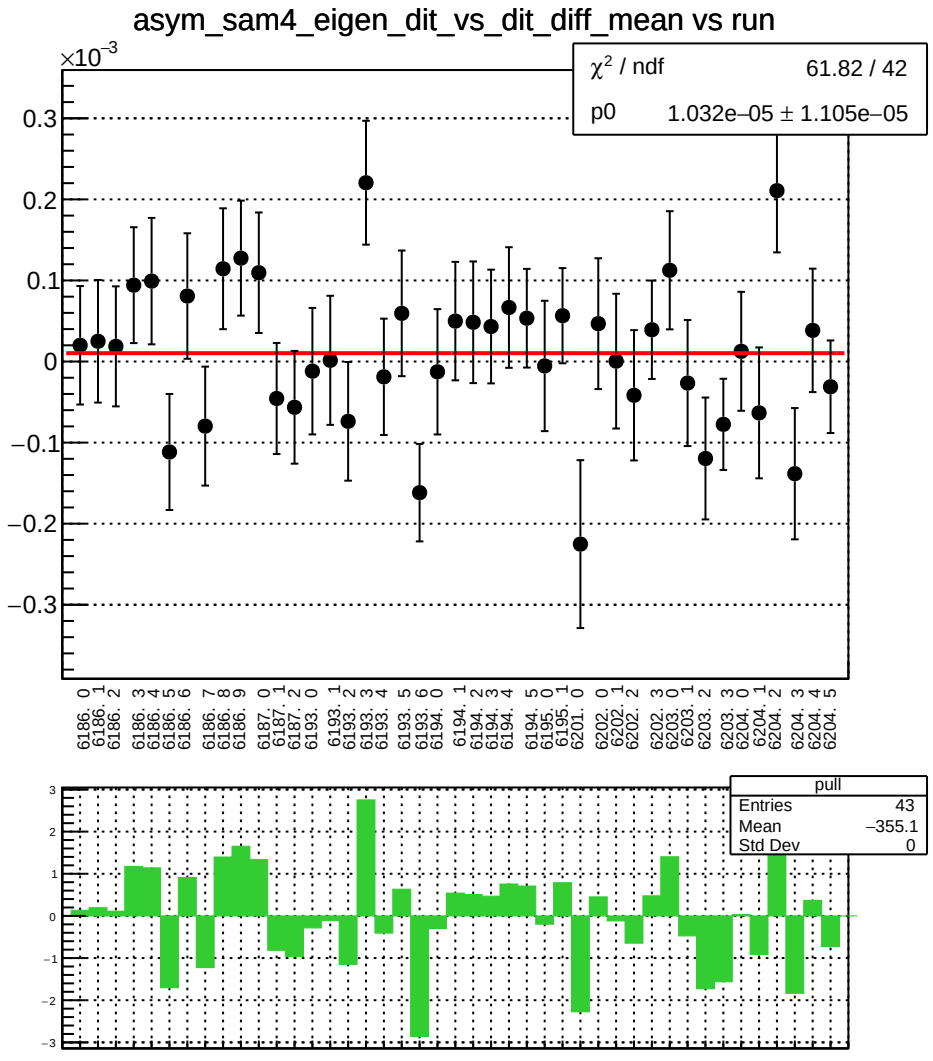

pull1D
Entries 43
Mean −0.02866
Std Dev 1.059

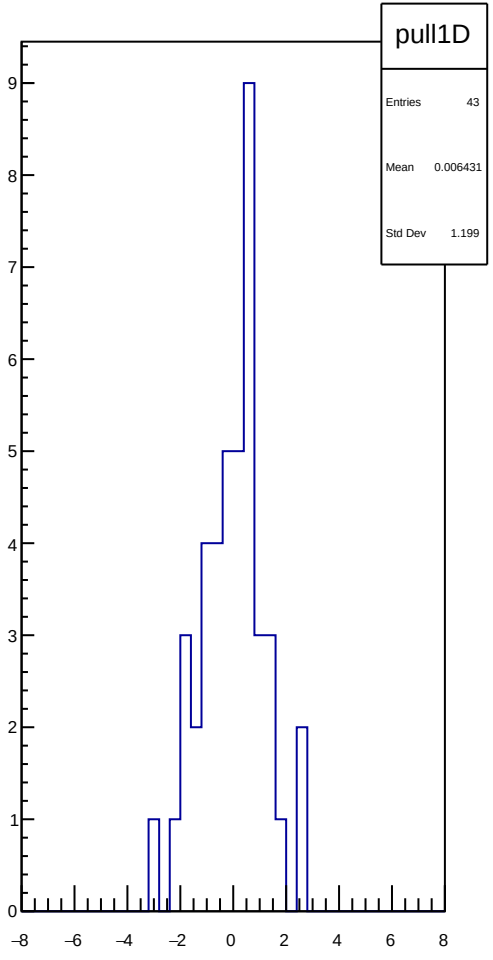

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 6.723e+04 / 42
p0 101.4 ± 0.1149
450
400
350
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

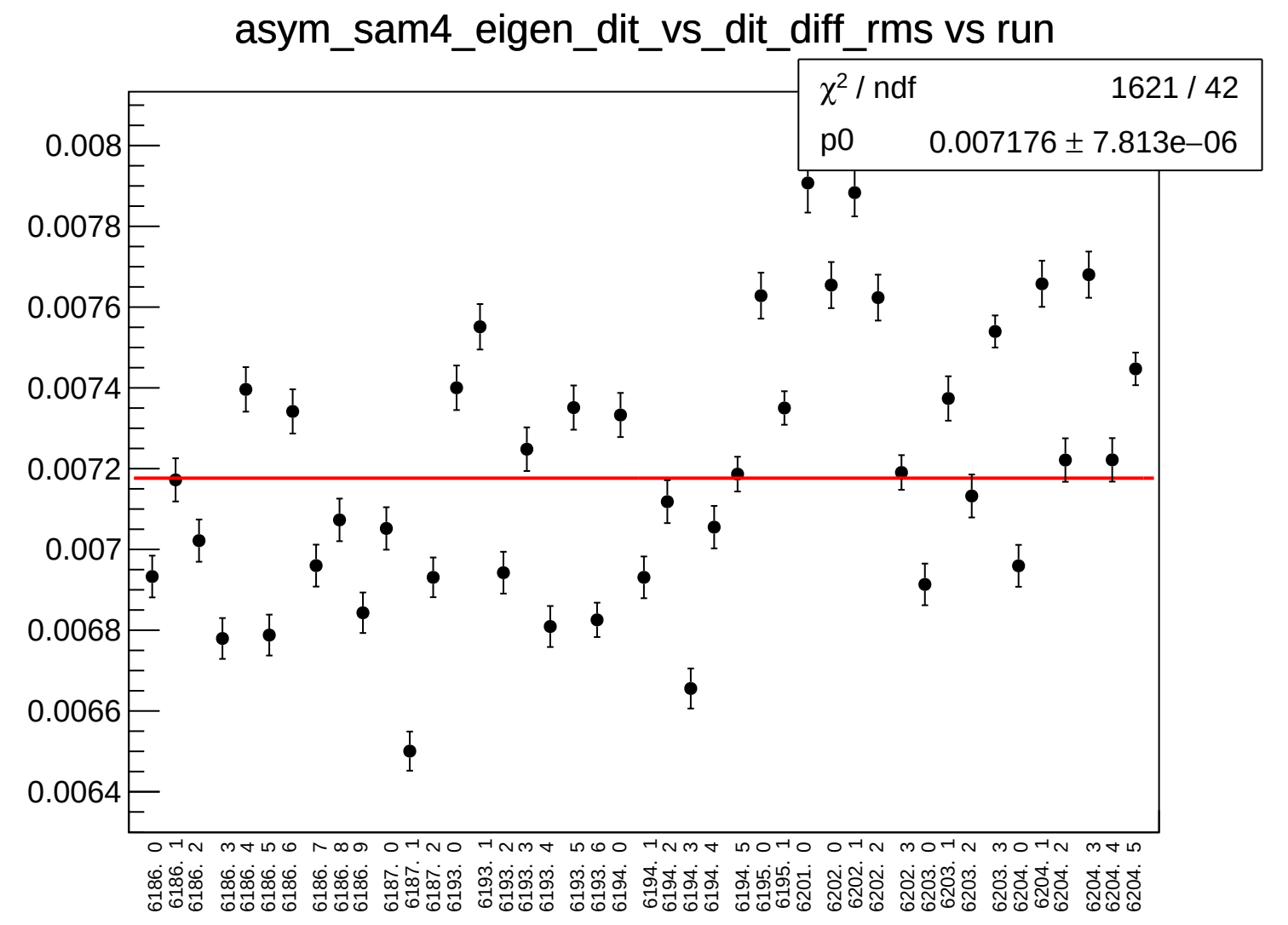

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.22 / 42
p0 −0.3239 ± 0.1626
pull
Entries 43
Mean 70.2
Std Dev 0

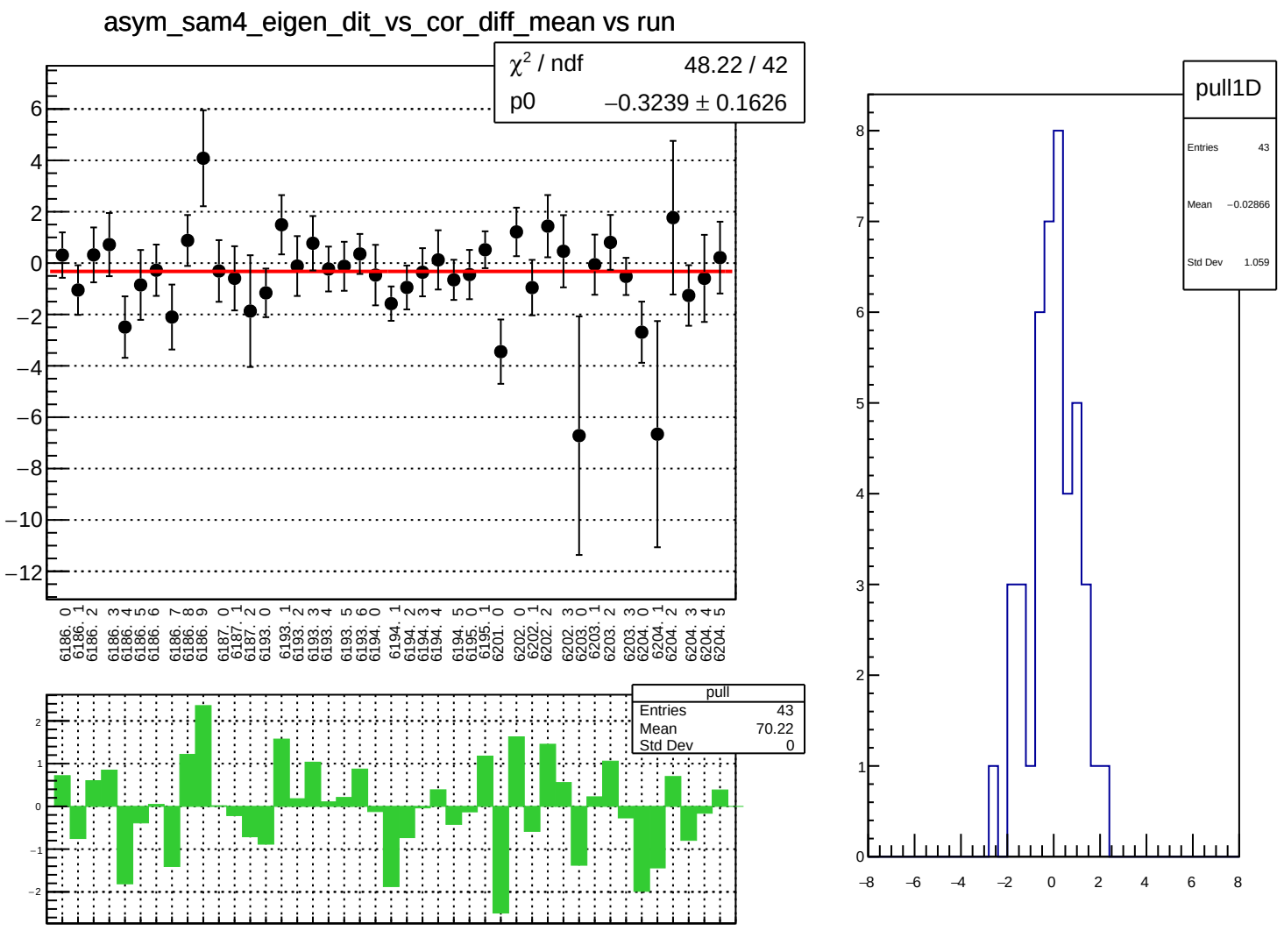

pull1D
Entries 43
Mean −0.02866
Std Dev 1.059

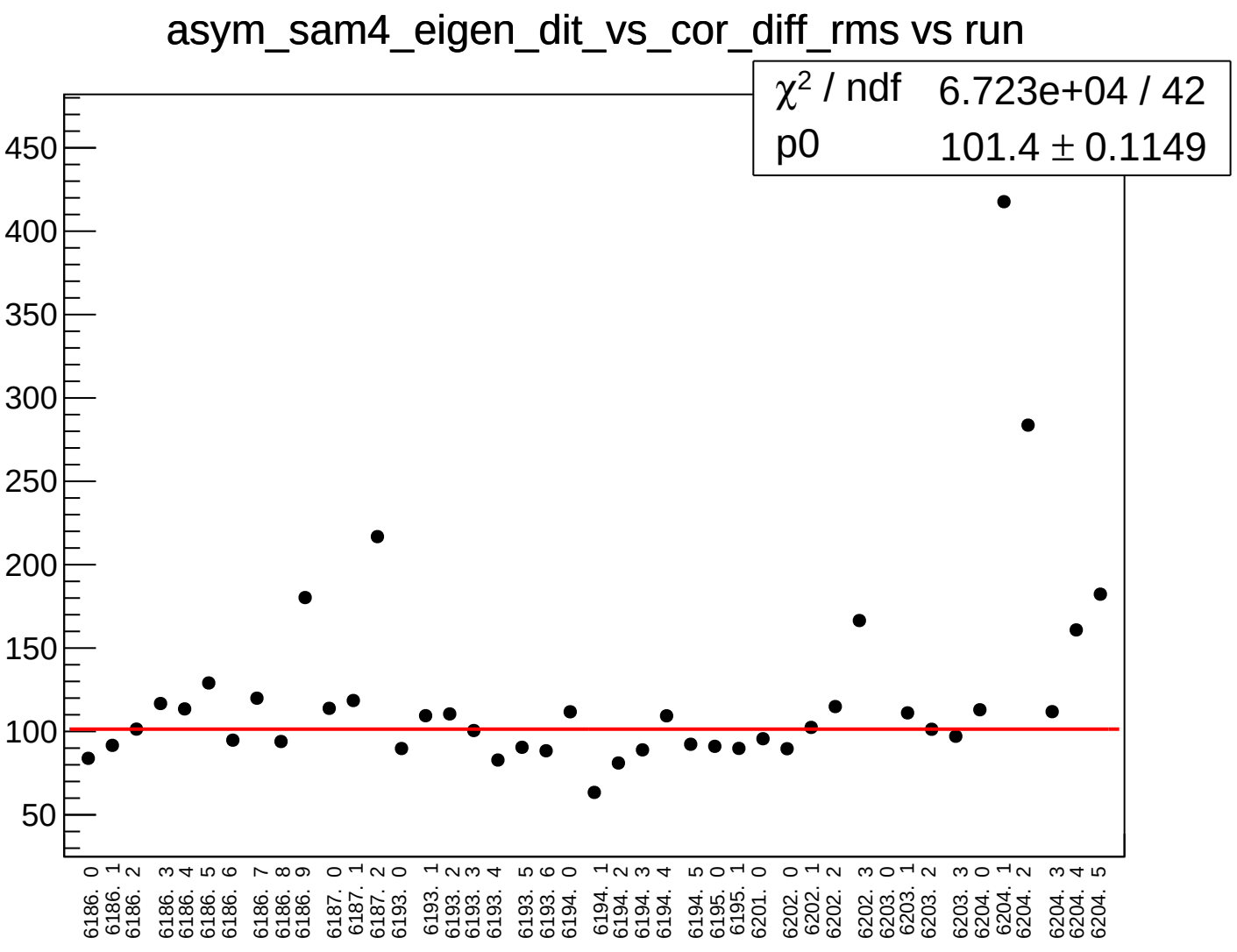

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.723e+04 / 42
p0 101.4 ± 0.1149
450
400
350
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

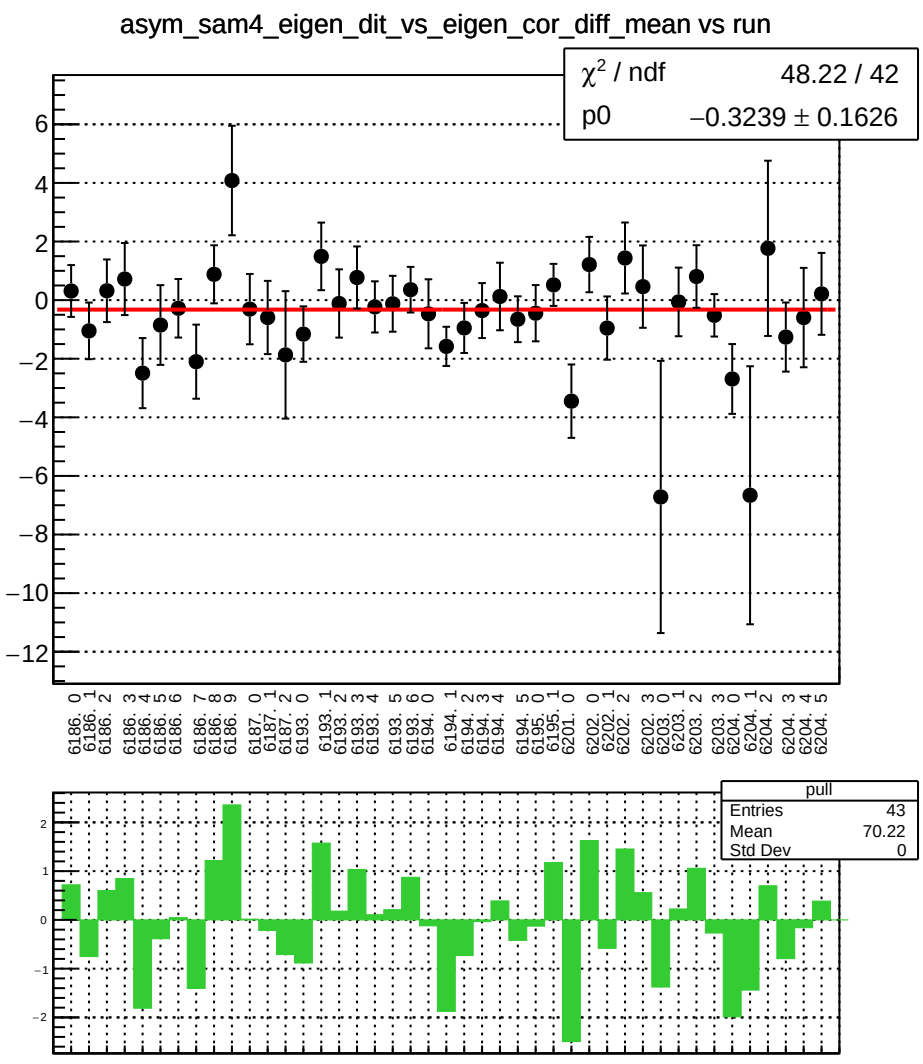

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 61.82 / 42
p0 1.032e−05 ± 1.105e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −355.1
Std Dev 0
3
2
1
0
−1
−2
−3

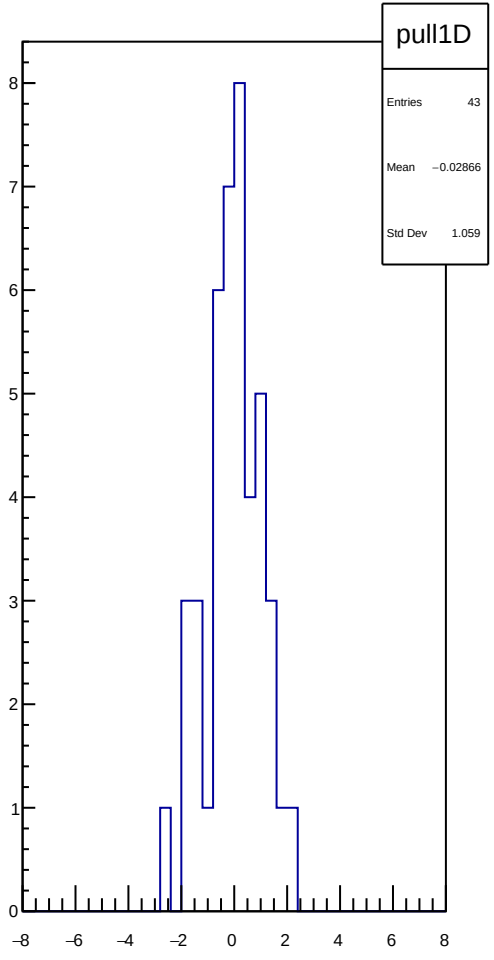

pull1D
Entries 43
Mean 0.006431
Std Dev 1.199
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

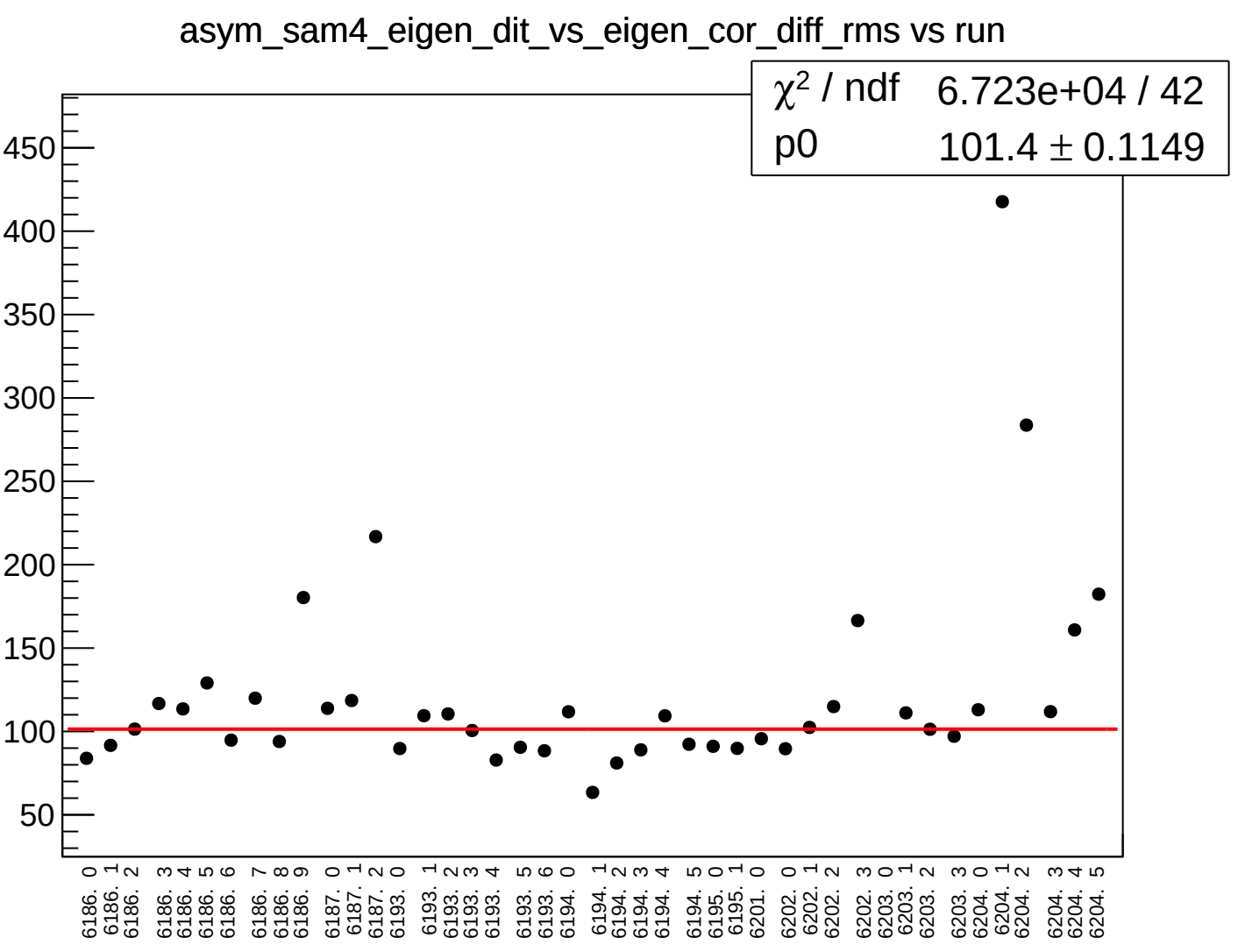

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1621 / 42
p0 0.007176 ± 7.813e−06
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

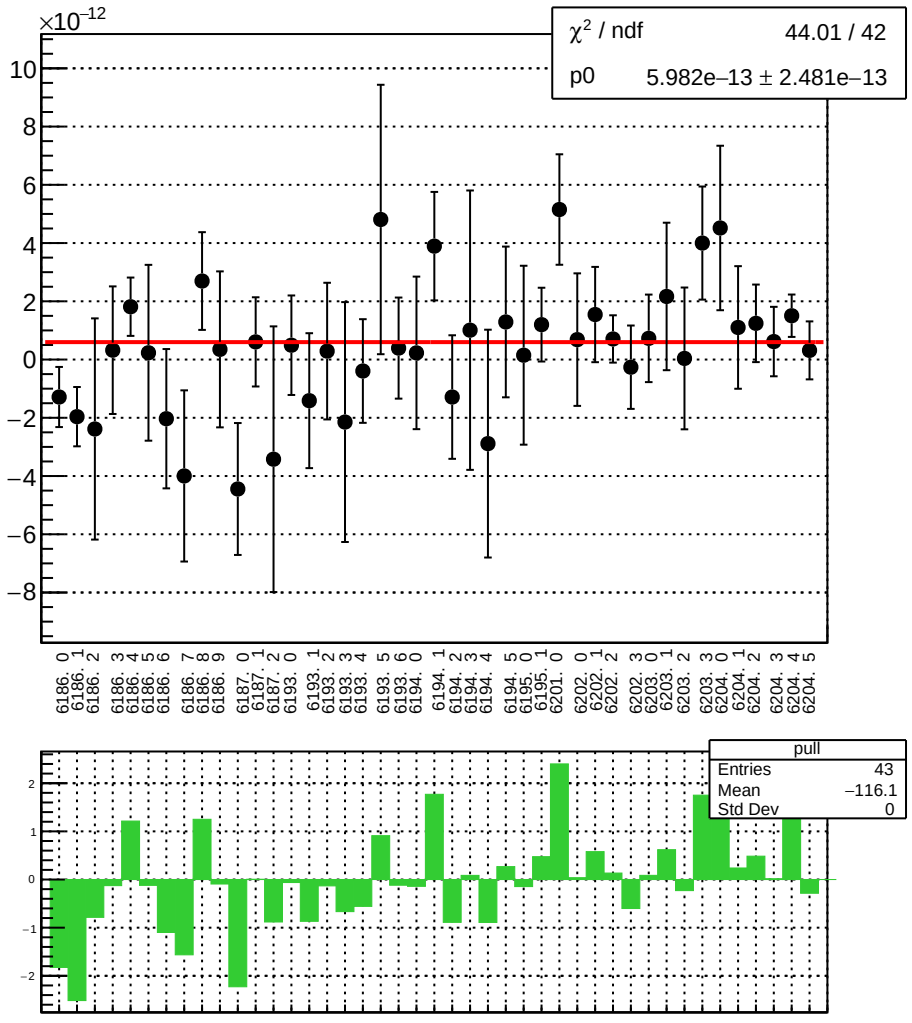

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.22 / 42
p0 −0.3239 ± 0.1626
pull
Entries 43
Mean 70.22
Std Dev 0
pull1D
Entries 43
Mean −0.02866
Std Dev 1.059

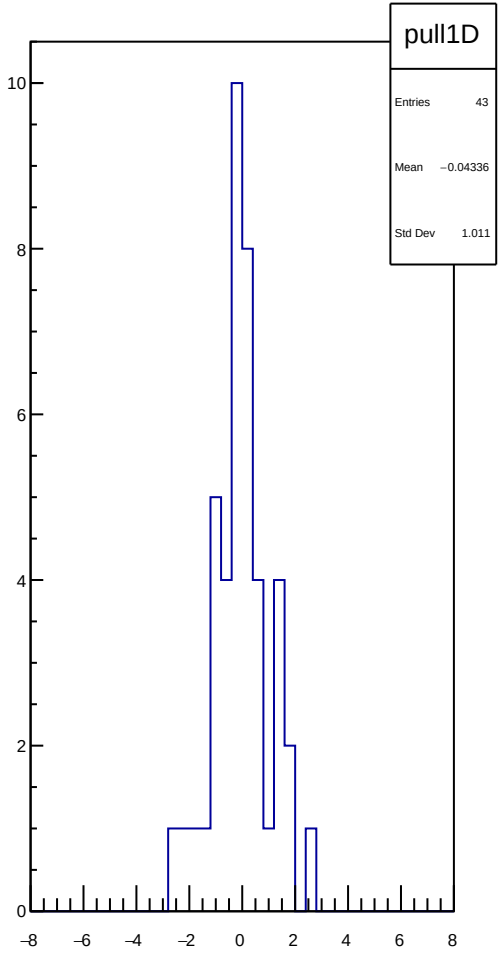

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.723e+04 / 42
p0 101.4 ± 0.1149
450
400
350
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

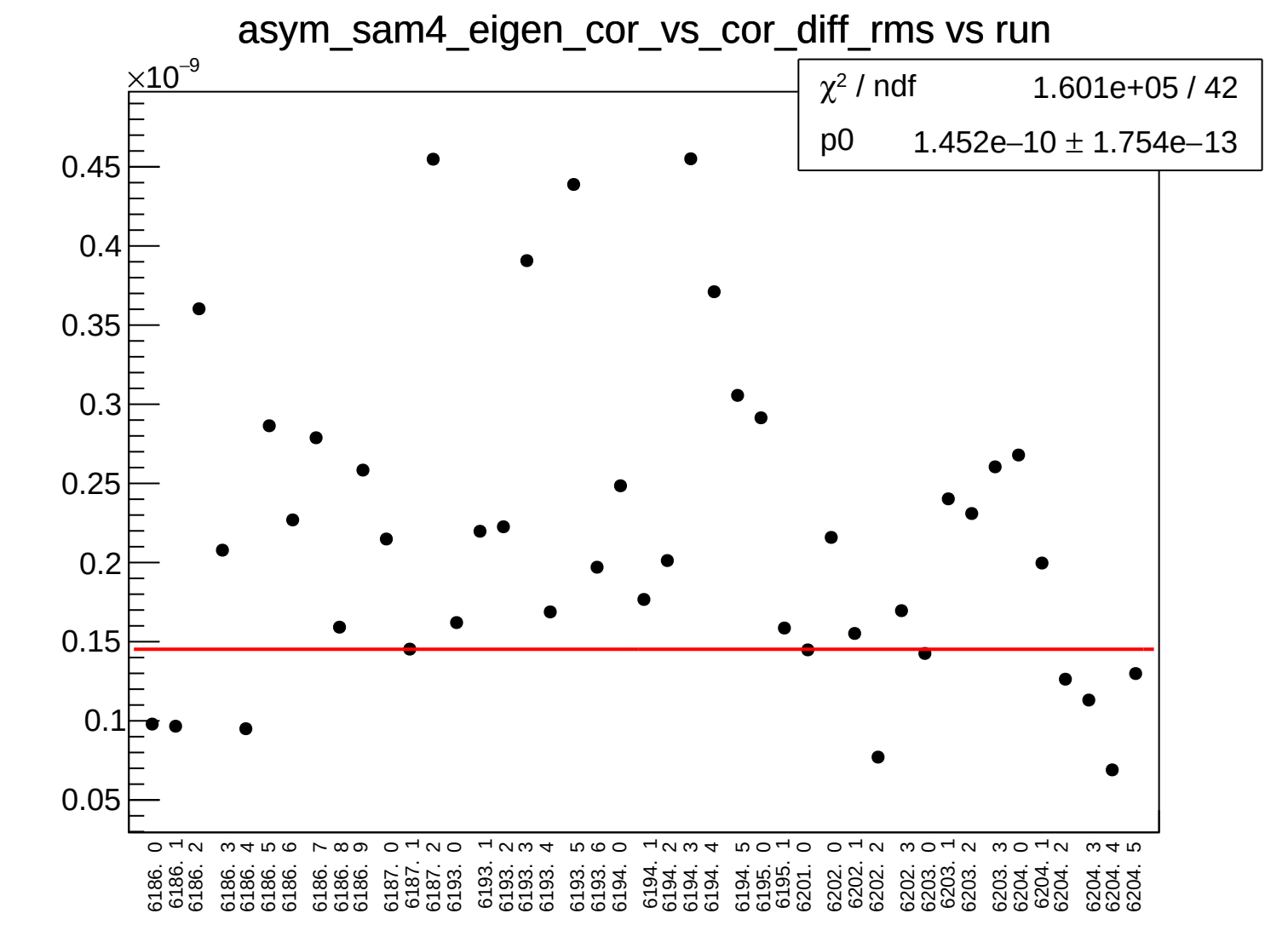

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.22 / 42
p0 −0.3239 ± 0.1626
pull
Entries 43
Mean 70.22
Std Dev 0

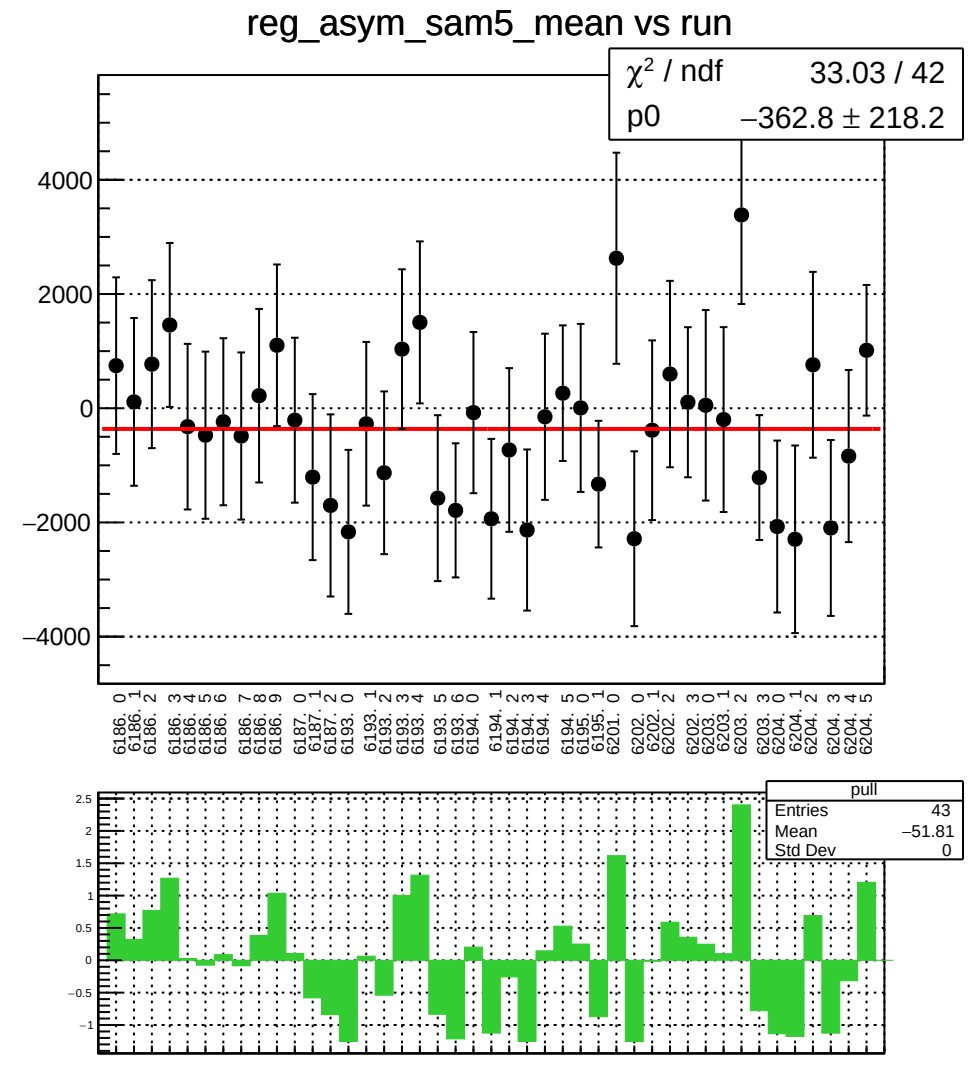

pull1D
Entries 43
Mean −0.02866
Std Dev 1.059

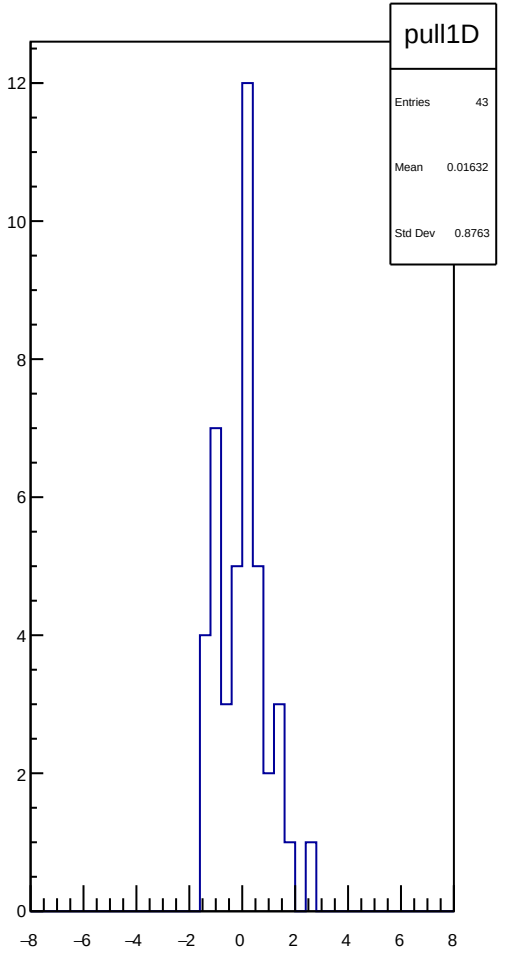

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.723e+04 / 42
p0 101.4 ± 0.1149
450
400
350
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

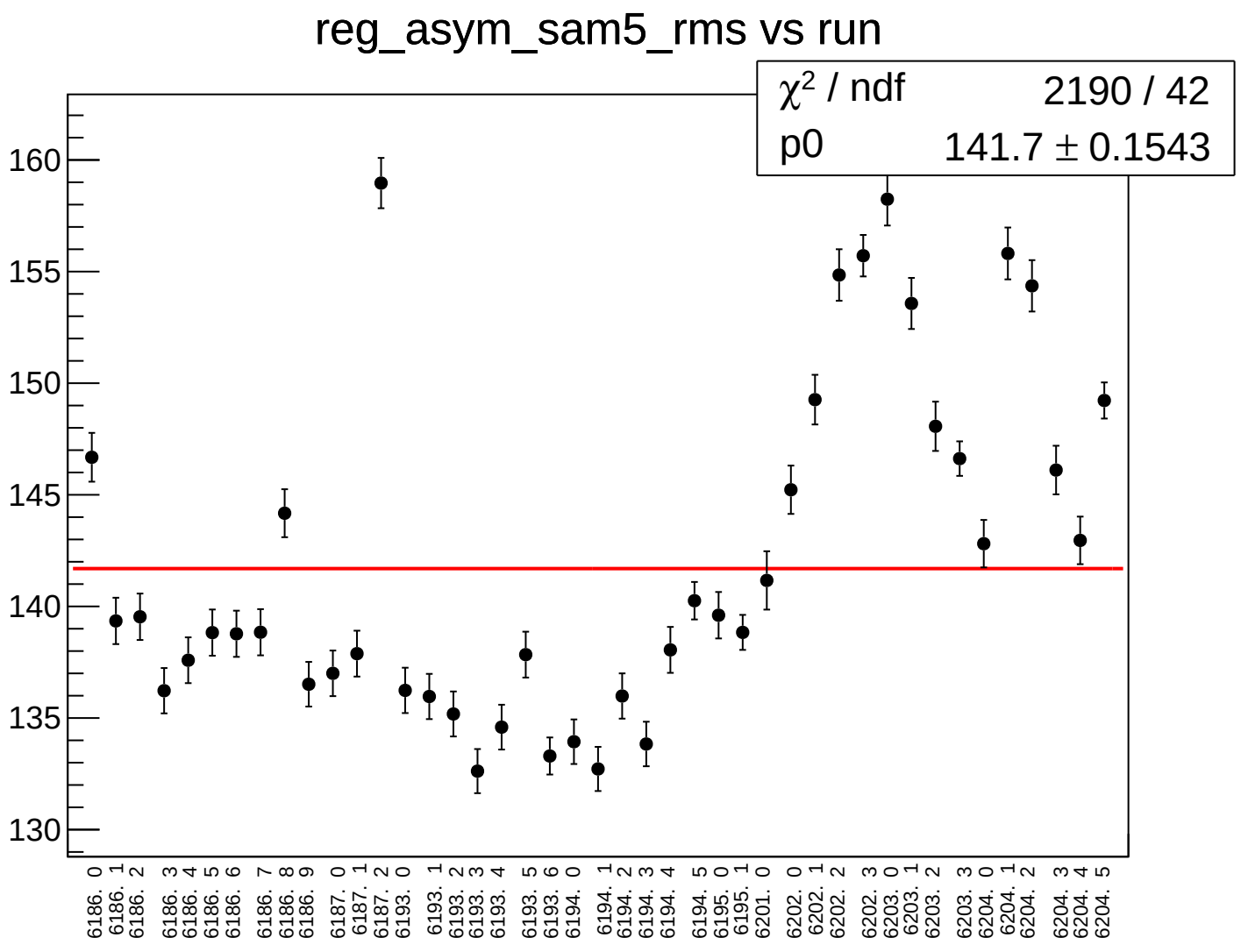

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.01 / 42
p0 5.982e−13 ± 2.481e−13
pull
Entries 43
Mean −116.1
Std Dev 0

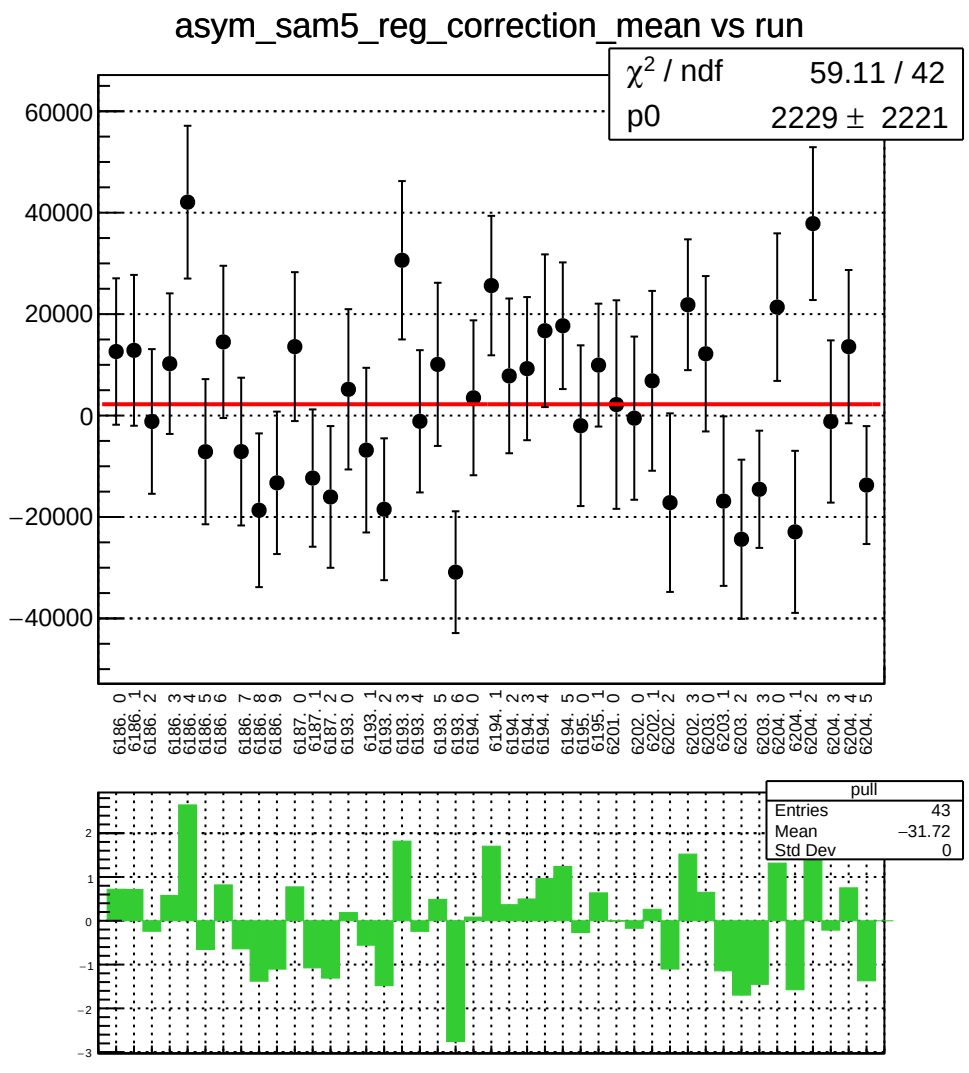

pull1D
Entries 43
Mean −0.04336
Std Dev 1.011

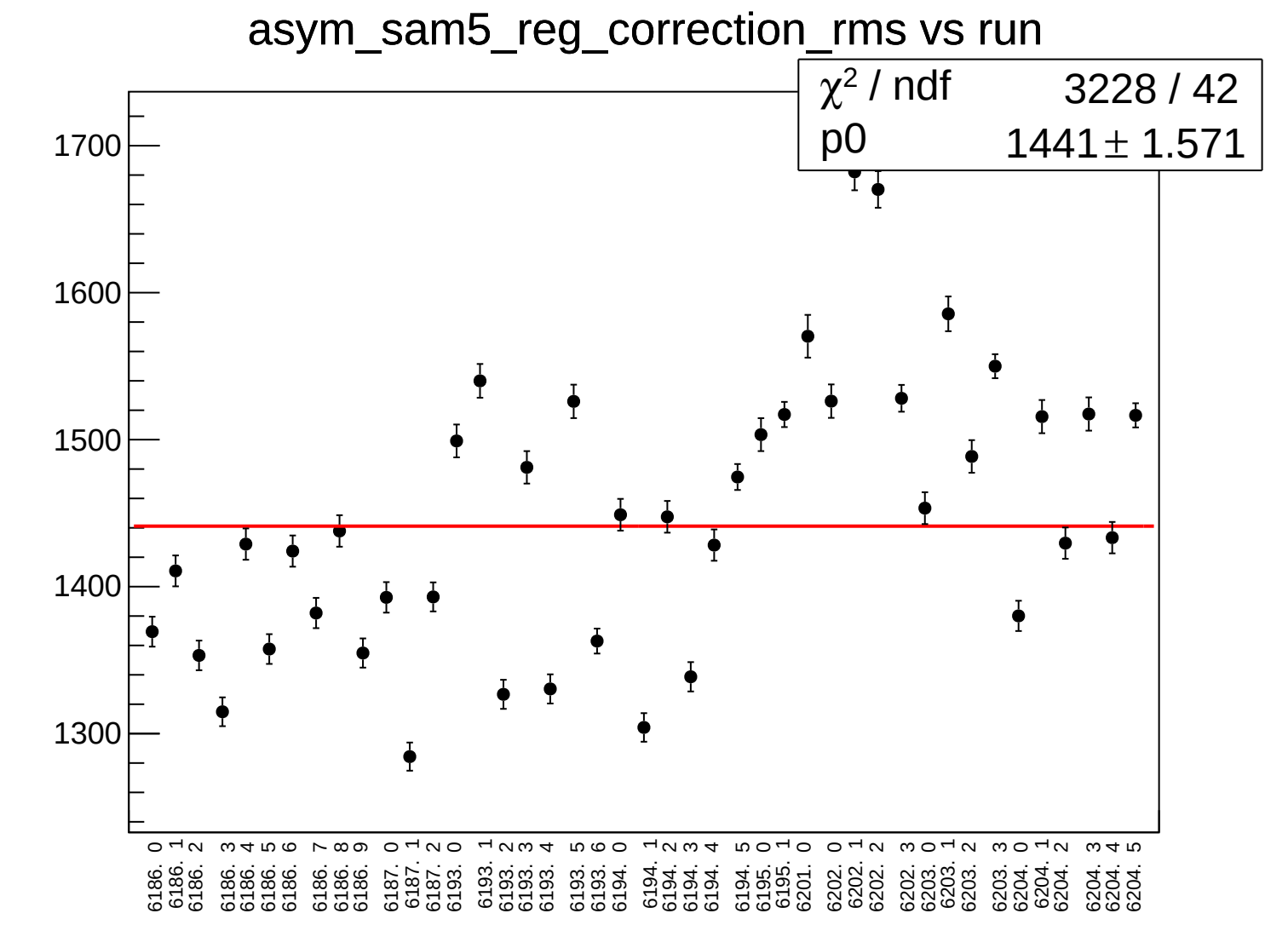

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.601e+05 / 42
p0 1.452e−10 ± 1.754e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_sam5_mean vs run
χ² / ndf 33.03 / 42
p0 −362.8 ± 218.2
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −51.81
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 43
Mean 0.01632
Std Dev 0.8763
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam5_rms vs run
χ² / ndf 2190 / 42
p0 141.7 ± 0.1543
160
155
150
145
140
135
130
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam5_reg_correction_mean vs run
χ² / ndf 59.11 / 42
p0 2229 ± 2221
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −31.72
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01572
Std Dev 1.172
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_reg_correction_rms vs run
χ² / ndf 3228 / 42
p0 1441 ± 1.571
1700
1600
1500
1400
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
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6204. 2
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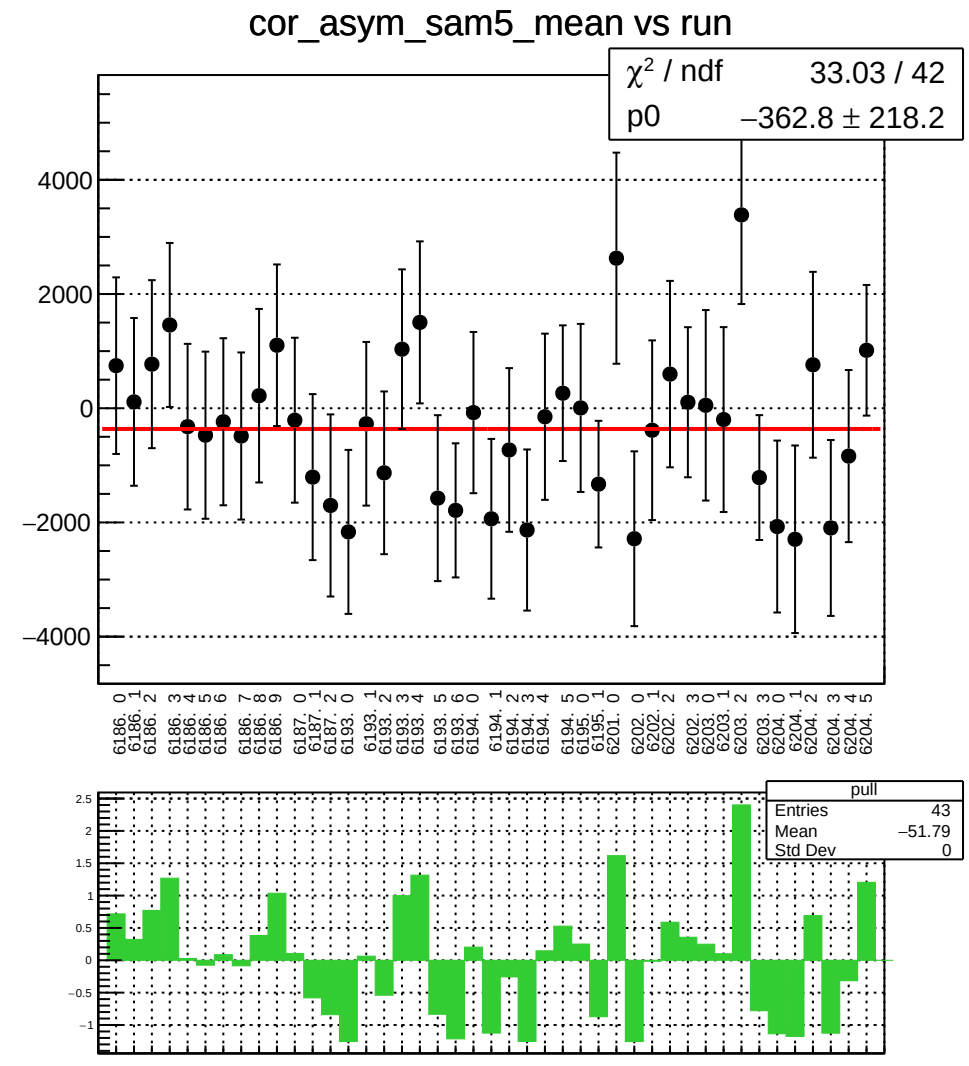
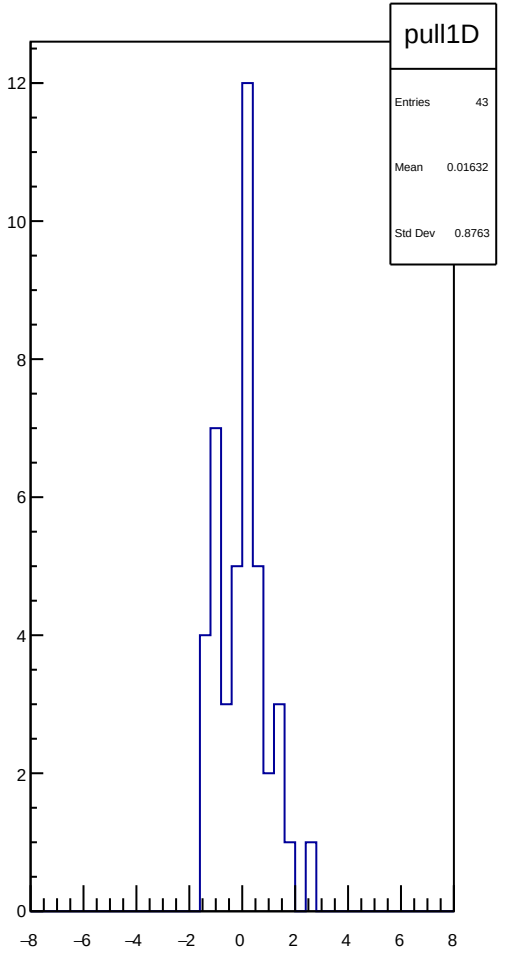
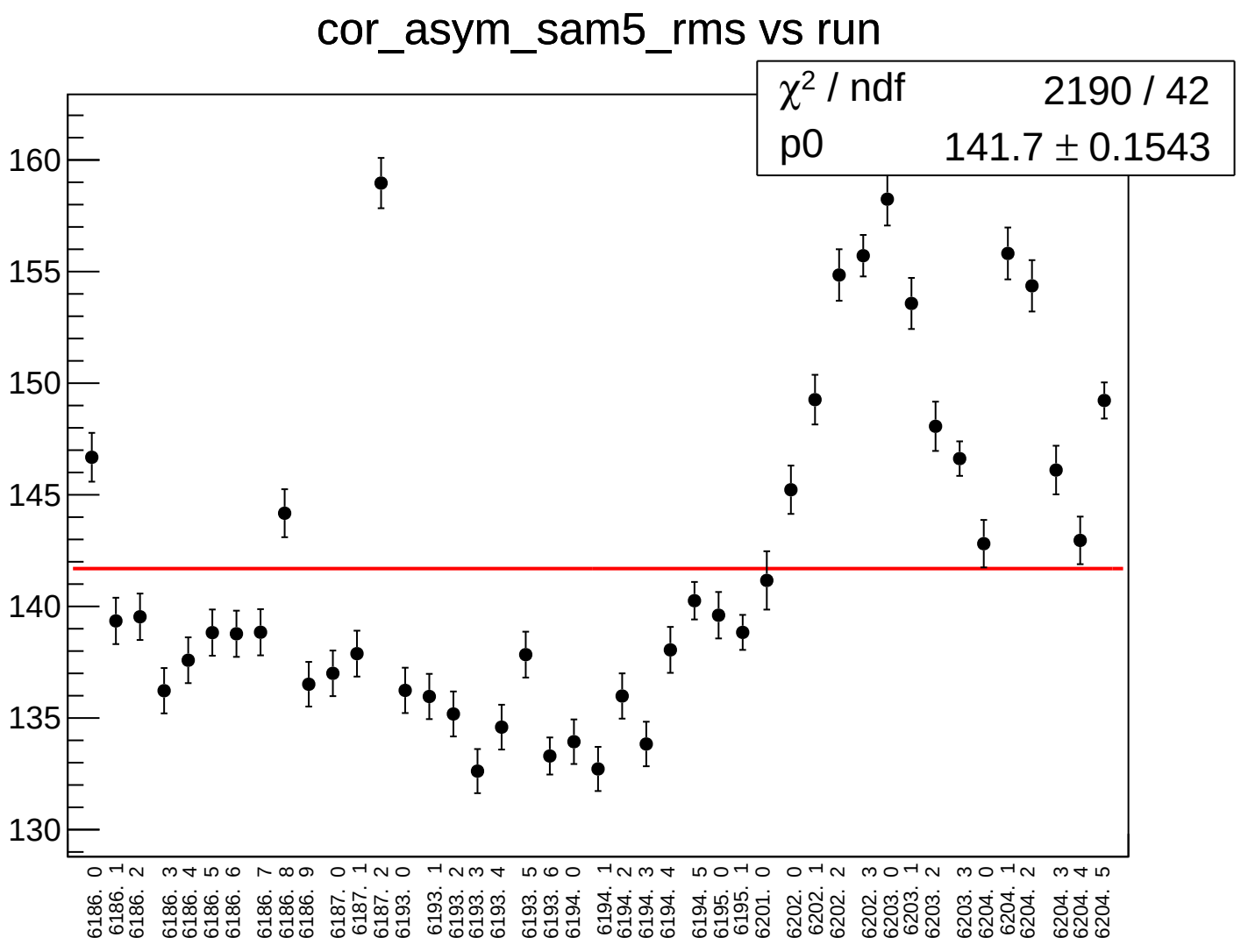
6204. 4
6204. 5


cor_asym_sam5_mean vs run
χ² / ndf 33.03 / 42
p0 −362.8 ± 218.2
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −51.79
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 43
Mean 0.01632
Std Dev 0.8763
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam5_rms vs run
χ² / ndf 2190 / 42
p0 141.7 ± 0.1543
160
155
150
145
140
135
130
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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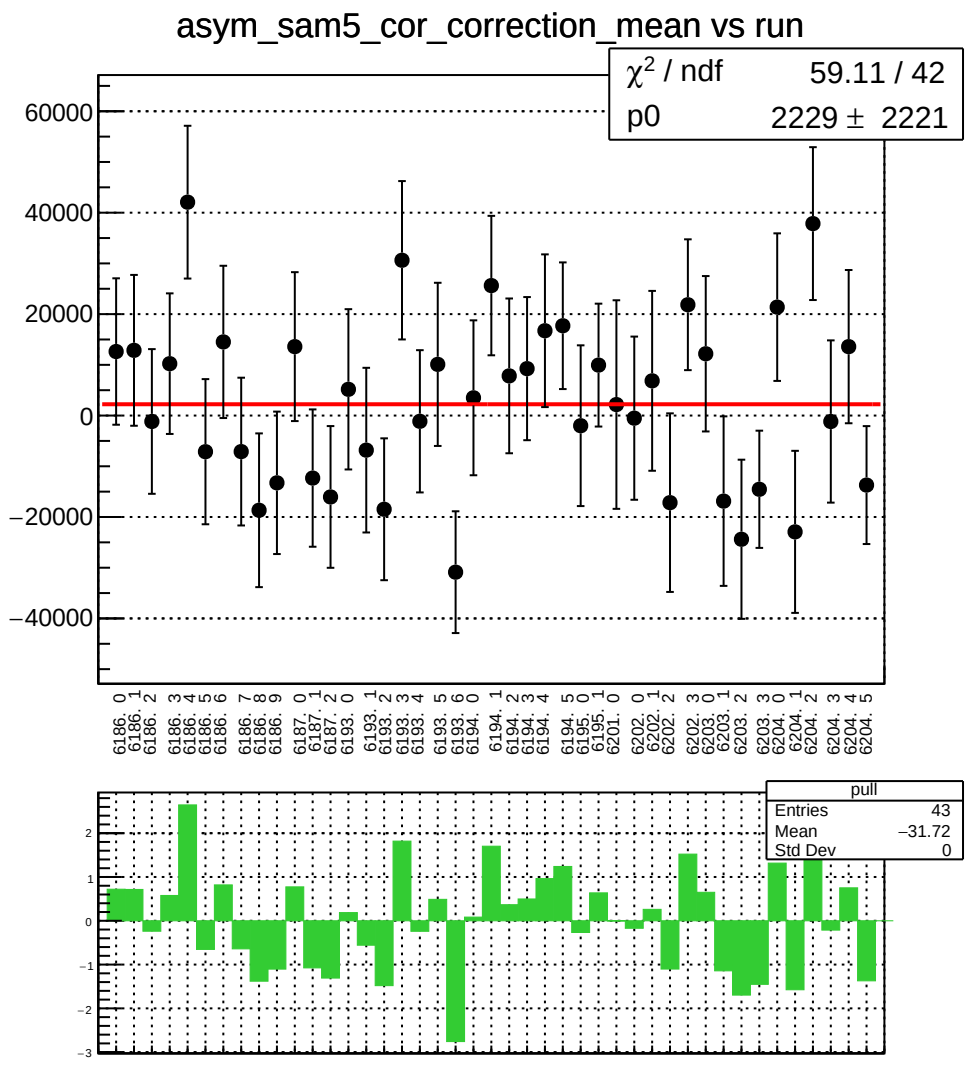
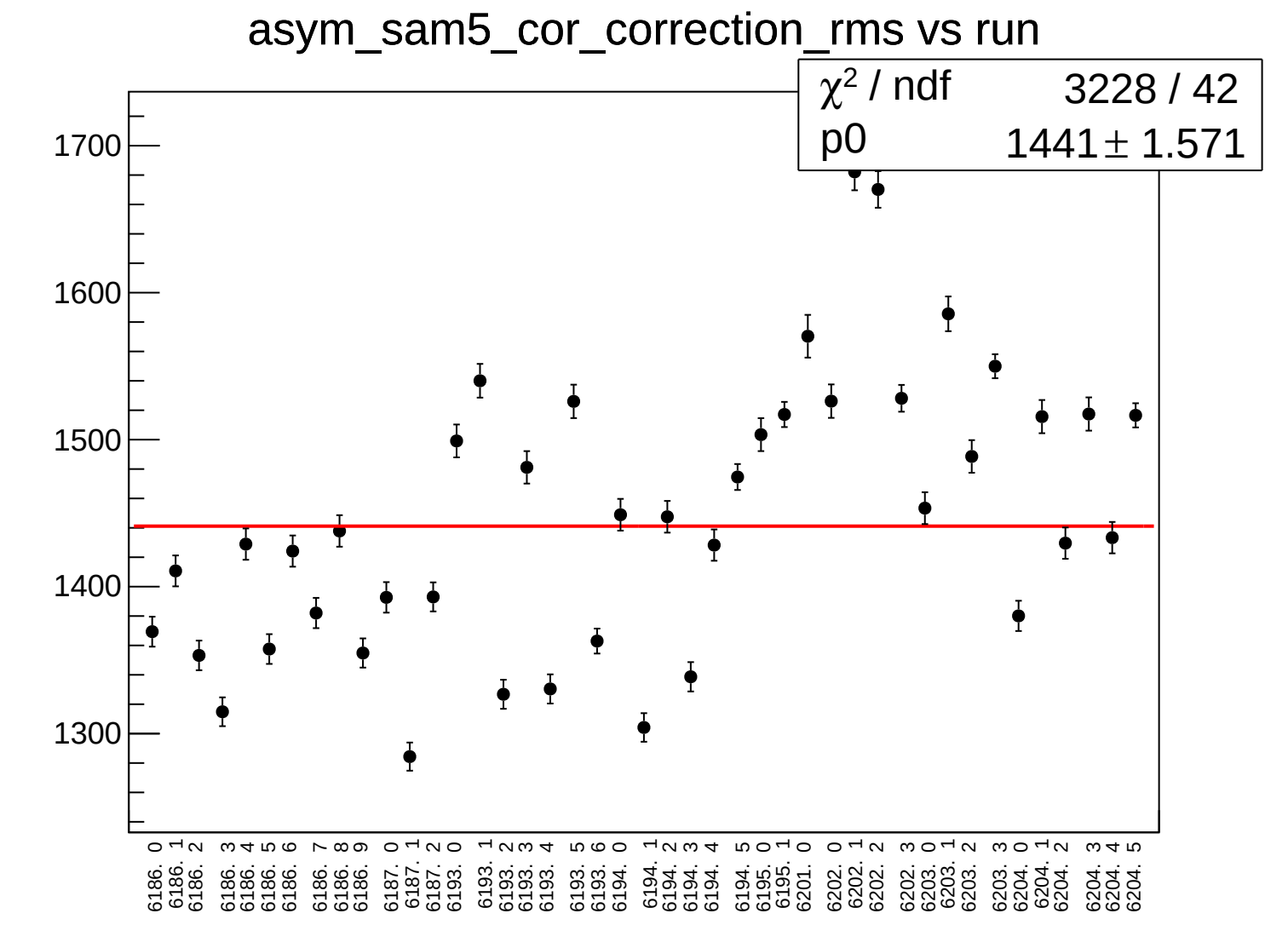
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam5_cor_correction_mean vs run
χ² / ndf 59.11 / 42
p0 2229 ± 2221
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −31.72
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01572
Std Dev 1.172
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_cor_correction_rms vs run
χ² / ndf 3228 / 42
p0 1441 ± 1.571
1700
1600
1500
1400
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
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6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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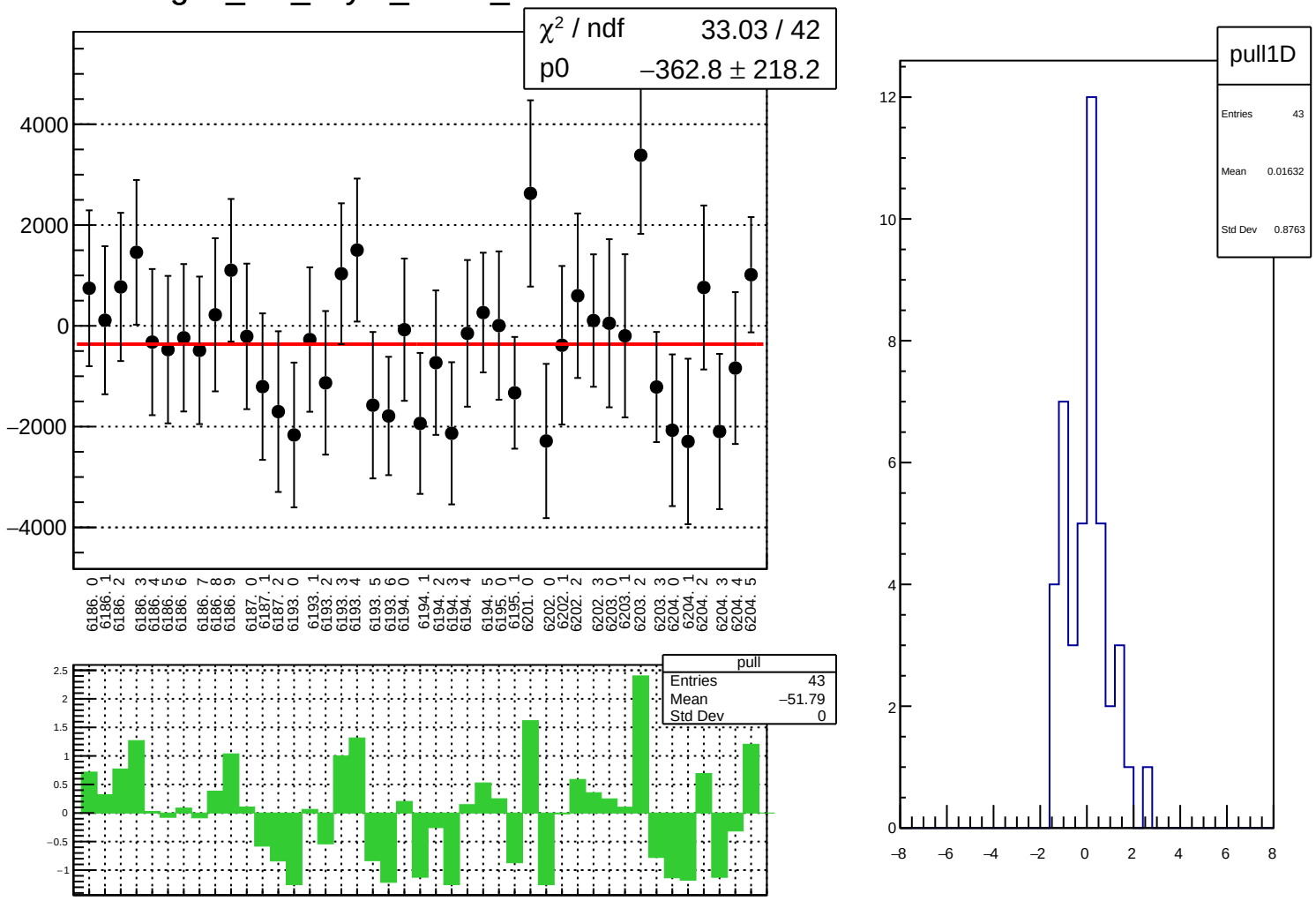
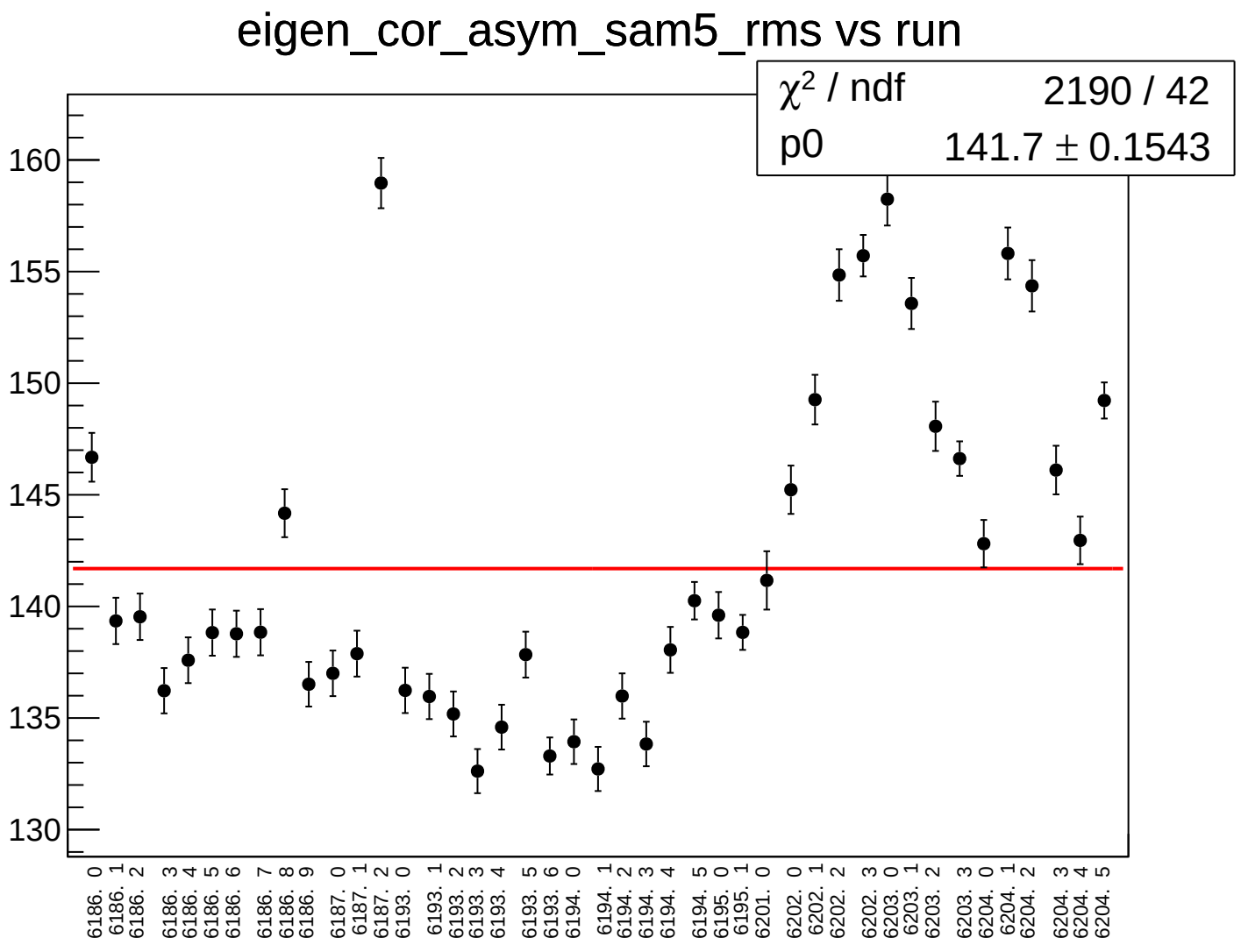
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_sam5_mean vs run
χ² / ndf 33.03 / 42
p0 −362.8 ± 218.2
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −51.79
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.01632
Std Dev 0.8763
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam5_rms vs run
χ² / ndf 2190 / 42
p0 141.7 ± 0.1543
160
155
150
145
140
135
130
6186. 0
6186. 1
6186. 2
6186. 3
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6187. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 3
6204. 0
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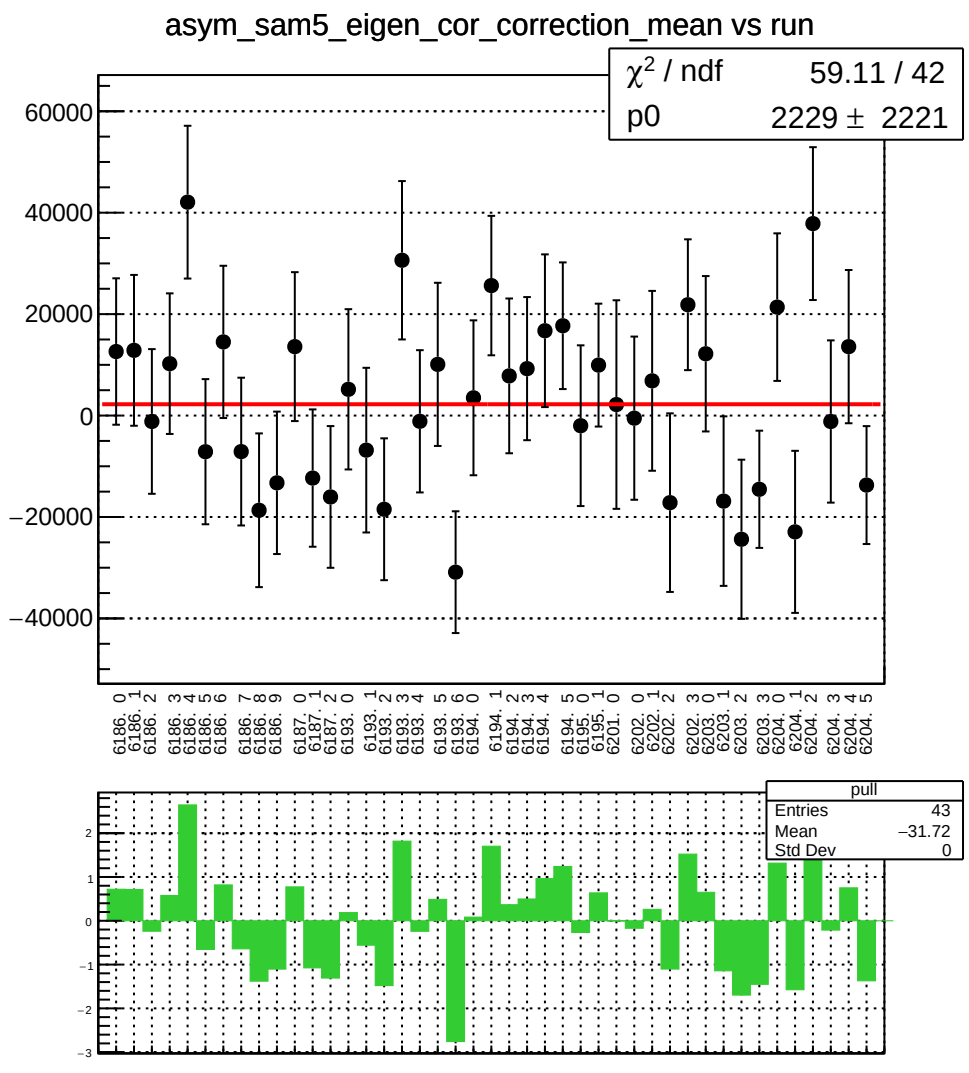
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 59.11 / 42
p0 2229 ± 2221
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
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6186. 7
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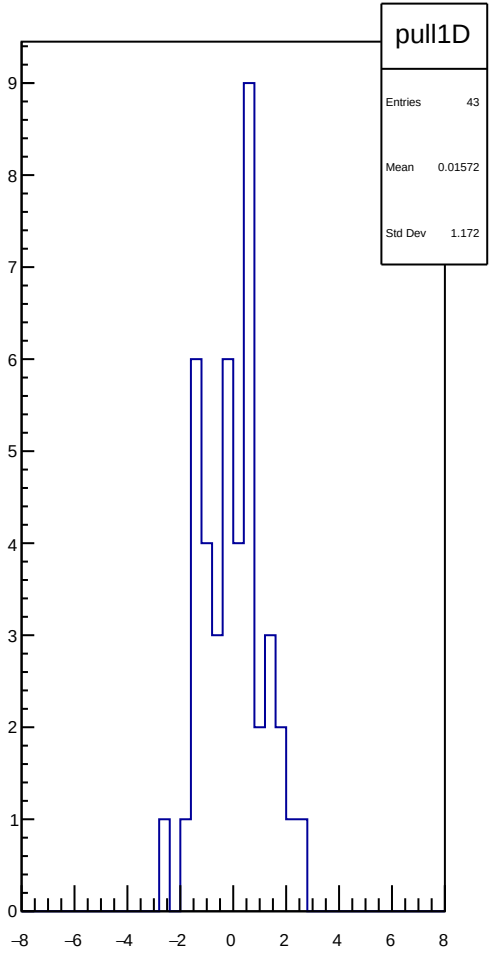
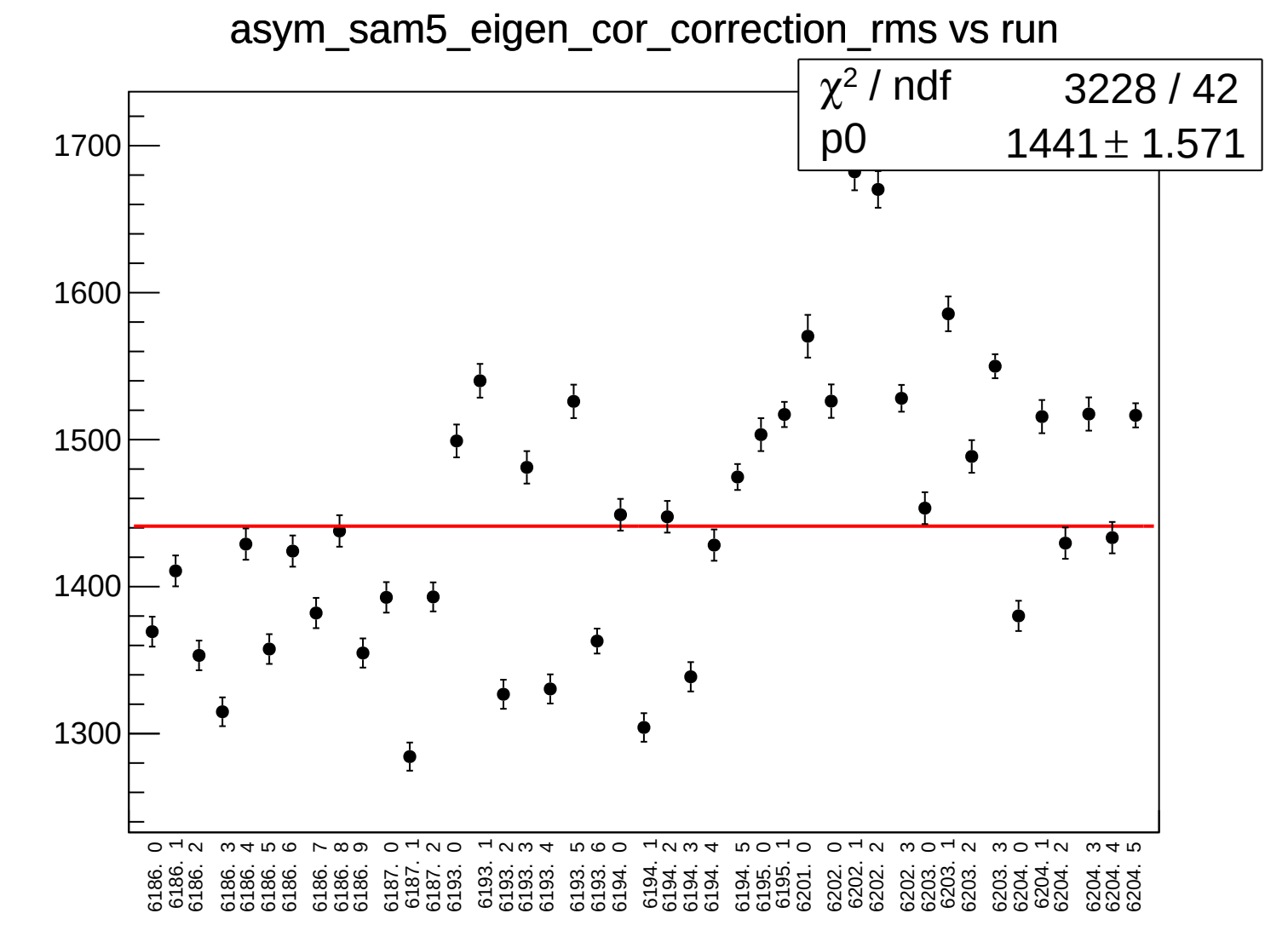
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −31.72
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.01572
Std Dev 1.172
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 3228 / 42
p0 1441 ± 1.571
1700
1600
1500
1400
1300
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 5
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6187. 0
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6187. 2
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6193. 2
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6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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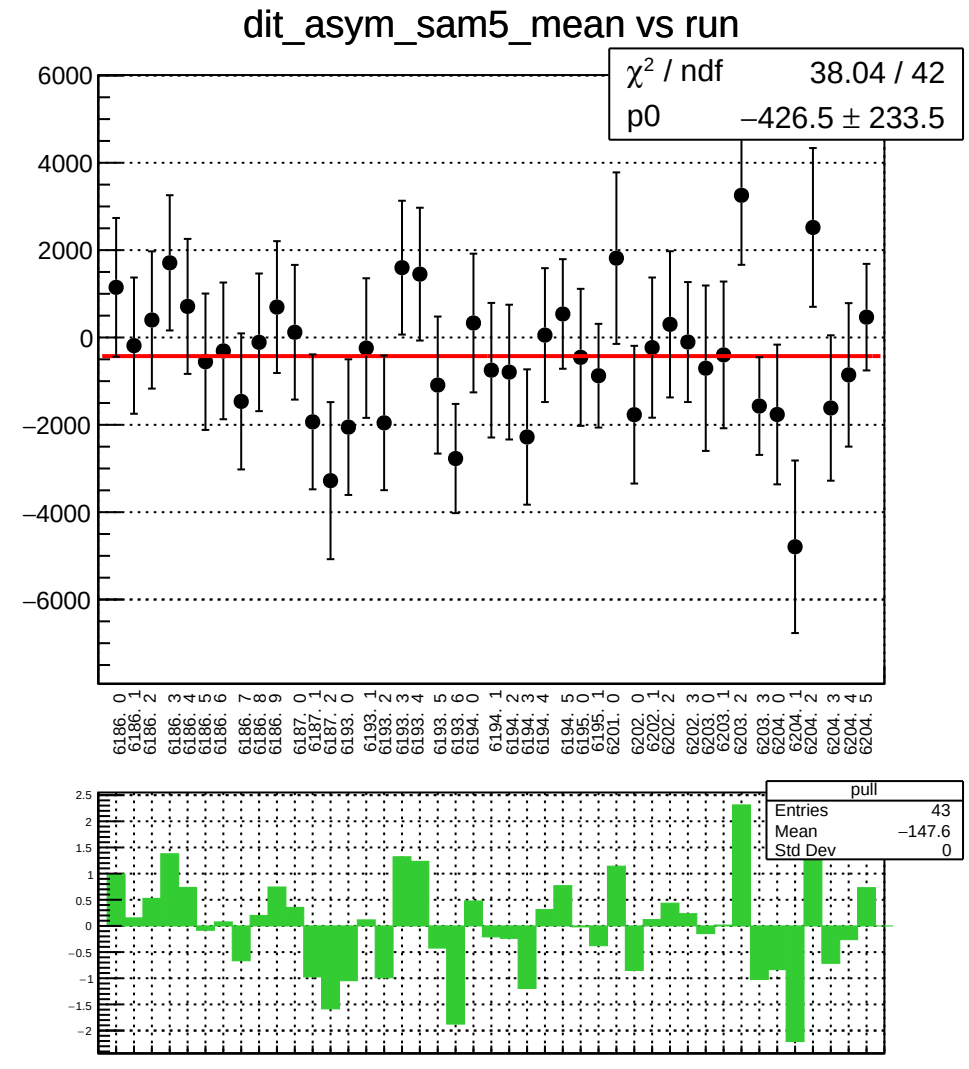
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_sam5_mean vs run
χ² / ndf 38.04 / 42
p0 −426.5 ± 233.5
6000
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
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6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
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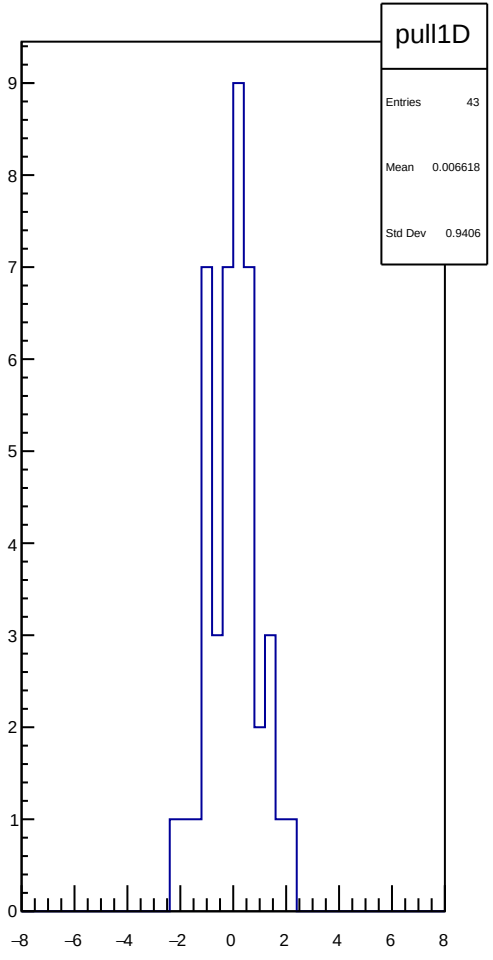
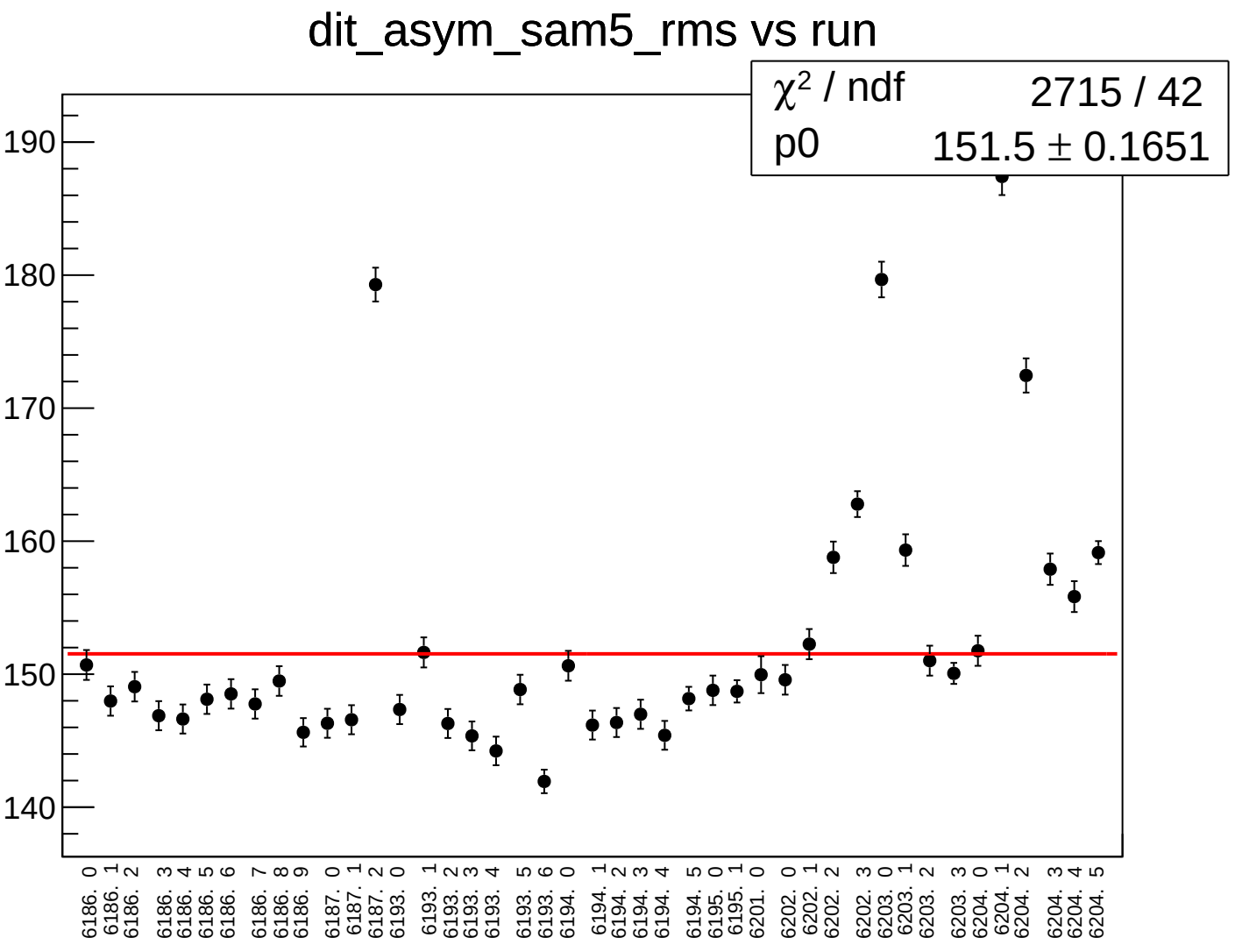
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −147.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean 0.006618
Std Dev 0.9406
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam5_rms vs run
χ² / ndf 2715 / 42
p0 151.5 ± 0.1651
190
180
170
160
150
140
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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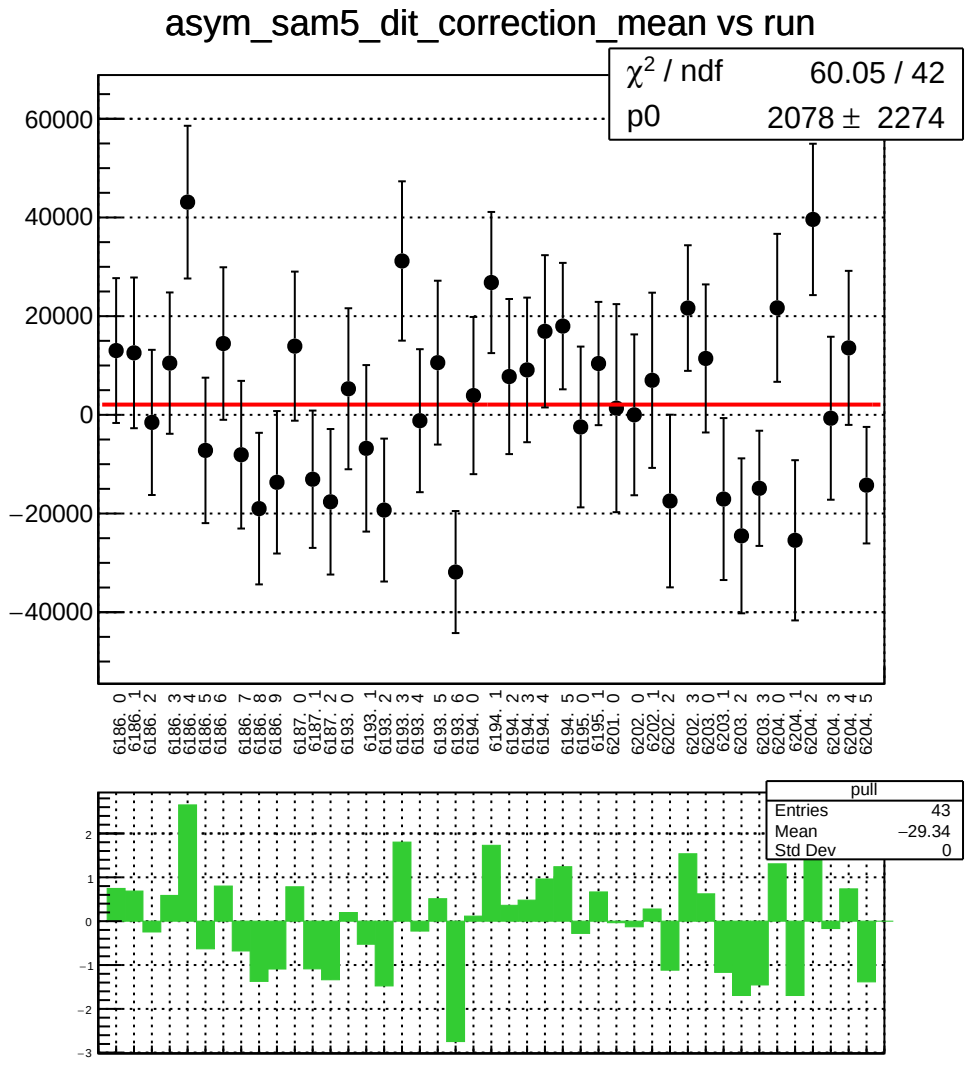
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam5_dit_correction_mean vs run
χ² / ndf 60.05 / 42
p0 2078 ± 2274
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −29.34
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01679
Std Dev 1.182
9
8
7
6
5
4
3
2
1
0
−8
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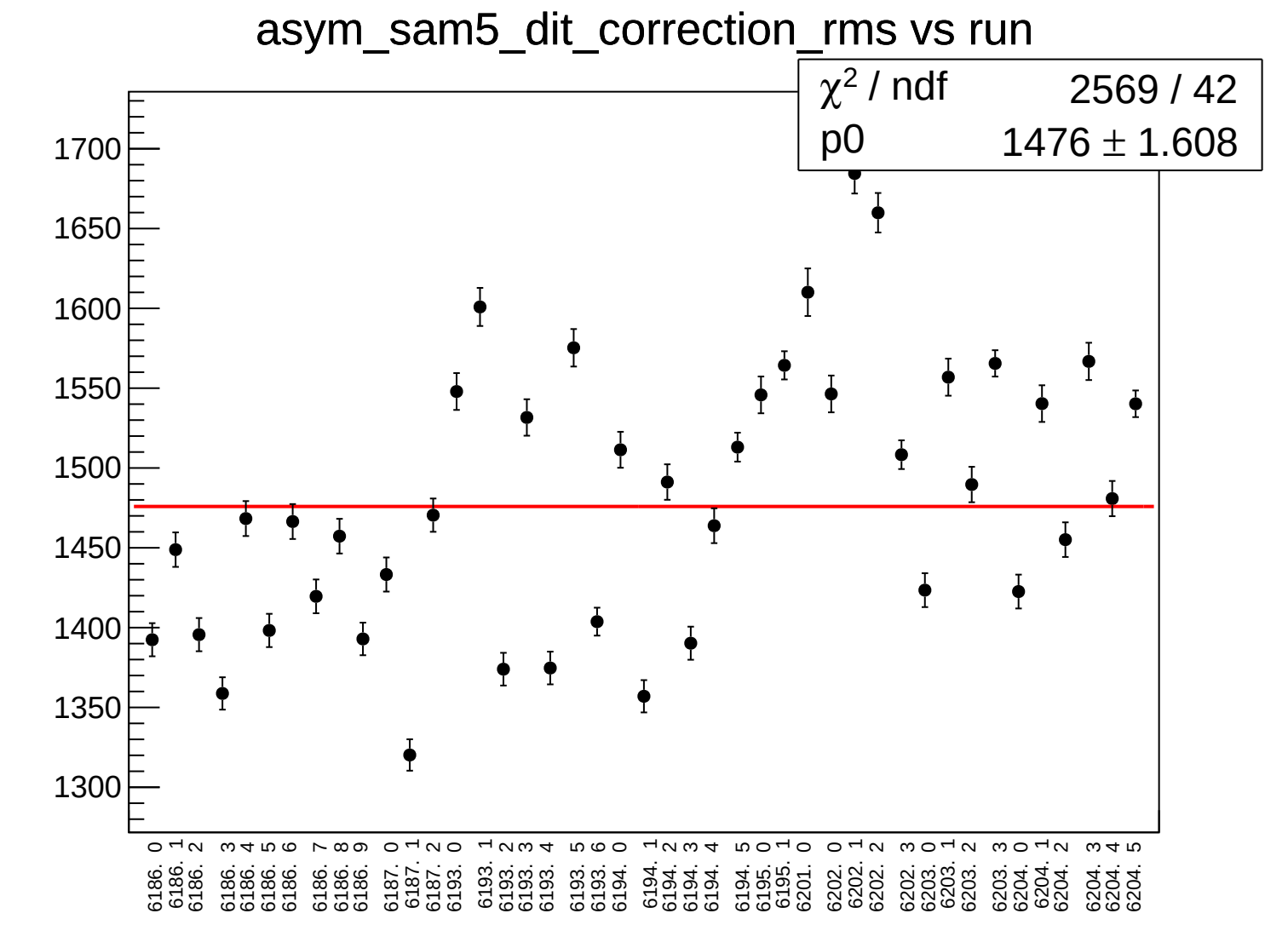
−4
−2
0
2
4
6
8


asym_sam5_dit_correction_rms vs run
χ² / ndf 2569 / 42
p0 1476 ± 1.608
1700
1650
1600
1550
1500
1450
1400
1350
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
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6193. 5
6193. 6
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6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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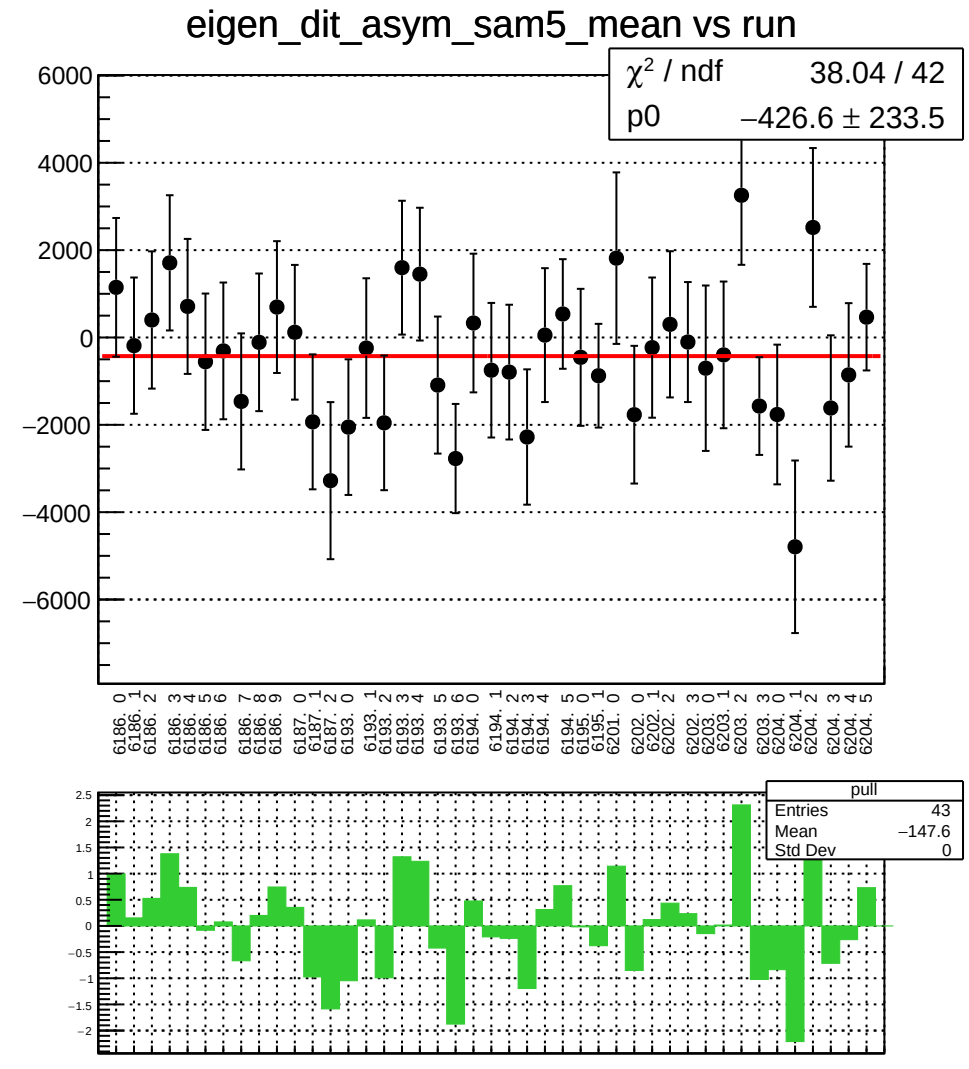
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_sam5_mean vs run
χ² / ndf 38.04 / 42
p0 −426.6 ± 233.5
6000
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 7
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6187. 2
6193. 0
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6194. 2
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6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
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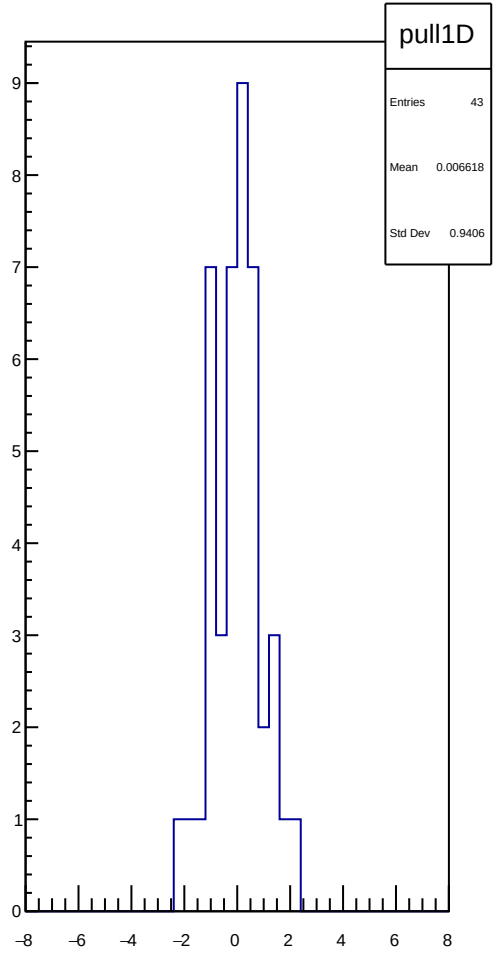
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −147.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean 0.006618
Std Dev 0.9406
9
8
7
6
5
4
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−8
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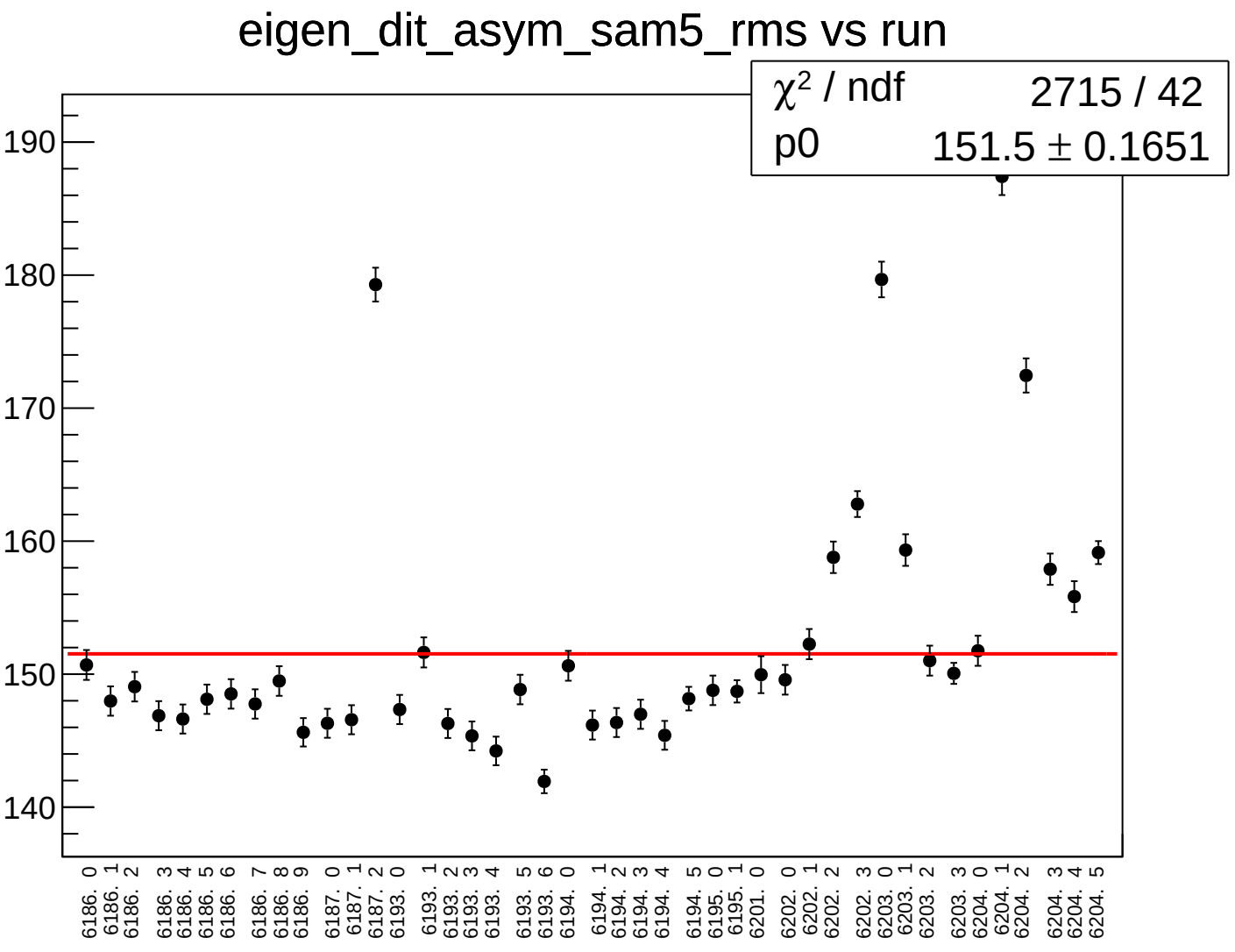
−4
−2
0
2
4
6
8


eigen_dit_asym_sam5_rms vs run
χ² / ndf 2715 / 42
p0 151.5 ± 0.1651
190
180
170
160
150
140
6186. 0
6186. 1
6186. 2
6186. 3
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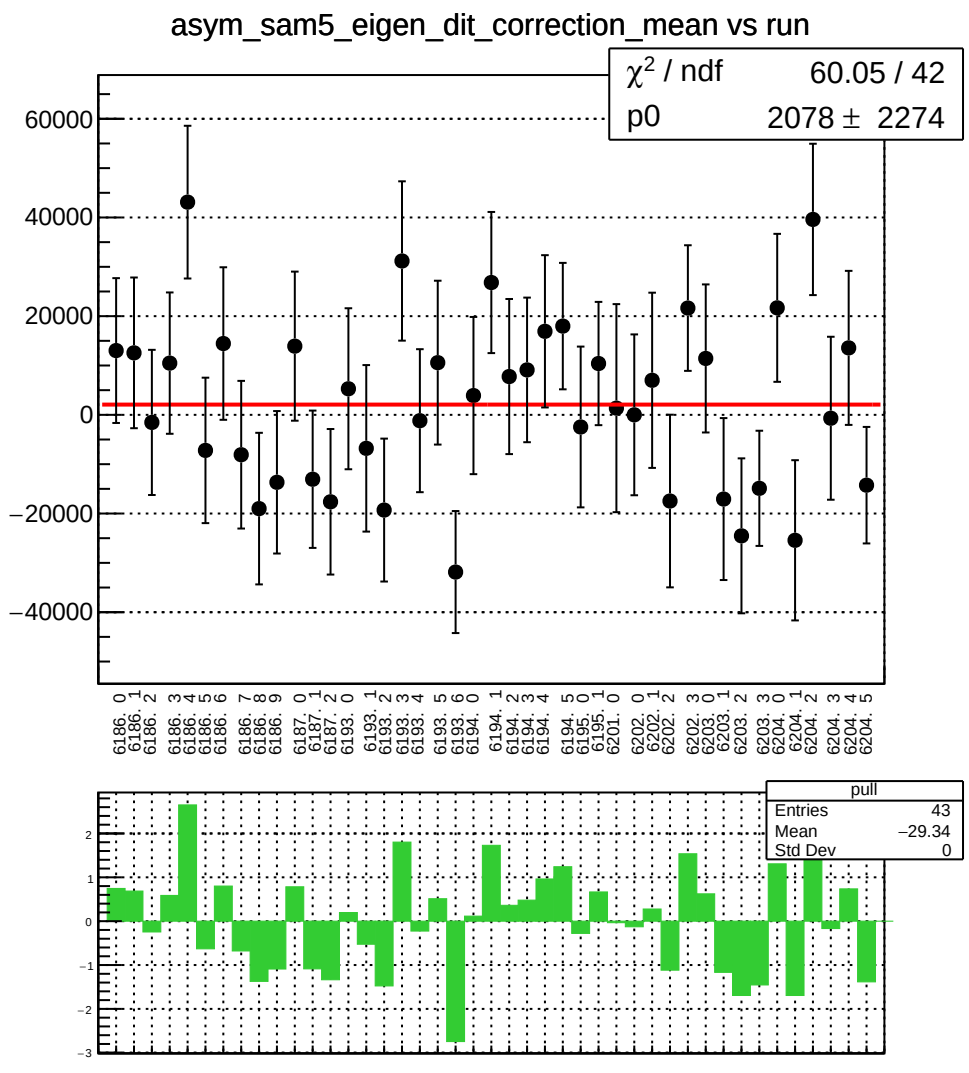
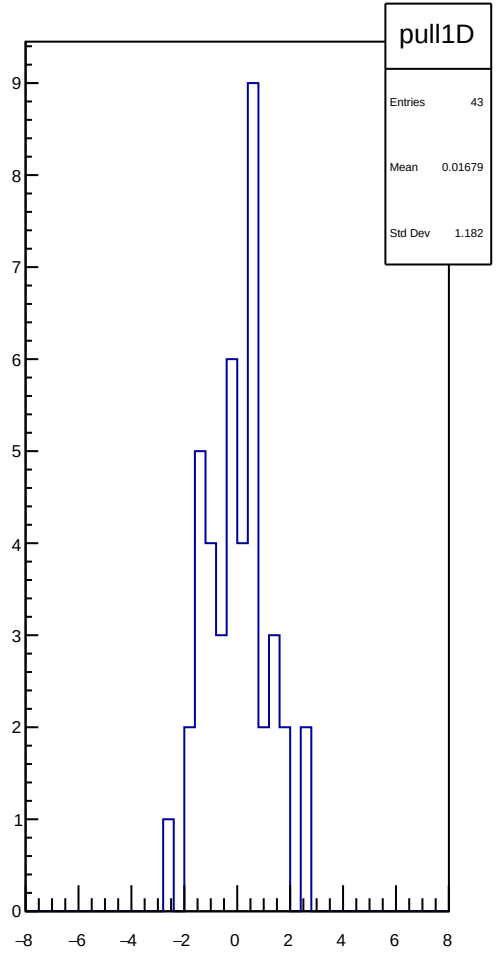
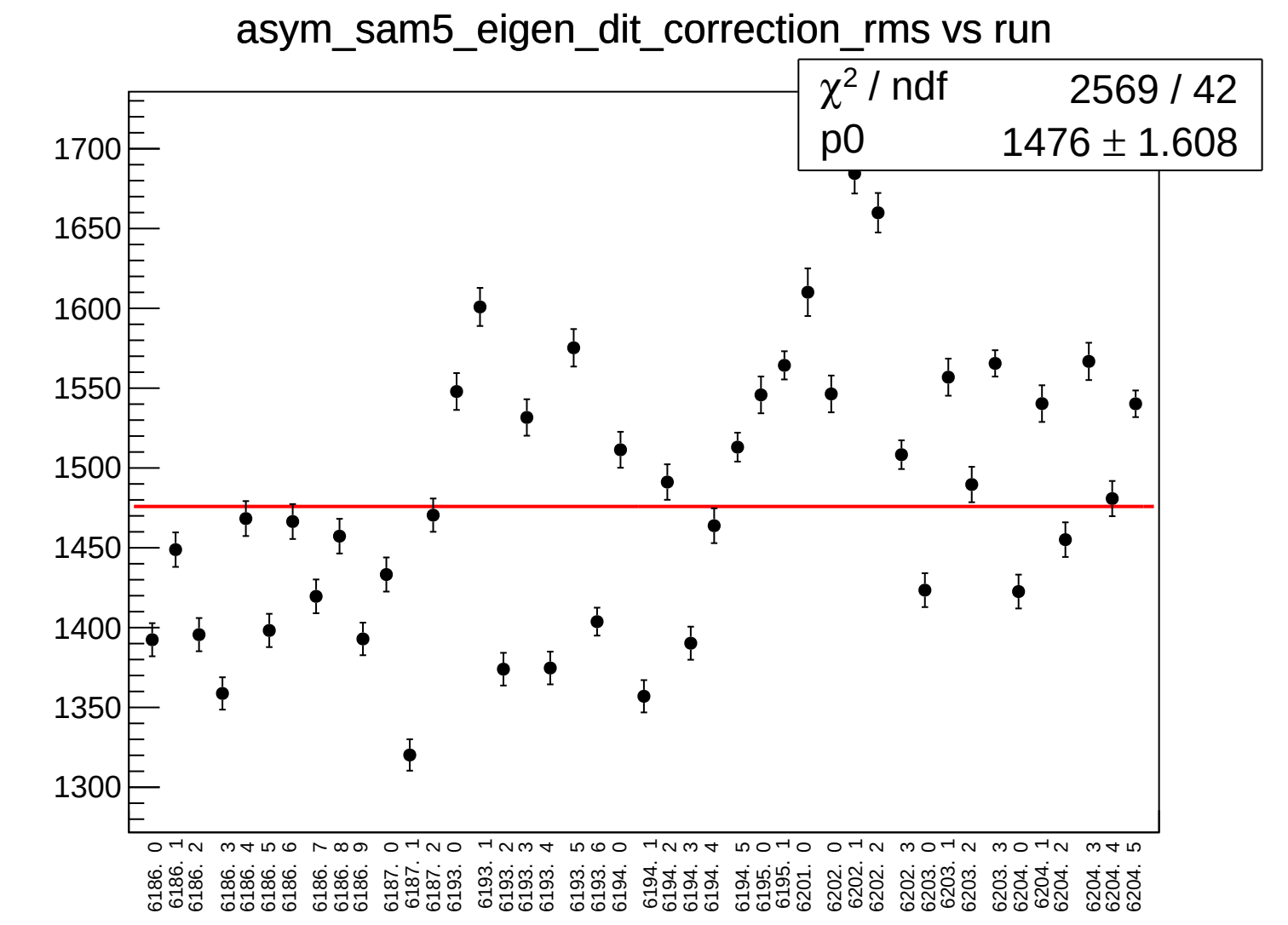
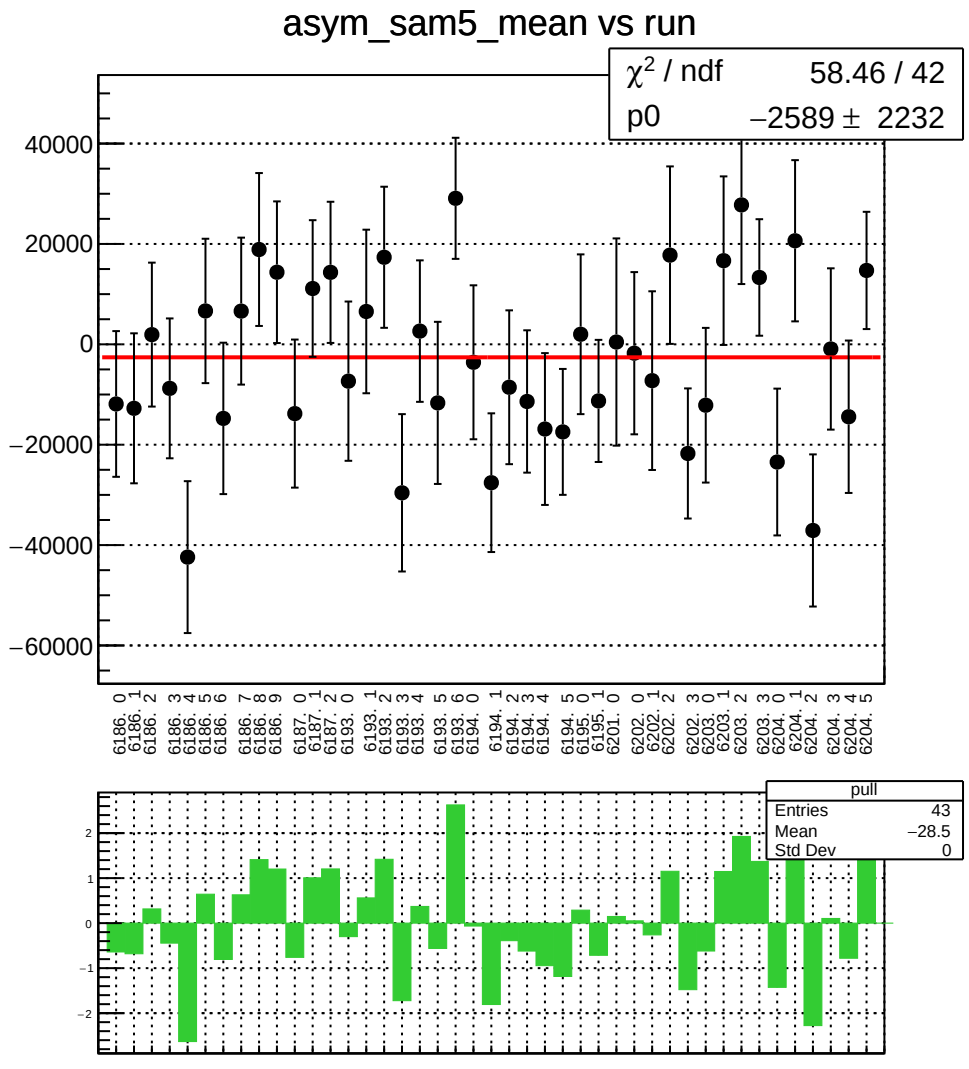
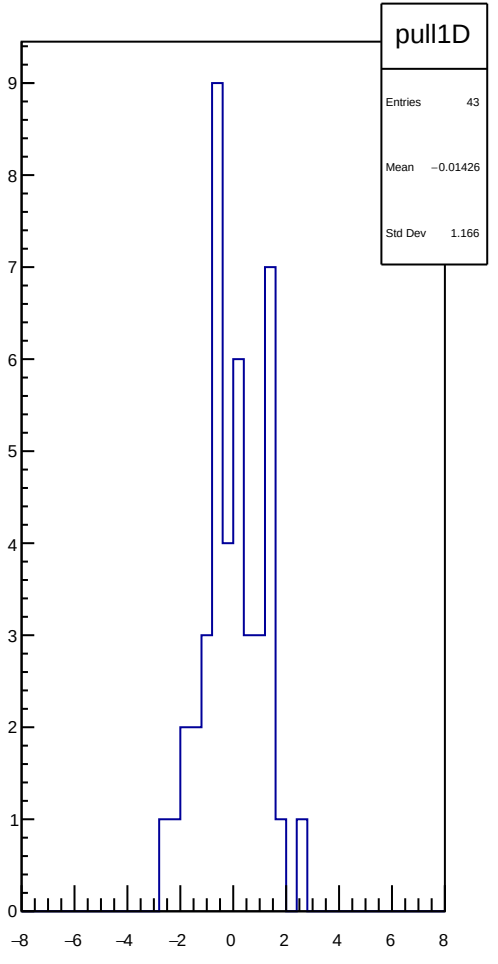
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

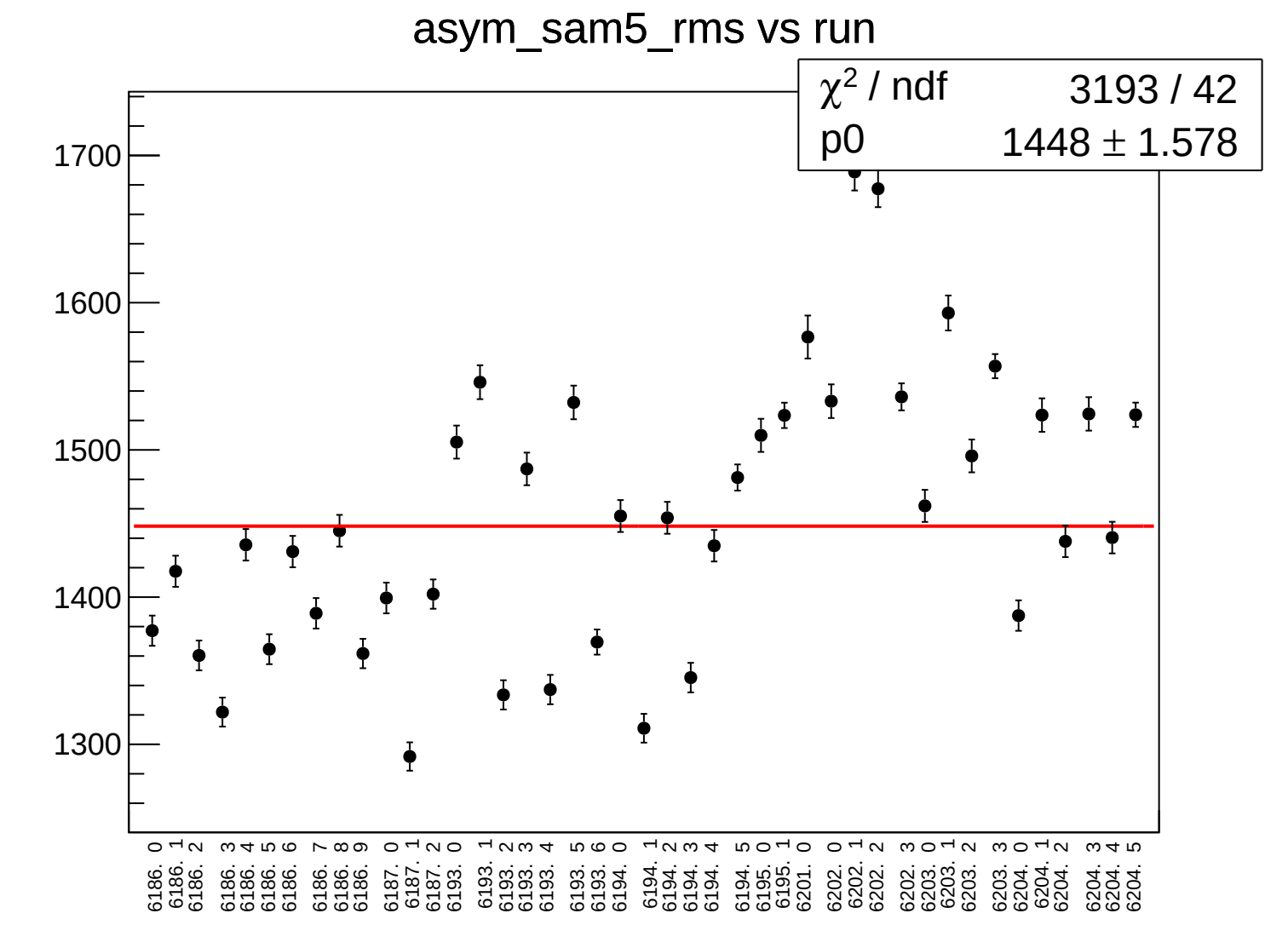

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 60.05 / 42
p0 2078 ± 2274
60000
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −29.34
Std Dev 0
2
1
0
−1
−2
−3

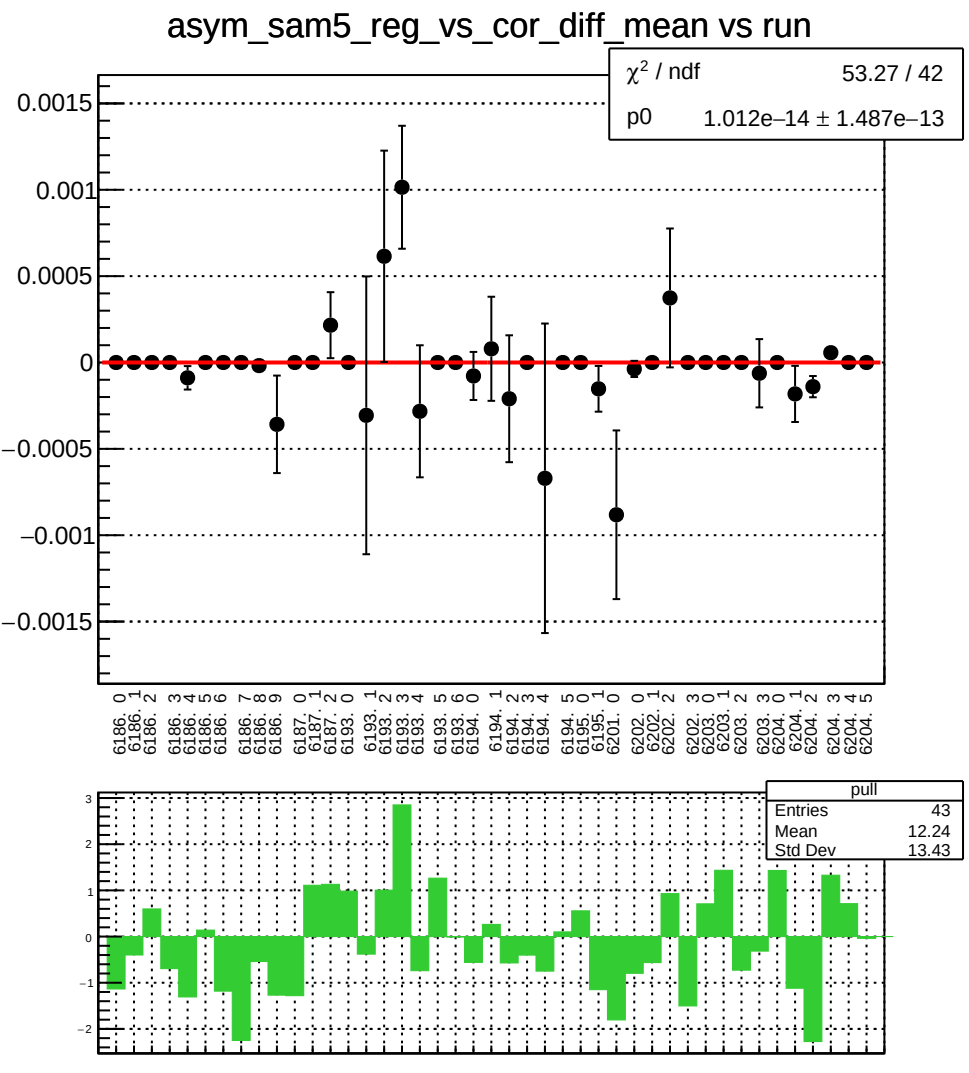

pull1D
Entries 43
Mean 0.01679
Std Dev 1.182
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

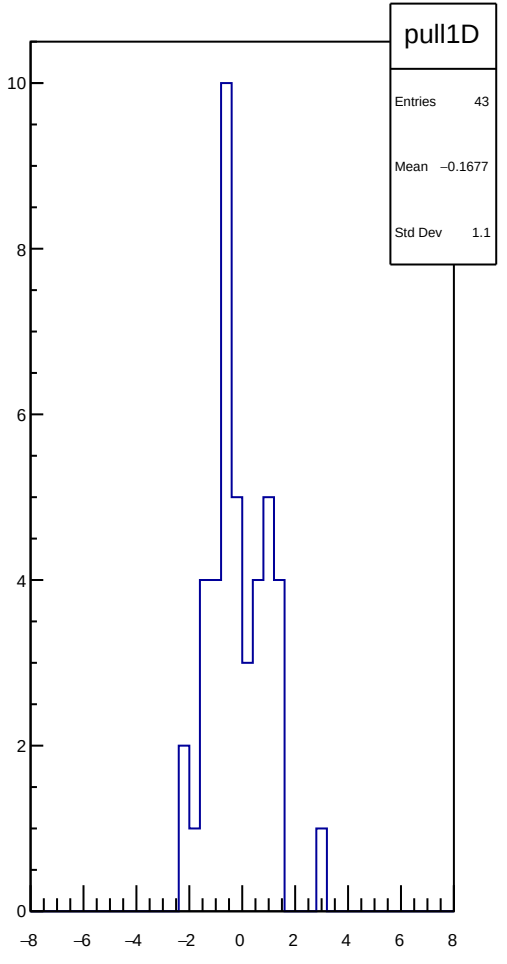

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 2569 / 42
p0 1476 ± 1.608
1700
1650
1600
1550
1500
1450
1400
1350
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

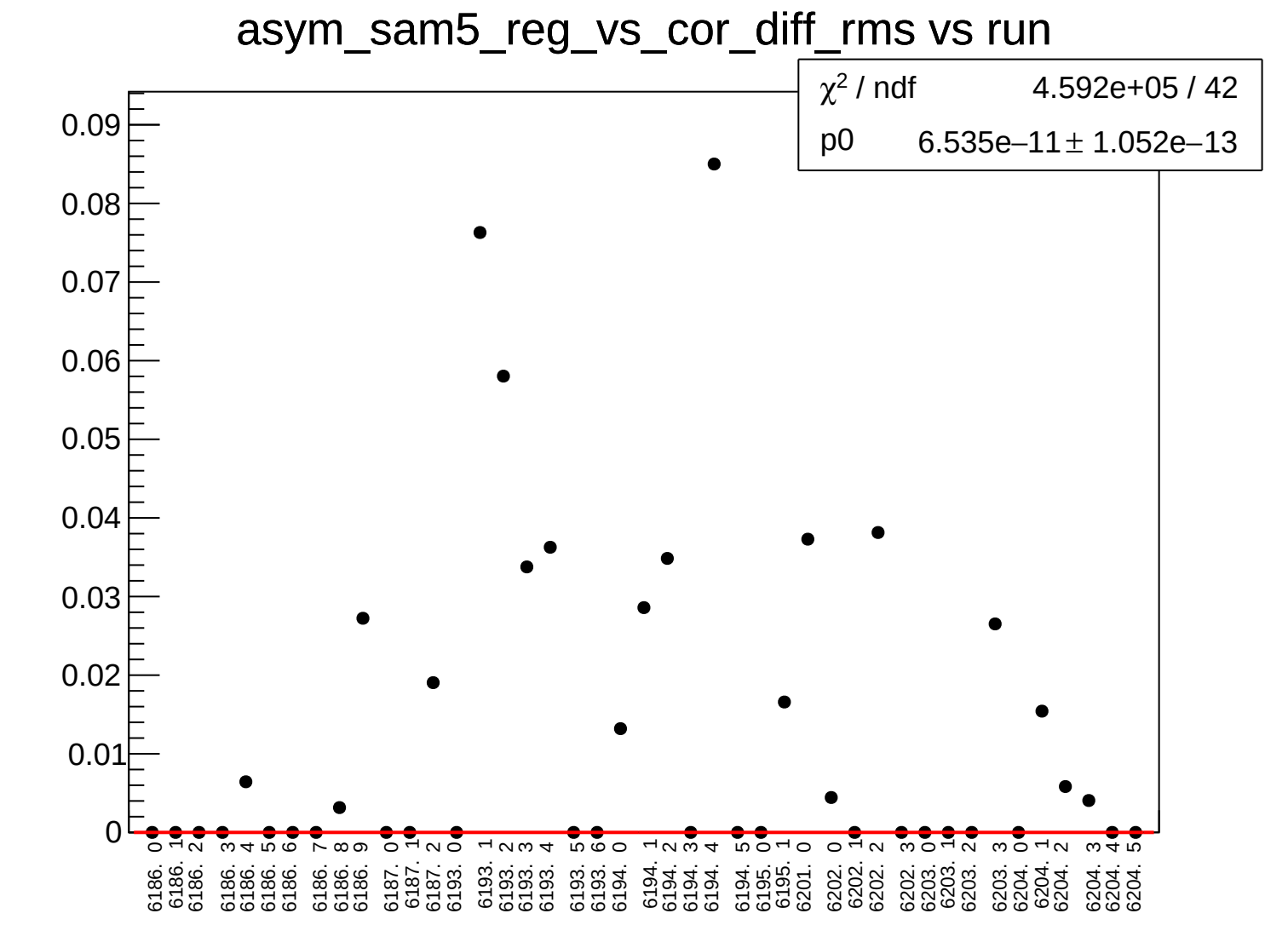

asym_sam5_mean vs run
χ² / ndf 58.46 / 42
p0 −2589 ± 2232
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −28.5
Std Dev 0
2
1
0
−1
−2

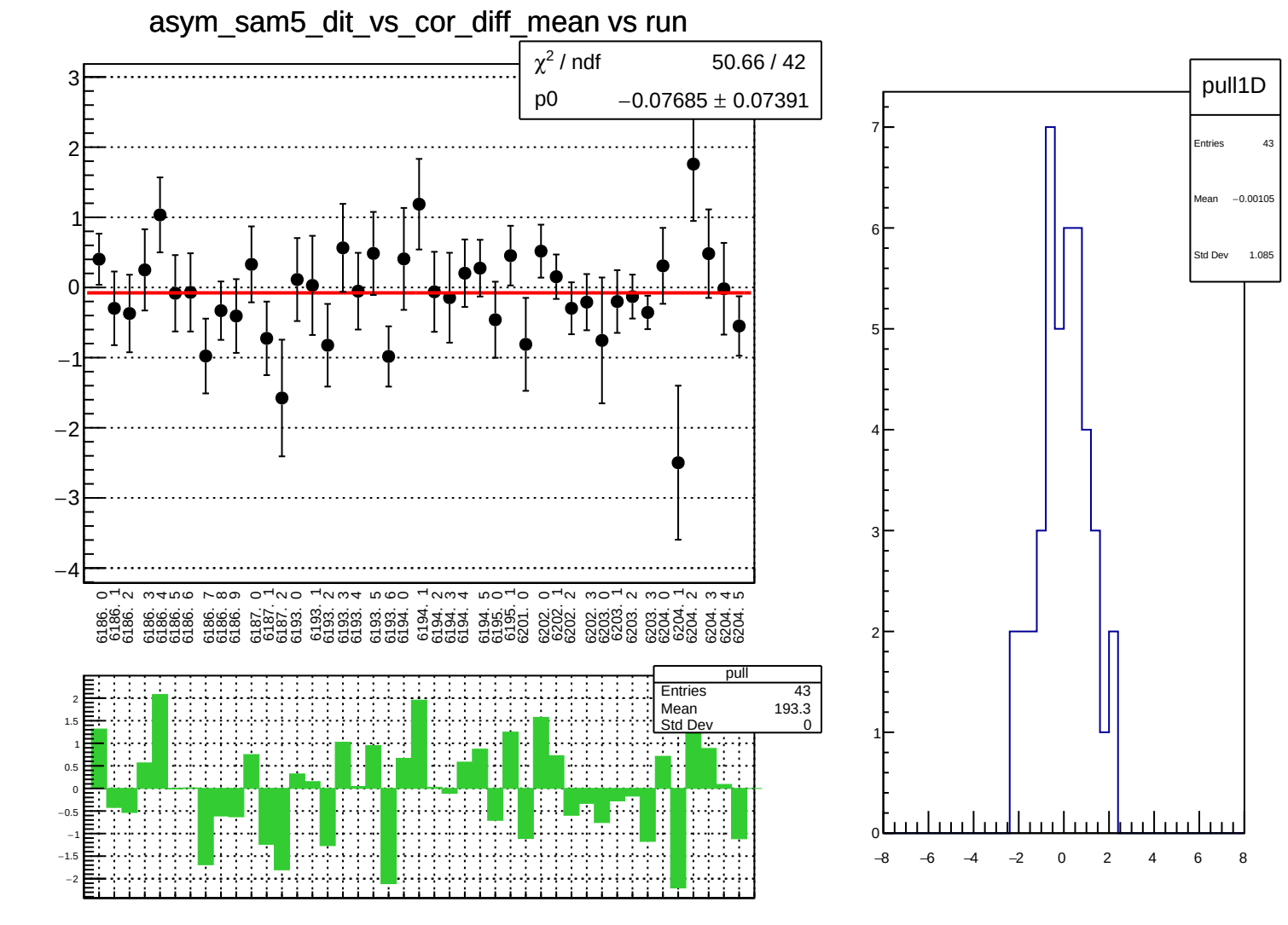

pull1D
Entries 43
Mean −0.01426
Std Dev 1.166
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

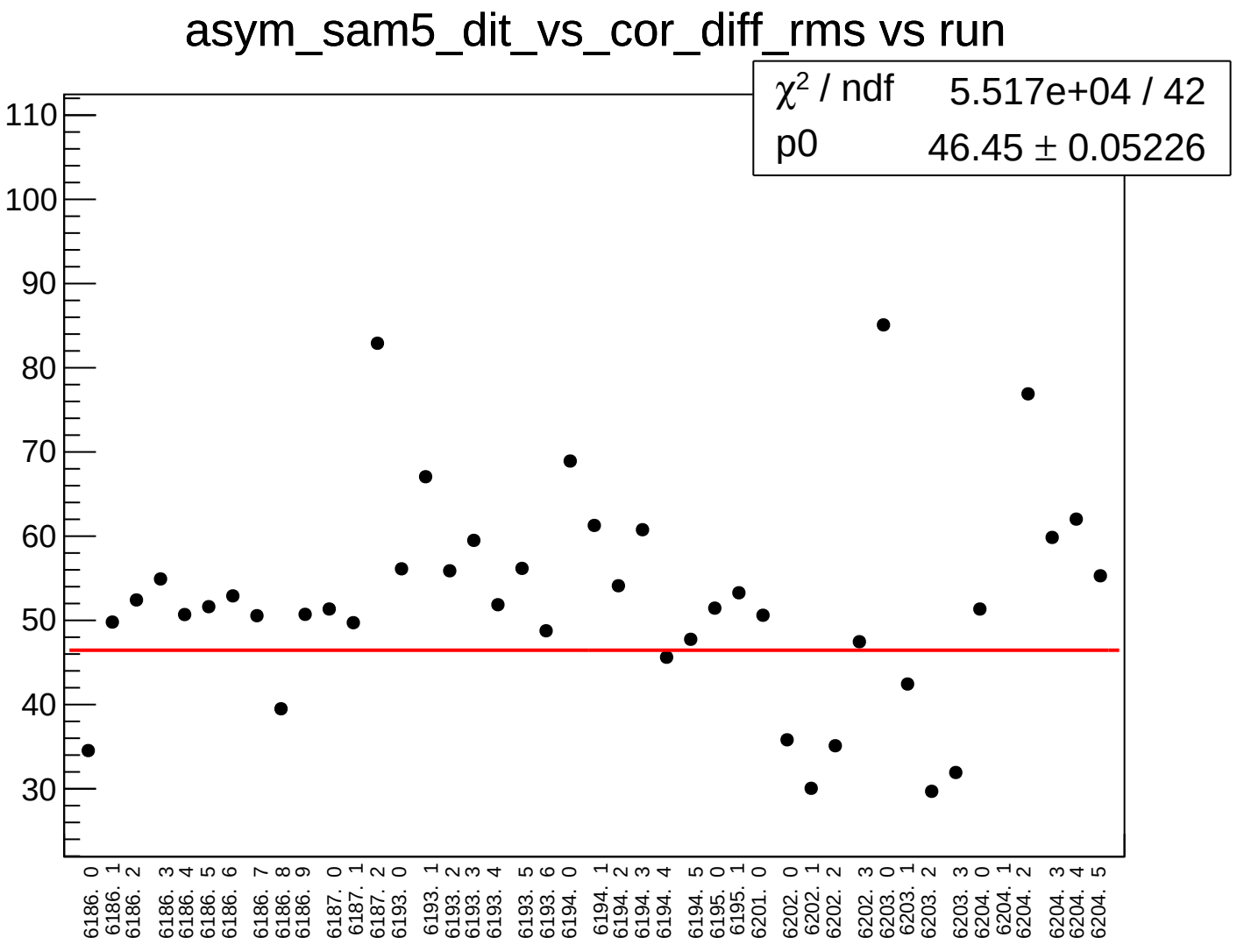

asym_sam5_rms vs run
χ² / ndf 3193 / 42
p0 1448 ± 1.578
1700
1600
1500
1400
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

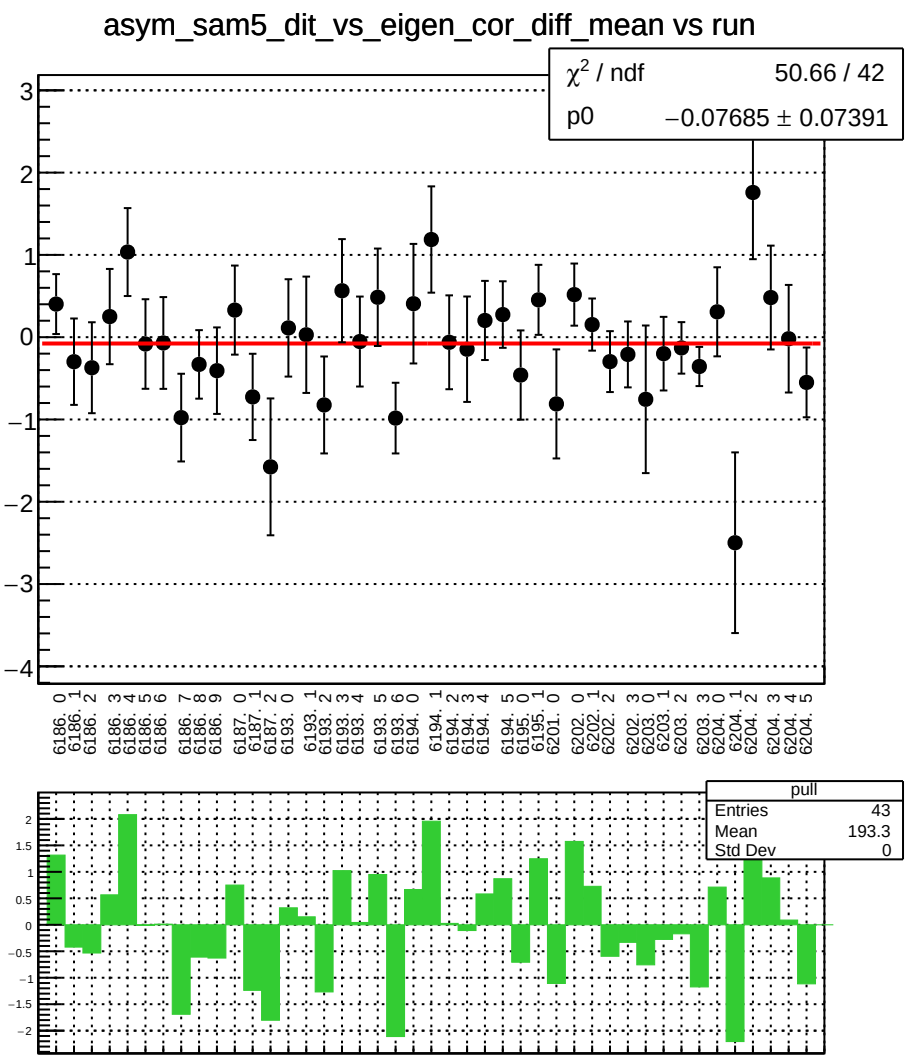

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 53.27 / 42
p0 1.012e−14 ± 1.487e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 12.24
Std Dev 13.43
3
2
1
0
−1
−2

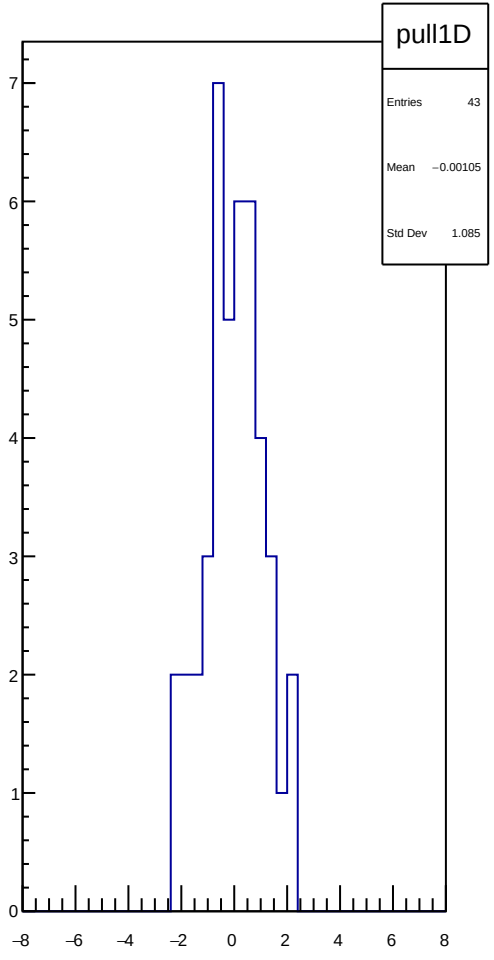

pull1D
Entries 43
Mean −0.1677
Std Dev 1.1
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

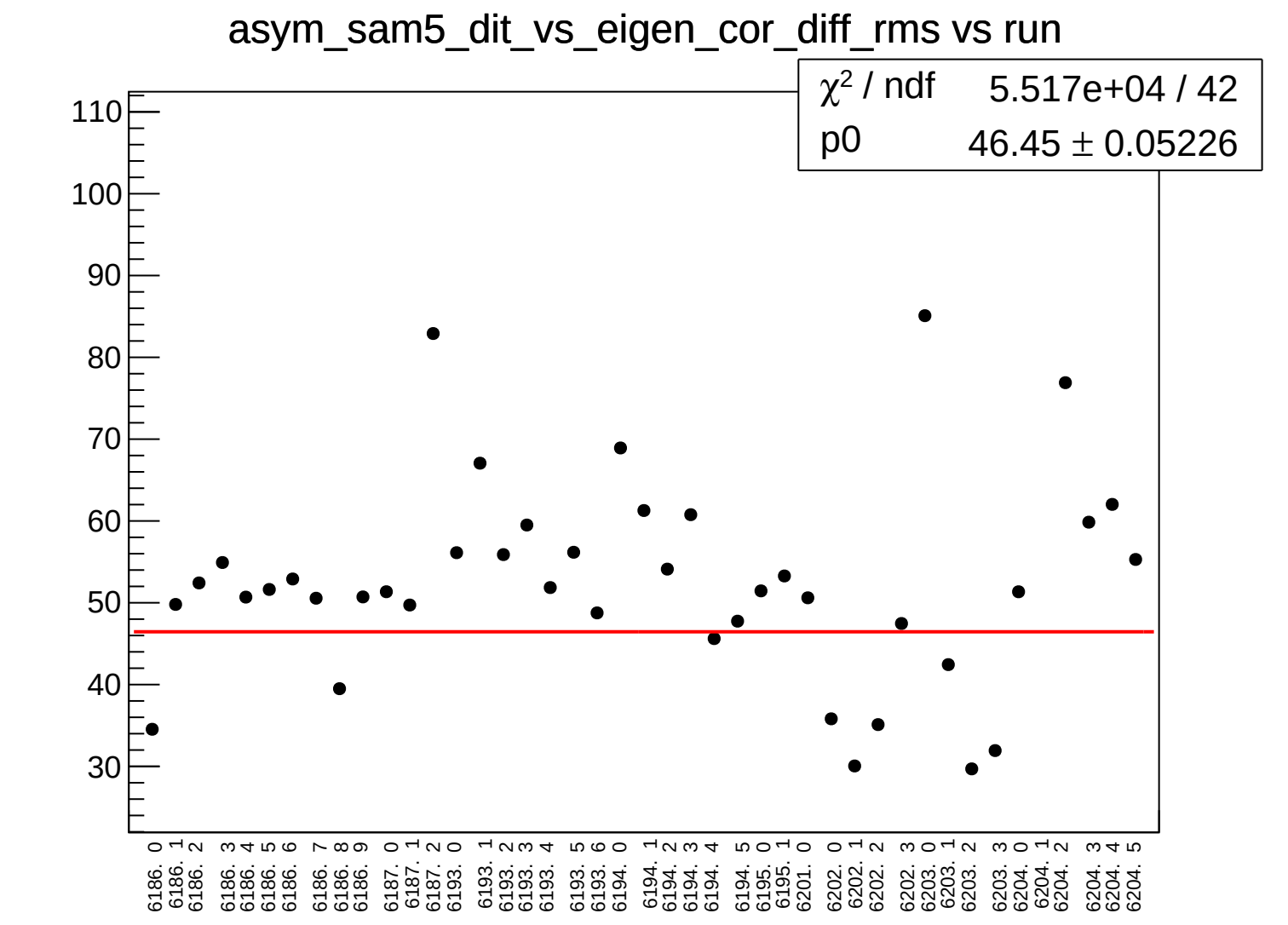

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 4.592e+05 / 42
p0 6.535e−11 ± 1.052e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

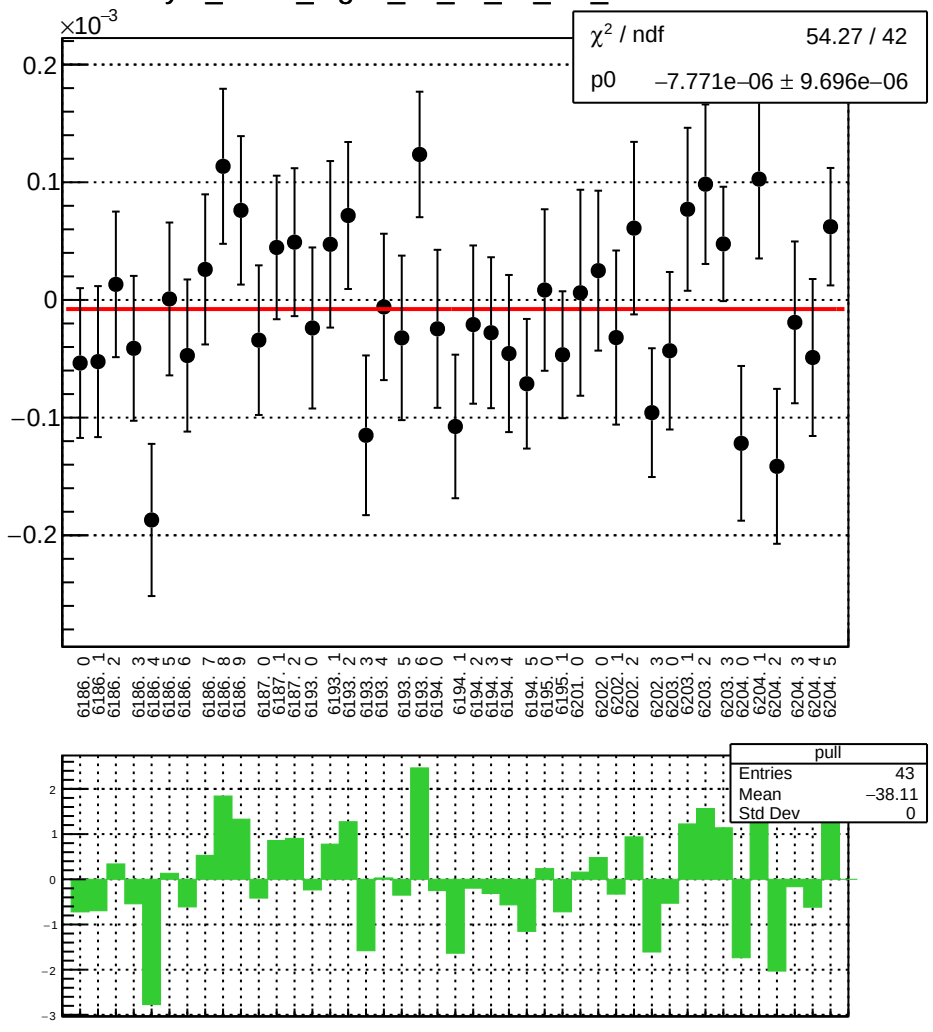

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 50.66 / 42
p0 −0.07685 ± 0.07391
pull
Entries 43
Mean 193.3
Std Dev 0
pull1D
Entries 43
Mean −0.00105
Std Dev 1.085

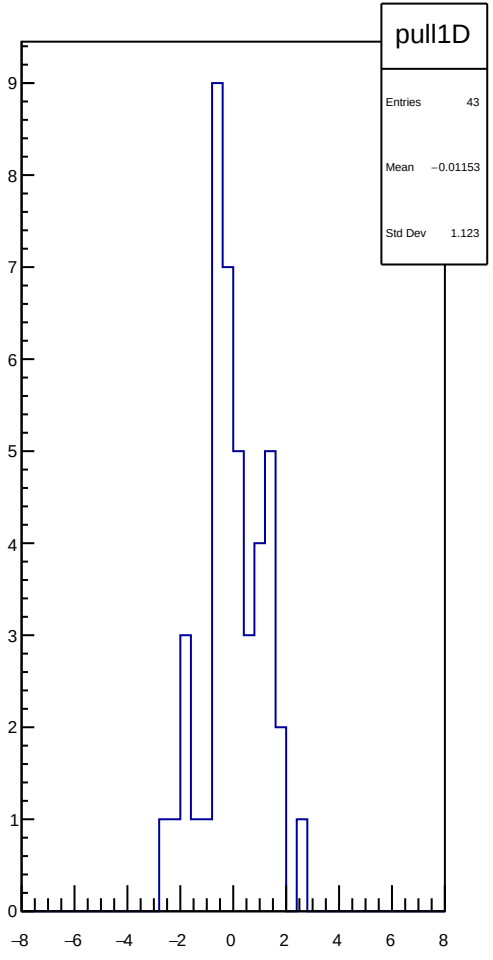

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 5.517e+04 / 42
p0 46.45 ± 0.05226
110
100
90
80
70
60
50
40
30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

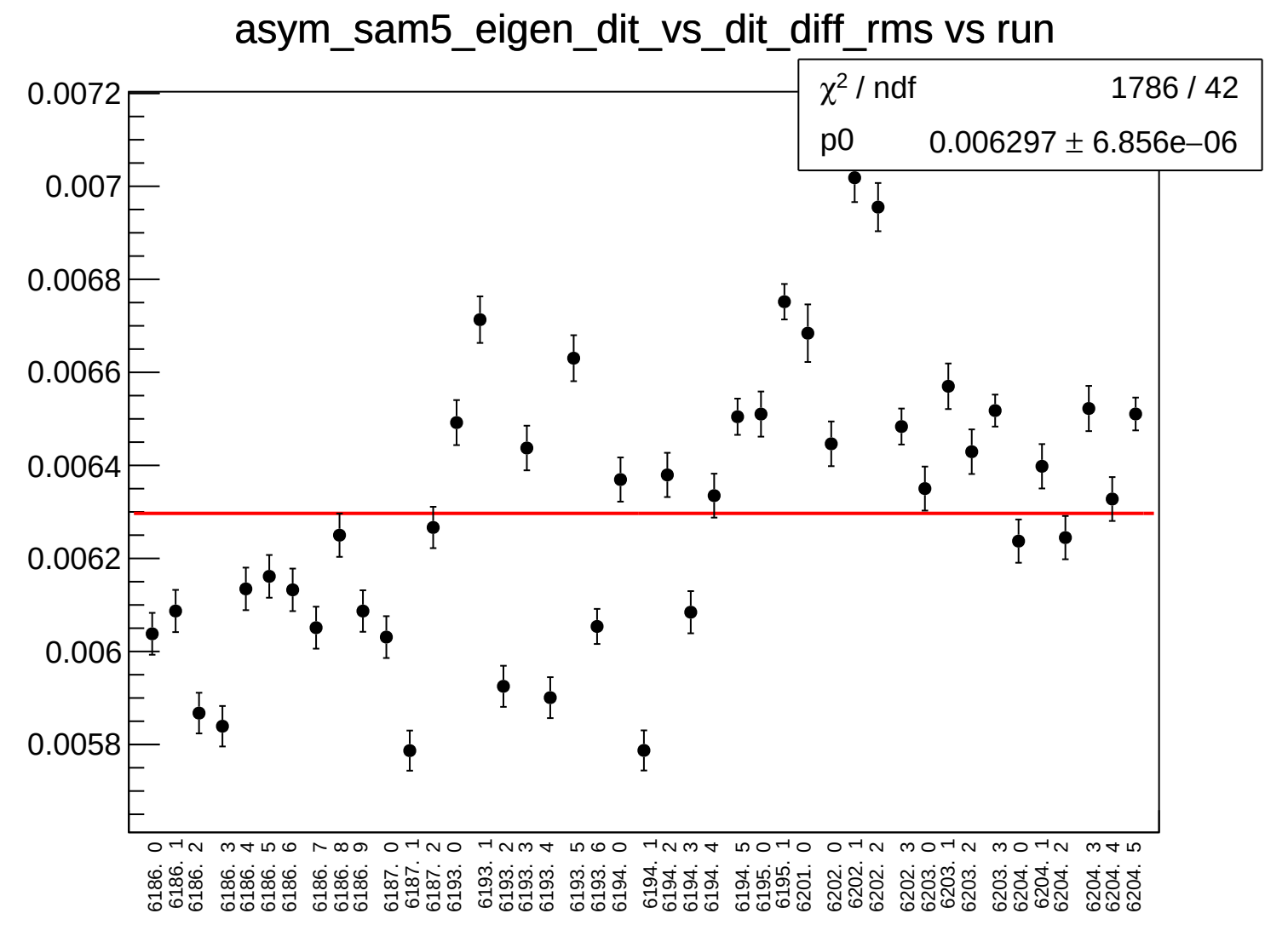

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.66 / 42
p0 −0.07685 ± 0.07391
pull
Entries 43
Mean 193.3
Std Dev 0

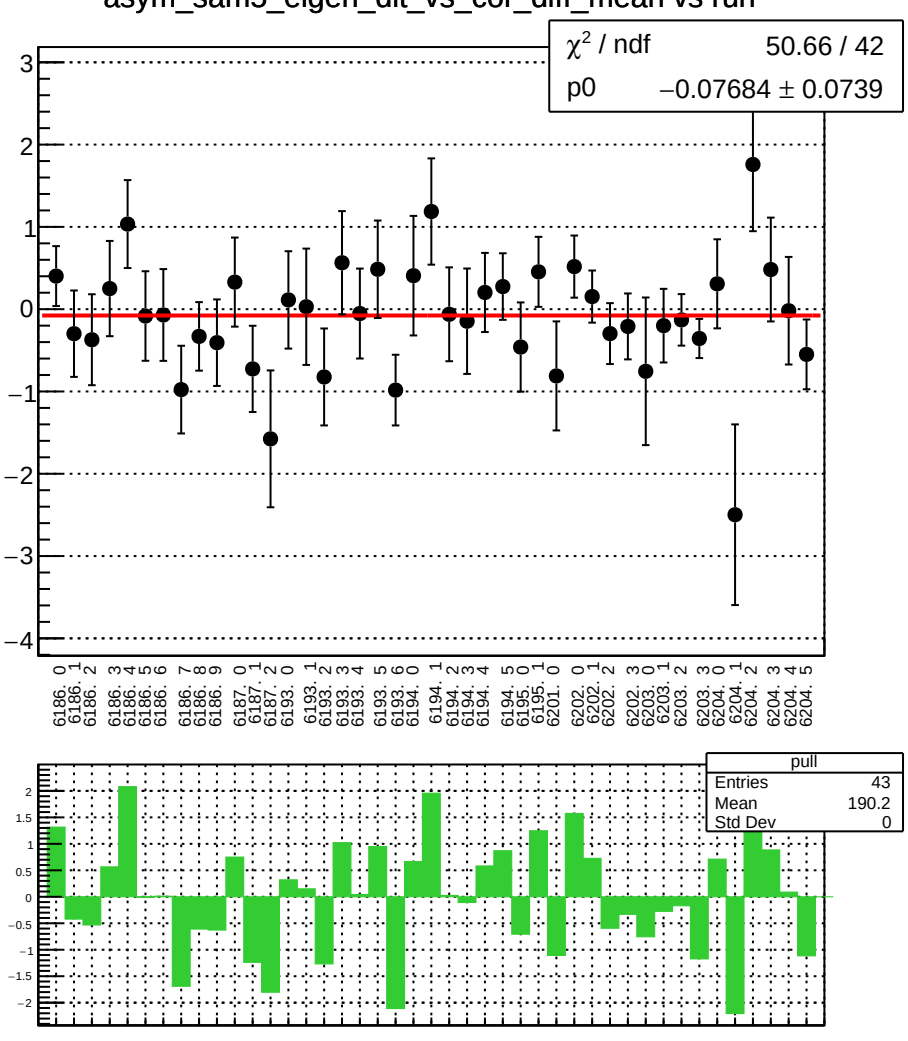

pull1D
Entries 43
Mean −0.00105
Std Dev 1.085

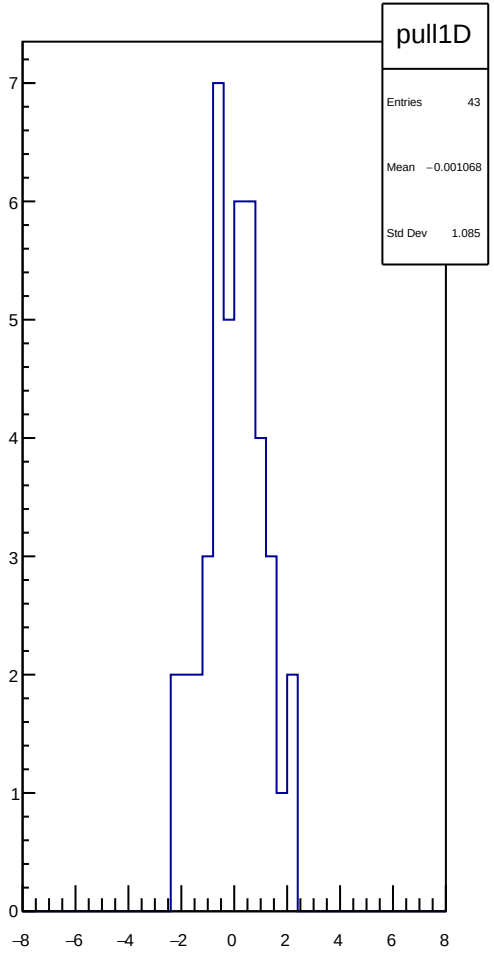

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.517e+04 / 42
p0 46.45 ± 0.05226
110
100
90
80
70
60
50
40
30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

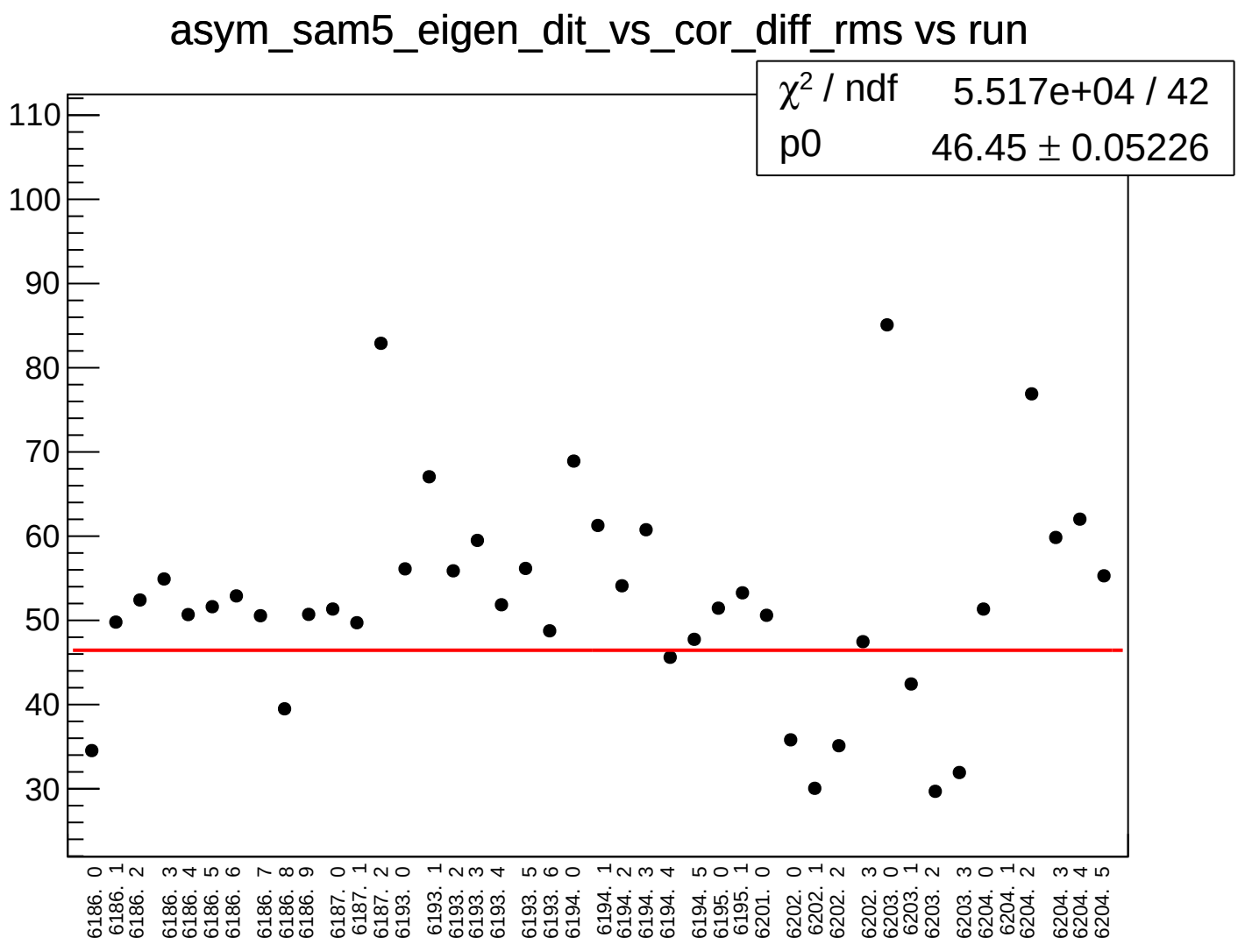

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 54.27 / 42
p0 −7.771e−06 ± 9.696e−06
0.2
0.1
0
−0.1
−0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −38.11
Std Dev 0
2
1
0
−1
−2
−3

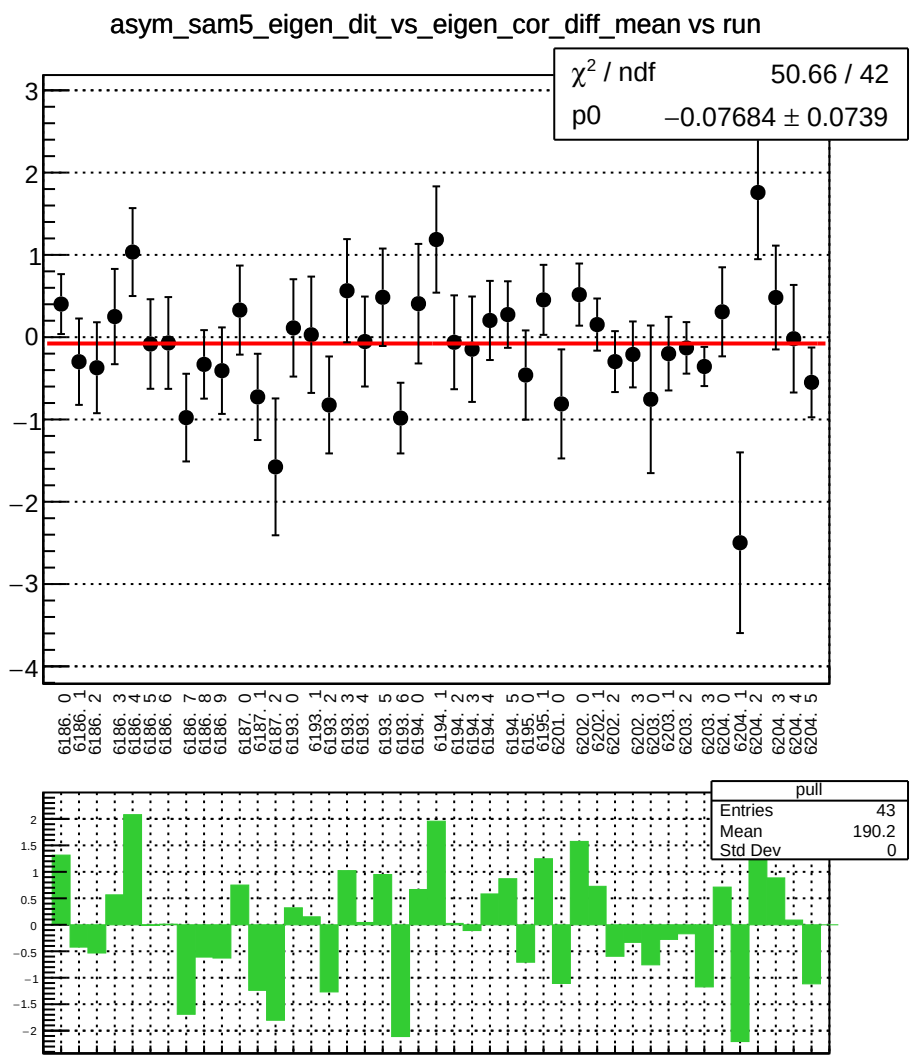

pull1D
Entries 43
Mean −0.01153
Std Dev 1.123
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

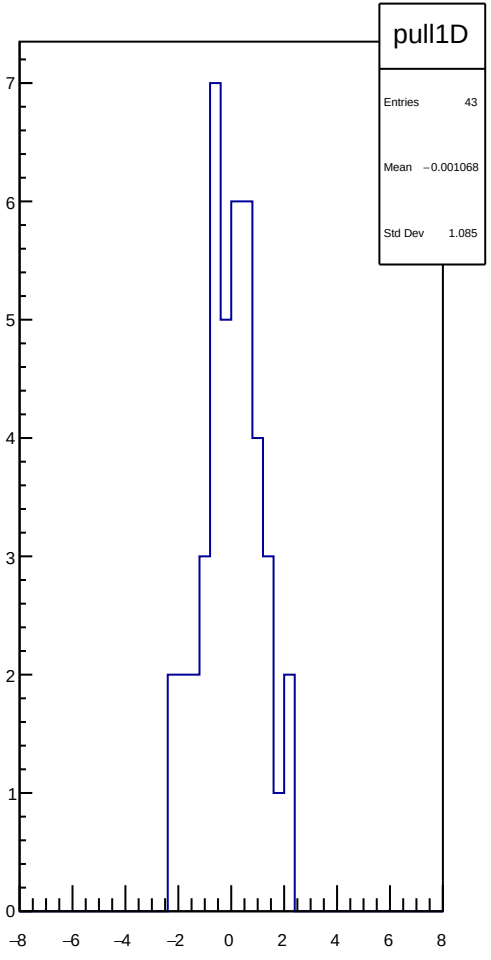

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1786 / 42
p0 0.006297 ± 6.856e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

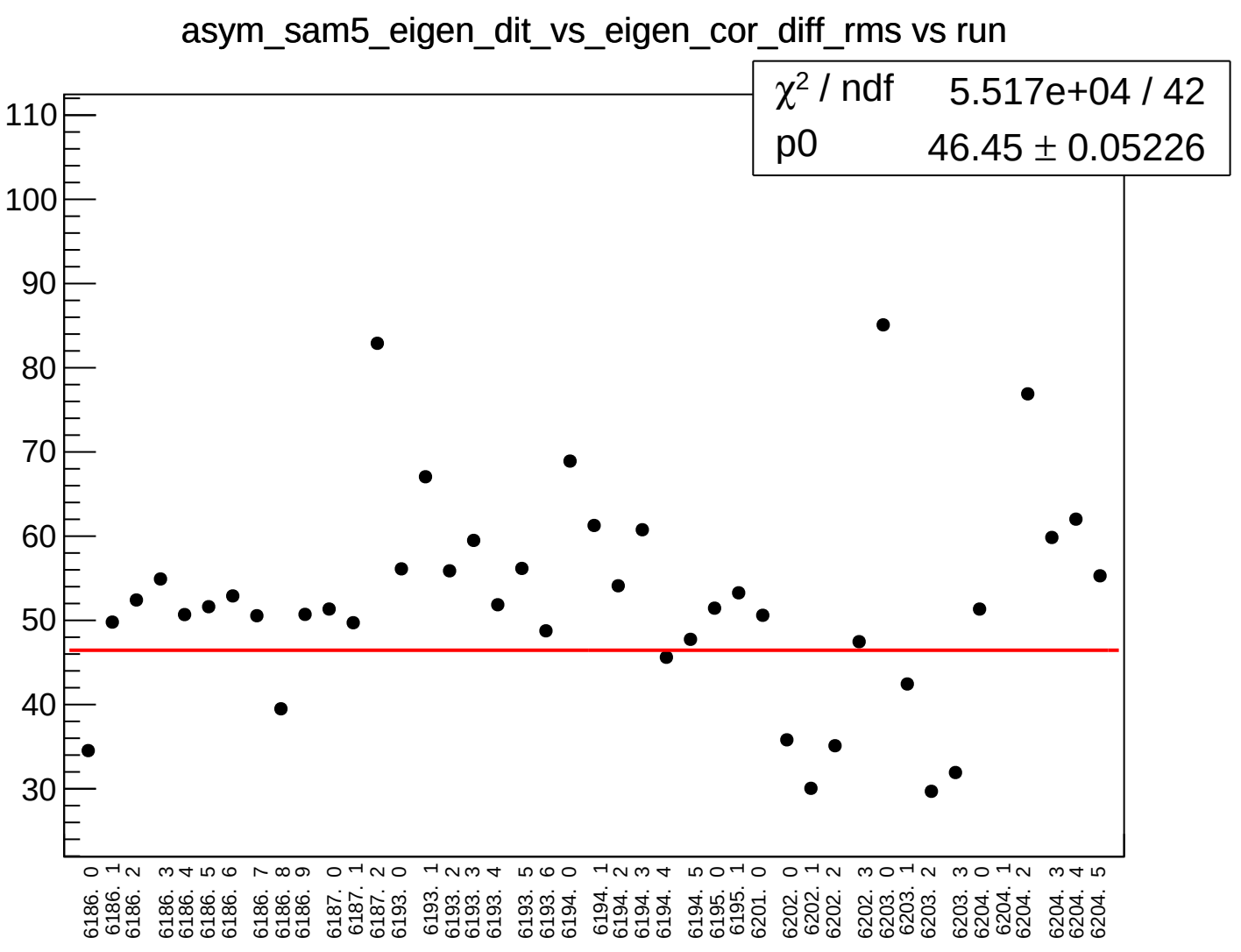

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.66 / 42
p0 −0.07684 ± 0.0739
pull
Entries 43
Mean 190.2
Std Dev 0

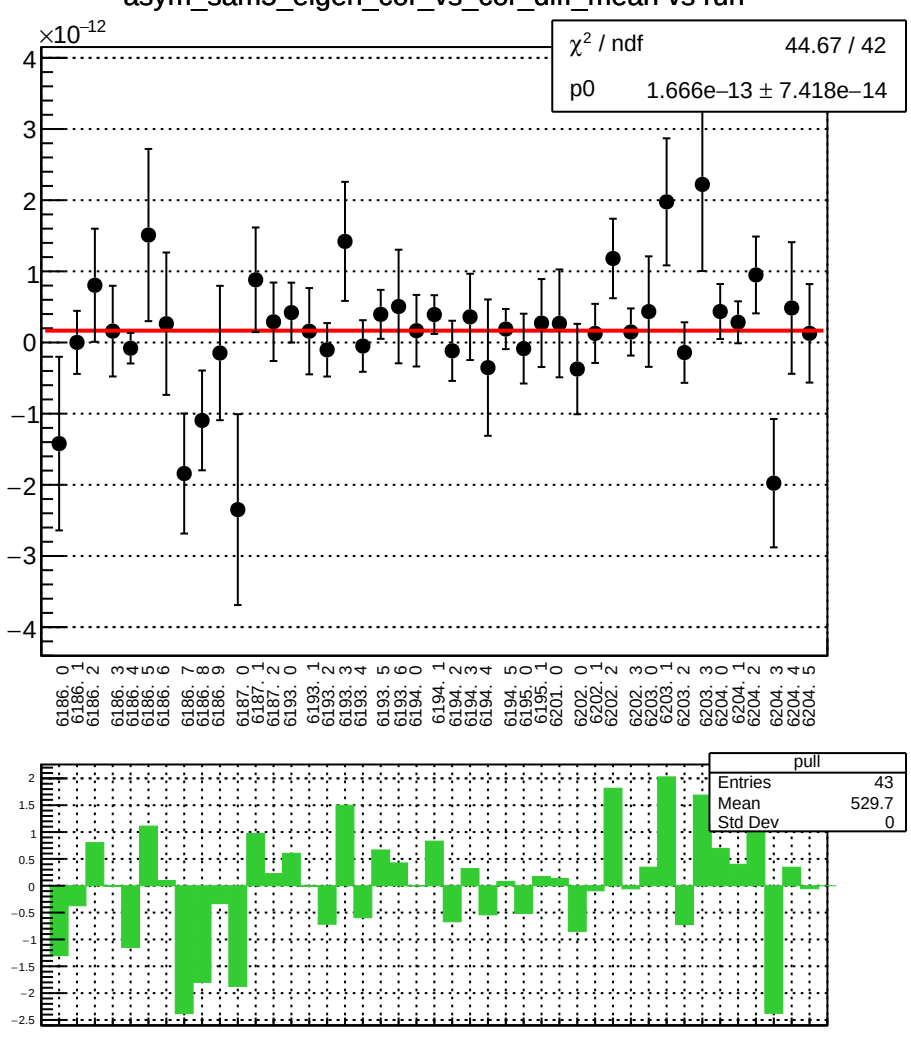

pull1D
Entries 43
Mean −0.001068
Std Dev 1.085

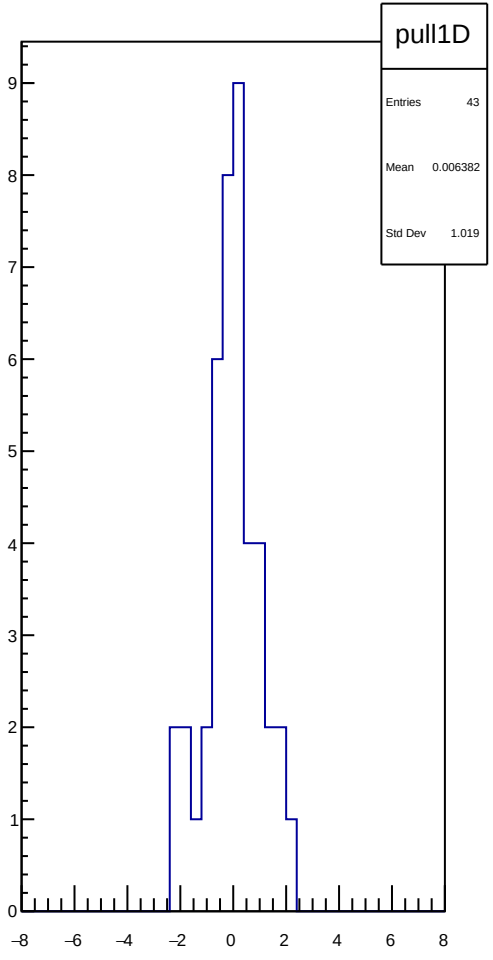

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.517e+04 / 42
p0 46.45 ± 0.05226
110
100
90
80
70
60
50
40
30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

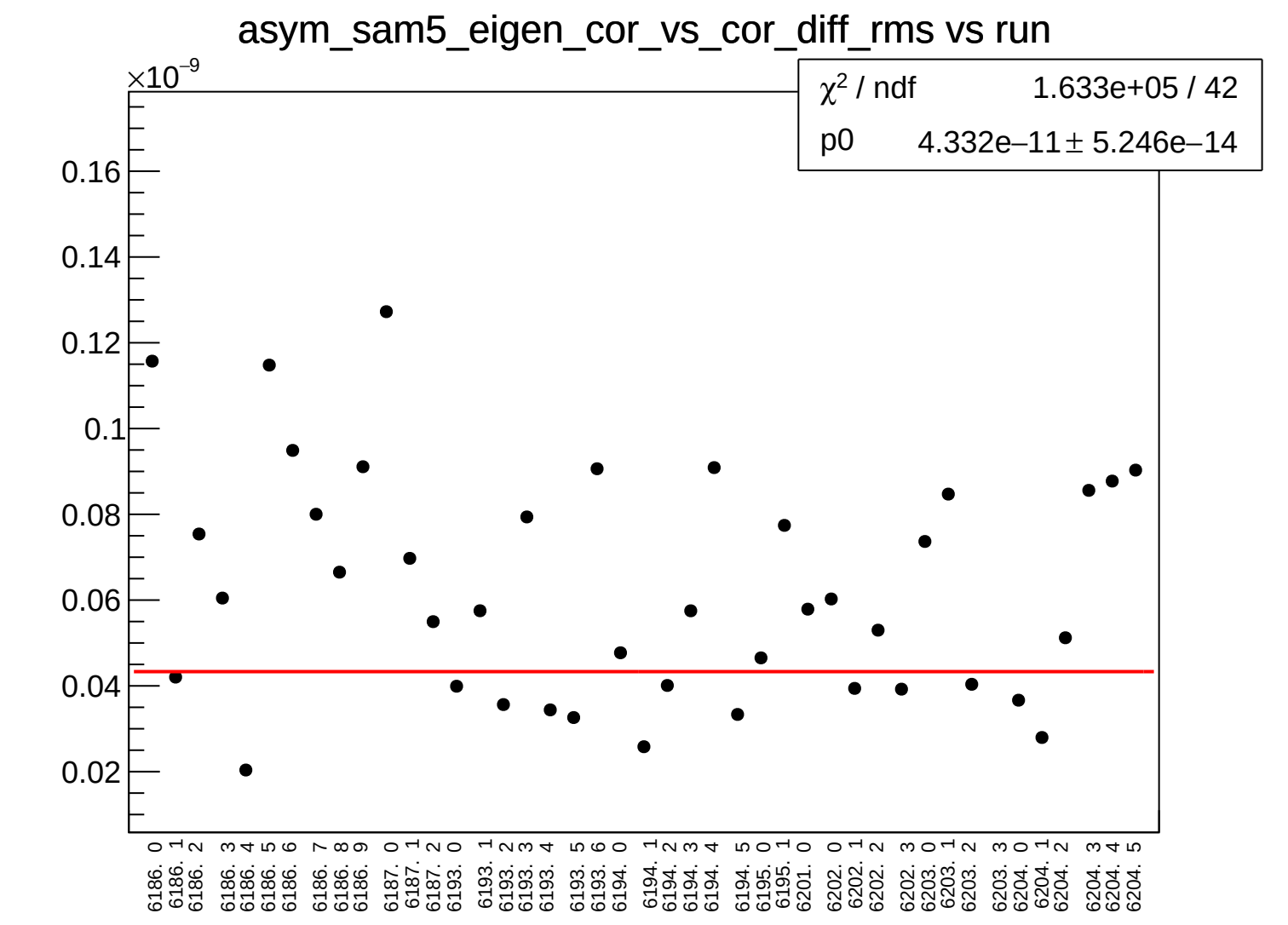

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.66 / 42
p0 −0.07684 ± 0.0739
pull
Entries 43
Mean 190.2
Std Dev 0

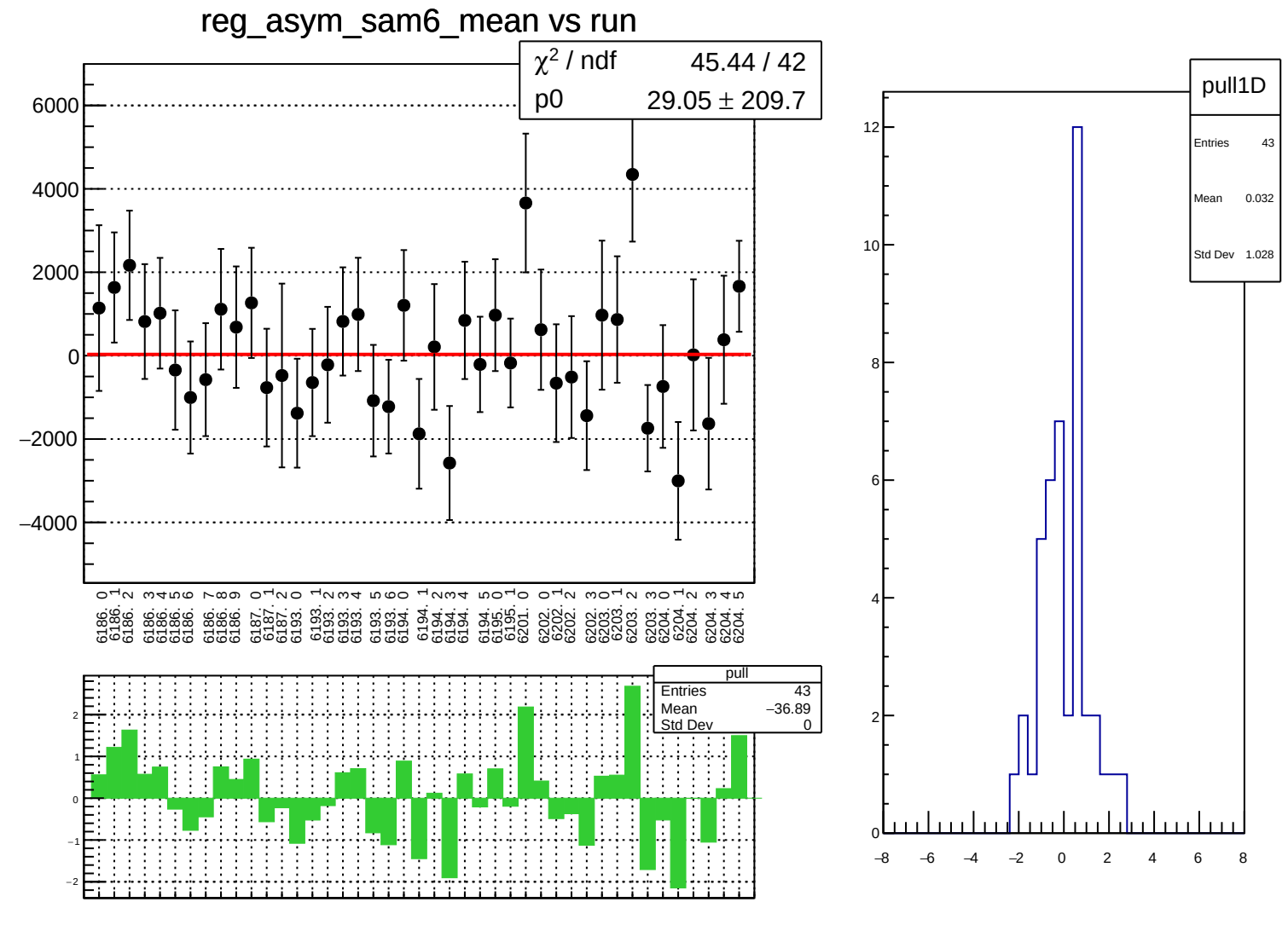

pull1D
Entries 43
Mean −0.001068
Std Dev 1.085

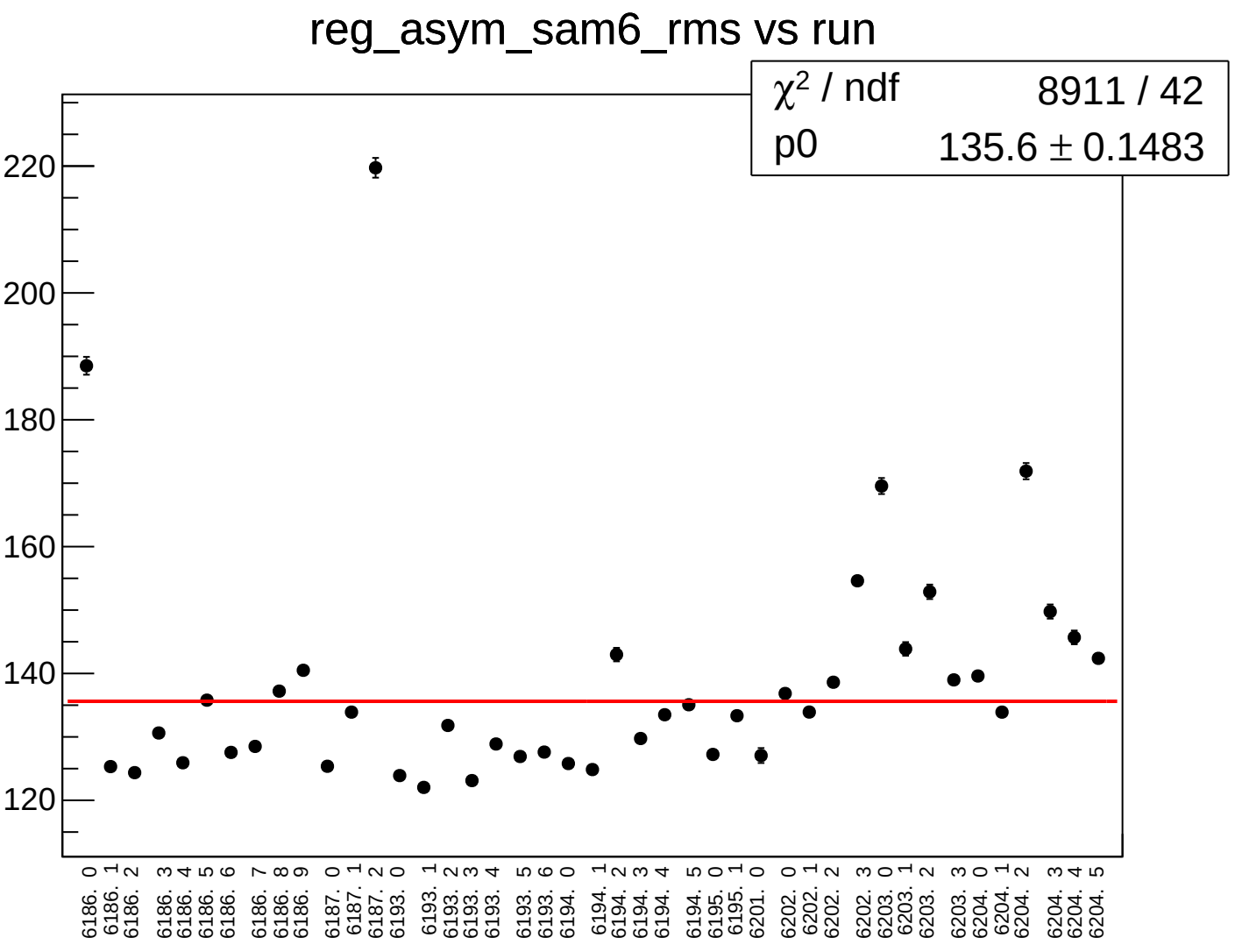

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.517e+04 / 42
p0 46.45 ± 0.05226
110
100
90
80
70
60
50
40
30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

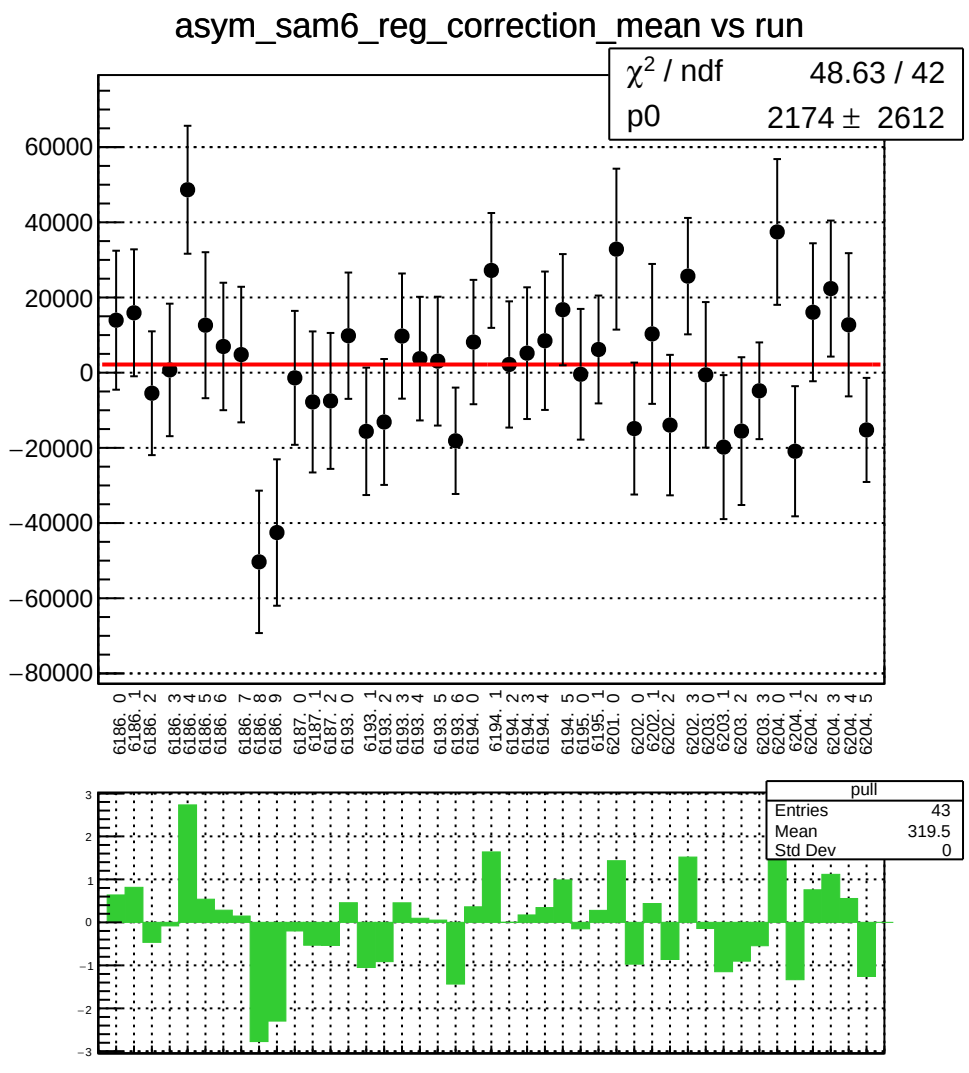

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 44.67 / 42
p0 1.666e−13 ± 7.418e−14
pull
Entries 43
Mean 529.7
Std Dev 0

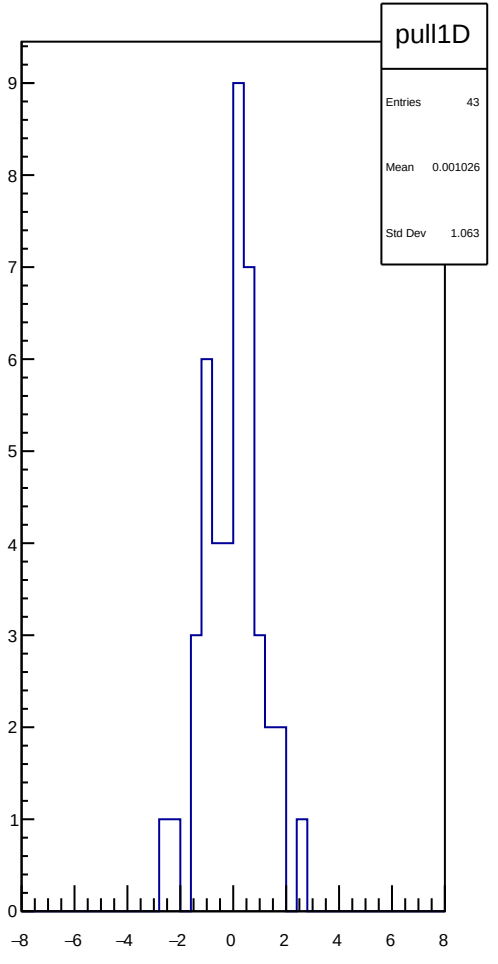

pull1D
Entries 43
Mean 0.006382
Std Dev 1.019

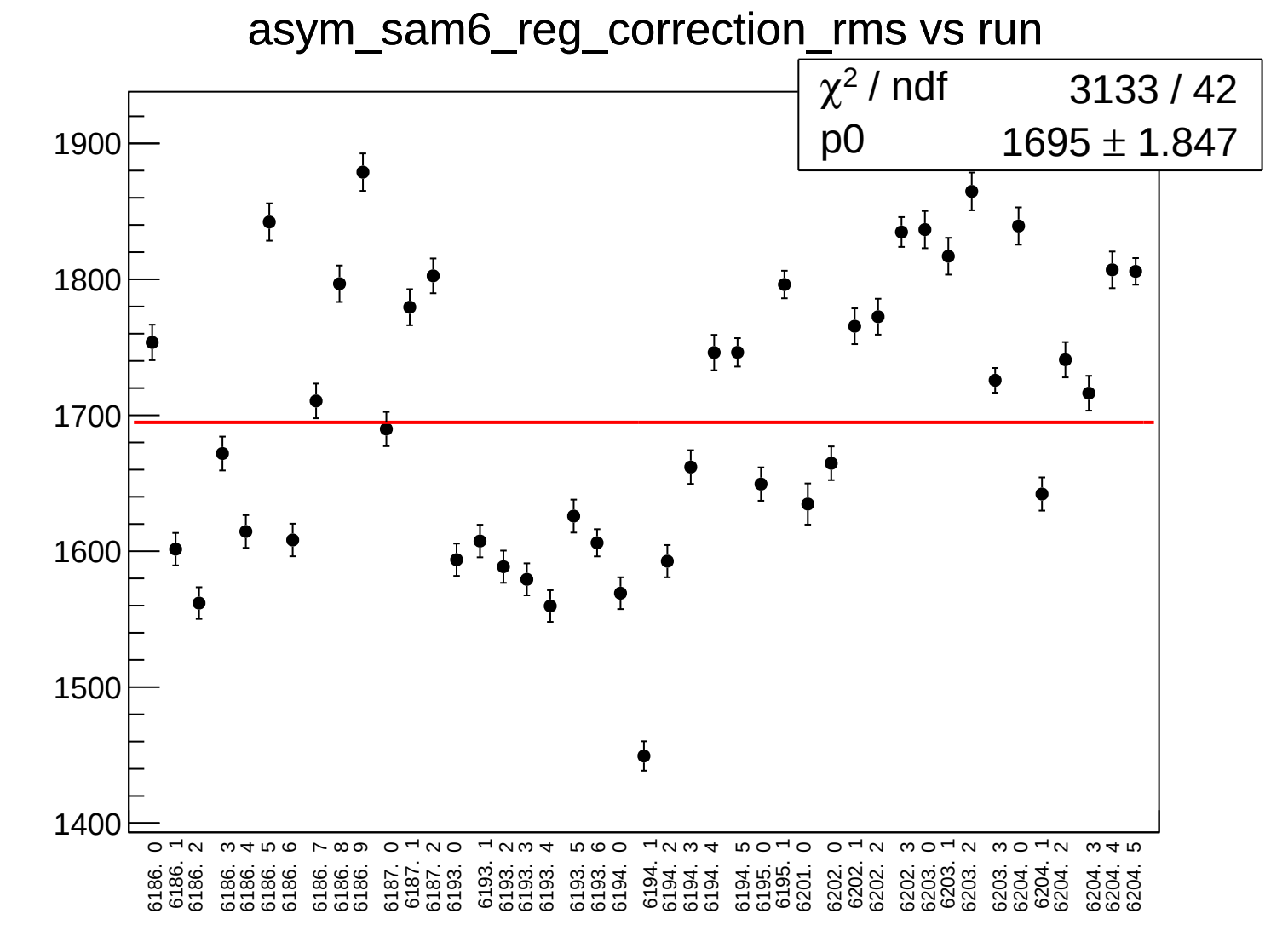

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.633e+05 / 42
p0 4.332e−11 ± 5.246e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

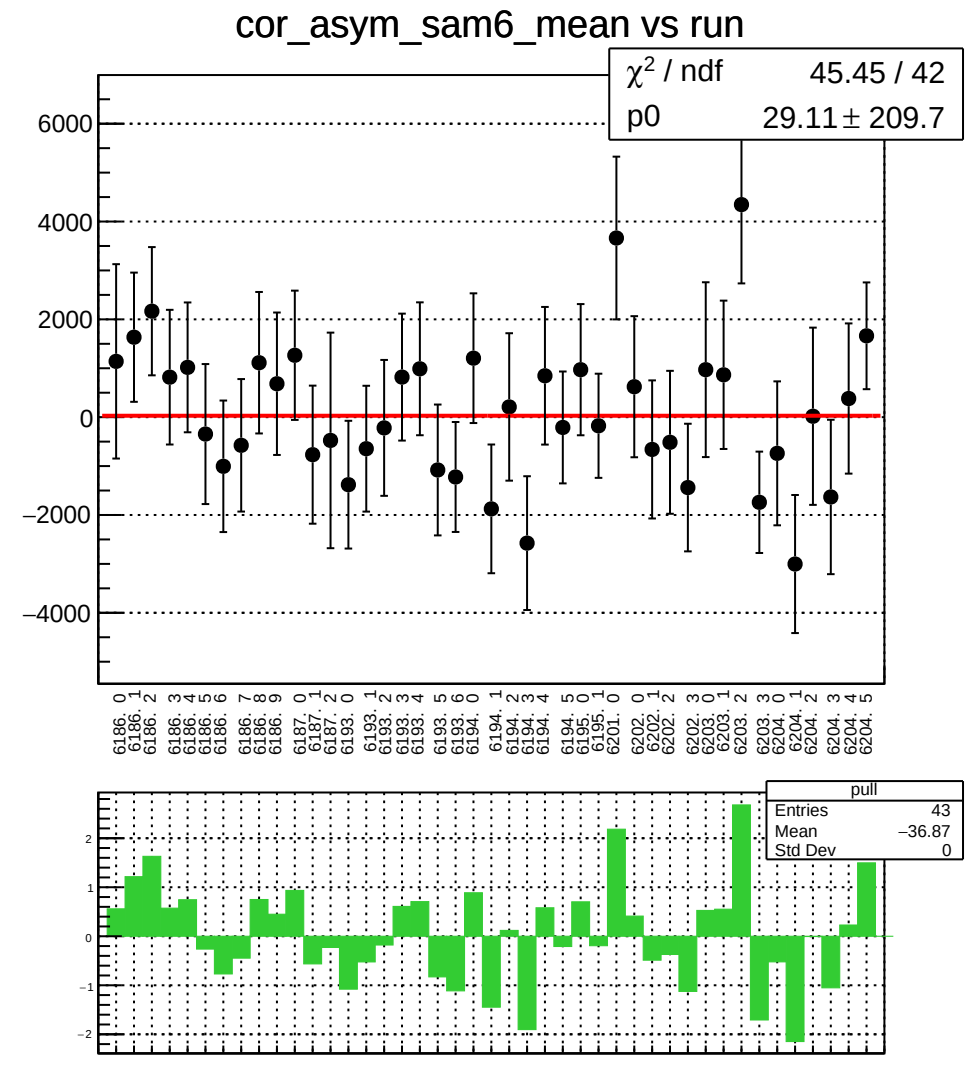

reg_asym_sam6_mean vs run
χ² / ndf 45.44 / 42
p0 29.05 ± 209.7
6000
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −36.89
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.032
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

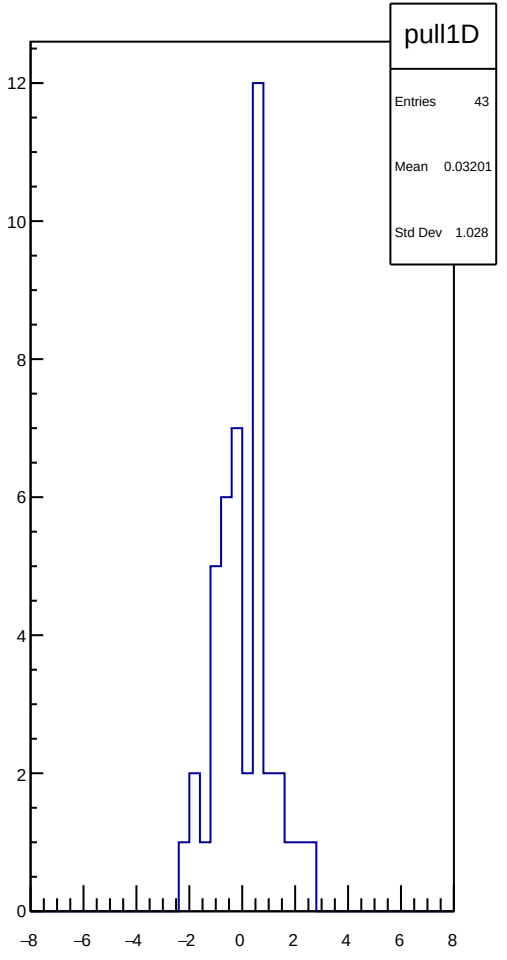

reg_asym_sam6_rms vs run
χ² / ndf 8911 / 42
p0 135.6 ± 0.1483
220
200
180
160
140
120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

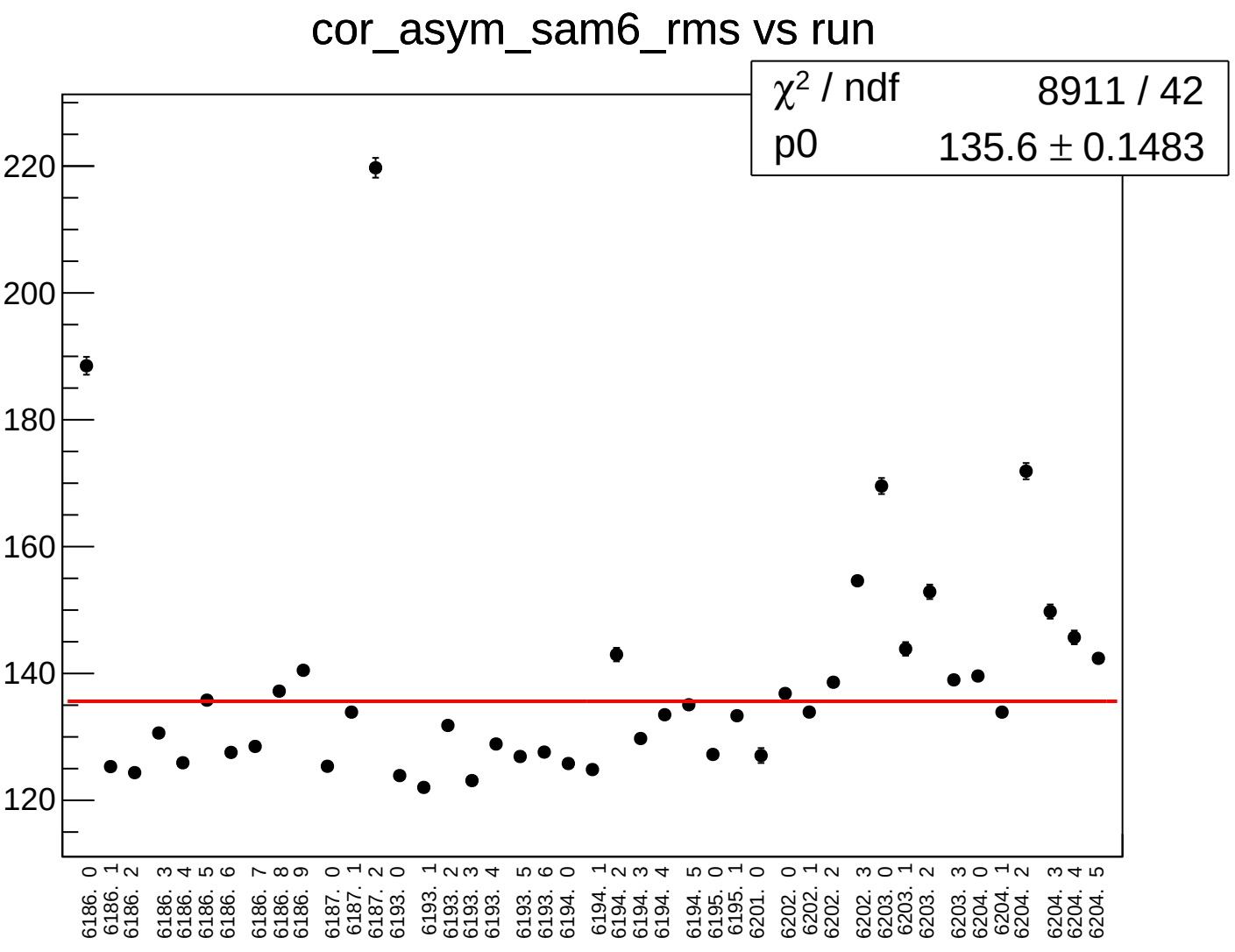

asym_sam6_reg_correction_mean vs run
χ² / ndf 48.63 / 42
p0 2174 ± 2612
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 319.5
Std Dev 0
3
2
1
0
−1
−2
−3

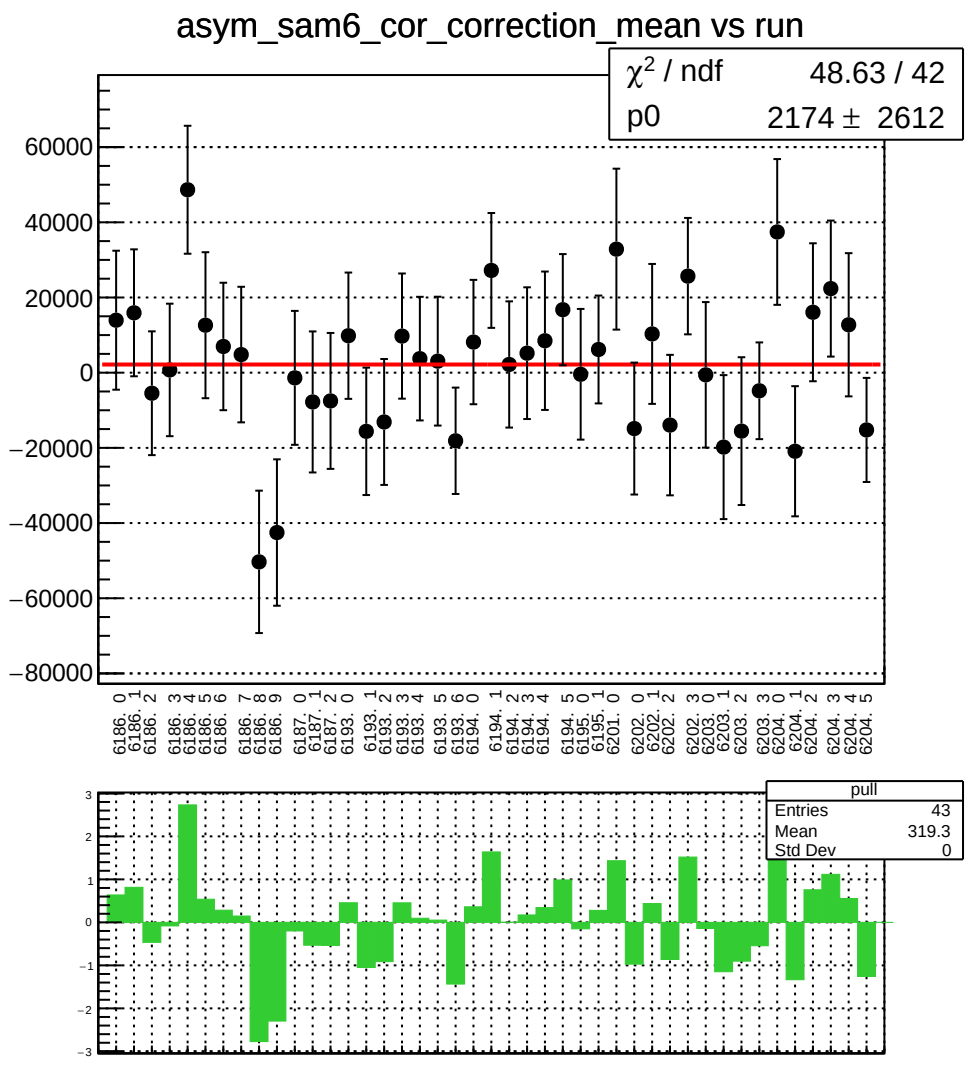

pull1D
Entries 43
Mean 0.001026
Std Dev 1.063
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

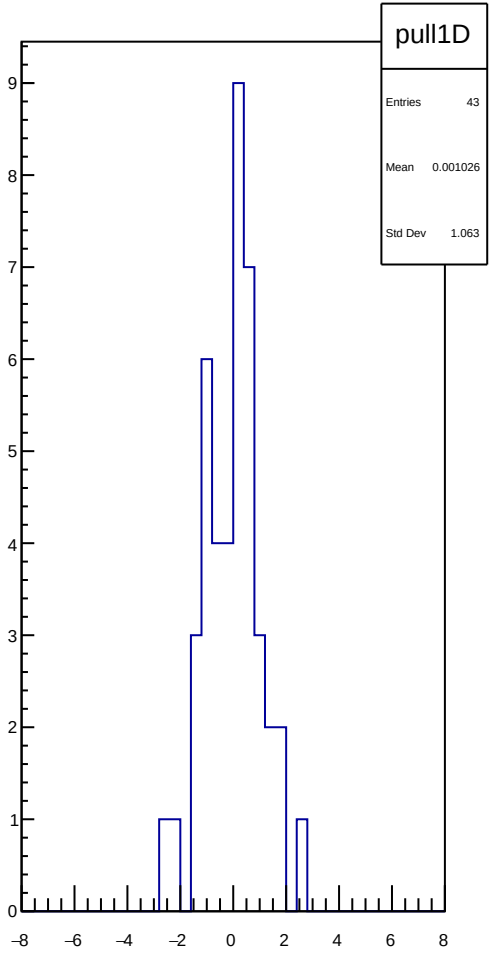

asym_sam6_reg_correction_rms vs run
χ² / ndf 3133 / 42
p0 1695 ± 1.847
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

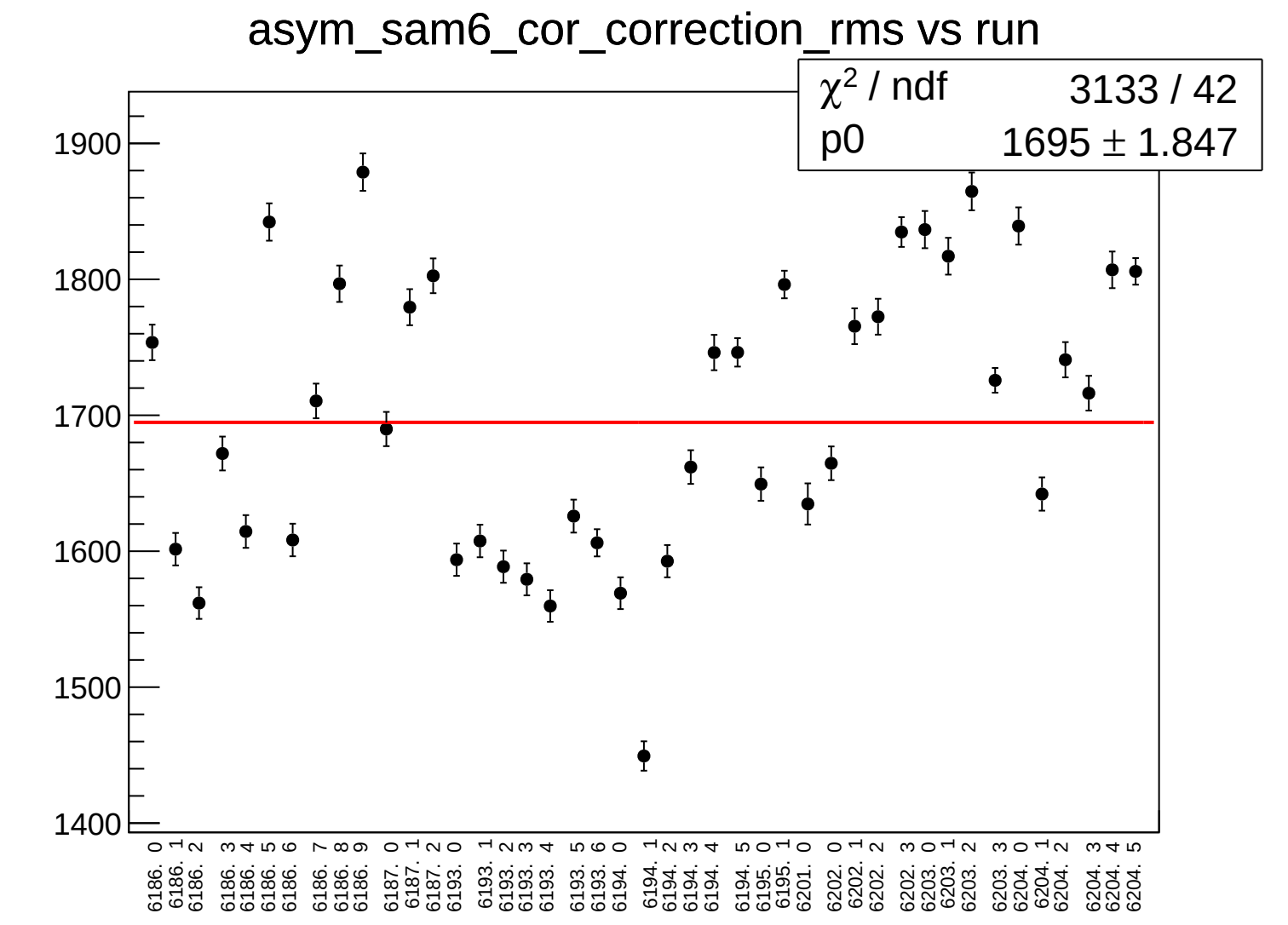

cor_asym_sam6_mean vs run
χ² / ndf 45.45 / 42
p0 29.11 ± 209.7
6000
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −36.87
Std Dev 0
2
1
0
−1
−2

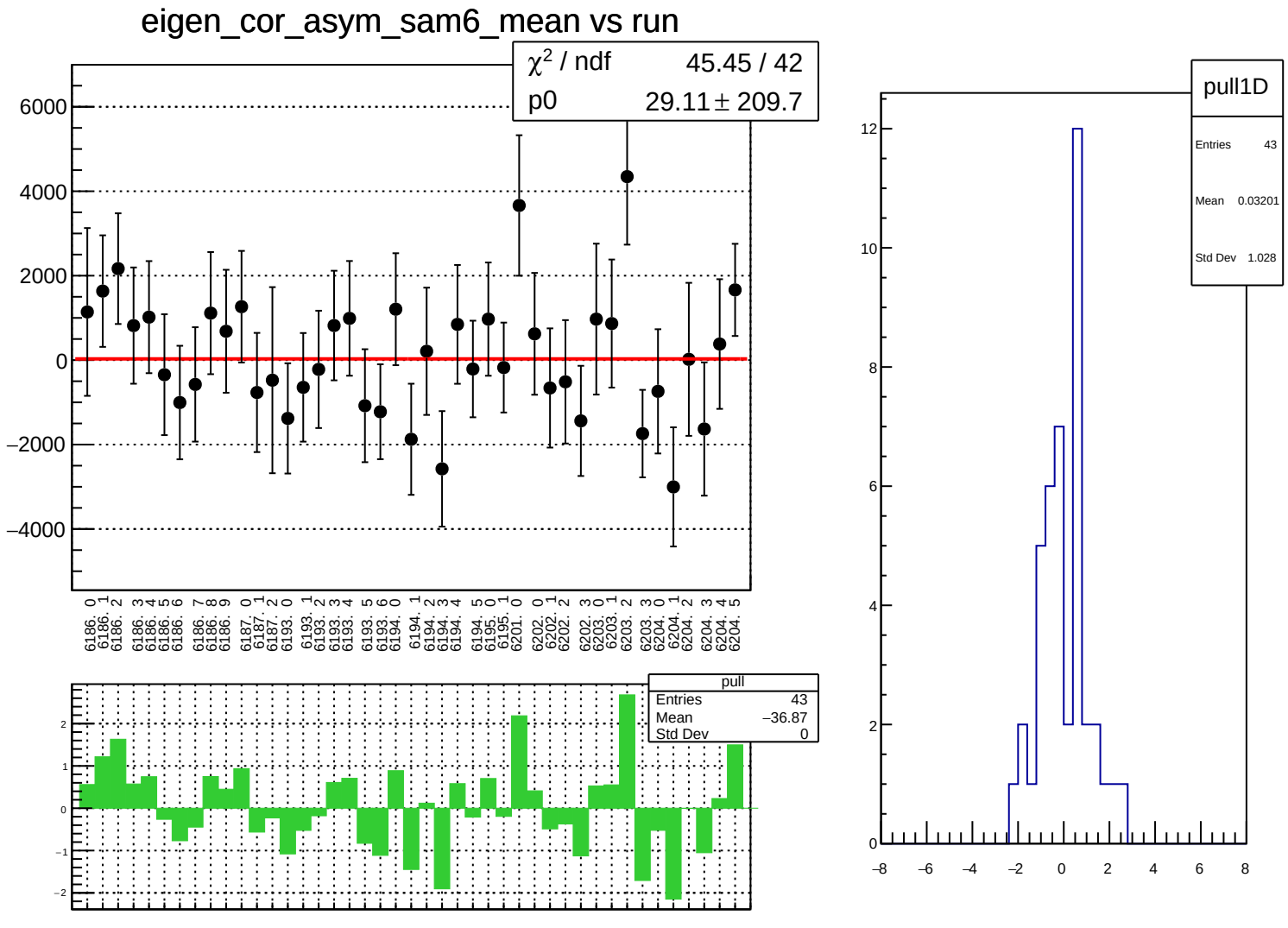

pull1D
Entries 43
Mean 0.03201
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

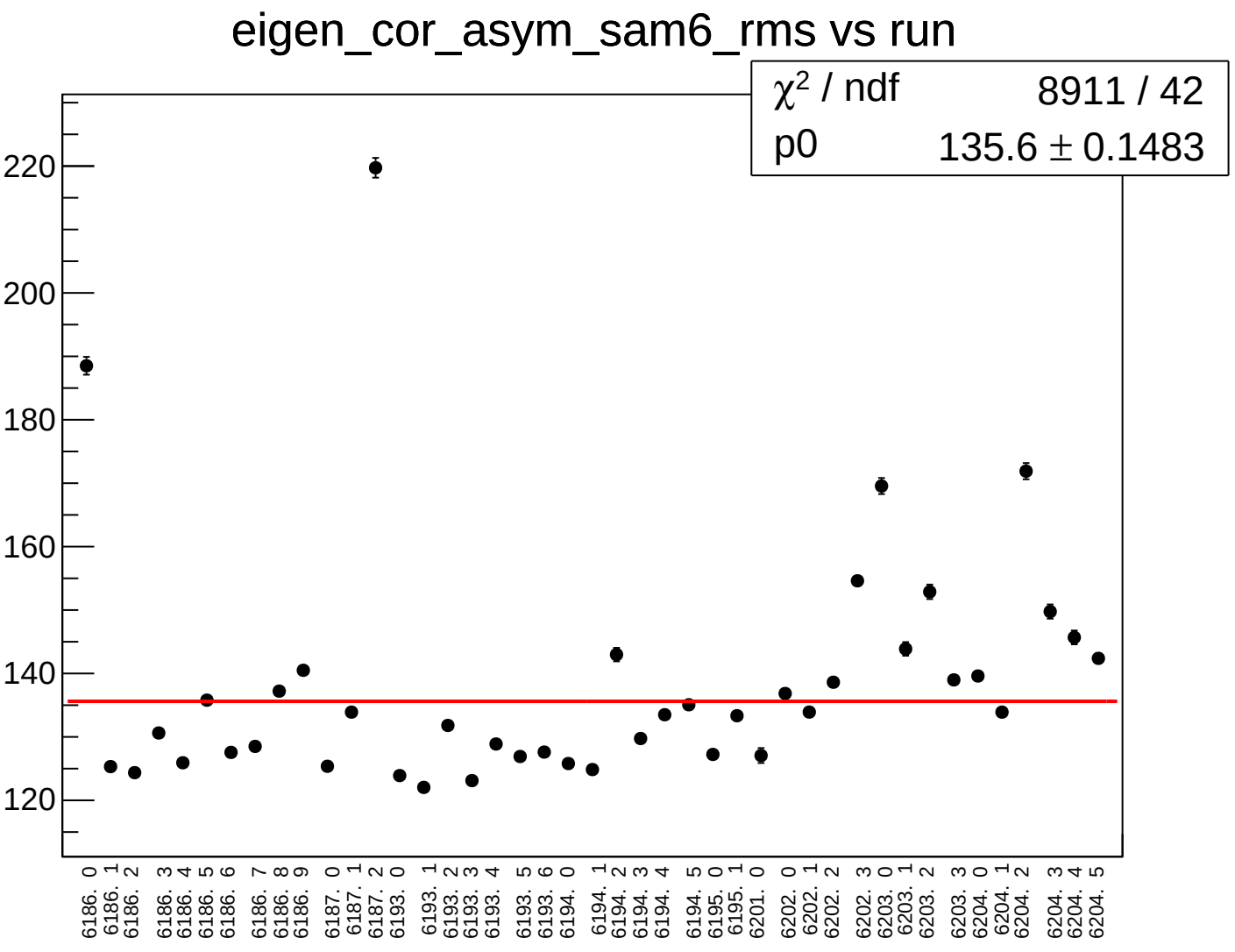

cor_asym_sam6_rms vs run
χ² / ndf 8911 / 42
p0 135.6 ± 0.1483
220
200
180
160
140
120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

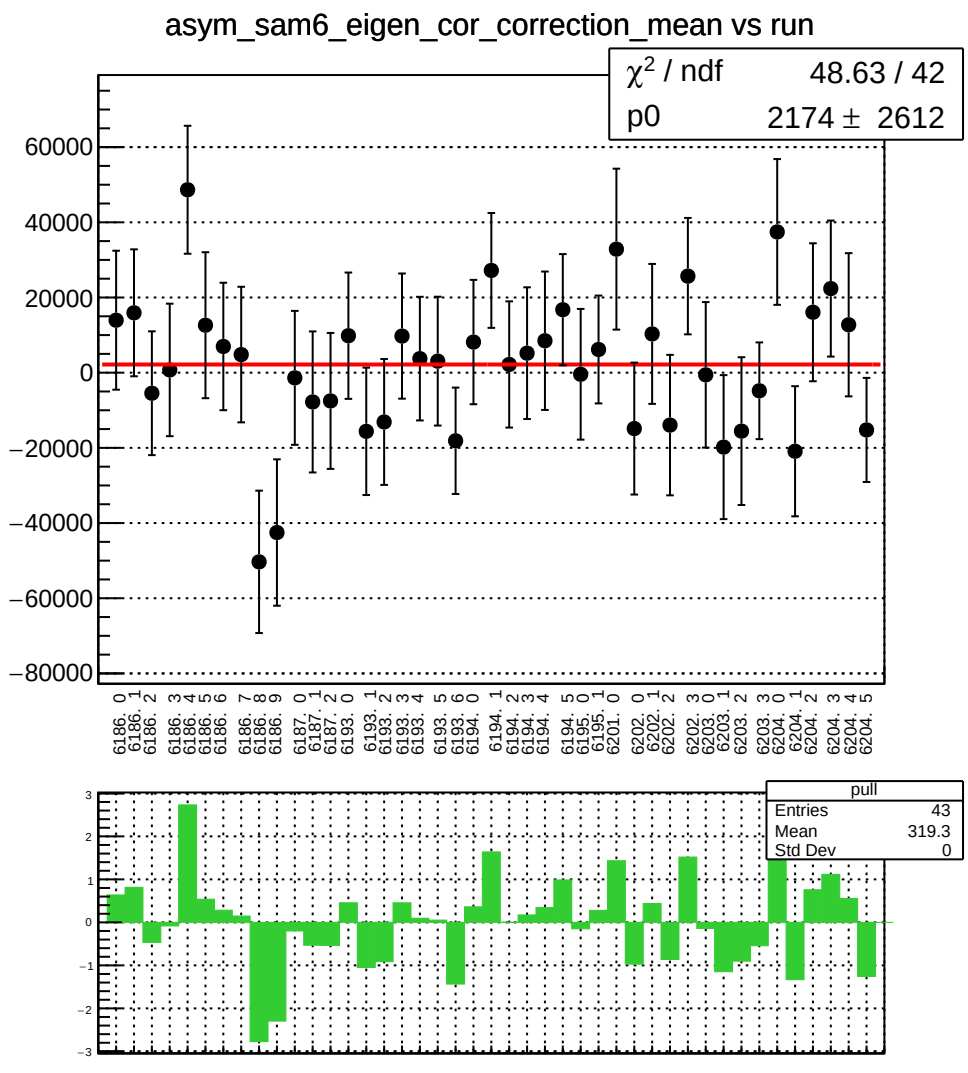

asym_sam6_cor_correction_mean vs run
χ² / ndf 48.63 / 42
p0 2174 ± 2612
pull
Entries 43
Mean 319.3
Std Dev 0

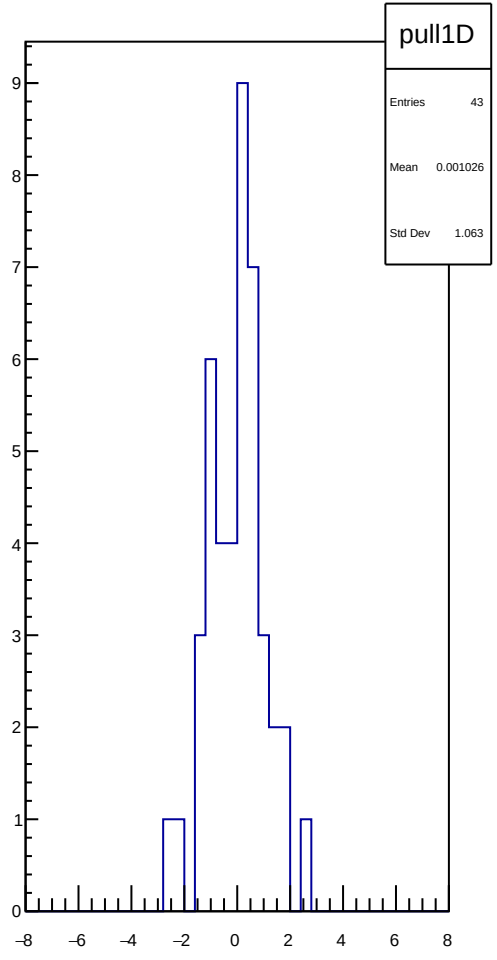

pull1D
Entries 43
Mean 0.001026
Std Dev 1.063

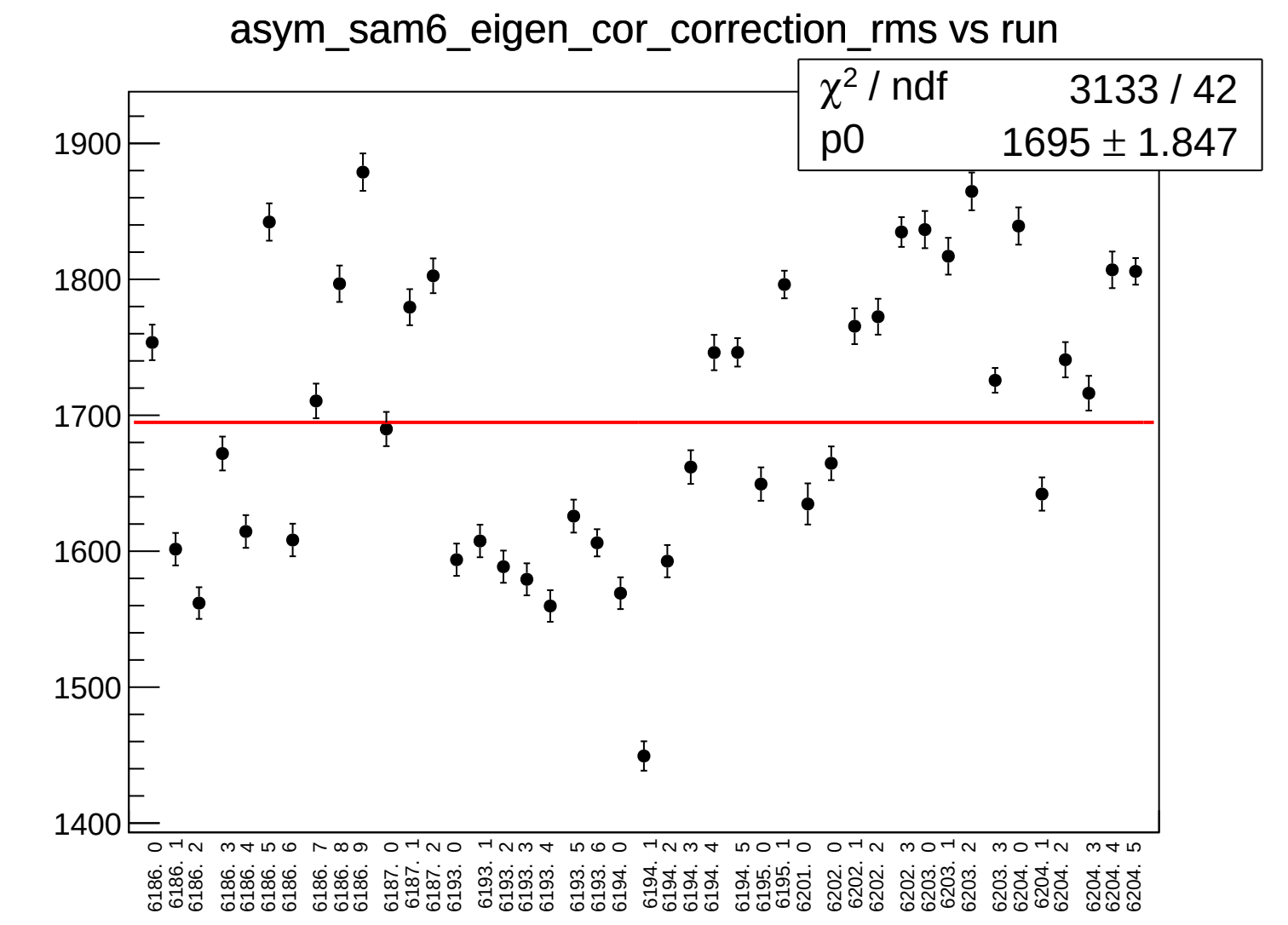

asym_sam6_cor_correction_rms vs run
χ² / ndf 3133 / 42
p0 1695 ± 1.847
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

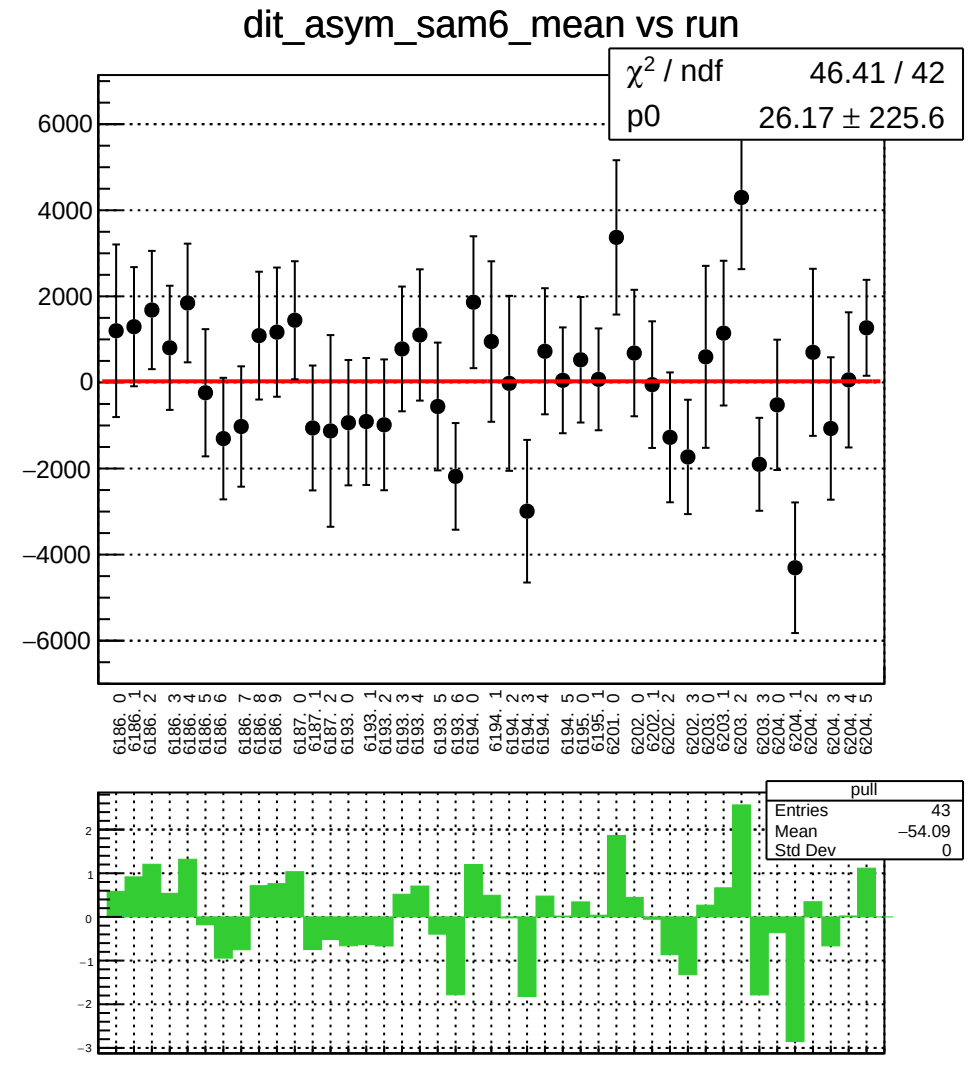

eigen_cor_asym_sam6_mean vs run
χ² / ndf 45.45 / 42
p0 29.11 ± 209.7
6000
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −36.87
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03201
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

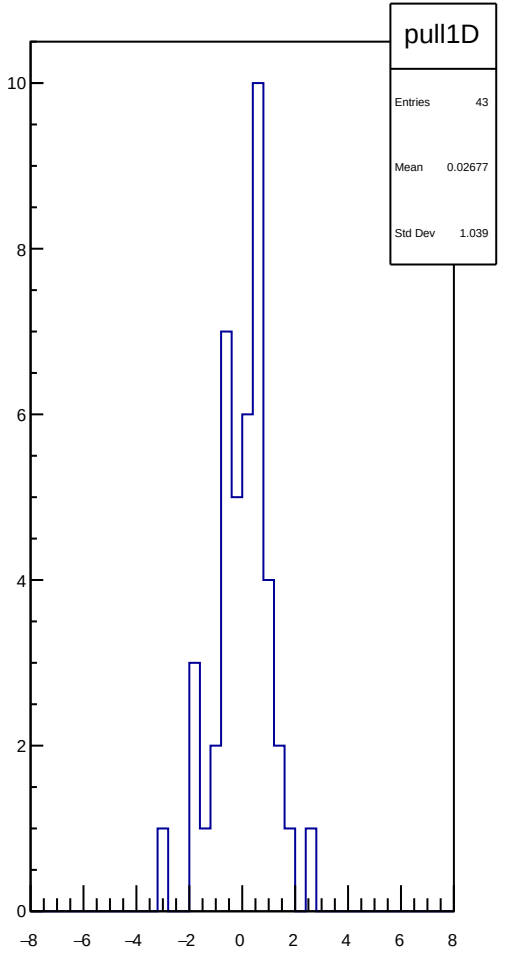

eigen_cor_asym_sam6_rms vs run
χ² / ndf 8911 / 42
p0 135.6 ± 0.1483
220
200
180
160
140
120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

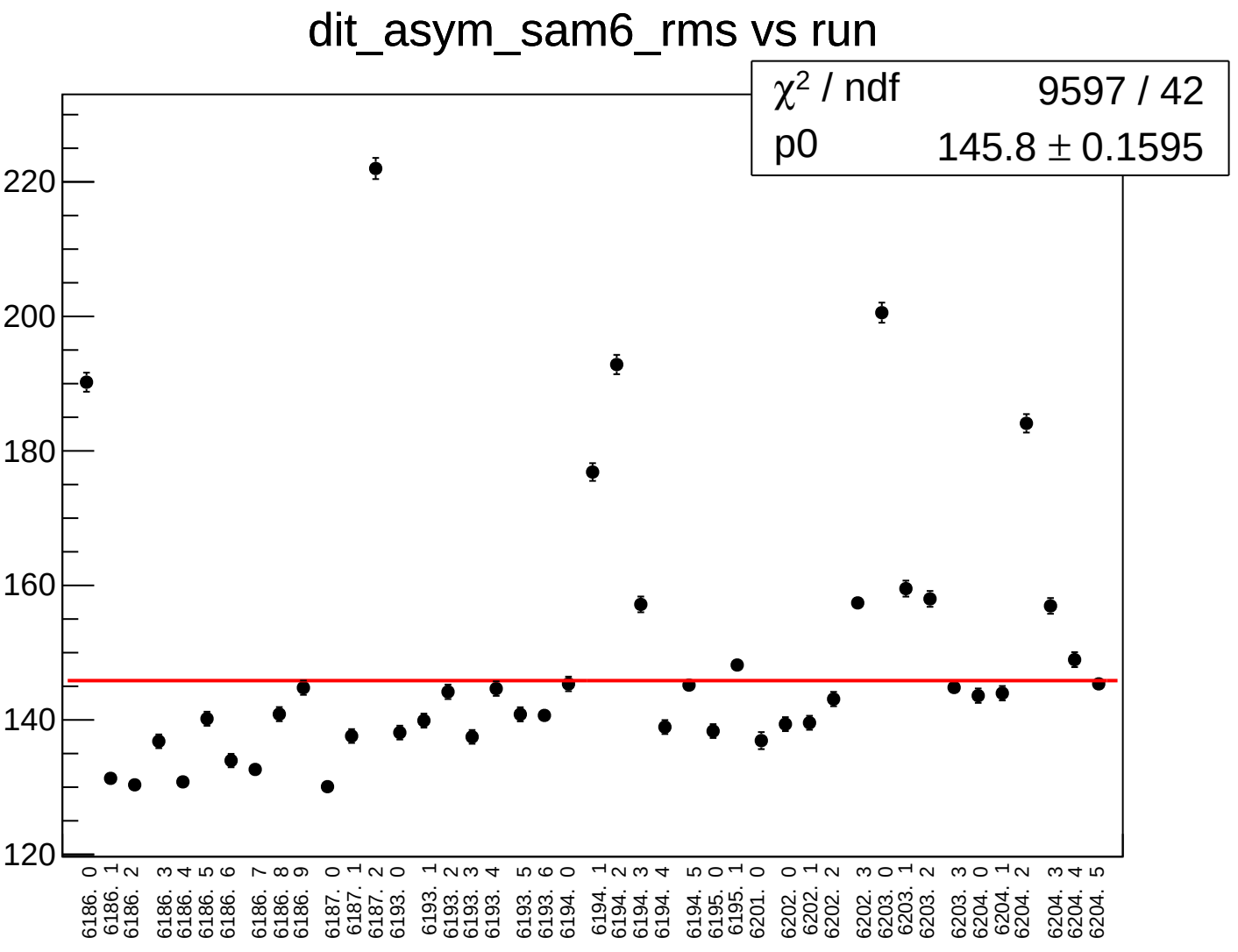

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 48.63 / 42
p0 2174 ± 2612
pull
Entries 43
Mean 319.3
Std Dev 0

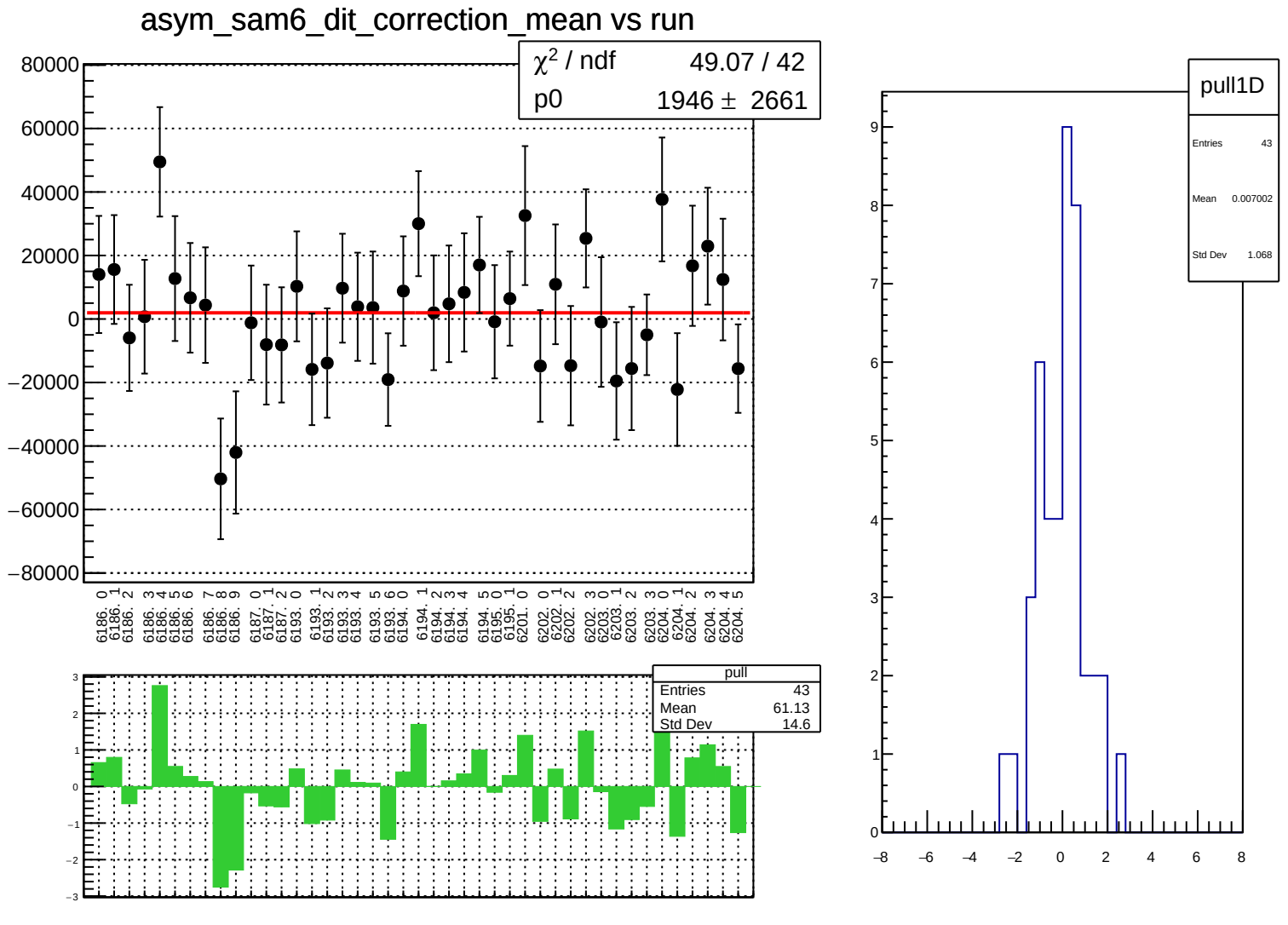

pull1D
Entries 43
Mean 0.001026
Std Dev 1.063

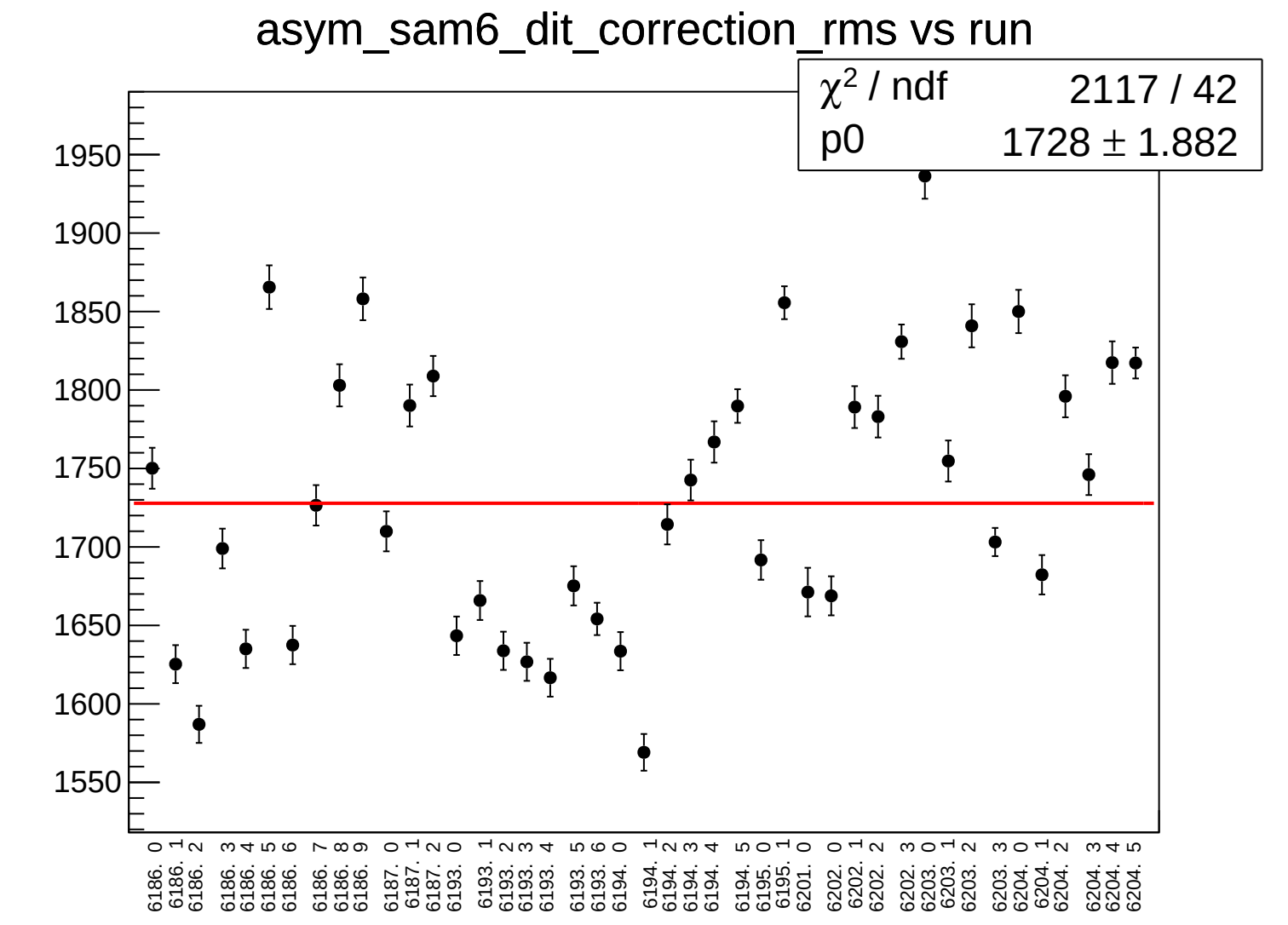

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 3133 / 42
p0 1695 ± 1.847
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

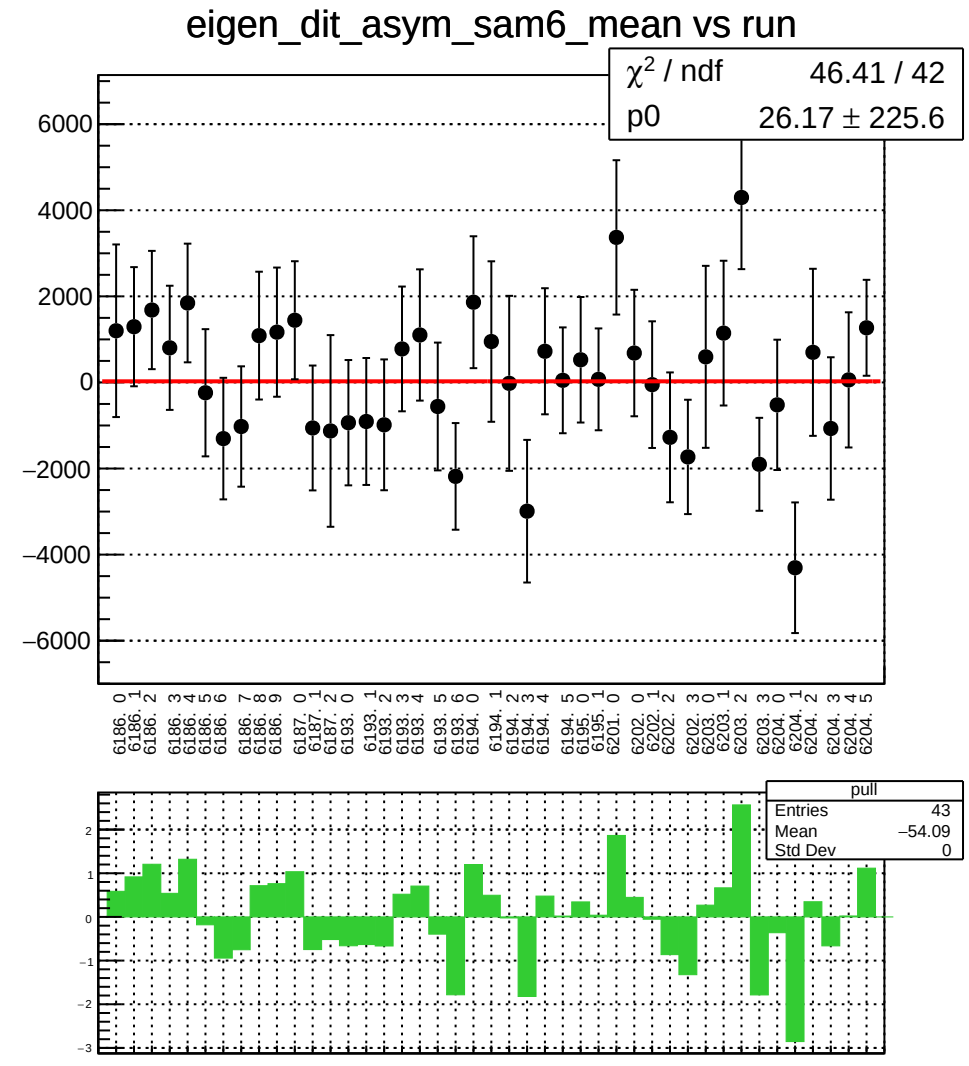

dit_asym_sam6_mean vs run
χ² / ndf 46.41 / 42
p0 26.17 ± 225.6
6000
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −54.09
Std Dev 0
2
1
0
−1
−2
−3

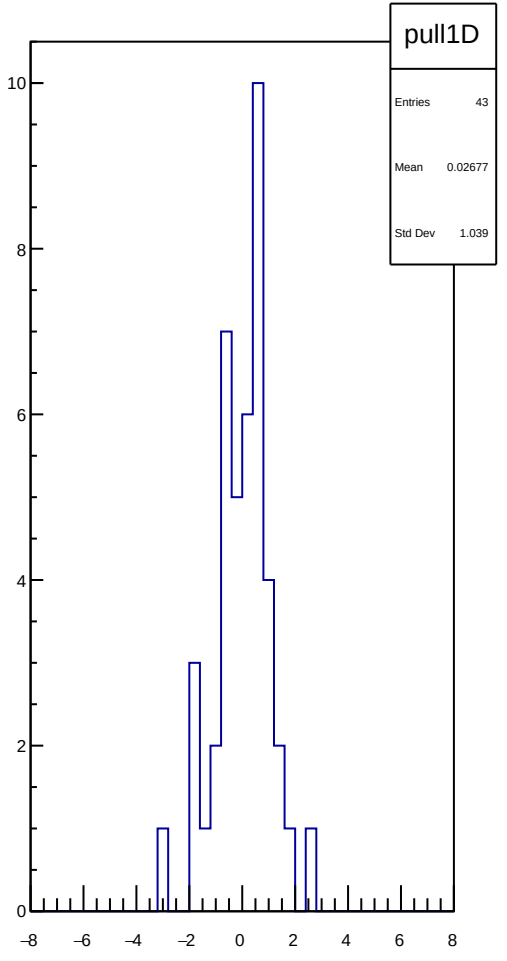

pull1D
Entries 43
Mean 0.02677
Std Dev 1.039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

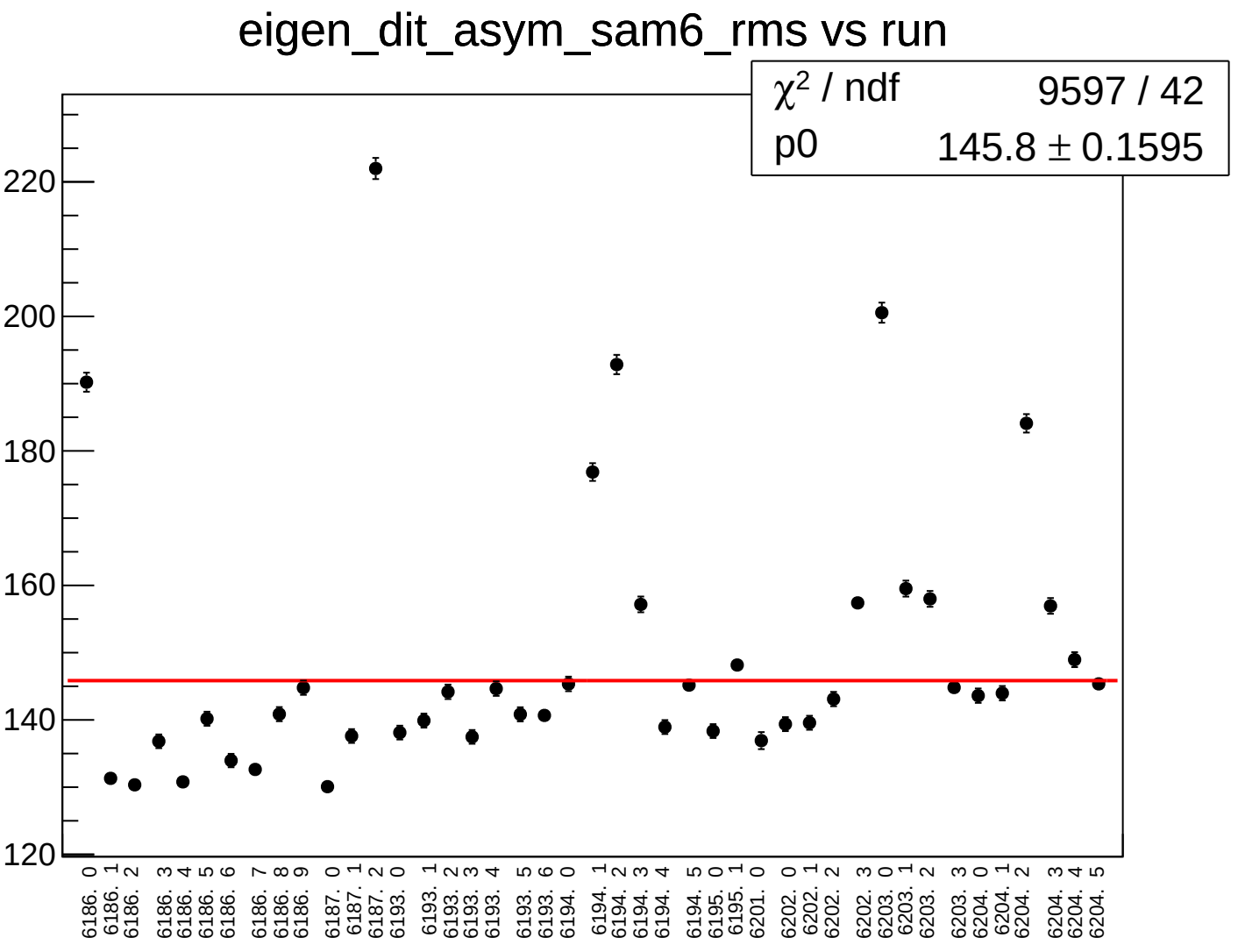

dit_asym_sam6_rms vs run
χ² / ndf 9597 / 42
p0 145.8 ± 0.1595
220
200
180
160
140
120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

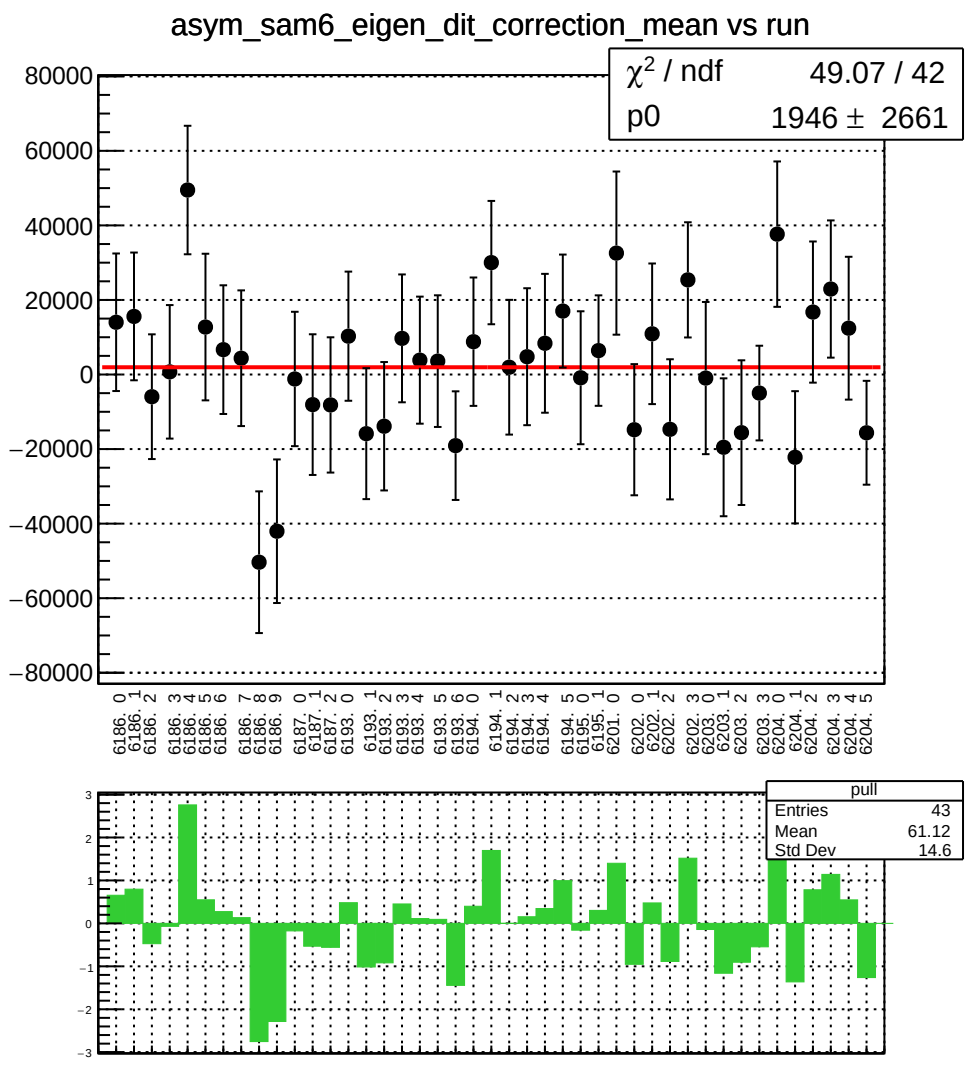

asym_sam6_dit_correction_mean vs run
χ² / ndf 49.07 / 42
p0 1946 ± 2661
pull
Entries 43
Mean 61.13
Std Dev 14.6
pull1D
Entries 43
Mean 0.007002
Std Dev 1.068

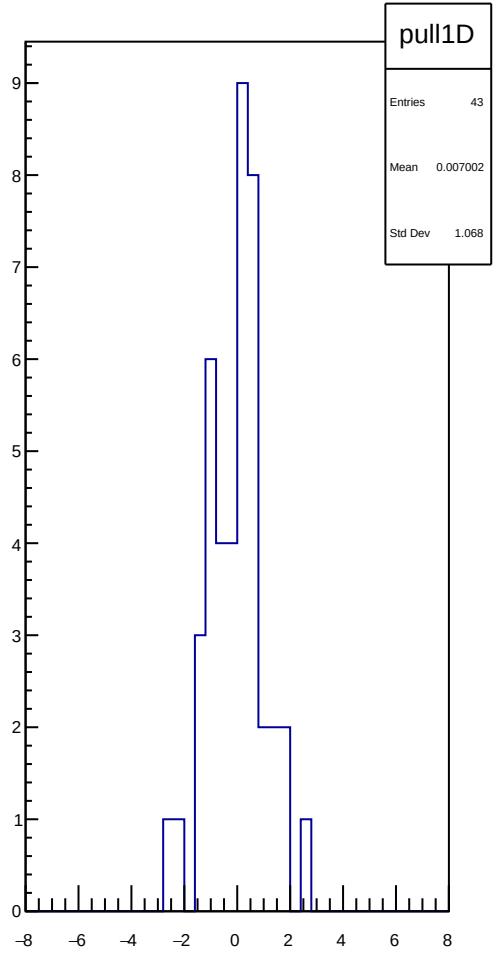

asym_sam6_dit_correction_rms vs run
χ² / ndf 2117 / 42
p0 1728 ± 1.882
1950
1900
1850
1800
1750
1700
1650
1600
1550
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

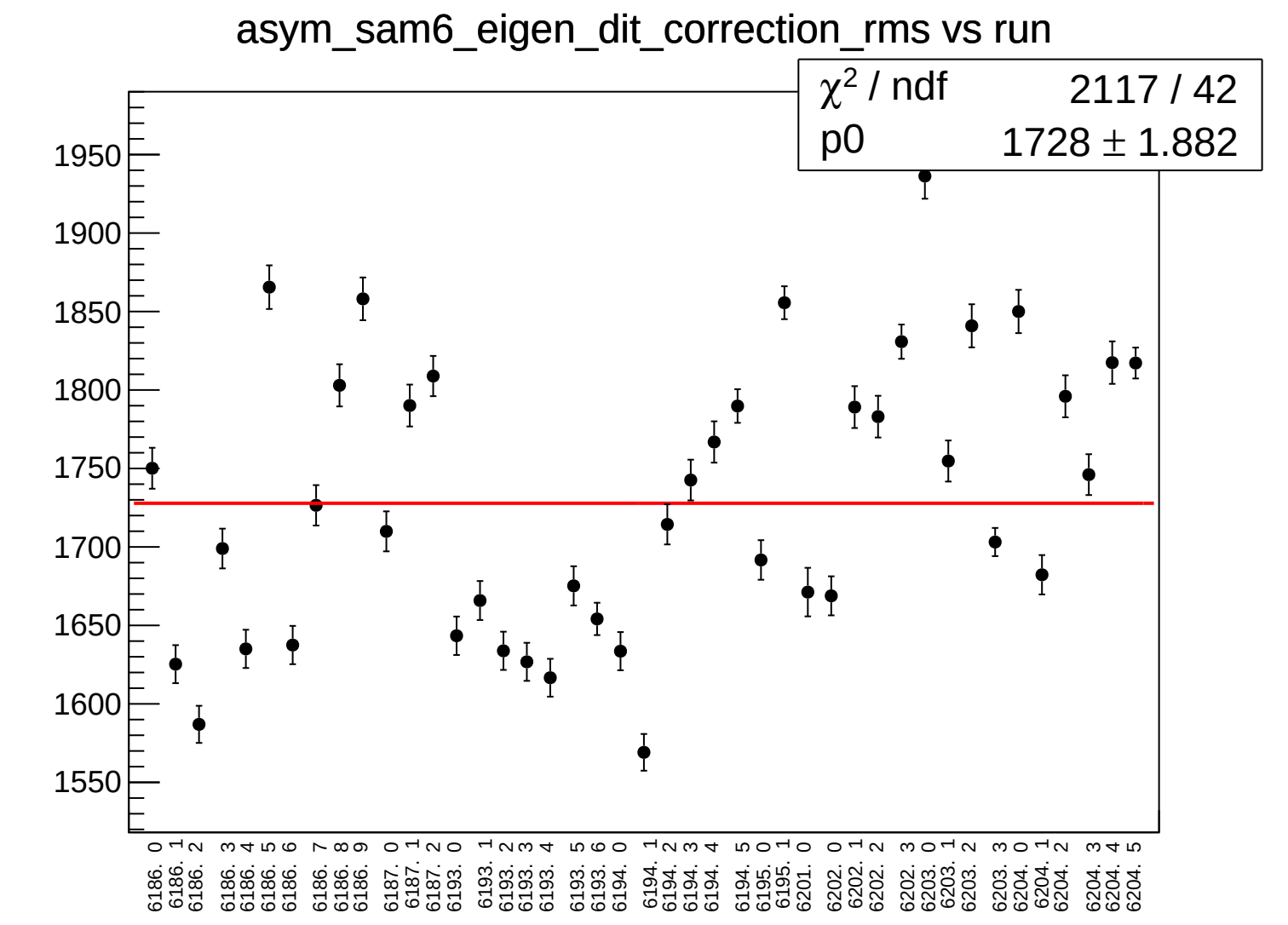

eigen_dit_asym_sam6_mean vs run
χ² / ndf 46.41 / 42
p0 26.17 ± 225.6
6000
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −54.09
Std Dev 0
2
1
0
−1
−2
−3

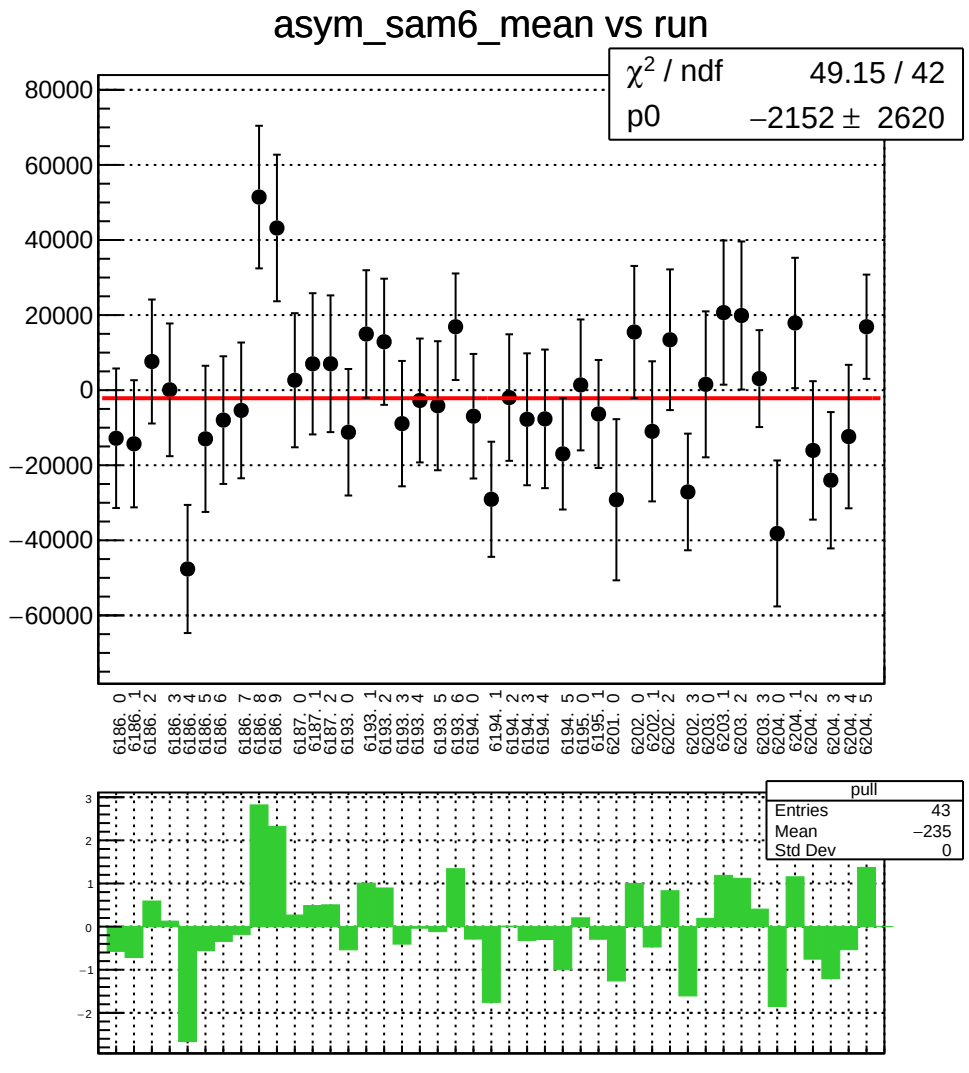

pull1D
Entries 43
Mean 0.02677
Std Dev 1.039
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

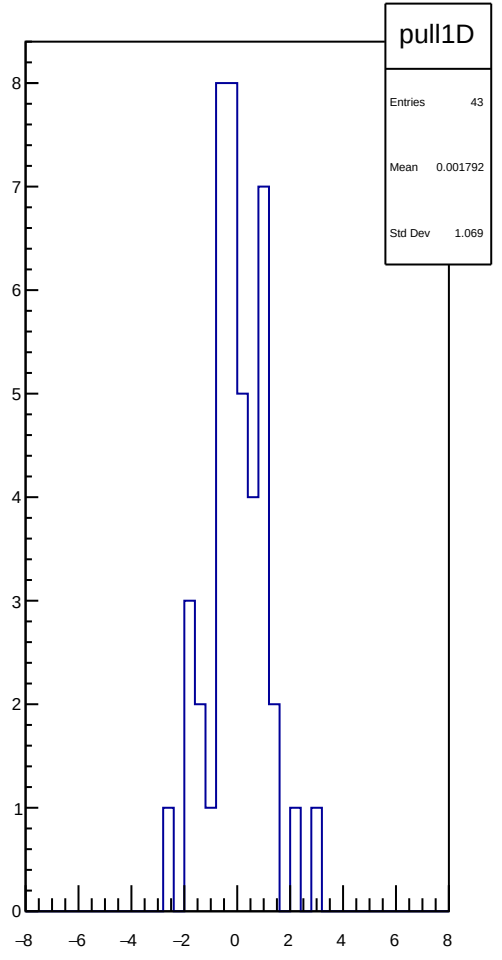

eigen_dit_asym_sam6_rms vs run
χ^2 / ndf 9597 / 42
p0 145.8 ± 0.1595
220
200
180
160
140
120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

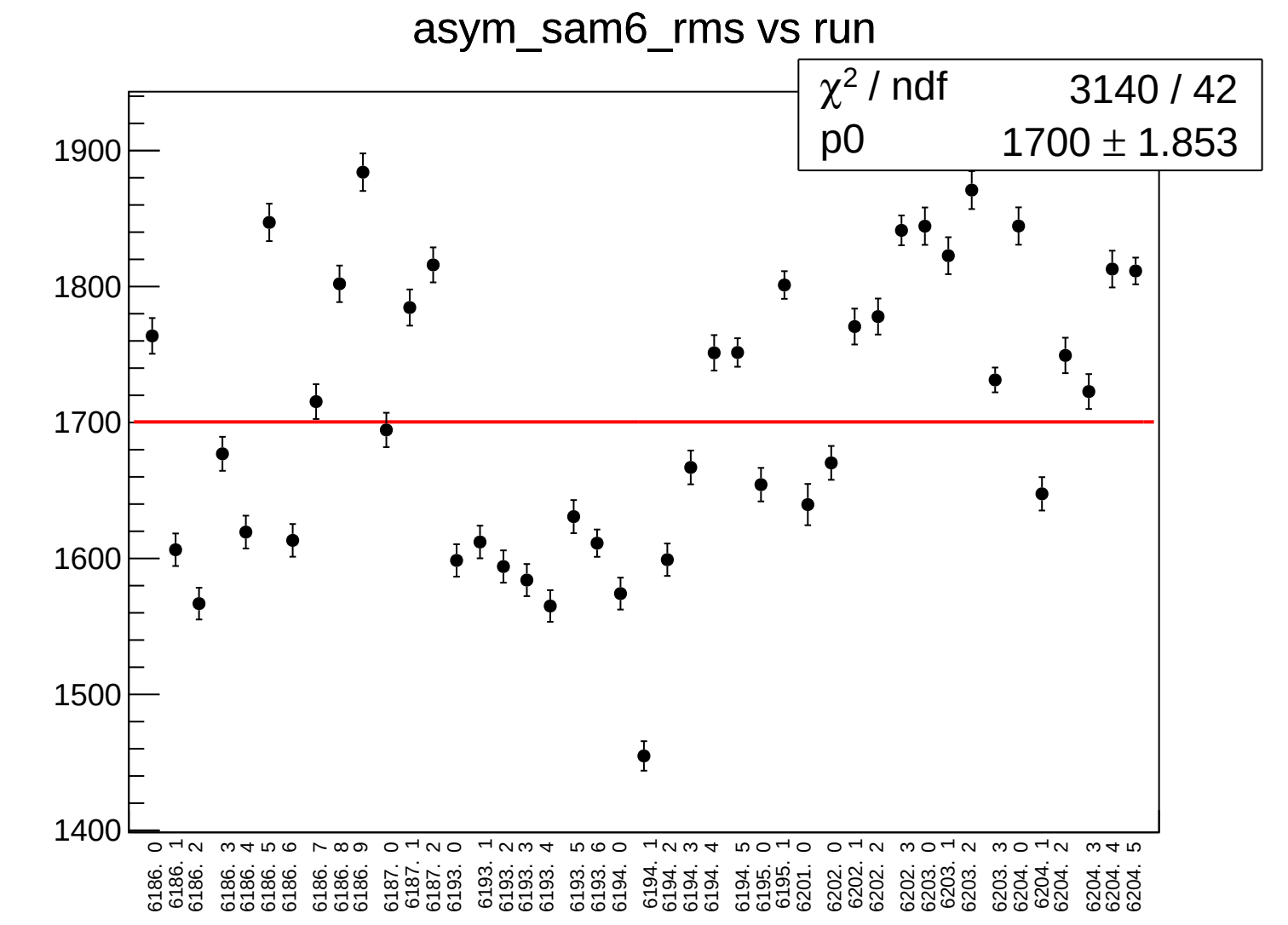

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 49.07 / 42
p0 1946 ± 2661
pull
Entries 43
Mean 61.12
Std Dev 14.6

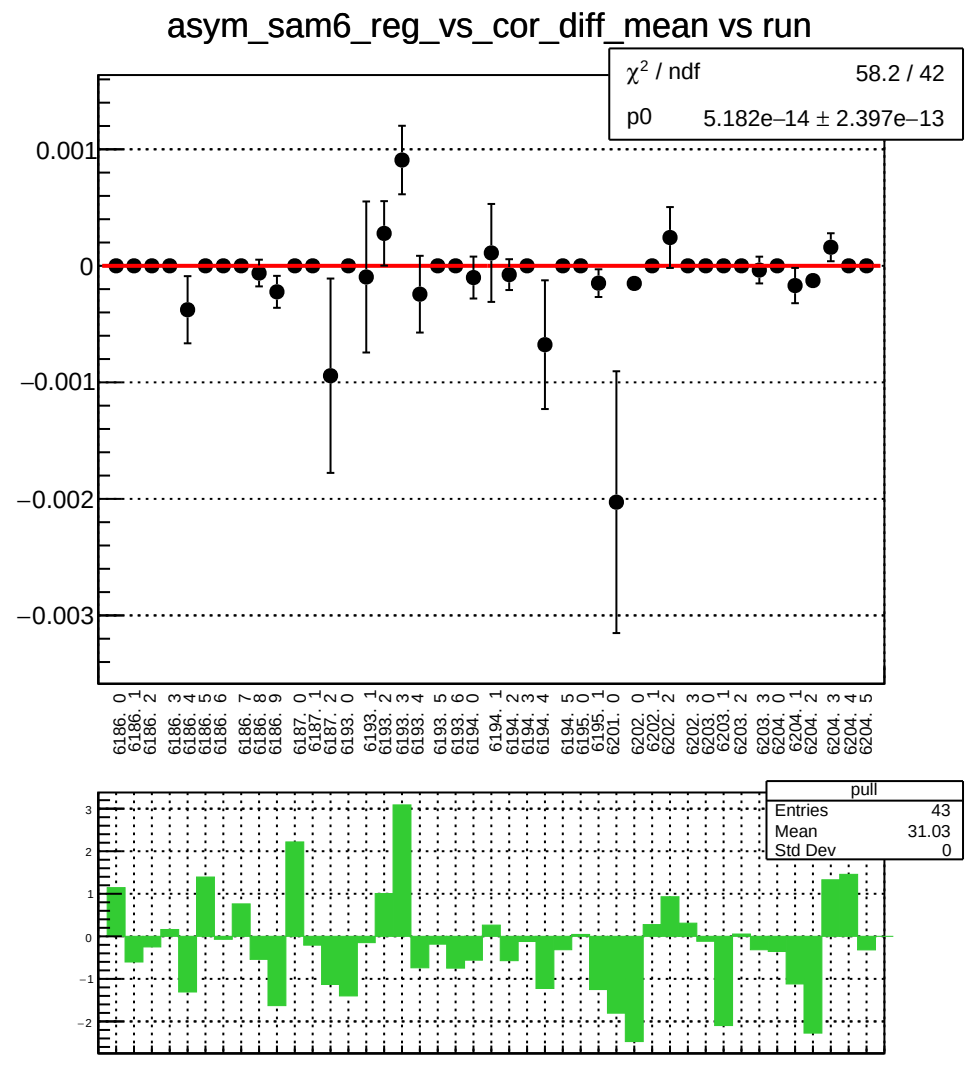

pull1D
Entries 43
Mean 0.007002
Std Dev 1.068

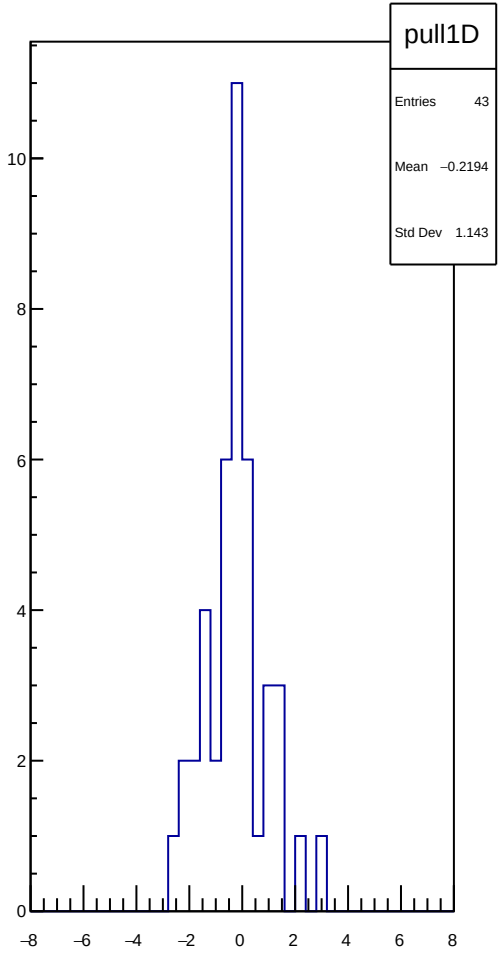

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 2117 / 42
p0 1728 ± 1.882
1950
1900
1850
1800
1750
1700
1650
1600
1550
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

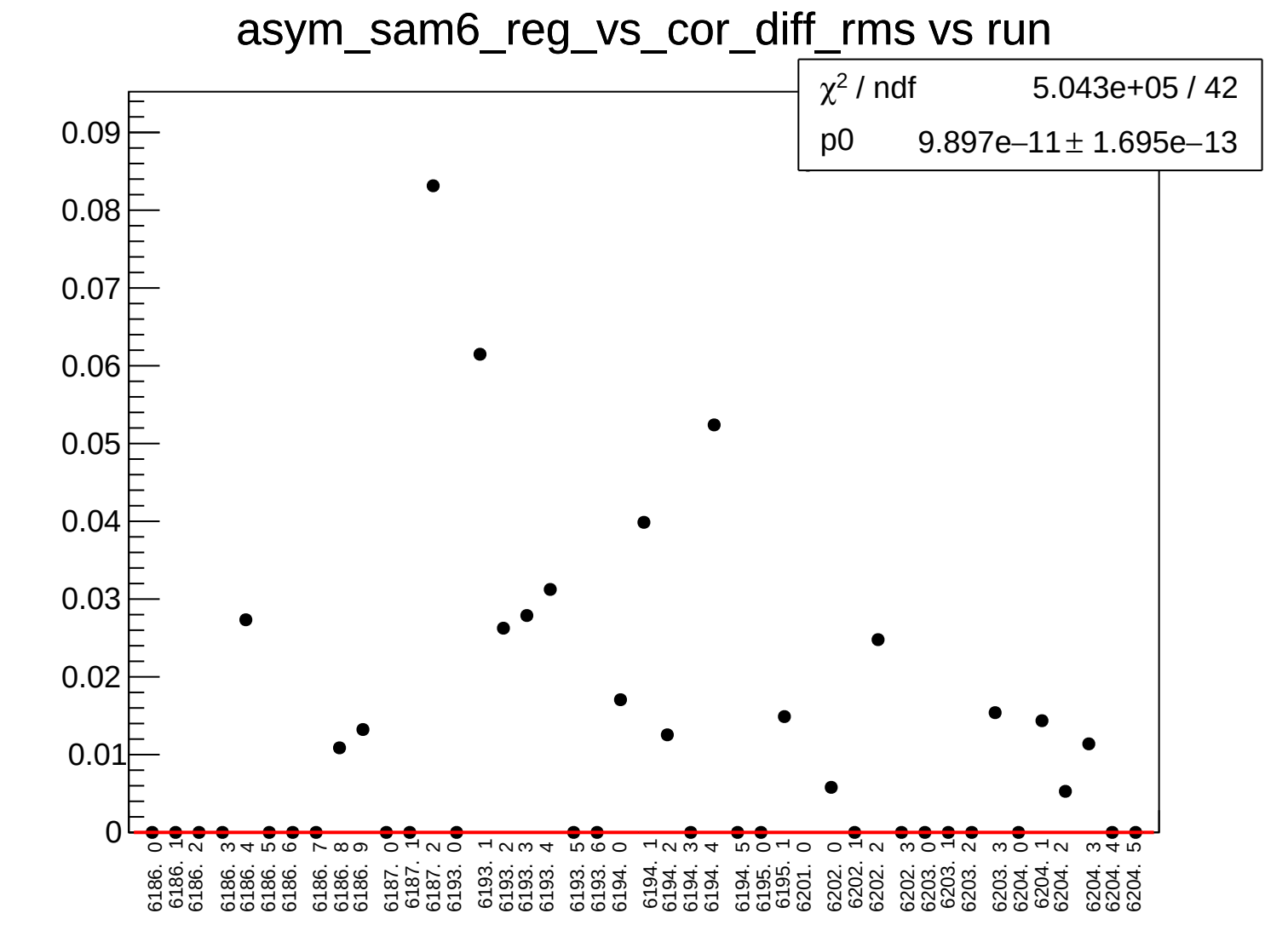

asym_sam6_mean vs run
χ² / ndf 49.15 / 42
p0 −2152 ± 2620
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −235
Std Dev 0
3
2
1
0
−1
−2

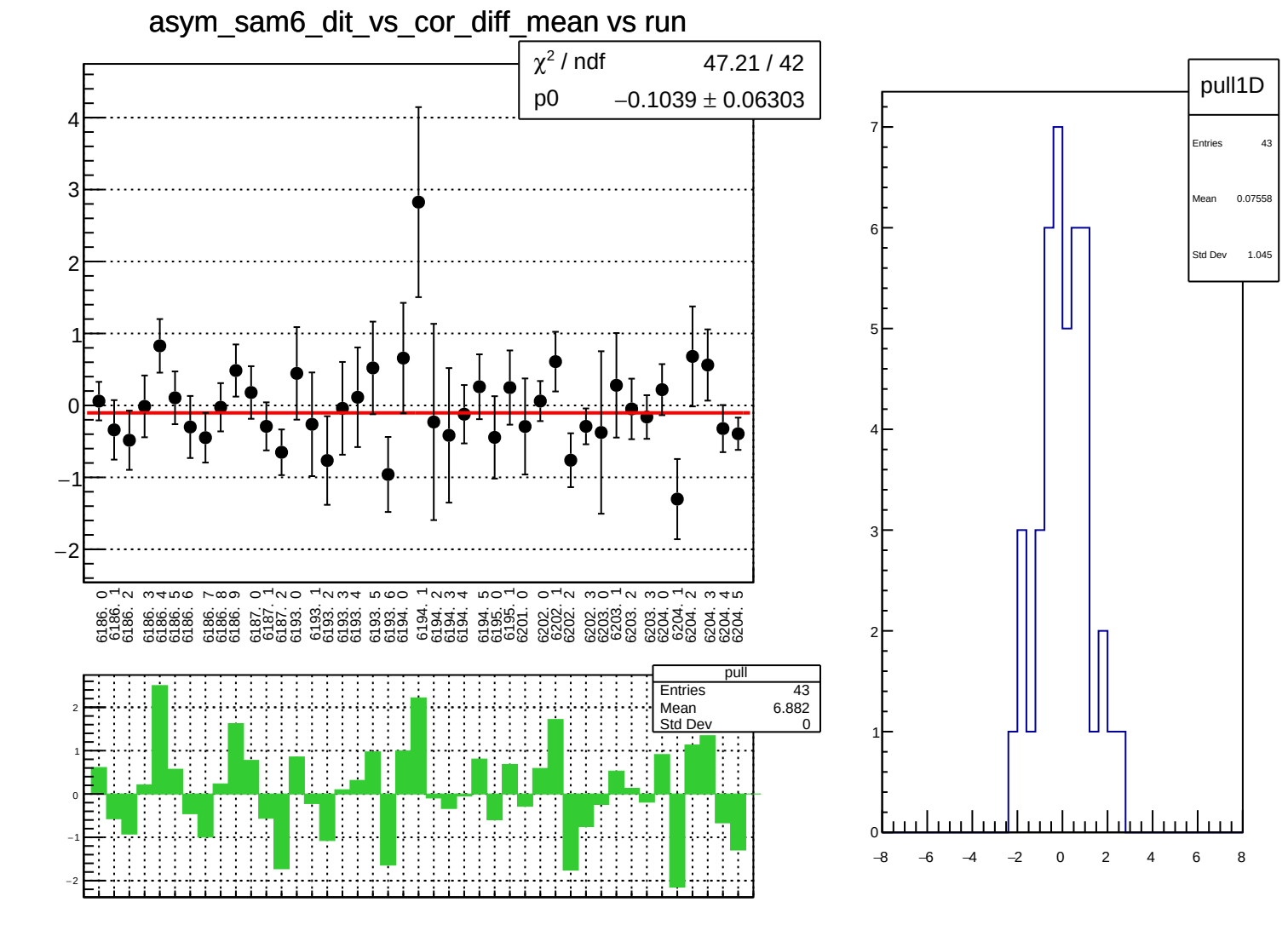

pull1D
Entries 43
Mean 0.001792
Std Dev 1.069
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

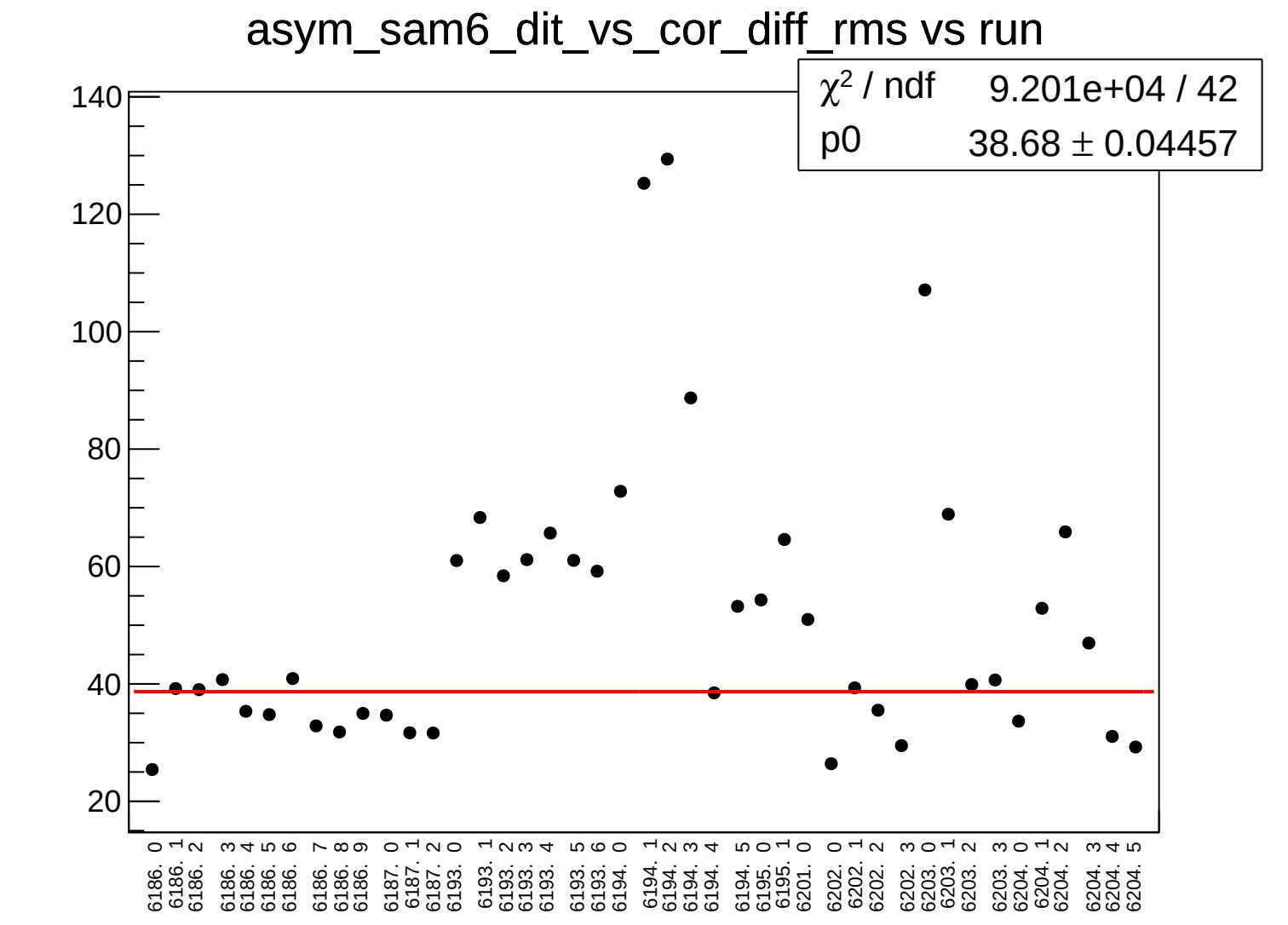

asym_sam6_rms vs run
χ² / ndf 3140 / 42
p0 1700 ± 1.853
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

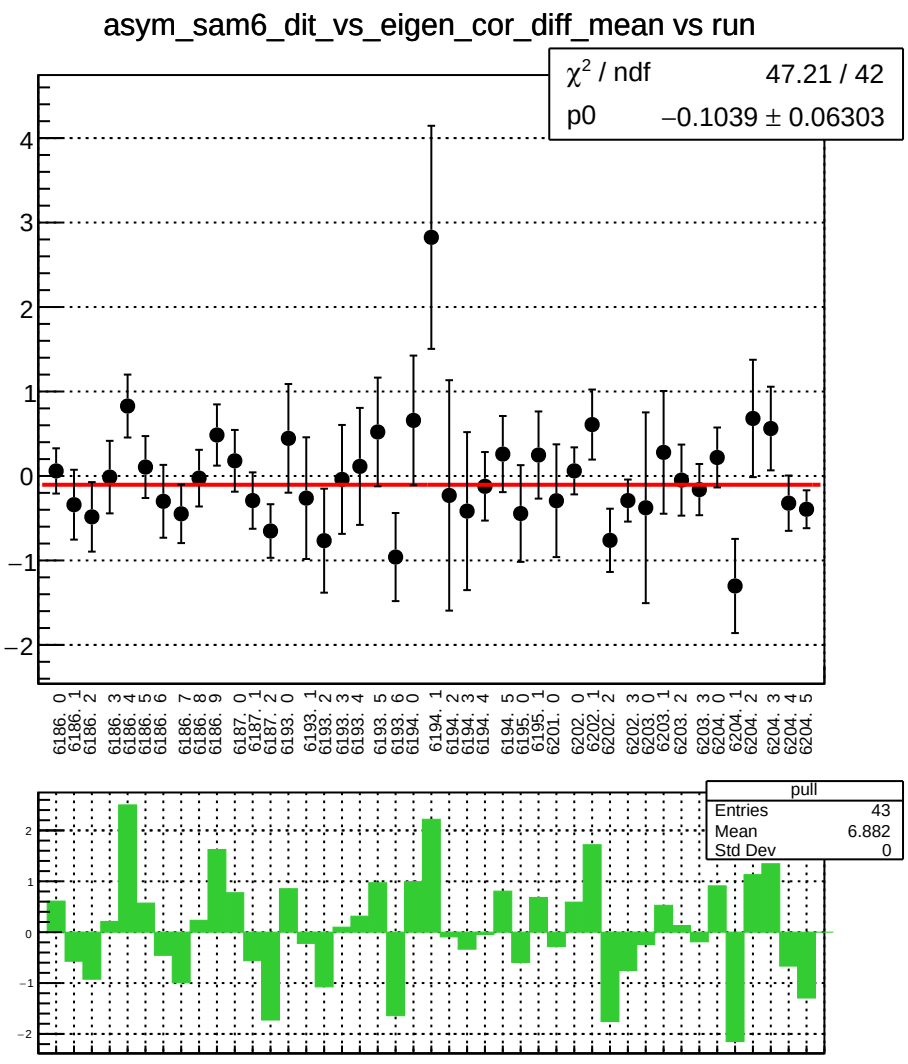

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 58.2 / 42
p0 5.182e−14 ± 2.397e−13
0.001
0
−0.001
−0.002
−0.003
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 31.03
Std Dev 0
3
2
1
0
−1
−2

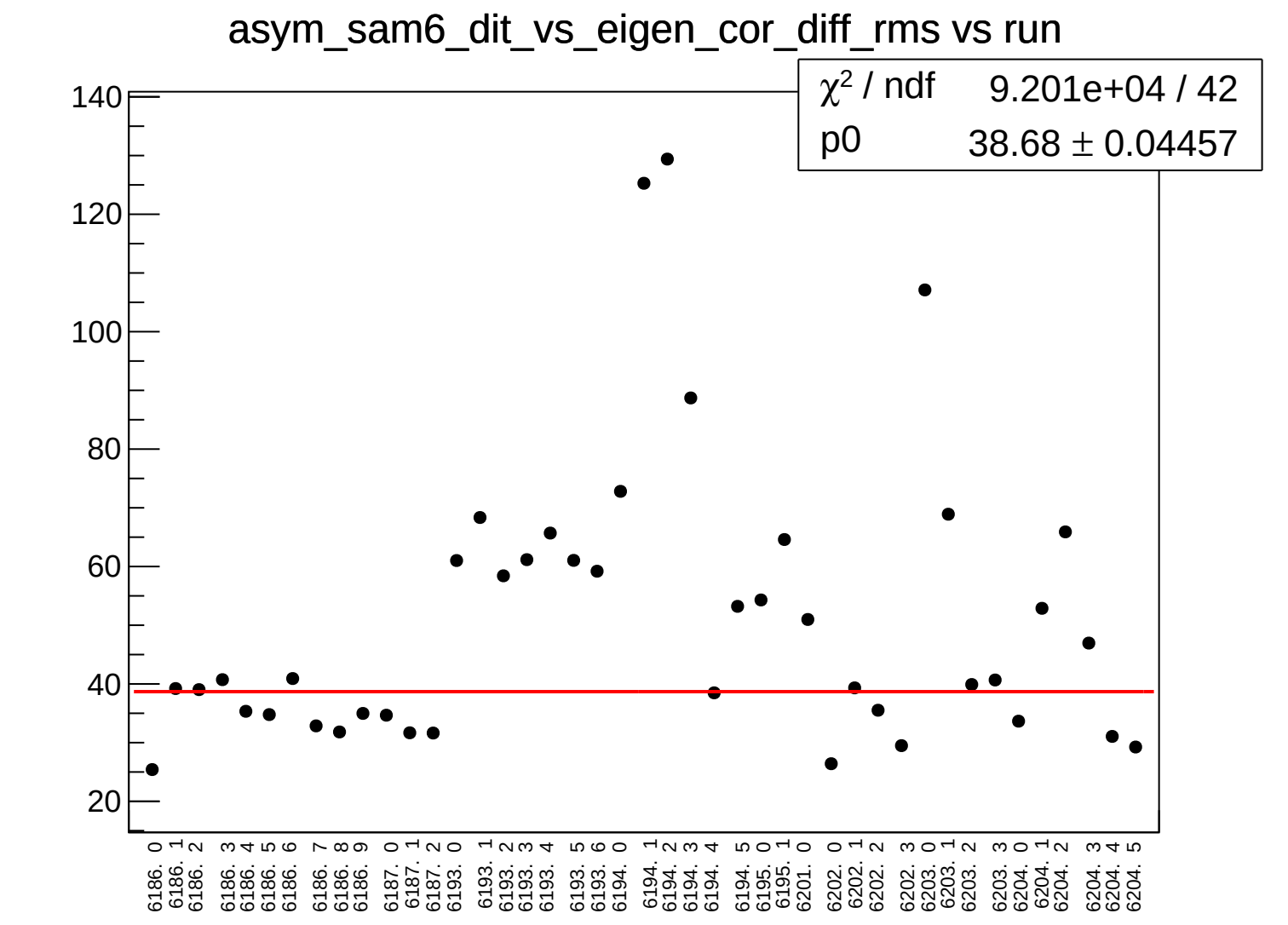

pull1D
Entries 43
Mean −0.2194
Std Dev 1.143
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

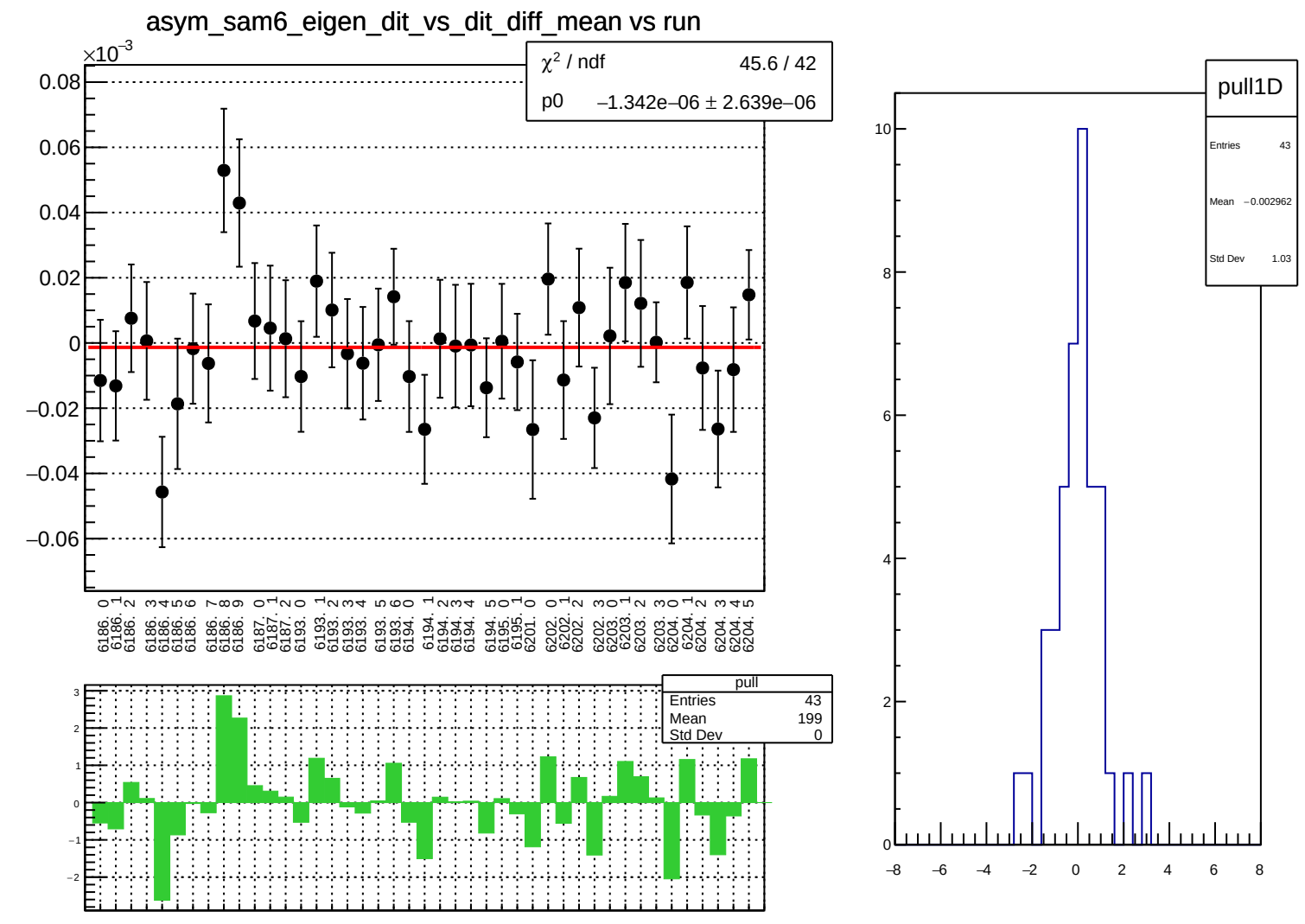

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 5.043e+05 / 42
p0 9.897e−11 ± 1.695e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

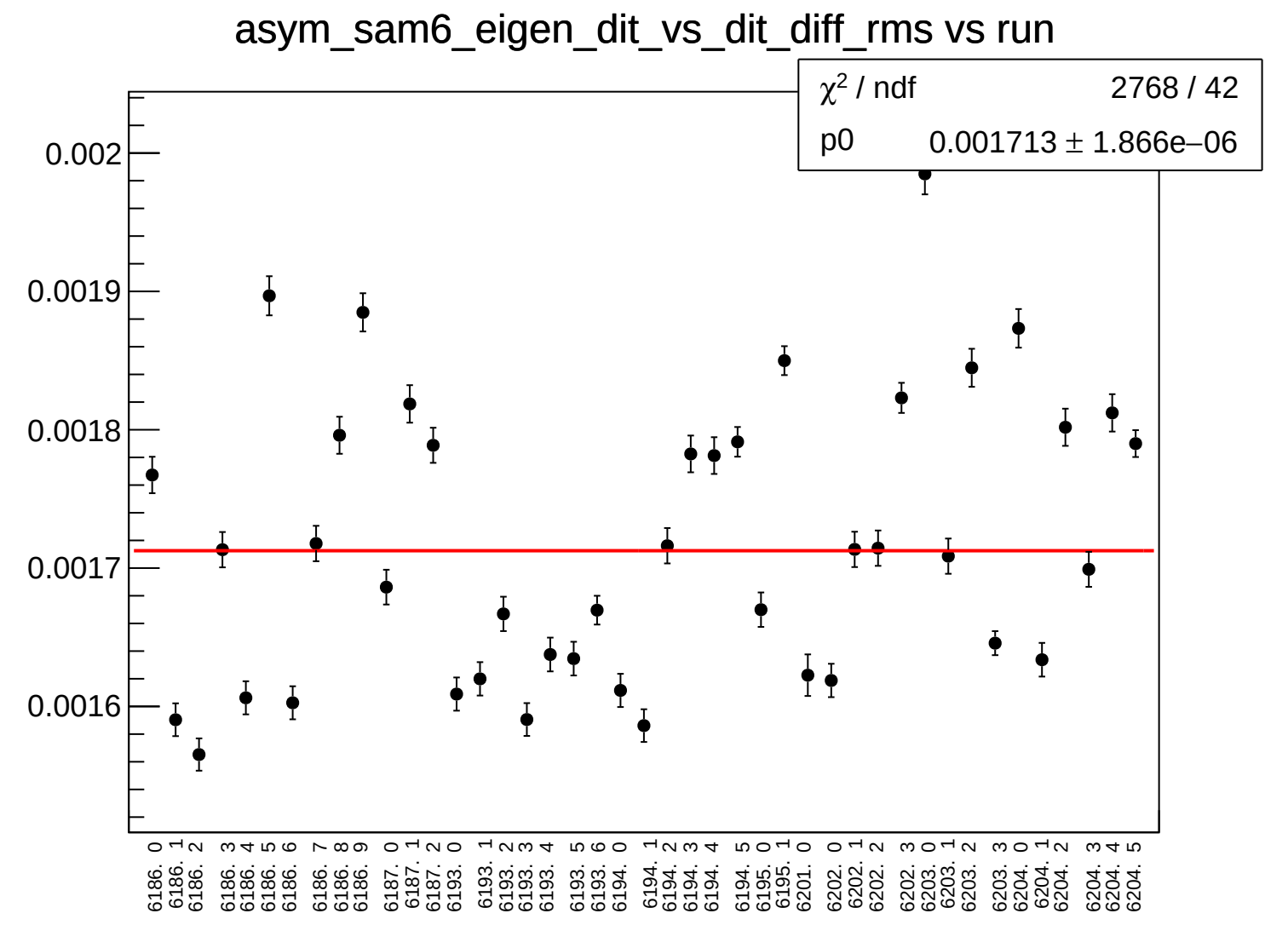

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 47.21 / 42
p0 −0.1039 ± 0.06303
pull
Entries 43
Mean 6.882
Std Dev 0
pull1D
Entries 43
Mean 0.07558
Std Dev 1.045

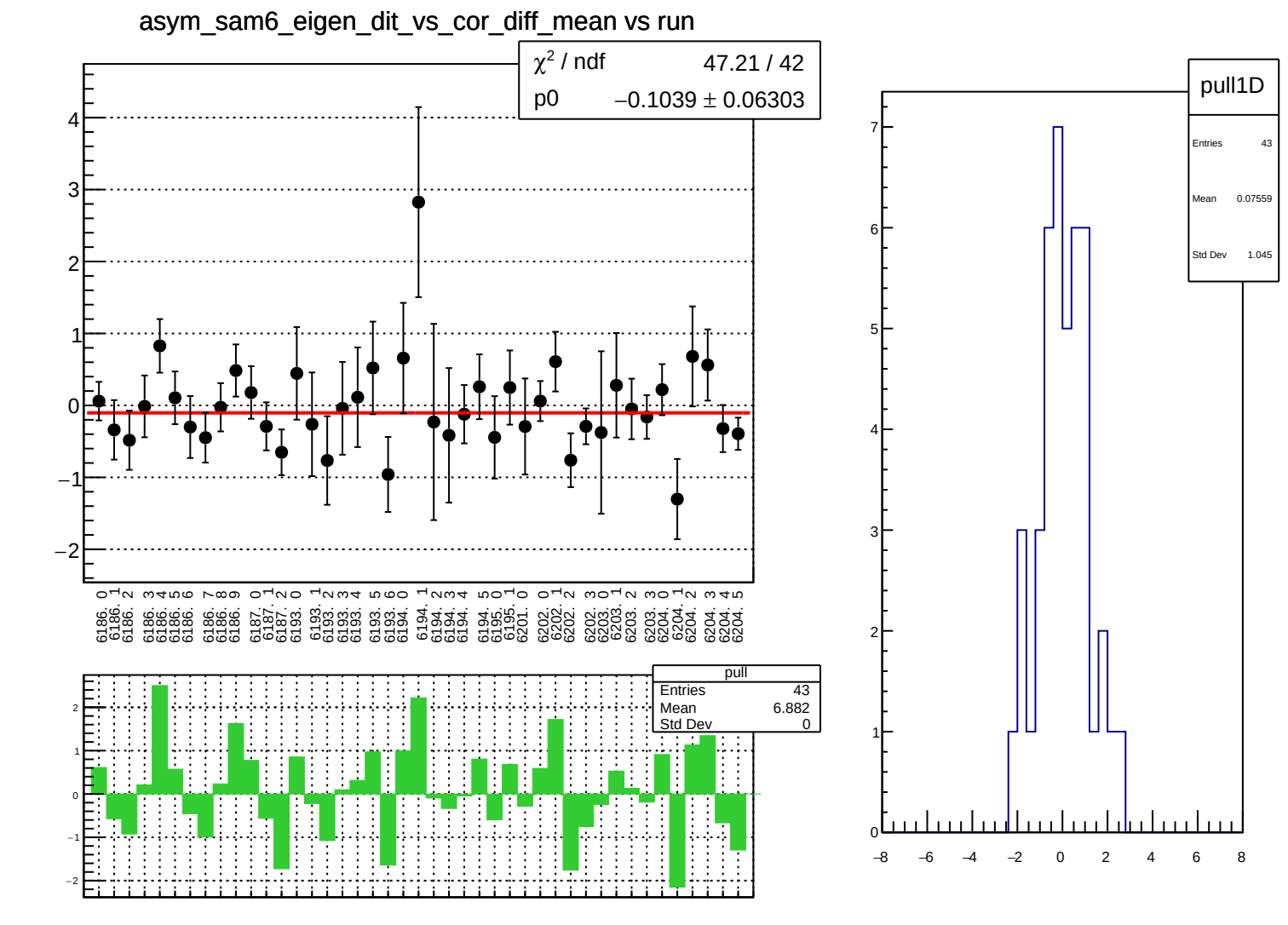

asym_sam6_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.201e+04 / 42
p0 38.68 ± 0.04457
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

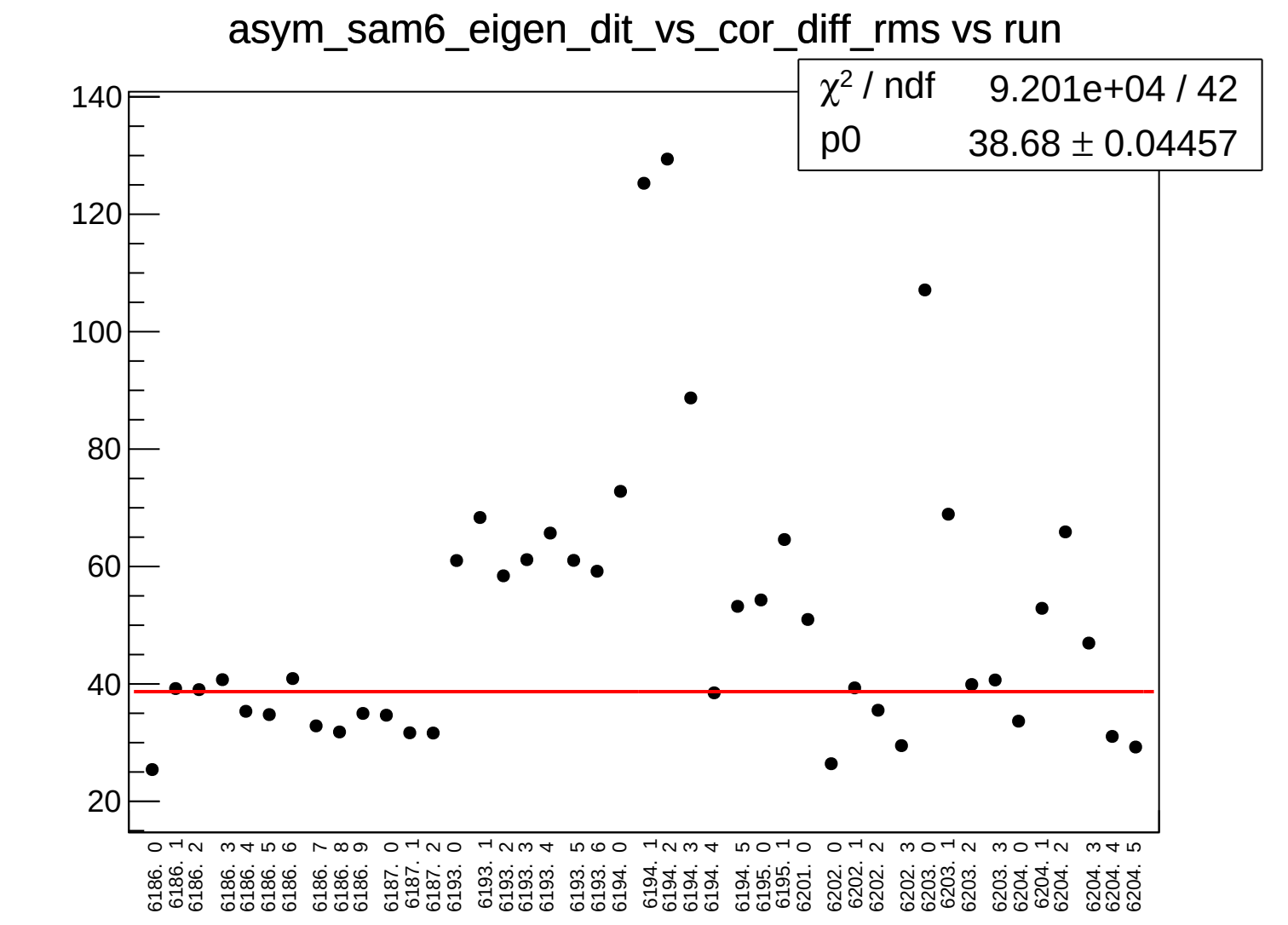

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.21 / 42
p0 −0.1039 ± 0.06303
4
3
2
1
0
−1
−2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 6.882
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.07558
Std Dev 1.045
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

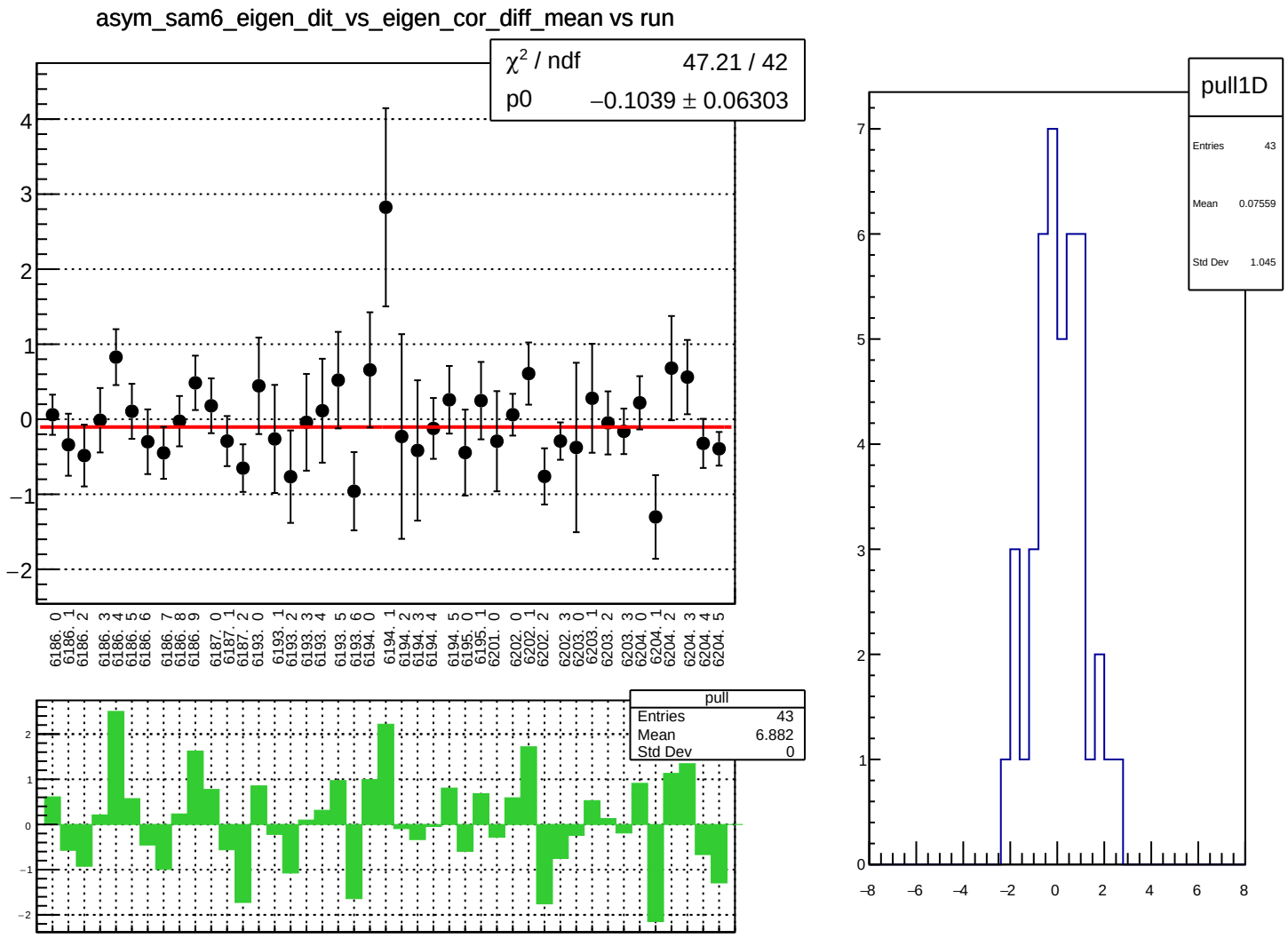

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.201e+04 / 42
p0 38.68 ± 0.04457
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

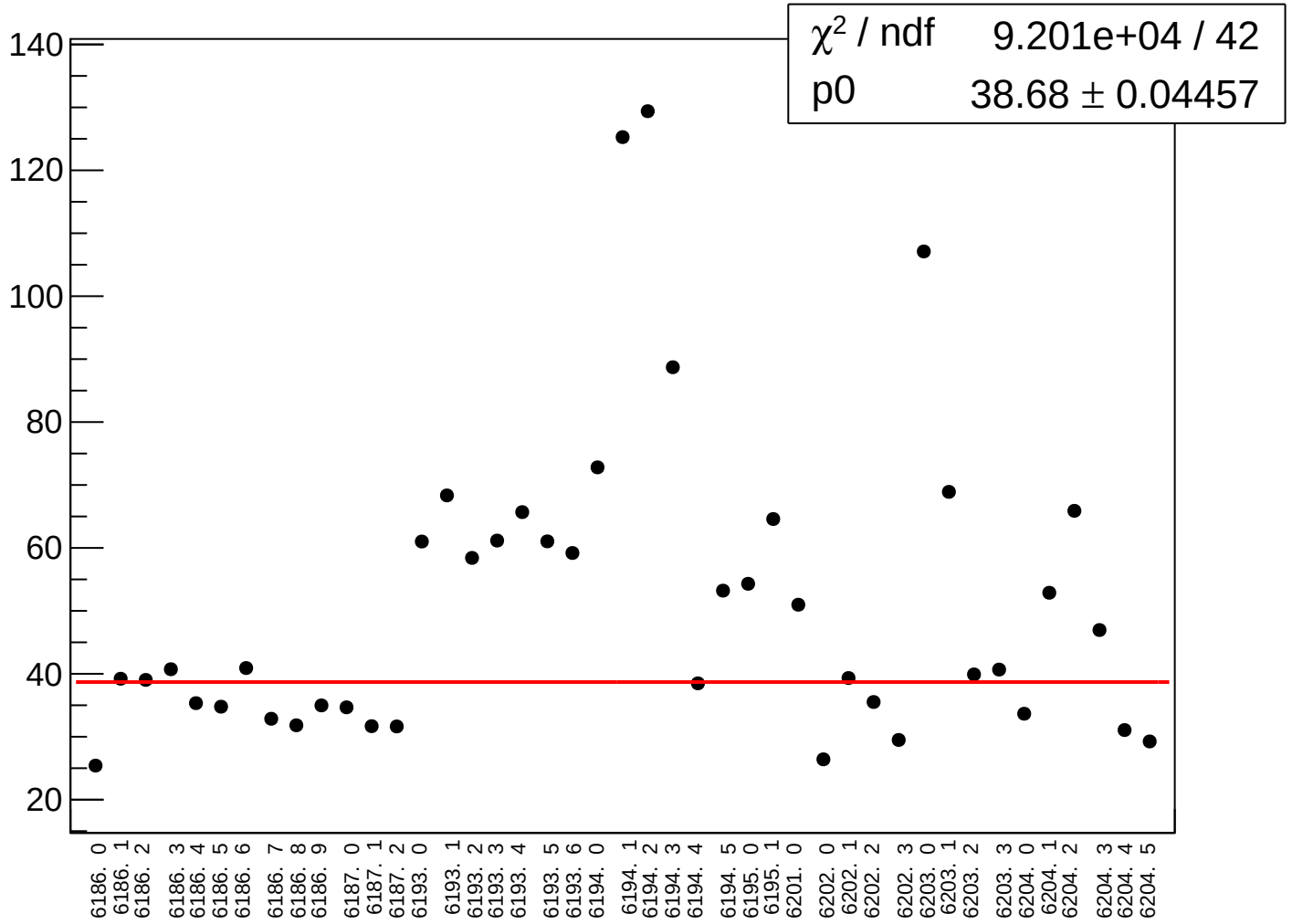

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 45.6 / 42
p0 −1.342e−06 ± 2.639e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 199
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.002962
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

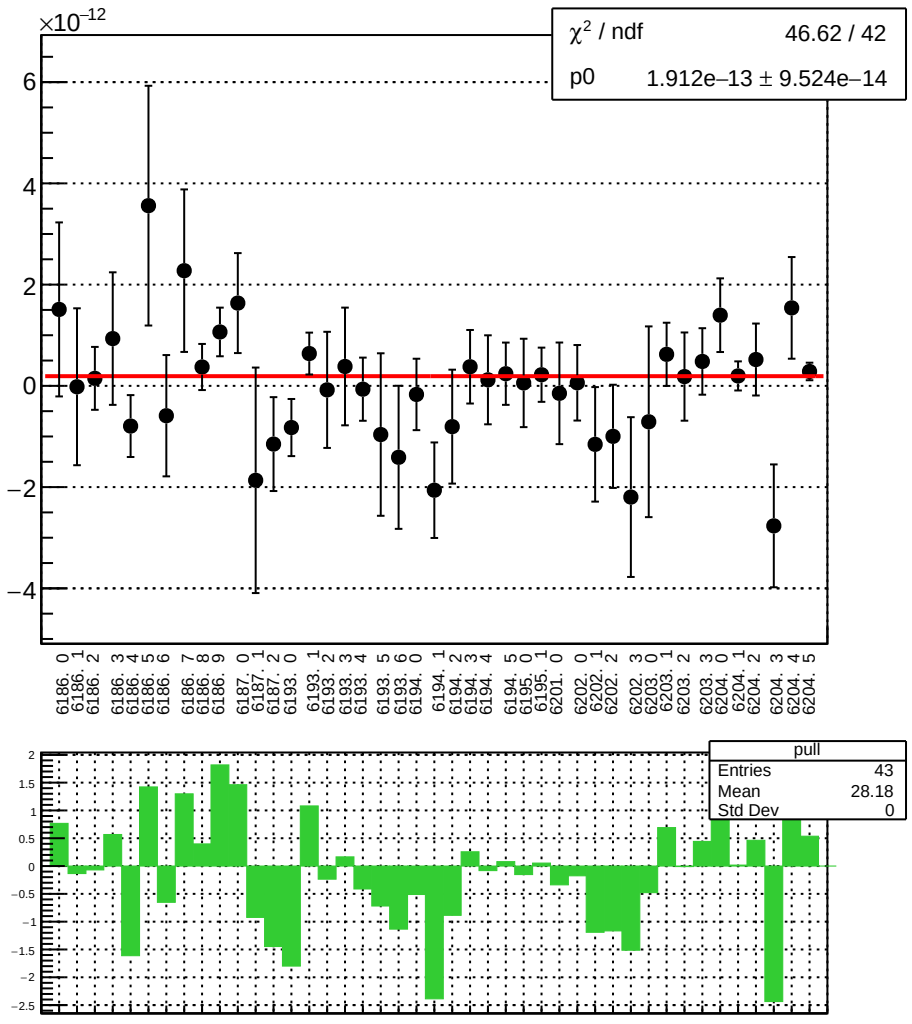

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2768 / 42
p0 0.001713 ± 1.866e−06
0.002
0.0019
0.0018
0.0017
0.0016
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

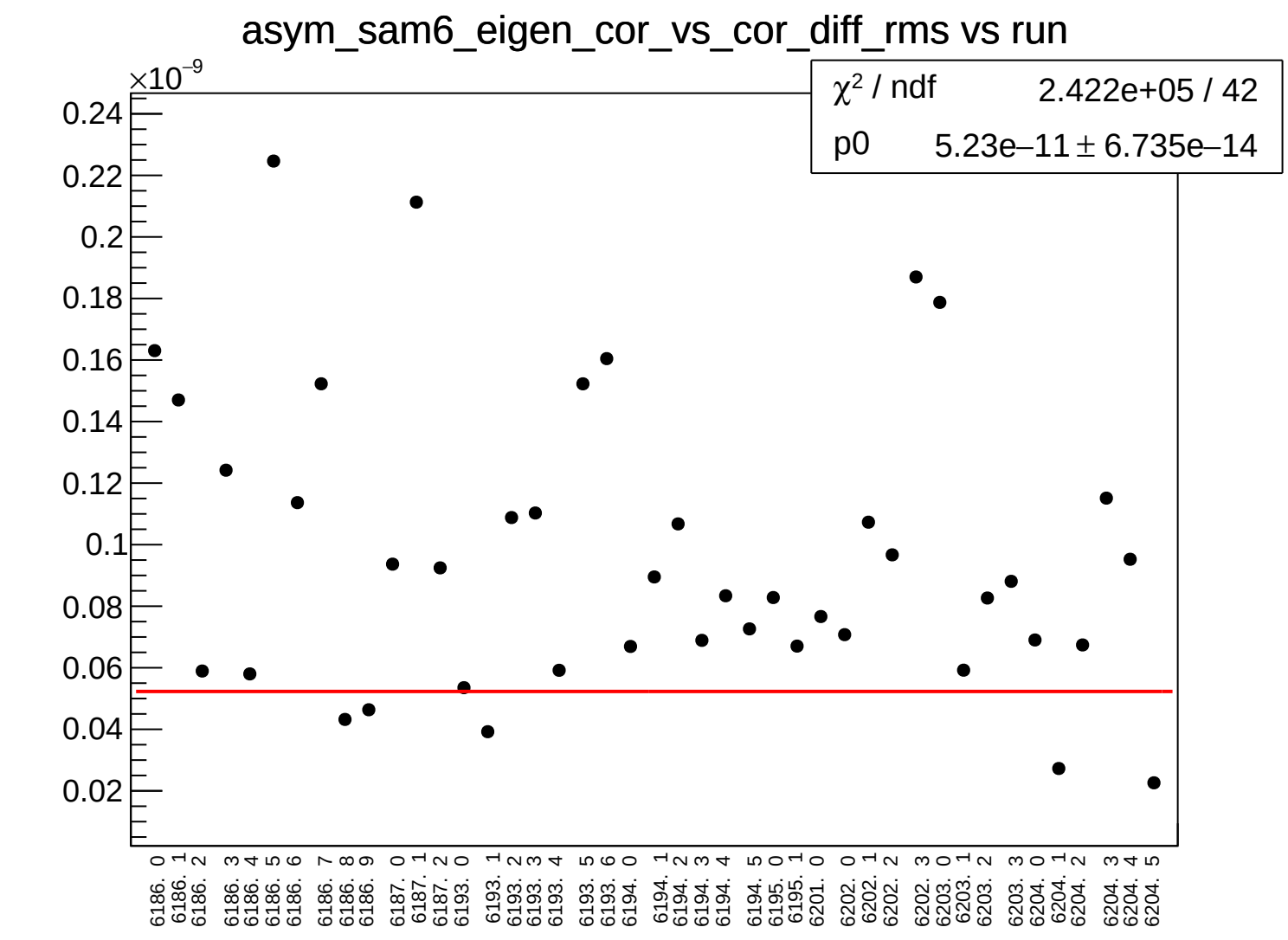

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.21 / 42
p0 −0.1039 ± 0.06303
pull
Entries 43
Mean 6.882
Std Dev 0
pull1D
Entries 43
Mean 0.07559
Std Dev 1.045

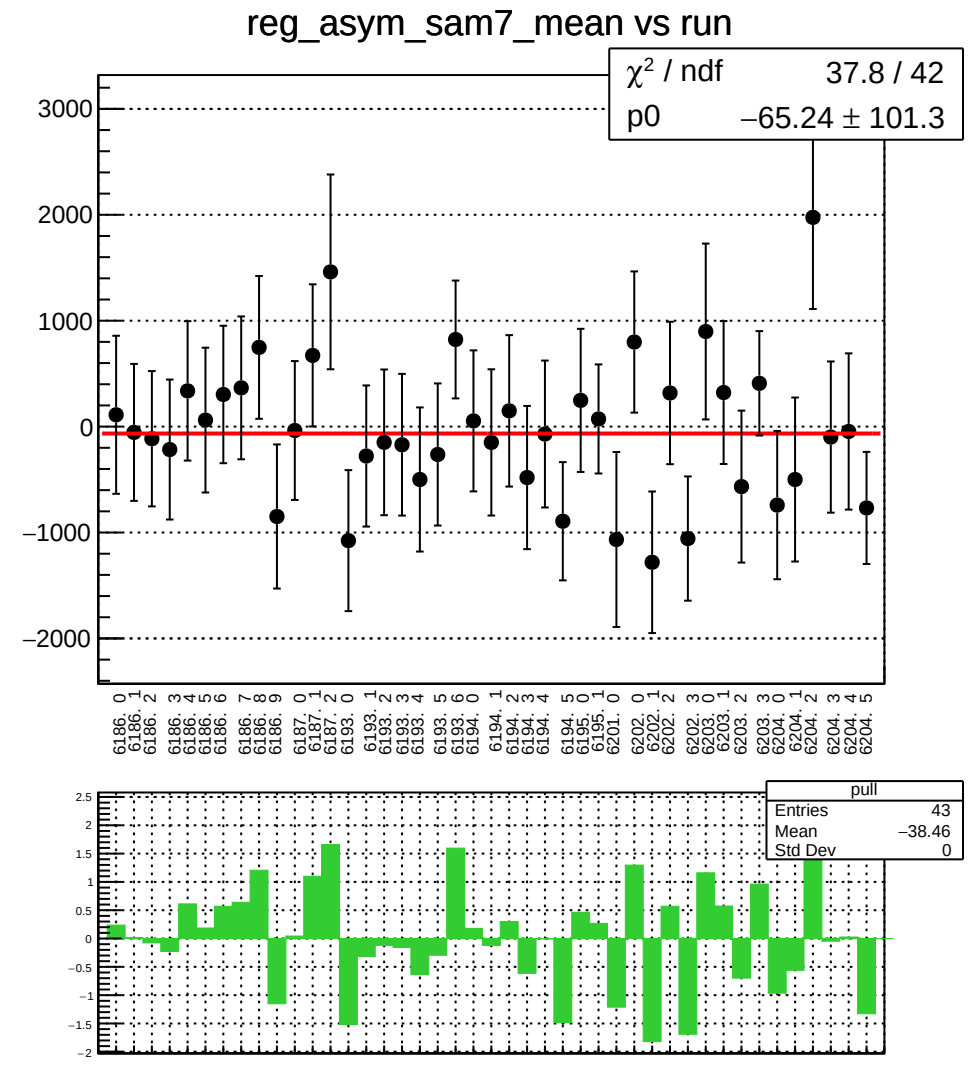

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.201e+04 / 42
p0 38.68 ± 0.04457
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

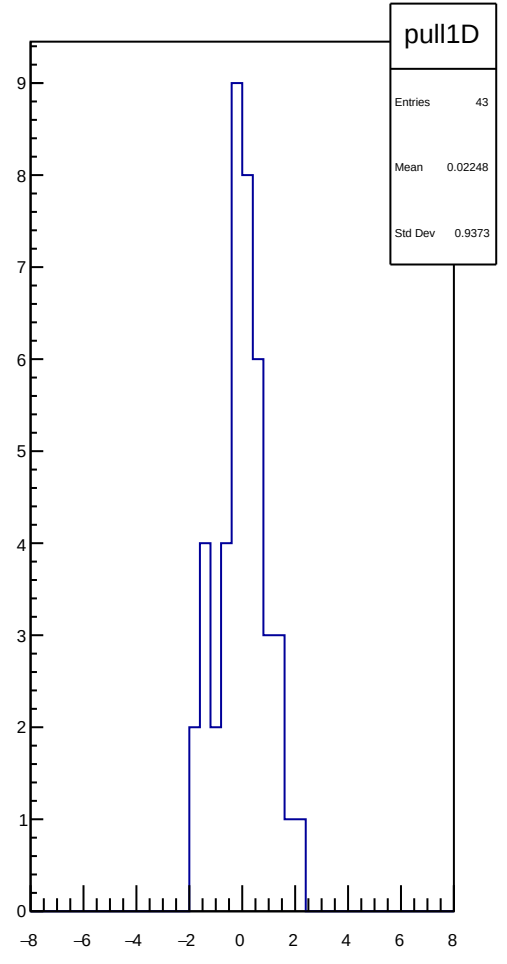

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.21 / 42
p0 −0.1039 ± 0.06303
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 6.882
Std Dev 0
pull1D
Entries 43
Mean 0.07559
Std Dev 1.045

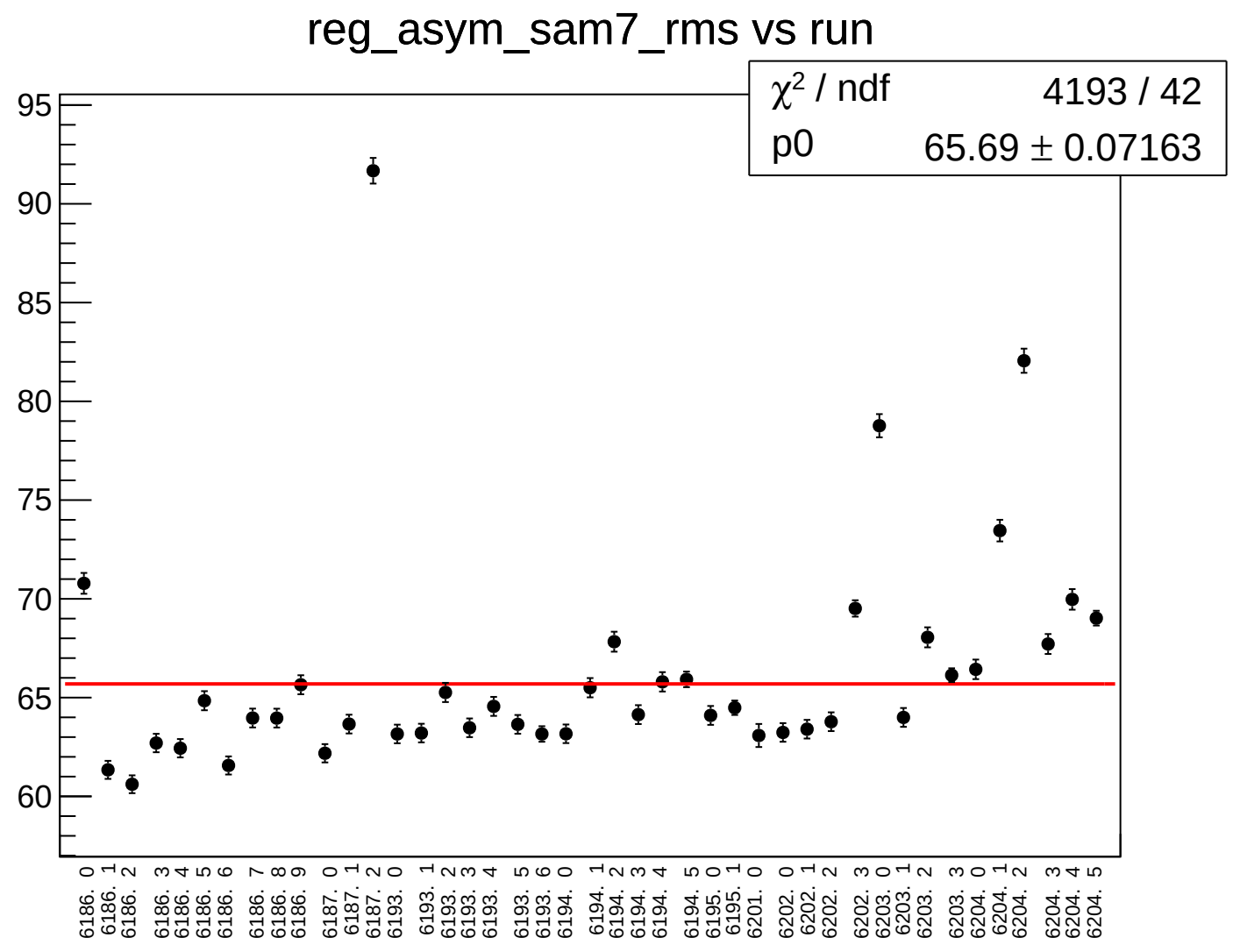

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.201e+04 / 42
p0 38.68 ± 0.04457
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

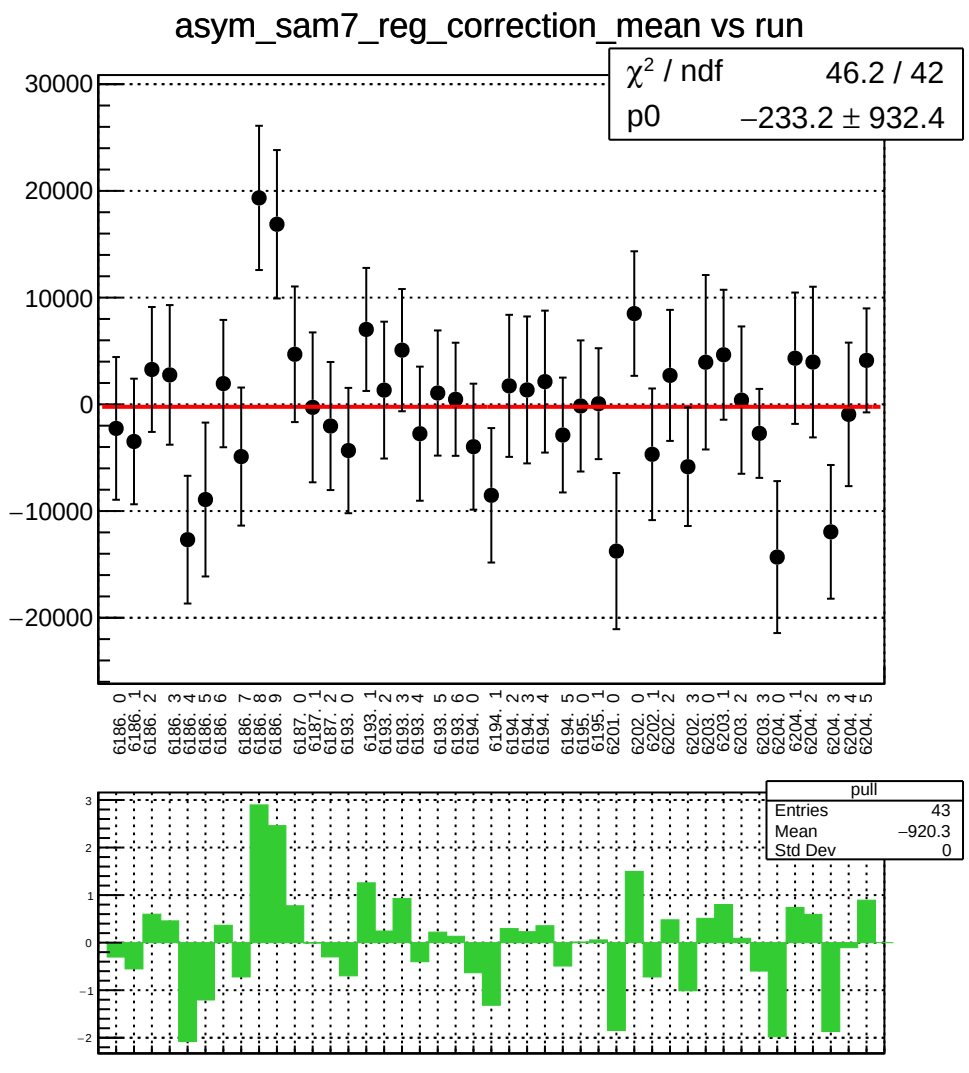

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 46.62 / 42
p0 1.912e−13 ± 9.524e−14
6
4
2
0
−2
−4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 28.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.1382
Std Dev 1.032
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

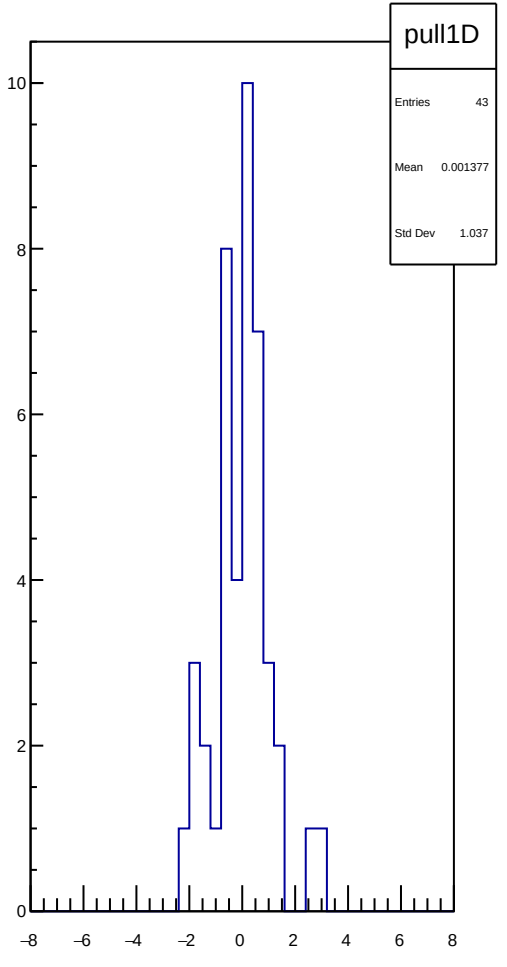

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.422e+05 / 42
p0 5.23e−11 ± 6.735e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

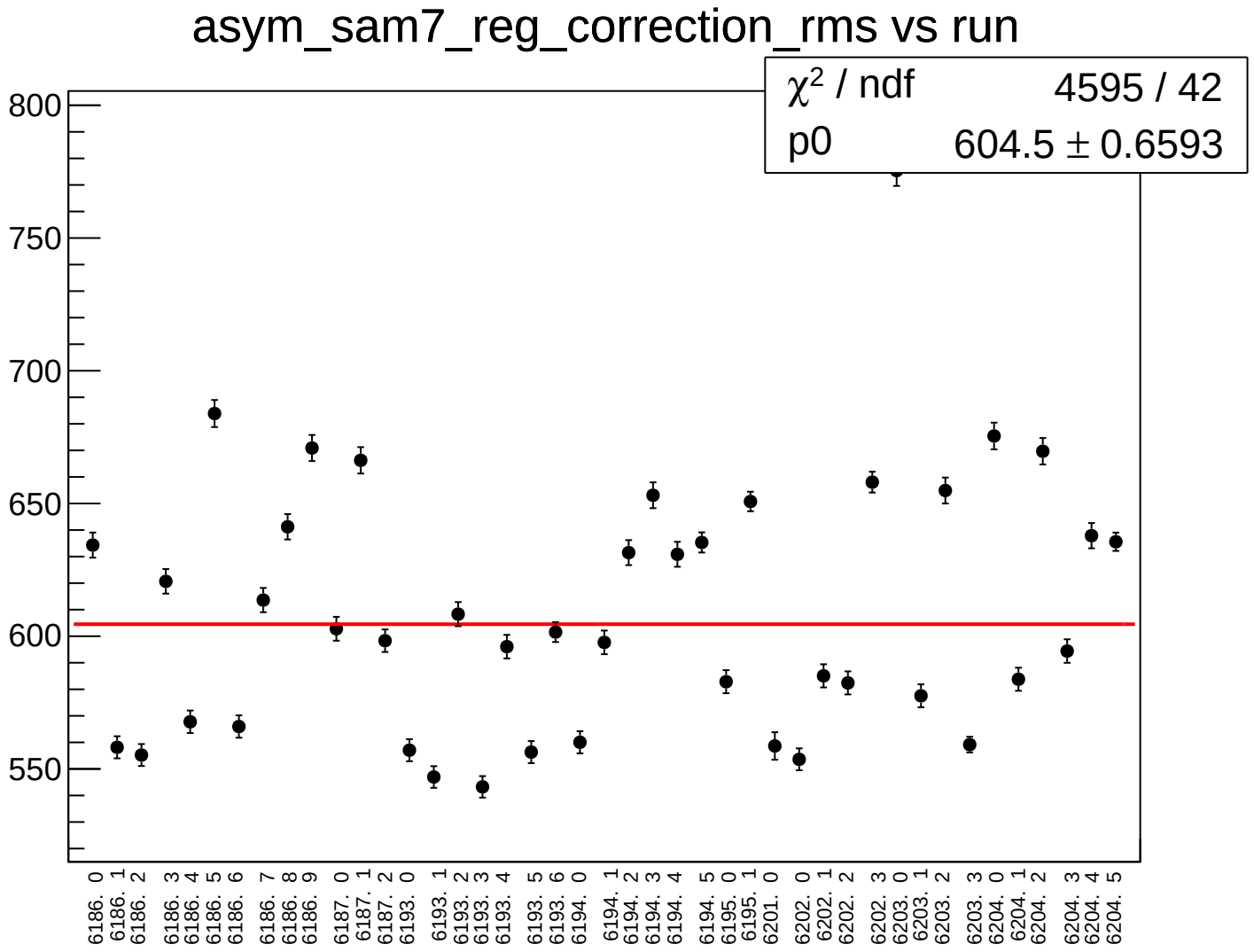

reg_asym_sam7_mean vs run
χ² / ndf 37.8 / 42
p0 −65.24 ± 101.3
3000
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −38.46
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

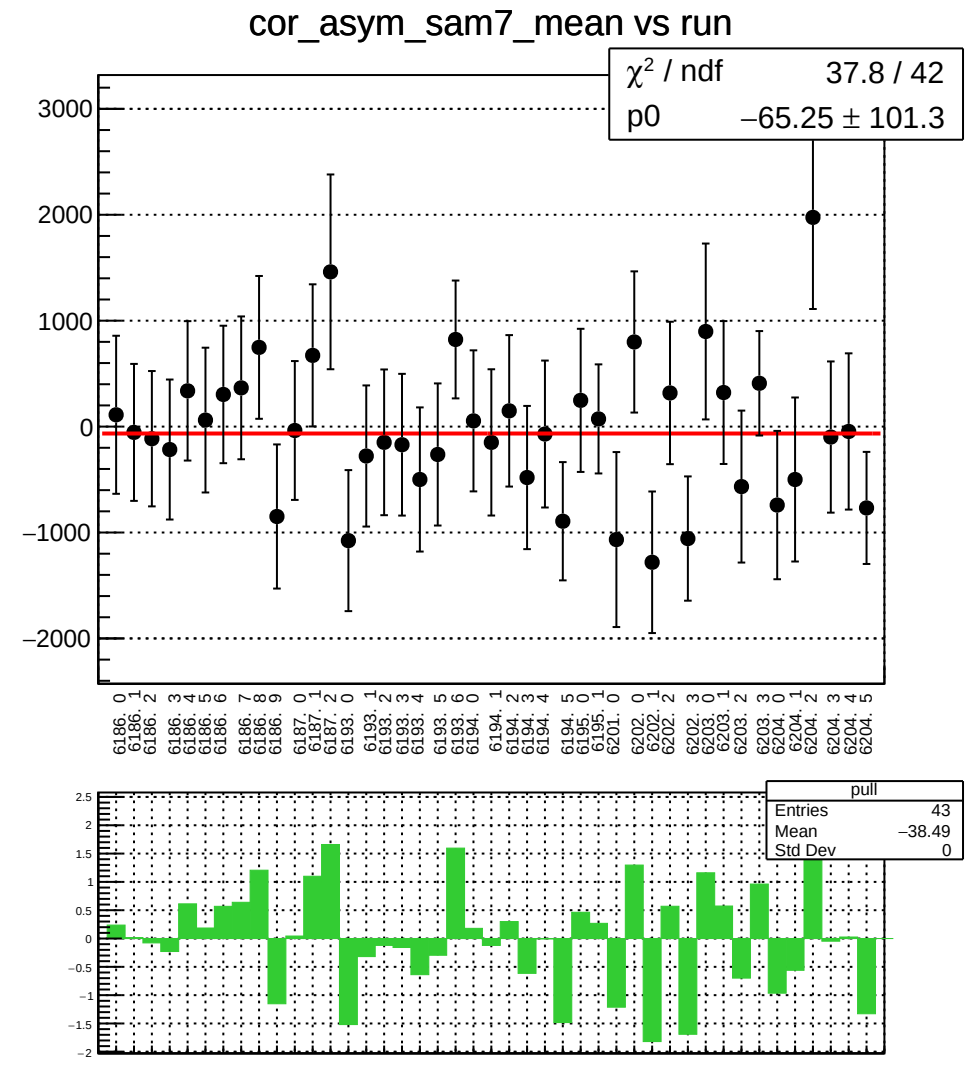

pull1D
Entries 43
Mean 0.02248
Std Dev 0.9373
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

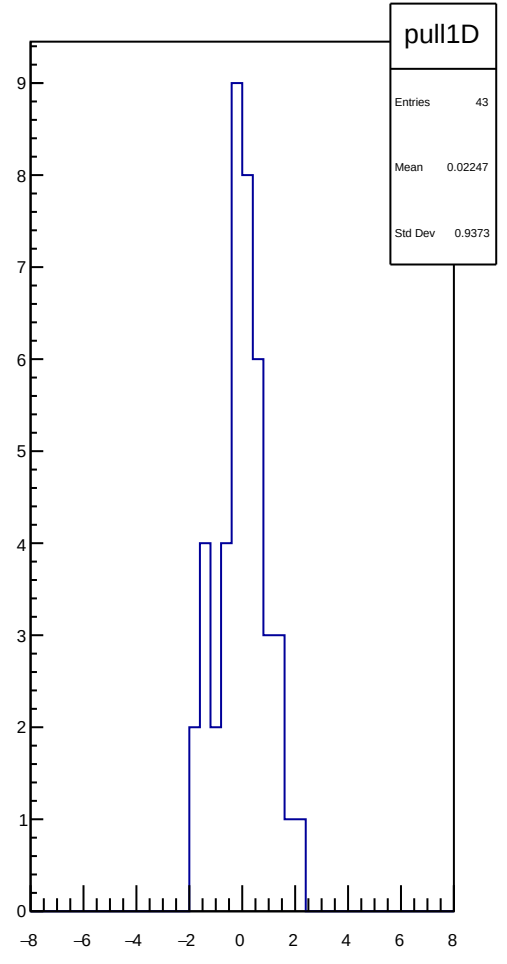

reg_asym_sam7_rms vs run
χ² / ndf 4193 / 42
p0 65.69 ± 0.07163
95
90
85
80
75
70
65
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

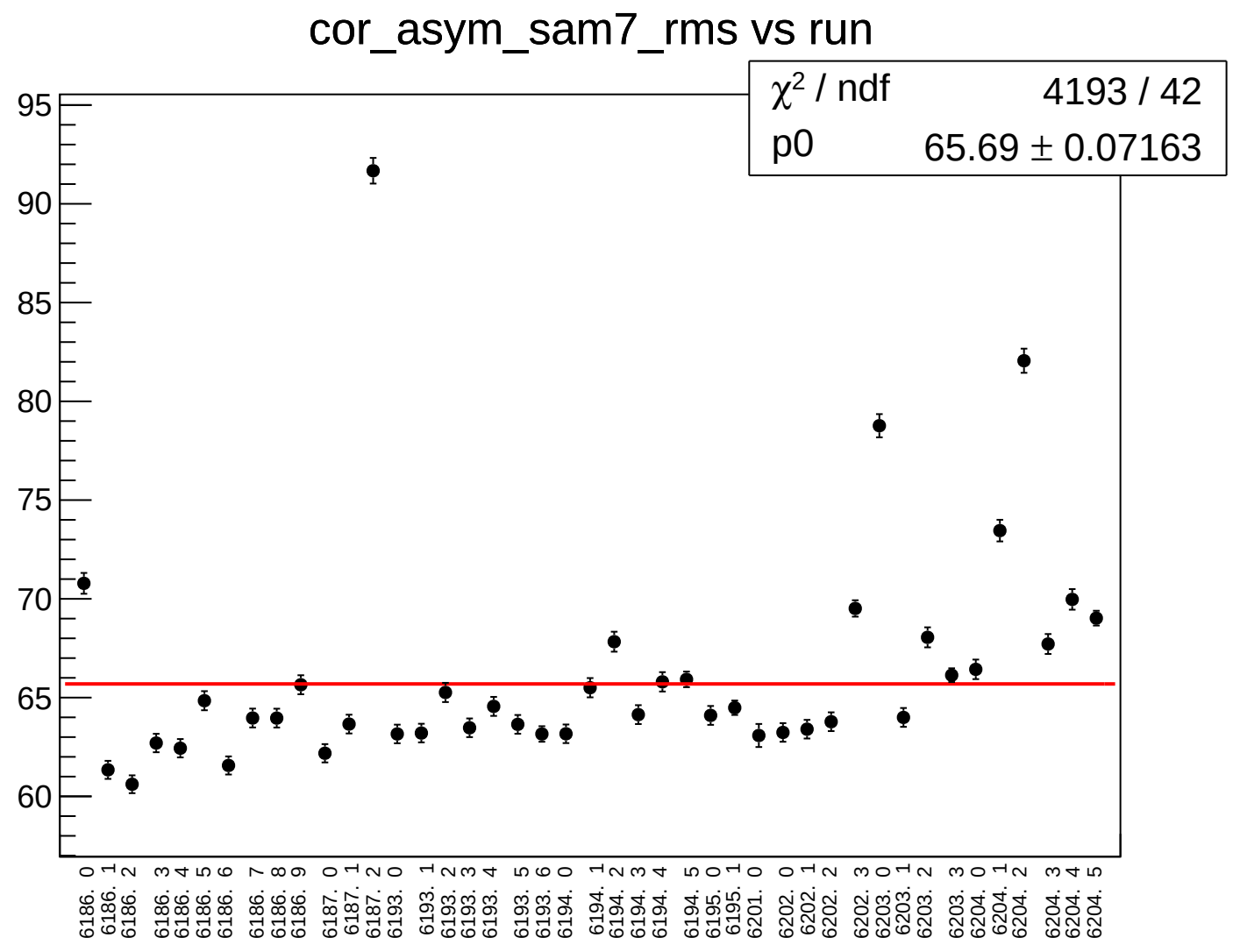

asym_sam7_reg_correction_mean vs run
χ² / ndf 46.2 / 42
p0 −233.2 ± 932.4
30000
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −920.3
Std Dev 0
3
2
1
0
−1
−2

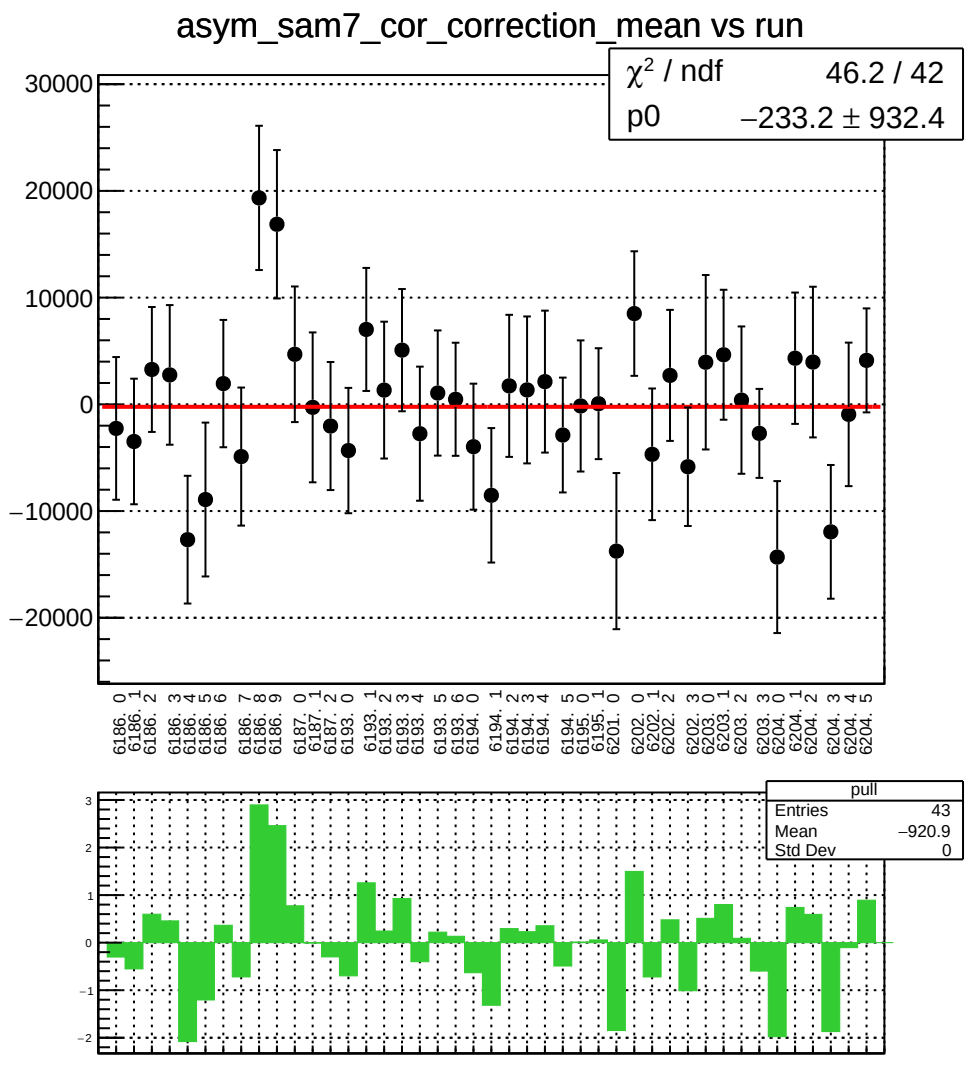

pull1D
Entries 43
Mean 0.001377
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

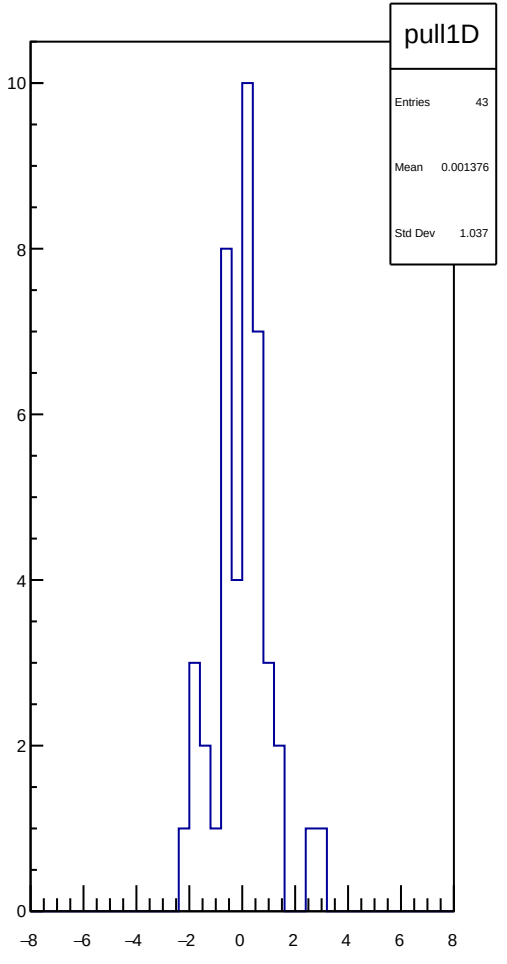

asym_sam7_reg_correction_rms vs run
χ² / ndf 4595 / 42
p0 604.5 ± 0.6593
800
750
700
650
600
550
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

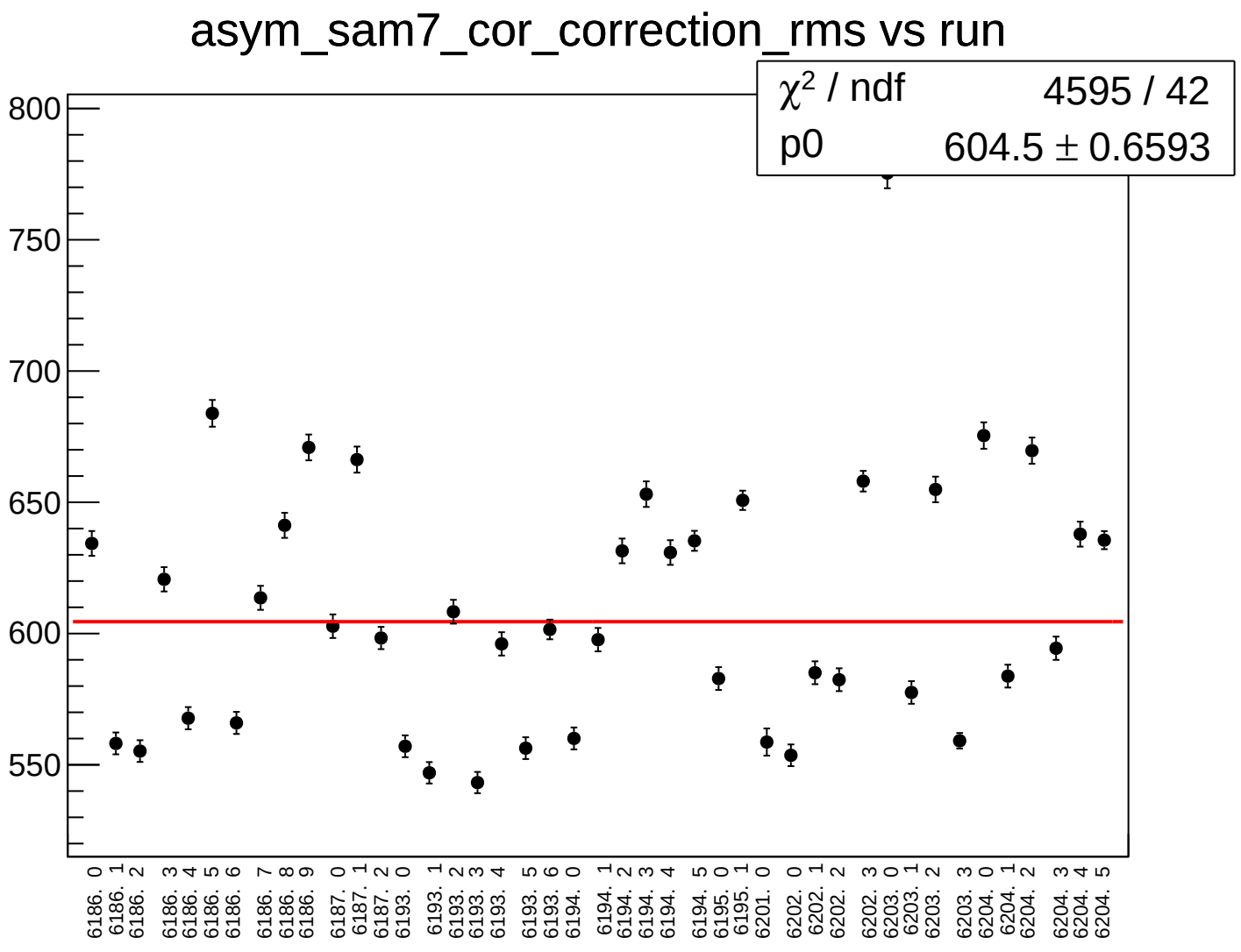

cor_asym_sam7_mean vs run
χ² / ndf 37.8 / 42
p0 −65.25 ± 101.3
3000
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −38.49
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

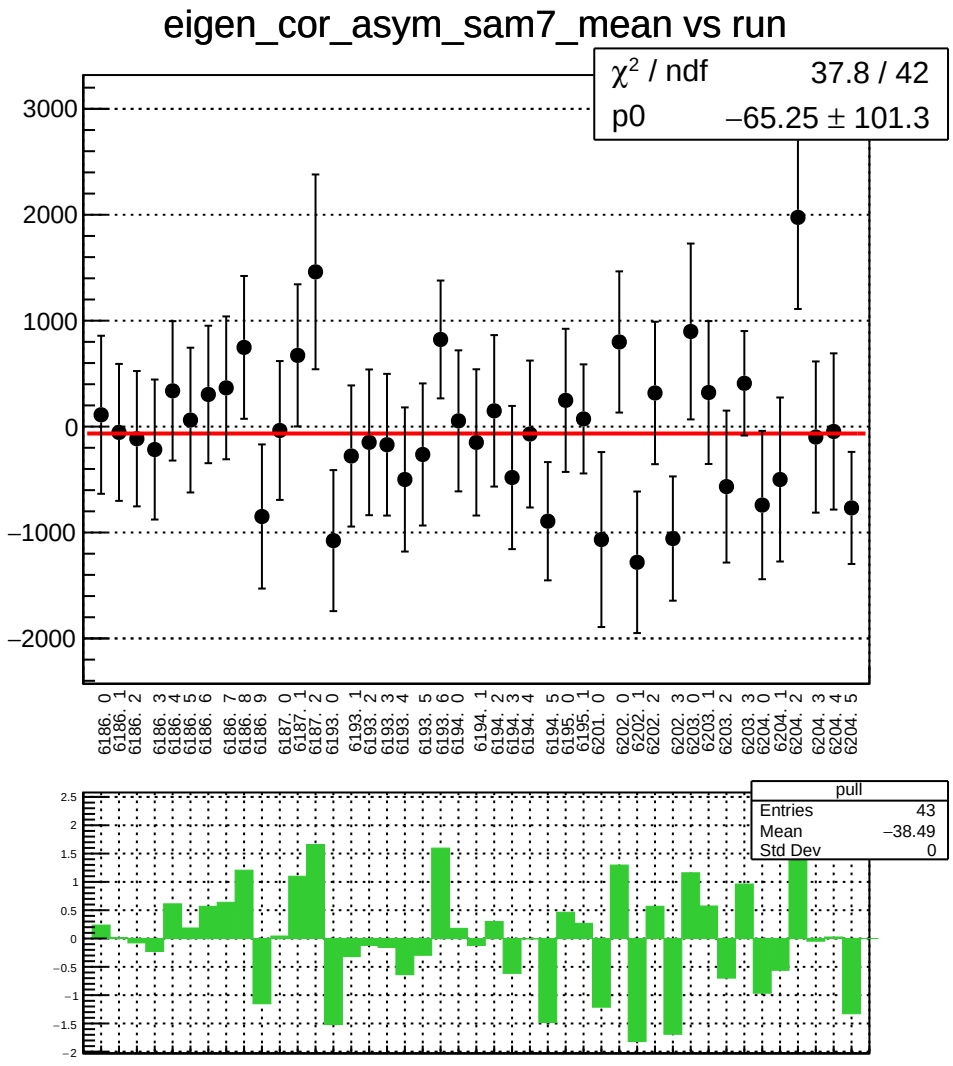

pull1D
Entries 43
Mean 0.02247
Std Dev 0.9373
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

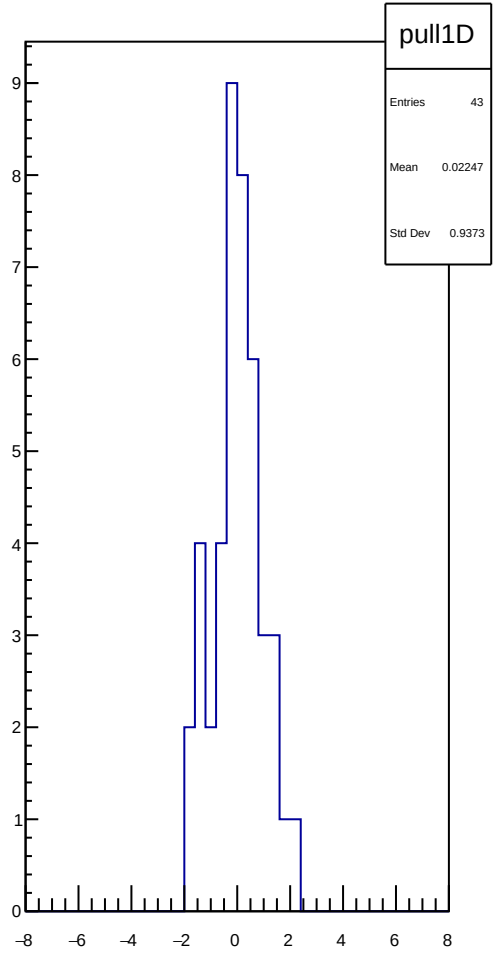

cor_asym_sam7_rms vs run
χ² / ndf 4193 / 42
p0 65.69 ± 0.07163
95
90
85
80
75
70
65
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

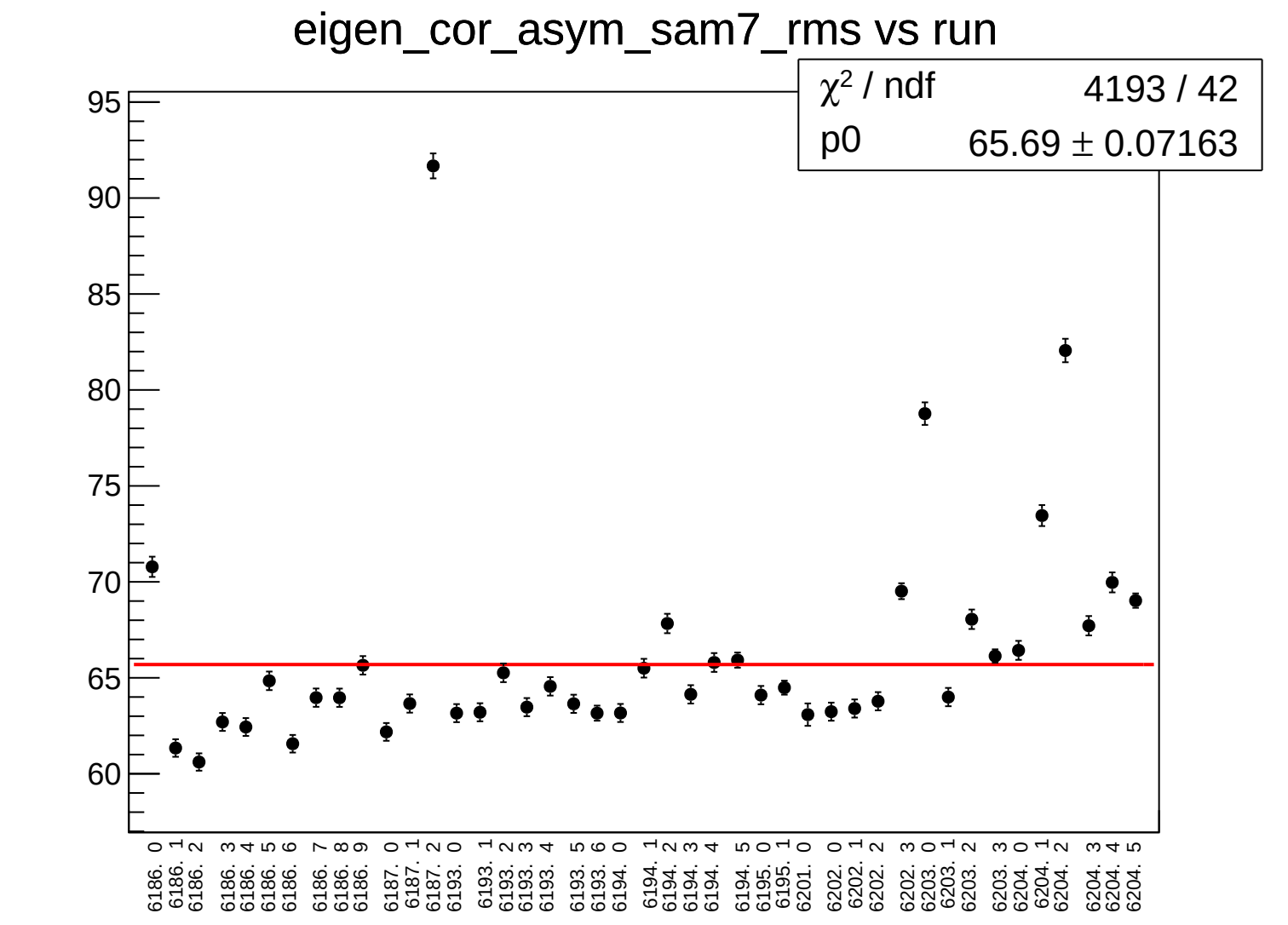

asym_sam7_cor_correction_mean vs run
χ² / ndf 46.2 / 42
p0 −233.2 ± 932.4
30000
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −920.9
Std Dev 0
3
2
1
0
−1
−2

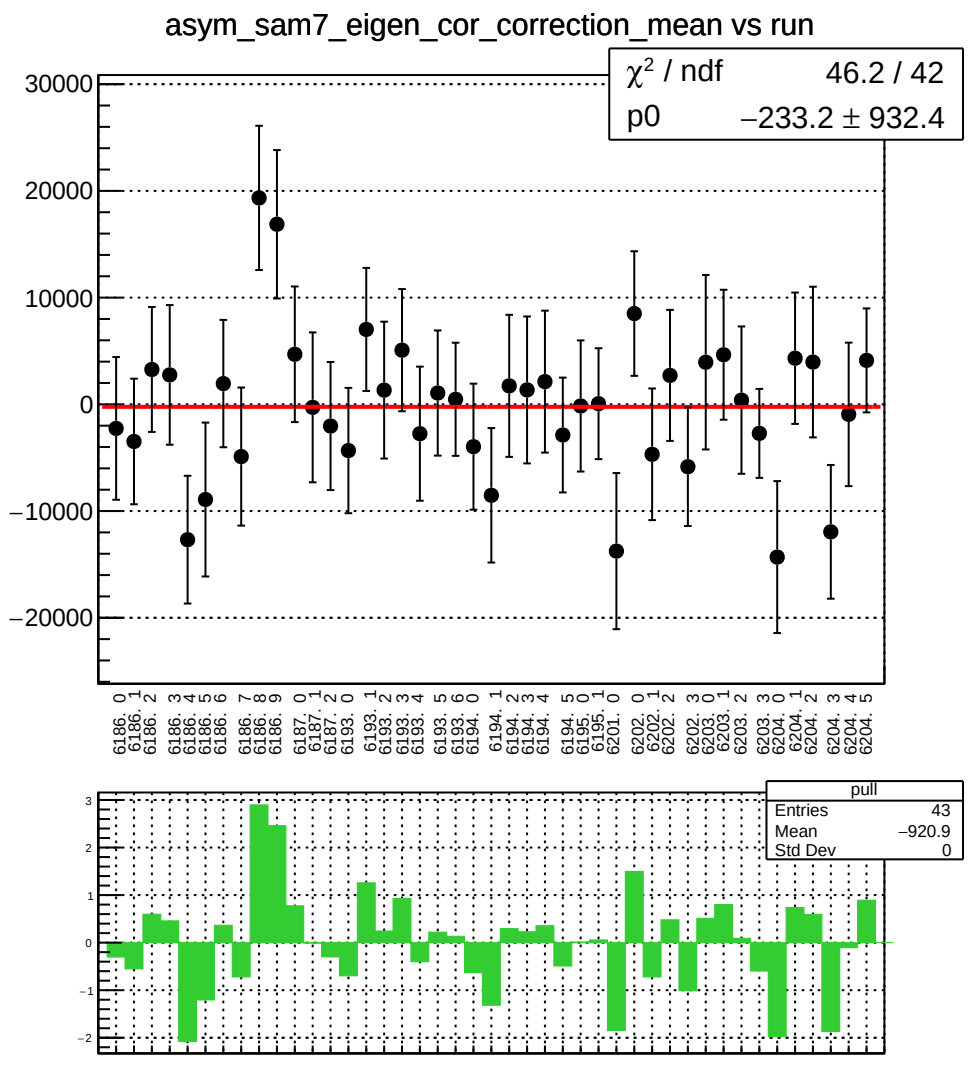

pull1D
Entries 43
Mean 0.001376
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

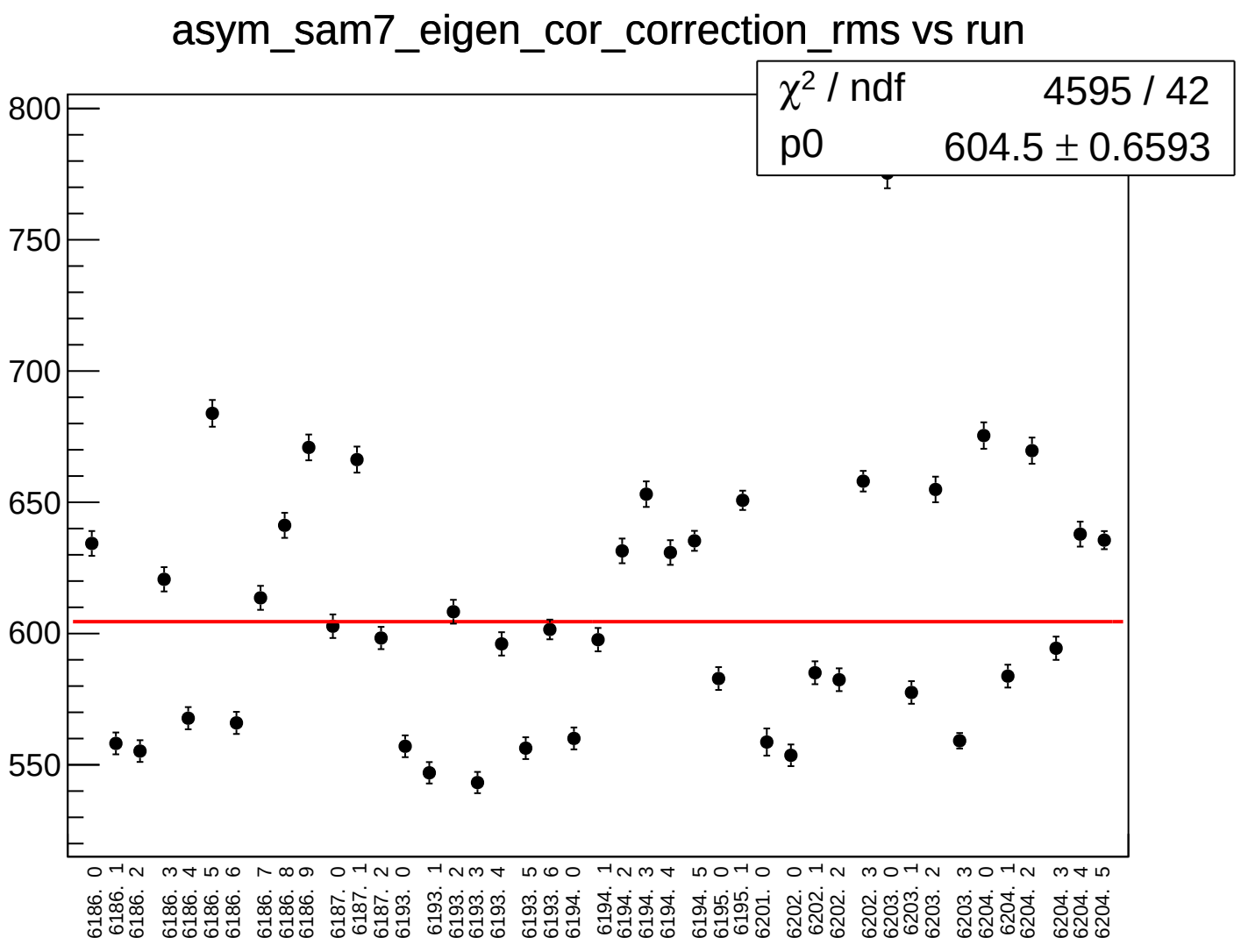

asym_sam7_cor_correction_rms vs run
χ² / ndf 4595 / 42
p0 604.5 ± 0.6593
800
750
700
650
600
550
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

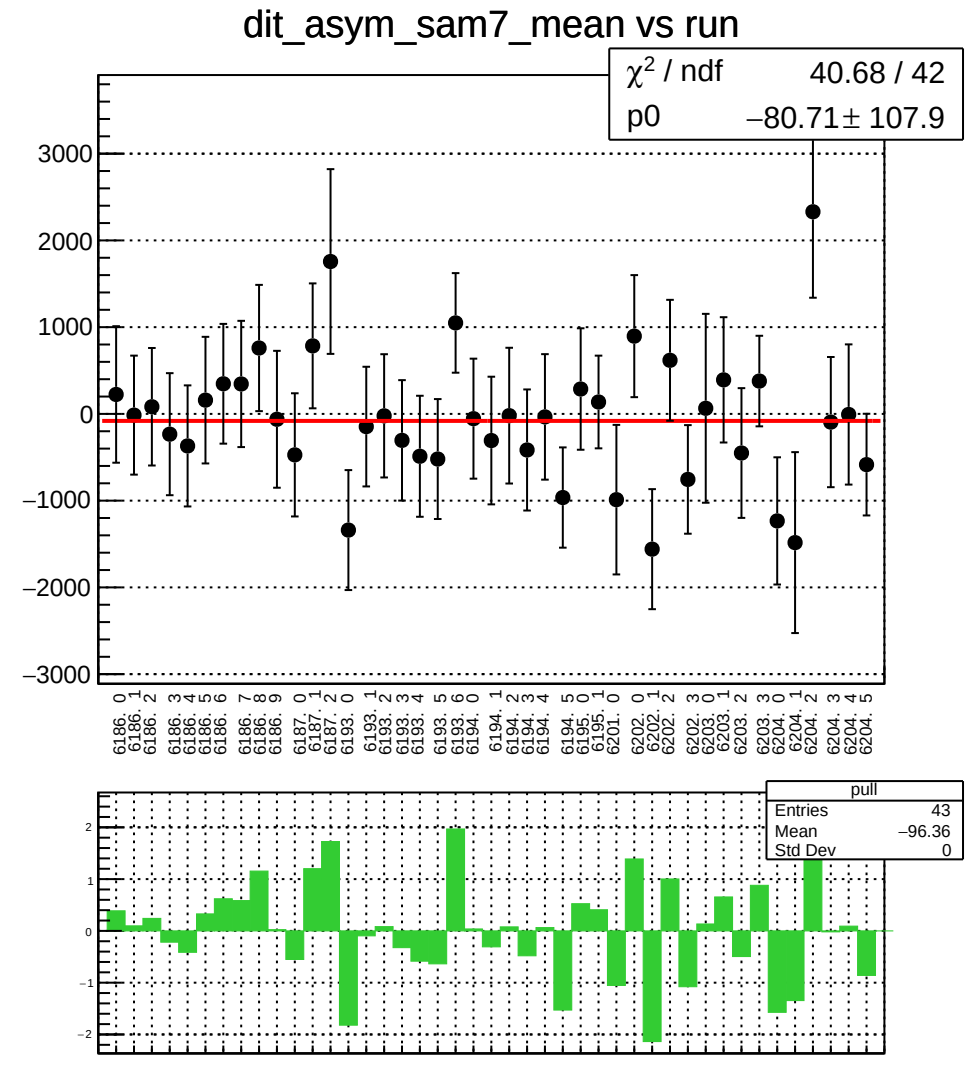

eigen_cor_asym_sam7_mean vs run
χ² / ndf 37.8 / 42
p0 −65.25 ± 101.3
3000
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −38.49
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

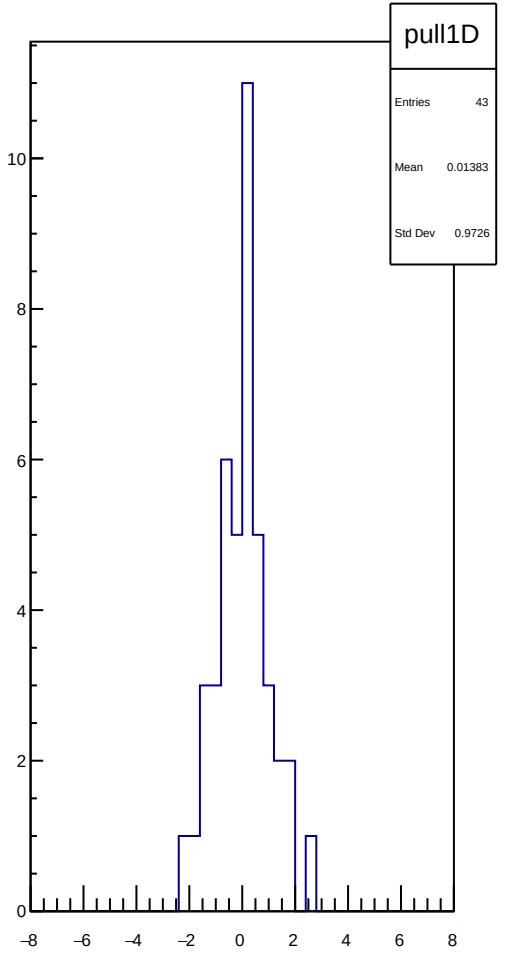

pull1D
Entries 43
Mean 0.02247
Std Dev 0.9373
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

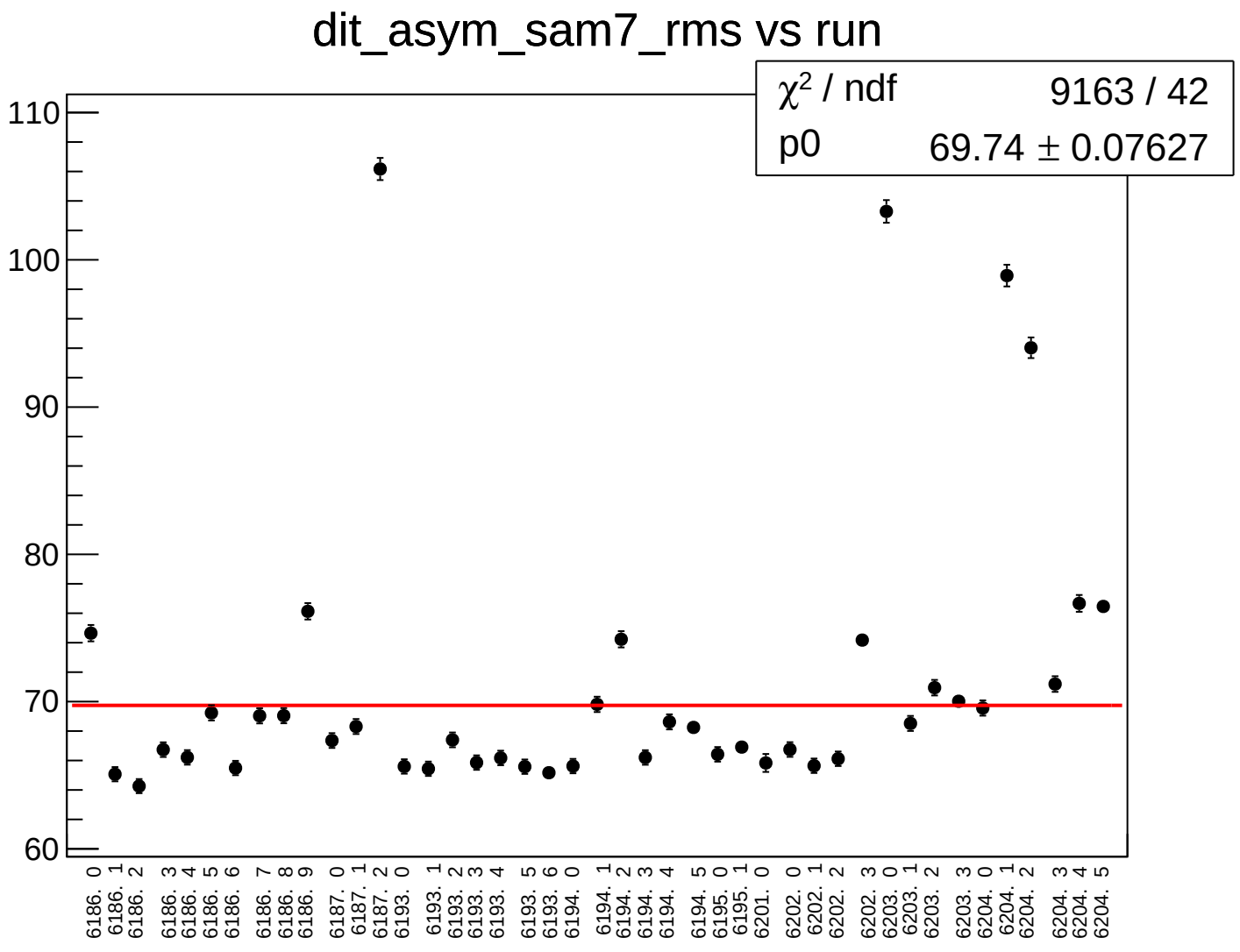

eigen_cor_asym_sam7_rms vs run
χ² / ndf 4193 / 42
p0 65.69 ± 0.07163
95
90
85
80
75
70
65
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

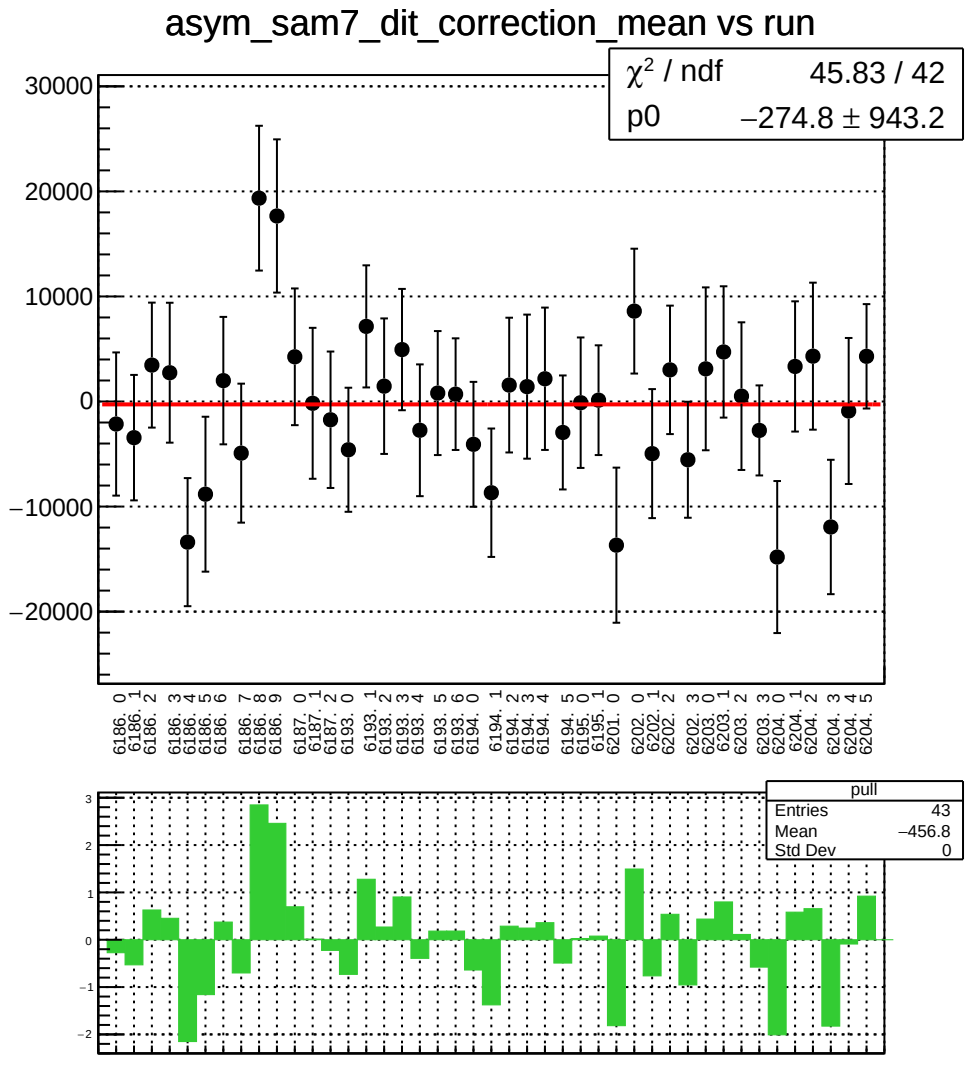

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 46.2 / 42
p0 −233.2 ± 932.4
30000
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −920.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.001376
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

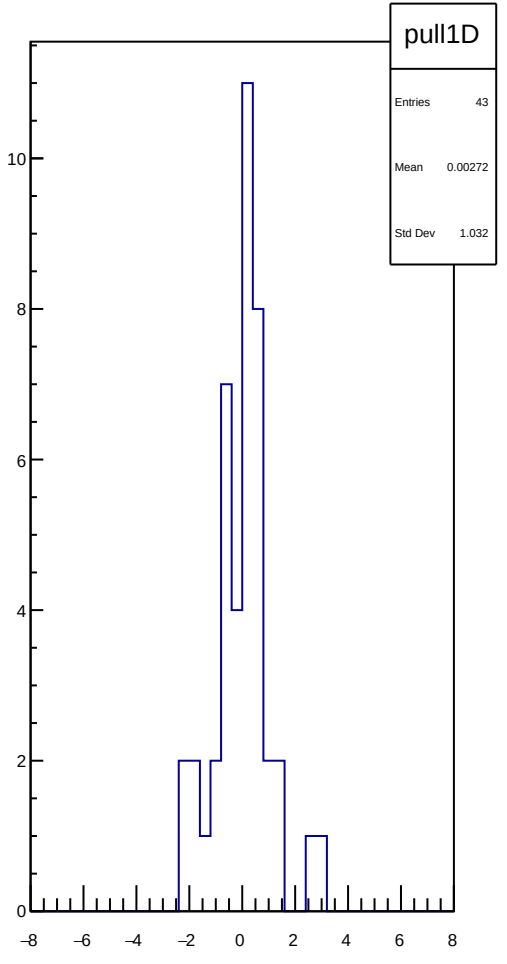

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 4595 / 42
p0 604.5 ± 0.6593
800
750
700
650
600
550
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

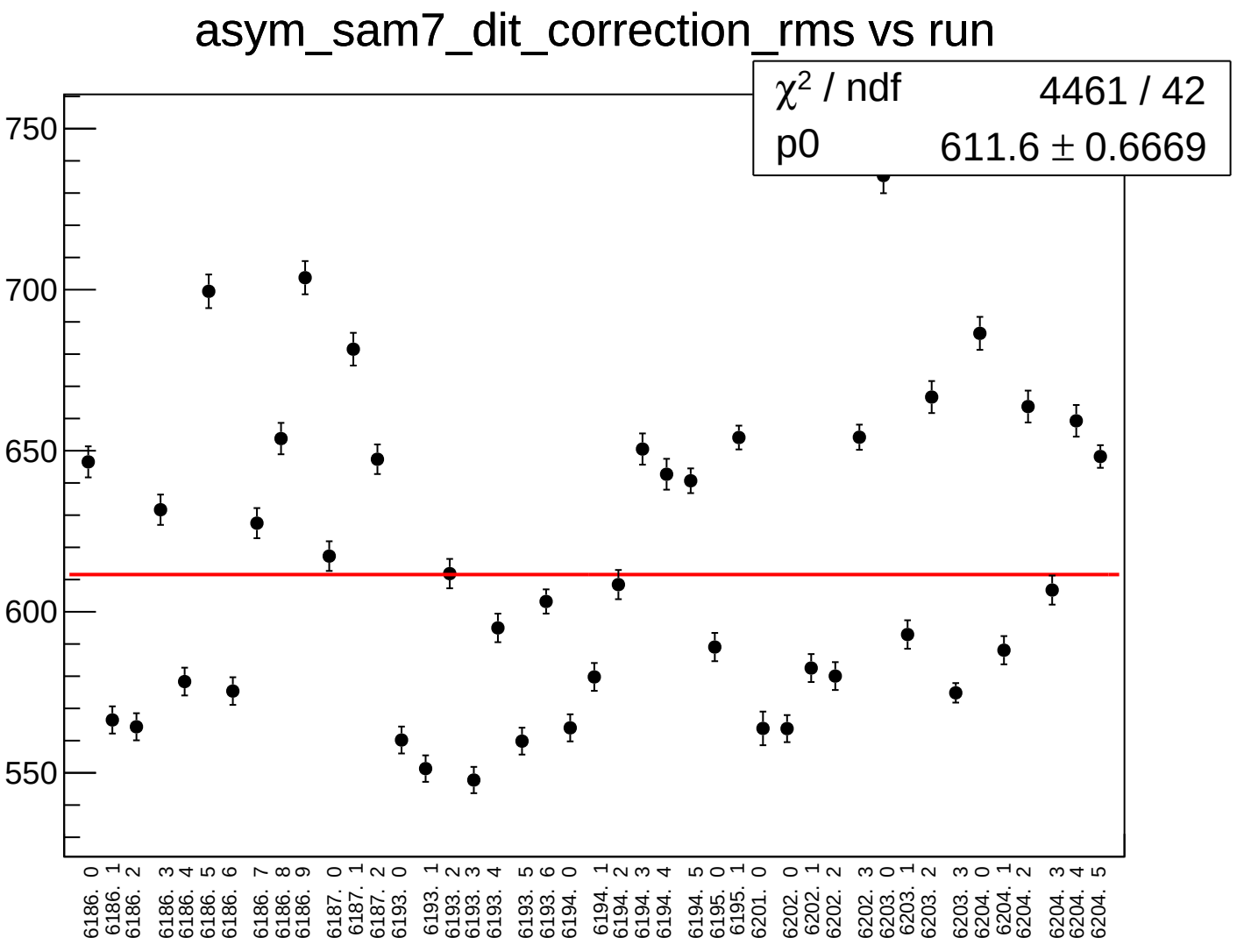

dit_asym_sam7_mean vs run
χ² / ndf 40.68 / 42
p0 −80.71± 107.9
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −96.36
Std Dev 0
2
1
0
−1
−2

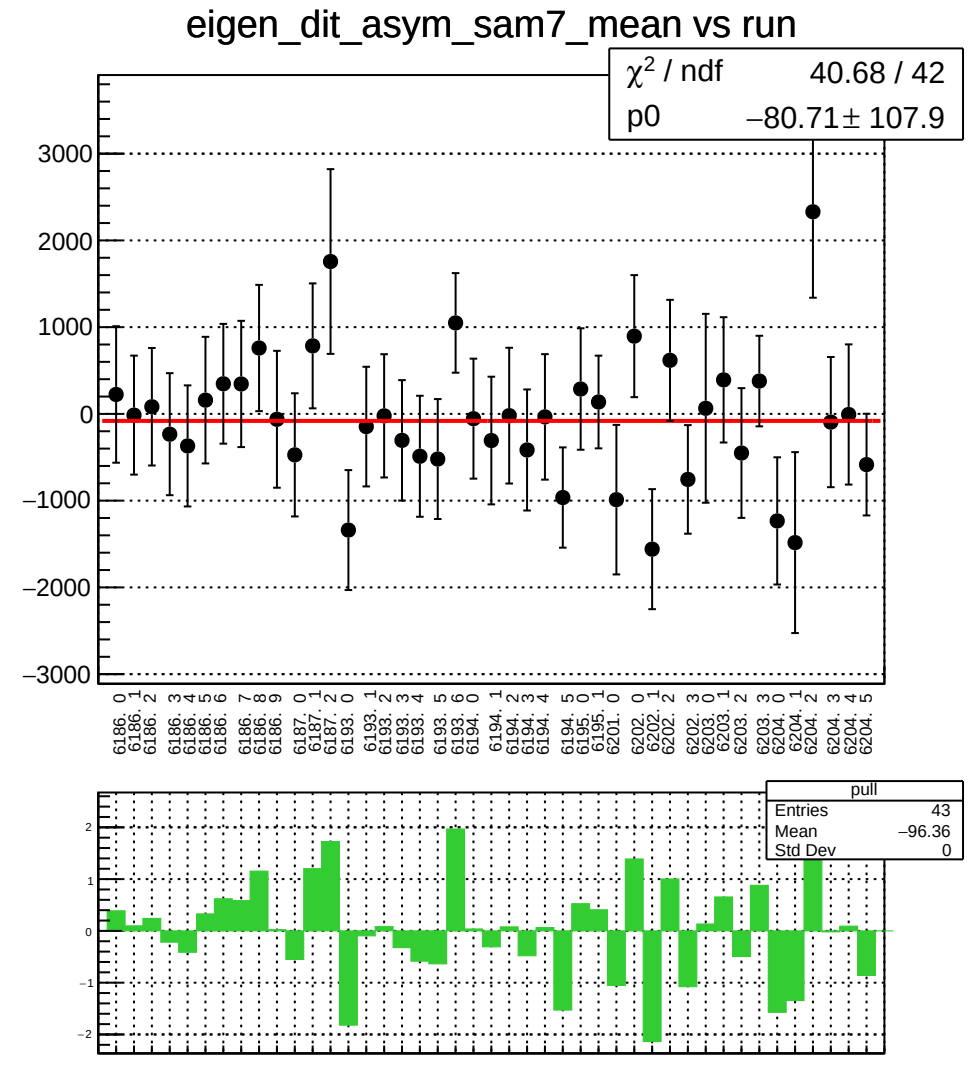

pull1D
Entries 43
Mean 0.01383
Std Dev 0.9726
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

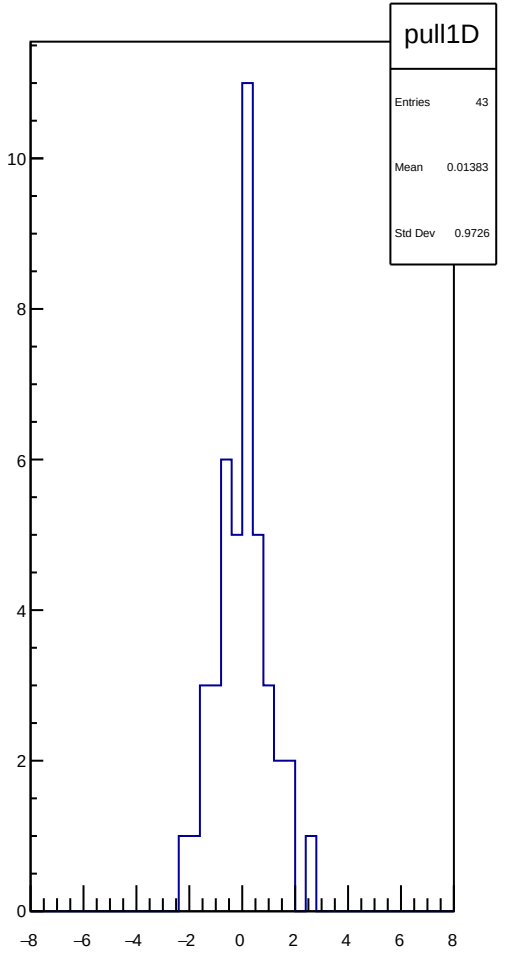

dit_asym_sam7_rms vs run
χ² / ndf 9163 / 42
p0 69.74 ± 0.07627
110
100
90
80
70
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

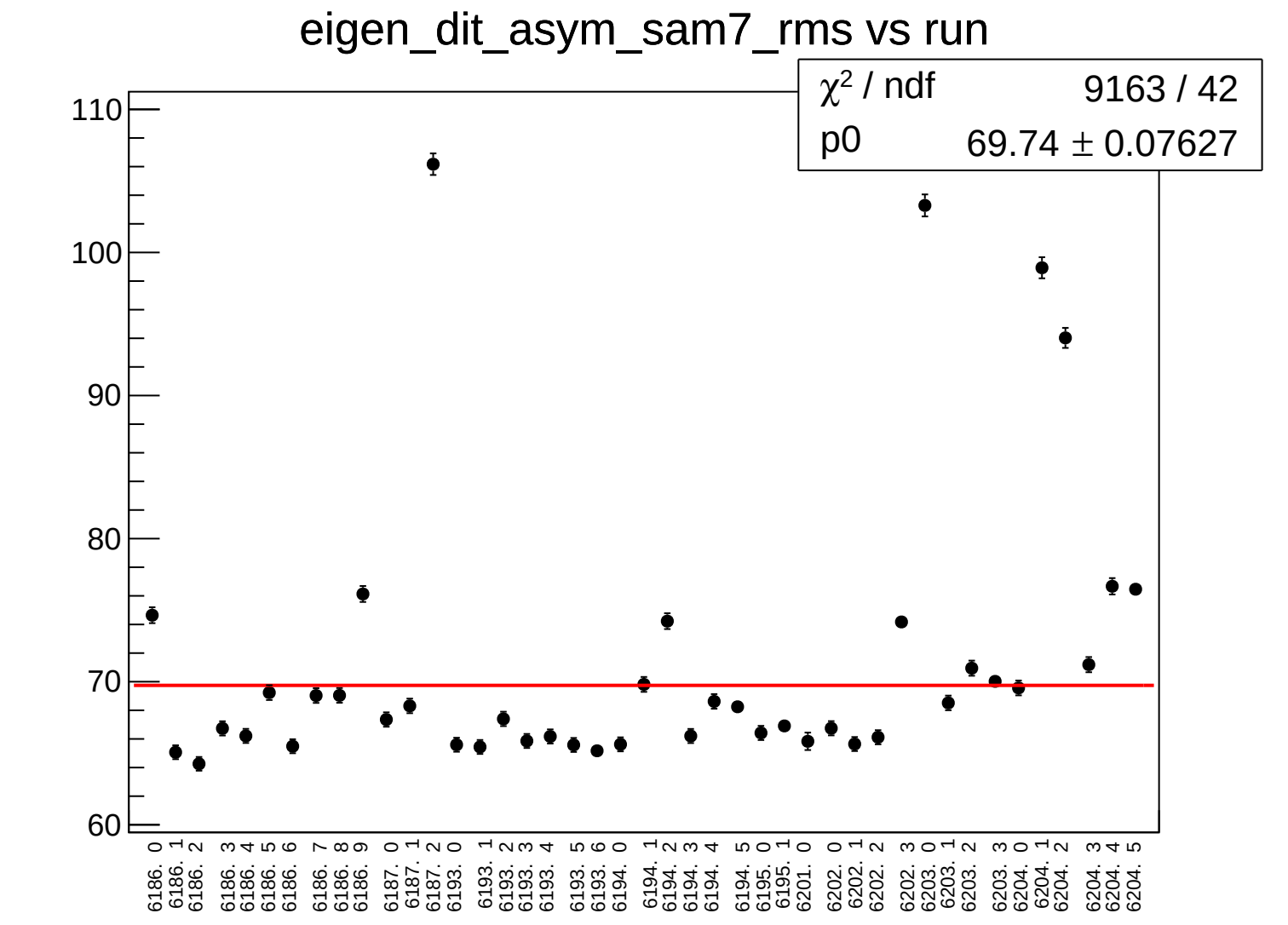

asym_sam7_dit_correction_mean vs run
χ² / ndf 45.83 / 42
p0 −274.8 ± 943.2
30000
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −456.8
Std Dev 0
3
2
1
0
−1
−2

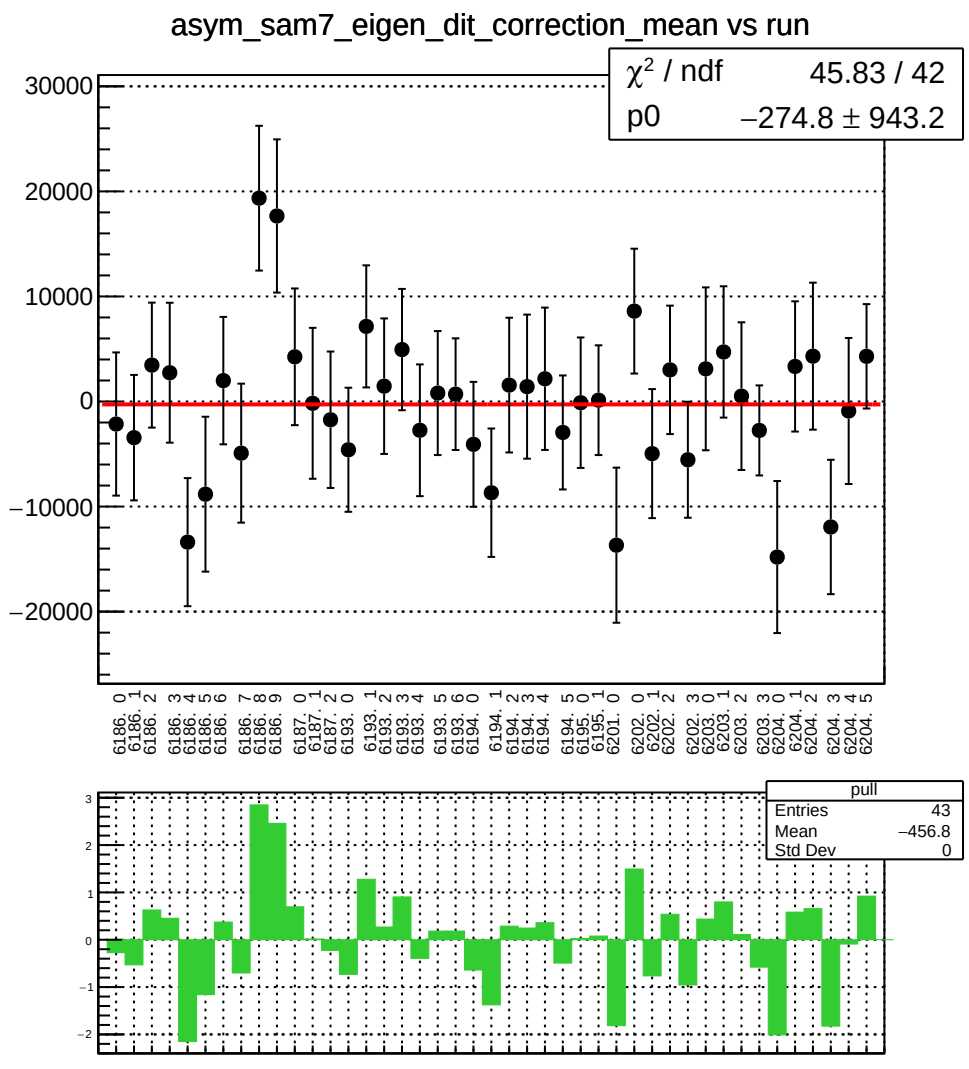

pull1D
Entries 43
Mean 0.00272
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

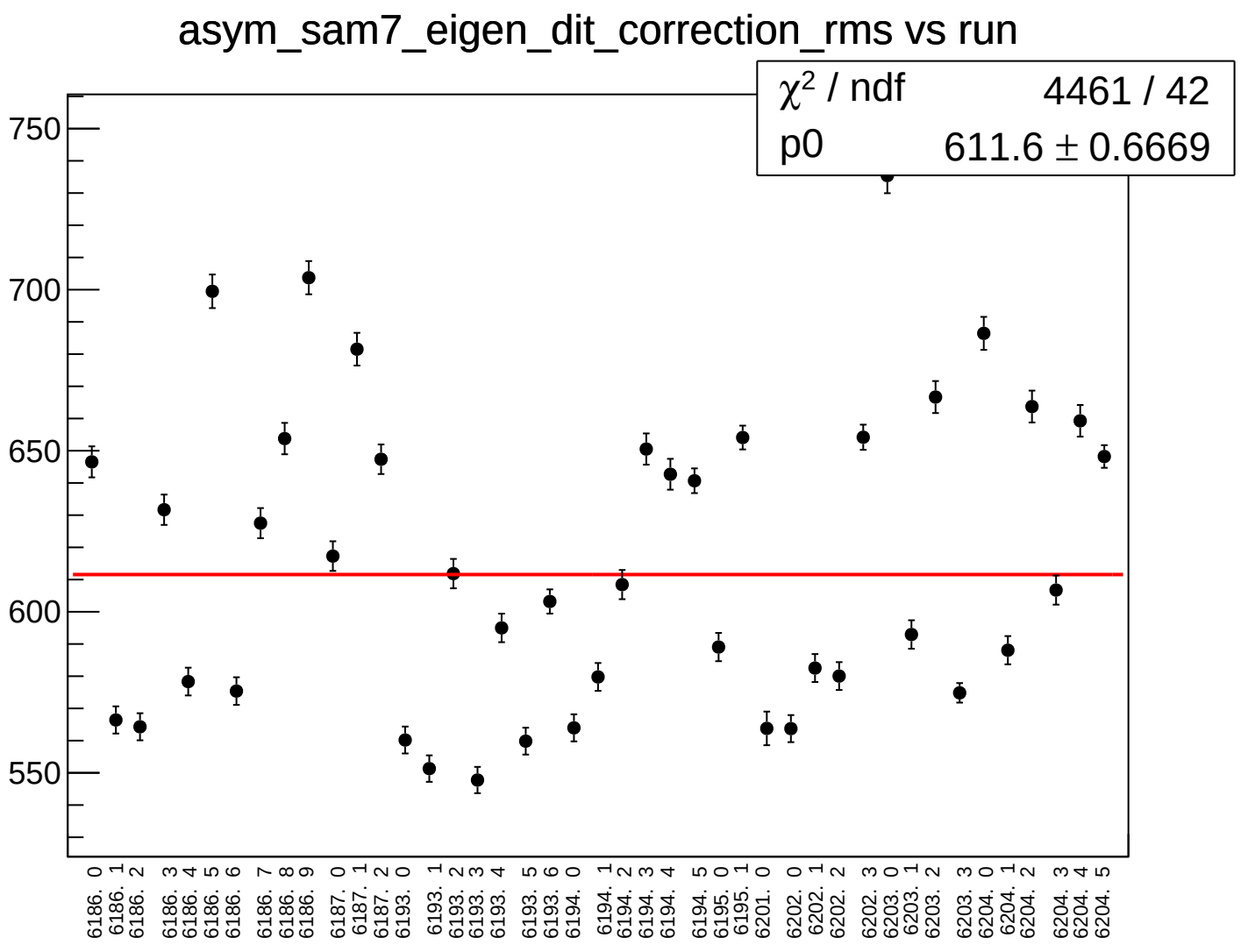

asym_sam7_dit_correction_rms vs run
χ² / ndf 4461 / 42
p0 611.6 ± 0.6669
750
700
650
600
550
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

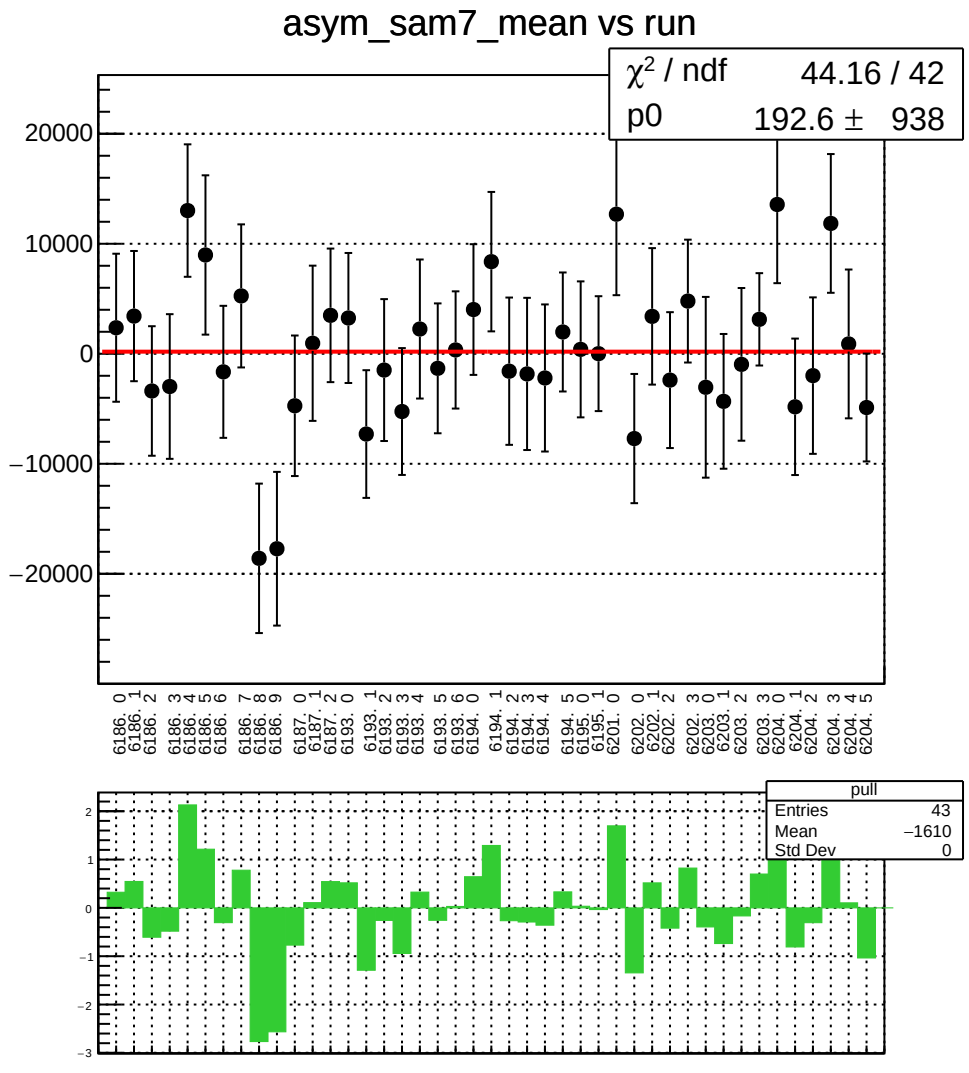

eigen_dit_asym_sam7_mean vs run
χ² / ndf 40.68 / 42
p0 −80.71 ± 107.9
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −96.36
Std Dev 0
2
1
0
−1
−2

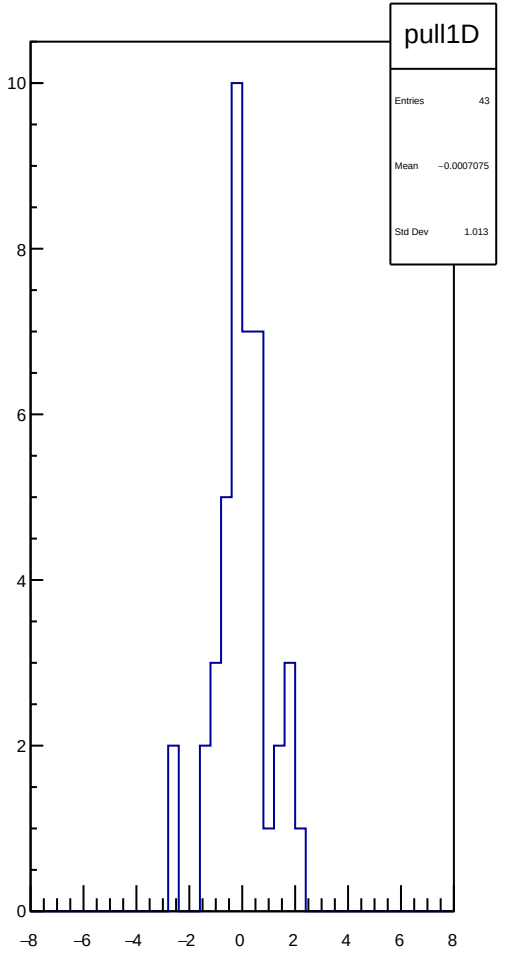

pull1D
Entries 43
Mean 0.01383
Std Dev 0.9726
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

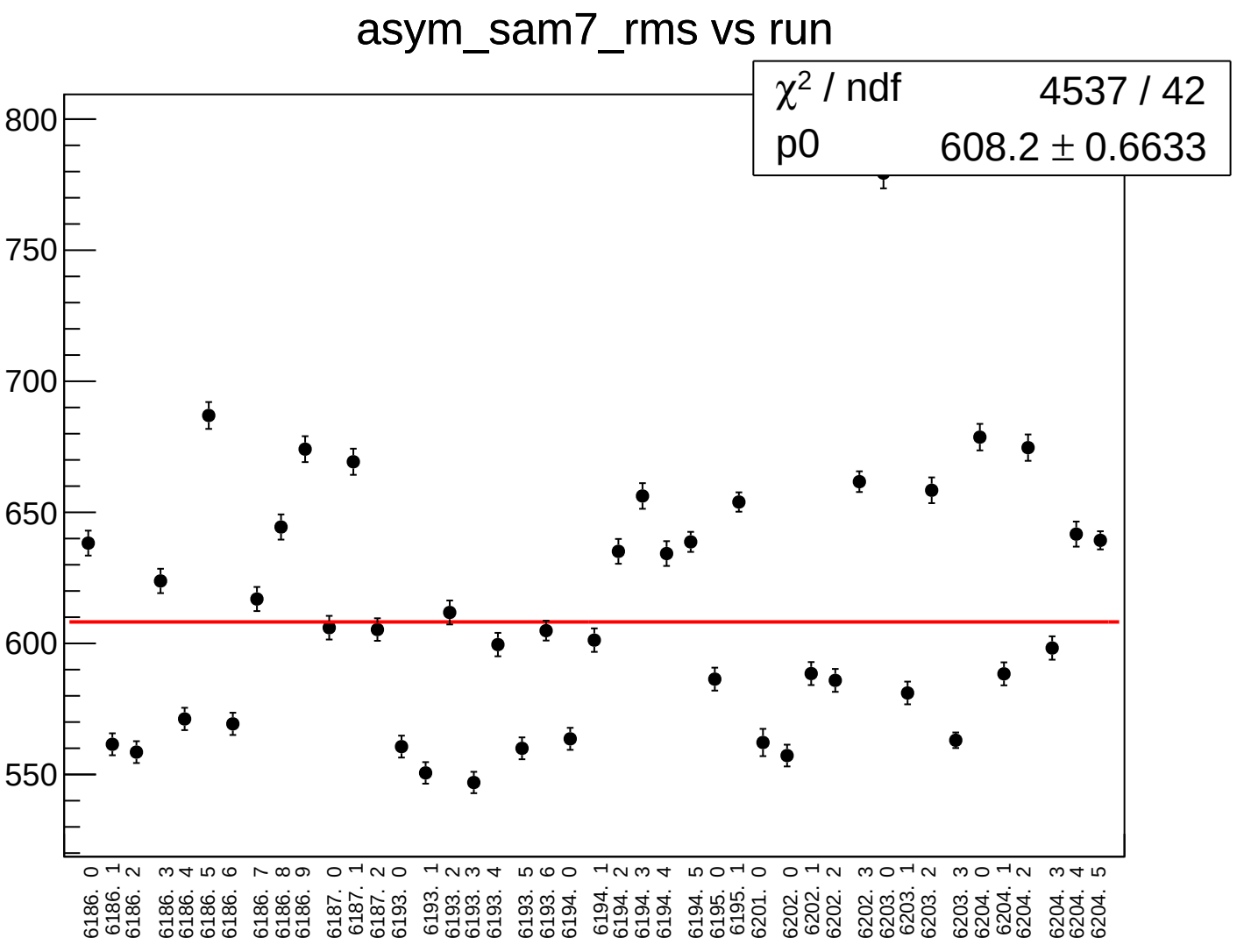

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 9163 / 42
p0 69.74 ± 0.07627
110
100
90
80
70
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

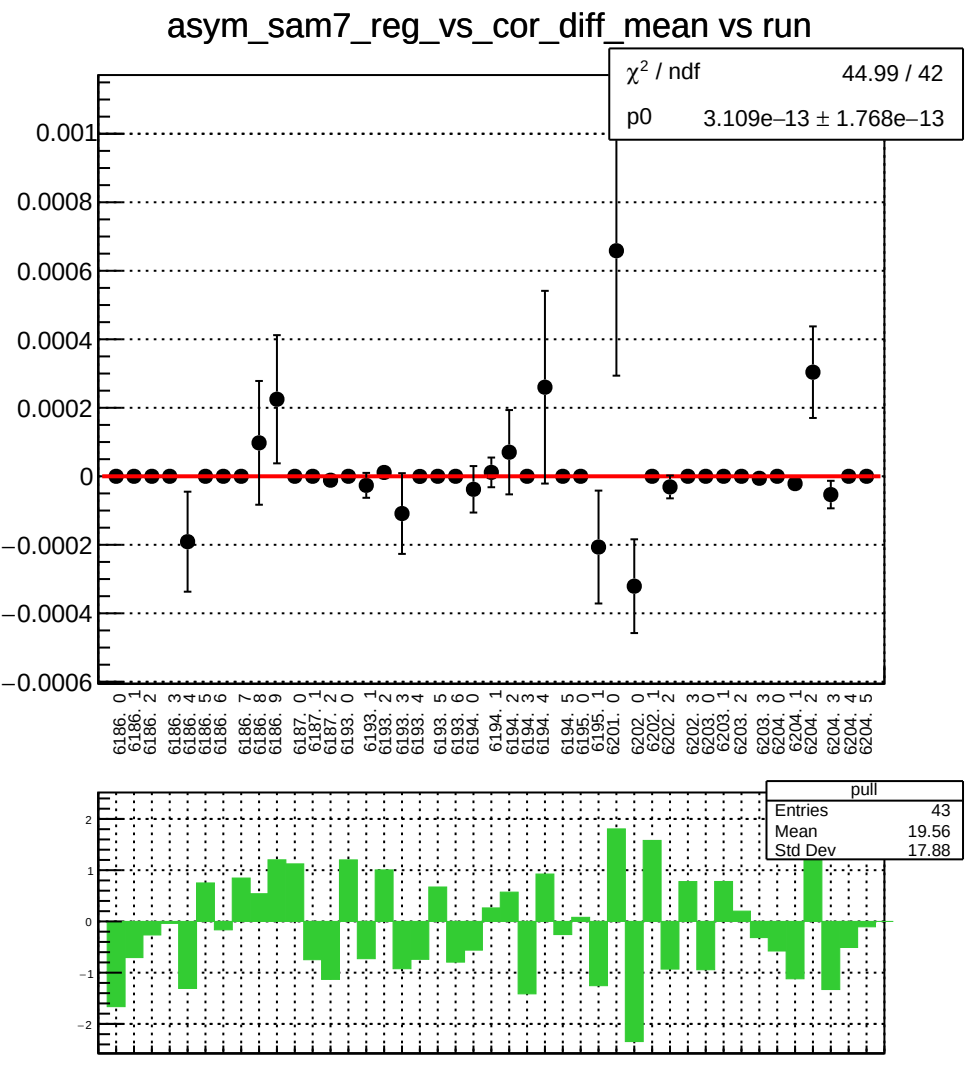

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 45.83 / 42
p0 −274.8 ± 943.2
30000
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −456.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.00272
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

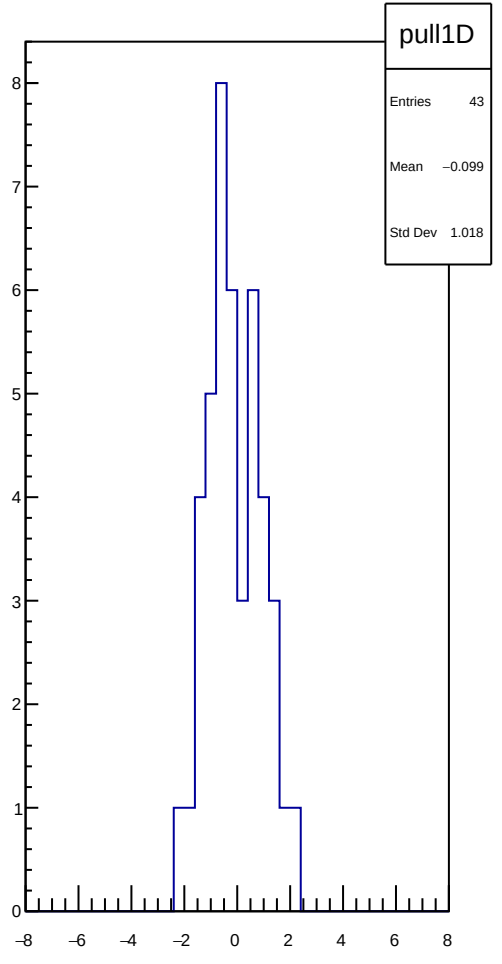

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 4461 / 42
p0 611.6 ± 0.6669
750
700
650
600
550
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

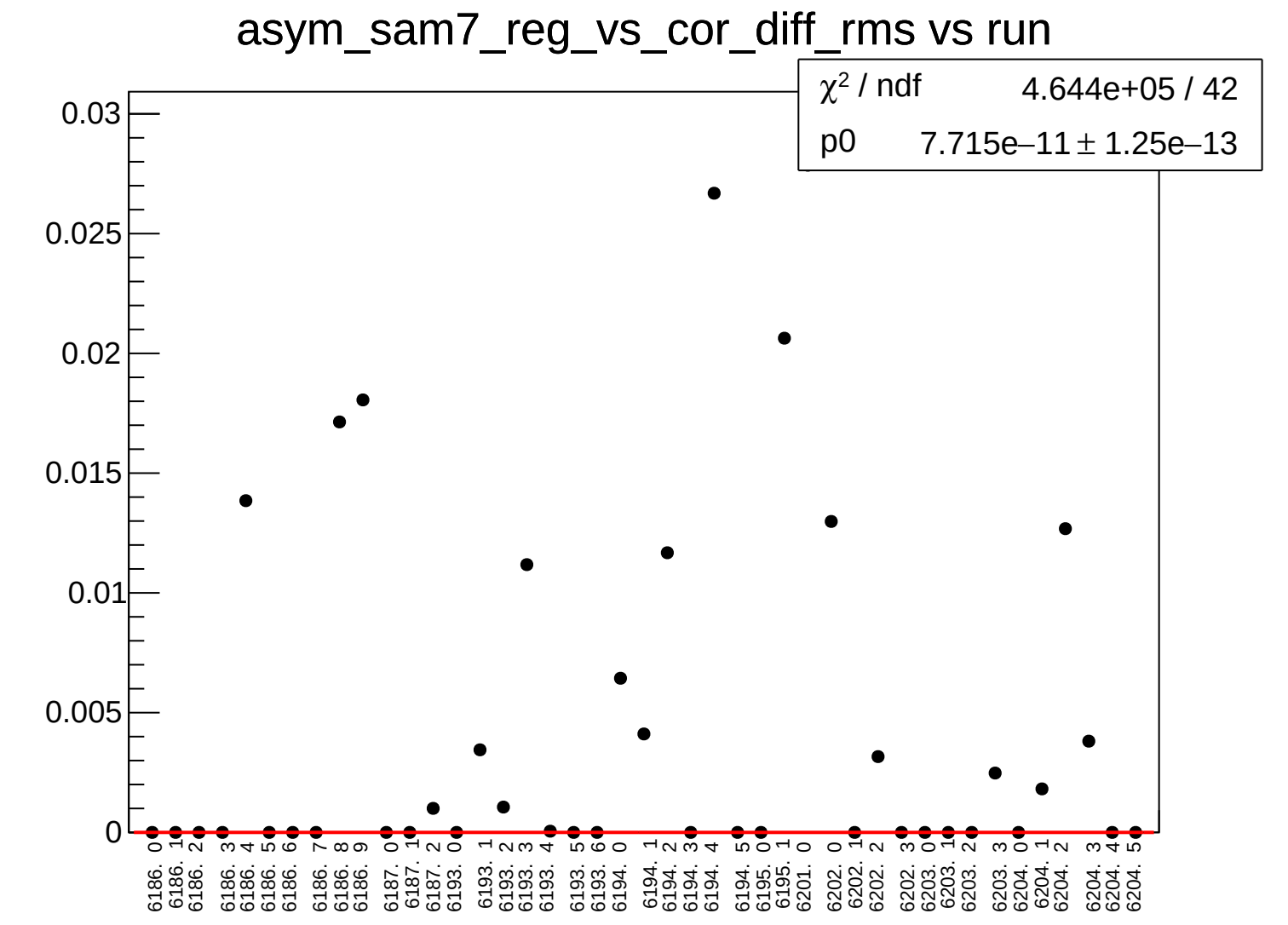

asym_sam7_mean vs run
χ² / ndf 44.16 / 42
p0 192.6 ± 938
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1610
Std Dev 0
2
1
0
−1
−2
−3

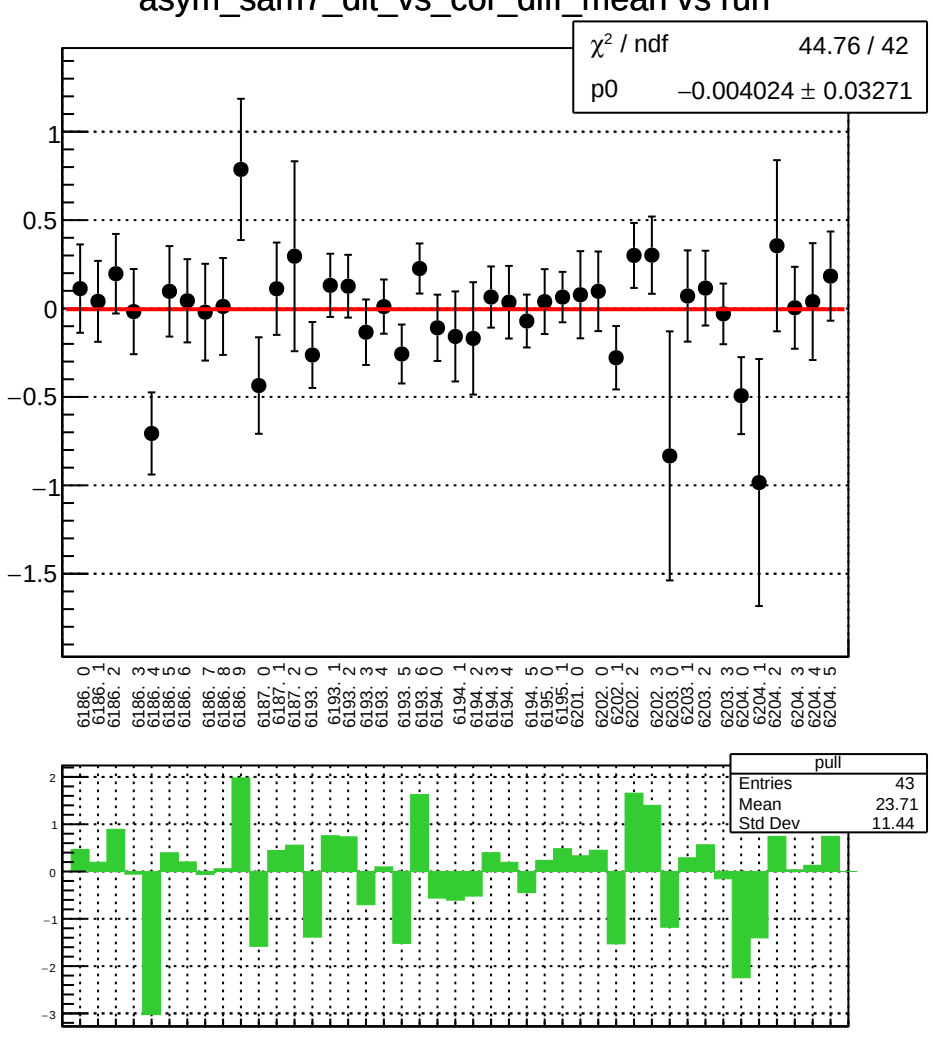

pull1D
Entries 43
Mean −0.0007075
Std Dev 1.013
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

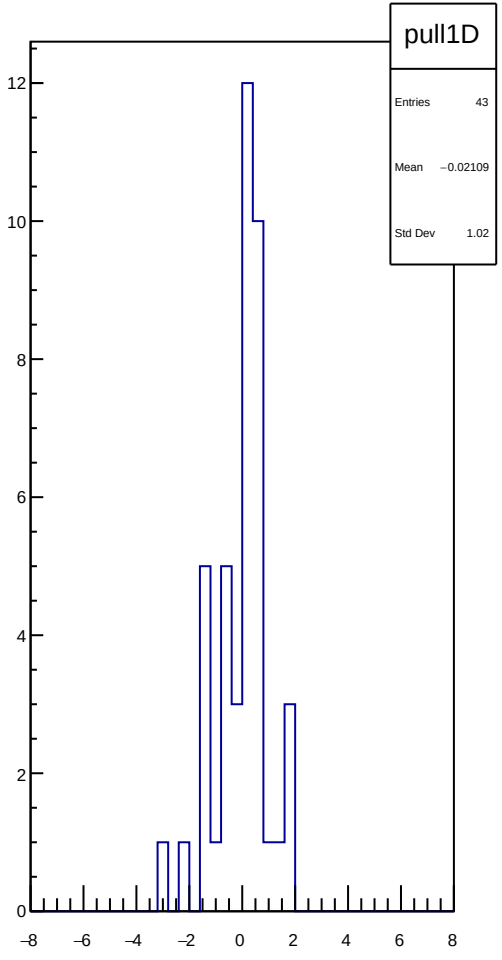

asym_sam7_rms vs run
χ² / ndf 4537 / 42
p0 608.2 ± 0.6633
800
750
700
650
600
550
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

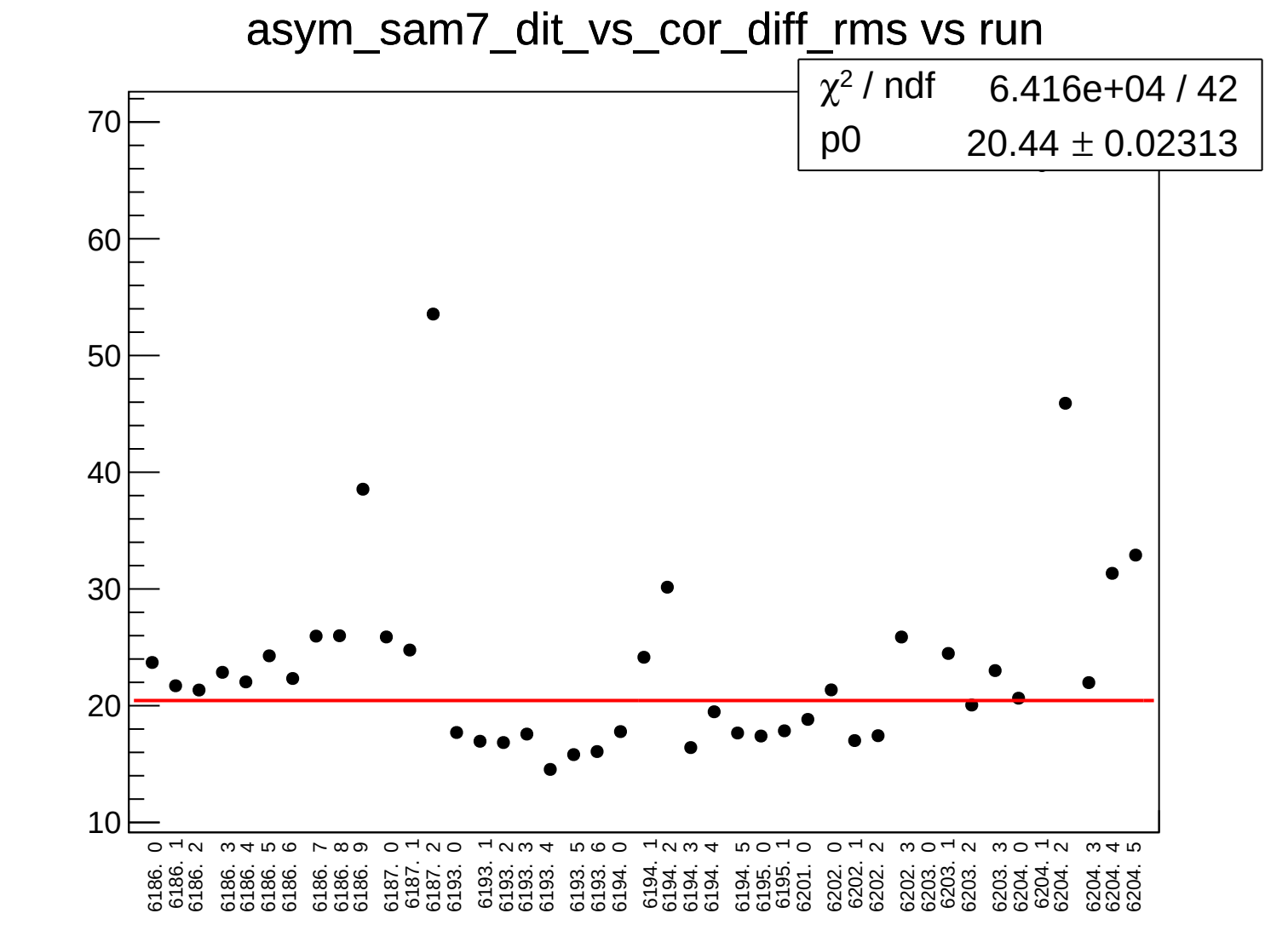

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 44.99 / 42
p0 3.109e−13 ± 1.768e−13
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 19.56
Std Dev 17.88
2
1
0
−1
−2

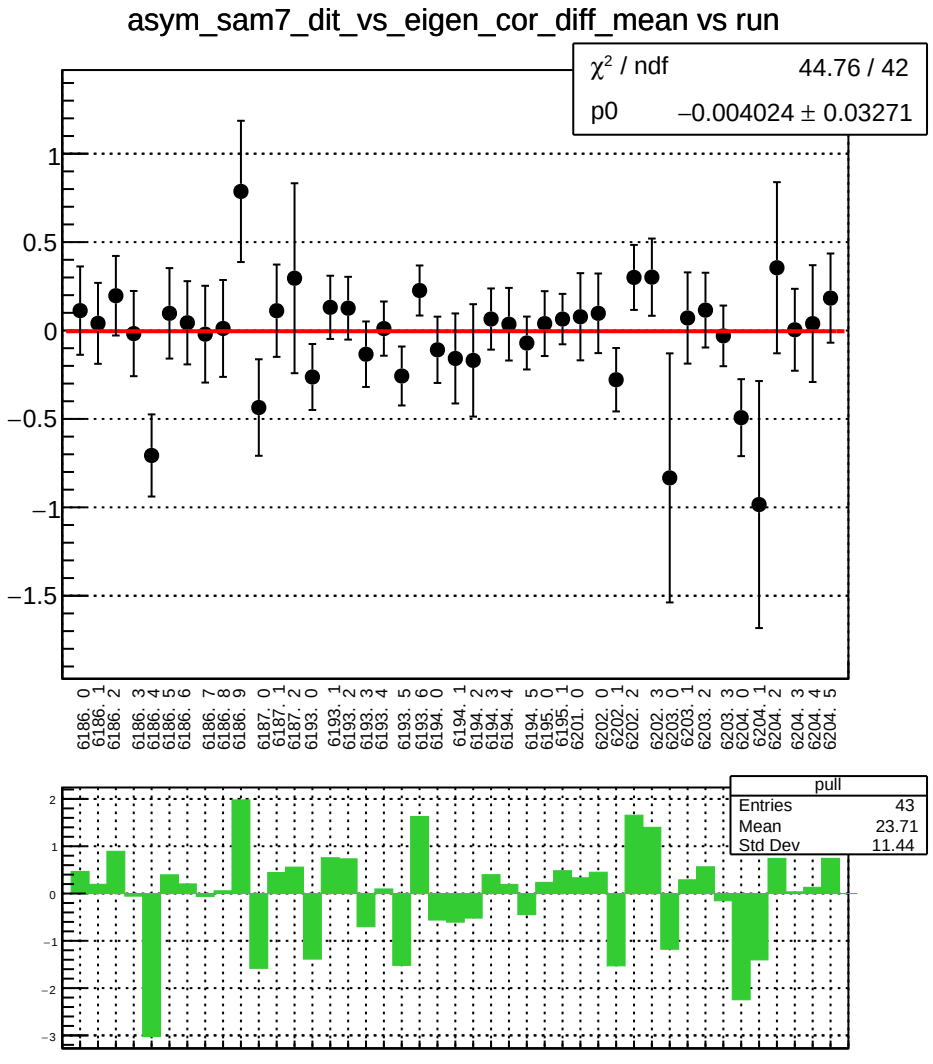

pull1D
Entries 43
Mean −0.099
Std Dev 1.018
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

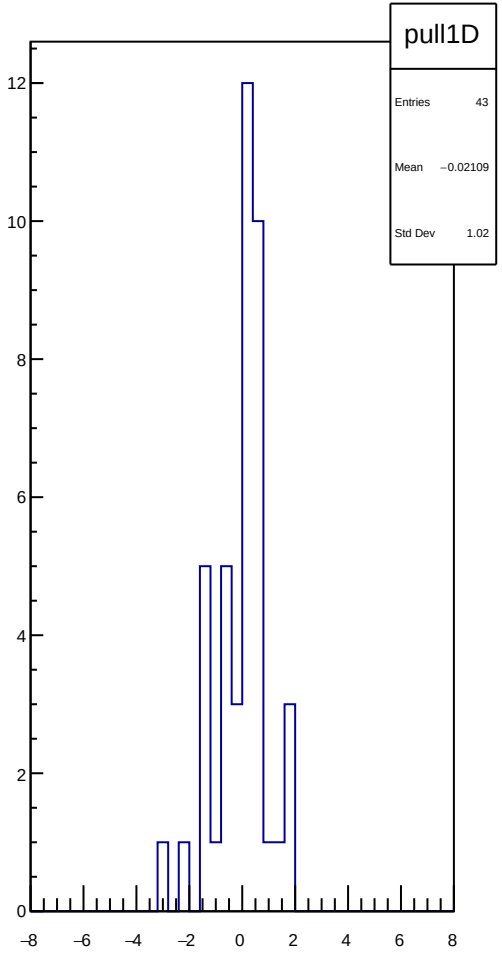

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 4.644e+05 / 42
p0 7.715e−11 ± 1.25e−13
0.03
0.025
0.02
0.015
0.01
0.005
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

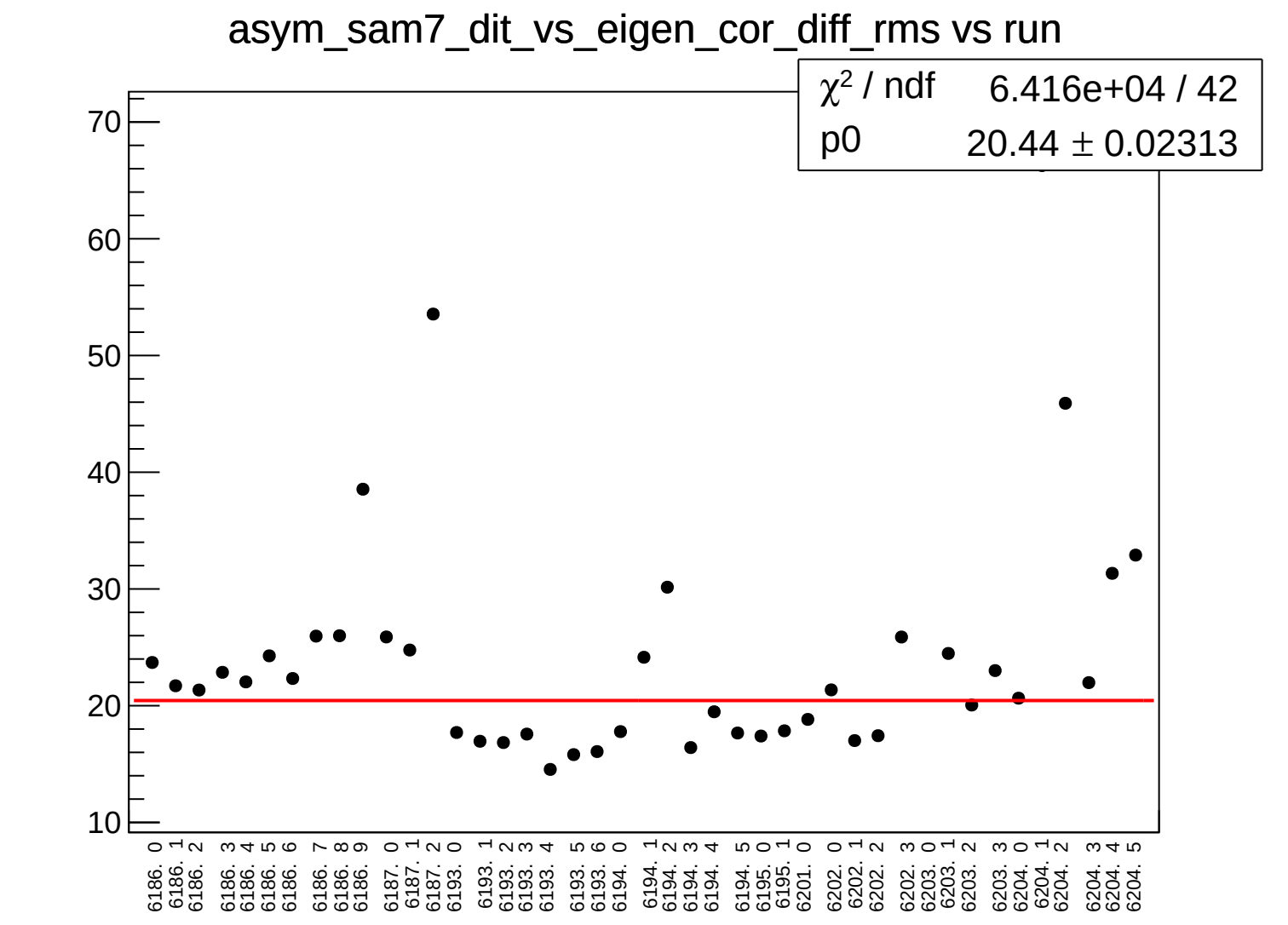

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 44.76 / 42
p0 −0.004024 ± 0.03271
pull
Entries 43
Mean 23.71
Std Dev 11.44

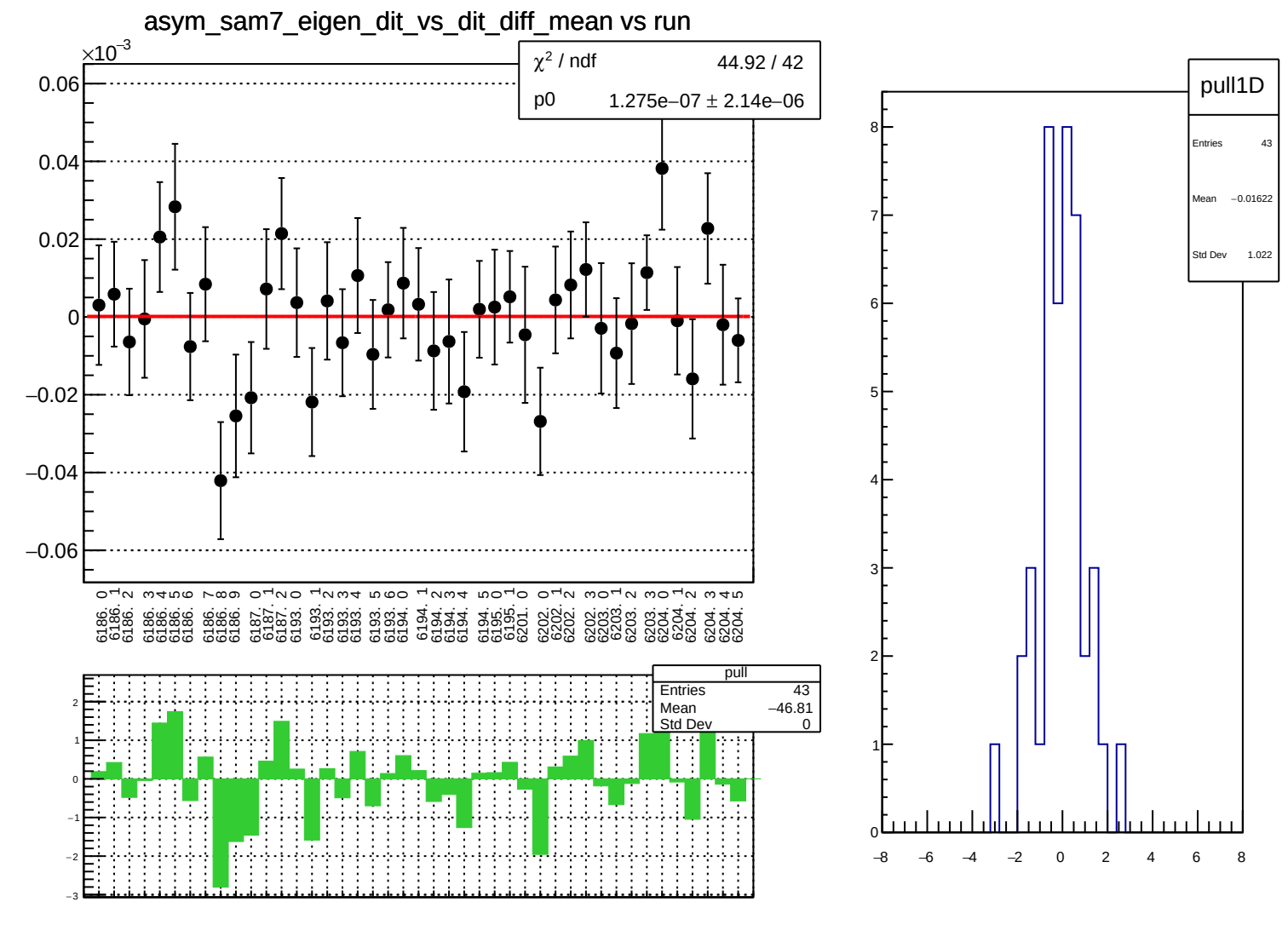

pull1D
Entries 43
Mean −0.02109
Std Dev 1.02

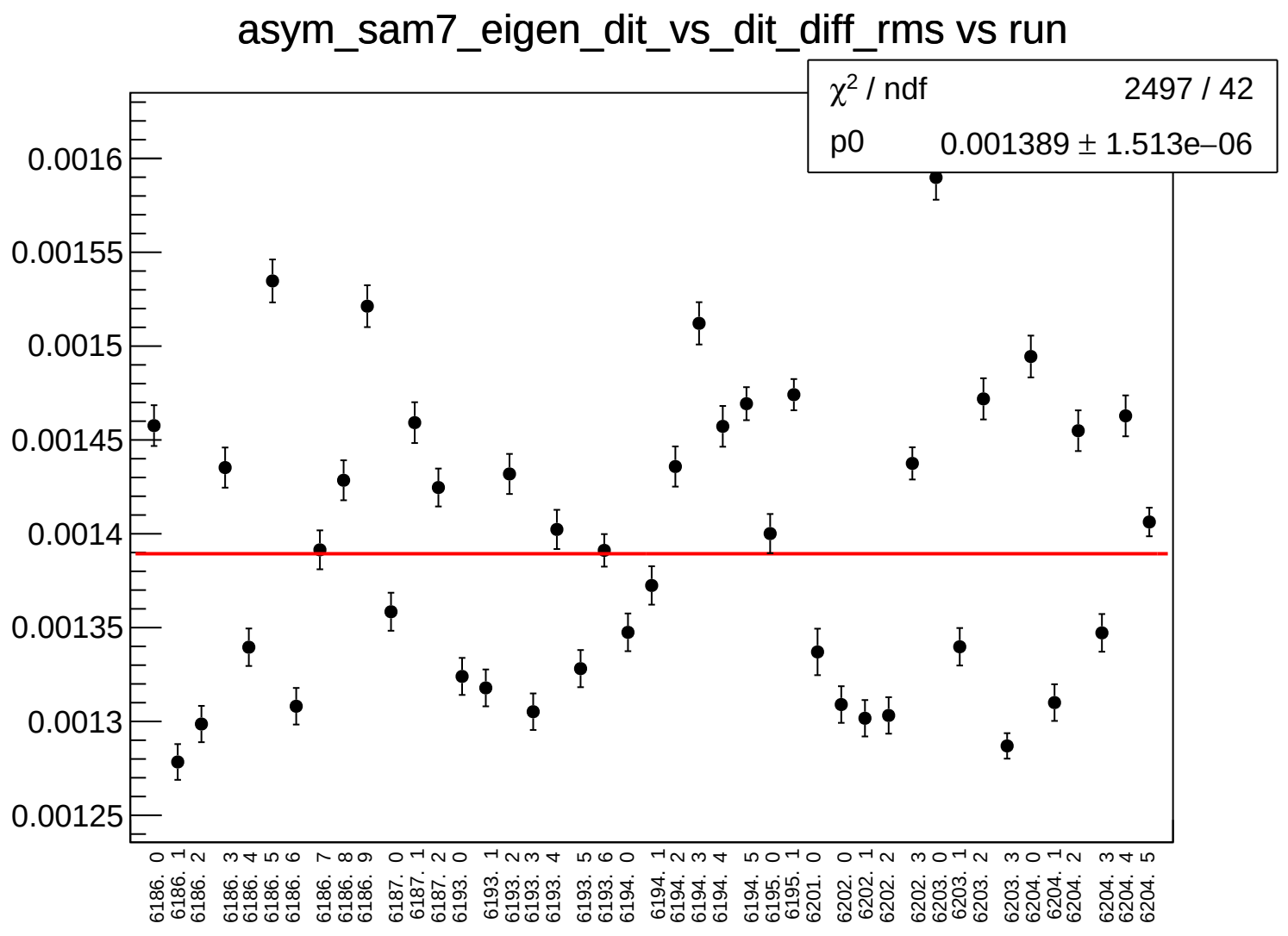

asym_sam7_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.416e+04 / 42
p0 20.44 ± 0.02313
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

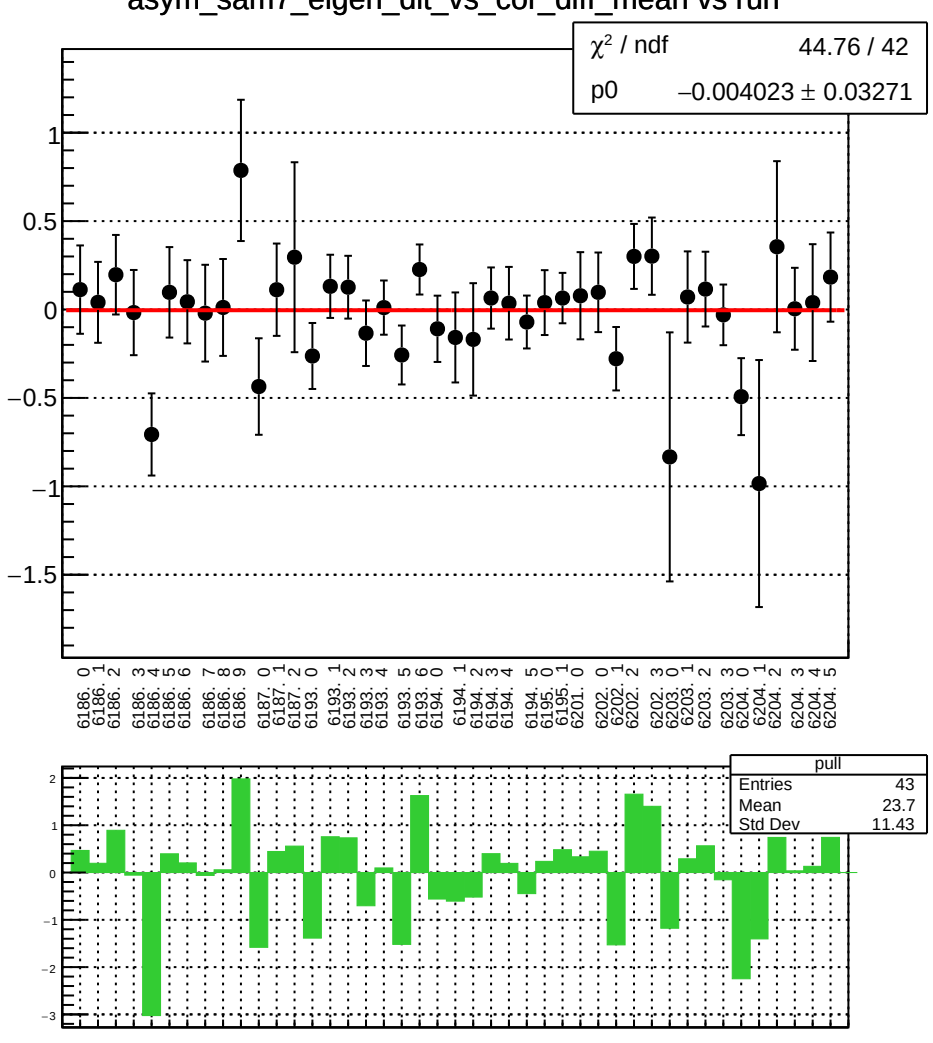

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.76 / 42
p0 −0.004024 ± 0.03271
pull
Entries 43
Mean 23.71
Std Dev 11.44

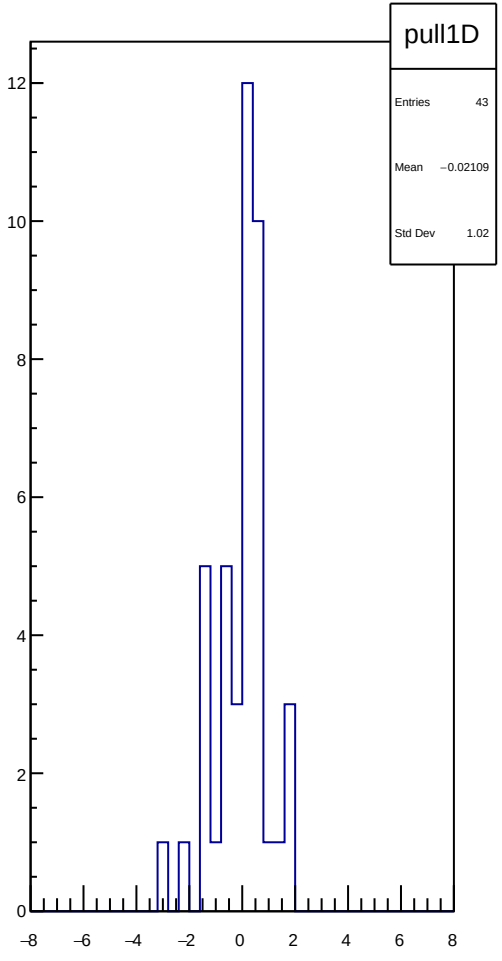

pull1D
Entries 43
Mean −0.02109
Std Dev 1.02

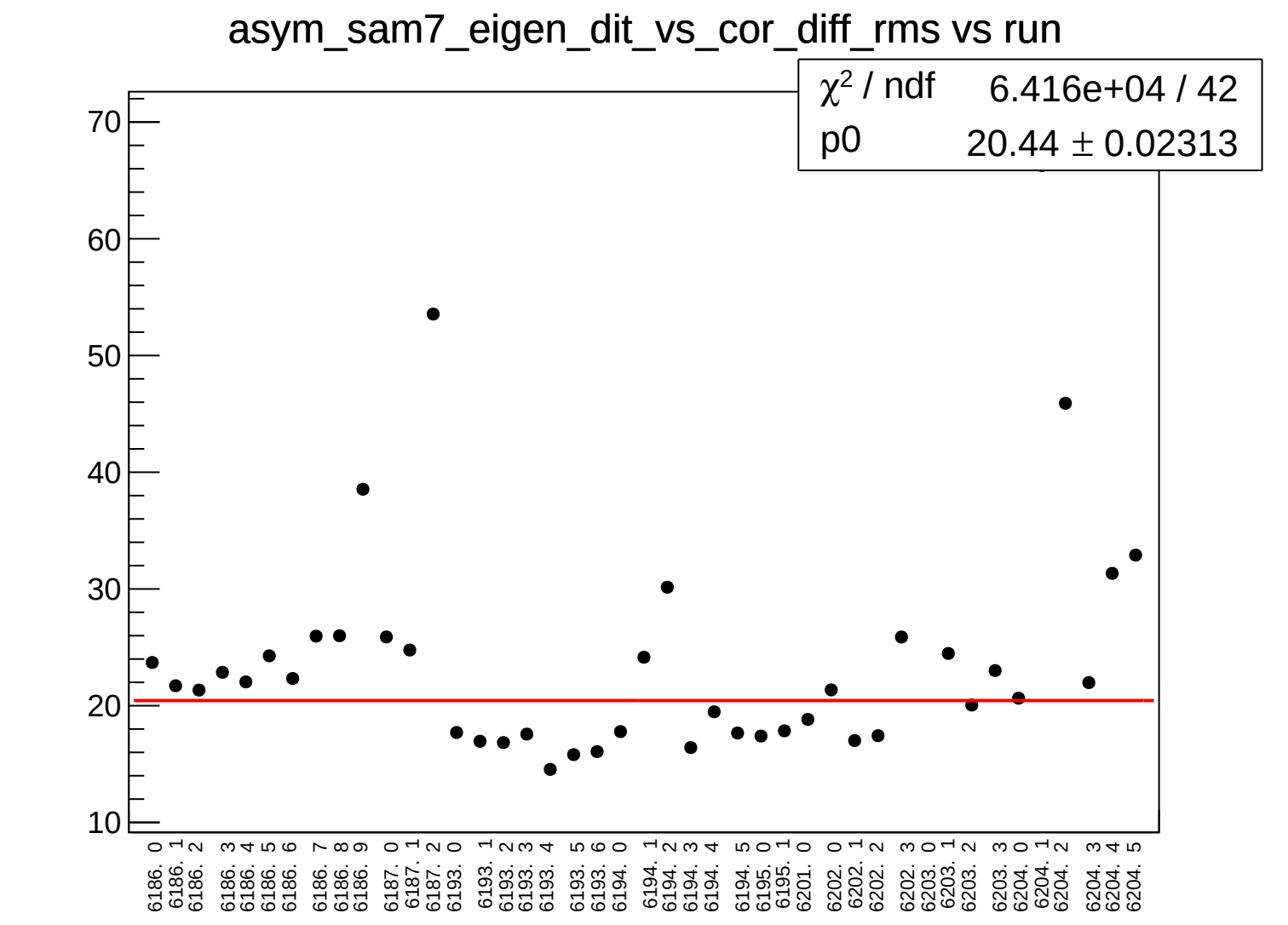

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.416e+04 / 42
p0 20.44 ± 0.02313
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

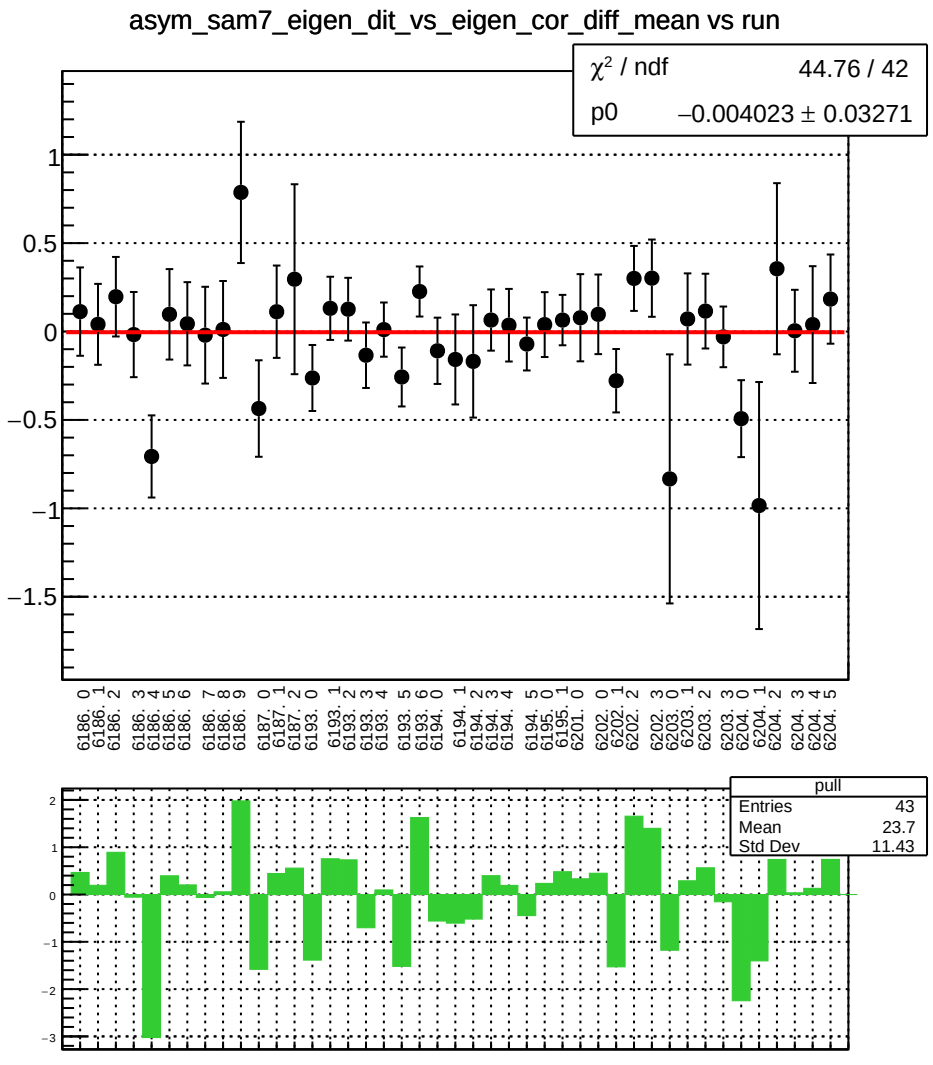

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 44.92 / 42
p0 1.275e−07 ± 2.14e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −46.81
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01622
Std Dev 1.022
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

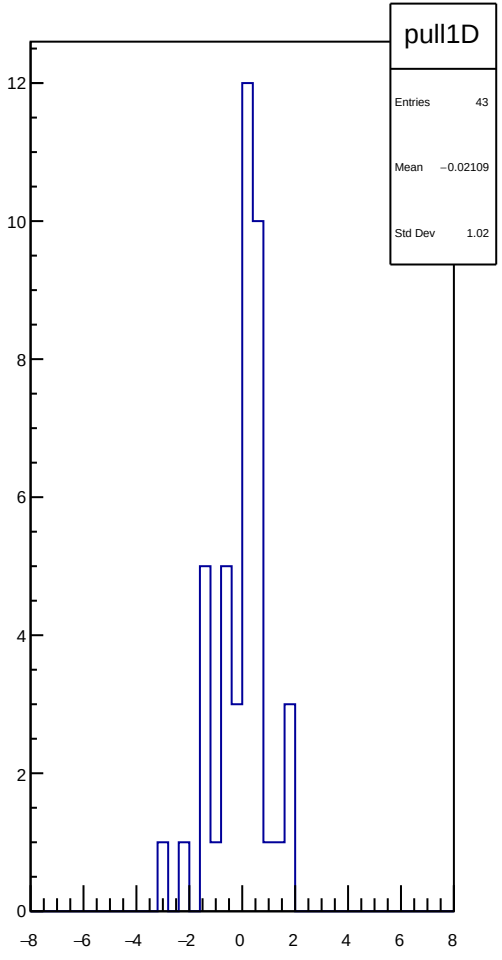

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2497 / 42
p0 0.001389 ± 1.513e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

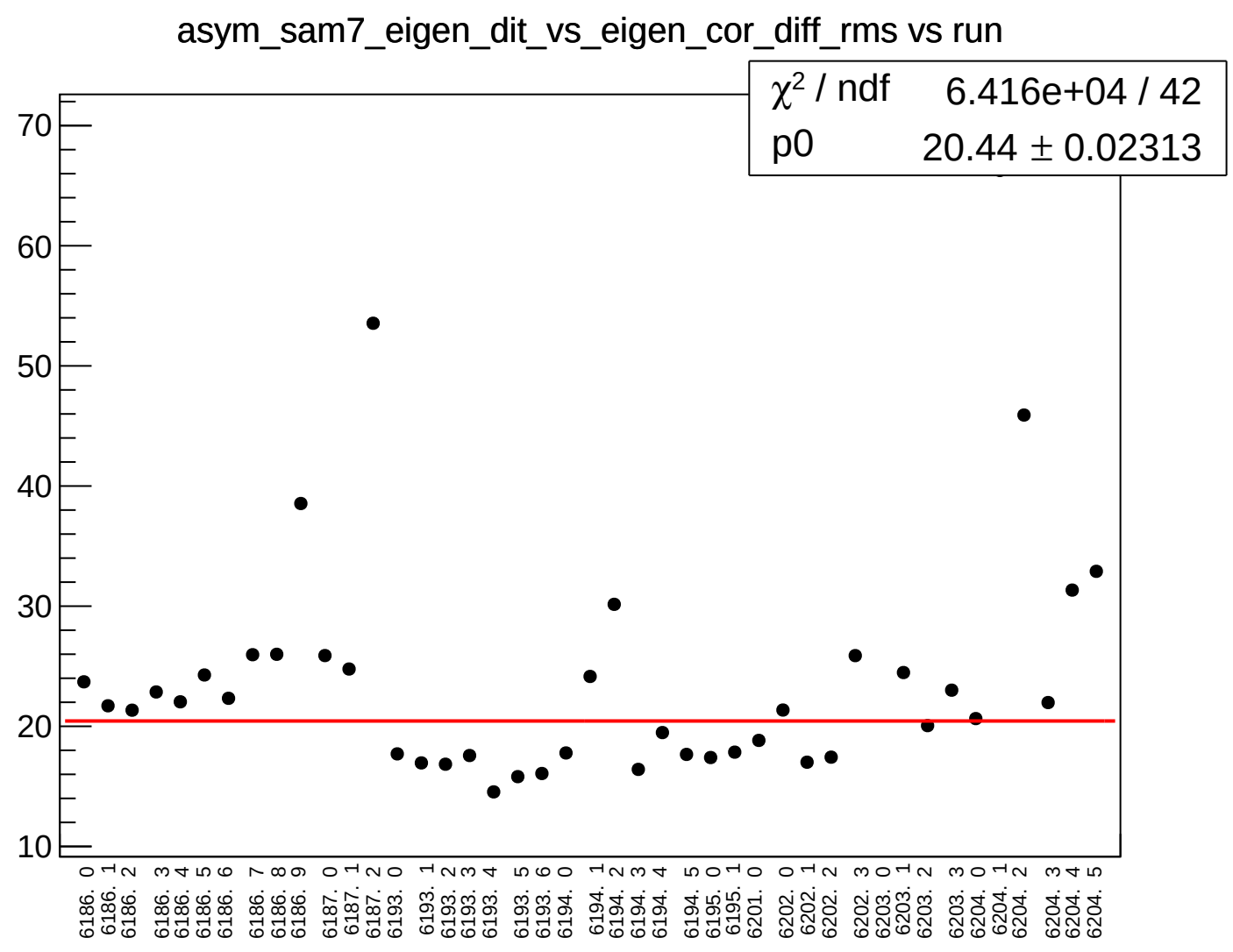

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.76 / 42
p0 −0.004023 ± 0.03271
pull
Entries 43
Mean 23.7
Std Dev 11.43

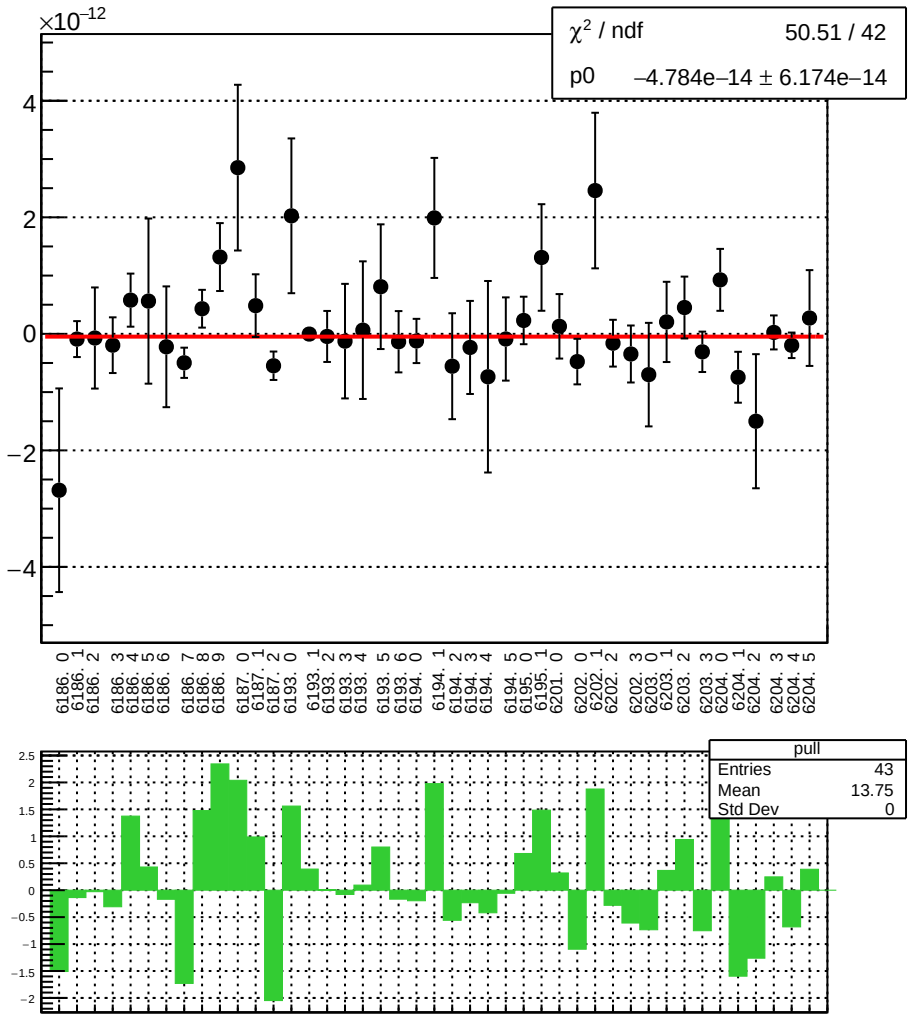

pull1D
Entries 43
Mean −0.02109
Std Dev 1.02

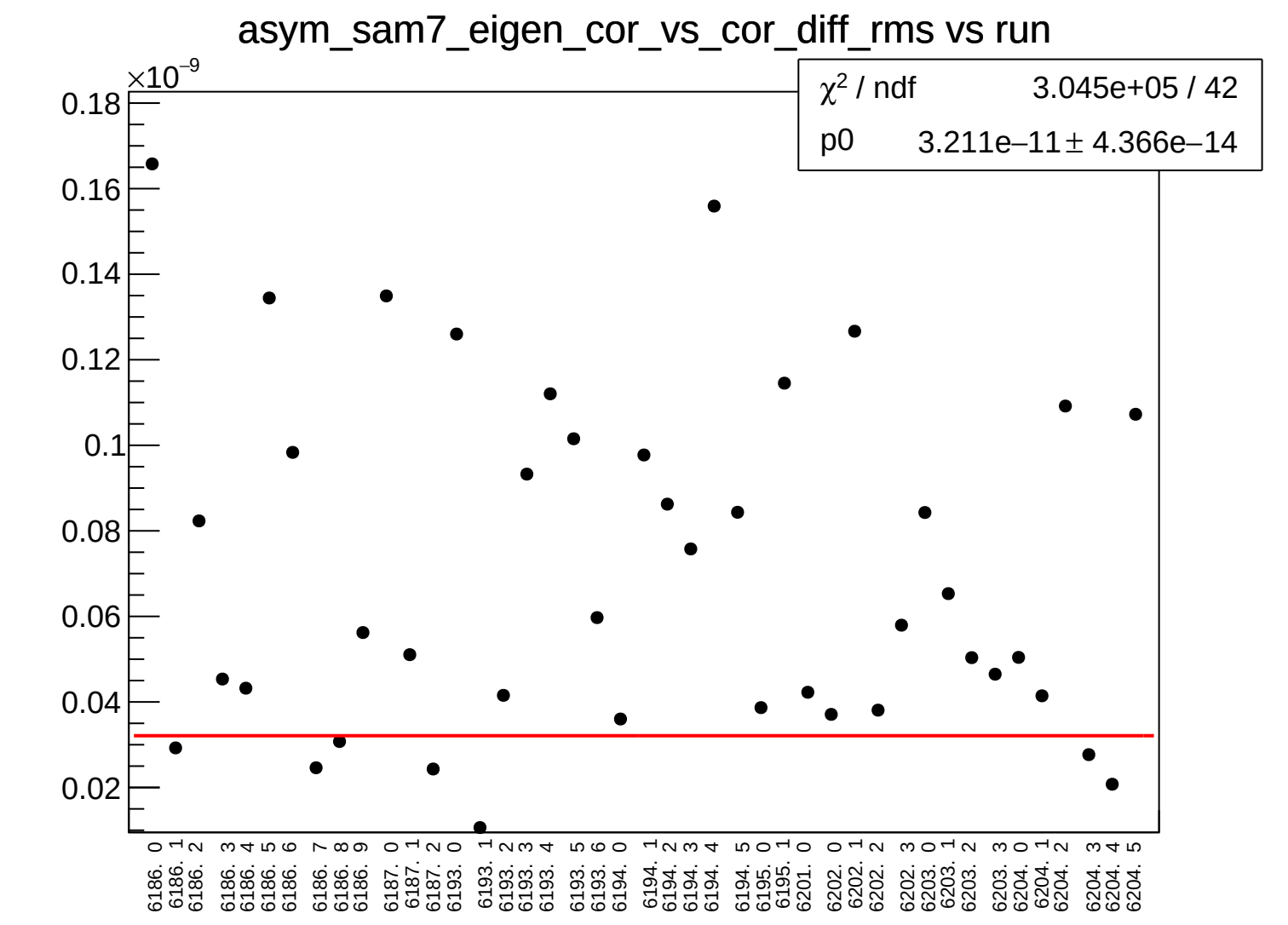

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.416e+04 / 42
p0 20.44 ± 0.02313
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

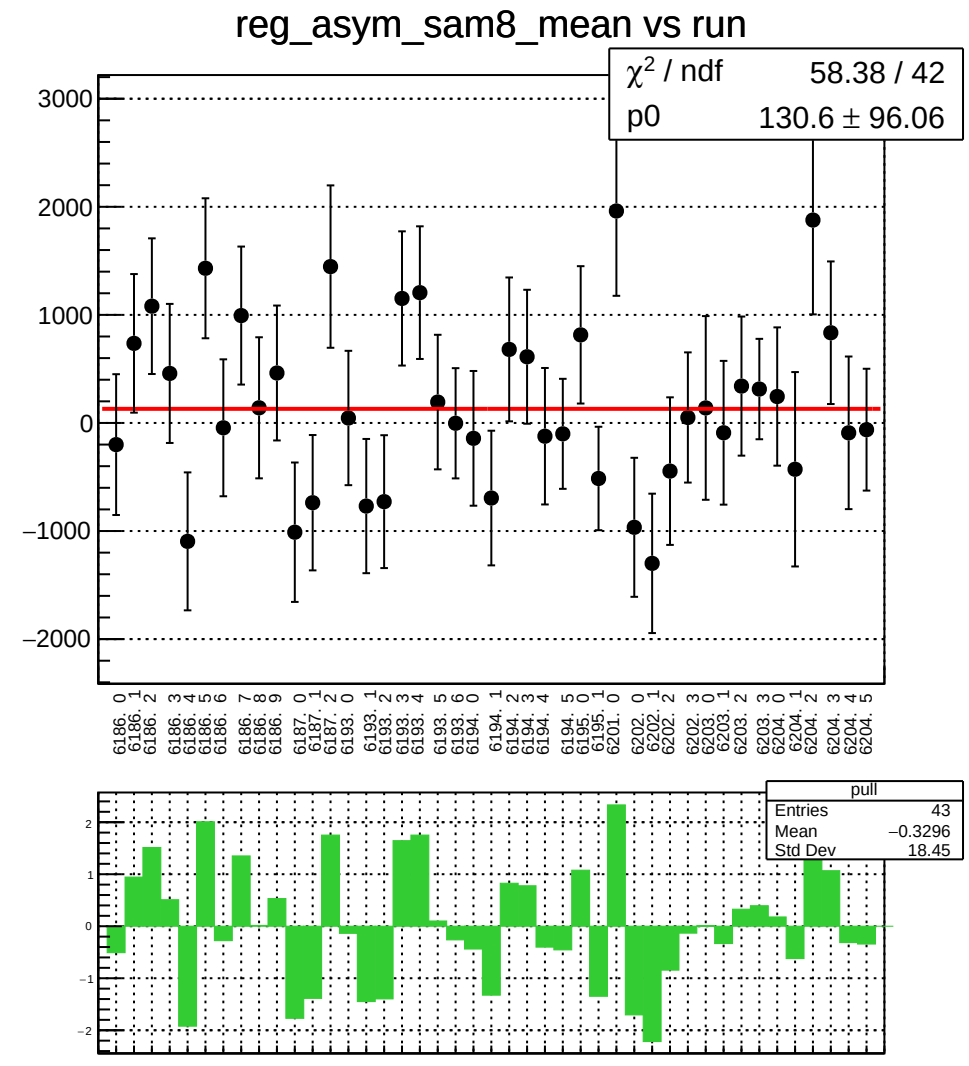

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.76 / 42
p0 −0.004023 ± 0.03271
pull
Entries 43
Mean 23.7
Std Dev 11.43

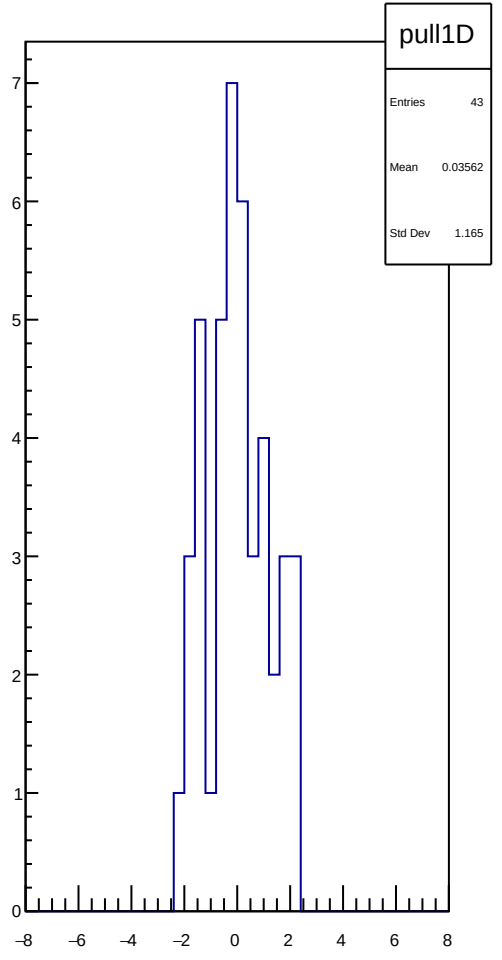

pull1D
Entries 43
Mean −0.02109
Std Dev 1.02

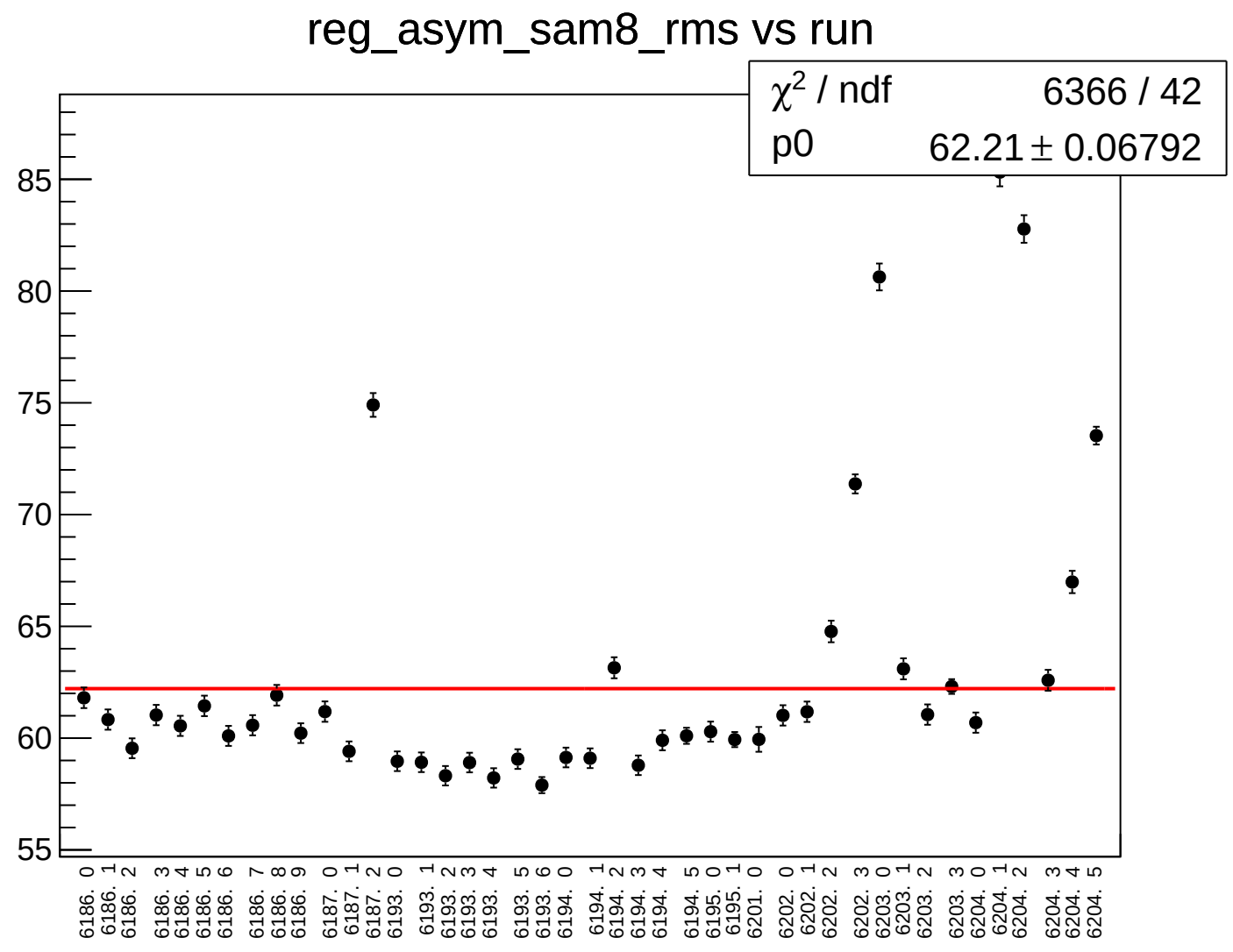

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.416e+04 / 42
p0 20.44 ± 0.02313
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

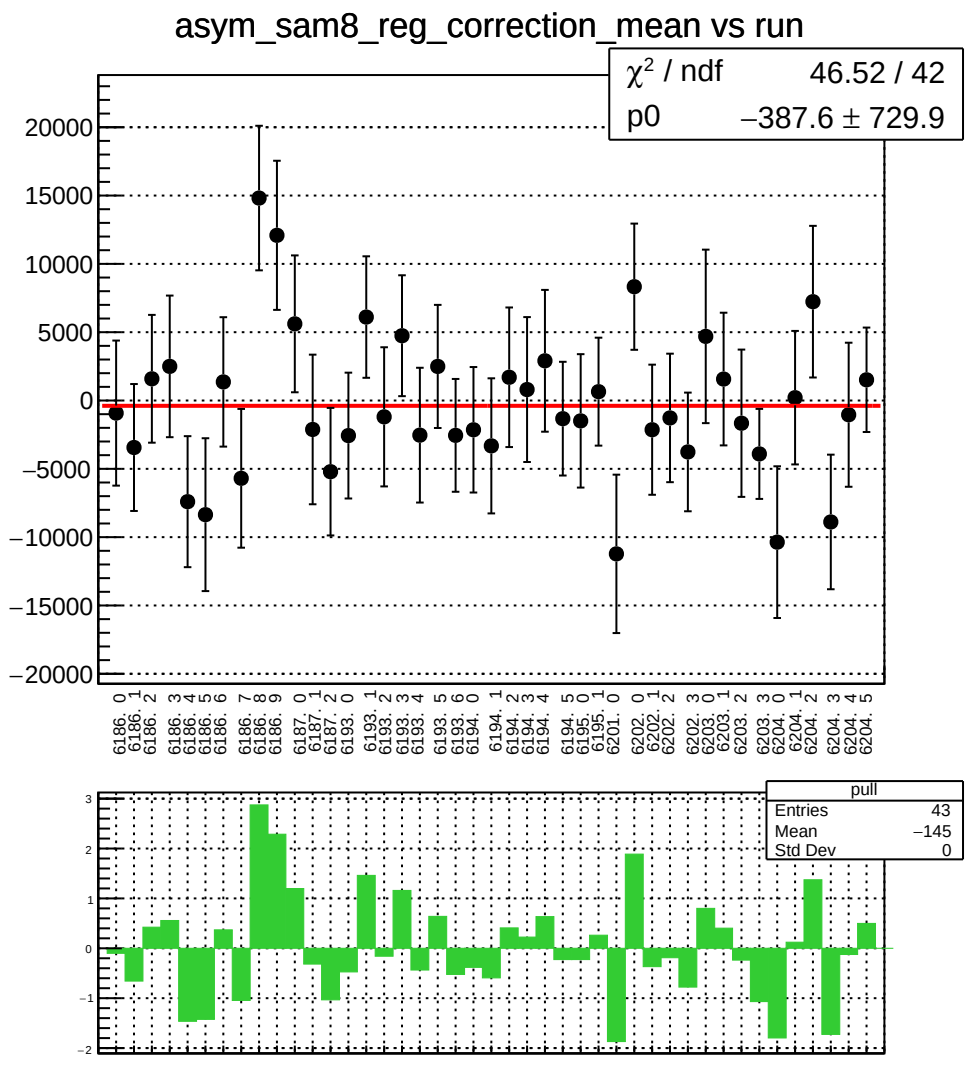

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 50.51 / 42
p0 −4.784e−14 ± 6.174e−14
4
2
0
−2
−4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 13.75
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.1624
Std Dev 1.072
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

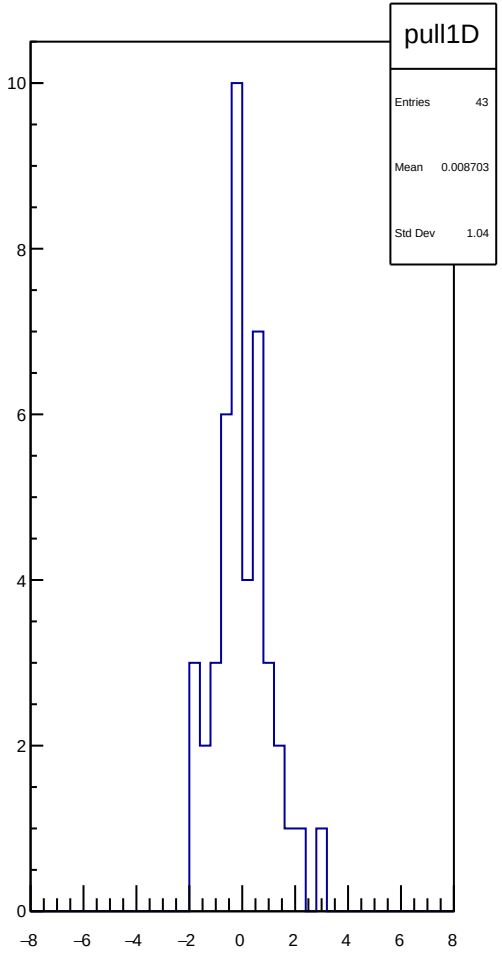

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.045e+05 / 42
p0 3.211e−11 ± 4.366e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

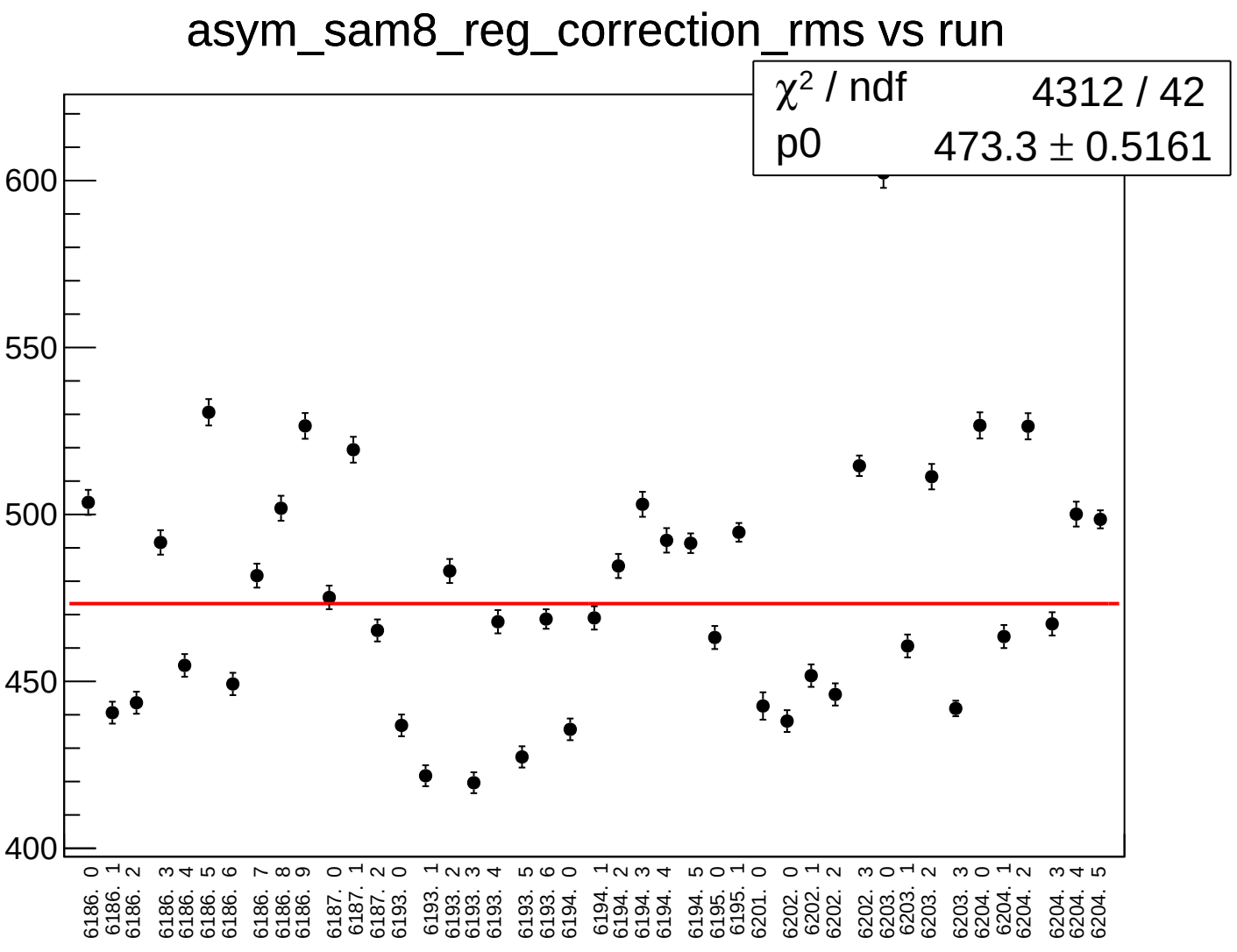

reg_asym_sam8_mean vs run
χ² / ndf 58.38 / 42
p0 130.6 ± 96.06
3000
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −0.3296
Std Dev 18.45
2
1
0
−1
−2

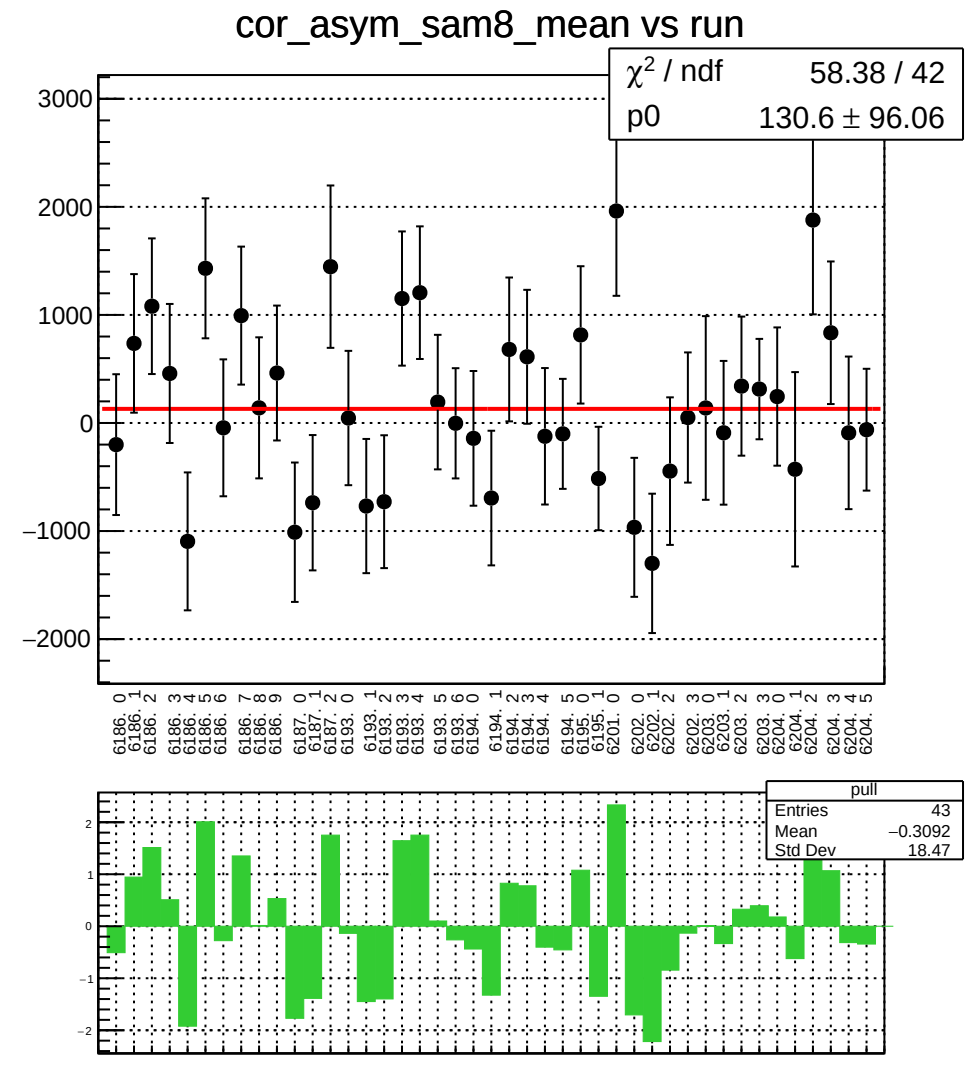

pull1D
Entries 43
Mean 0.03562
Std Dev 1.165
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

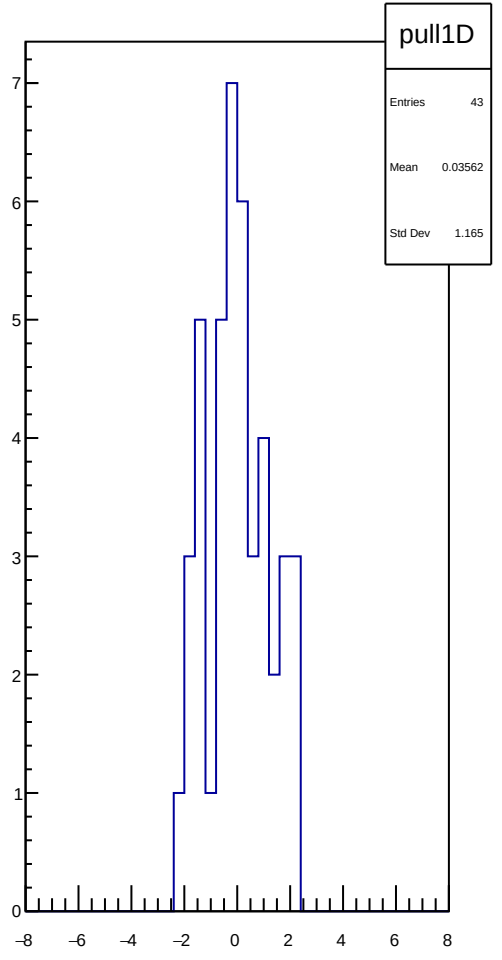

reg_asym_sam8_rms vs run
χ² / ndf 6366 / 42
p0 62.21 ± 0.06792
85
80
75
70
65
60
55
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

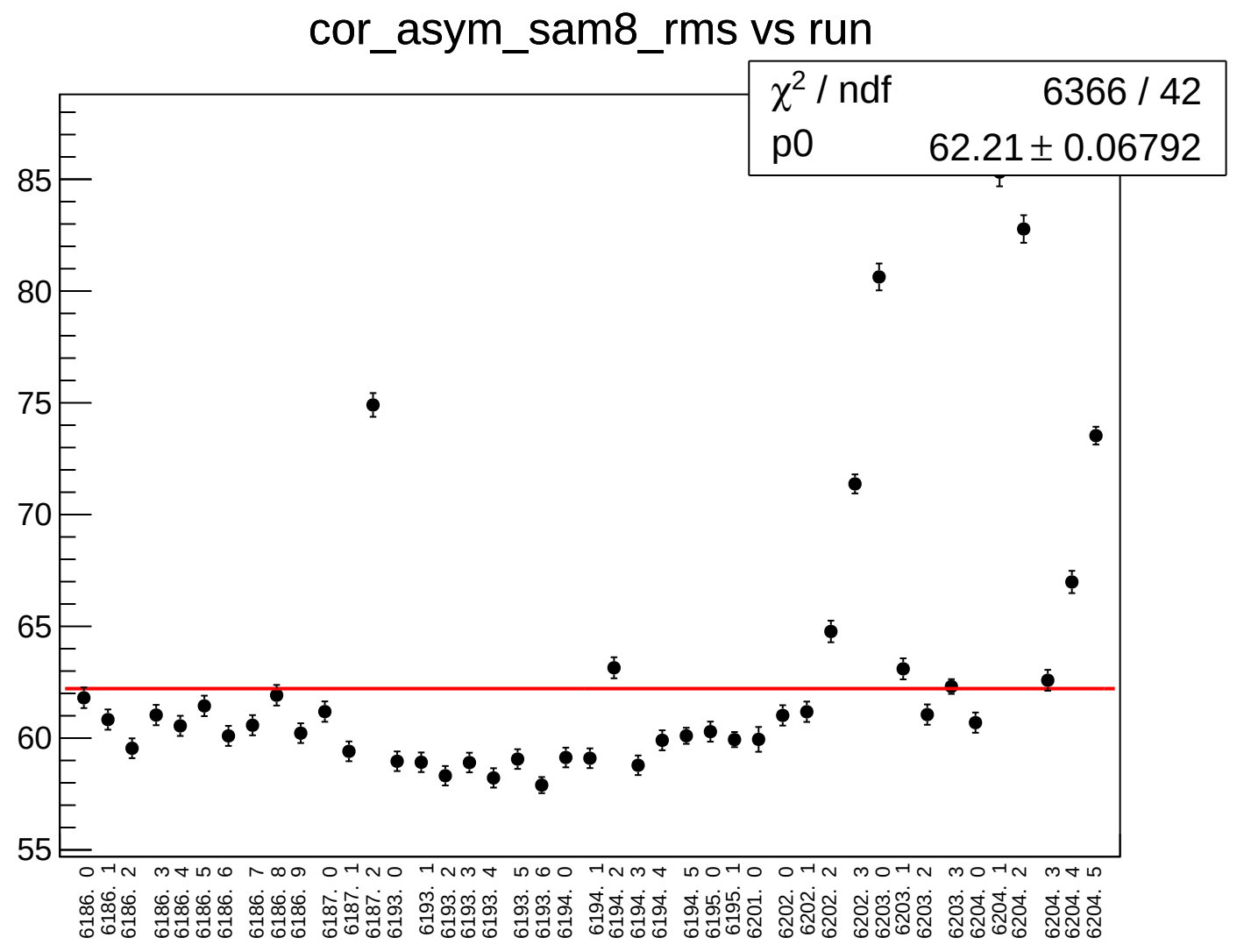

asym_sam8_reg_correction_mean vs run
χ² / ndf 46.52 / 42
p0 −387.6 ± 729.9
pull
Entries 43
Mean −145
Std Dev 0

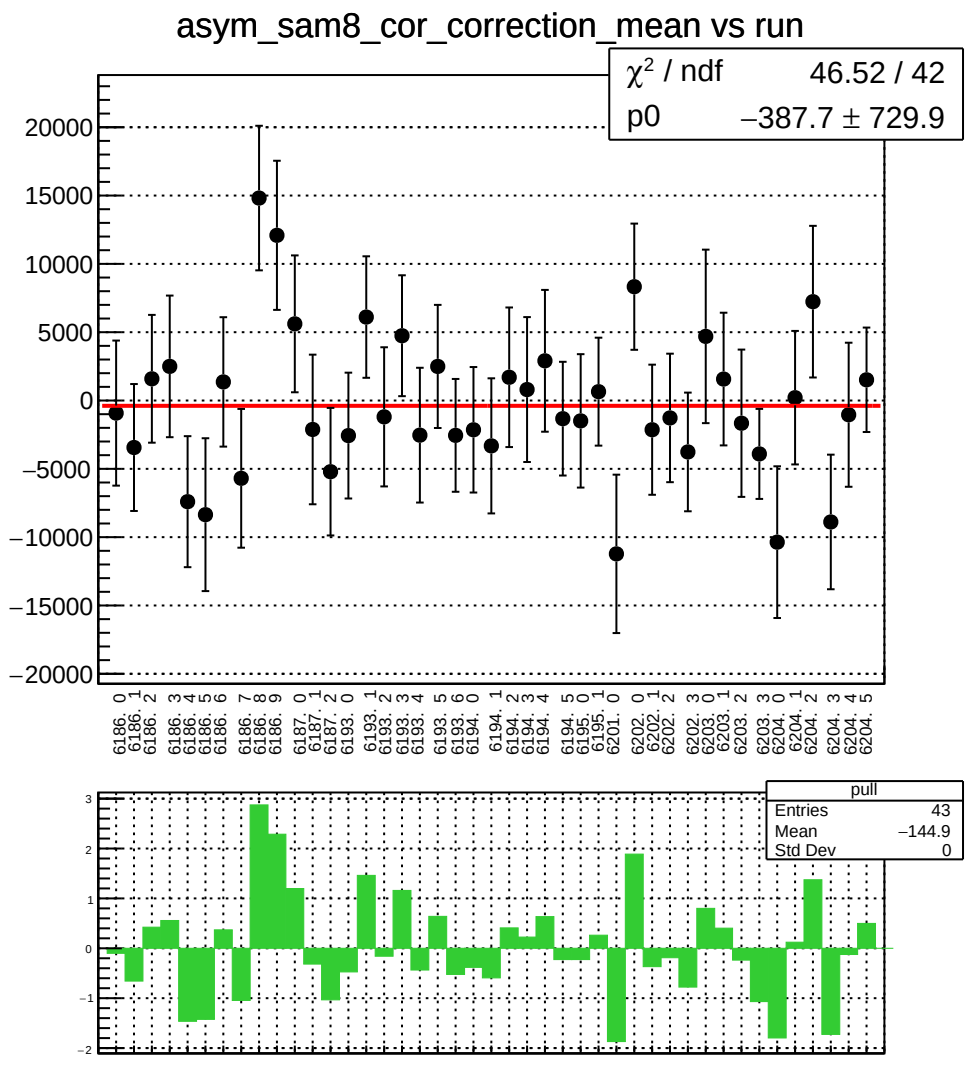

pull1D
Entries 43
Mean 0.008703
Std Dev 1.04

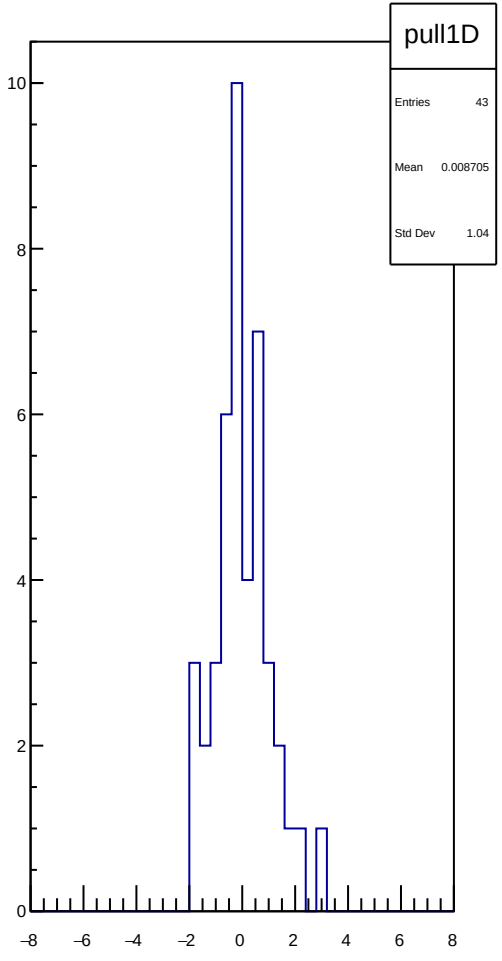

asym_sam8_reg_correction_rms vs run
χ² / ndf 4312 / 42
p0 473.3 ± 0.5161
600
550
500
450
400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

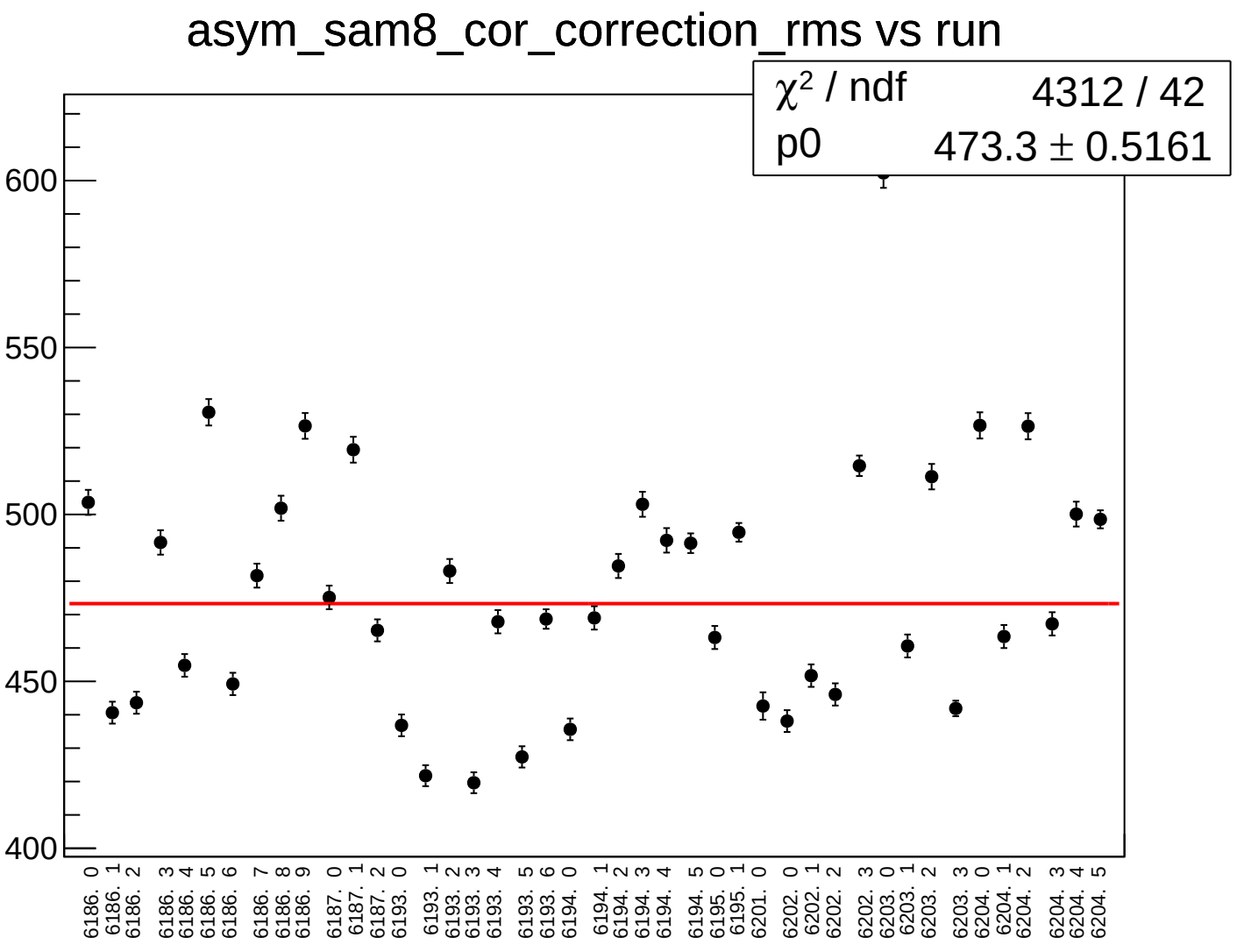

cor_asym_sam8_mean vs run
χ² / ndf 58.38 / 42
p0 130.6 ± 96.06
3000
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −0.3092
Std Dev 18.47
2
1
0
−1
−2

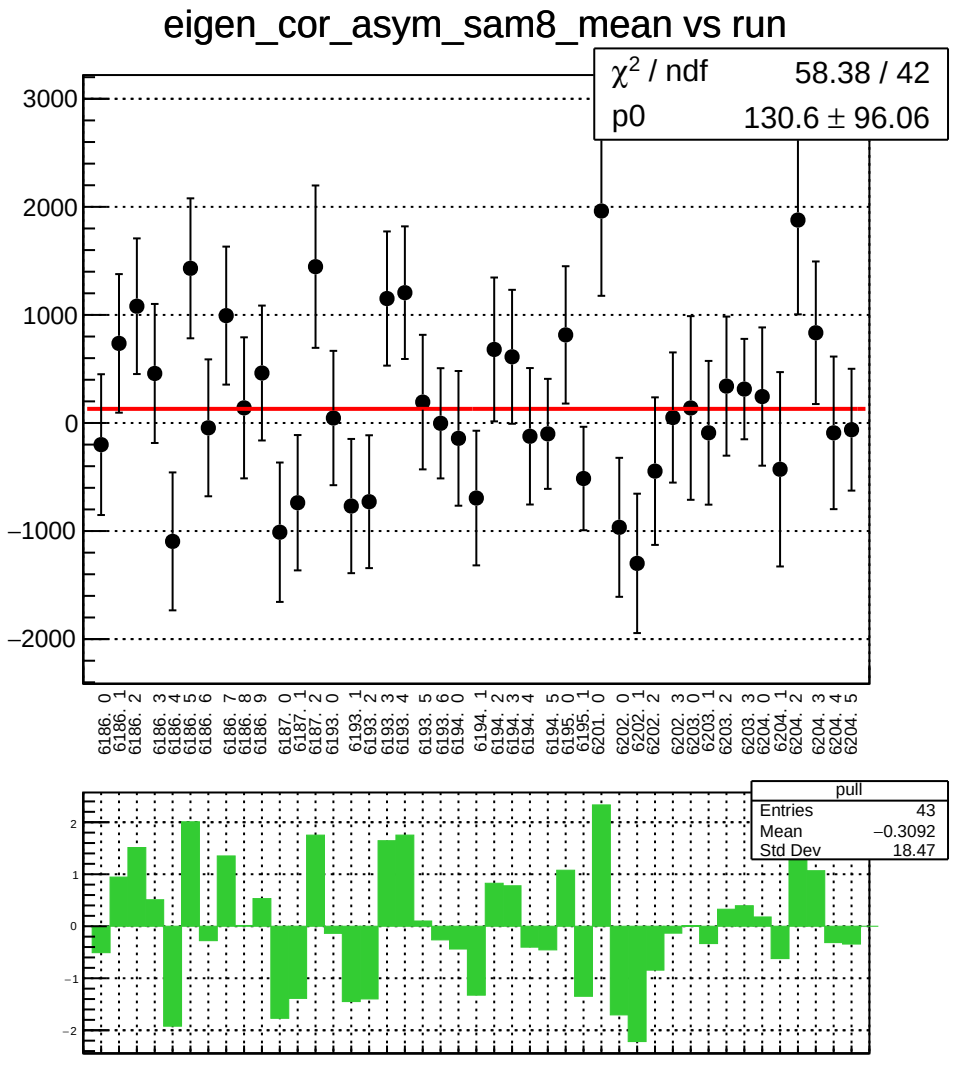

pull1D
Entries 43
Mean 0.03562
Std Dev 1.165
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

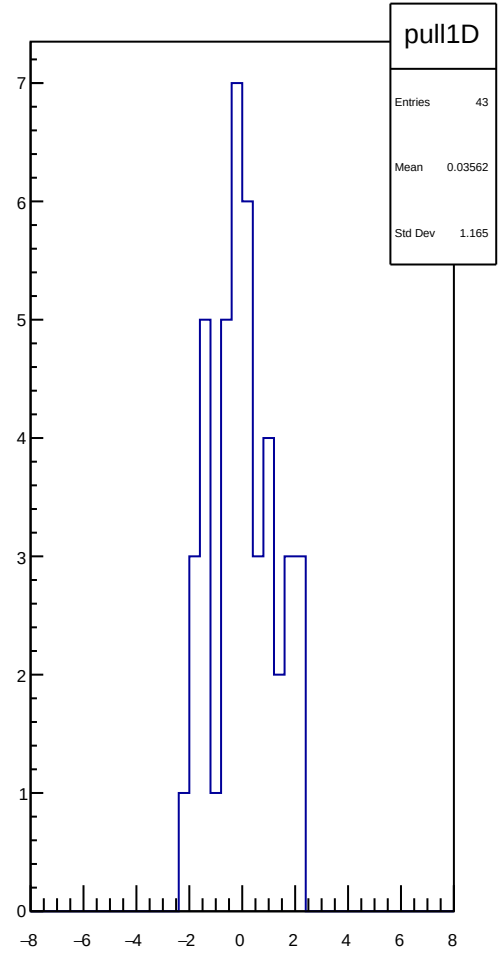

cor_asym_sam8_rms vs run
χ^2 / ndf 6366 / 42
p0 62.21 ± 0.06792
85
80
75
70
65
60
55
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

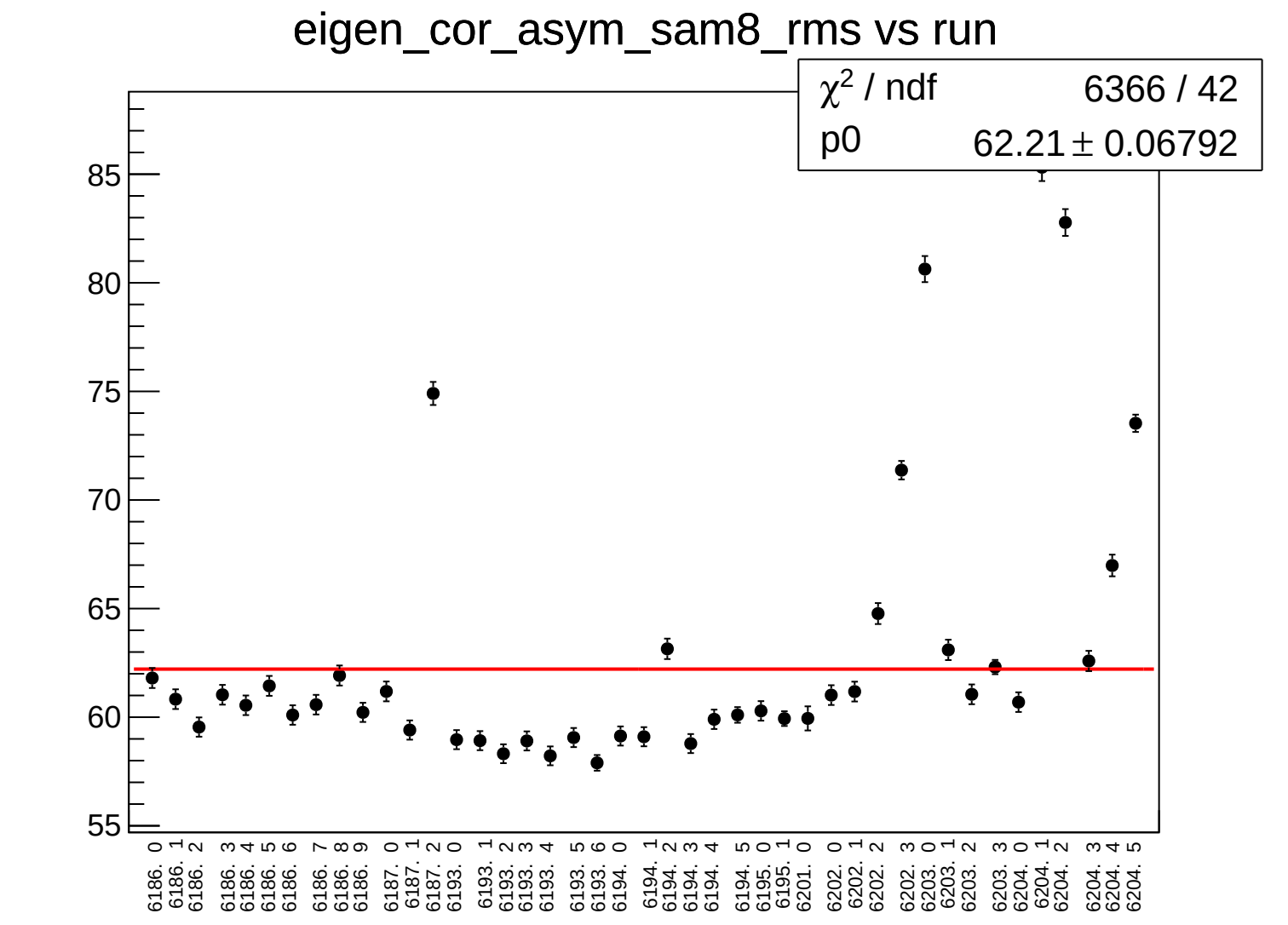

asym_sam8_cor_correction_mean vs run
χ² / ndf 46.52 / 42
p0 −387.7 ± 729.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −144.9
Std Dev 0
3
2
1
0
−1
−2

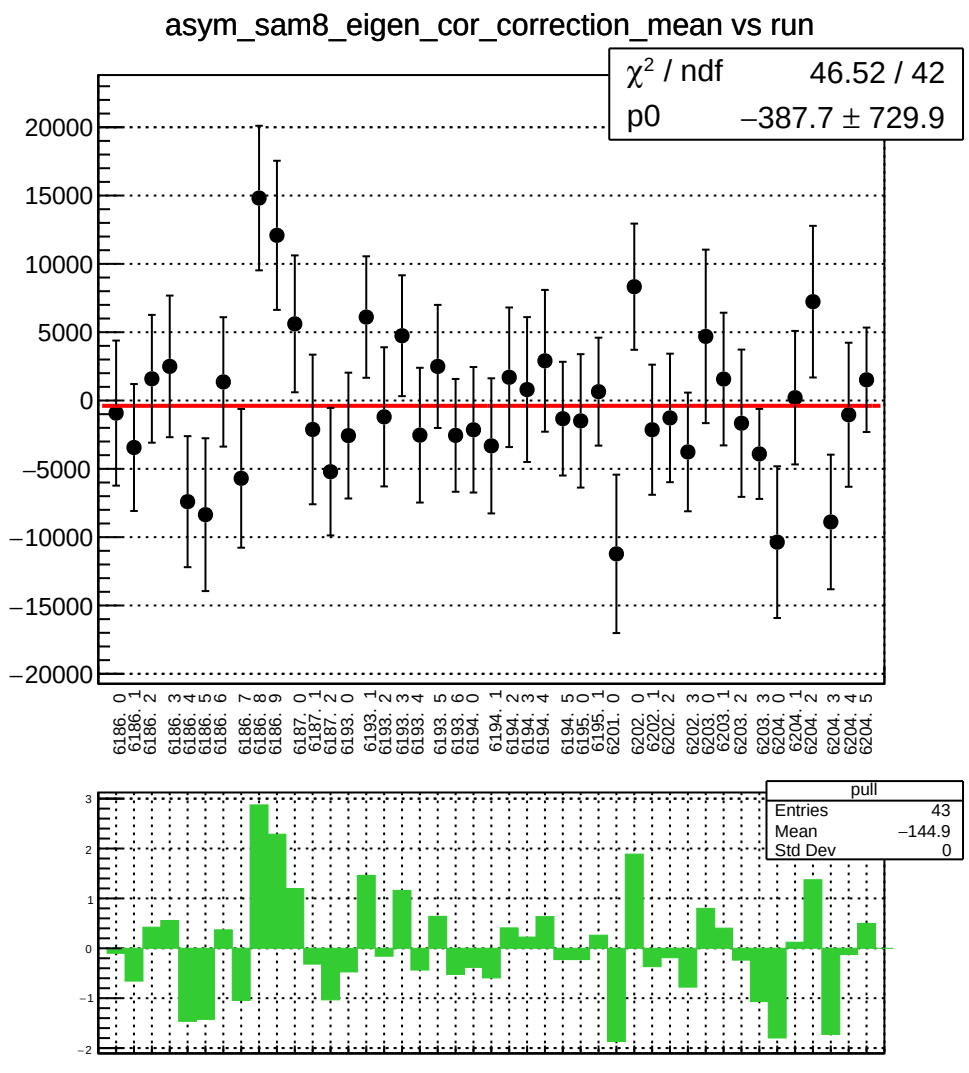

pull1D
Entries 43
Mean 0.008705
Std Dev 1.04
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

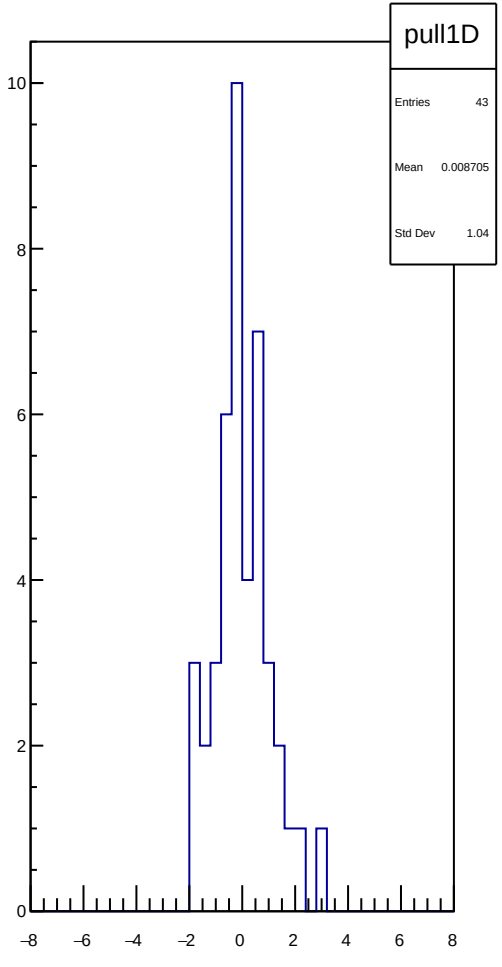

asym_sam8_cor_correction_rms vs run
χ² / ndf 4312 / 42
p0 473.3 ± 0.5161
600
550
500
450
400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

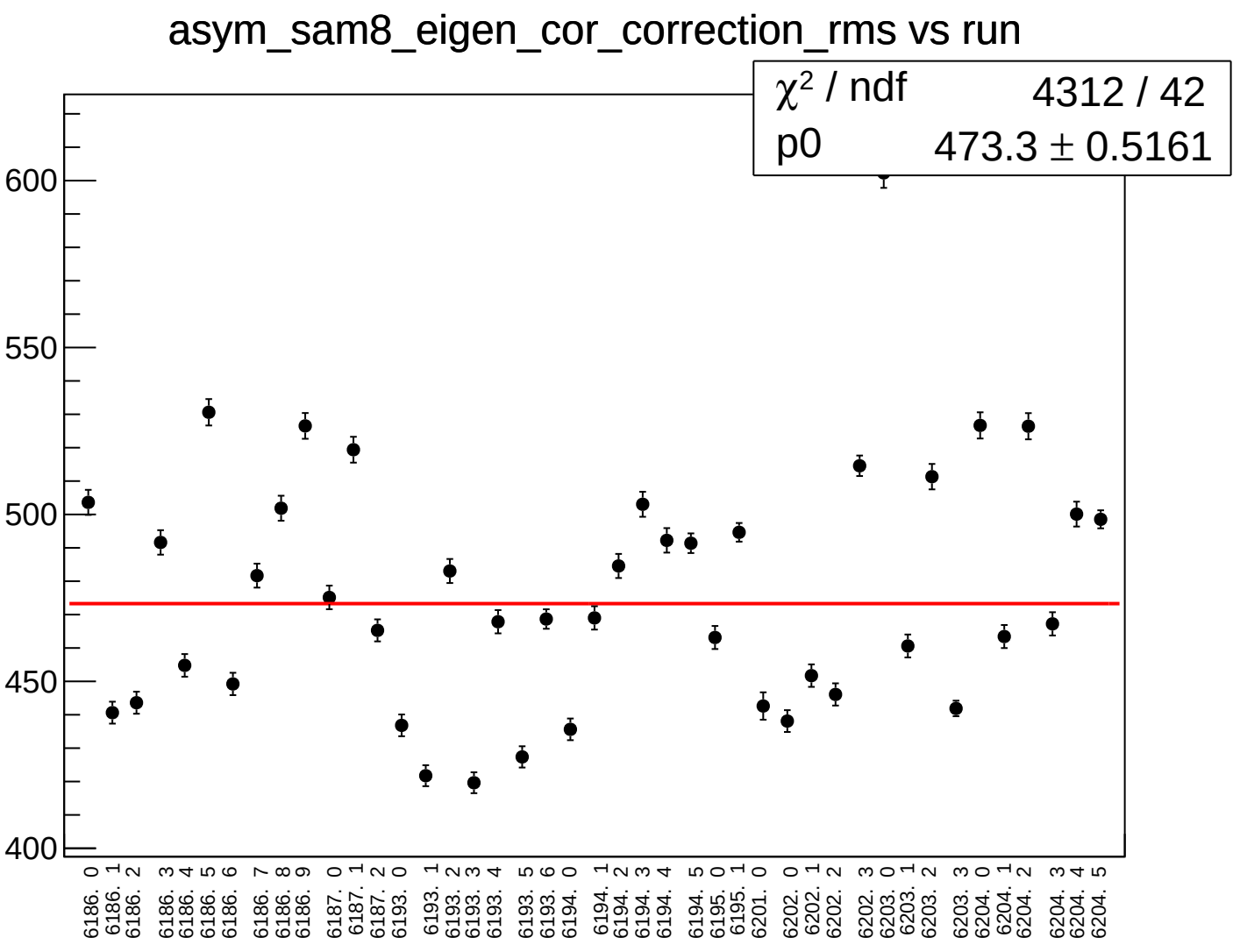

eigen_cor_asym_sam8_mean vs run
χ² / ndf 58.38 / 42
p0 130.6 ± 96.06
3000
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −0.3092
Std Dev 18.47
2
1
0
−1
−2

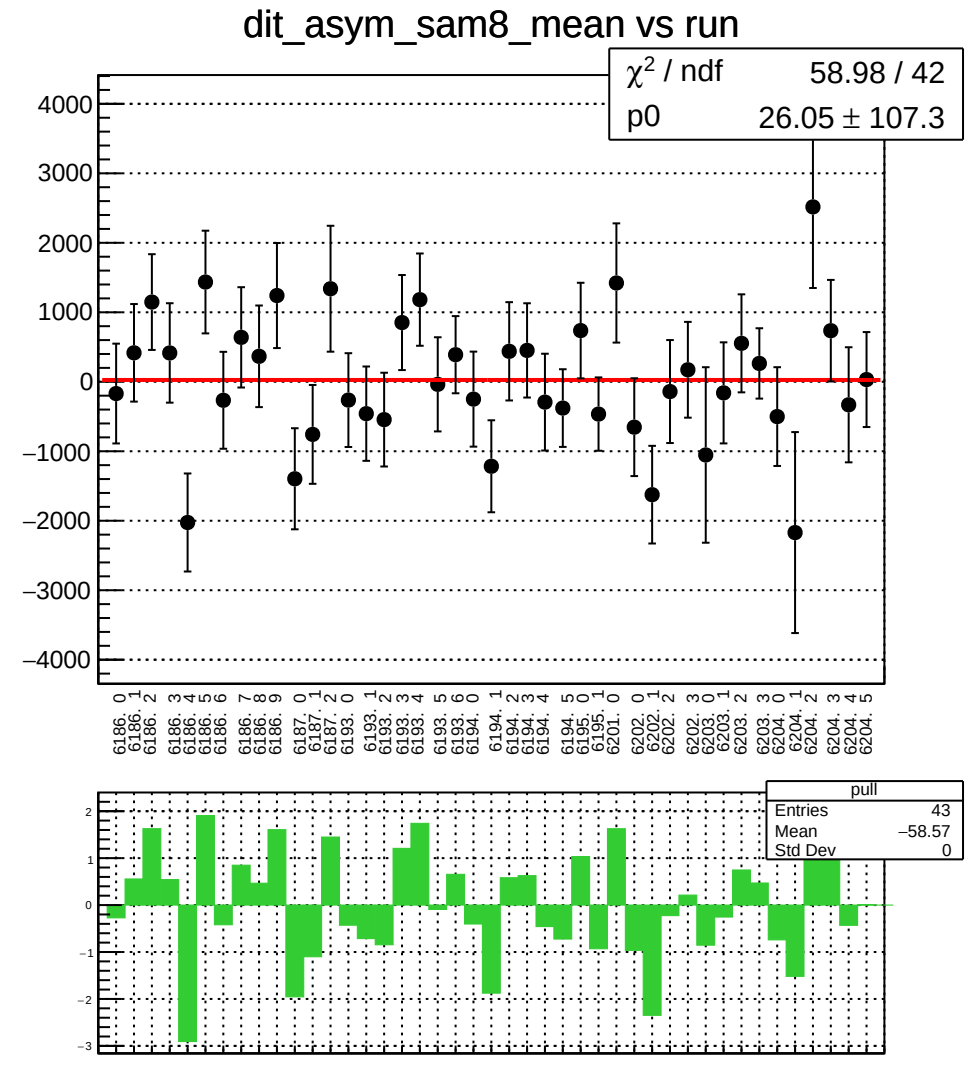

pull1D
Entries 43
Mean 0.03562
Std Dev 1.165
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

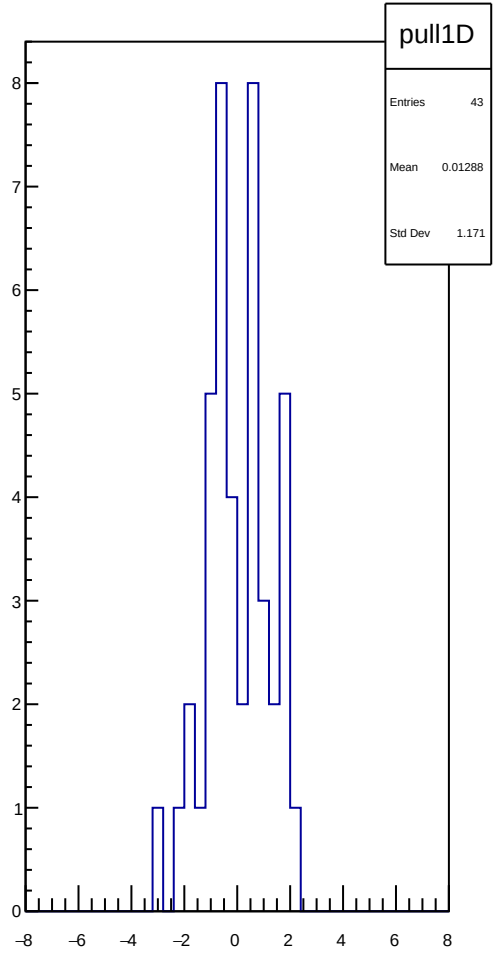

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 6366 / 42
p0 62.21 ± 0.06792
85
80
75
70
65
60
55
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

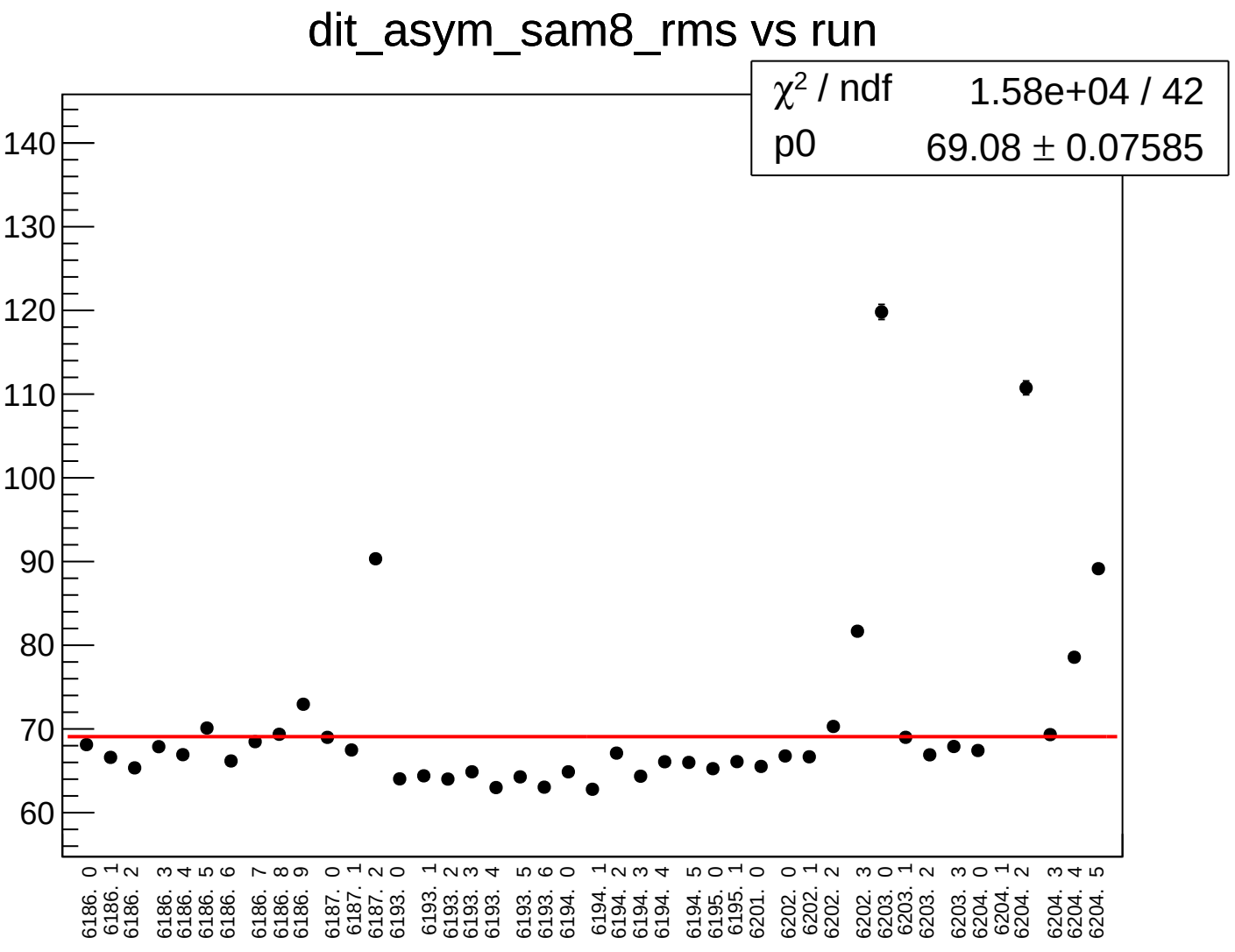

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 46.52 / 42
p0 −387.7 ± 729.9
pull
Entries 43
Mean −144.9
Std Dev 0

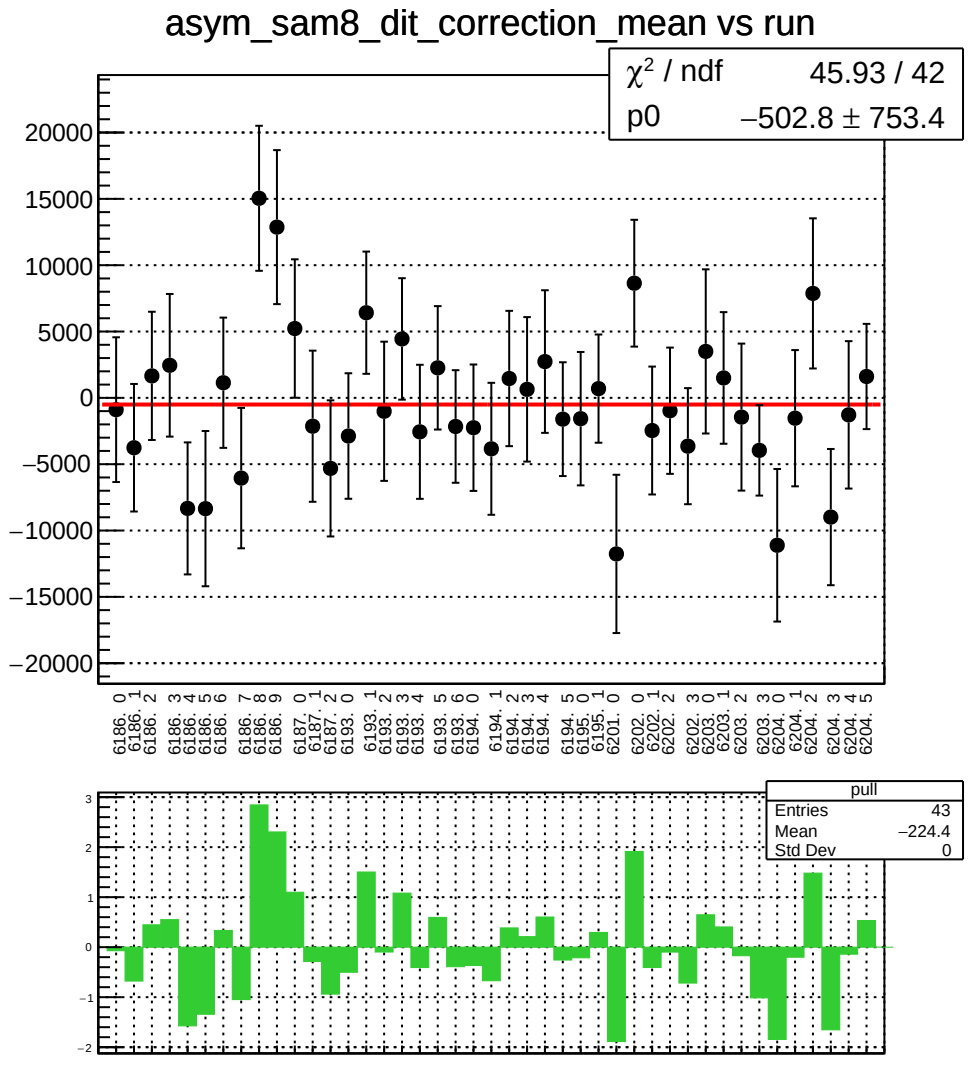

pull1D
Entries 43
Mean 0.008705
Std Dev 1.04

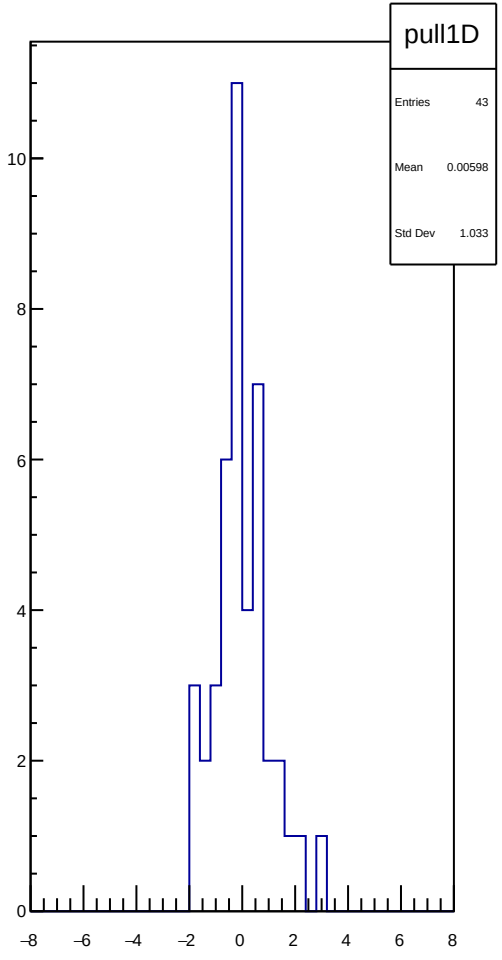

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 4312 / 42
p0 473.3 ± 0.5161
600
550
500
450
400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

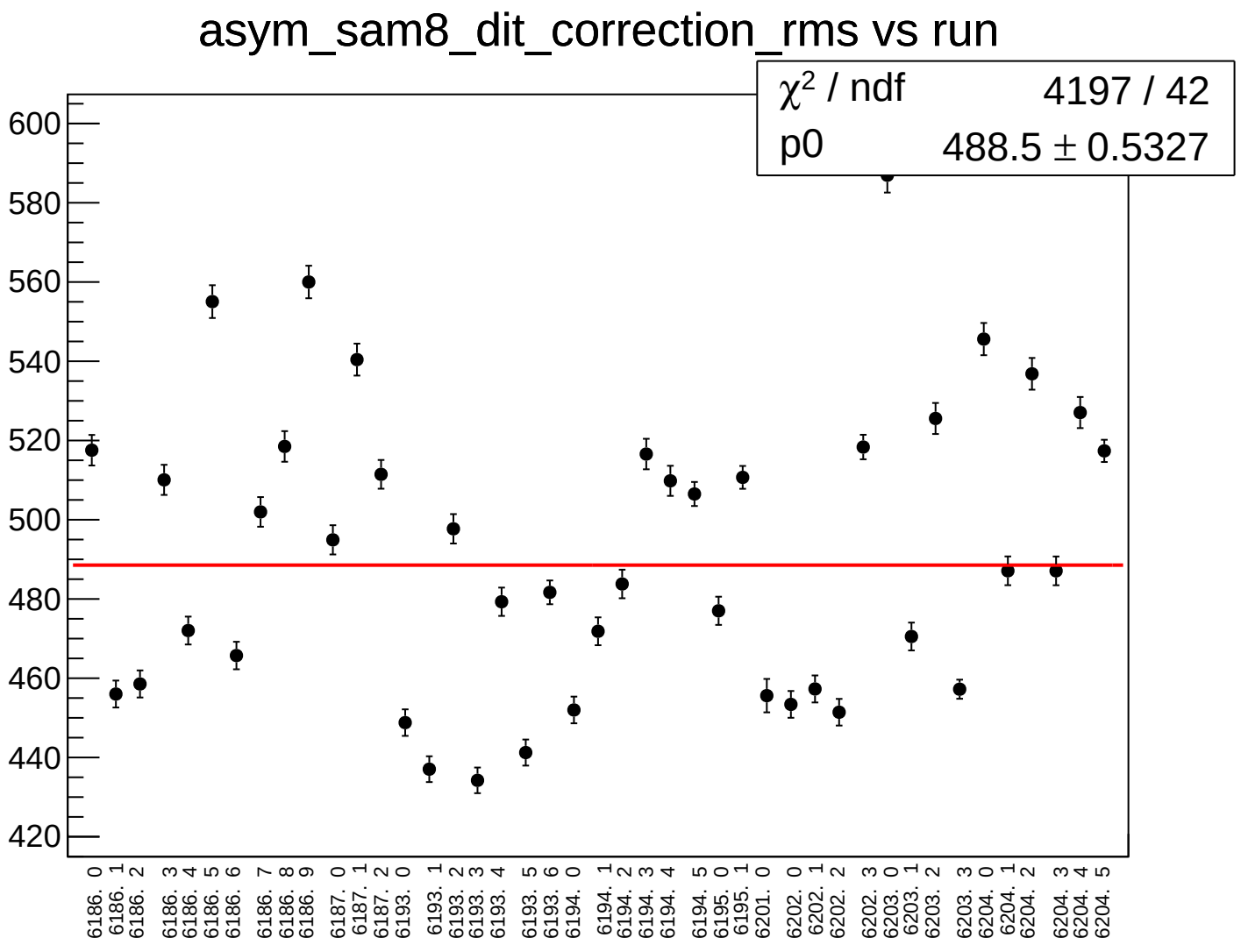

dit_asym_sam8_mean vs run
χ² / ndf 58.98 / 42
p0 26.05 ± 107.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −58.57
Std Dev 0
2
1
0
−1
−2
−3

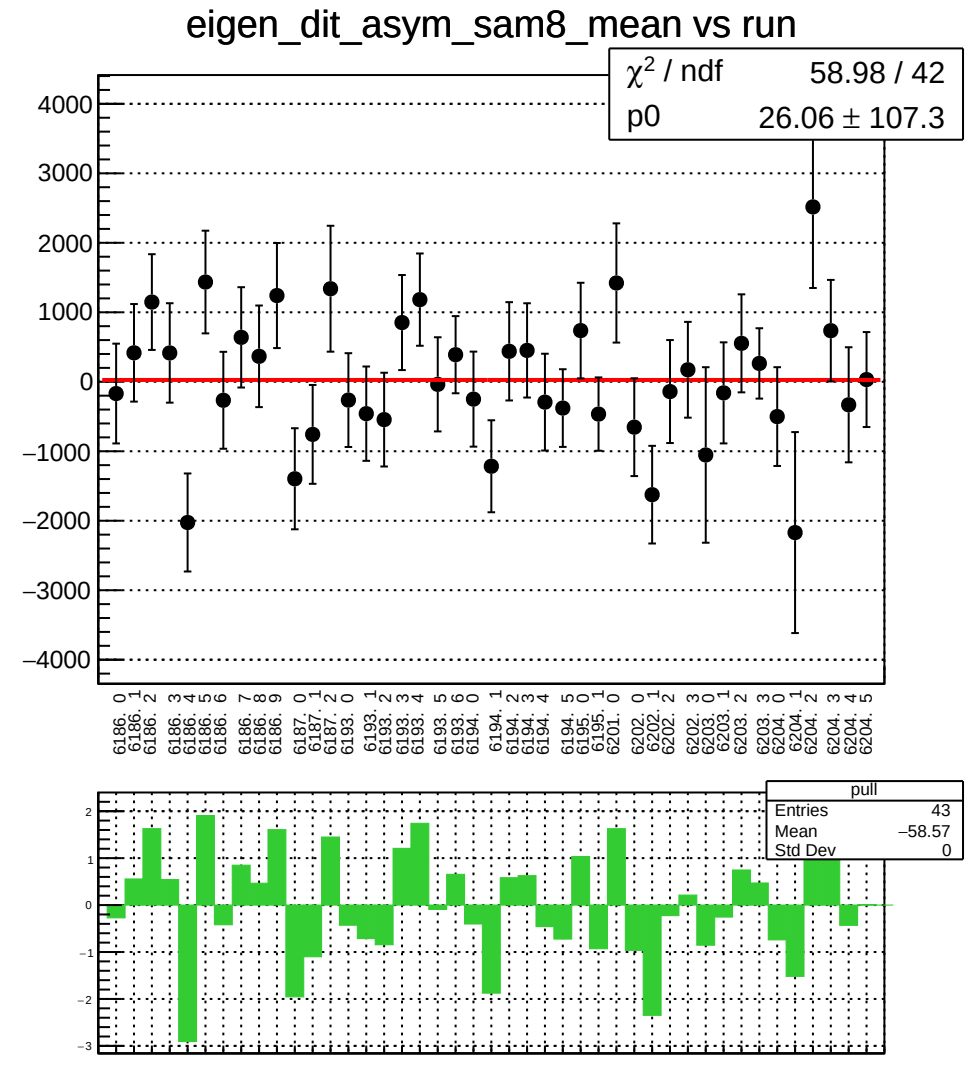

pull1D
Entries 43
Mean 0.01288
Std Dev 1.171
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

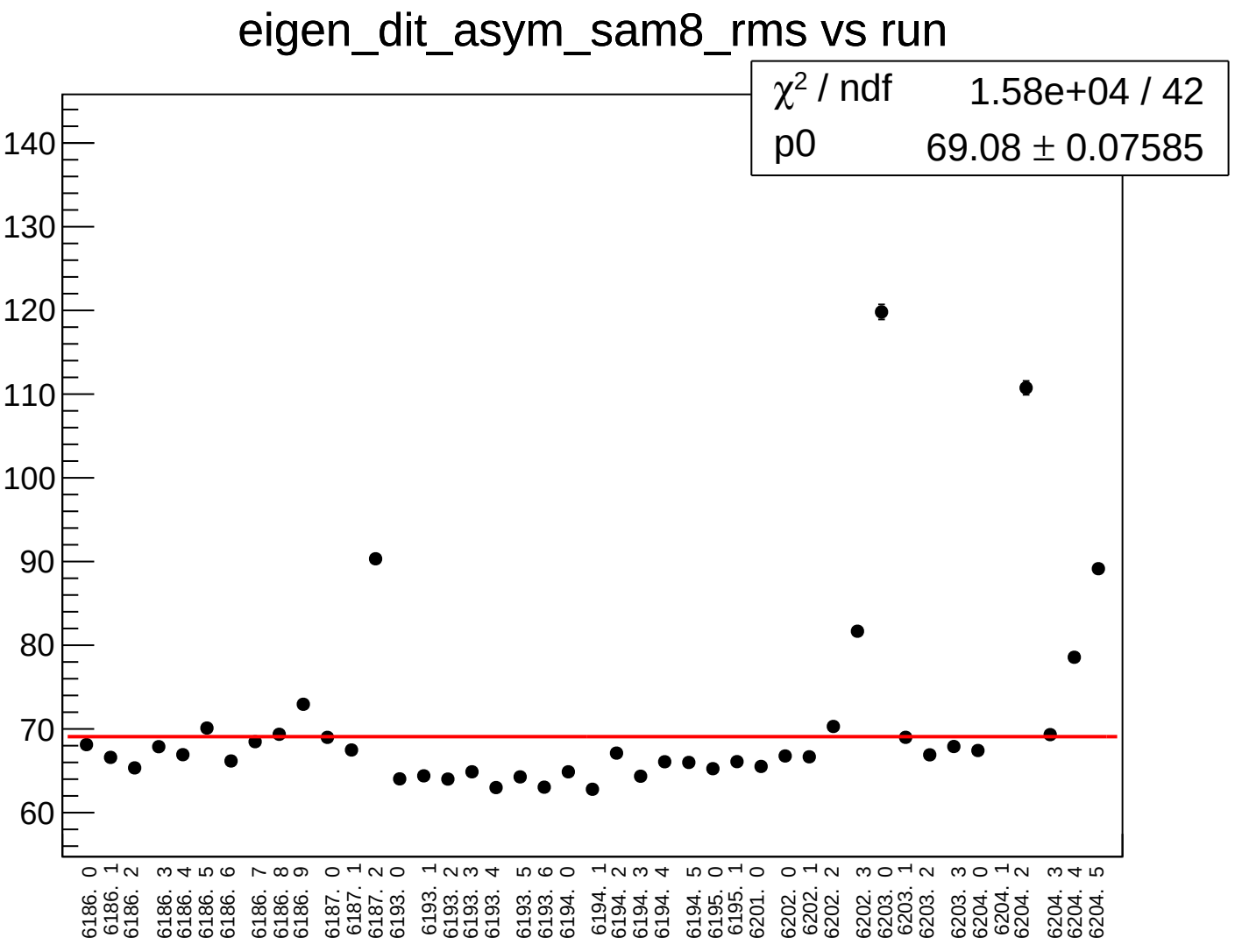

dit_asym_sam8_rms vs run
χ² / ndf 1.58e+04 / 42
p0 69.08 ± 0.07585
140
130
120
110
100
90
80
70
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

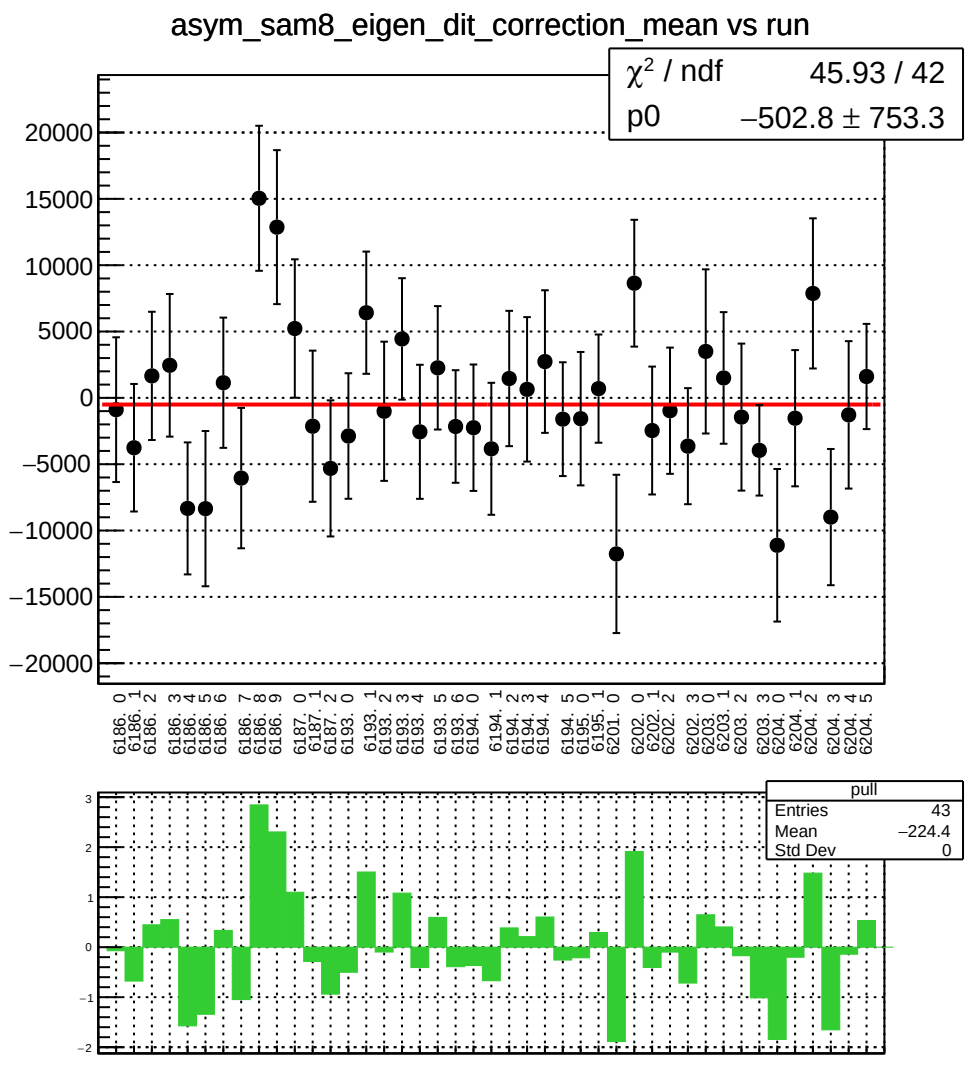

asym_sam8_dit_correction_mean vs run
χ² / ndf 45.93 / 42
p0 −502.8 ± 753.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −224.4
Std Dev 0
3
2
1
0
−1
−2

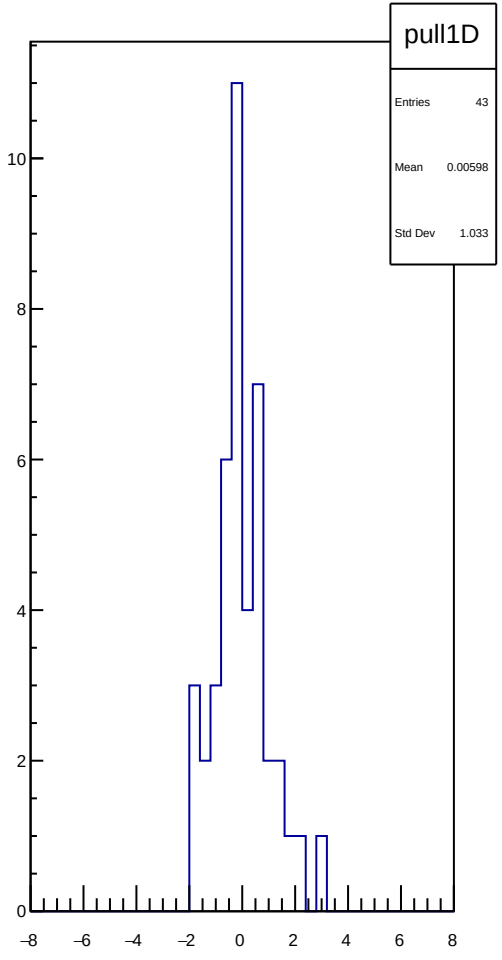

pull1D
Entries 43
Mean 0.00598
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

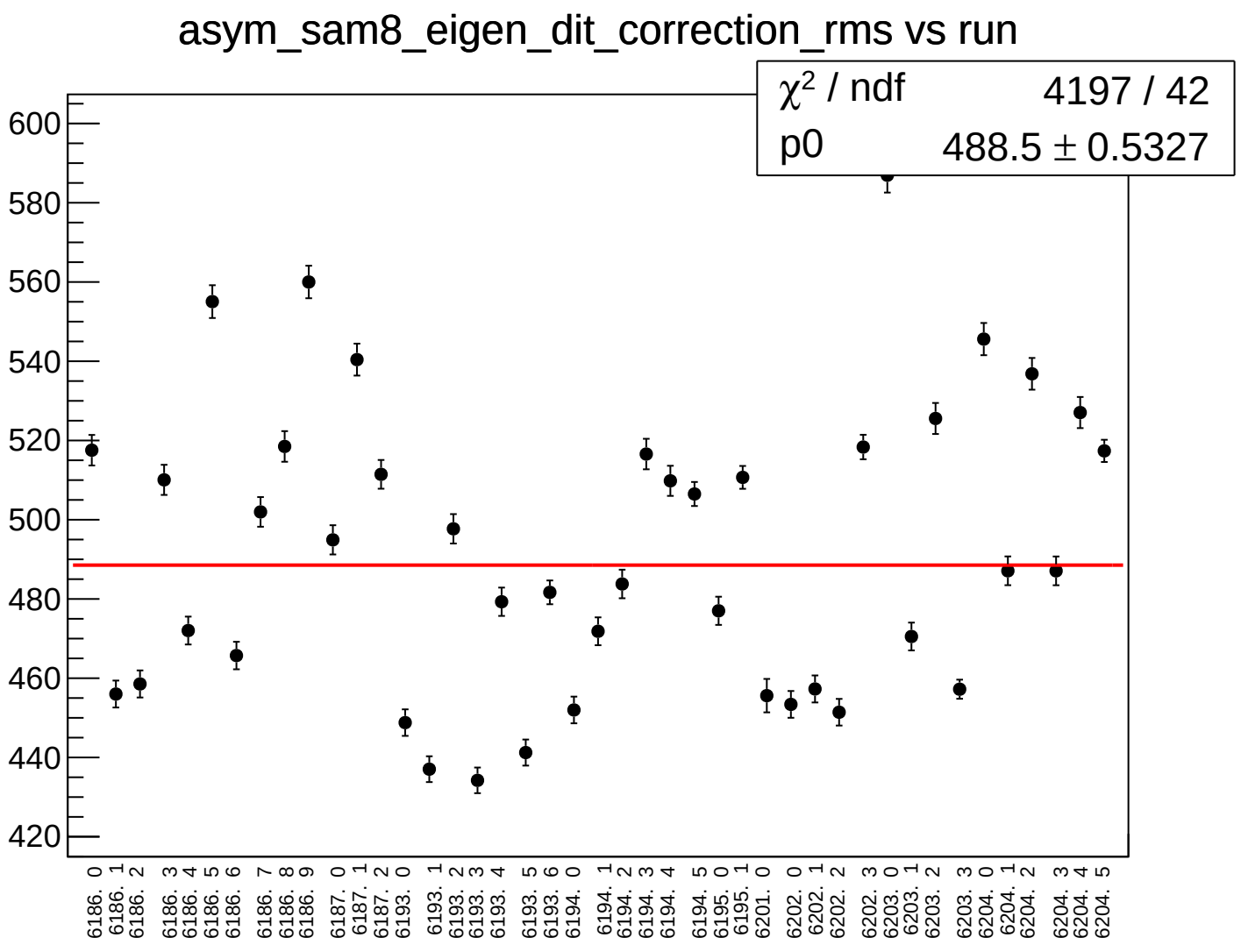

asym_sam8_dit_correction_rms vs run
χ² / ndf 4197 / 42
p0 488.5 ± 0.5327
600
580
560
540
520
500
480
460
440
420
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

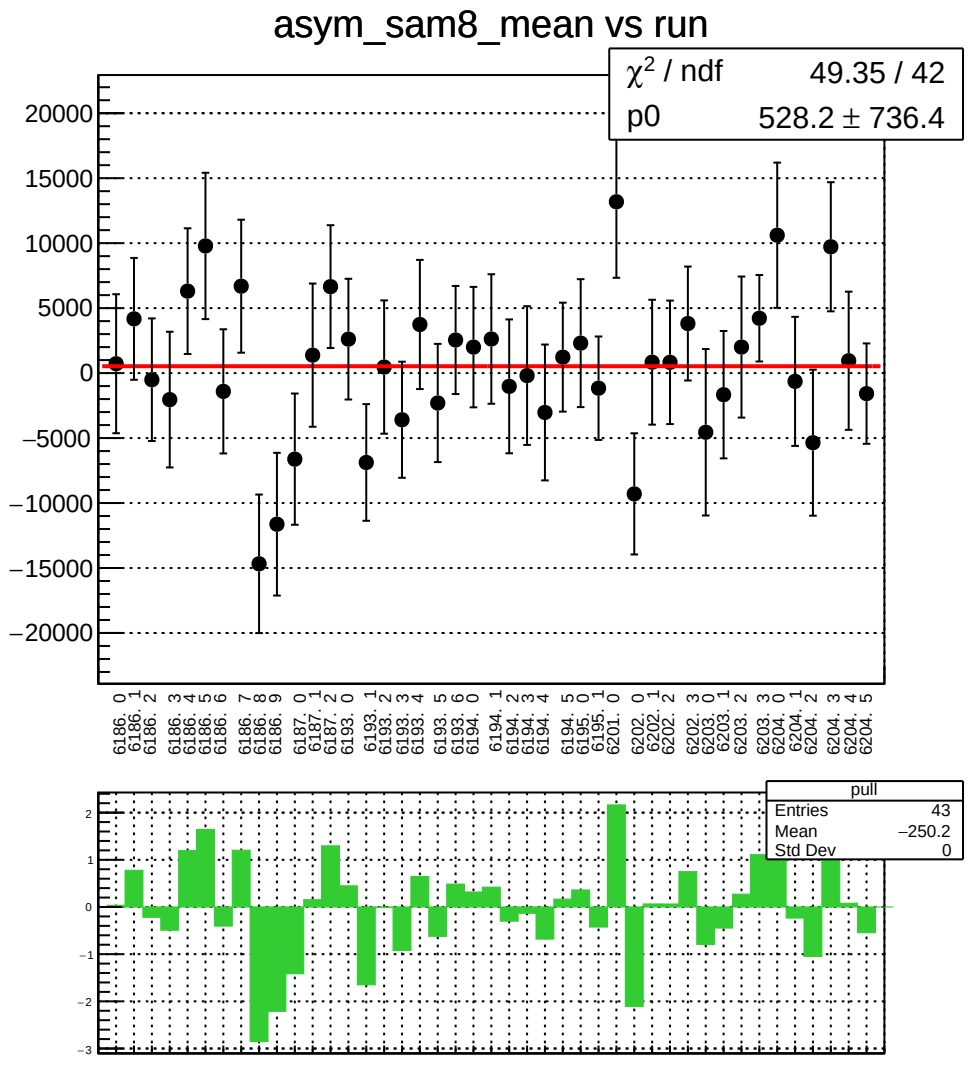

eigen_dit_asym_sam8_mean vs run
χ² / ndf 58.98 / 42
p0 26.06 ± 107.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −58.57
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01288
Std Dev 1.171
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

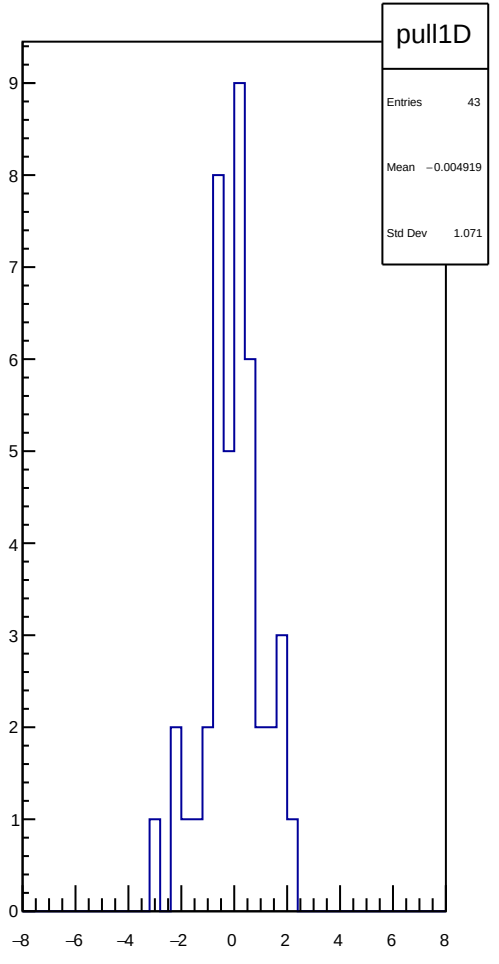

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 1.58e+04 / 42
p0 69.08 ± 0.07585
140
130
120
110
100
90
80
70
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

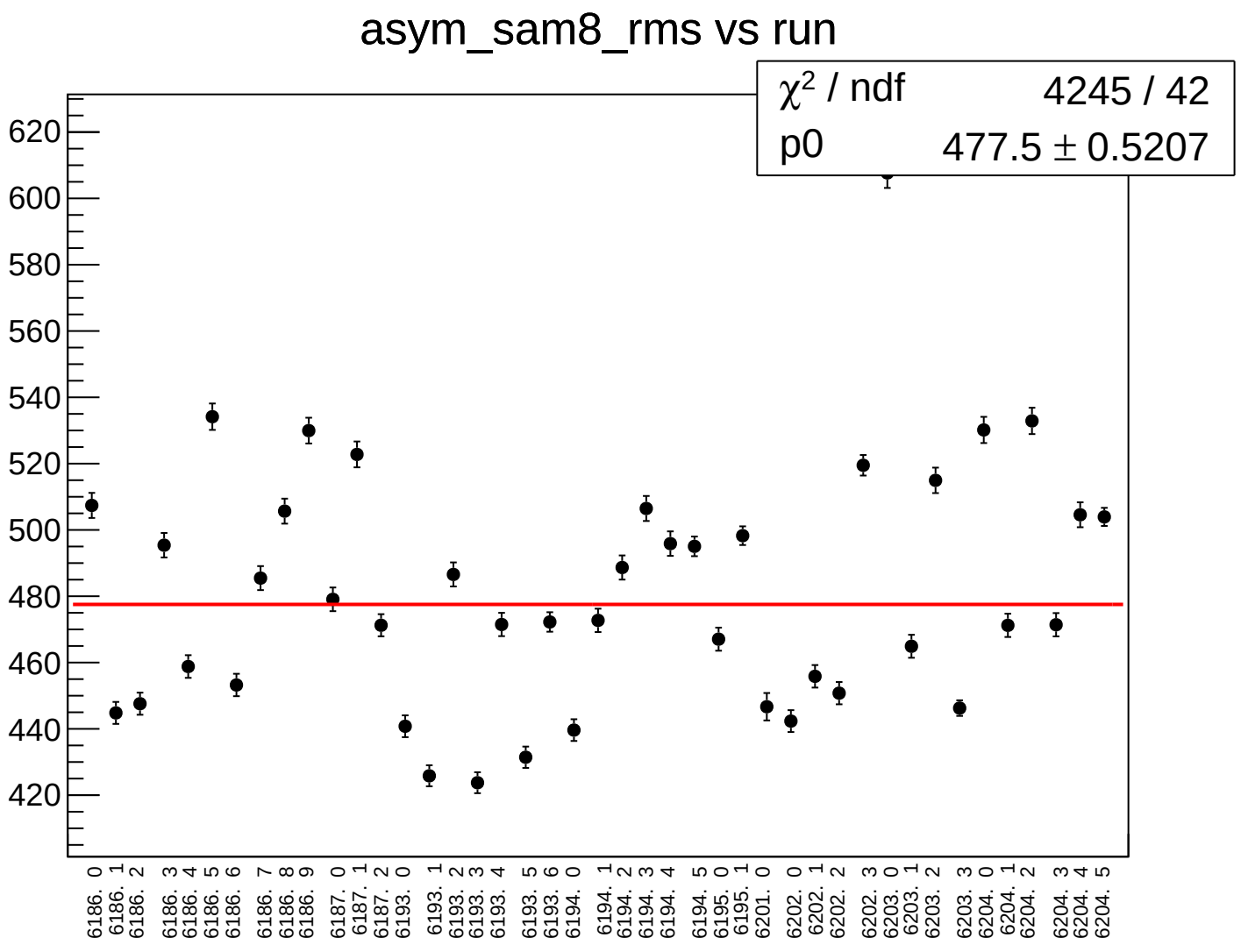

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 45.93 / 42
p0 −502.8 ± 753.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −224.4
Std Dev 0
3
2
1
0
−1
−2

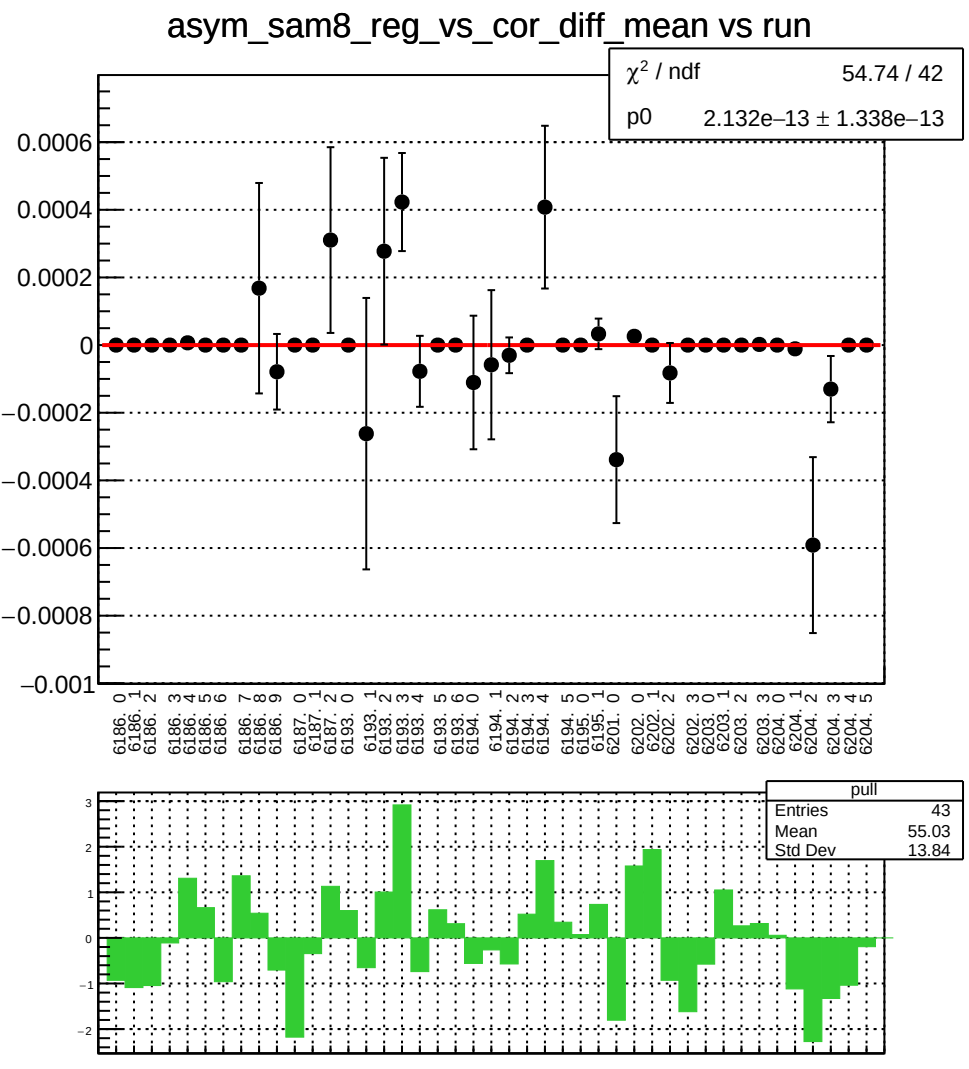

pull1D
Entries 43
Mean 0.00598
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

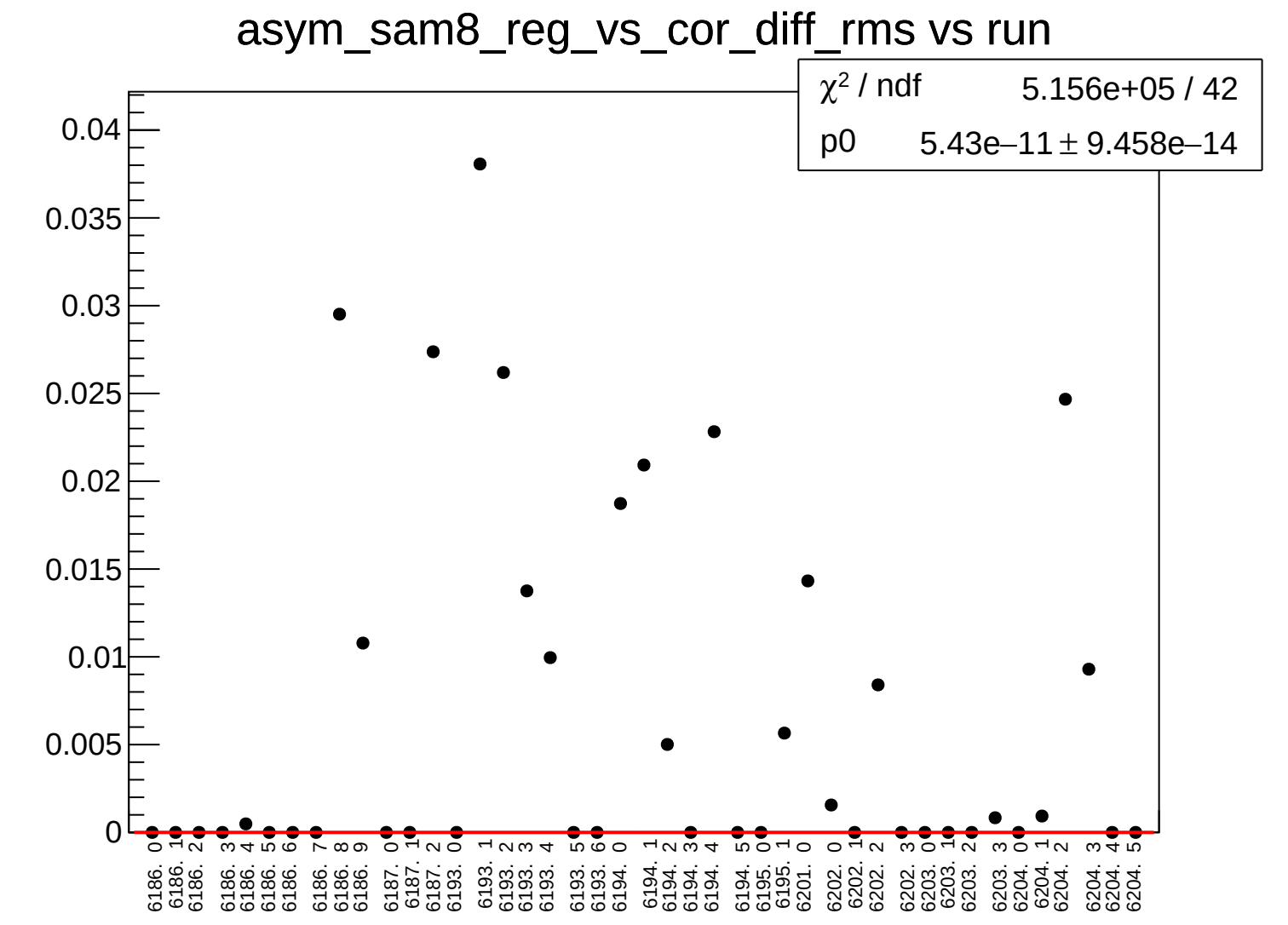

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 4197 / 42
p0 488.5 ± 0.5327
600
580
560
540
520
500
480
460
440
420
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

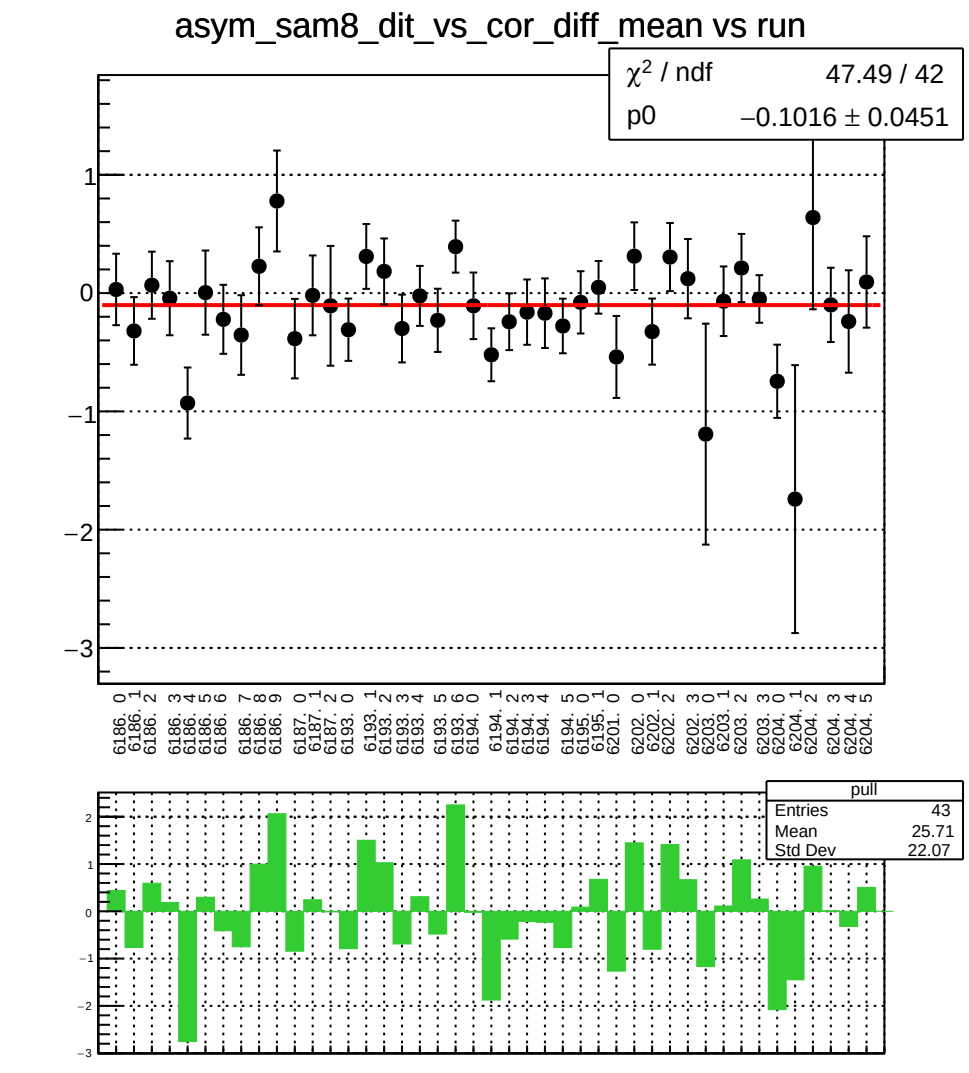

asym_sam8_mean vs run
χ² / ndf 49.35 / 42
p0 528.2 ± 736.4
pull
Entries 43
Mean −250.2
Std Dev 0

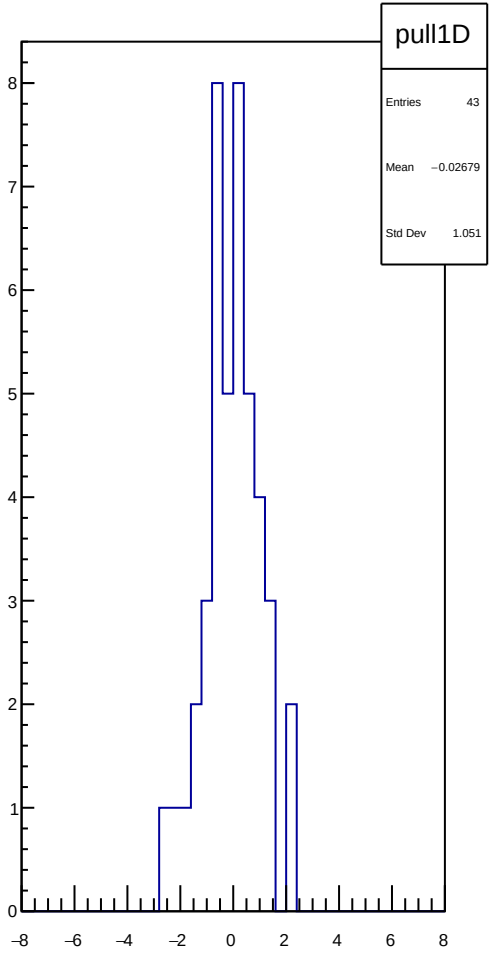

pull1D
Entries 43
Mean −0.004919
Std Dev 1.071

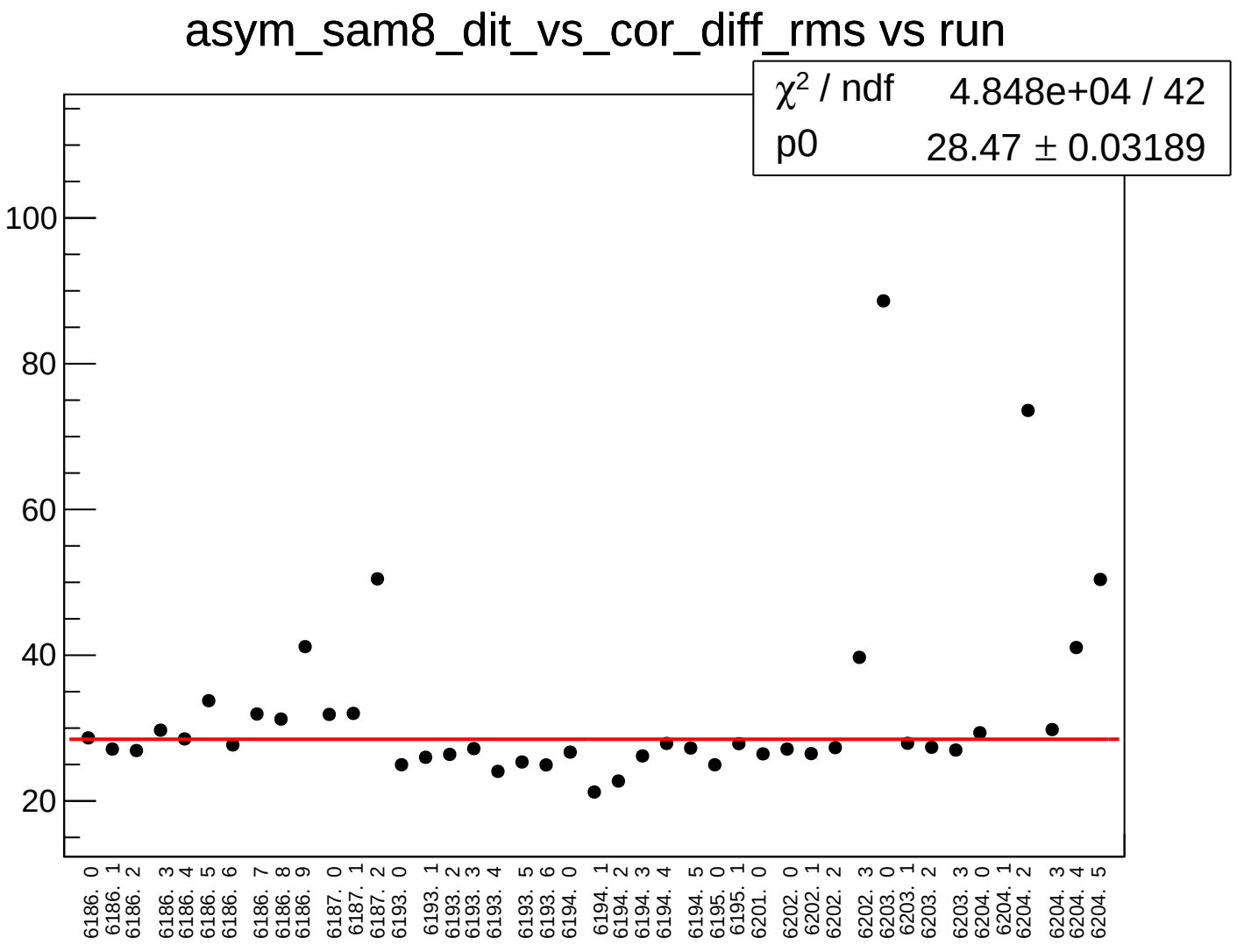

asym_sam8_rms vs run
χ² / ndf 4245 / 42
p0 477.5 ± 0.5207
620
600
580
560
540
520
500
480
460
440
420
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

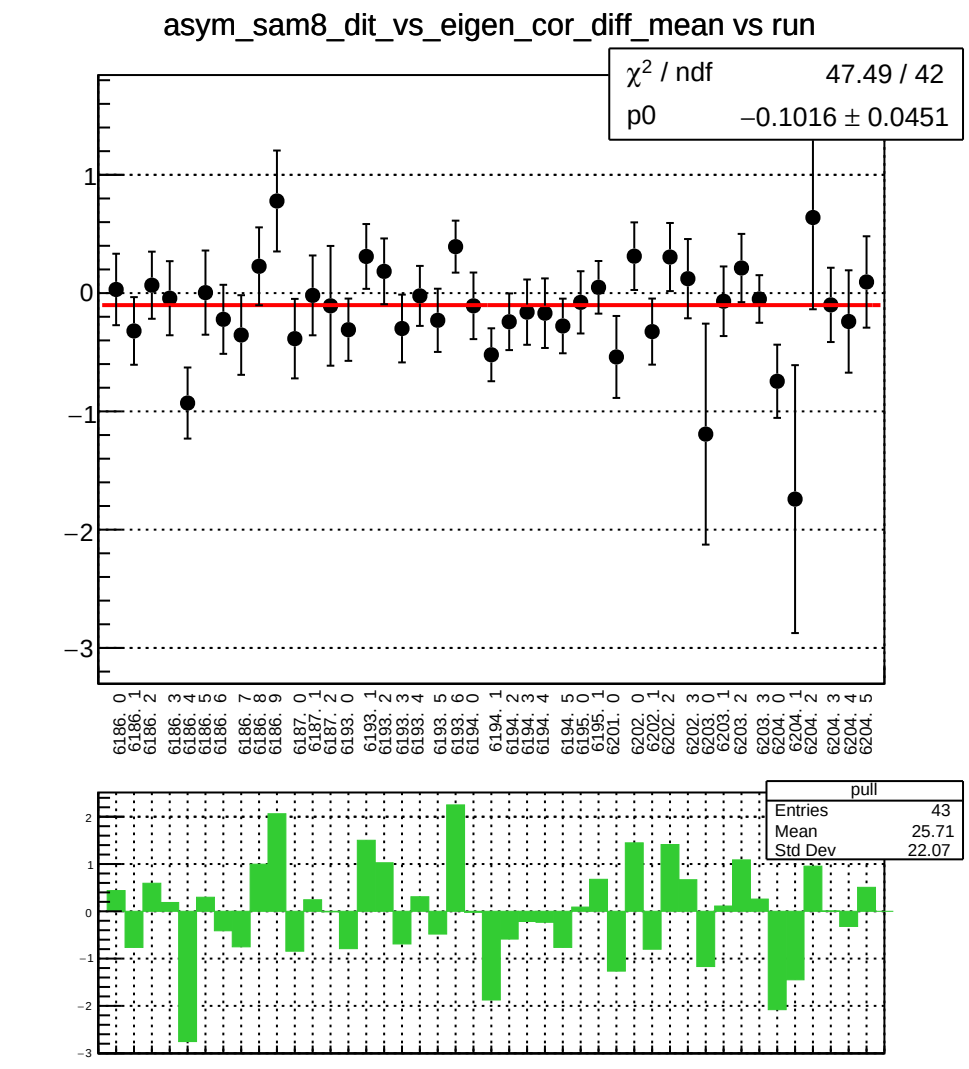

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 54.74 / 42
p0 2.132e−13 ± 1.338e−13
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 55.03
Std Dev 13.84
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04672
Std Dev 1.127
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

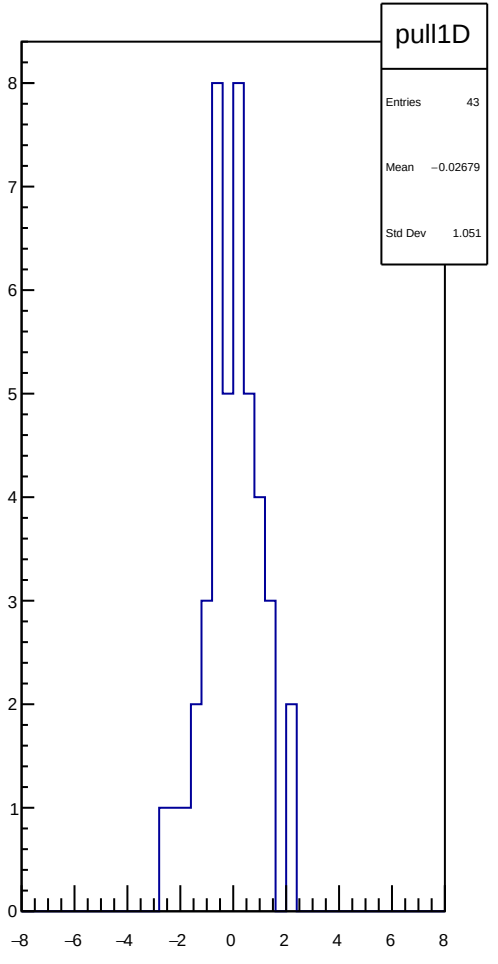

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 5.156e+05 / 42
p0 5.43e−11 ± 9.458e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

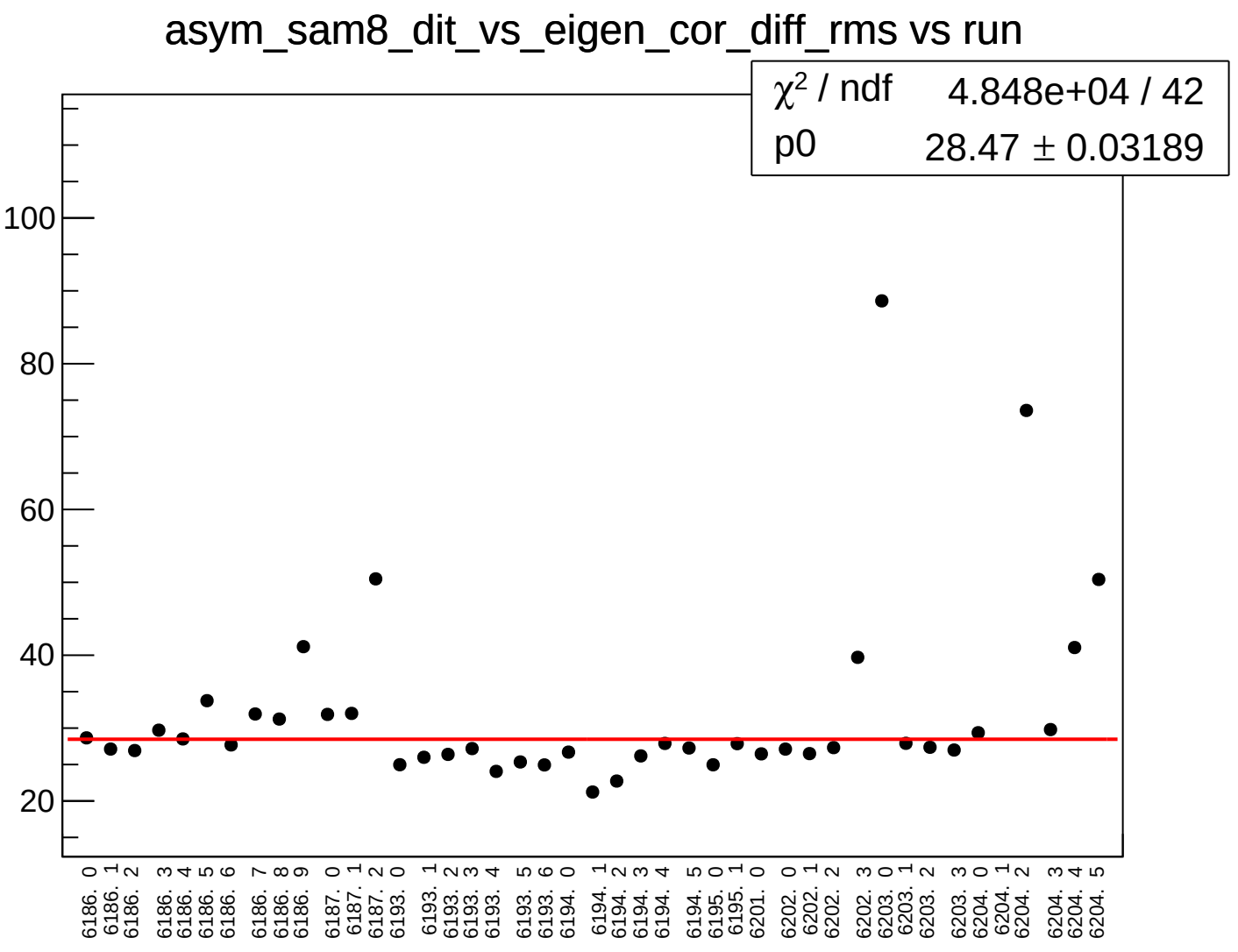

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 47.49 / 42
p0 −0.1016 ± 0.0451
pull
Entries 43
Mean 25.71
Std Dev 22.07

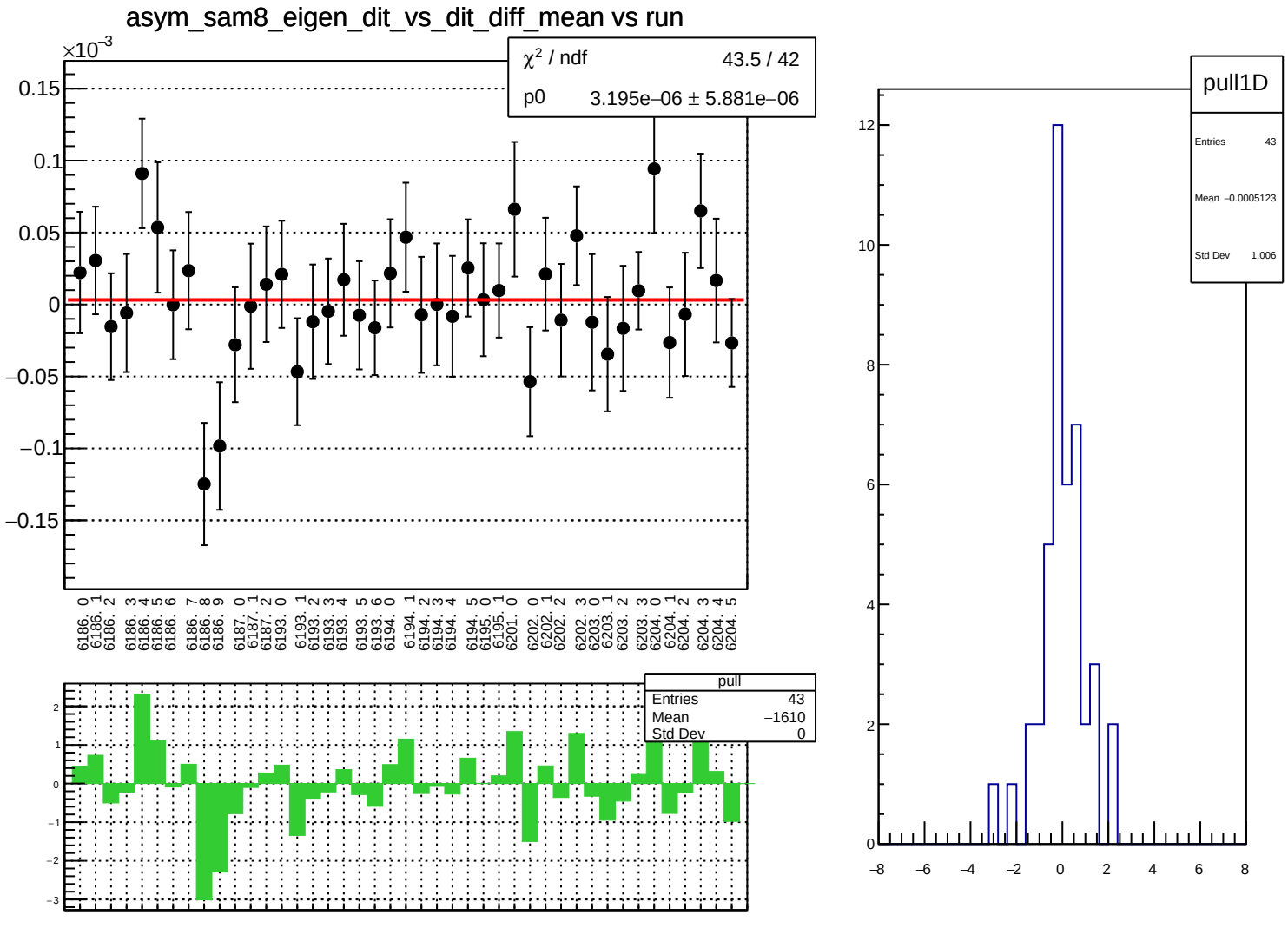

pull1D
Entries 43
Mean −0.02679
Std Dev 1.051

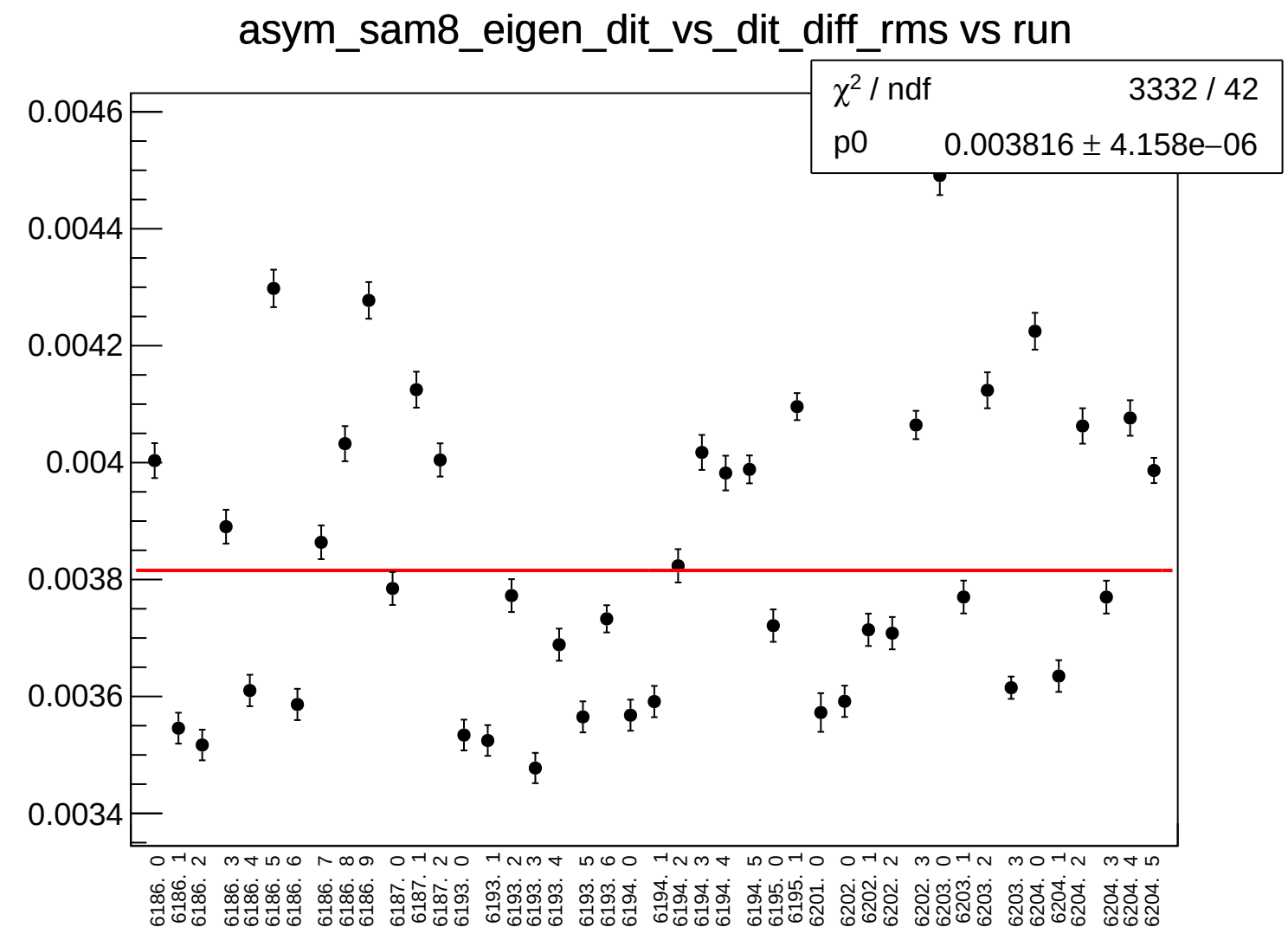

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 4.848e+04 / 42
p0 28.47 ± 0.03189
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

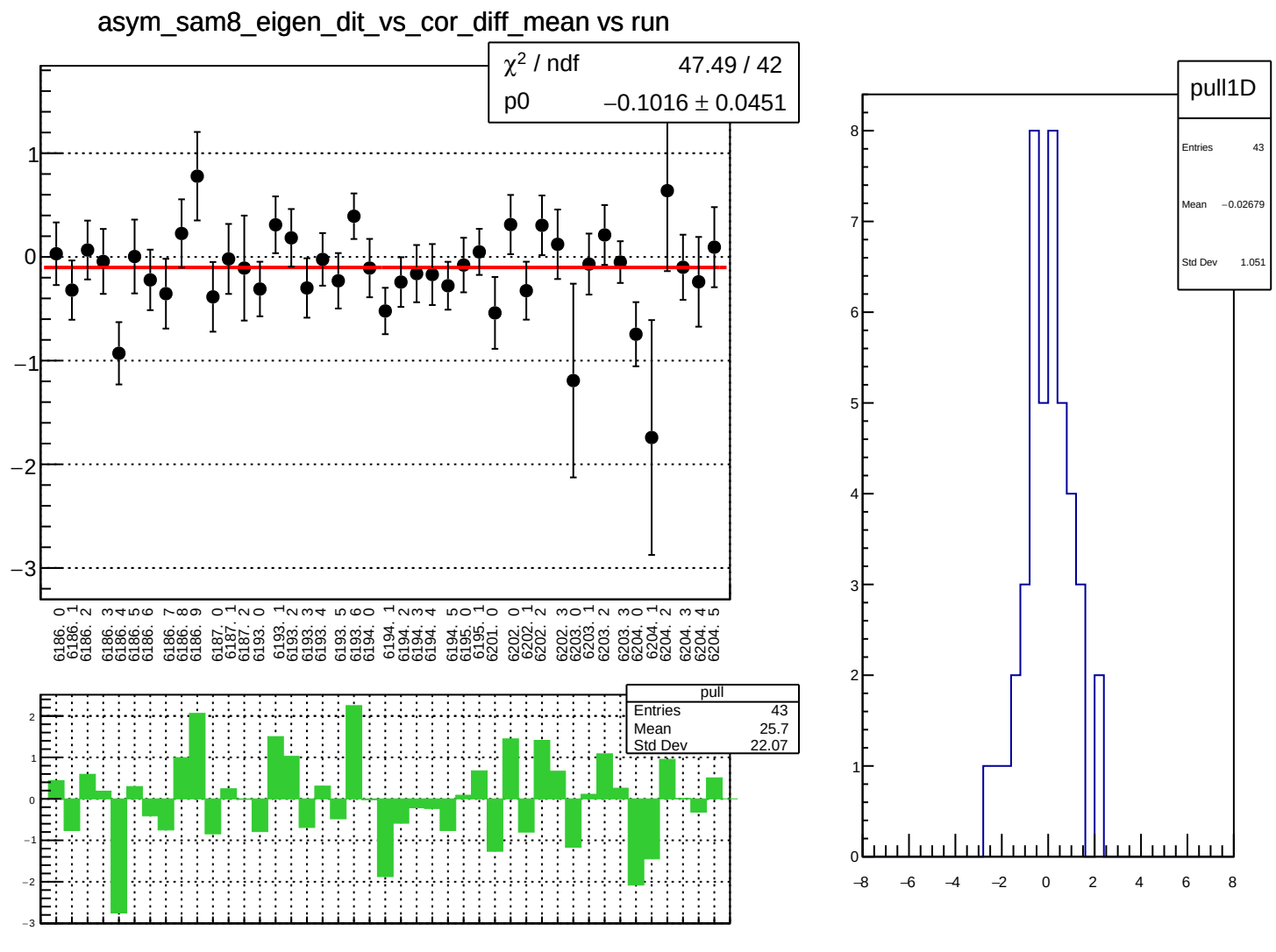

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.49 / 42
p0 −0.1016 ± 0.0451
pull
Entries 43
Mean 25.71
Std Dev 22.07

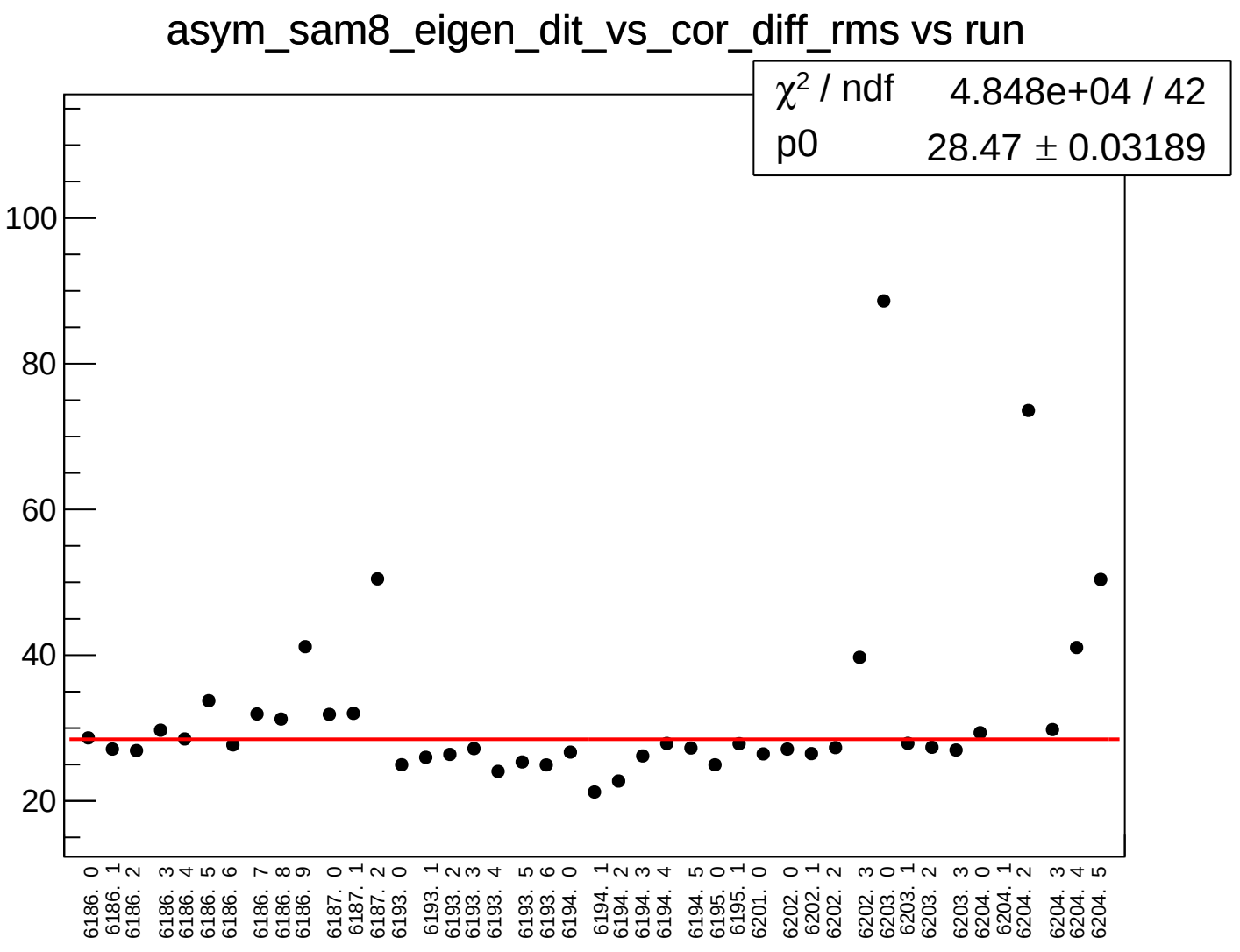

pull1D
Entries 43
Mean −0.02679
Std Dev 1.051

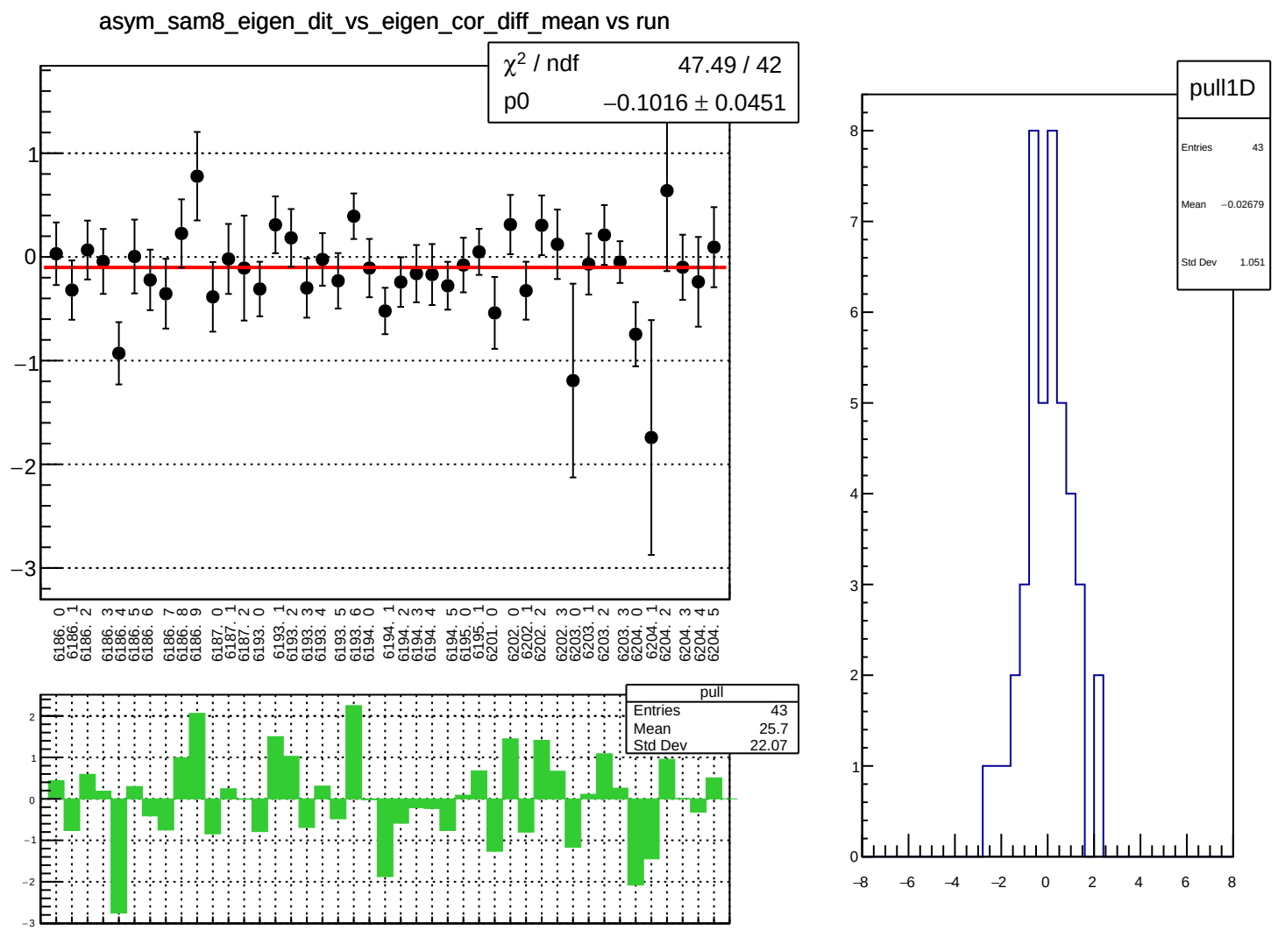

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.848e+04 / 42
p0 28.47 ± 0.03189
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

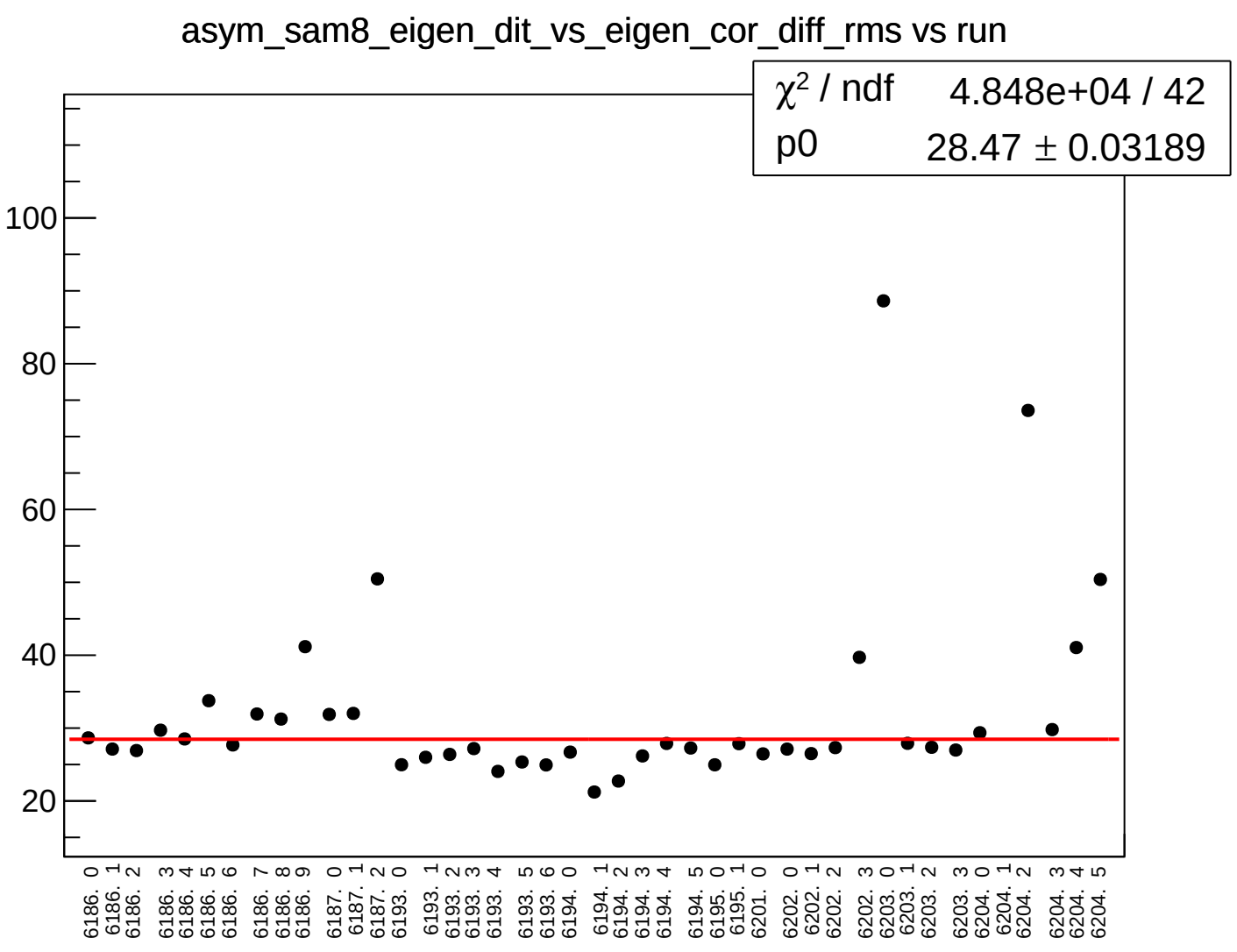

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 43.5 / 42
p0 3.195e−06 ± 5.881e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1610
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.0005123
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

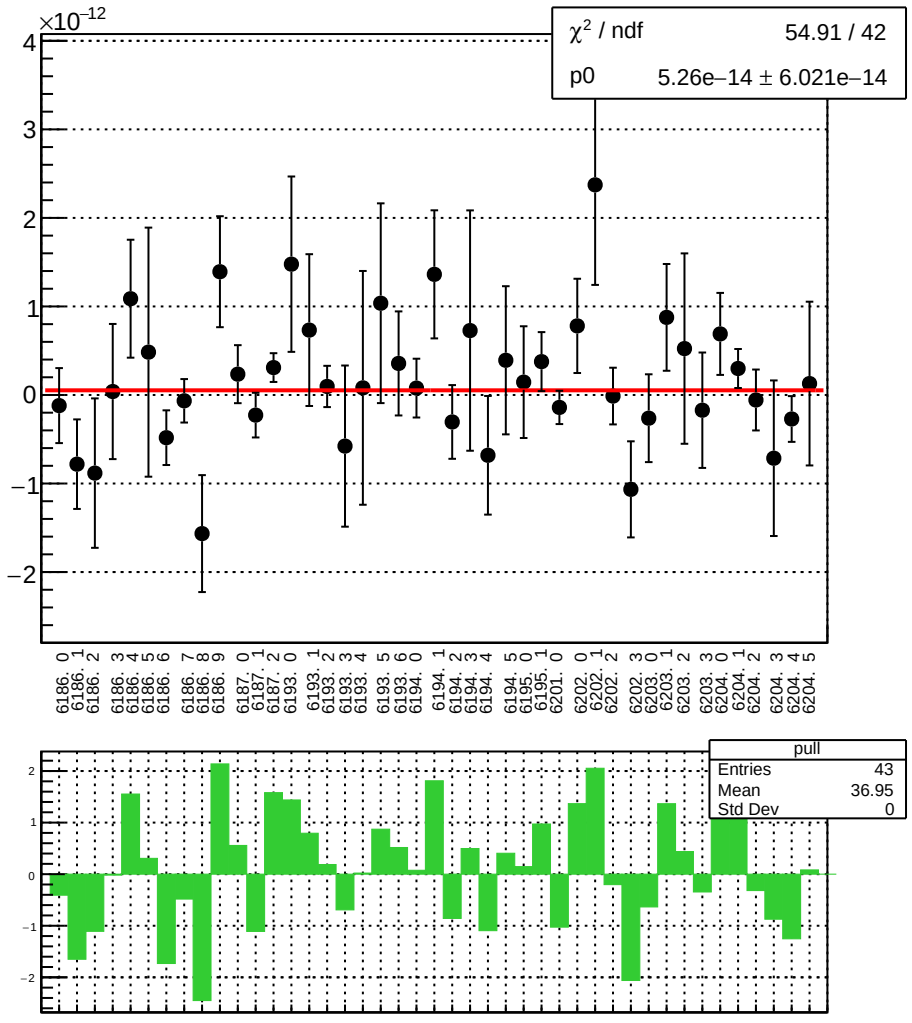

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3332 / 42
p0 0.003816 ± 4.158e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

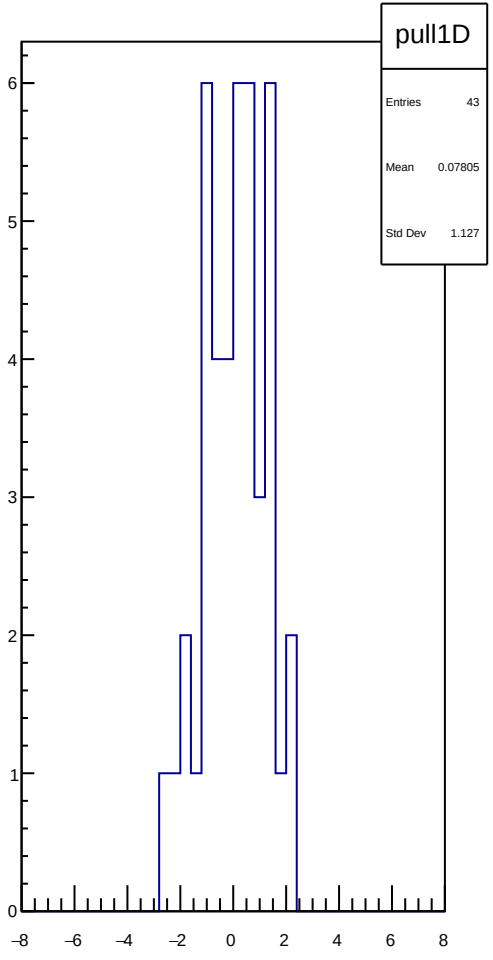

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.49 / 42
p0 −0.1016 ± 0.0451
pull
Entries 43
Mean 25.7
Std Dev 22.07
pull1D
Entries 43
Mean −0.02679
Std Dev 1.051

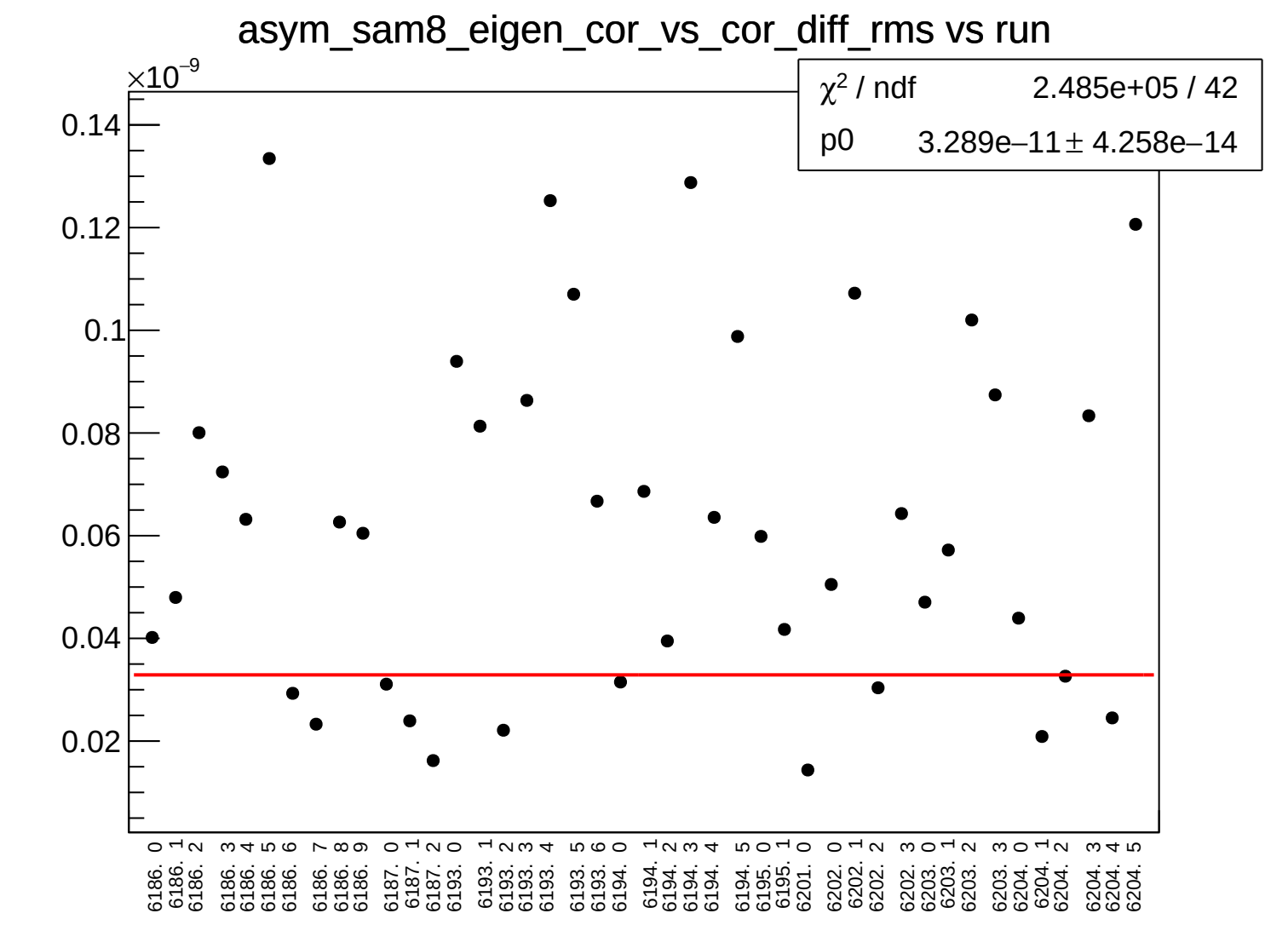

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.848e+04 / 42
p0 28.47 ± 0.03189
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

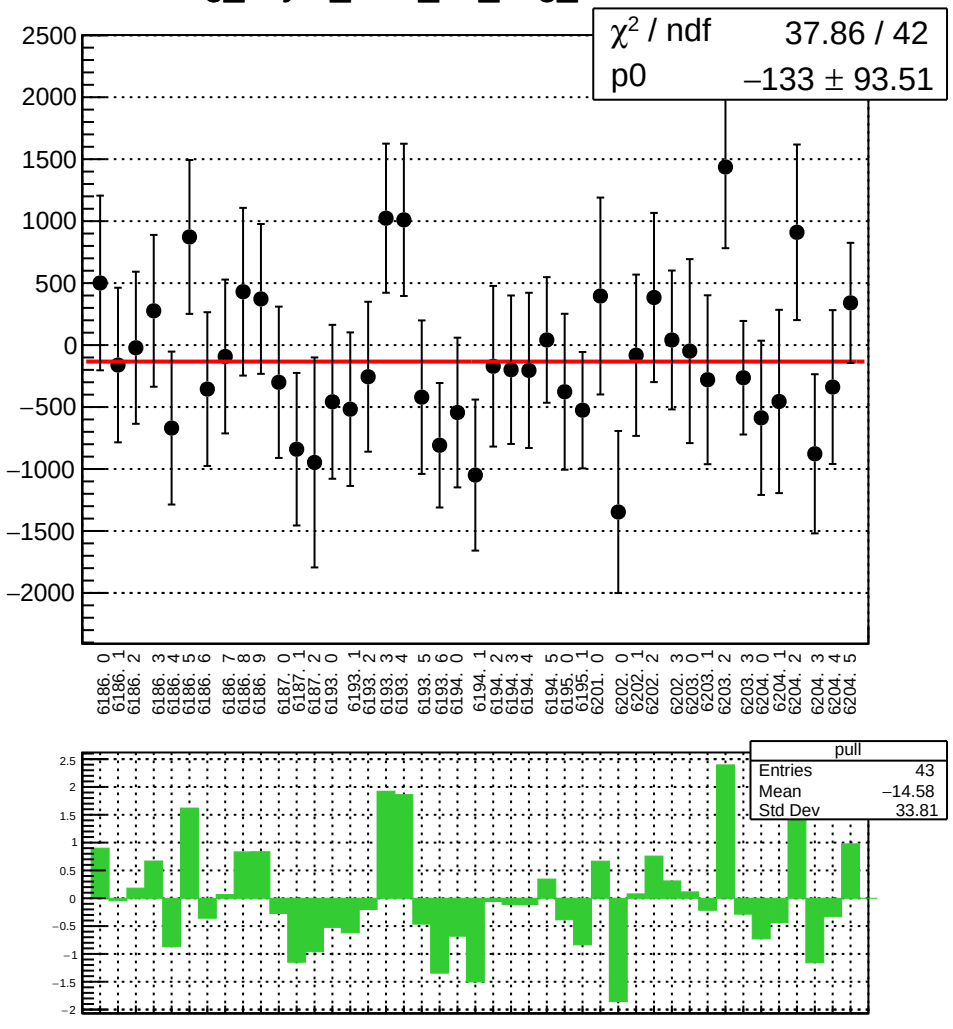

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.49 / 42
p0 −0.1016 ± 0.0451
pull
Entries 43
Mean 25.7
Std Dev 22.07
pull1D
Entries 43
Mean −0.02679
Std Dev 1.051

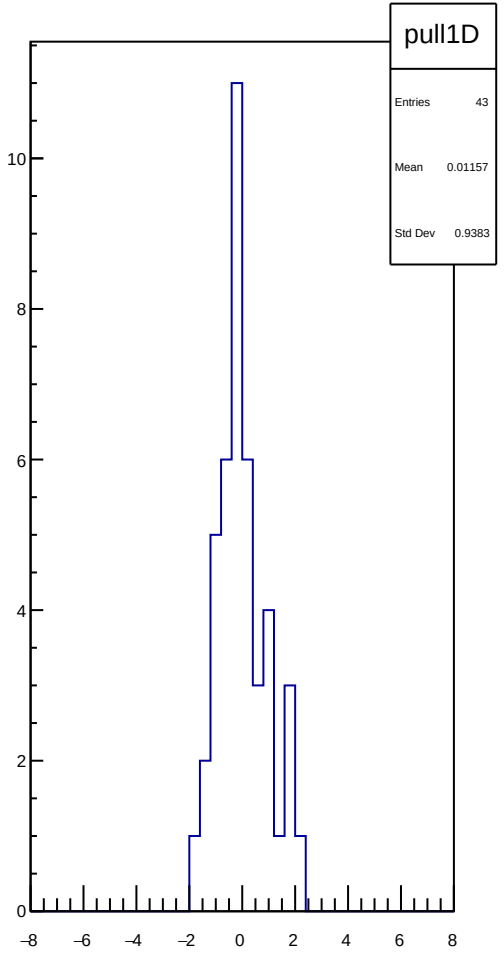

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.848e+04 / 42
p0 28.47 ± 0.03189
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

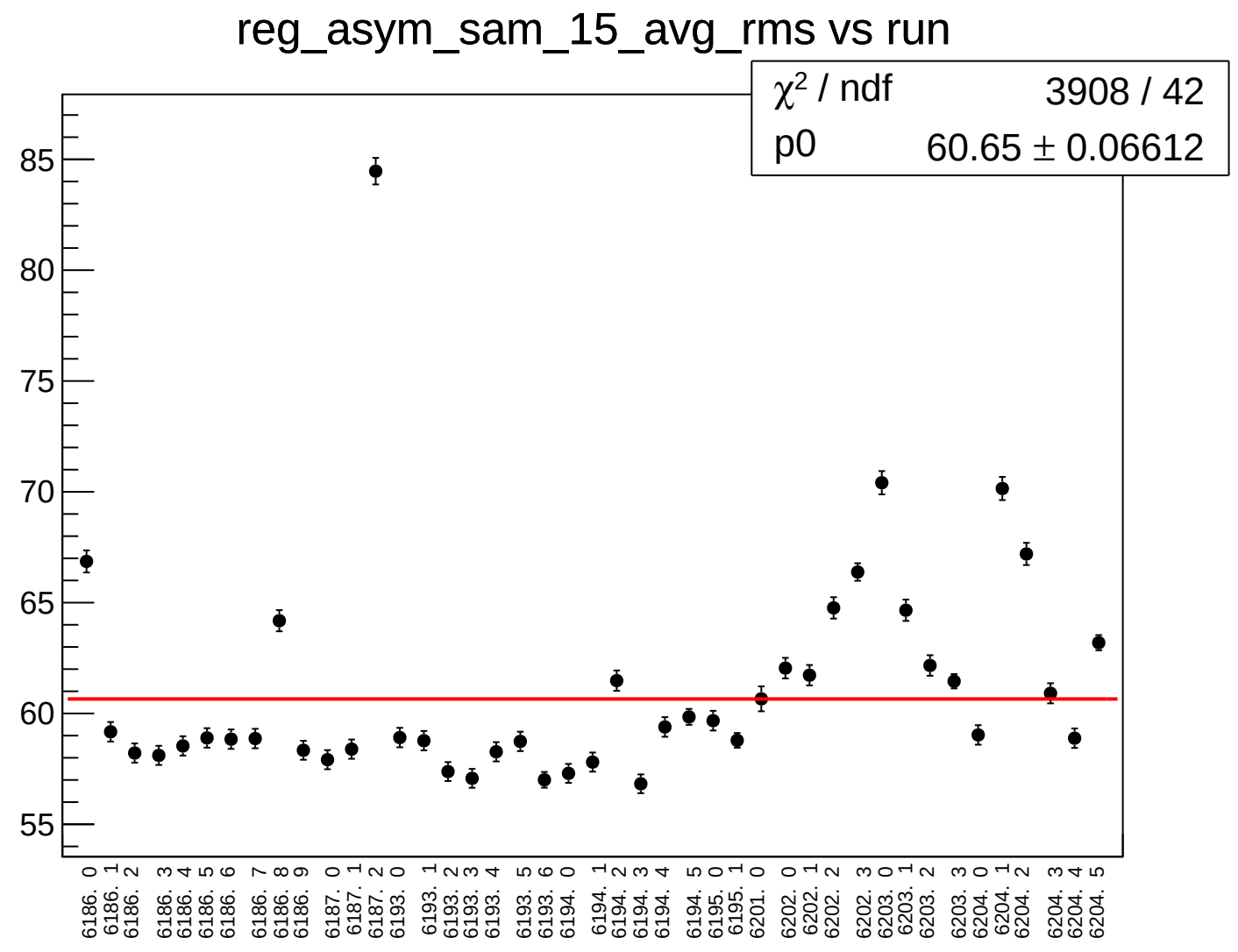

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 54.91 / 42
p0 5.26e−14 ± 6.021e−14
4
3
2
1
0
−1
−2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 36.95
Std Dev 0
2
1
0
−1
−2

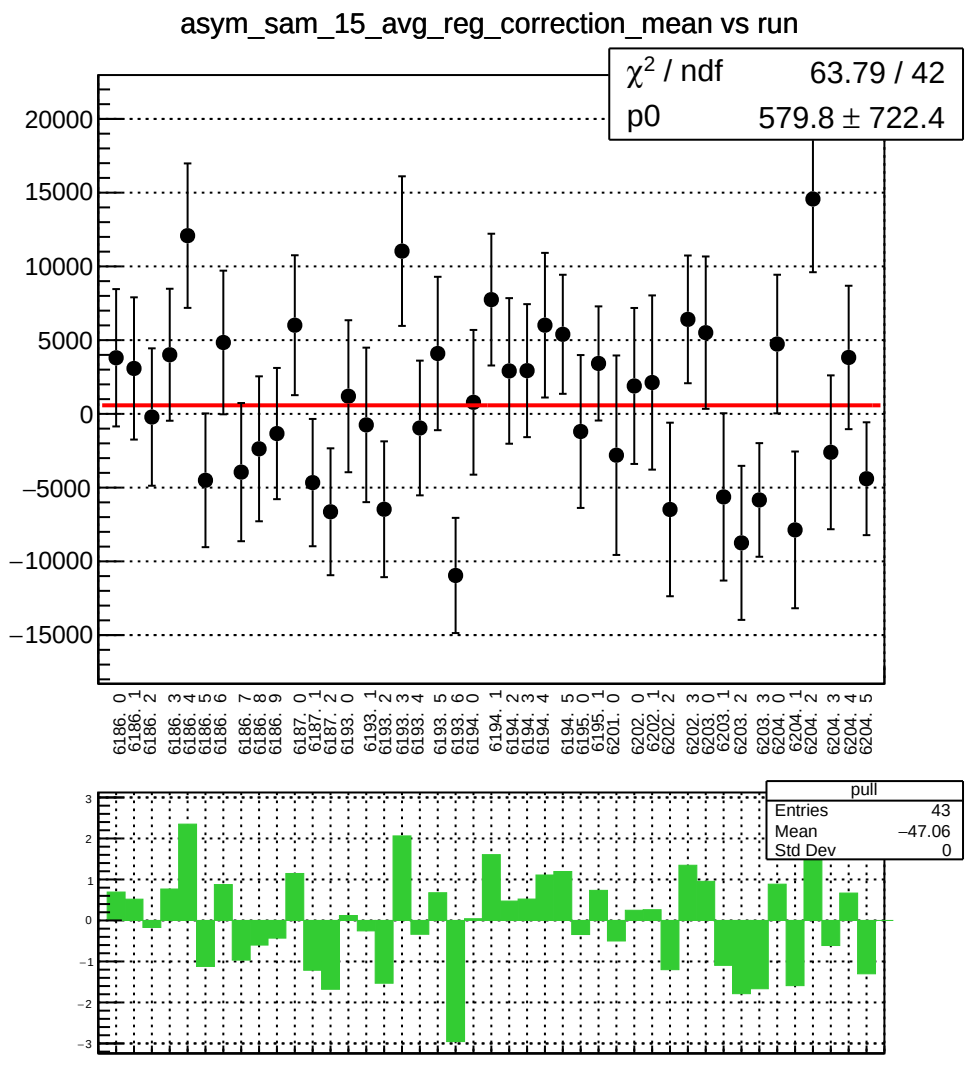

pull1D
Entries 43
Mean 0.07805
Std Dev 1.127
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

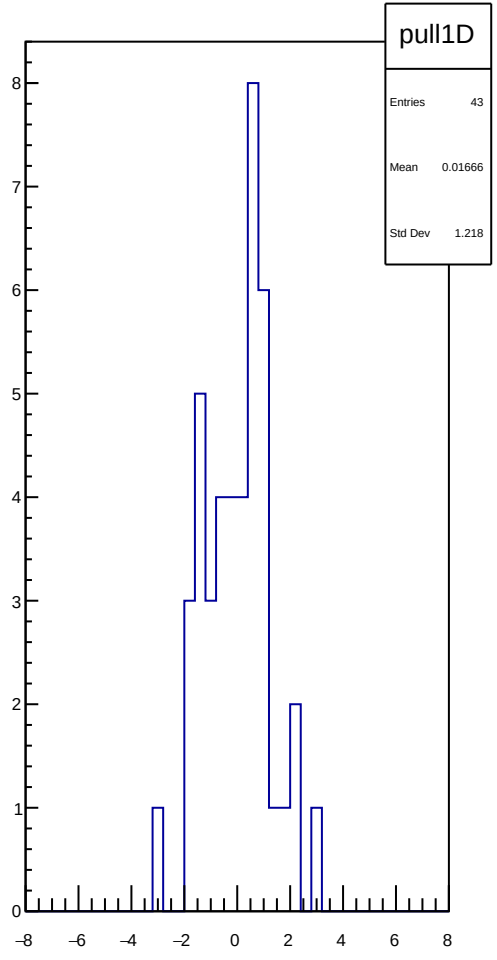

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.485e+05 / 42
p0 3.289e−11 ± 4.258e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

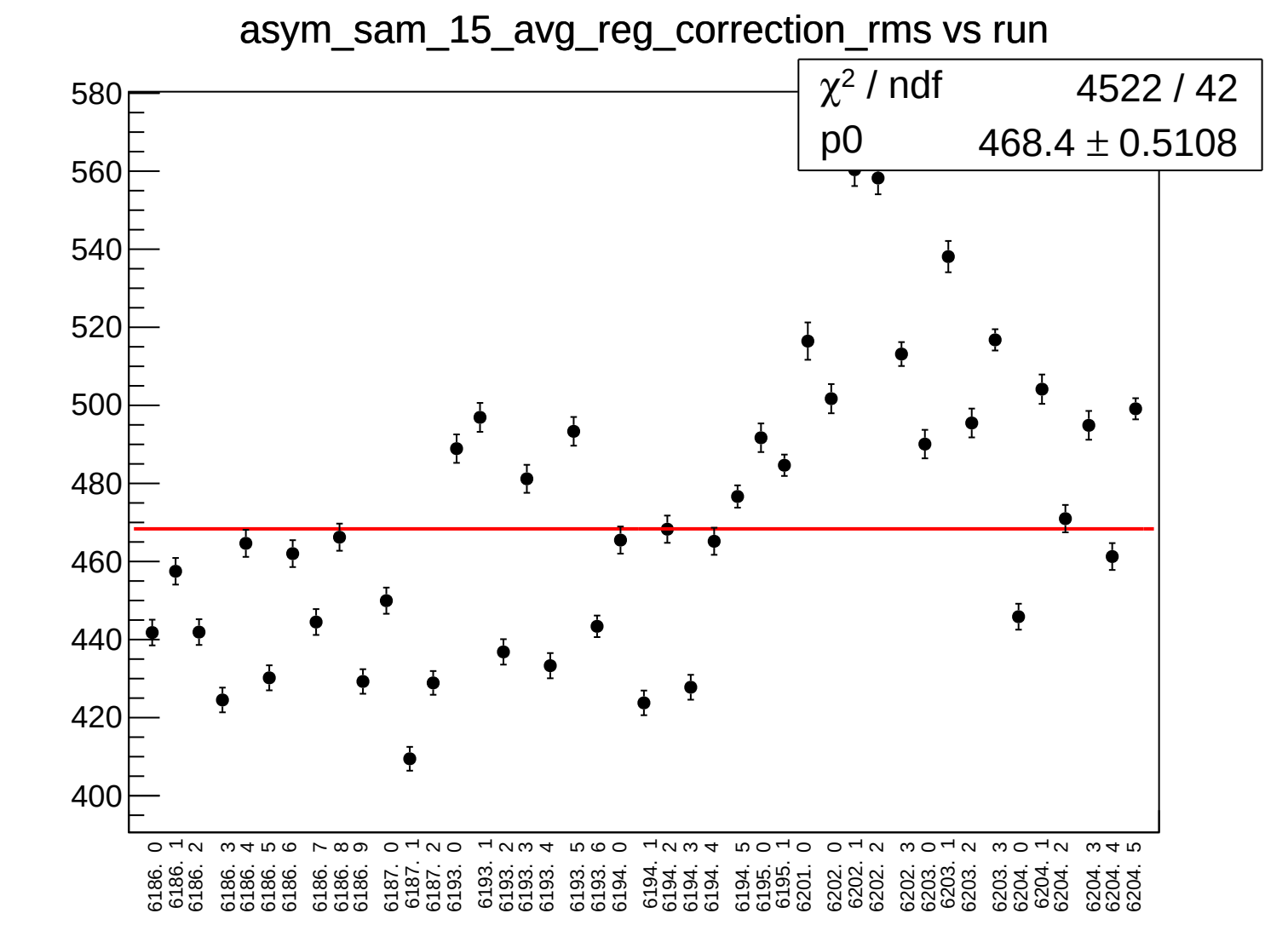

reg_asym_sam_15_avg_mean vs run
χ^2 / ndf 37.86 / 42
p0 −133 ± 93.51
pull
Entries 43
Mean −14.58
Std Dev 33.81

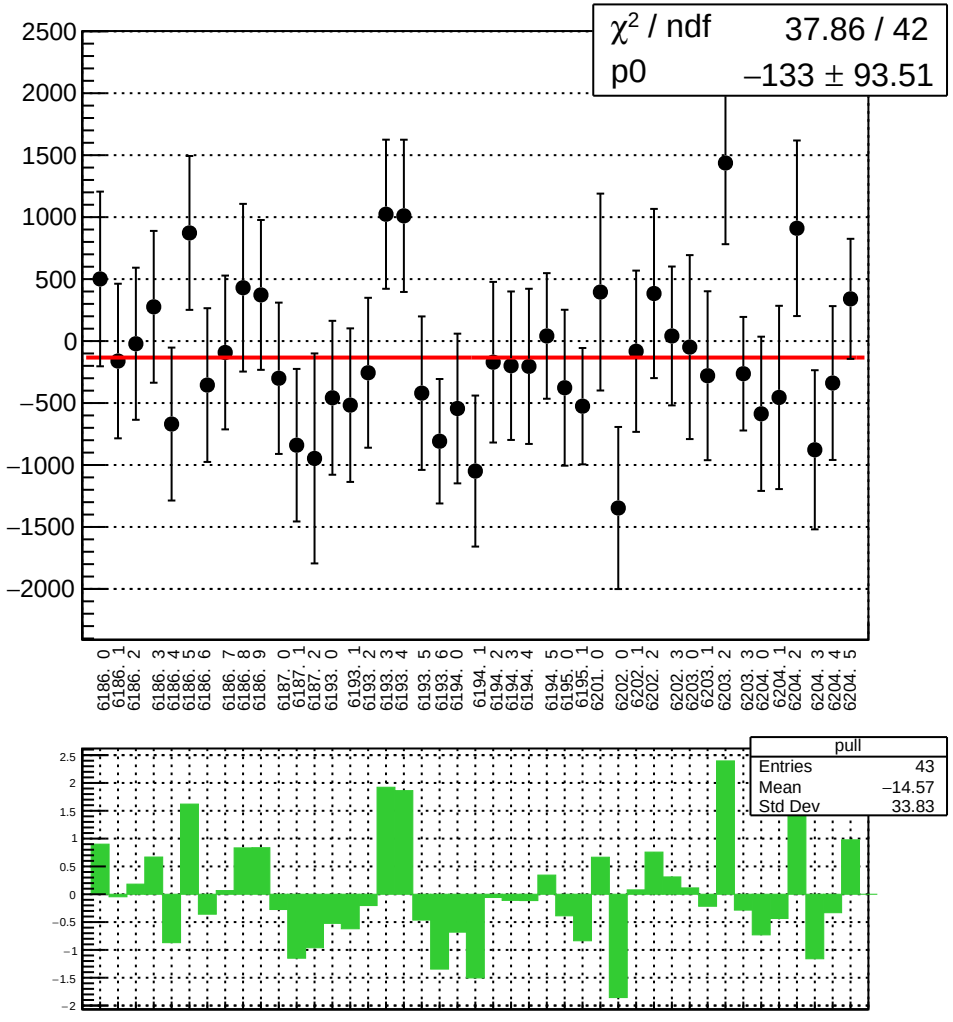

pull1D
Entries 43
Mean 0.01157
Std Dev 0.9383

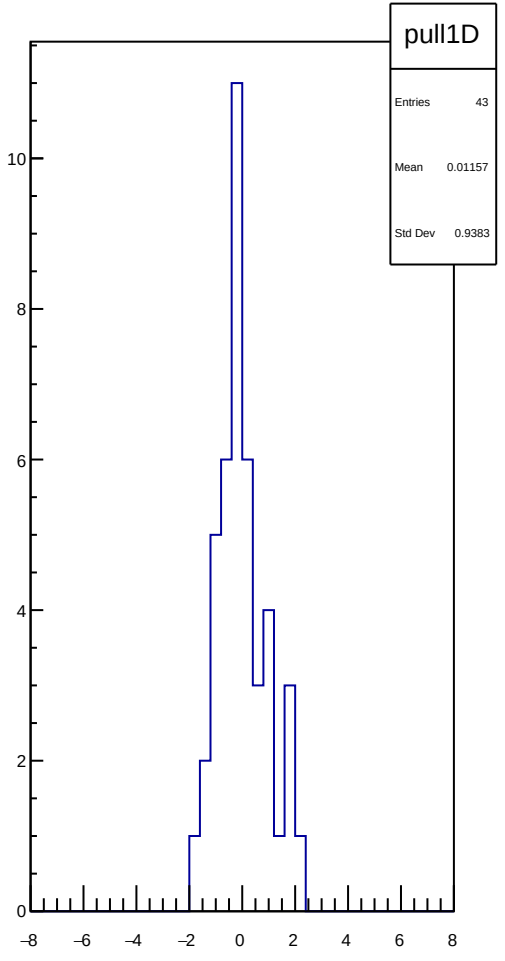

reg_asym_sam_15_avg_rms vs run
χ² / ndf 3908 / 42
p0 60.65 ± 0.06612
85
80
75
70
65
60
55
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

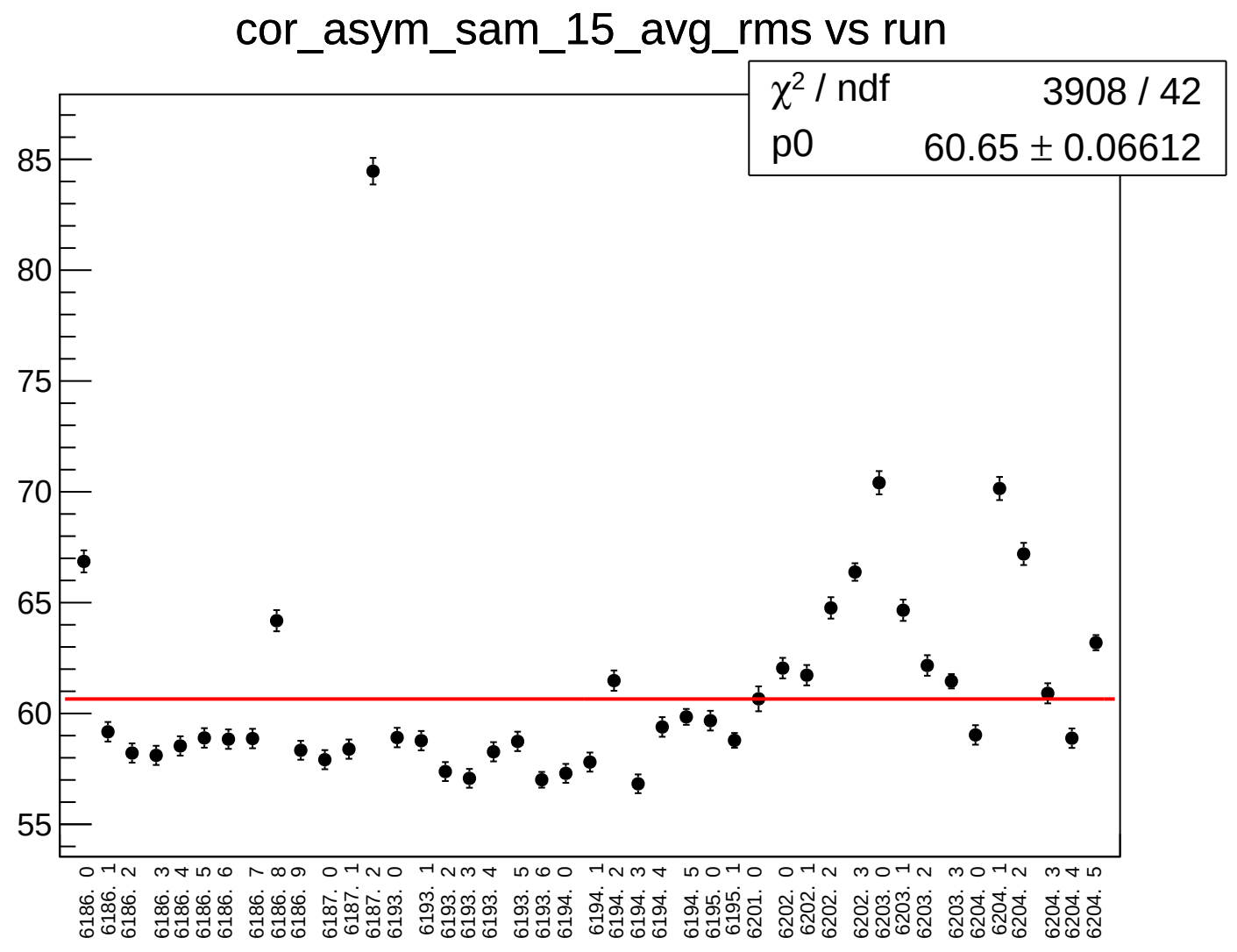

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 63.79 / 42
p0 579.8 ± 722.4
20000
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −47.06
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.01666
Std Dev 1.218
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 4522 / 42
p0 468.4 ± 0.5108
580
560
540
520
500
480
460
440
420
400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_sam_15_avg_mean vs run
χ² / ndf 37.86 / 42
p0 −133 ± 93.51
pull
Entries 43
Mean −14.57
Std Dev 33.83


pull1D
Entries 43
Mean 0.01157
Std Dev 0.9383


cor_asym_sam_15_avg_rms vs run
χ² / ndf 3908 / 42
p0 60.65 ± 0.06612
85
80
75
70
65
60
55
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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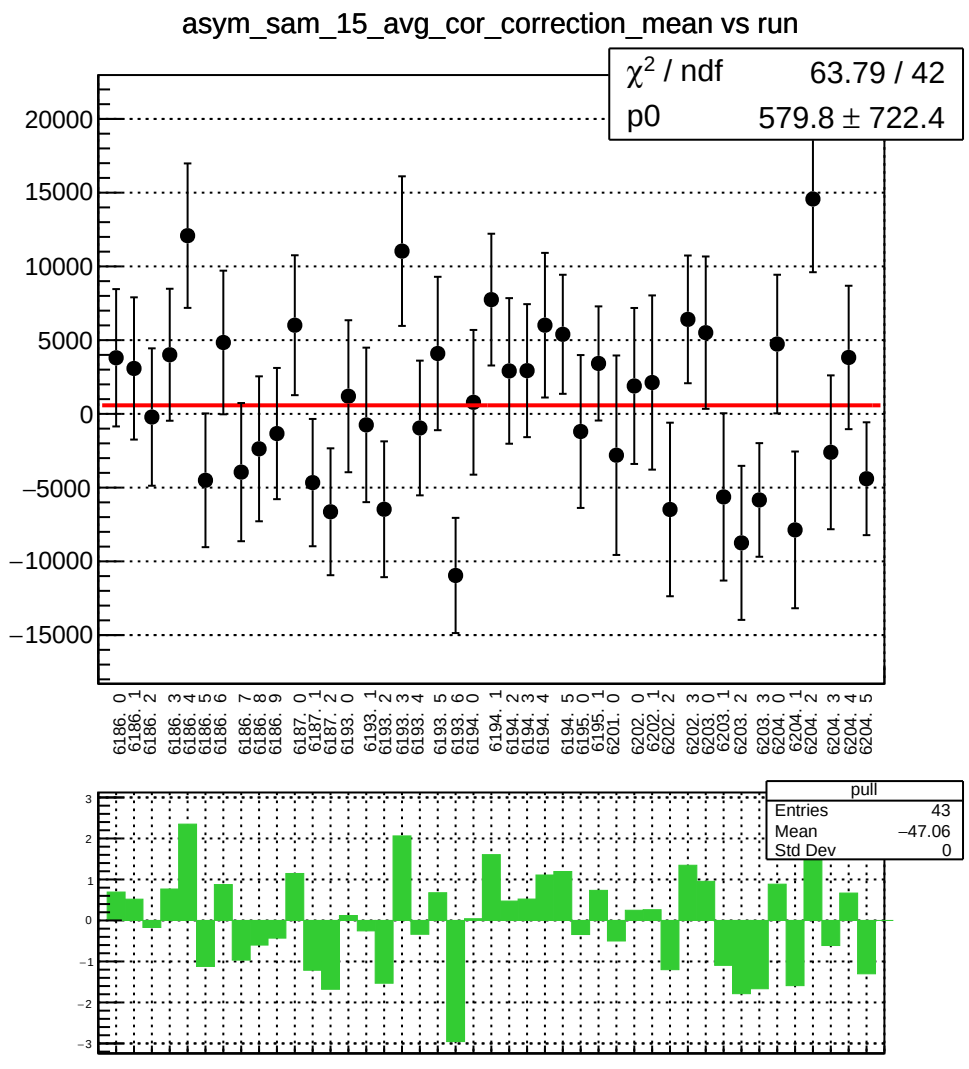
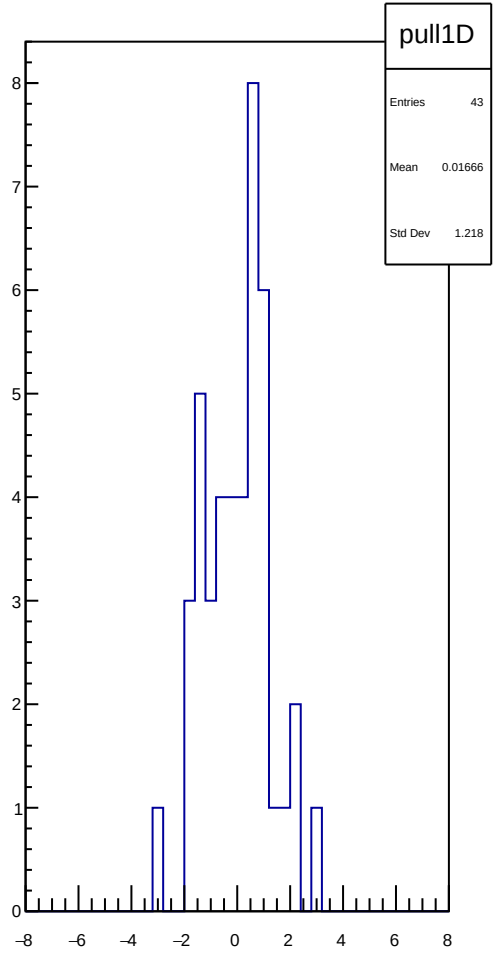
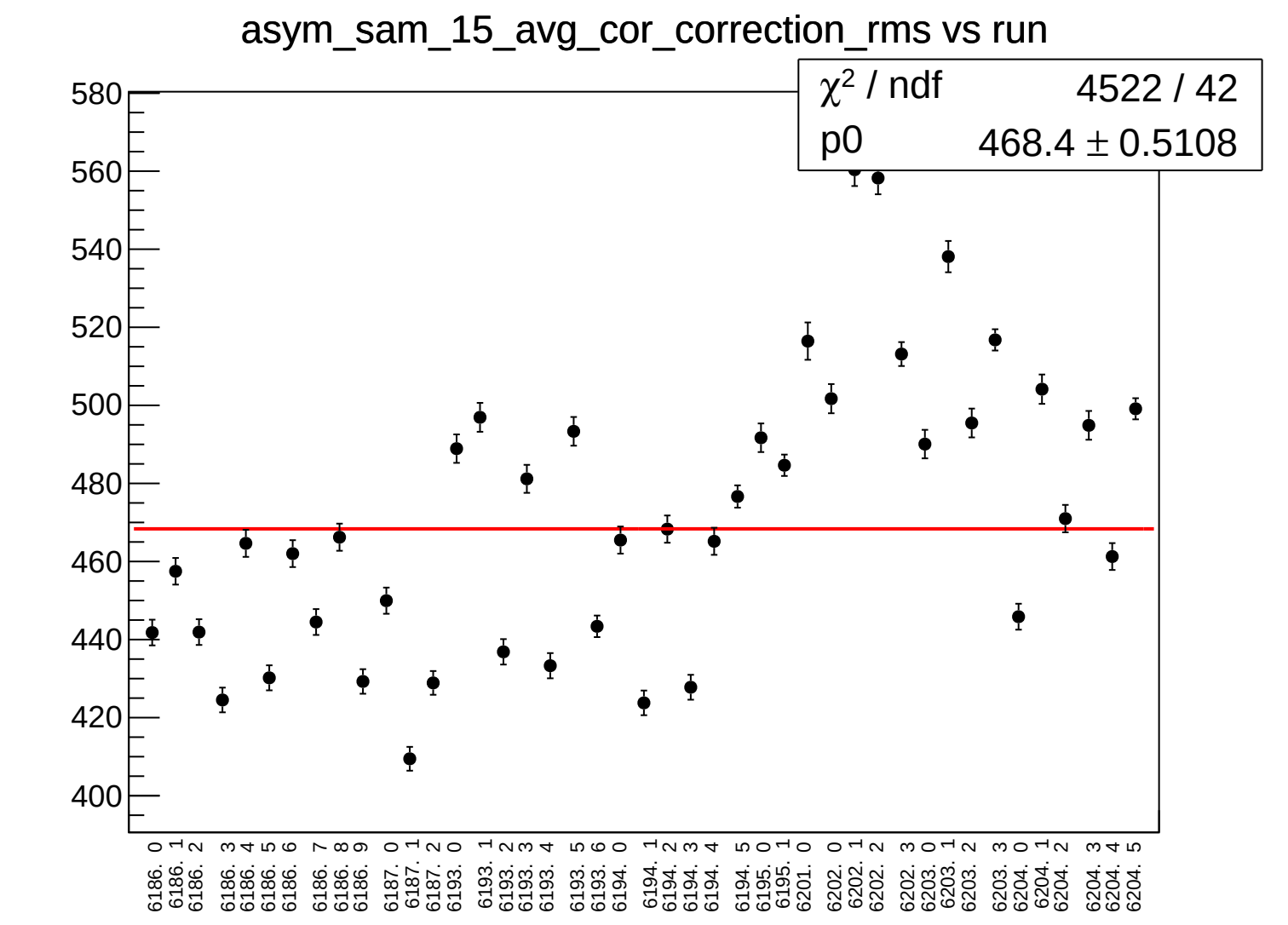
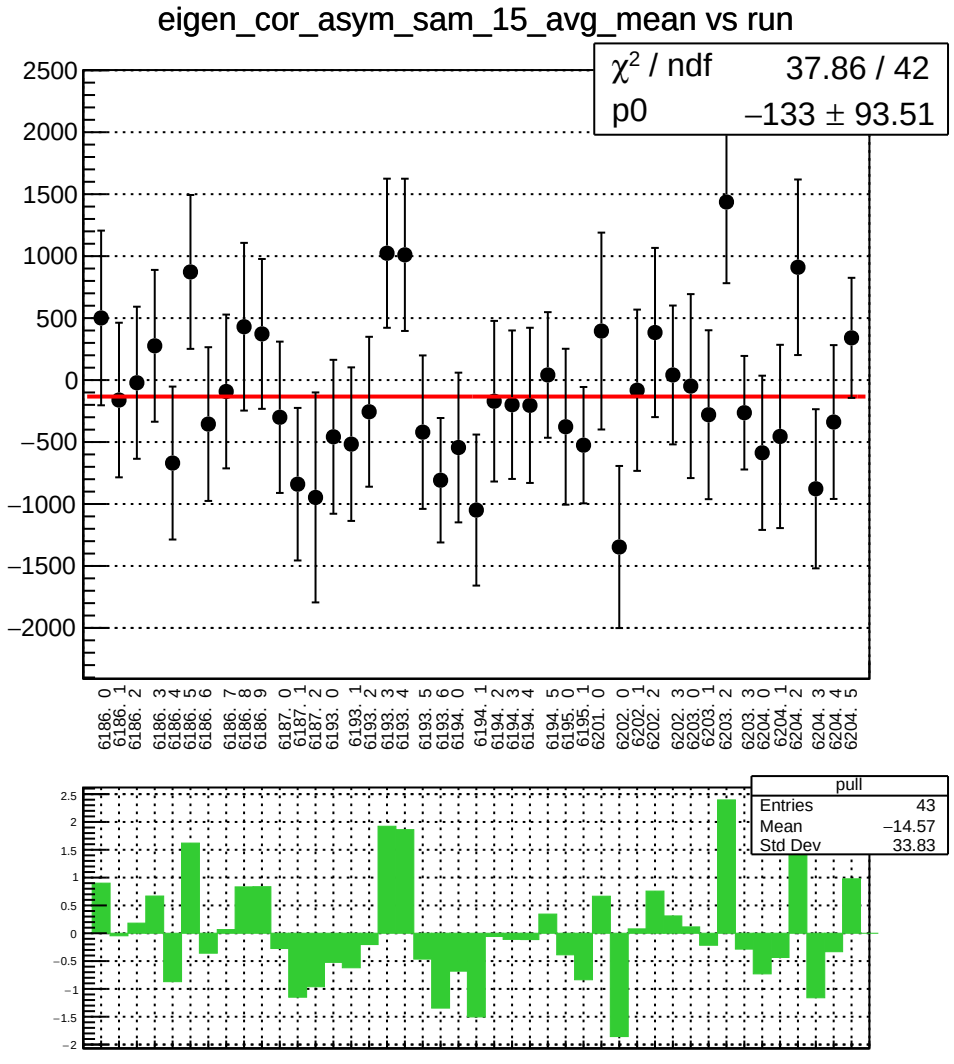
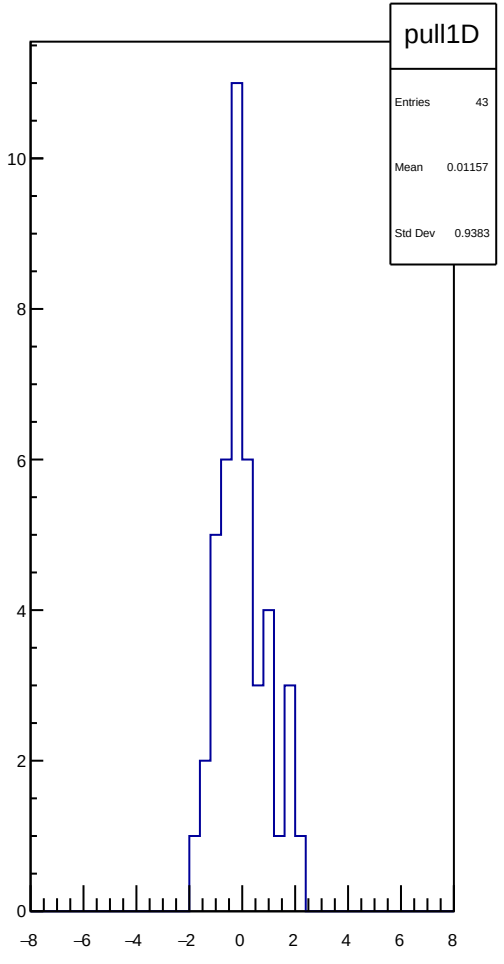
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

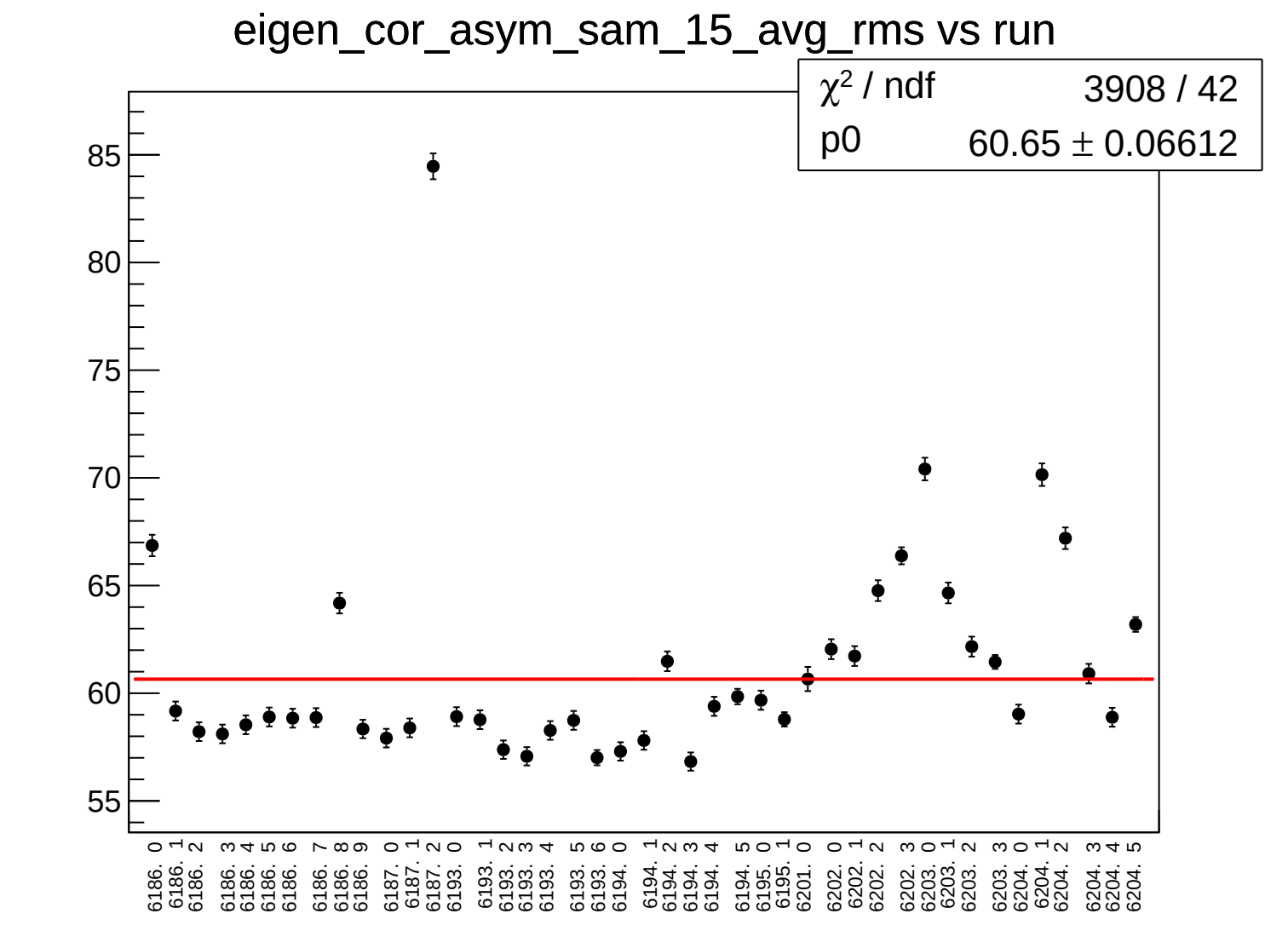

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 63.79 / 42
p0 579.8 ± 722.4
20000
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −47.06
Std Dev 0
3
2
1
0
−1
−2
−3

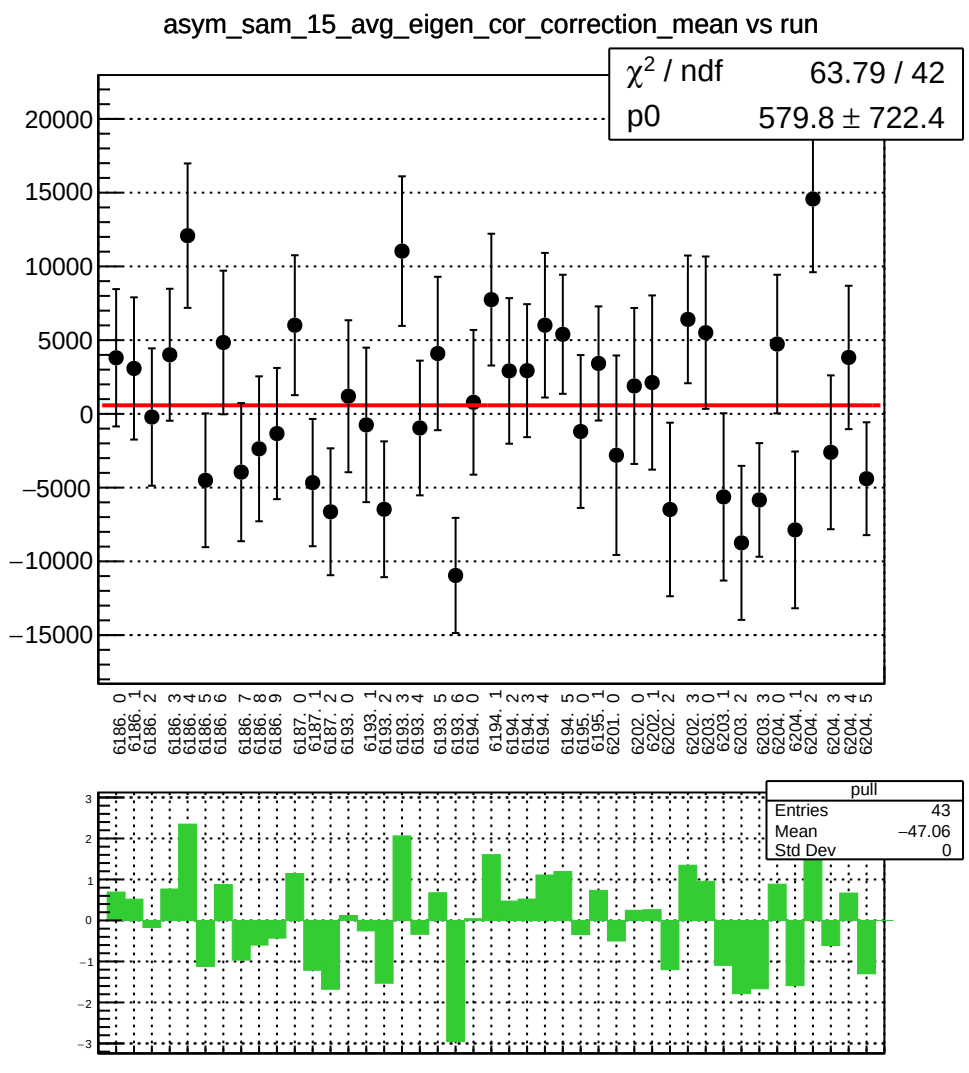

pull1D
Entries 43
Mean 0.01666
Std Dev 1.218
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

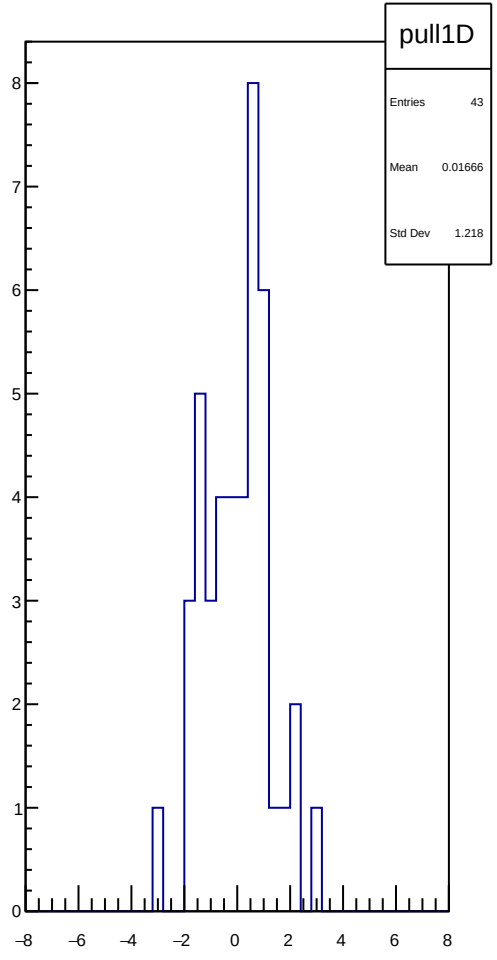

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 4522 / 42
p0 468.4 ± 0.5108
580
560
540
520
500
480
460
440
420
400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

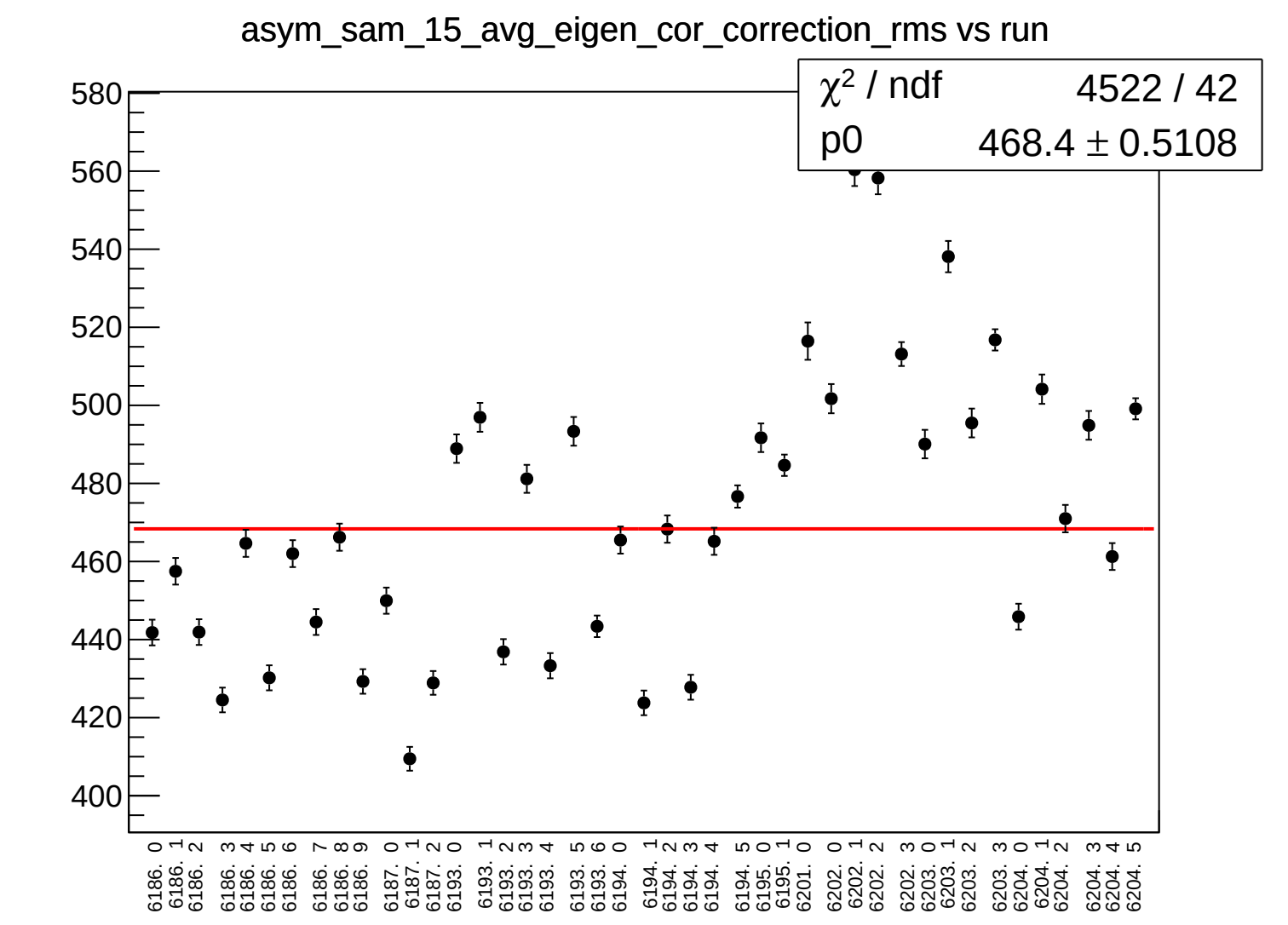

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 37.86 / 42
p0 −133 ± 93.51
pull
Entries 43
Mean −14.57
Std Dev 33.83

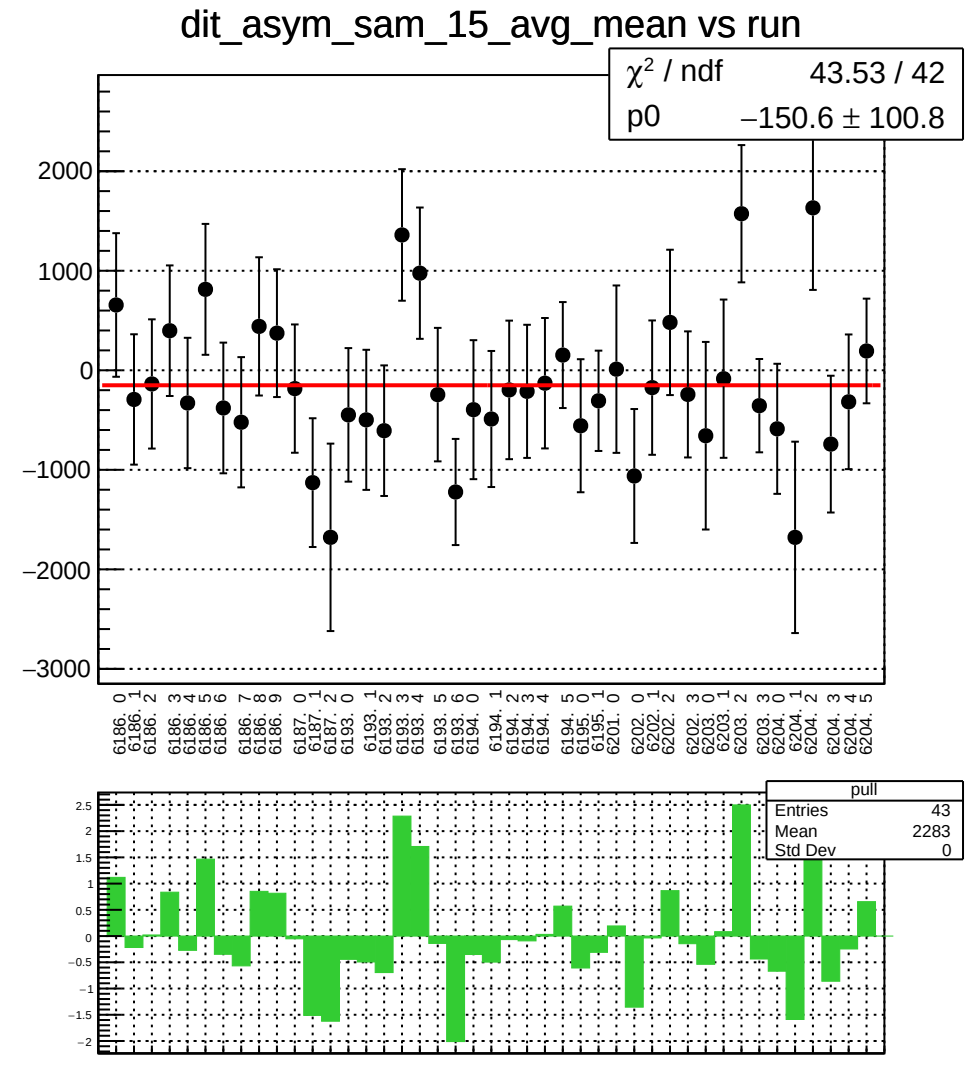

pull1D
Entries 43
Mean 0.01157
Std Dev 0.9383

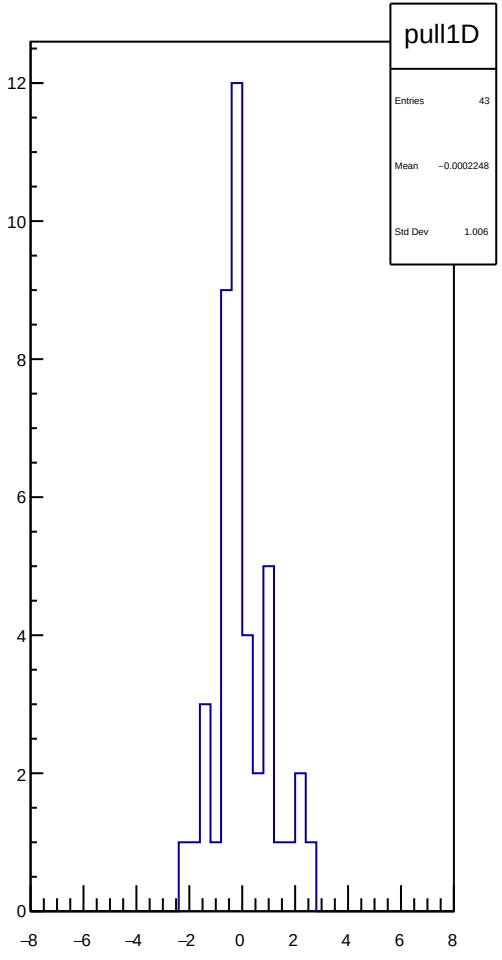

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 3908 / 42
p0 60.65 ± 0.06612
85
80
75
70
65
60
55
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

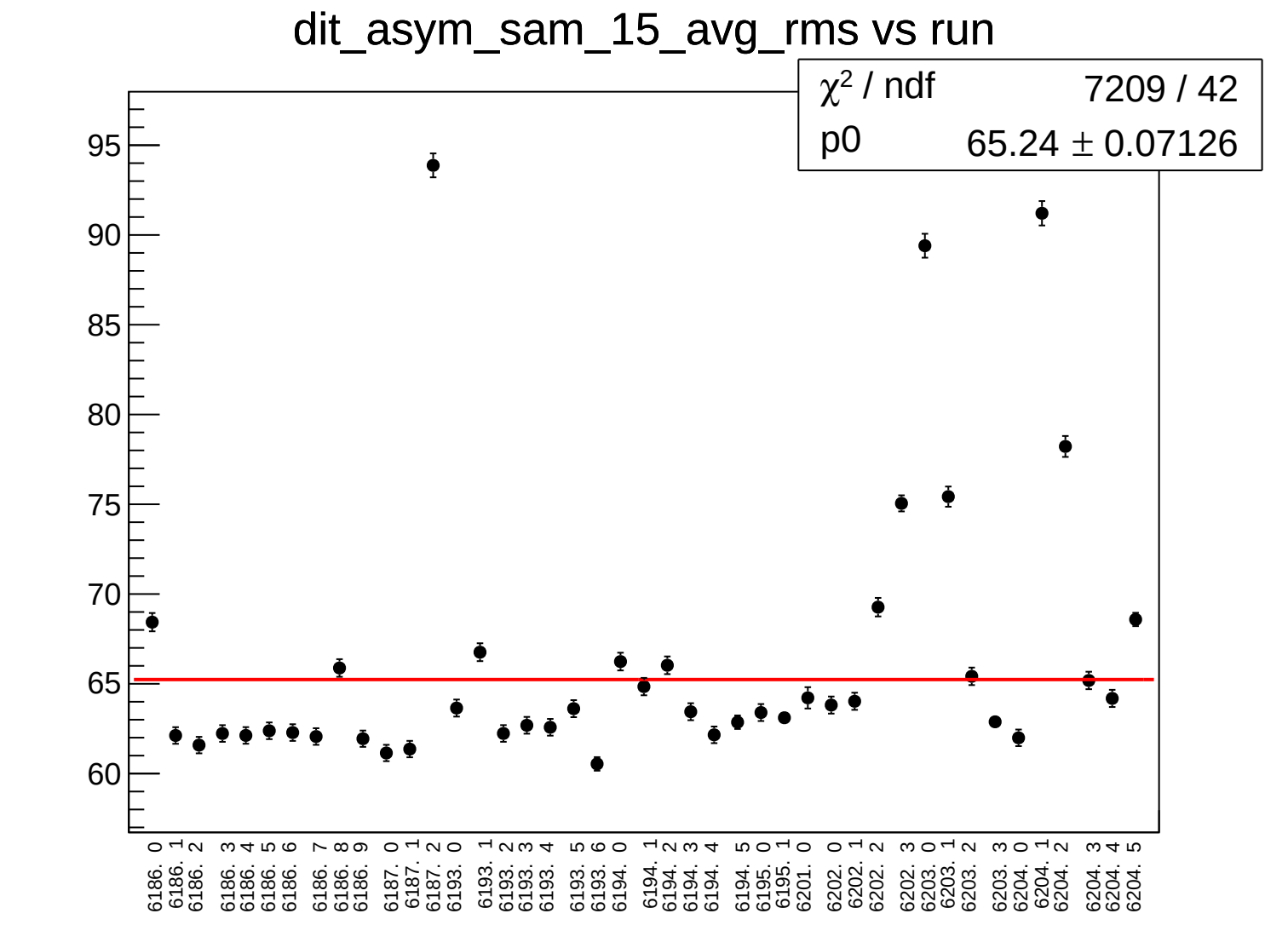

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 63.79 / 42
p0 579.8 ± 722.4
20000
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −47.06
Std Dev 0
3
2
1
0
−1
−2
−3

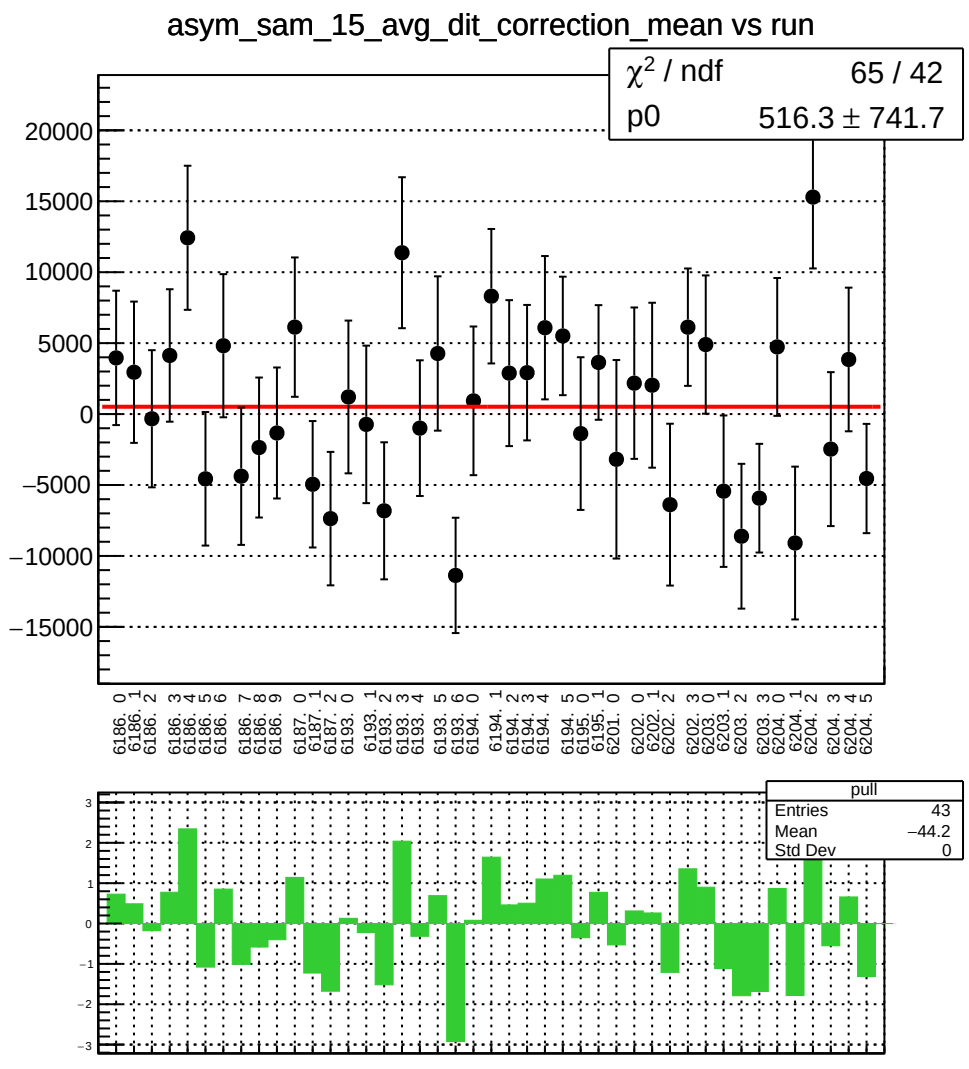

pull1D
Entries 43
Mean 0.01666
Std Dev 1.218
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

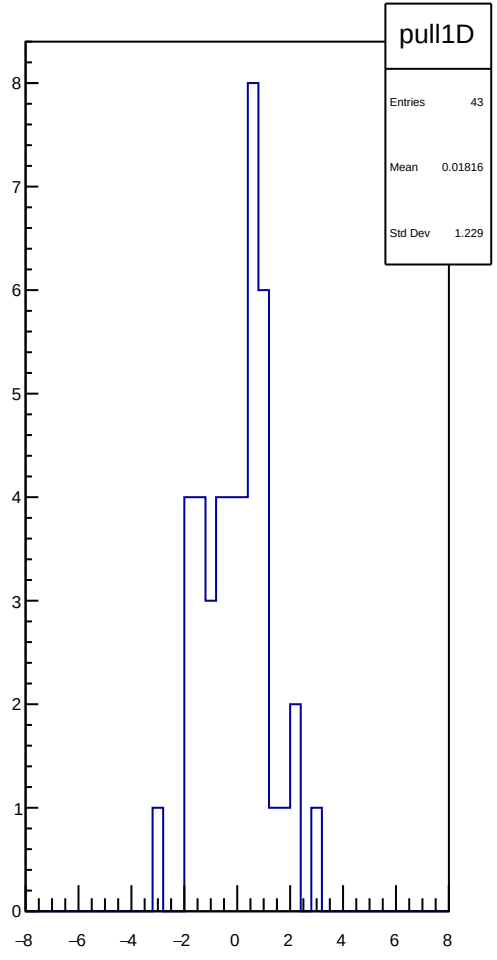

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 4522 / 42
p0 468.4 ± 0.5108
580
560
540
520
500
480
460
440
420
400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

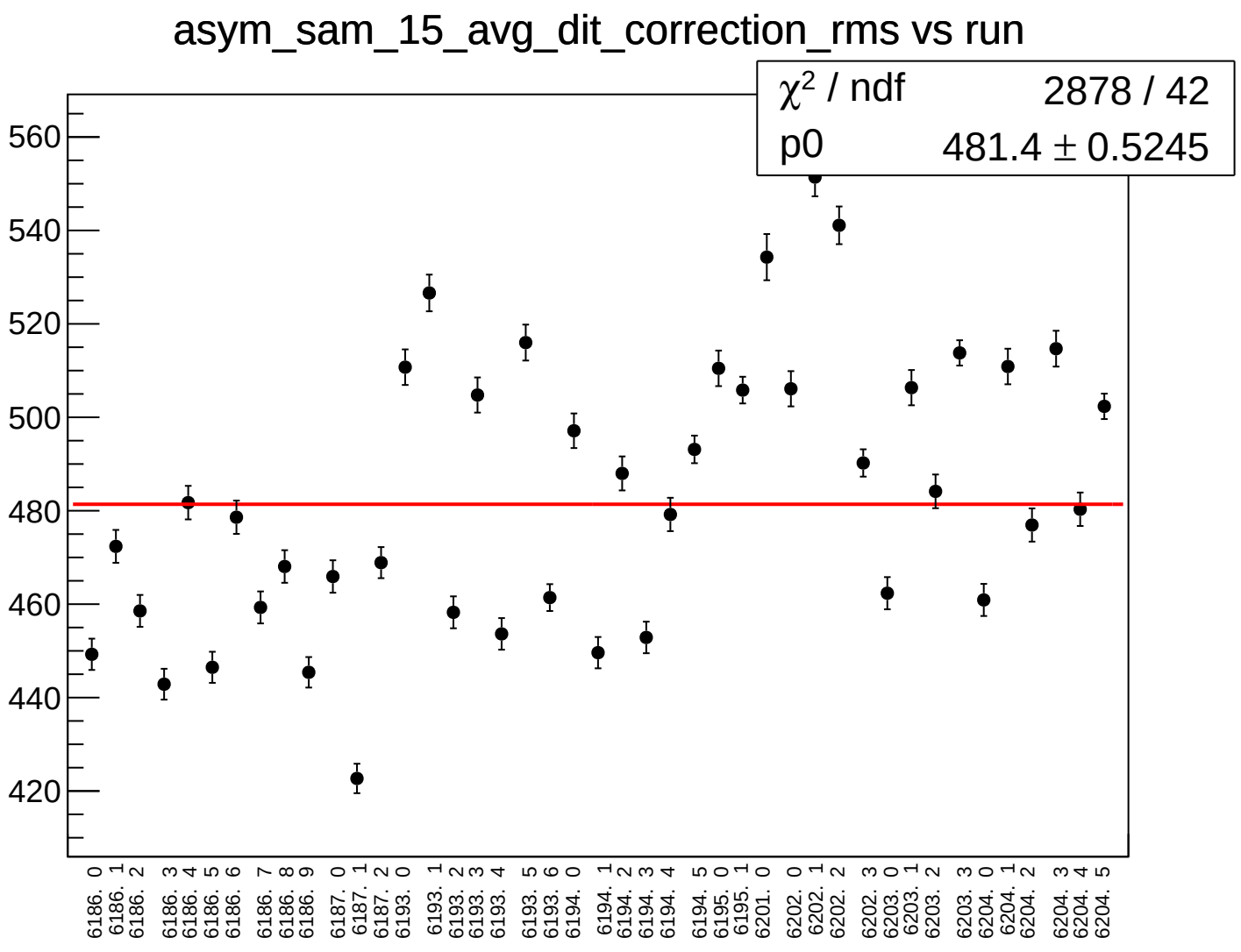

dit_asym_sam_15_avg_mean vs run
χ² / ndf 43.53 / 42
p0 −150.6 ± 100.8
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2283
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

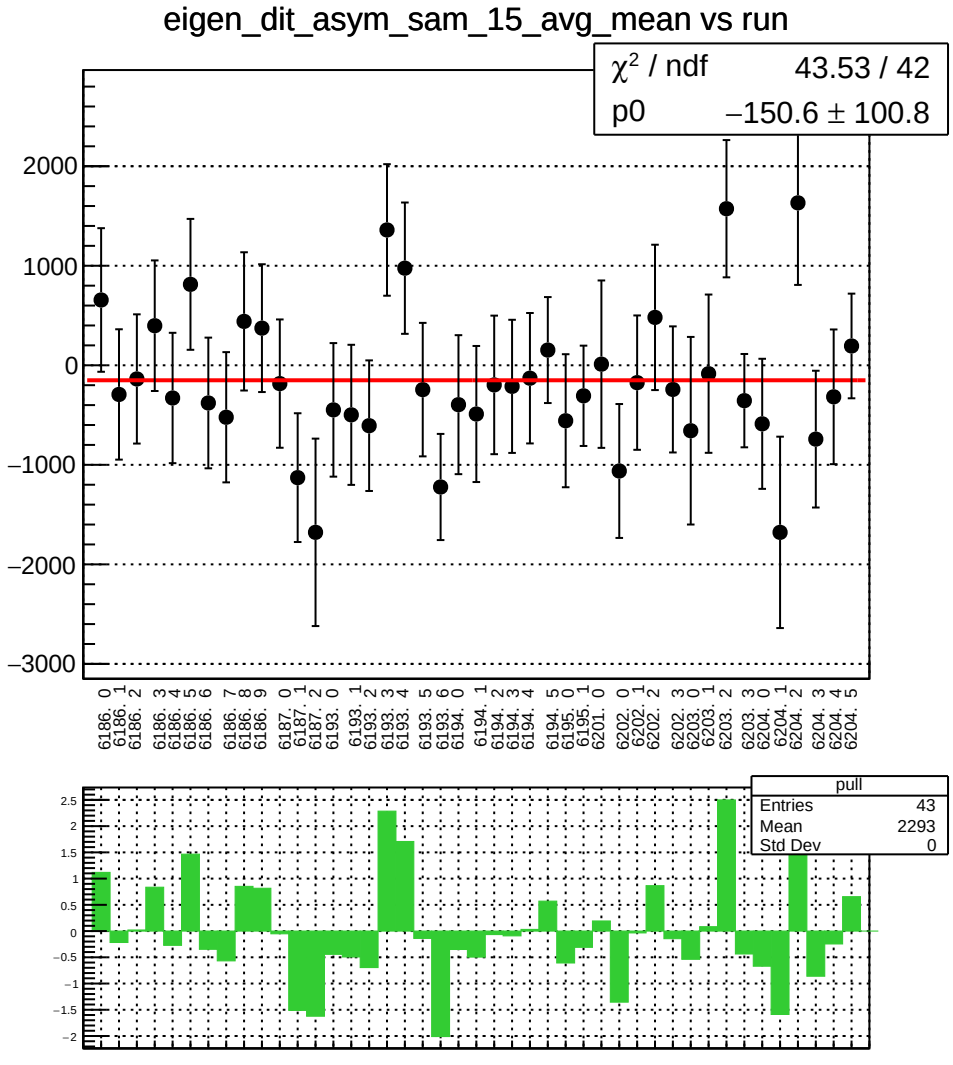

pull1D
Entries 43
Mean −0.0002248
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

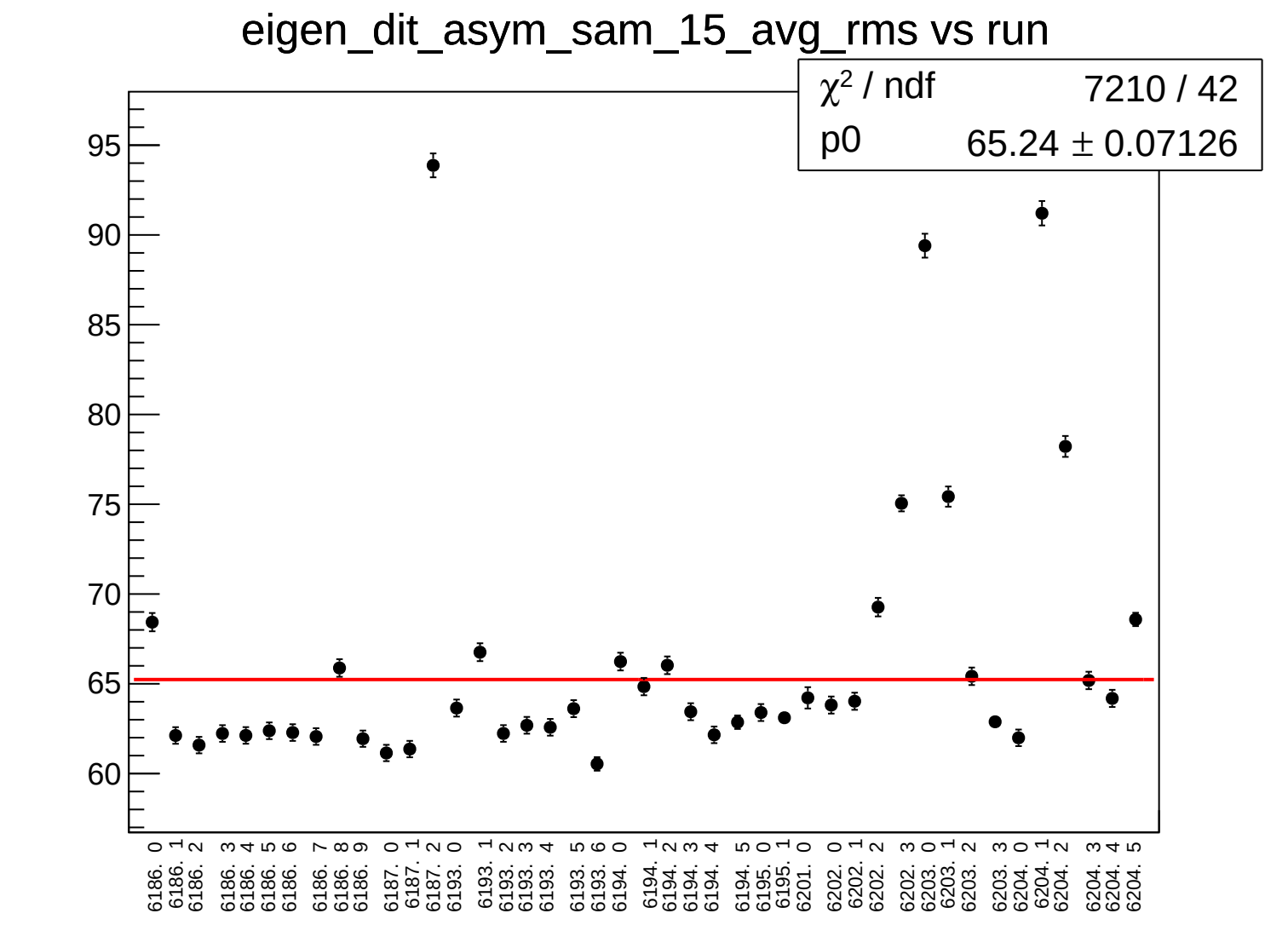

dit_asym_sam_15_avg_rms vs run
χ² / ndf 7209 / 42
p0 65.24 ± 0.07126
95
90
85
80
75
70
65
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

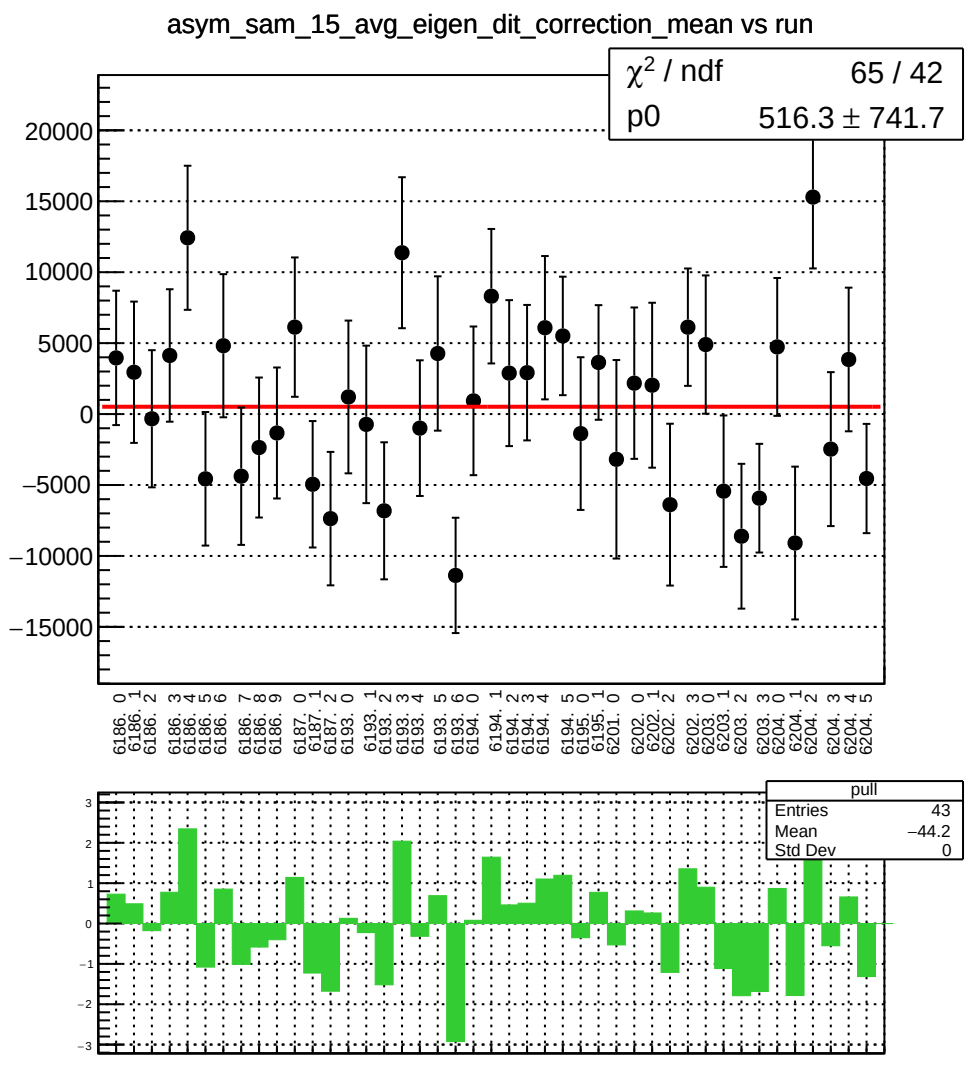

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 65 / 42
p0 516.3 ± 741.7
20000
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −44.2
Std Dev 0
3
2
1
0
−1
−2
−3

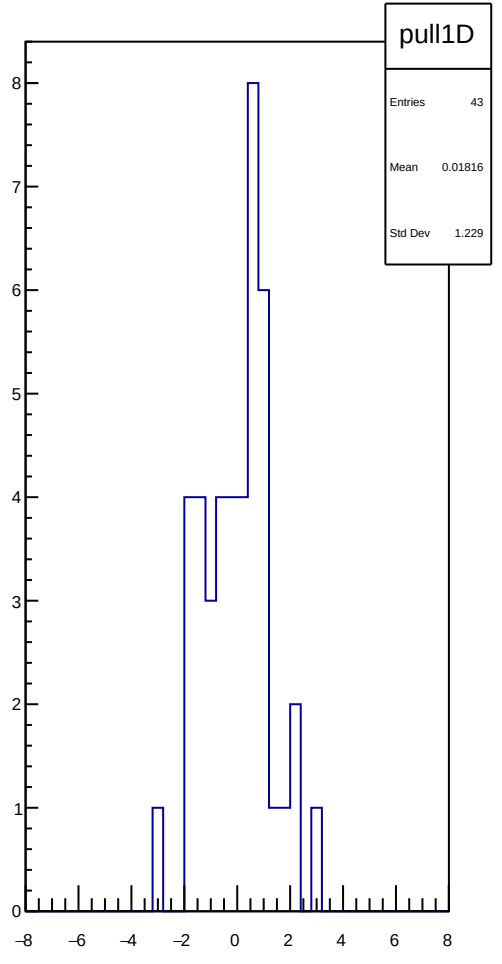

pull1D
Entries 43
Mean 0.01816
Std Dev 1.229
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

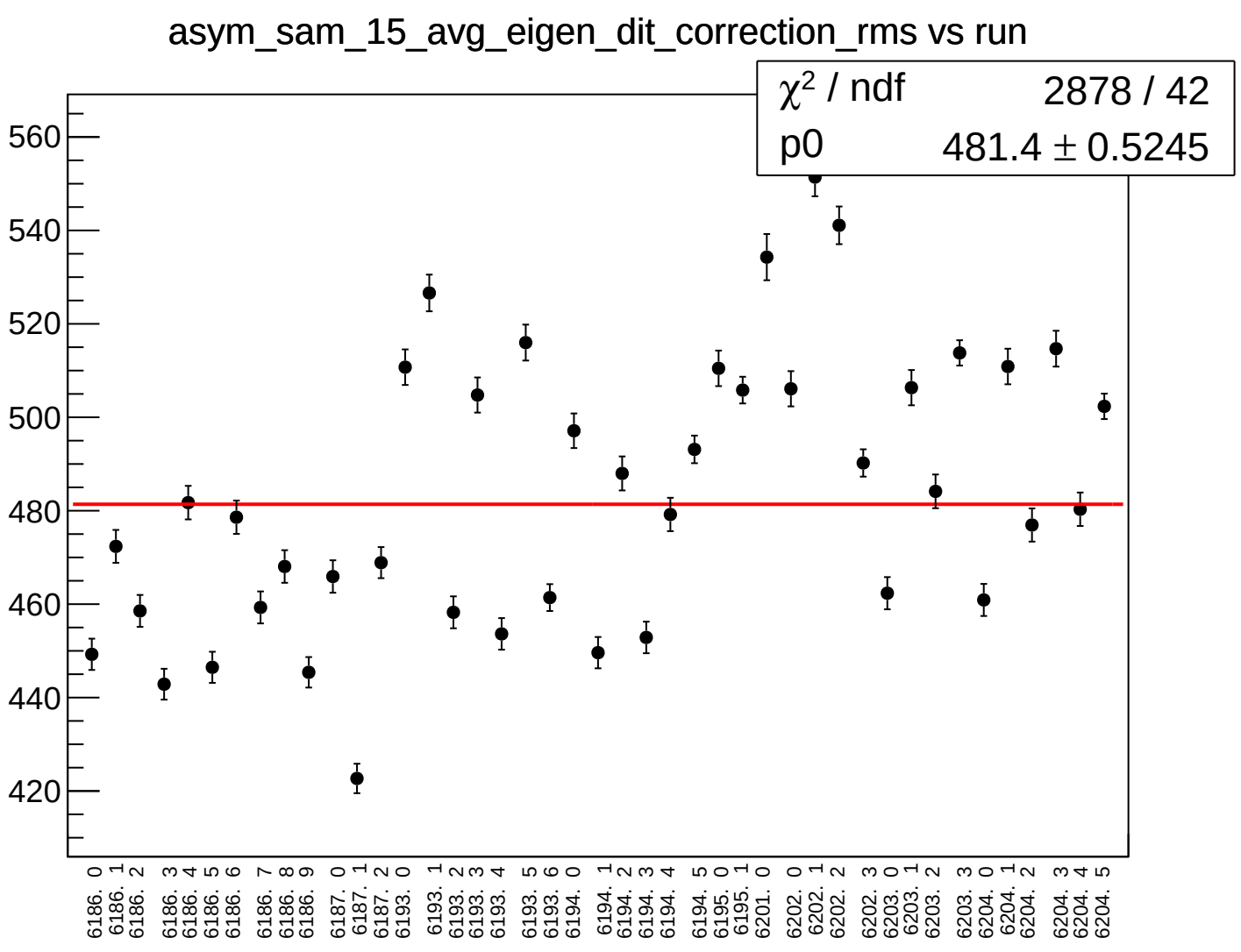

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 2878 / 42
p0 481.4 ± 0.5245
560
540
520
500
480
460
440
420
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

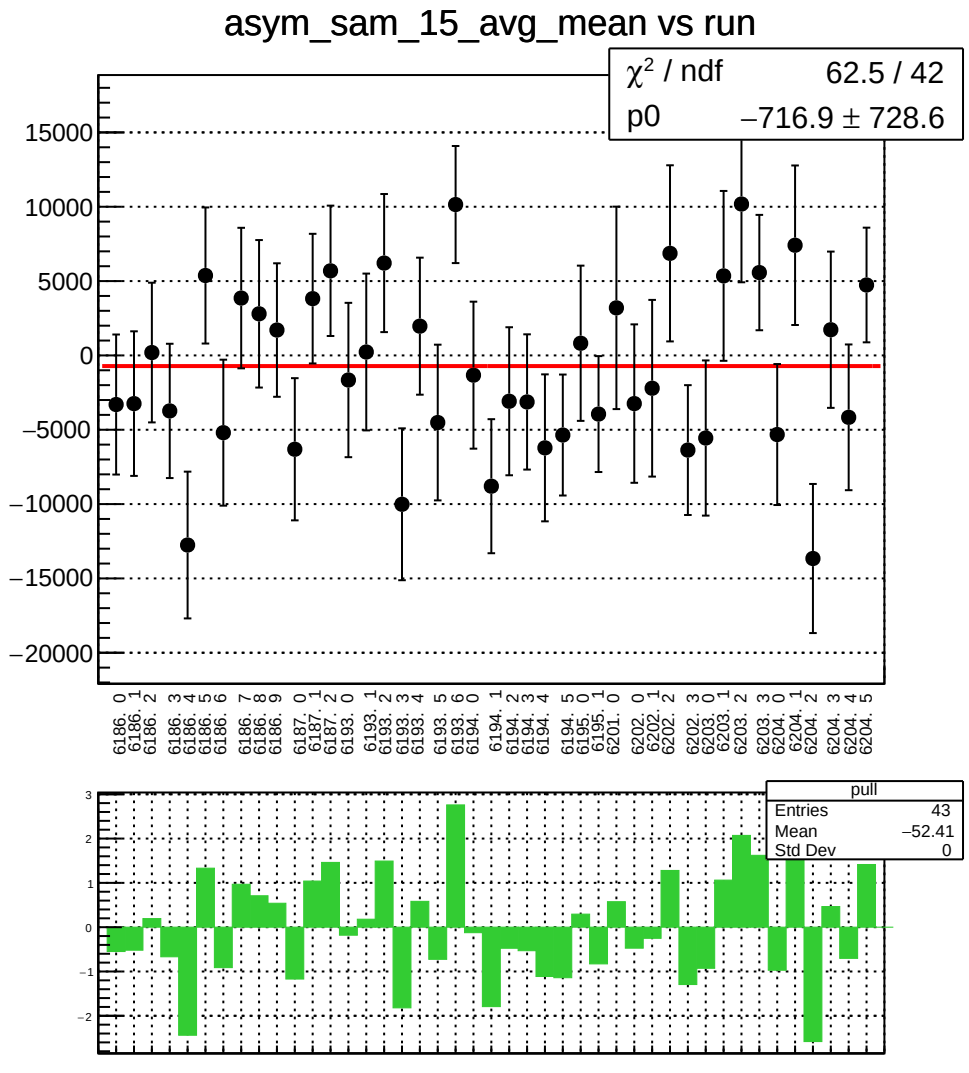

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 43.53 / 42
p0 −150.6 ± 100.8
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2293
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.0002238
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

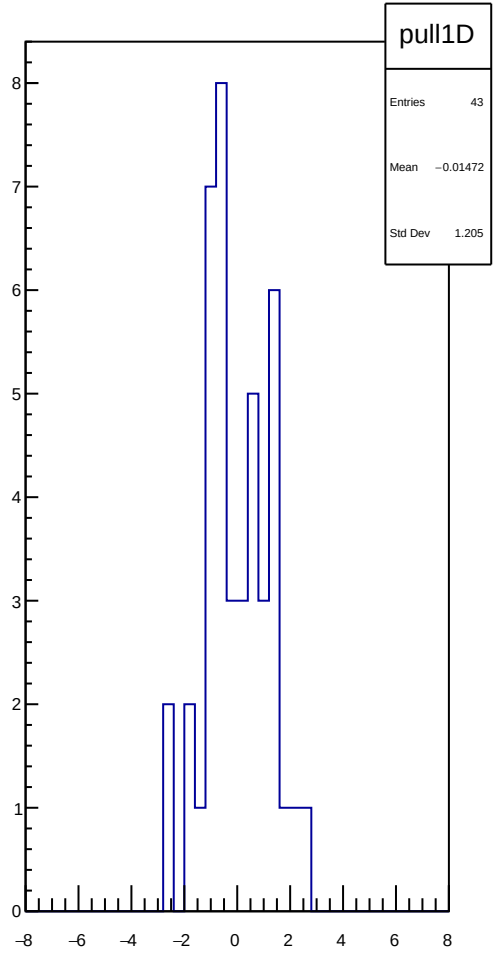

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 7210 / 42
p0 65.24 ± 0.07126
95
90
85
80
75
70
65
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

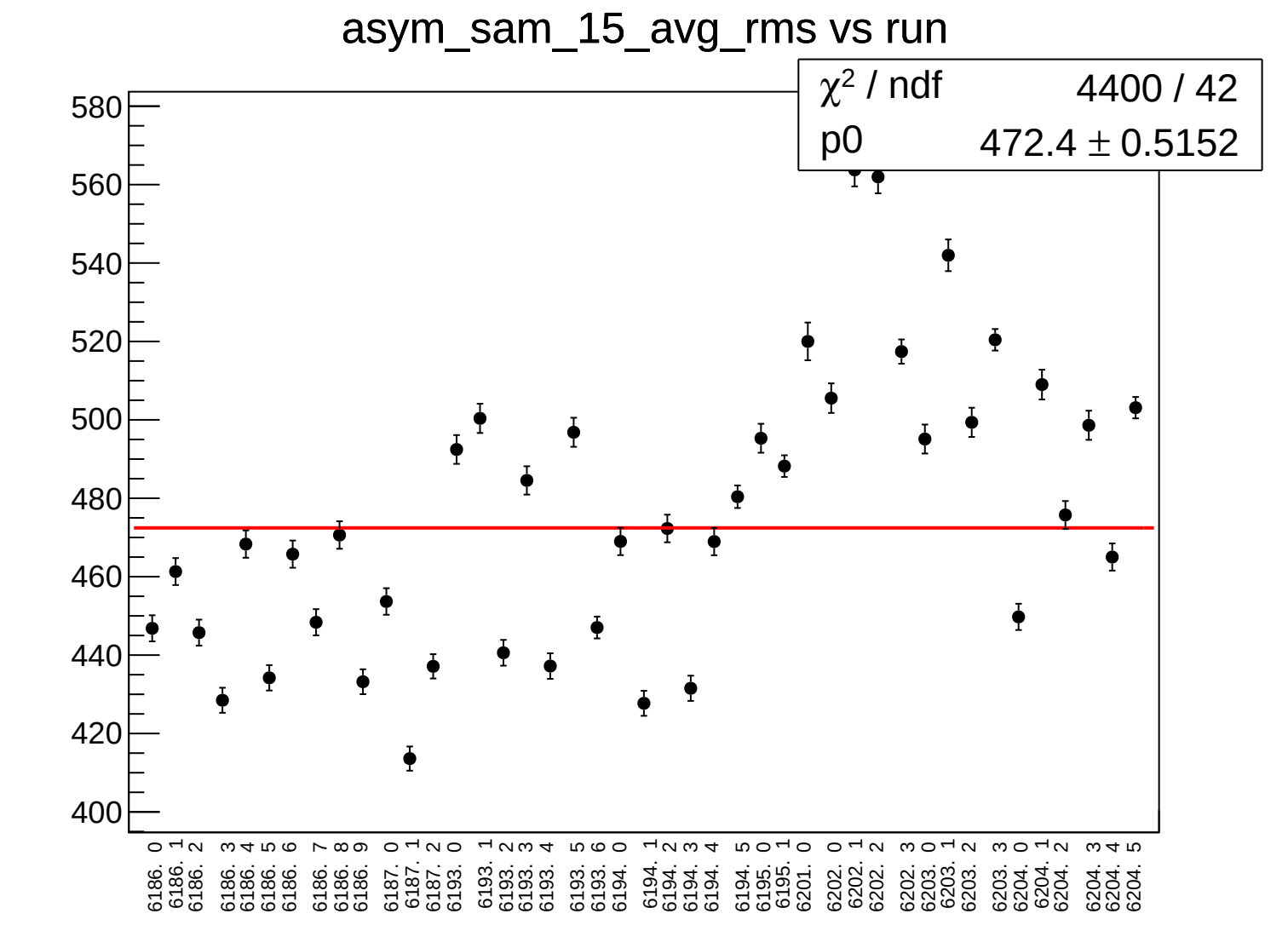

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 65 / 42
p0 516.3 ± 741.7
20000
15000
10000
5000
0
−5000
−10000
−15000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −44.2
Std Dev 0
3
2
1
0
−1
−2
−3

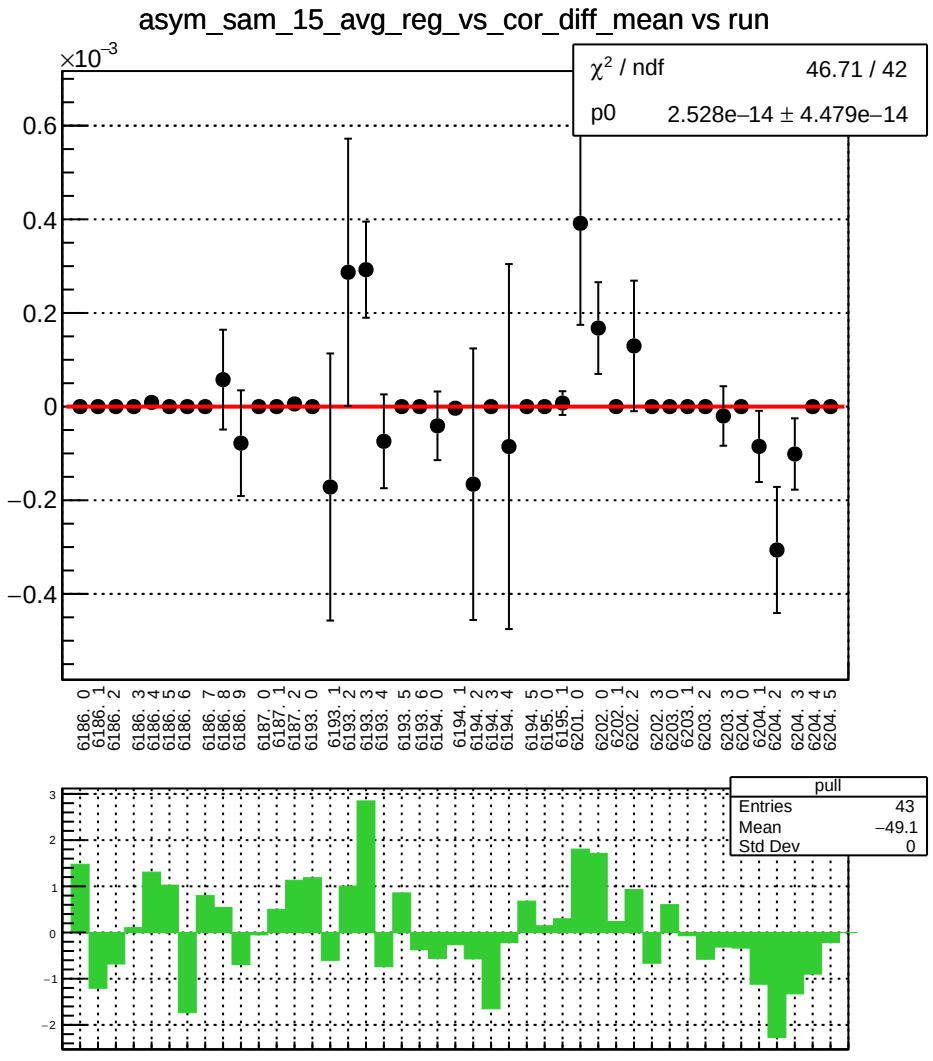

pull1D
Entries 43
Mean 0.01816
Std Dev 1.229
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

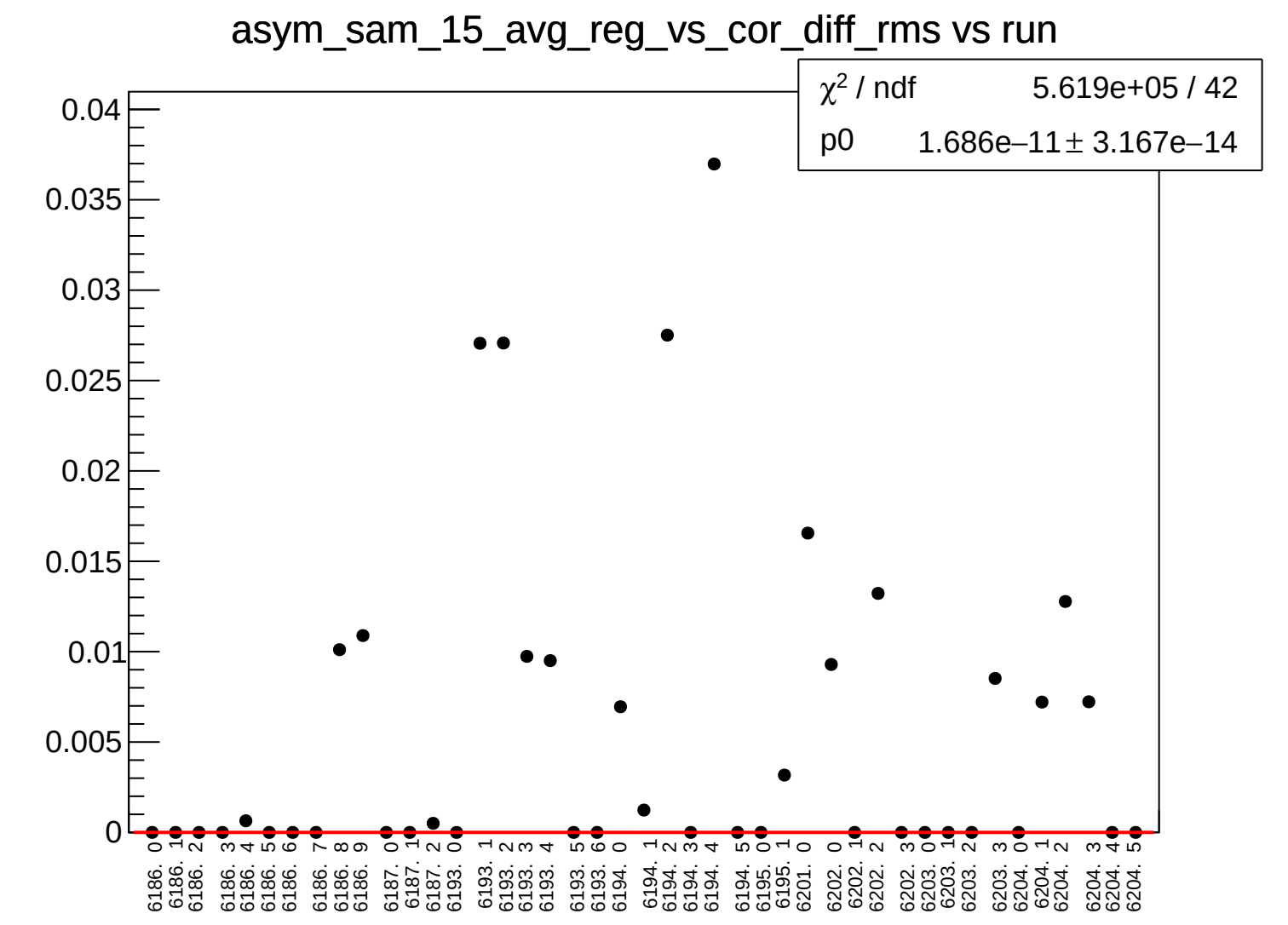

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 2878 / 42
p0 481.4 ± 0.5245
560
540
520
500
480
460
440
420
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

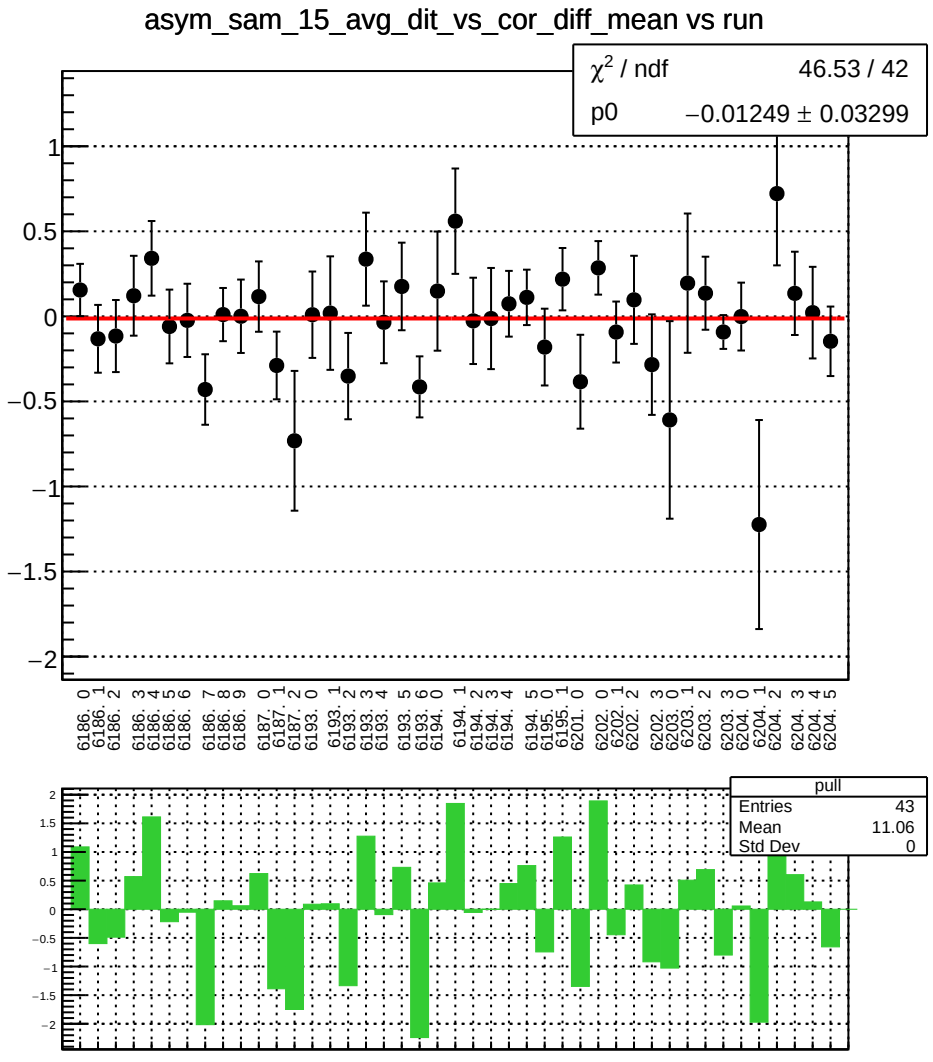

asym_sam_15_avg_mean vs run
χ² / ndf 62.5 / 42
p0 −716.9 ± 728.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −52.41
Std Dev 0
3
2
1
0
−1
−2

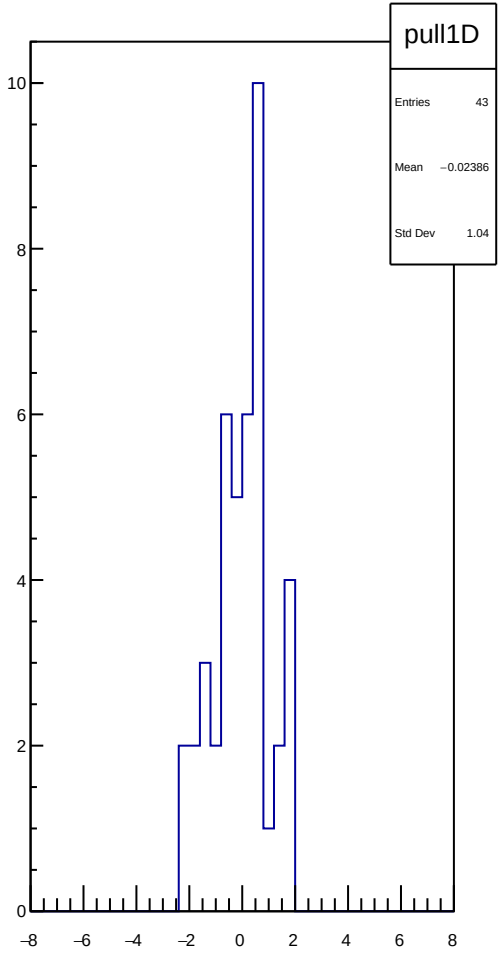

pull1D
Entries 43
Mean −0.01472
Std Dev 1.205
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

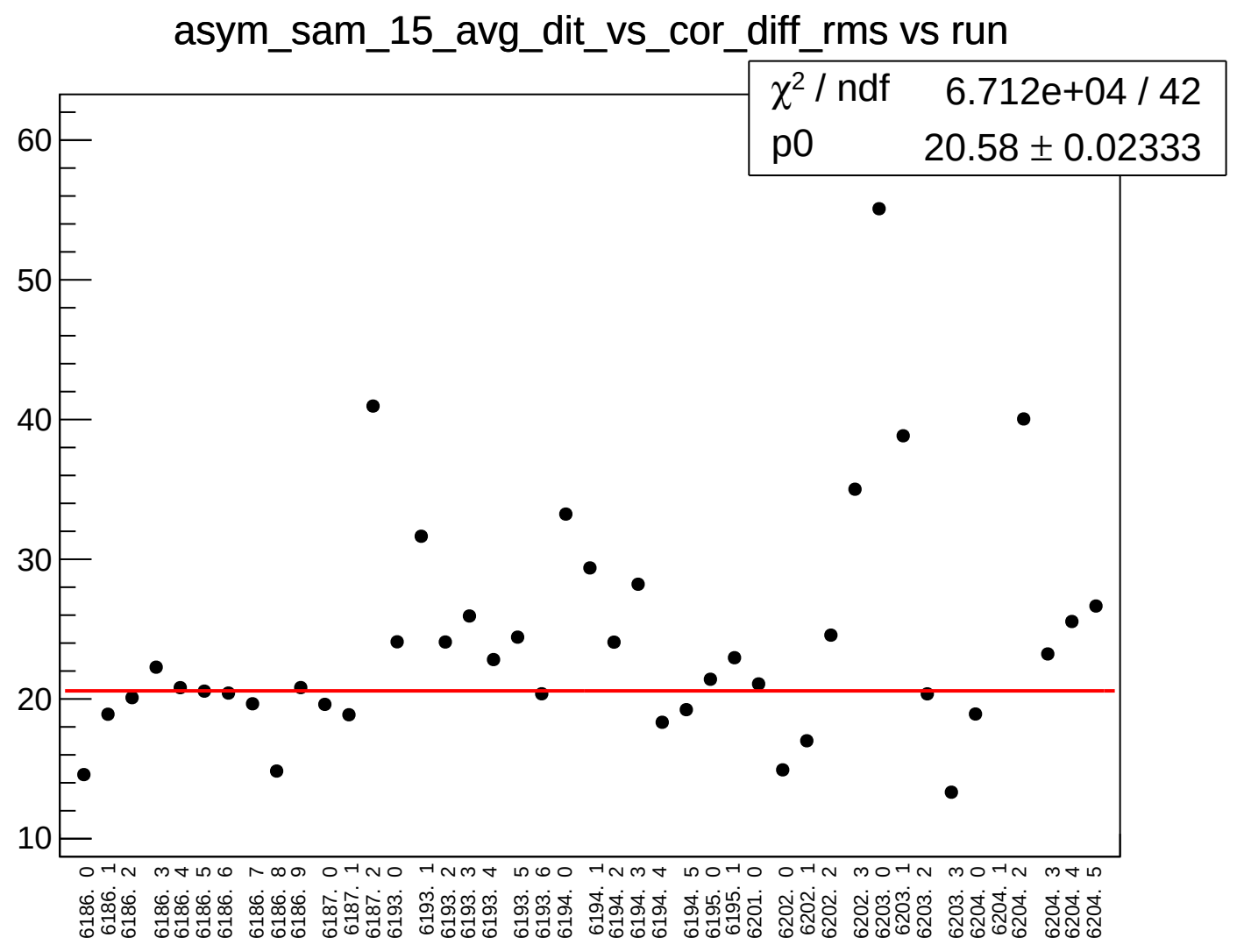

asym_sam_15_avg_rms vs run
χ² / ndf 4400 / 42
p0 472.4 ± 0.5152
580
560
540
520
500
480
460
440
420
400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

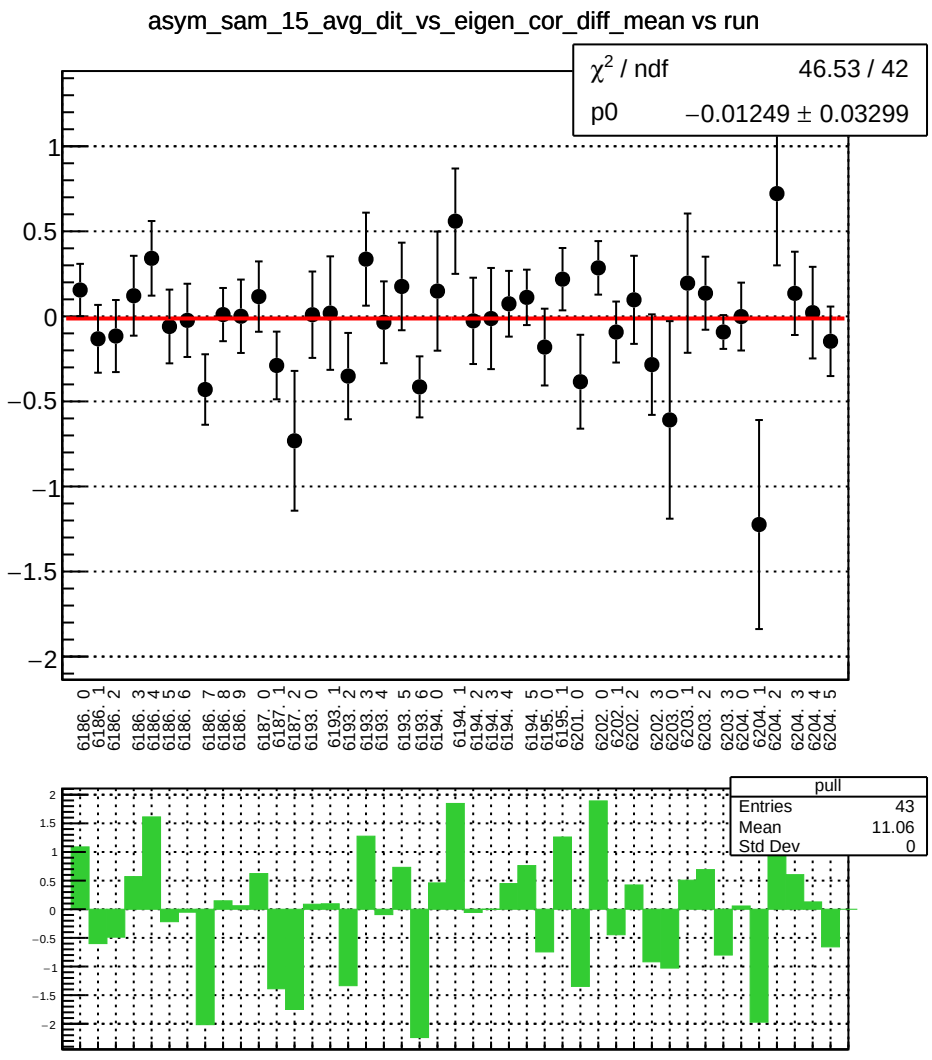

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 46.71 / 42
p0 2.528e−14 ± 4.479e−14
0.6
0.4
0.2
0
−0.2
−0.4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −49.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.04781
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

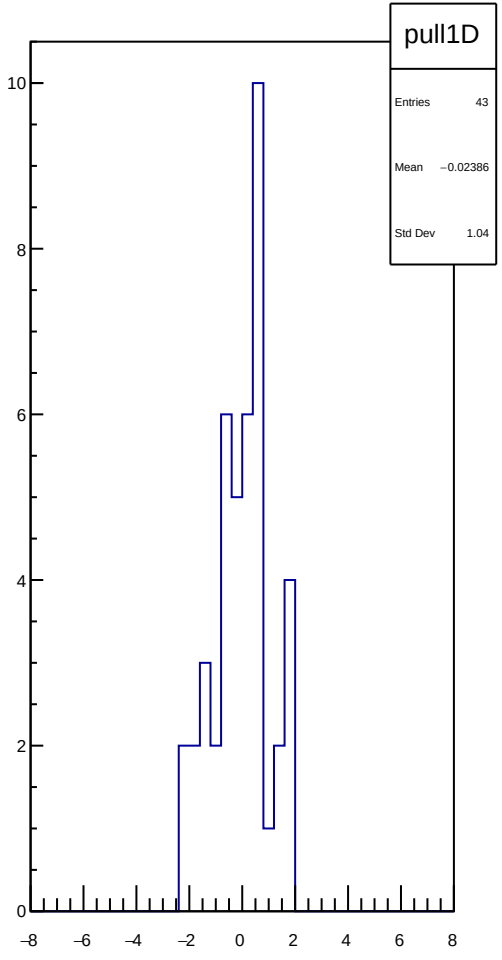

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.619e+05 / 42
p0 1.686e−11 ± 3.167e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

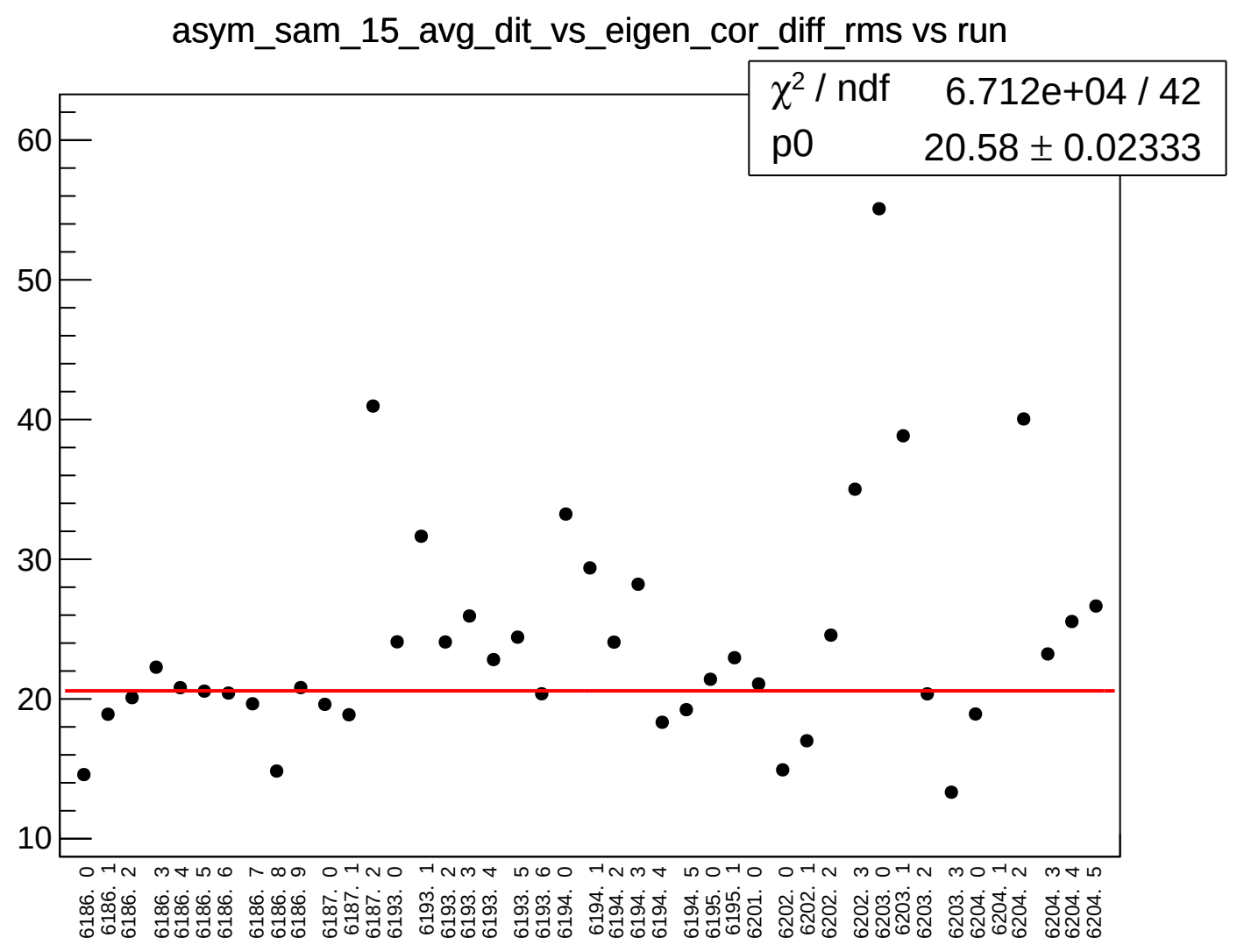

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 46.53 / 42
p0 −0.01249 ± 0.03299
pull
Entries 43
Mean 11.06
Std Dev 0

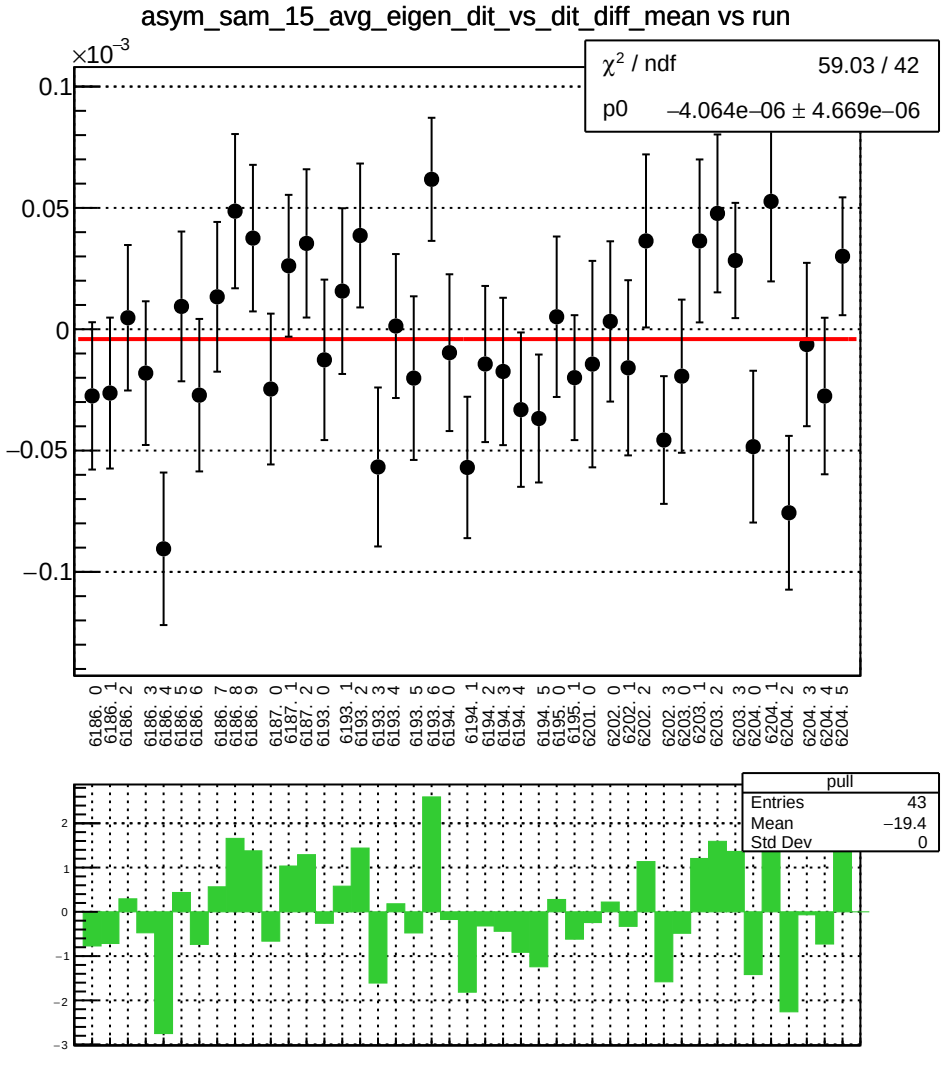

pull1D
Entries 43
Mean −0.02386
Std Dev 1.04

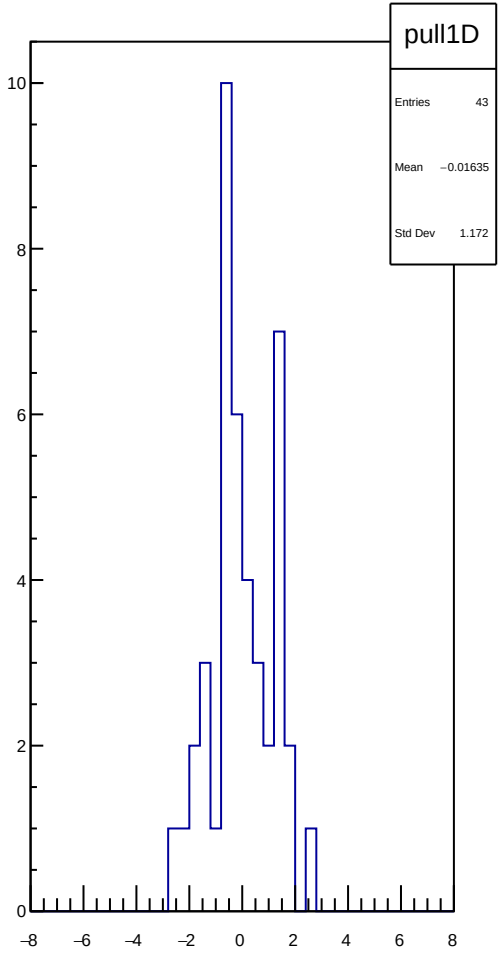

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.712e+04 / 42
p0 20.58 ± 0.02333
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

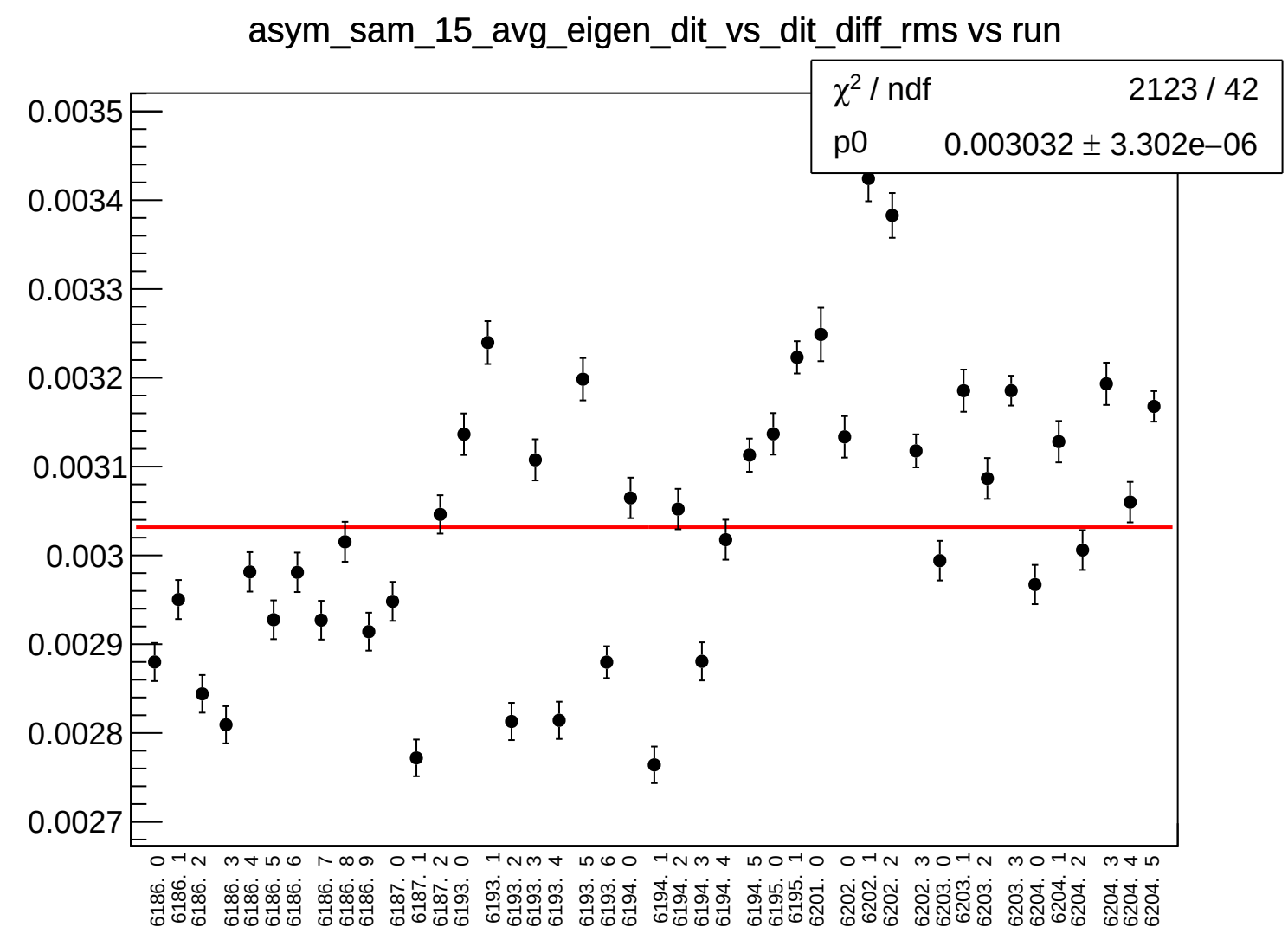

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.53 / 42
p0 −0.01249 ± 0.03299
pull
Entries 43
Mean 11.06
Std Dev 0

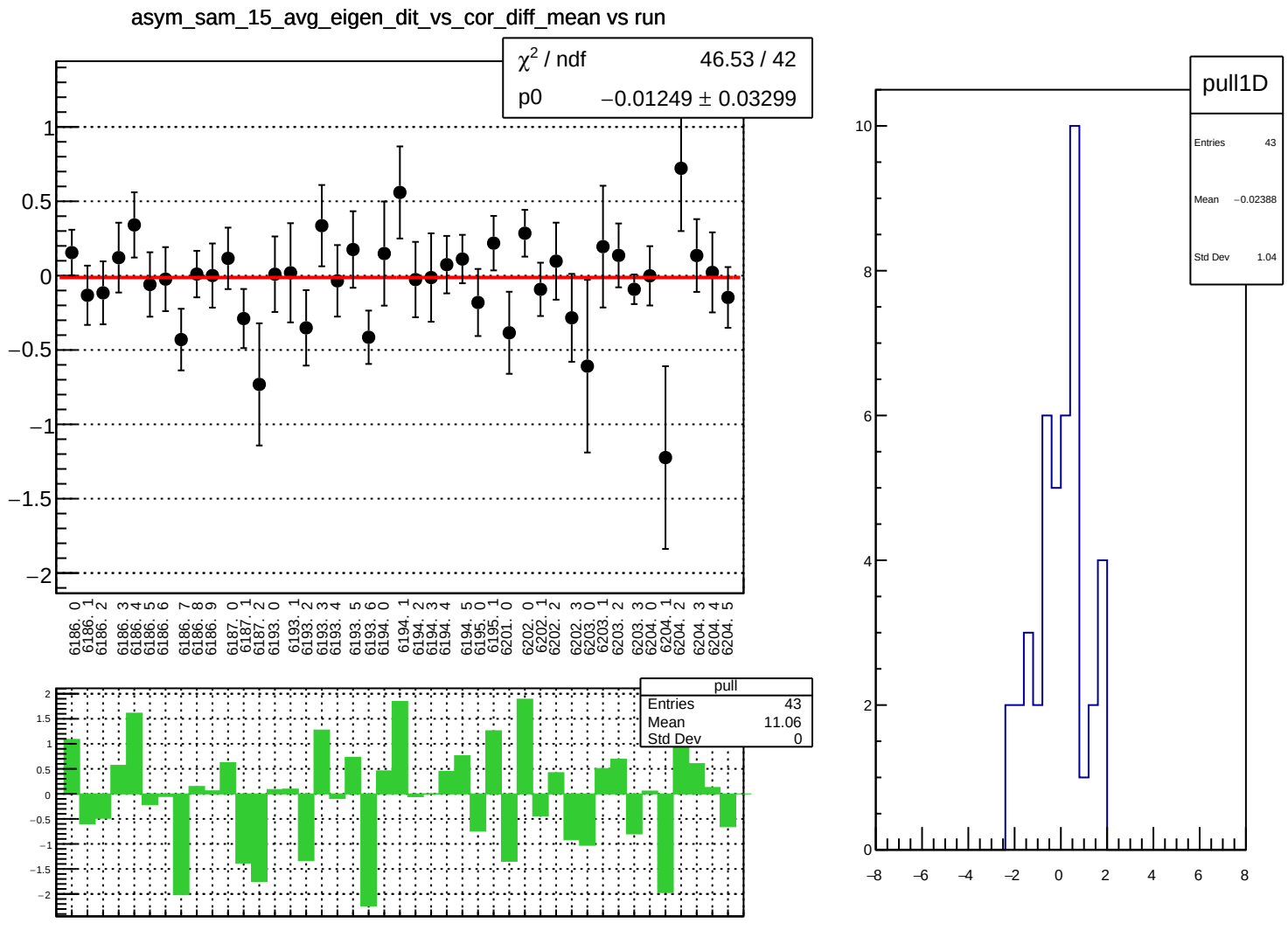

pull1D
Entries 43
Mean −0.02386
Std Dev 1.04

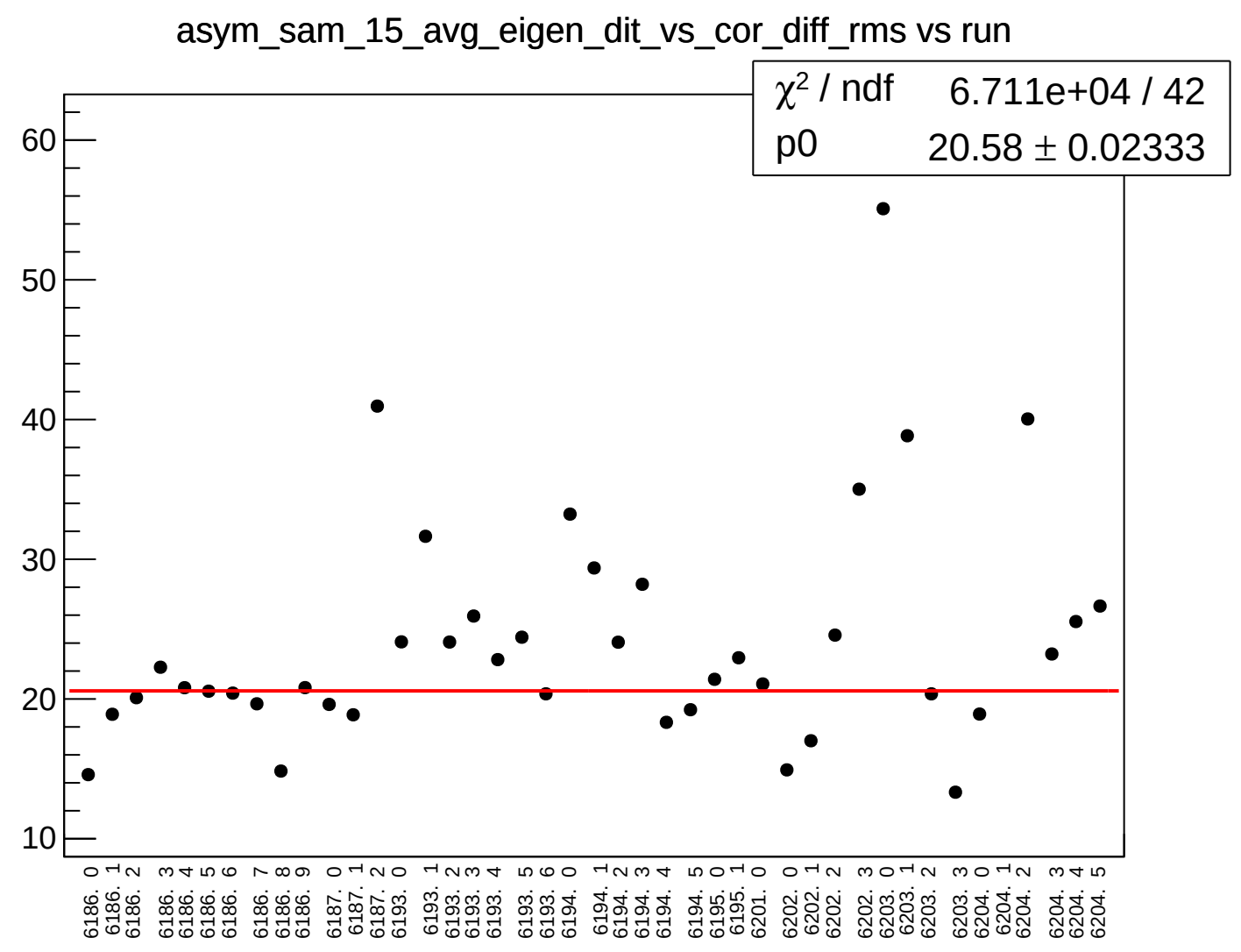

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.712e+04 / 42
p0 20.58 ± 0.02333
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

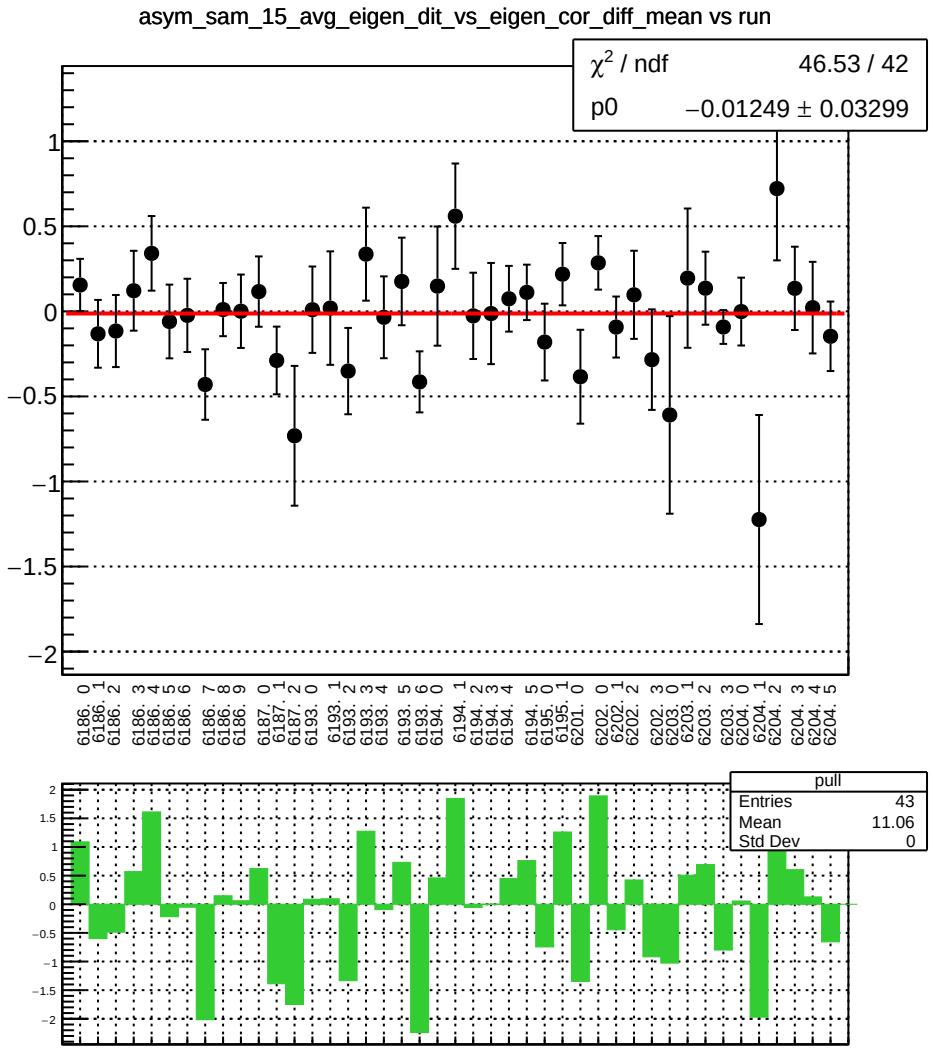

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 59.03 / 42
p0 −4.064e−06 ± 4.669e−06
0.1
0.05
0
−0.05
−0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −19.4
Std Dev 0
2
1
0
−1
−2
−3

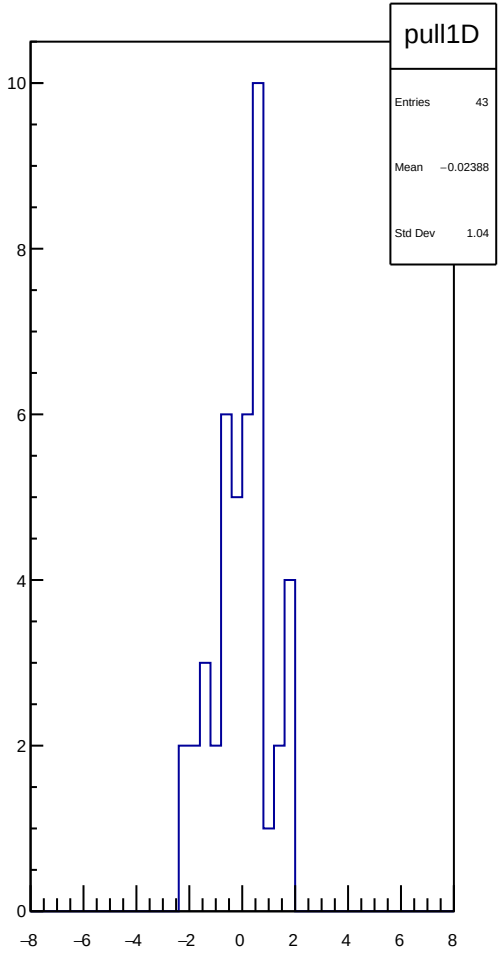

pull1D
Entries 43
Mean −0.01635
Std Dev 1.172
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

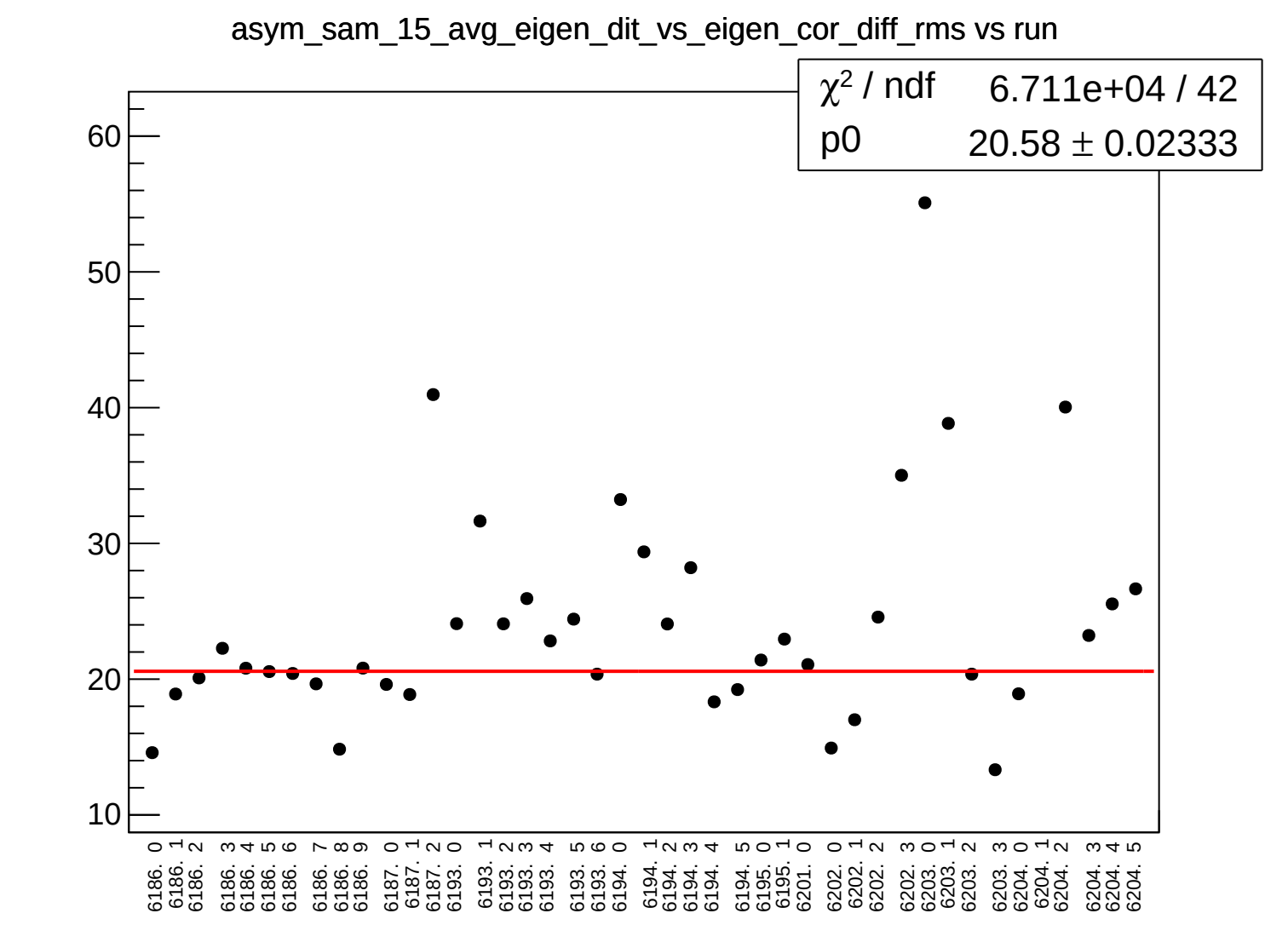

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2123 / 42
p0 0.003032 ± 3.302e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

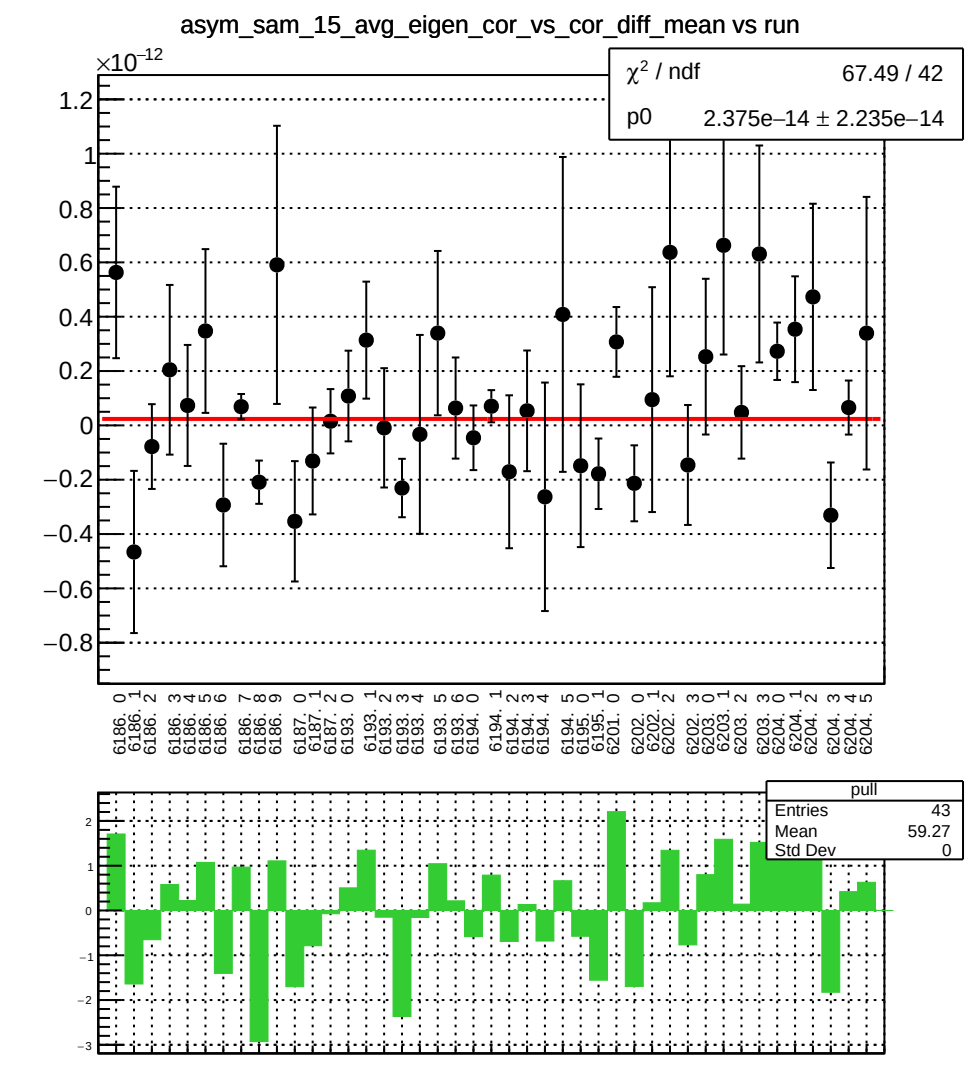

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.53 / 42
p0 −0.01249 ± 0.03299
pull
Entries 43
Mean 11.06
Std Dev 0
pull1D
Entries 43
Mean −0.02388
Std Dev 1.04

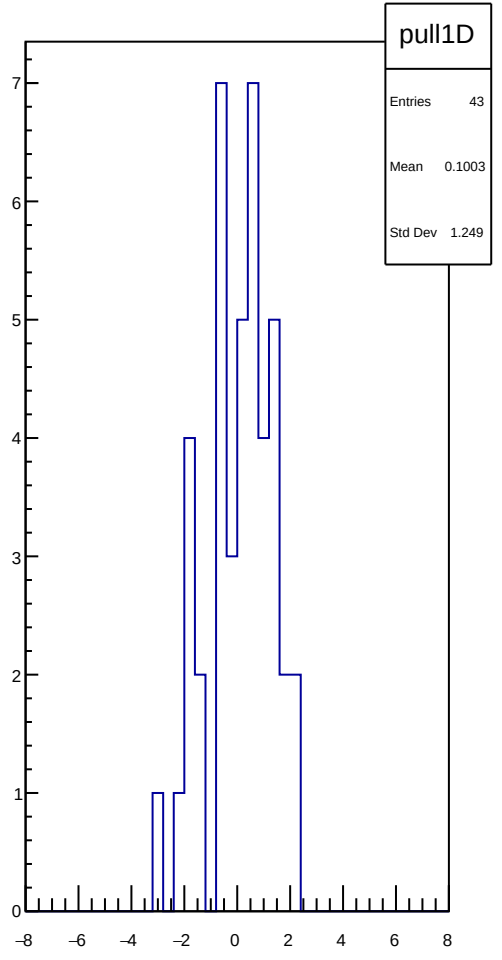

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.711e+04 / 42
p0 20.58 ± 0.02333
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

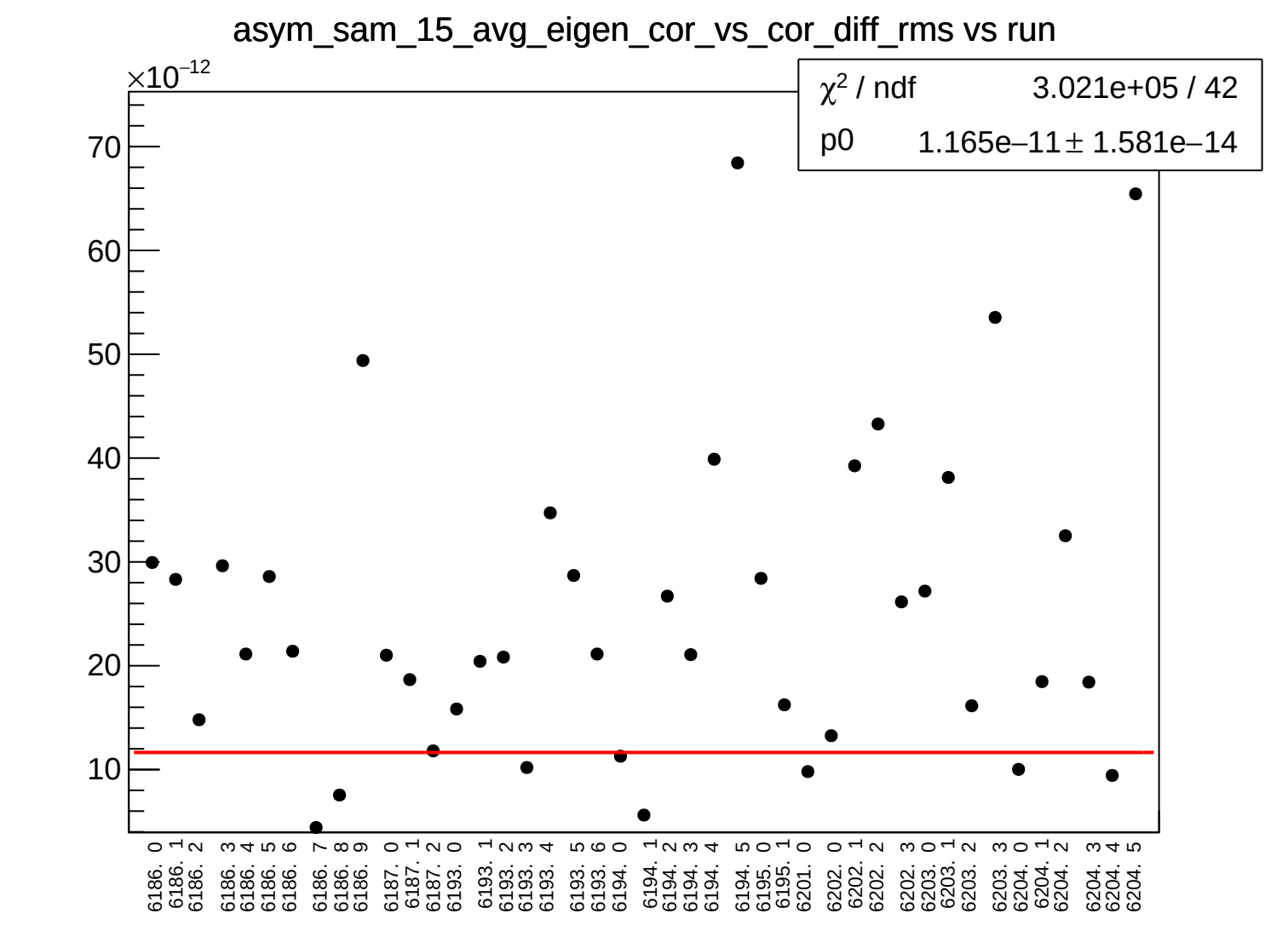

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.53 / 42
p0 −0.01249 ± 0.03299
pull
Entries 43
Mean 11.06
Std Dev 0


pull1D
Entries 43
Mean −0.02388
Std Dev 1.04


asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.711e+04 / 42
p0 20.58 ± 0.02333
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 67.49 / 42
p0 2.375e−14 ± 2.235e−14
pull
Entries 43
Mean 59.27
Std Dev 0


pull1D
Entries 43
Mean 0.1003
Std Dev 1.249


asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10−12
χ2 / ndf 3.021e+05 / 42
p0 1.165e−11 ± 1.581e−14
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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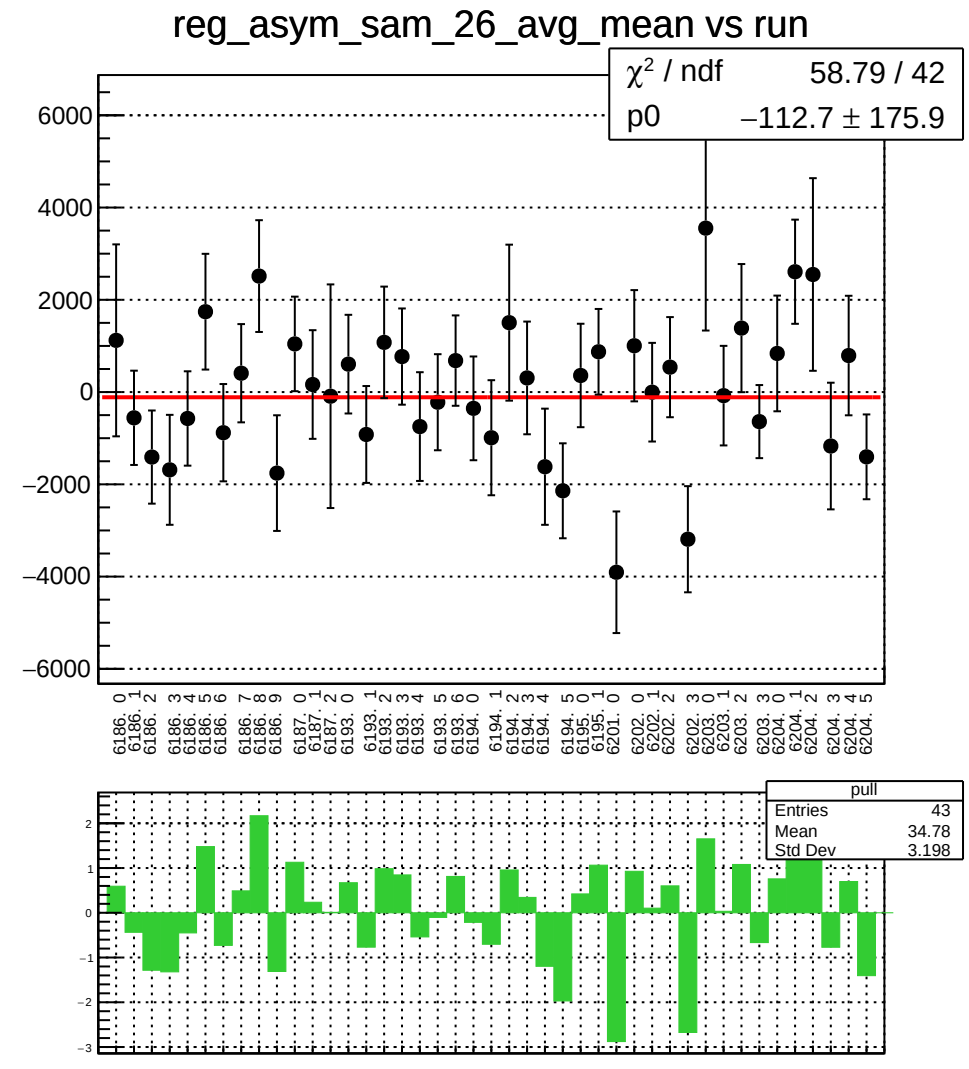
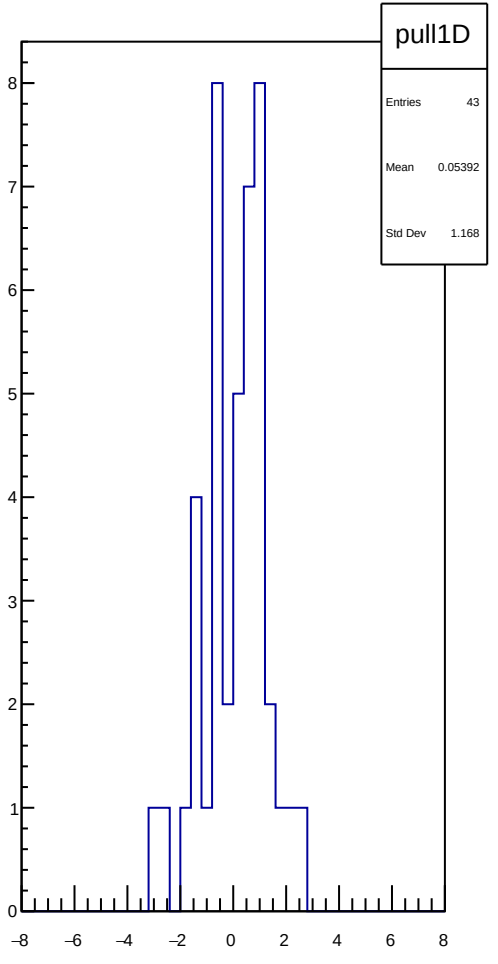
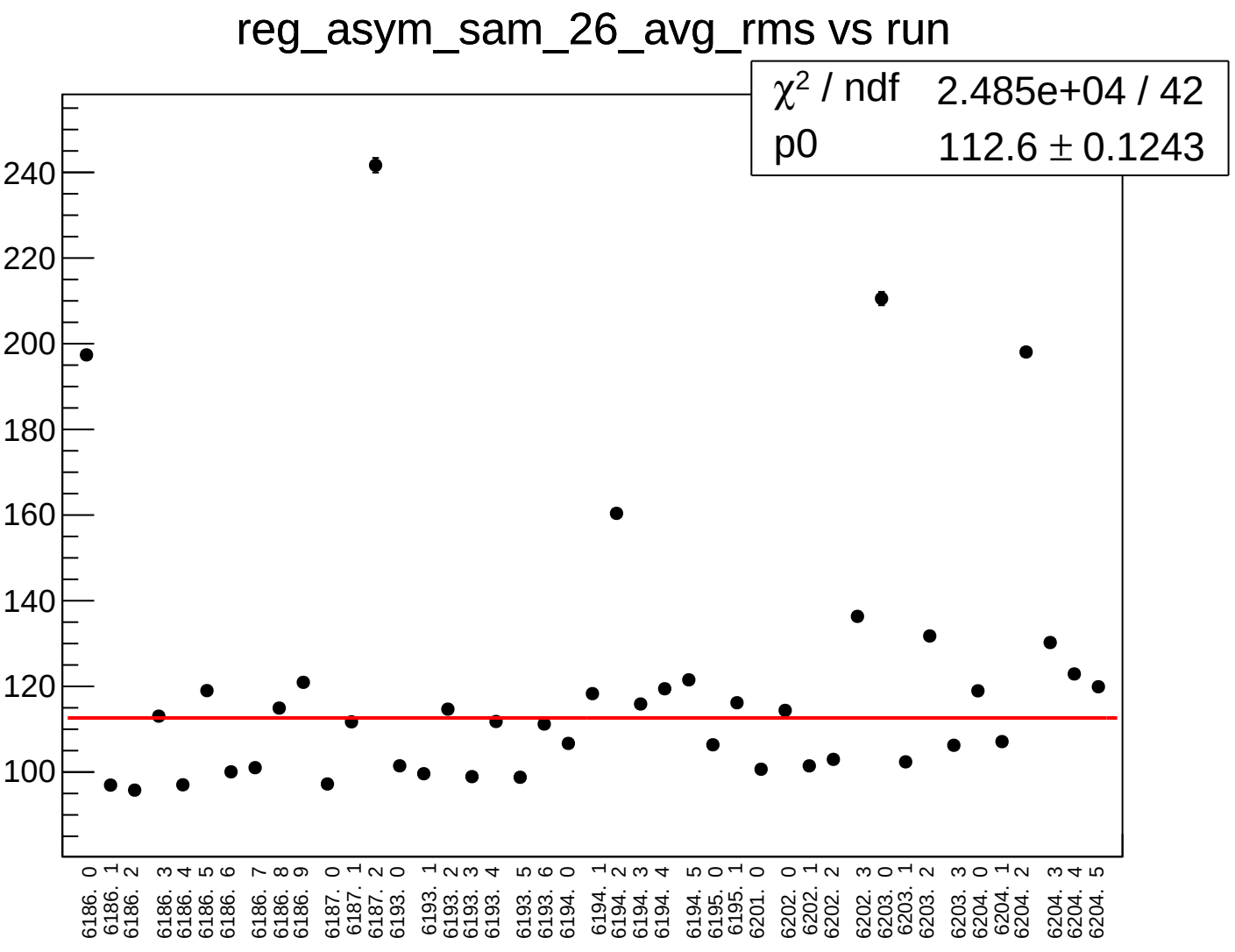
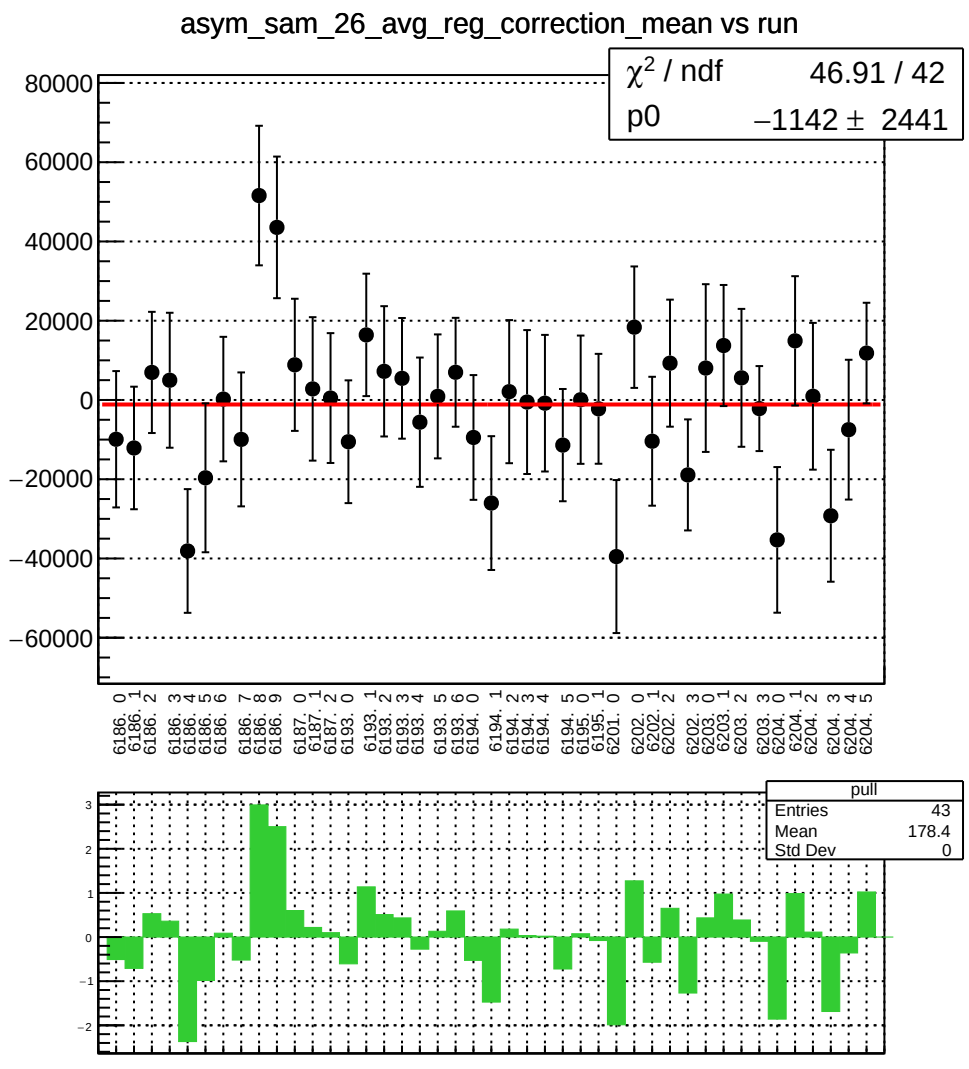
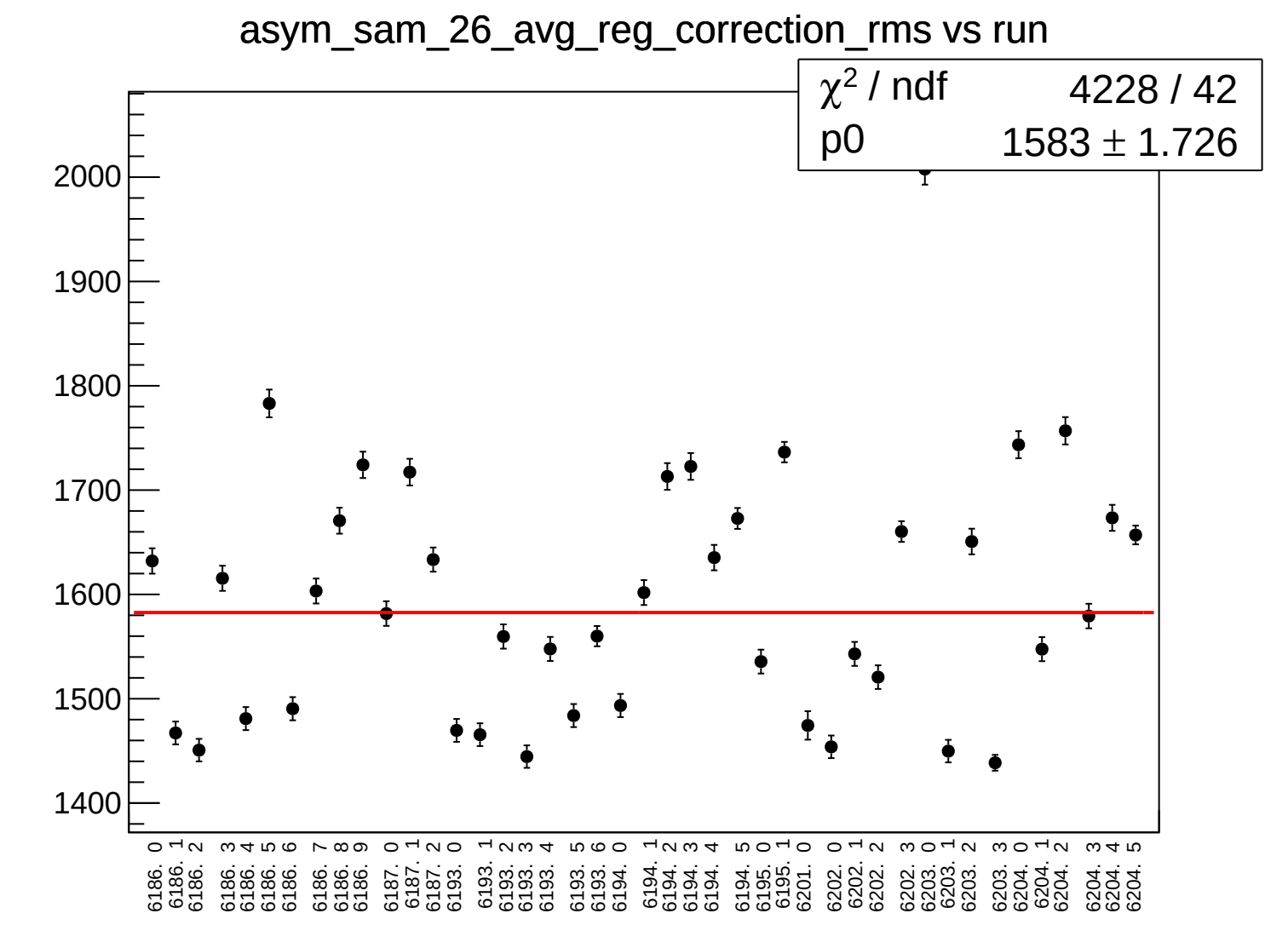
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_sam_26_avg_mean vs run
χ² / ndf 58.79 / 42
p0 −112.7 ± 175.9
6000
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 34.78
Std Dev 3.198
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.05392
Std Dev 1.168
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 2.485e+04 / 42
p0 112.6 ± 0.1243
240
220
200
180
160
140
120
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 46.91 / 42
p0 −1142 ± 2441
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 178.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.006292
Std Dev 1.045
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 4228 / 42
p0 1583 ± 1.726
2000
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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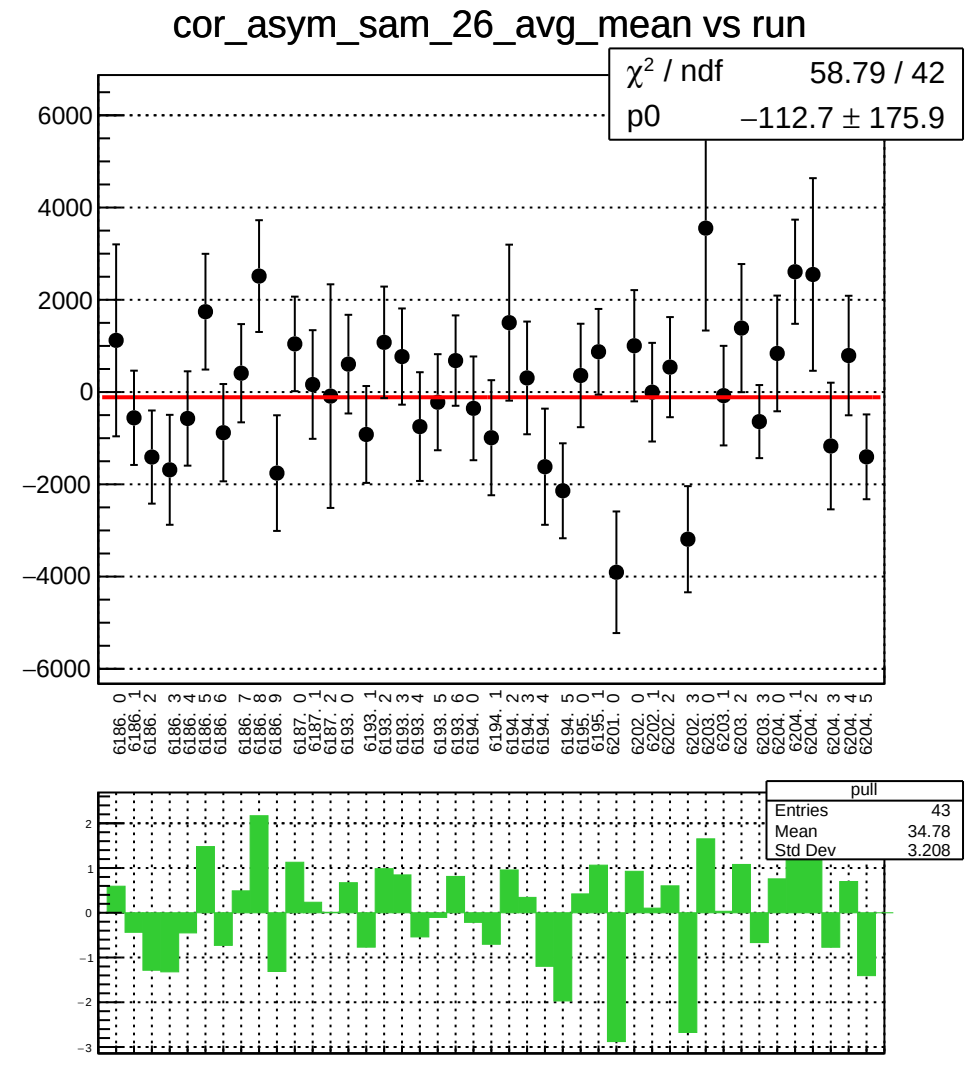
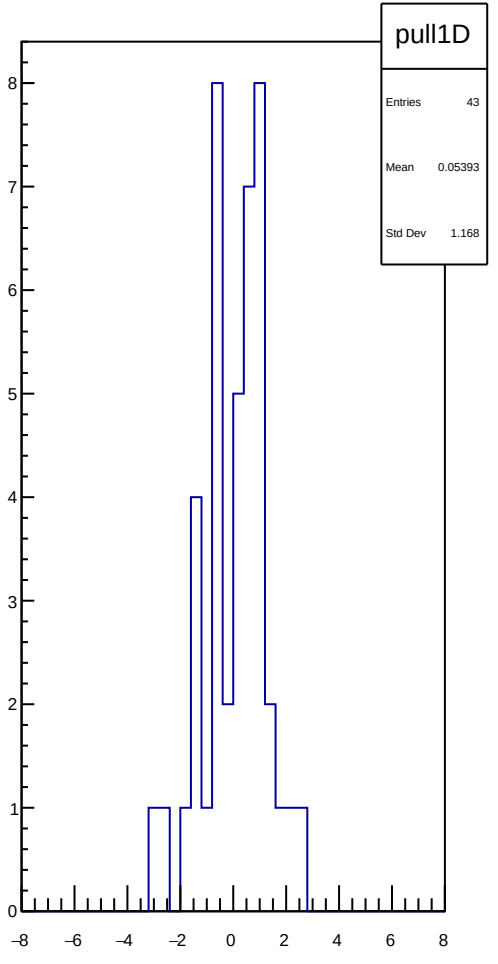
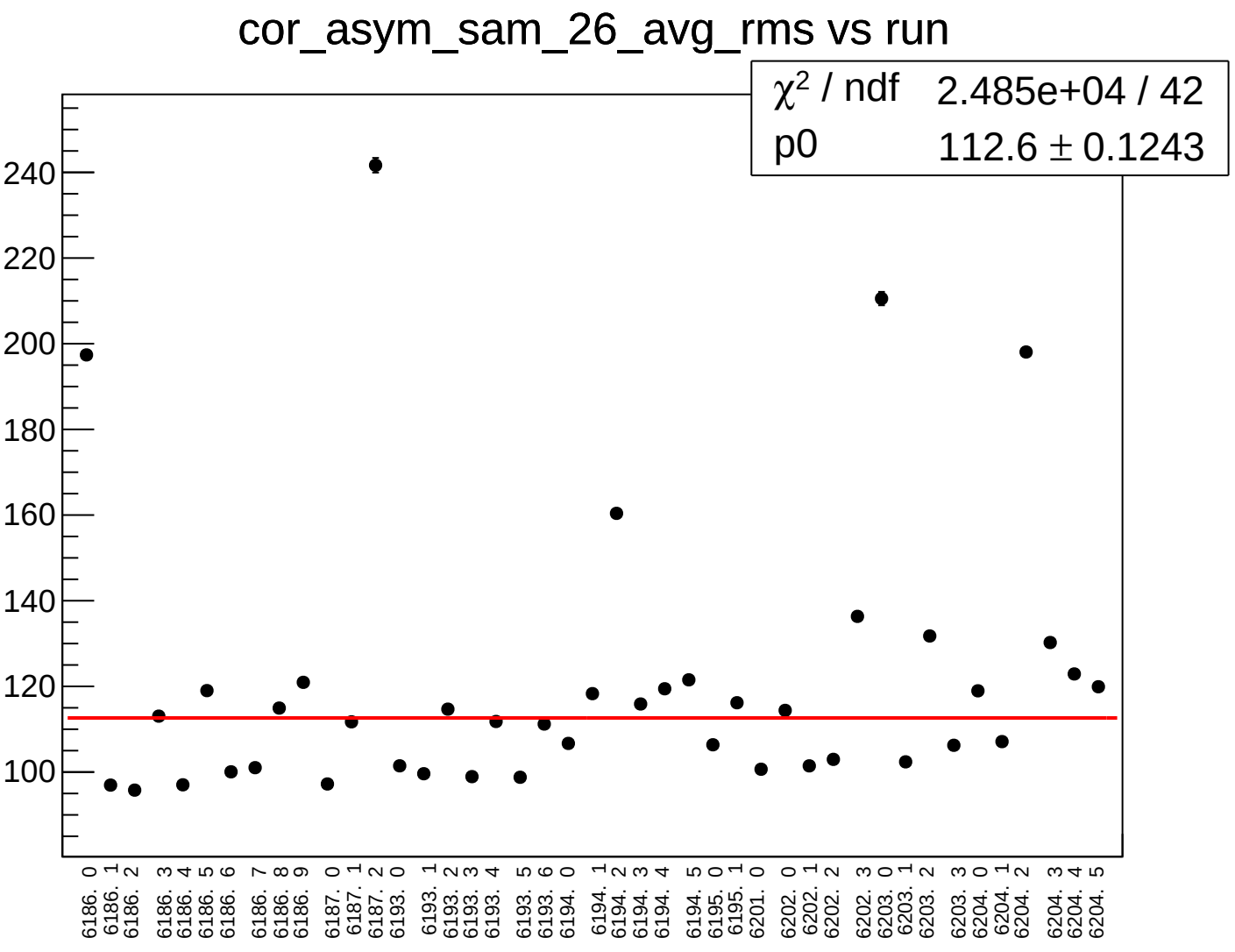
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_sam_26_avg_mean vs run
χ² / ndf 58.79 / 42
p0 −112.7 ± 175.9
6000
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 34.78
Std Dev 3.208
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.05393
Std Dev 1.168
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 2.485e+04 / 42
p0 112.6 ± 0.1243
240
220
200
180
160
140
120
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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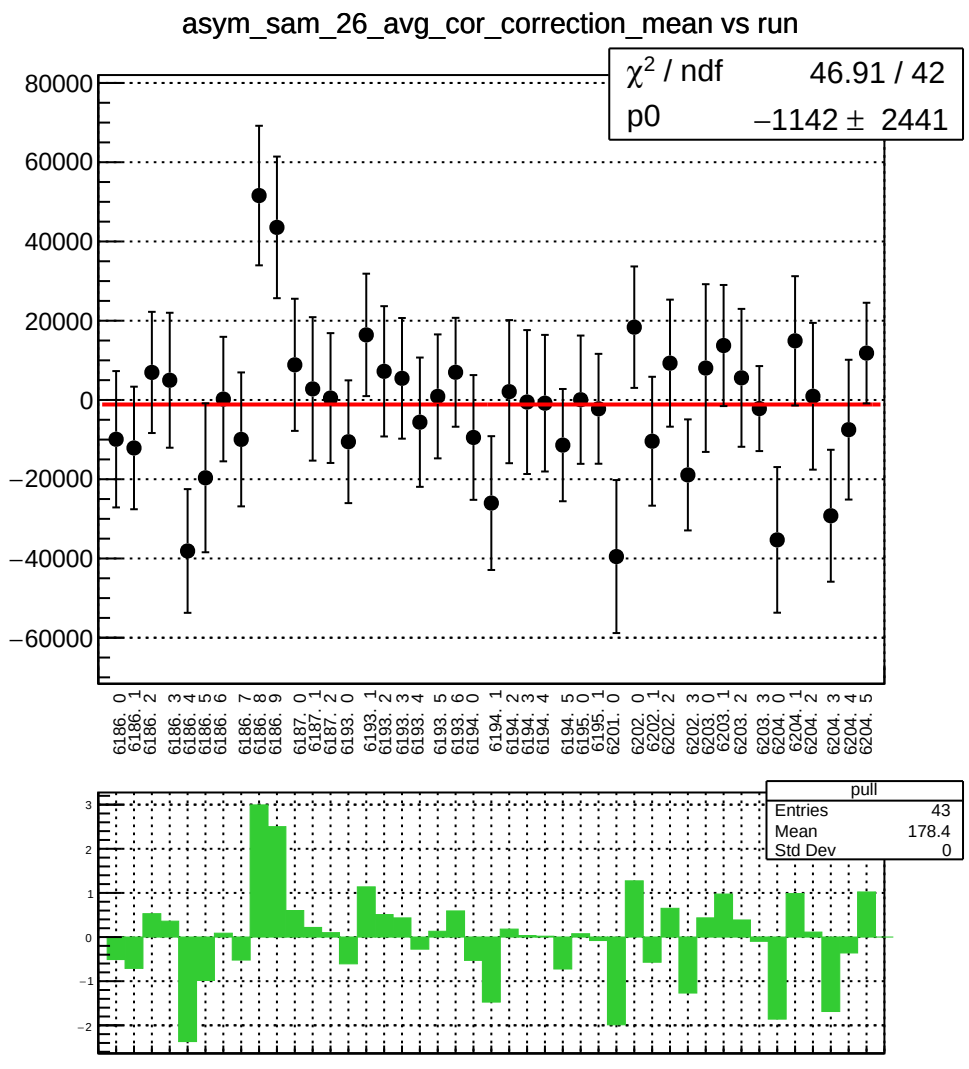
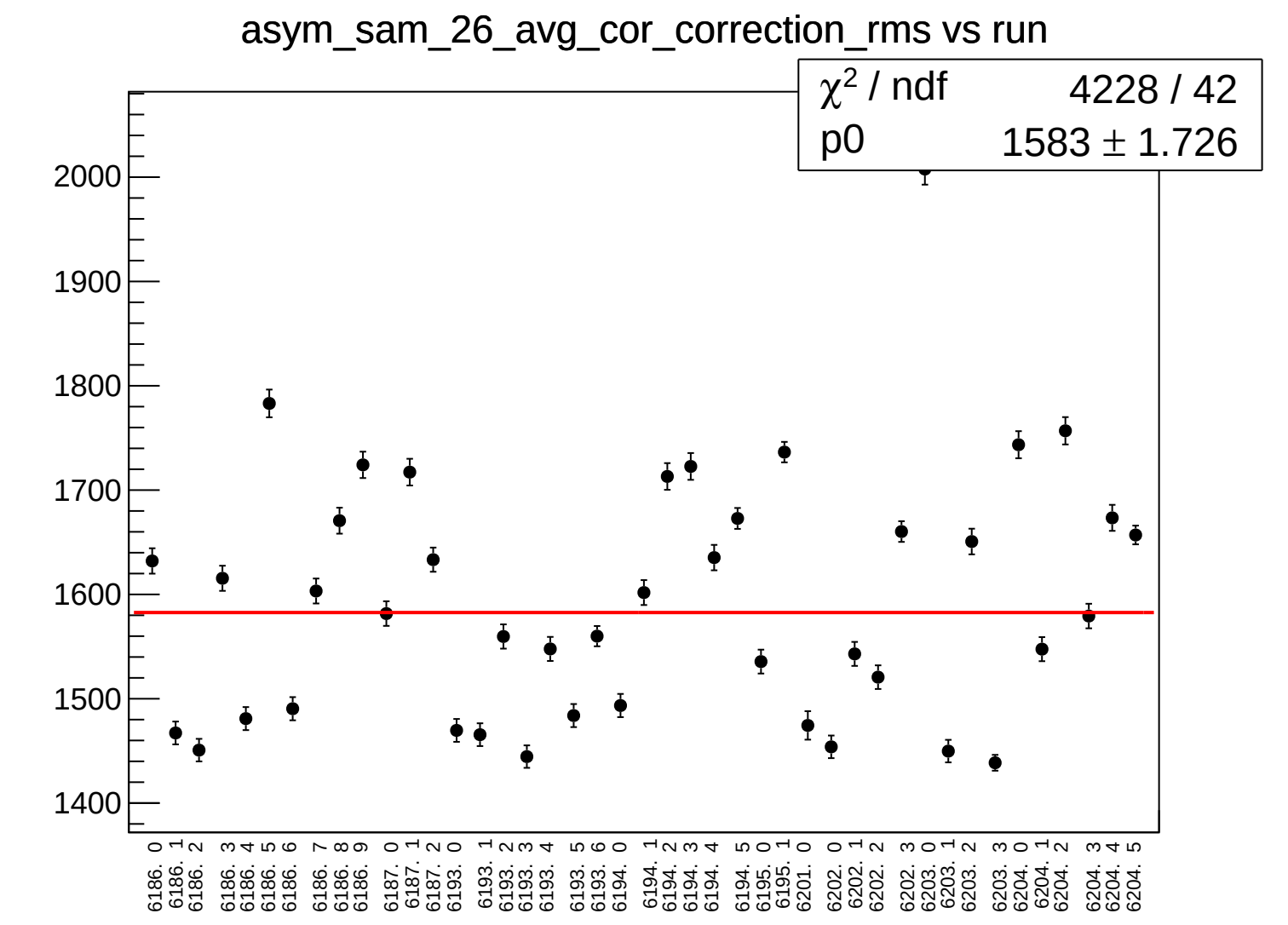
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 46.91 / 42
p0 −1142 ± 2441
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 178.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.006293
Std Dev 1.045
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 4228 / 42
p0 1583 ± 1.726
2000
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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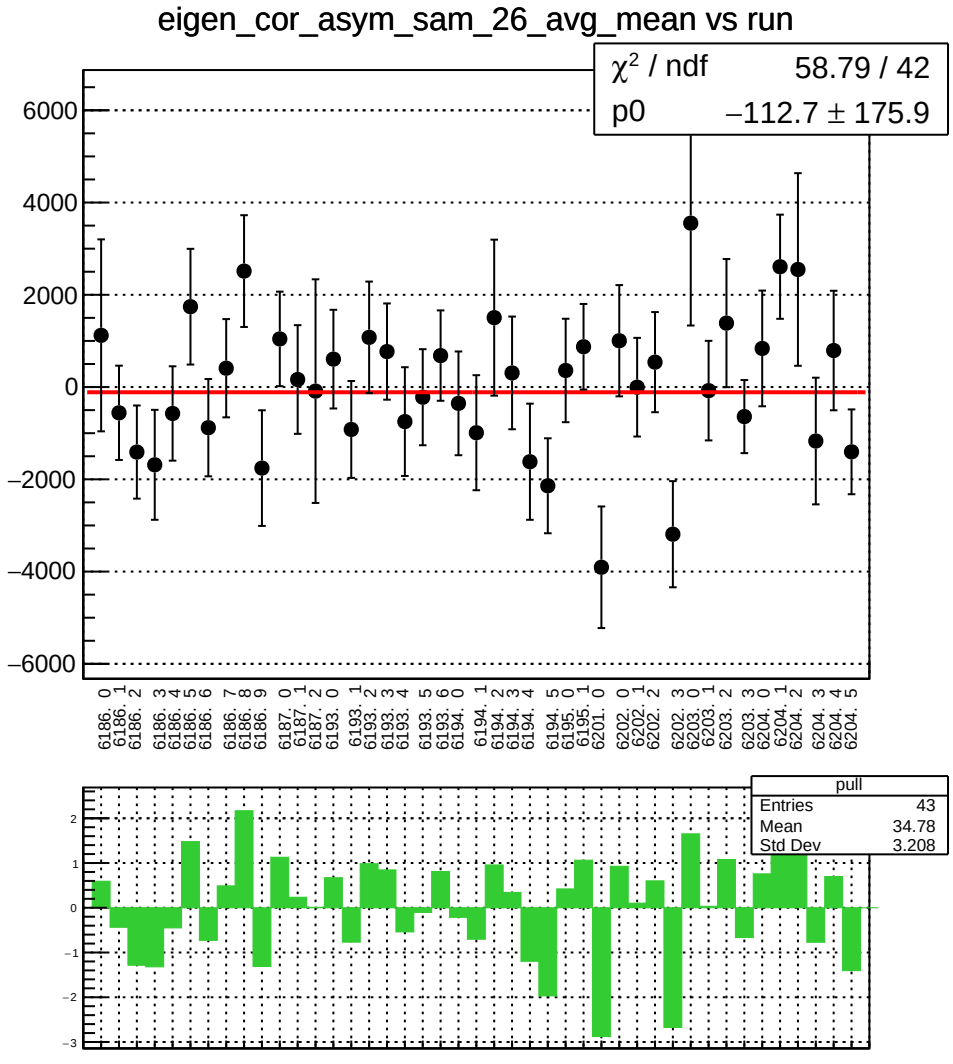
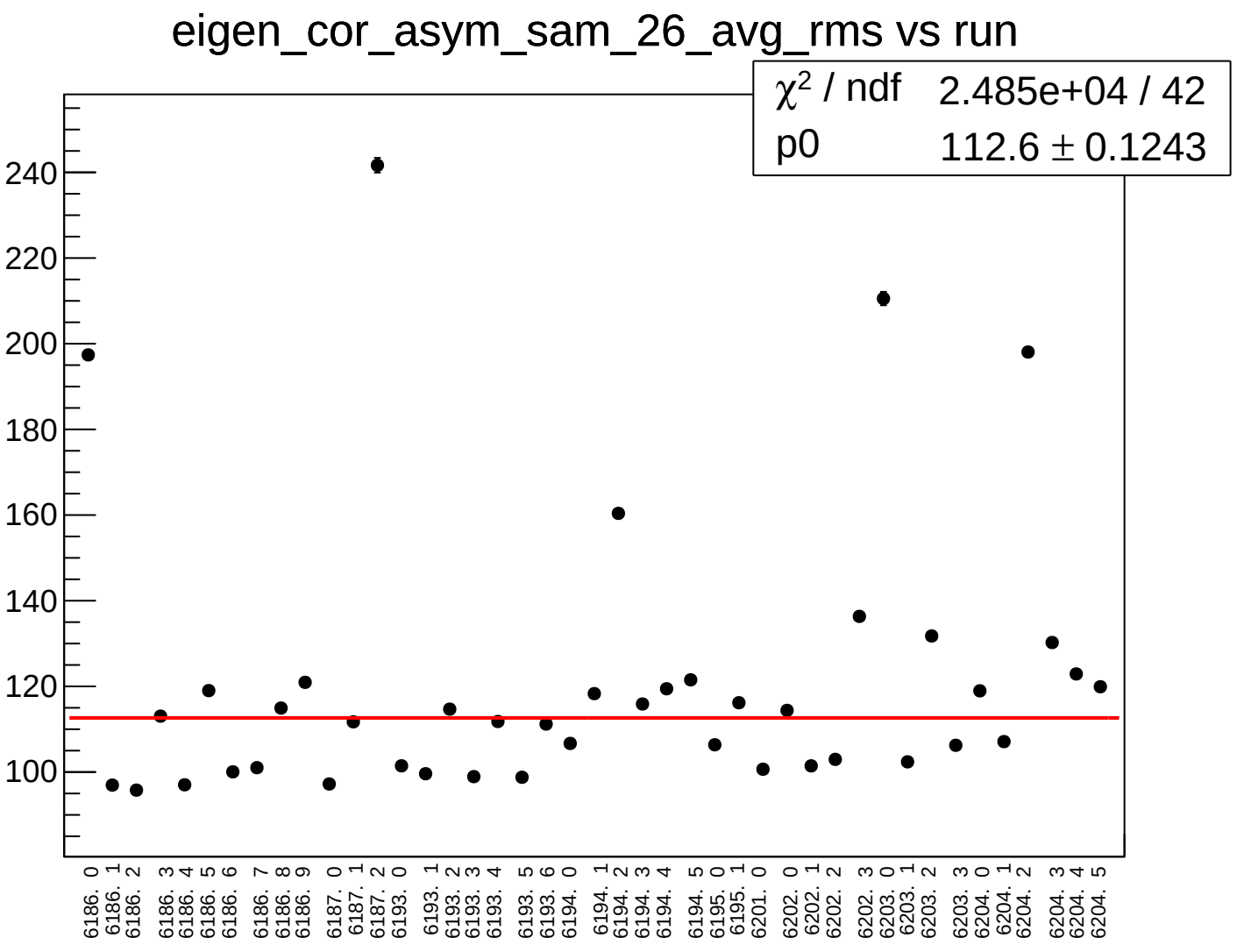
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 58.79 / 42
p0 −112.7 ± 175.9
6000
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 34.78
Std Dev 3.208
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.05393
Std Dev 1.168
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 2.485e+04 / 42
p0 112.6 ± 0.1243
240
220
200
180
160
140
120
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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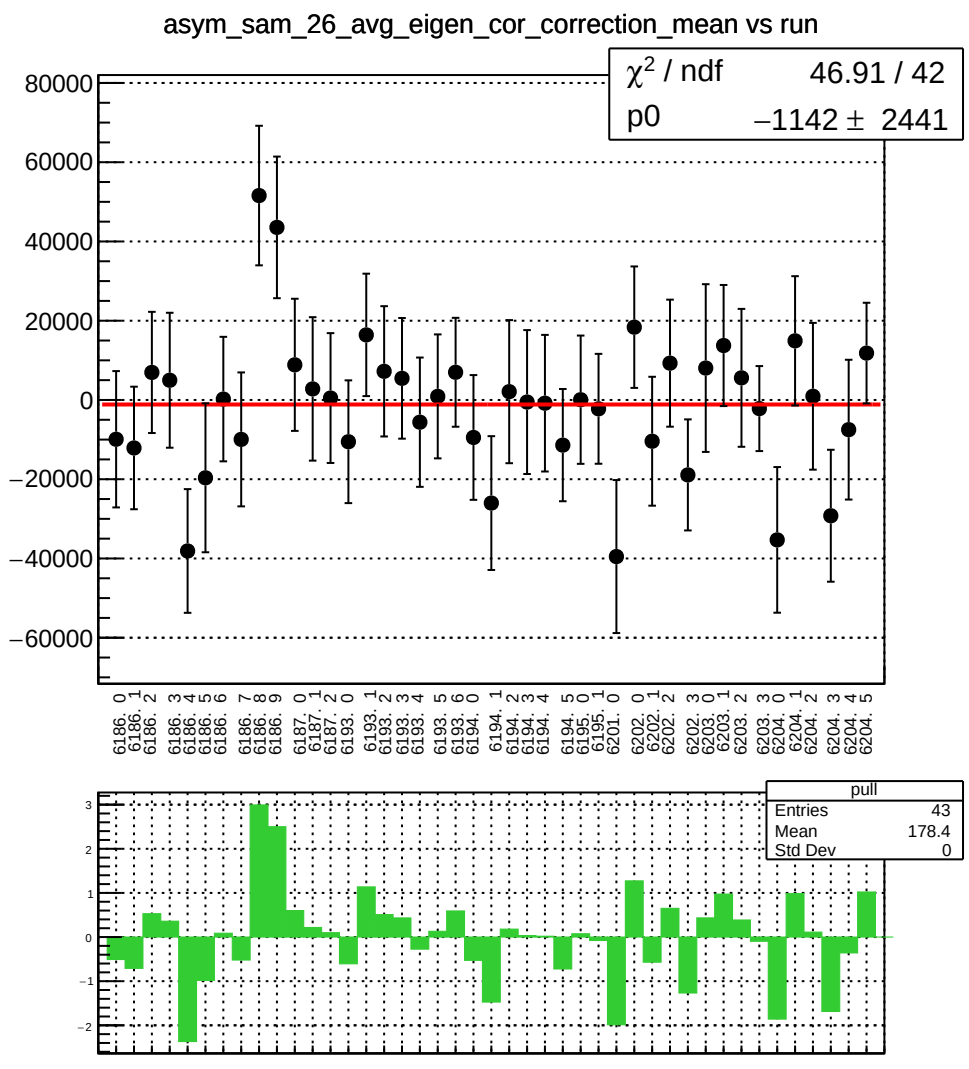
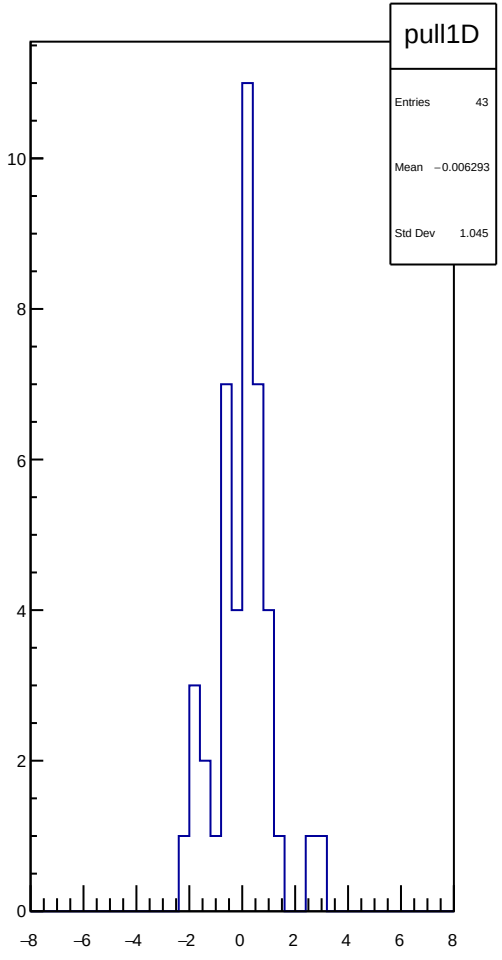
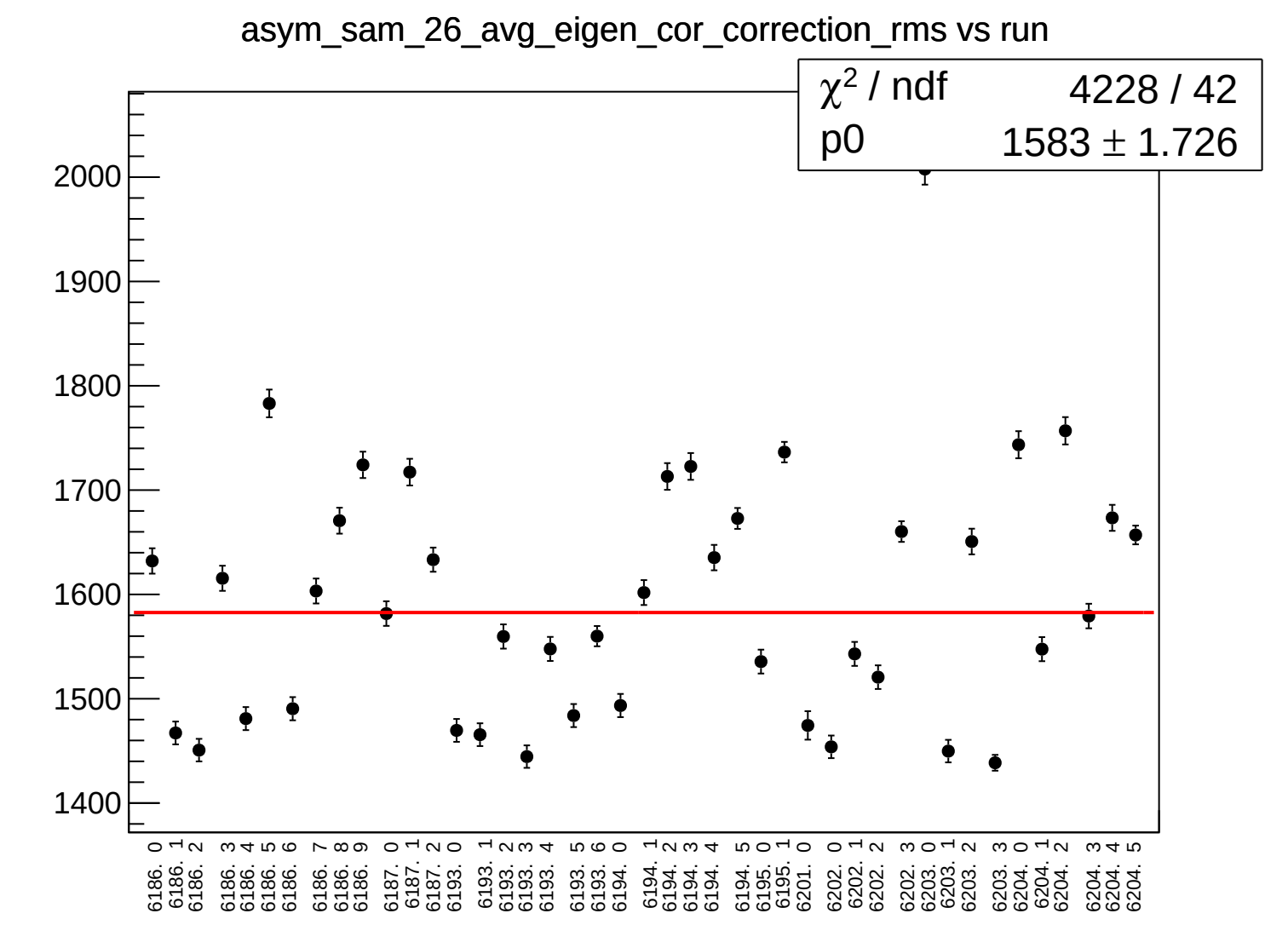
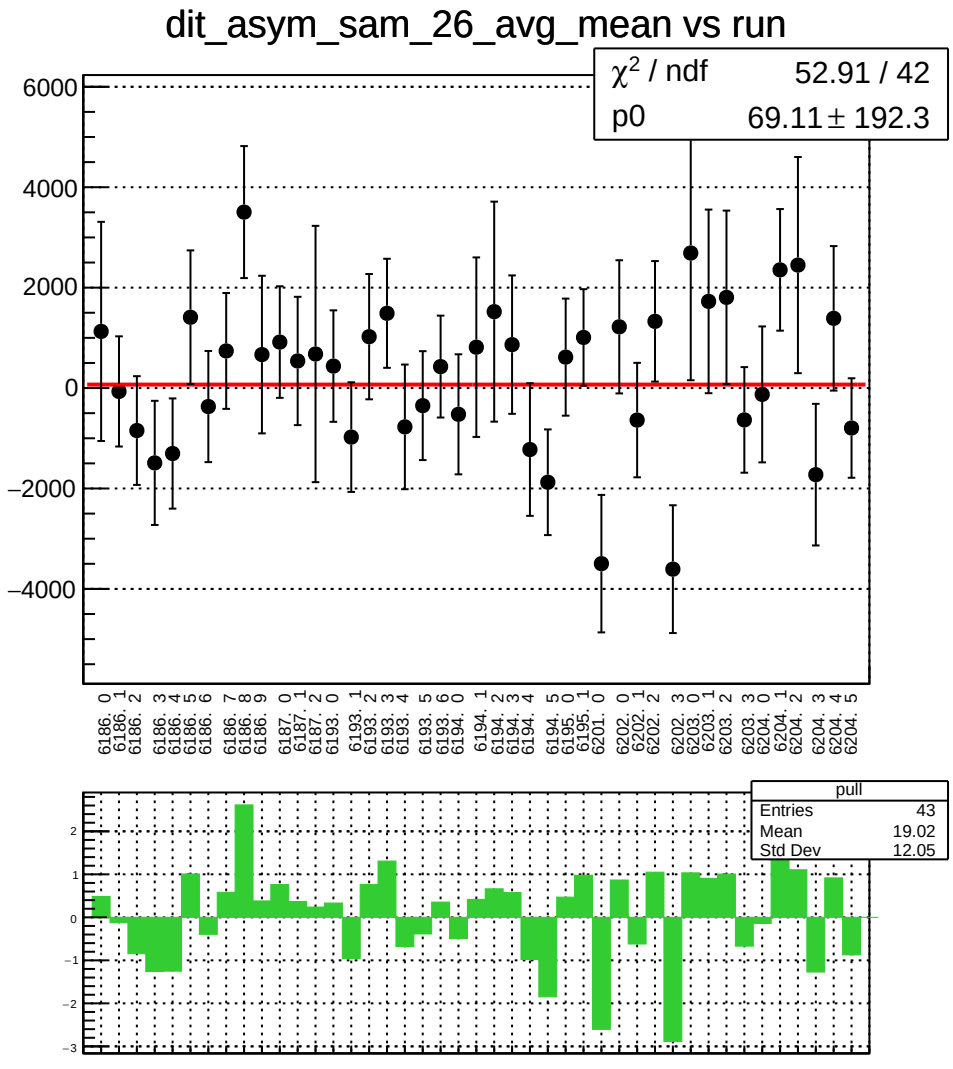
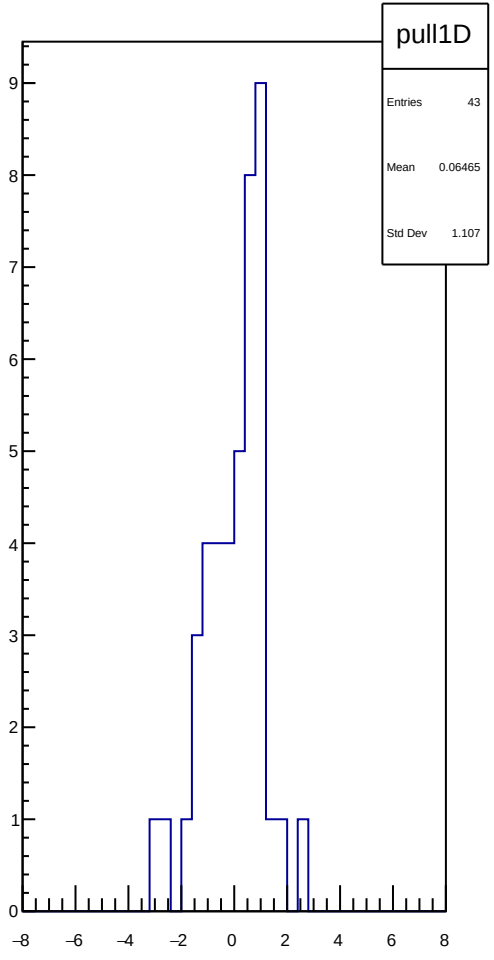
6204. 4
6204. 5

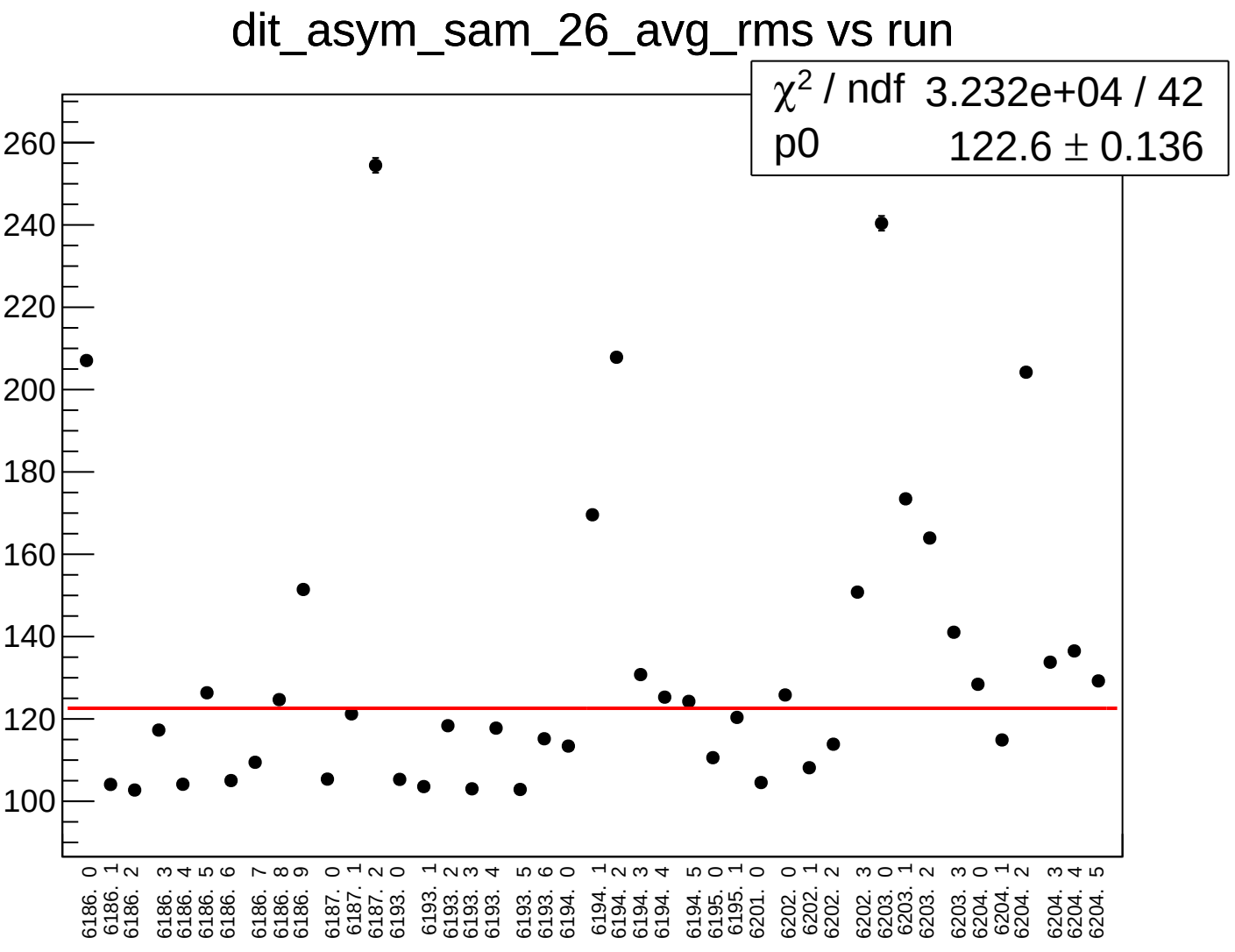

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 46.91 / 42
p0 −1142 ± 2441
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 178.4
Std Dev 0
3
2
1
0
−1
−2

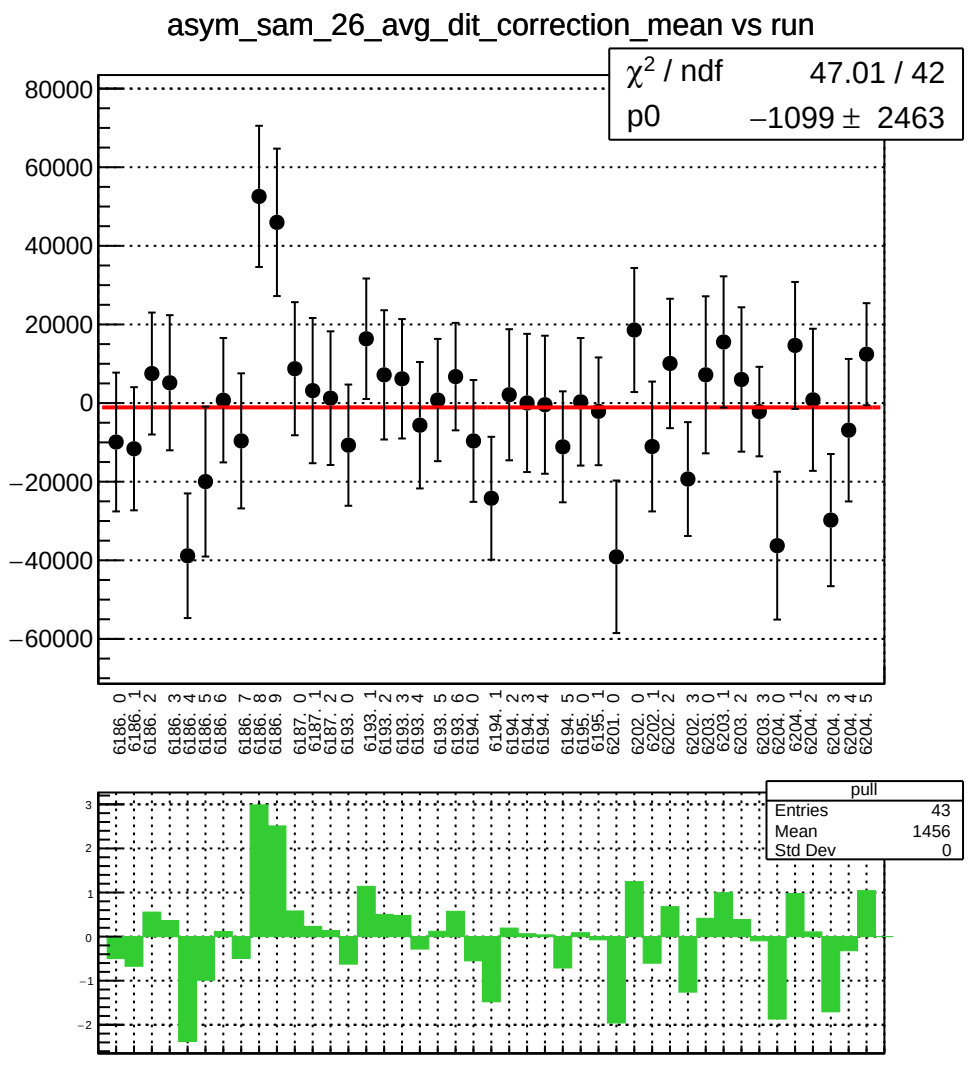

pull1D
Entries 43
Mean −0.006293
Std Dev 1.045
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

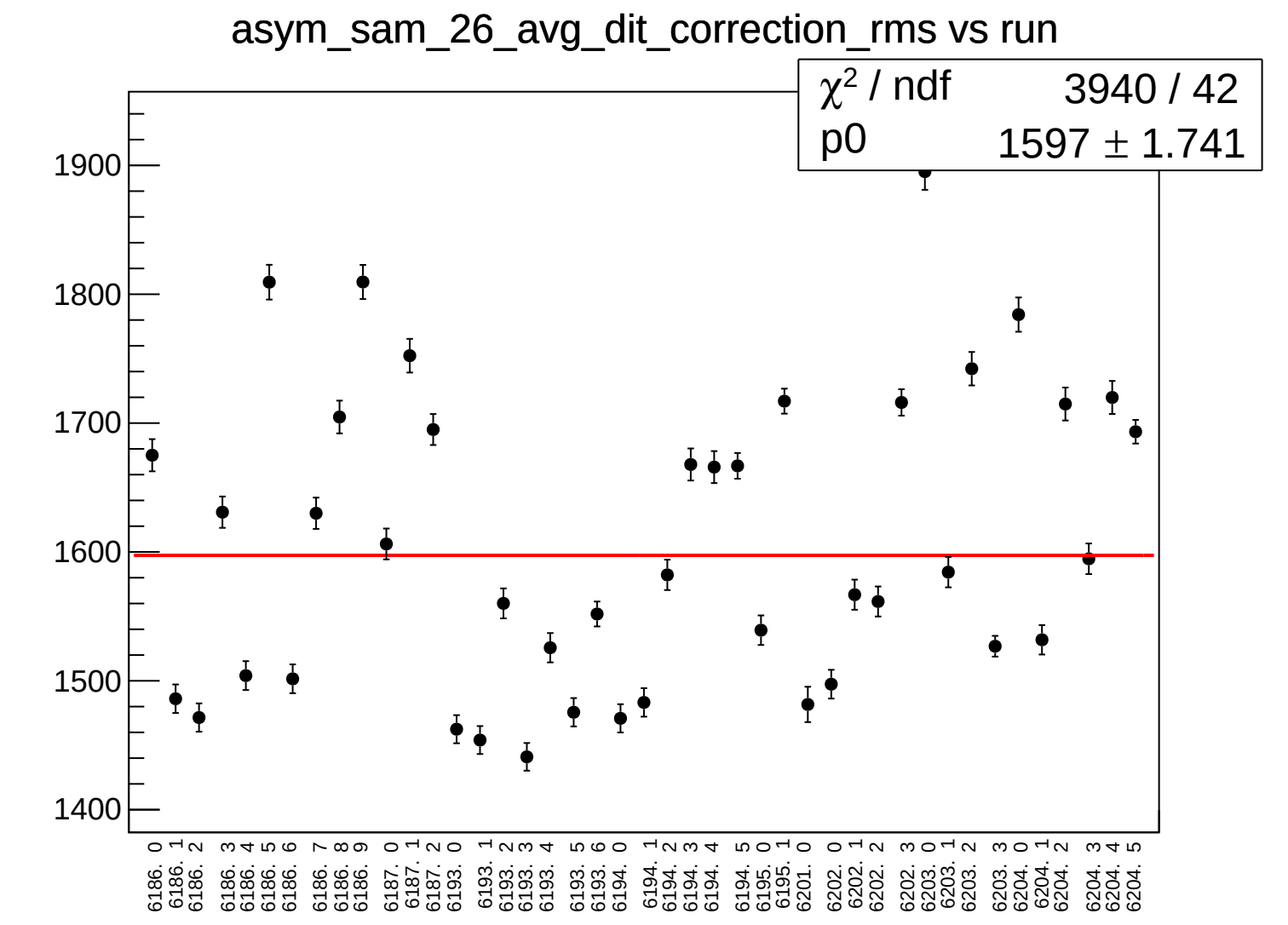

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 4228 / 42
p0 1583 ± 1.726
2000
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

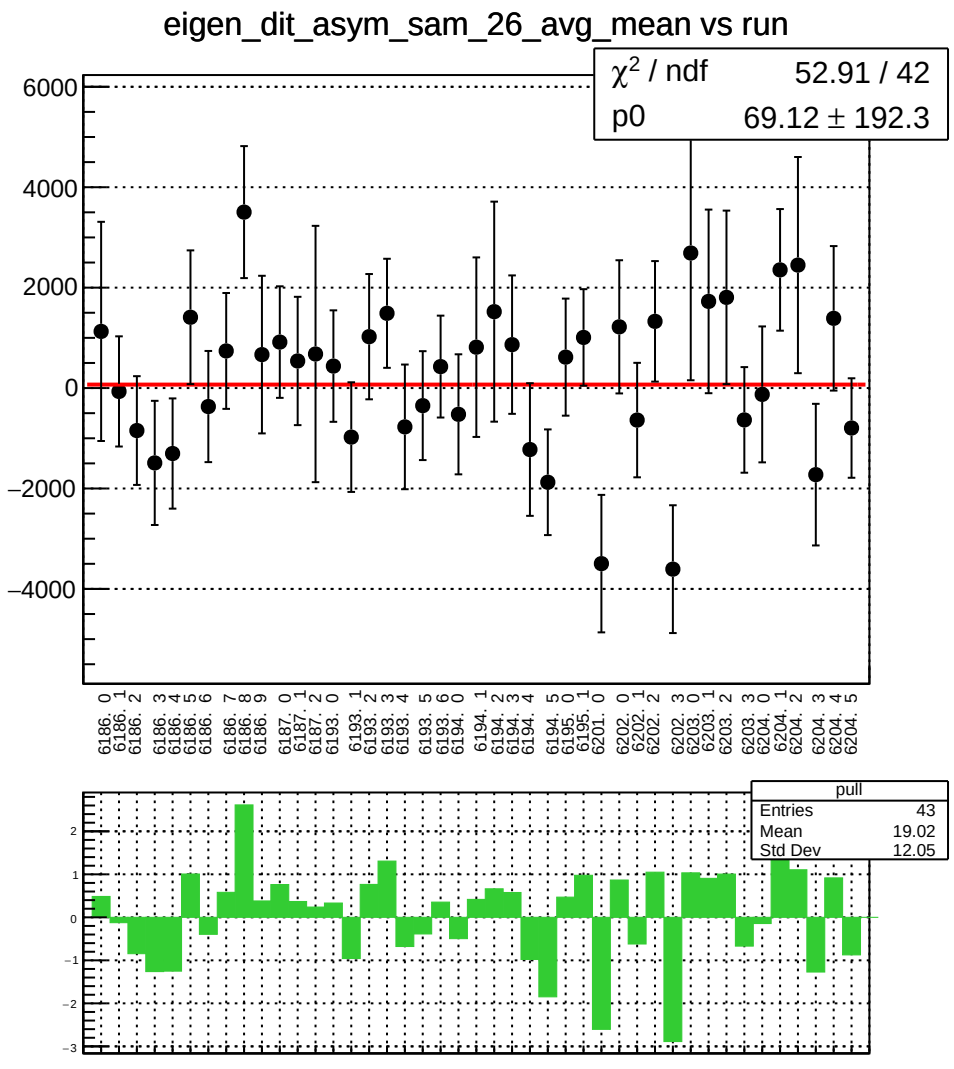

dit_asym_sam_26_avg_mean vs run
χ² / ndf 52.91 / 42
p0 69.11 ± 192.3
6000
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 19.02
Std Dev 12.05
2
1
0
−1
−2
−3

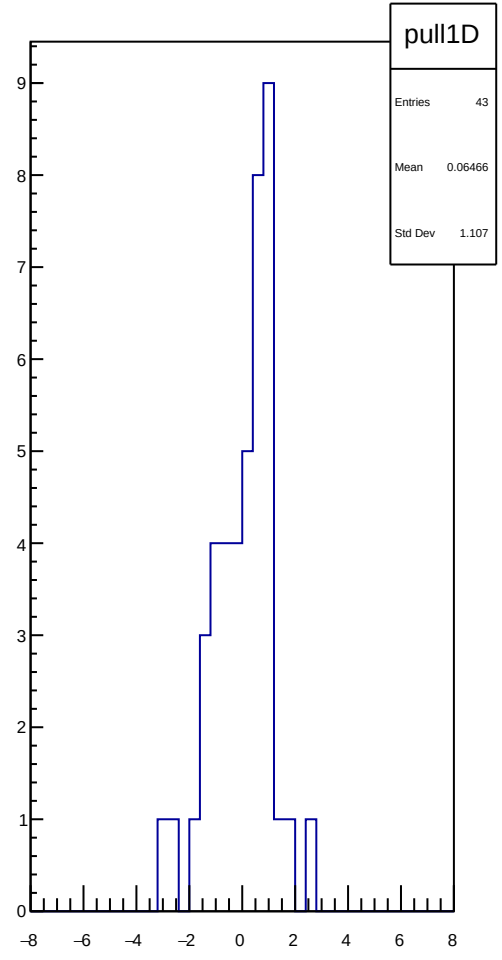

pull1D
Entries 43
Mean 0.06465
Std Dev 1.107
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

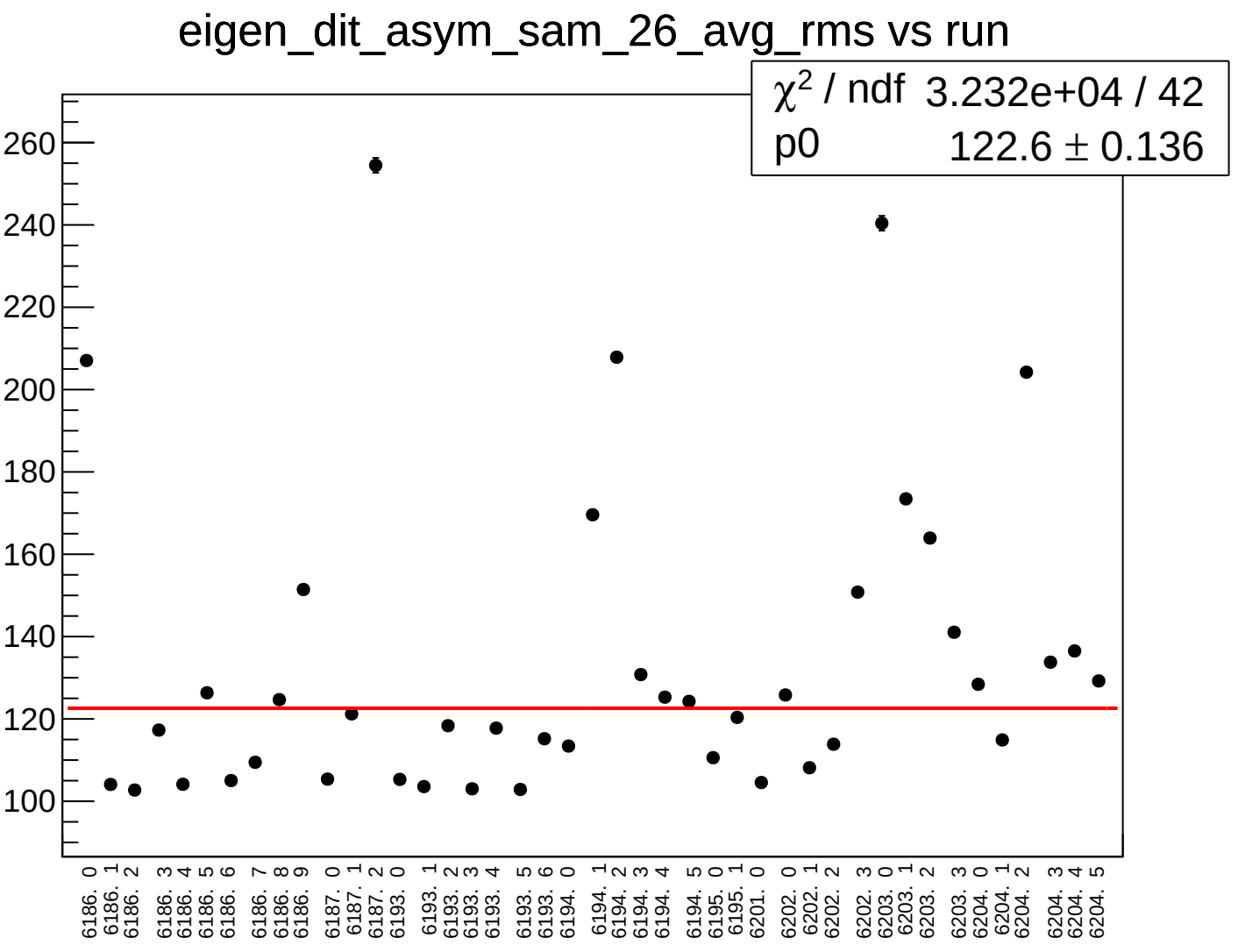

dit_asym_sam_26_avg_rms vs run
χ² / ndf 3.232e+04 / 42
p0 122.6 ± 0.136
260
240
220
200
180
160
140
120
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

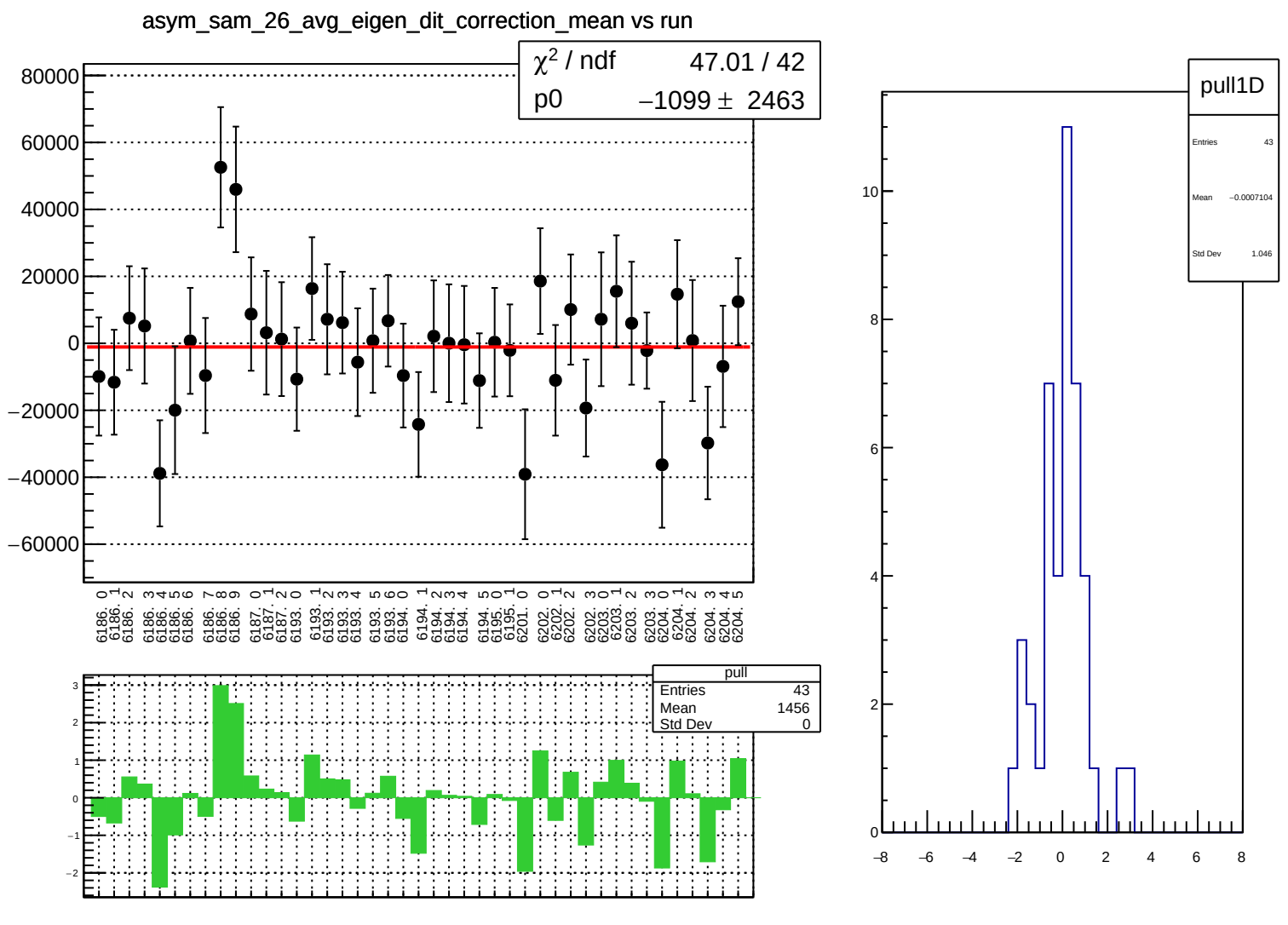

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 47.01 / 42
p0 −1099 ± 2463
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1456
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0007104
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

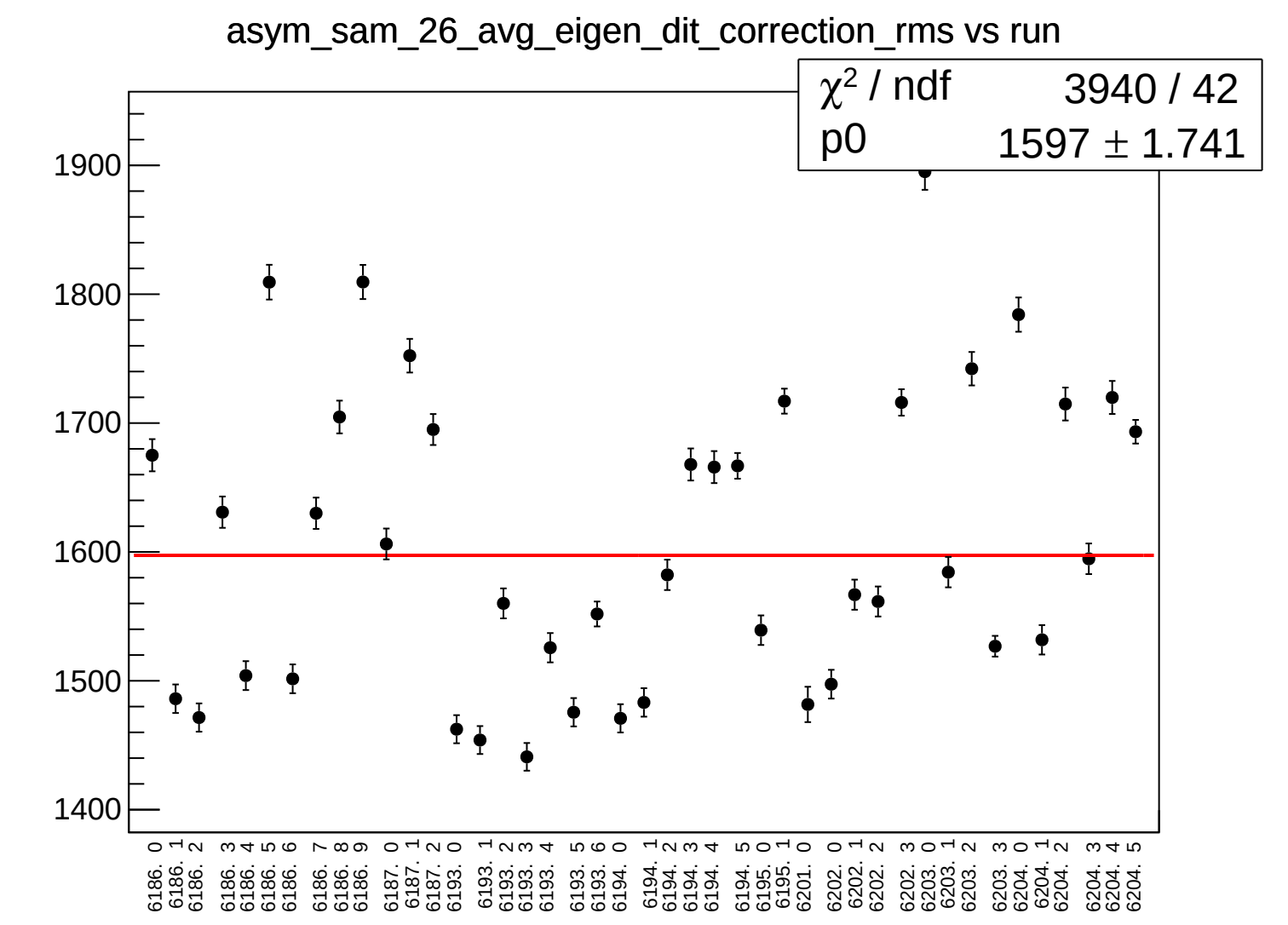

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 3940 / 42
p0 1597 ± 1.741
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

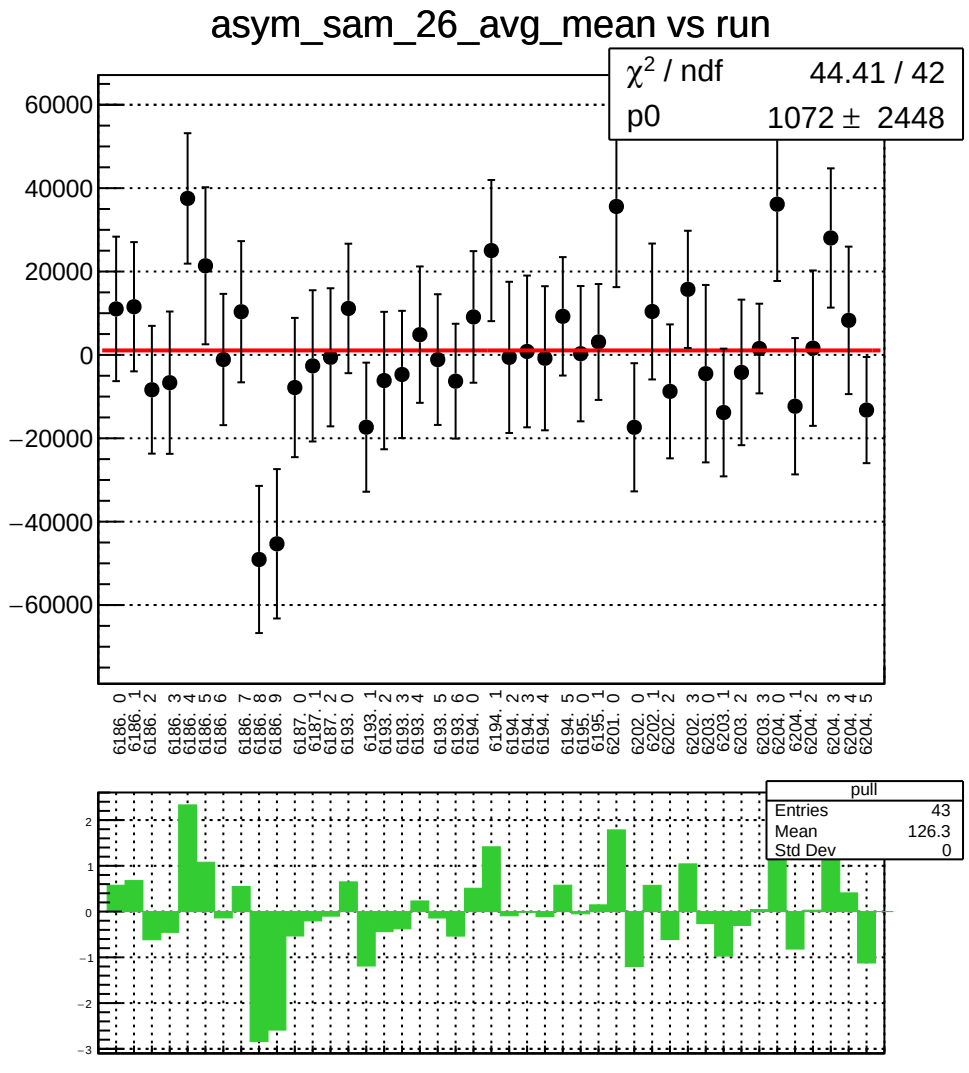

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 52.91 / 42
p0 69.12 ± 192.3
6000
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 19.02
Std Dev 12.05
2
1
0
−1
−2
−3

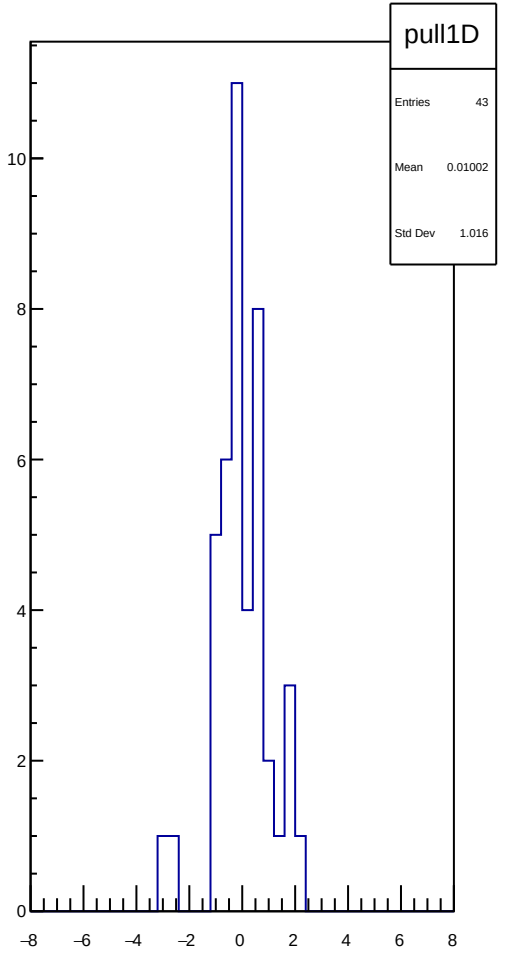

pull1D
Entries 43
Mean 0.06466
Std Dev 1.107
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

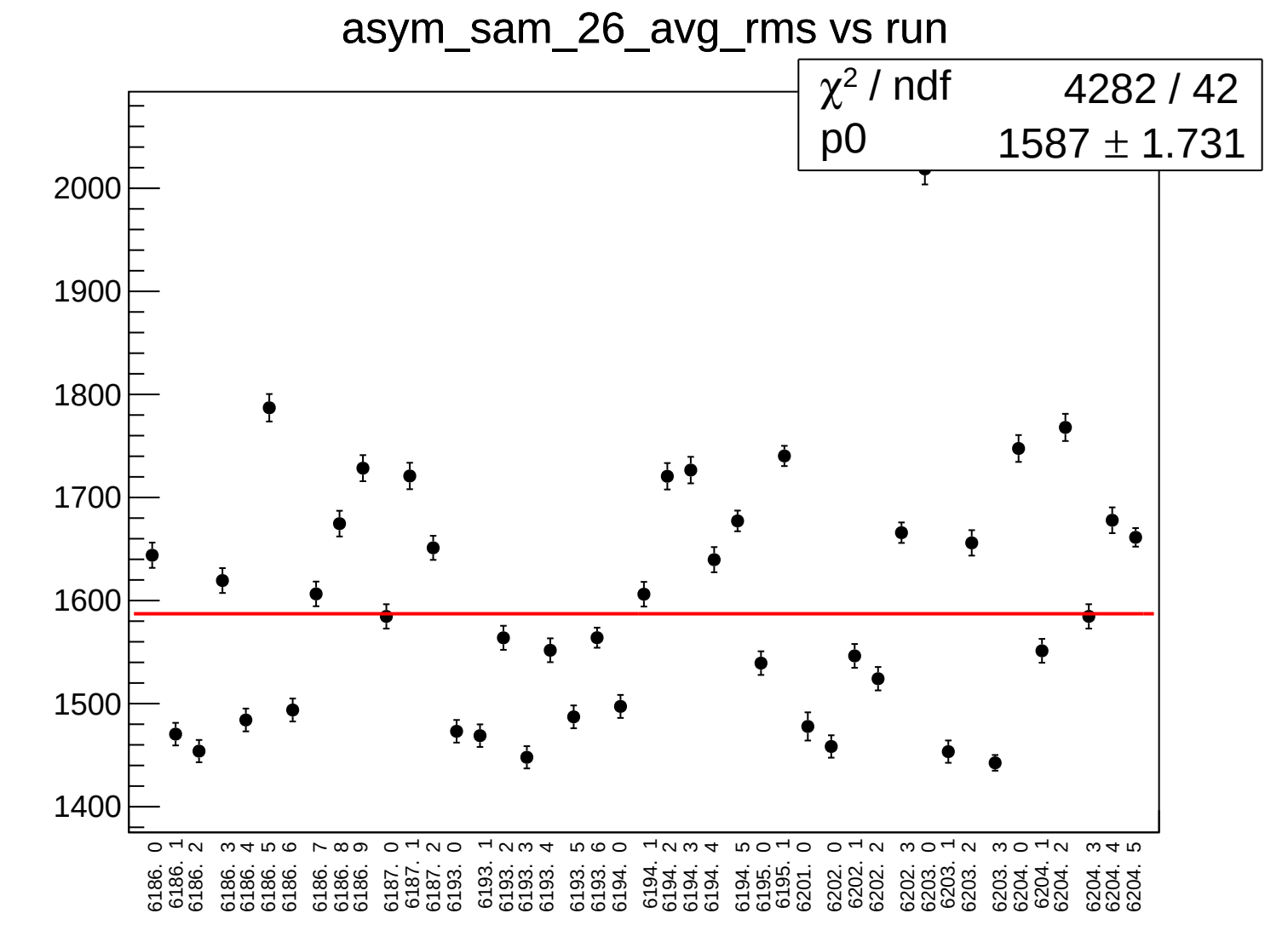

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 3.232e+04 / 42
p0 122.6 ± 0.136
260
240
220
200
180
160
140
120
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

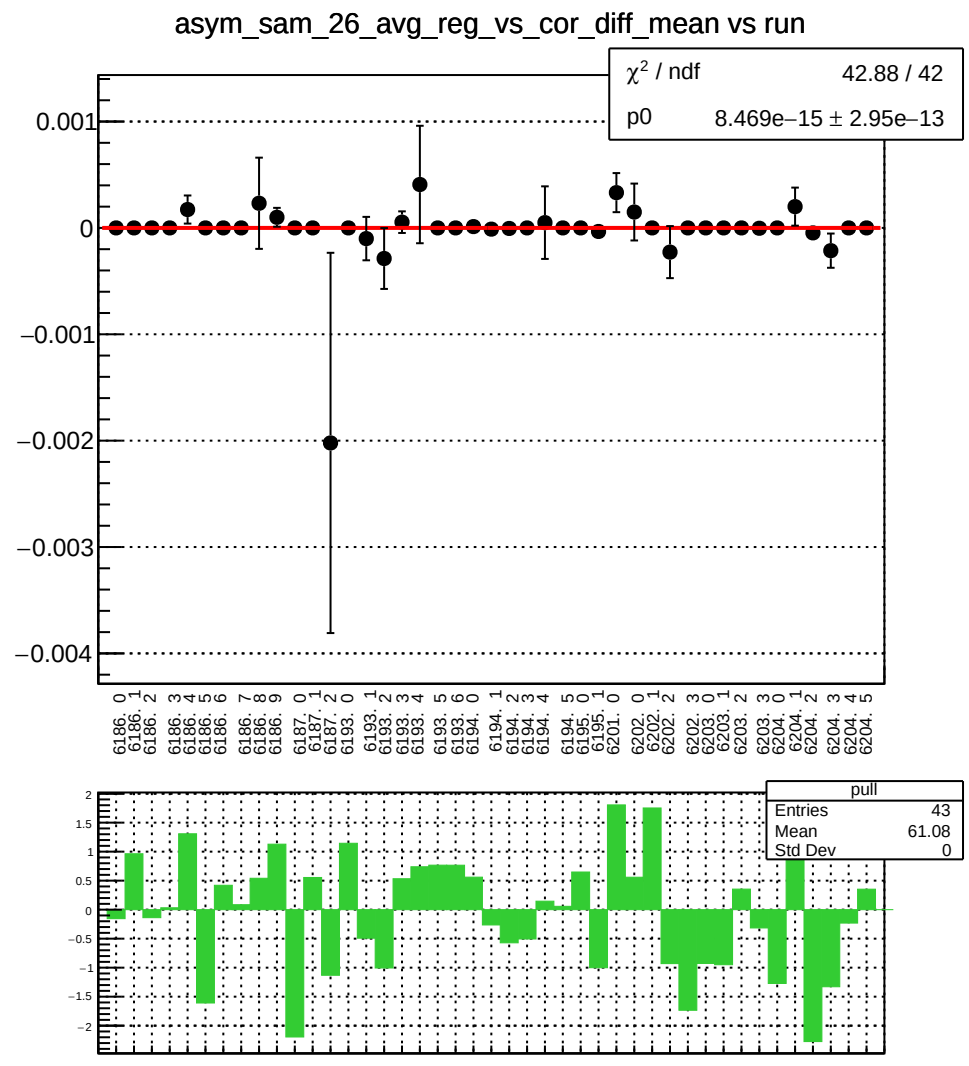

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 47.01 / 42
p0 −1099 ± 2463
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1456
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0007104
Std Dev 1.046
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

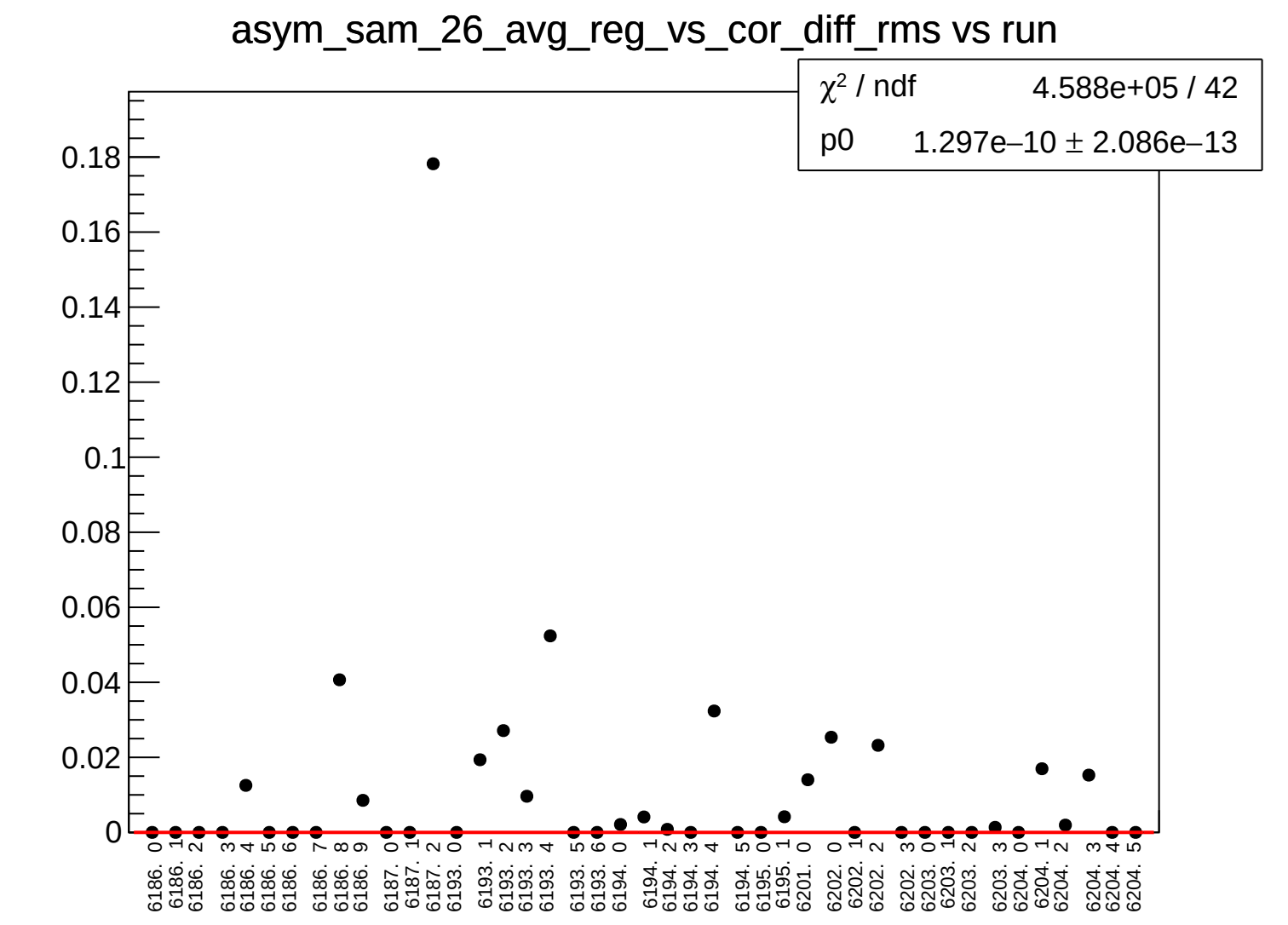

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 3940 / 42
p0 1597 ± 1.741
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

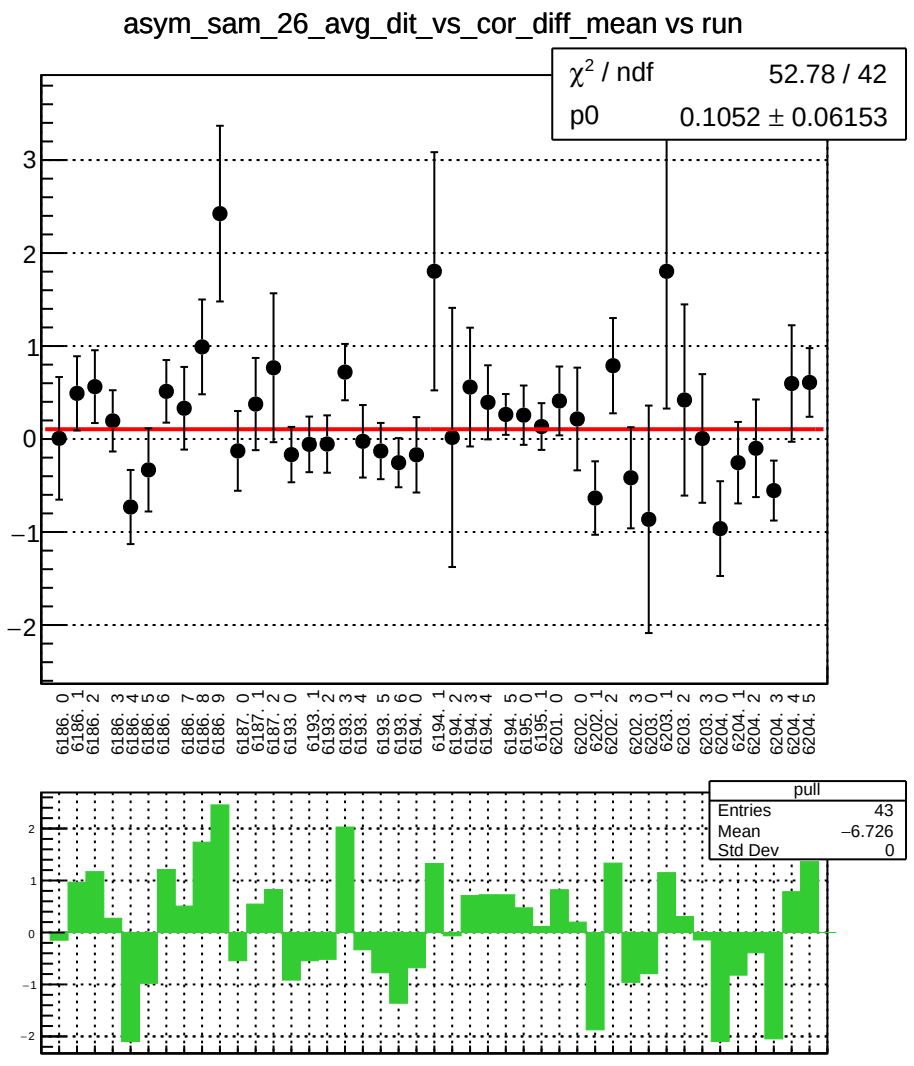

asym_sam_26_avg_mean vs run
χ² / ndf 44.41 / 42
p0 1072 ± 2448
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 126.3
Std Dev 0
2
1
0
−1
−2
−3

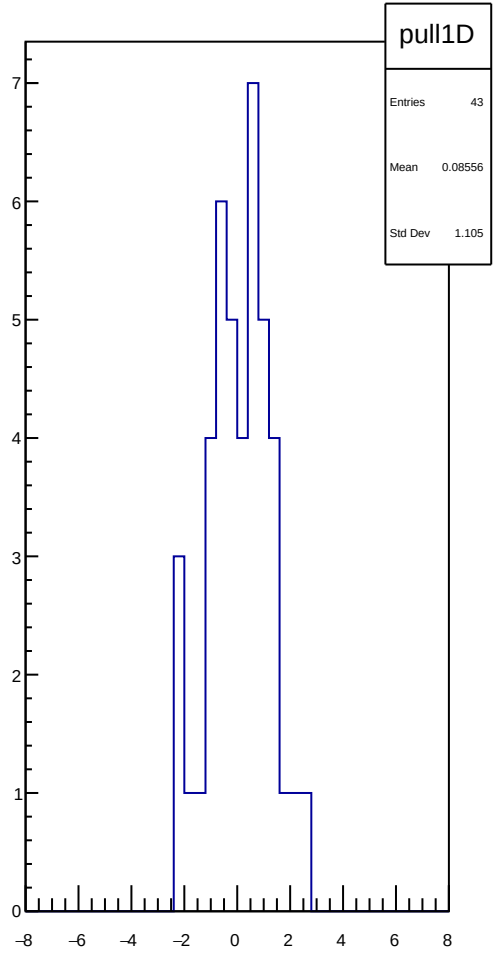

pull1D
Entries 43
Mean 0.01002
Std Dev 1.016
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

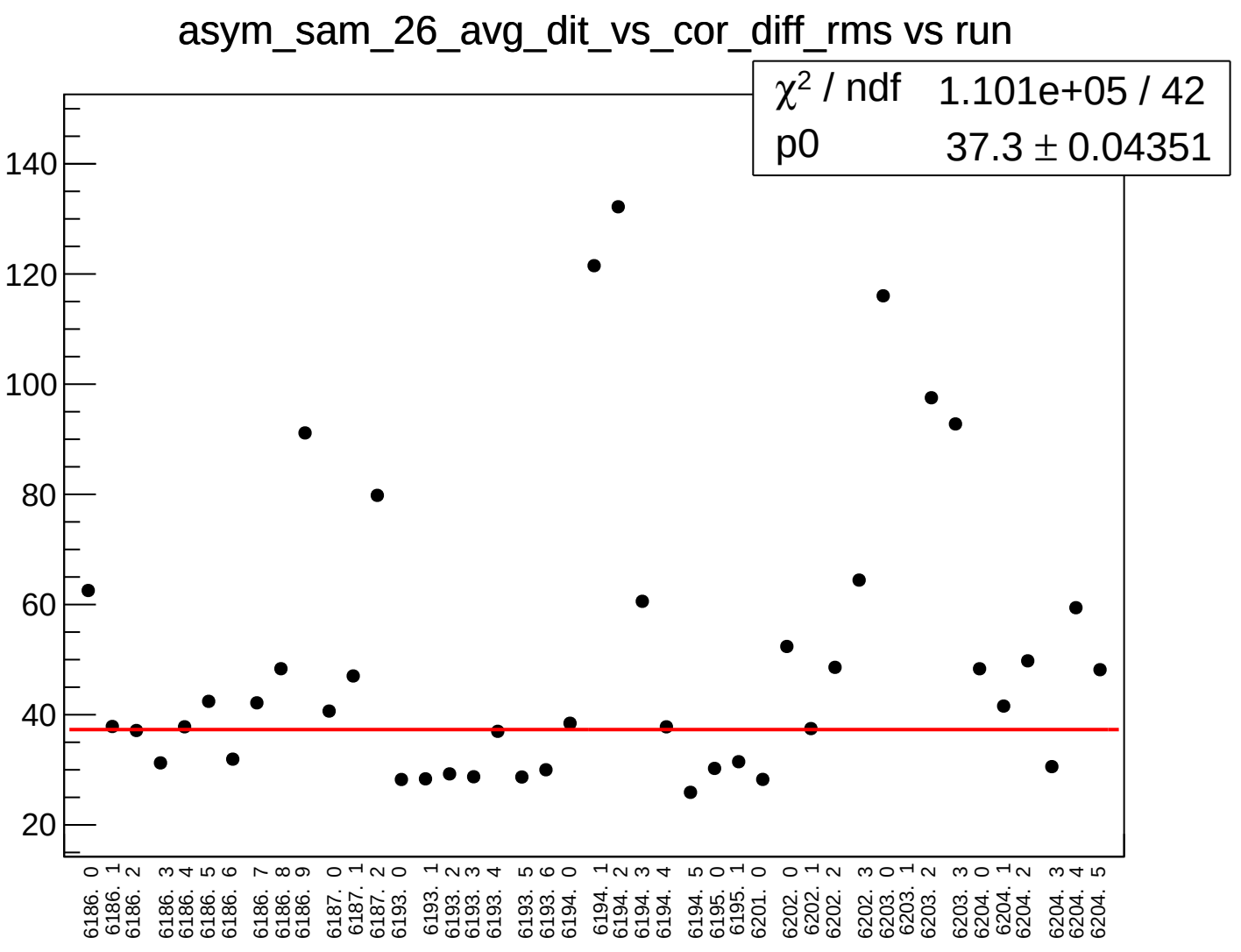

asym_sam_26_avg_rms vs run
χ² / ndf 4282 / 42
p0 1587 ± 1.731
2000
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 42.88 / 42
p0 8.469e−15 ± 2.95e−13
0.001
0
−0.001
−0.002
−0.003
−0.004
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 61.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.06261
Std Dev 0.9966
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.588e+05 / 42
p0 1.297e−10 ± 2.086e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 52.78 / 42
p0 0.1052 ± 0.06153
pull
Entries 43
Mean −6.726
Std Dev 0


pull1D
Entries 43
Mean 0.08556
Std Dev 1.105


asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.101e+05 / 42
p0 37.3 ± 0.04351
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
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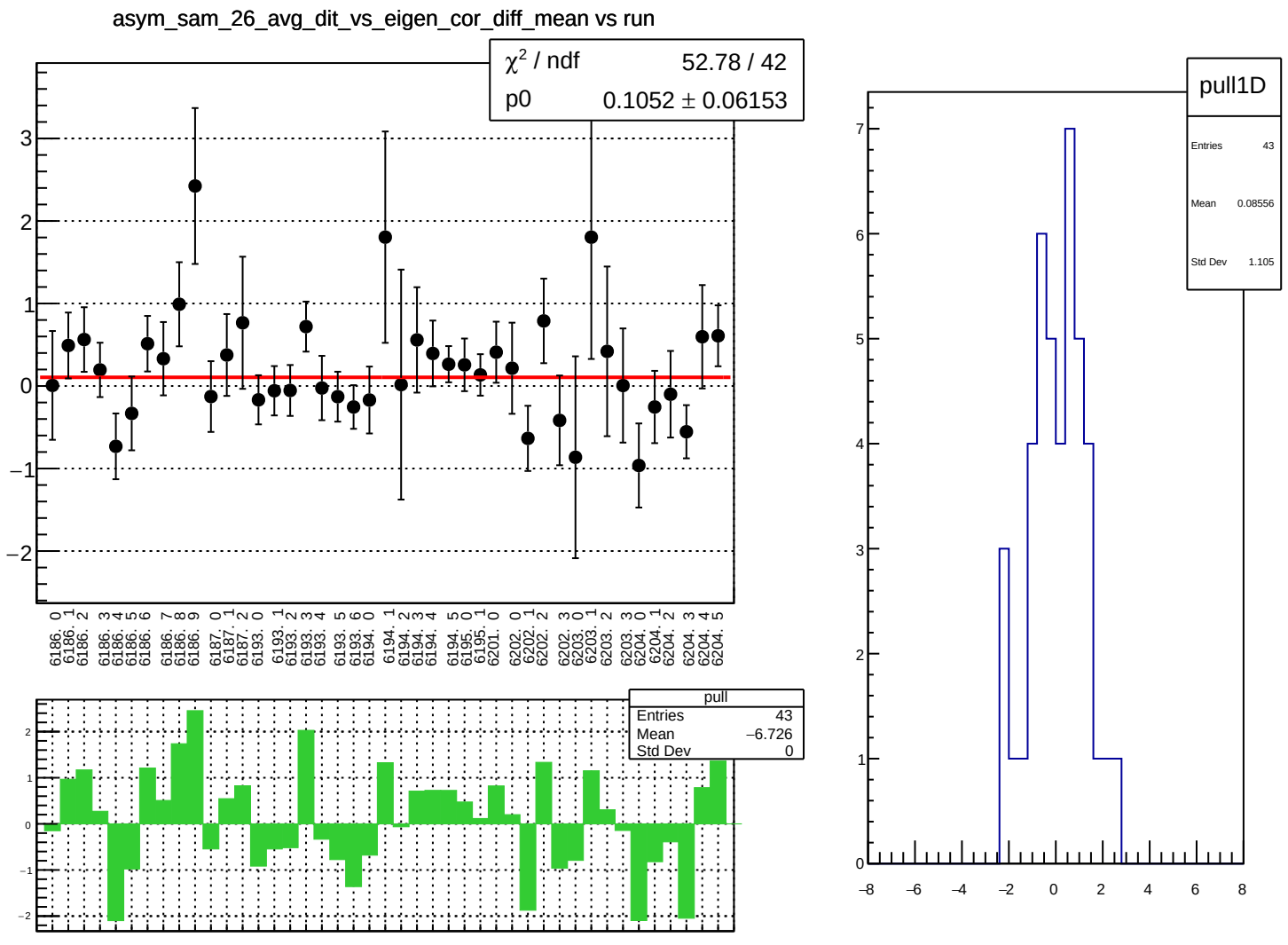
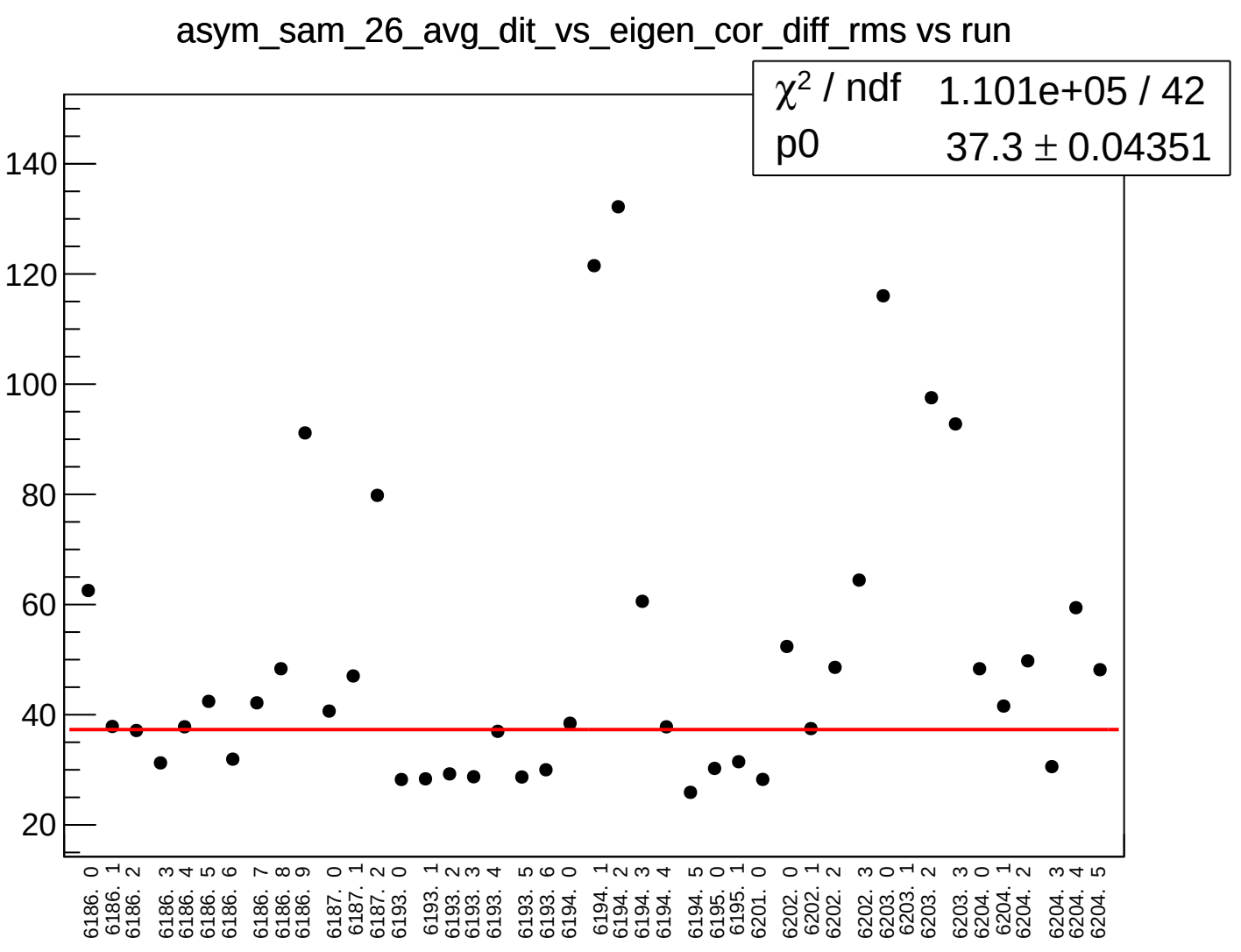
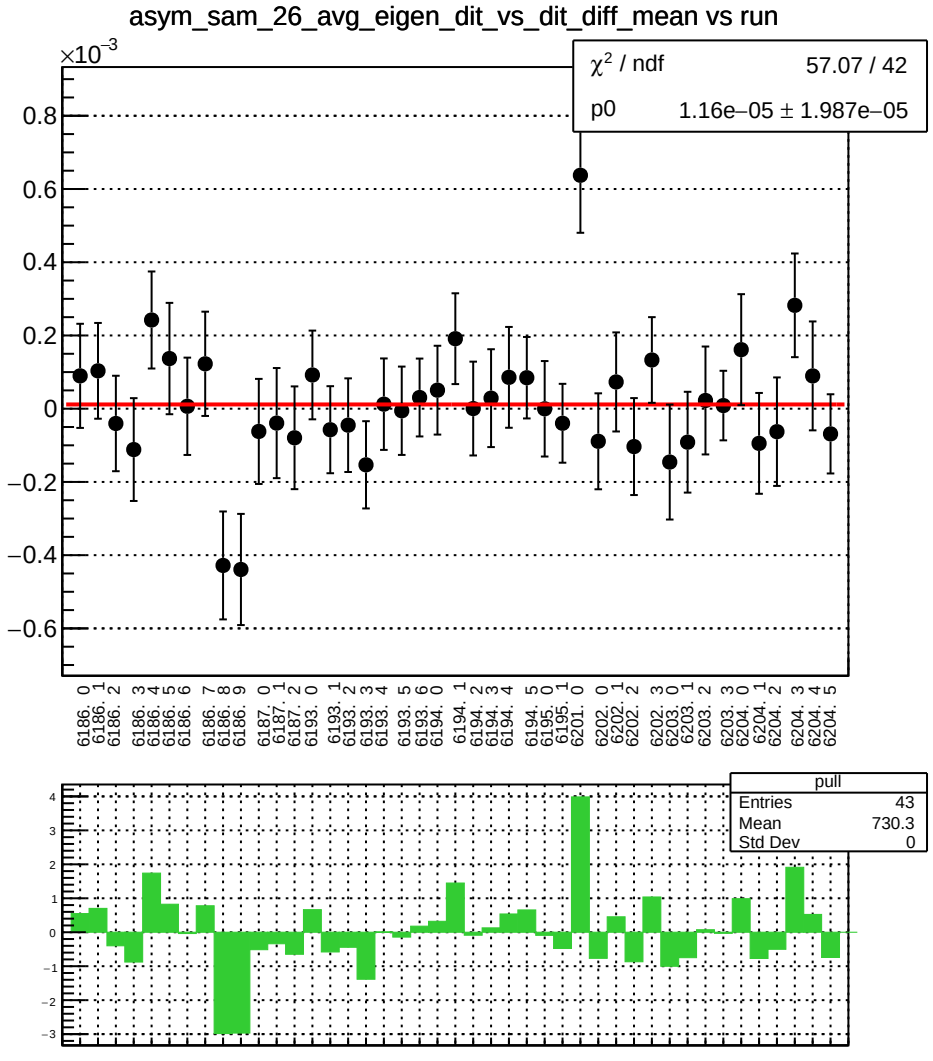
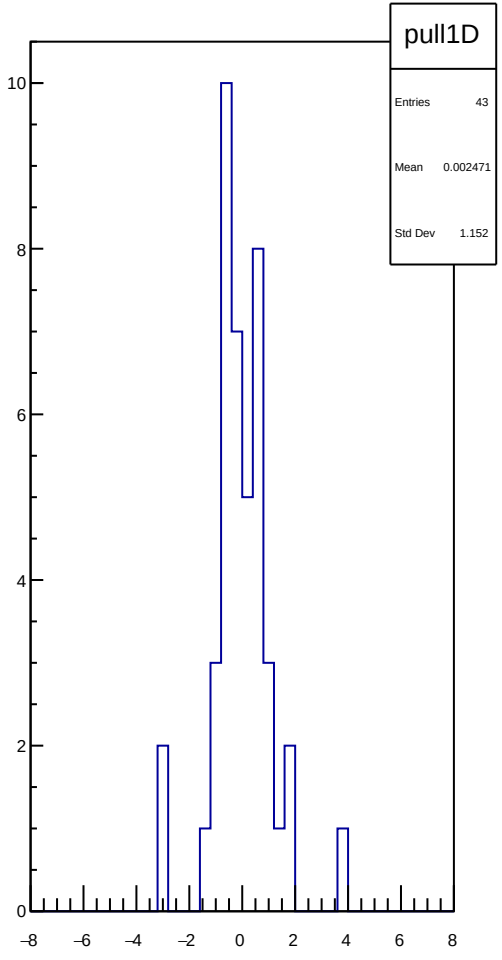
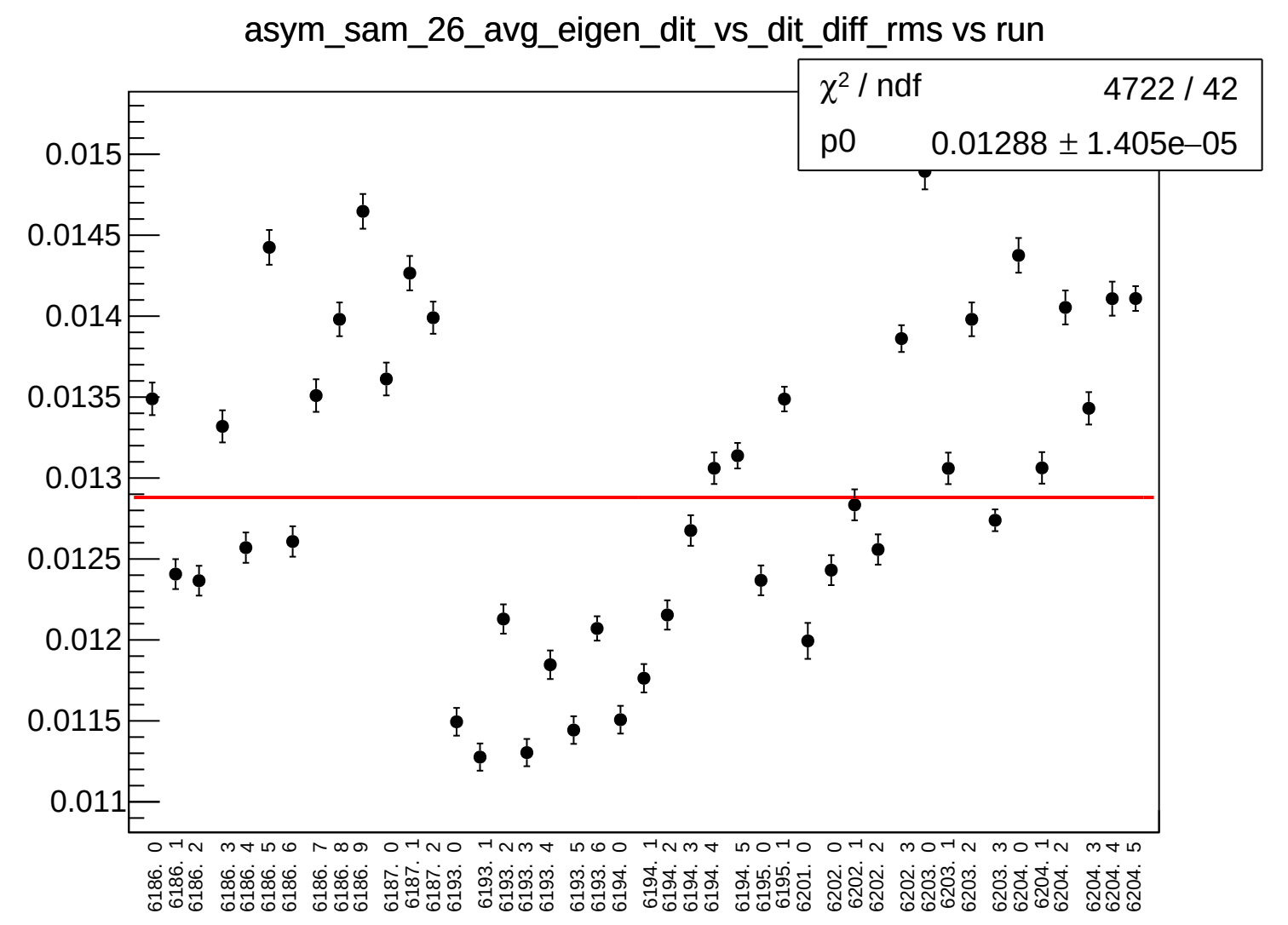
6204. 5

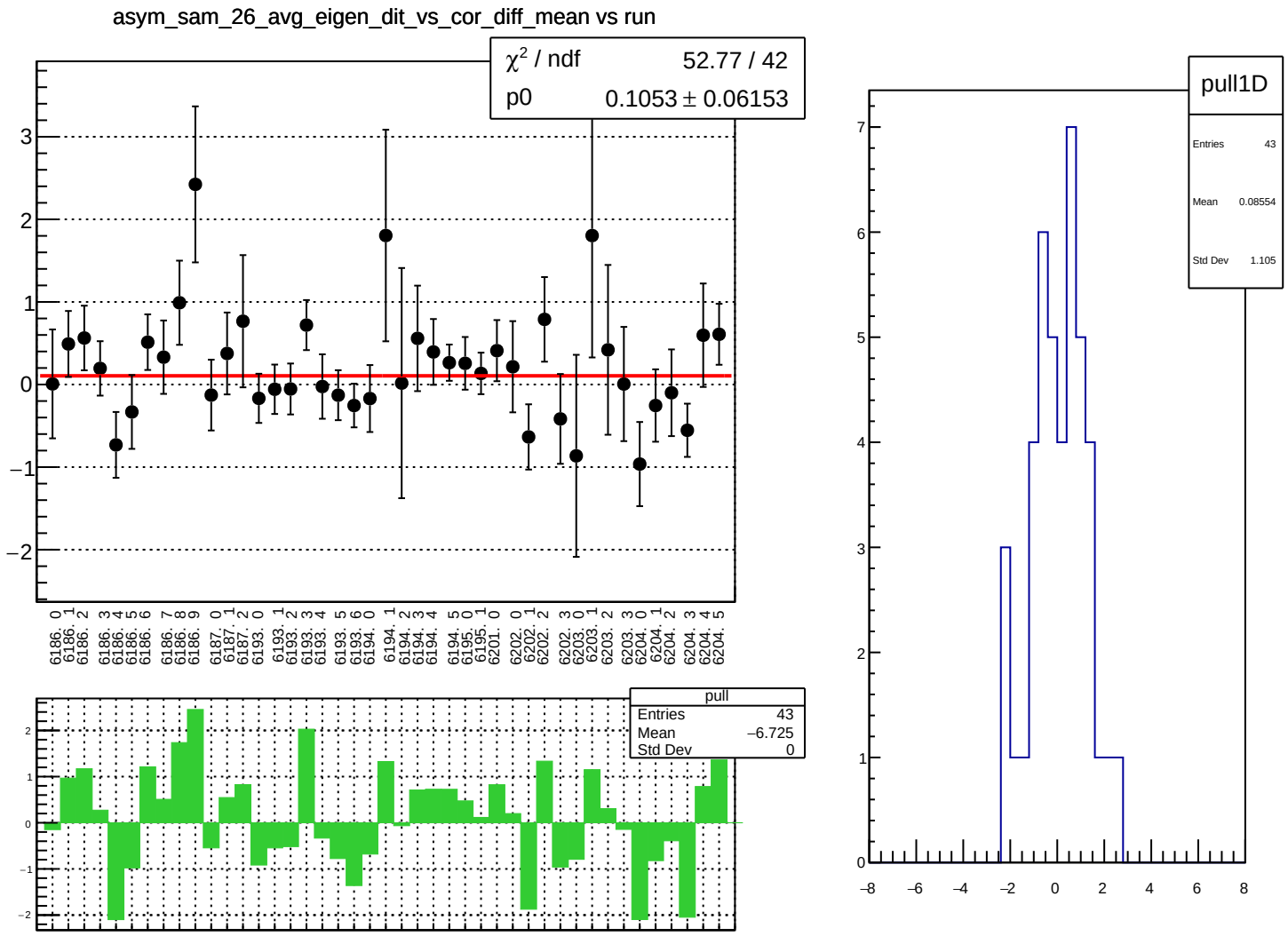

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.78 / 42
p0 0.1052 ± 0.06153
pull
Entries 43
Mean −6.726
Std Dev 0
pull1D
Entries 43
Mean 0.08556
Std Dev 1.105

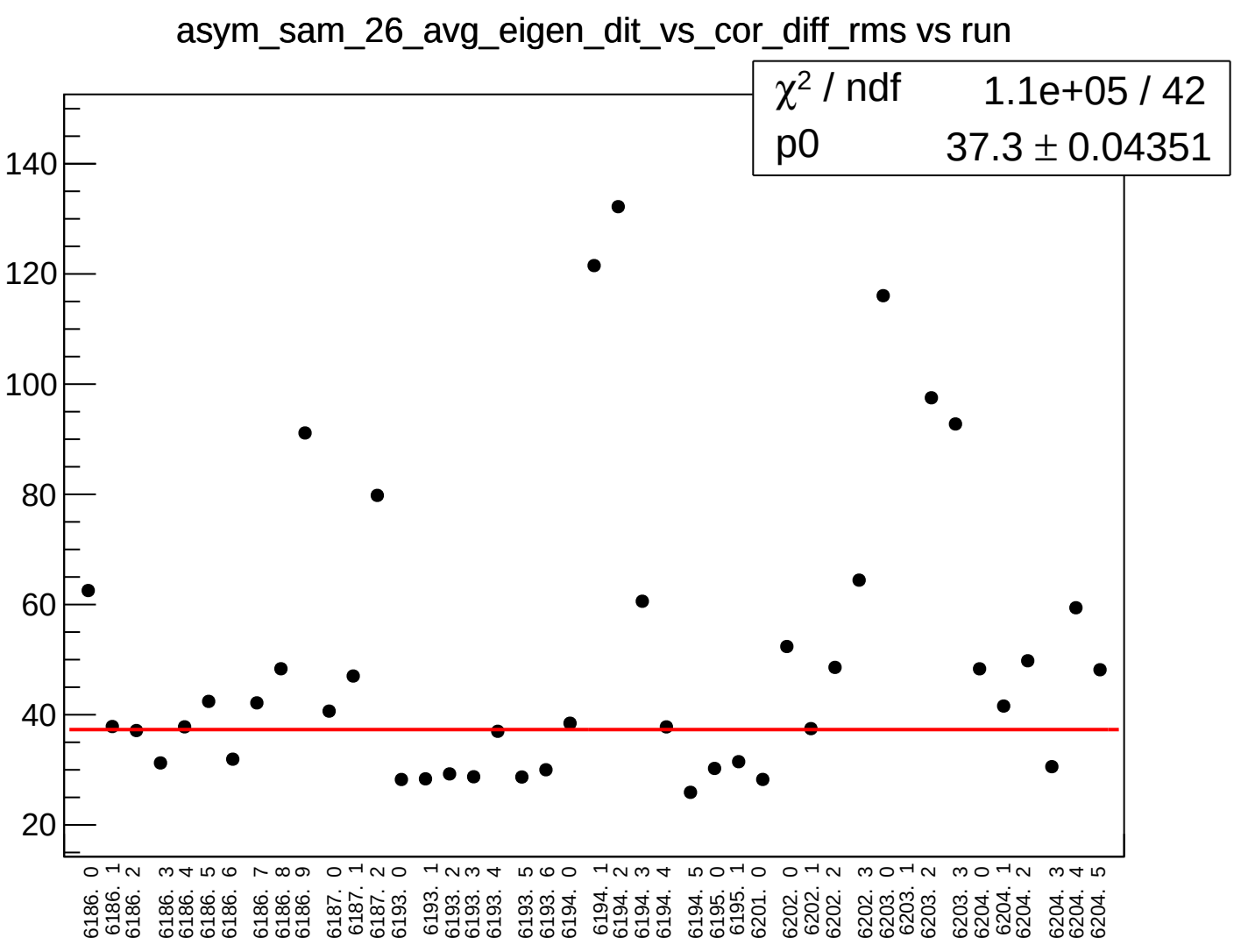

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.101e+05 / 42
p0 37.3 ± 0.04351
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

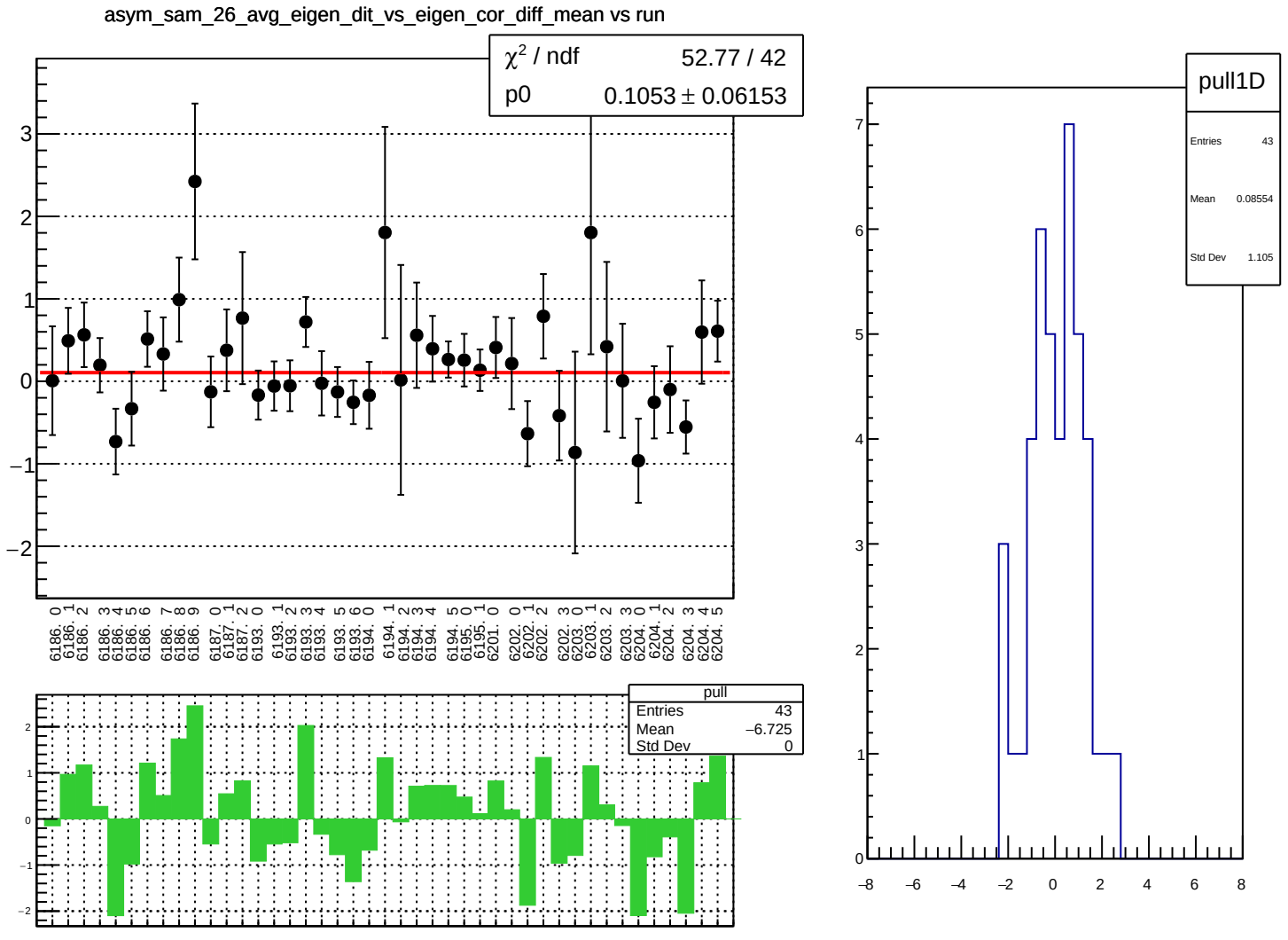

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 57.07 / 42
p0 1.16e−05 ± 1.987e−05
pull
Entries 43
Mean 730.3
Std Dev 0

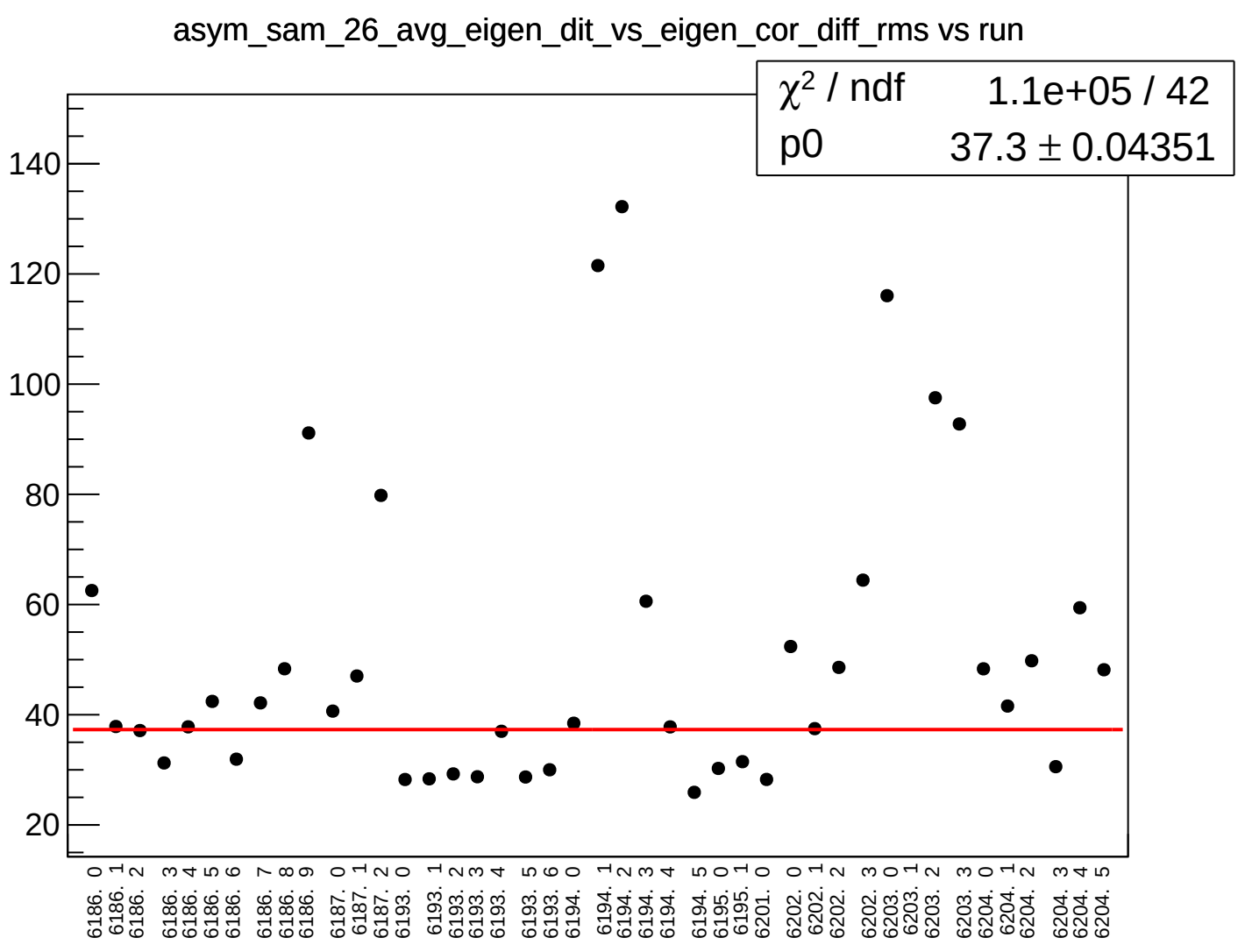

pull1D
Entries 43
Mean 0.002471
Std Dev 1.152

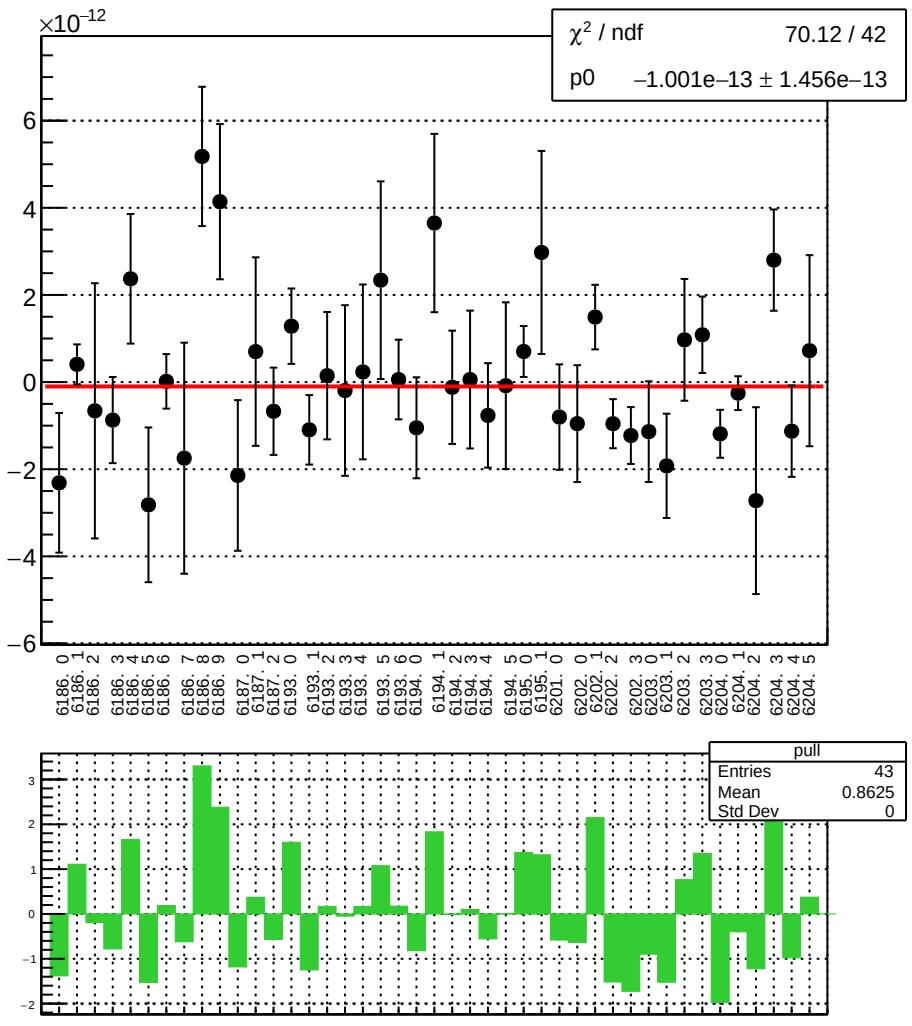

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4722 / 42
p0 0.01288 ± 1.405e−05
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

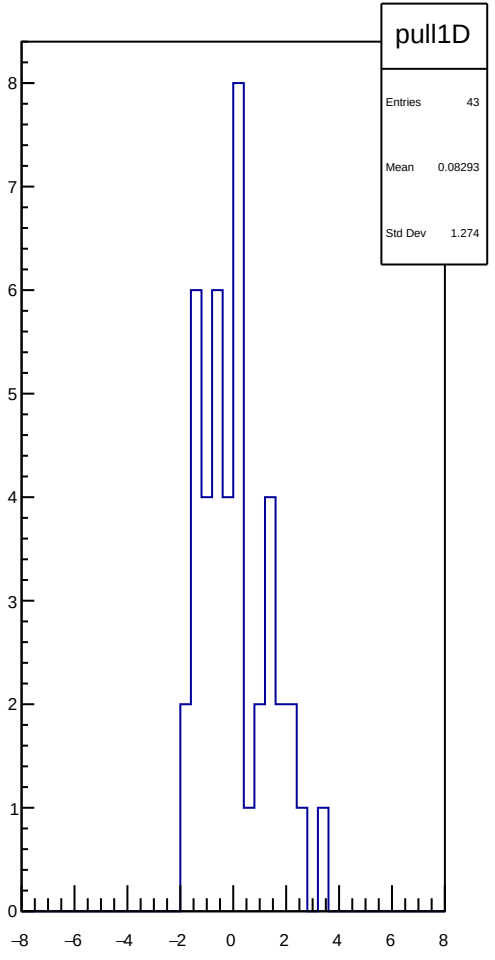

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.77 / 42
p0 0.1053 ± 0.06153
3
2
1
0
−1
−2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −6.725
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.08554
Std Dev 1.105
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

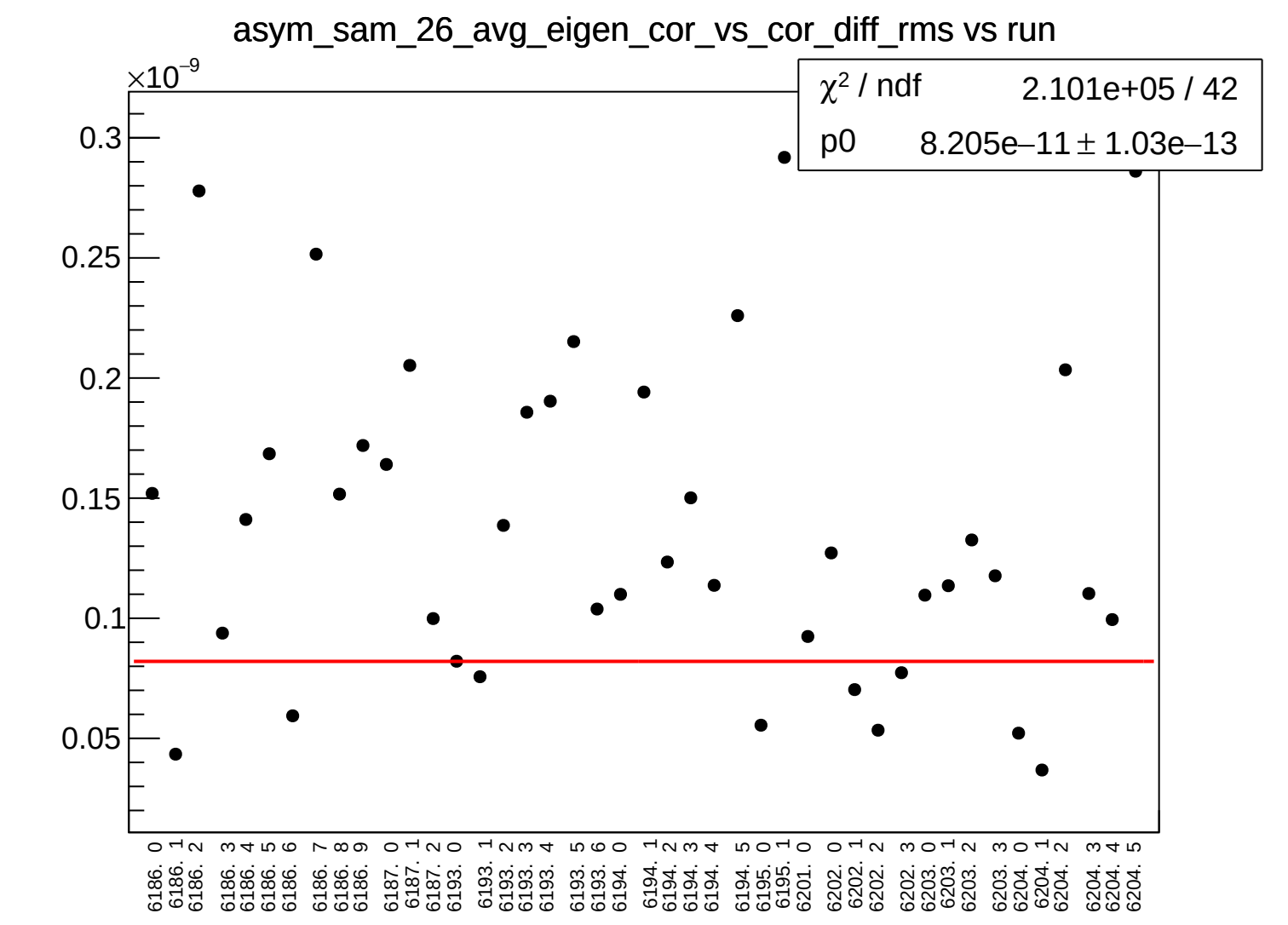

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.1e+05 / 42
p0 37.3 ± 0.04351
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

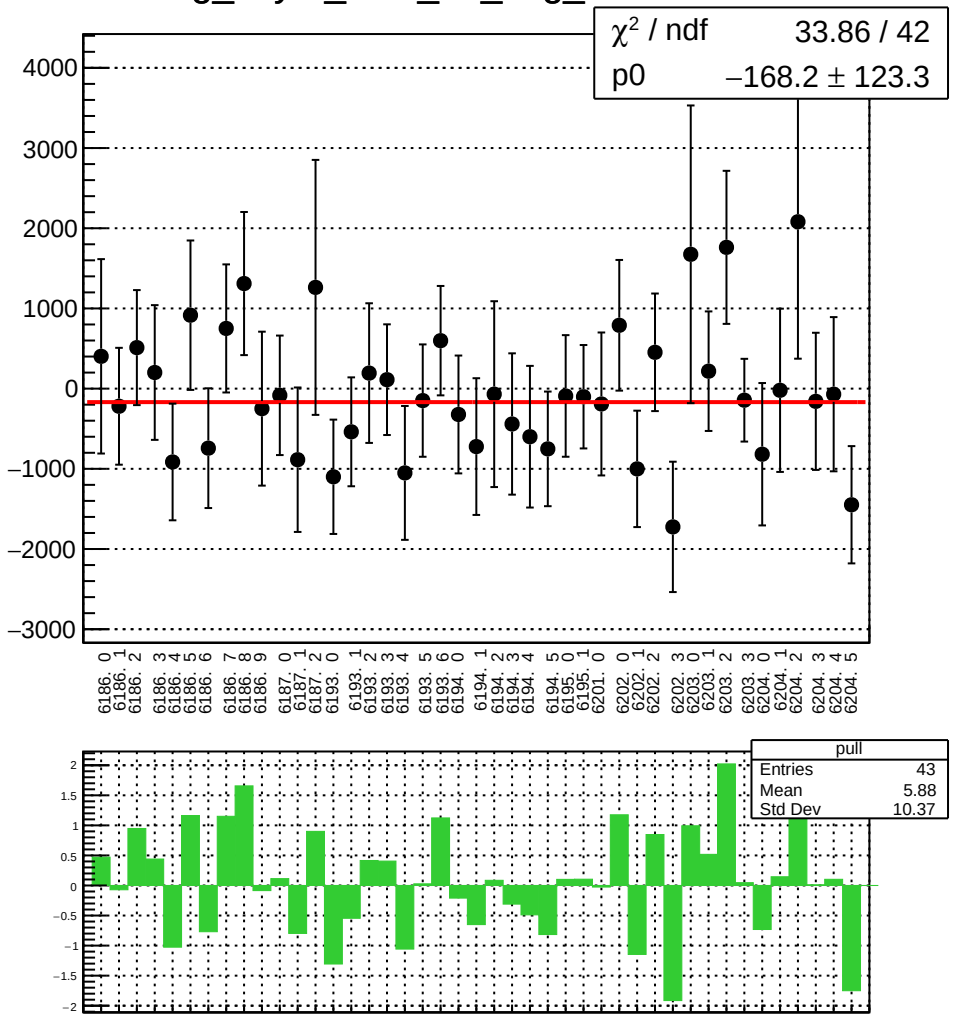

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.77 / 42
p0 0.1053 ± 0.06153
pull
Entries 43
Mean −6.725
Std Dev 0
pull1D
Entries 43
Mean 0.08554
Std Dev 1.105

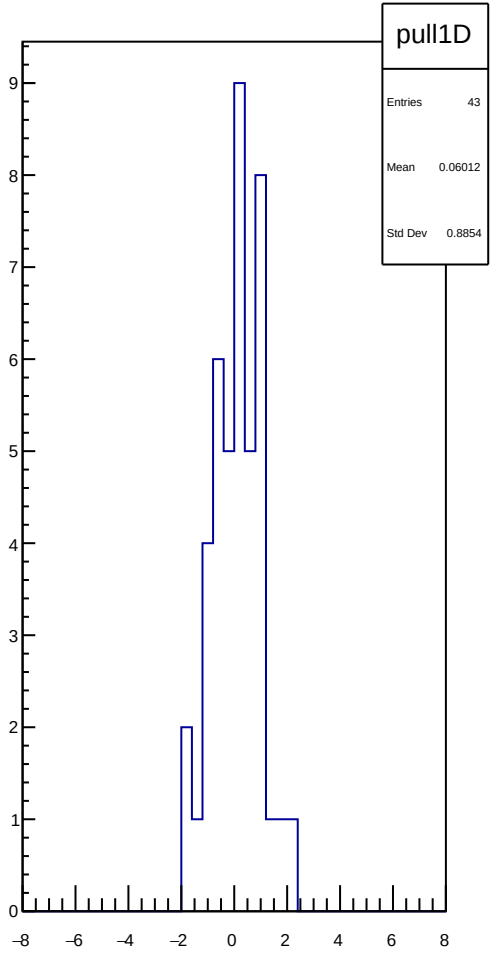

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.1e+05 / 42
p0 37.3 ± 0.04351
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

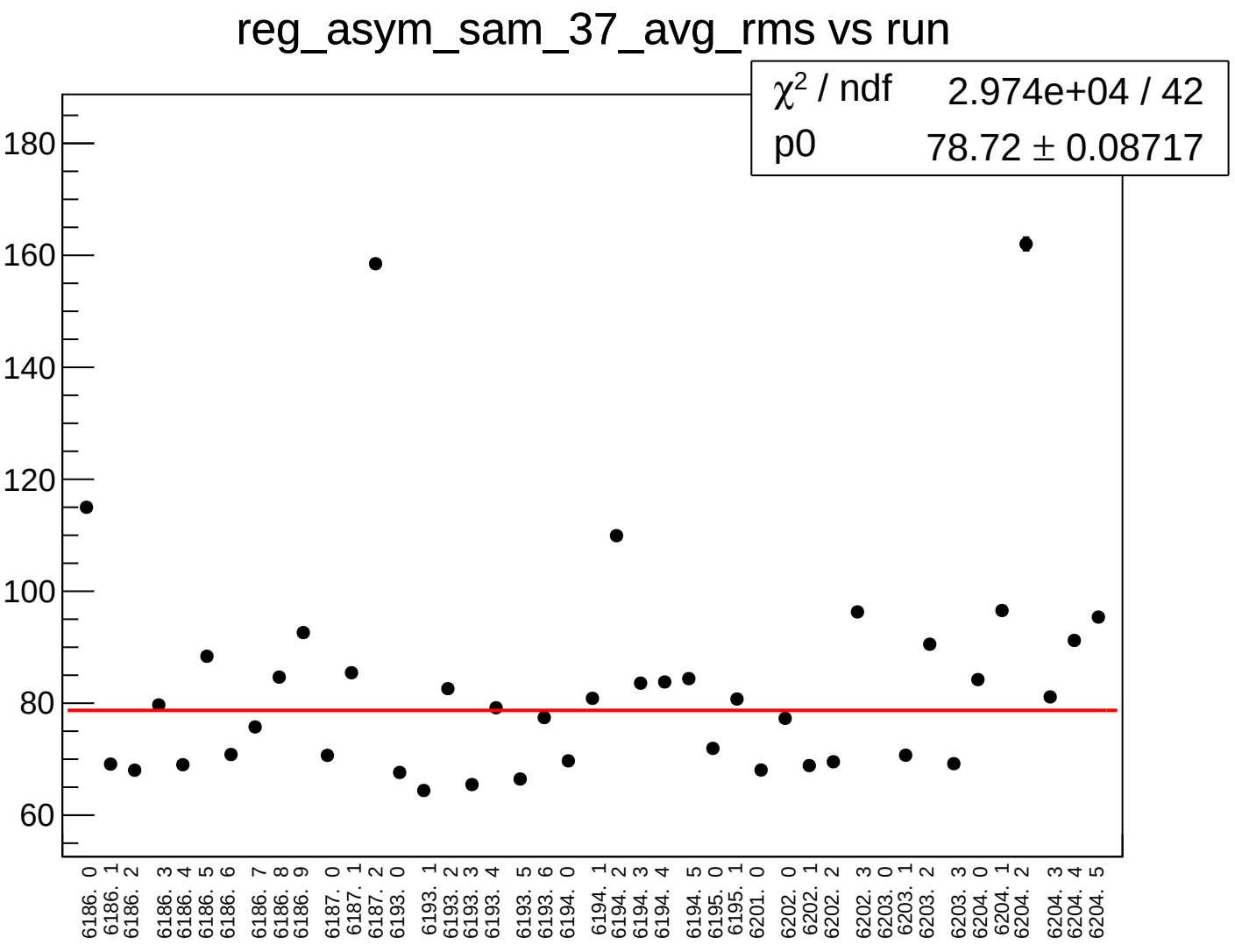

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.12 / 42
p0 −1.001e−13 ± 1.456e−13
pull
Entries 43
Mean 0.8625
Std Dev 0

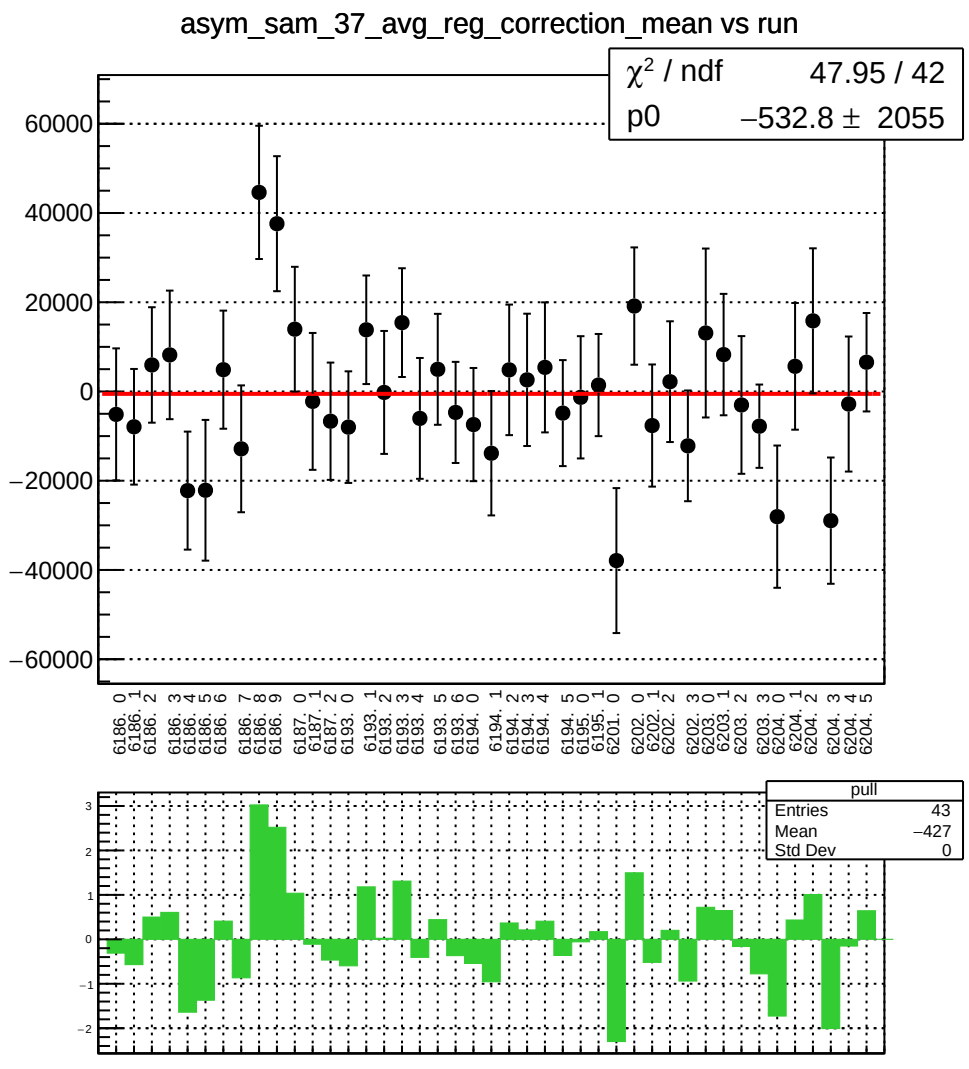

pull1D
Entries 43
Mean 0.08293
Std Dev 1.274

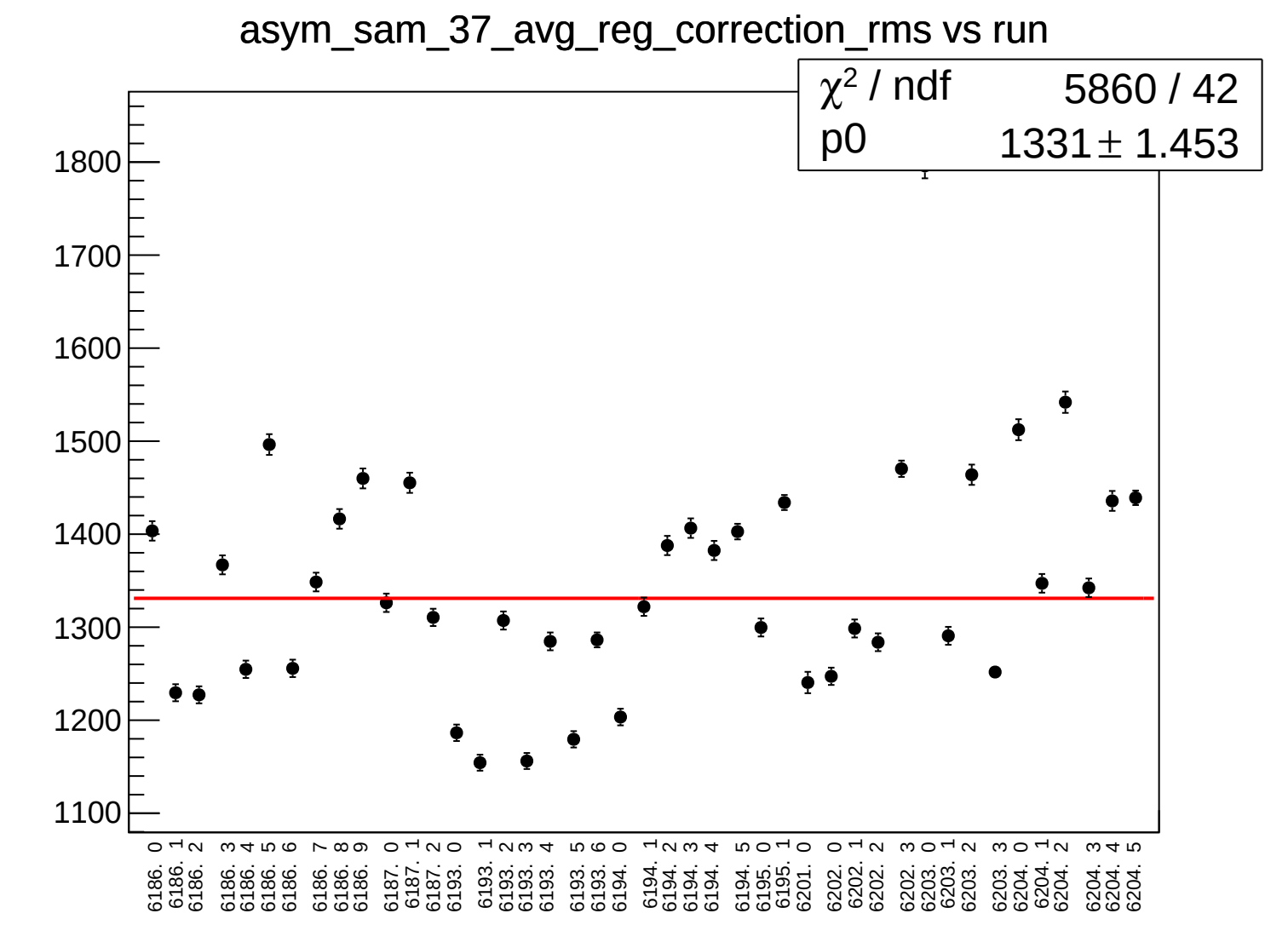

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.101e+05 / 42
p0 8.205e−11 ± 1.03e−13
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

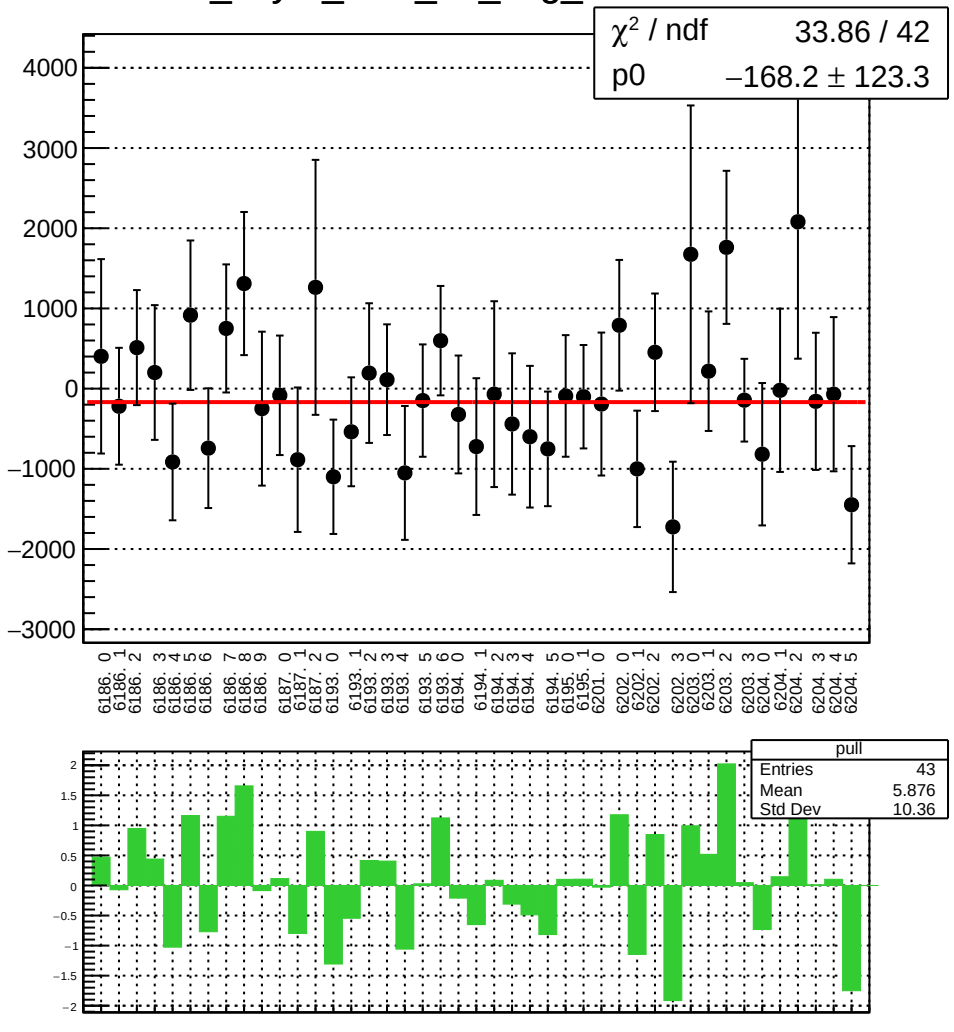

reg_asym_sam_37_avg_mean vs run
χ² / ndf 33.86 / 42
p0 −168.2 ± 123.3
pull
Entries 43
Mean 5.88
Std Dev 10.37

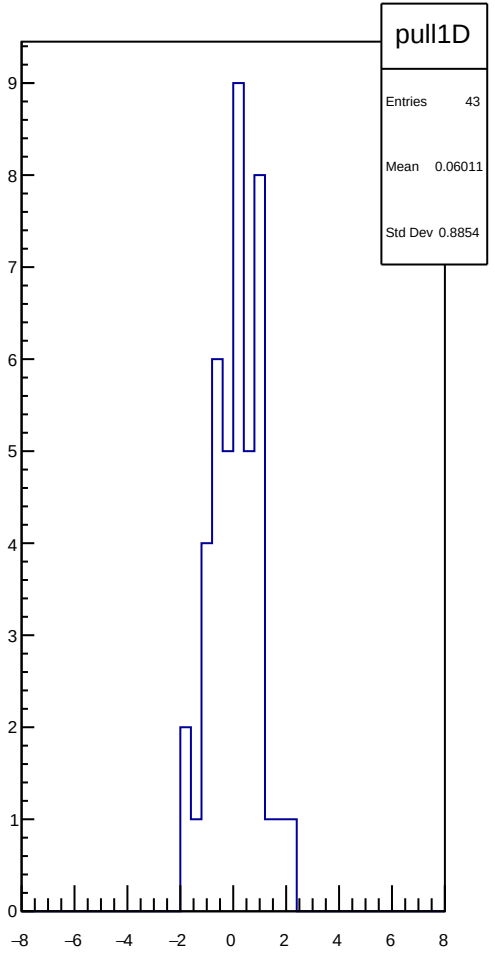

pull1D
Entries 43
Mean 0.06012
Std Dev 0.8854

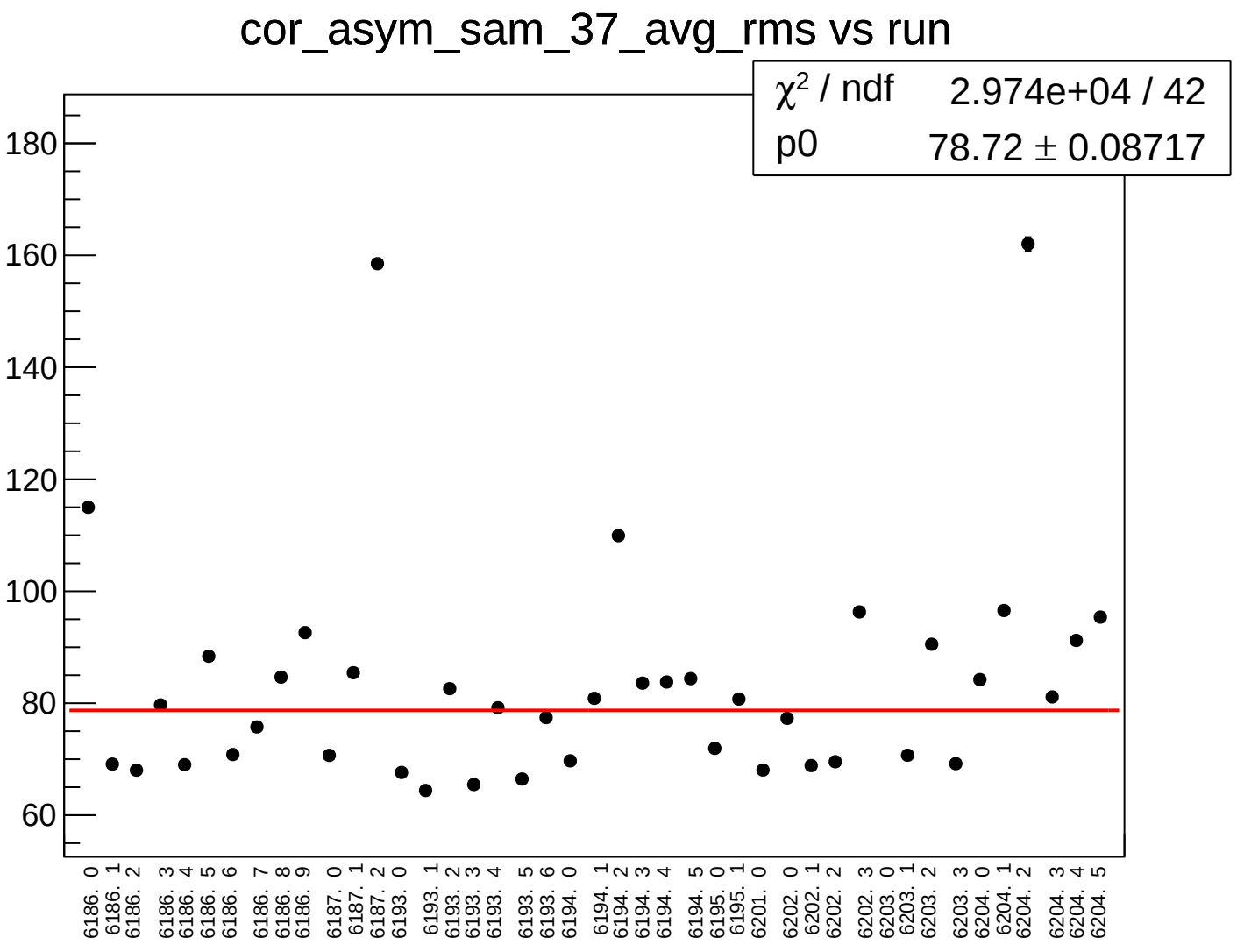

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.974e+04 / 42
p0 78.72 ± 0.08717
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

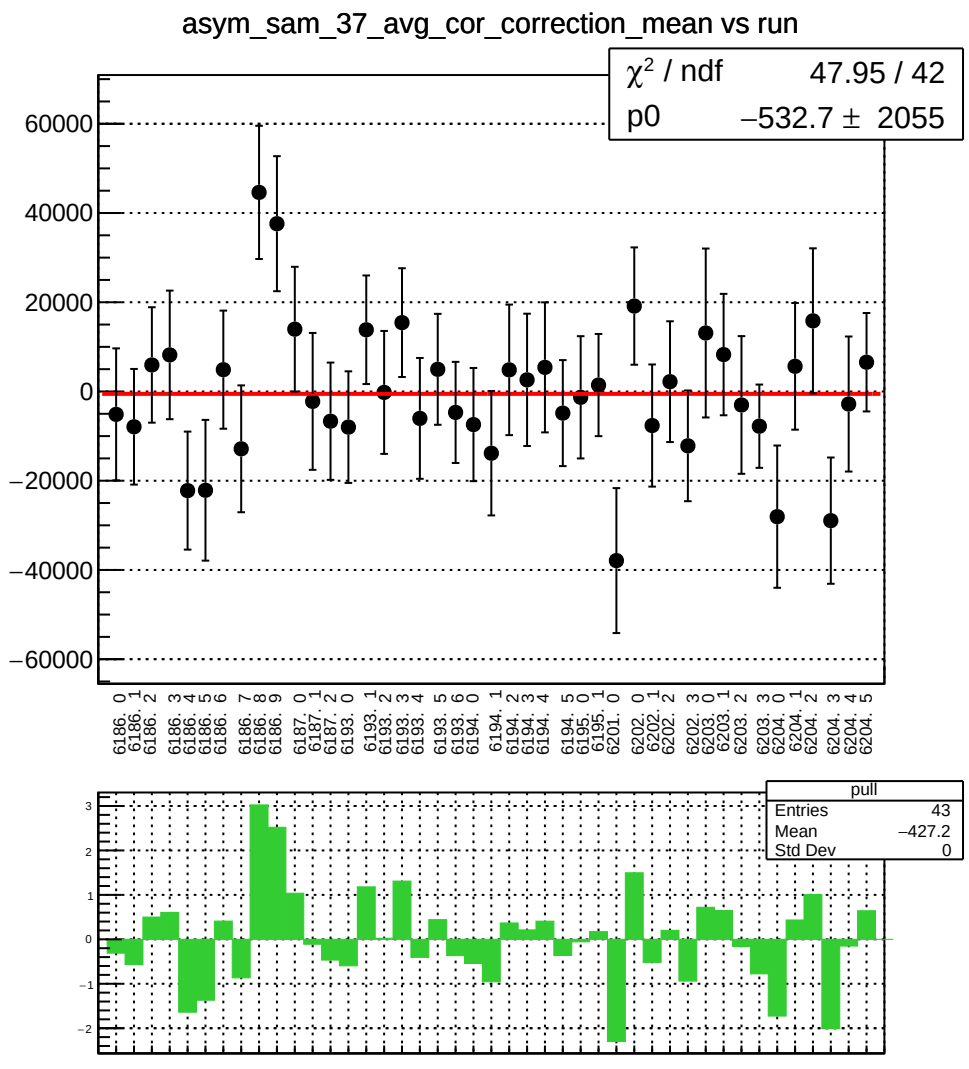

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 47.95 / 42
p0 −532.8 ± 2055
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −427
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.003807
Std Dev 1.056
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

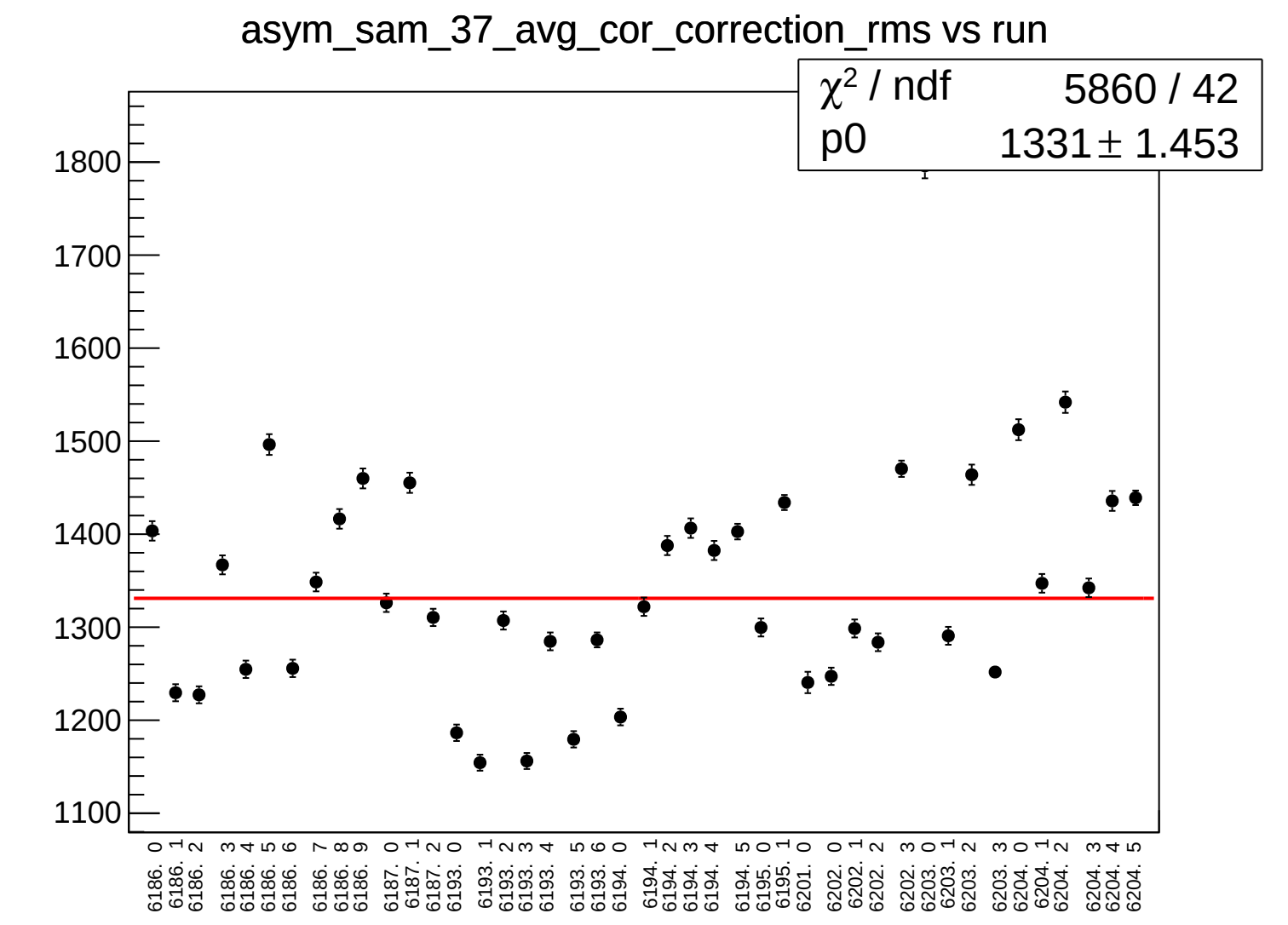

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 5860 / 42
p0 1331 ± 1.453
1800
1700
1600
1500
1400
1300
1200
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

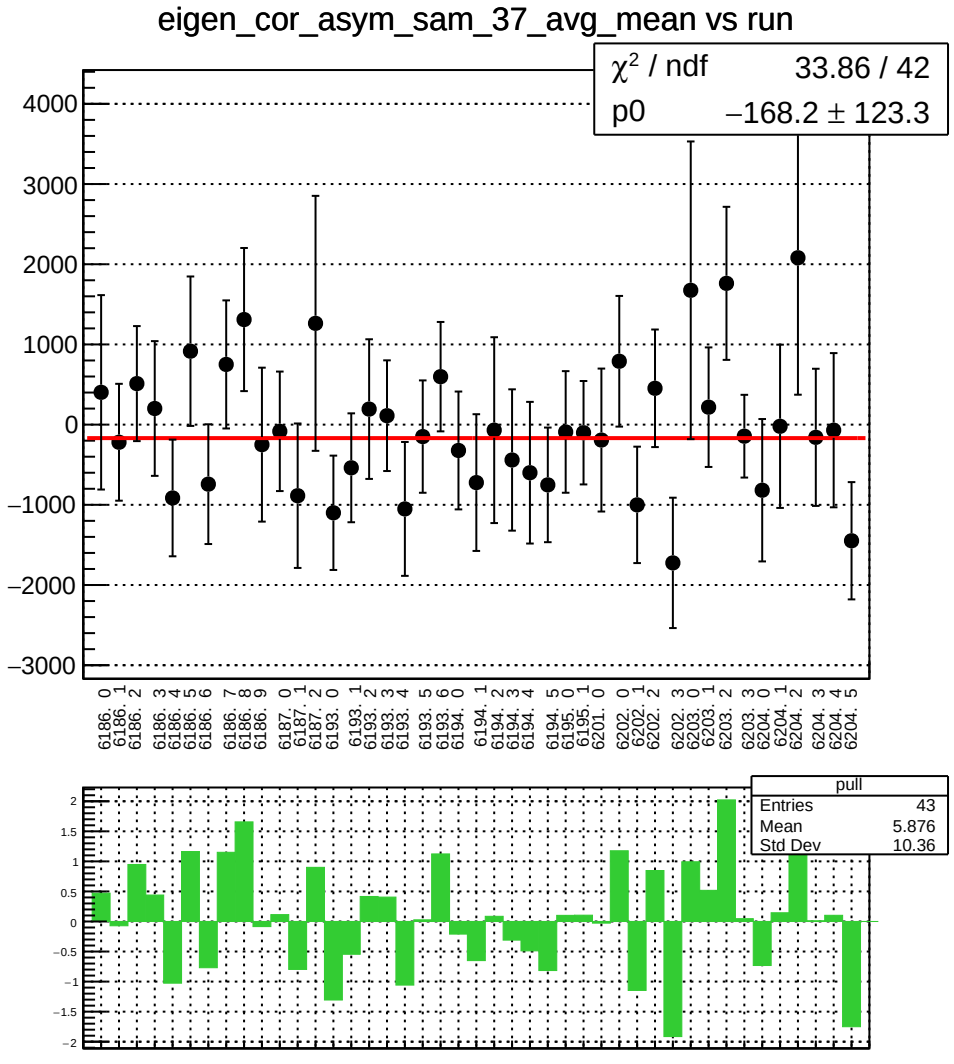

cor_asym_sam_37_avg_mean vs run
χ² / ndf 33.86 / 42
p0 −168.2 ± 123.3
pull
Entries 43
Mean 5.876
Std Dev 10.36

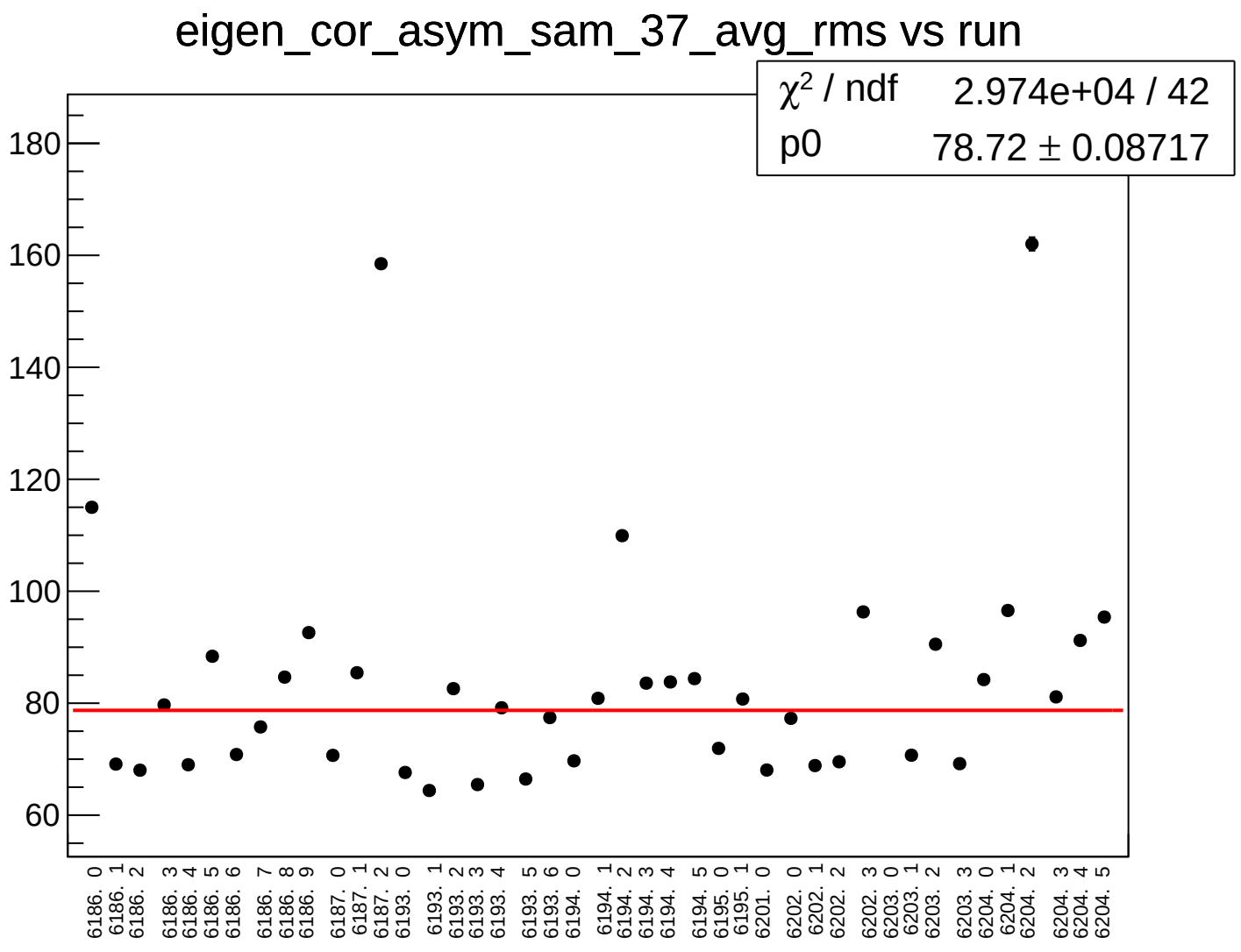

pull1D
Entries 43
Mean 0.06011
Std Dev 0.8854

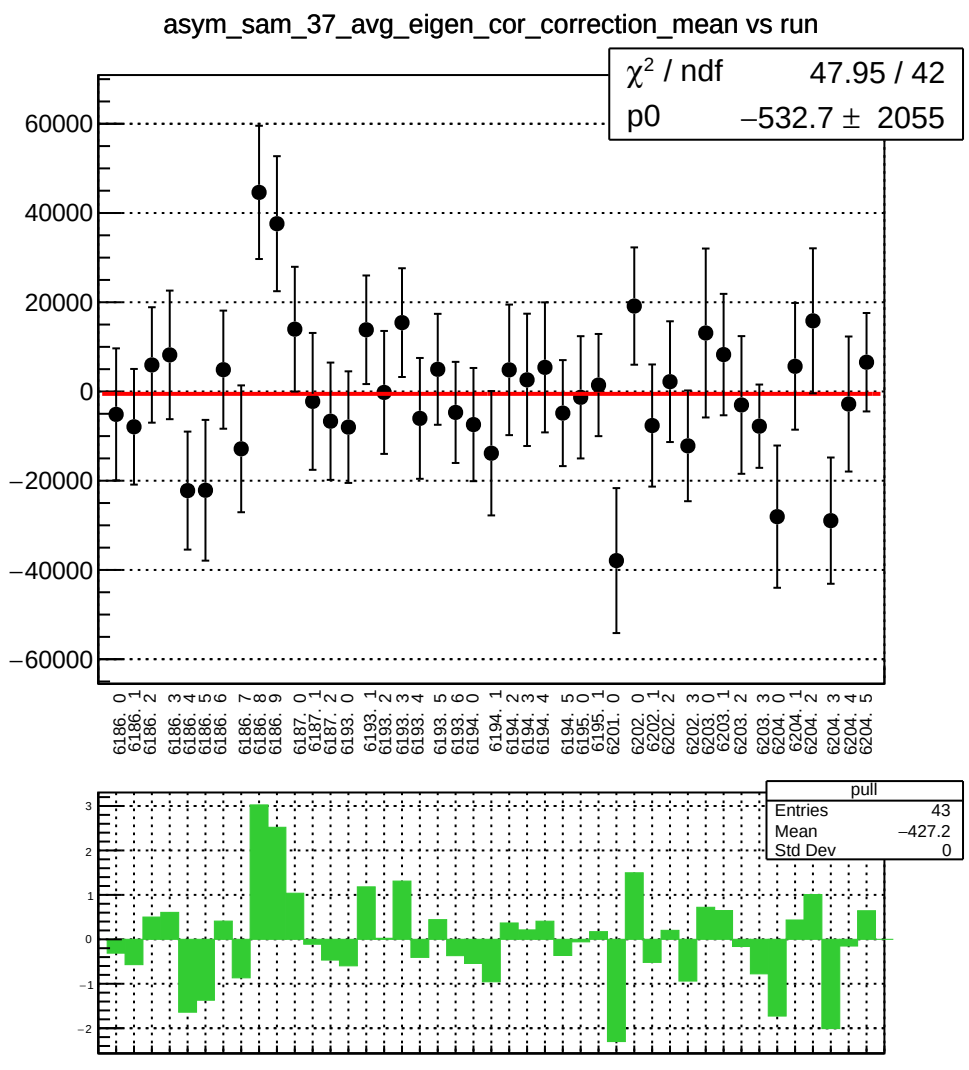

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.974e+04 / 42
p0 78.72 ± 0.08717
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

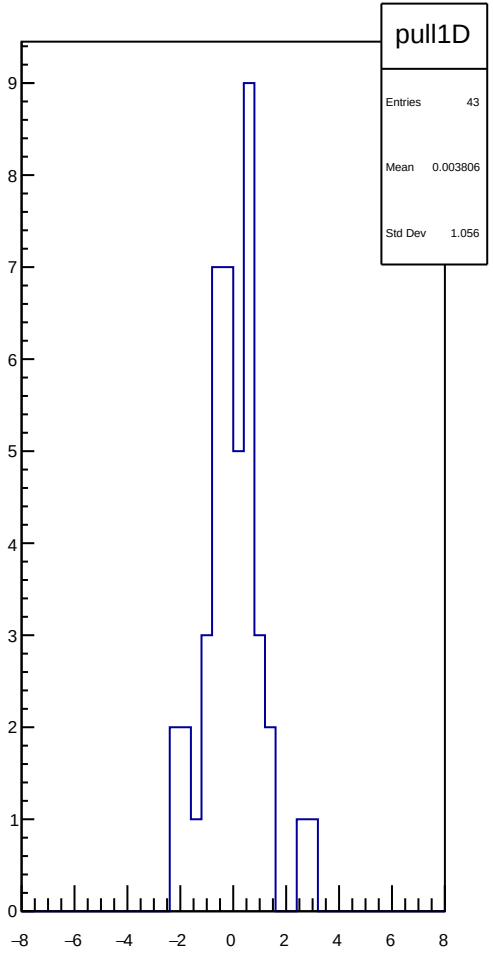

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 47.95 / 42
p0 −532.7 ± 2055
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −427.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.003806
Std Dev 1.056
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

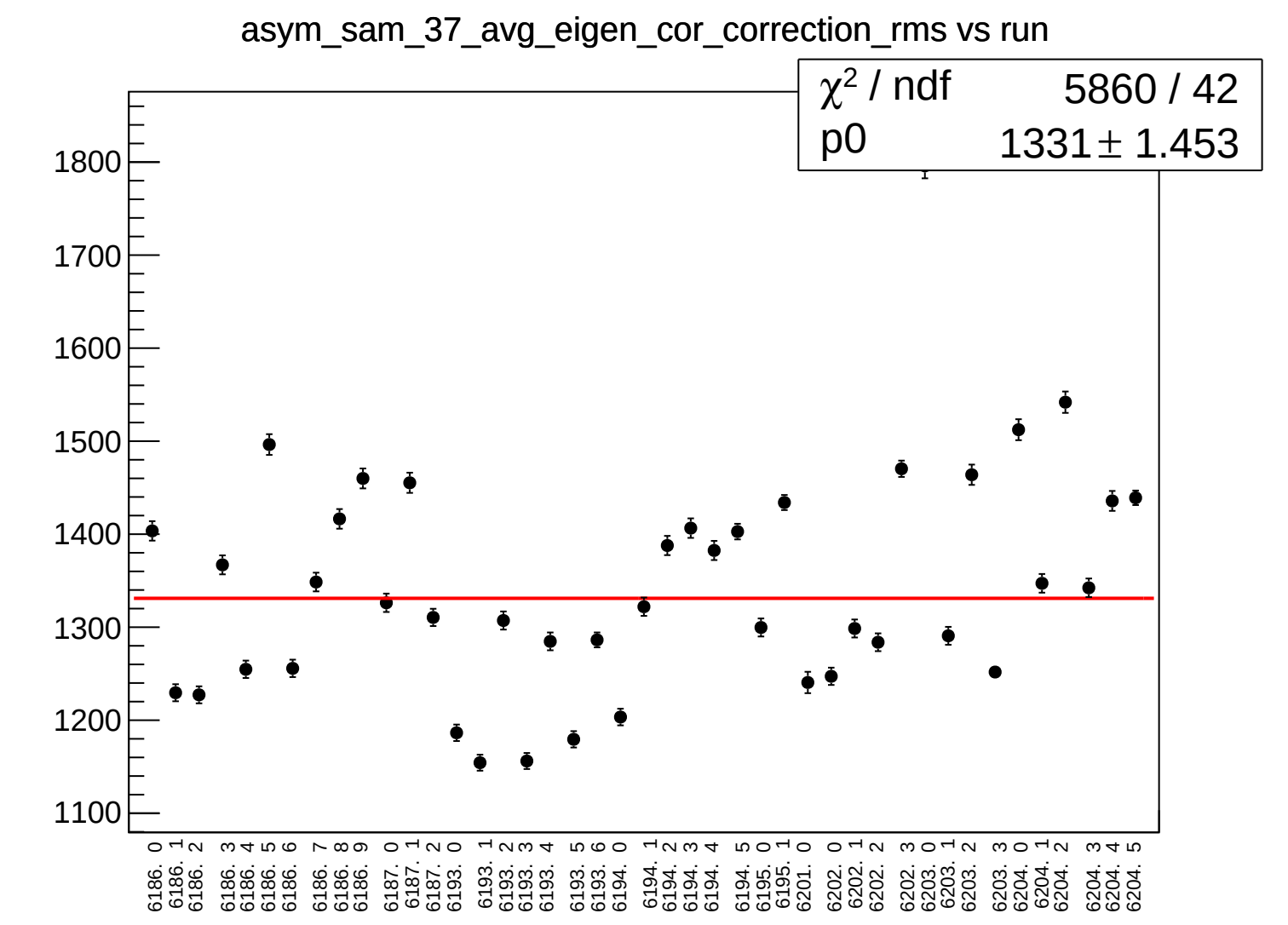

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 5860 / 42
p0 1331 ± 1.453
1800
1700
1600
1500
1400
1300
1200
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

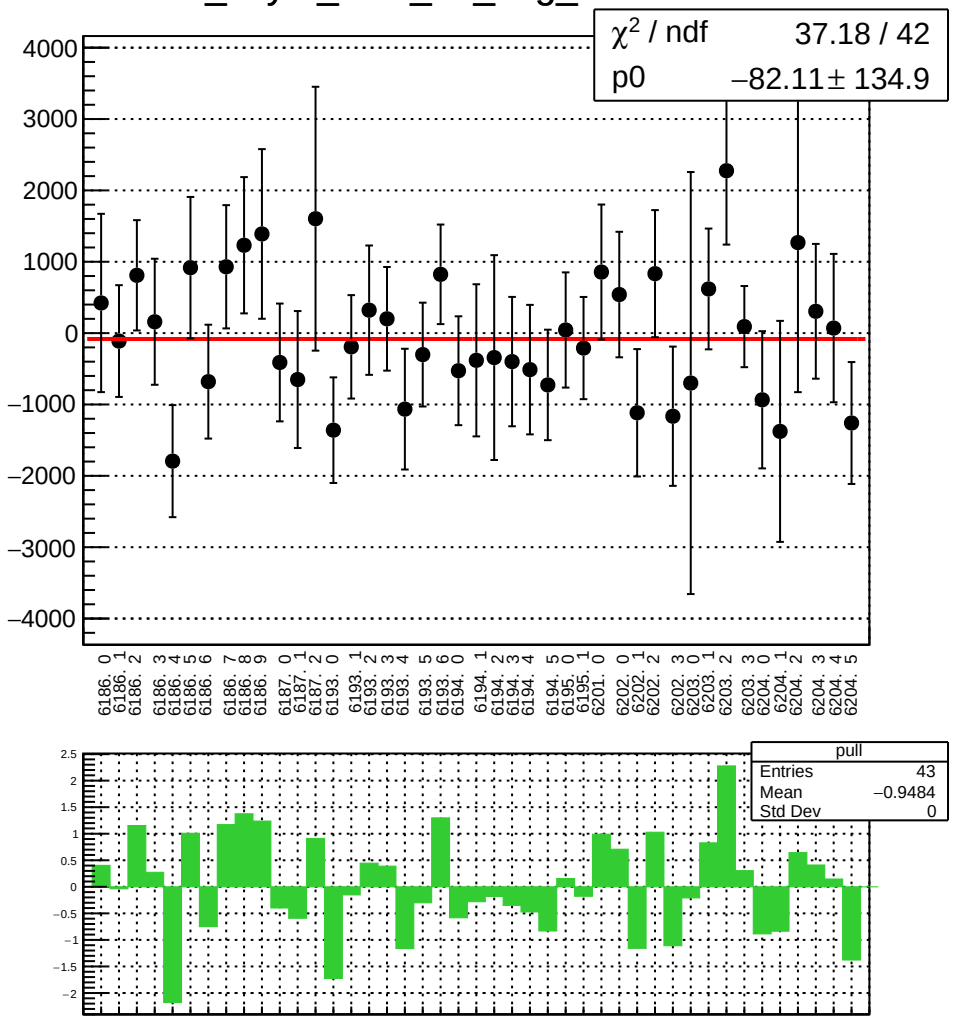

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 33.86 / 42
p0 −168.2 ± 123.3
4000
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 5.876
Std Dev 10.36
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.06011
Std Dev 0.8854
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

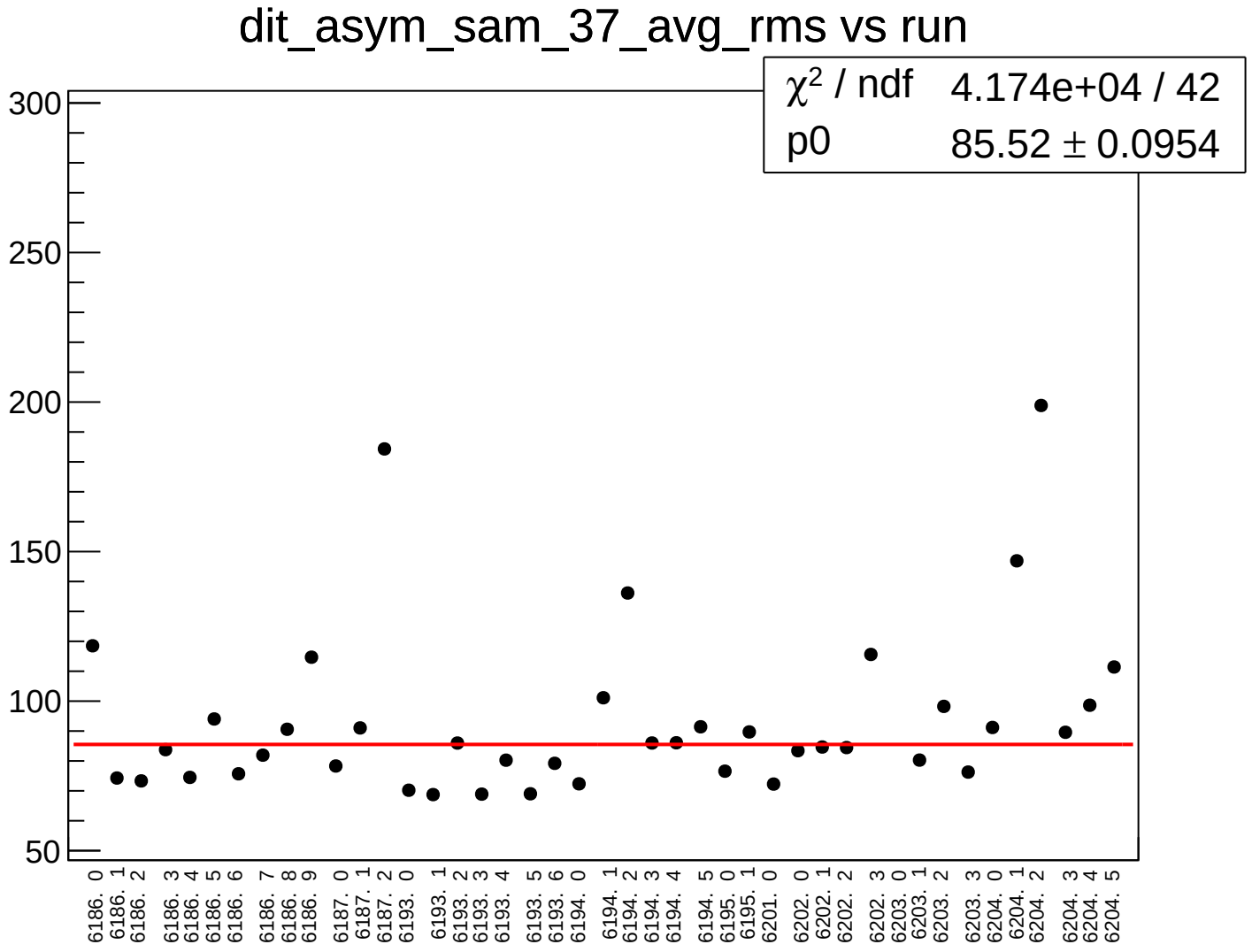

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.974e+04 / 42
p0 78.72 ± 0.08717
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

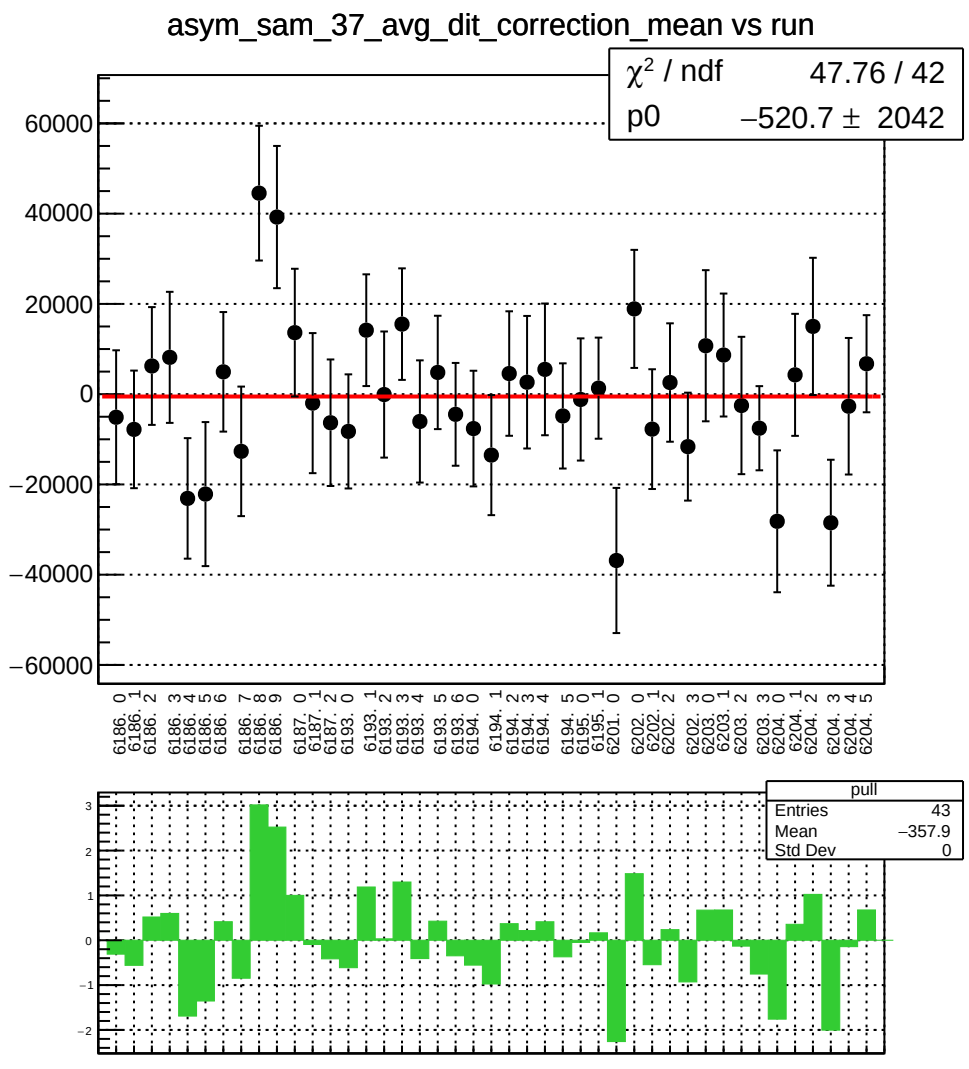

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 47.95 / 42
p0 −532.7 ± 2055
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −427.2
Std Dev 0
3
2
1
0
−1
−2

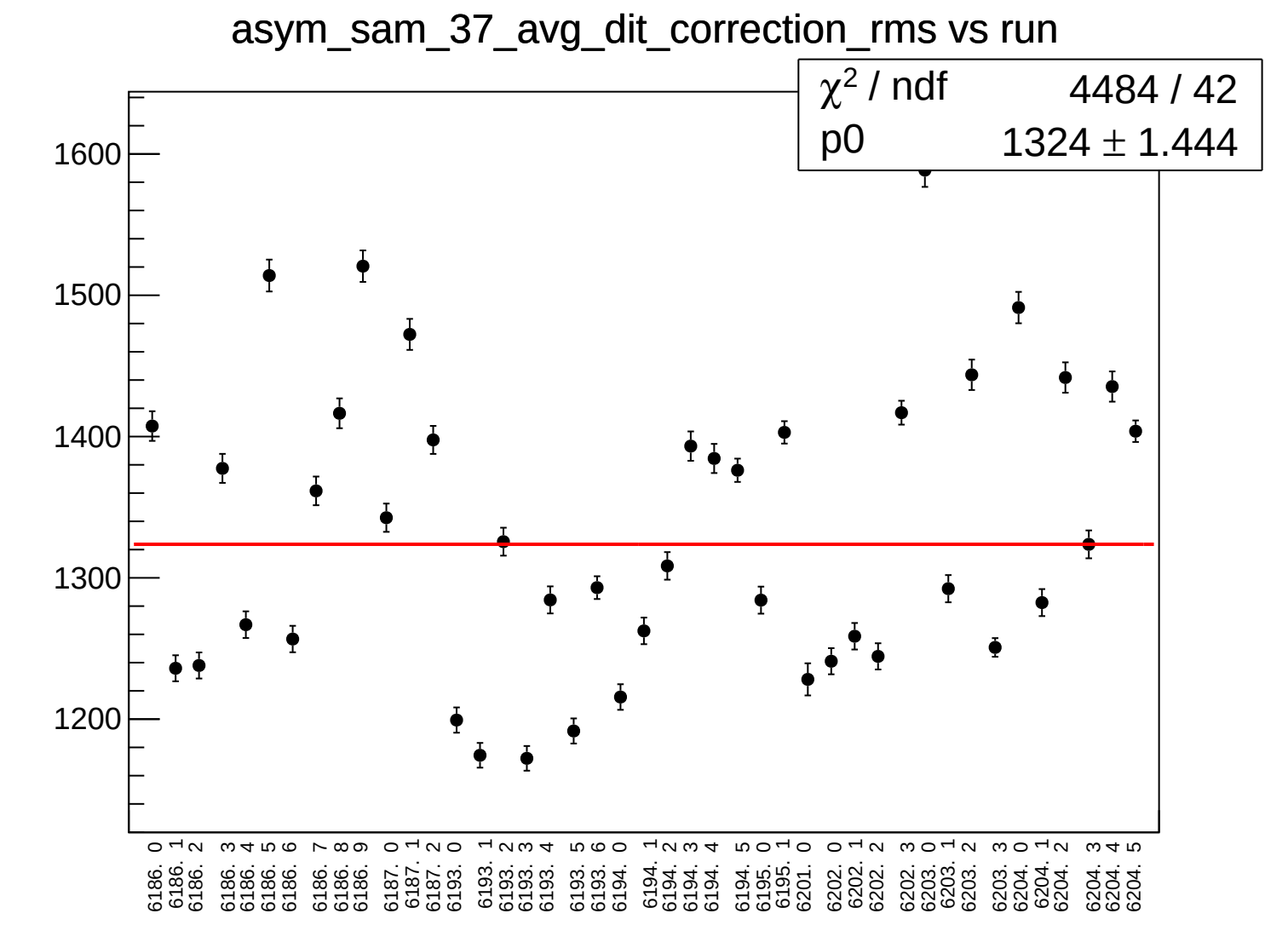

pull1D
Entries 43
Mean 0.003806
Std Dev 1.056
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

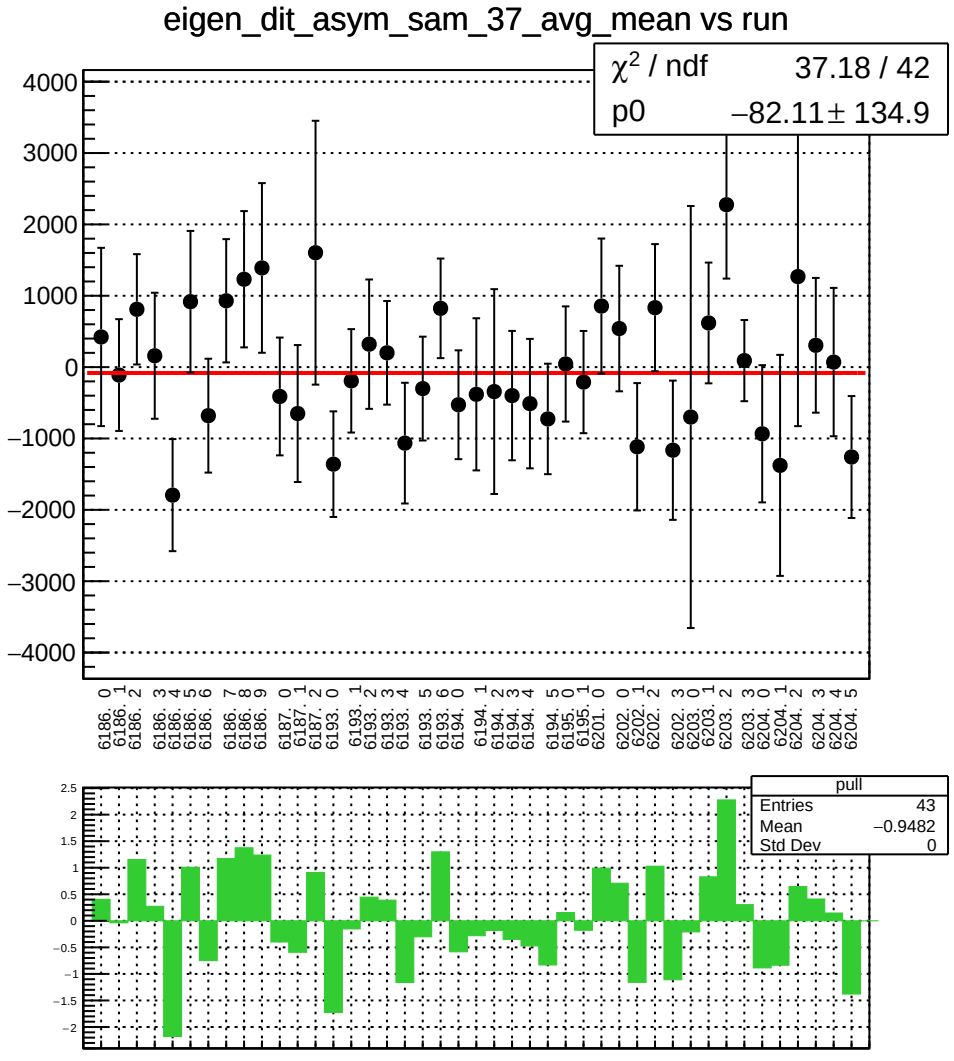

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 5860 / 42
p0 1331 ± 1.453
1800
1700
1600
1500
1400
1300
1200
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

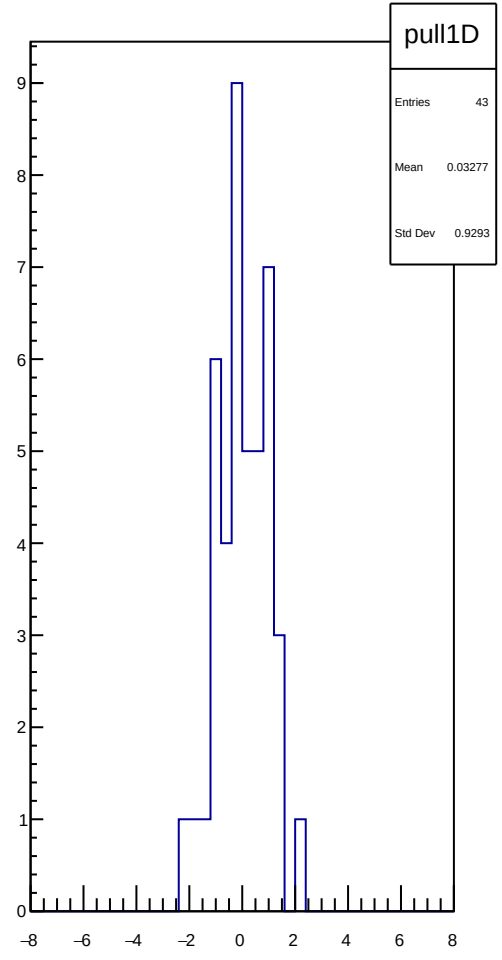

dit_asym_sam_37_avg_mean vs run
χ² / ndf 37.18 / 42
p0 −82.11 ± 134.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −0.9484
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.03277
Std Dev 0.9293
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

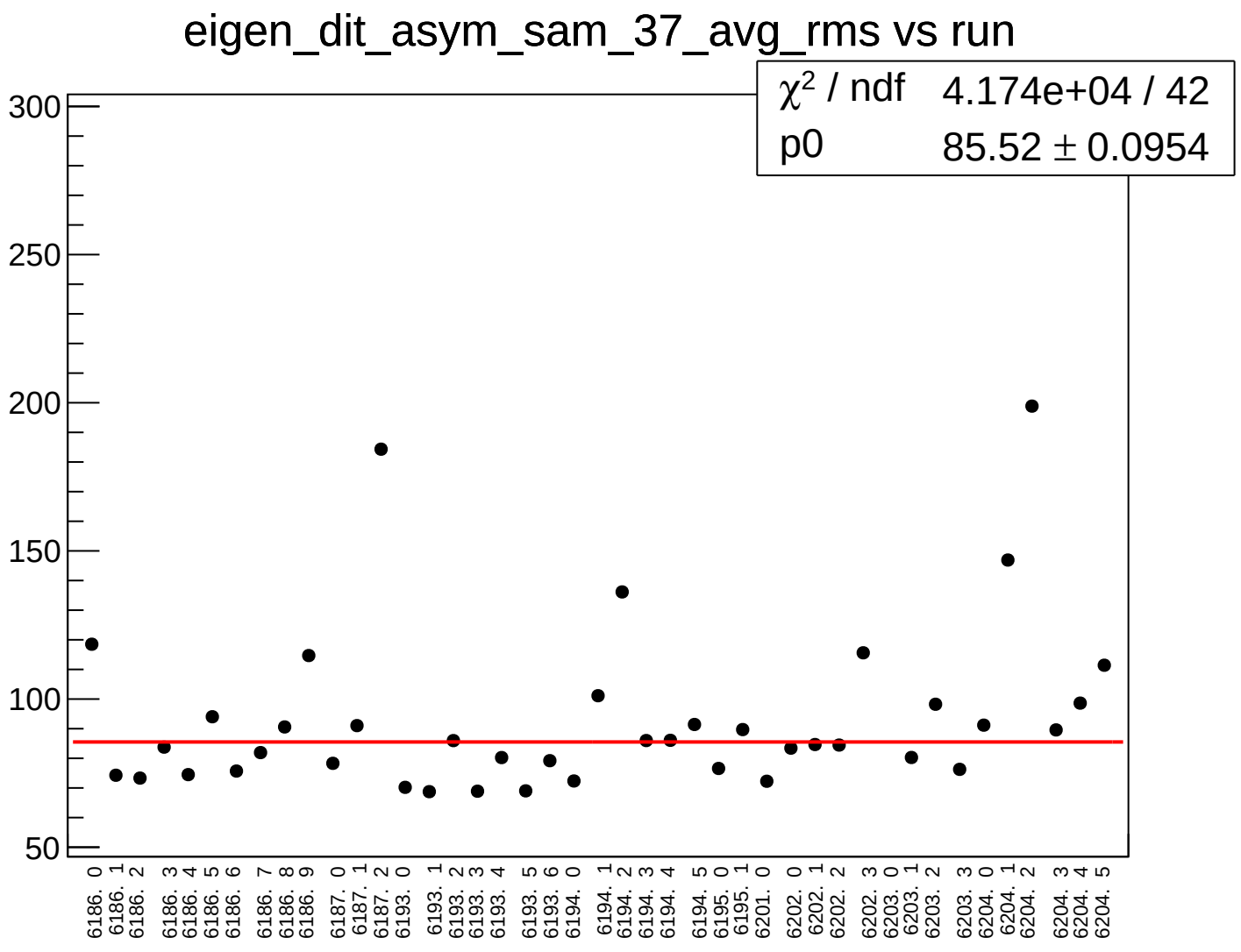

dit_asym_sam_37_avg_rms vs run
χ² / ndf 4.174e+04 / 42
p0 85.52 ± 0.0954
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

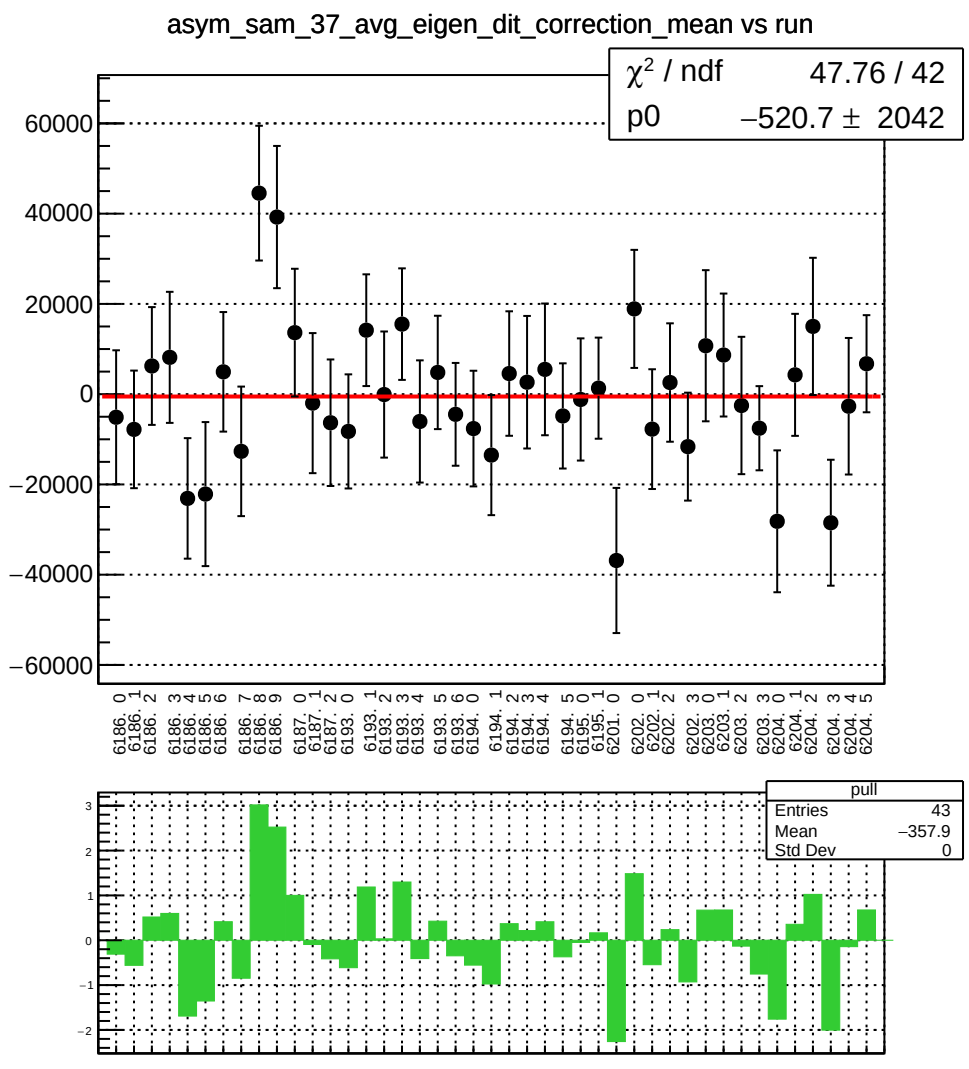

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 47.76 / 42
p0 −520.7 ± 2042
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −357.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.004493
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

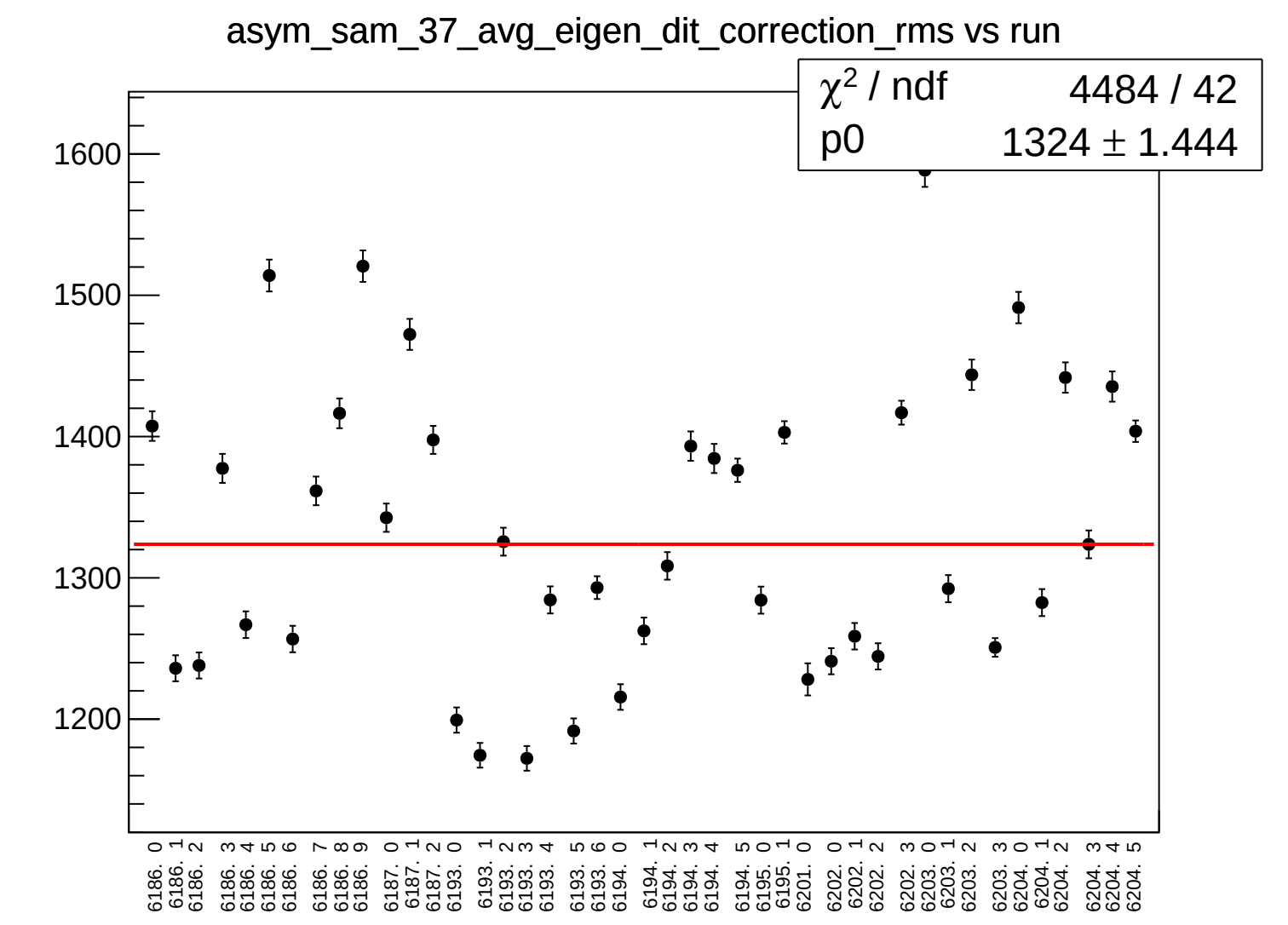

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 4484 / 42
p0 1324 ± 1.444
1600
1500
1400
1300
1200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

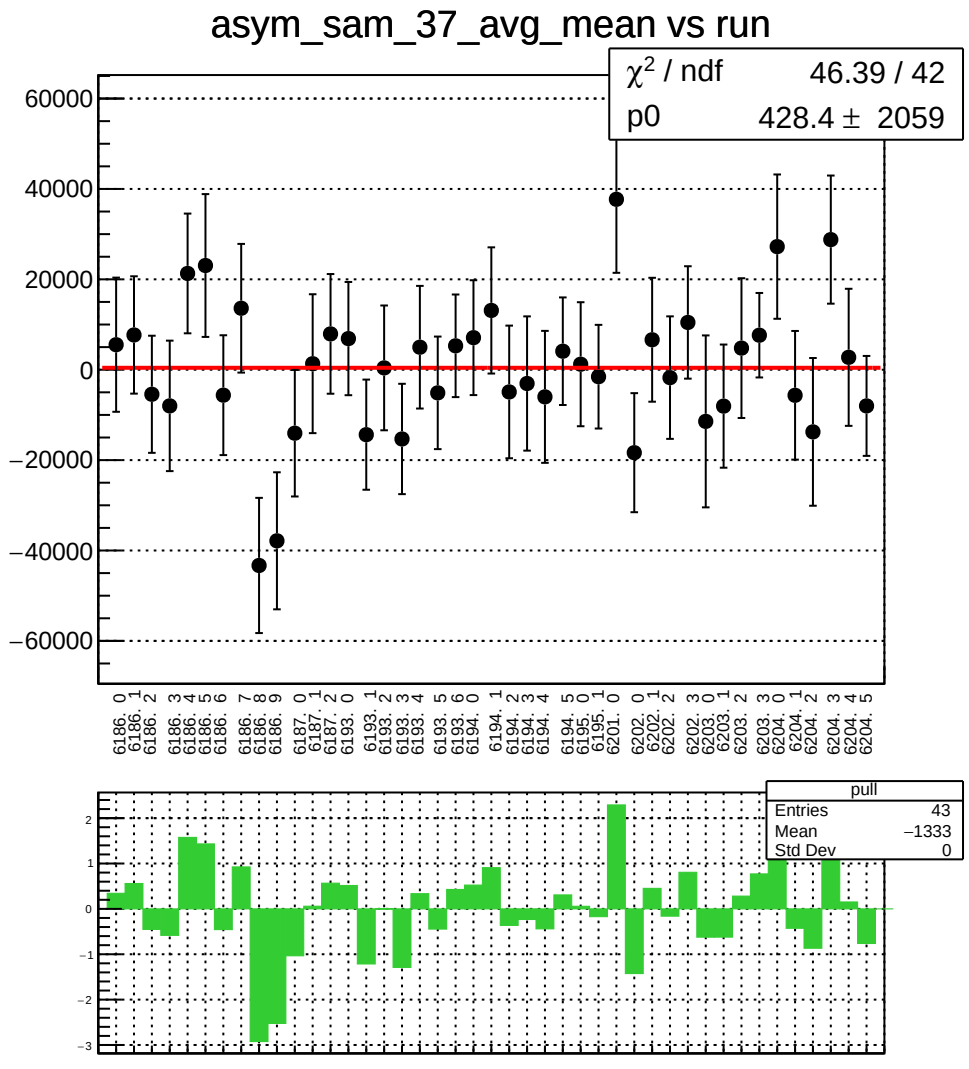

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 37.18 / 42
p0 −82.11 ± 134.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −0.9482
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

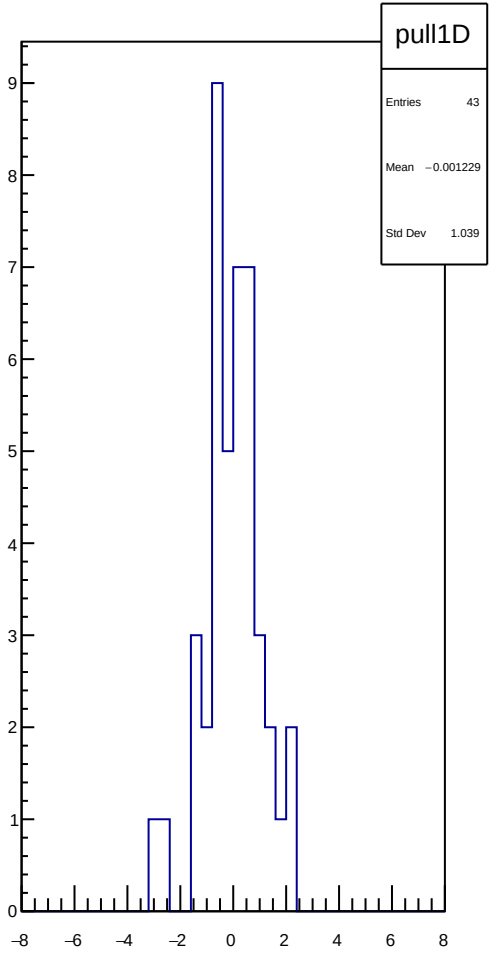

pull1D
Entries 43
Mean 0.03277
Std Dev 0.9293
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

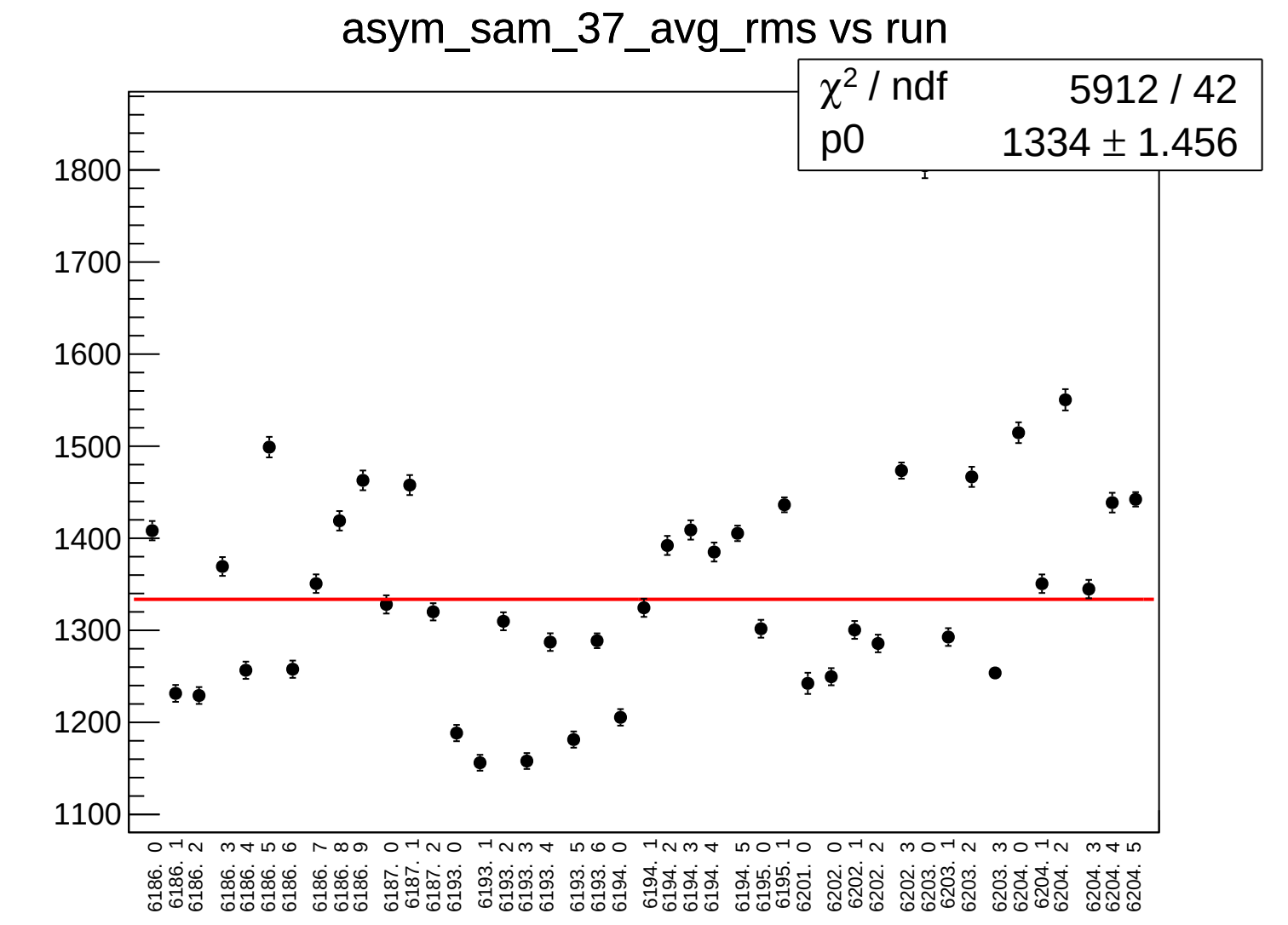

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 4.174e+04 / 42
p0 85.52 ± 0.0954
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 47.76 / 42
p0 −520.7 ± 2042
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −357.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.004493
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 4484 / 42
p0 1324 ± 1.444
1600
1500
1400
1300
1200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_37_avg_mean vs run
χ² / ndf 46.39 / 42
p0 428.4 ± 2059
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1333
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.001229
Std Dev 1.039
9
8
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 5912 / 42
p0 1334 ± 1.456
1800
1700
1600
1500
1400
1300
1200
1100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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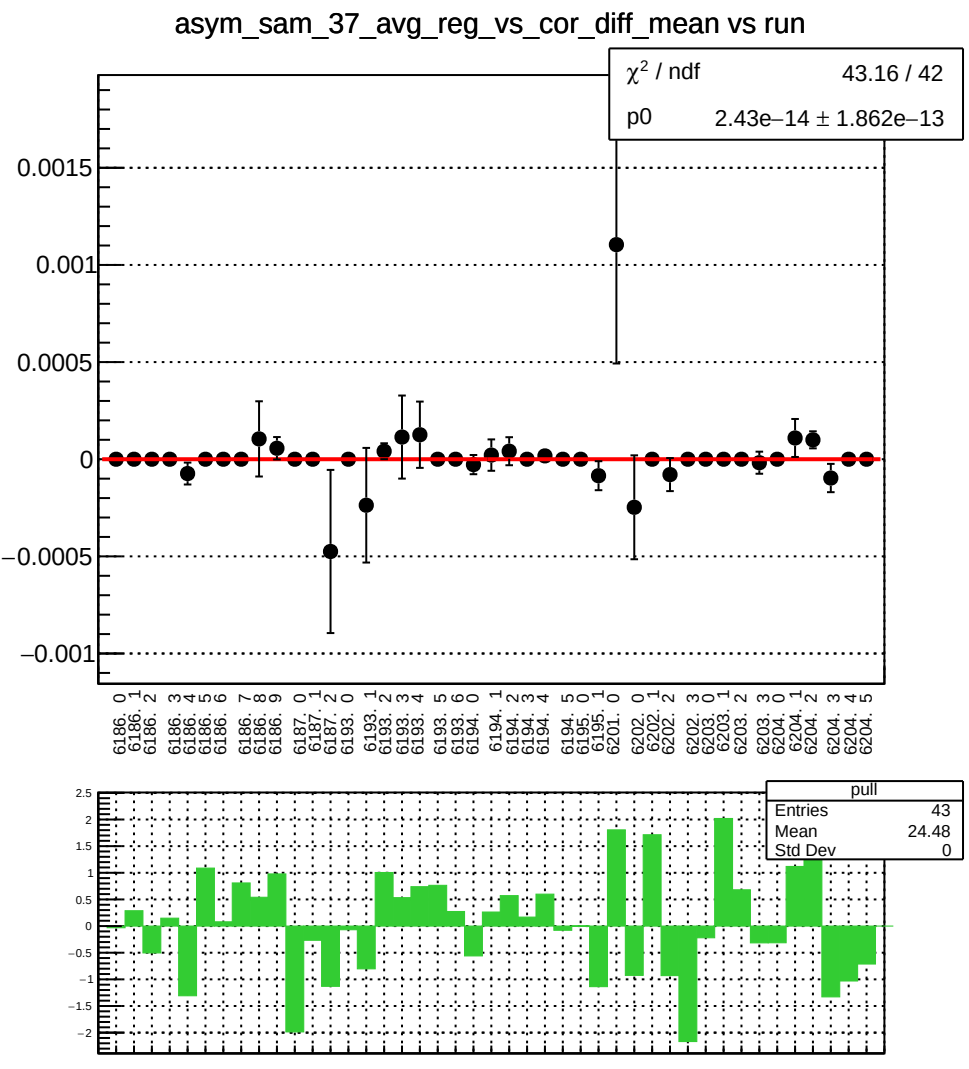
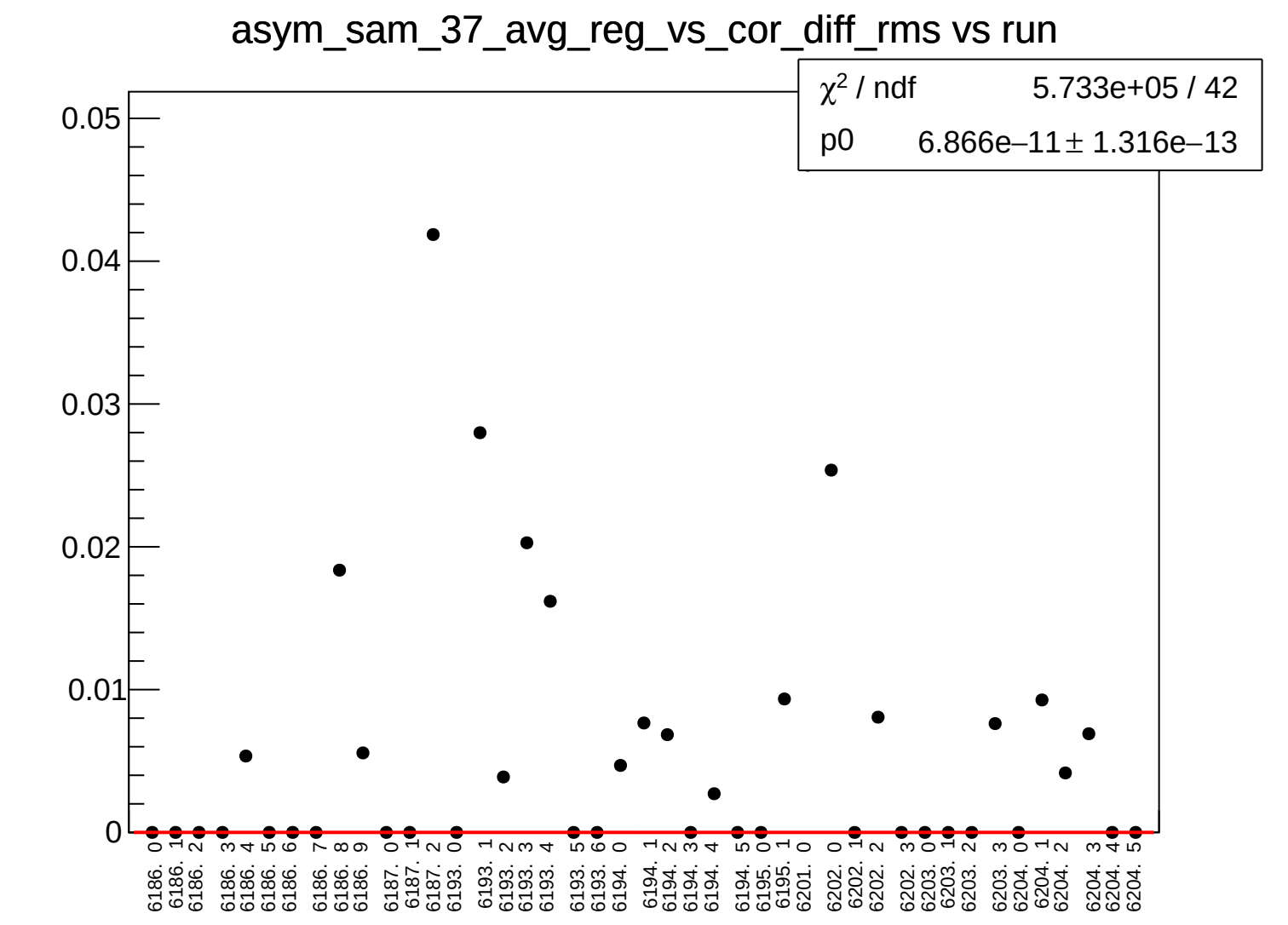
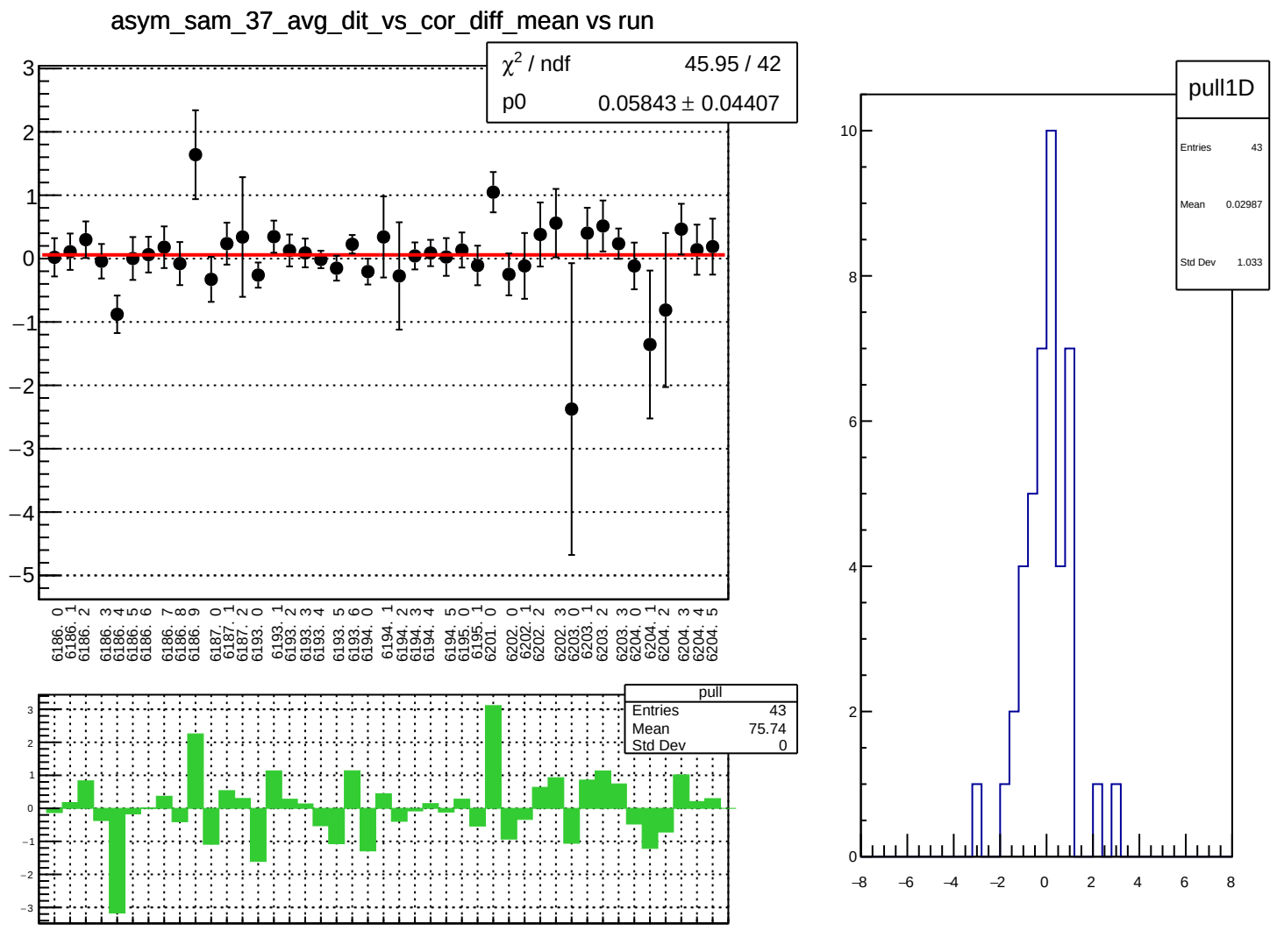
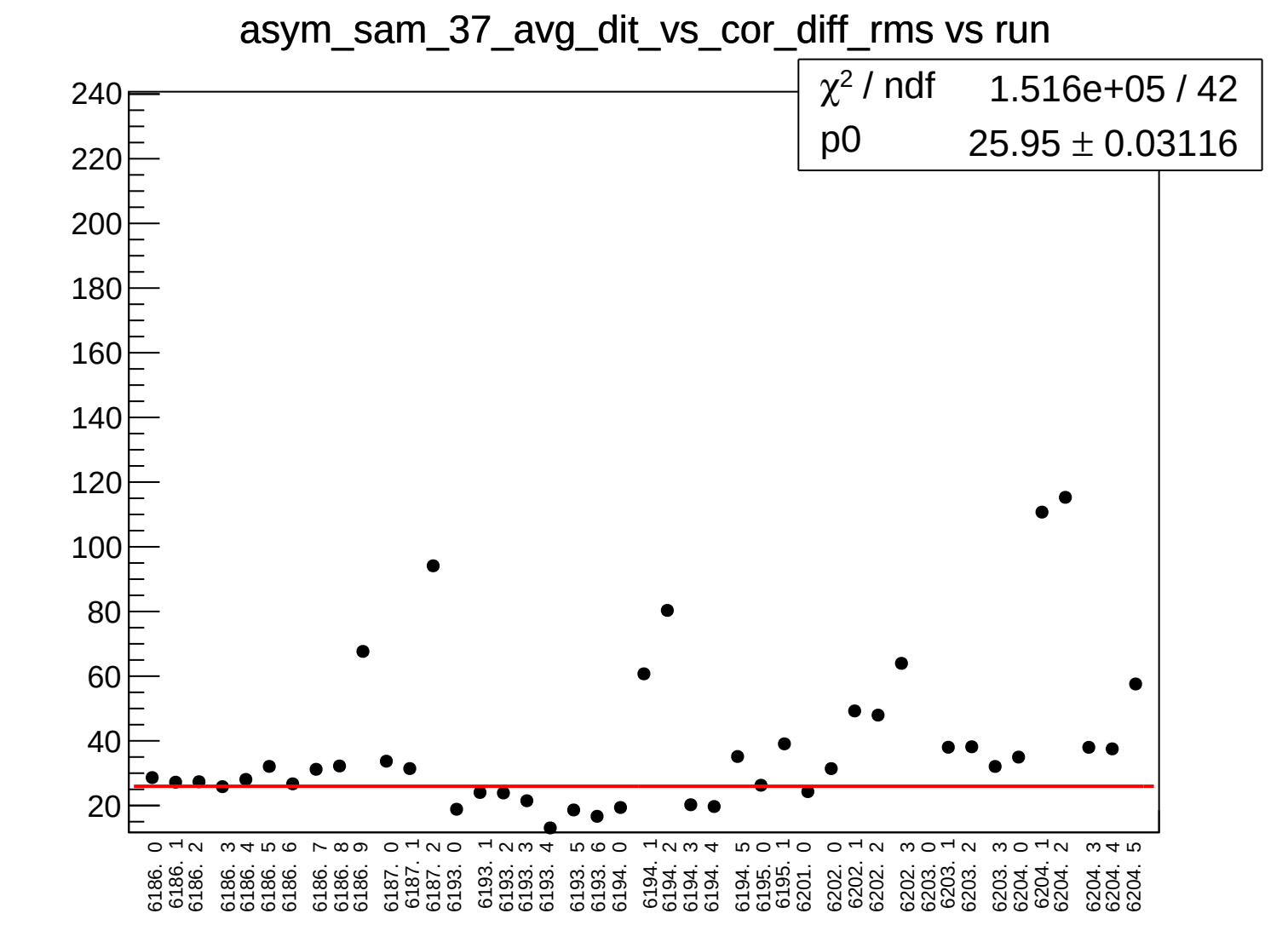
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 43.16 / 42
p0 2.43e−14 ± 1.862e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 24.48
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.06157
Std Dev 1
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.733e+05 / 42
p0 6.866e−11 ± 1.316e−13
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 45.95 / 42
p0 0.05843 ± 0.04407
pull
Entries 43
Mean 75.74
Std Dev 0
pull1D
Entries 43
Mean 0.02987
Std Dev 1.033


asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.516e+05 / 42
p0 25.95 ± 0.03116
240
220
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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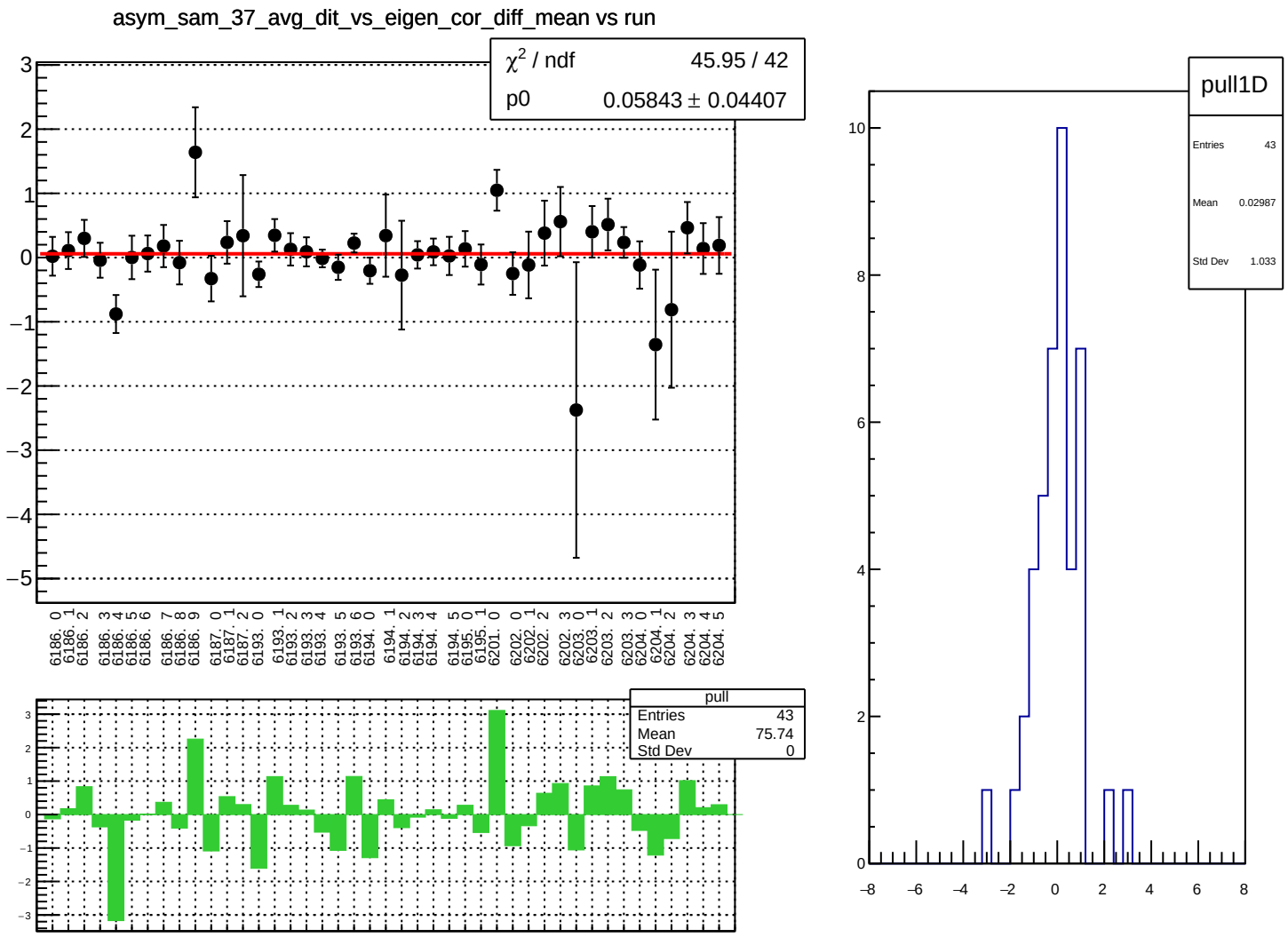
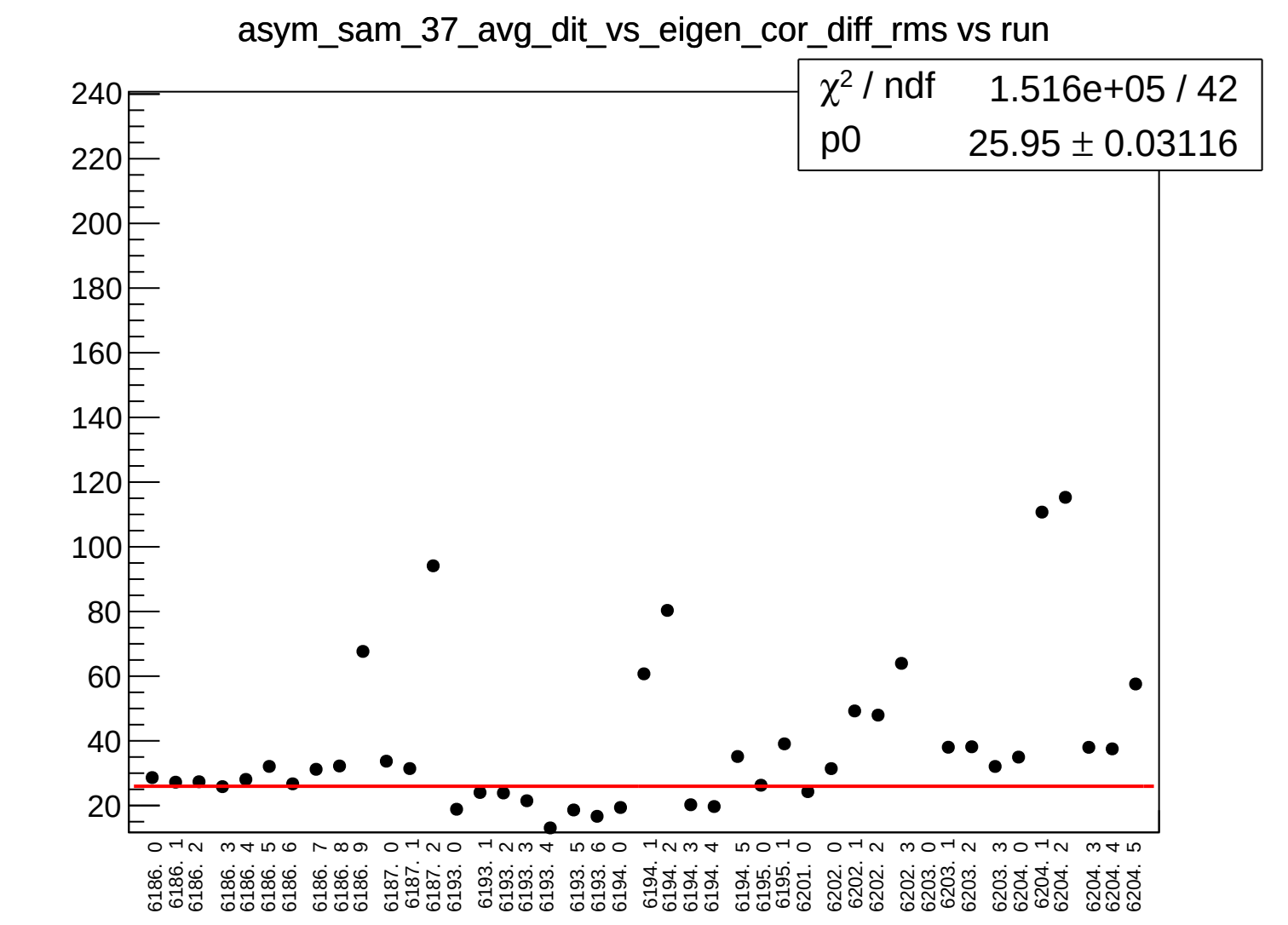
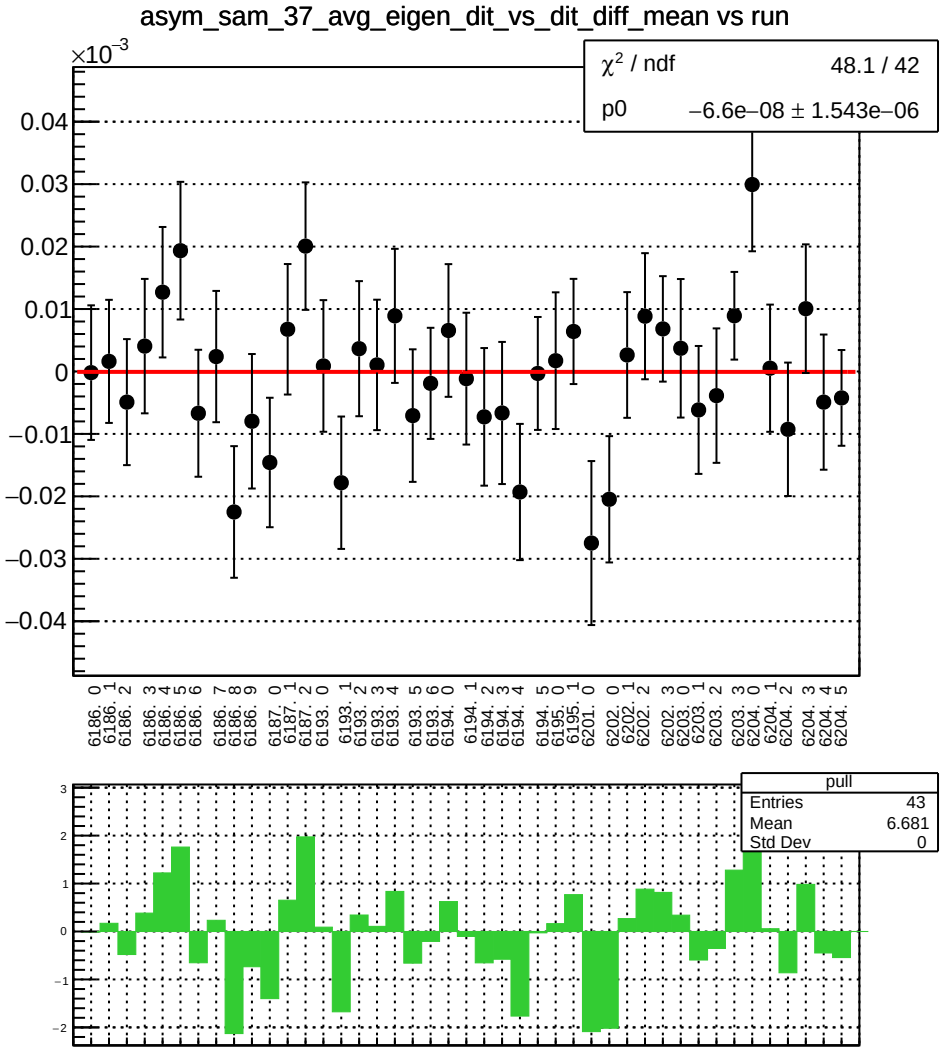
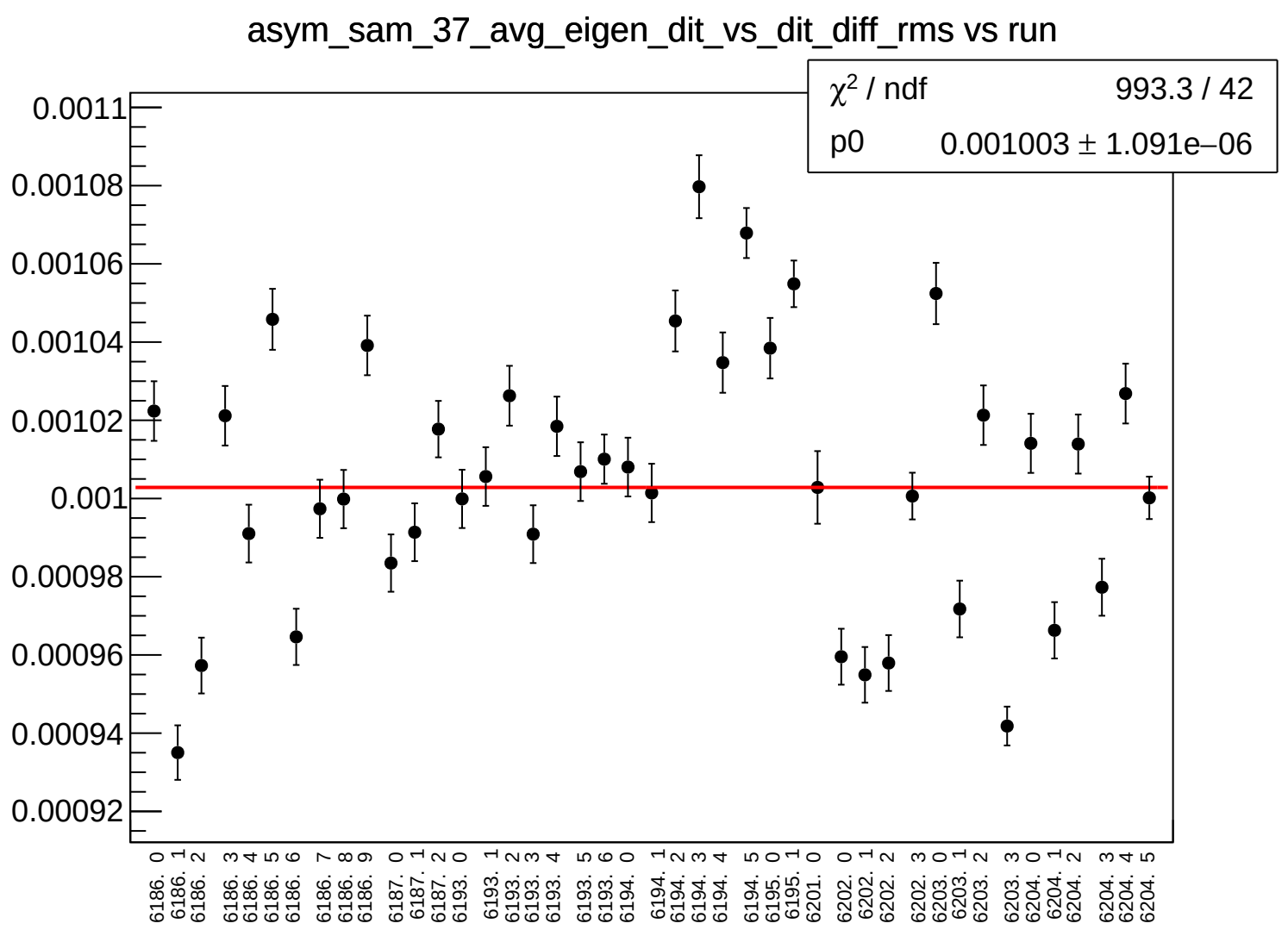
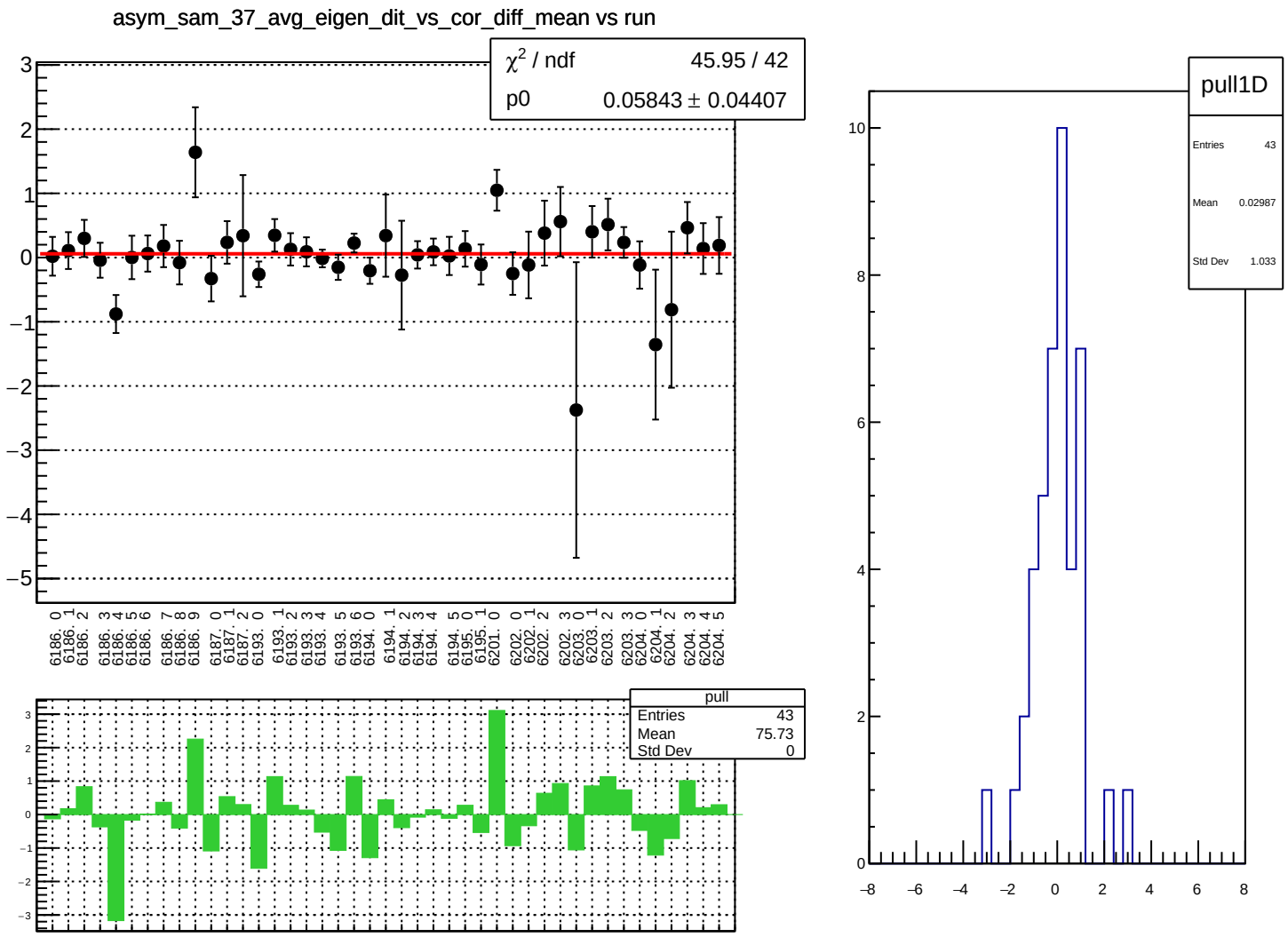
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

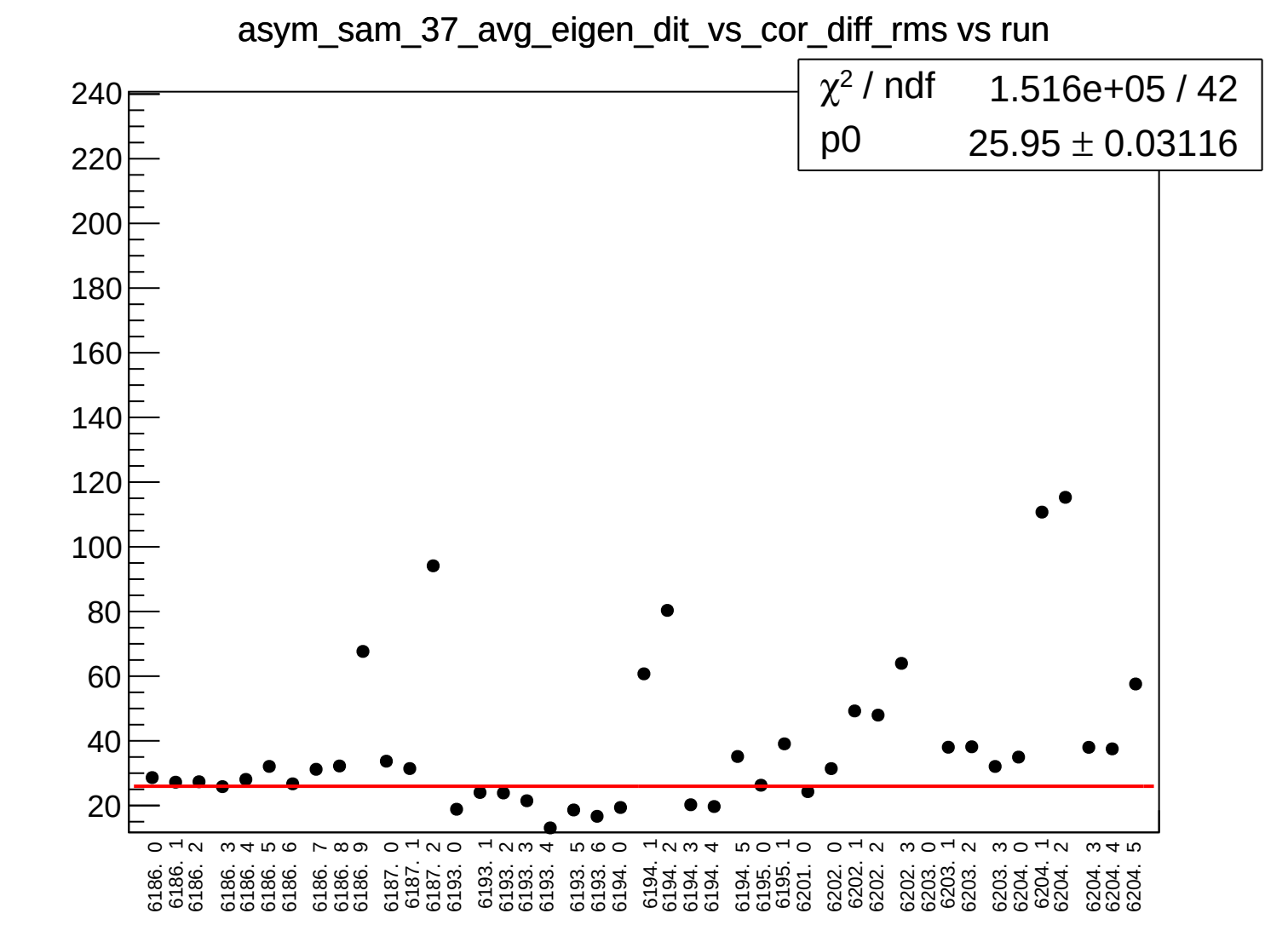

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.95 / 42
p0 0.05843 ± 0.04407
pull
Entries 43
Mean 75.74
Std Dev 0
pull1D
Entries 43
Mean 0.02987
Std Dev 1.033

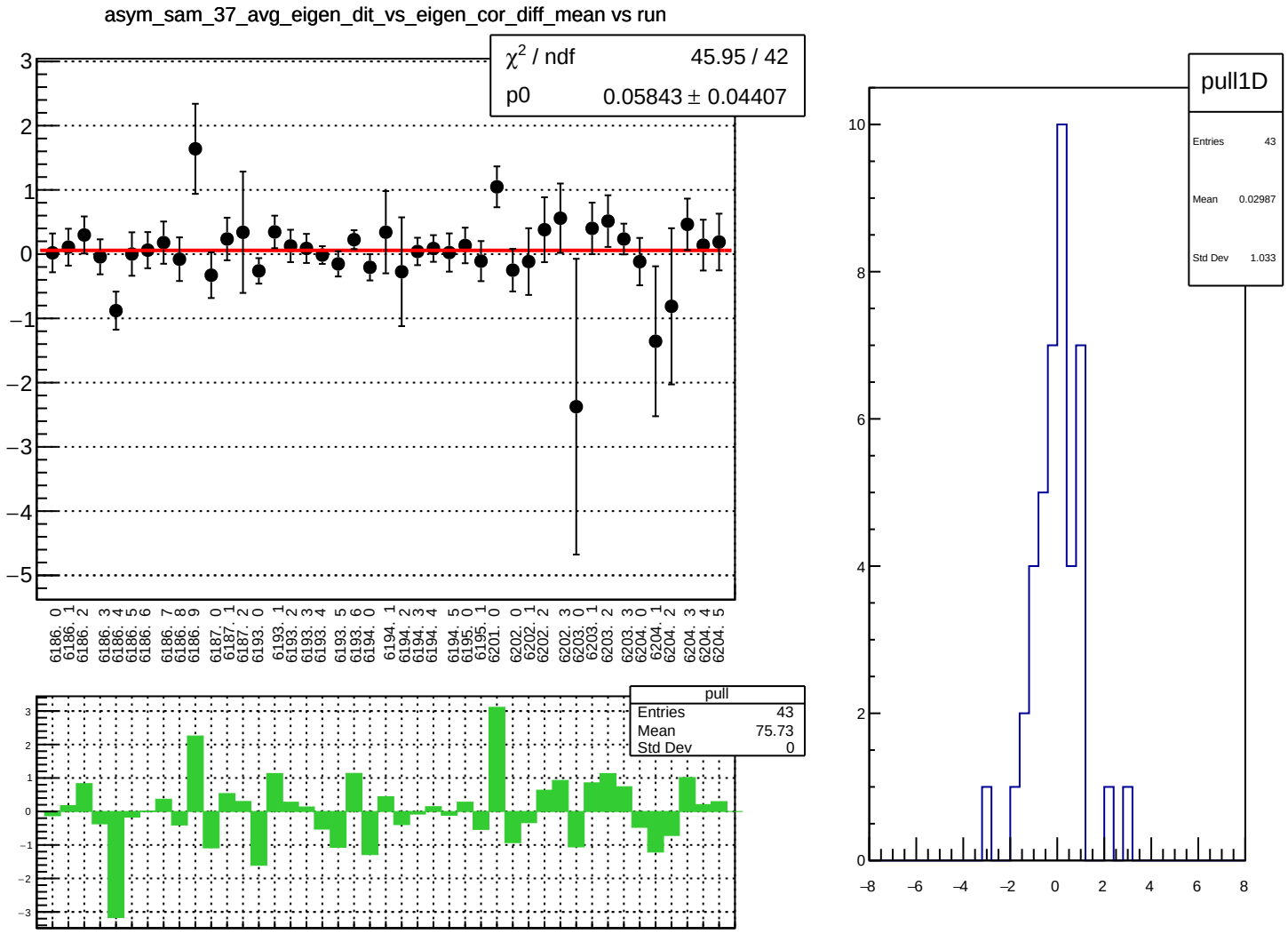

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.516e+05 / 42
p0 25.95 ± 0.03116
240
220
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

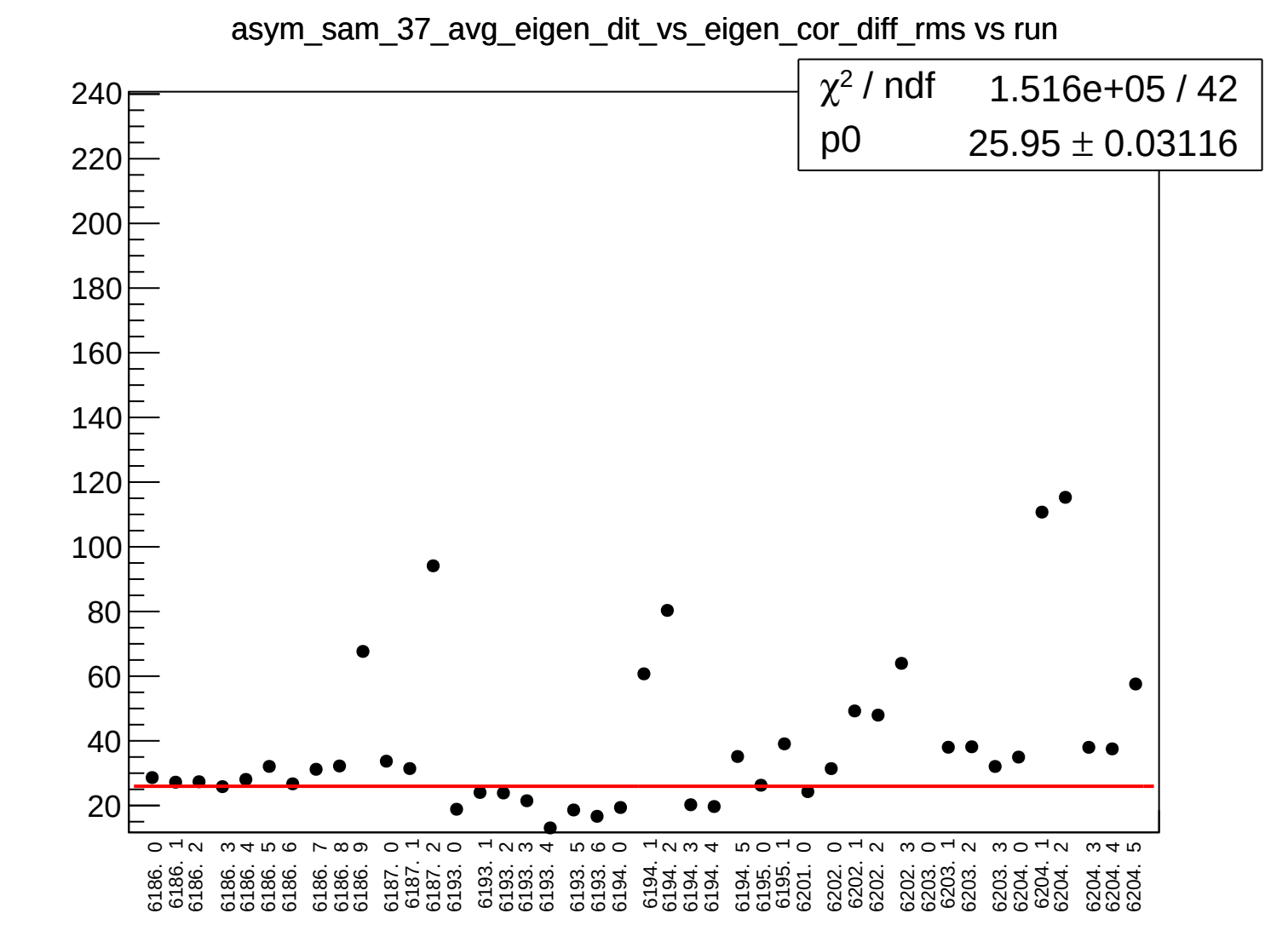

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 48.1 / 42
p0 −6.6e−08 ± 1.543e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 6.681
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02829
Std Dev 1.057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

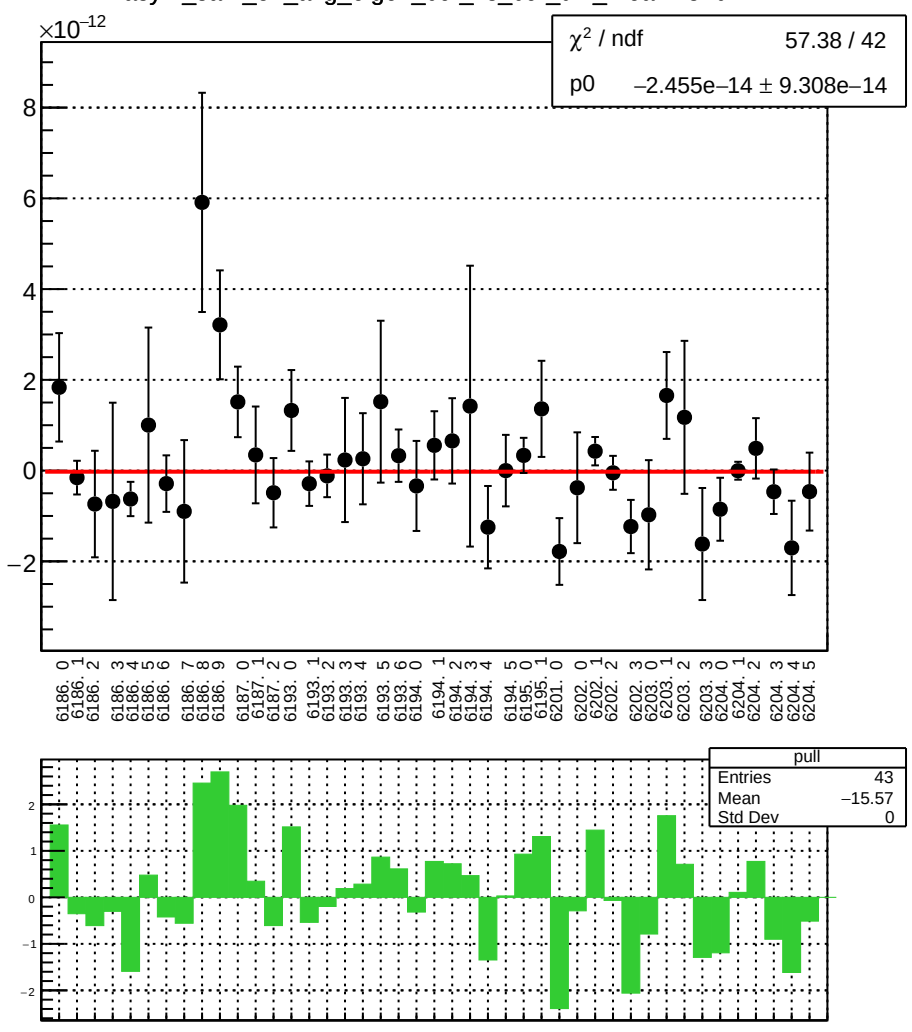

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 993.3 / 42
p0 0.001003 ± 1.091e−06
0.0011
0.00108
0.00106
0.00104
0.00102
0.001
0.00098
0.00096
0.00094
0.00092
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

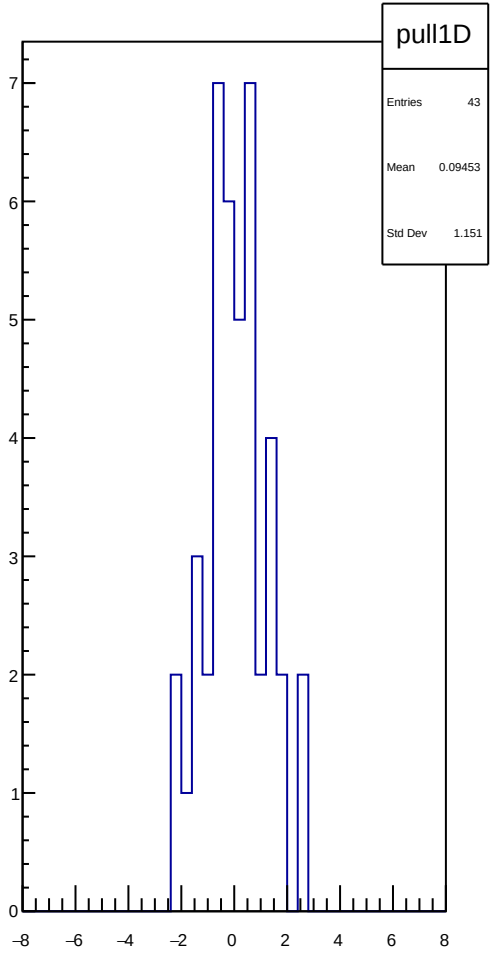

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45.95 / 42
p0 0.05843 ± 0.04407
pull
Entries 43
Mean 75.73
Std Dev 0
pull1D
Entries 43
Mean 0.02987
Std Dev 1.033

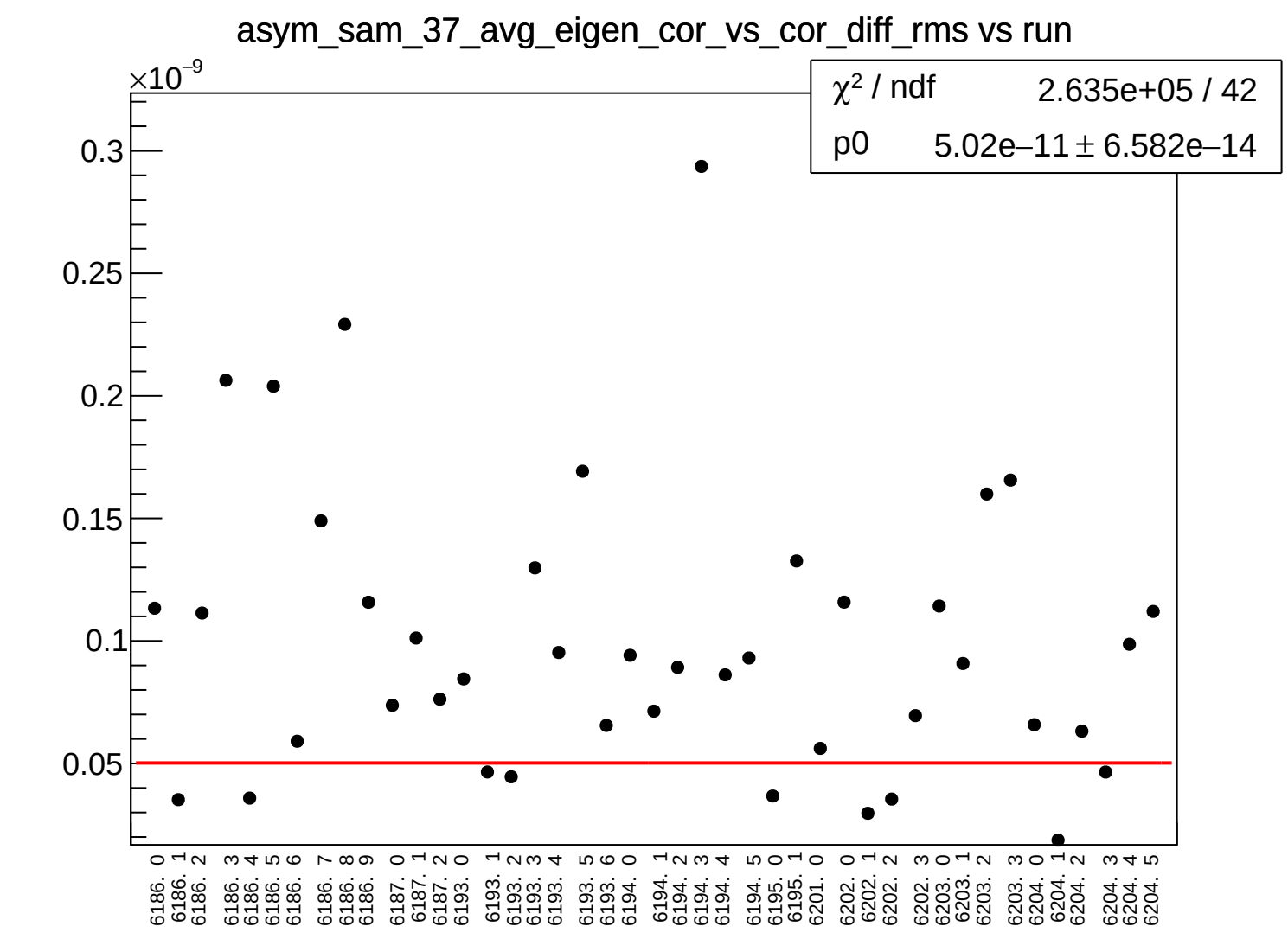

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.516e+05 / 42
p0 25.95 ± 0.03116
240
220
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

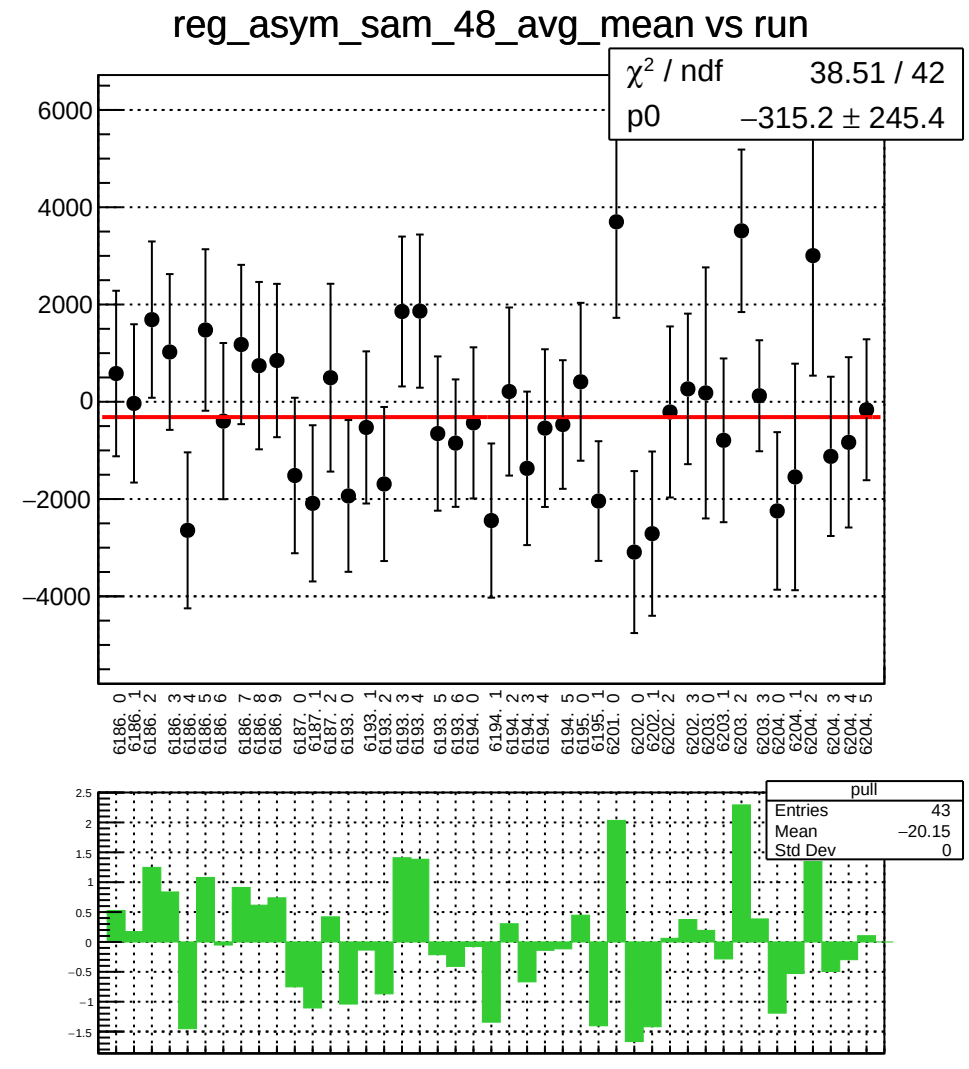

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.95 / 42
p0 0.05843 ± 0.04407
pull
Entries 43
Mean 75.73
Std Dev 0
pull1D
Entries 43
Mean 0.02987
Std Dev 1.033

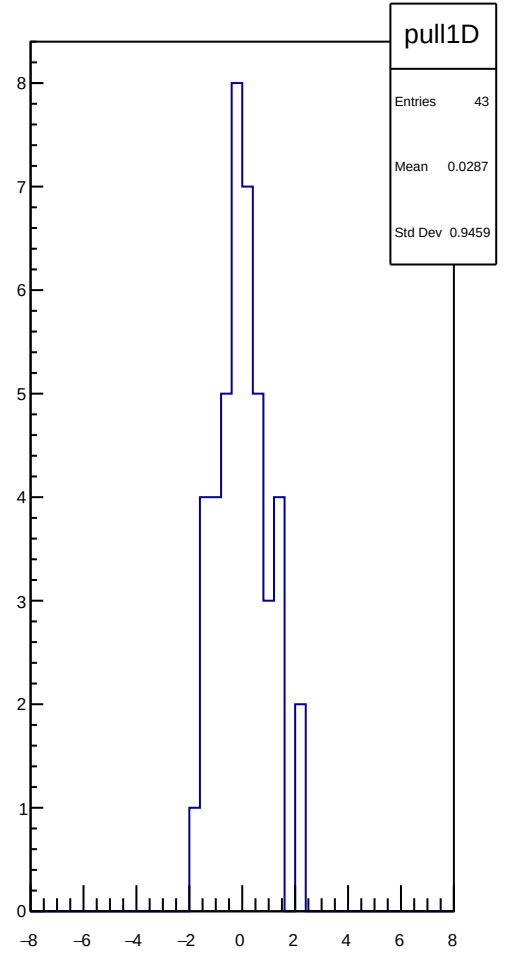

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.516e+05 / 42
p0 25.95 ± 0.03116
240
220
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

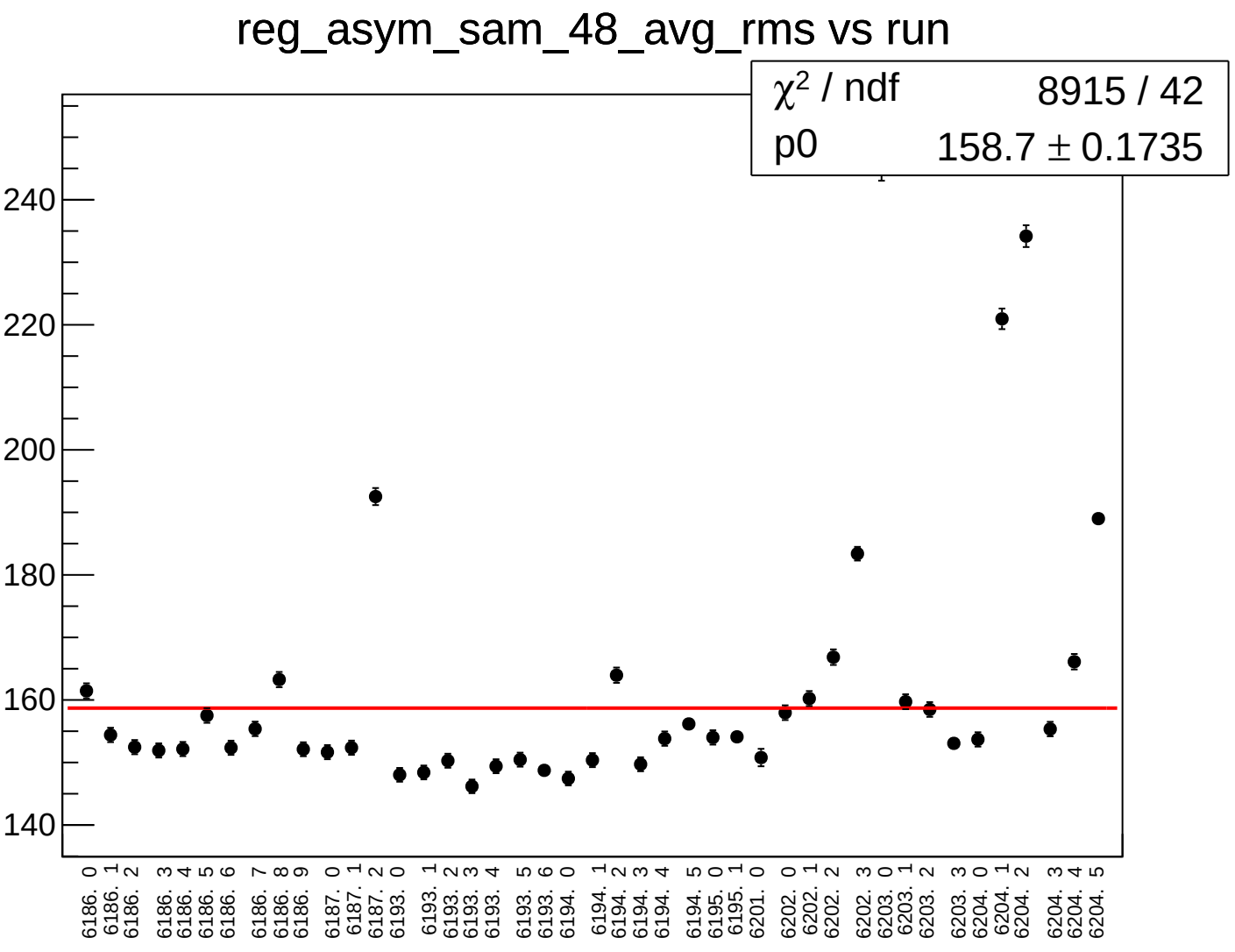

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 57.38 / 42
p0 −2.455e−14 ± 9.308e−14
8
6
4
2
0
−2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −15.57
Std Dev 0
2
1
0
−1
−2

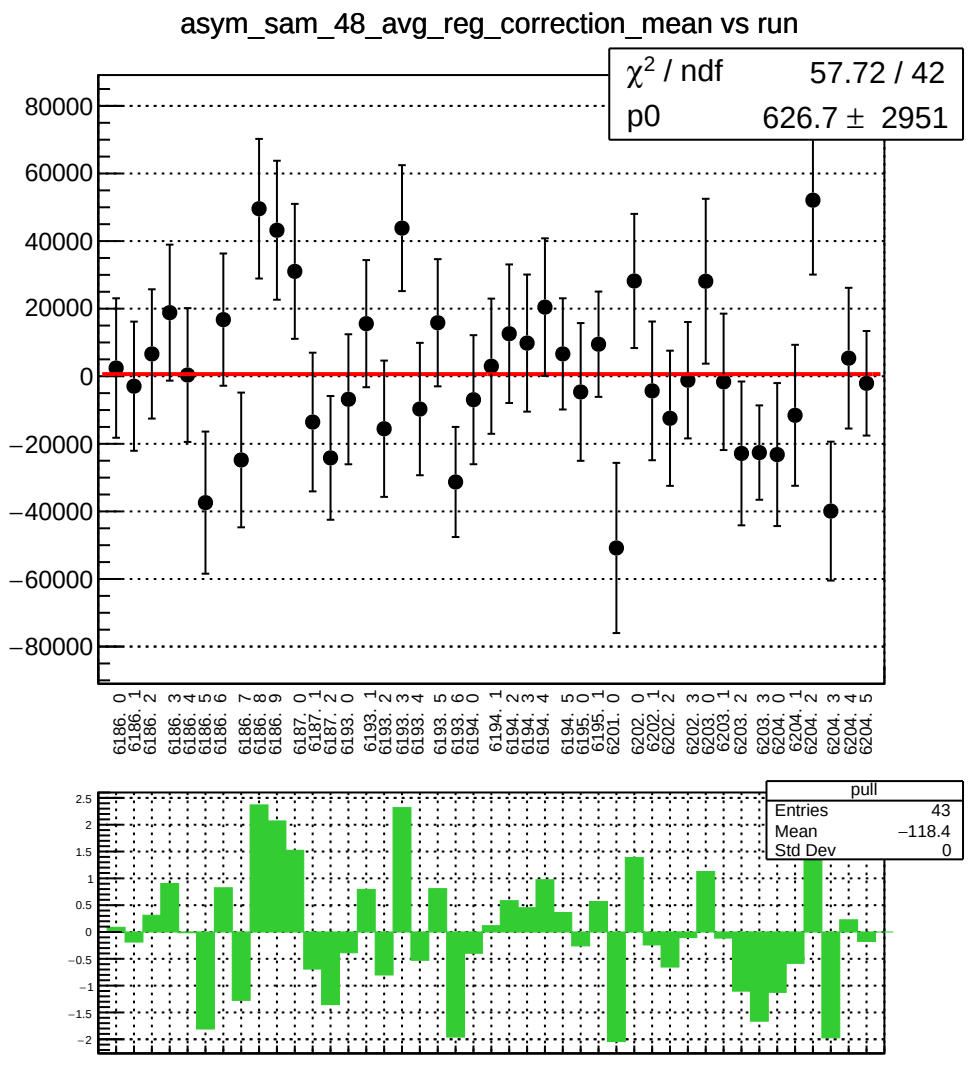

pull1D
Entries 43
Mean 0.09453
Std Dev 1.151
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

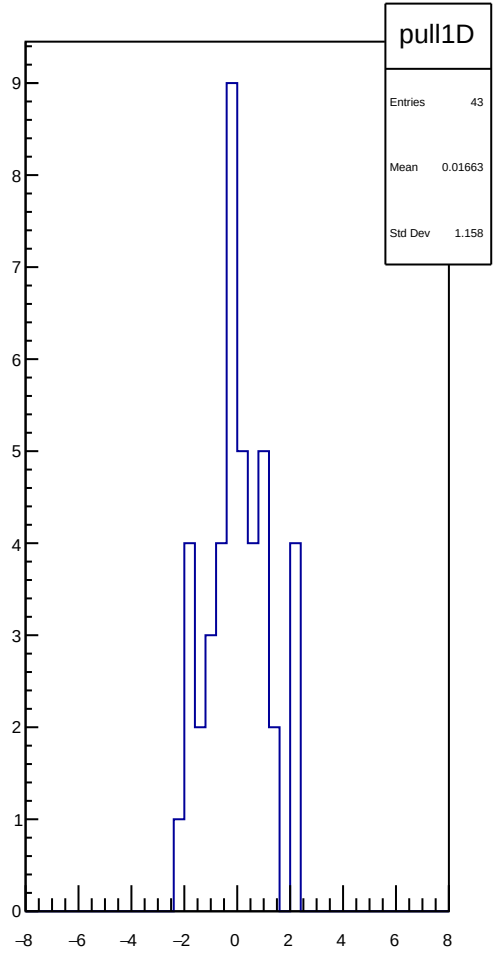

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.635e+05 / 42
p0 5.02e−11 ± 6.582e−14
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

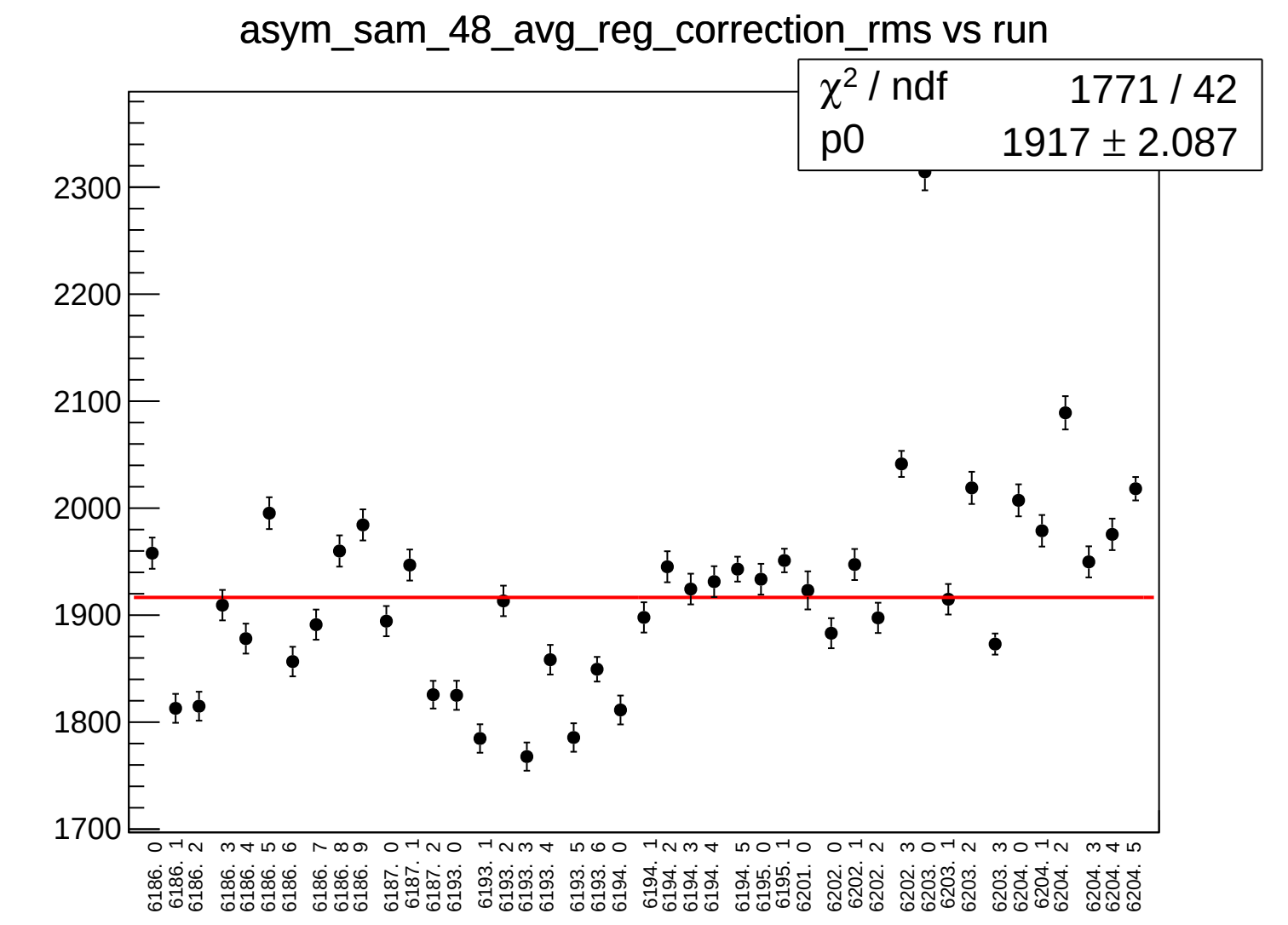

reg_asym_sam_48_avg_mean vs run
χ² / ndf 38.51 / 42
p0 −315.2 ± 245.4
6000
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −20.15
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

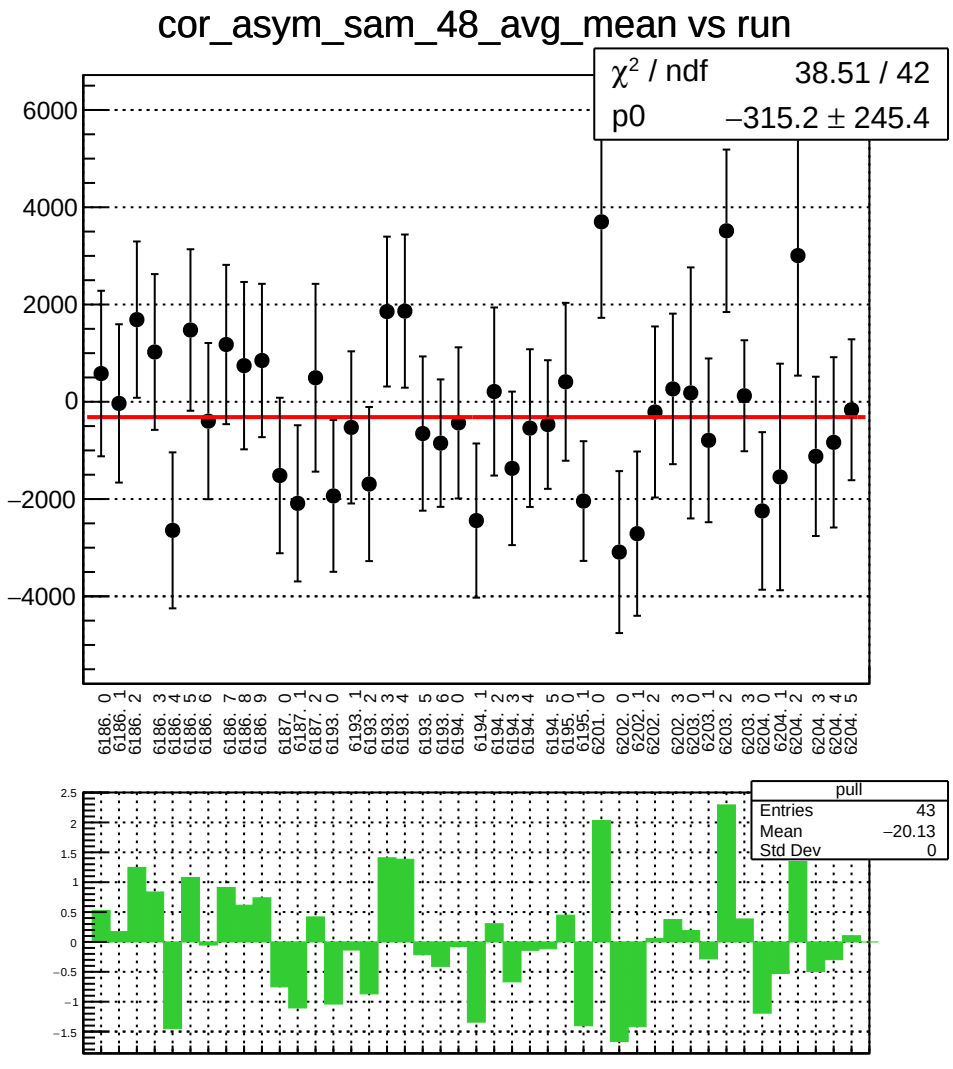

pull1D
Entries 43
Mean 0.0287
Std Dev 0.9459
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

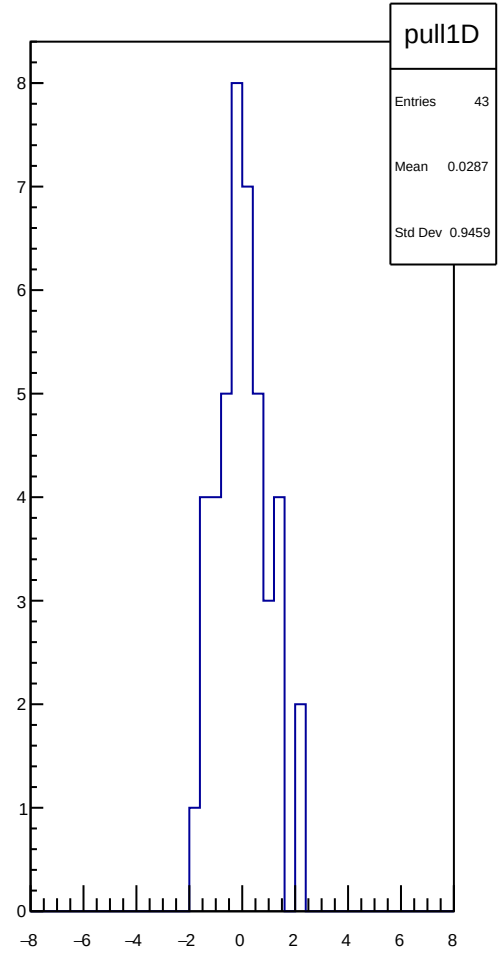

reg_asym_sam_48_avg_rms vs run
χ² / ndf 8915 / 42
p0 158.7 ± 0.1735
240
220
200
180
160
140
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

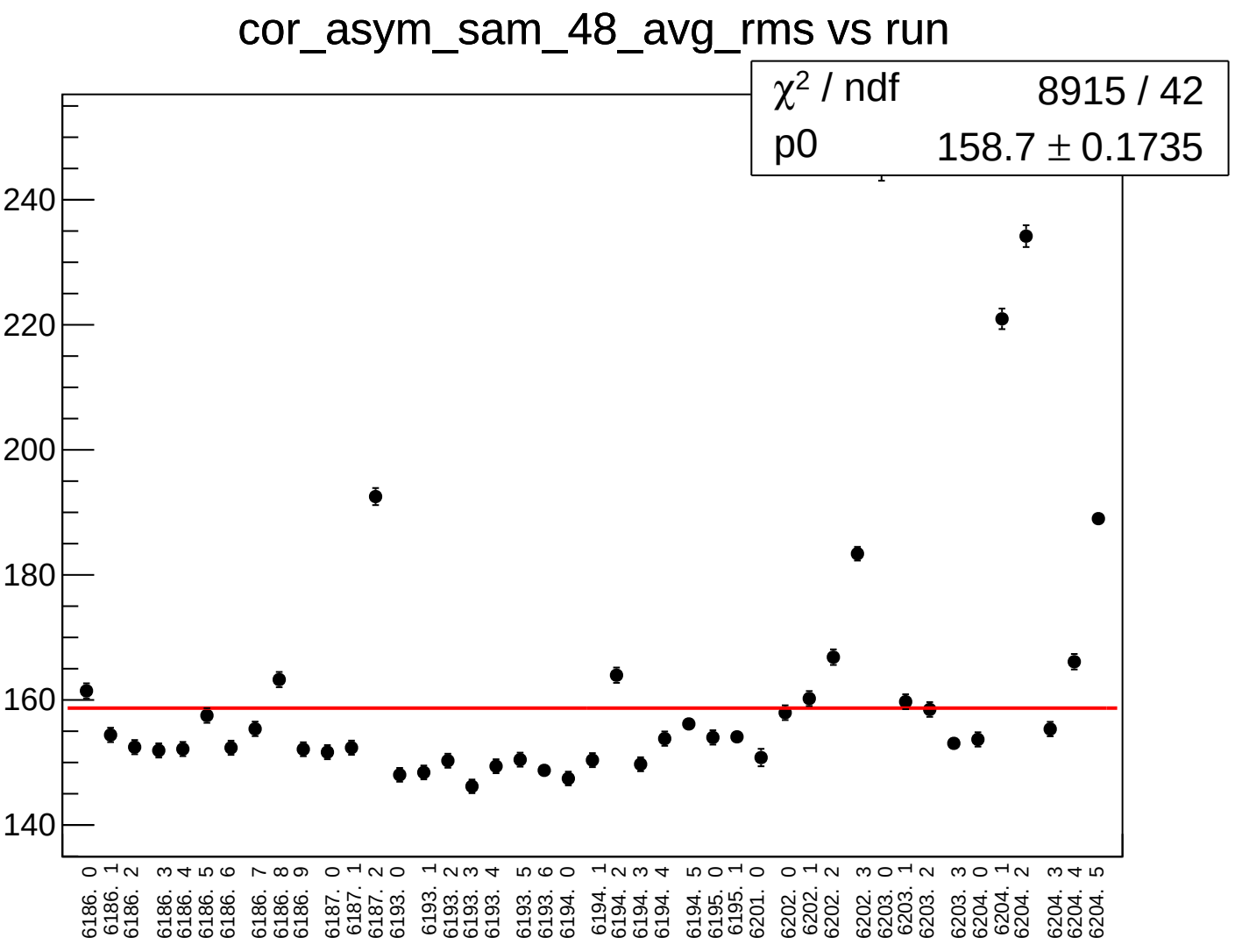

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 57.72 / 42
p0 626.7 ± 2951
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −118.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean 0.01663
Std Dev 1.158
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 1771 / 42
p0 1917 ± 2.087
2300
2200
2100
2000
1900
1800
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_sam_48_avg_mean vs run
χ² / ndf 38.51 / 42
p0 −315.2 ± 245.4
6000
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −20.13
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 43
Mean 0.0287
Std Dev 0.9459
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 8915 / 42
p0 158.7 ± 0.1735
240
220
200
180
160
140
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
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6204. 2
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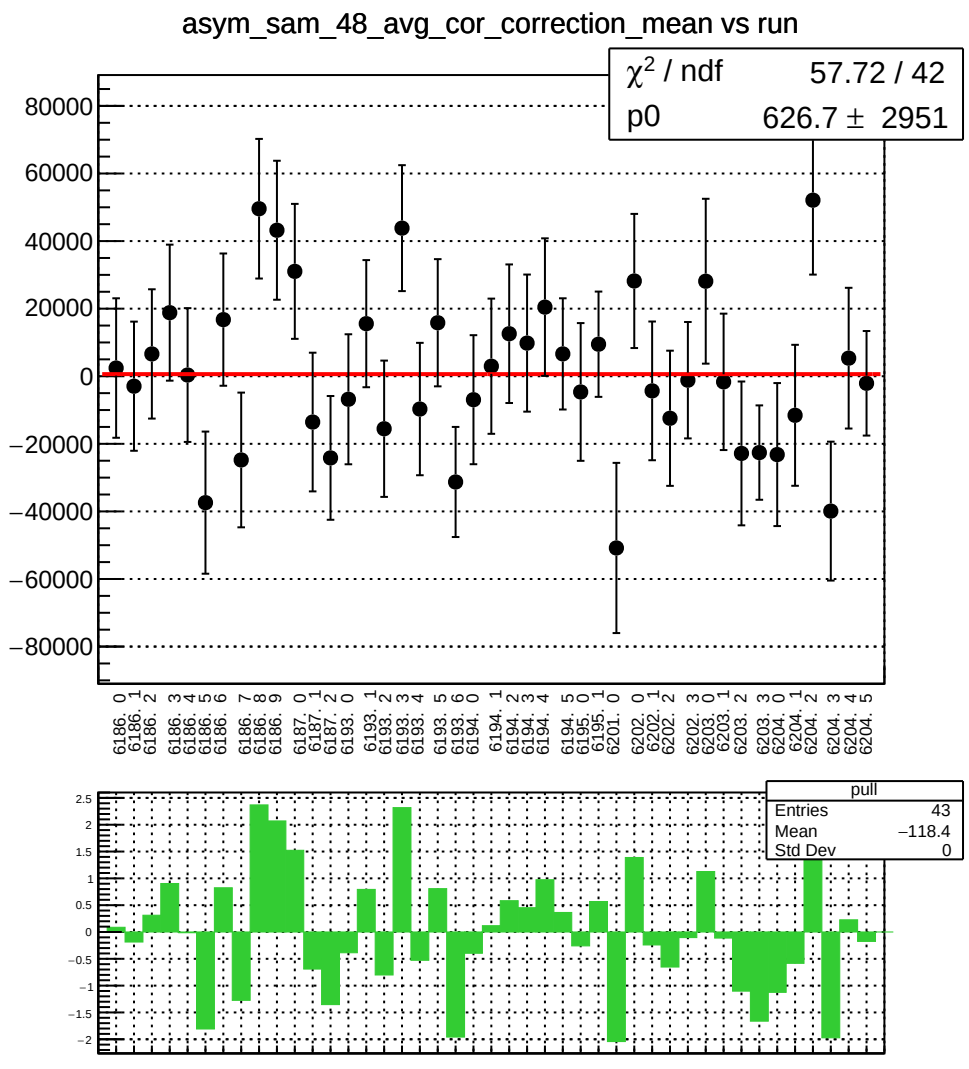
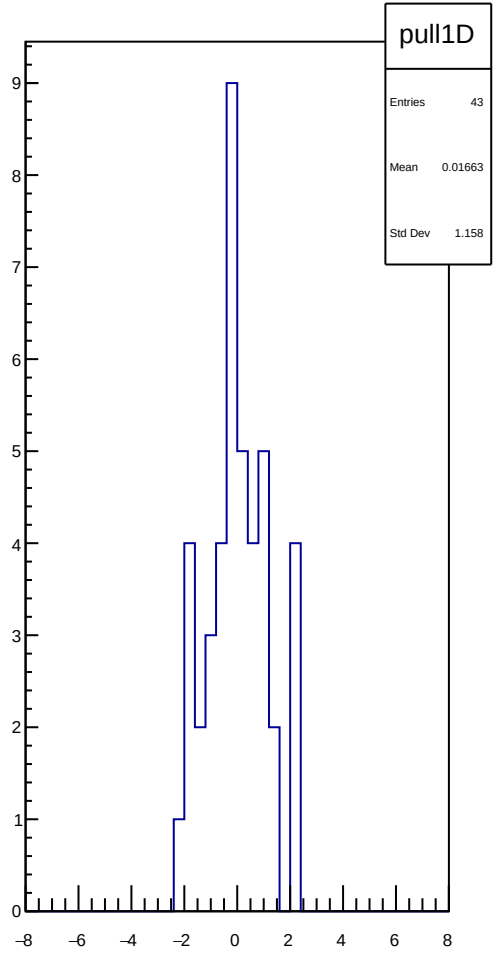
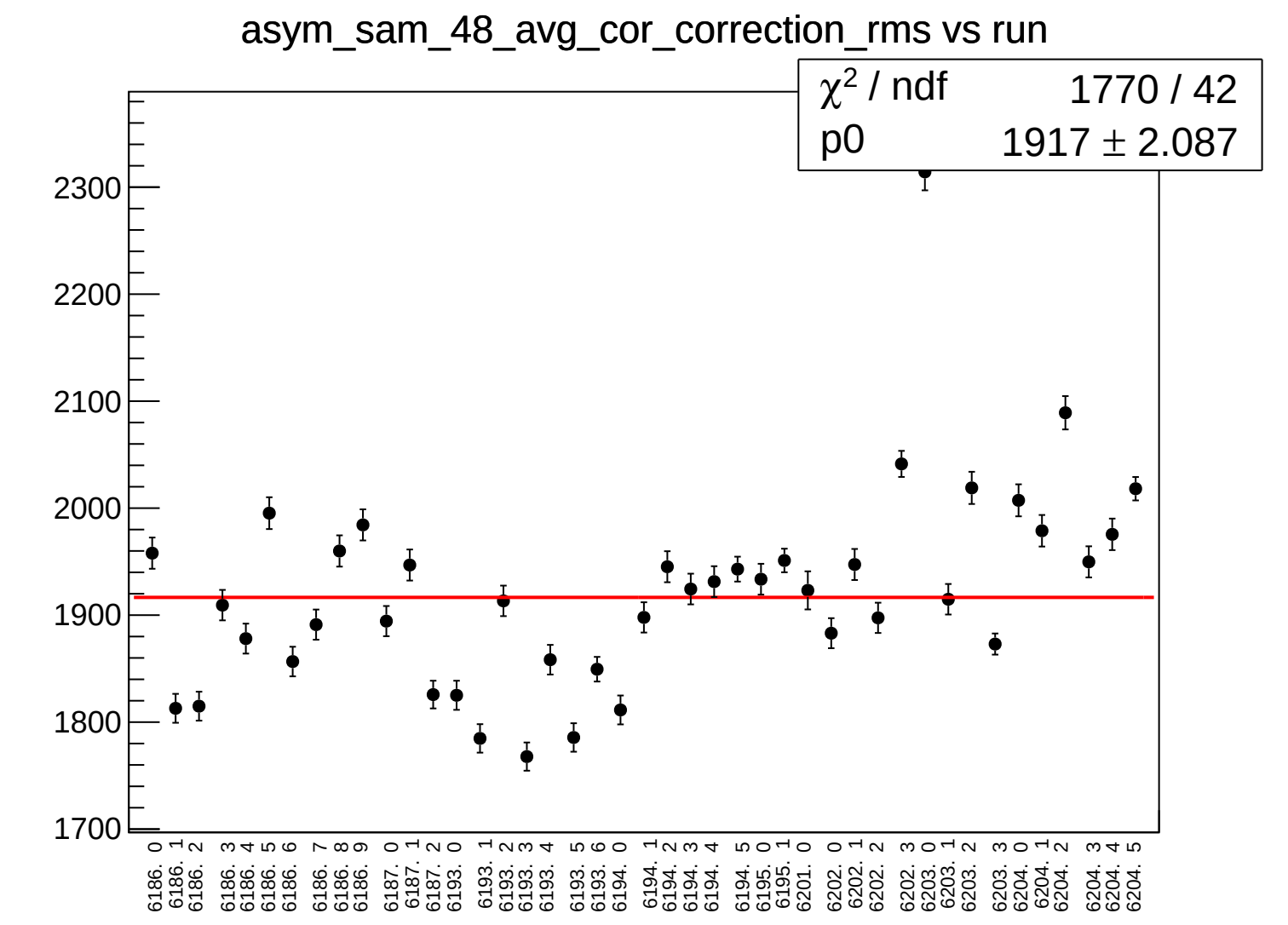
6204. 4
6204. 5


asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 57.72 / 42
p0 626.7 ± 2951
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −118.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean 0.01663
Std Dev 1.158
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1770 / 42
p0 1917 ± 2.087
2300
2200
2100
2000
1900
1800
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
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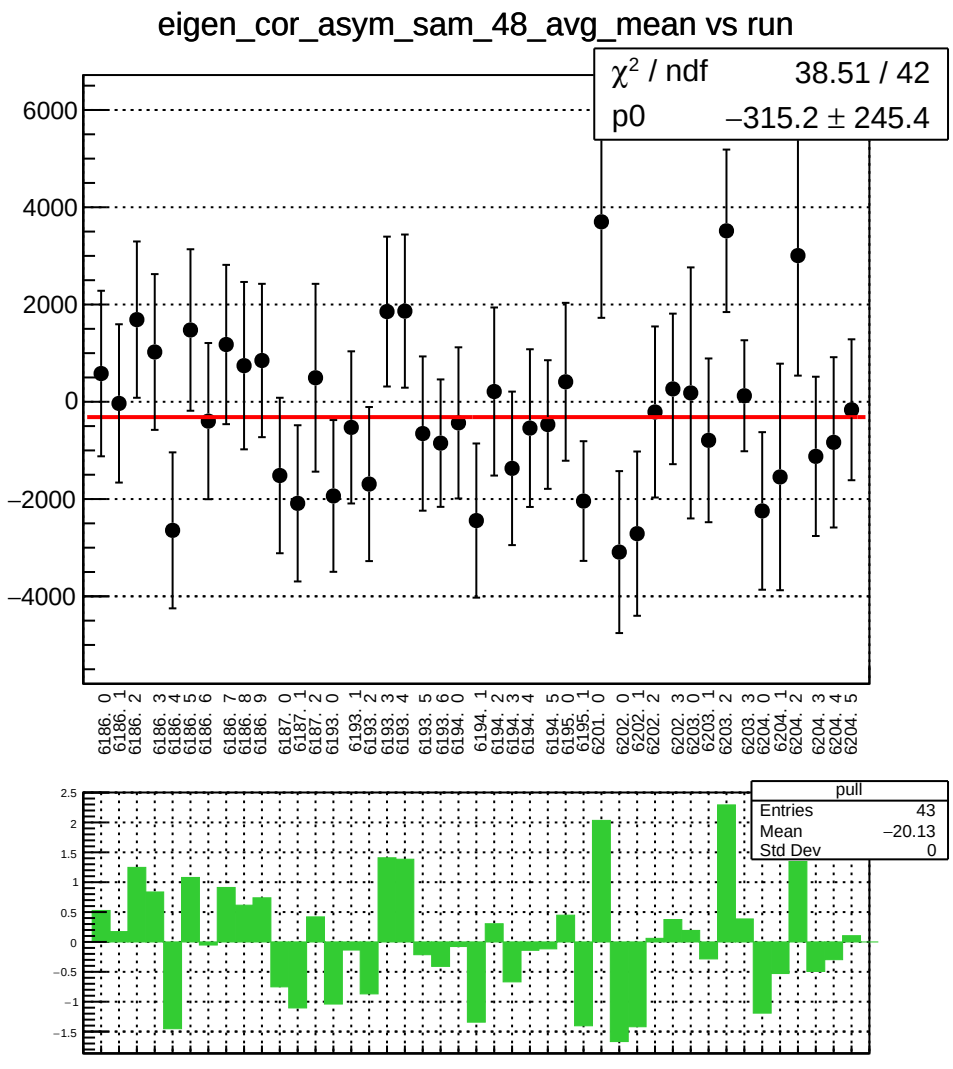
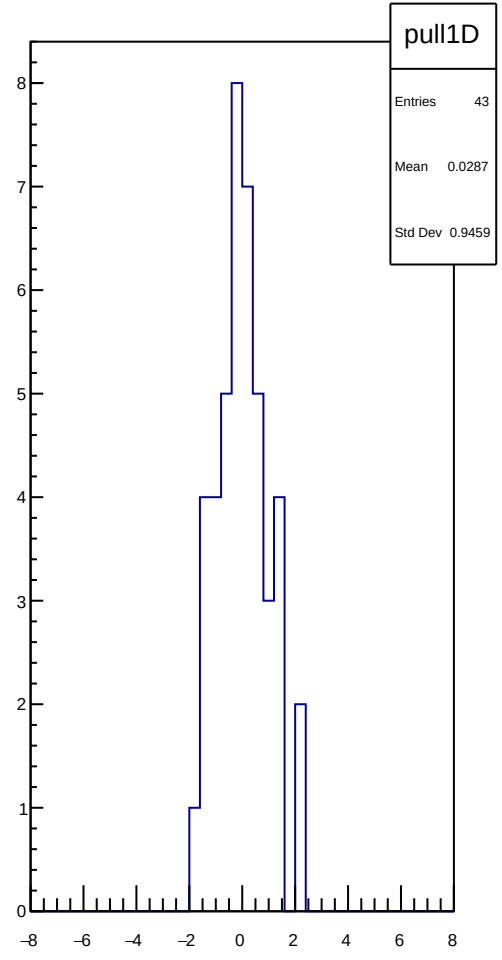
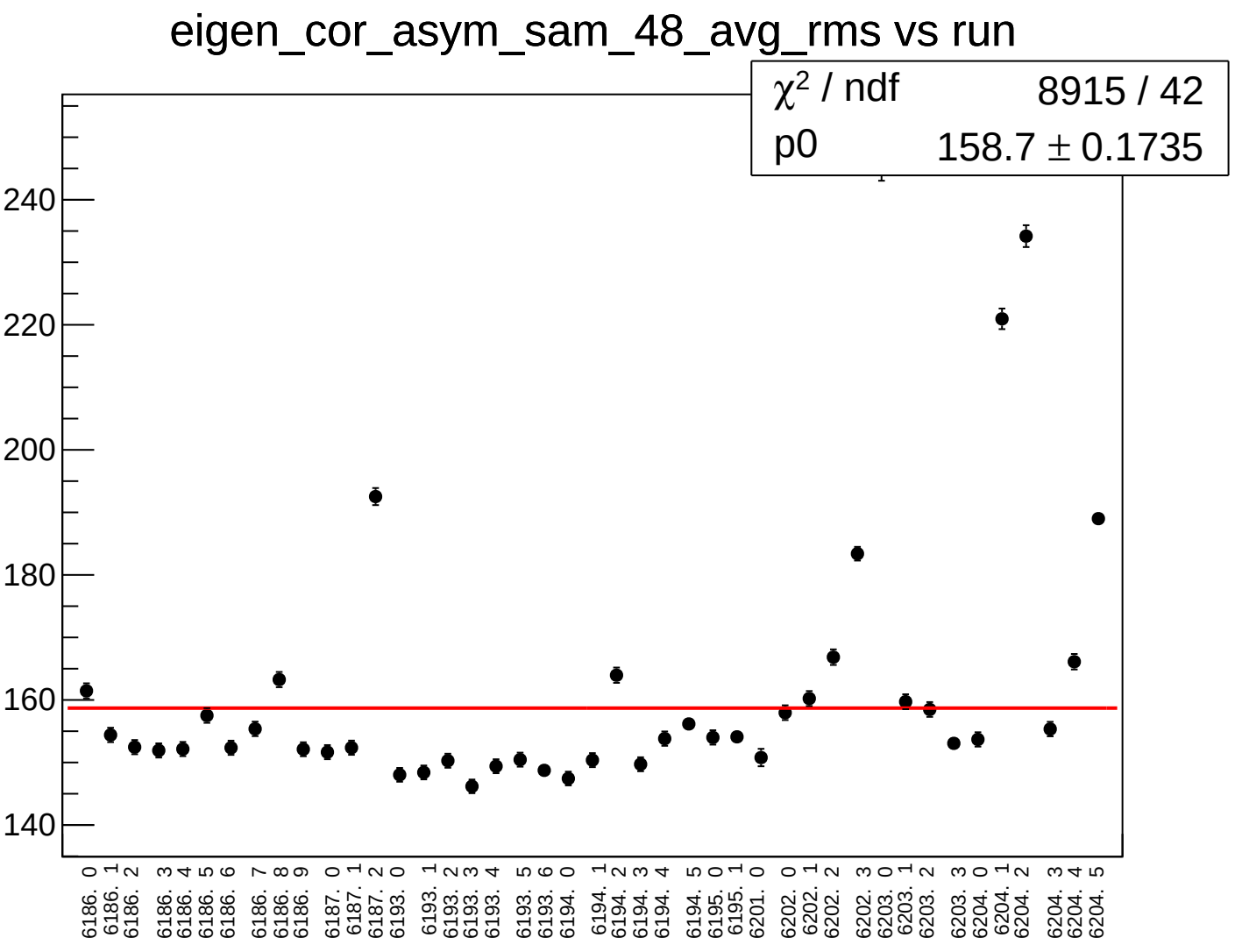
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 38.51 / 42
p0 −315.2 ± 245.4
6000
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −20.13
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 43
Mean 0.0287
Std Dev 0.9459
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 8915 / 42
p0 158.7 ± 0.1735
240
220
200
180
160
140
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 3
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6204. 2
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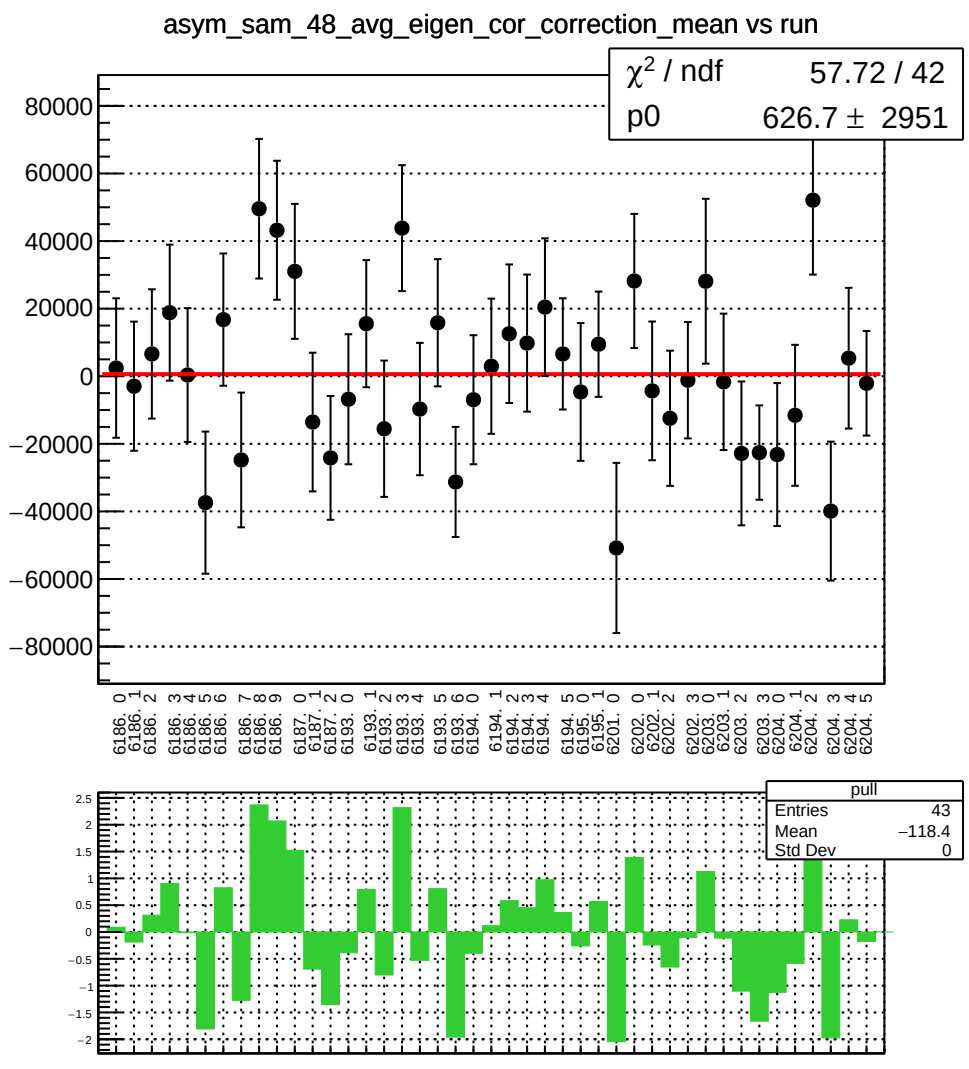
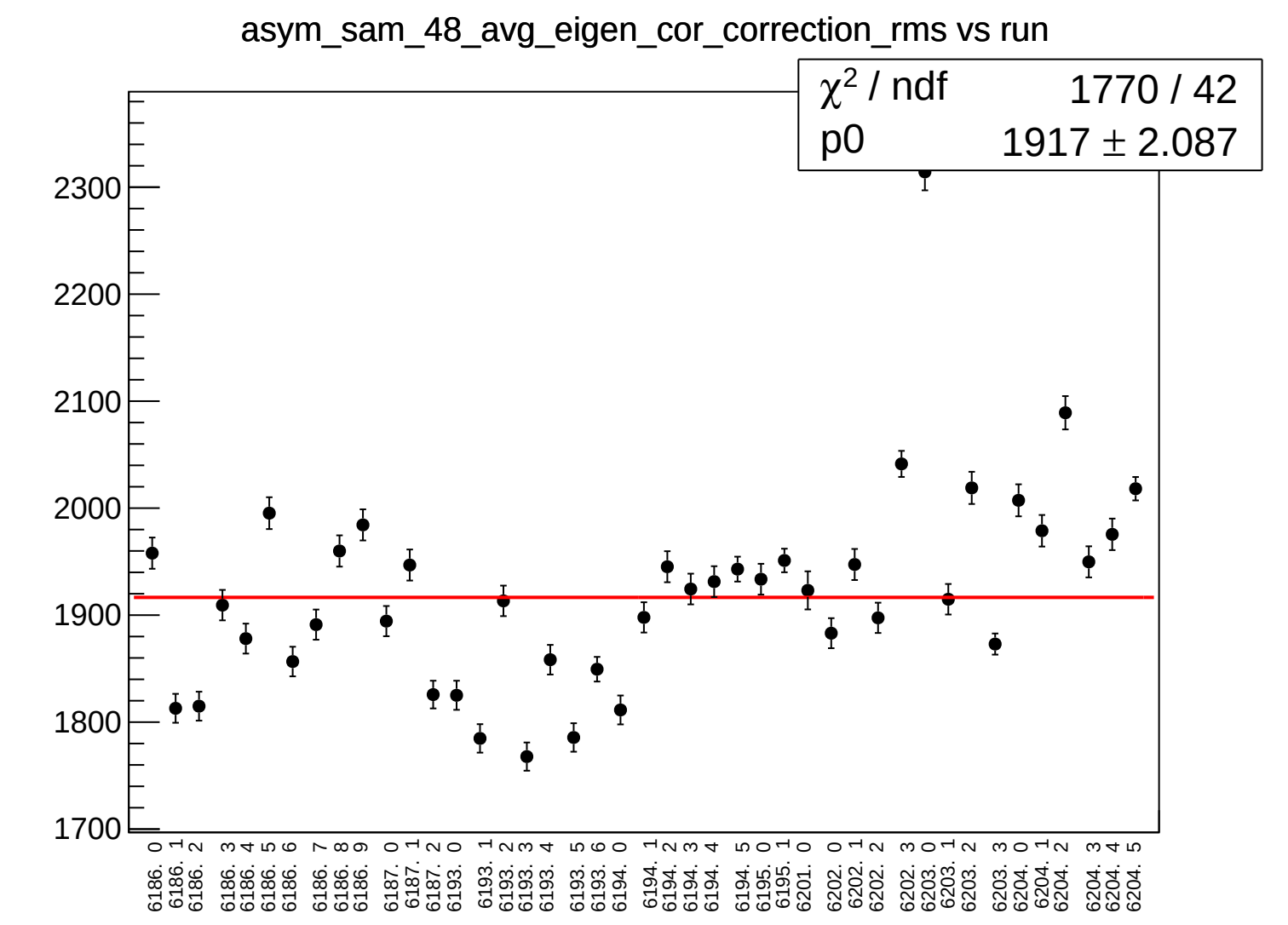
6204. 4
6204. 5


asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 57.72 / 42
p0 626.7 ± 2951
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −118.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01663
Std Dev 1.158
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1770 / 42
p0 1917 ± 2.087
2300
2200
2100
2000
1900
1800
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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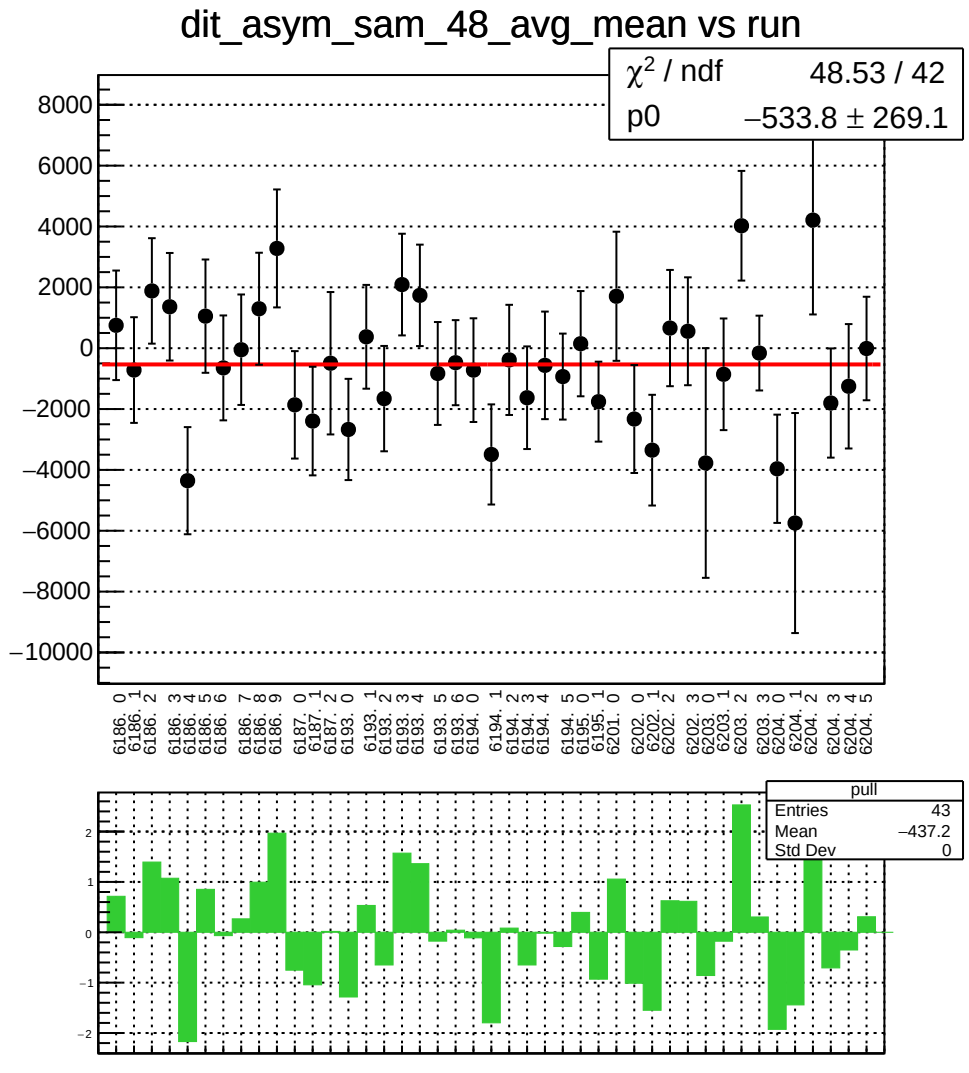
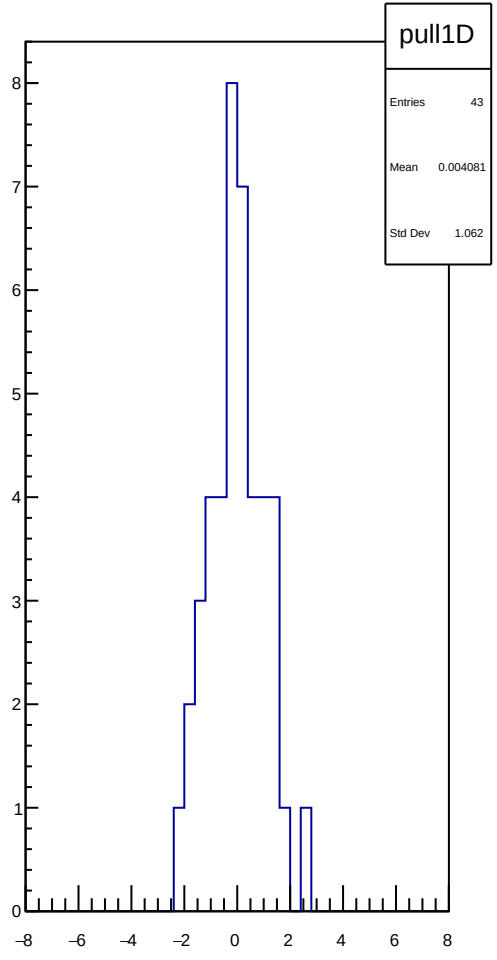
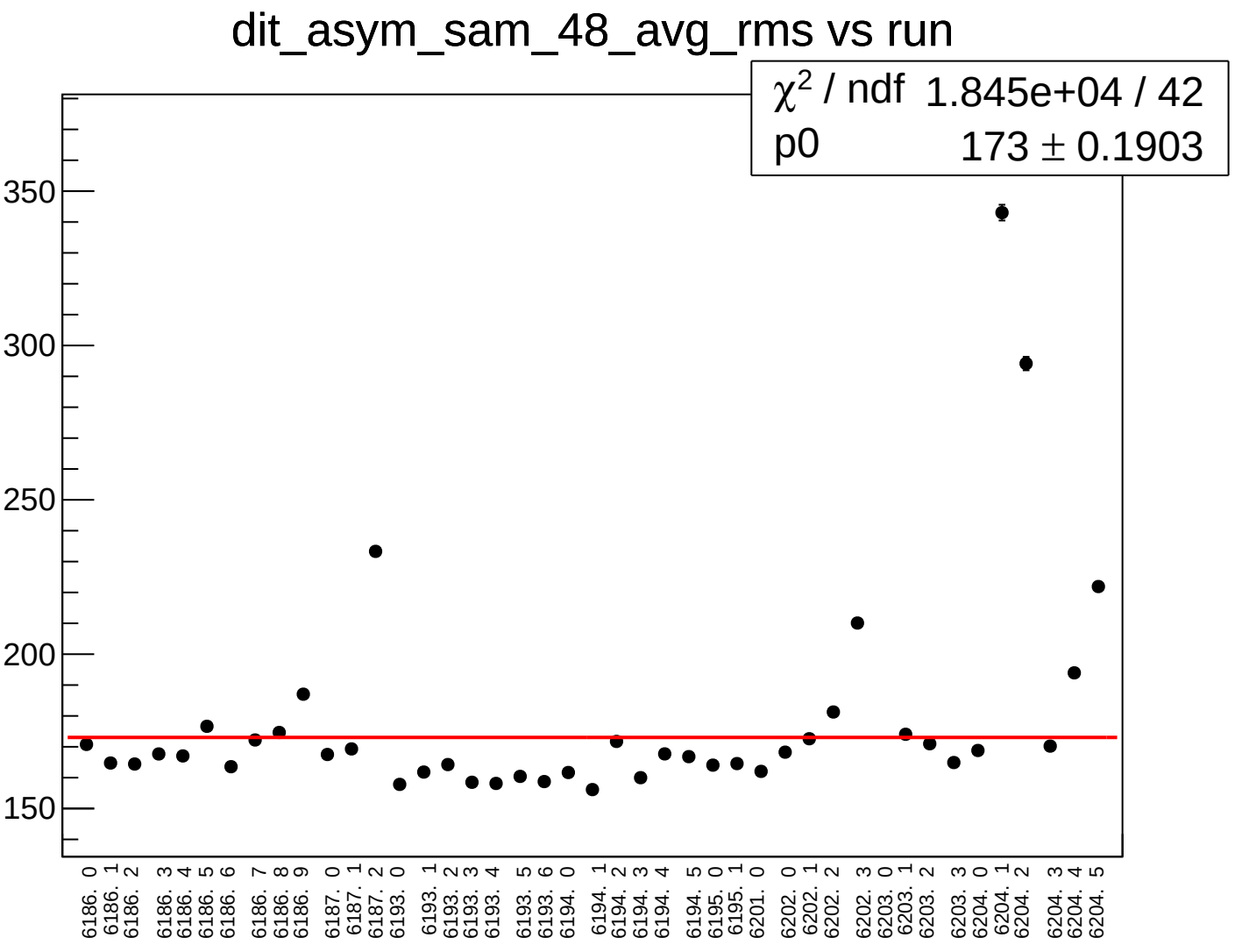
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_sam_48_avg_mean vs run
χ² / ndf 48.53 / 42
p0 −533.8 ± 269.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −437.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.004081
Std Dev 1.062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.845e+04 / 42
p0 173 ± 0.1903
350
300
250
200
150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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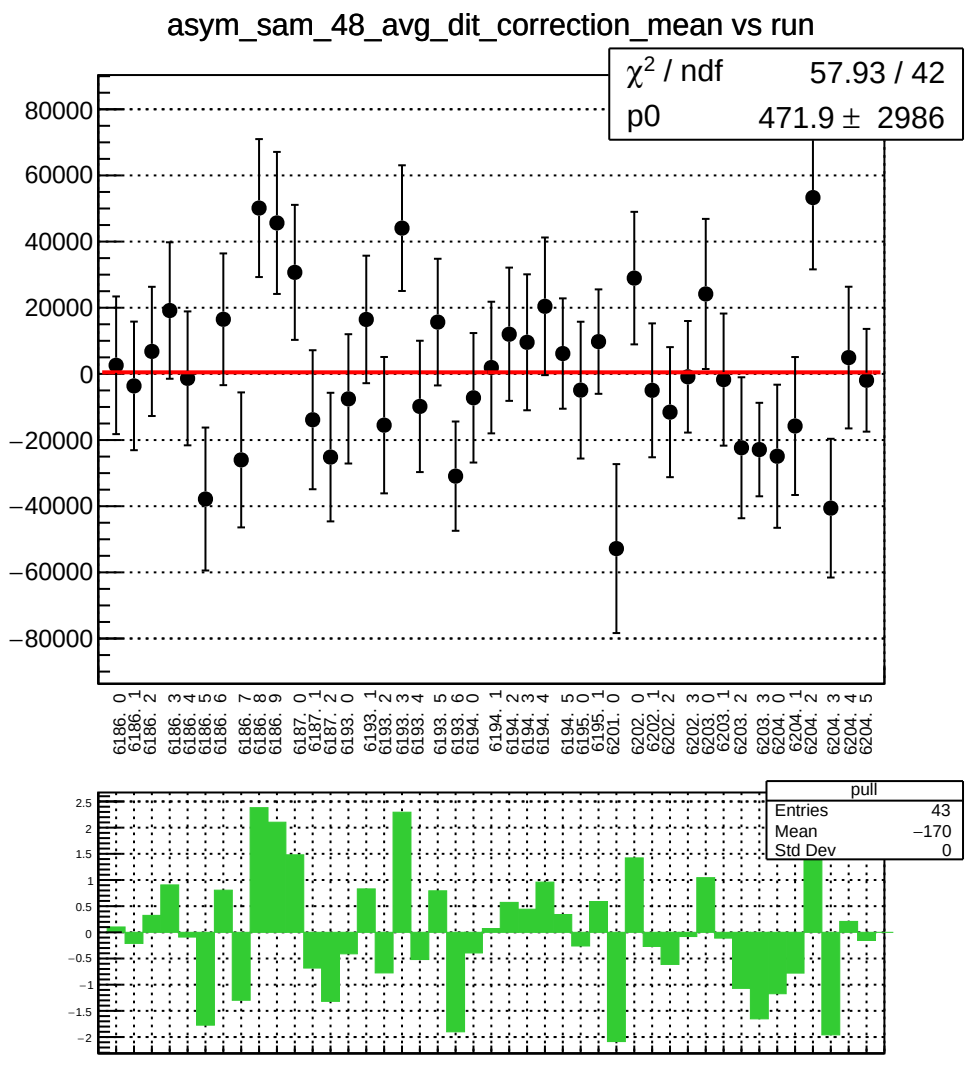
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 57.93 / 42
p0 471.9 ± 2986
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
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6193. 2
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6194. 0
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6194. 3
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6194. 5
6195. 0
6195. 1
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6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −170
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01233
Std Dev 1.161
8
7
6
5
4
3
2
1
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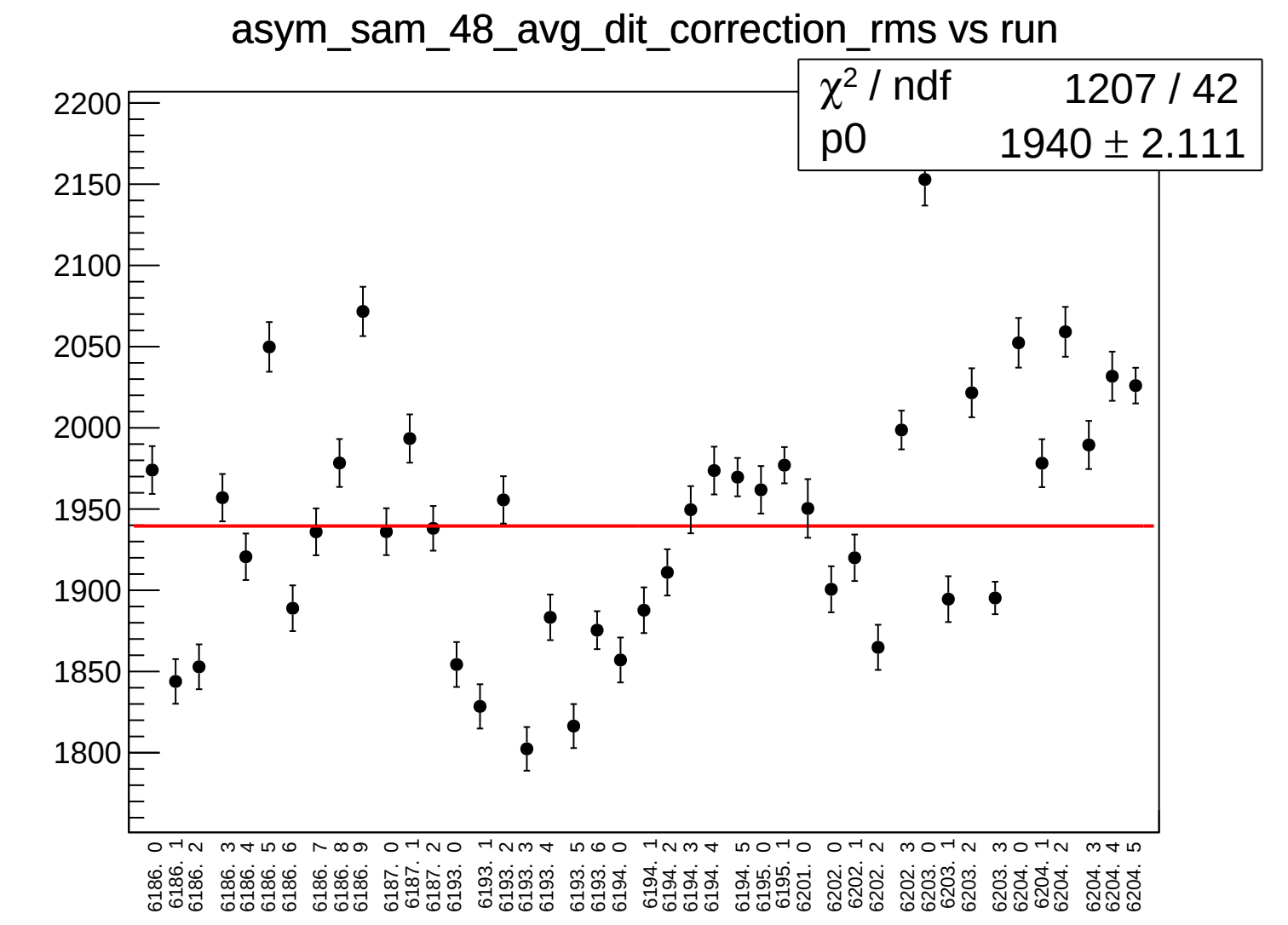
−6
−4
−2
0
2
4
6
8


asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 1207 / 42
p0 1940 ± 2.111
2200
2150
2100
2050
2000
1950
1900
1850
1800
6186. 0
6186. 1
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6186. 4
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6187. 0
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6187. 2
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6194. 4
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6195. 1
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6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
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6204. 0
6204. 1
6204. 2
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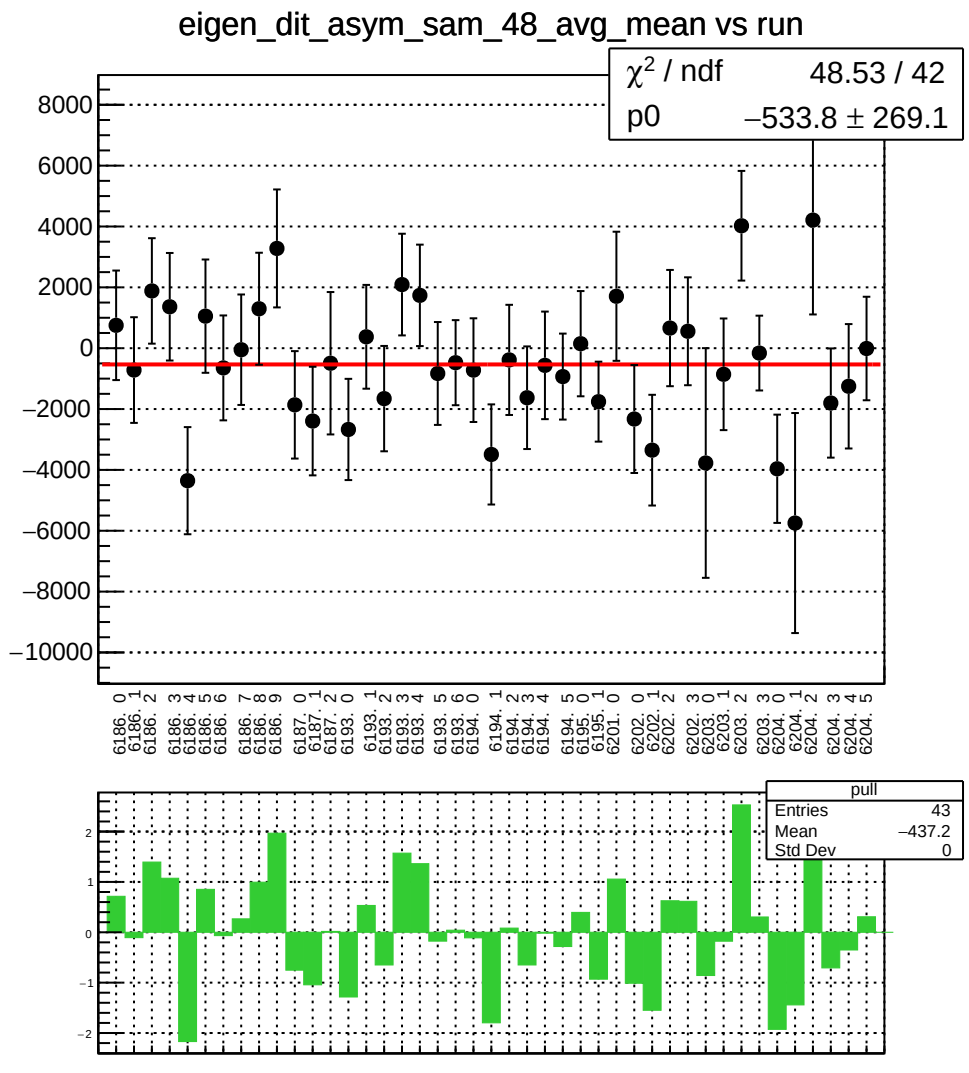
6204. 4
6204. 5


eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 48.53 / 42
p0 −533.8 ± 269.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6186. 0
6186. 1
6186. 2
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6187. 0
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6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
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6204. 0
6204. 1
6204. 2
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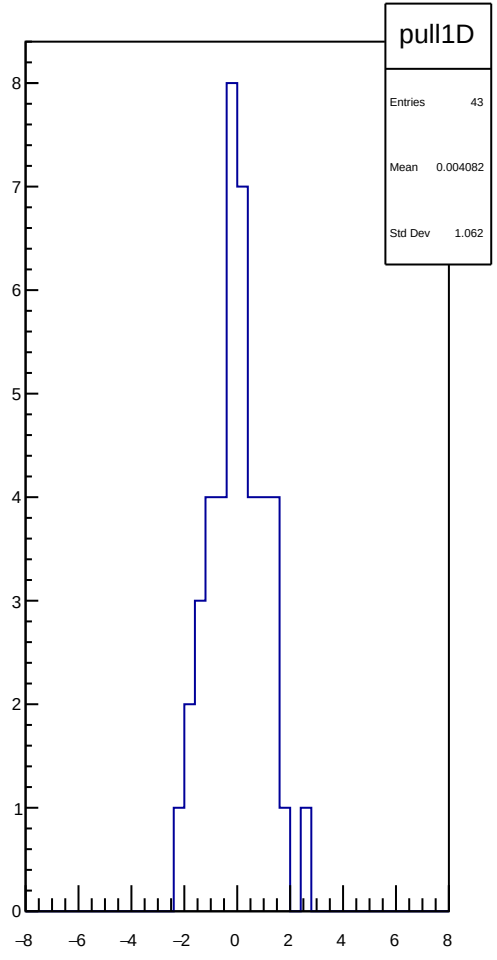
6204. 4
6204. 5
pull
Entries 43
Mean −437.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.004082
Std Dev 1.062
8
7
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5
4
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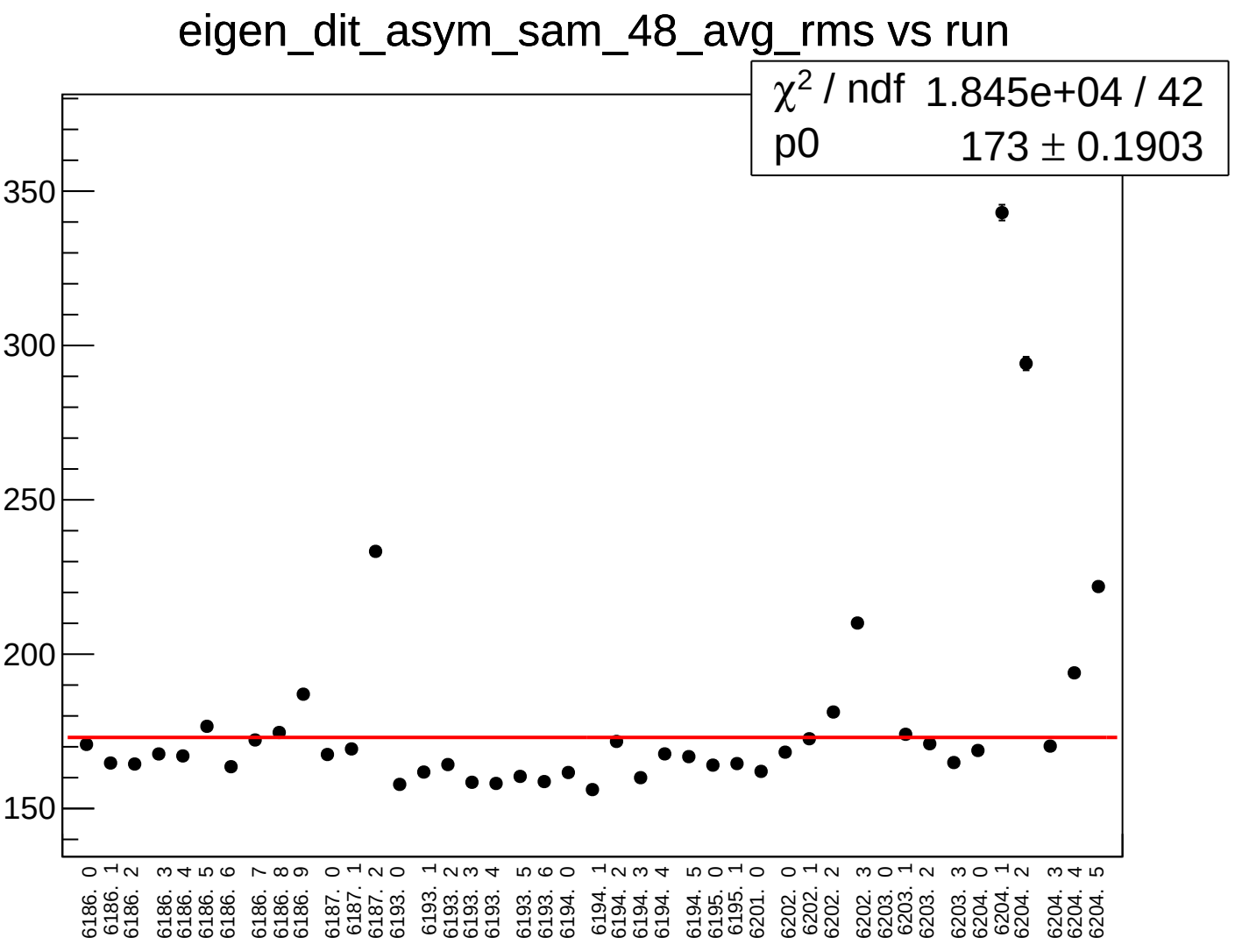
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.845e+04 / 42
p0 173 ± 0.1903
350
300
250
200
150
6186. 0
6186. 1
6186. 2
6186. 3
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6187. 0
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6194. 2
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6195. 1
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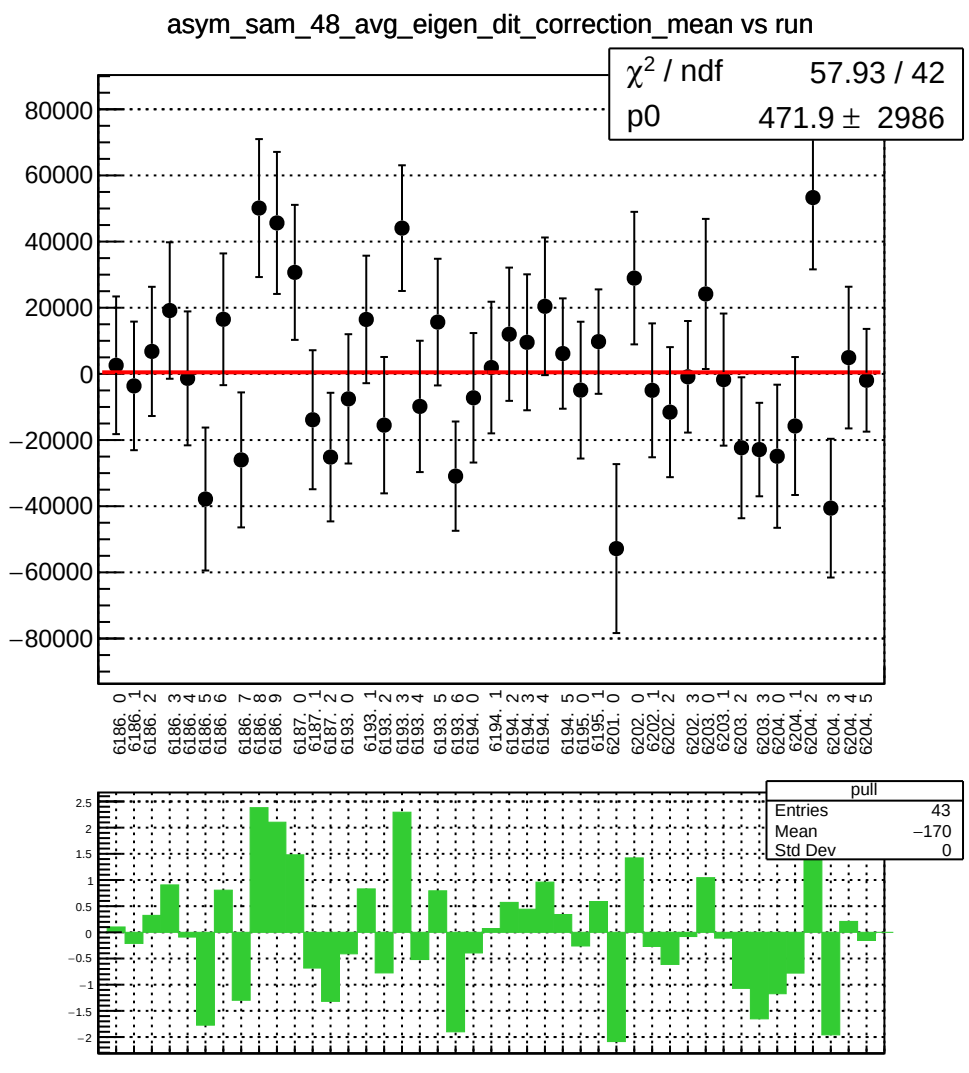
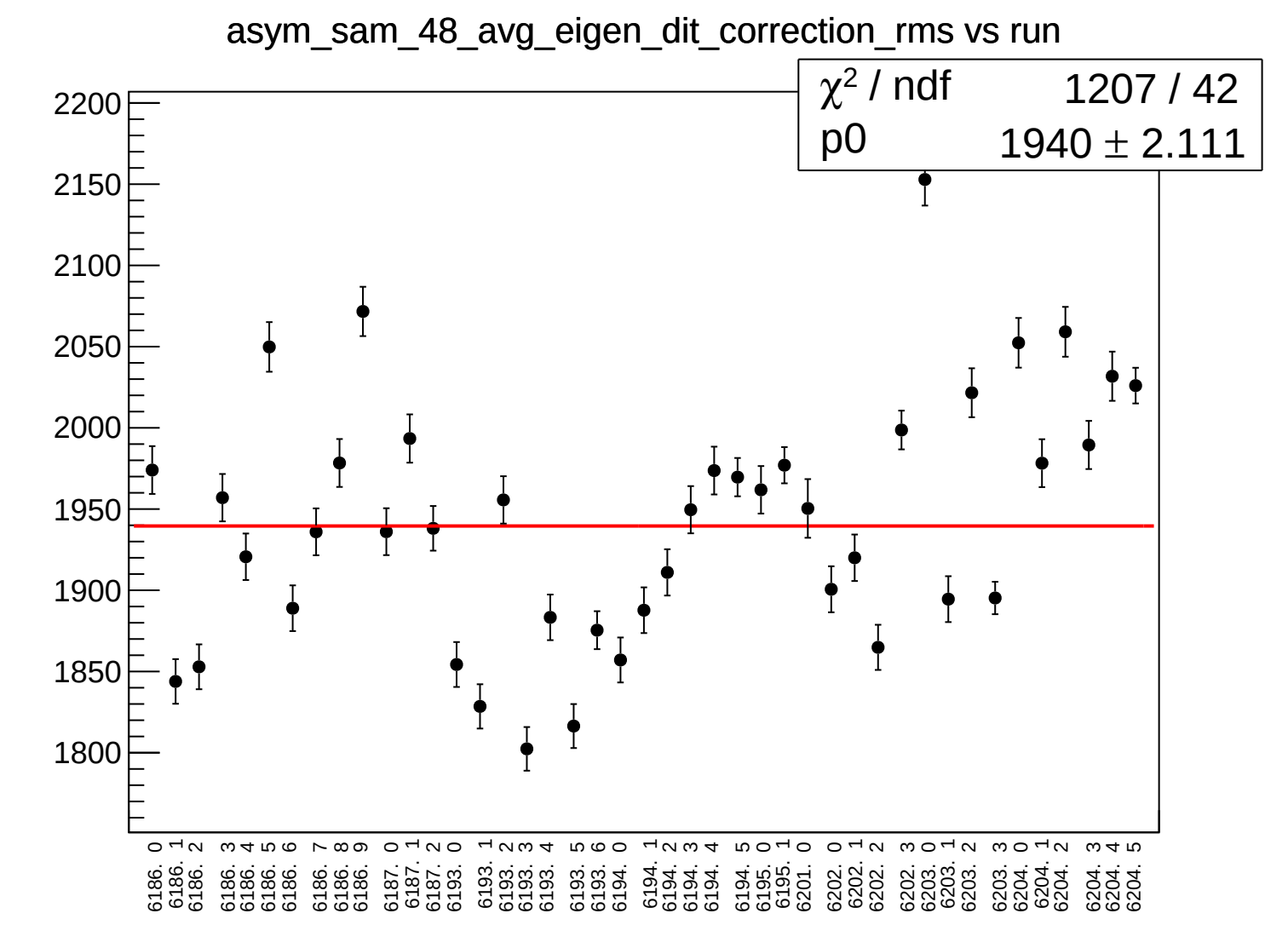
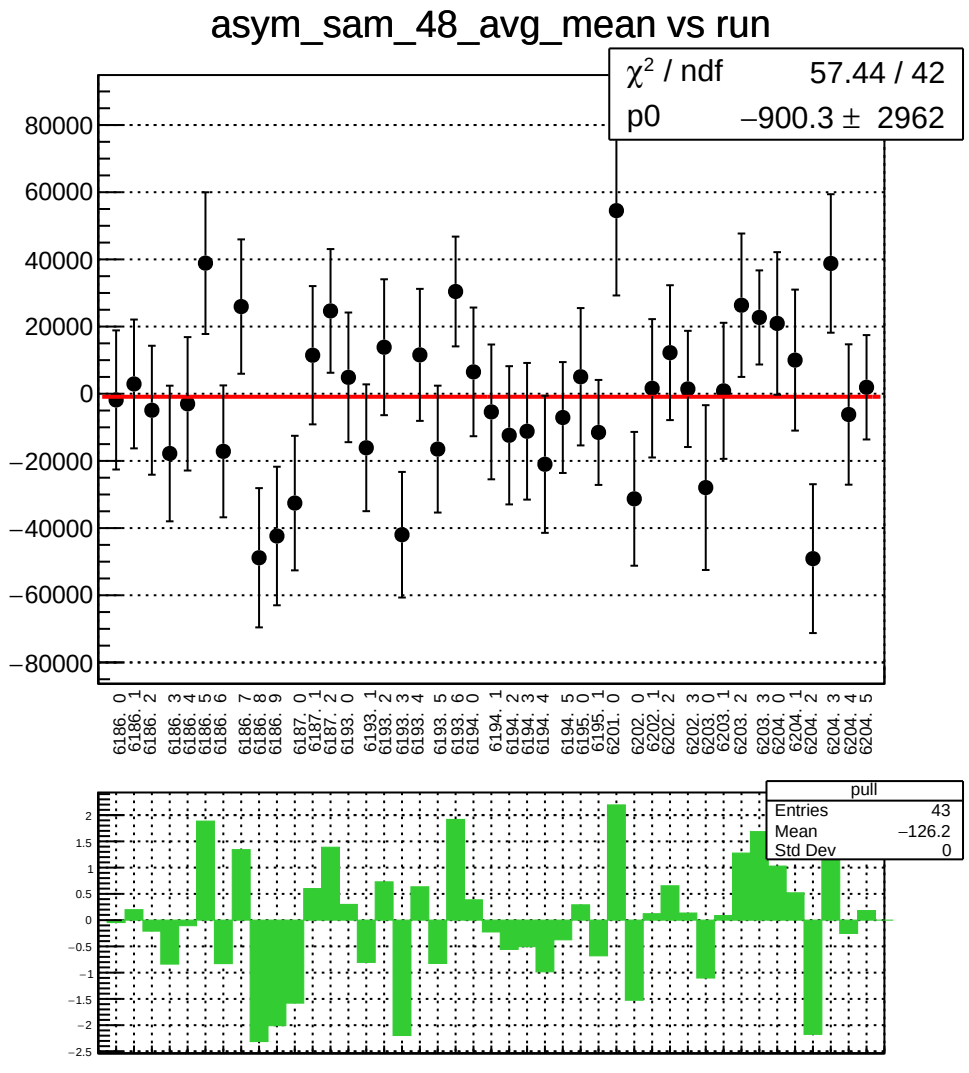
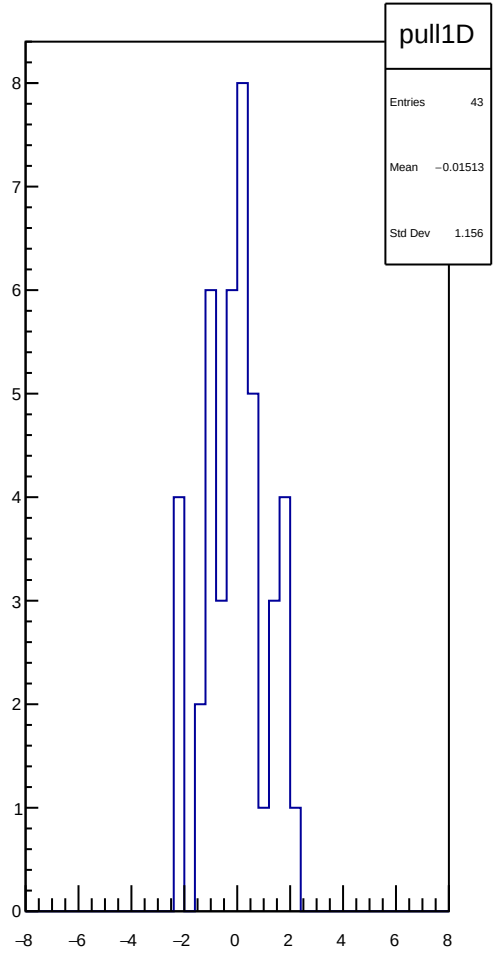
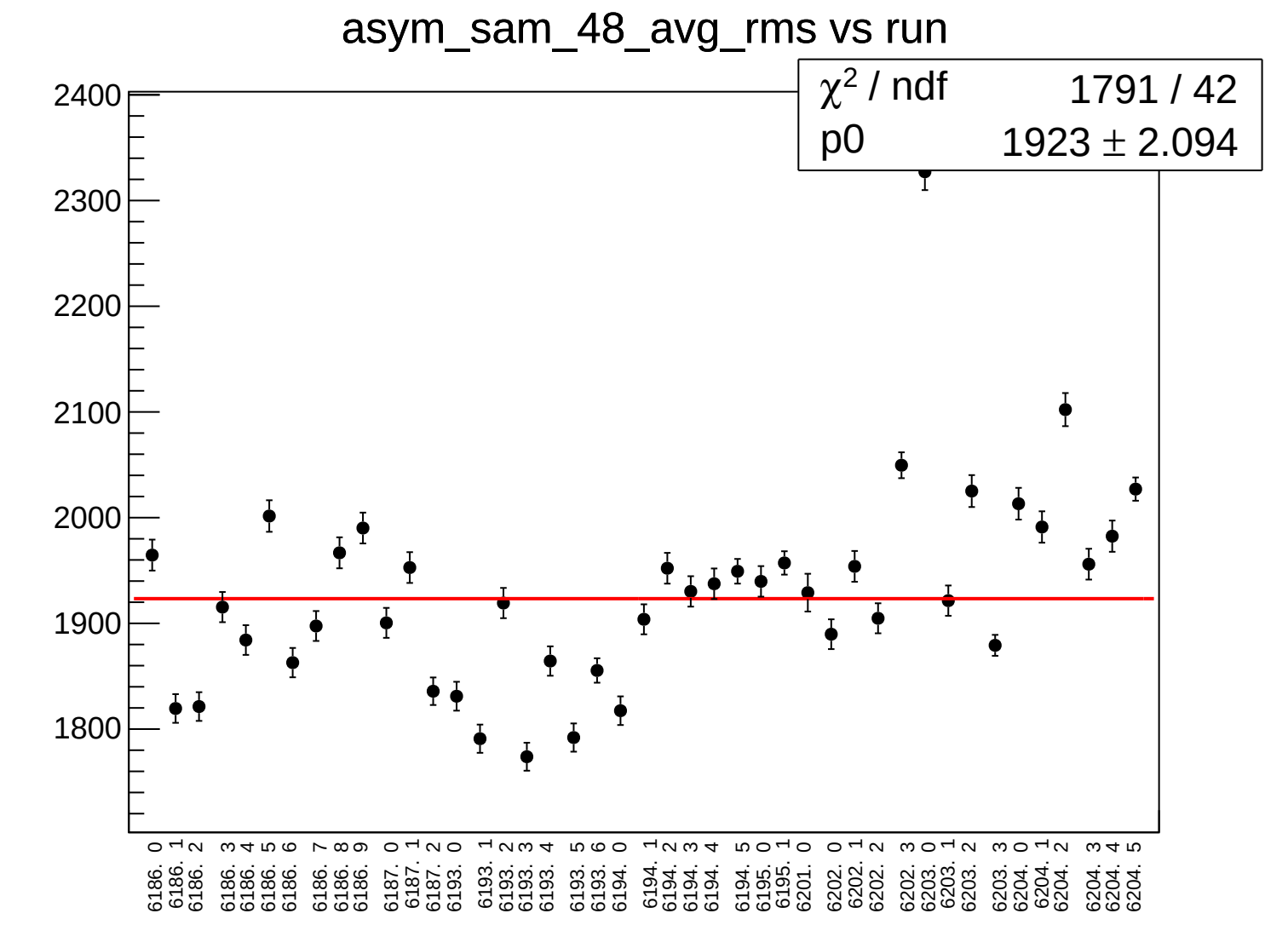
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

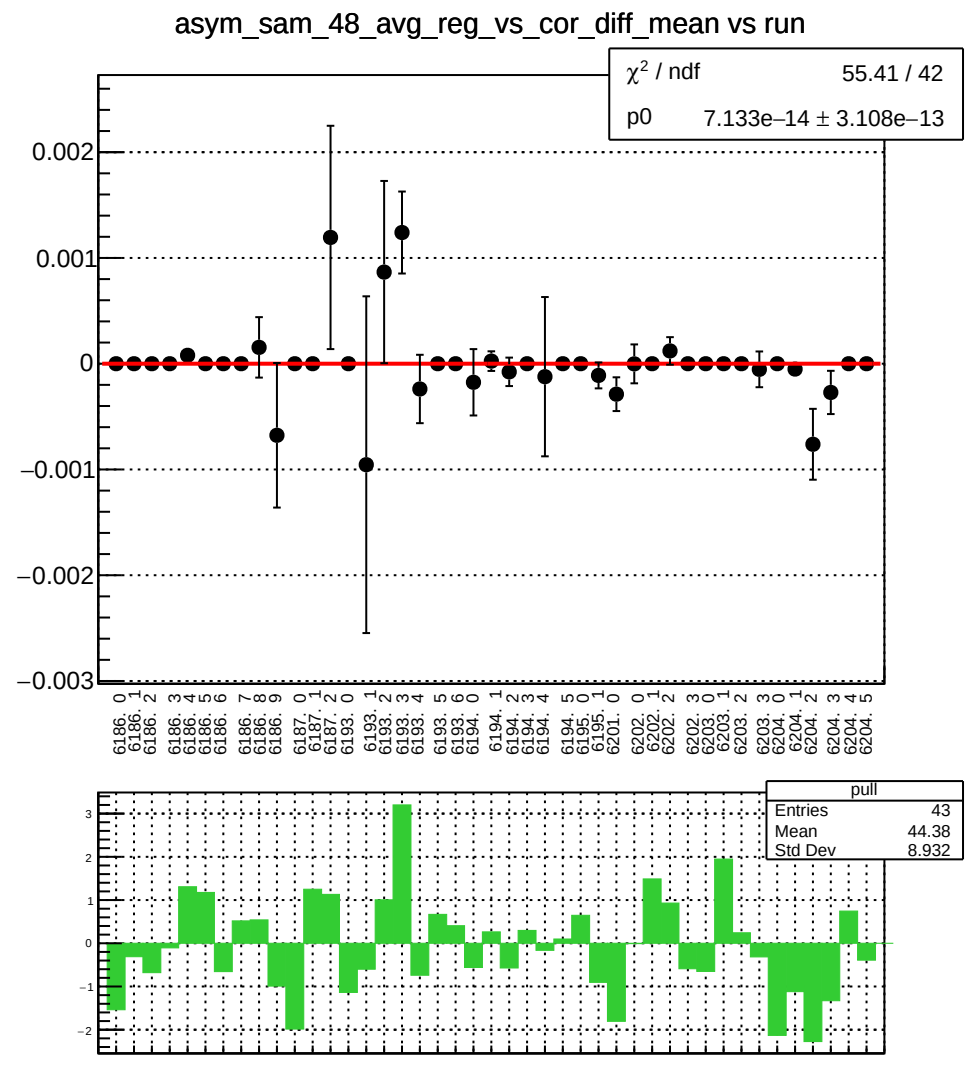

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 57.93 / 42
p0 471.9 ± 2986
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −170
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01233
Std Dev 1.161
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

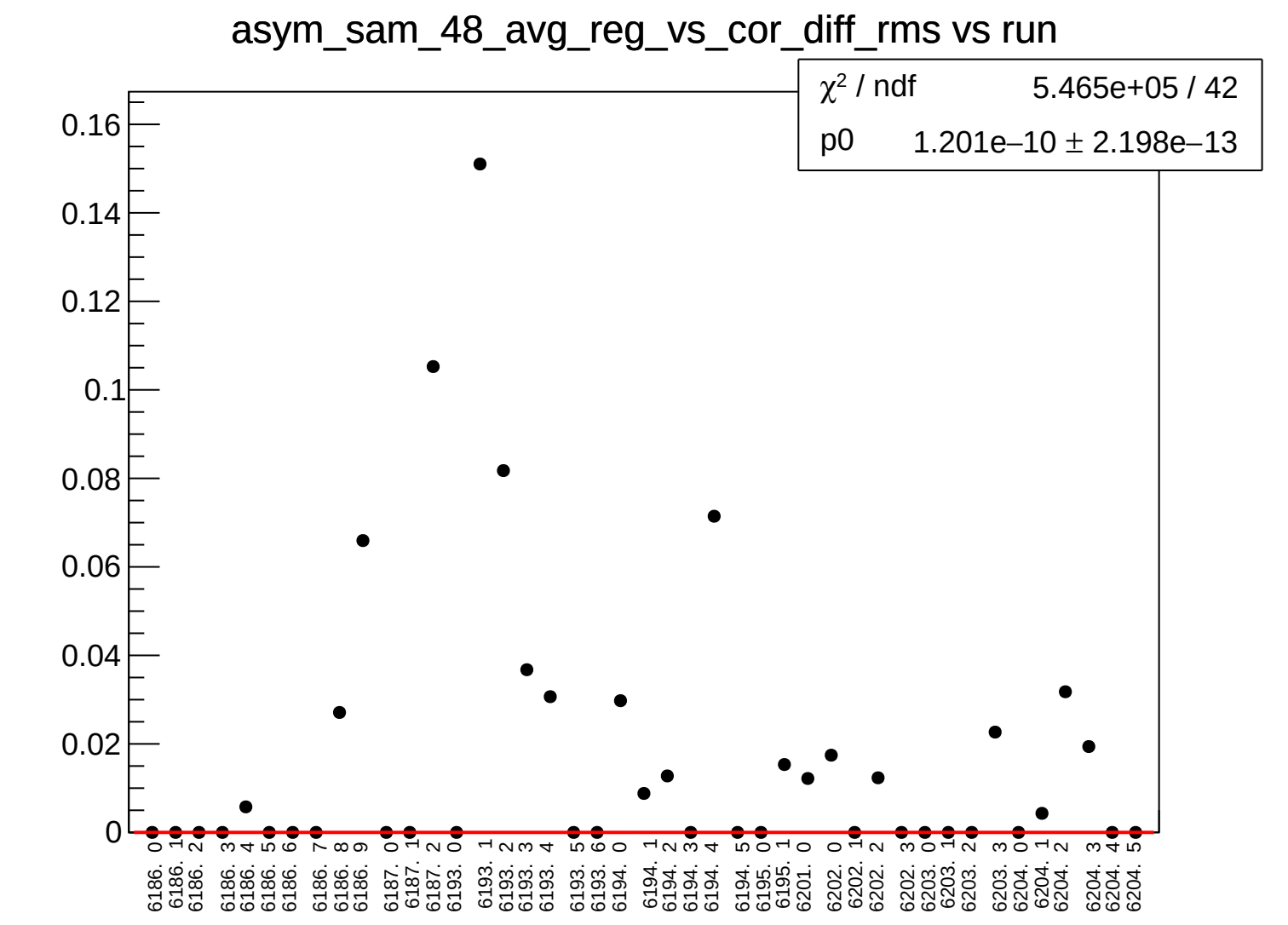

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1207 / 42
p0 1940 ± 2.111
2200
2150
2100
2050
2000
1950
1900
1850
1800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

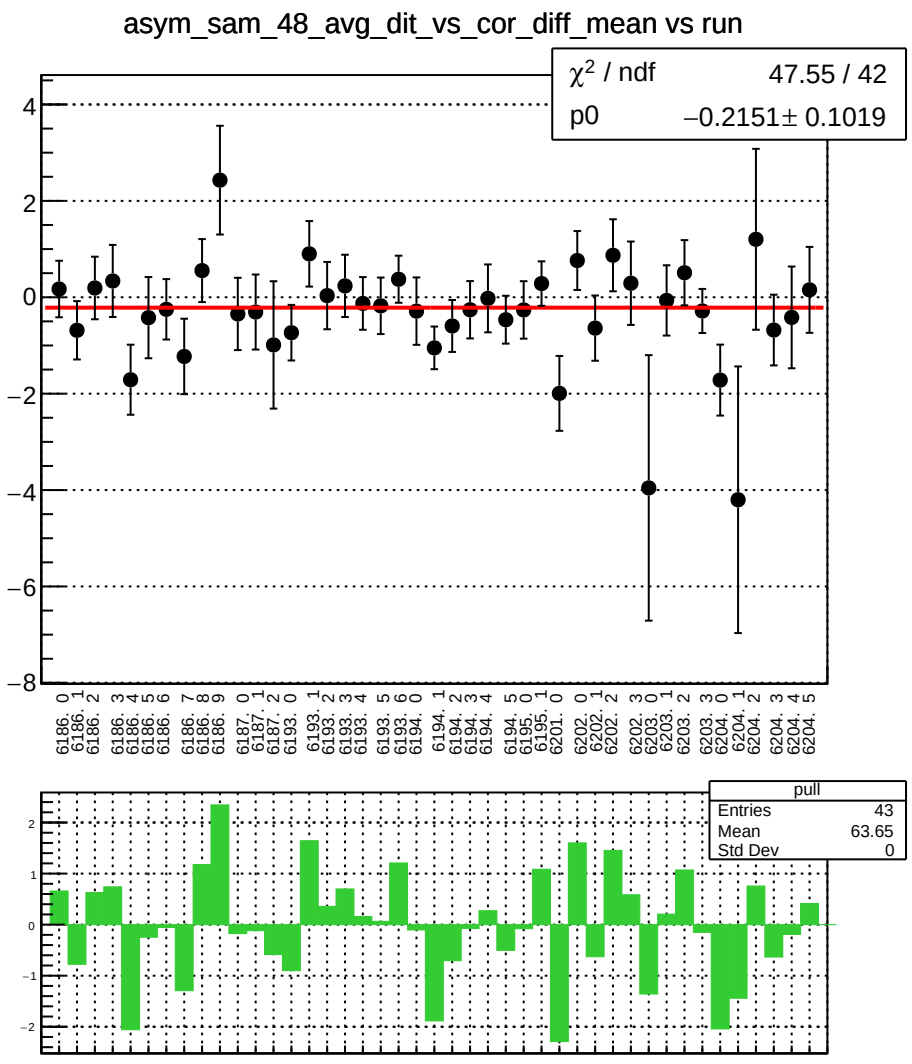

asym_sam_48_avg_mean vs run
χ² / ndf 57.44 / 42
p0 −900.3 ± 2962
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −126.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

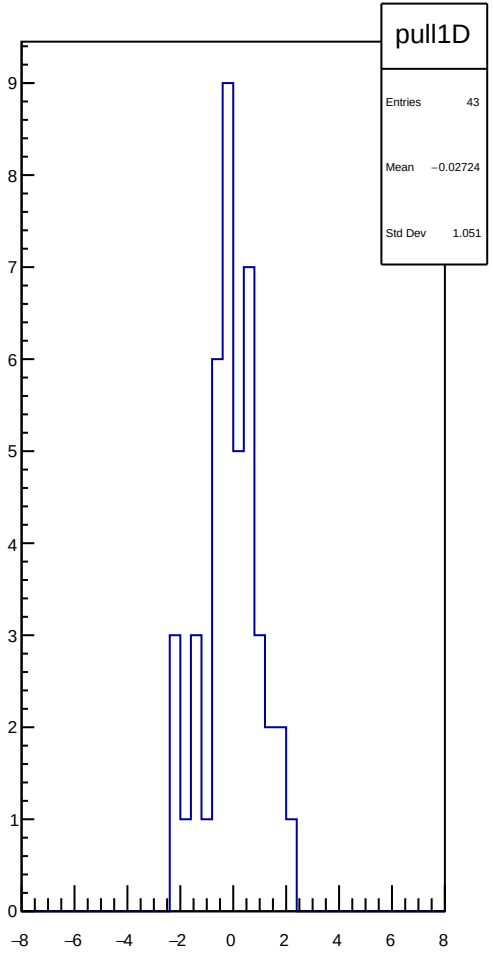

pull1D
Entries 43
Mean −0.01513
Std Dev 1.156
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

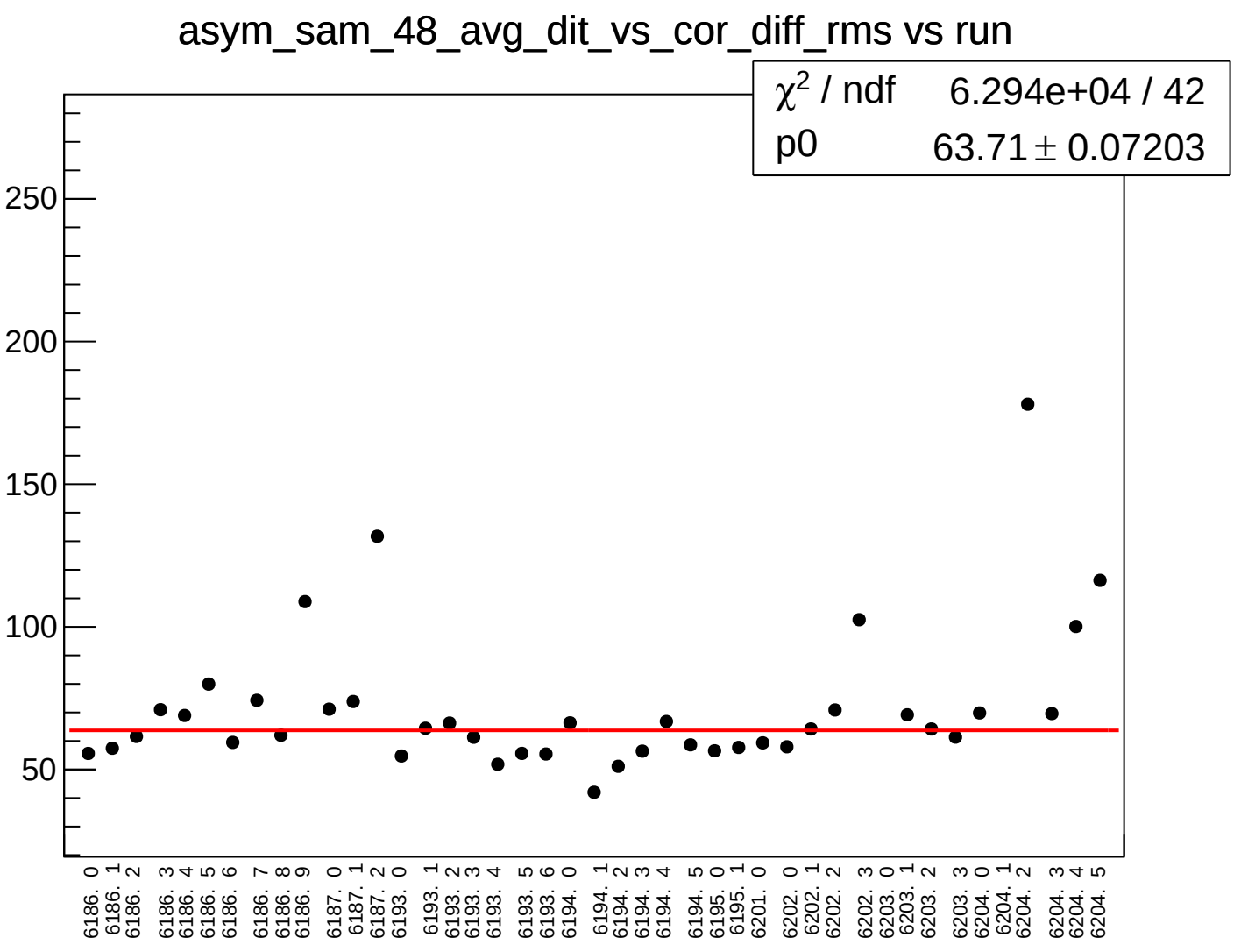

asym_sam_48_avg_rms vs run
χ² / ndf 1791 / 42
p0 1923 ± 2.094
2400
2300
2200
2100
2000
1900
1800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

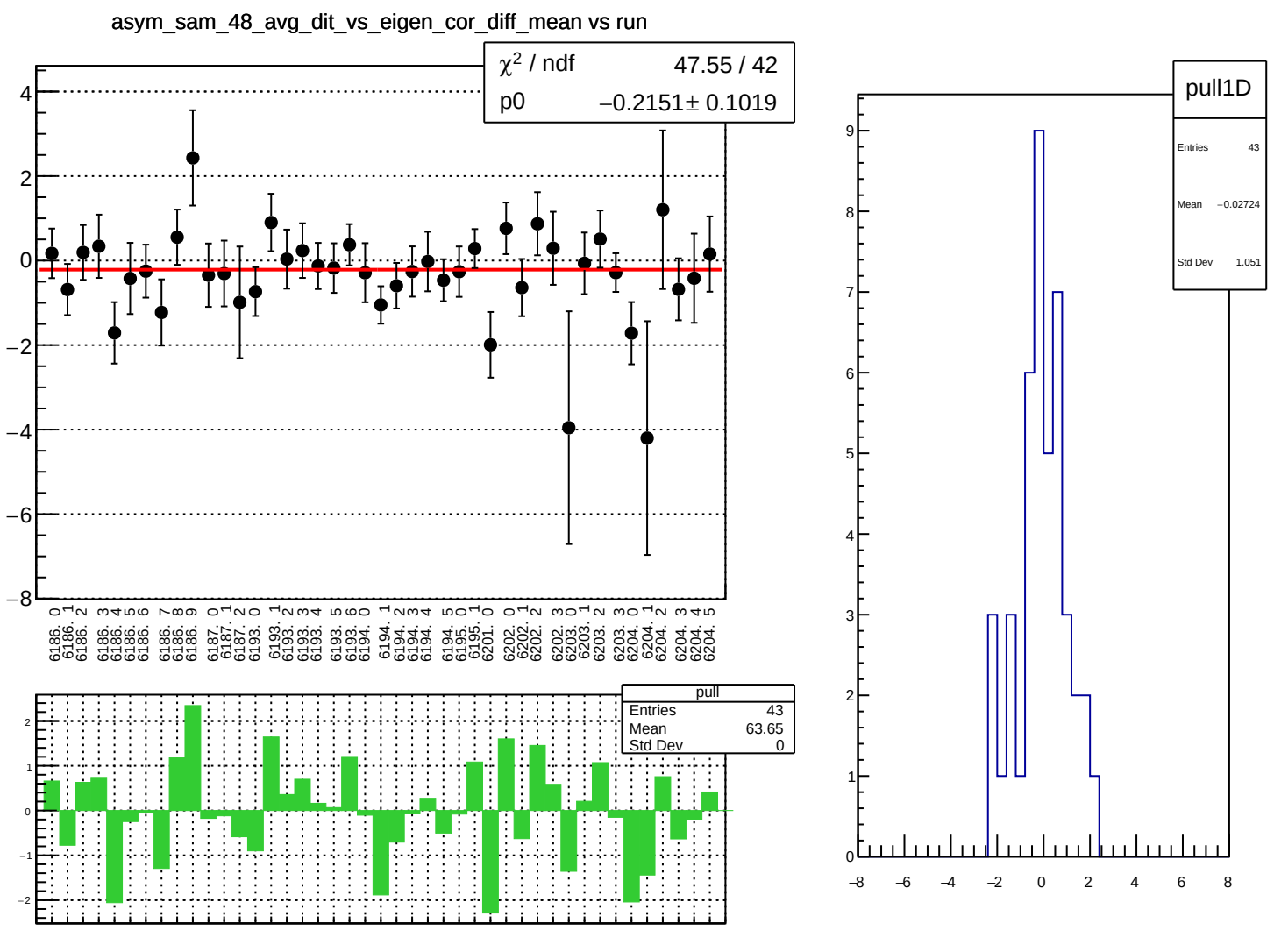

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 55.41 / 42
p0 7.133e−14 ± 3.108e−13
0.002
0.001
0
−0.001
−0.002
−0.003
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 44.38
Std Dev 8.932
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.08572
Std Dev 1.132
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

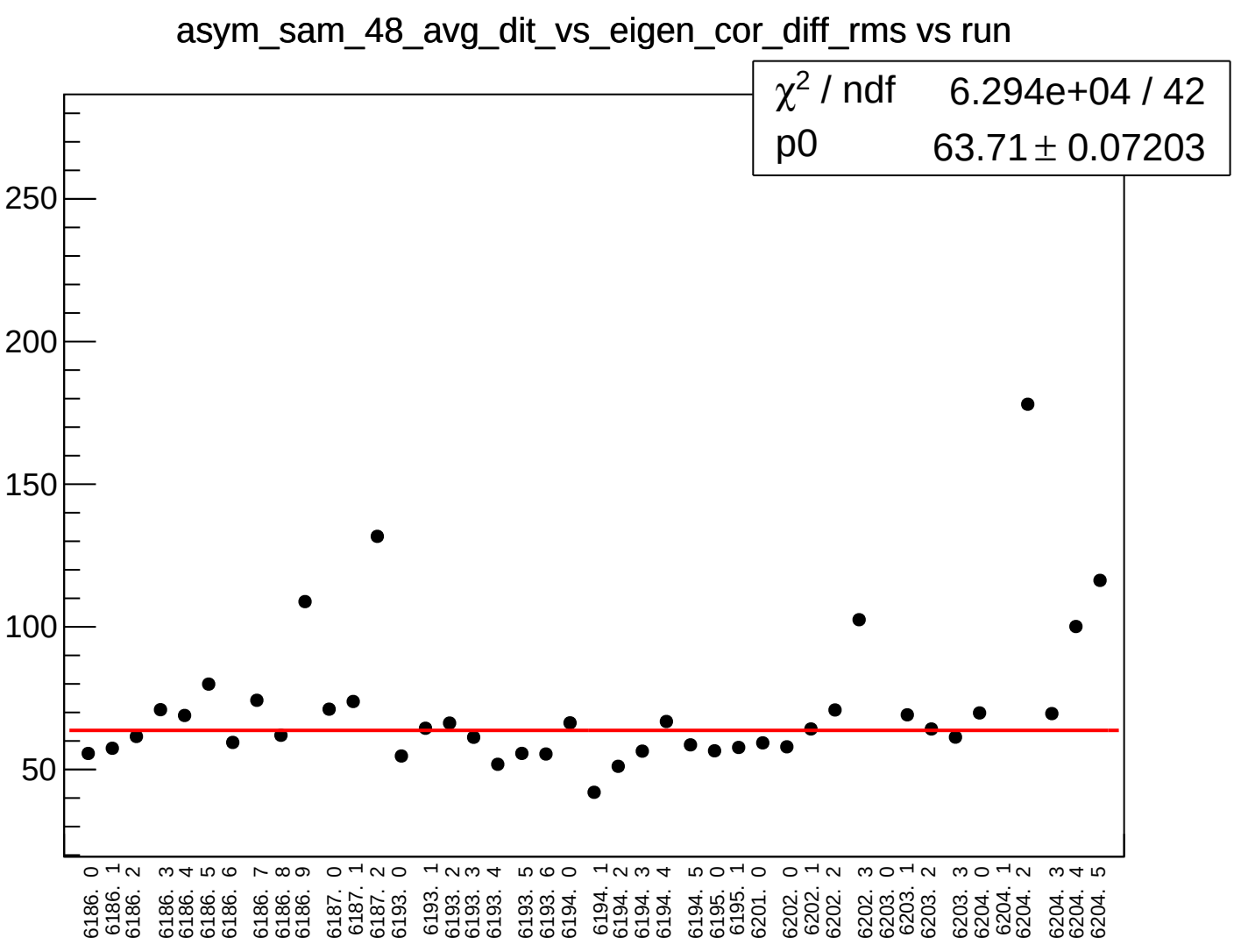

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.465e+05 / 42
p0 1.201e−10 ± 2.198e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

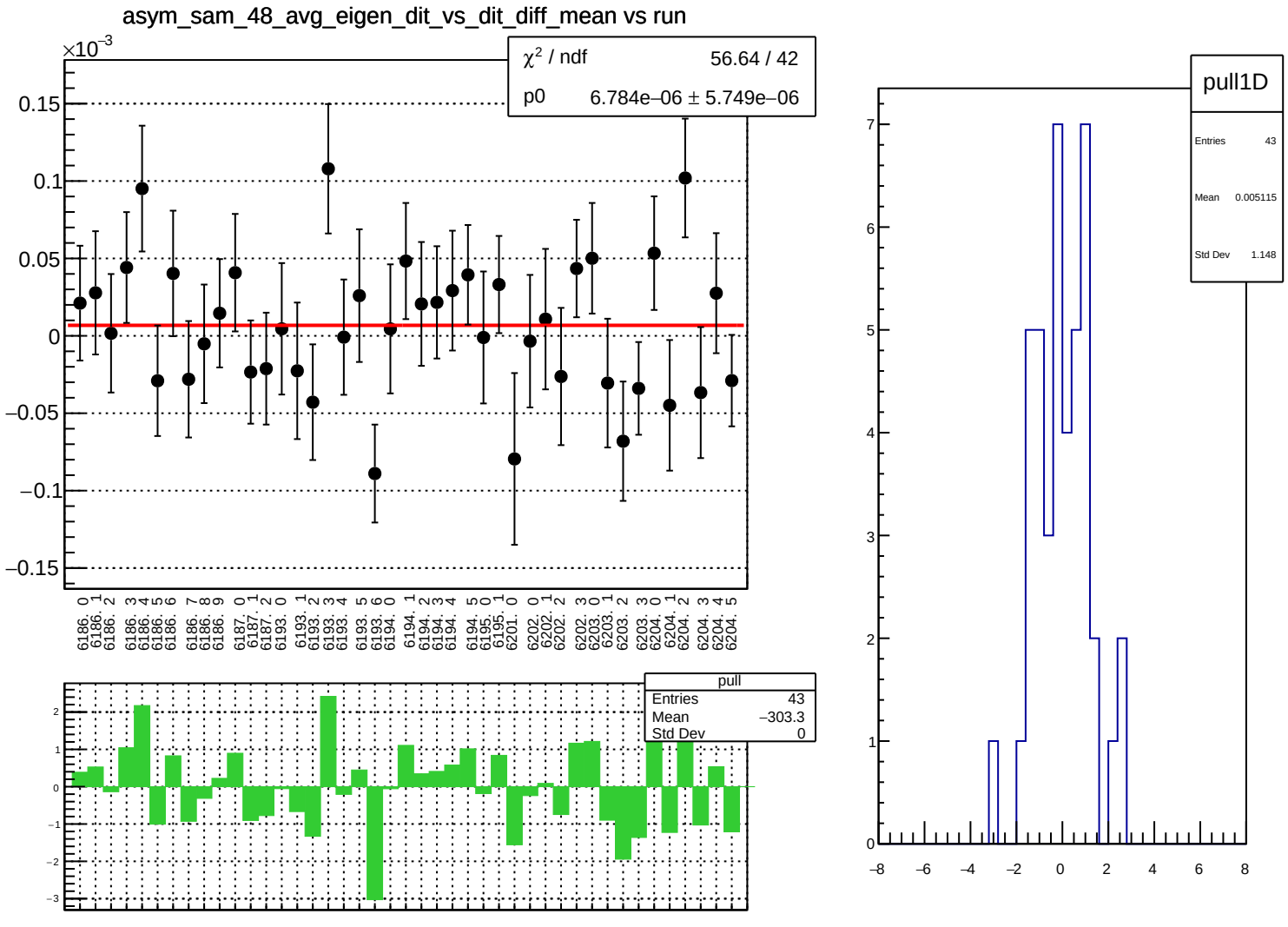

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 47.55 / 42
p0 −0.2151± 0.1019
pull
Entries 43
Mean 63.65
Std Dev 0

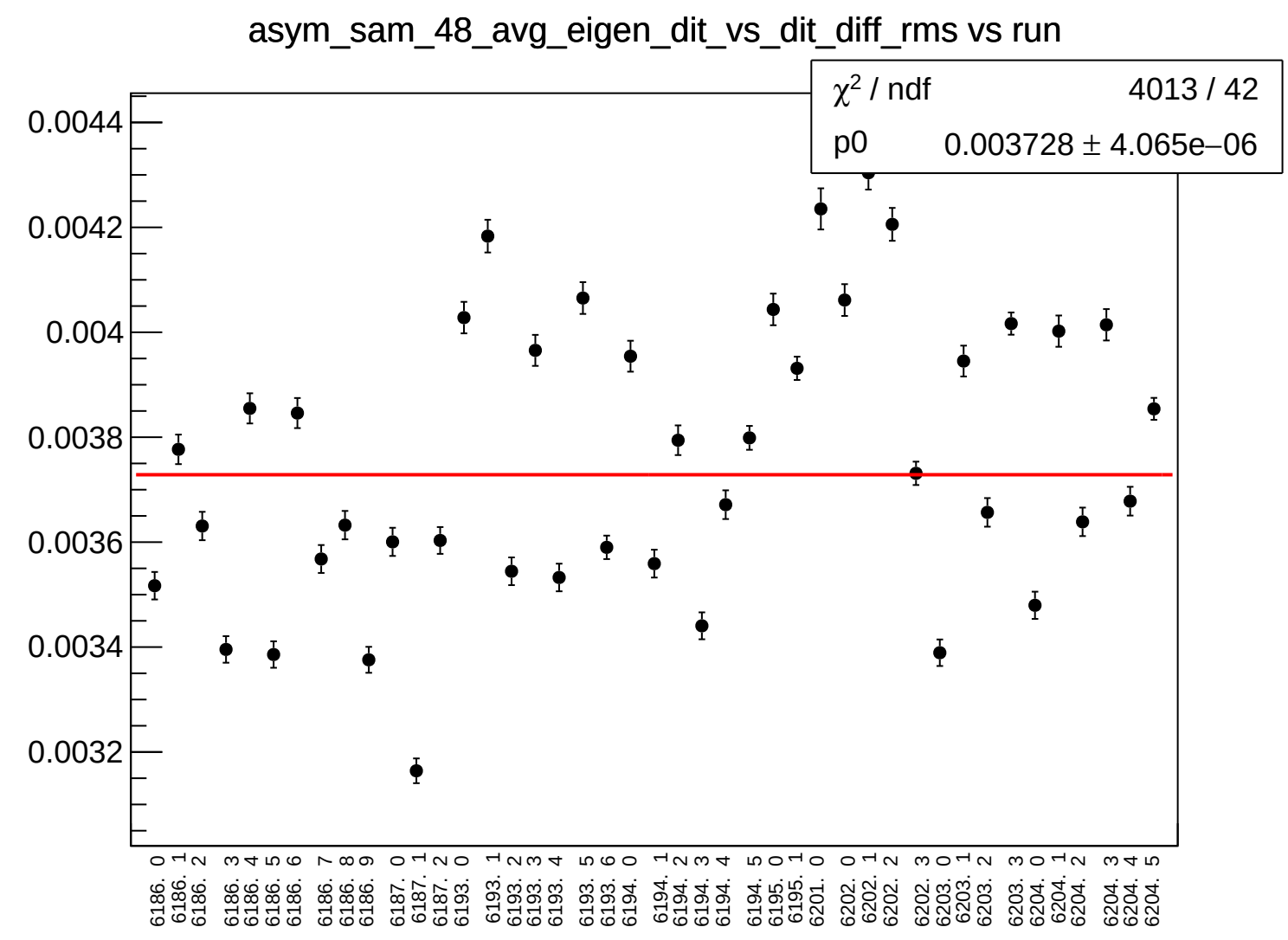

pull1D
Entries 43
Mean −0.02724
Std Dev 1.051

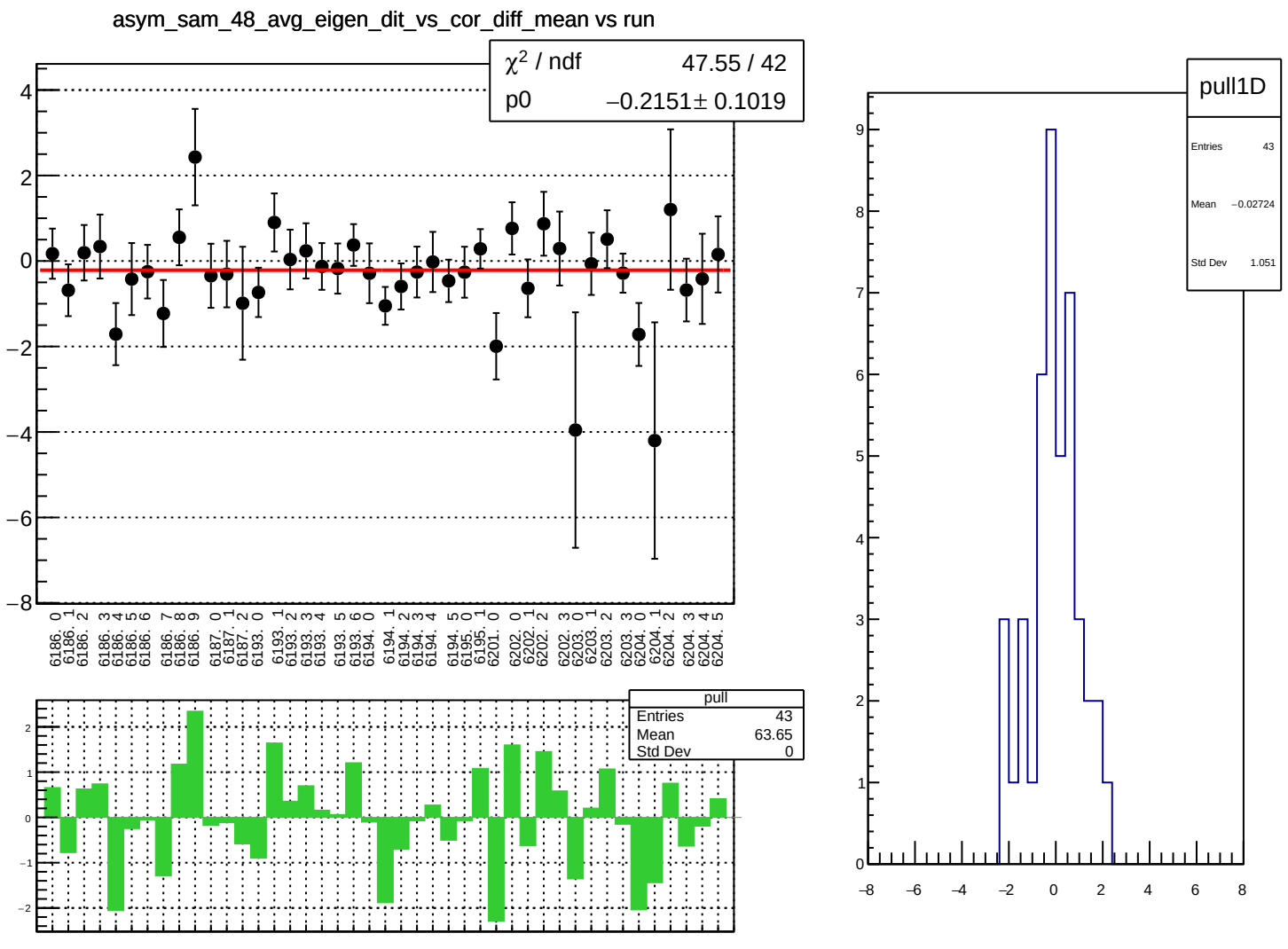

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.294e+04 / 42
p0 63.71 ± 0.07203
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

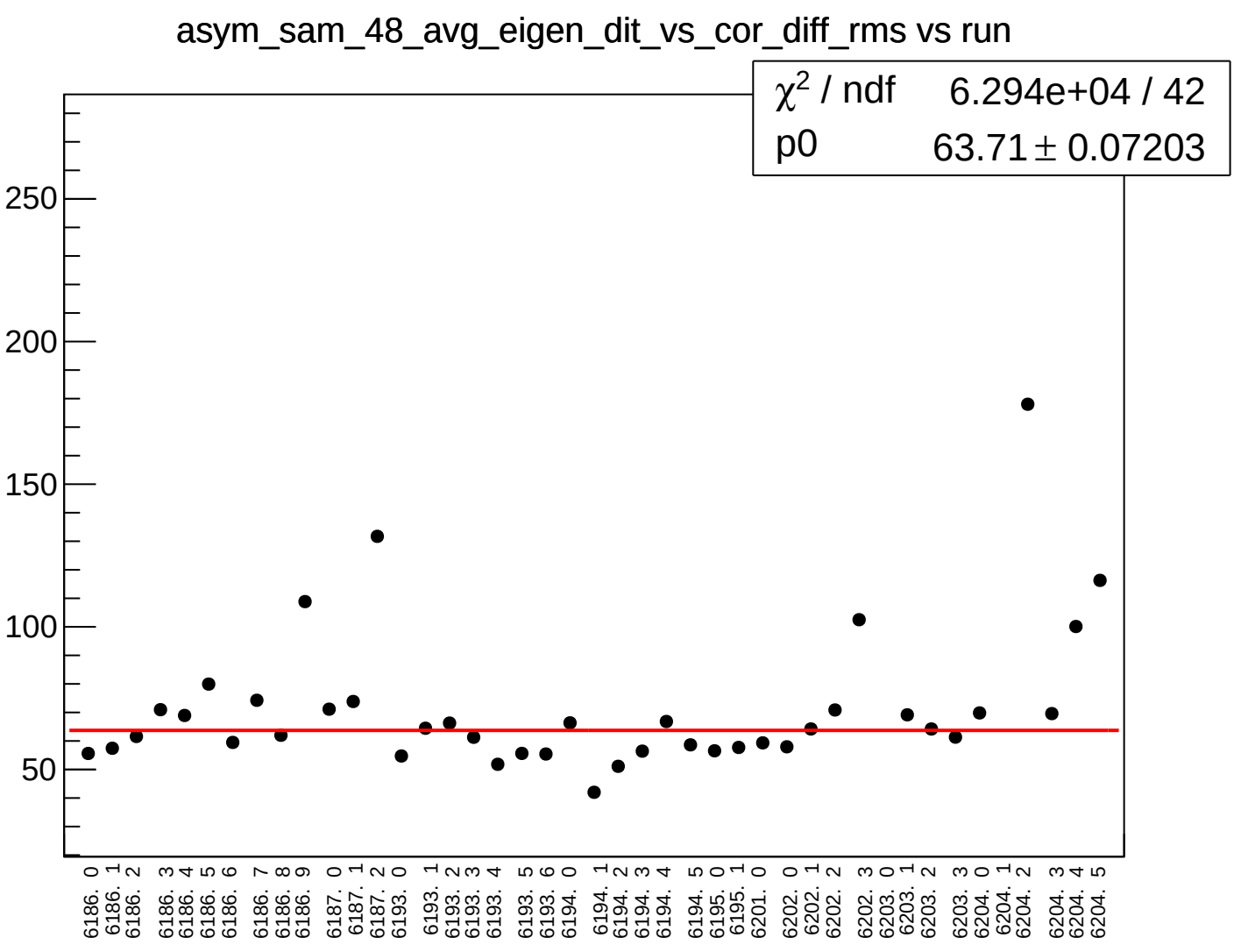

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.55 / 42
p0 −0.2151± 0.1019
pull
Entries 43
Mean 63.65
Std Dev 0
pull1D
Entries 43
Mean −0.02724
Std Dev 1.051

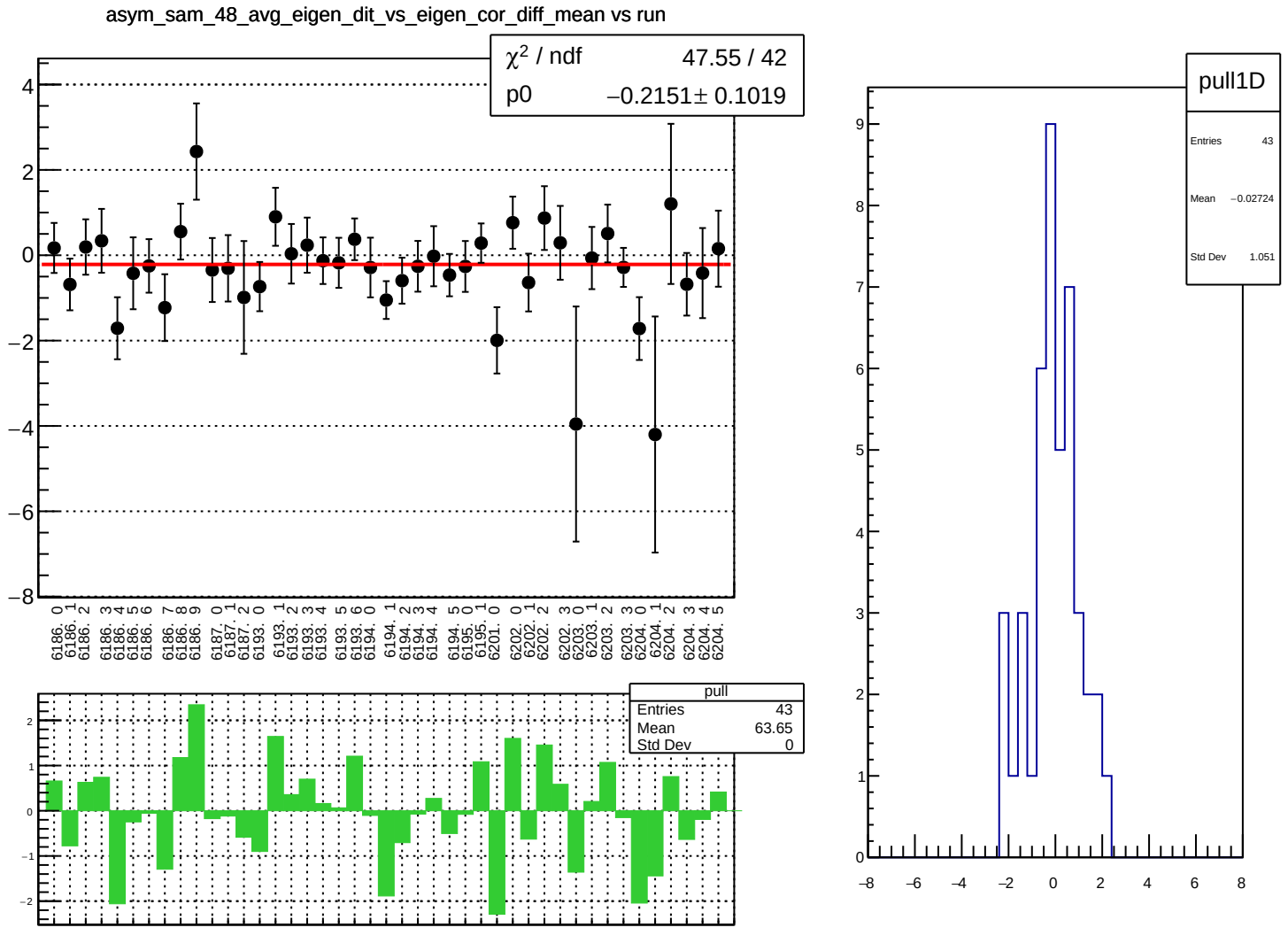

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.294e+04 / 42
p0 63.71 ± 0.07203
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

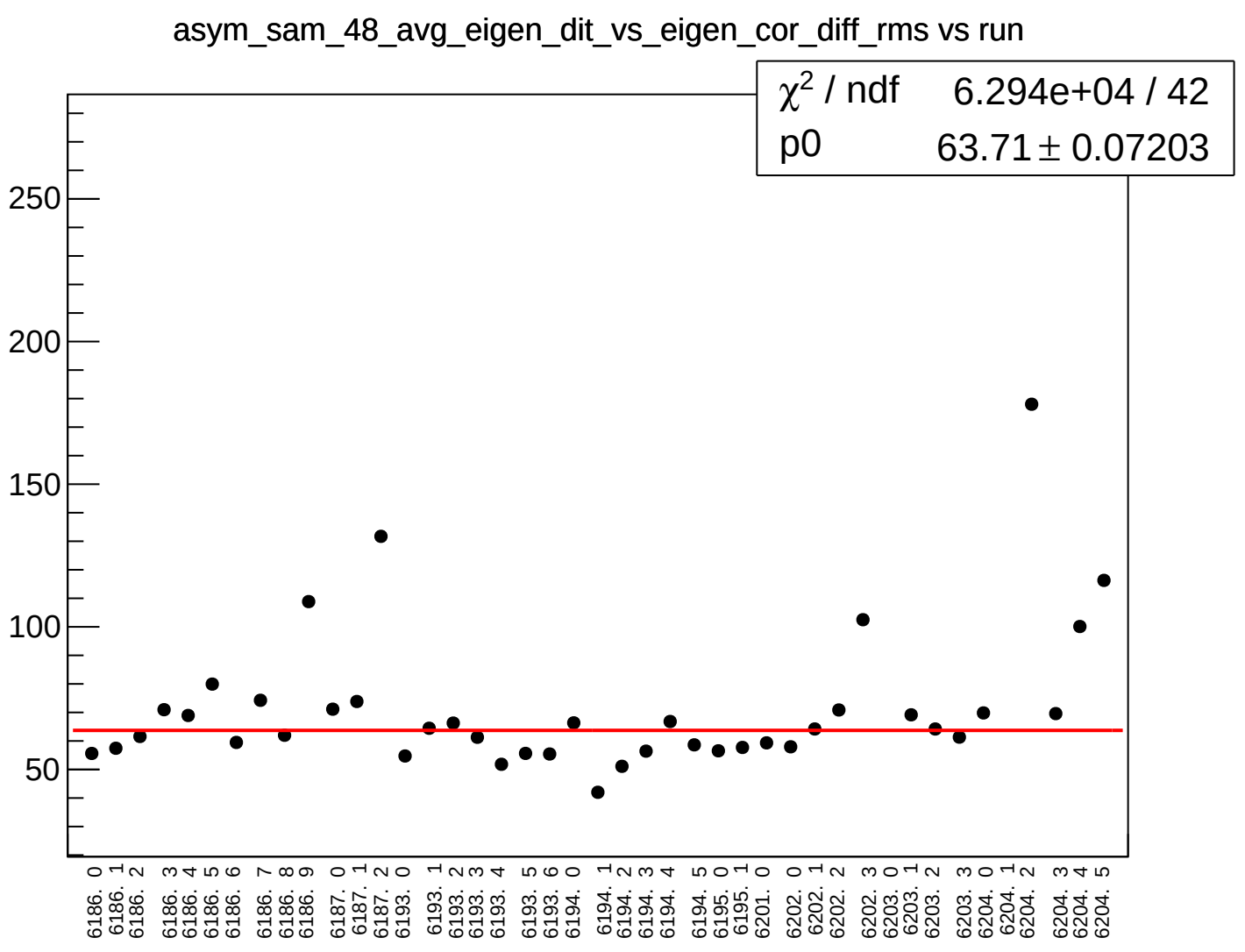

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 56.64 / 42
p0 6.784e−06 ± 5.749e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −303.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.005115
Std Dev 1.148
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

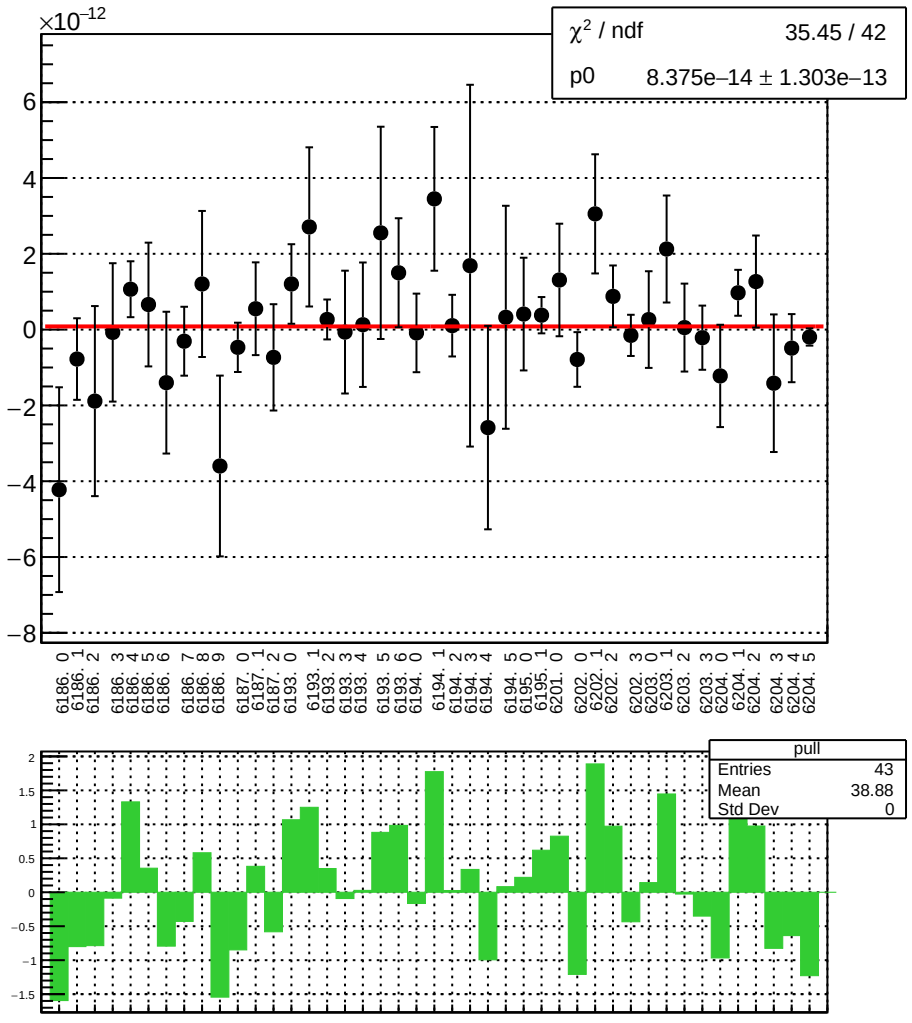

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4013 / 42
p0 0.003728 ± 4.065e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

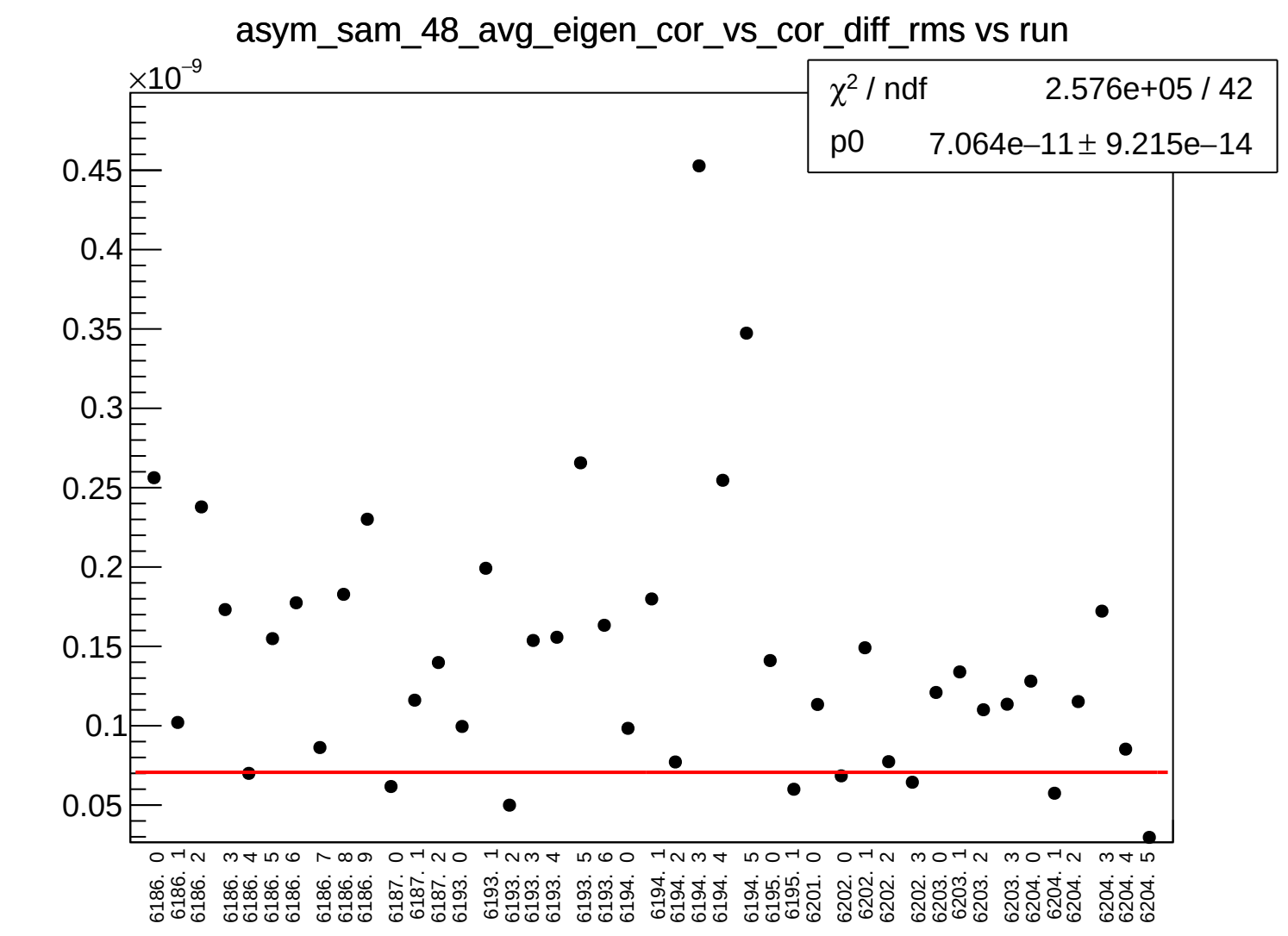

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 47.55 / 42
p0 −0.2151± 0.1019
pull
Entries 43
Mean 63.65
Std Dev 0
pull1D
Entries 43
Mean −0.02724
Std Dev 1.051

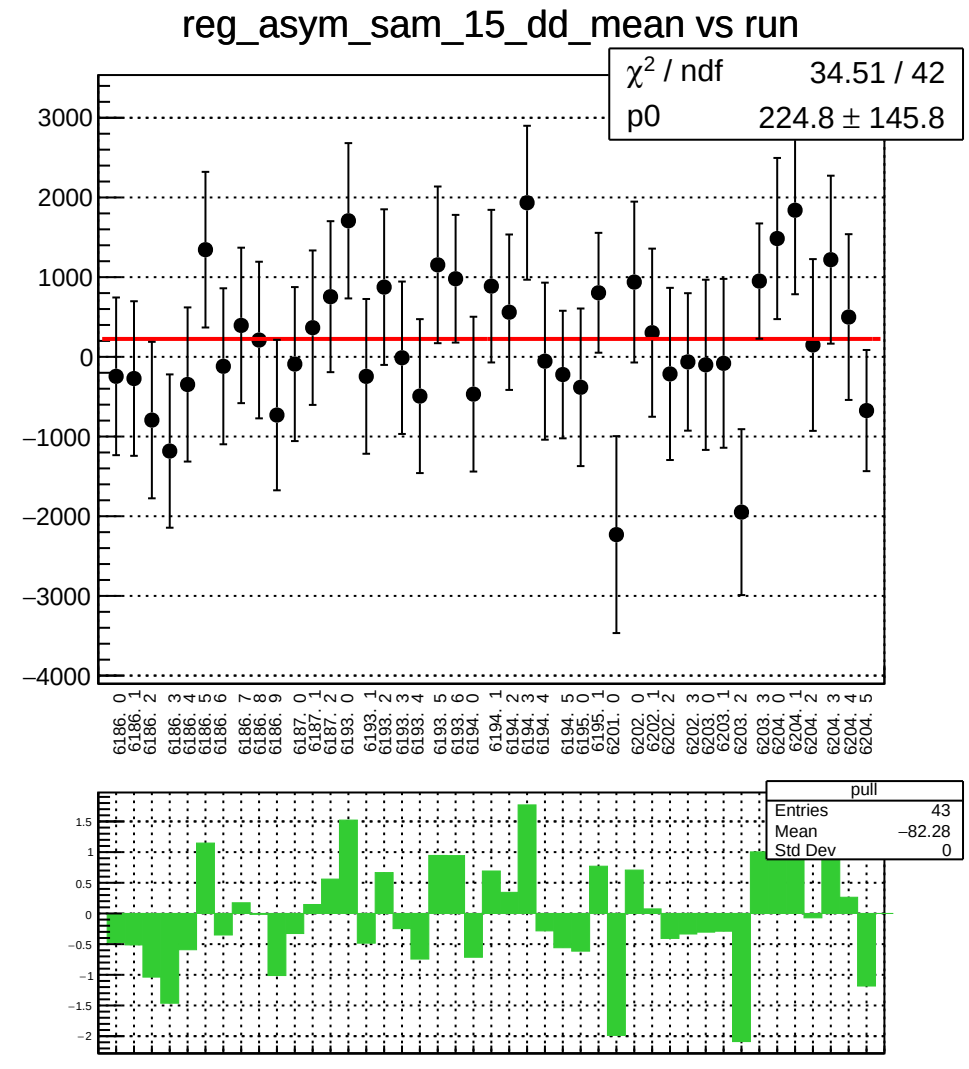

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.294e+04 / 42
p0 63.71 ± 0.07203
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

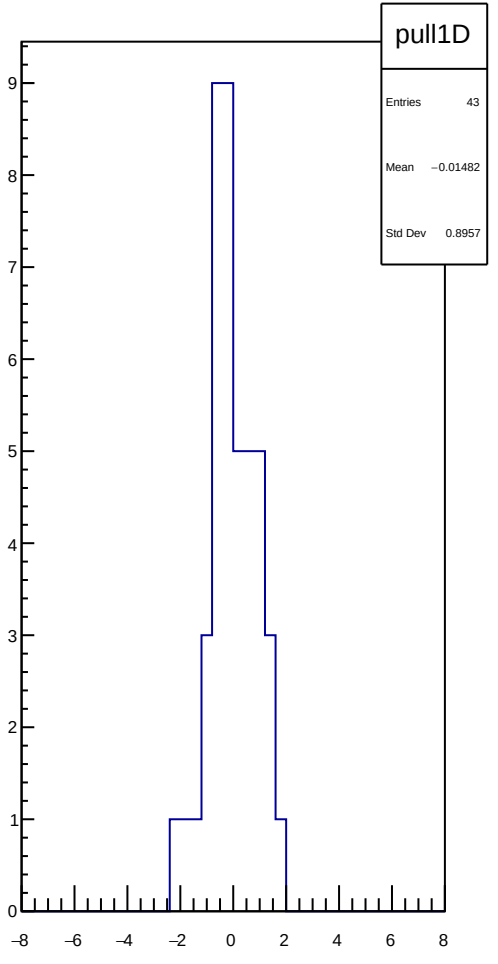

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 47.55 / 42
p0 −0.2151± 0.1019
pull
Entries 43
Mean 63.65
Std Dev 0
pull1D
Entries 43
Mean −0.02724
Std Dev 1.051

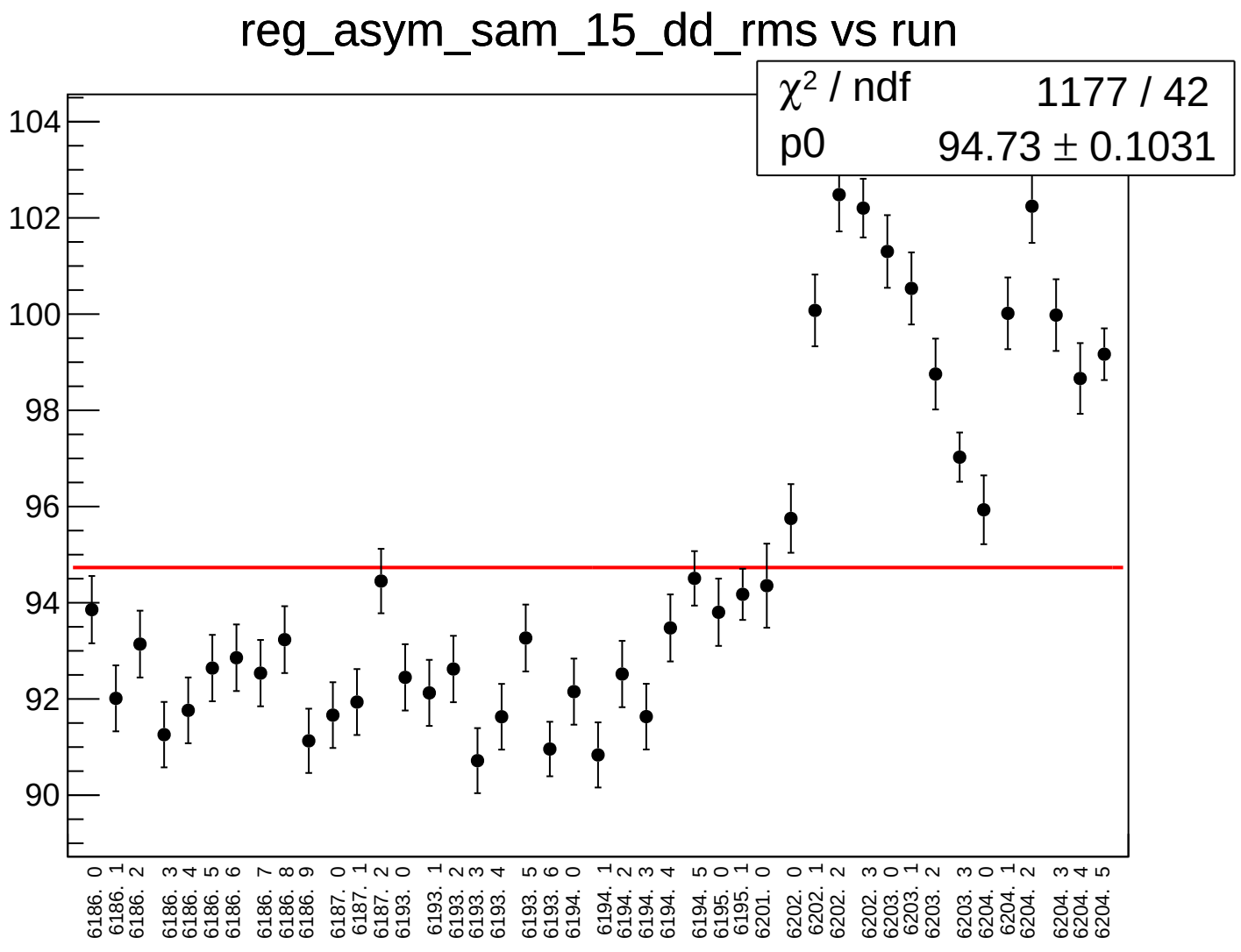

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.294e+04 / 42
p0 63.71 ± 0.07203
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

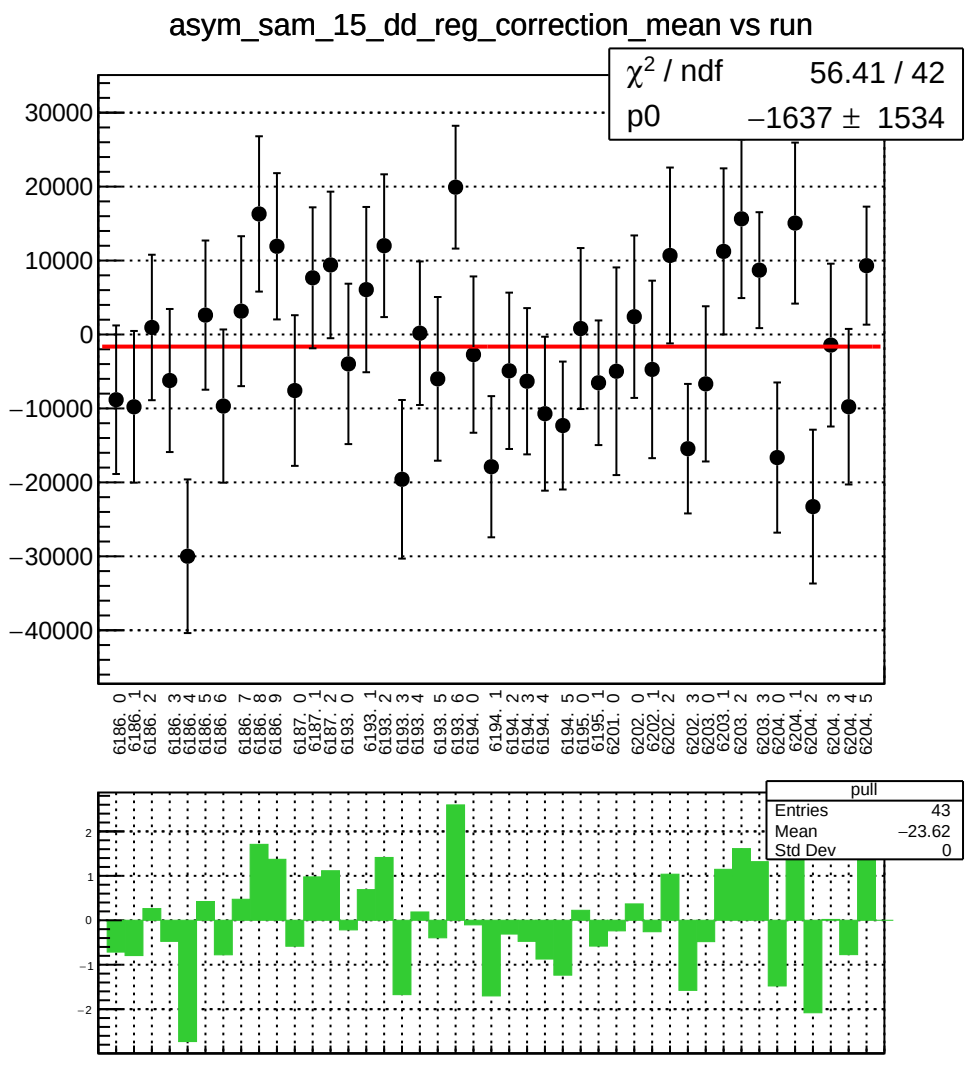

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 35.45 / 42
p0 8.375e−14 ± 1.303e−13
6
4
2
0
−2
−4
−6
−8
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 38.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.08345
Std Dev 0.9042
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

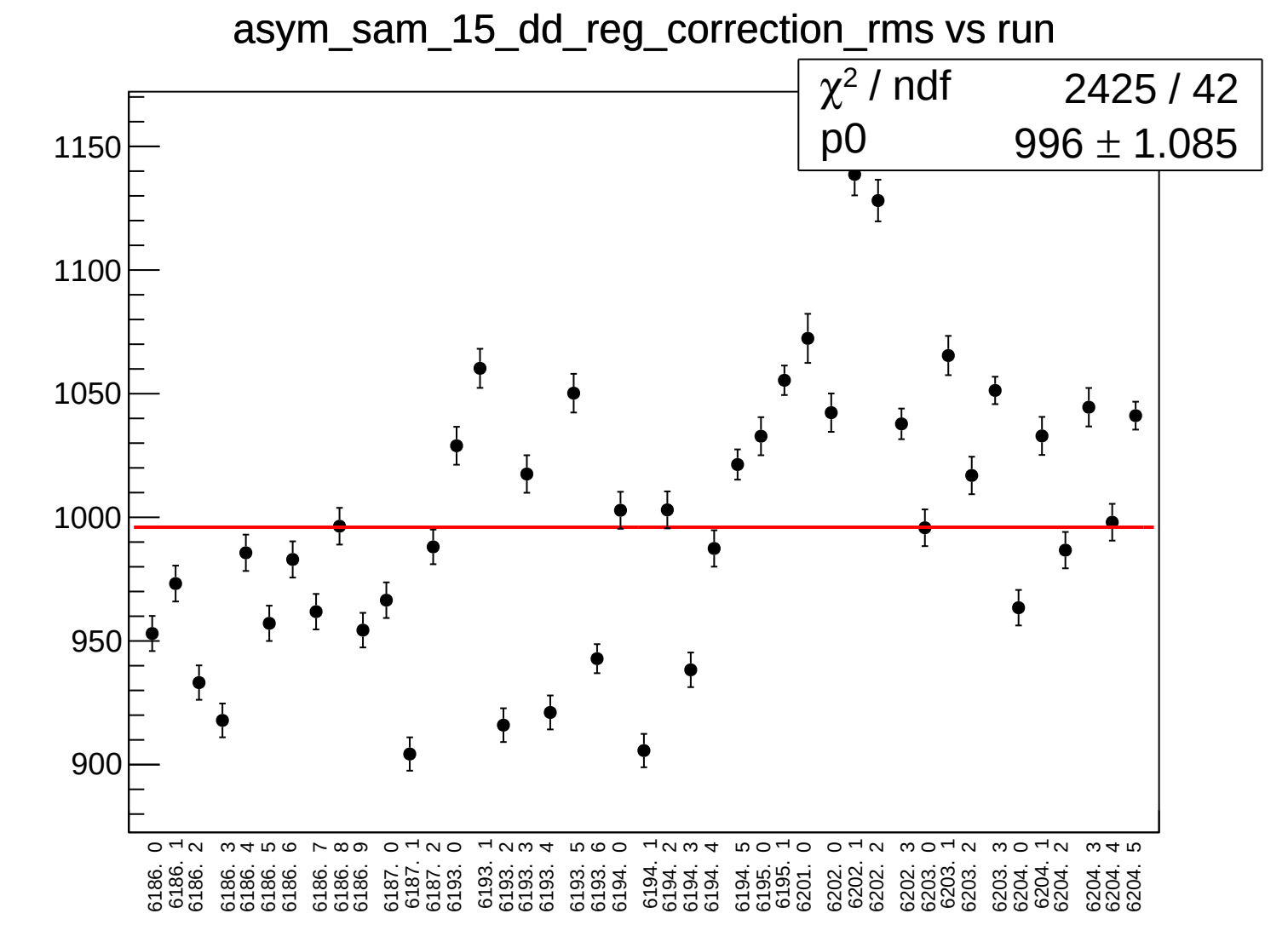

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.576e+05 / 42
p0 7.064e−11 ± 9.215e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

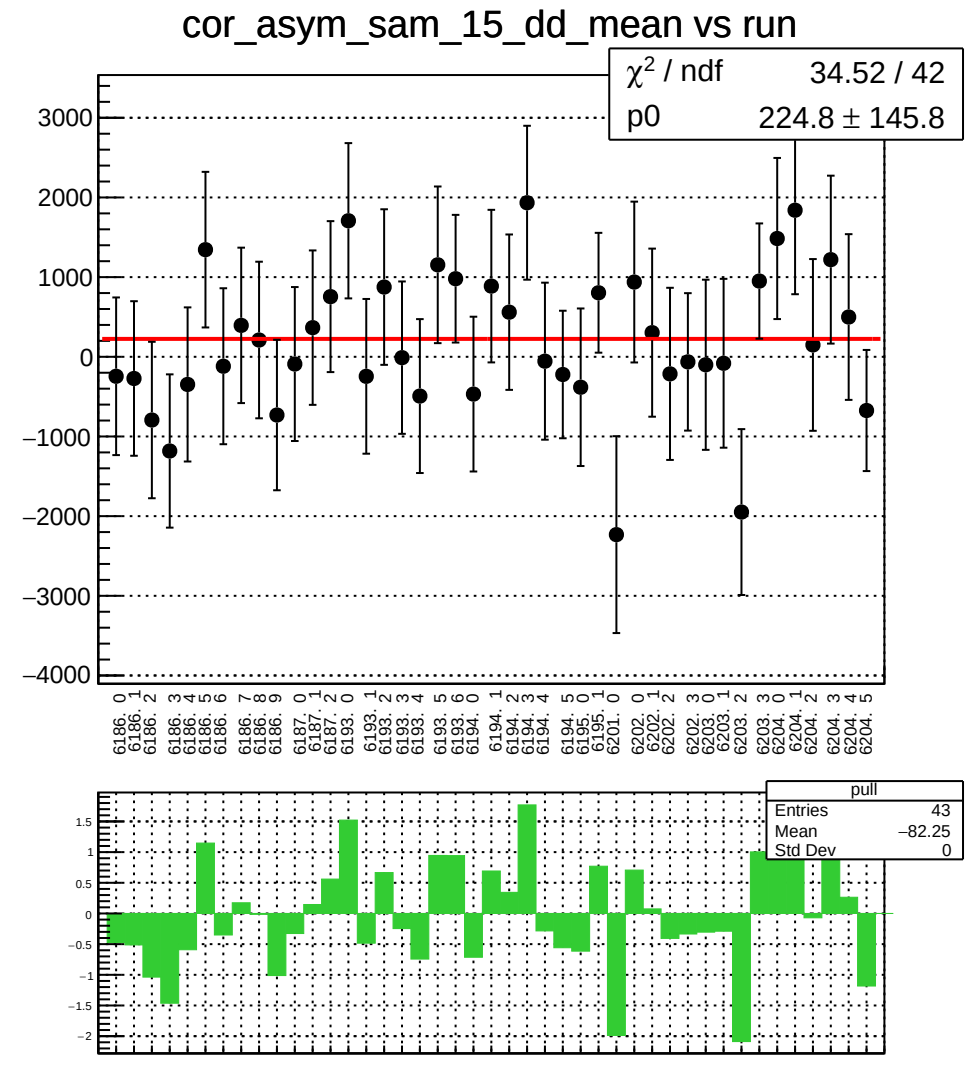

reg_asym_sam_15_dd_mean vs run
χ² / ndf 34.51 / 42
p0 224.8 ± 145.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −82.28
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

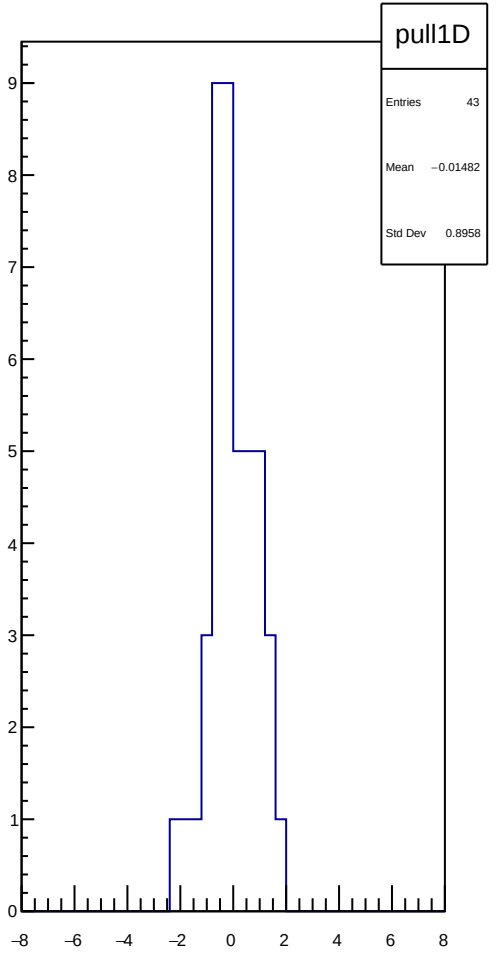

pull1D
Entries 43
Mean −0.01482
Std Dev 0.8957
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

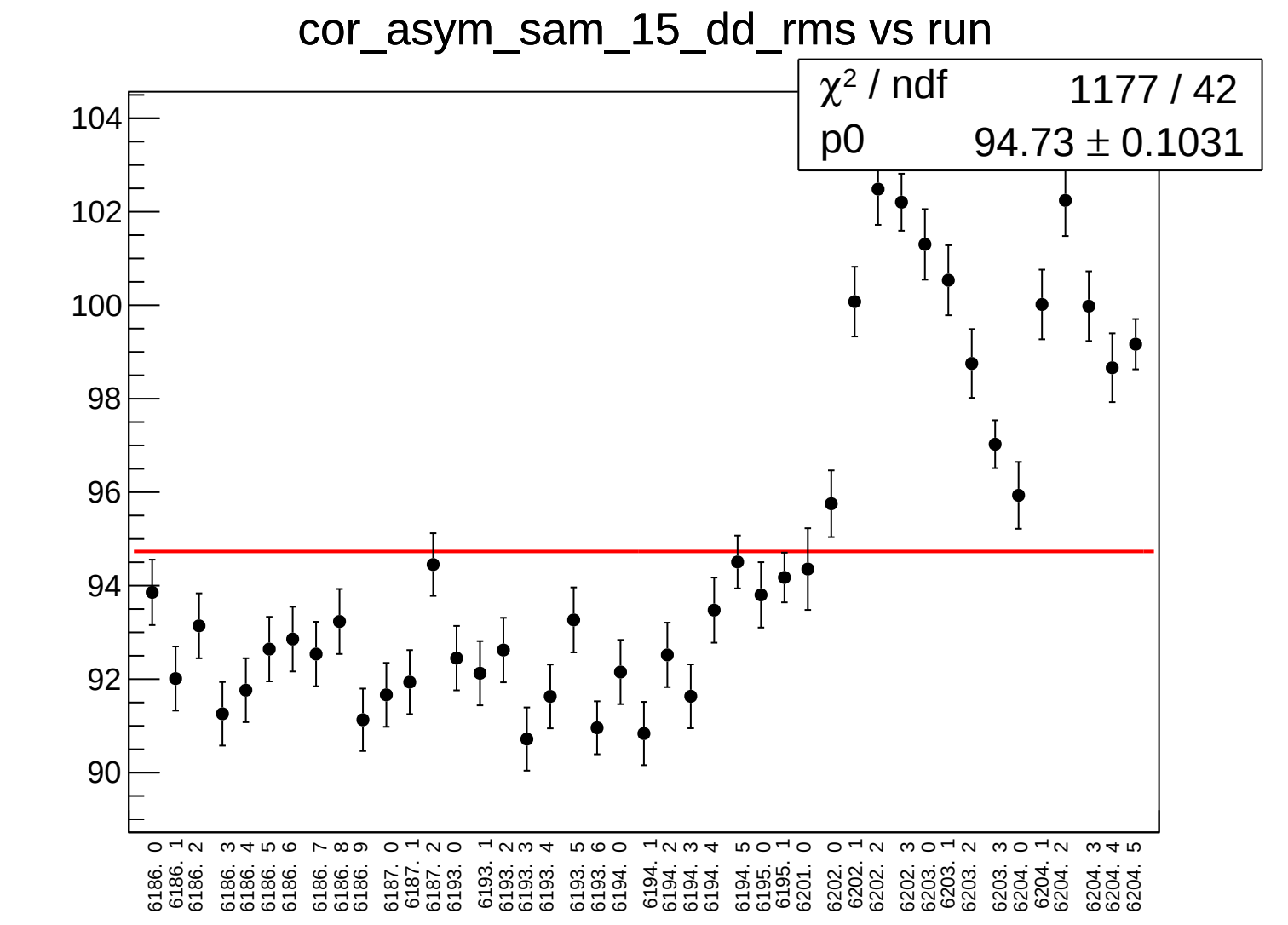

reg_asym_sam_15_dd_rms vs run
χ² / ndf 1177 / 42
p0 94.73 ± 0.1031
104
102
100
98
96
94
92
90
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

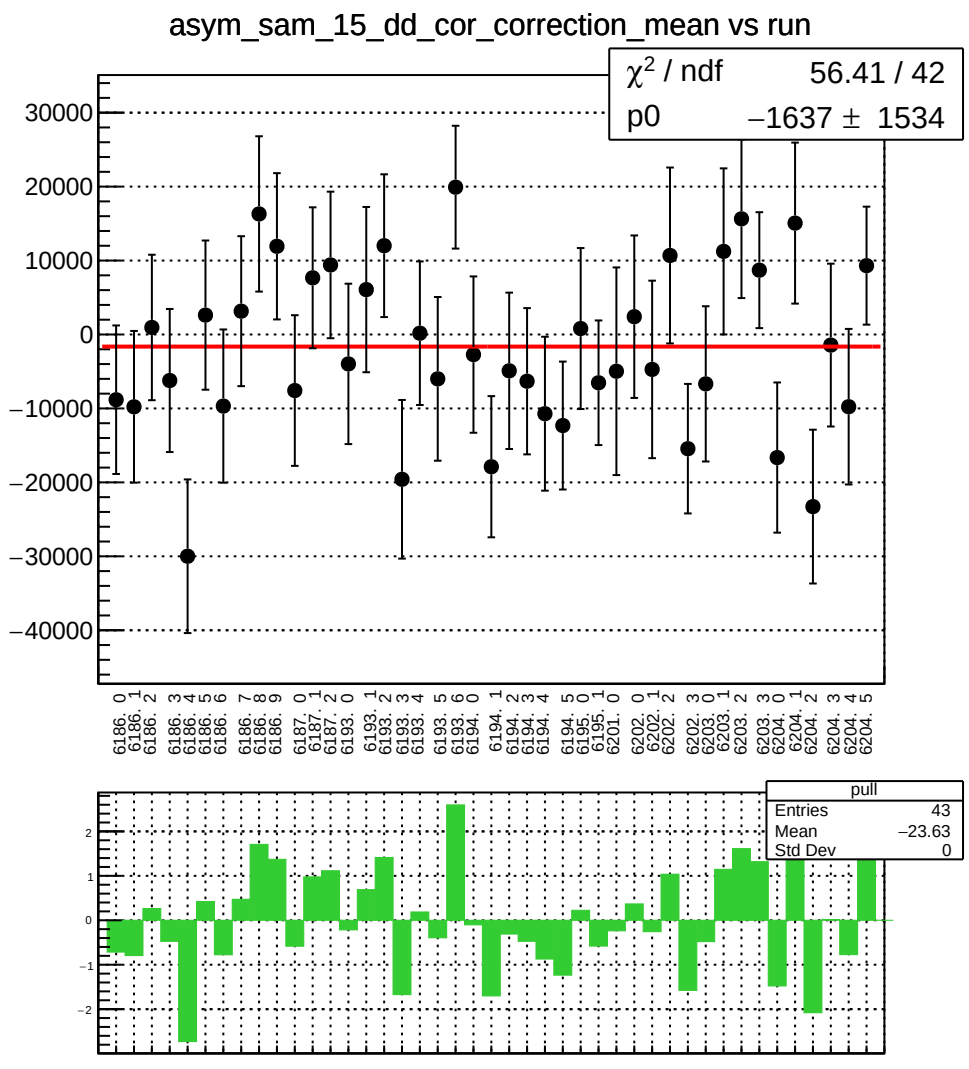

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 56.41 / 42
p0 −1637 ± 1534
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −23.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01556
Std Dev 1.145
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

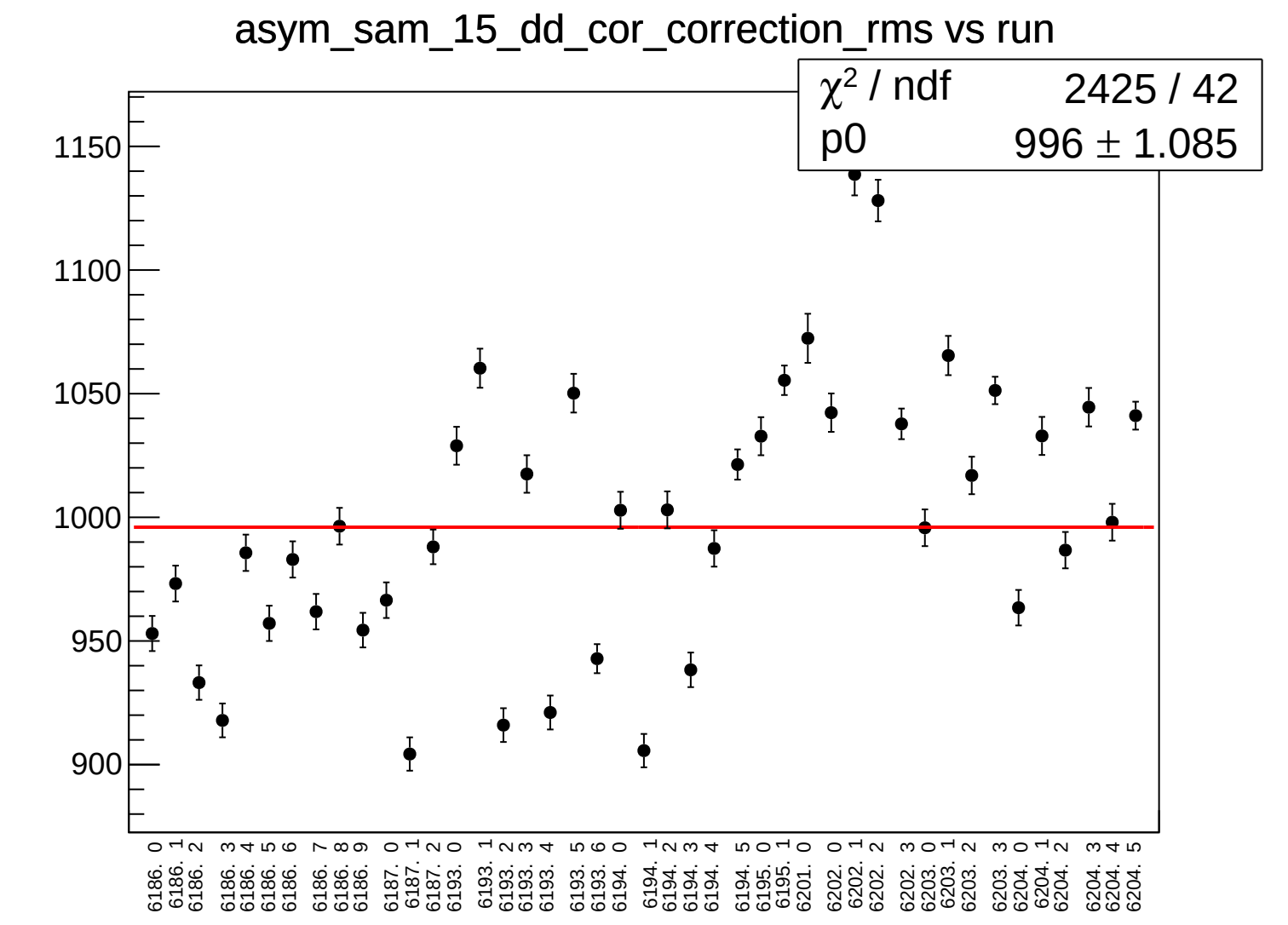

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2425 / 42
p0 996 ± 1.085
1150
1100
1050
1000
950
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

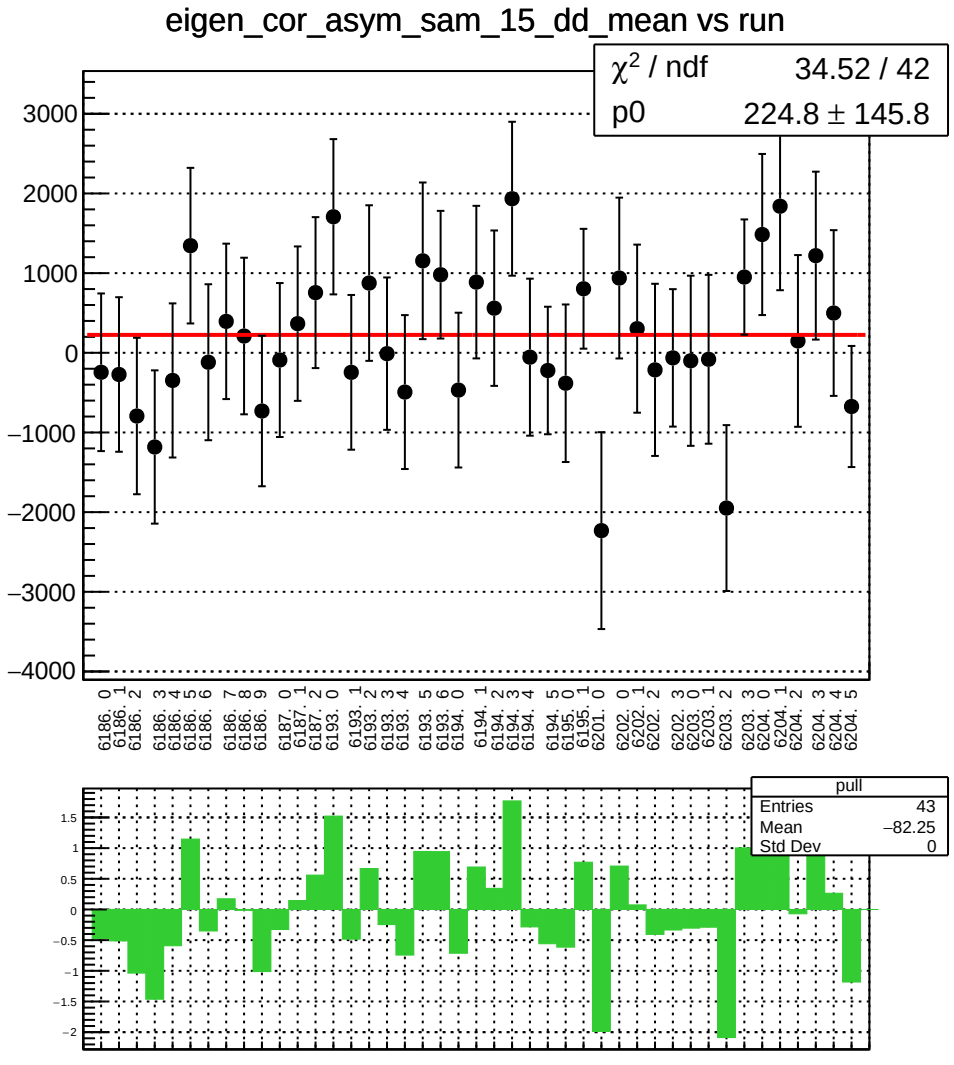

cor_asym_sam_15_dd_mean vs run
χ² / ndf 34.52 / 42
p0 224.8 ± 145.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −82.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

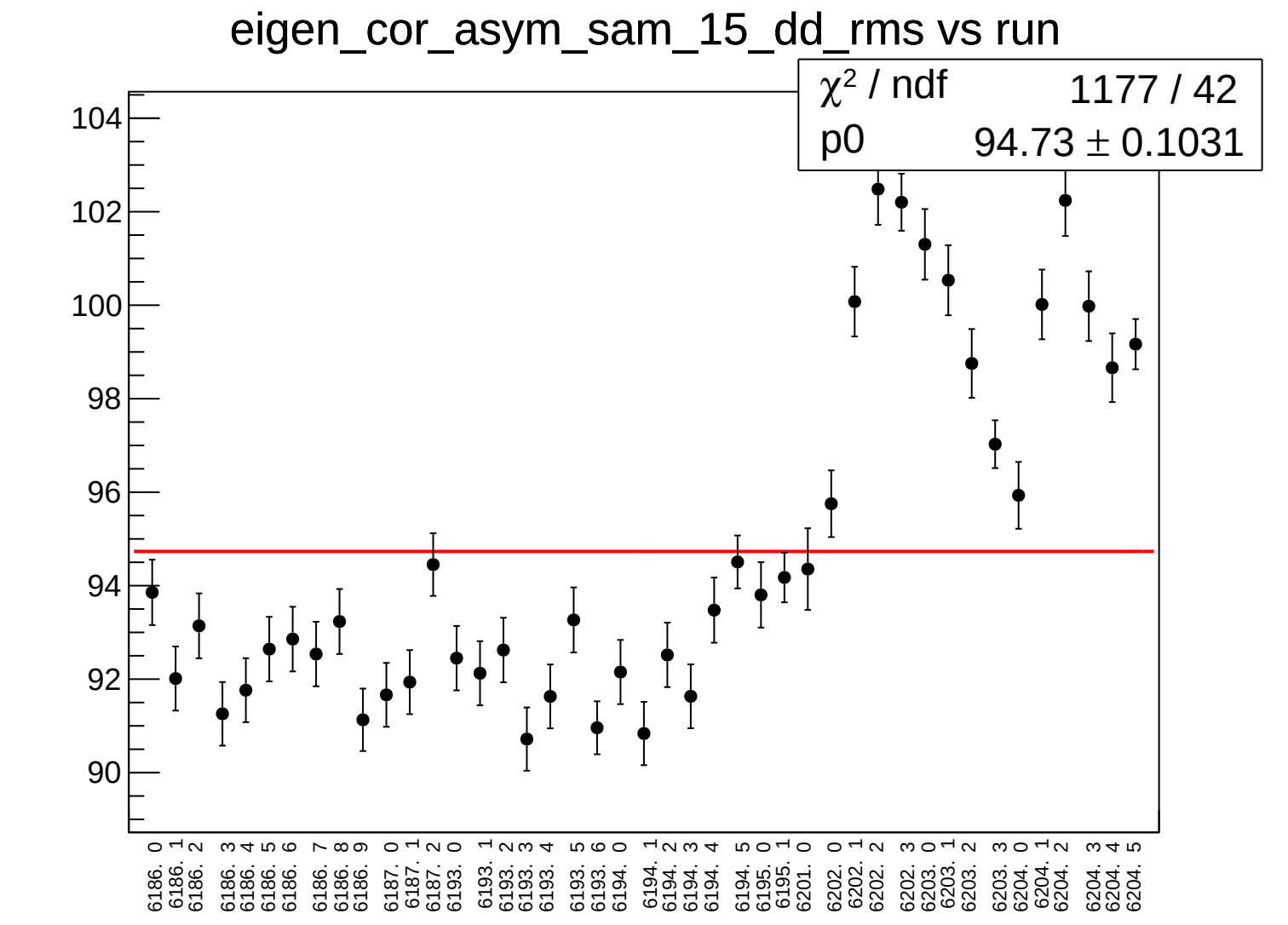

pull1D
Entries 43
Mean −0.01482
Std Dev 0.8958
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_dd_rms vs run
χ² / ndf 1177 / 42
p0 94.73 ± 0.1031
104
102
100
98
96
94
92
90
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 56.41 / 42
p0 −1637 ± 1534
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −23.63
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01556
Std Dev 1.145
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 2425 / 42
p0 996 ± 1.085
1150
1100
1050
1000
950
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 34.52 / 42
p0 224.8 ± 145.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −82.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.01482
Std Dev 0.8958
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 1177 / 42
p0 94.73 ± 0.1031
104
102
100
98
96
94
92
90
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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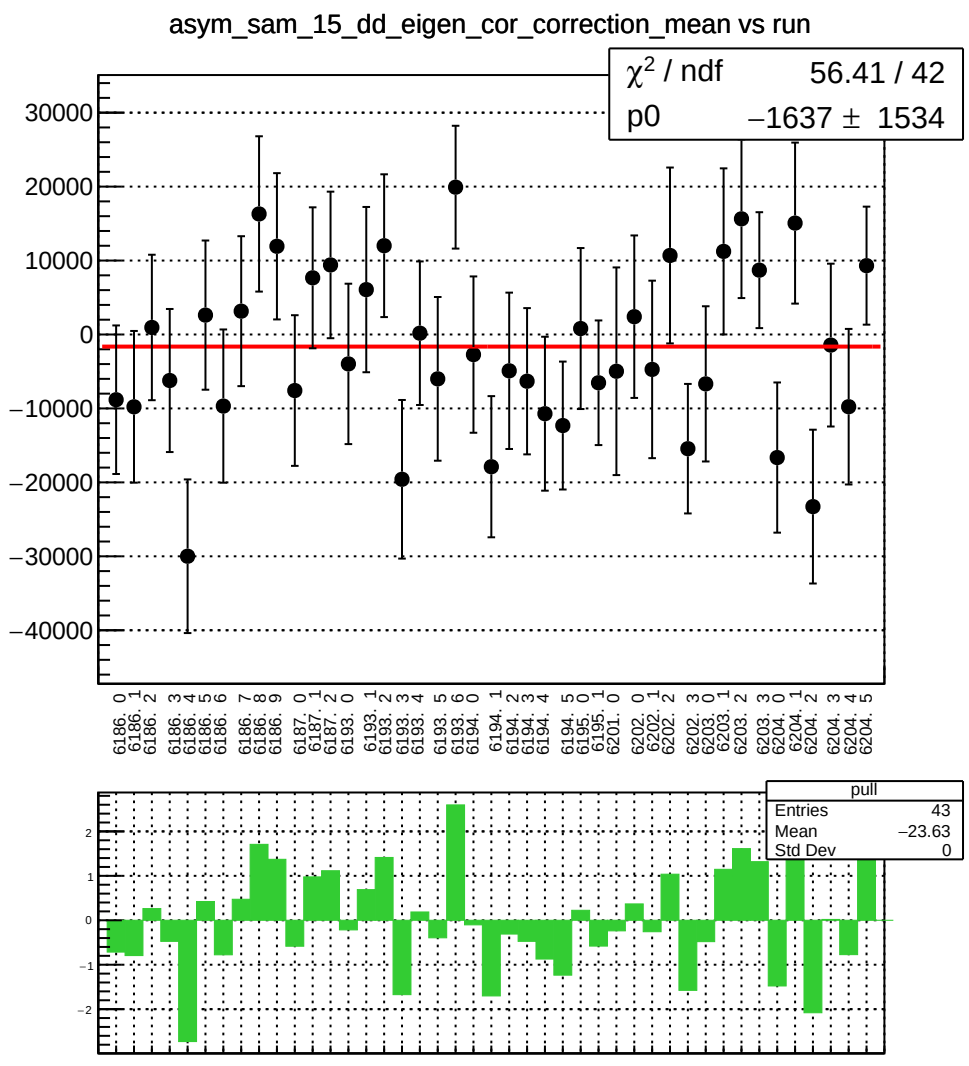
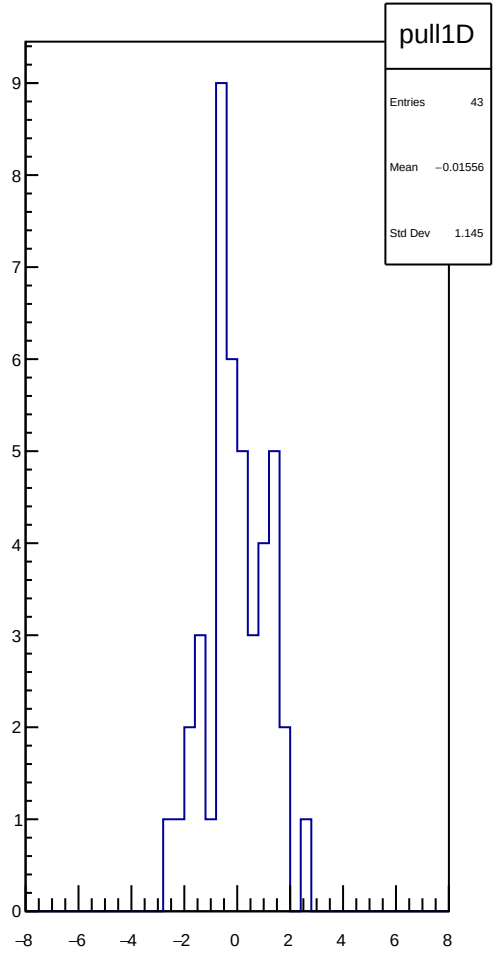
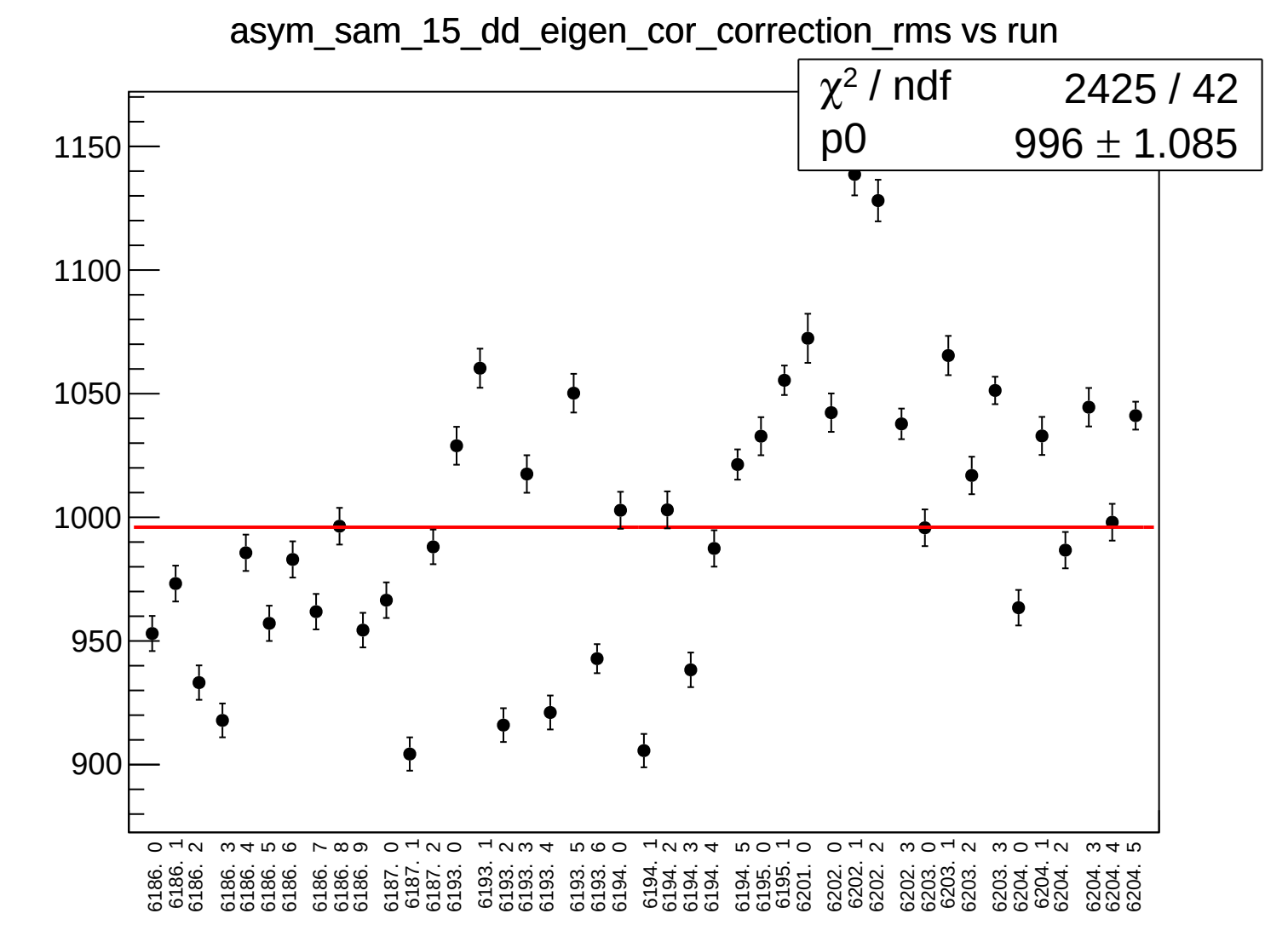
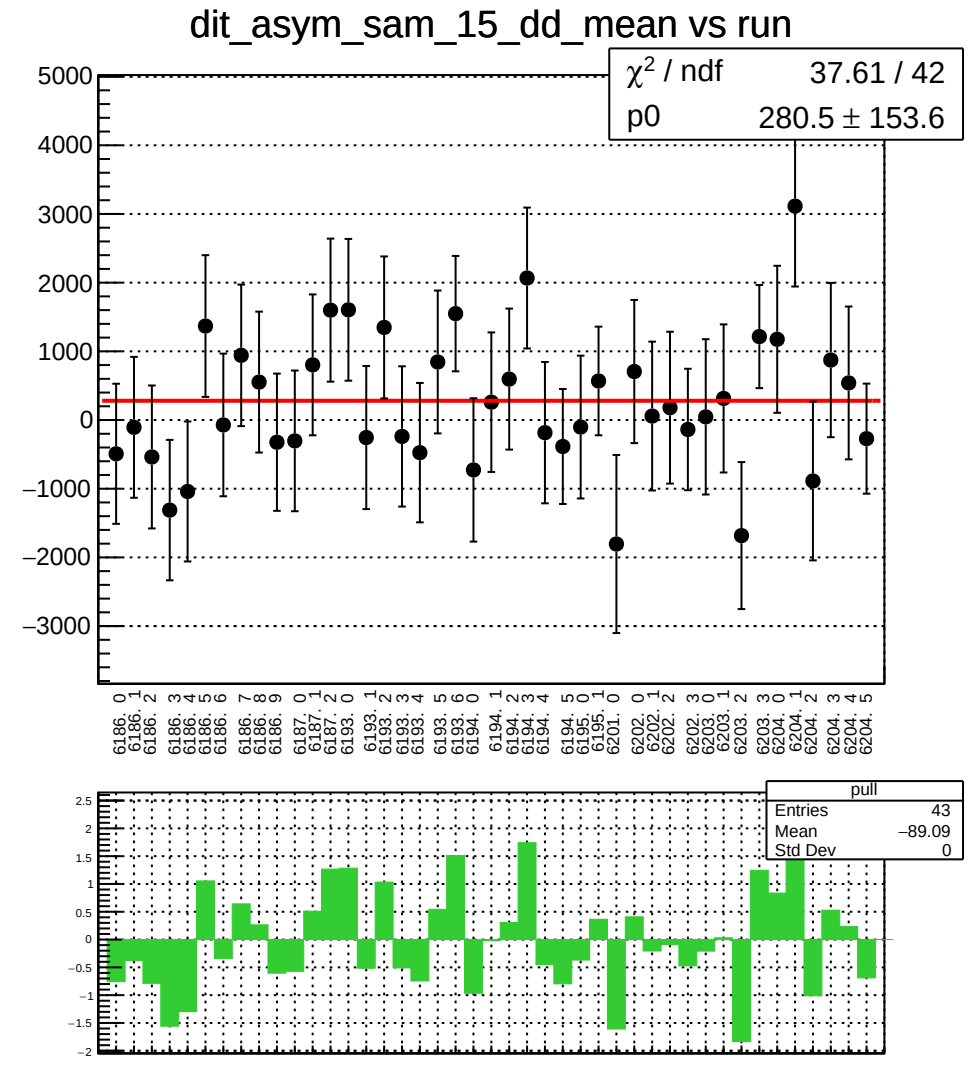
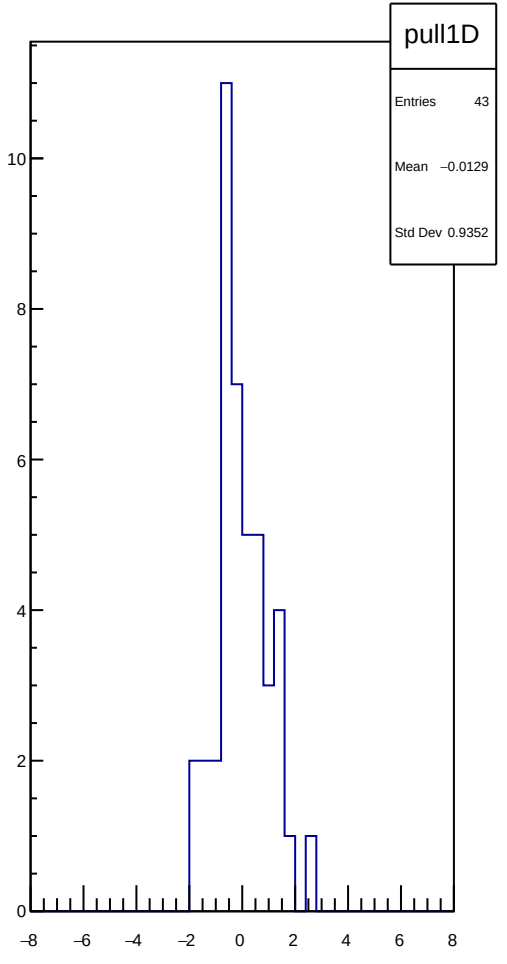
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

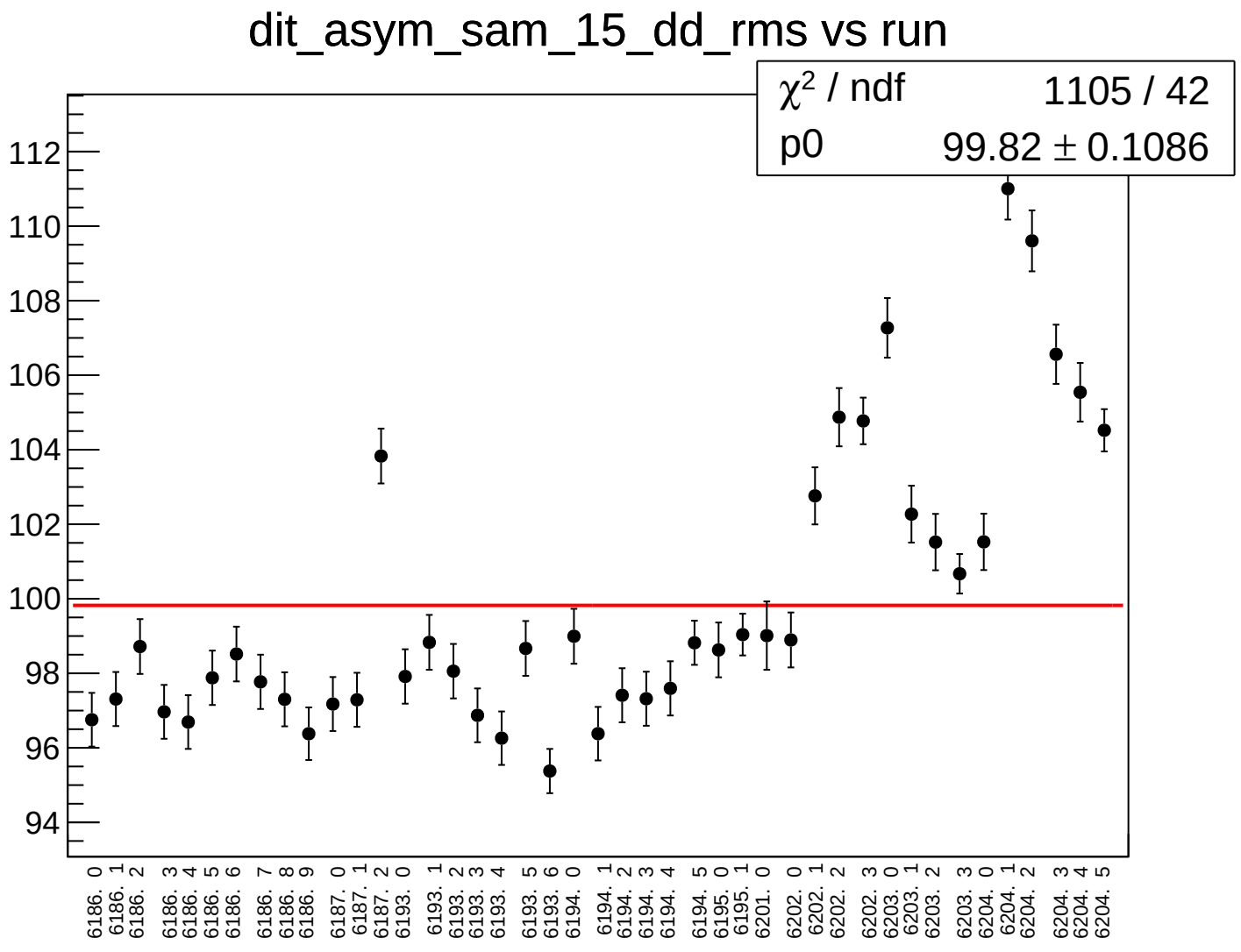

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 56.41 / 42
p0 −1637 ± 1534
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −23.63
Std Dev 0
2
1
0
−1
−2

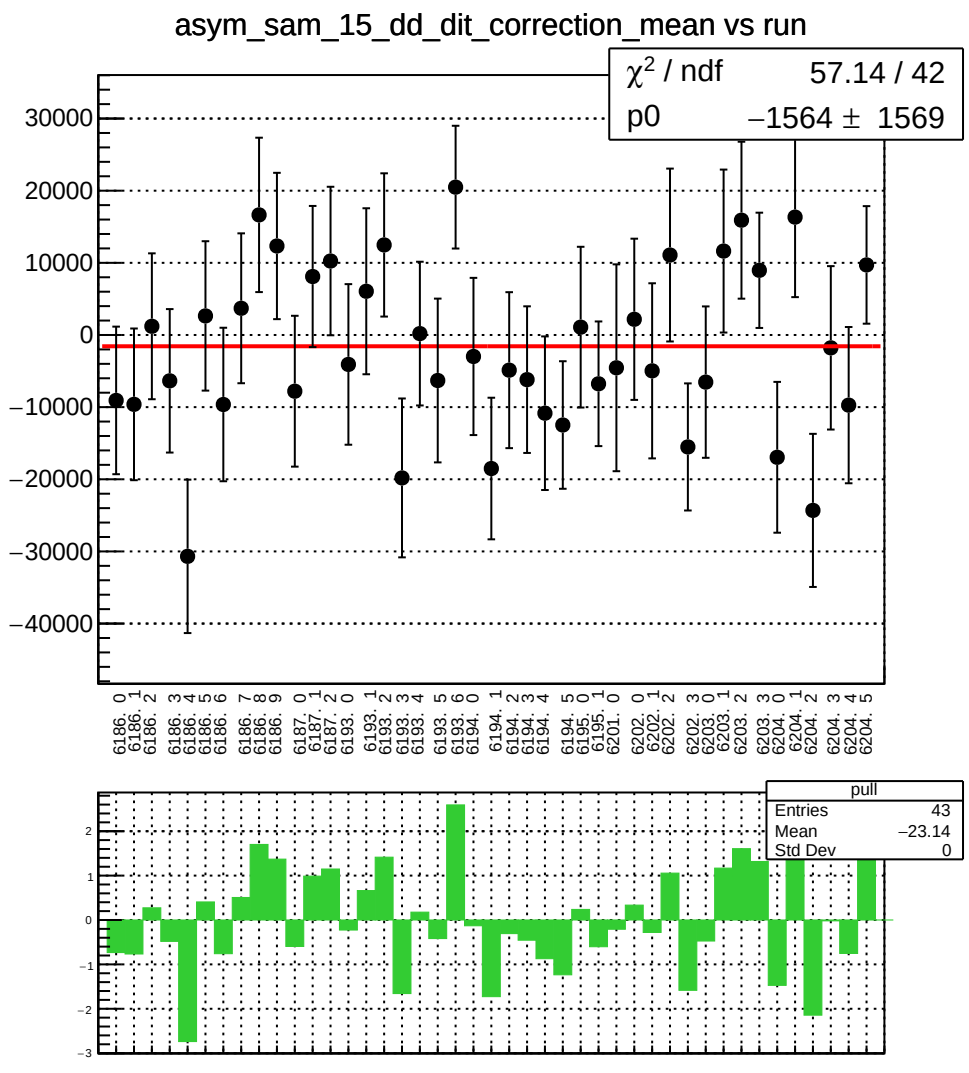

pull1D
Entries 43
Mean −0.01556
Std Dev 1.145
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

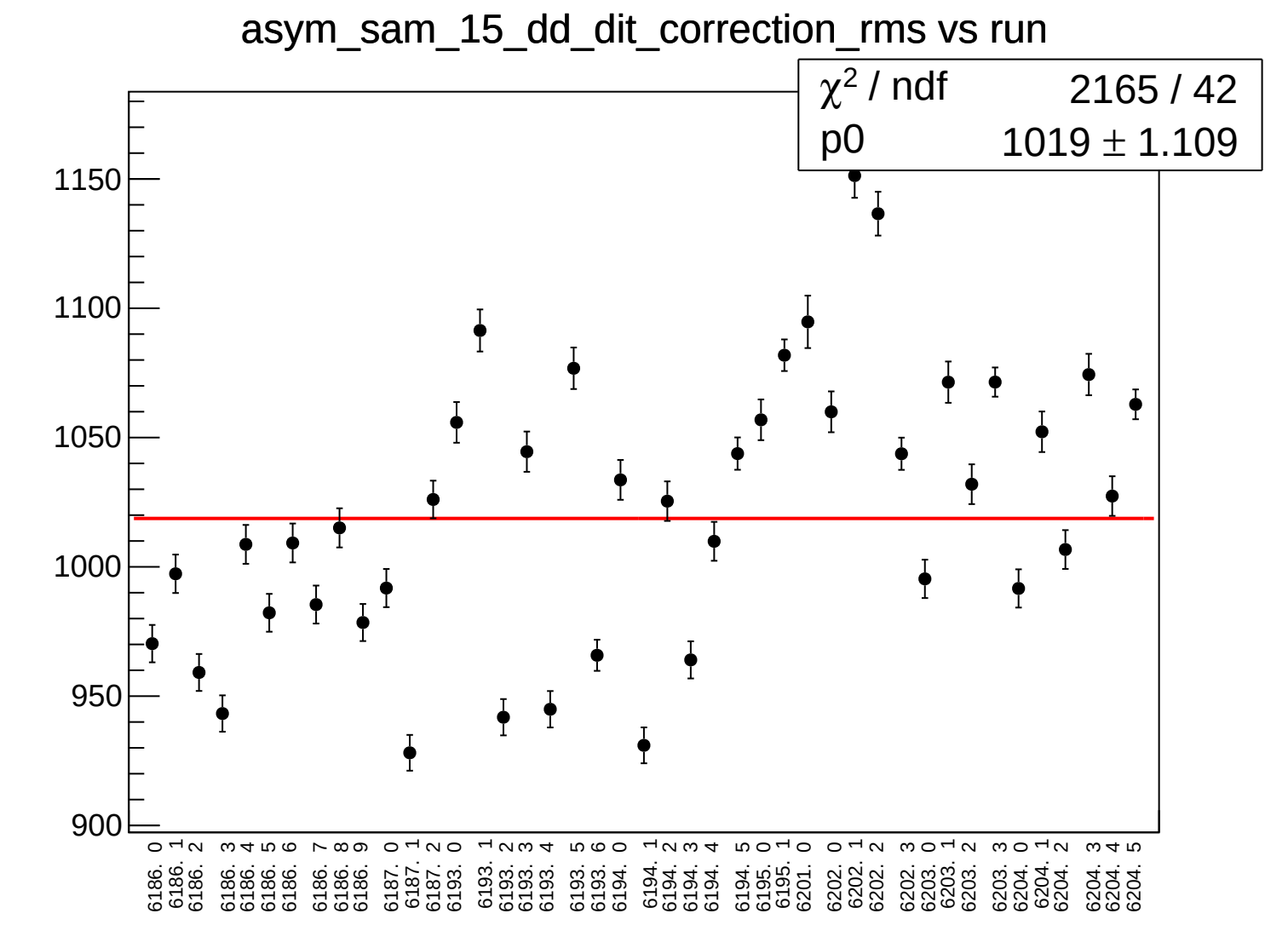

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2425 / 42
p0 996 ± 1.085
1150
1100
1050
1000
950
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

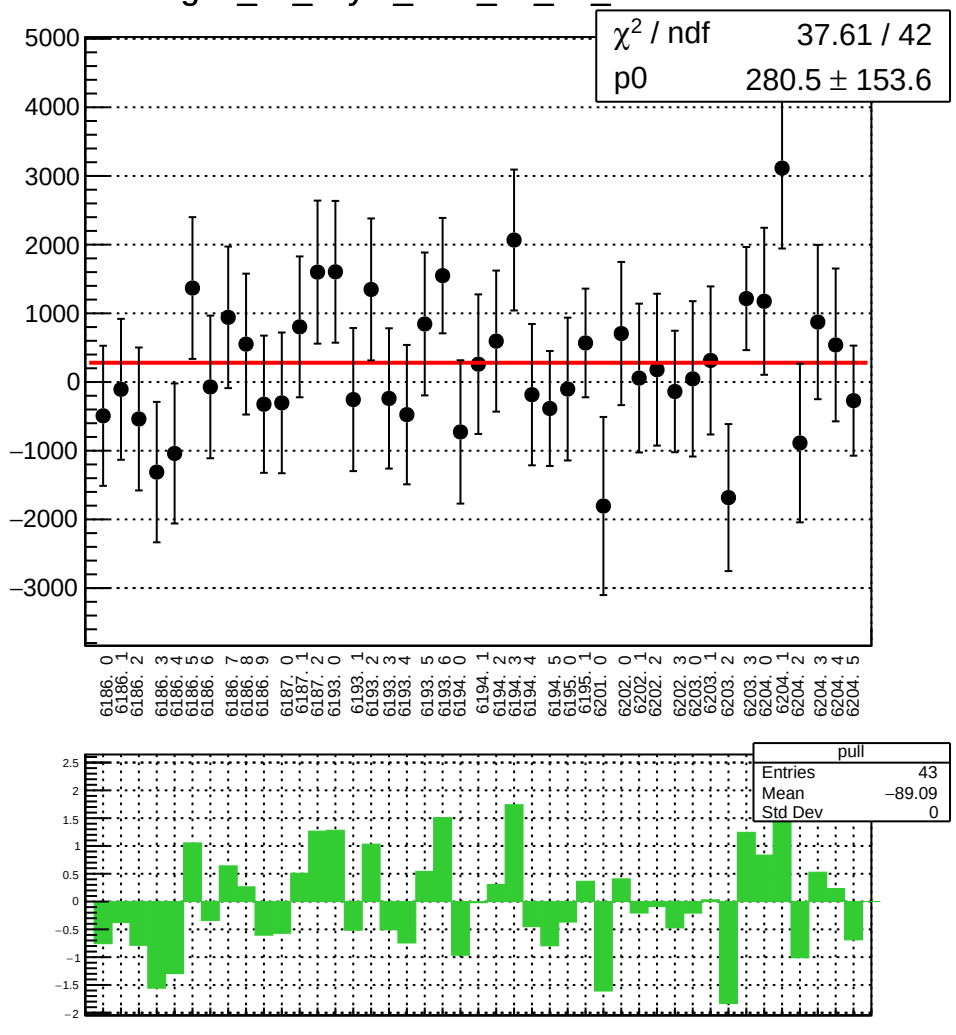

dit_asym_sam_15_dd_mean vs run
χ² / ndf 37.61 / 42
p0 280.5 ± 153.6
pull
Entries 43
Mean −89.09
Std Dev 0

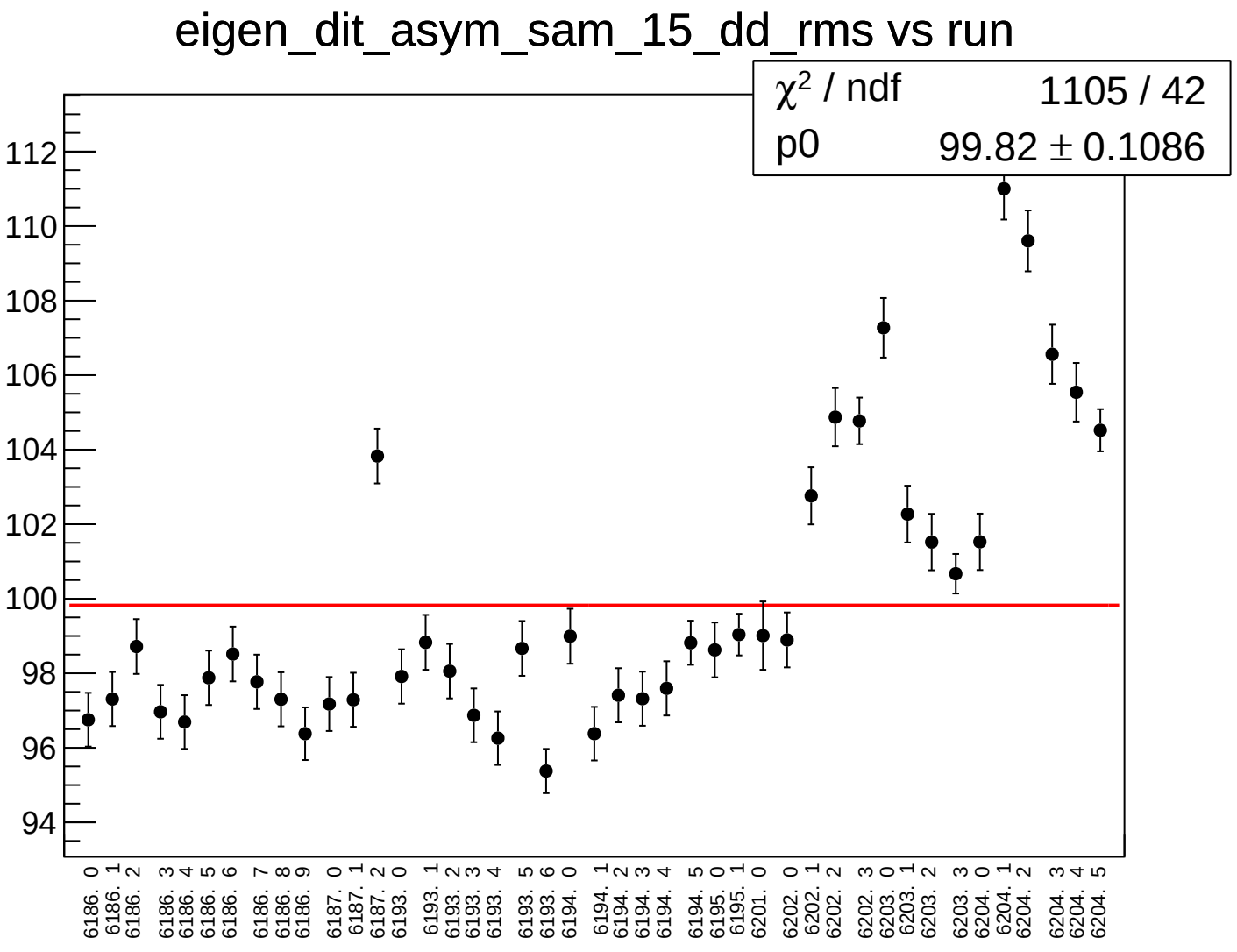

pull1D
Entries 43
Mean −0.0129
Std Dev 0.9352

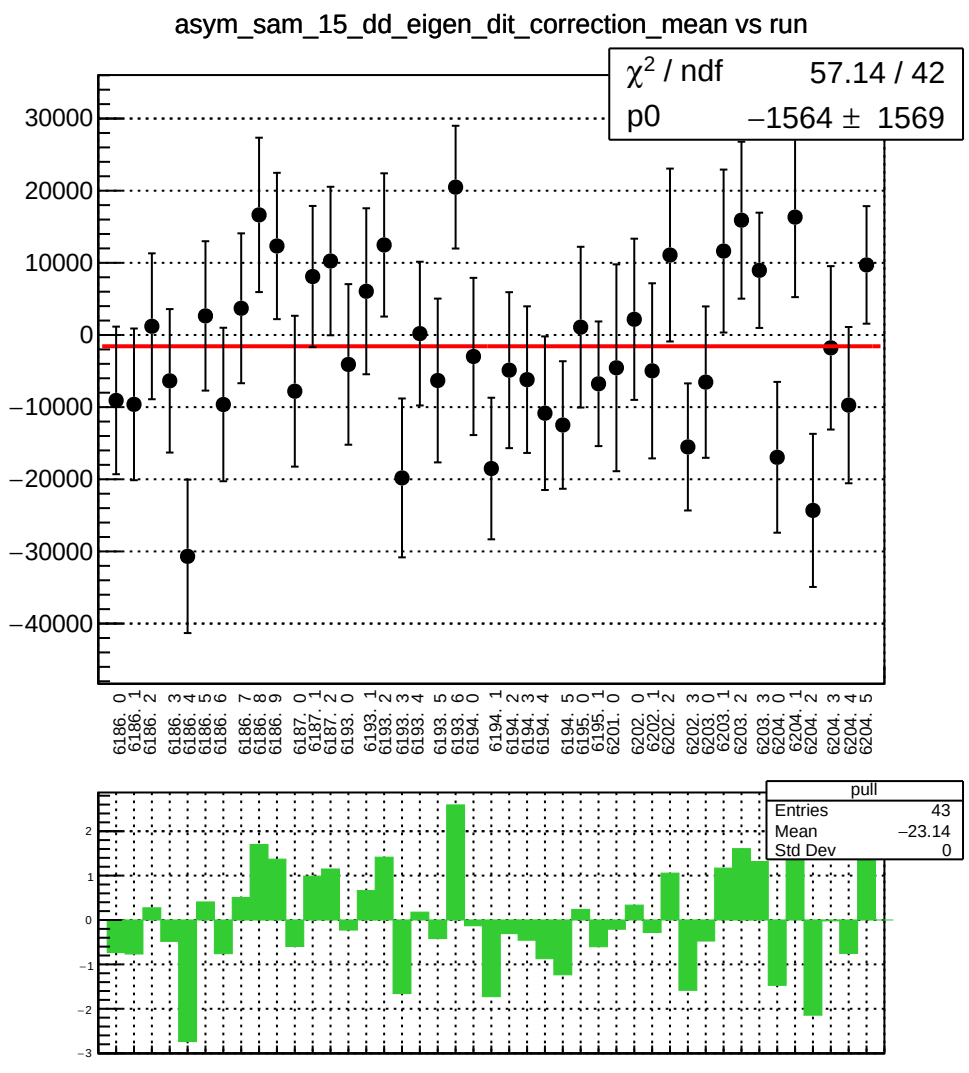

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1105 / 42
p0 99.82 ± 0.1086
112
110
108
106
104
102
100
98
96
94
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

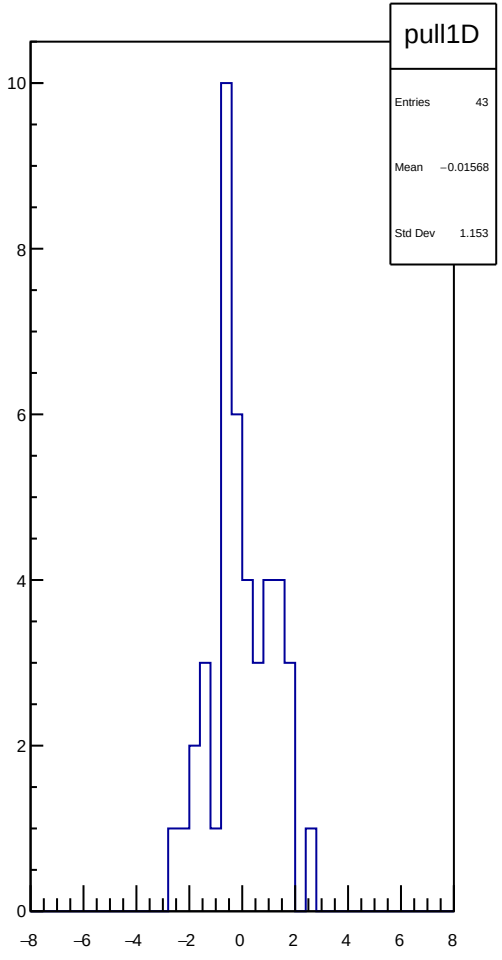

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 57.14 / 42
p0 −1564 ± 1569
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −23.14
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01568
Std Dev 1.153
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

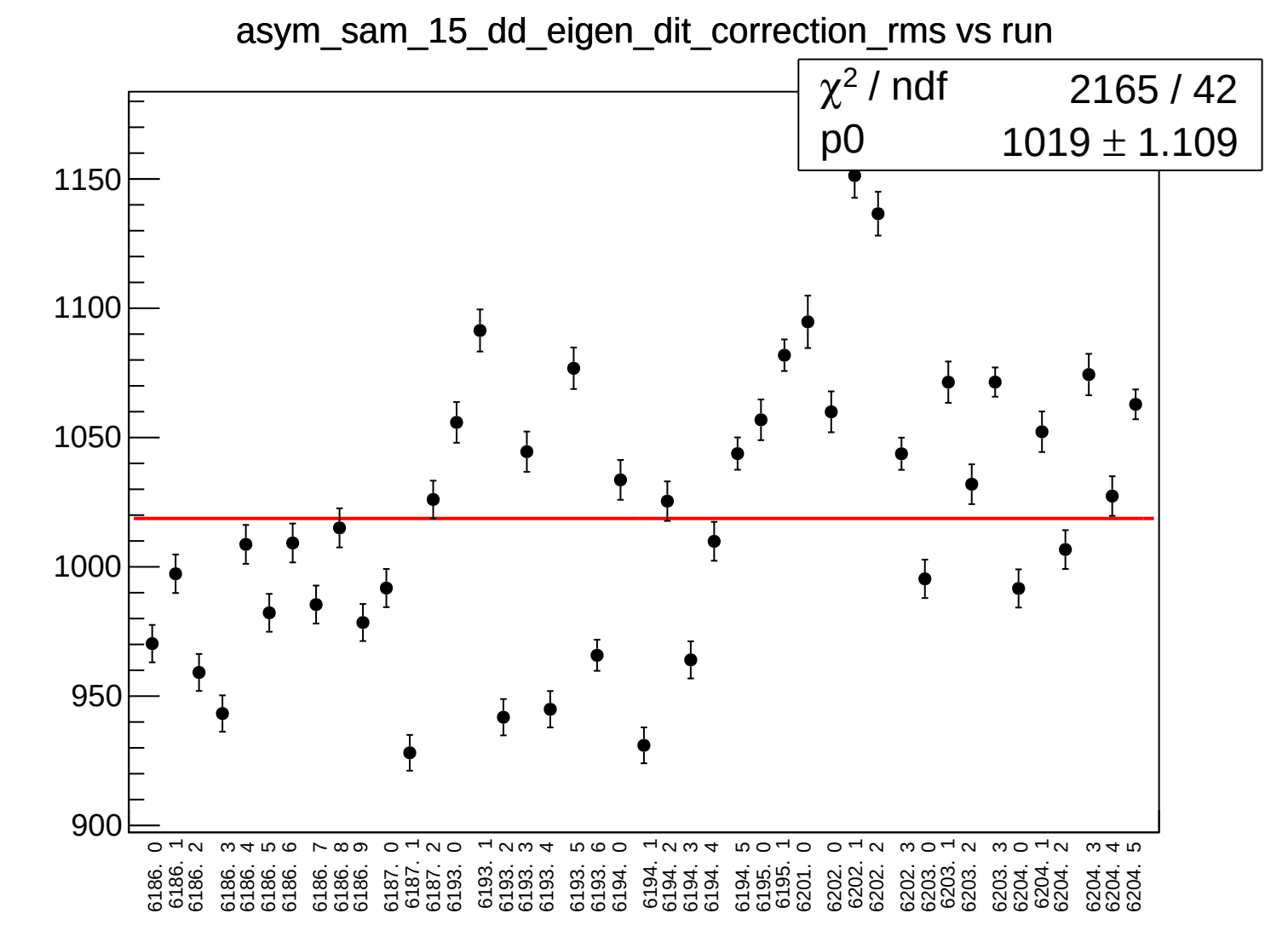

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2165 / 42
p0 1019 ± 1.109
1150
1100
1050
1000
950
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

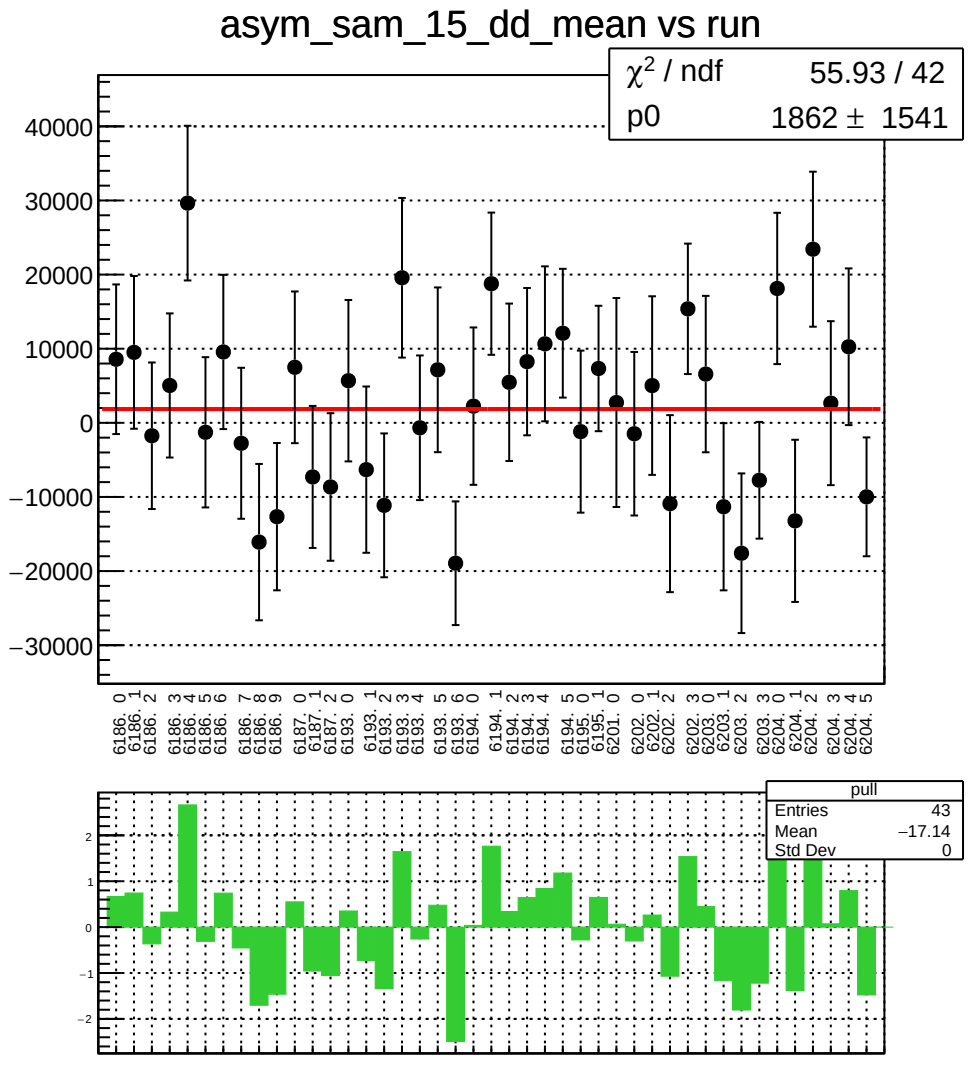

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 37.61 / 42
p0 280.5 ± 153.6
pull
Entries 43
Mean −89.09
Std Dev 0
pull1D
Entries 43
Mean −0.0129
Std Dev 0.9352

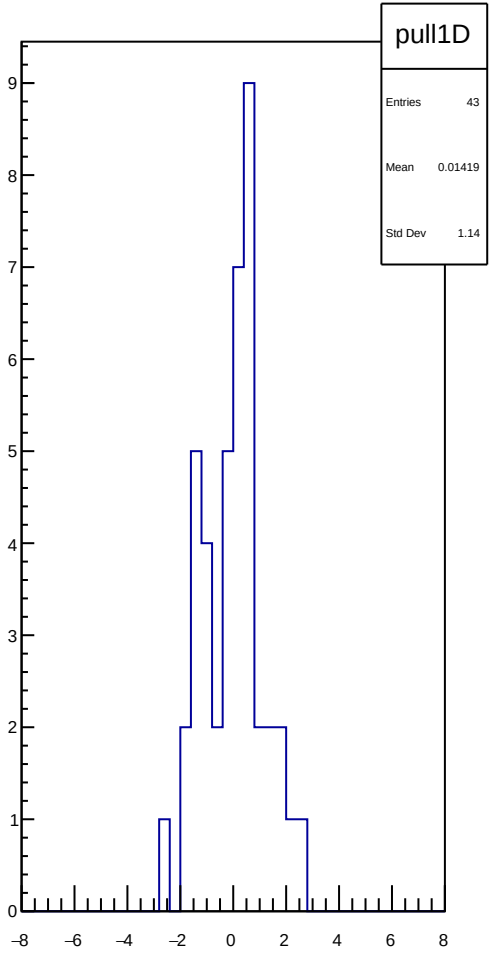

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 1105 / 42
p0 99.82 ± 0.1086
112
110
108
106
104
102
100
98
96
94
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

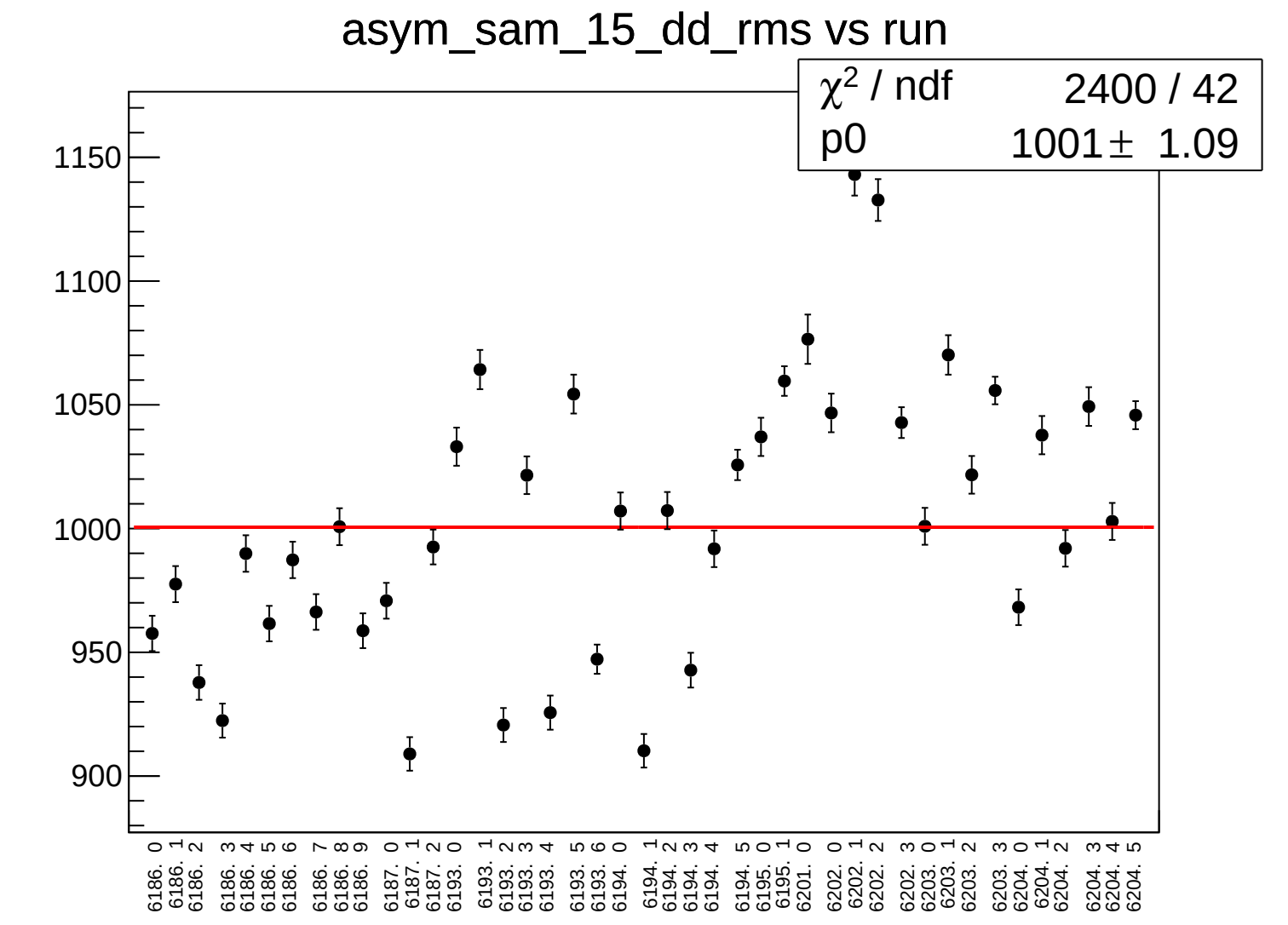

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 57.14 / 42
p0 −1564 ± 1569
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −23.14
Std Dev 0
2
1
0
−1
−2
−3

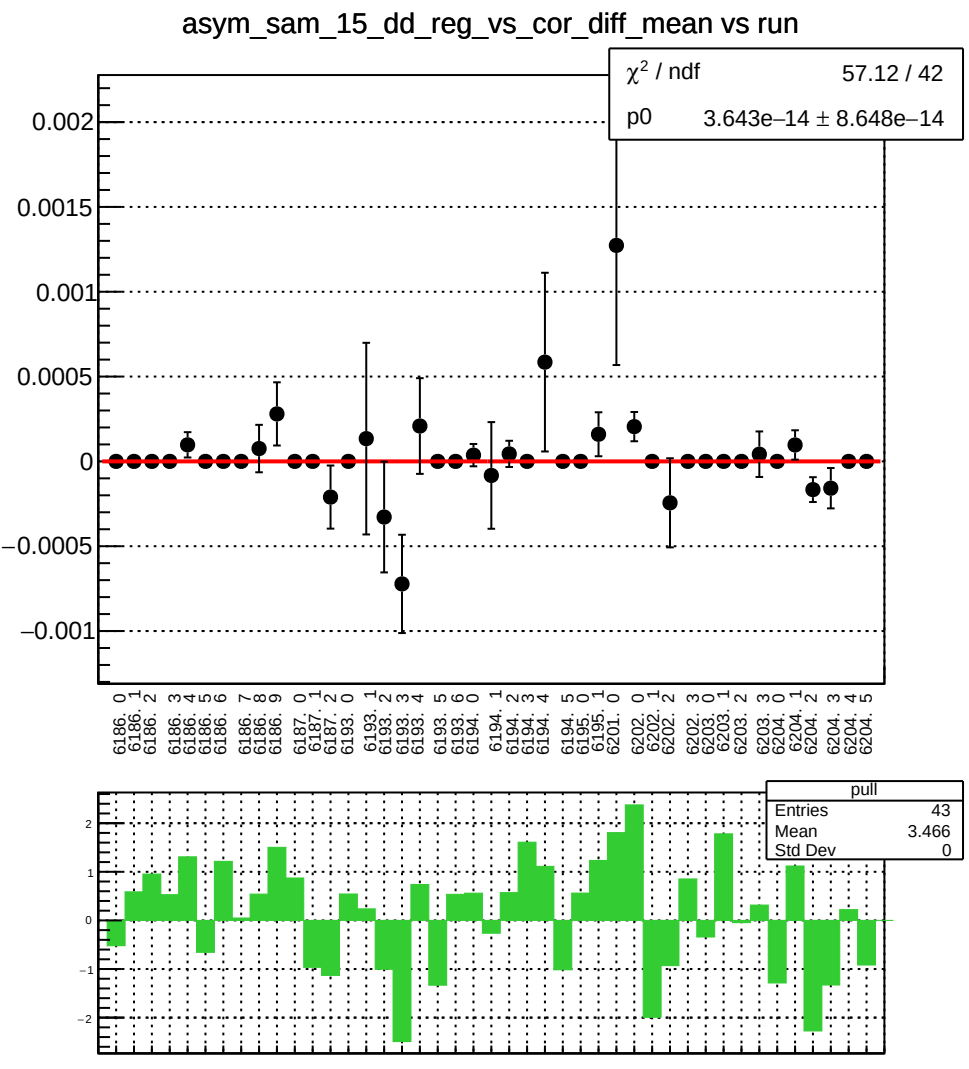

pull1D
Entries 43
Mean −0.01568
Std Dev 1.153
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

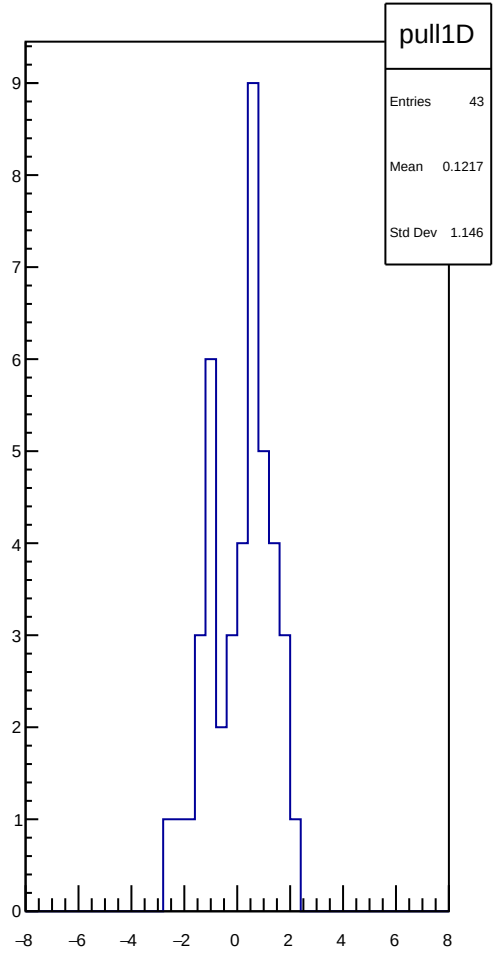

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2165 / 42
p0 1019 ± 1.109
1150
1100
1050
1000
950
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

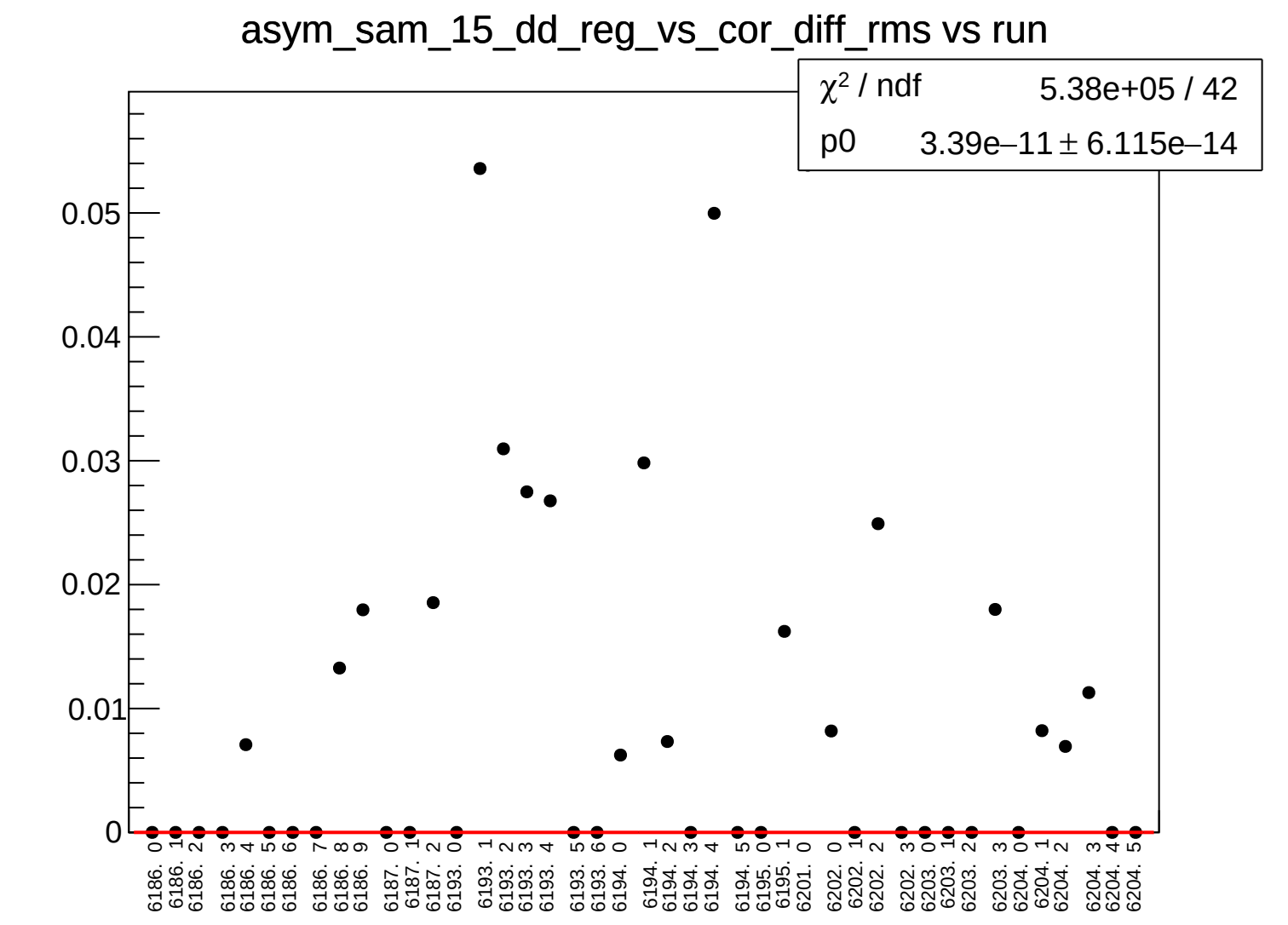

asym_sam_15_dd_mean vs run
χ² / ndf 55.93 / 42
p0 1862 ± 1541
40000
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −17.14
Std Dev 0
2
1
0
−1
−2

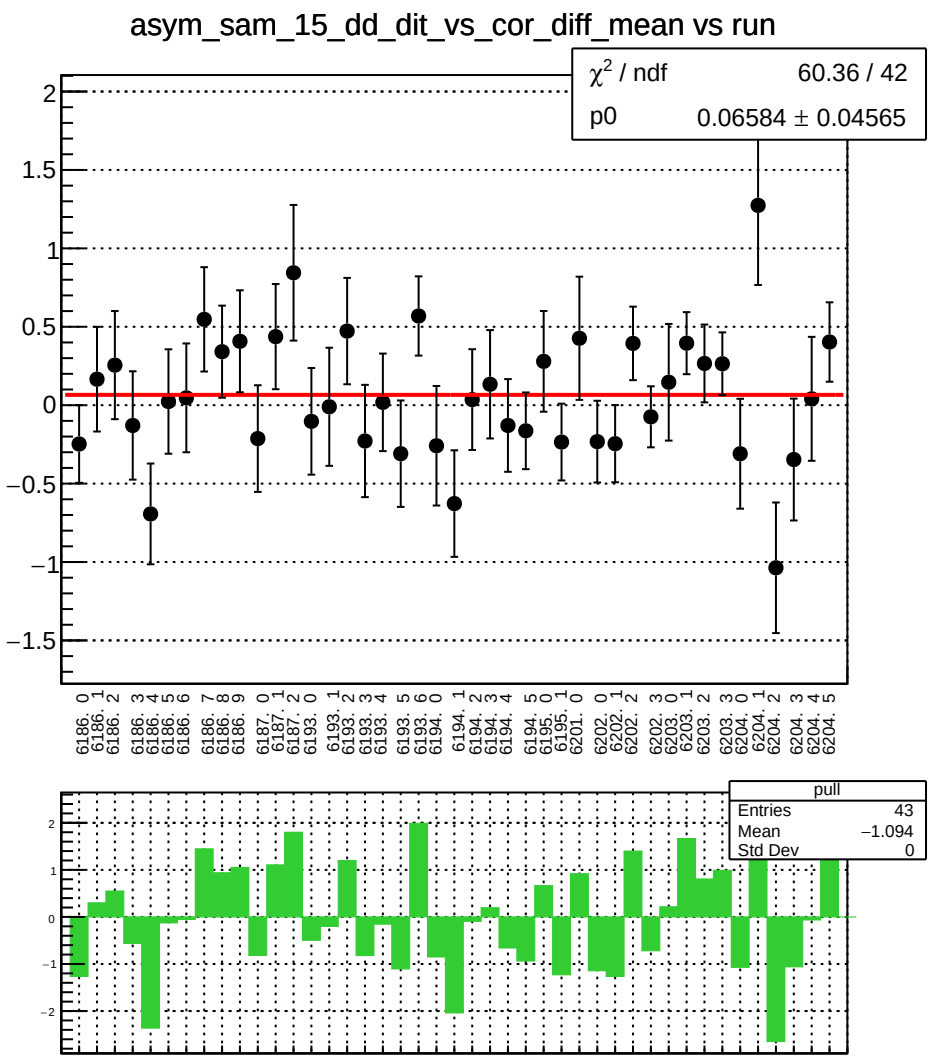

pull1D
Entries 43
Mean 0.01419
Std Dev 1.14
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

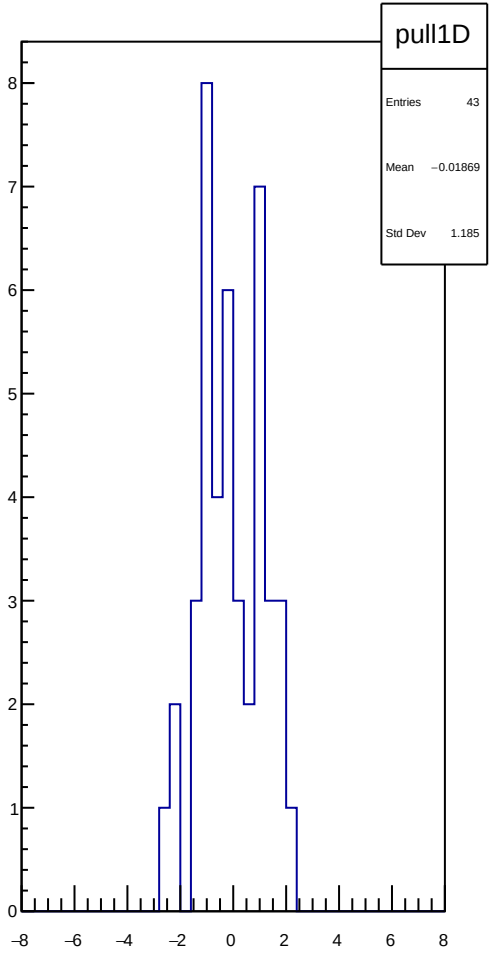

asym_sam_15_dd_rms vs run
χ² / ndf 2400 / 42
p0 1001 ± 1.09
1150
1100
1050
1000
950
900
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

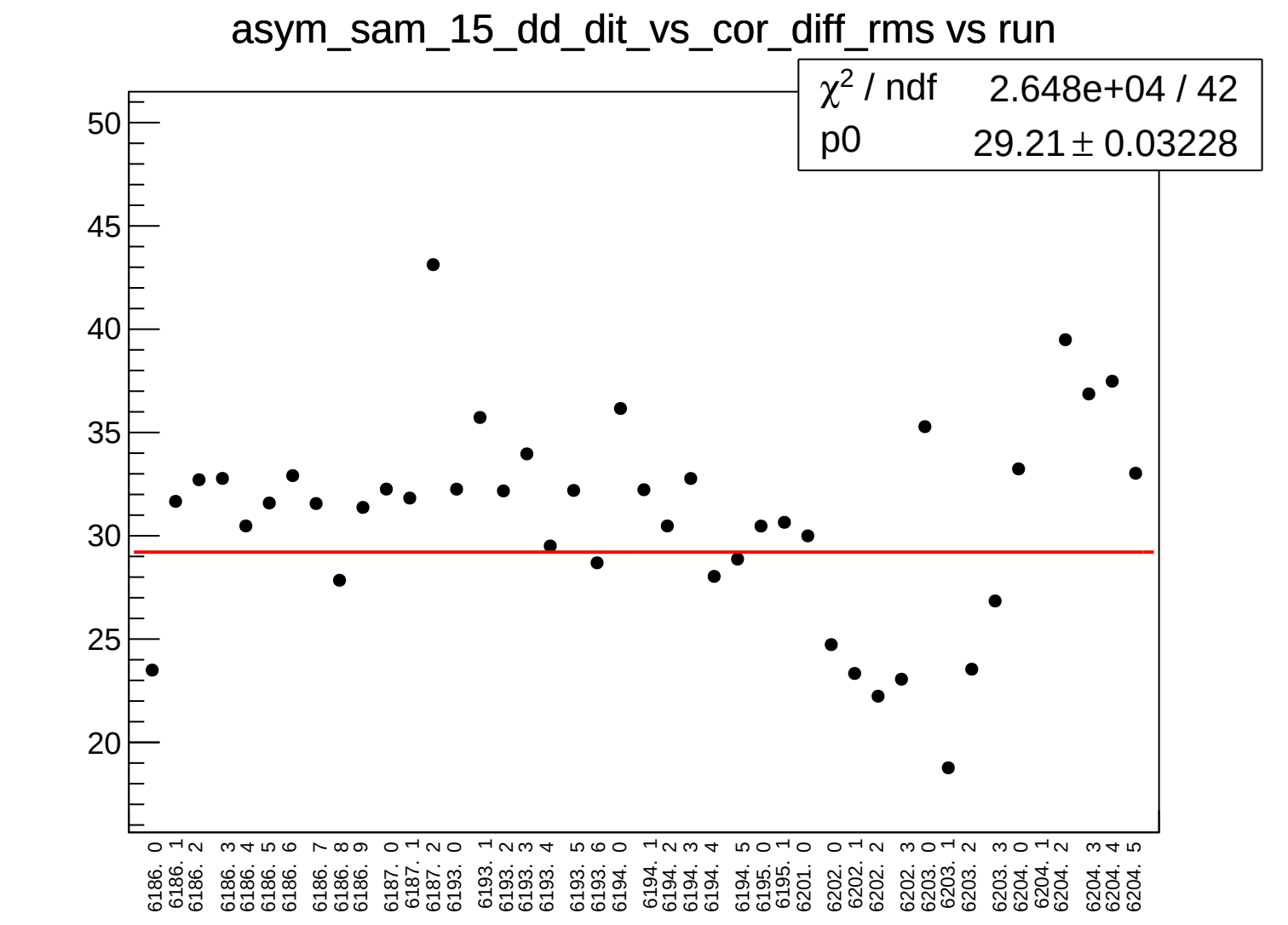

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 57.12 / 42
p0 3.643e−14 ± 8.648e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 3.466
Std Dev 0
2
1
0
−1
−2

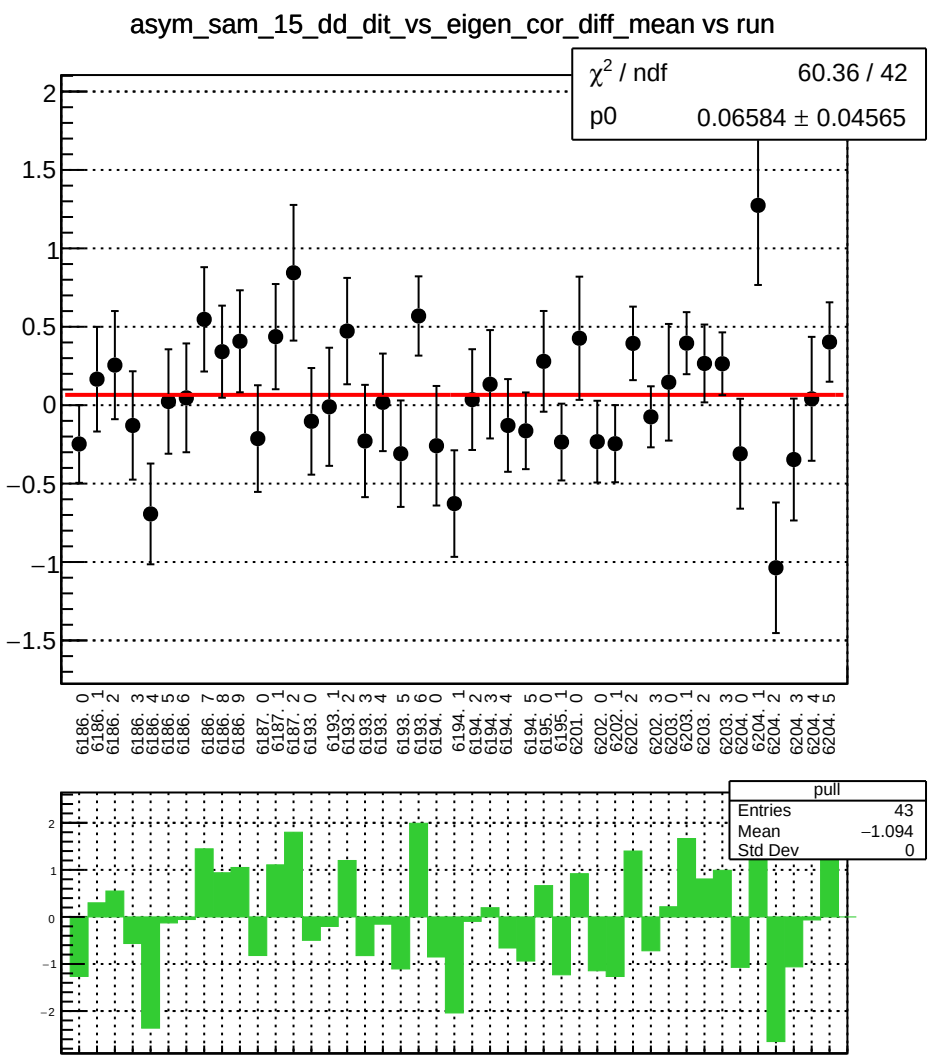

pull1D
Entries 43
Mean 0.1217
Std Dev 1.146
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

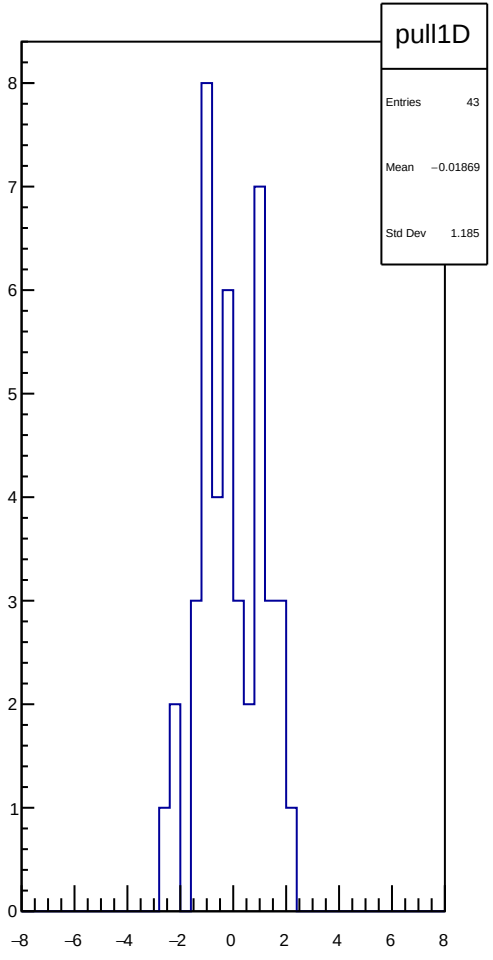

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.38e+05 / 42
p0 3.39e−11 ± 6.115e−14
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

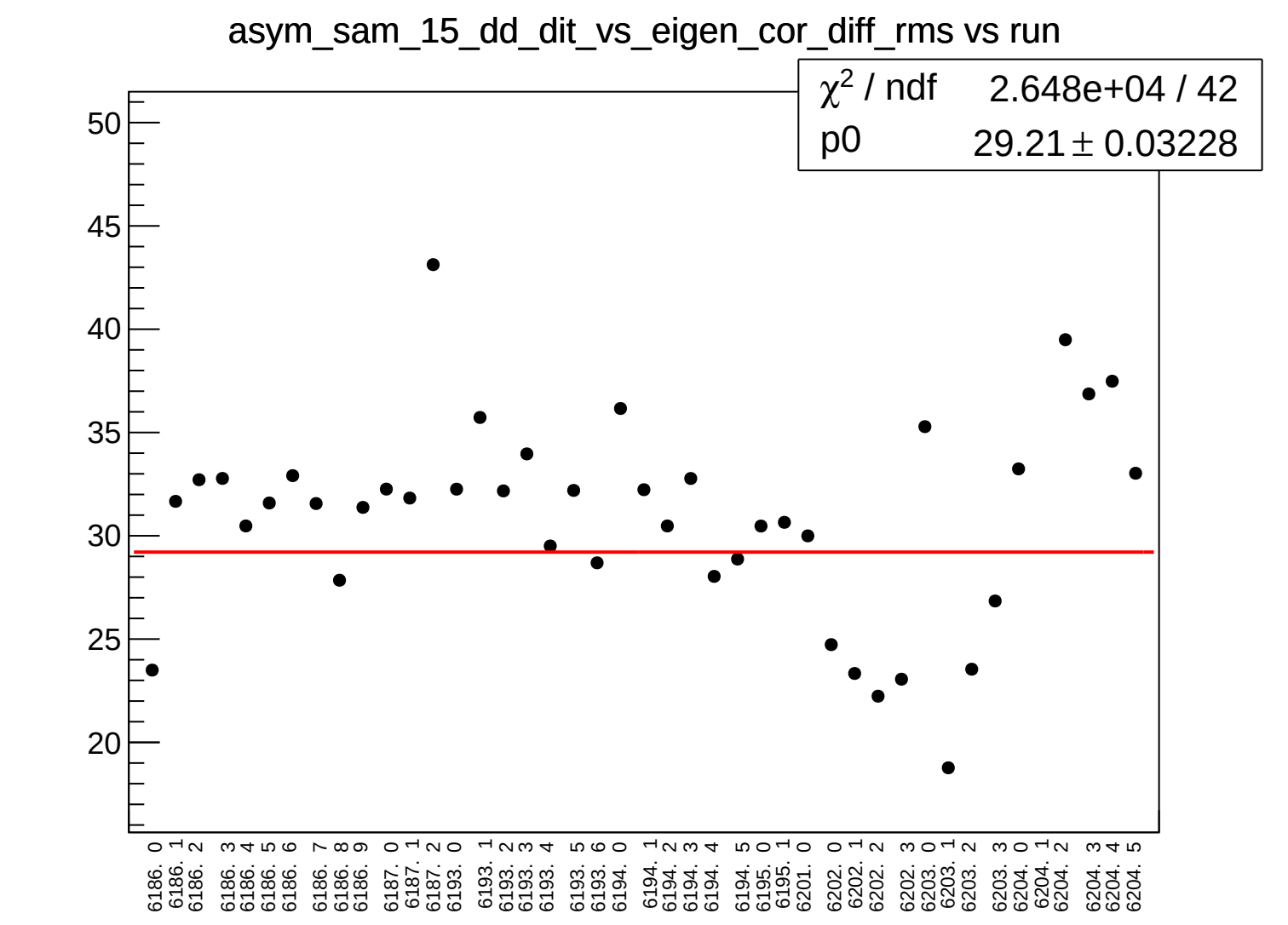

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 60.36 / 42
p0 0.06584 ± 0.04565
pull
Entries 43
Mean −1.094
Std Dev 0

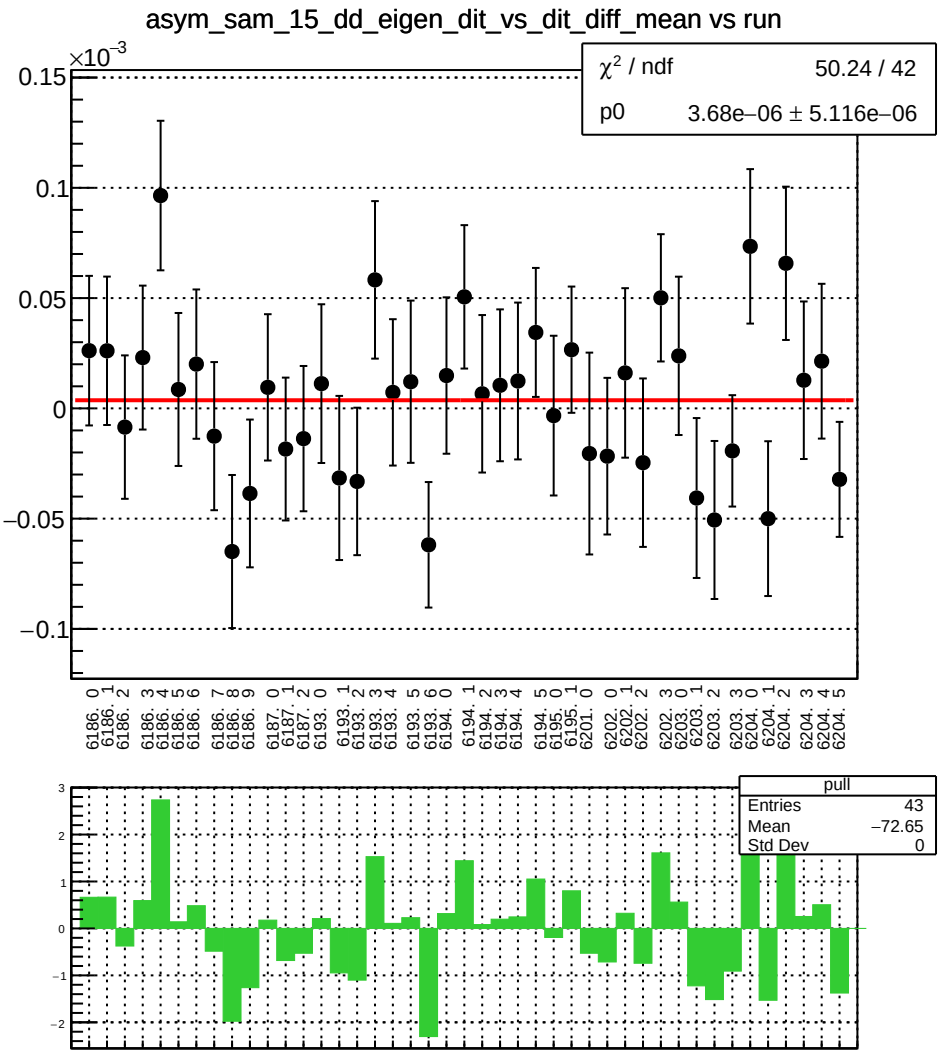

pull1D
Entries 43
Mean −0.01869
Std Dev 1.185

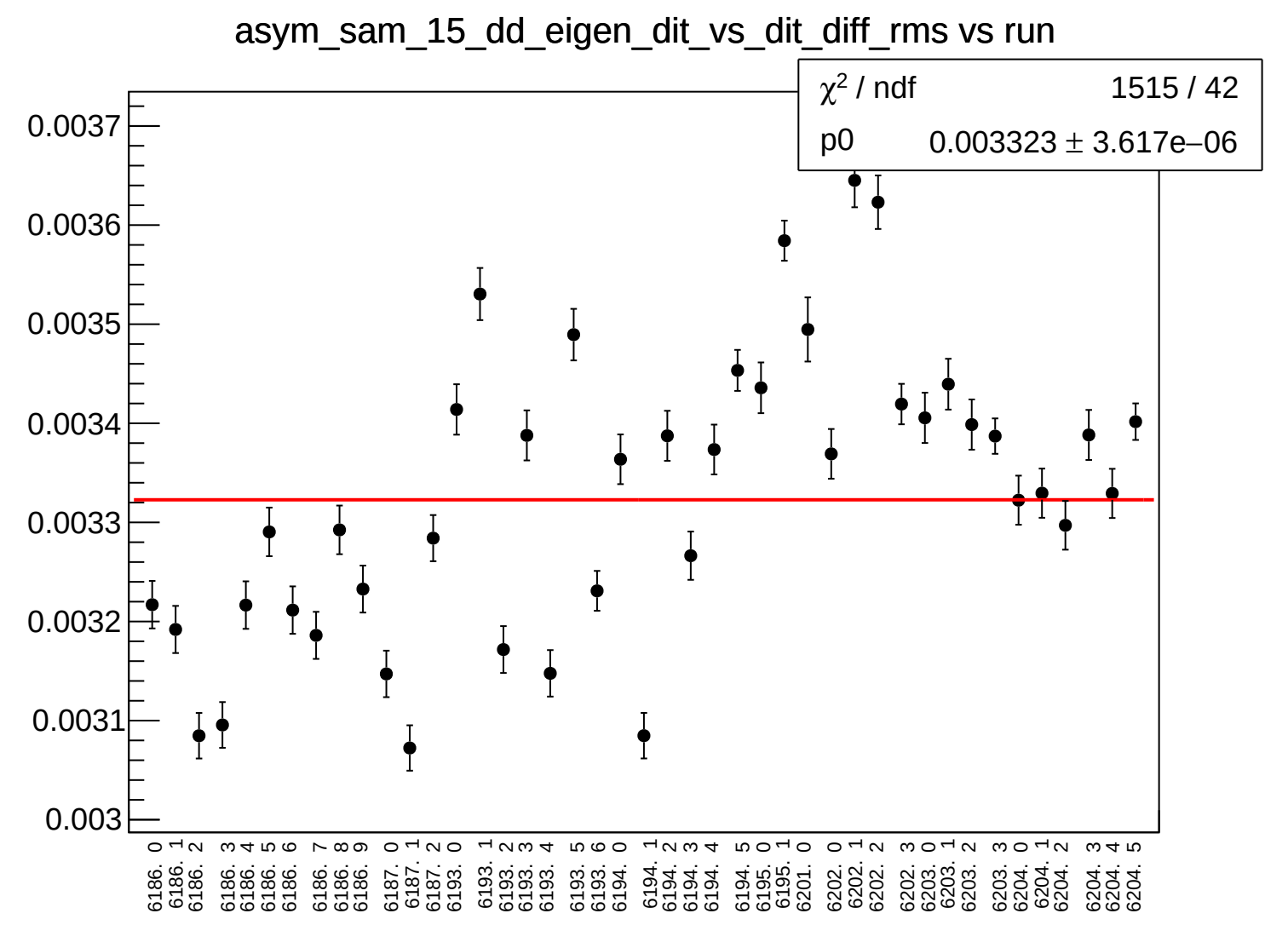

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.648e+04 / 42
p0 29.21 ± 0.03228
50
45
40
35
30
25
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

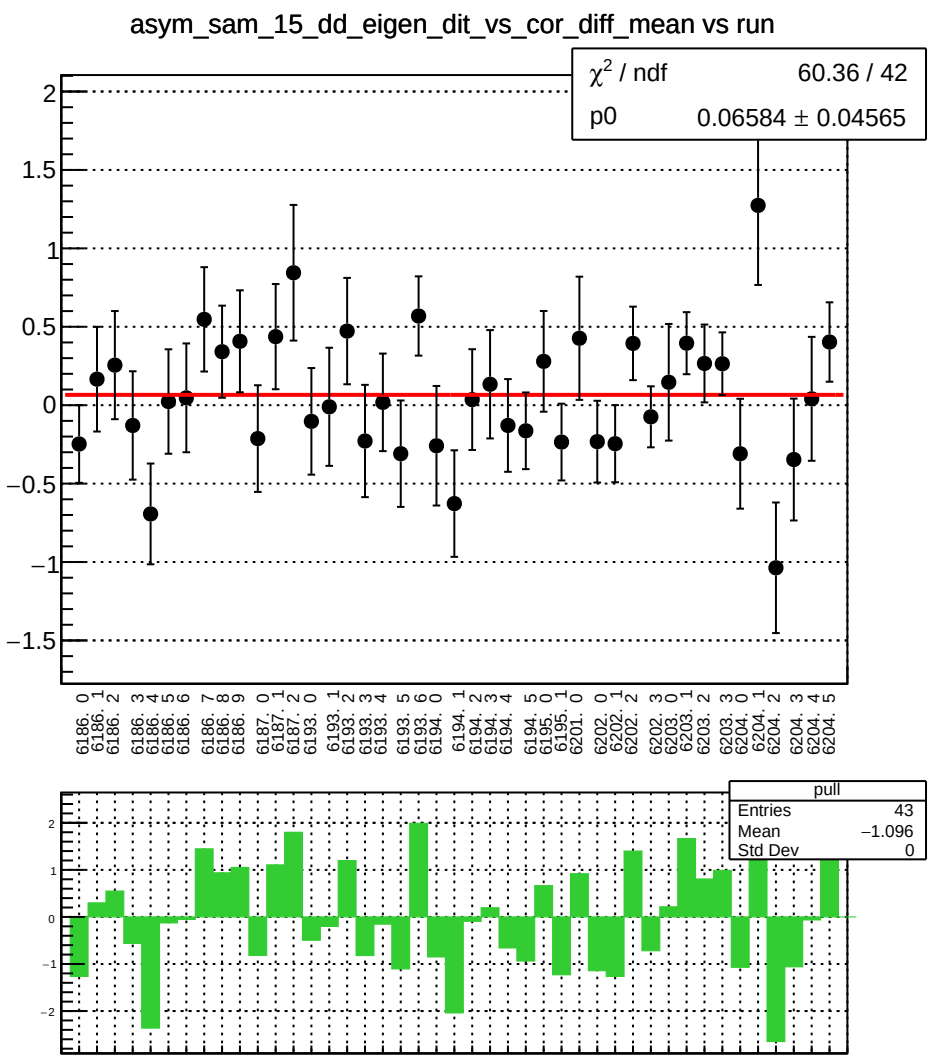

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.36 / 42
p0 0.06584 ± 0.04565
pull
Entries 43
Mean −1.094
Std Dev 0

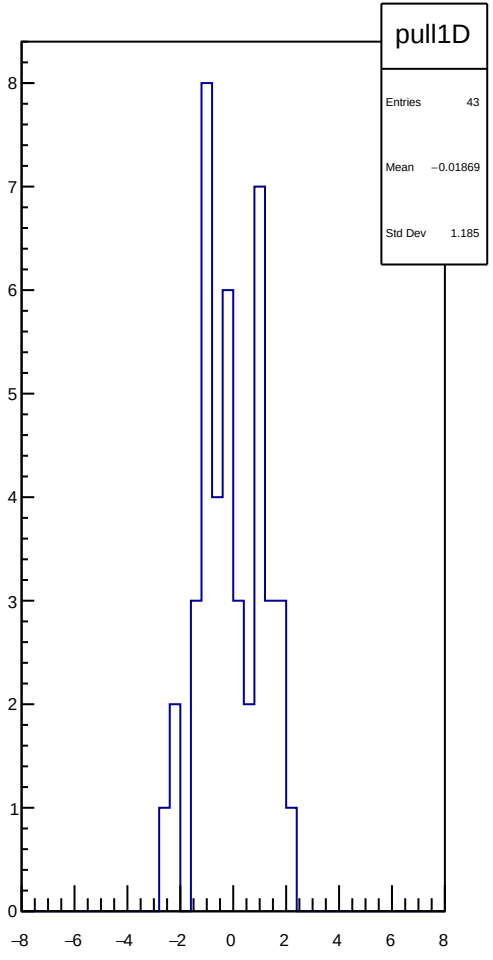

pull1D
Entries 43
Mean −0.01869
Std Dev 1.185

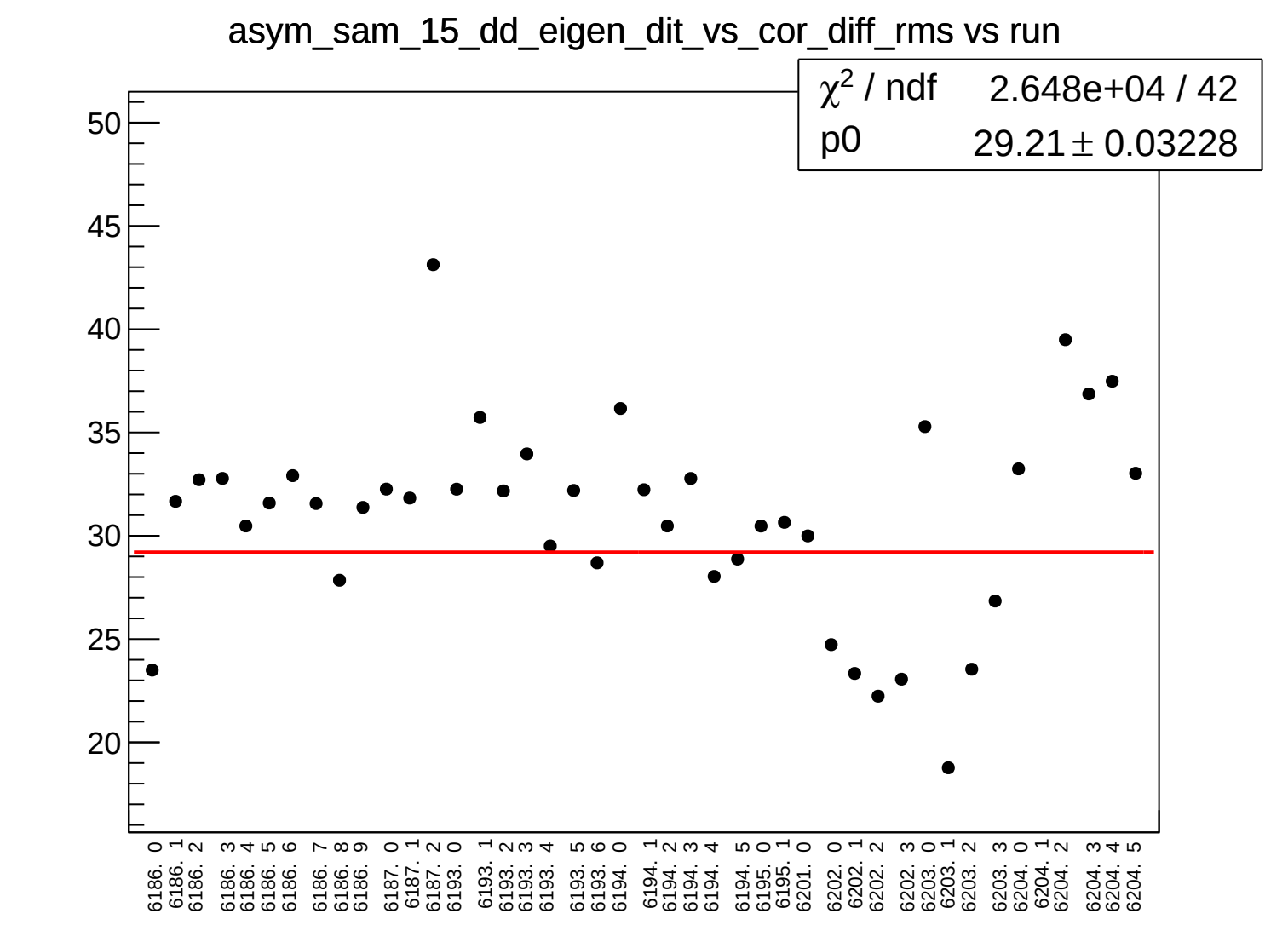

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.648e+04 / 42
p0 29.21 ± 0.03228
50
45
40
35
30
25
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

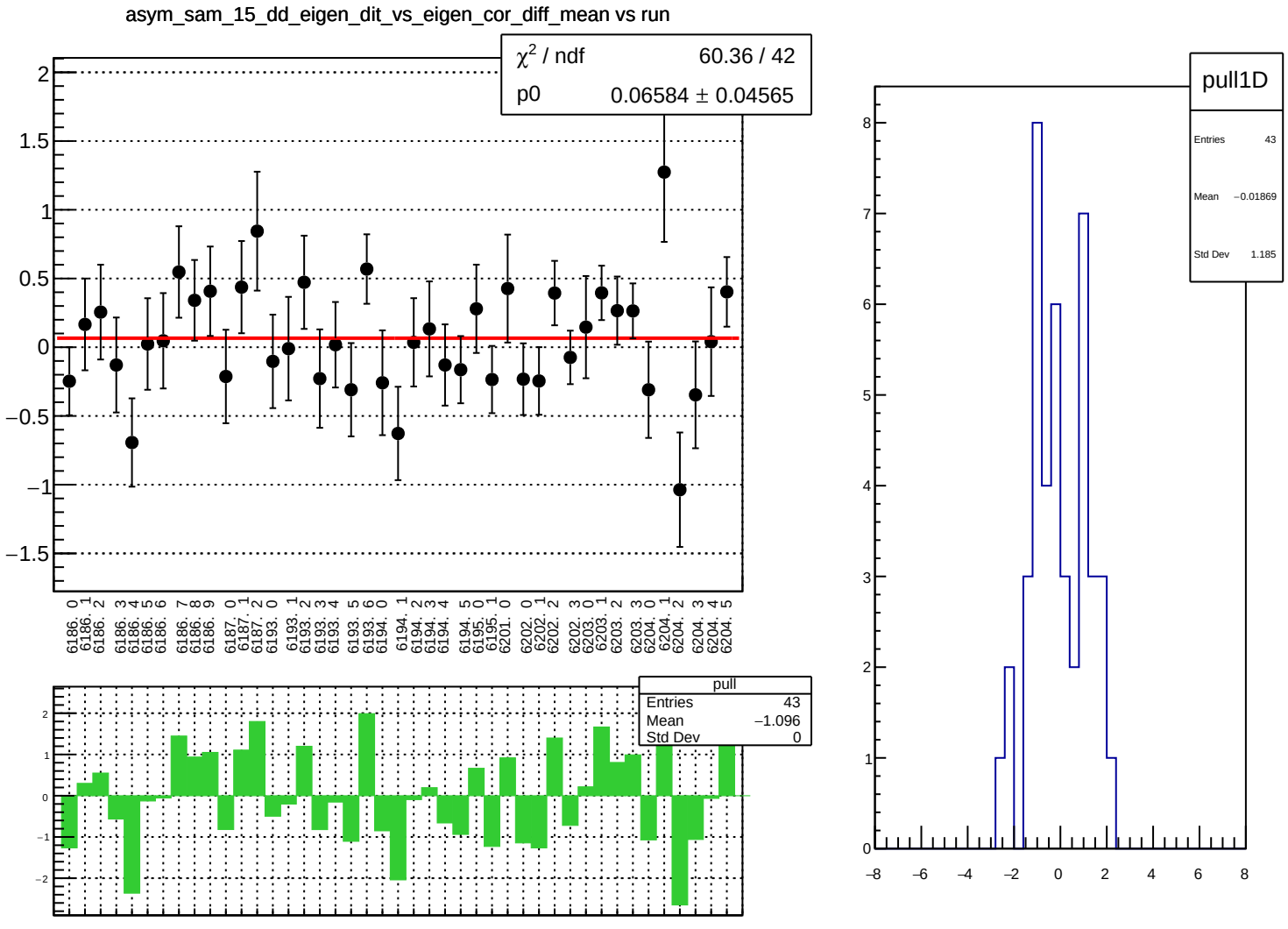

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 50.24 / 42
p0 3.68e−06 ± 5.116e−06
0.15
0.1
0.05
0
−0.05
−0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −72.65
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.007267
Std Dev 1.081
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

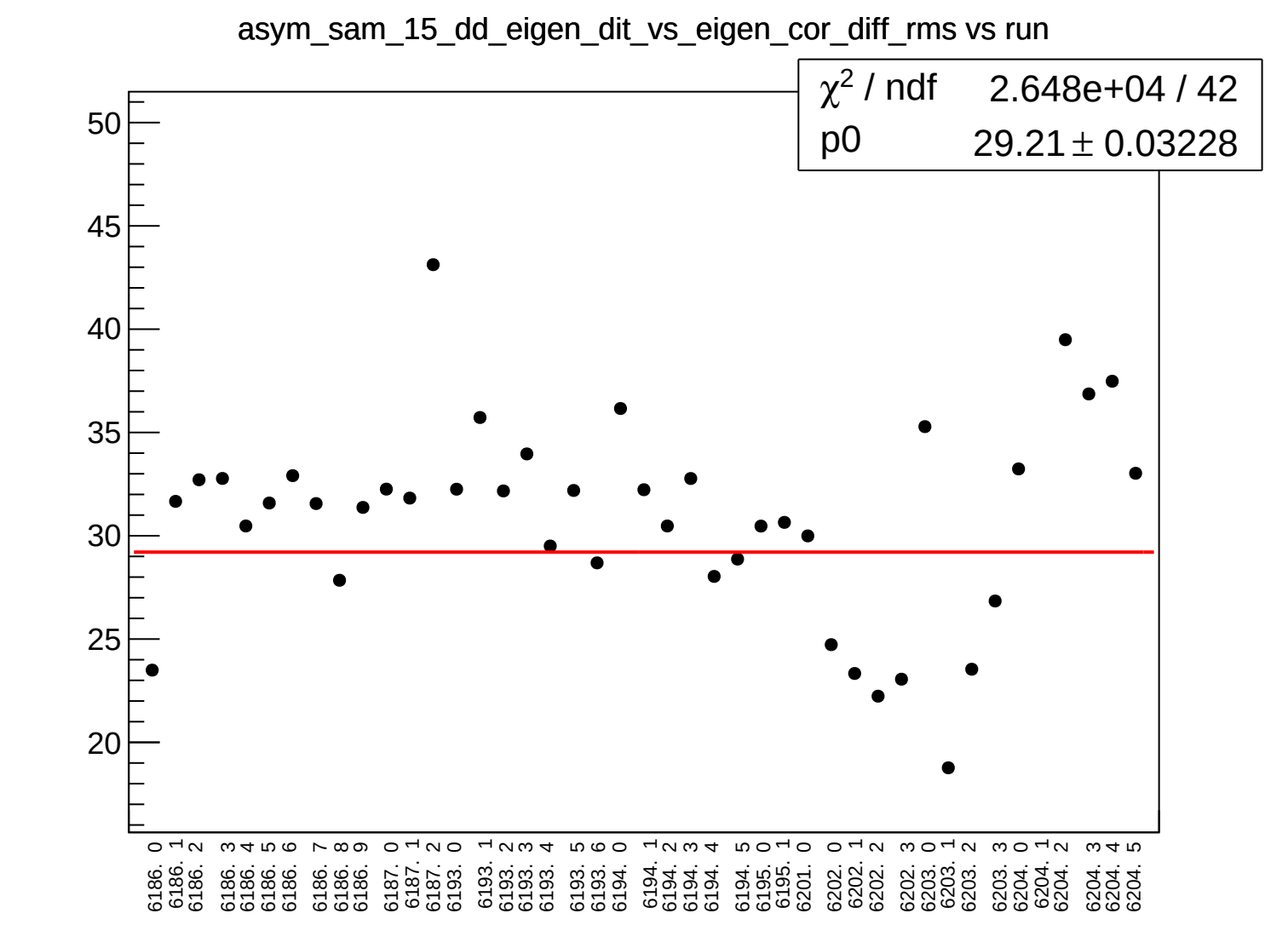

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1515 / 42
p0 0.003323 ± 3.617e−06
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

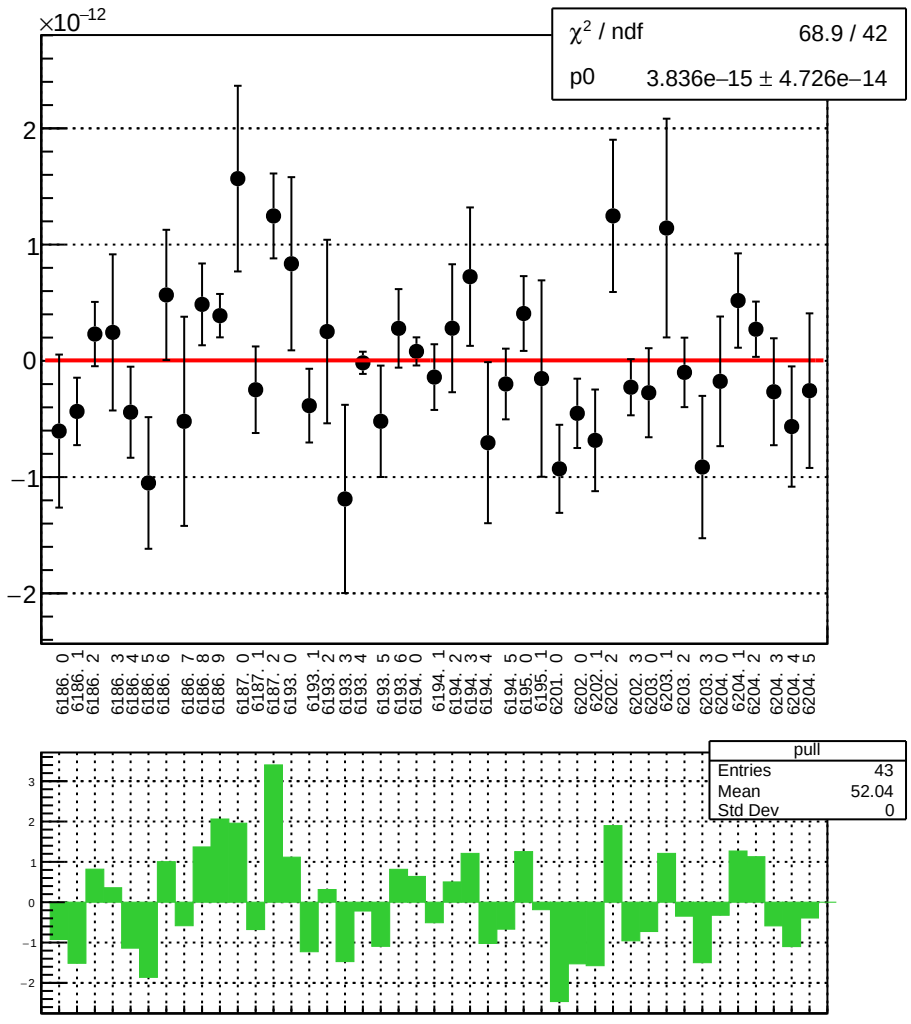

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 60.36 / 42
p0 0.06584 ± 0.04565
pull
Entries 43
Mean −1.096
Std Dev 0

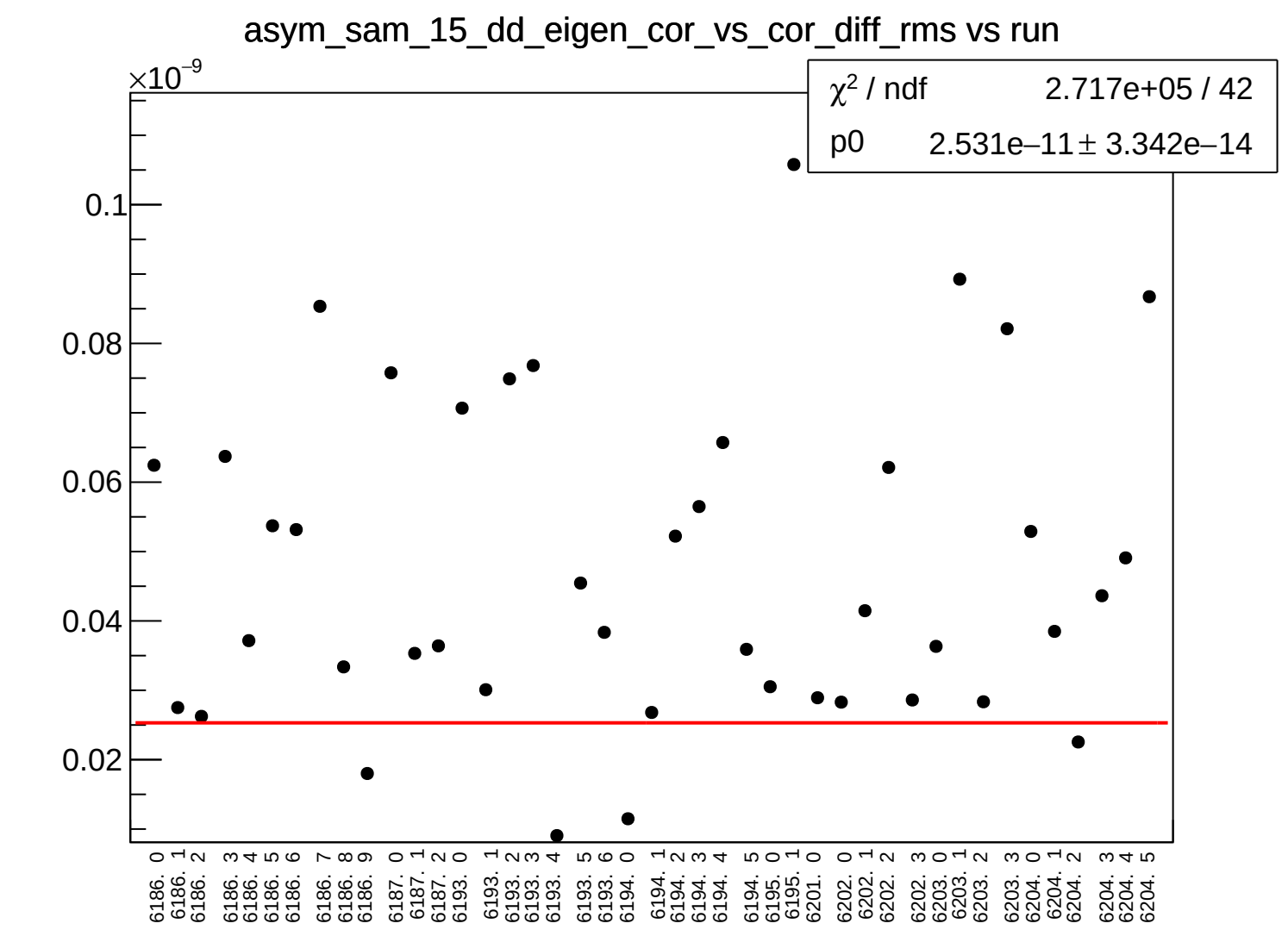

pull1D
Entries 43
Mean −0.01869
Std Dev 1.185

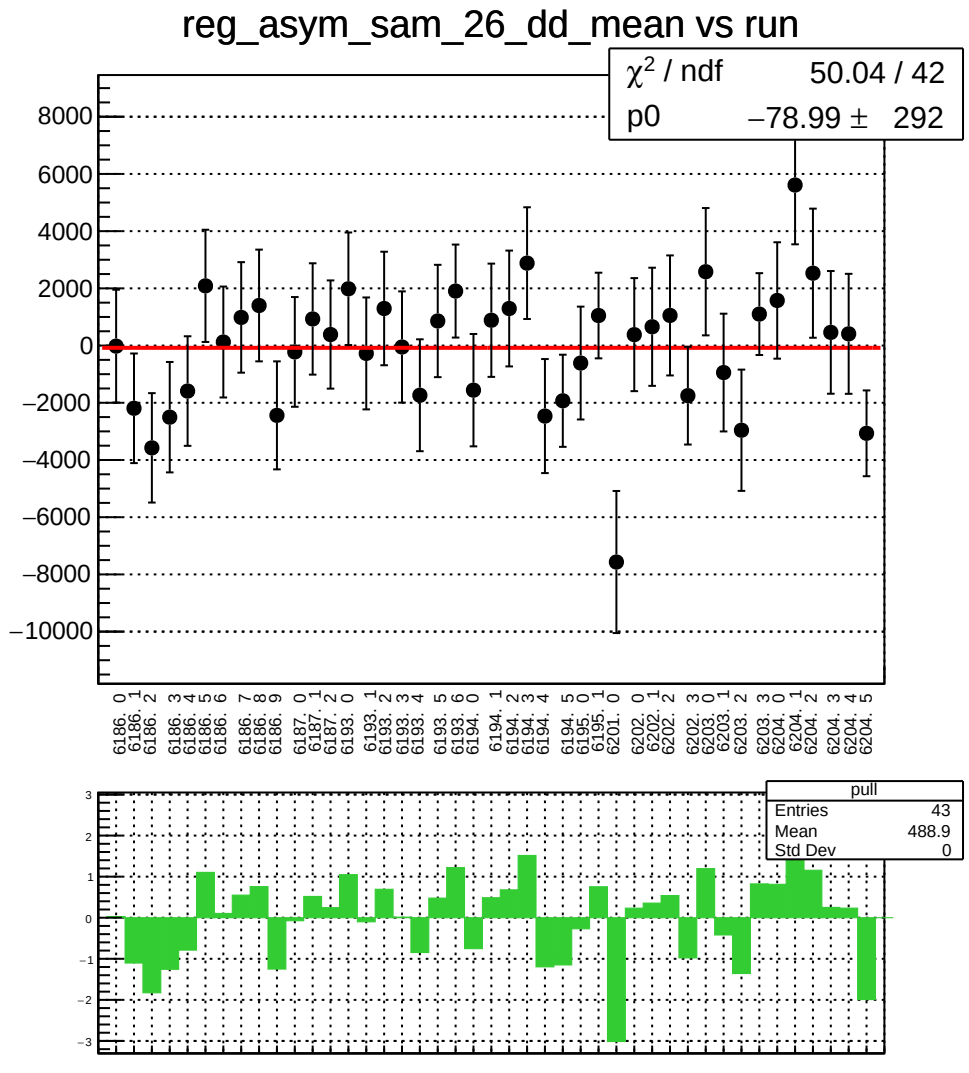

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.648e+04 / 42
p0 29.21 ± 0.03228
50
45
40
35
30
25
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

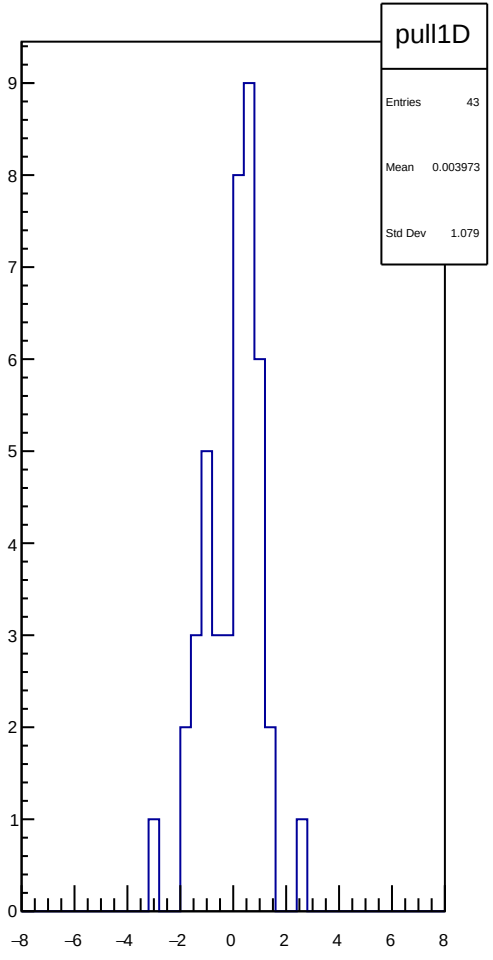

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.36 / 42
p0 0.06584 ± 0.04565
pull
Entries 43
Mean −1.096
Std Dev 0
pull1D
Entries 43
Mean −0.01869
Std Dev 1.185

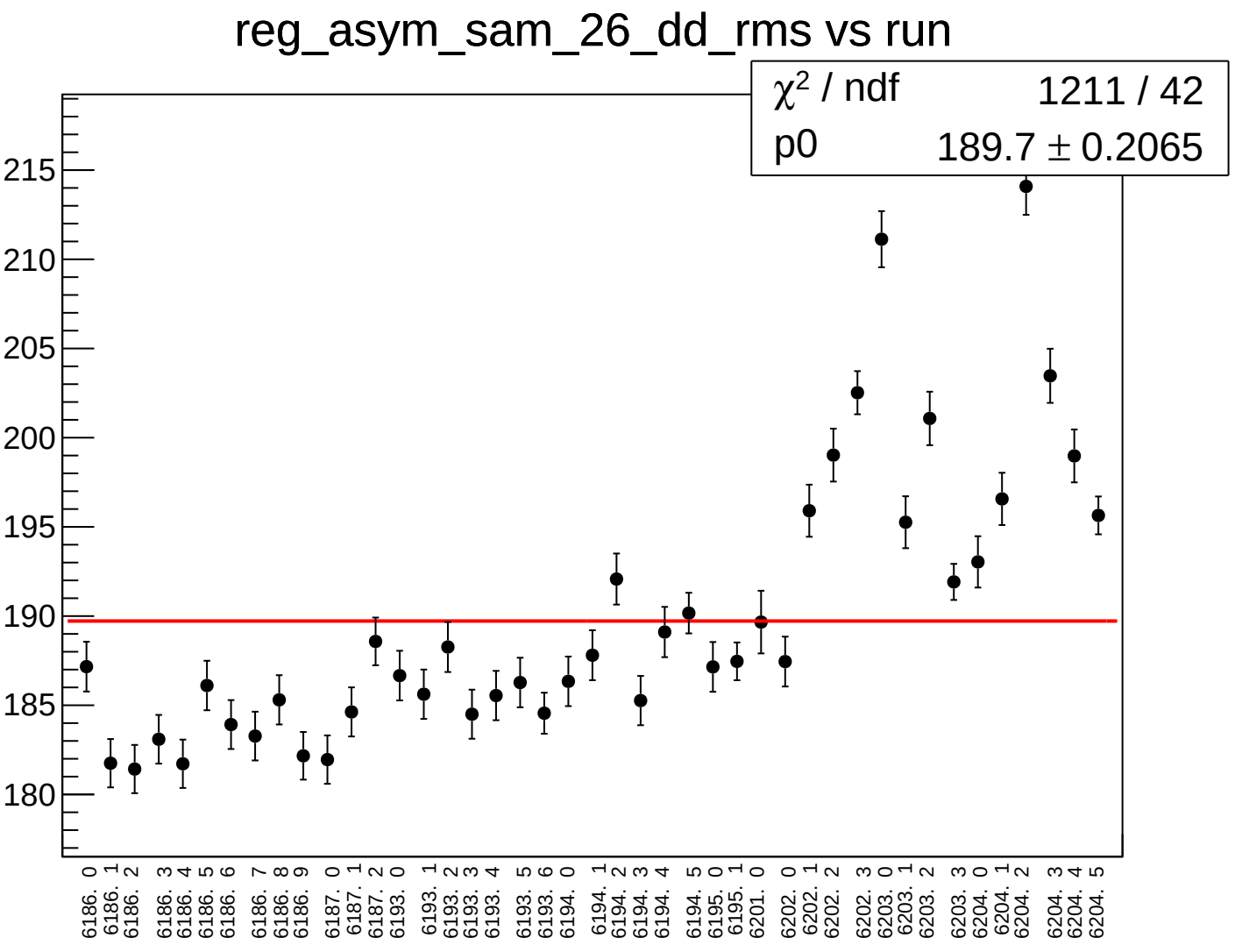

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.648e+04 / 42
p0 29.21 ± 0.03228
50
45
40
35
30
25
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

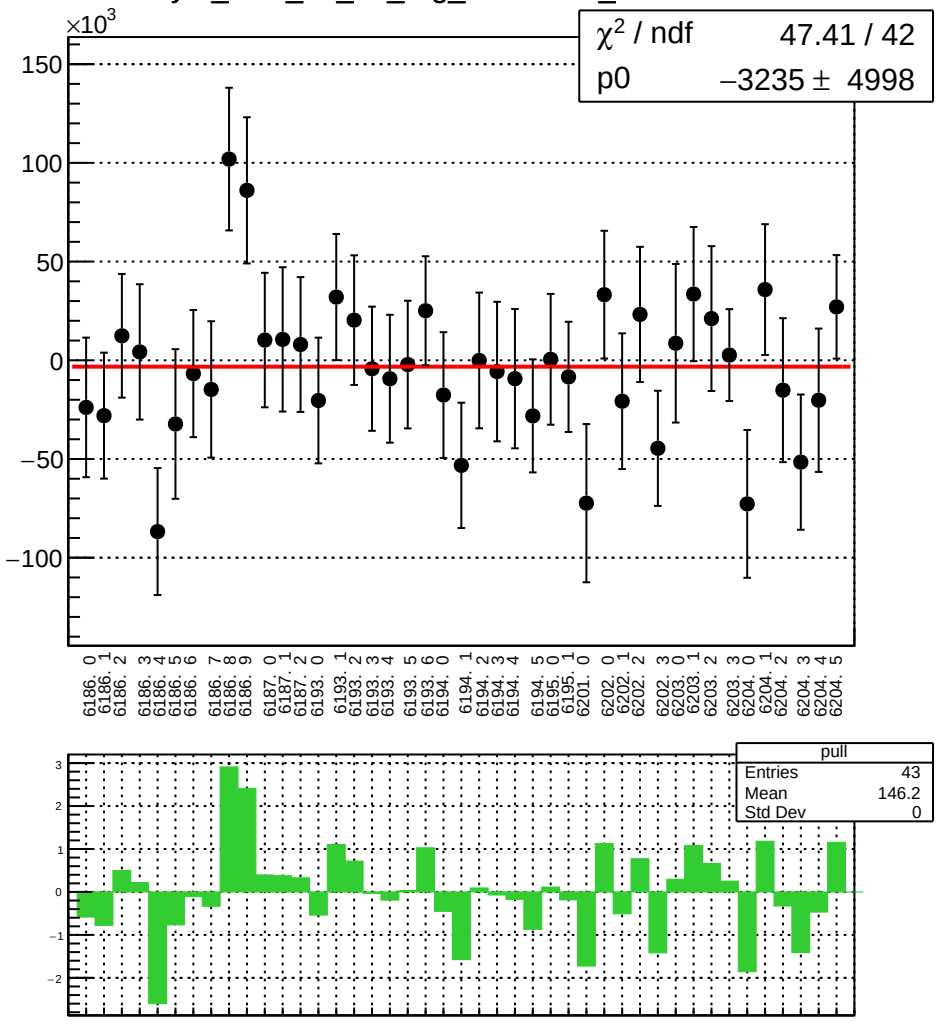

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.9 / 42
p0 3.836e−15 ± 4.726e−14
2
1
0
−1
−2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 52.04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.05239
Std Dev 1.265
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

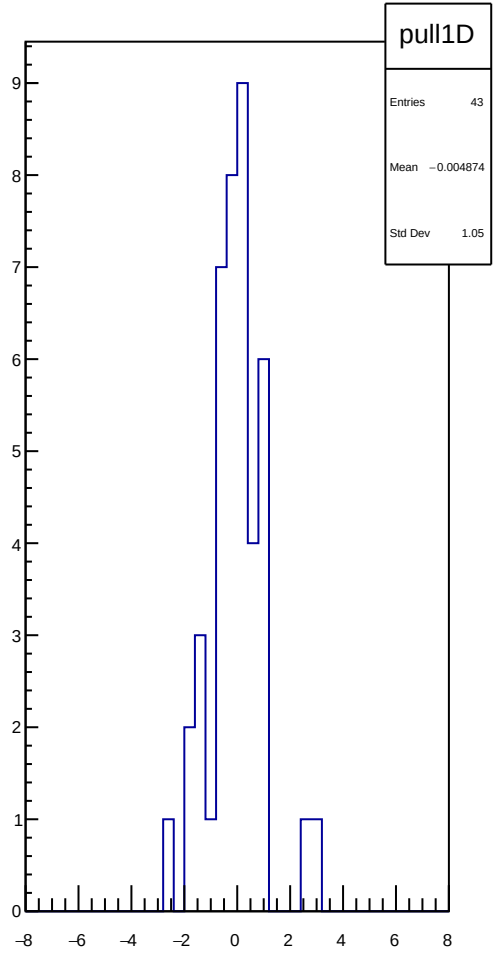

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.717e+05 / 42
p0 2.531e−11 ± 3.342e−14
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

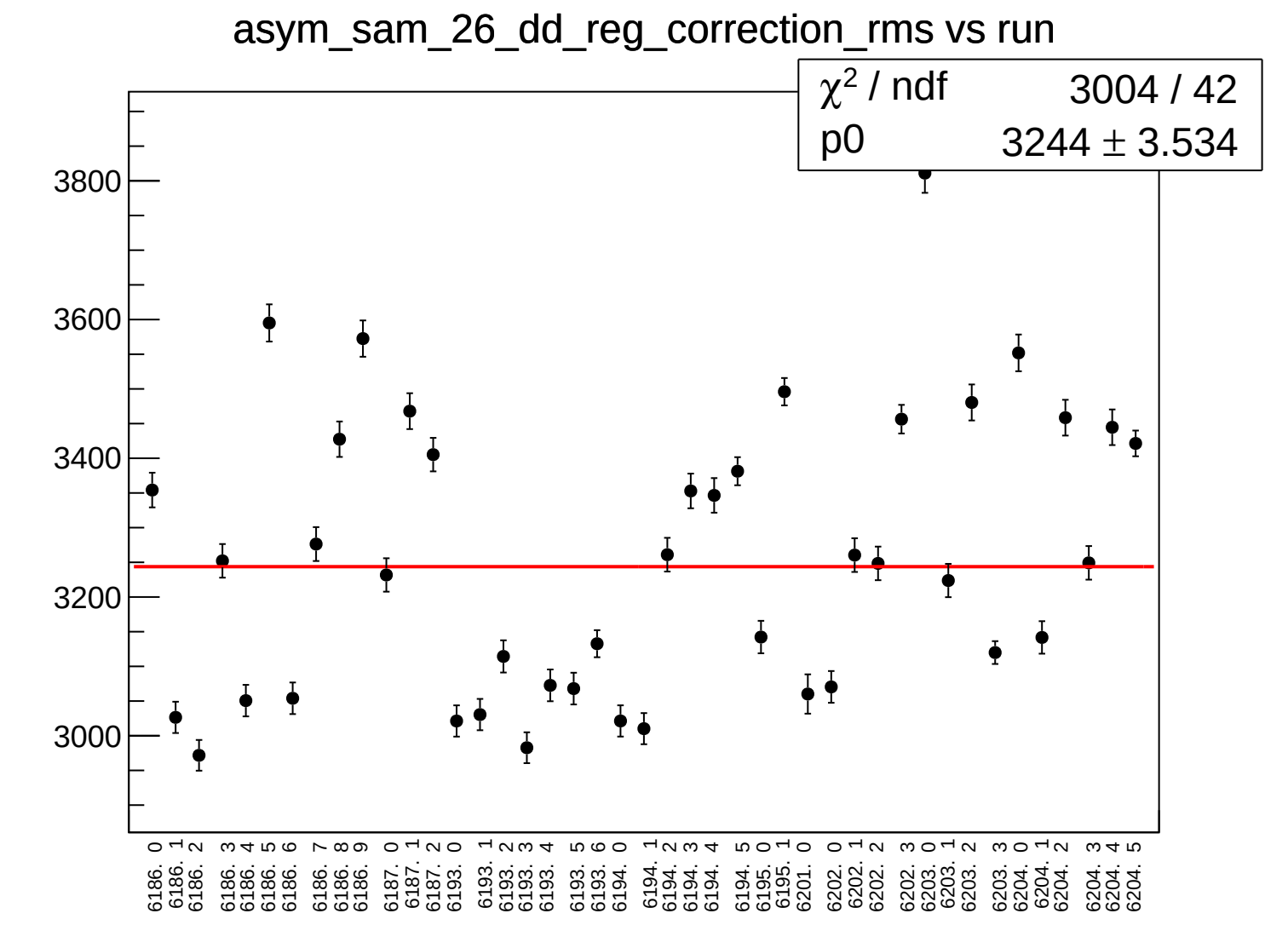

reg_asym_sam_26_dd_mean vs run
χ² / ndf 50.04 / 42
p0 −78.99 ± 292
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 488.9
Std Dev 0
3
2
1
0
−1
−2
−3

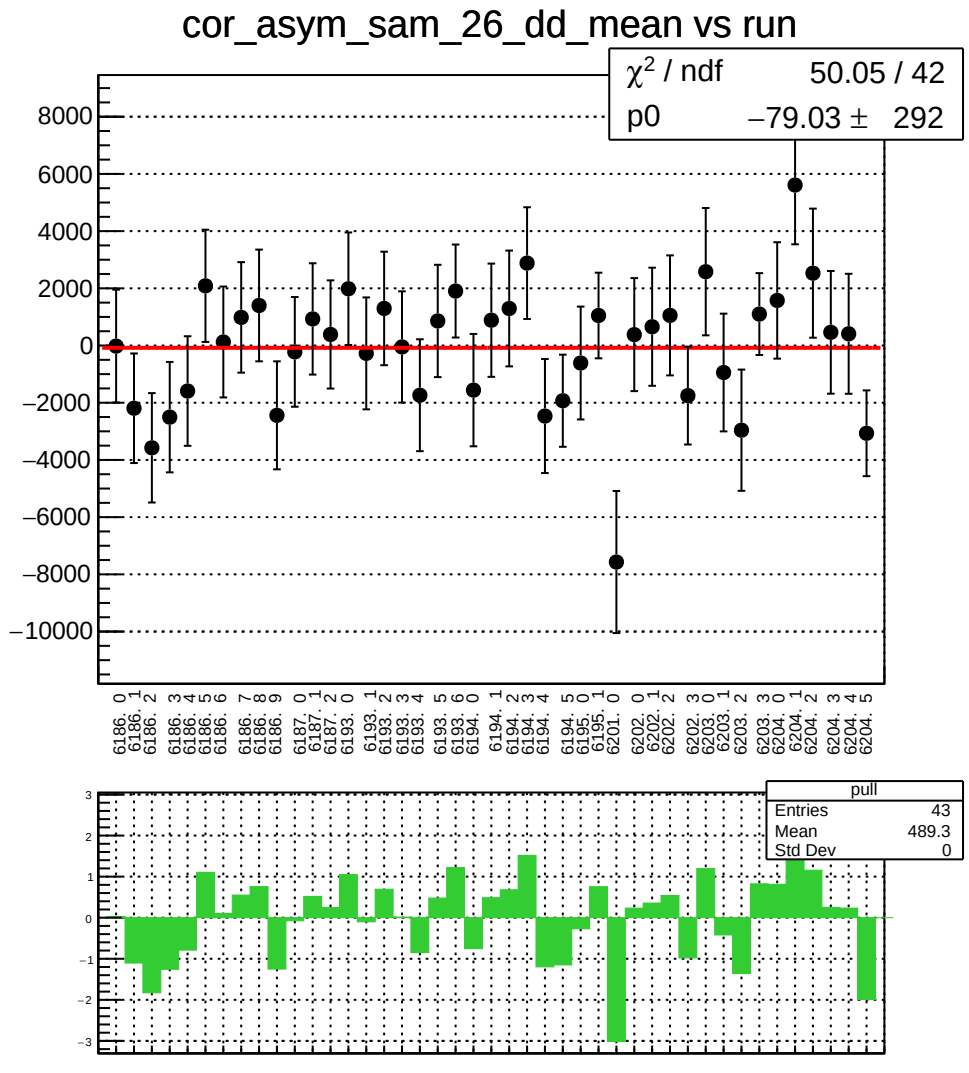

pull1D
Entries 43
Mean 0.003973
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

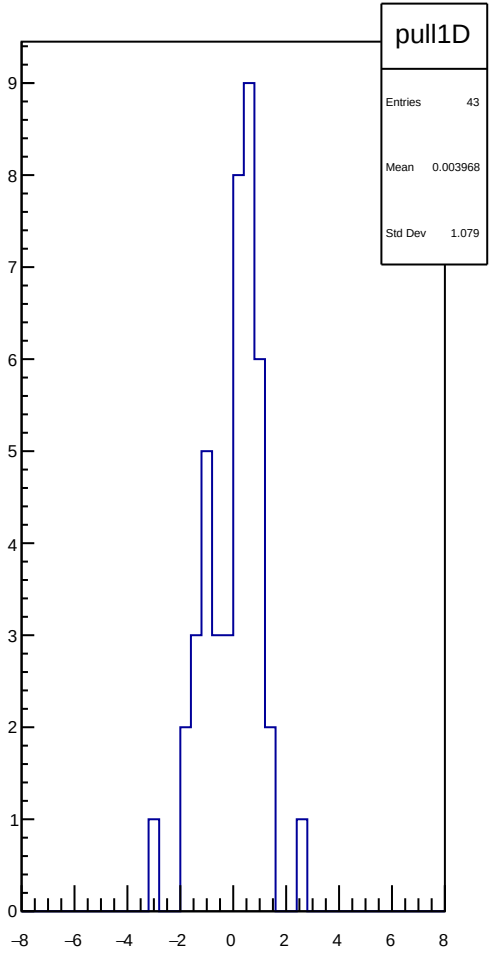

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1211 / 42
p0 189.7 ± 0.2065
215
210
205
200
195
190
185
180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

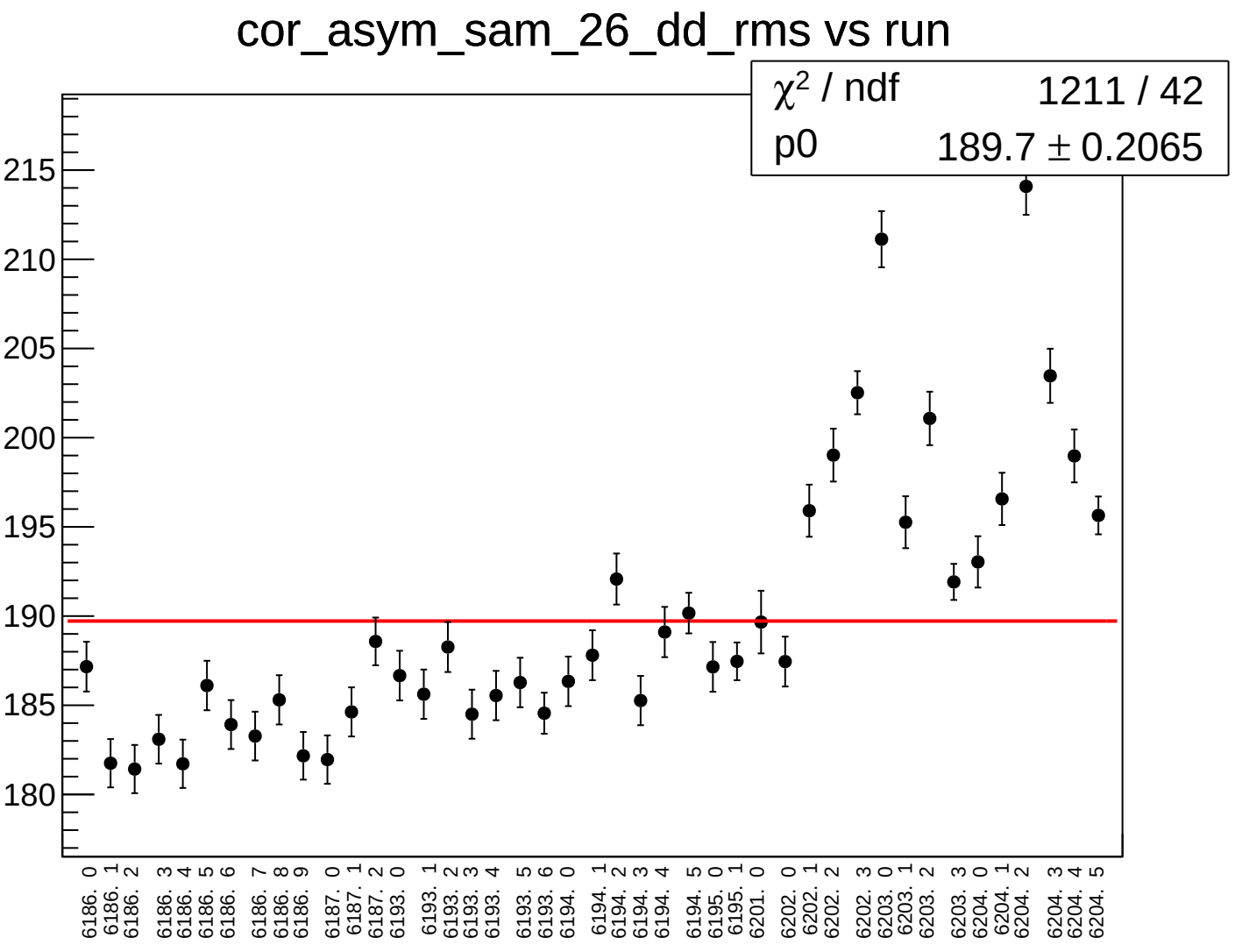

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 47.41 / 42
p0 −3235 ± 4998
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 146.2
Std Dev 0
3
2
1
0
−1
−2

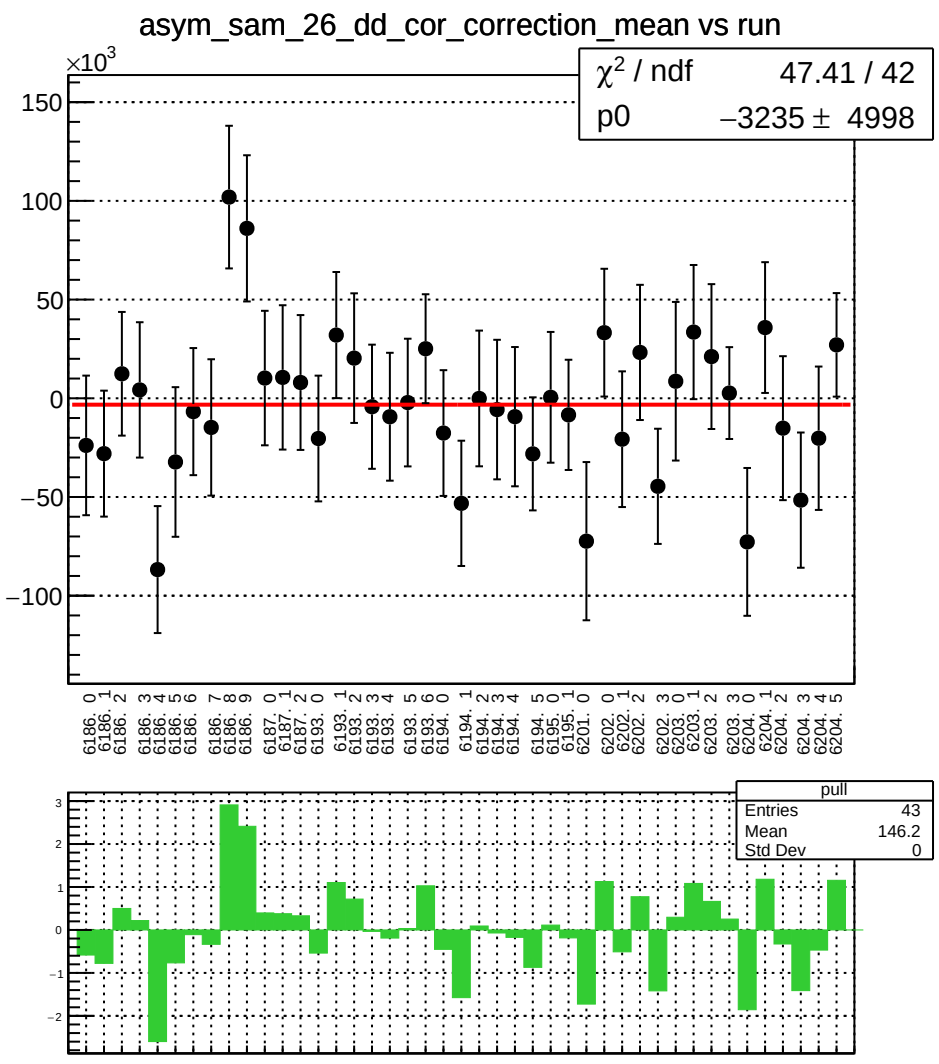

pull1D
Entries 43
Mean −0.004874
Std Dev 1.05
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

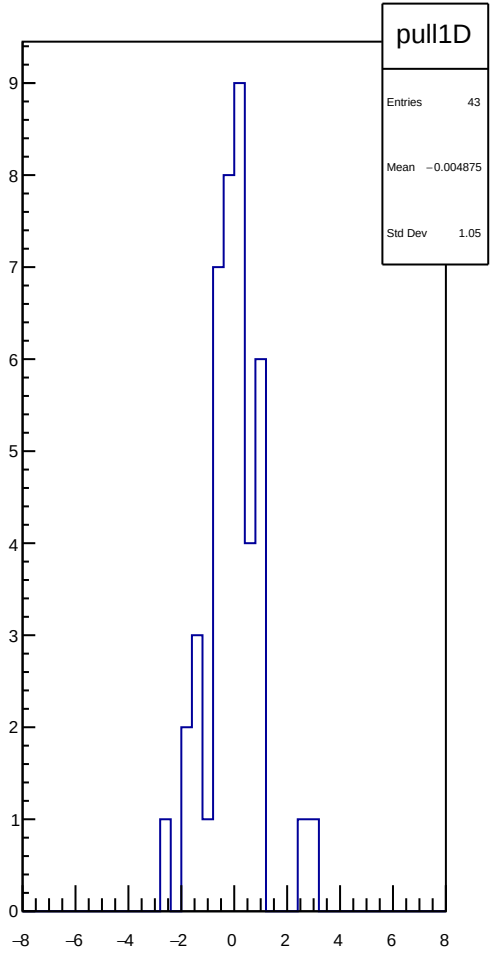

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 3004 / 42
p0 3244 ± 3.534
3800
3600
3400
3200
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

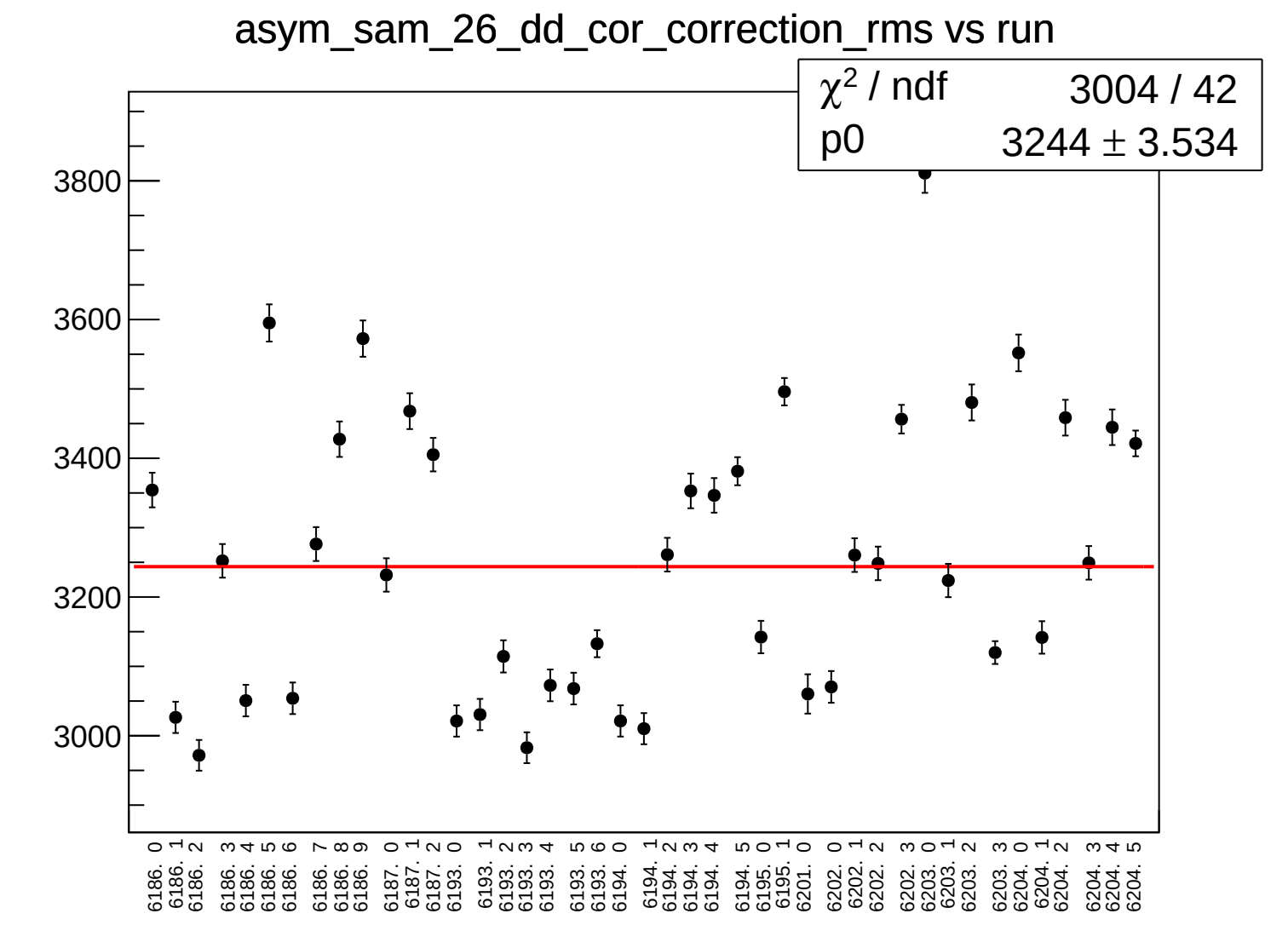

cor_asym_sam_26_dd_mean vs run
χ² / ndf 50.05 / 42
p0 −79.03 ± 292
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 489.3
Std Dev 0
3
2
1
0
−1
−2
−3

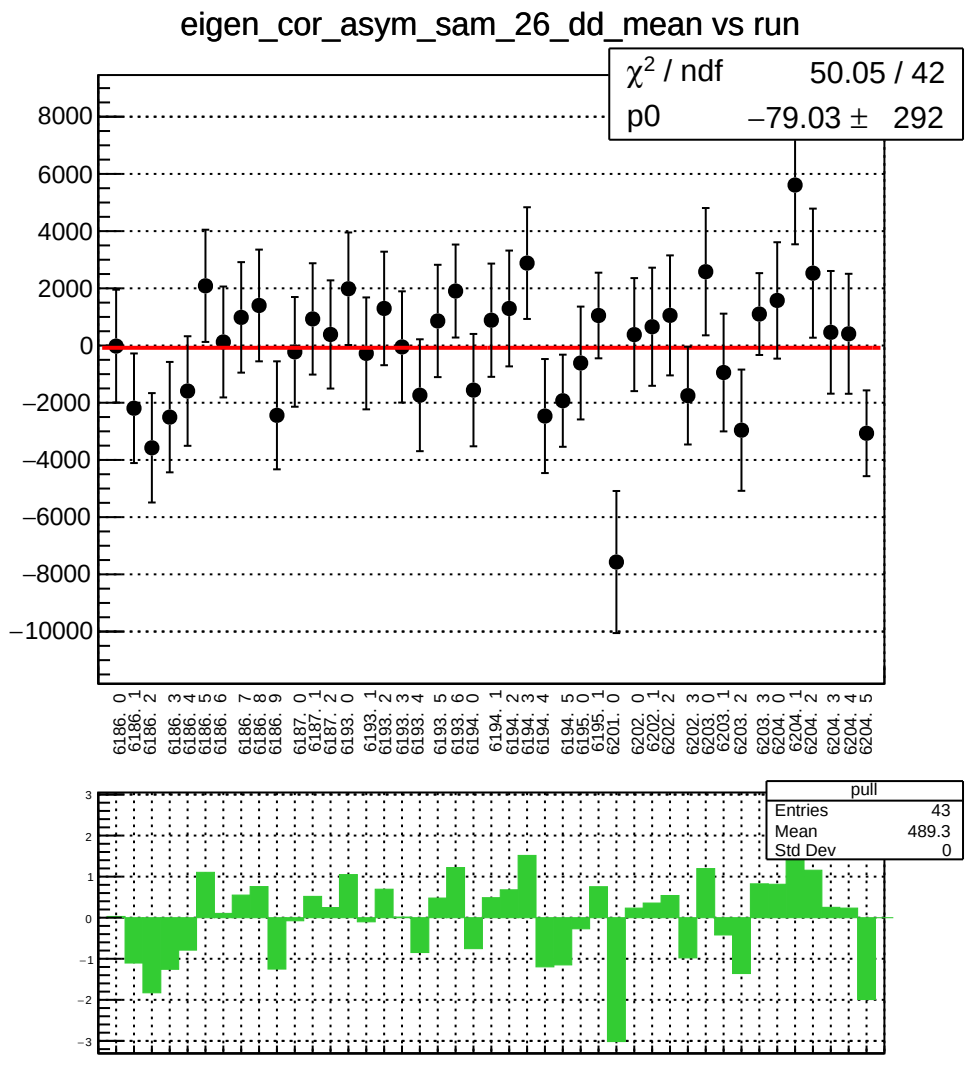

pull1D
Entries 43
Mean 0.003968
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

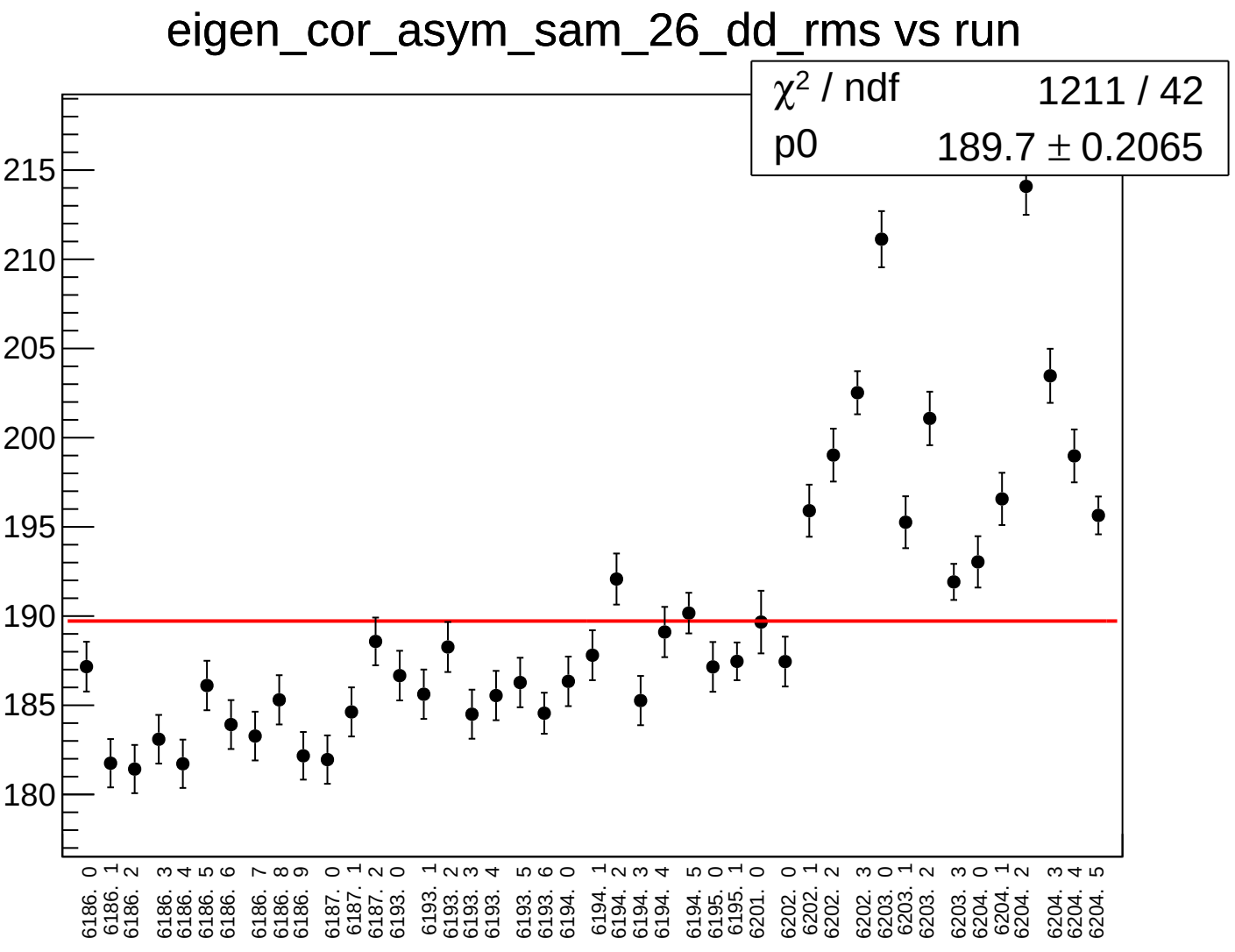

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1211 / 42
p0 189.7 ± 0.2065
215
210
205
200
195
190
185
180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

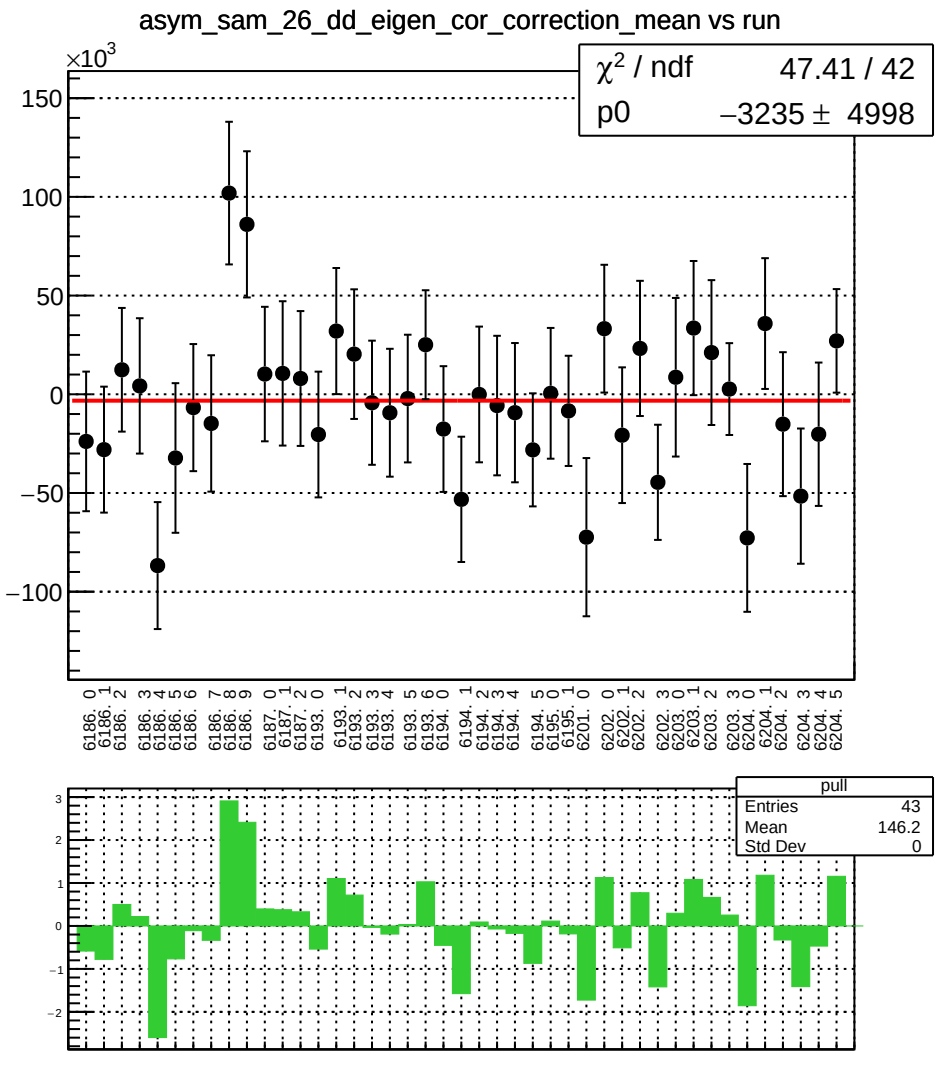

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 47.41 / 42
p0 −3235 ± 4998
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 146.2
Std Dev 0
3
2
1
0
−1
−2

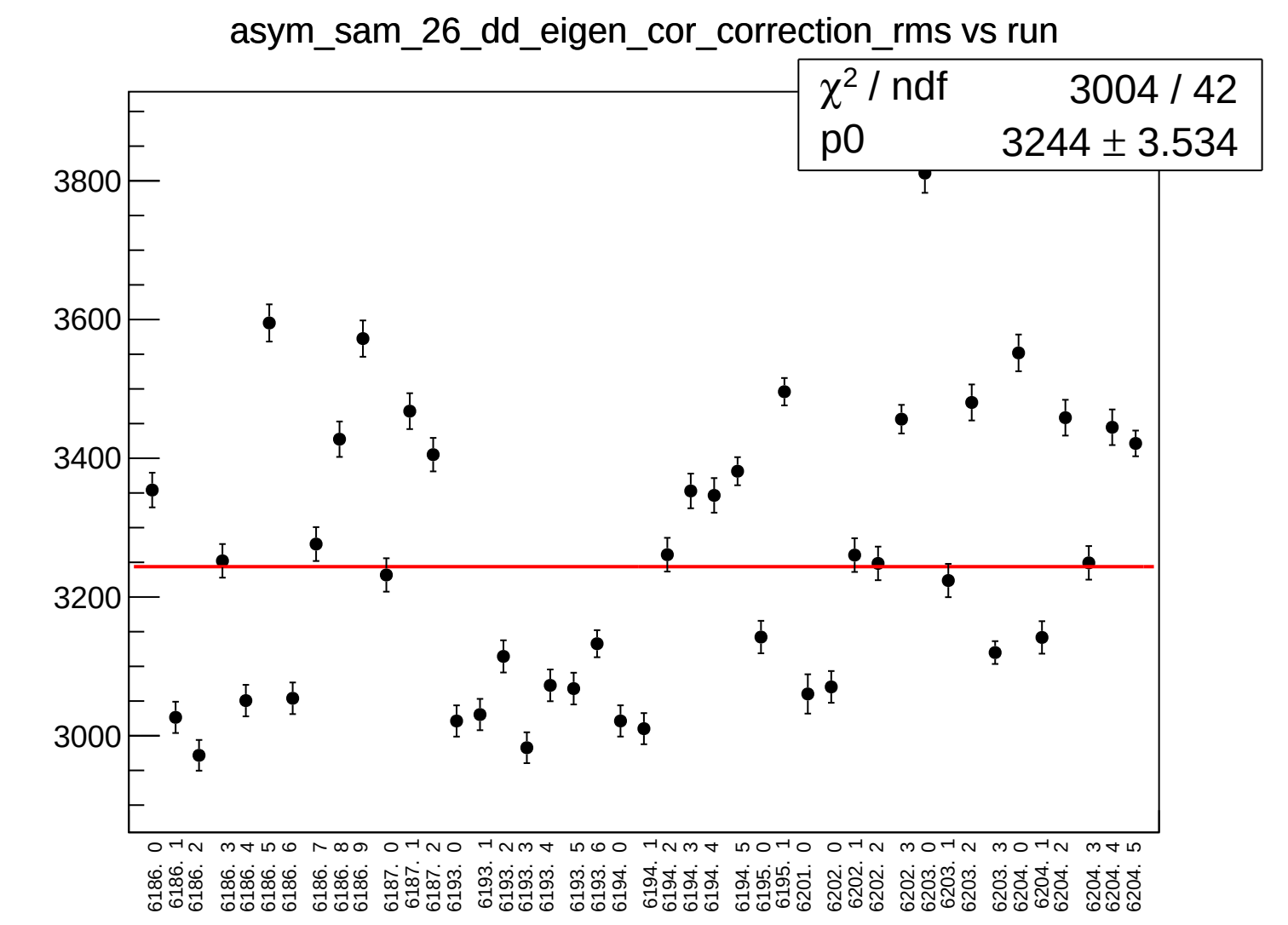

pull1D
Entries 43
Mean −0.004875
Std Dev 1.05
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 3004 / 42
p0 3244 ± 3.534
3800
3600
3400
3200
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 50.05 / 42
p0 −79.03 ± 292
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 489.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.003968
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1211 / 42
p0 189.7 ± 0.2065
215
210
205
200
195
190
185
180
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 47.41 / 42
p0 −3235 ± 4998
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 146.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.004875
Std Dev 1.05
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3004 / 42
p0 3244 ± 3.534
3800
3600
3400
3200
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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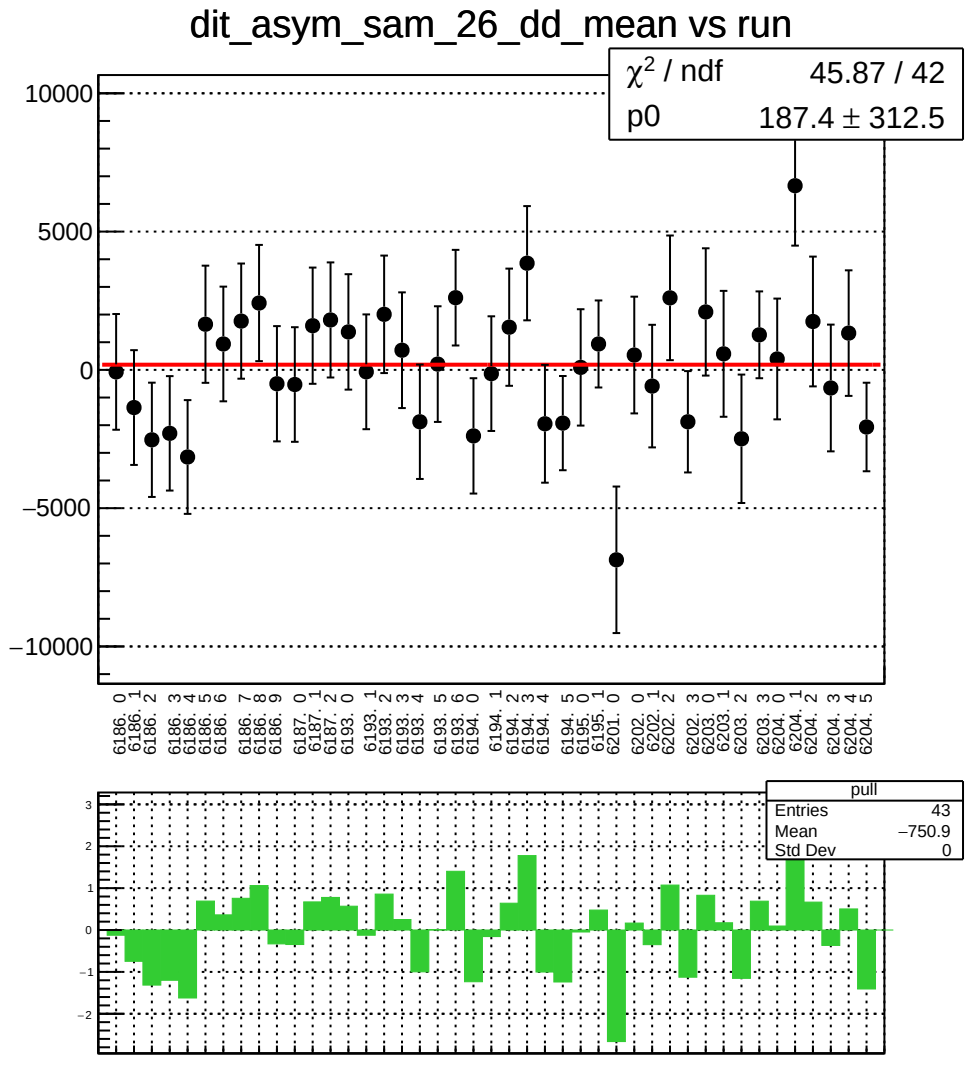
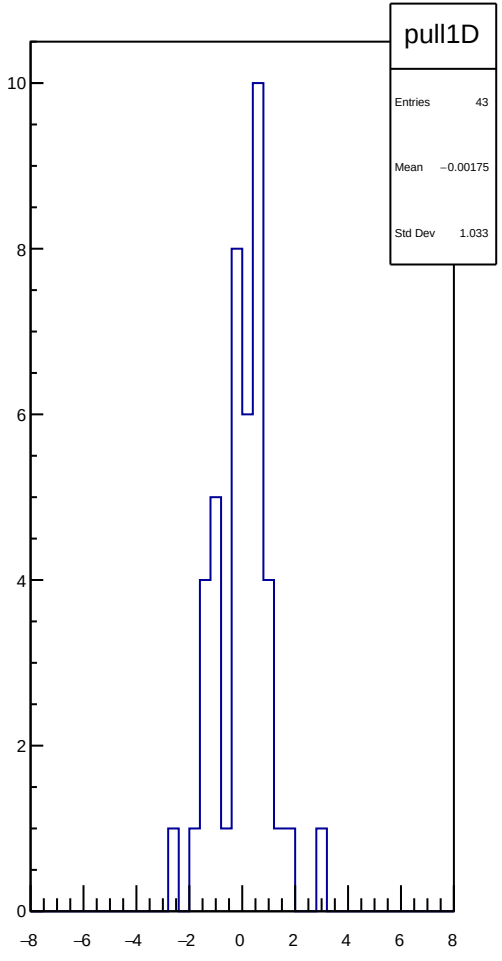
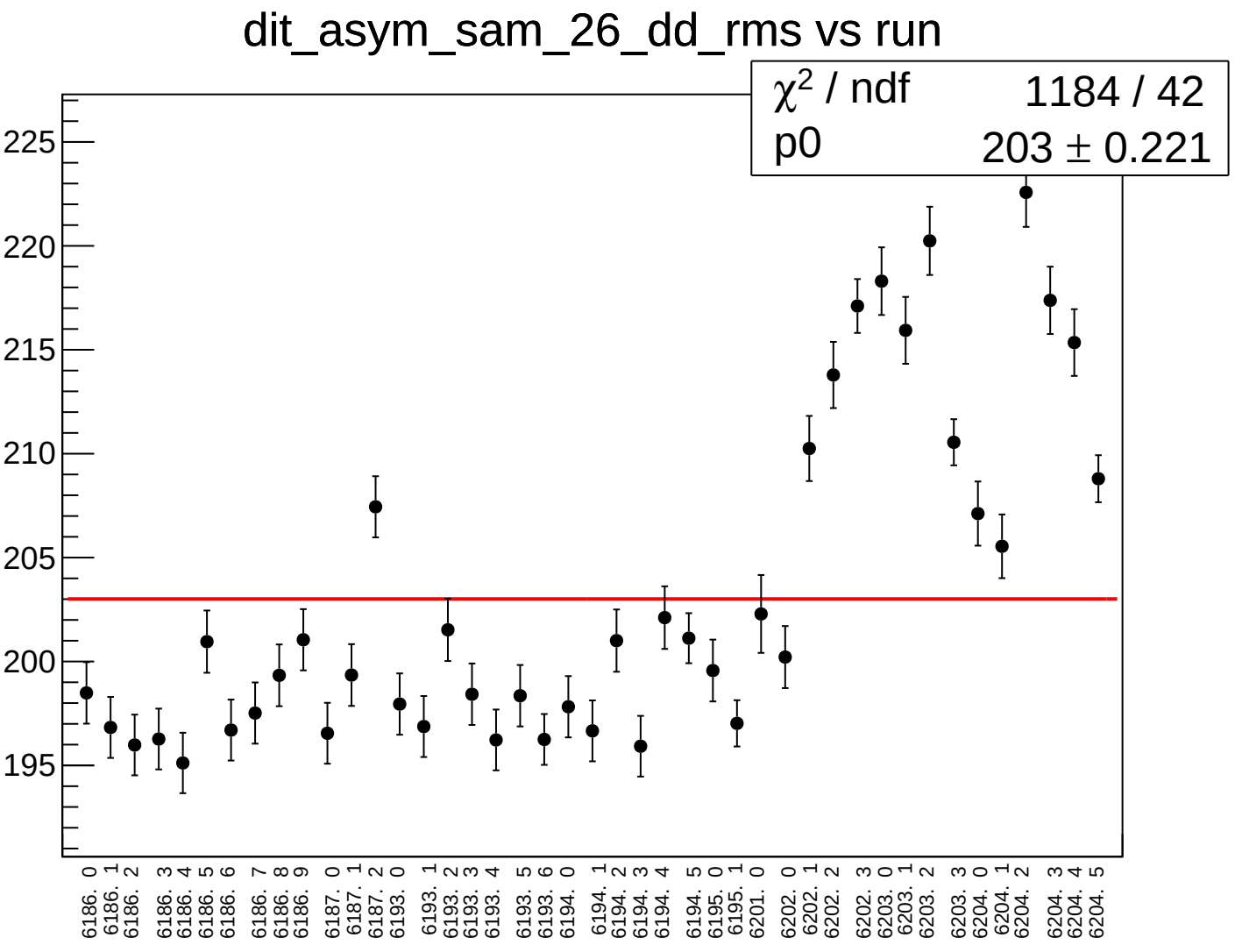
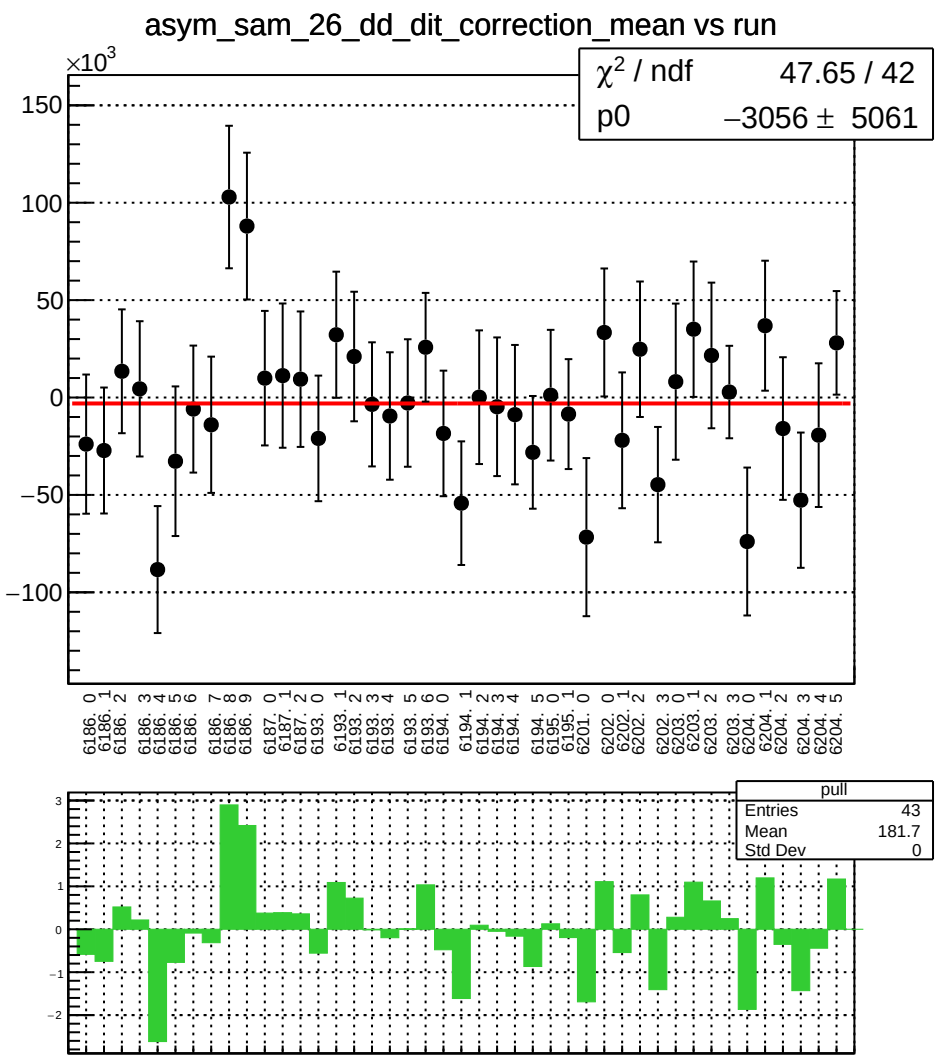
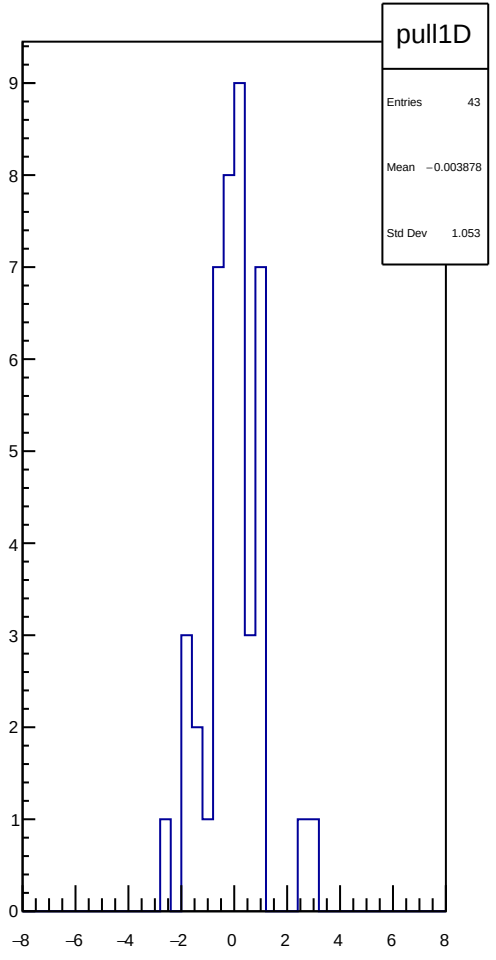
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

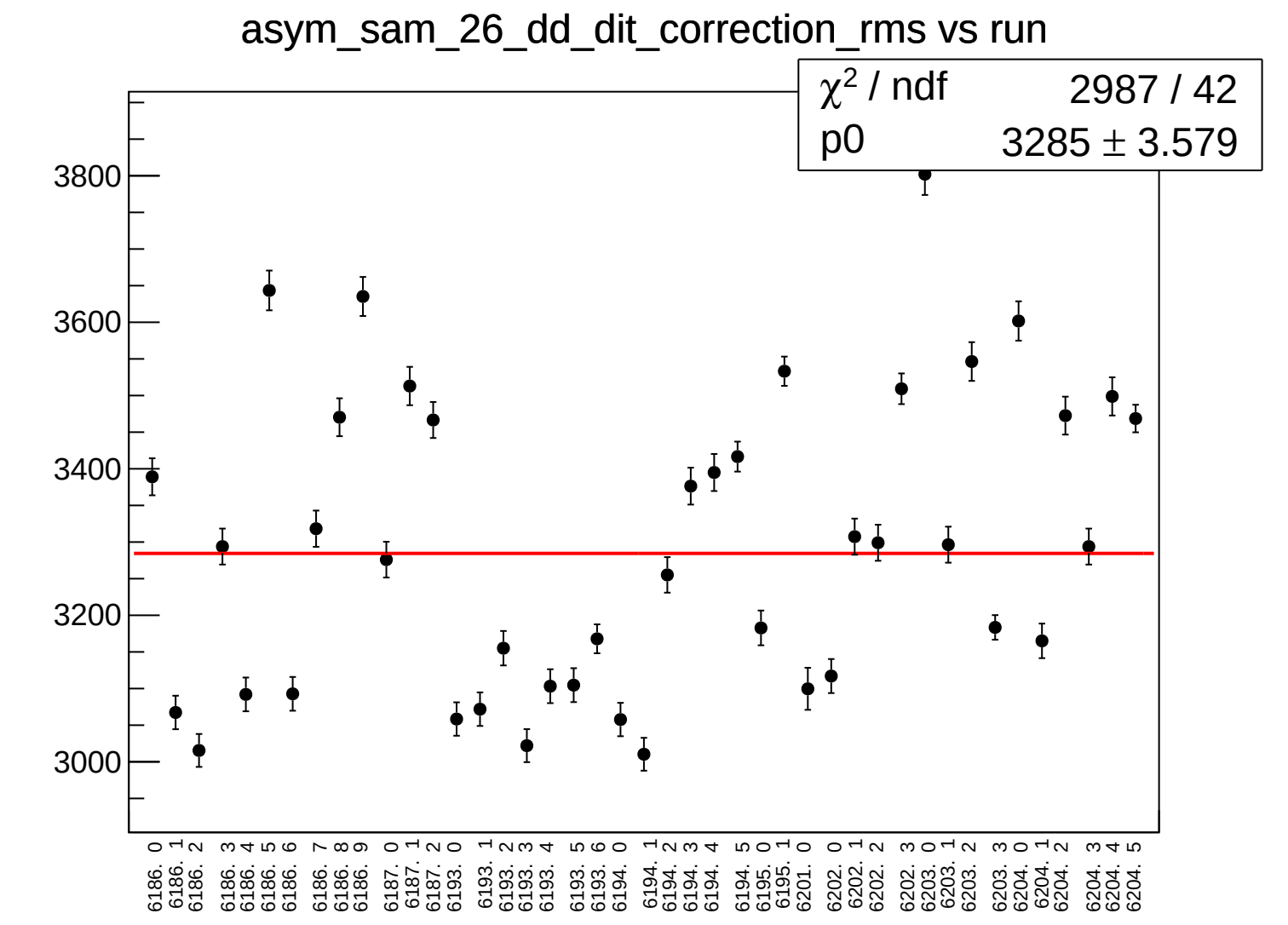

dit_asym_sam_26_dd_mean vs run
χ² / ndf 45.87 / 42
p0 187.4 ± 312.5
10000
5000
0
−5000
−10000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −750.9
Std Dev 0
3
2
1
0
−1
−2

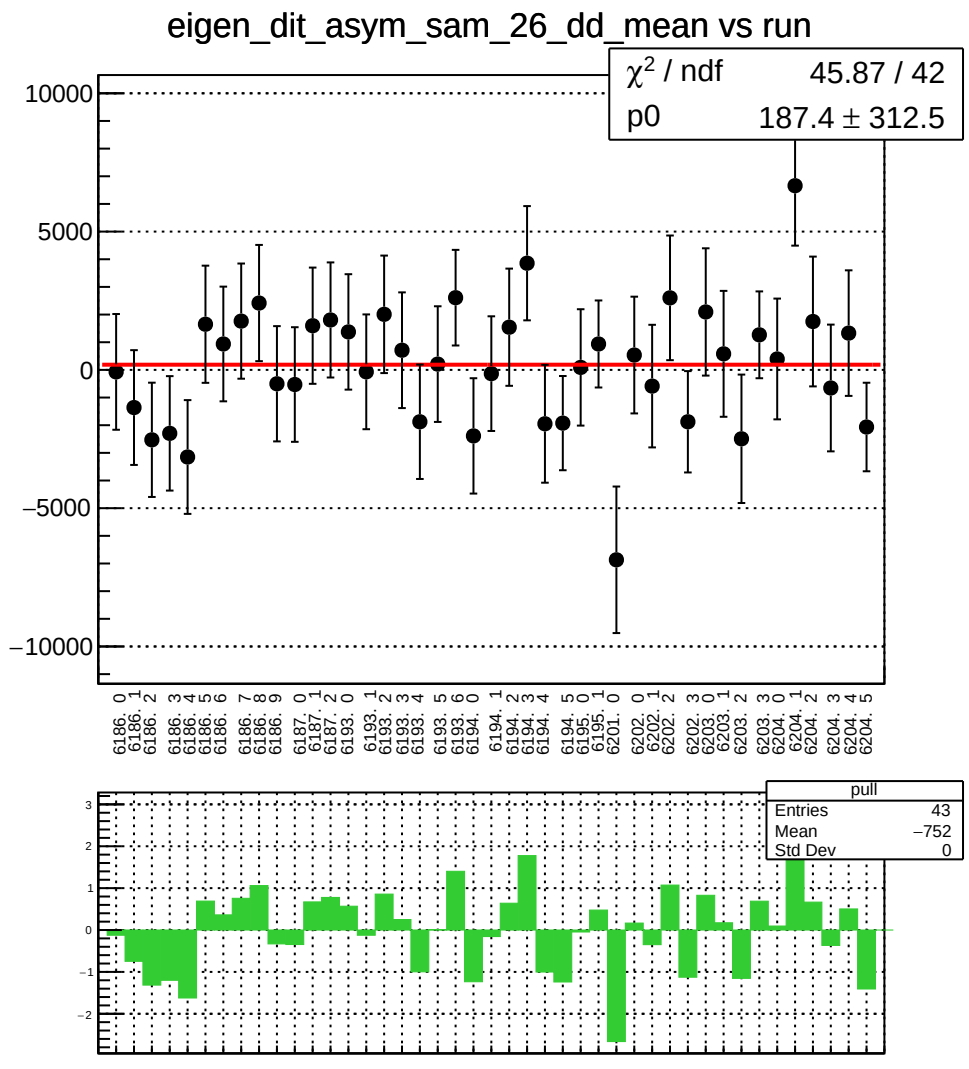

pull1D
Entries 43
Mean −0.00175
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

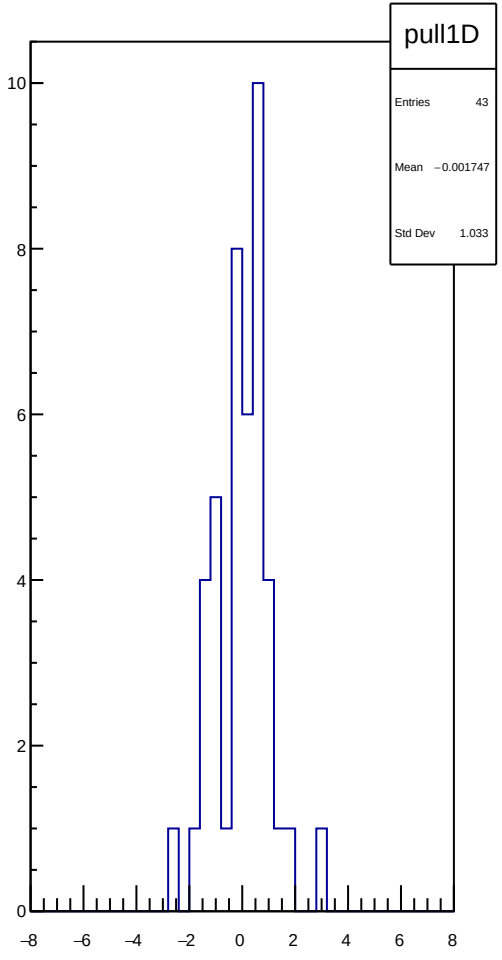

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1184 / 42
p0 203 ± 0.221
225
220
215
210
205
200
195
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

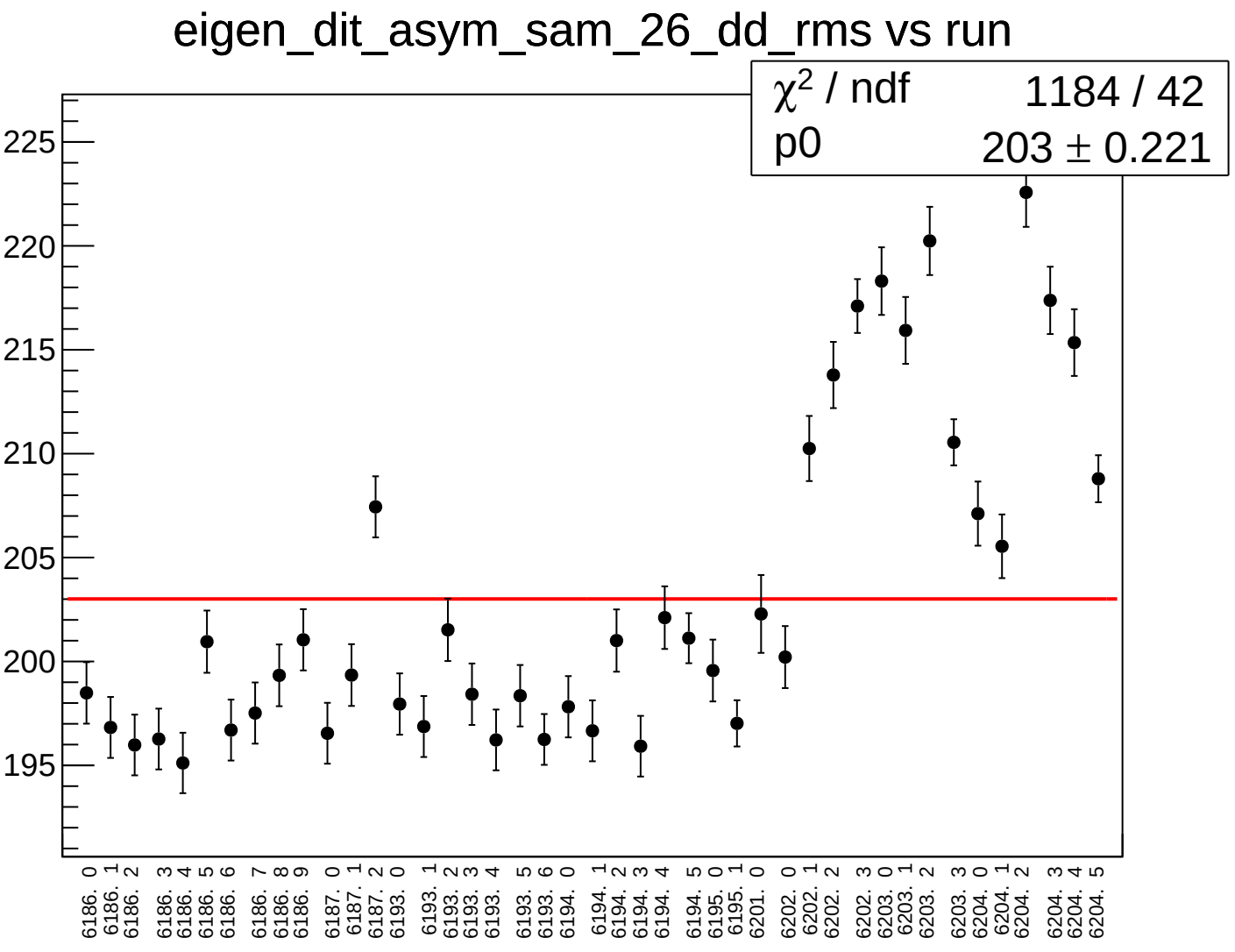

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 47.65 / 42
p0 −3056 ± 5061
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 181.7
Std Dev 0
3
2
1
0
−1
−2

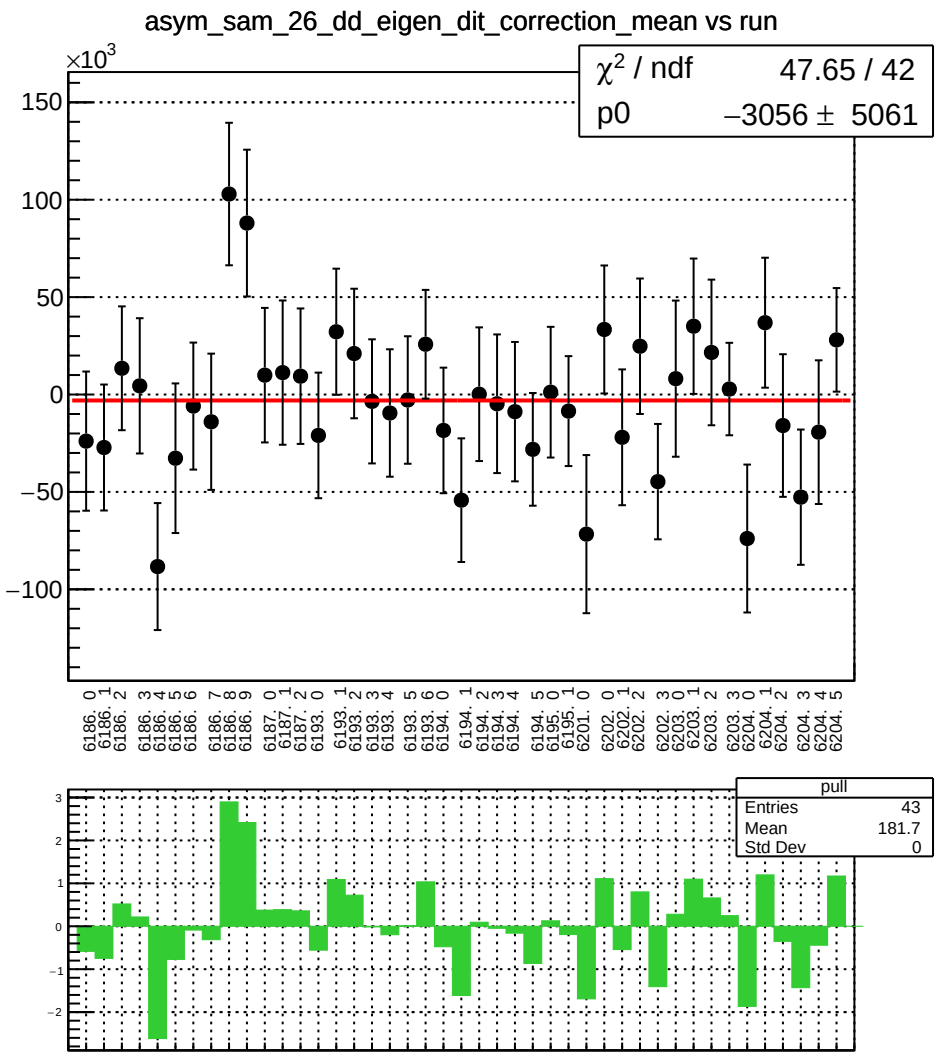

pull1D
Entries 43
Mean −0.003878
Std Dev 1.053
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

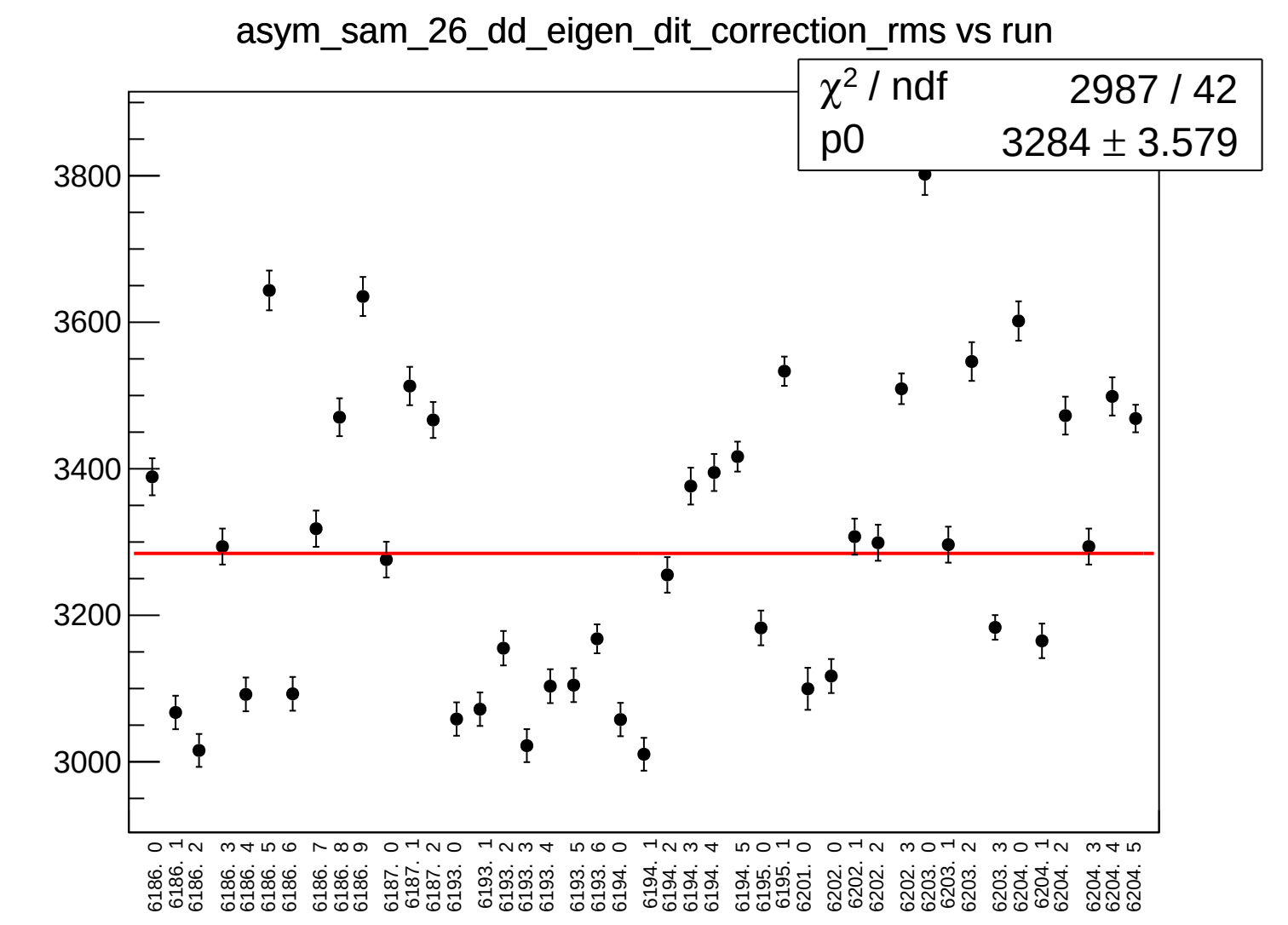

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 2987 / 42
p0 3285 ± 3.579
3800
3600
3400
3200
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

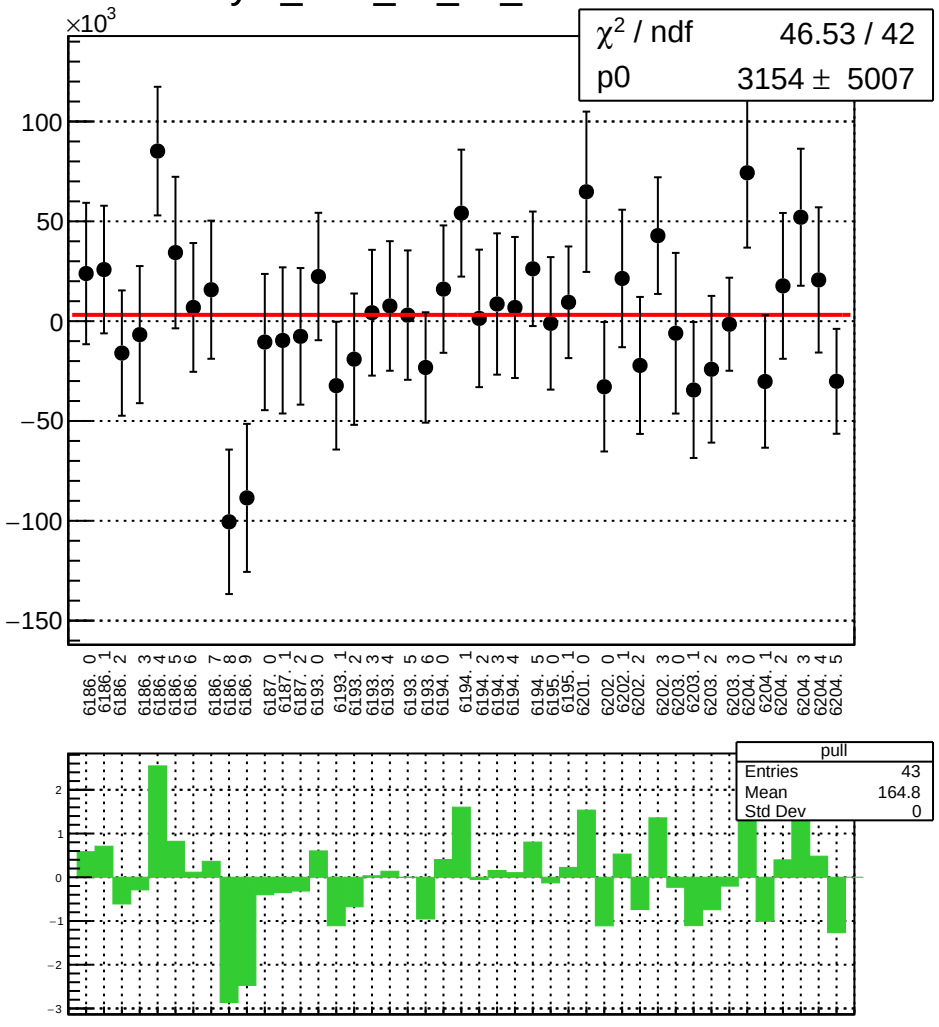

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 45.87 / 42
p0 187.4 ± 312.5
10000
5000
0
−5000
−10000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −752
Std Dev 0
3
2
1
0
−1
−2

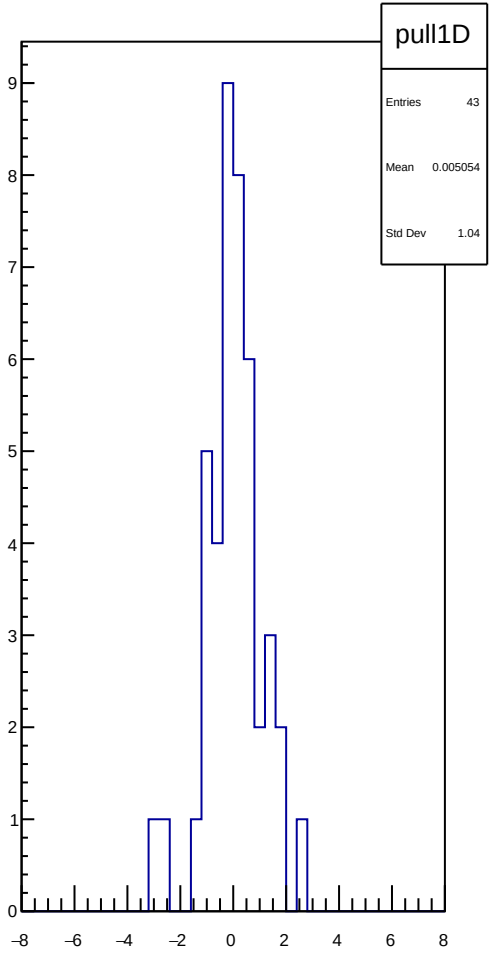

pull1D
Entries 43
Mean −0.001747
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

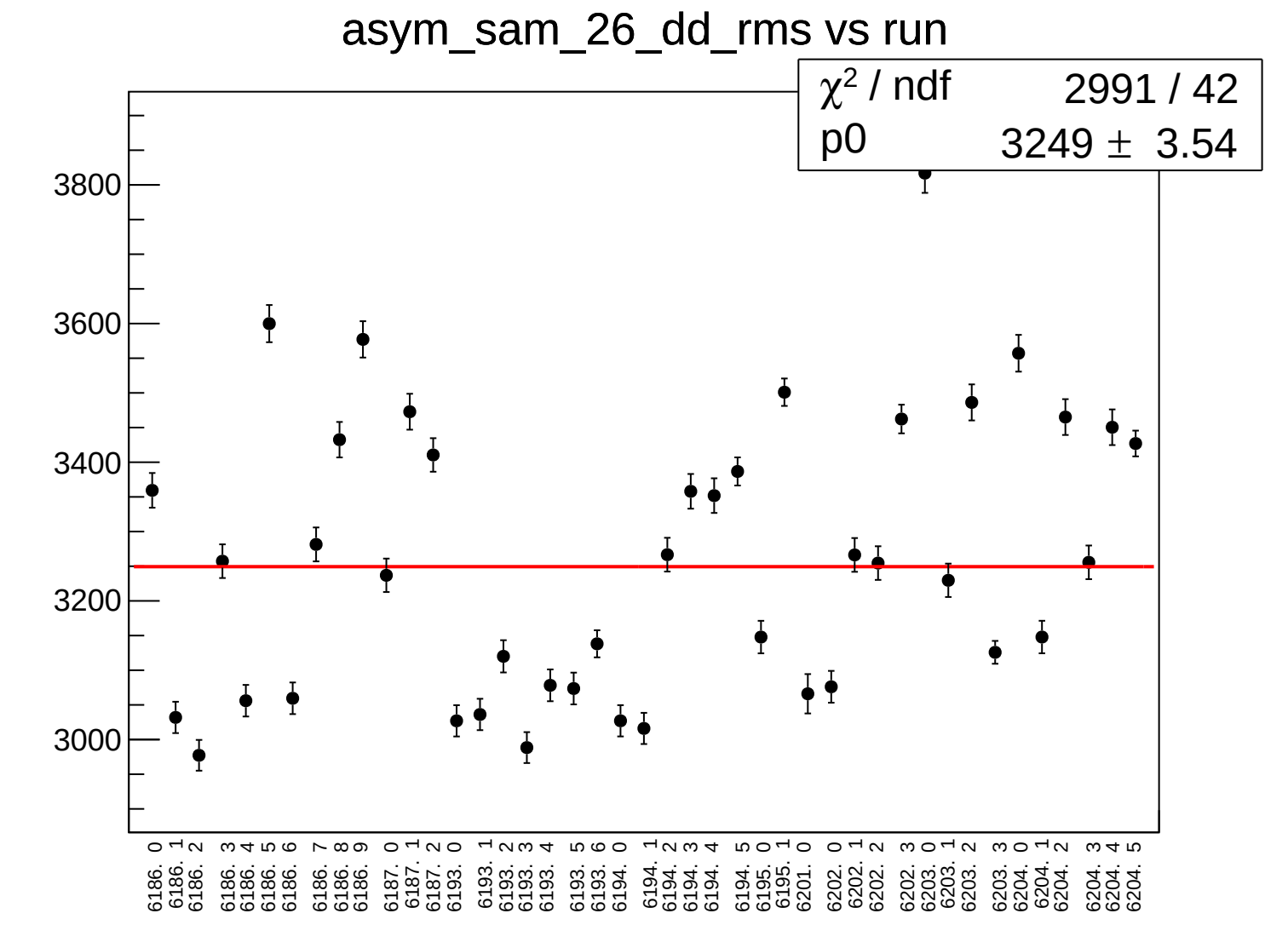

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1184 / 42
p0 203 ± 0.221
225
220
215
210
205
200
195
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

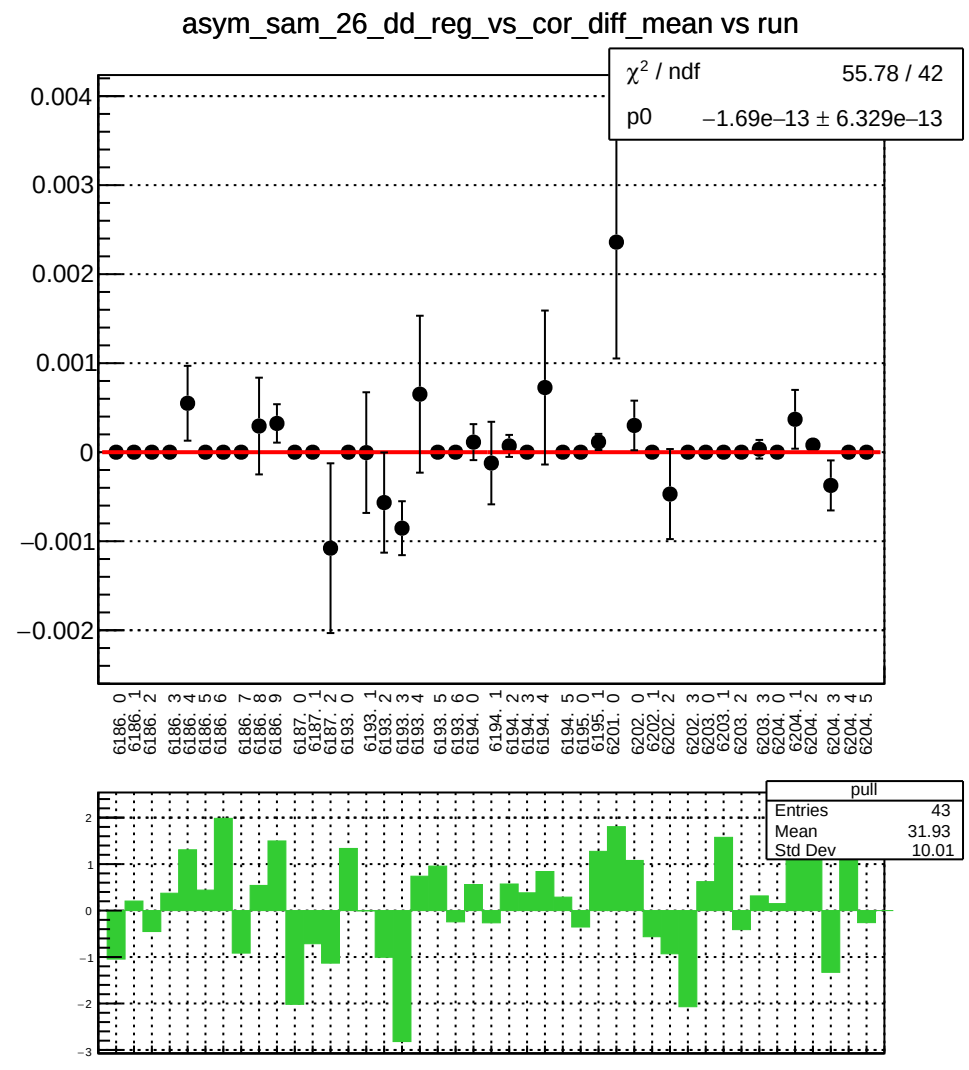

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 47.65 / 42
p0 −3056 ± 5061
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 181.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.003878
Std Dev 1.053
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

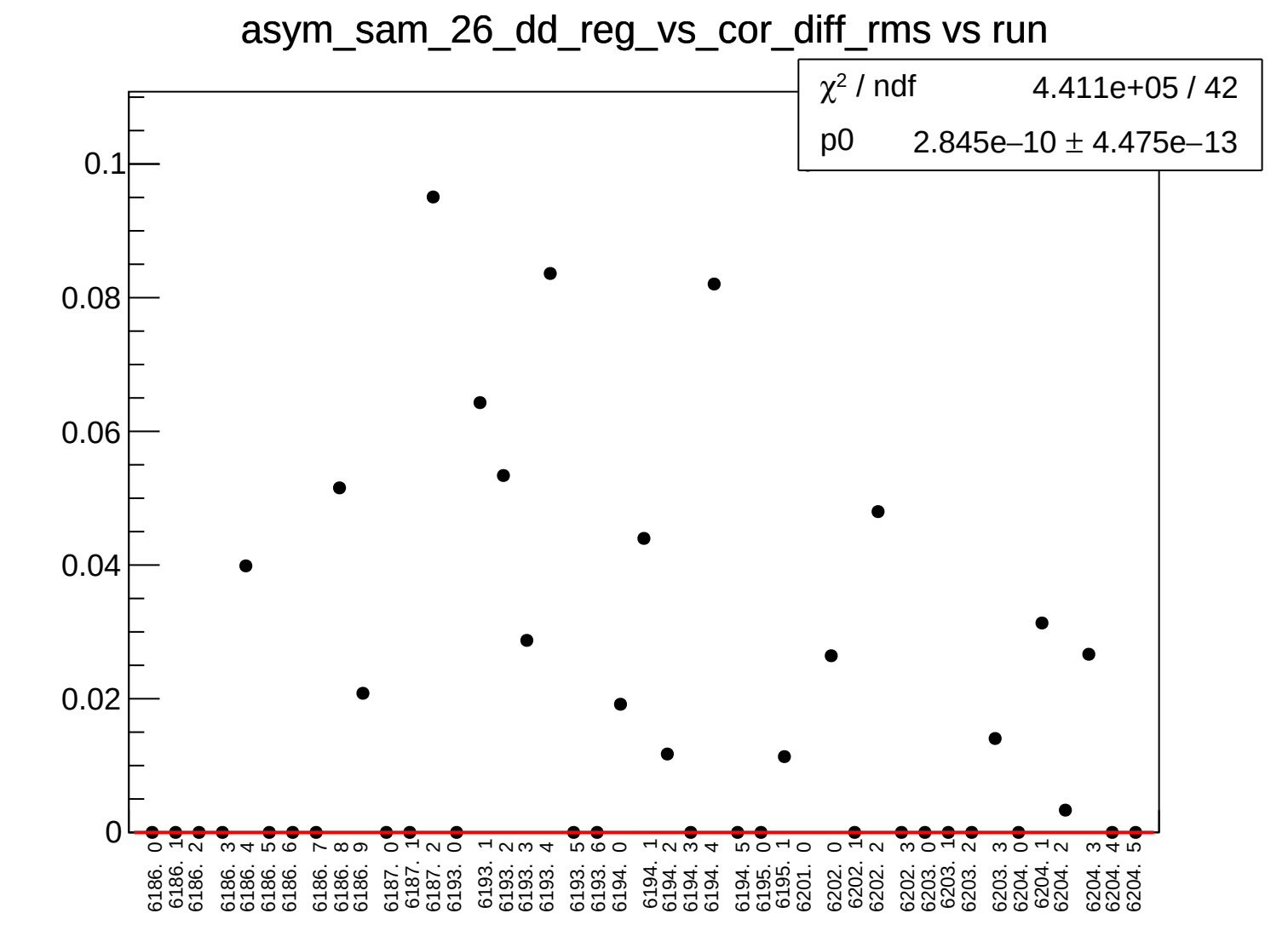

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2987 / 42
p0 3284 ± 3.579
3800
3600
3400
3200
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

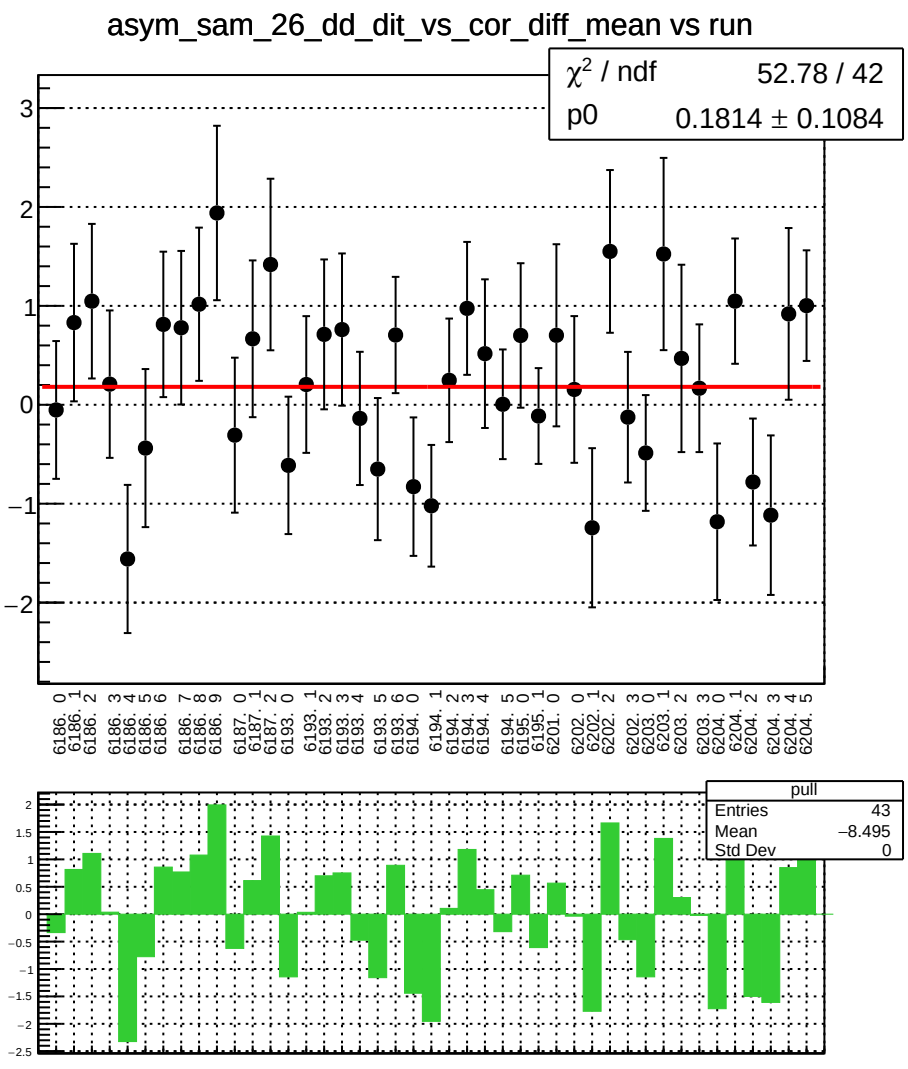

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 46.53 / 42
p0 3154 ± 5007
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 164.8
Std Dev 0
2
1
0
−1
−2
−3

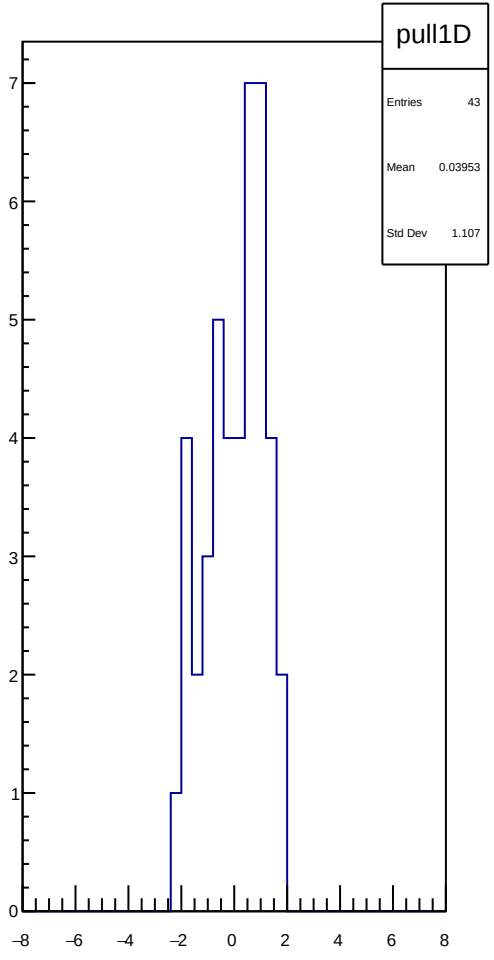

pull1D
Entries 43
Mean 0.005054
Std Dev 1.04
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

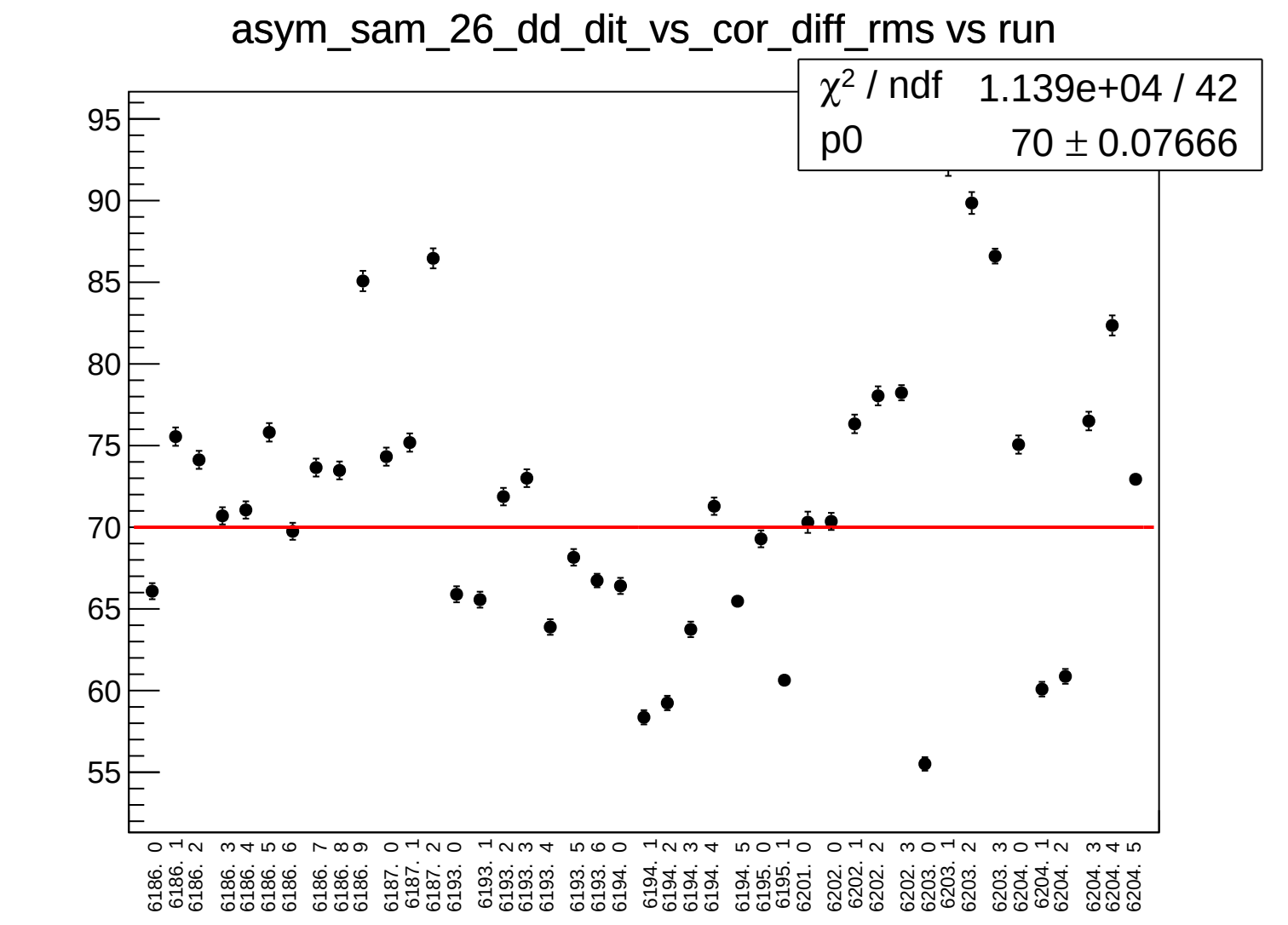

asym_sam_26_dd_rms vs run
χ² / ndf 2991 / 42
p0 3249 ± 3.54
3800
3600
3400
3200
3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

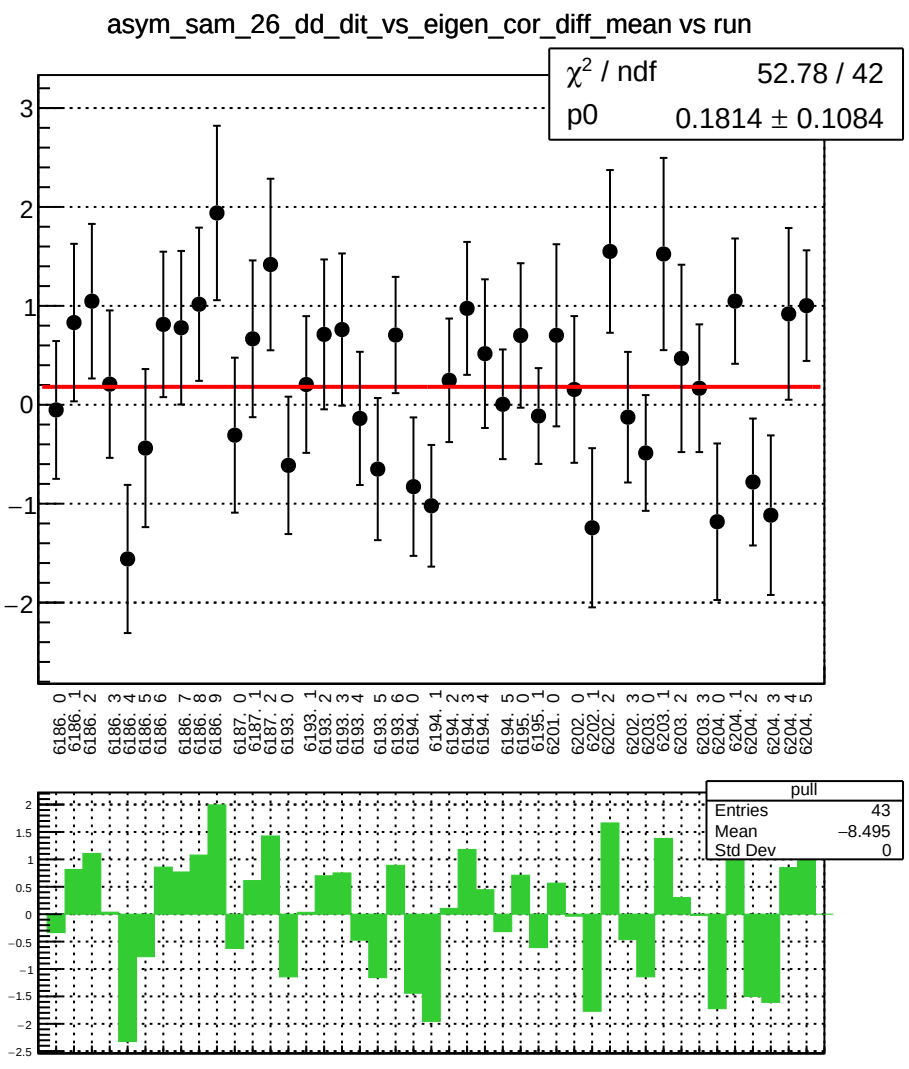

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 55.78 / 42
p0 −1.69e−13 ± 6.329e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 31.93
Std Dev 10.01
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.168
Std Dev 1.126
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

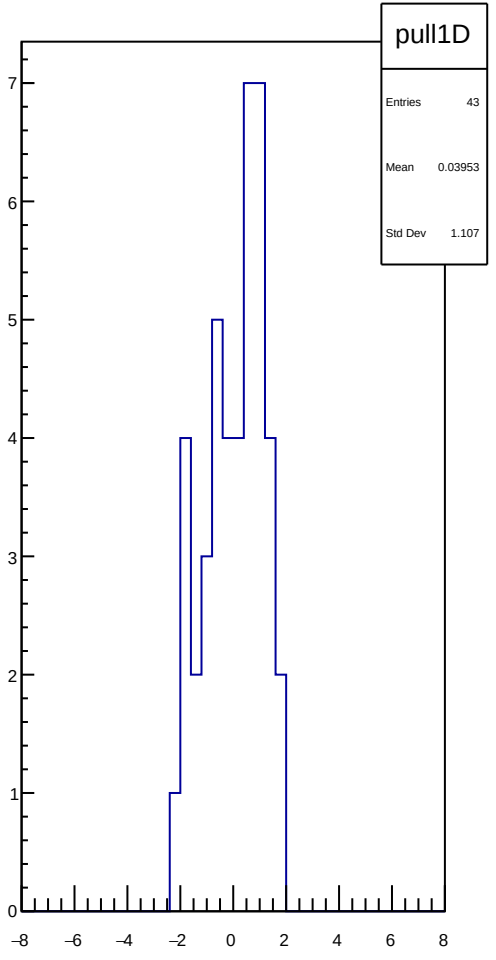

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.411e+05 / 42
p0 2.845e−10 ± 4.475e−13
0.1
0.08
0.06
0.04
0.02
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

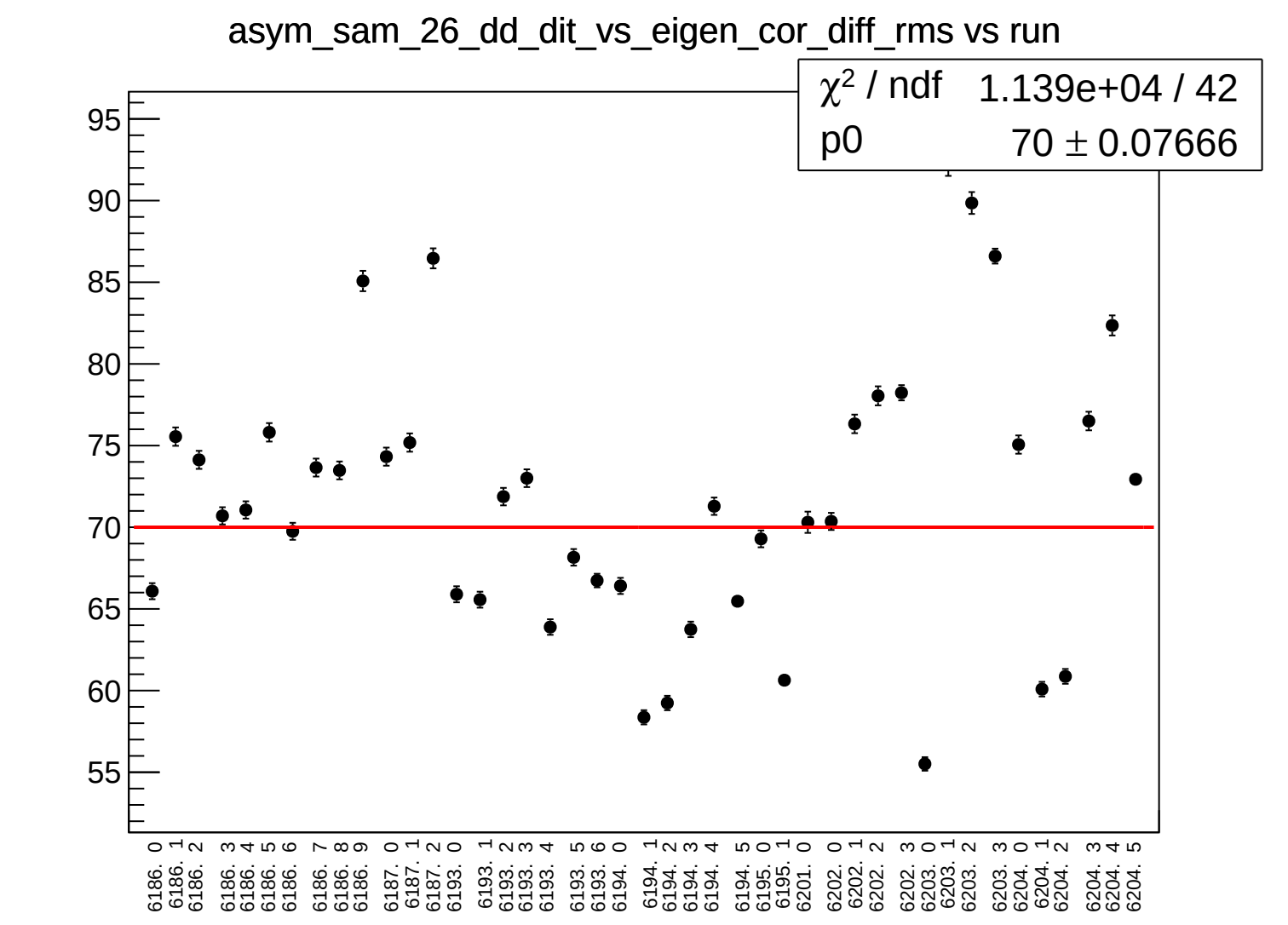

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 52.78 / 42
p0 0.1814 ± 0.1084
pull
Entries 43
Mean −8.495
Std Dev 0

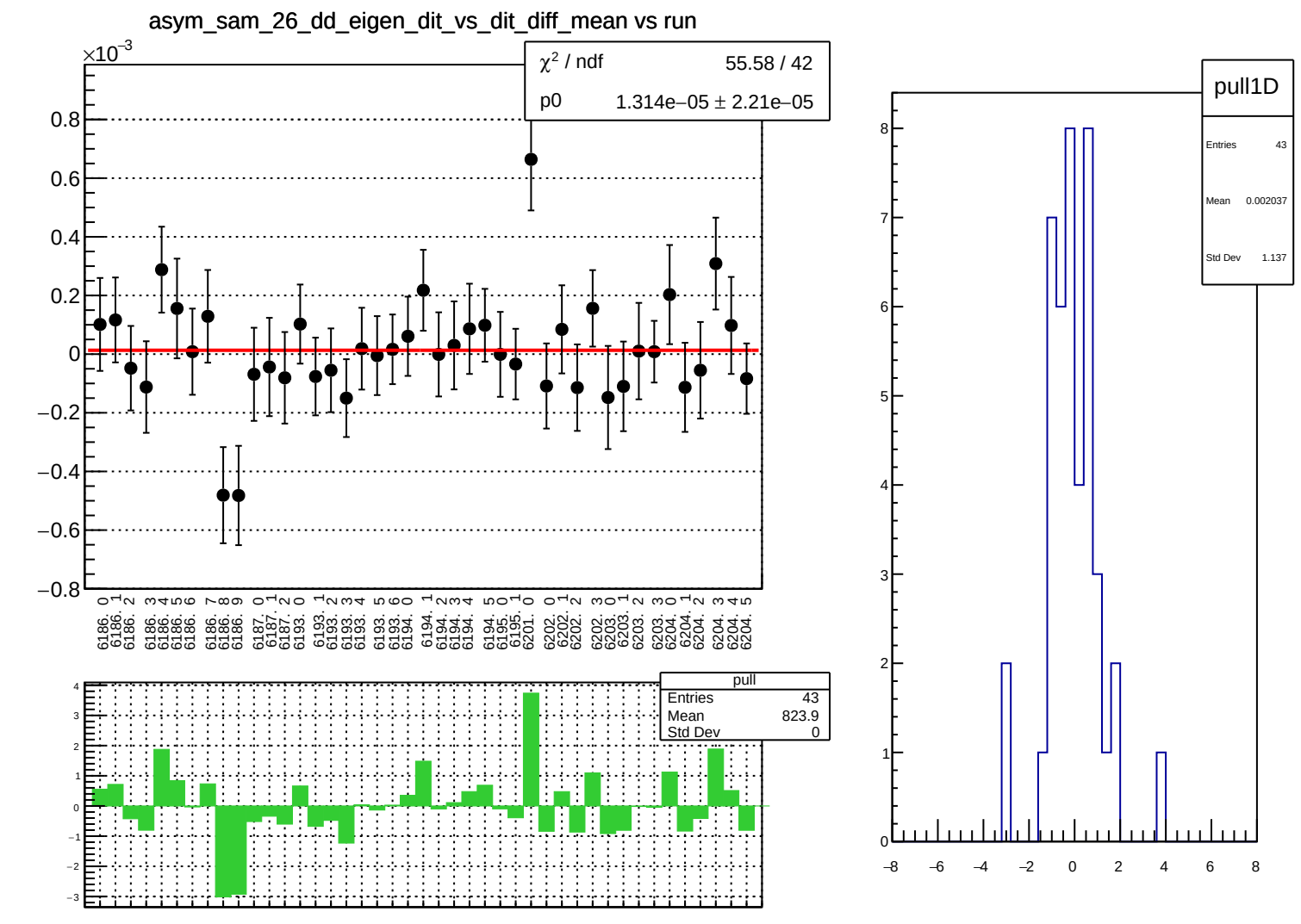

pull1D
Entries 43
Mean 0.03953
Std Dev 1.107

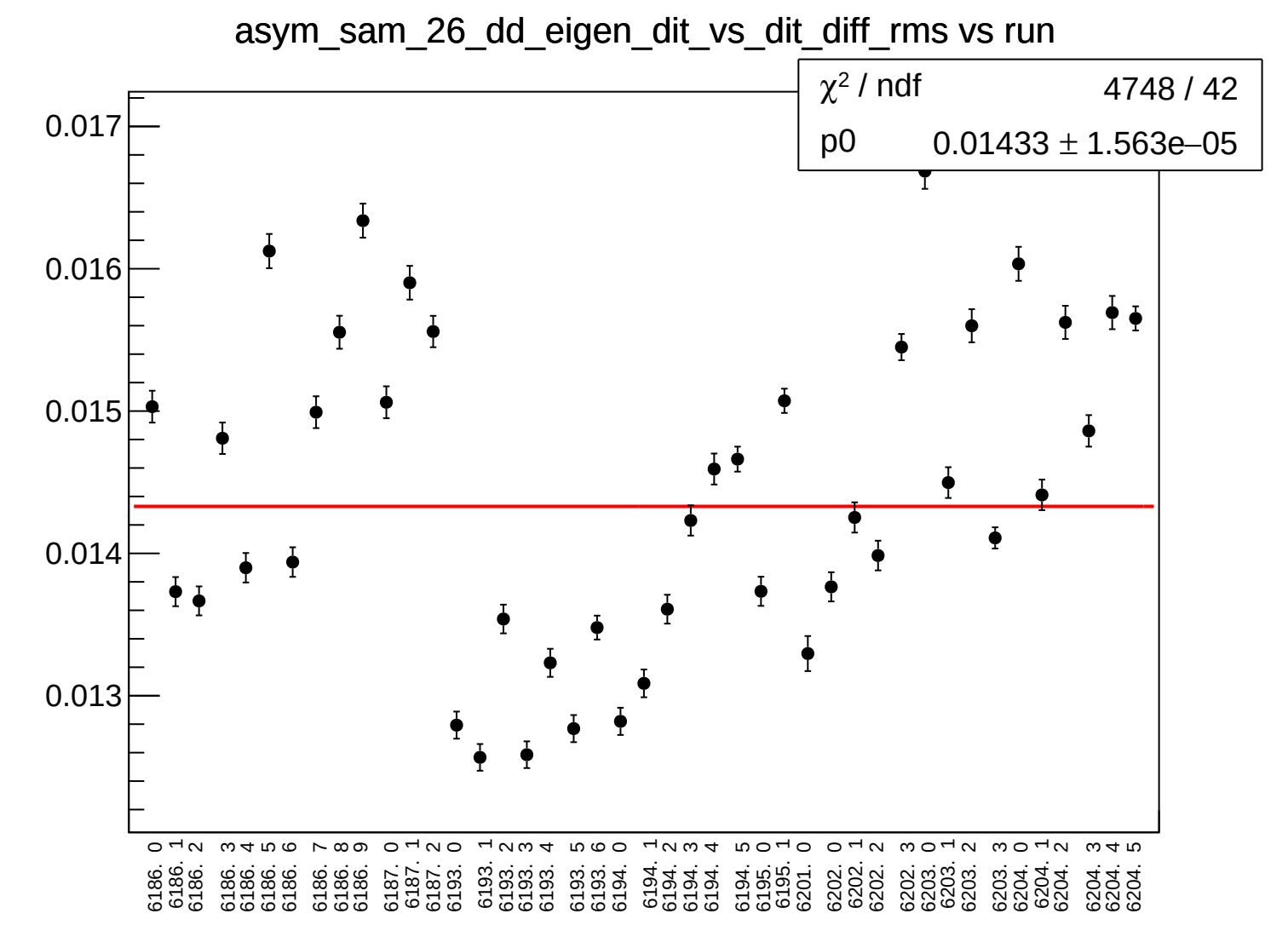

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.139e+04 / 42
p0 70 ± 0.07666
95
90
85
80
75
70
65
60
55
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

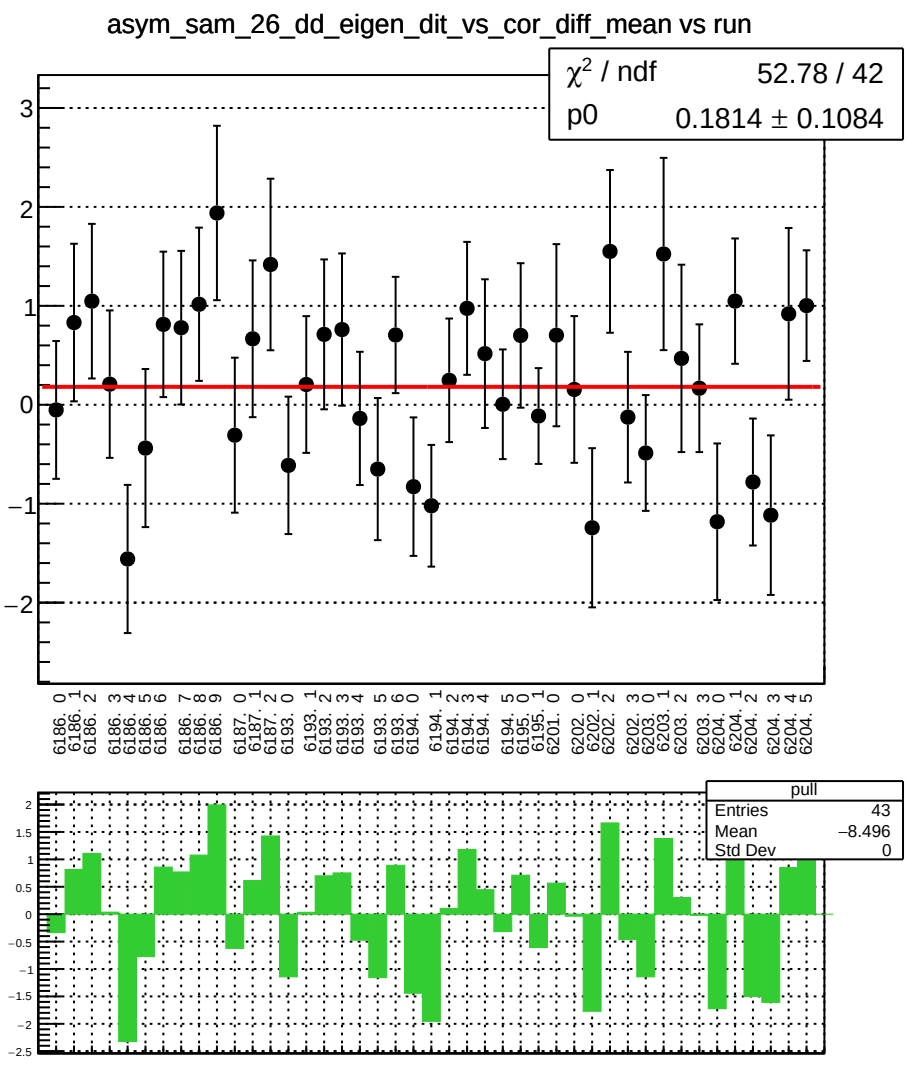

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.78 / 42
p0 0.1814 ± 0.1084
pull
Entries 43
Mean −8.495
Std Dev 0

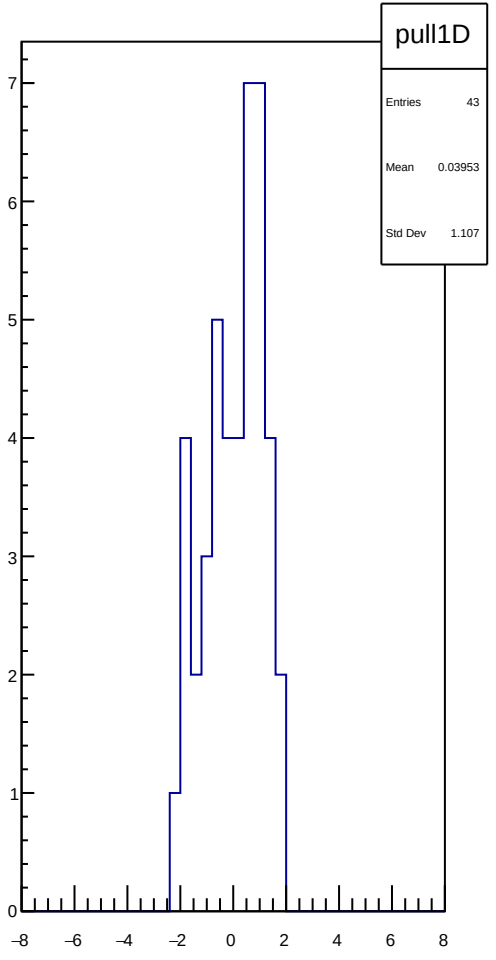

pull1D
Entries 43
Mean 0.03953
Std Dev 1.107

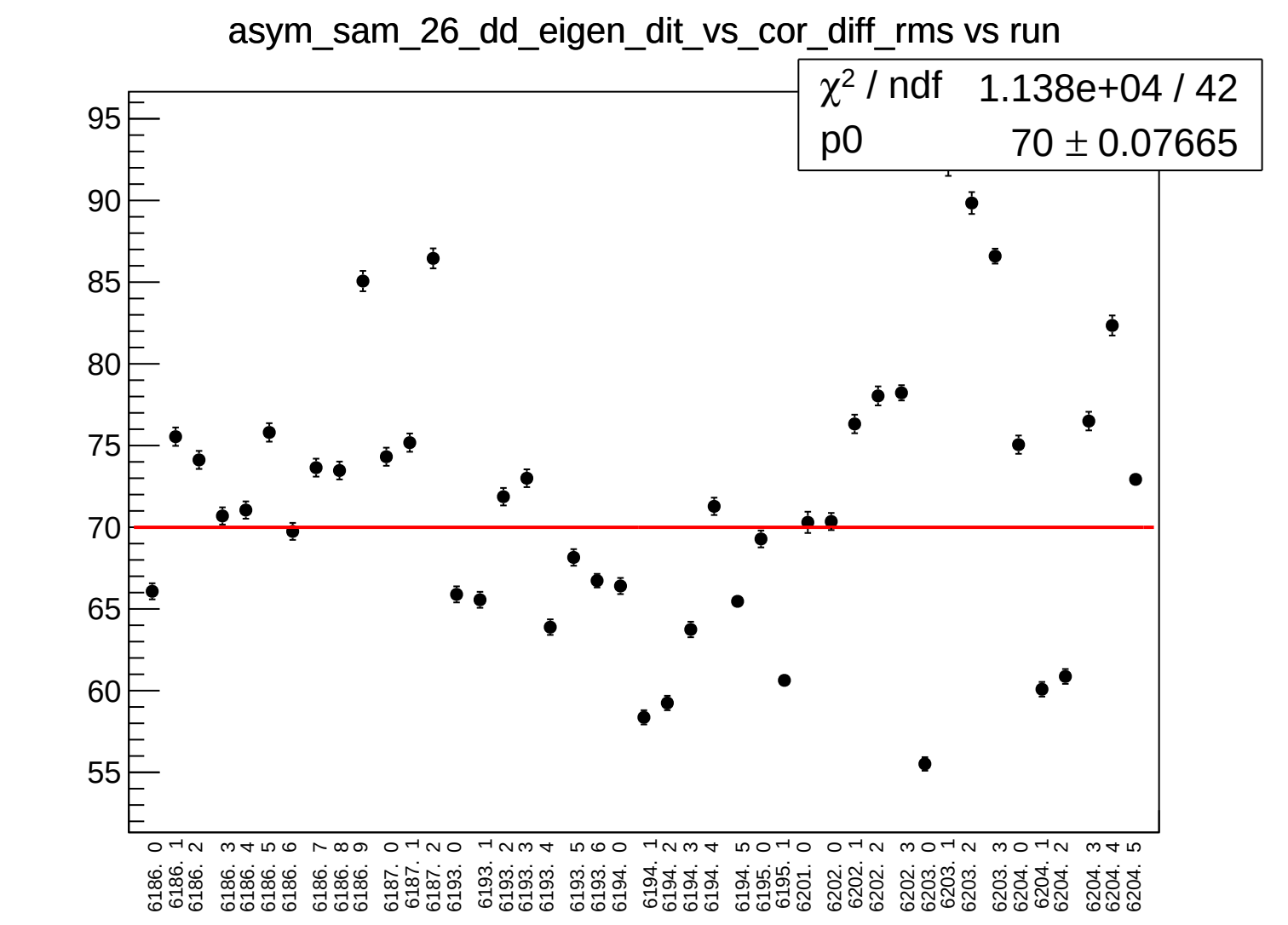

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.139e+04 / 42
p0 70 ± 0.07666
95
90
85
80
75
70
65
60
55
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

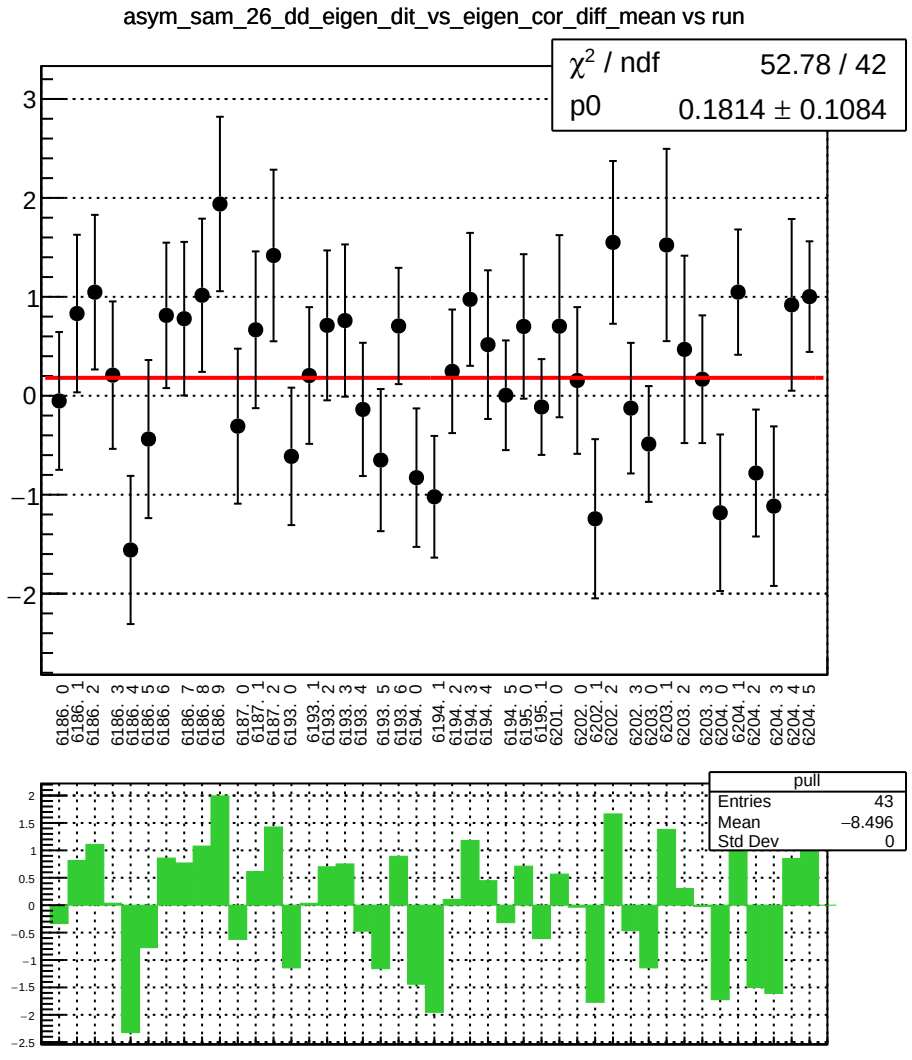

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 55.58 / 42
p0 1.314e−05 ± 2.21e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 823.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.002037
Std Dev 1.137
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

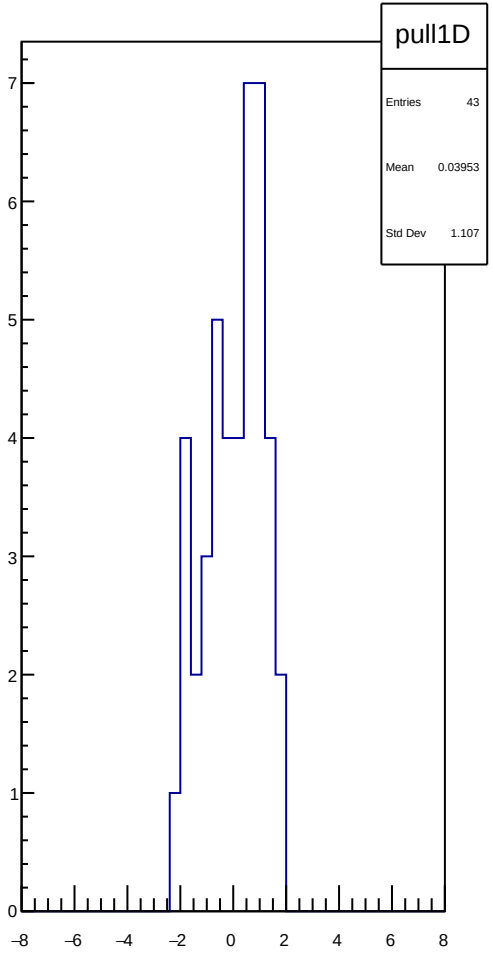

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4748 / 42
p0 0.01433 ± 1.563e–05
0.017
0.016
0.015
0.014
0.013
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

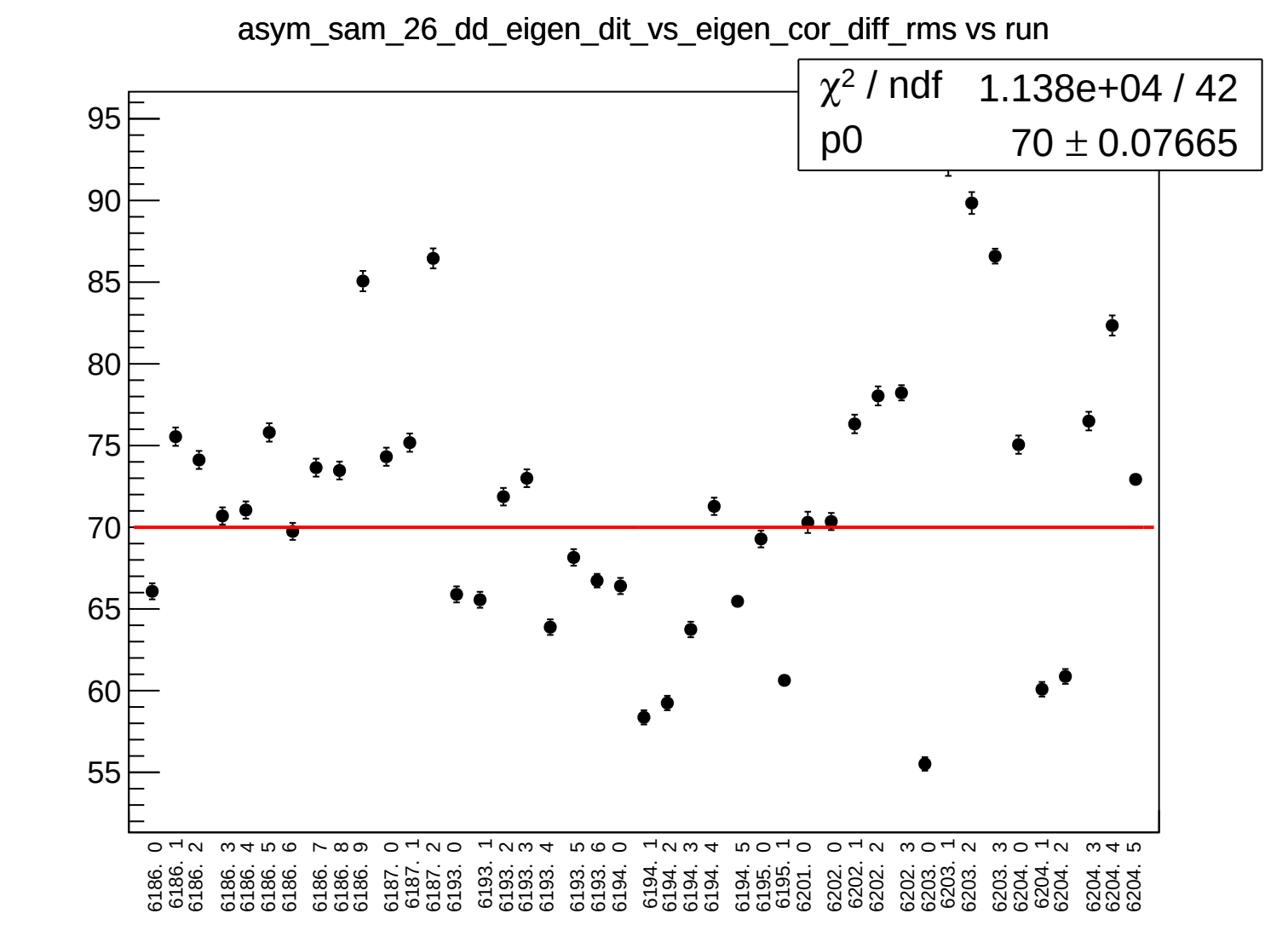

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 52.78 / 42
p0 0.1814 ± 0.1084
pull
Entries 43
Mean −8.496
Std Dev 0

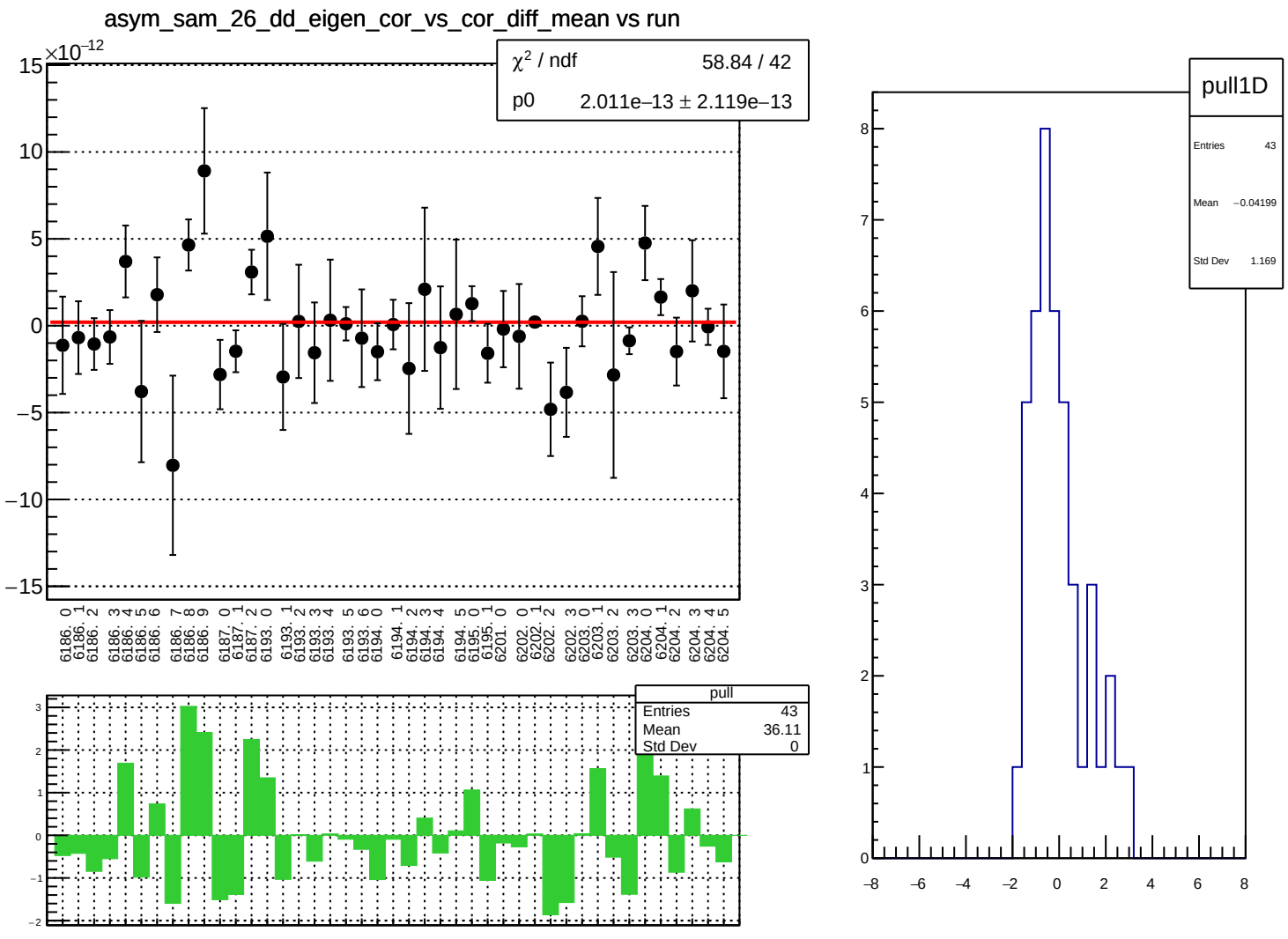

pull1D
Entries 43
Mean 0.03953
Std Dev 1.107

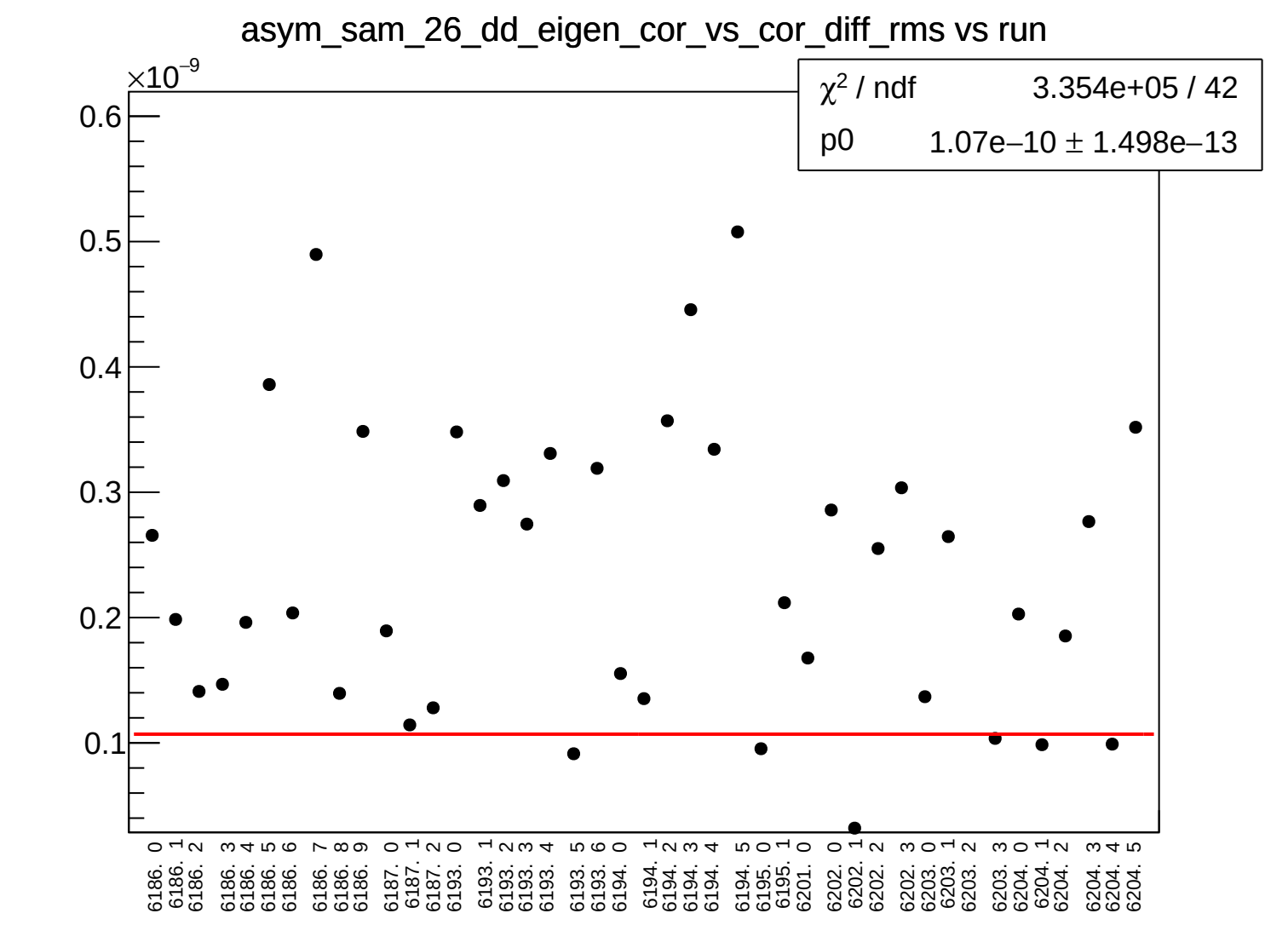

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.138e+04 / 42
p0 70 ± 0.07665
95
90
85
80
75
70
65
60
55
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

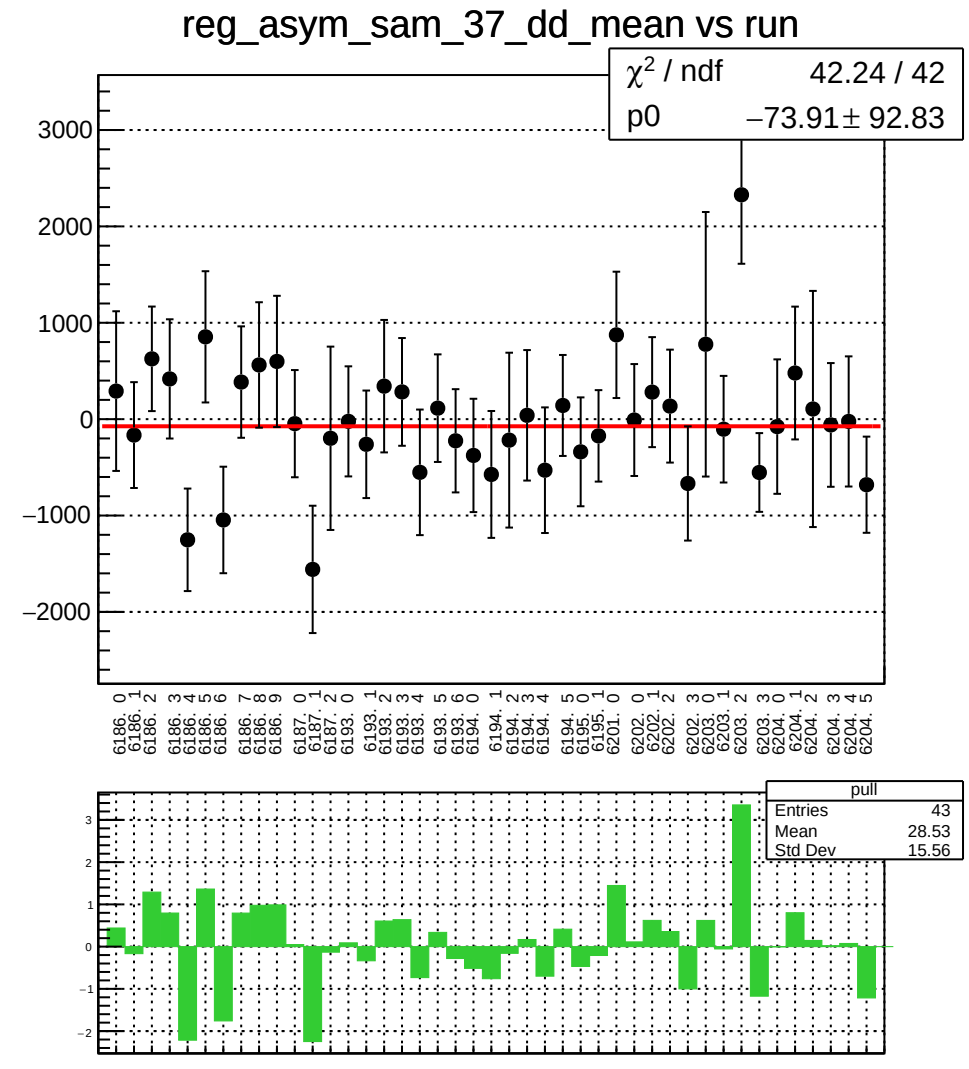

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 52.78 / 42
p0 0.1814 ± 0.1084
pull
Entries 43
Mean −8.496
Std Dev 0

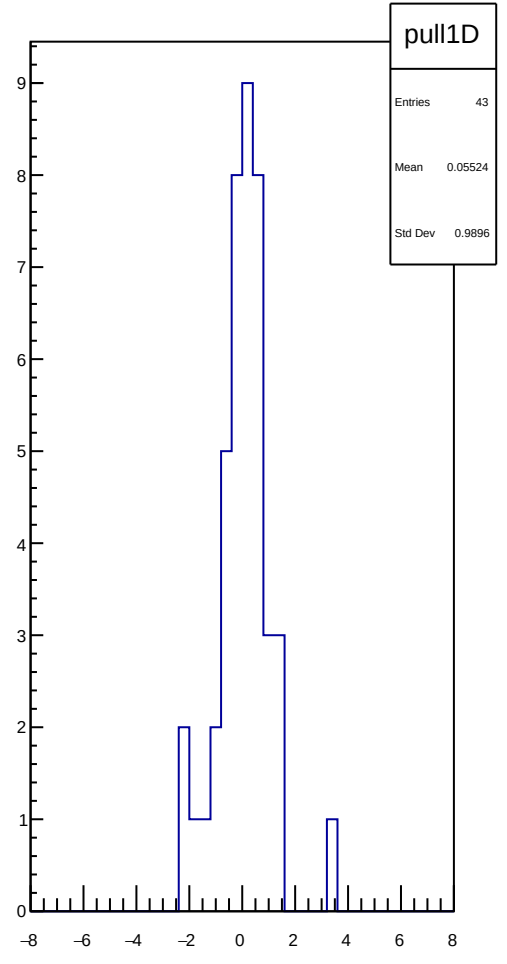

pull1D
Entries 43
Mean 0.03953
Std Dev 1.107

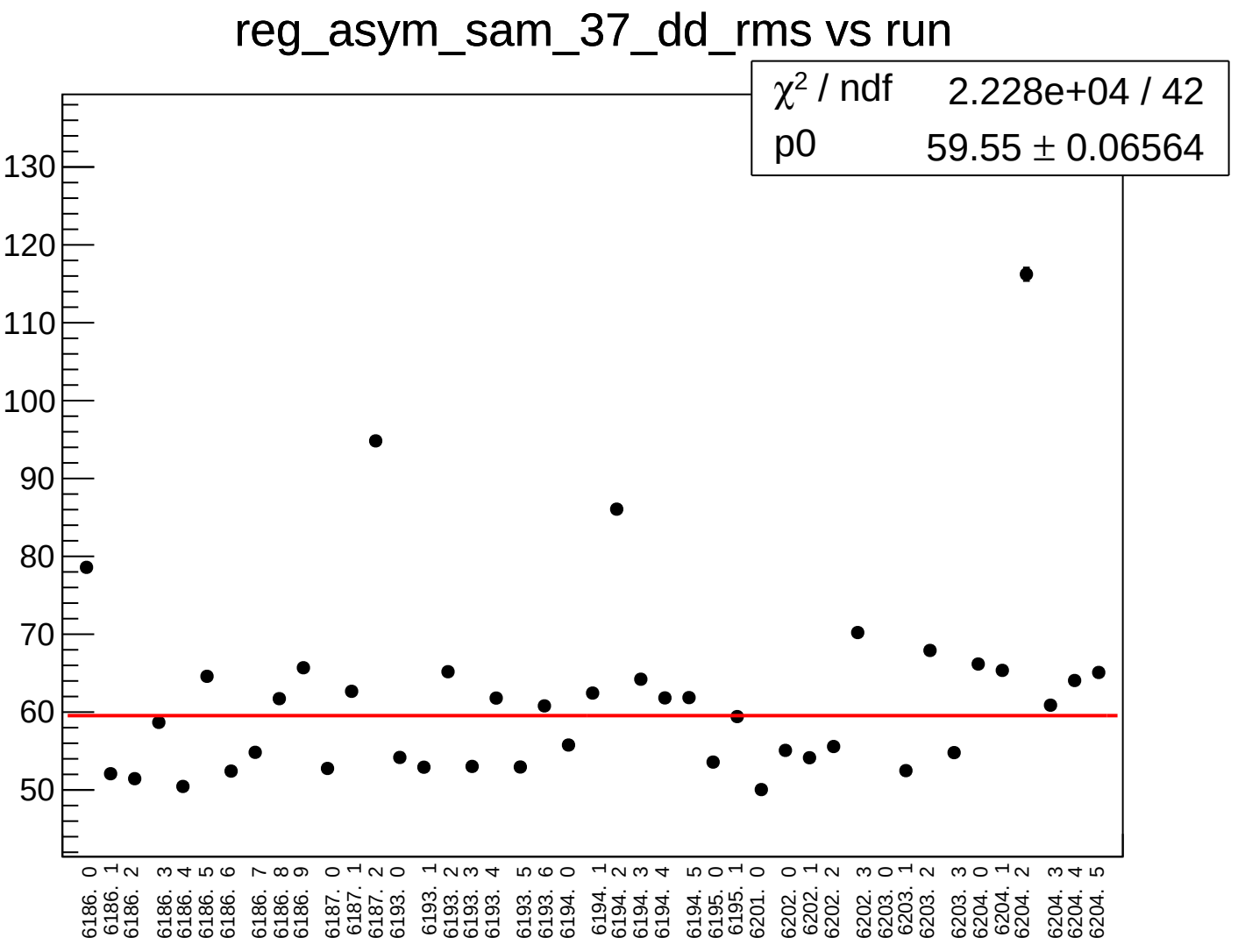

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.138e+04 / 42
p0 70 ± 0.07665
95
90
85
80
75
70
65
60
55
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

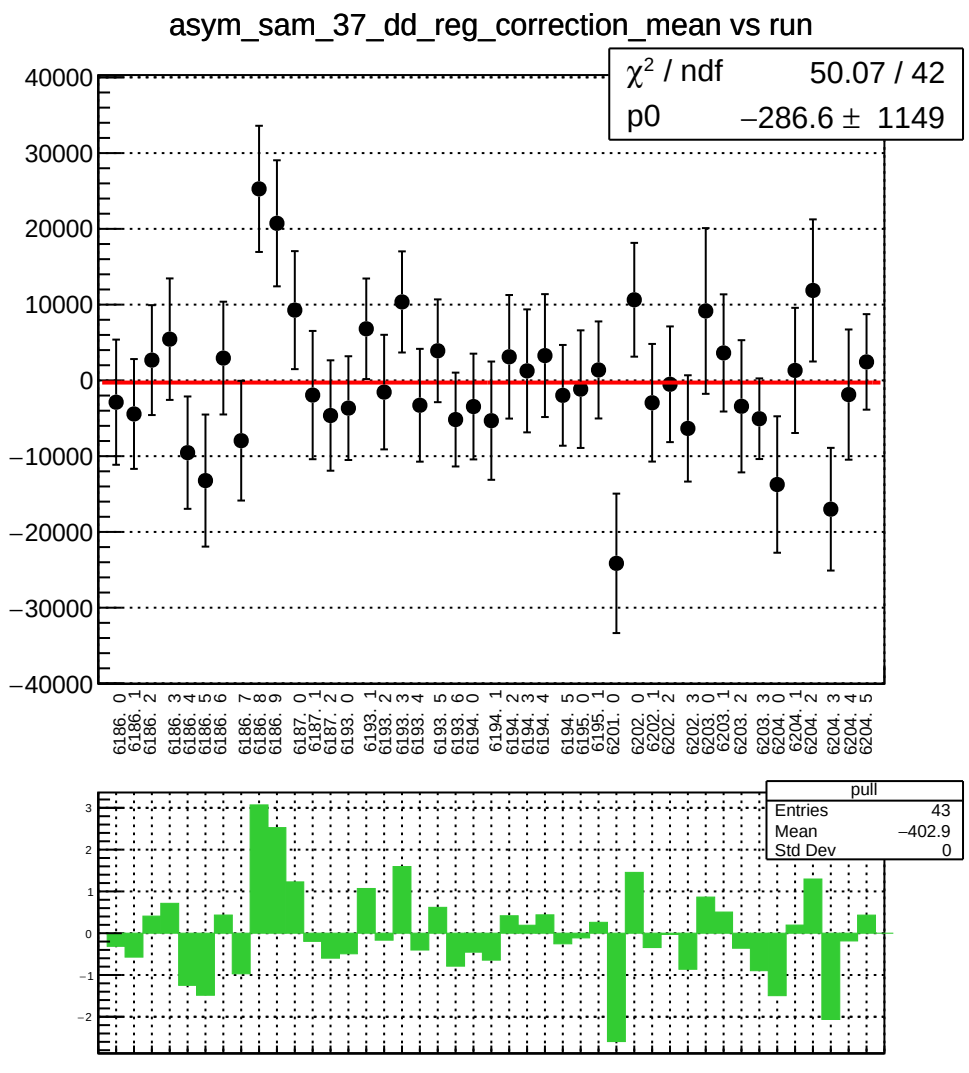

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.84 / 42
p0 2.011e−13 ± 2.119e−13
15
10
5
0
−5
−10
−15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 36.11
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04199
Std Dev 1.169
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

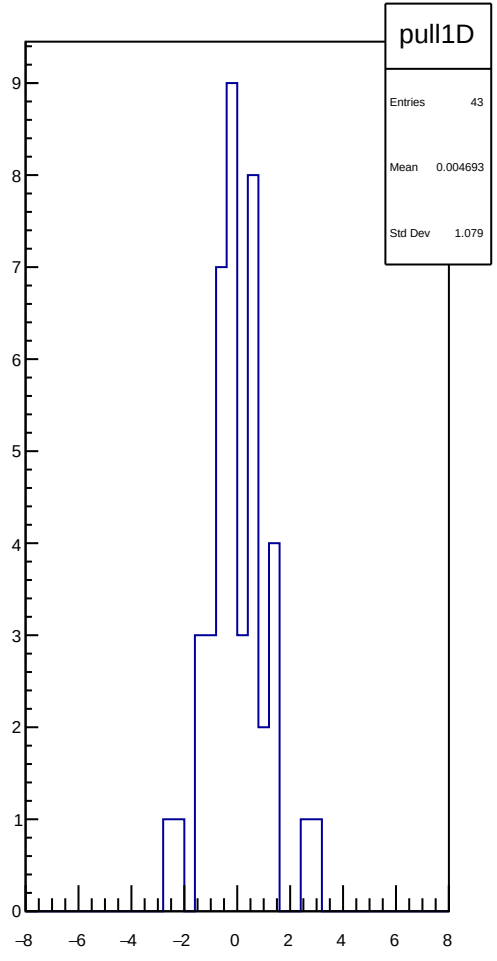

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.354e+05 / 42
p0 1.07e−10 ± 1.498e−13
0.6
0.5
0.4
0.3
0.2
0.1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

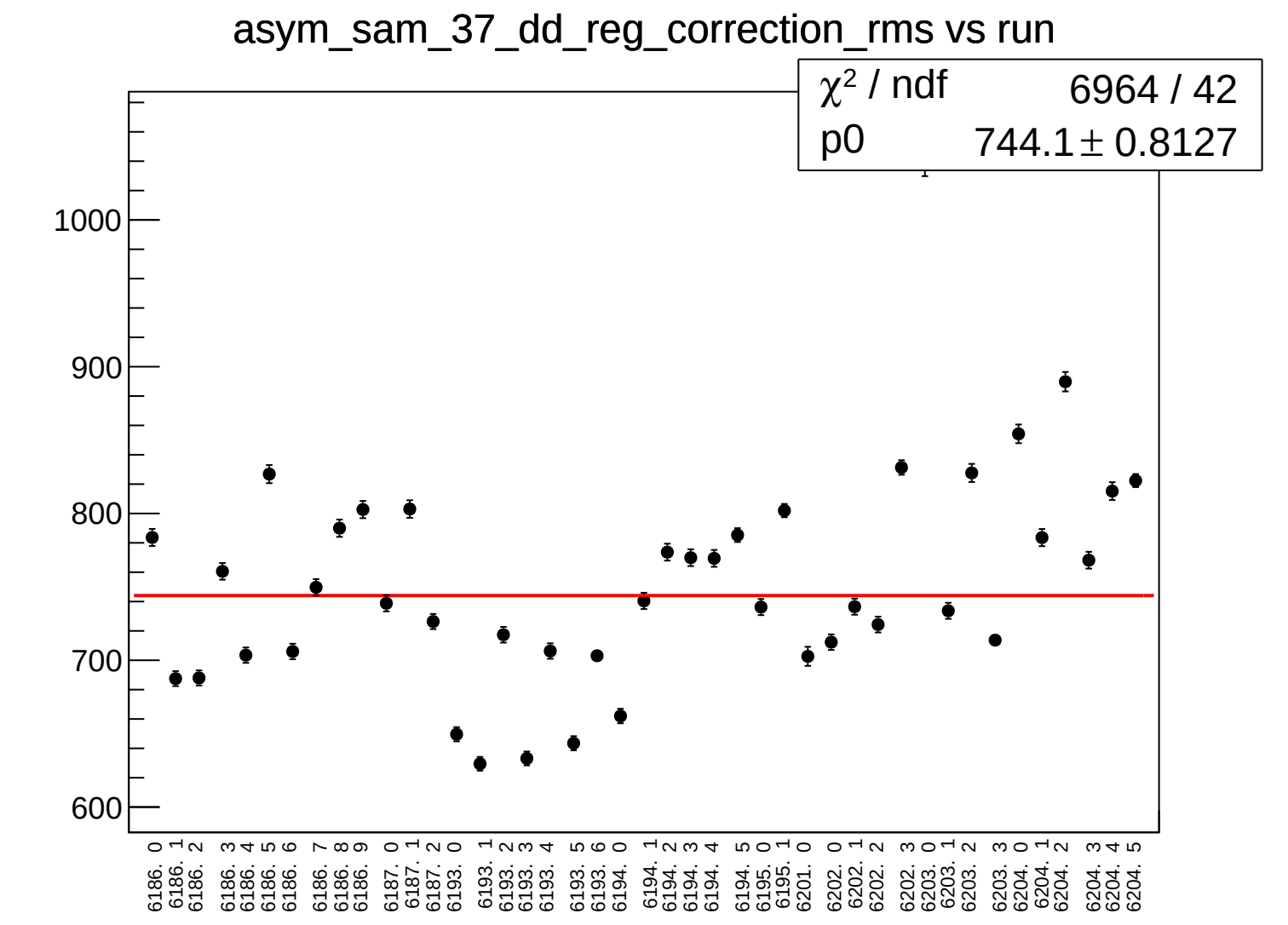

reg_asym_sam_37_dd_mean vs run
χ² / ndf 42.24 / 42
p0 −73.91 ± 92.83
3000
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 28.53
Std Dev 15.56
3
2
1
0
−1
−2

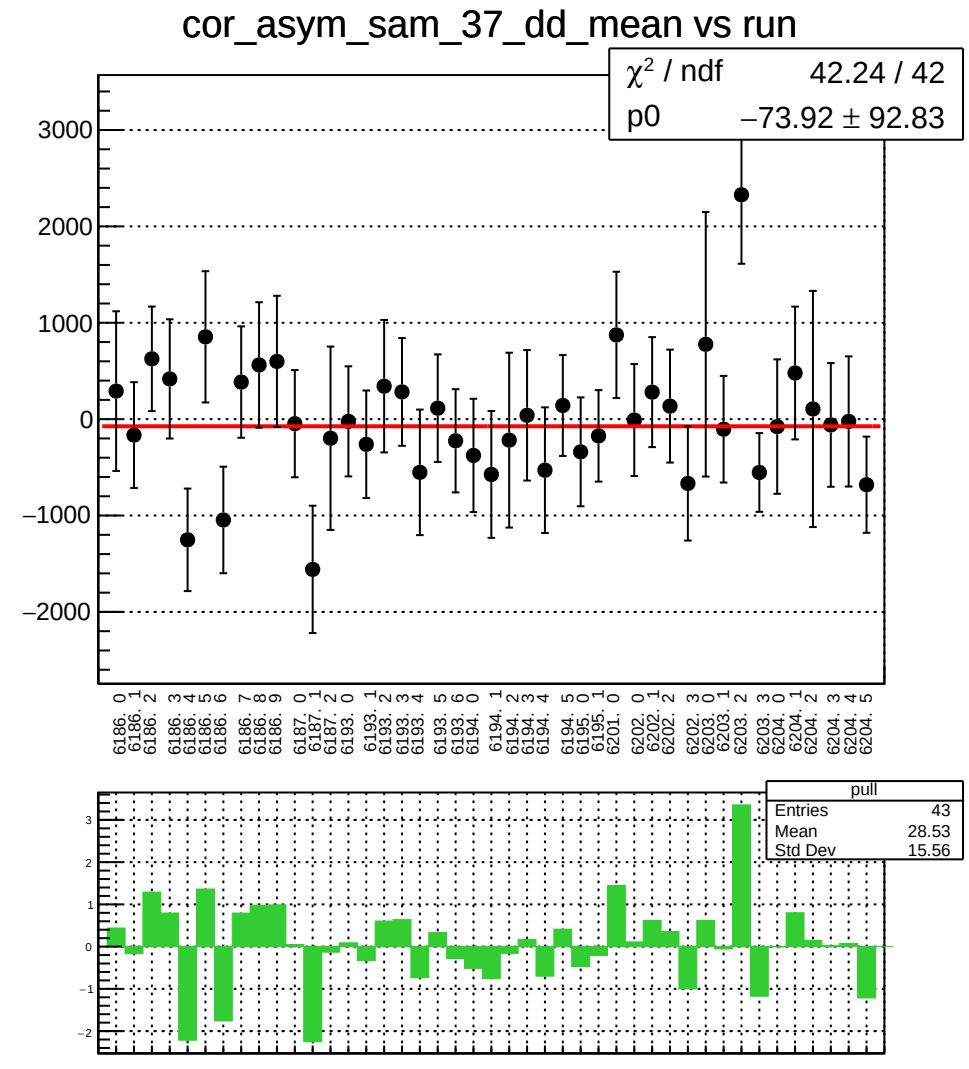

pull1D
Entries 43
Mean 0.05524
Std Dev 0.9896
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_dd_rms vs run
χ² / ndf 2.228e+04 / 42
p0 59.55 ± 0.06564
130
120
110
100
90
80
70
60
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 50.07 / 42
p0 −286.6 ± 1149
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −402.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.004693
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 6964 / 42
p0 744.1 ± 0.8127
1000
900
800
700
600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_sam_37_dd_mean vs run
χ² / ndf 42.24 / 42
p0 −73.92 ± 92.83
3000
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
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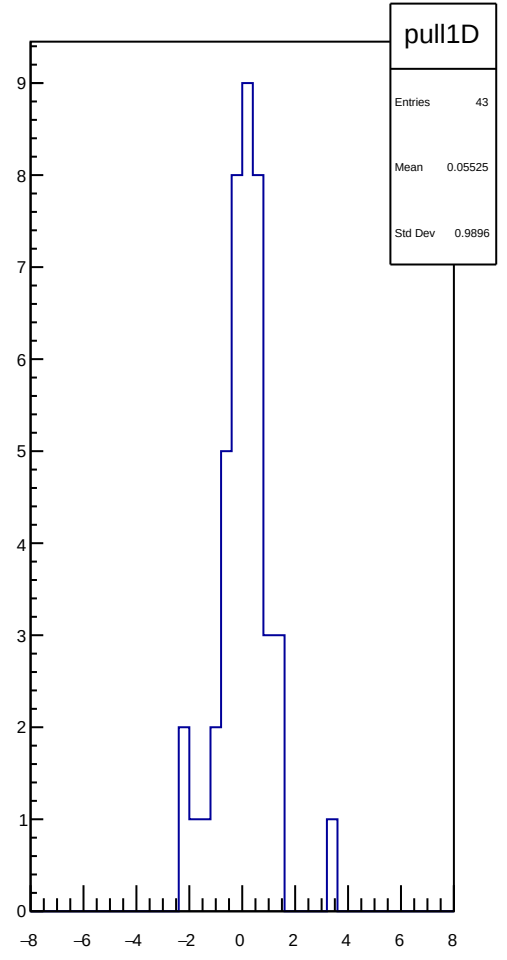
6204. 5
pull
Entries 43
Mean 28.53
Std Dev 15.56
3
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.05525
Std Dev 0.9896
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5
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1
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−4
−2
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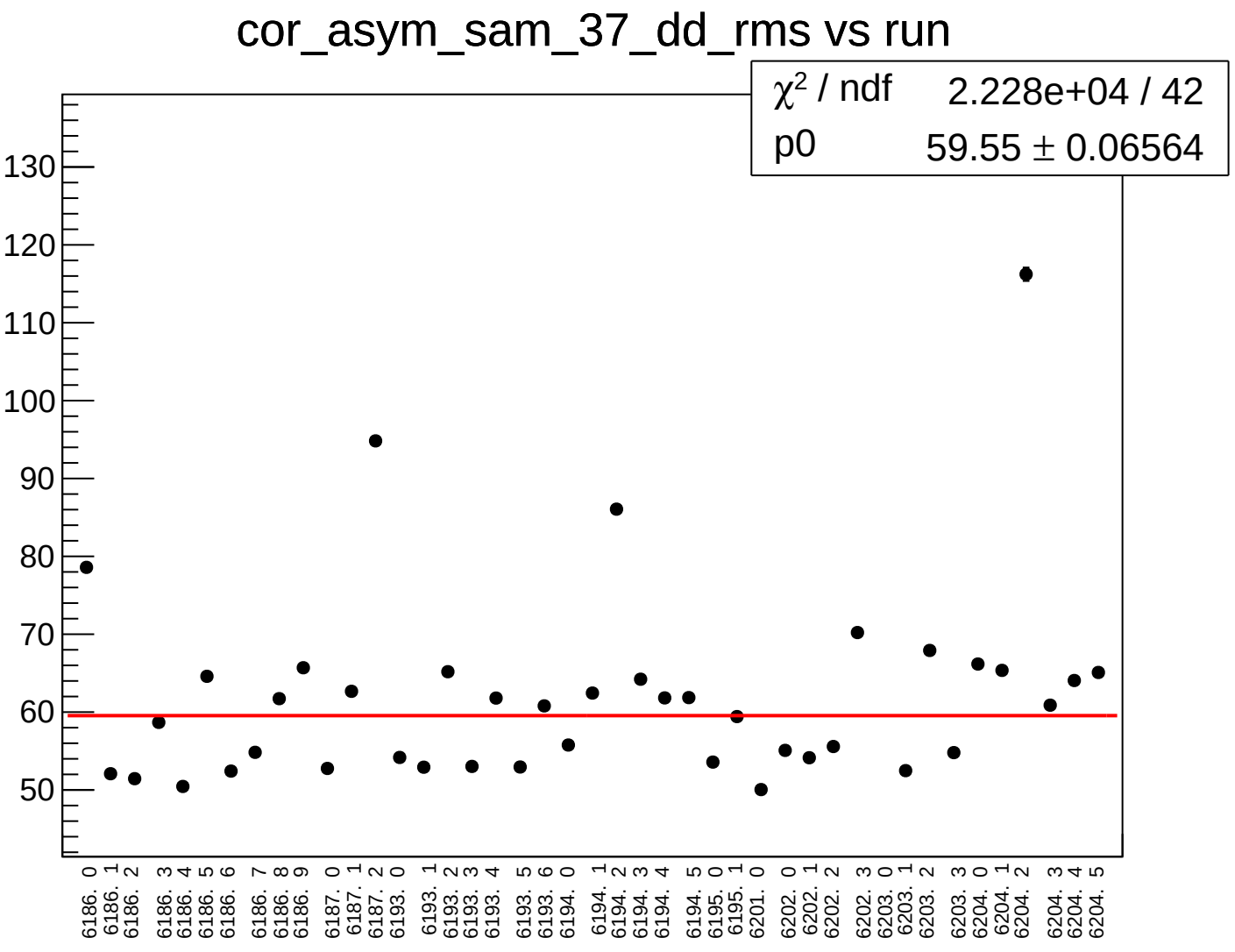
6
8


cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.228e+04 / 42
p0 59.55 ± 0.06564
130
120
110
100
90
80
70
60
50
6186. 0
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6186. 7
6186. 8
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6187. 2
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6193. 2
6193. 3
6193. 4
6193. 5
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6194. 2
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6194. 5
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6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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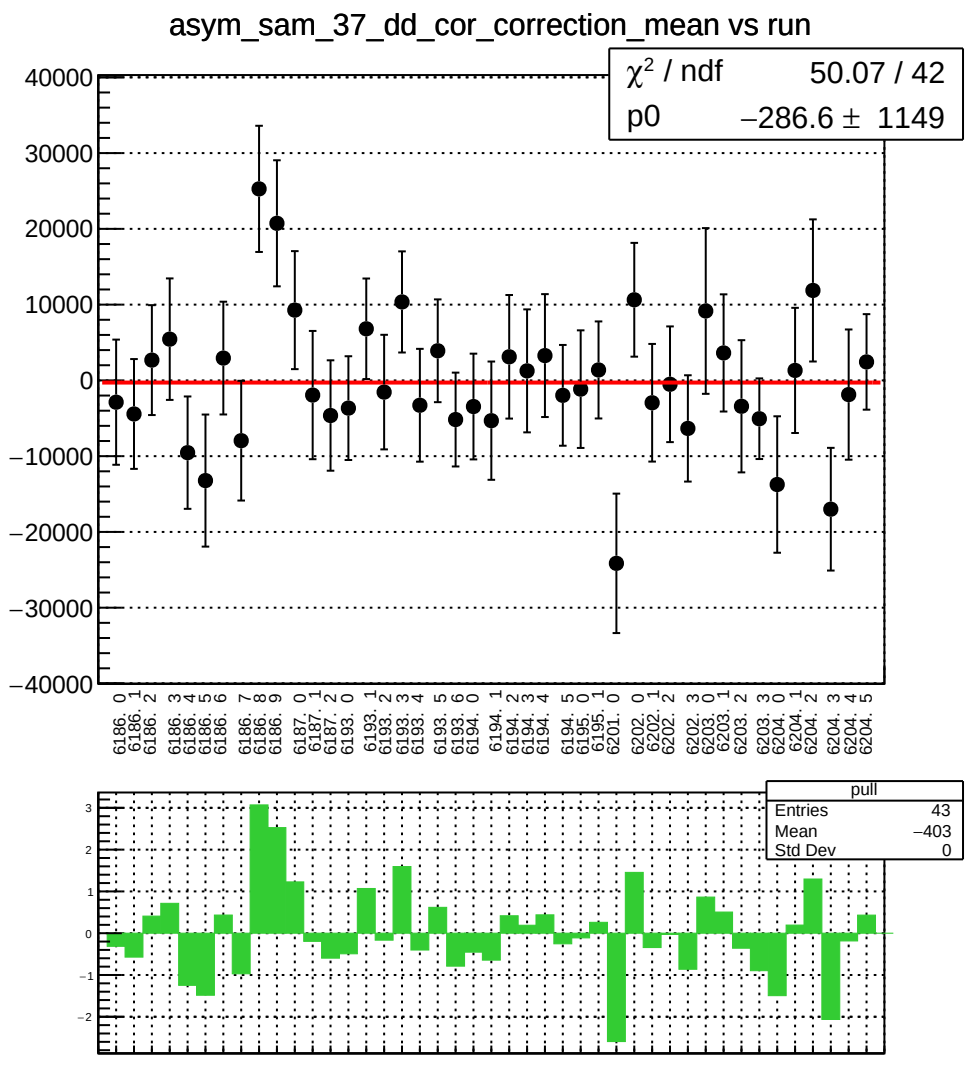
6204. 4
6204. 5


asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 50.07 / 42
p0 −286.6 ± 1149
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
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6186. 4
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6186. 7
6186. 8
6186. 9
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6187. 1
6187. 2
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
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6195. 1
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6203. 3
6204. 0
6204. 1
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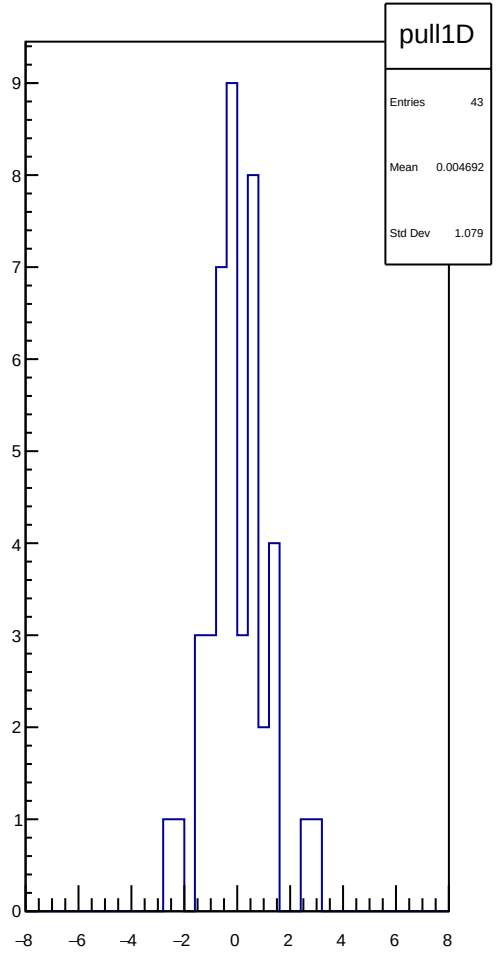
6204. 5
pull
Entries 43
Mean −403
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.004692
Std Dev 1.079
9
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5
4
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1
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−6
−4
−2
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2
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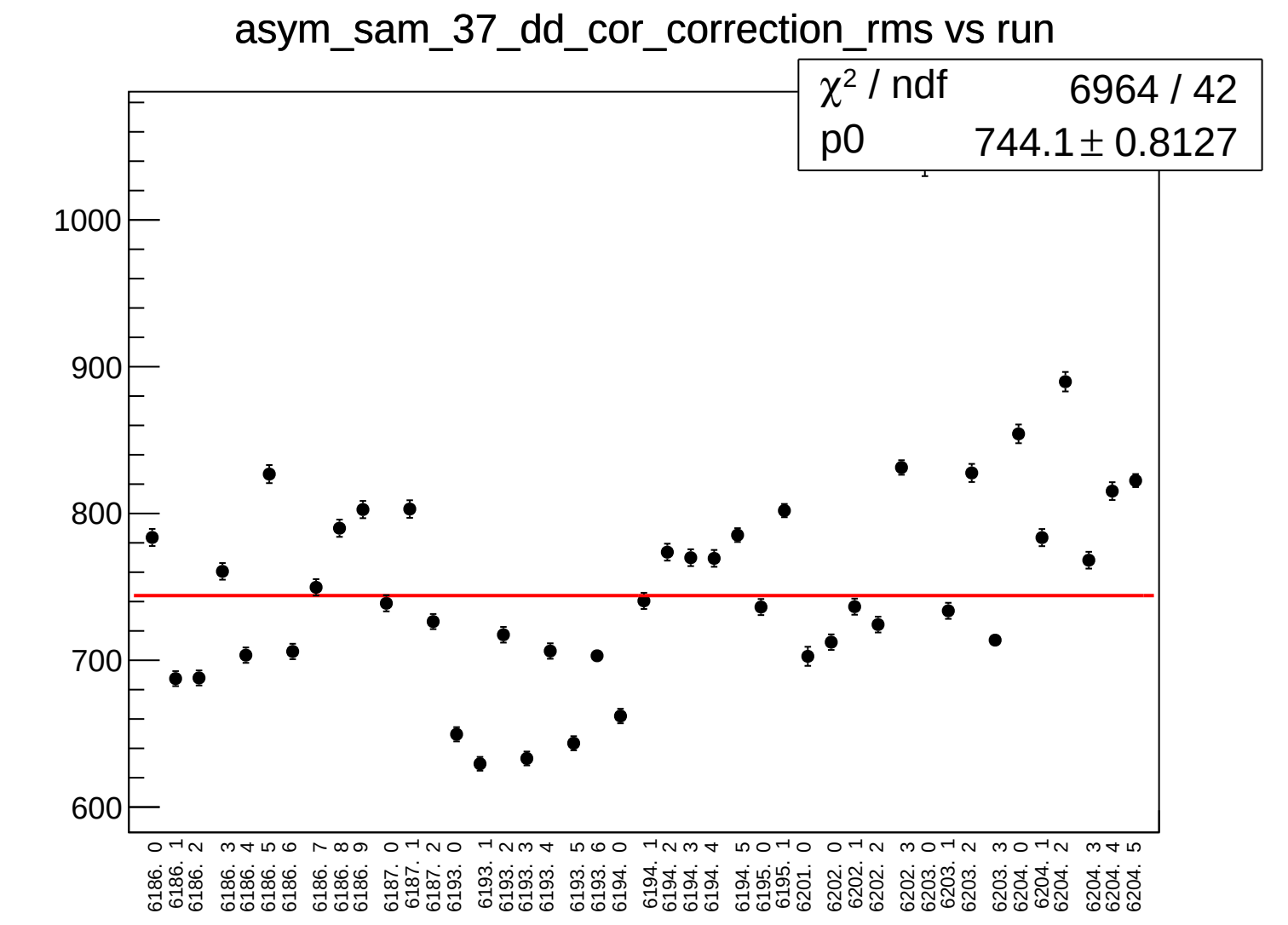
6
8


asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 6964 / 42
p0 744.1 ± 0.8127
1000
900
800
700
600
6186. 0
6186. 1
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6186. 3
6186. 4
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6186. 6
6186. 7
6186. 8
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6193. 0
6193. 1
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6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
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6202. 0
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6202. 2
6202. 3
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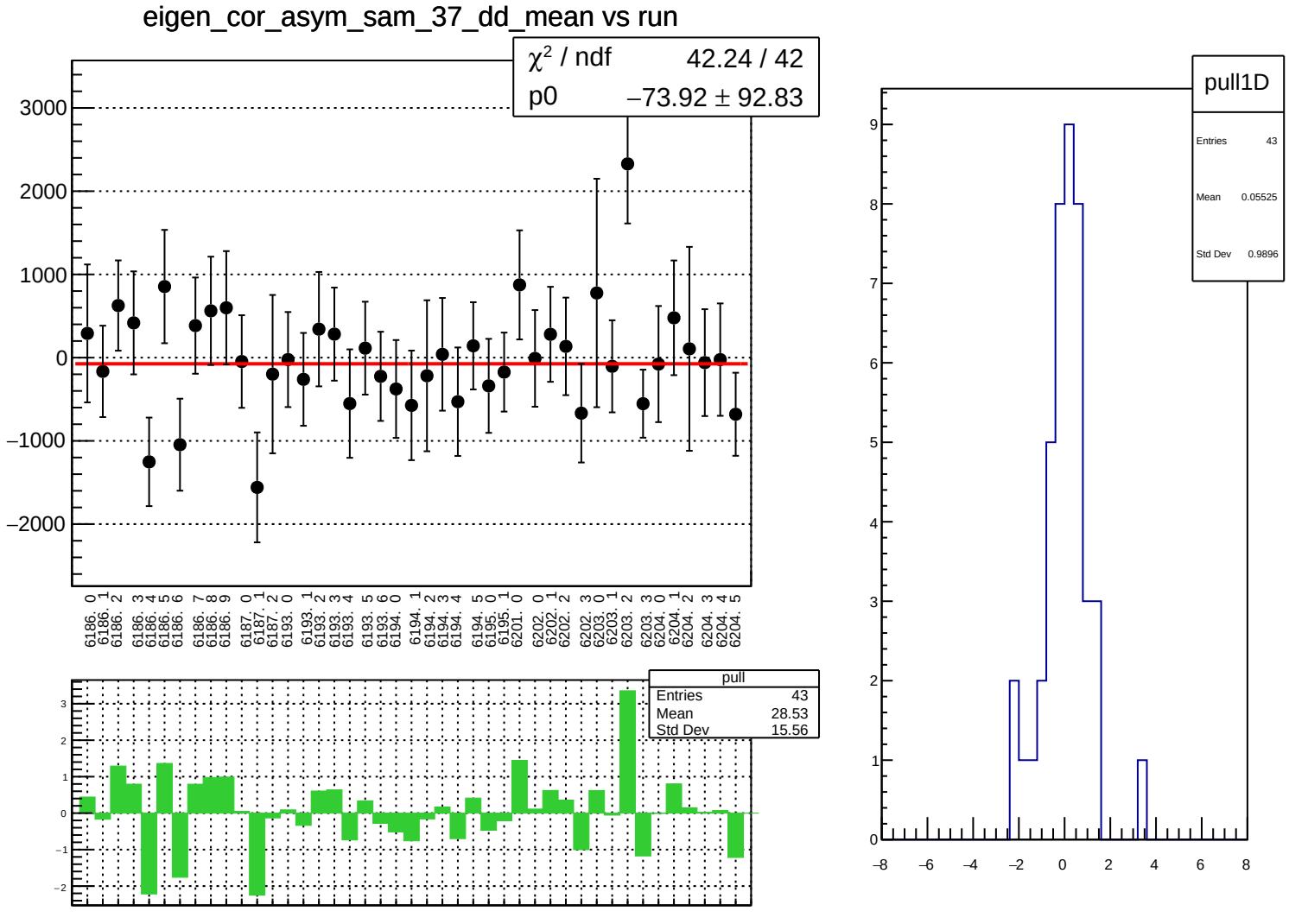
6204. 4
6204. 5


eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 42.24 / 42
p0 −73.92 ± 92.83
3000
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
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6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
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6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 28.53
Std Dev 15.56
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.05525
Std Dev 0.9896
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−4
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6
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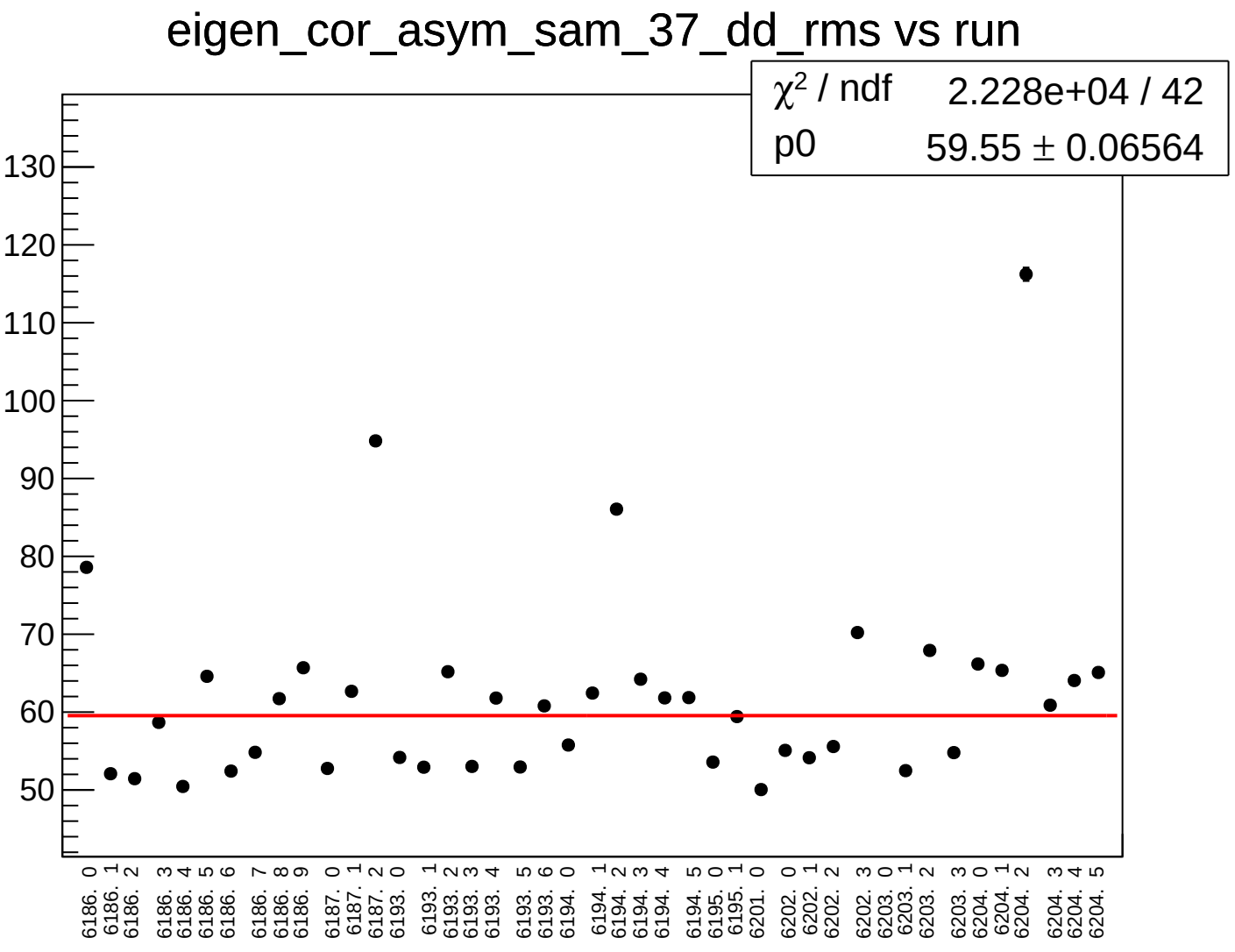
eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.228e+04 / 42
p0 59.55 ± 0.06564
130
120
110
100
90
80
70
60
50
6186. 0
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6194. 5
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6202. 0
6202. 1
6202. 2
6202. 3
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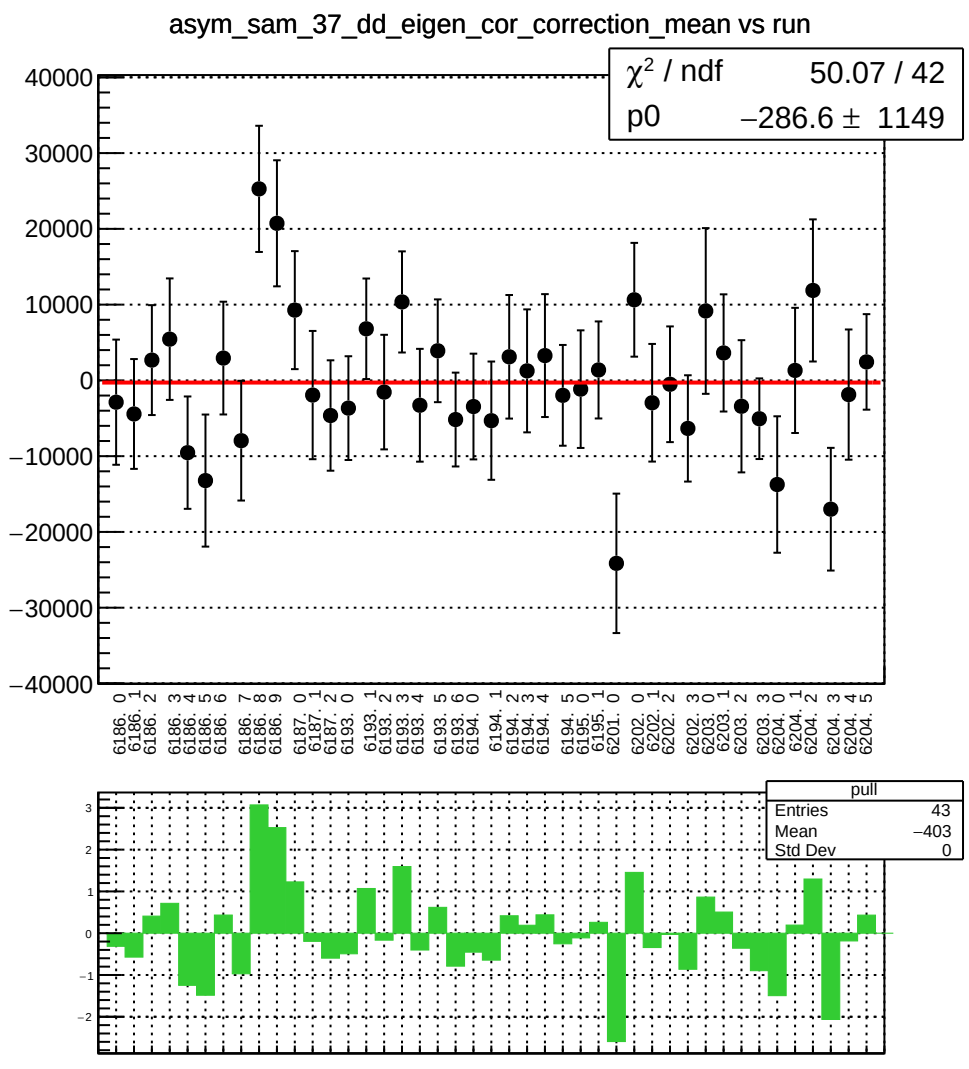
asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 50.07 / 42
p0 −286.6 ± 1149
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
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6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
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6194. 5
6195. 0
6195. 1
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6203. 3
6204. 0
6204. 1
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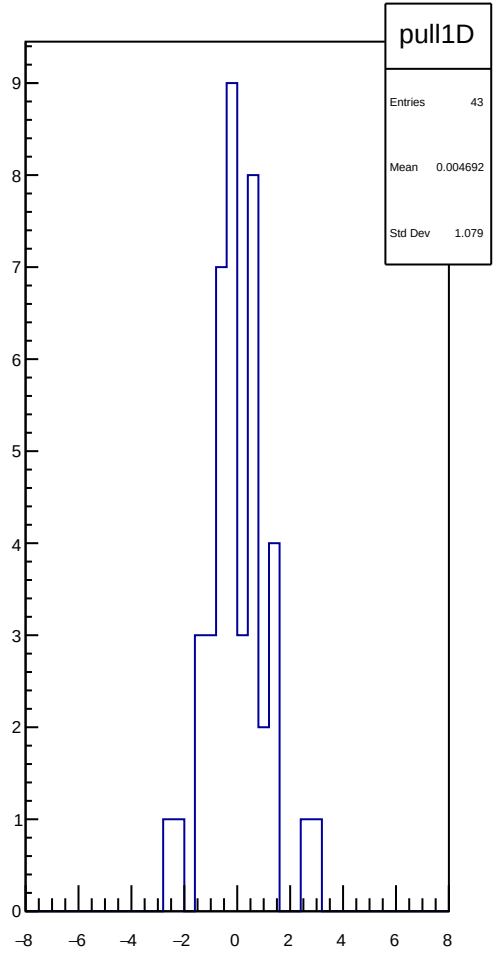
6204. 4
6204. 5
pull
Entries 43
Mean −403
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.004692
Std Dev 1.079
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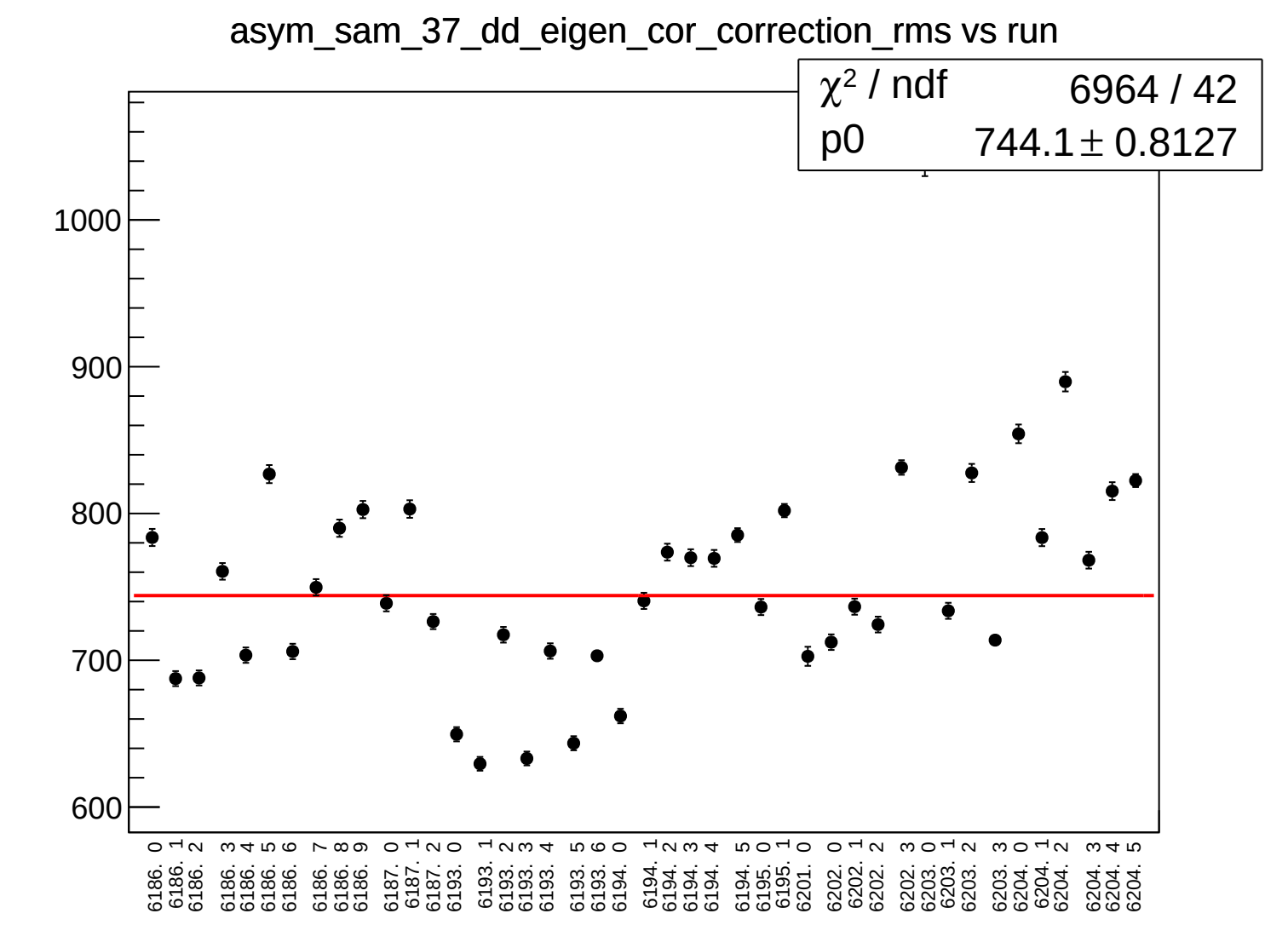
asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 6964 / 42
p0 744.1 ± 0.8127
1000
900
800
700
600
6186. 0
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6186. 2
6186. 3
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6186. 5
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6187. 2
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6204. 2
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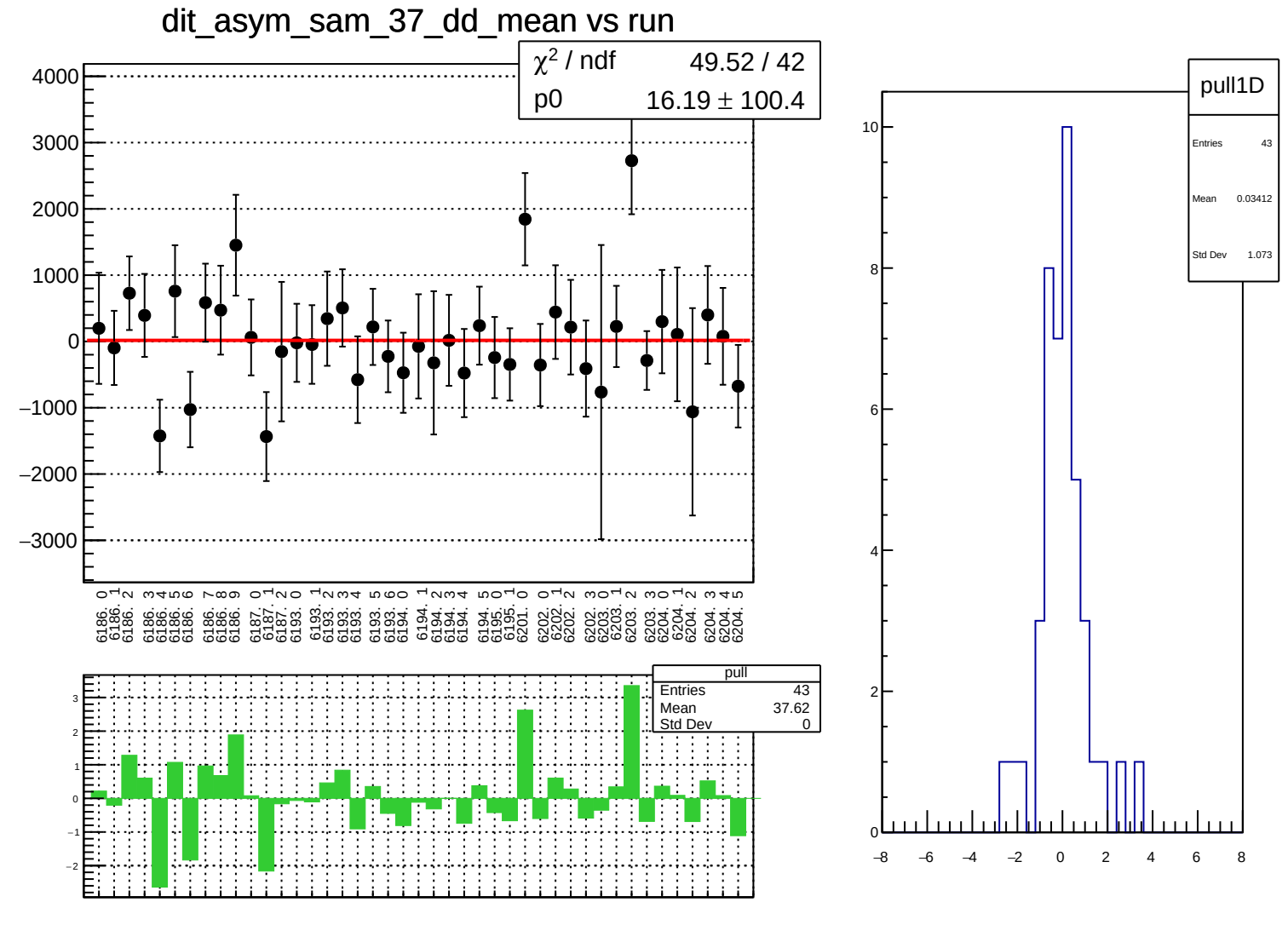
6204. 4
6204. 5


dit_asym_sam_37_dd_mean vs run
χ² / ndf 49.52 / 42
p0 16.19 ± 100.4
4000
3000
2000
1000
0
−1000
−2000
−3000
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6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
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6204. 5
pull
Entries 43
Mean 37.62
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03412
Std Dev 1.073
10
8
6
4
2
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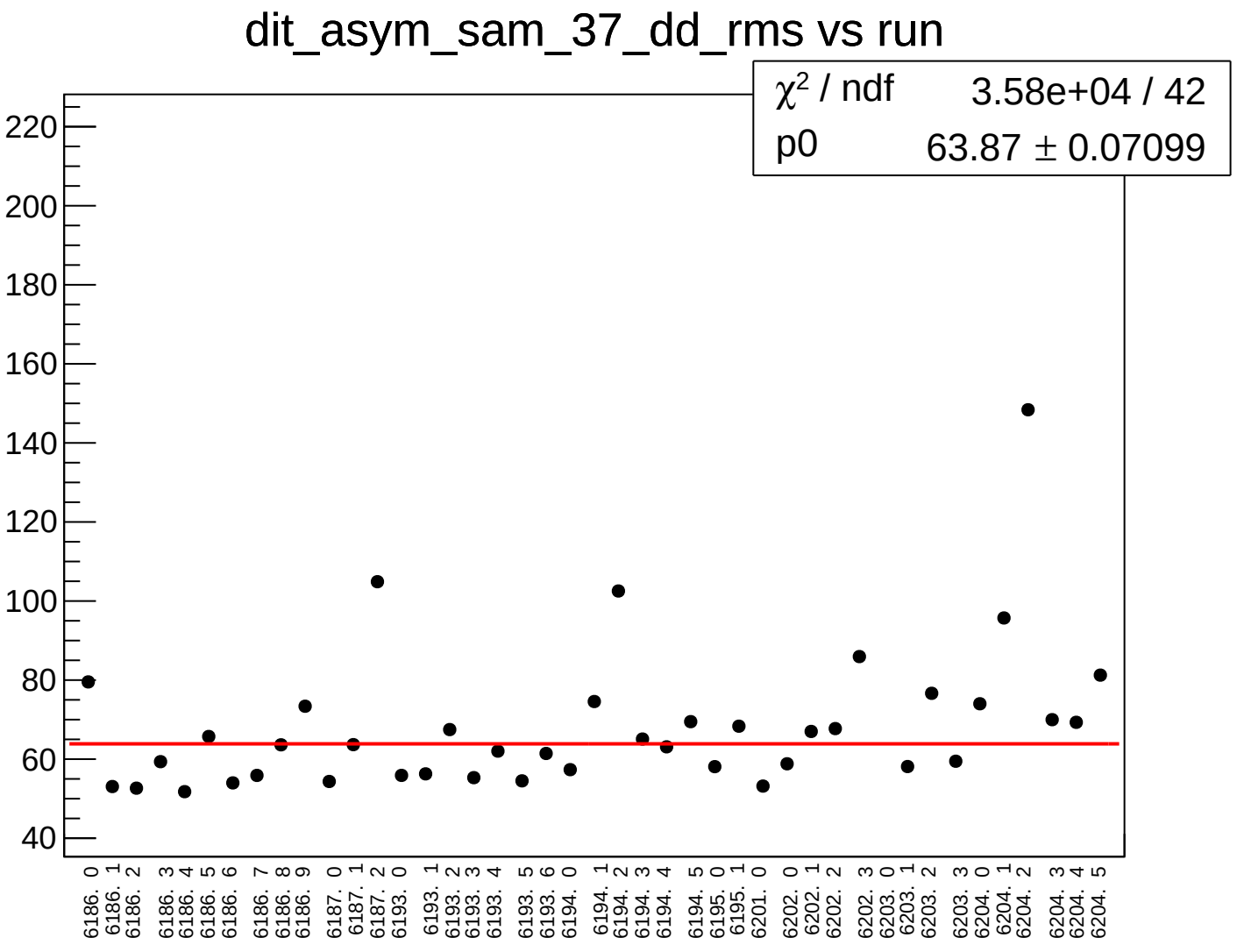
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 3.58e+04 / 42
p0 63.87 ± 0.07099
220
200
180
160
140
120
100
80
60
40
6186. 0
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6186. 2
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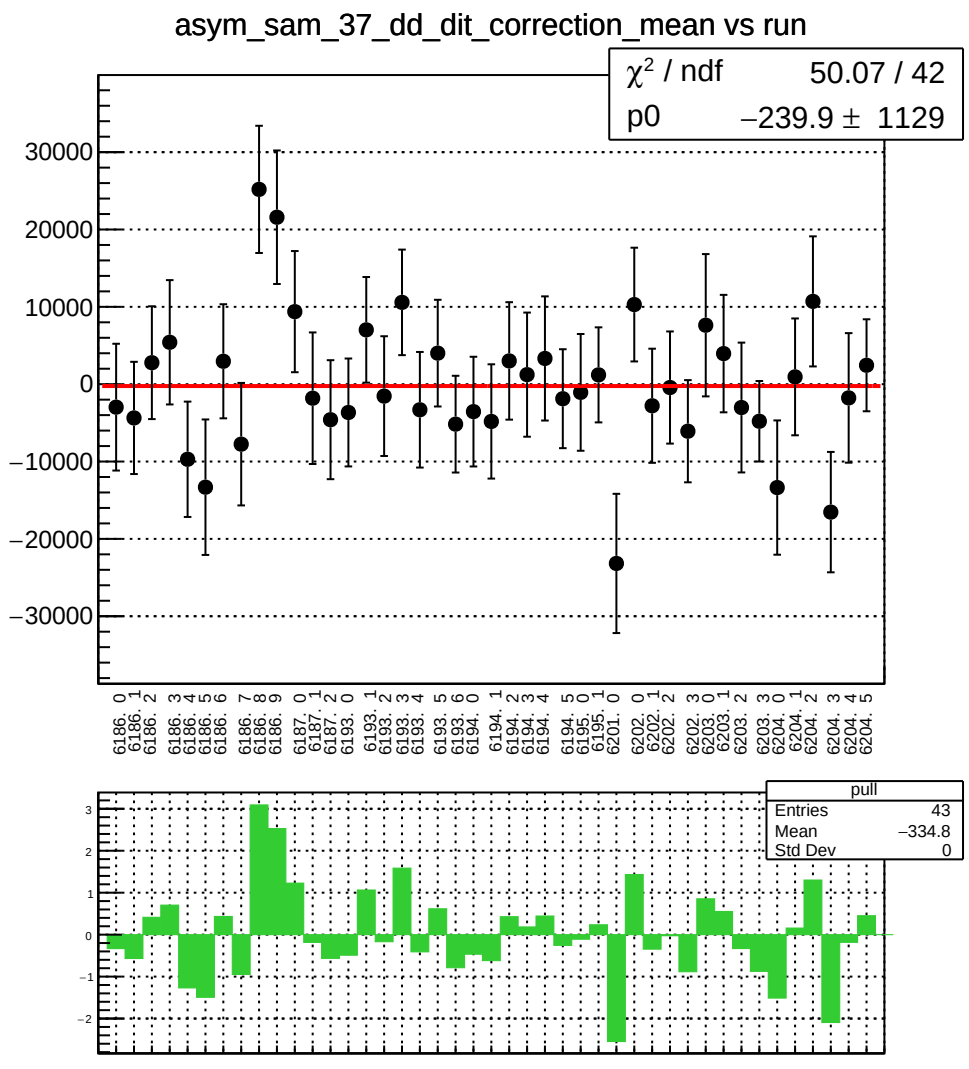
6204. 5


asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 50.07 / 42
p0 −239.9 ± 1129
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
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6187. 0
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6187. 2
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6194. 0
6194. 1
6194. 2
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6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
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6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −334.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.005583
Std Dev 1.079
9
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1
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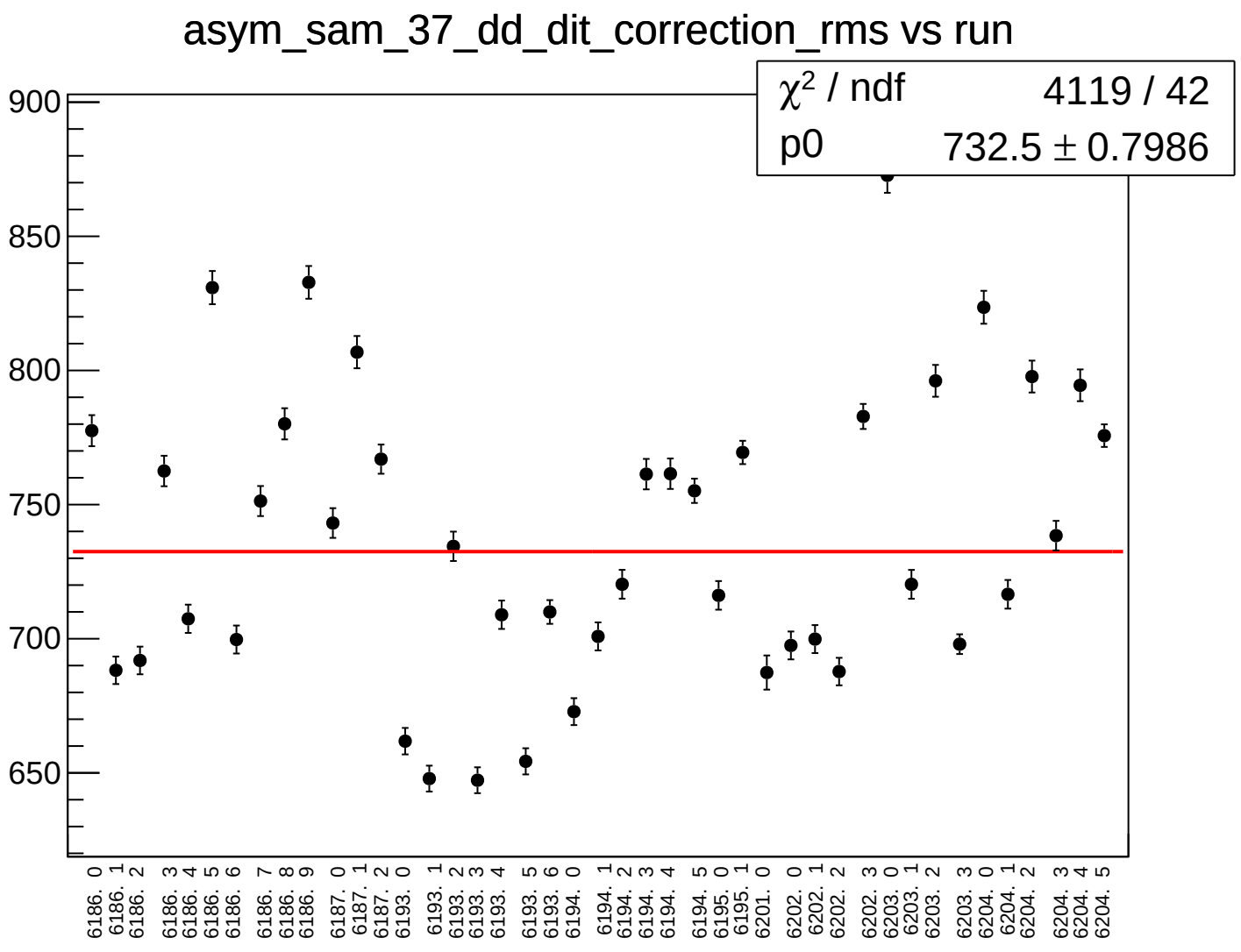
−6
−4
−2
0
2
4
6
8


asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 4119 / 42
p0 732.5 ± 0.7986
900
850
800
750
700
650
6186. 0
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6186. 2
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6187. 2
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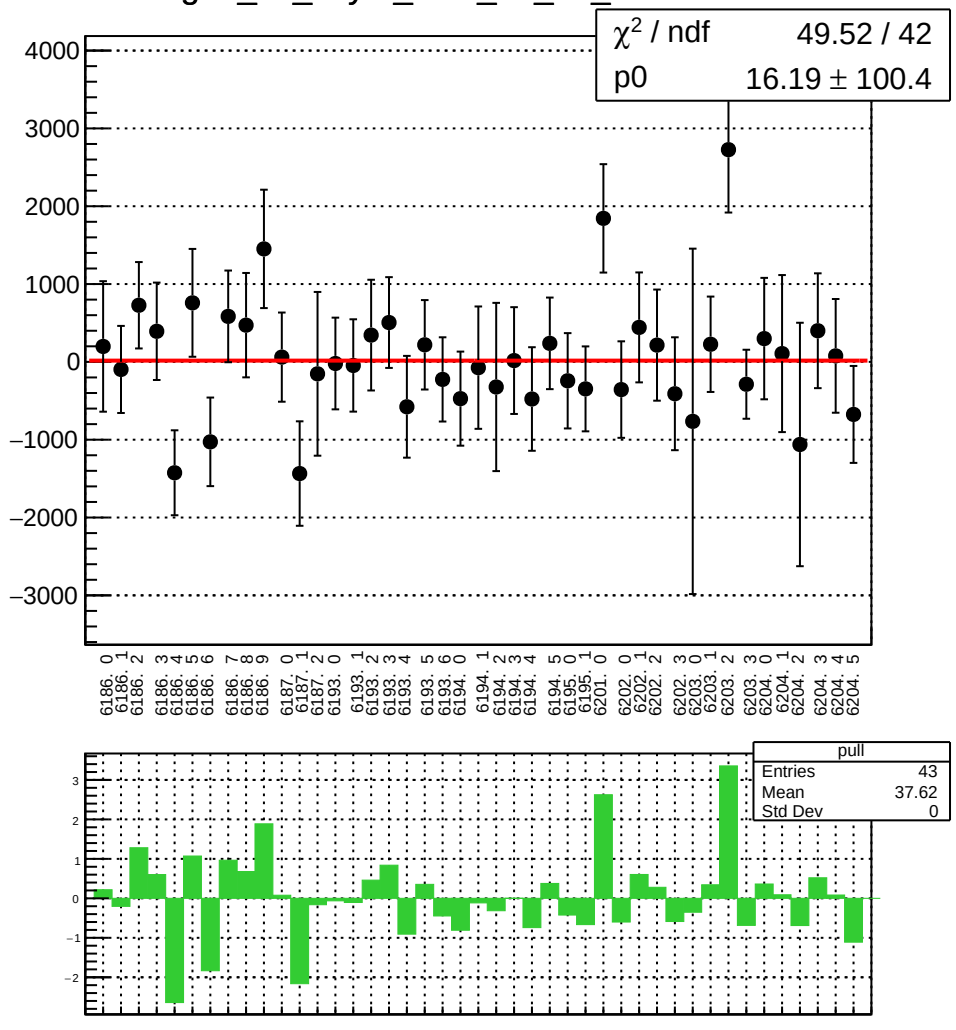
eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 49.52 / 42
p0 16.19 ± 100.4
4000
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
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6187. 2
6193. 0
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6193. 2
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6202. 1
6202. 2
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6203. 1
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6204. 1
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6204. 4
6204. 5
pull
Entries 43
Mean 37.62
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03412
Std Dev 1.073
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6
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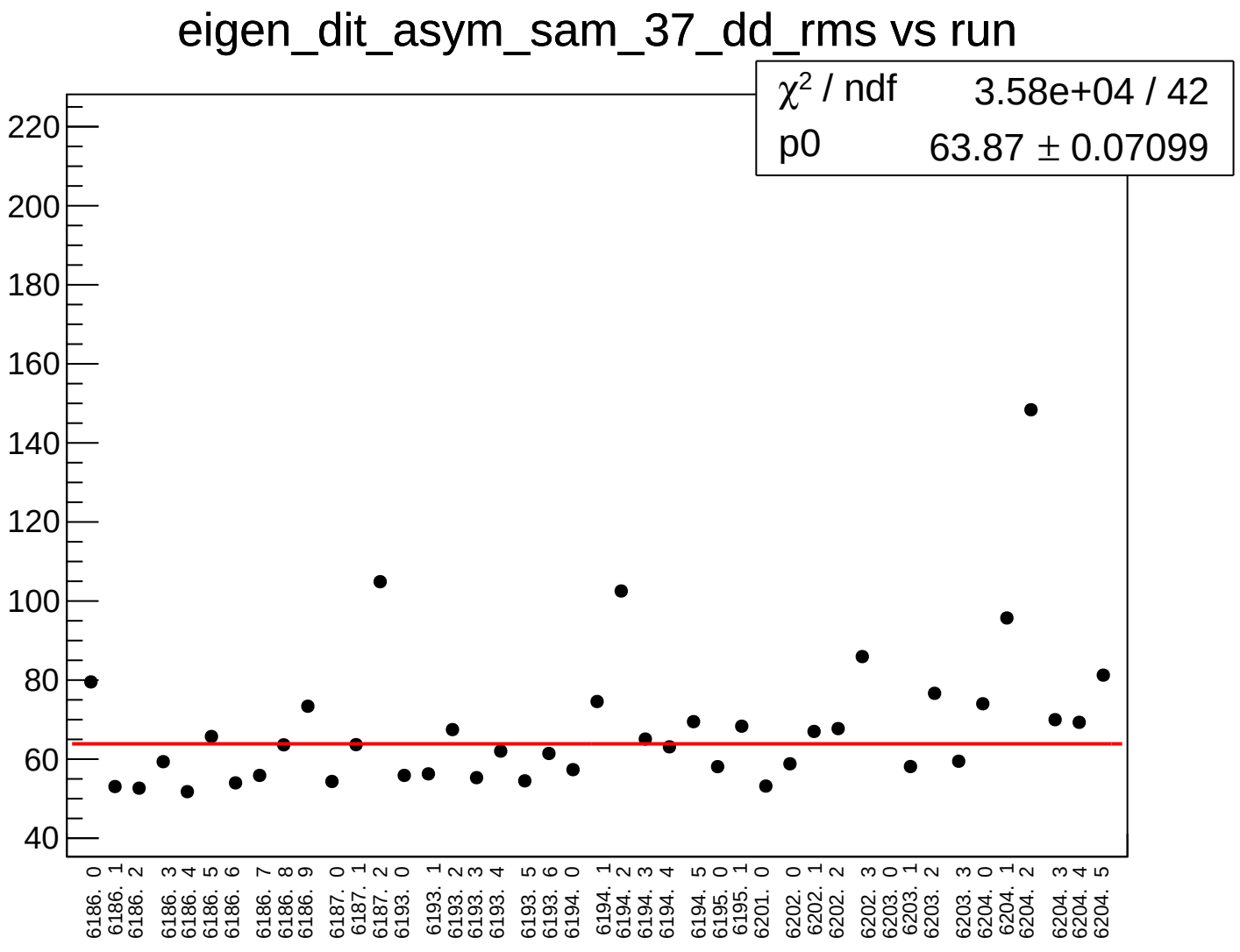
eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 3.58e+04 / 42
p0 63.87 ± 0.07099
220
200
180
160
140
120
100
80
60
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6186. 0
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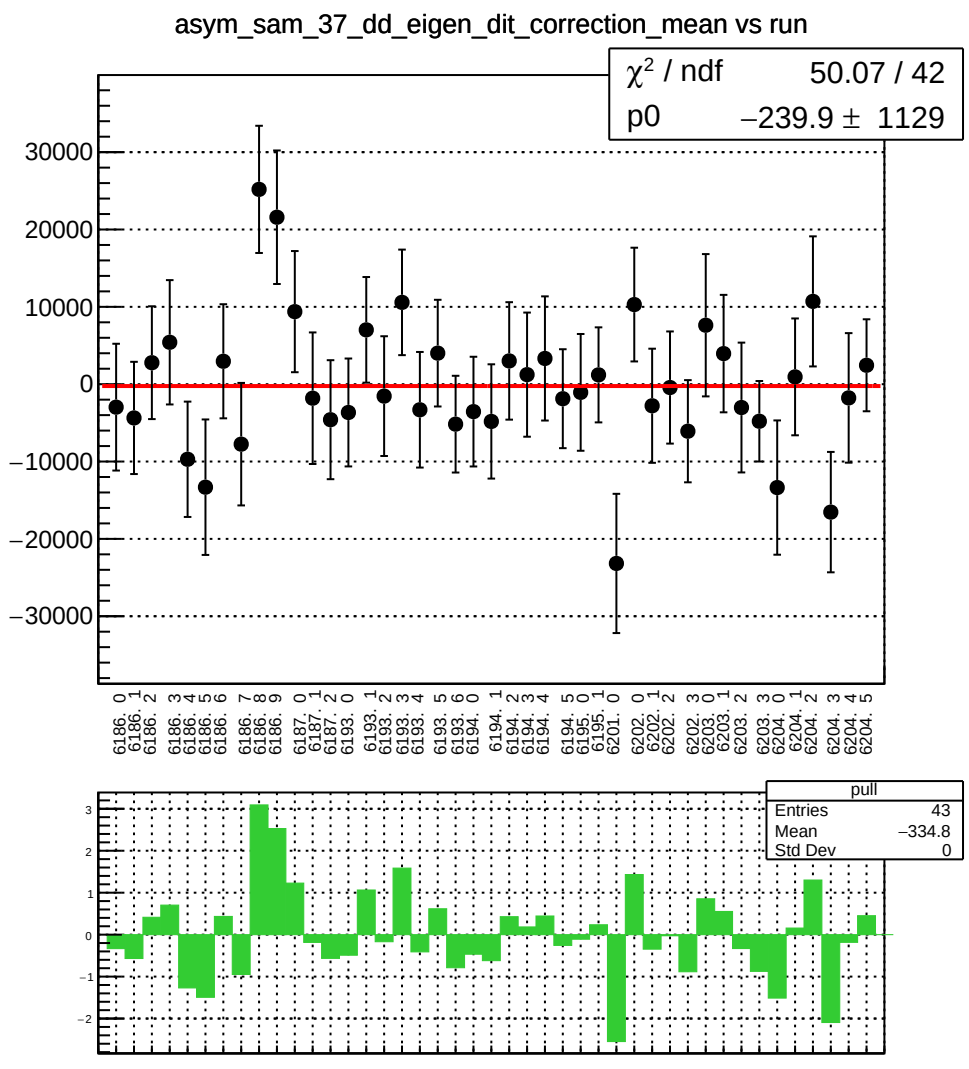
6204. 5


asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 50.07 / 42
p0 −239.9 ± 1129
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
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6186. 8
6186. 9
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6203. 1
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6204. 0
6204. 1
6204. 2
6204. 3
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6204. 5
pull
Entries 43
Mean −334.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.005583
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
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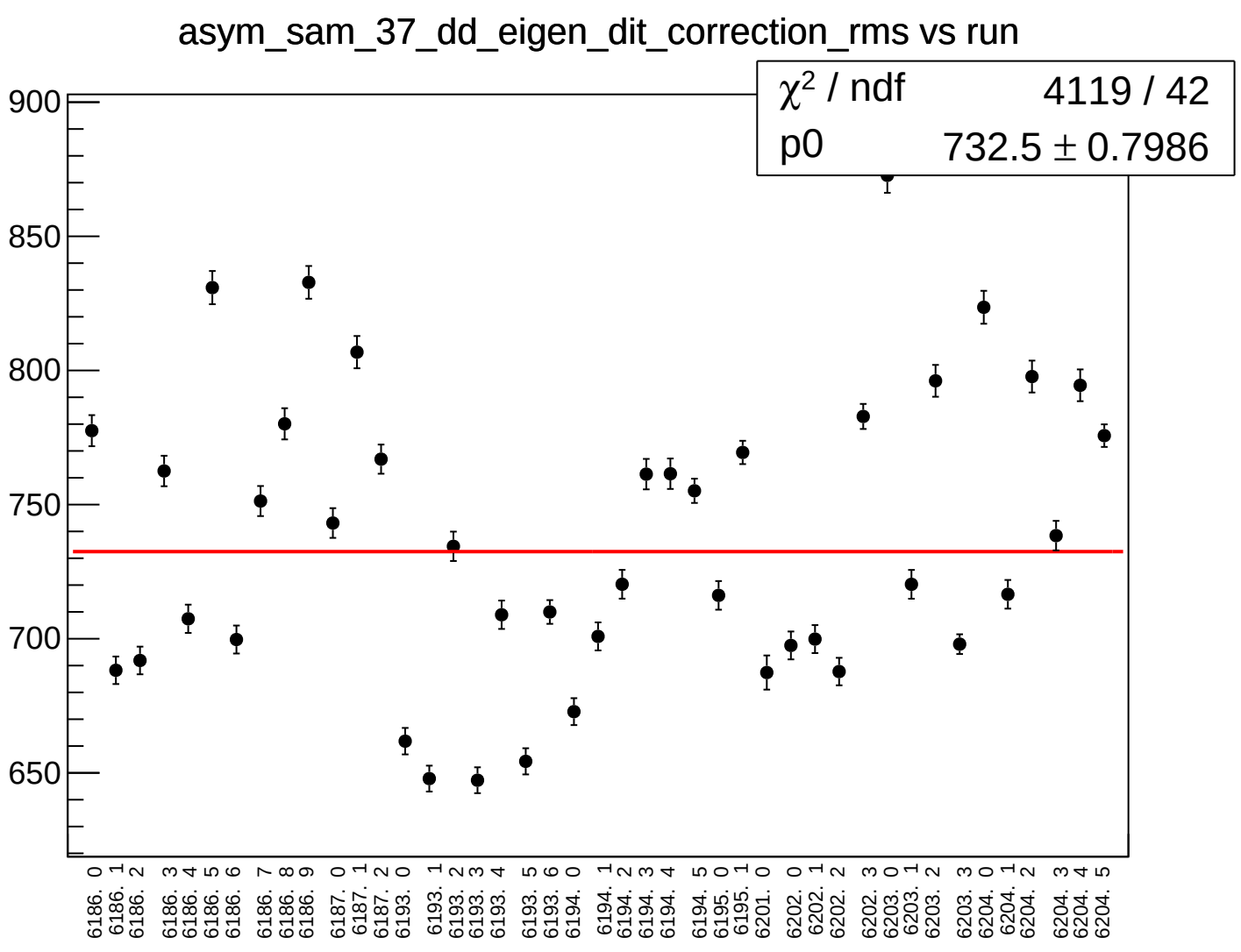
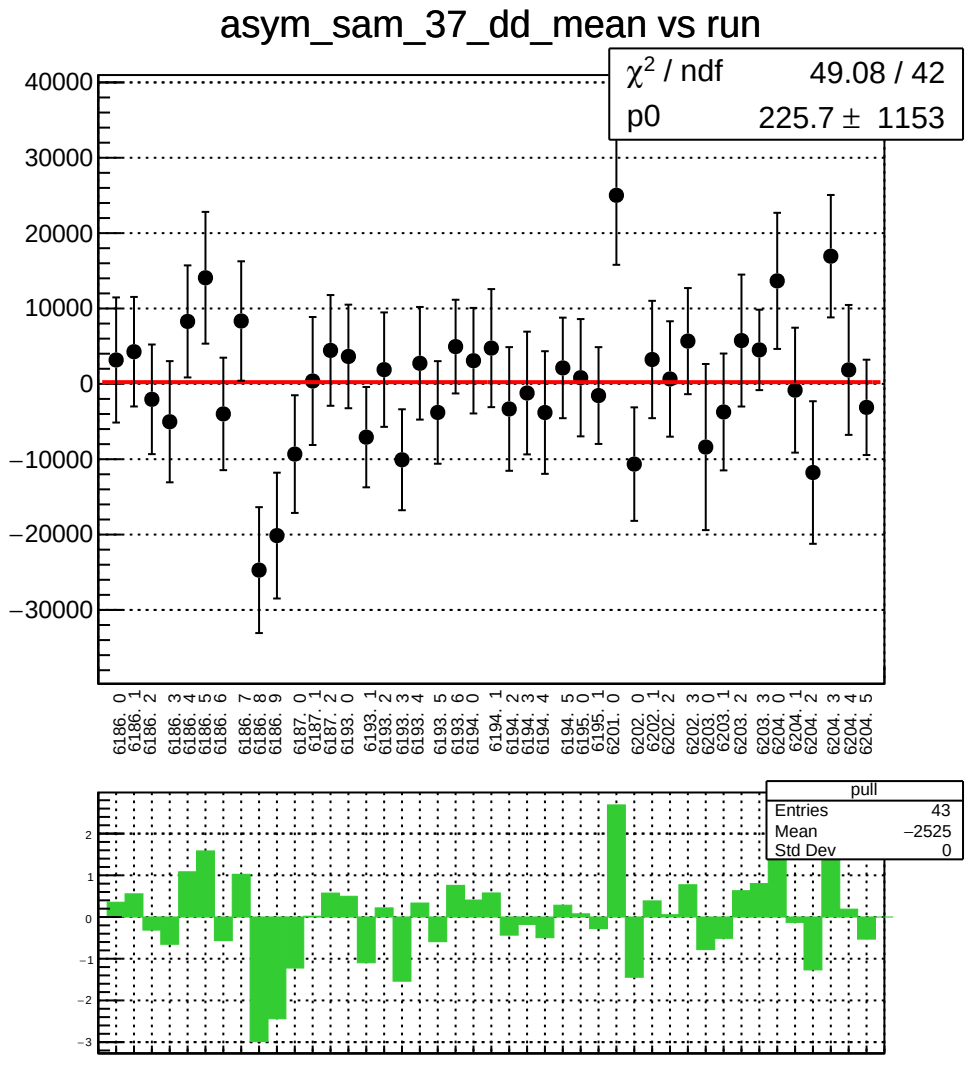
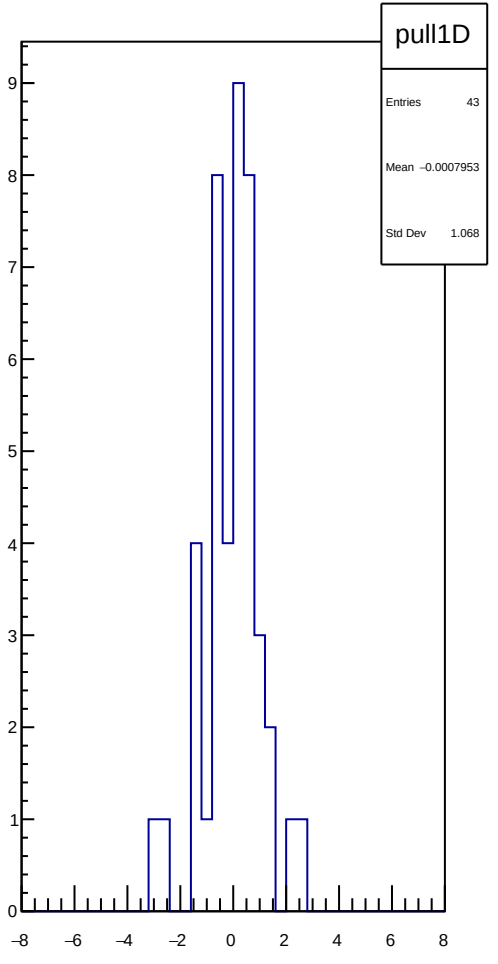
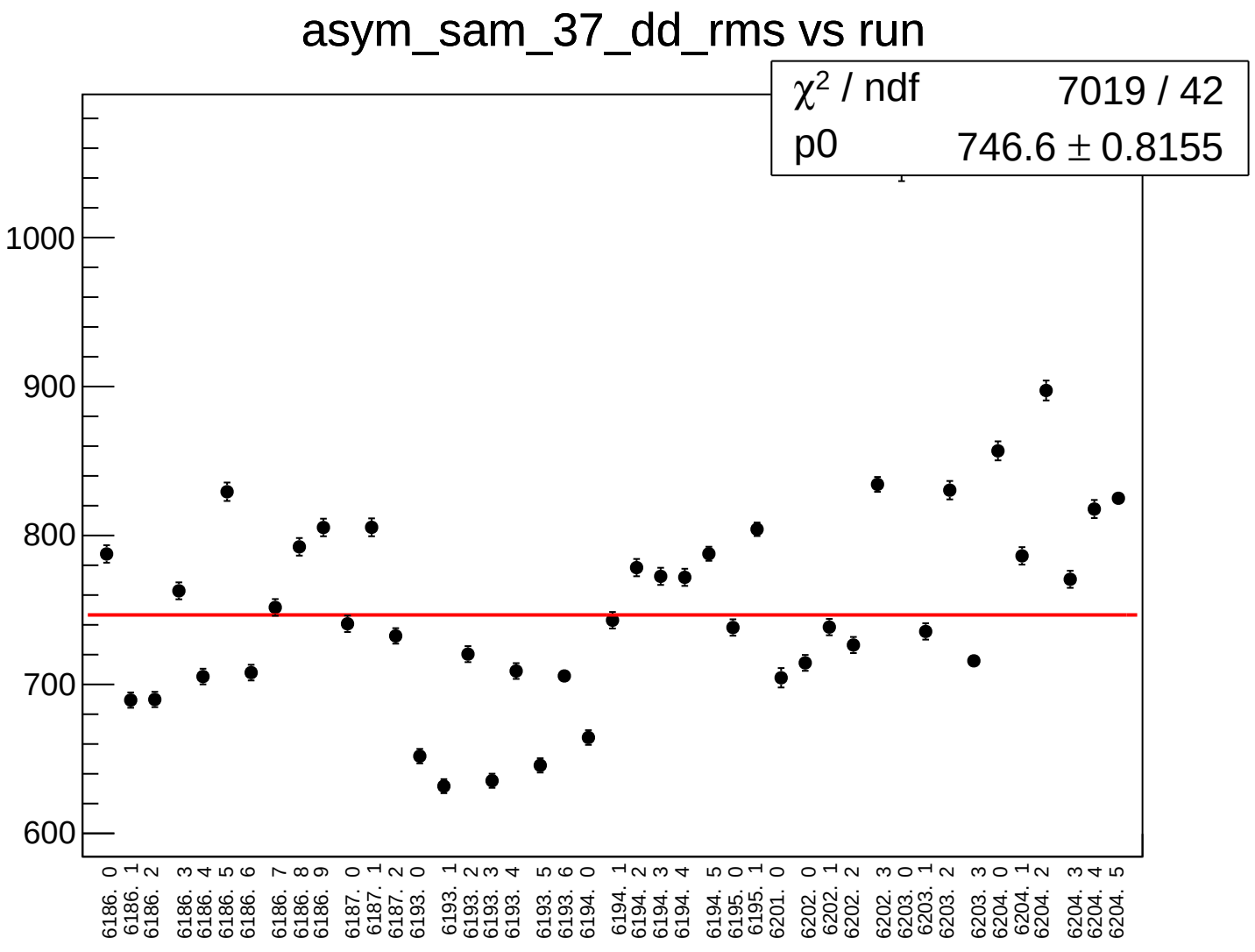
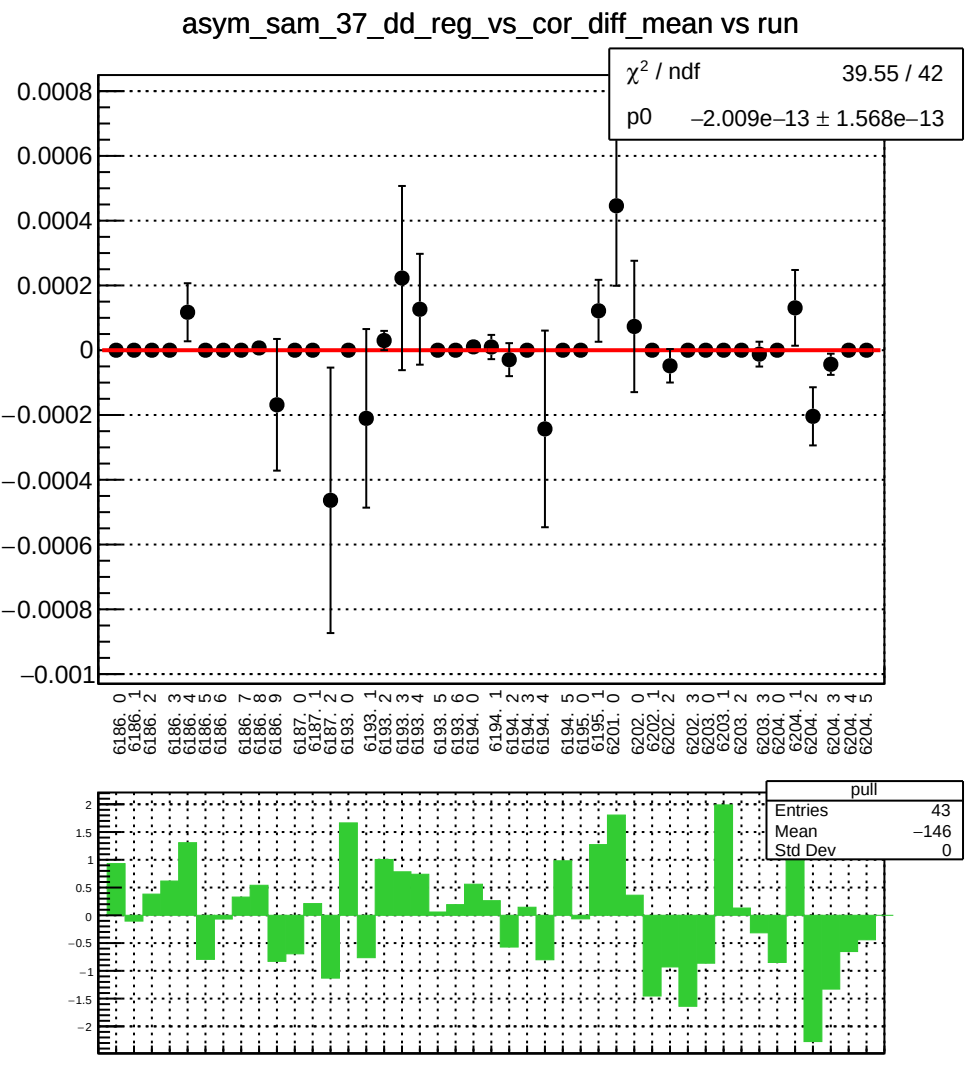
6
8

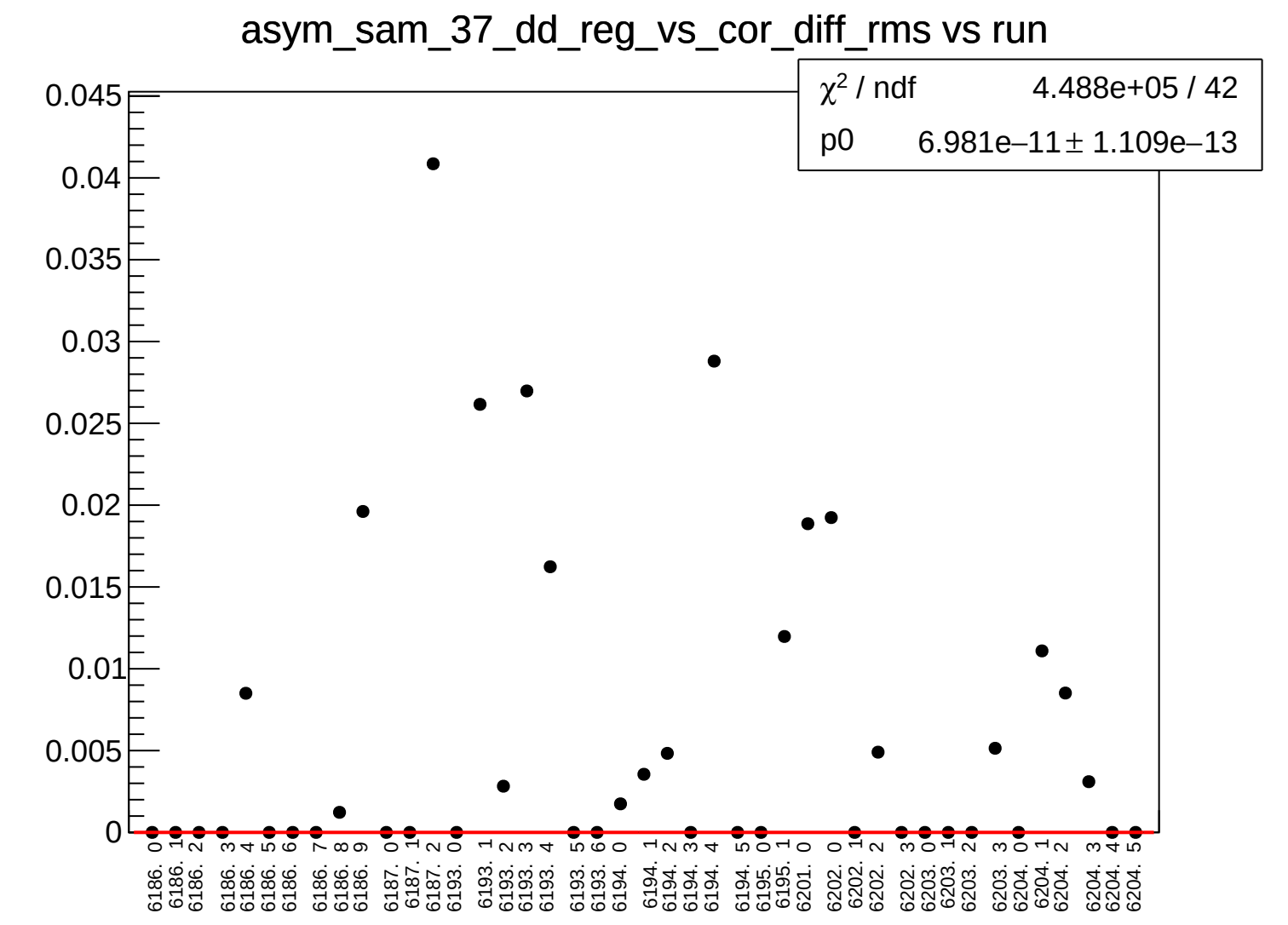

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 4119 / 42
p0 732.5 ± 0.7986
900
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

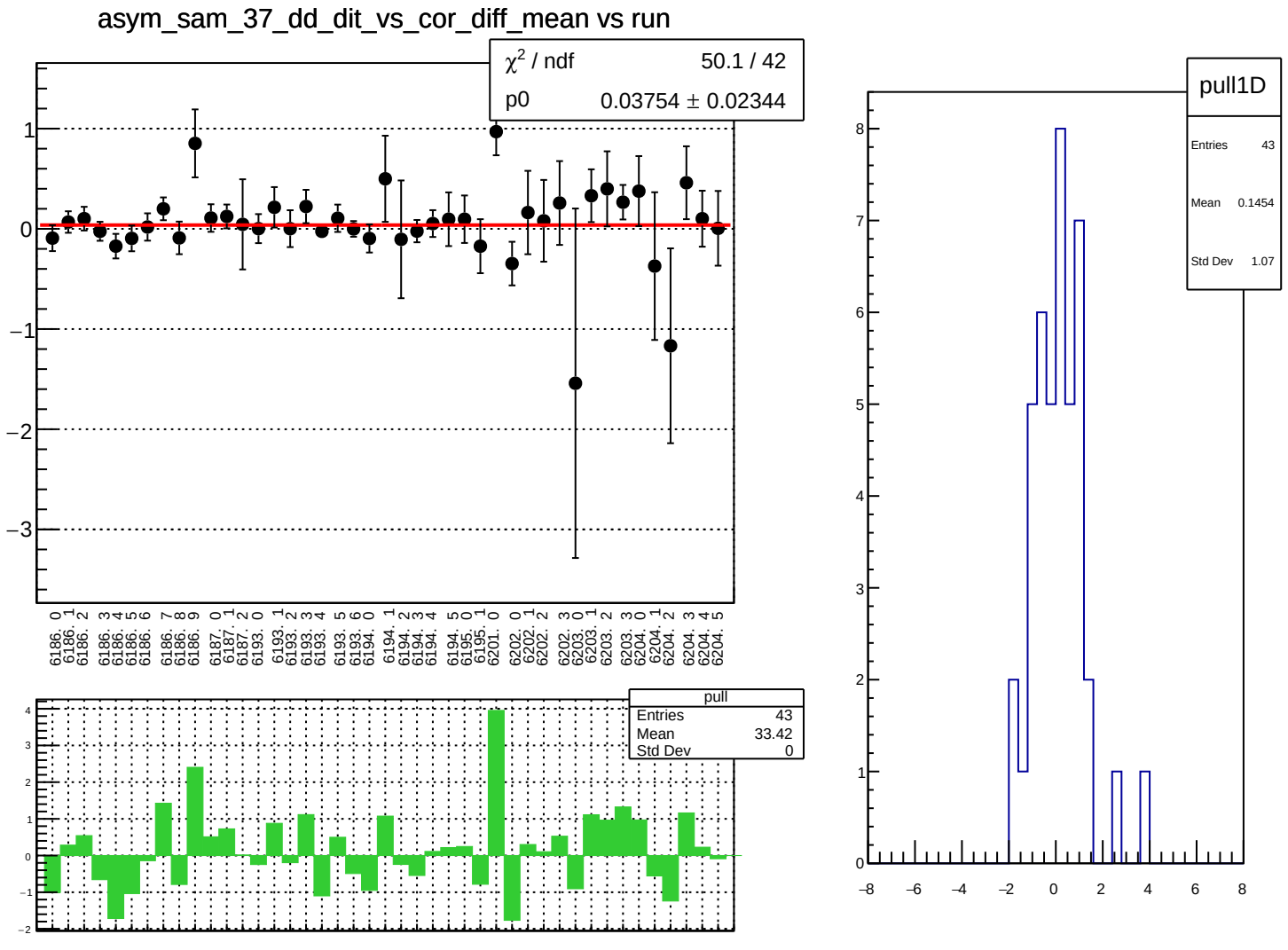

asym_sam_37_dd_mean vs run
χ² / ndf 49.08 / 42
p0 225.7 ± 1153
40000
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −2525
Std Dev 0
2
1
0
−1
−2
−3

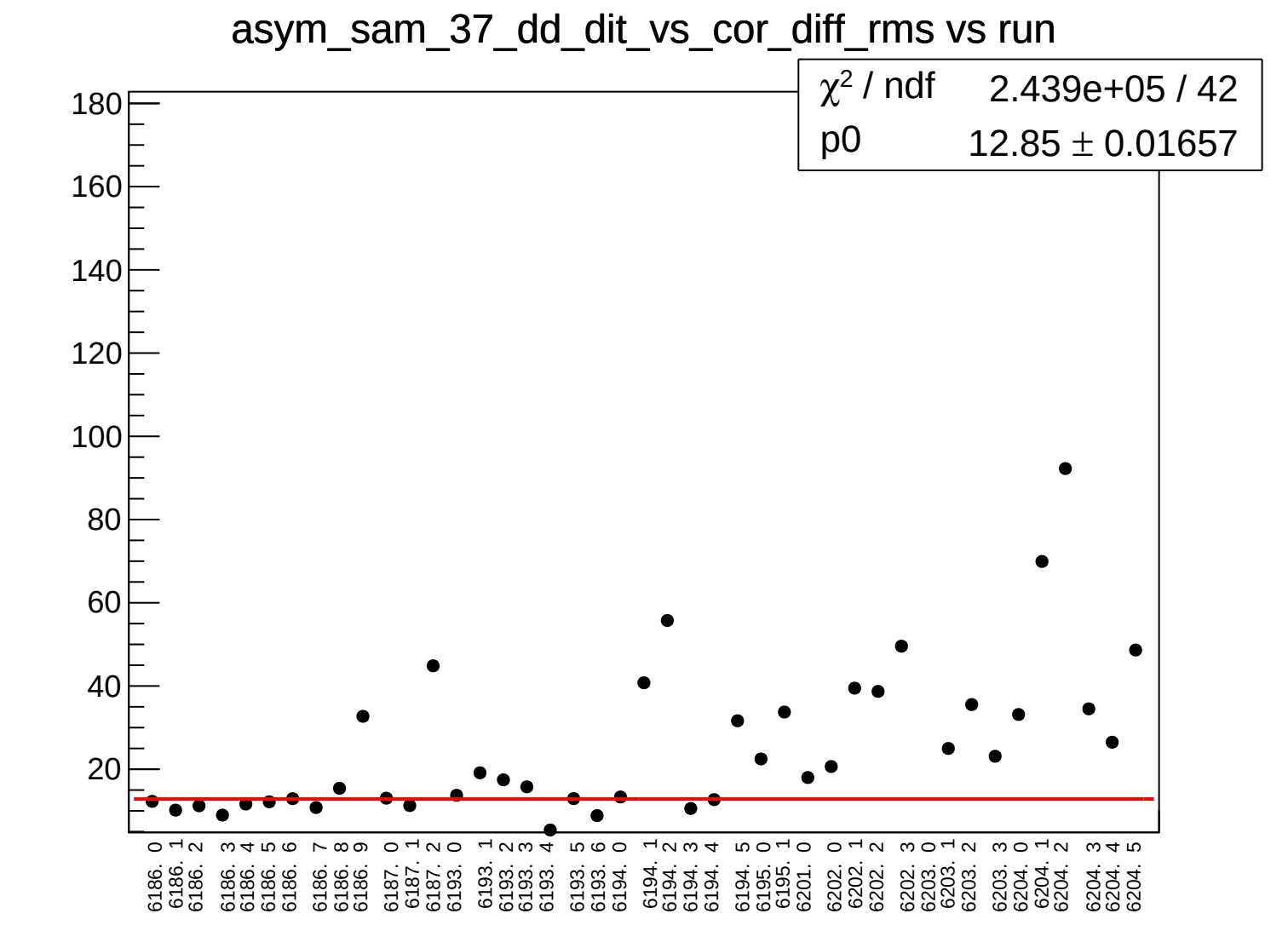

pull1D
Entries 43
Mean −0.0007953
Std Dev 1.068
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

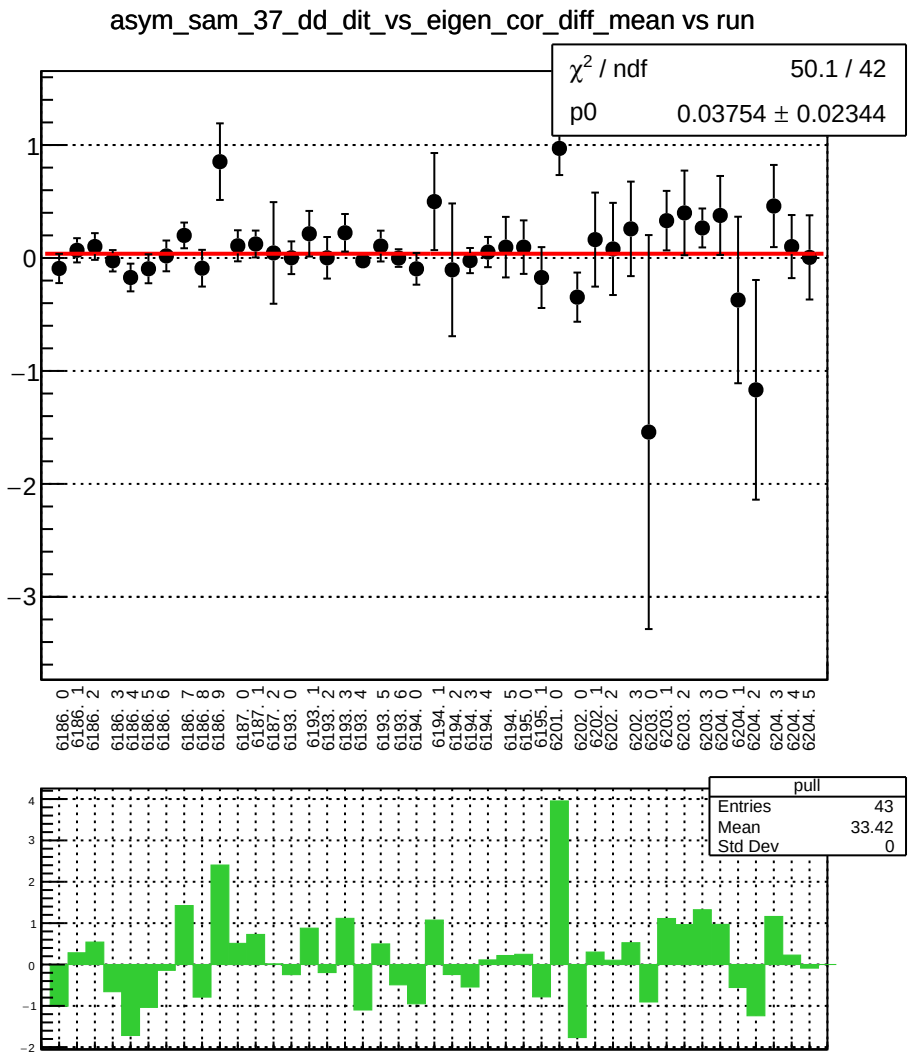

asym_sam_37_dd_rms vs run
χ² / ndf 7019 / 42
p0 746.6 ± 0.8155
1000
900
800
700
600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

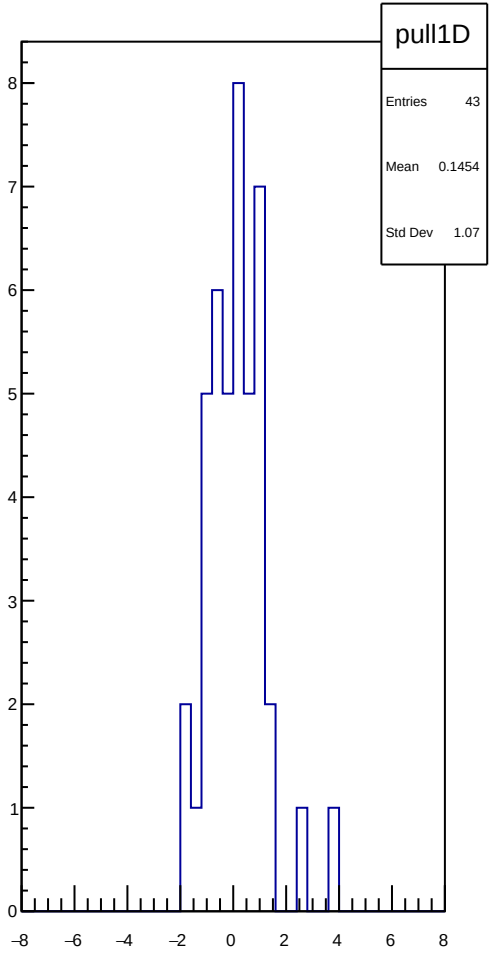

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 39.55 / 42
p0 −2.009e−13 ± 1.568e−13
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −146
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01931
Std Dev 0.9589
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

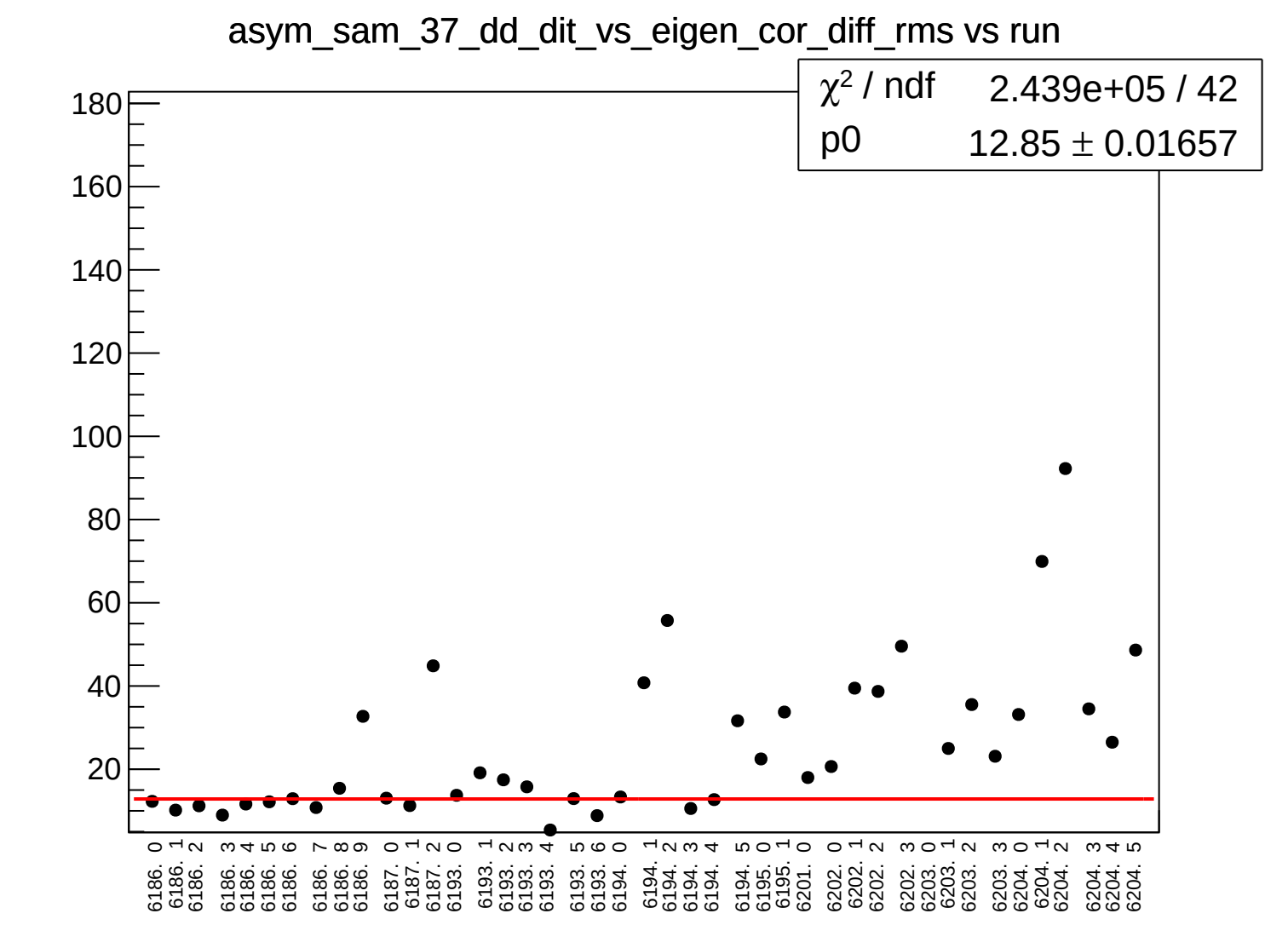

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.488e+05 / 42
p0 6.981e−11 ± 1.109e−13
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

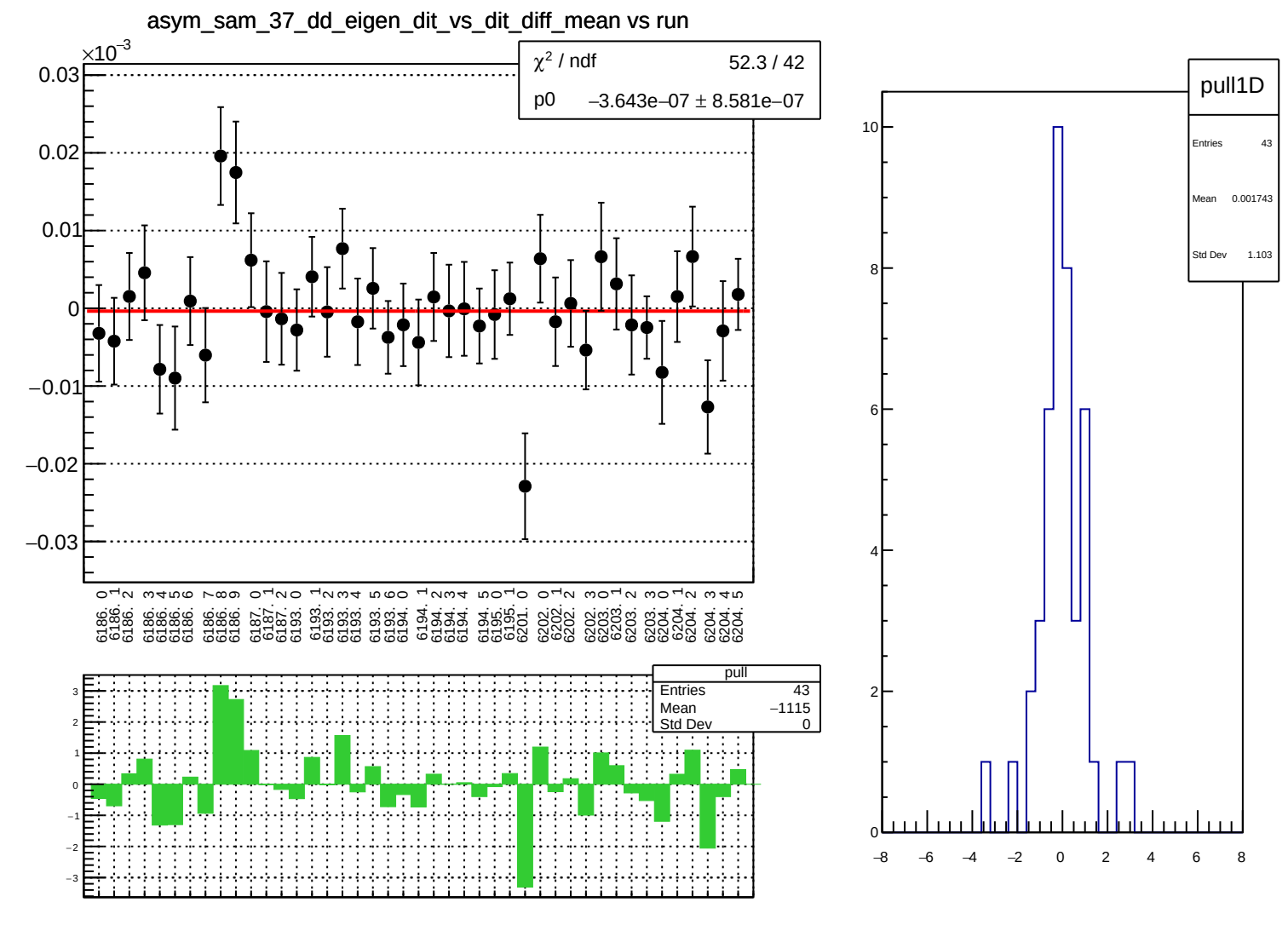

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 50.1 / 42
p0 0.03754 ± 0.02344
pull
Entries 43
Mean 33.42
Std Dev 0
pull1D
Entries 43
Mean 0.1454
Std Dev 1.07

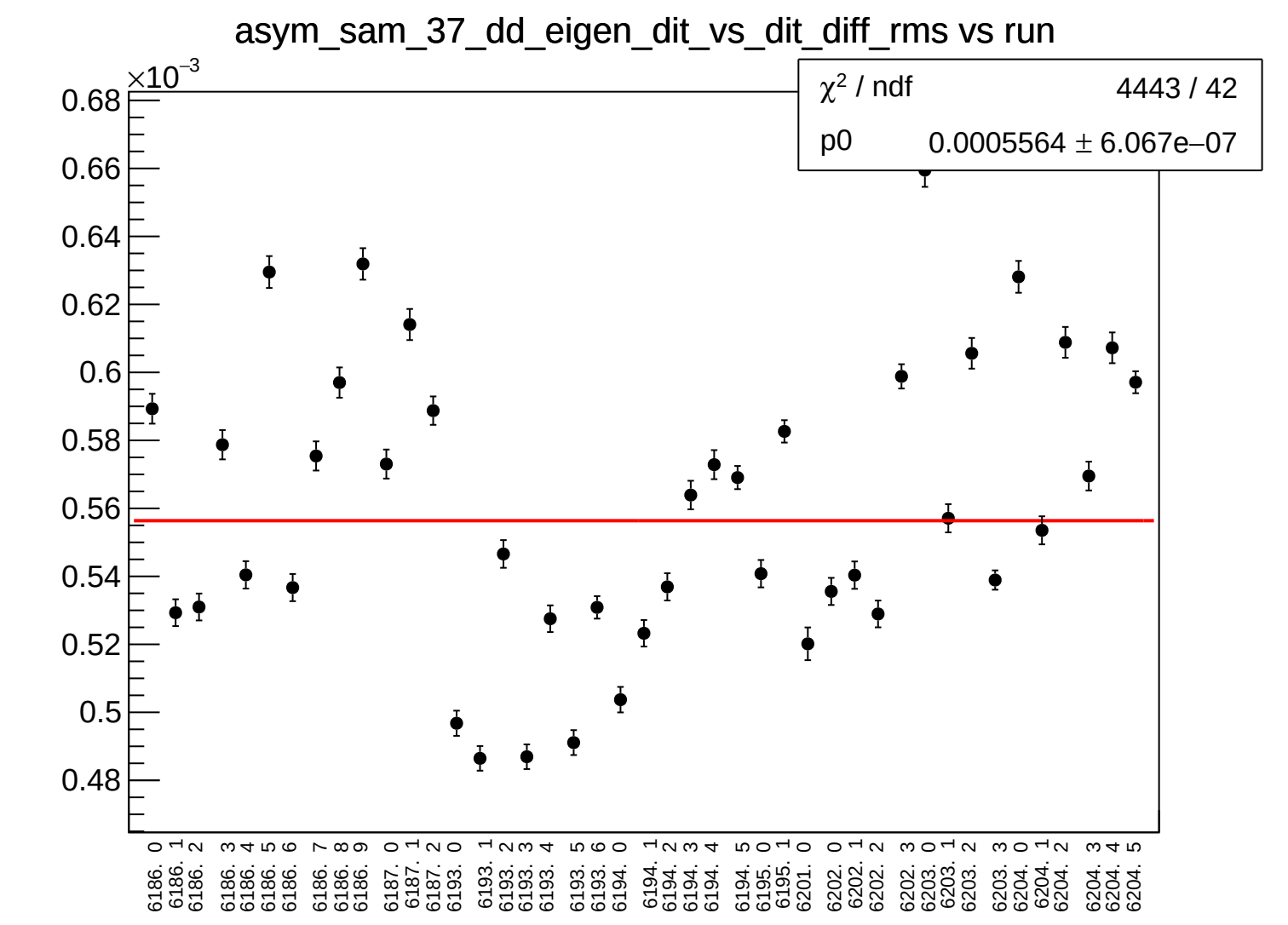

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.439e+05 / 42
p0 12.85 ± 0.01657
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

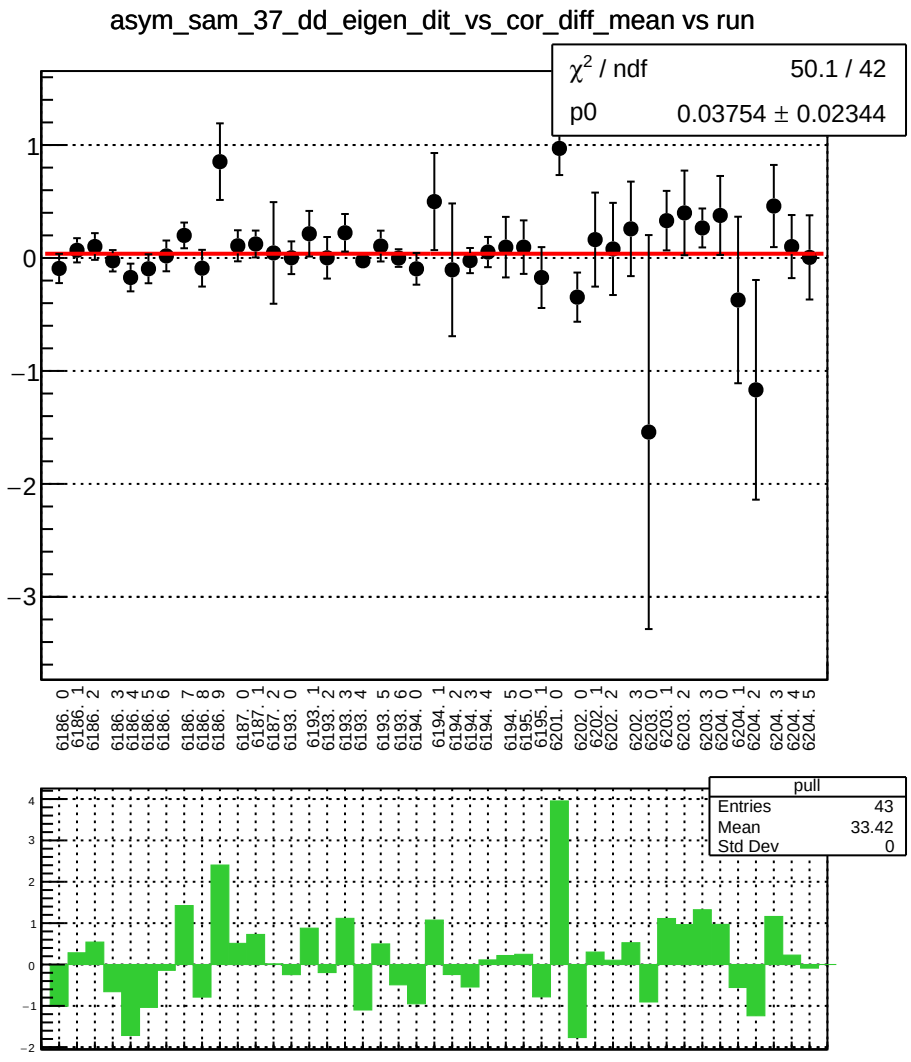

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.1 / 42
p0 0.03754 ± 0.02344
pull
Entries 43
Mean 33.42
Std Dev 0

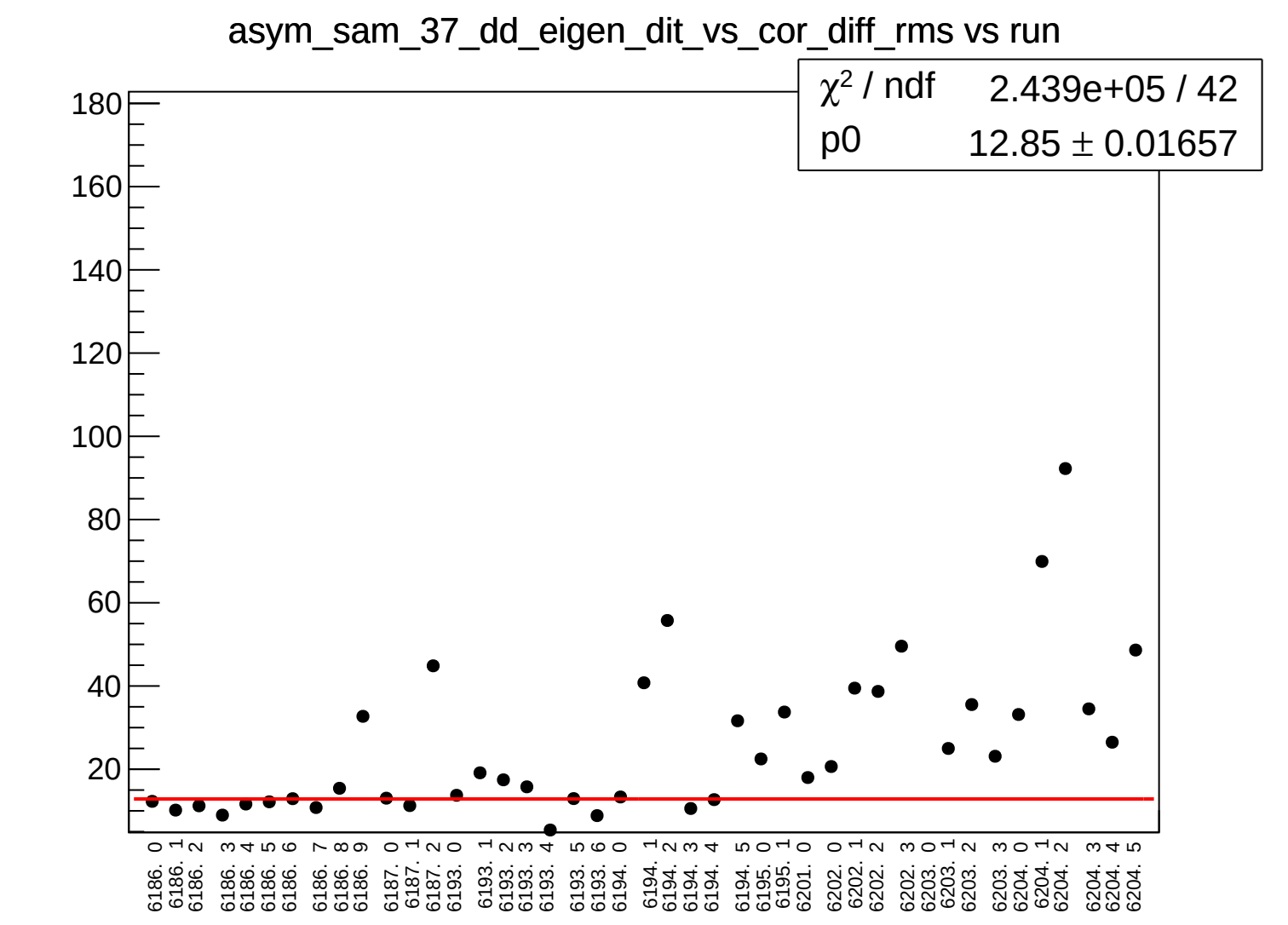

pull1D
Entries 43
Mean 0.1454
Std Dev 1.07

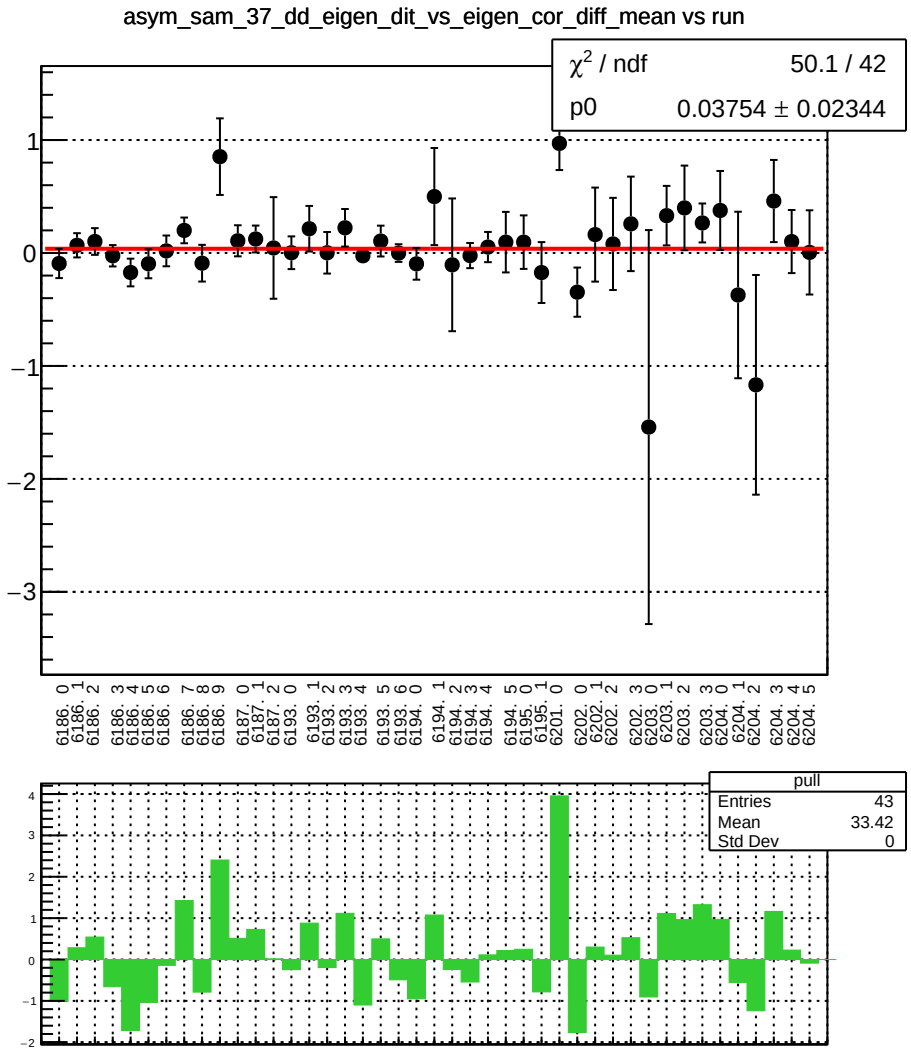

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.439e+05 / 42
p0 12.85 ± 0.01657
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

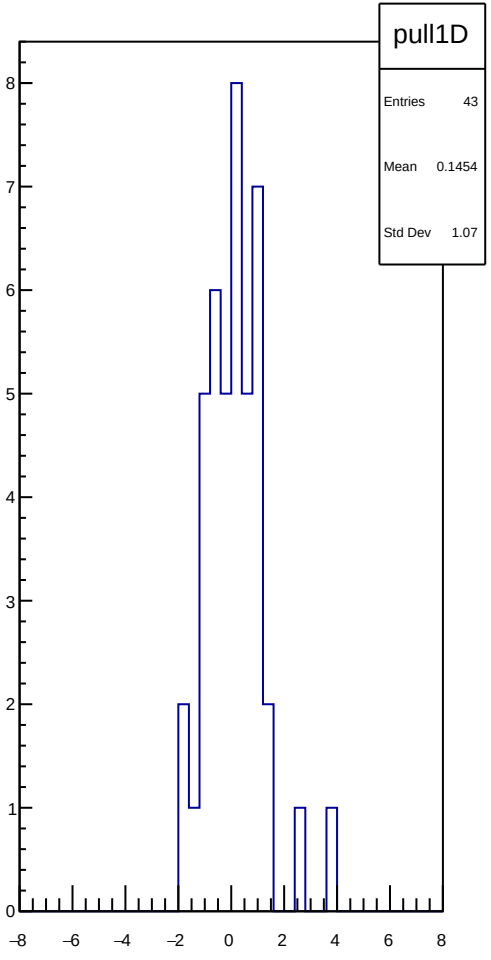

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 52.3 / 42
p0 −3.643e−07 ± 8.581e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1115
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.001743
Std Dev 1.103
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

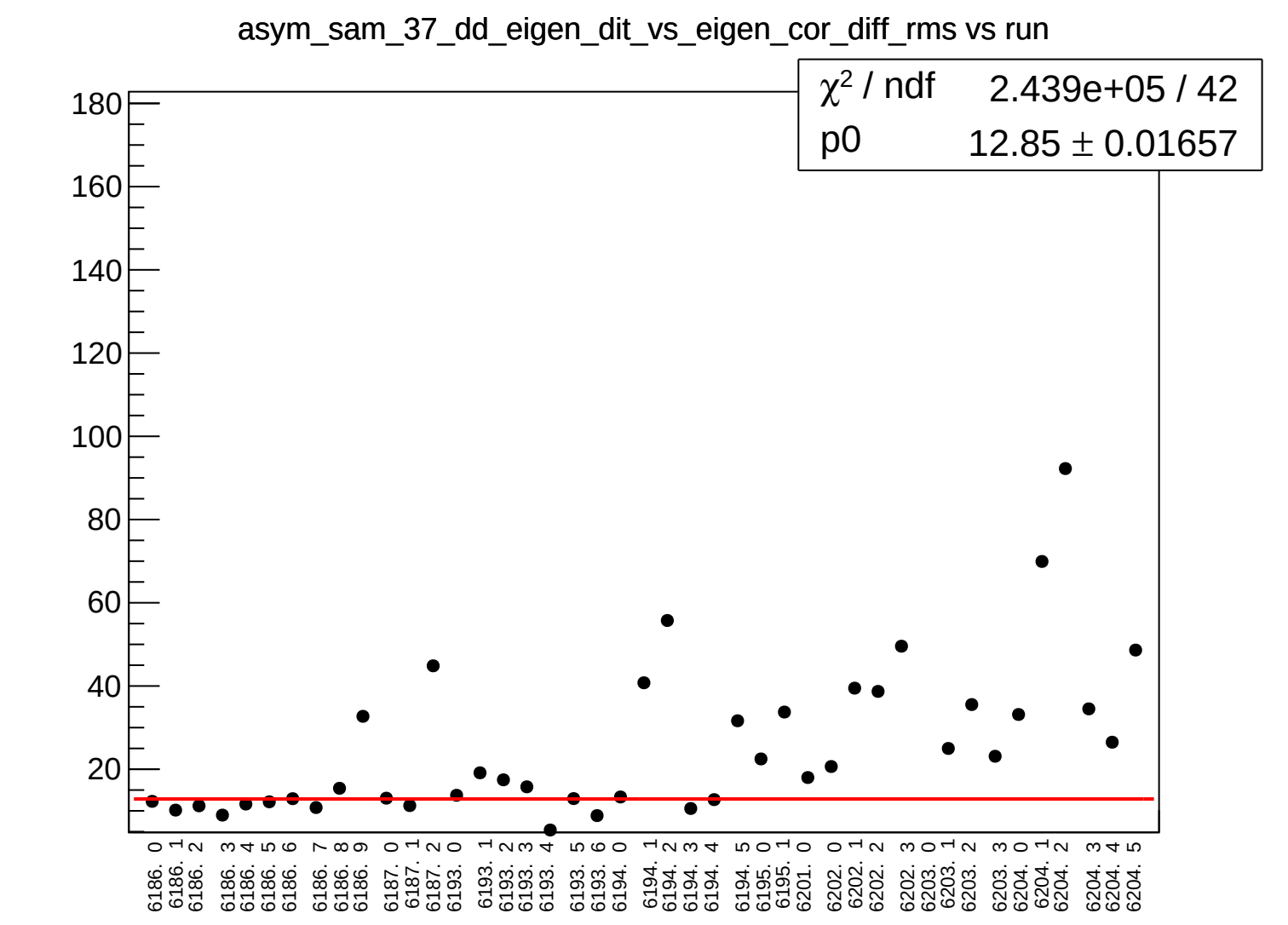

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 4443 / 42
p0 0.0005564 ± 6.067e−07
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

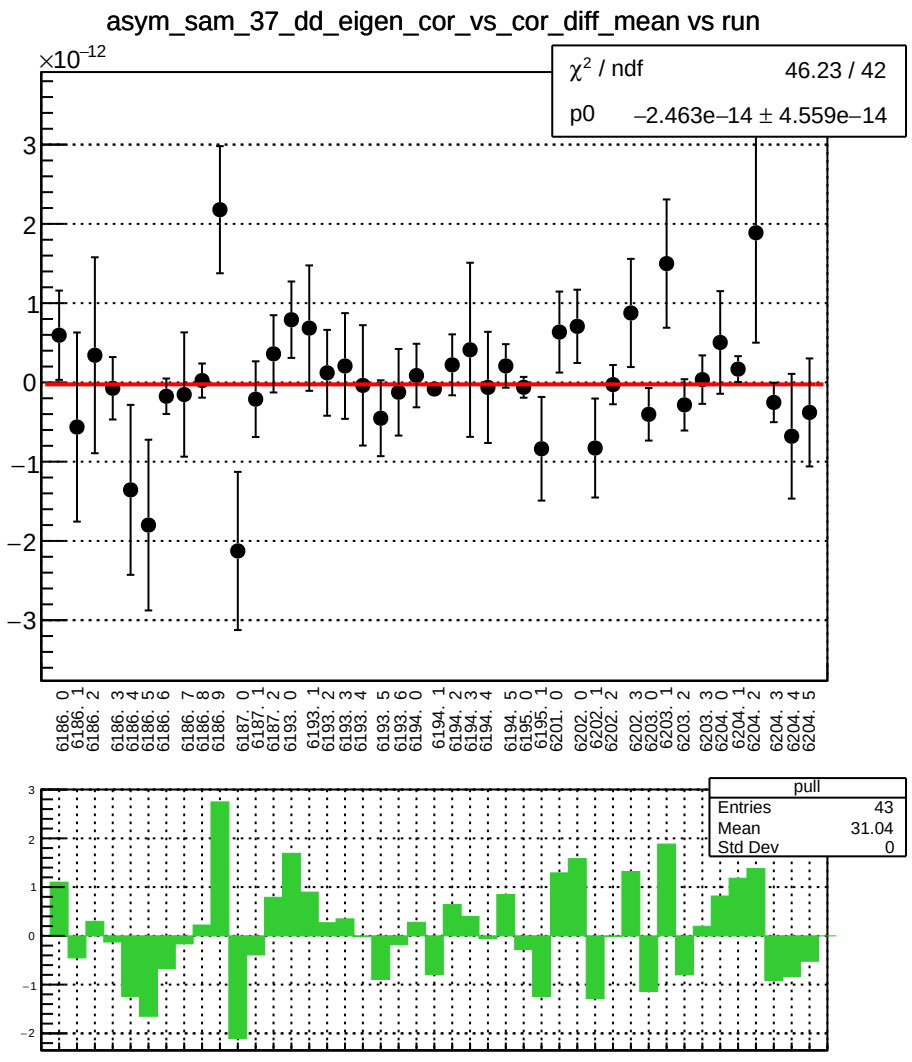

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.1 / 42
p0 0.03754 ± 0.02344
pull
Entries 43
Mean 33.42
Std Dev 0
pull1D
Entries 43
Mean 0.1454
Std Dev 1.07

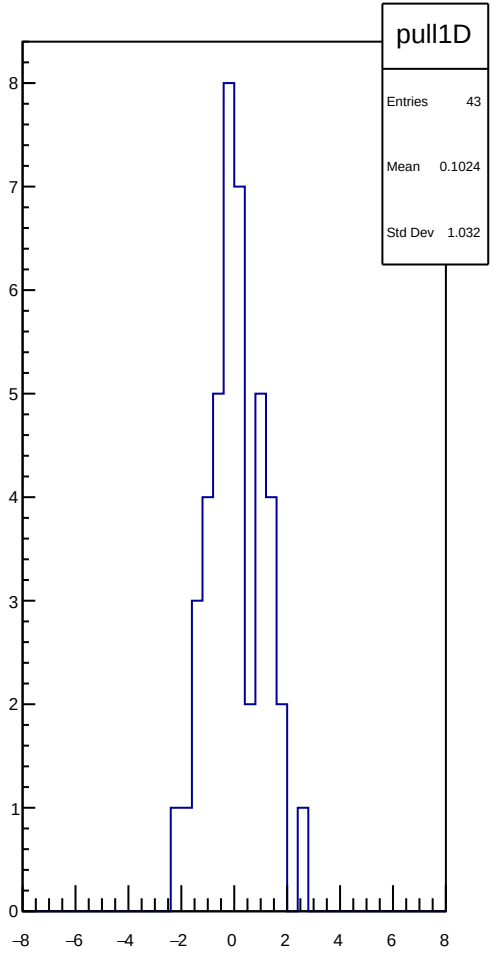

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.439e+05 / 42
p0 12.85 ± 0.01657
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

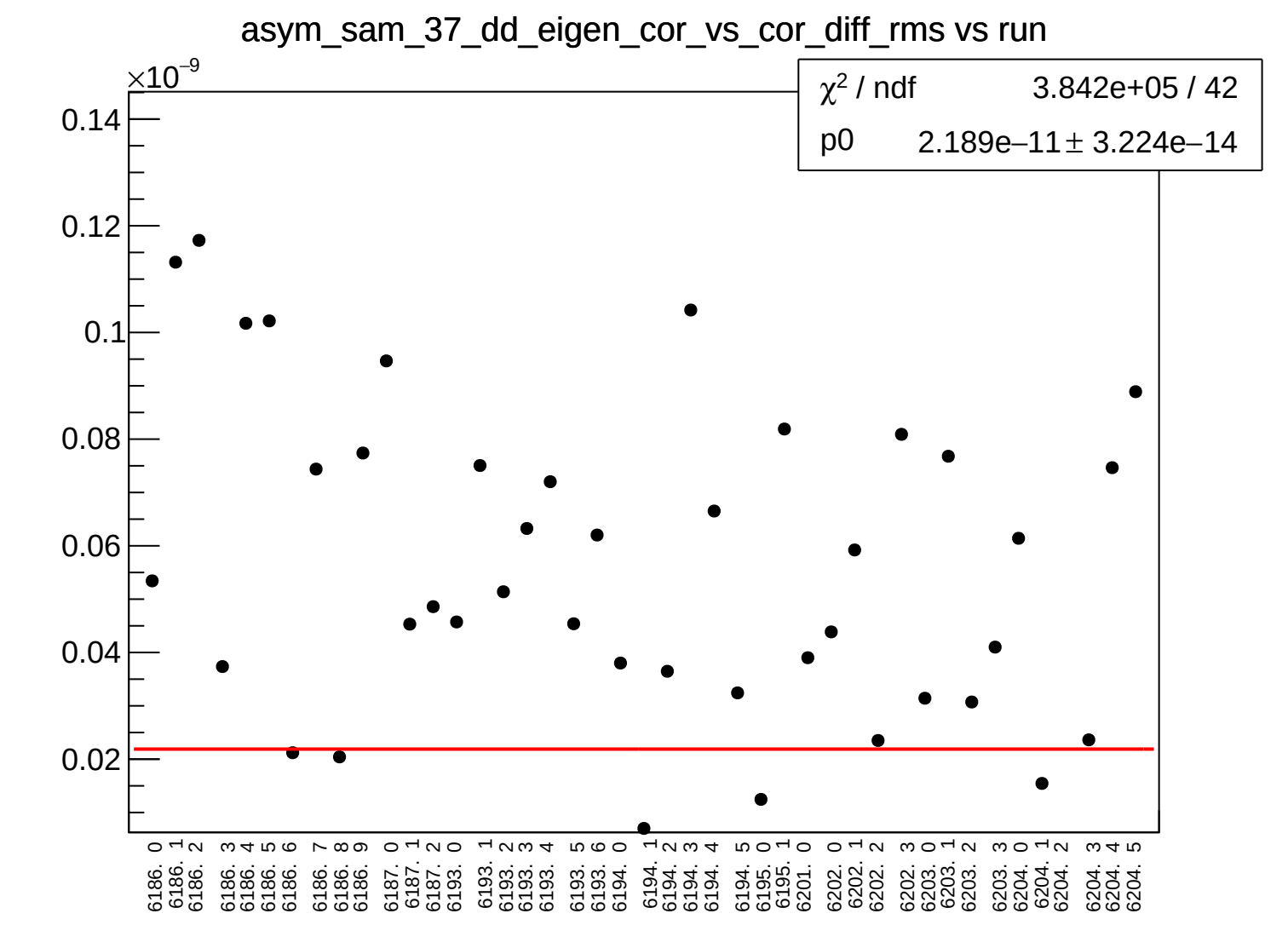

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.1 / 42
p0 0.03754 ± 0.02344
pull
Entries 43
Mean 33.42
Std Dev 0

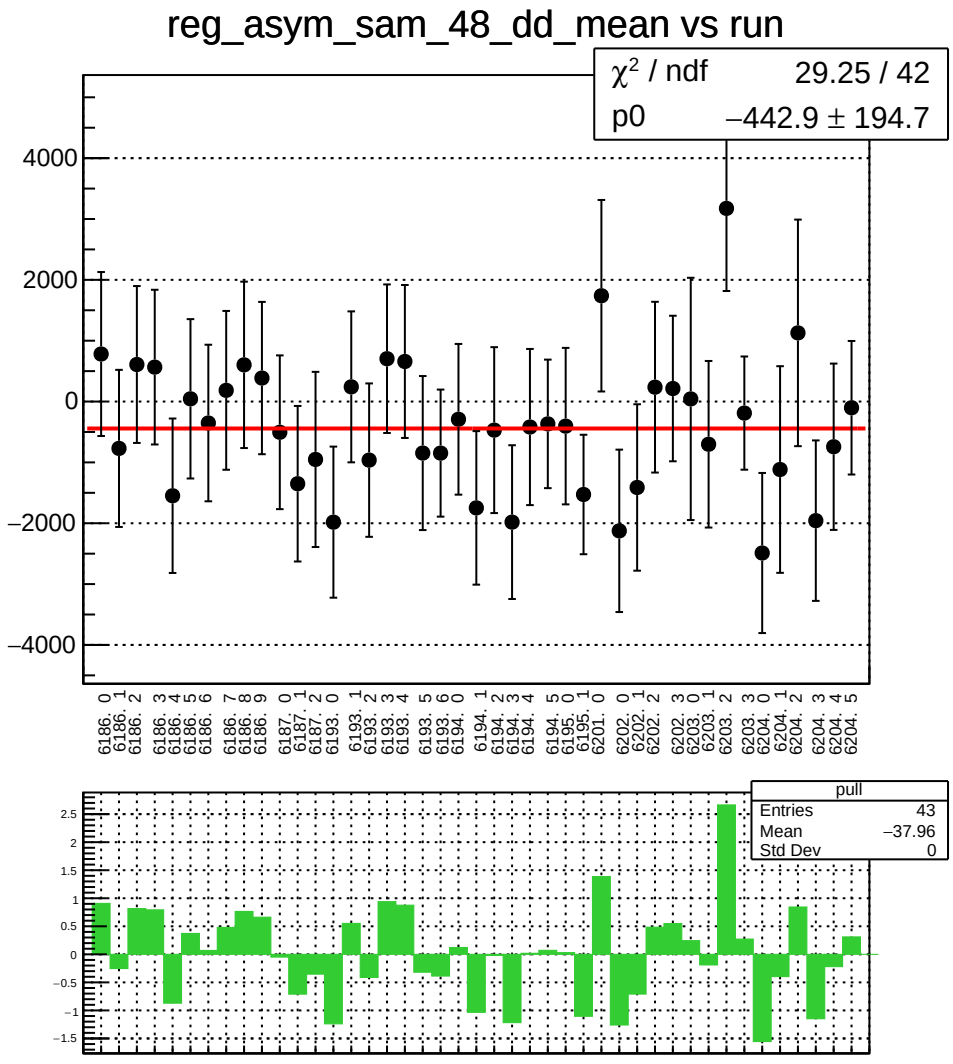

pull1D
Entries 43
Mean 0.1454
Std Dev 1.07

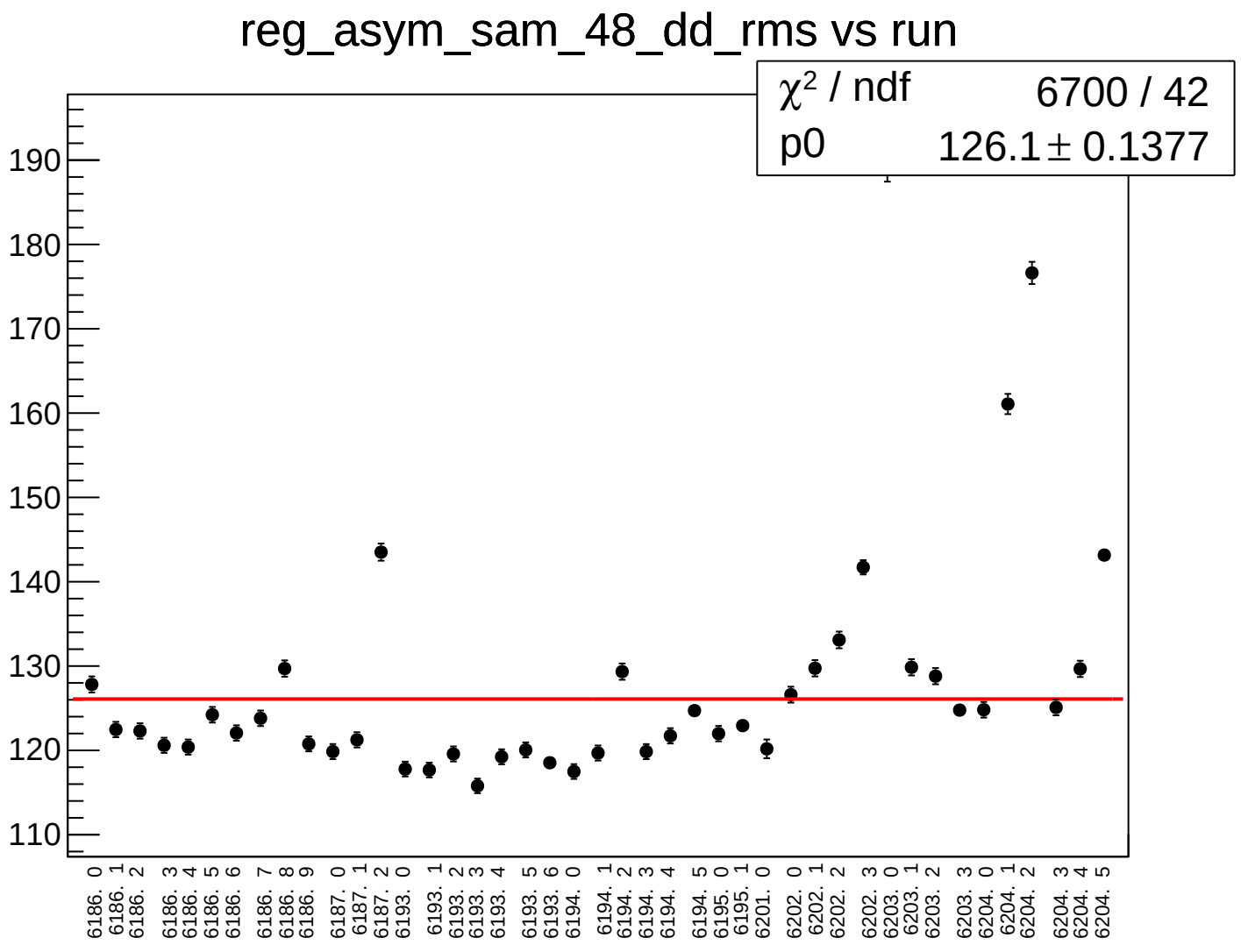

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.439e+05 / 42
p0 12.85 ± 0.01657
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 46.23 / 42
p0 −2.463e−14 ± 4.559e−14
pull
Entries 43
Mean 31.04
Std Dev 0


pull1D
Entries 43
Mean 0.1024
Std Dev 1.032


asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.842e+05 / 42
p0 2.189e−11 ± 3.224e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_sam_48_dd_mean vs run
χ² / ndf 29.25 / 42
p0 −442.9 ± 194.7
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −37.96
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01823
Std Dev 0.8246
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_dd_rms vs run
χ² / ndf 6700 / 42
p0 126.1 ± 0.1377
190
180
170
160
150
140
130
120
110
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
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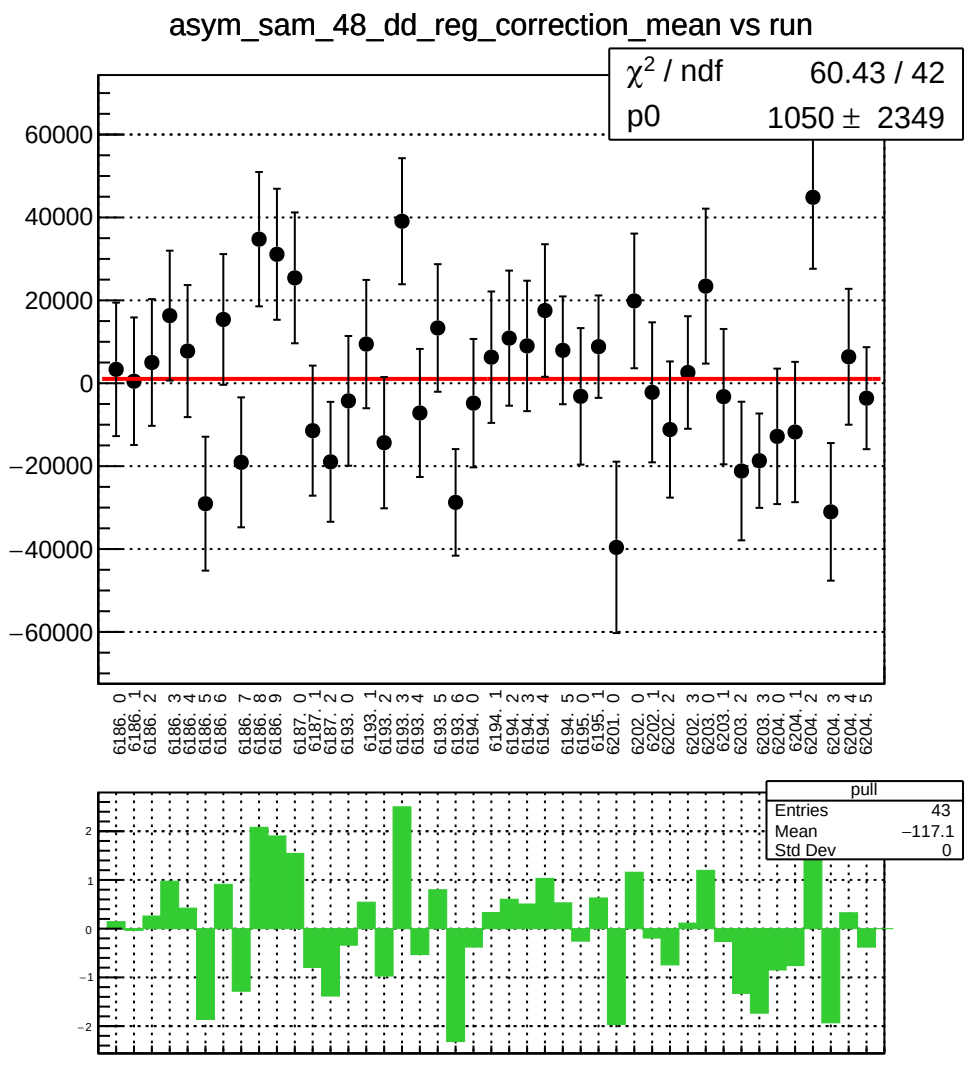
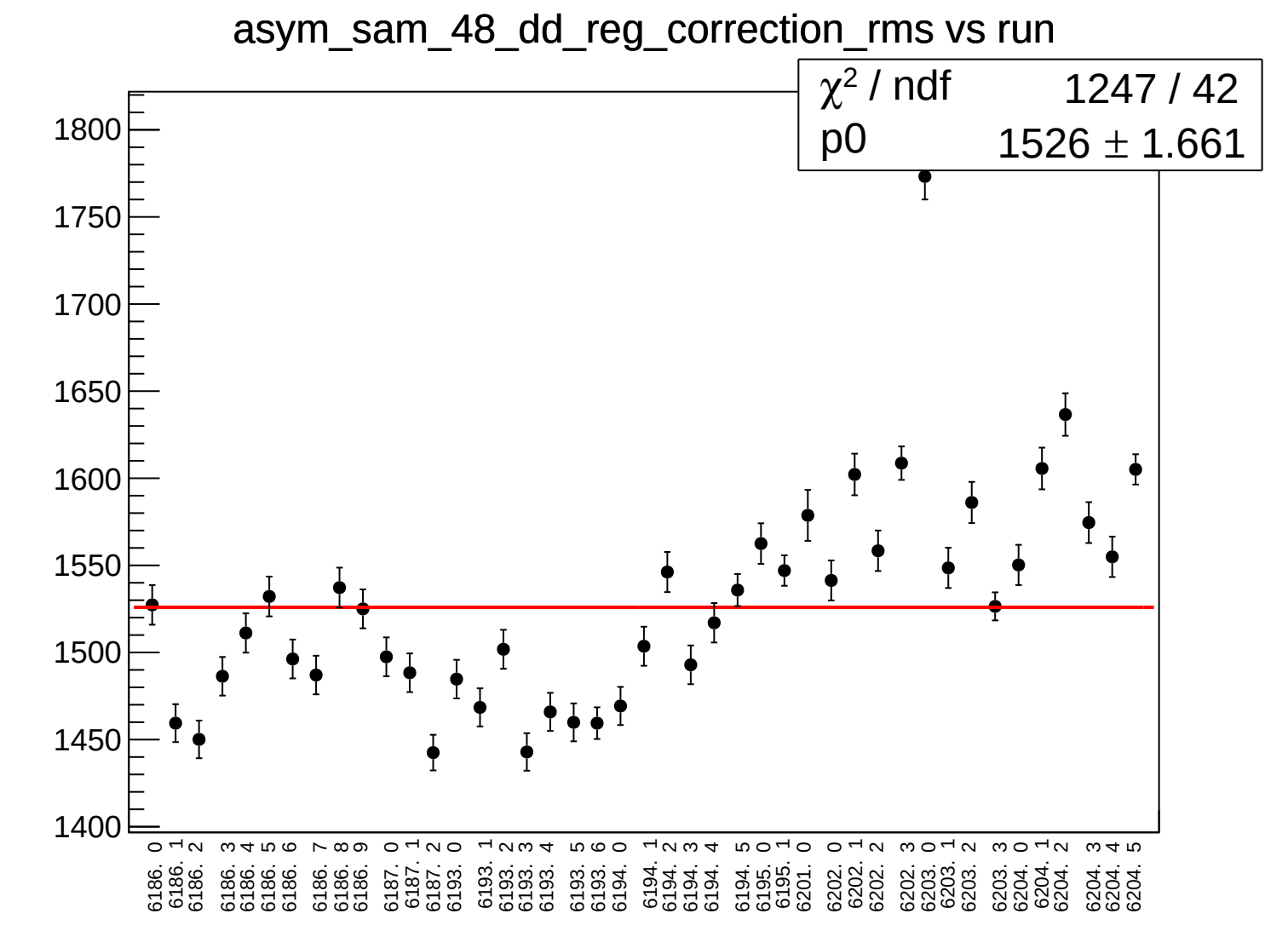
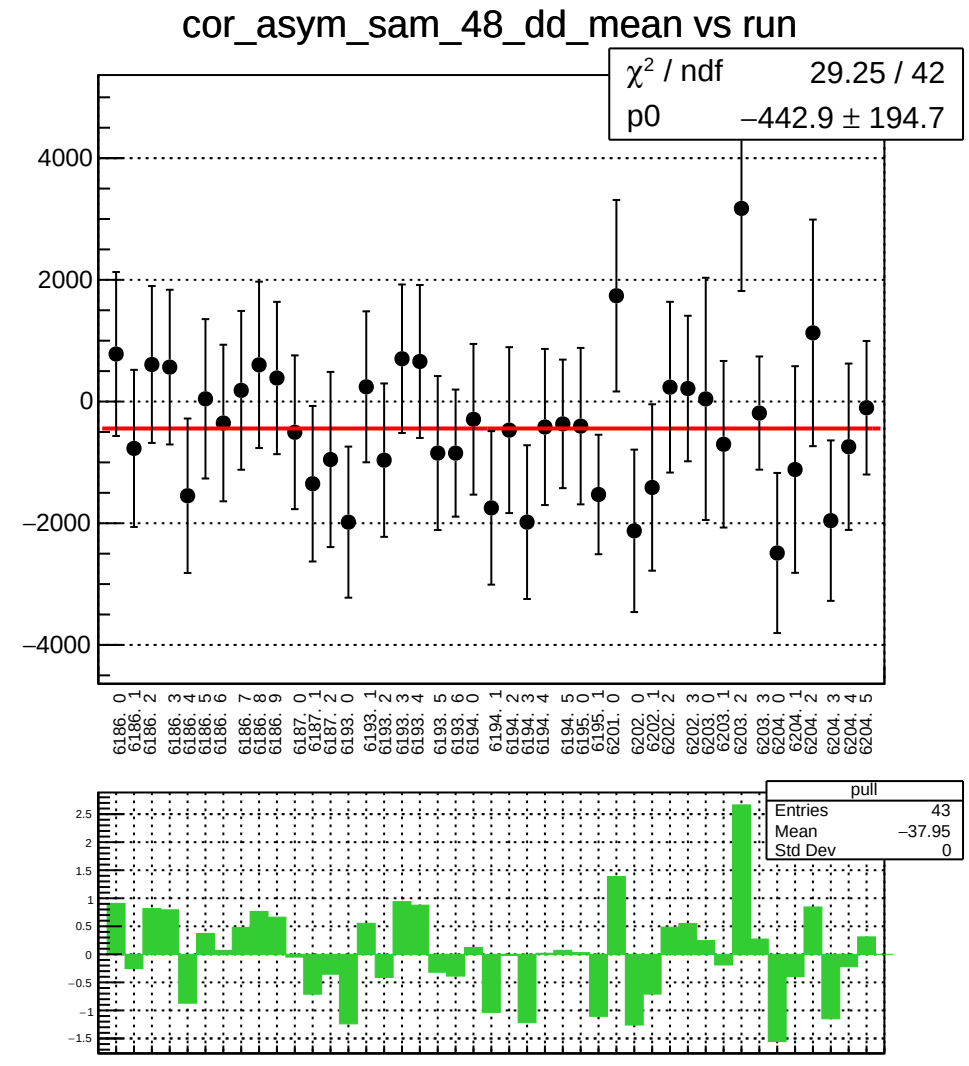
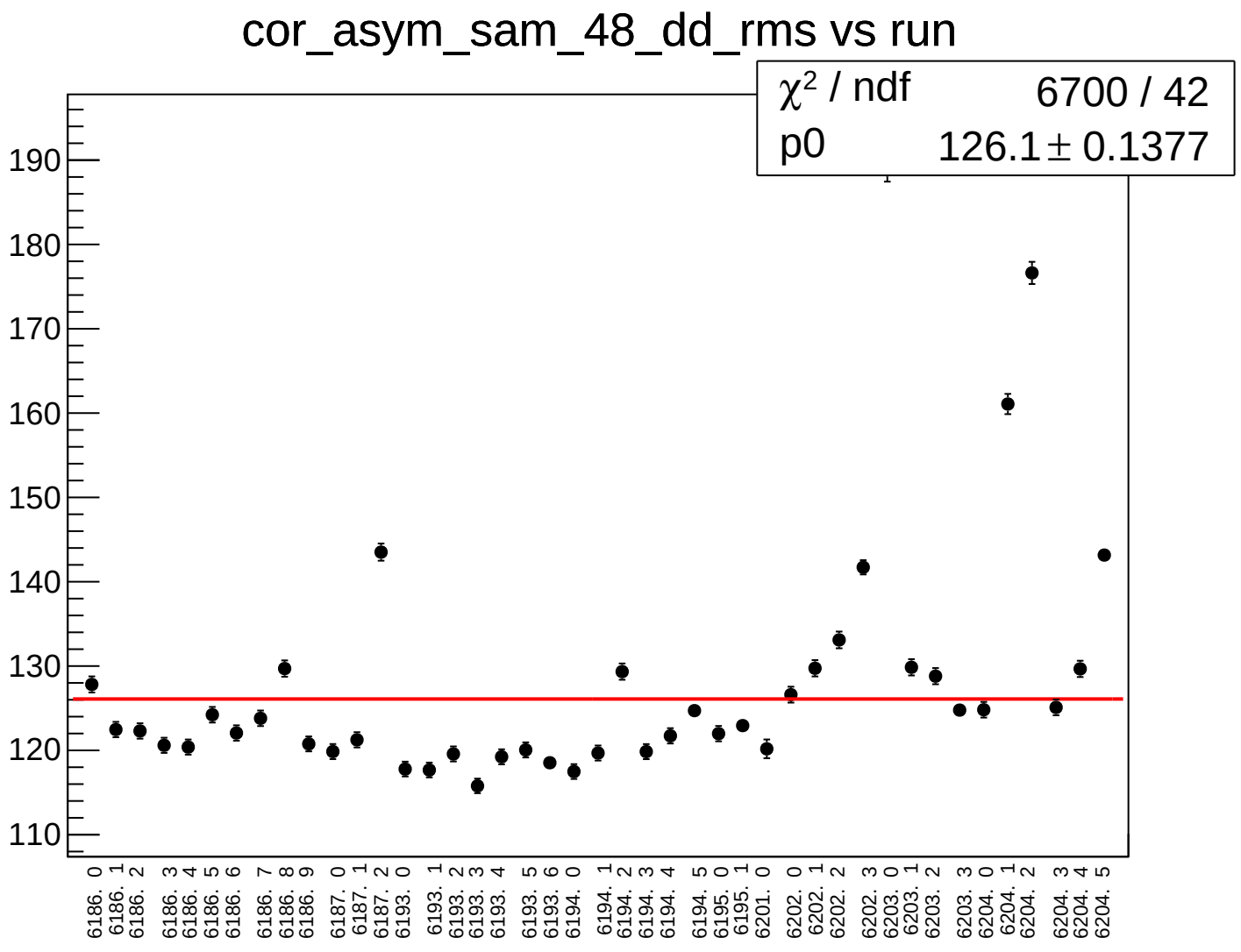
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 60.43 / 42
p0 1050 ± 2349
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −117.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01725
Std Dev 1.185
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 1247 / 42
p0 1526 ± 1.661
1800
1750
1700
1650
1600
1550
1500
1450
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_sam_48_dd_mean vs run
χ² / ndf 29.25 / 42
p0 −442.9 ± 194.7
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −37.95
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01822
Std Dev 0.8246
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 6700 / 42
p0 126.1 ± 0.1377
190
180
170
160
150
140
130
120
110
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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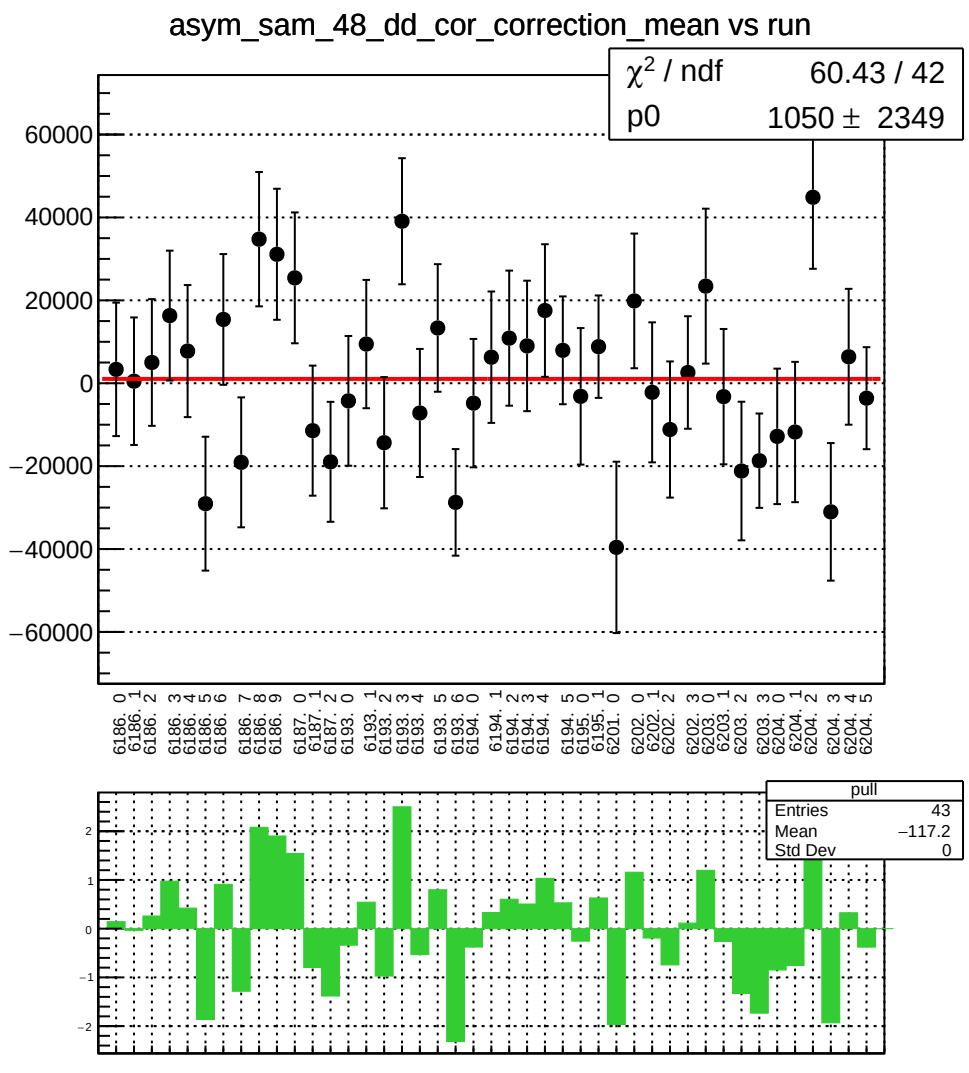
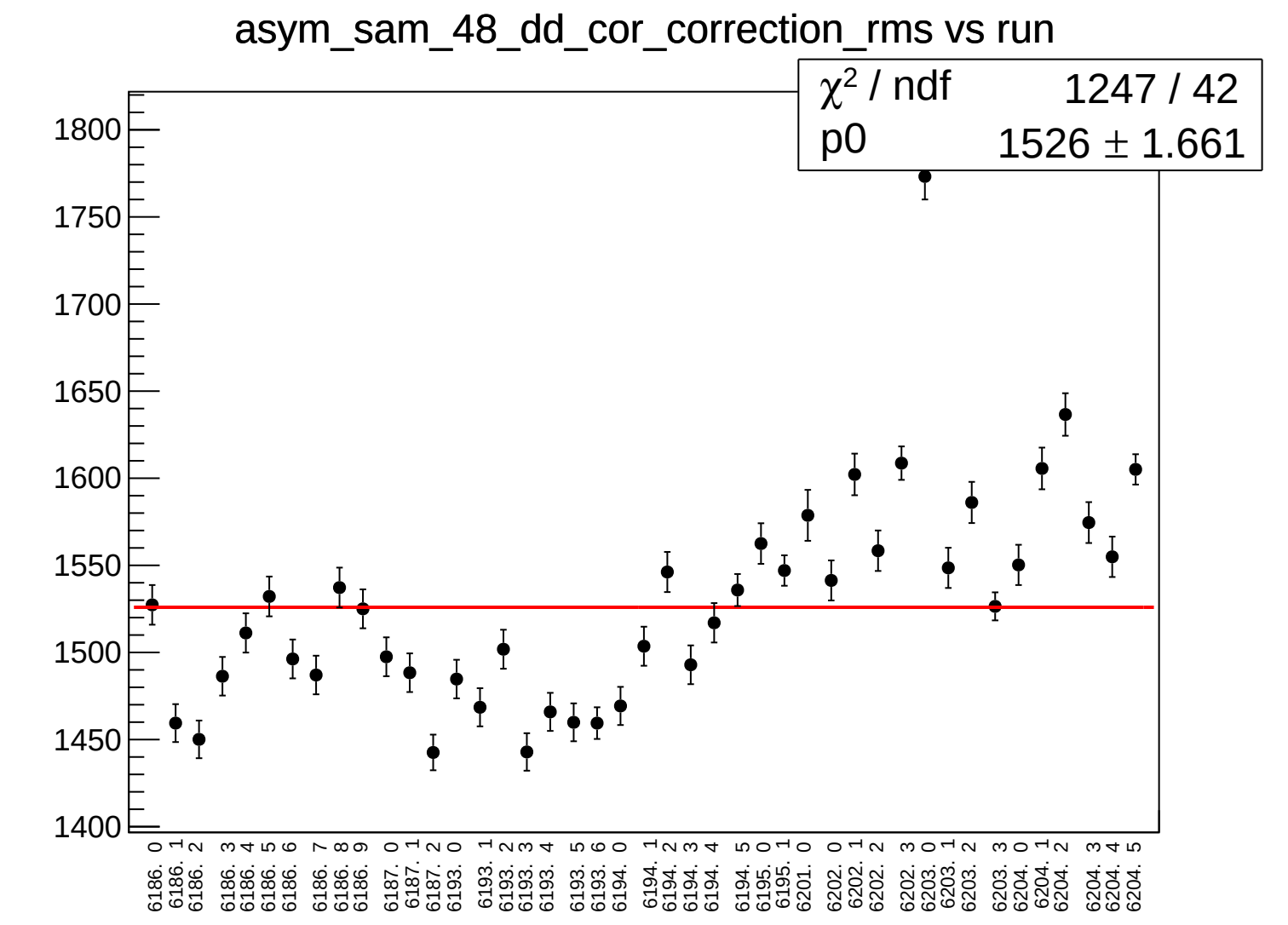
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 60.43 / 42
p0 1050 ± 2349
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −117.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01725
Std Dev 1.185
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1247 / 42
p0 1526 ± 1.661
1800
1750
1700
1650
1600
1550
1500
1450
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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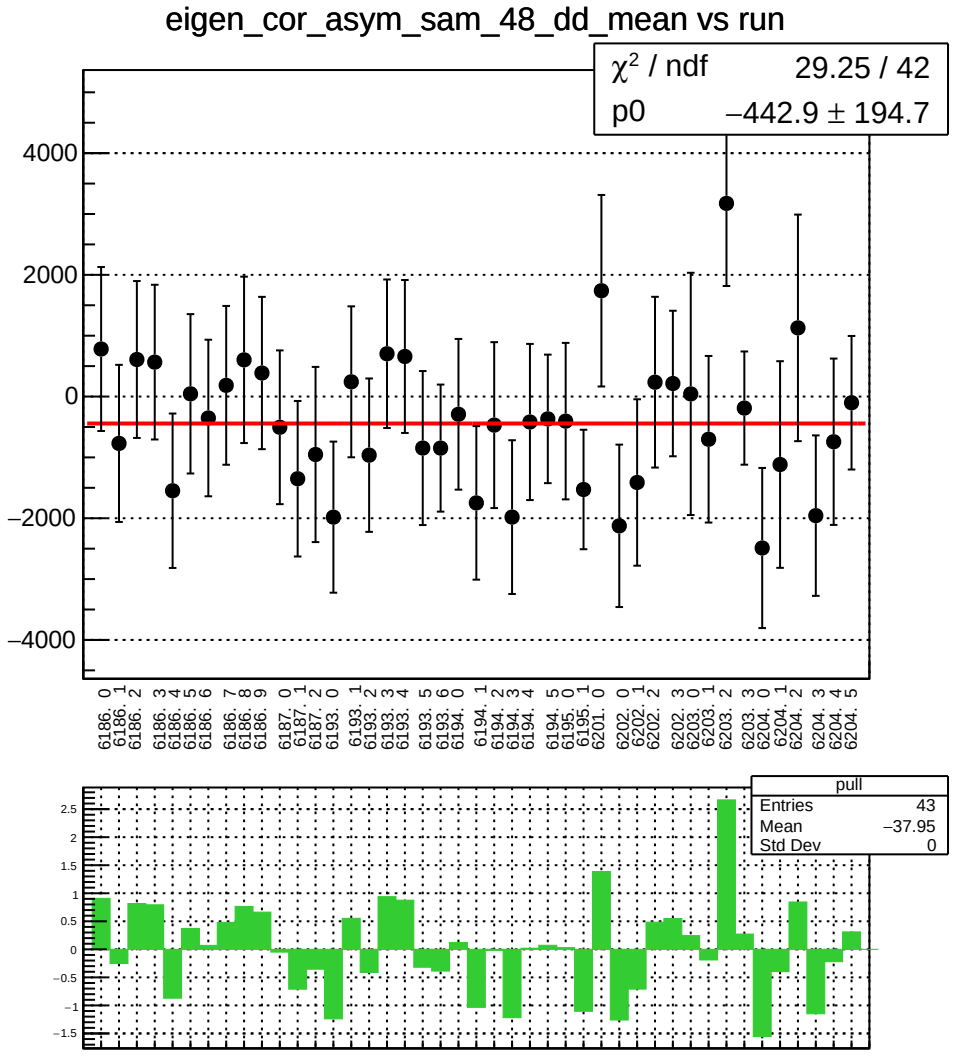
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 29.25 / 42
p0 −442.9 ± 194.7
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −37.95
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01822
Std Dev 0.8246
9
8
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3
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1
0
−8
−6
−4
−2
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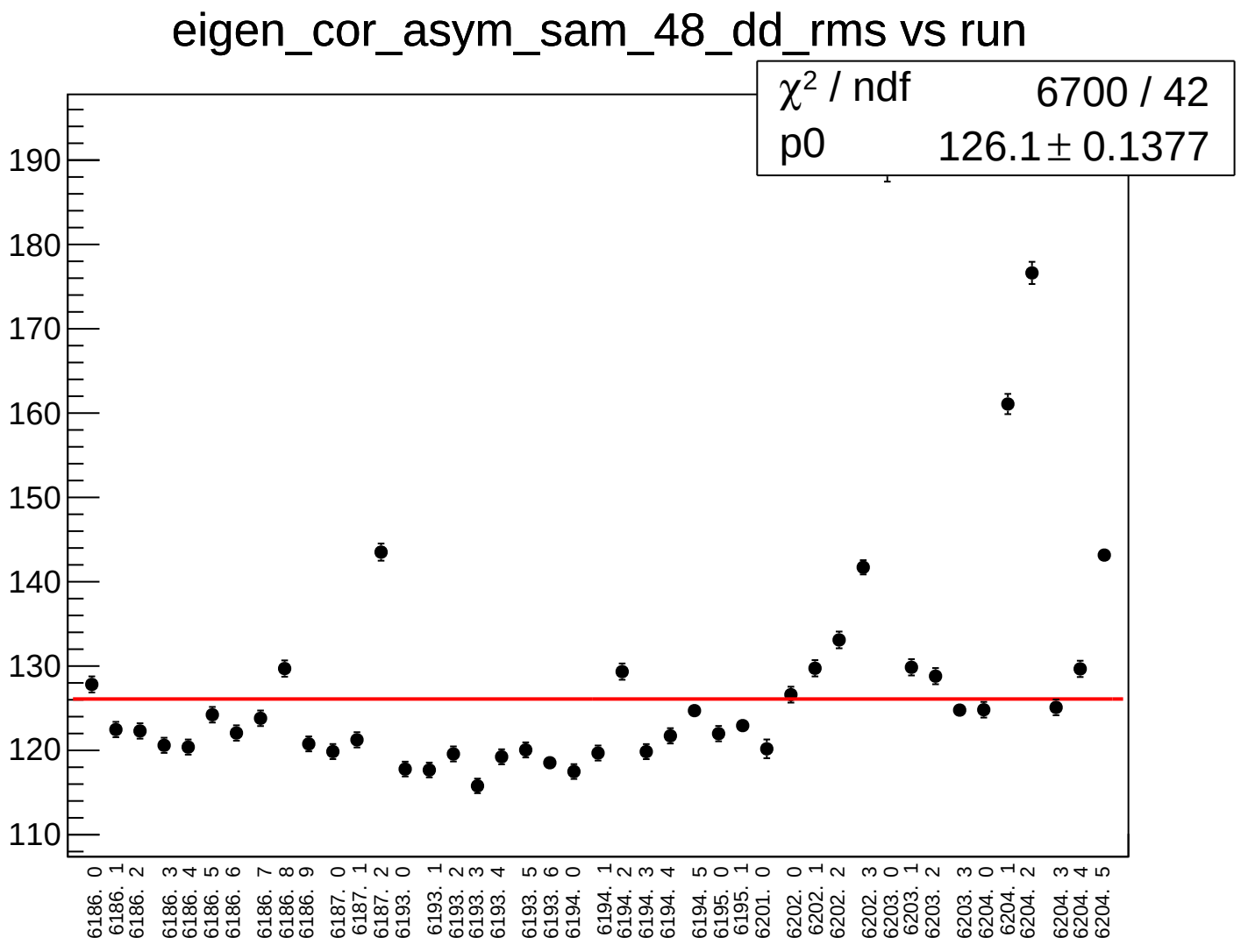
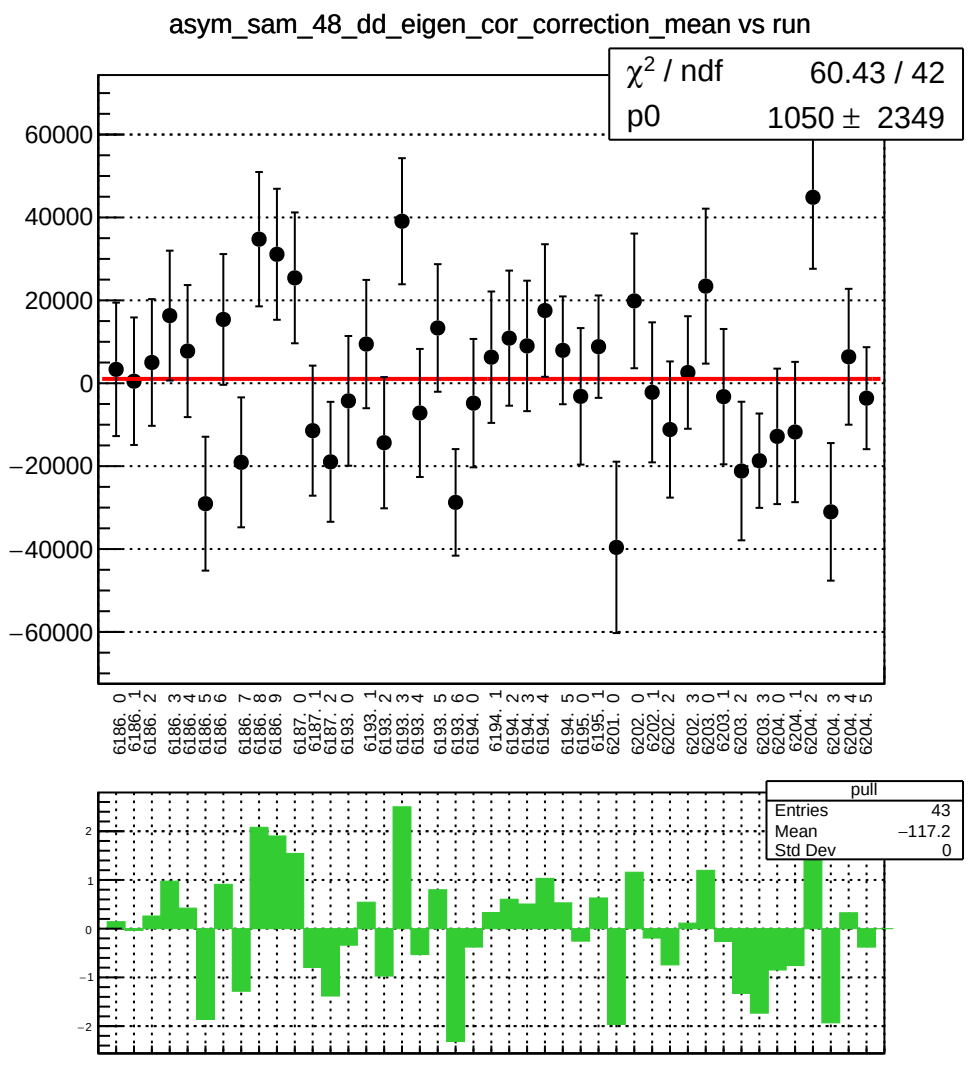
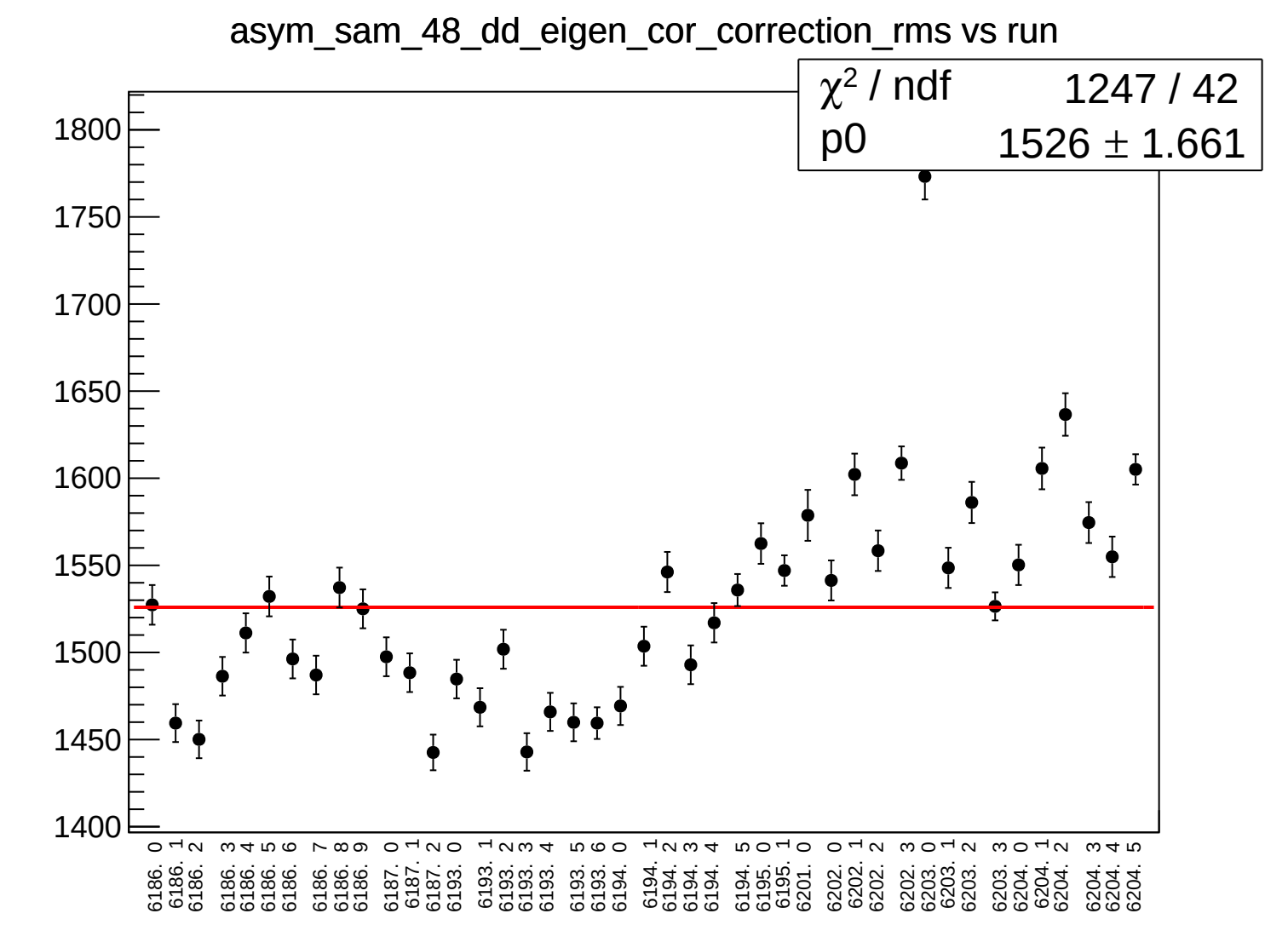
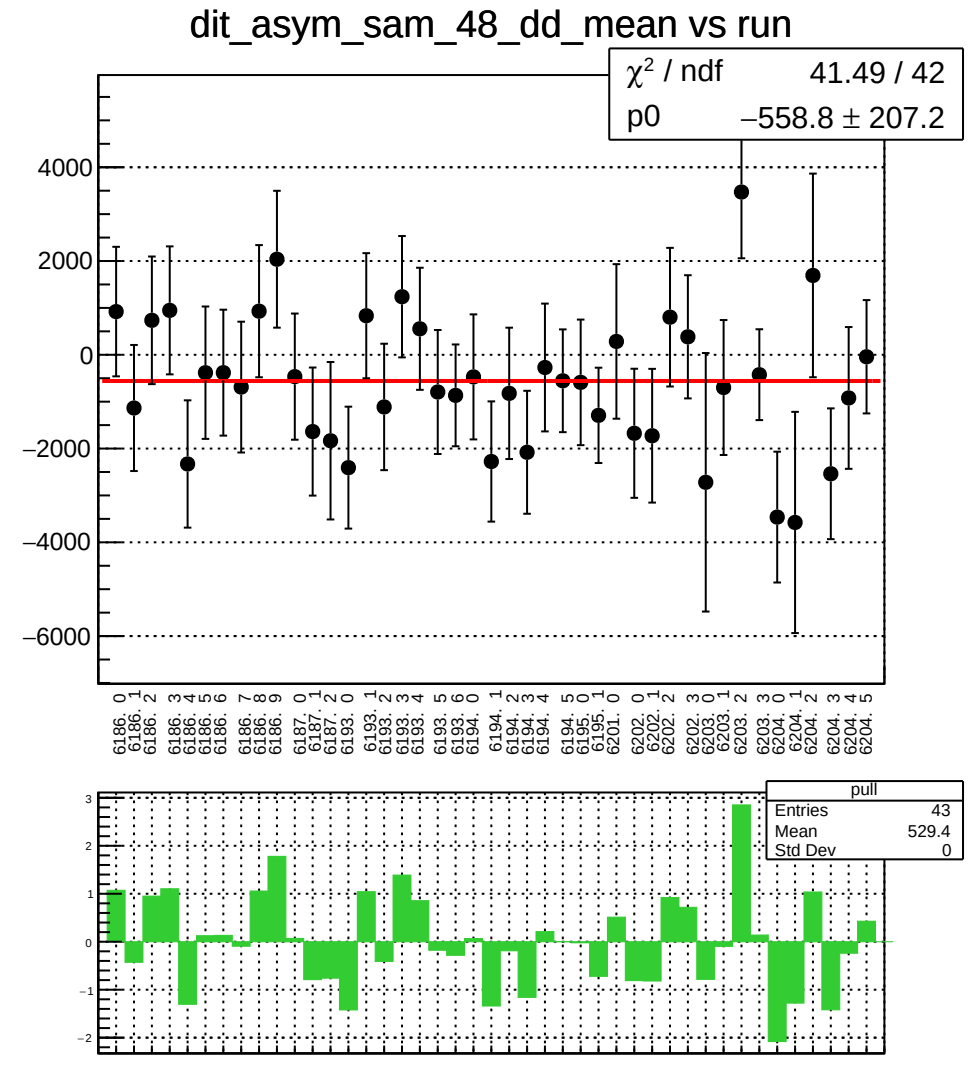
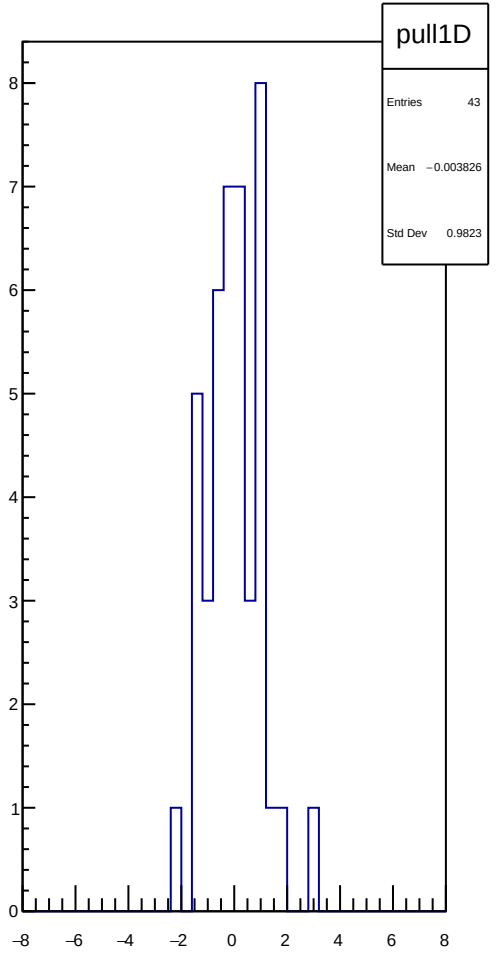
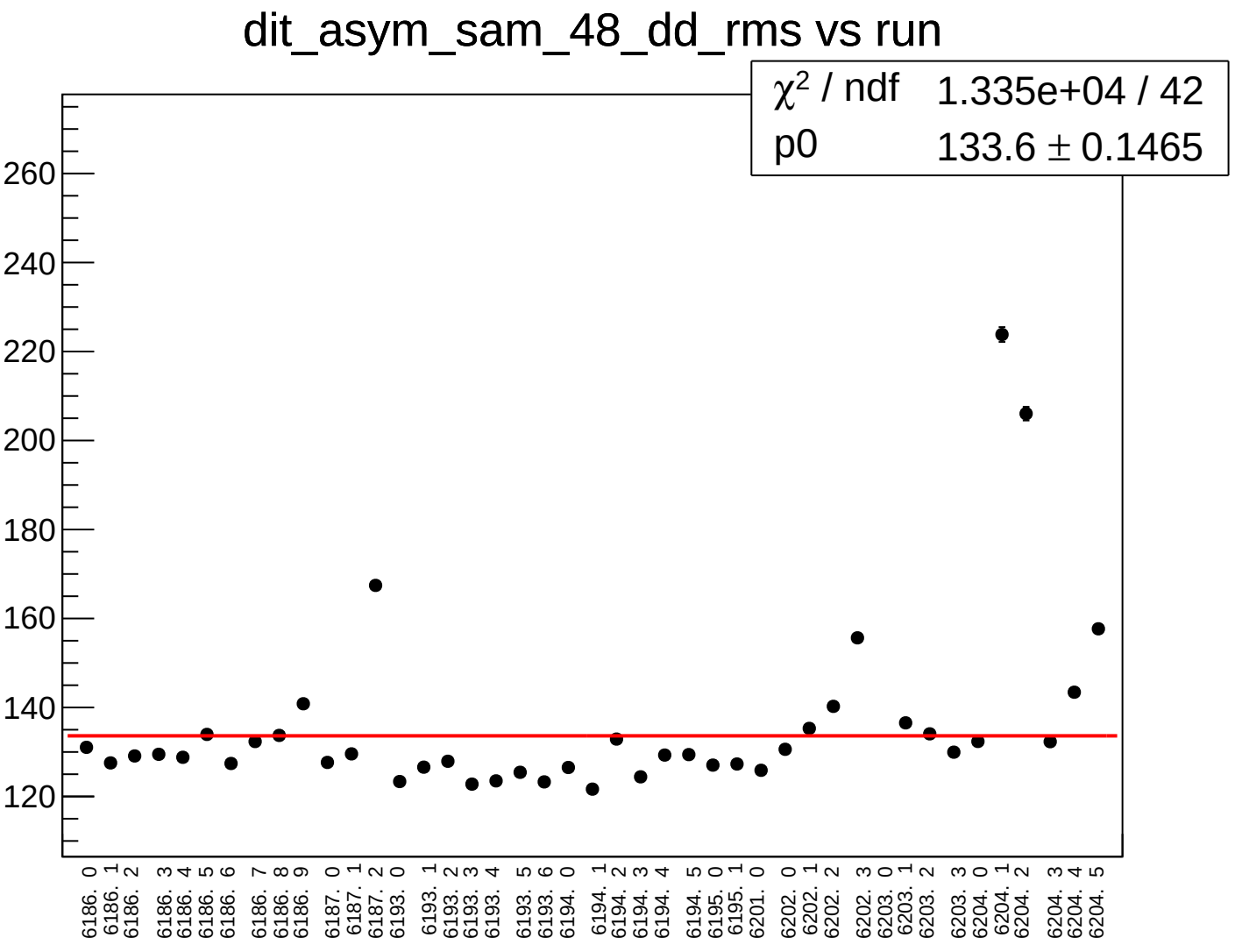

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 6700 / 42
p0 126.1 ± 0.1377
190
180
170
160
150
140
130
120
110
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

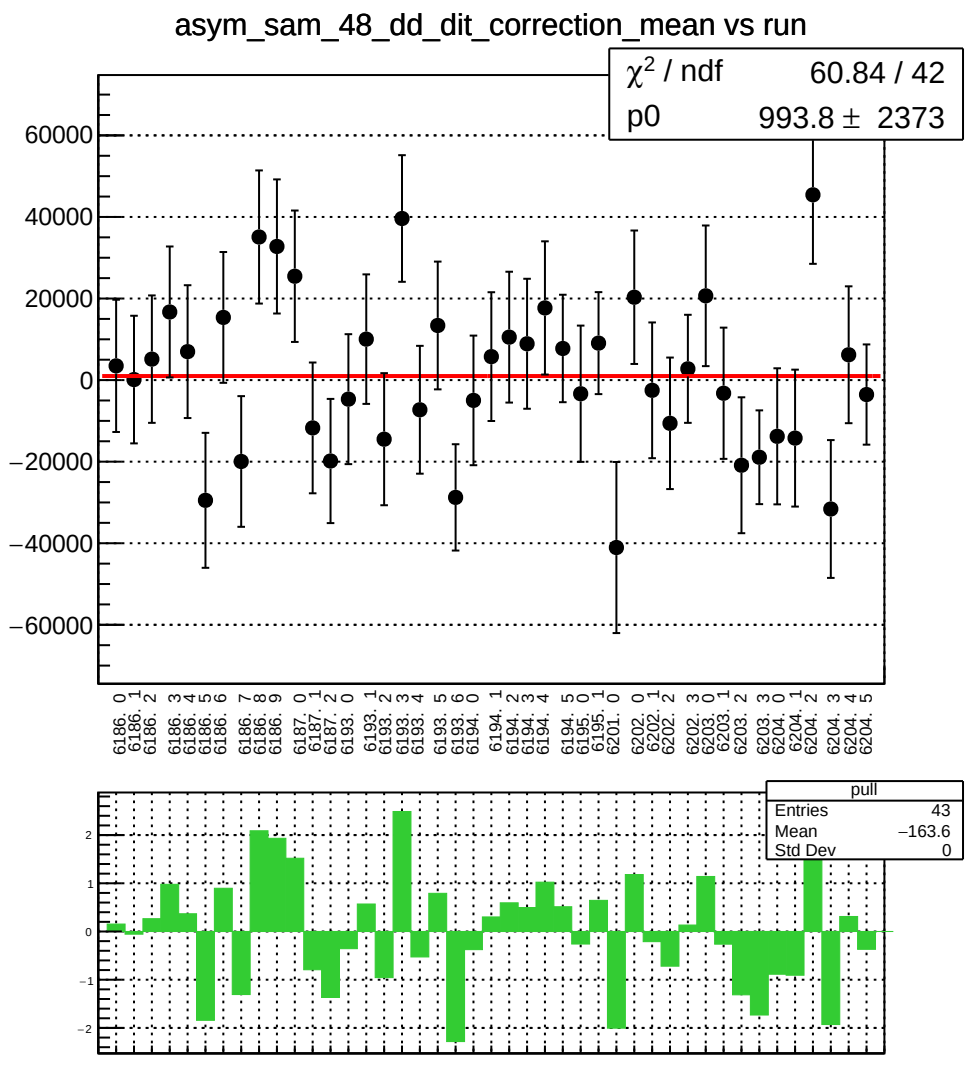

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 60.43 / 42
p0 1050 ± 2349
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −117.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01725
Std Dev 1.185
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

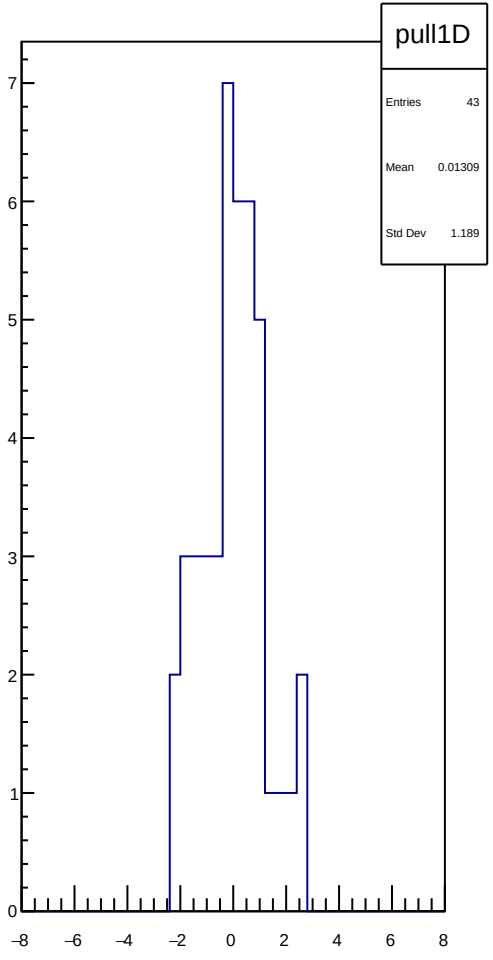

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1247 / 42
p0 1526 ± 1.661
1800
1750
1700
1650
1600
1550
1500
1450
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

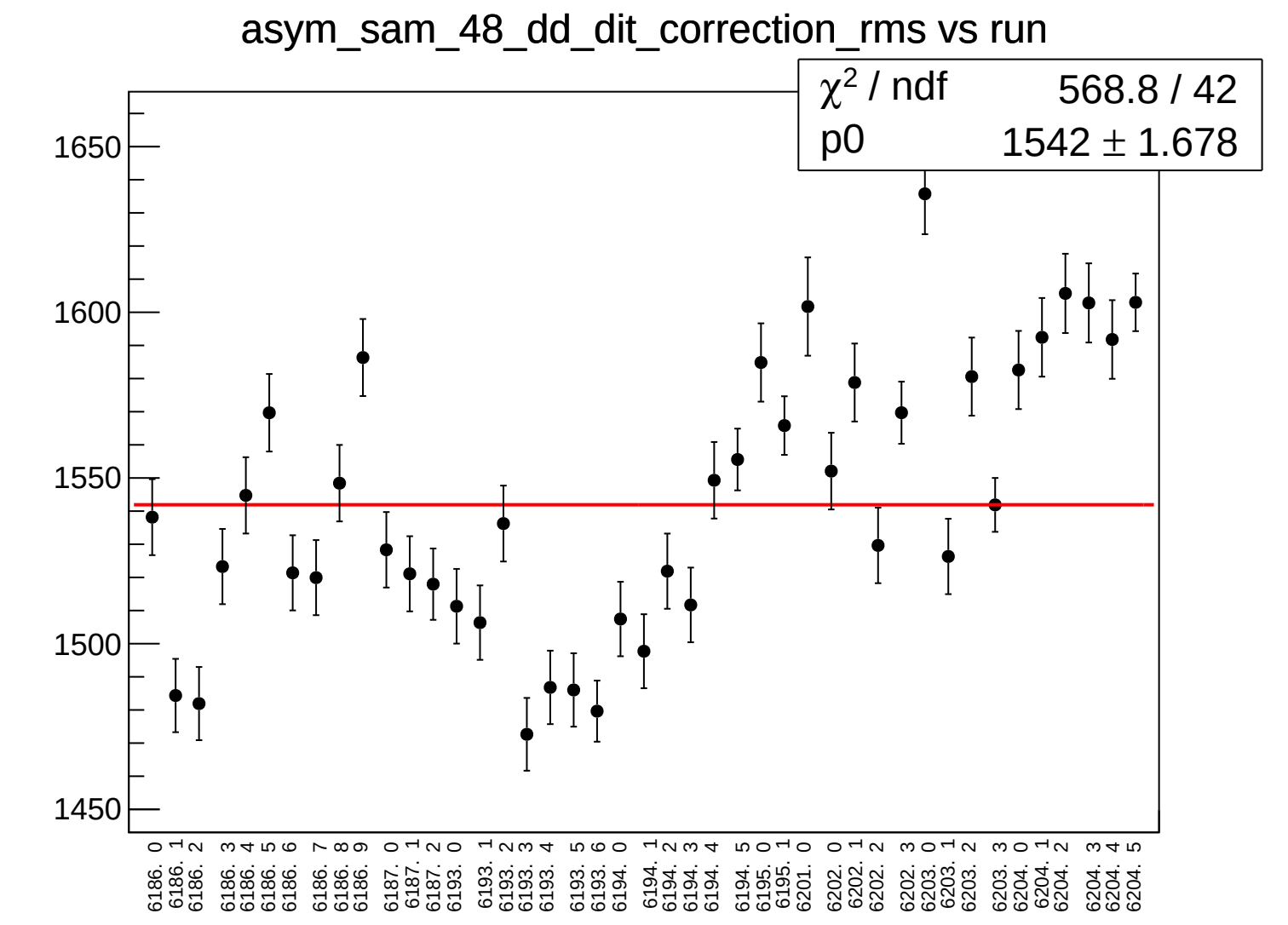

dit_asym_sam_48_dd_mean vs run
χ² / ndf 41.49 / 42
p0 −558.8 ± 207.2
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 529.4
Std Dev 0
3
2
1
0
−1
−2

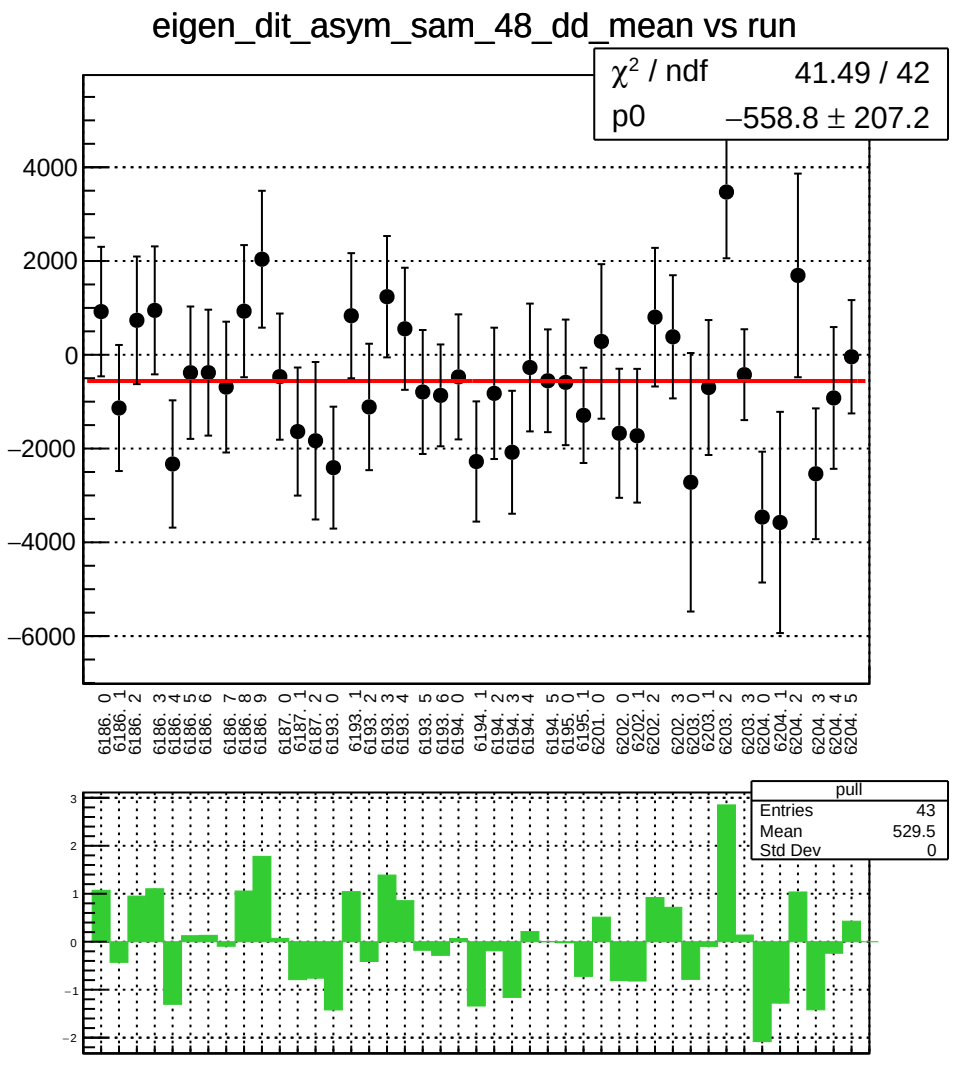

pull1D
Entries 43
Mean −0.003826
Std Dev 0.9823
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

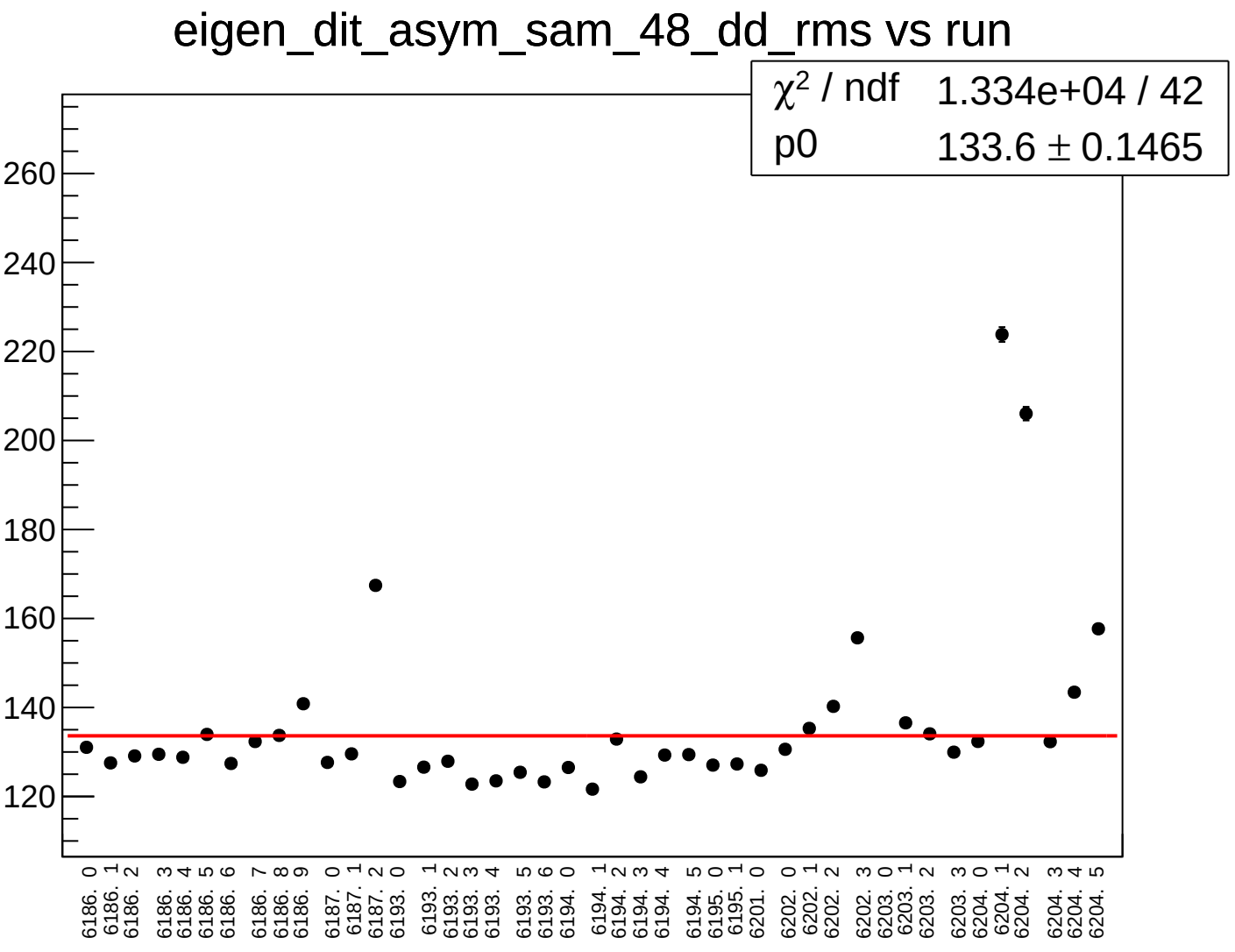

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.335e+04 / 42
p0 133.6 ± 0.1465
260
240
220
200
180
160
140
120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

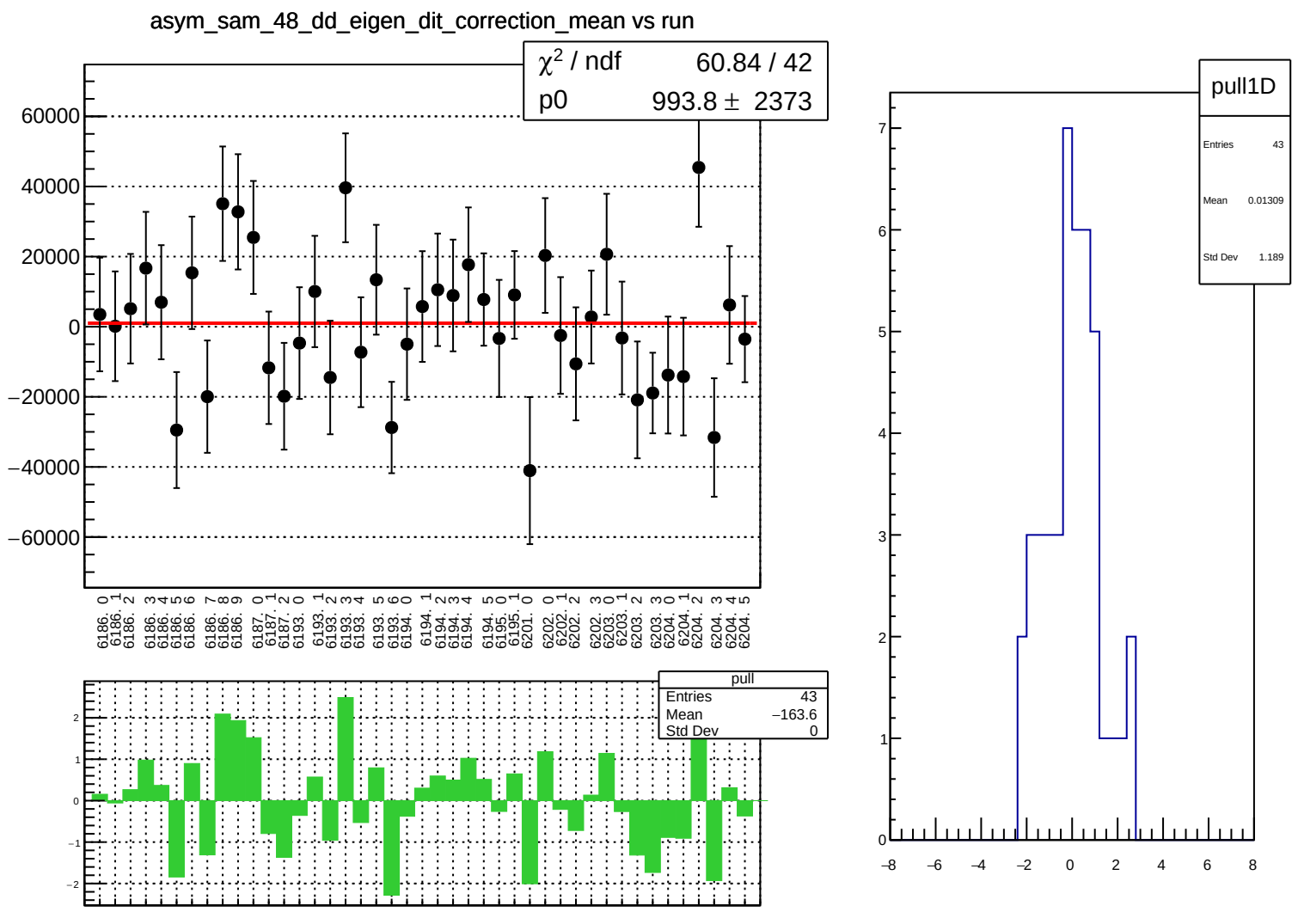

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 60.84 / 42
p0 993.8 ± 2373
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −163.6
Std Dev 0
2
1
0
−1
−2

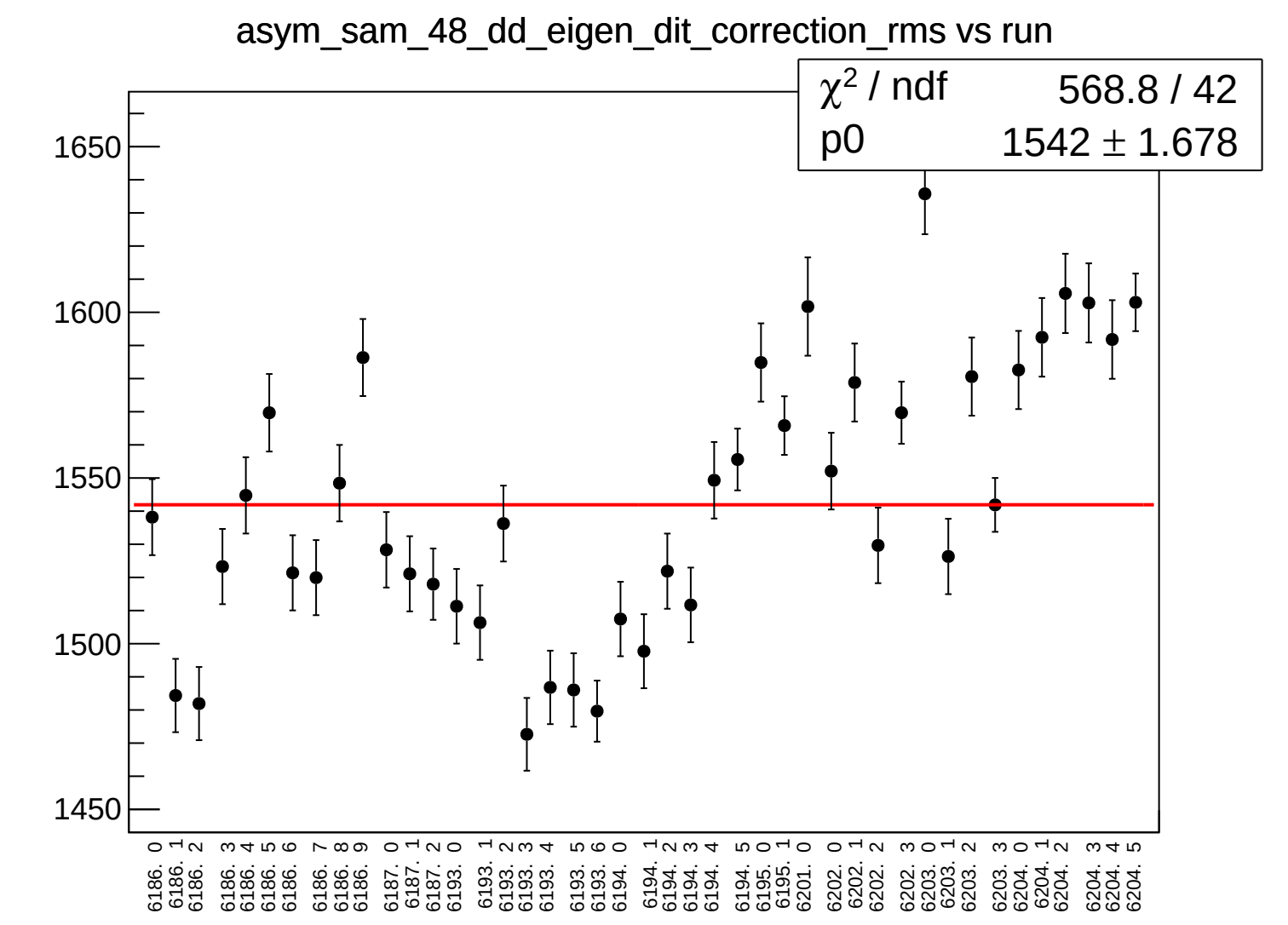

pull1D
Entries 43
Mean 0.01309
Std Dev 1.189
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

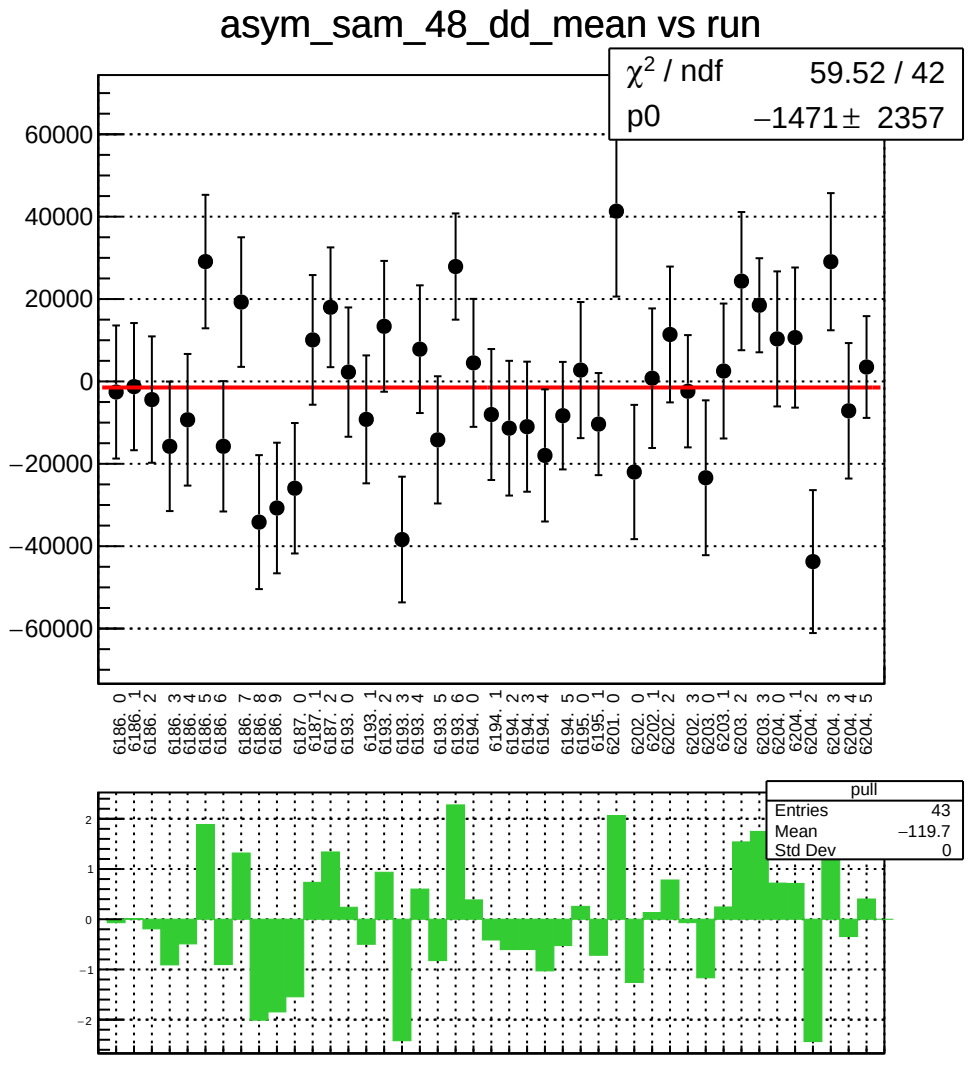

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 568.8 / 42
p0 1542 ± 1.678
1650
1600
1550
1500
1450
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

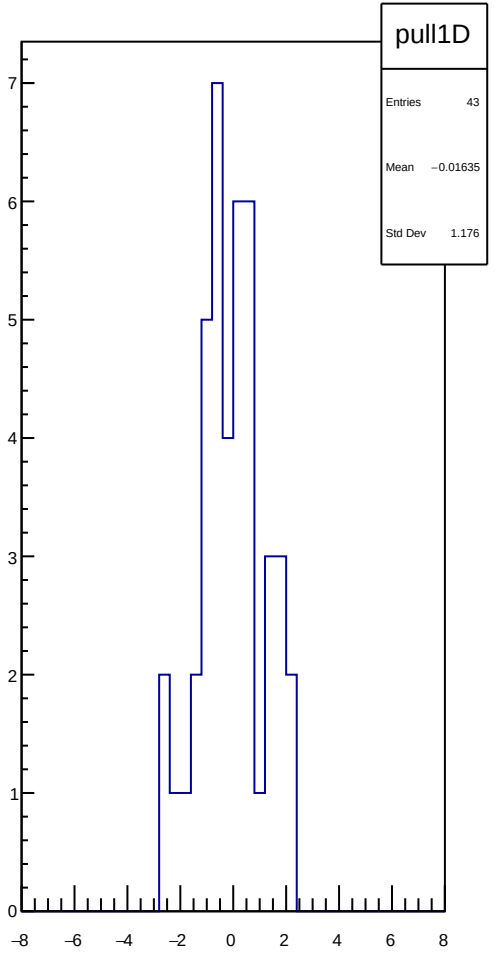

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 41.49 / 42
p0 −558.8 ± 207.2
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 529.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.003825
Std Dev 0.9823
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

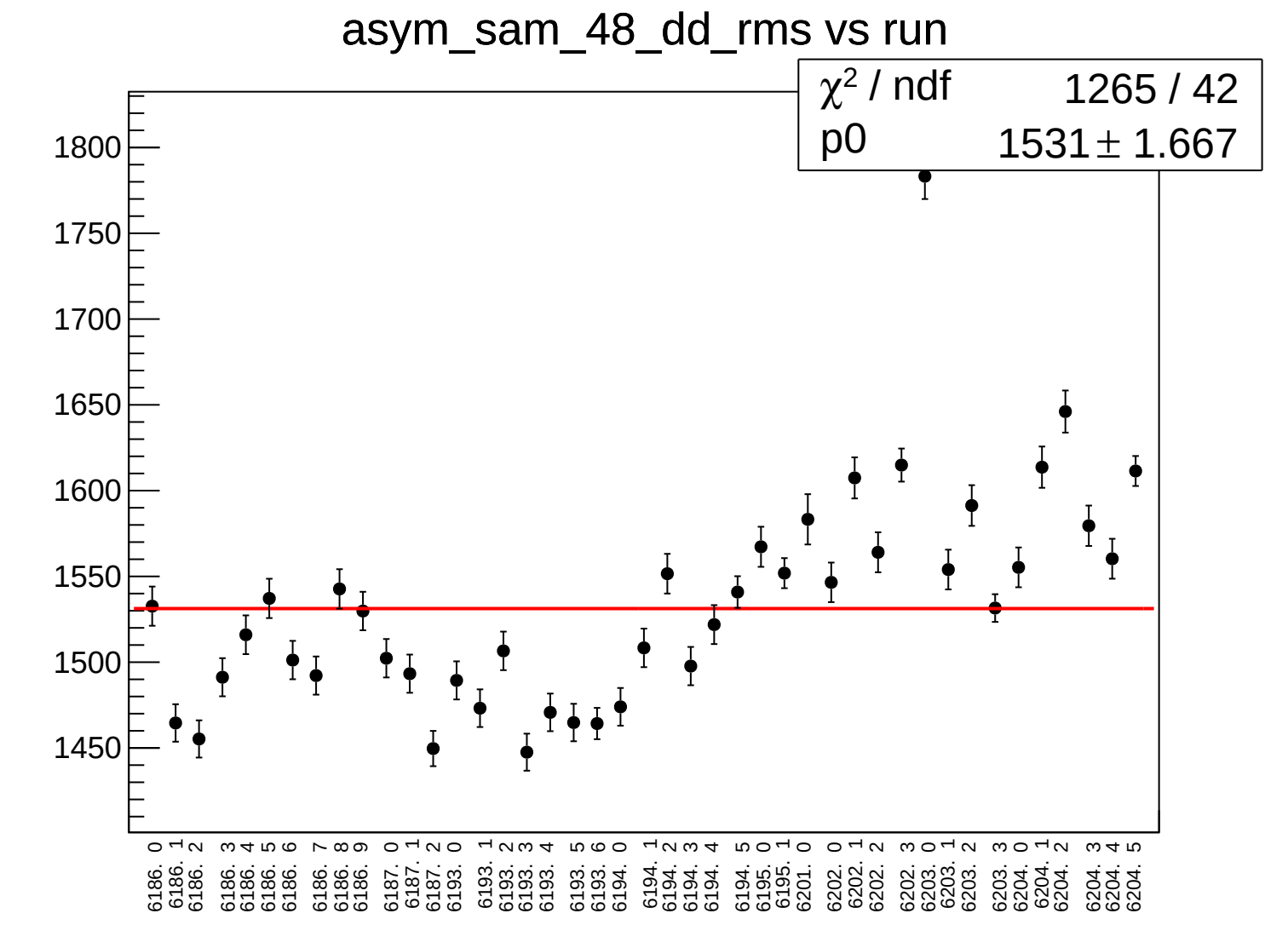

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.334e+04 / 42
p0 133.6 ± 0.1465
260
240
220
200
180
160
140
120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

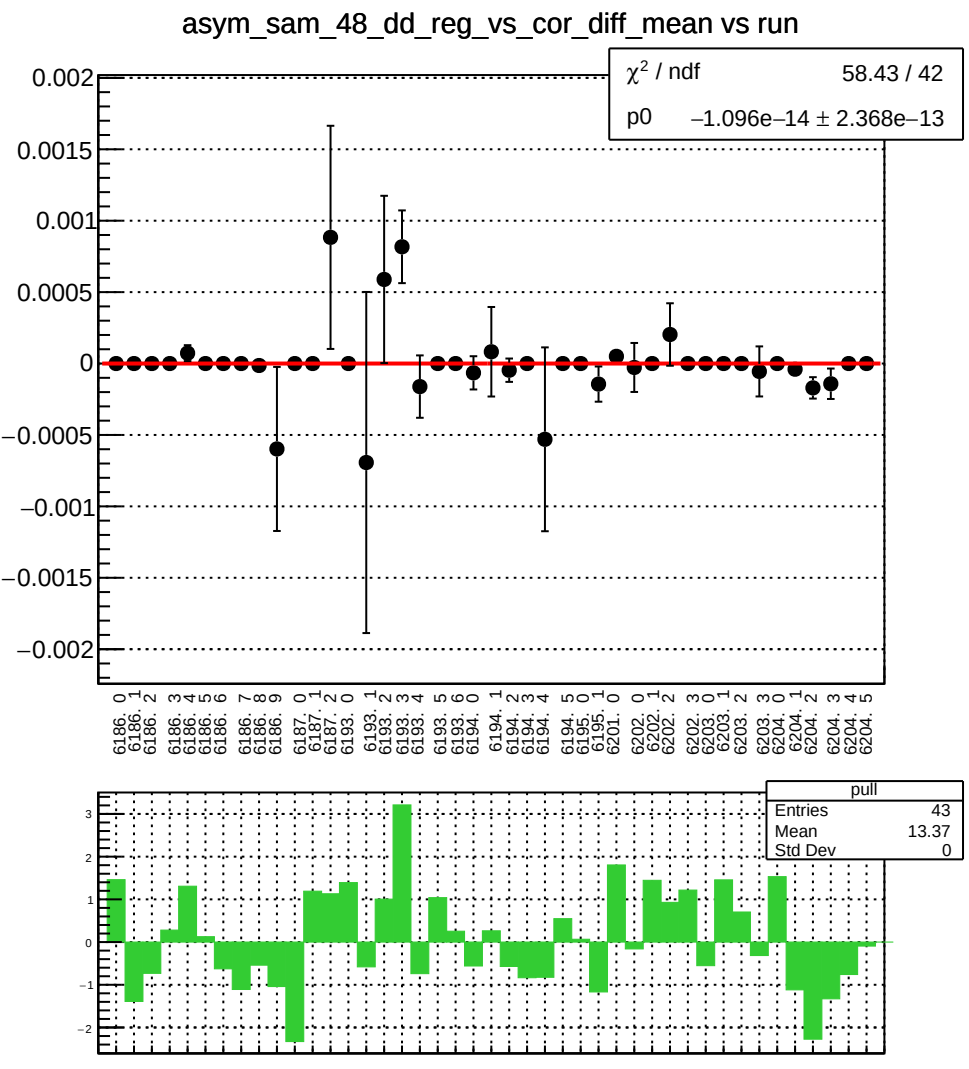

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 60.84 / 42
p0 993.8 ± 2373
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −163.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01309
Std Dev 1.189
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

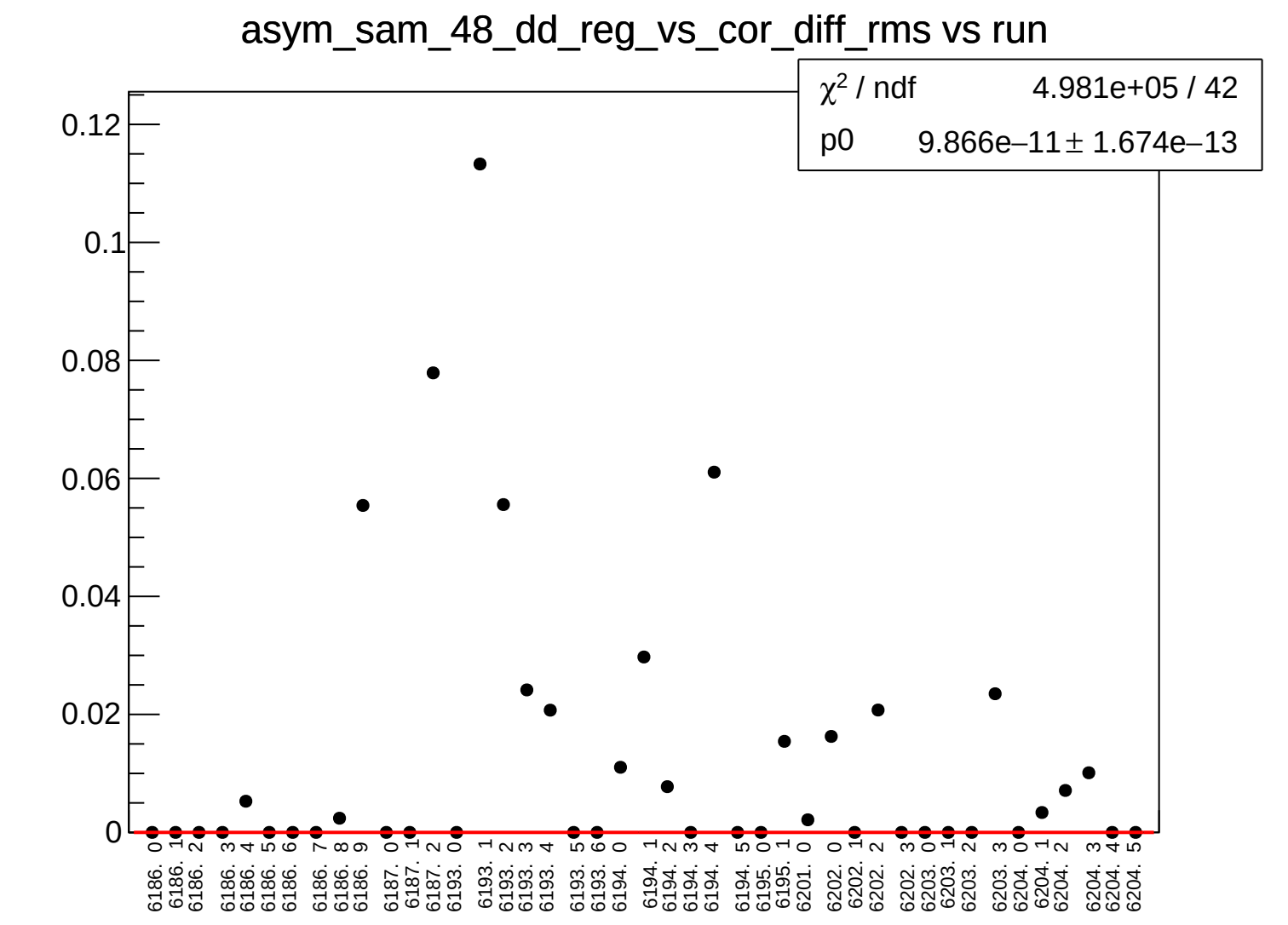

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 568.8 / 42
p0 1542 ± 1.678
1650
1600
1550
1500
1450
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

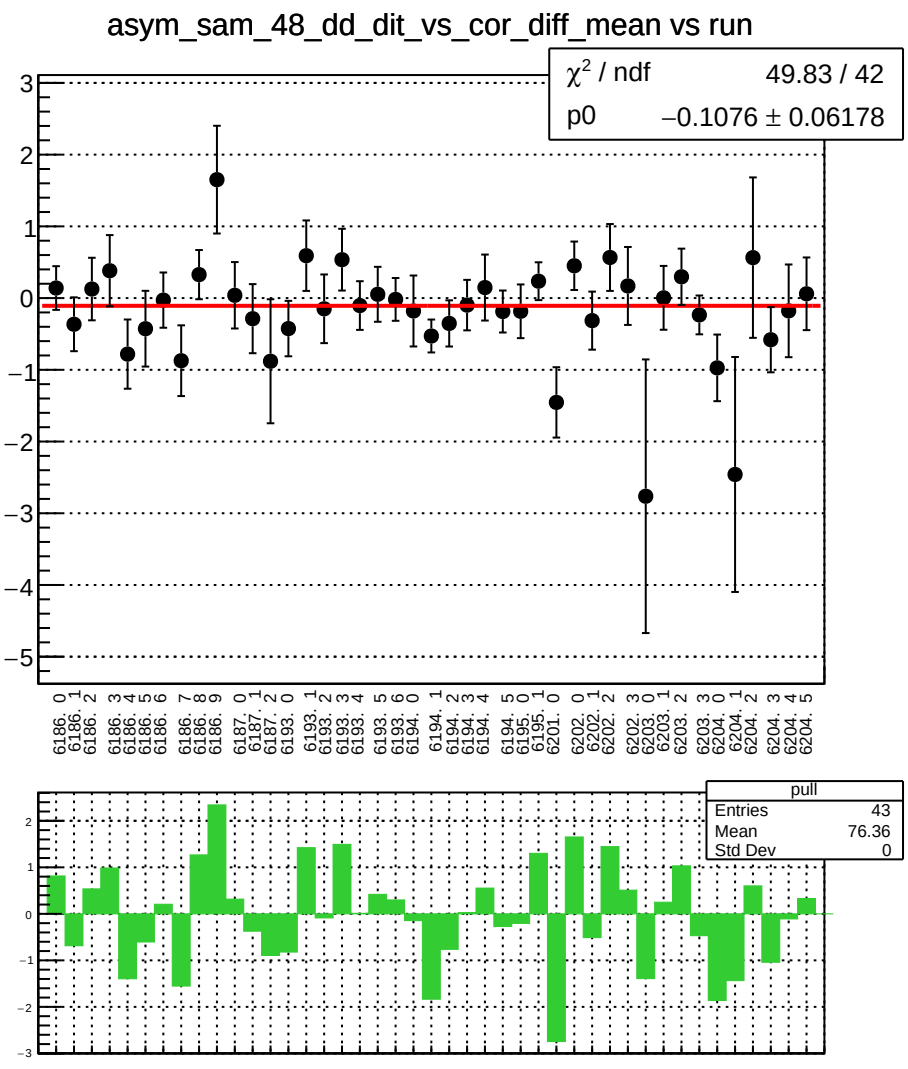

asym_sam_48_dd_mean vs run
χ² / ndf 59.52 / 42
p0 −1471 ± 2357
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −119.7
Std Dev 0
2
1
0
−1
−2

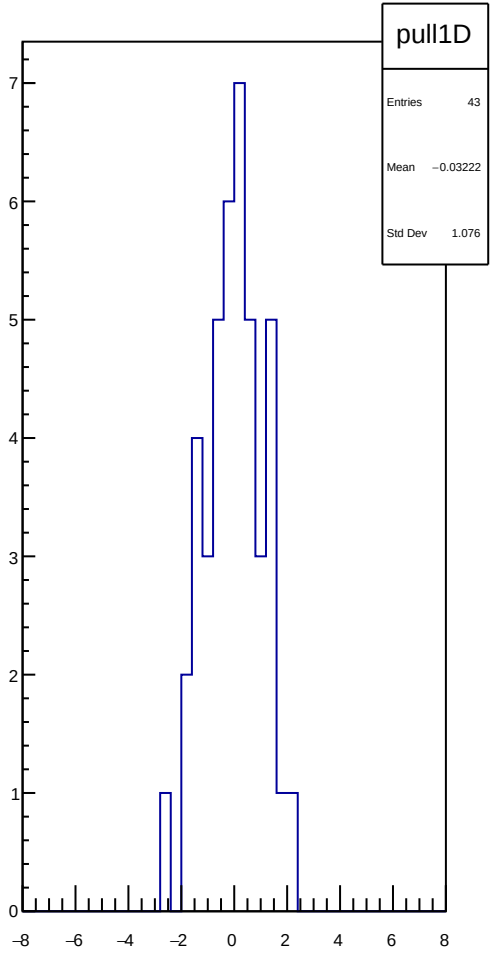

pull1D
Entries 43
Mean −0.01635
Std Dev 1.176
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

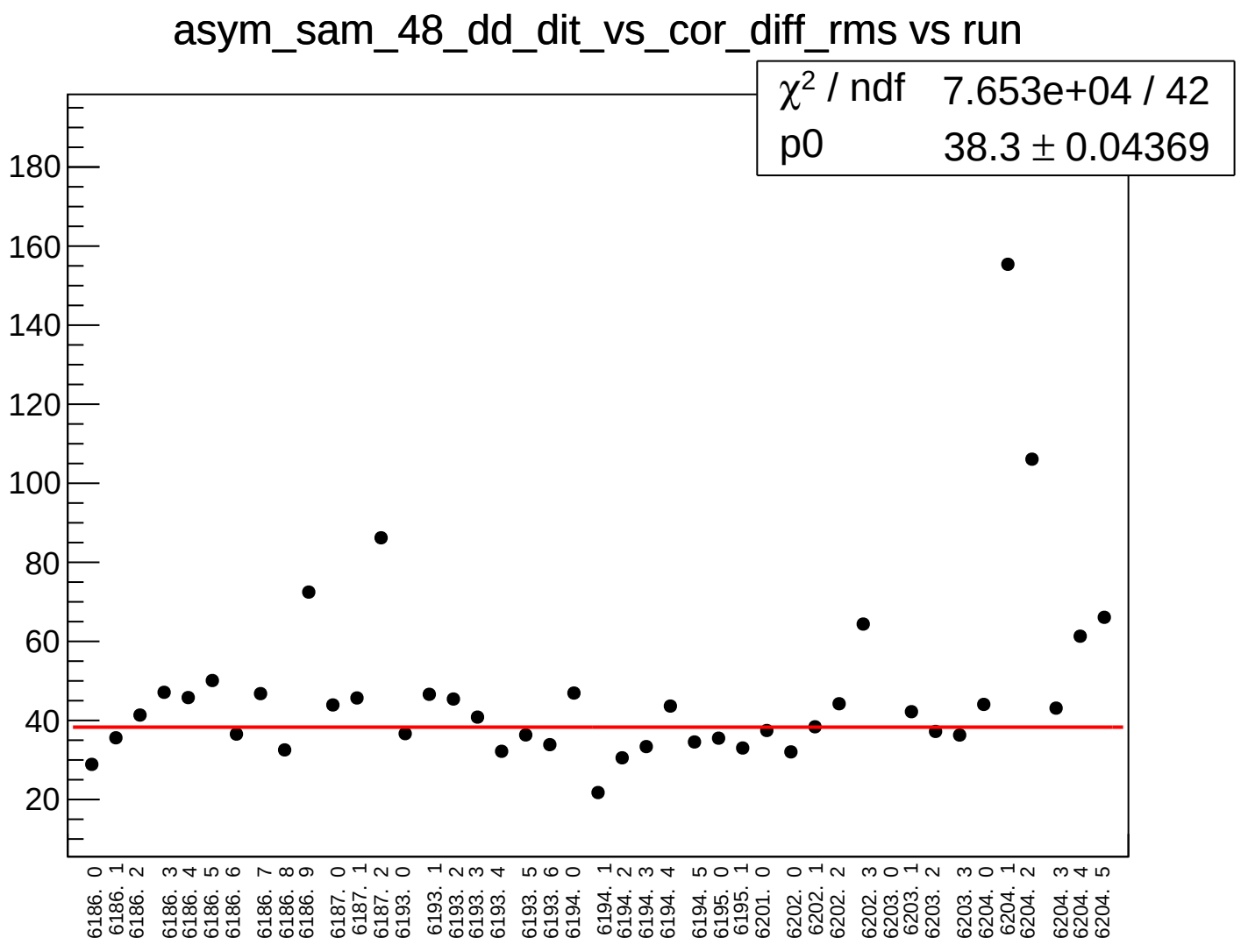

asym_sam_48_dd_rms vs run
χ² / ndf 1265 / 42
p0 1531 ± 1.667
1800
1750
1700
1650
1600
1550
1500
1450
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

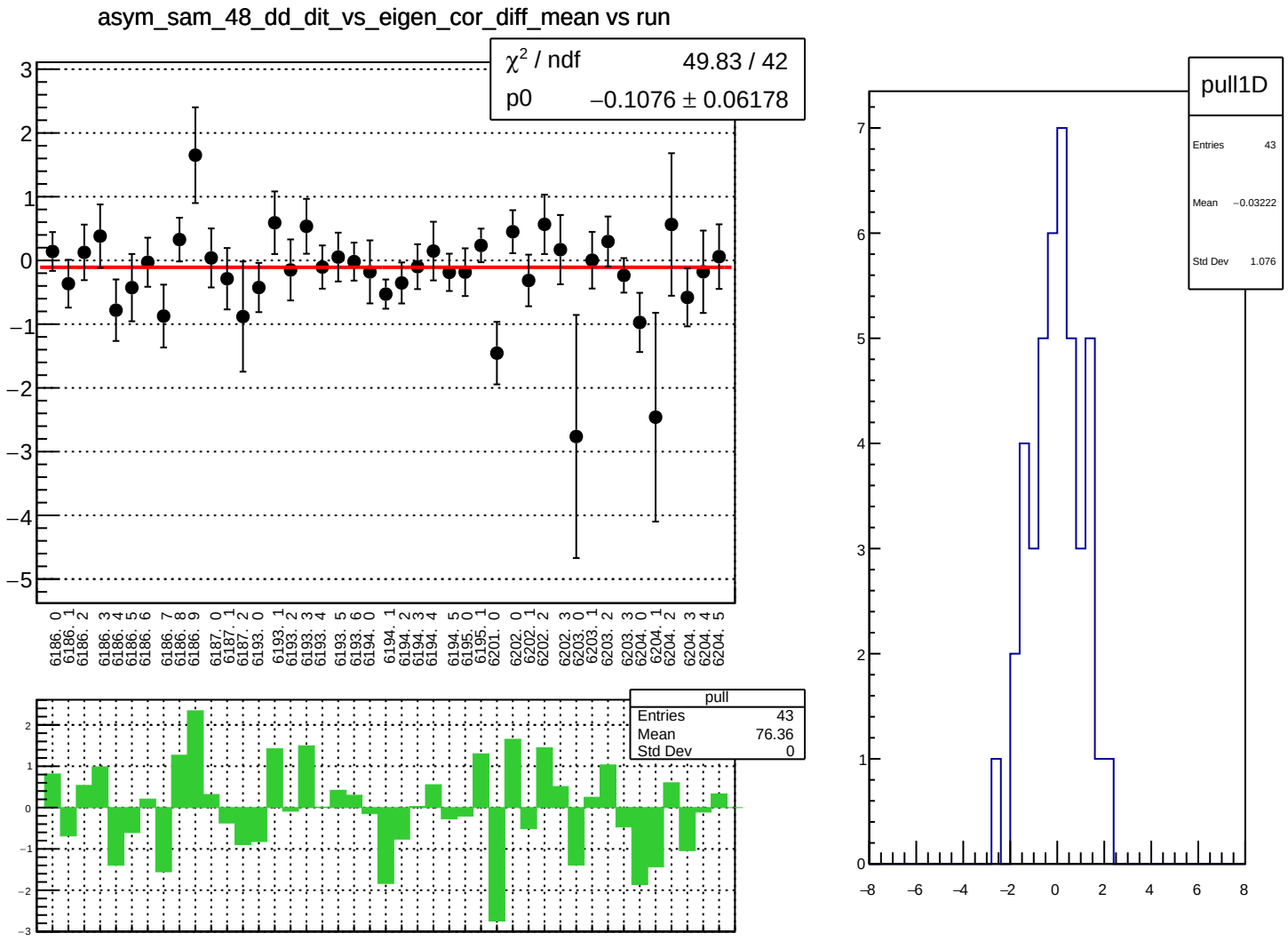

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 58.43 / 42
p0 −1.096e−14 ± 2.368e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 13.37
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.06321
Std Dev 1.164
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

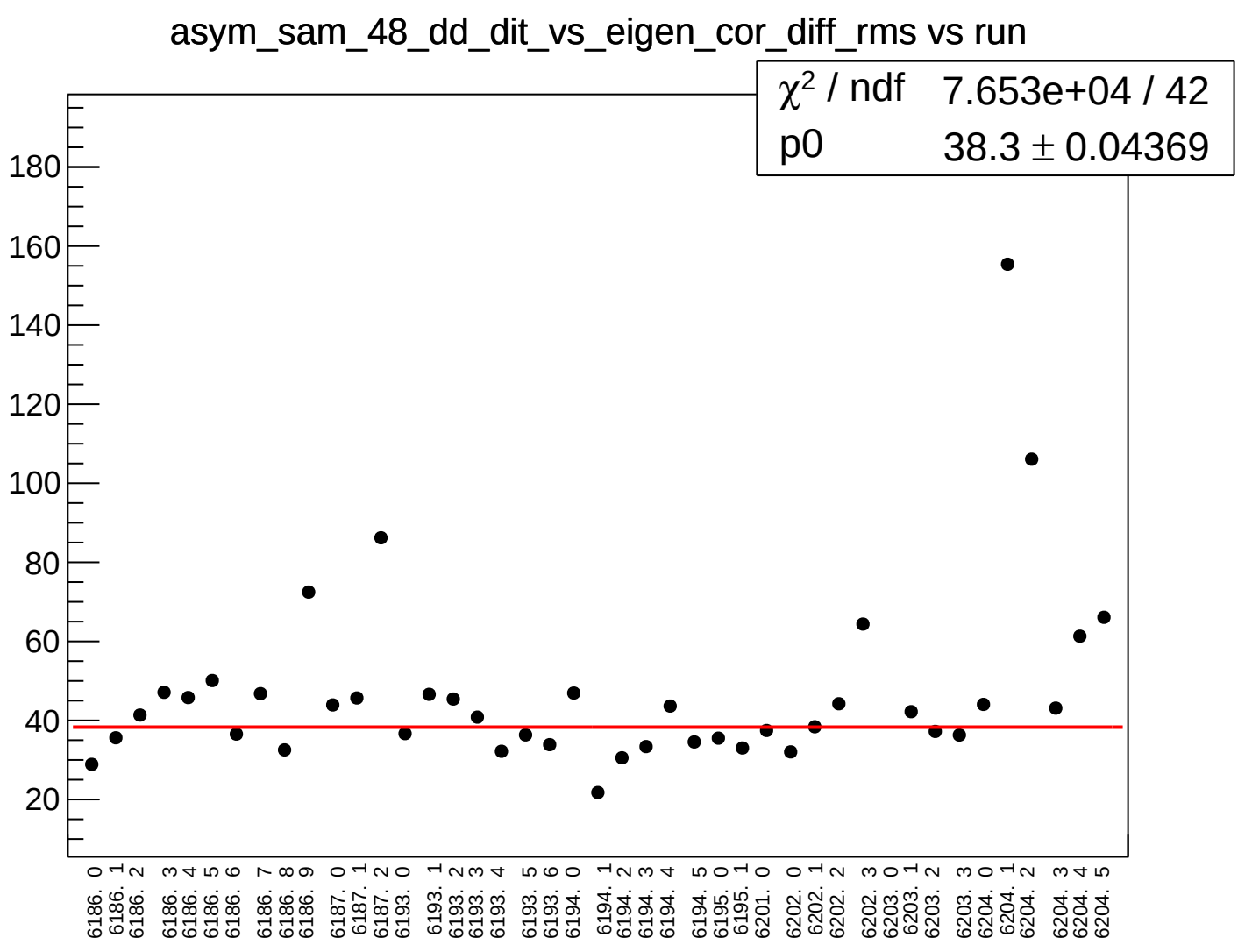

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.981e+05 / 42
p0 9.866e−11 ± 1.674e−13
0.12
0.1
0.08
0.06
0.04
0.02
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

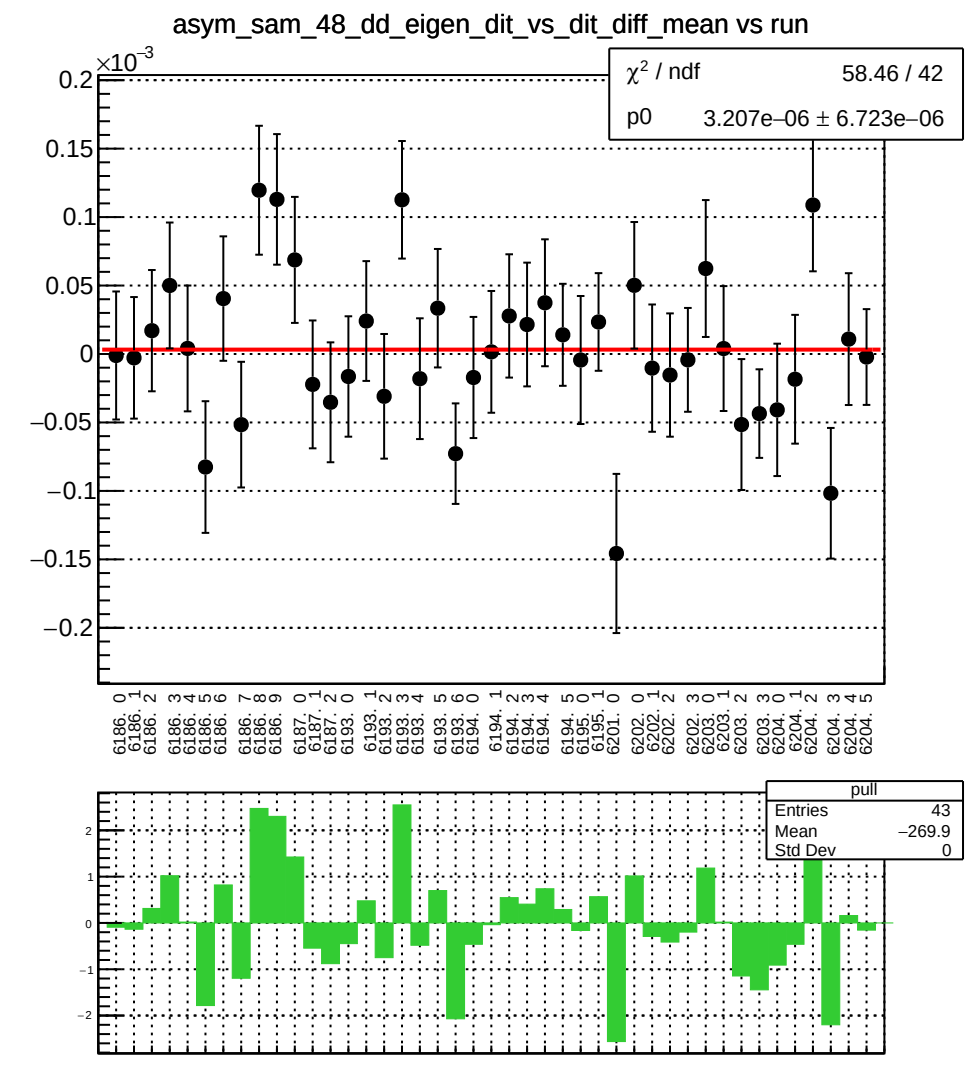

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 49.83 / 42
p0 −0.1076 ± 0.06178
pull
Entries 43
Mean 76.36
Std Dev 0

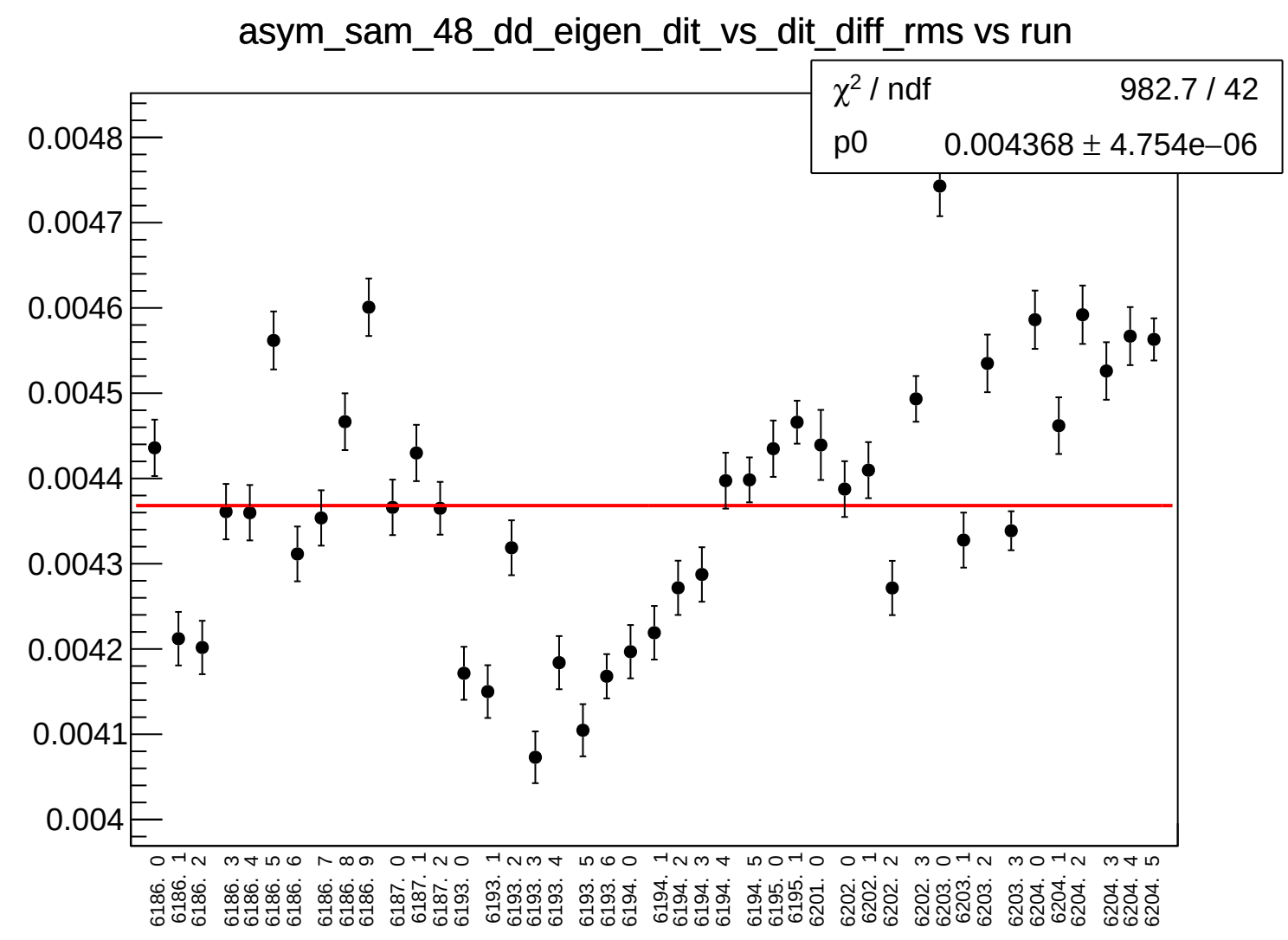

pull1D
Entries 43
Mean −0.03222
Std Dev 1.076

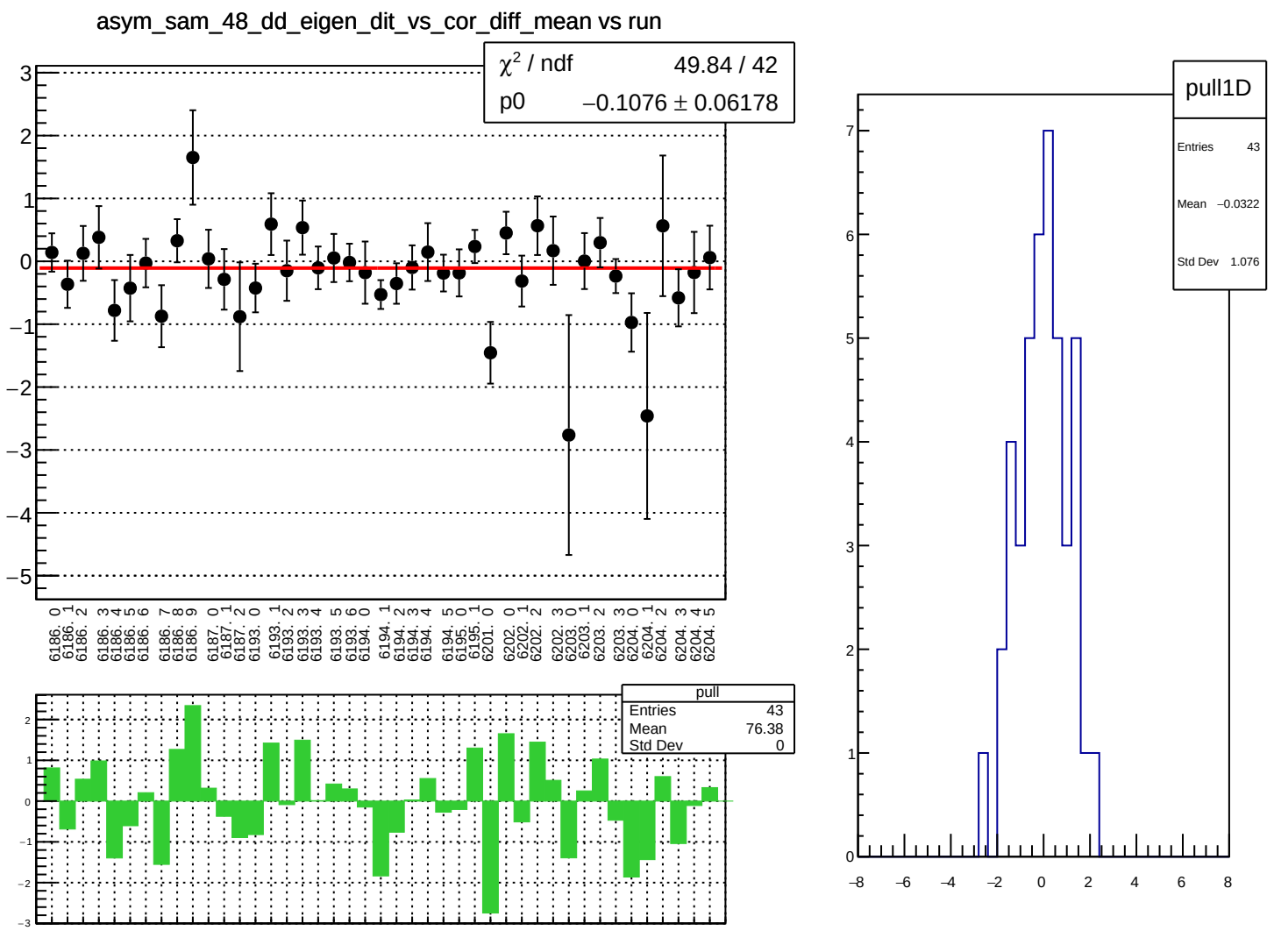

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.653e+04 / 42
p0 38.3 ± 0.04369
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

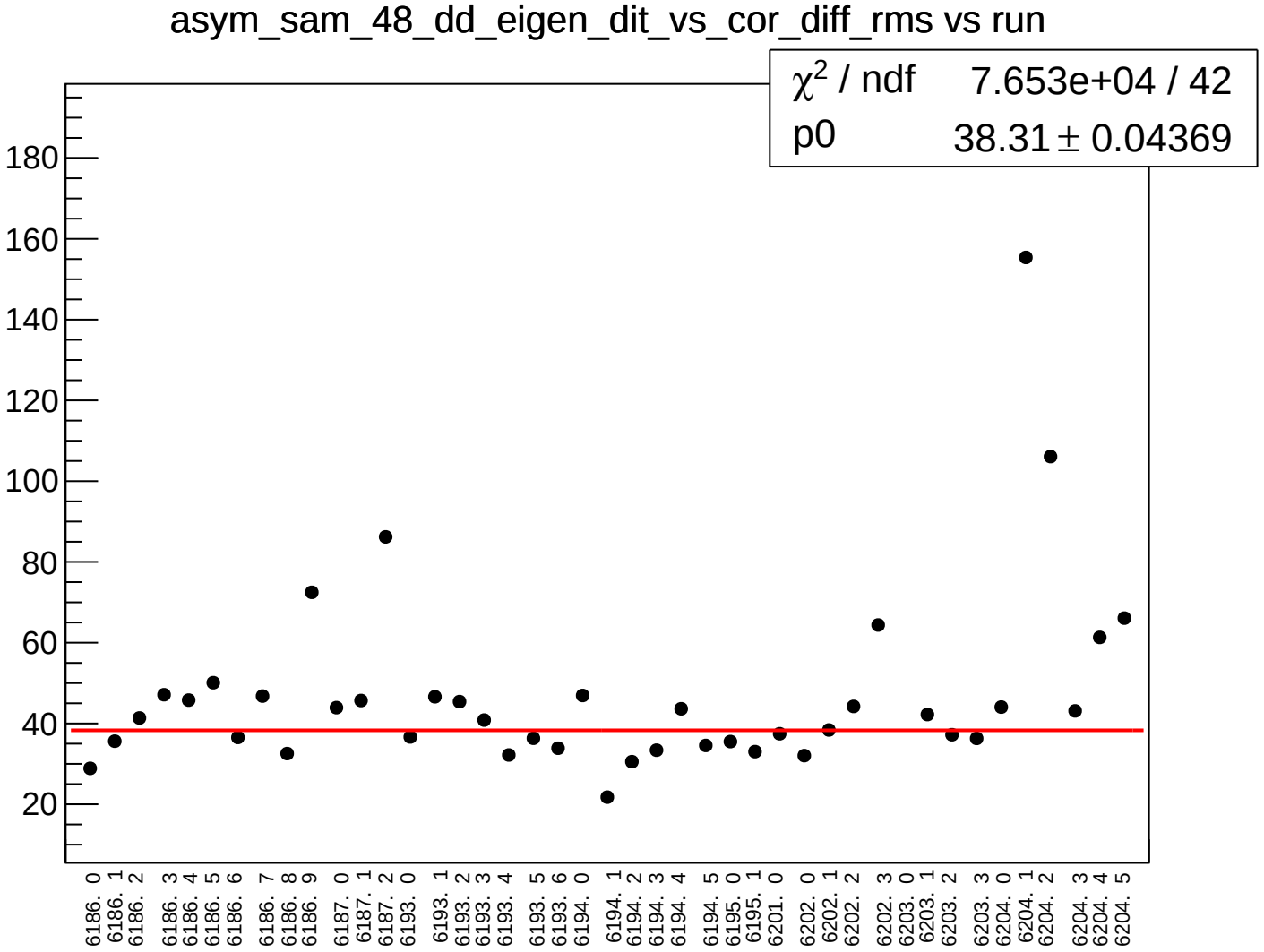

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.83 / 42
p0 −0.1076 ± 0.06178
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 76.36
Std Dev 0
pull1D
Entries 43
Mean −0.03222
Std Dev 1.076

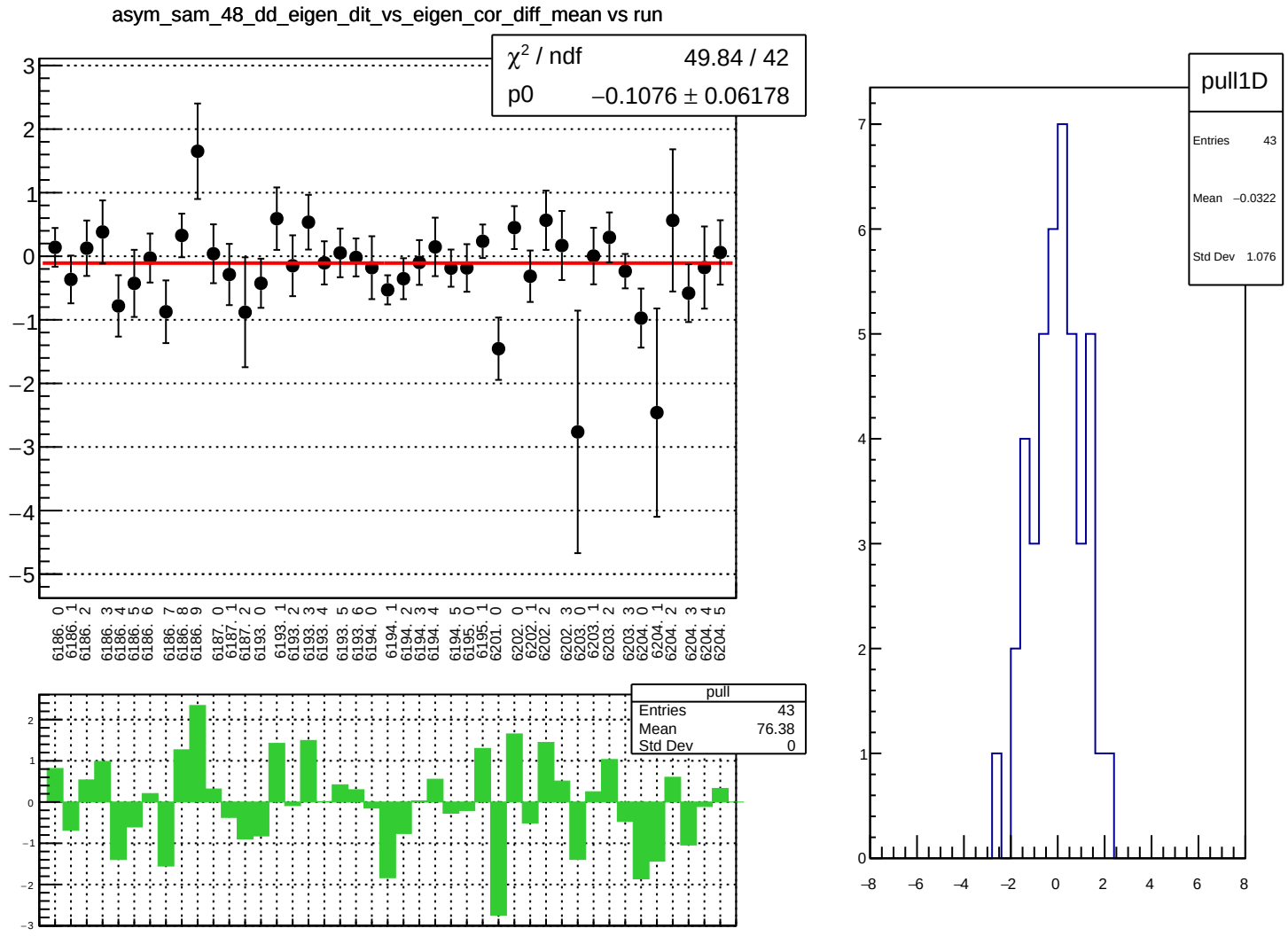

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.653e+04 / 42
p0 38.3 ± 0.04369
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

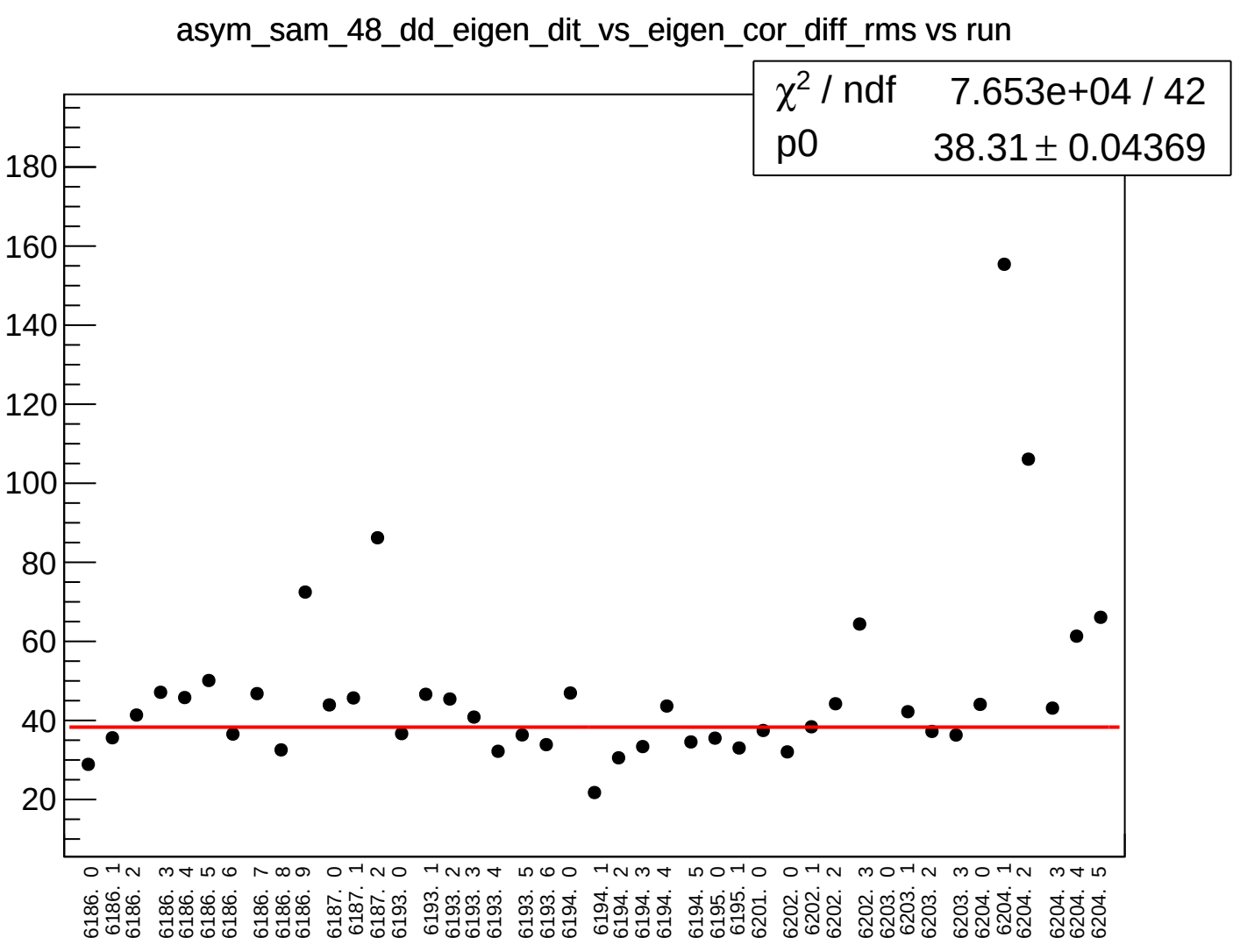

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 58.46 / 42
p0 3.207e−06 ± 6.723e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −269.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.008962
Std Dev 1.166
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

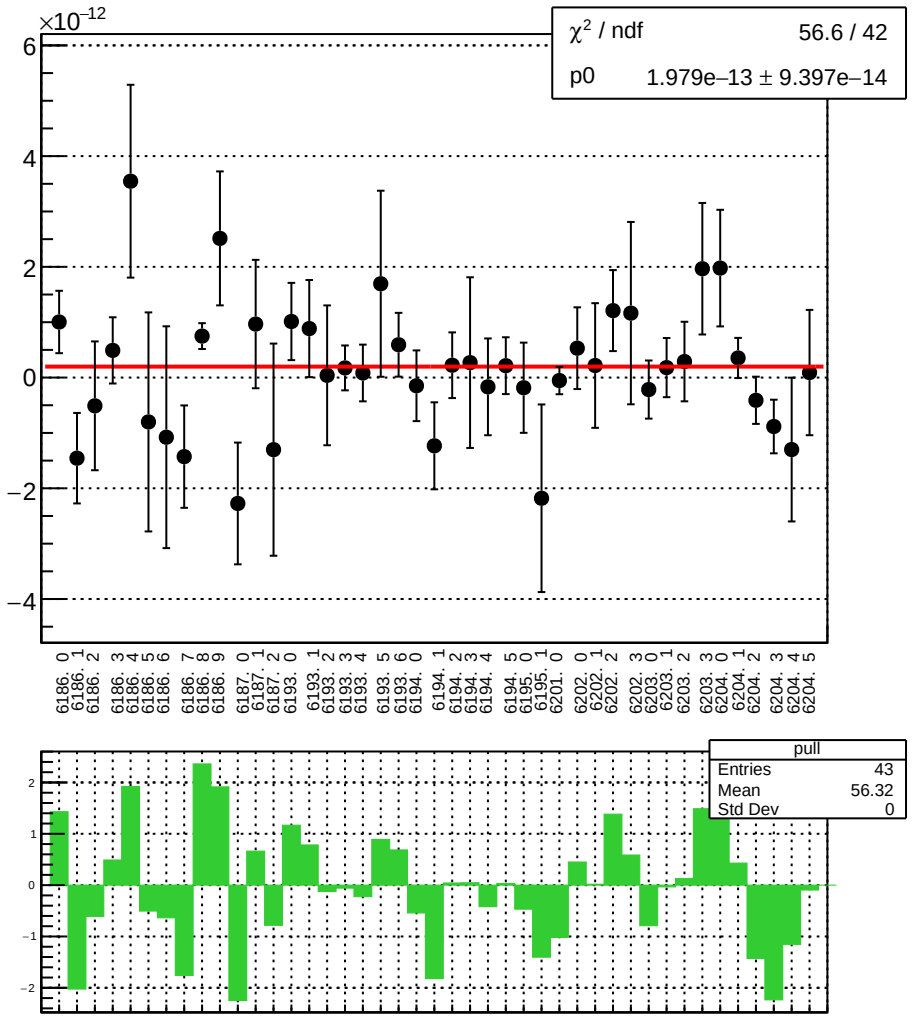

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 982.7 / 42
p0 0.004368 ± 4.754e−06
0.0048
0.0047
0.0046
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

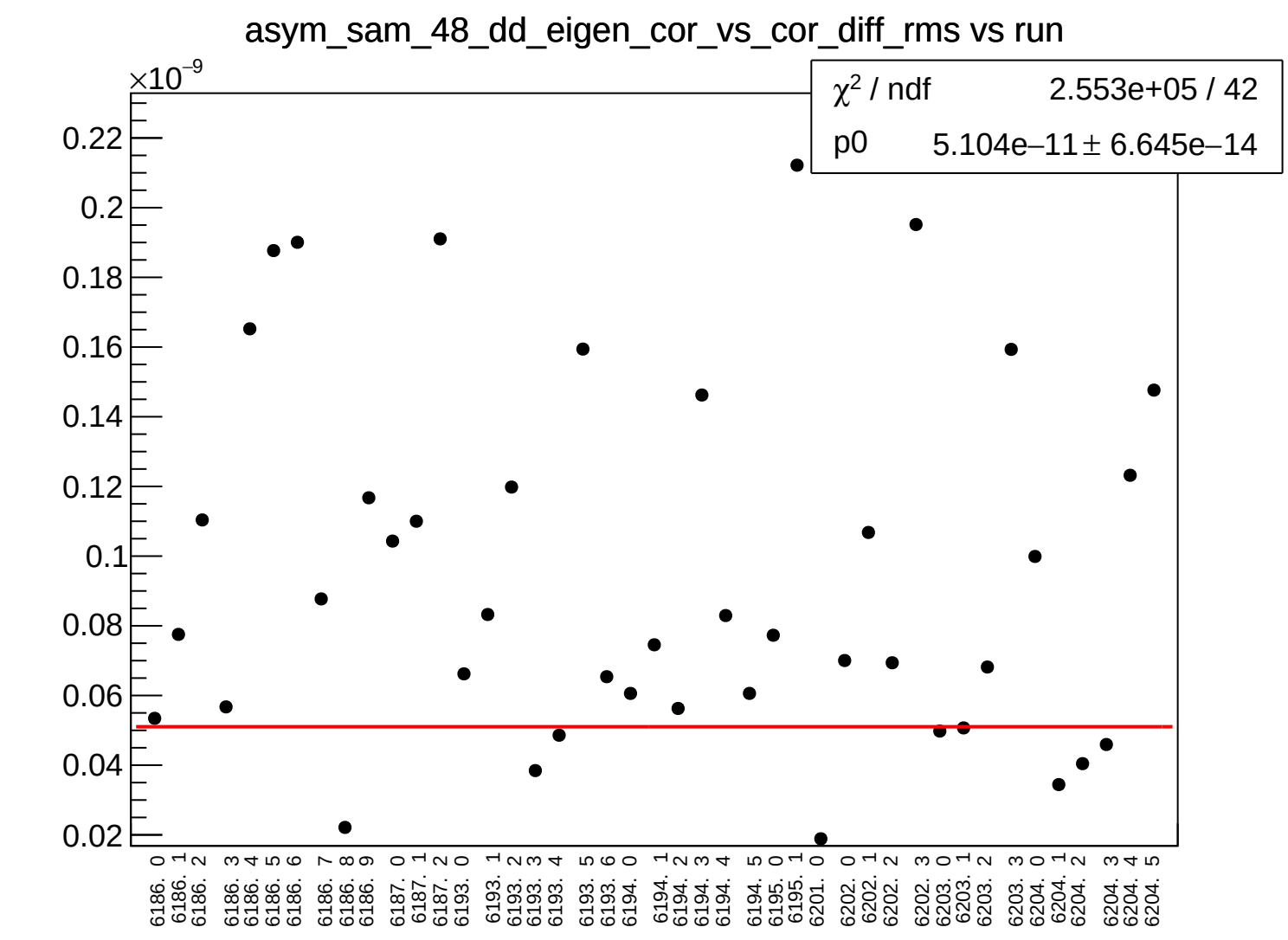

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.84 / 42
p0 −0.1076 ± 0.06178
pull
Entries 43
Mean 76.38
Std Dev 0
pull1D
Entries 43
Mean −0.0322
Std Dev 1.076

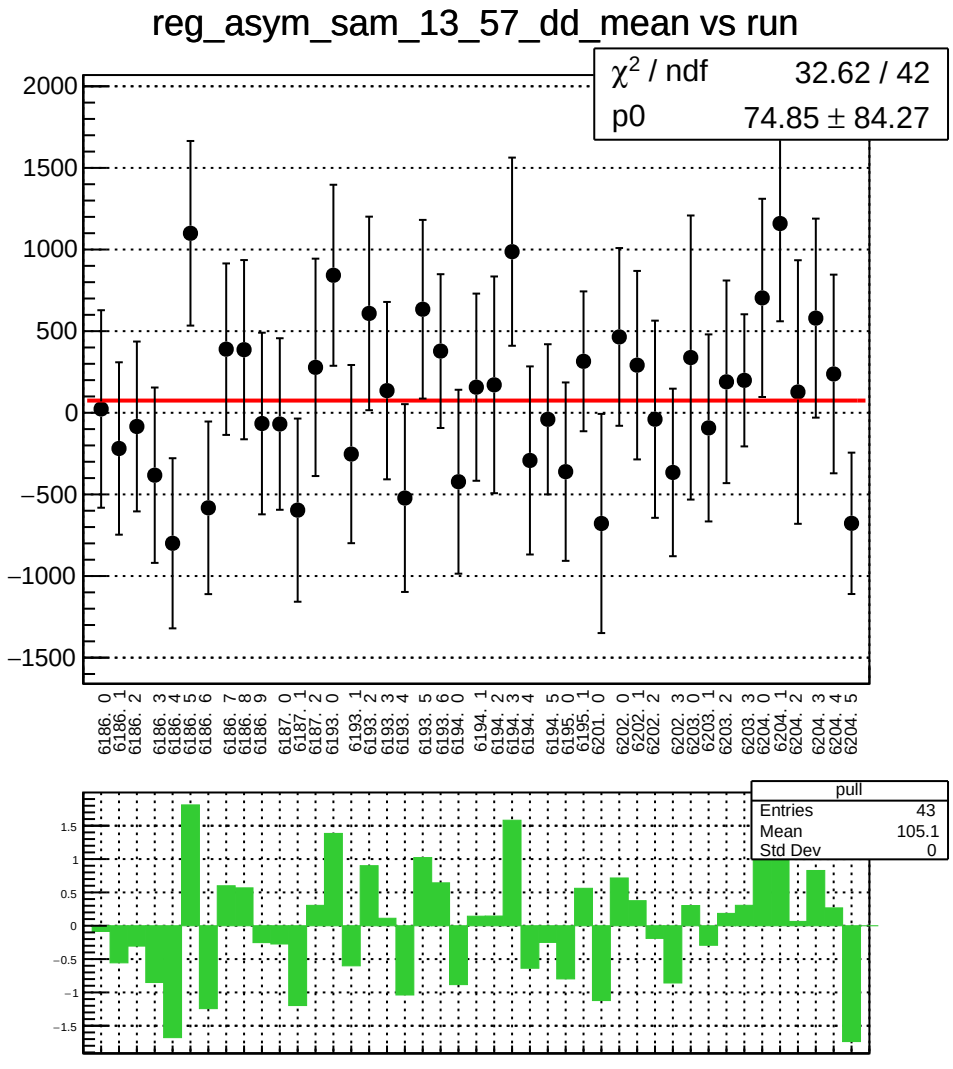

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.653e+04 / 42
p0 38.31 ± 0.04369
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

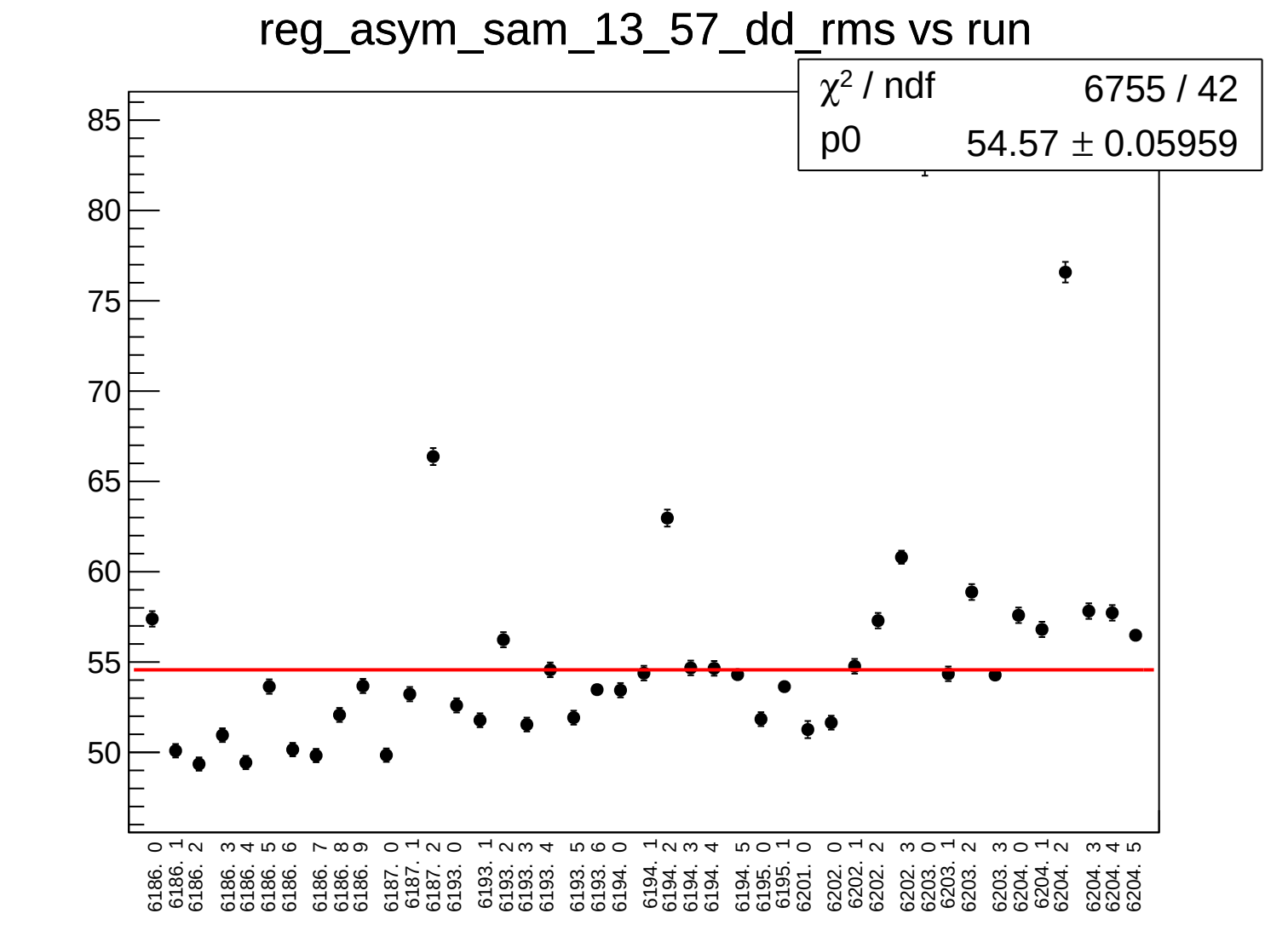

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.84 / 42
p0 −0.1076 ± 0.06178
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 76.38
Std Dev 0
pull1D
Entries 43
Mean −0.0322
Std Dev 1.076


asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.653e+04 / 42
p0 38.31 ± 0.04369
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 56.6 / 42
p0 1.979e−13 ± 9.397e−14
6
4
2
0
−2
−4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 56.32
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0412
Std Dev 1.147
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.553e+05 / 42
p0 5.104e−11 ± 6.645e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 32.62 / 42
p0 74.85 ± 84.27
2000
1500
1000
500
0
−500
−1000
−1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 105.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.0193
Std Dev 0.8708
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 6755 / 42
p0 54.57 ± 0.05959
85
80
75
70
65
60
55
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
6204. 0
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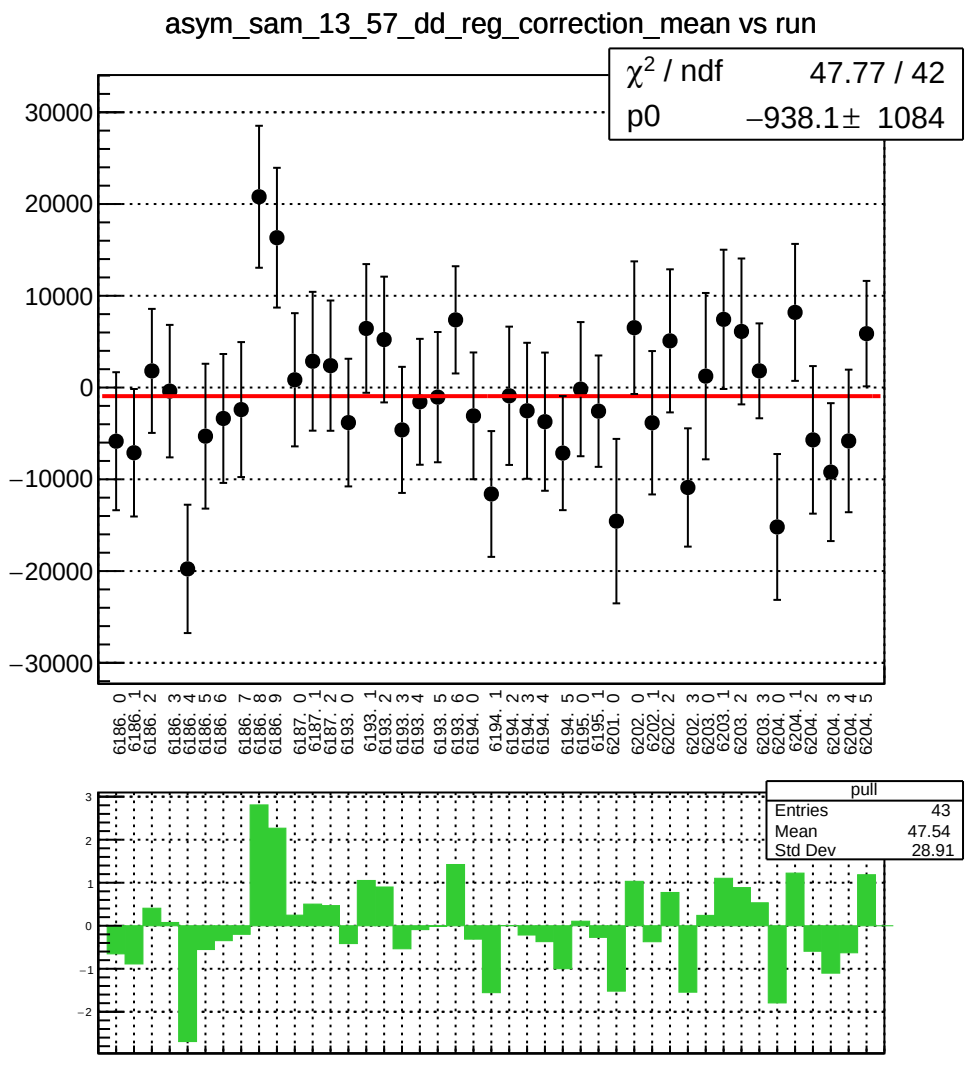
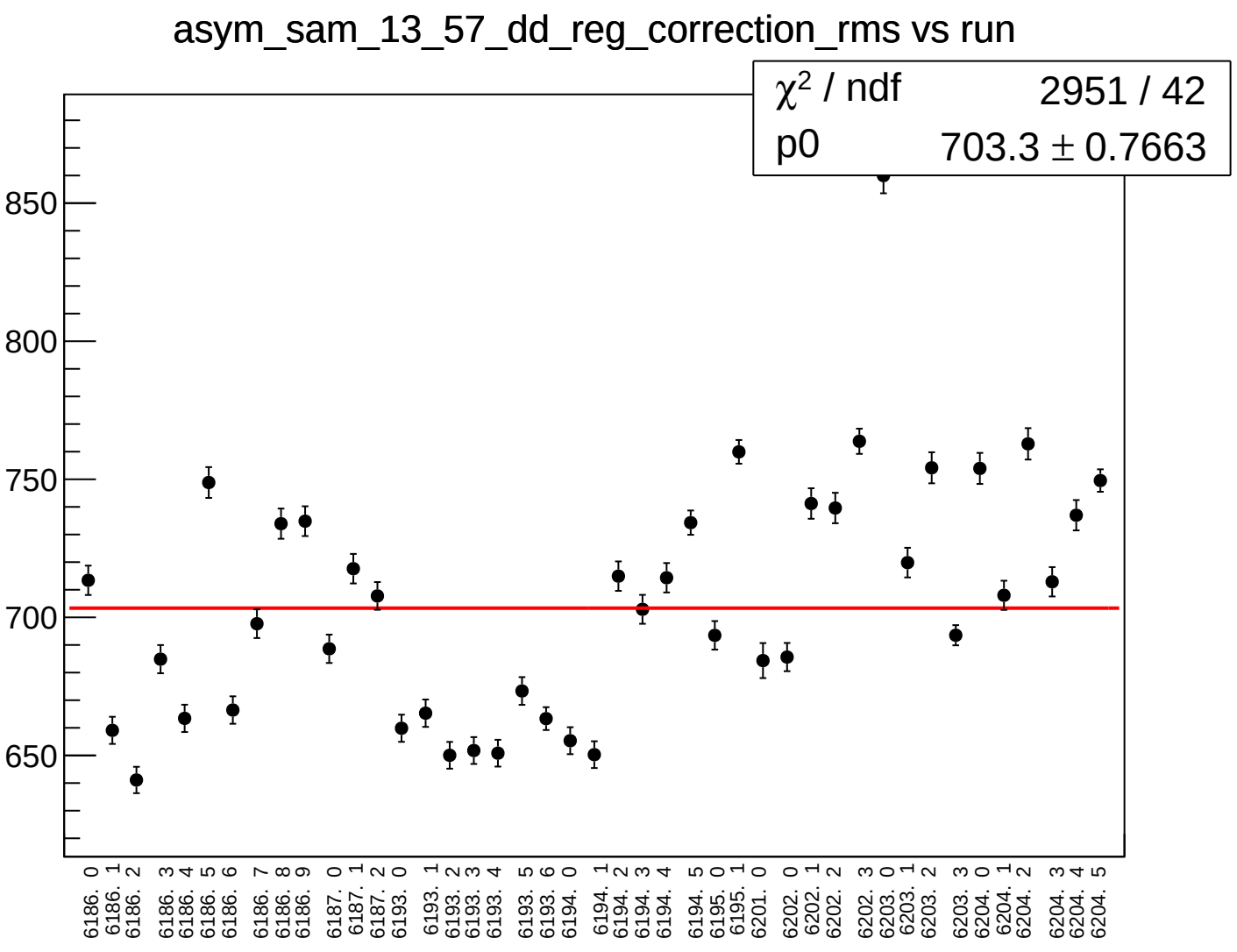
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 47.77 / 42
p0 −938.1± 1084
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 47.54
Std Dev 28.91
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.009597
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 2951 / 42
p0 703.3 ± 0.7663
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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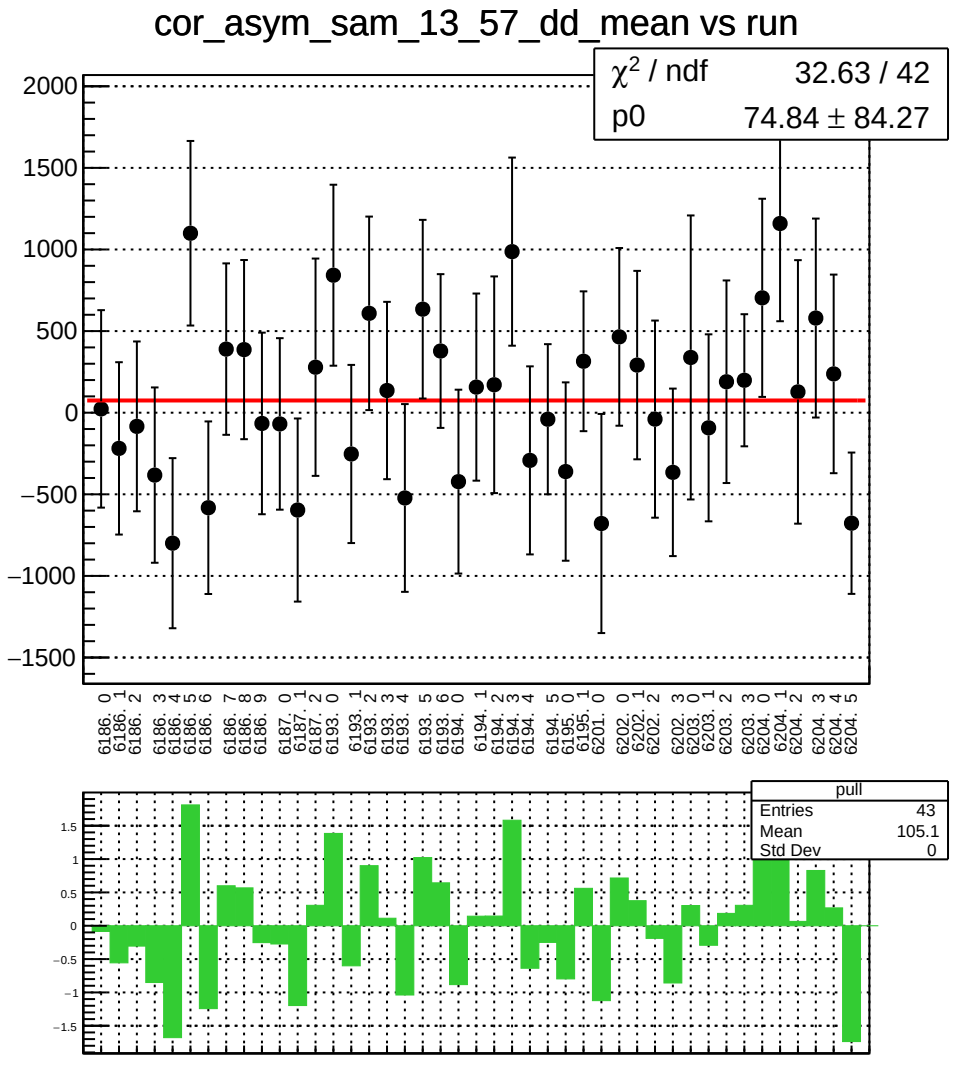
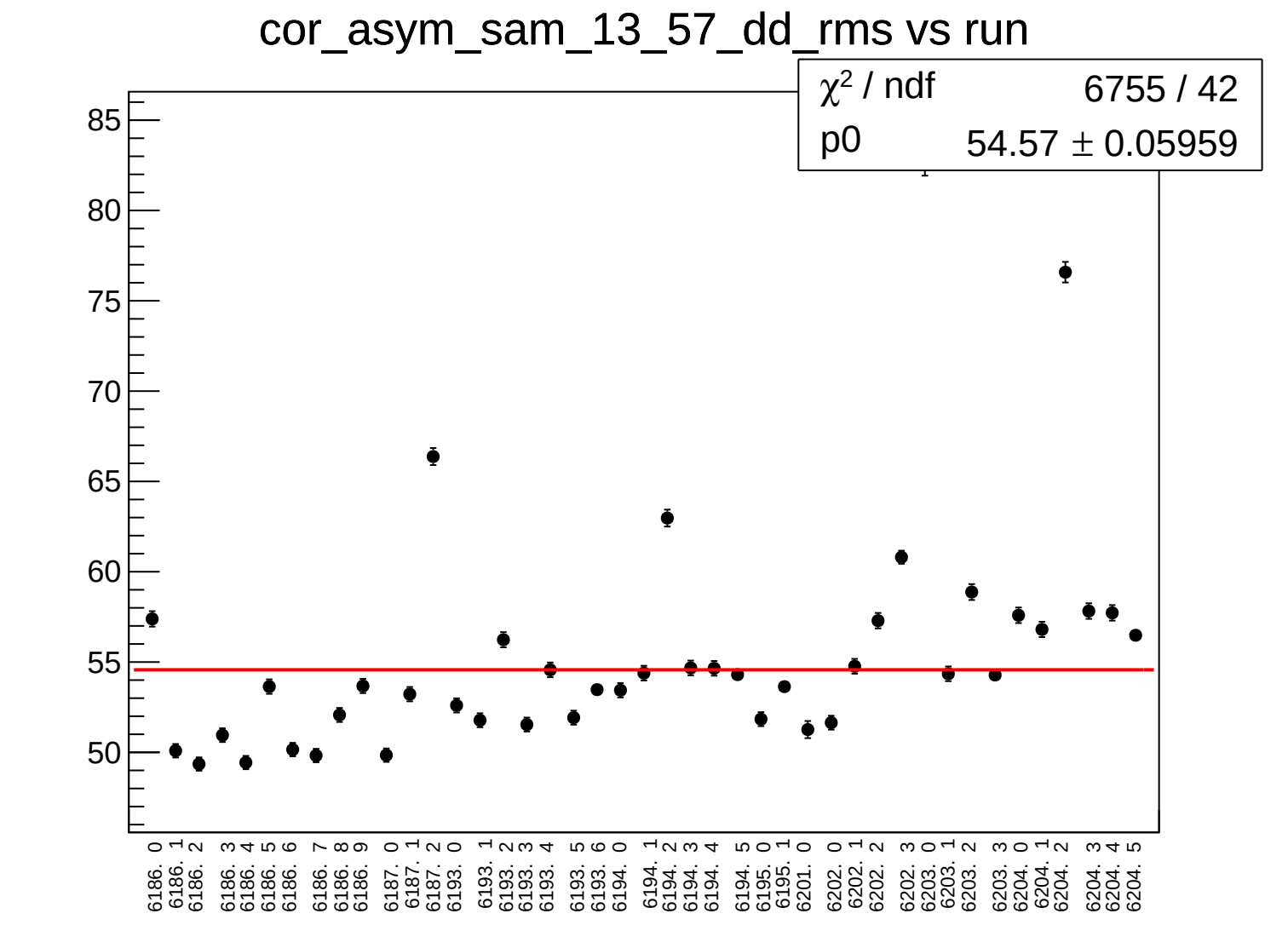
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 32.63 / 42
p0 74.84 ± 84.27
2000
1500
1000
500
0
−500
−1000
−1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 105.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.0193
Std Dev 0.8709
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 6755 / 42
p0 54.57 ± 0.05959
85
80
75
70
65
60
55
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
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6194. 2
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6202. 1
6202. 2
6202. 3
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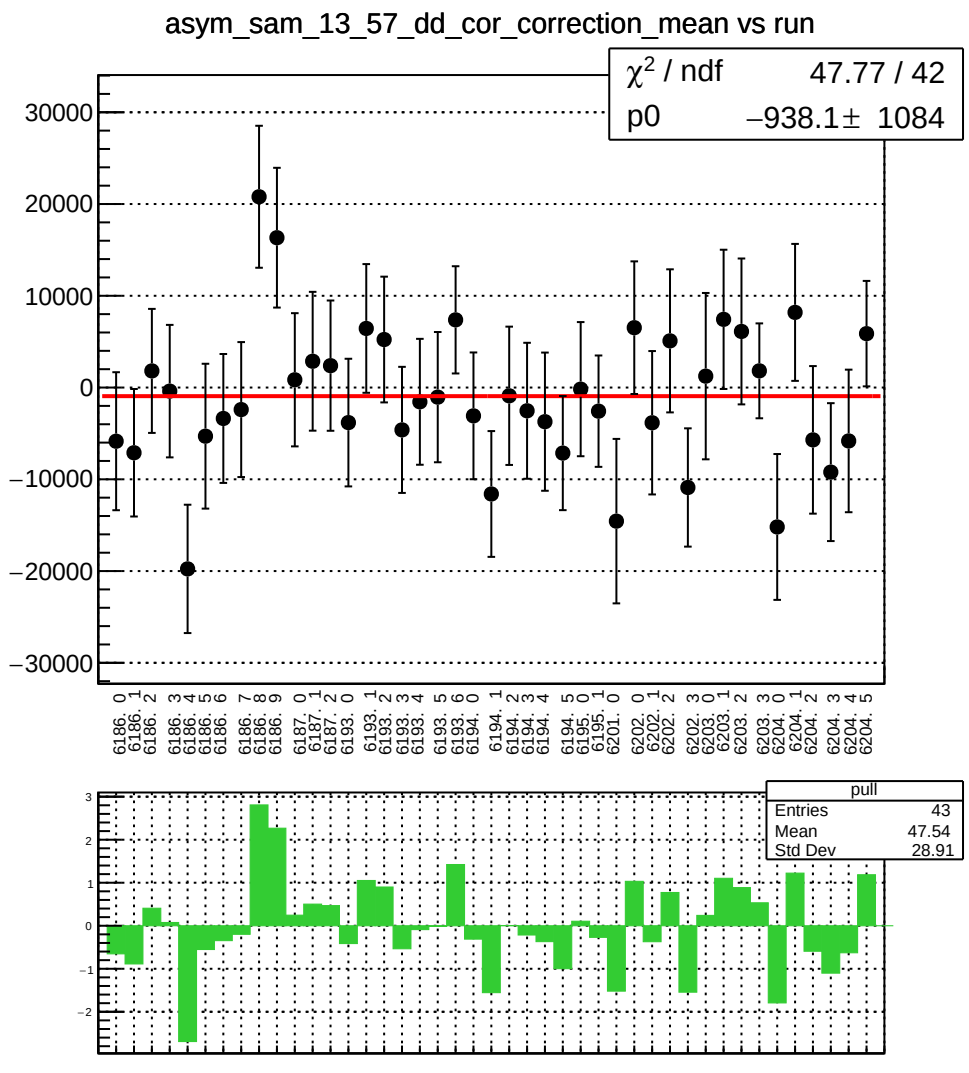
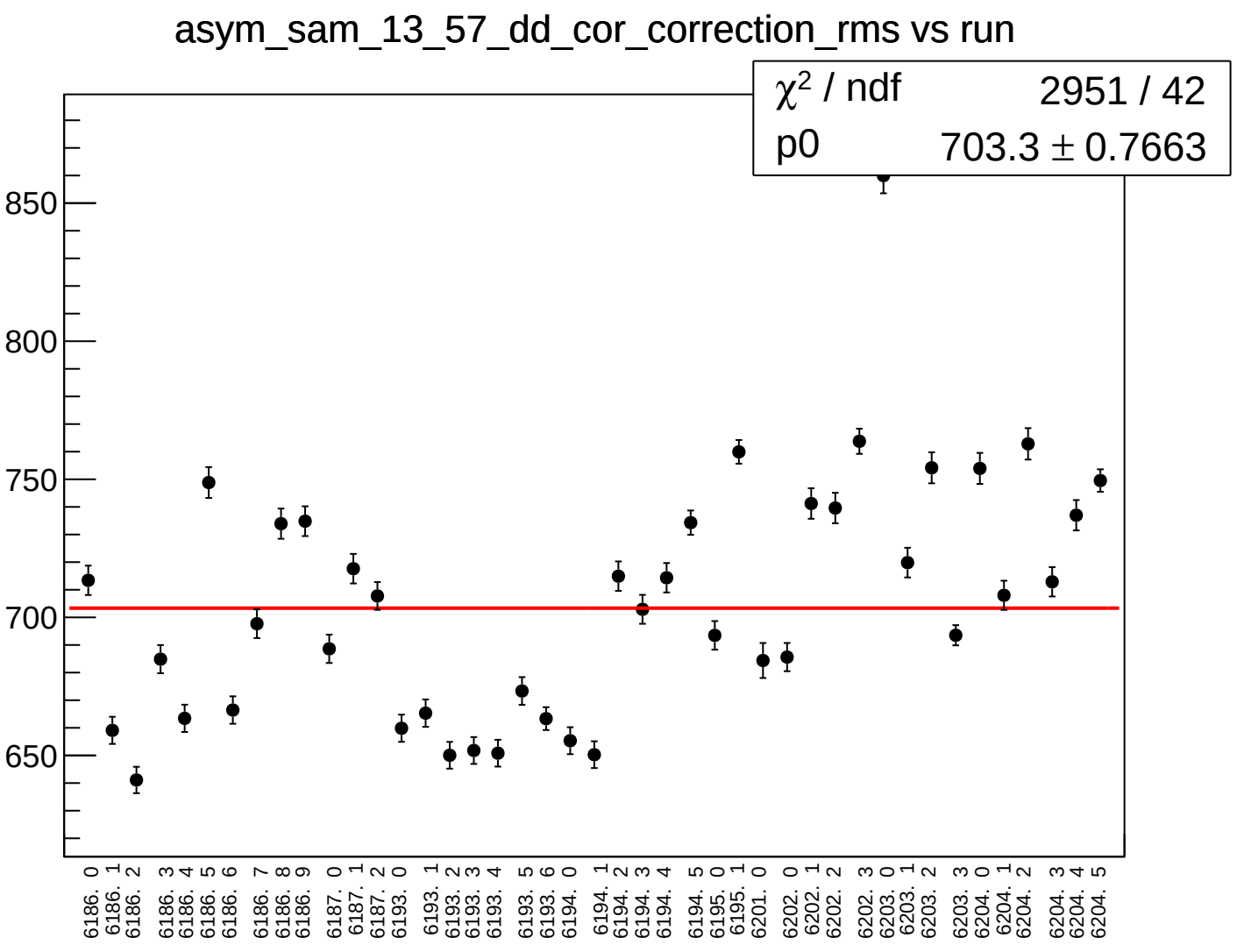
6204. 3
6204. 4
6204. 5


asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 47.77 / 42
p0 −938.1± 1084
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 47.54
Std Dev 28.91
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.009598
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 2951 / 42
p0 703.3 ± 0.7663
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
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6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
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6193. 5
6193. 6
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6194. 1
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6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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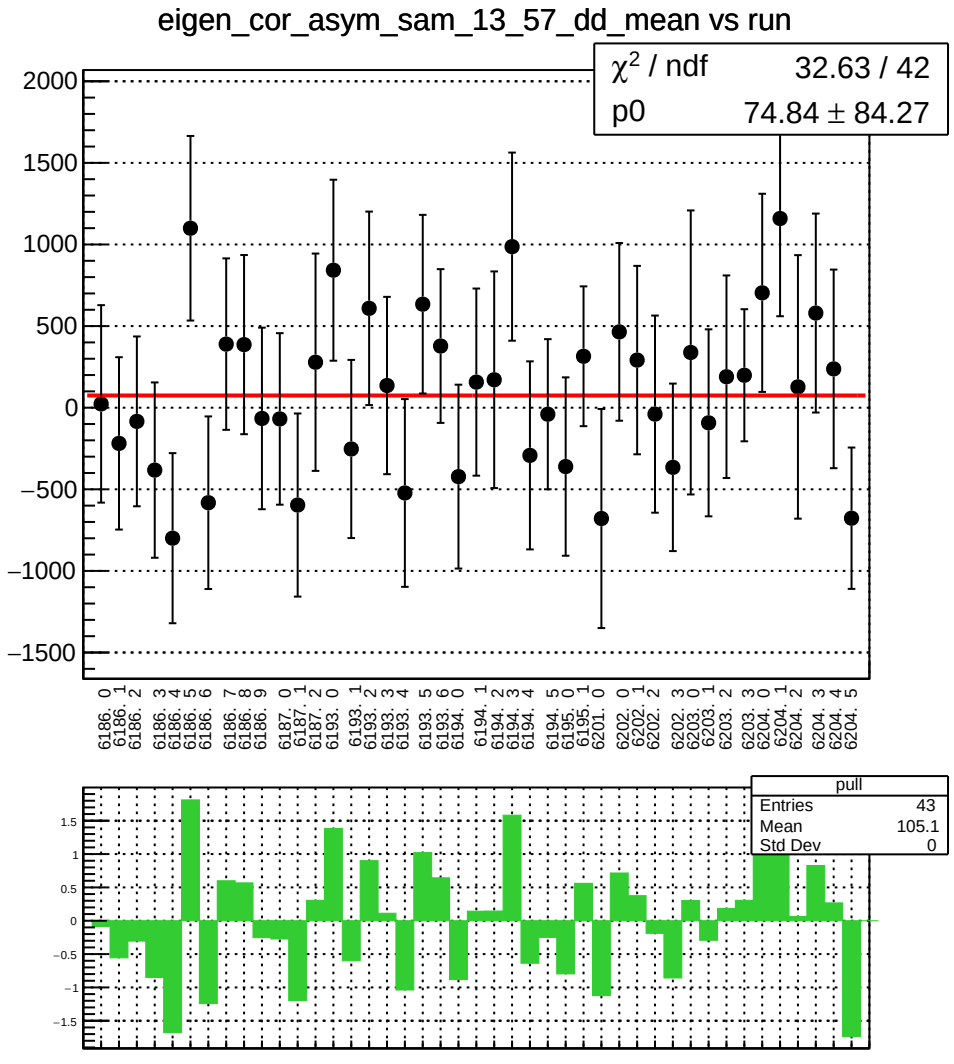
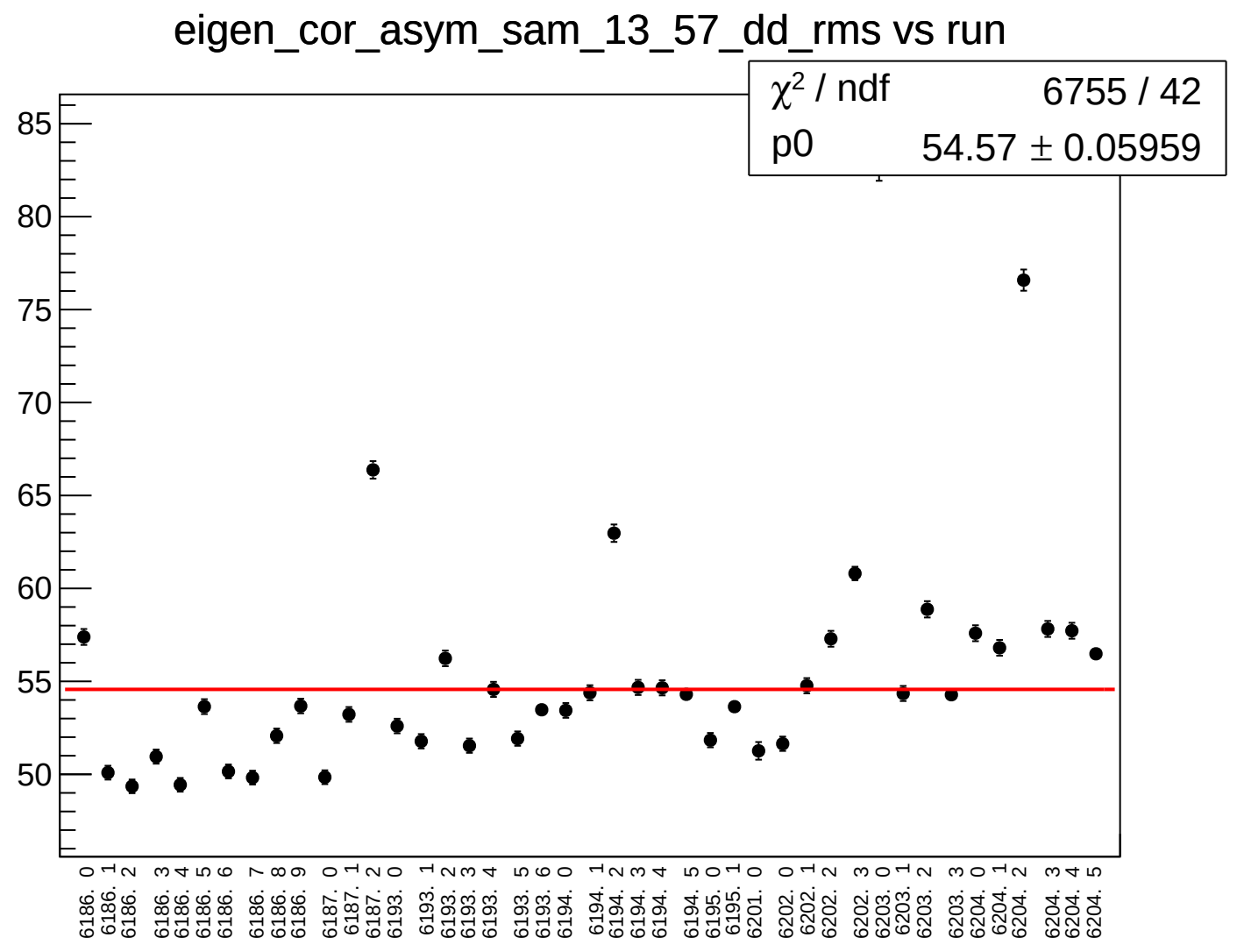
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 32.63 / 42
p0 74.84 ± 84.27
2000
1500
1000
500
0
−500
−1000
−1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 105.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.0193
Std Dev 0.8709
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 6755 / 42
p0 54.57 ± 0.05959
85
80
75
70
65
60
55
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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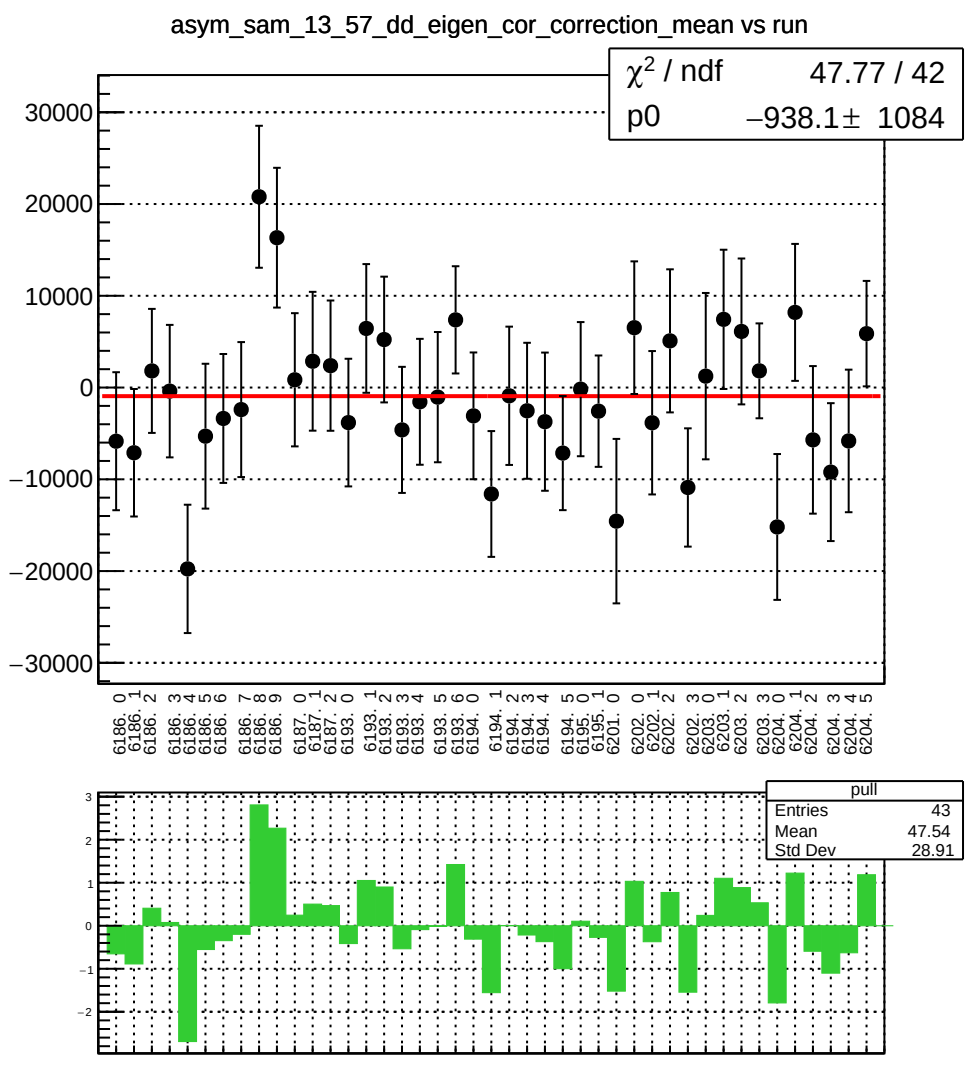
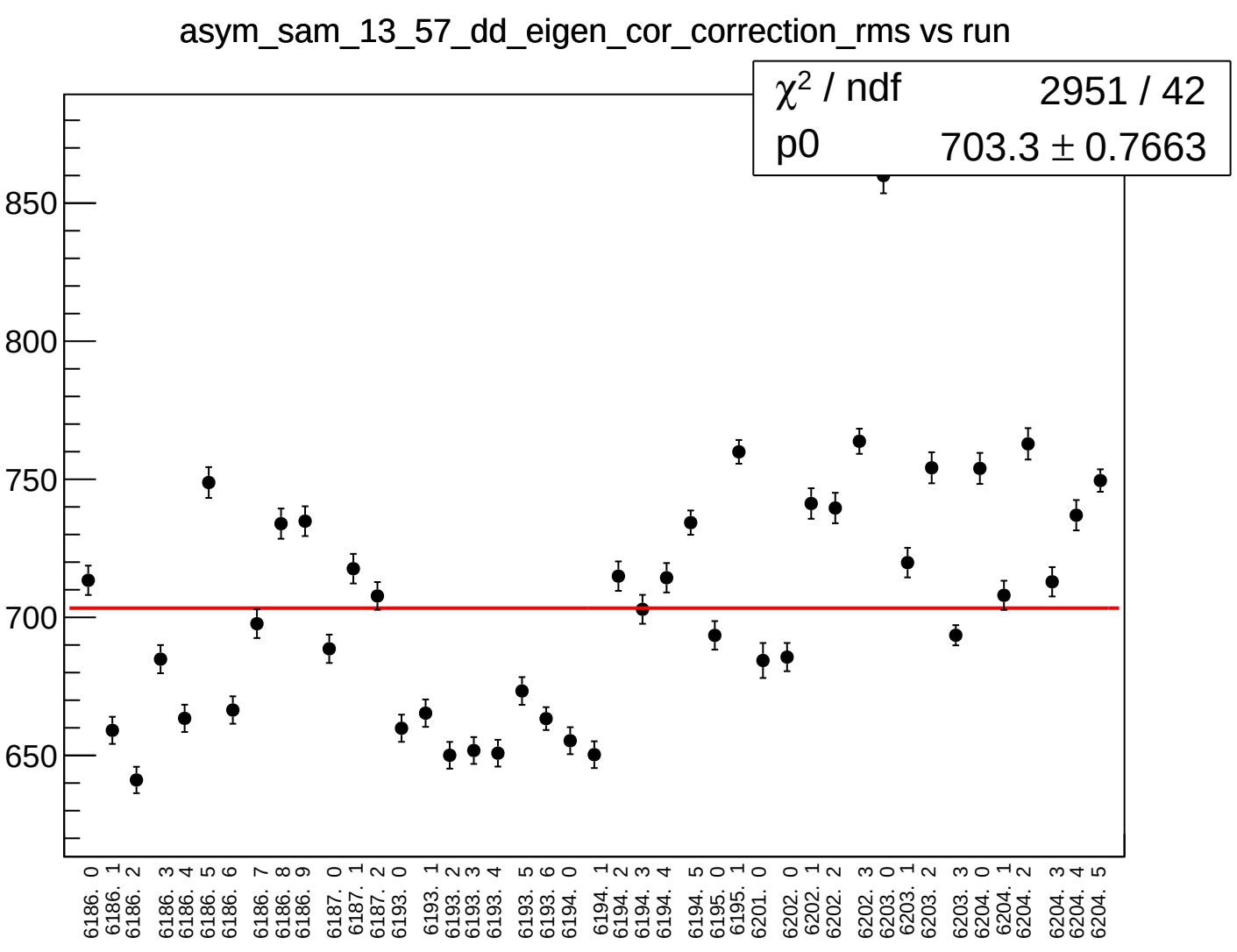
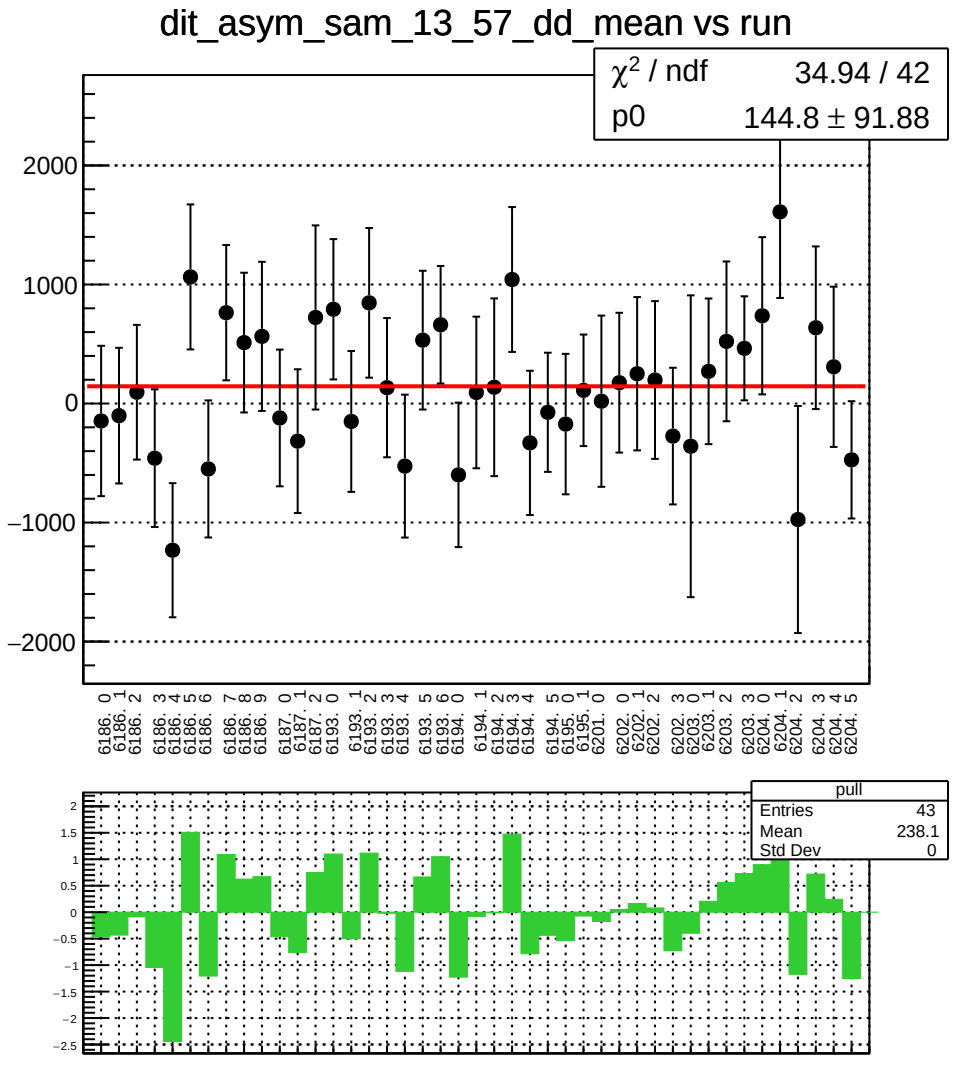
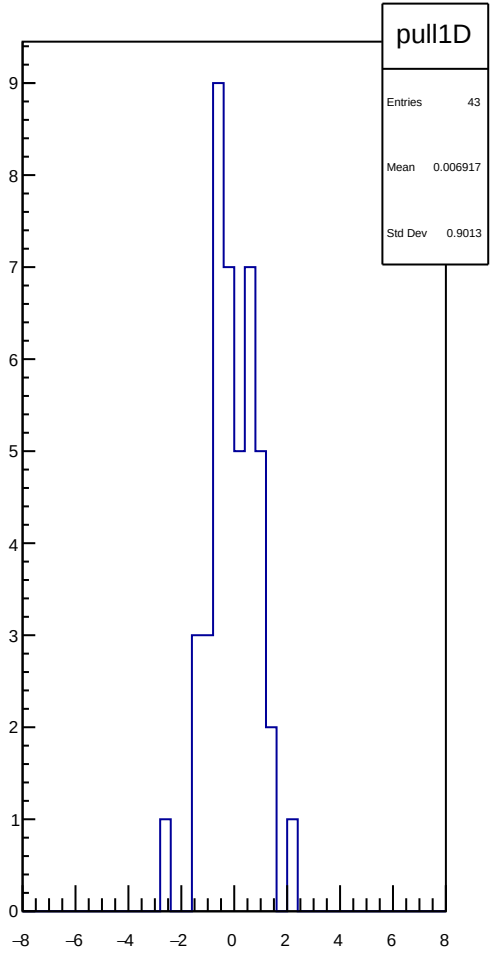
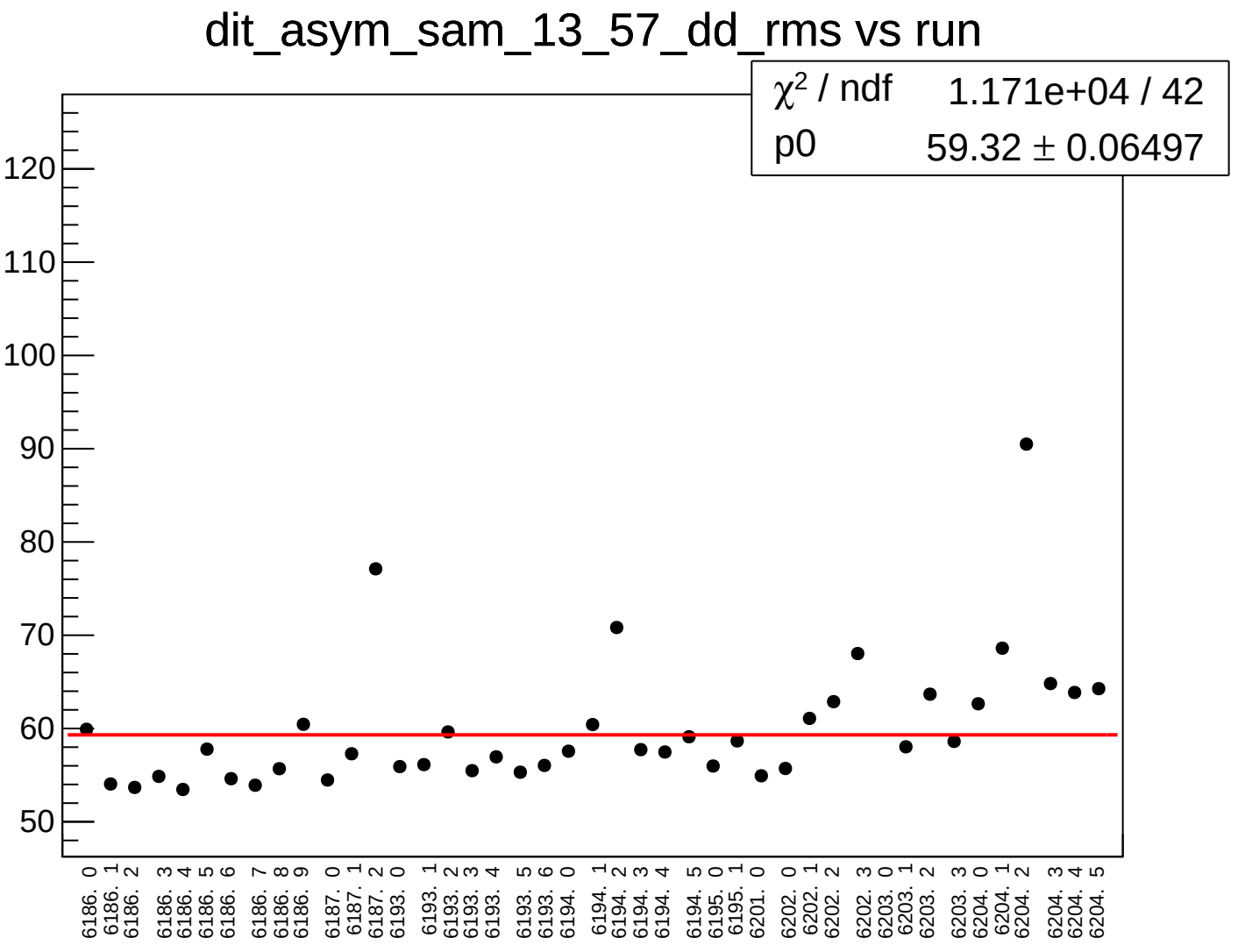
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

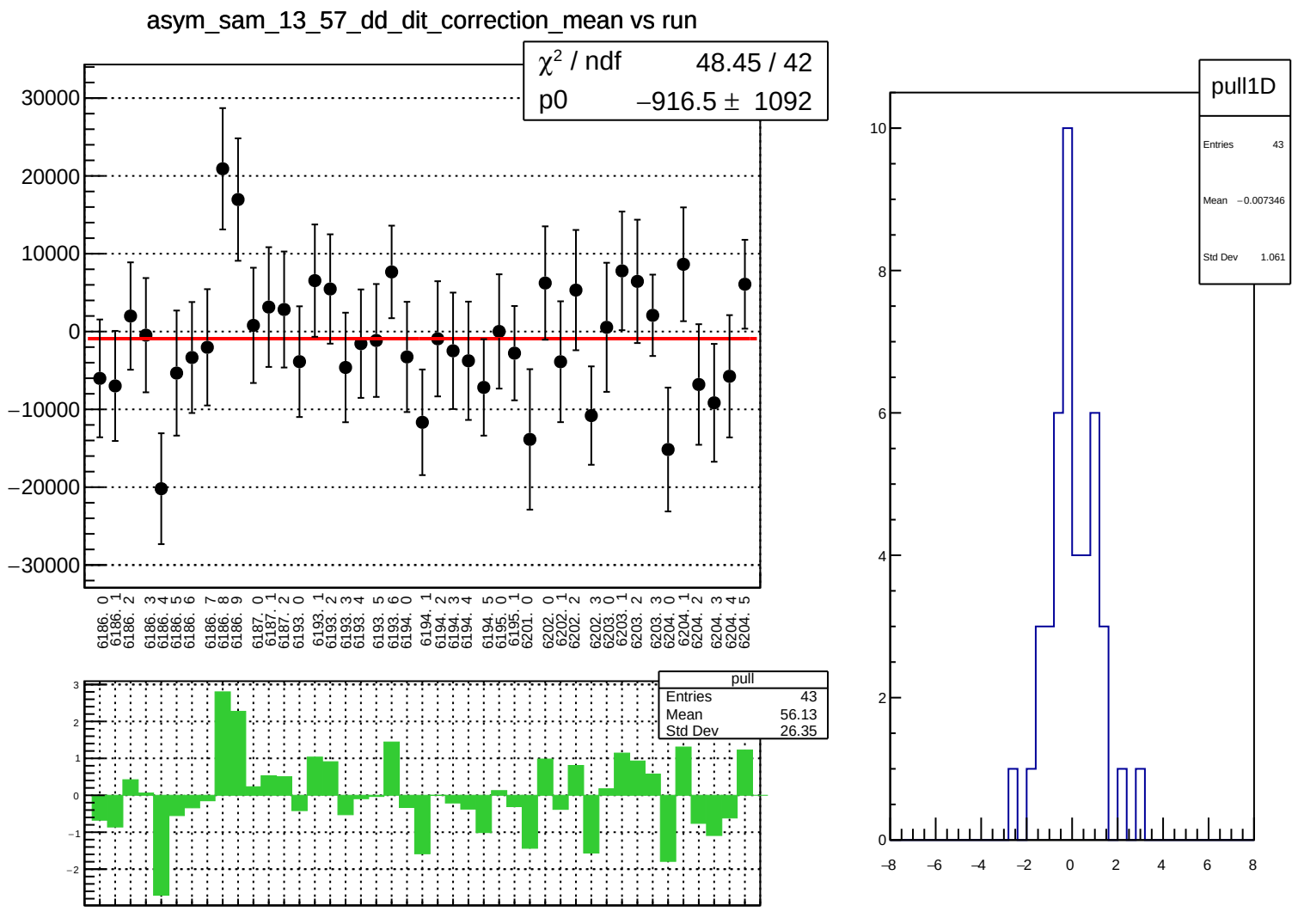

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 47.77 / 42
p0 −938.1± 1084
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 47.54
Std Dev 28.91
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.009598
Std Dev 1.054
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

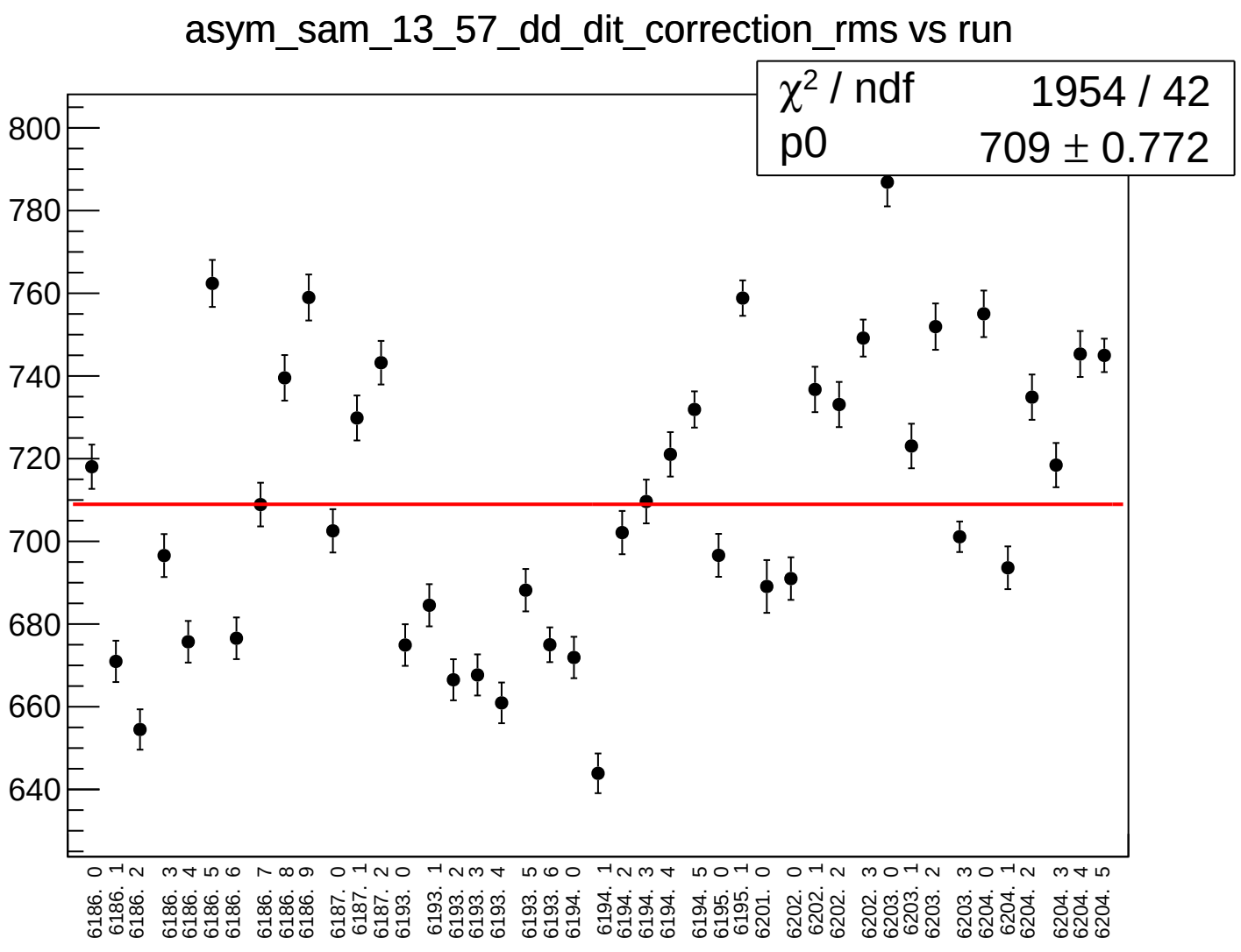

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 2951 / 42
p0 703.3 ± 0.7663
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

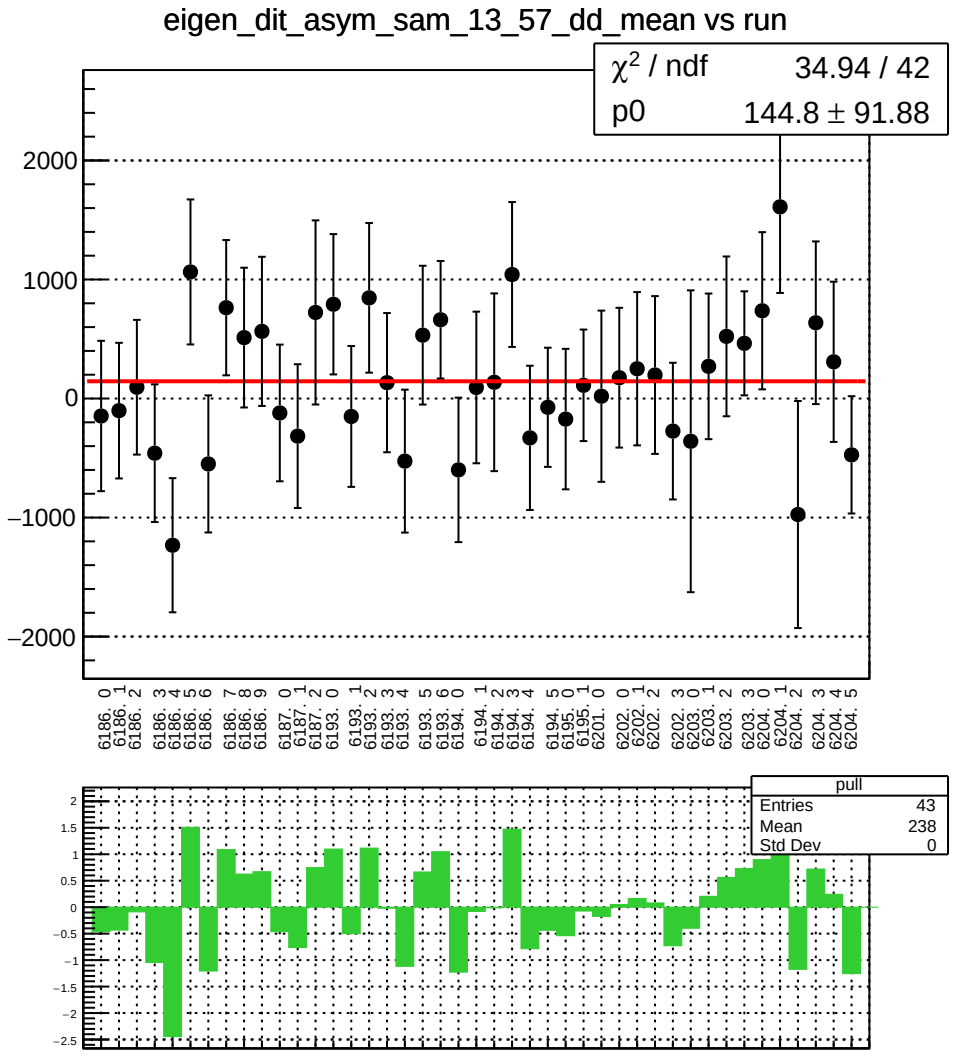

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 34.94 / 42
p0 144.8 ± 91.88
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 238.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

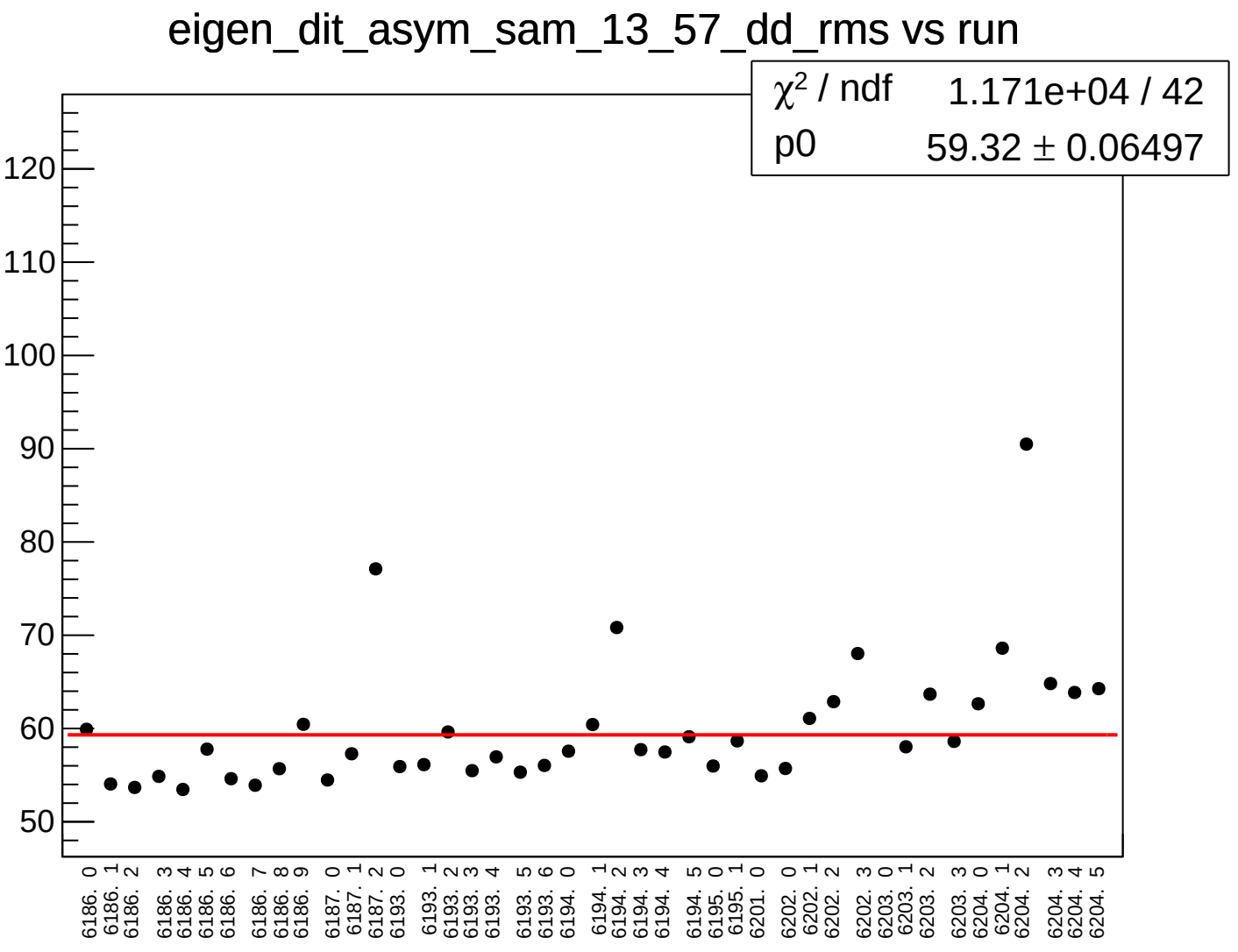

pull1D
Entries 43
Mean 0.006917
Std Dev 0.9013
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

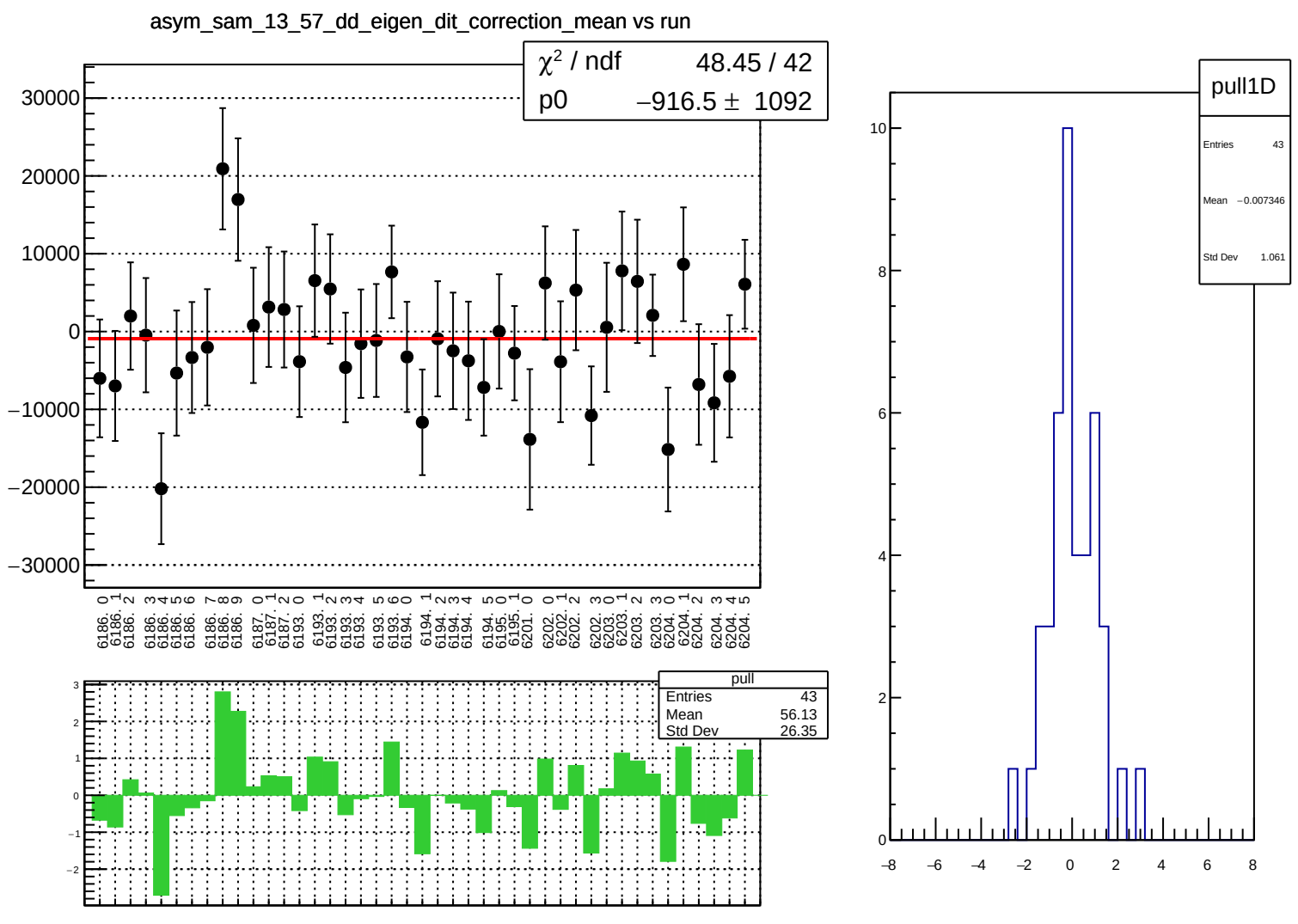

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.171e+04 / 42
p0 59.32 ± 0.06497
120
110
100
90
80
70
60
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

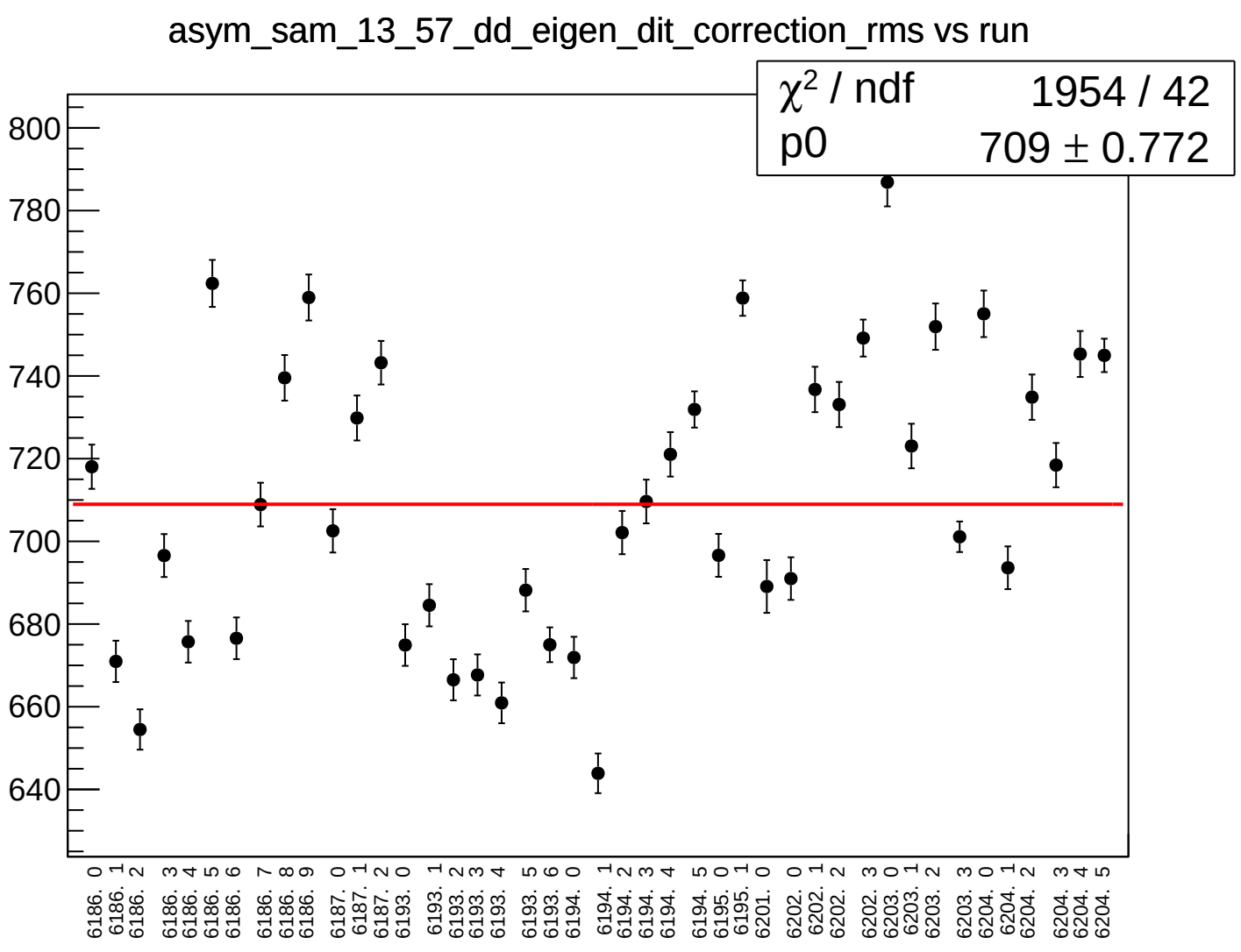

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 48.45 / 42
p0 −916.5 ± 1092
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 56.13
Std Dev 26.35
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.007346
Std Dev 1.061
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

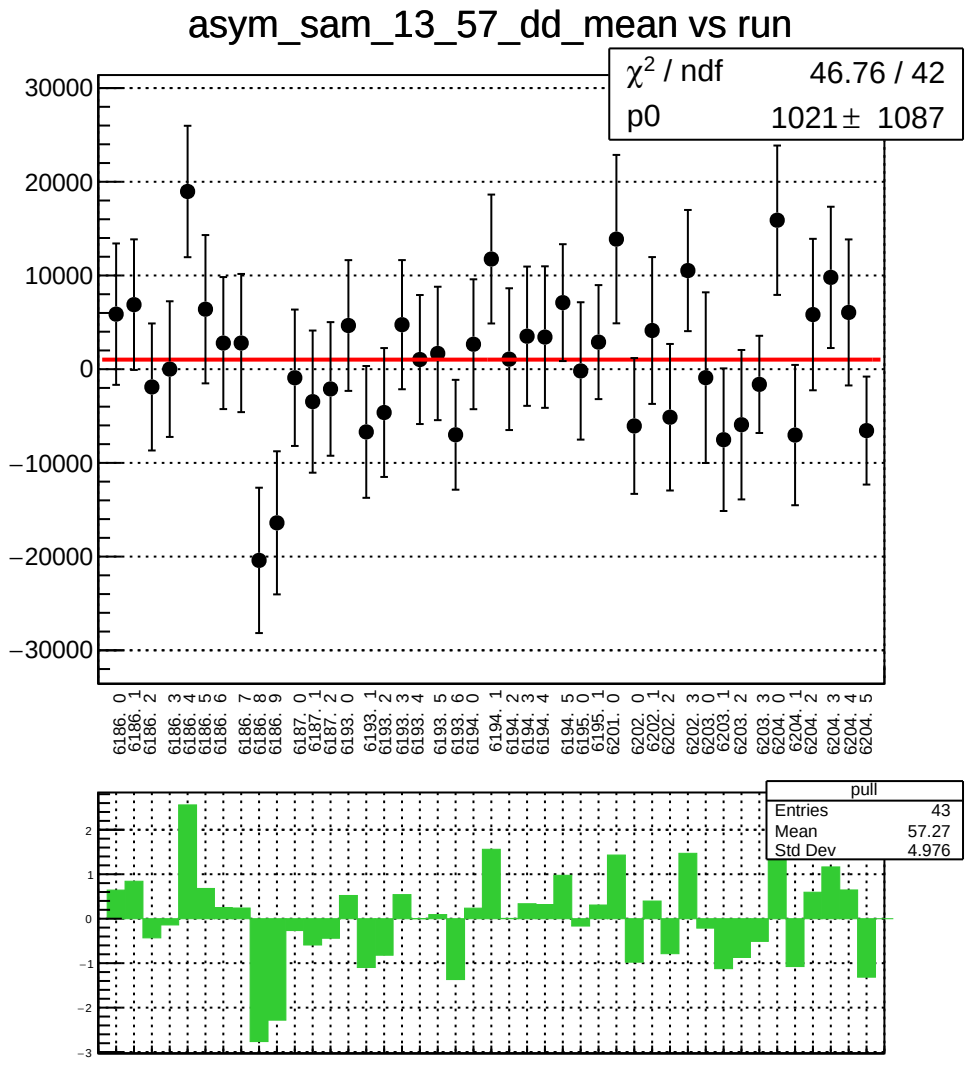

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 1954 / 42
p0 709 ± 0.772
800
780
760
740
720
700
680
660
640
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

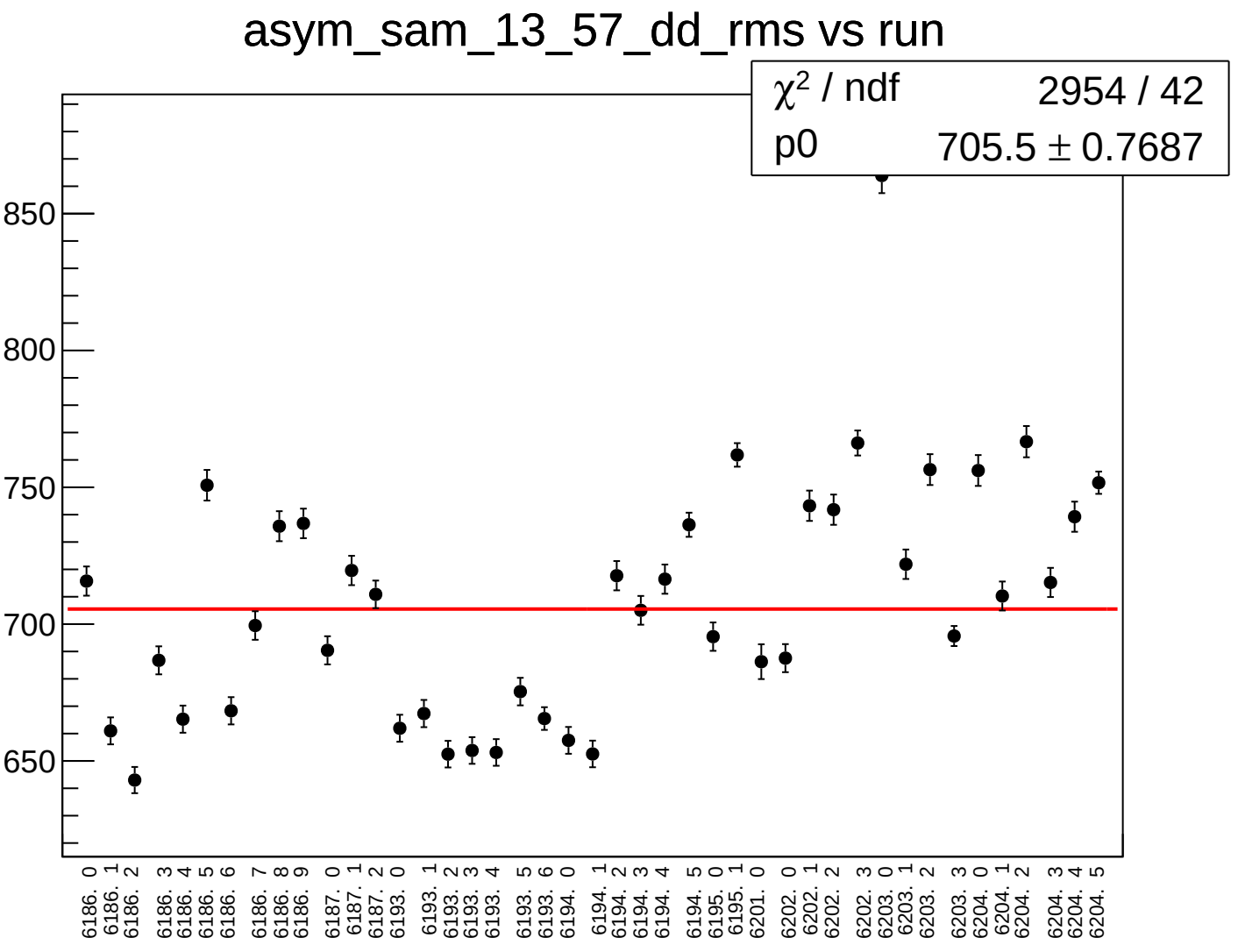

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 34.94 / 42
p0 144.8 ± 91.88
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 238
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.006917
Std Dev 0.9013
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

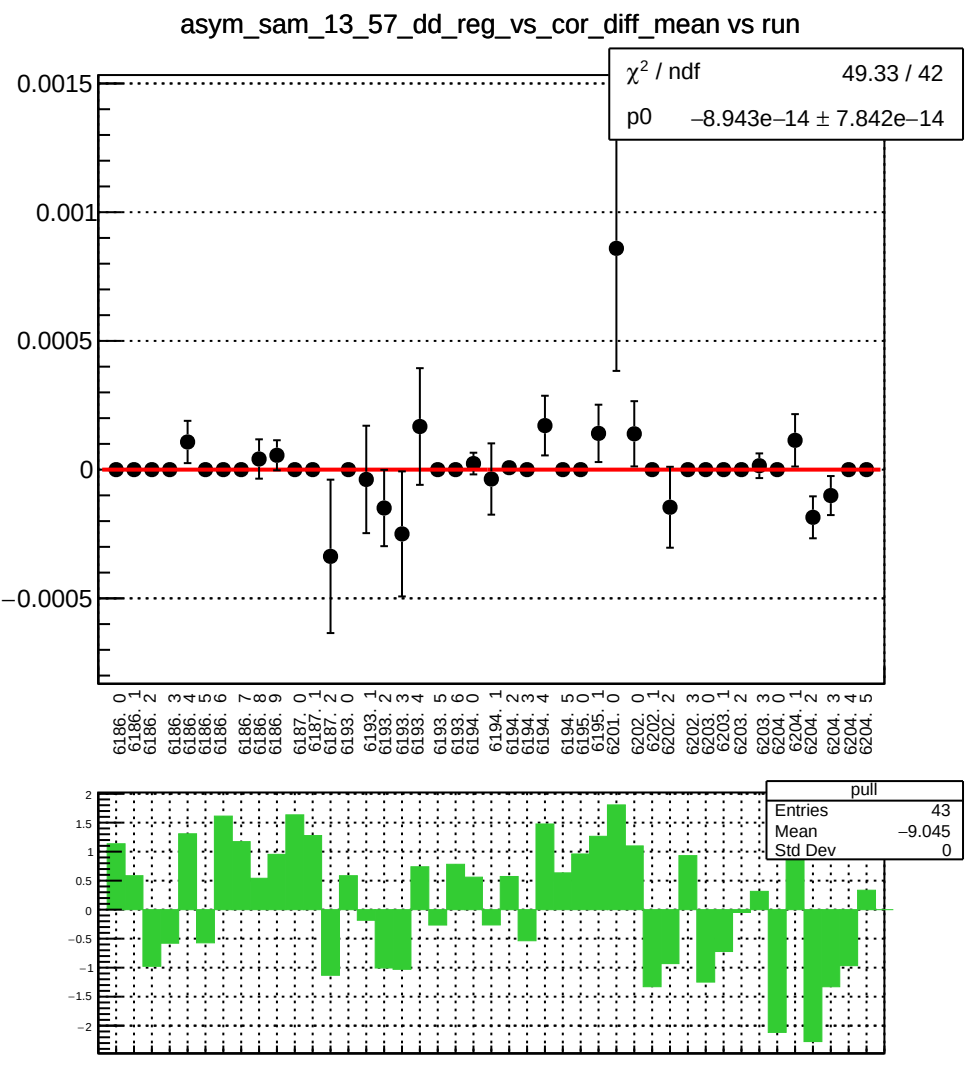

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.171e+04 / 42
p0 59.32 ± 0.06497
120
110
100
90
80
70
60
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

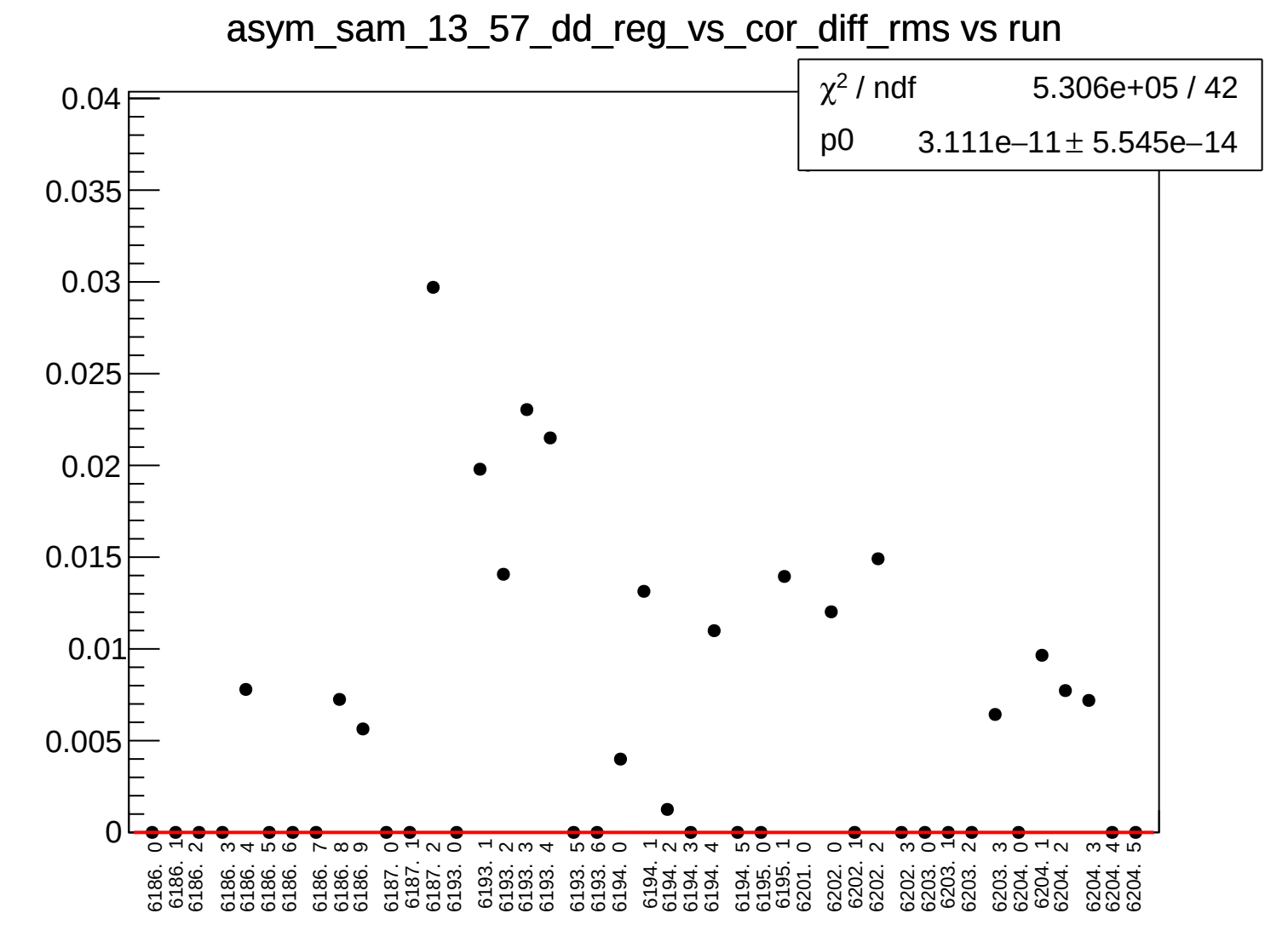

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 48.45 / 42
p0 −916.5 ± 1092
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 56.13
Std Dev 26.35
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.007346
Std Dev 1.061
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

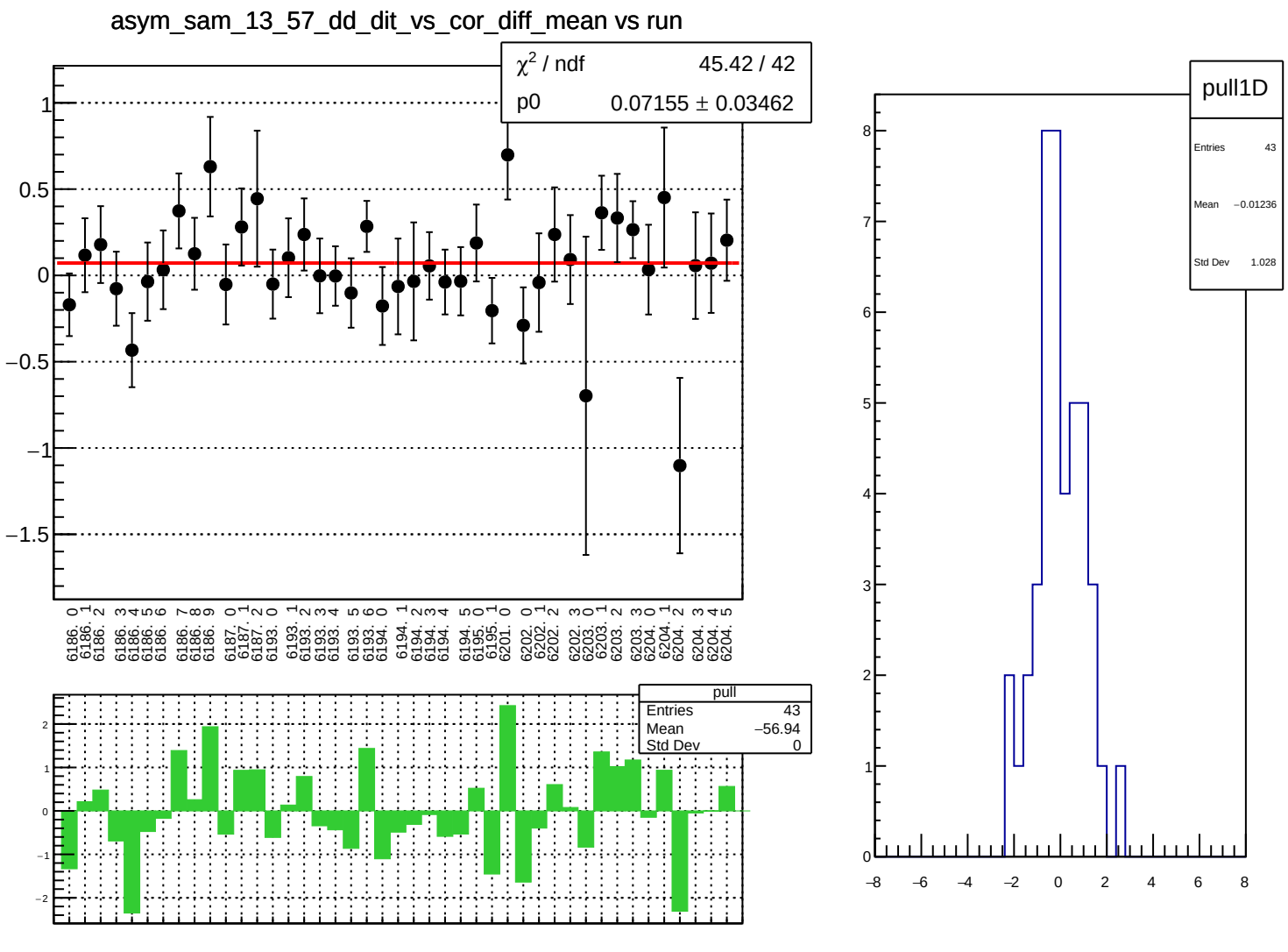

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 1954 / 42
p0 709 ± 0.772
800
780
760
740
720
700
680
660
640
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

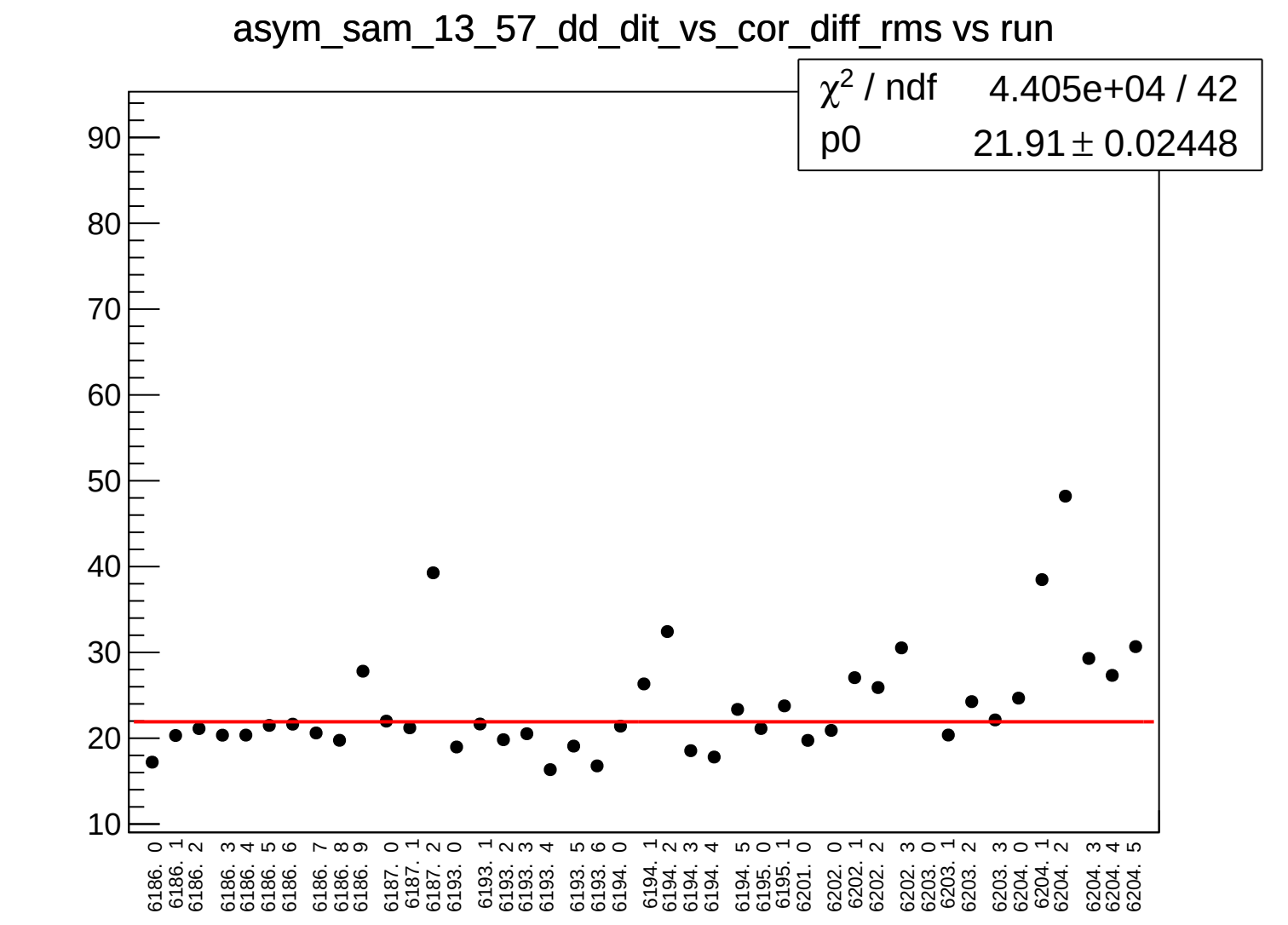

asym_sam_13_57_dd_mean vs run
χ² / ndf 46.76 / 42
p0 1021 ± 1087
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 57.27
Std Dev 4.976
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01057
Std Dev 1.043
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

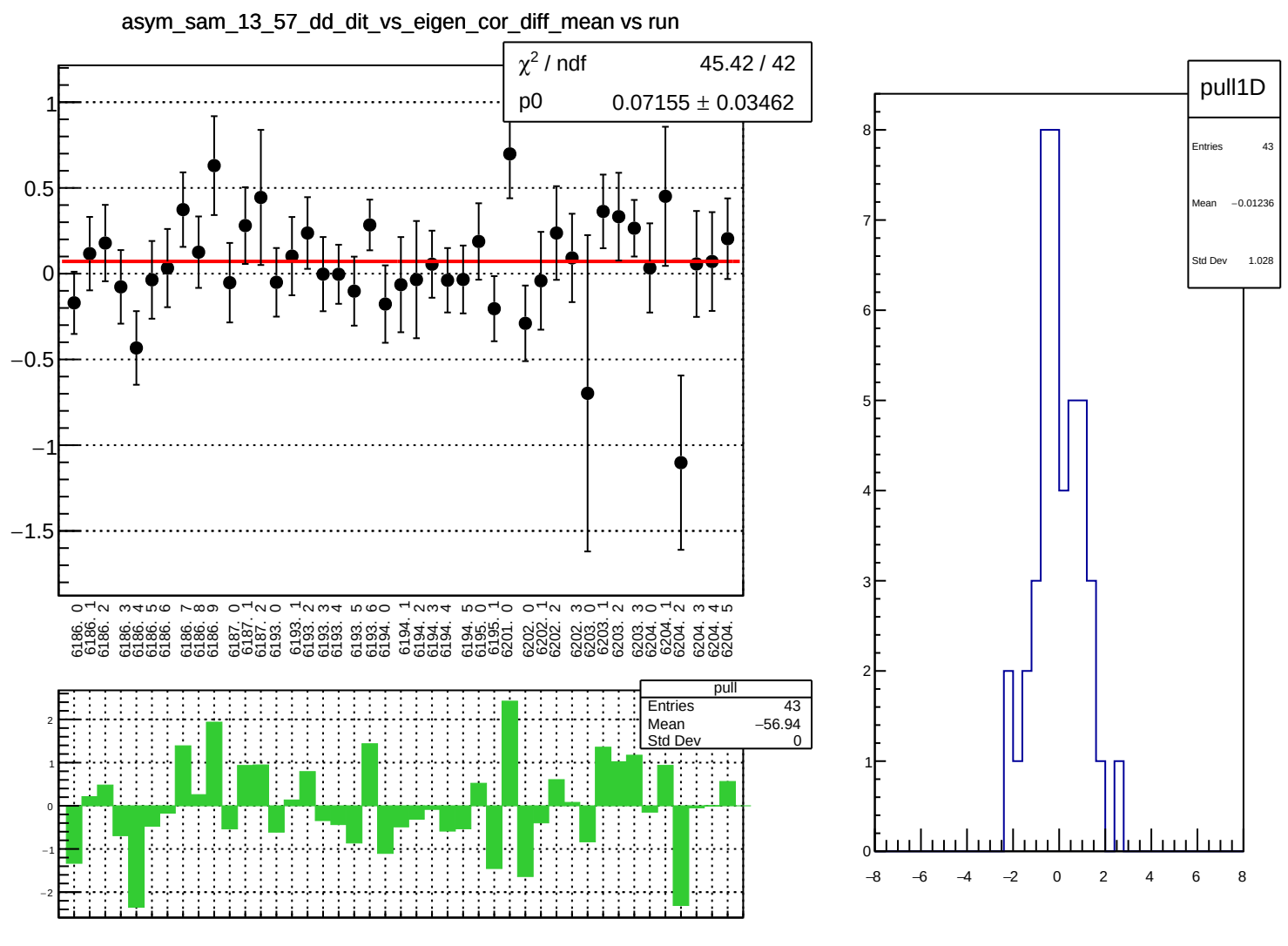

asym_sam_13_57_dd_rms vs run
χ² / ndf 2954 / 42
p0 705.5 ± 0.7687
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

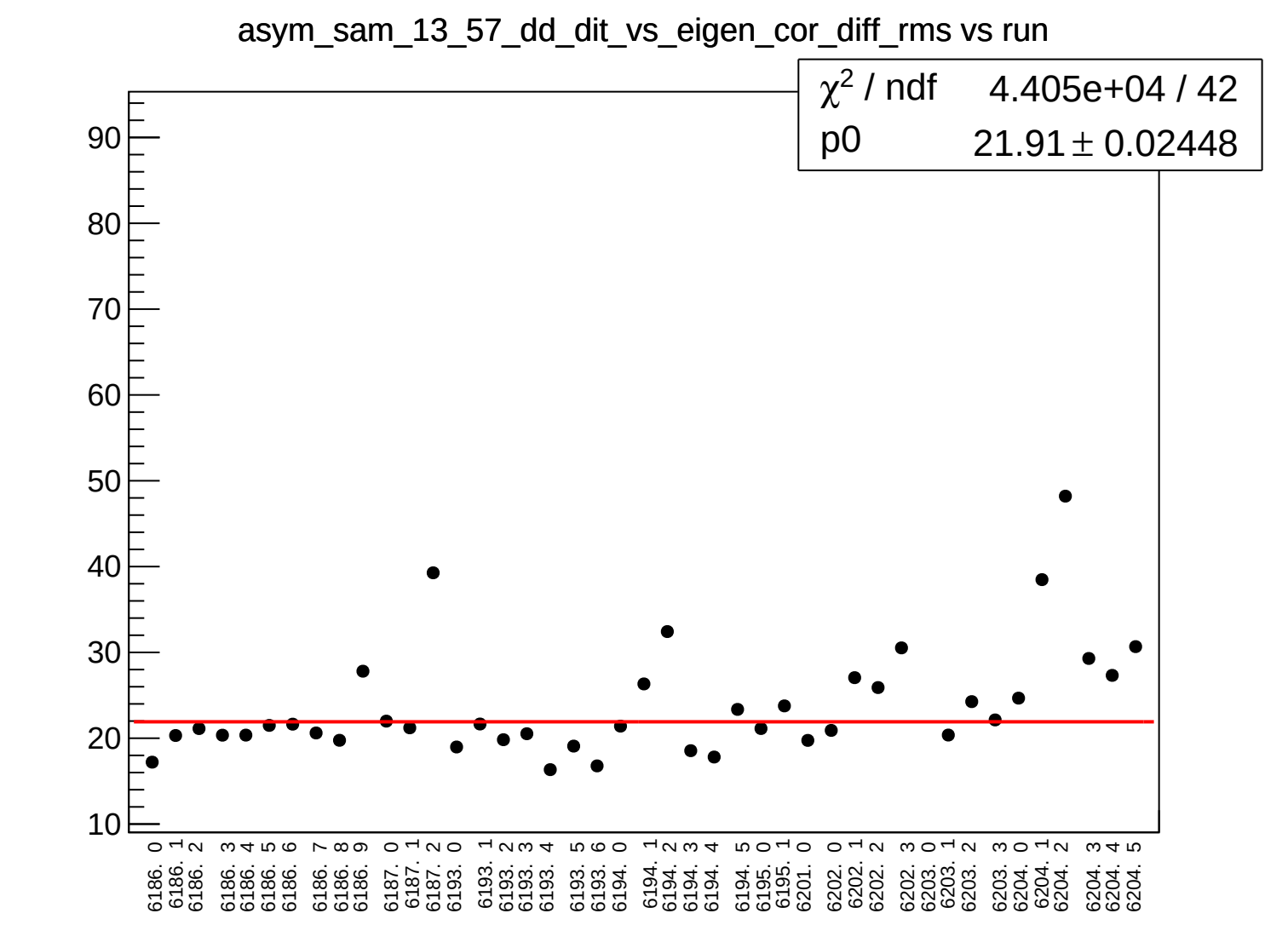

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 49.33 / 42
p0 −8.943e−14 ± 7.842e−14
0.0015
0.001
0.0005
0
−0.0005
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −9.045
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.1372
Std Dev 1.062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

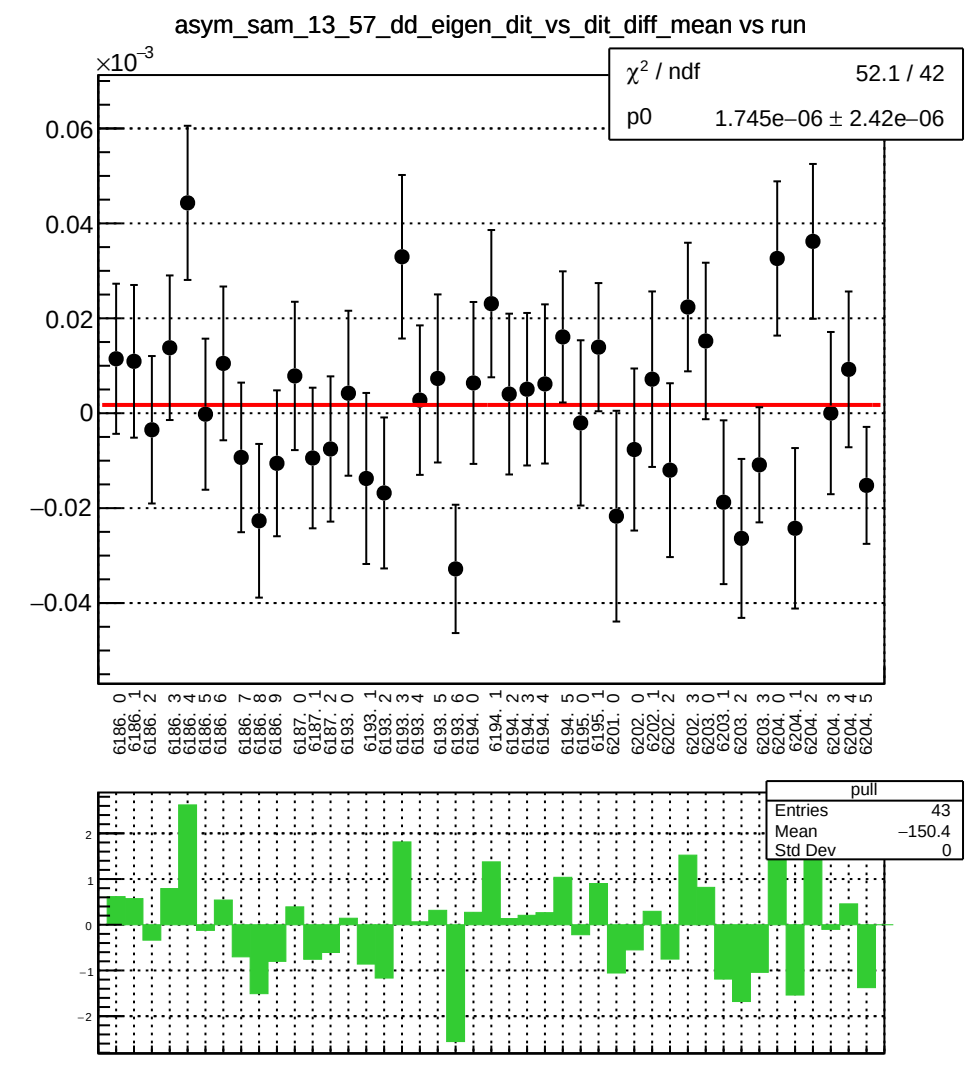

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.306e+05 / 42
p0 3.111e−11 ± 5.545e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

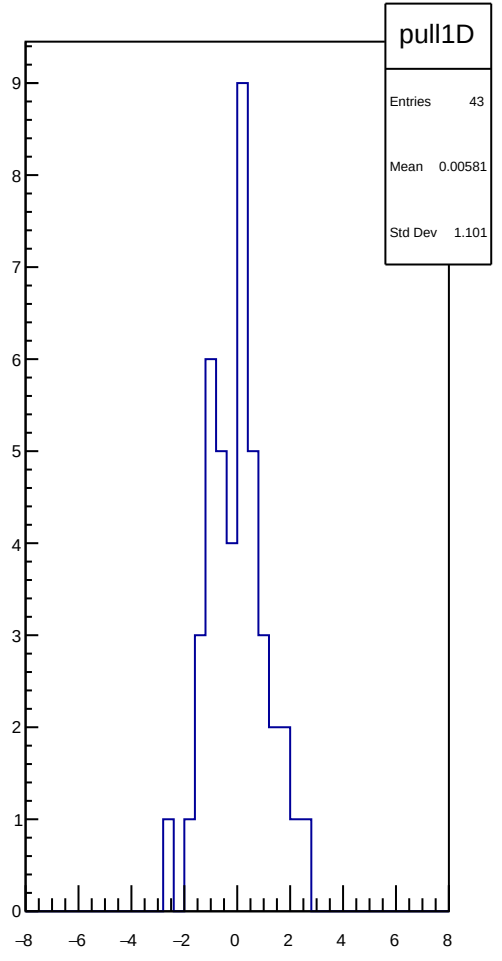

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 45.42 / 42
p0 0.07155 ± 0.03462
pull
Entries 43
Mean −56.94
Std Dev 0
pull1D
Entries 43
Mean −0.01236
Std Dev 1.028

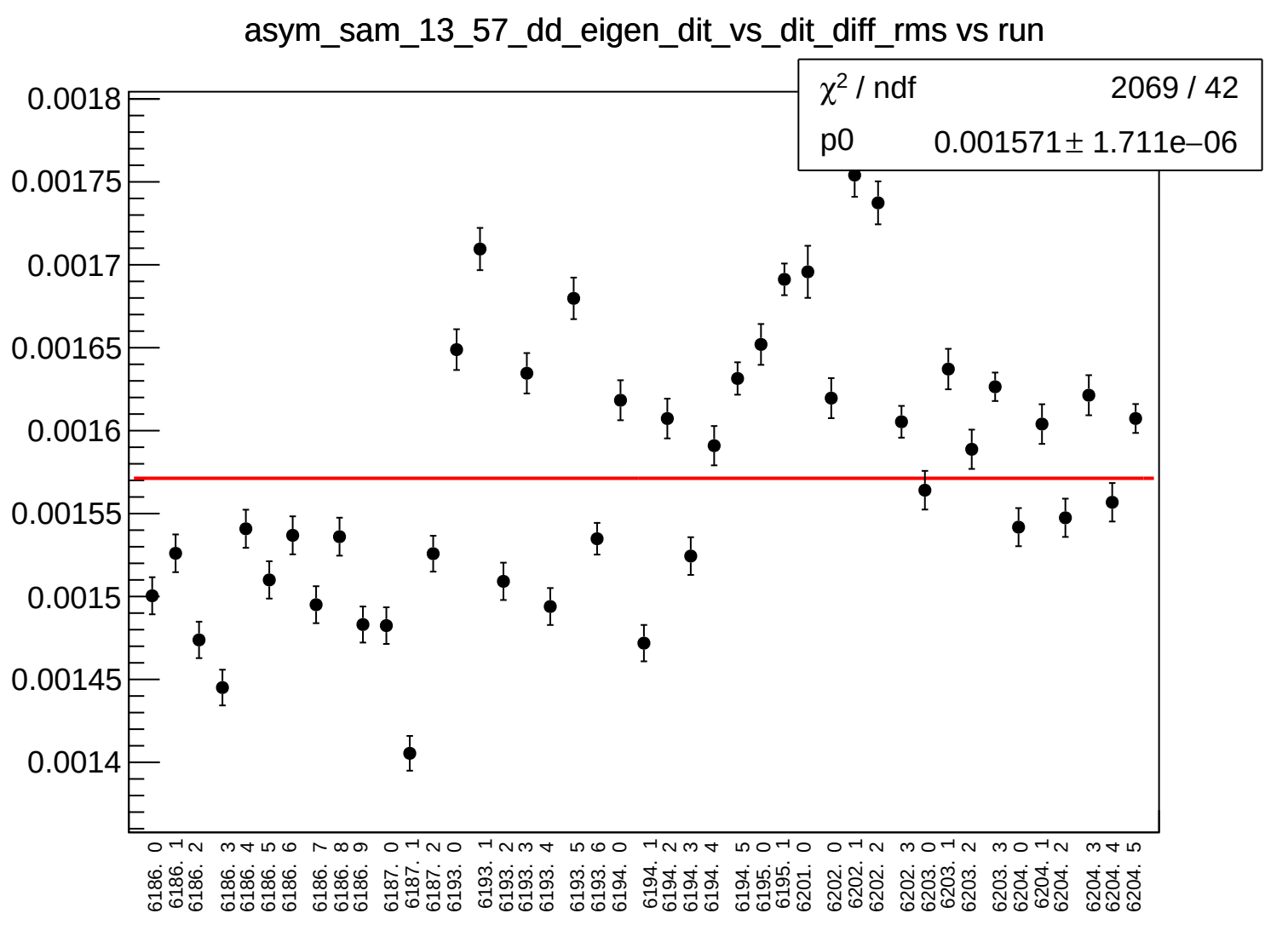

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.405e+04 / 42
p0 21.91 ± 0.02448
90
80
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

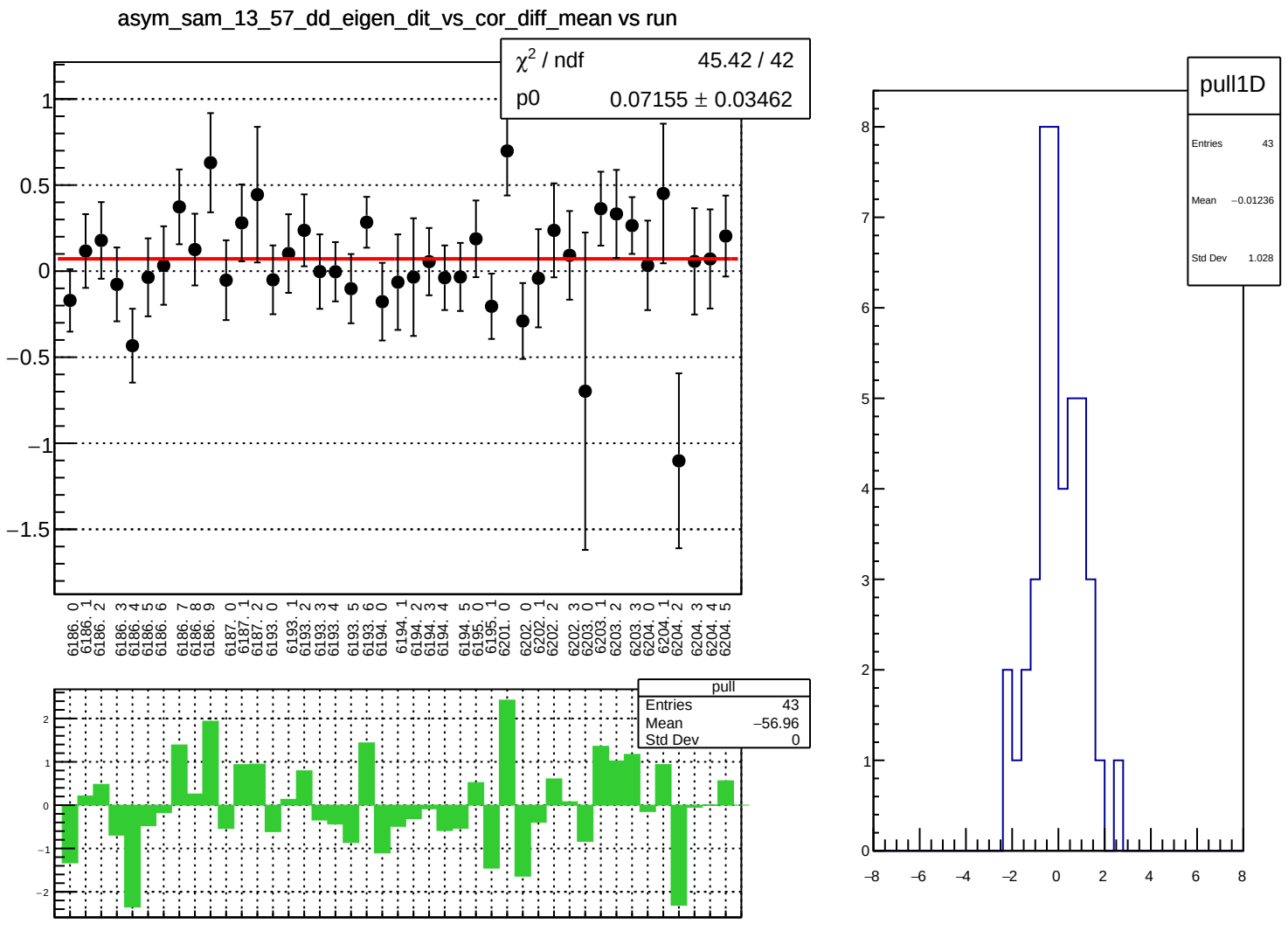

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.42 / 42
p0 0.07155 ± 0.03462
pull
Entries 43
Mean −56.94
Std Dev 0
pull1D
Entries 43
Mean −0.01236
Std Dev 1.028

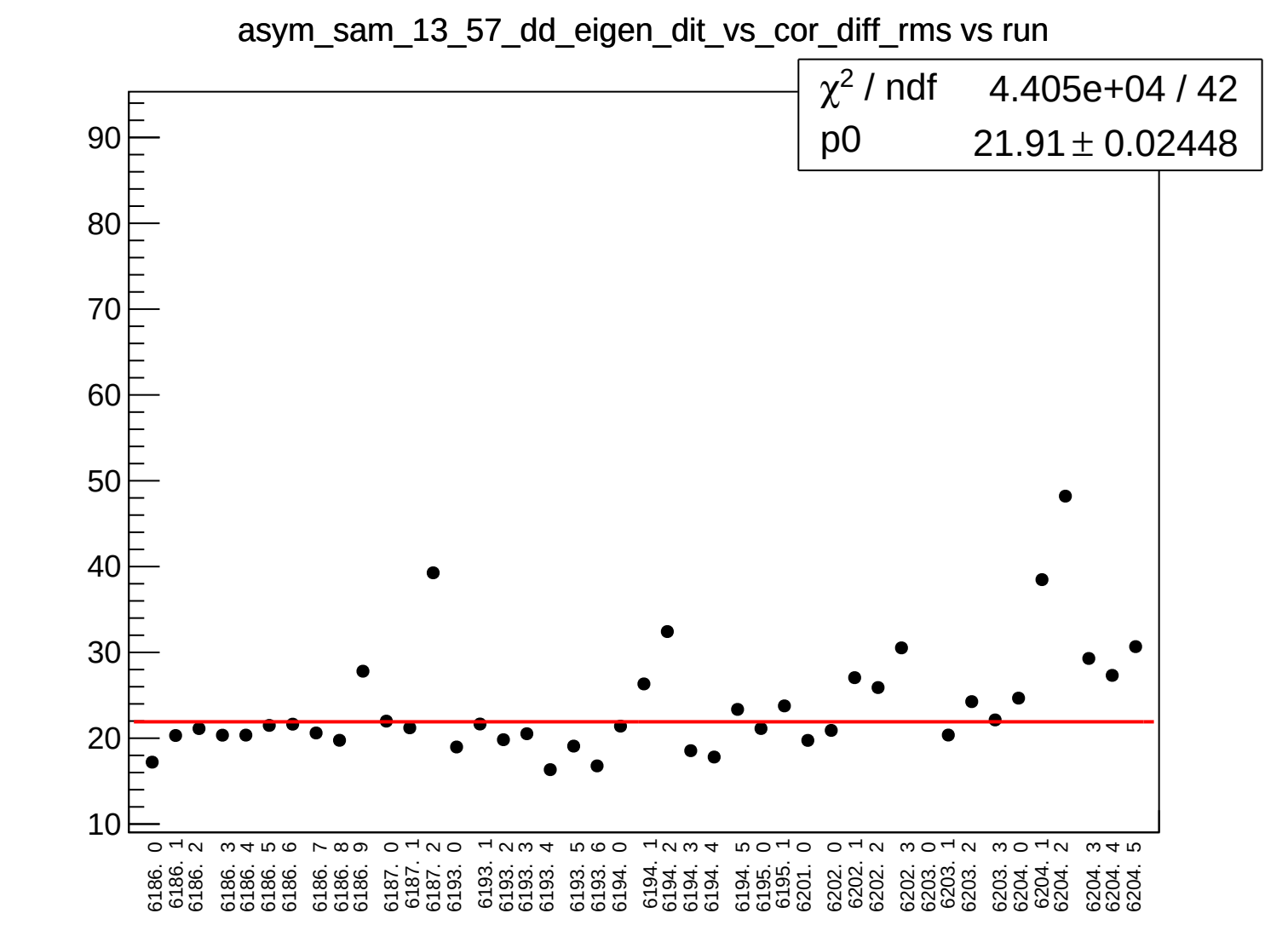

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.405e+04 / 42
p0 21.91 ± 0.02448
90
80
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

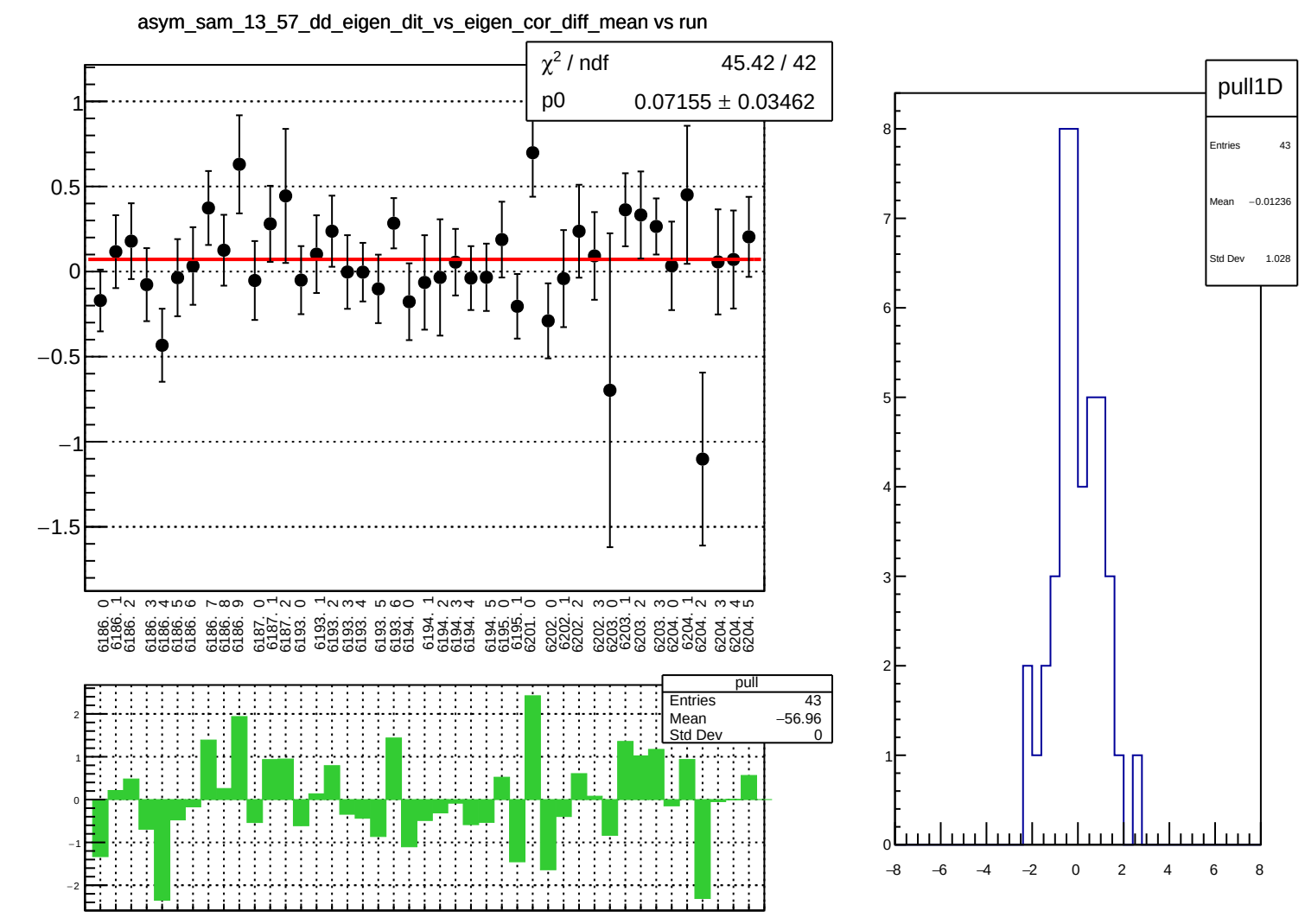

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 52.1 / 42
p0 1.745e−06 ± 2.42e−06
0.06
0.04
0.02
0
−0.02
−0.04
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −150.4
Std Dev 0
2
1
0
−1
−2

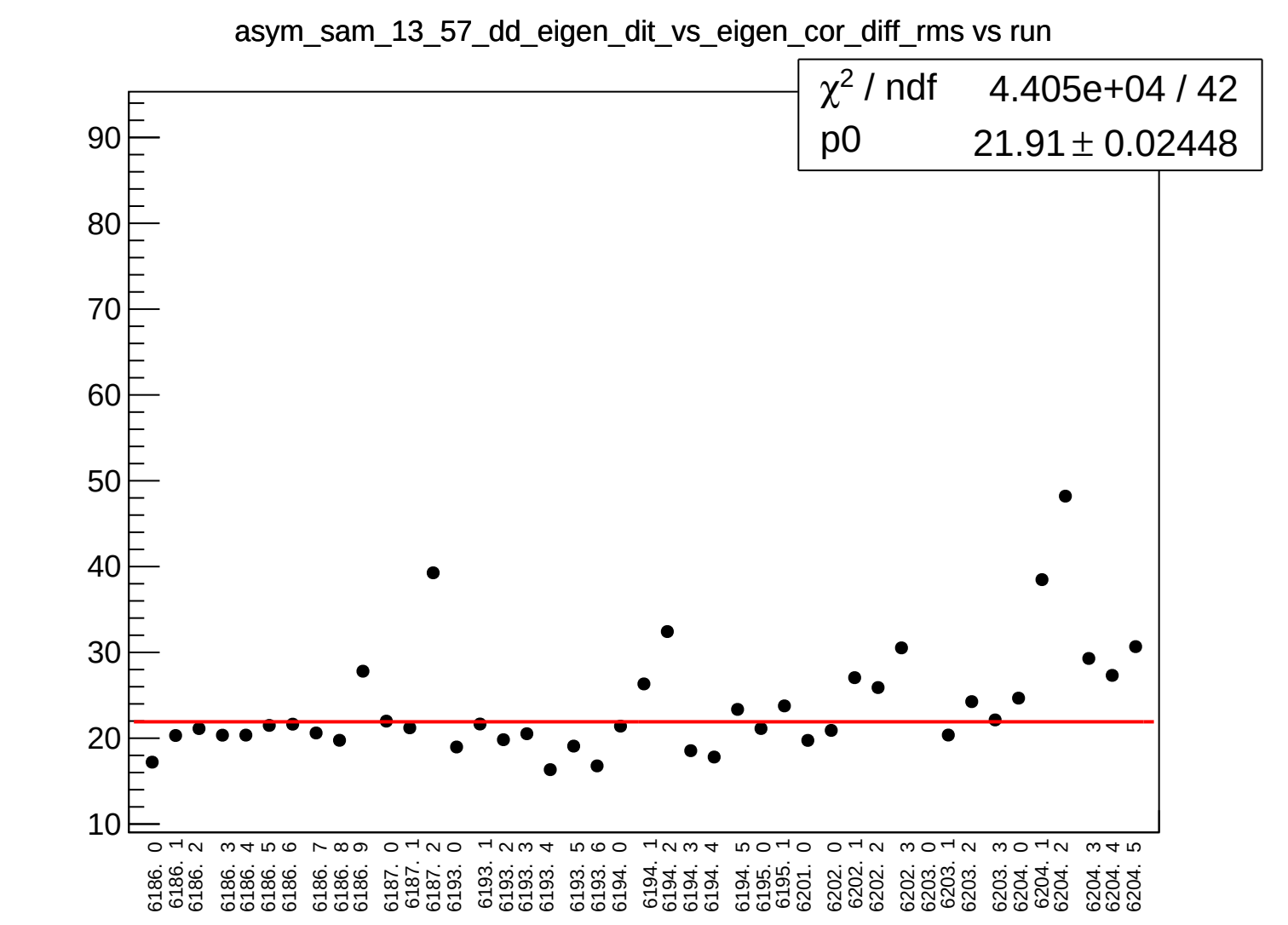

pull1D
Entries 43
Mean 0.00581
Std Dev 1.101
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

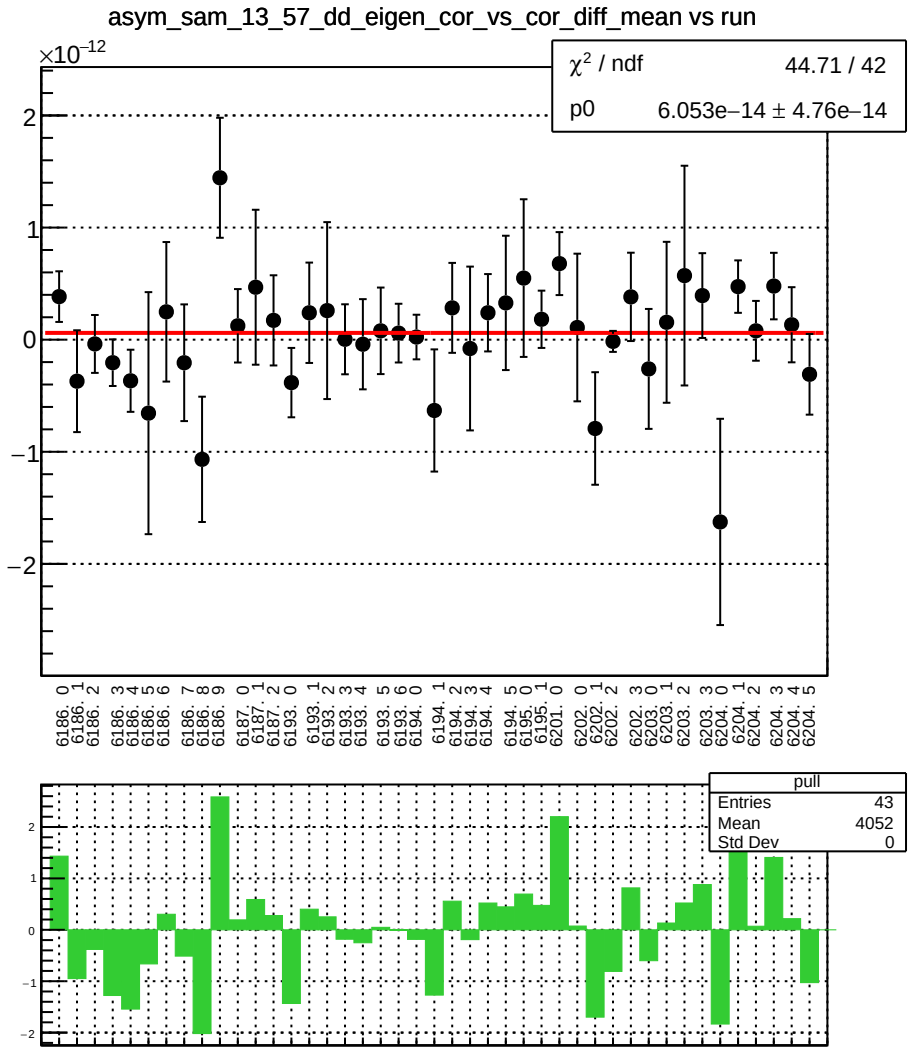

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2069 / 42
p0 0.001571 ± 1.711e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

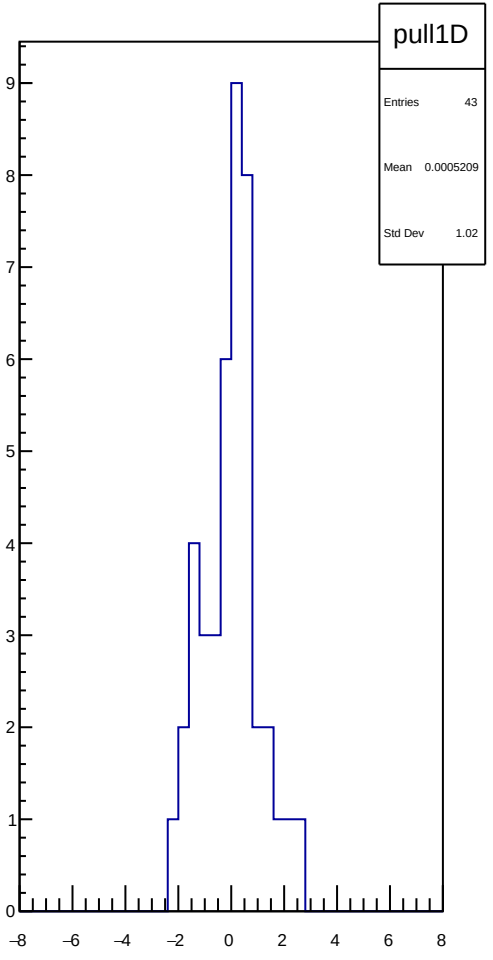

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 45.42 / 42
p0 0.07155 ± 0.03462
pull
Entries 43
Mean −56.96
Std Dev 0
pull1D
Entries 43
Mean −0.01236
Std Dev 1.028

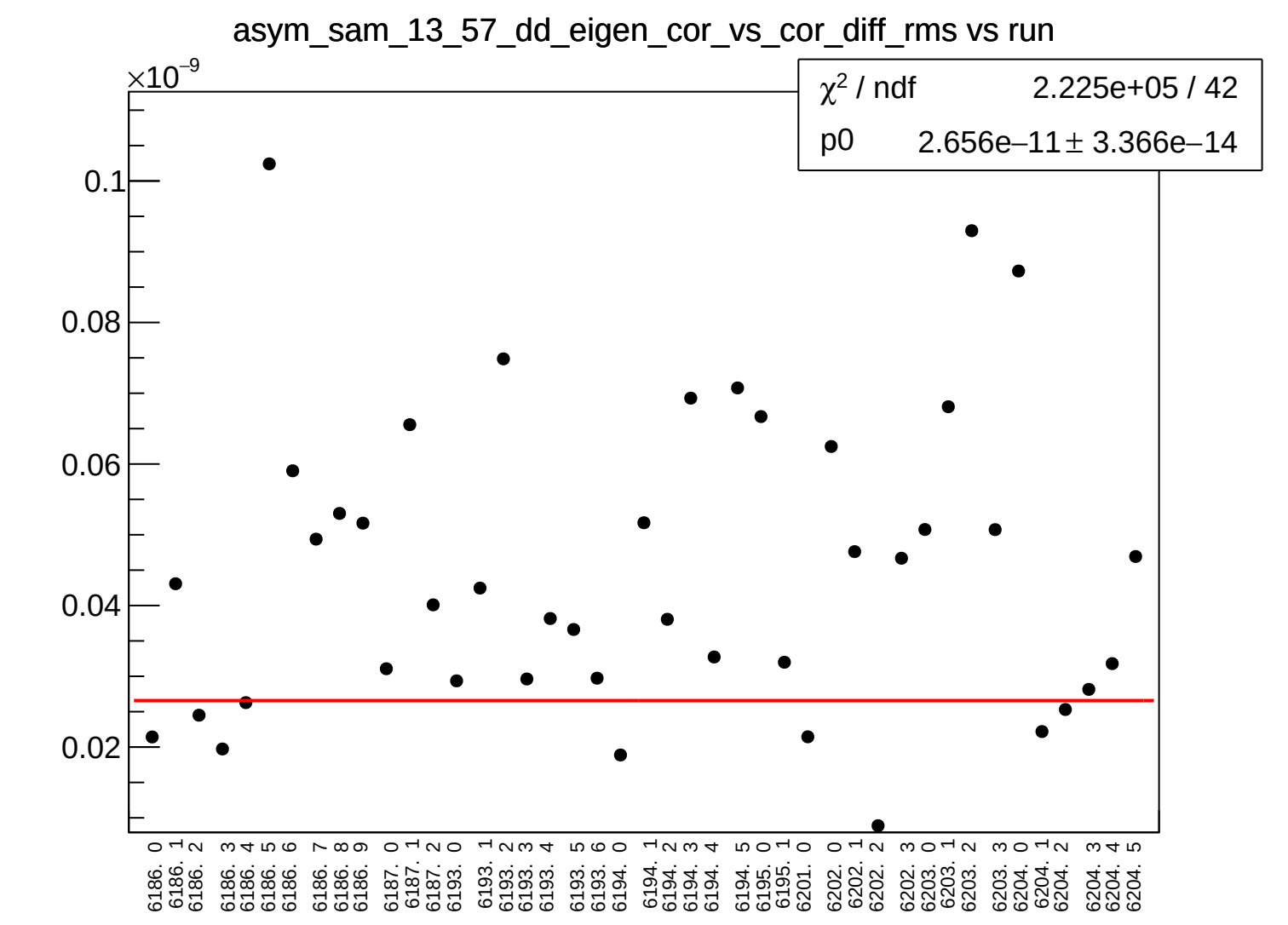

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.405e+04 / 42
p0 21.91 ± 0.02448
90
80
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

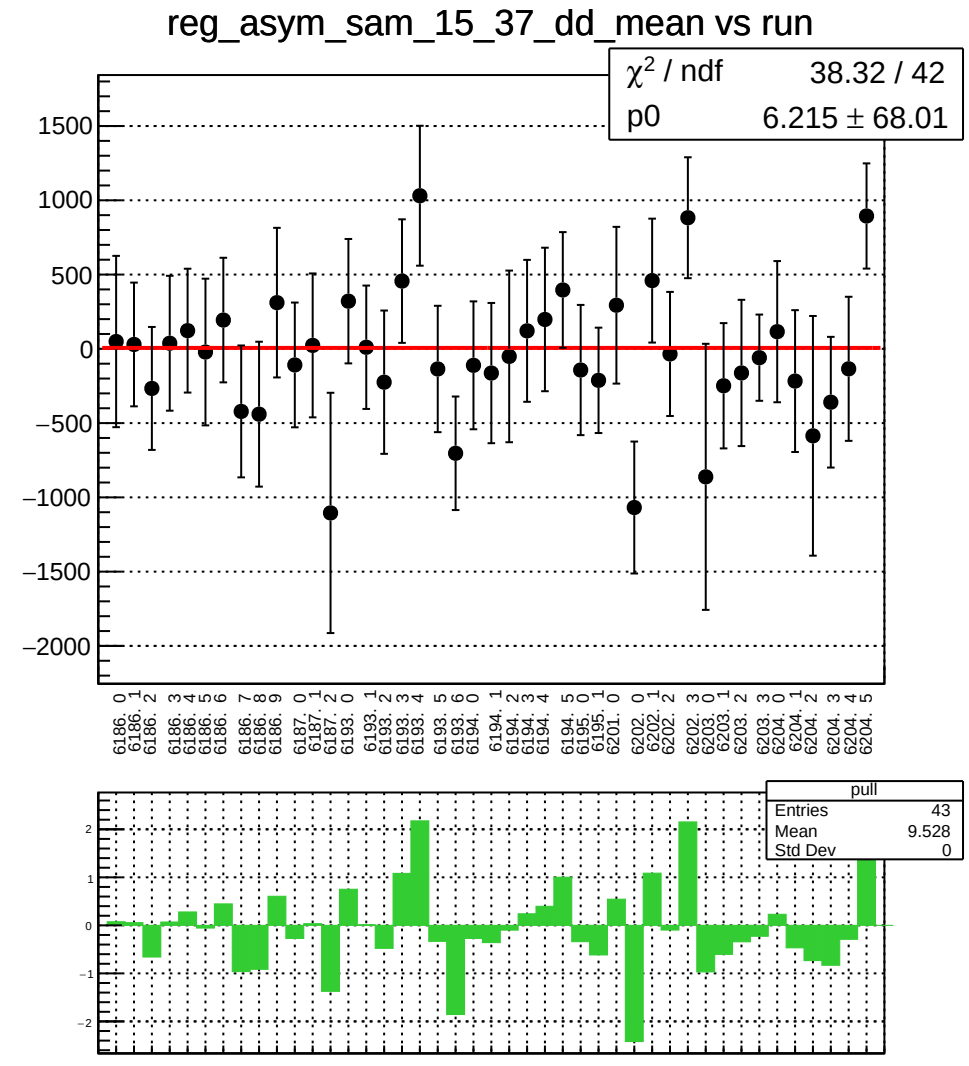

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 45.42 / 42
p0 0.07155 ± 0.03462
1
0.5
0
−0.5
−1
−1.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −56.96
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01236
Std Dev 1.028
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

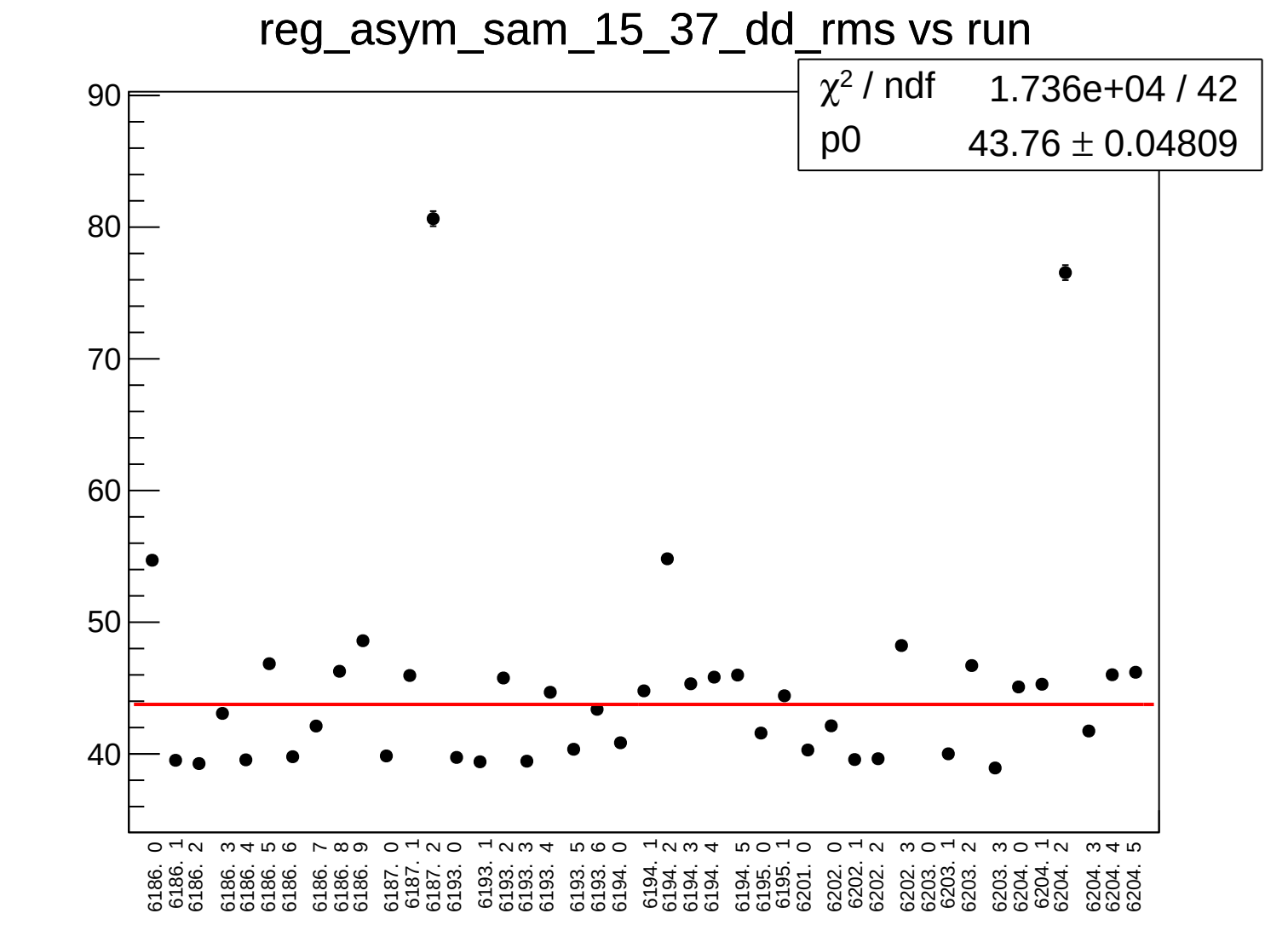

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.405e+04 / 42
p0 21.91 ± 0.02448
90
80
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

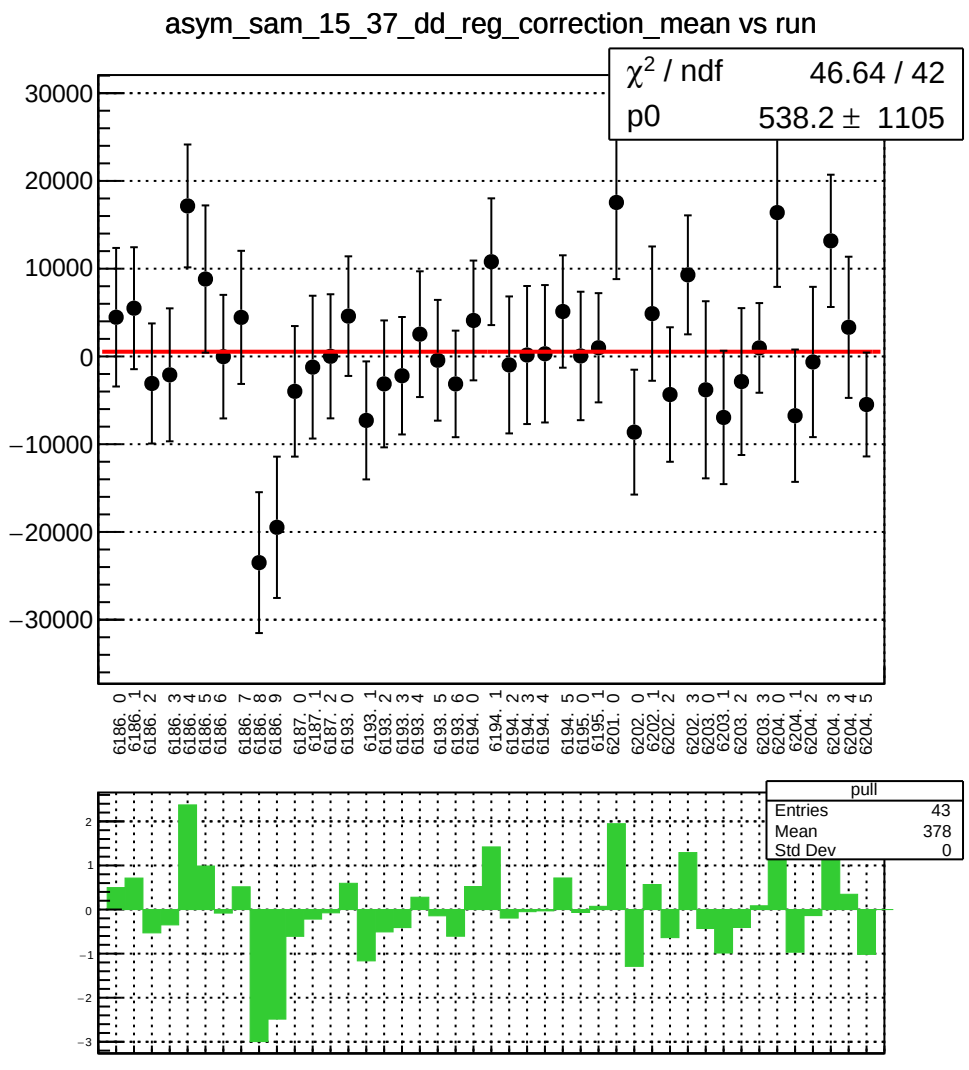

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.71 / 42
p0 6.053e−14 ± 4.76e−14
pull
Entries 43
Mean 4052
Std Dev 0

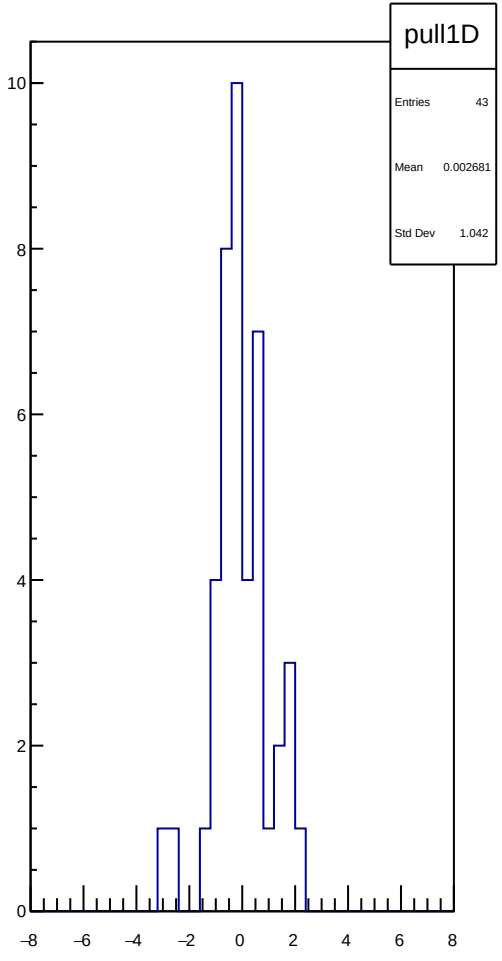

pull1D
Entries 43
Mean 0.0005209
Std Dev 1.02

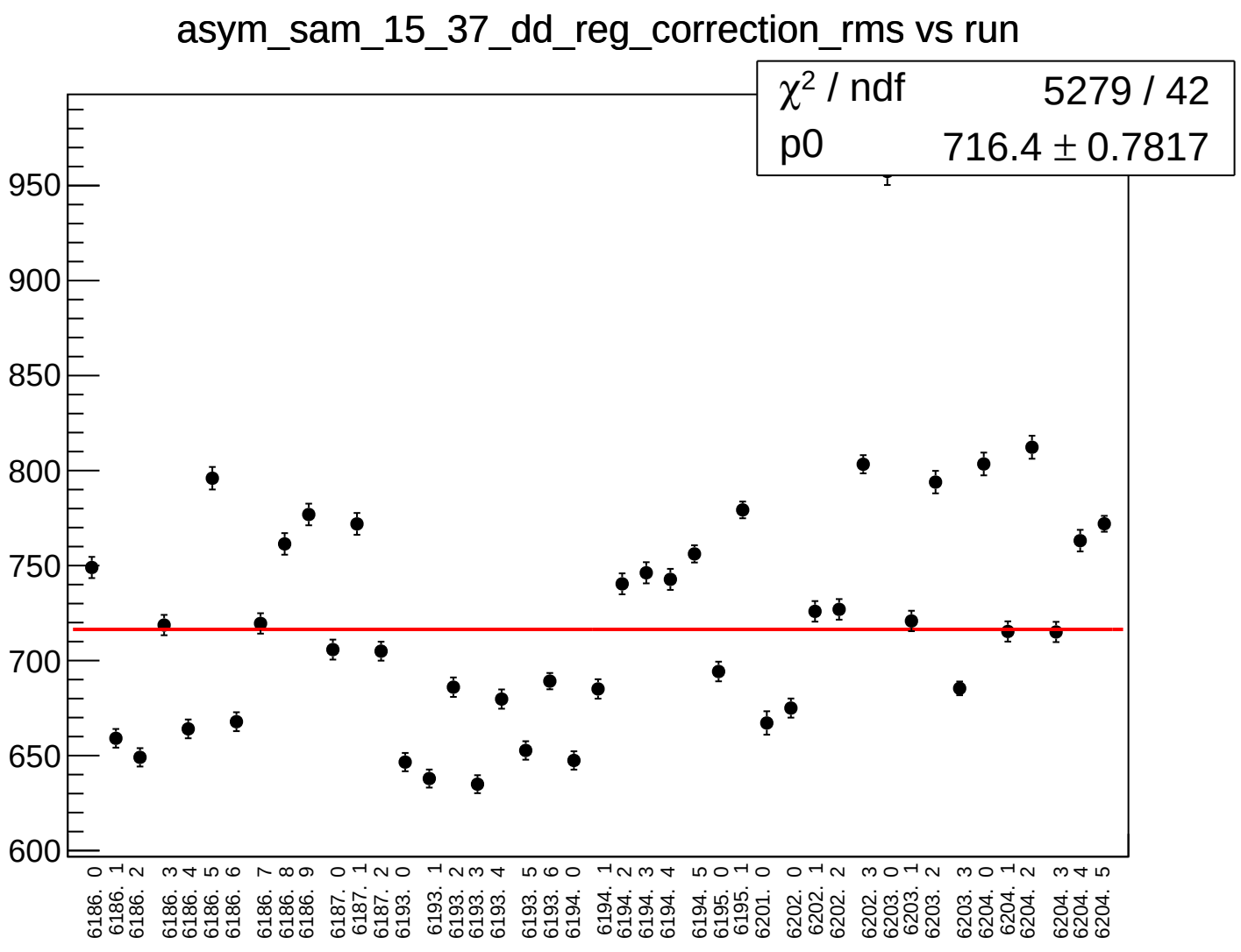

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.225e+05 / 42
p0 2.656e−11 ± 3.366e−14
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

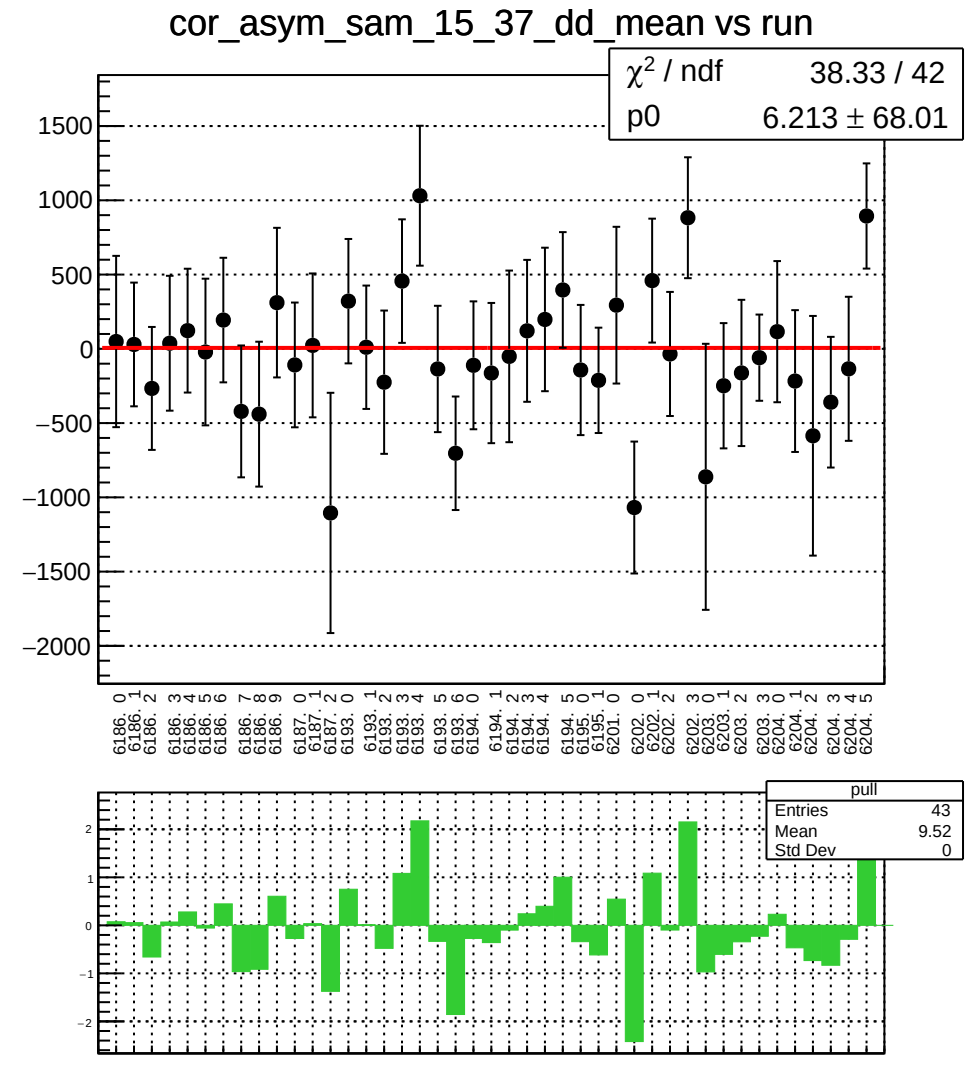

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 38.32 / 42
p0 6.215 ± 68.01
1500
1000
500
0
−500
−1000
−1500
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 9.528
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04252
Std Dev 0.9431
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

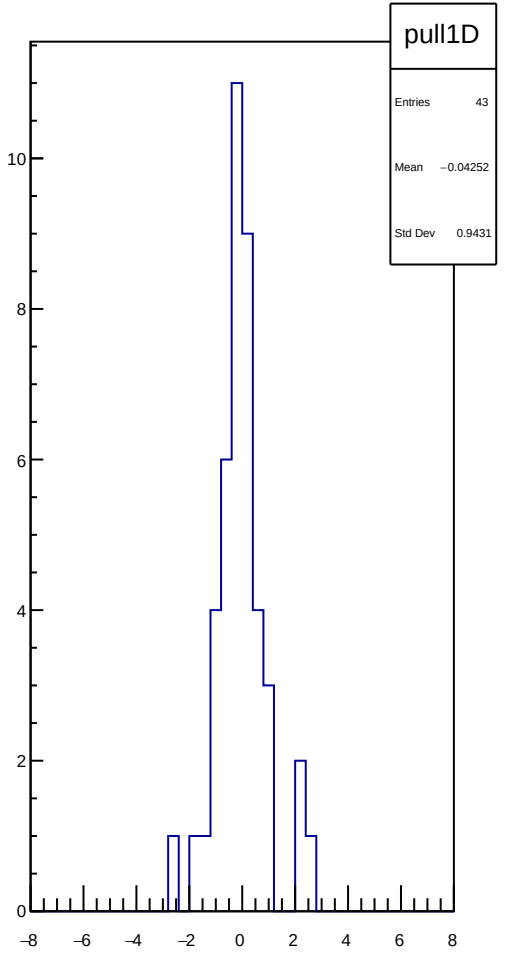

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.736e+04 / 42
p0 43.76 ± 0.04809
90
80
70
60
50
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

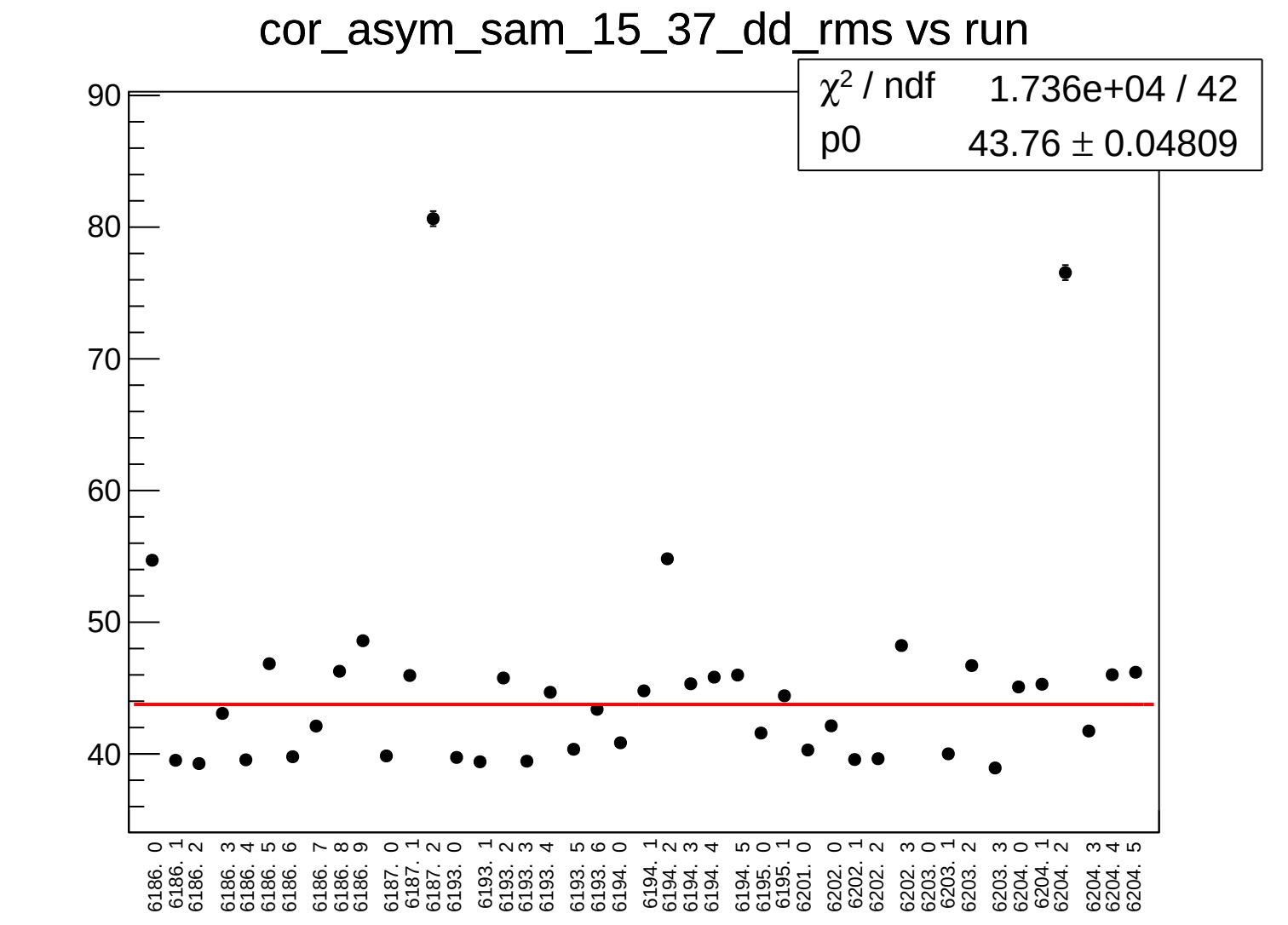

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 46.64 / 42
p0 538.2 ± 1105
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 378
Std Dev 0
2
1
0
−1
−2
−3

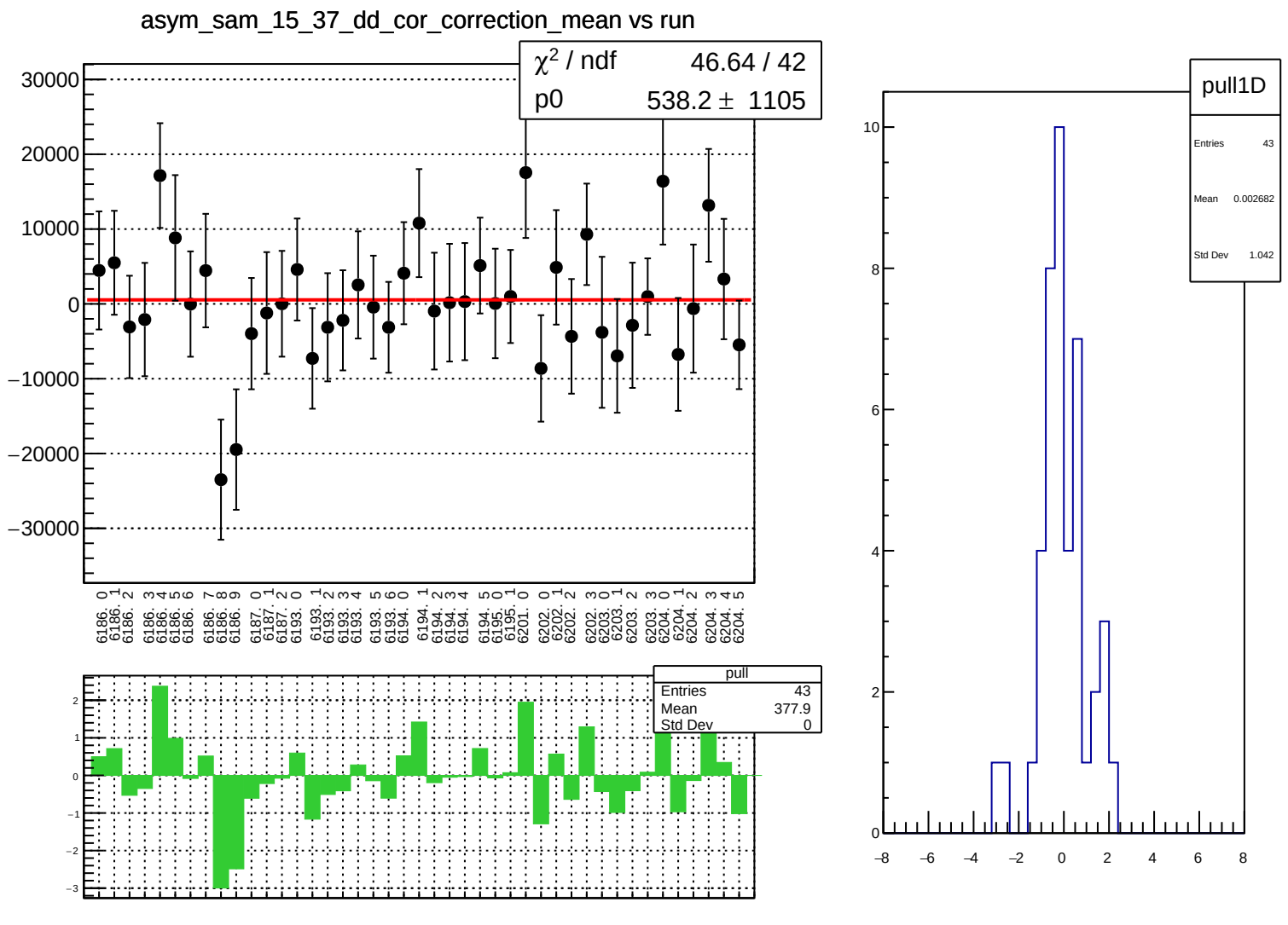

pull1D
Entries 43
Mean 0.002681
Std Dev 1.042
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

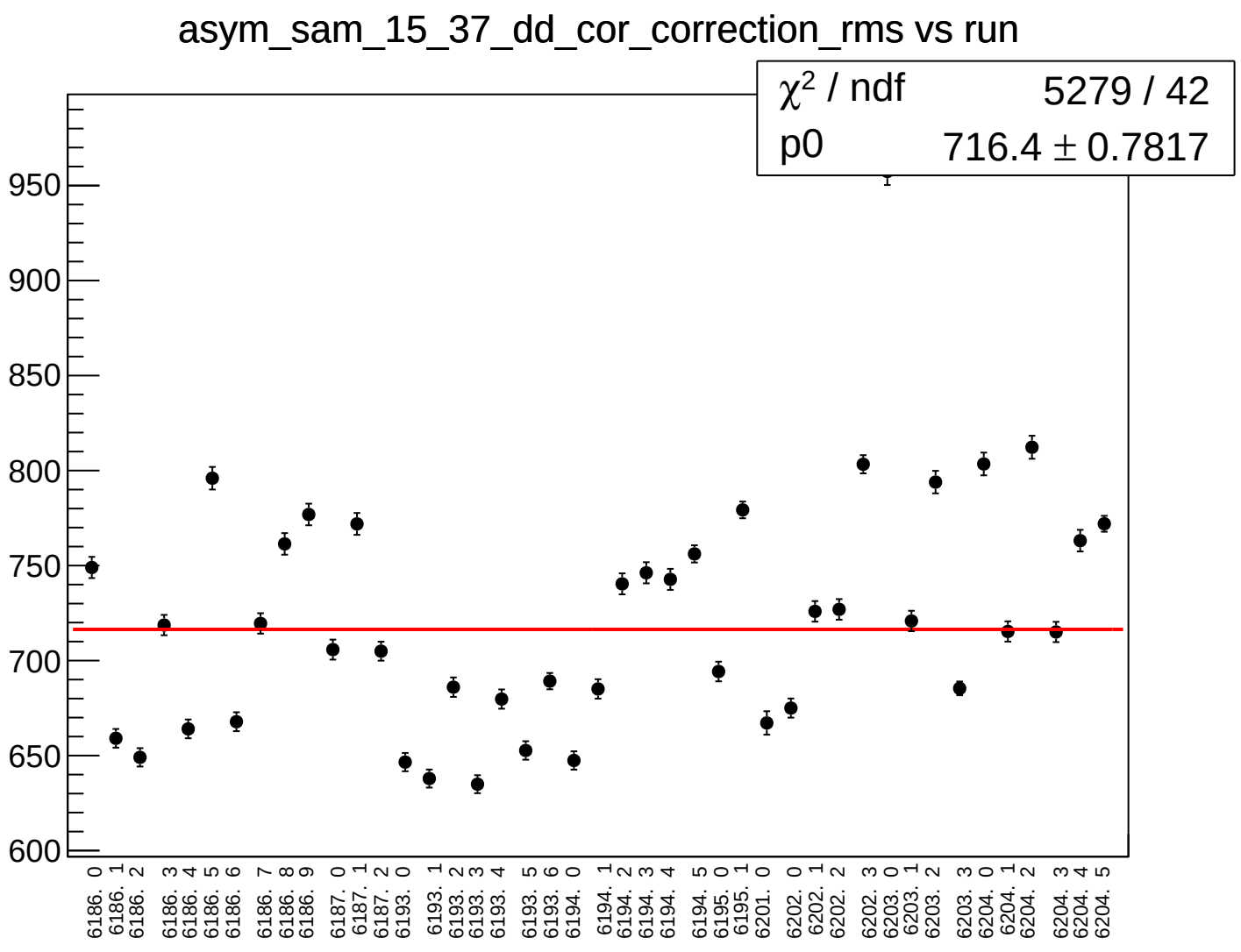

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 5279 / 42
p0 716.4 ± 0.7817
950
900
850
800
750
700
650
600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

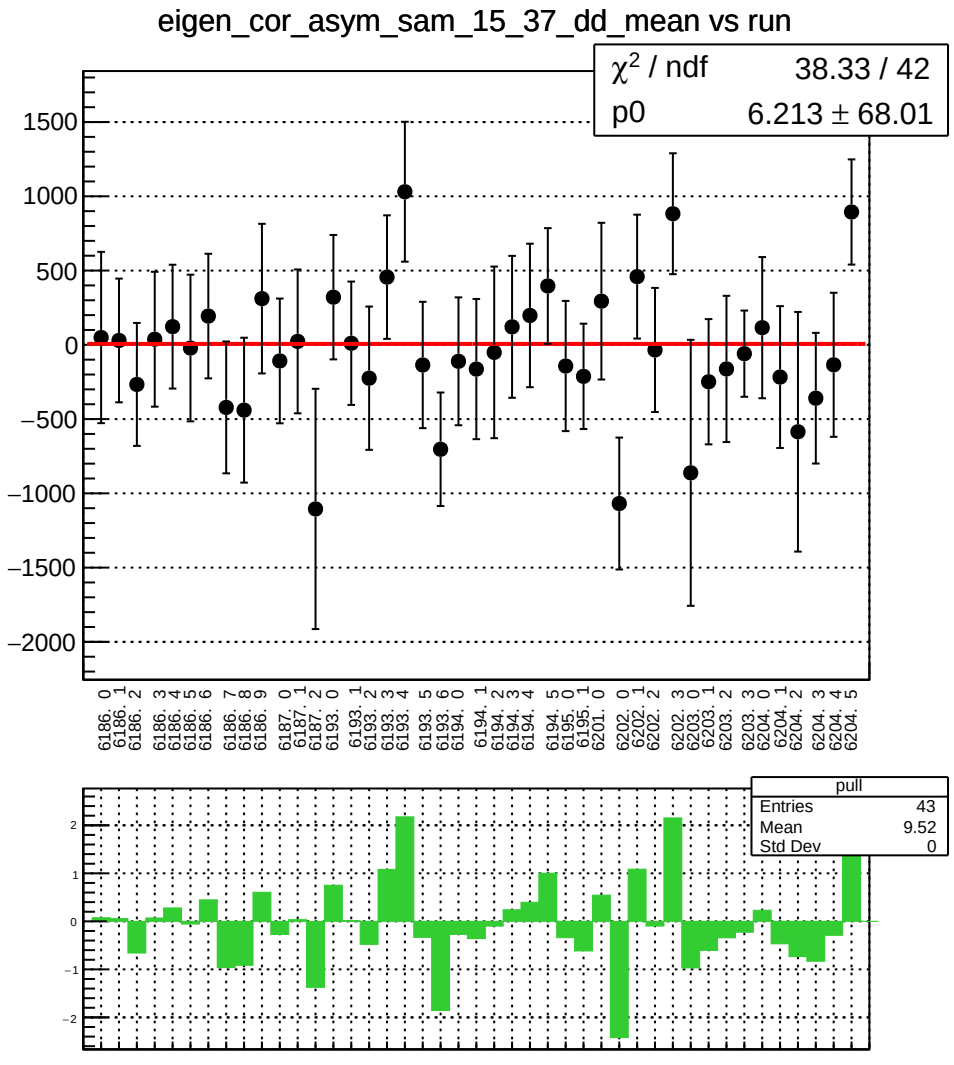

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 38.33 / 42
p0 6.213 ± 68.01
1500
1000
500
0
−500
−1000
−1500
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 9.52
Std Dev 0
2
1
0
−1
−2

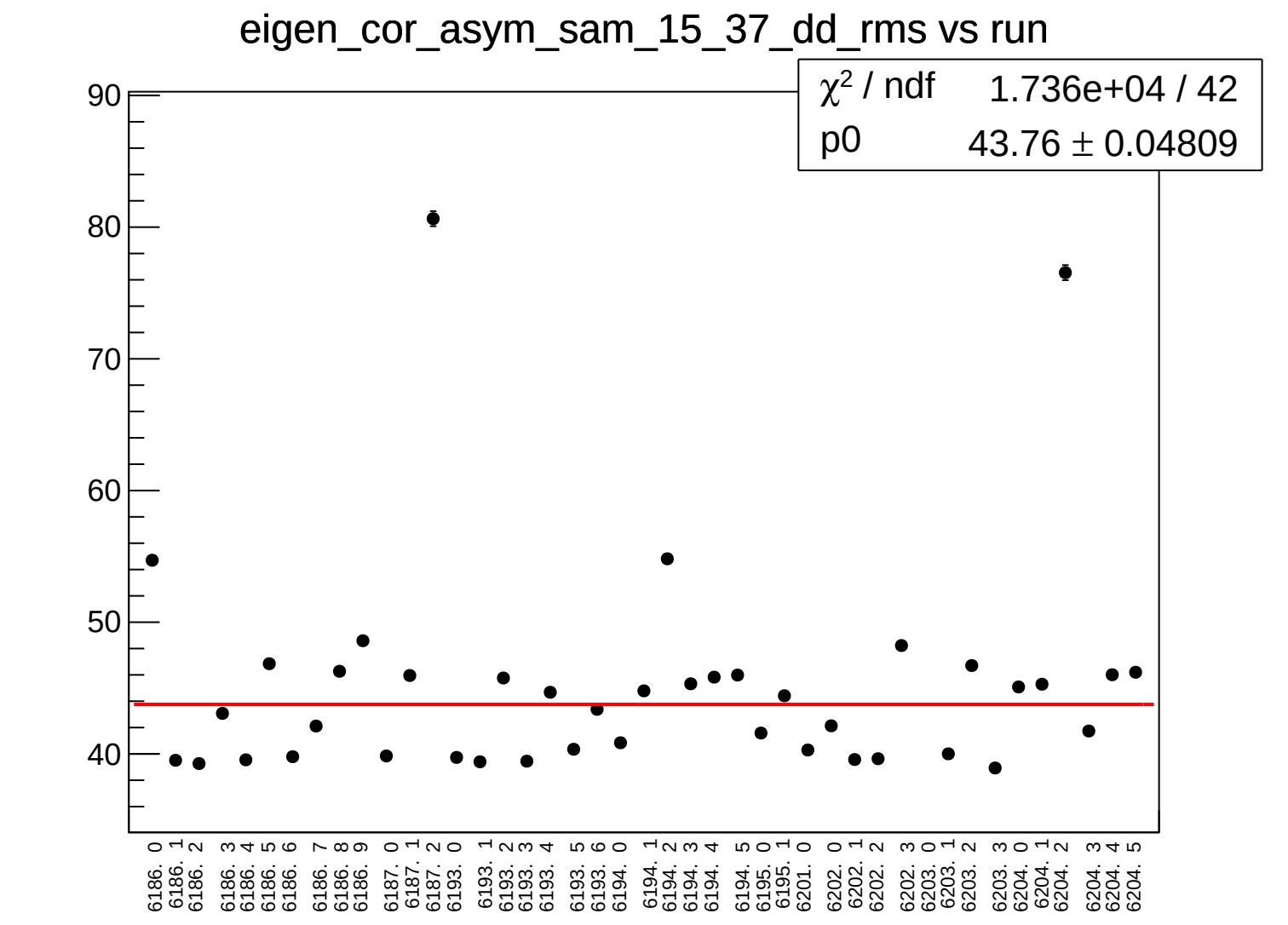

pull1D
Entries 43
Mean −0.04252
Std Dev 0.9431
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

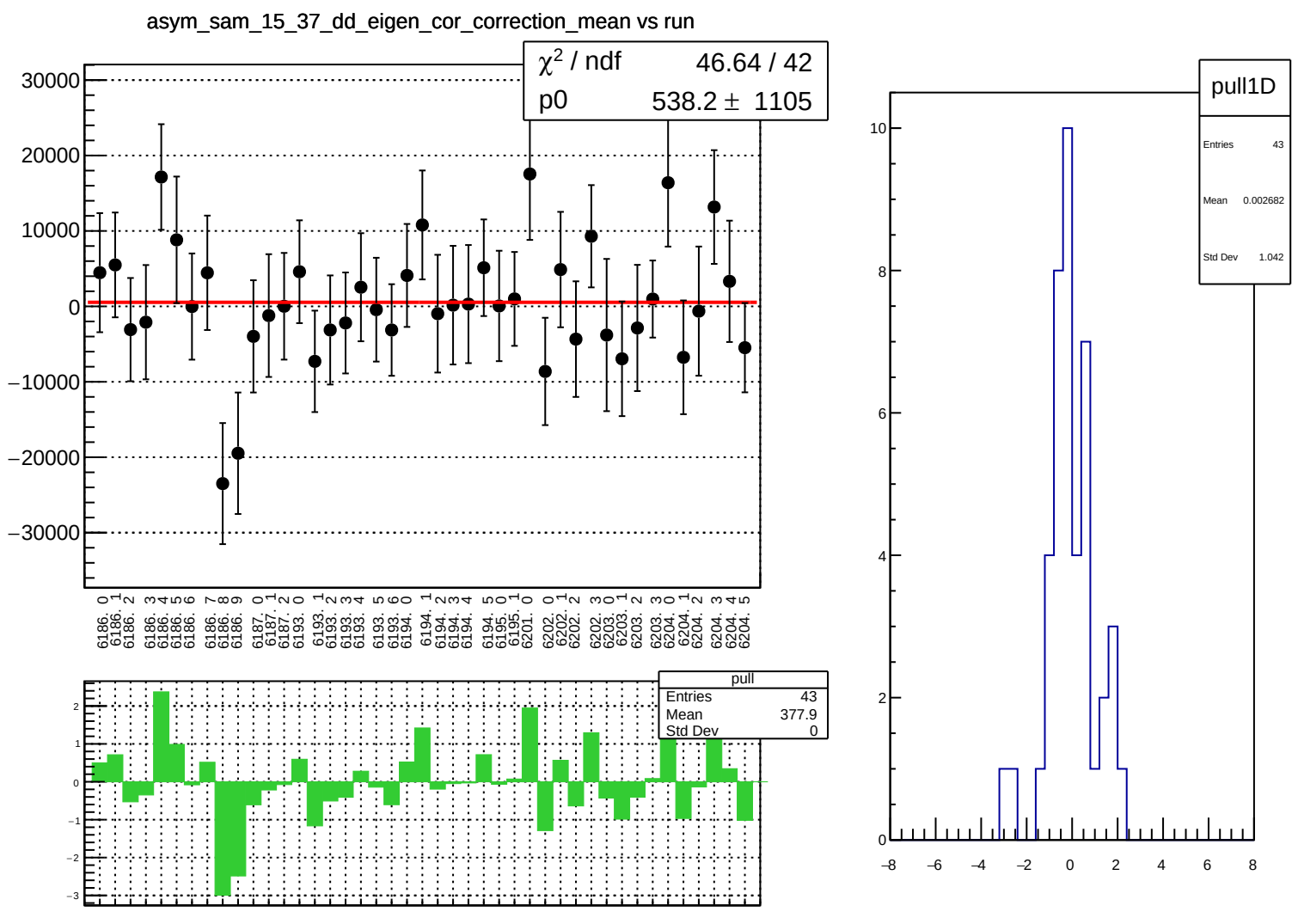

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.736e+04 / 42
p0 43.76 ± 0.04809
90
80
70
60
50
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

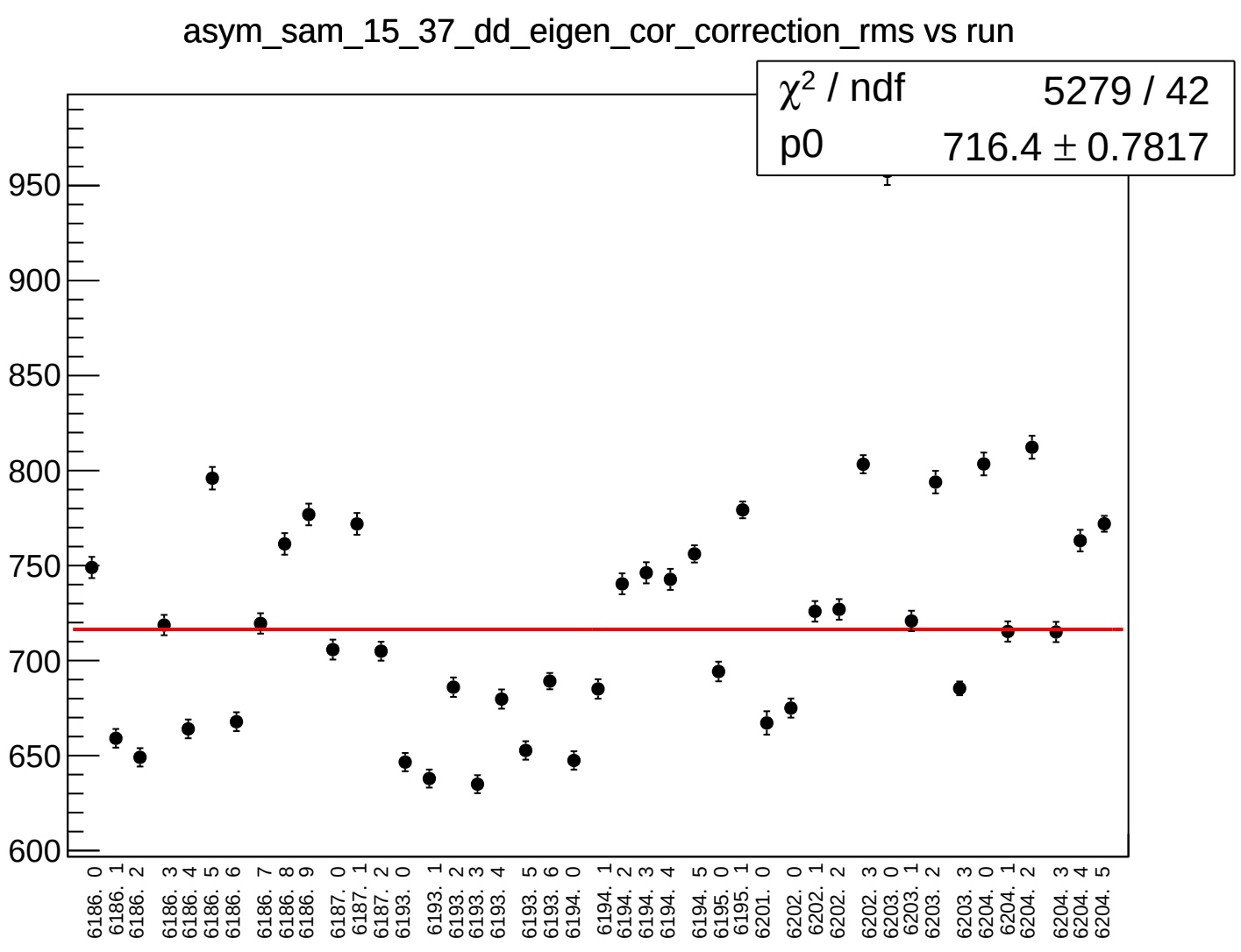

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 46.64 / 42
p0 538.2 ± 1105
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 377.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.002682
Std Dev 1.042
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

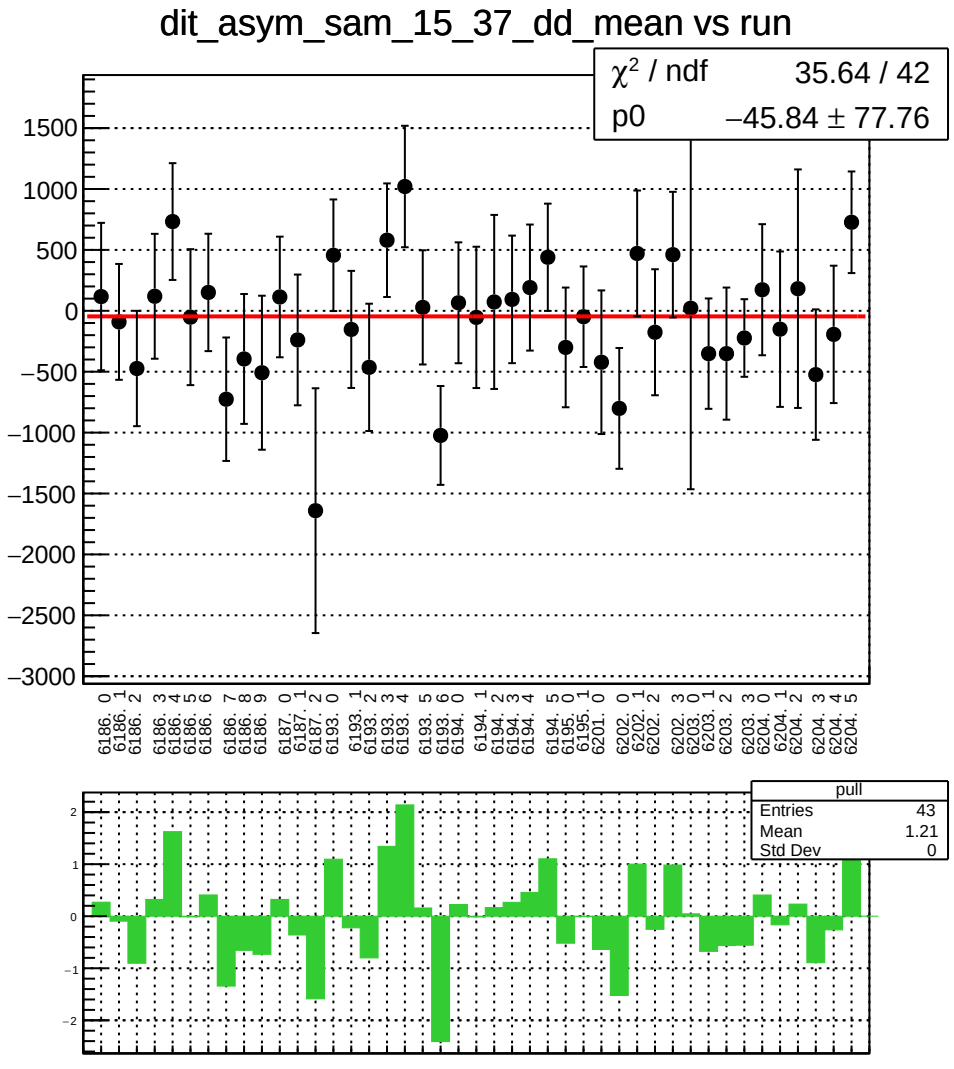

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 5279 / 42
p0 716.4 ± 0.7817
950
900
850
800
750
700
650
600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

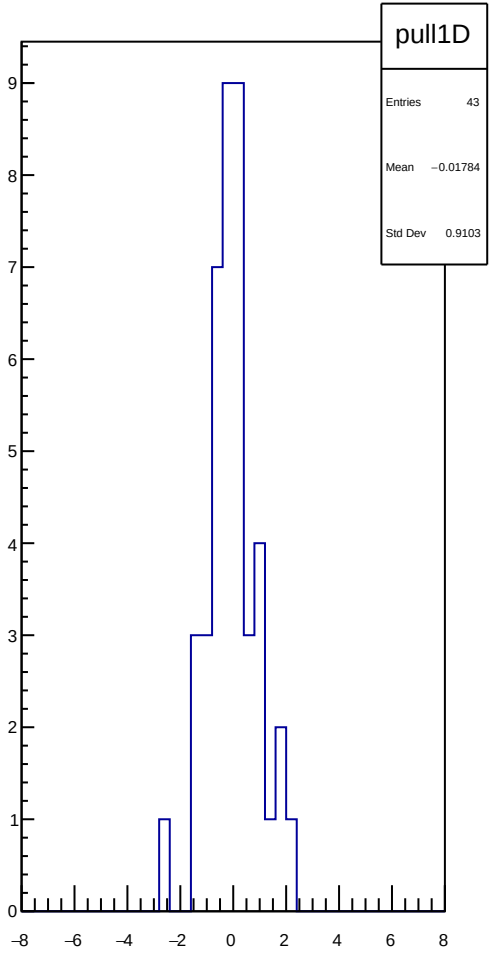

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 38.33 / 42
p0 6.213 ± 68.01
1500
1000
500
0
−500
−1000
−1500
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 9.52
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04252
Std Dev 0.9431
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

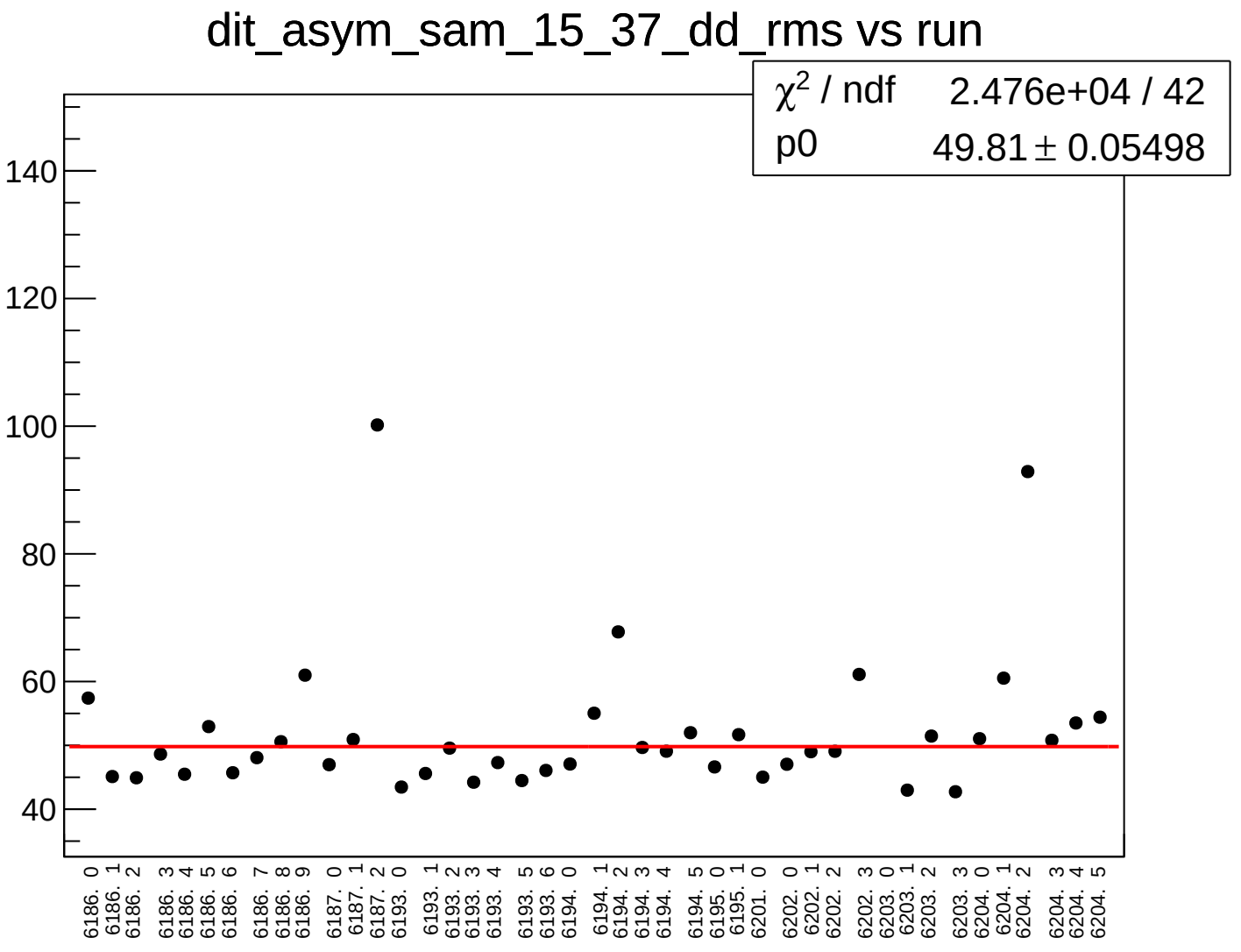

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.736e+04 / 42
p0 43.76 ± 0.04809
90
80
70
60
50
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

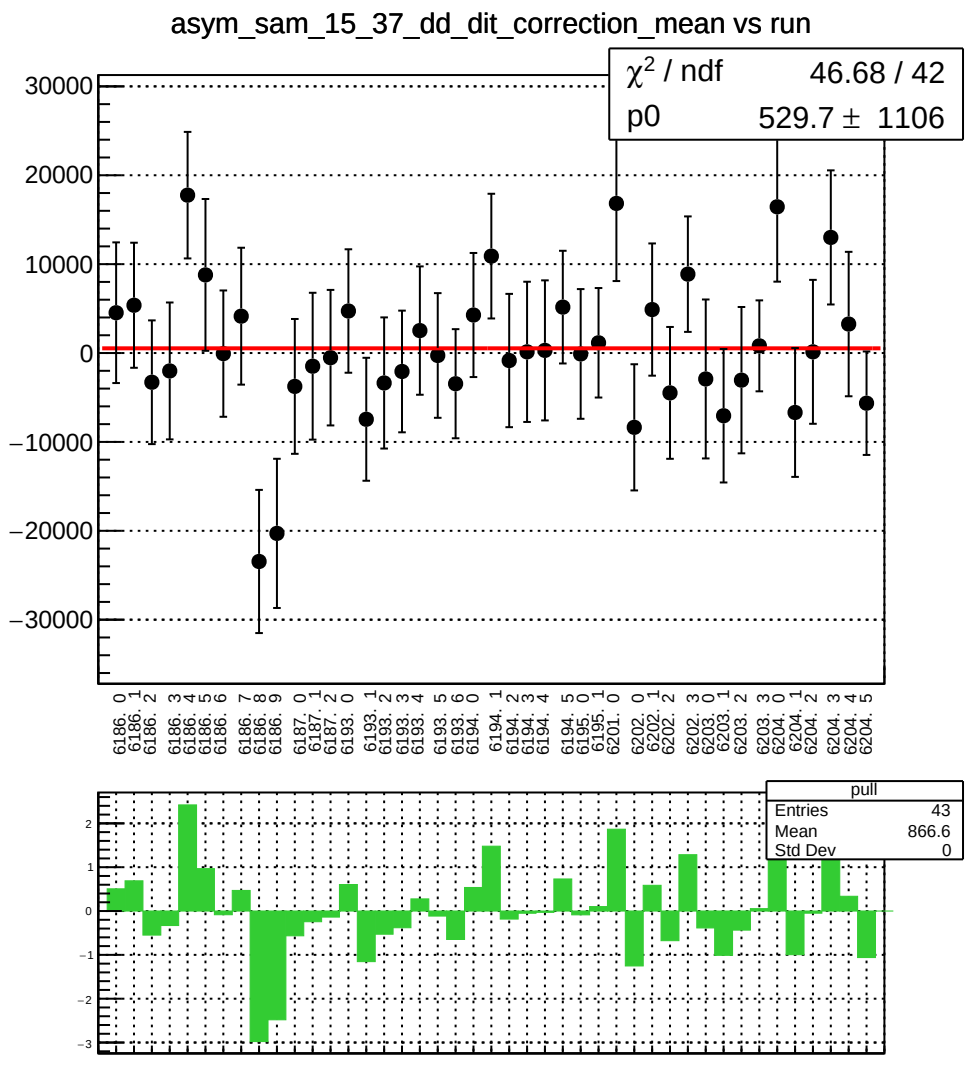

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 46.64 / 42
p0 538.2 ± 1105
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 377.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.002682
Std Dev 1.042
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

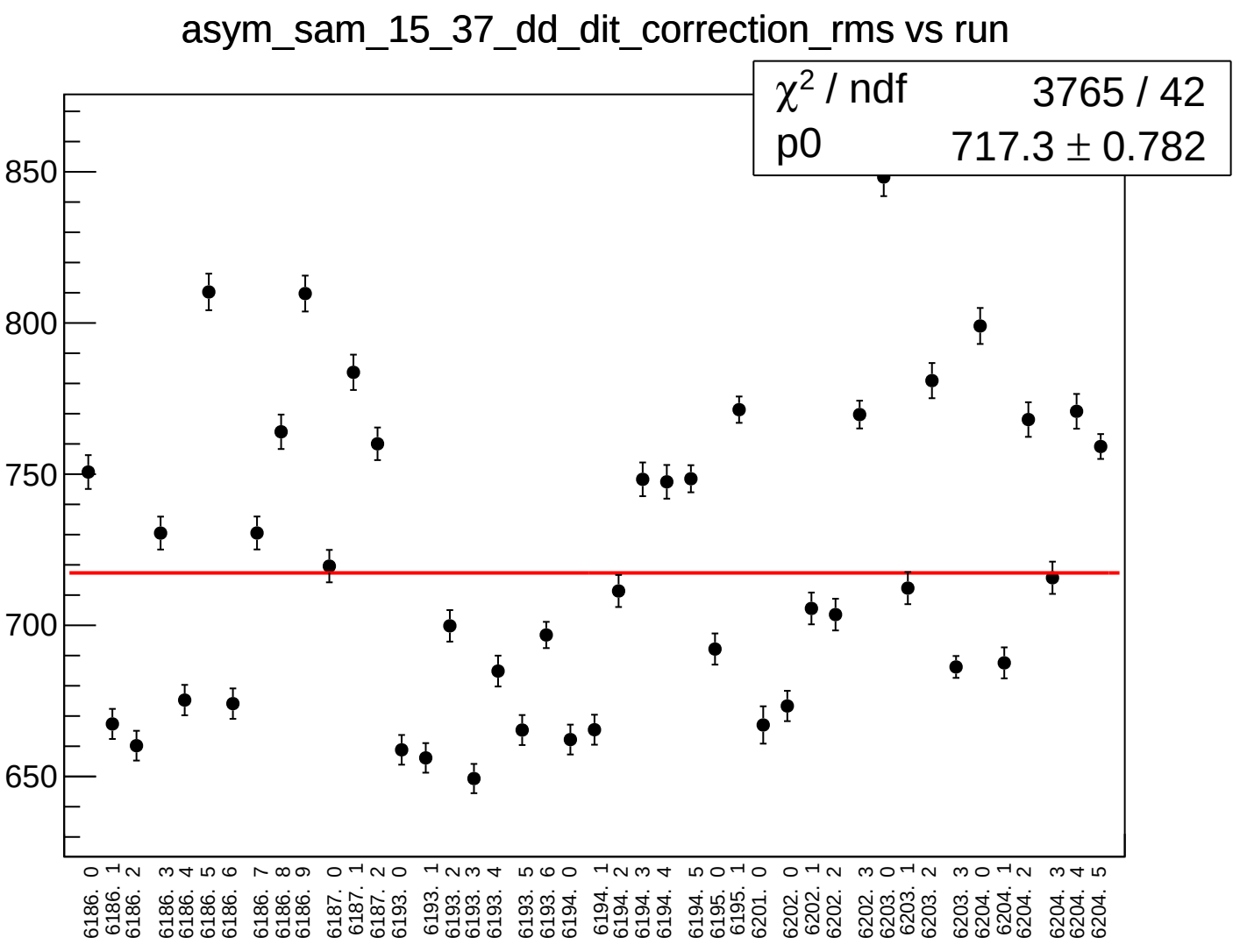

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 5279 / 42
p0 716.4 ± 0.7817
950
900
850
800
750
700
650
600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

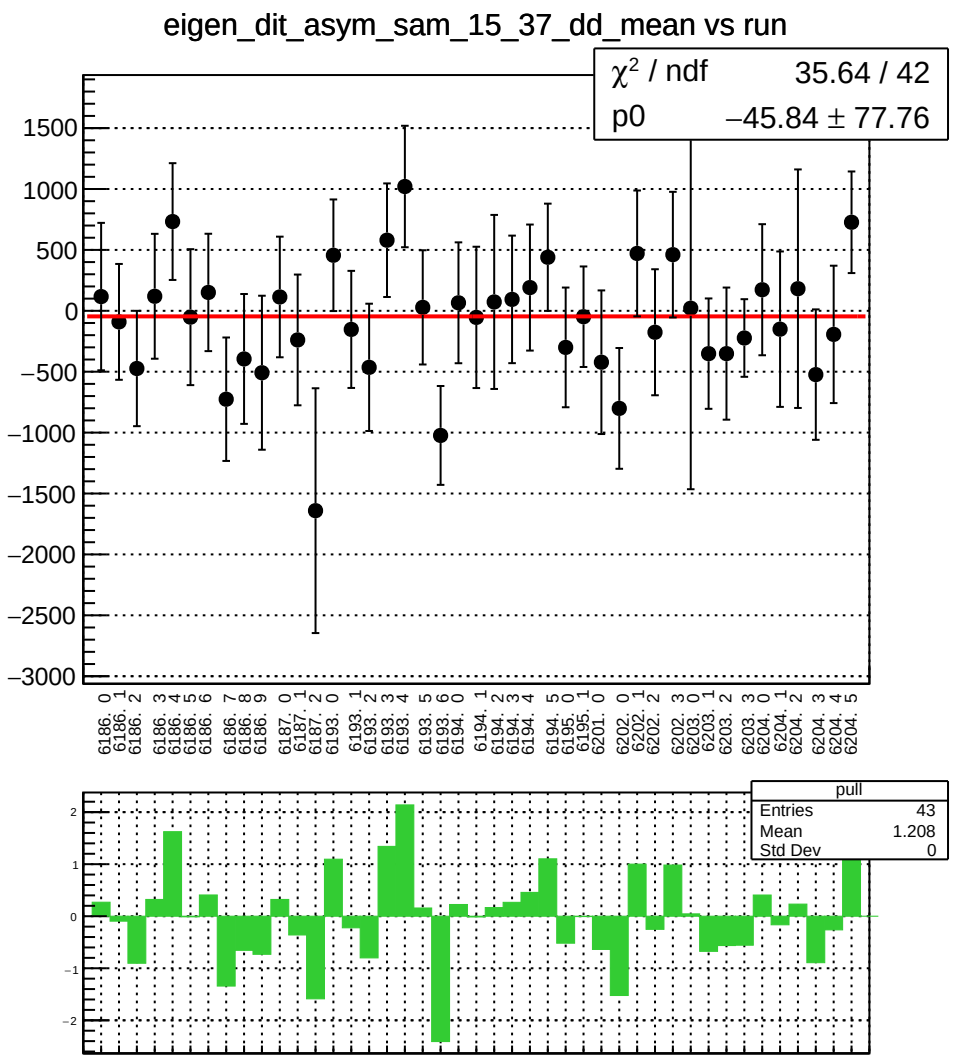

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 35.64 / 42
p0 −45.84 ± 77.76
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1.21
Std Dev 0
2
1
0
−1
−2

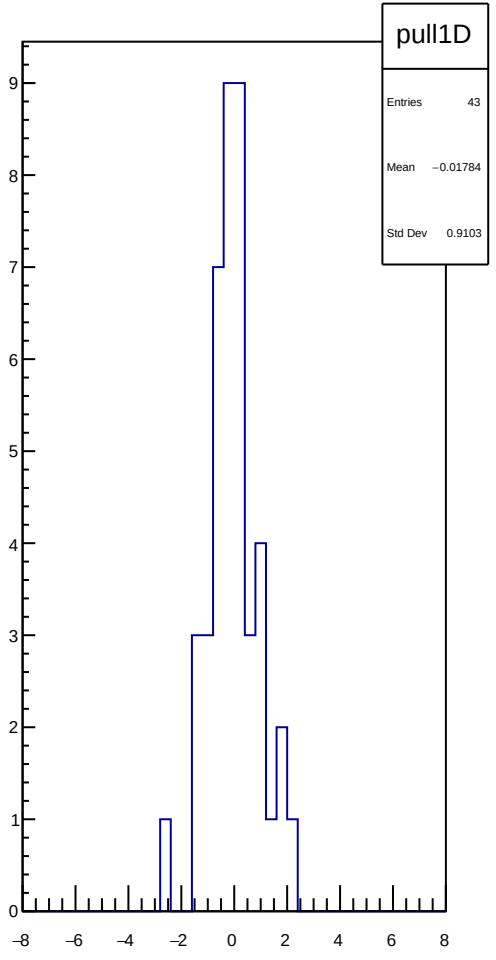

pull1D
Entries 43
Mean −0.01784
Std Dev 0.9103
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

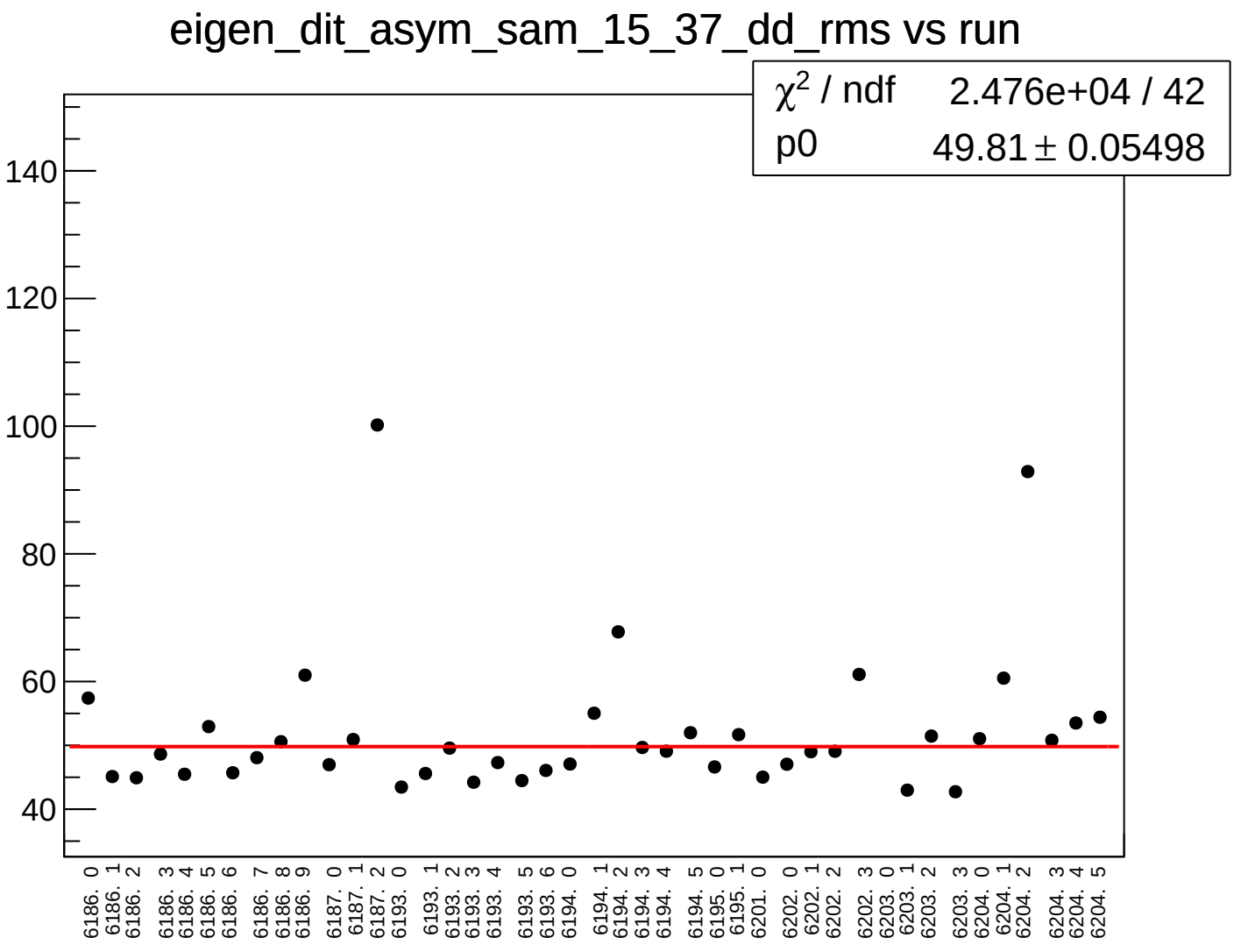

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.476e+04 / 42
p0 49.81 ± 0.05498
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 46.68 / 42
p0 529.7 ± 1106
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 866.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.001112
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 3765 / 42
p0 717.3 ± 0.782
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 35.64 / 42
p0 −45.84 ± 77.76
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1.208
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.01784
Std Dev 0.9103
9
8
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 2.476e+04 / 42
p0 49.81 ± 0.05498
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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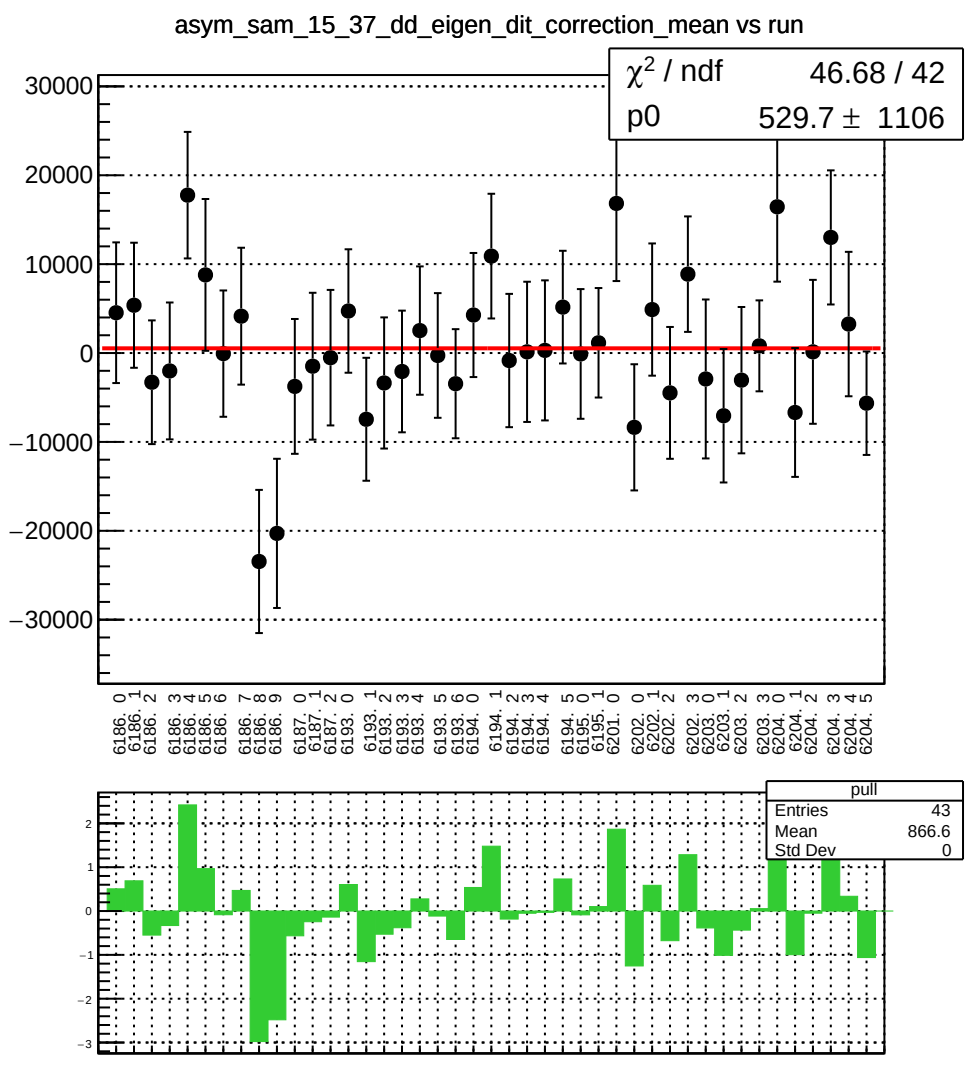
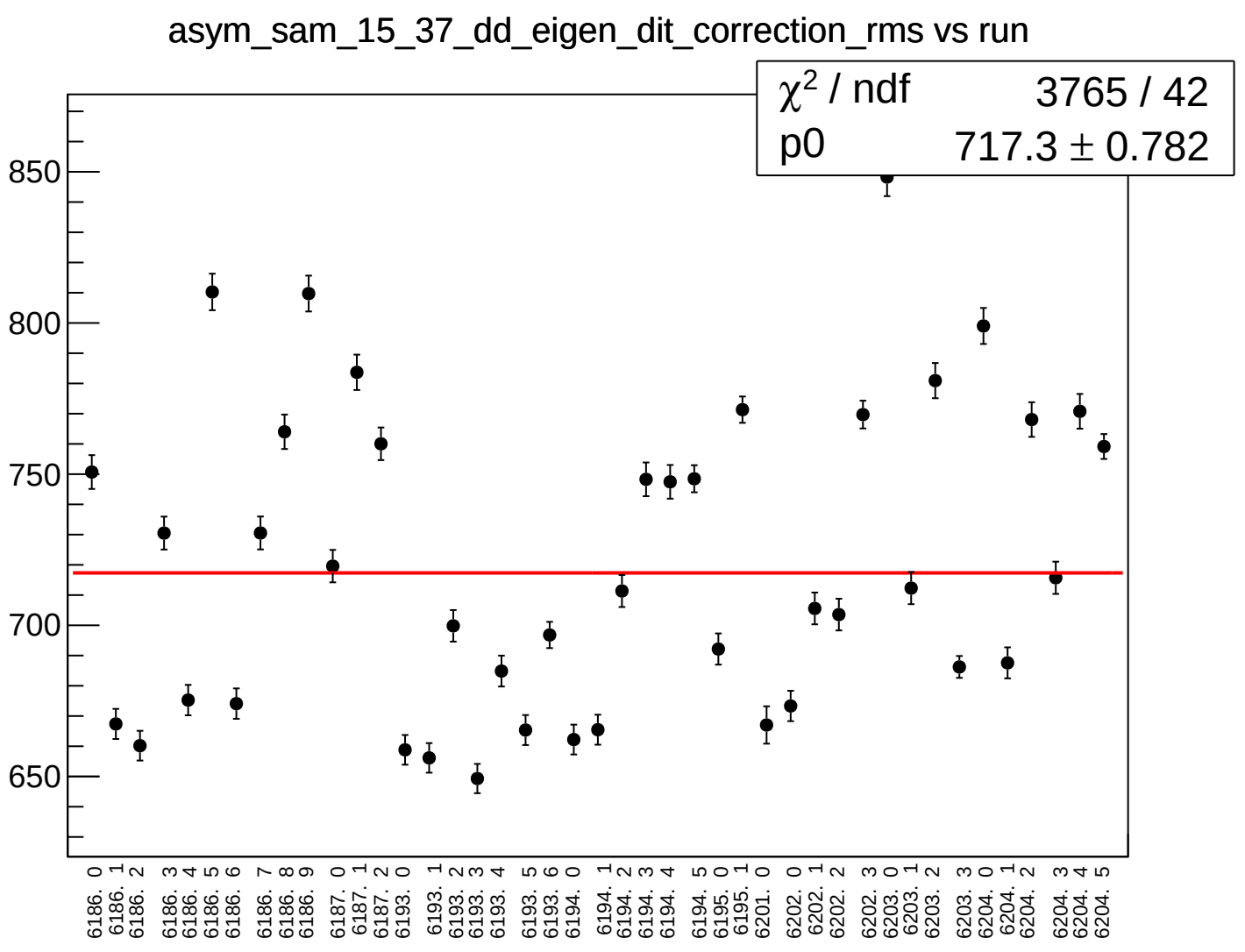
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 46.68 / 42
p0 529.7 ± 1106
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 866.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.001112
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3765 / 42
p0 717.3 ± 0.782
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
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6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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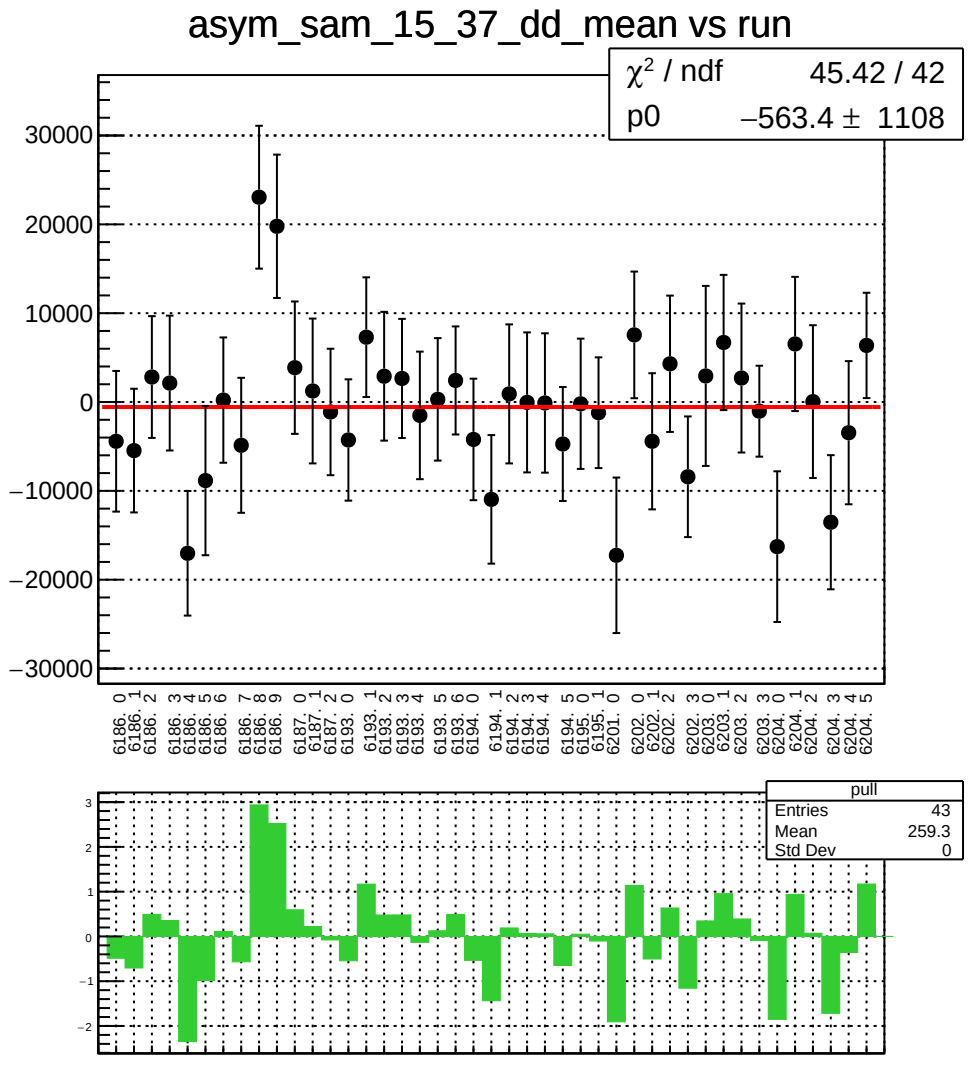
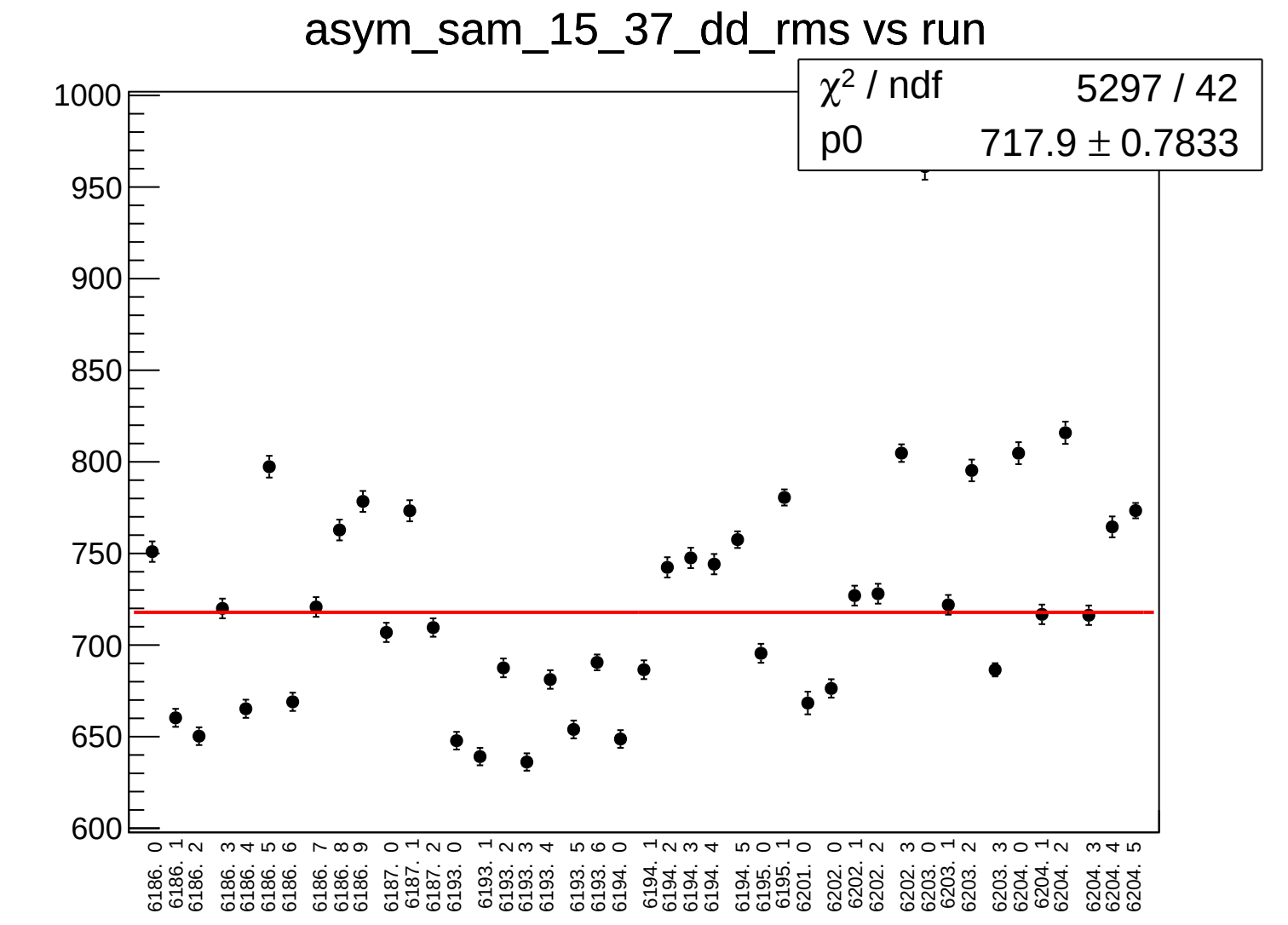
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_15_37_dd_mean vs run
χ² / ndf 45.42 / 42
p0 −563.4 ± 1108
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 259.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.00391
Std Dev 1.028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_rms vs run
χ² / ndf 5297 / 42
p0 717.9 ± 0.7833
1000
950
900
850
800
750
700
650
600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
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6203. 1
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6204. 1
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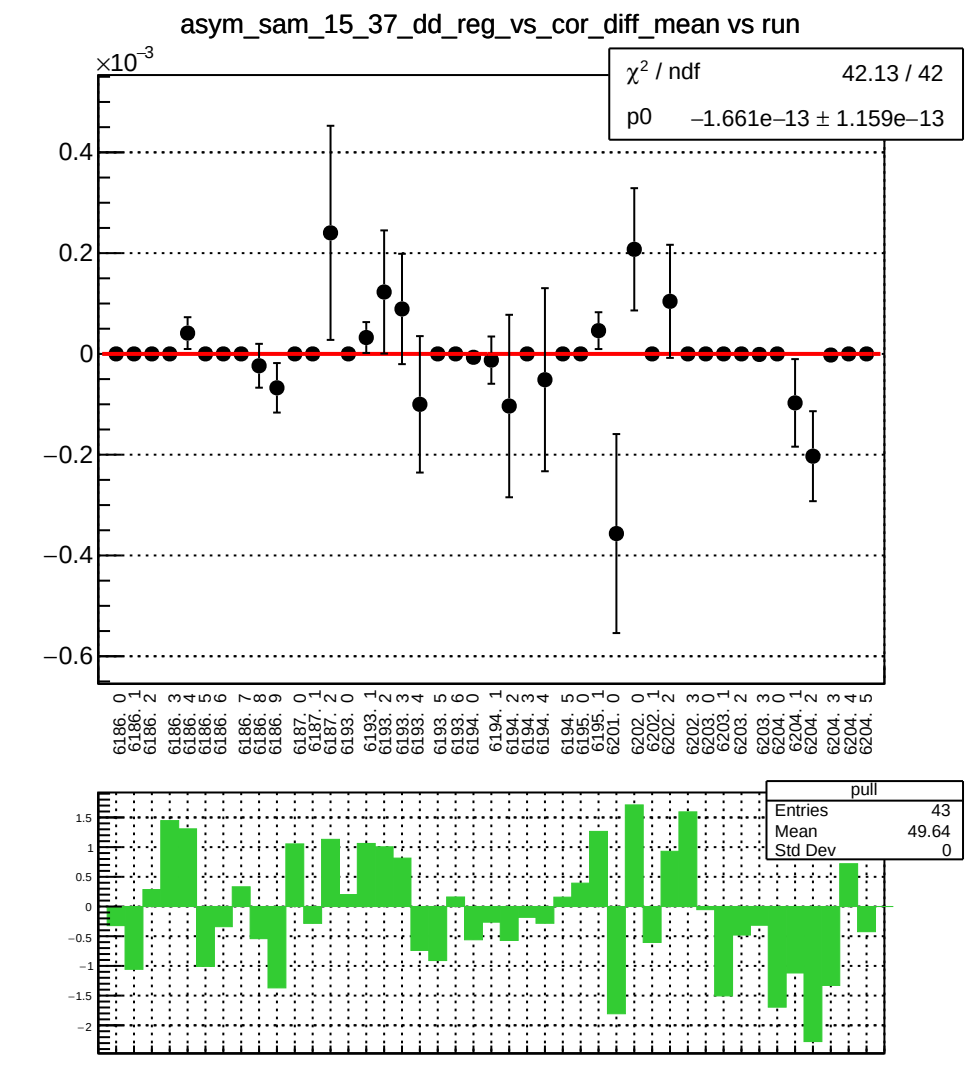
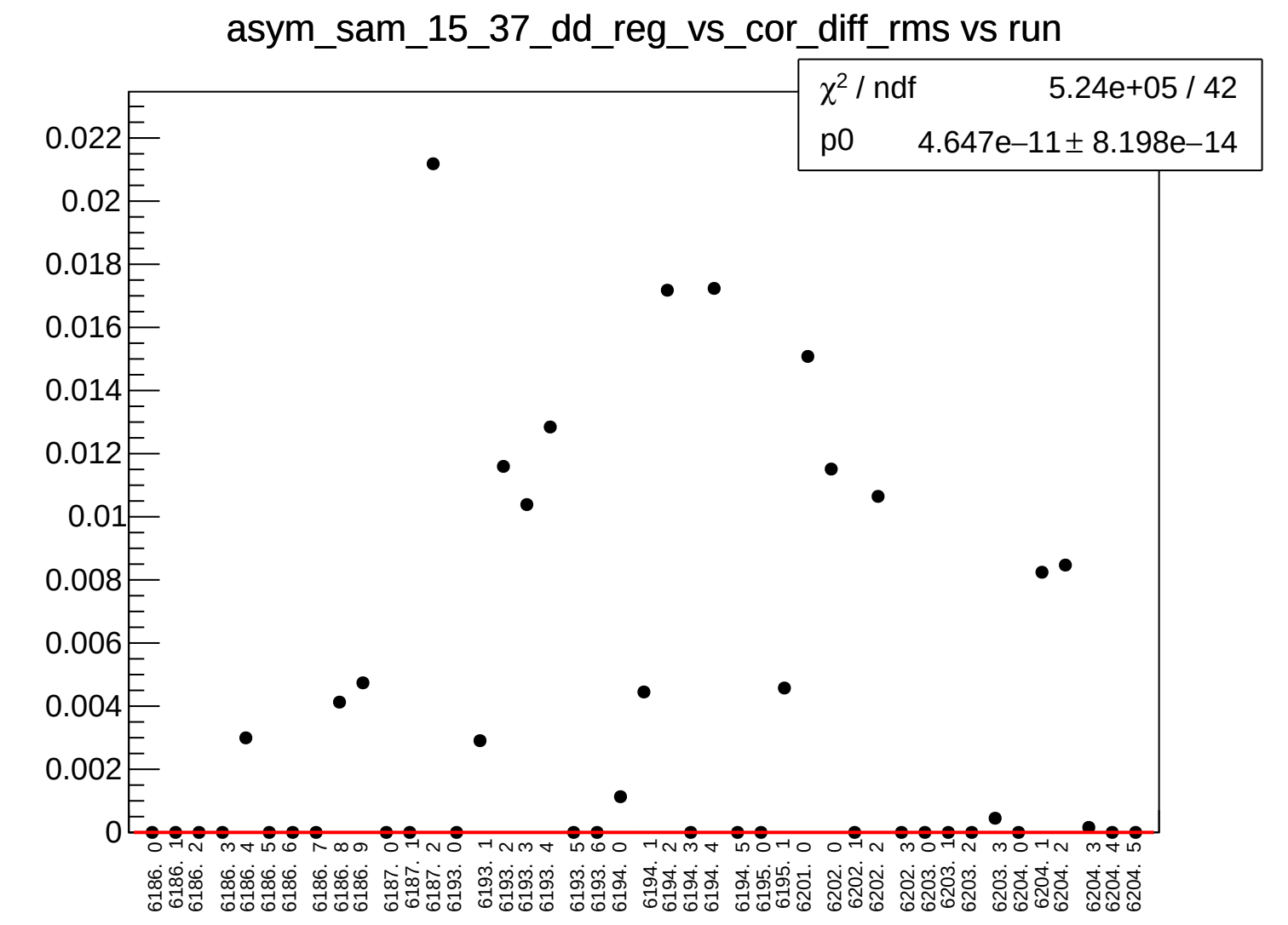
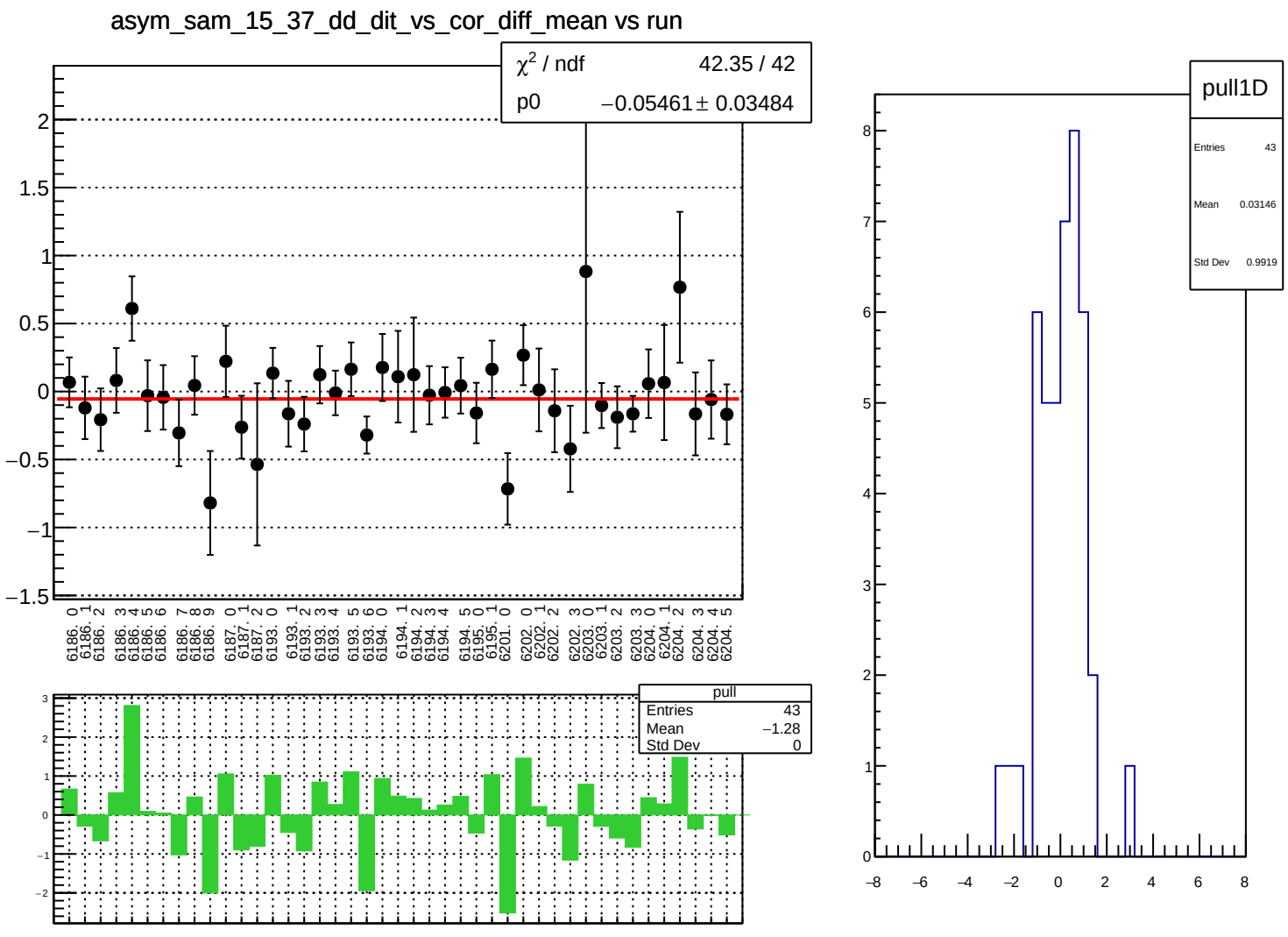
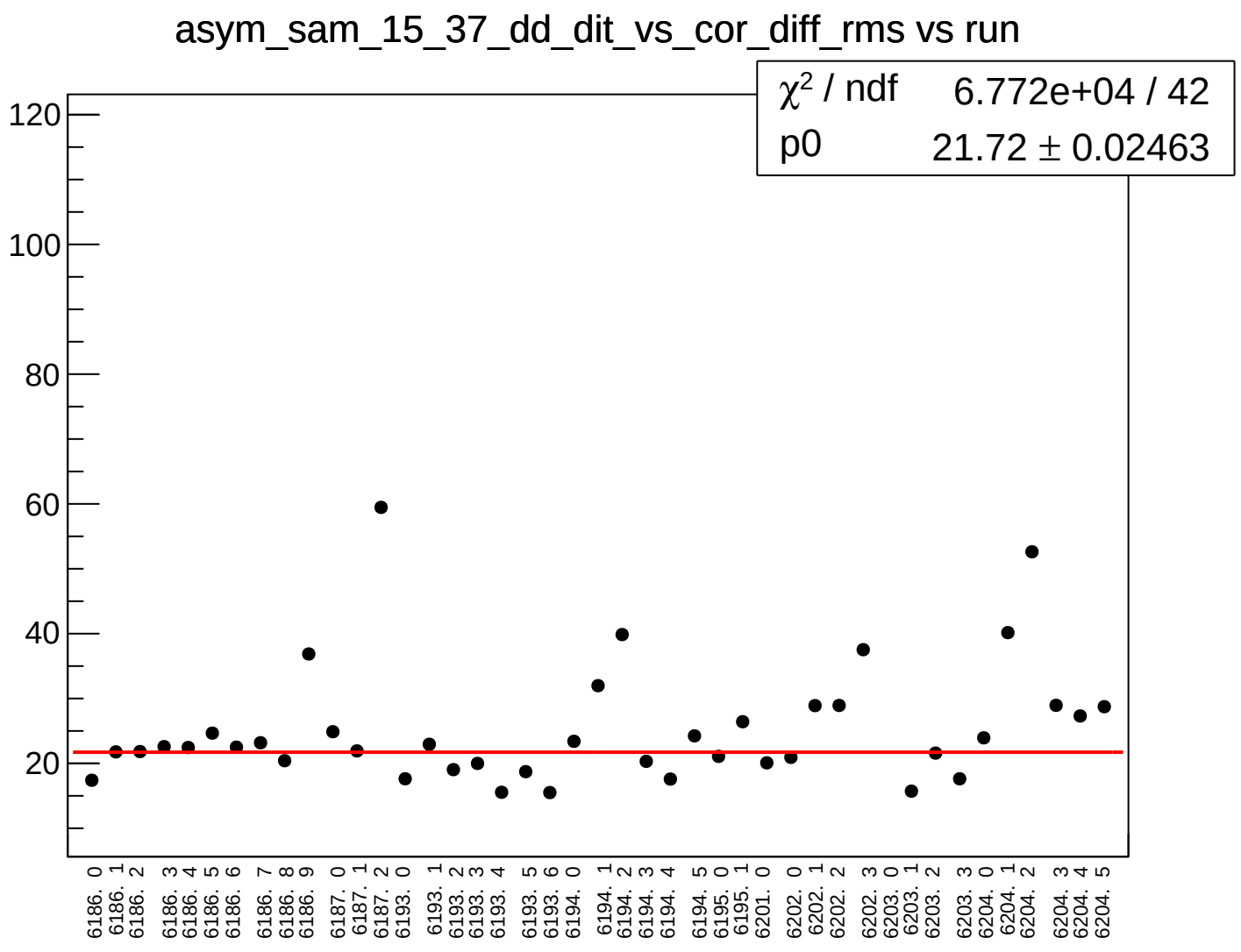
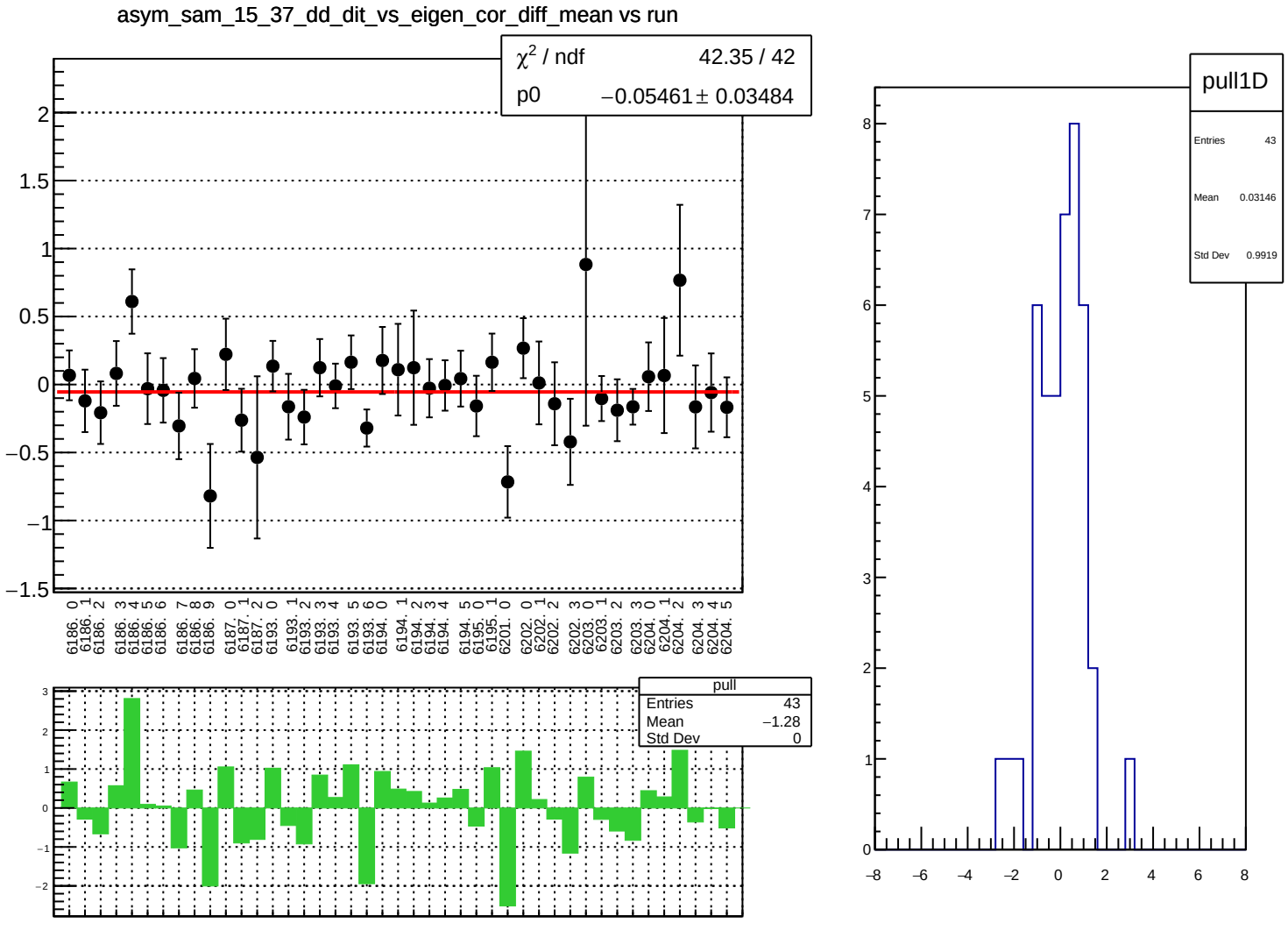
6204. 3
6204. 4
6204. 5

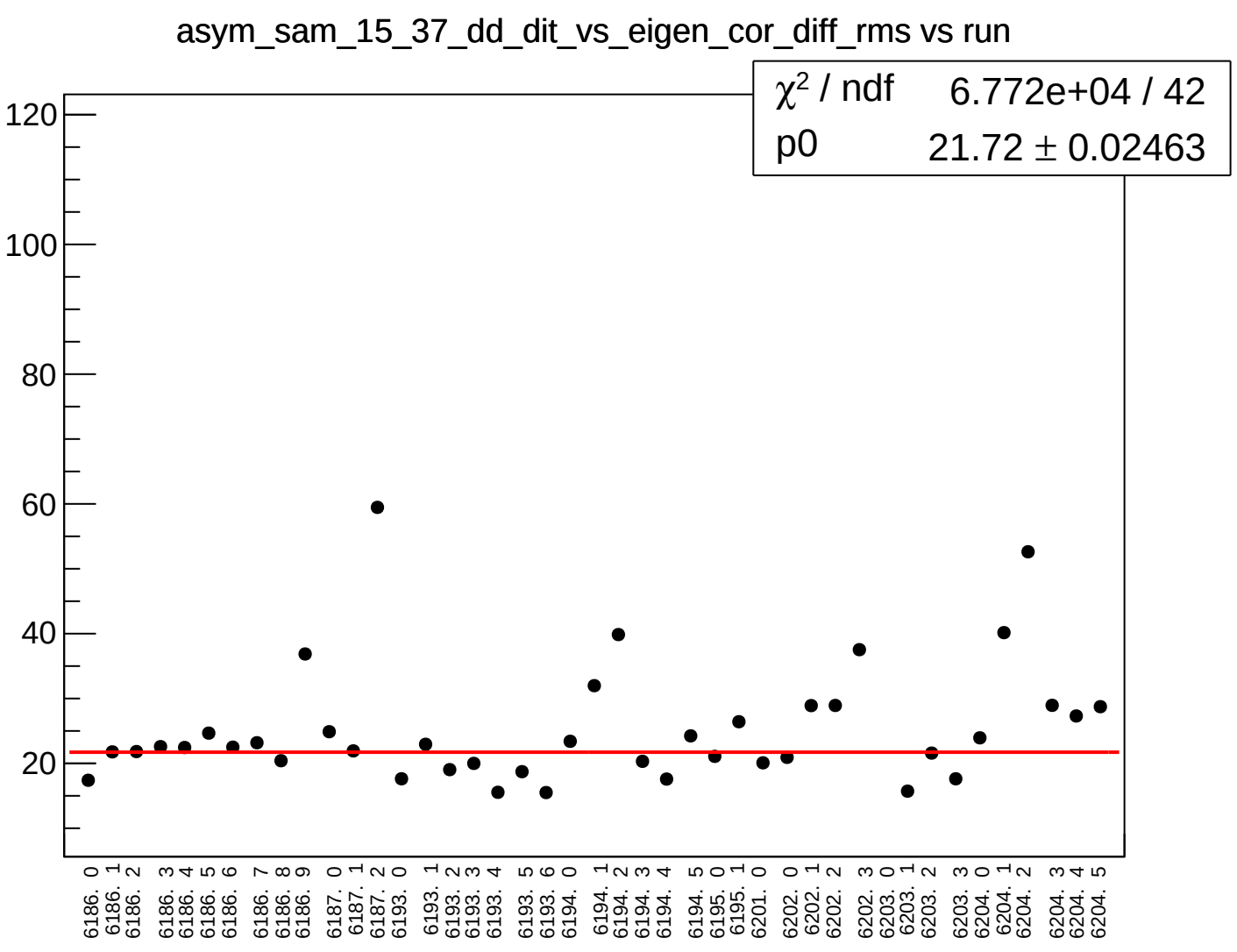

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 42.13 / 42
p0 −1.661e−13 ± 1.159e−13
0.4
0.2
0
−0.2
−0.4
−0.6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 49.64
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1037
Std Dev 0.9844
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

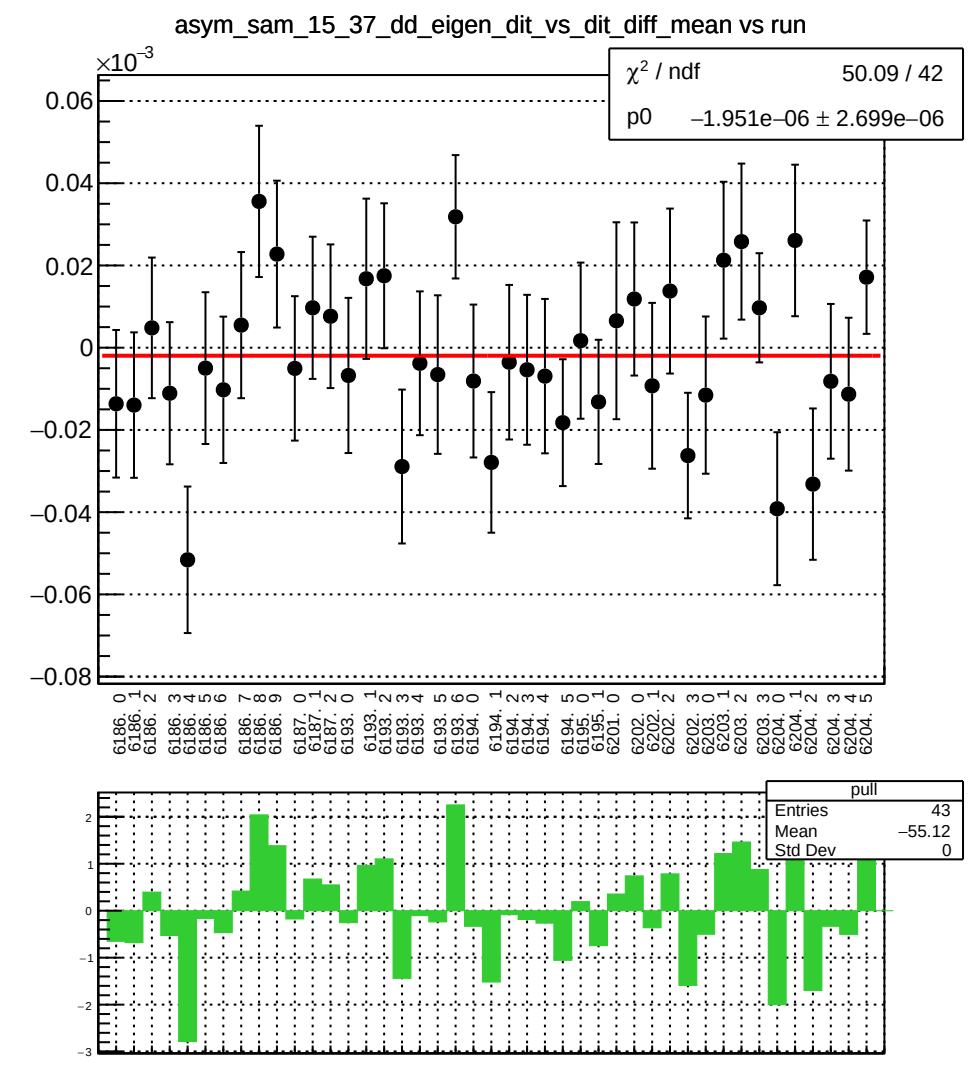

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.24e+05 / 42
p0 4.647e−11 ± 8.198e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

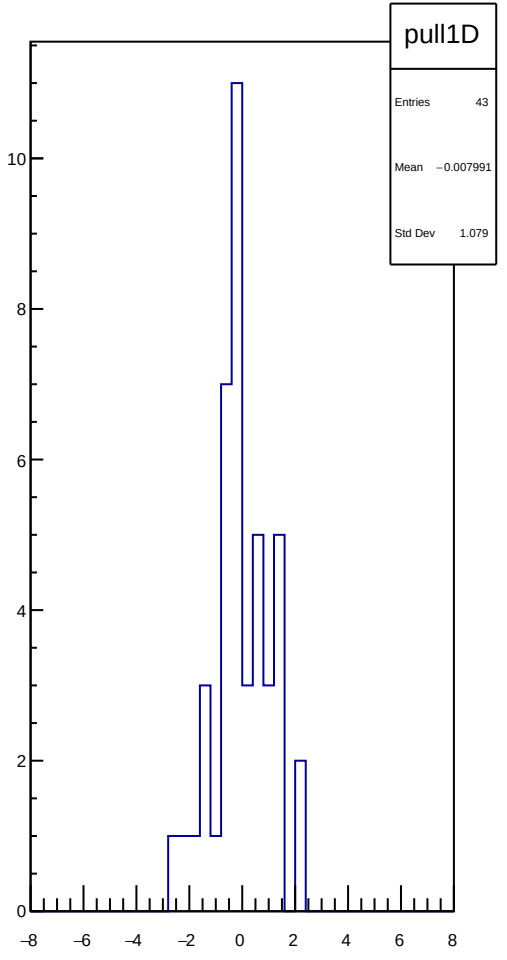

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 42.35 / 42
p0 −0.05461 ± 0.03484
pull
Entries 43
Mean −1.28
Std Dev 0
pull1D
Entries 43
Mean 0.03146
Std Dev 0.9919

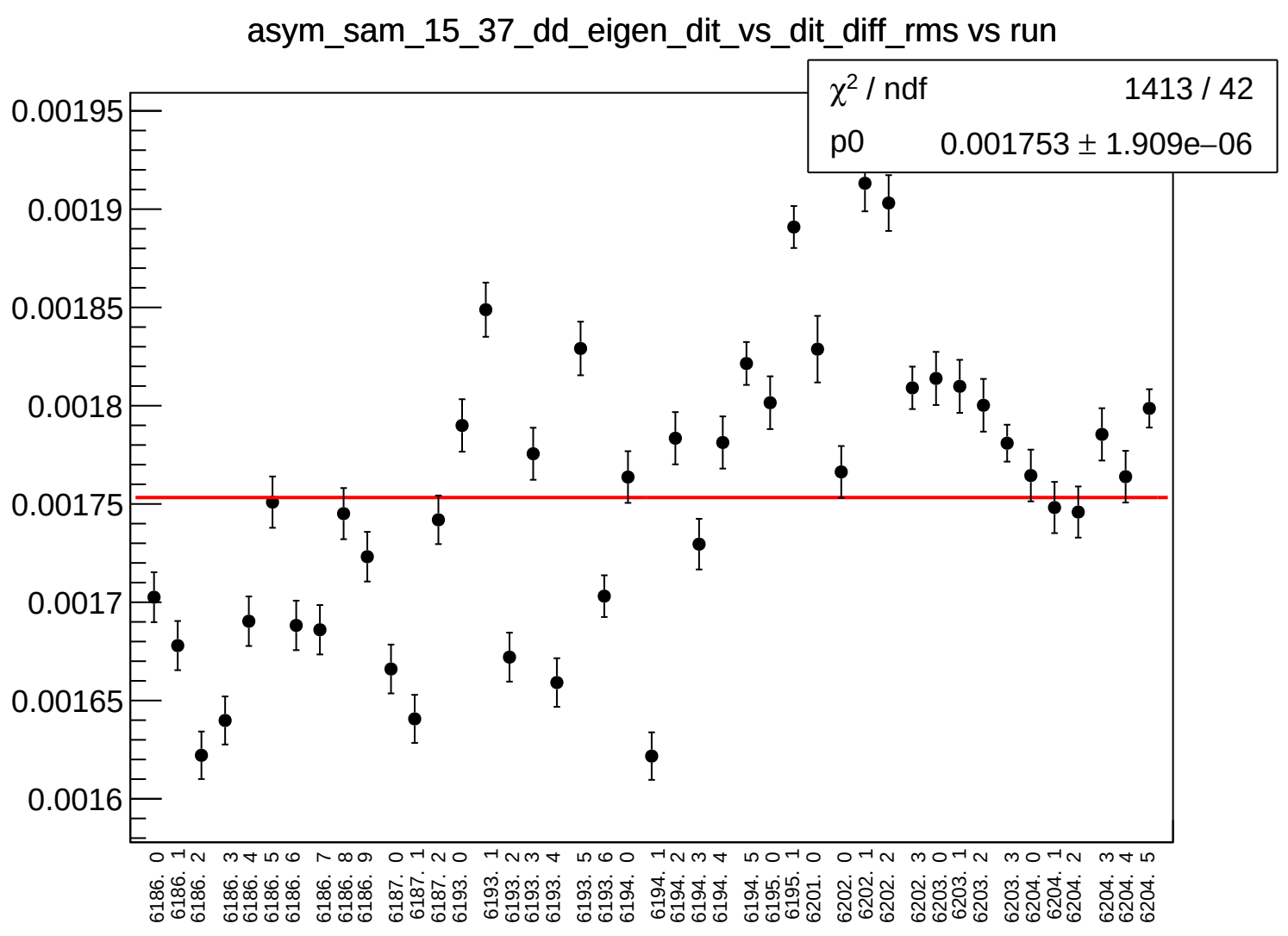

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.772e+04 / 42
p0 21.72 ± 0.02463
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

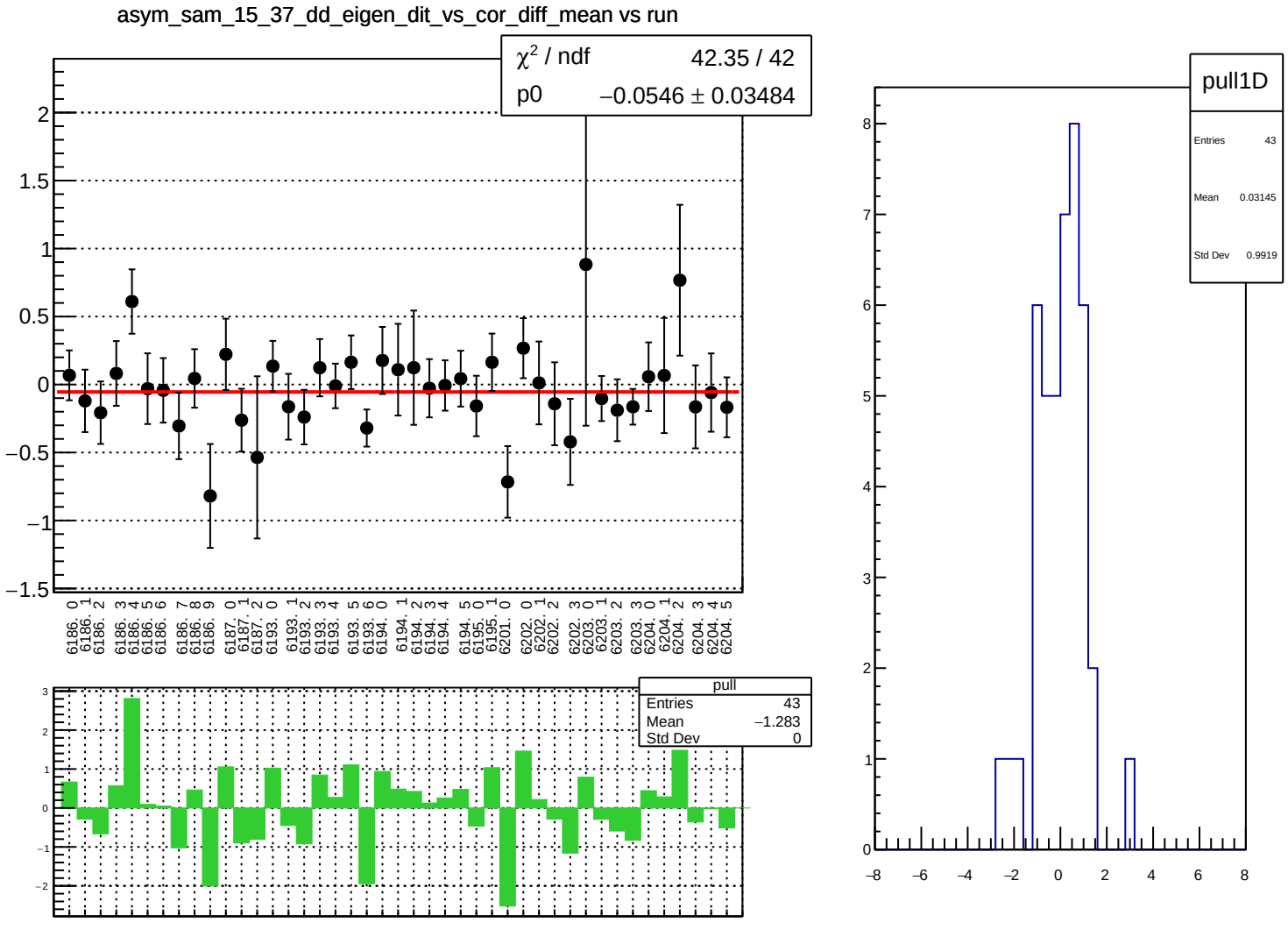

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.35 / 42
p0 −0.05461 ± 0.03484
pull
Entries 43
Mean −1.28
Std Dev 0
pull1D
Entries 43
Mean 0.03146
Std Dev 0.9919

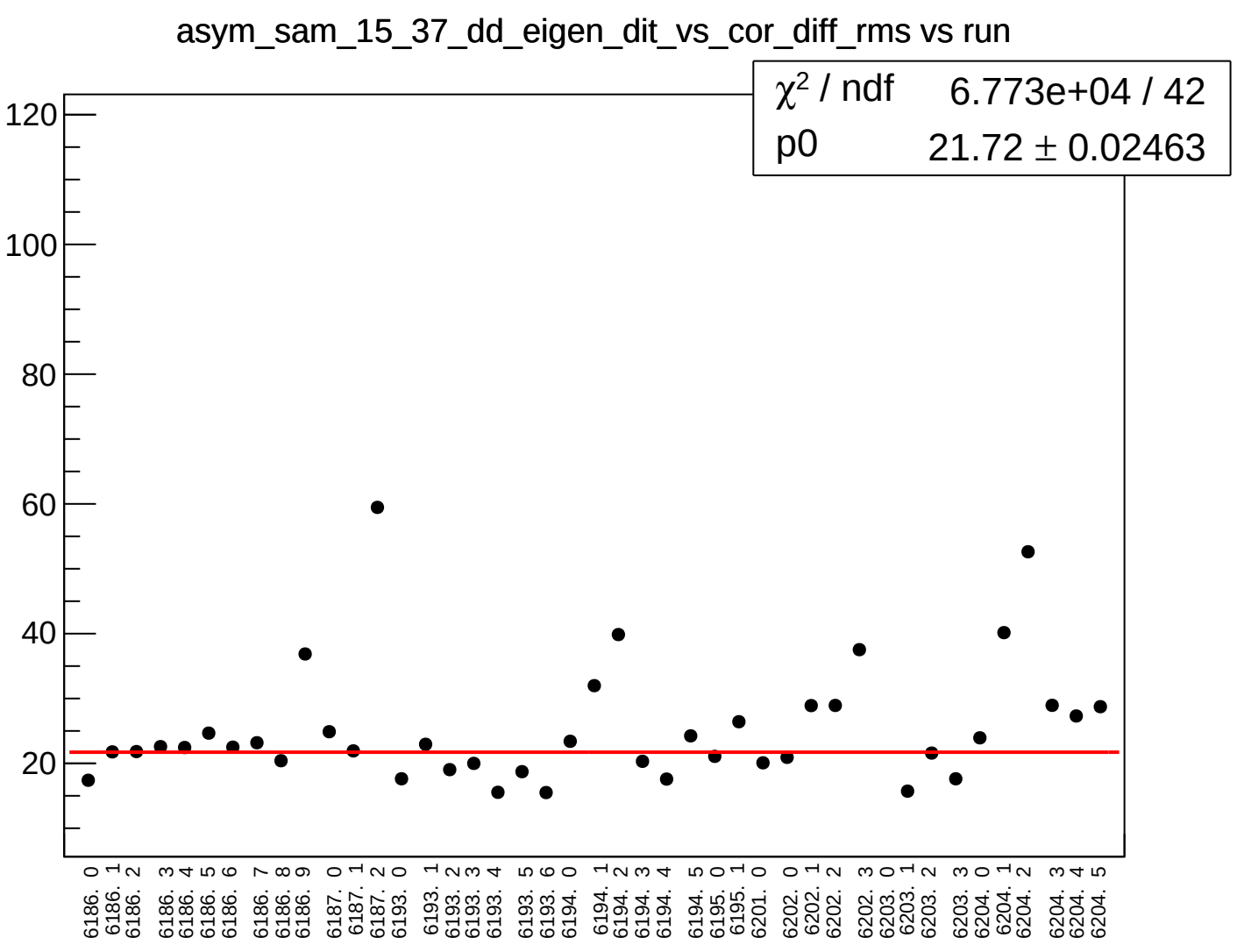

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.772e+04 / 42
p0 21.72 ± 0.02463
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

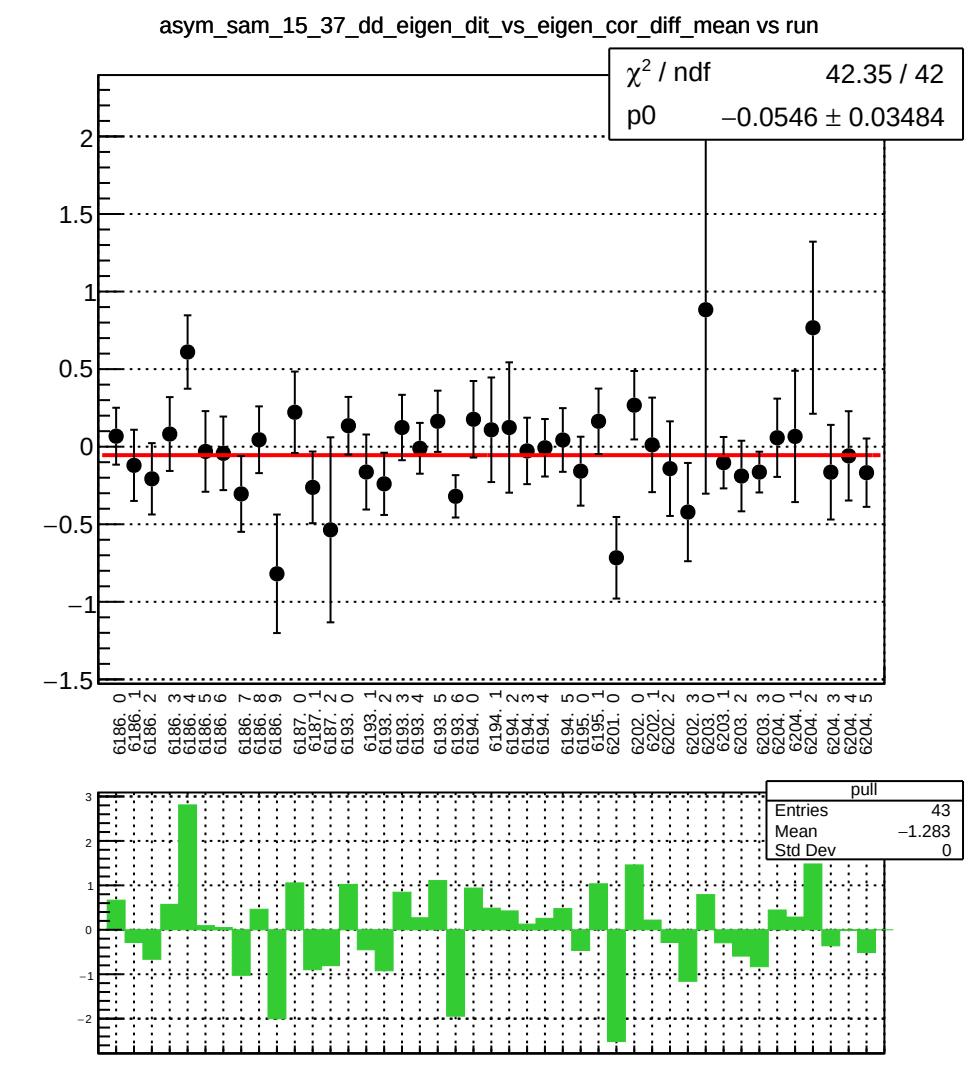

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 50.09 / 42
p0 −1.951e−06 ± 2.699e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −55.12
Std Dev 0
2
1
0
−1
−2
−3

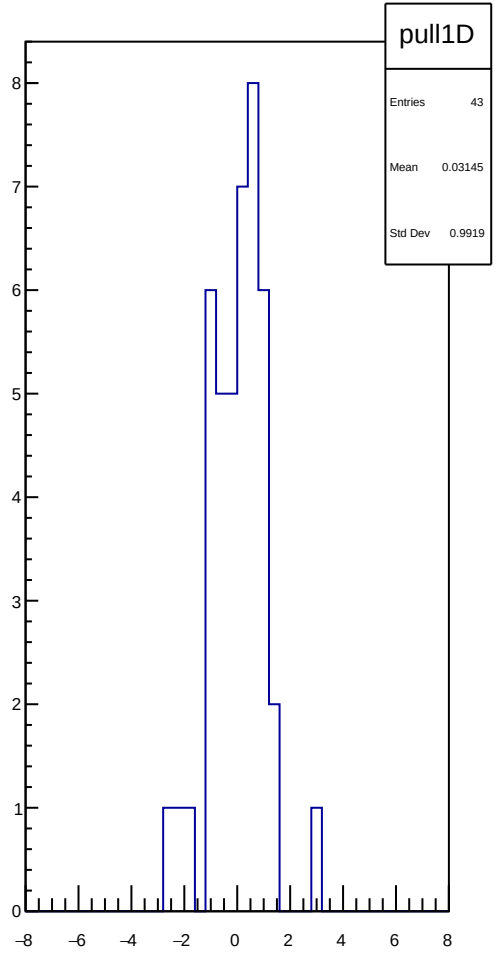

pull1D
Entries 43
Mean −0.007991
Std Dev 1.079
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

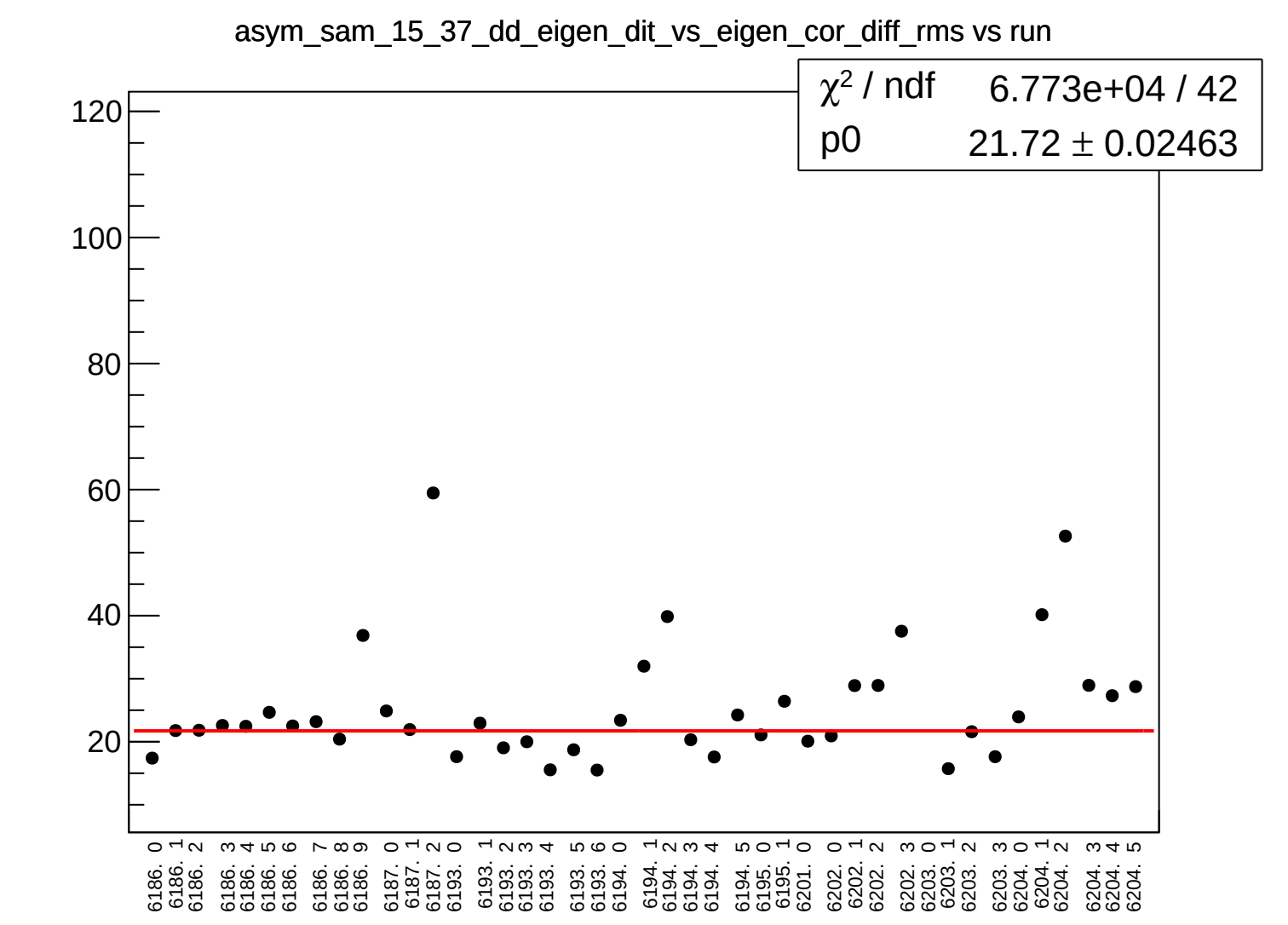

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1413 / 42
p0 0.001753 ± 1.909e−06
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

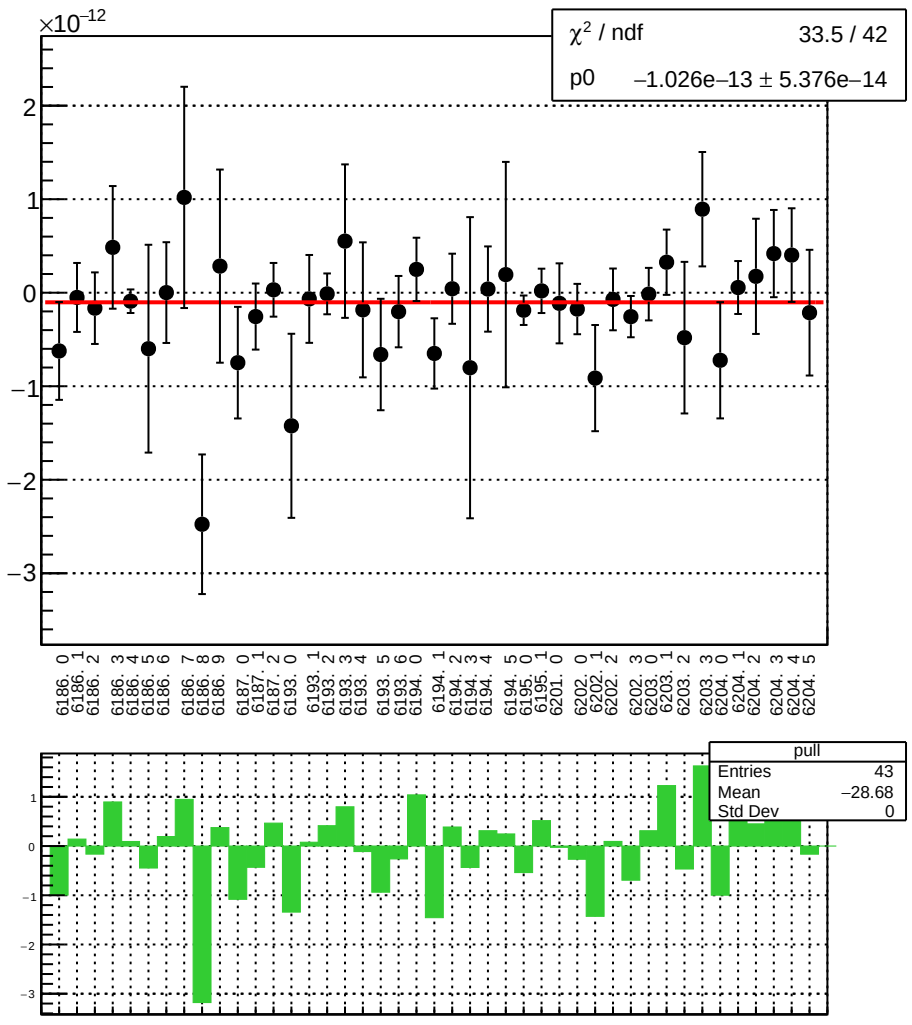

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.35 / 42
p0 −0.0546 ± 0.03484
pull
Entries 43
Mean −1.283
Std Dev 0
pull1D
Entries 43
Mean 0.03145
Std Dev 0.9919

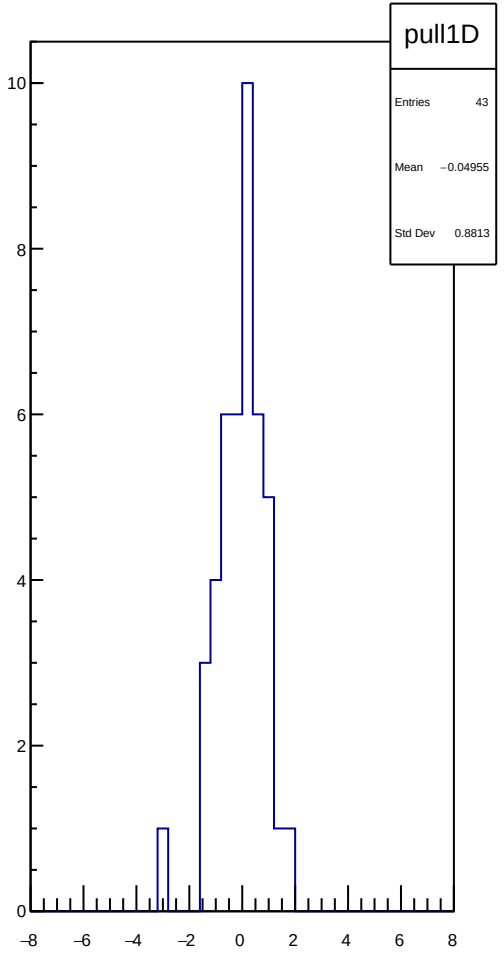

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.773e+04 / 42
p0 21.72 ± 0.02463
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

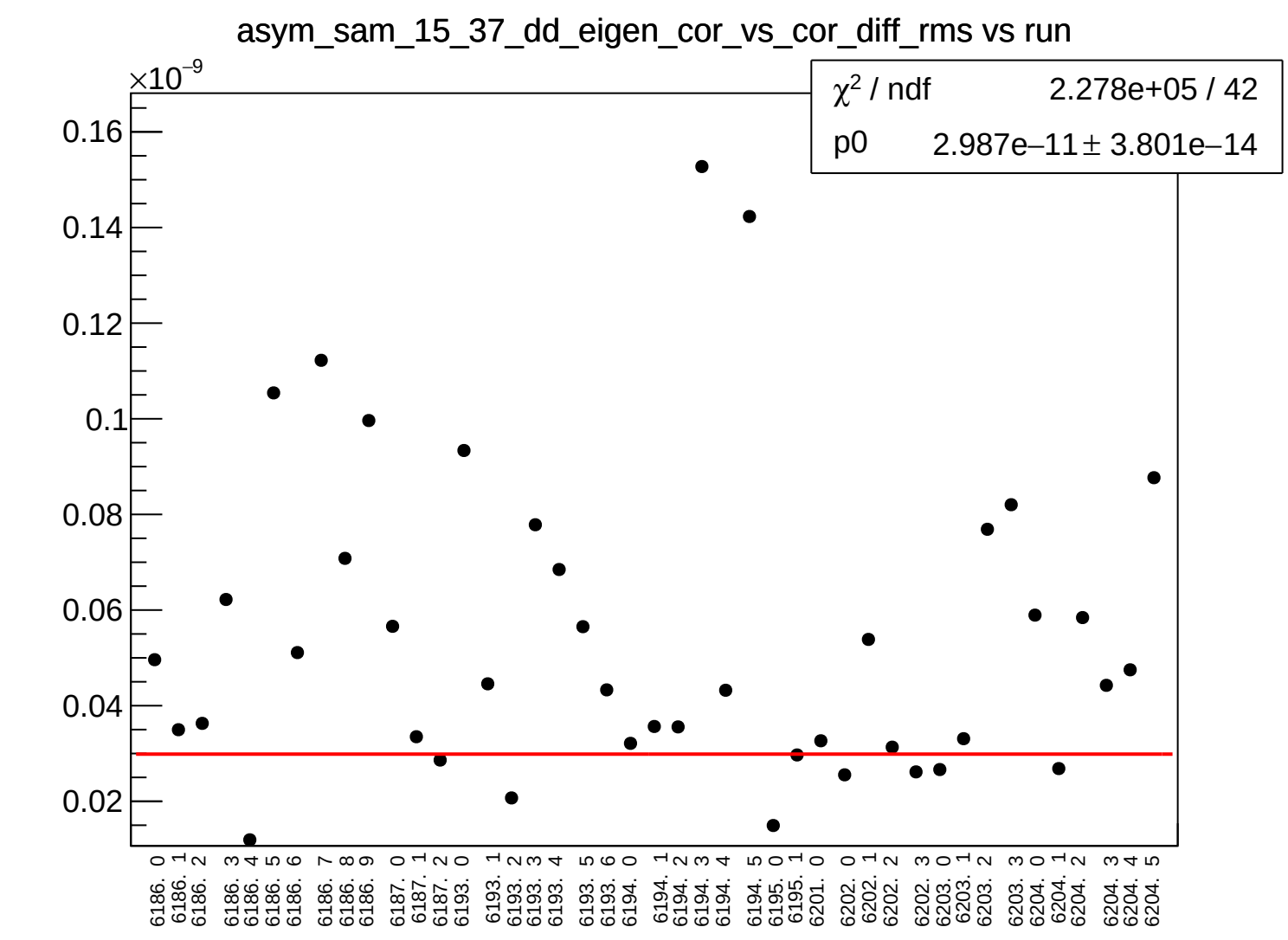

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.35 / 42
p0 −0.0546 ± 0.03484
pull
Entries 43
Mean −1.283
Std Dev 0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

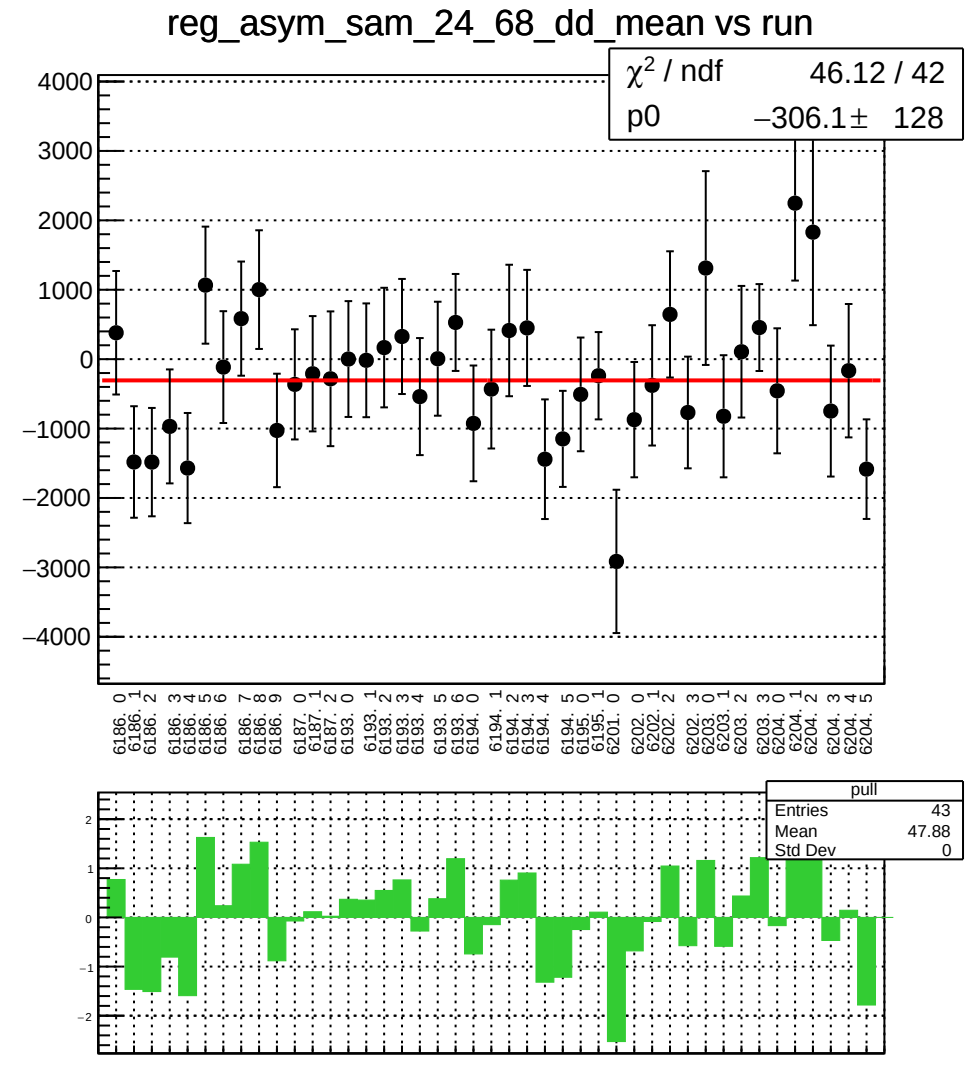

pull1D
Entries 43
Mean 0.03145
Std Dev 0.9919

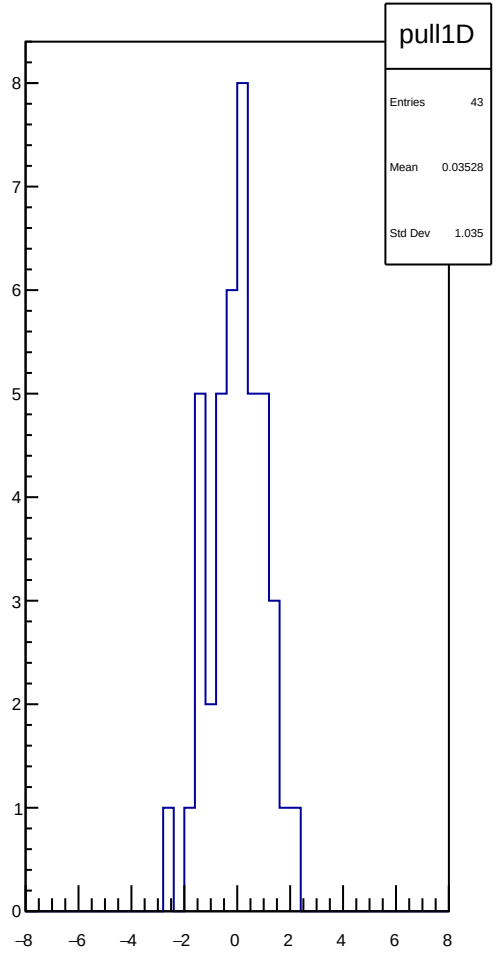

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.773e+04 / 42
p0 21.72 ± 0.02463
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

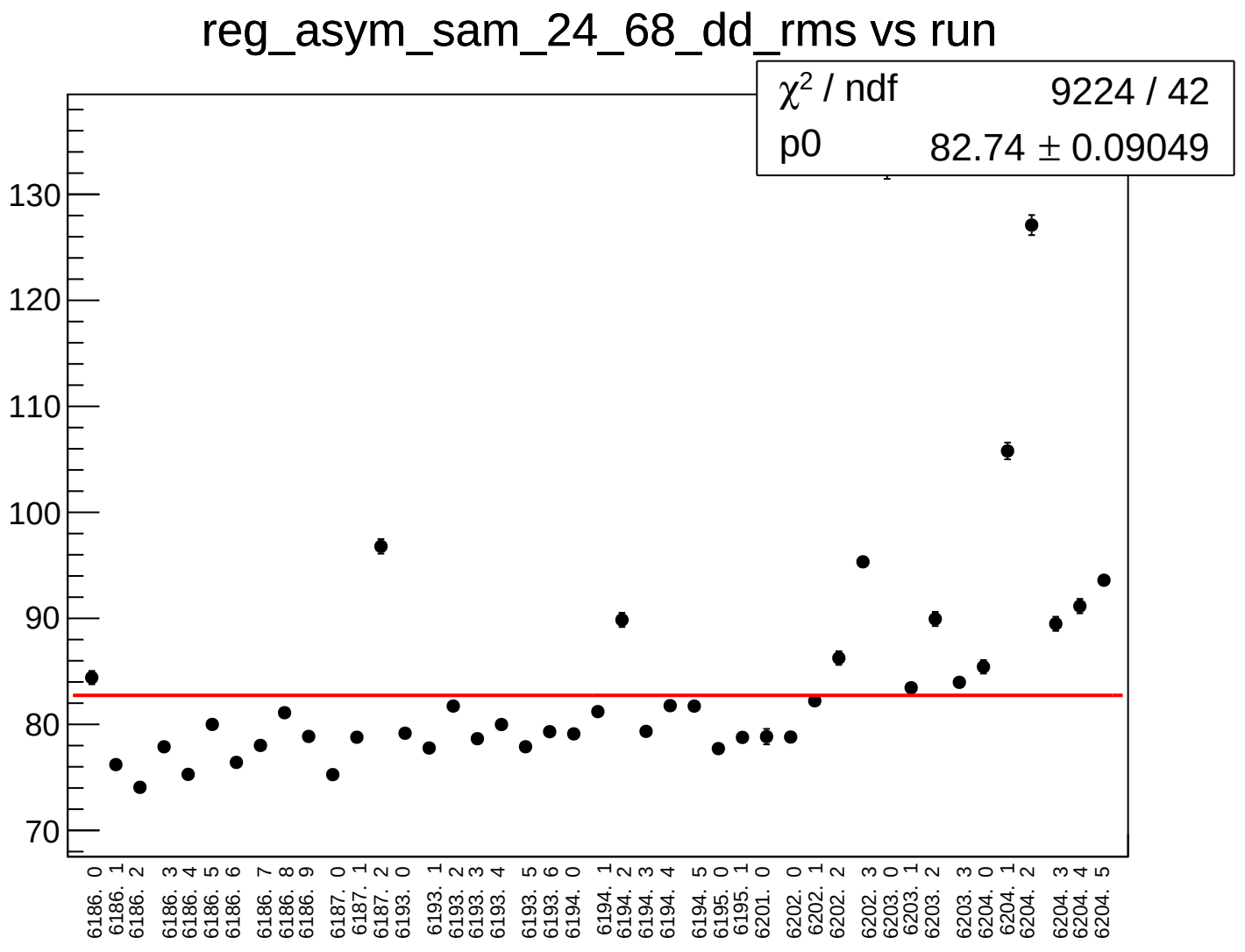

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 33.5 / 42
p0 −1.026e−13 ± 5.376e−14
pull
Entries 43
Mean −28.68
Std Dev 0

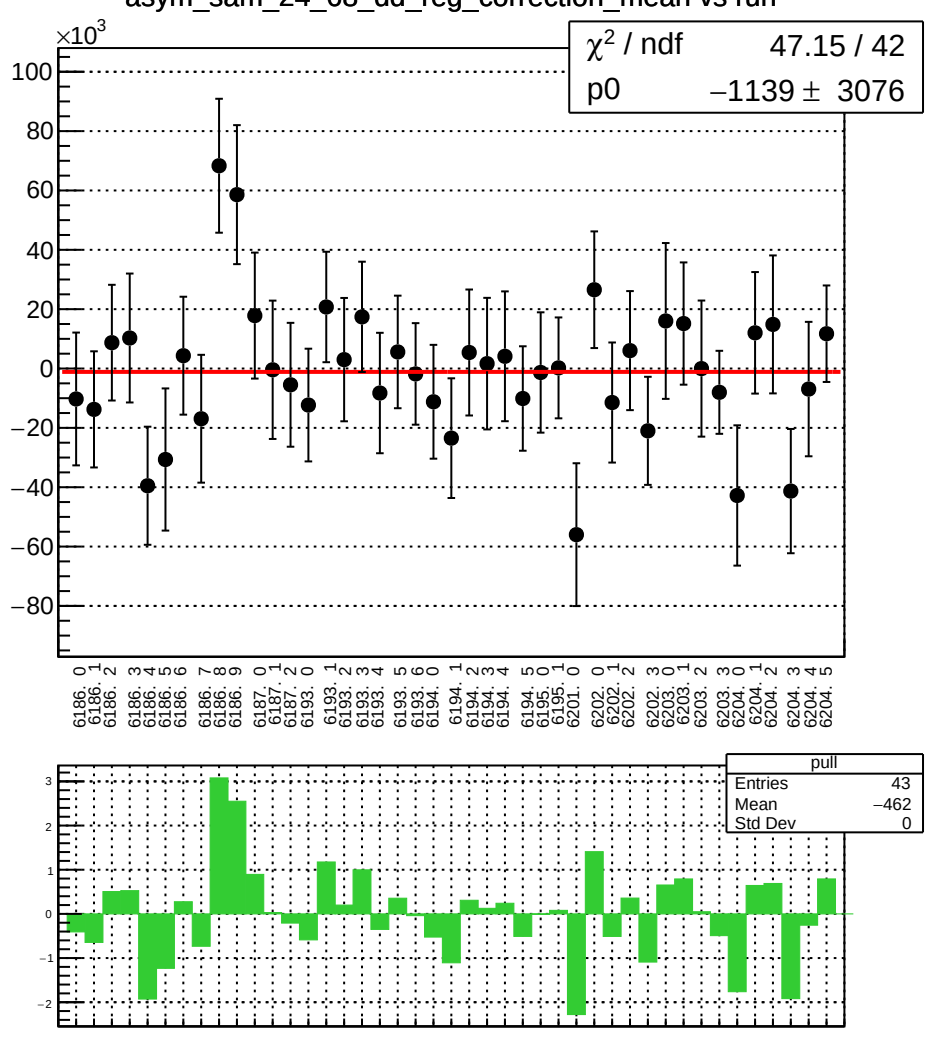

pull1D
Entries 43
Mean −0.04955
Std Dev 0.8813

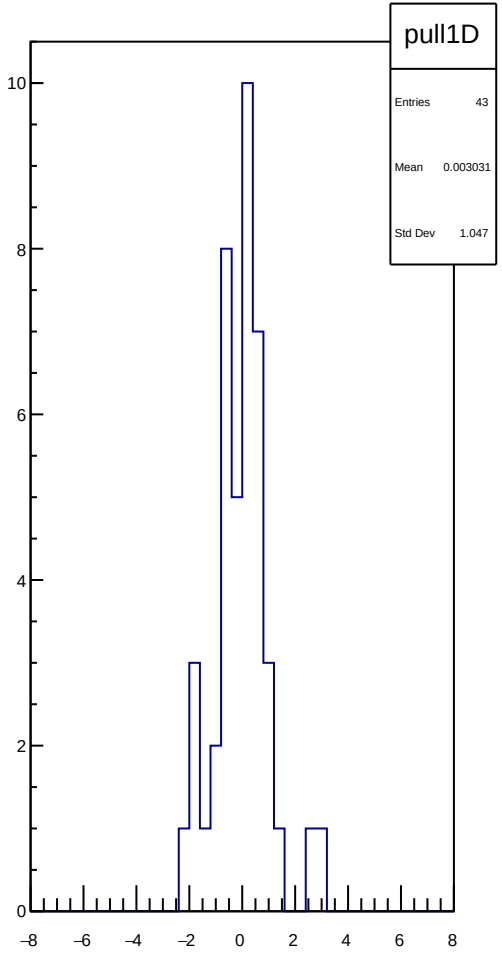

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.278e+05 / 42
p0 2.987e−11 ± 3.801e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

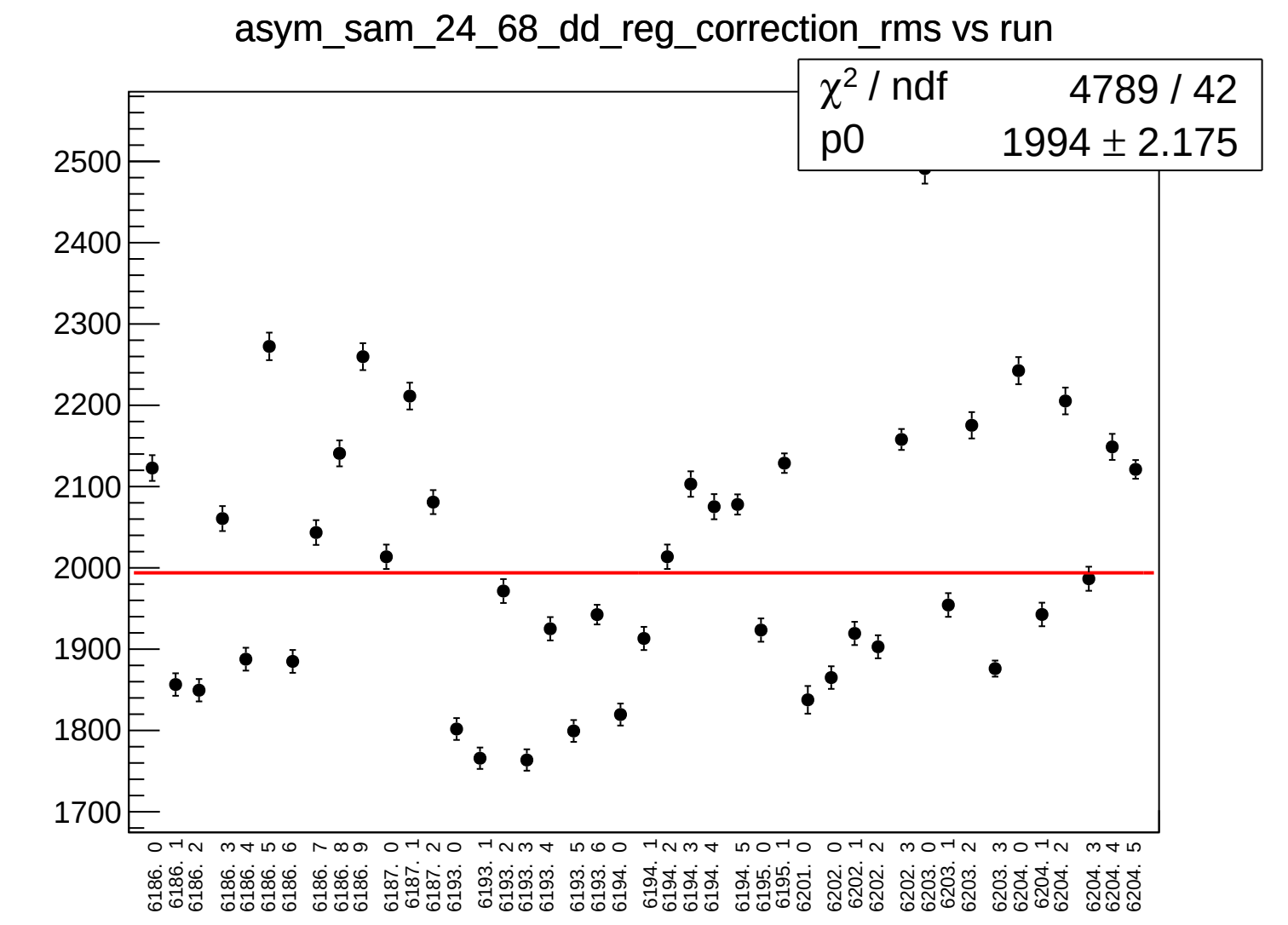

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 46.12 / 42
p0 −306.1± 128
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 47.88
Std Dev 0
2
1
0
−1
−2

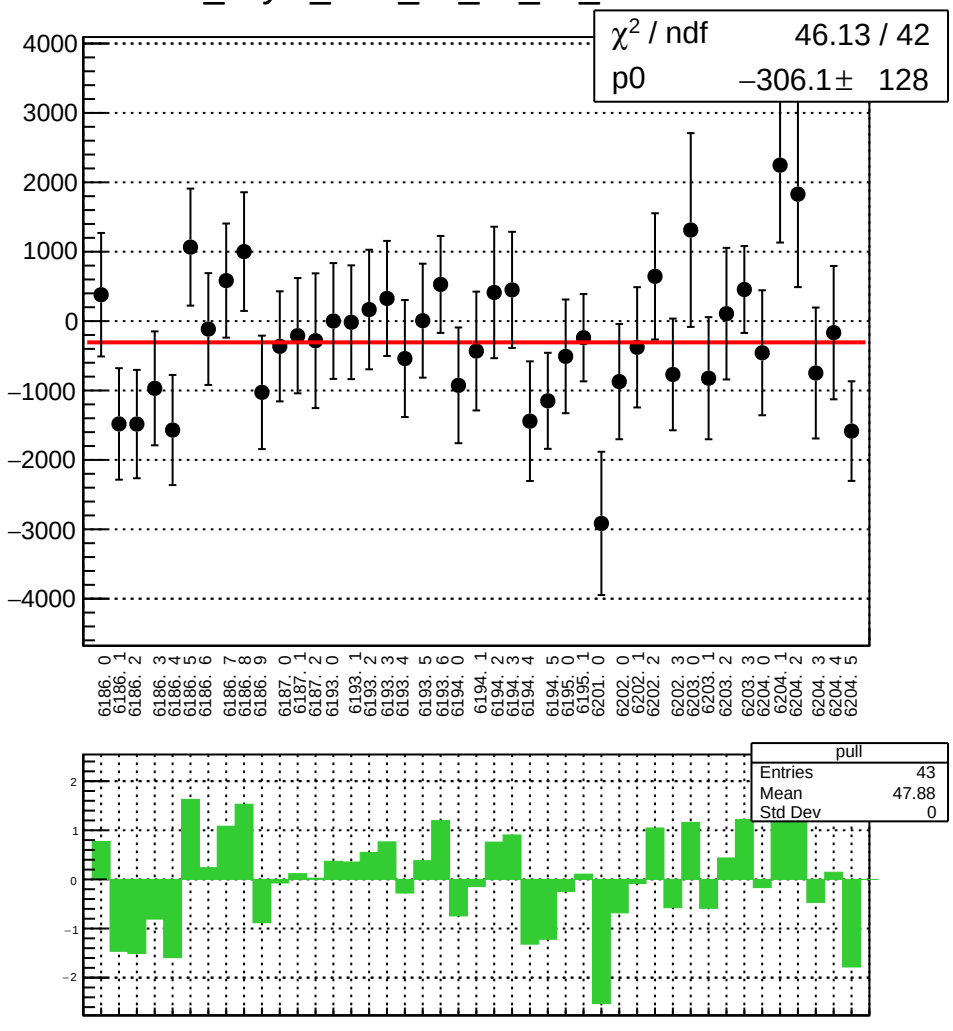

pull1D
Entries 43
Mean 0.03528
Std Dev 1.035
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

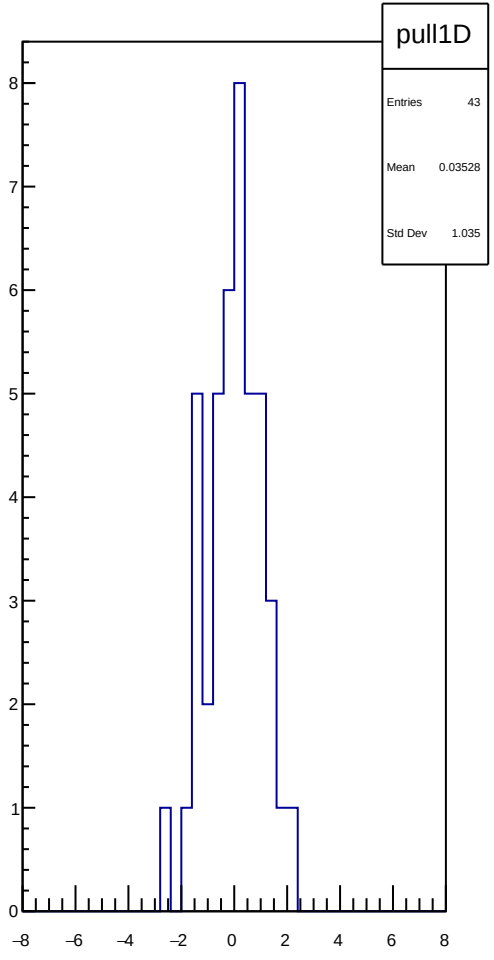

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 9224 / 42
p0 82.74 ± 0.09049
130
120
110
100
90
80
70
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

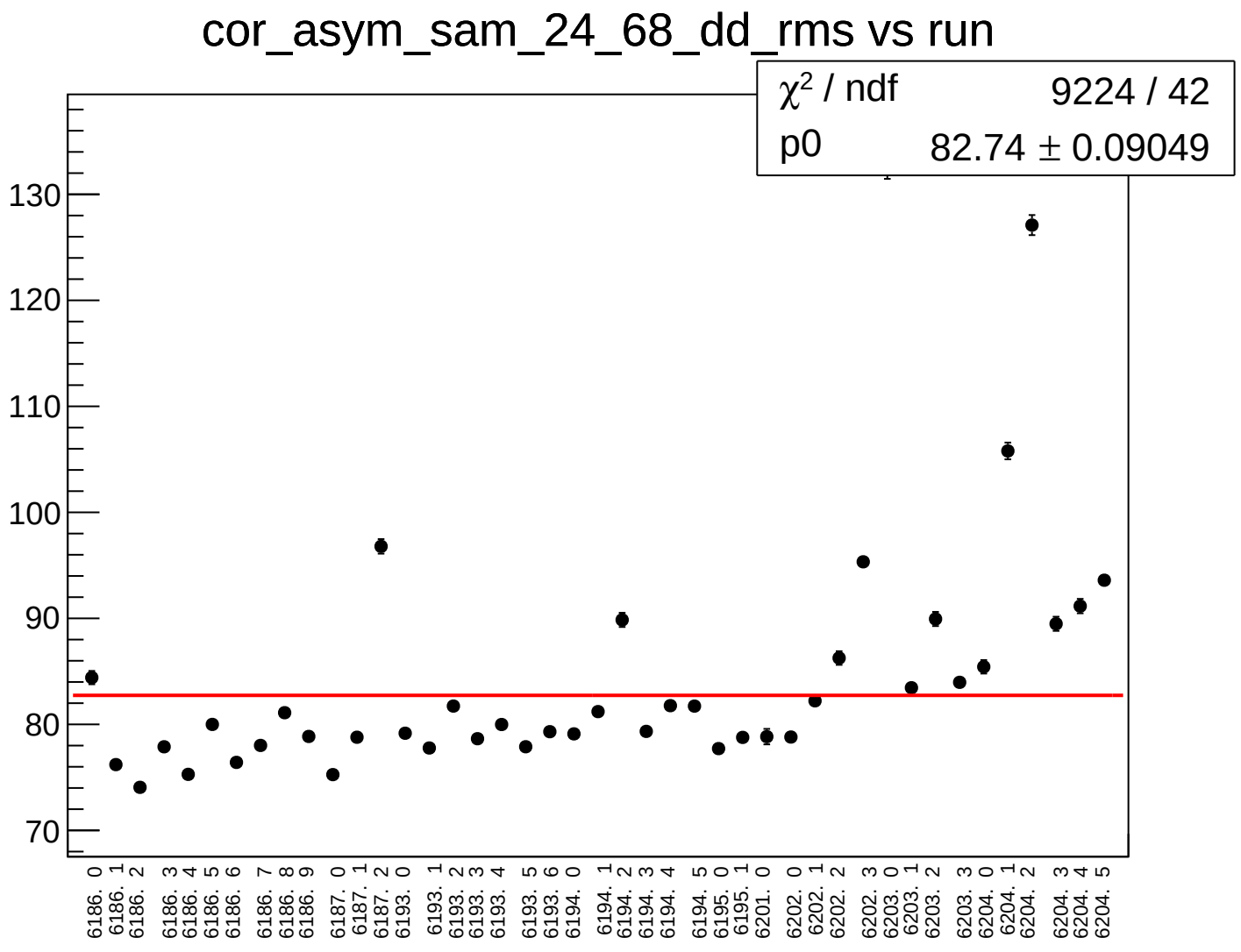

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 47.15 / 42
p0 −1139 ± 3076
100
80
60
40
20
0
−20
−40
−60
−80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −462
Std Dev 0
3
2
1
0
−1
−2

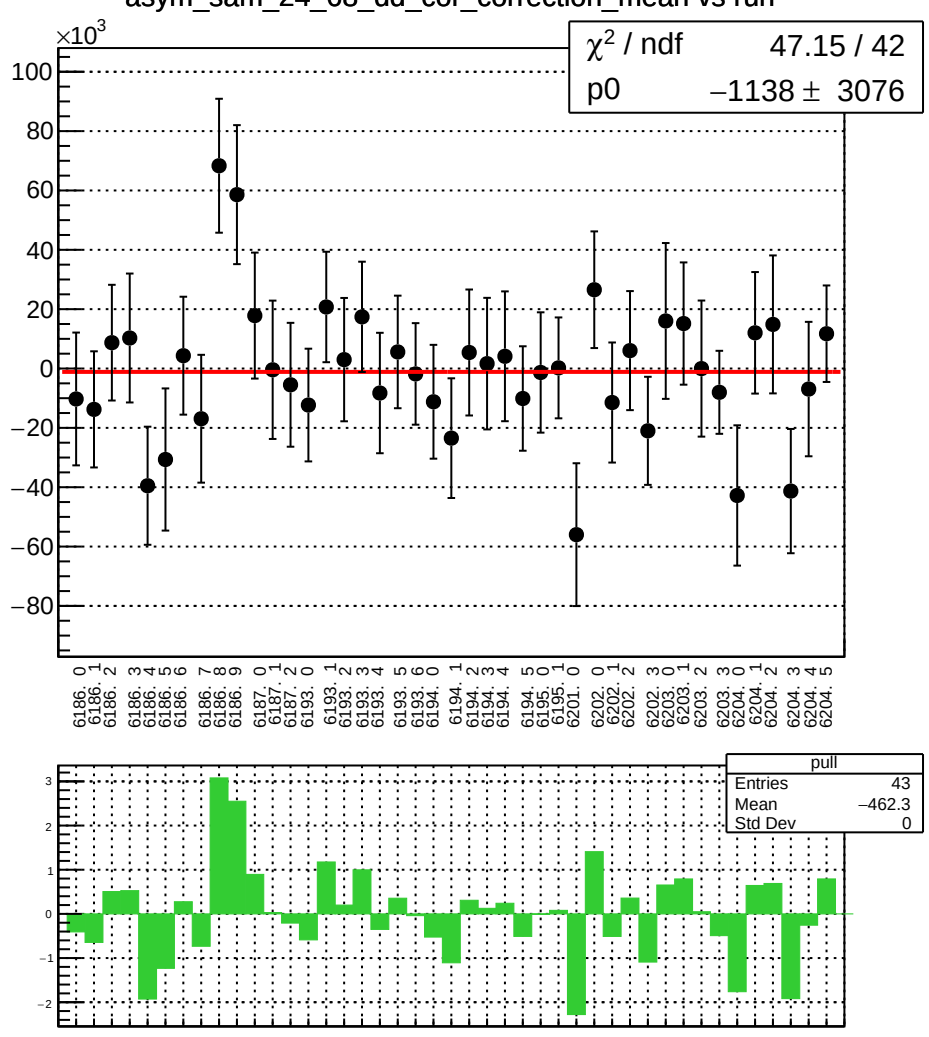

pull1D
Entries 43
Mean 0.003031
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

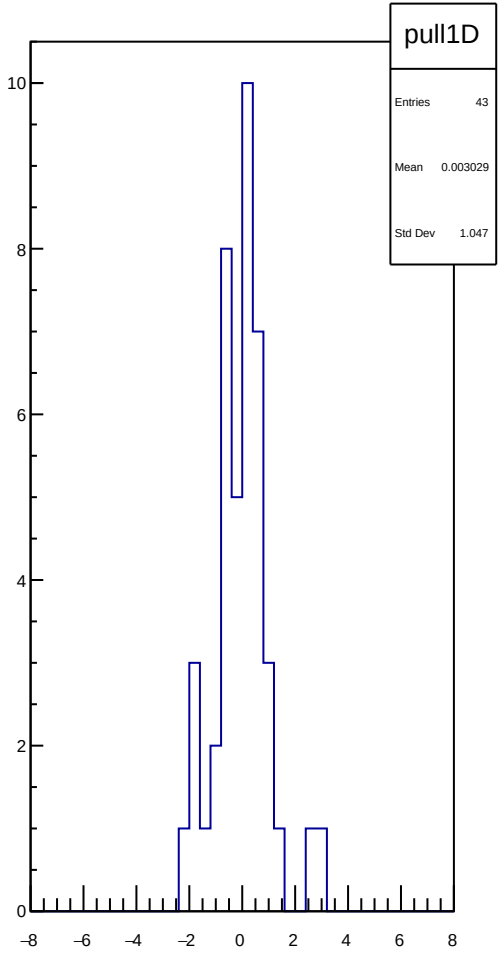

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 4789 / 42
p0 1994 ± 2.175
2500
2400
2300
2200
2100
2000
1900
1800
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

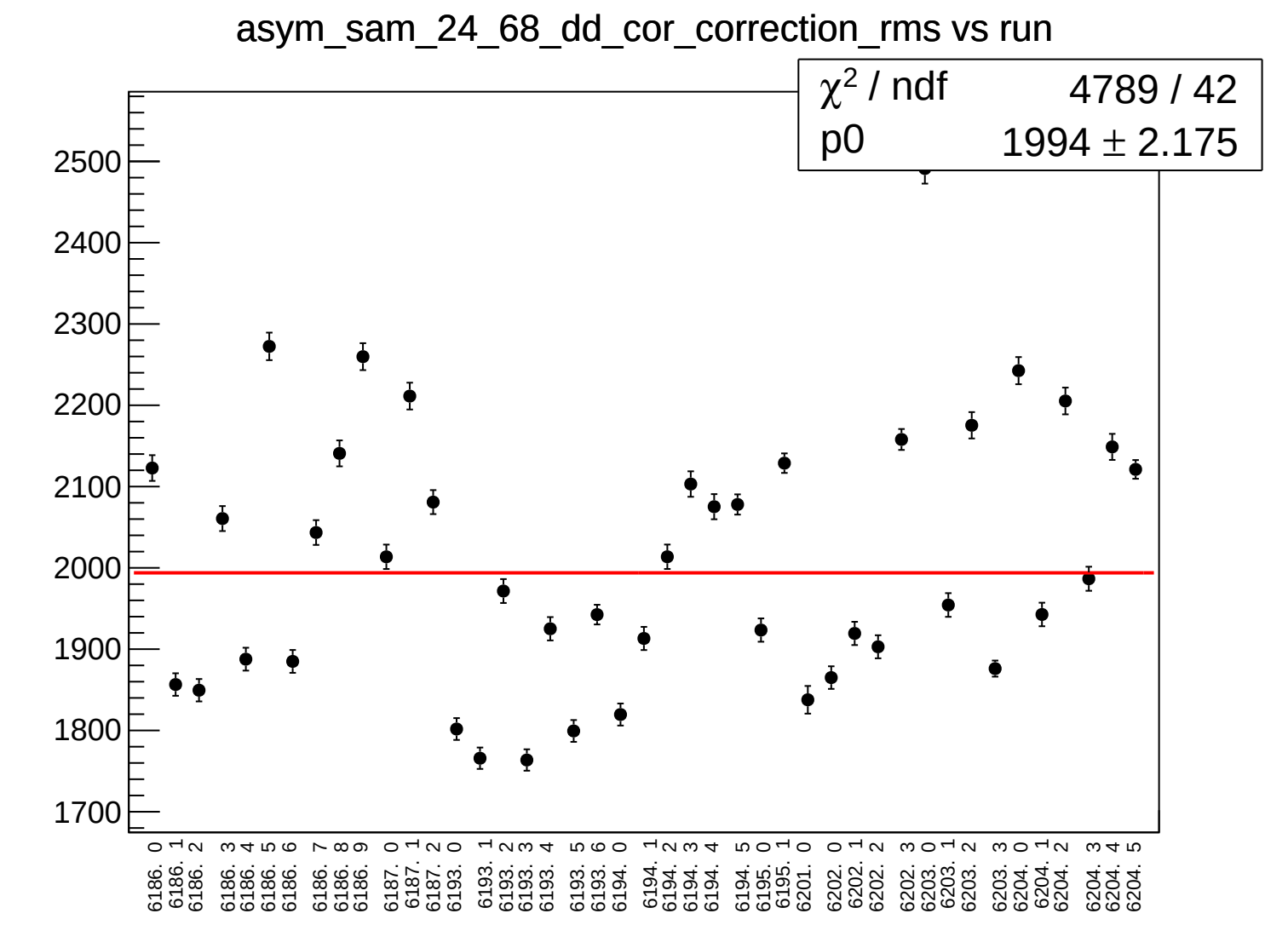

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 46.13 / 42
p0 −306.1± 128
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 47.88
Std Dev 0
2
1
0
−1
−2

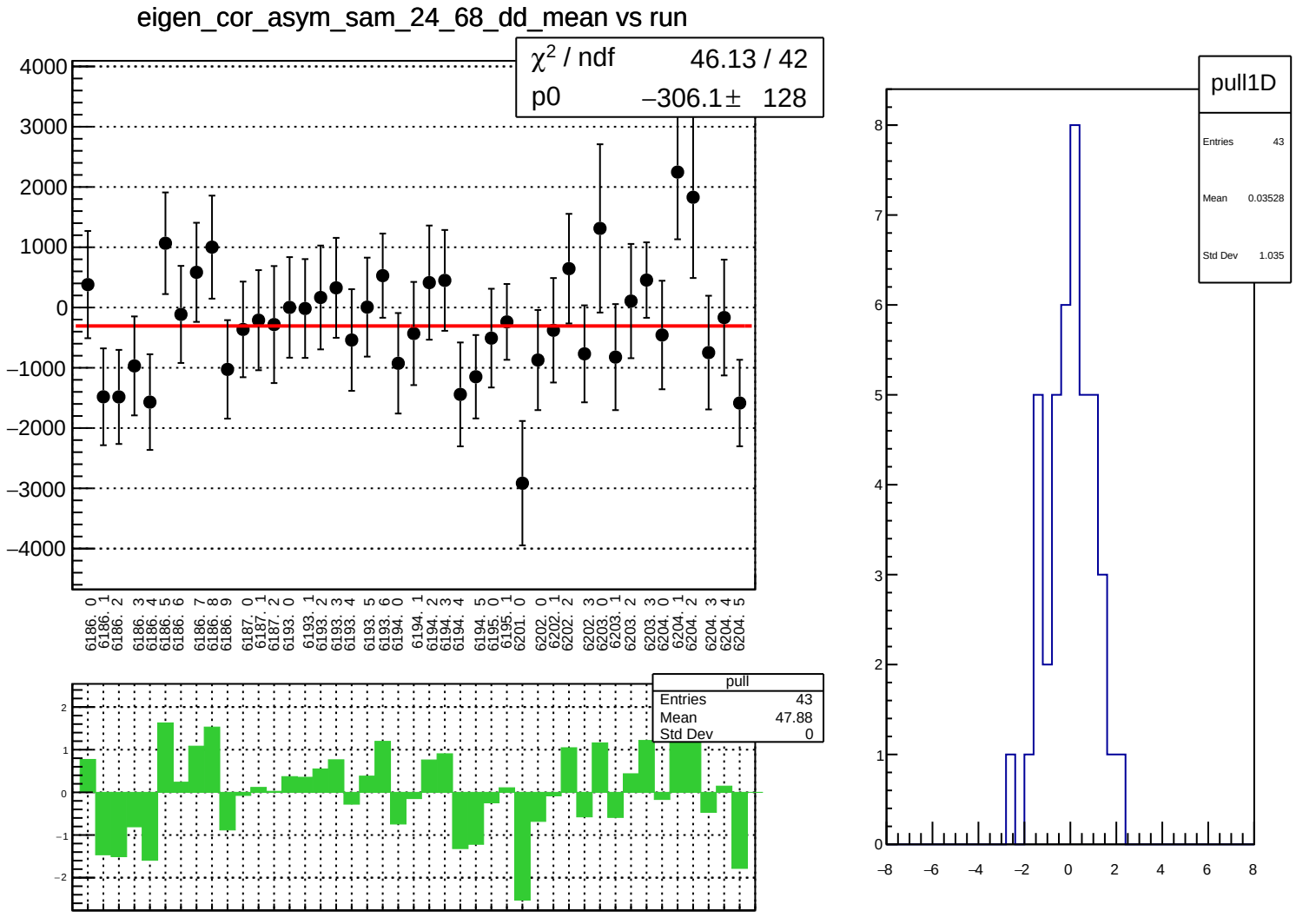

pull1D
Entries 43
Mean 0.03528
Std Dev 1.035
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

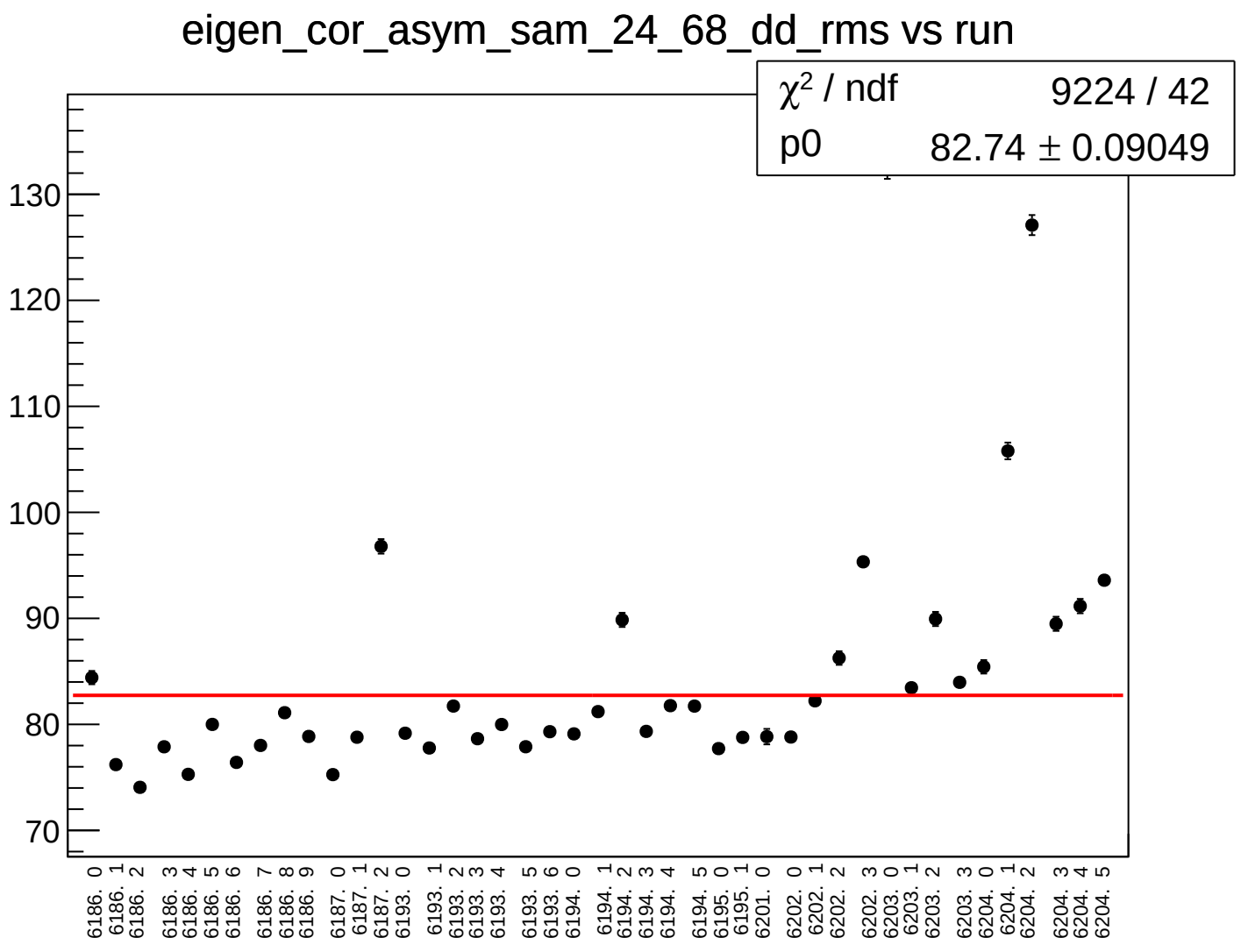

cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 9224 / 42
p0 82.74 ± 0.09049
130
120
110
100
90
80
70
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

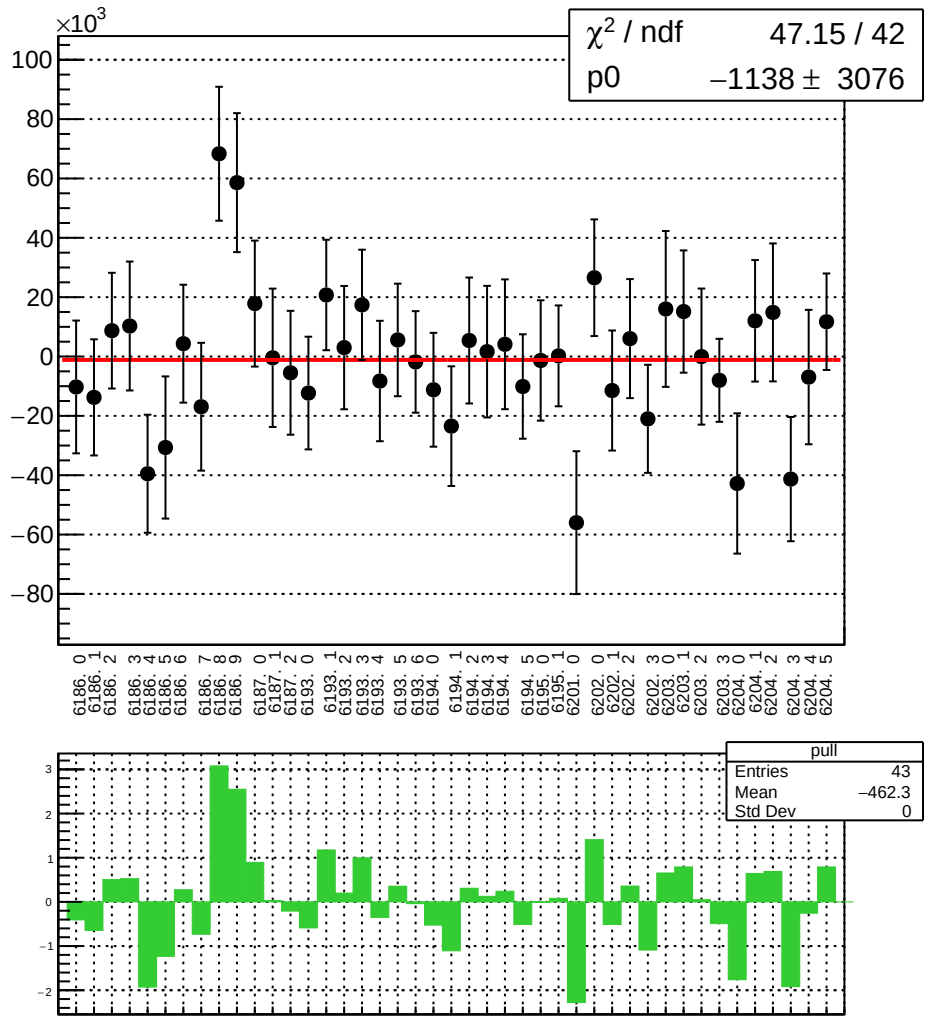

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 47.15 / 42
p0 −1138 ± 3076
pull
Entries 43
Mean −462.3
Std Dev 0

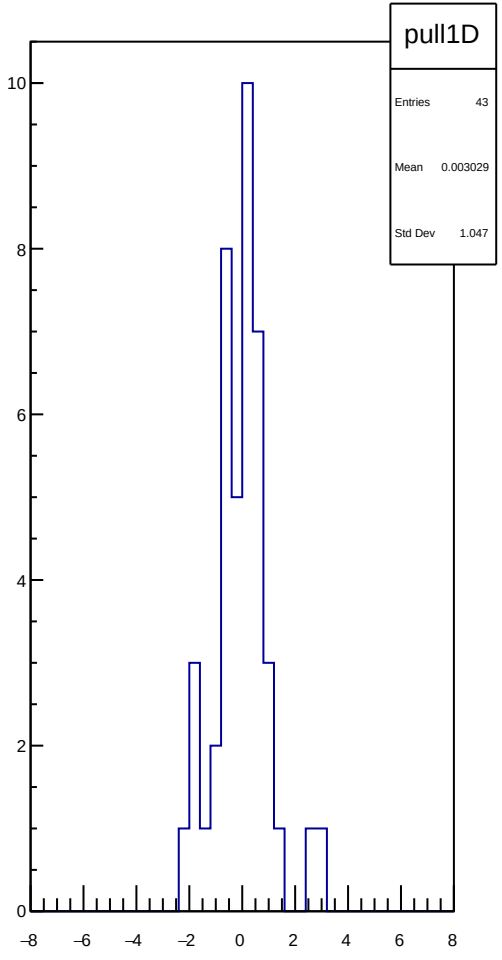

pull1D
Entries 43
Mean 0.003029
Std Dev 1.047

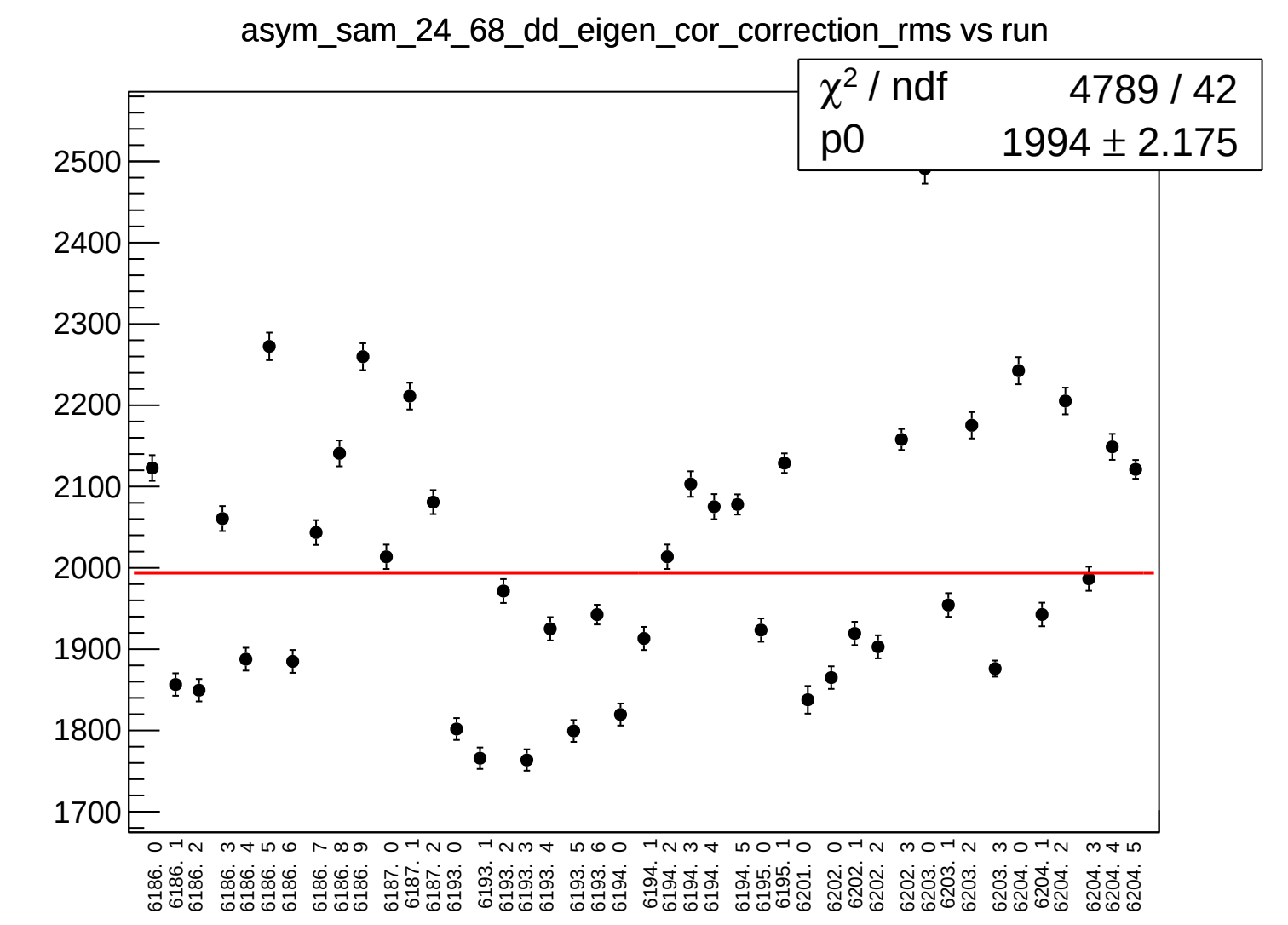

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 4789 / 42
p0 1994 ± 2.175
2500
2400
2300
2200
2100
2000
1900
1800
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

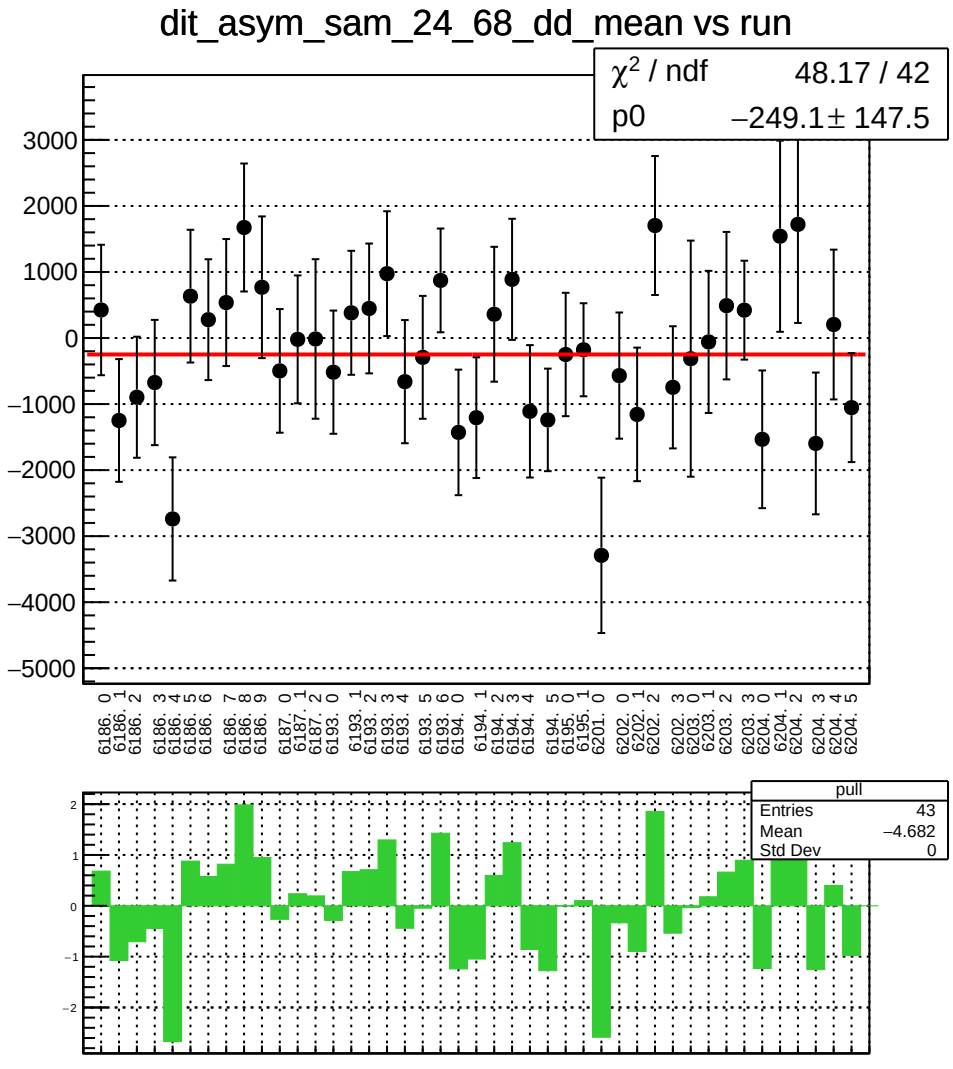

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 46.13 / 42
p0 −306.1± 128
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 47.88
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03528
Std Dev 1.035
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

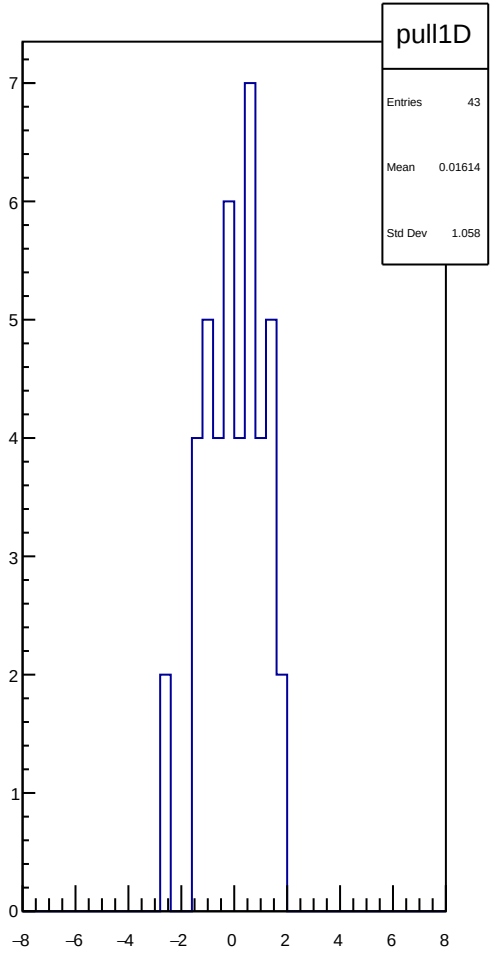

eigen_cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 9224 / 42
p0 82.74 ± 0.09049
130
120
110
100
90
80
70
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

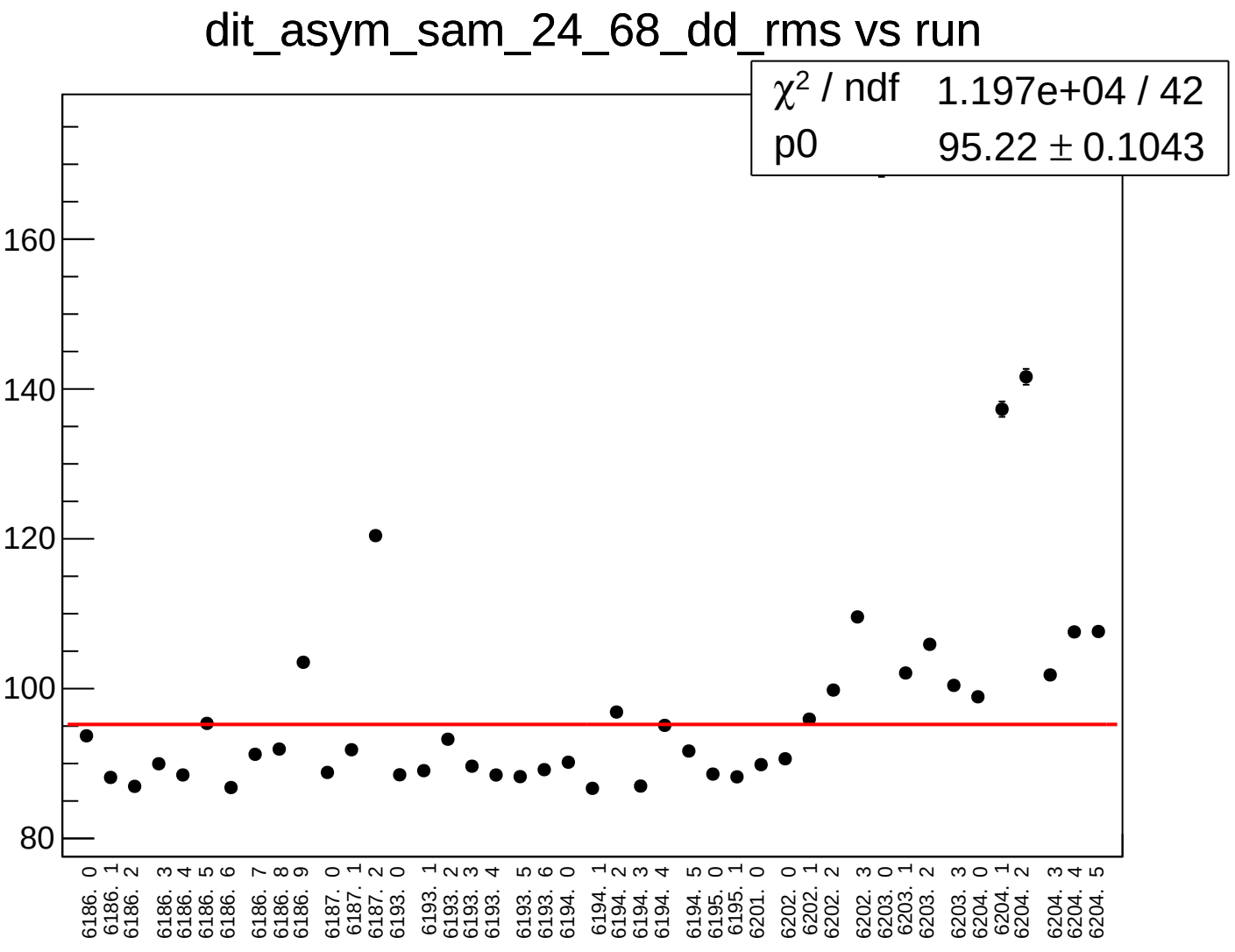

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 47.15 / 42
p0 −1138 ± 3076
100
80
60
40
20
0
−20
−40
−60
−80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −462.3
Std Dev 0
3
2
1
0
−1
−2

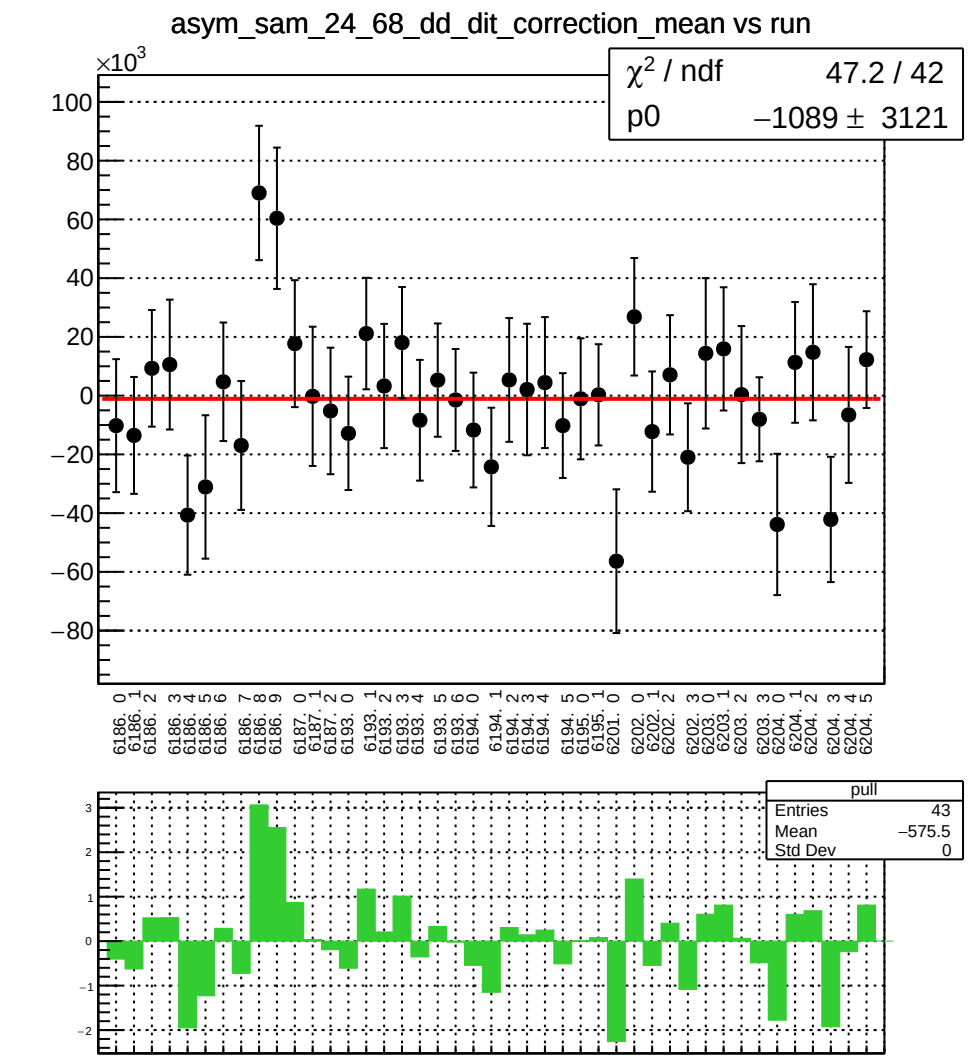

pull1D
Entries 43
Mean 0.003029
Std Dev 1.047
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

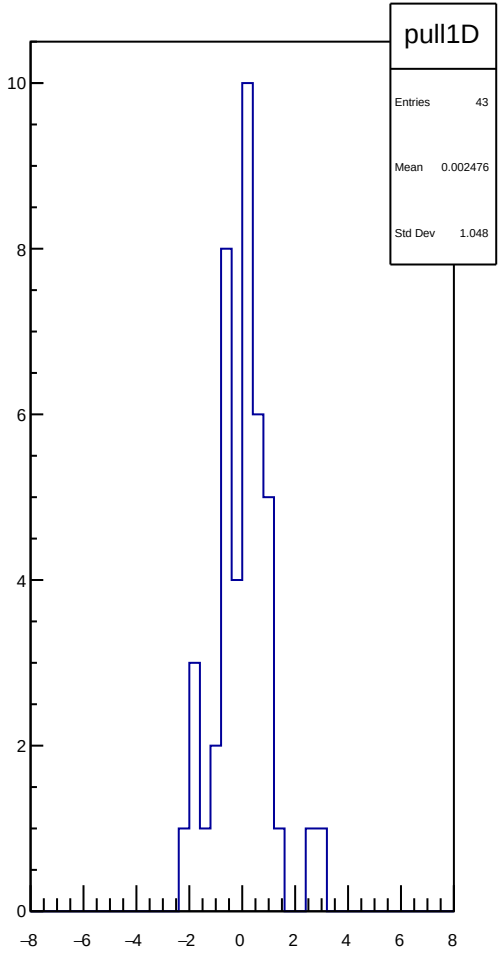

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 4789 / 42
p0 1994 ± 2.175
2500
2400
2300
2200
2100
2000
1900
1800
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

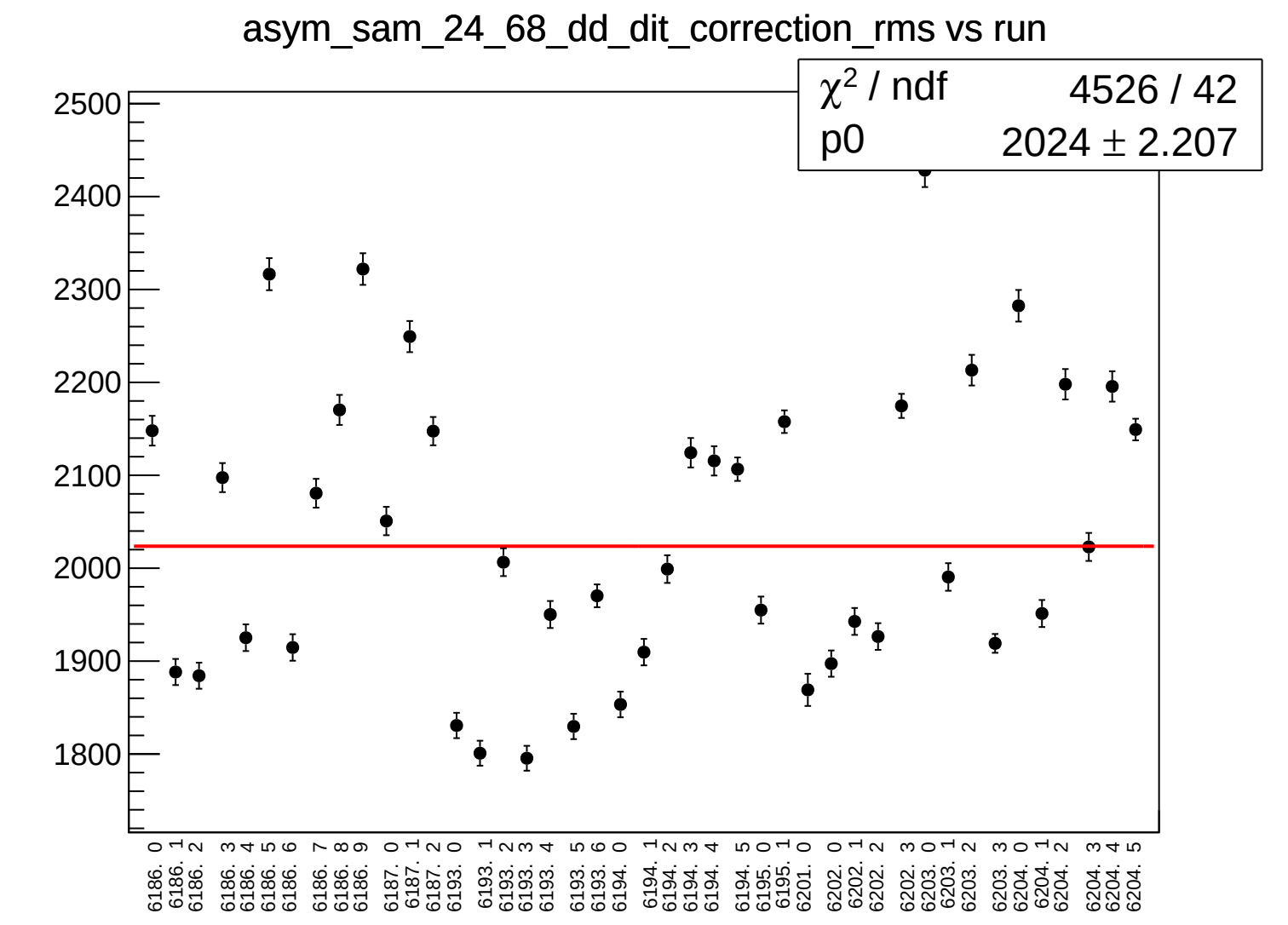

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 48.17 / 42
p0 −249.1± 147.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −4.682
Std Dev 0
2
1
0
−1
−2

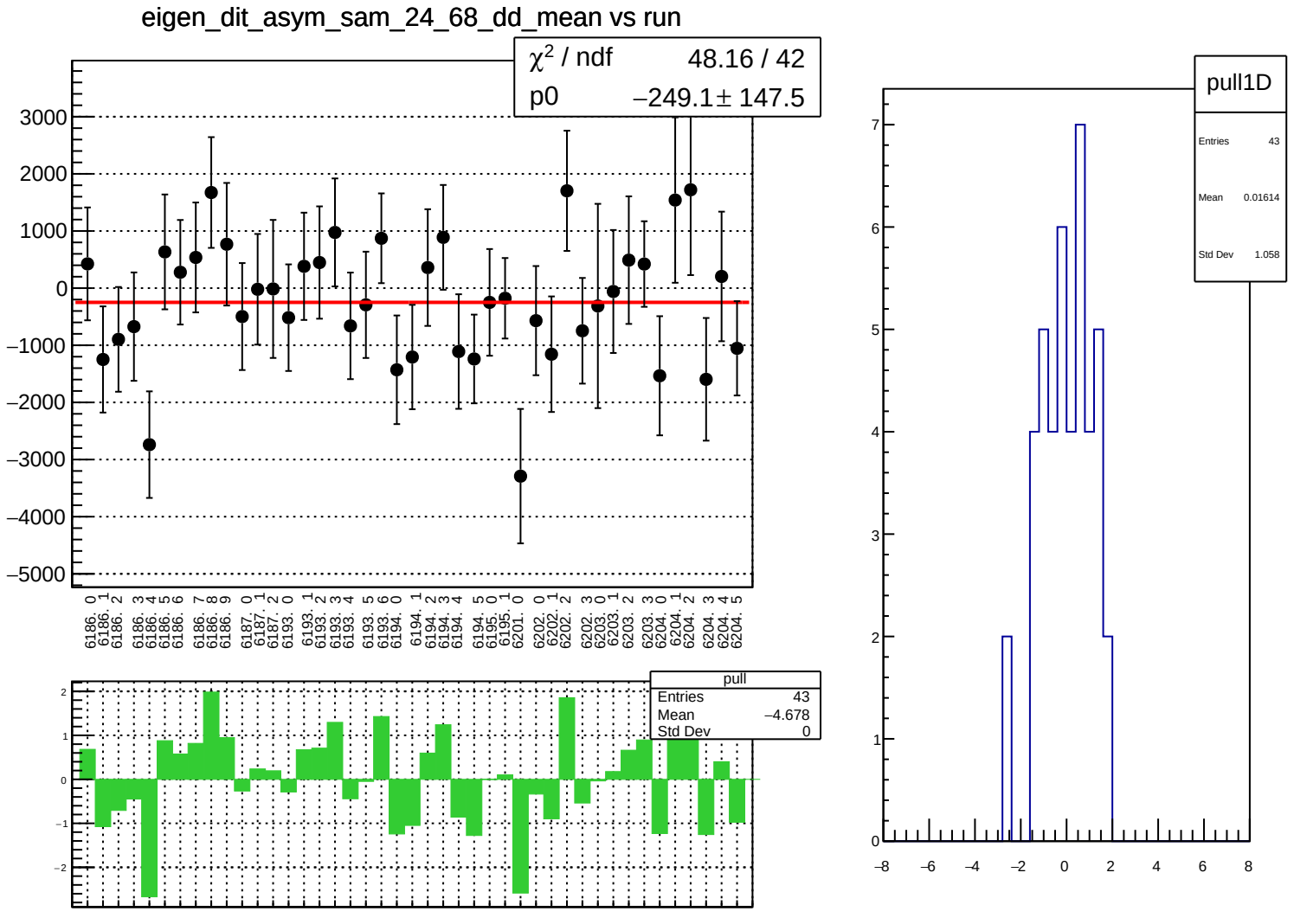

pull1D
Entries 43
Mean 0.01614
Std Dev 1.058
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

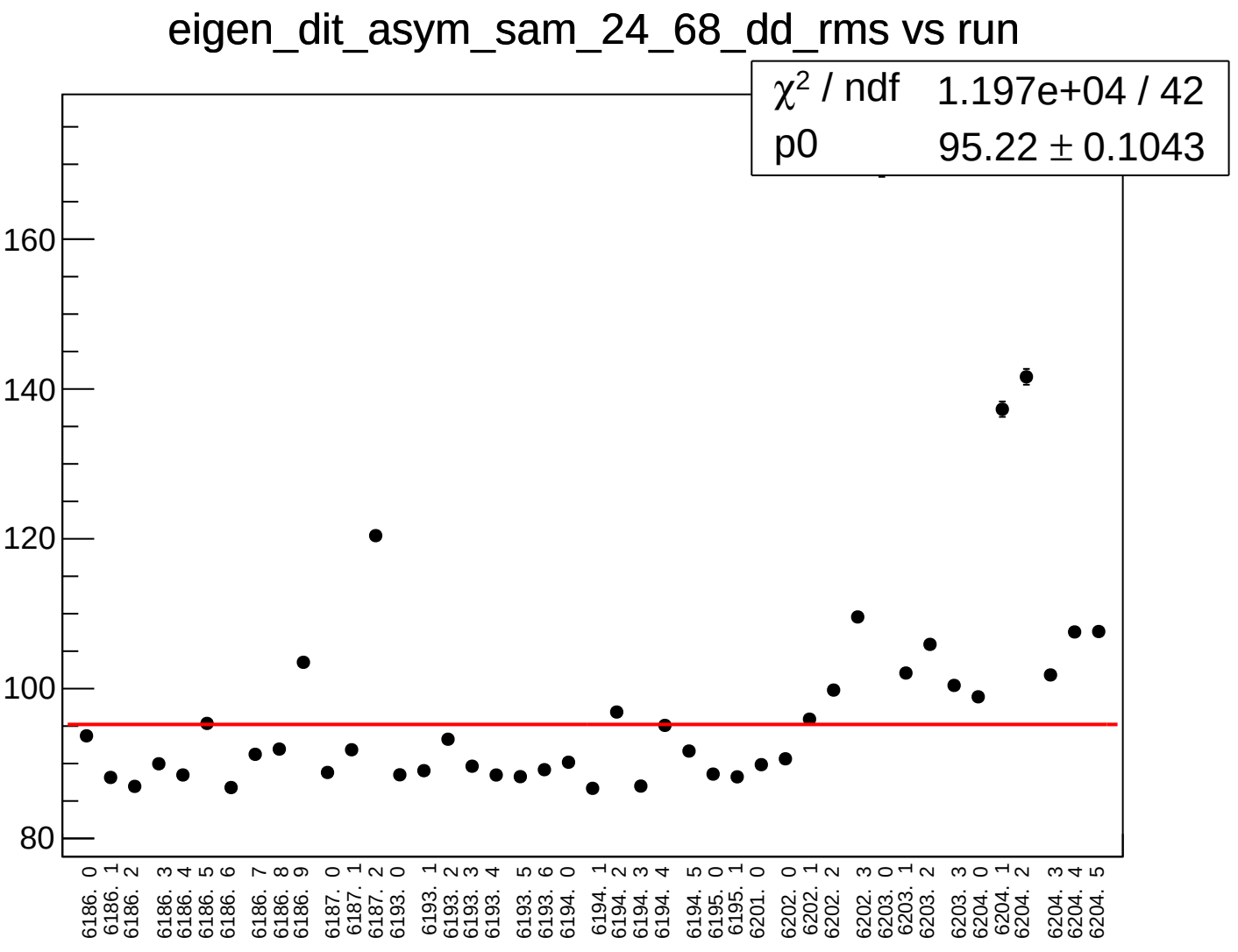

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.197e+04 / 42
p0 95.22 ± 0.1043
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

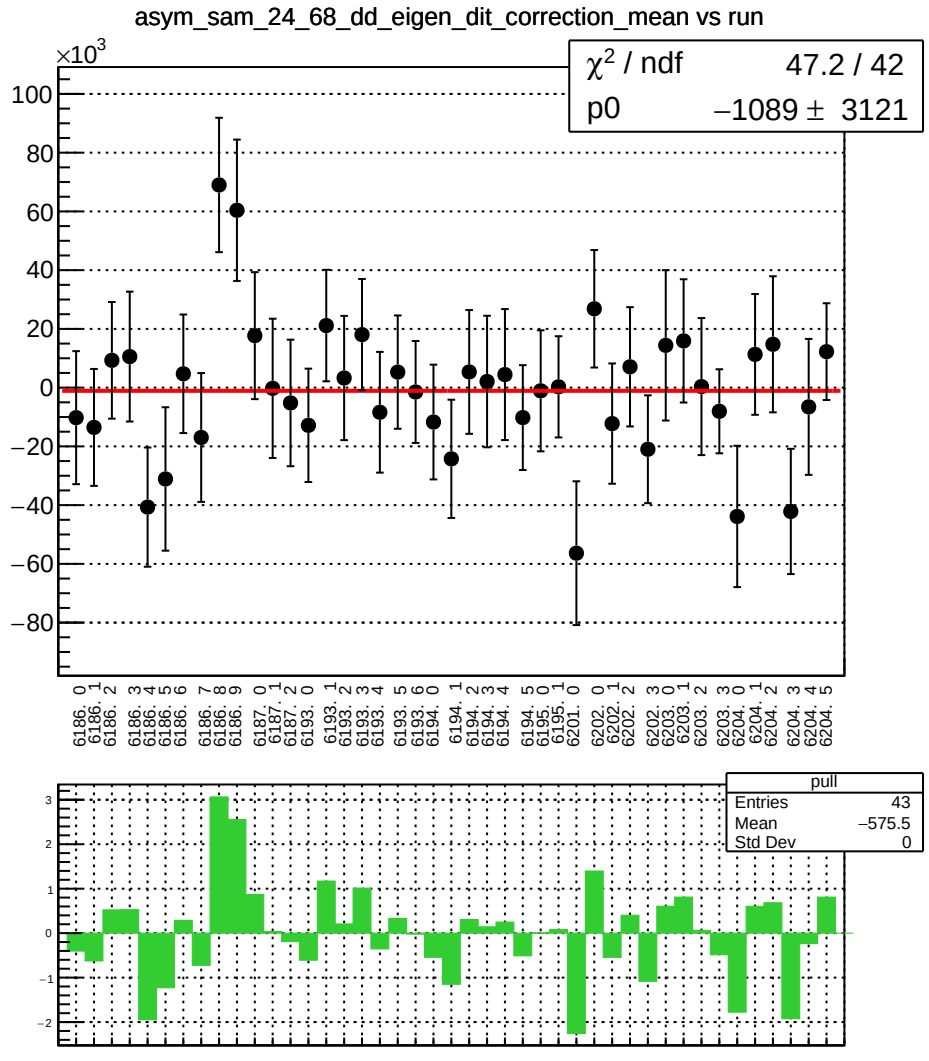

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 47.2 / 42
p0 −1089 ± 3121
100
80
60
40
20
0
−20
−40
−60
−80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −575.5
Std Dev 0
3
2
1
0
−1
−2

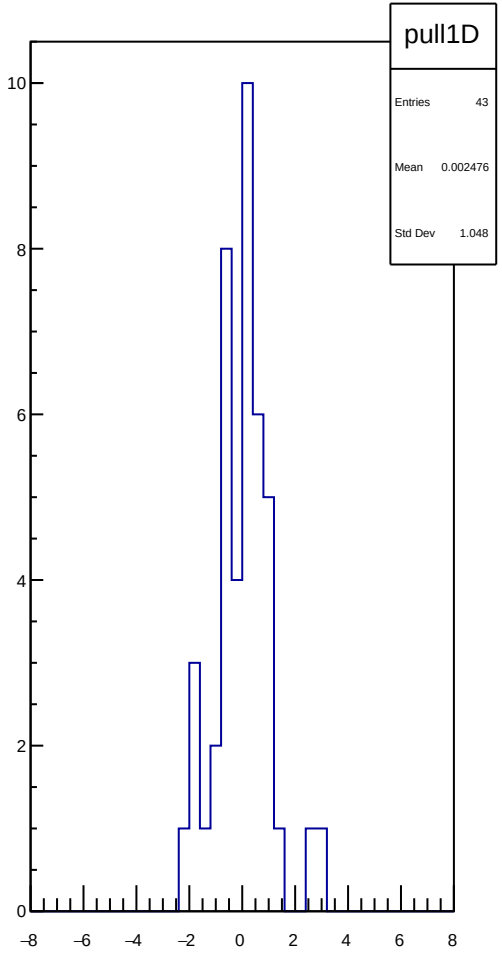

pull1D
Entries 43
Mean 0.002476
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

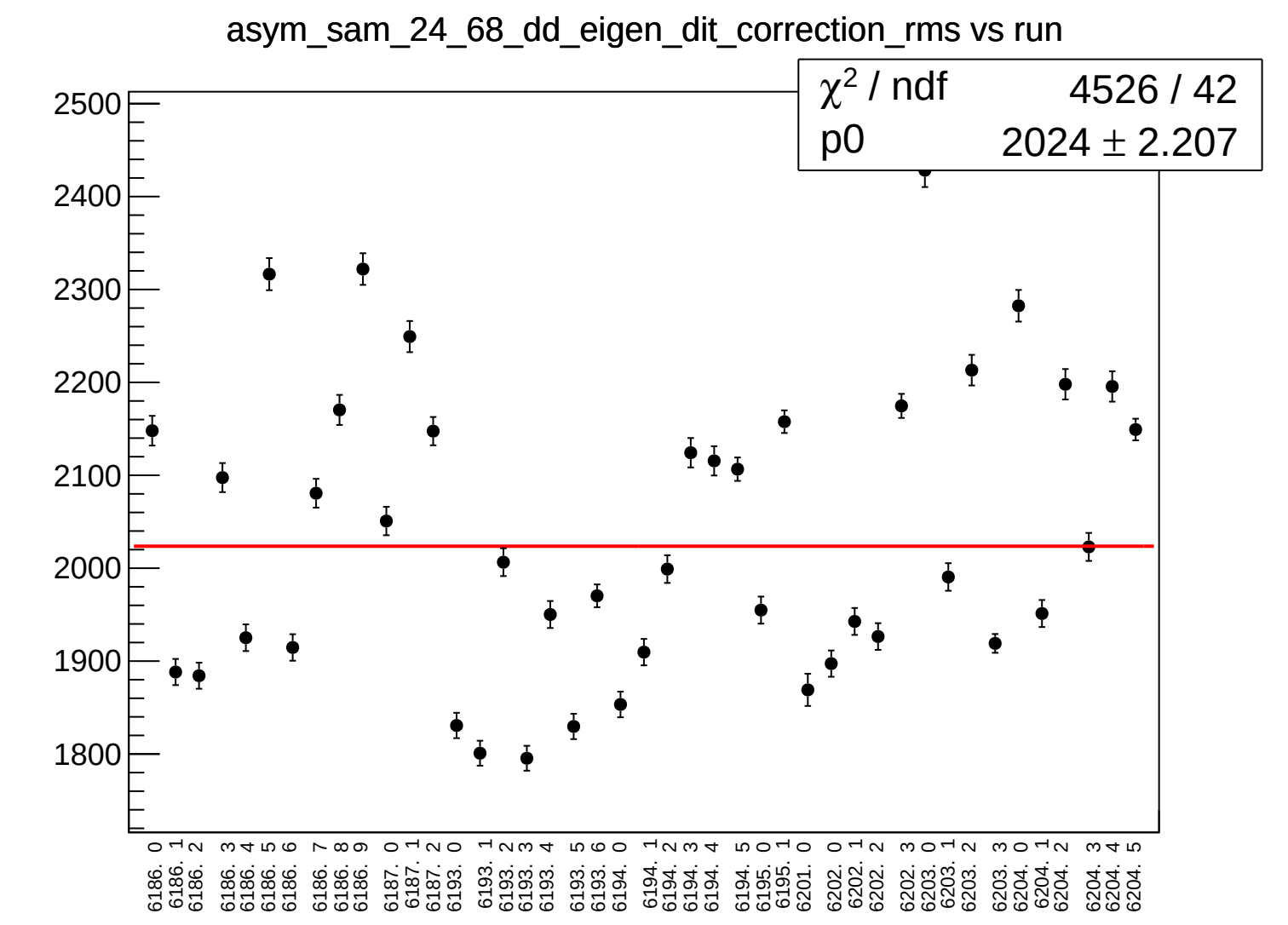

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 4526 / 42
p0 2024 ± 2.207
2500
2400
2300
2200
2100
2000
1900
1800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

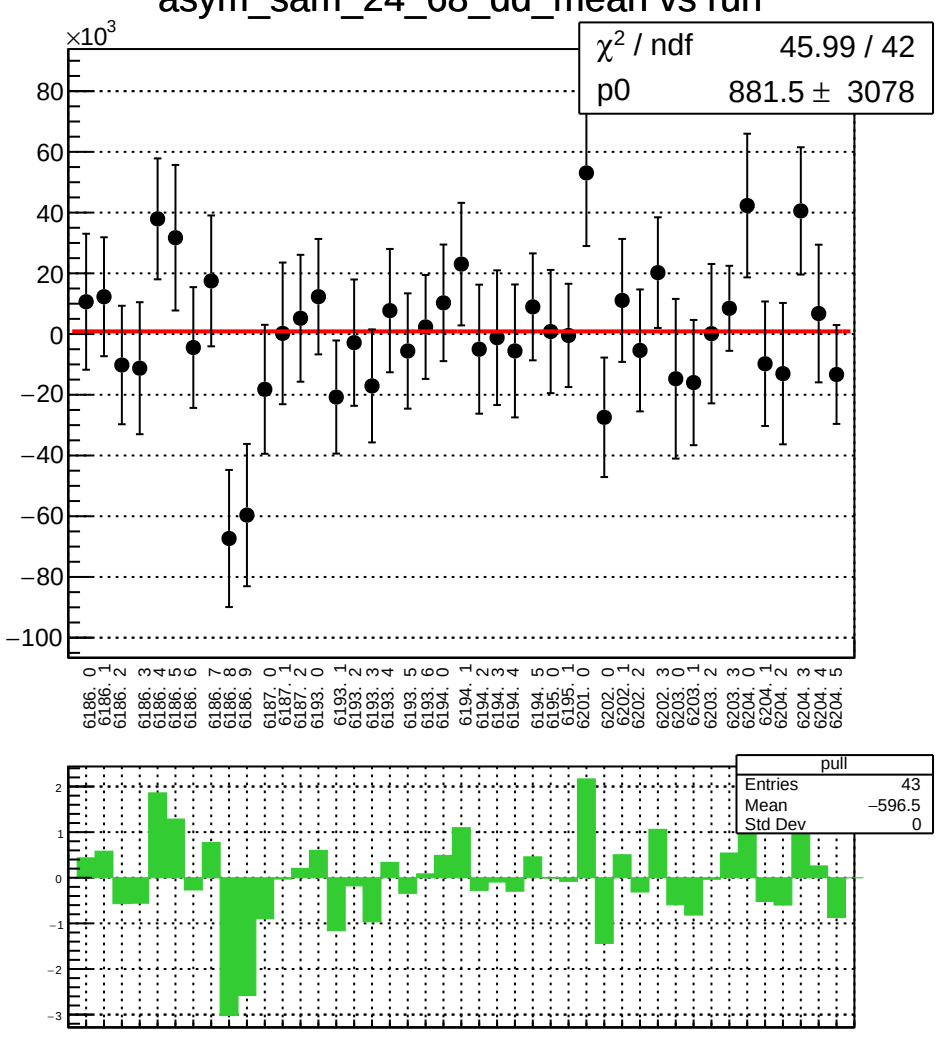

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 48.16 / 42
p0 −249.1± 147.5
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −4.678
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01614
Std Dev 1.058
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

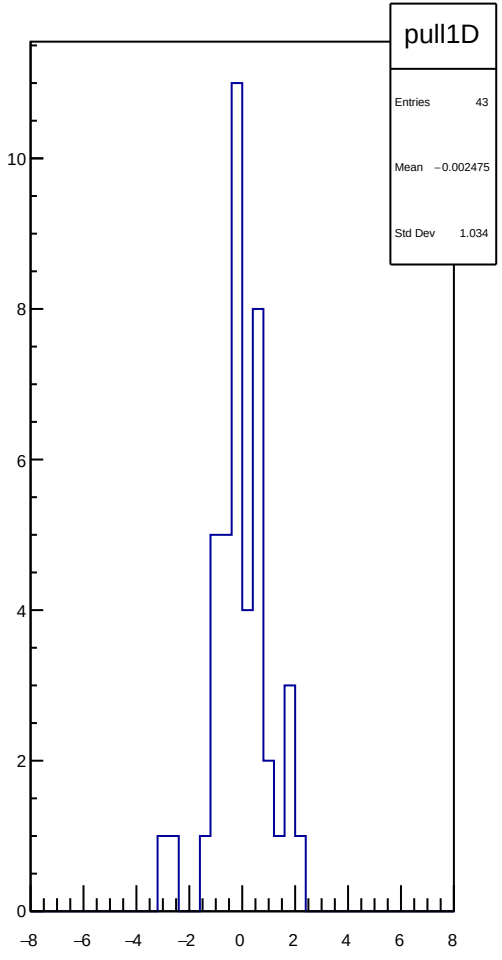

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.197e+04 / 42
p0 95.22 ± 0.1043
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

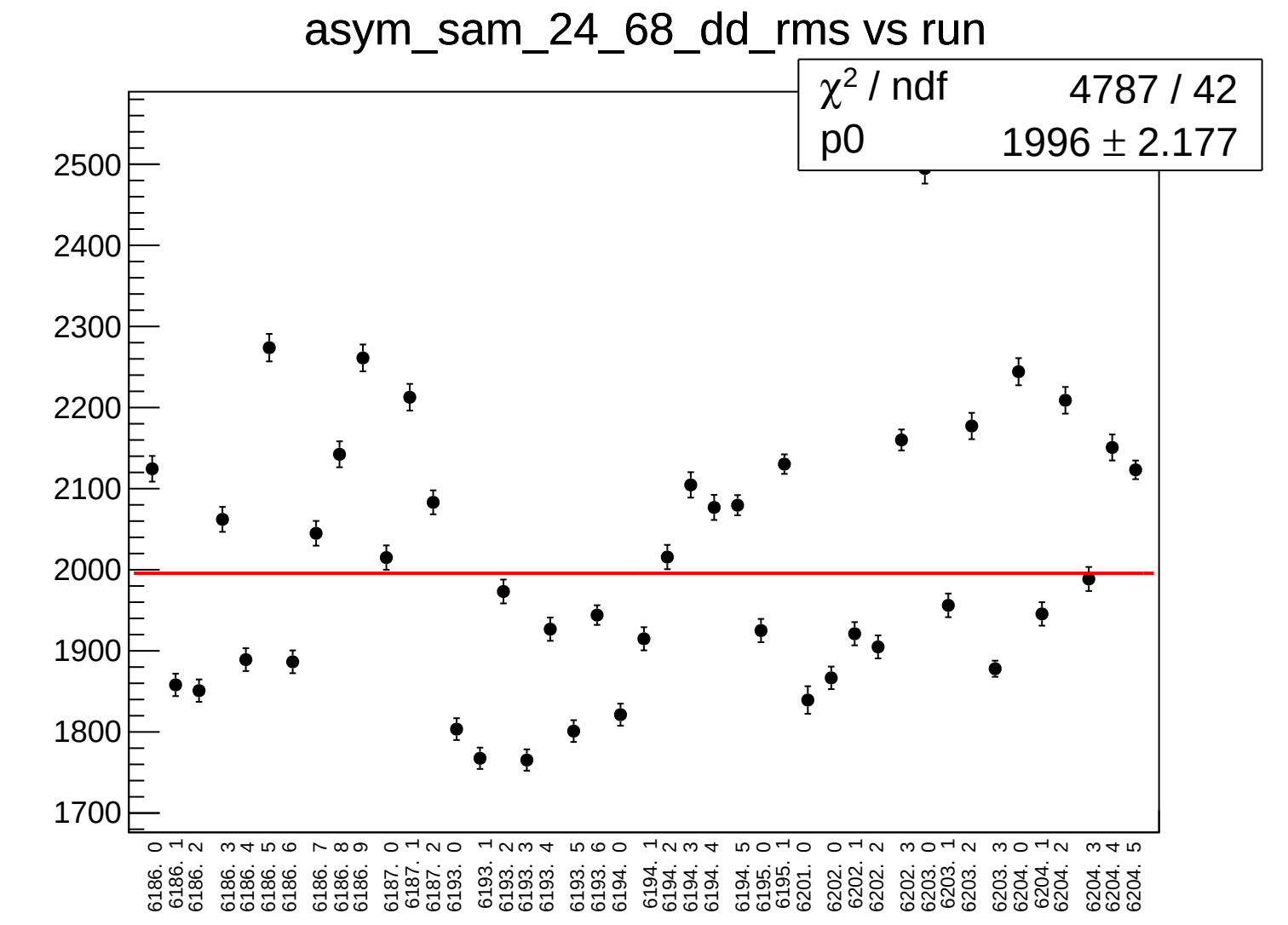

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 47.2 / 42
p0 −1089 ± 3121
100
80
60
40
20
0
−20
−40
−60
−80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −575.5
Std Dev 0
3
2
1
0
−1
−2

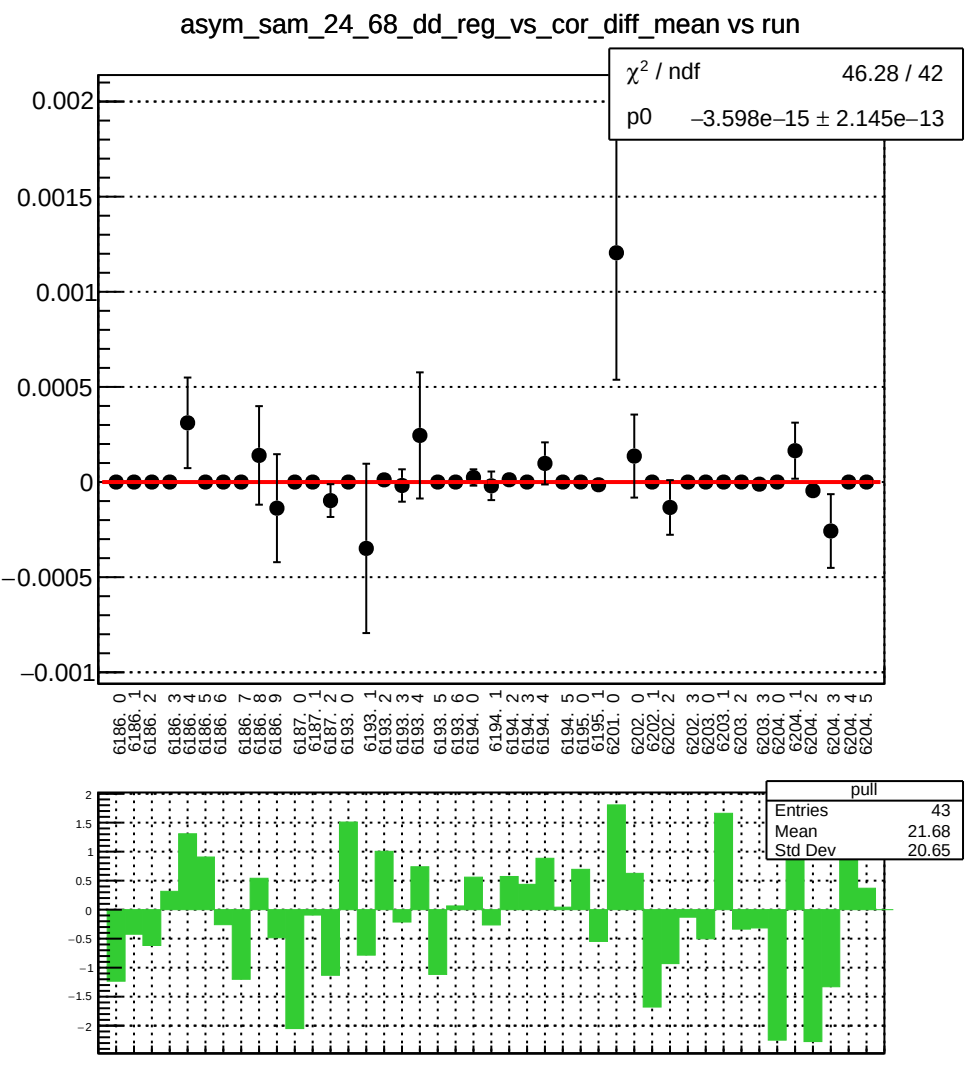

pull1D
Entries 43
Mean 0.002476
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

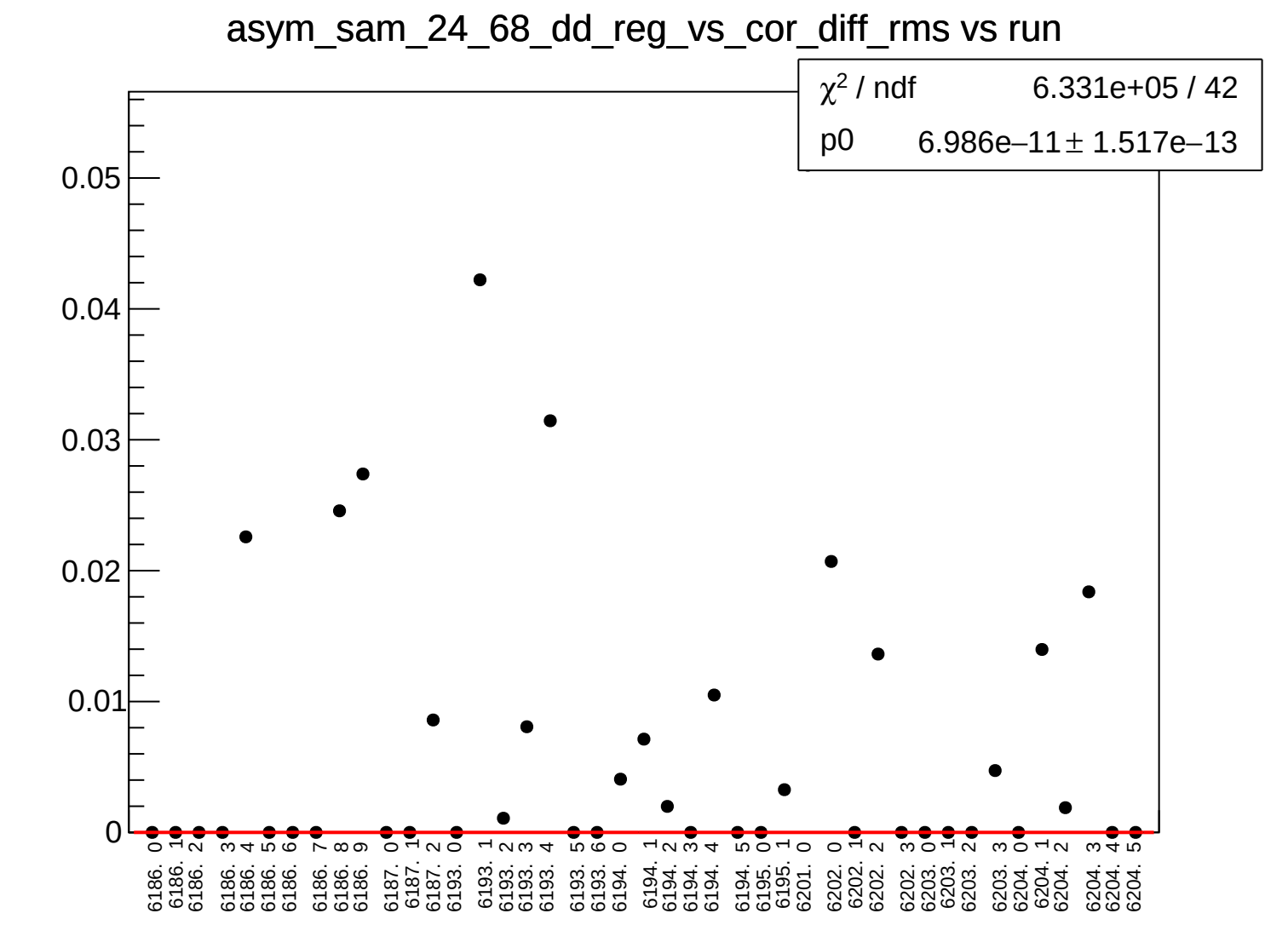

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 4526 / 42
p0 2024 ± 2.207
2500
2400
2300
2200
2100
2000
1900
1800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

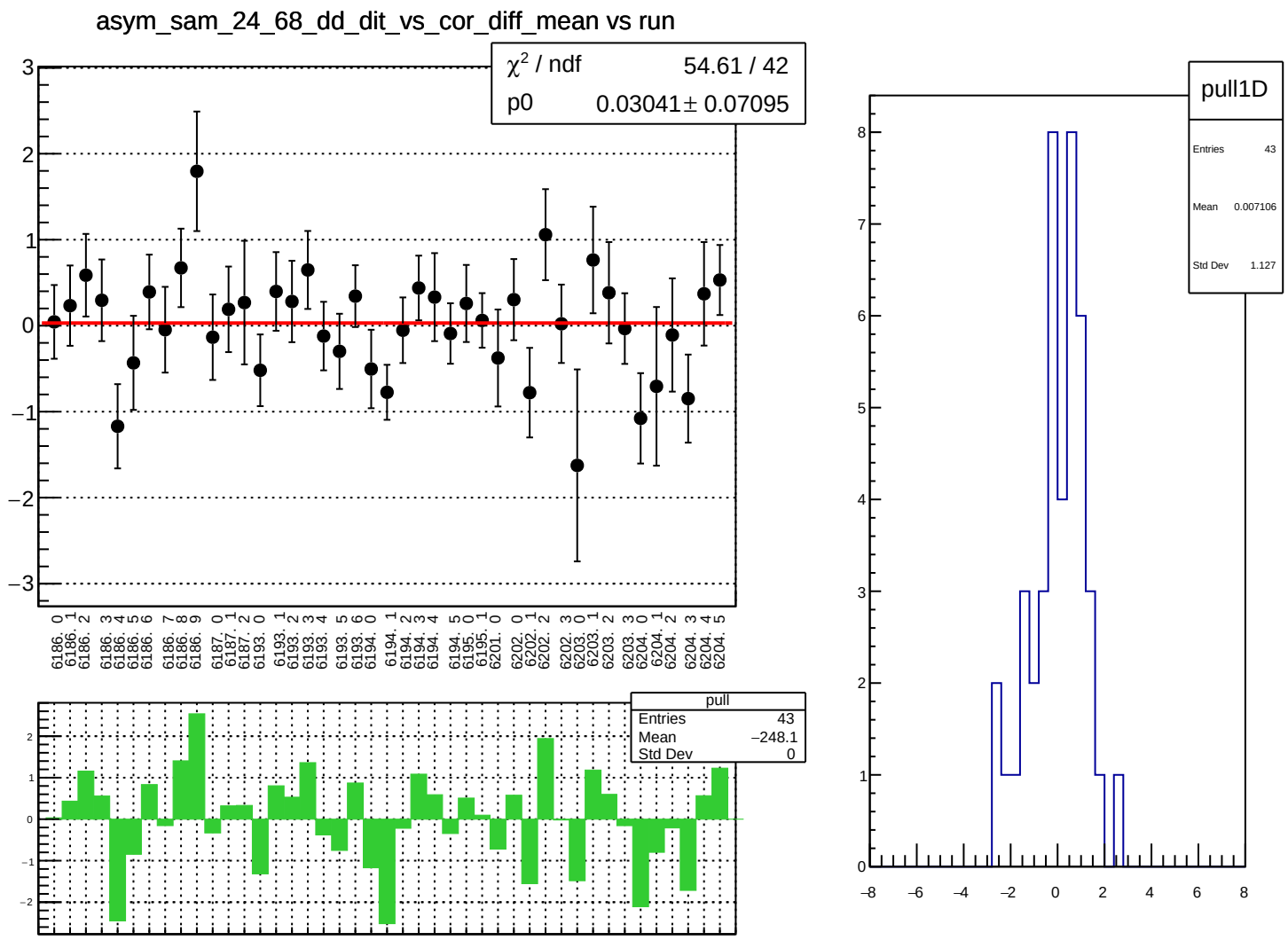

asym_sam_24_68_dd_mean vs run
χ² / ndf 45.99 / 42
p0 881.5 ± 3078
×10³
pull
Entries 43
Mean −596.5
Std Dev 0

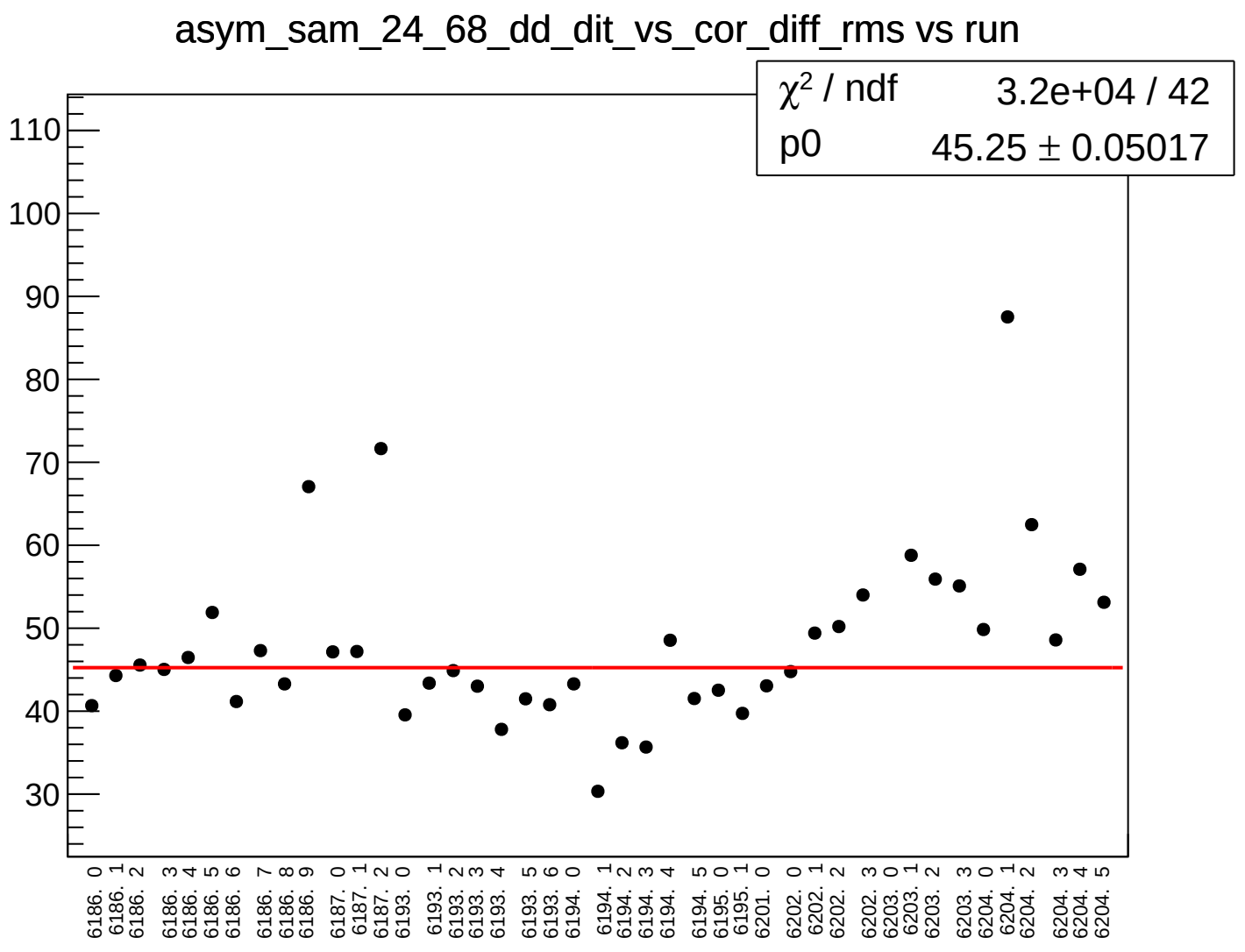

pull1D
Entries 43
Mean −0.002475
Std Dev 1.034

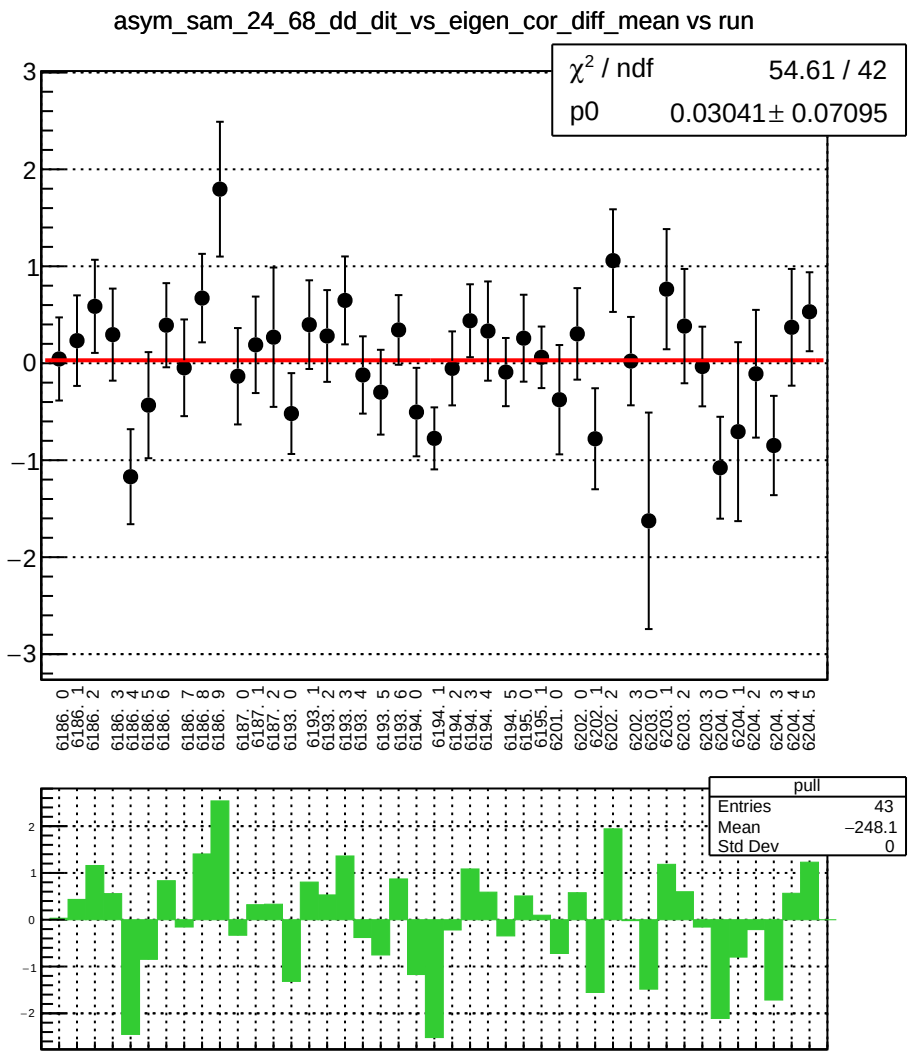

asym_sam_24_68_dd_rms vs run
χ² / ndf 4787 / 42
p0 1996 ± 2.177
2500
2400
2300
2200
2100
2000
1900
1800
1700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

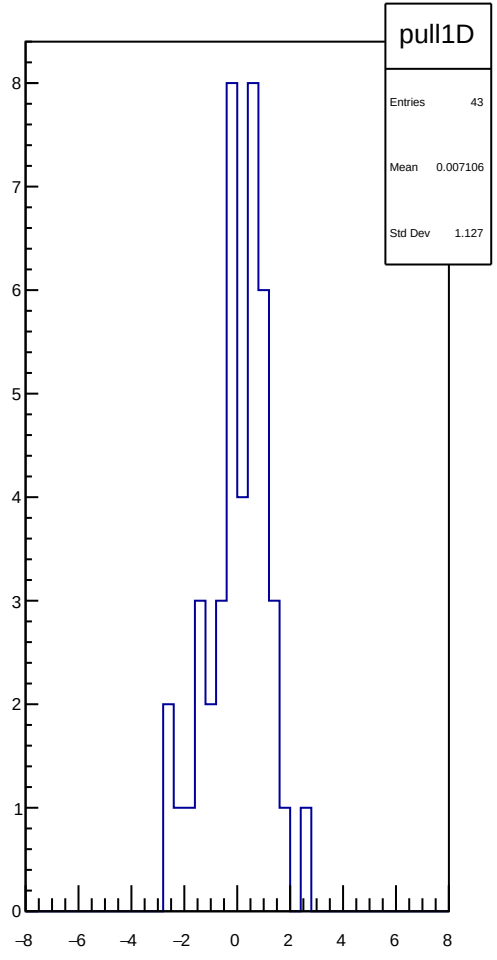

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 46.28 / 42
p0 −3.598e−15 ± 2.145e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 21.68
Std Dev 20.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.08433
Std Dev 1.034
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

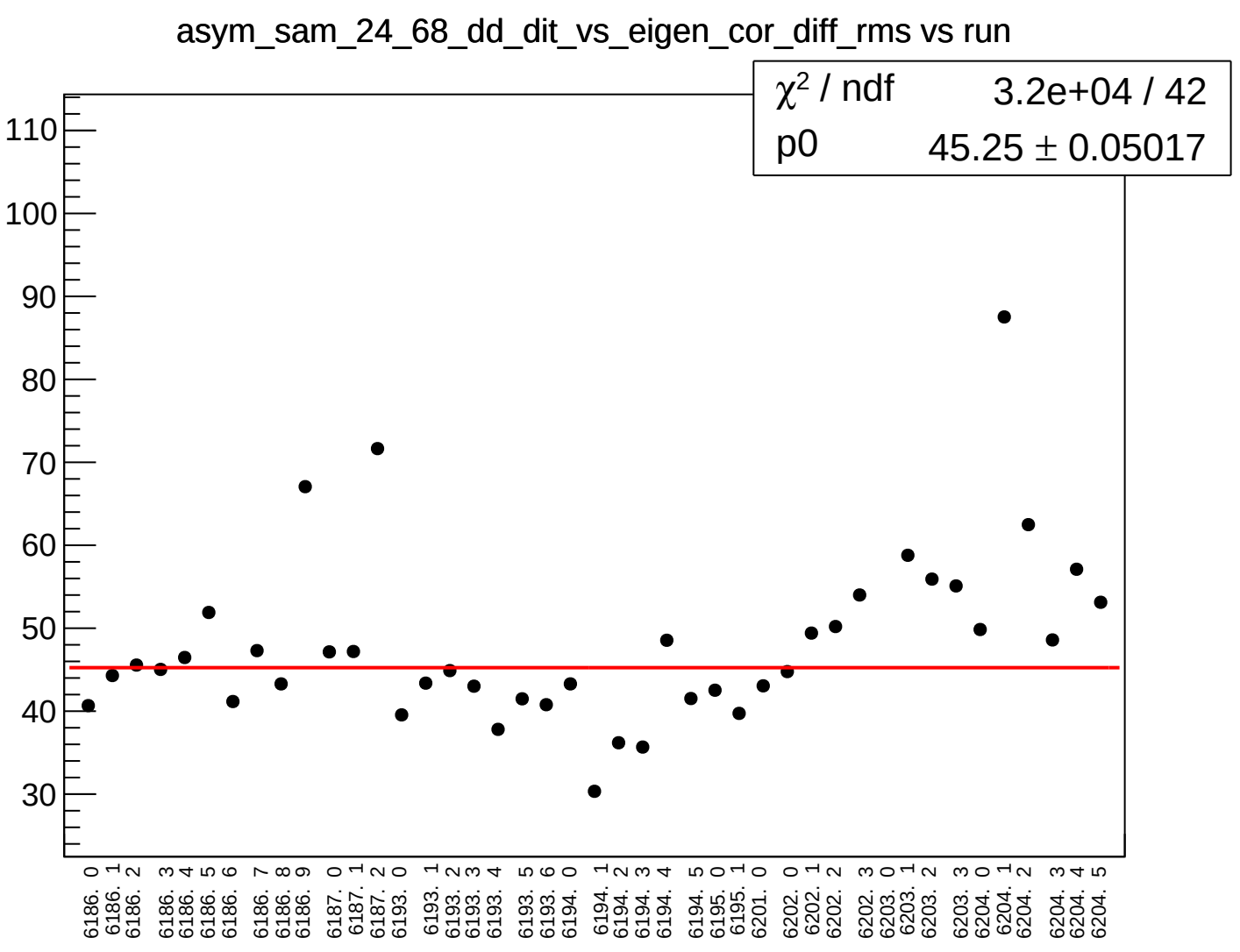

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 6.331e+05 / 42
p0 6.986e−11 ± 1.517e−13
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

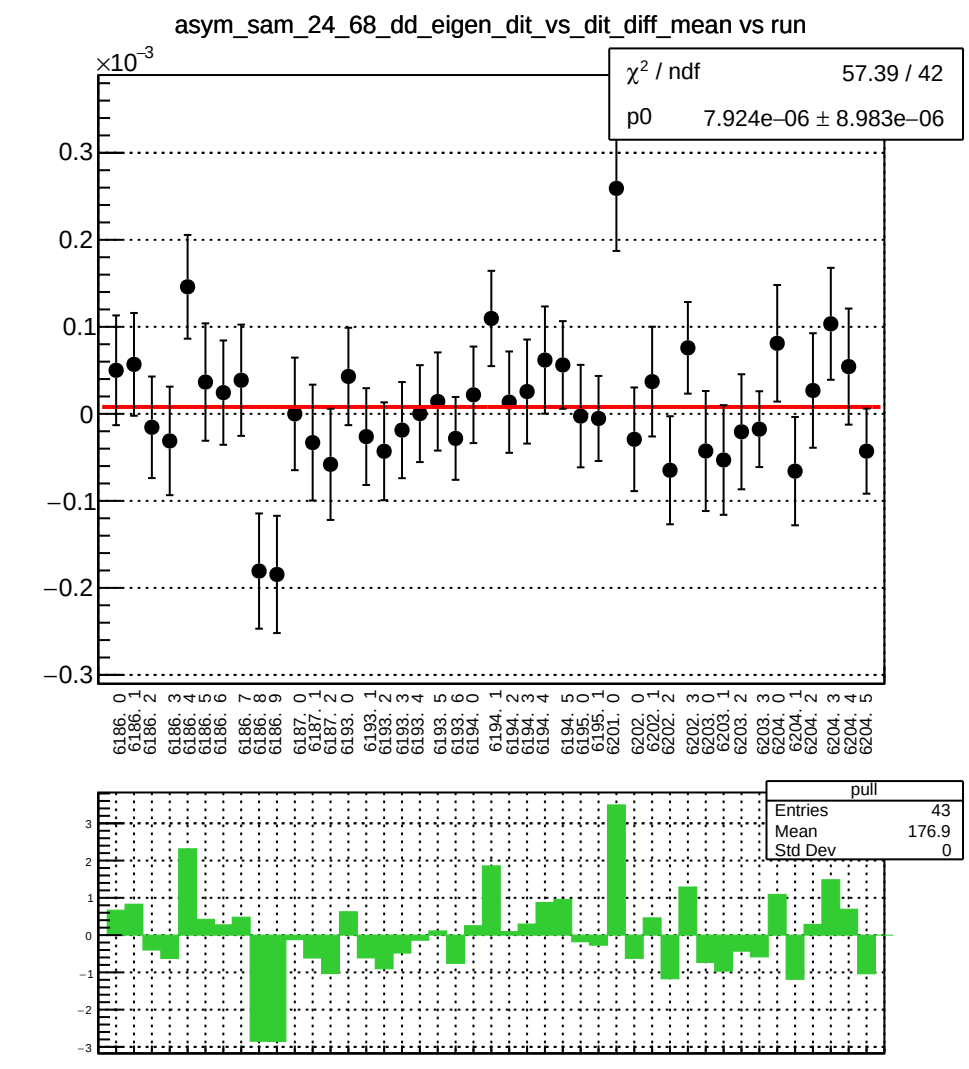

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 54.61 / 42
p0 0.03041 ± 0.07095
pull
Entries 43
Mean −248.1
Std Dev 0
pull1D
Entries 43
Mean 0.007106
Std Dev 1.127

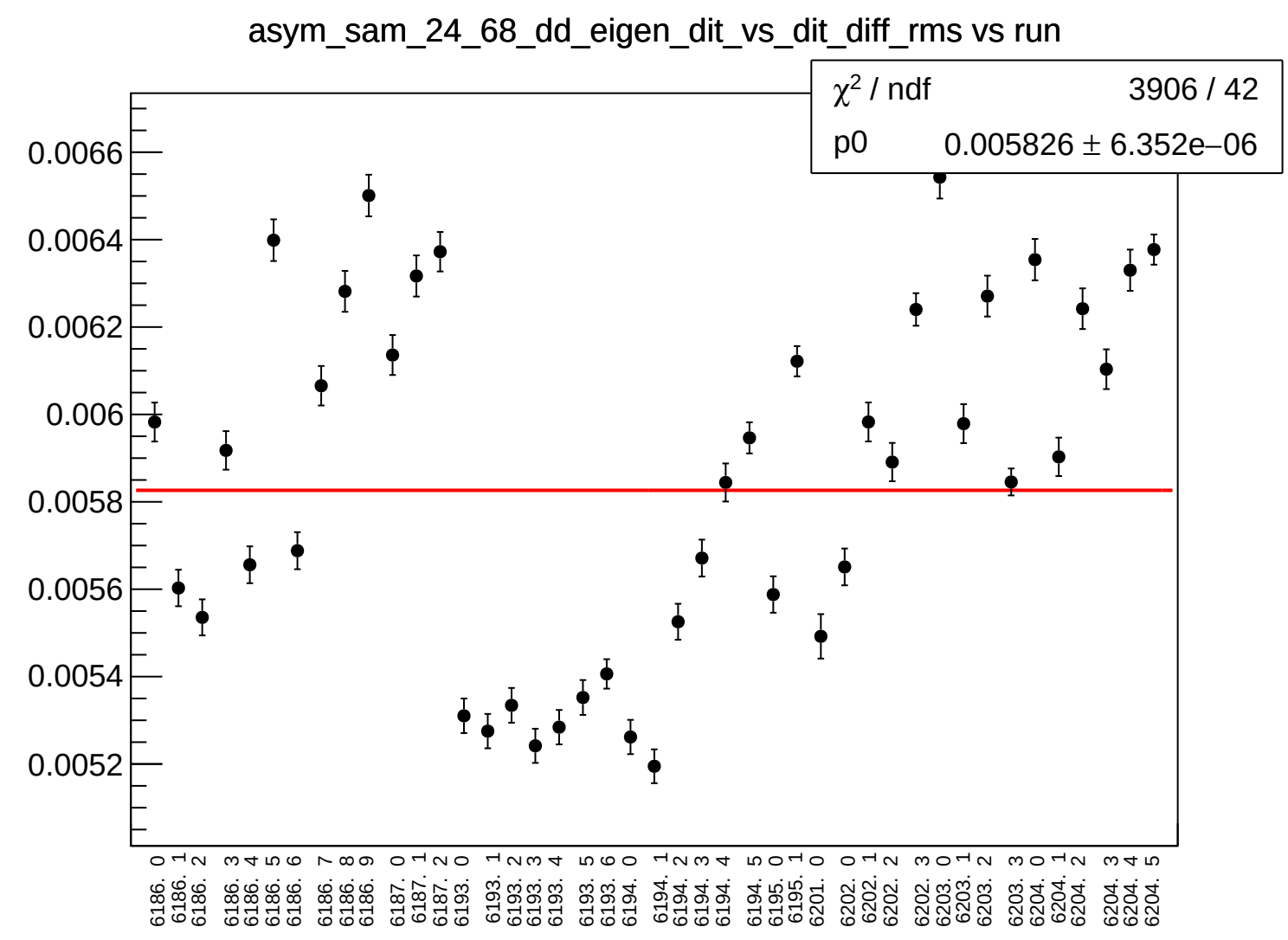

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.2e+04 / 42
p0 45.25 ± 0.05017
110
100
90
80
70
60
50
40
30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

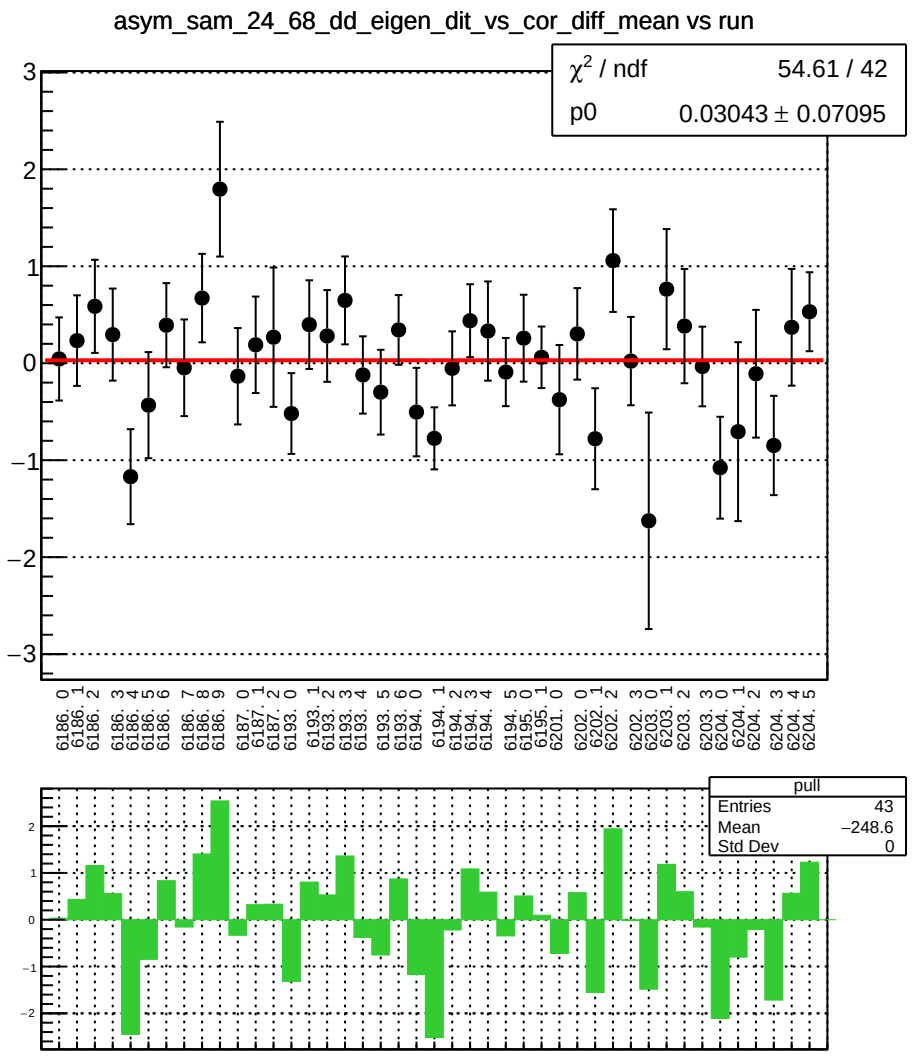

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.61 / 42
p0 0.03041 ± 0.07095
3
2
1
0
−1
−2
−3
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −248.1
Std Dev 0
2
1
0
−1
−2

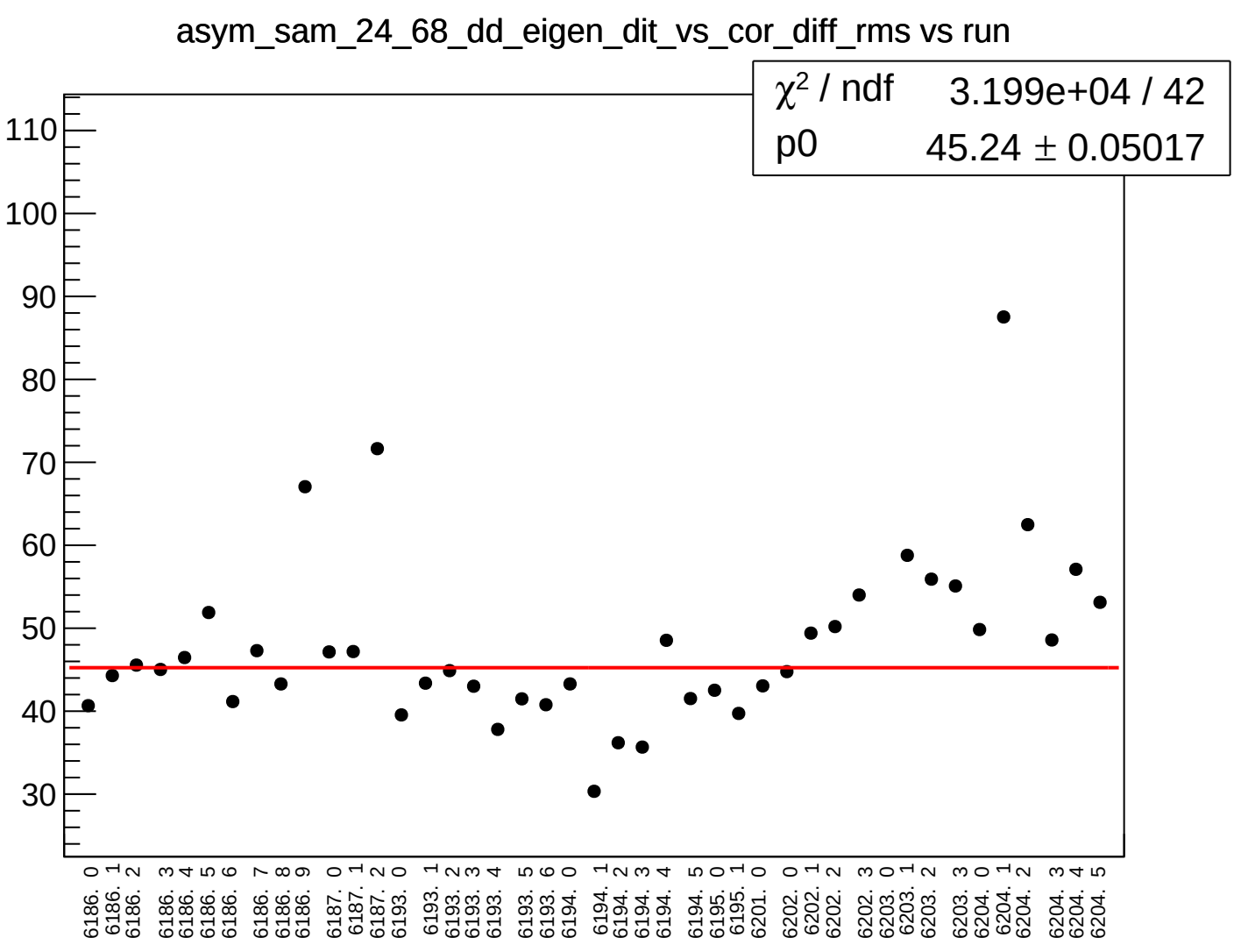

pull1D
Entries 43
Mean 0.007106
Std Dev 1.127
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

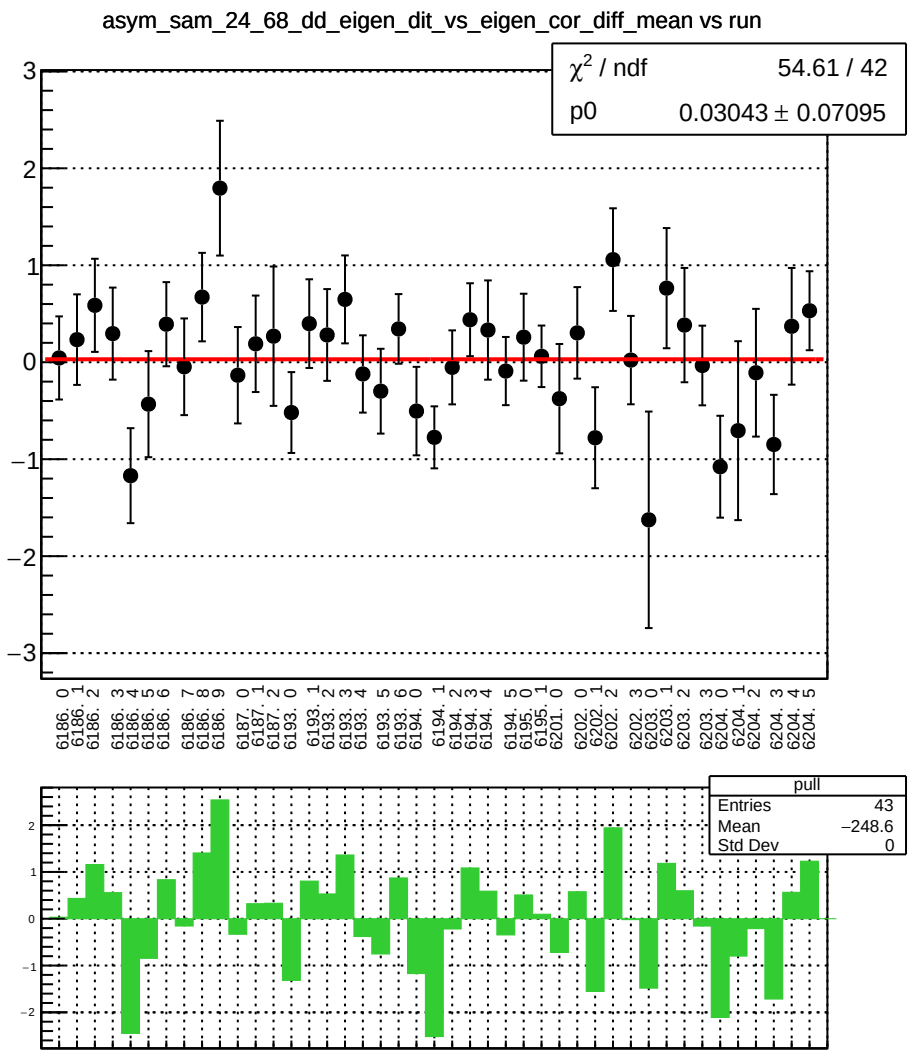

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.2e+04 / 42
p0 45.25 ± 0.05017
110
100
90
80
70
60
50
40
30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

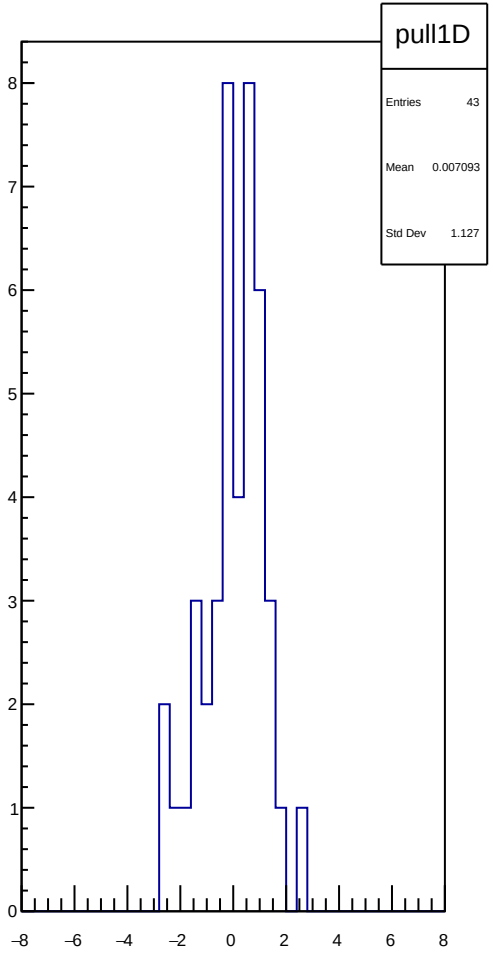

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 57.39 / 42
p0 7.924e−06 ± 8.983e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 176.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.00678
Std Dev 1.155
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

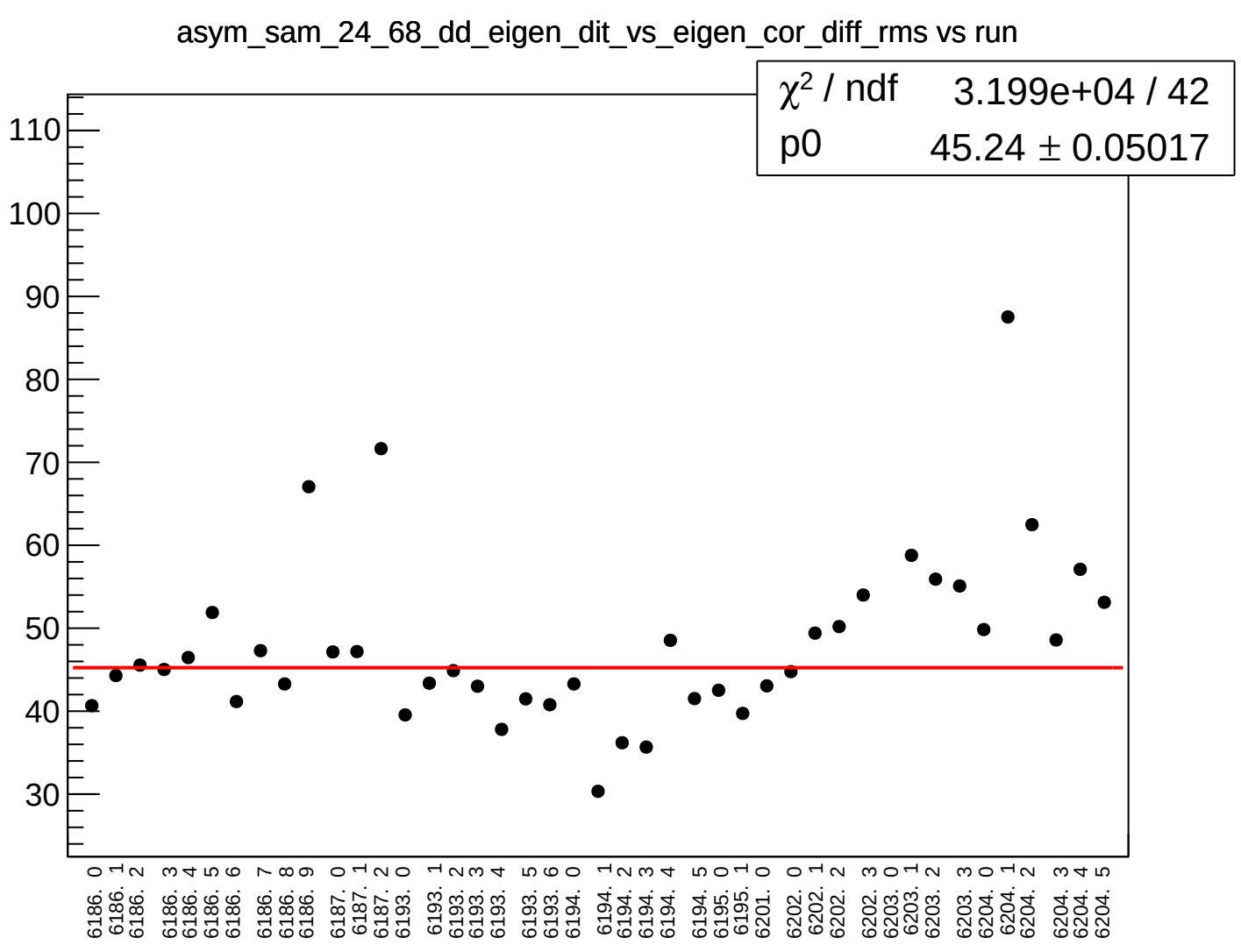

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3906 / 42
p0 0.005826 ± 6.352e−06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

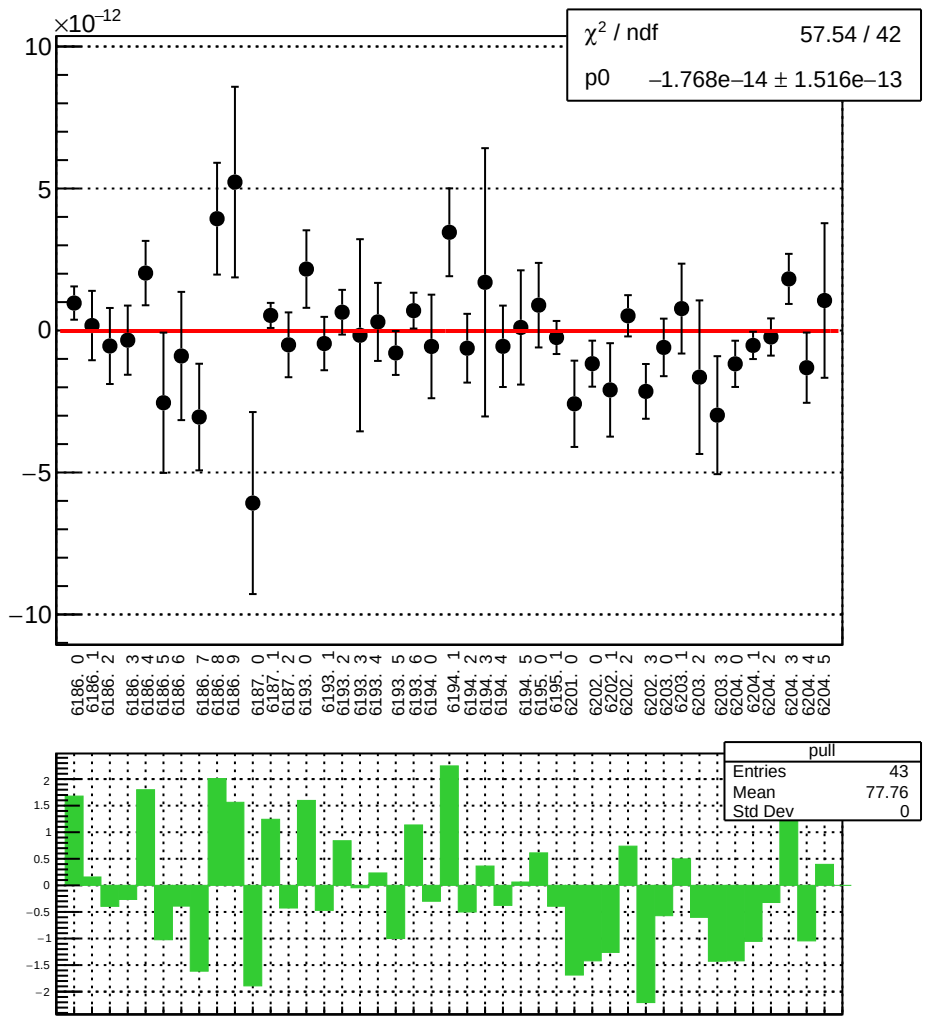

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 54.61 / 42
p0 0.03043 ± 0.07095
pull
Entries 43
Mean −248.6
Std Dev 0
pull1D
Entries 43
Mean 0.007093
Std Dev 1.127

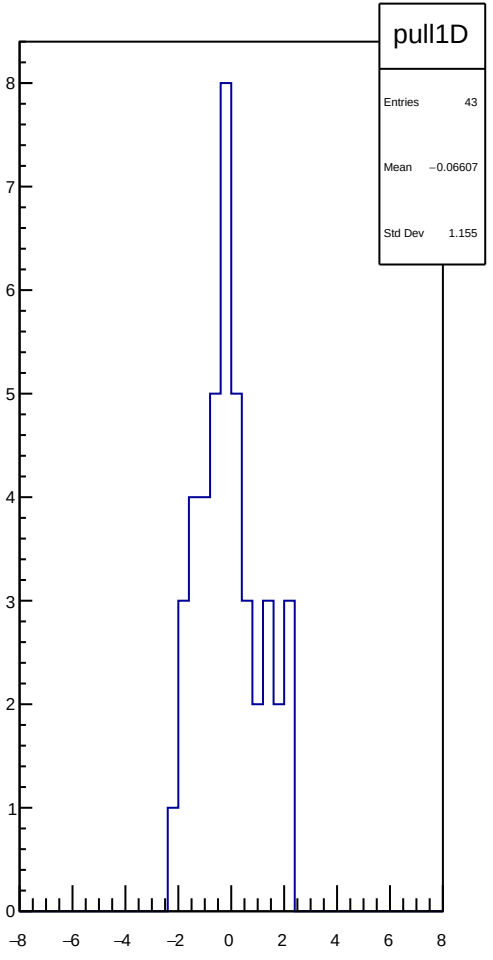

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.199e+04 / 42
p0 45.24 ± 0.05017
110
100
90
80
70
60
50
40
30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

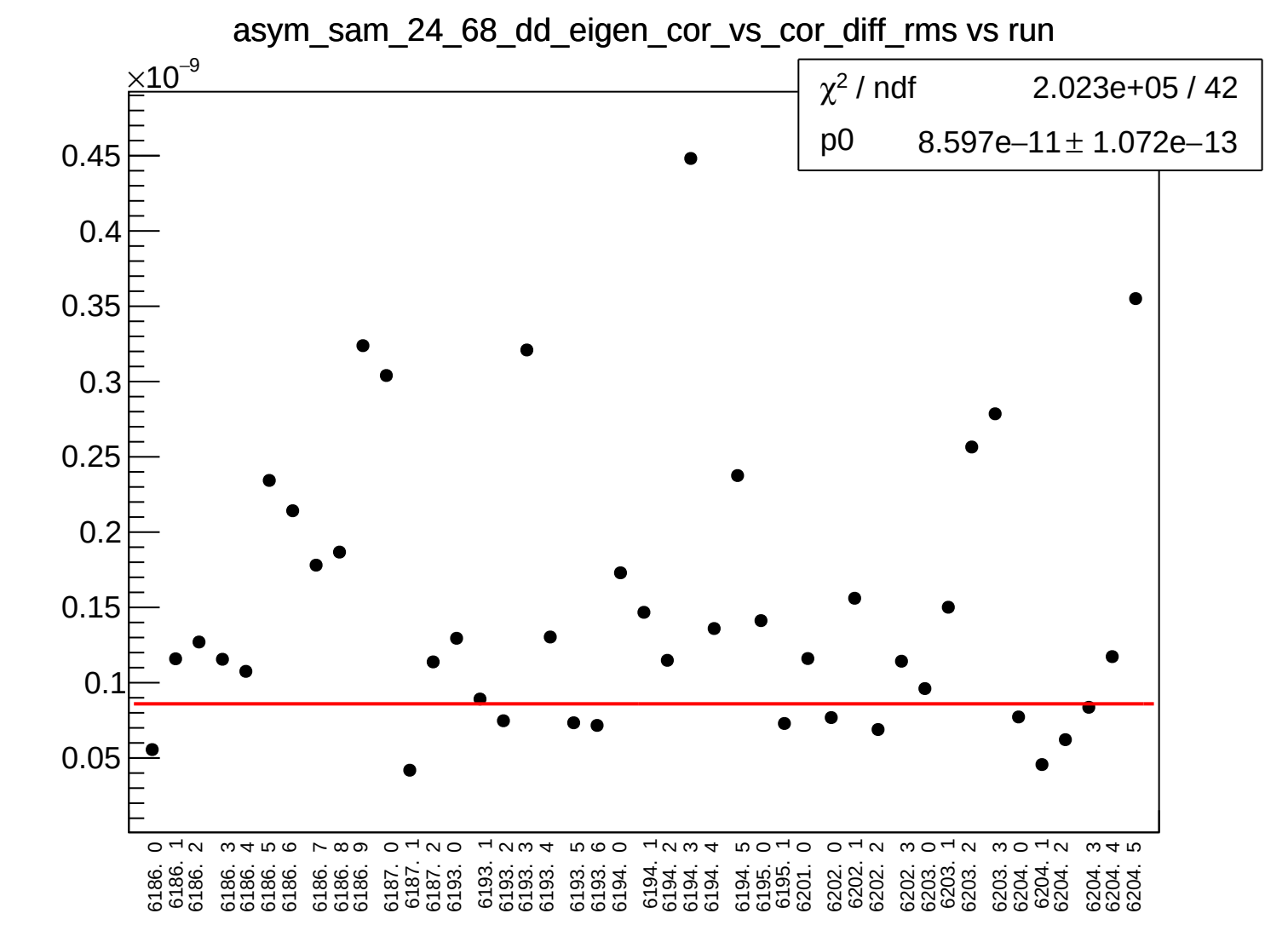

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 54.61 / 42
p0 0.03043 ± 0.07095
3
2
1
0
−1
−2
−3
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −248.6
Std Dev 0
2
1
0
−1
−2

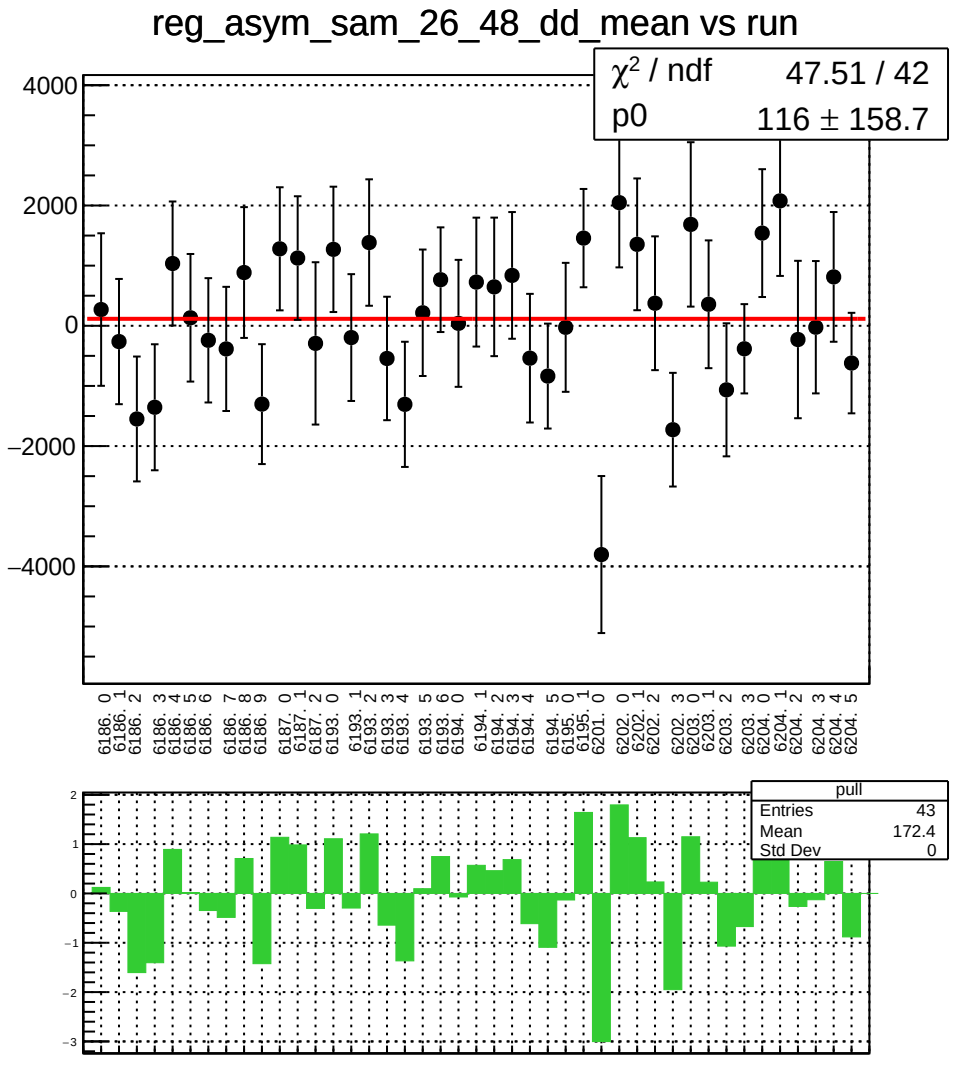

pull1D
Entries 43
Mean 0.007093
Std Dev 1.127
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

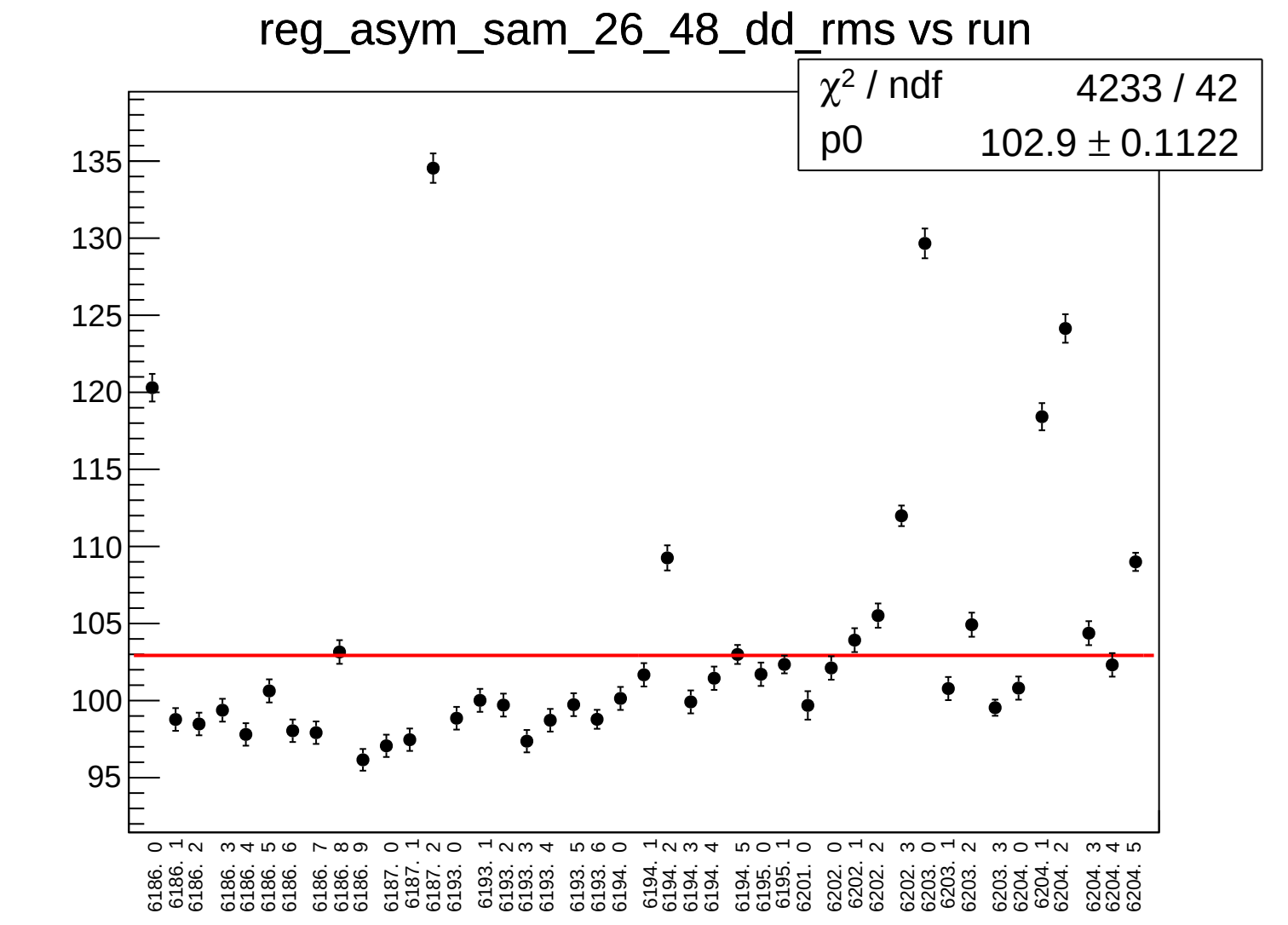

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.199e+04 / 42
p0 45.24 ± 0.05017
110
100
90
80
70
60
50
40
30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

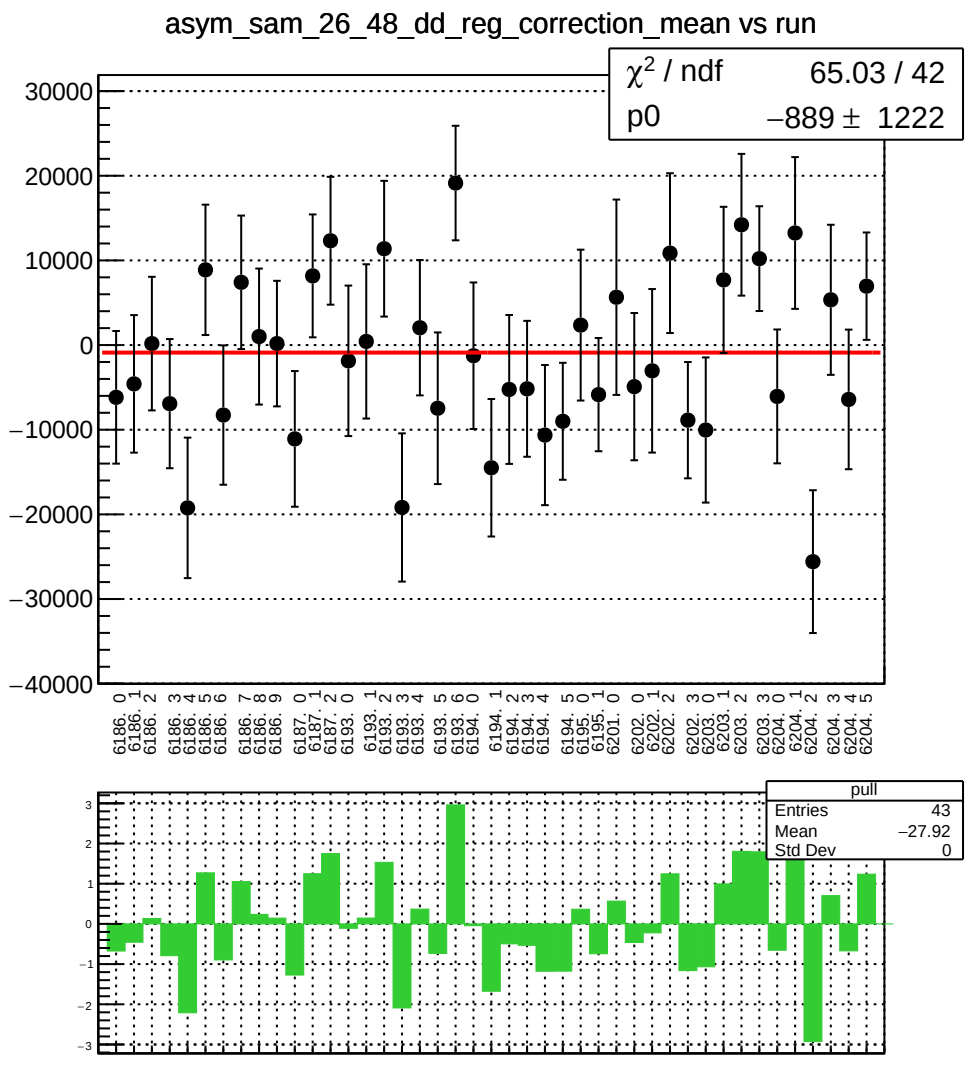

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 57.54 / 42
p0 −1.768e−14 ± 1.516e−13
pull
Entries 43
Mean 77.76
Std Dev 0

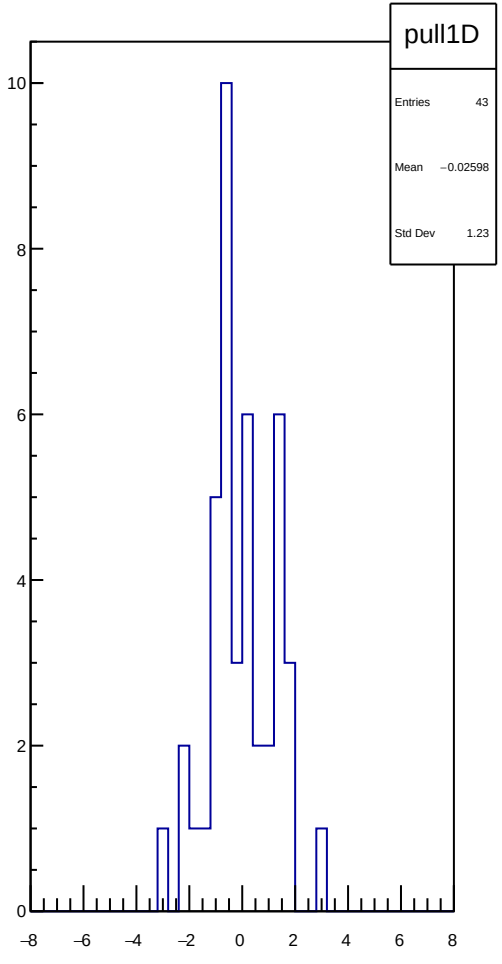

pull1D
Entries 43
Mean −0.06607
Std Dev 1.155

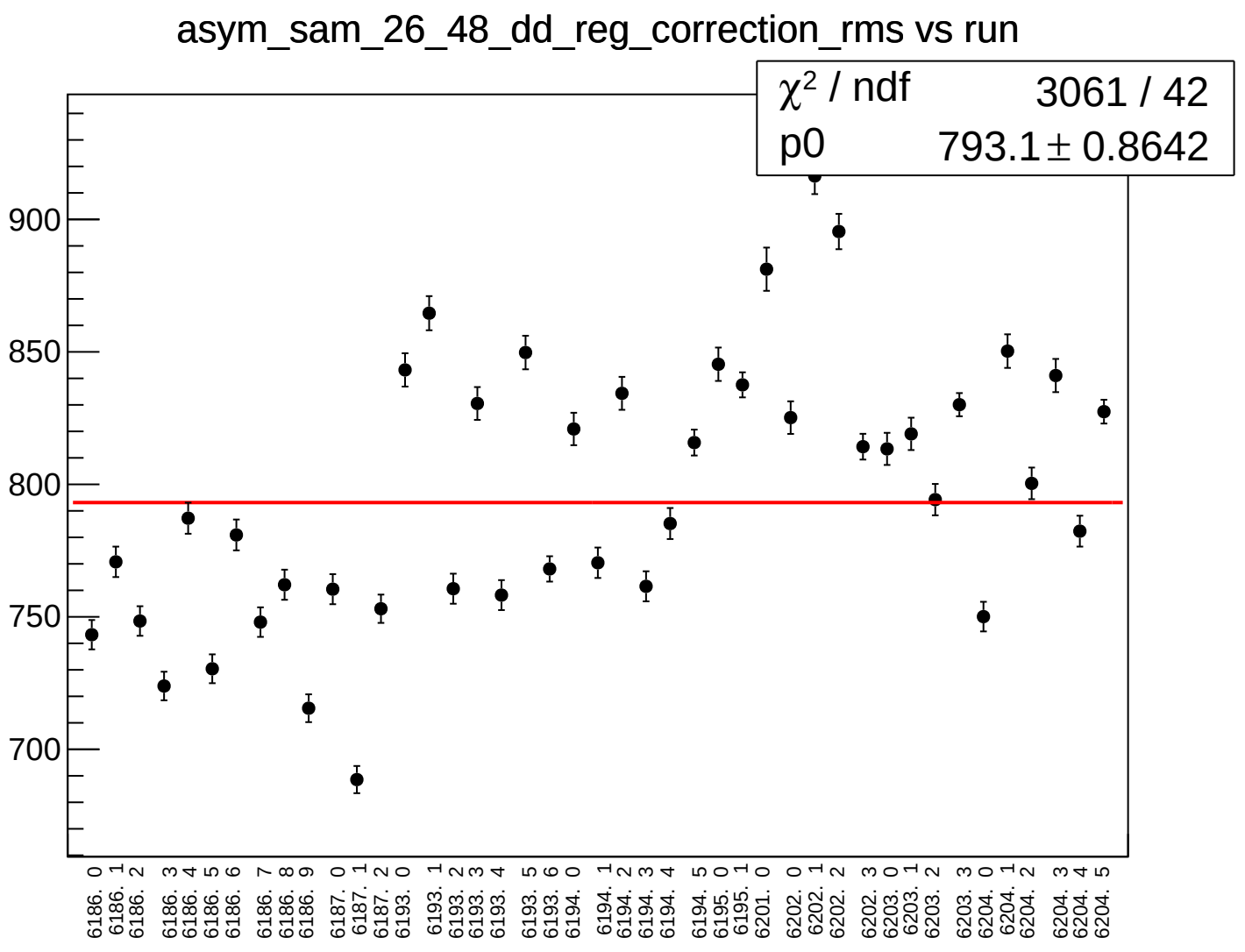

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.023e+05 / 42
p0 8.597e−11 ± 1.072e−13
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

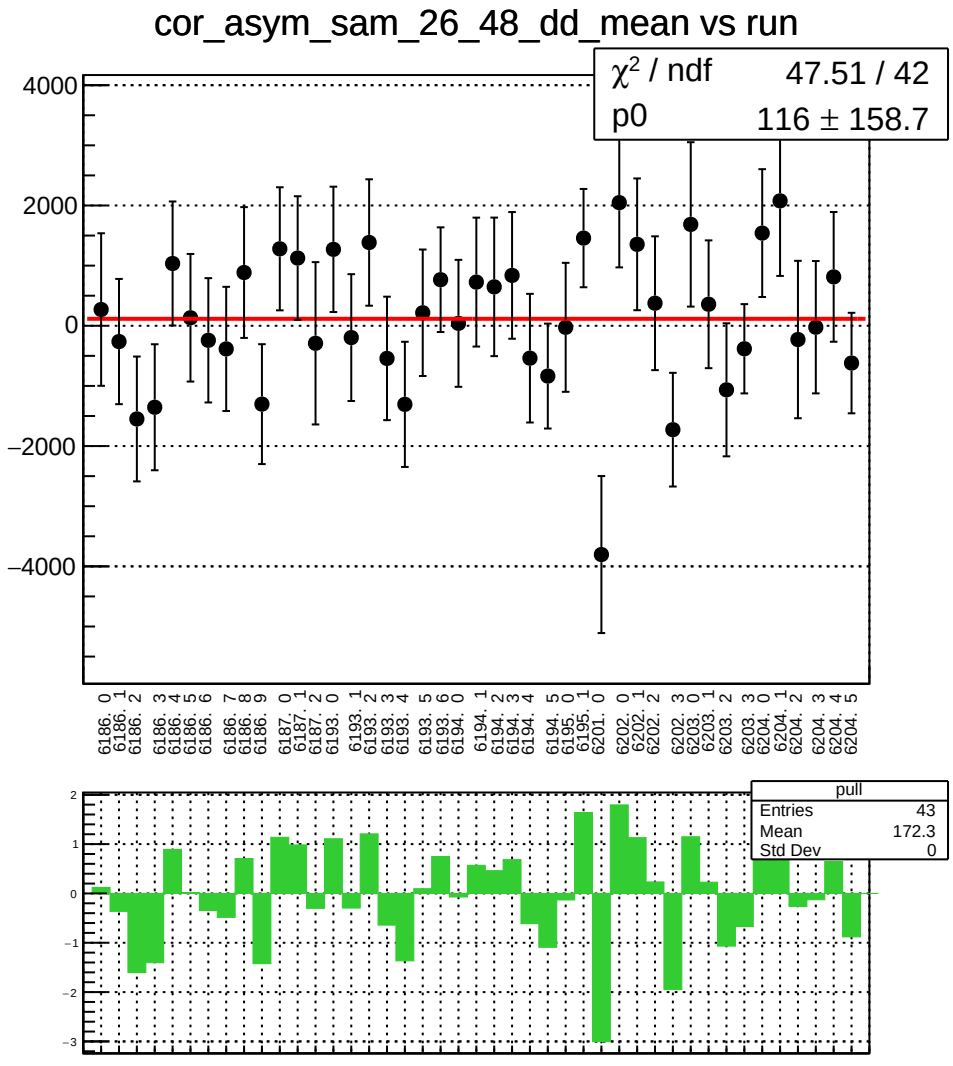

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 47.51 / 42
p0 116 ± 158.7
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 172.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.00841
Std Dev 1.051
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

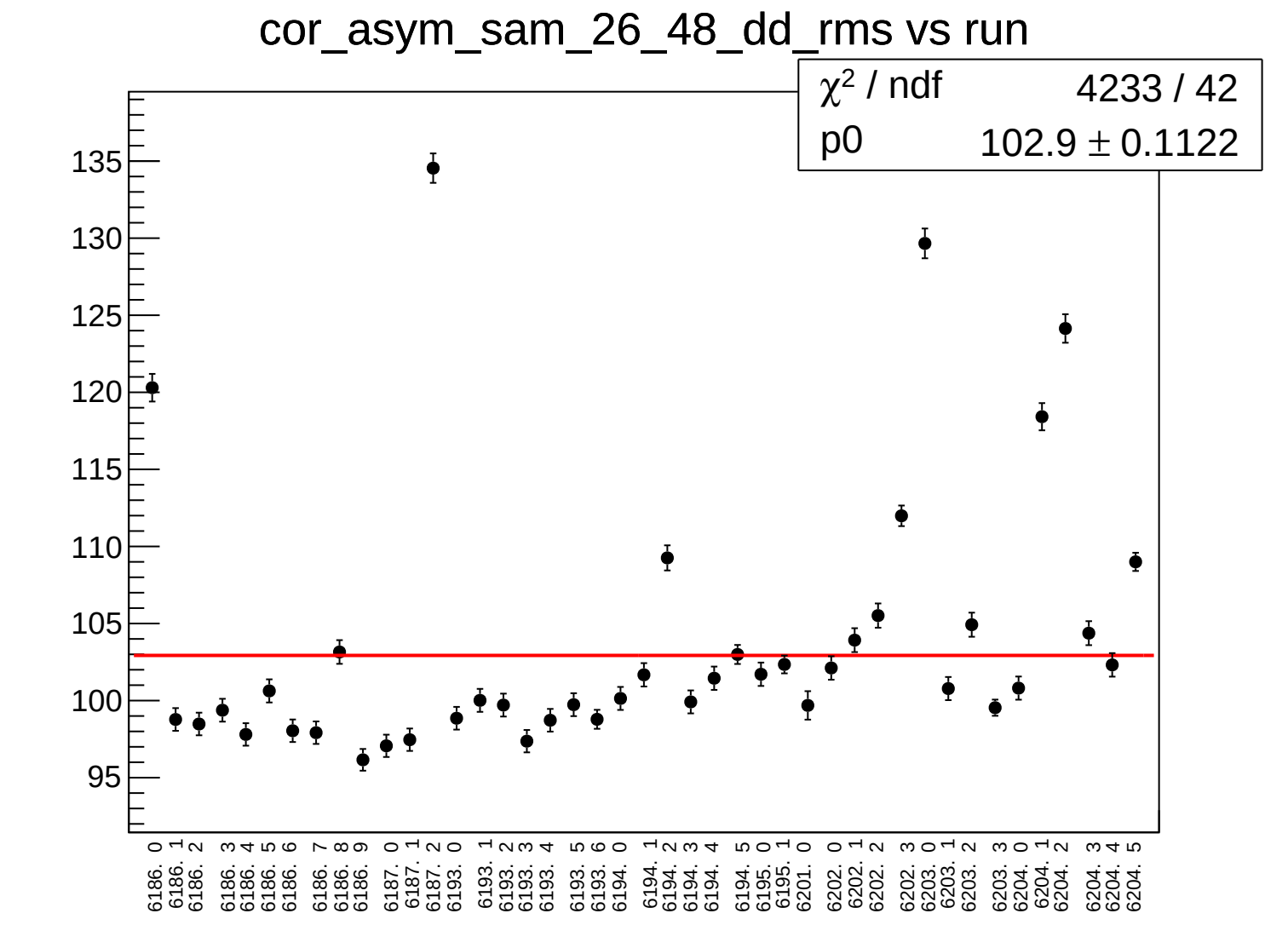

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 4233 / 42
p0 102.9 ± 0.1122
135
130
125
120
115
110
105
100
95
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

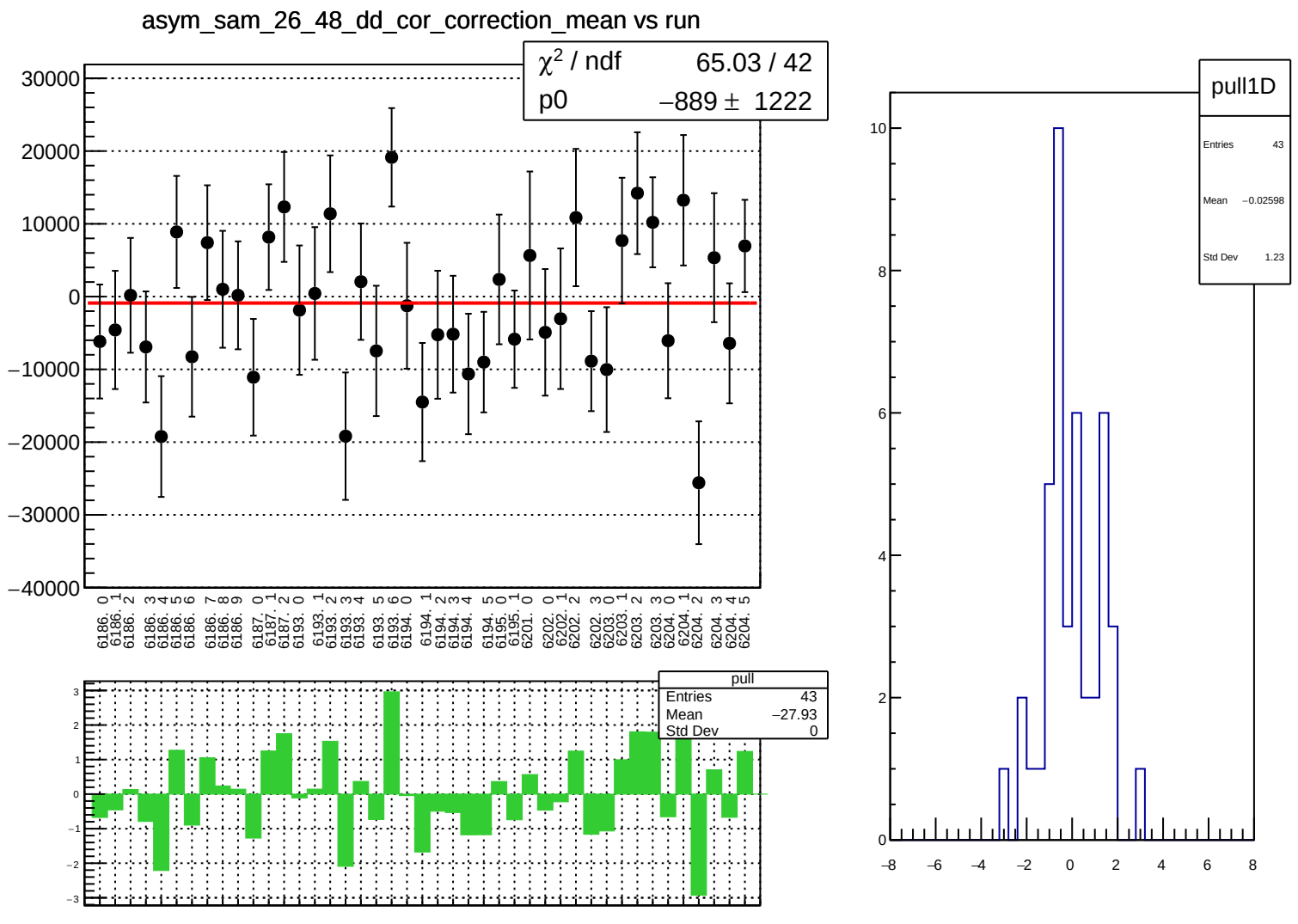

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 65.03 / 42
p0 −889 ± 1222
pull
Entries 43
Mean −27.92
Std Dev 0

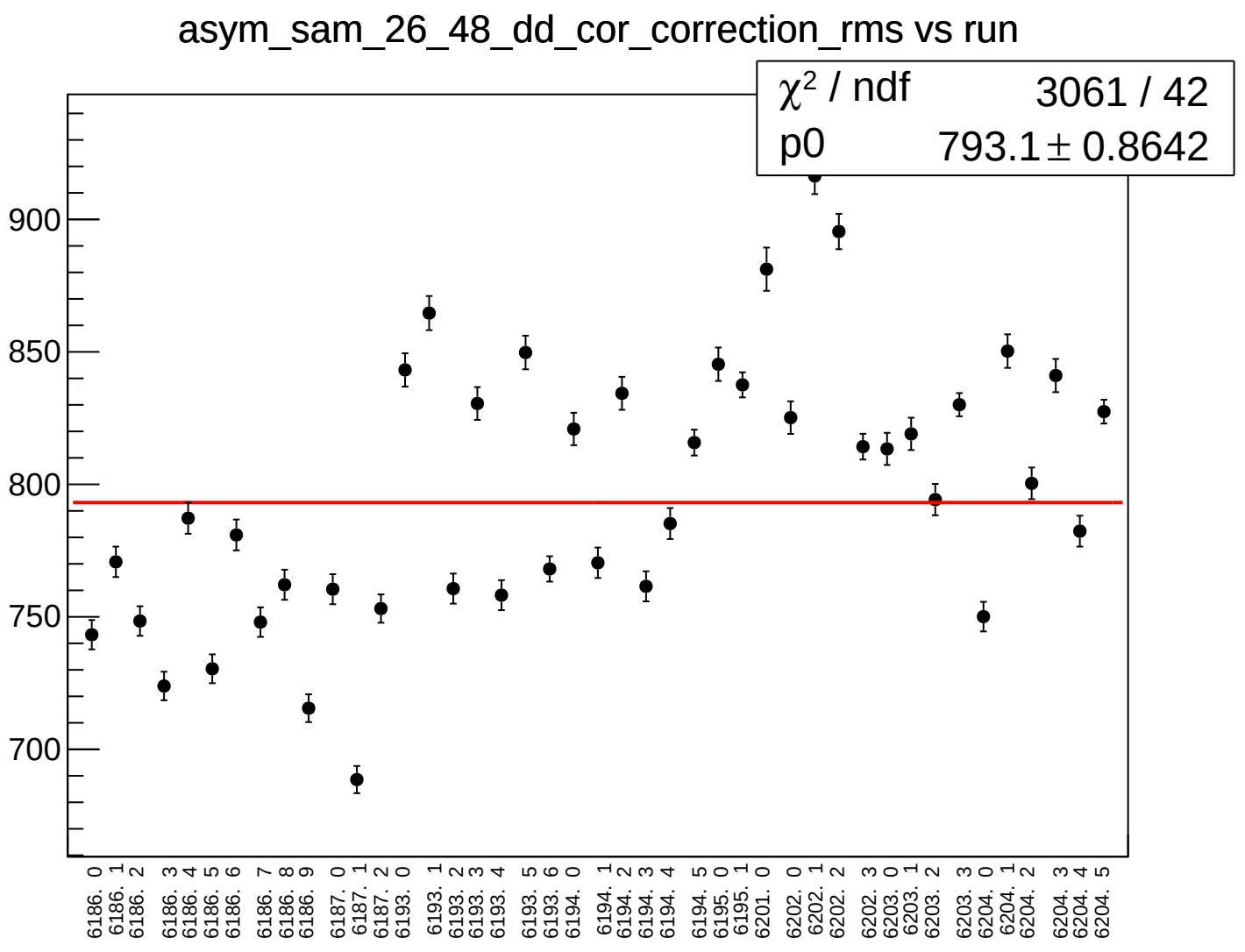

pull1D
Entries 43
Mean −0.02598
Std Dev 1.23

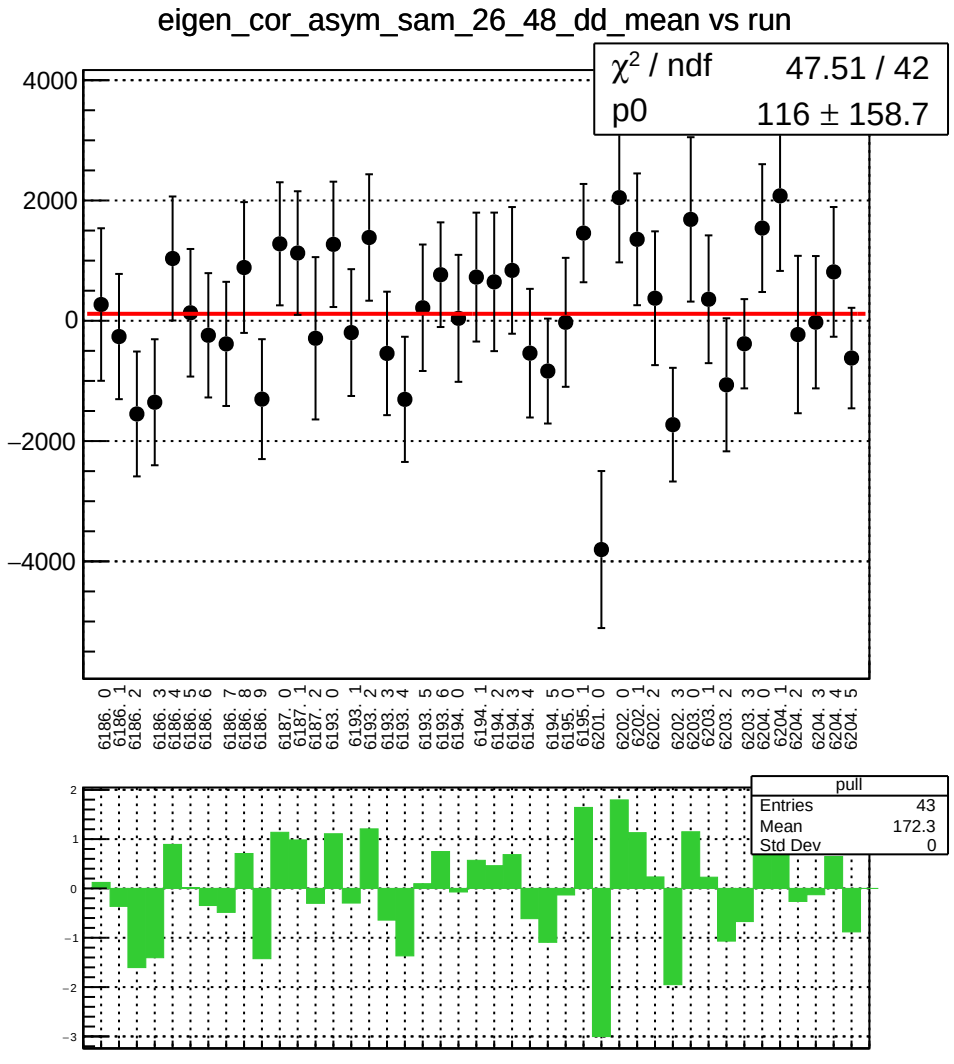

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 3061 / 42
p0 793.1 ± 0.8642
900
850
800
750
700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

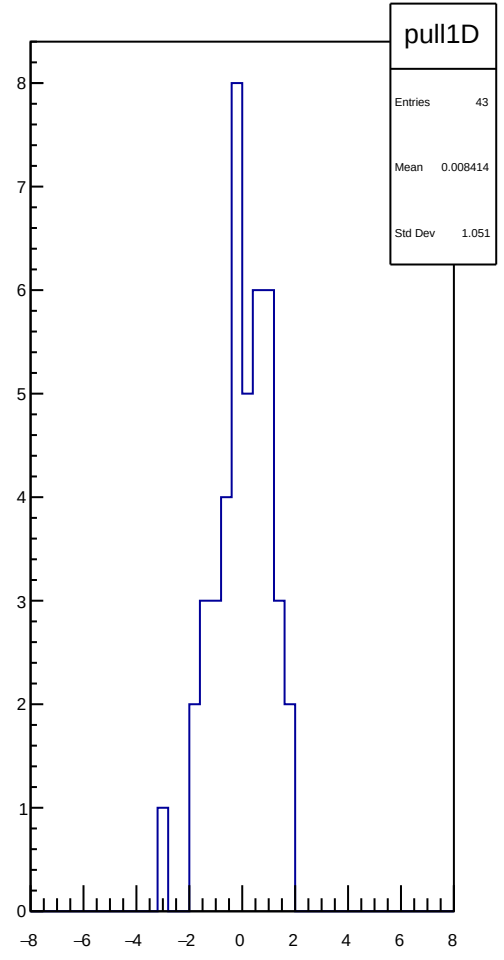

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 47.51 / 42
p0 116 ± 158.7
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 172.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.008414
Std Dev 1.051
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

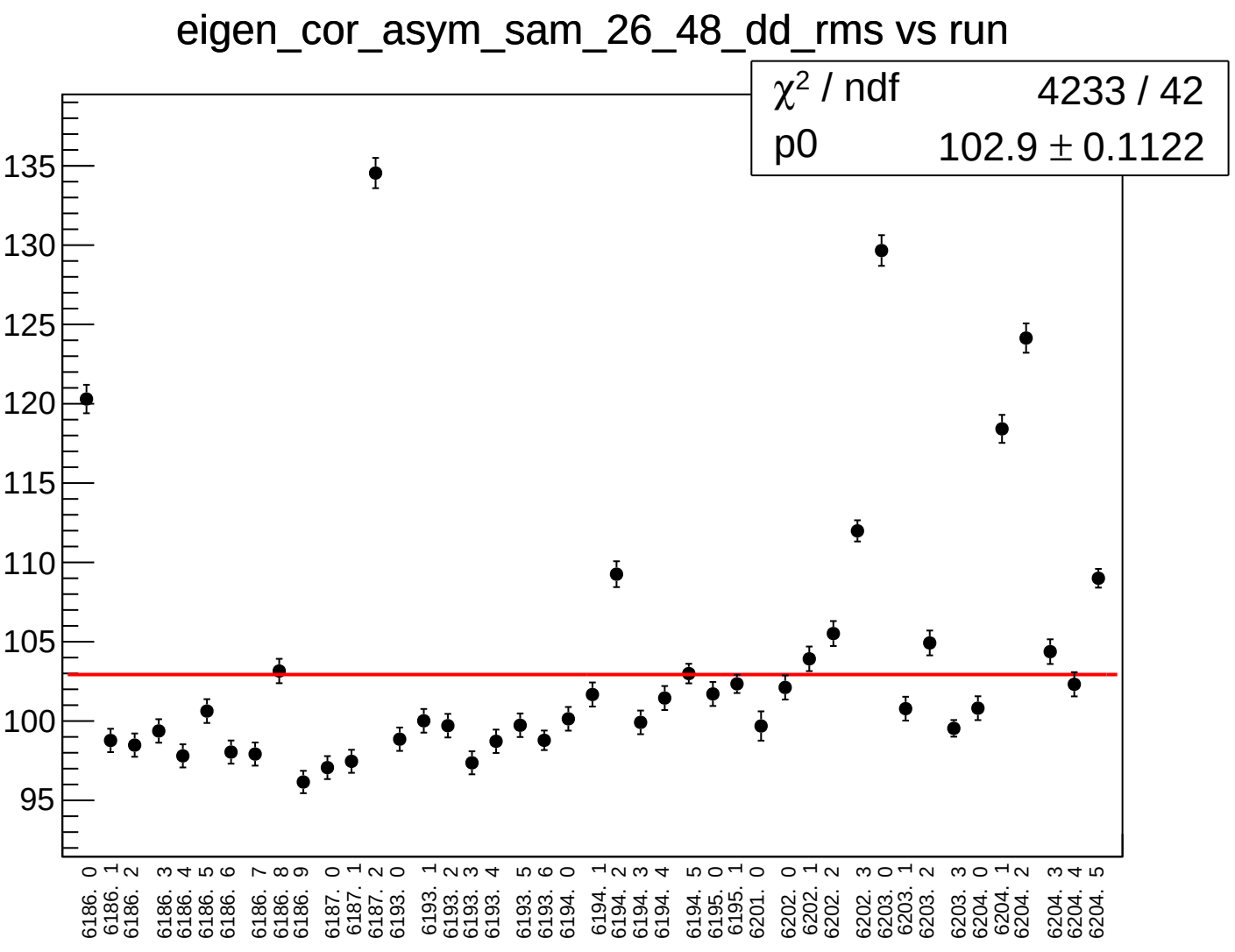

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4233 / 42
p0 102.9 ± 0.1122
135
130
125
120
115
110
105
100
95
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

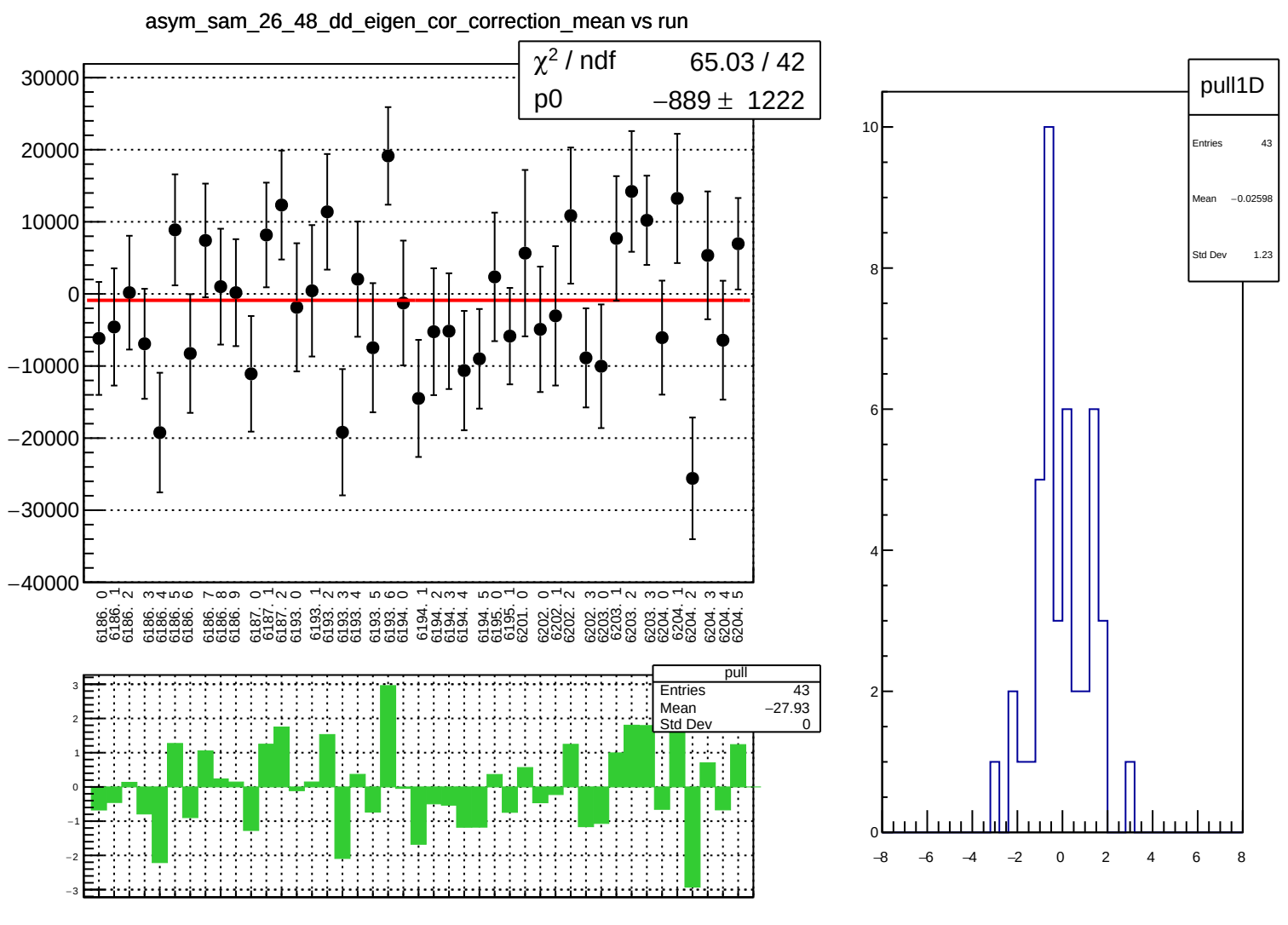

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 65.03 / 42
p0 −889 ± 1222
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −27.93
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.02598
Std Dev 1.23
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

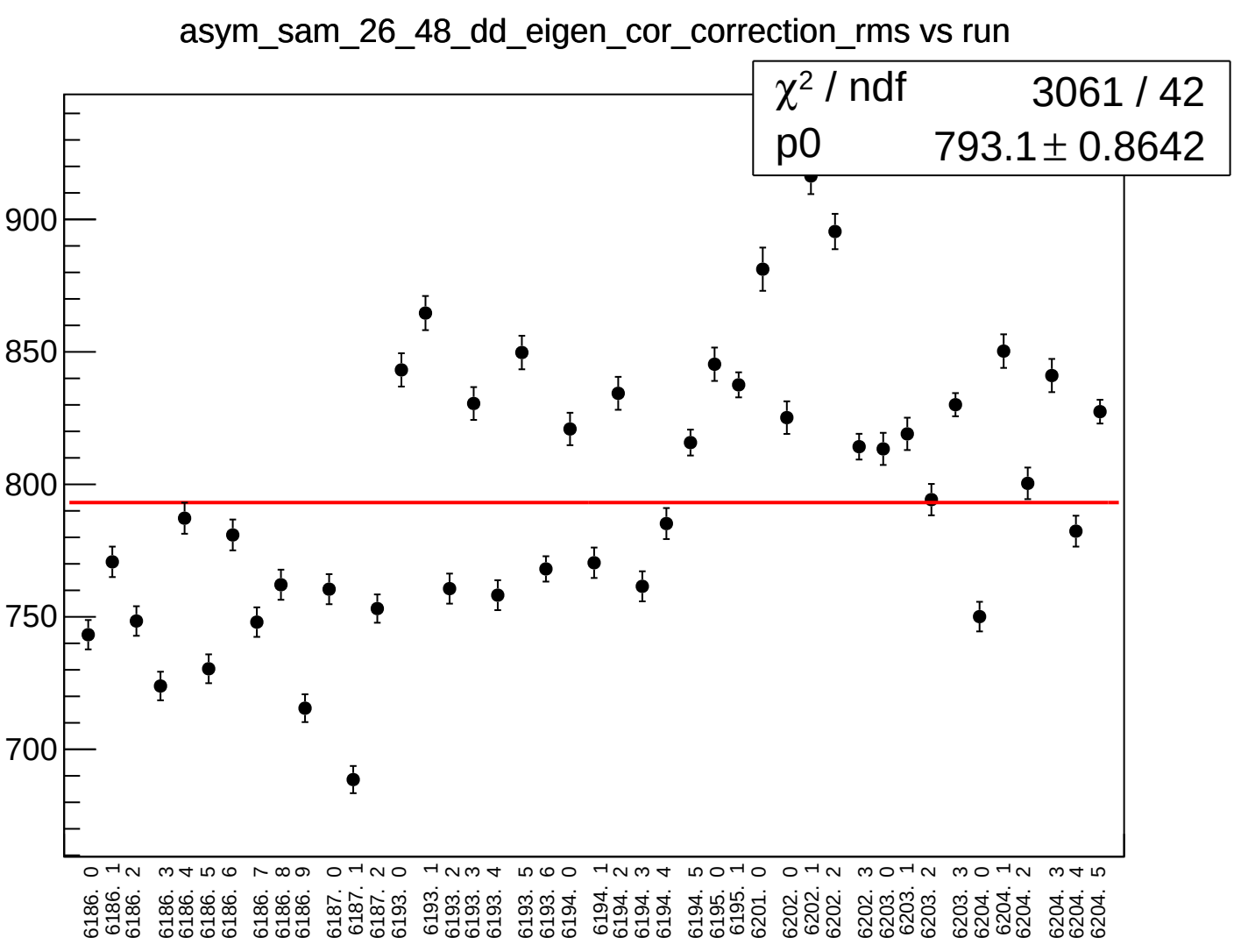

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 3061 / 42
p0 793.1 ± 0.8642
900
850
800
750
700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

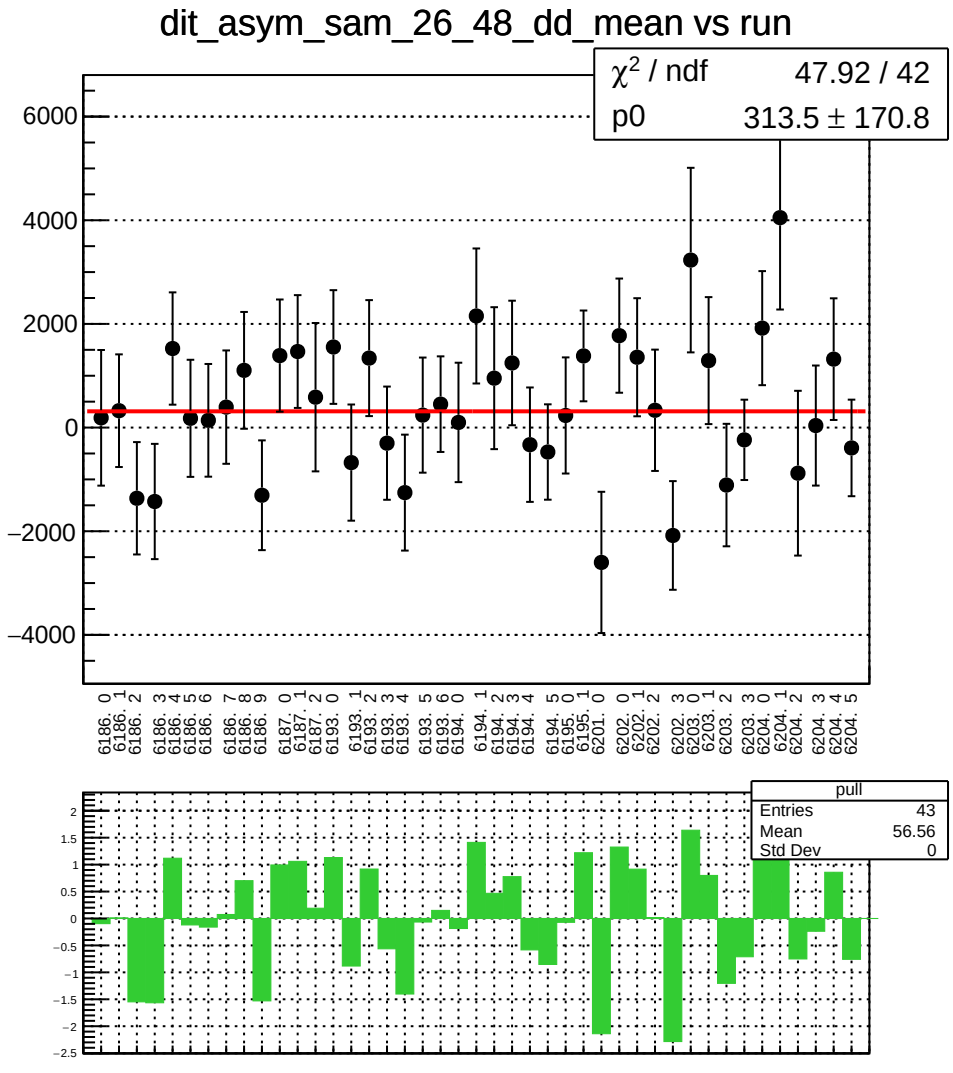

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 47.51 / 42
p0 116 ± 158.7
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 172.3
Std Dev 0
2
1
0
−1
−2
−3

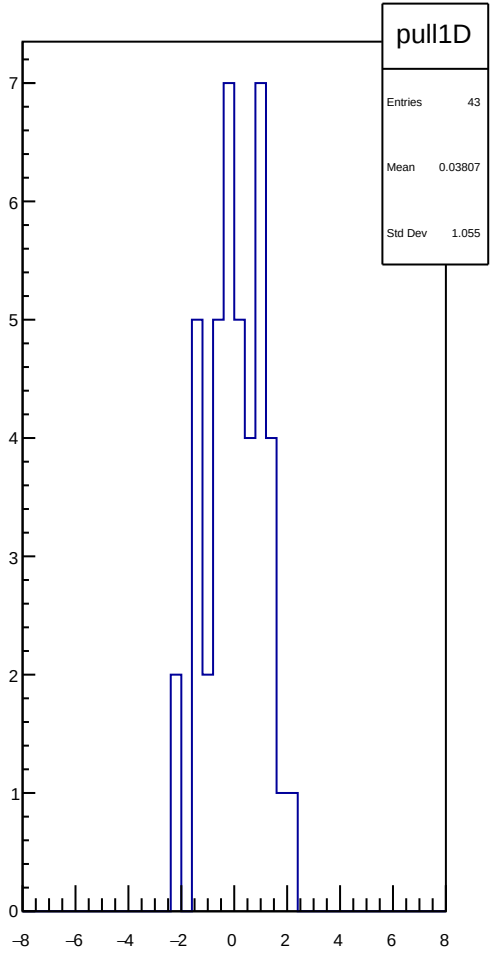

pull1D
Entries 43
Mean 0.008414
Std Dev 1.051
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

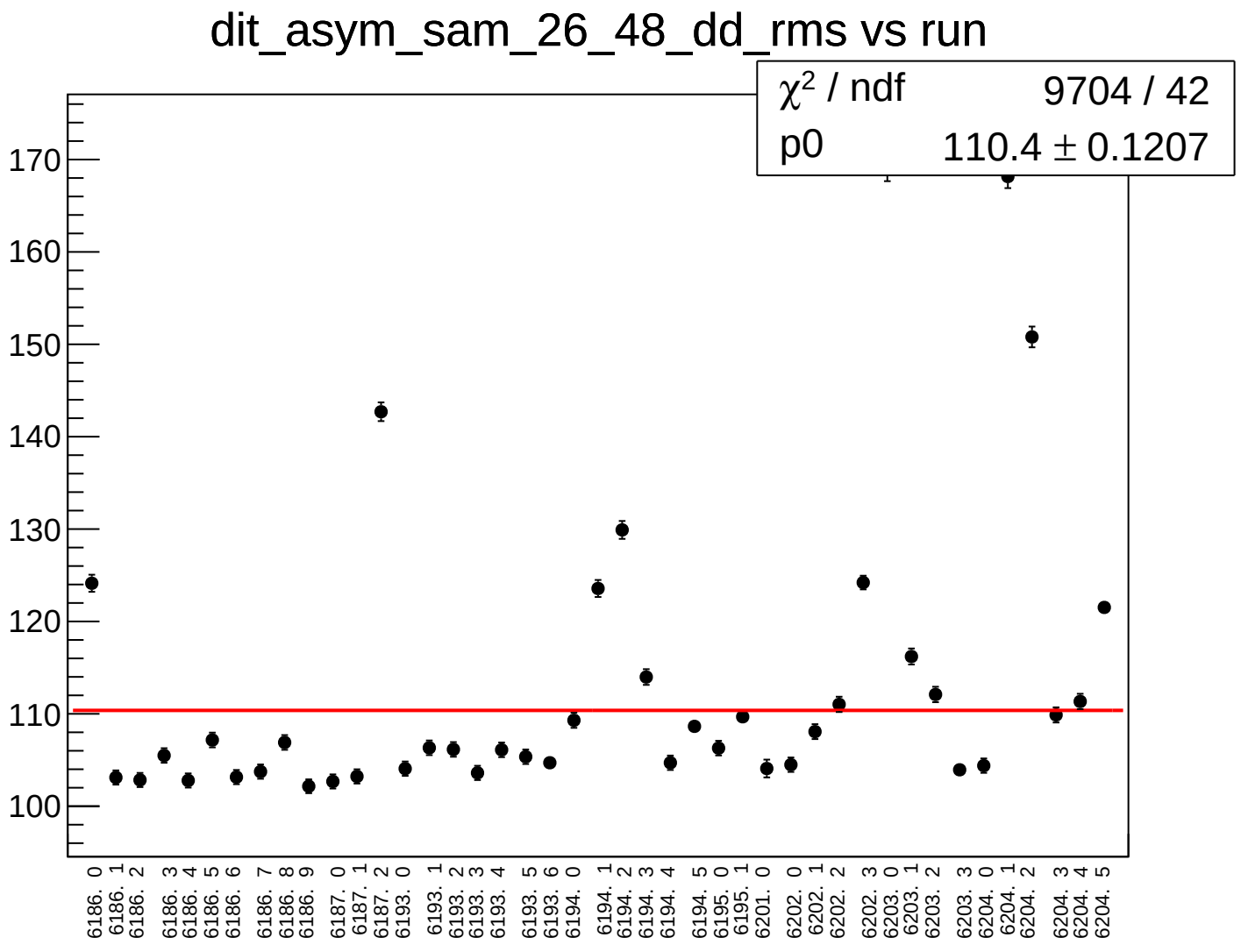

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4233 / 42
p0 102.9 ± 0.1122
135
130
125
120
115
110
105
100
95
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

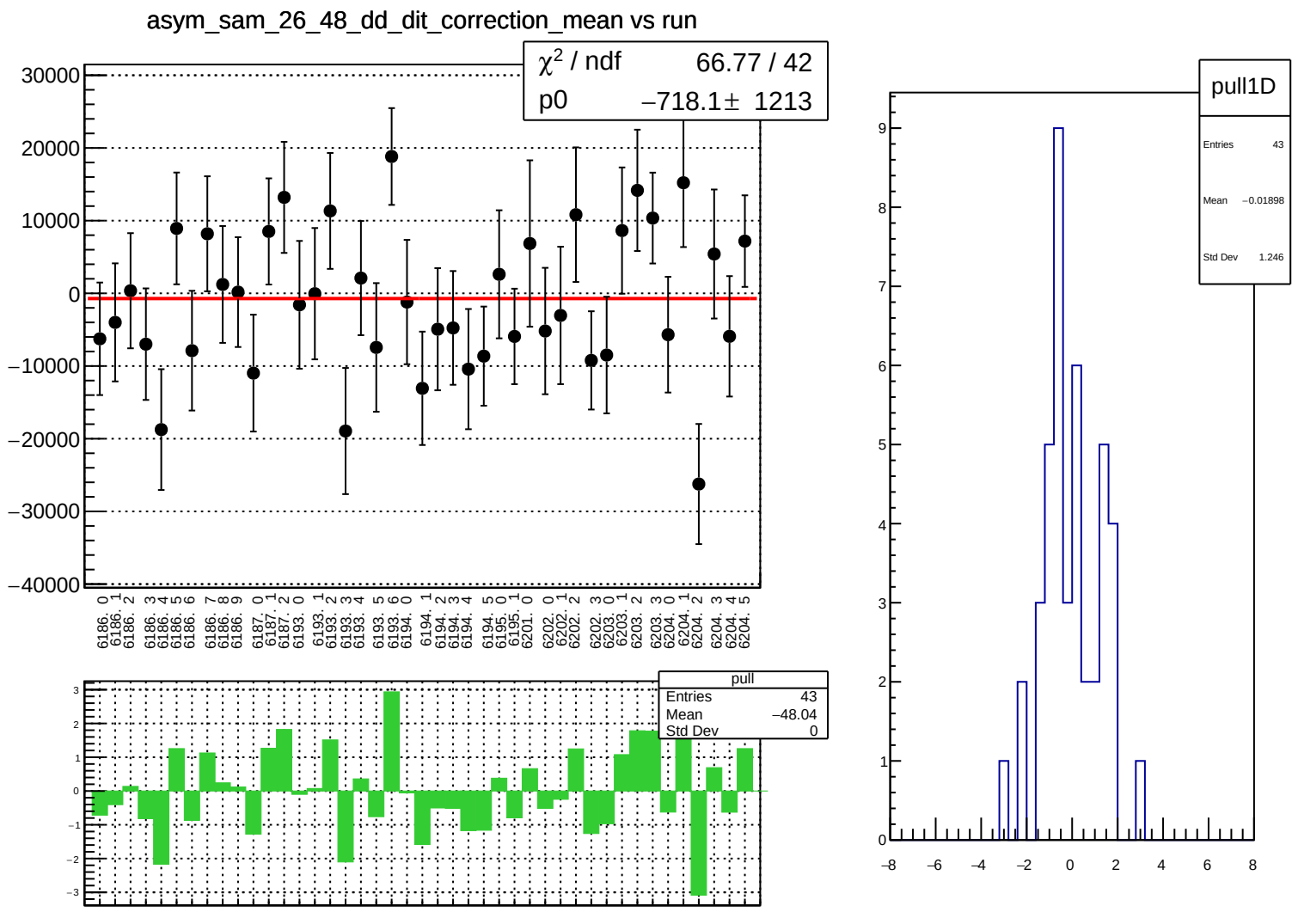

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.03 / 42
p0 −889 ± 1222
pull
Entries 43
Mean −27.93
Std Dev 0
pull1D
Entries 43
Mean −0.02598
Std Dev 1.23

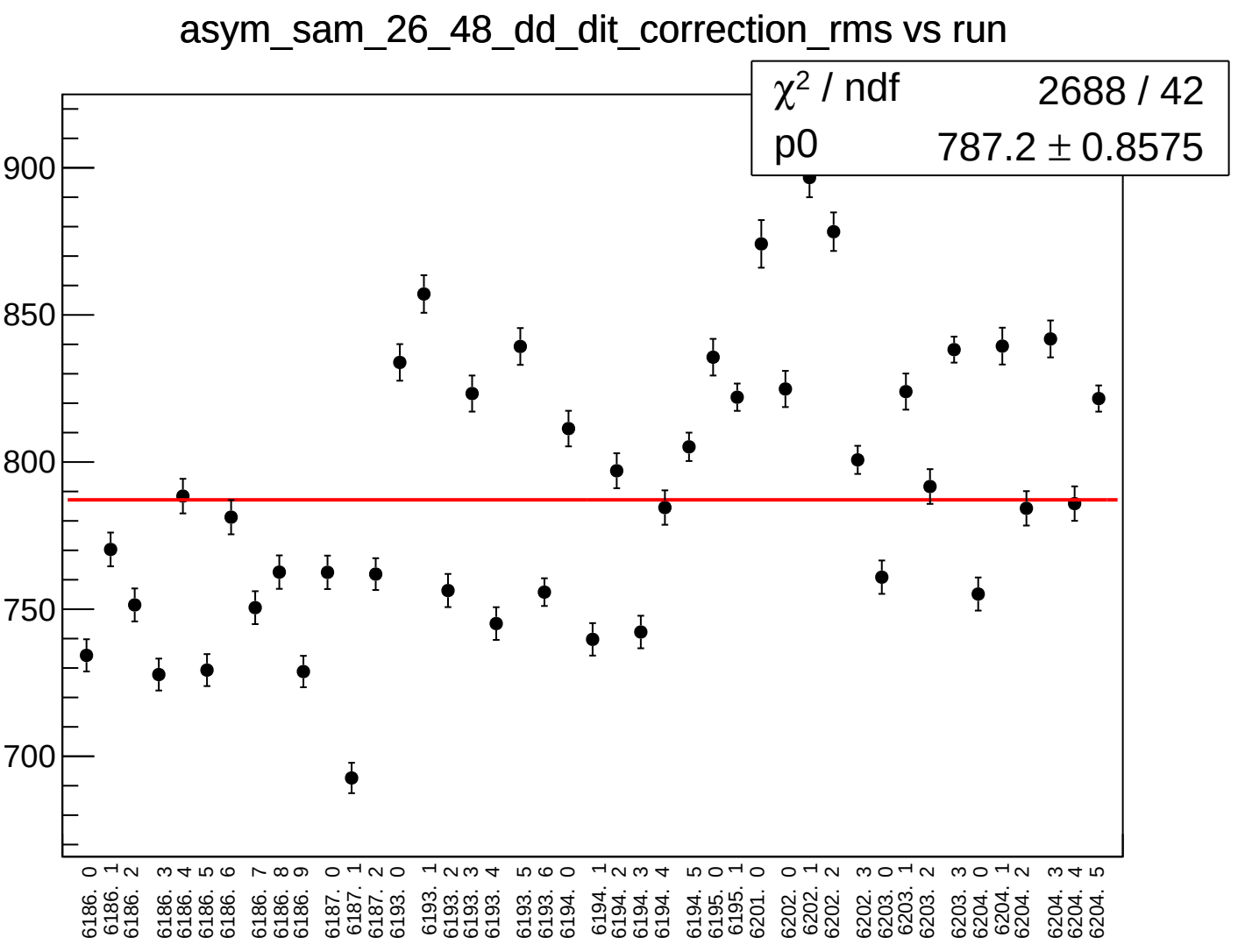

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3061 / 42
p0 793.1 ± 0.8642
900
850
800
750
700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

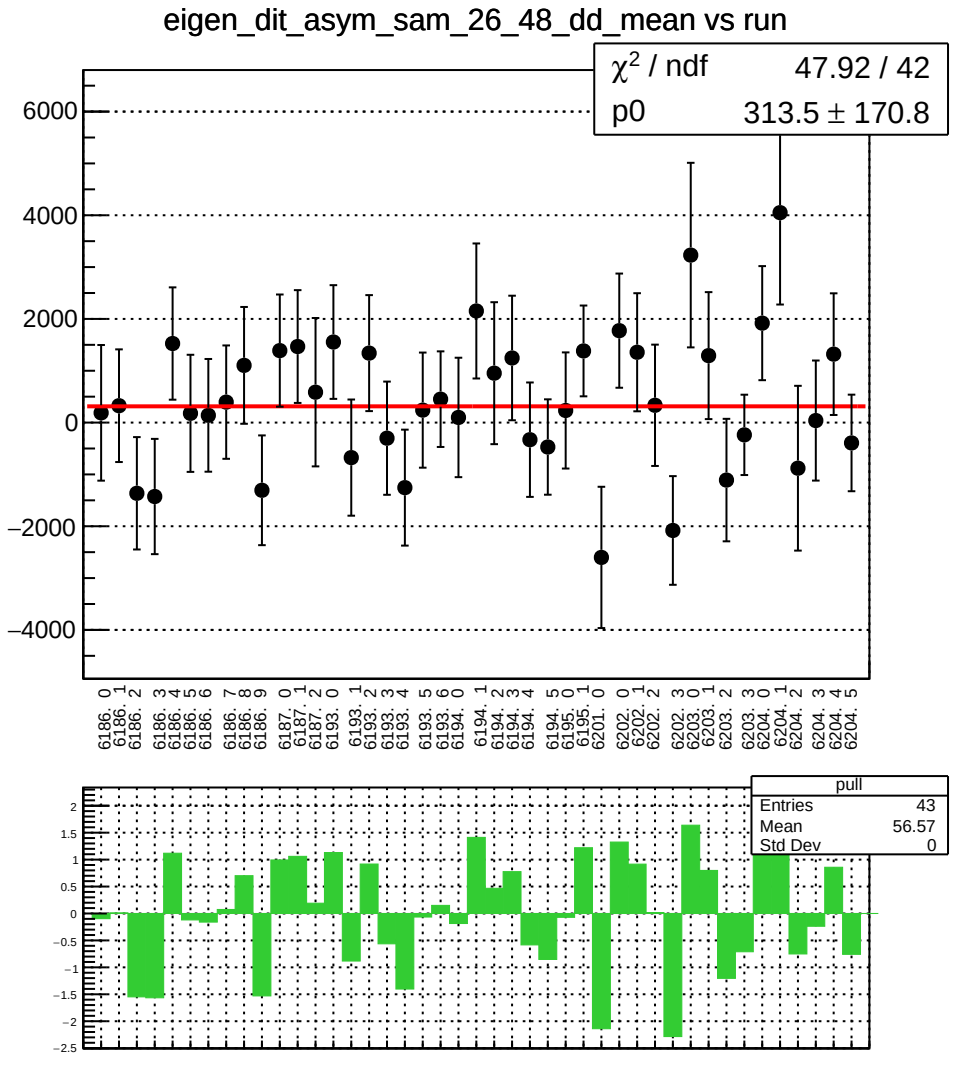

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 47.92 / 42
p0 313.5 ± 170.8
6000
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 56.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

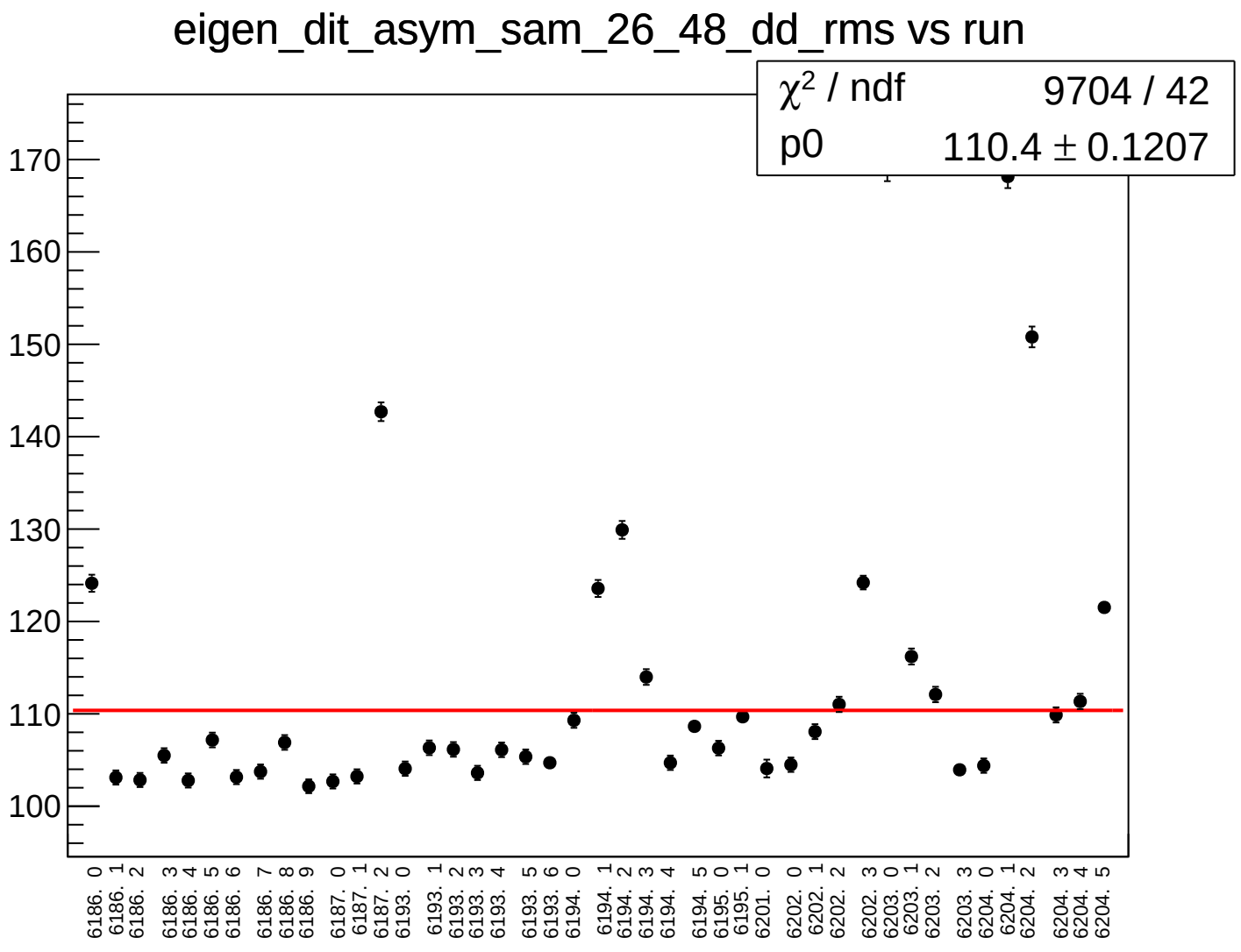

pull1D
Entries 43
Mean 0.03807
Std Dev 1.055
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

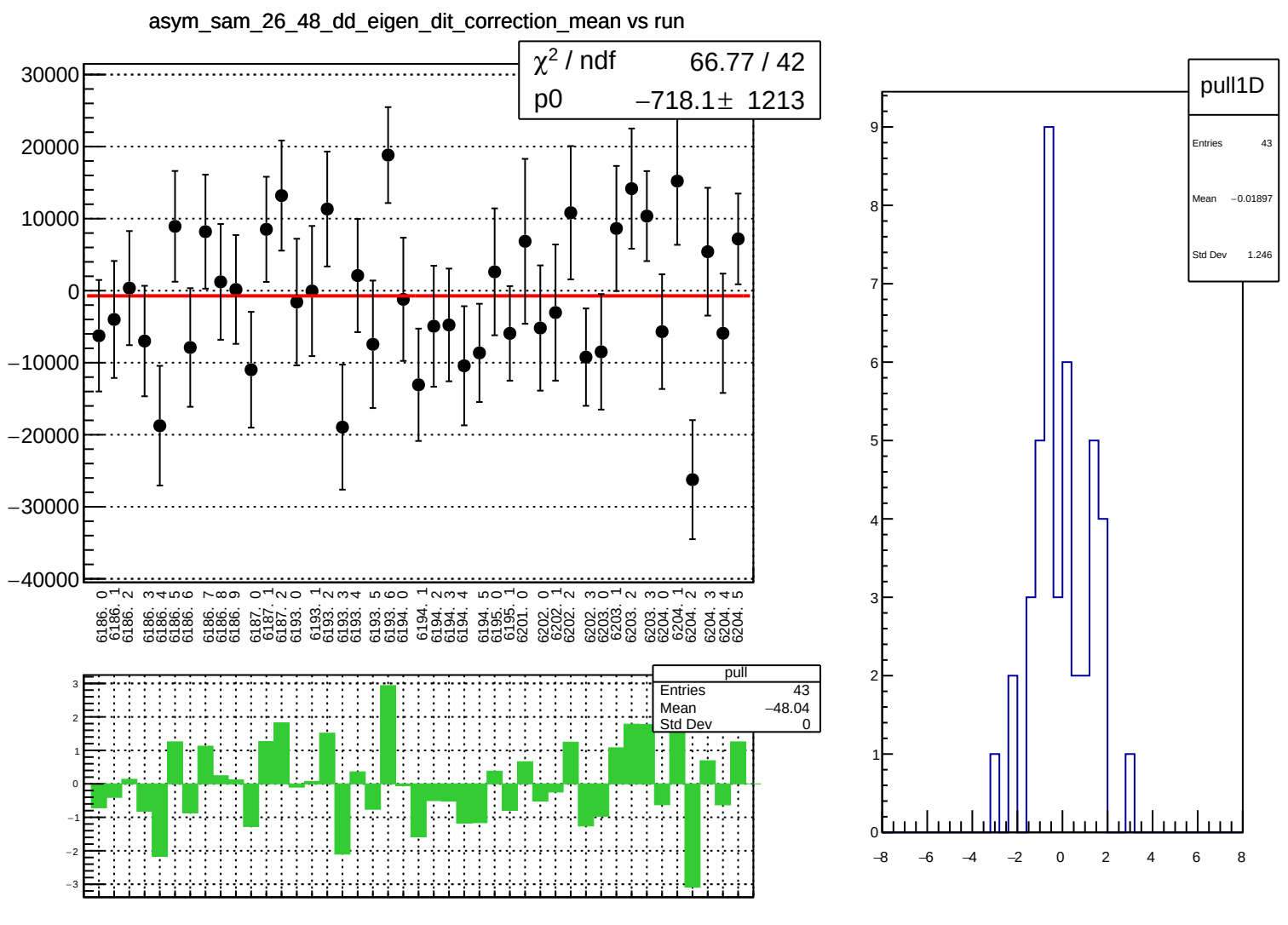

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 9704 / 42
p0 110.4 ± 0.1207
170
160
150
140
130
120
110
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

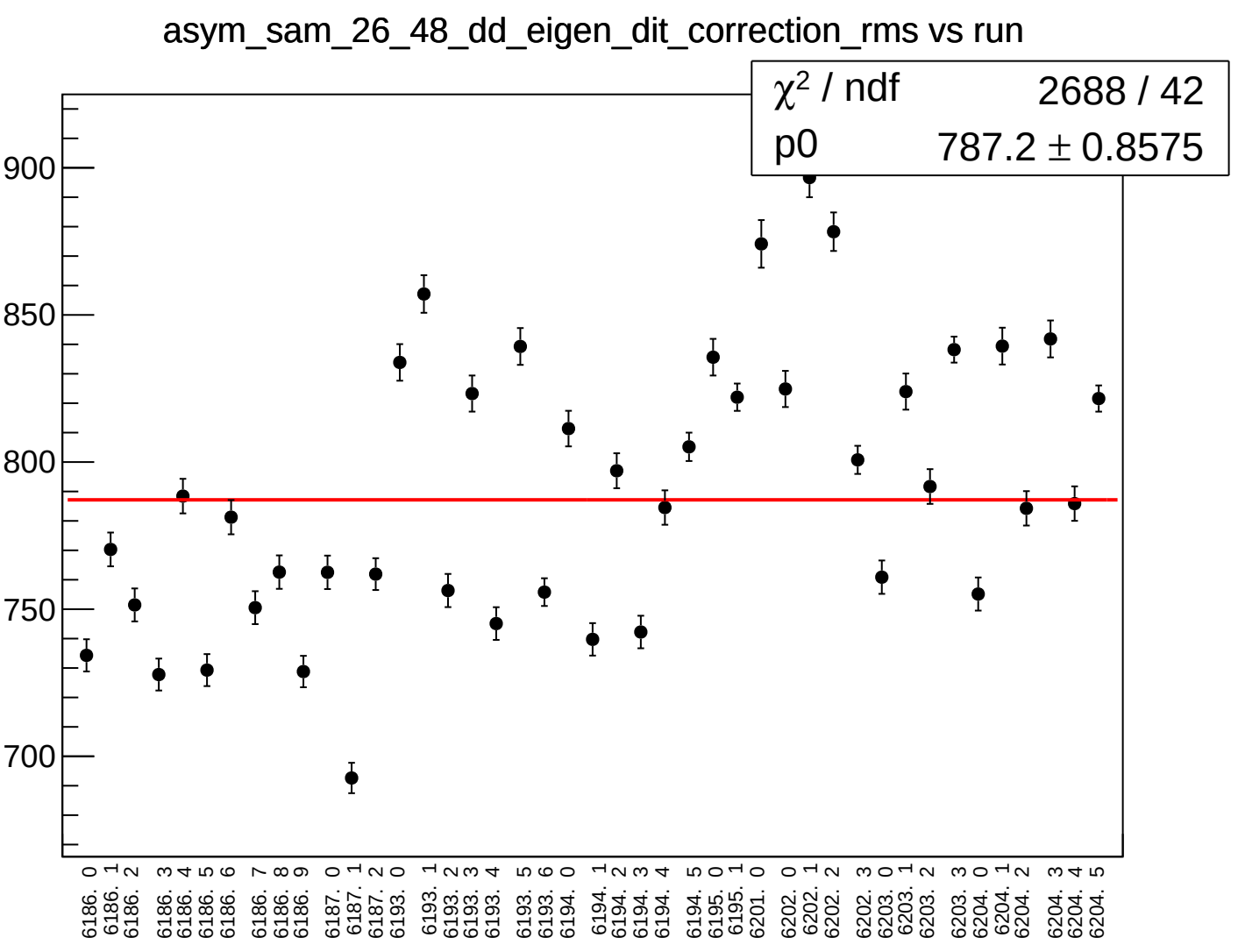

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 66.77 / 42
p0 −718.1± 1213
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −48.04
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01898
Std Dev 1.246
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

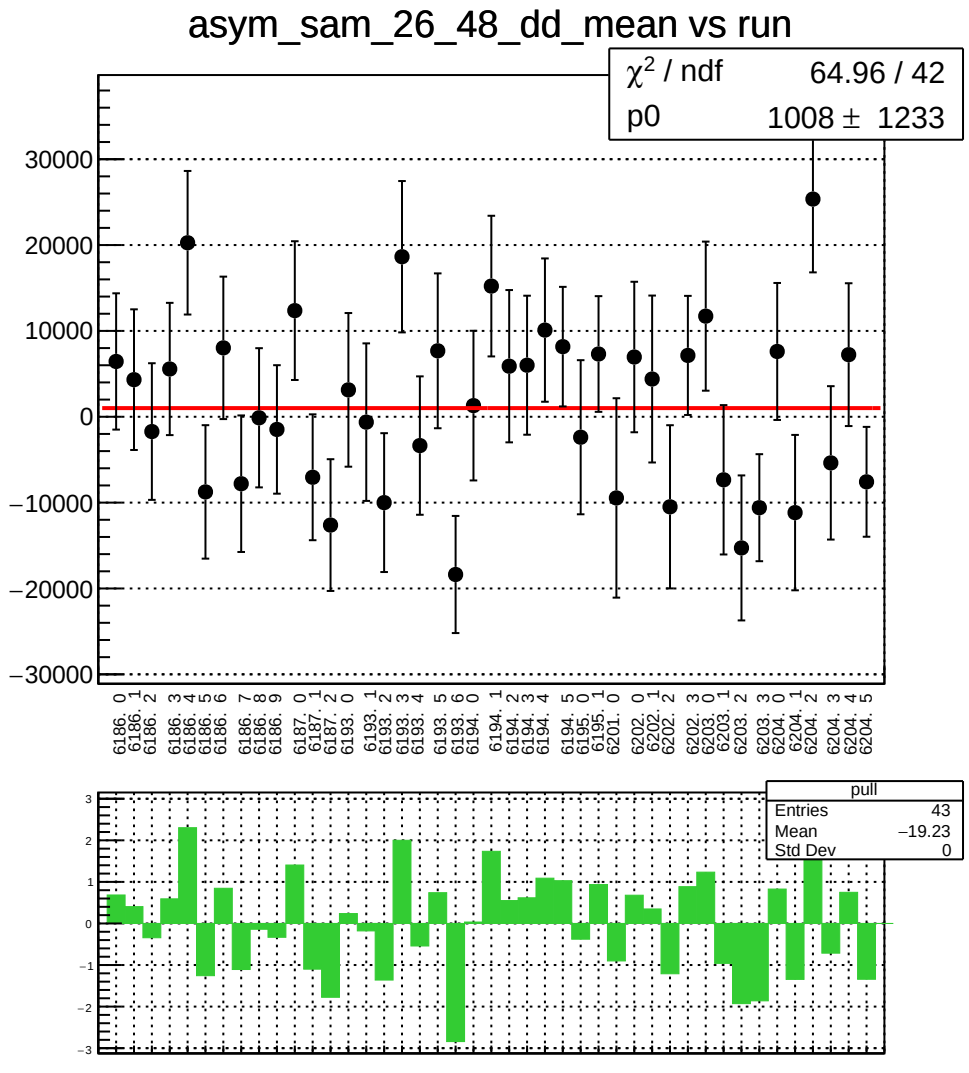

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 2688 / 42
p0 787.2 ± 0.8575
900
850
800
750
700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

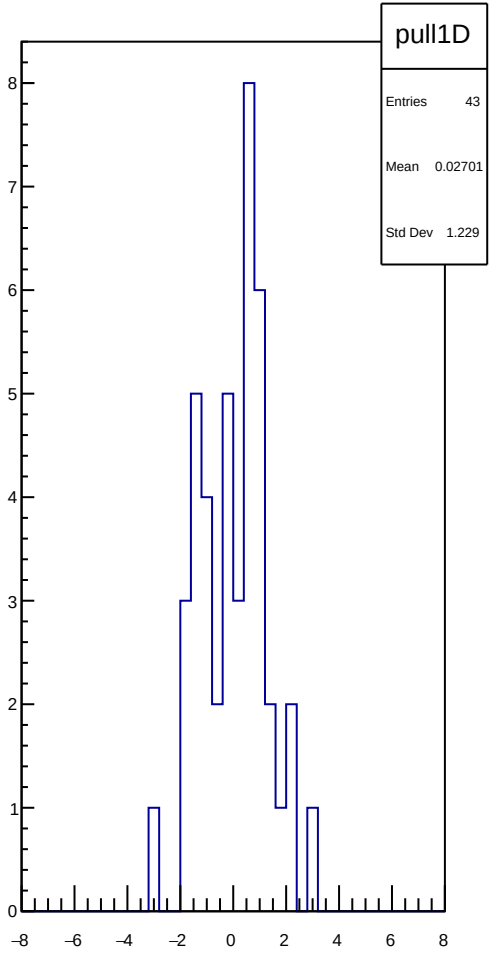

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 47.92 / 42
p0 313.5 ± 170.8
6000
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 56.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.03807
Std Dev 1.055
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

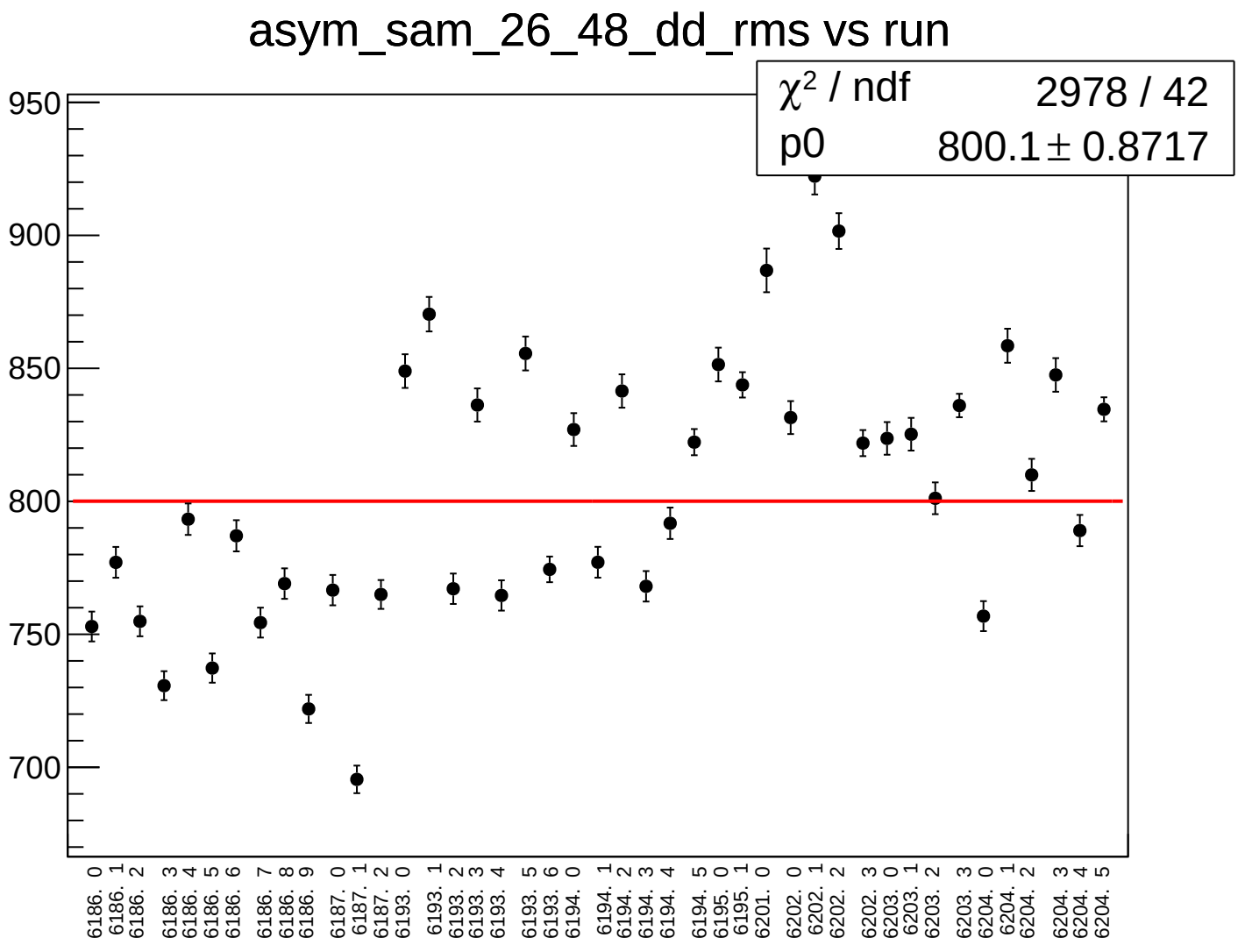

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 9704 / 42
p0 110.4 ± 0.1207
170
160
150
140
130
120
110
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

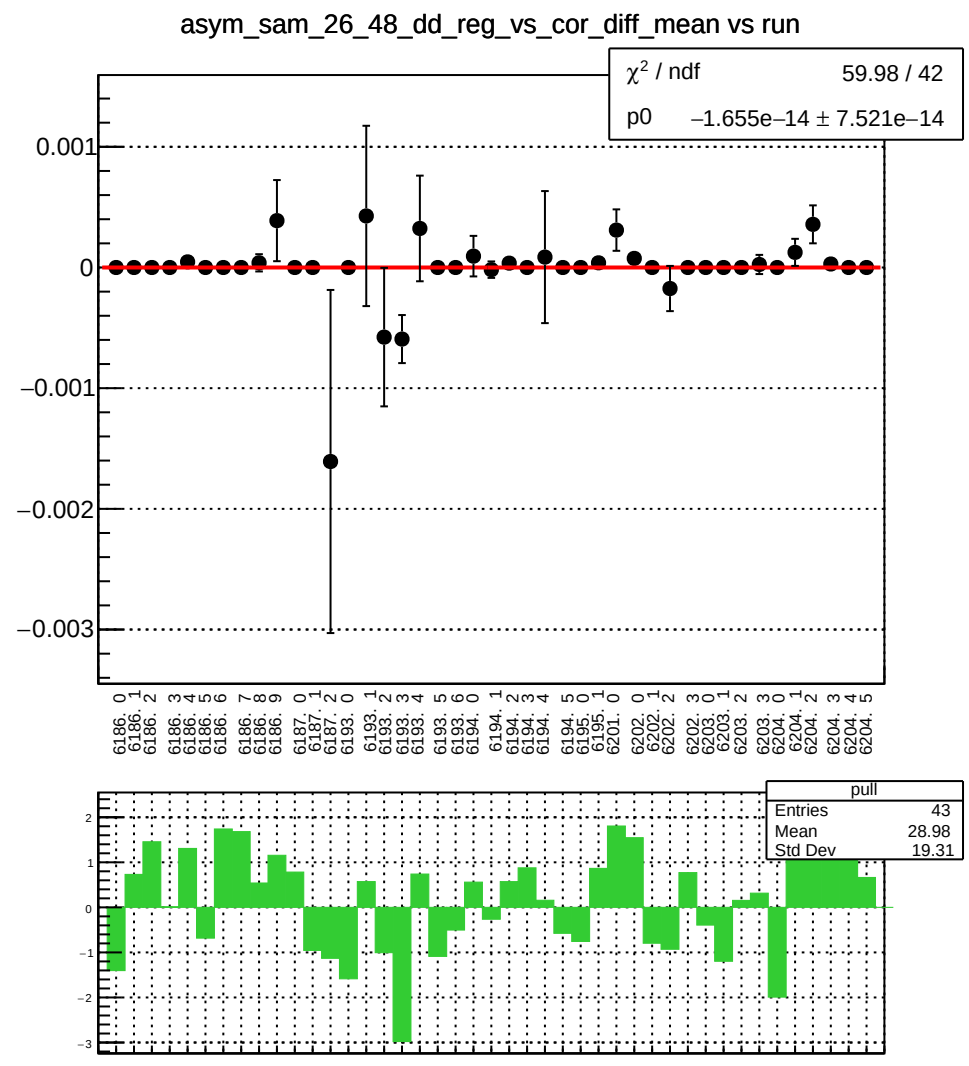

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.77 / 42
p0 −718.1± 1213
pull
Entries 43
Mean −48.04
Std Dev 0
pull1D
Entries 43
Mean −0.01897
Std Dev 1.246

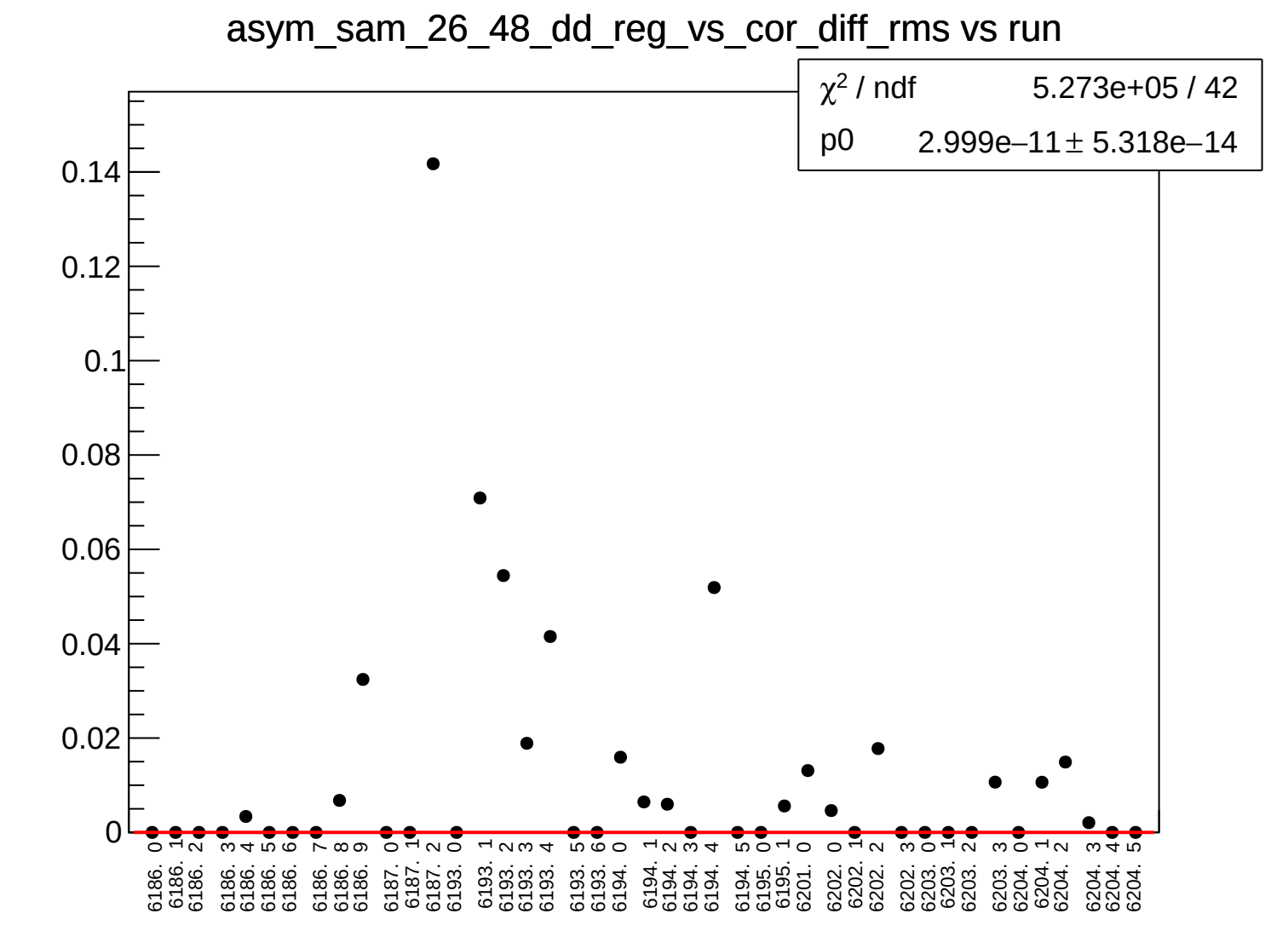

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2688 / 42
p0 787.2 ± 0.8575
900
850
800
750
700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

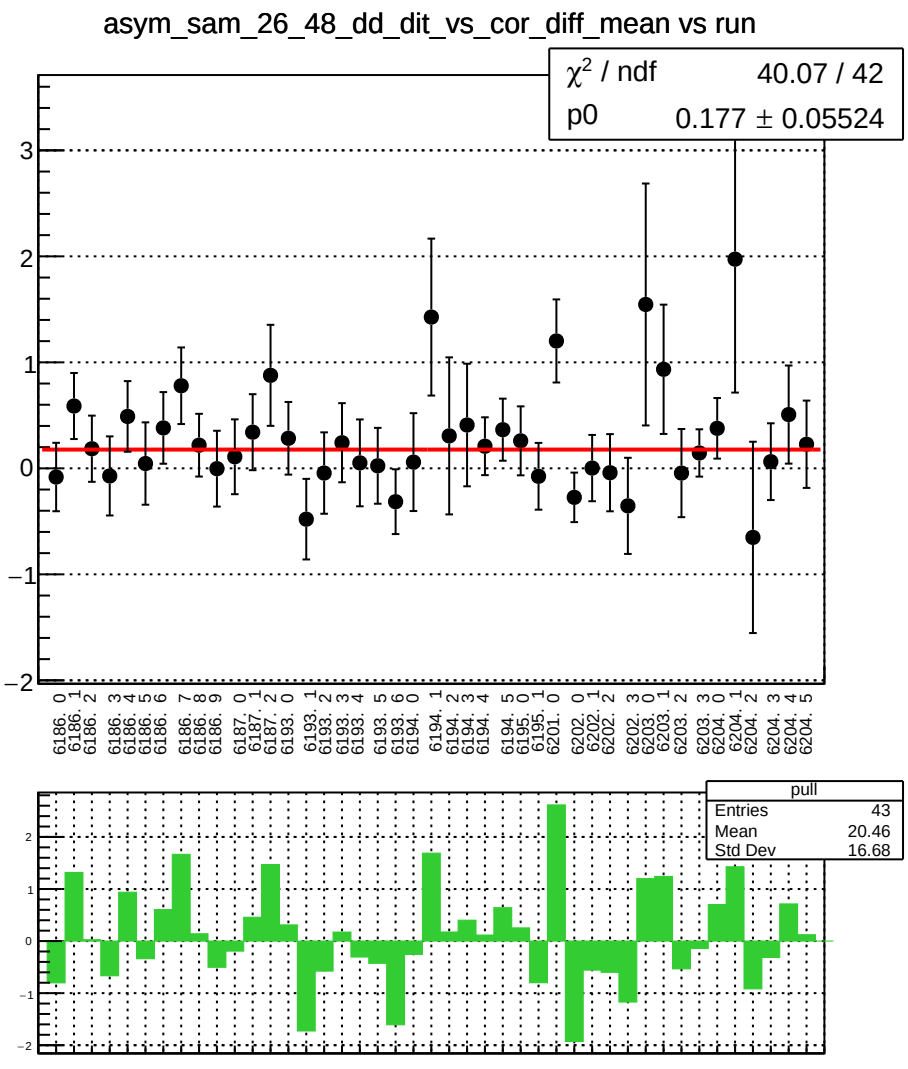

asym_sam_26_48_dd_mean vs run
χ² / ndf 64.96 / 42
p0 1008 ± 1233
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −19.23
Std Dev 0
3
2
1
0
−1
−2
−3

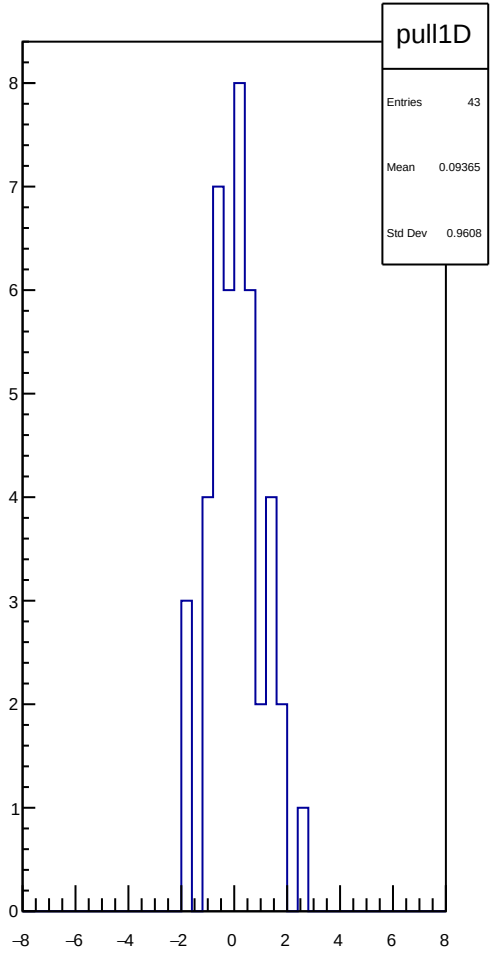

pull1D
Entries 43
Mean 0.02701
Std Dev 1.229
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

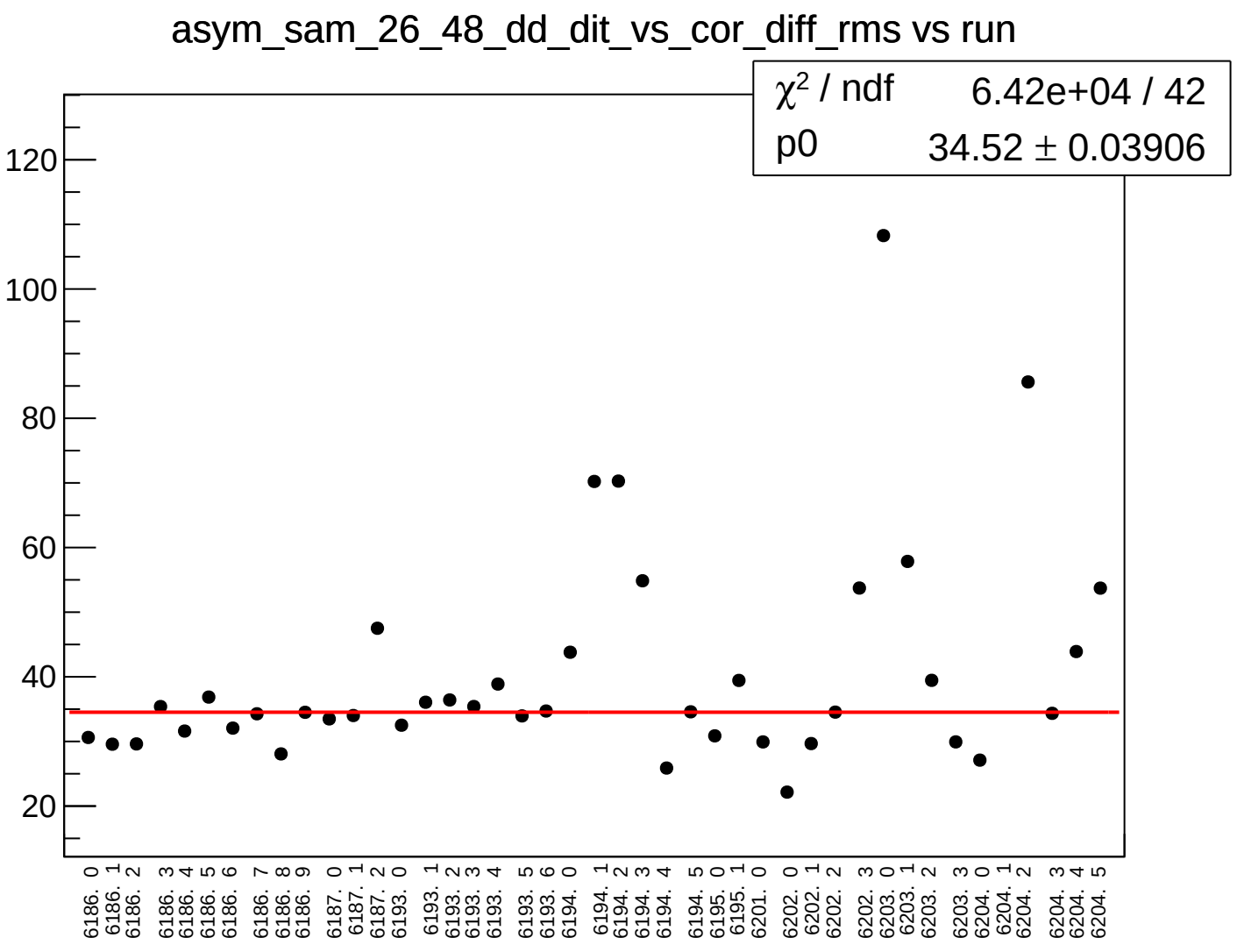

asym_sam_26_48_dd_rms vs run
χ² / ndf 2978 / 42
p0 800.1 ± 0.8717
950
900
850
800
750
700
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

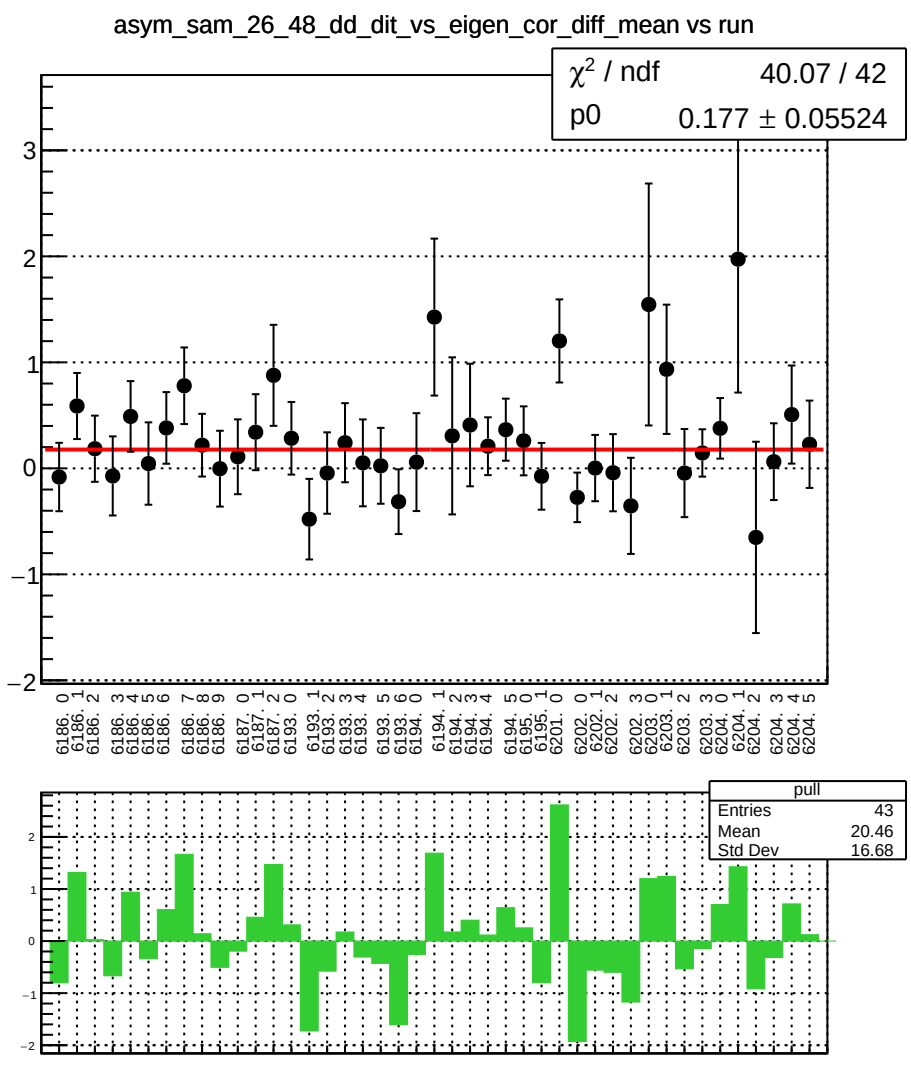

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 59.98 / 42
p0 −1.655e−14 ± 7.521e−14
0.001
0
−0.001
−0.002
−0.003
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 28.98
Std Dev 19.31
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.1679
Std Dev 1.169
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

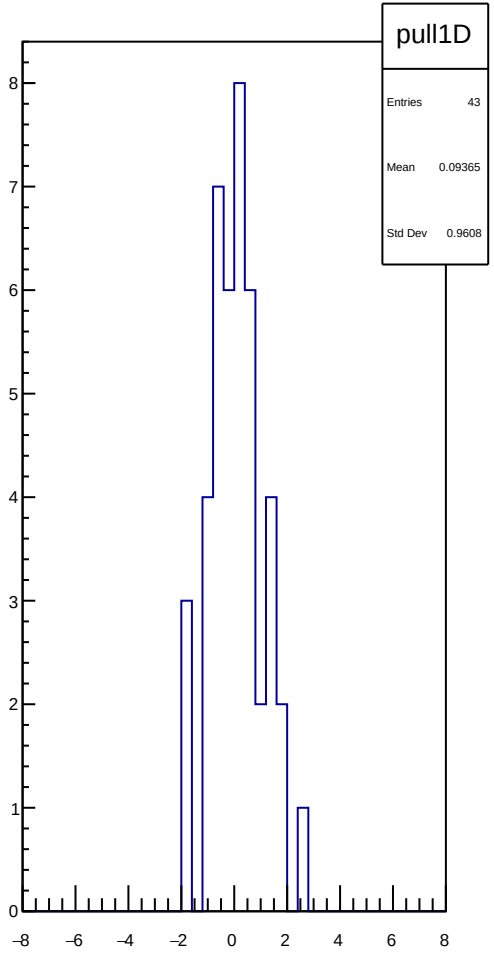

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.273e+05 / 42
p0 2.999e−11 ± 5.318e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

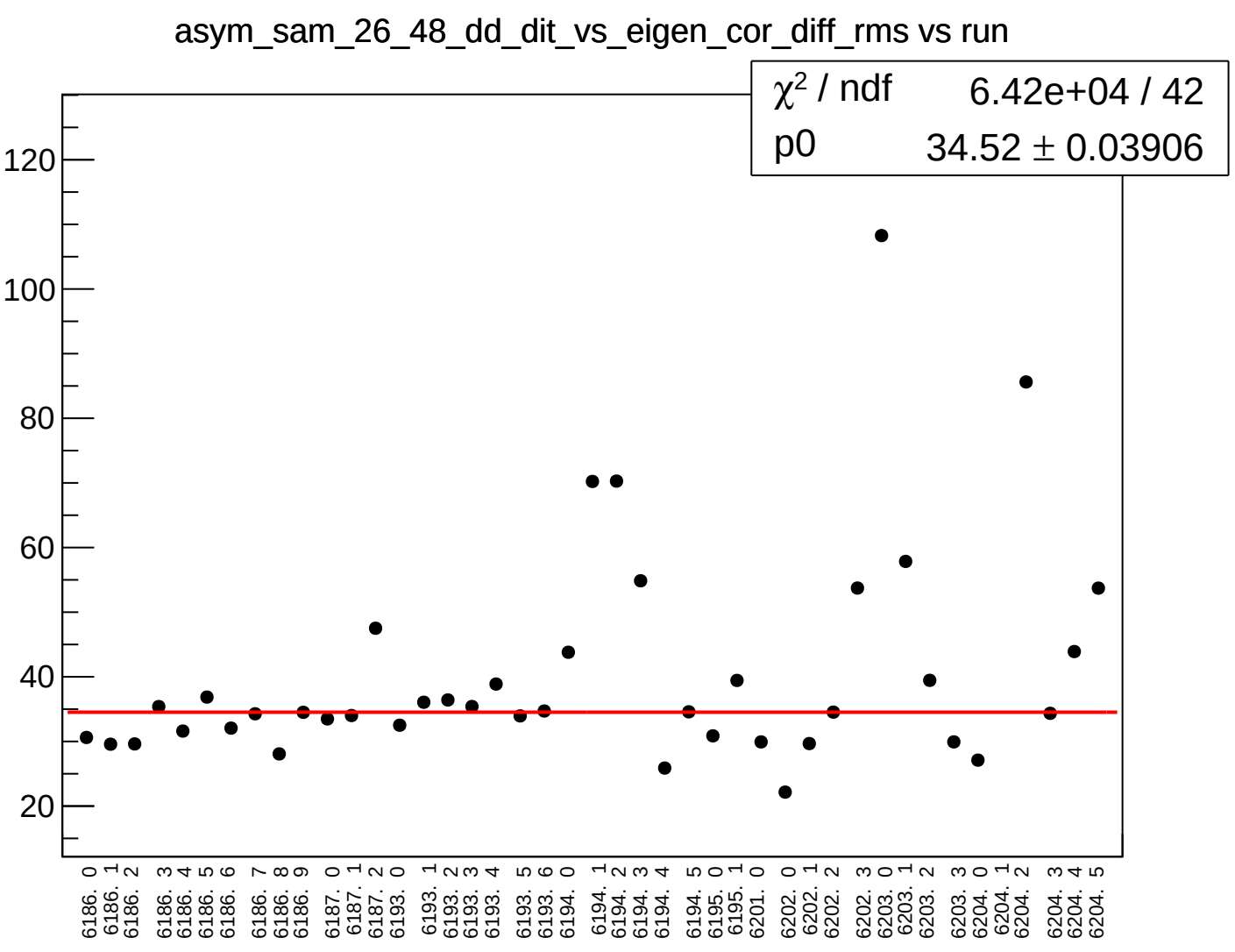

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 40.07 / 42
p0 0.177 ± 0.05524
pull
Entries 43
Mean 20.46
Std Dev 16.68

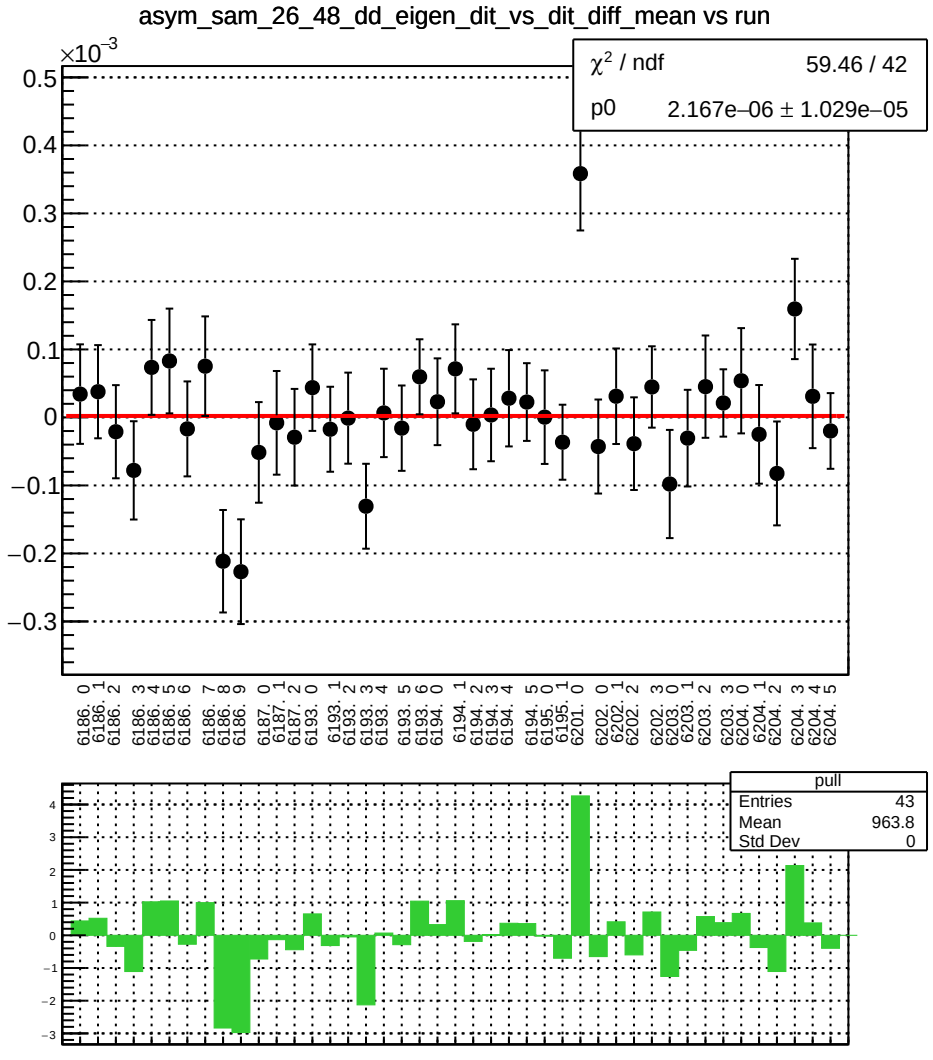

pull1D
Entries 43
Mean 0.09365
Std Dev 0.9608

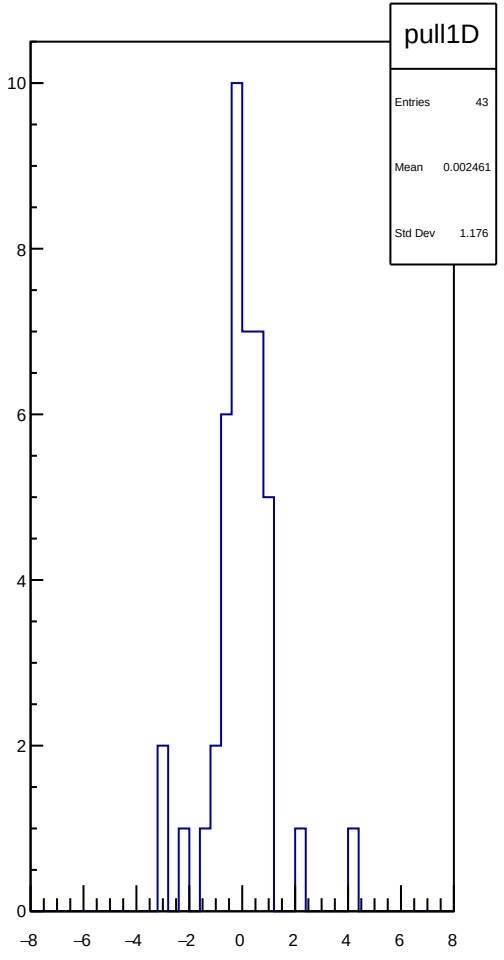

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.42e+04 / 42
p0 34.52 ± 0.03906
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

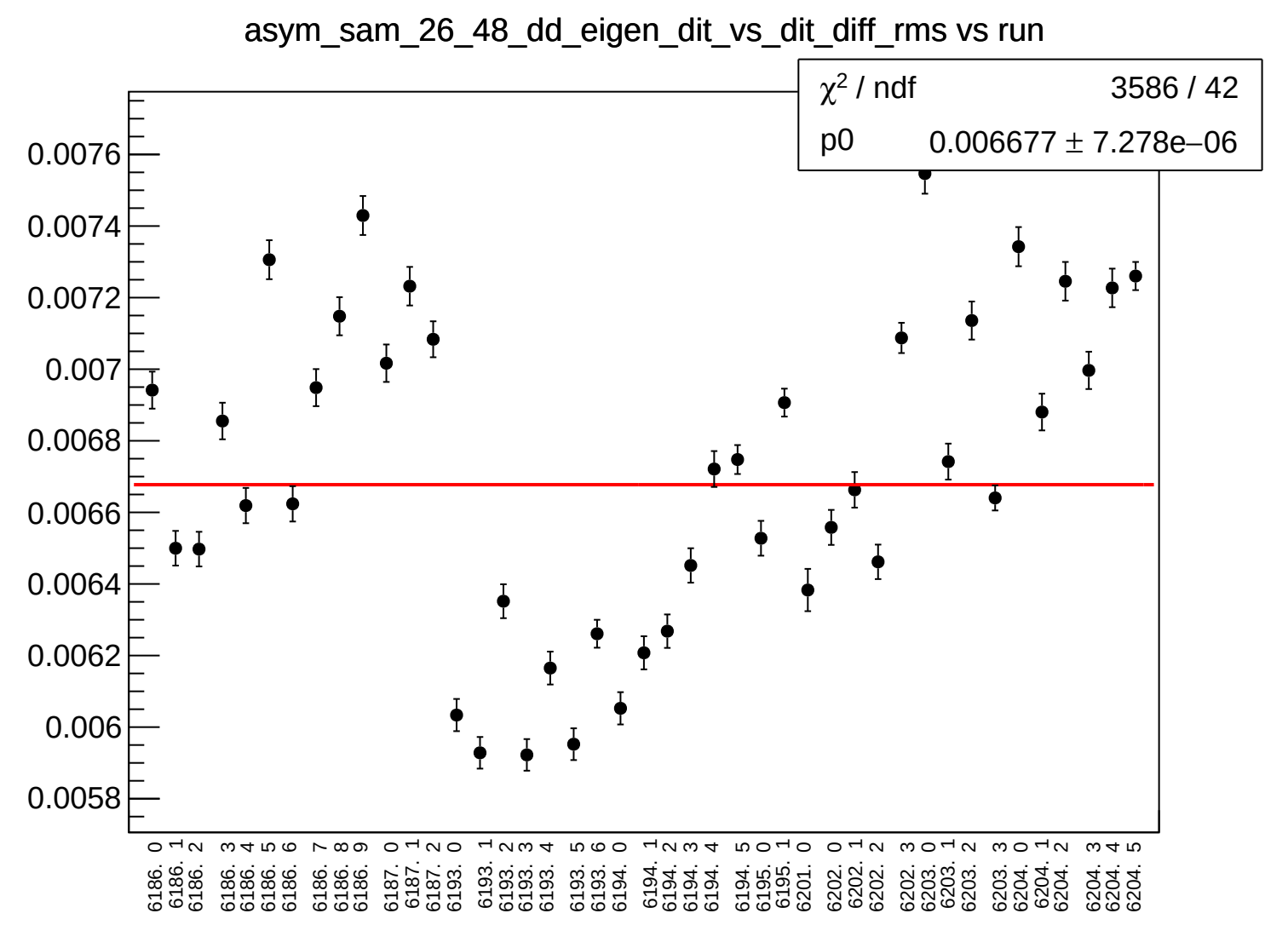

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 40.07 / 42
p0 0.177 ± 0.05524
pull
Entries 43
Mean 20.46
Std Dev 16.68

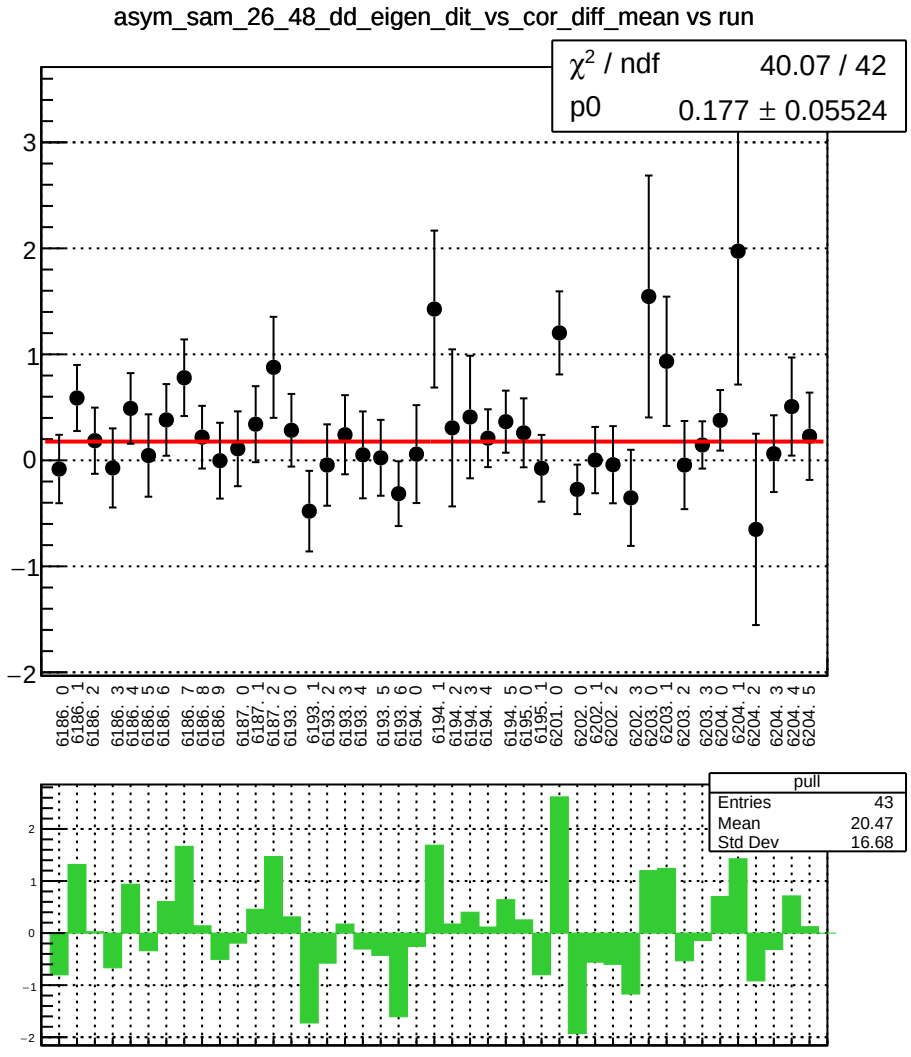

pull1D
Entries 43
Mean 0.09365
Std Dev 0.9608

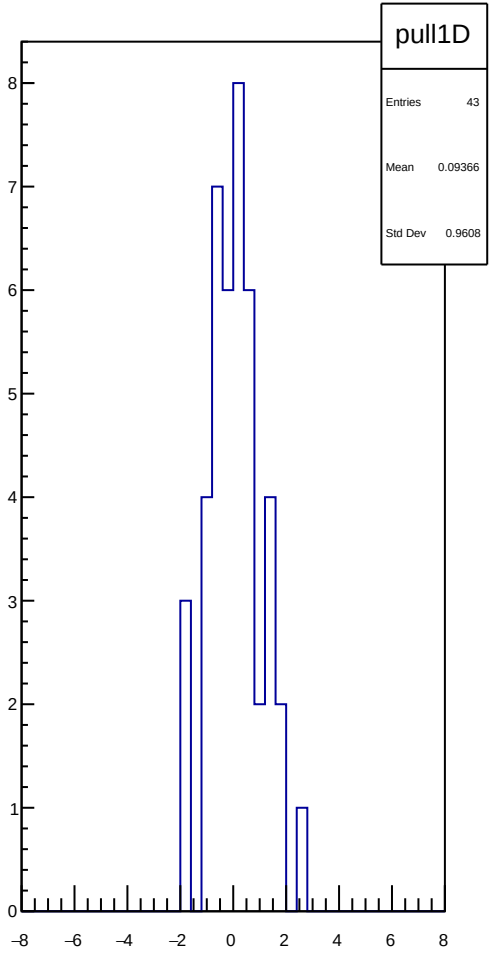

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.42e+04 / 42
p0 34.52 ± 0.03906
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

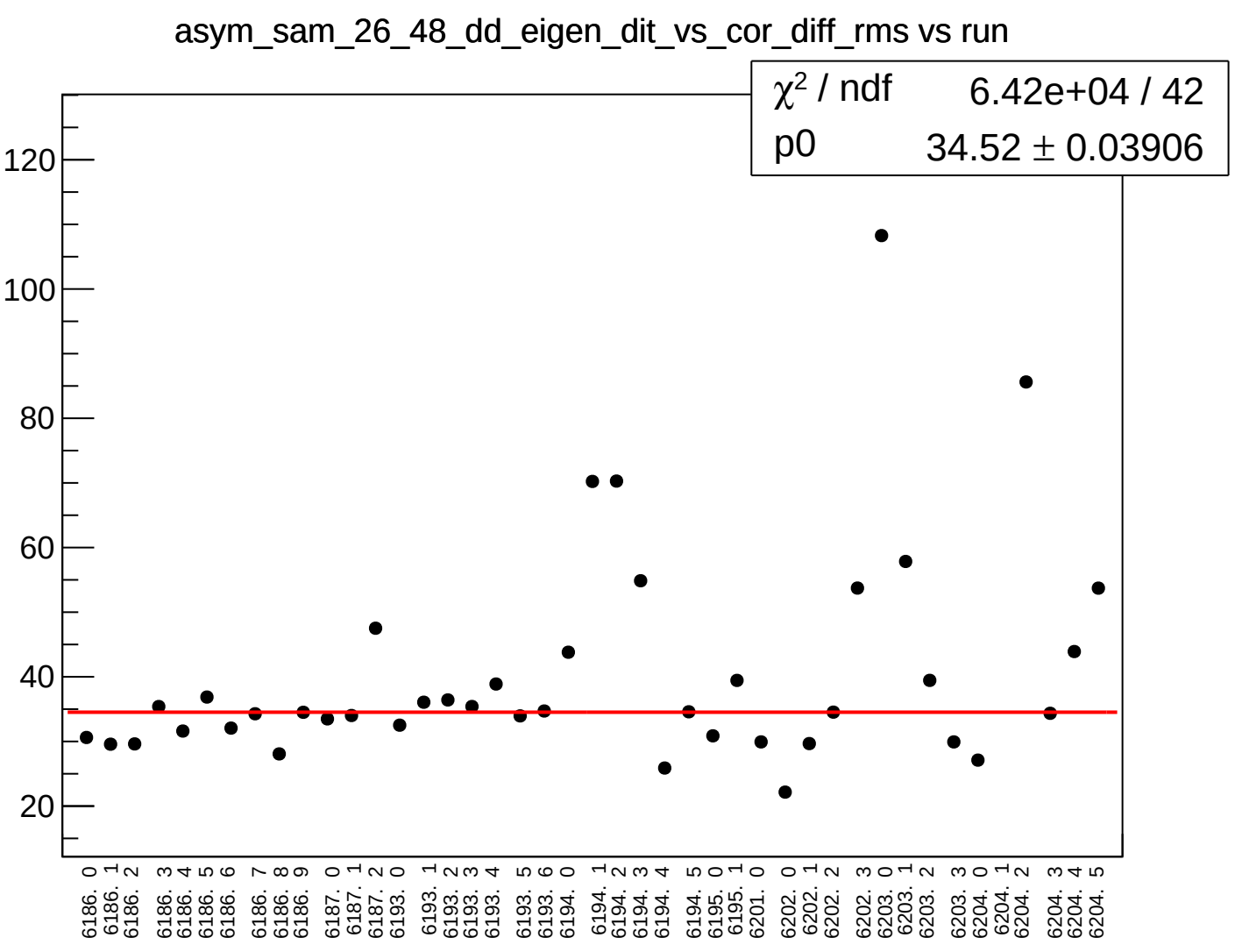

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 59.46 / 42
p0 2.167e−06 ± 1.029e−05
pull
Entries 43
Mean 963.8
Std Dev 0


pull1D
Entries 43
Mean 0.002461
Std Dev 1.176

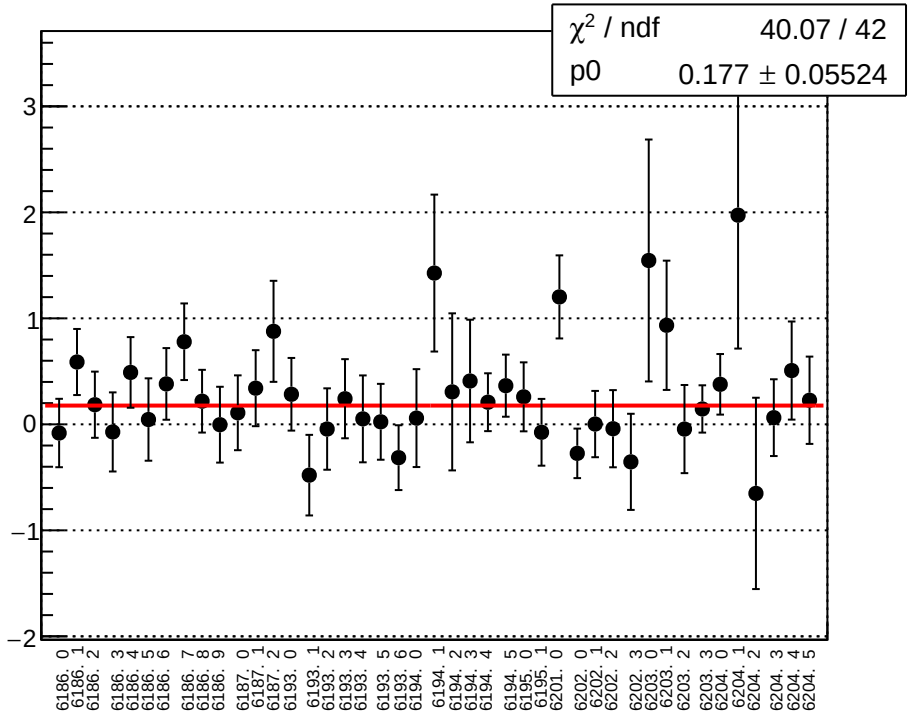

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3586 / 42
p0 0.006677 ± 7.278e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

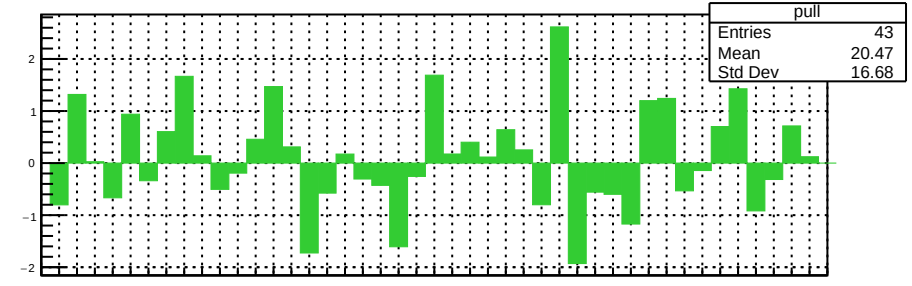

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 40.07 / 42
p0 0.177 ± 0.05524
pull
Entries 43
Mean 20.47
Std Dev 16.68

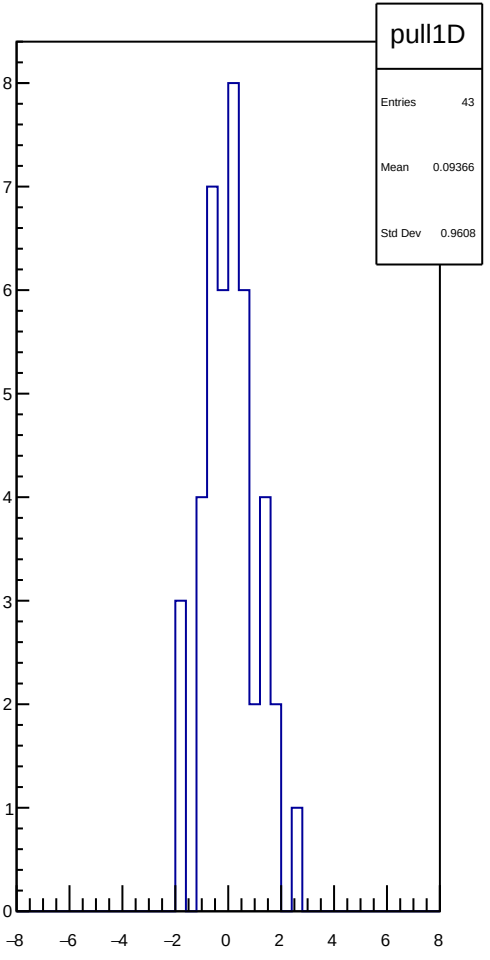

pull1D
Entries 43
Mean 0.09366
Std Dev 0.9608

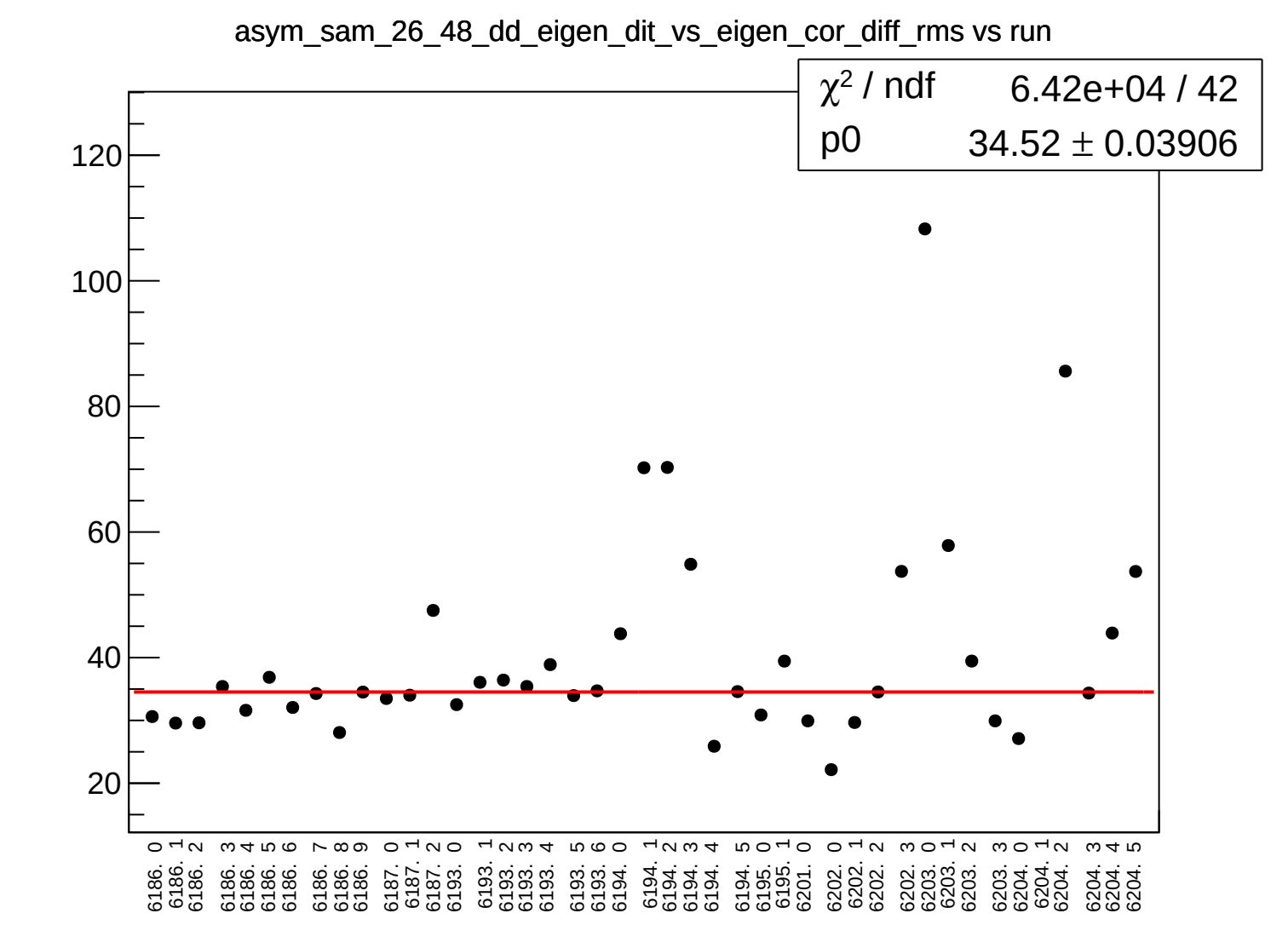

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.42e+04 / 42
p0 34.52 ± 0.03906
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

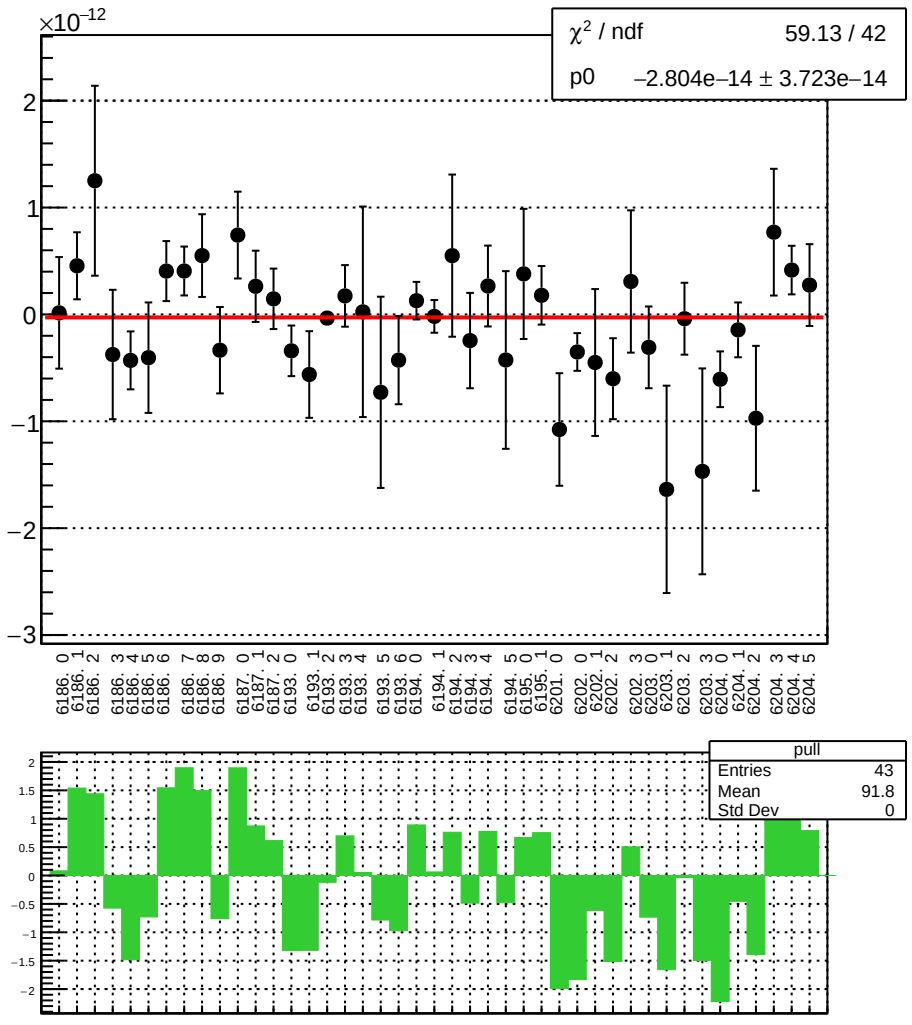
asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

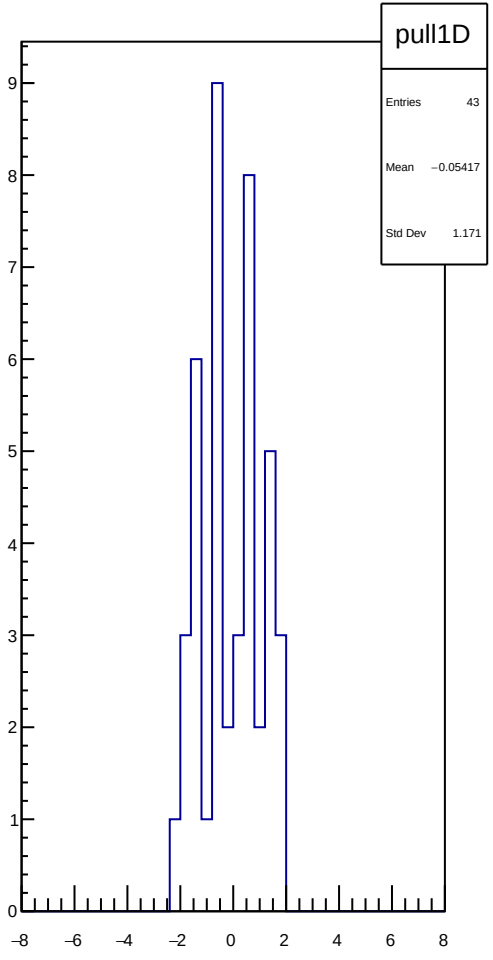


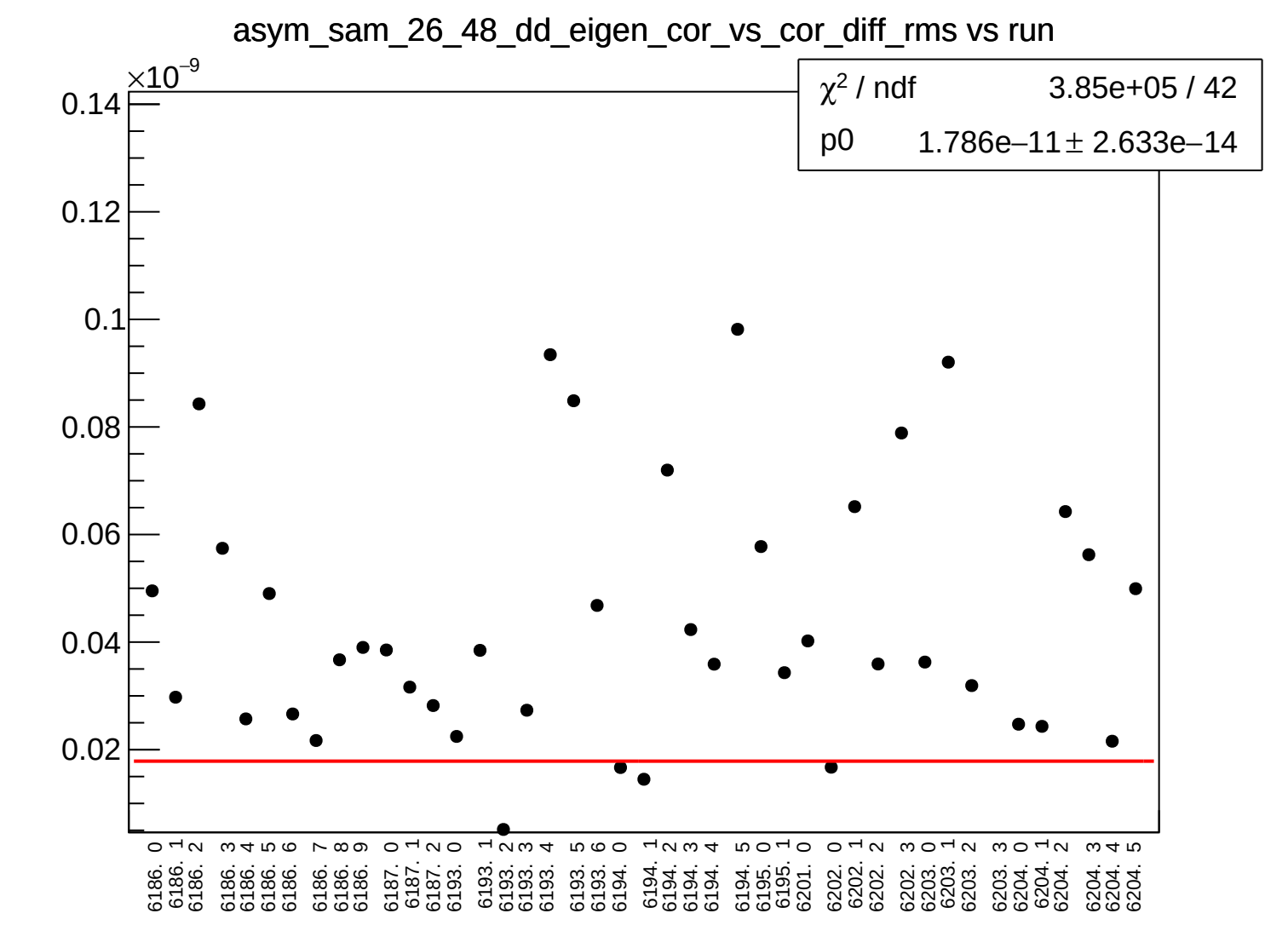


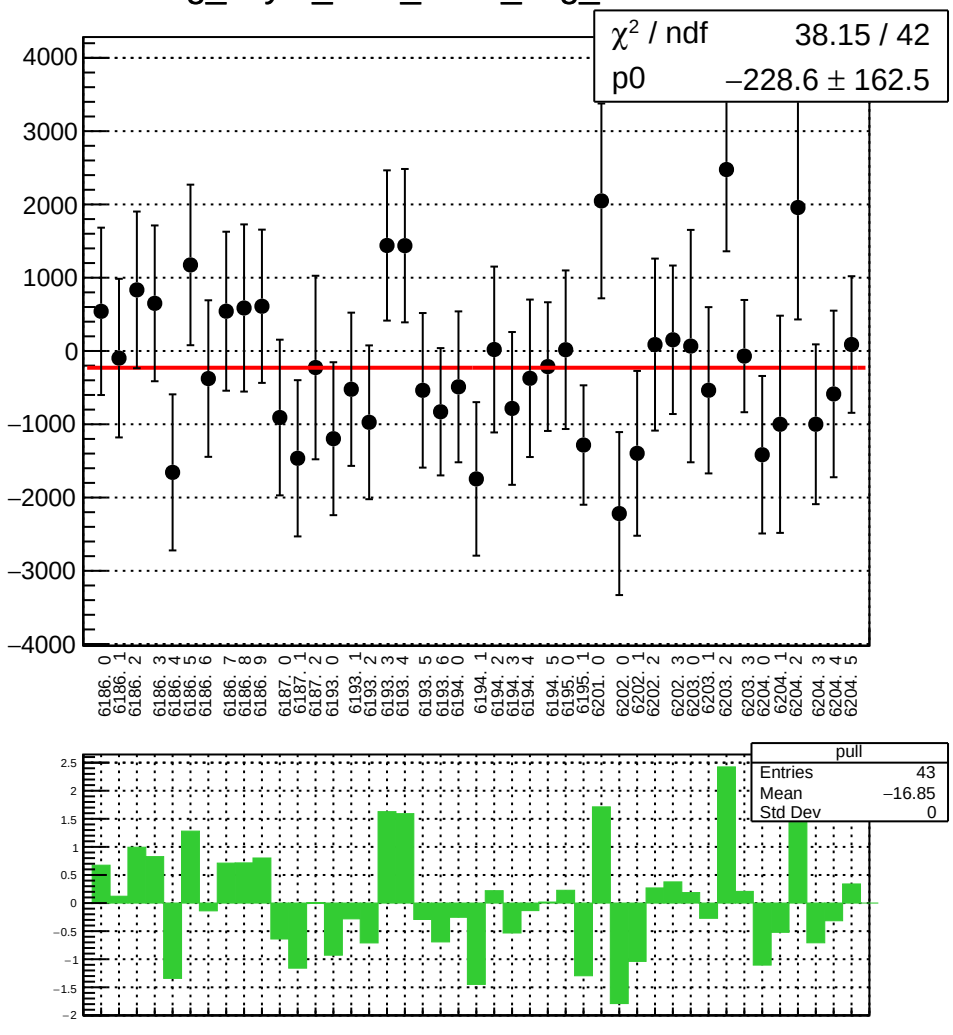


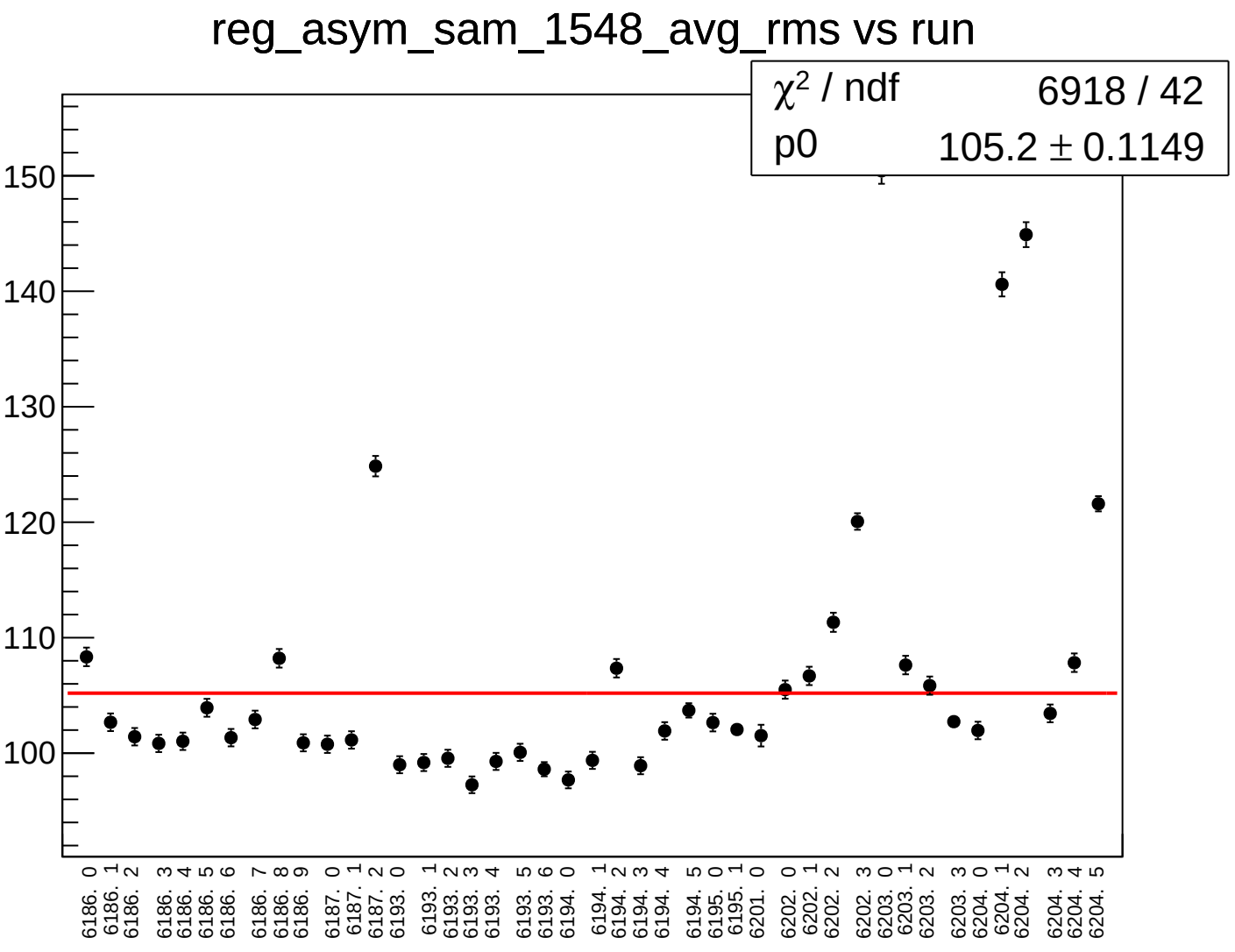

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.42e+04 / 42
p0 34.52 ± 0.03906
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

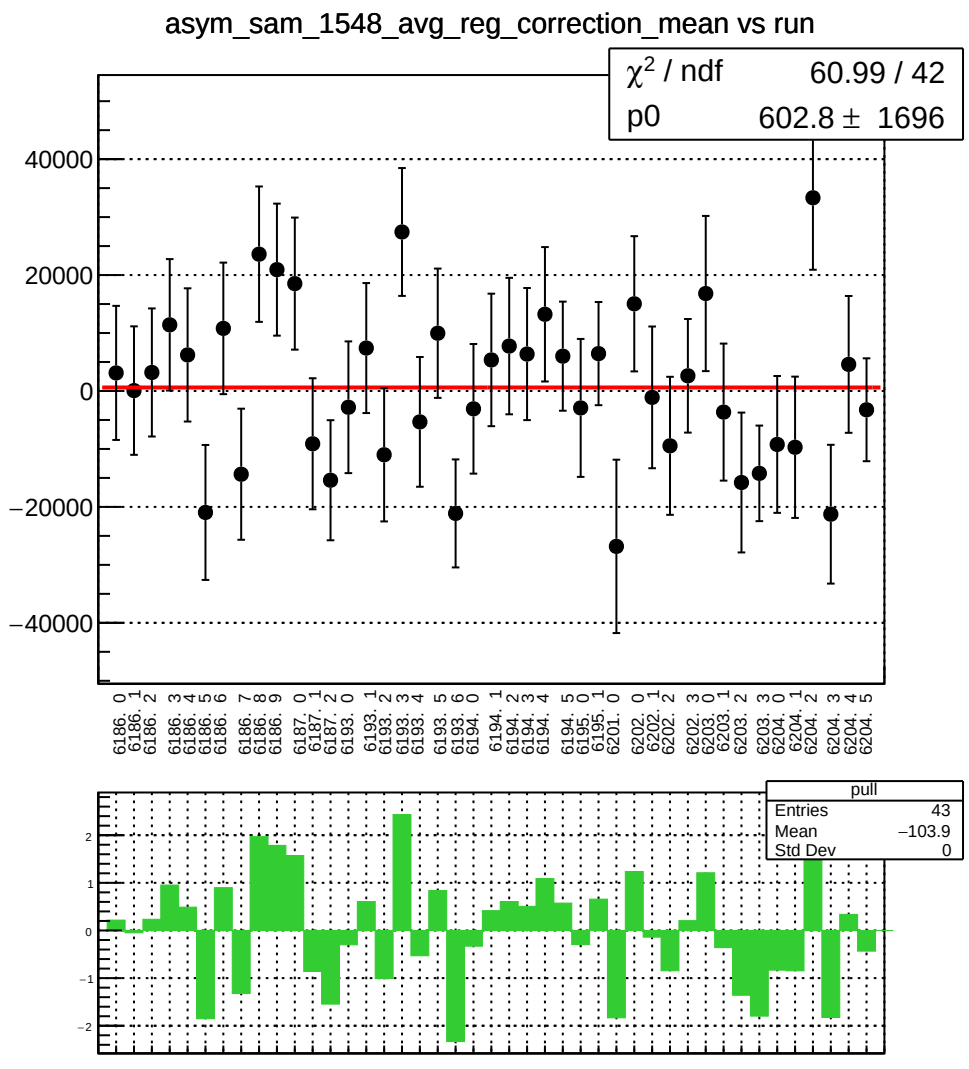

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 59.13 / 42
p0 −2.804e−14 ± 3.723e−14
pull
Entries 43
Mean 91.8
Std Dev 0

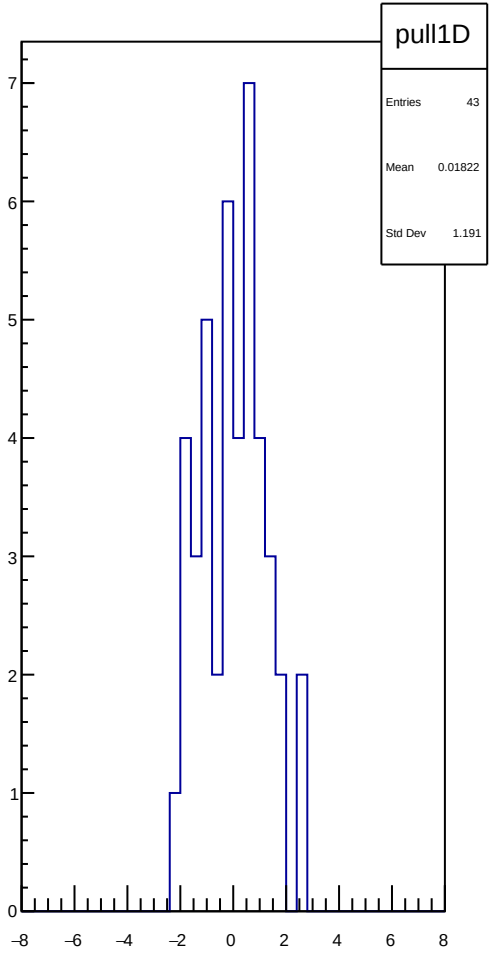

pull1D
Entries 43
Mean −0.05417
Std Dev 1.171

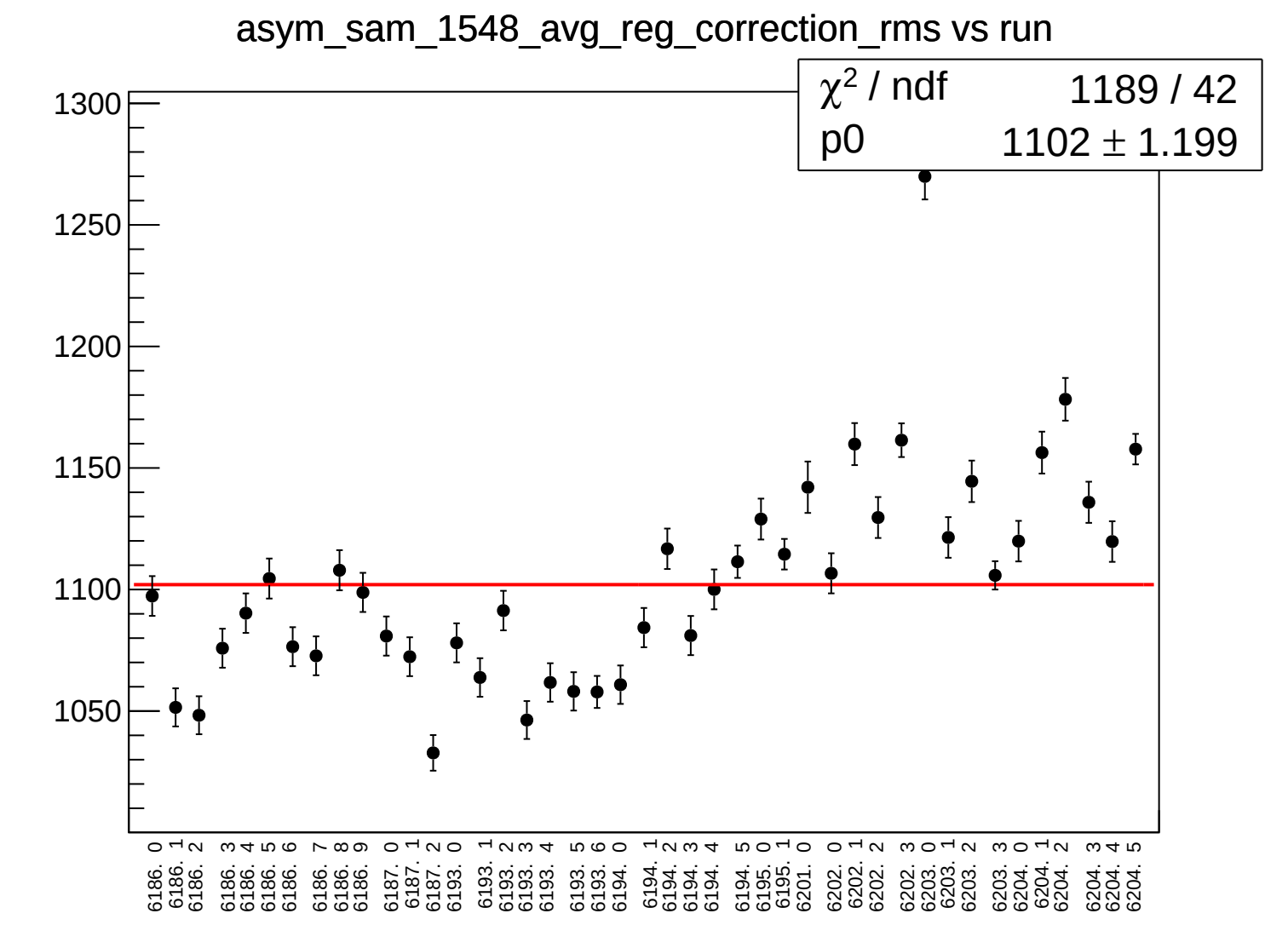

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.85e+05 / 42
p0 1.786e−11 ± 2.633e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

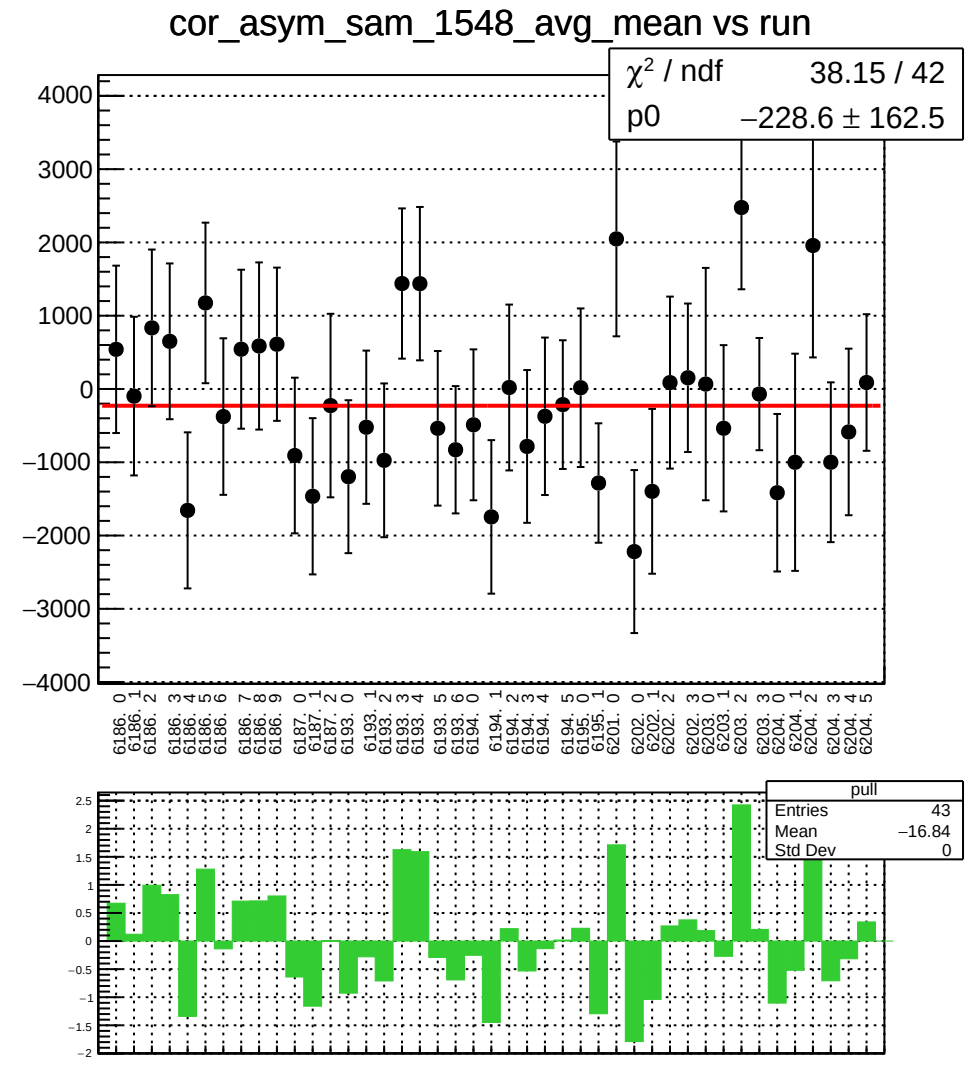

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 38.15 / 42
p0 −228.6 ± 162.5
pull
Entries 43
Mean −16.85
Std Dev 0
pull1D
Entries 43
Mean 0.02717
Std Dev 0.9415

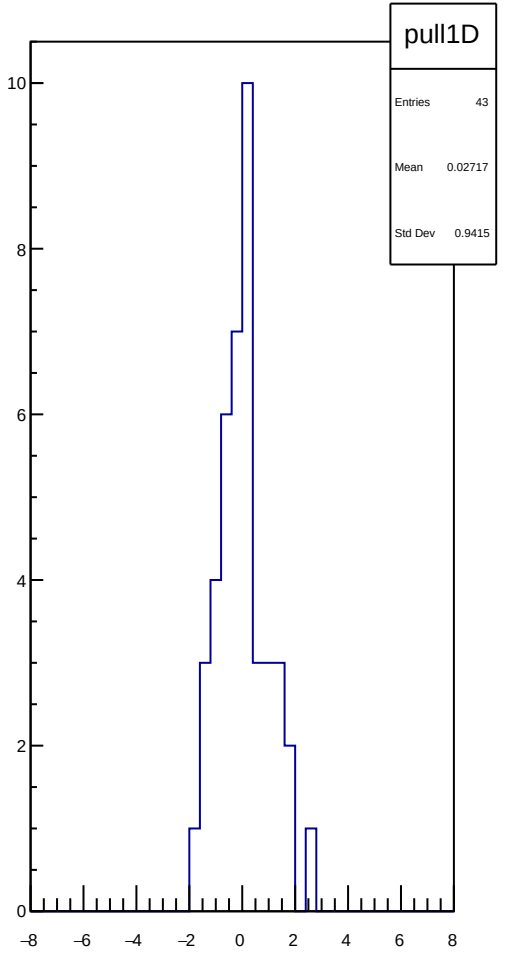

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 6918 / 42
p0 105.2 ± 0.1149
150
140
130
120
110
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

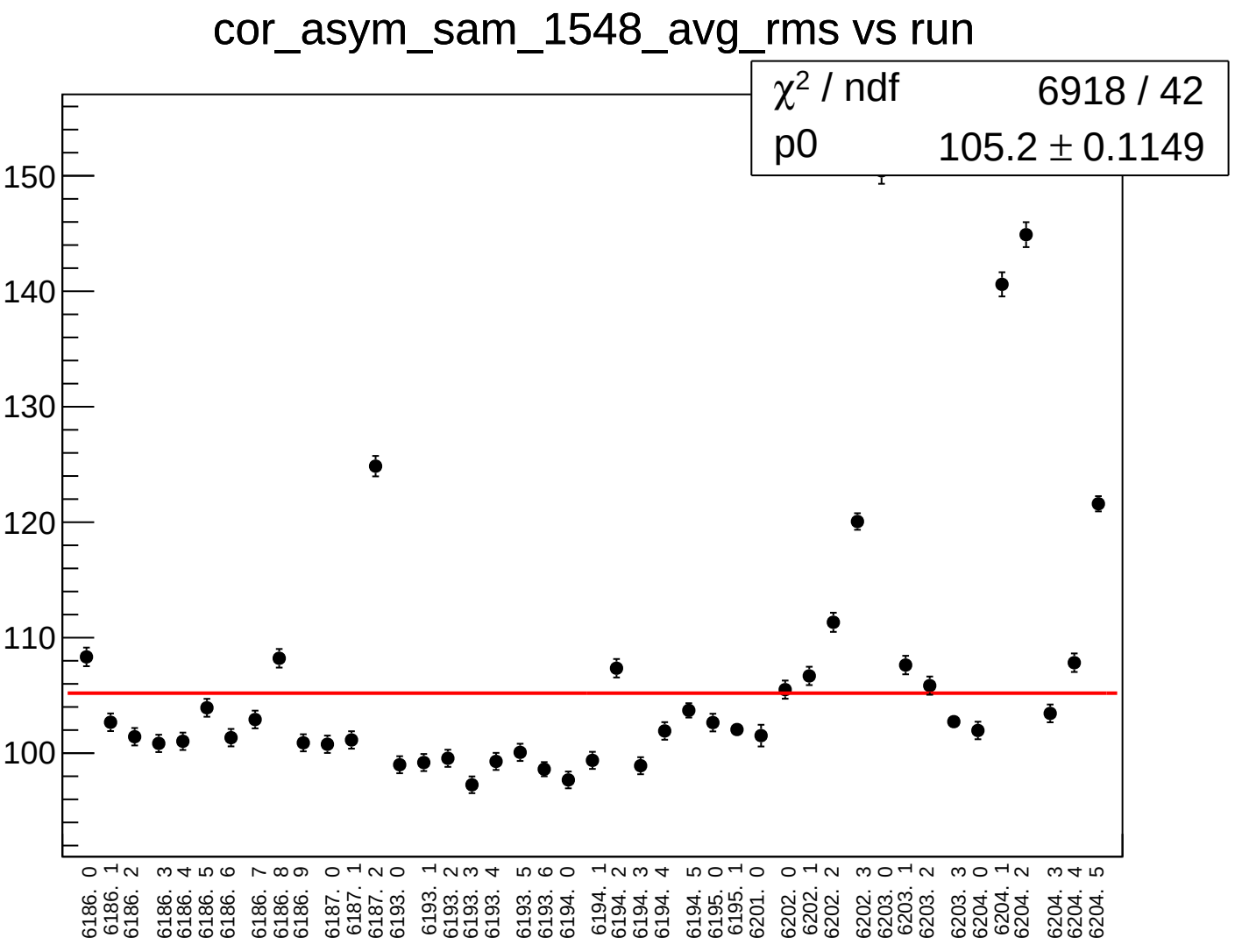

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 60.99 / 42
p0 602.8 ± 1696
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −103.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.01822
Std Dev 1.191
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1189 / 42
p0 1102 ± 1.199
1300
1250
1200
1150
1100
1050
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_sam_1548_avg_mean vs run
χ² / ndf 38.15 / 42
p0 −228.6 ± 162.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −16.84
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 43
Mean 0.02717
Std Dev 0.9415
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_1548_avg_rms vs run
χ² / ndf 6918 / 42
p0 105.2 ± 0.1149
150
140
130
120
110
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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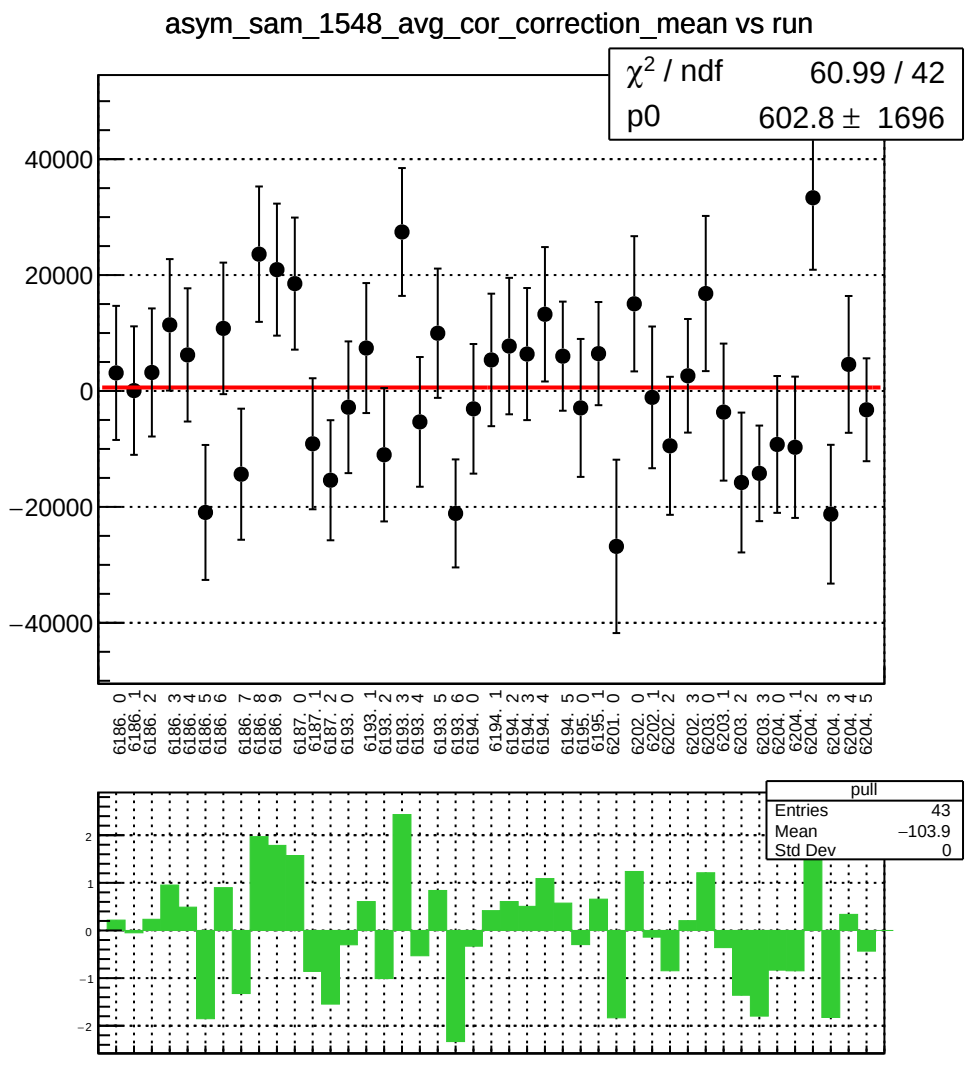
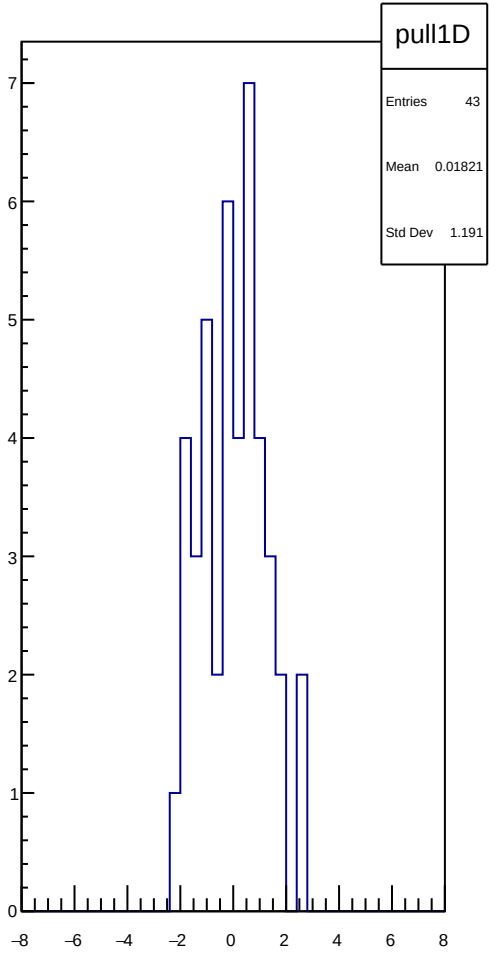
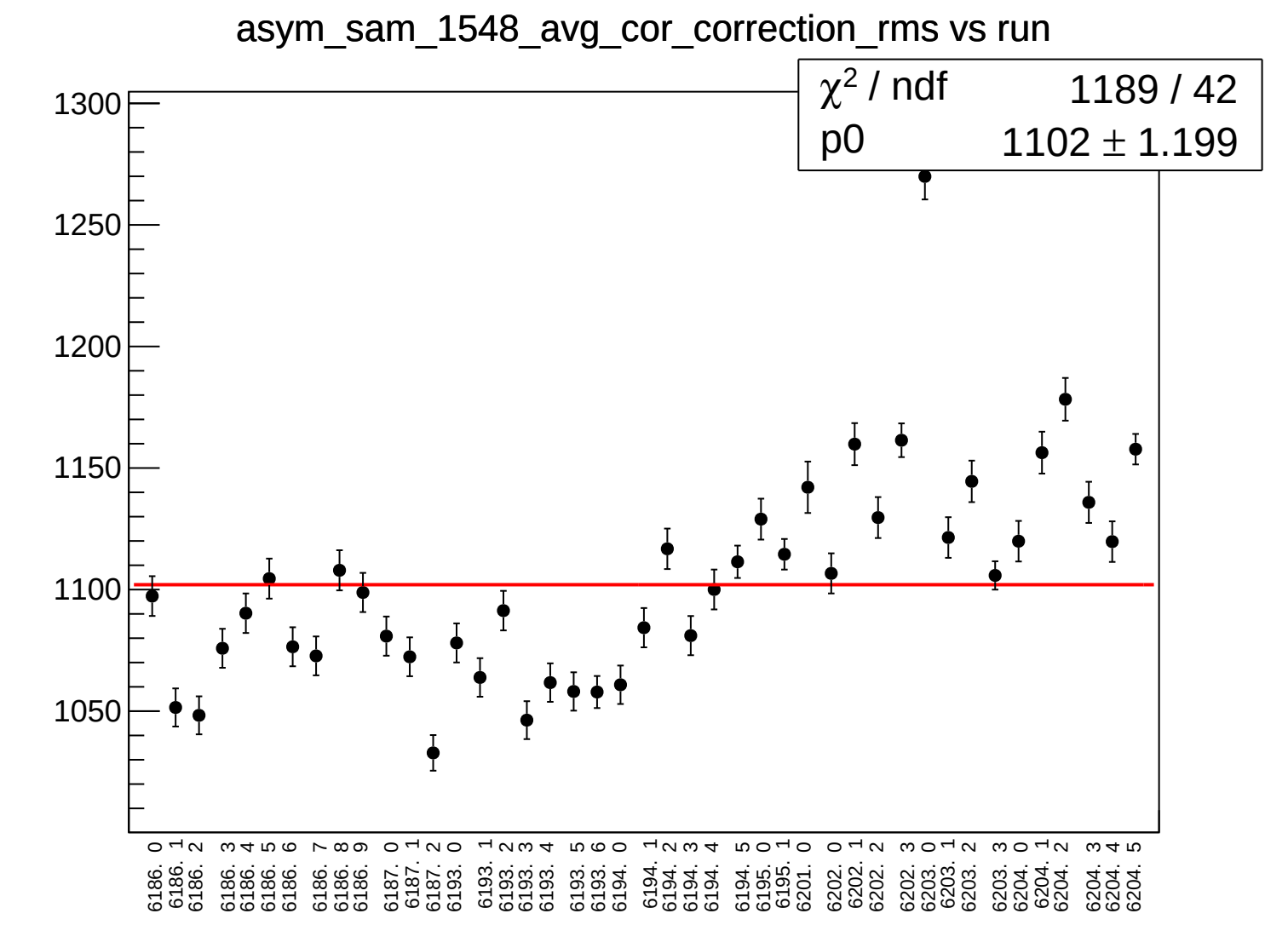
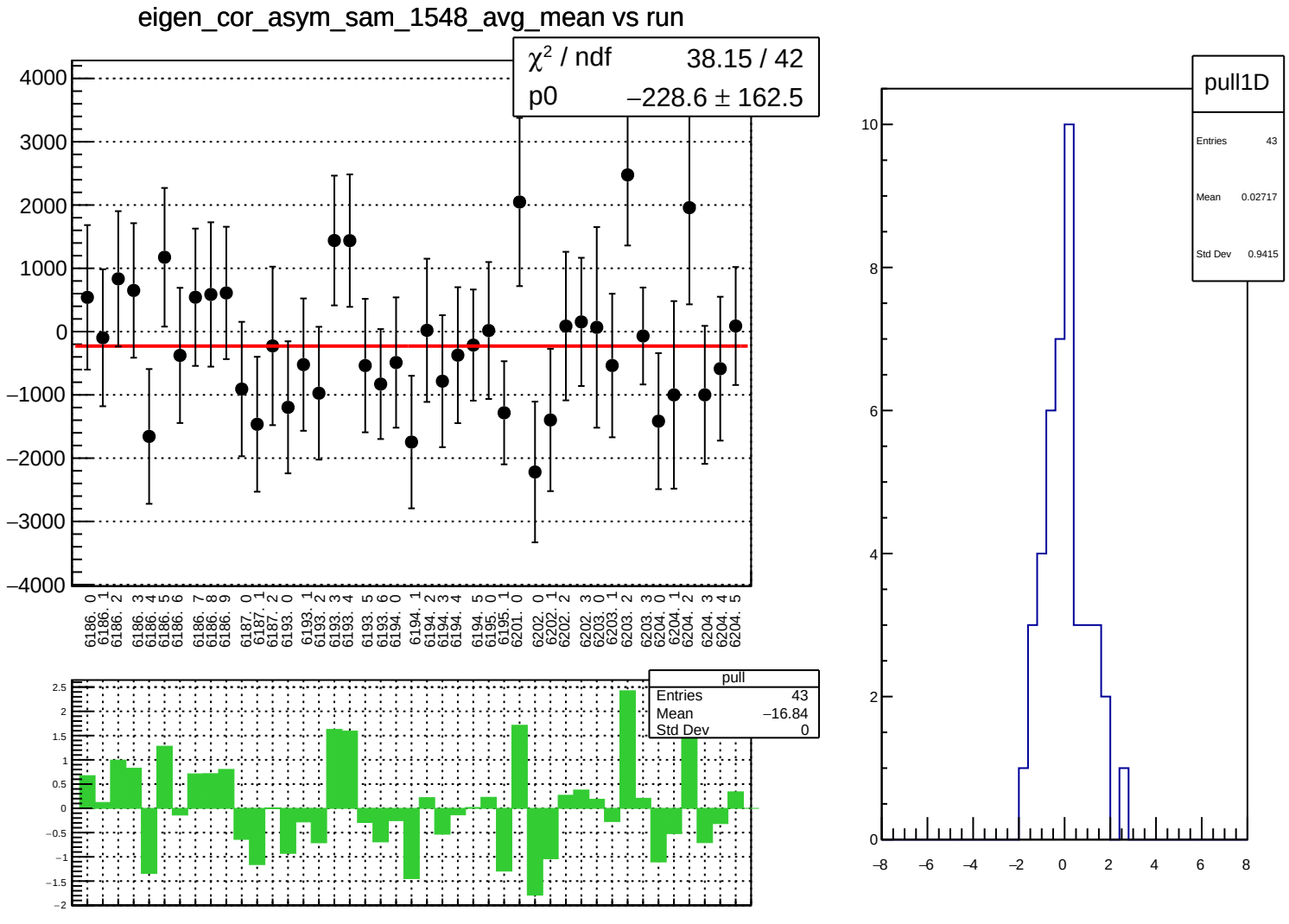
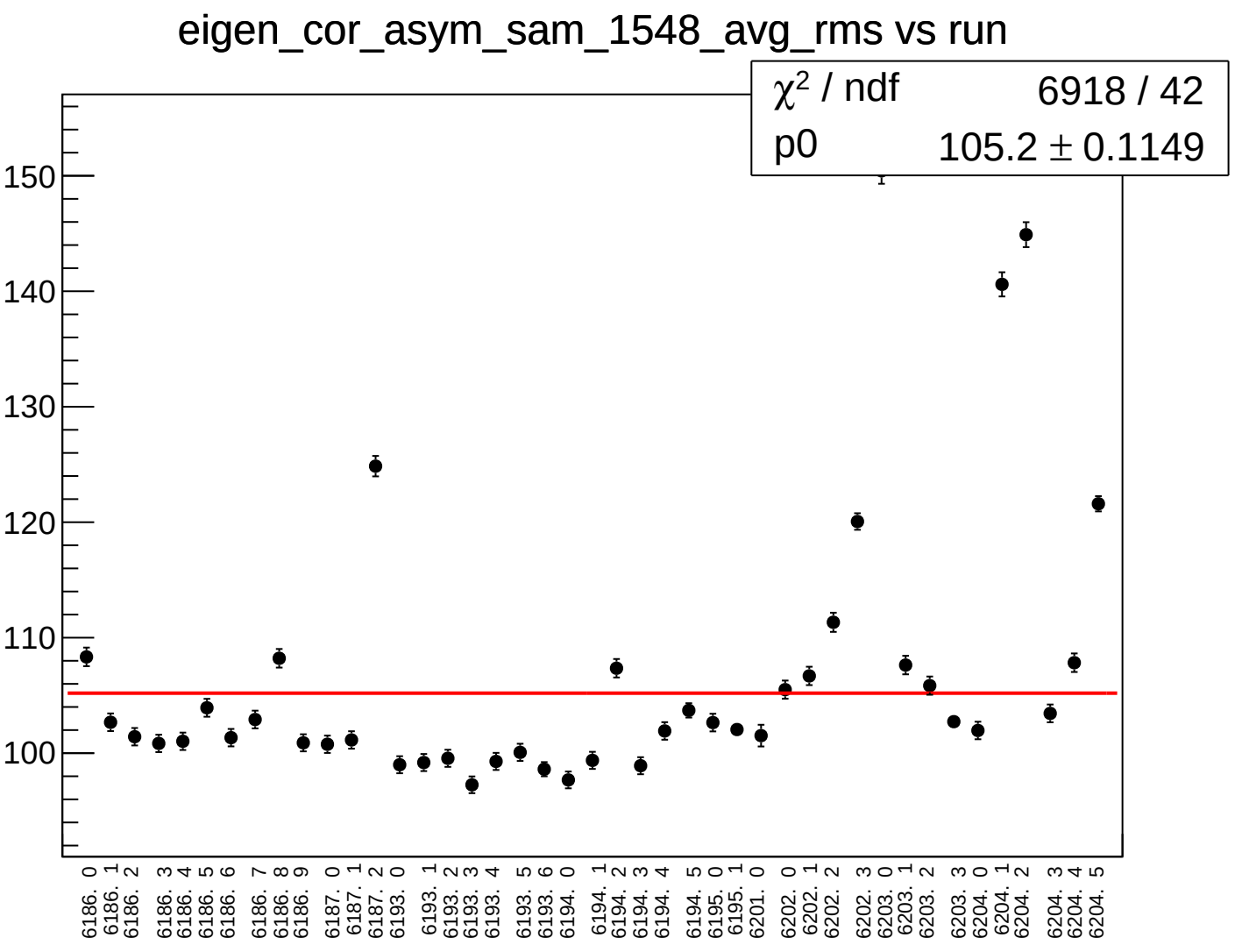
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

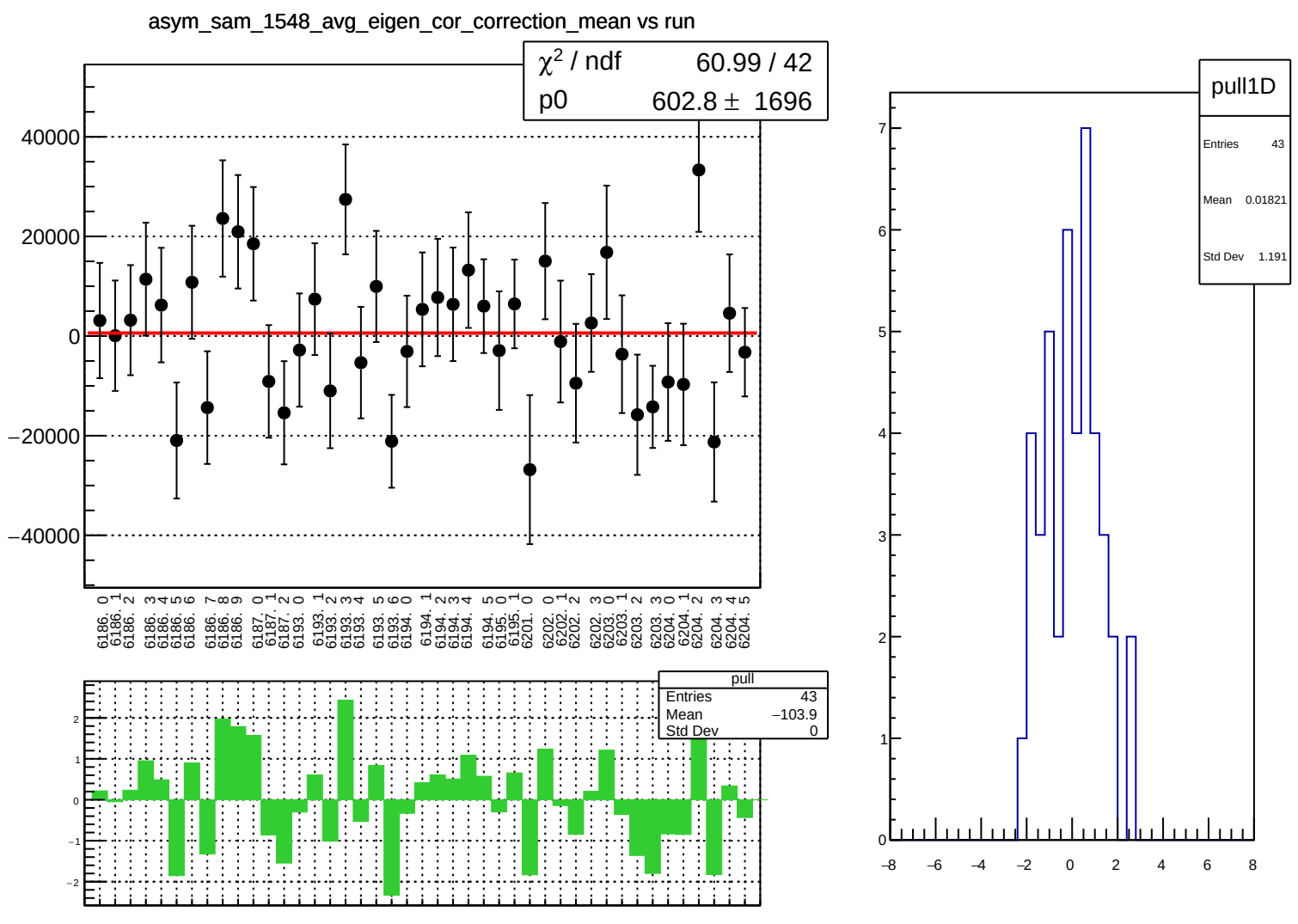

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 60.99 / 42
p0 602.8 ± 1696
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −103.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.01821
Std Dev 1.191
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1189 / 42
p0 1102 ± 1.199
1300
1250
1200
1150
1100
1050
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 38.15 / 42
p0 −228.6 ± 162.5
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −16.84
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02717
Std Dev 0.9415
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 6918 / 42
p0 105.2 ± 0.1149
150
140
130
120
110
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 60.99 / 42
p0 602.8 ± 1696
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
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6194. 0
6194. 1
6194. 2
6194. 3
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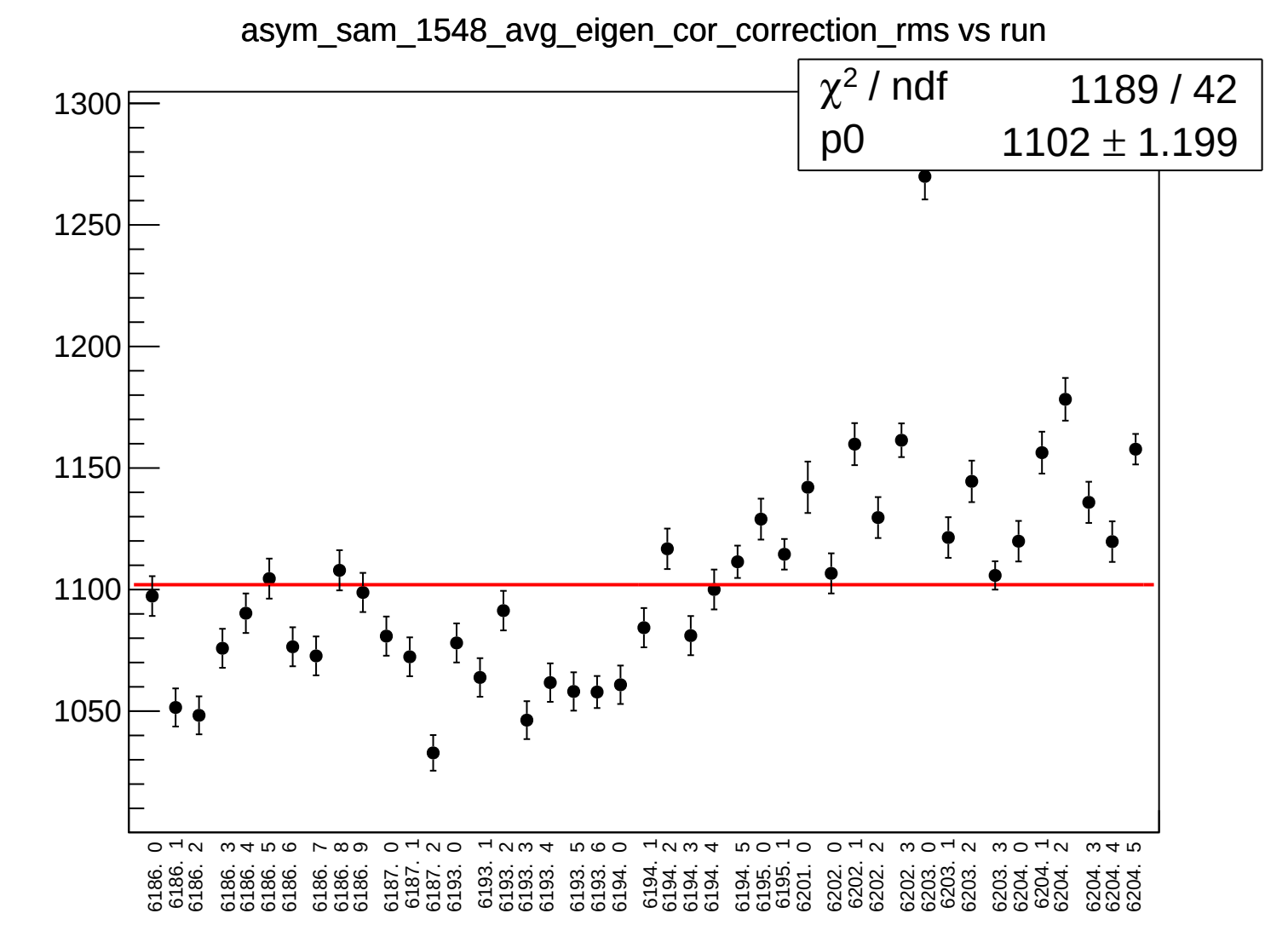
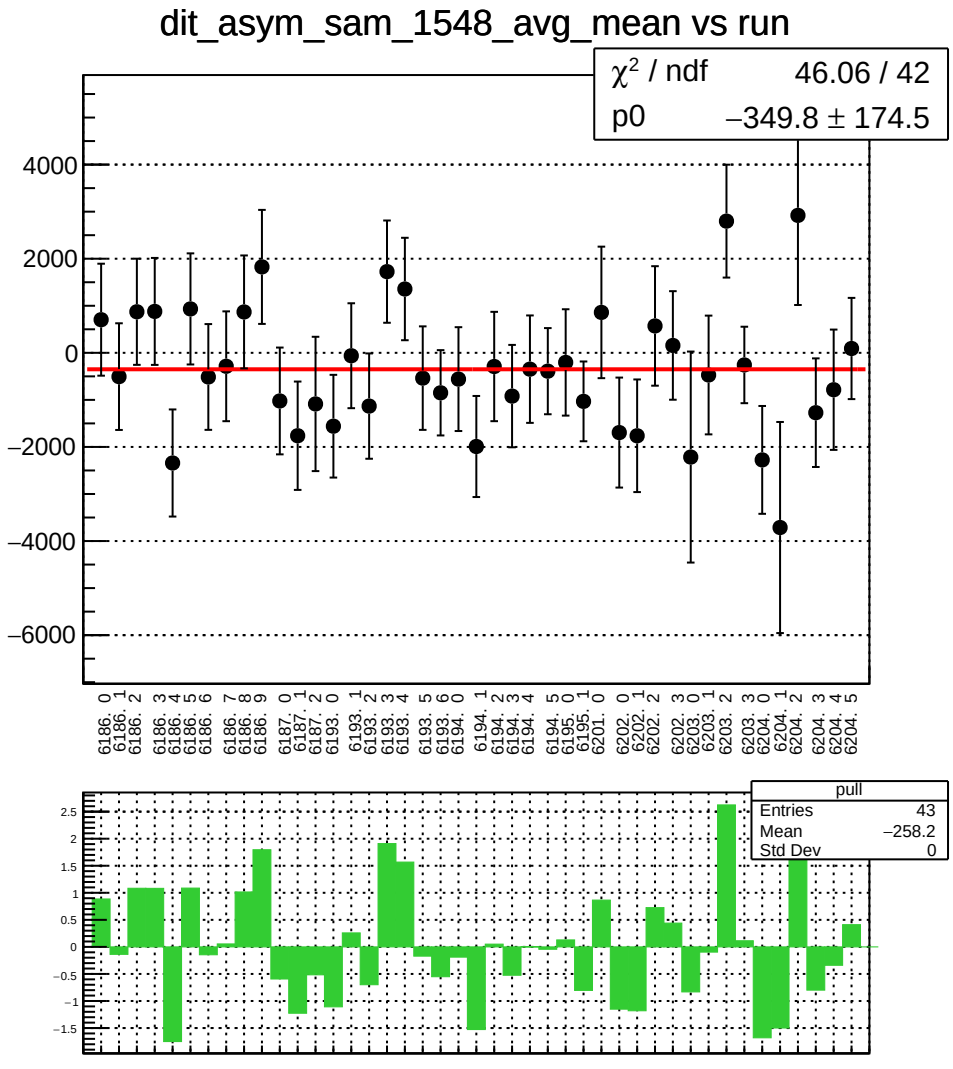
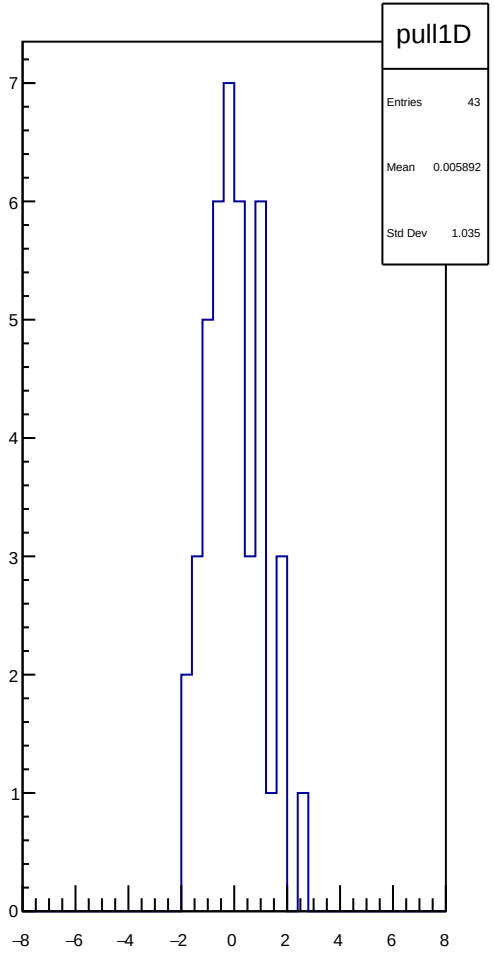
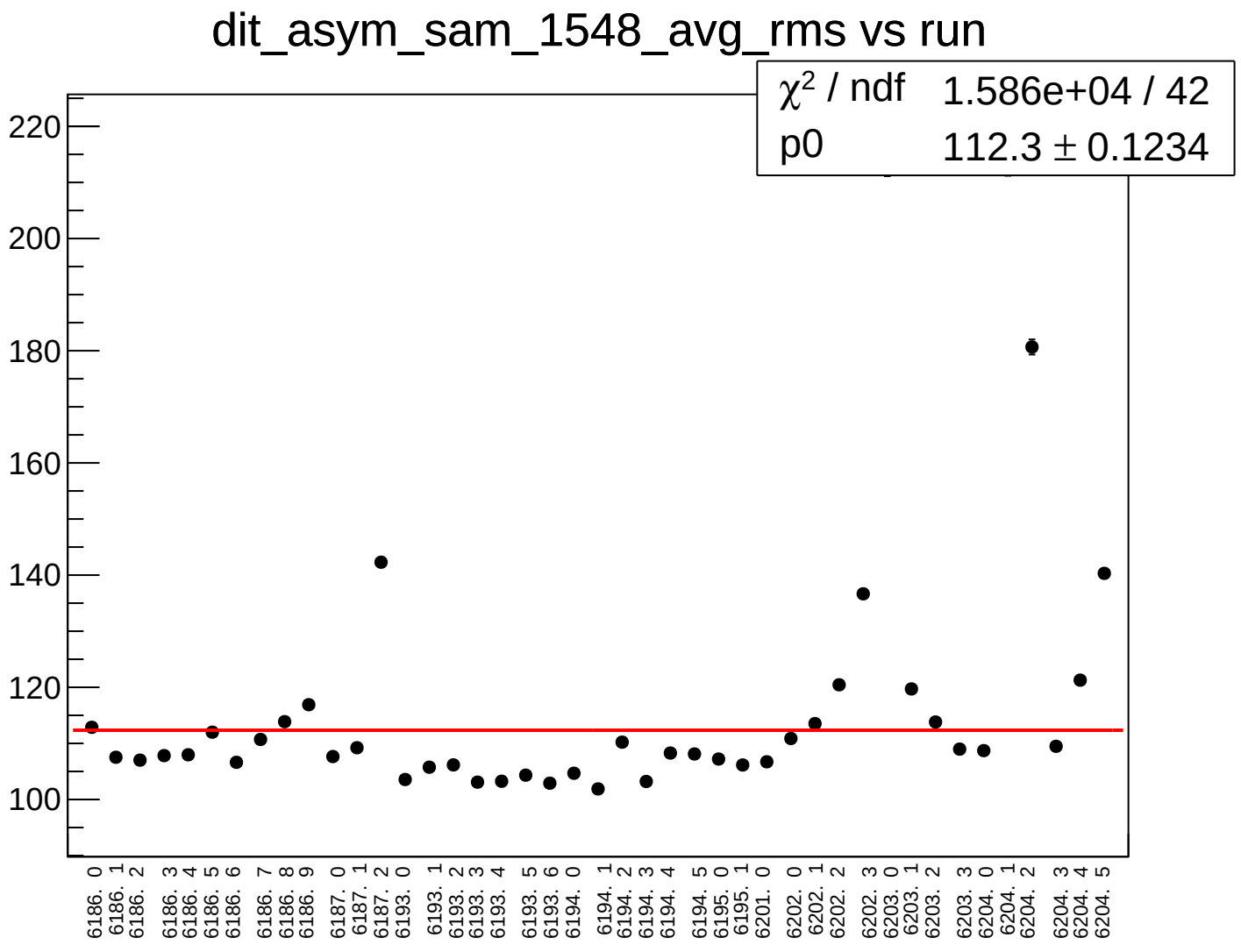
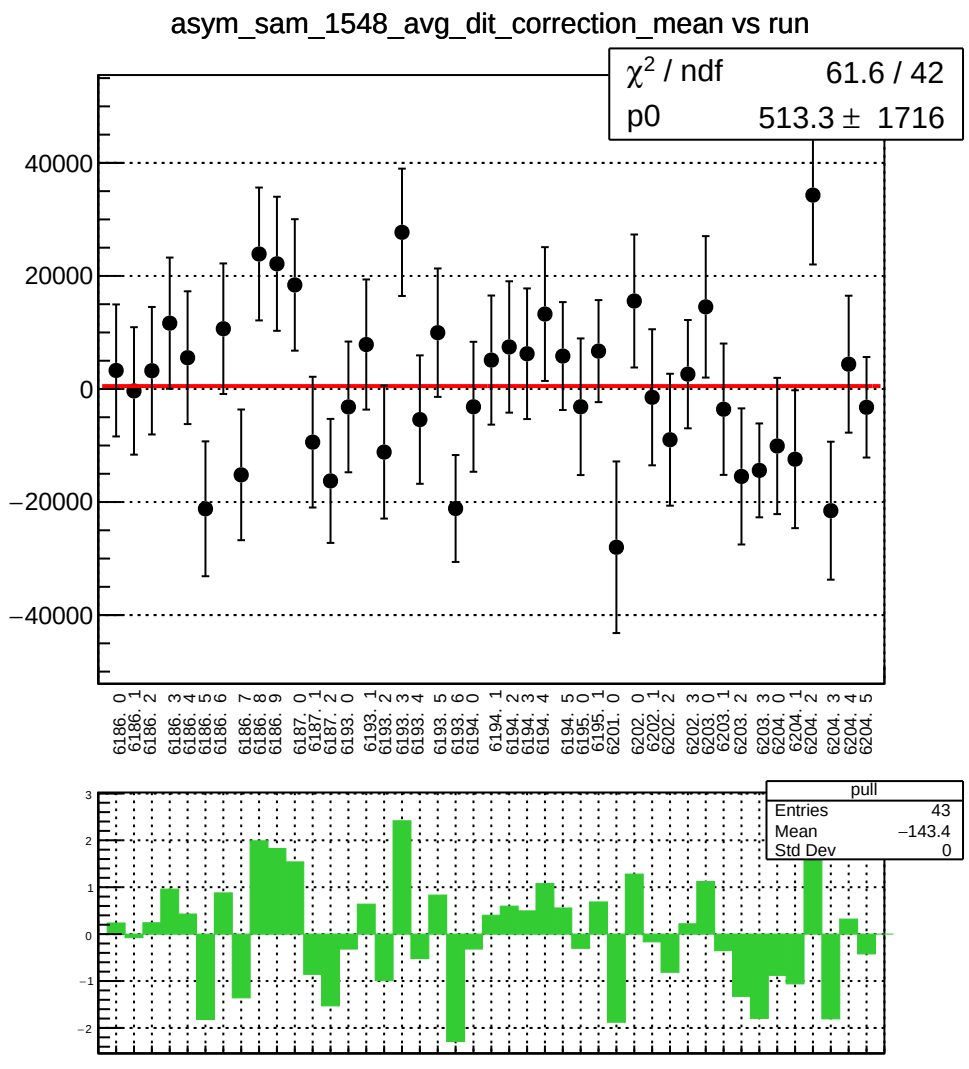
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −103.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01821
Std Dev 1.191
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

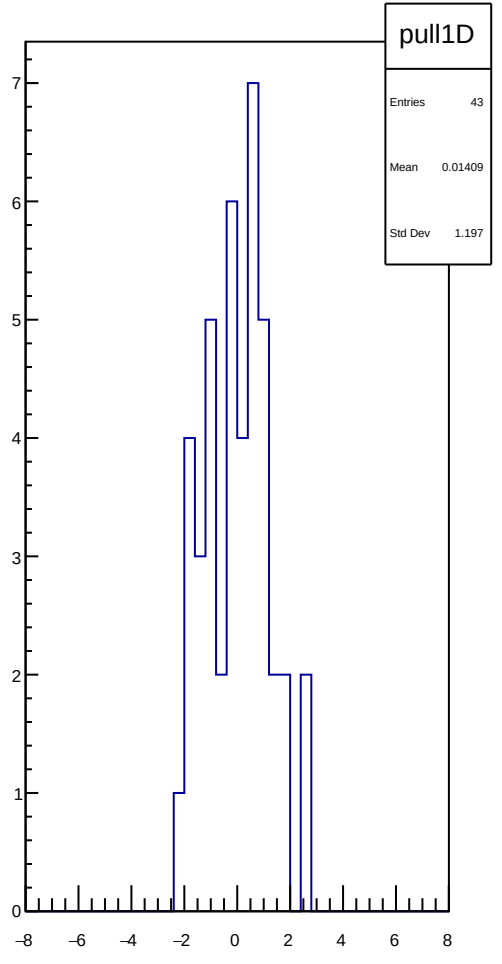

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1189 / 42
p0 1102 ± 1.199
1300
1250
1200
1150
1100
1050
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

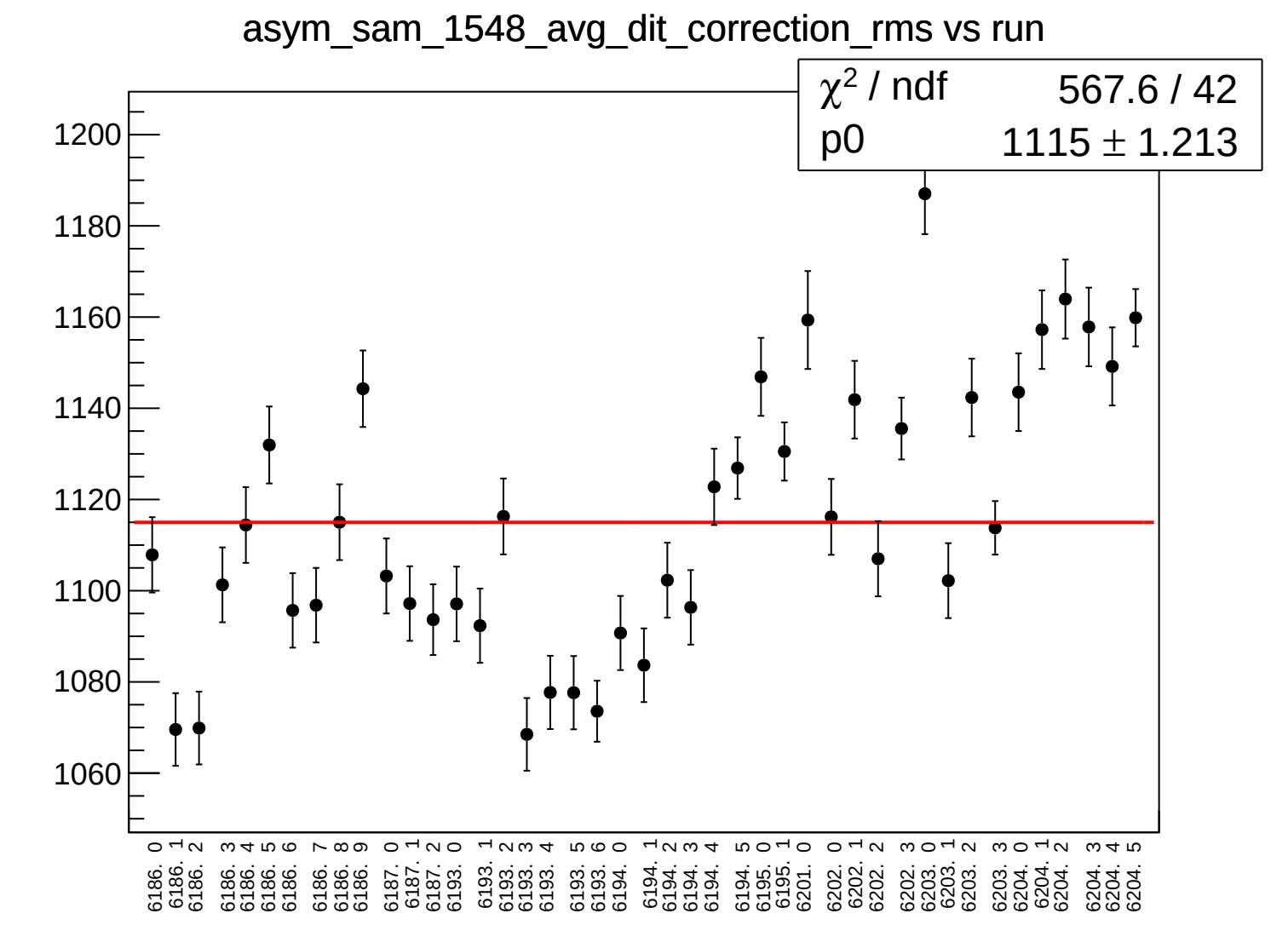

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 46.06 / 42
p0 −349.8 ± 174.5
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −258.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

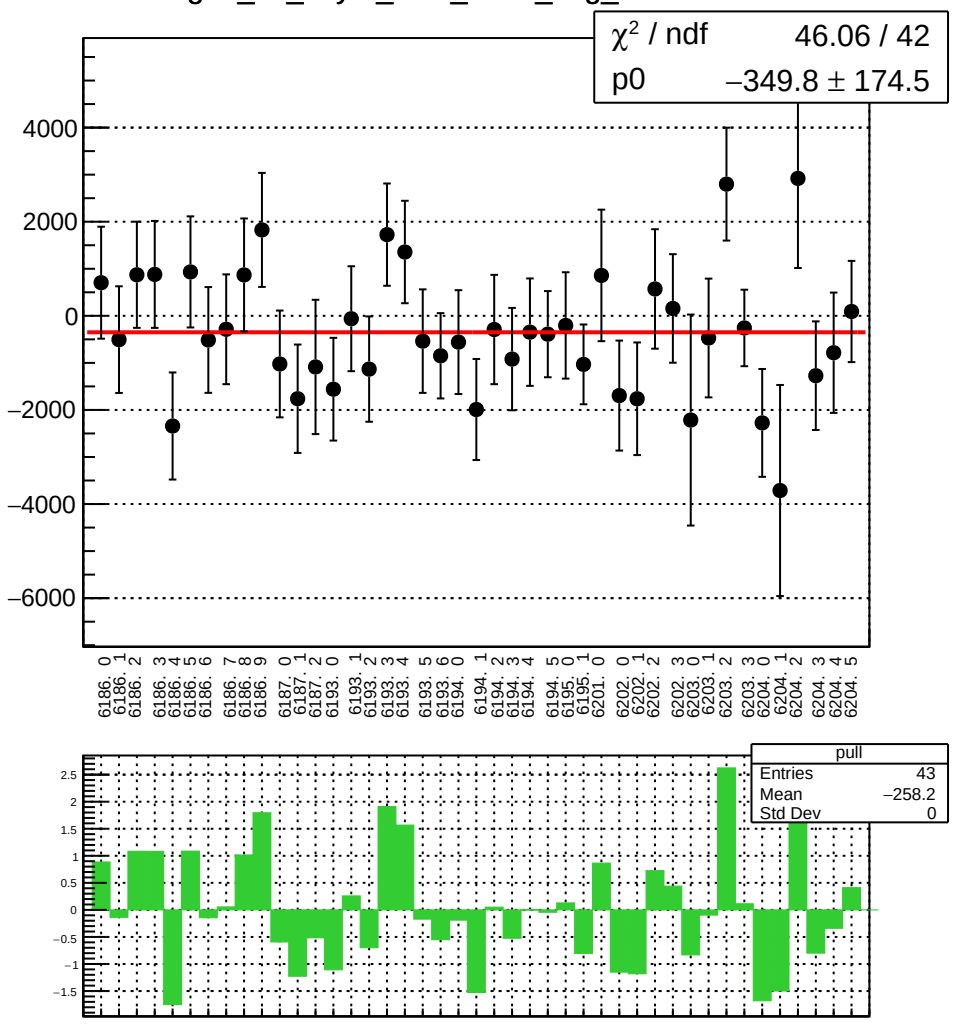

pull1D
Entries 43
Mean 0.005892
Std Dev 1.035
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

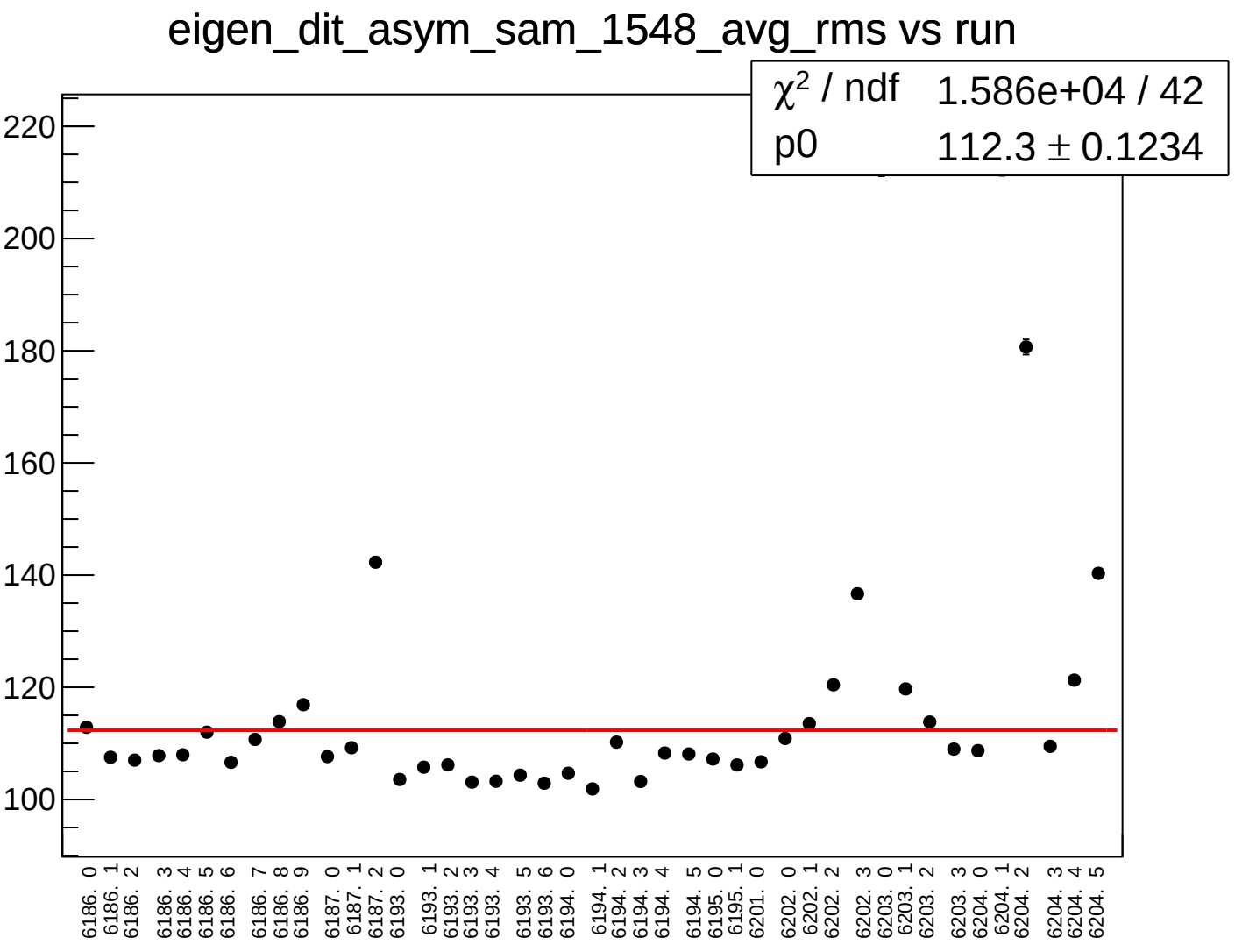

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.586e+04 / 42
p0 112.3 ± 0.1234
220
200
180
160
140
120
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 61.6 / 42
p0 513.3 ± 1716
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −143.4
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.01409
Std Dev 1.197
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 567.6 / 42
p0 1115 ± 1.213
1200
1180
1160
1140
1120
1100
1080
1060
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 46.06 / 42
p0 −349.8 ± 174.5
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −258.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.005892
Std Dev 1.035
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 1.586e+04 / 42
p0 112.3 ± 0.1234
220
200
180
160
140
120
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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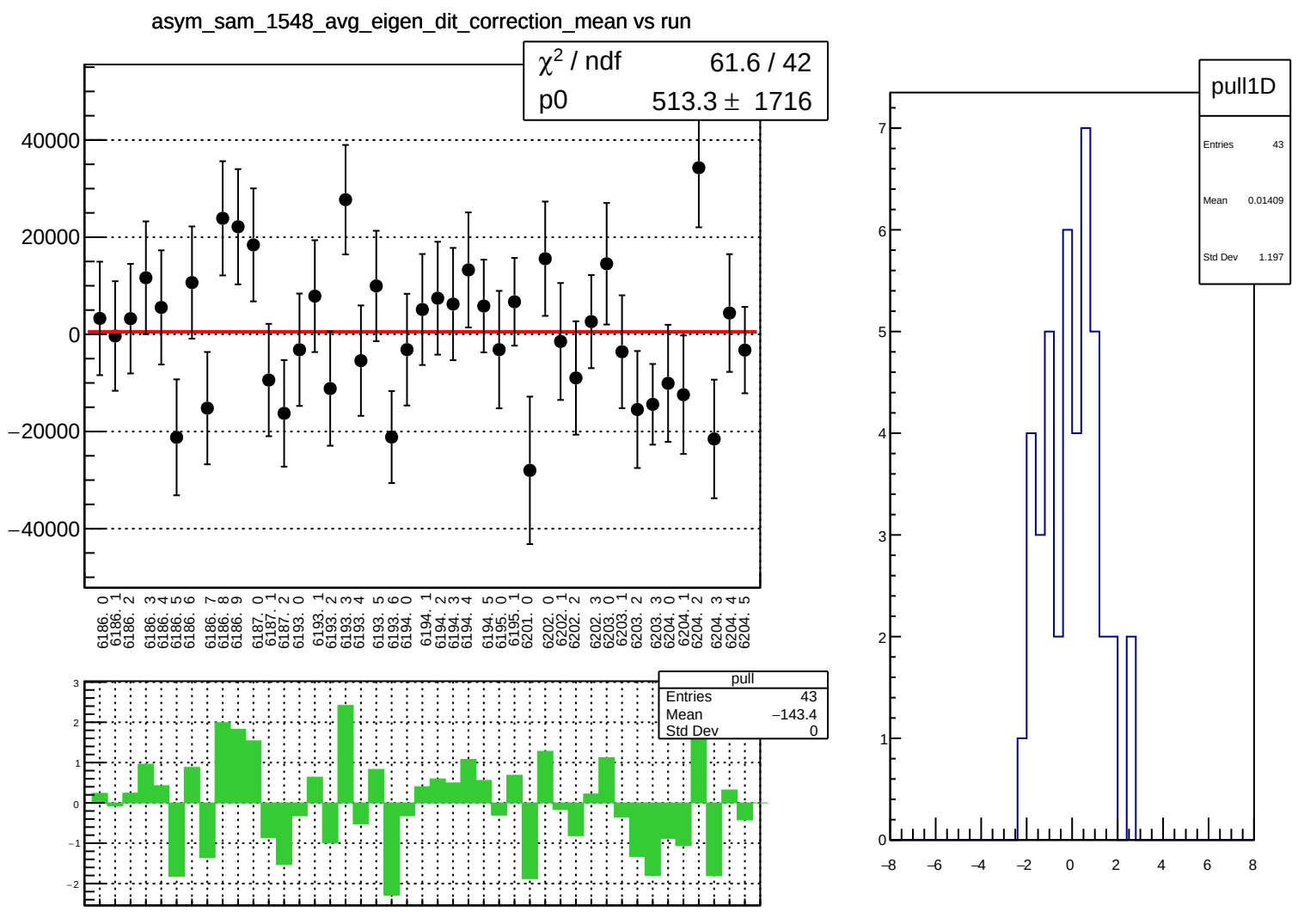
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 61.6 / 42
p0 513.3 ± 1716
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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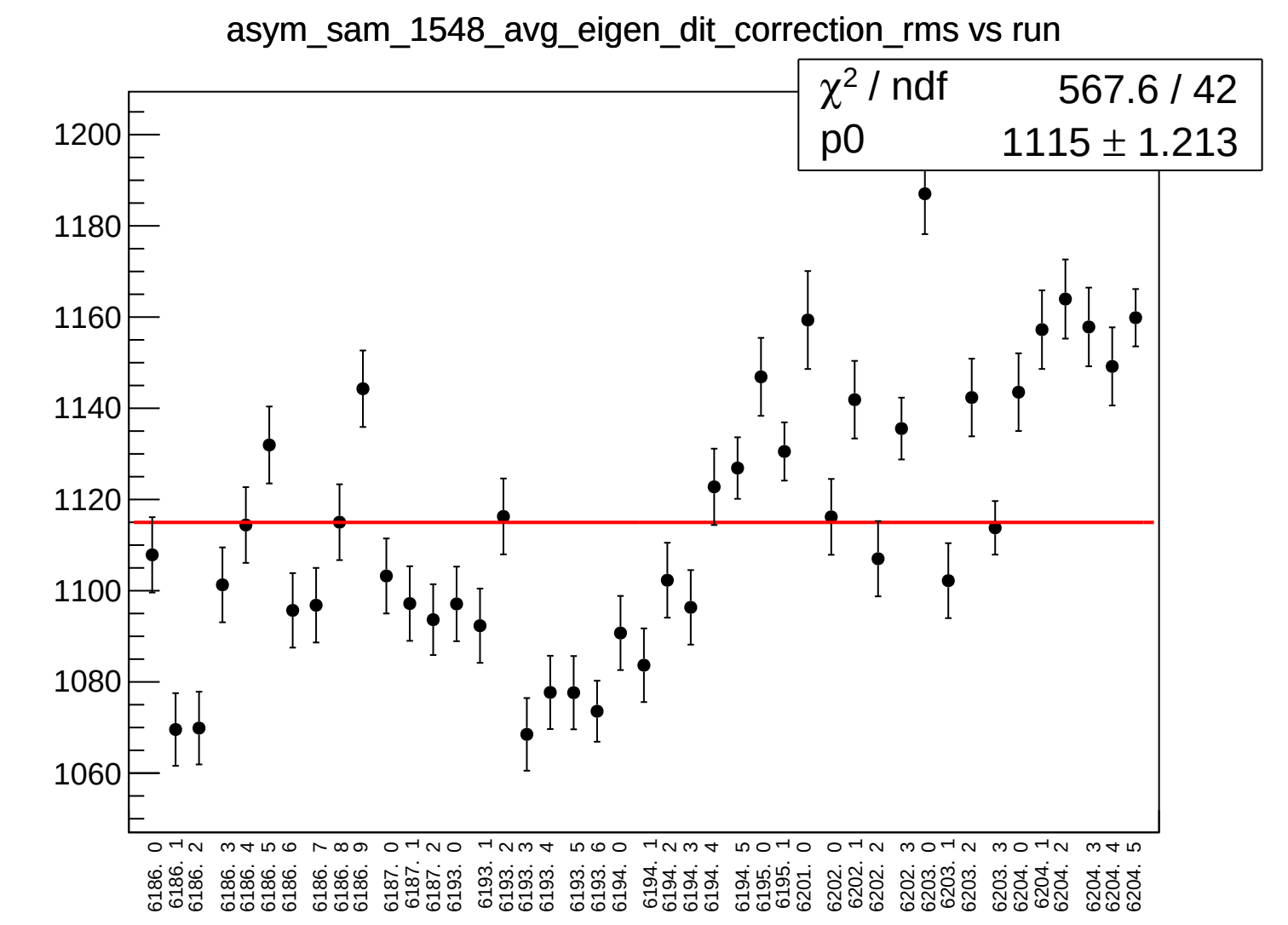
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −143.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01409
Std Dev 1.197
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 567.6 / 42
p0 1115 ± 1.213
1200
1180
1160
1140
1120
1100
1080
1060
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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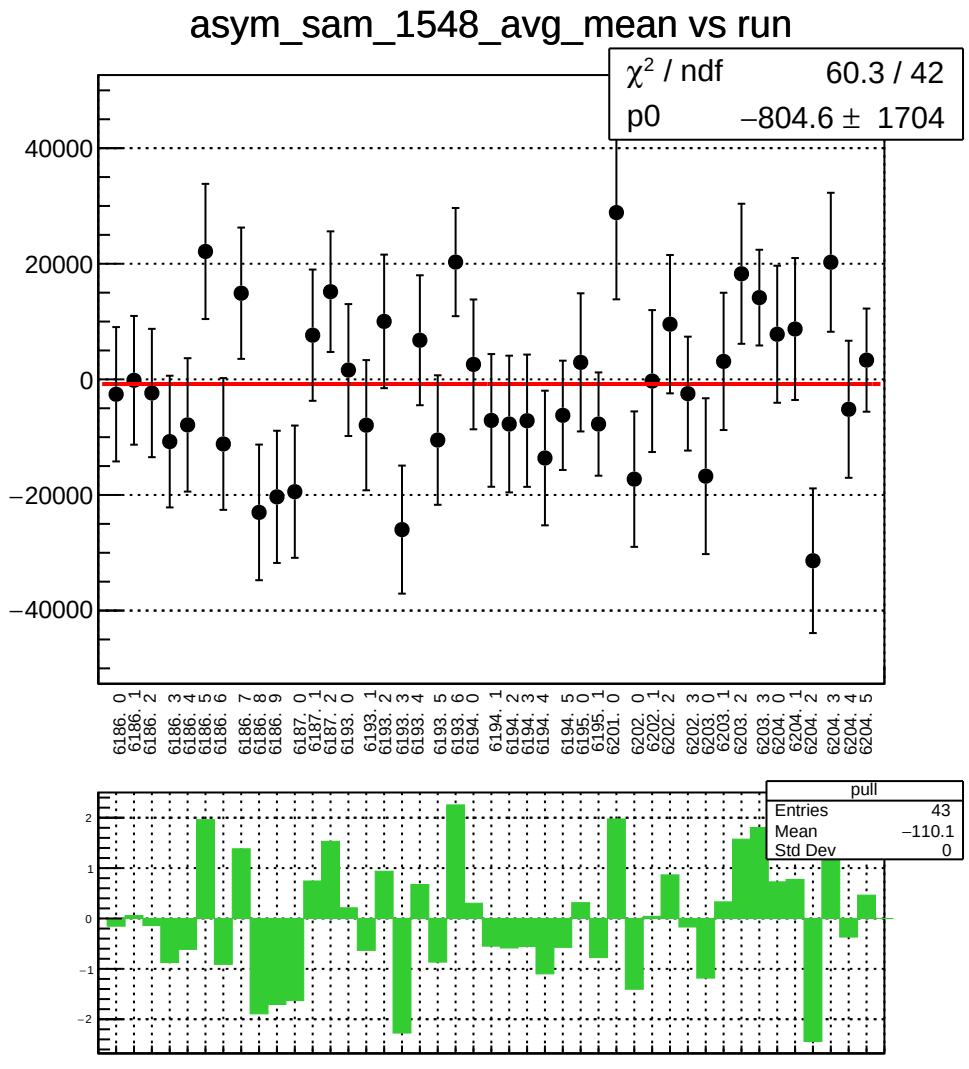
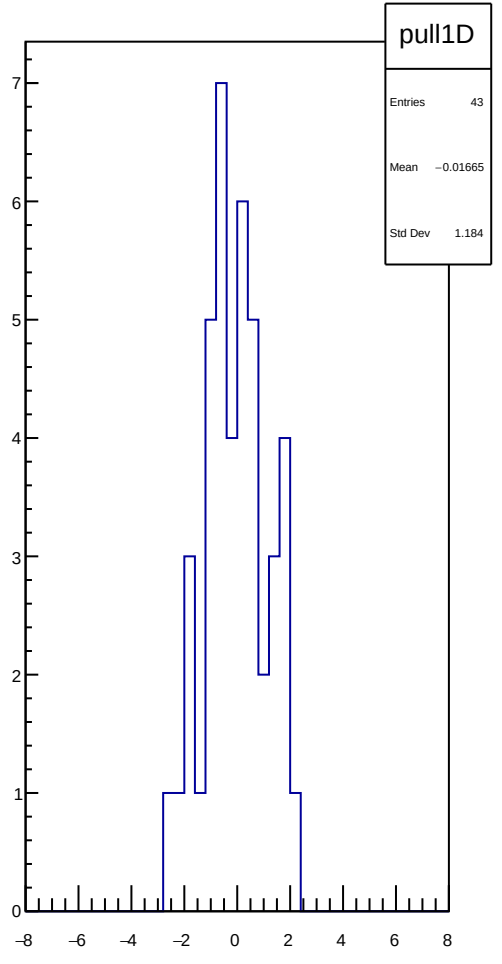
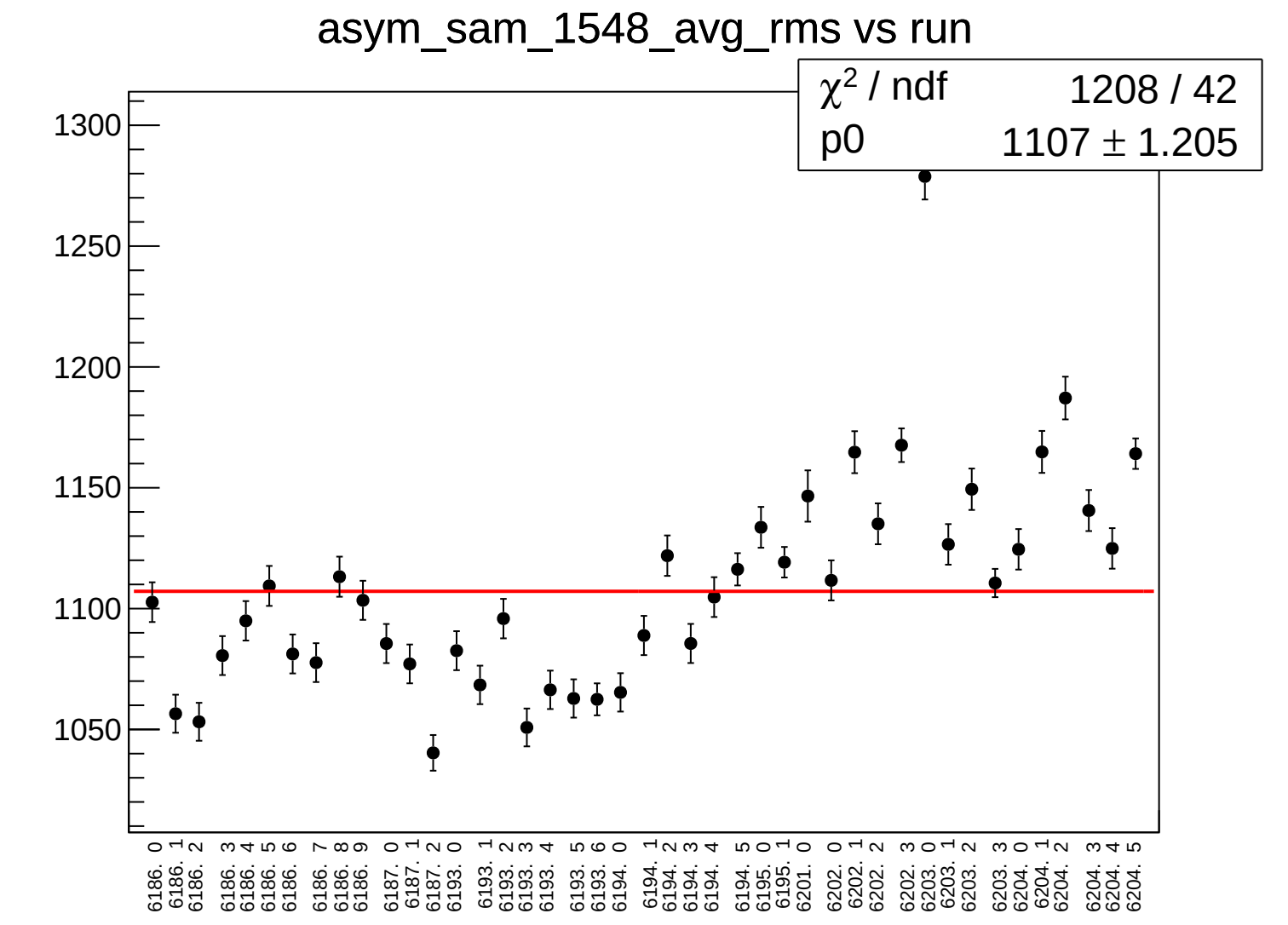
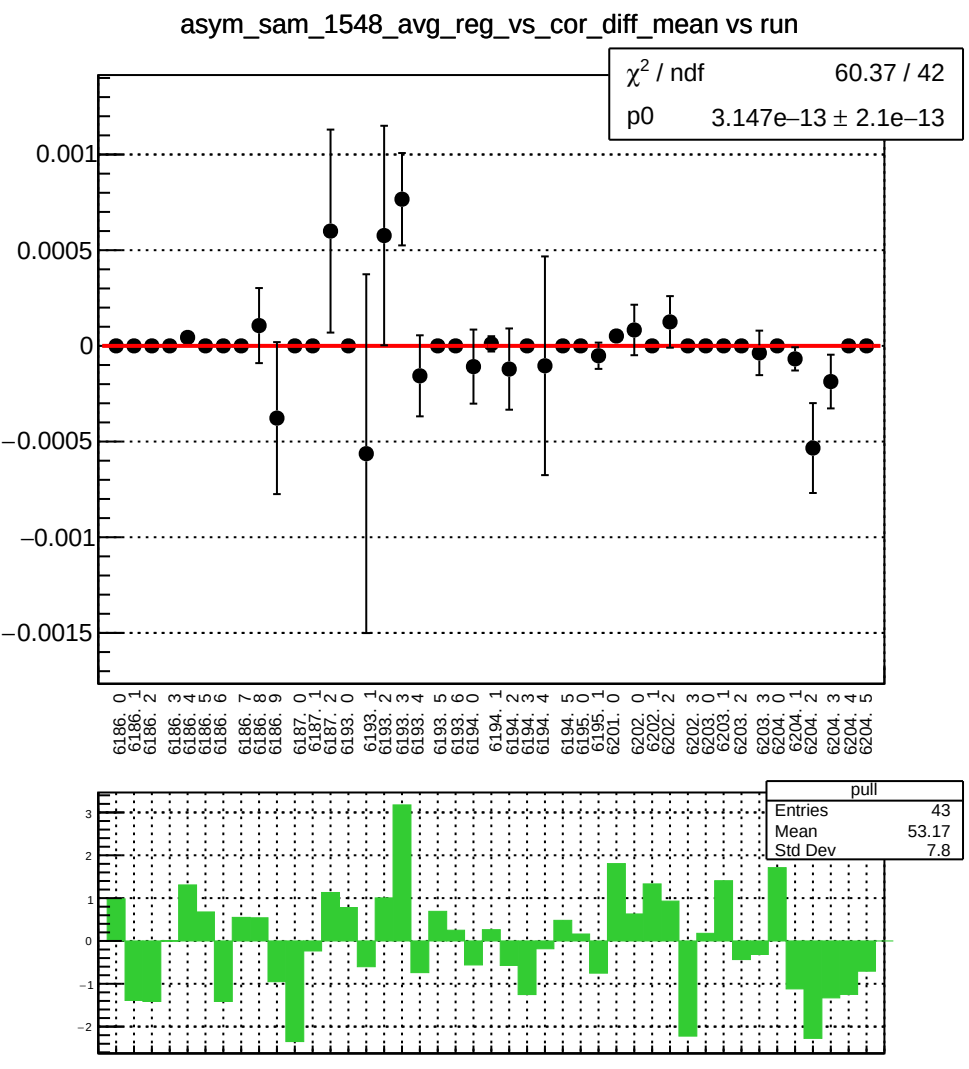
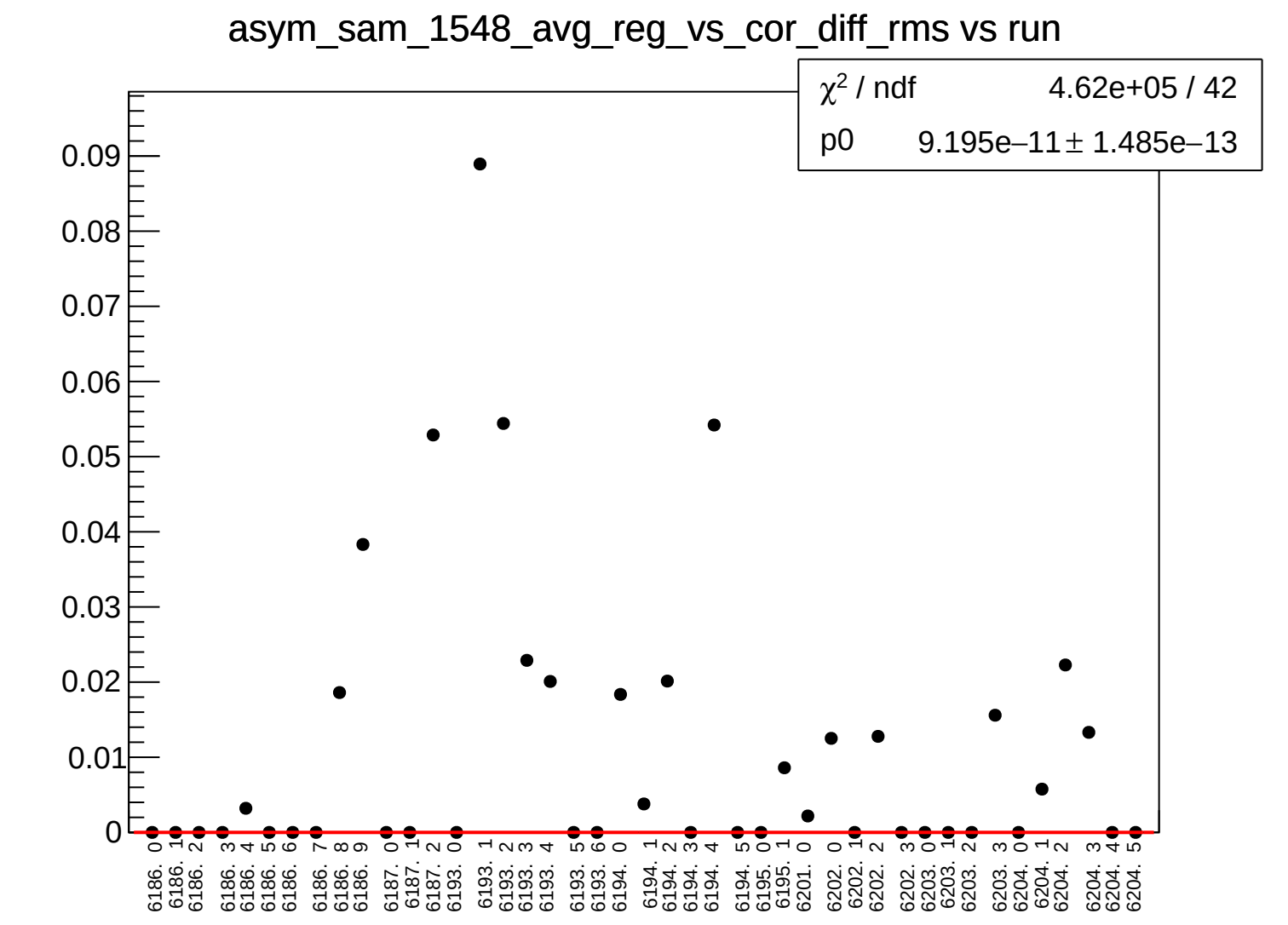
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

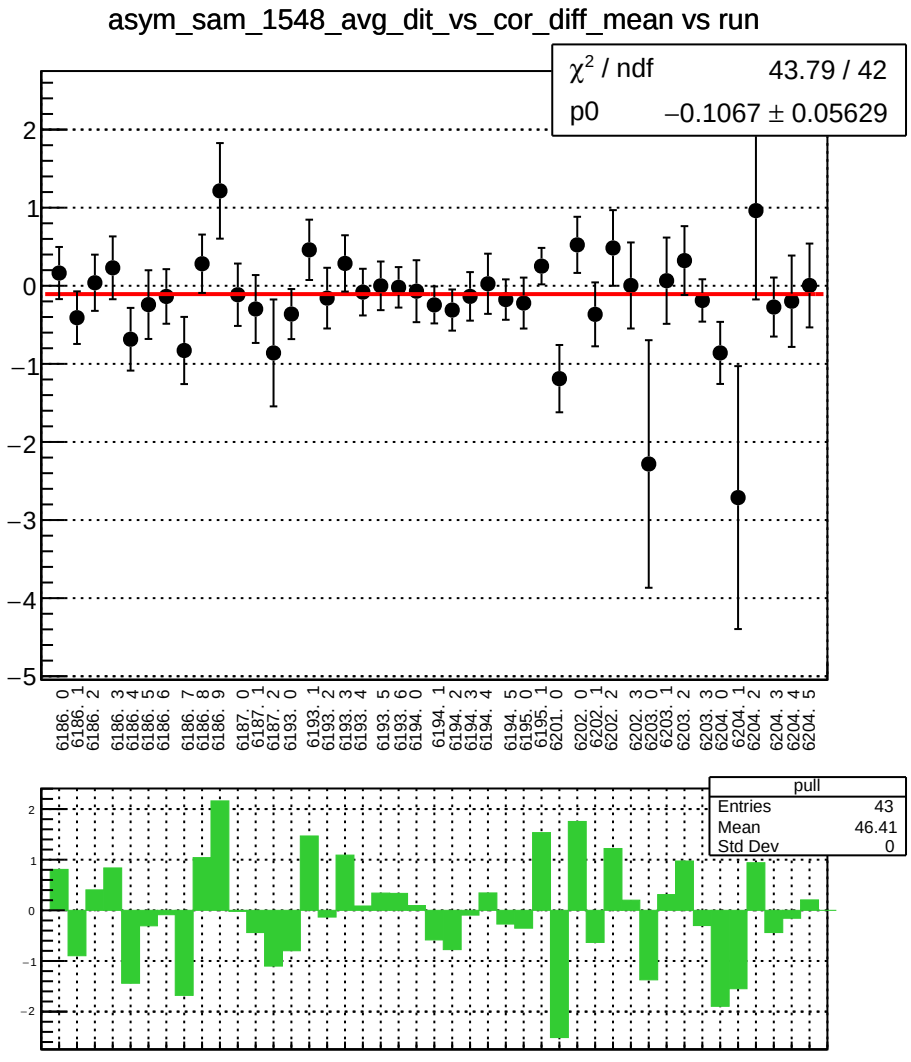

asym_sam_1548_avg_mean vs run
χ² / ndf 60.3 / 42
p0 −804.6 ± 1704
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −110.1
Std Dev 0
2
1
0
−1
−2

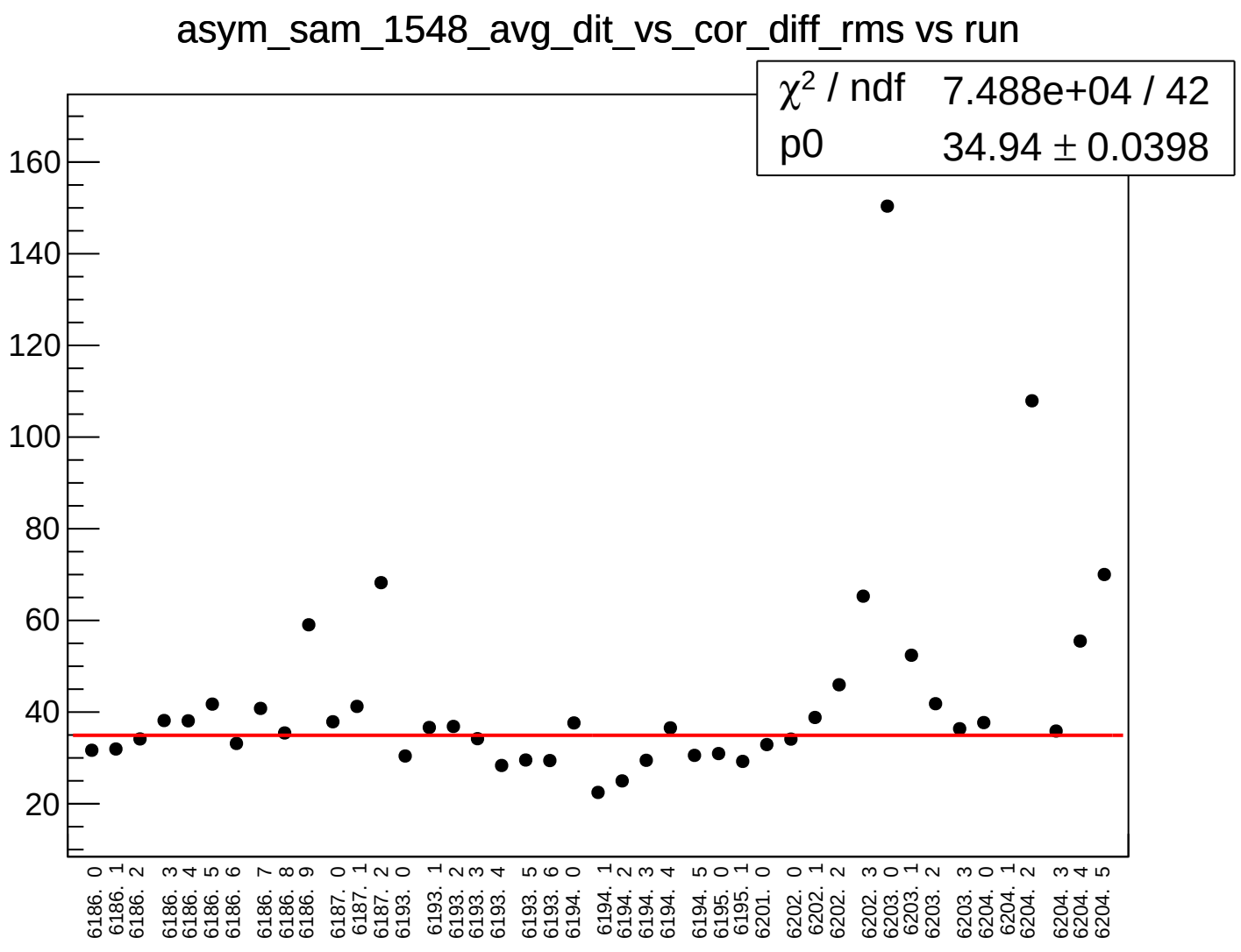

pull1D
Entries 43
Mean −0.01665
Std Dev 1.184
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

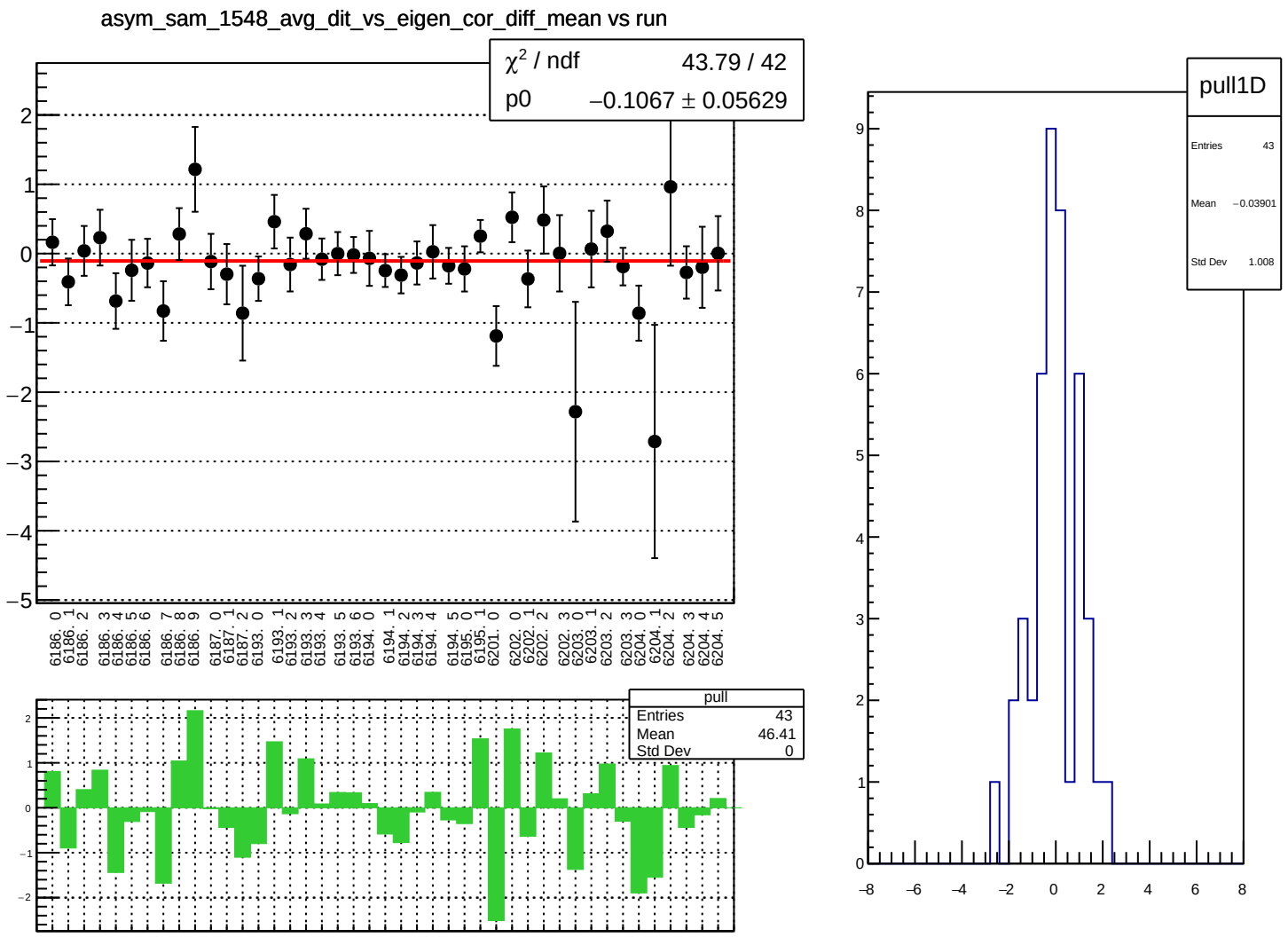

asym_sam_1548_avg_rms vs run
χ² / ndf 1208 / 42
p0 1107 ± 1.205
1300
1250
1200
1150
1100
1050
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

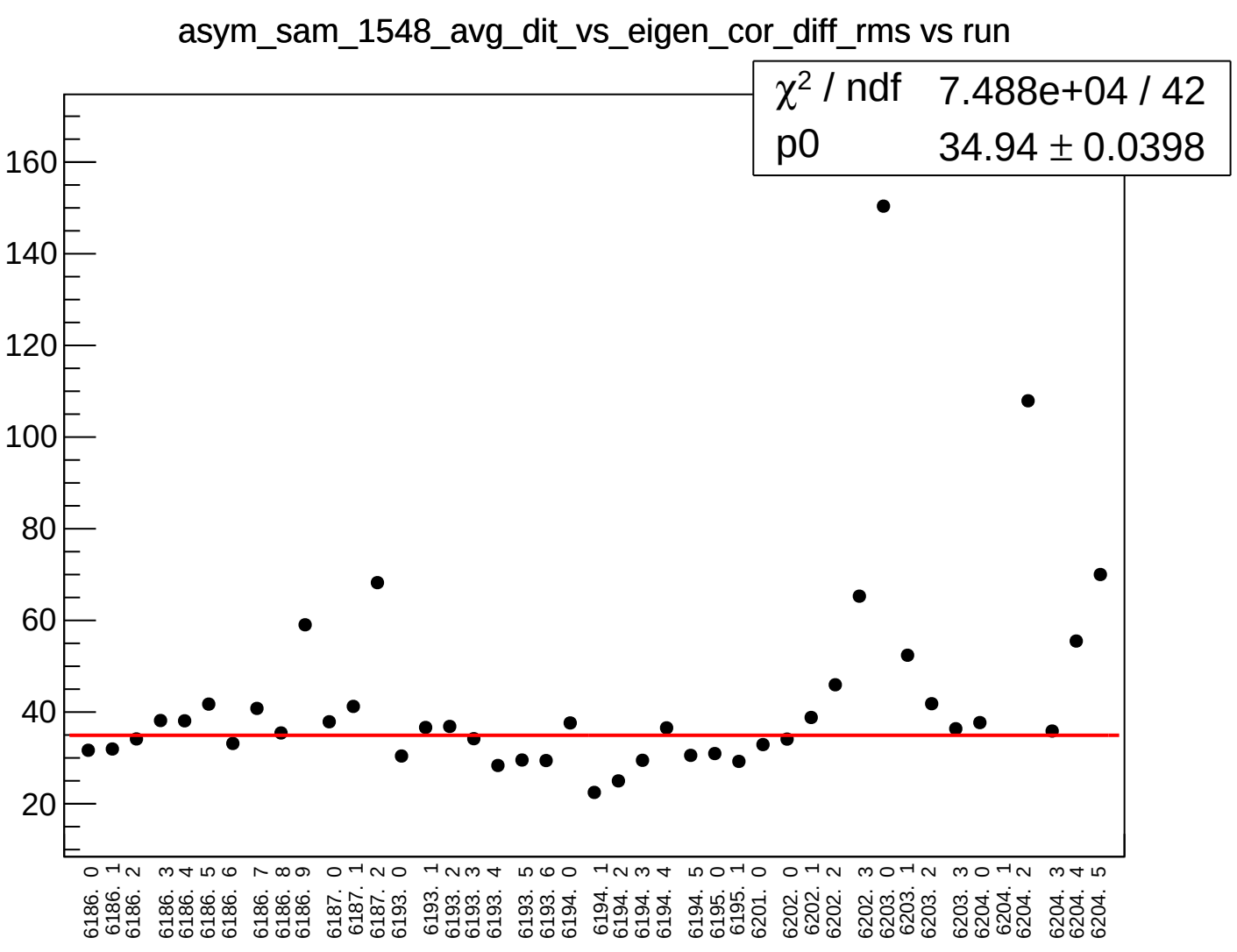

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 60.37 / 42
p0 3.147e−13 ± 2.1e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 53.17
Std Dev 7.8
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04782
Std Dev 1.184
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

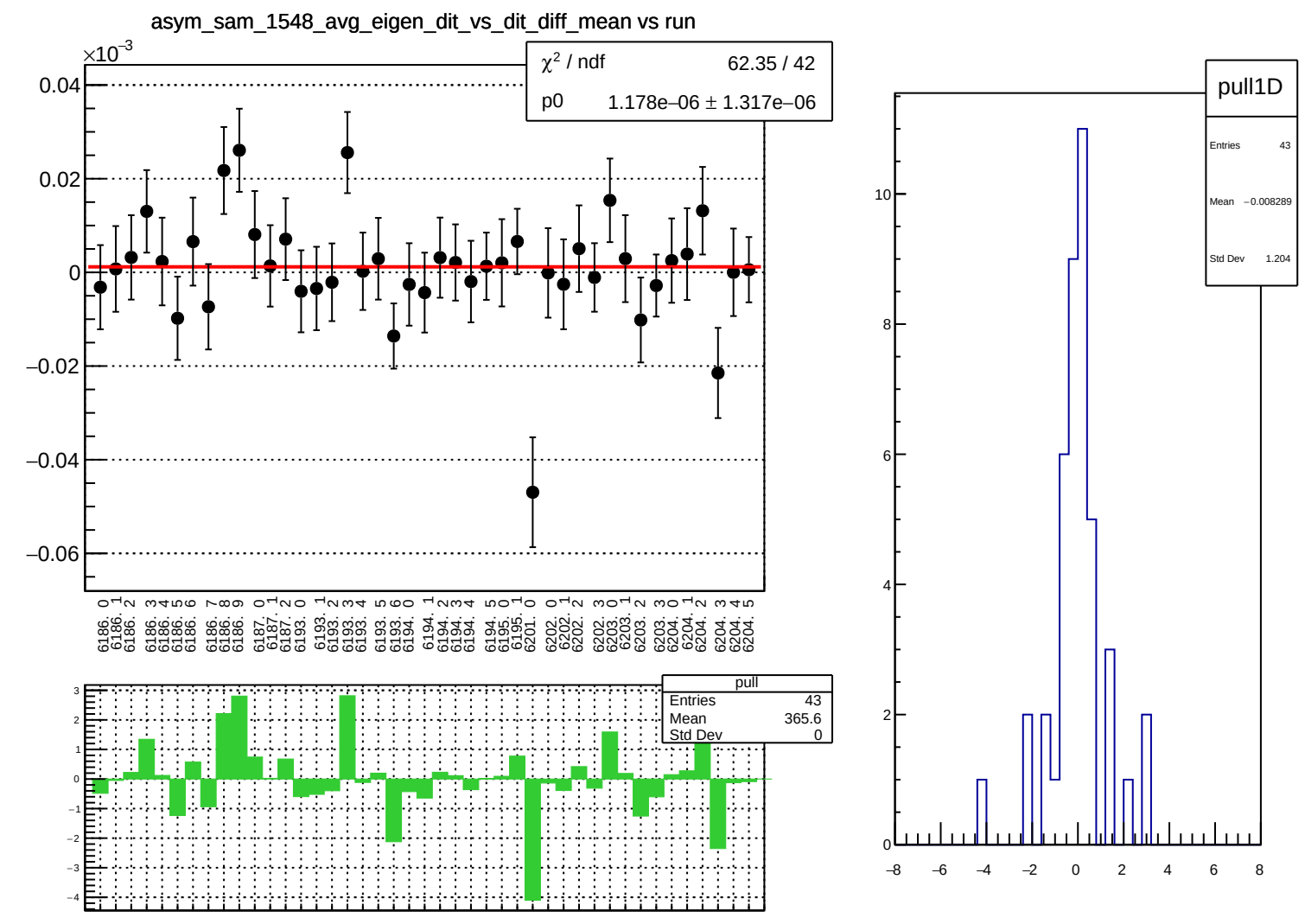

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.62e+05 / 42
p0 9.195e−11 ± 1.485e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

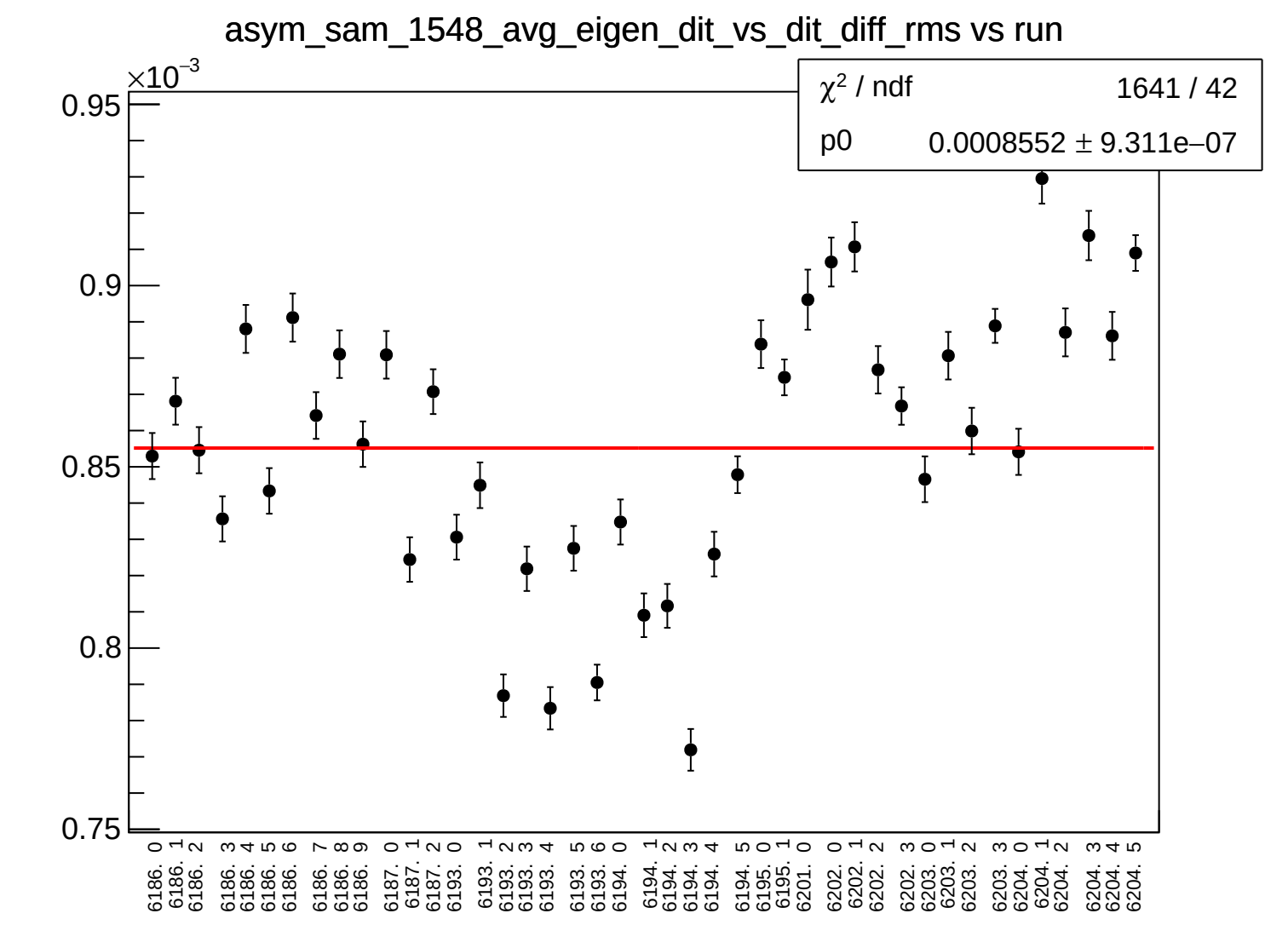

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 43.79 / 42
p0 −0.1067 ± 0.05629
pull
Entries 43
Mean 46.41
Std Dev 0
pull1D
Entries 43
Mean −0.03901
Std Dev 1.008

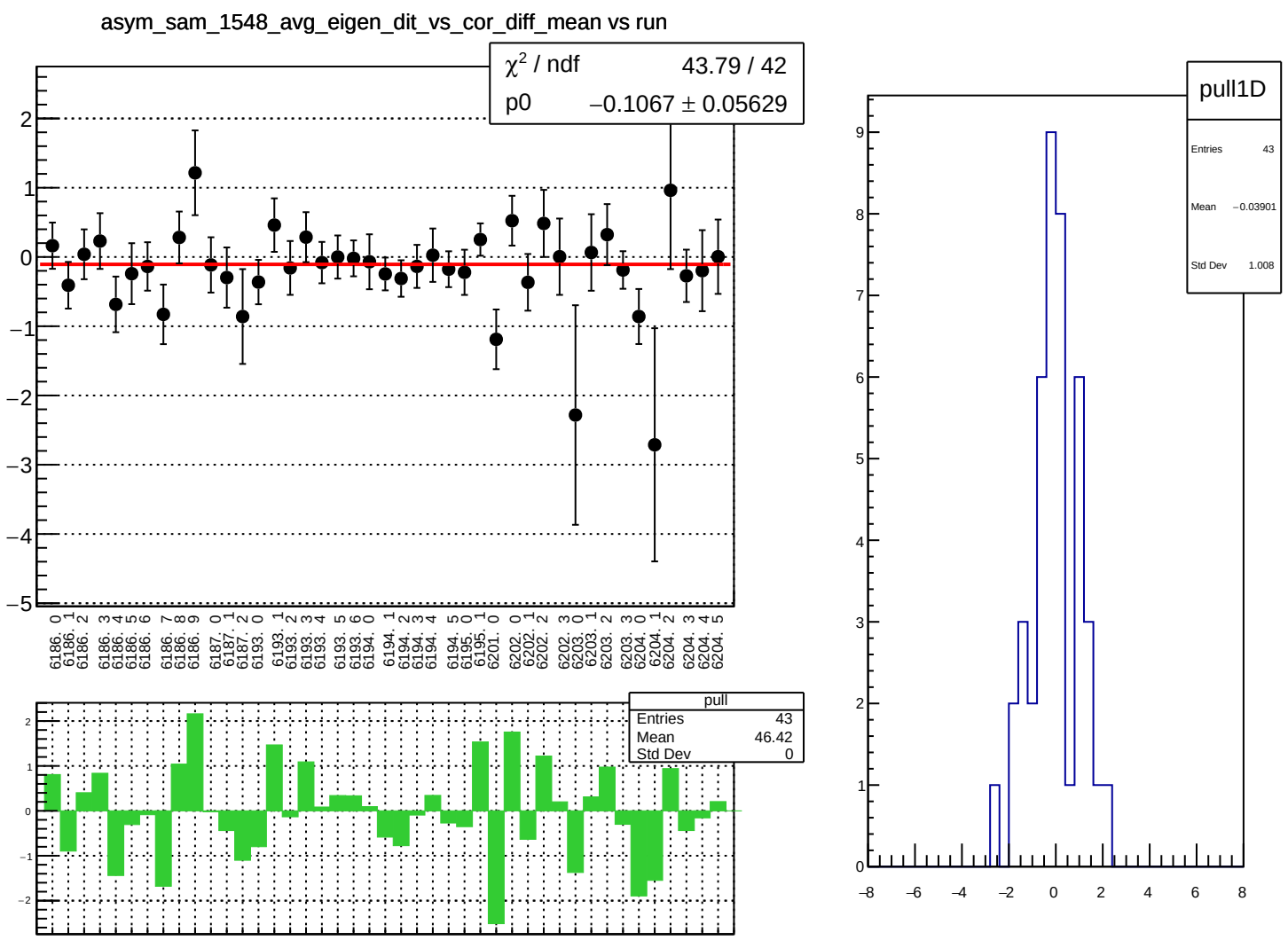

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.488e+04 / 42
p0 34.94 ± 0.0398
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

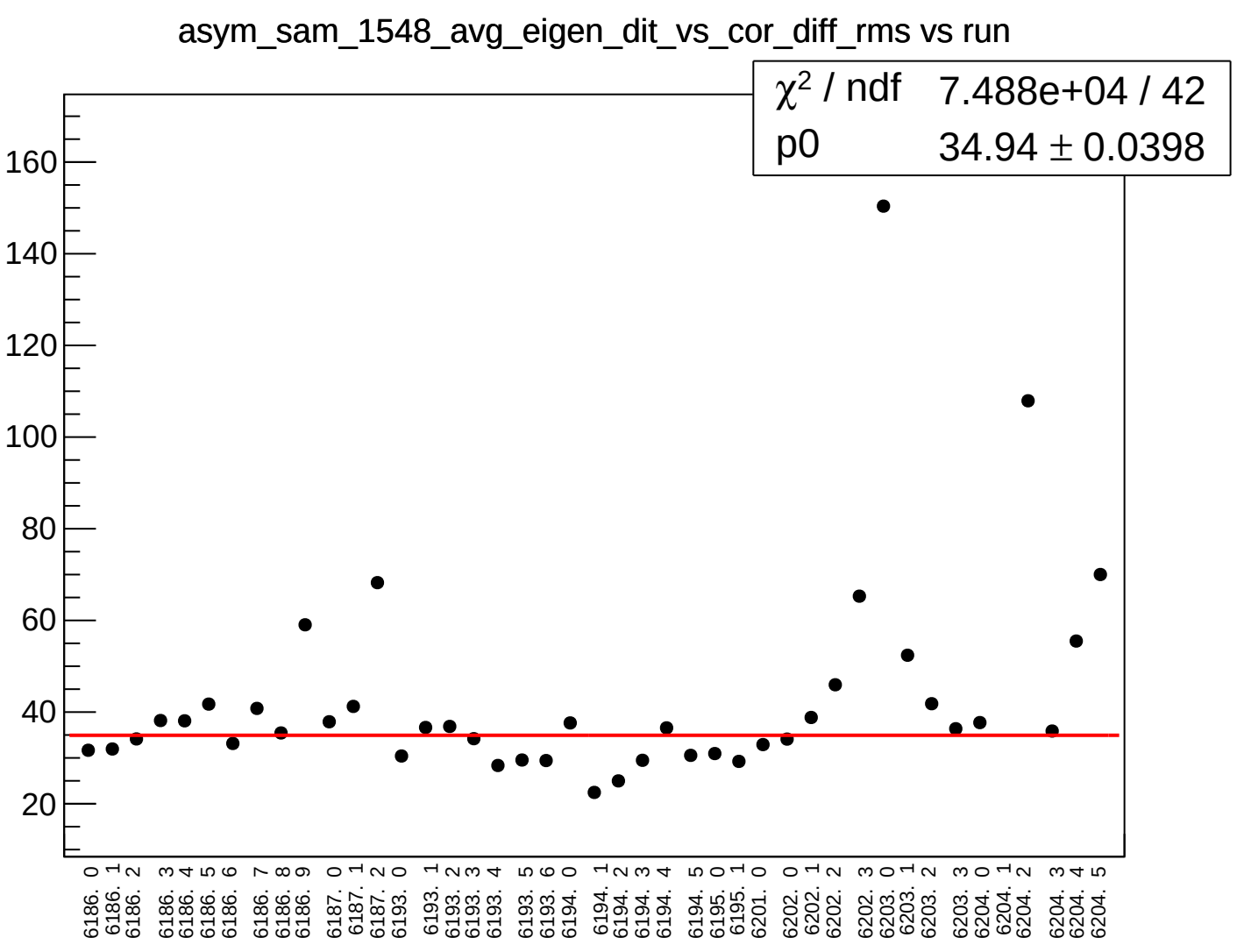

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.79 / 42
p0 −0.1067 ± 0.05629
pull
Entries 43
Mean 46.41
Std Dev 0
pull1D
Entries 43
Mean −0.03901
Std Dev 1.008

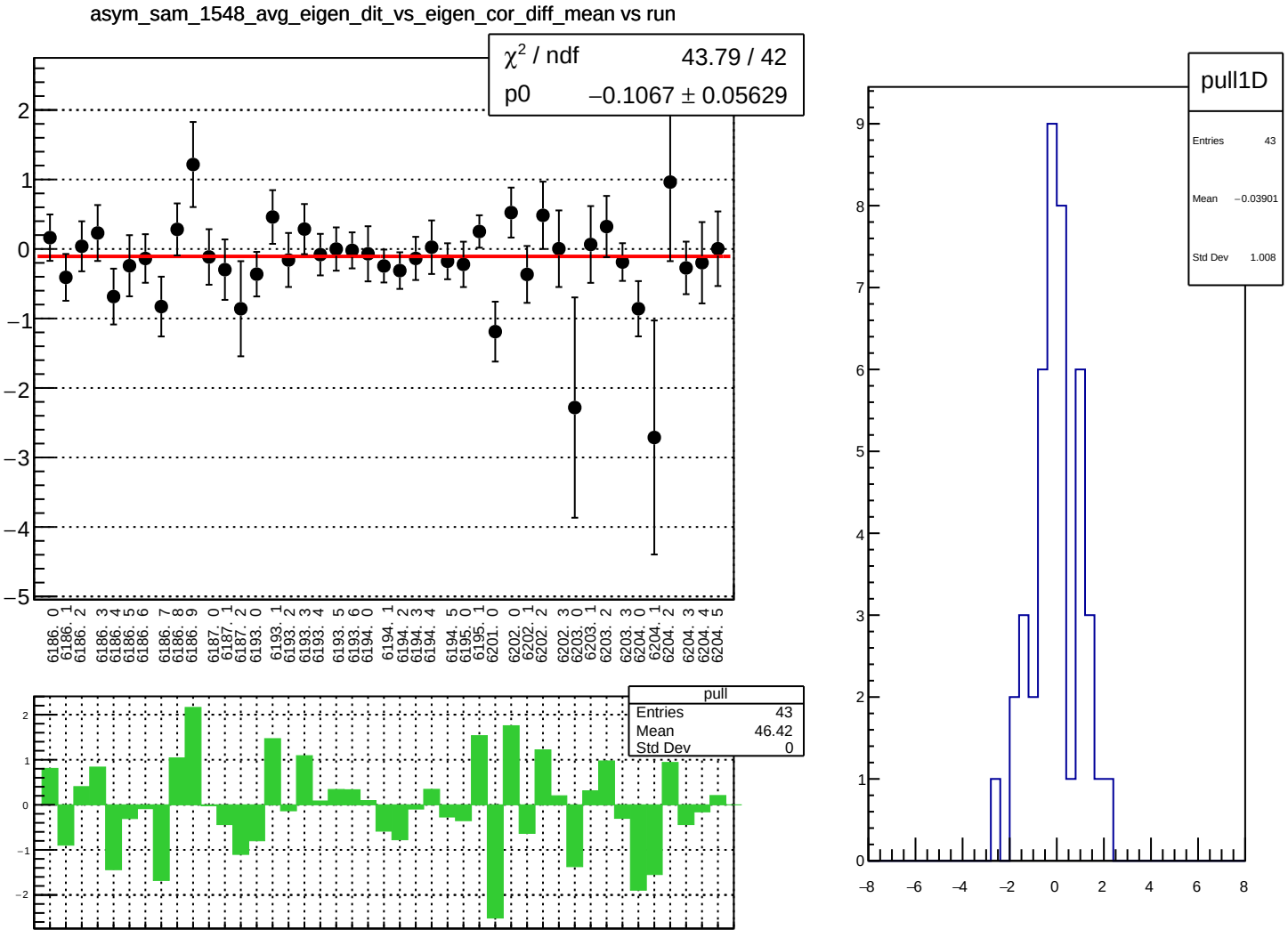

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.488e+04 / 42
p0 34.94 ± 0.0398
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

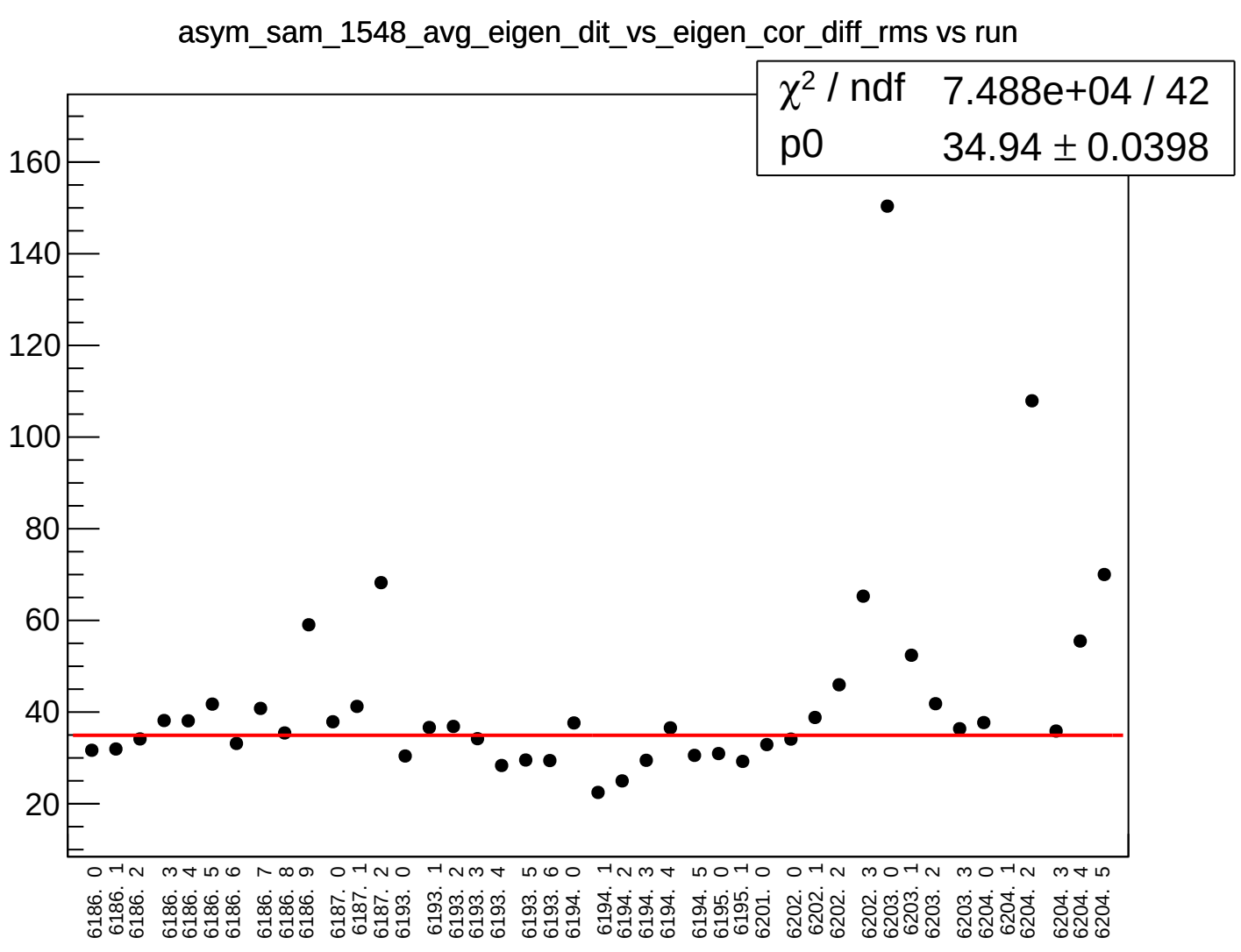

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 62.35 / 42
p0 1.178e−06 ± 1.317e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 365.6
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean −0.008289
Std Dev 1.204
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

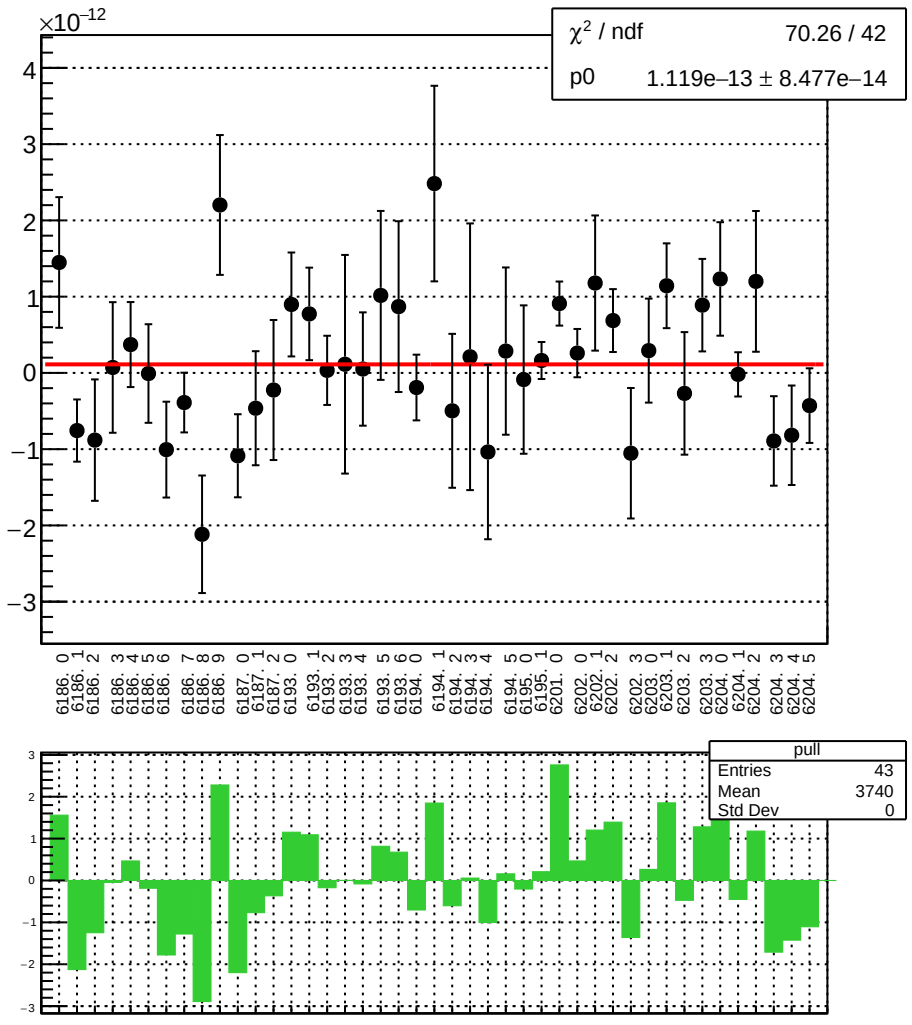

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1641 / 42
p0 0.0008552 ± 9.311e−07
0.95
0.9
0.85
0.8
0.75
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

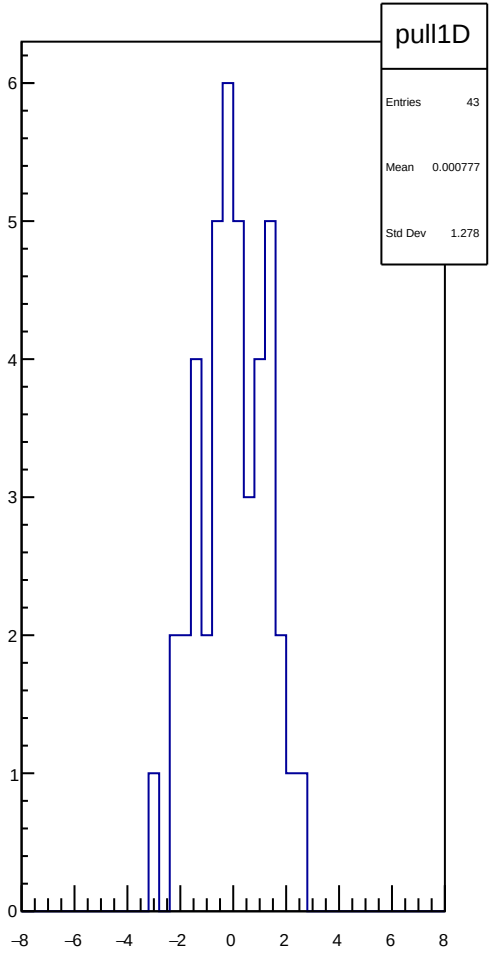

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 43.79 / 42
p0 −0.1067 ± 0.05629
pull
Entries 43
Mean 46.42
Std Dev 0
pull1D
Entries 43
Mean −0.03901
Std Dev 1.008

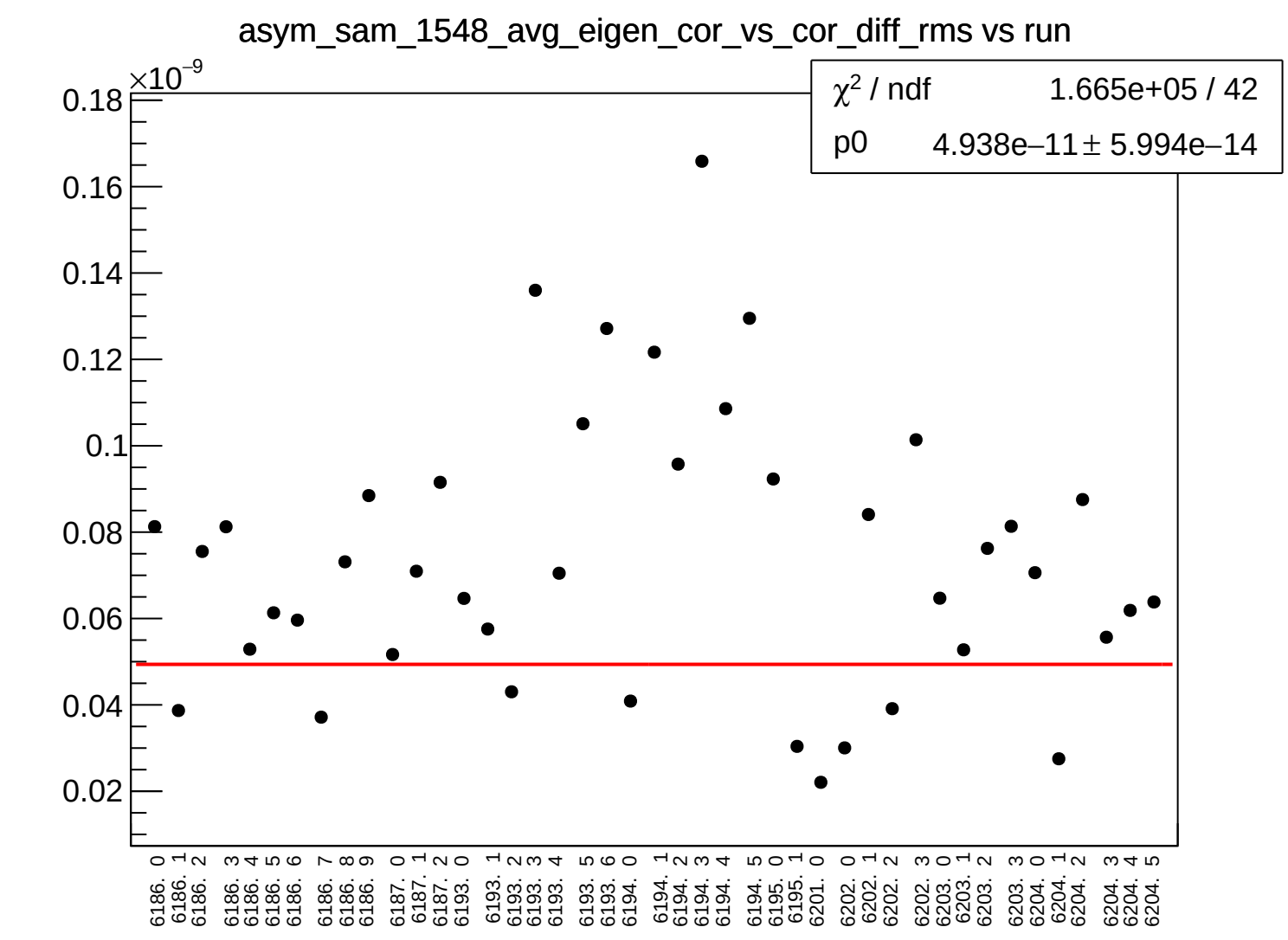

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.488e+04 / 42
p0 34.94 ± 0.0398
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

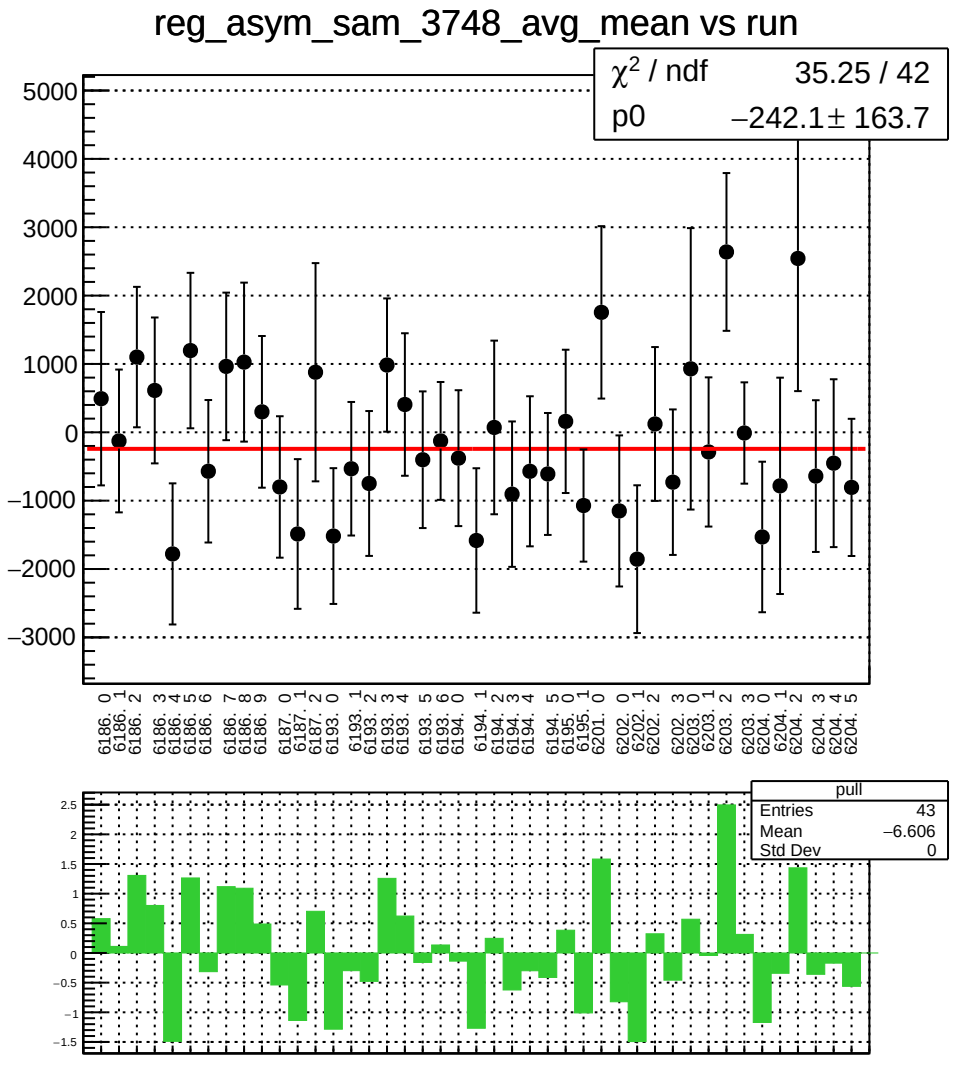

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 43.79 / 42
p0 −0.1067 ± 0.05629
pull
Entries 43
Mean 46.42
Std Dev 0
pull1D
Entries 43
Mean −0.03901
Std Dev 1.008

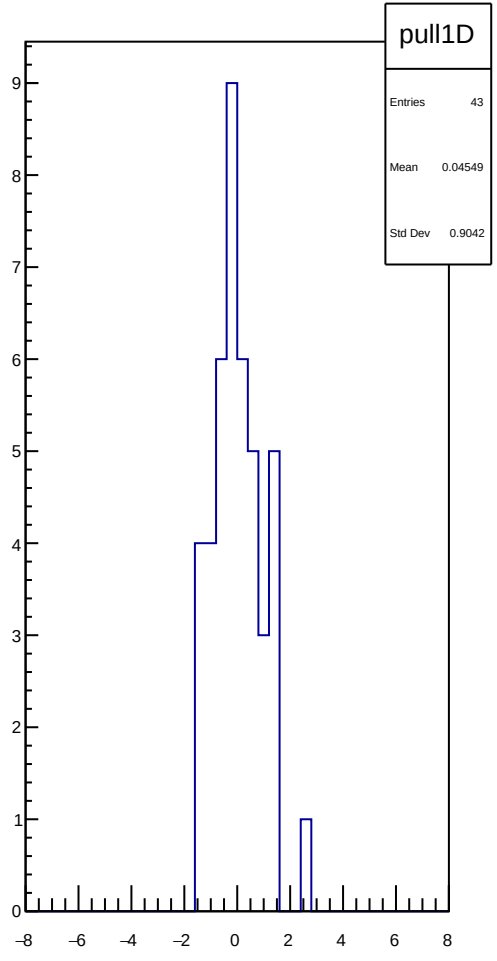

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.488e+04 / 42
p0 34.94 ± 0.0398
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

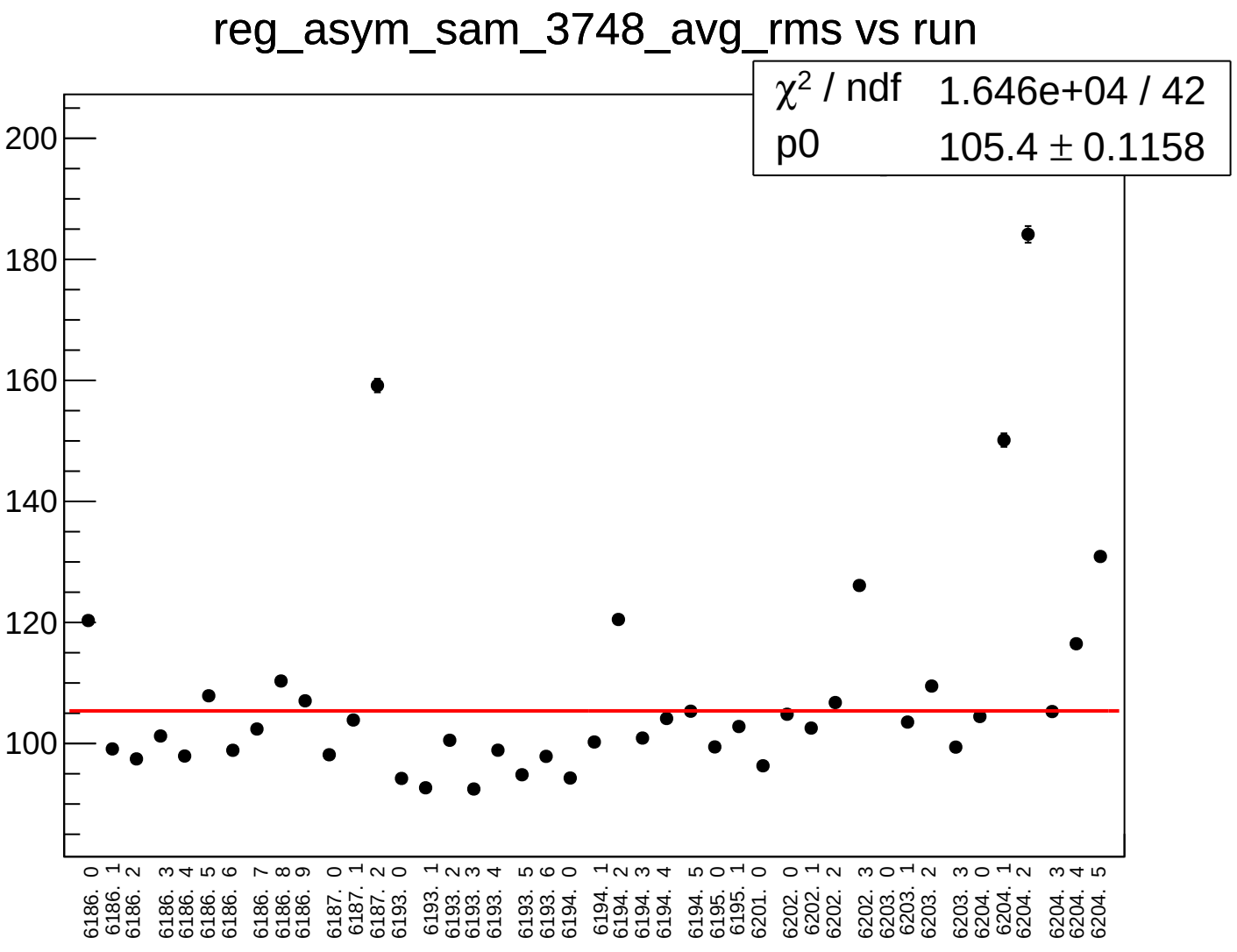

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.26 / 42
p0 1.119e−13 ± 8.477e−14
4
3
2
1
0
−1
−2
−3
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 3740
Std Dev 0
3
2
1
0
−1
−2
−3

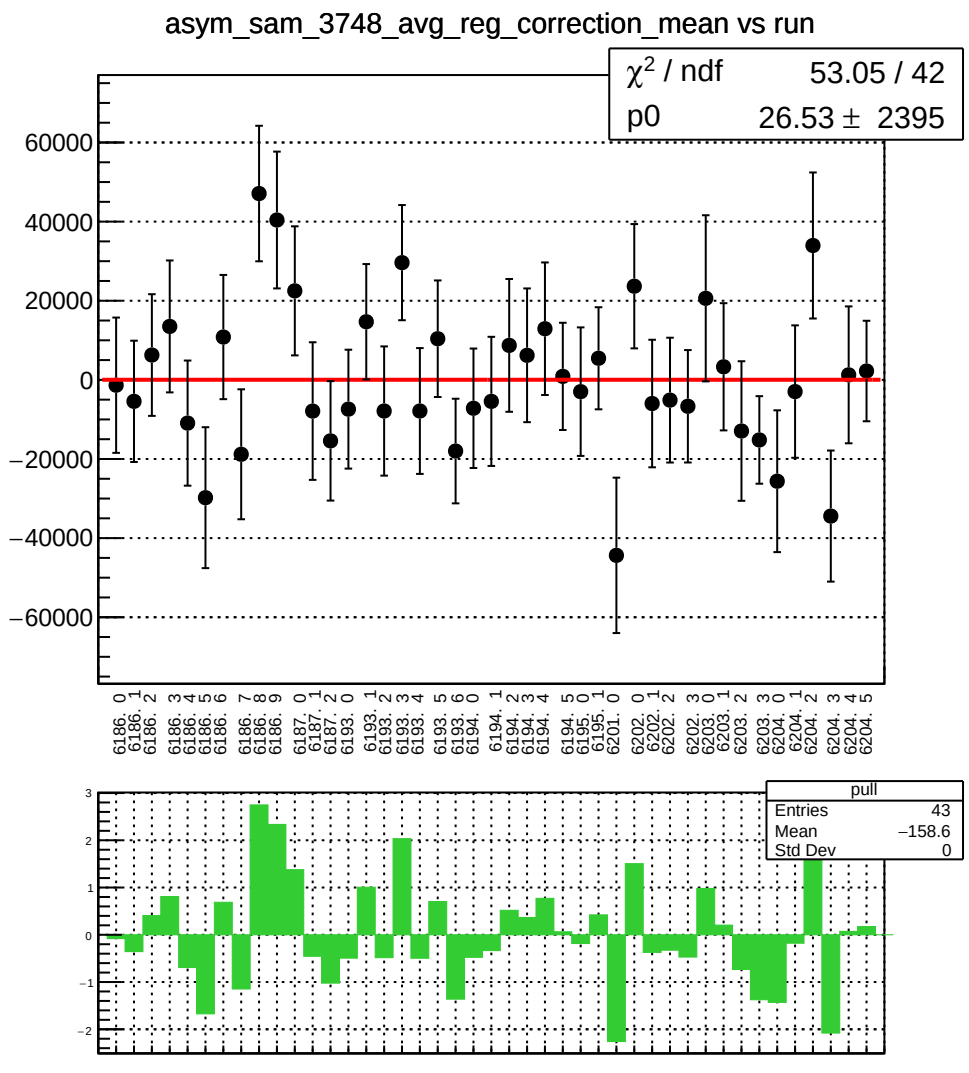

pull1D
Entries 43
Mean 0.000777
Std Dev 1.278
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

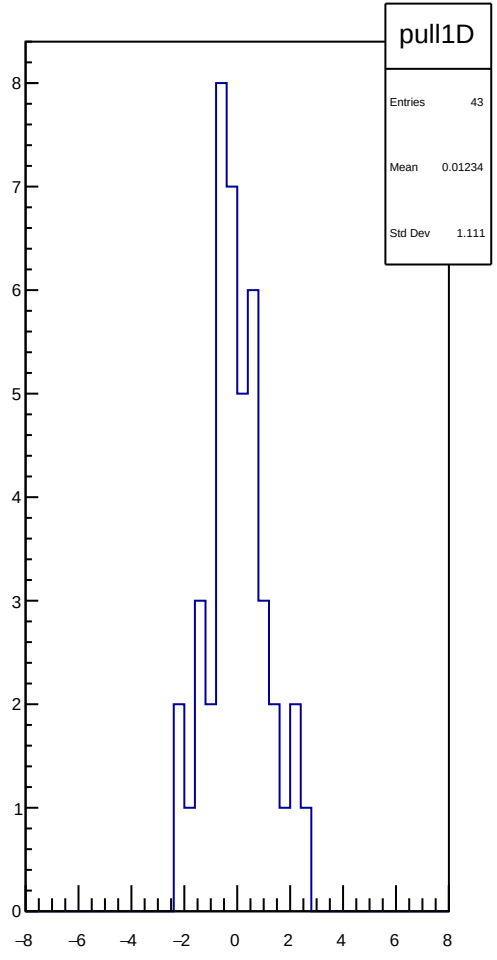

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.665e+05 / 42
p0 4.938e−11 ± 5.994e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

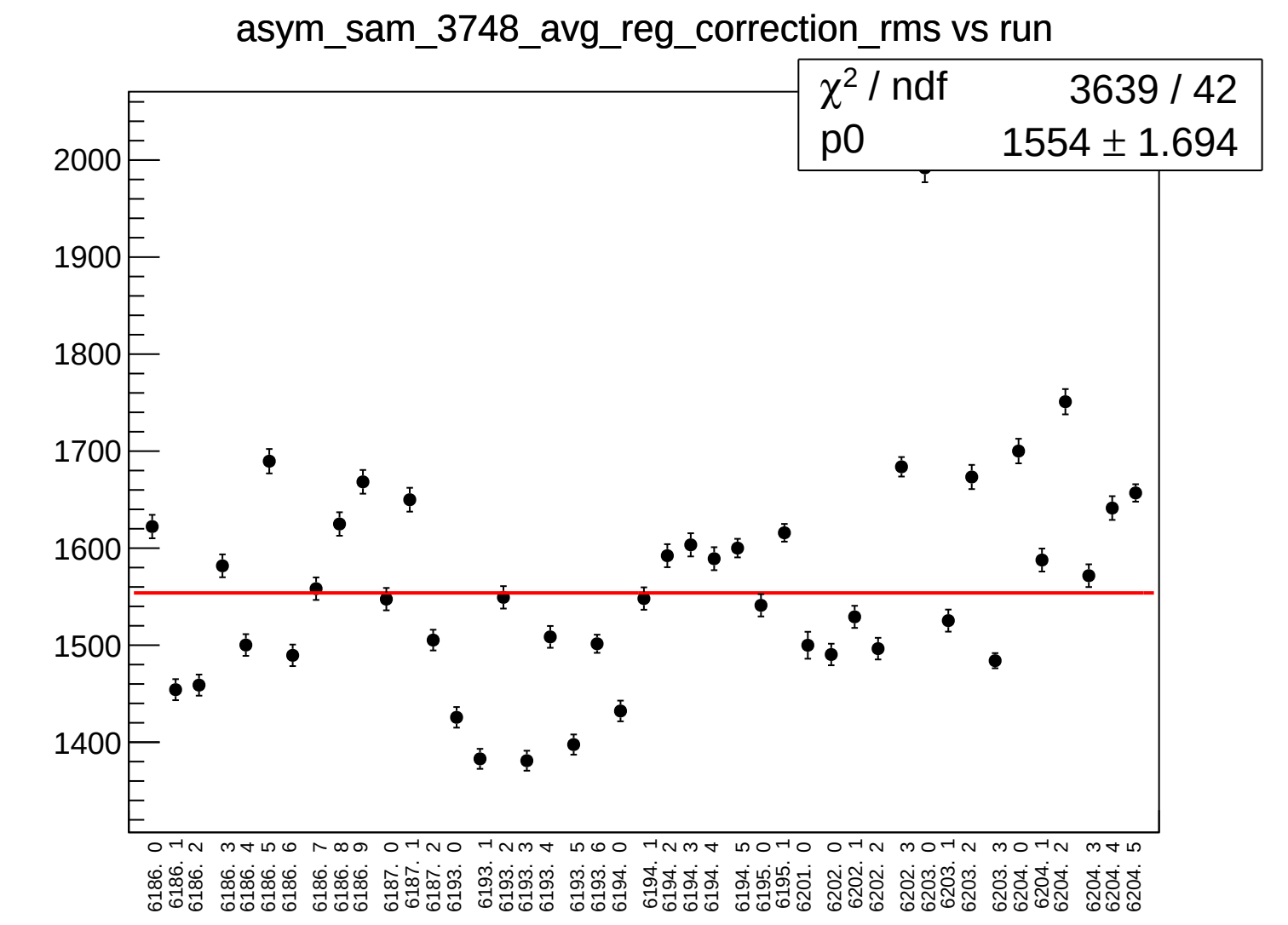

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 35.25 / 42
p0 −242.1± 163.7
pull
Entries 43
Mean −6.606
Std Dev 0

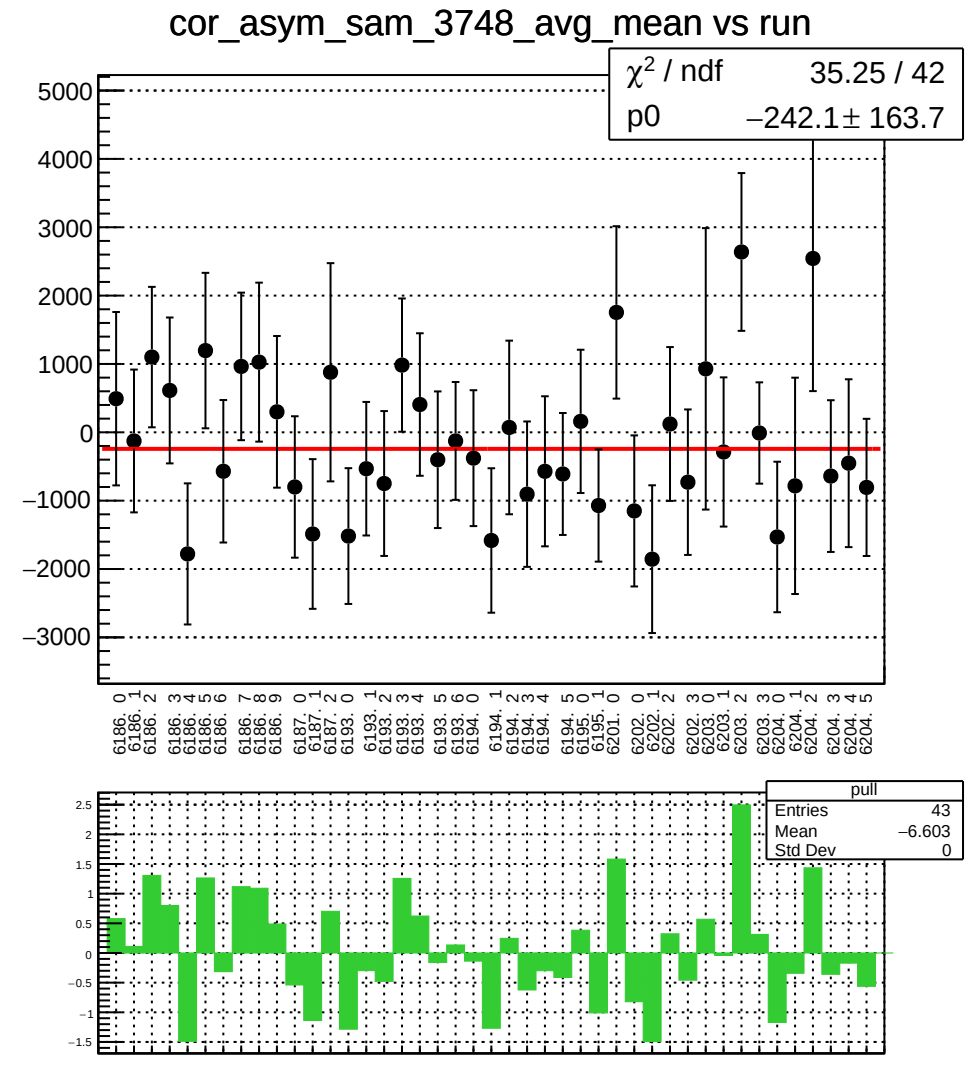

pull1D
Entries 43
Mean 0.04549
Std Dev 0.9042

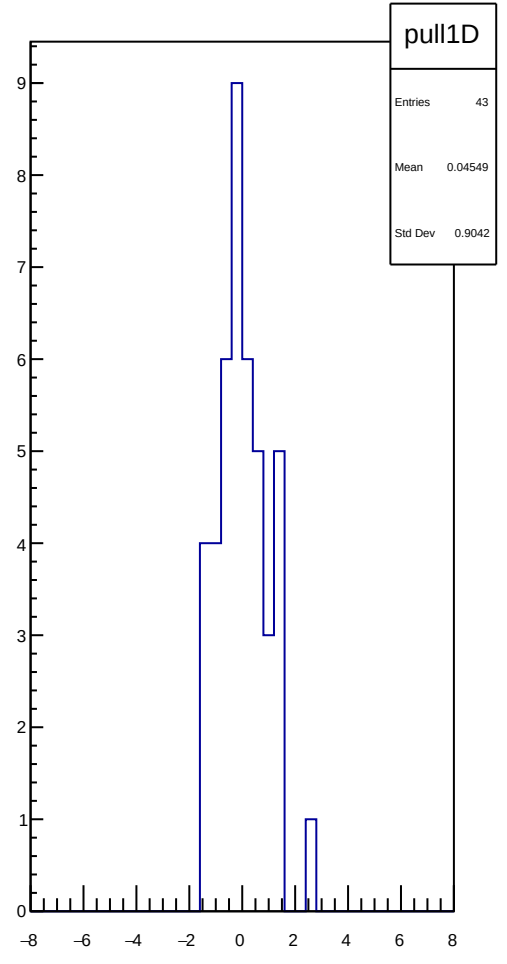

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1.646e+04 / 42
p0 105.4 ± 0.1158
200
180
160
140
120
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

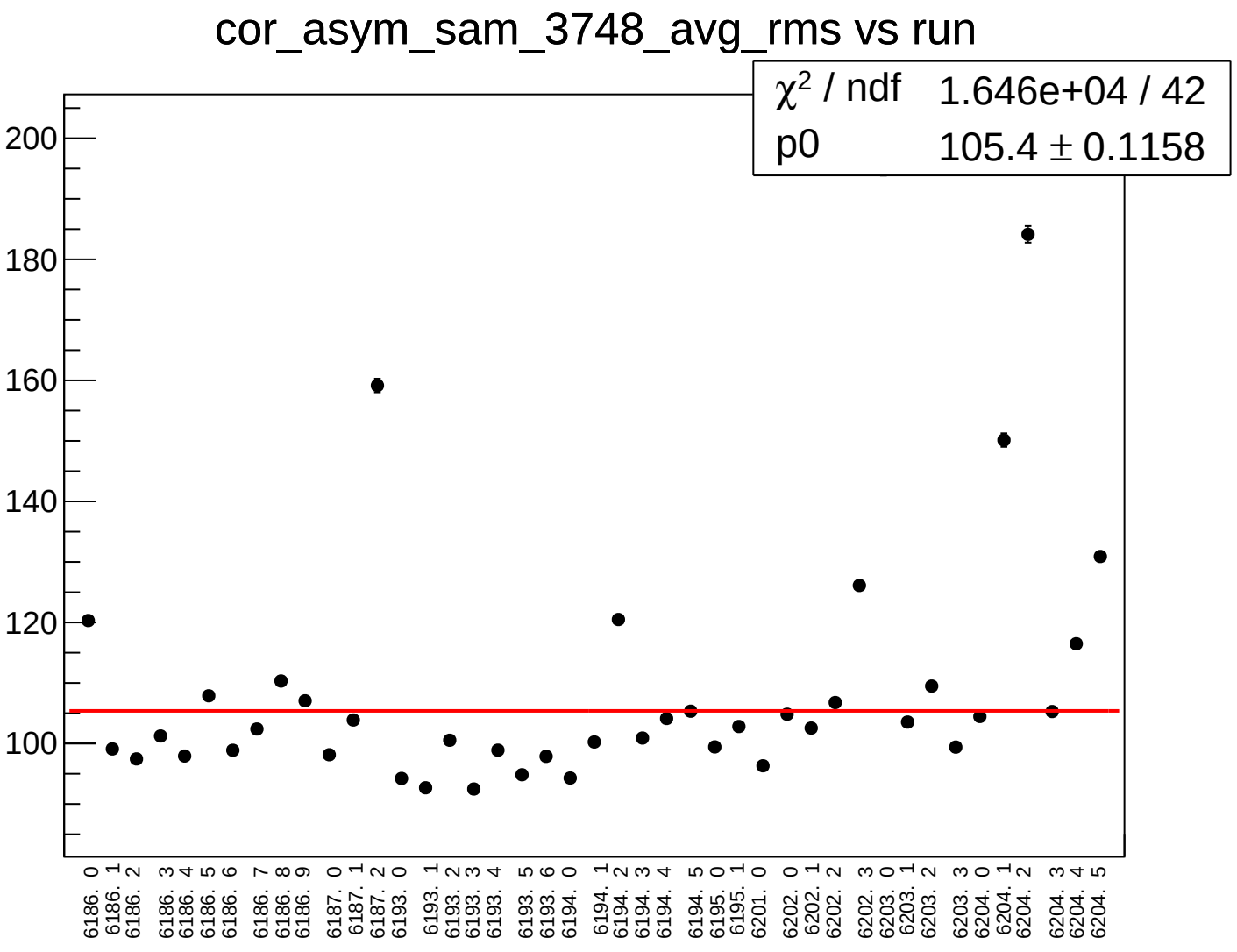

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 53.05 / 42
p0 26.53 ± 2395
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −158.6
Std Dev 0
3
2
1
0
−1
−2

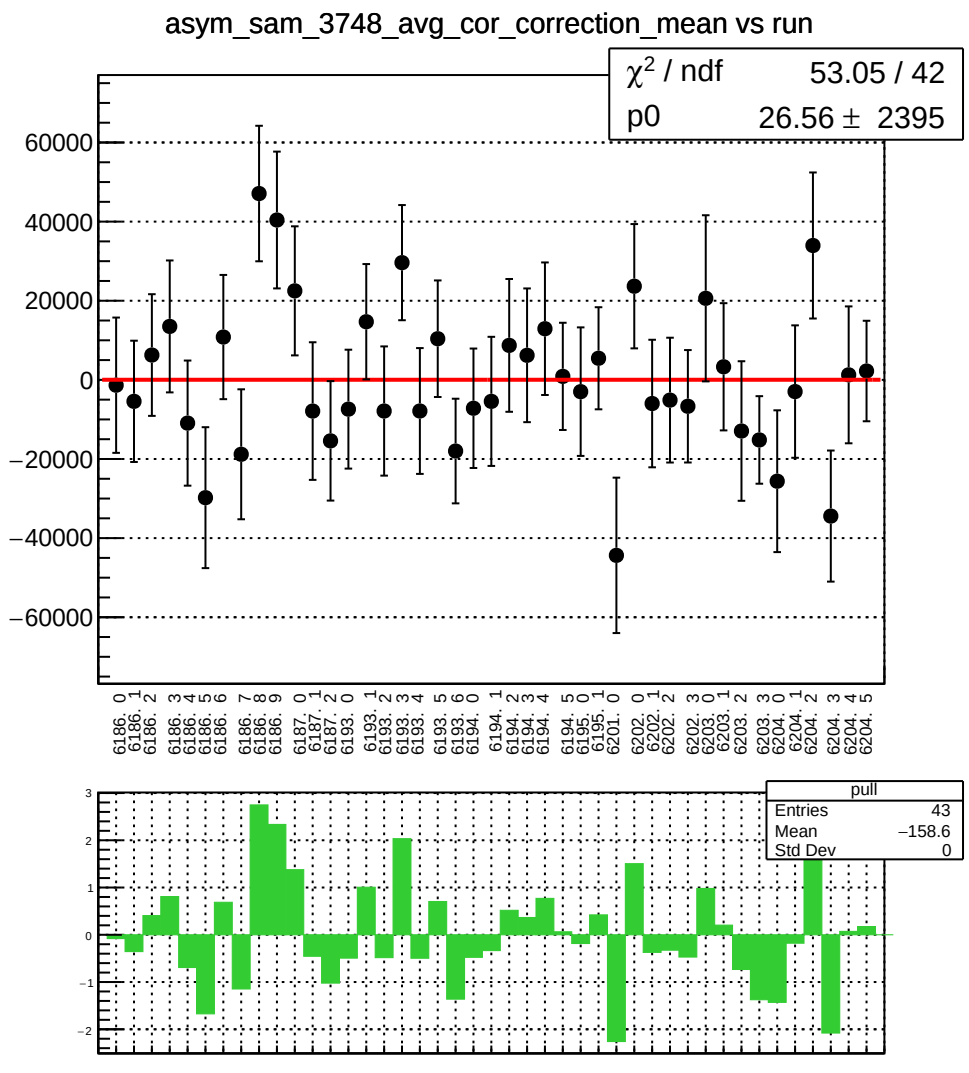

pull1D
Entries 43
Mean 0.01234
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

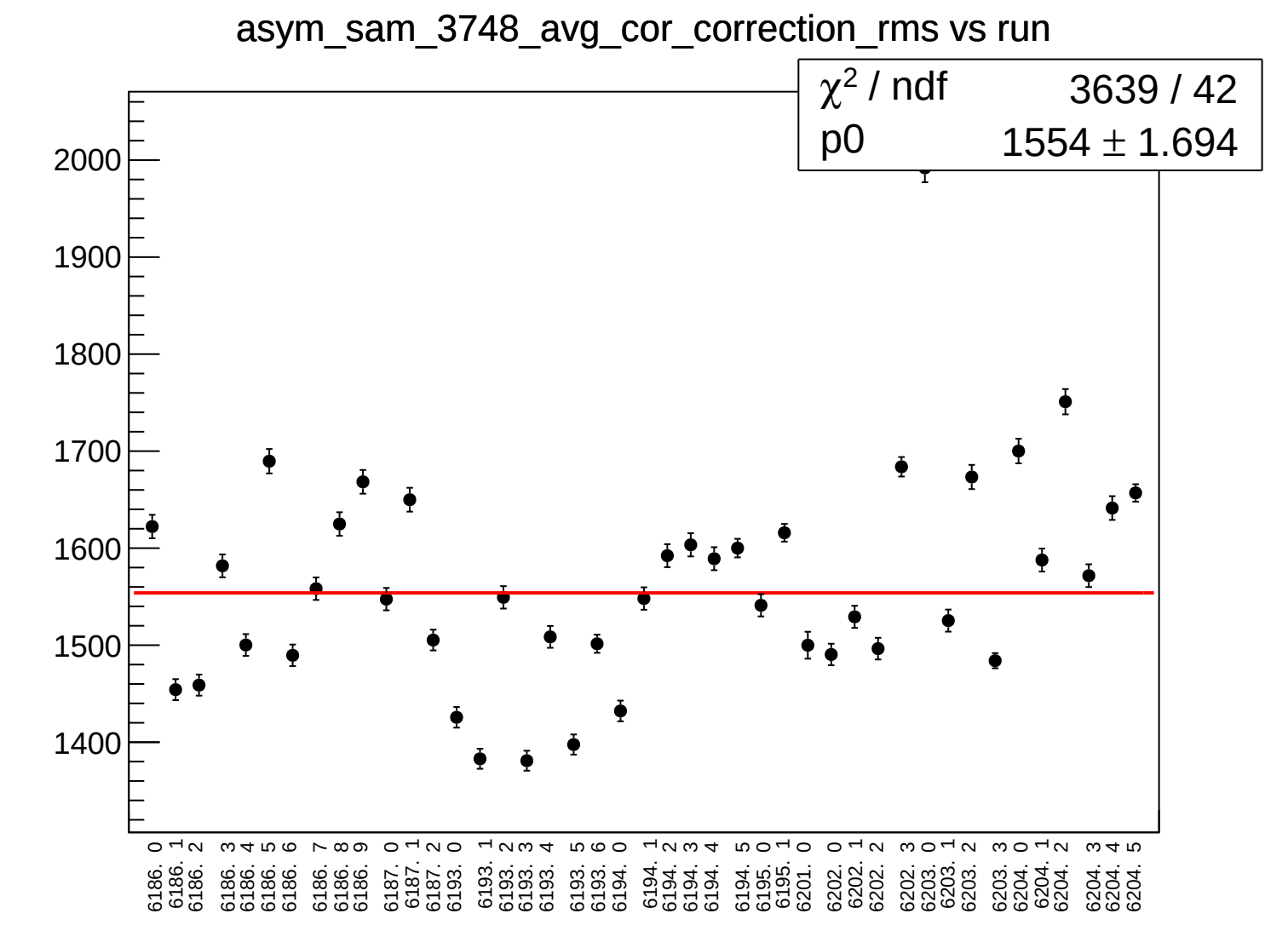

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 3639 / 42
p0 1554 ± 1.694
2000
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

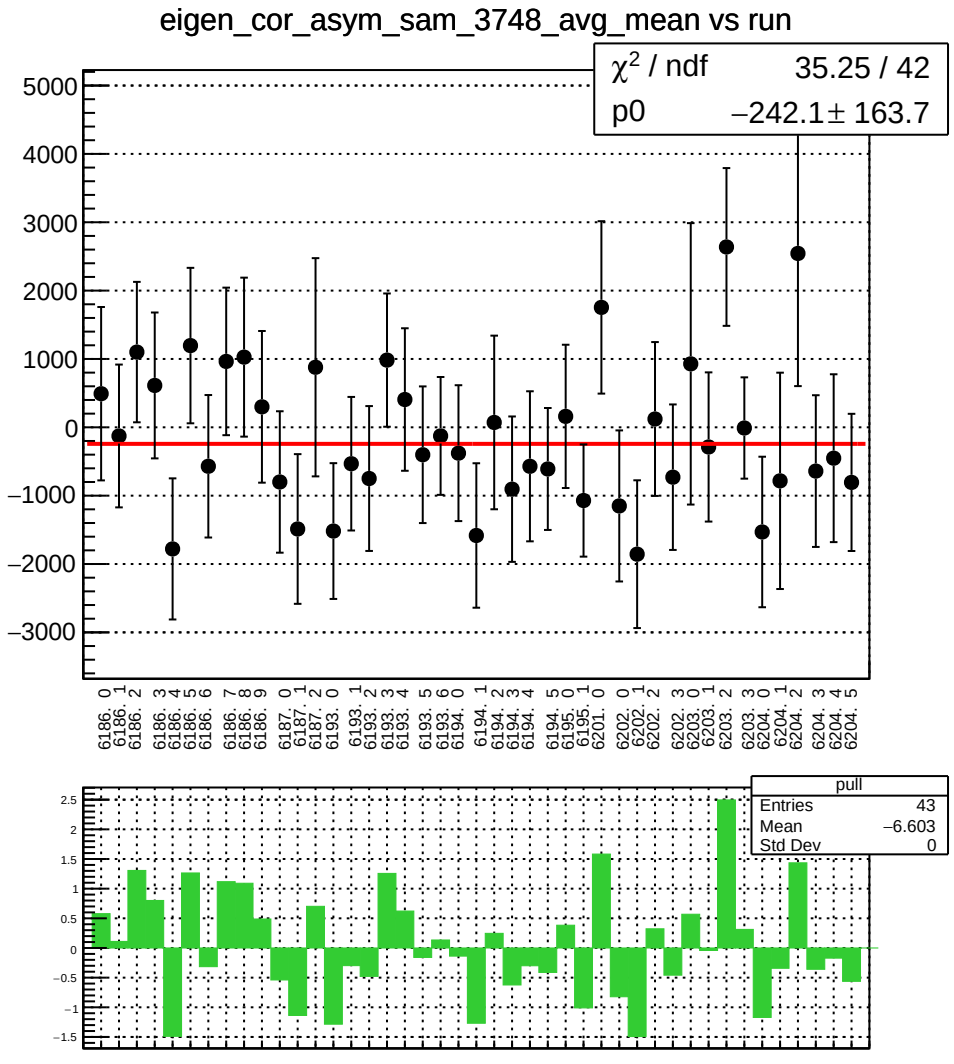

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 35.25 / 42
p0 −242.1± 163.7
pull
Entries 43
Mean −6.603
Std Dev 0

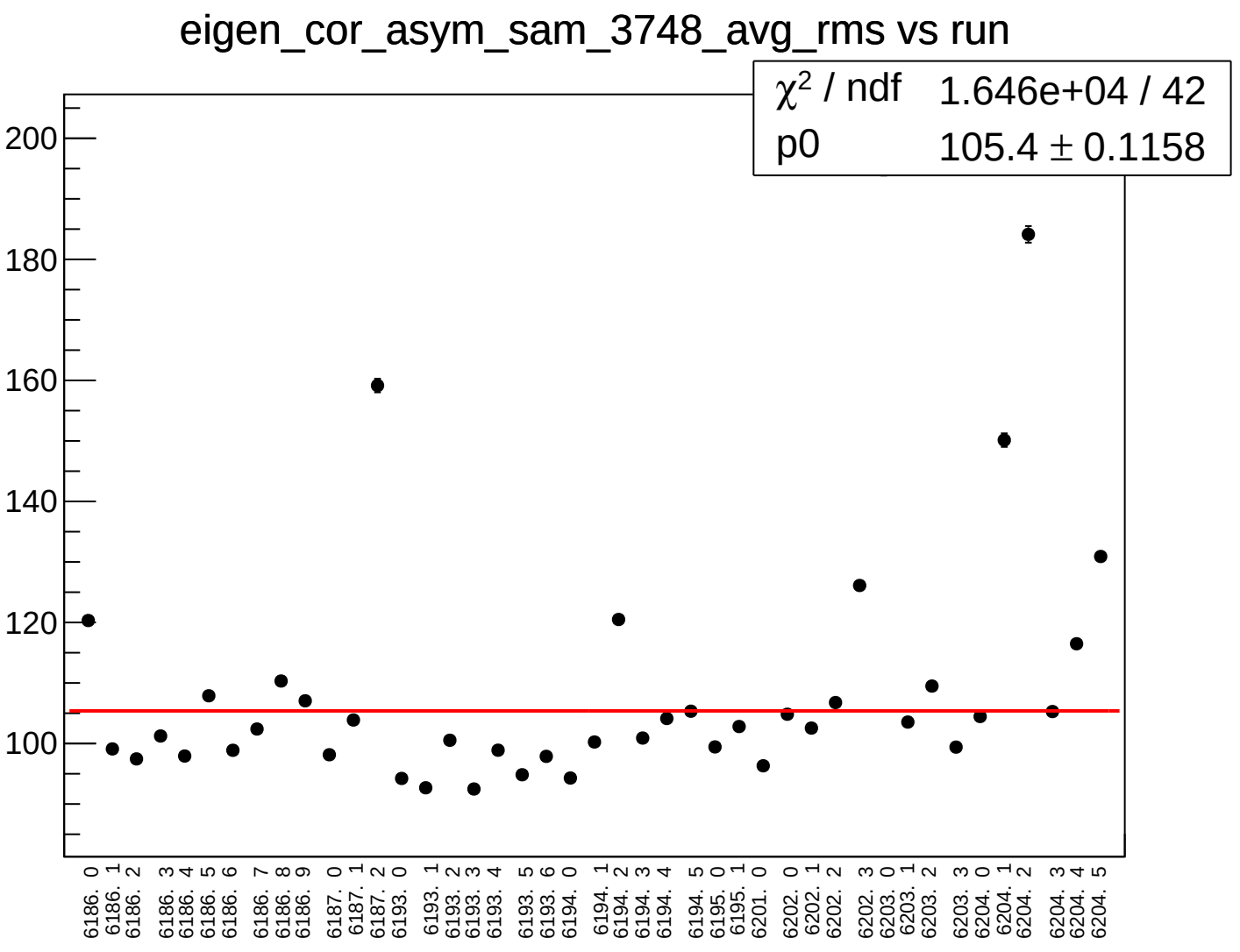

pull1D
Entries 43
Mean 0.04549
Std Dev 0.9042

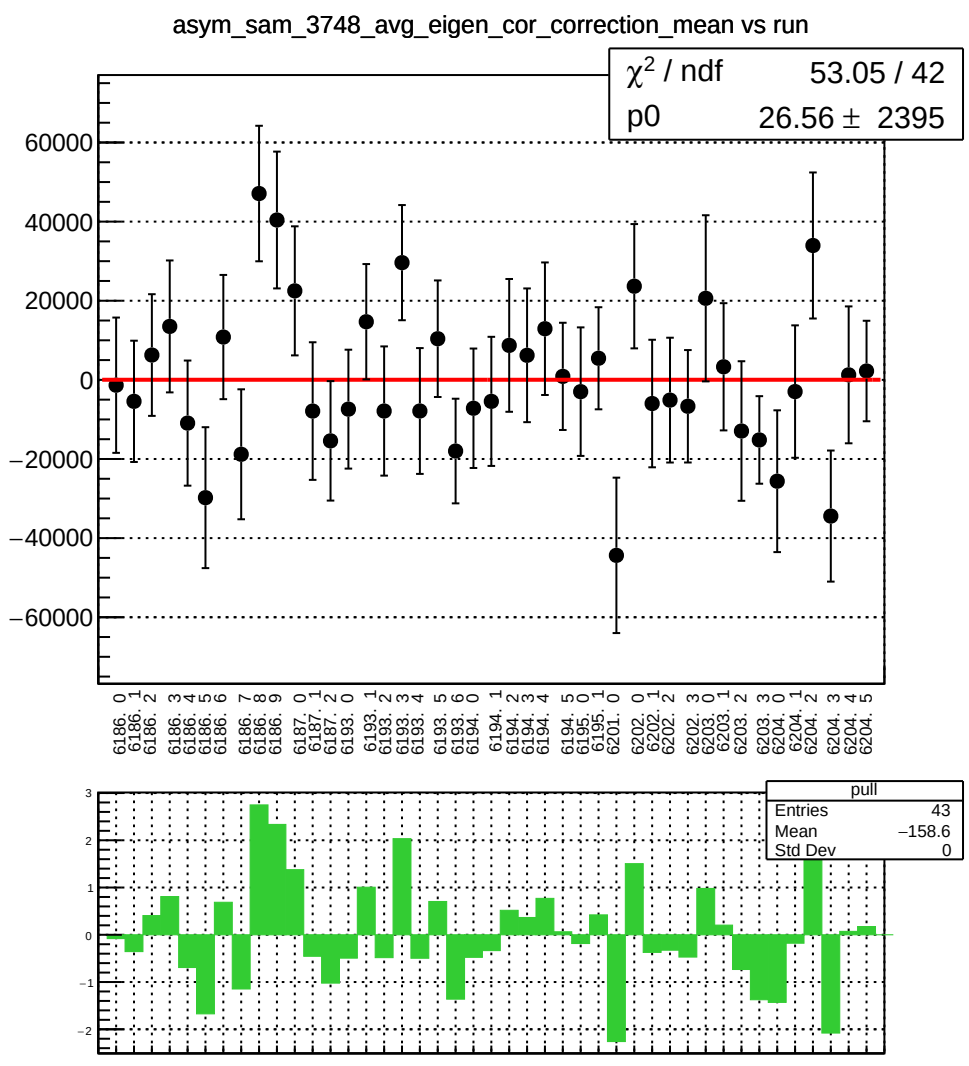

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.646e+04 / 42
p0 105.4 ± 0.1158
200
180
160
140
120
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

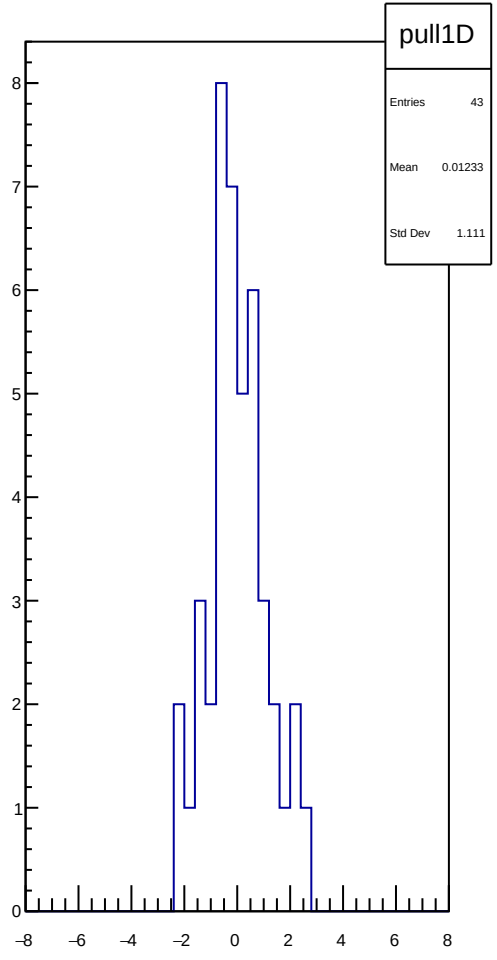

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 53.05 / 42
p0 26.56 ± 2395
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −158.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01233
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

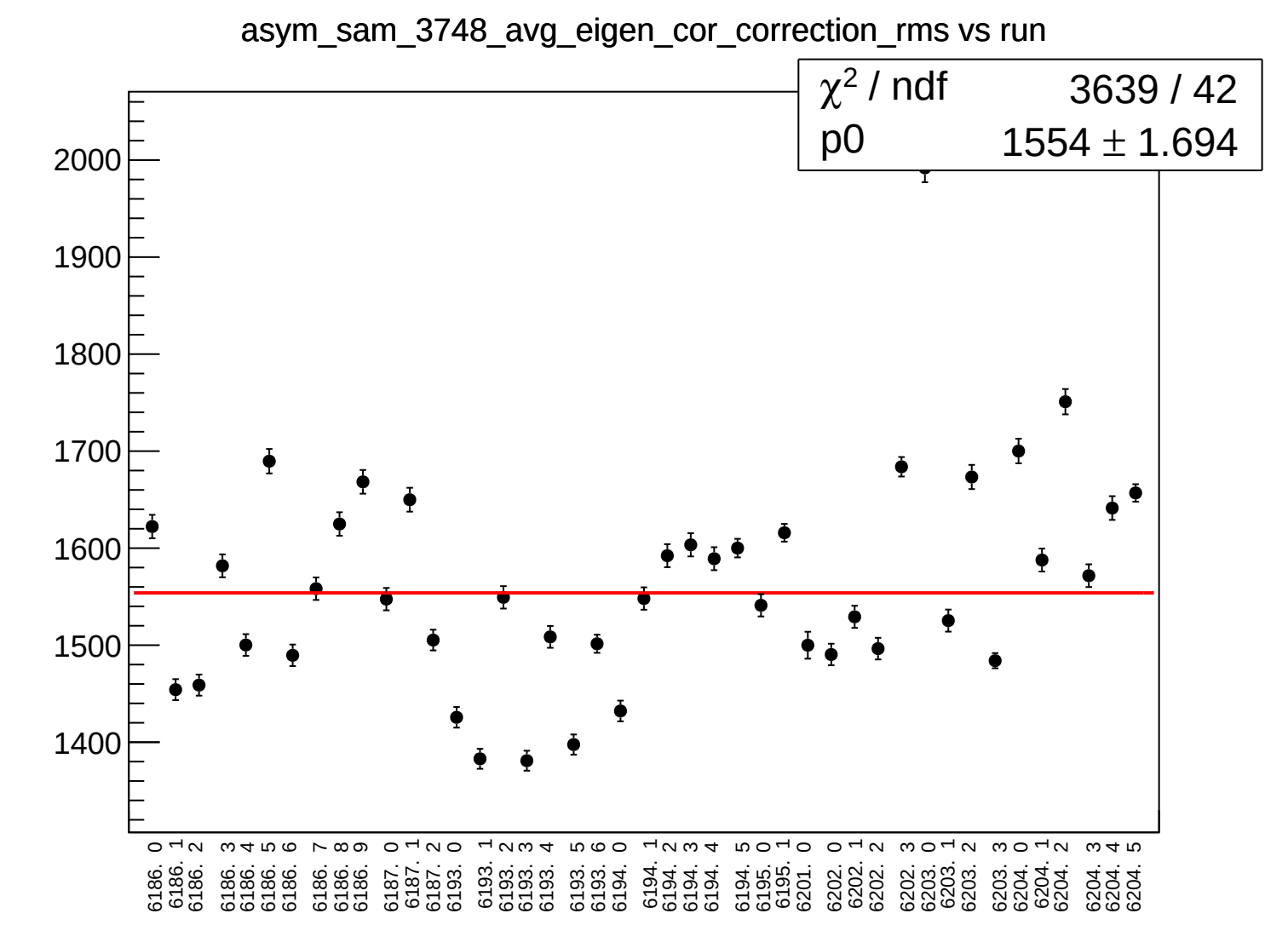

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 3639 / 42
p0 1554 ± 1.694
2000
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

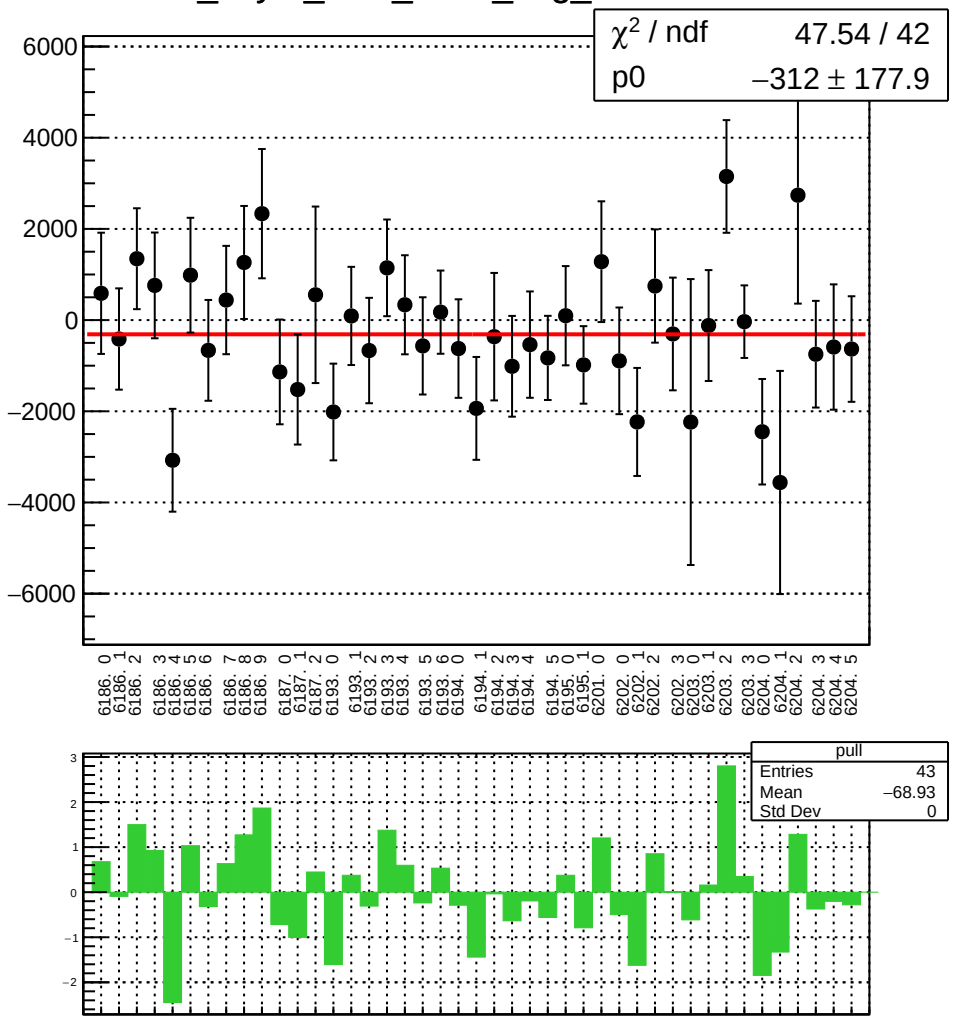

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 35.25 / 42
p0 −242.1± 163.7
pull
Entries 43
Mean −6.603
Std Dev 0
pull1D
Entries 43
Mean 0.04549
Std Dev 0.9042

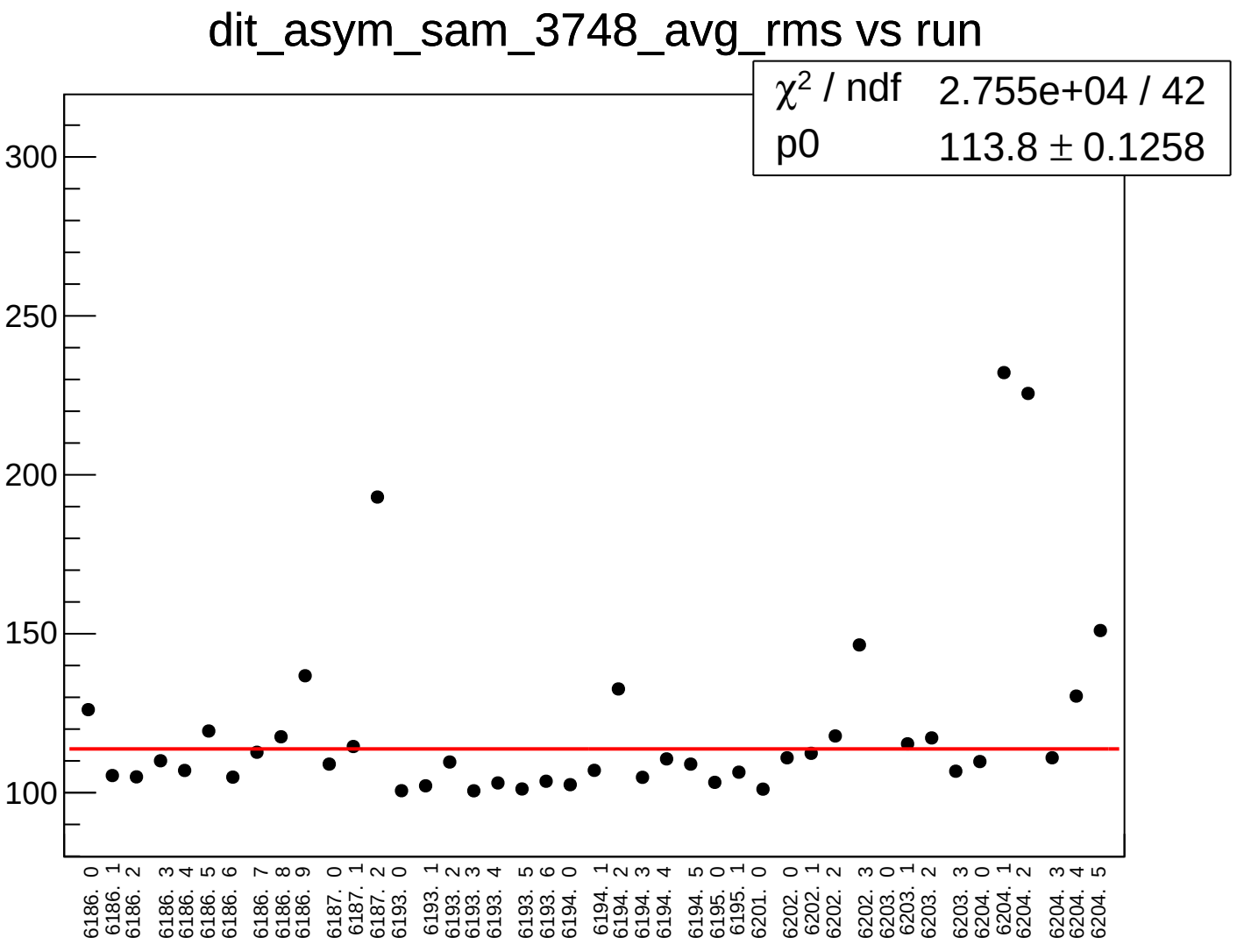

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.646e+04 / 42
p0 105.4 ± 0.1158
200
180
160
140
120
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

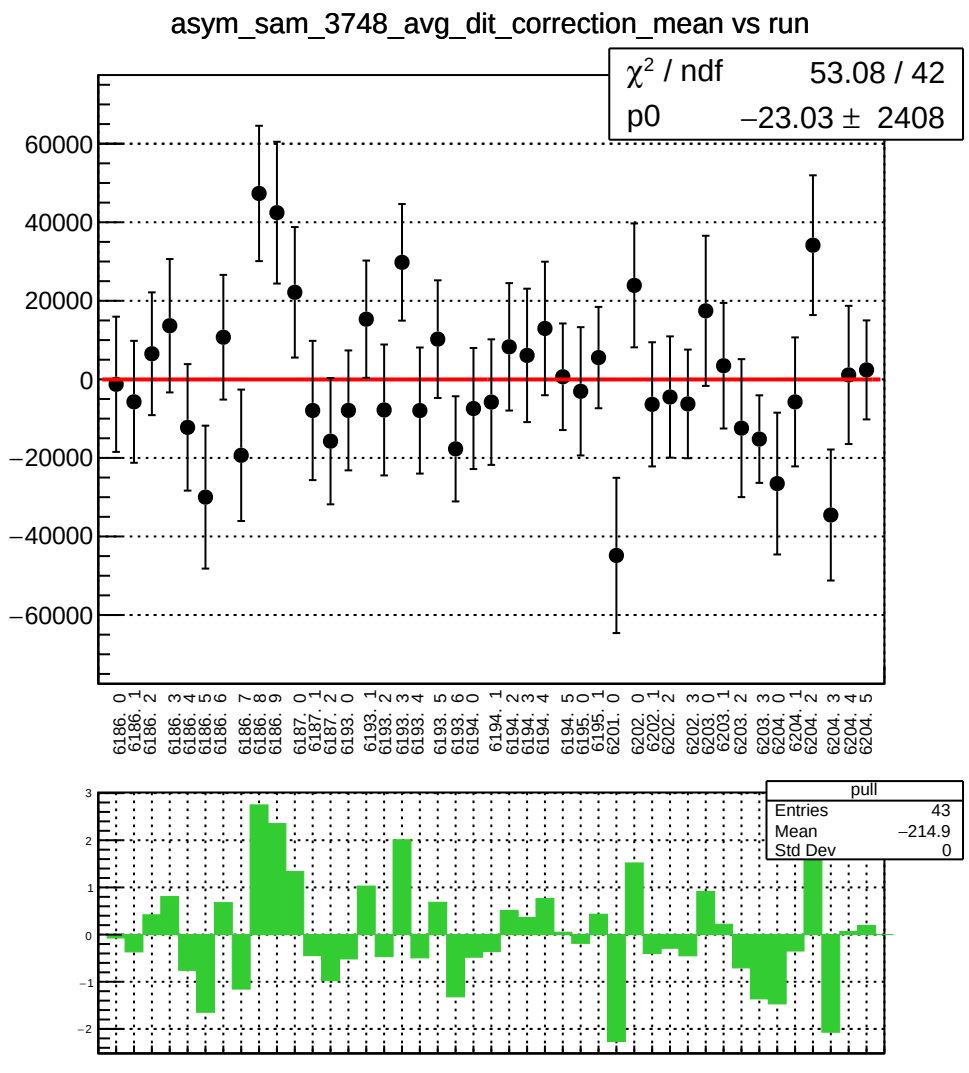

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 53.05 / 42
p0 26.56 ± 2395
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −158.6
Std Dev 0
3
2
1
0
−1
−2

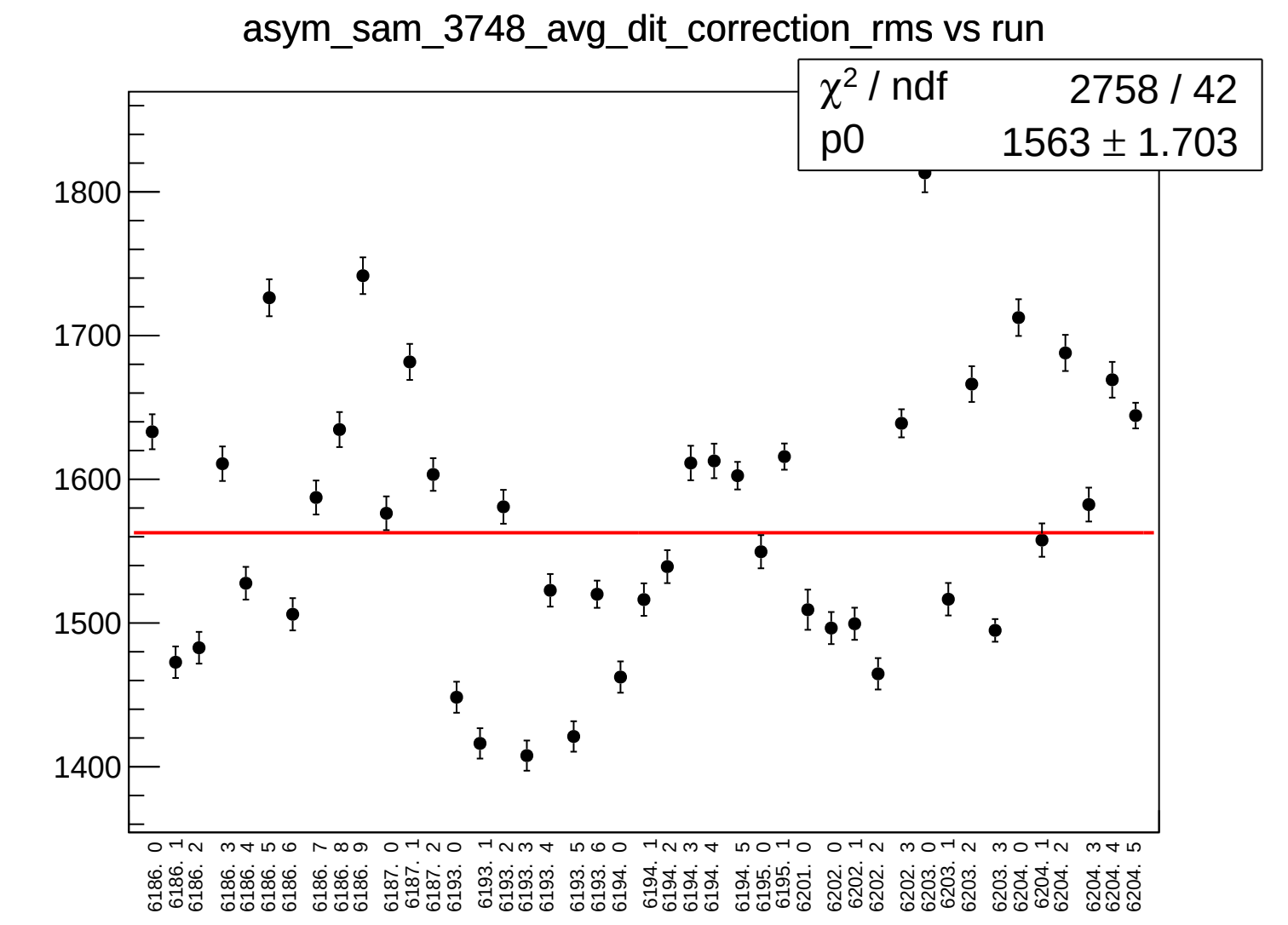

pull1D
Entries 43
Mean 0.01233
Std Dev 1.111
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

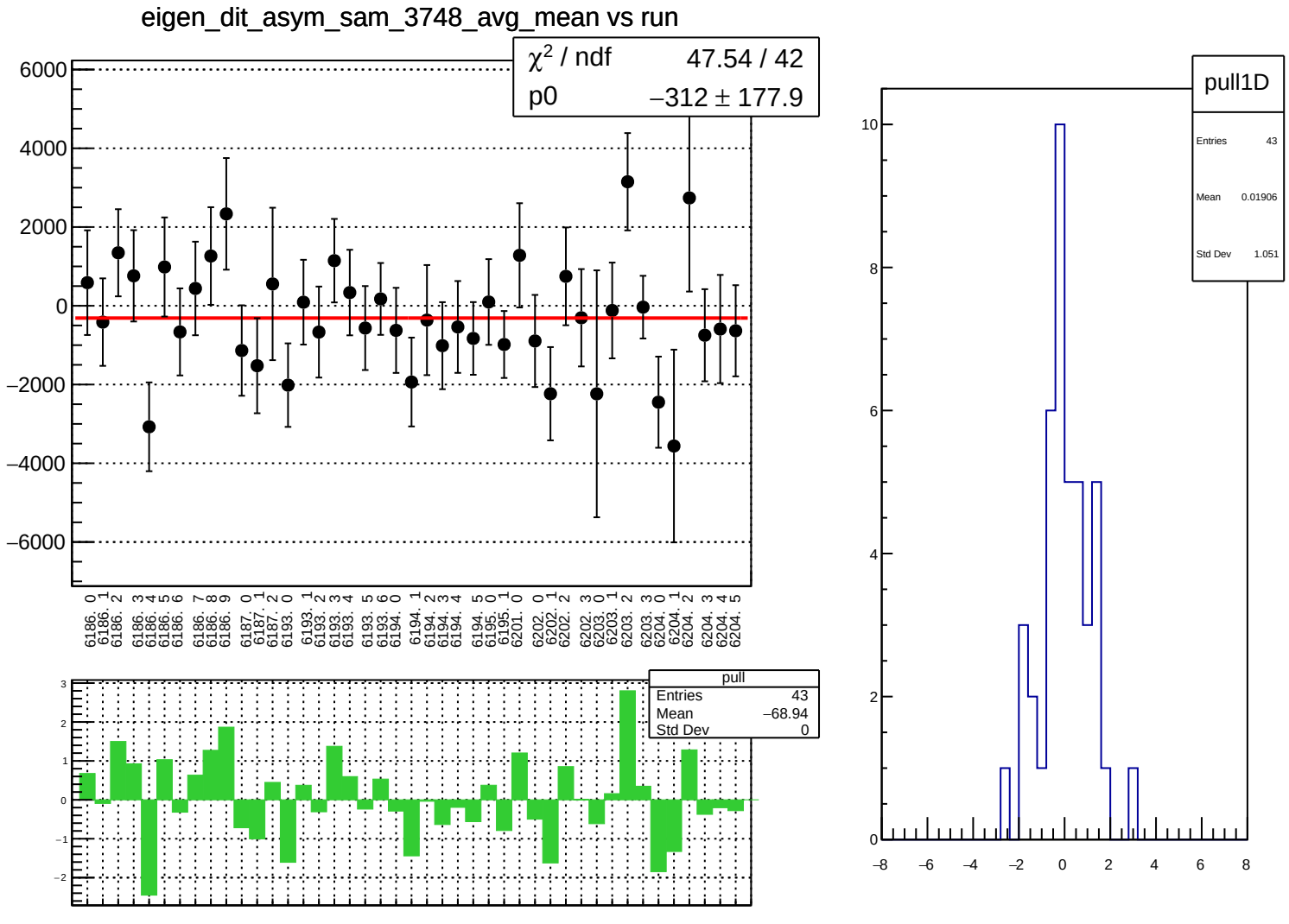

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 3639 / 42
p0 1554 ± 1.694
2000
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

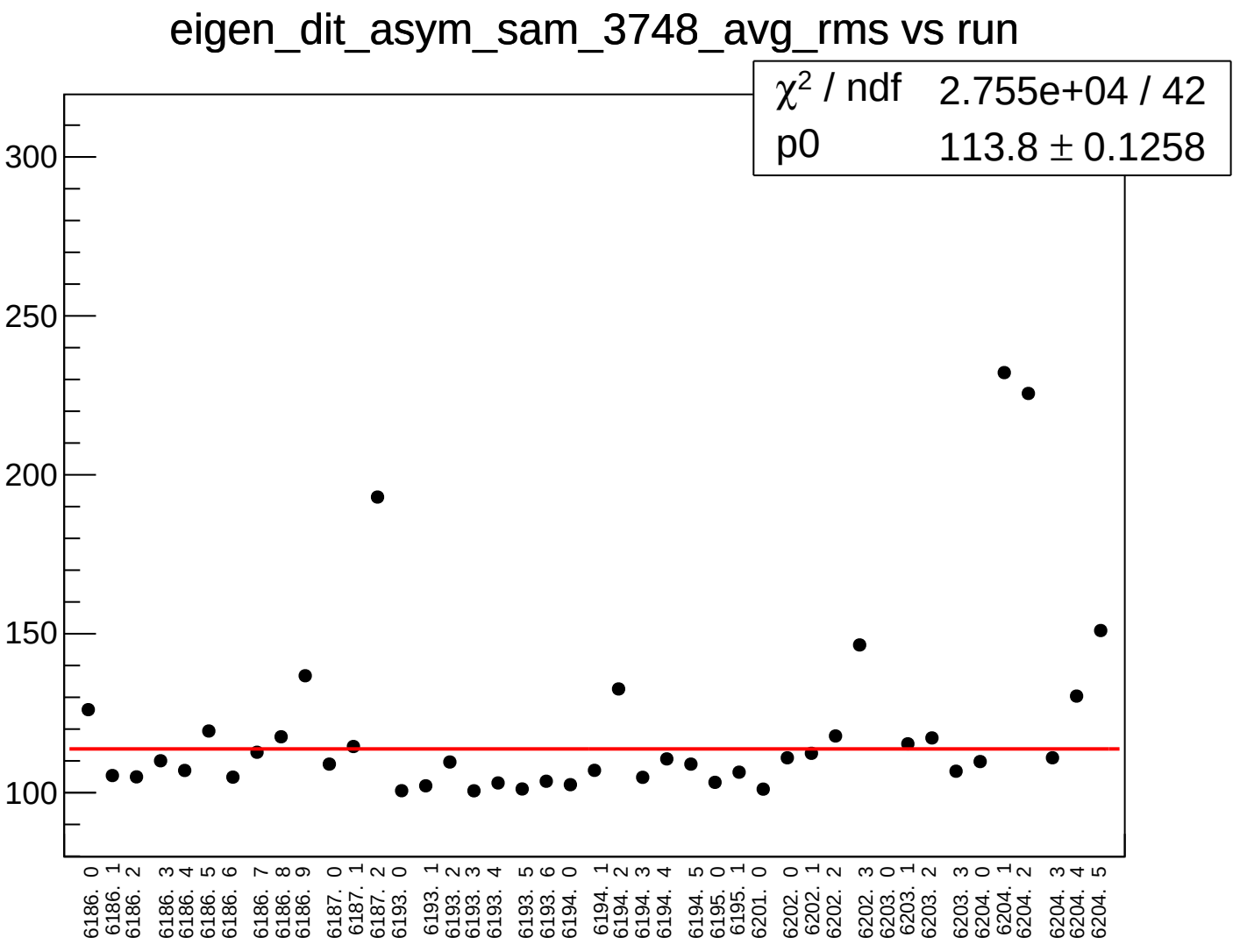

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 47.54 / 42
p0 −312 ± 177.9
6000
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −68.93
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01906
Std Dev 1.051
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

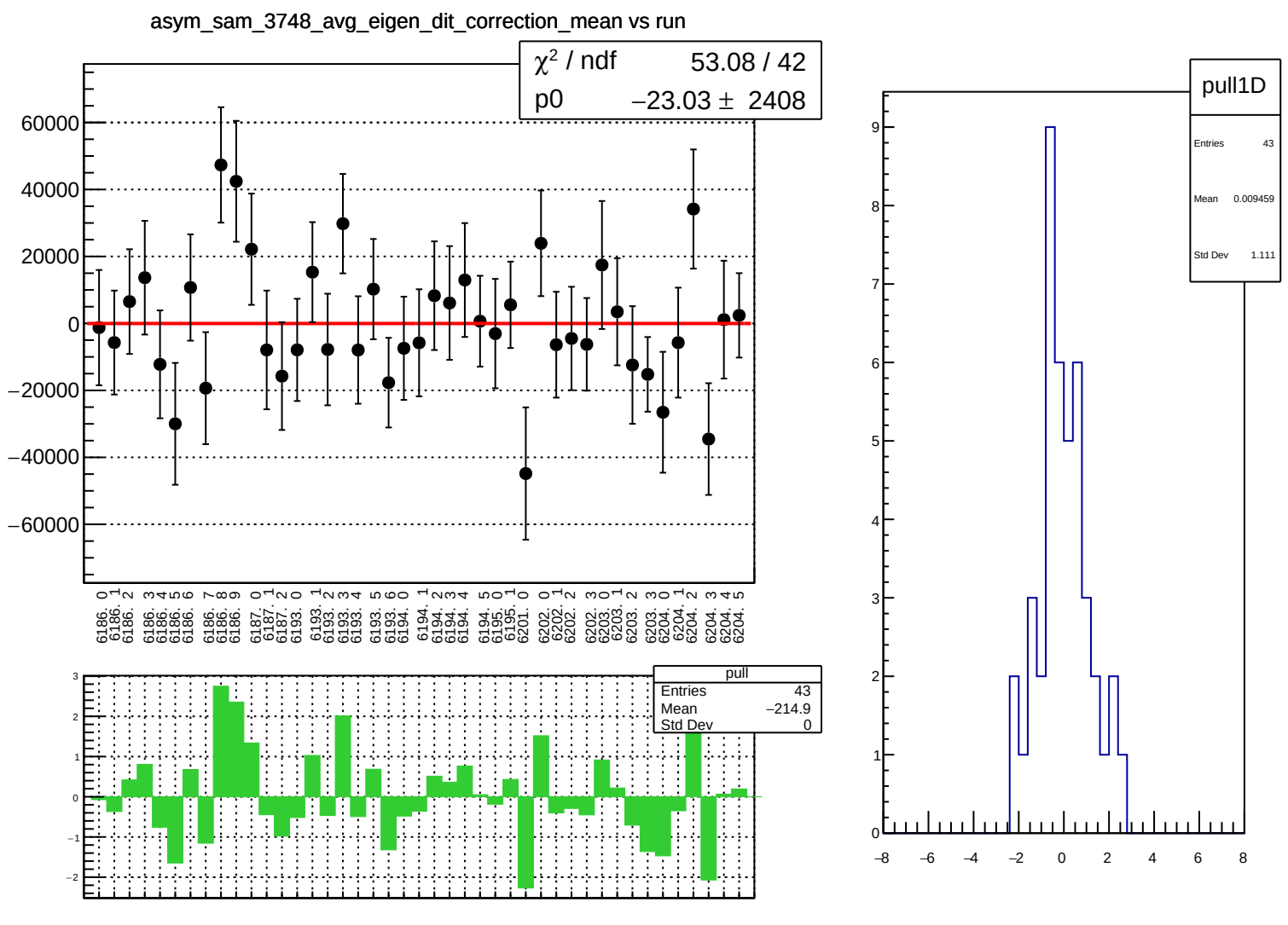

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.755e+04 / 42
p0 113.8 ± 0.1258
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

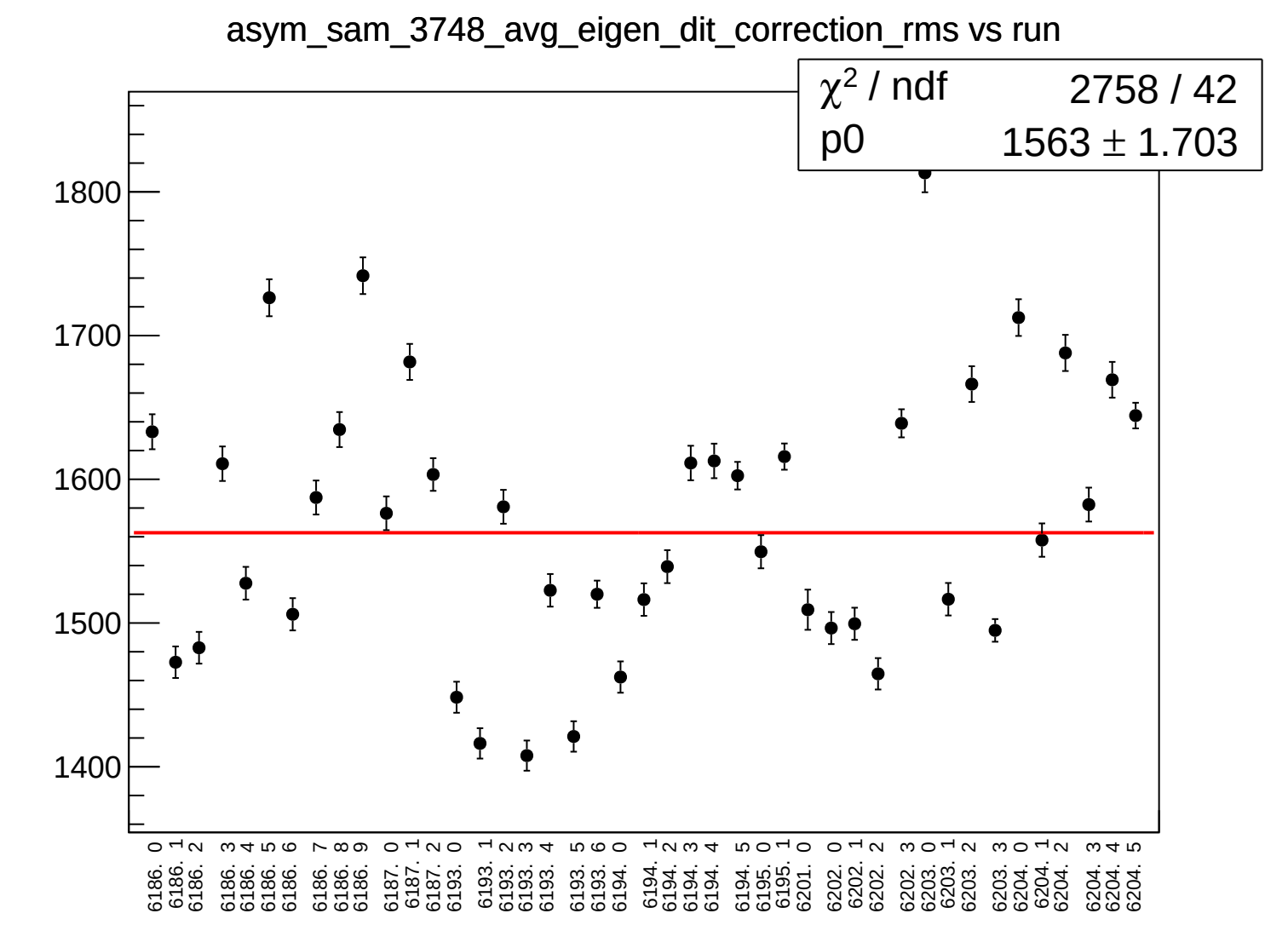

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 53.08 / 42
p0 −23.03 ± 2408
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −214.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.009459
Std Dev 1.111
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

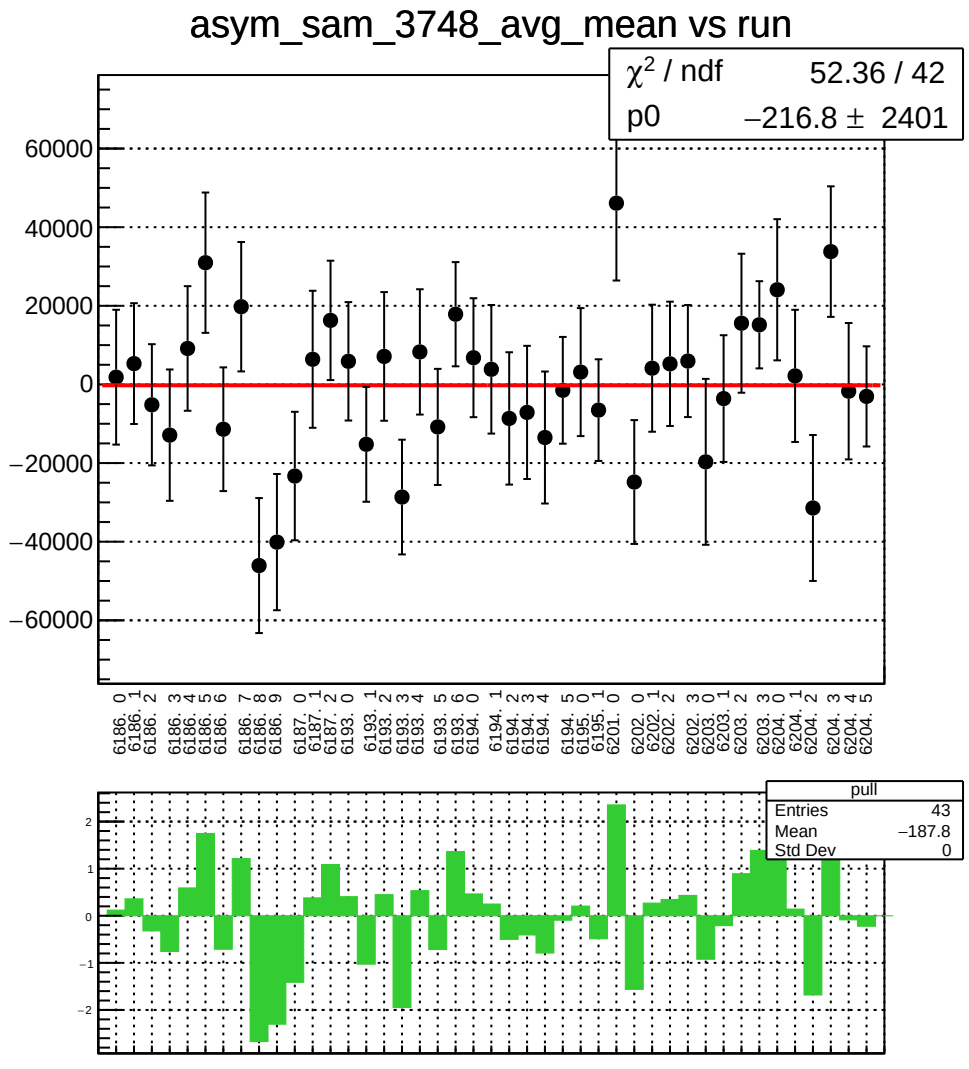

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 2758 / 42
p0 1563 ± 1.703
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

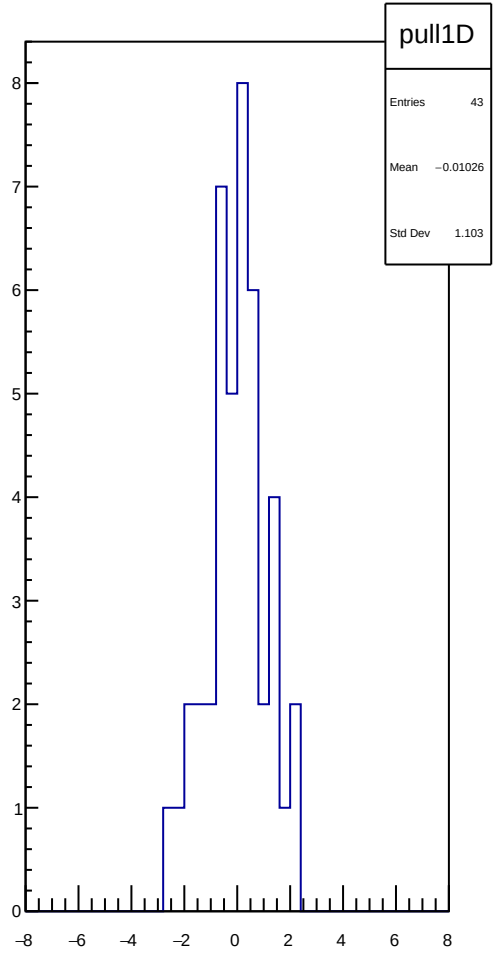

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 47.54 / 42
p0 −312 ± 177.9
6000
4000
2000
0
−2000
−4000
−6000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −68.94
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01906
Std Dev 1.051
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

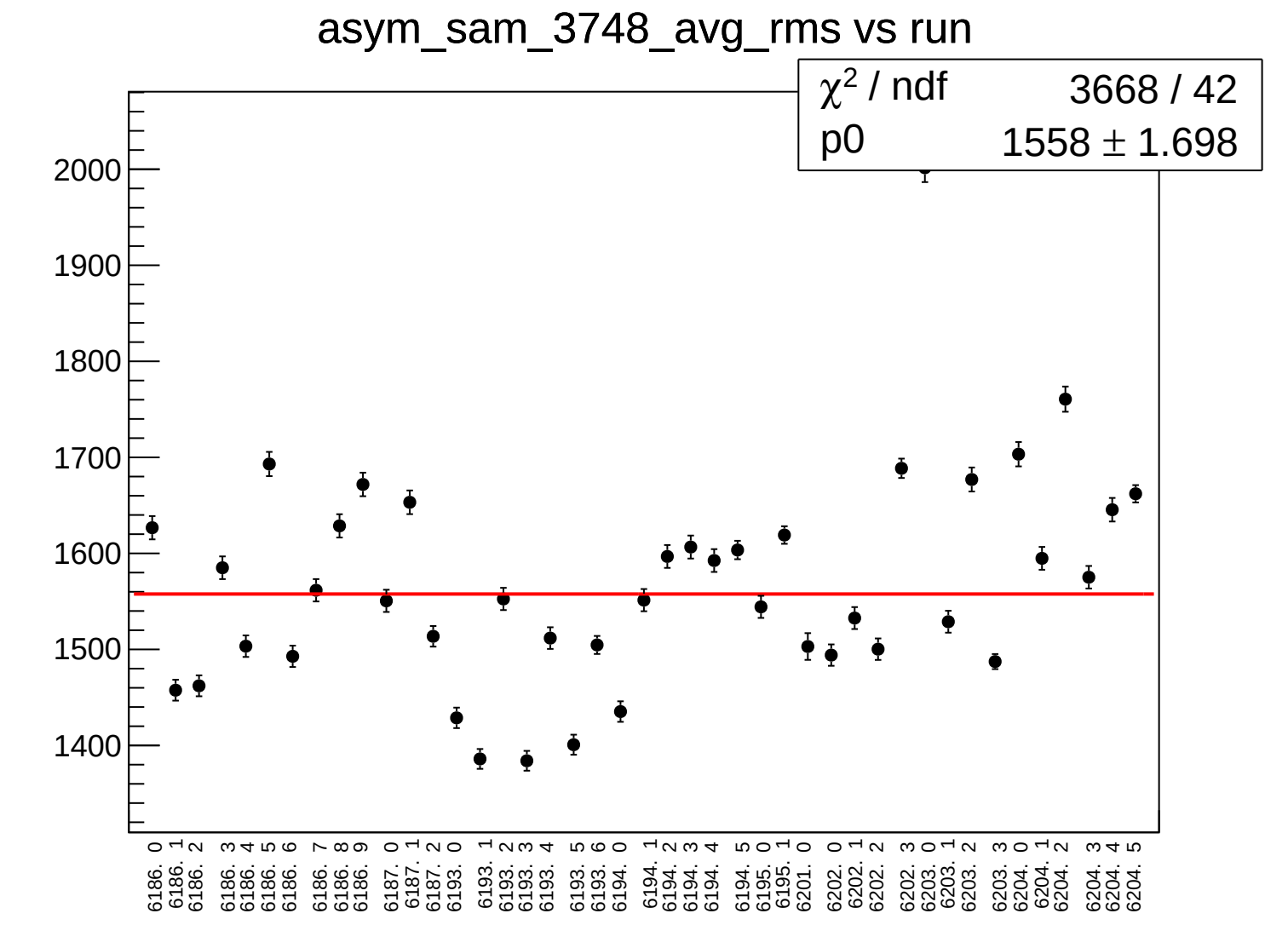

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.755e+04 / 42
p0 113.8 ± 0.1258
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

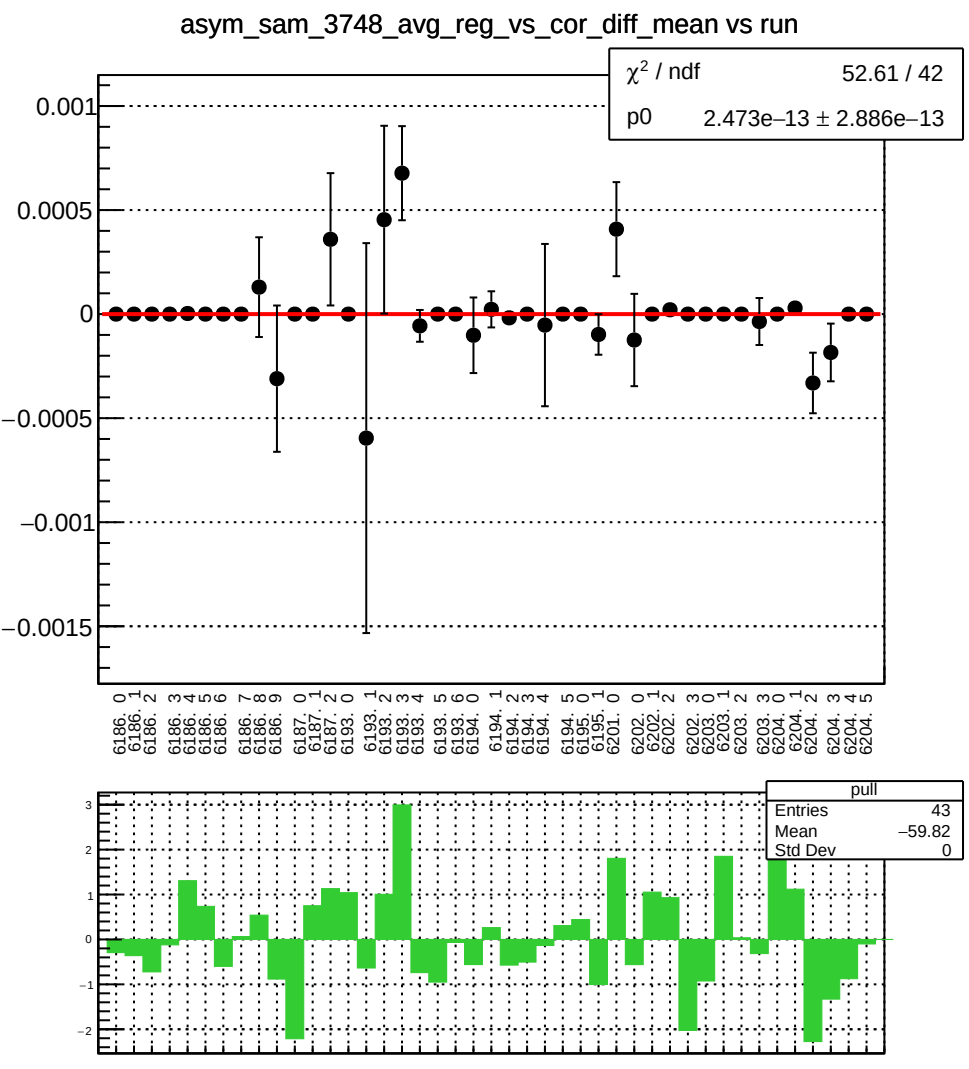

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 53.08 / 42
p0 −23.03 ± 2408
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −214.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.009459
Std Dev 1.111
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

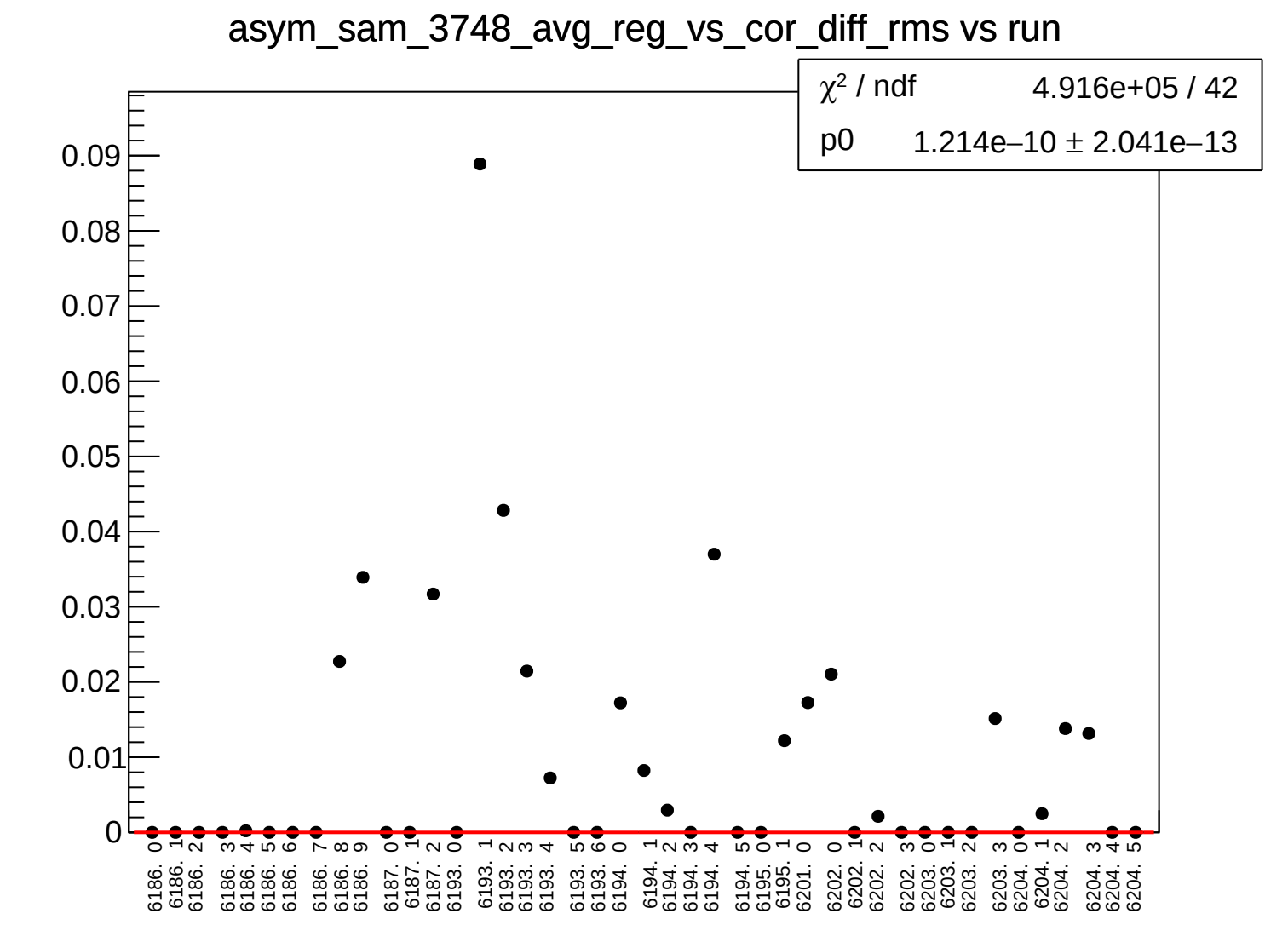

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 2758 / 42
p0 1563 ± 1.703
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_3748_avg_mean vs run
χ² / ndf 52.36 / 42
p0 −216.8 ± 2401
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −187.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 43
Mean −0.01026
Std Dev 1.103
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3748_avg_rms vs run
χ² / ndf 3668 / 42
p0 1558 ± 1.698
2000
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 52.61 / 42
p0 2.473e−13 ± 2.886e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −59.82
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.009701
Std Dev 1.106
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 4.916e+05 / 42
p0 1.214e−10 ± 2.041e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6203. 2
6203. 3
6204. 0
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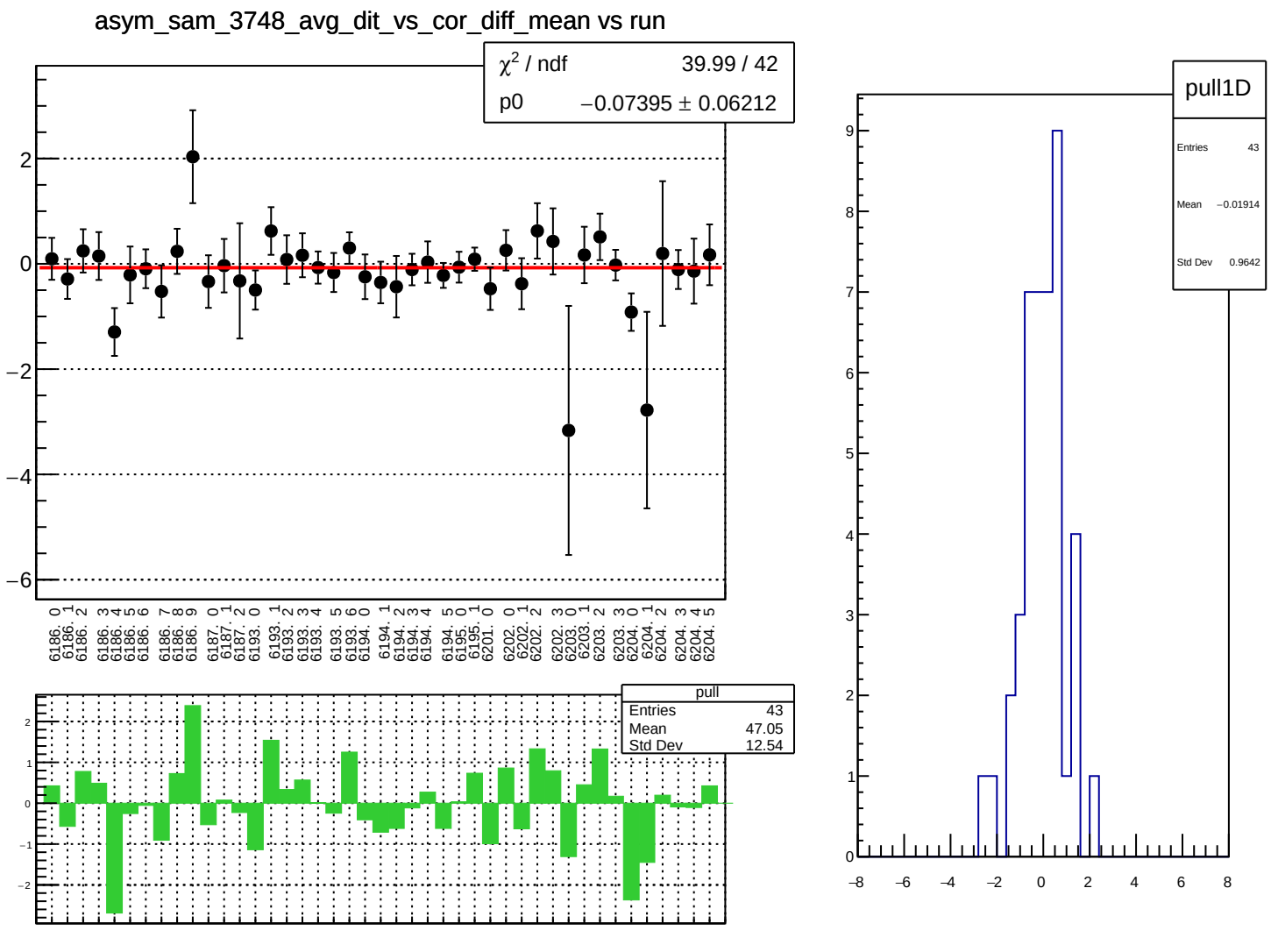
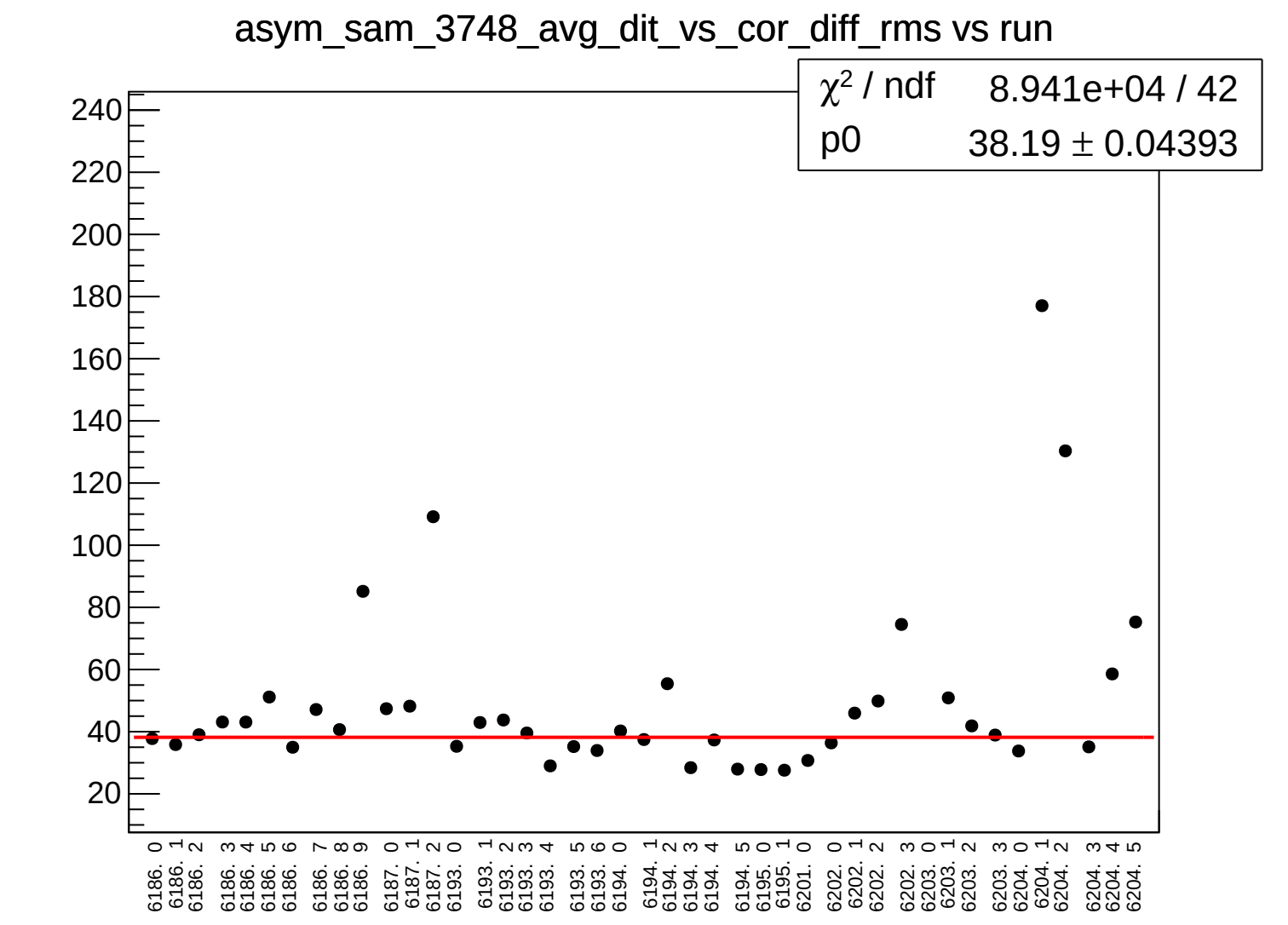
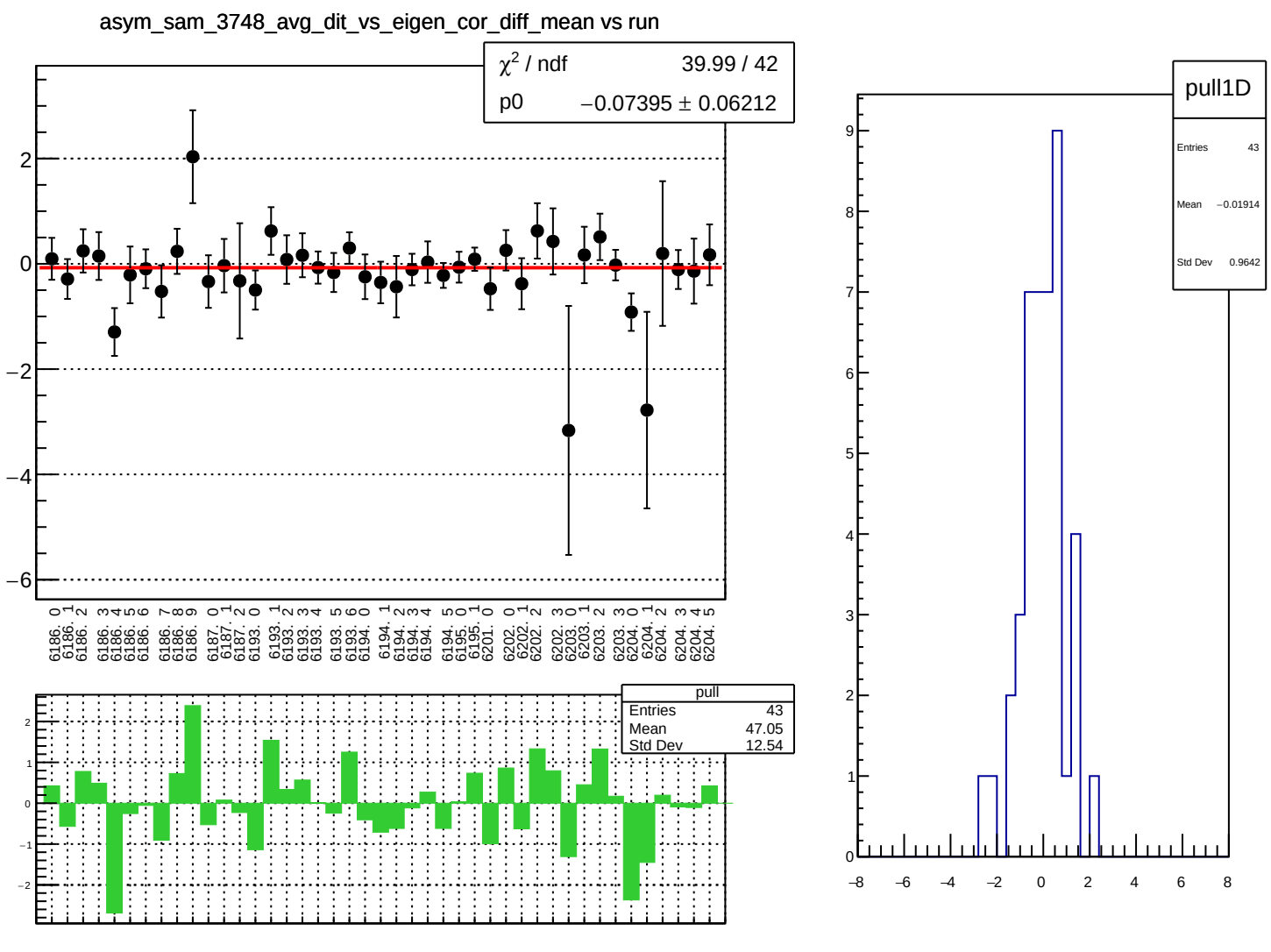
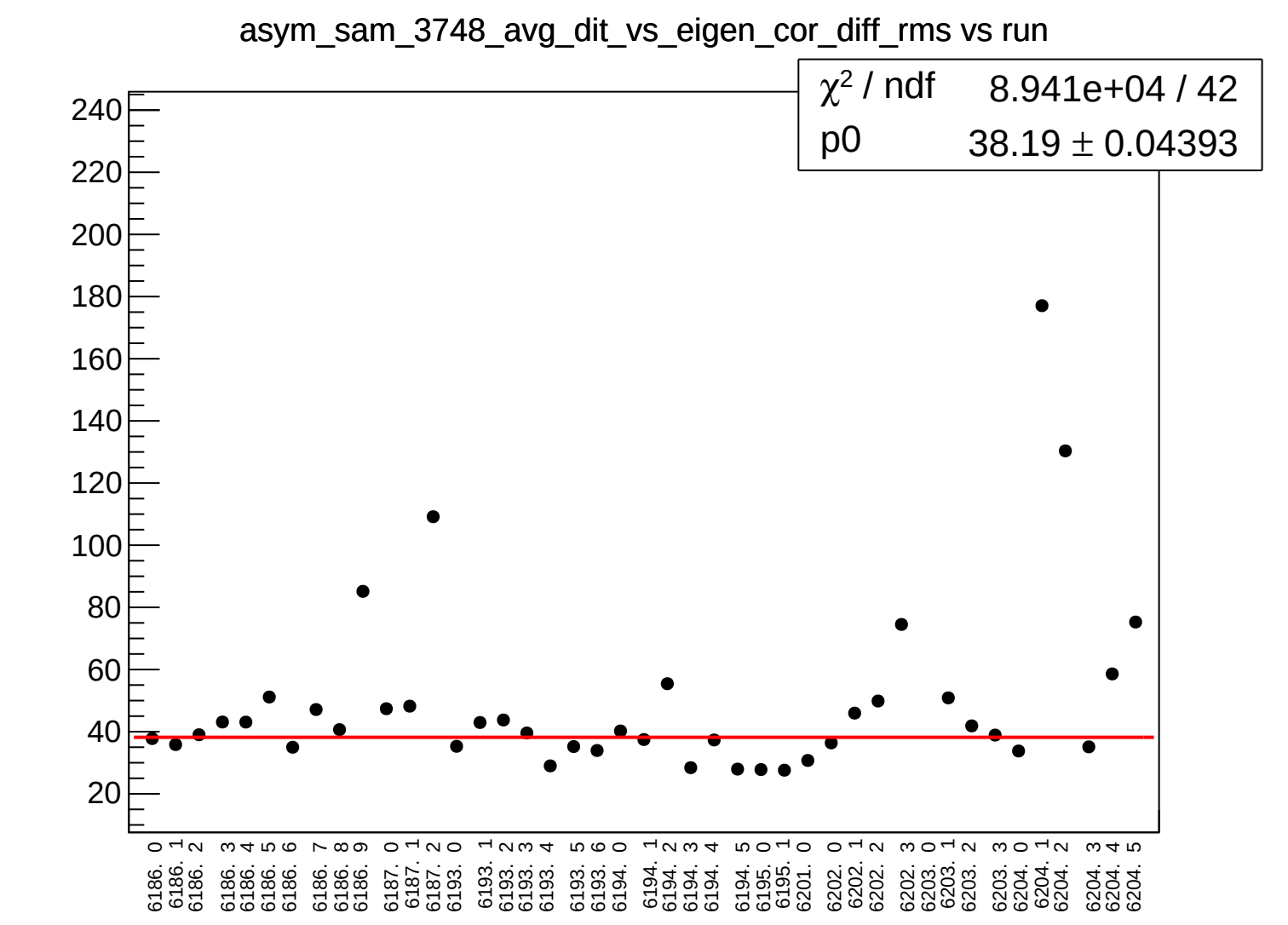
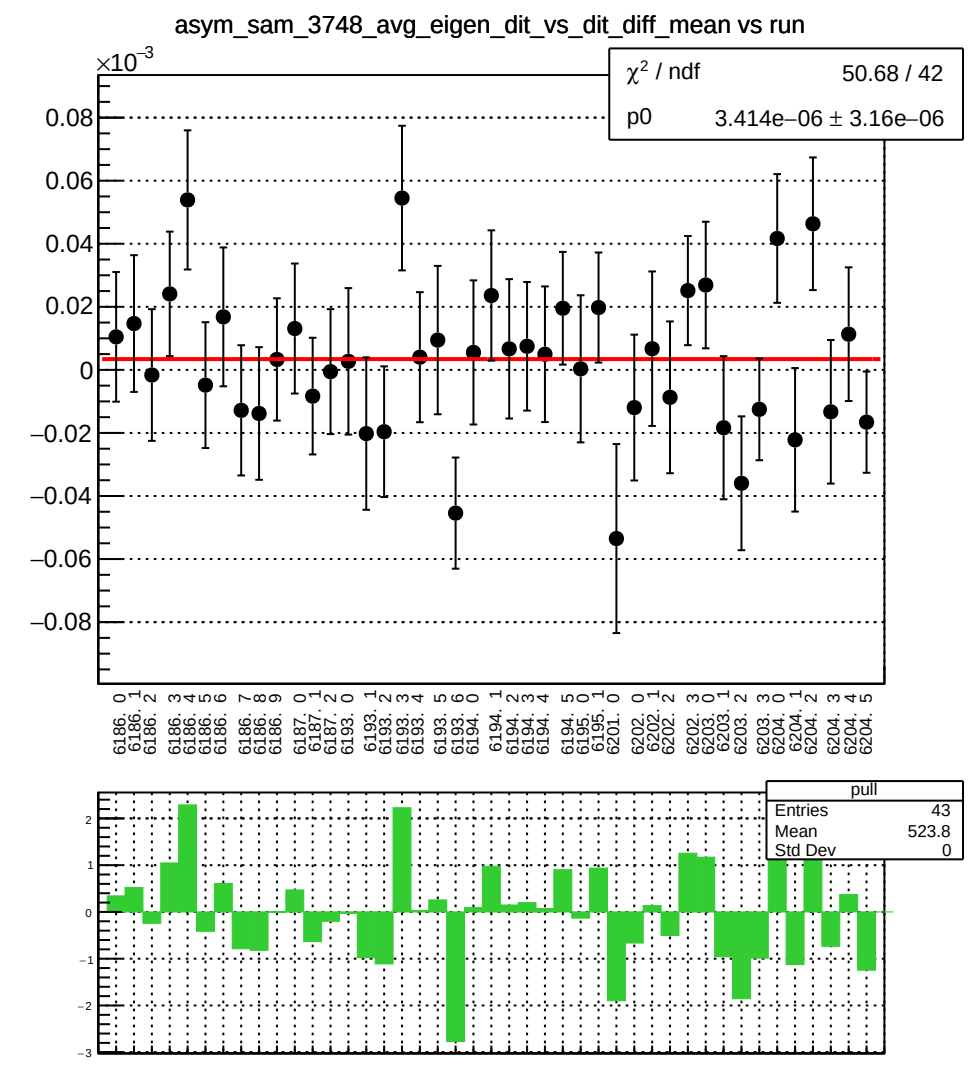
6204. 2
6204. 3
6204. 4
6204. 5

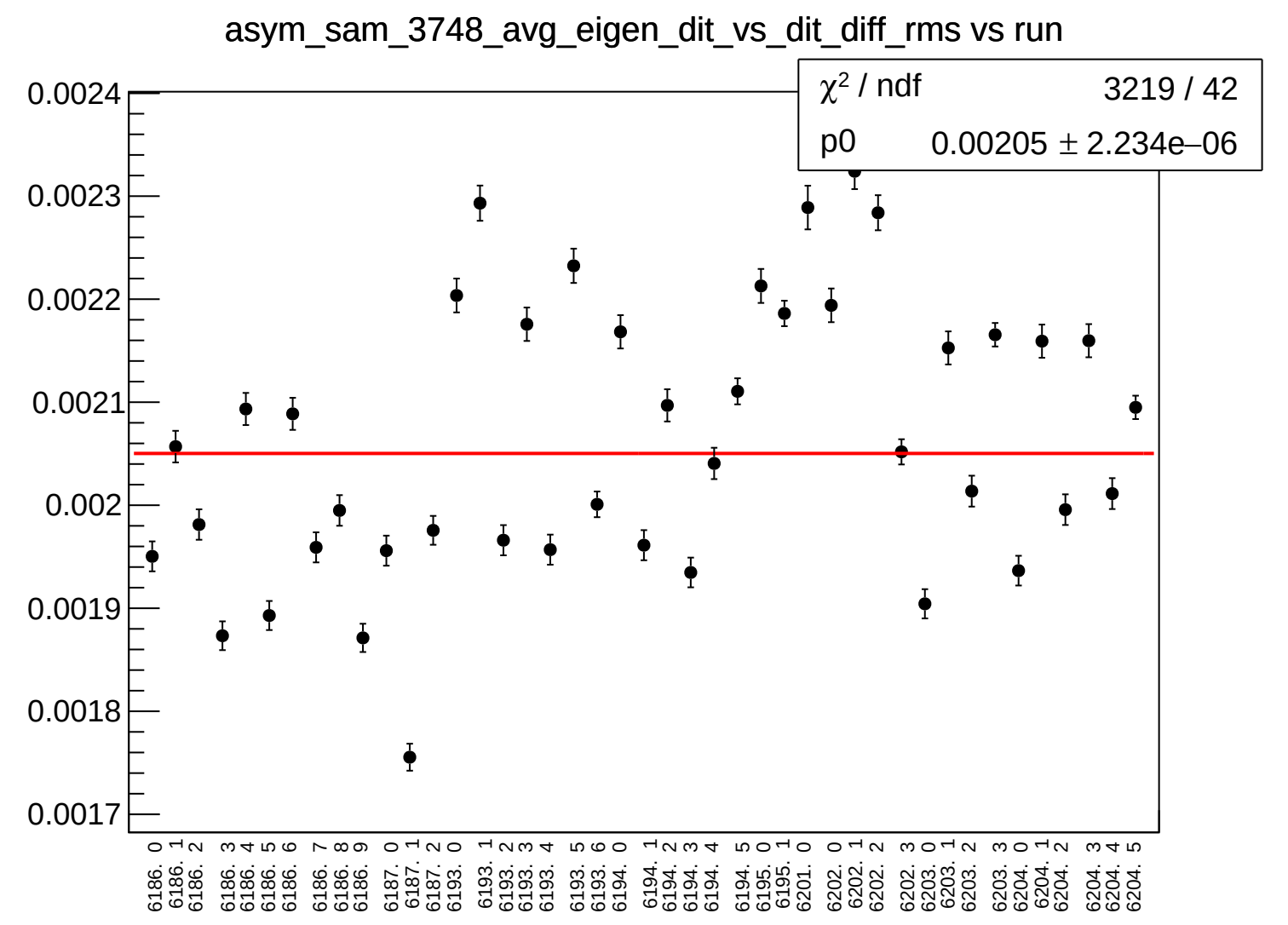

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 39.99 / 42
p0 −0.07395 ± 0.06212
pull
Entries 43
Mean 47.05
Std Dev 12.54
pull1D
Entries 43
Mean −0.01914
Std Dev 0.9642

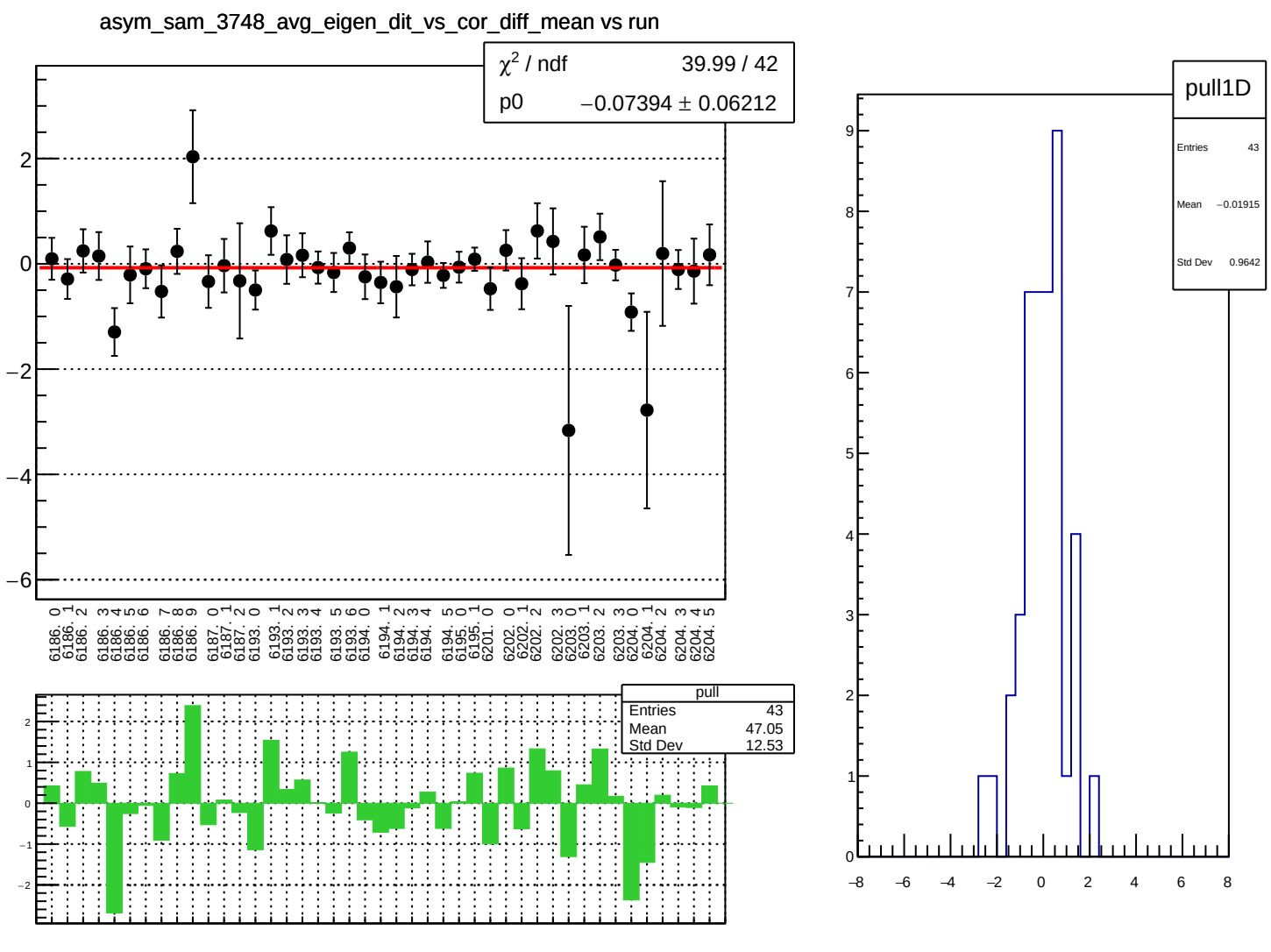

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.941e+04 / 42
p0 38.19 ± 0.04393
240
220
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

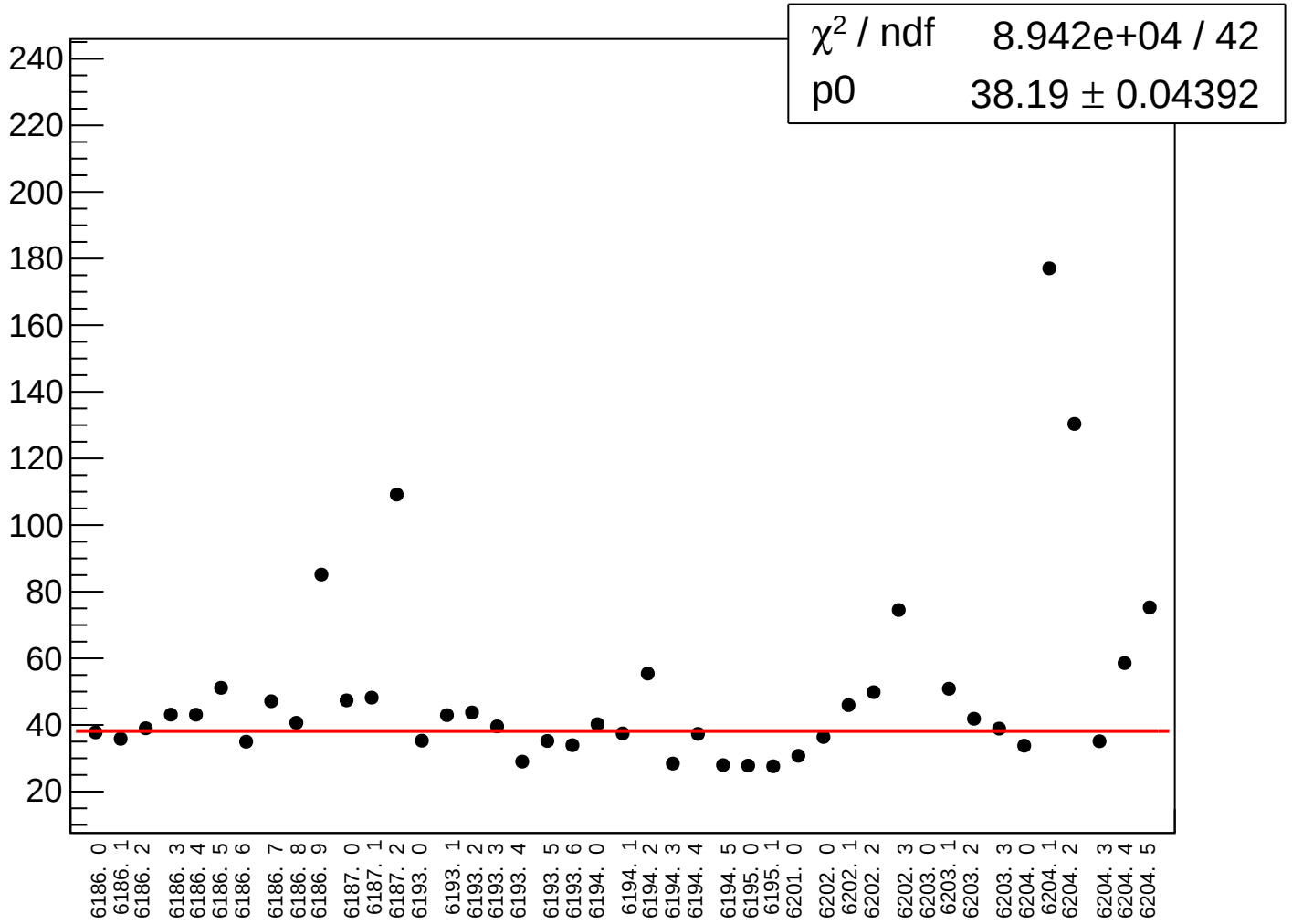

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.99 / 42
p0 −0.07395 ± 0.06212
pull
Entries 43
Mean 47.05
Std Dev 12.54
pull1D
Entries 43
Mean −0.01914
Std Dev 0.9642

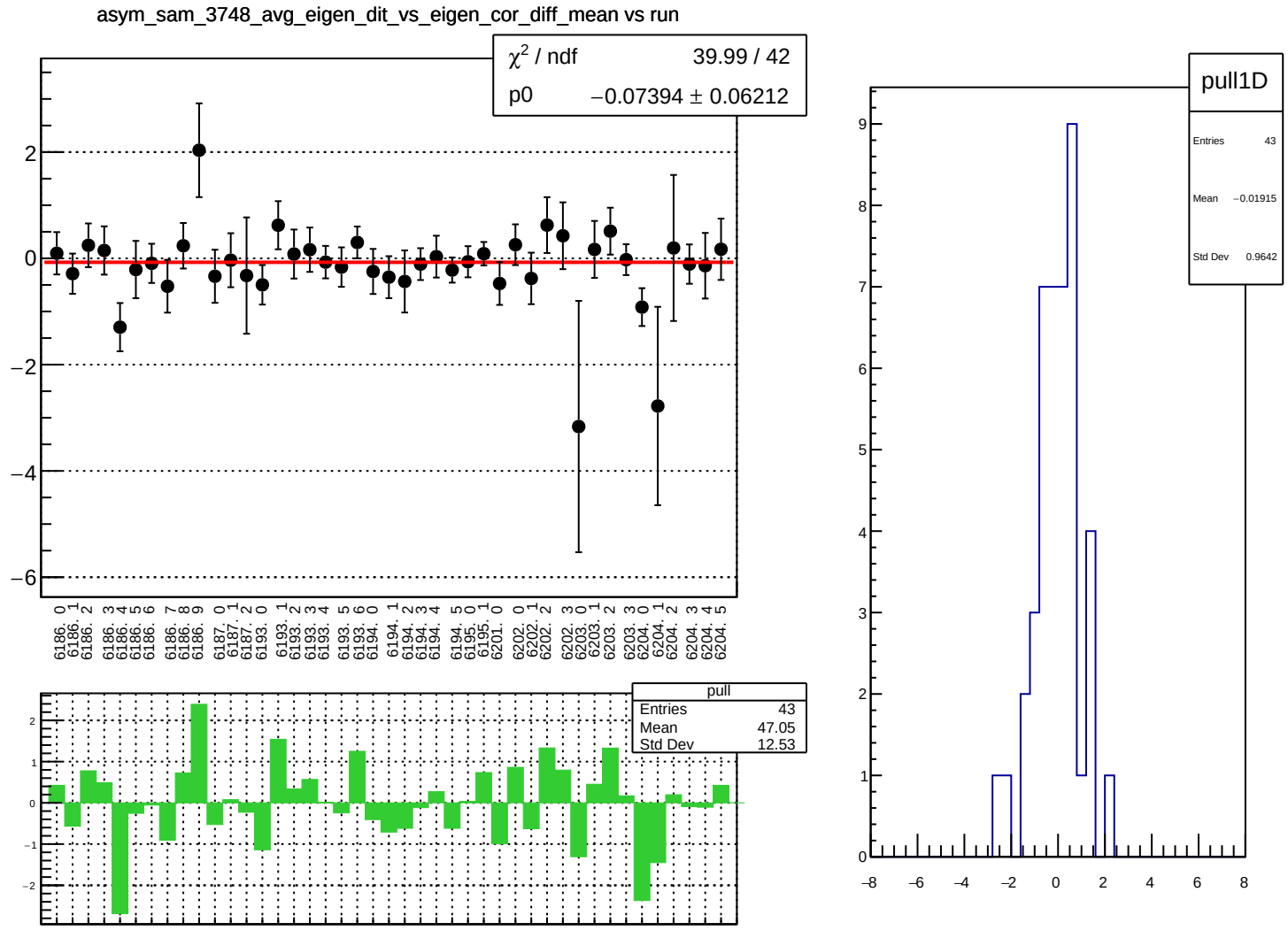

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.941e+04 / 42
p0 38.19 ± 0.04393
240
220
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

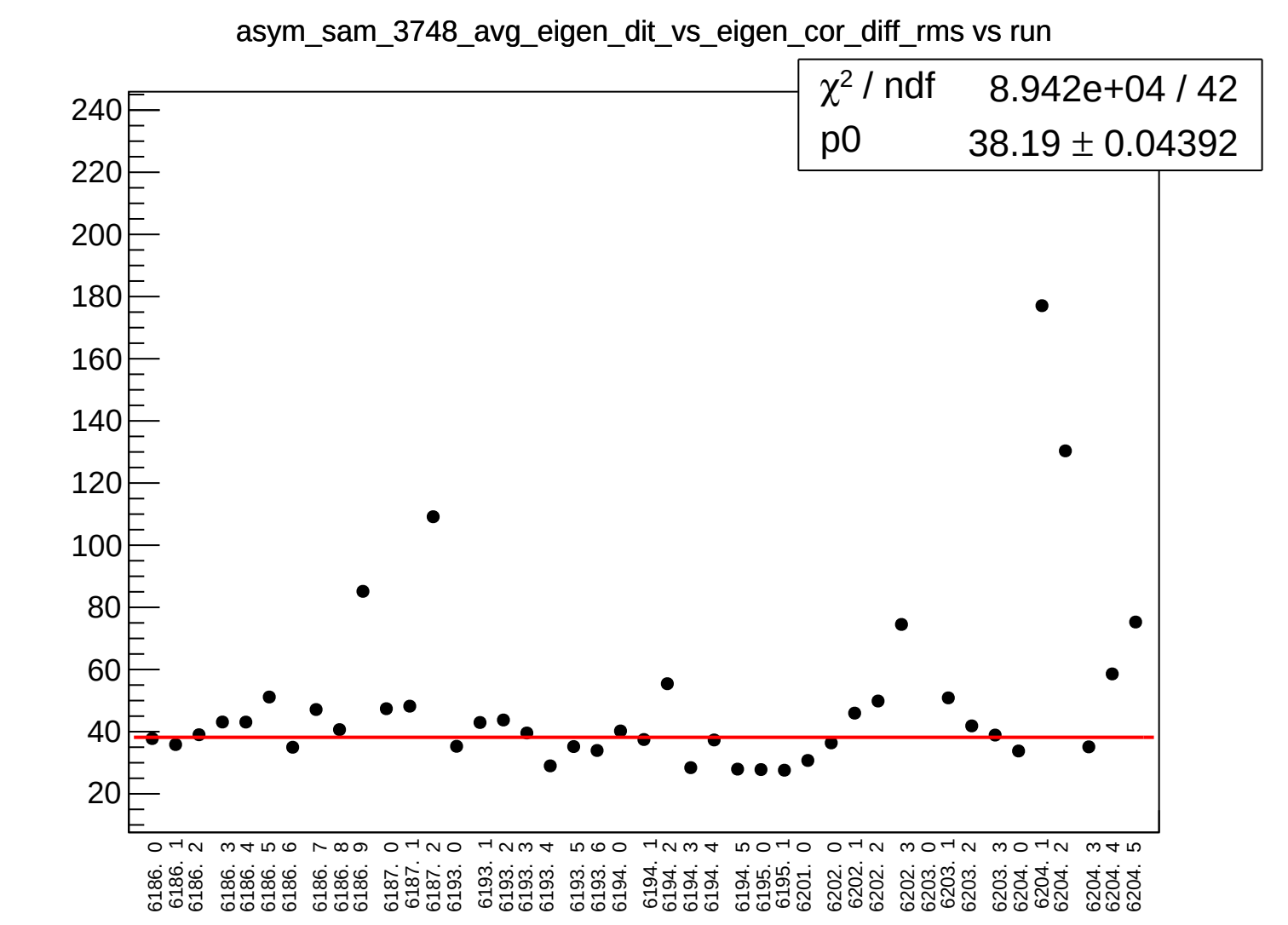

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 50.68 / 42
p0 3.414e−06 ± 3.16e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 523.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.003006
Std Dev 1.086
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

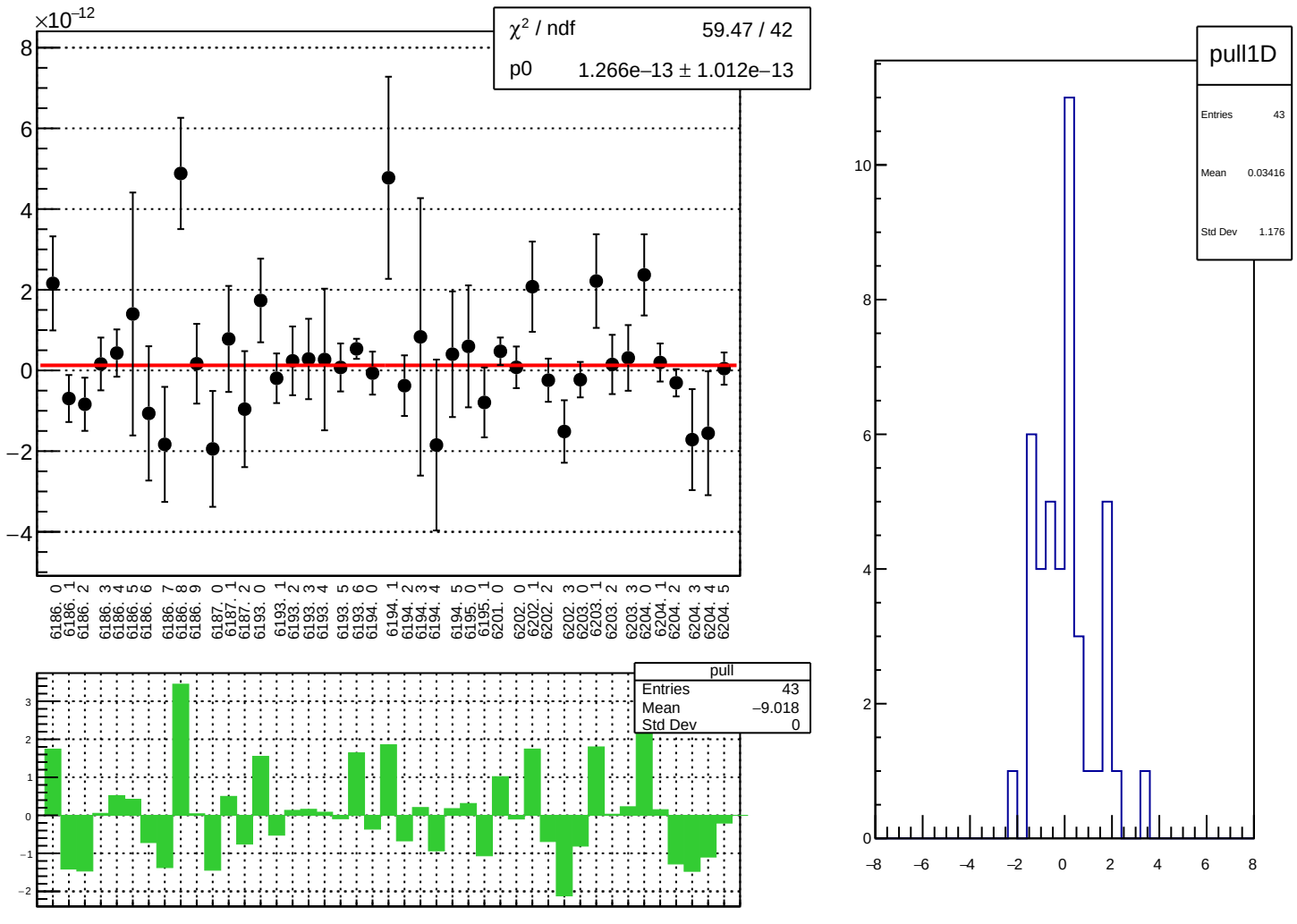

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3219 / 42
p0 0.00205 ± 2.234e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

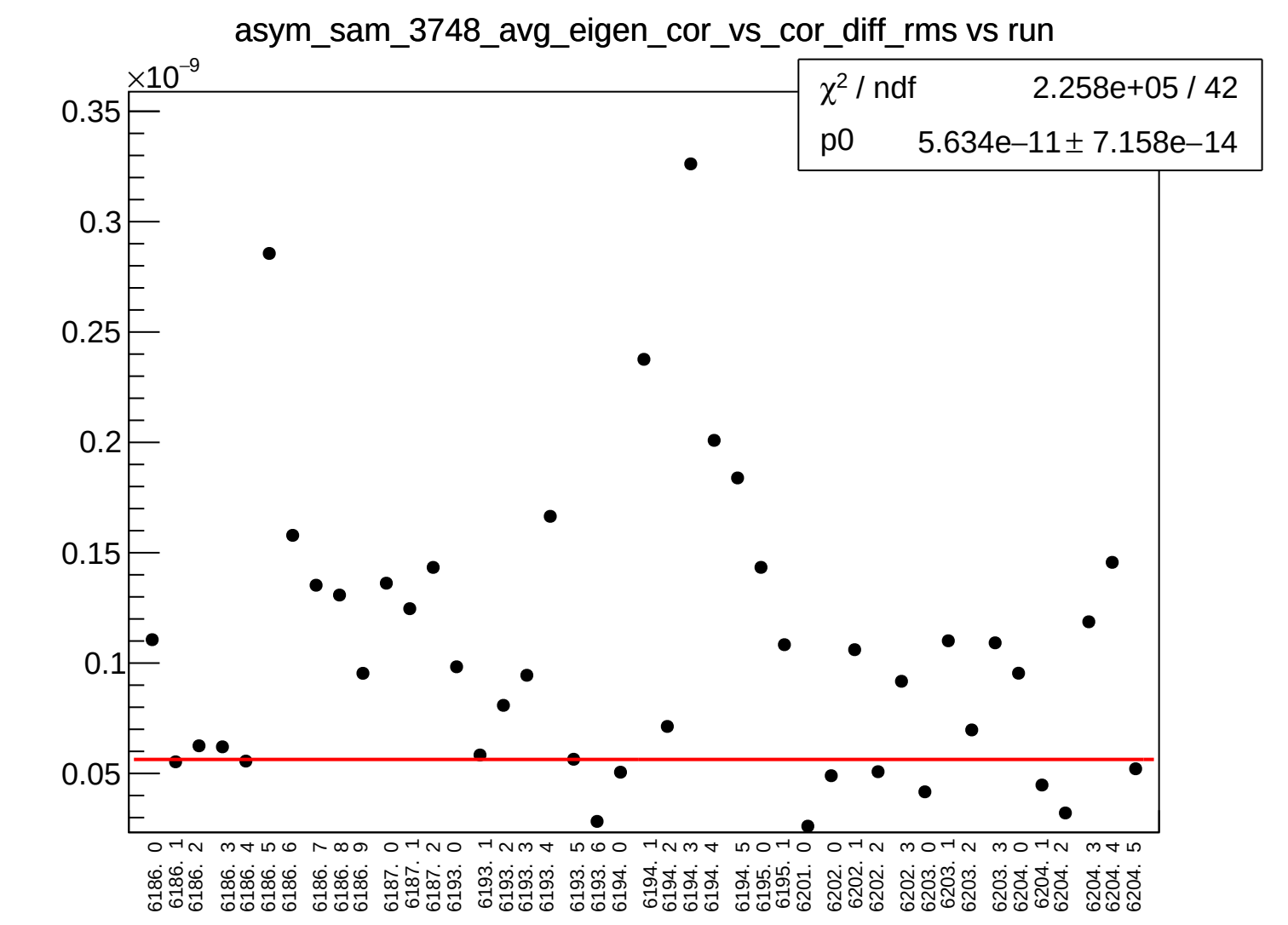

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 39.99 / 42
p0 −0.07394 ± 0.06212
pull
Entries 43
Mean 47.05
Std Dev 12.53
pull1D
Entries 43
Mean −0.01915
Std Dev 0.9642

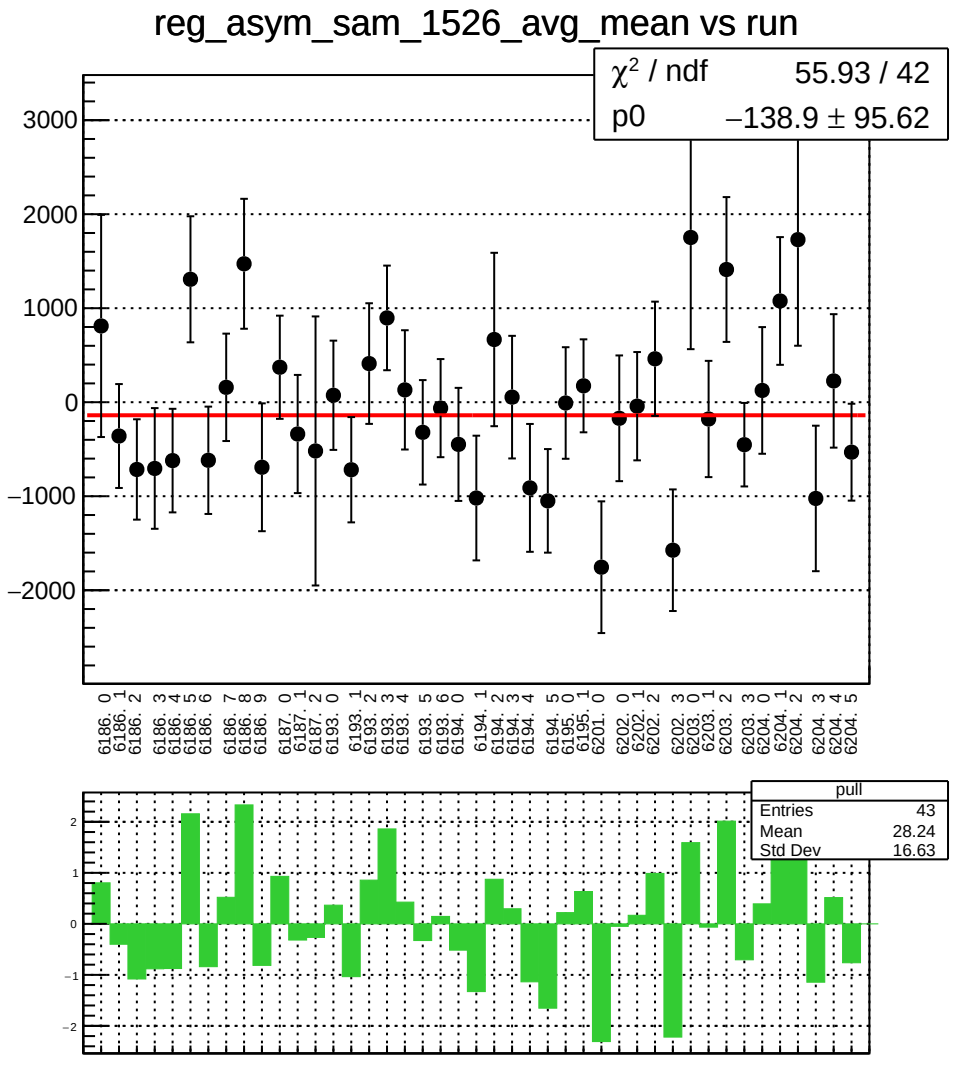

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.942e+04 / 42
p0 38.19 ± 0.04392
240
220
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

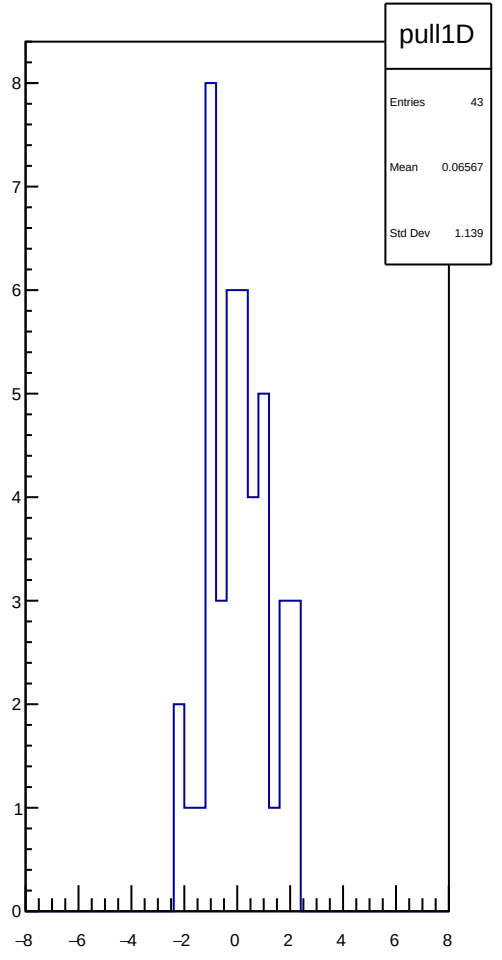

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 39.99 / 42
p0 −0.07394 ± 0.06212
pull
Entries 43
Mean 47.05
Std Dev 12.53
pull1D
Entries 43
Mean −0.01915
Std Dev 0.9642

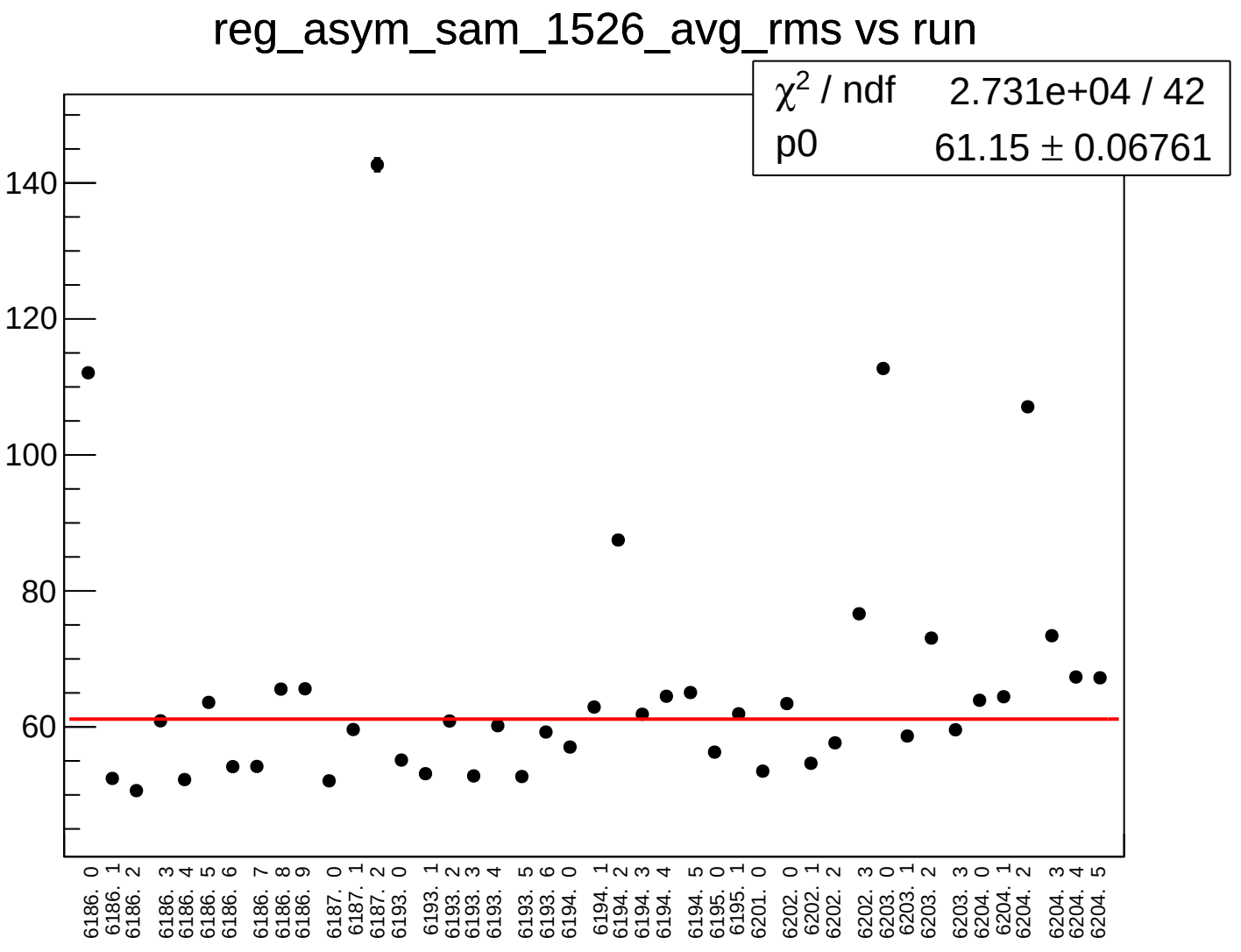

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.942e+04 / 42
p0 38.19 ± 0.04392
240
220
200
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

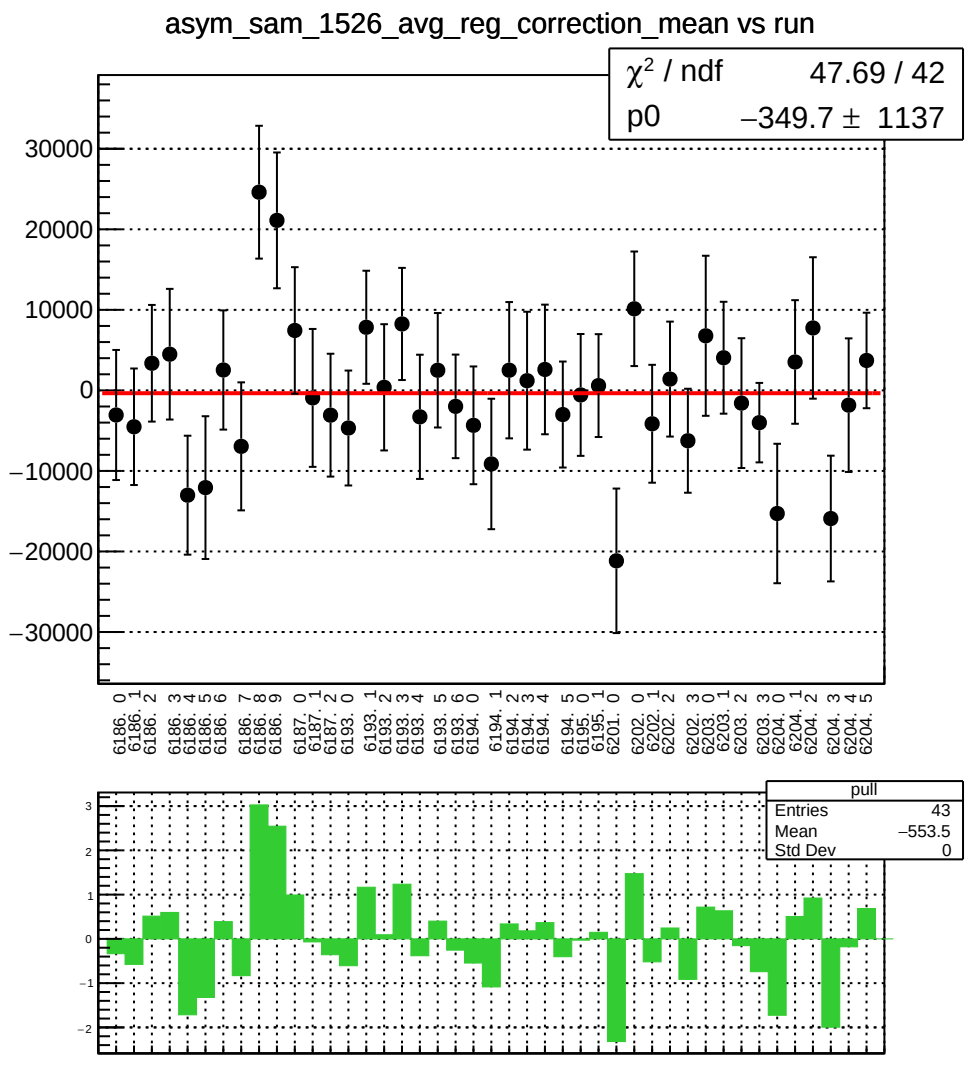

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 59.47 / 42
p0 1.266e−13 ± 1.012e−13
8
6
4
2
0
−2
−4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −9.018
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.03416
Std Dev 1.176
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

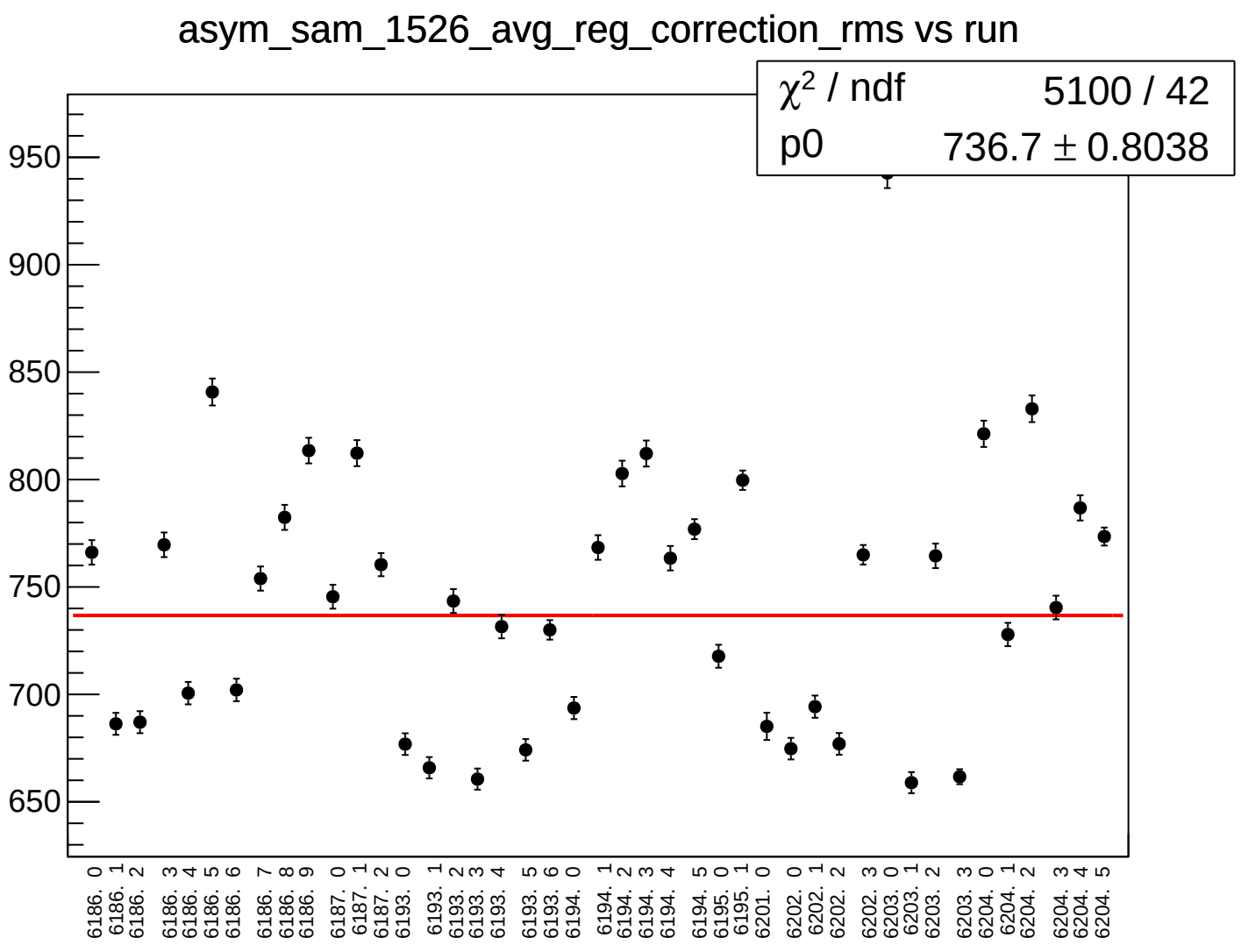

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.258e+05 / 42
p0 5.634e−11 ± 7.158e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

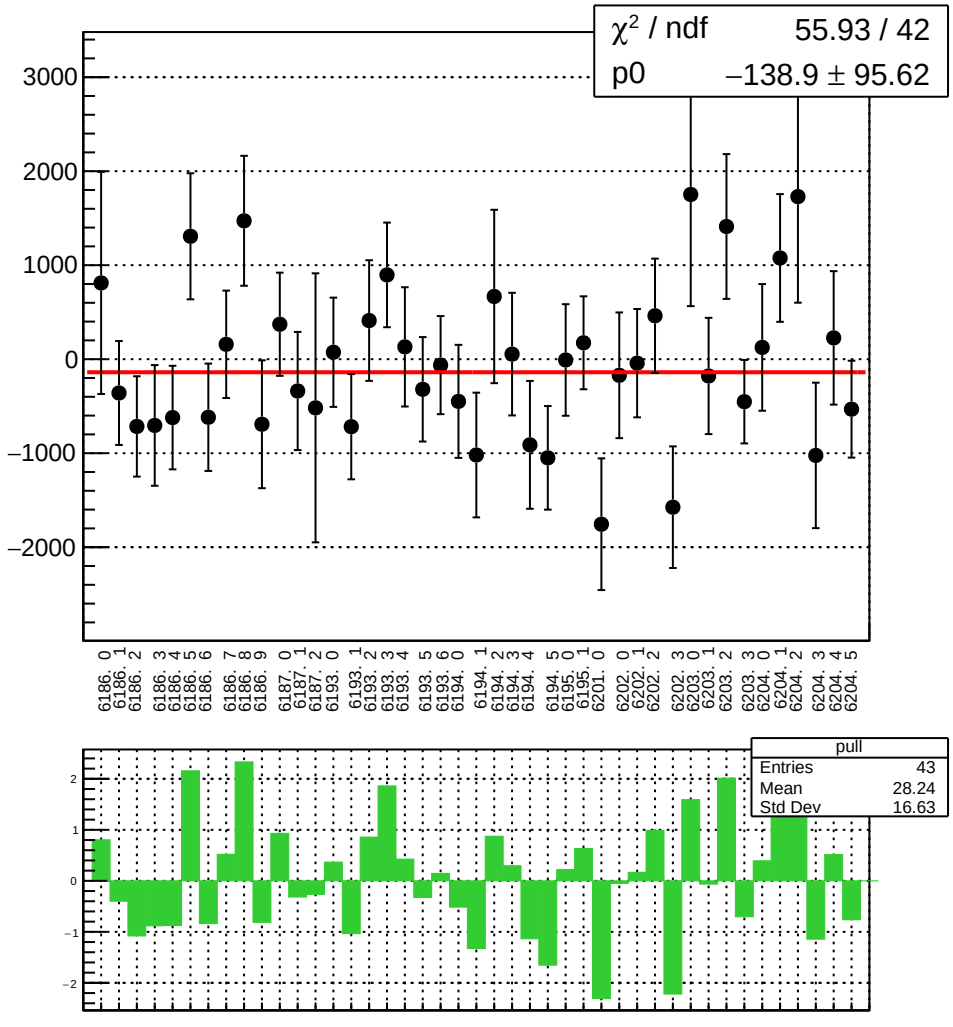

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 55.93 / 42
p0 −138.9 ± 95.62
3000
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 28.24
Std Dev 16.63
2
1
0
−1
−2

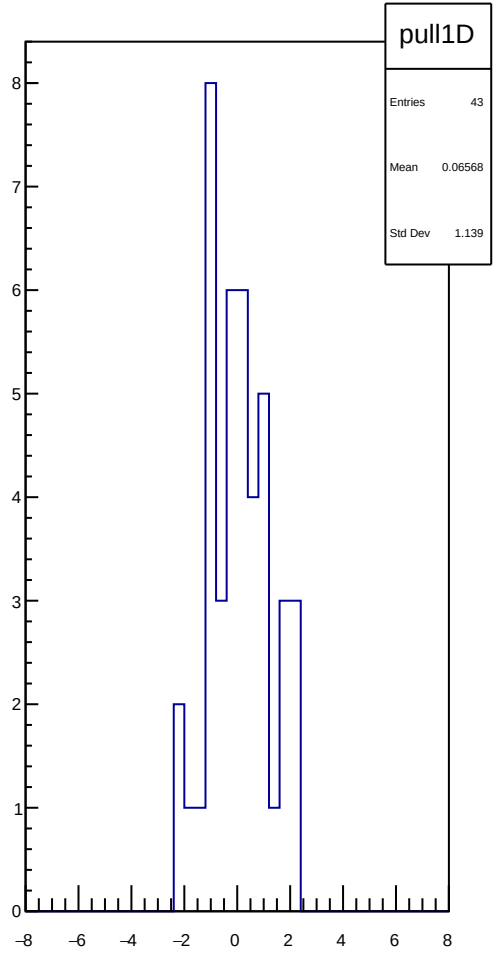

pull1D
Entries 43
Mean 0.06567
Std Dev 1.139
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_1526_avg_rms vs run
χ² / ndf 2.731e+04 / 42
p0 61.15 ± 0.06761
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 47.69 / 42
p0 −349.7 ± 1137
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −553.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.002955
Std Dev 1.053
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 5100 / 42
p0 736.7 ± 0.8038
950
900
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_sam_1526_avg_mean vs run
χ² / ndf 55.93 / 42
p0 −138.9 ± 95.62
3000
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 28.24
Std Dev 16.63
2
1
0
−1
−2


pull1D
Entries 43
Mean 0.06568
Std Dev 1.139
8
7
6
5
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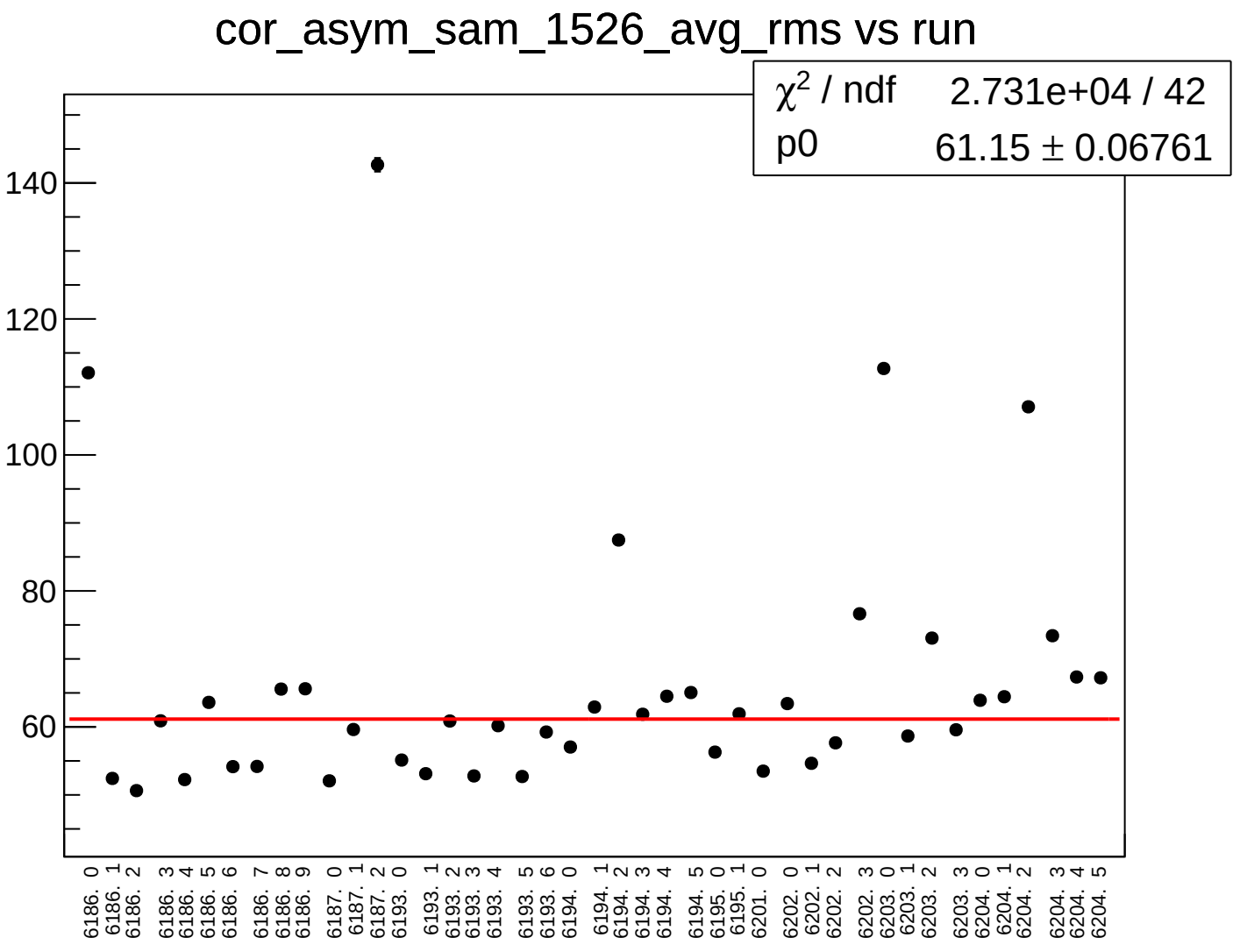
cor_asym_sam_1526_avg_rms vs run
χ² / ndf 2.731e+04 / 42
p0 61.15 ± 0.06761
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
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6201. 0
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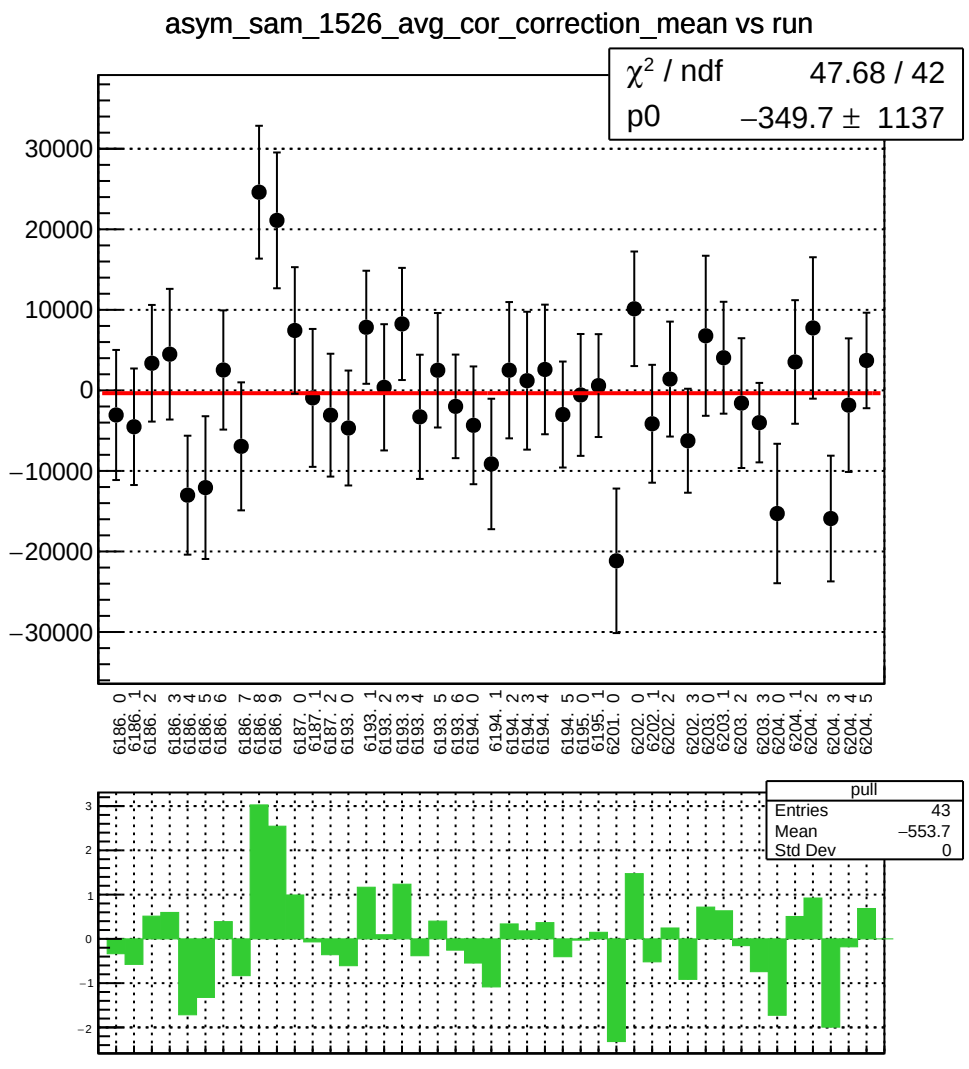
asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 47.68 / 42
p0 −349.7 ± 1137
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
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6186. 8
6186. 9
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6187. 2
6193. 0
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6193. 2
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6193. 5
6193. 6
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6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −553.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.002954
Std Dev 1.053
8
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−4
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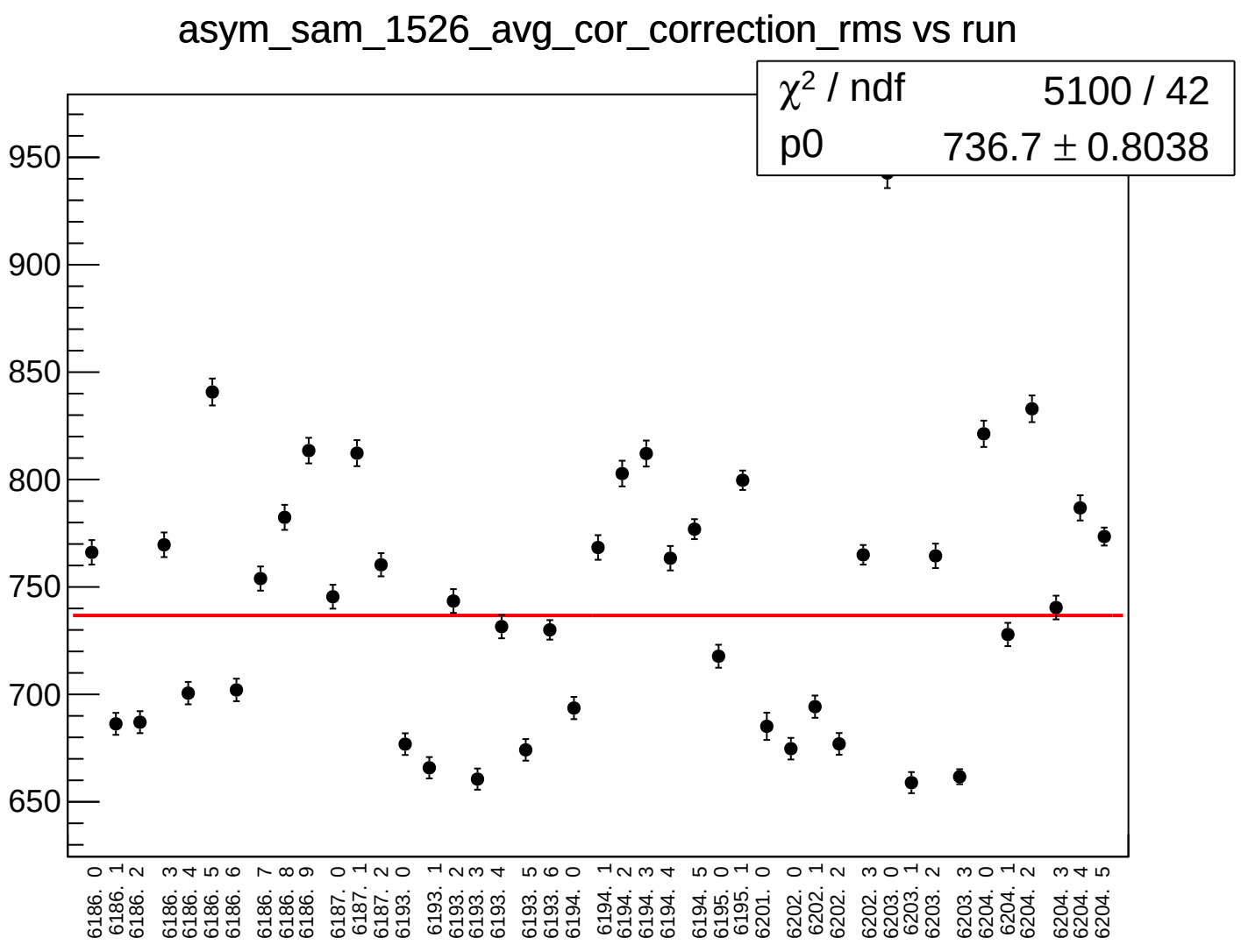
asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 5100 / 42
p0 736.7 ± 0.8038
950
900
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
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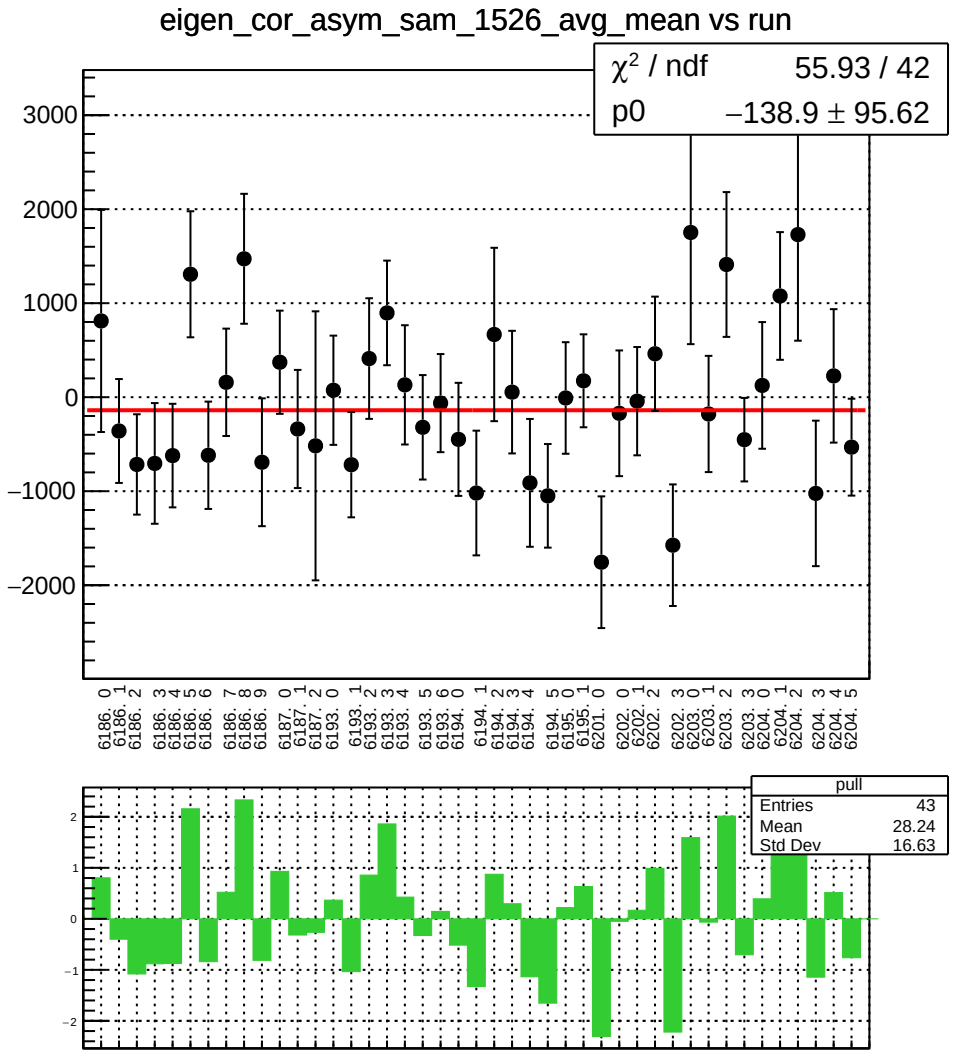
eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 55.93 / 42
p0 −138.9 ± 95.62
3000
2000
1000
0
−1000
−2000
6186. 0
6186. 1
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6186. 6
6186. 7
6186. 8
6186. 9
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6187. 2
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6193. 2
6193. 3
6193. 4
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6193. 6
6194. 0
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6203. 0
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6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 28.24
Std Dev 16.63
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.06568
Std Dev 1.139
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7
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5
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−4
−2
0
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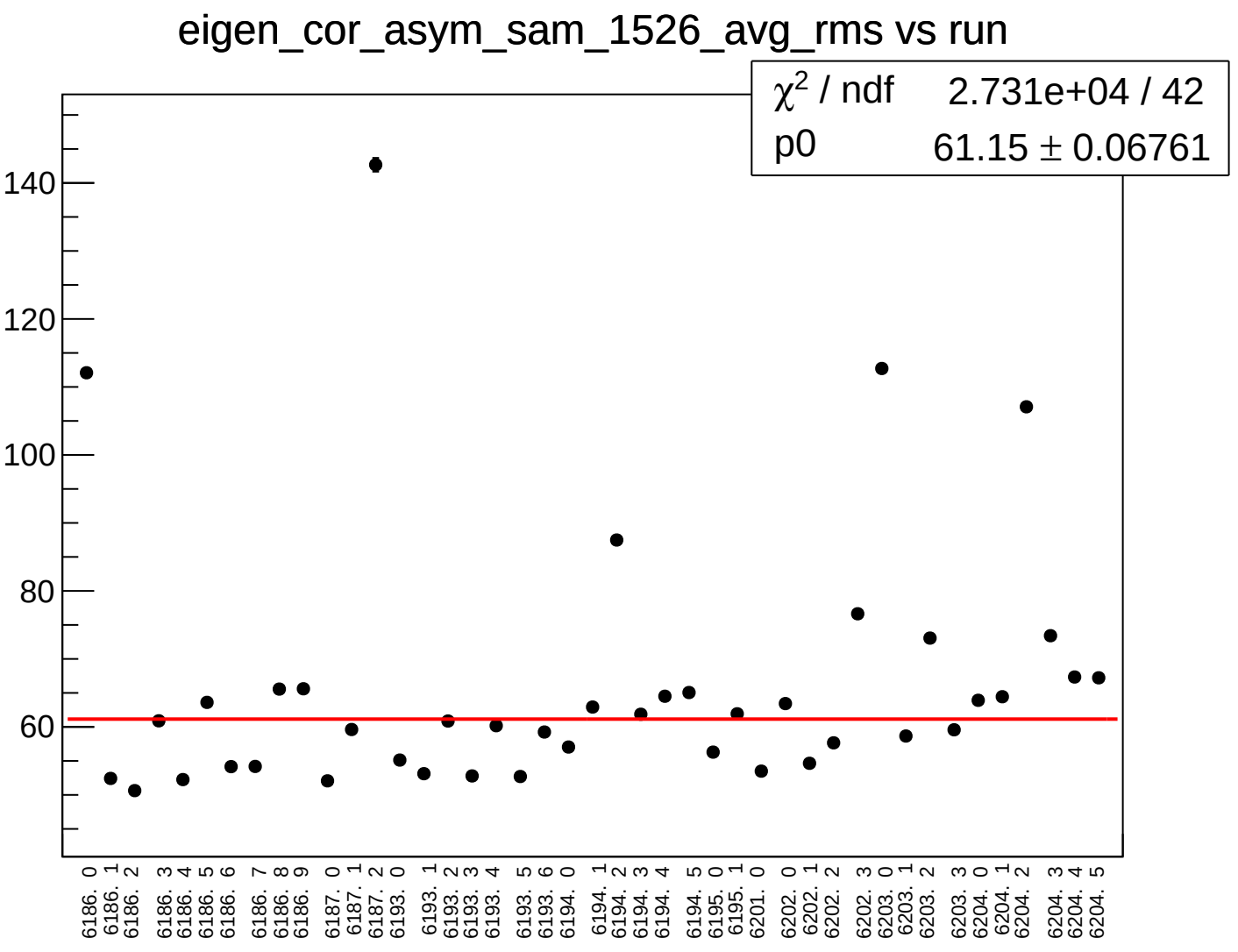
8


eigen_cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.731e+04 / 42
p0 61.15 ± 0.06761
140
120
100
80
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6186. 0
6186. 1
6186. 2
6186. 3
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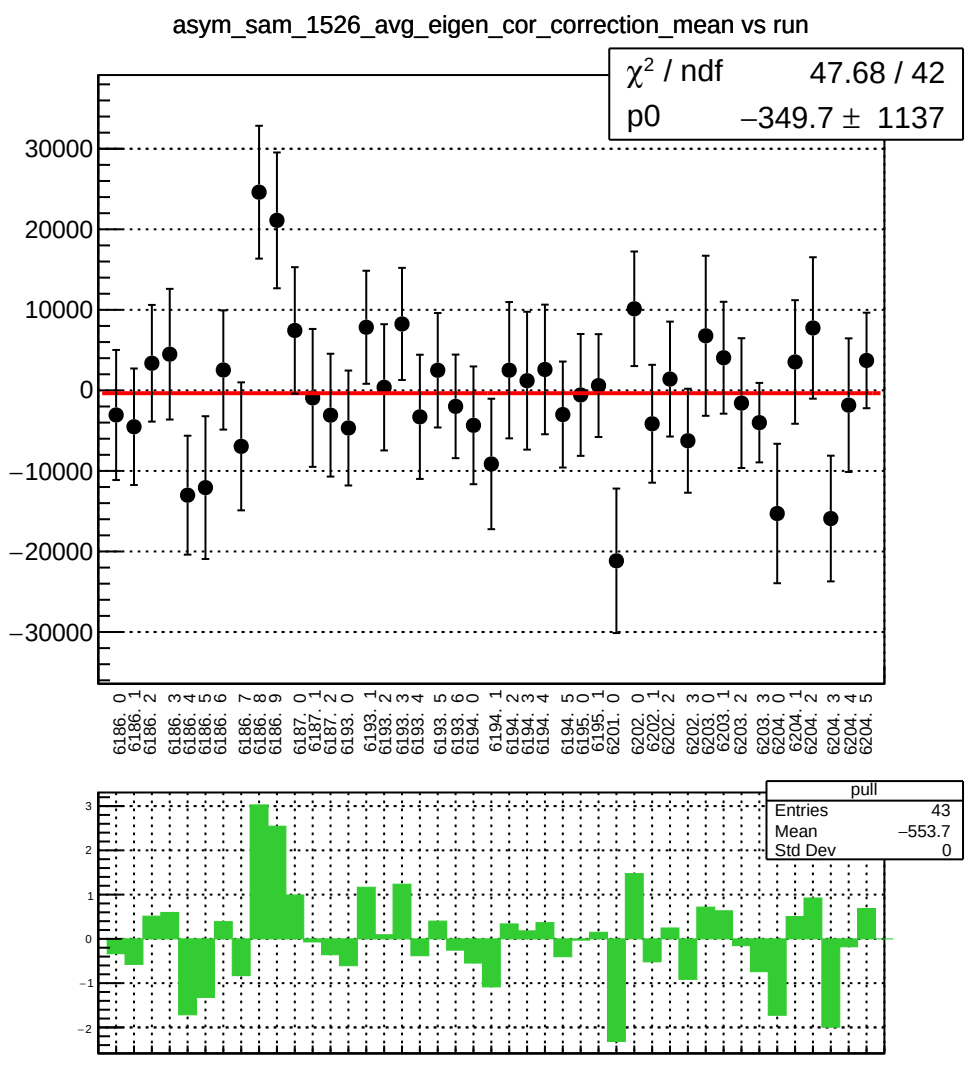
6204. 5


asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 47.68 / 42
p0 −349.7 ± 1137
30000
20000
10000
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−10000
−20000
−30000
6186. 0
6186. 1
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6194. 0
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6203. 1
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6203. 3
6204. 0
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6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −553.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.002954
Std Dev 1.053
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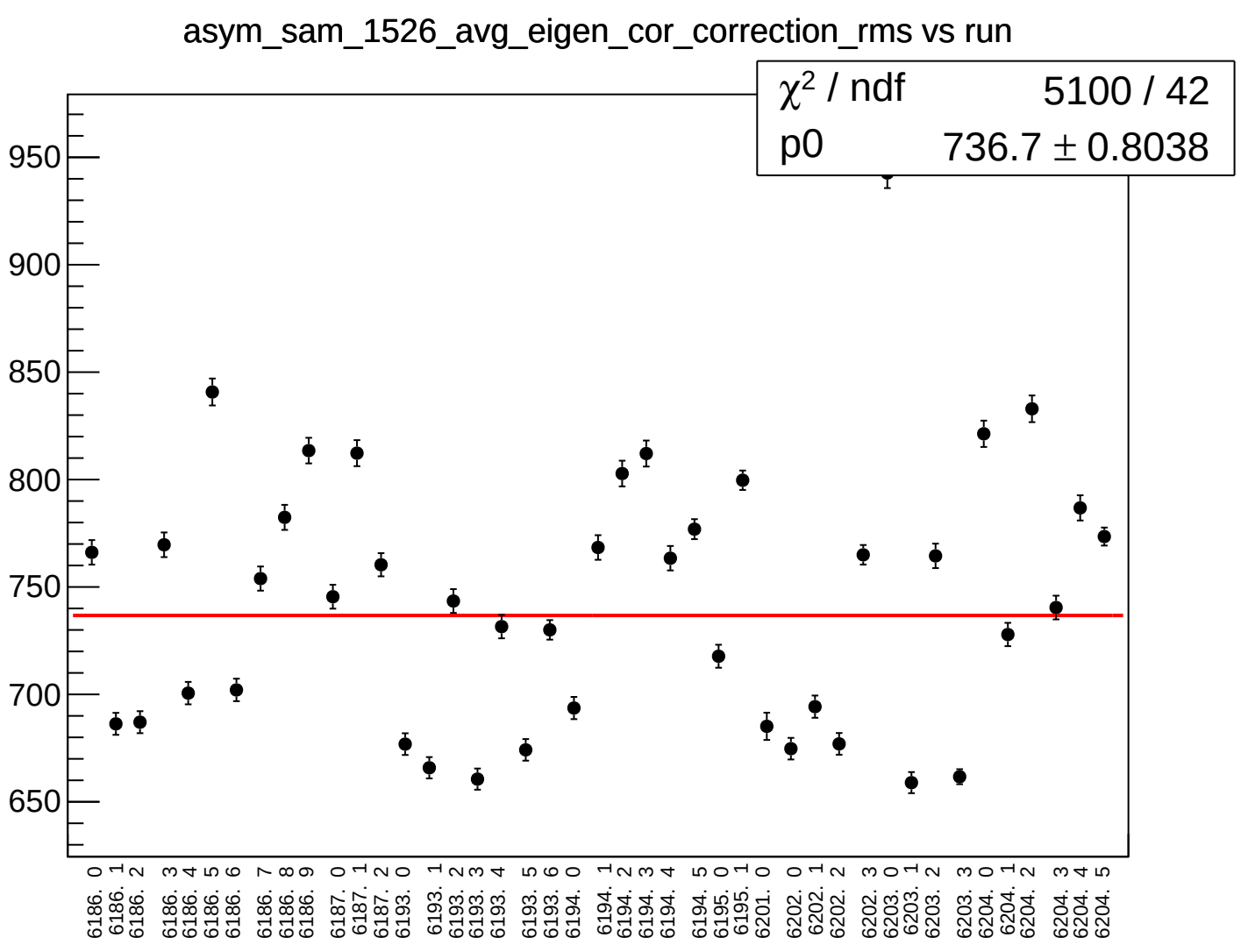
asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 5100 / 42
p0 736.7 ± 0.8038
950
900
850
800
750
700
650
6186. 0
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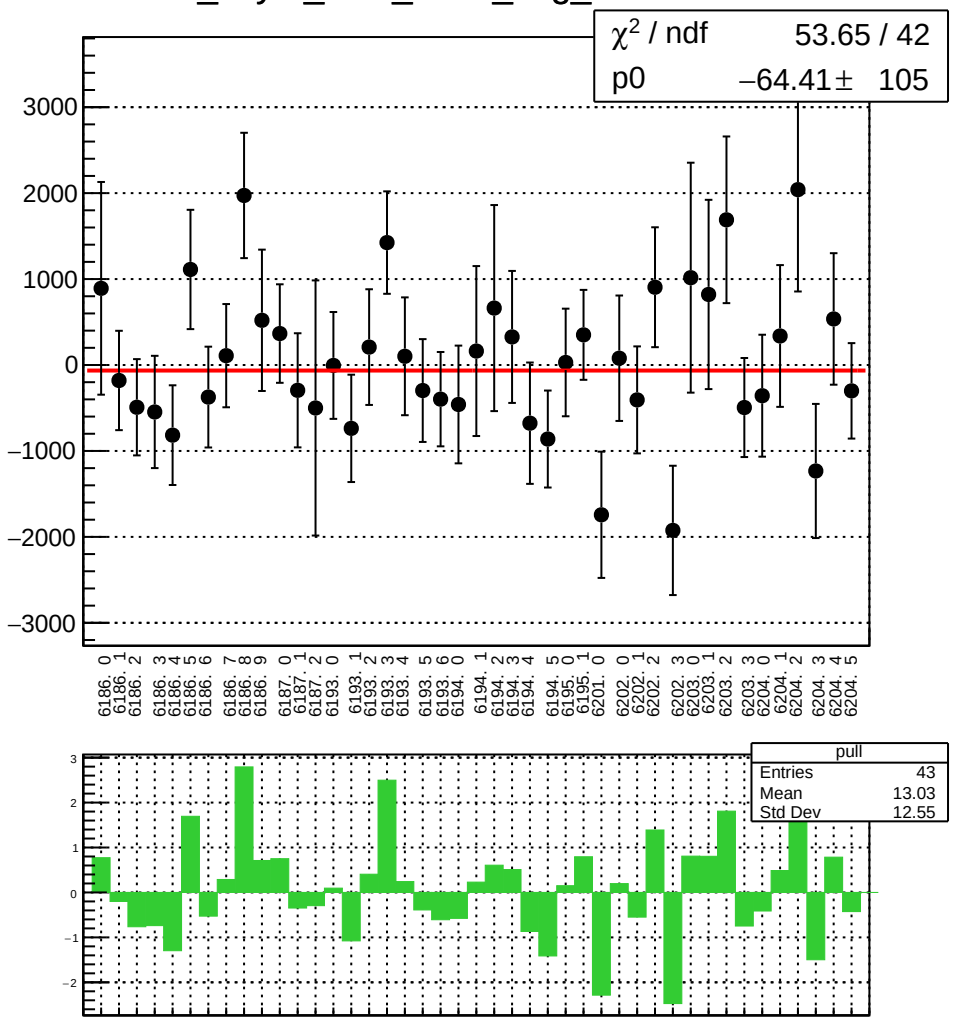
6204. 5


dit_asym_sam_1526_avg_mean vs run
χ² / ndf 53.65 / 42
p0 −64.41 ± 105
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 7
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6187. 2
6193. 0
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6193. 3
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6193. 6
6194. 0
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6194. 2
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6194. 5
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6202. 0
6202. 1
6202. 2
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6203. 2
6203. 3
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6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 13.03
Std Dev 12.55
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.07243
Std Dev 1.115
9
8
7
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5
4
3
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1
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−4
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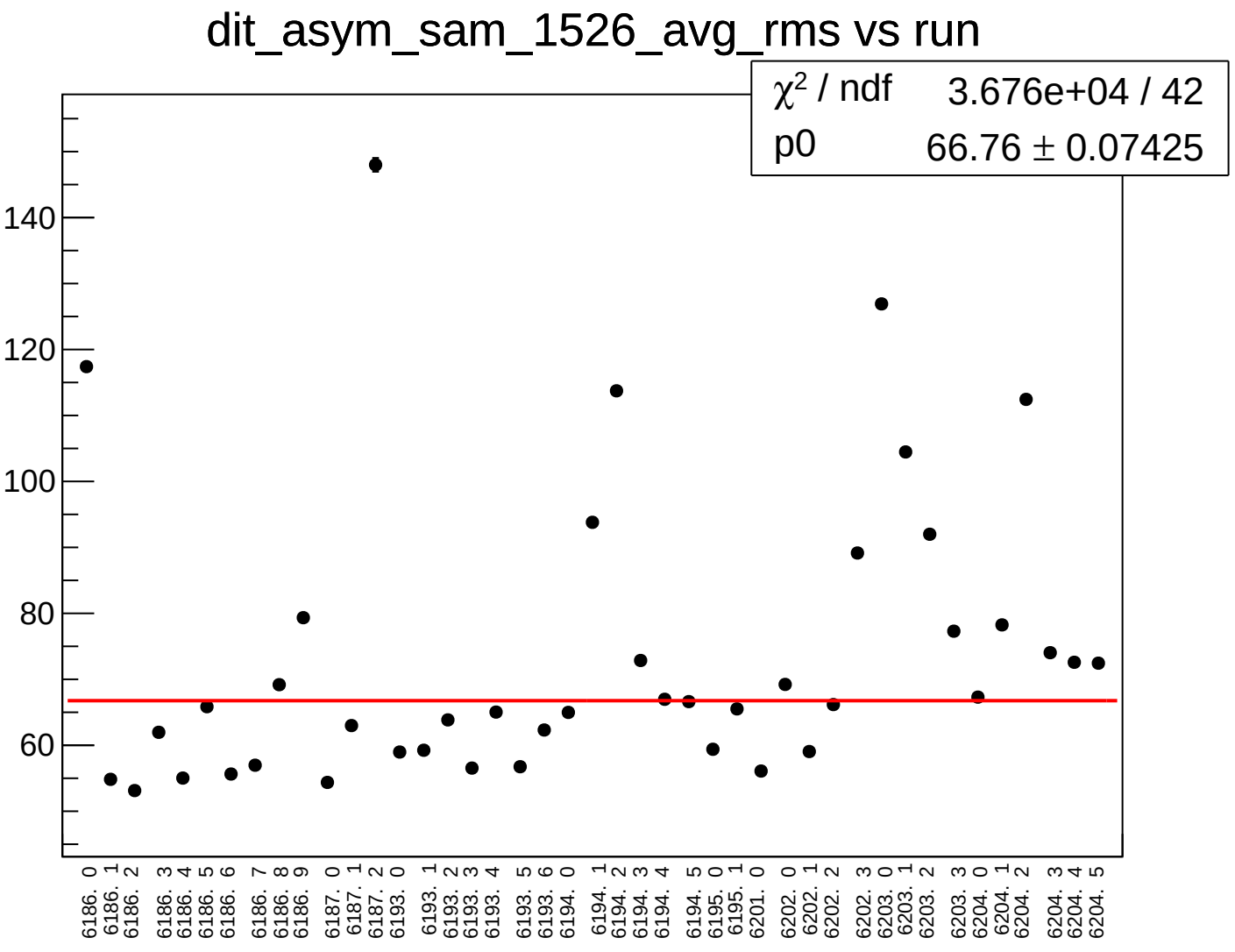
dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.676e+04 / 42
p0 66.76 ± 0.07425
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120
100
80
60
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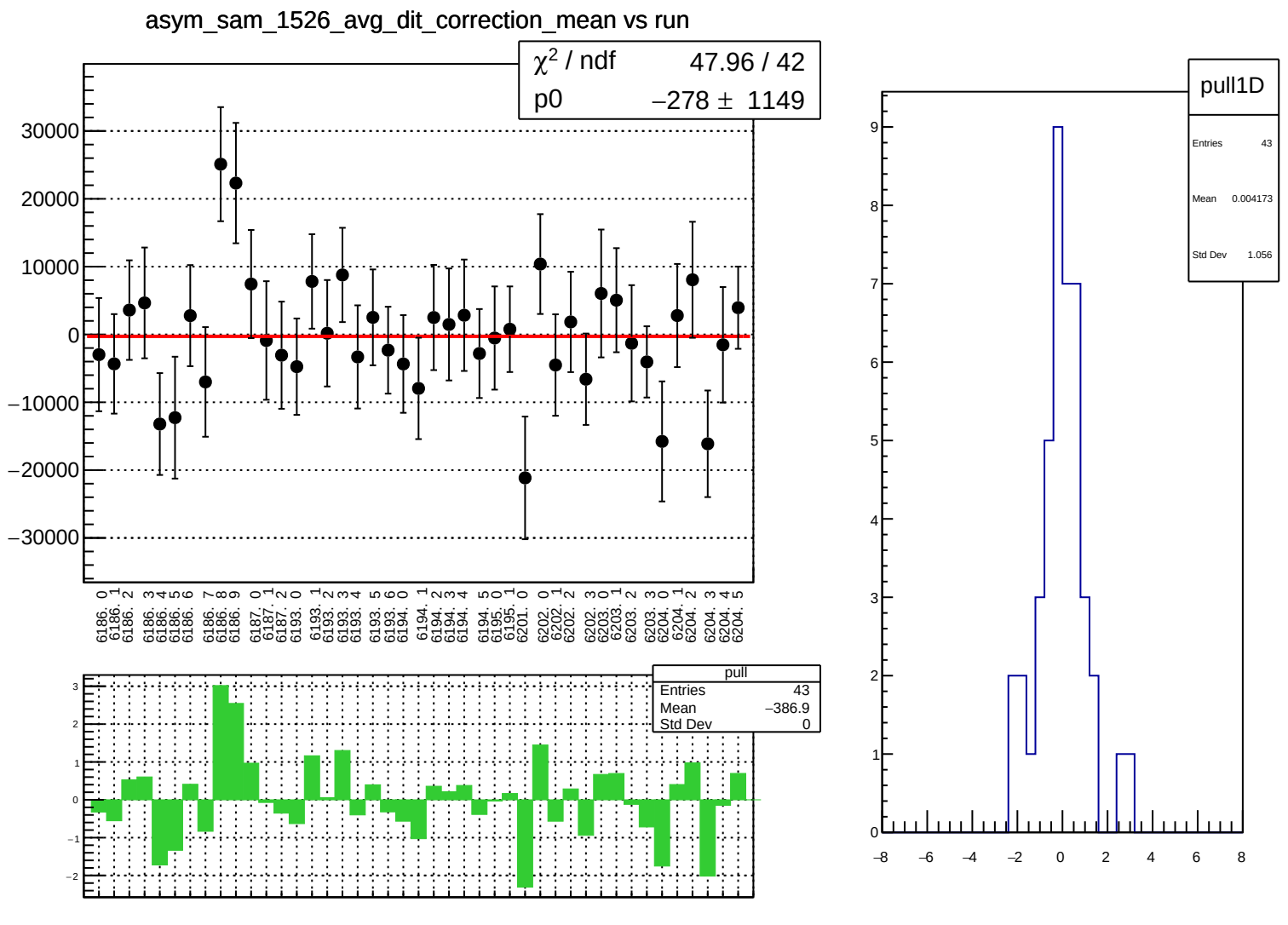
6204. 5


asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 47.96 / 42
p0 −278 ± 1149
30000
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−10000
−20000
−30000
6186. 0
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6202. 0
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6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −386.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.004173
Std Dev 1.056
9
8
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5
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1
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−4
−2
0
2
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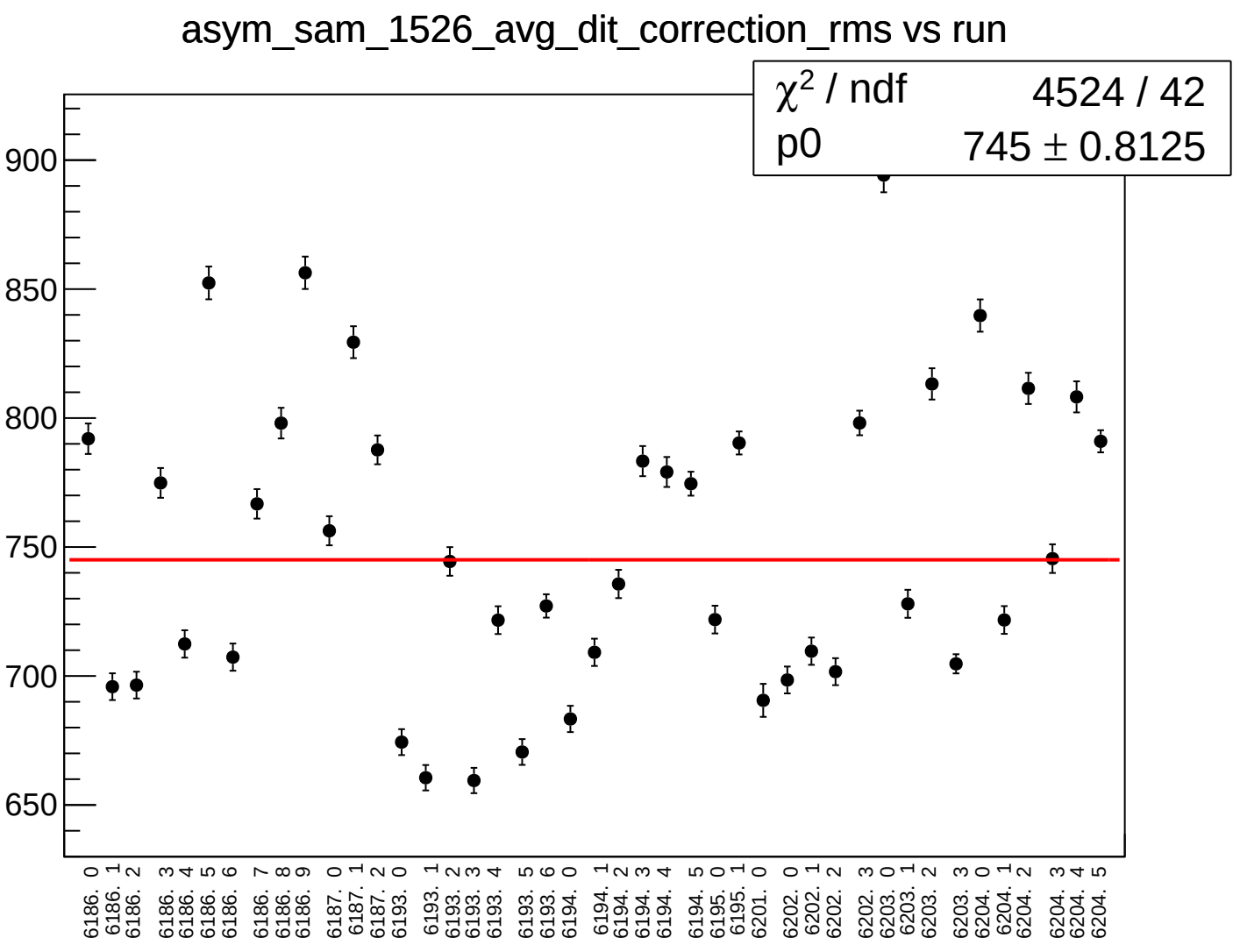
asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 4524 / 42
p0 745 ± 0.8125
900
850
800
750
700
650
6186. 0
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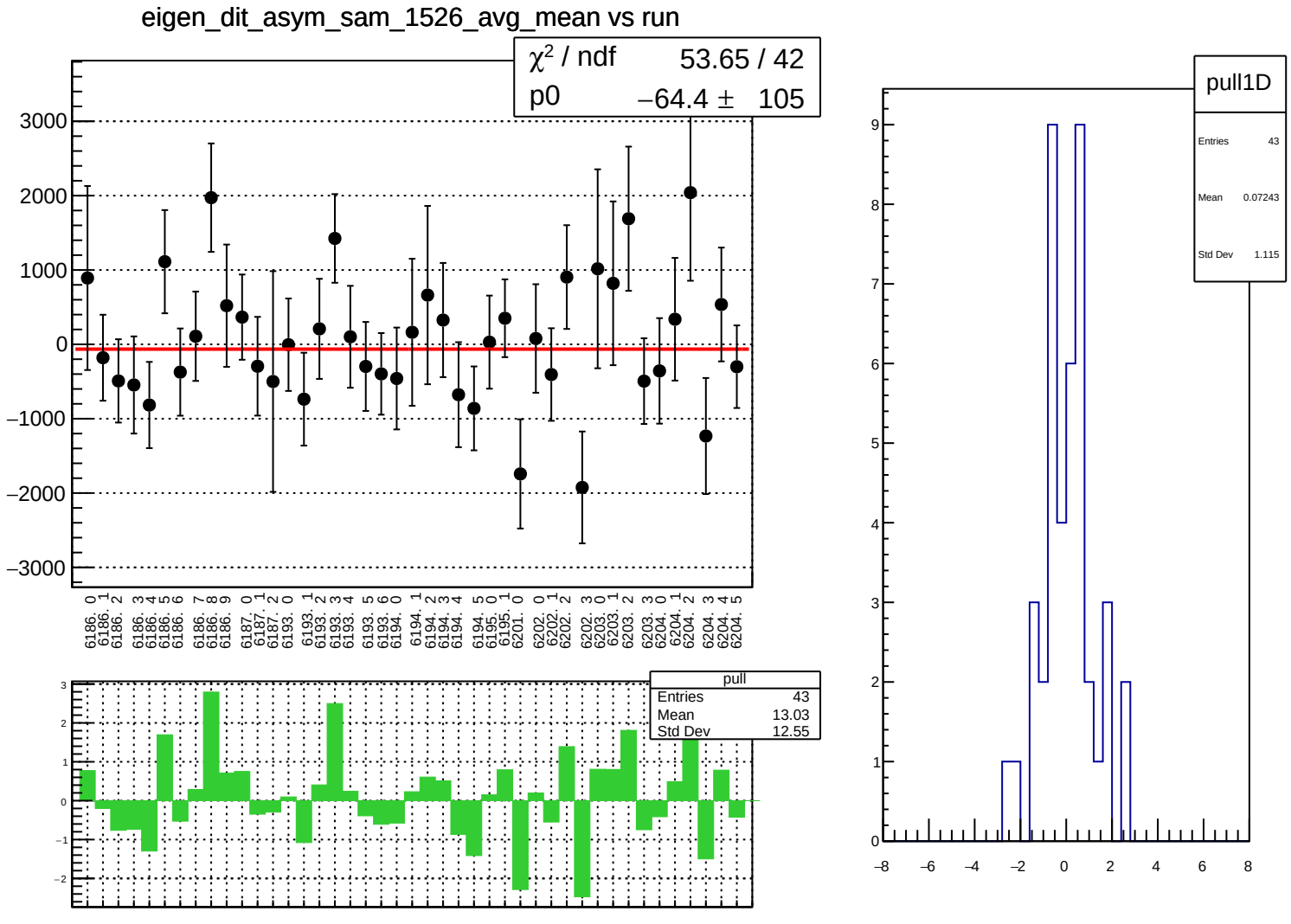
6204. 5


eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 53.65 / 42
p0 −64.4 ± 105
3000
2000
1000
0
−1000
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−3000
6186. 0
6186. 1
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6187. 2
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6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
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6202. 0
6202. 1
6202. 2
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6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 13.03
Std Dev 12.55
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.07243
Std Dev 1.115
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−4
−2
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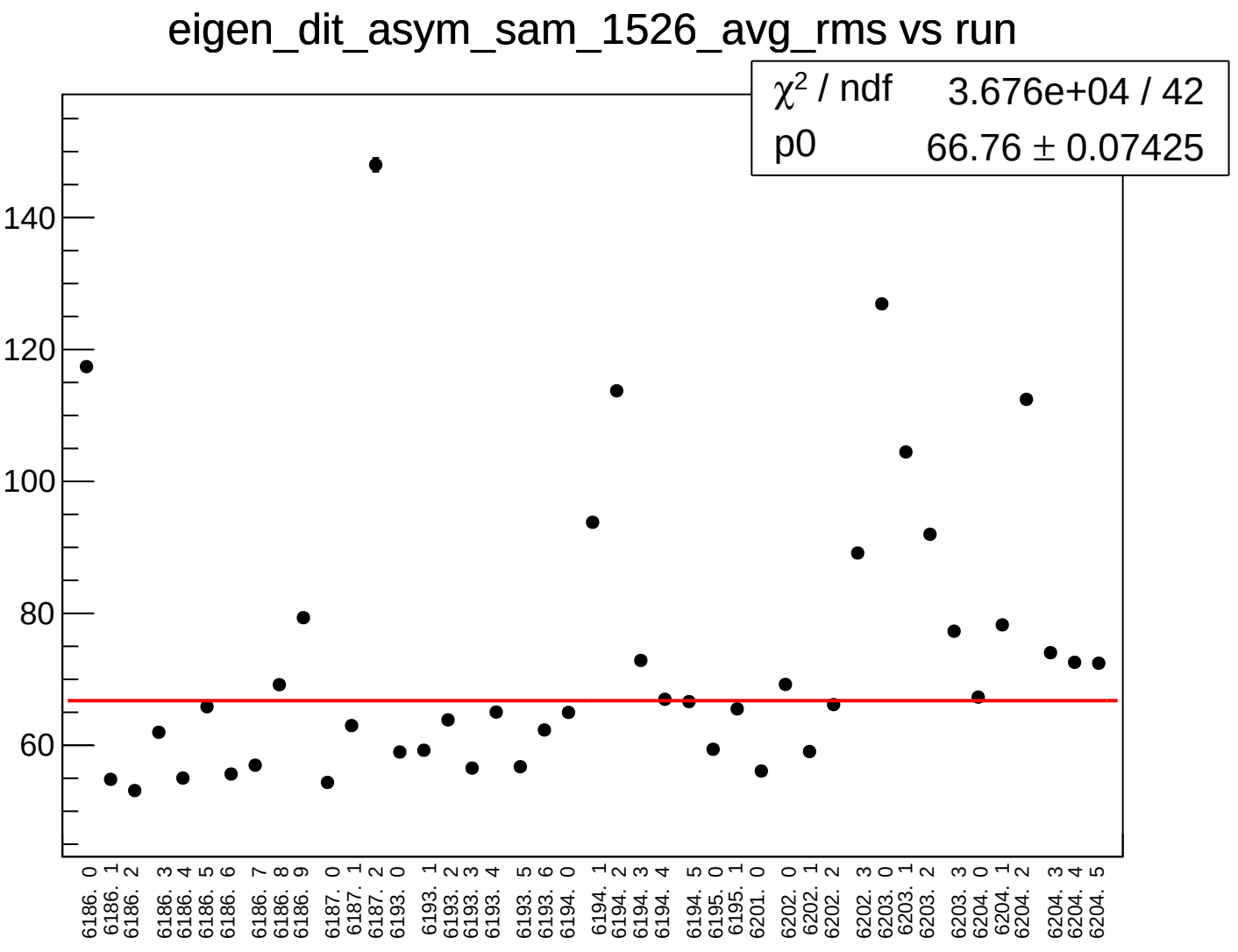
eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.676e+04 / 42
p0 66.76 ± 0.07425
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
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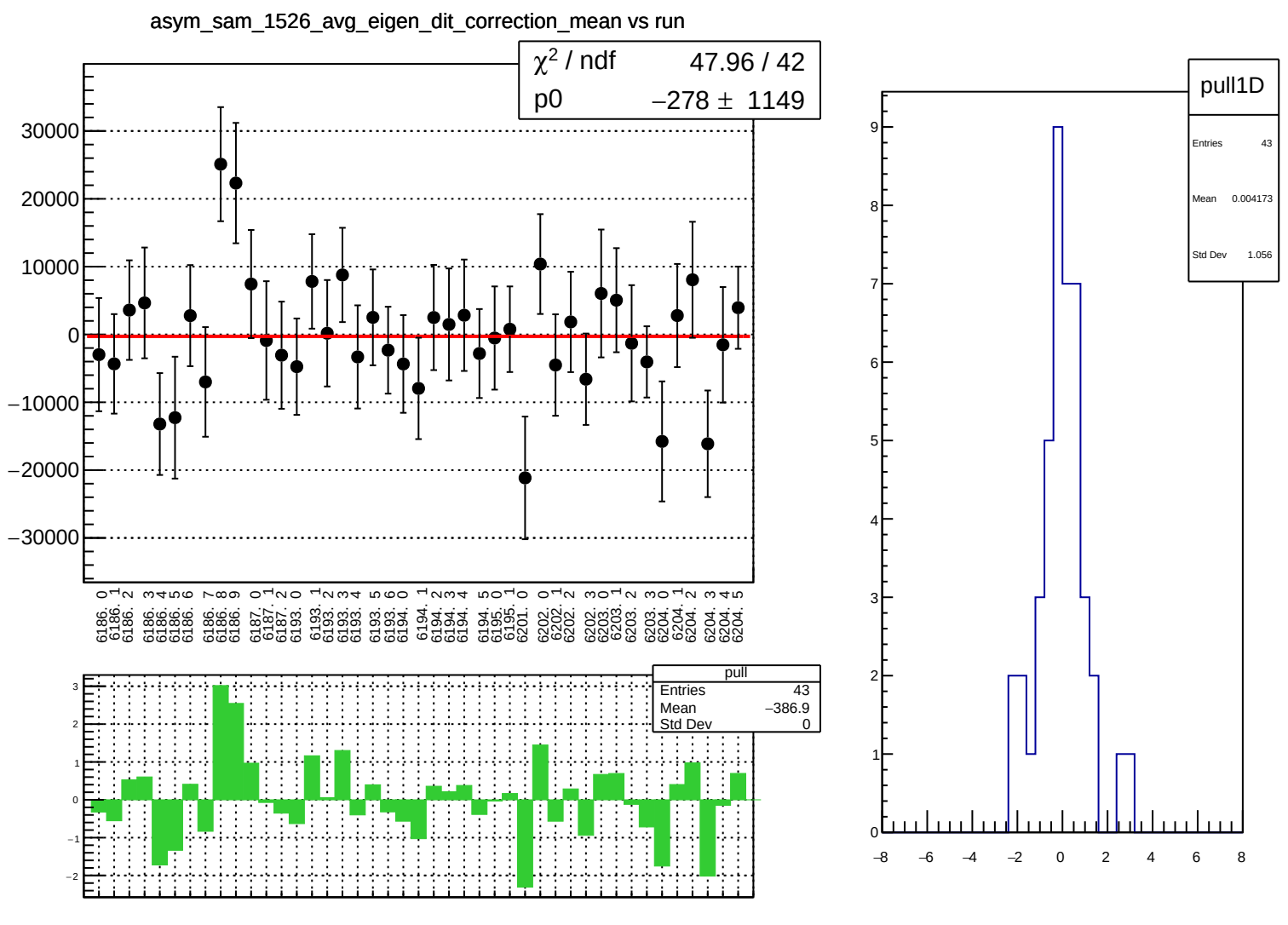
6204. 5


asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 47.96 / 42
p0 −278 ± 1149
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
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6194. 5
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6204. 3
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6204. 5
pull
Entries 43
Mean −386.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.004173
Std Dev 1.056
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−4
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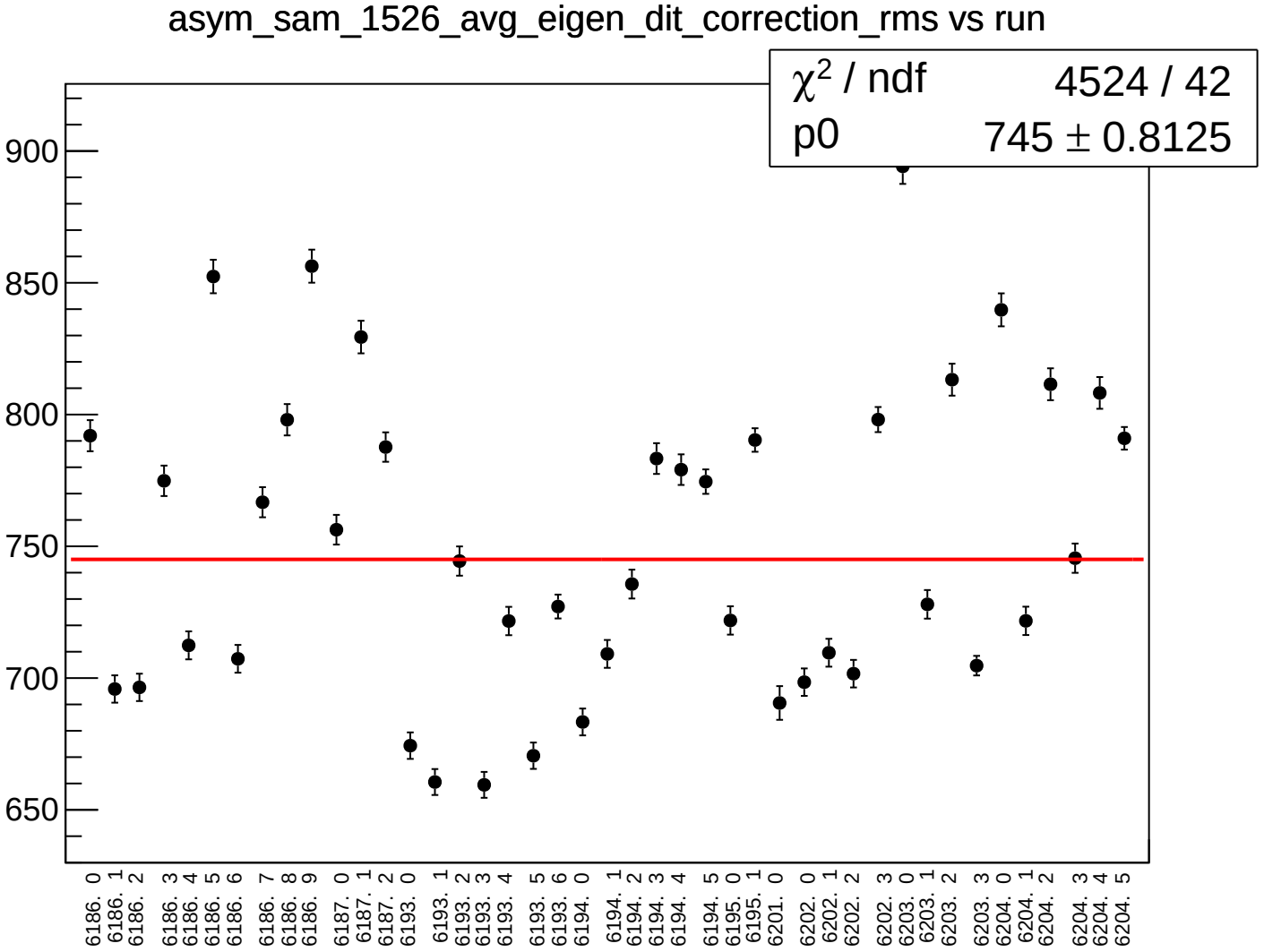
asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 4524 / 42
p0 745 ± 0.8125
900
850
800
750
700
650
6186. 0
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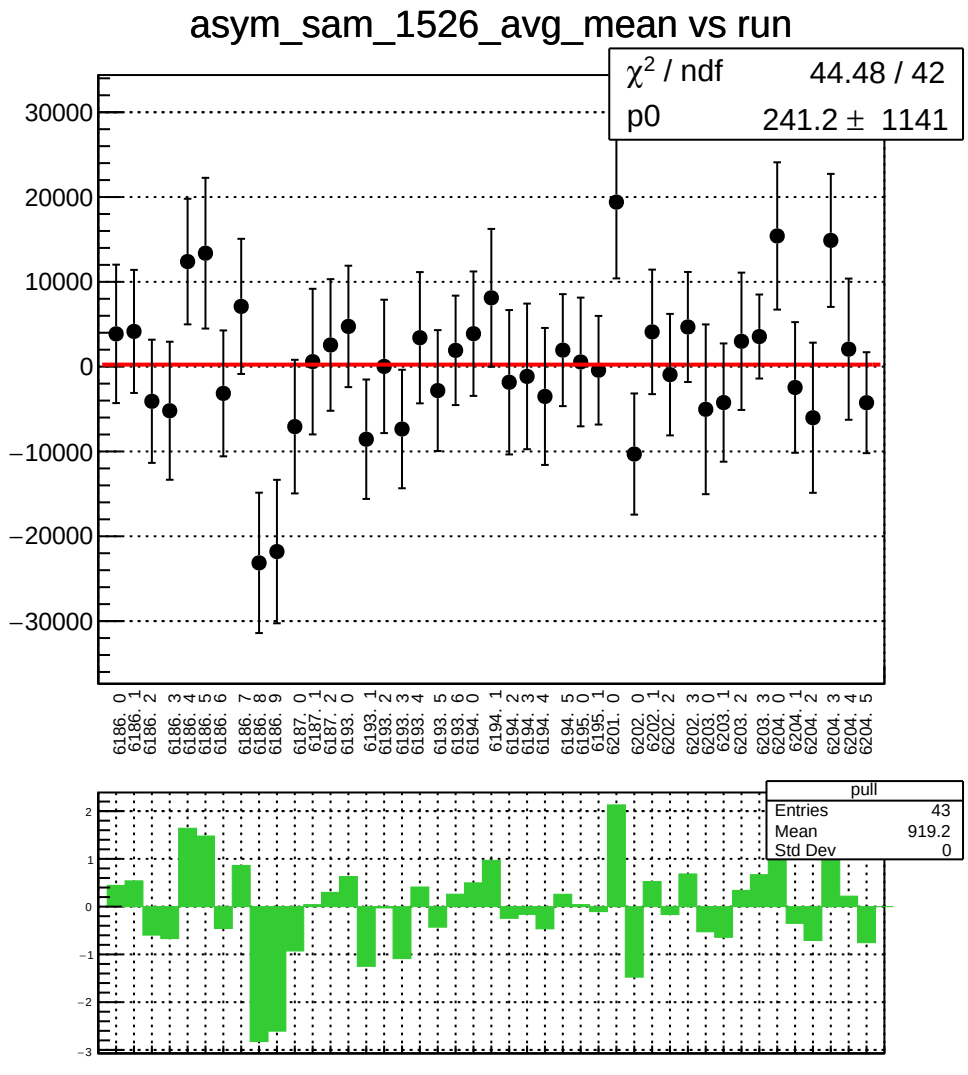
6204. 5


asym_sam_1526_avg_mean vs run
χ² / ndf 44.48 / 42
p0 241.2 ± 1141
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−20000
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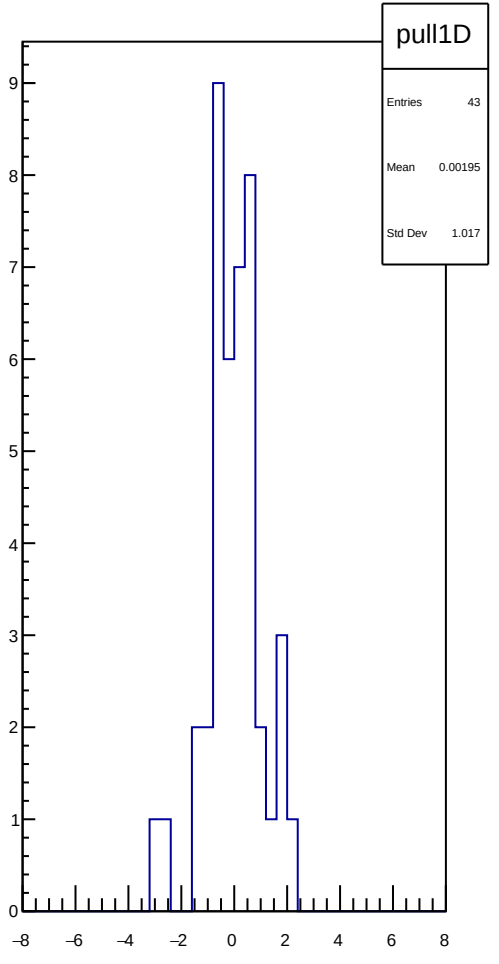
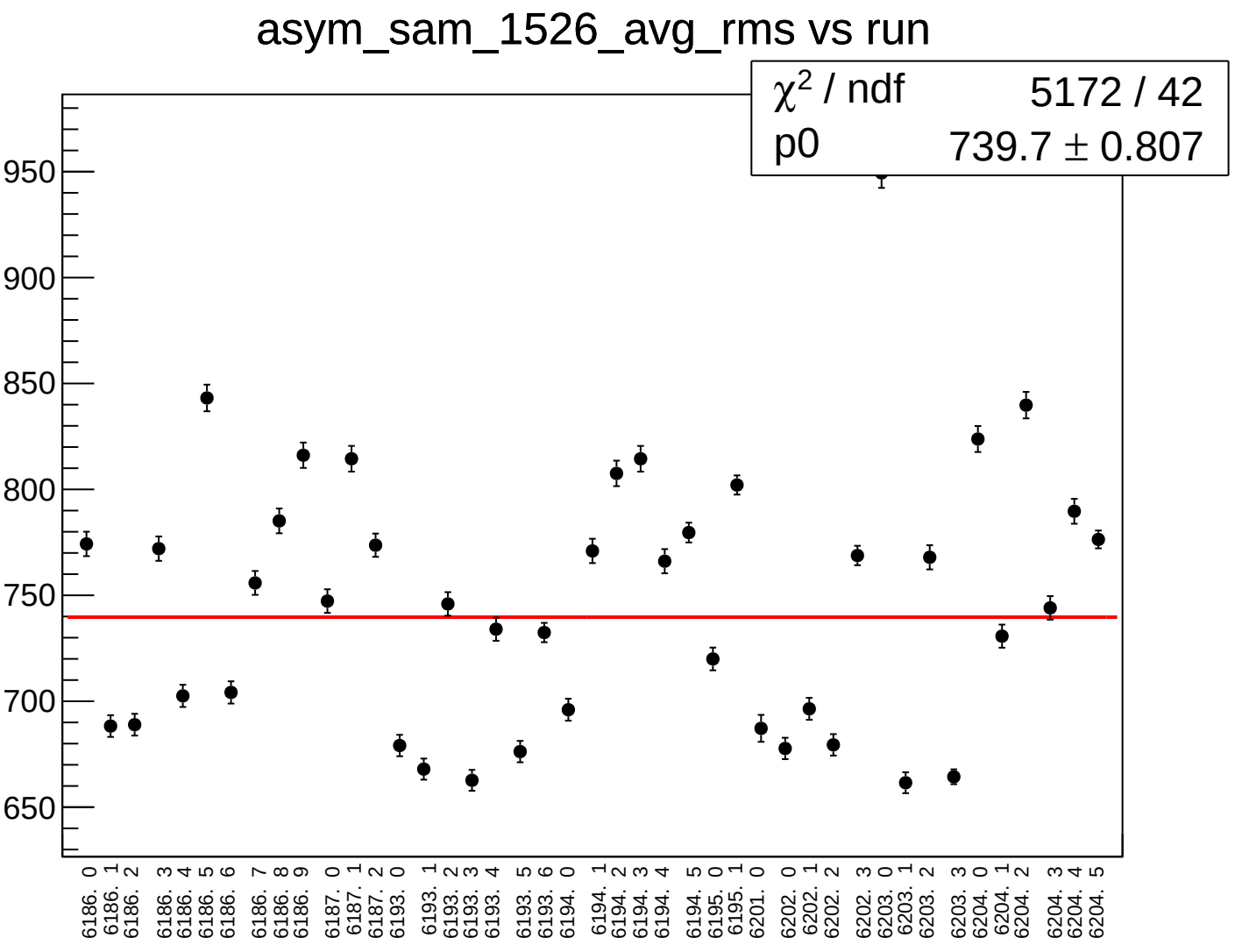
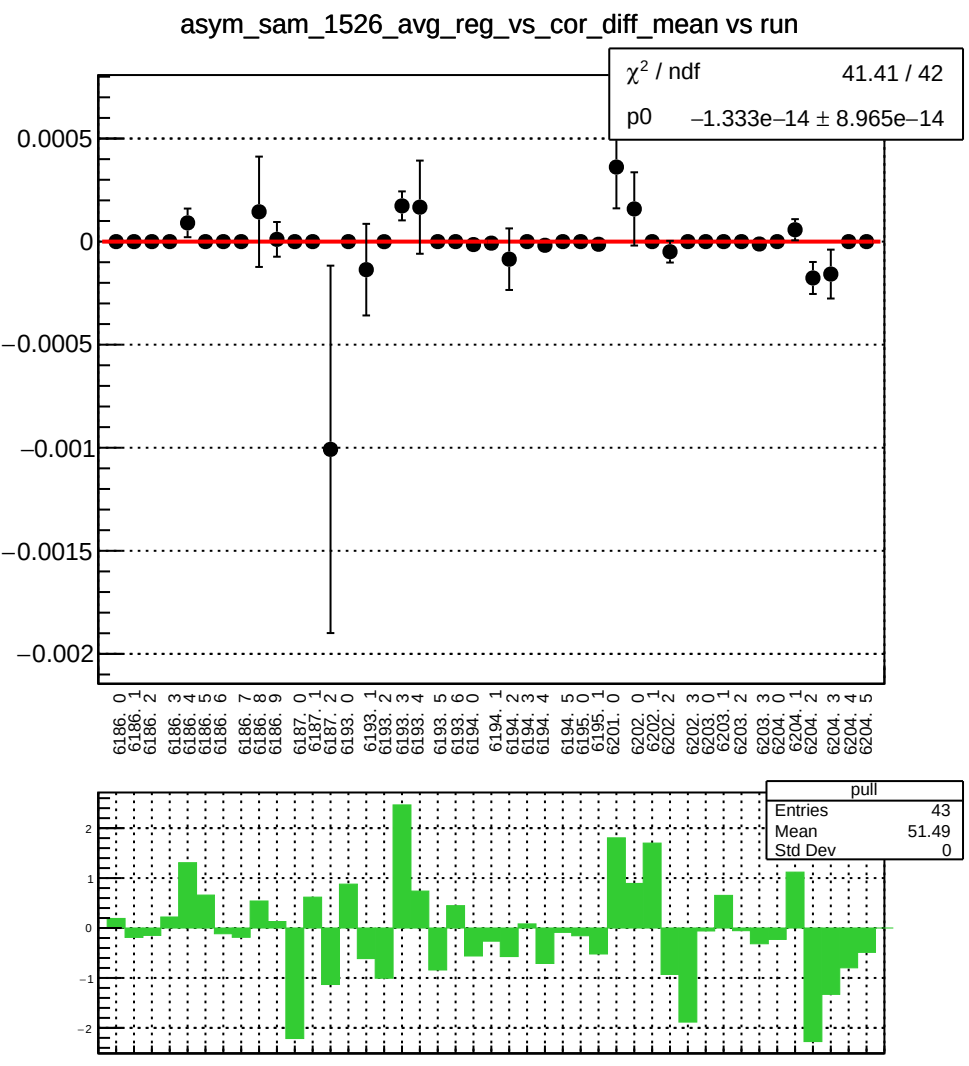
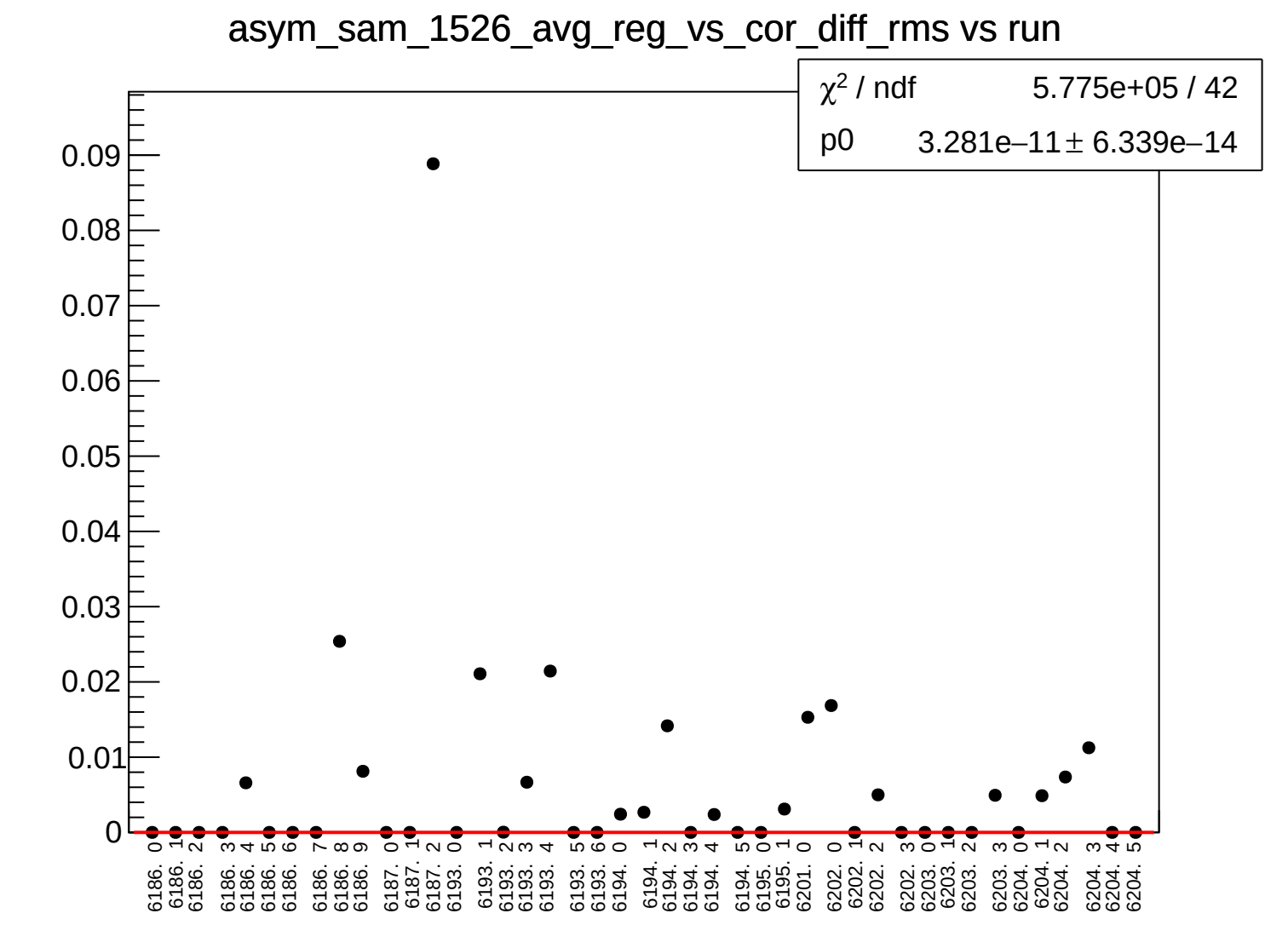
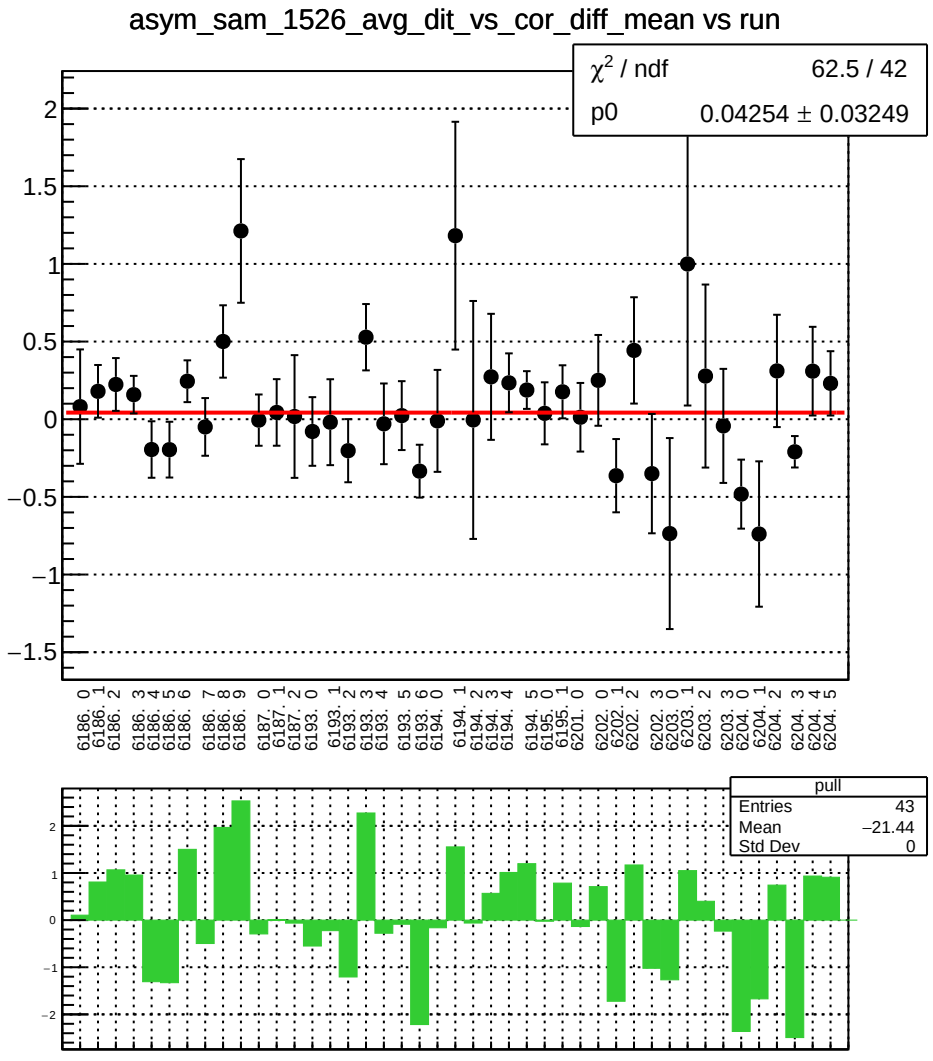
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 919.2
Std Dev 0
2
1
0
−1
−2
−3

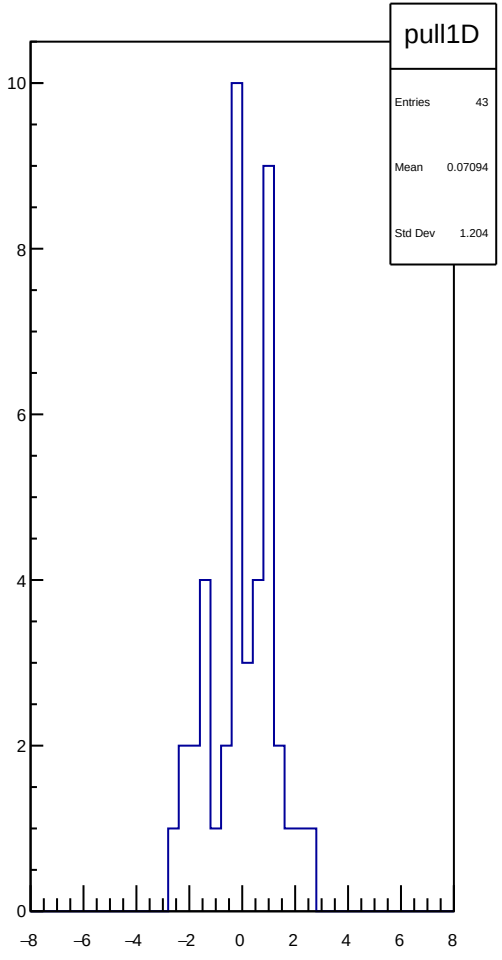

pull1D
Entries 43
Mean 0.00195
Std Dev 1.017
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

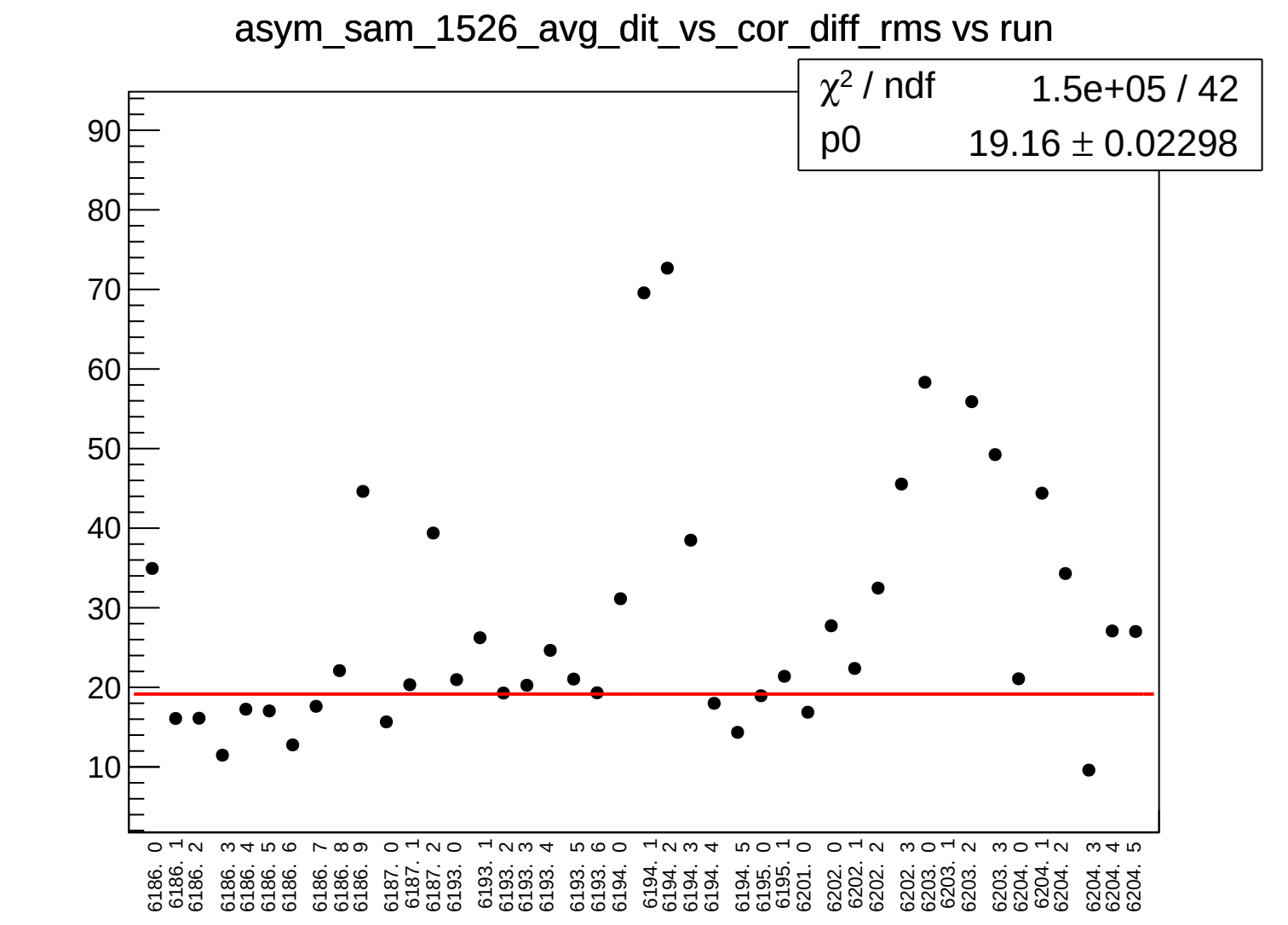

asym_sam_1526_avg_rms vs run
χ² / ndf 5172 / 42
p0 739.7 ± 0.807
950
900
850
800
750
700
650
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

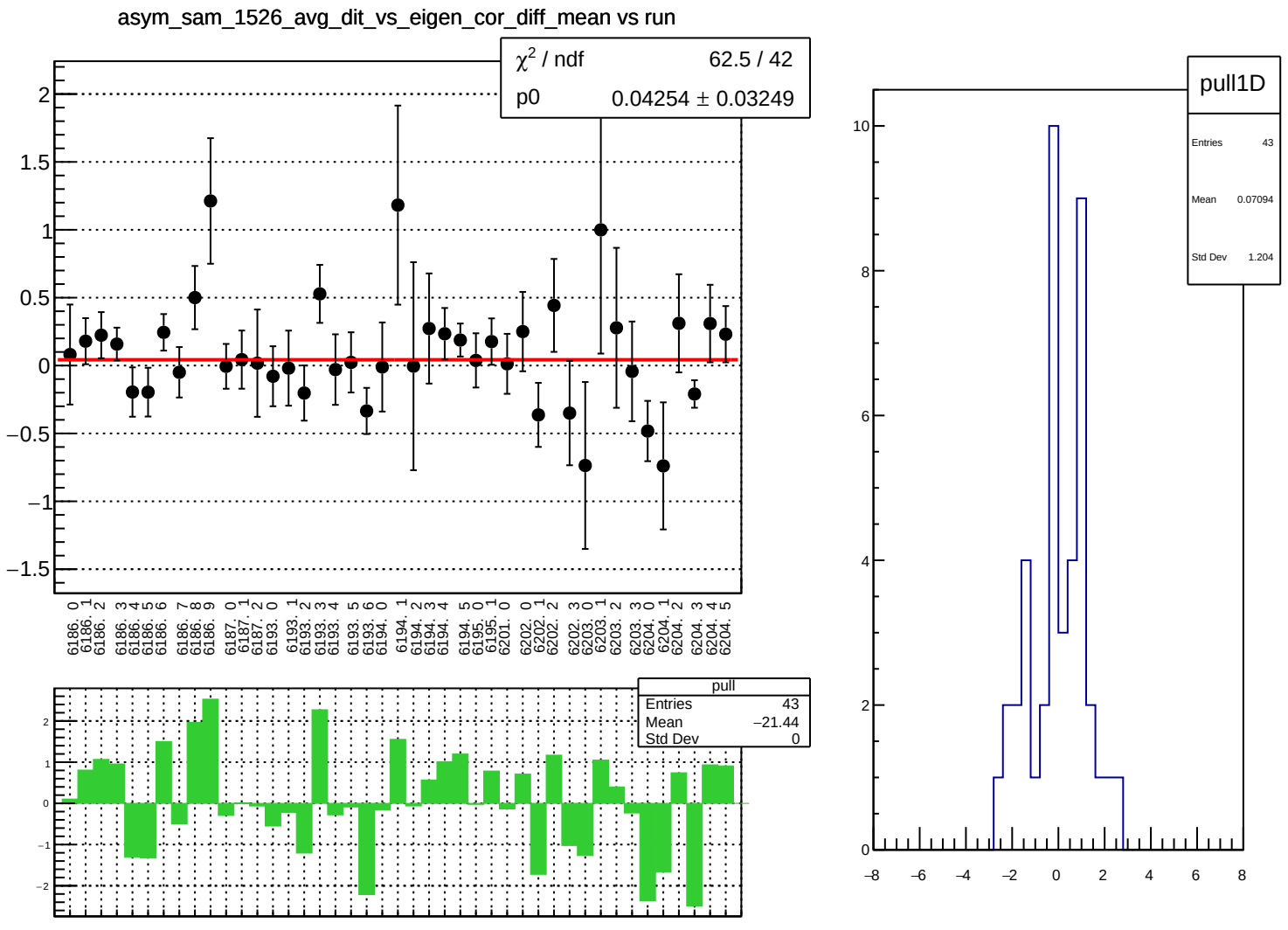

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 41.41 / 42
p0 −1.333e−14 ± 8.965e−14
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 51.49
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0747
Std Dev 0.9785
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

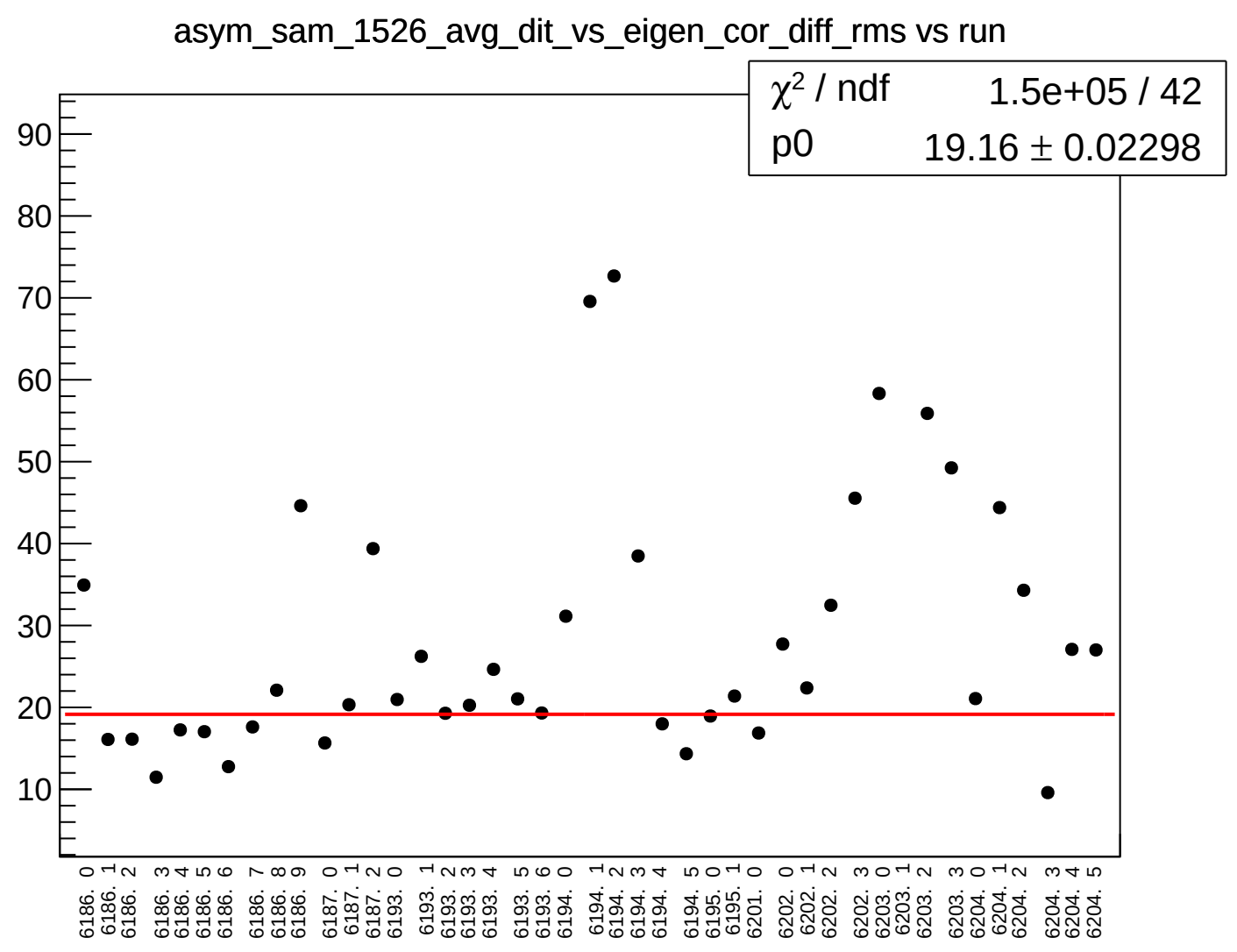

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.775e+05 / 42
p0 3.281e−11 ± 6.339e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

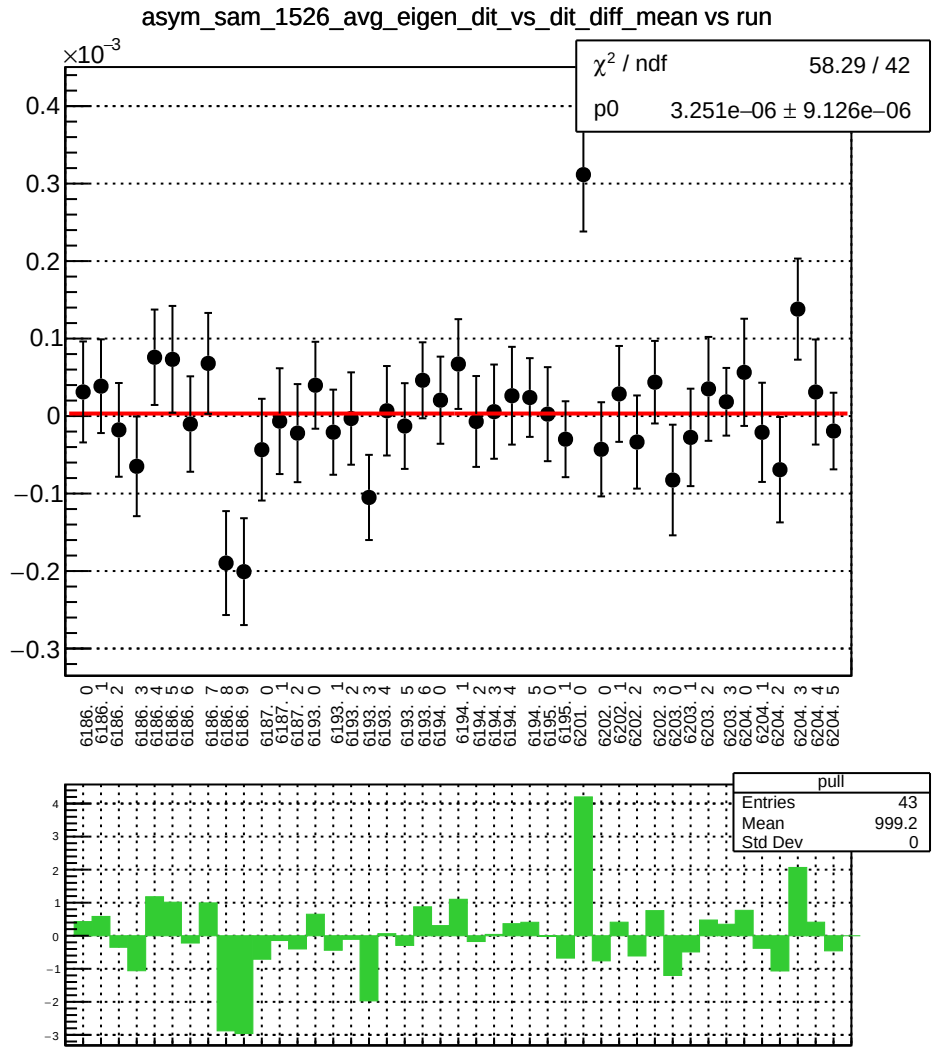

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 62.5 / 42
p0 0.04254 ± 0.03249
pull
Entries 43
Mean −21.44
Std Dev 0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

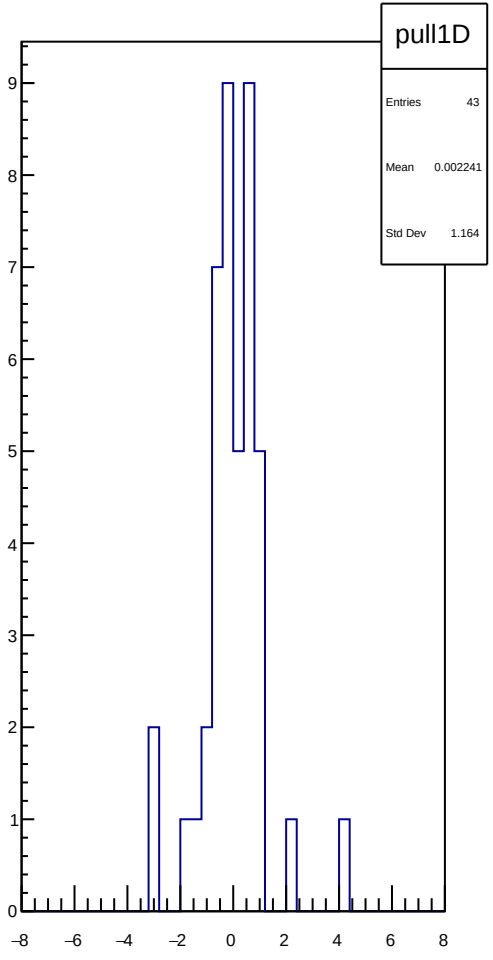

pull1D
Entries 43
Mean 0.07094
Std Dev 1.204

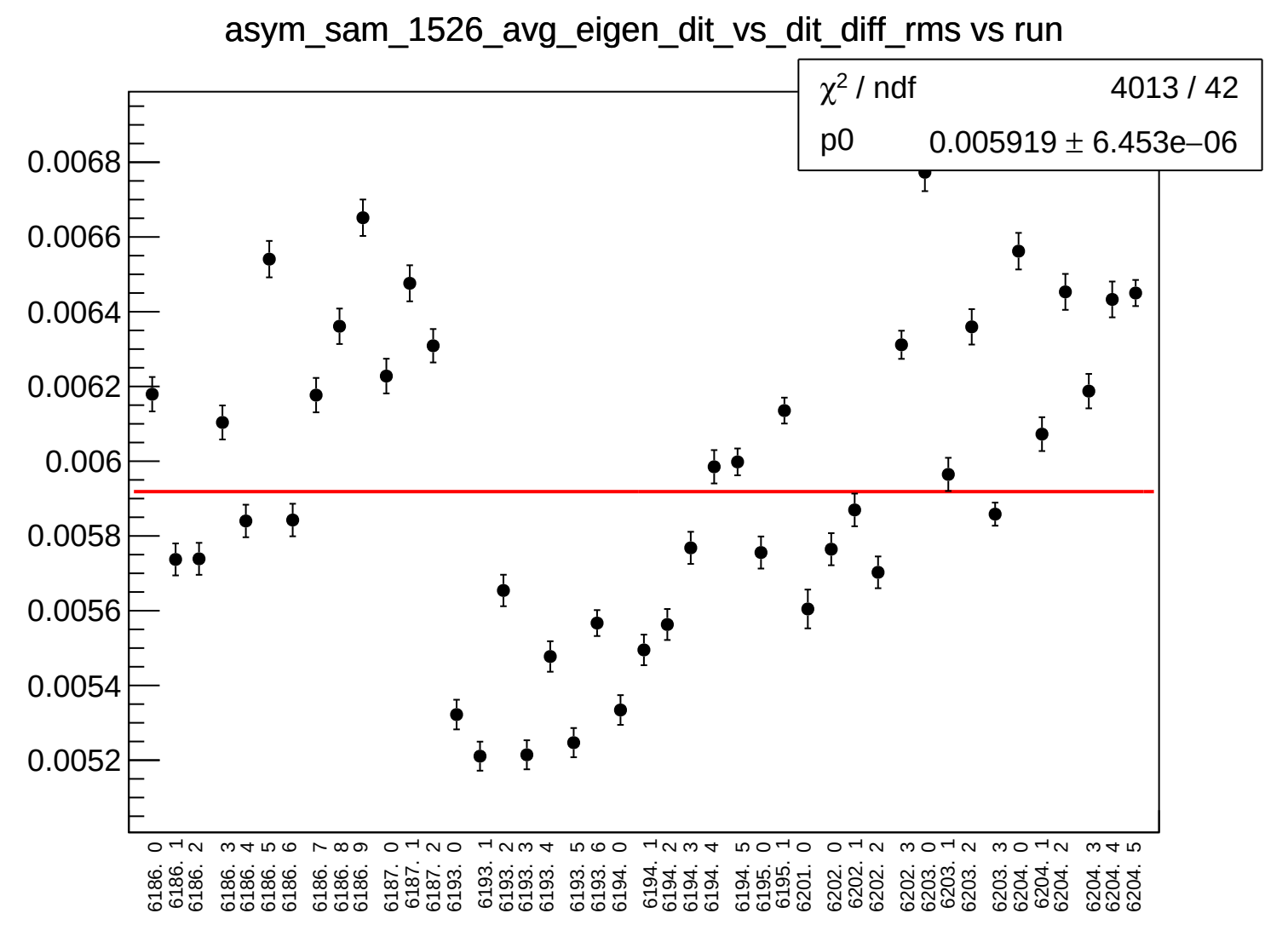

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.5e+05 / 42
p0 19.16 ± 0.02298
90
80
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

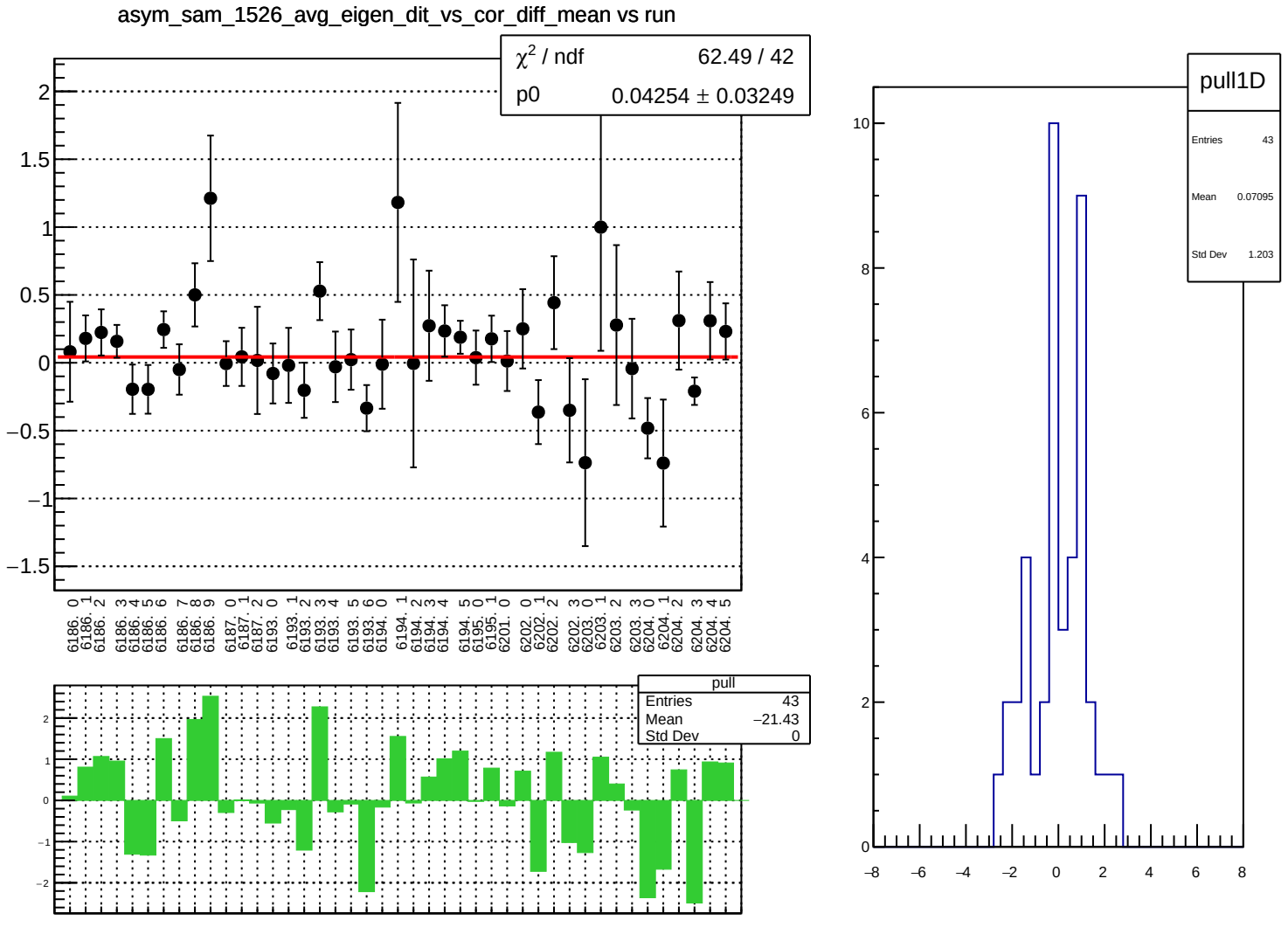

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 62.5 / 42
p0 0.04254 ± 0.03249
pull
Entries 43
Mean −21.44
Std Dev 0
pull1D
Entries 43
Mean 0.07094
Std Dev 1.204

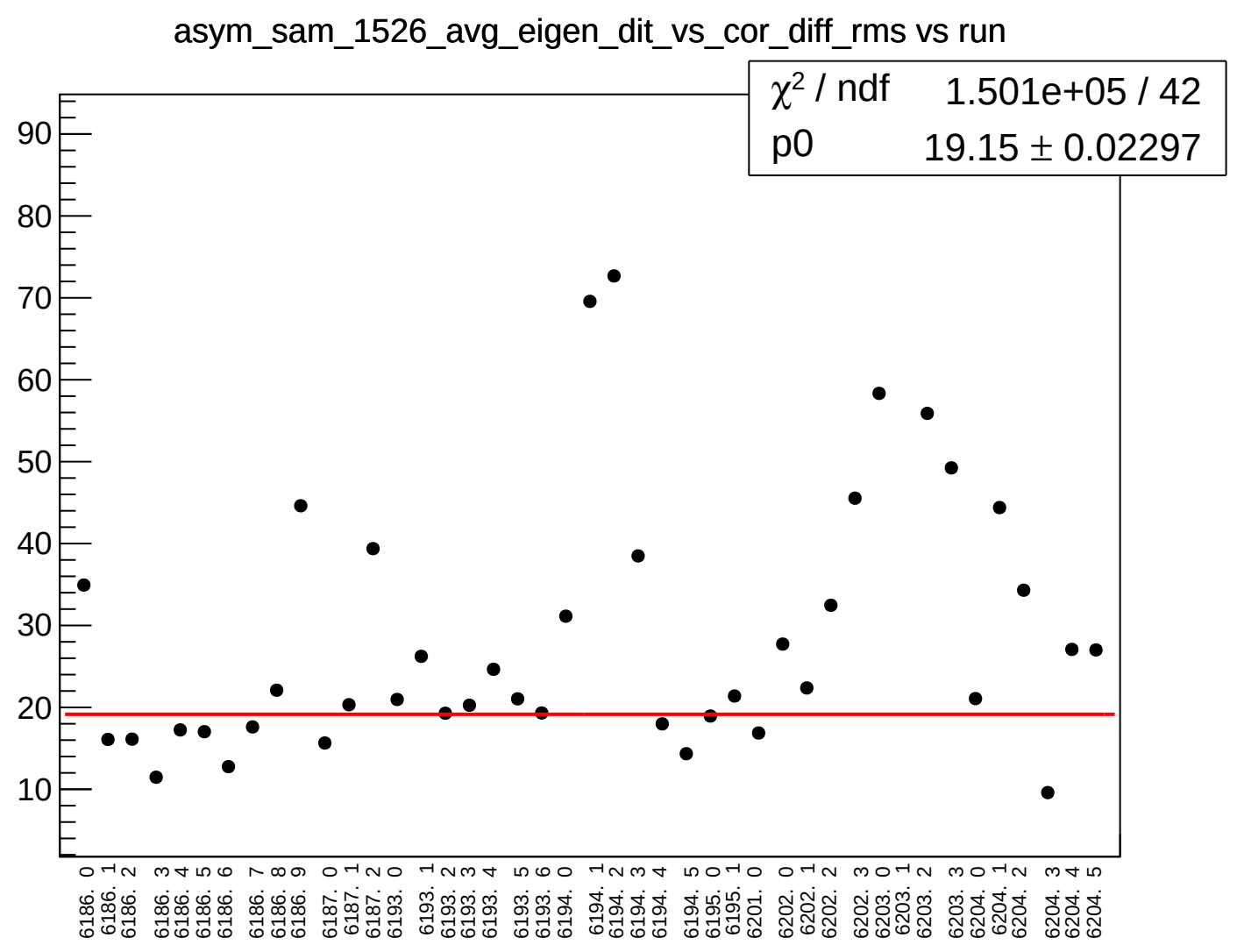

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.5e+05 / 42
p0 19.16 ± 0.02298
90
80
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 58.29 / 42
p0 3.251e−06 ± 9.126e−06
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 999.2
Std Dev 0
4
3
2
1
0
−1
−2
−3

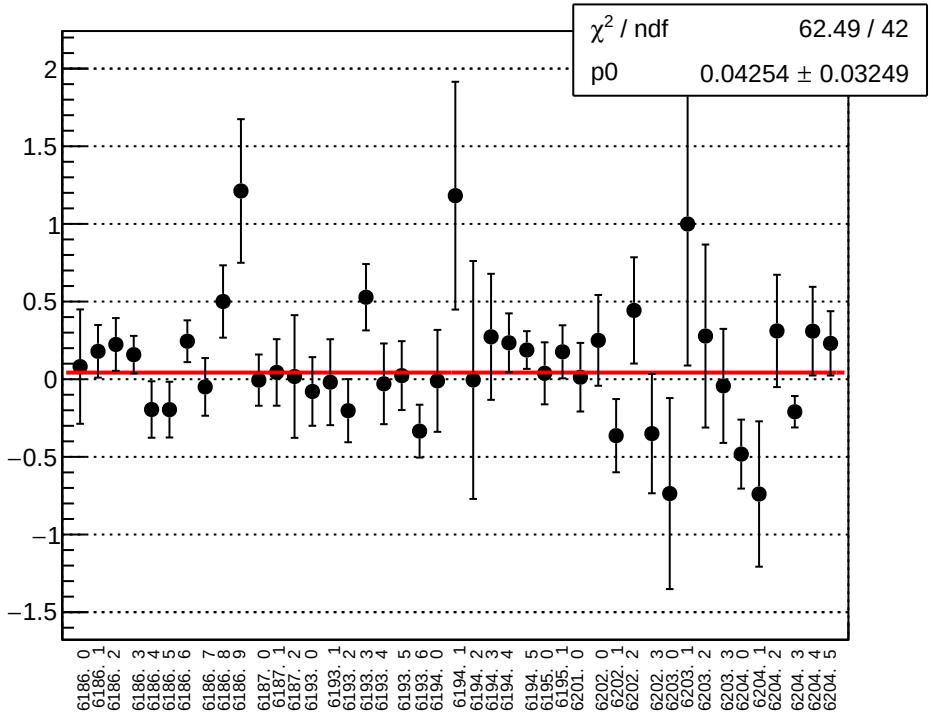

pull1D
Entries 43
Mean 0.002241
Std Dev 1.164
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

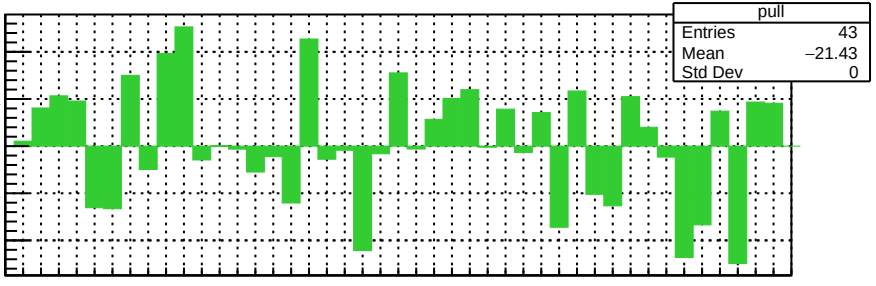

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4013 / 42
p0 0.005919 ± 6.453e−06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

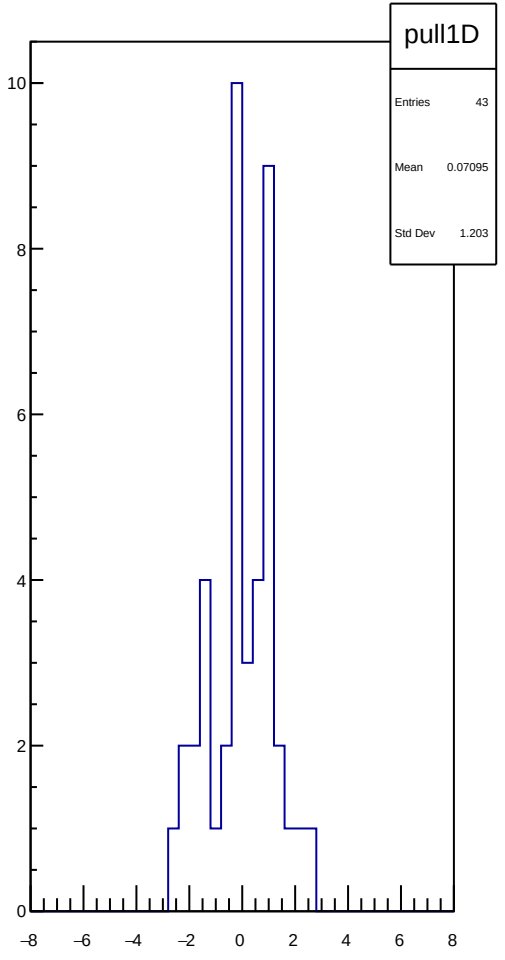

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 62.49 / 42
p0 0.04254 ± 0.03249
pull
Entries 43
Mean −21.43
Std Dev 0
pull1D
Entries 43
Mean 0.07095
Std Dev 1.203

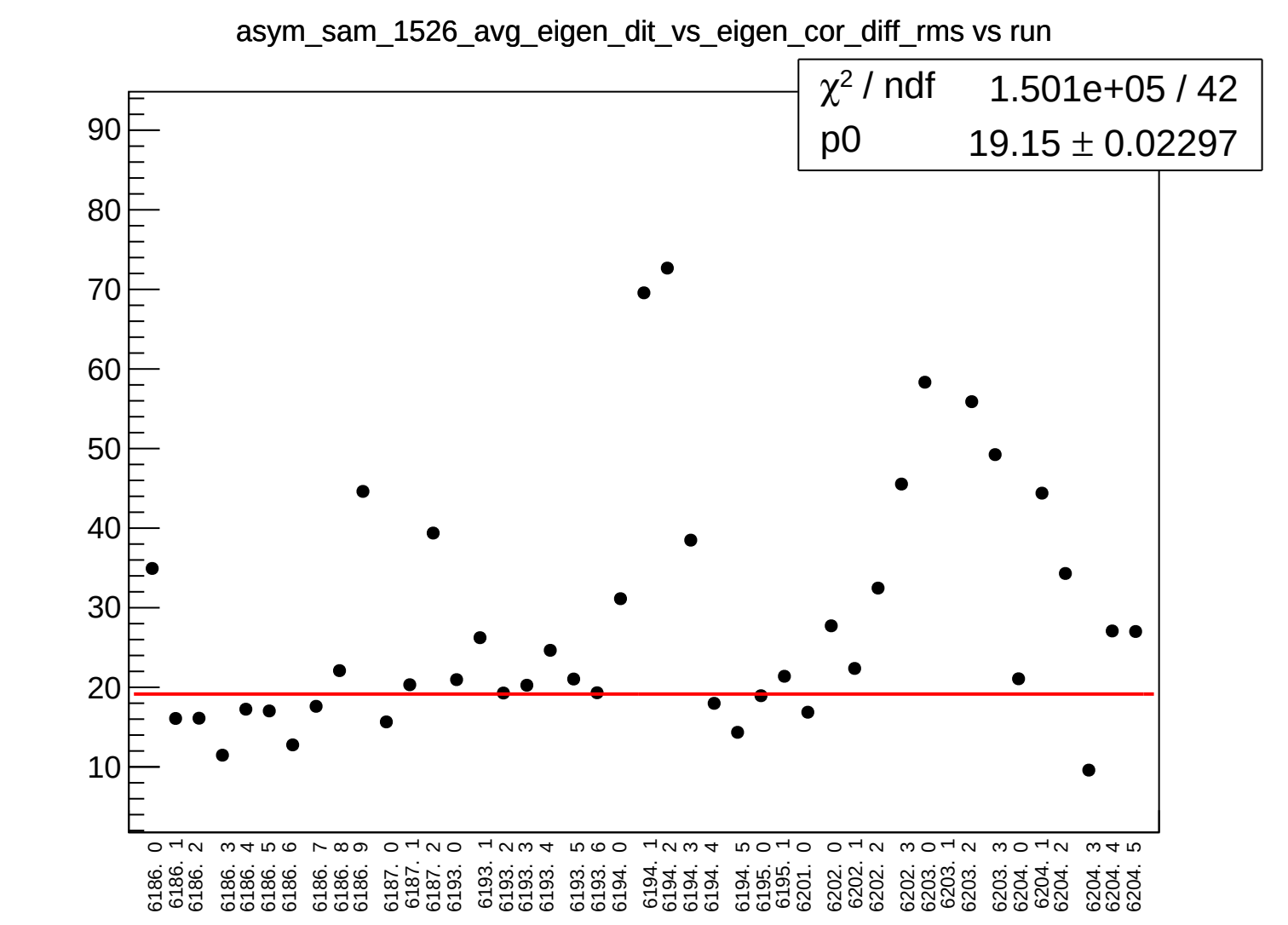

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.501e+05 / 42
p0 19.15 ± 0.02297
90
80
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

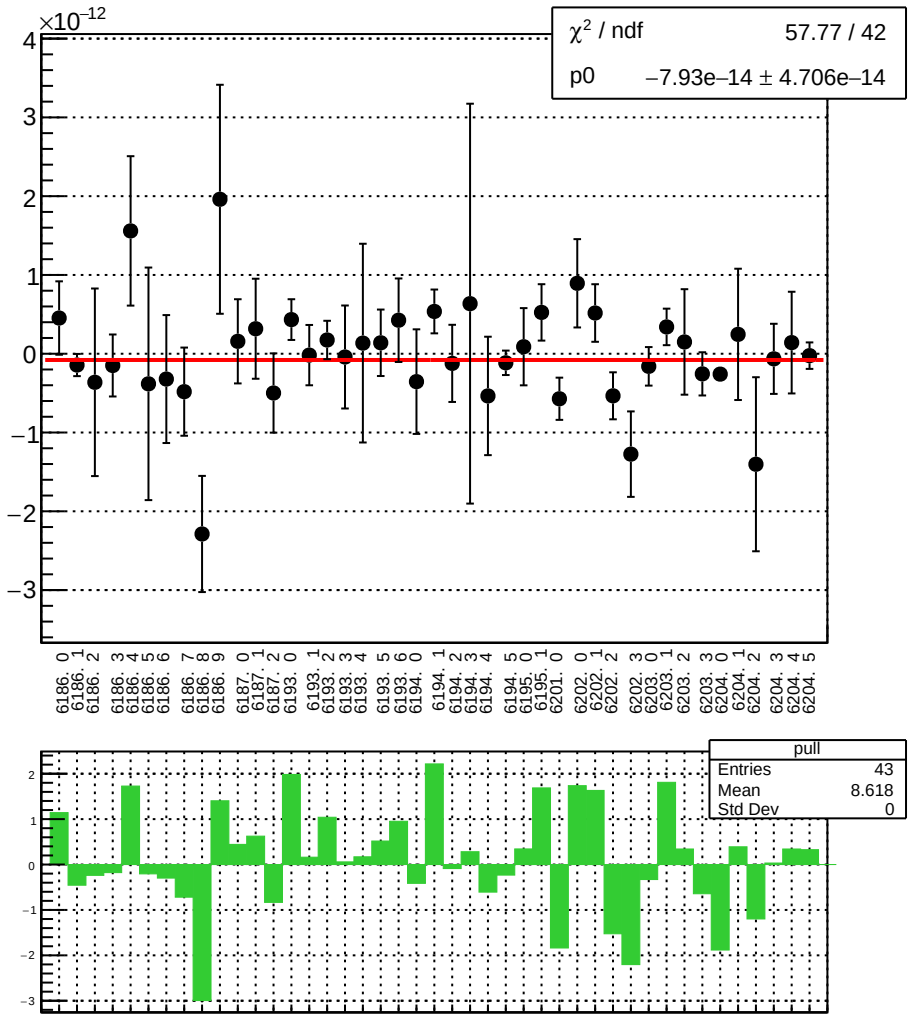
asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

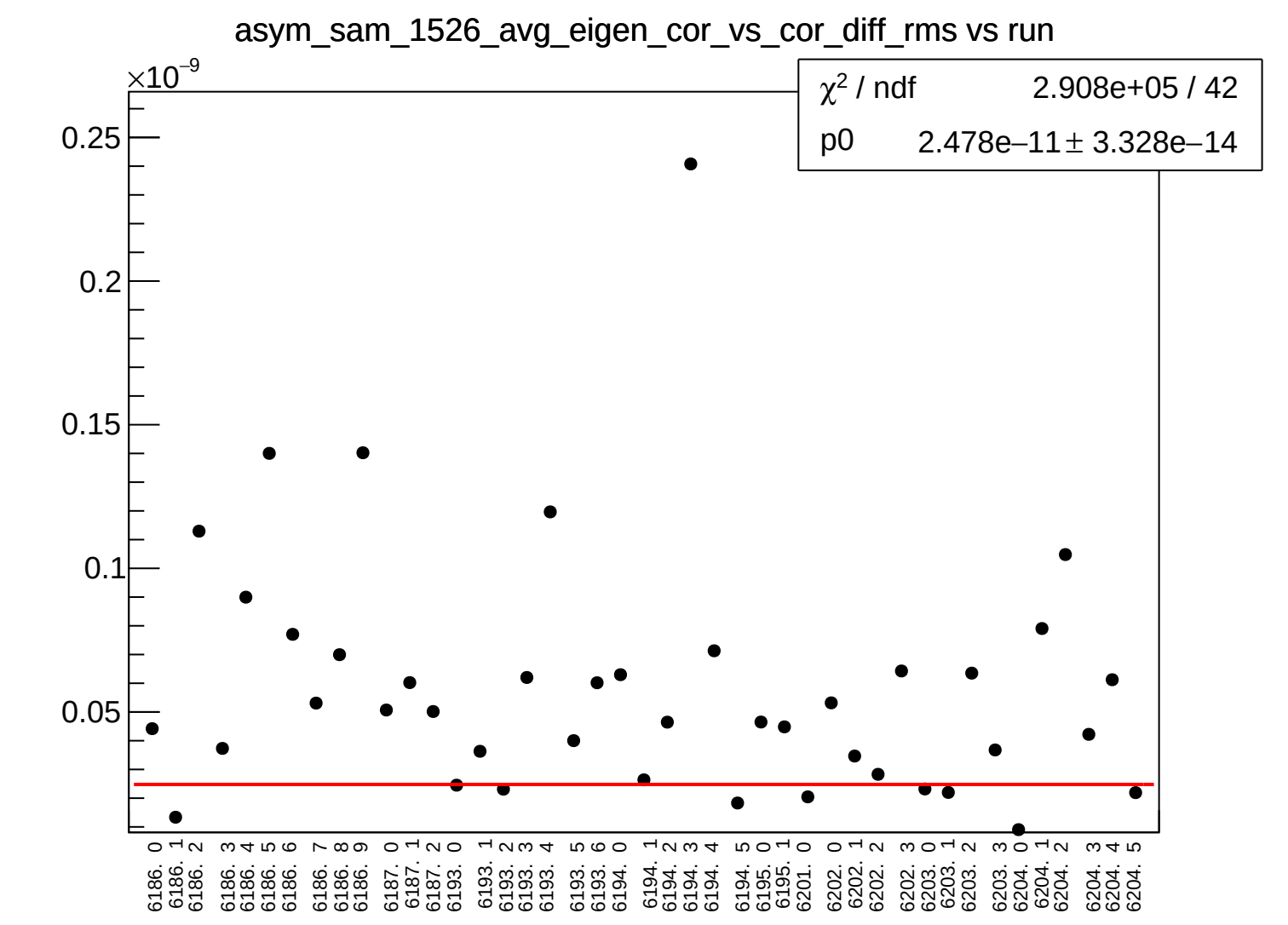


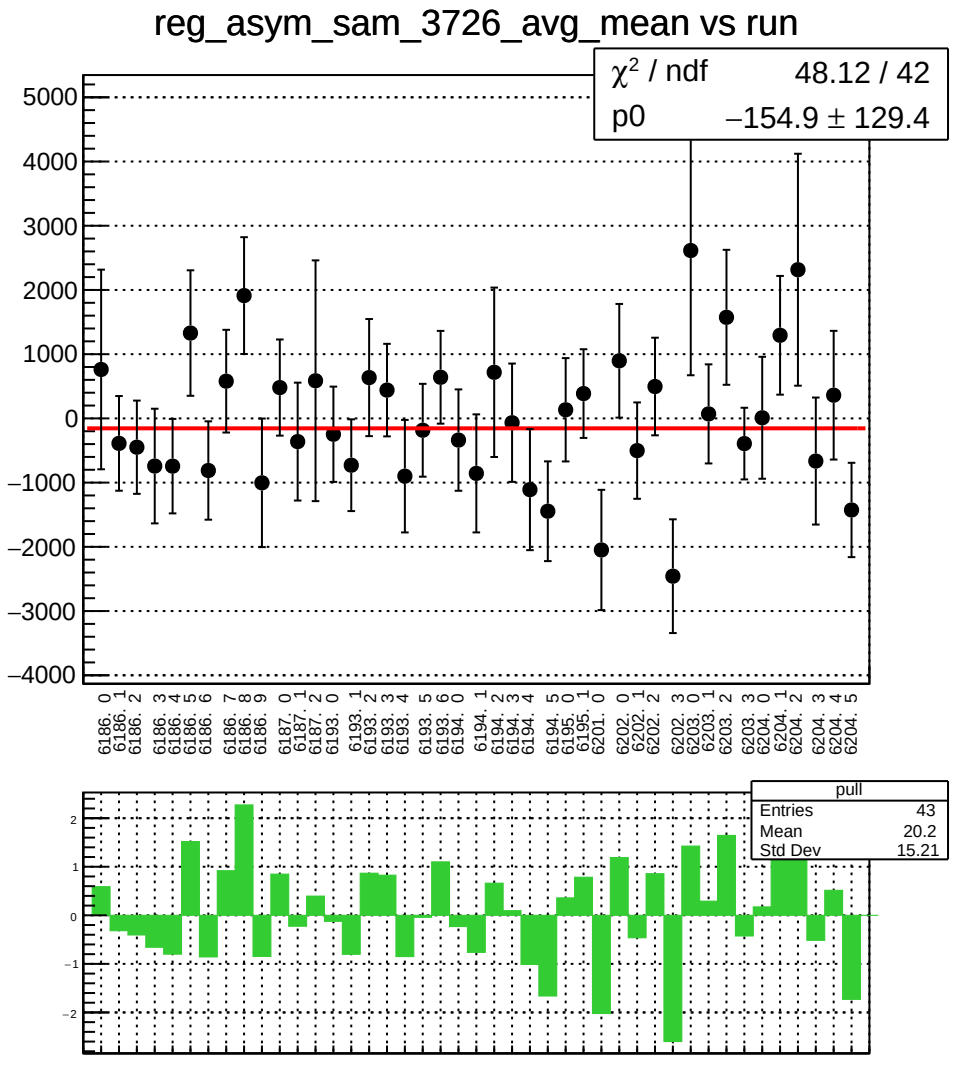


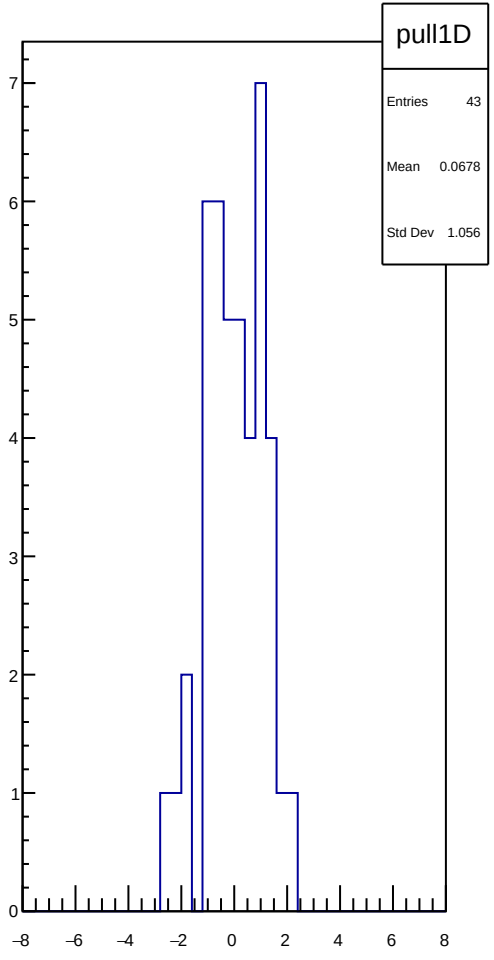


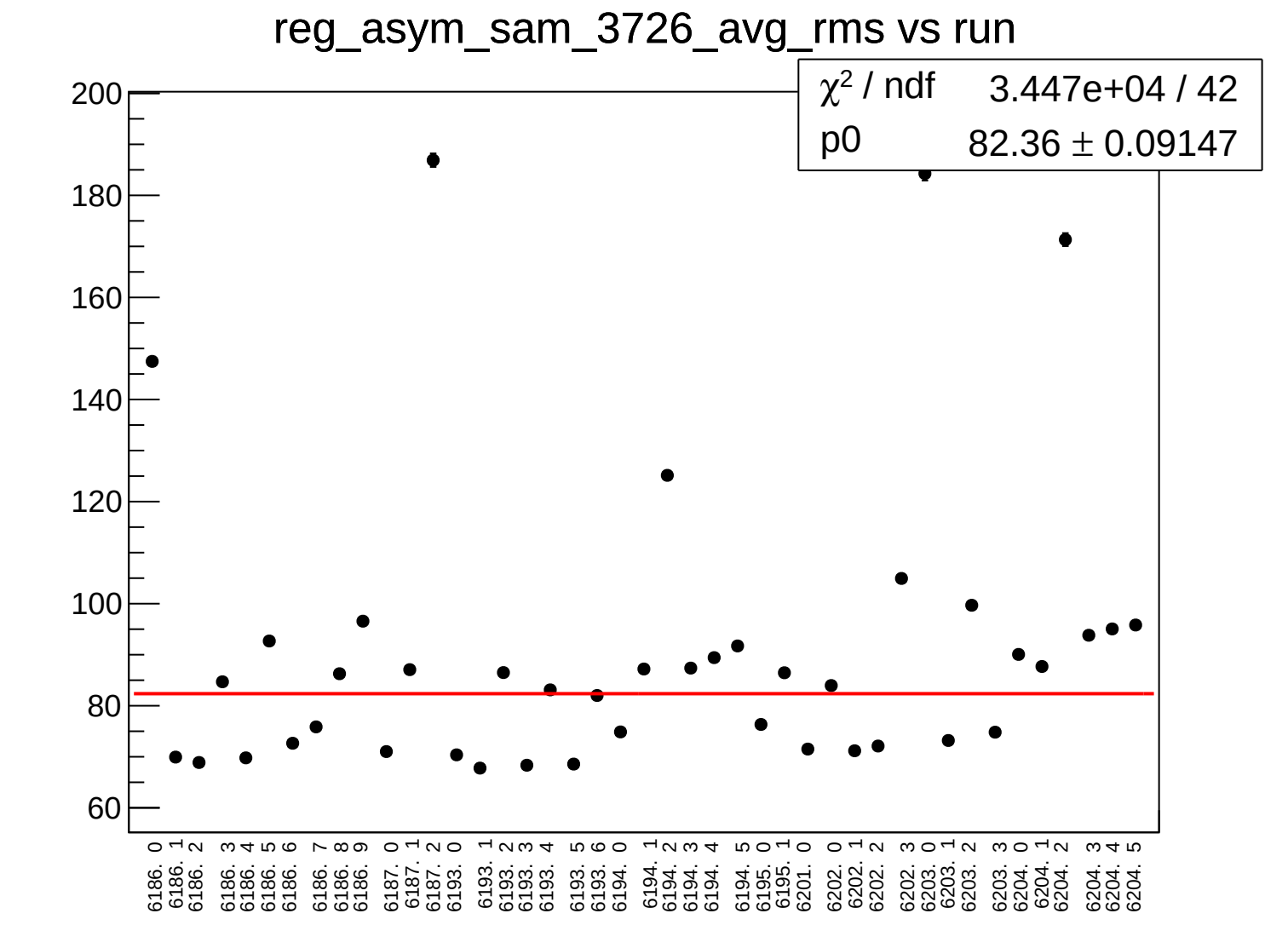

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.501e+05 / 42
p0 19.15 ± 0.02297
90
80
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

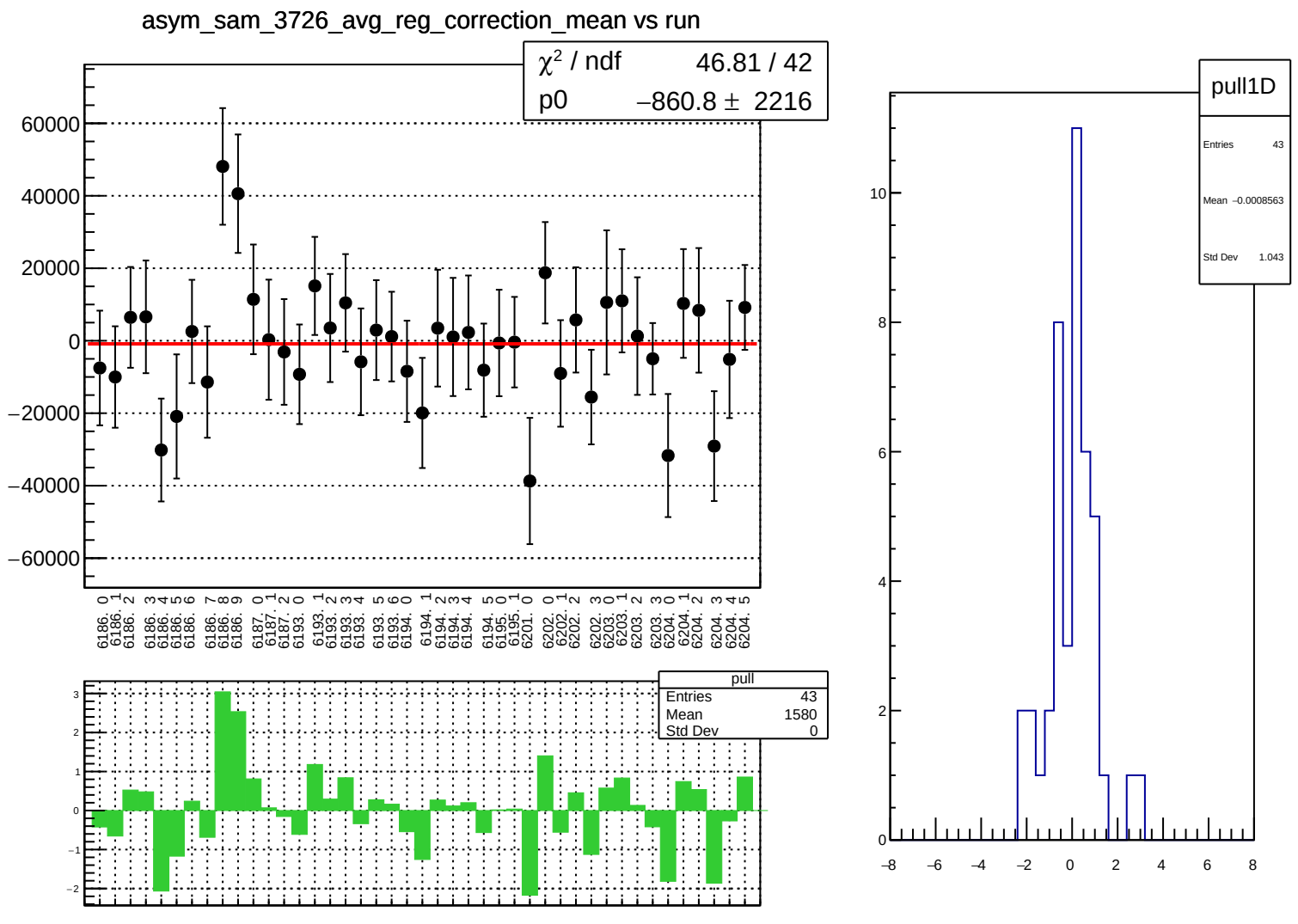

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 57.77 / 42
p0 −7.93e−14 ± 4.706e−14
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 8.618
Std Dev 0
pull1D
Entries 43
Mean 0.1043
Std Dev 1.154

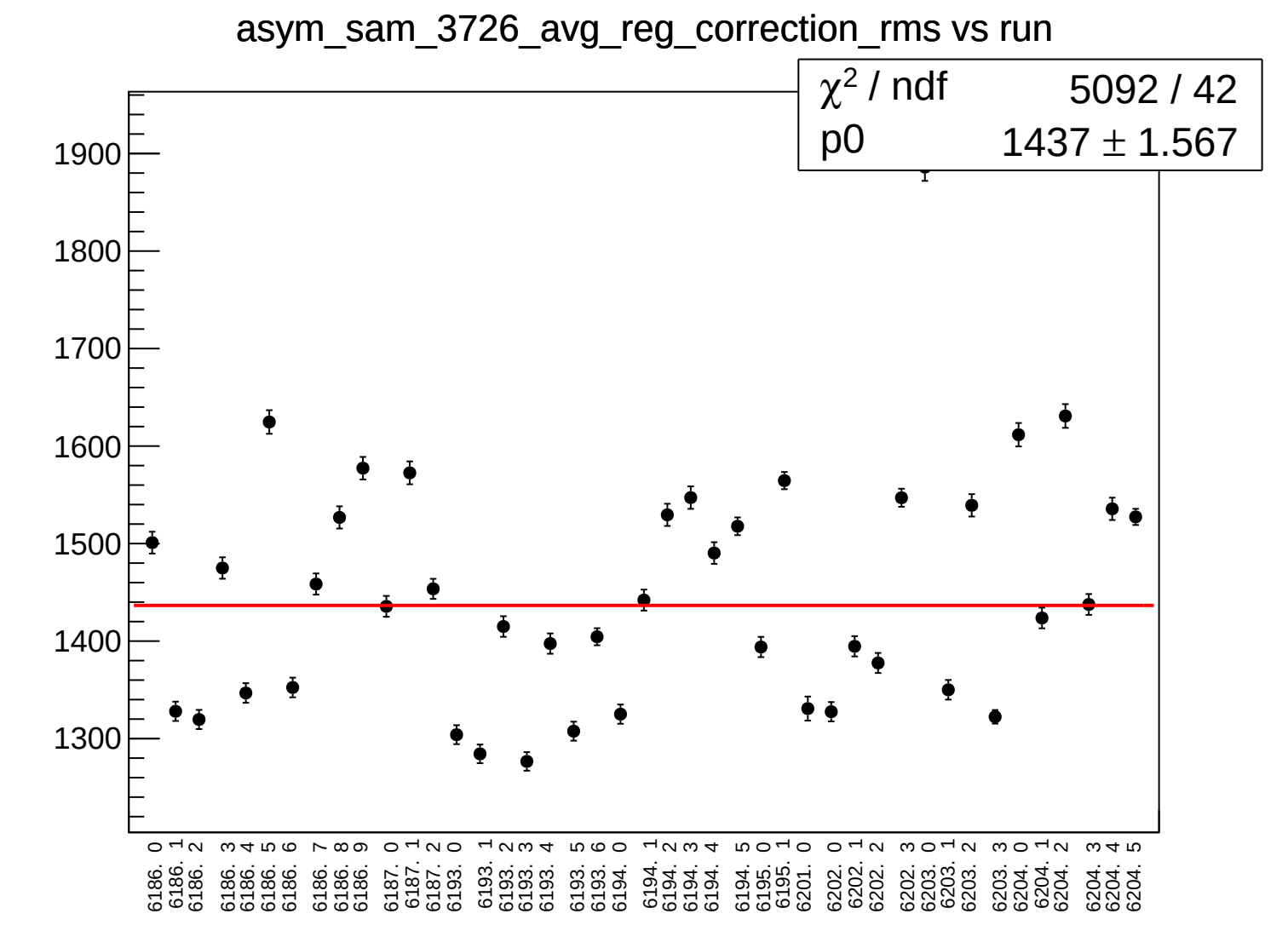

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.908e+05 / 42
p0 2.478e−11 ± 3.328e−14
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

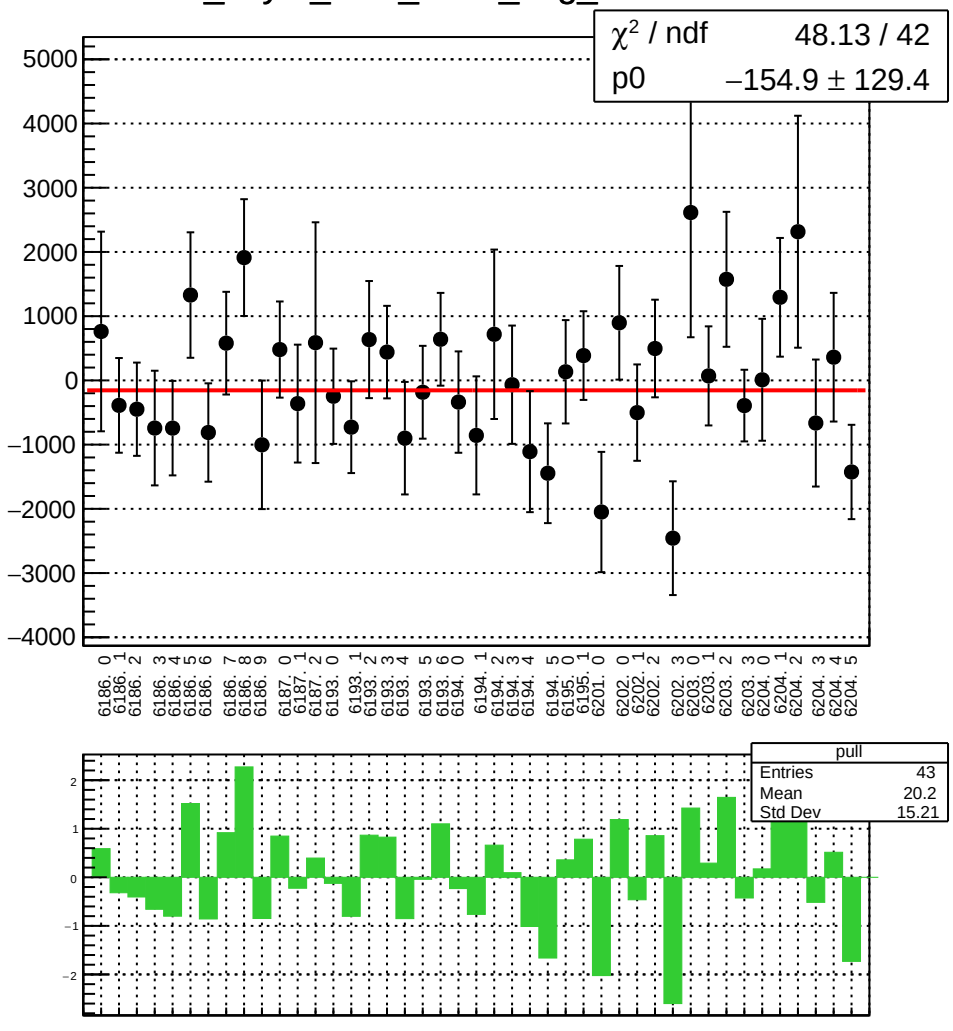

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 48.12 / 42
p0 −154.9 ± 129.4
pull
Entries 43
Mean 20.2
Std Dev 15.21

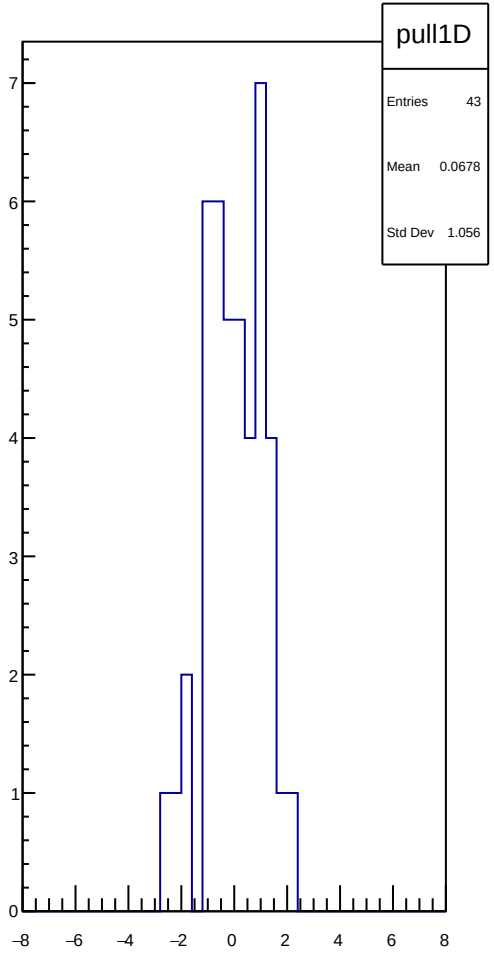

pull1D
Entries 43
Mean 0.0678
Std Dev 1.056

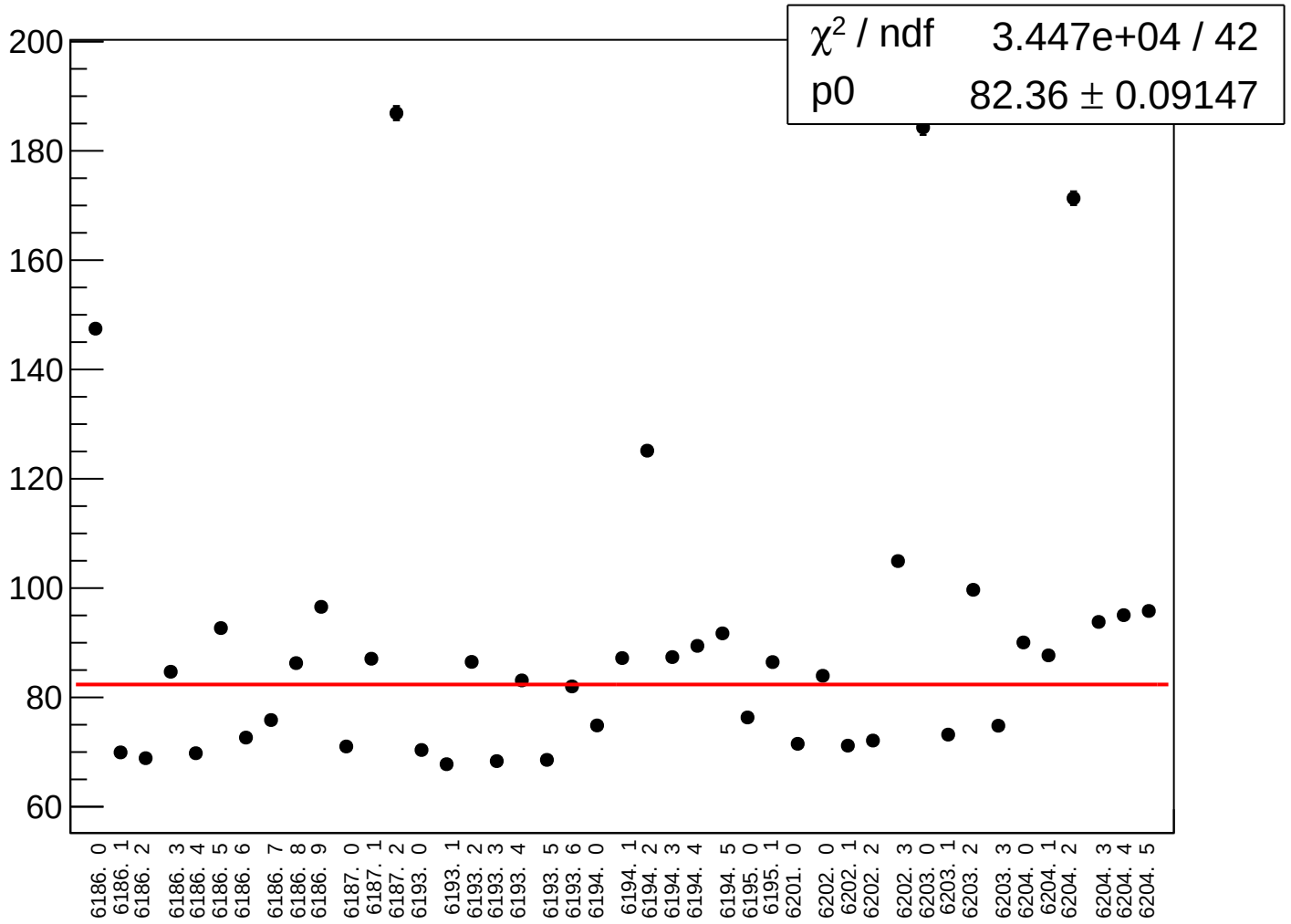

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 3.447e+04 / 42
p0 82.36 ± 0.09147
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

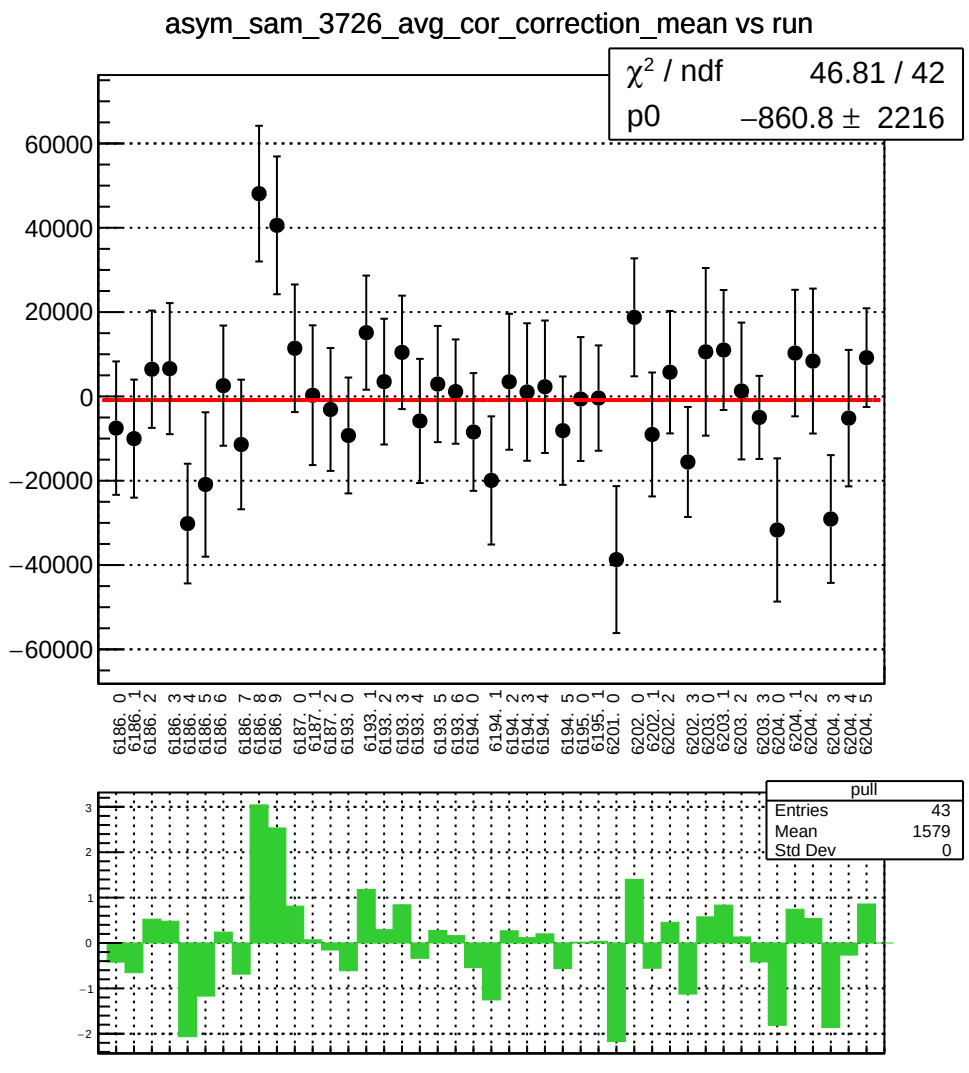

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 46.81 / 42
p0 −860.8 ± 2216
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1580
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0008563
Std Dev 1.043
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

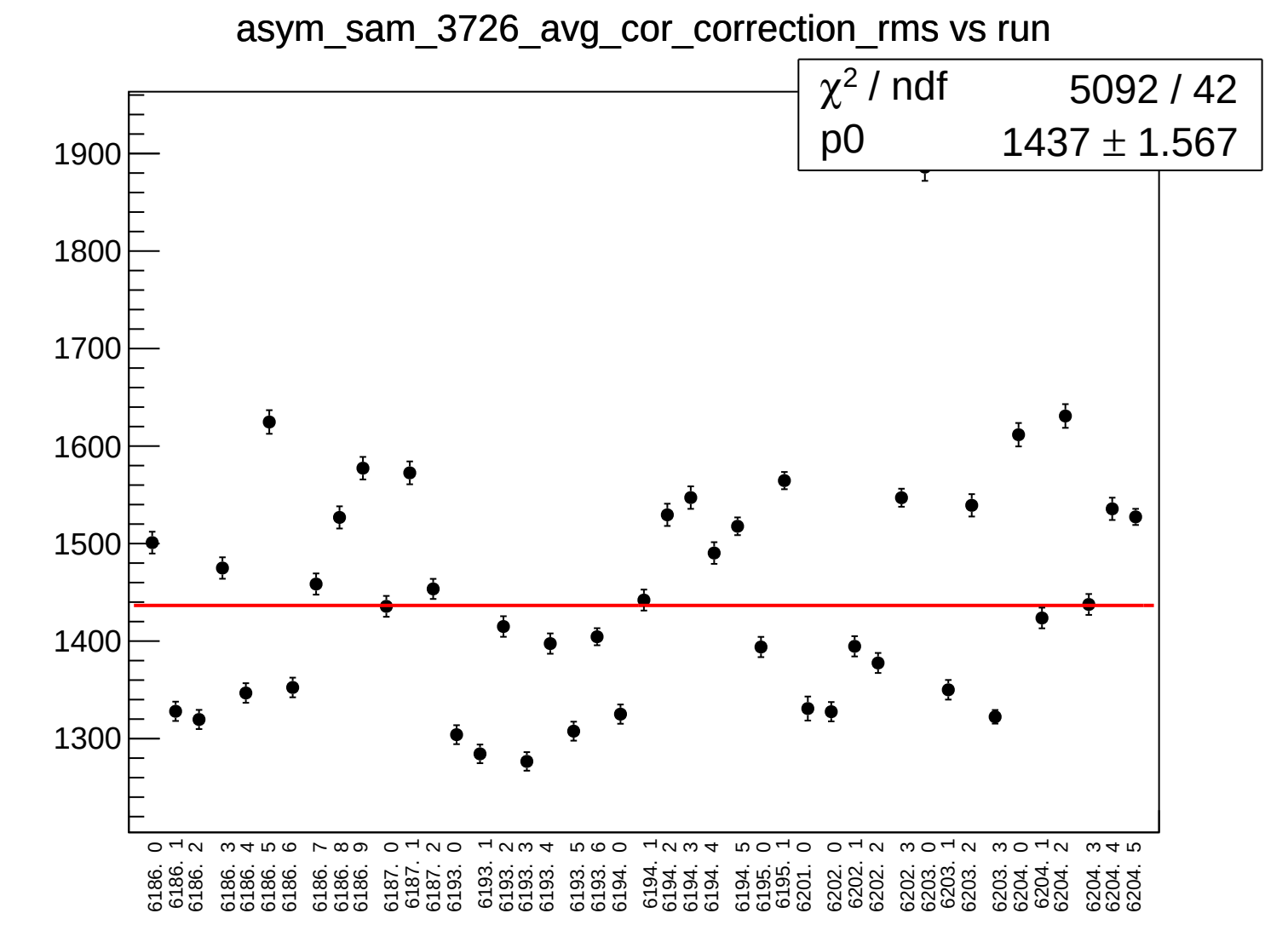

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 5092 / 42
p0 1437 ± 1.567
1900
1800
1700
1600
1500
1400
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

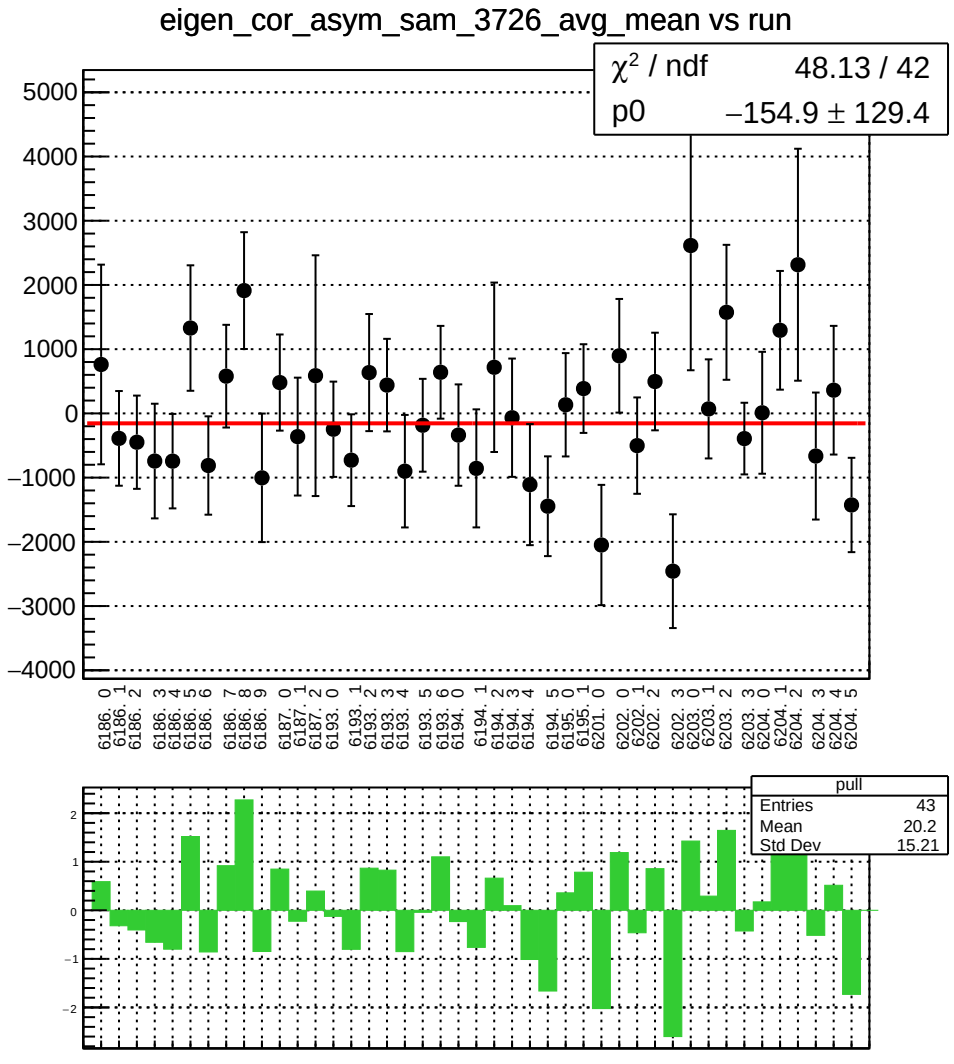

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 48.13 / 42
p0 −154.9 ± 129.4
pull
Entries 43
Mean 20.2
Std Dev 15.21

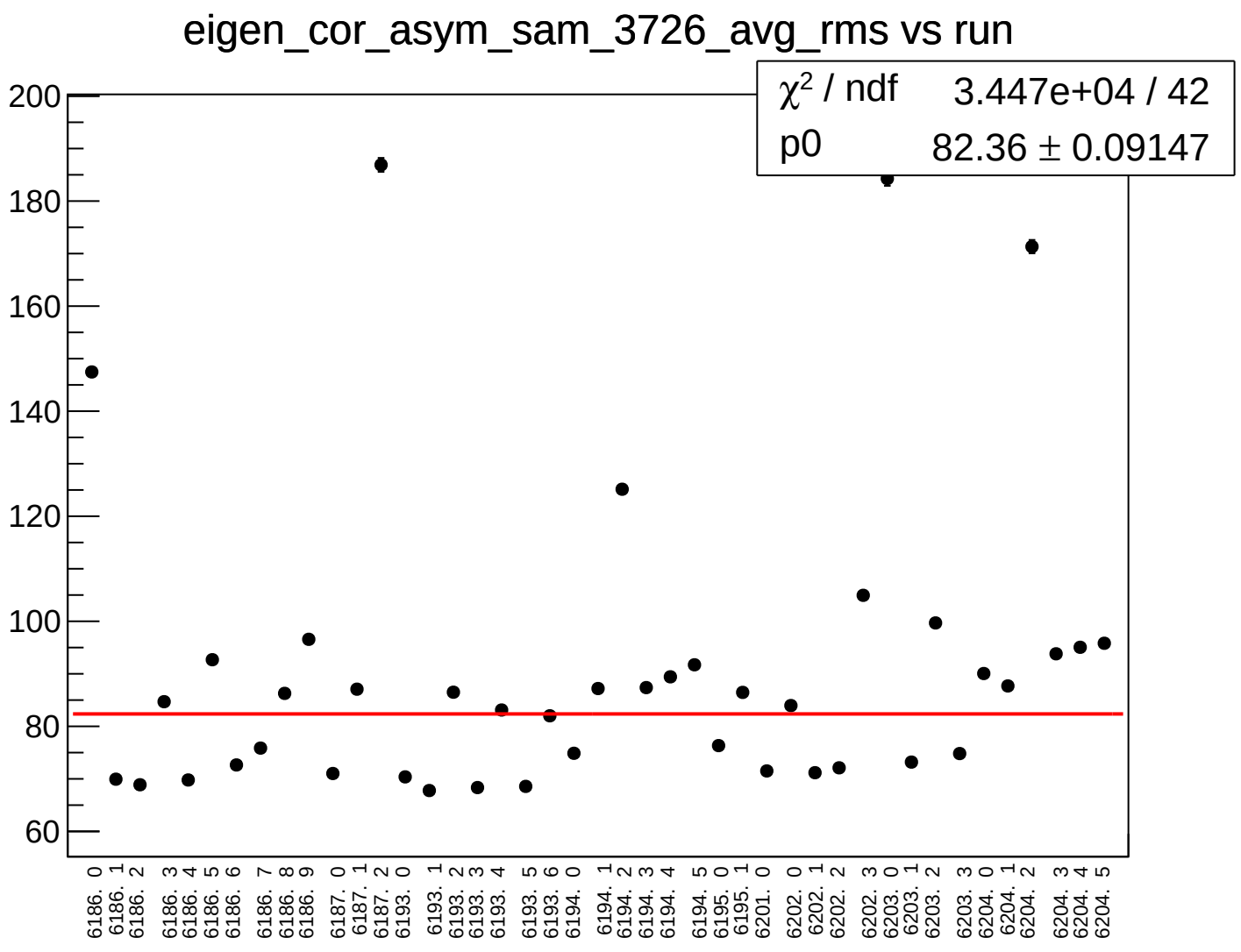

pull1D
Entries 43
Mean 0.0678
Std Dev 1.056

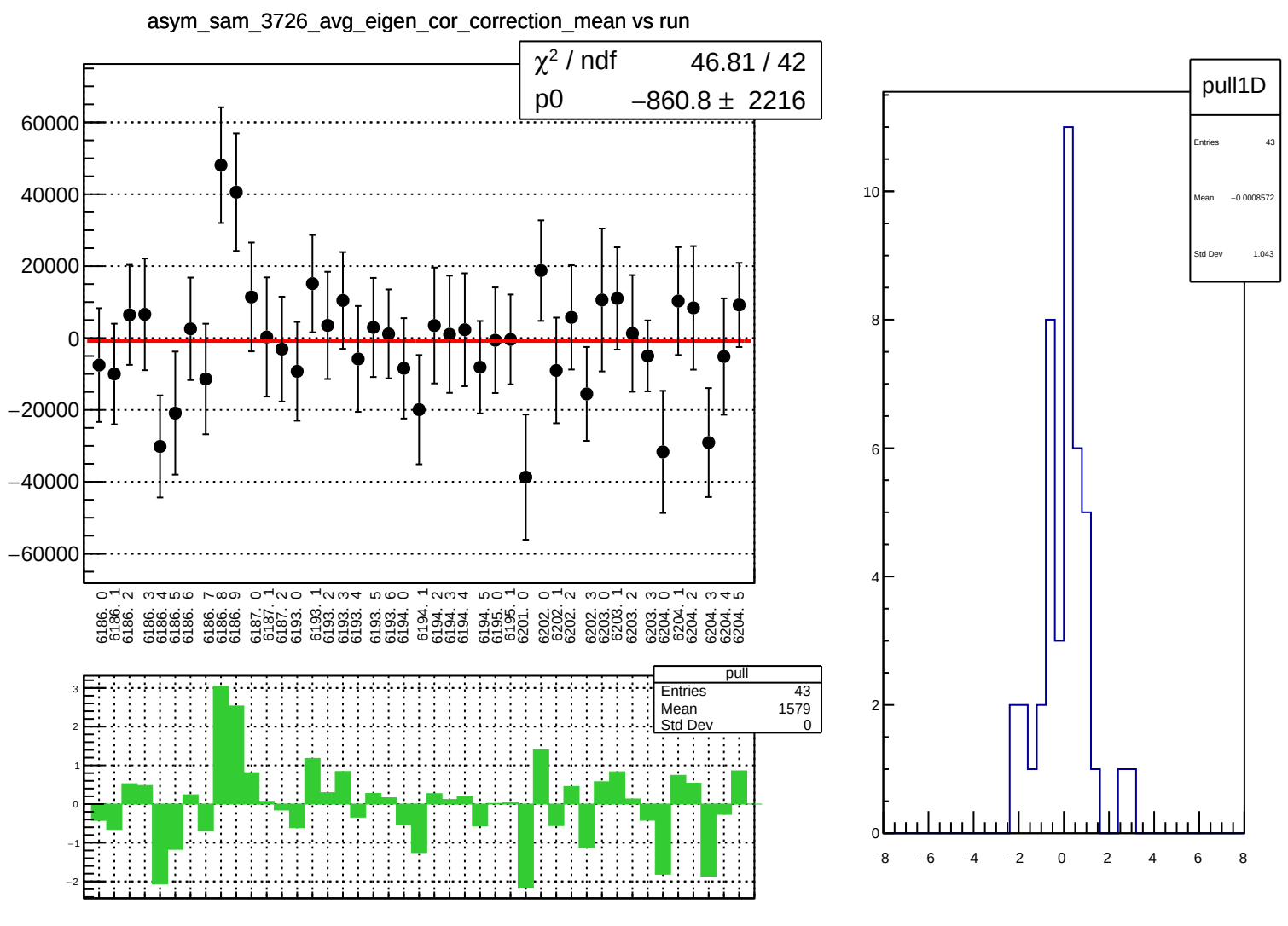

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.447e+04 / 42
p0 82.36 ± 0.09147
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

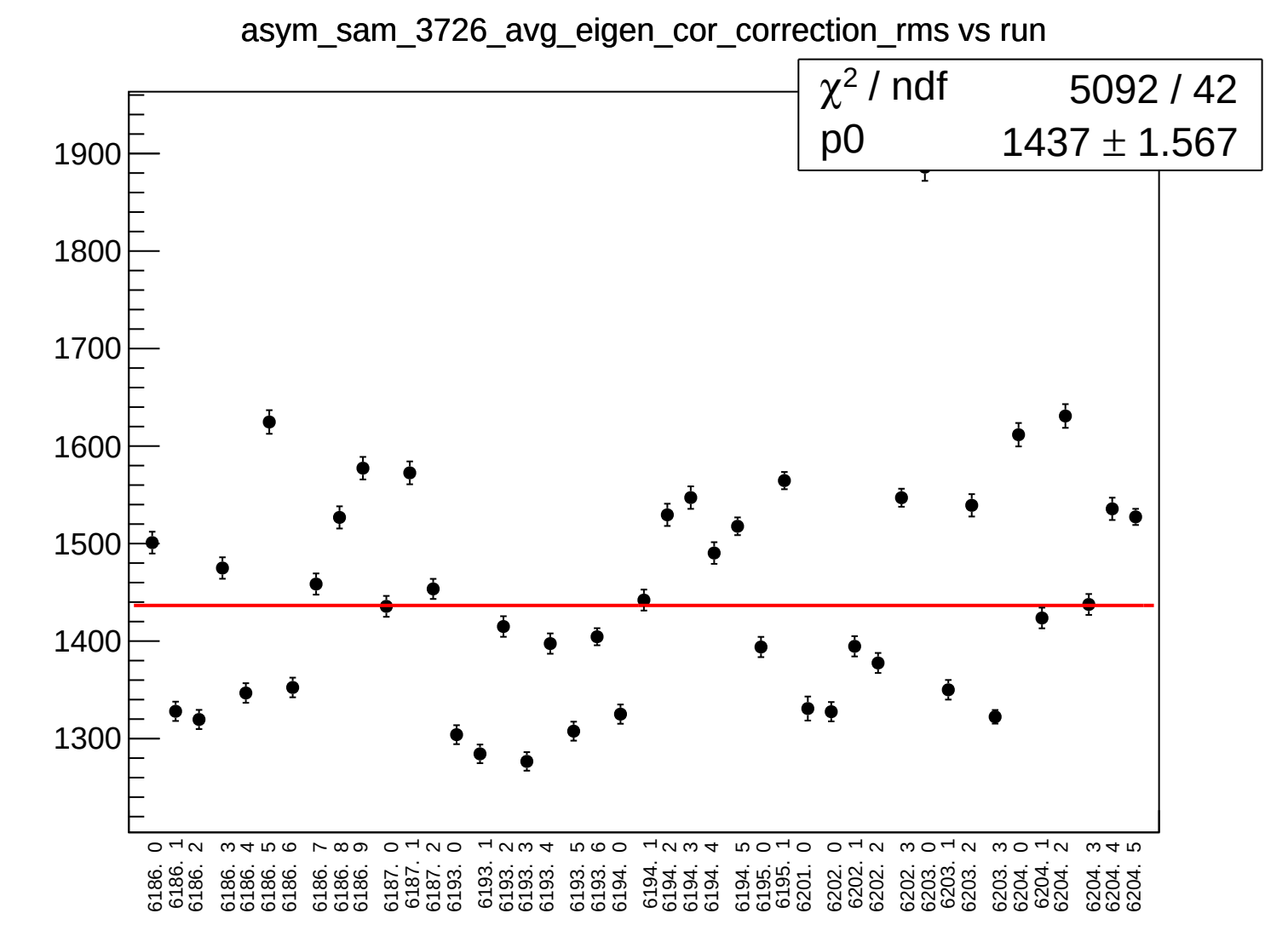

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 46.81 / 42
p0 −860.8 ± 2216
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1579
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0008572
Std Dev 1.043
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

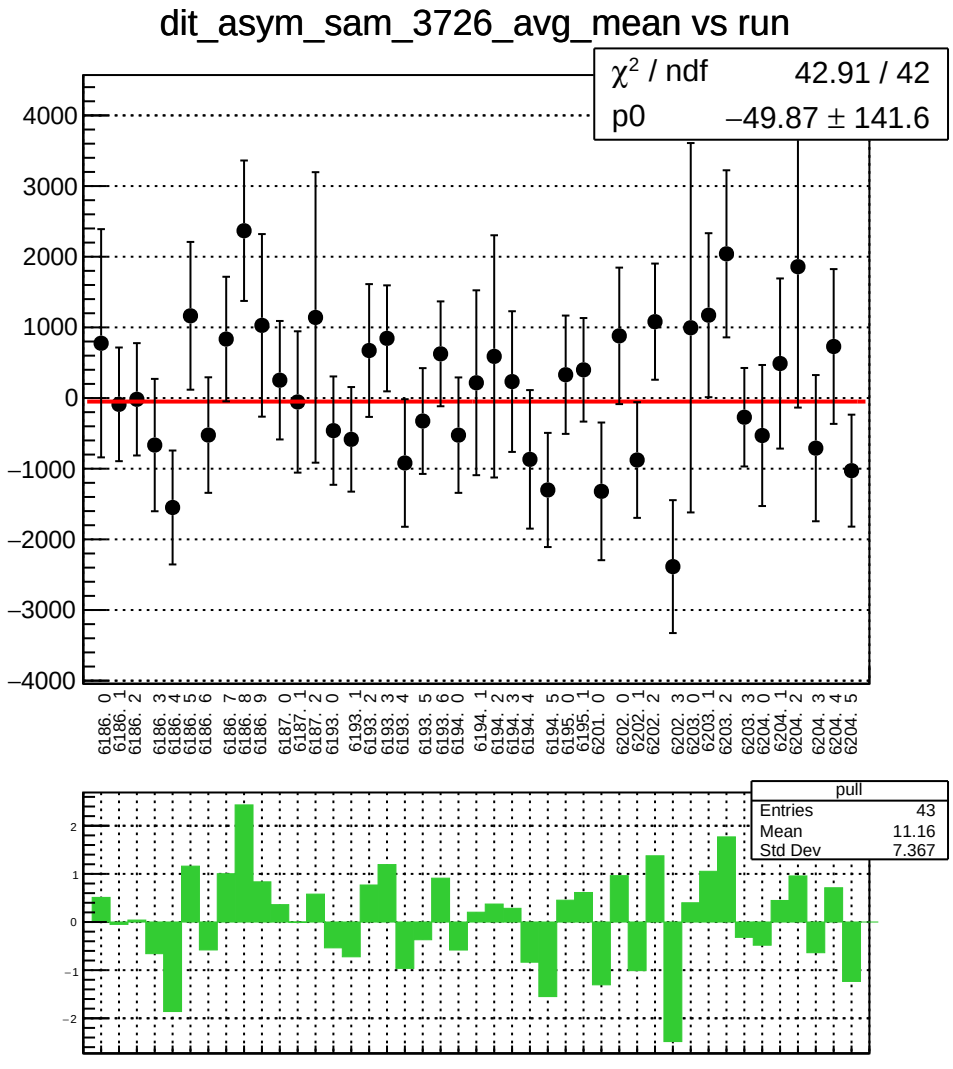

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 5092 / 42
p0 1437 ± 1.567
1900
1800
1700
1600
1500
1400
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

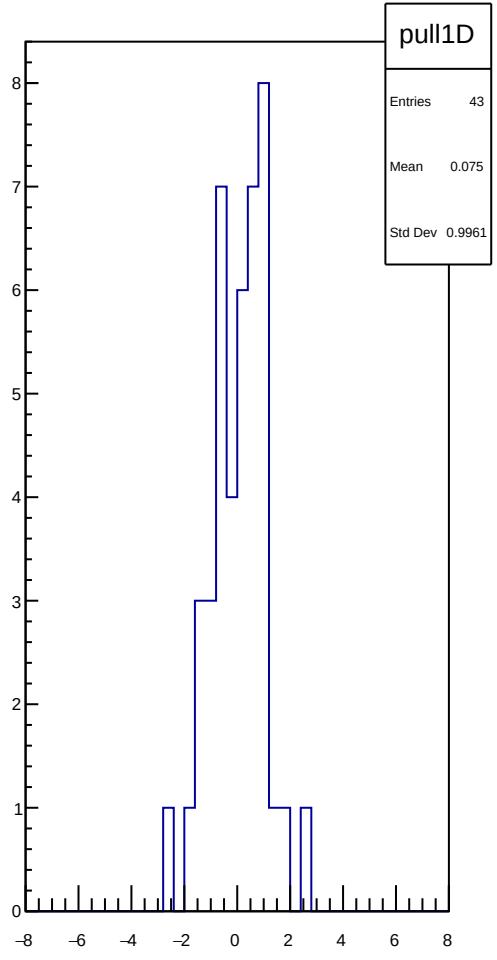

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 48.13 / 42
p0 −154.9 ± 129.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 20.2
Std Dev 15.21
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.0678
Std Dev 1.056
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

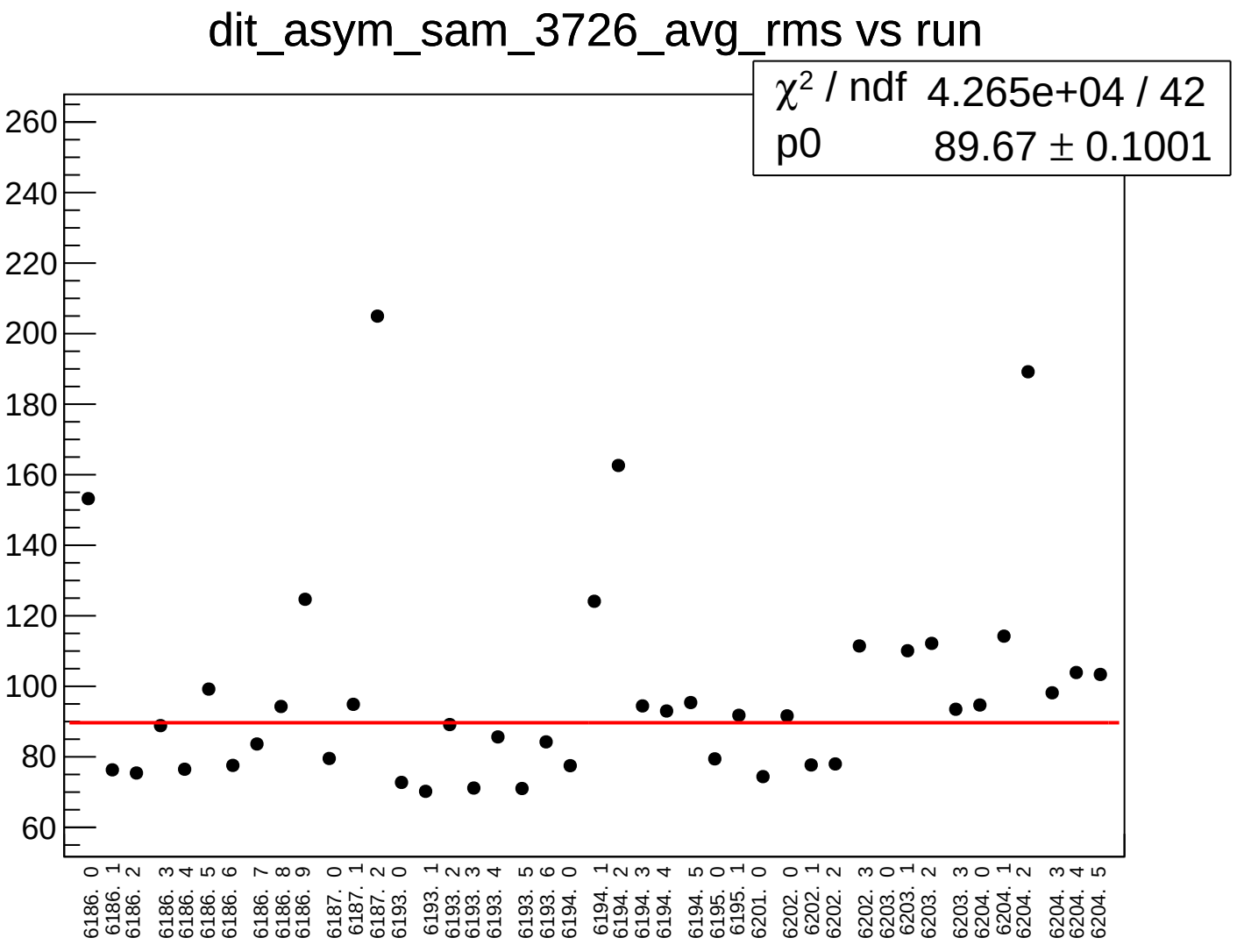

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.447e+04 / 42
p0 82.36 ± 0.09147
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

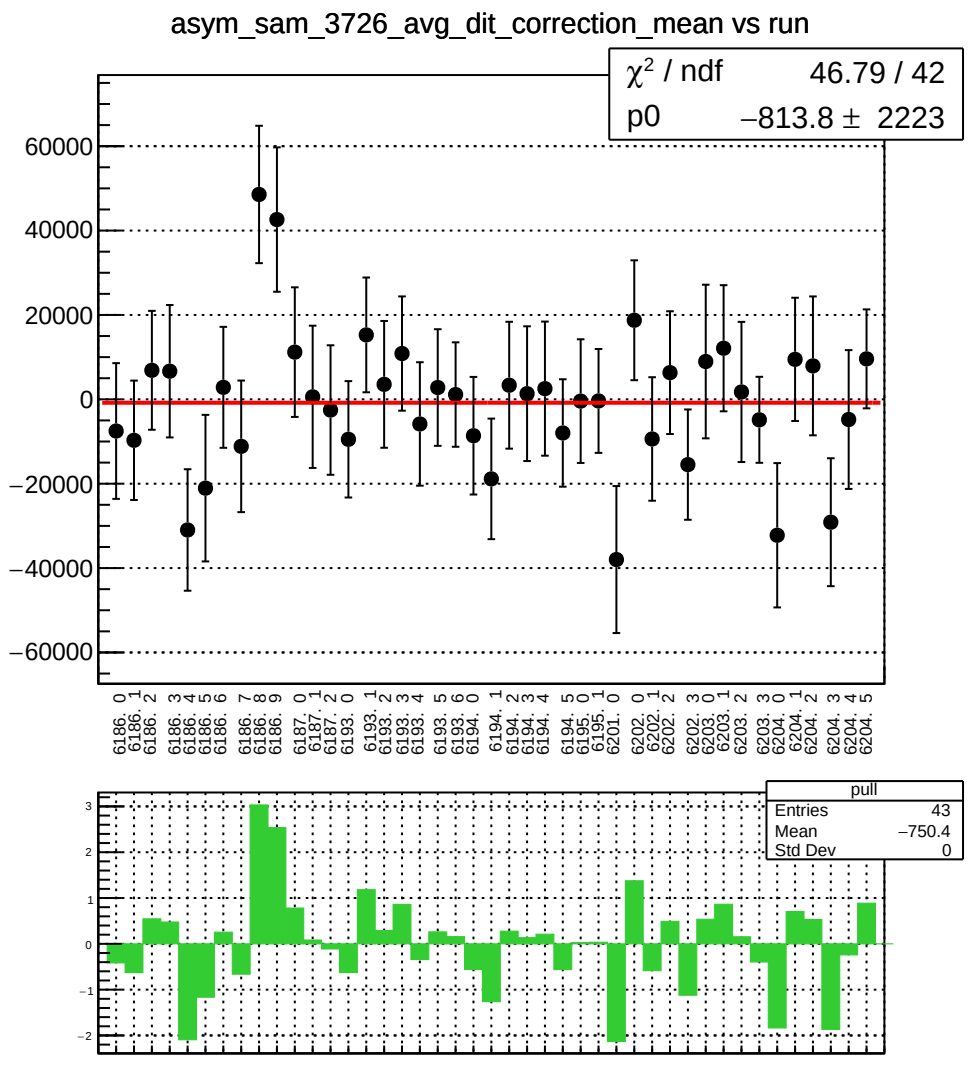

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 46.81 / 42
p0 −860.8 ± 2216
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1579
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0008572
Std Dev 1.043
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

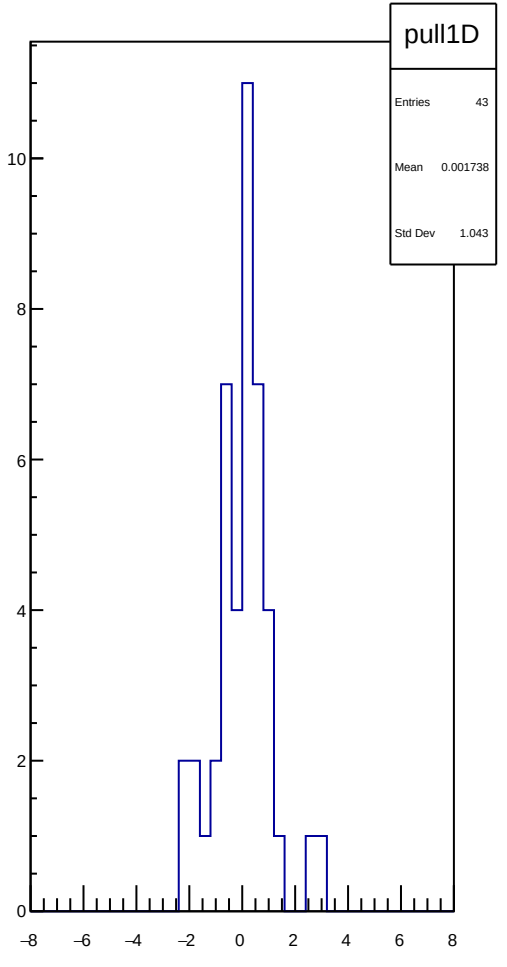

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 5092 / 42
p0 1437 ± 1.567
1900
1800
1700
1600
1500
1400
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

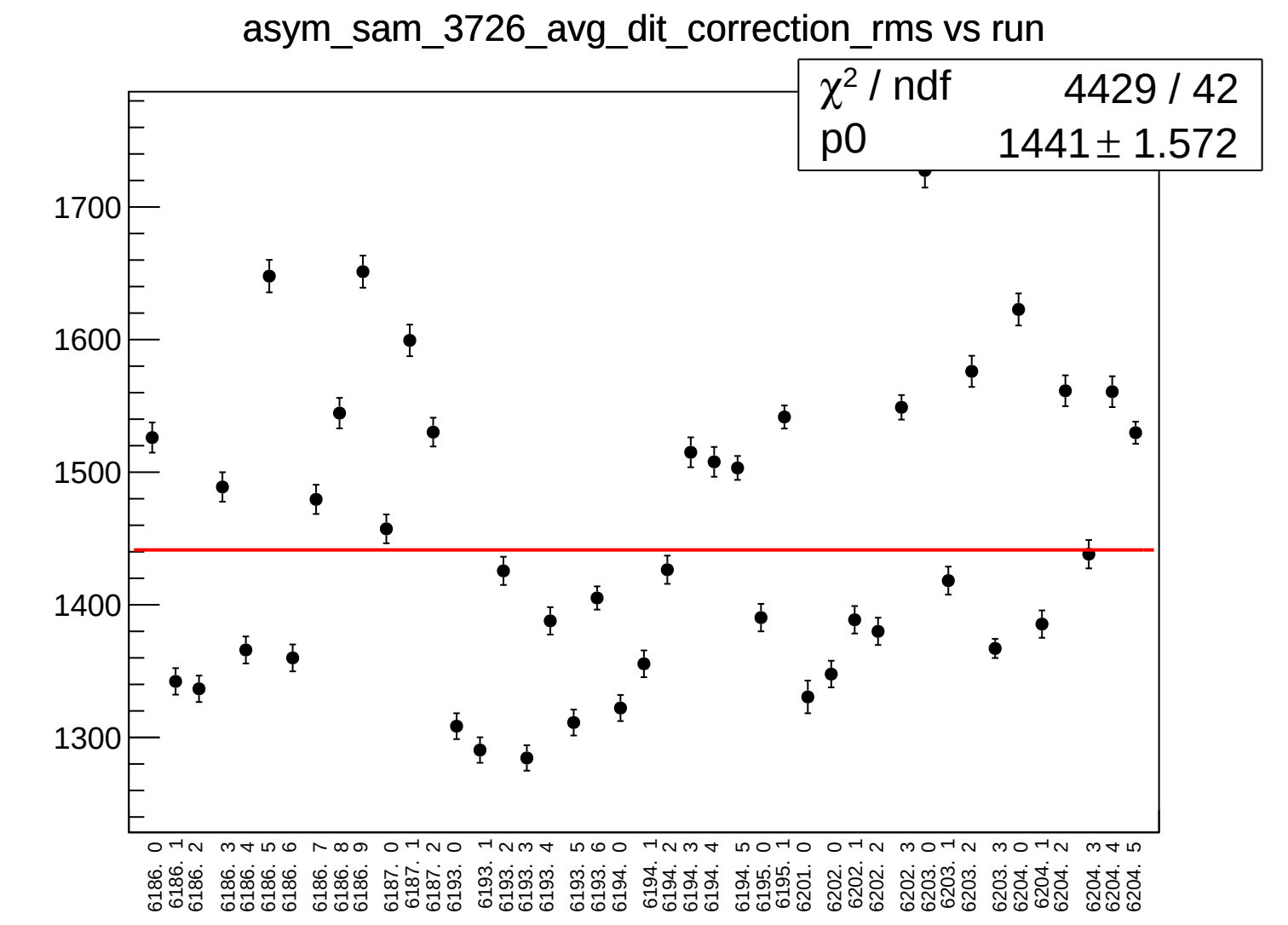

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 42.91 / 42
p0 −49.87 ± 141.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 11.16
Std Dev 7.367
2
1
0
−1
−2

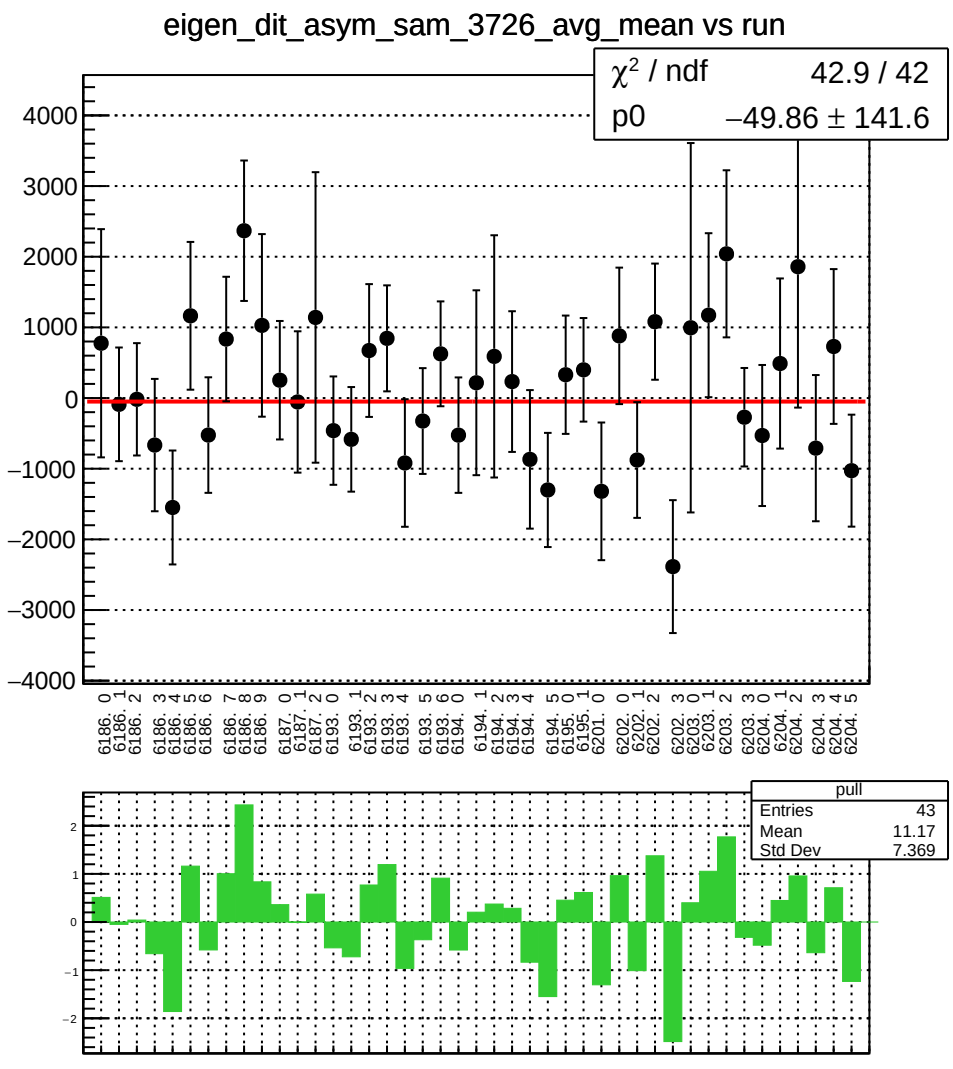

pull1D
Entries 43
Mean 0.075
Std Dev 0.9961
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

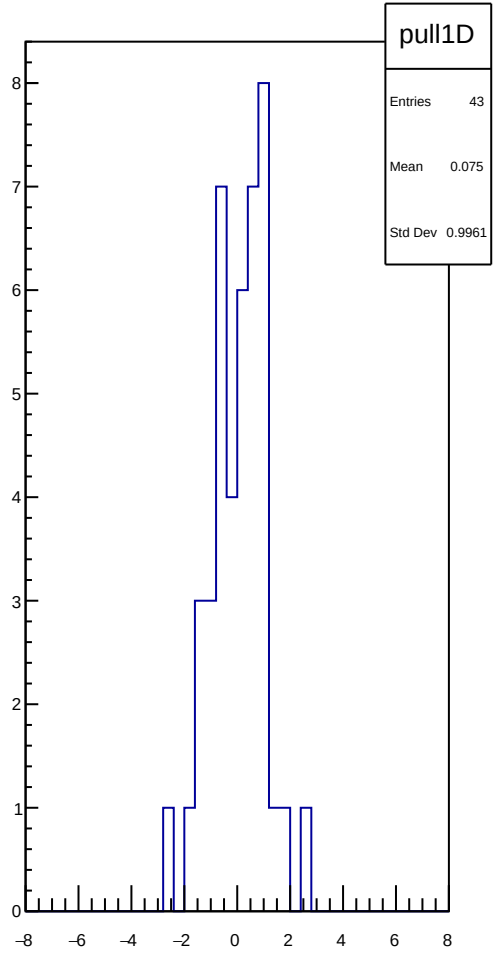

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.265e+04 / 42
p0 89.67 ± 0.1001
260
240
220
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

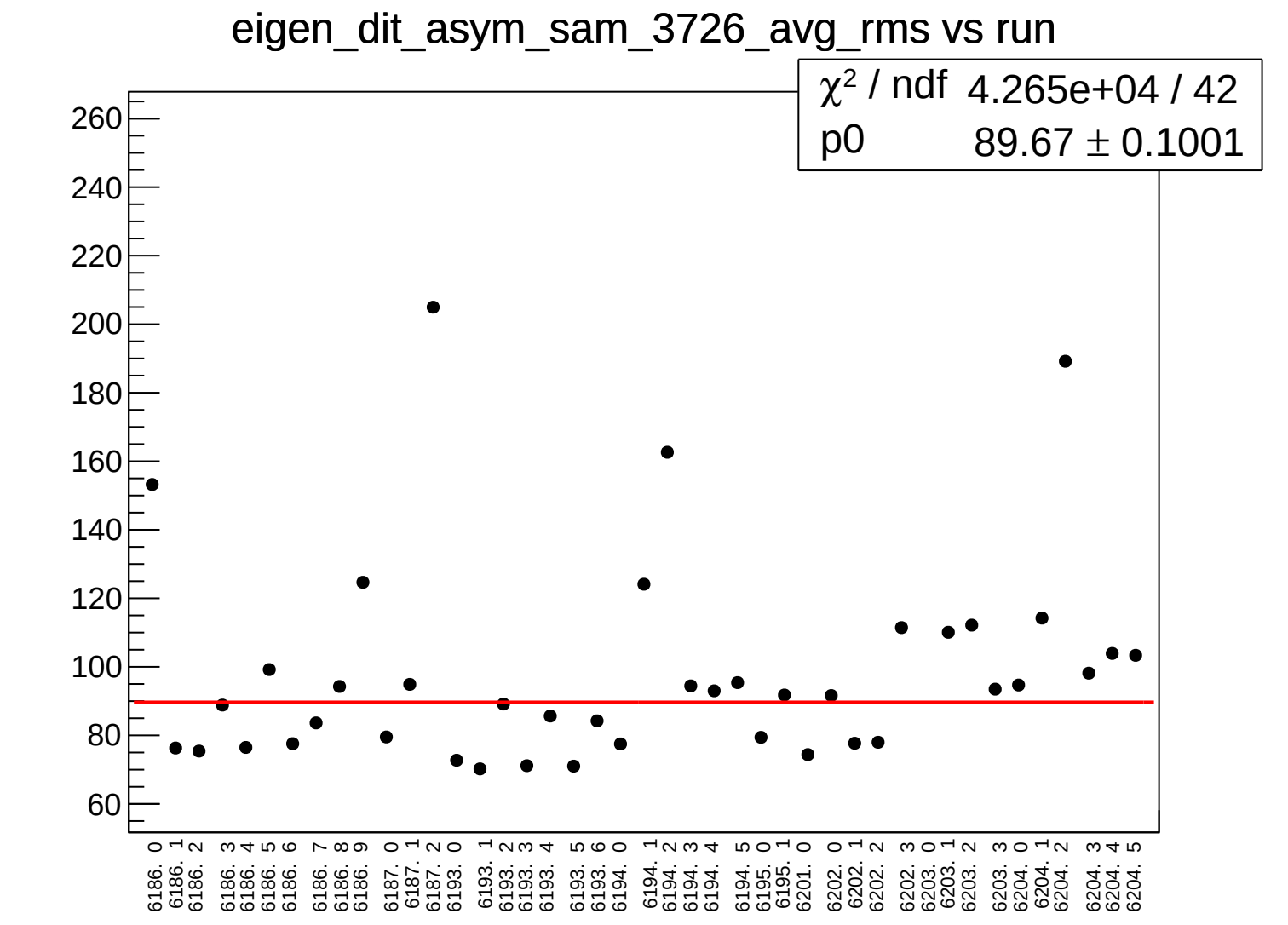

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 46.79 / 42
p0 −813.8 ± 2223
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −750.4
Std Dev 0
3
2
1
0
−1
−2

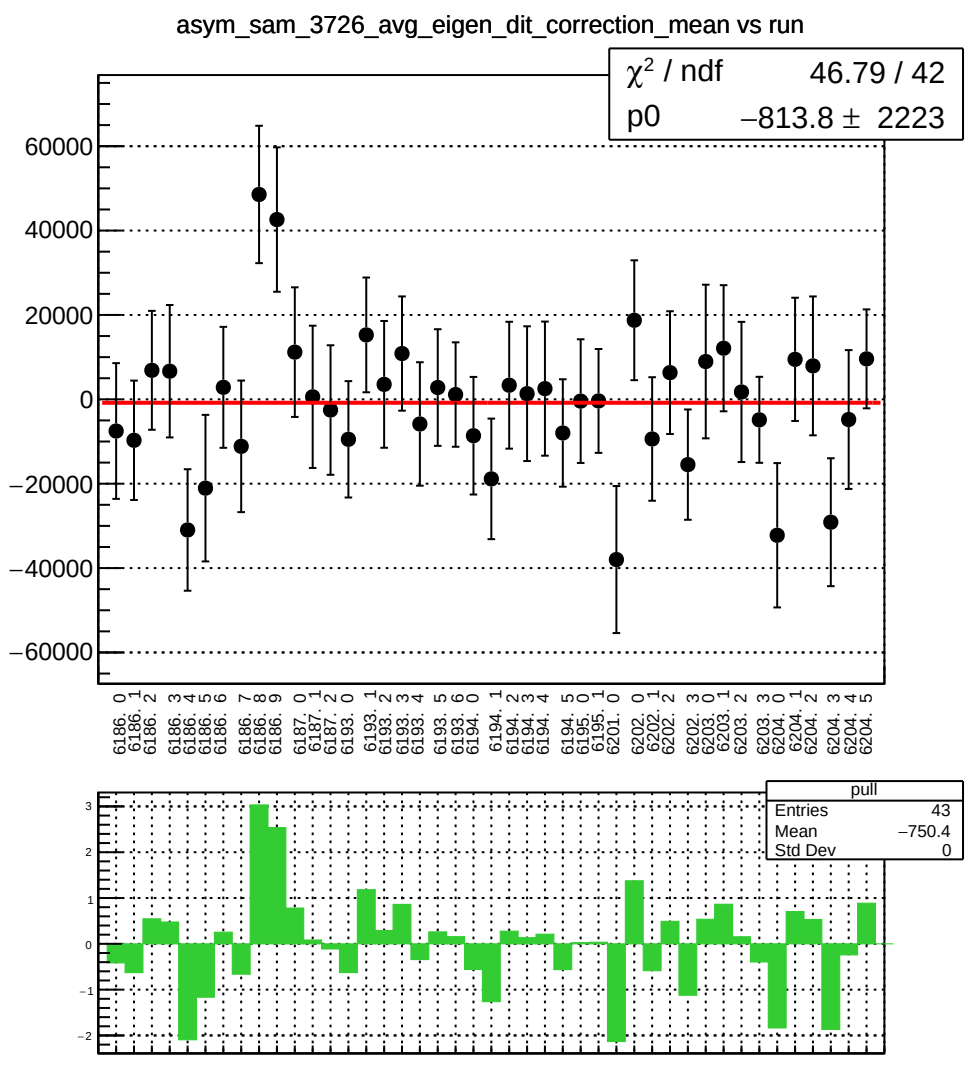

pull1D
Entries 43
Mean 0.001738
Std Dev 1.043
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

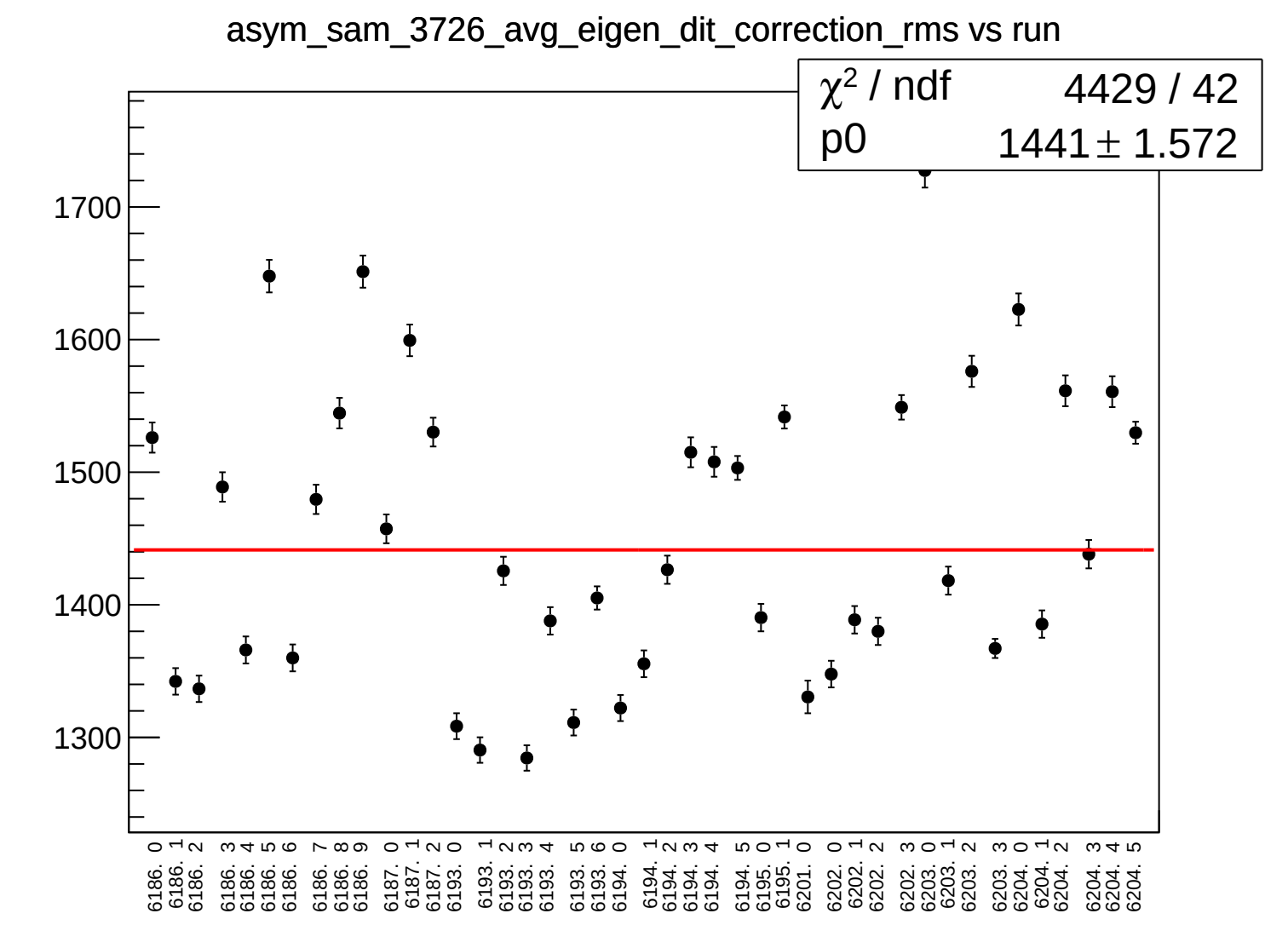

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 4429 / 42
p0 1441 ± 1.572
1700
1600
1500
1400
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

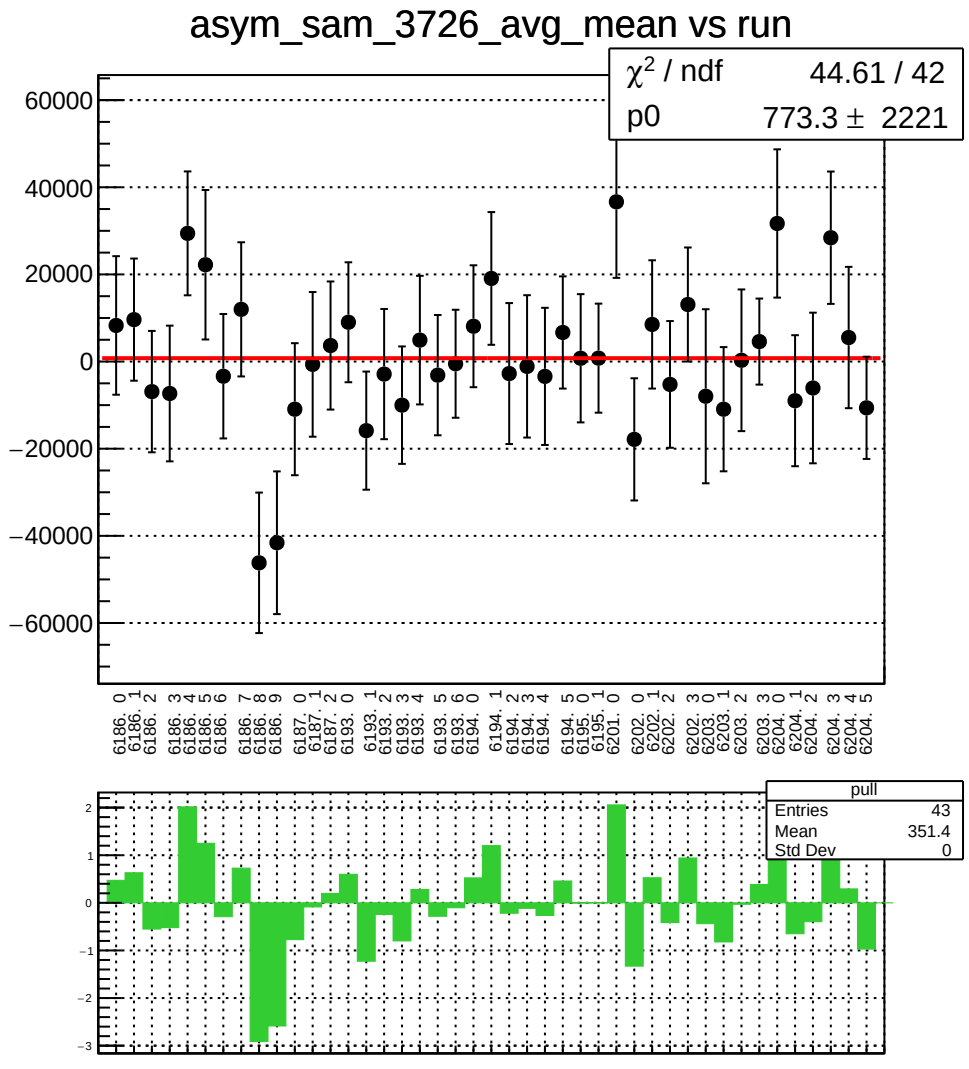

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 42.9 / 42
p0 −49.86 ± 141.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 11.17
Std Dev 7.369
2
1
0
−1
−2

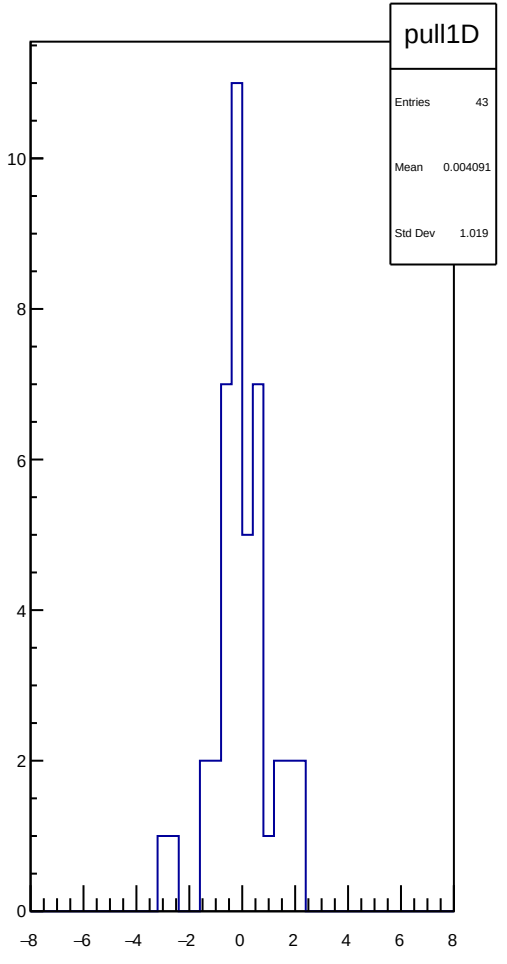

pull1D
Entries 43
Mean 0.075
Std Dev 0.9961
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

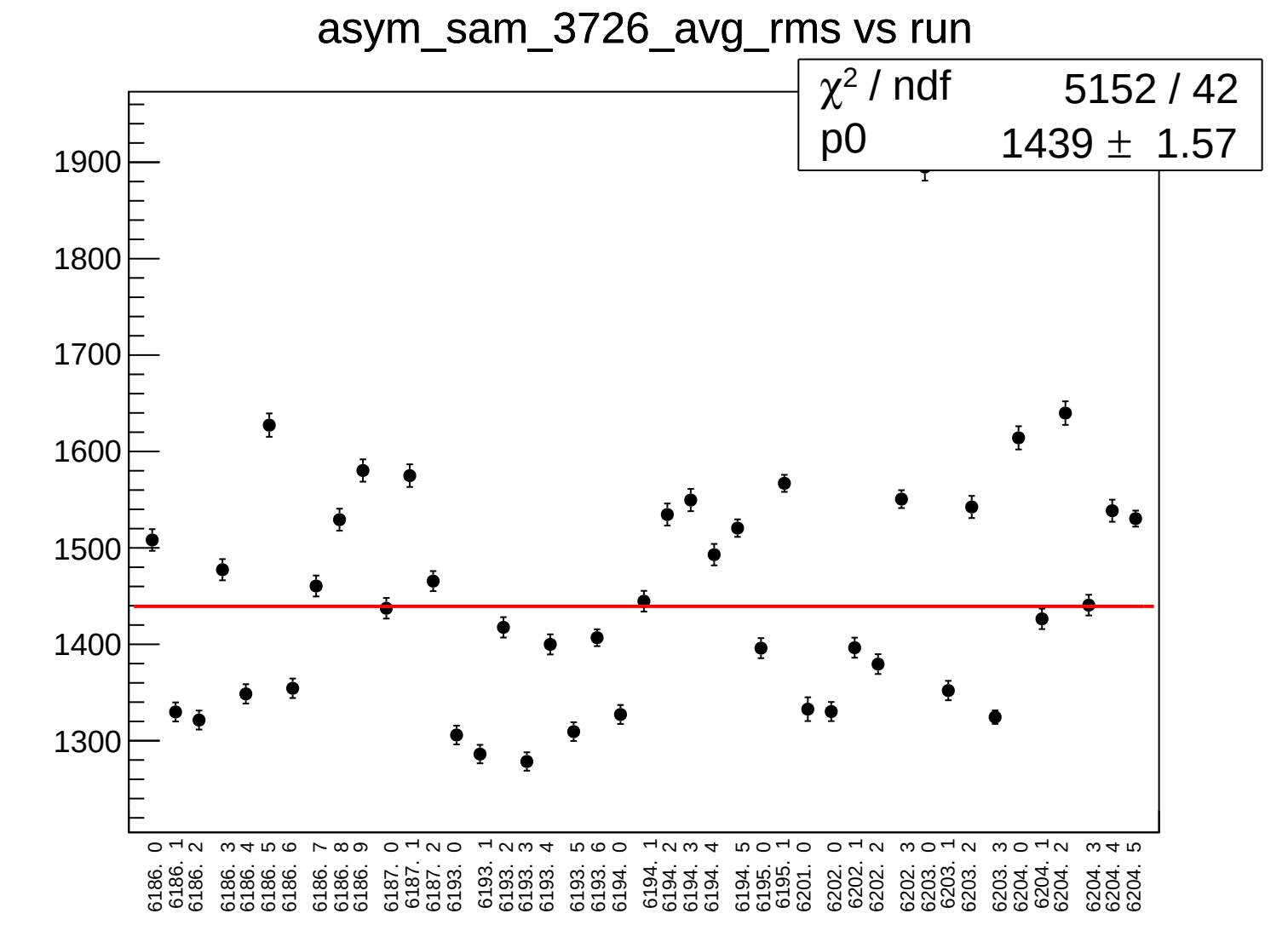

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.265e+04 / 42
p0 89.67 ± 0.1001
260
240
220
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

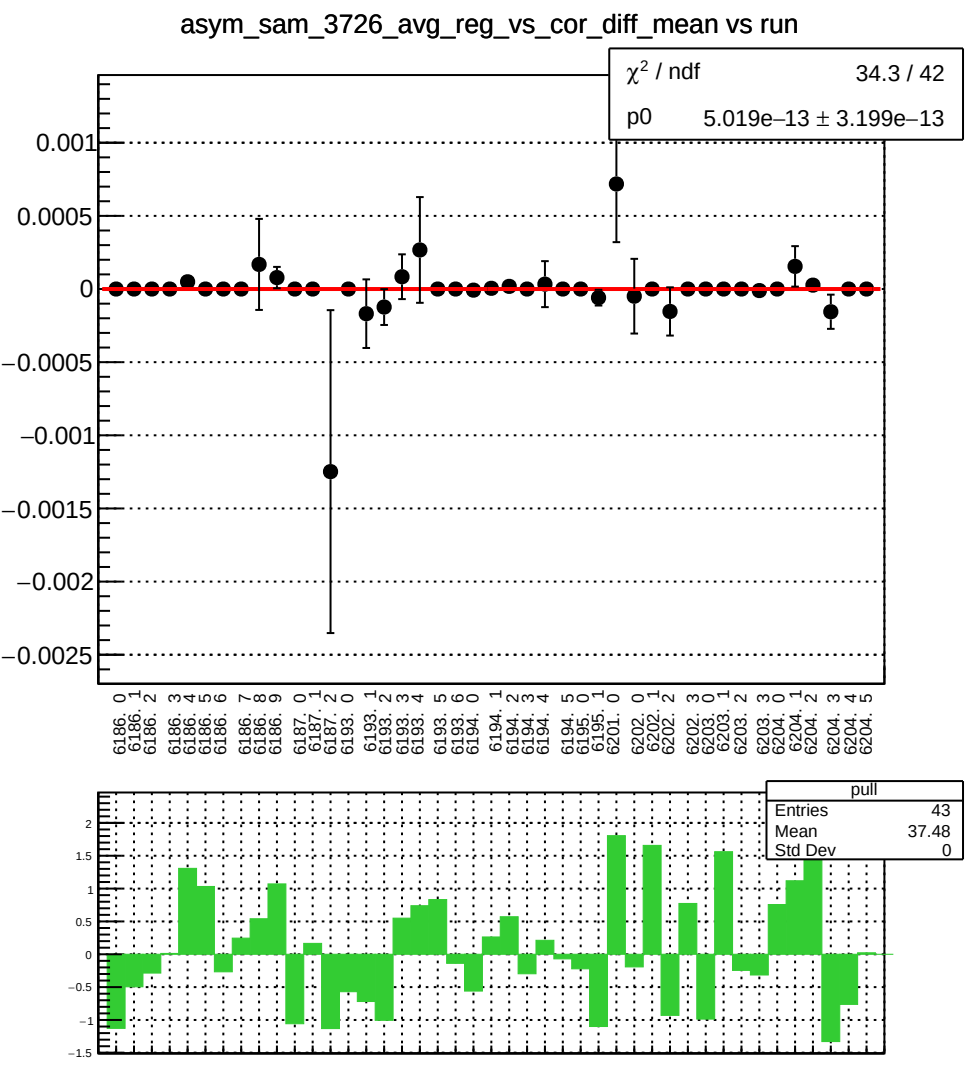

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 46.79 / 42
p0 −813.8 ± 2223
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −750.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.001738
Std Dev 1.043
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

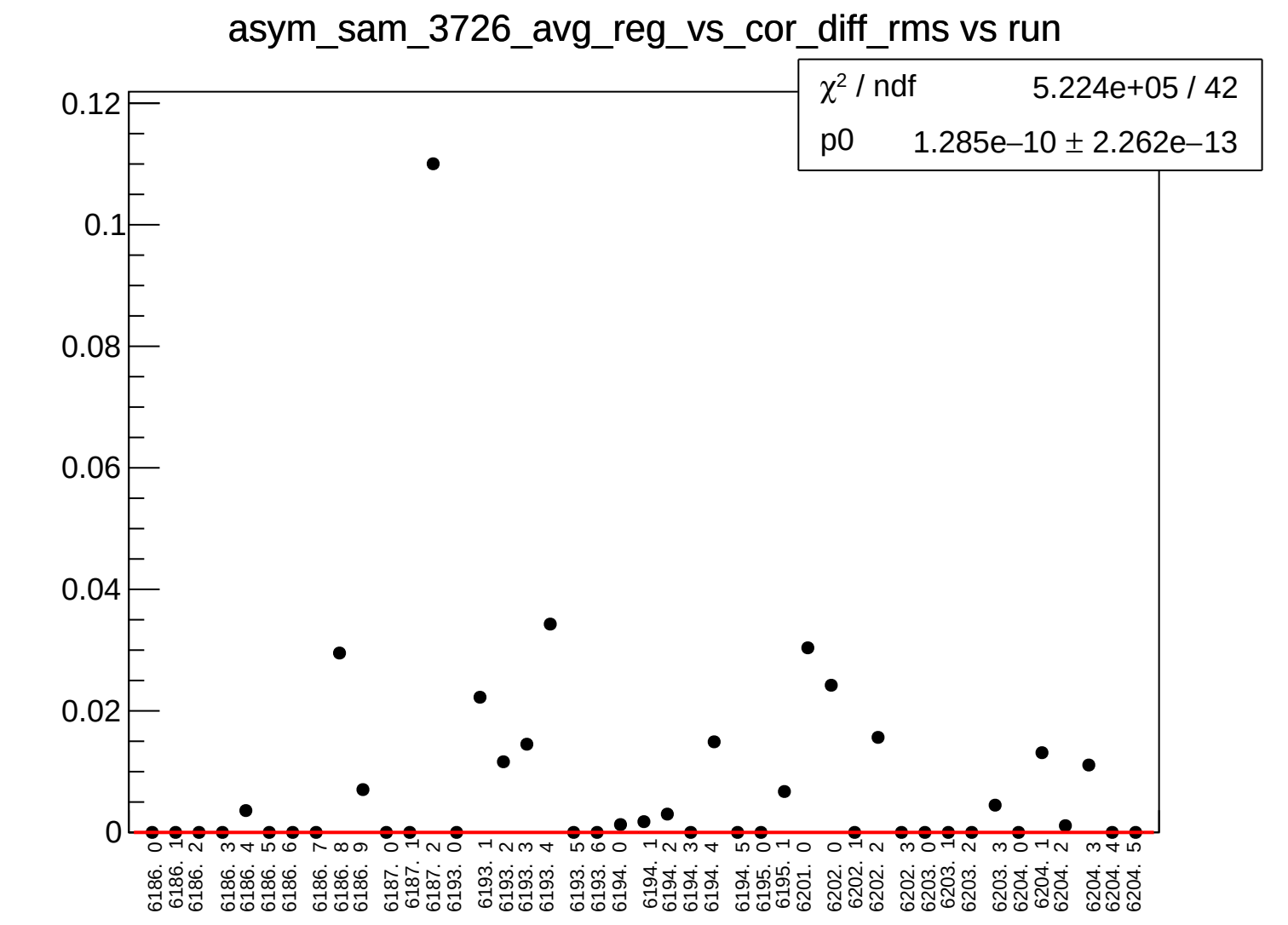

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 4429 / 42
p0 1441 ± 1.572
1700
1600
1500
1400
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

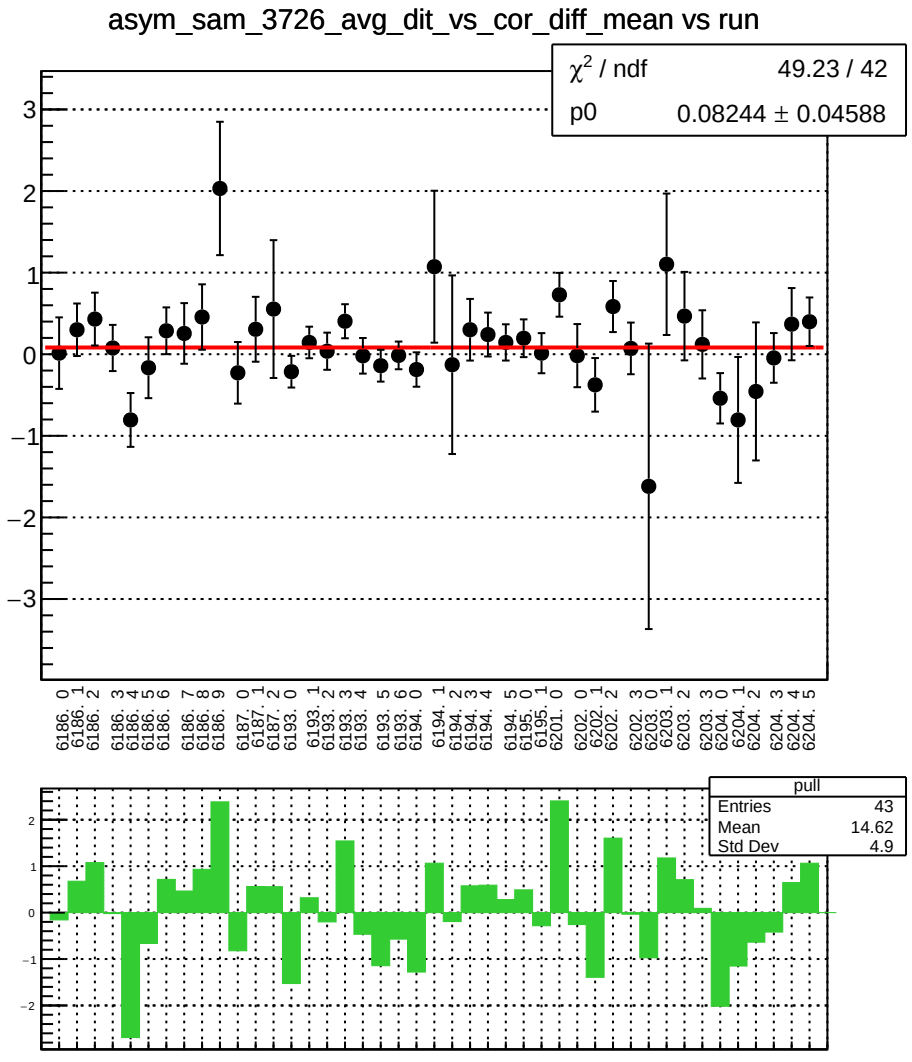

asym_sam_3726_avg_mean vs run
χ² / ndf 44.61 / 42
p0 773.3 ± 2221
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 351.4
Std Dev 0
2
1
0
−1
−2
−3

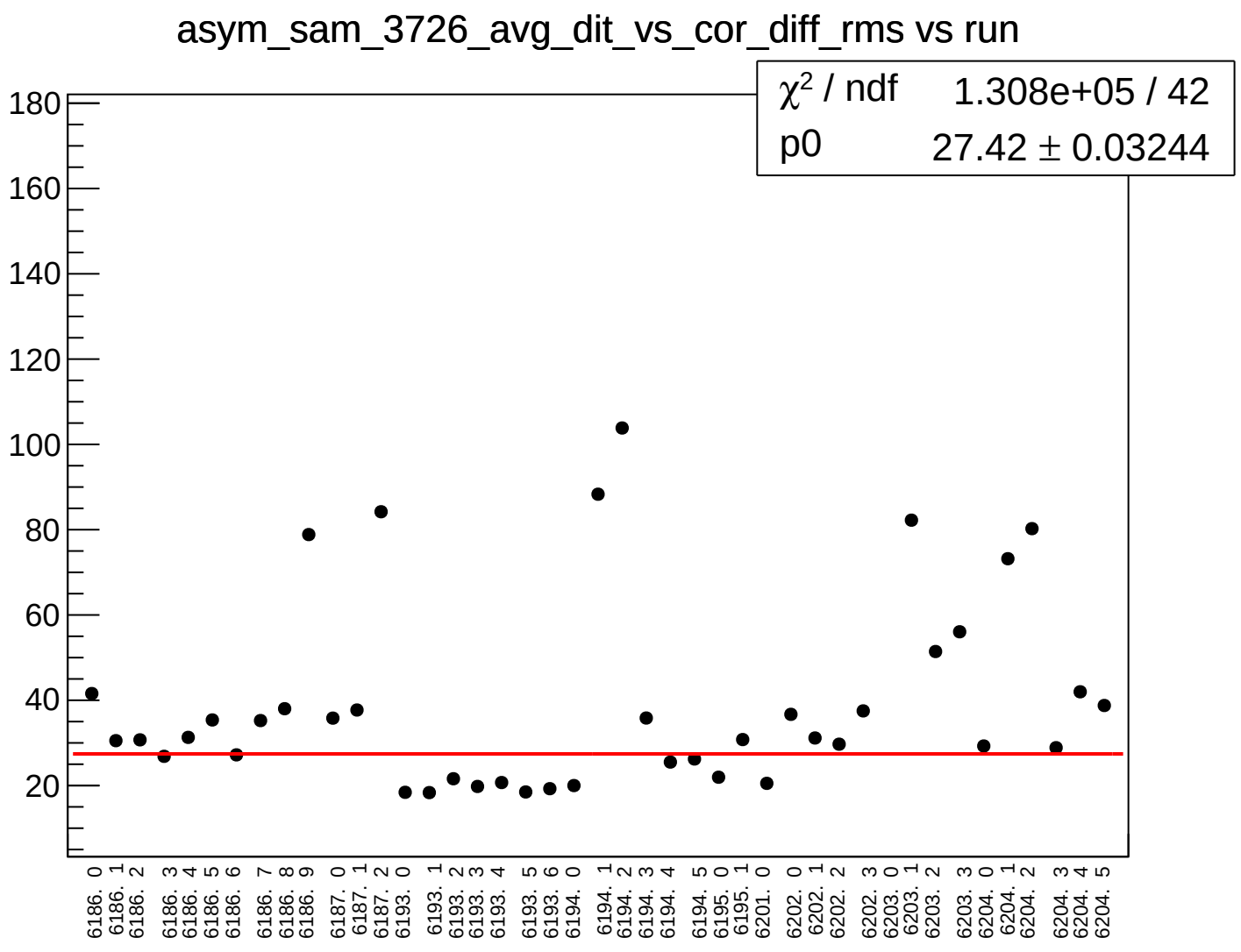

pull1D
Entries 43
Mean 0.004091
Std Dev 1.019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

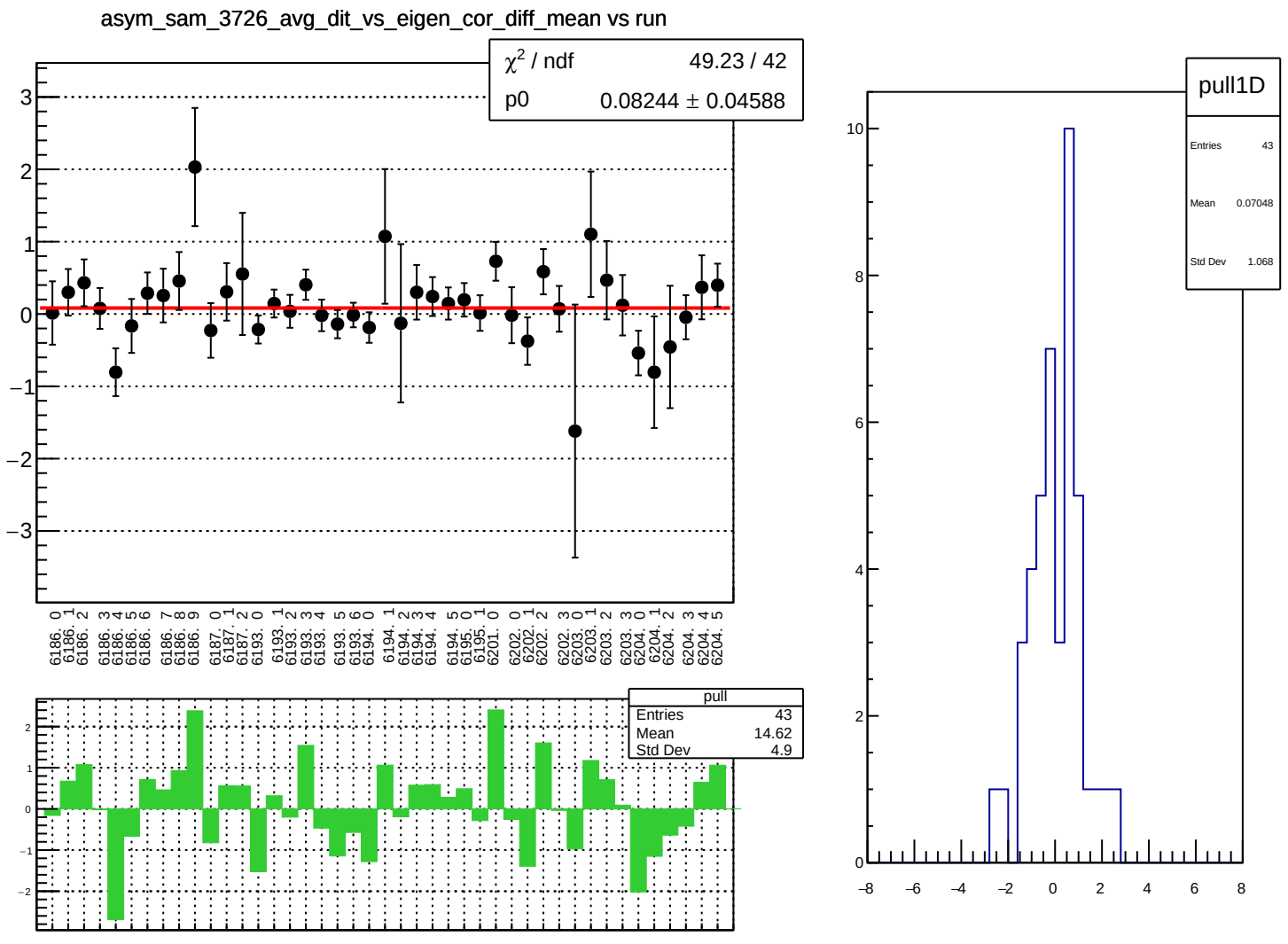

asym_sam_3726_avg_rms vs run
χ² / ndf 5152 / 42
p0 1439 ± 1.57
1900
1800
1700
1600
1500
1400
1300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

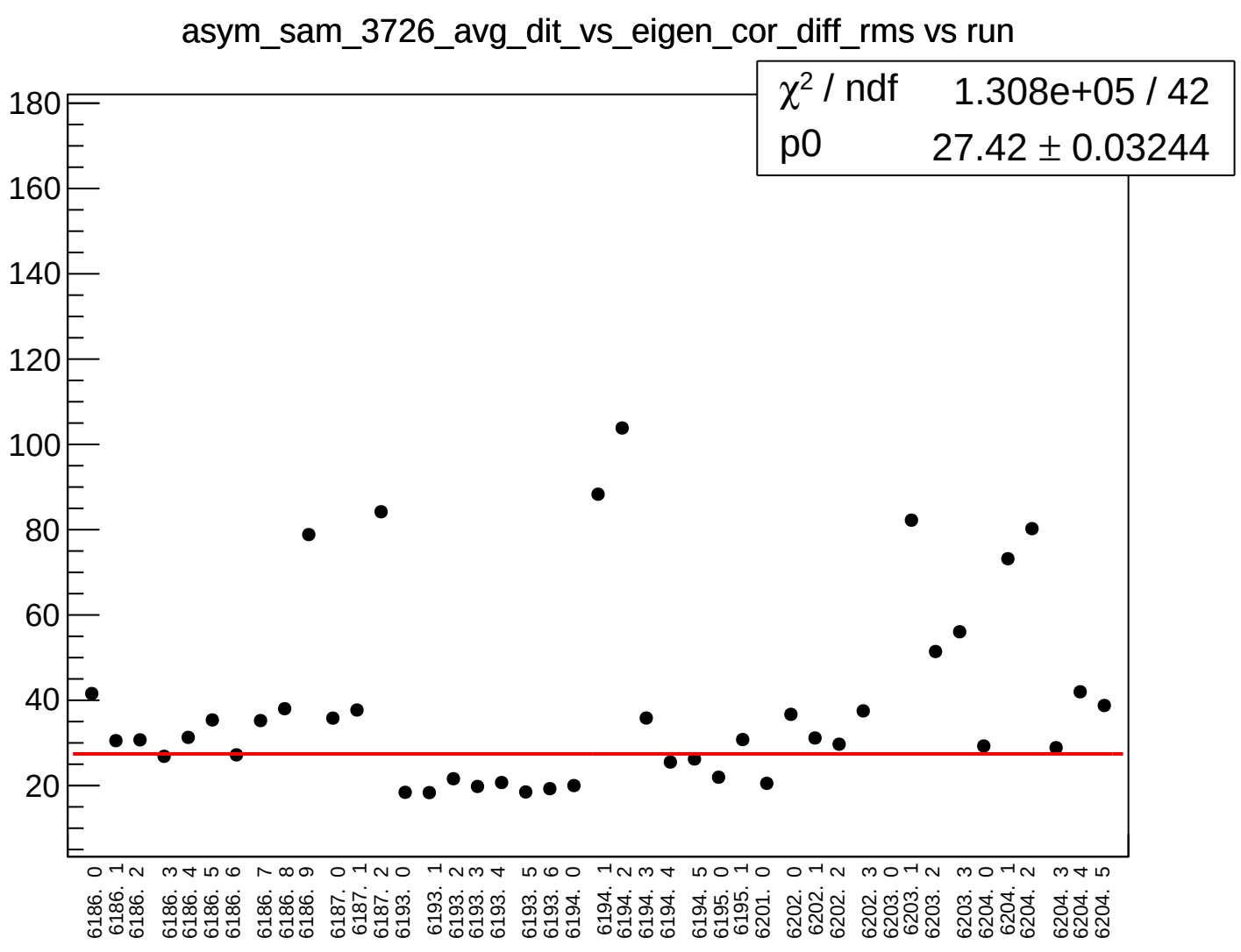

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 34.3 / 42
p0 5.019e−13 ± 3.199e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 37.48
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.08634
Std Dev 0.889
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

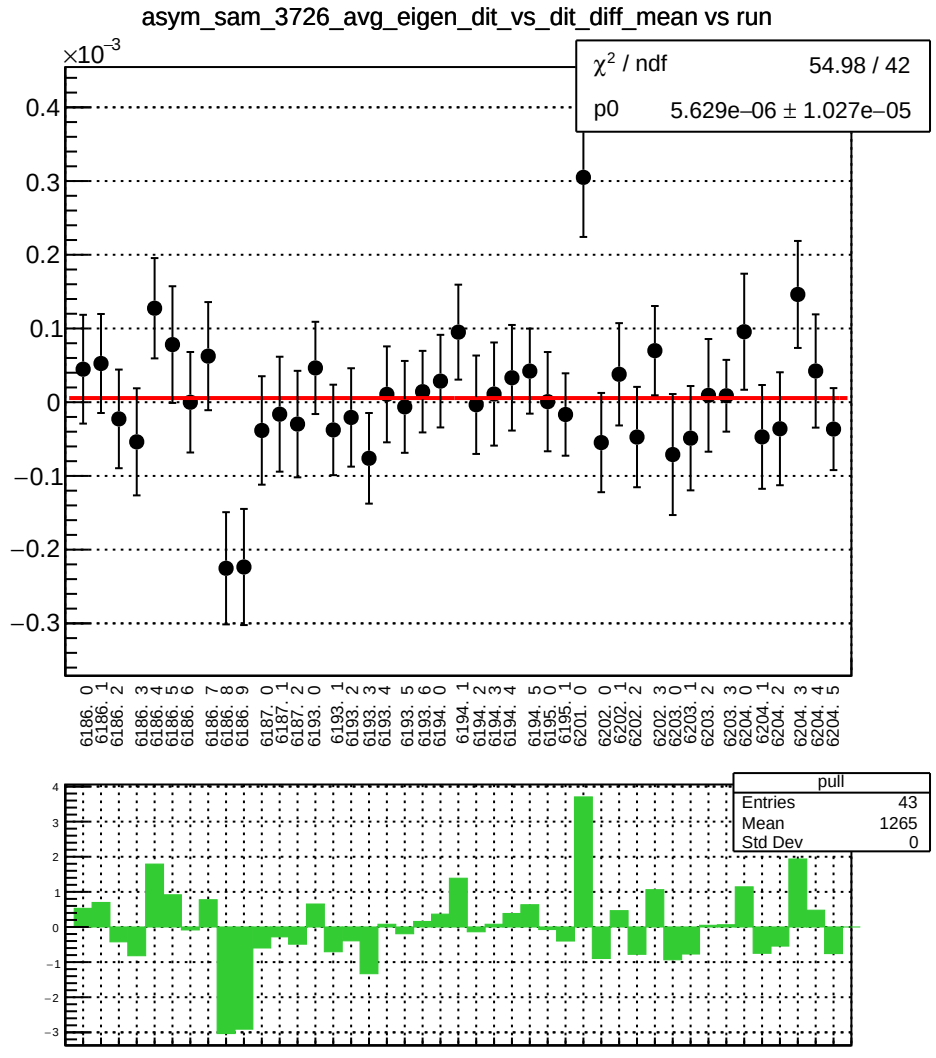

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.224e+05 / 42
p0 1.285e−10 ± 2.262e−13
0.12
0.1
0.08
0.06
0.04
0.02
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

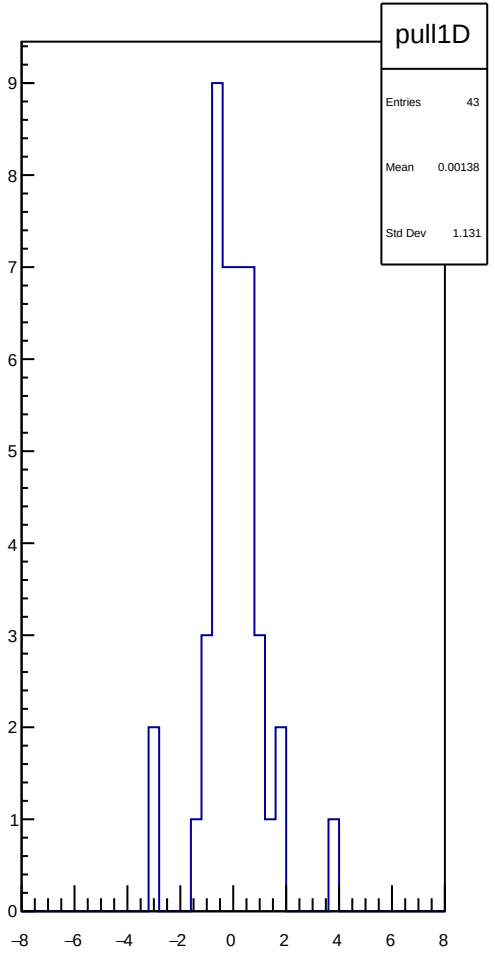

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 49.23 / 42
p0 0.08244 ± 0.04588
pull
Entries 43
Mean 14.62
Std Dev 4.9
pull1D
Entries 43
Mean 0.07048
Std Dev 1.068

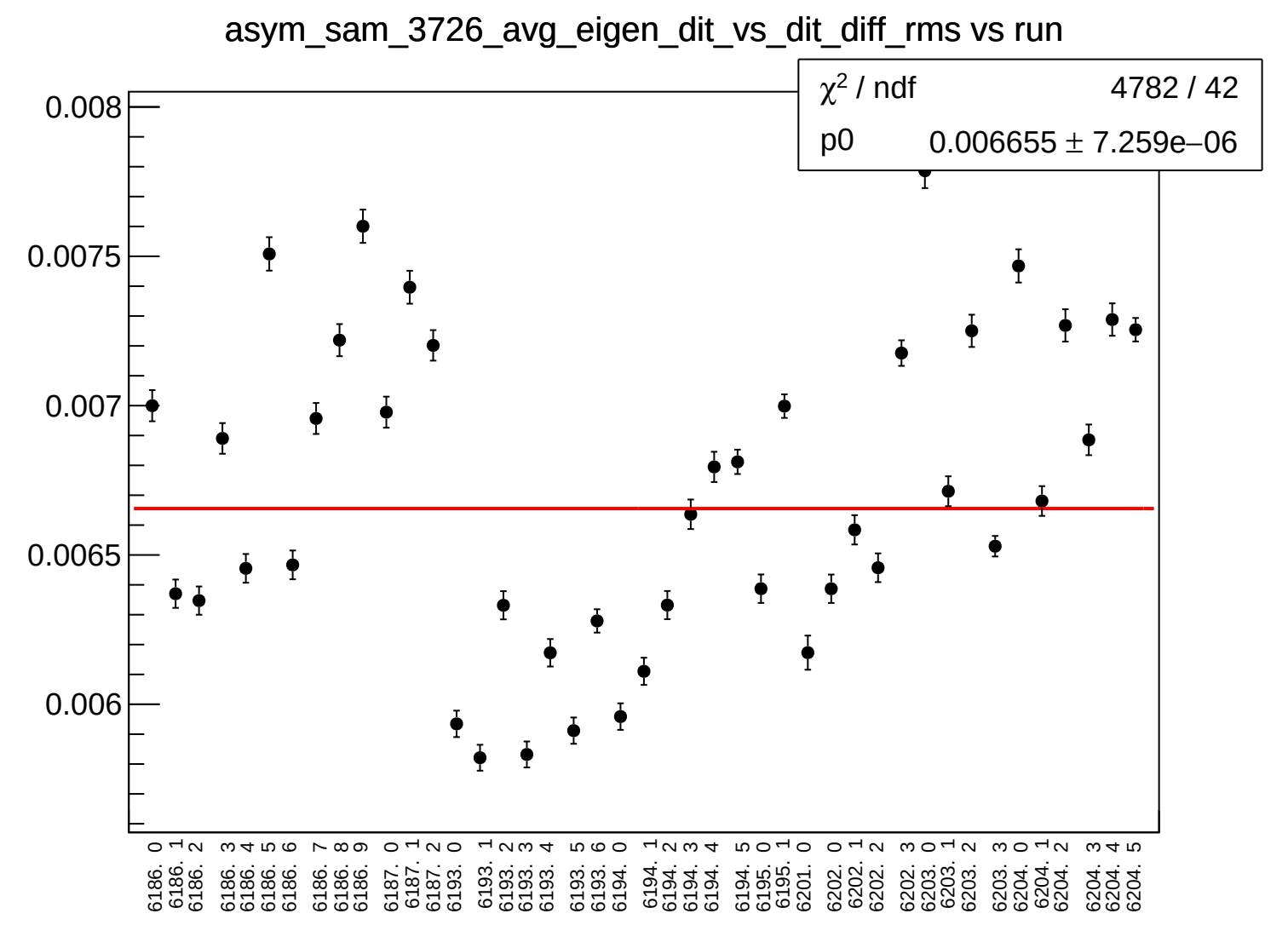

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.308e+05 / 42
p0 27.42 ± 0.03244
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

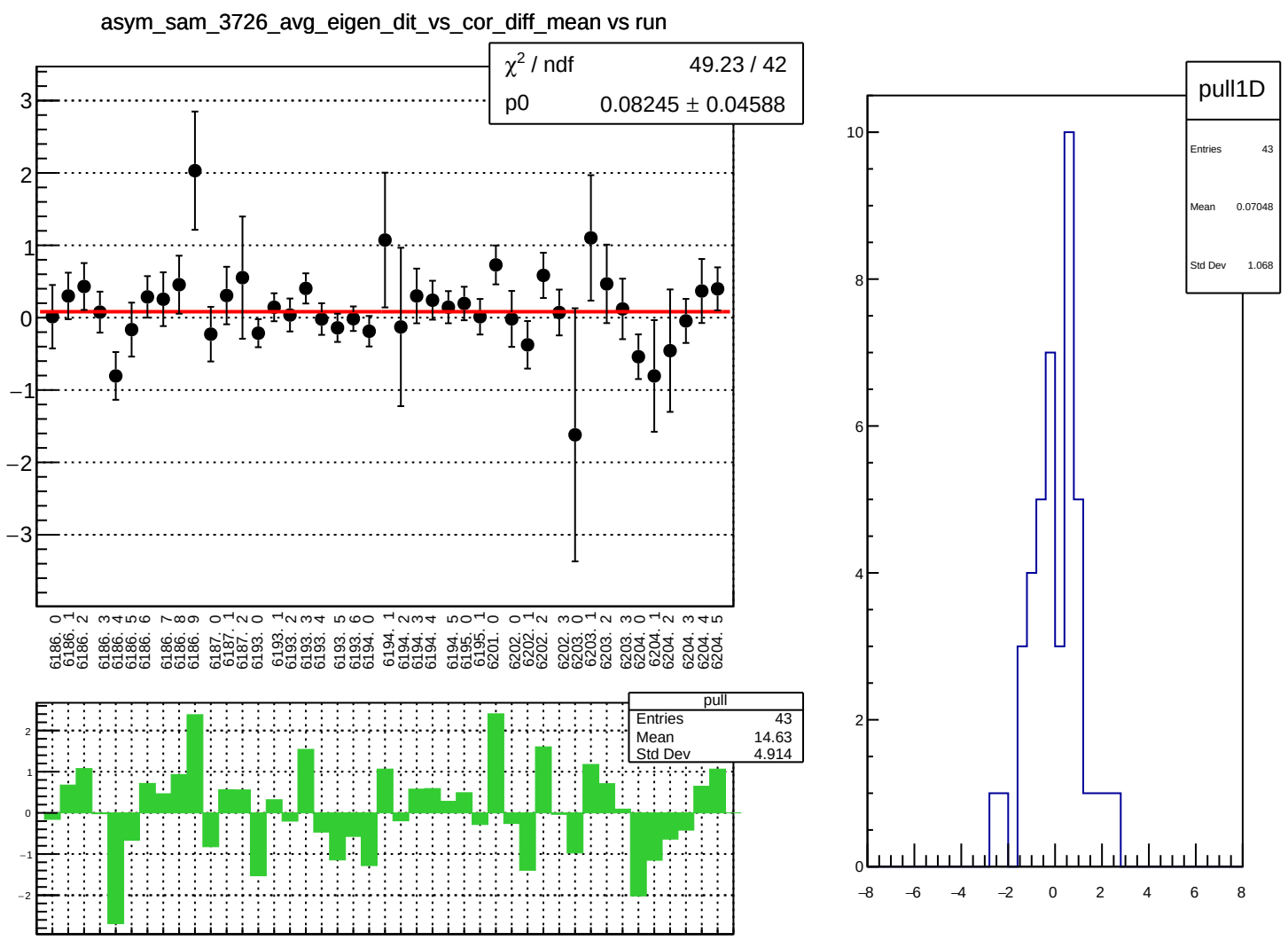

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.23 / 42
p0 0.08244 ± 0.04588
pull
Entries 43
Mean 14.62
Std Dev 4.9
pull1D
Entries 43
Mean 0.07048
Std Dev 1.068

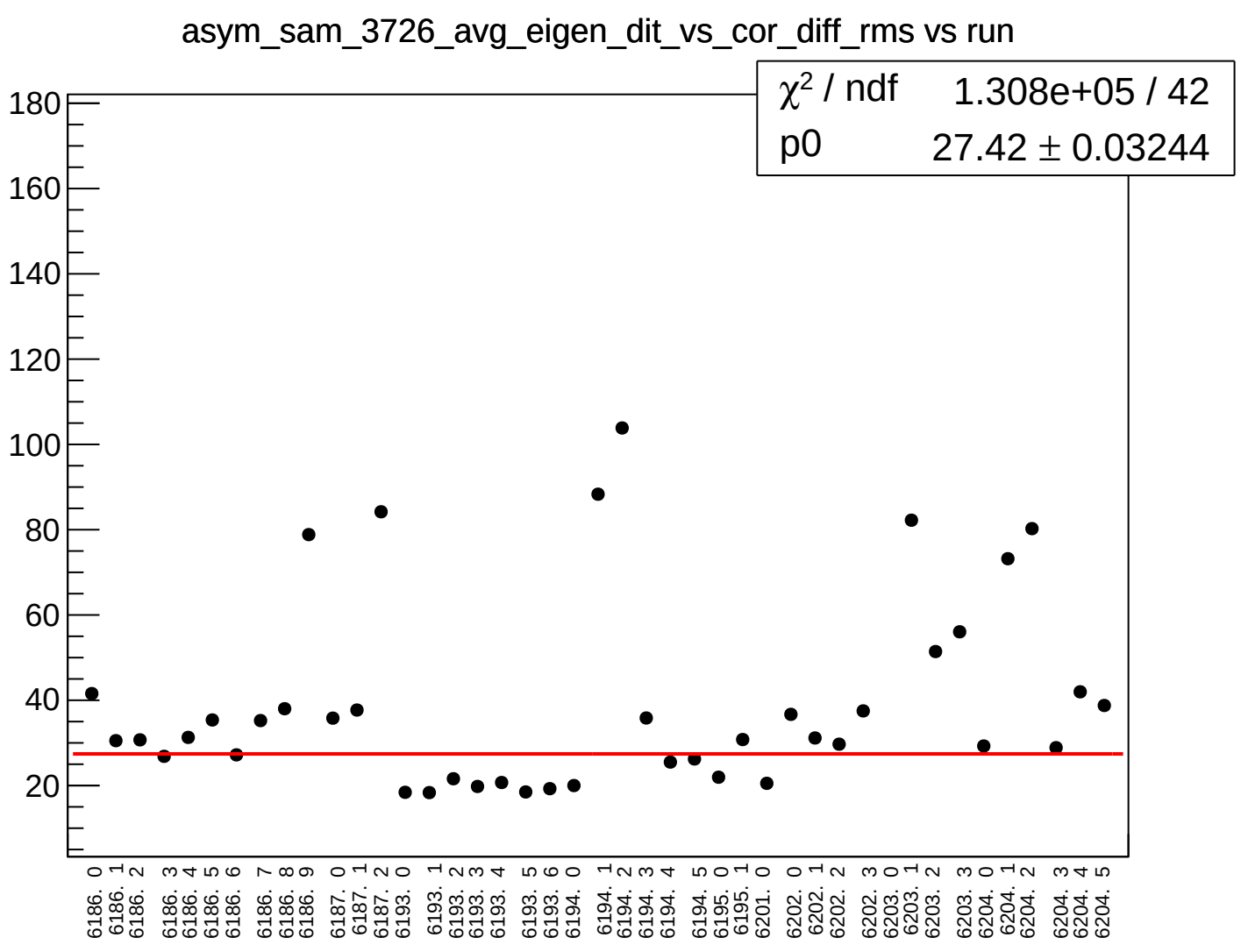

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.308e+05 / 42
p0 27.42 ± 0.03244
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

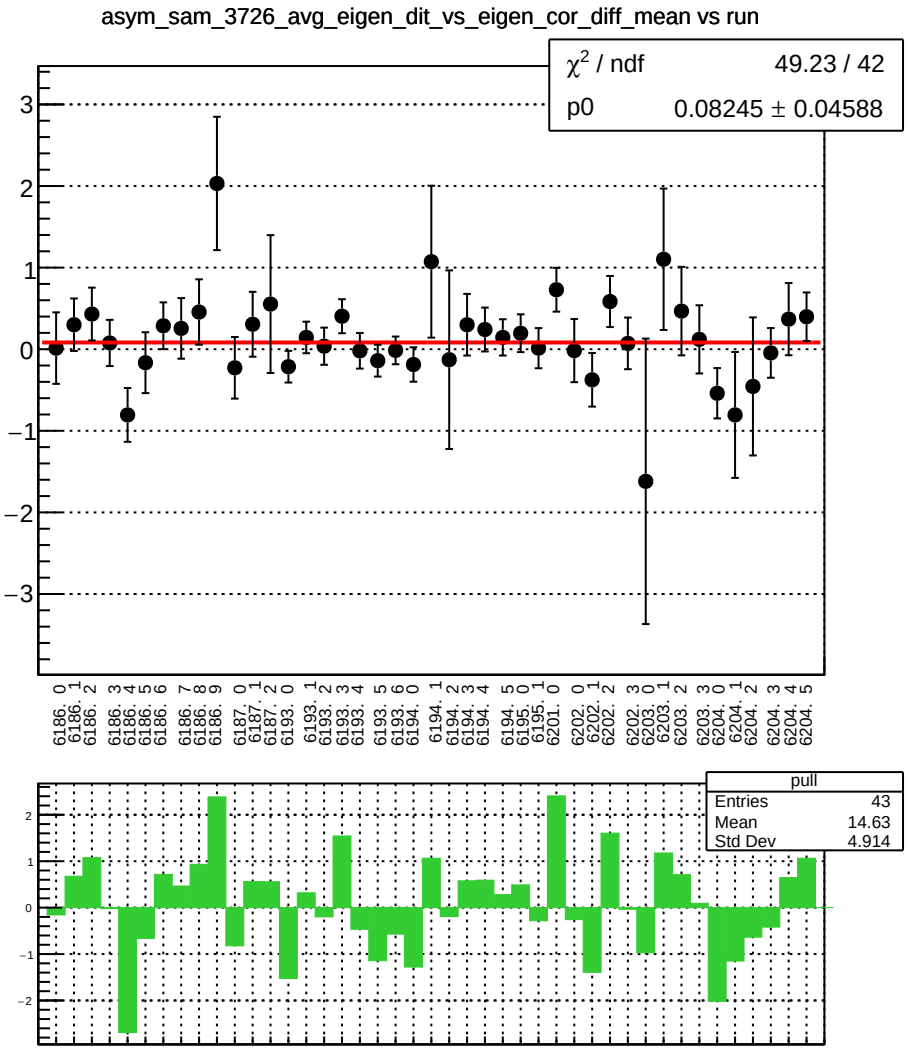

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 54.98 / 42
p0 5.629e−06 ± 1.027e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1265
Std Dev 0
4
3
2
1
0
−1
−2
−3

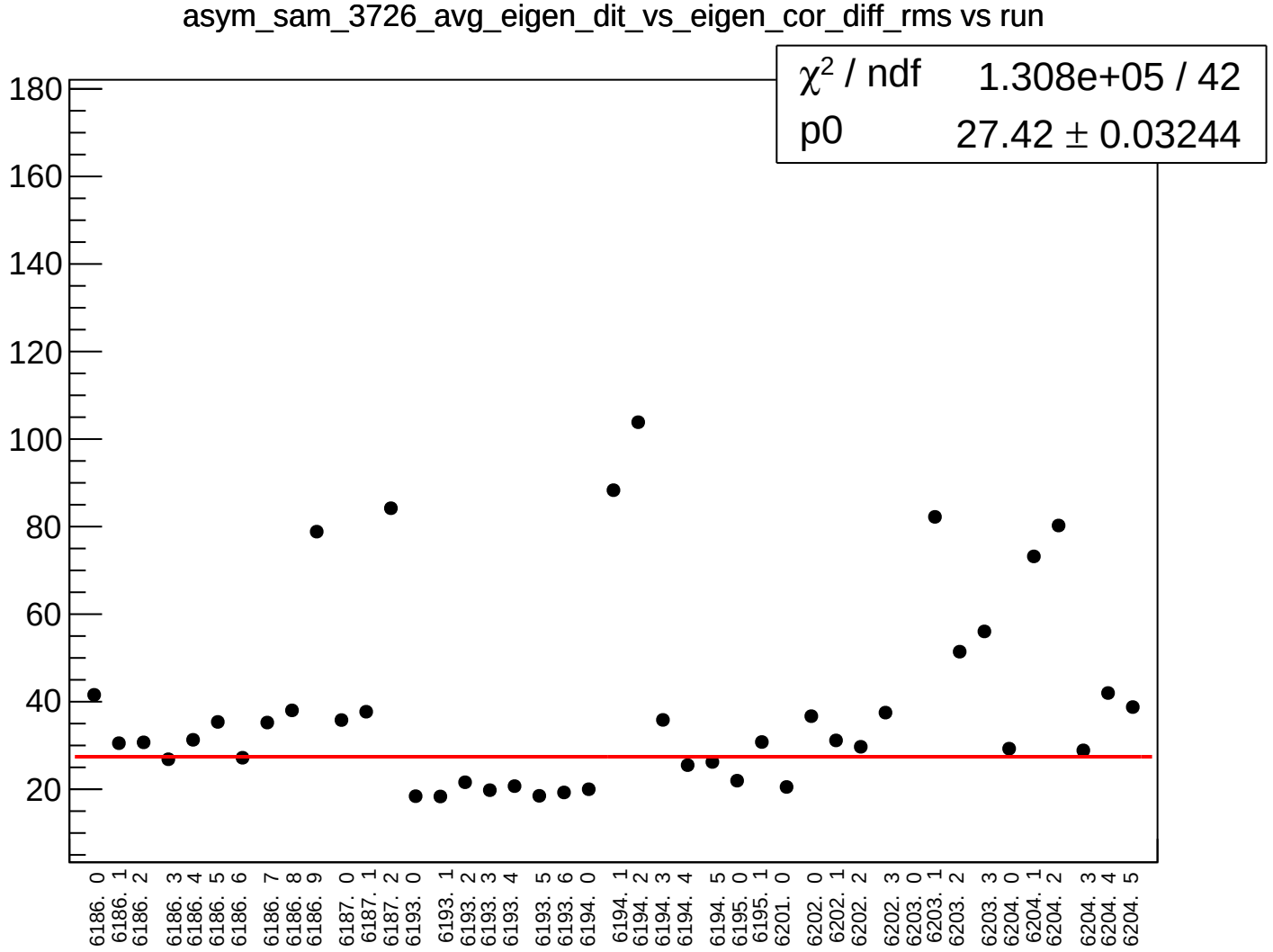

pull1D
Entries 43
Mean 0.00138
Std Dev 1.131
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

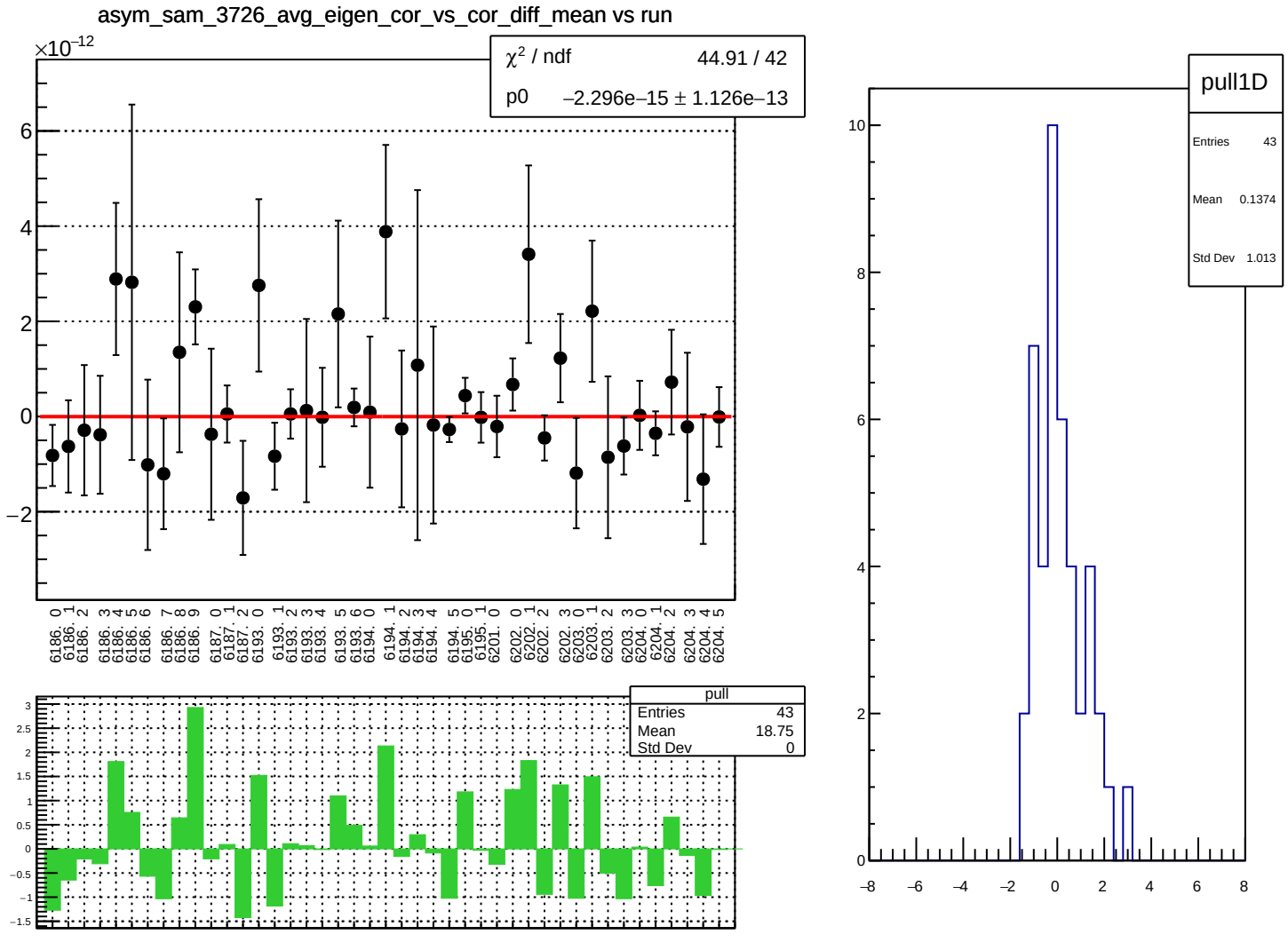

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4782 / 42
p0 0.006655 ± 7.259e−06
0.008
0.0075
0.007
0.0065
0.006
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

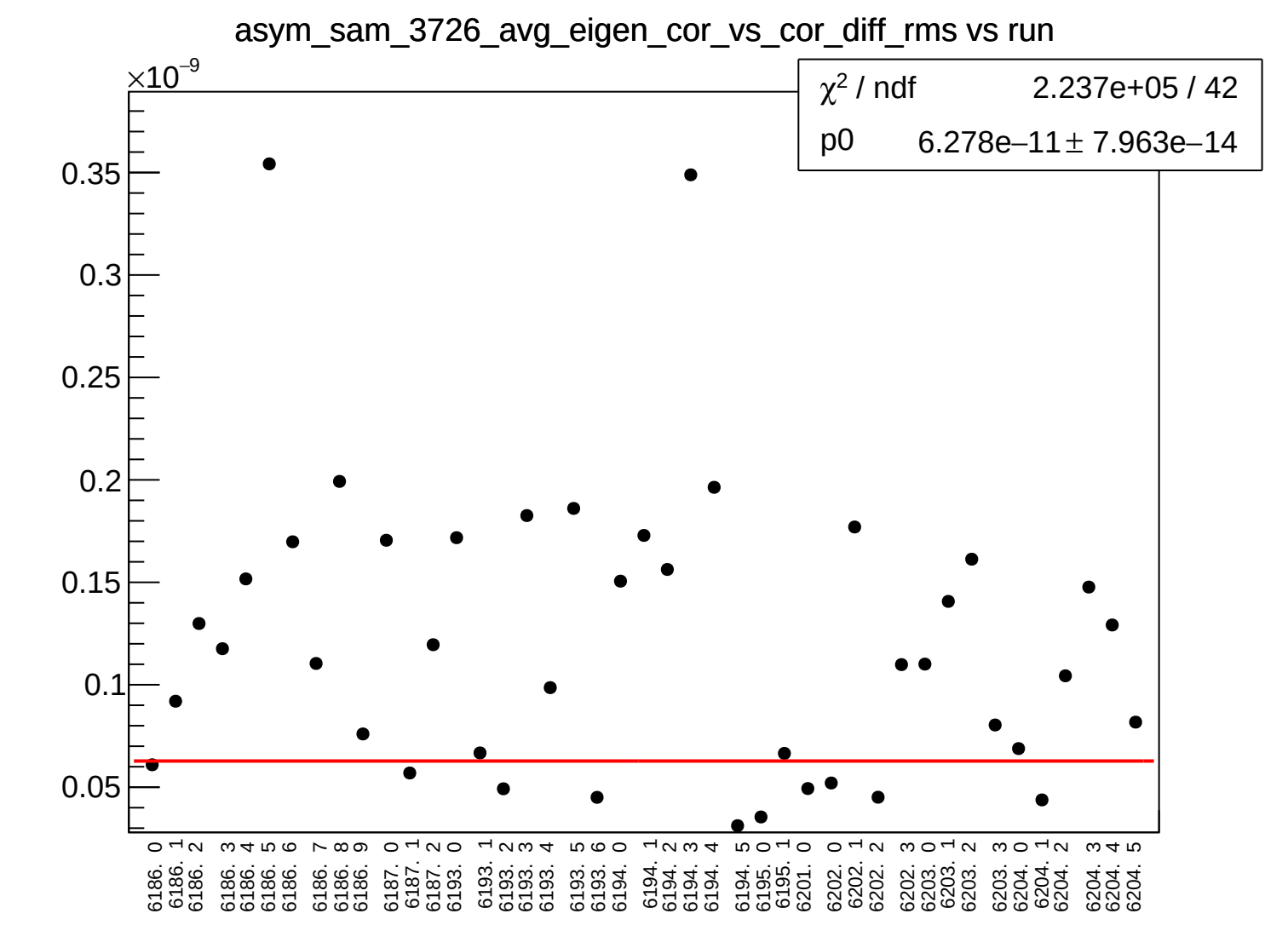

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.23 / 42
p0 0.08245 ± 0.04588
pull
Entries 43
Mean 14.63
Std Dev 4.914
pull1D
Entries 43
Mean 0.07048
Std Dev 1.068

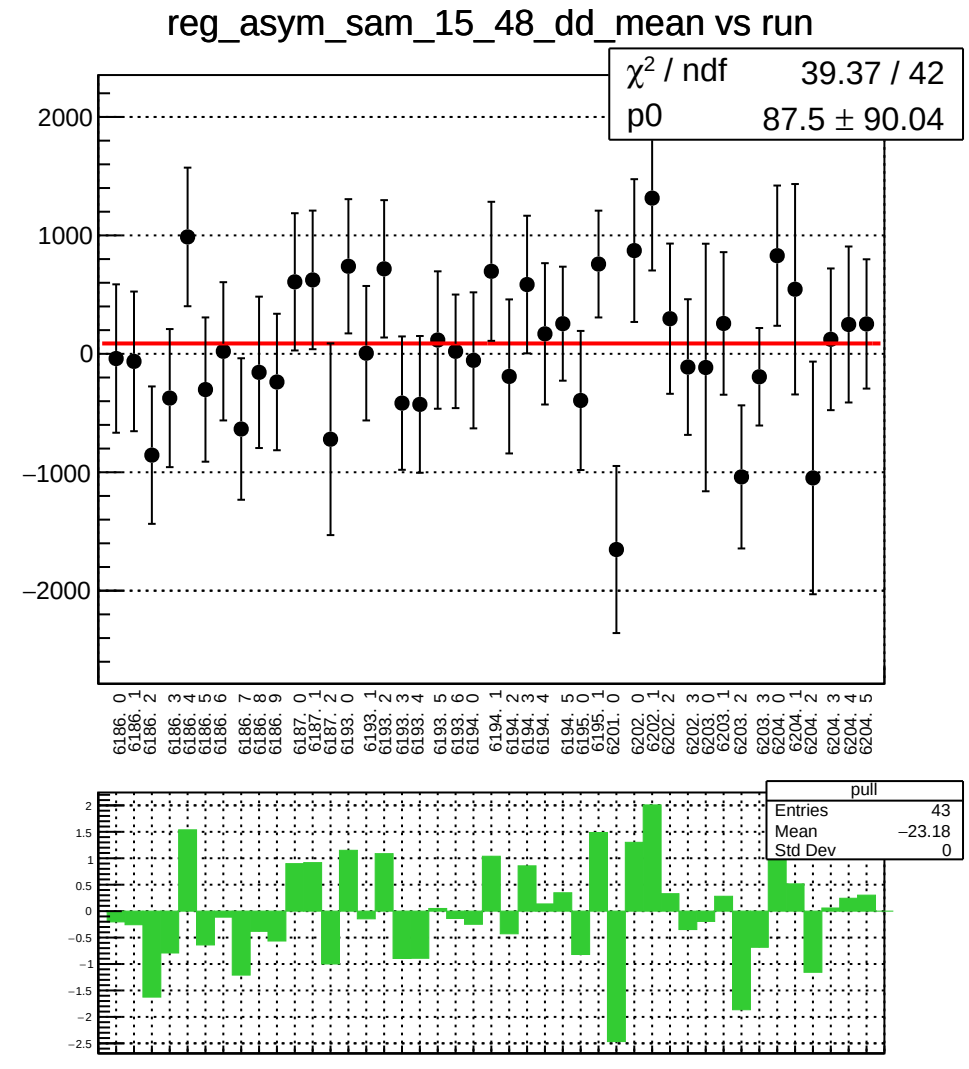

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.308e+05 / 42
p0 27.42 ± 0.03244
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

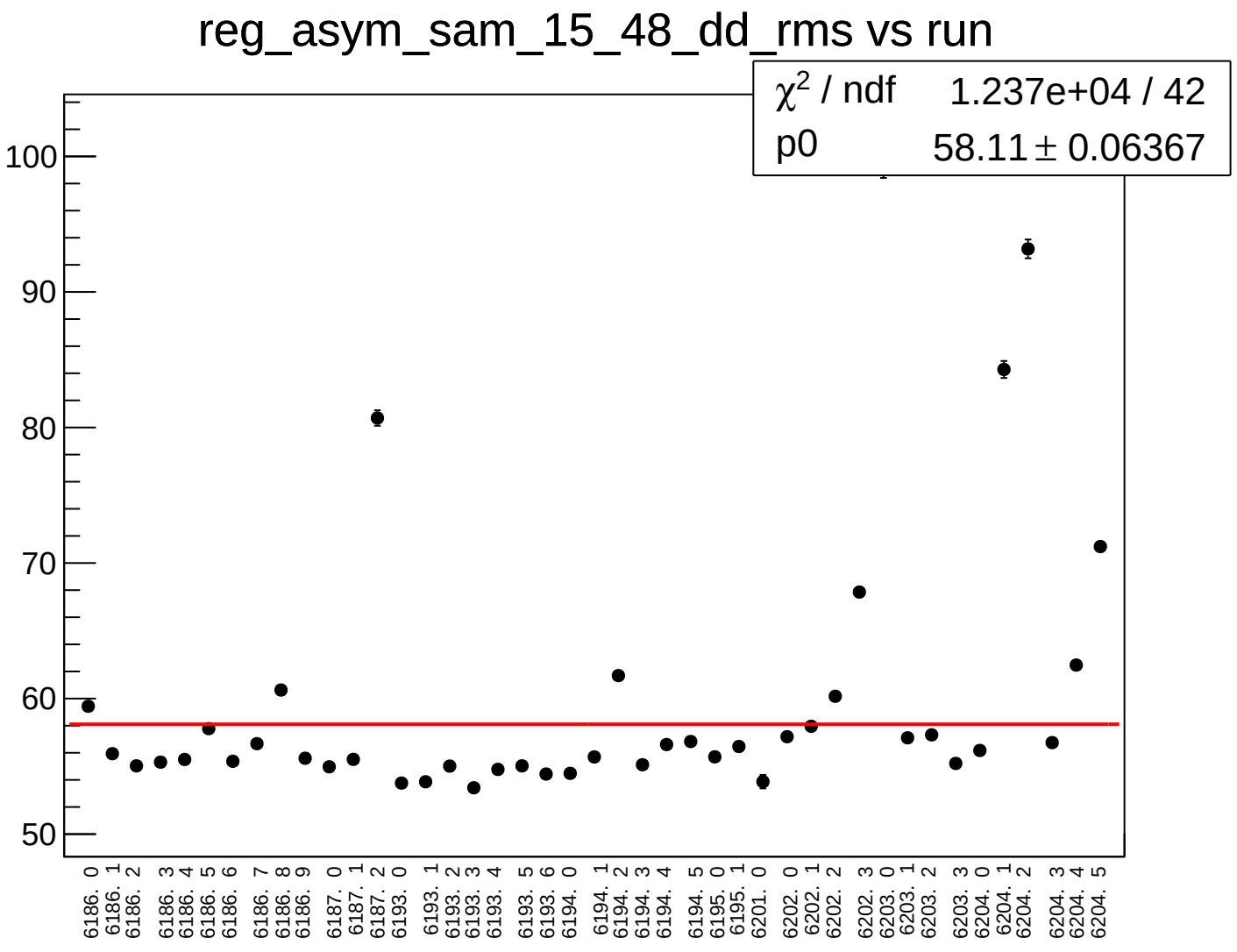

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.23 / 42
p0 0.08245 ± 0.04588
pull
Entries 43
Mean 14.63
Std Dev 4.914
pull1D
Entries 43
Mean 0.07048
Std Dev 1.068

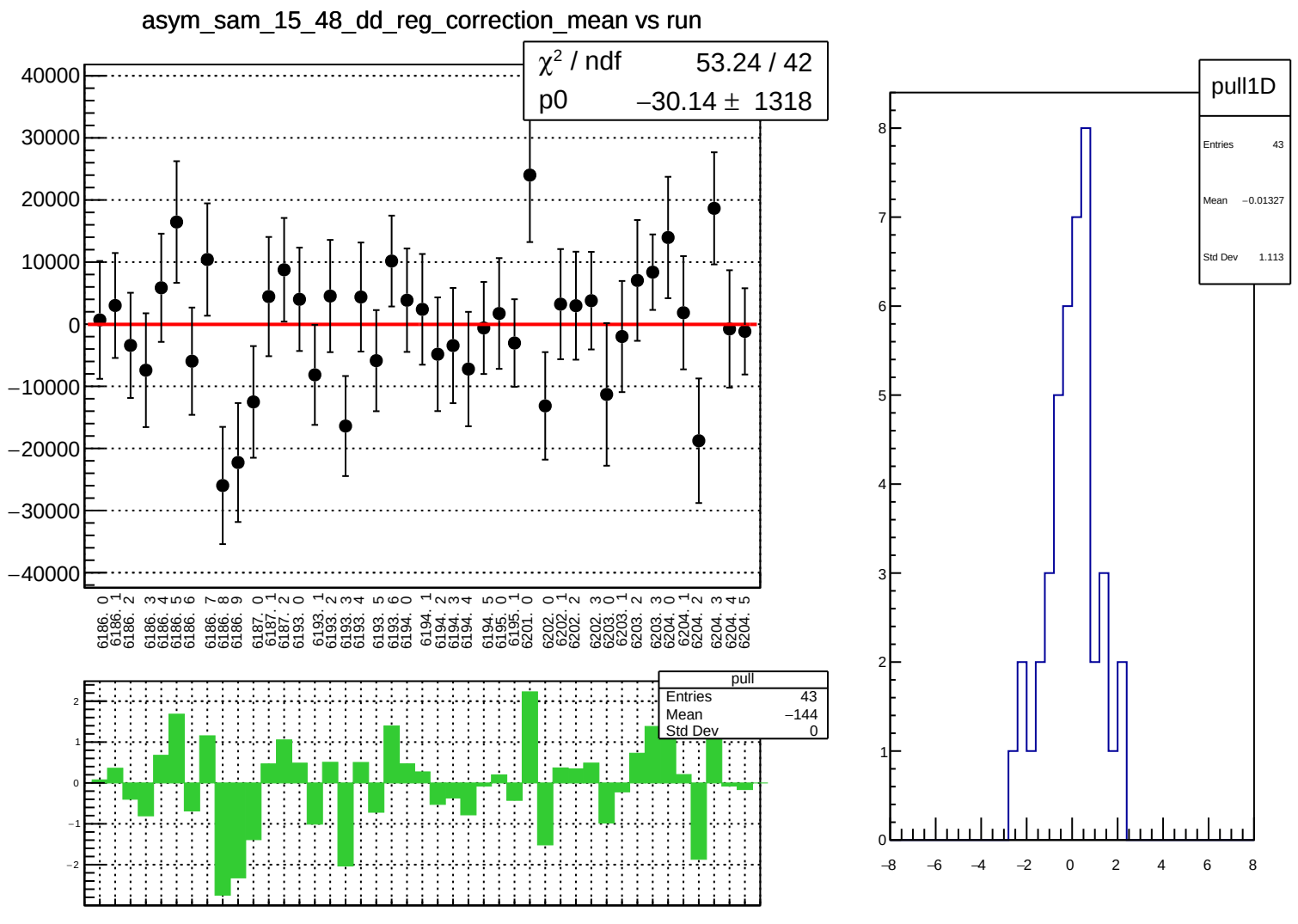

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.308e+05 / 42
p0 27.42 ± 0.03244
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

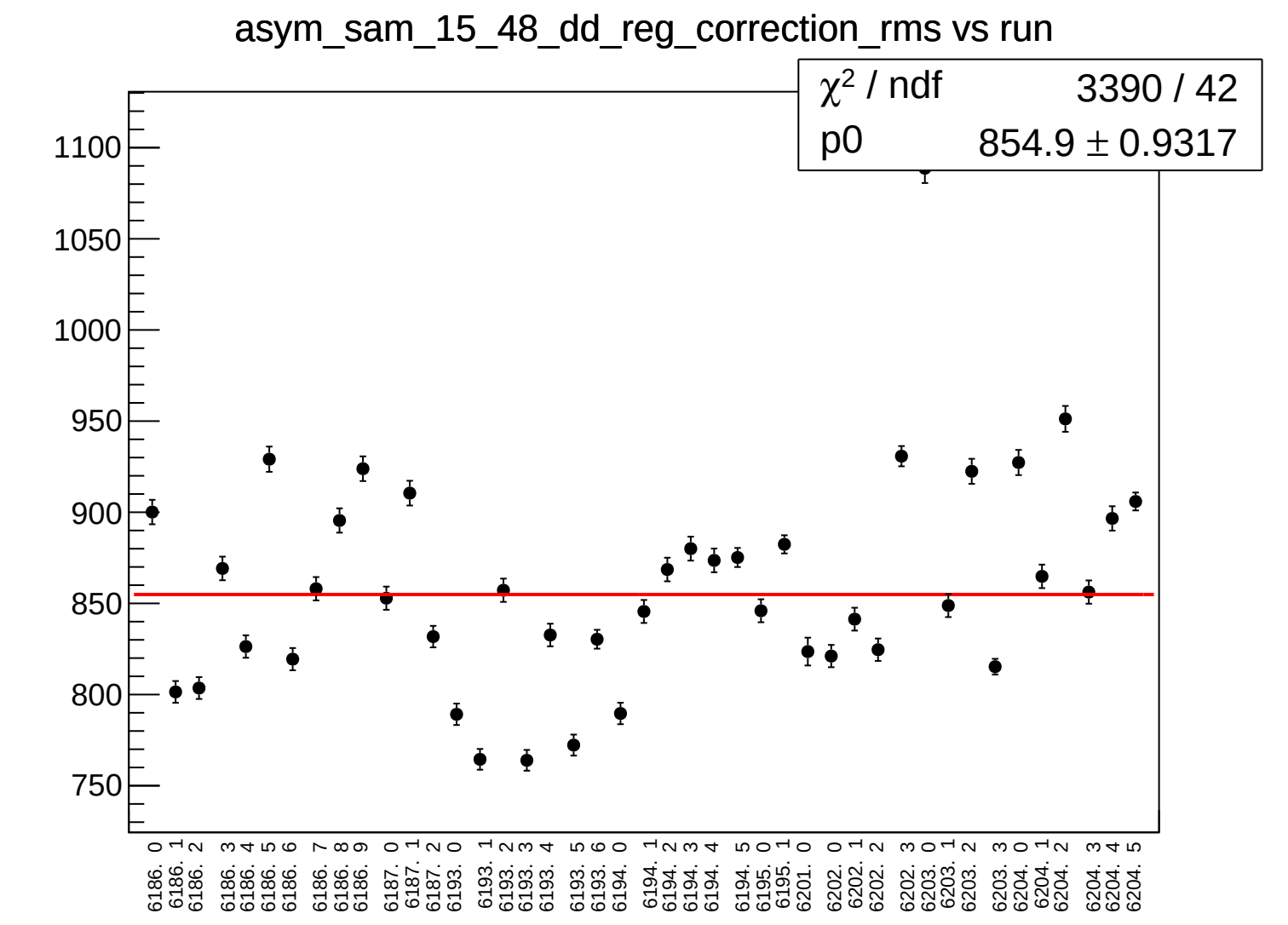

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 44.91 / 42
p0 −2.296e−15 ± 1.126e−13
6
4
2
0
−2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 18.75
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.1374
Std Dev 1.013
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

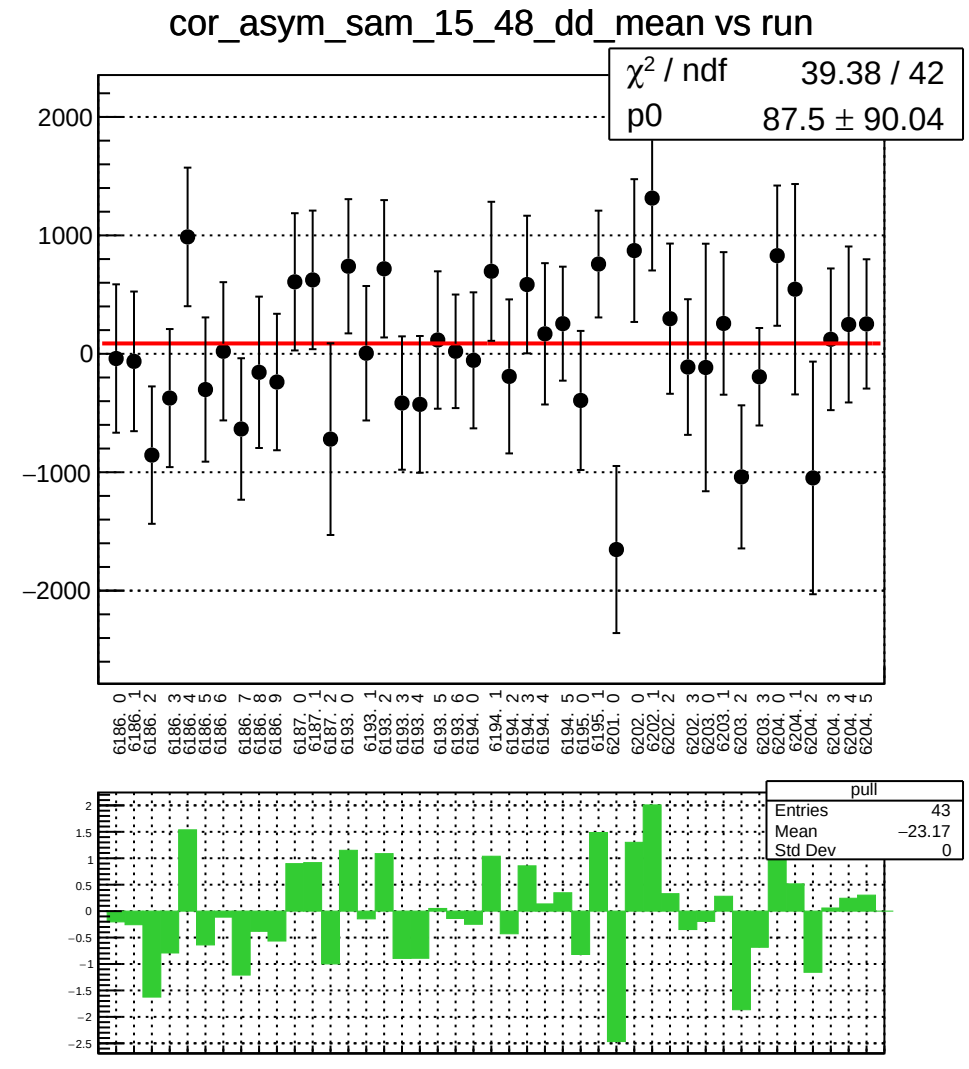

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.237e+05 / 42
p0 6.278e−11 ± 7.963e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

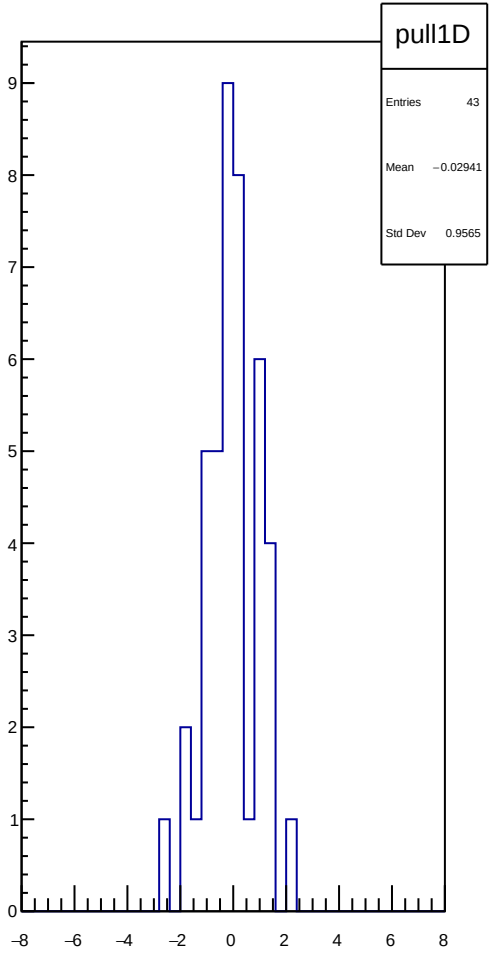

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 39.37 / 42
p0 87.5 ± 90.04
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −23.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.02941
Std Dev 0.9565
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

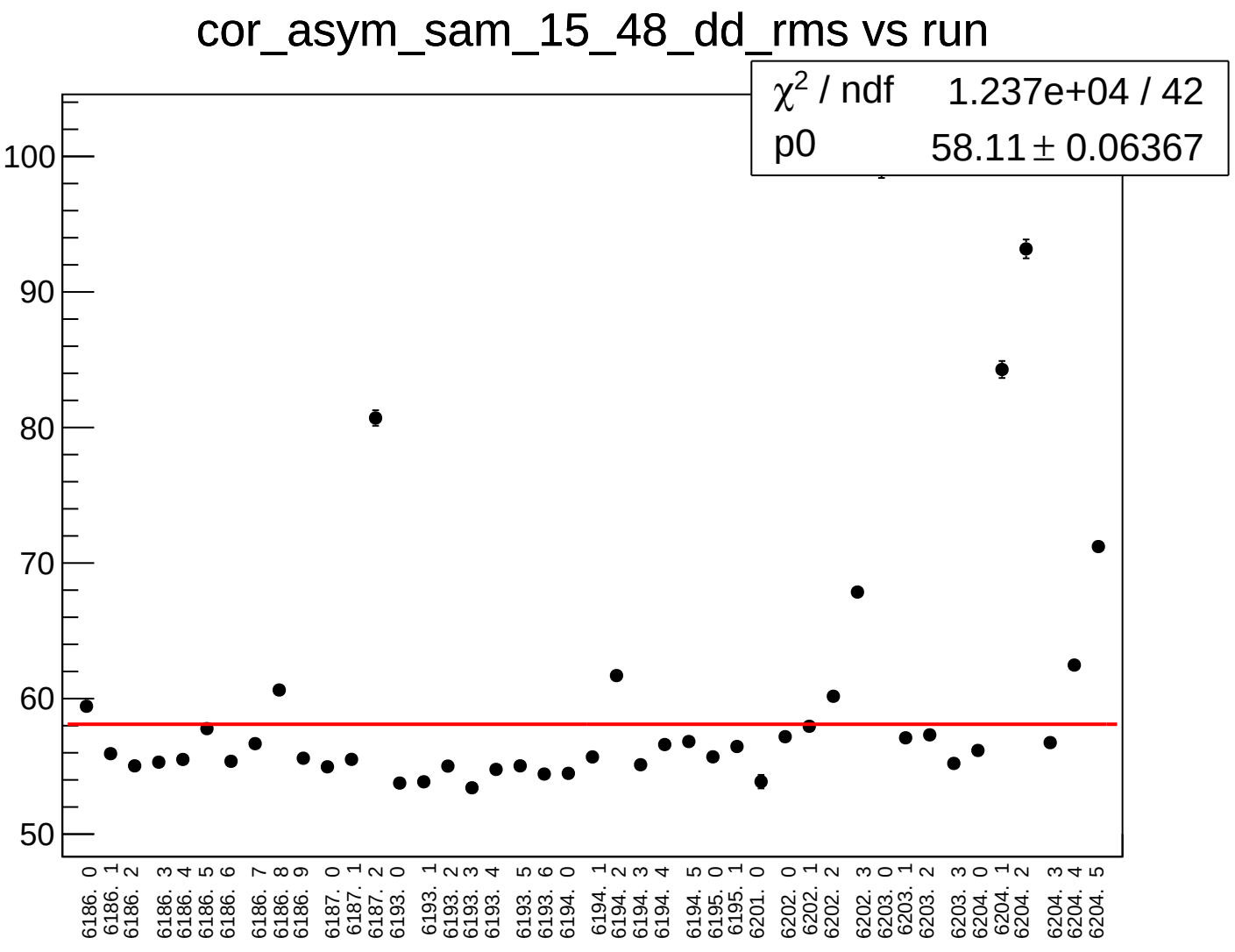

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.237e+04 / 42
p0 58.11 ± 0.06367
100
90
80
70
60
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

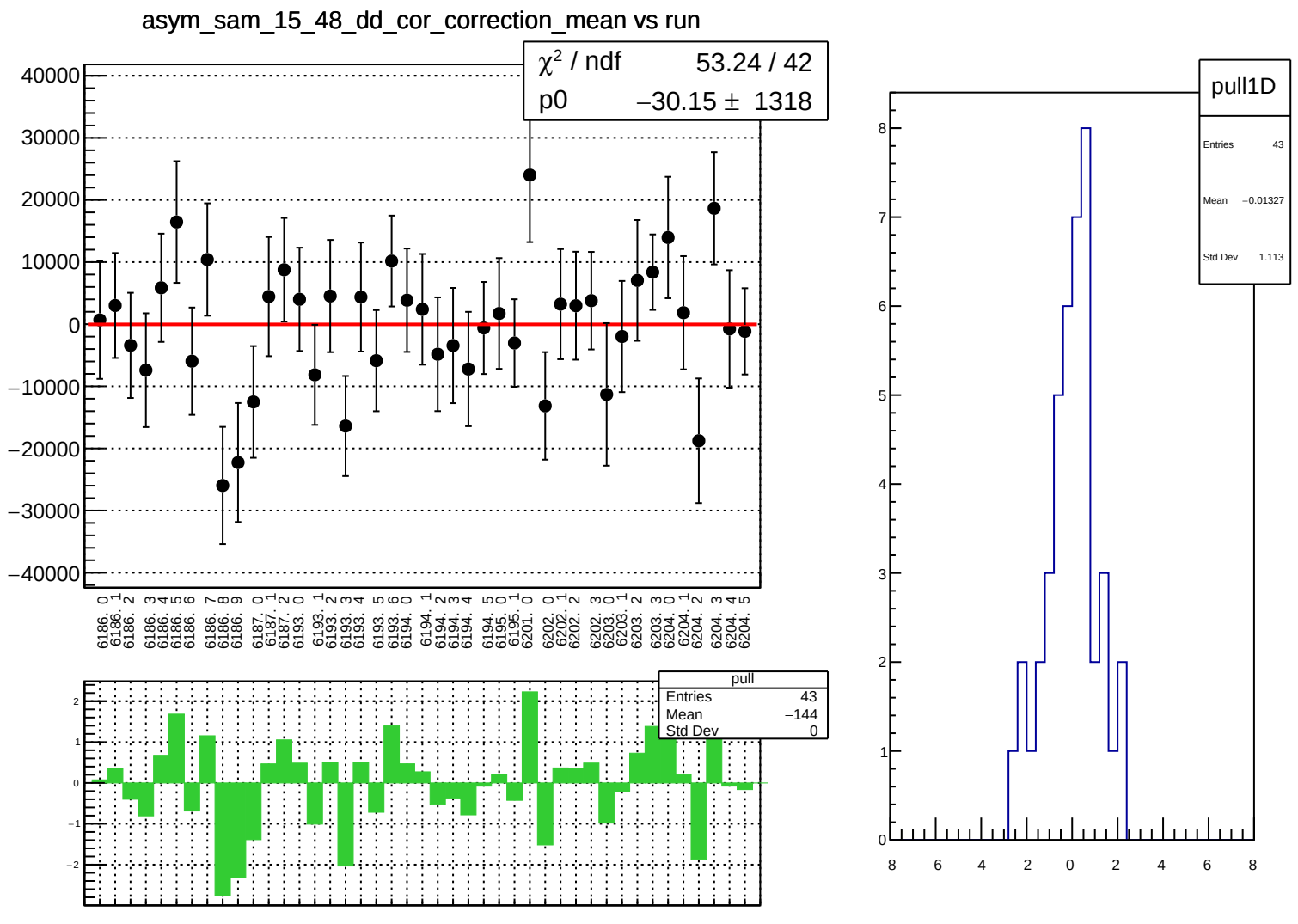

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 53.24 / 42
p0 −30.14 ± 1318
pull
Entries 43
Mean −144
Std Dev 0
pull1D
Entries 43
Mean −0.01327
Std Dev 1.113

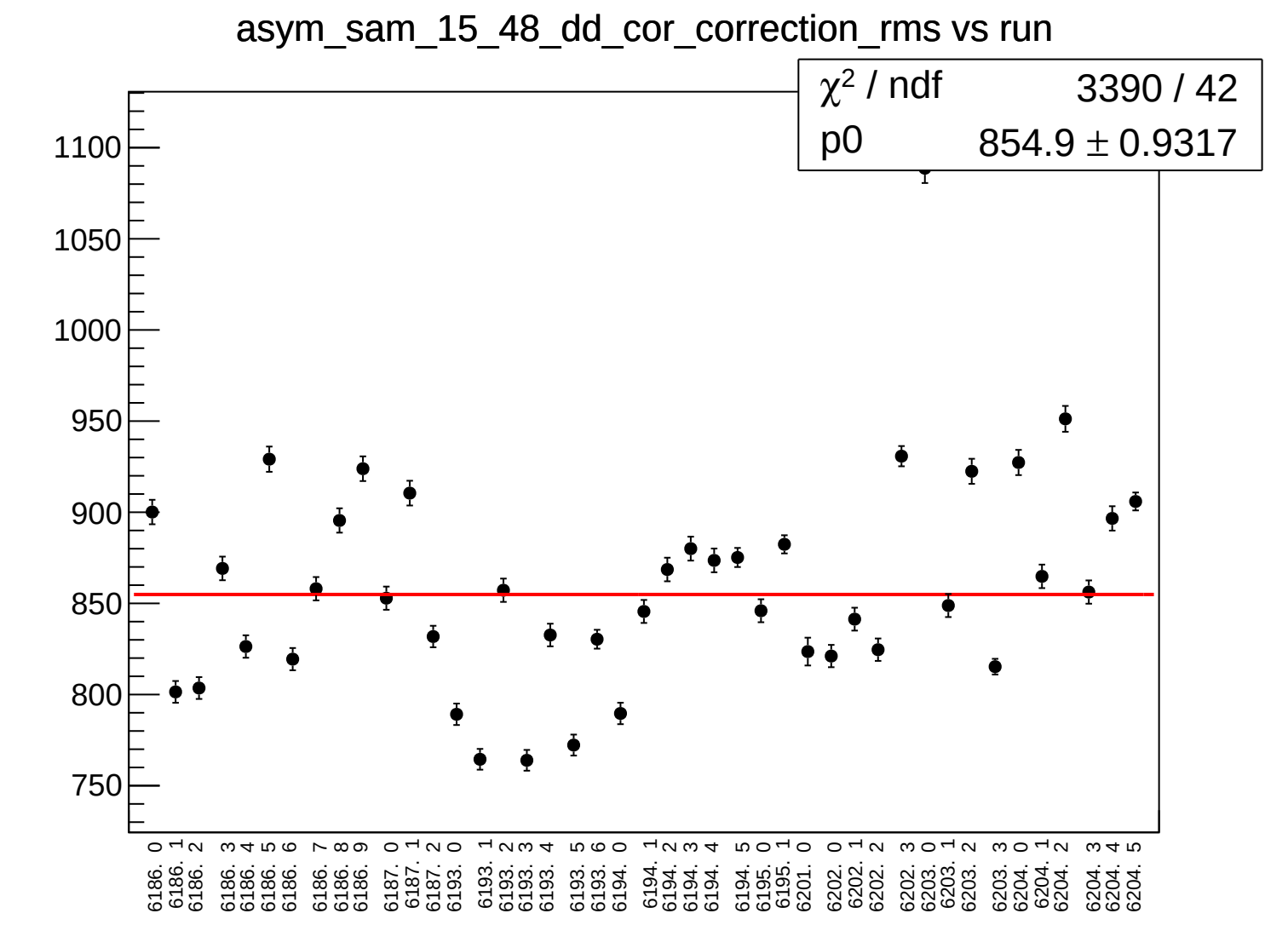

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 3390 / 42
p0 854.9 ± 0.9317
1100
1050
1000
950
900
850
800
750
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

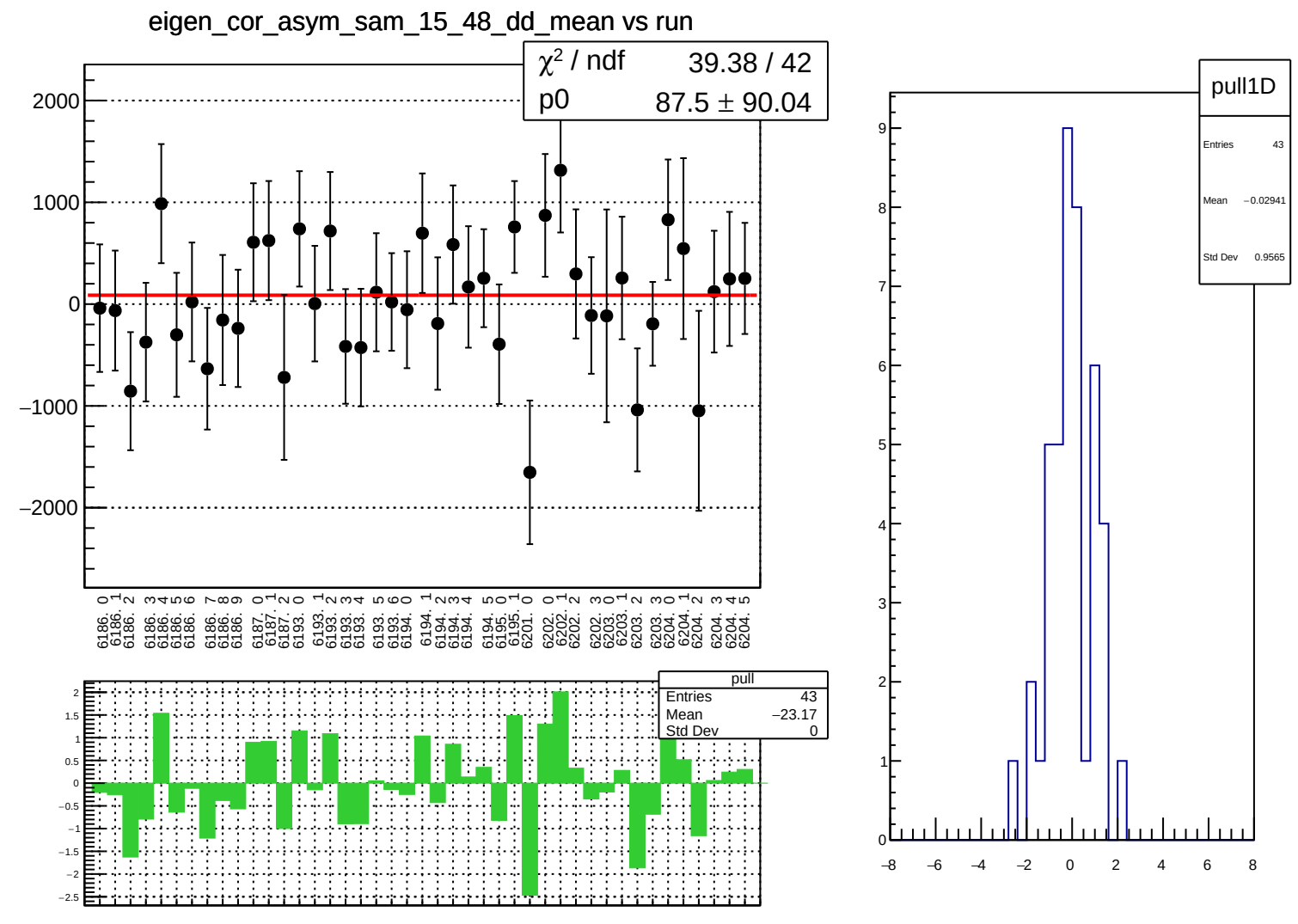

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 39.38 / 42
p0 87.5 ± 90.04
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −23.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

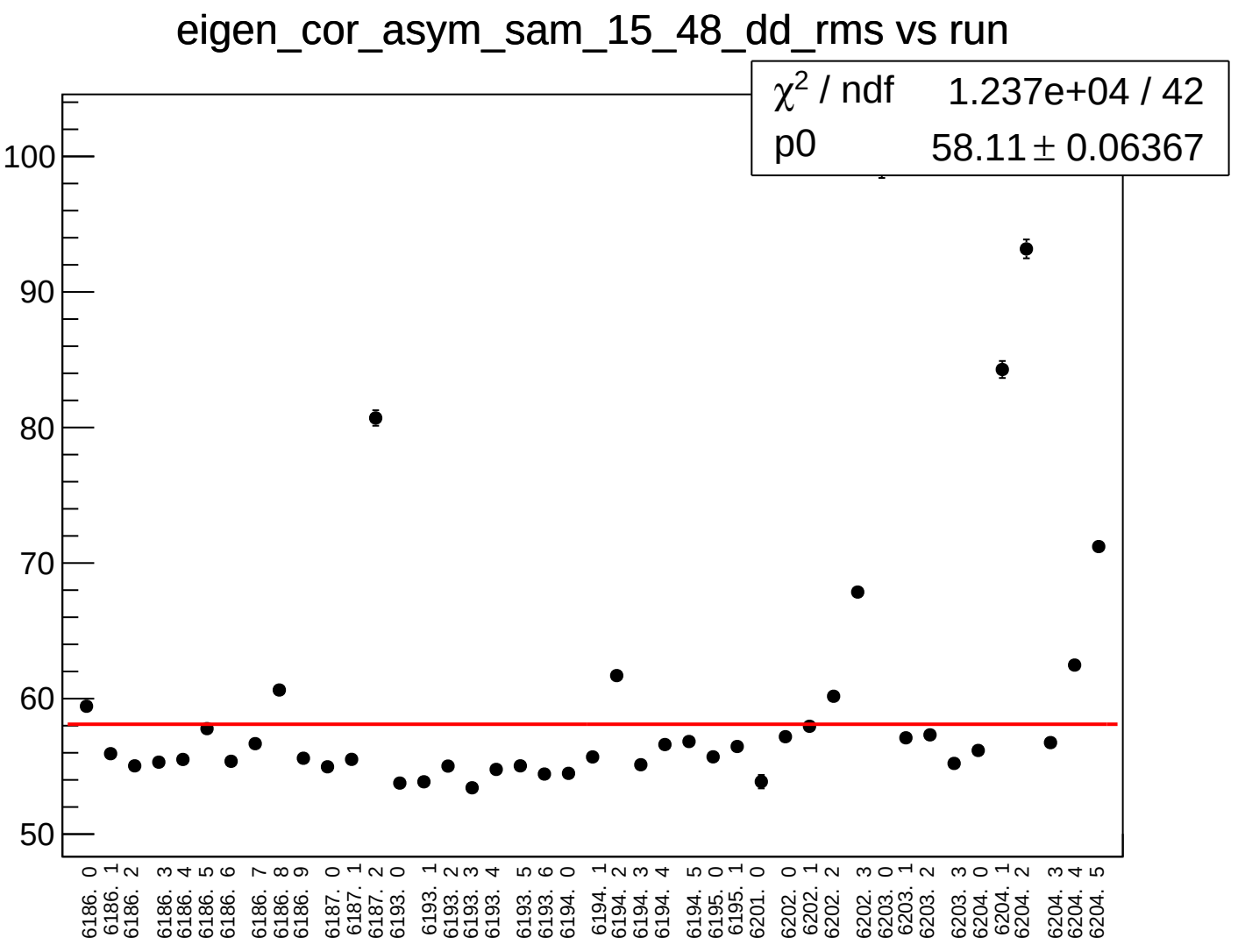

pull1D
Entries 43
Mean −0.02941
Std Dev 0.9565
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

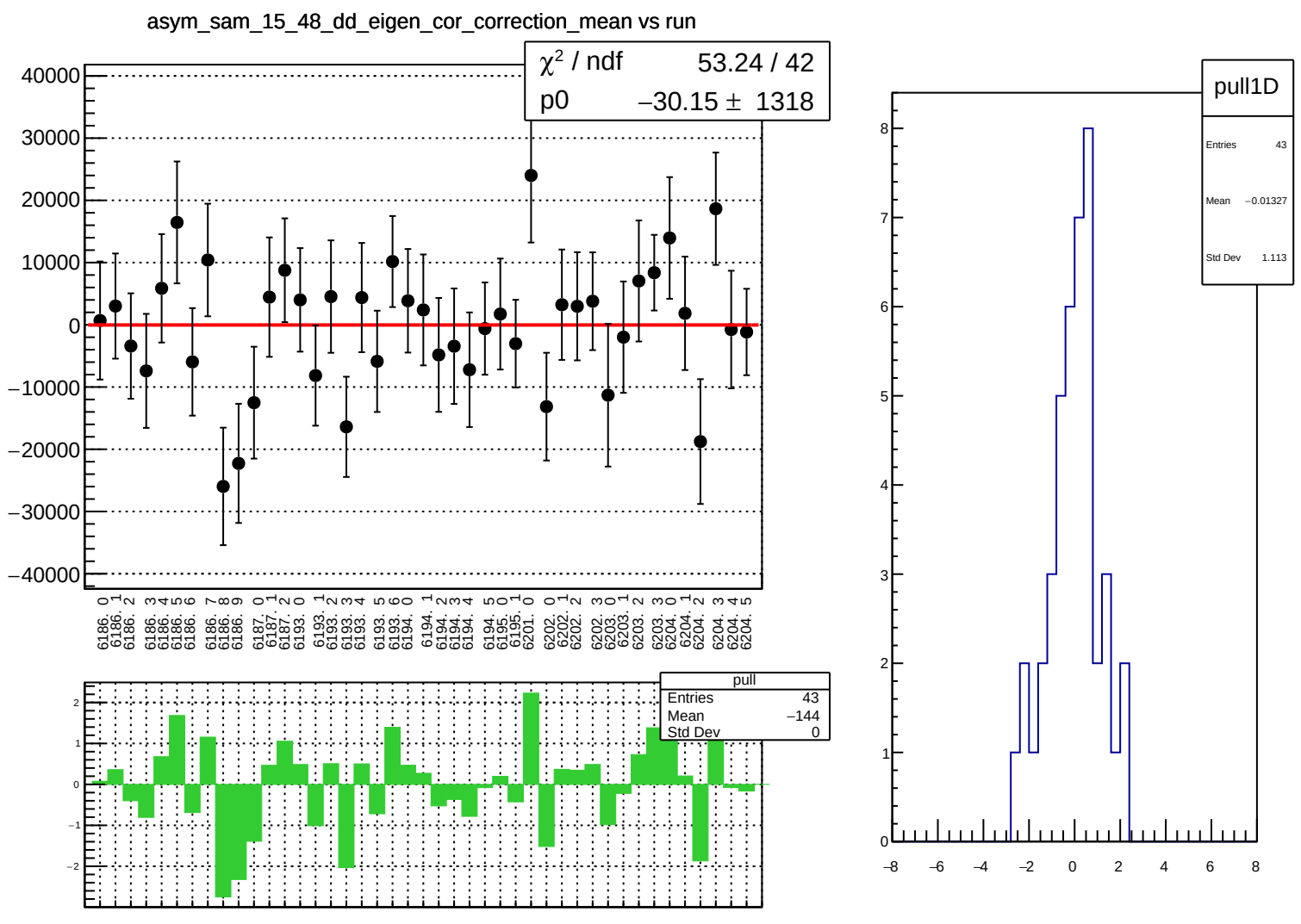

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.237e+04 / 42
p0 58.11 ± 0.06367
100
90
80
70
60
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

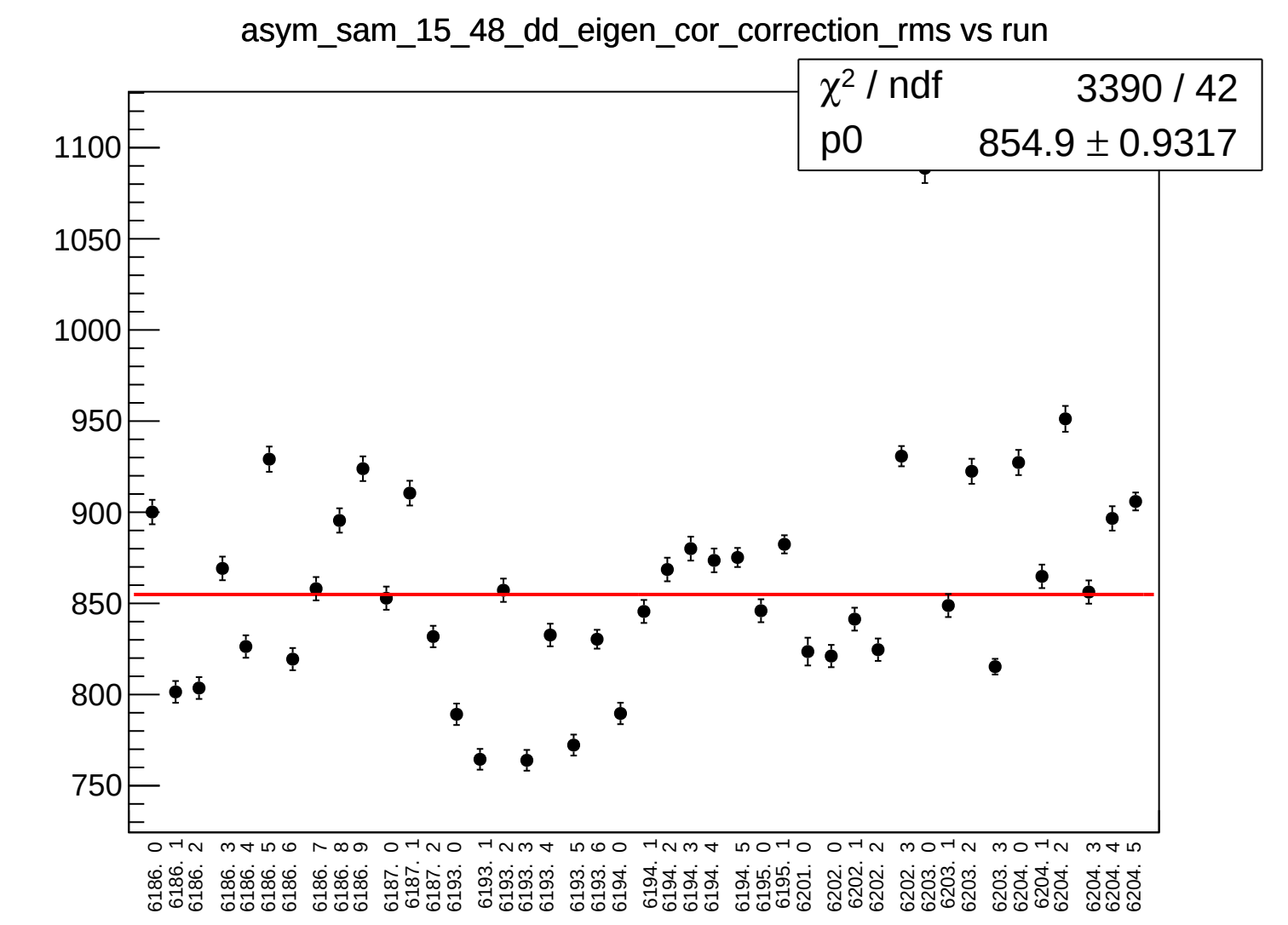

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 53.24 / 42
p0 −30.15 ± 1318
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −144
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01327
Std Dev 1.113
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

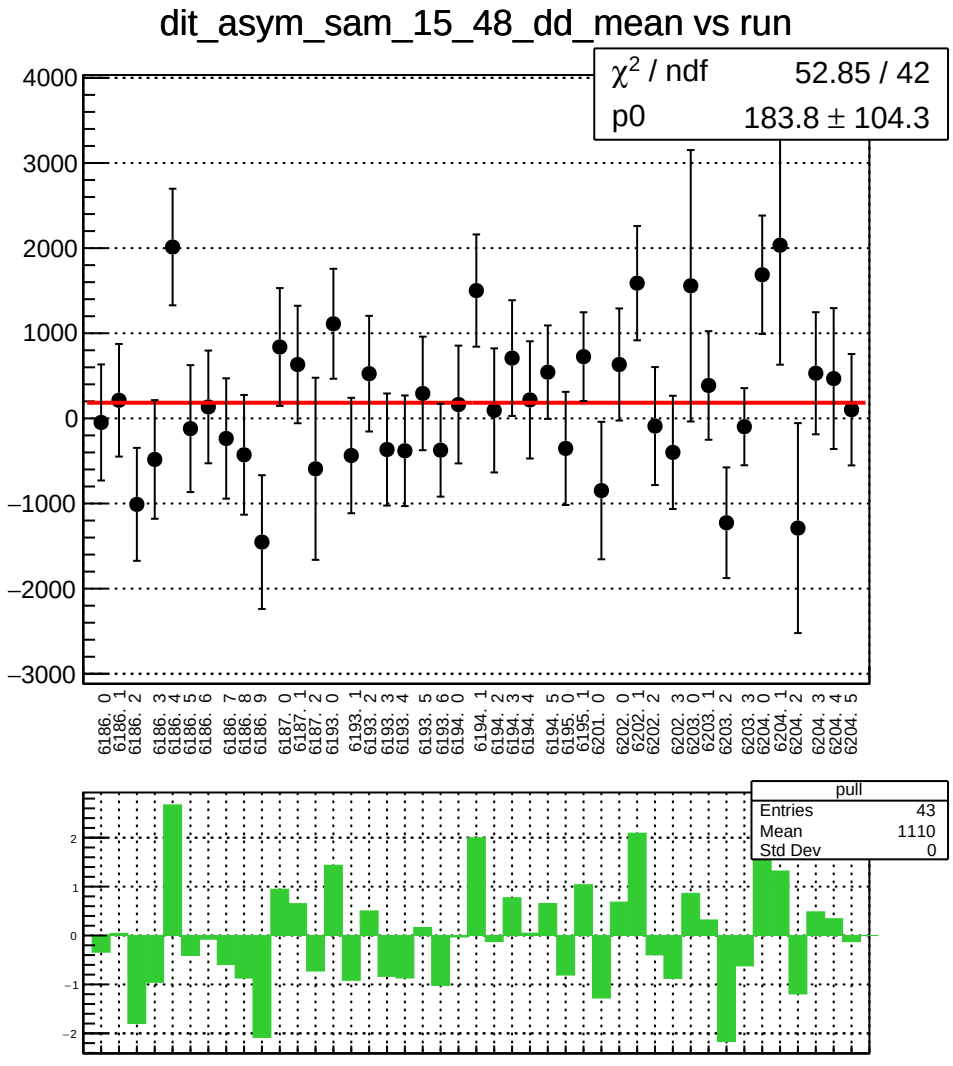

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 3390 / 42
p0 854.9 ± 0.9317
1100
1050
1000
950
900
850
800
750
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

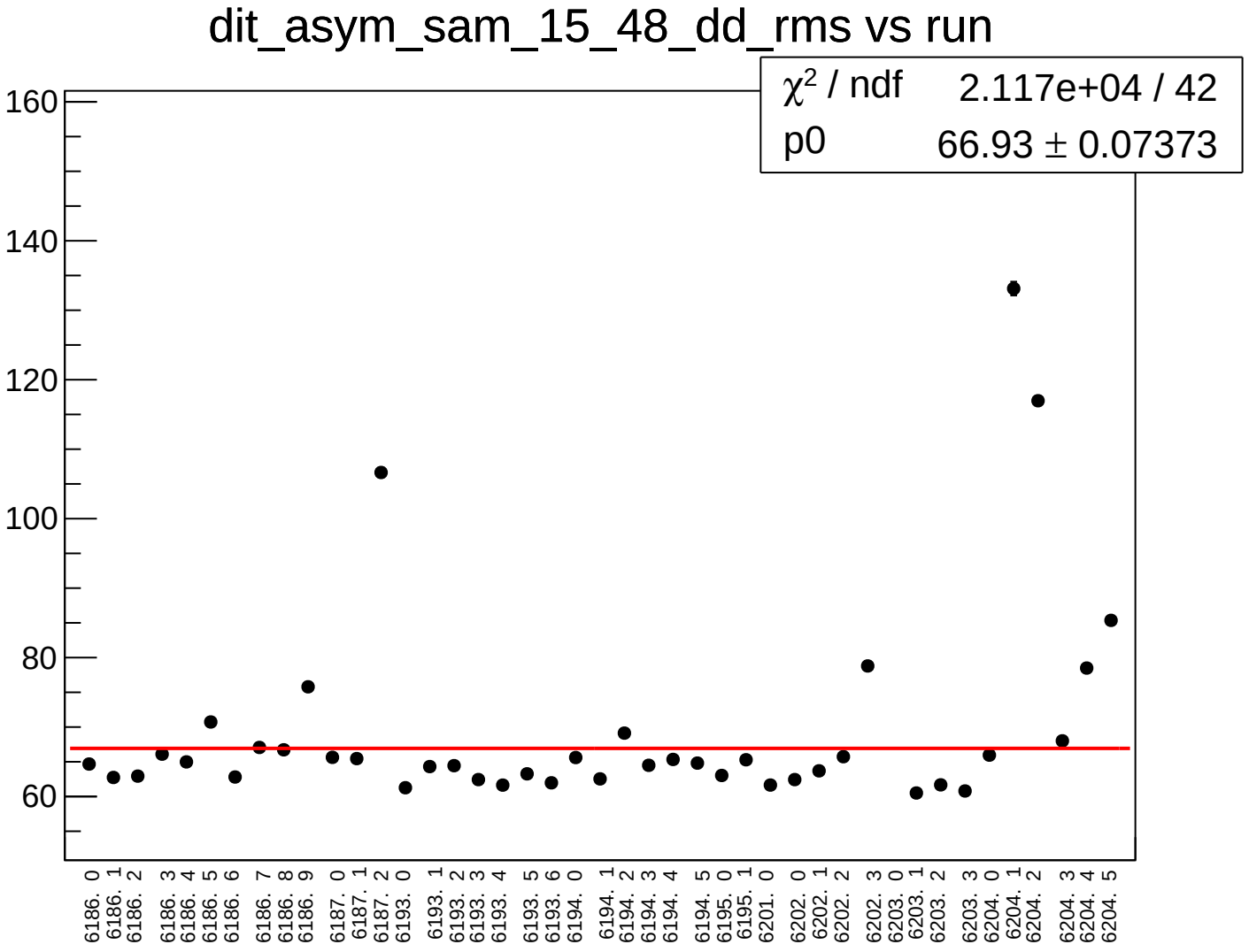

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 39.38 / 42
p0 87.5 ± 90.04
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −23.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean −0.02941
Std Dev 0.9565
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

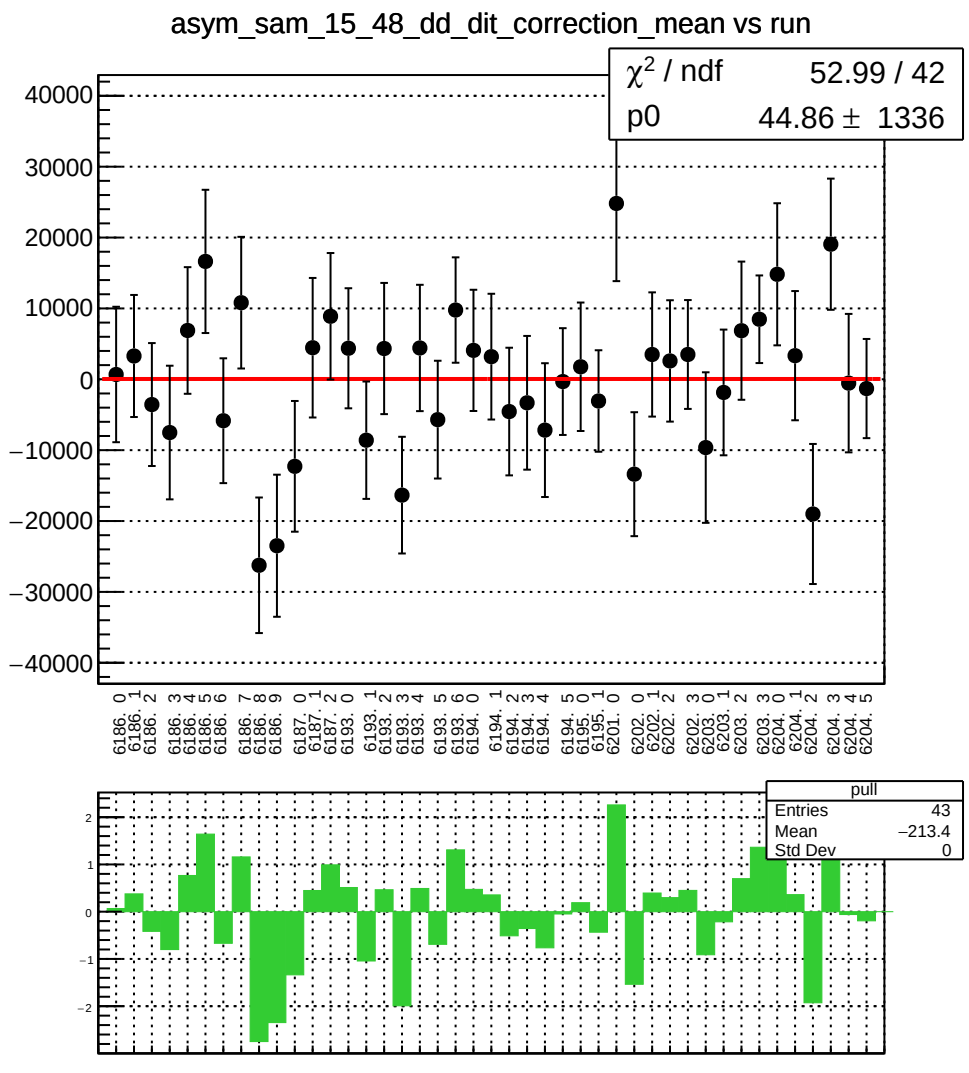

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.237e+04 / 42
p0 58.11 ± 0.06367
100
90
80
70
60
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

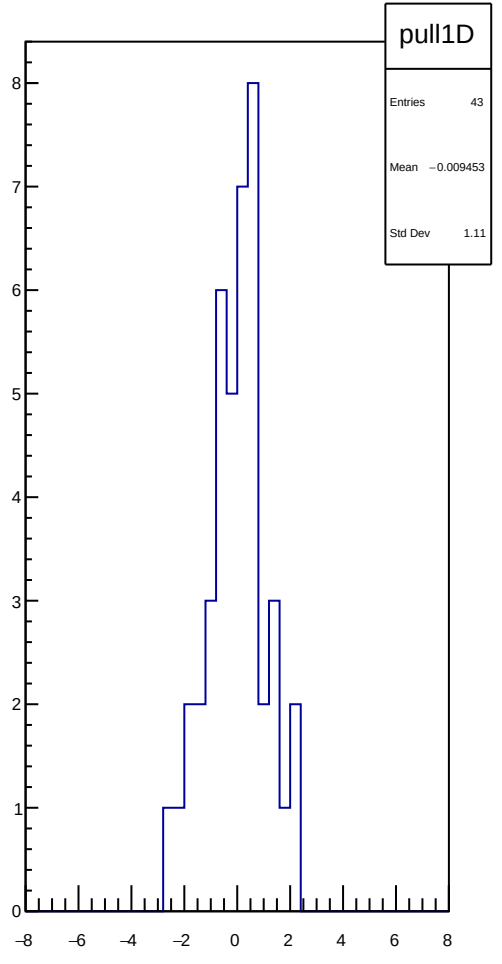

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 53.24 / 42
p0 −30.15 ± 1318
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −144
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01327
Std Dev 1.113
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

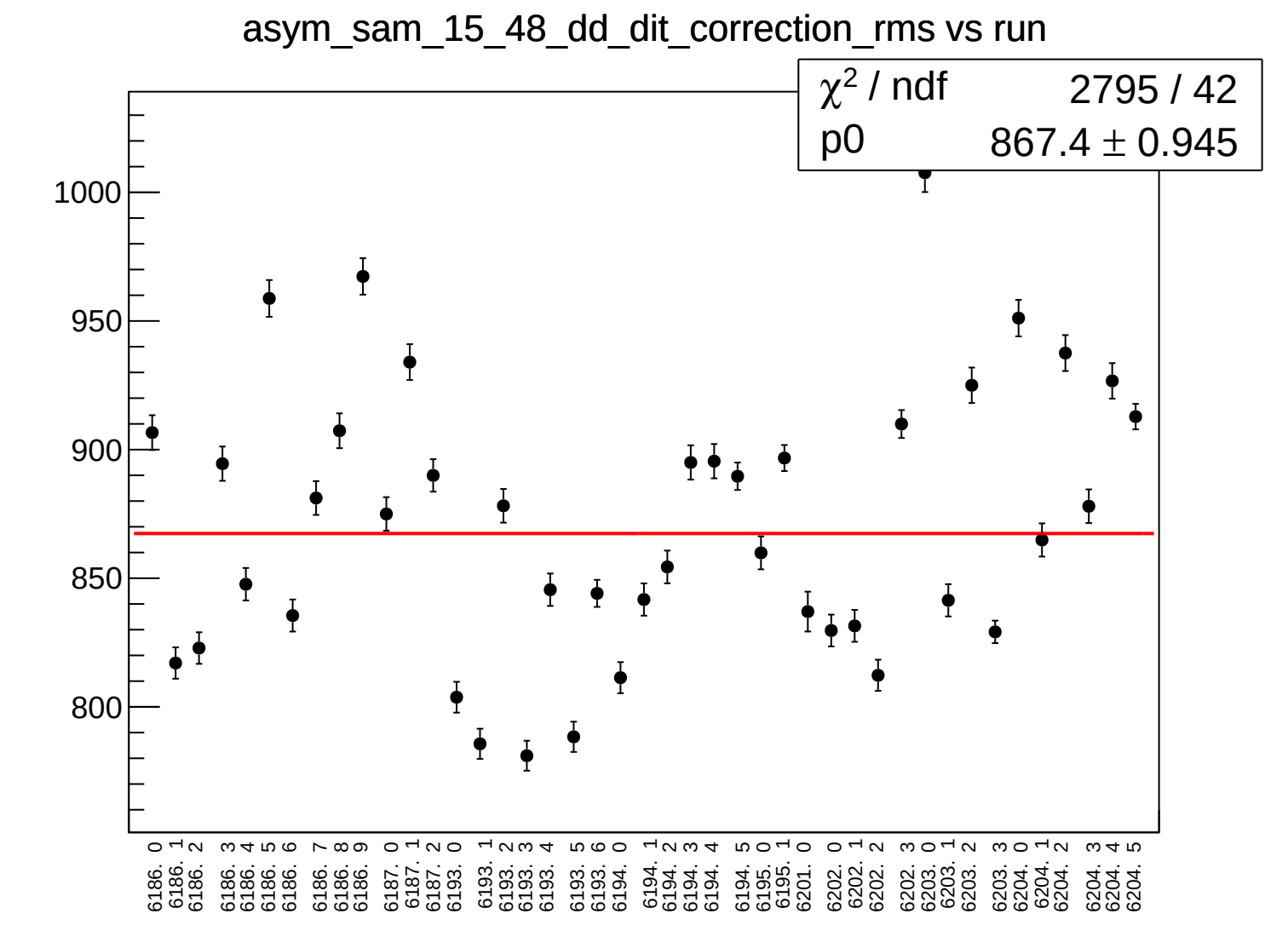

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3390 / 42
p0 854.9 ± 0.9317
1100
1050
1000
950
900
850
800
750
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

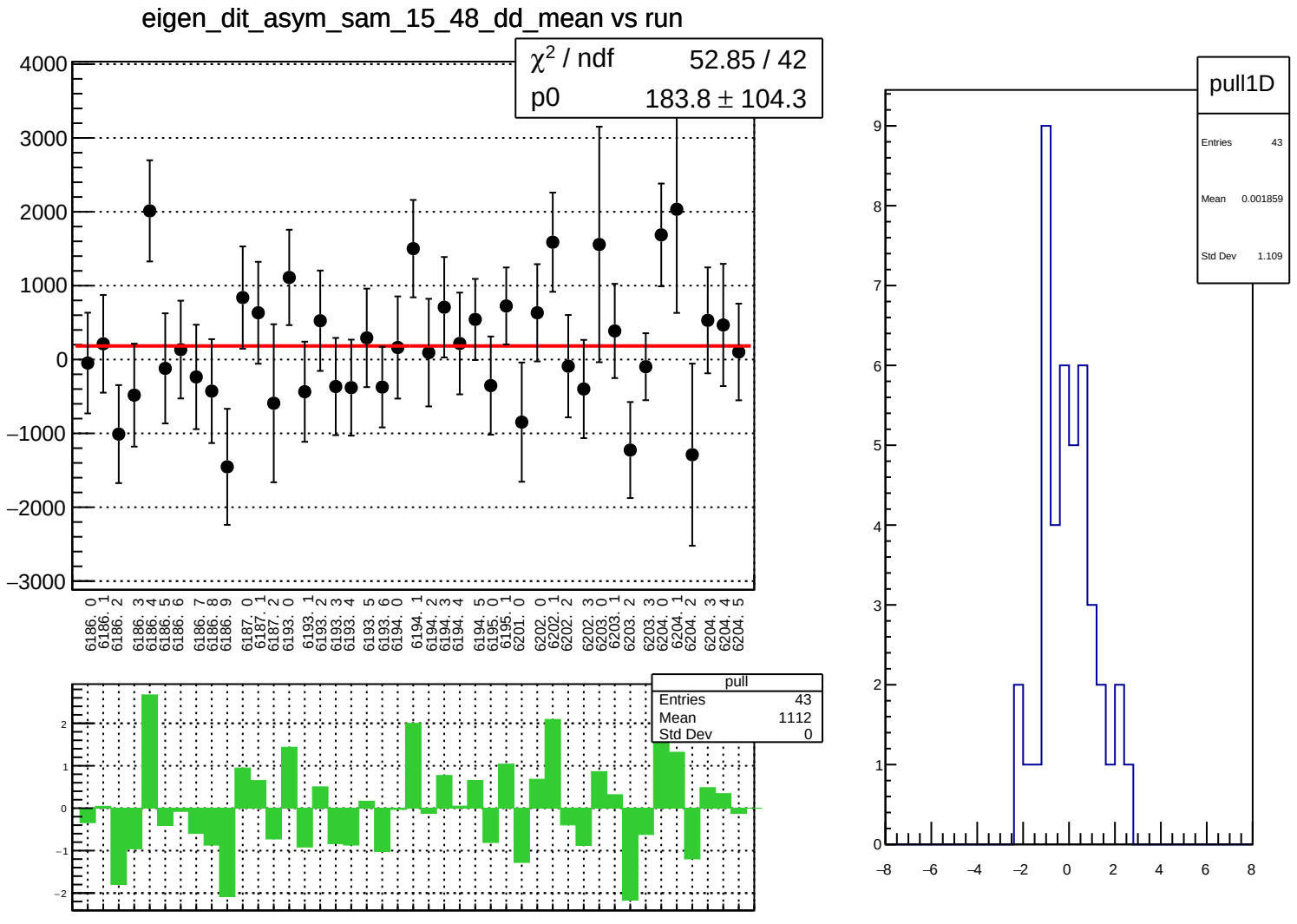

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 52.85 / 42
p0 183.8 ± 104.3
4000
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1110
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.001861
Std Dev 1.109
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

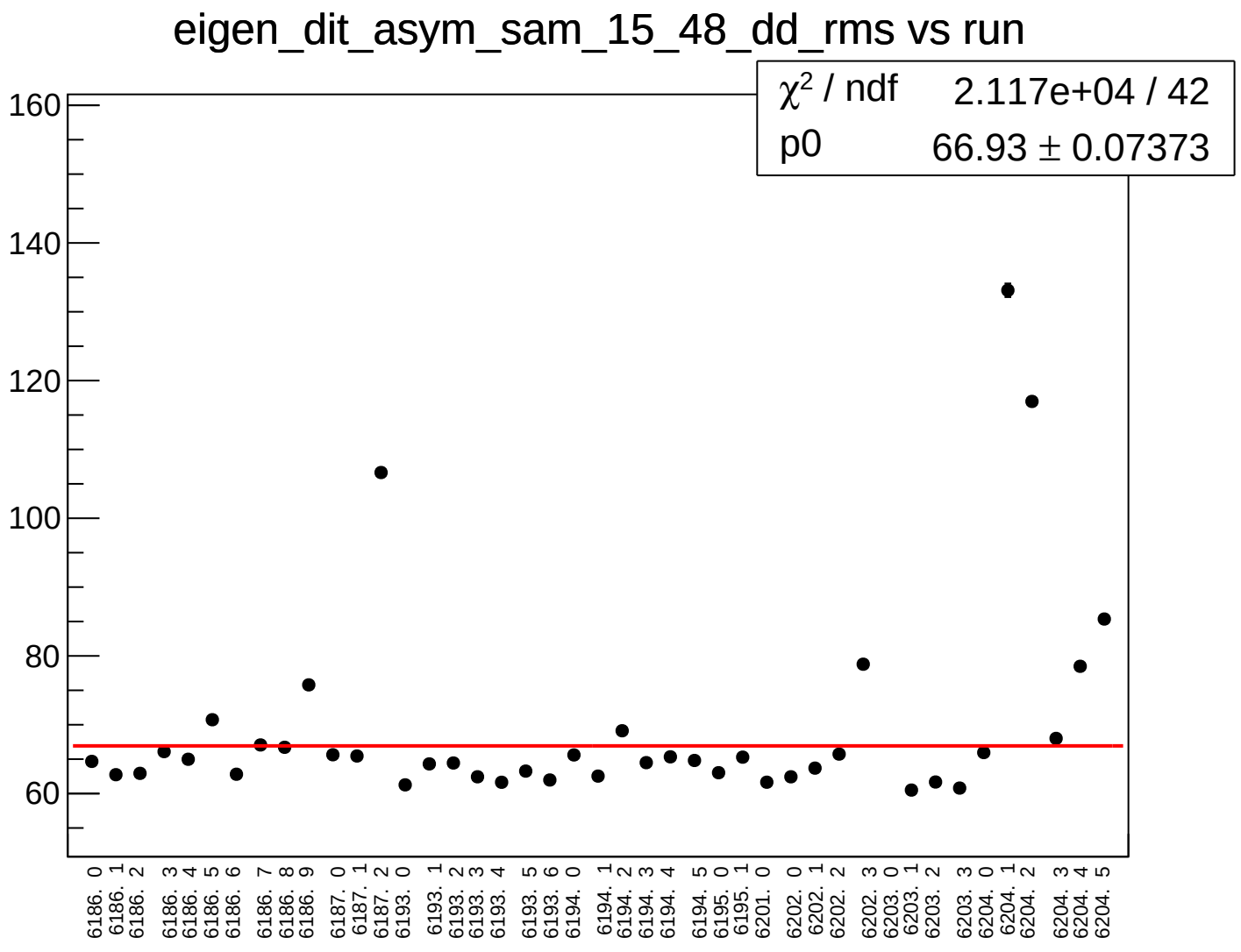

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.117e+04 / 42
p0 66.93 ± 0.07373
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

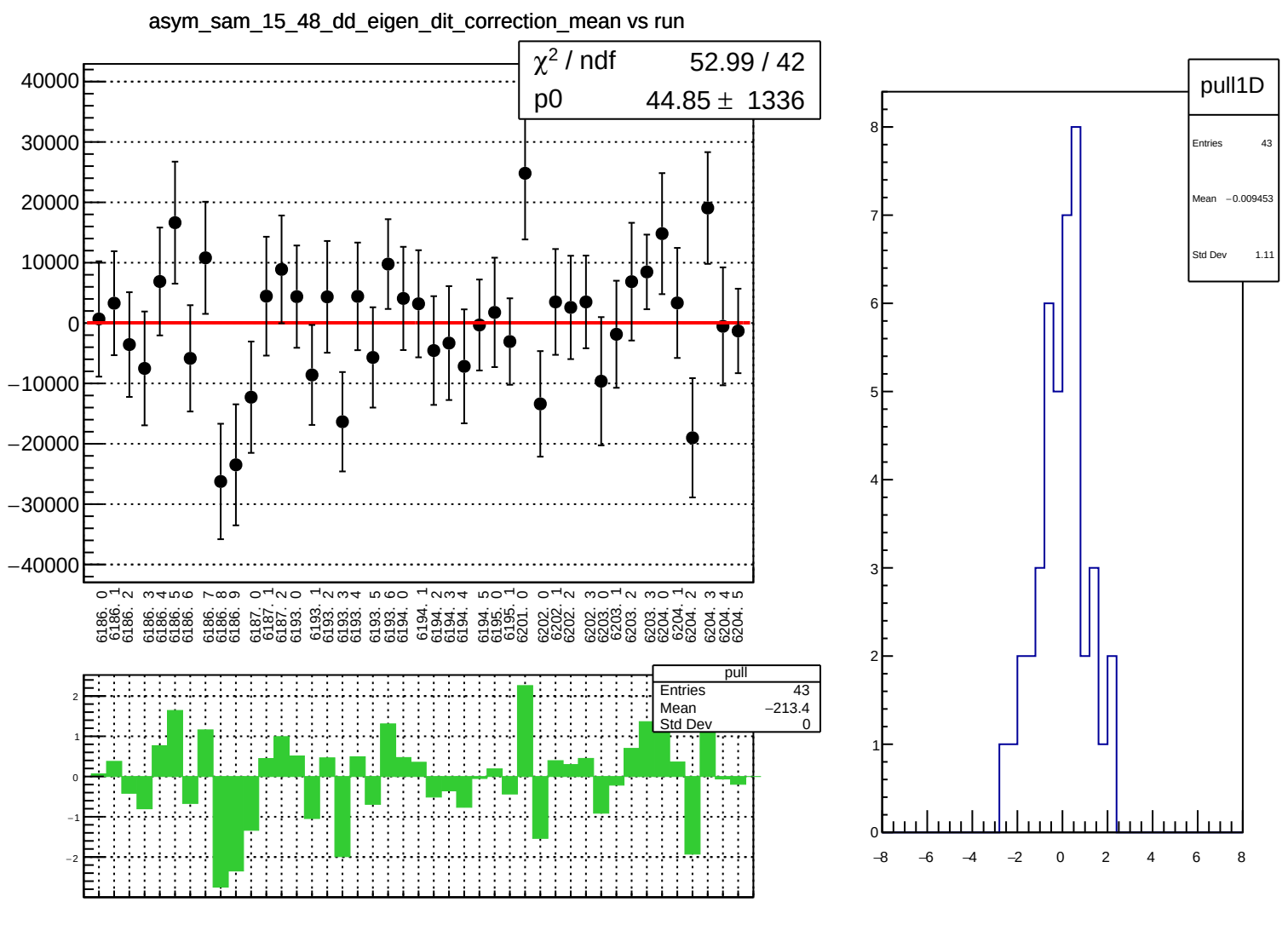

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 52.99 / 42
p0 44.86 ± 1336
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −213.4
Std Dev 0
2
1
0
−1
−2

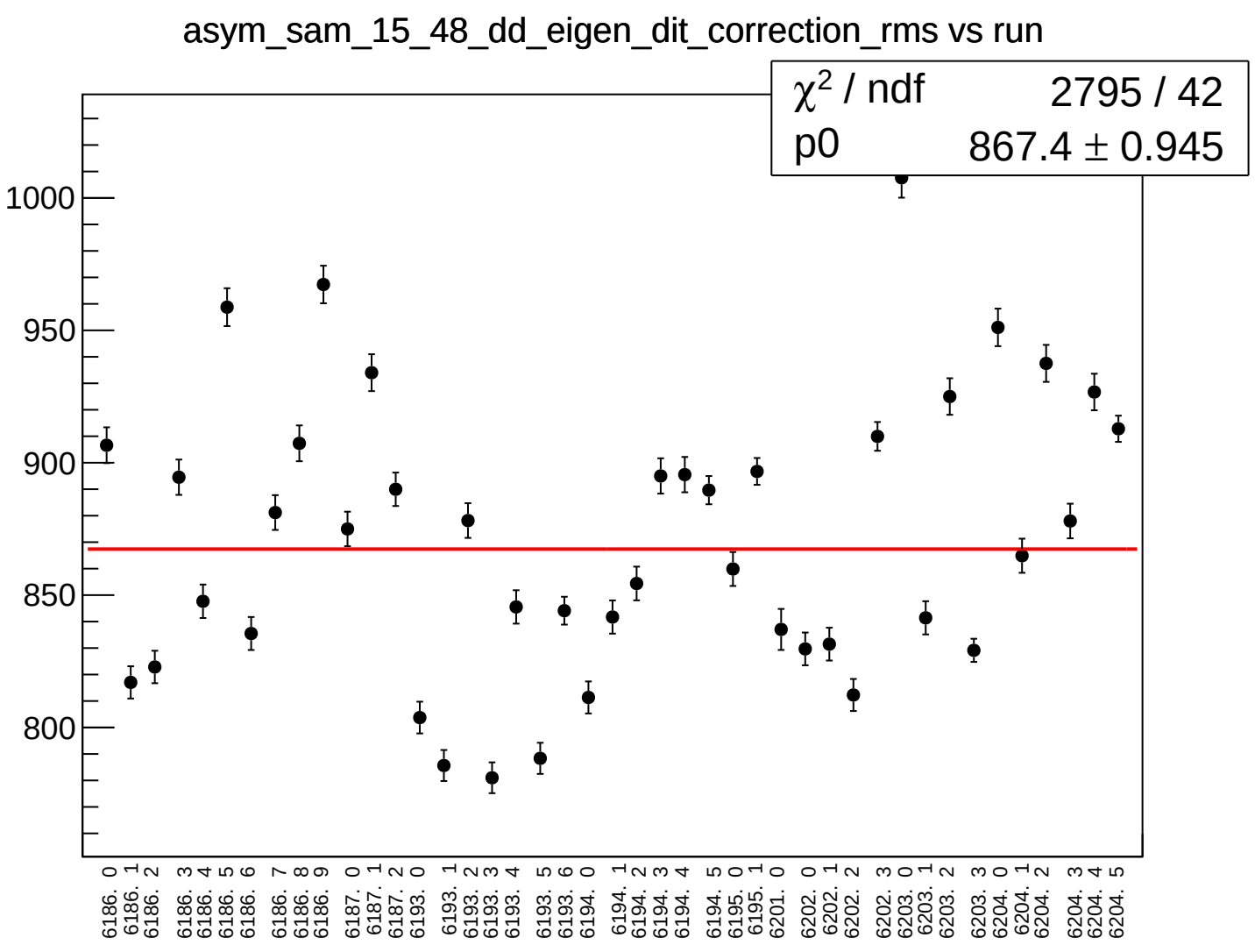

pull1D
Entries 43
Mean −0.009453
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

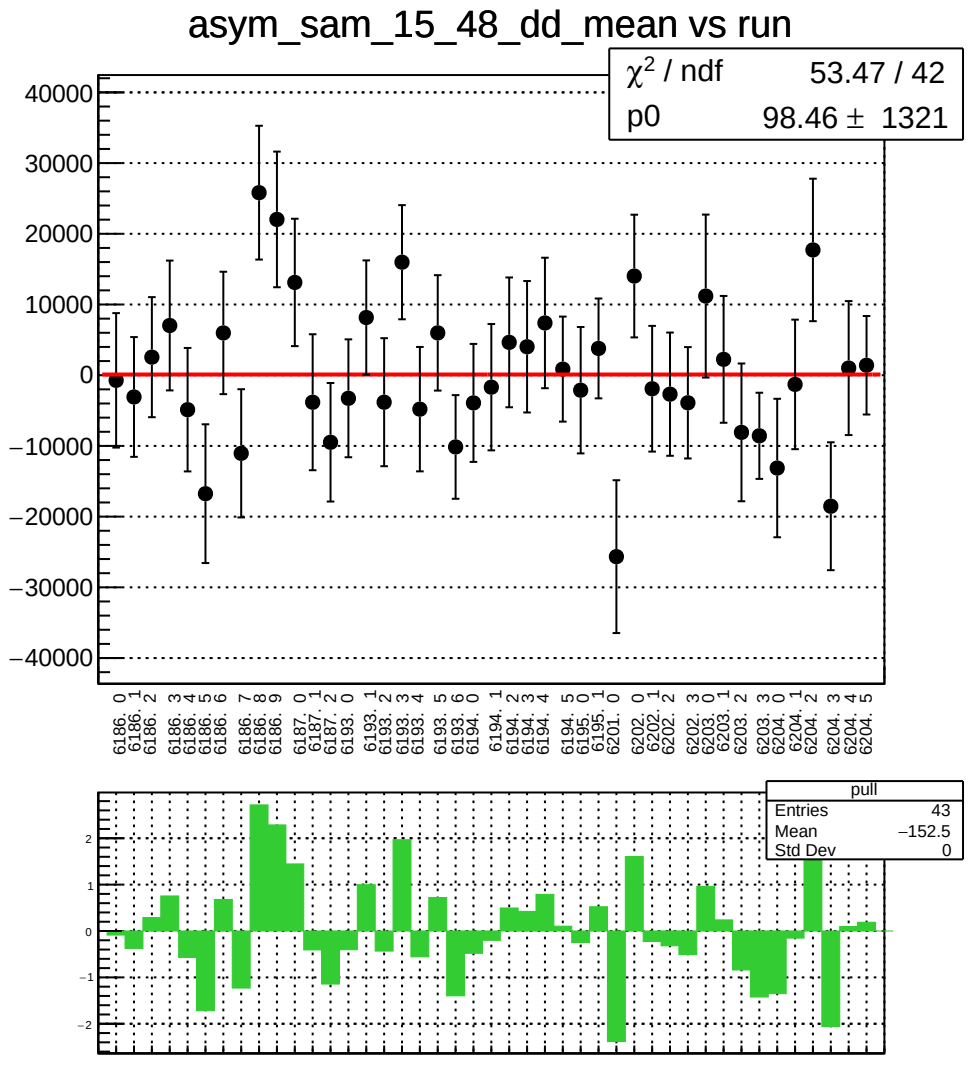

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 2795 / 42
p0 867.4 ± 0.945
1000
950
900
850
800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

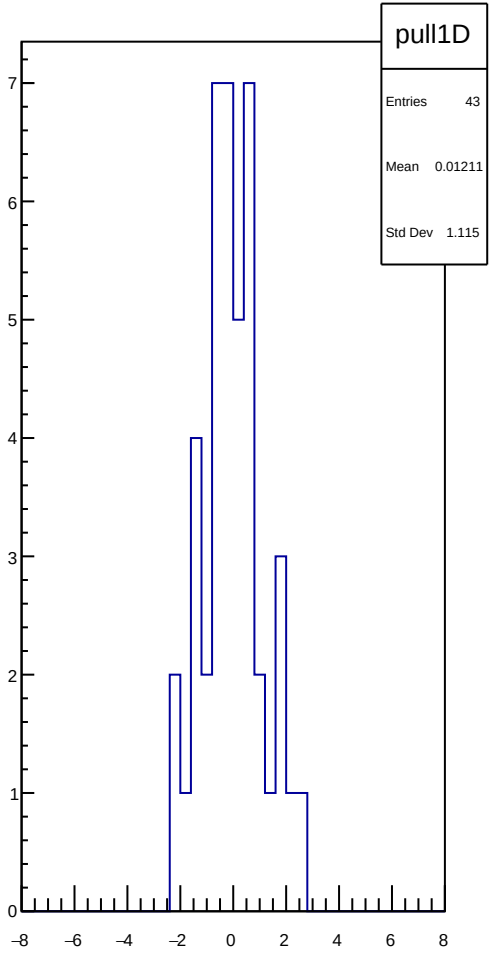

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 52.85 / 42
p0 183.8 ± 104.3
4000
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1112
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.001859
Std Dev 1.109
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

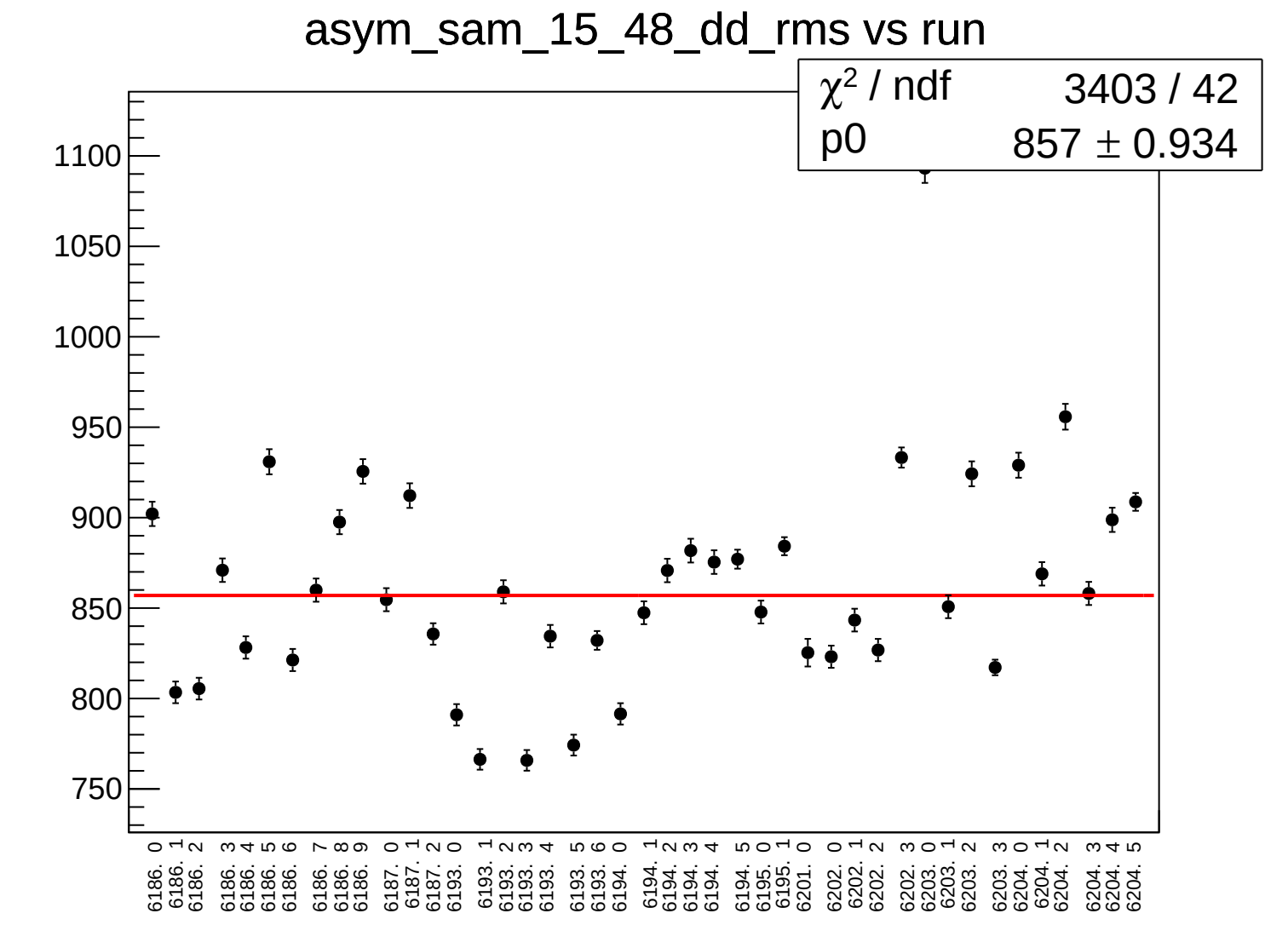

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.117e+04 / 42
p0 66.93 ± 0.07373
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

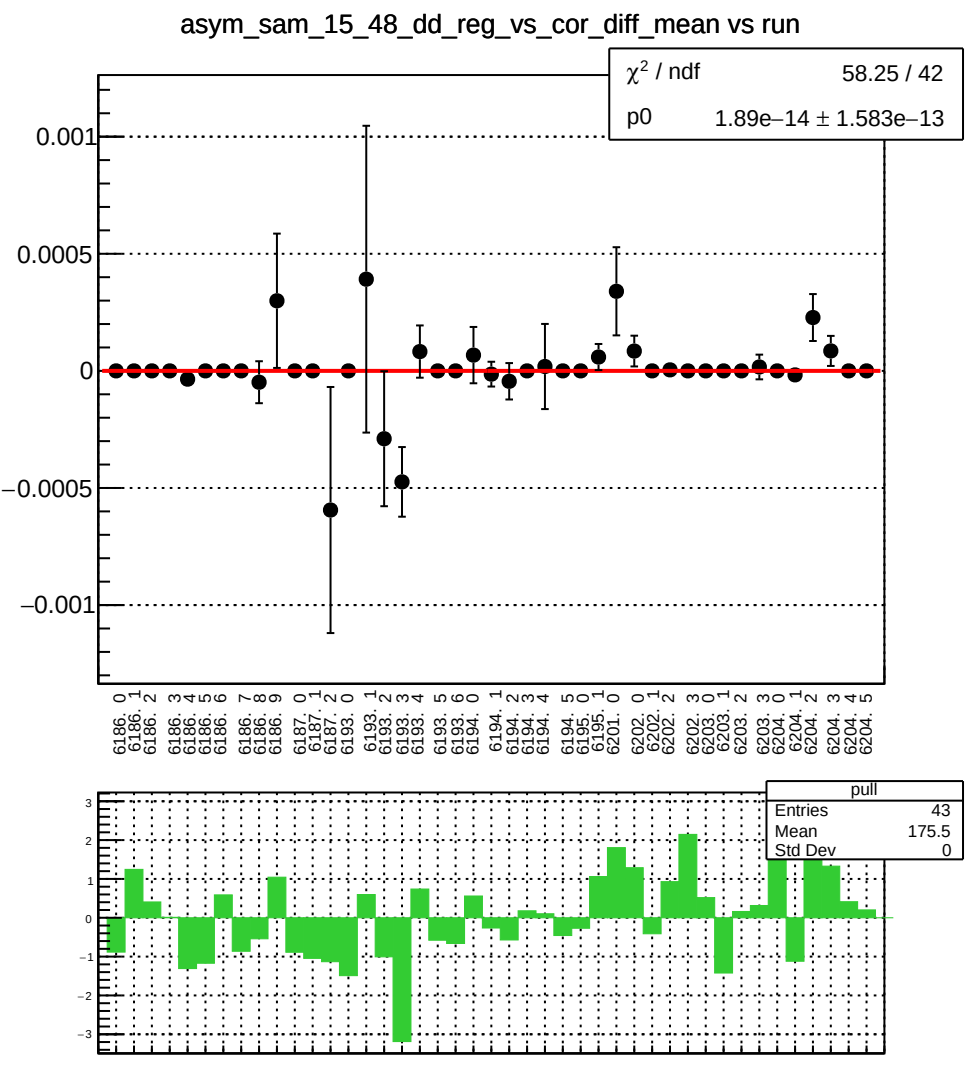

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 52.99 / 42
p0 44.85 ± 1336
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −213.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.009453
Std Dev 1.11
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

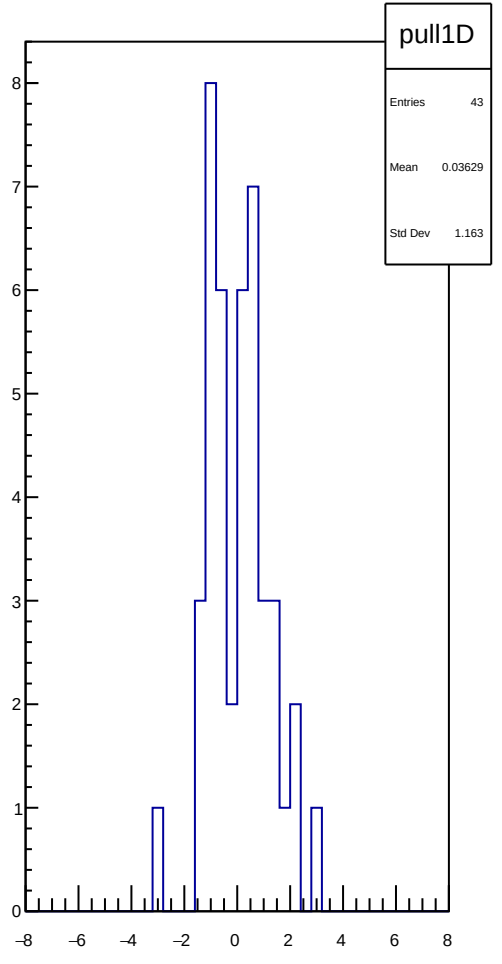

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2795 / 42
p0 867.4 ± 0.945
1000
950
900
850
800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

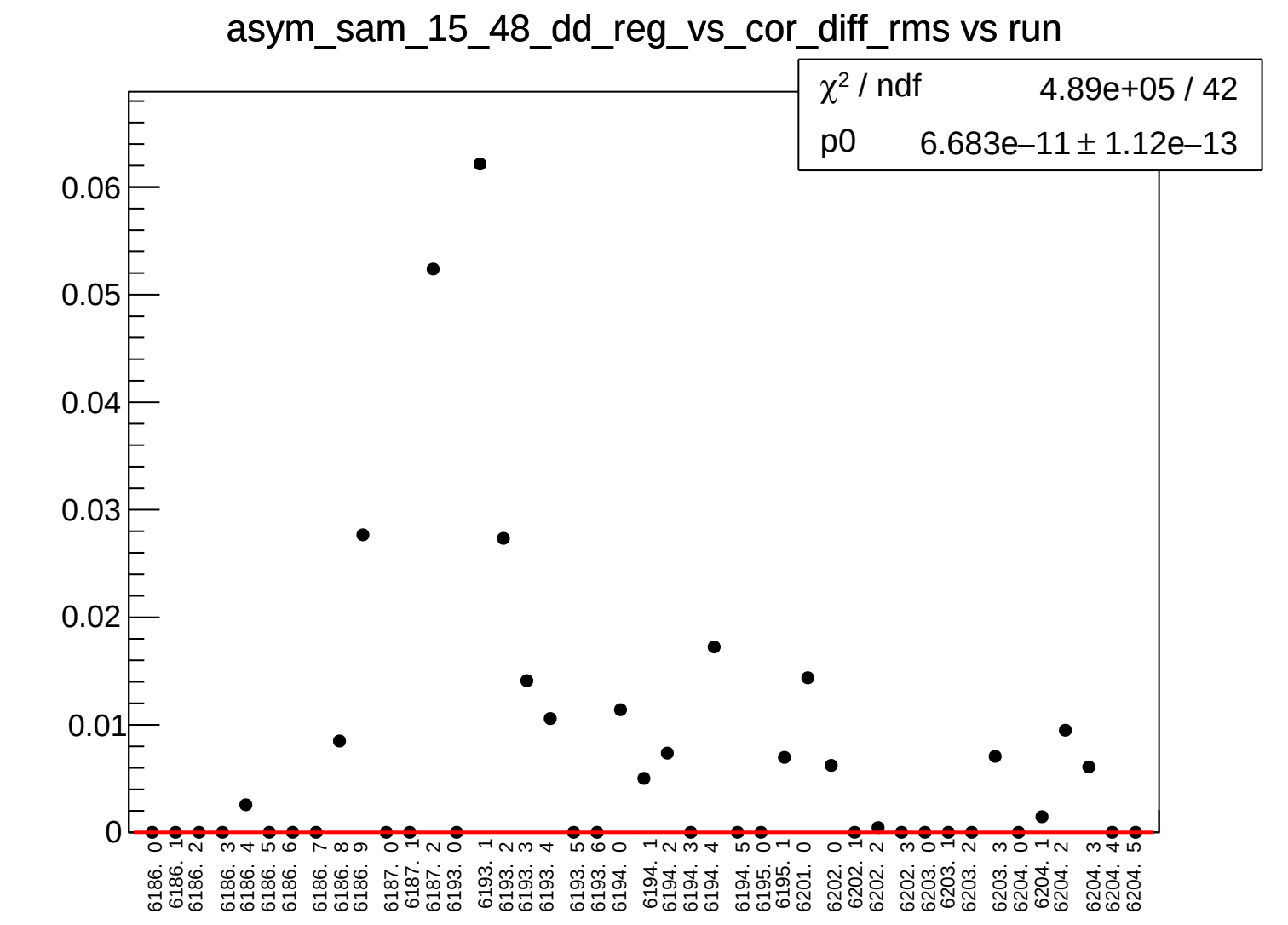

asym_sam_15_48_dd_mean vs run
χ² / ndf 53.47 / 42
p0 98.46 ± 1321
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −152.5
Std Dev 0
2
1
0
−1
−2

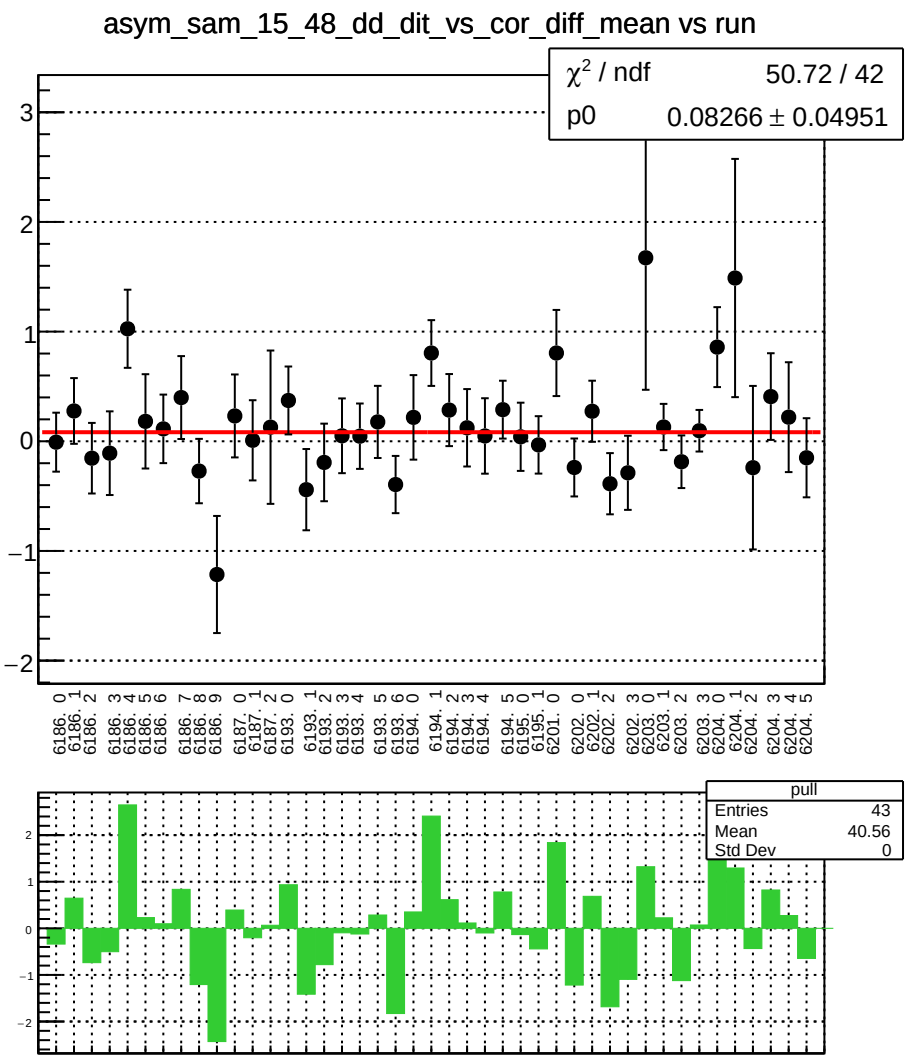

pull1D
Entries 43
Mean 0.01211
Std Dev 1.115
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

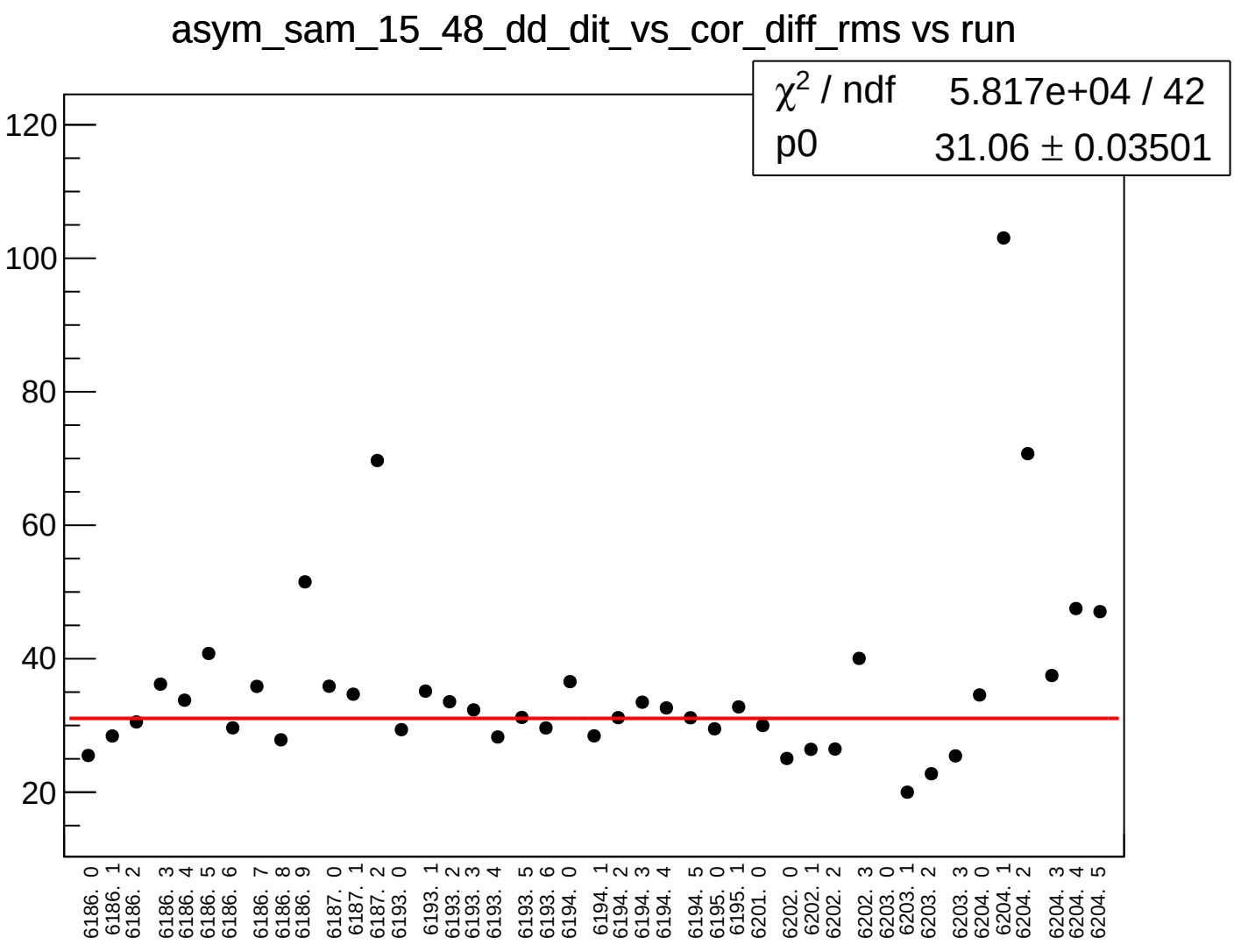

asym_sam_15_48_dd_rms vs run
χ² / ndf 3403 / 42
p0 857 ± 0.934
1100
1050
1000
950
900
850
800
750
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 58.25 / 42
p0 1.89e−14 ± 1.583e−13
0.001
0.0005
0
−0.0005
−0.001
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 175.5
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean 0.03629
Std Dev 1.163
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 4.89e+05 / 42
p0 6.683e−11 ± 1.12e−13
0.06
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 50.72 / 42
p0 0.08266 ± 0.04951
3
2
1
0
−1
−2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 40.56
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.05918
Std Dev 1.084
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.817e+04 / 42
p0 31.06 ± 0.03501
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 3
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6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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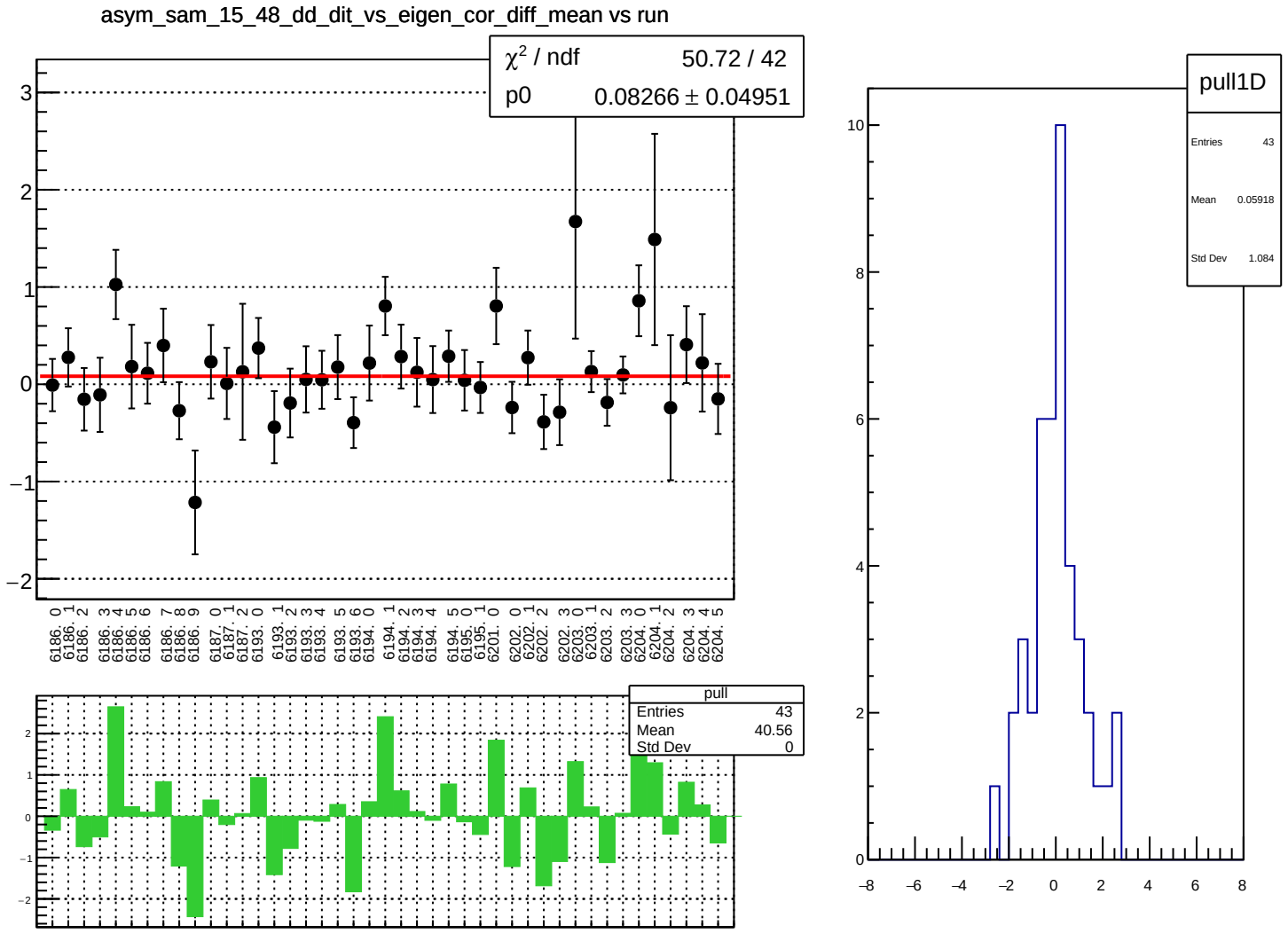
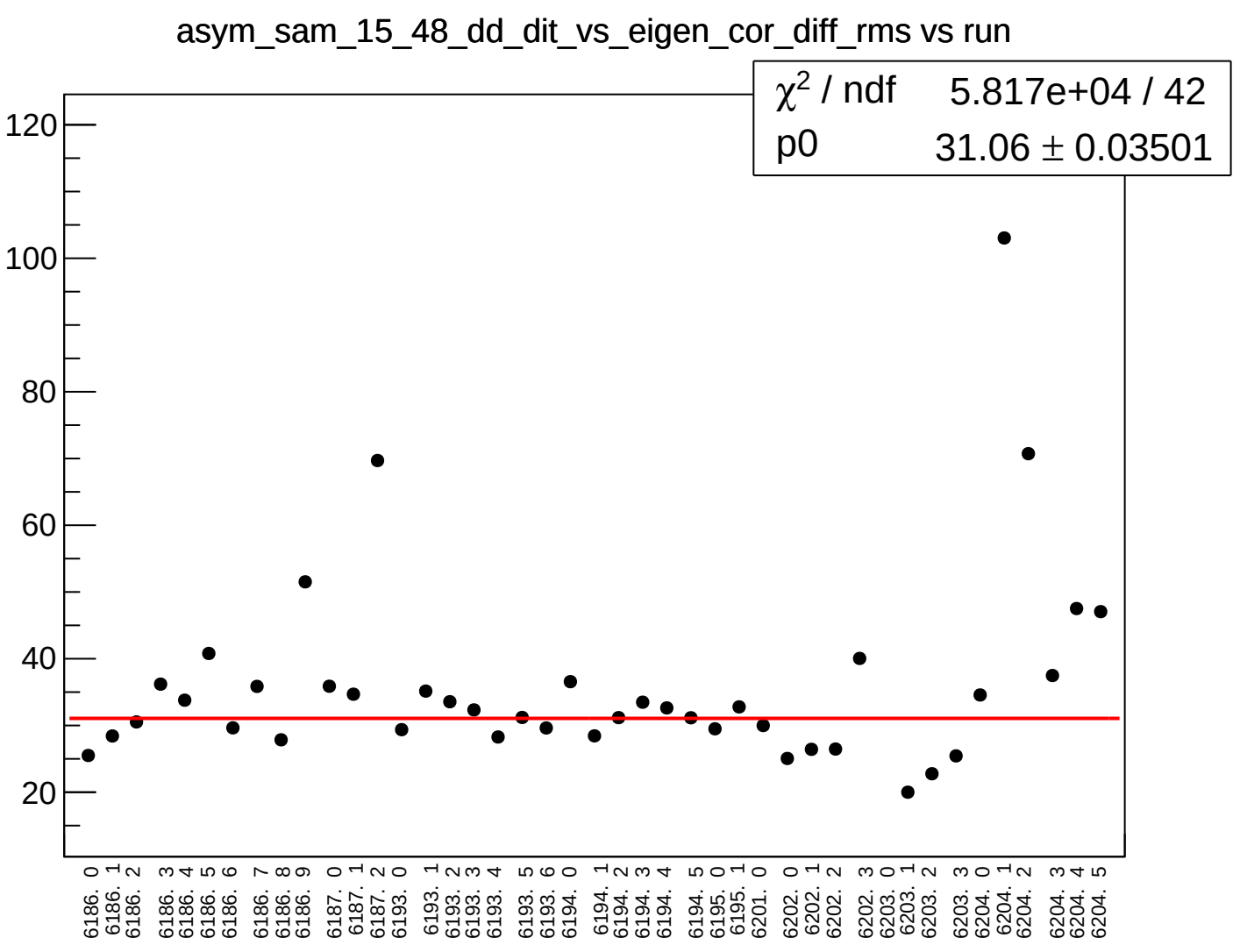
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 50.72 / 42
p0 0.08266 ± 0.04951
3
2
1
0
−1
−2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 40.56
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.05918
Std Dev 1.084
10
8
6
4
2
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 5.817e+04 / 42
p0 31.06 ± 0.03501
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
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6194. 4
6194. 5
6195. 0
6195. 1
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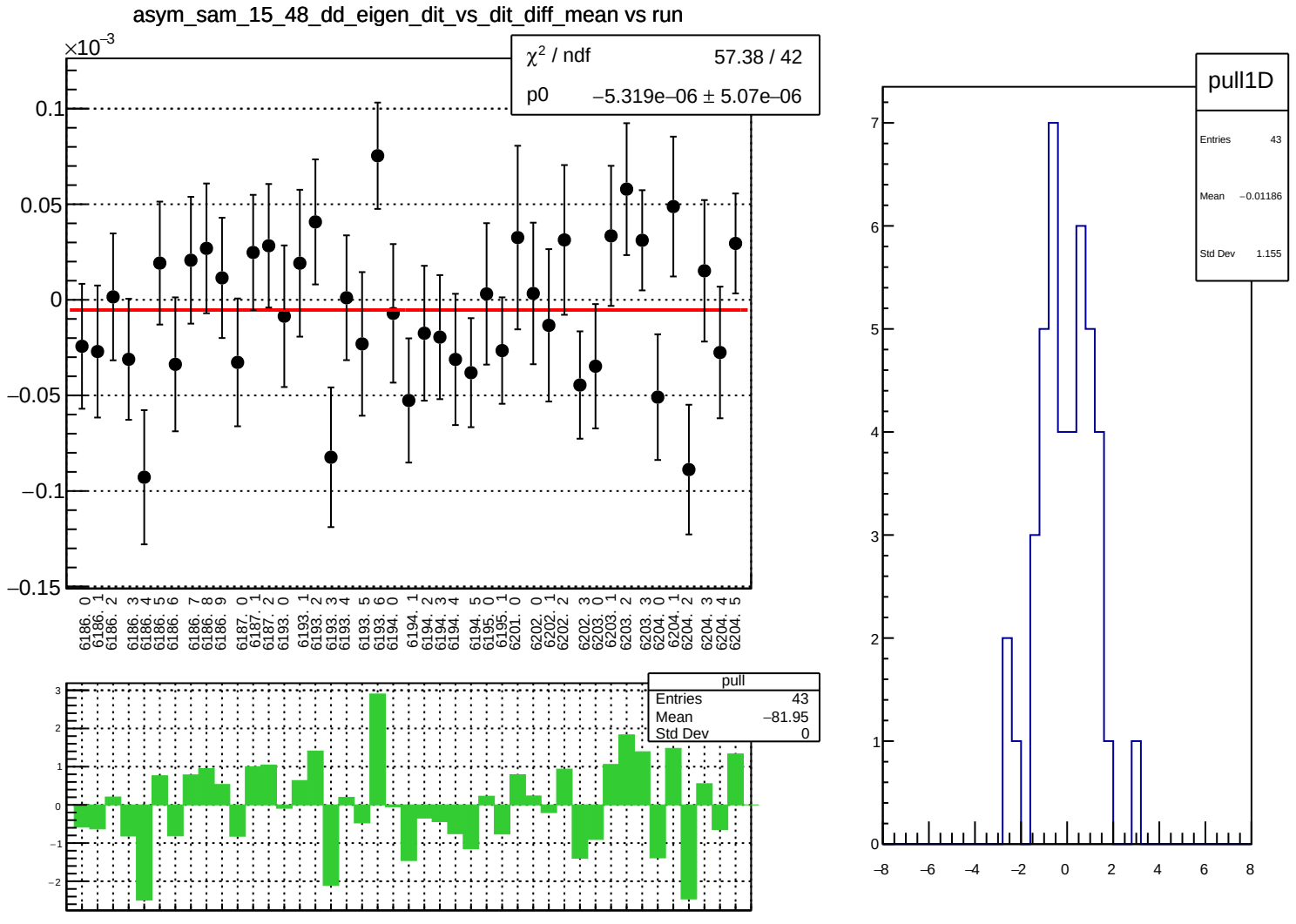
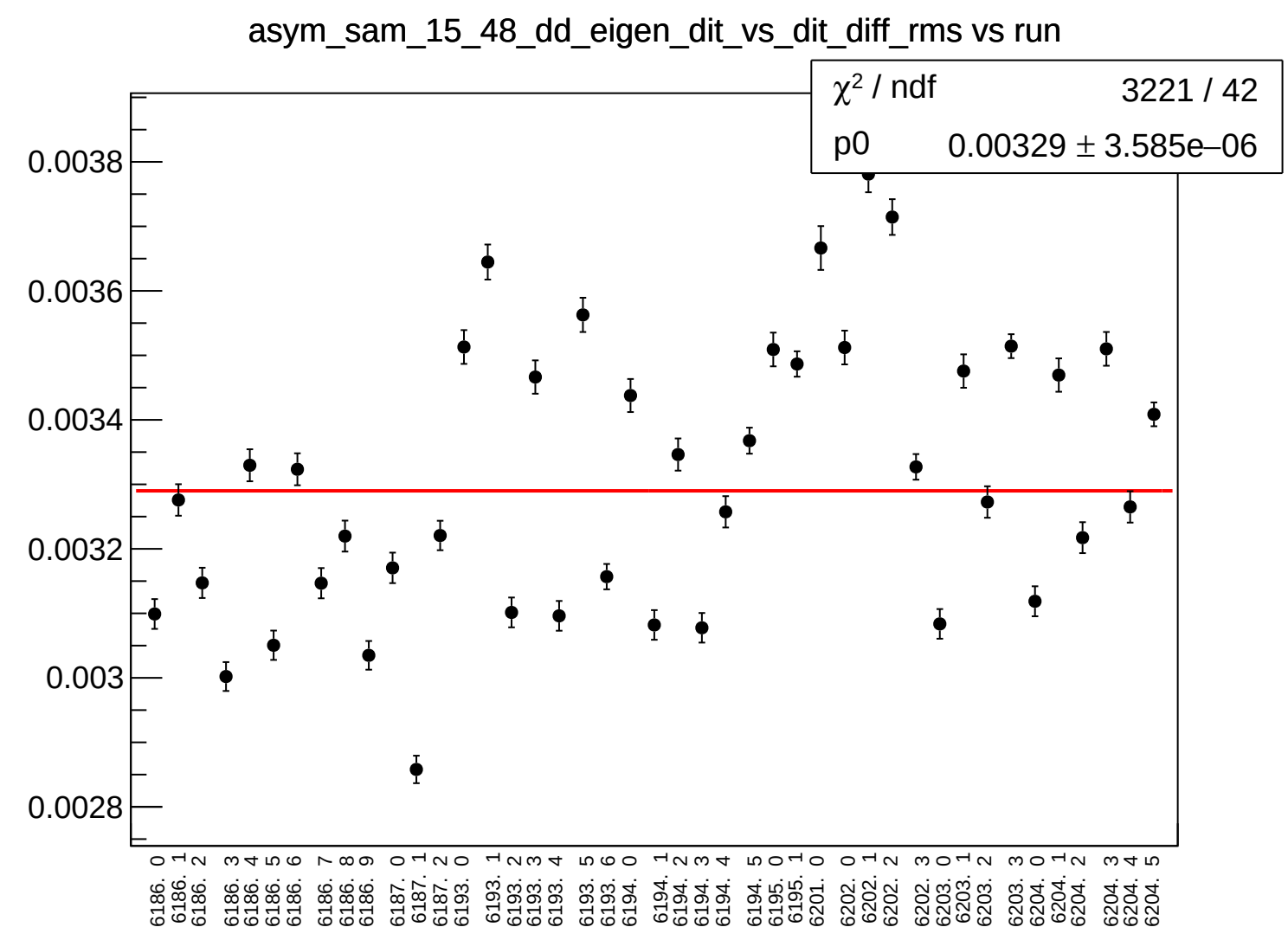
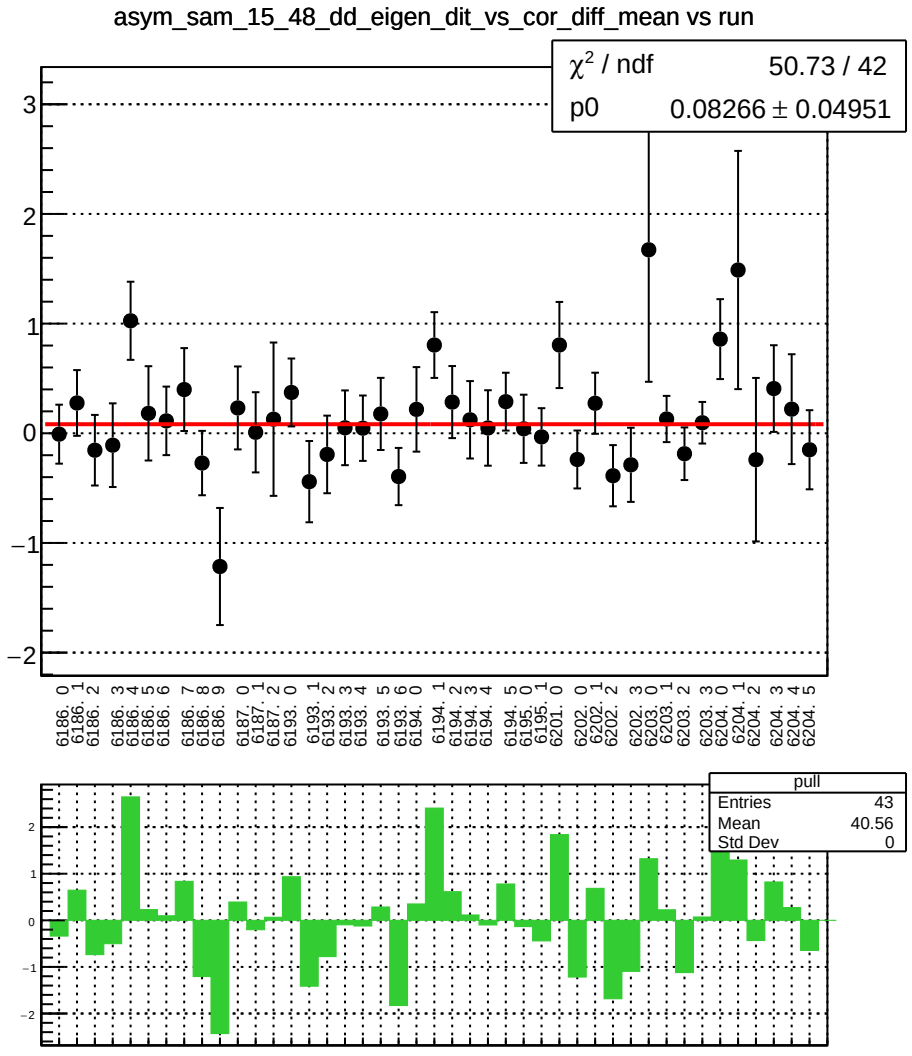
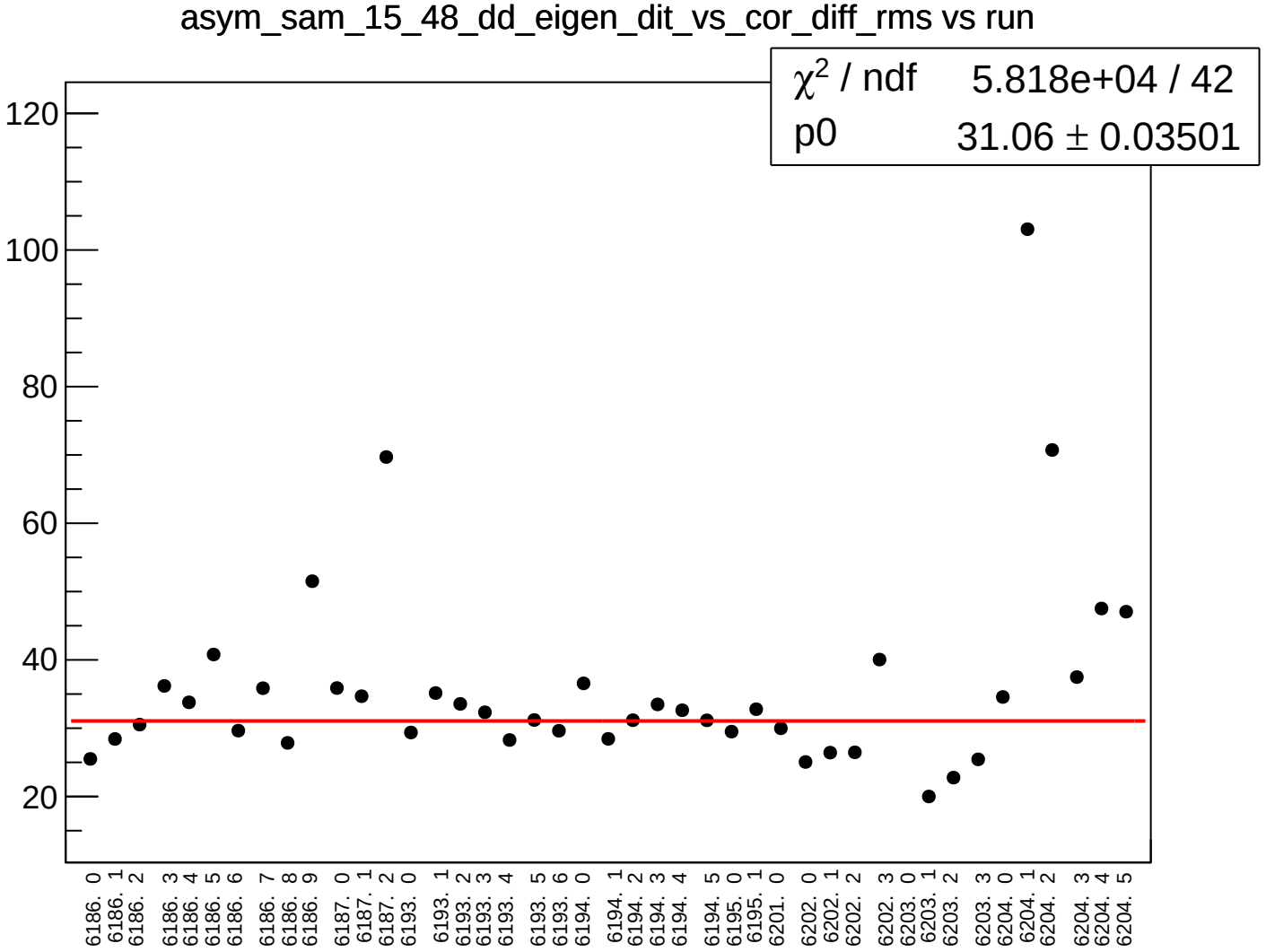
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

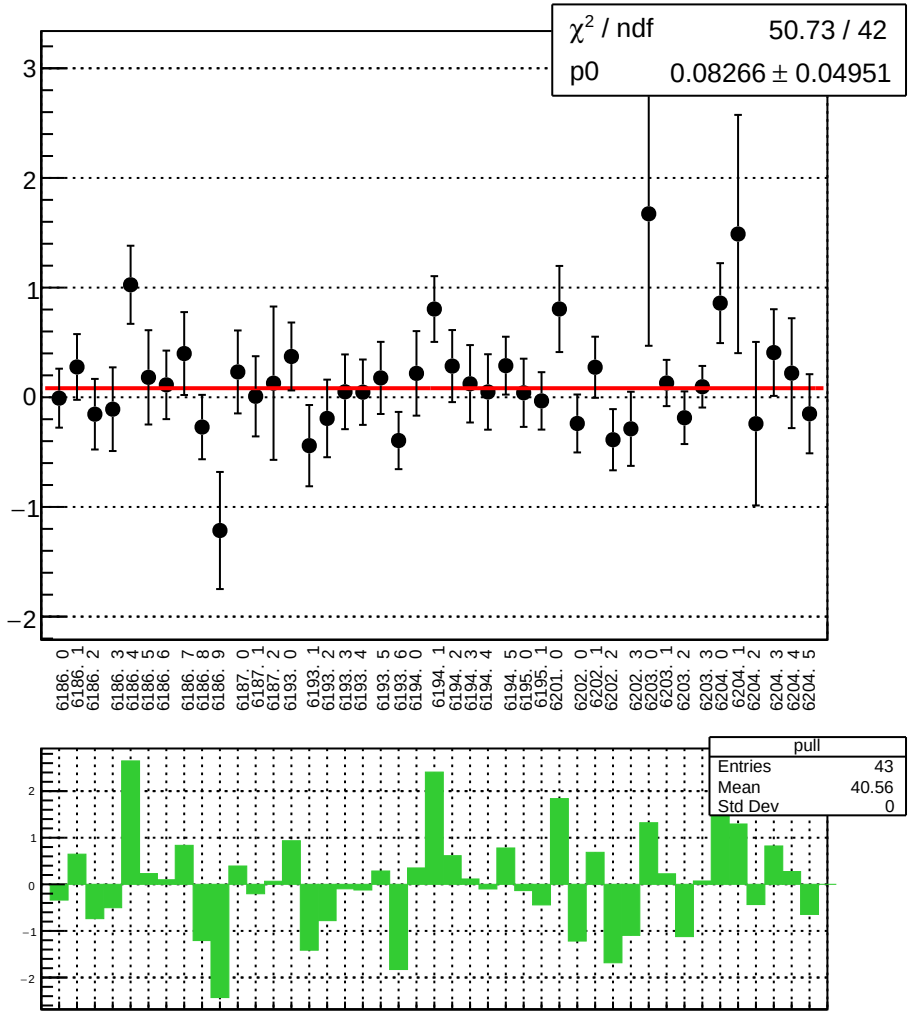

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 57.38 / 42
p0 −5.319e−06 ± 5.07e−06
0.1
0.05
0
−0.05
−0.1
−0.15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −81.95
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01186
Std Dev 1.155
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

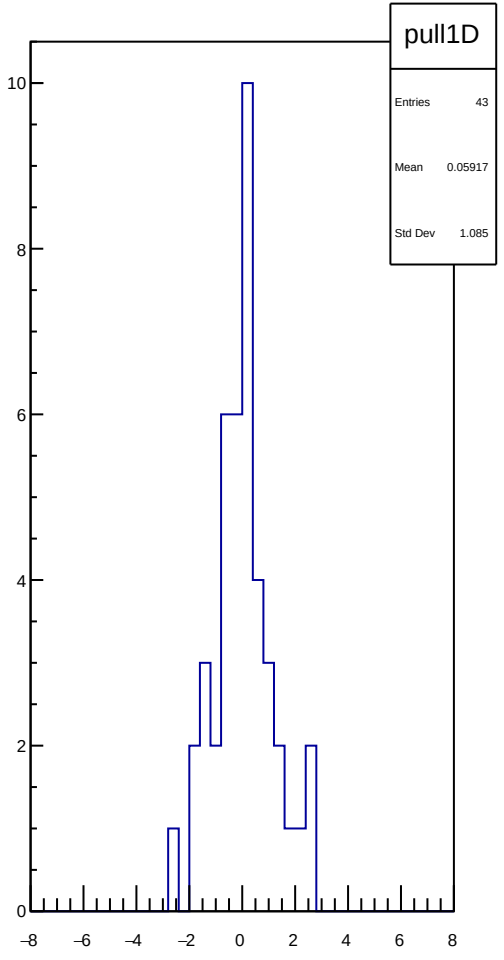

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3221 / 42
p0 0.00329 ± 3.585e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

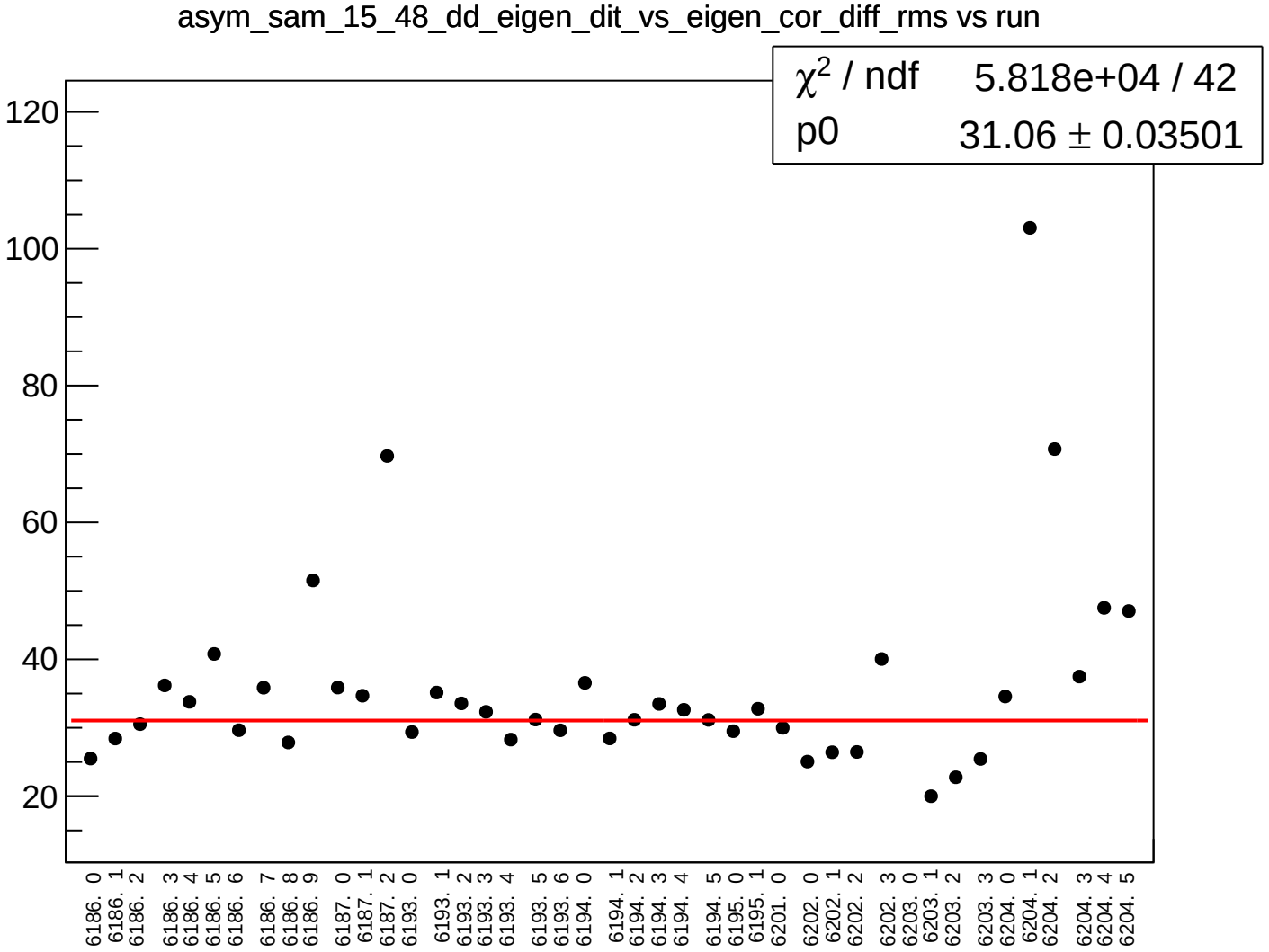

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 50.73 / 42
p0 0.08266 ± 0.04951
pull
Entries 43
Mean 40.56
Std Dev 0
pull1D
Entries 43
Mean 0.05917
Std Dev 1.085

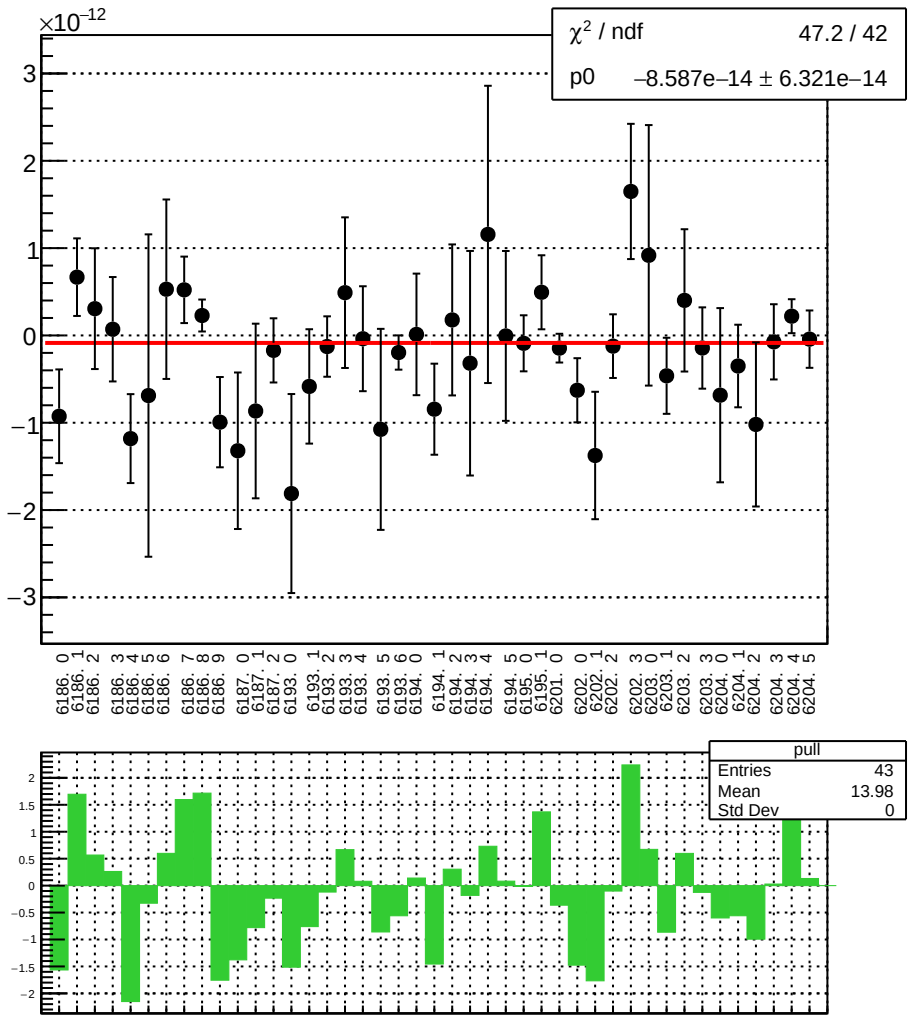

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.818e+04 / 42
p0 31.06 ± 0.03501
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

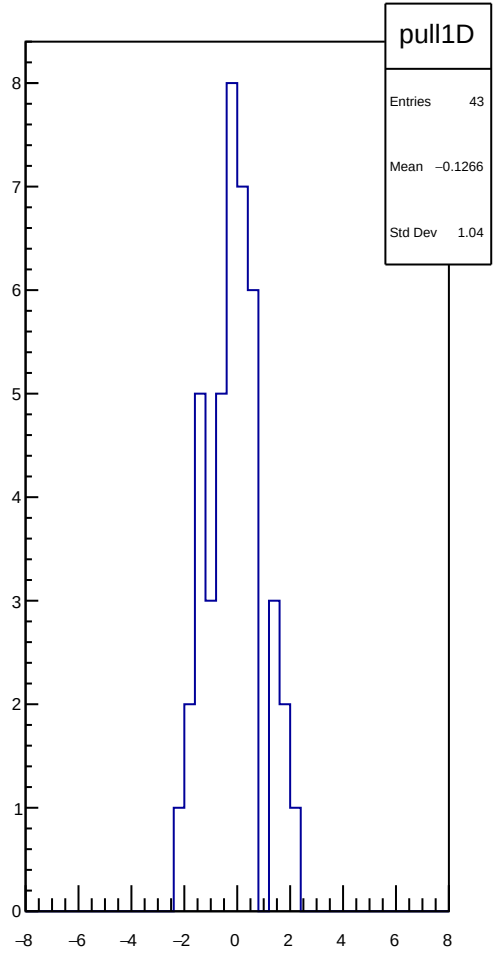
asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

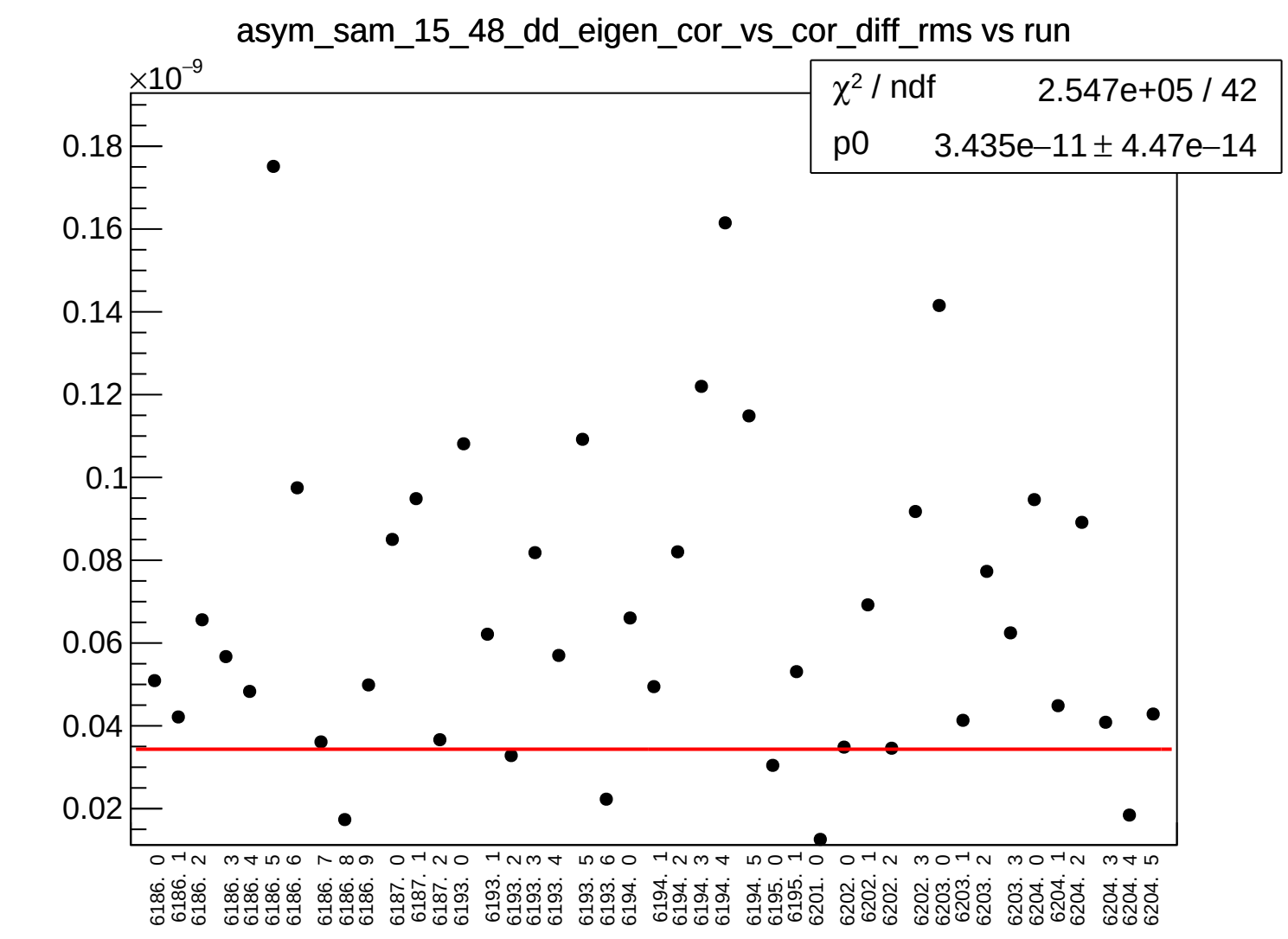


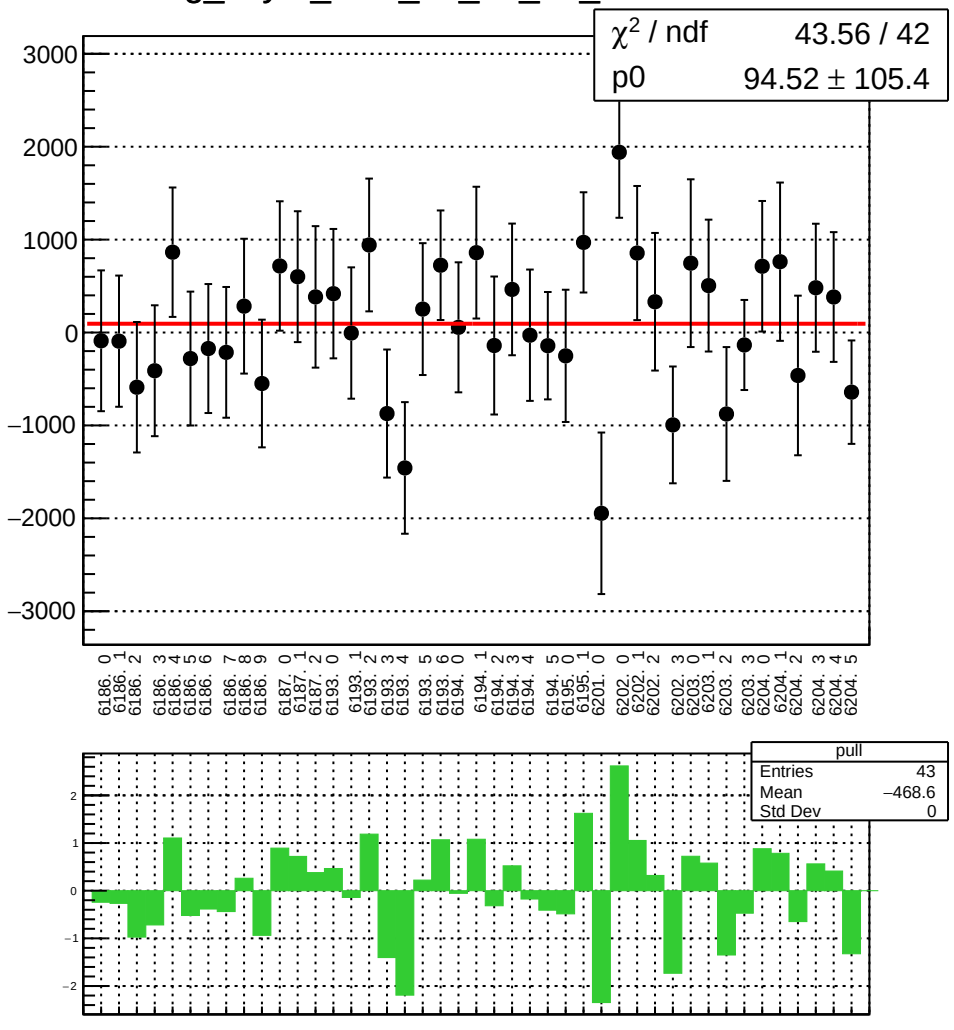


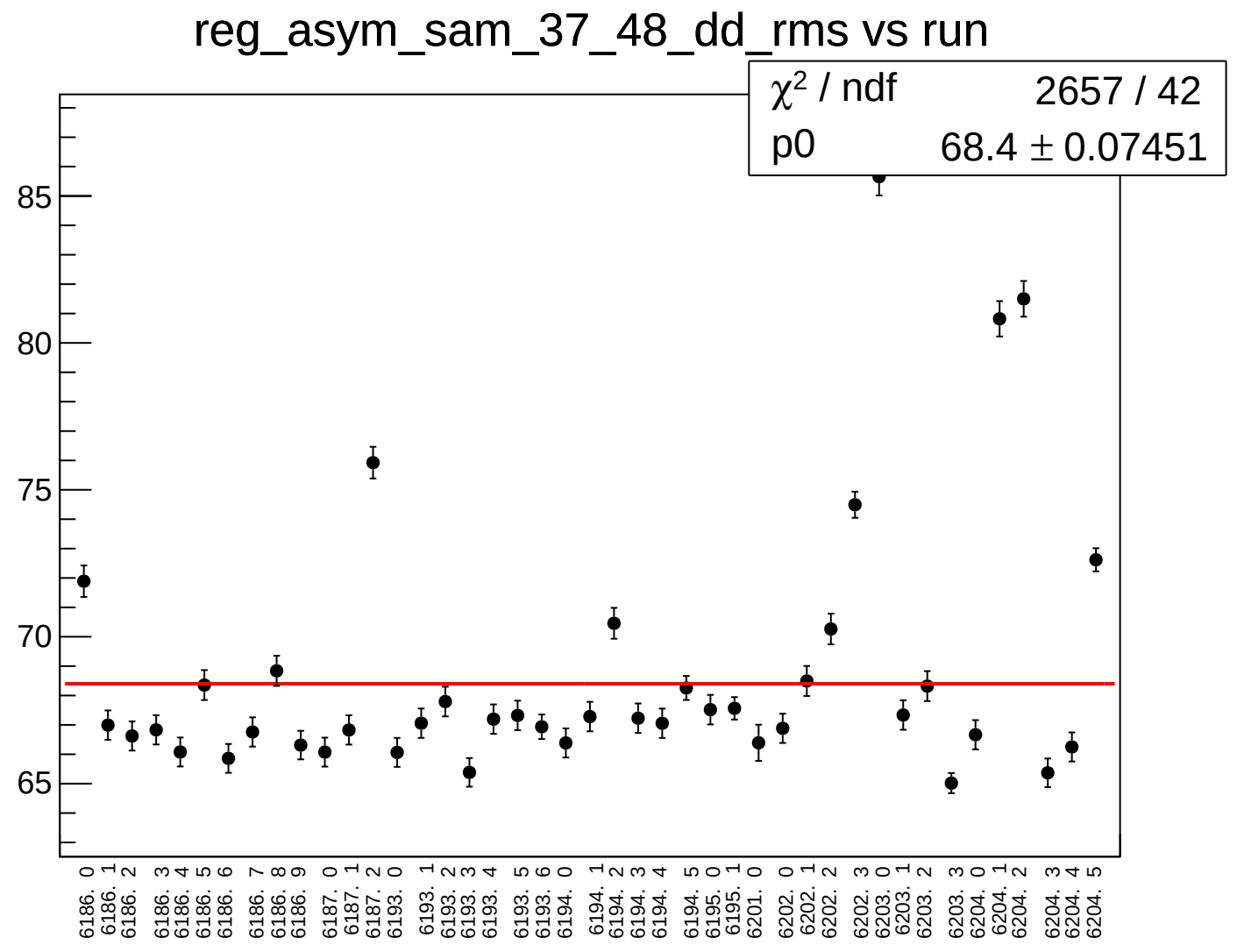

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 5.818e+04 / 42
p0 31.06 ± 0.03501
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

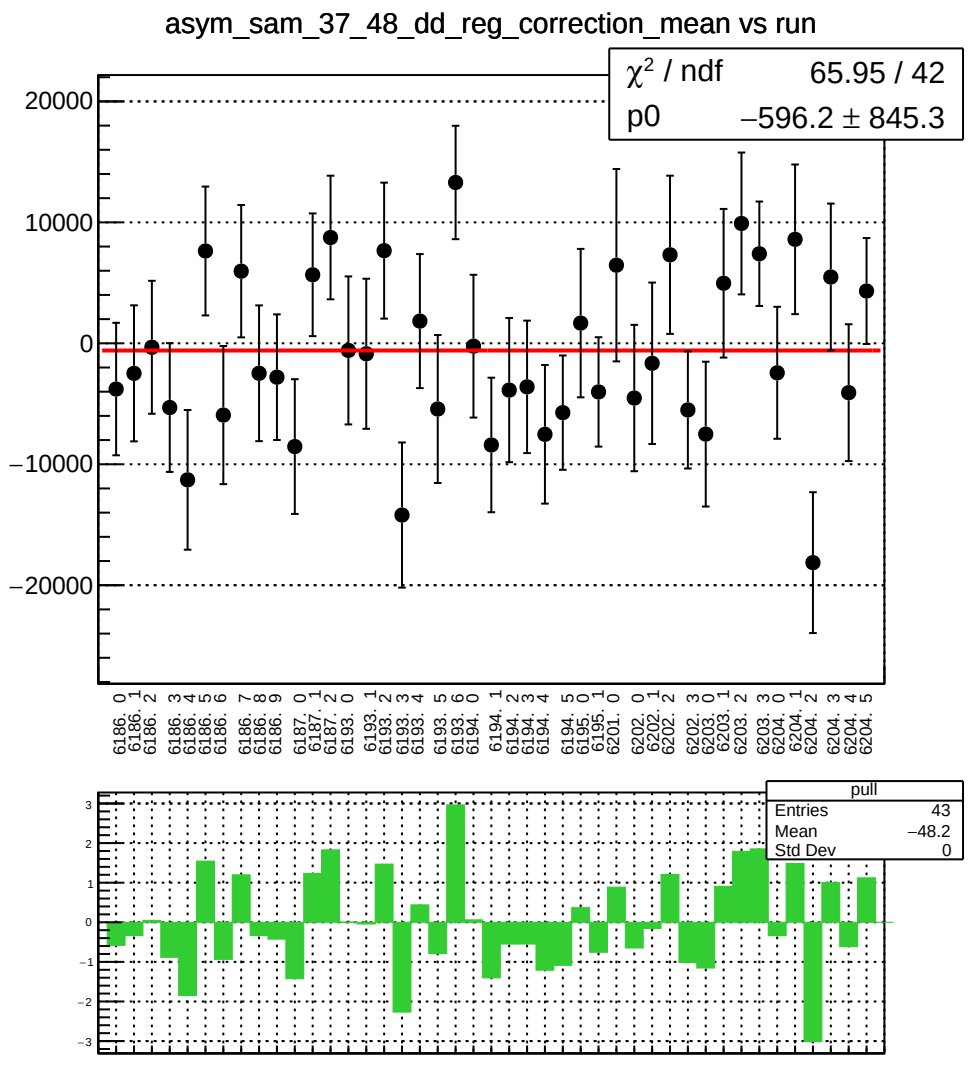

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 47.2 / 42
p0 −8.587e−14 ± 6.321e−14
pull
Entries 43
Mean 13.98
Std Dev 0

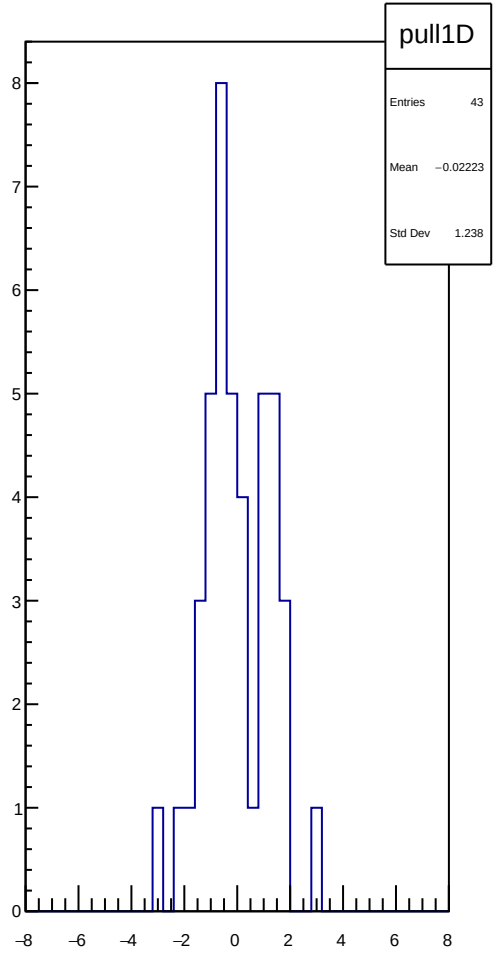

pull1D
Entries 43
Mean −0.1266
Std Dev 1.04

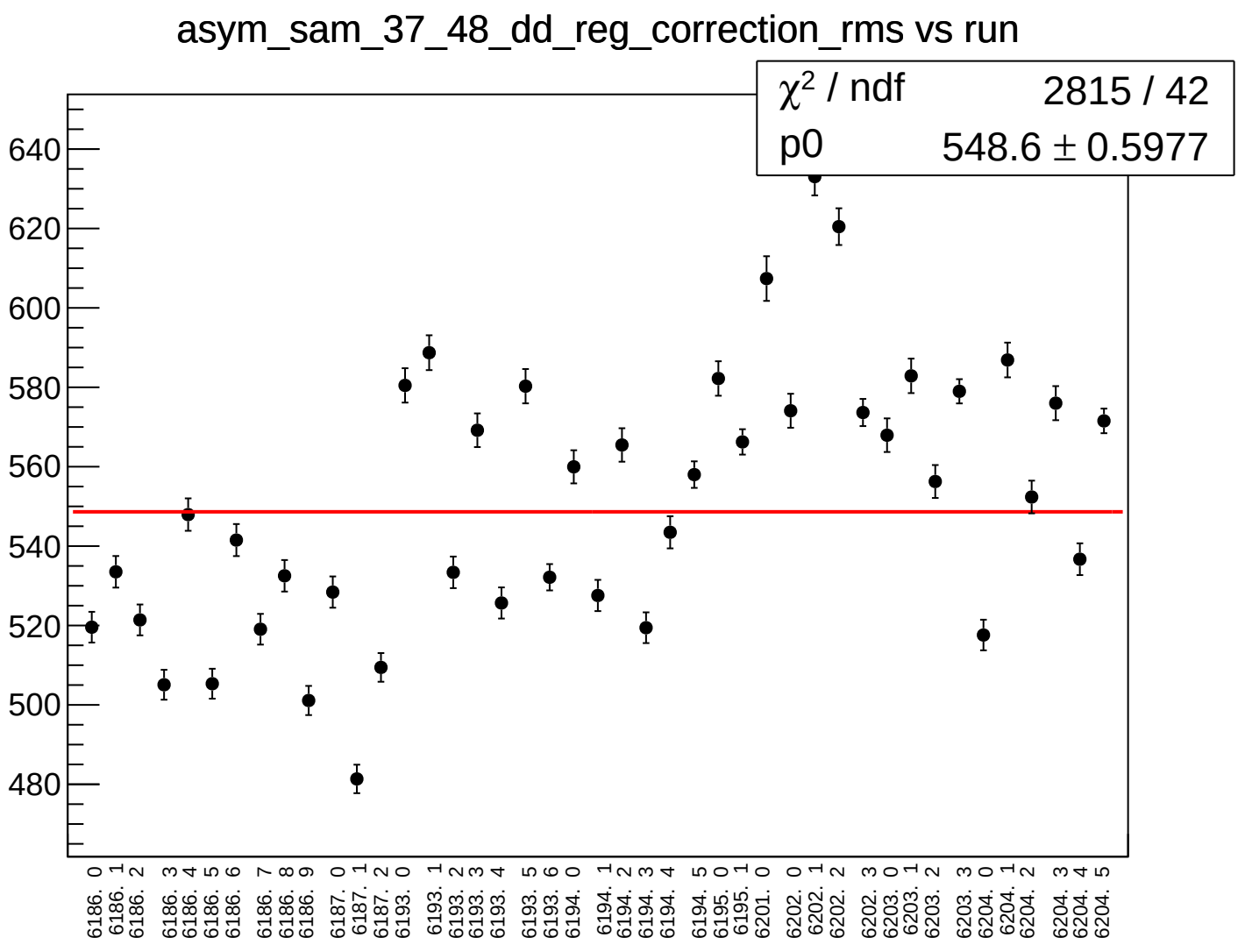

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.547e+05 / 42
p0 3.435e−11 ± 4.47e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

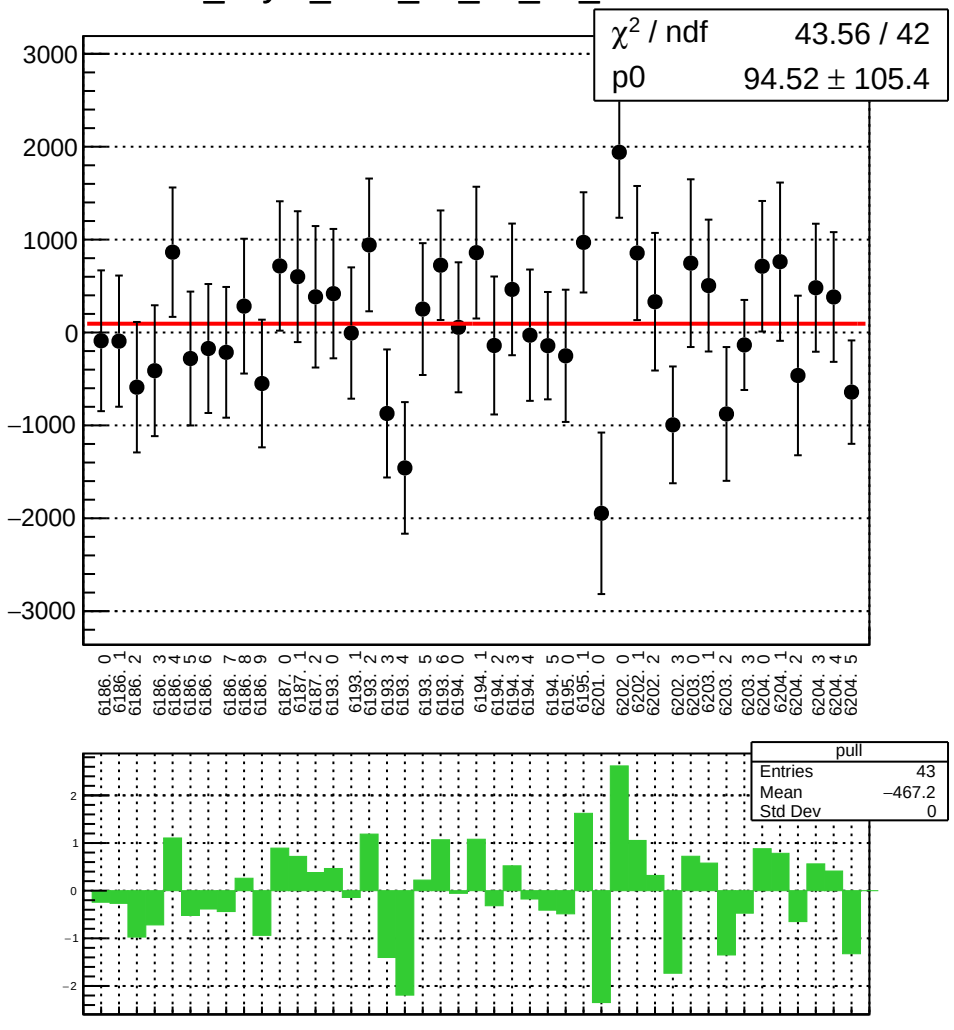

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 43.56 / 42
p0 94.52 ± 105.4
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −468.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.00166
Std Dev 1.006
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

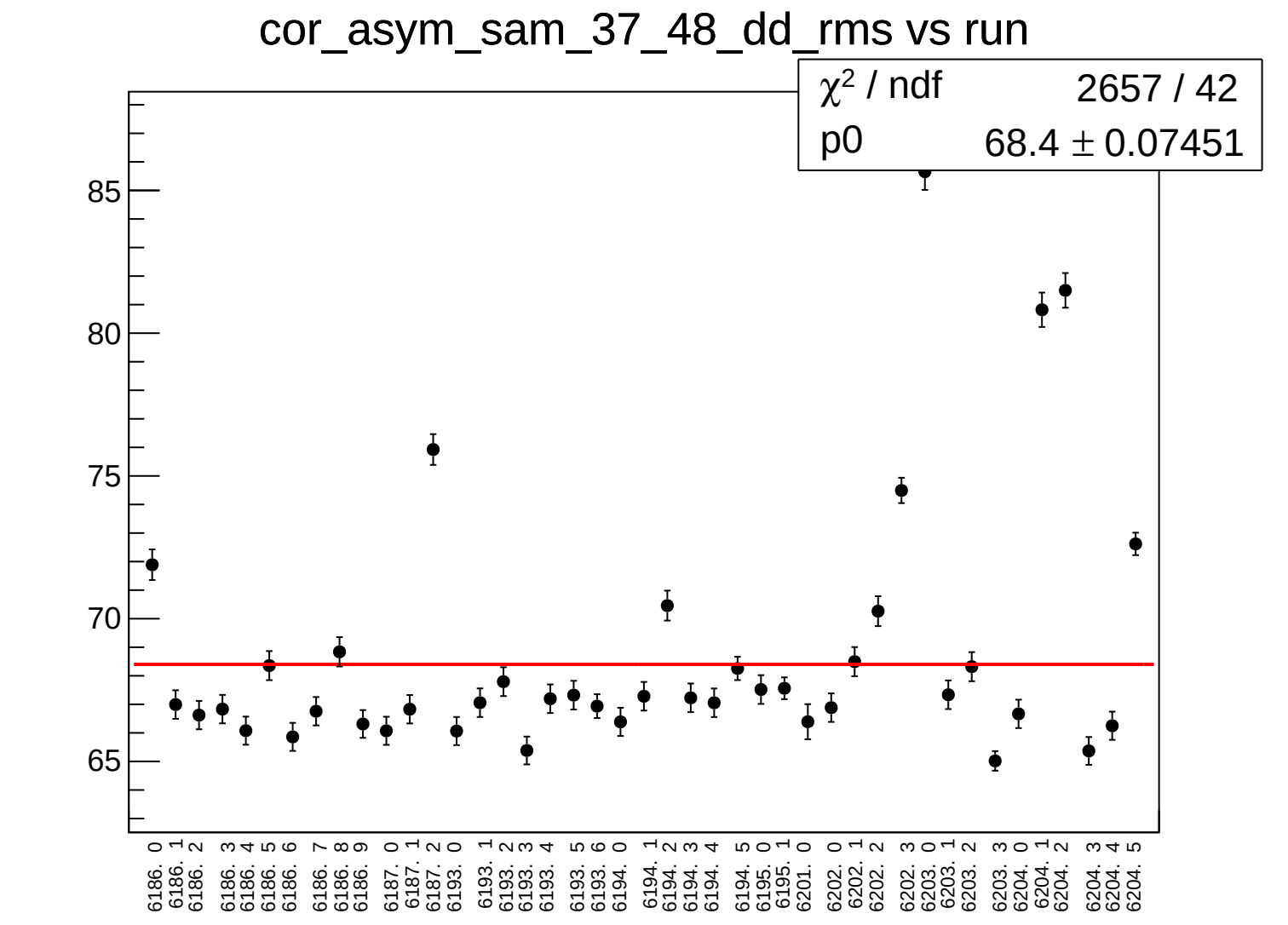

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 2657 / 42
p0 68.4 ± 0.07451
85
80
75
70
65
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

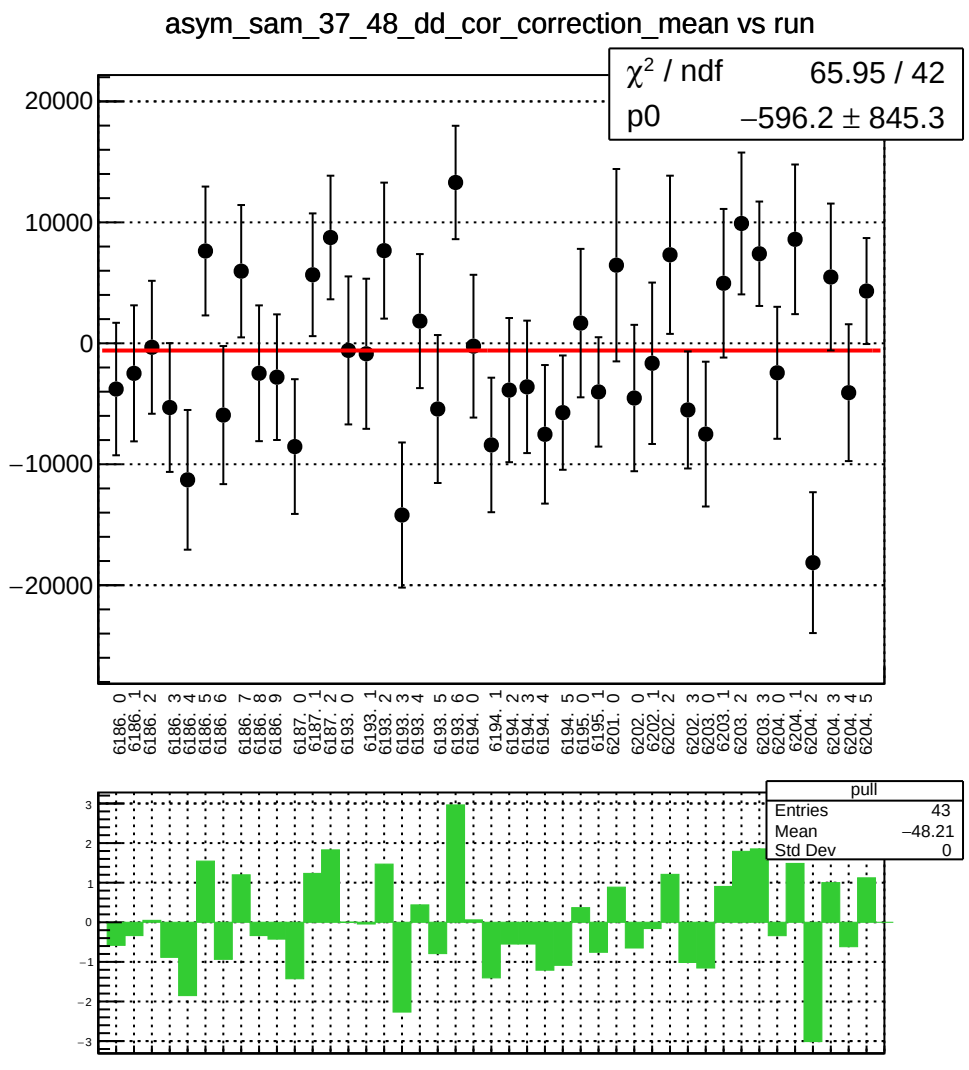

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 65.95 / 42
p0 −596.2 ± 845.3
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −48.2
Std Dev 0
3
2
1
0
−1
−2
−3

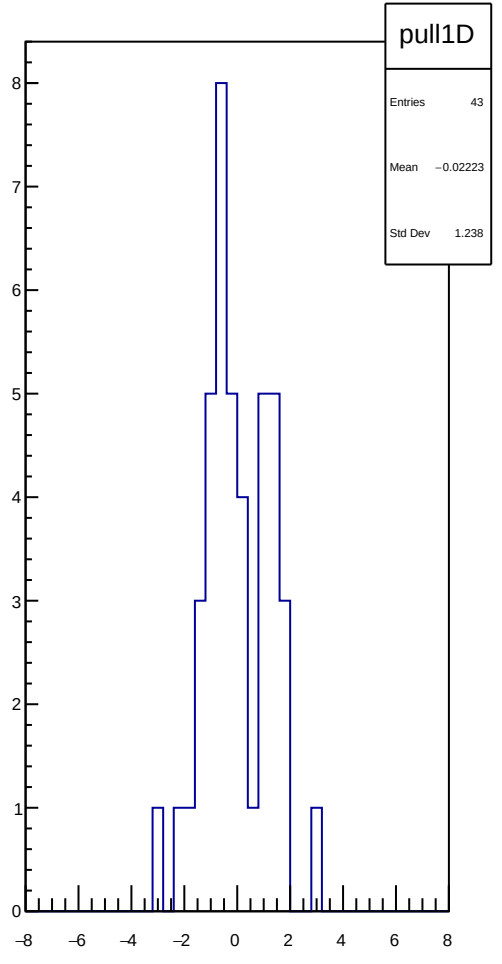

pull1D
Entries 43
Mean −0.02223
Std Dev 1.238
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

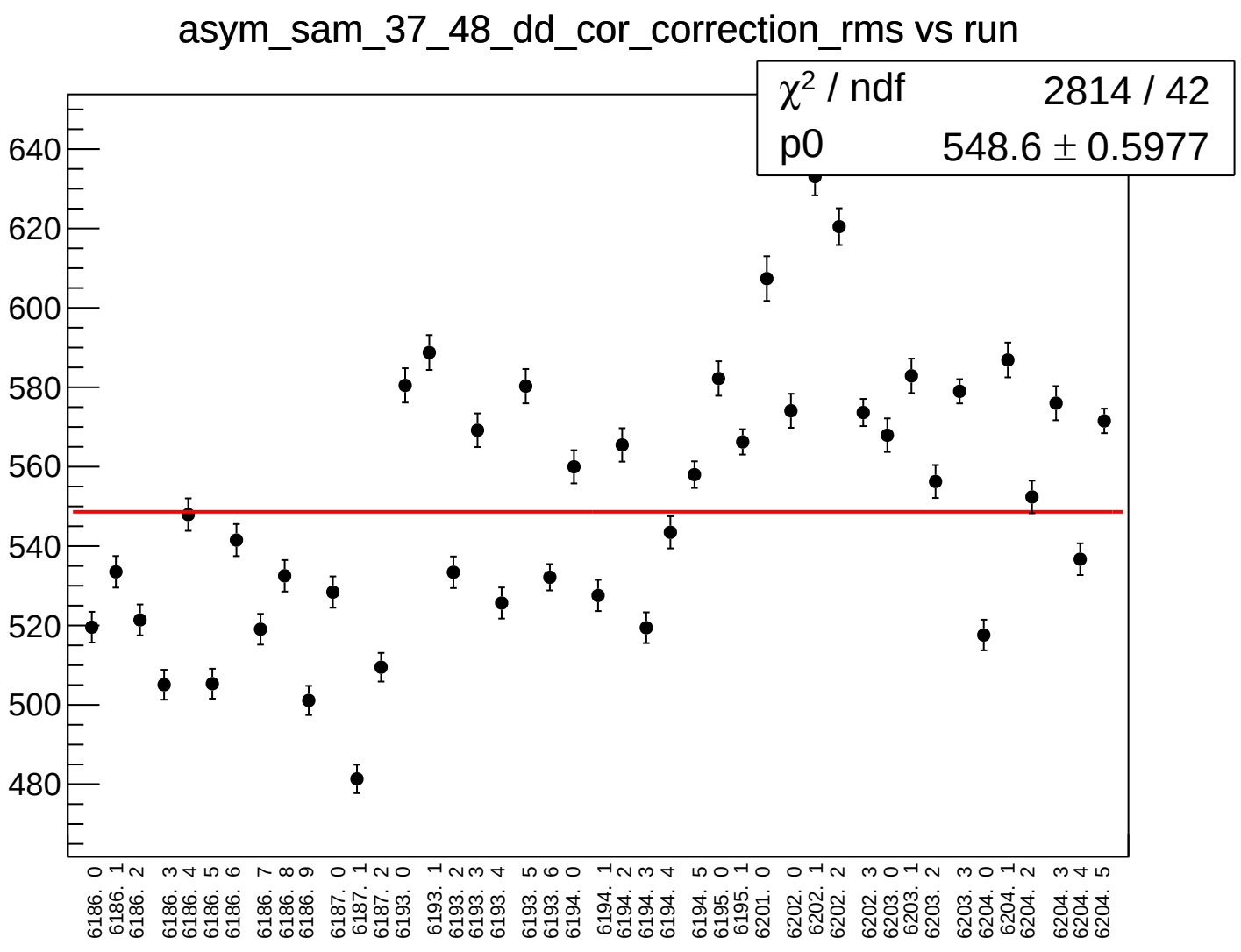

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 2815 / 42
p0 548.6 ± 0.5977
640
620
600
580
560
540
520
500
480
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

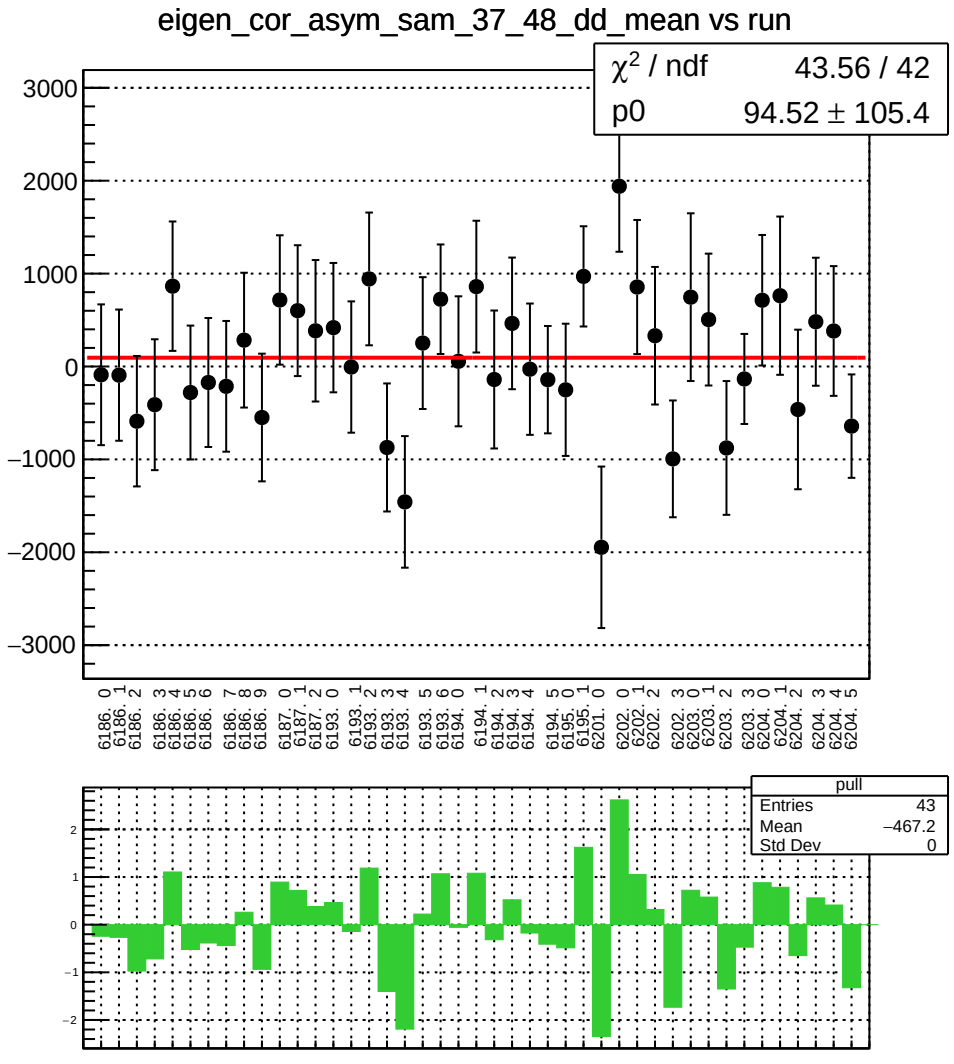

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 43.56 / 42
p0 94.52 ± 105.4
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −467.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.001663
Std Dev 1.007
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

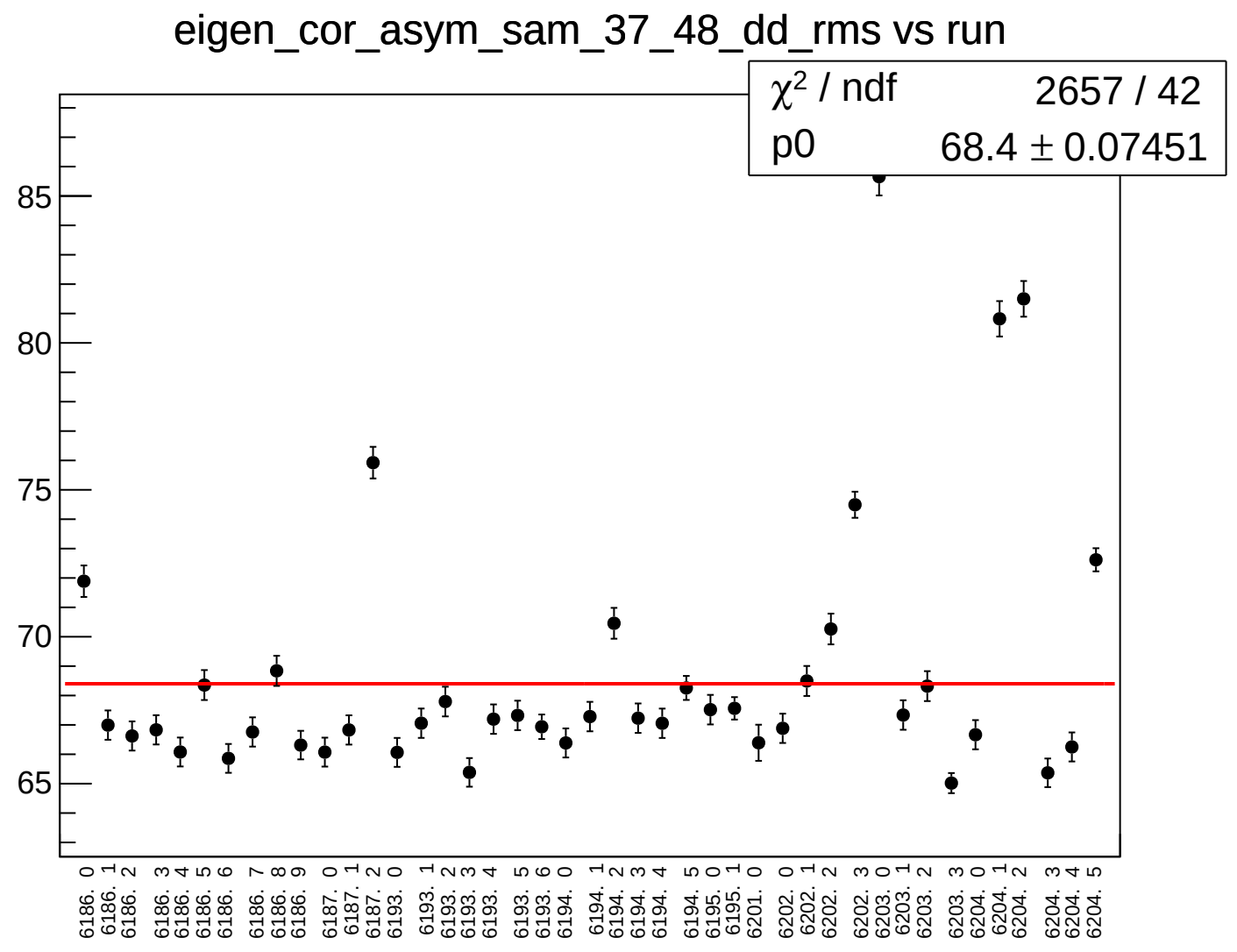

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 2657 / 42
p0 68.4 ± 0.07451
85
80
75
70
65
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

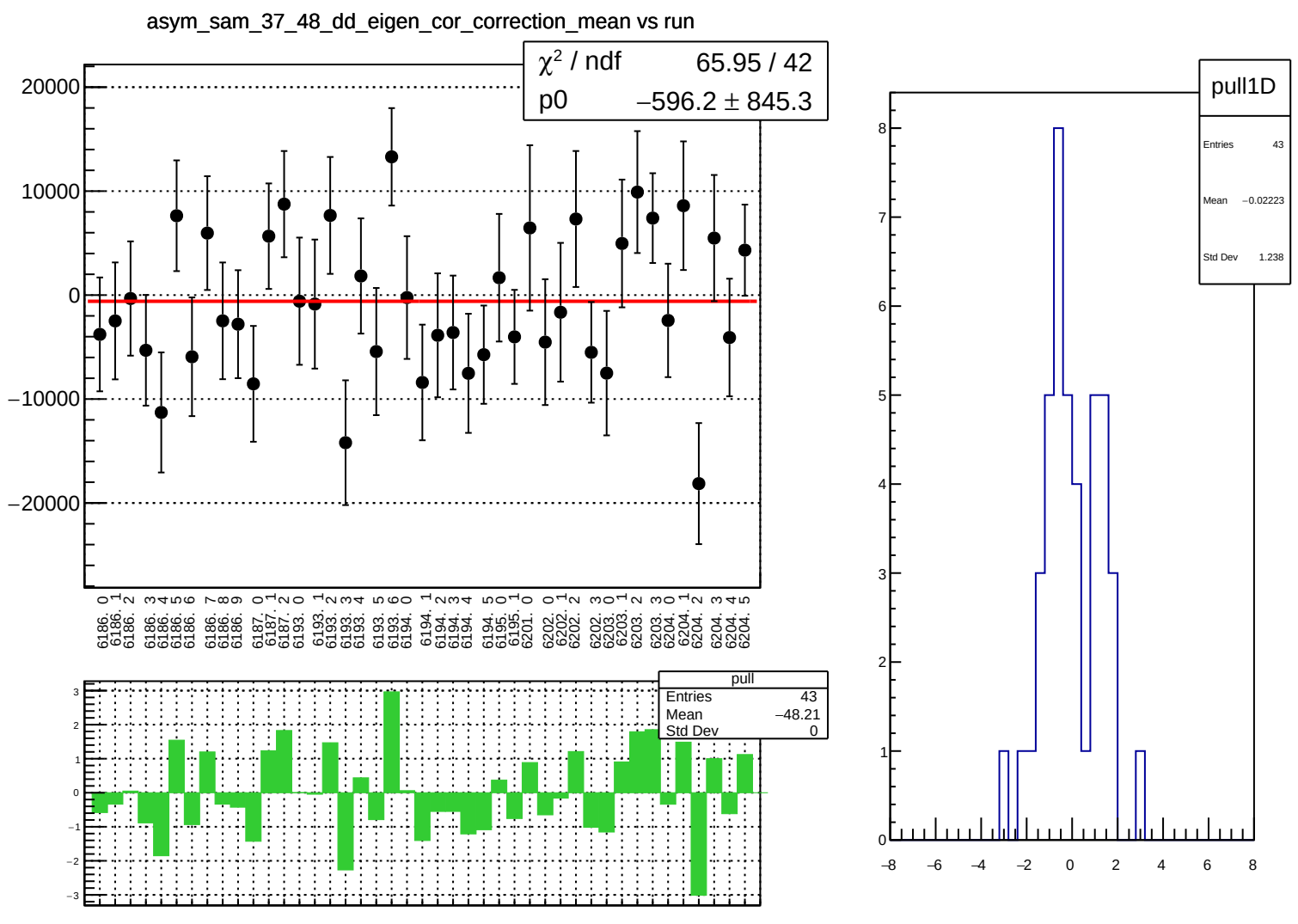

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 65.95 / 42
p0 −596.2 ± 845.3
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −48.21
Std Dev 0
3
2
1
0
−1
−2
−3

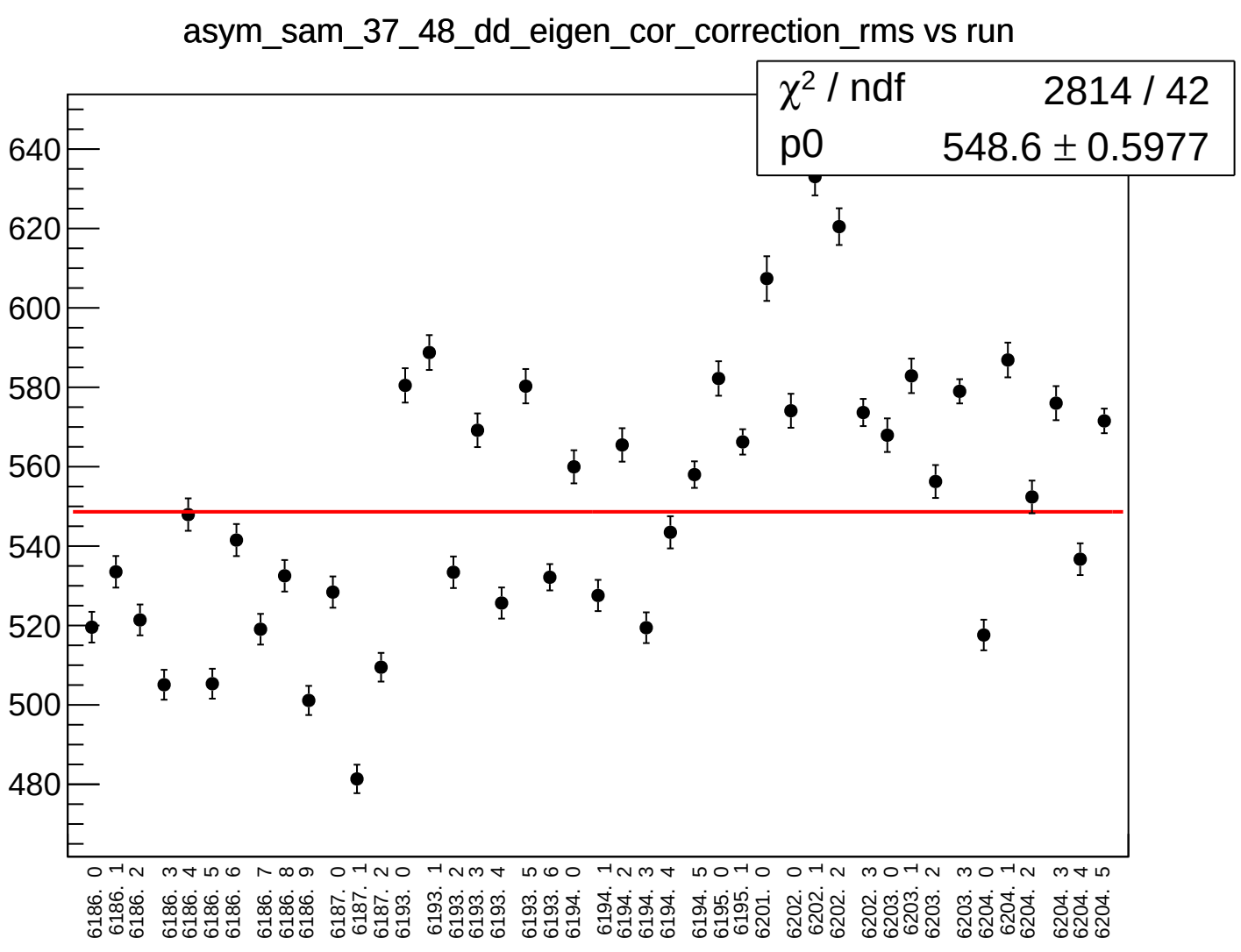

pull1D
Entries 43
Mean −0.02223
Std Dev 1.238
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

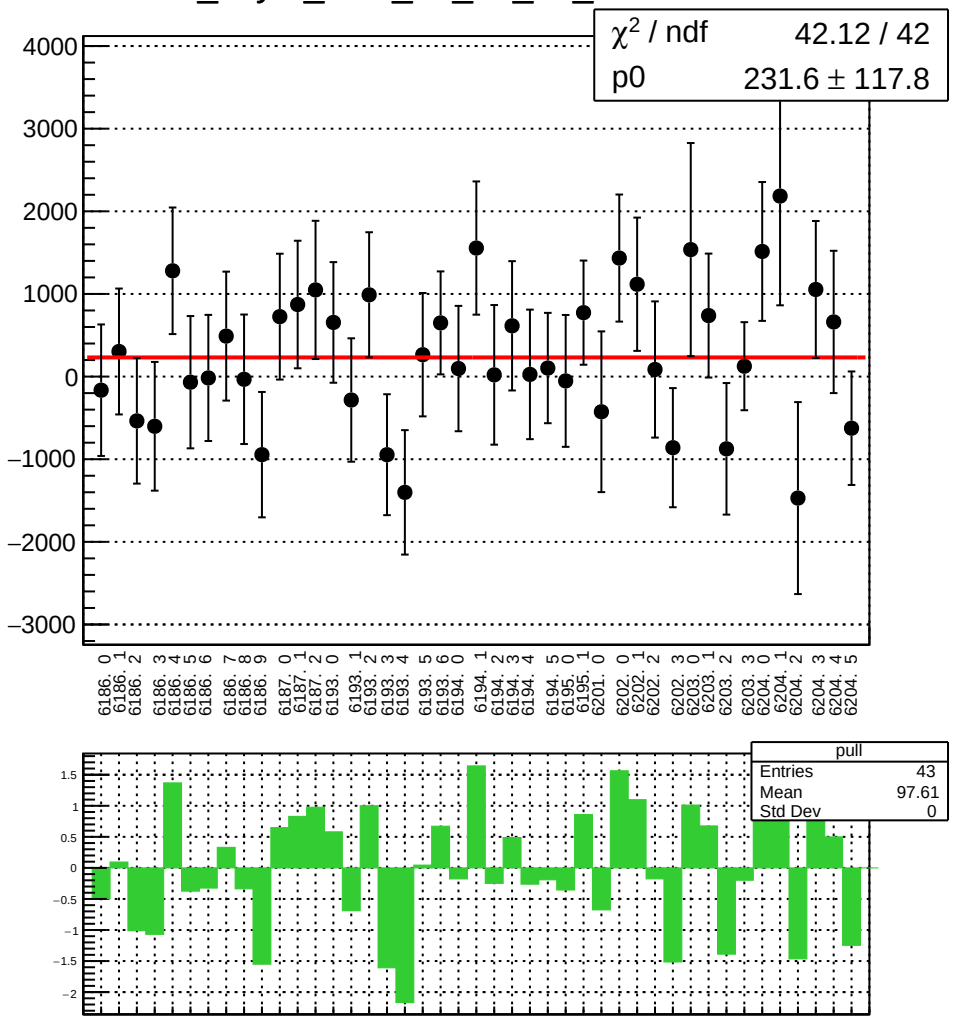

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 2814 / 42
p0 548.6 ± 0.5977
640
620
600
580
560
540
520
500
480
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

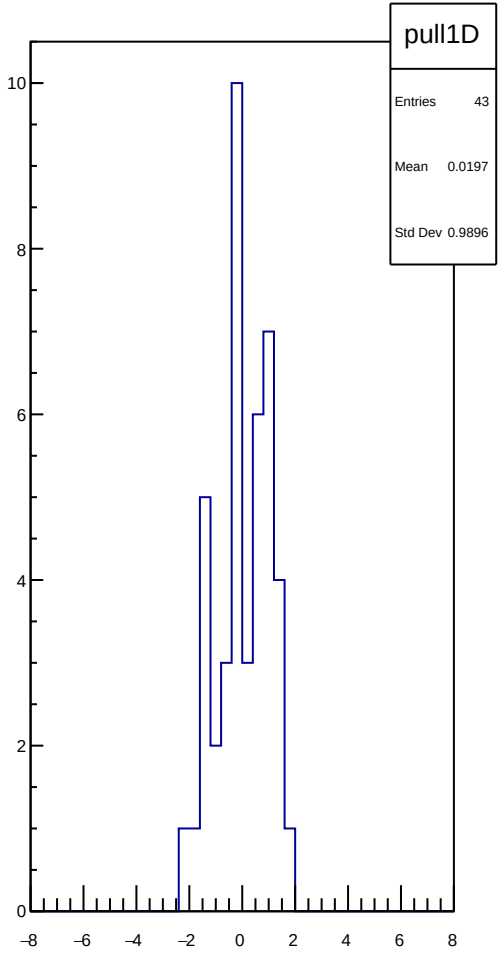

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 43.56 / 42
p0 94.52 ± 105.4
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −467.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.001663
Std Dev 1.007
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

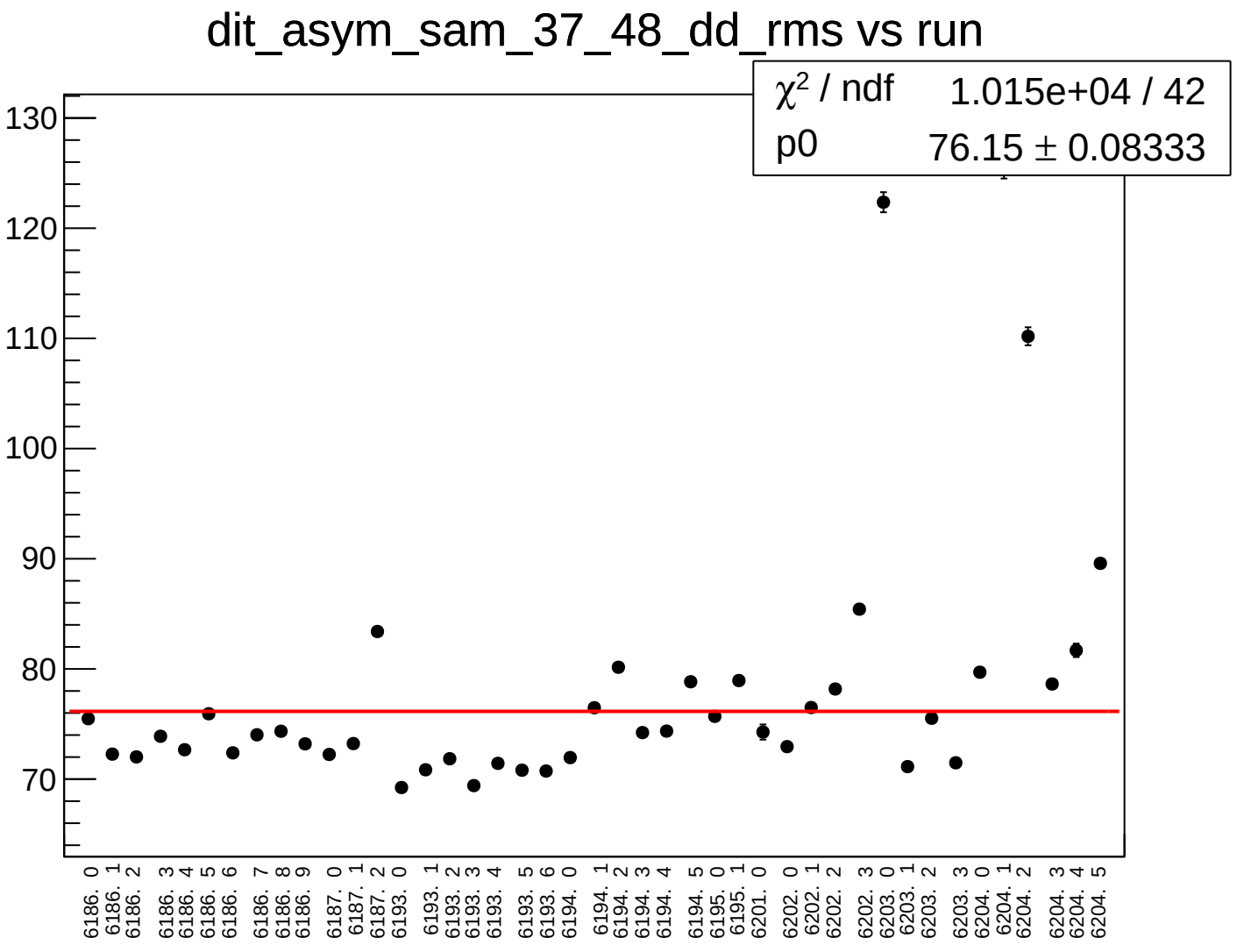

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 2657 / 42
p0 68.4 ± 0.07451
85
80
75
70
65
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

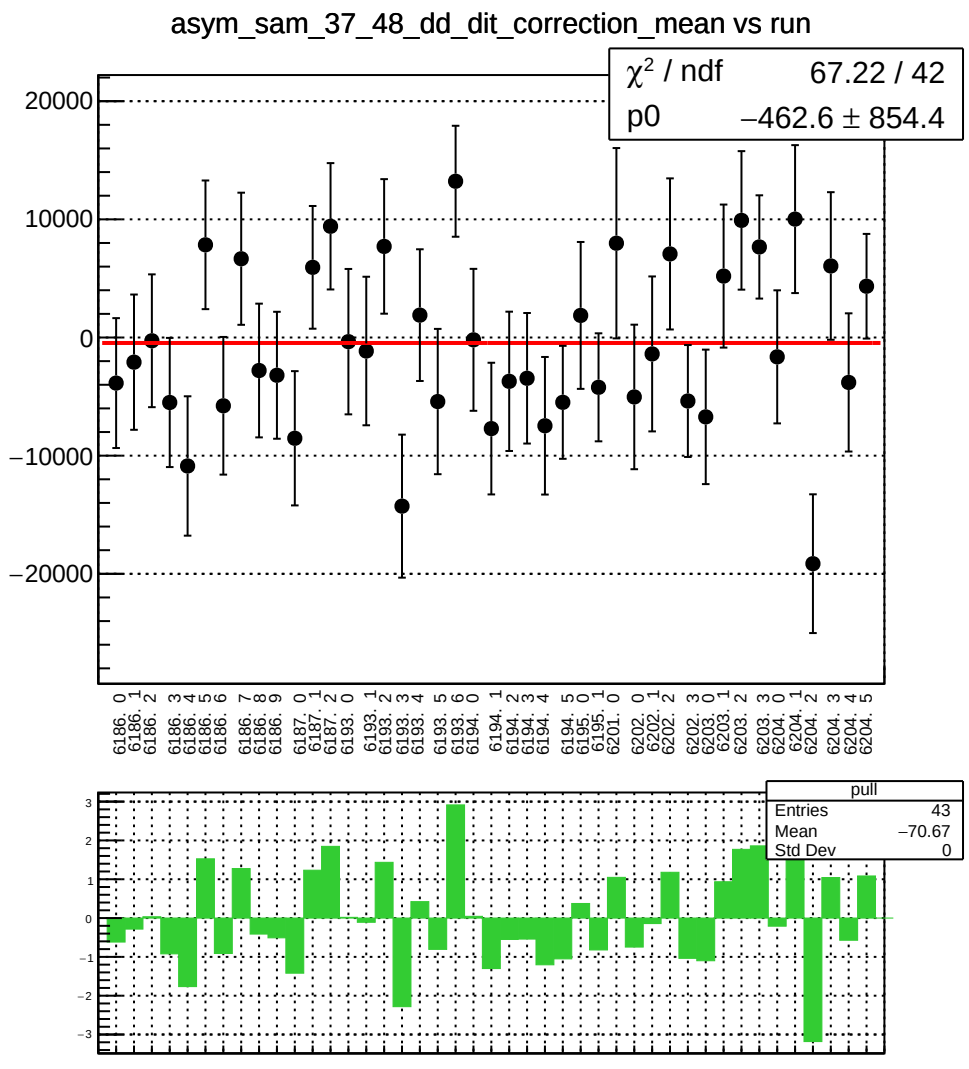

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.95 / 42
p0 −596.2 ± 845.3
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −48.21
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.02223
Std Dev 1.238
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

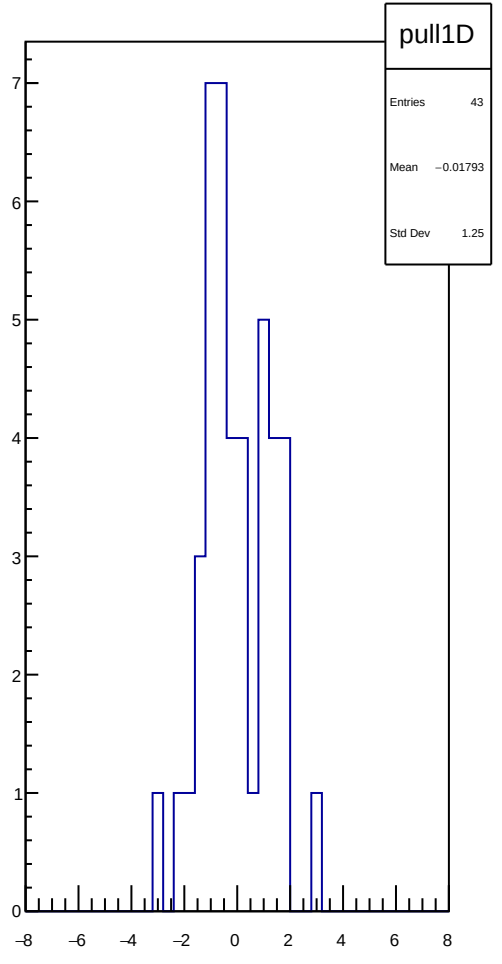

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2814 / 42
p0 548.6 ± 0.5977
640
620
600
580
560
540
520
500
480
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

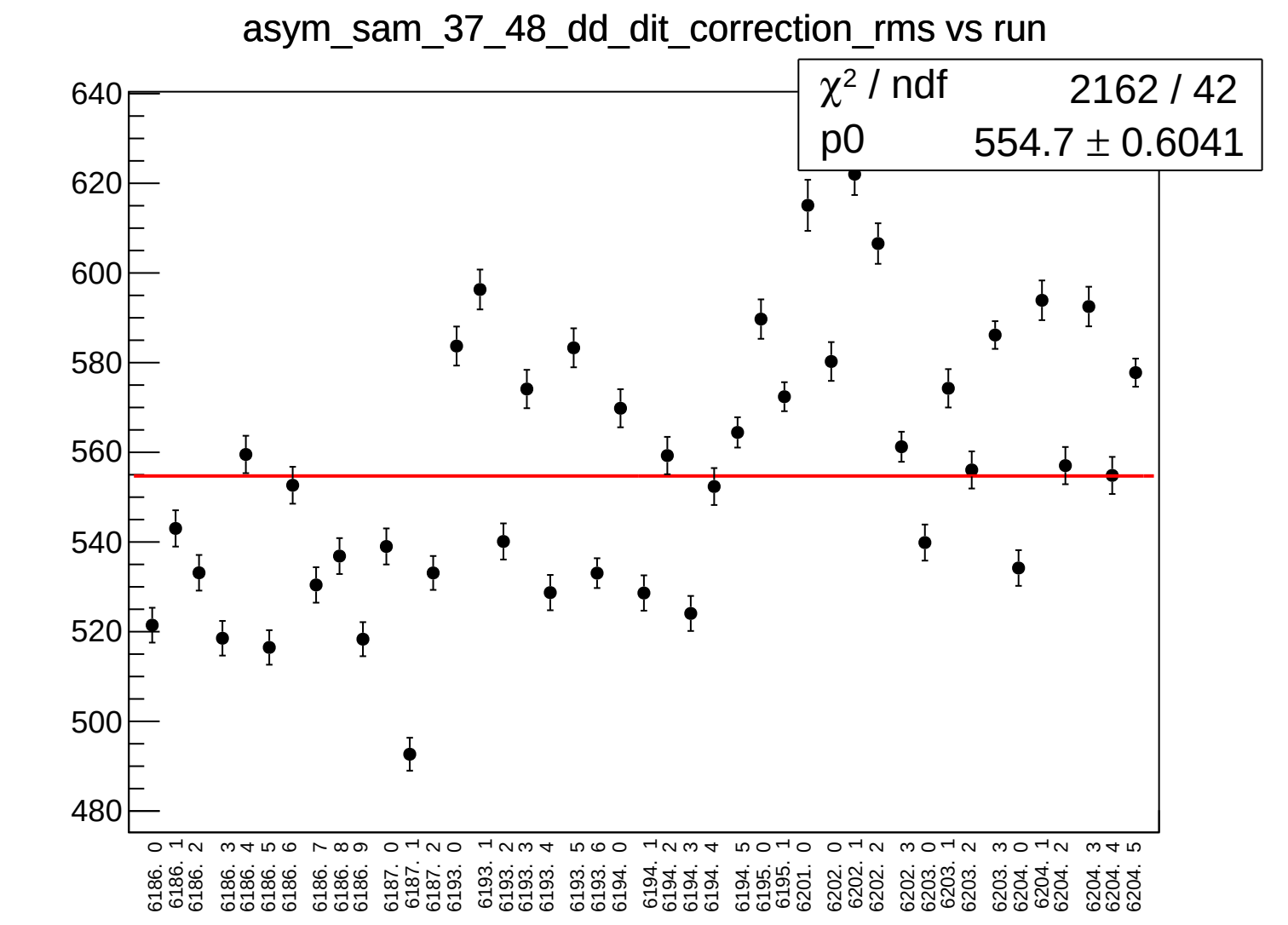

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 42.12 / 42
p0 231.6 ± 117.8
4000
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 97.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

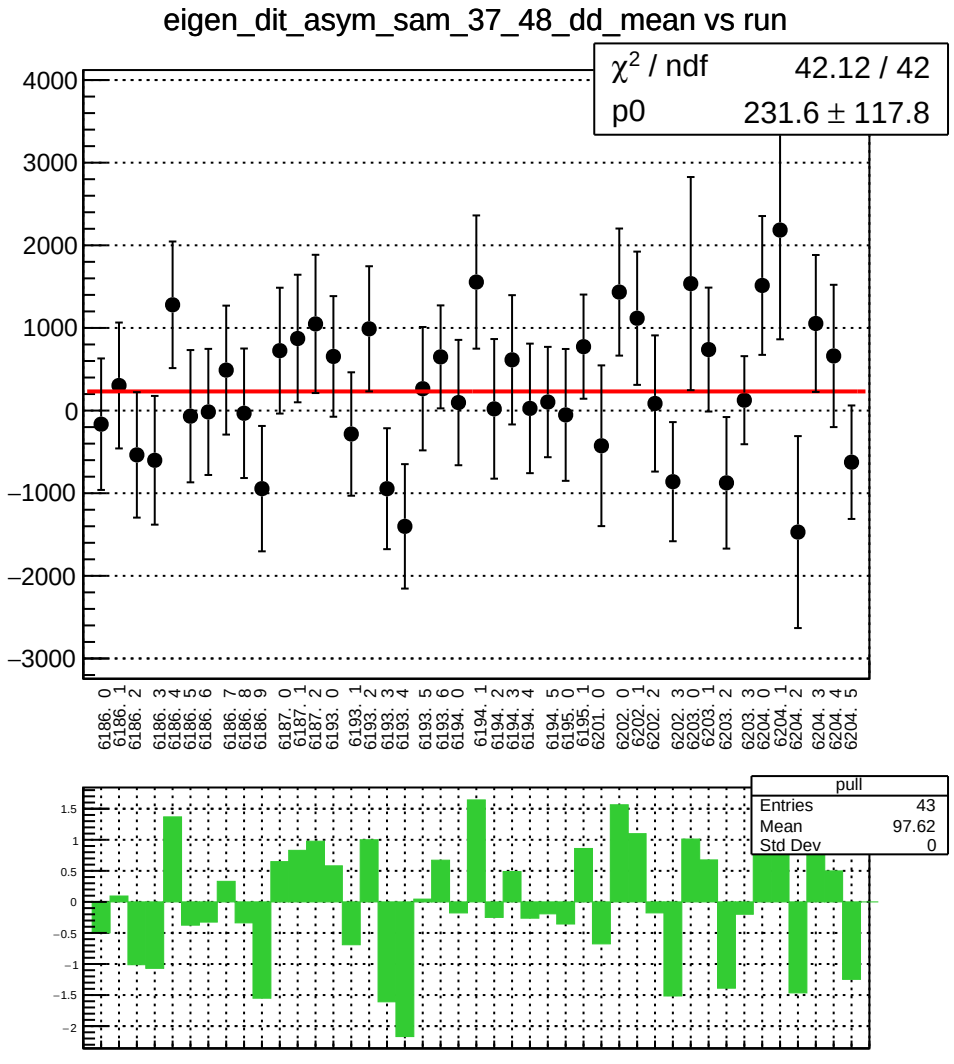

pull1D
Entries 43
Mean 0.0197
Std Dev 0.9896
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

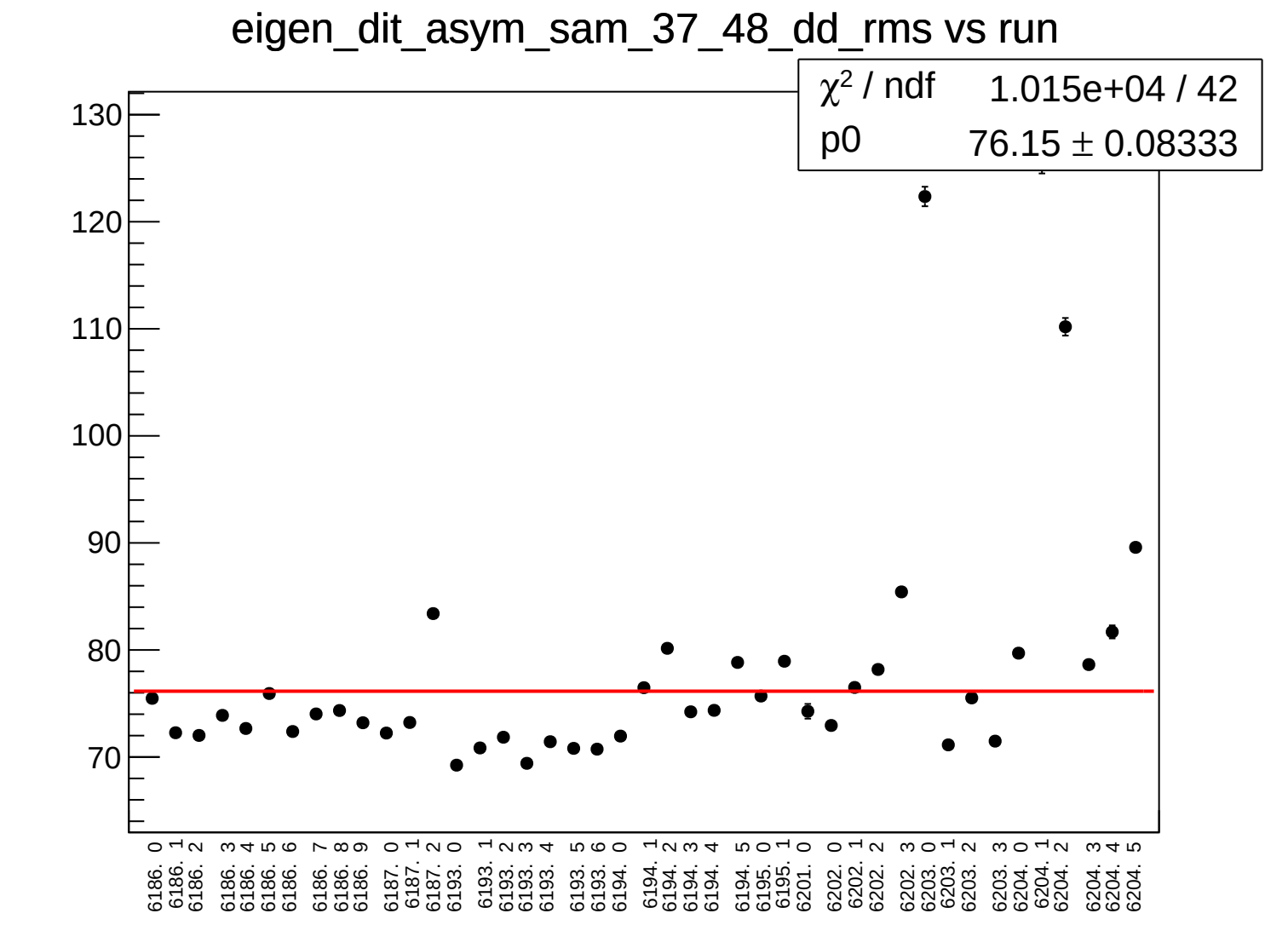

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.015e+04 / 42
p0 76.15 ± 0.08333
130
120
110
100
90
80
70
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

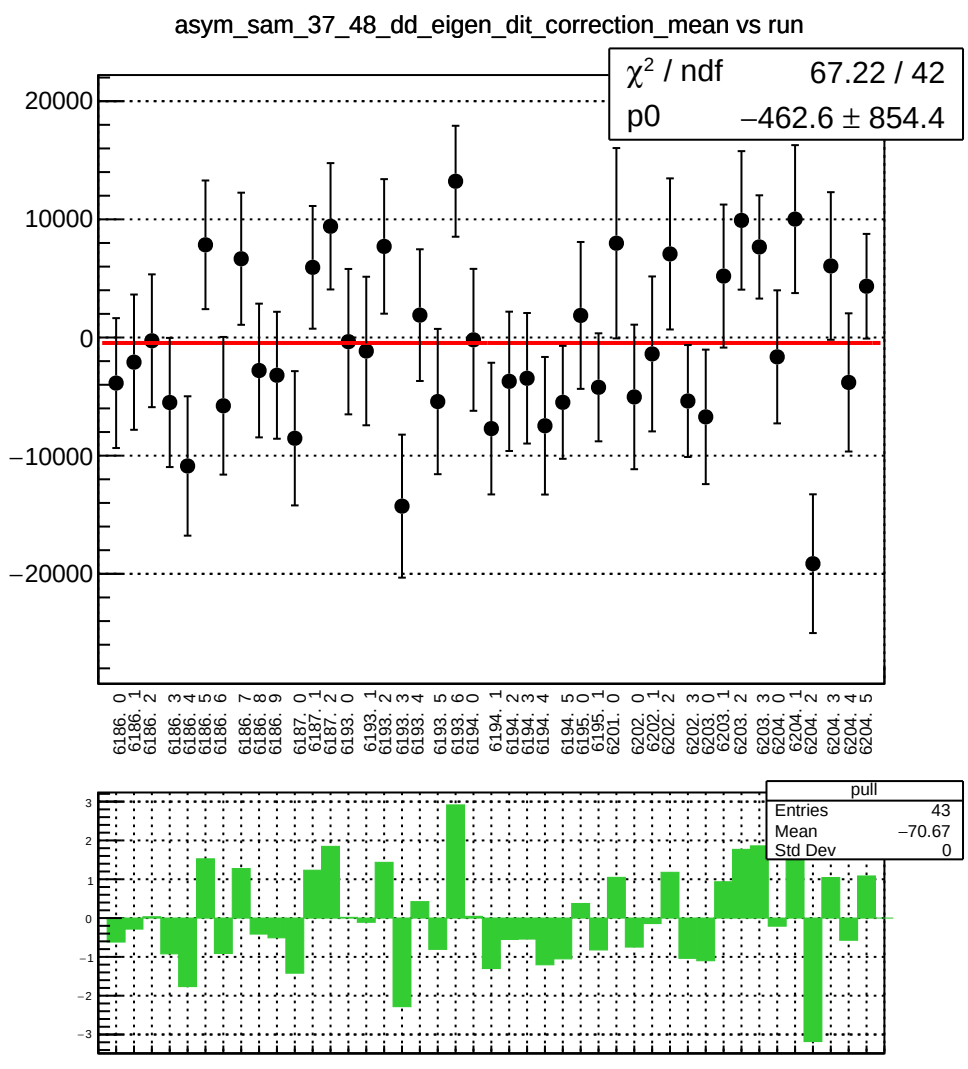

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 67.22 / 42
p0 −462.6 ± 854.4
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −70.67
Std Dev 0
3
2
1
0
−1
−2
−3

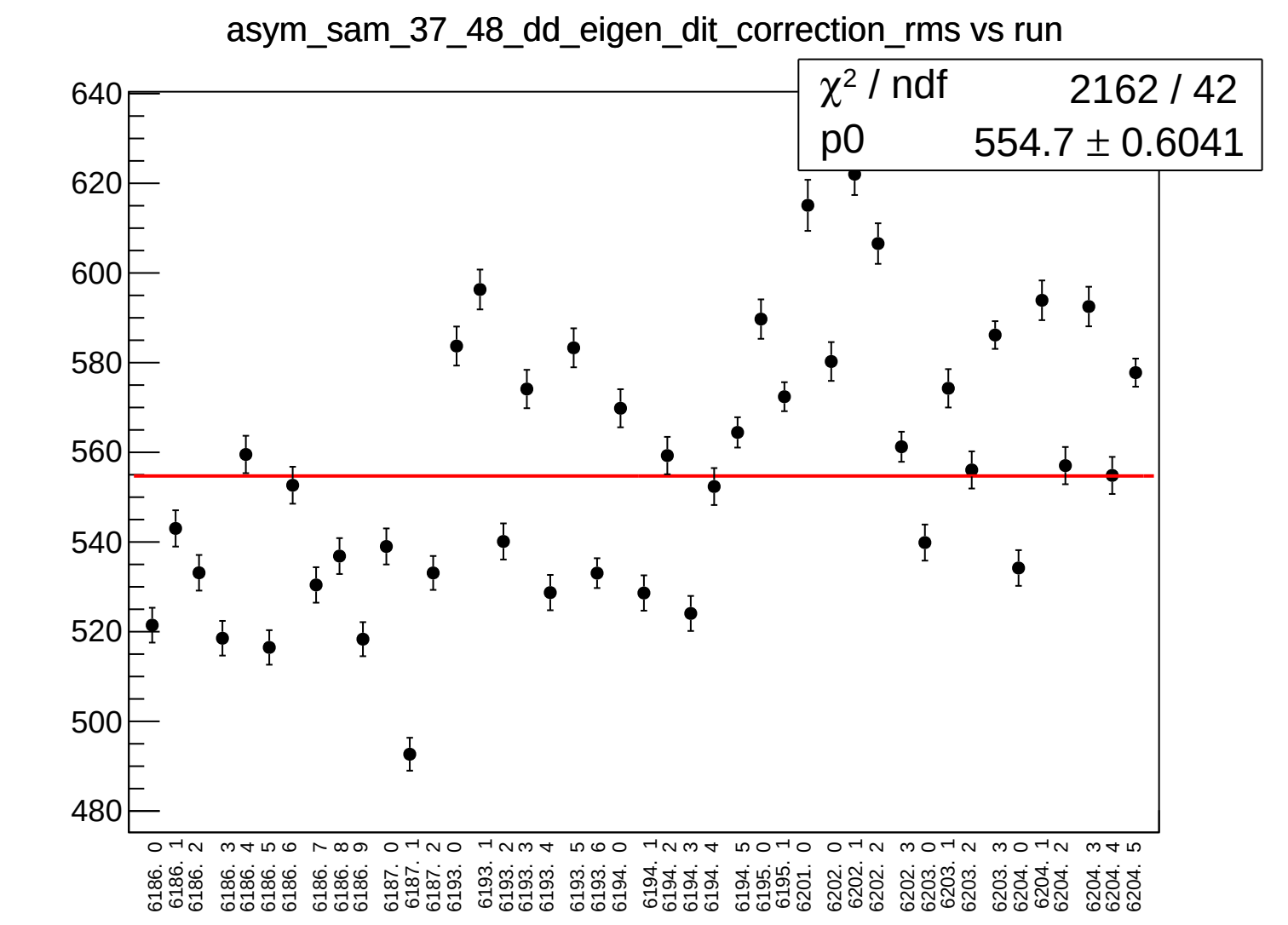

pull1D
Entries 43
Mean −0.01793
Std Dev 1.25
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

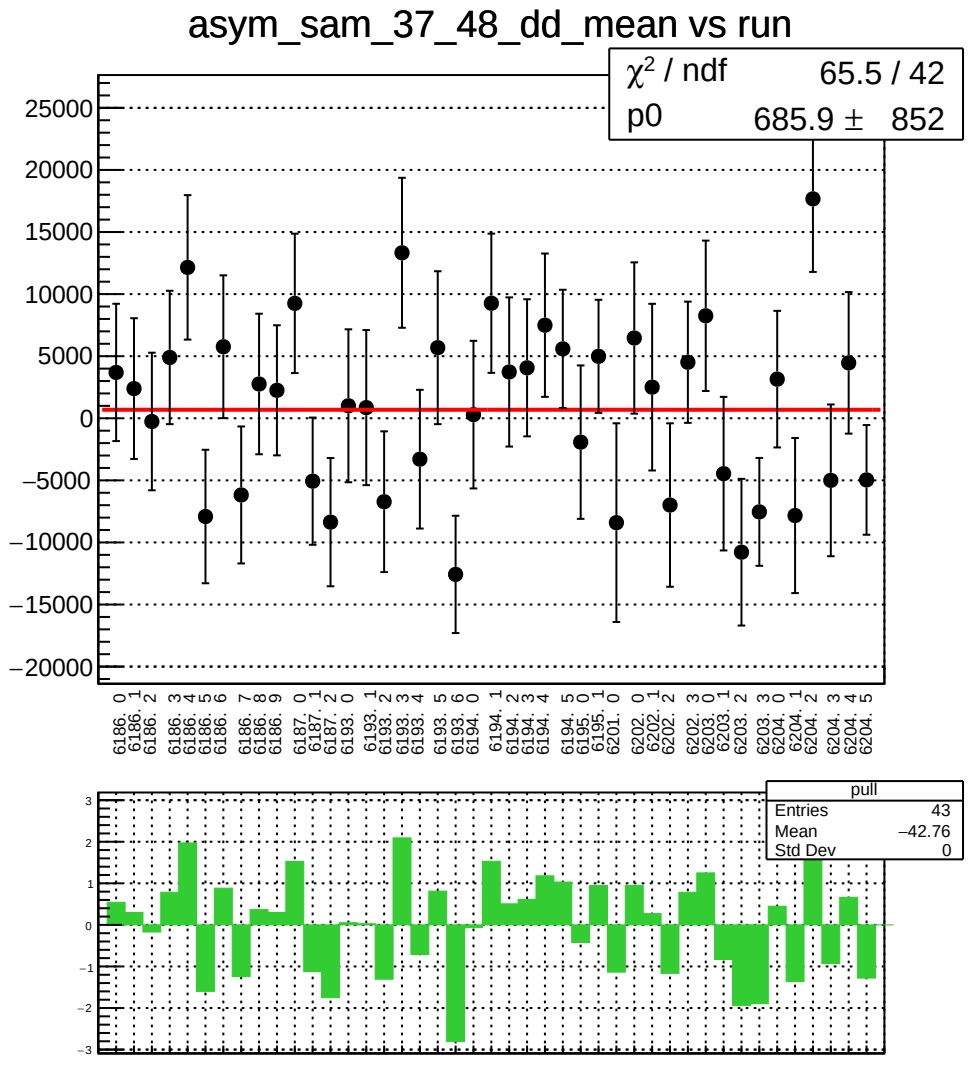

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 2162 / 42
p0 554.7 ± 0.6041
640
620
600
580
560
540
520
500
480
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

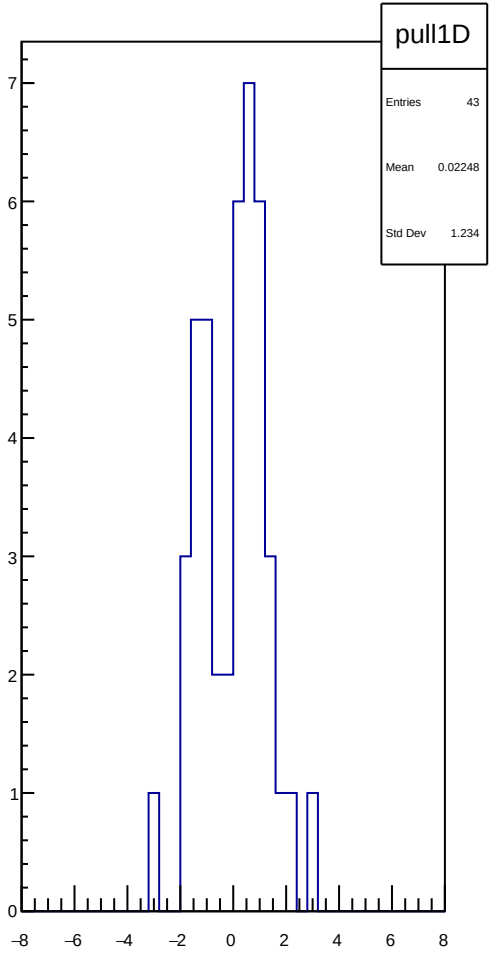

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 42.12 / 42
p0 231.6 ± 117.8
4000
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 97.62
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.0197
Std Dev 0.9896
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

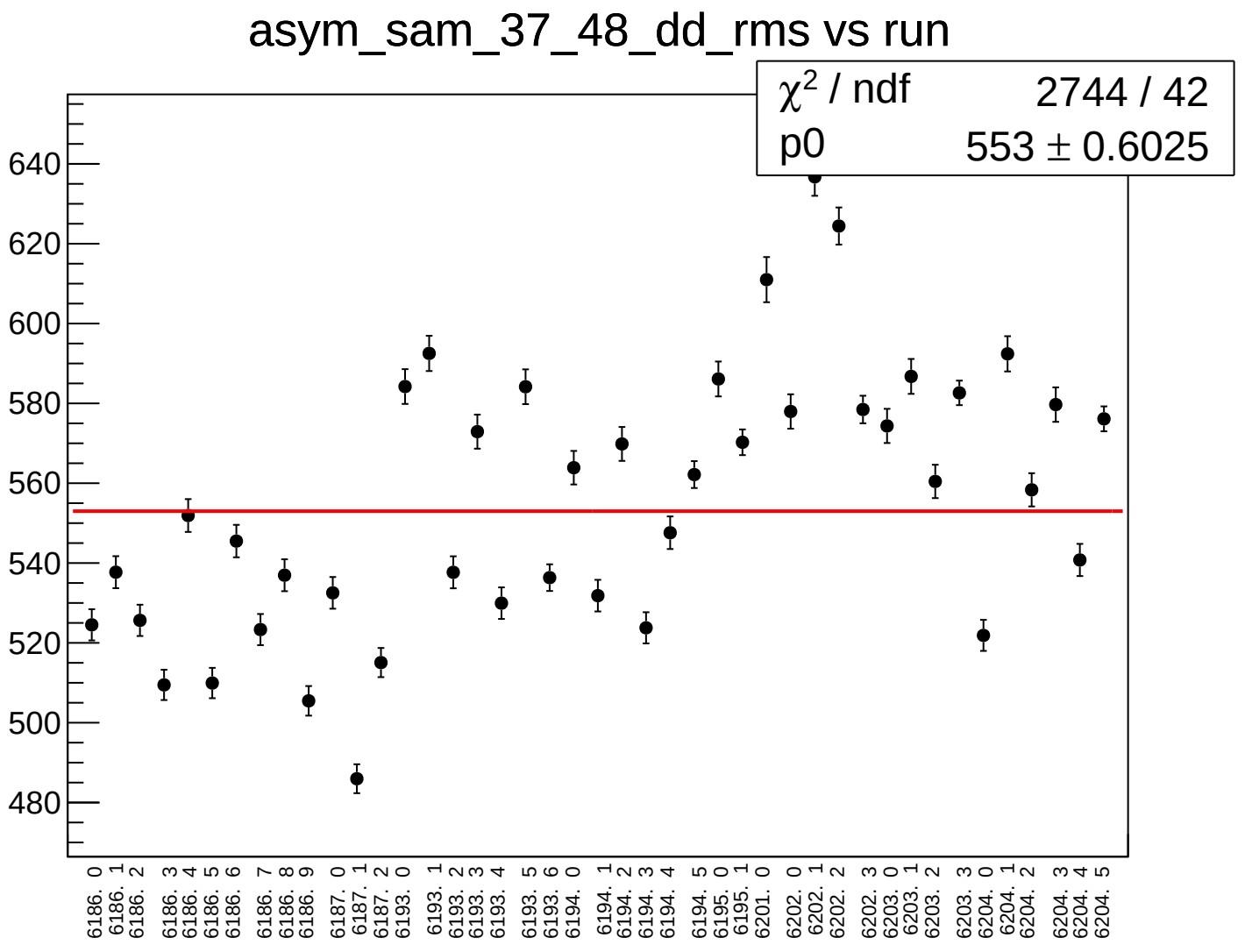

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.015e+04 / 42
p0 76.15 ± 0.08333
130
120
110
100
90
80
70
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

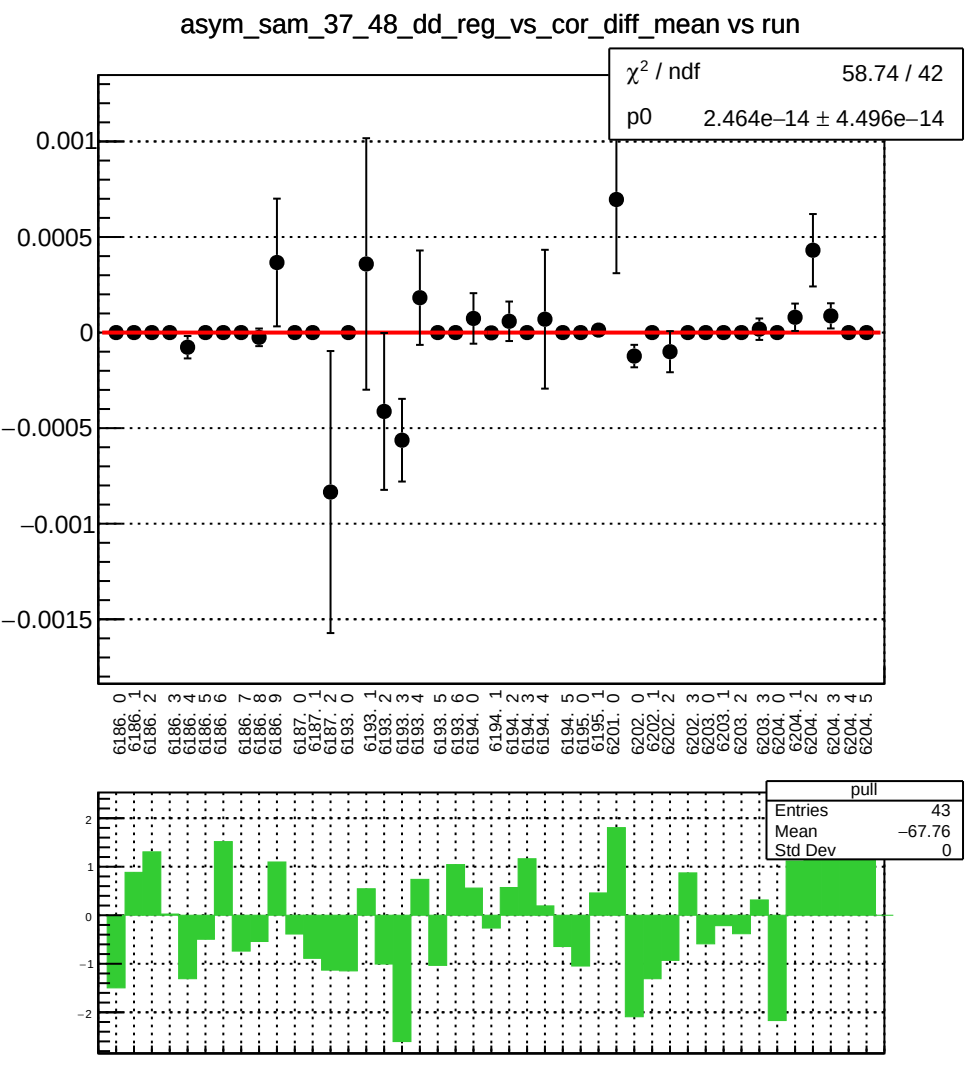

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.22 / 42
p0 −462.6 ± 854.4
20000
10000
0
−10000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −70.67
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.01793
Std Dev 1.25
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

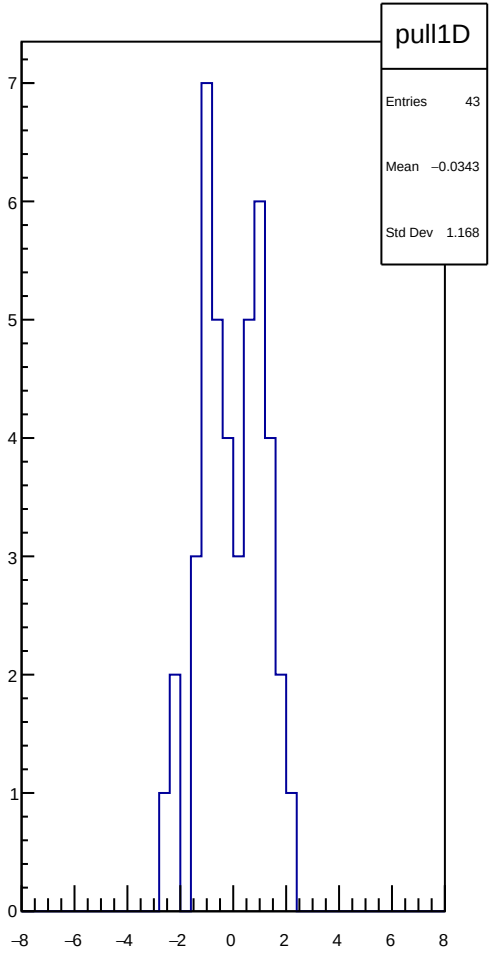

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2162 / 42
p0 554.7 ± 0.6041
640
620
600
580
560
540
520
500
480
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

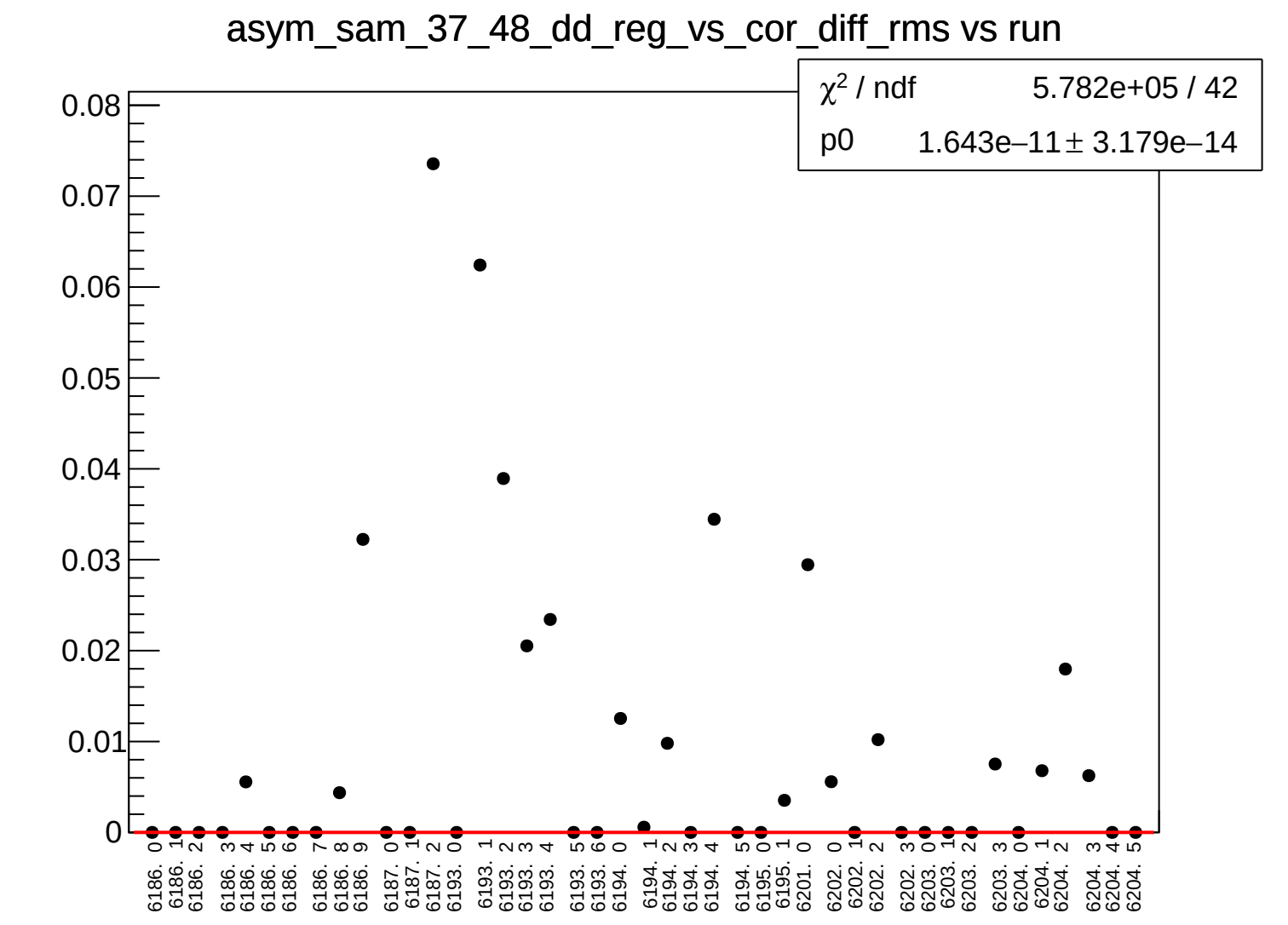

asym_sam_37_48_dd_mean vs run
χ² / ndf 65.5 / 42
p0 685.9 ± 852
pull
Entries 43
Mean −42.76
Std Dev 0

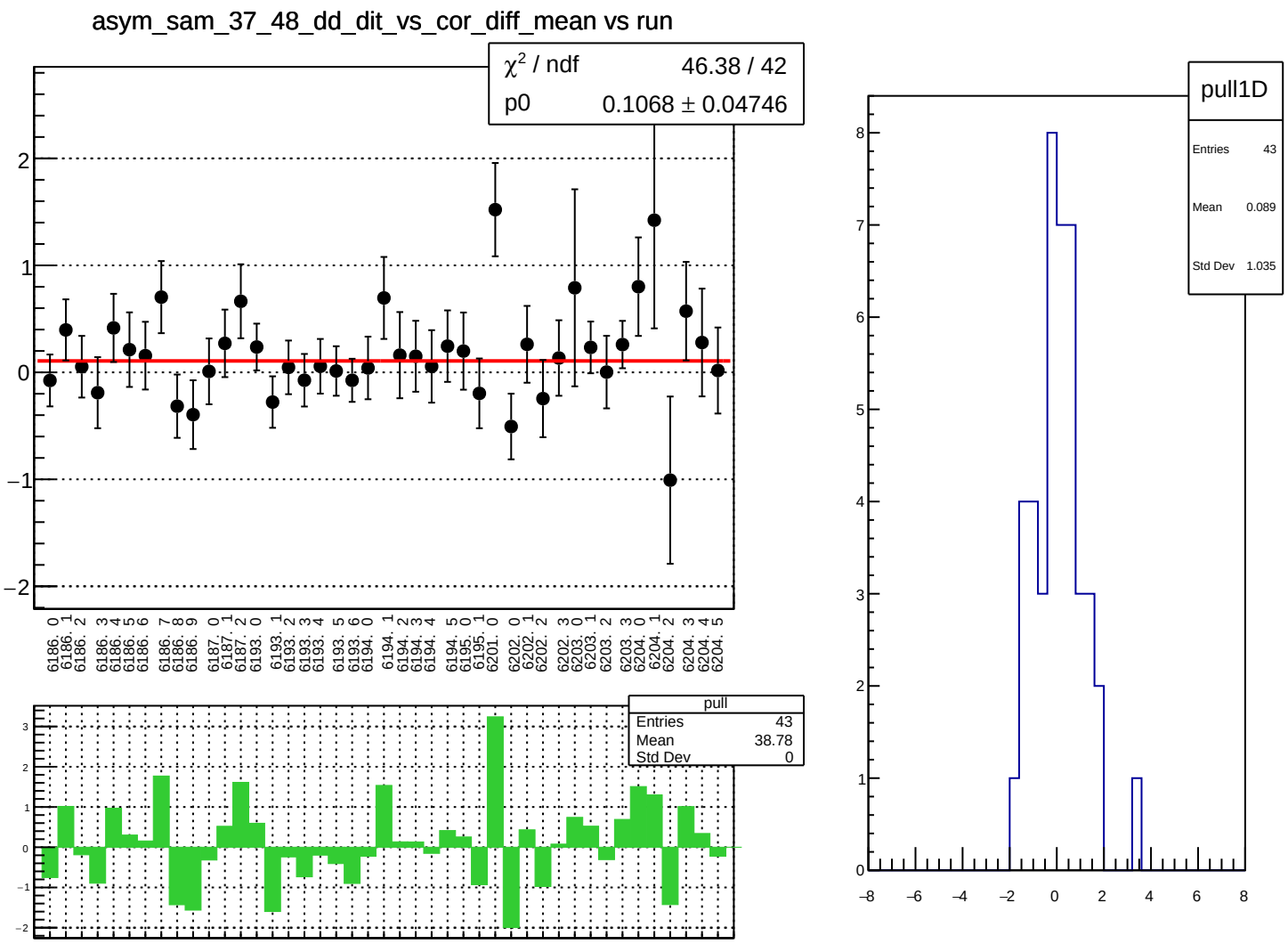

pull1D
Entries 43
Mean 0.02248
Std Dev 1.234

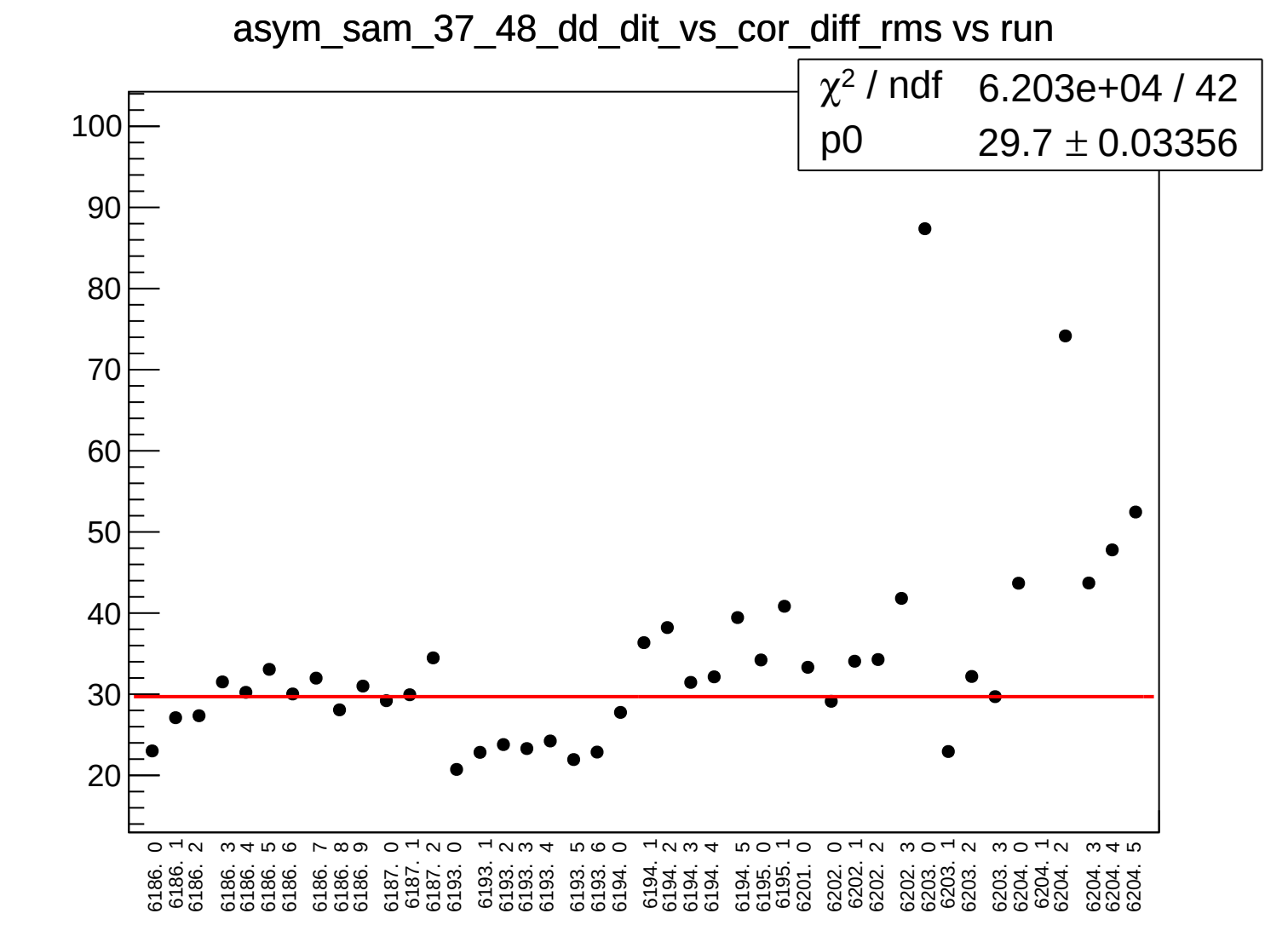

asym_sam_37_48_dd_rms vs run
χ² / ndf 2744 / 42
p0 553 ± 0.6025
640
620
600
580
560
540
520
500
480
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

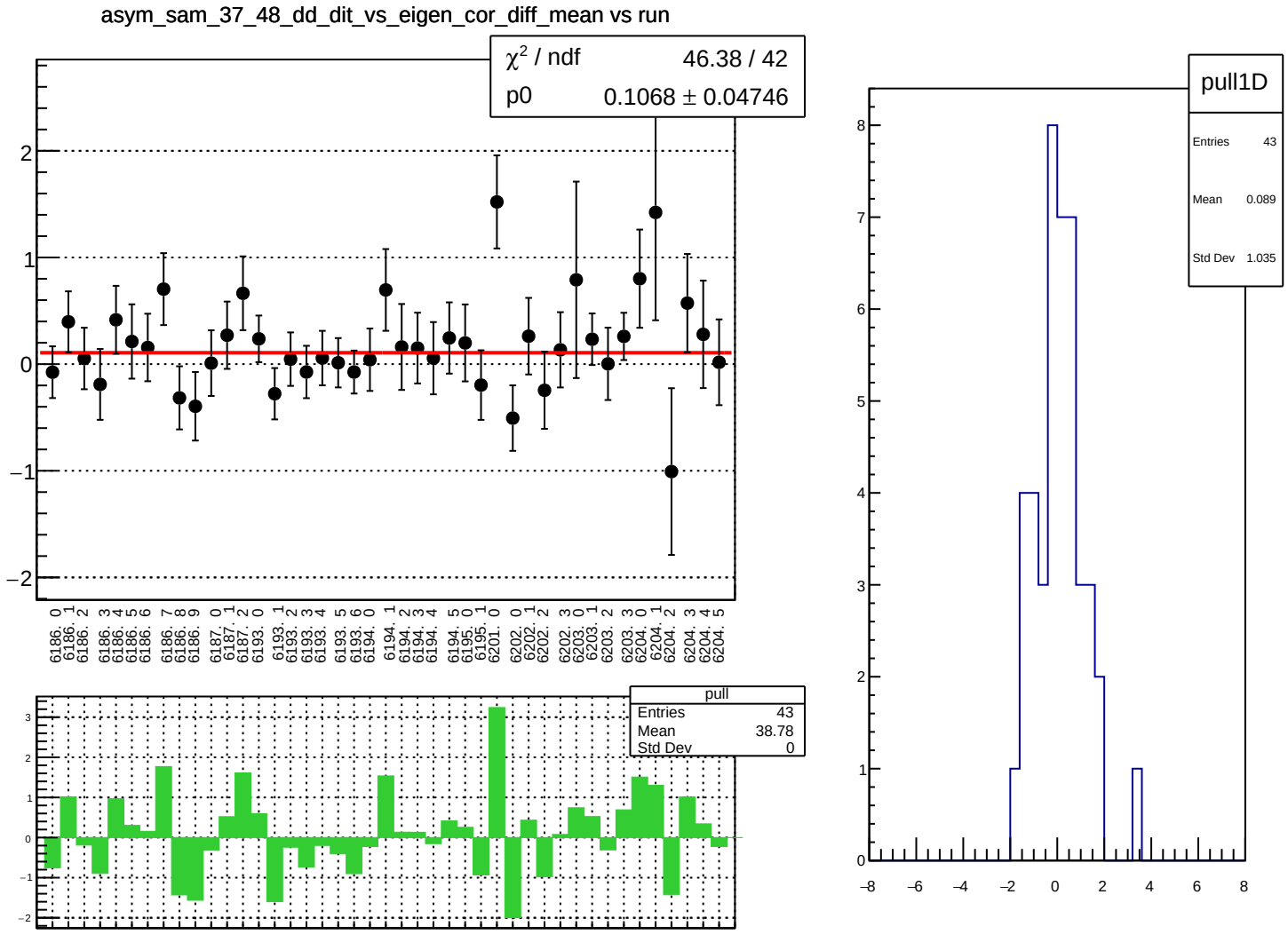

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 58.74 / 42
p0 2.464e−14 ± 4.496e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −67.76
Std Dev 0
2
1
0
−1
−2

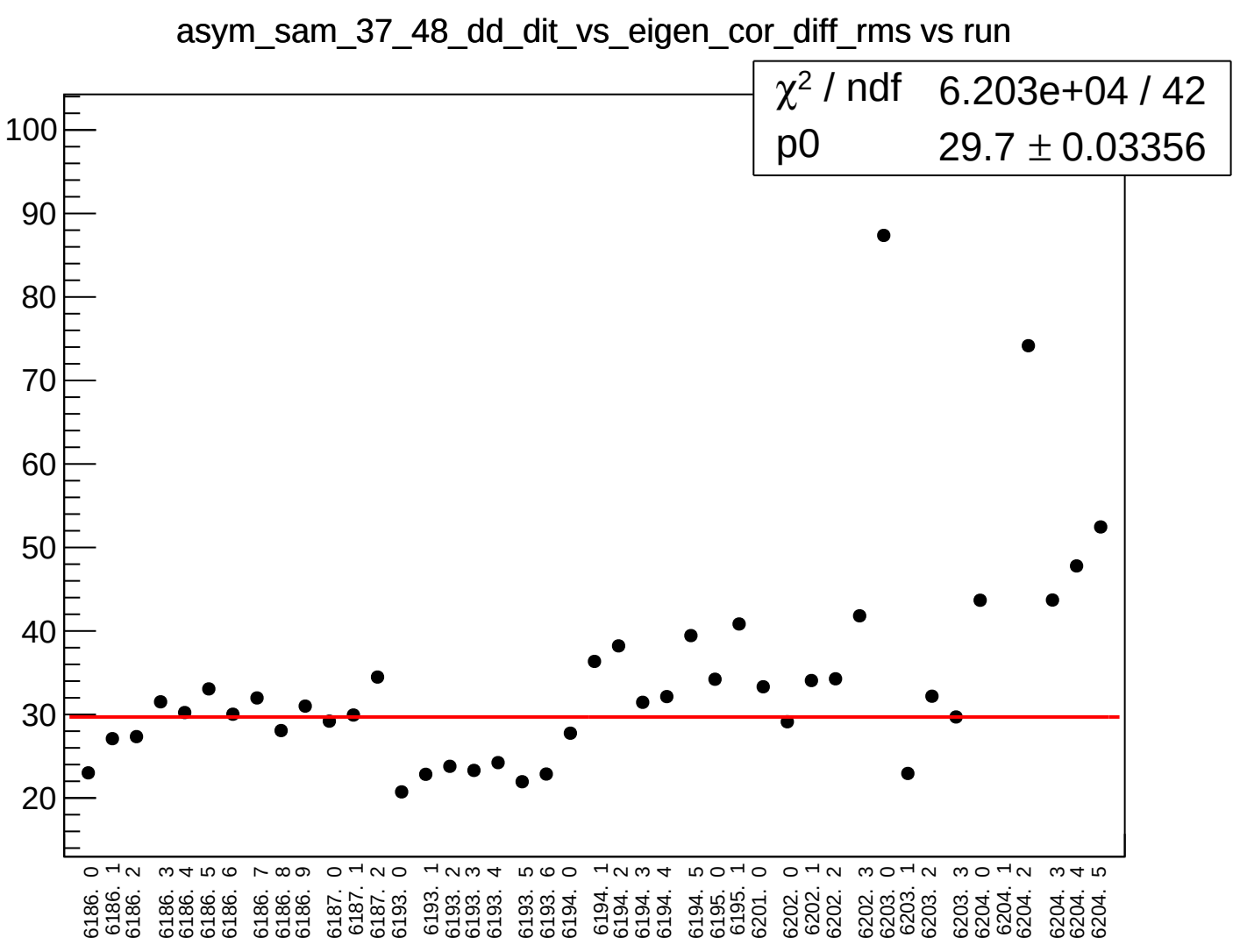

pull1D
Entries 43
Mean −0.0343
Std Dev 1.168
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

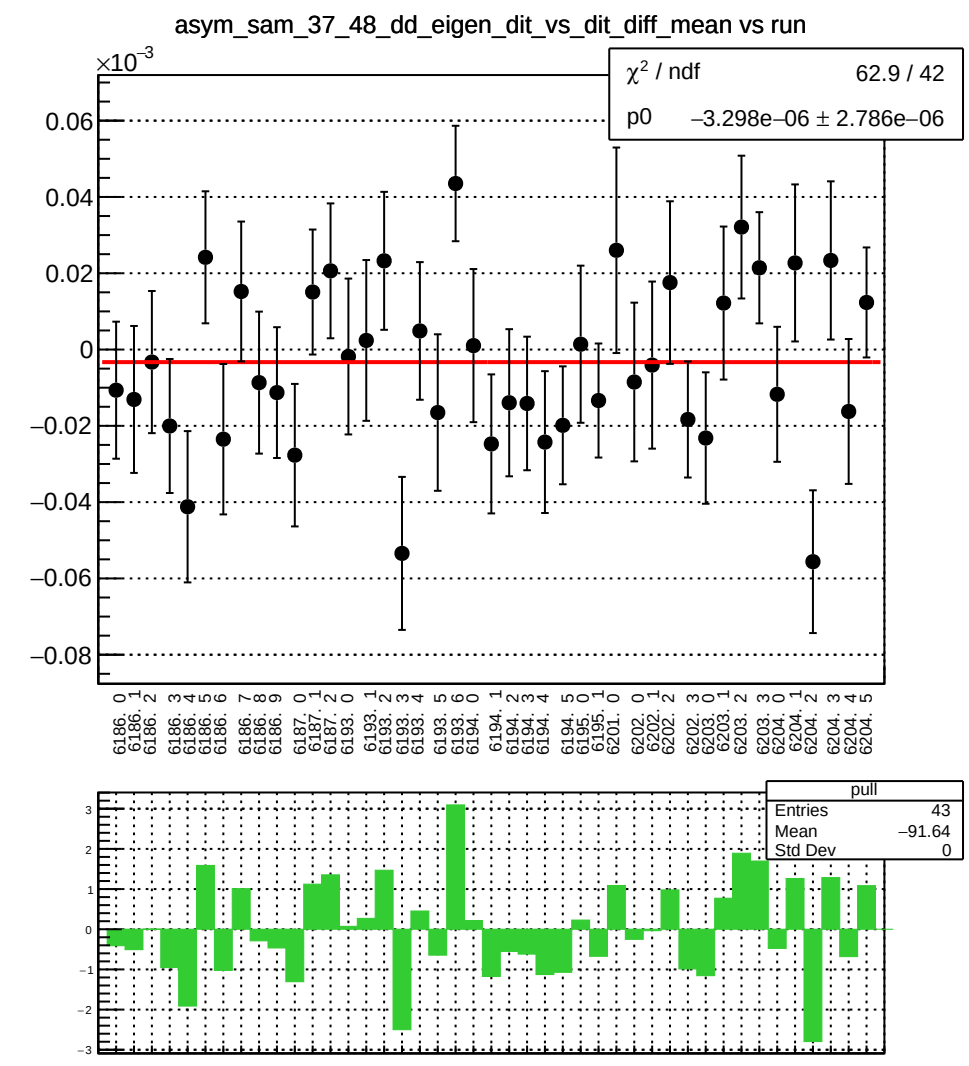

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.782e+05 / 42
p0 1.643e−11 ± 3.179e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

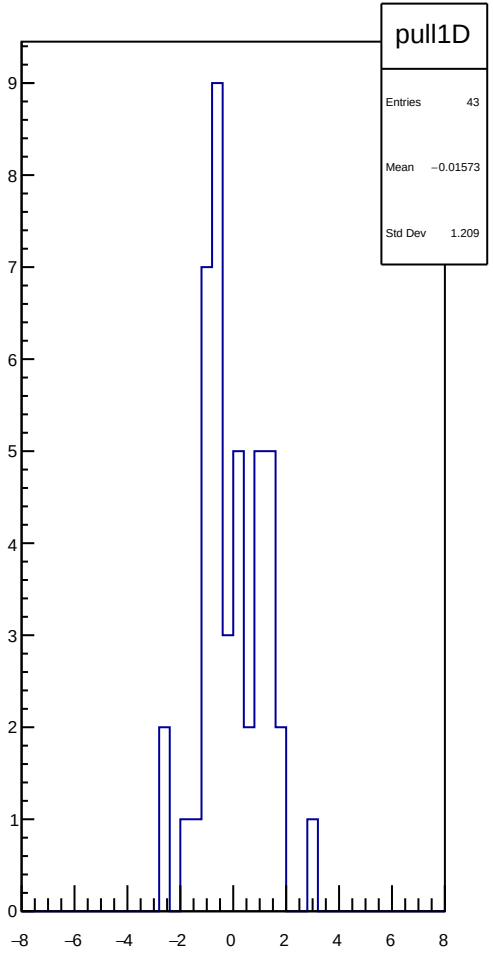

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 46.38 / 42
p0 0.1068 ± 0.04746
pull
Entries 43
Mean 38.78
Std Dev 0
pull1D
Entries 43
Mean 0.089
Std Dev 1.035

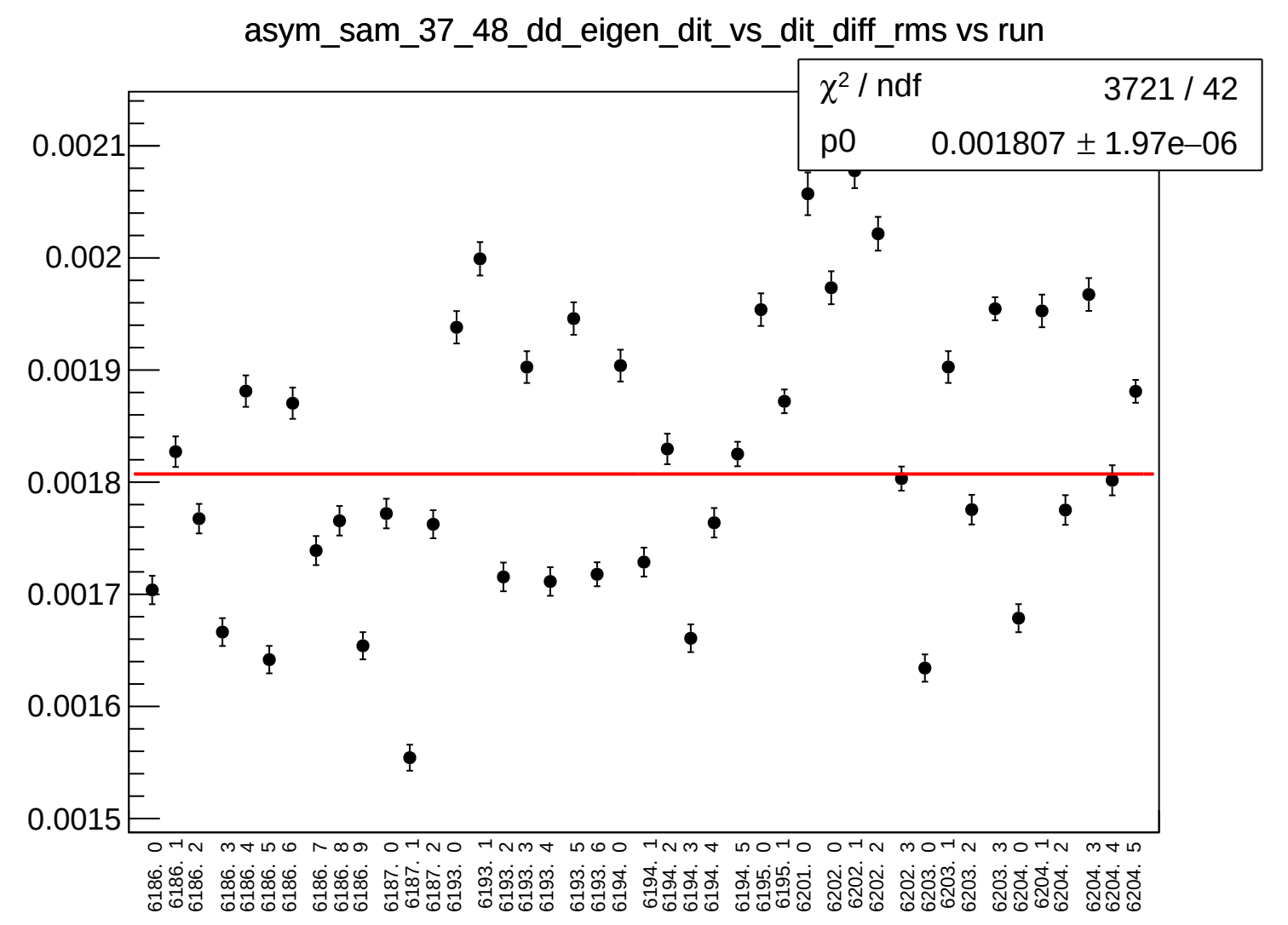

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.203e+04 / 42
p0 29.7 ± 0.03356
100
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

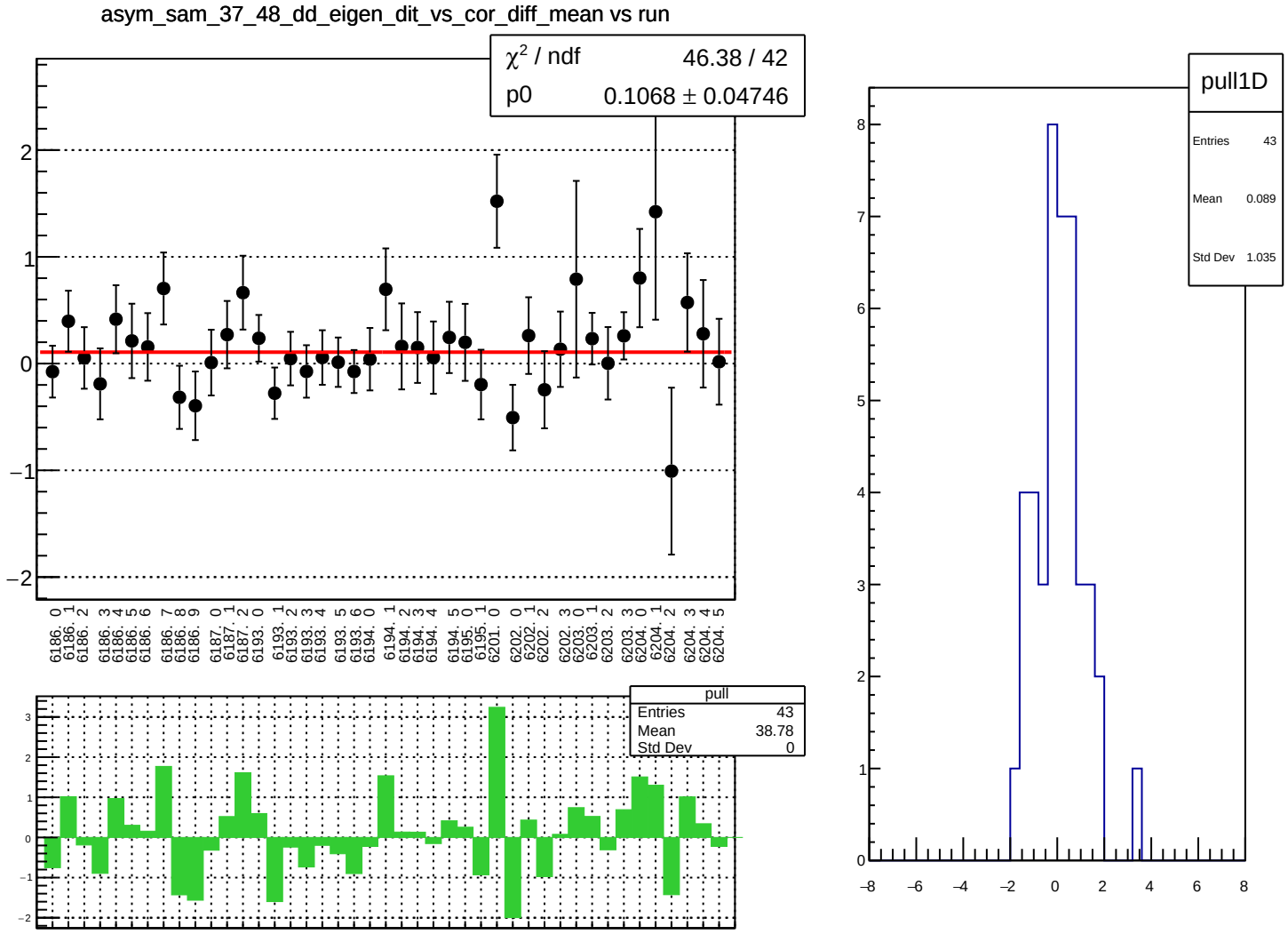

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 46.38 / 42
p0 0.1068 ± 0.04746
pull
Entries 43
Mean 38.78
Std Dev 0
pull1D
Entries 43
Mean 0.089
Std Dev 1.035

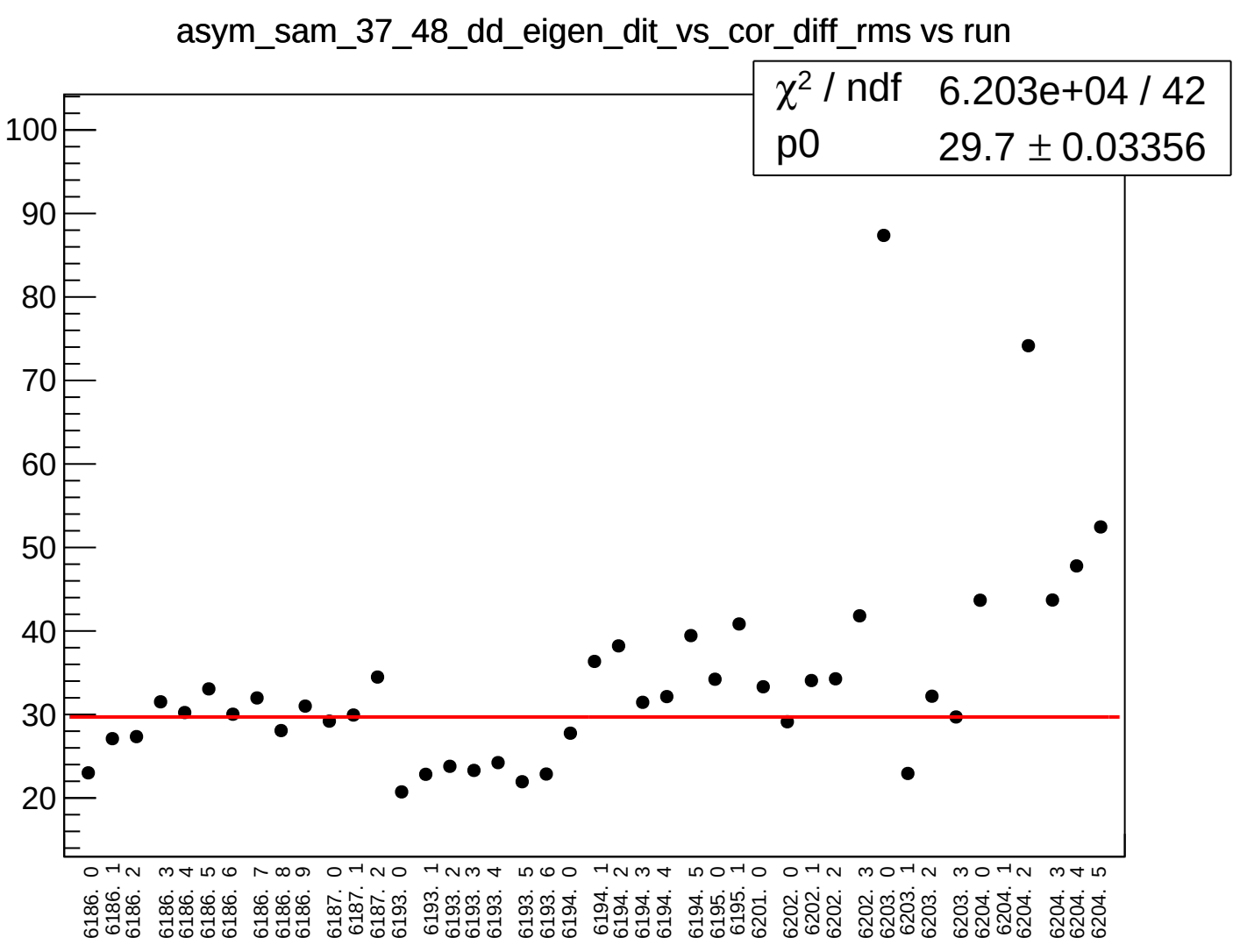

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.203e+04 / 42
p0 29.7 ± 0.03356
100
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 62.9 / 42
p0 −3.298e−06 ± 2.786e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −91.64
Std Dev 0
3
2
1
0
−1
−2
−3

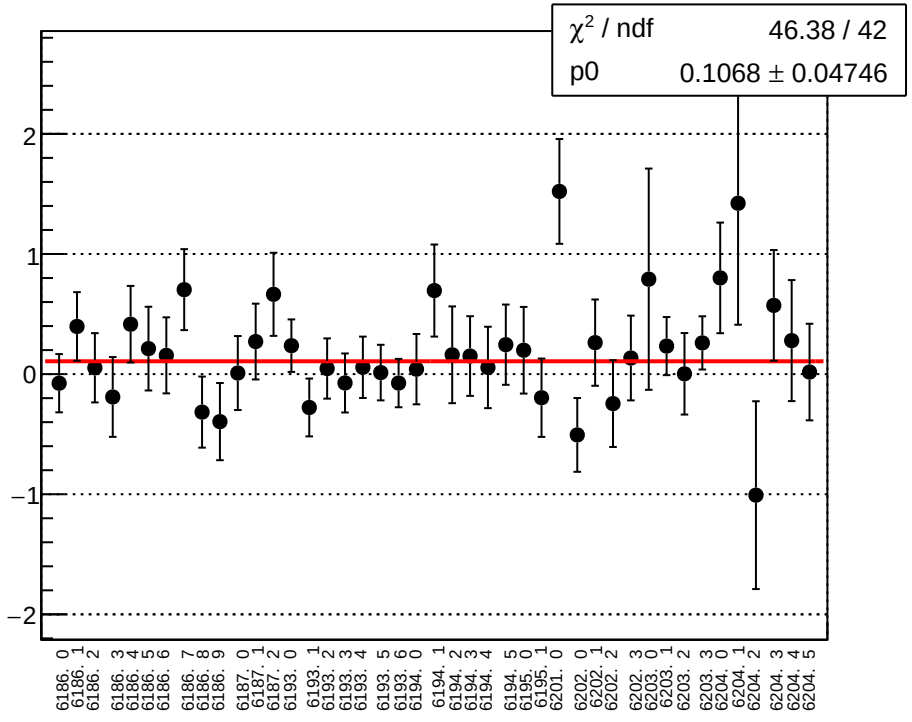

pull1D
Entries 43
Mean −0.01573
Std Dev 1.209
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

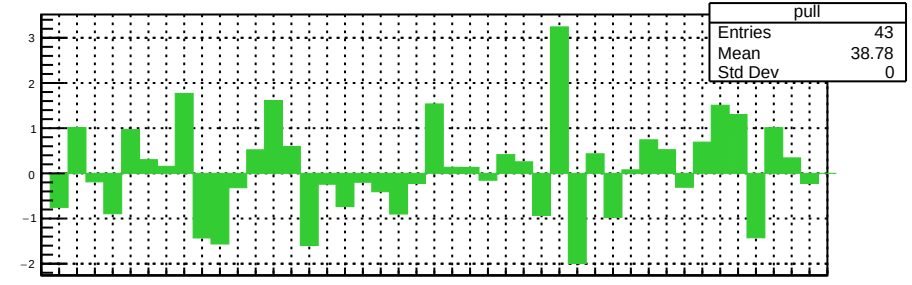

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3721 / 42
p0 0.001807 ± 1.97e–06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

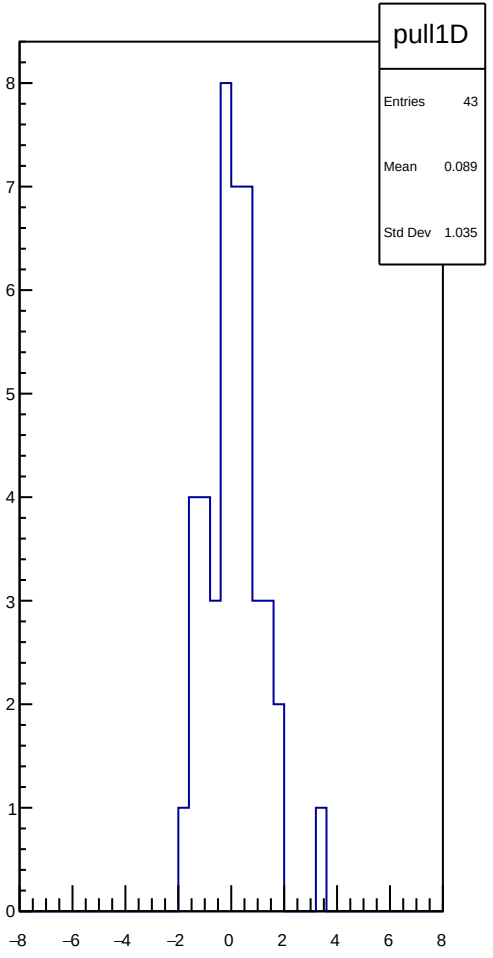

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 46.38 / 42
p0 0.1068 ± 0.04746
pull
Entries 43
Mean 38.78
Std Dev 0
pull1D
Entries 43
Mean 0.089
Std Dev 1.035

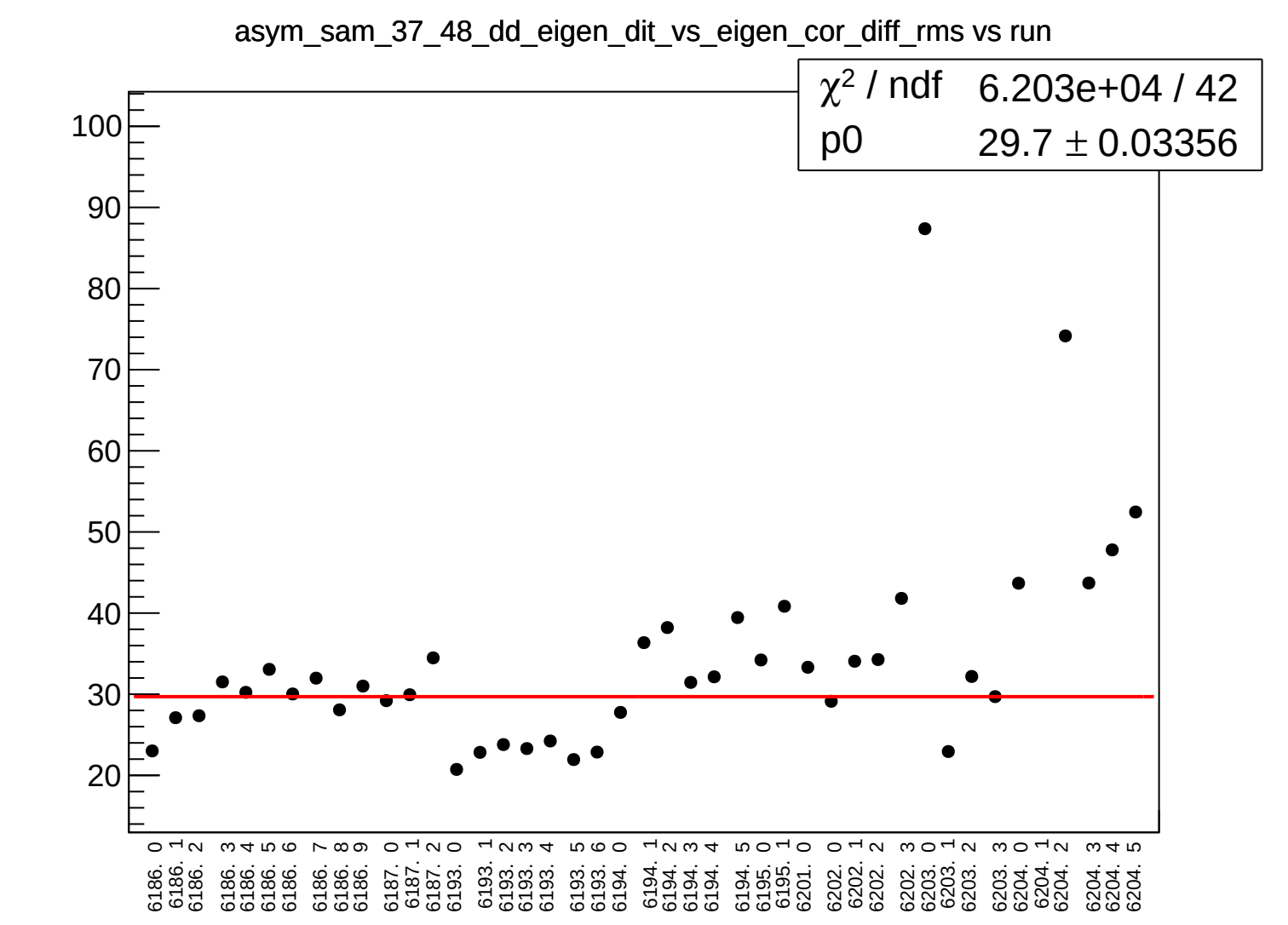

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.203e+04 / 42
p0 29.7 ± 0.03356
100
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

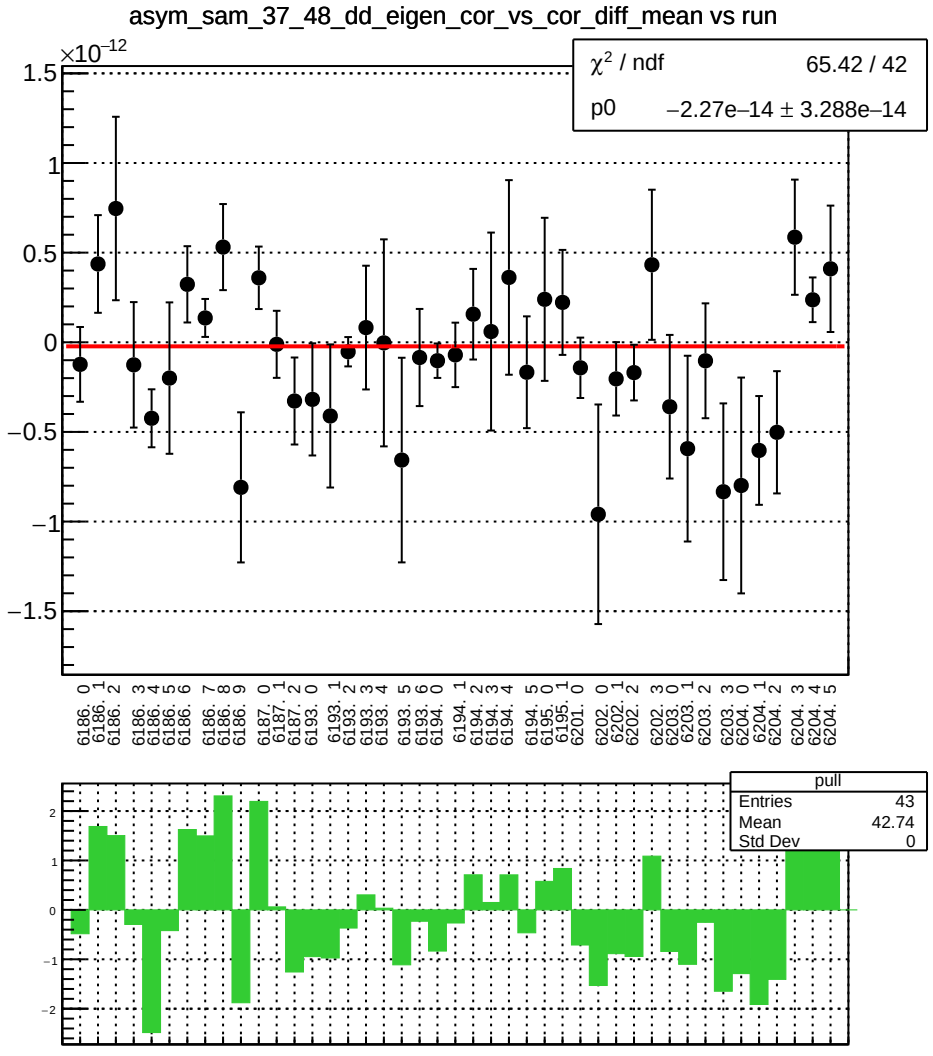
asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

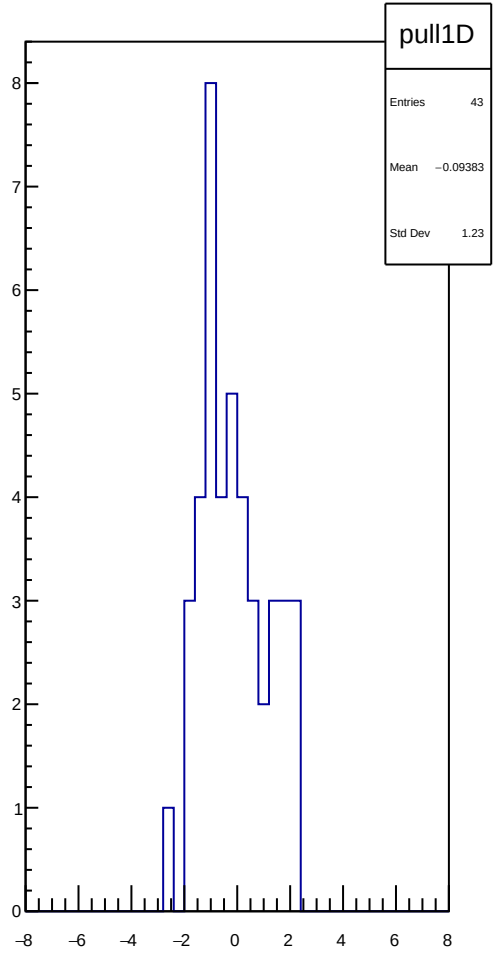


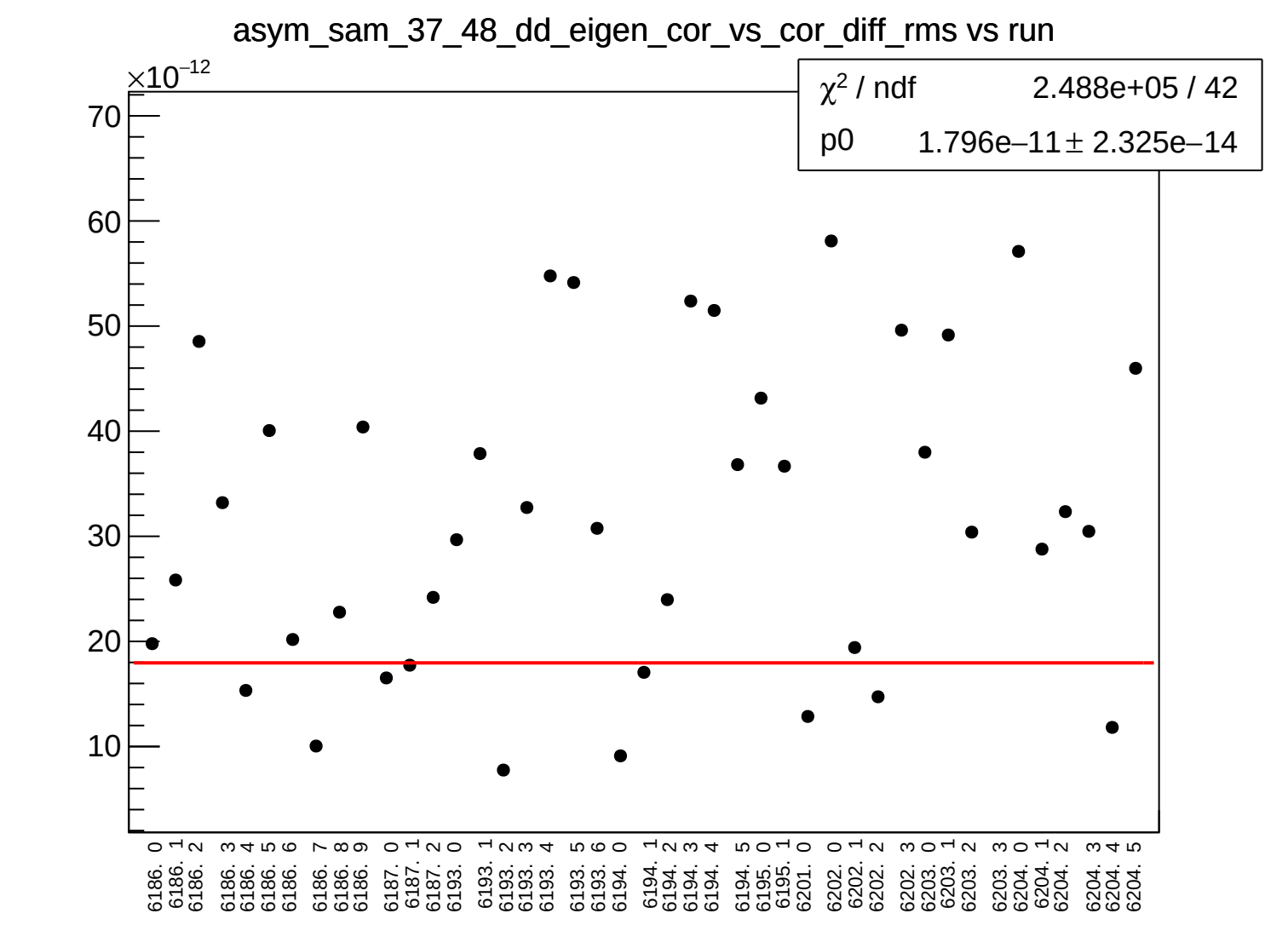


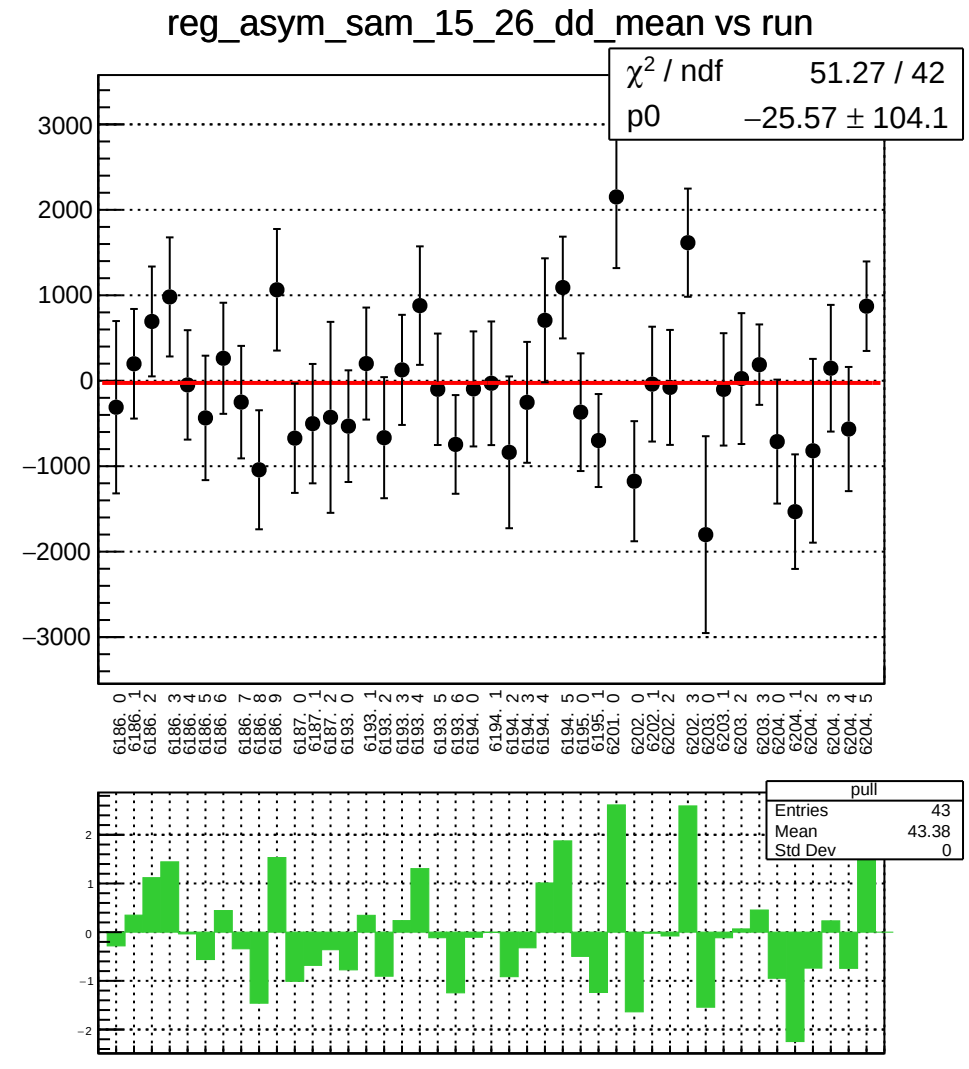


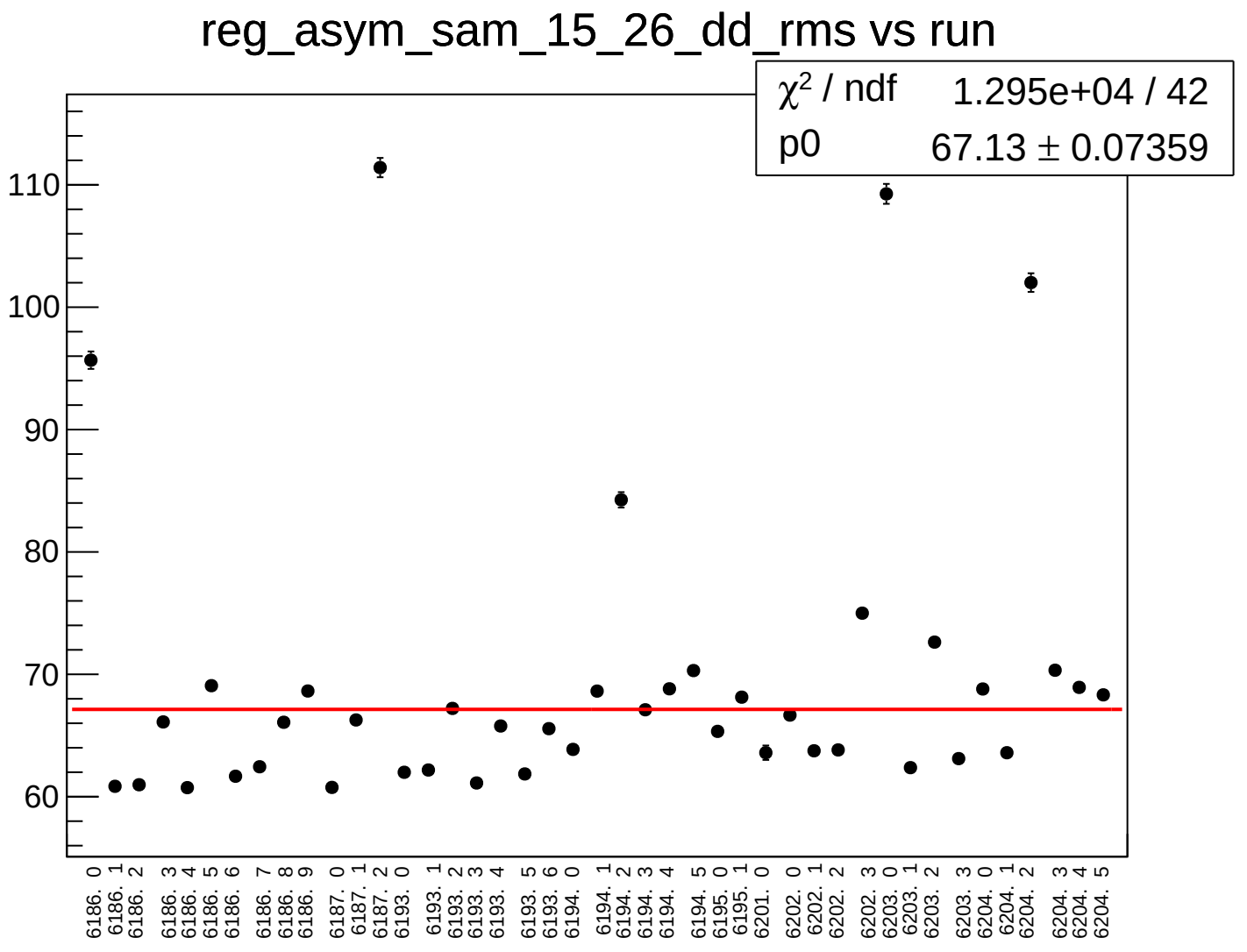

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.203e+04 / 42
p0 29.7 ± 0.03356
100
90
80
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

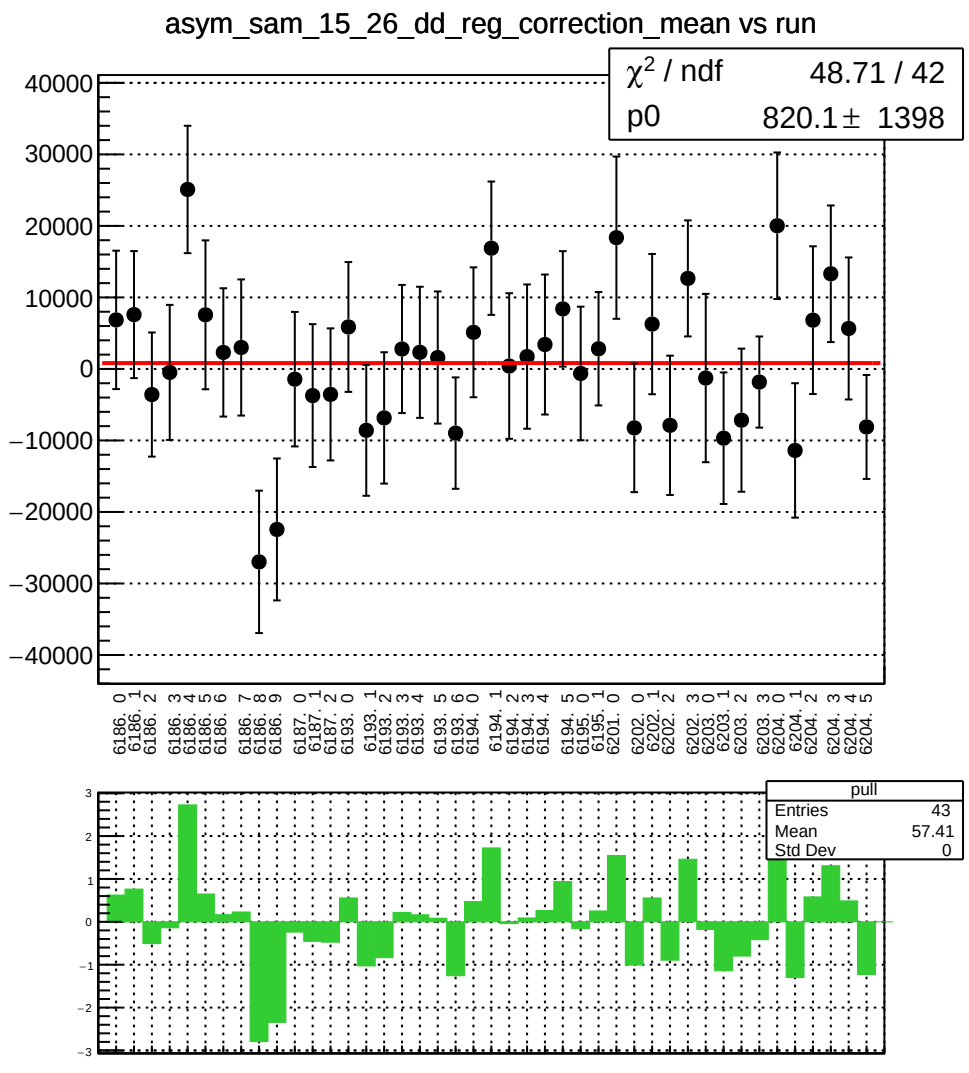

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.42 / 42
p0 −2.27e−14 ± 3.288e−14
1.5
1
0.5
0
−0.5
−1
−1.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 42.74
Std Dev 0
2
1
0
−1
−2

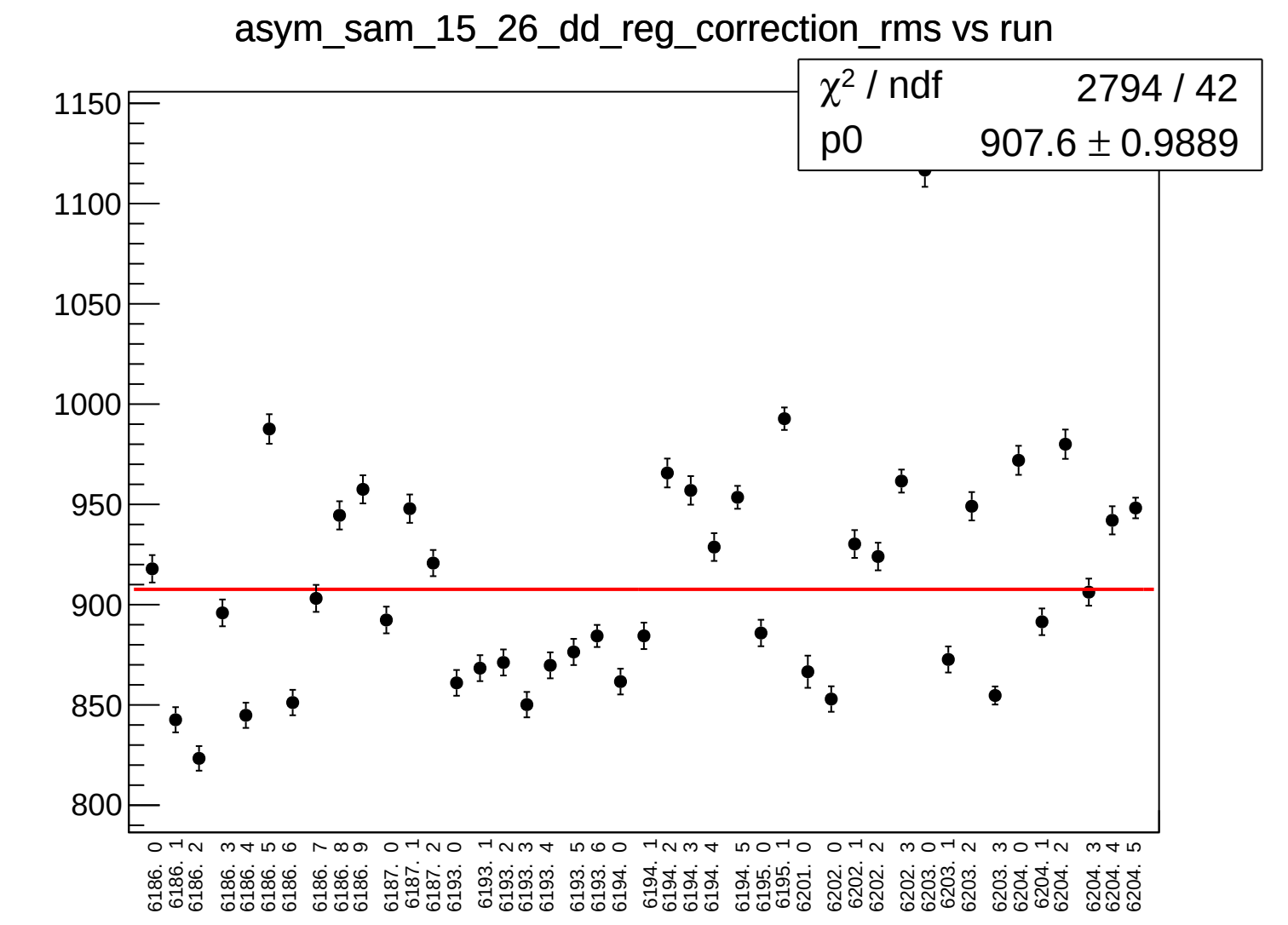

pull1D
Entries 43
Mean −0.09383
Std Dev 1.23
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

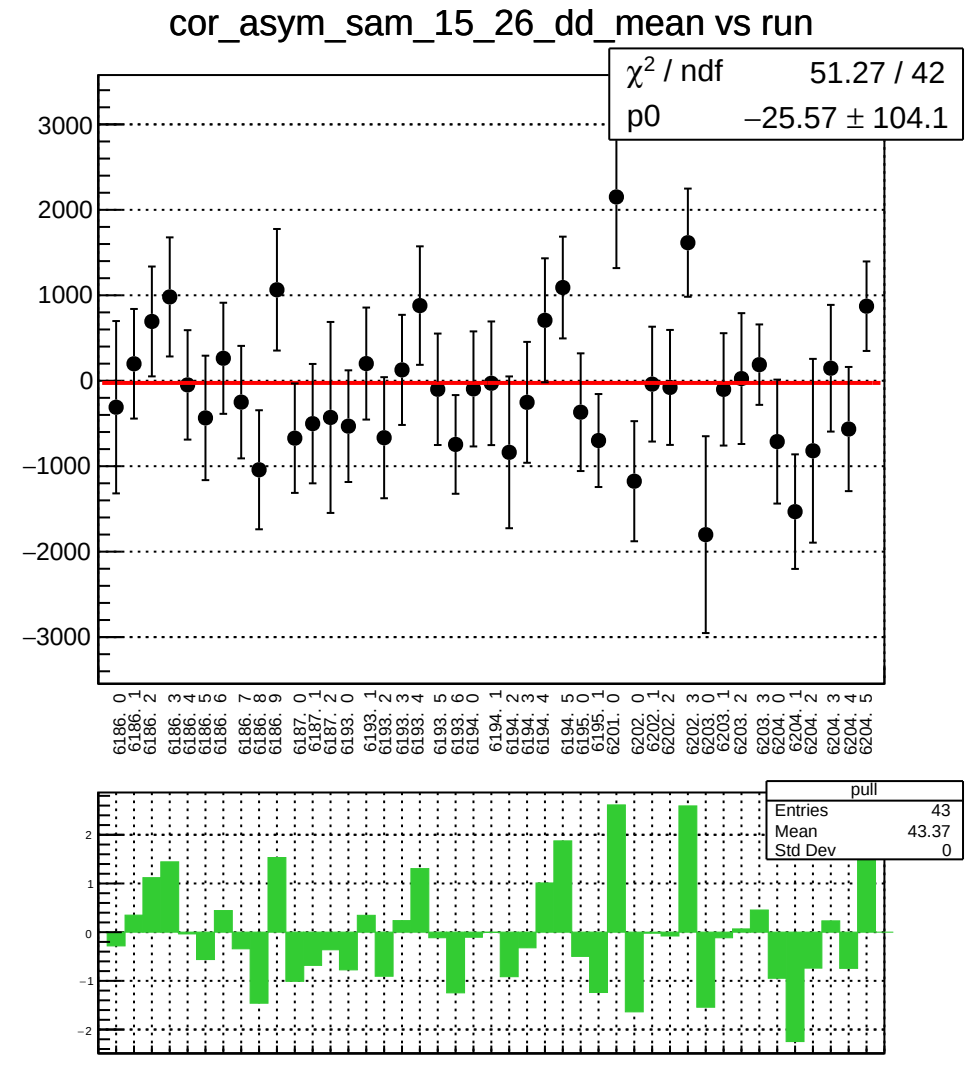

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
70
60
50
40
30
20
10
χ² / ndf 2.488e+05 / 42
p0 1.796e−11 ± 2.325e−14
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 51.27 / 42
p0 −25.57 ± 104.1
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 43.38
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0368
Std Dev 1.091
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.295e+04 / 42
p0 67.13 ± 0.07359
110
100
90
80
70
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 48.71 / 42
p0 820.1 ± 1398
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 57.41
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01168
Std Dev 1.064
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 2794 / 42
p0 907.6 ± 0.9889
1150
1100
1050
1000
950
900
850
800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 51.27 / 42
p0 −25.57 ± 104.1
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
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pull
Entries 43
Mean 43.37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03681
Std Dev 1.091
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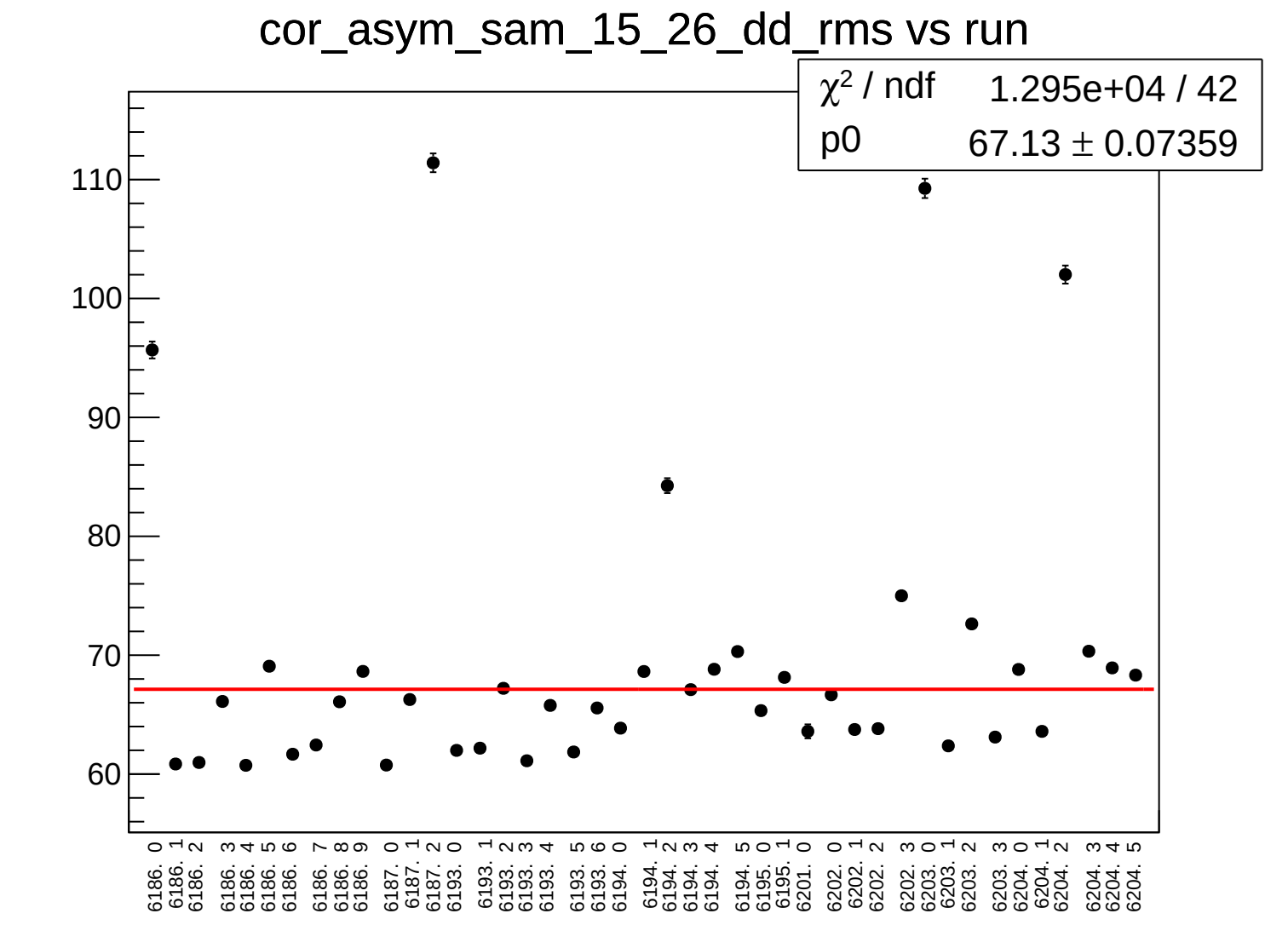
cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.295e+04 / 42
p0 67.13 ± 0.07359
110
100
90
80
70
60
6186. 0
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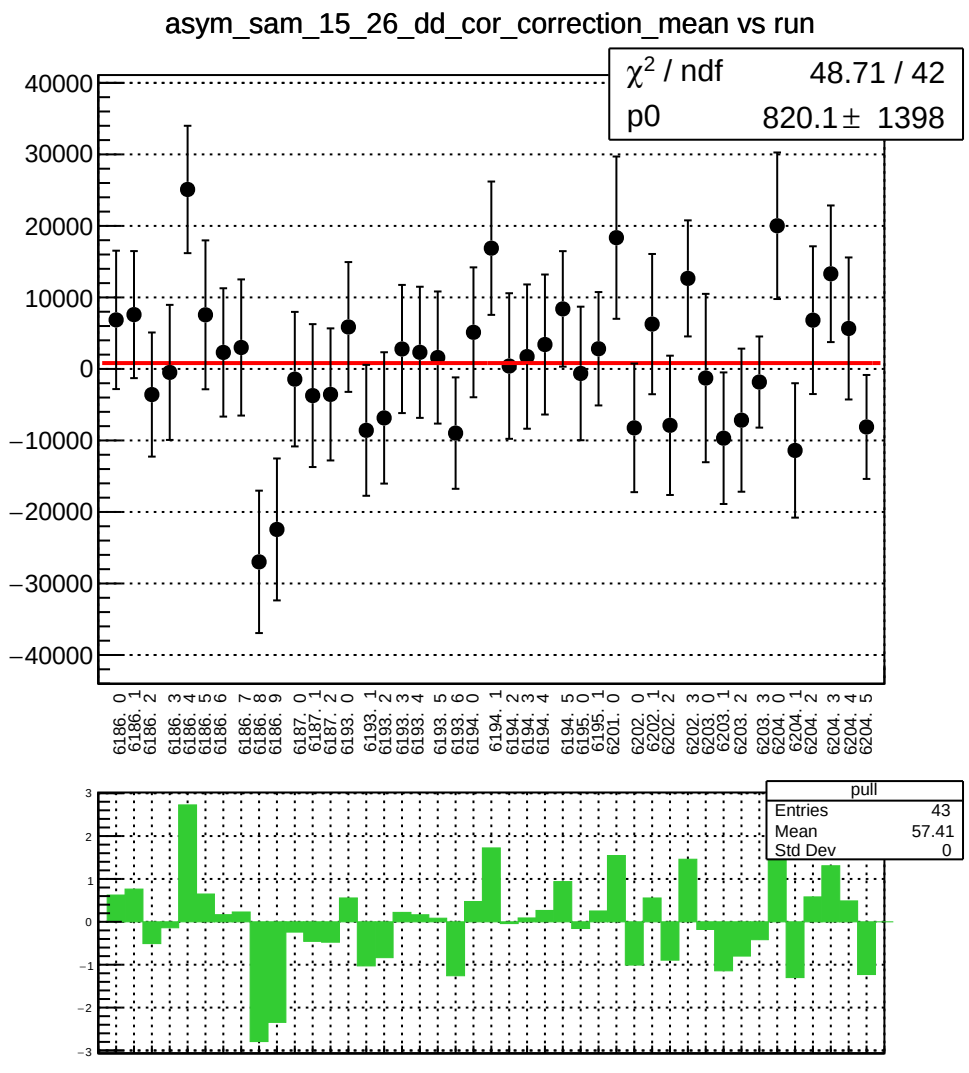
asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 48.71 / 42
p0 820.1 ± 1398
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20000
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−10000
−20000
−30000
−40000
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6187. 2
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pull
Entries 43
Mean 57.41
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.01168
Std Dev 1.064
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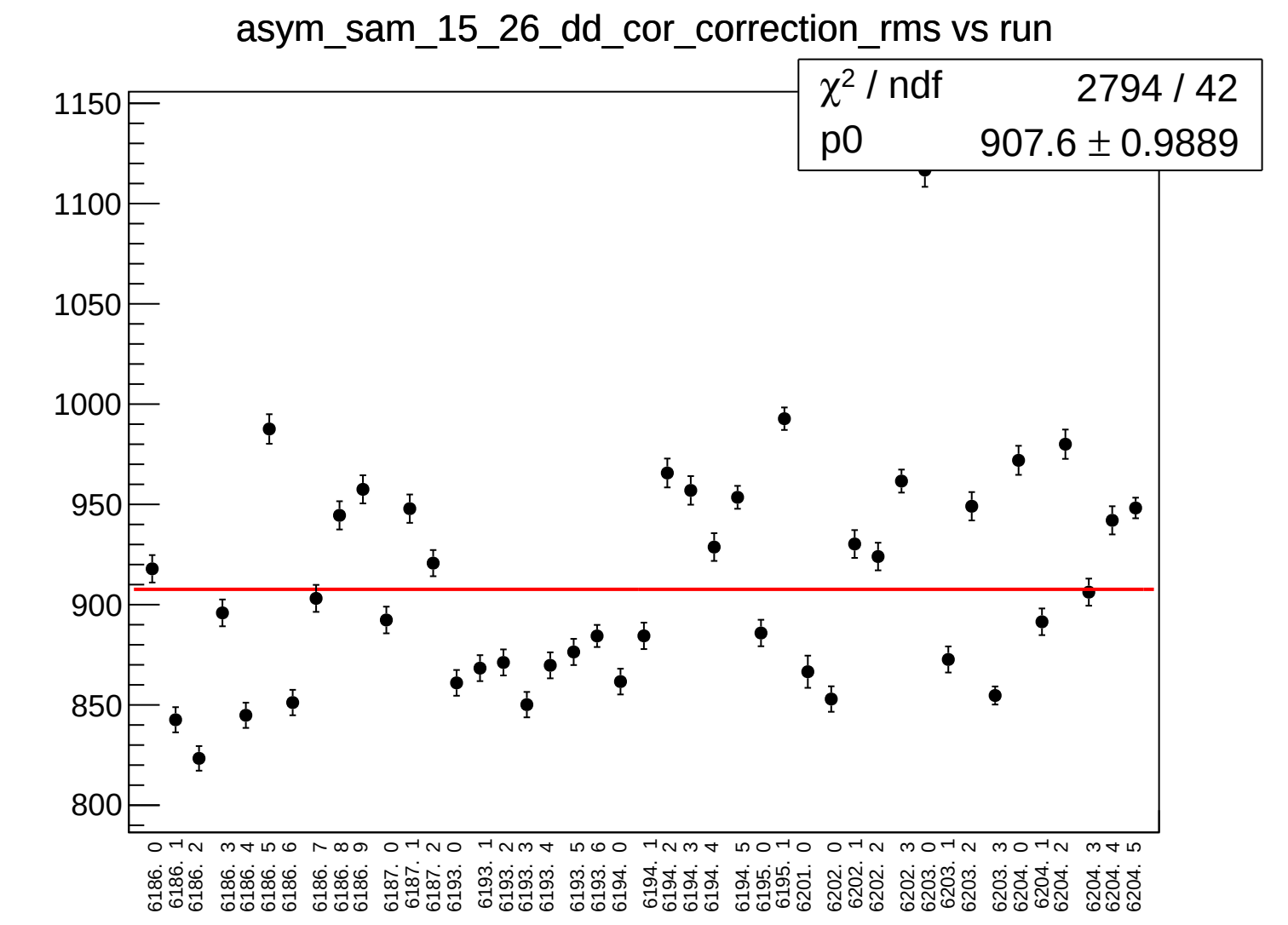
asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 2794 / 42
p0 907.6 ± 0.9889
1150
1100
1050
1000
950
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6186. 0
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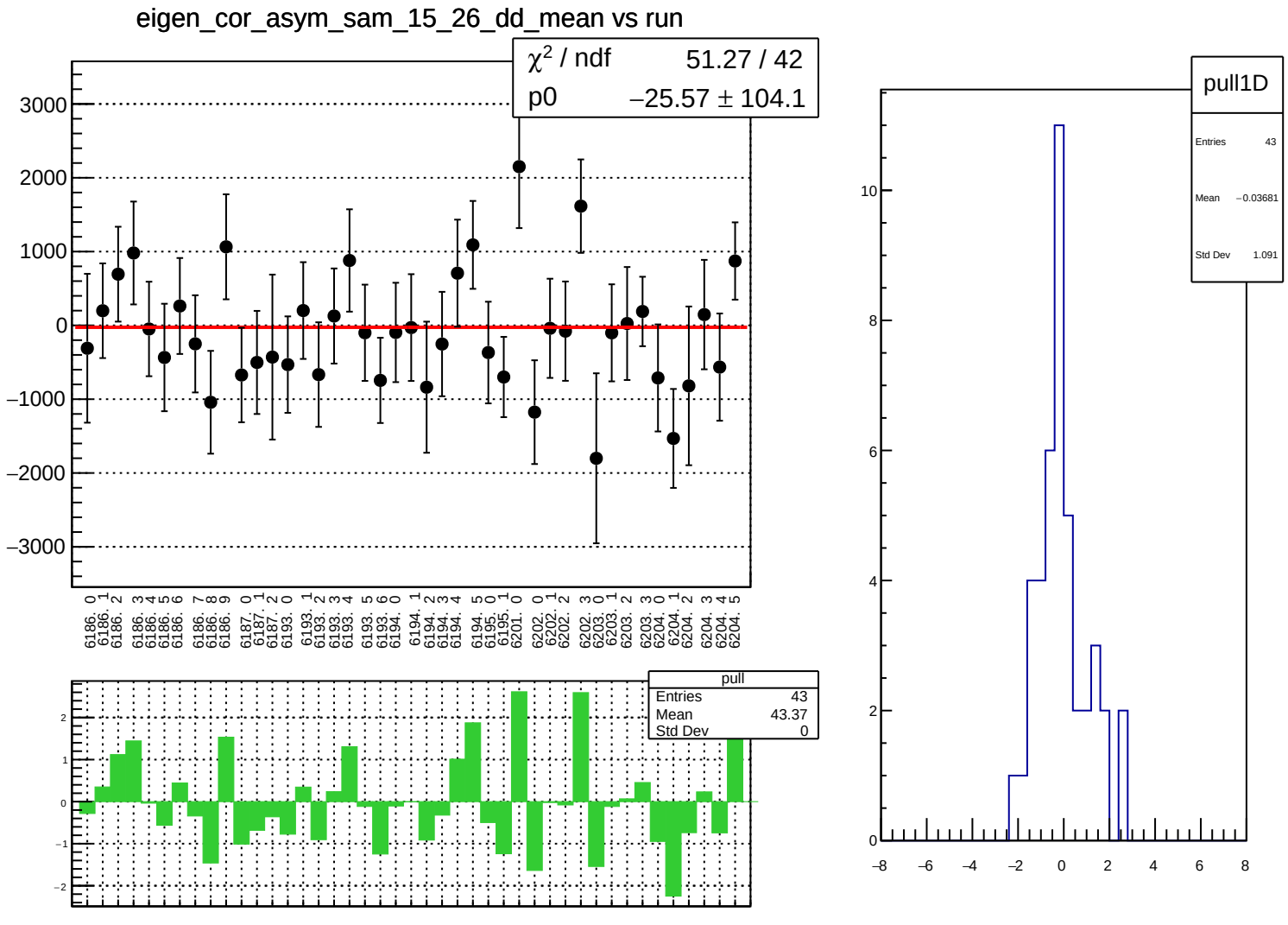
eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 51.27 / 42
p0 −25.57 ± 104.1
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2000
1000
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−3000
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pull
Entries 43
Mean 43.37
Std Dev 0
2
1
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−1
−2
pull1D
Entries 43
Mean −0.03681
Std Dev 1.091
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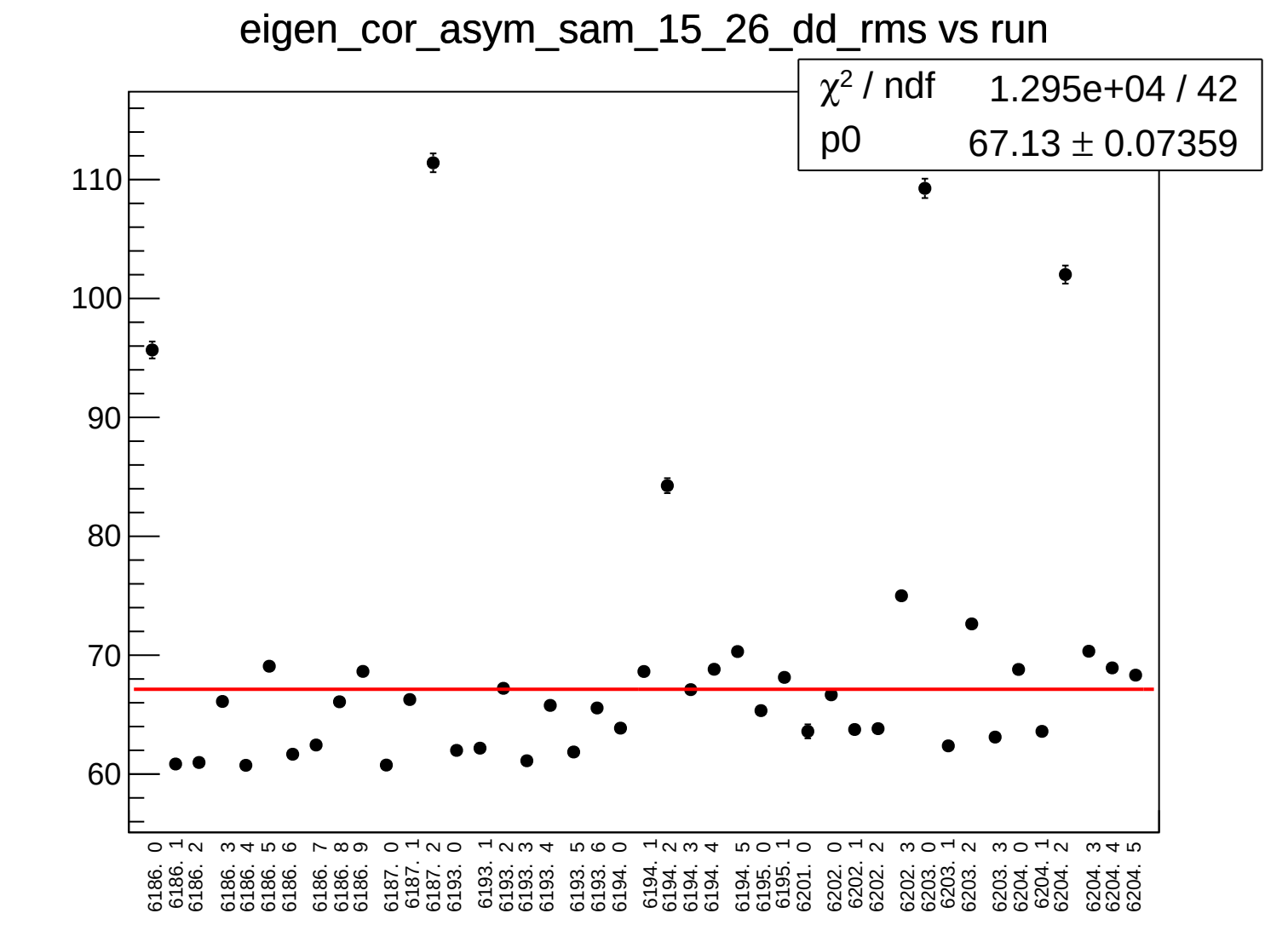
eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.295e+04 / 42
p0 67.13 ± 0.07359
110
100
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6186. 0
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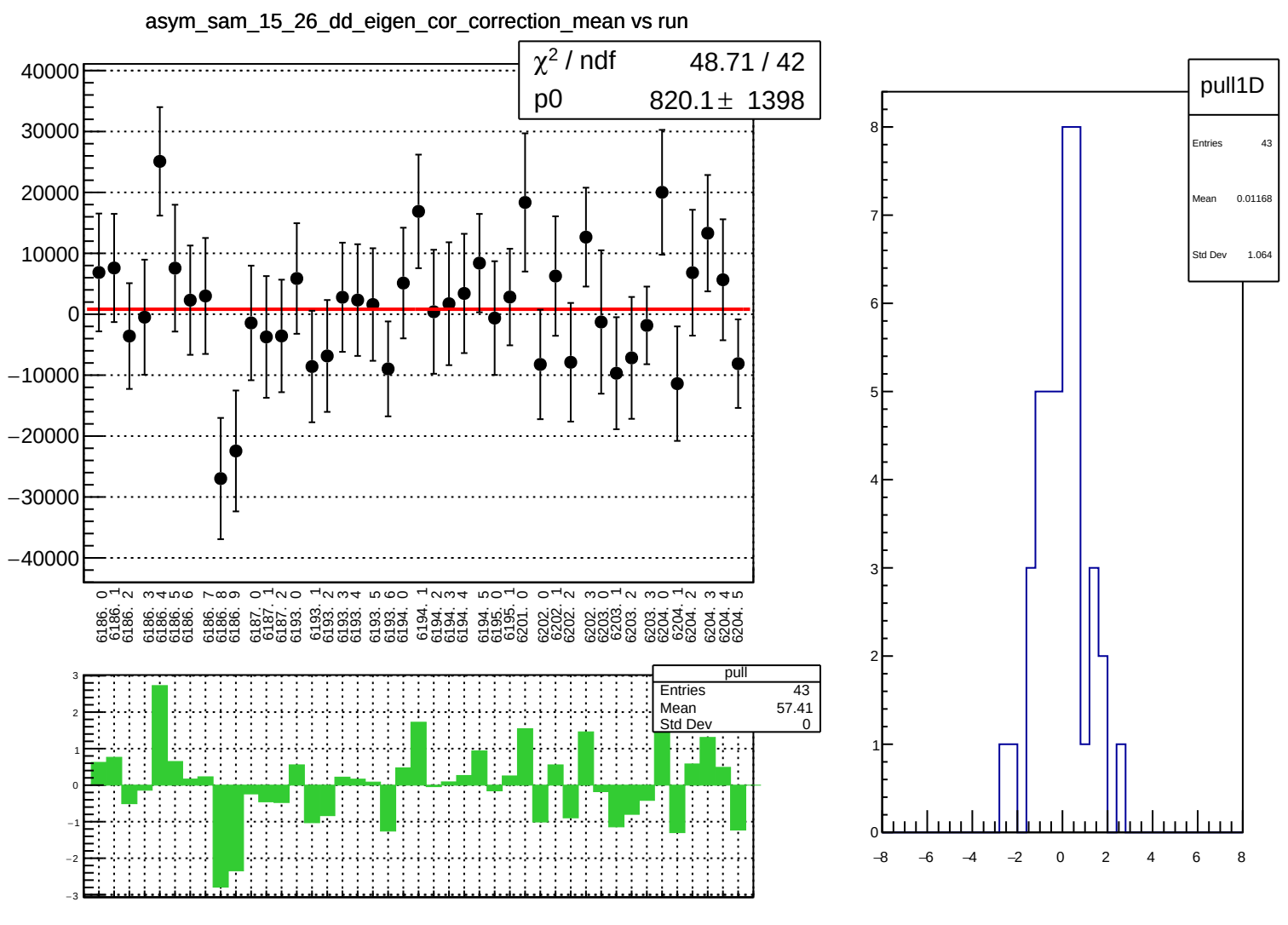
6204. 5


asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 48.71 / 42
p0 820.1 ± 1398
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pull
Entries 43
Mean 57.41
Std Dev 0
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−2
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pull1D
Entries 43
Mean 0.01168
Std Dev 1.064
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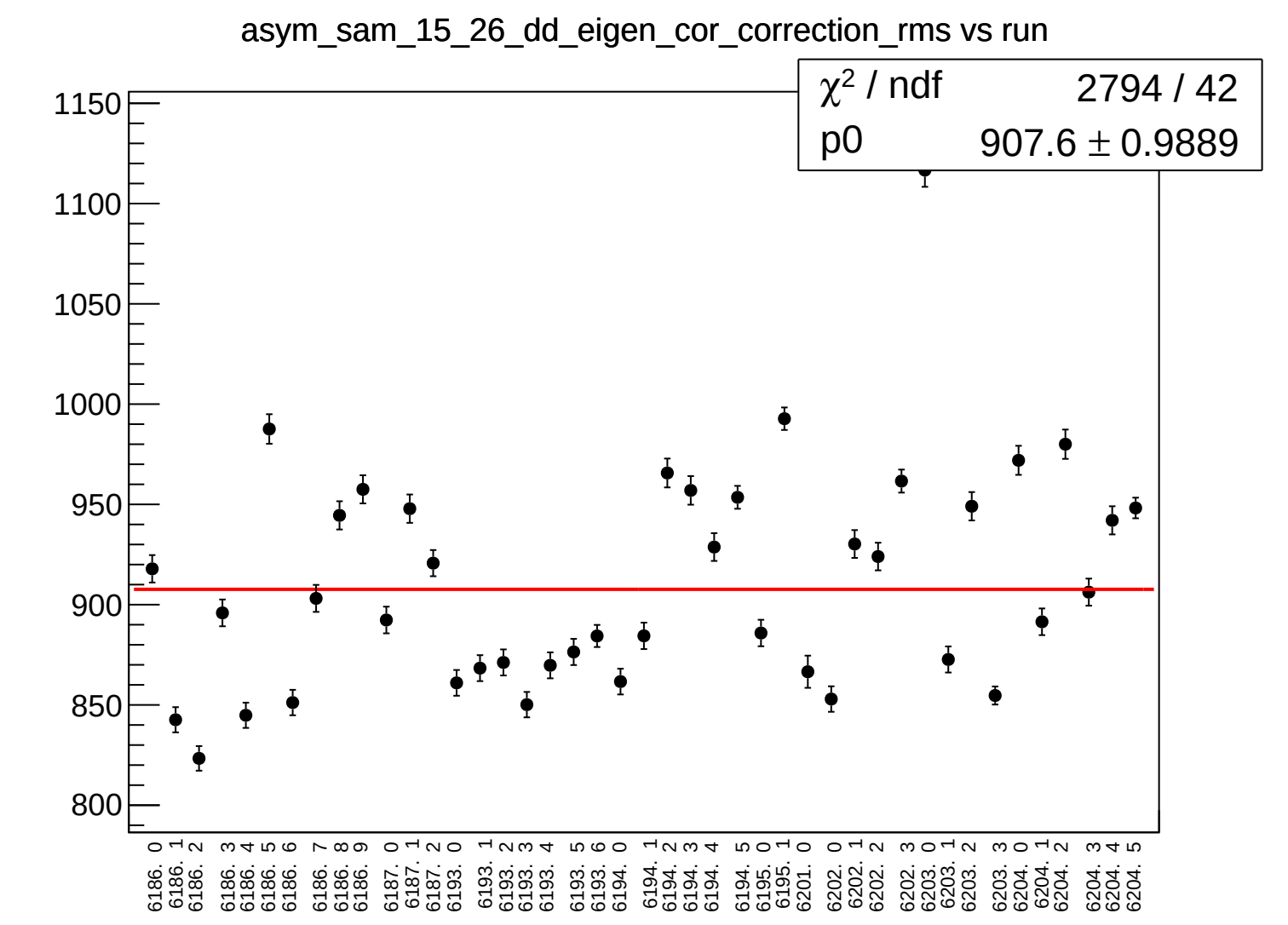
asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2794 / 42
p0 907.6 ± 0.9889
1150
1100
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1000
950
900
850
800
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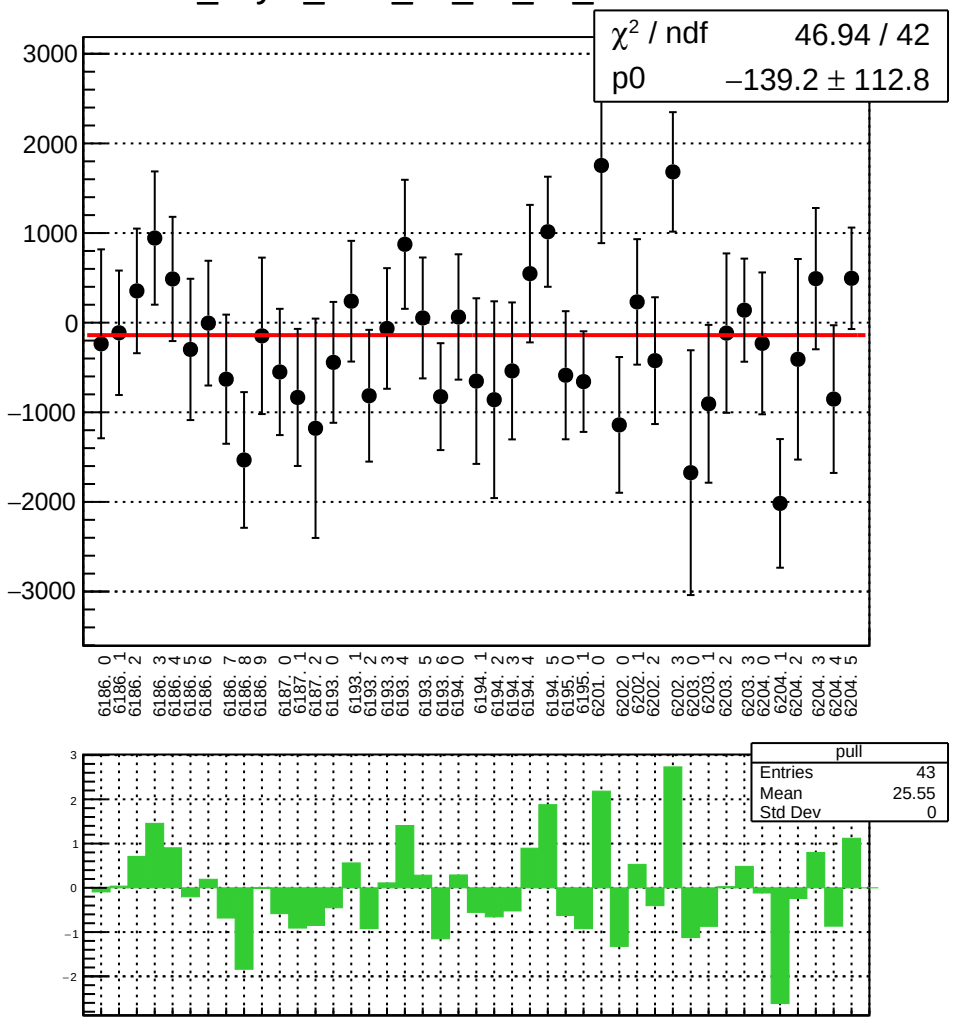
dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 46.94 / 42
p0 −139.2 ± 112.8
3000
2000
1000
0
−1000
−2000
−3000
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pull
Entries 43
Mean 25.55
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04462
Std Dev 1.044
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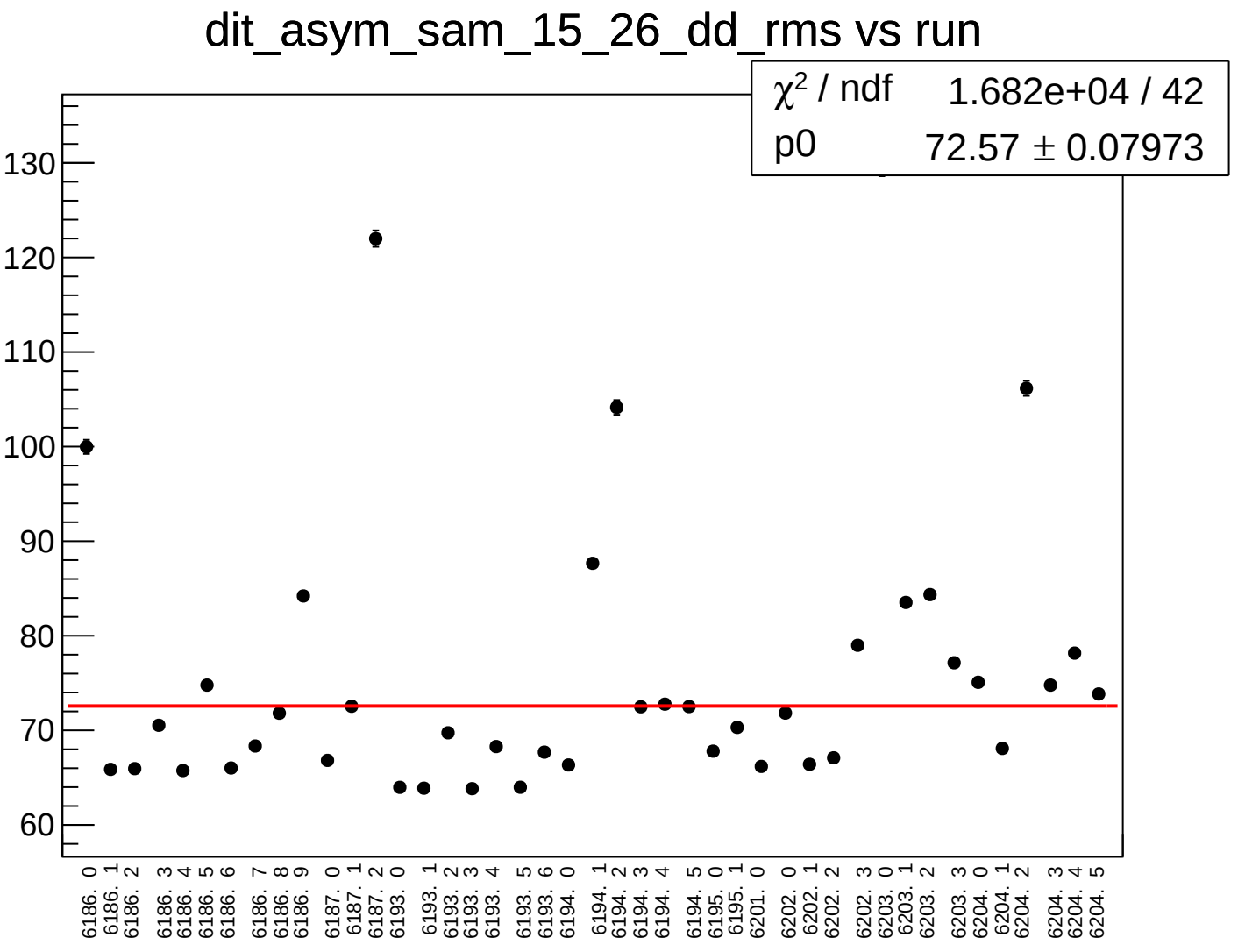
dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.682e+04 / 42
p0 72.57 ± 0.07973
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120
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100
90
80
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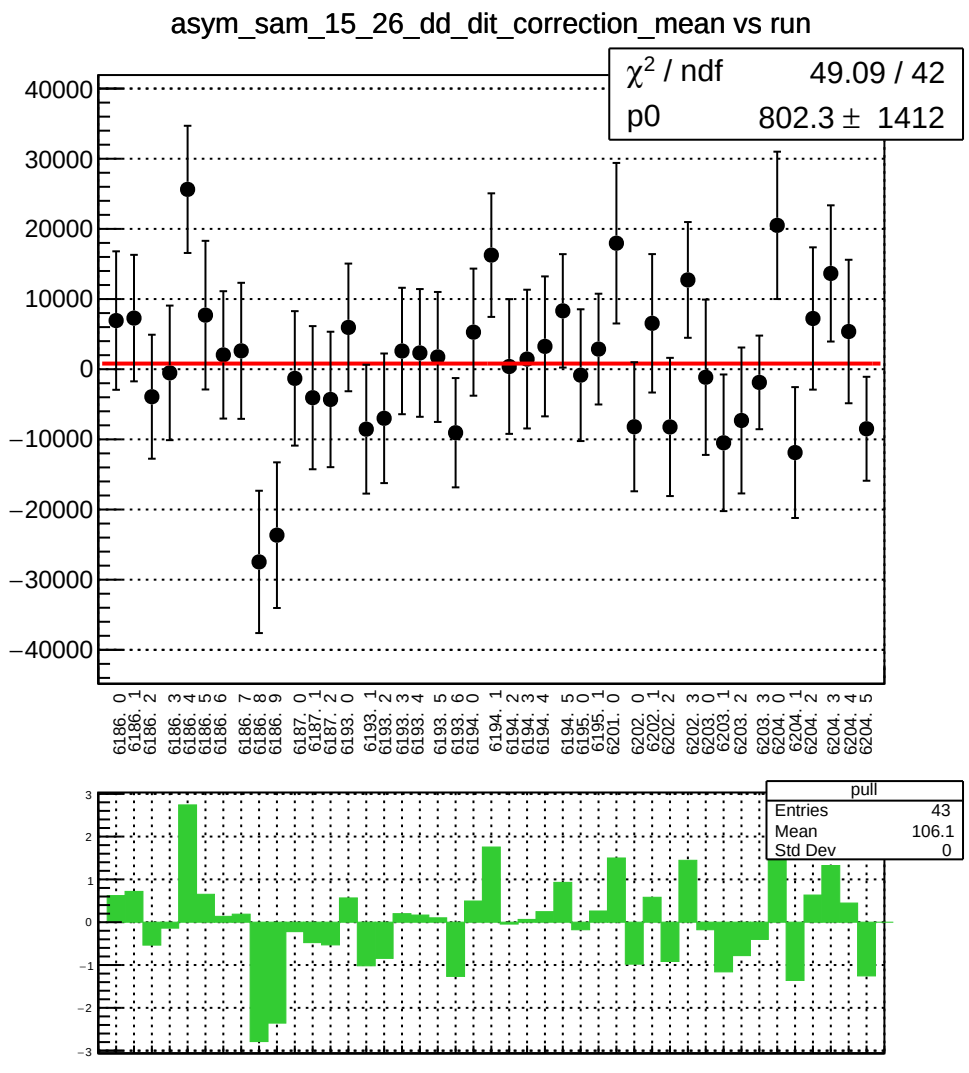
asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 49.09 / 42
p0 802.3 ± 1412
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20000
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−10000
−20000
−30000
−40000
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pull
Entries 43
Mean 106.1
Std Dev 0
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−3
pull1D
Entries 43
Mean 0.005366
Std Dev 1.068
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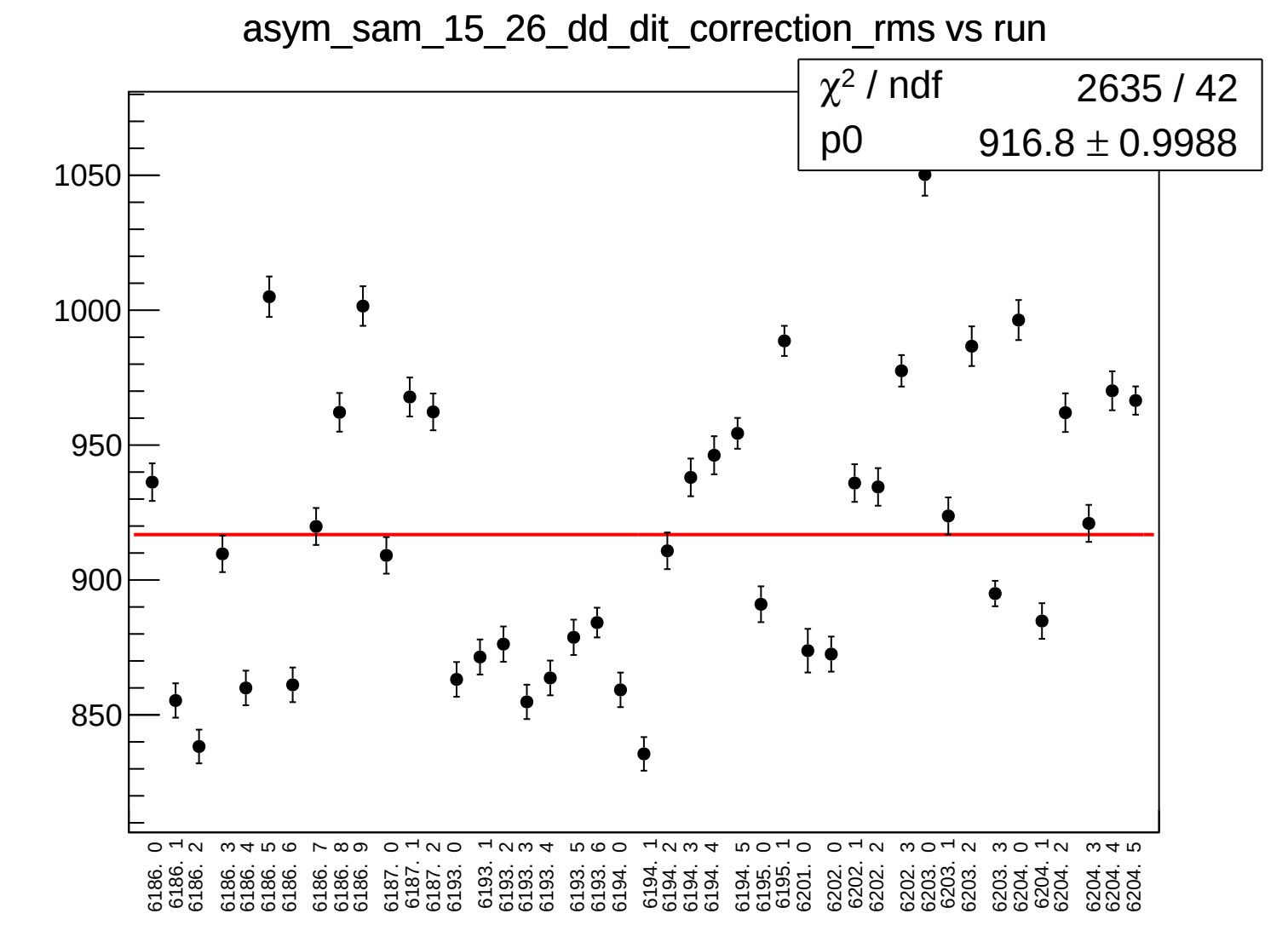
asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 2635 / 42
p0 916.8 ± 0.9988
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1000
950
900
850
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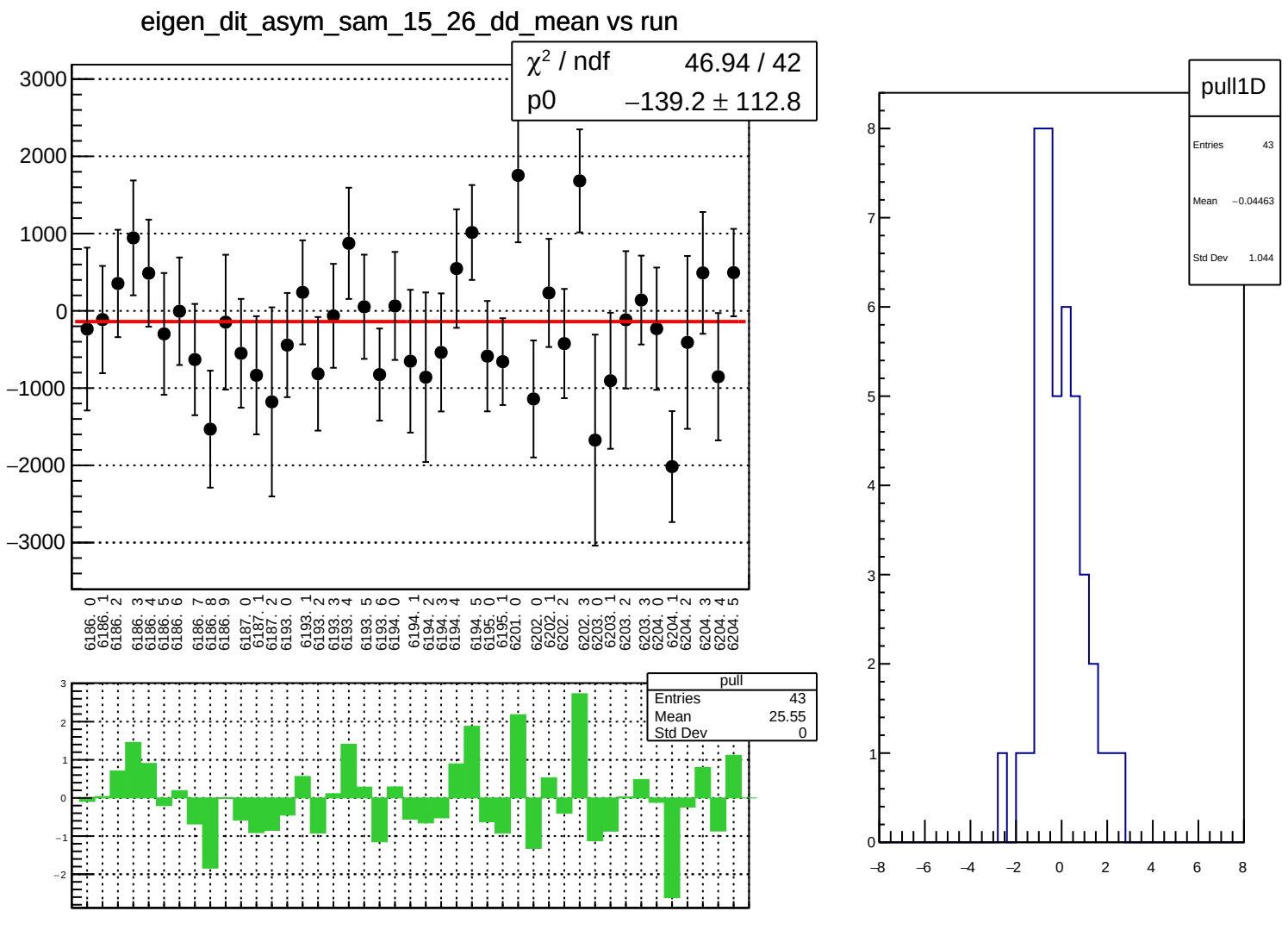
eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 46.94 / 42
p0 −139.2 ± 112.8
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2000
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−1000
−2000
−3000
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6202. 2
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6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 25.55
Std Dev 0
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1
0
−1
−2
pull1D
Entries 43
Mean −0.04463
Std Dev 1.044
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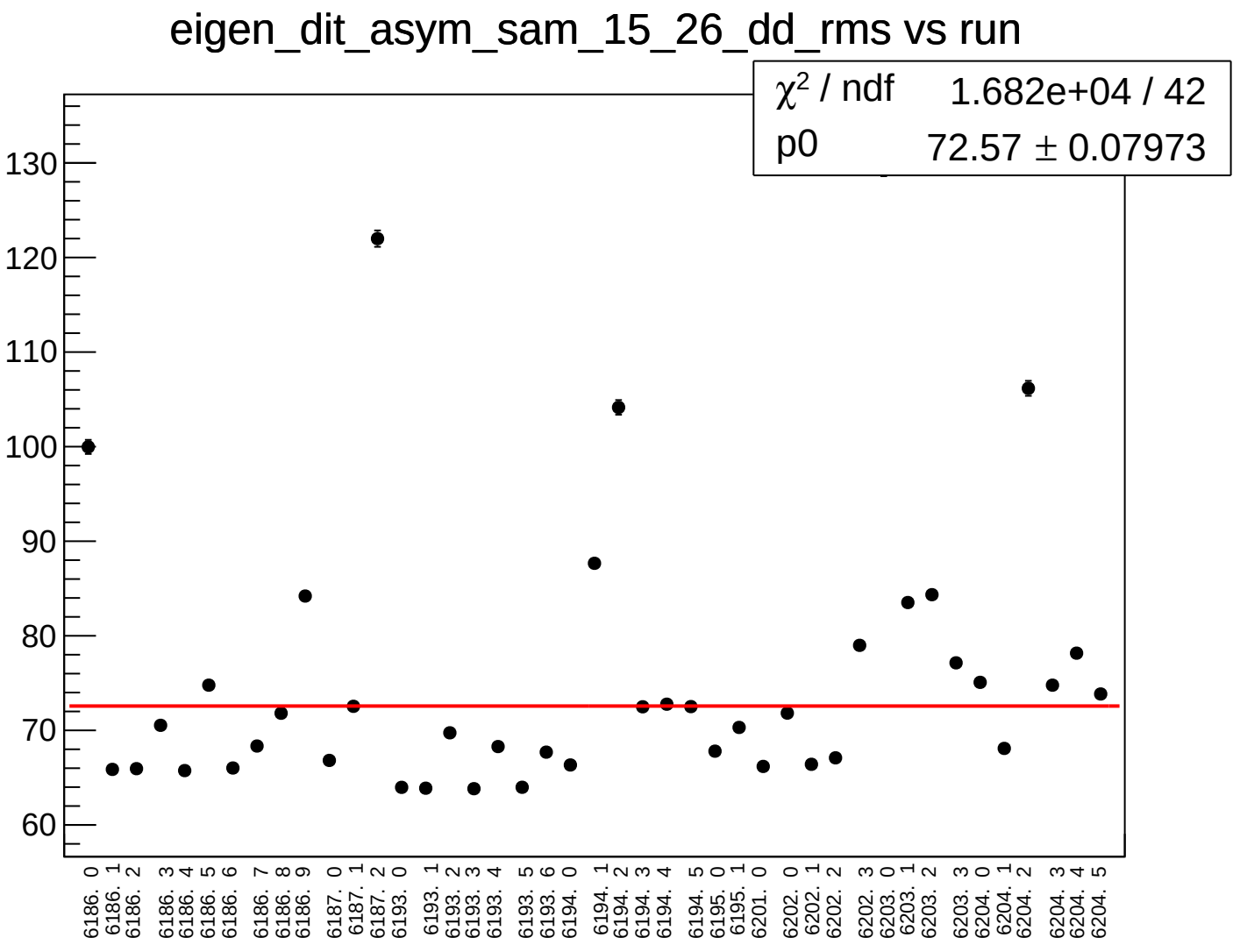
eigen_dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.682e+04 / 42
p0 72.57 ± 0.07973
130
120
110
100
90
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6186. 0
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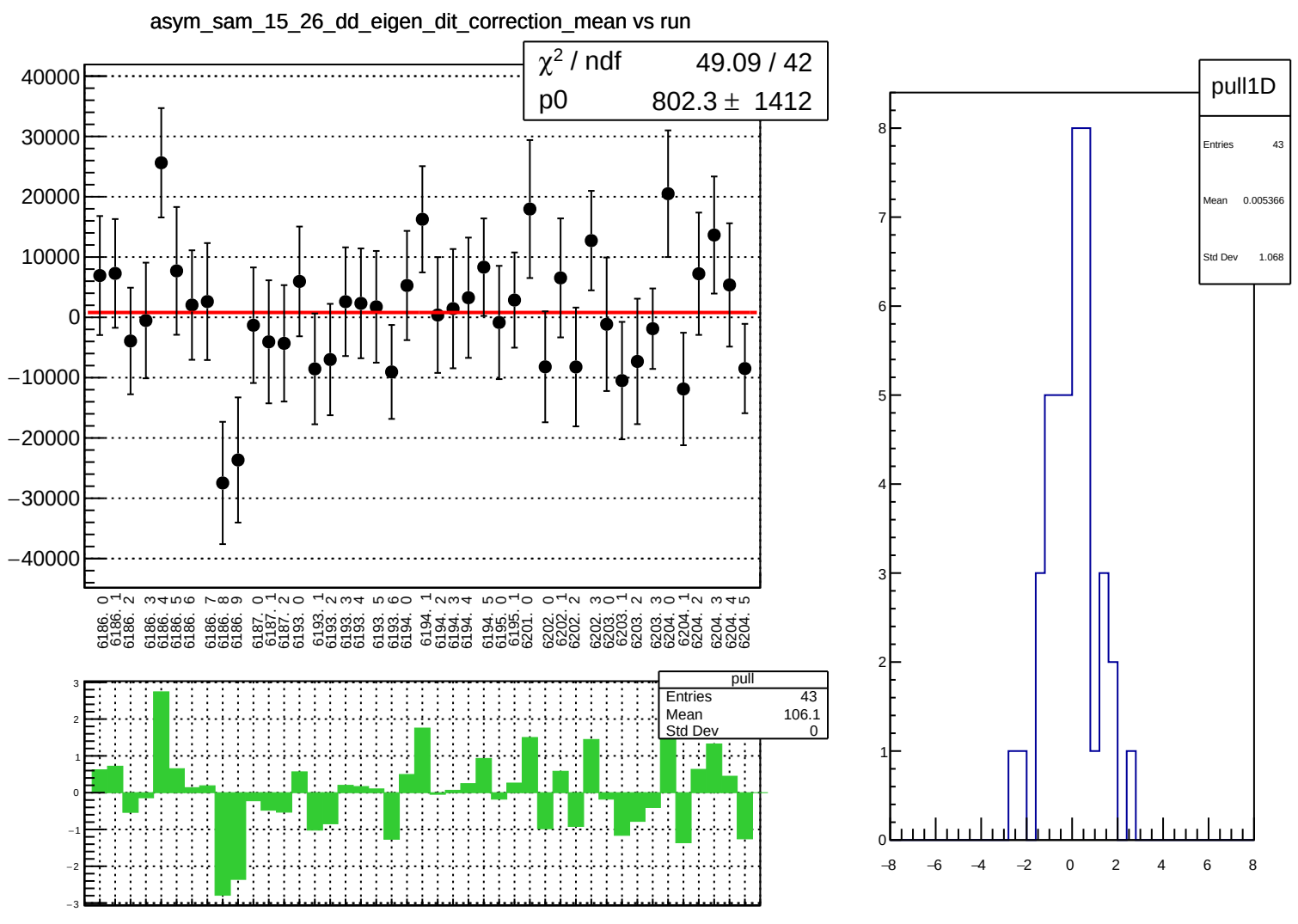
asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 49.09 / 42
p0 802.3 ± 1412
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pull
Entries 43
Mean 106.1
Std Dev 0
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1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.005366
Std Dev 1.068
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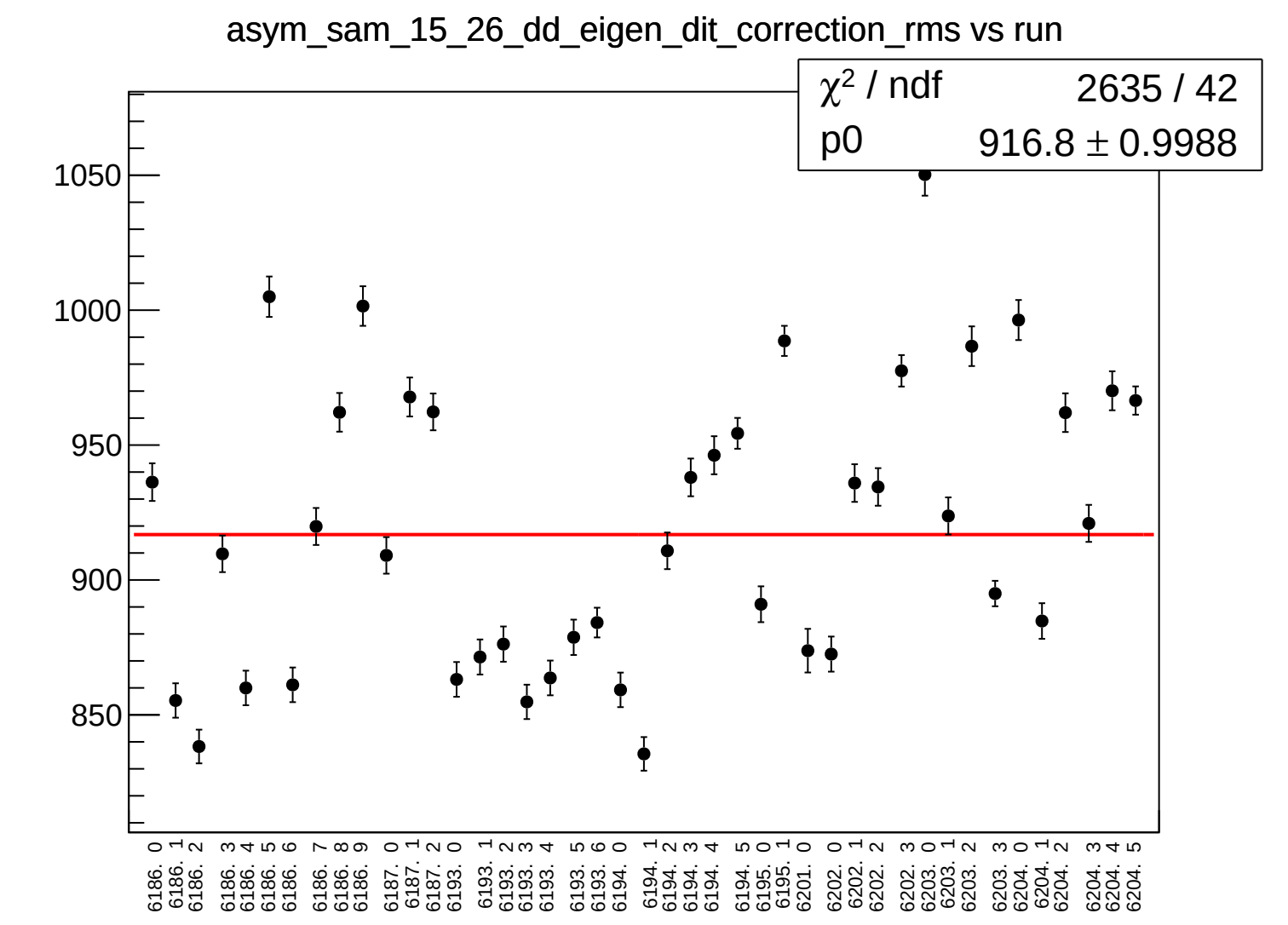
asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2635 / 42
p0 916.8 ± 0.9988
1050
1000
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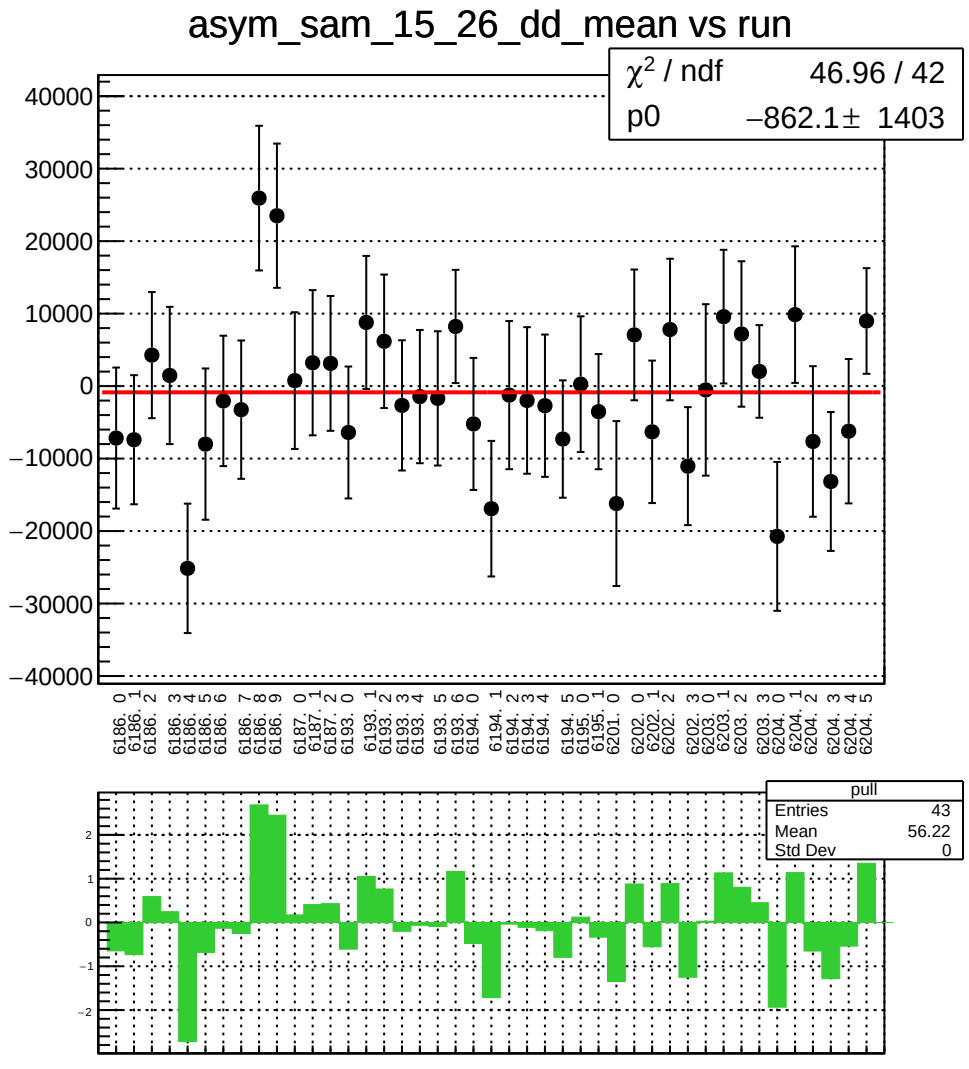
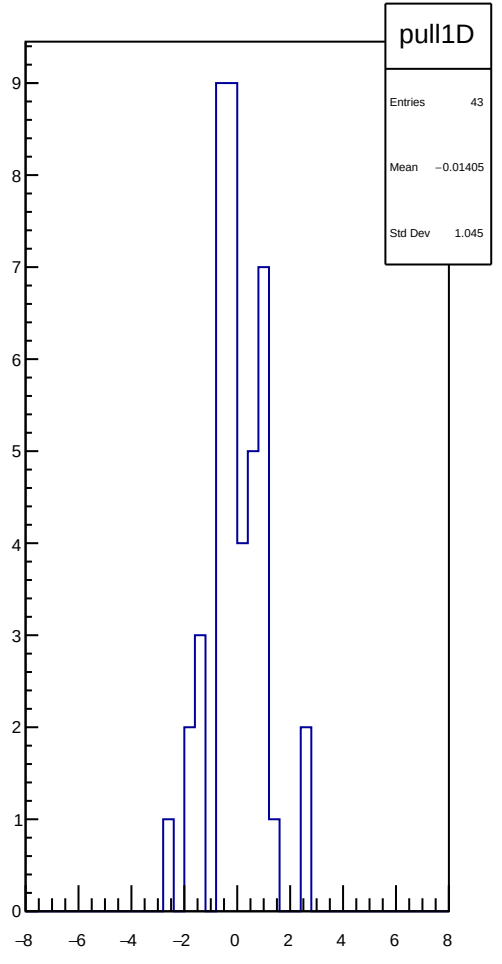
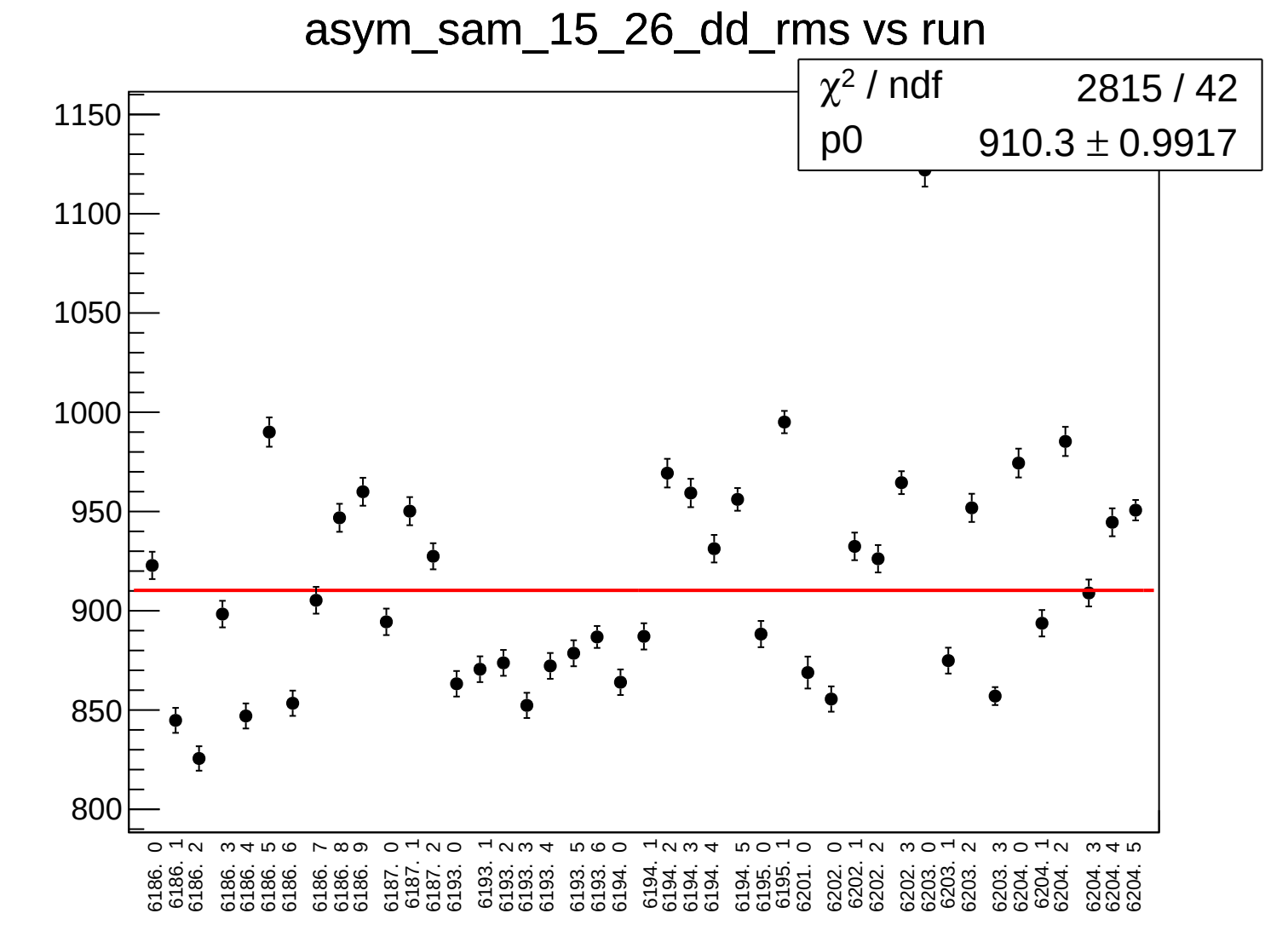
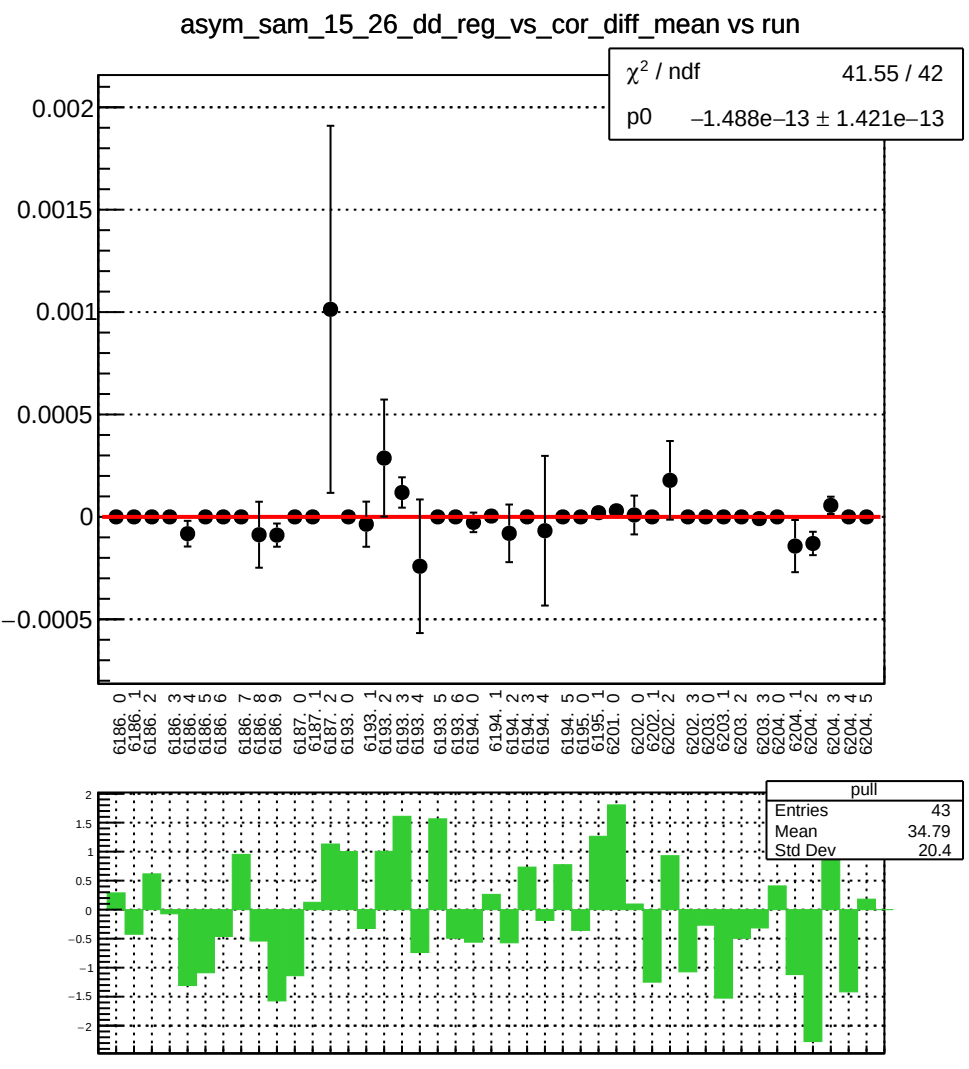
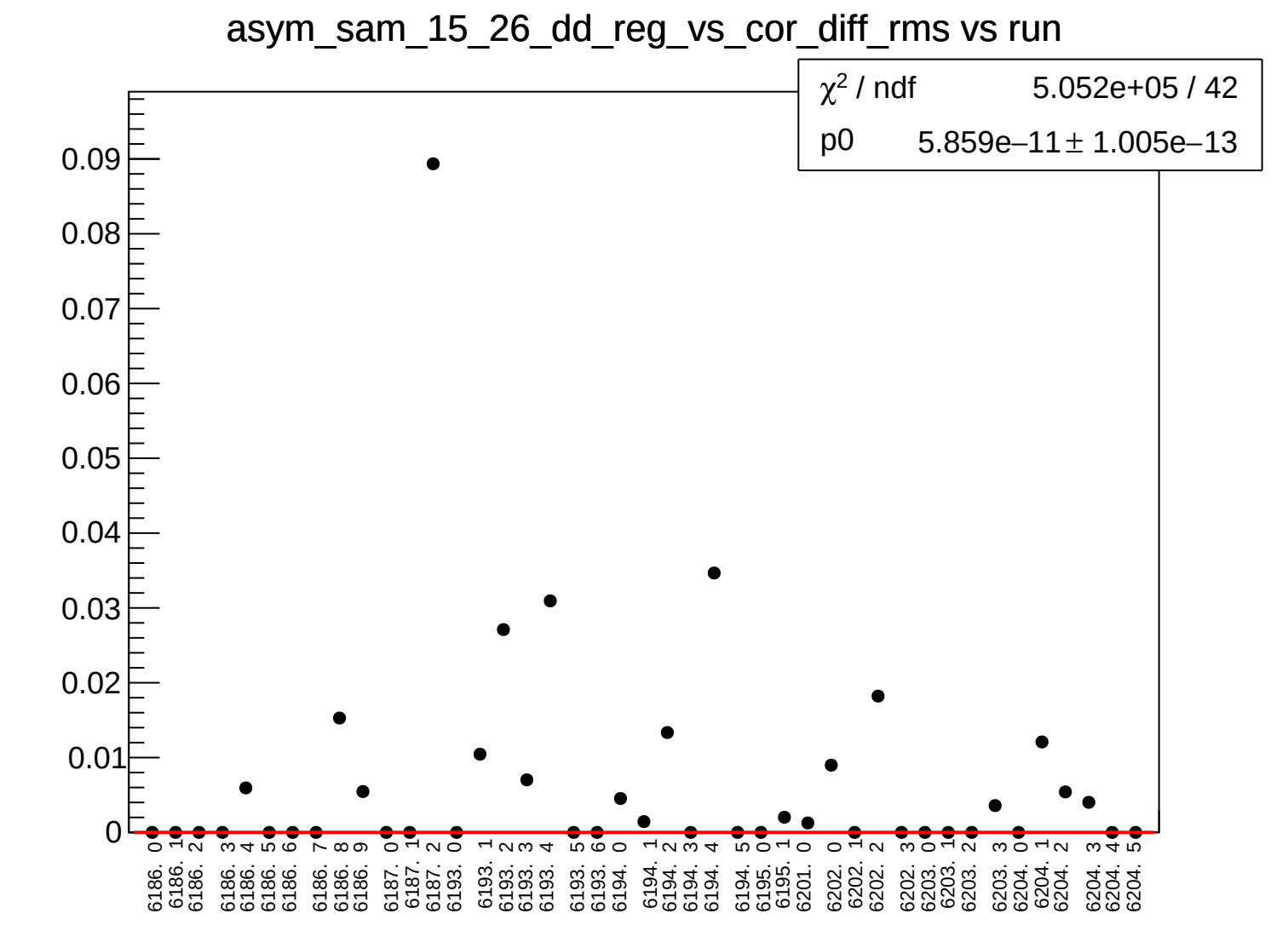
6204. 4
6204. 5

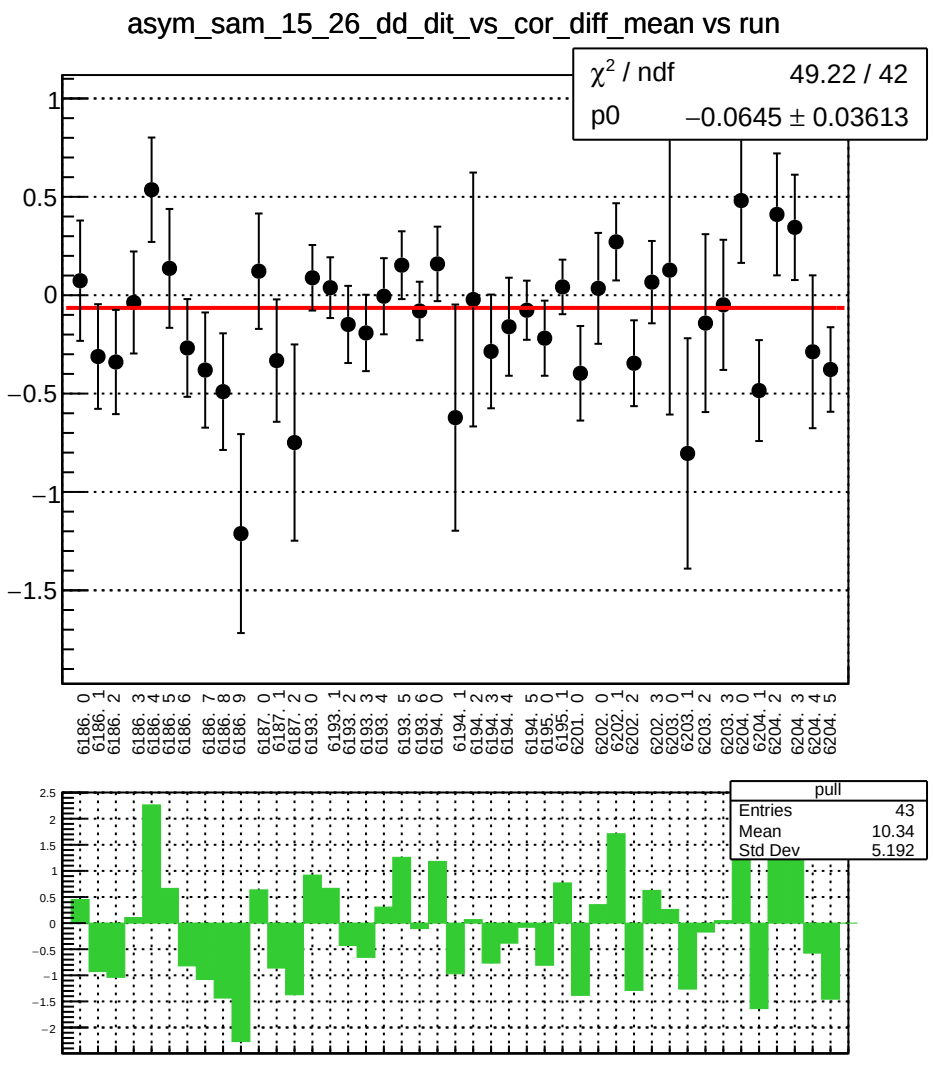

asym_sam_15_26_dd_mean vs run
χ² / ndf 46.96 / 42
p0 −862.1± 1403
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 56.22
Std Dev 0
2
1
0
−1
−2

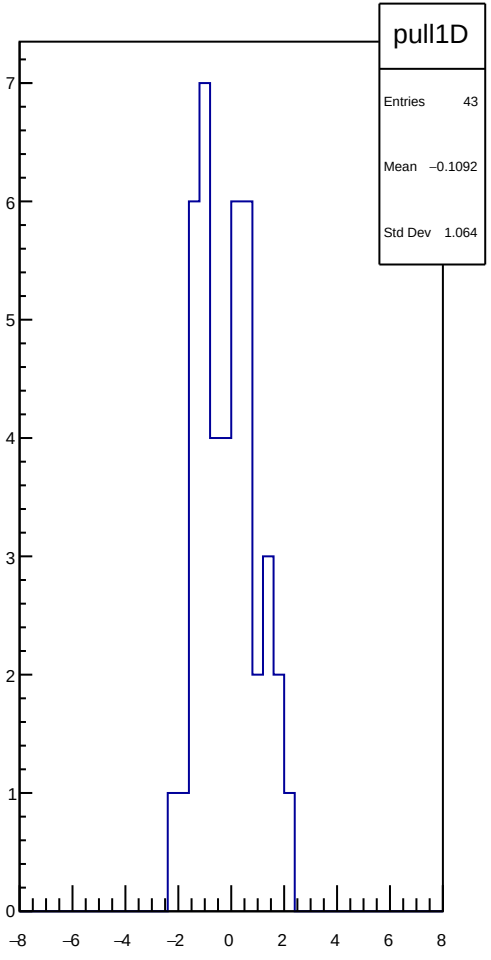

pull1D
Entries 43
Mean −0.01405
Std Dev 1.045
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

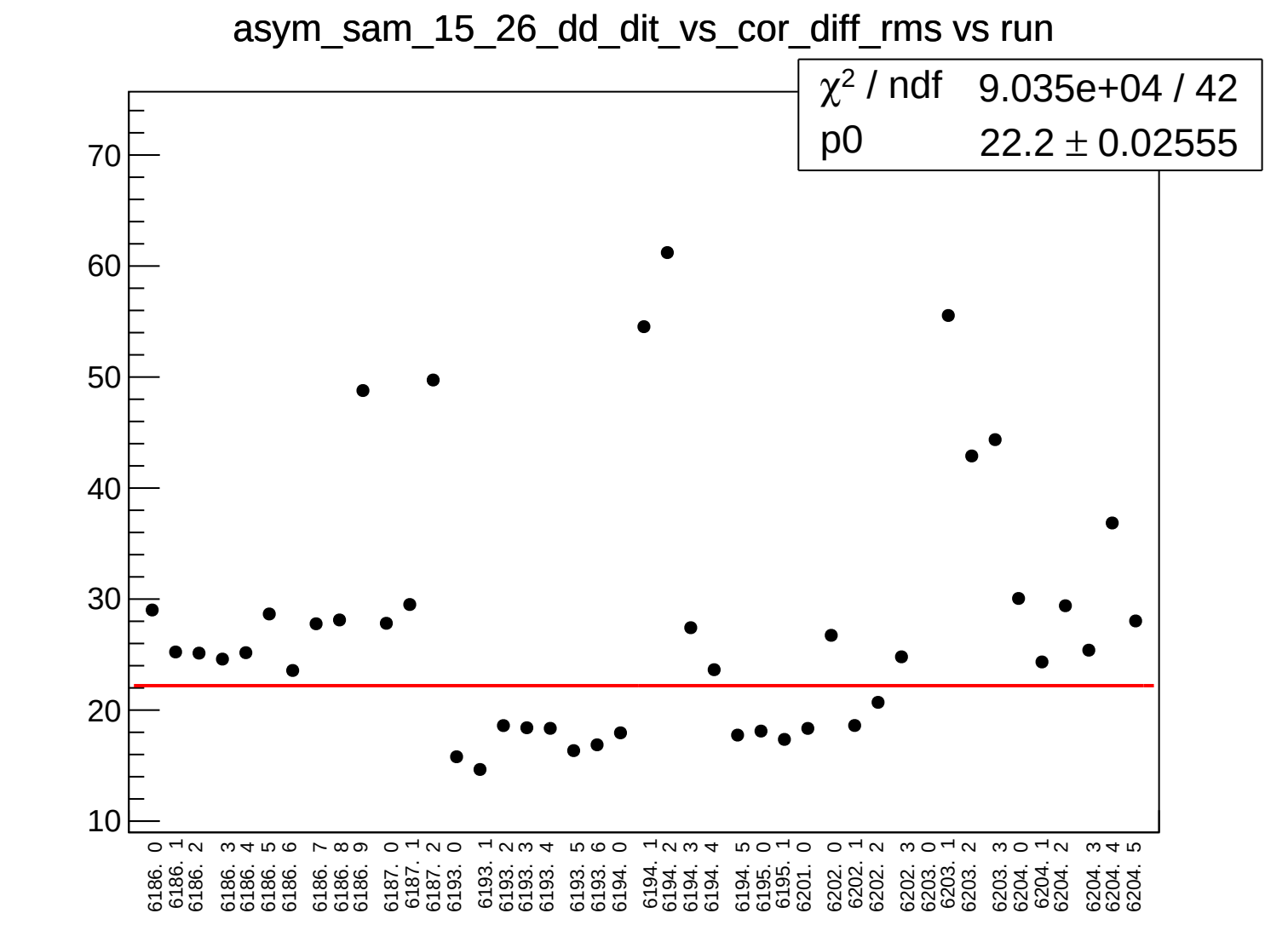

asym_sam_15_26_dd_rms vs run
χ² / ndf 2815 / 42
p0 910.3 ± 0.9917
1150
1100
1050
1000
950
900
850
800
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

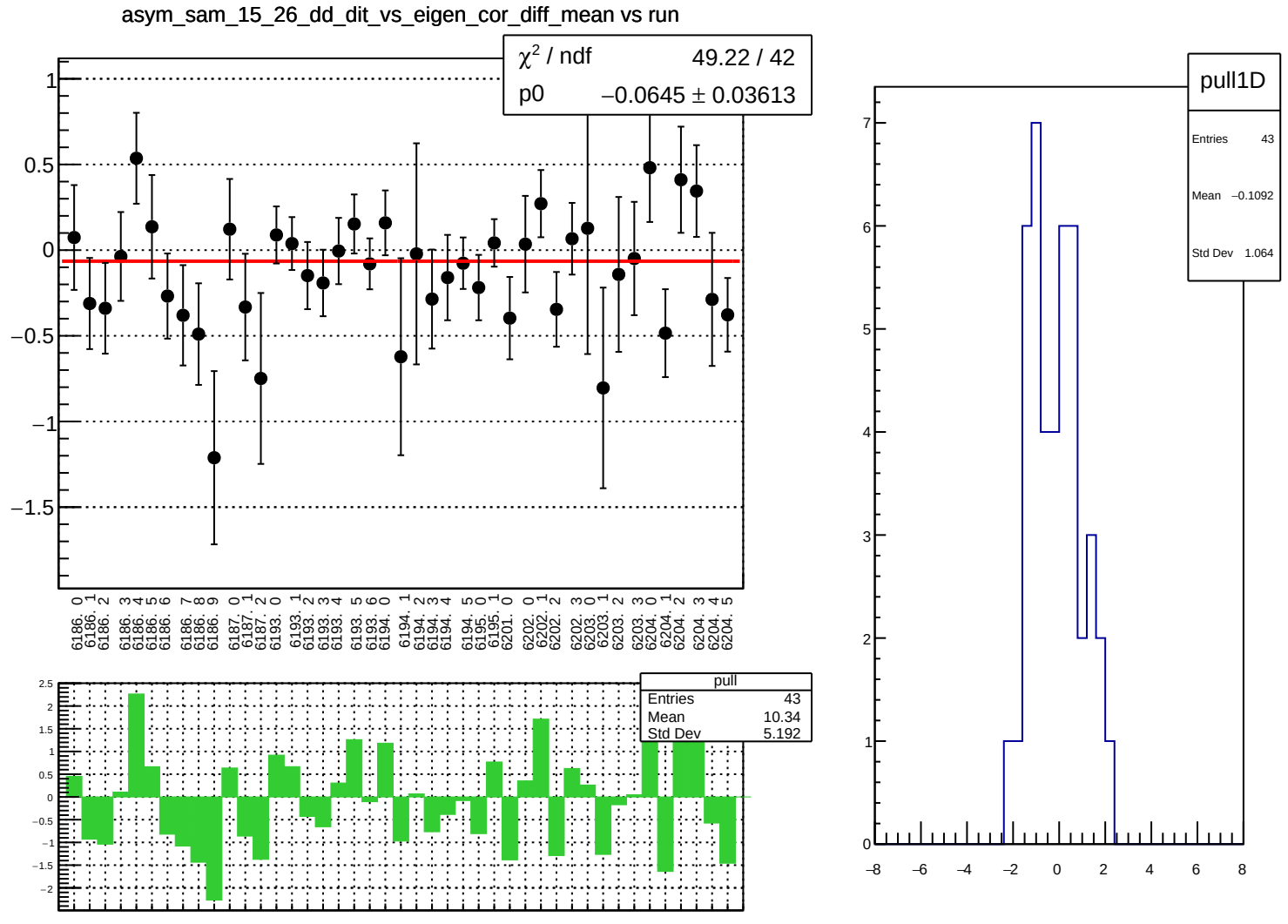

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 41.55 / 42
p0 −1.488e−13 ± 1.421e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 34.79
Std Dev 20.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.081
Std Dev 0.9797
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

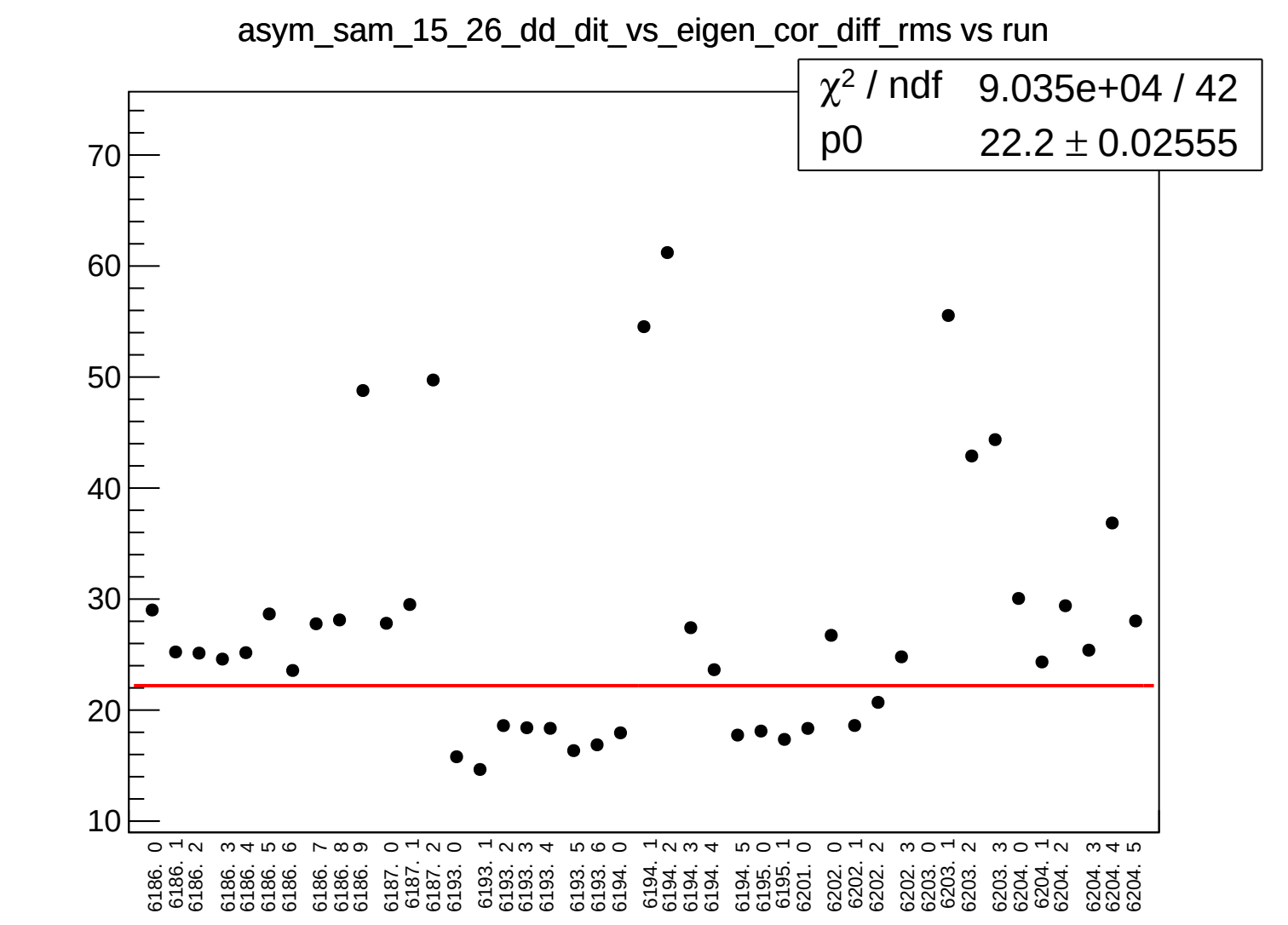

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 5.052e+05 / 42
p0 5.859e−11 ± 1.005e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

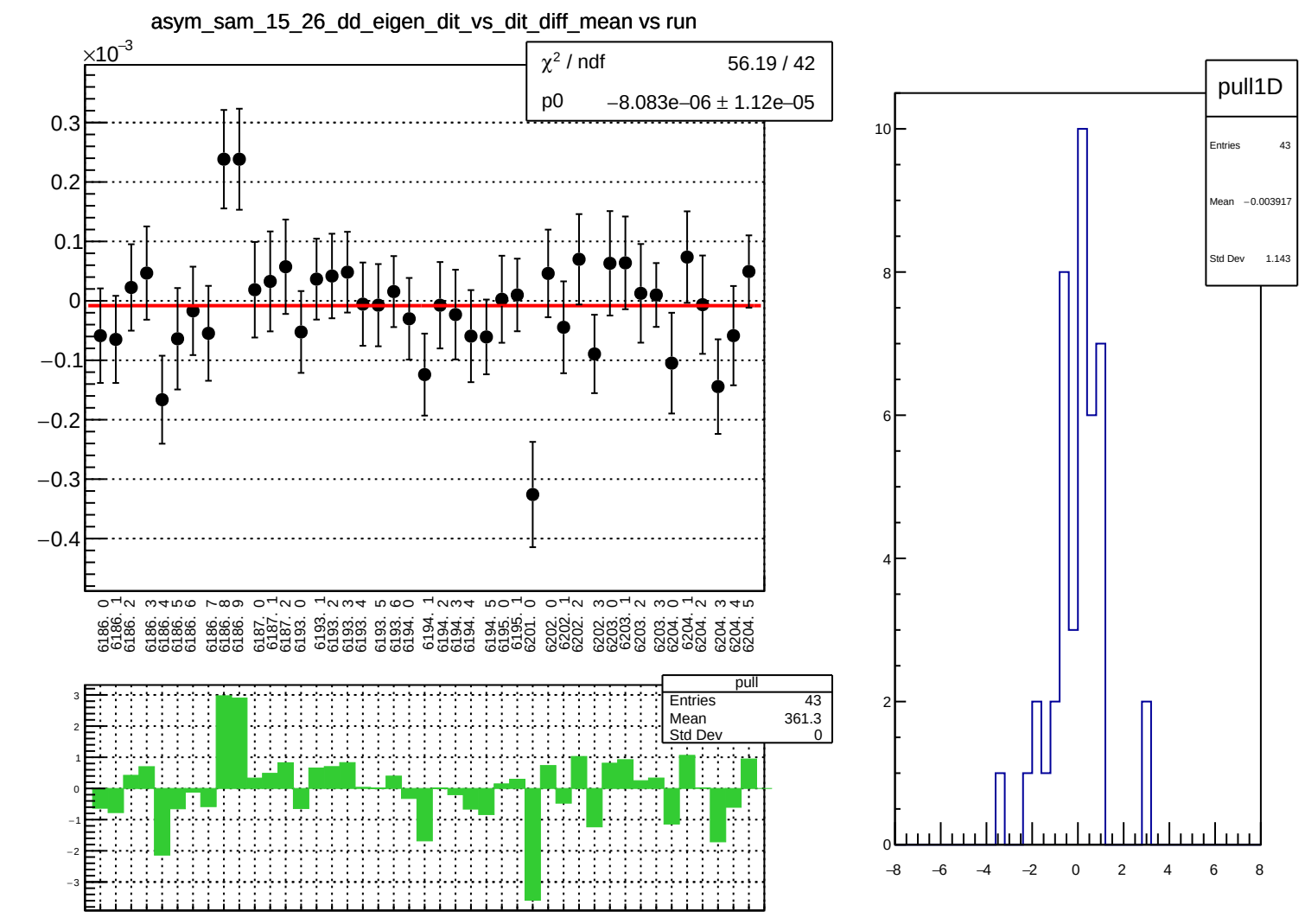

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 49.22 / 42
p0 −0.0645 ± 0.03613
pull
Entries 43
Mean 10.34
Std Dev 5.192

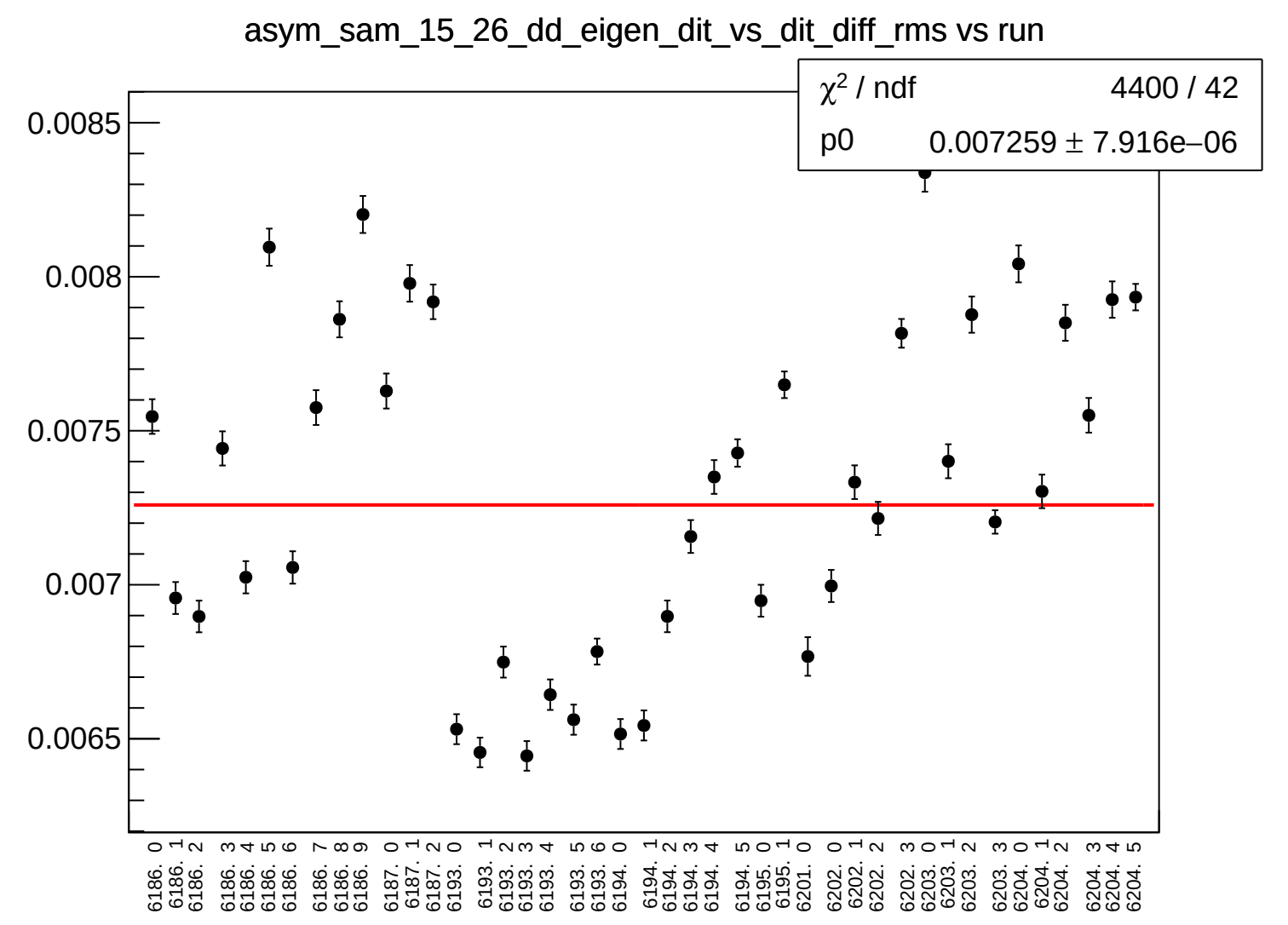

pull1D
Entries 43
Mean −0.1092
Std Dev 1.064

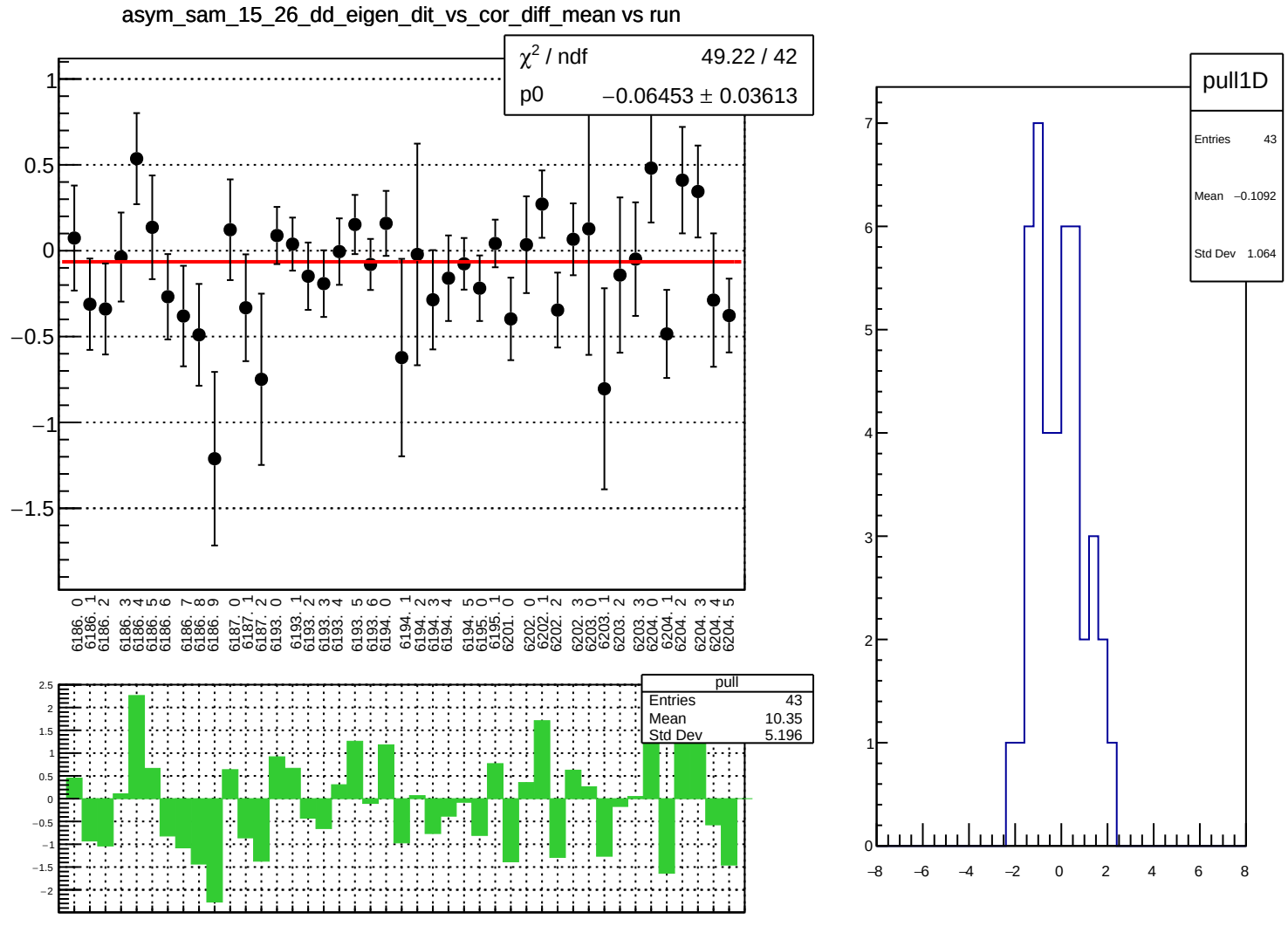

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.035e+04 / 42
p0 22.2 ± 0.02555
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

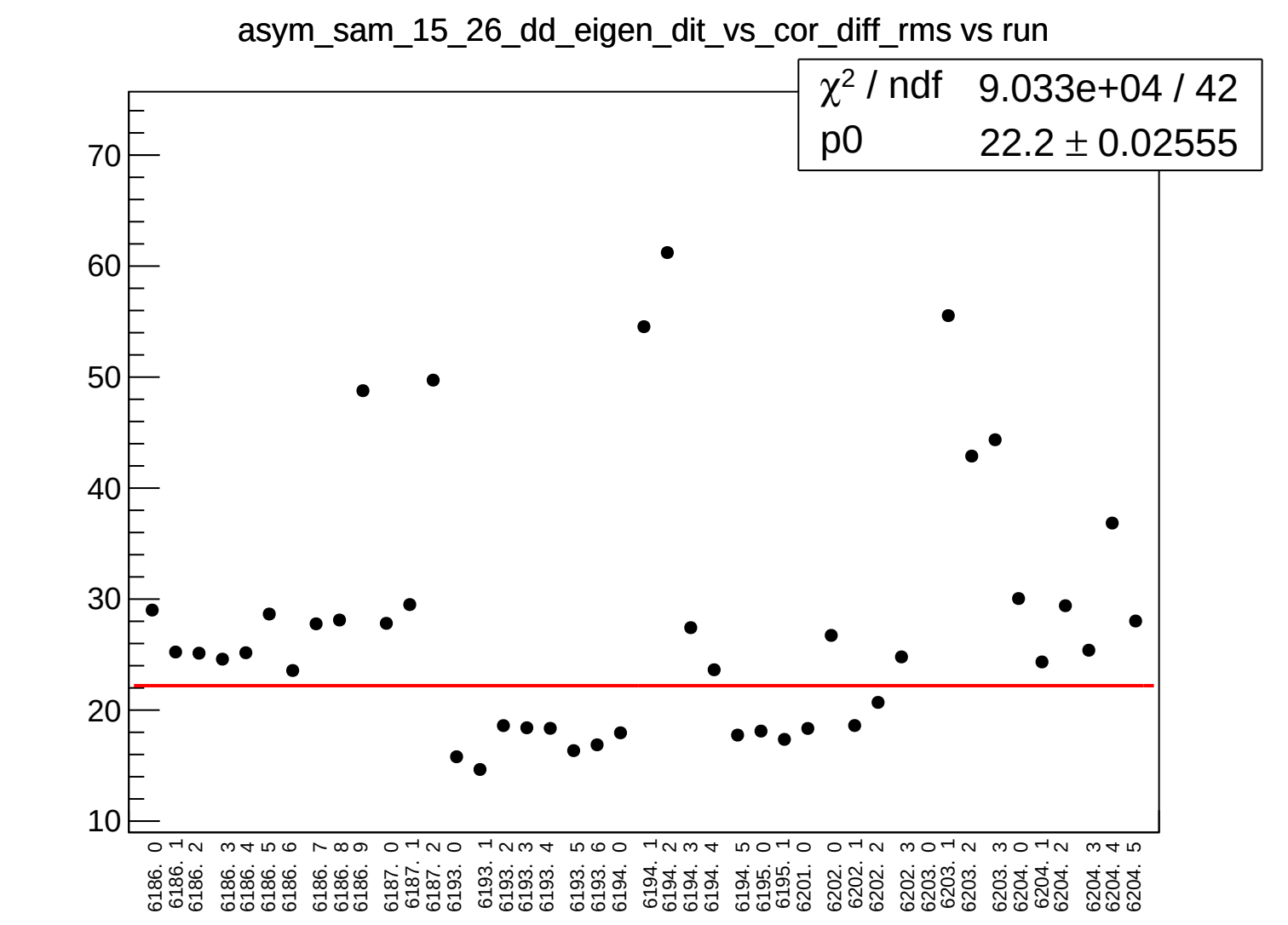

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.22 / 42
p0 −0.0645 ± 0.03613
1
0.5
0
−0.5
−1
−1.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 10.34
Std Dev 5.192
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.1092
Std Dev 1.064
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

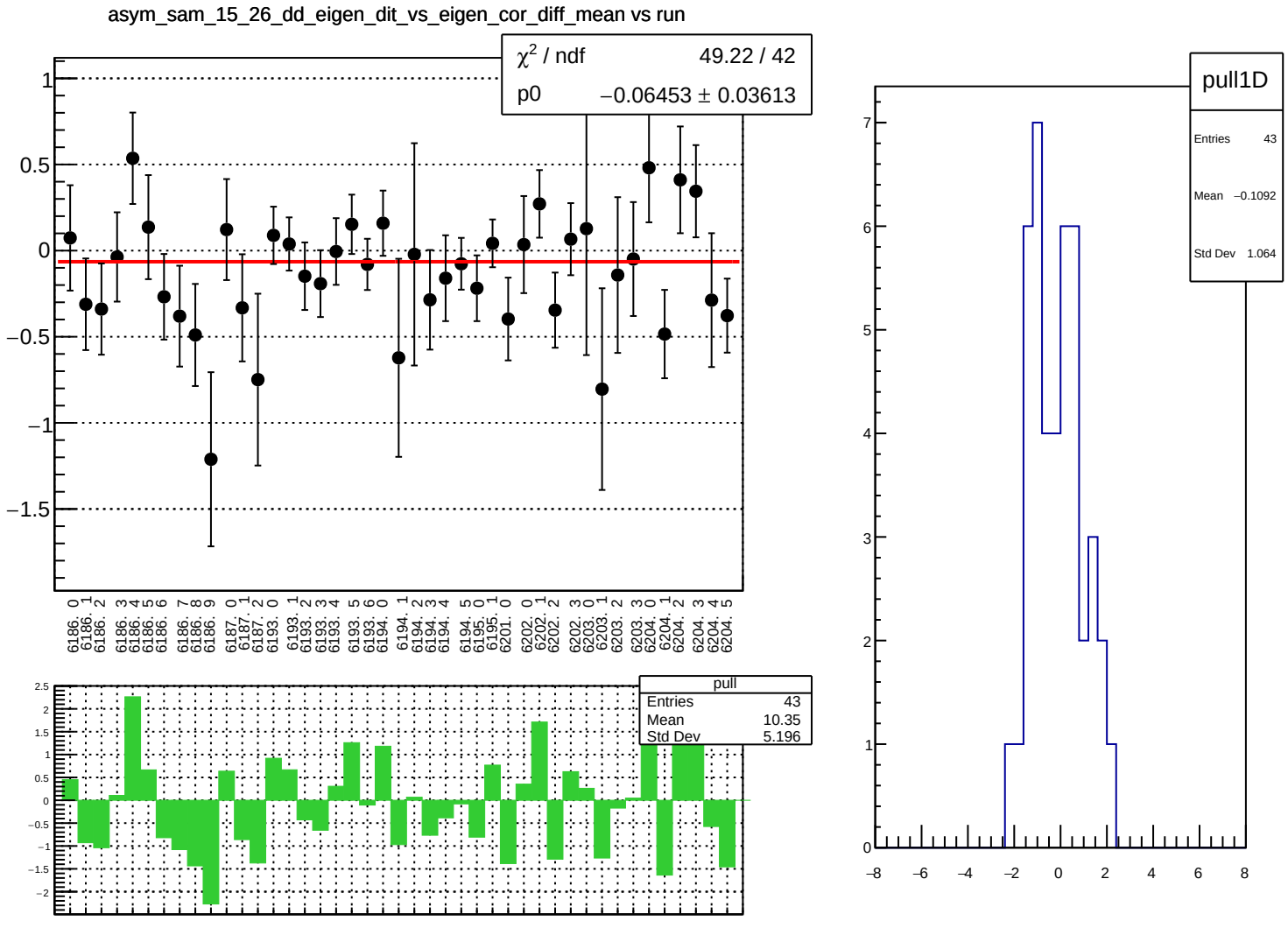

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.035e+04 / 42
p0 22.2 ± 0.02555
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

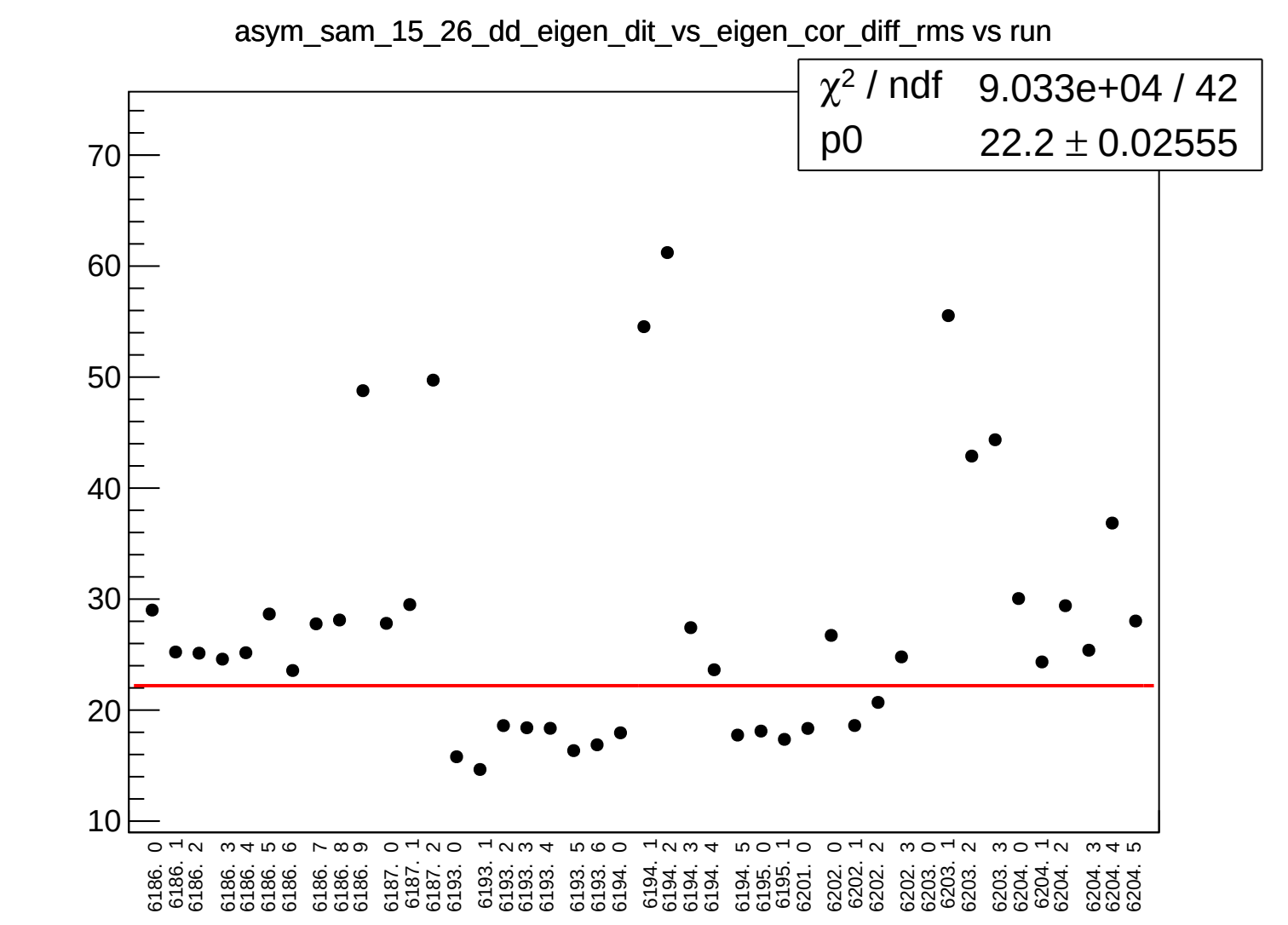

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 56.19 / 42
p0 −8.083e−06 ± 1.12e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 361.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.003917
Std Dev 1.143
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

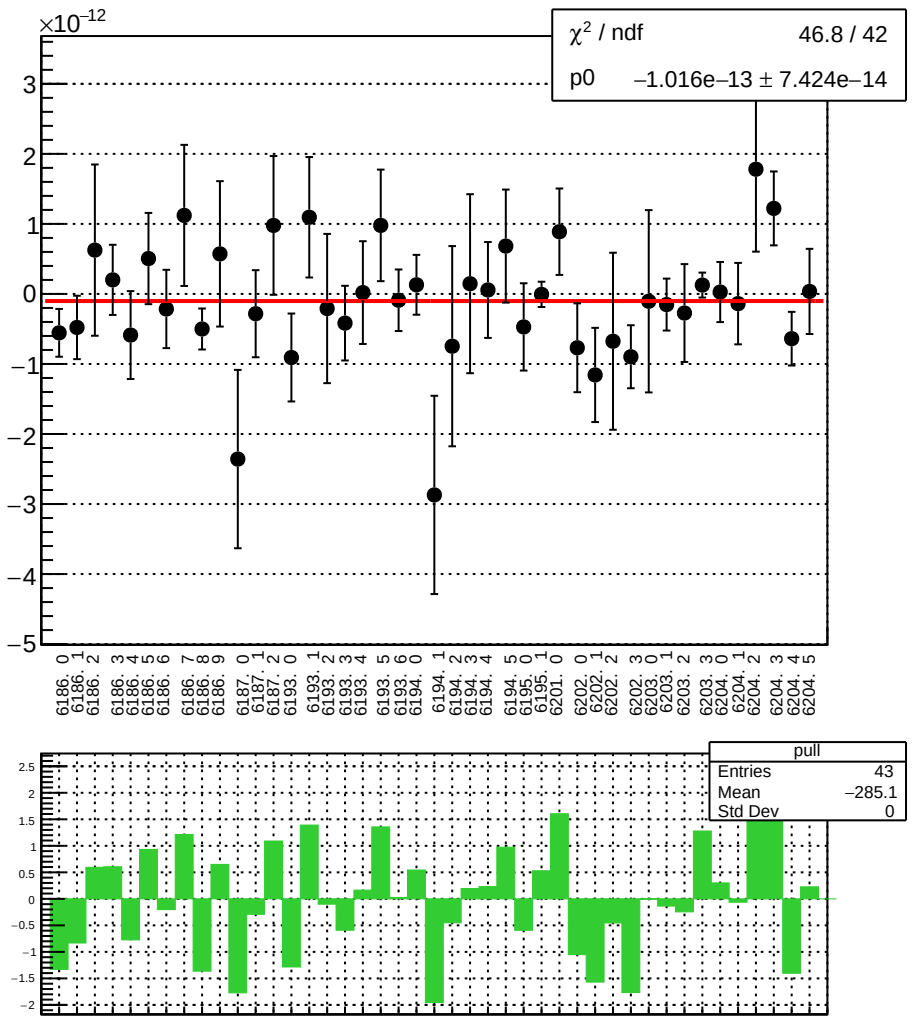

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4400 / 42
p0 0.007259 ± 7.916e−06
0.0085
0.008
0.0075
0.007
0.0065
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

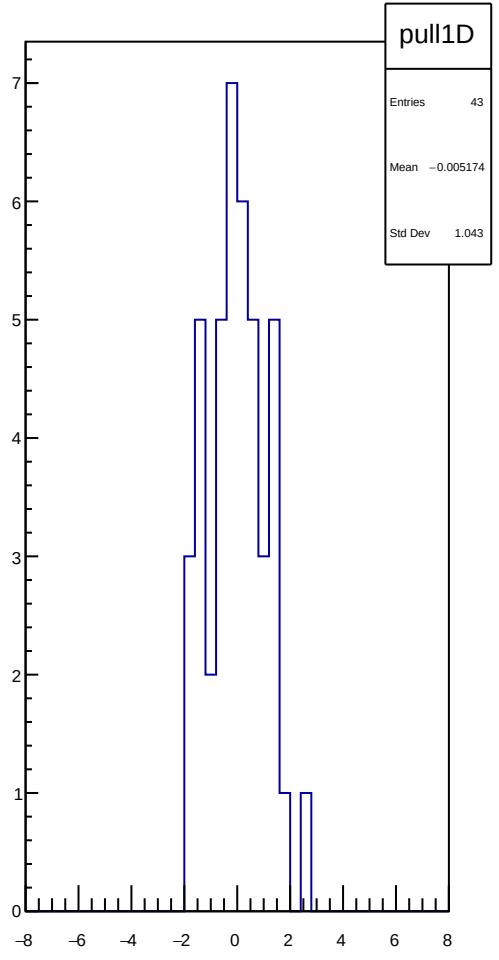

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 49.22 / 42
p0 −0.06453 ± 0.03613
pull
Entries 43
Mean 10.35
Std Dev 5.196
pull1D
Entries 43
Mean −0.1092
Std Dev 1.064

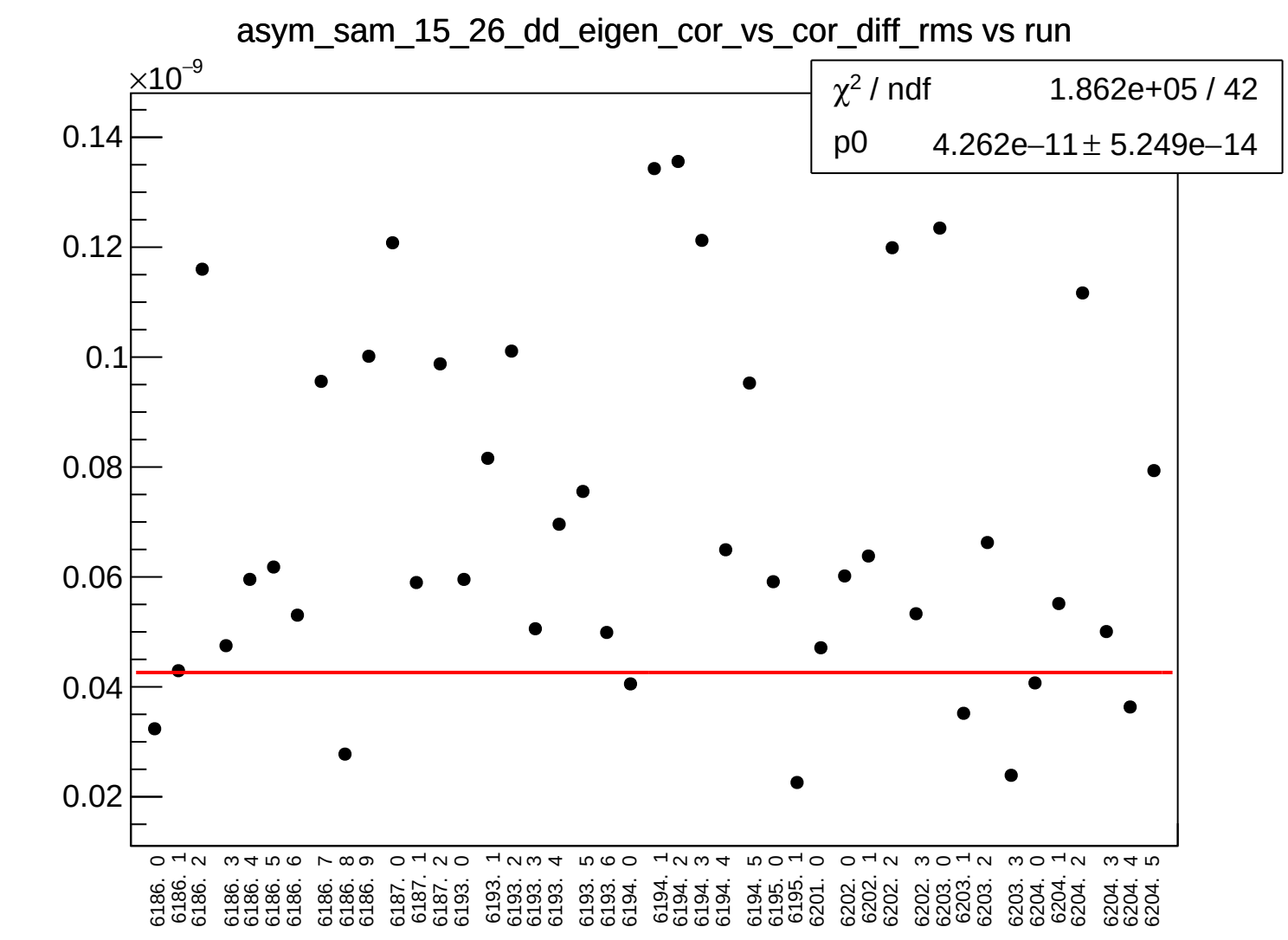

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.033e+04 / 42
p0 22.2 ± 0.02555
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

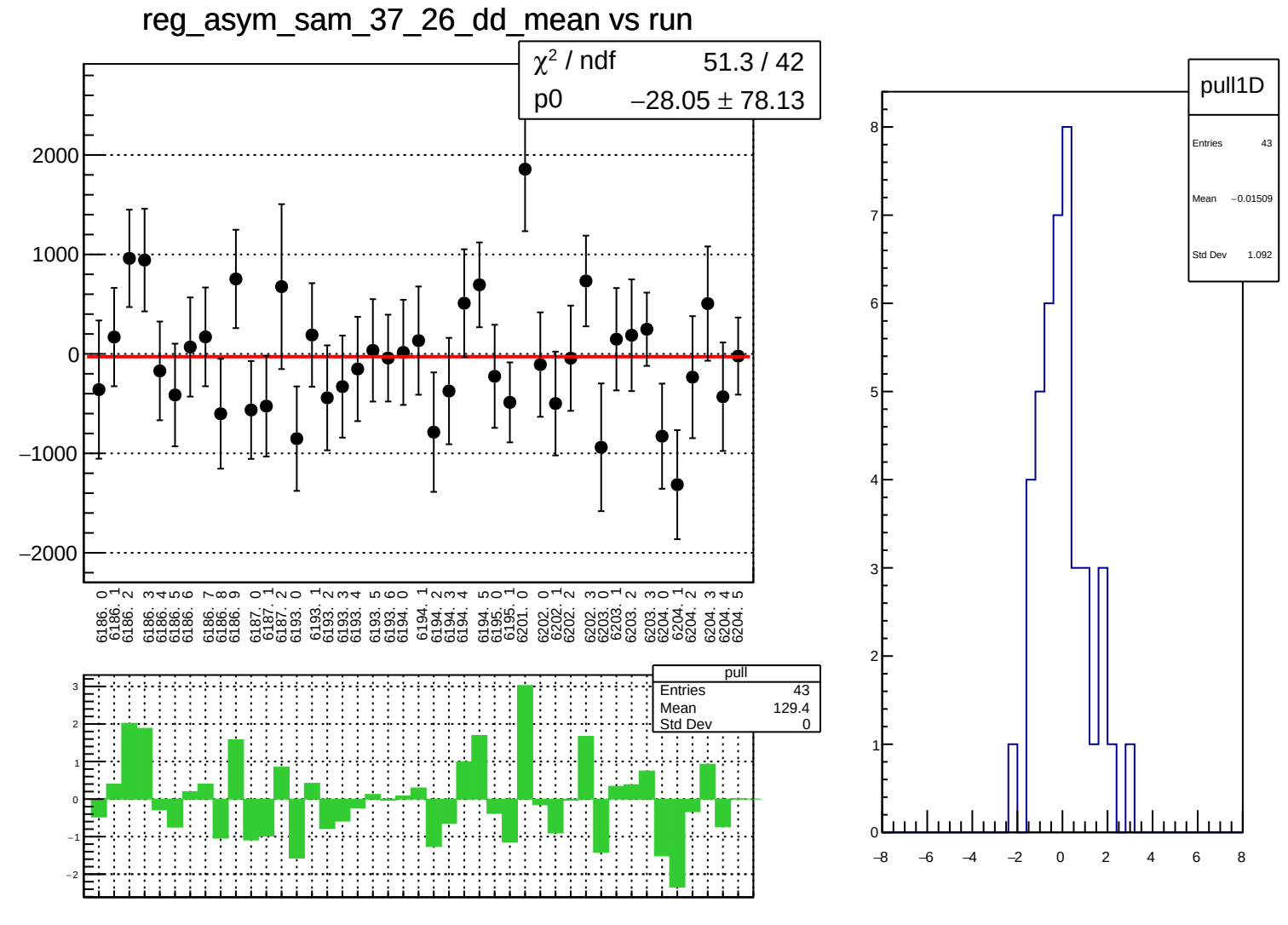

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 49.22 / 42
p0 −0.06453 ± 0.03613
pull
Entries 43
Mean 10.35
Std Dev 5.196
pull1D
Entries 43
Mean −0.1092
Std Dev 1.064

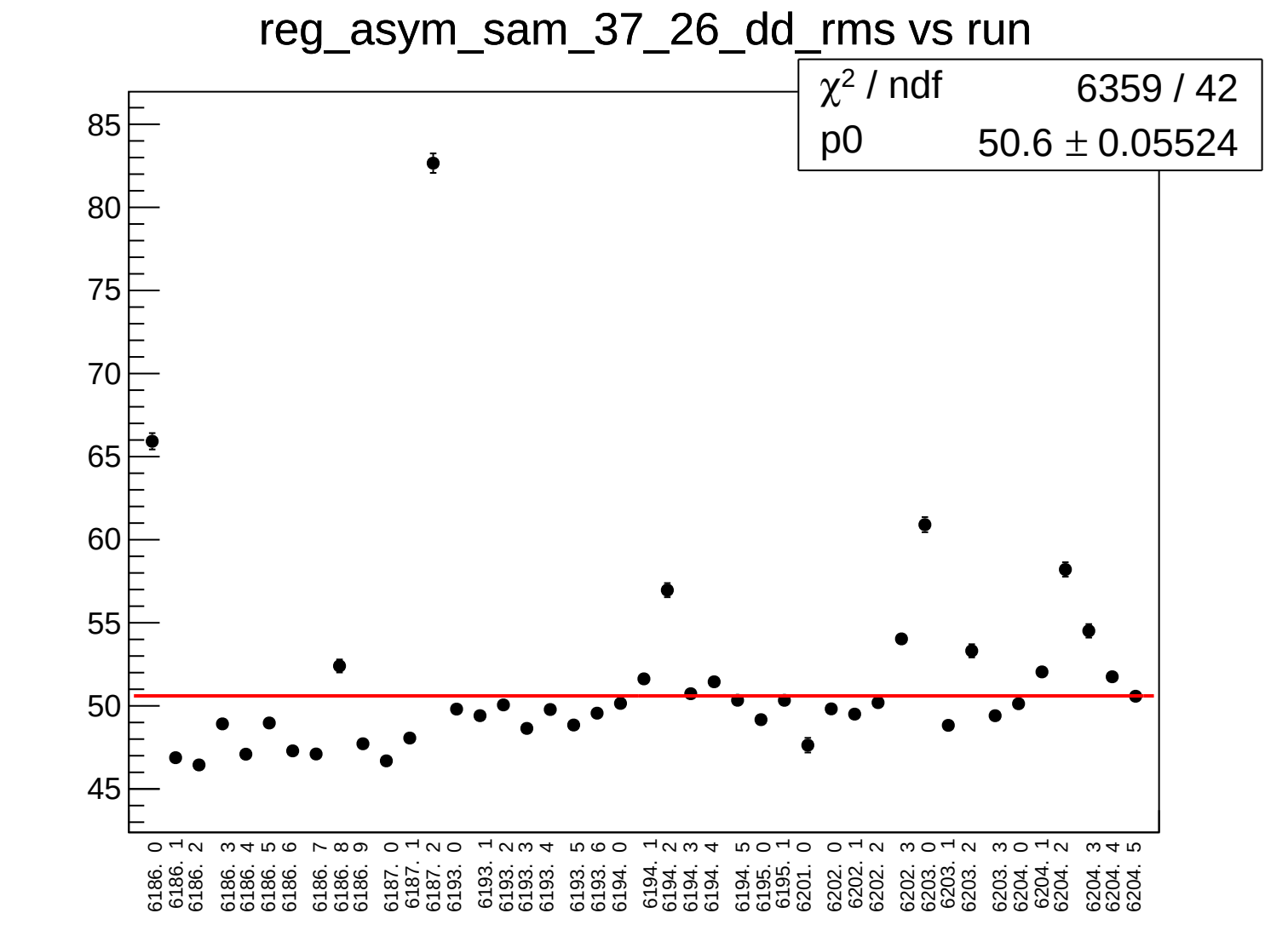

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.033e+04 / 42
p0 22.2 ± 0.02555
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

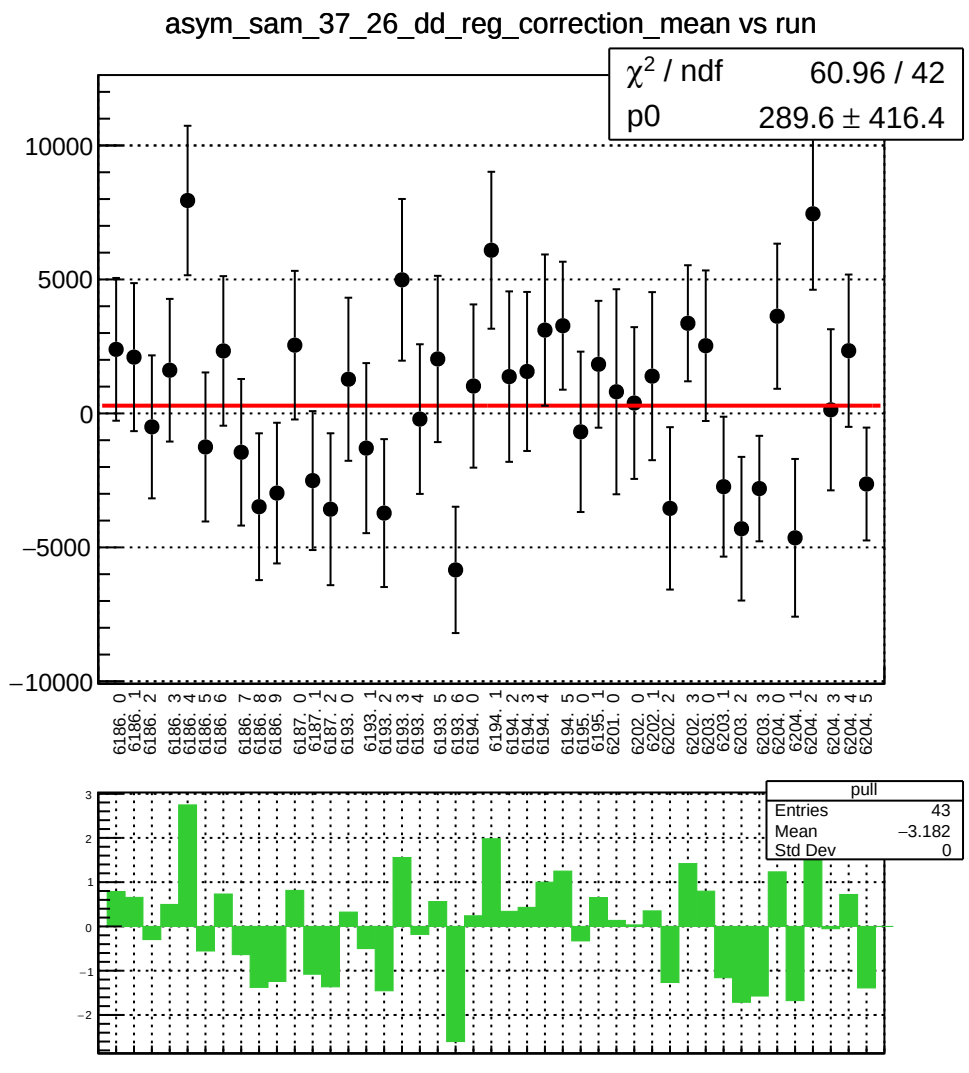

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 46.8 / 42
p0 −1.016e−13 ± 7.424e−14
pull
Entries 43
Mean −285.1
Std Dev 0

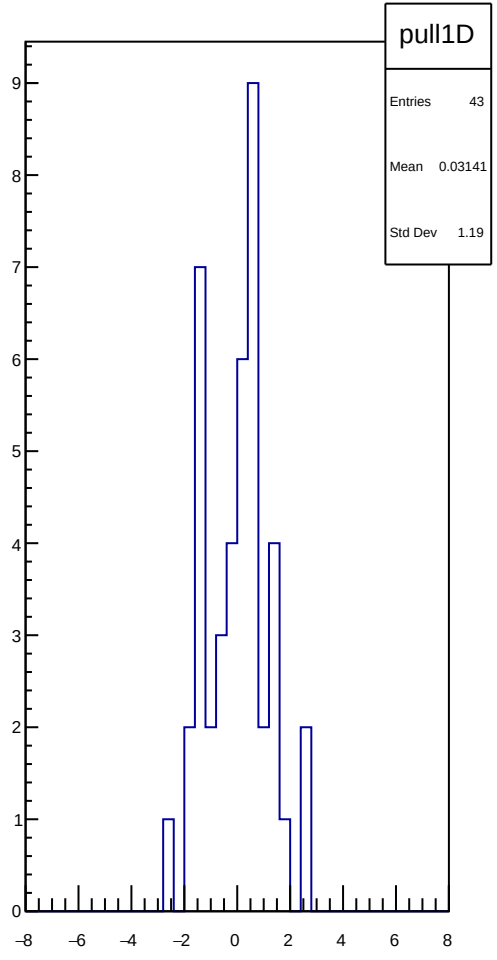

pull1D
Entries 43
Mean −0.005174
Std Dev 1.043

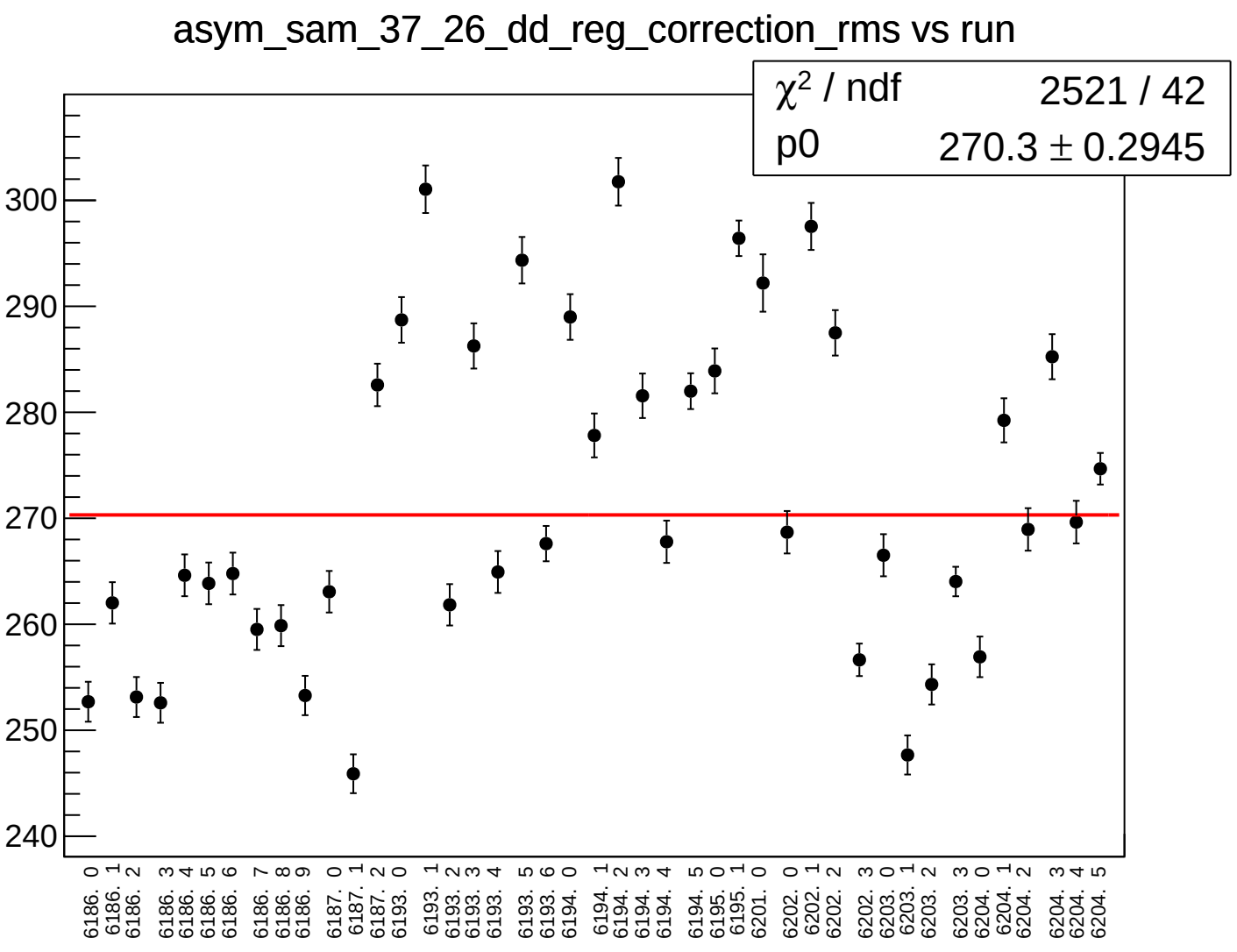

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.862e+05 / 42
p0 4.262e−11 ± 5.249e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

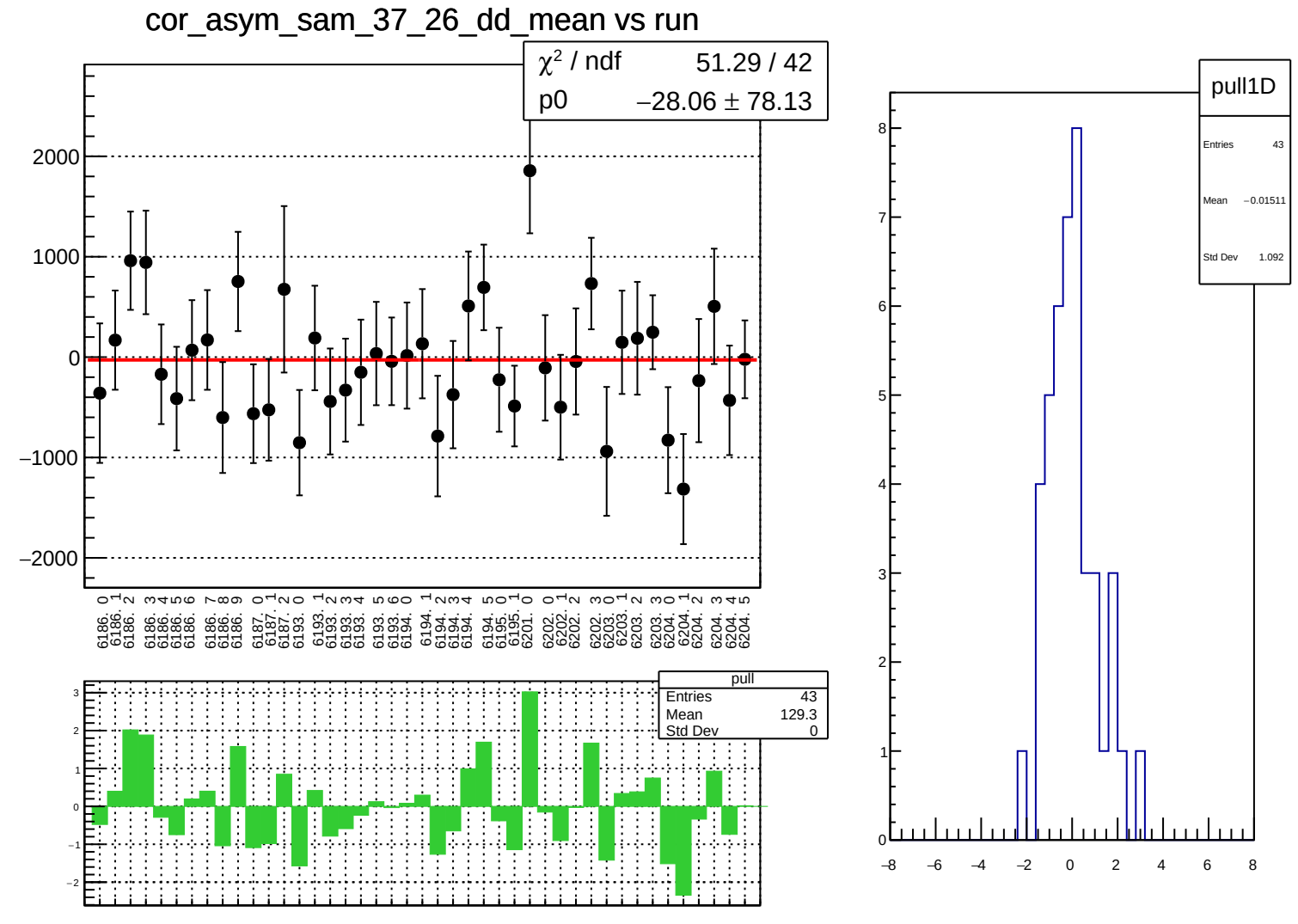

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 51.3 / 42
p0 −28.05 ± 78.13
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 129.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01509
Std Dev 1.092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

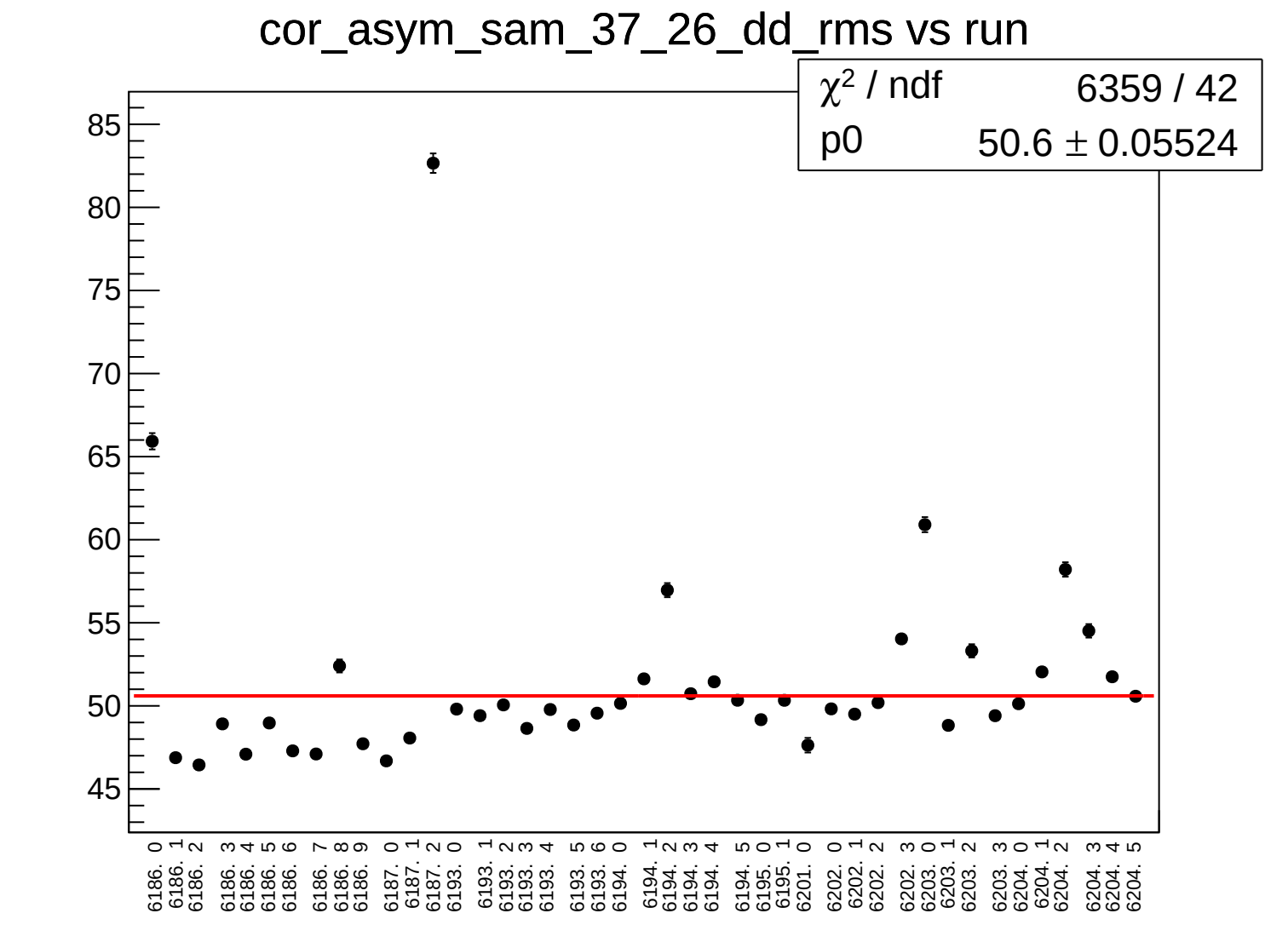

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 6359 / 42
p0 50.6 ± 0.05524
85
80
75
70
65
60
55
50
45
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

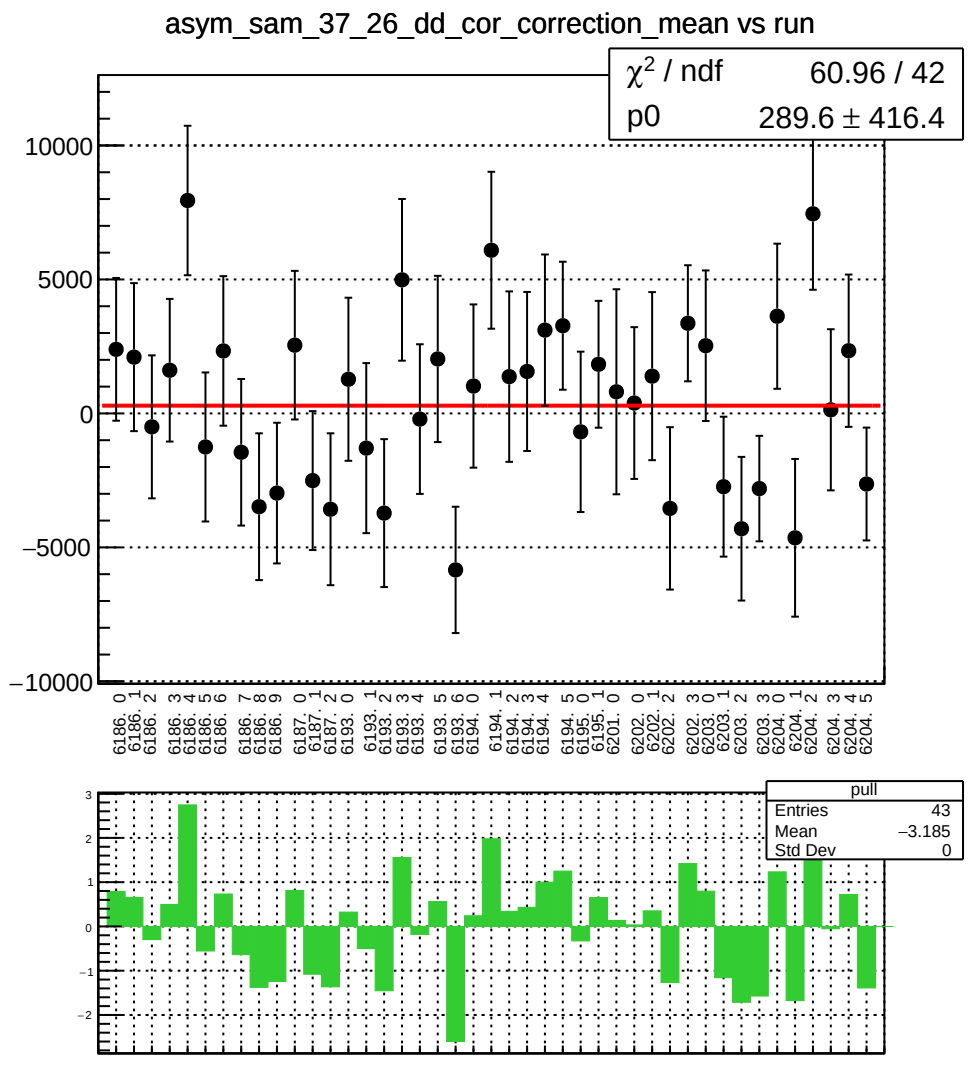

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 60.96 / 42
p0 289.6 ± 416.4
10000
5000
0
−5000
−10000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3.182
Std Dev 0
3
2
1
0
−1
−2

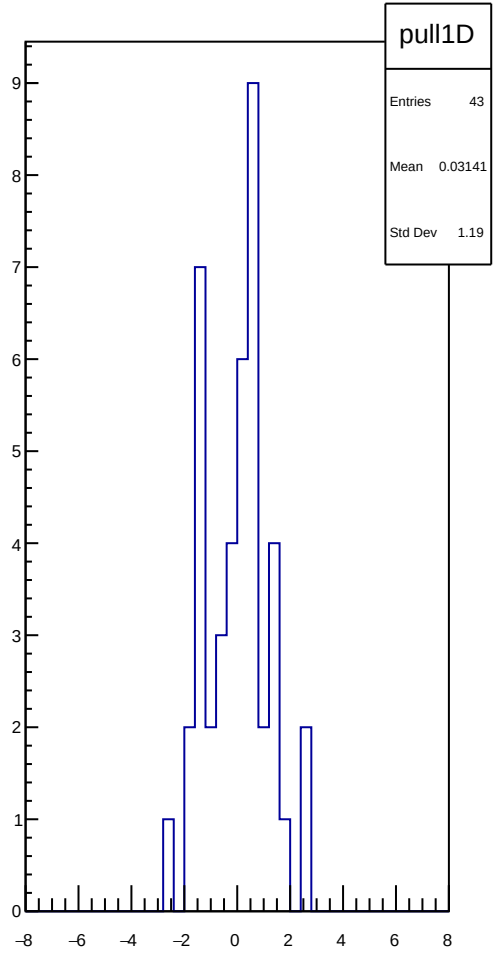

pull1D
Entries 43
Mean 0.03141
Std Dev 1.19
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

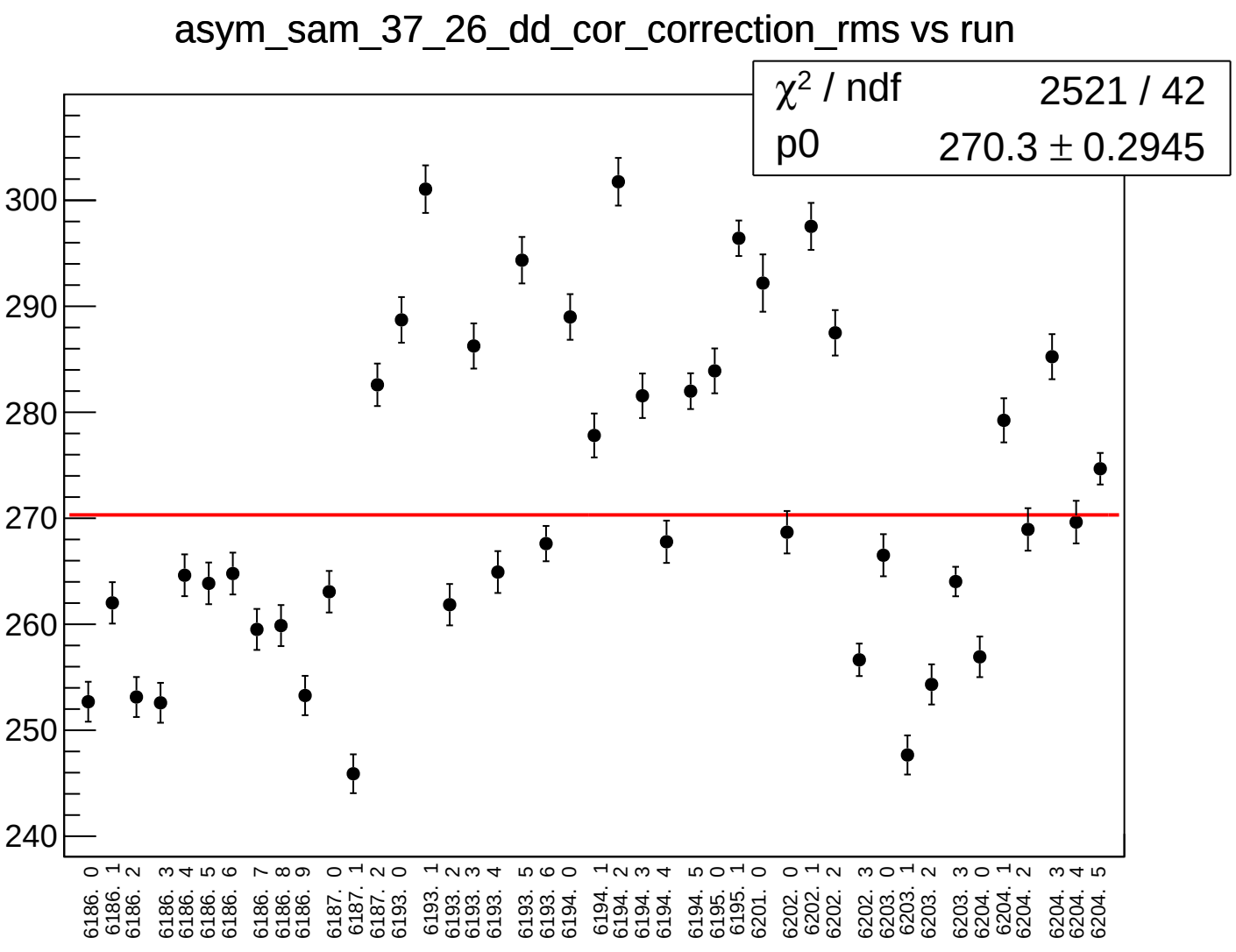

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 2521 / 42
p0 270.3 ± 0.2945
300
290
280
270
260
250
240
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

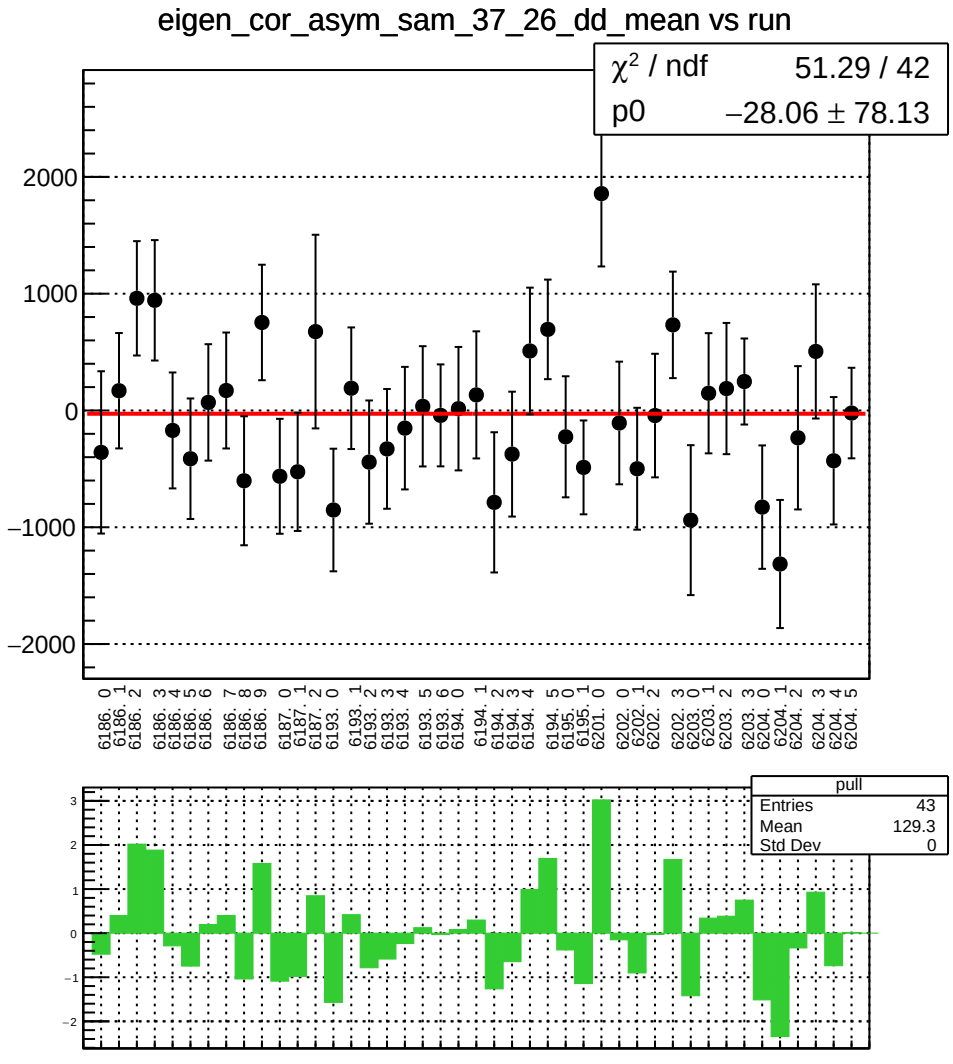

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 51.29 / 42
p0 −28.06 ± 78.13
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 129.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01511
Std Dev 1.092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

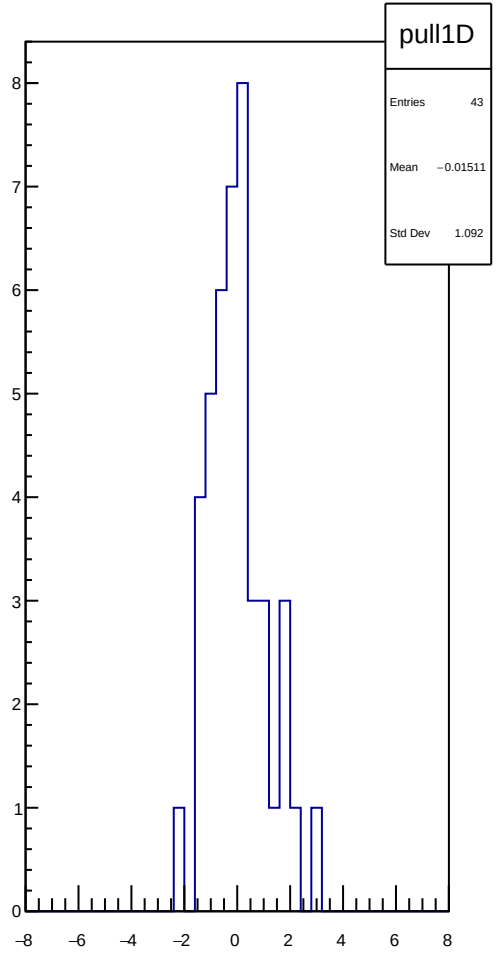

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 6359 / 42
p0 50.6 ± 0.05524
85
80
75
70
65
60
55
50
45
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

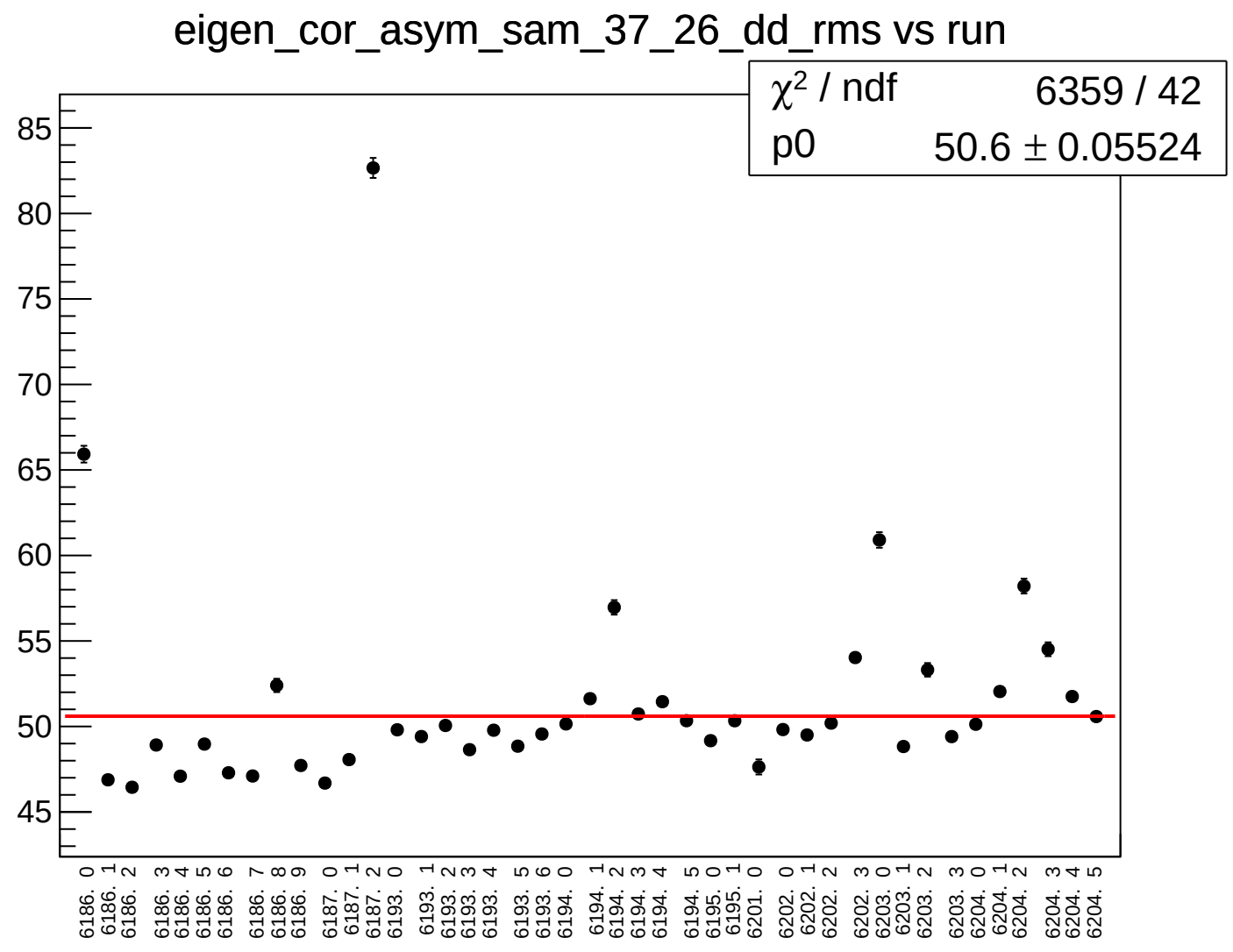

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 60.96 / 42
p0 289.6 ± 416.4
10000
5000
0
−5000
−10000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3.185
Std Dev 0
3
2
1
0
−1
−2

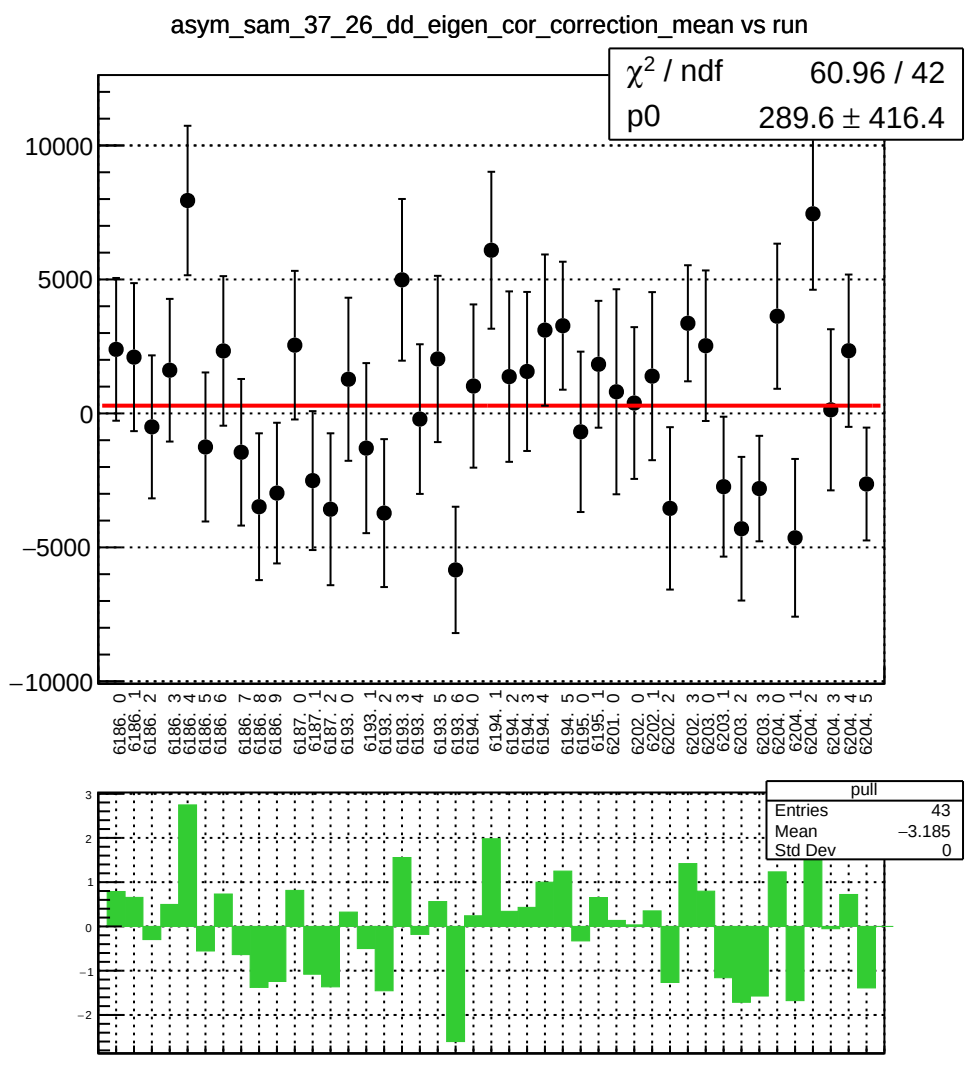

pull1D
Entries 43
Mean 0.03141
Std Dev 1.19
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

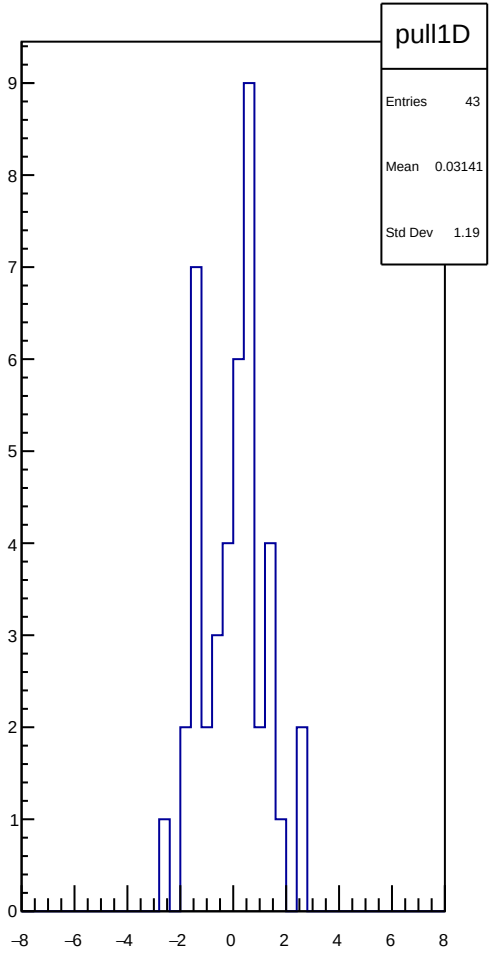

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 2521 / 42
p0 270.3 ± 0.2945
300
290
280
270
260
250
240
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

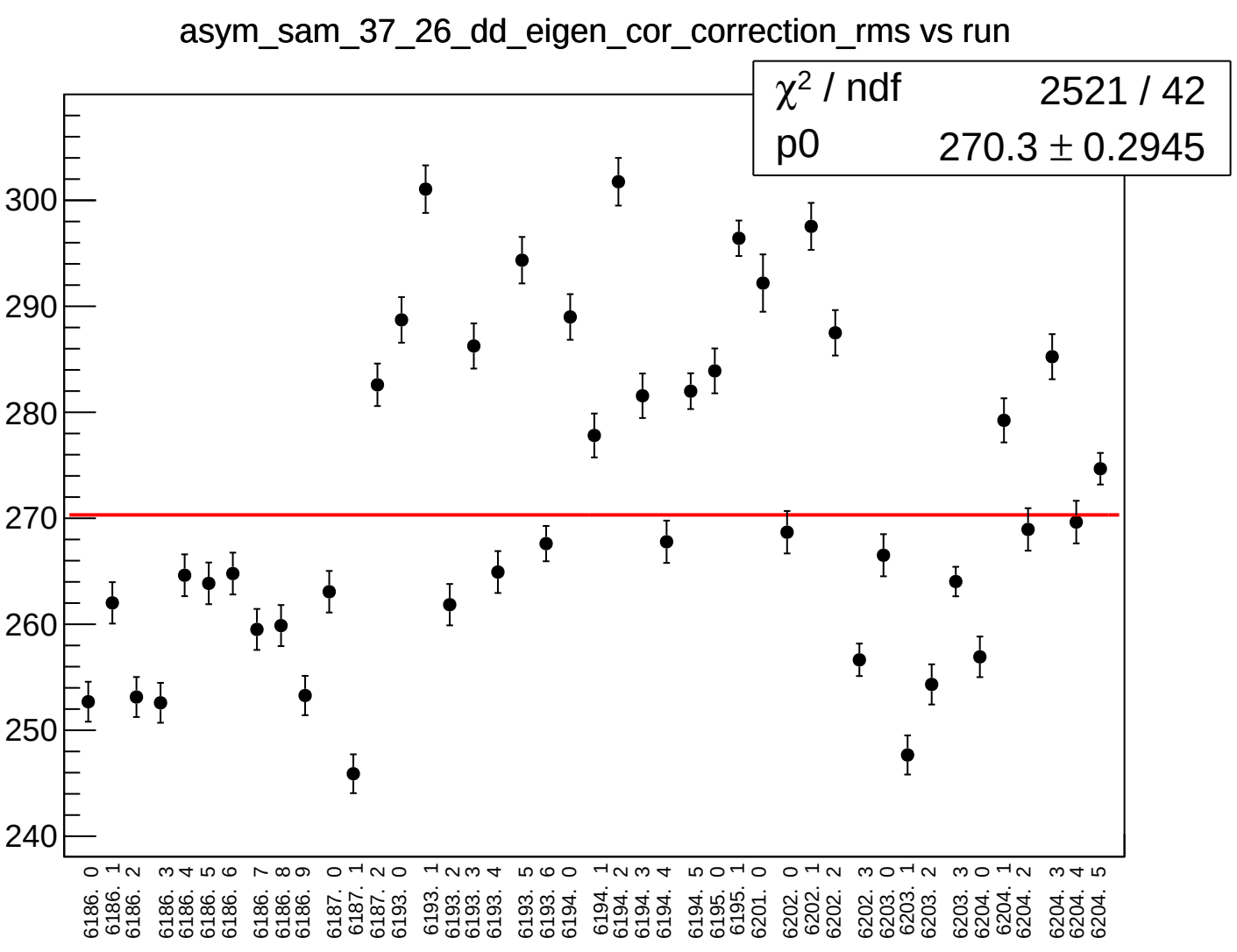

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 51.29 / 42
p0 −28.06 ± 78.13
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 129.3
Std Dev 0
3
2
1
0
−1
−2

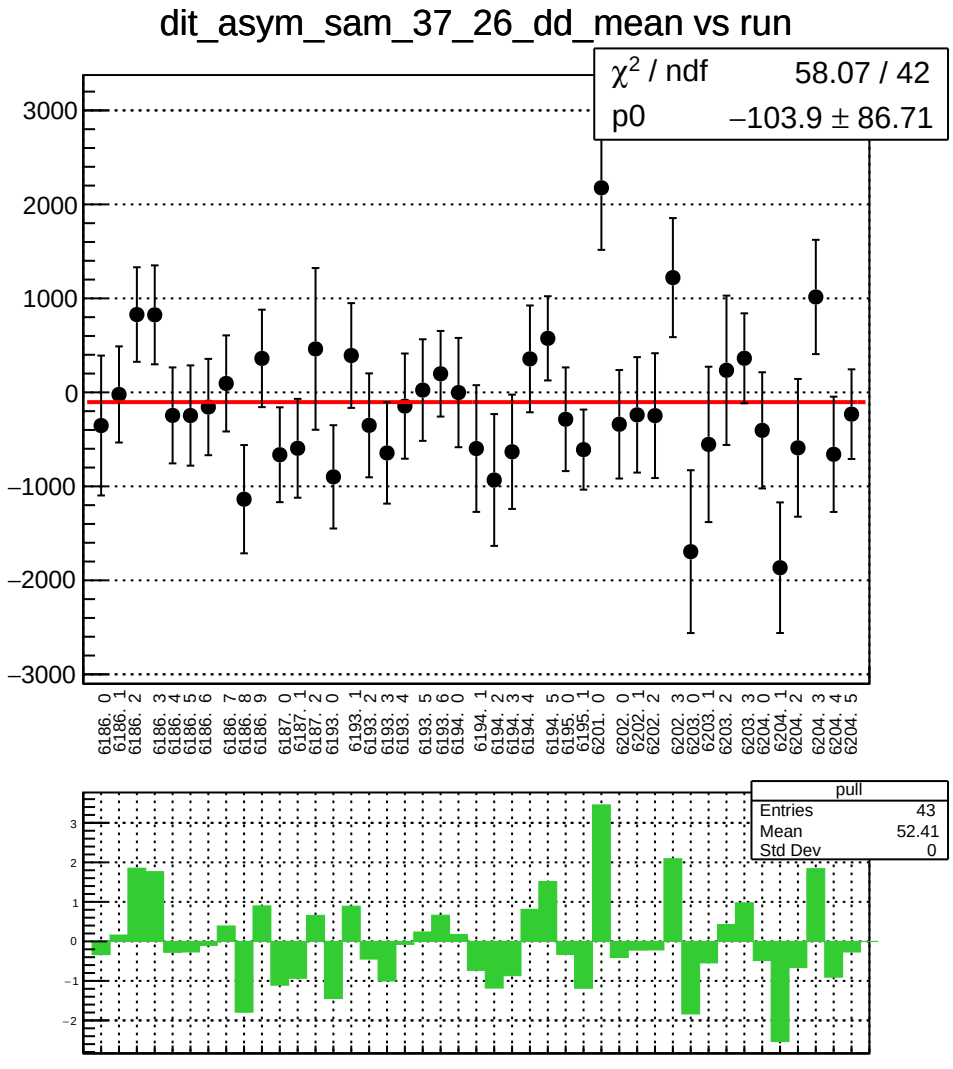

pull1D
Entries 43
Mean −0.01511
Std Dev 1.092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

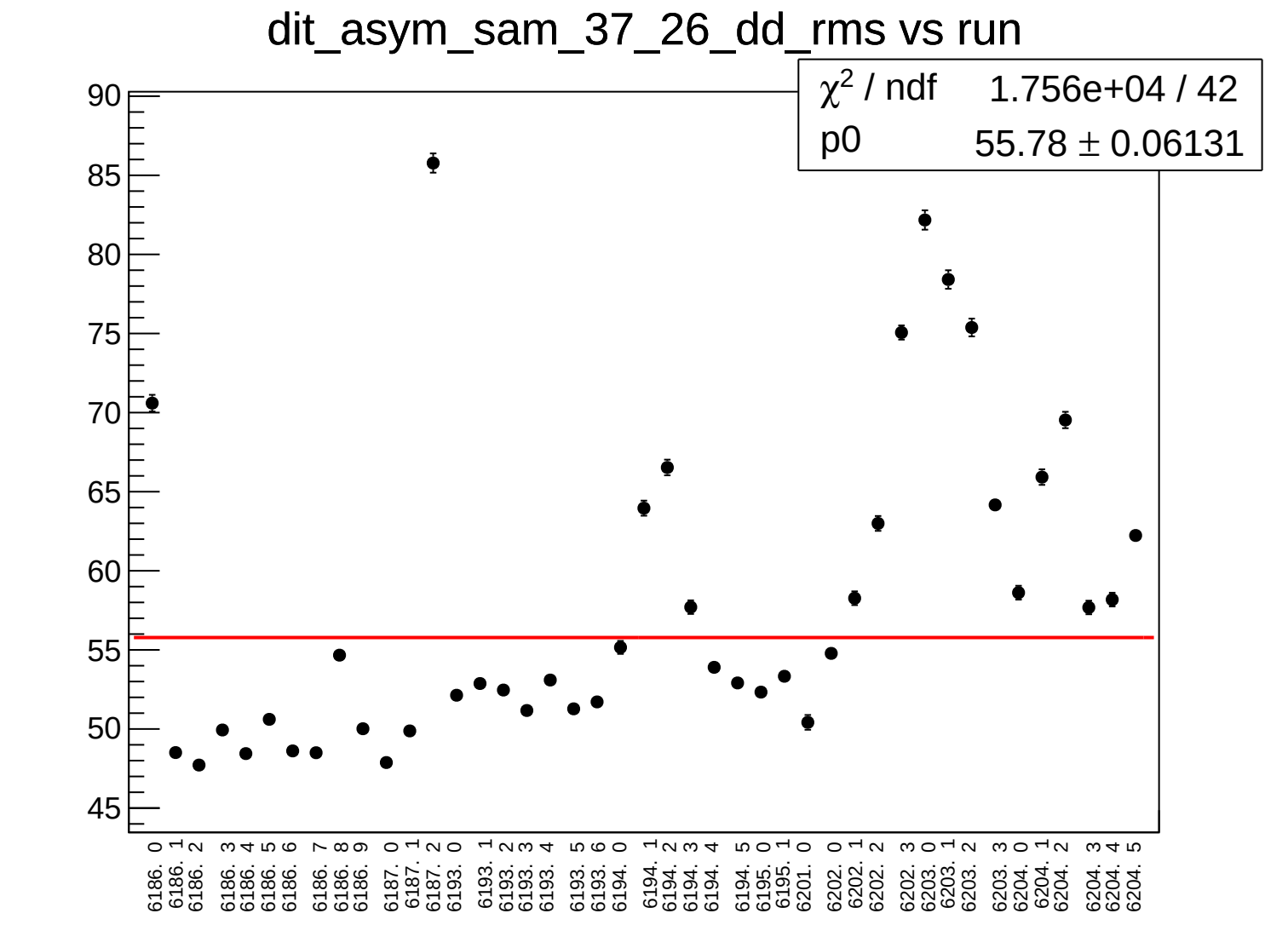

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 6359 / 42
p0 50.6 ± 0.05524
85
80
75
70
65
60
55
50
45
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

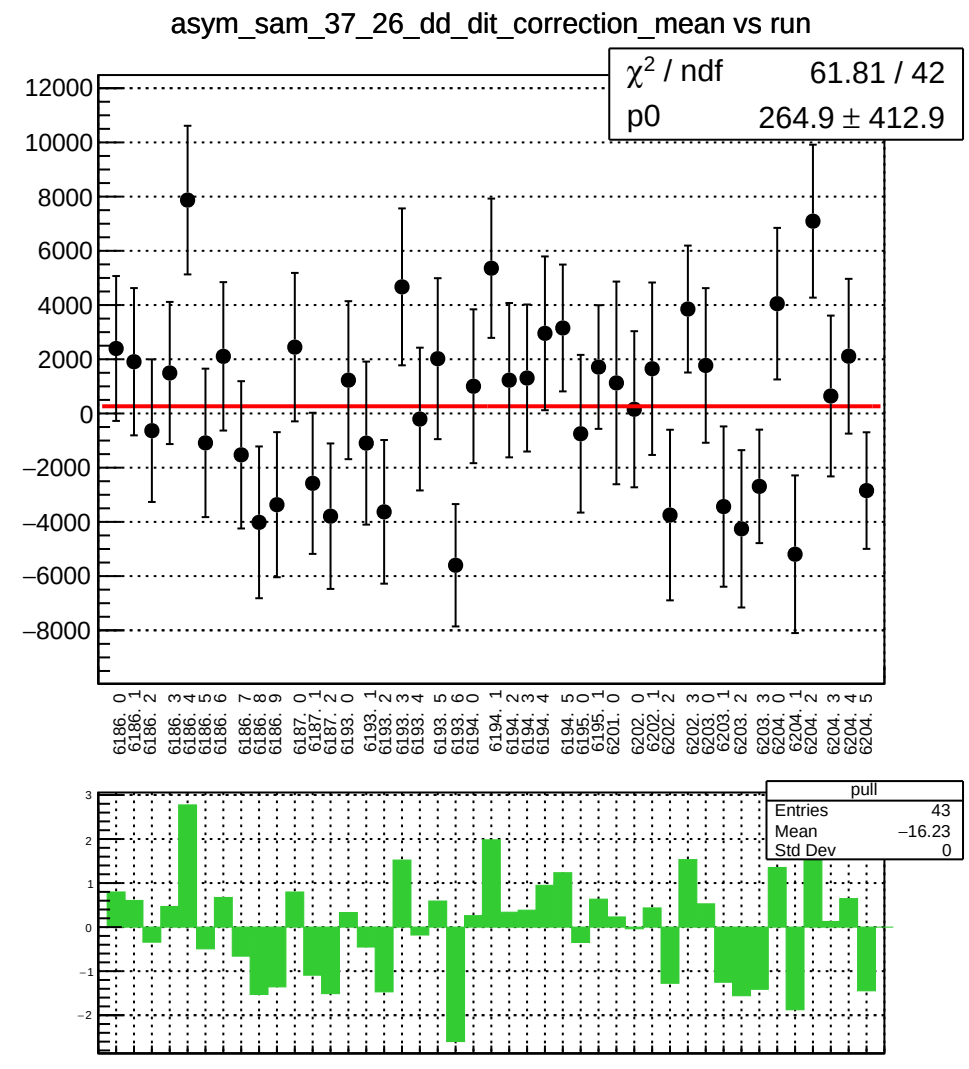

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 60.96 / 42
p0 289.6 ± 416.4
10000
5000
0
−5000
−10000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −3.185
Std Dev 0
3
2
1
0
−1
−2

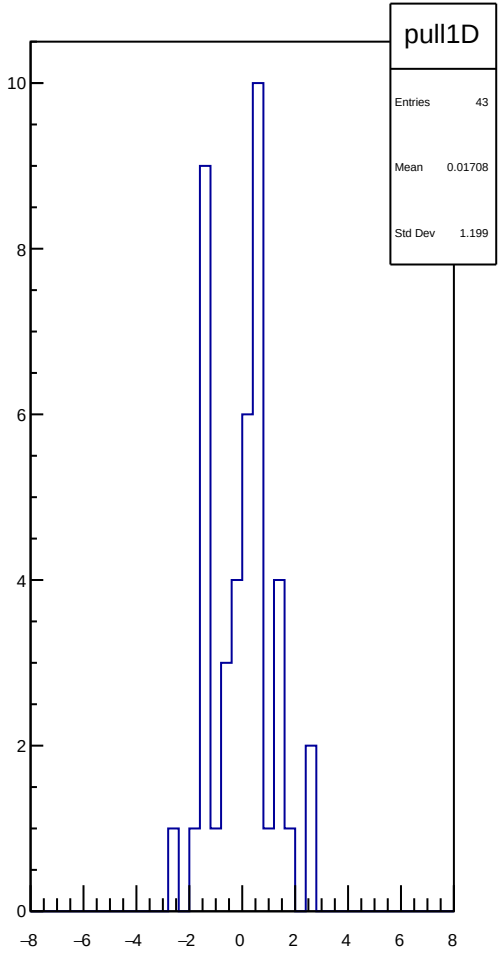

pull1D
Entries 43
Mean 0.03141
Std Dev 1.19
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

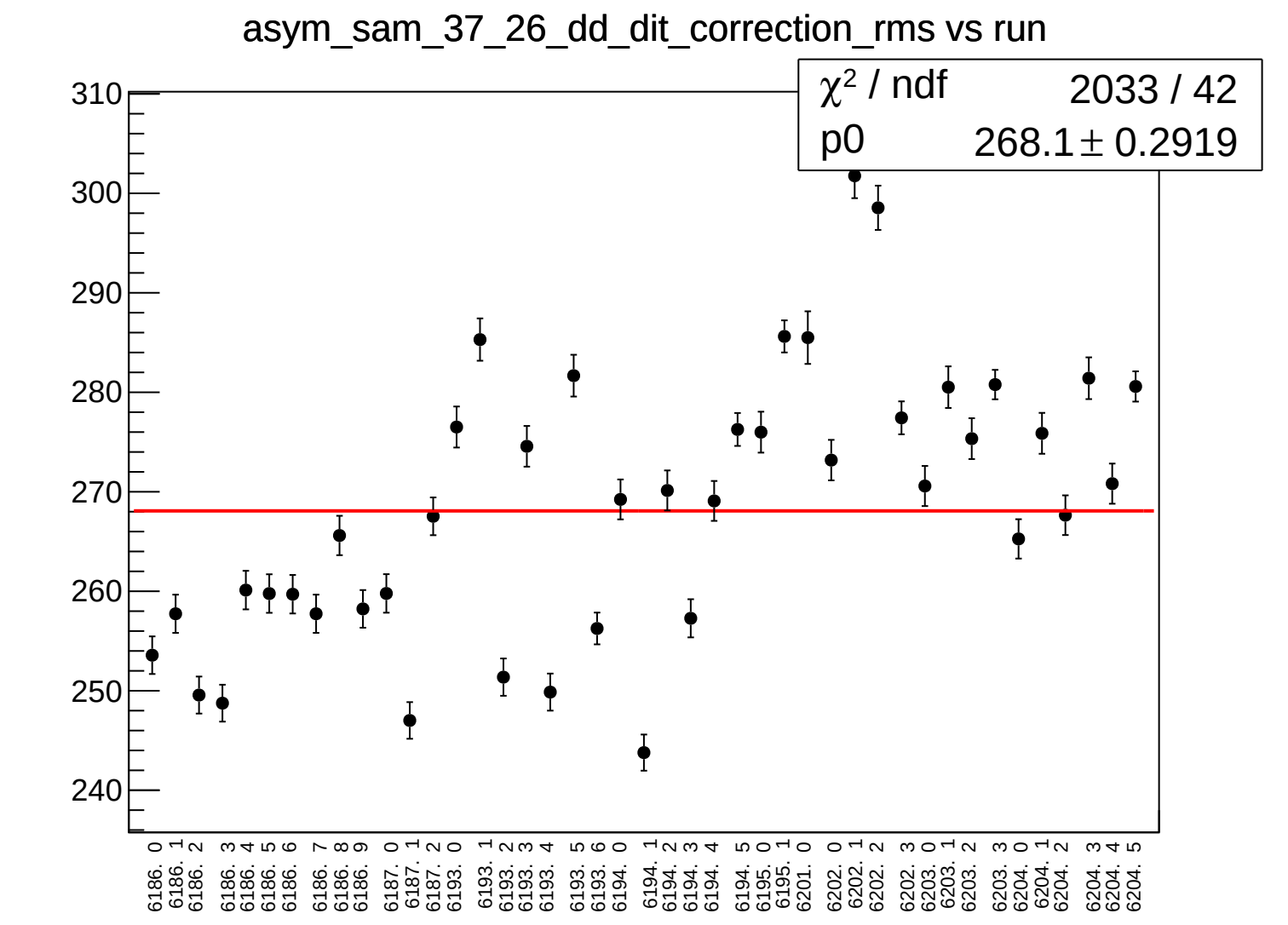

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2521 / 42
p0 270.3 ± 0.2945
300
290
280
270
260
250
240
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

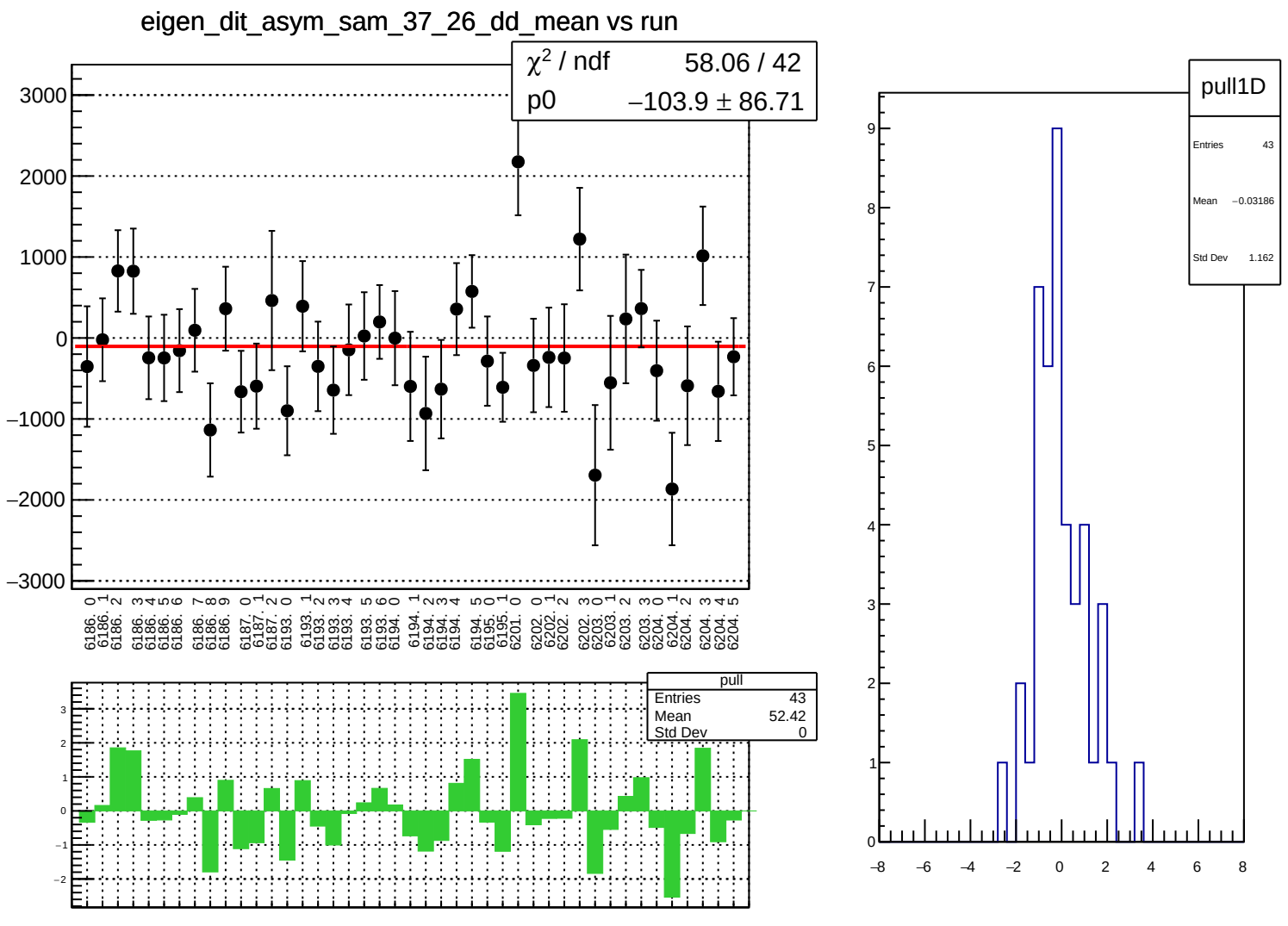

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 58.07 / 42
p0 −103.9 ± 86.71
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 52.41
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03185
Std Dev 1.162
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

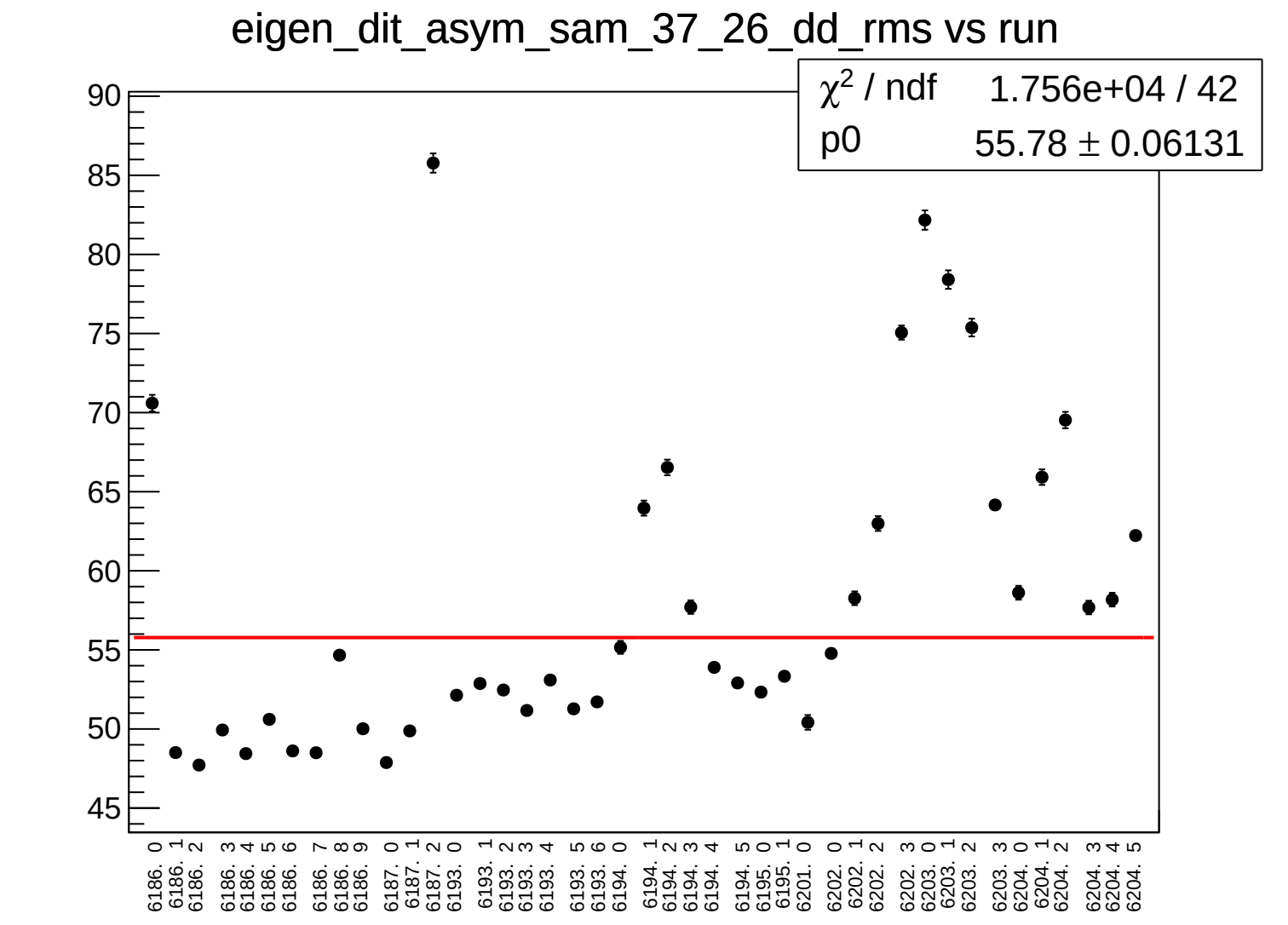

dit_asym_sam_37_26_dd_rms vs run
χ2 / ndf 1.756e+04 / 42
p0 55.78 ± 0.06131
90
85
80
75
70
65
60
55
50
45
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

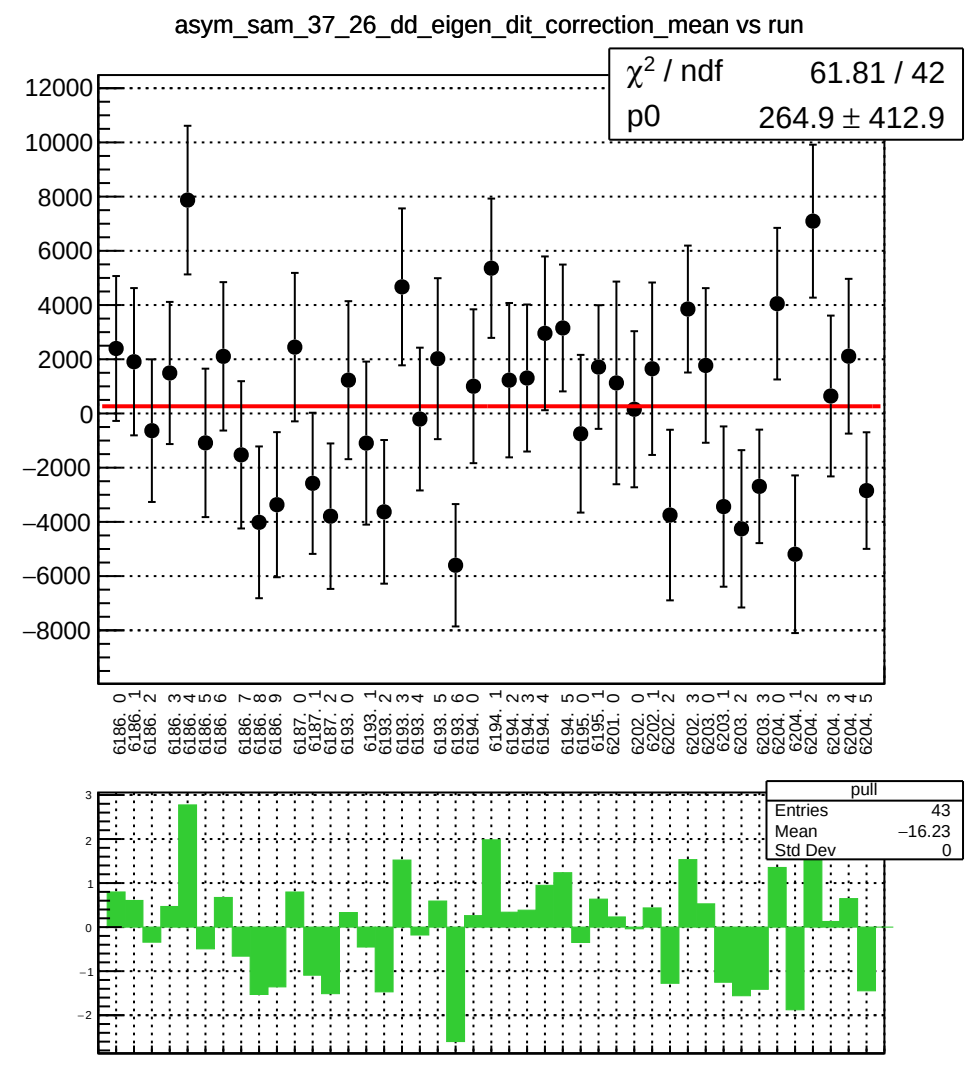

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 61.81 / 42
p0 264.9 ± 412.9
pull
Entries 43
Mean −16.23
Std Dev 0

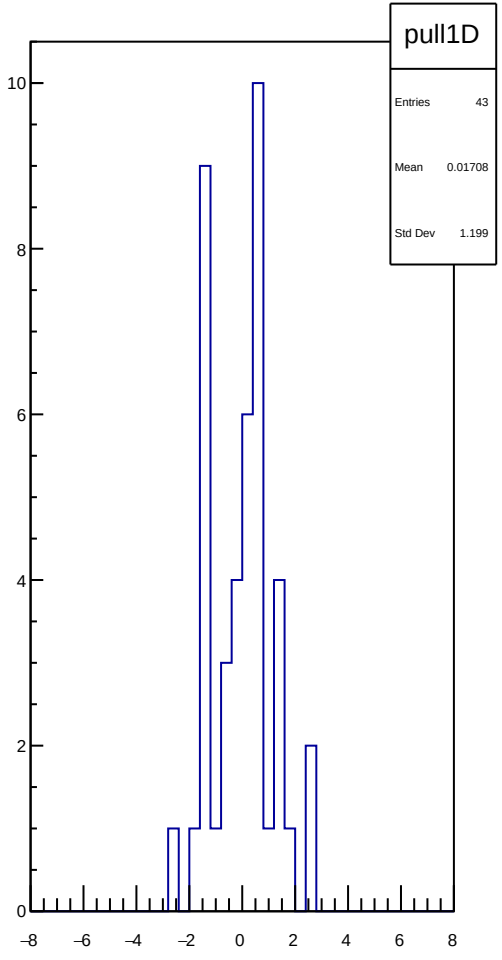

pull1D
Entries 43
Mean 0.01708
Std Dev 1.199

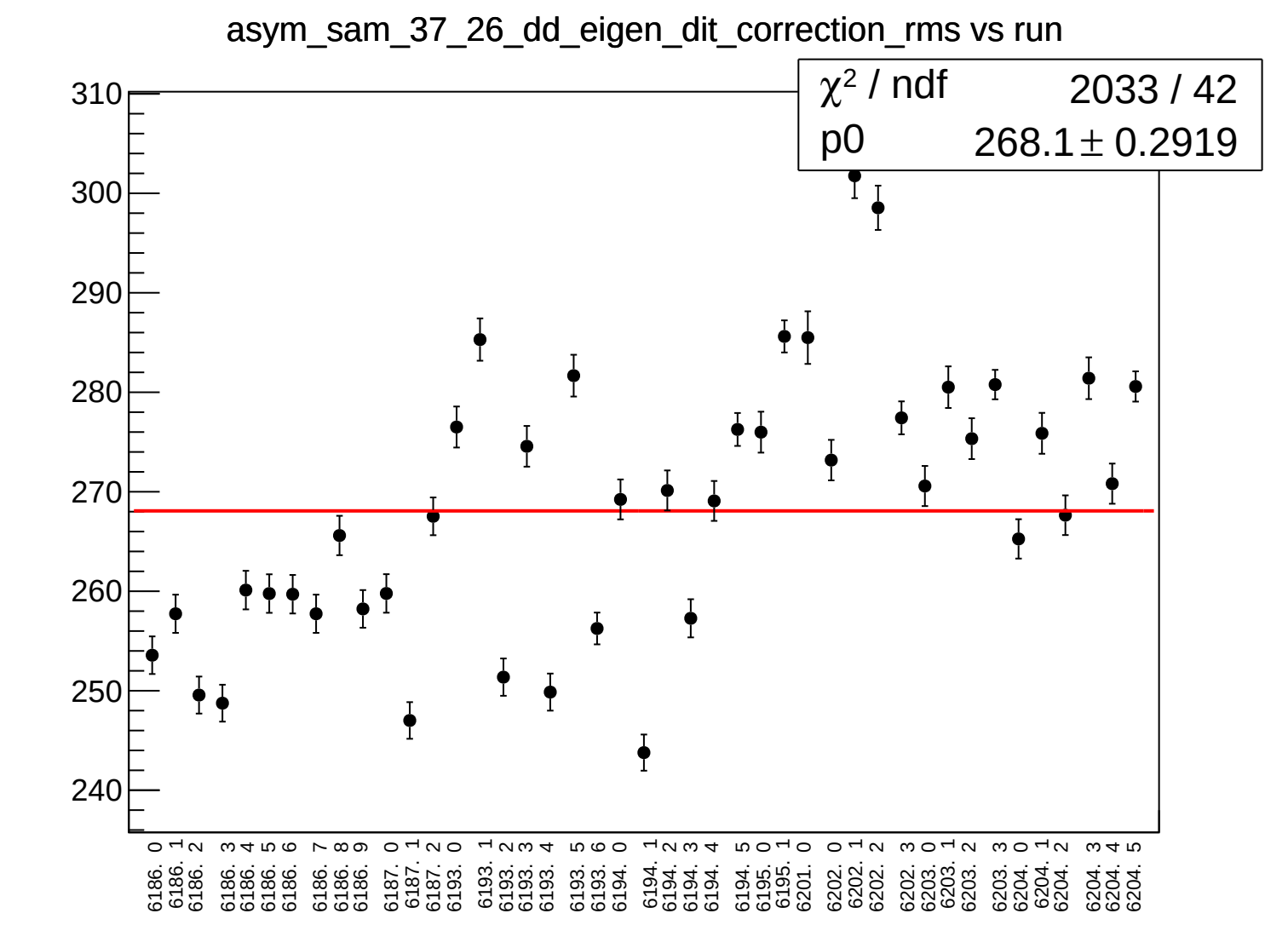

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 2033 / 42
p0 268.1 ± 0.2919
310
300
290
280
270
260
250
240
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

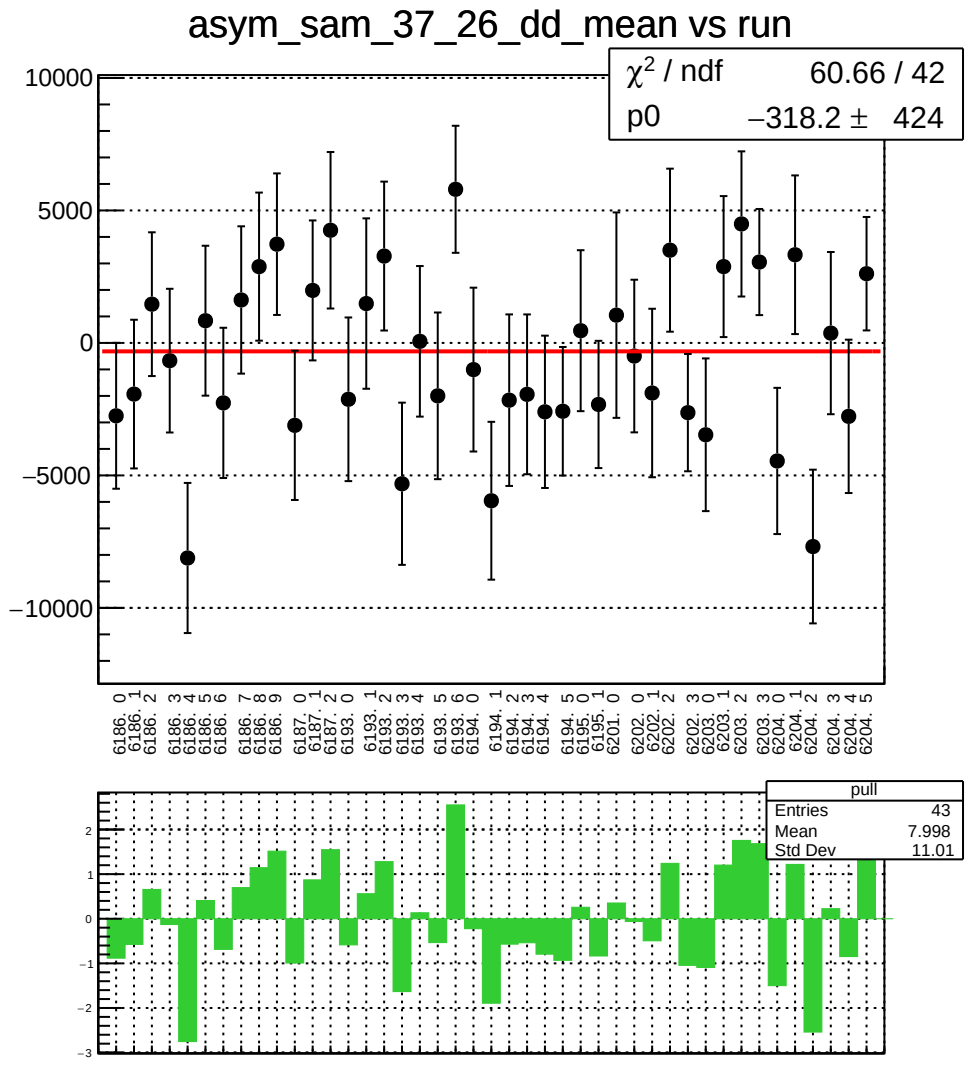

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 58.06 / 42
p0 −103.9 ± 86.71
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 52.42
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03186
Std Dev 1.162
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

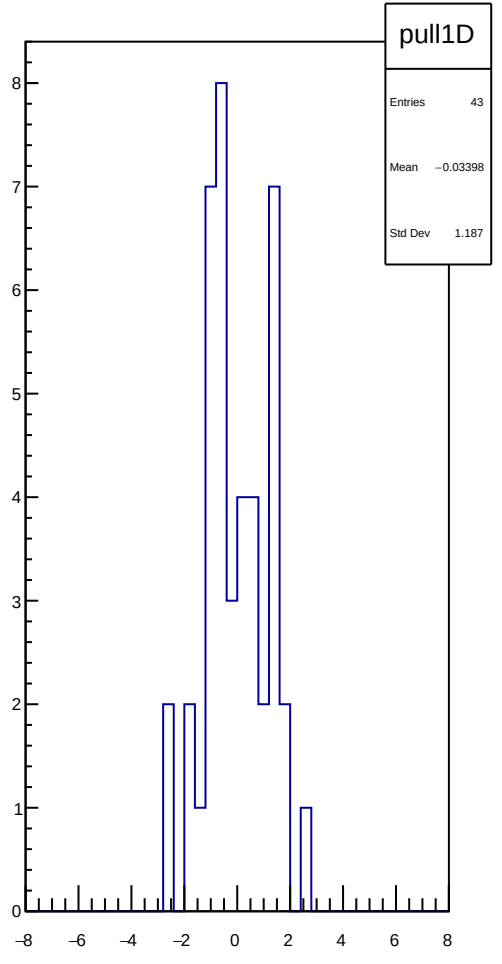

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.756e+04 / 42
p0 55.78 ± 0.06131
90
85
80
75
70
65
60
55
50
45
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

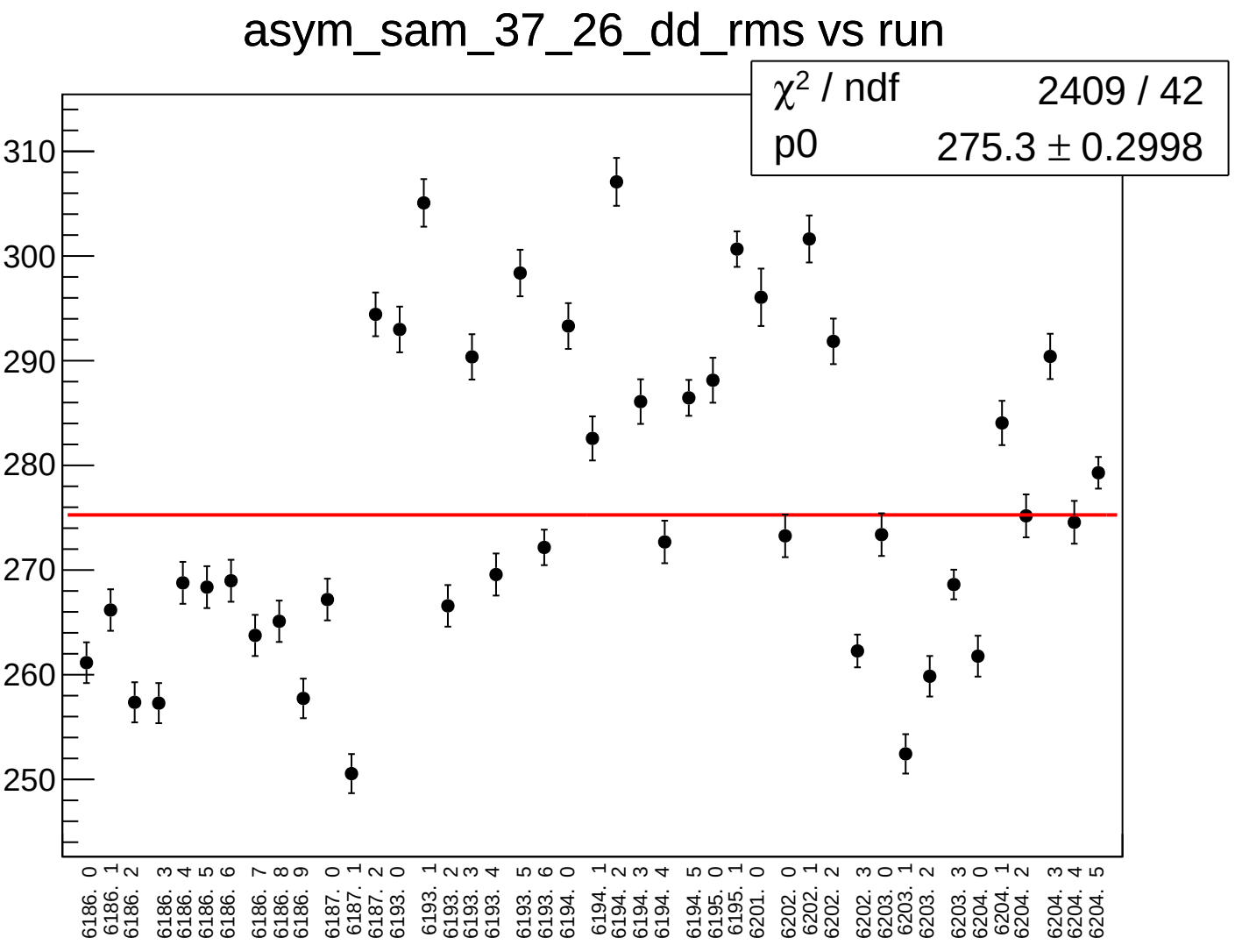

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 61.81 / 42
p0 264.9 ± 412.9
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −16.23
Std Dev 0
3
2
1
0
−1
−2

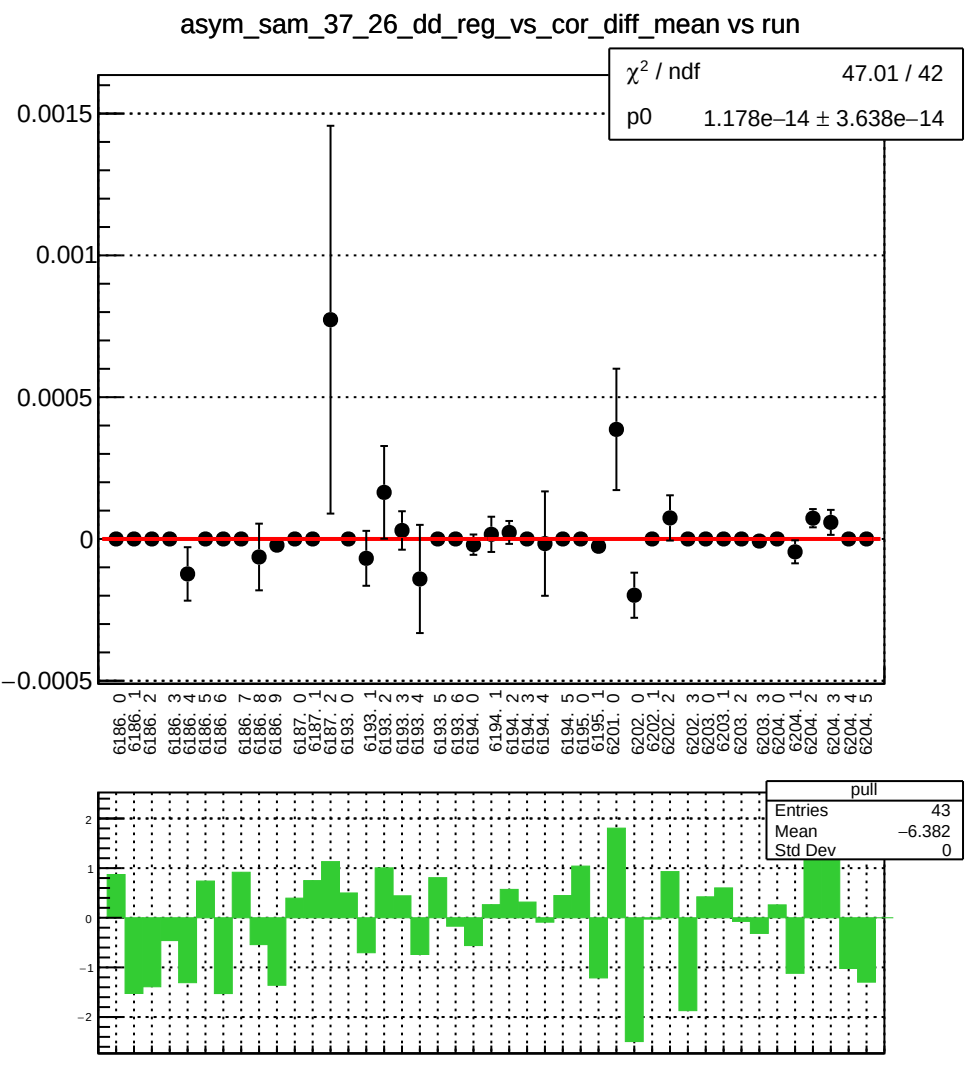

pull1D
Entries 43
Mean 0.01708
Std Dev 1.199
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

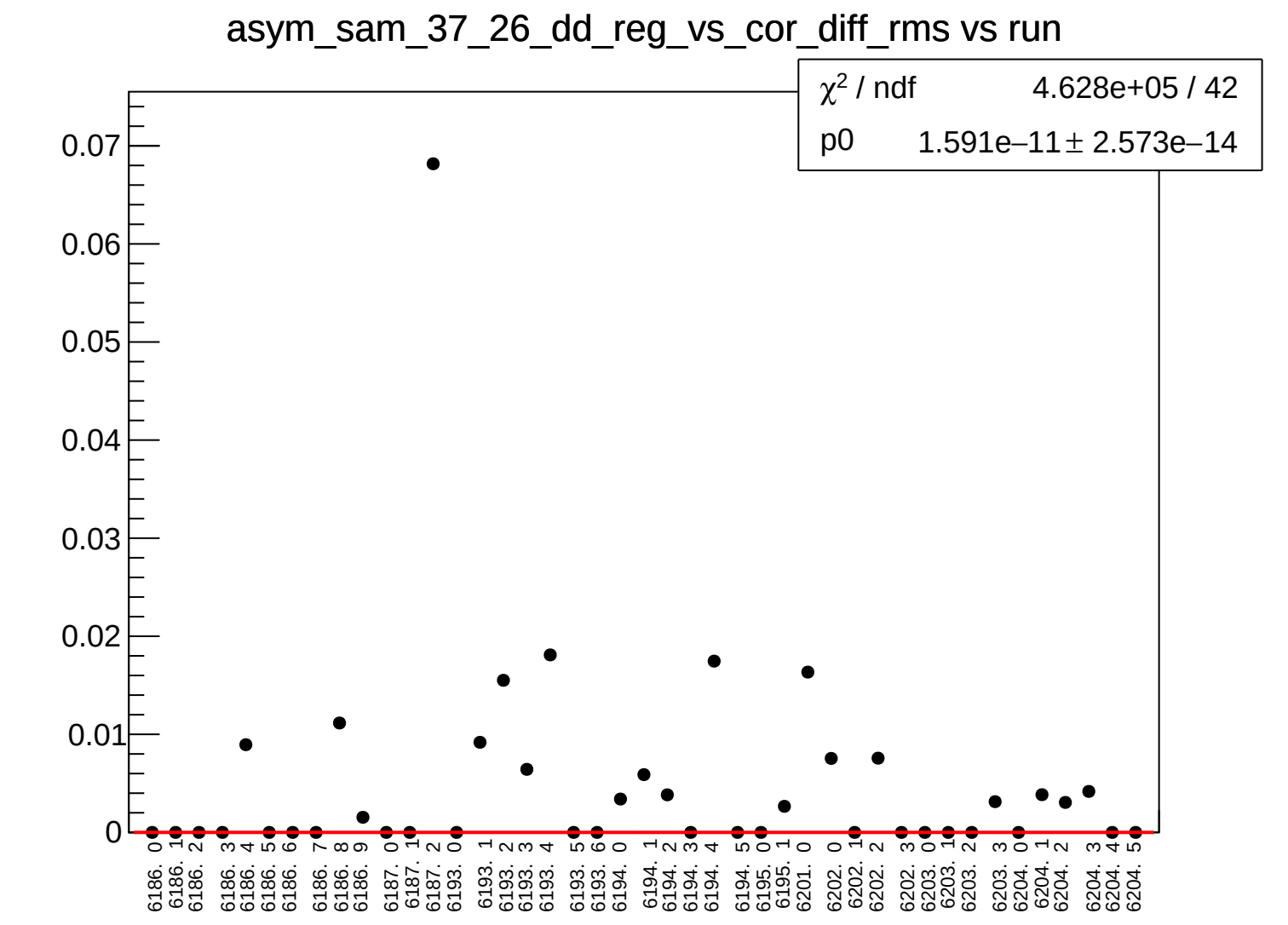

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2033 / 42
p0 268.1 ± 0.2919
310
300
290
280
270
260
250
240
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

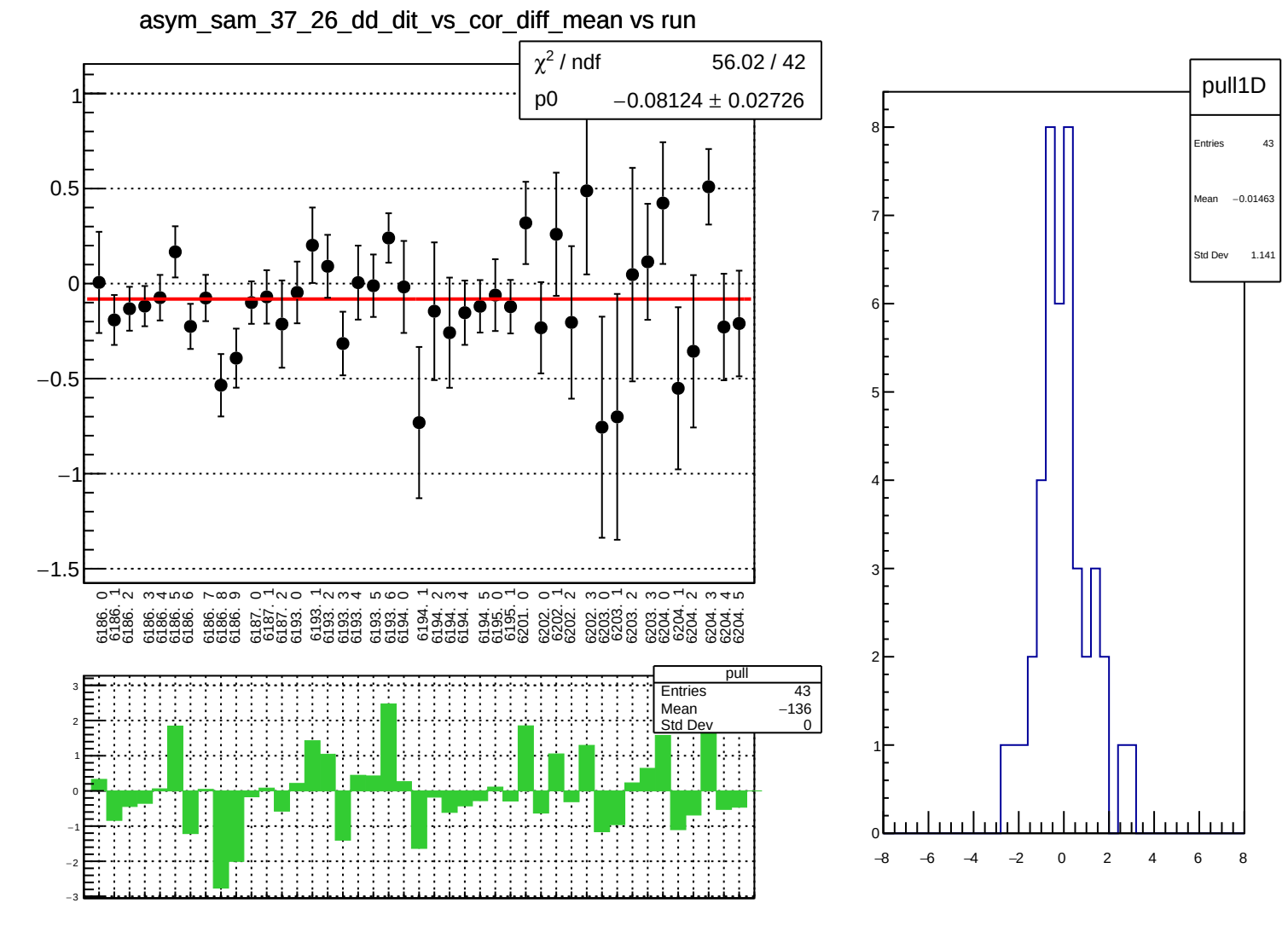

asym_sam_37_26_dd_mean vs run
χ² / ndf 60.66 / 42
p0 −318.2 ± 424
10000
5000
0
−5000
−10000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 7.998
Std Dev 11.01
2
1
0
−1
−2
−3

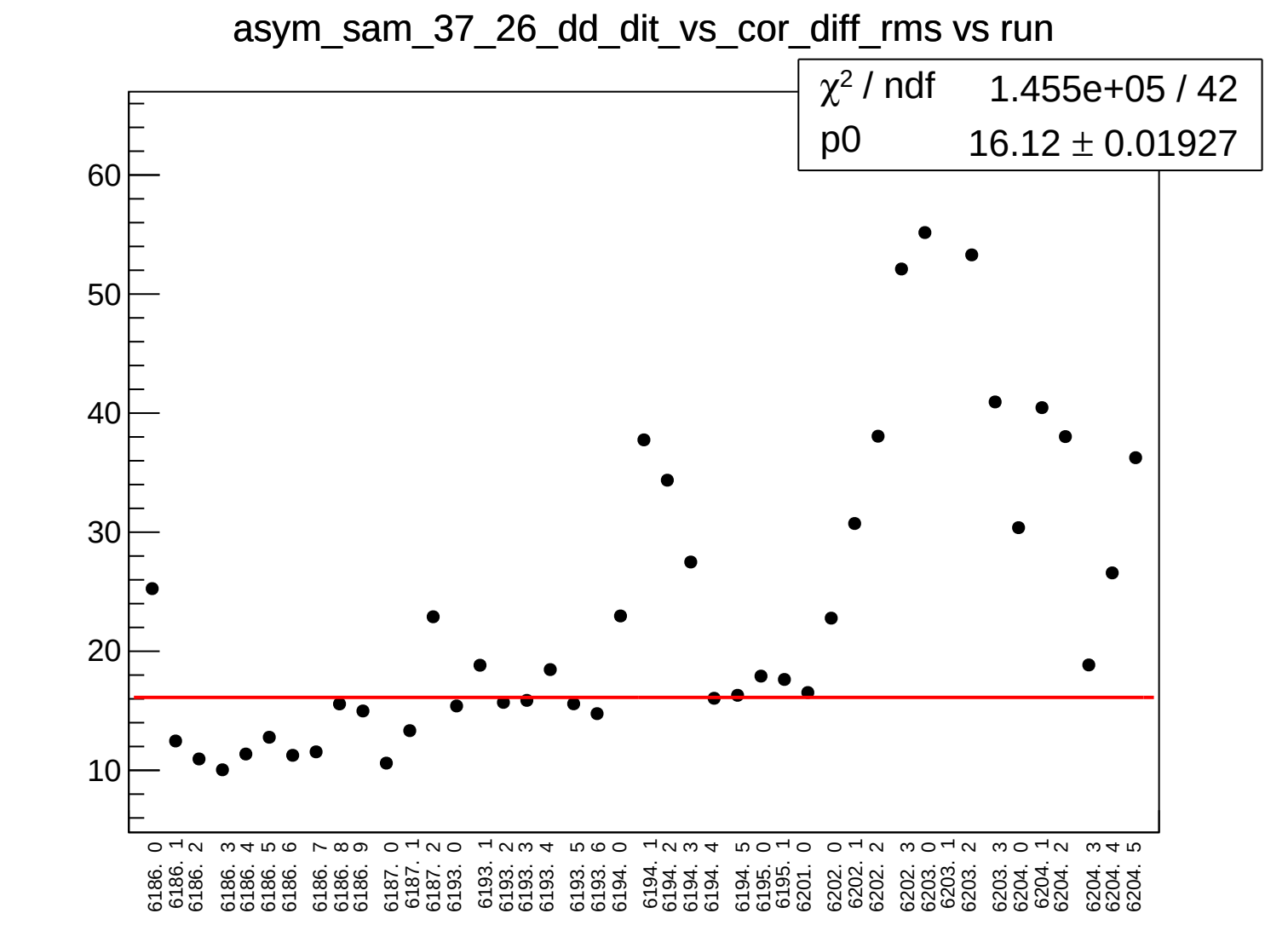

pull1D
Entries 43
Mean −0.03398
Std Dev 1.187
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

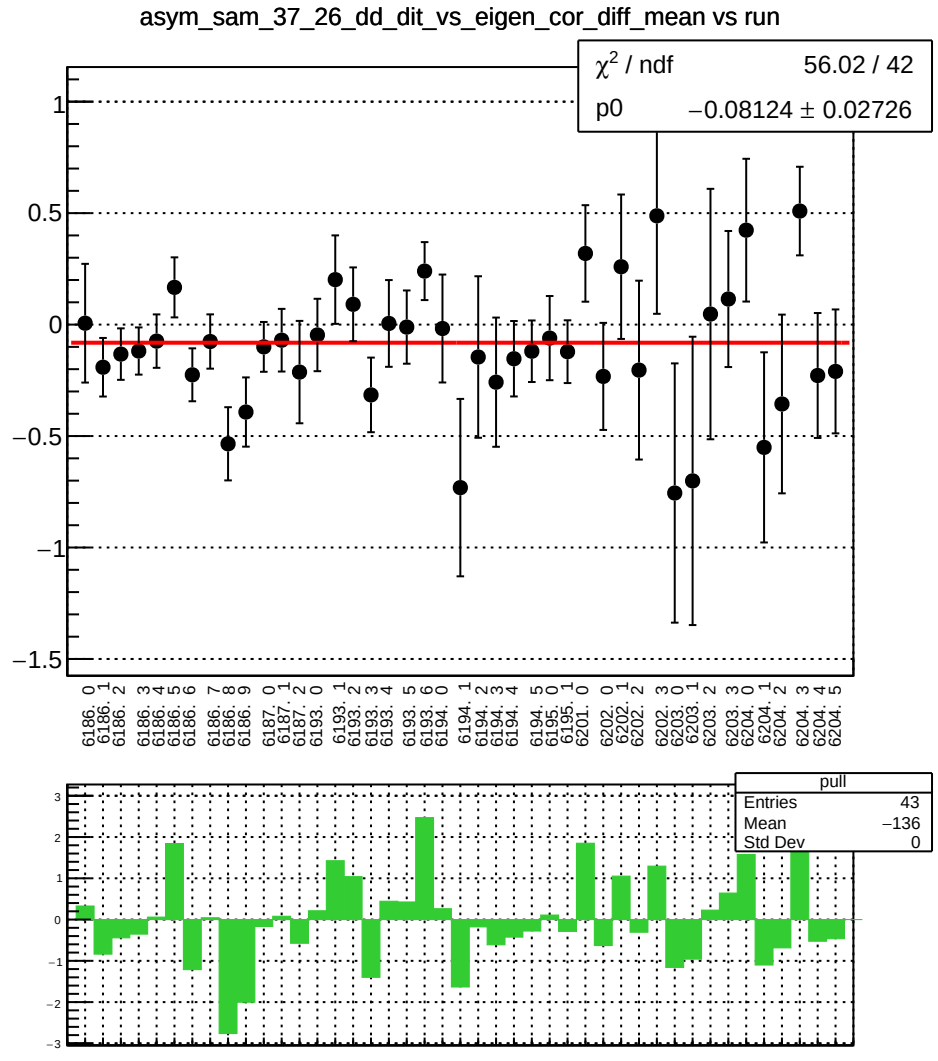

asym_sam_37_26_dd_rms vs run
χ² / ndf 2409 / 42
p0 275.3 ± 0.2998
310
300
290
280
270
260
250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

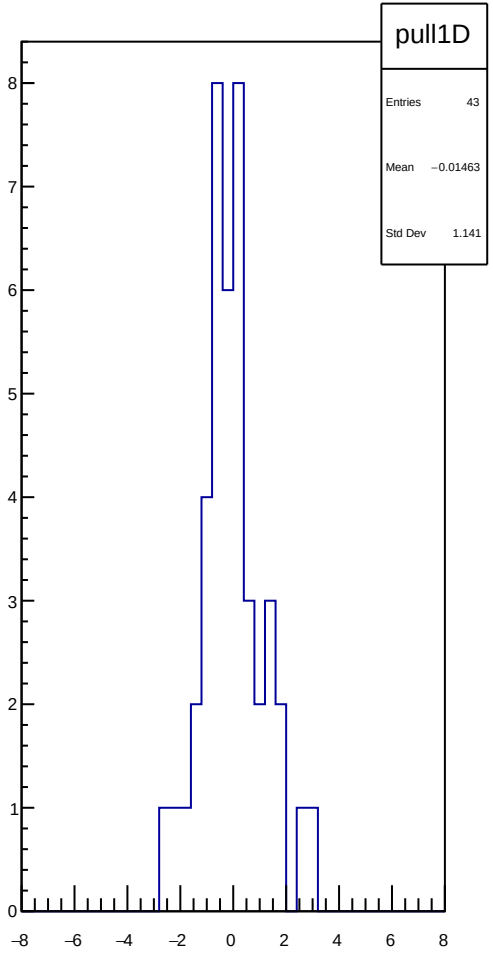

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 47.01 / 42
p0 1.178e−14 ± 3.638e−14
0.0015
0.001
0.0005
0
−0.0005
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −6.382
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0462
Std Dev 1.045
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

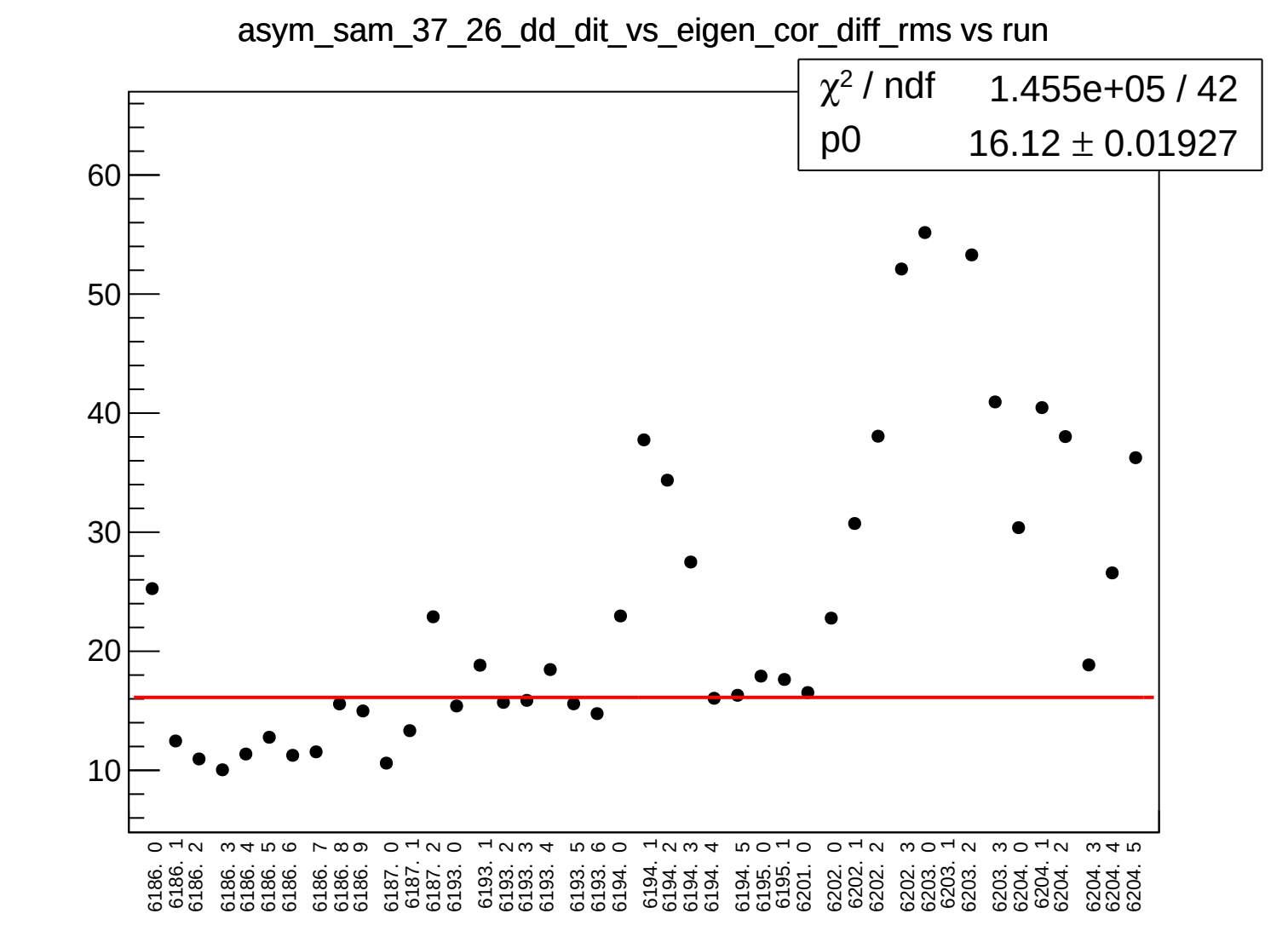

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.628e+05 / 42
p0 1.591e−11 ± 2.573e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

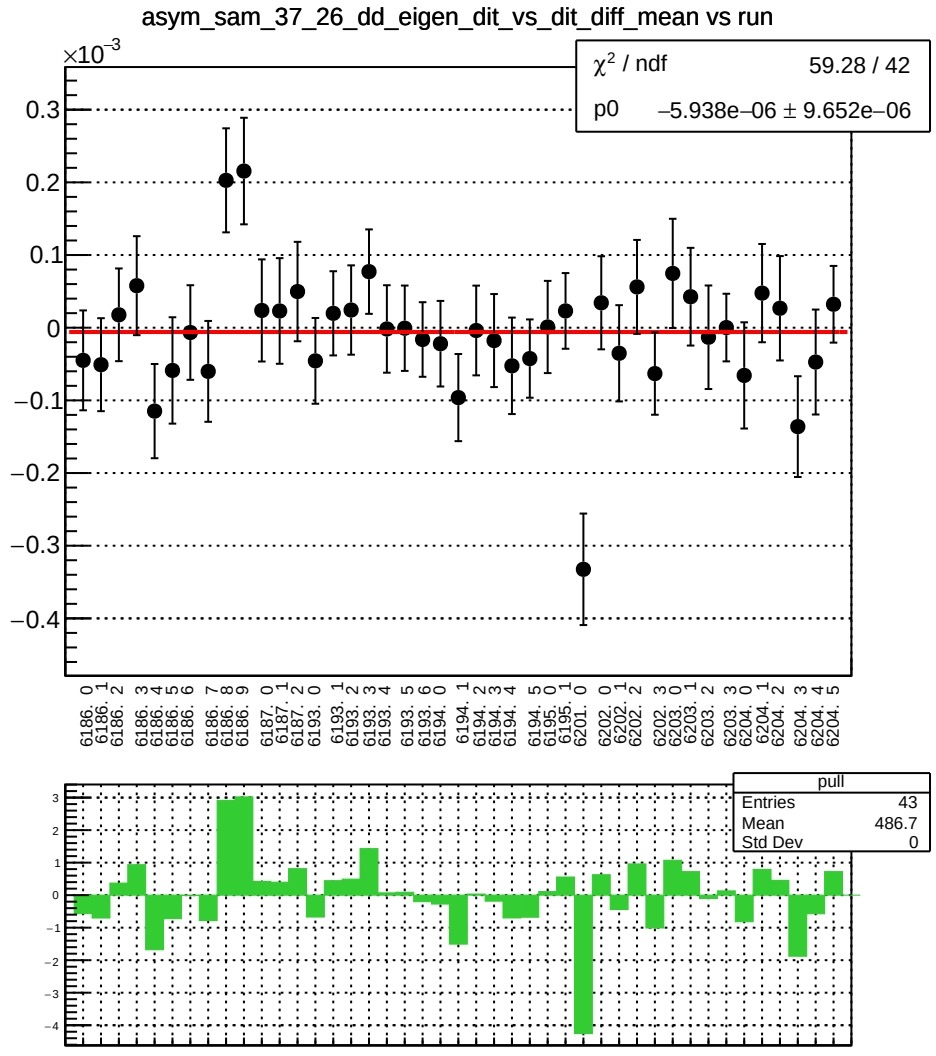

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 56.02 / 42
p0 −0.08124 ± 0.02726
pull
Entries 43
Mean −136
Std Dev 0
pull1D
Entries 43
Mean −0.01463
Std Dev 1.141

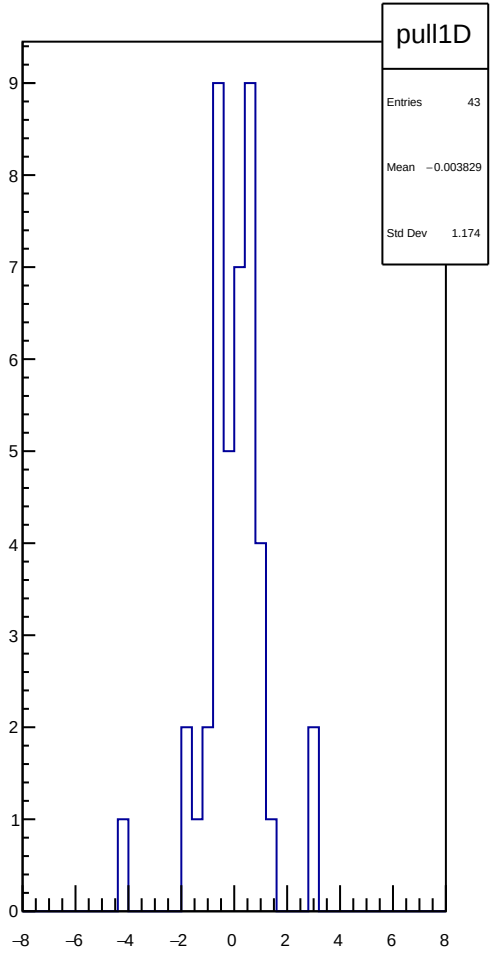

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.455e+05 / 42
p0 16.12 ± 0.01927
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

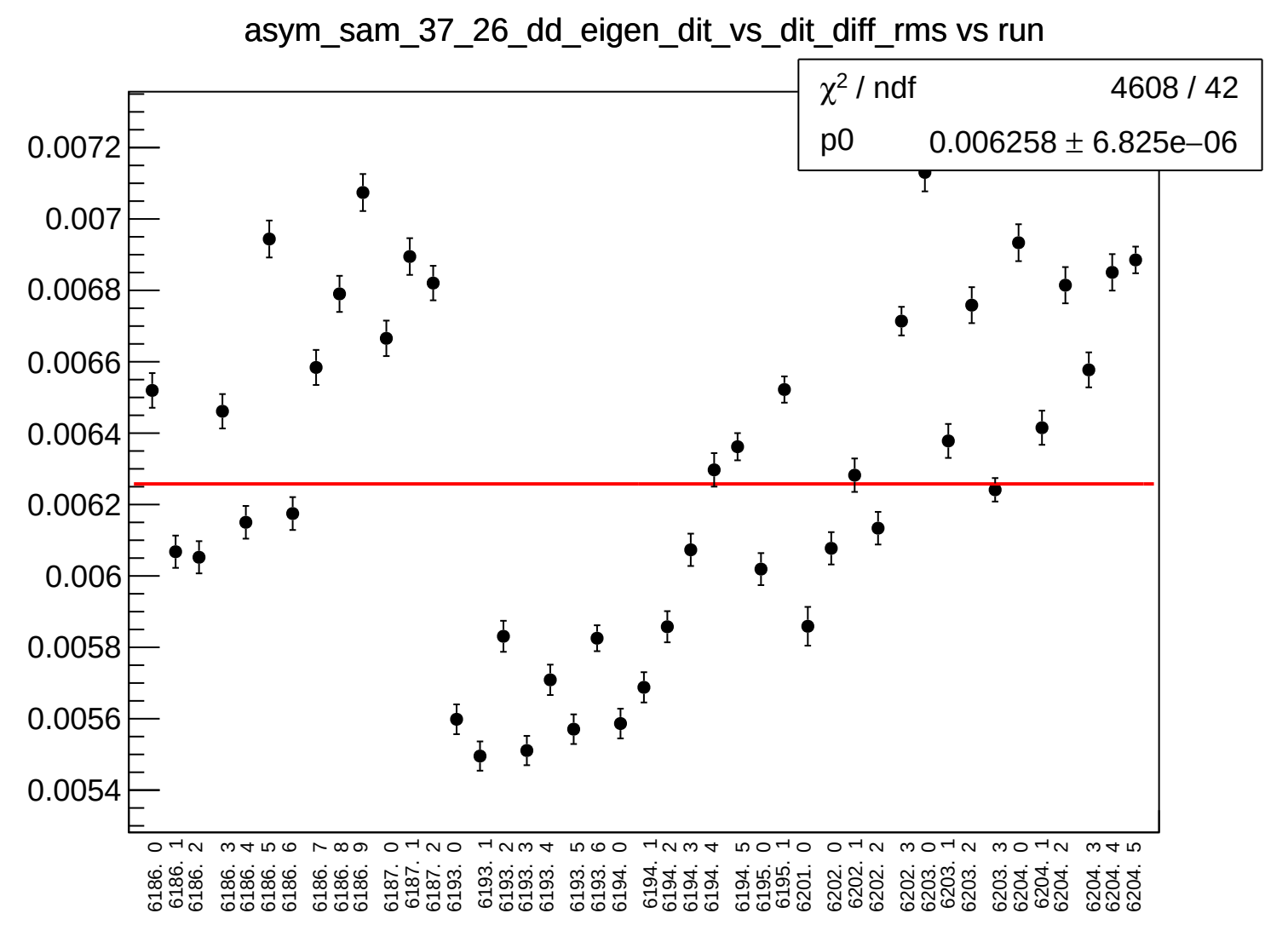

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56.02 / 42
p0 −0.08124 ± 0.02726
pull
Entries 43
Mean −136
Std Dev 0

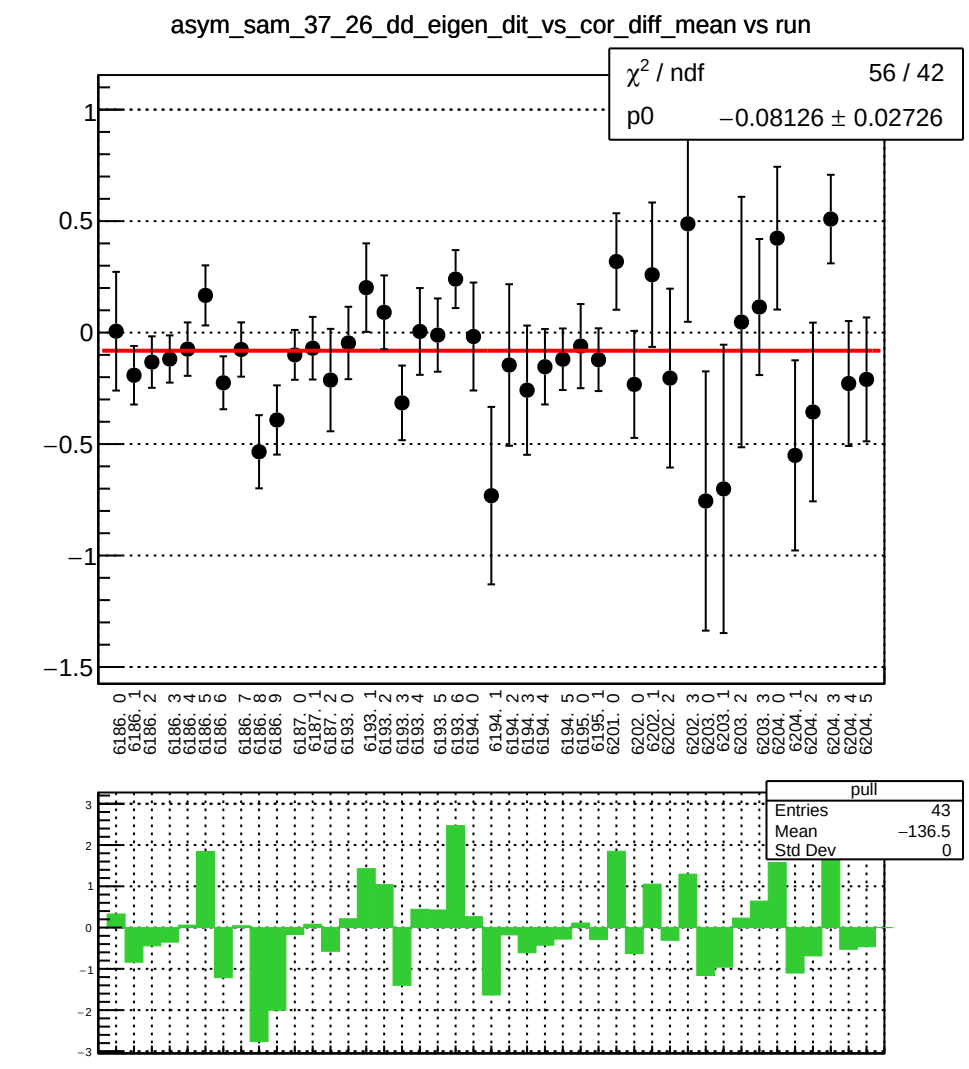

pull1D
Entries 43
Mean −0.01463
Std Dev 1.141

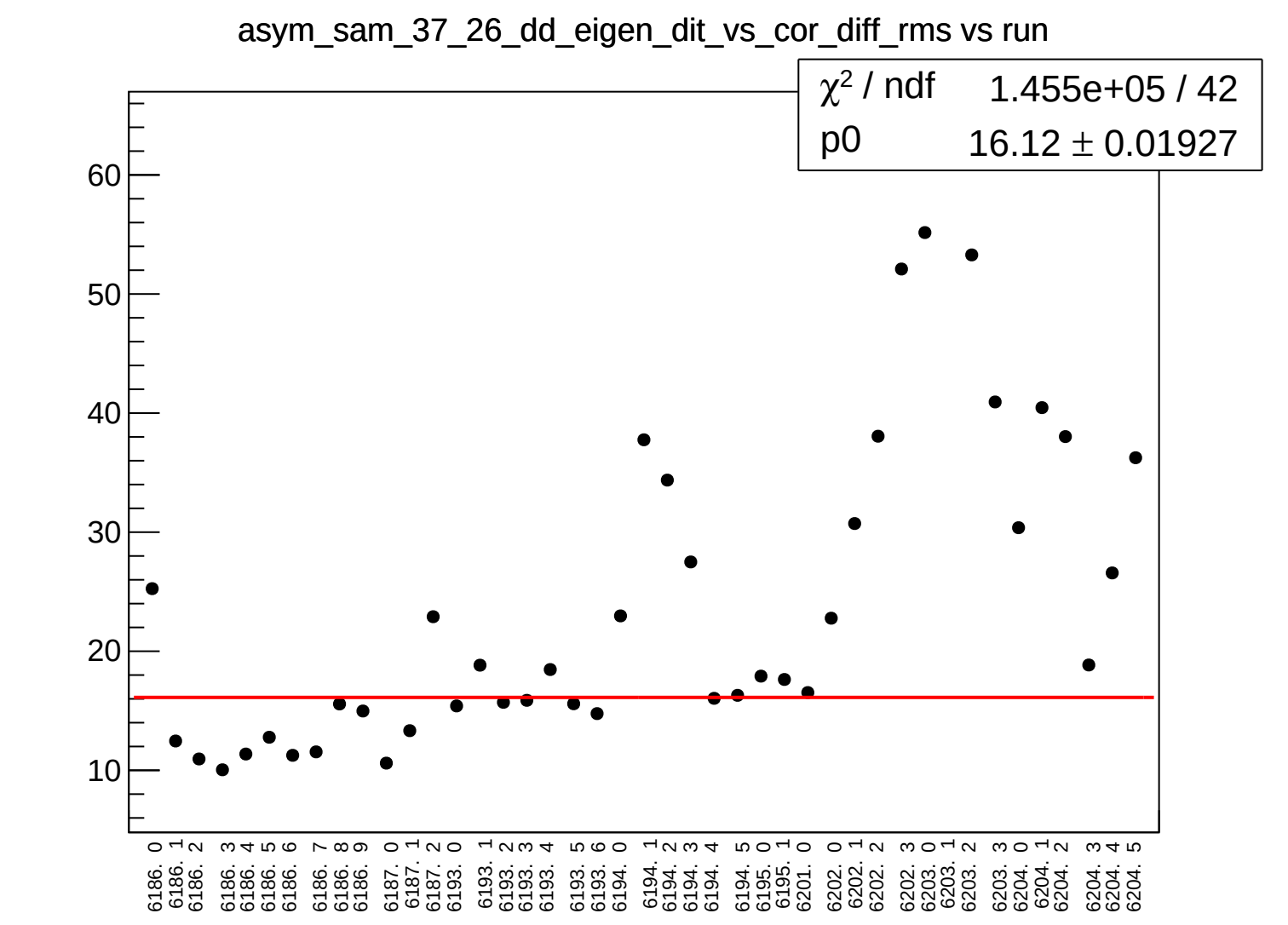

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.455e+05 / 42
p0 16.12 ± 0.01927
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

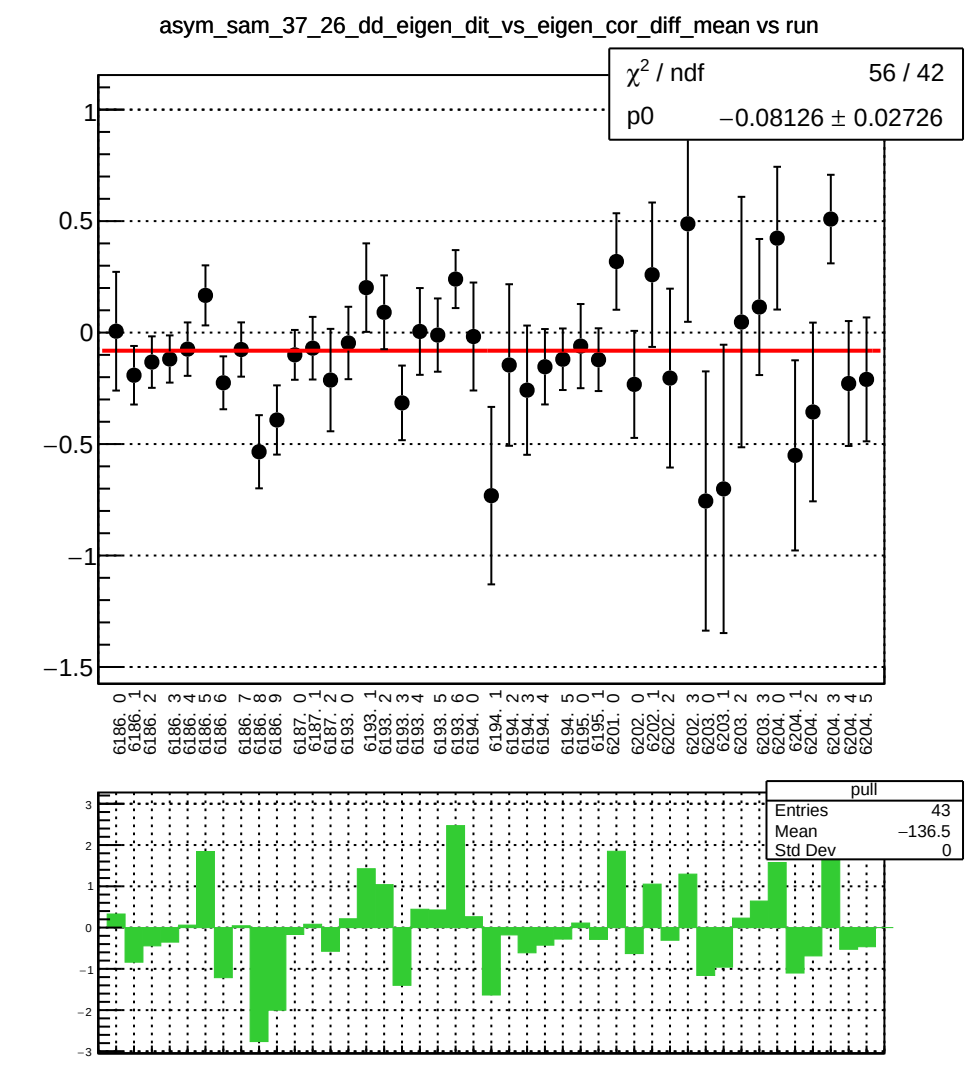

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 59.28 / 42
p0 −5.938e−06 ± 9.652e−06
pull
Entries 43
Mean 486.7
Std Dev 0

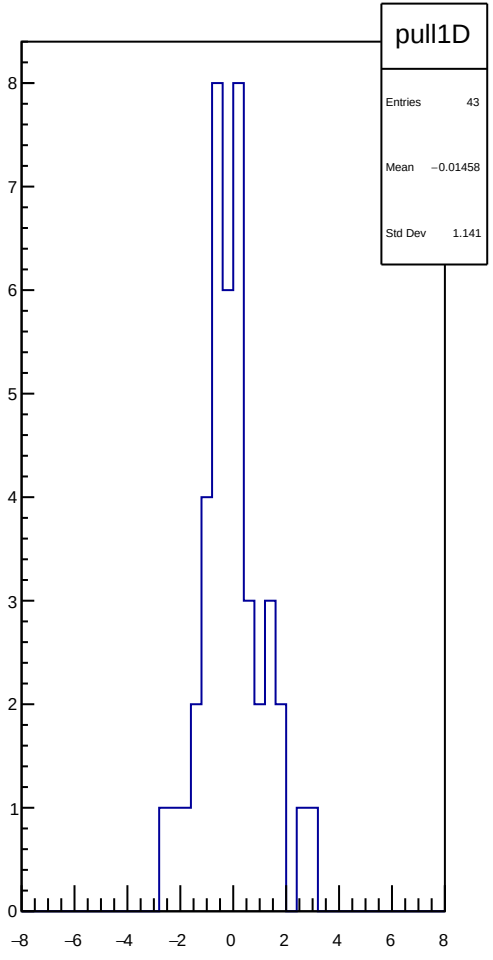

pull1D
Entries 43
Mean −0.003829
Std Dev 1.174

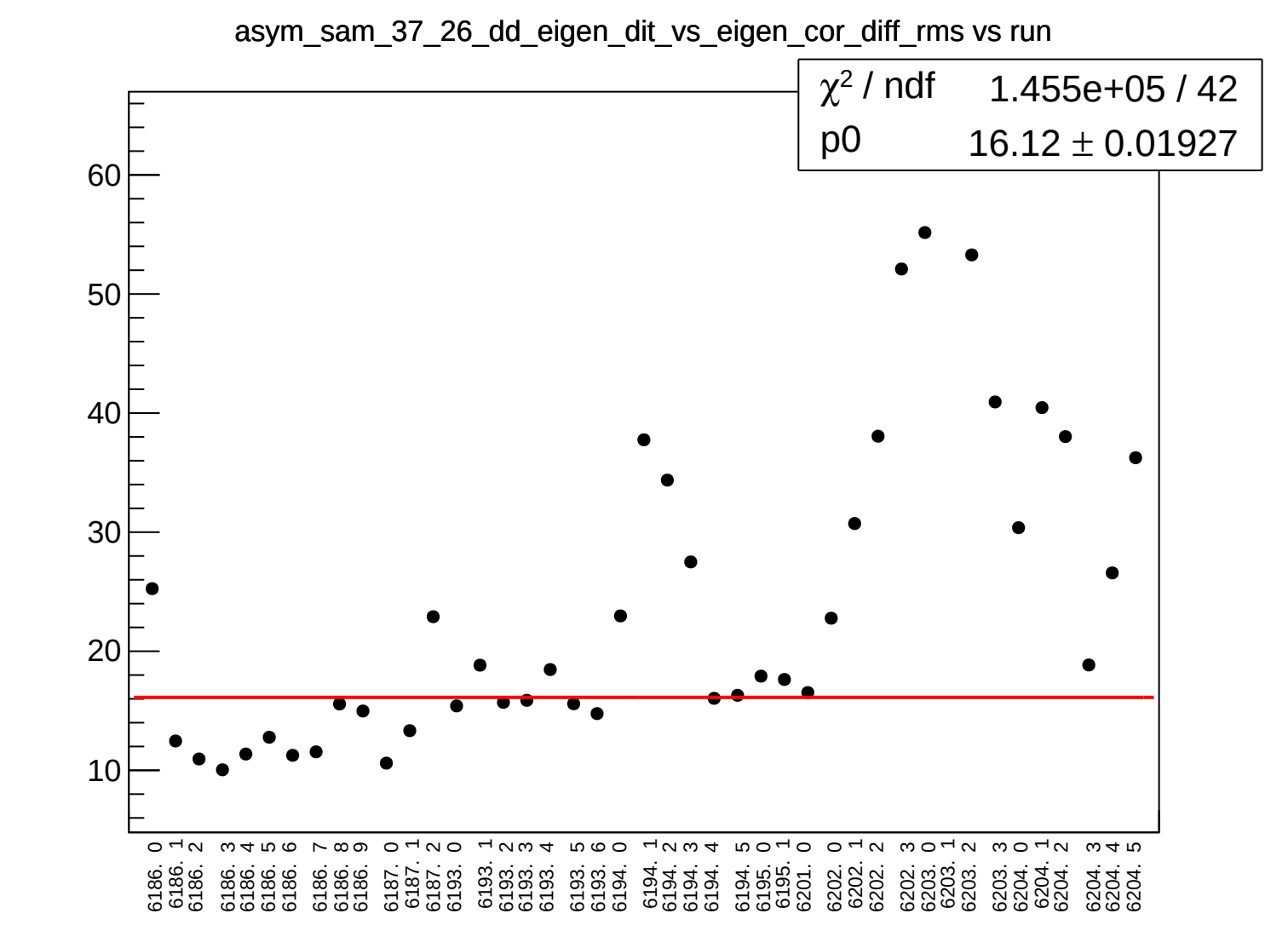

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4608 / 42
p0 0.006258 ± 6.825e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

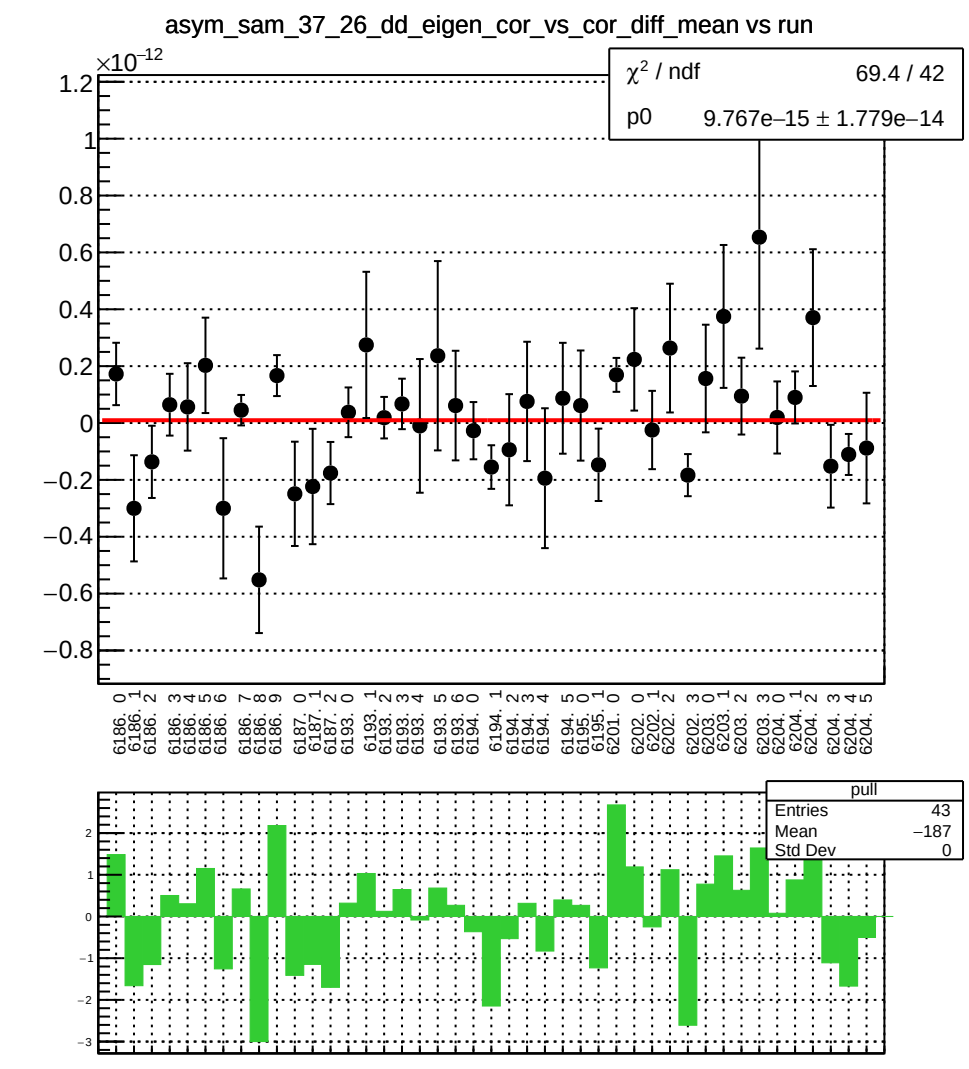

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 56 / 42
p0 −0.08126 ± 0.02726
pull
Entries 43
Mean −136.5
Std Dev 0
pull1D
Entries 43
Mean −0.01458
Std Dev 1.141

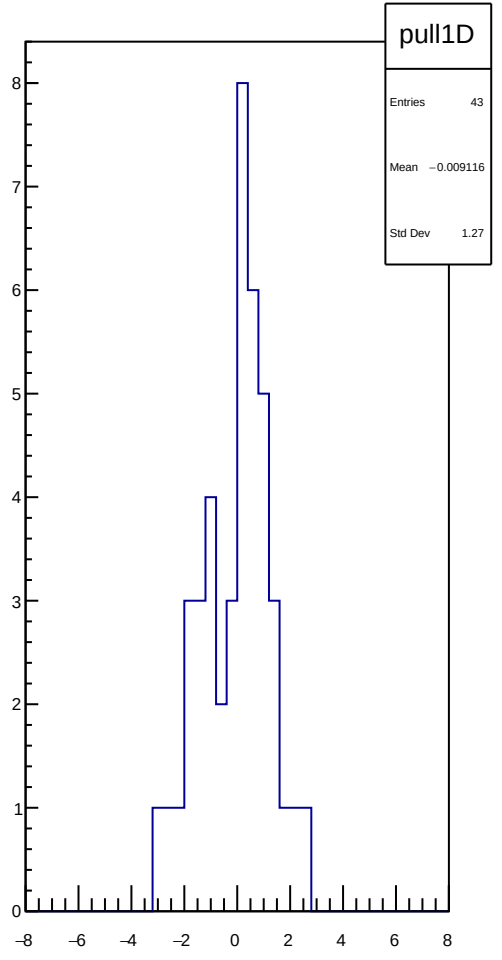

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.455e+05 / 42
p0 16.12 ± 0.01927
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

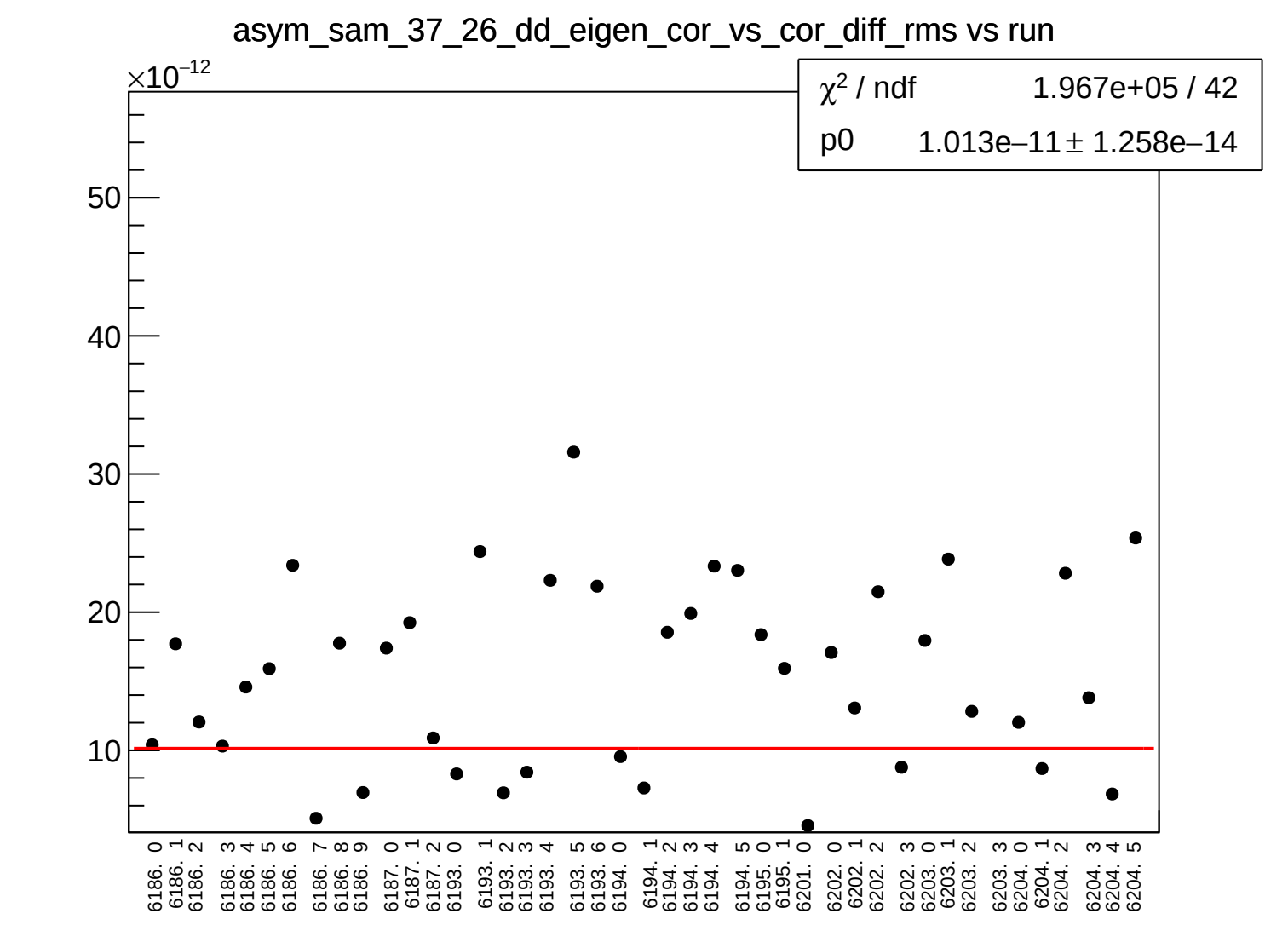

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 56 / 42
p0 −0.08126 ± 0.02726
pull
Entries 43
Mean −136.5
Std Dev 0

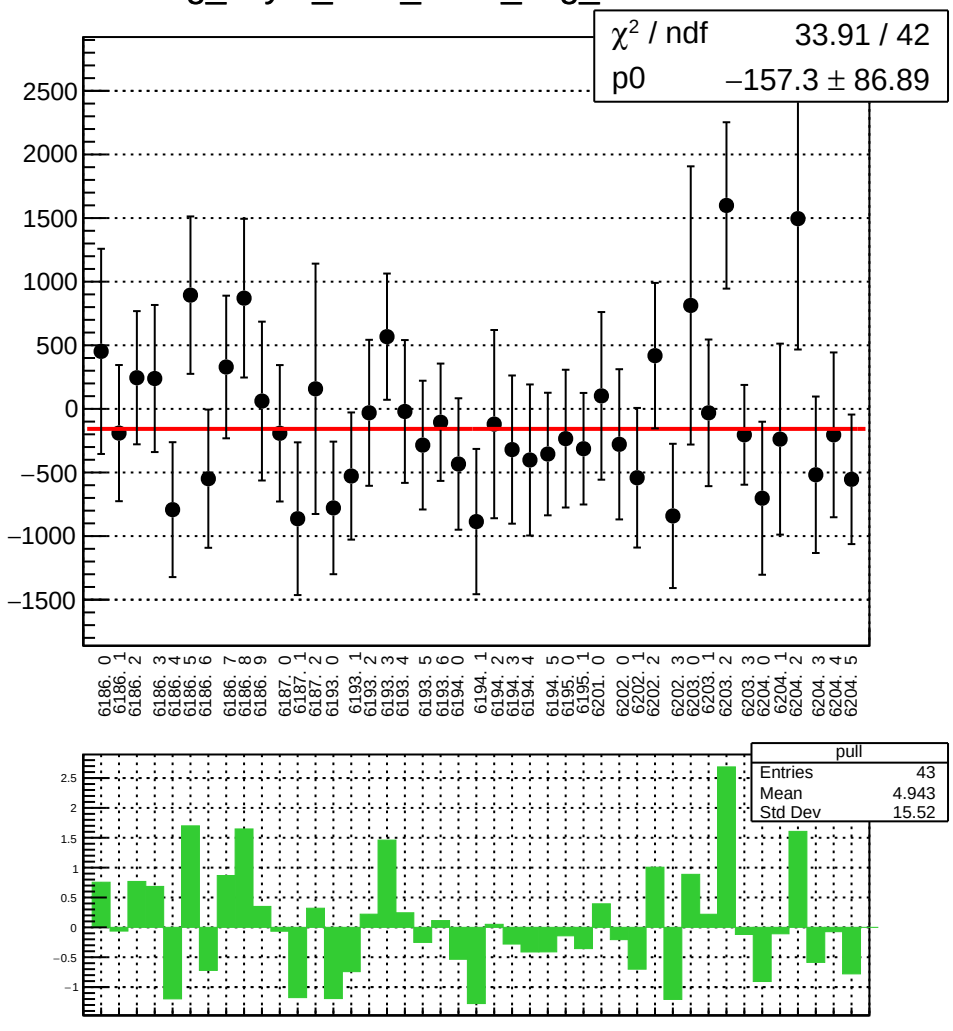

pull1D
Entries 43
Mean −0.01458
Std Dev 1.141

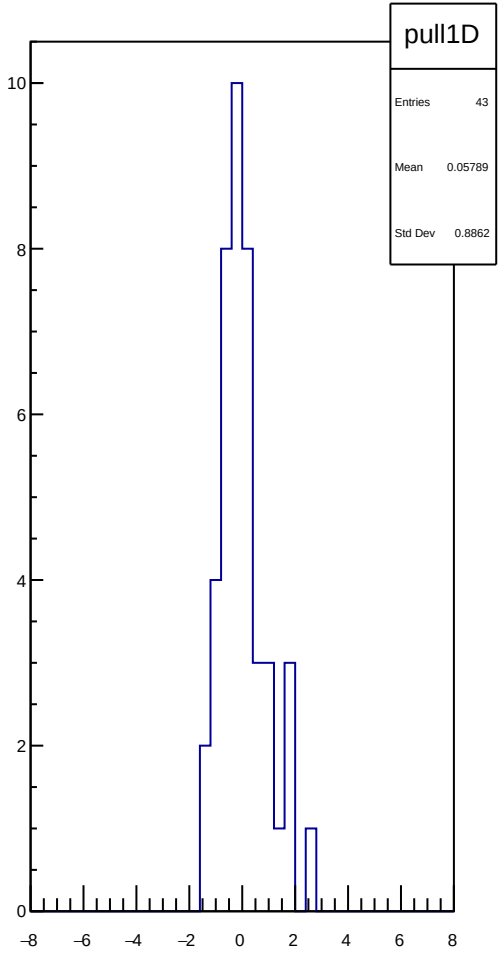

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.455e+05 / 42
p0 16.12 ± 0.01927
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

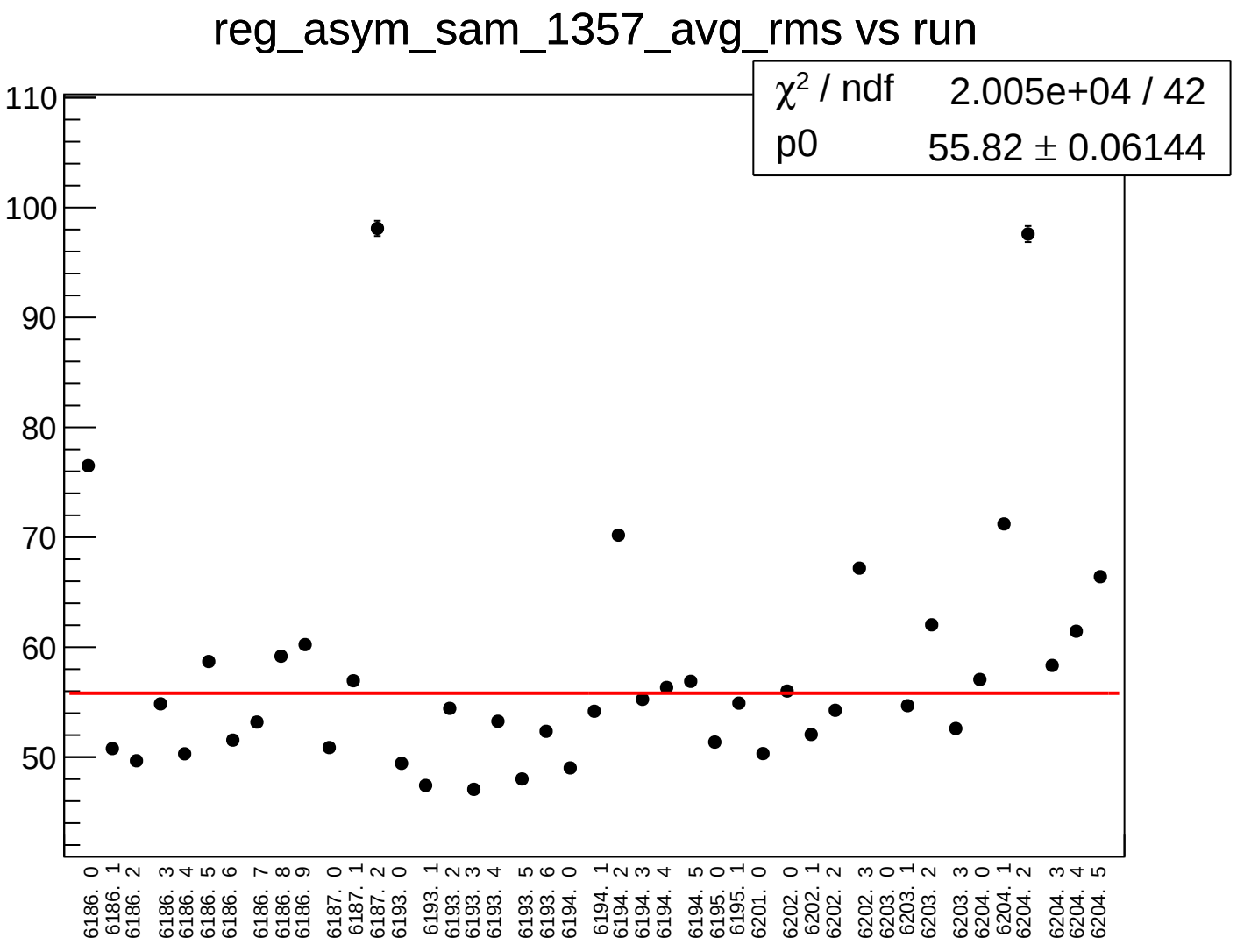

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.4 / 42
p0 9.767e−15 ± 1.779e−14
pull
Entries 43
Mean −187
Std Dev 0

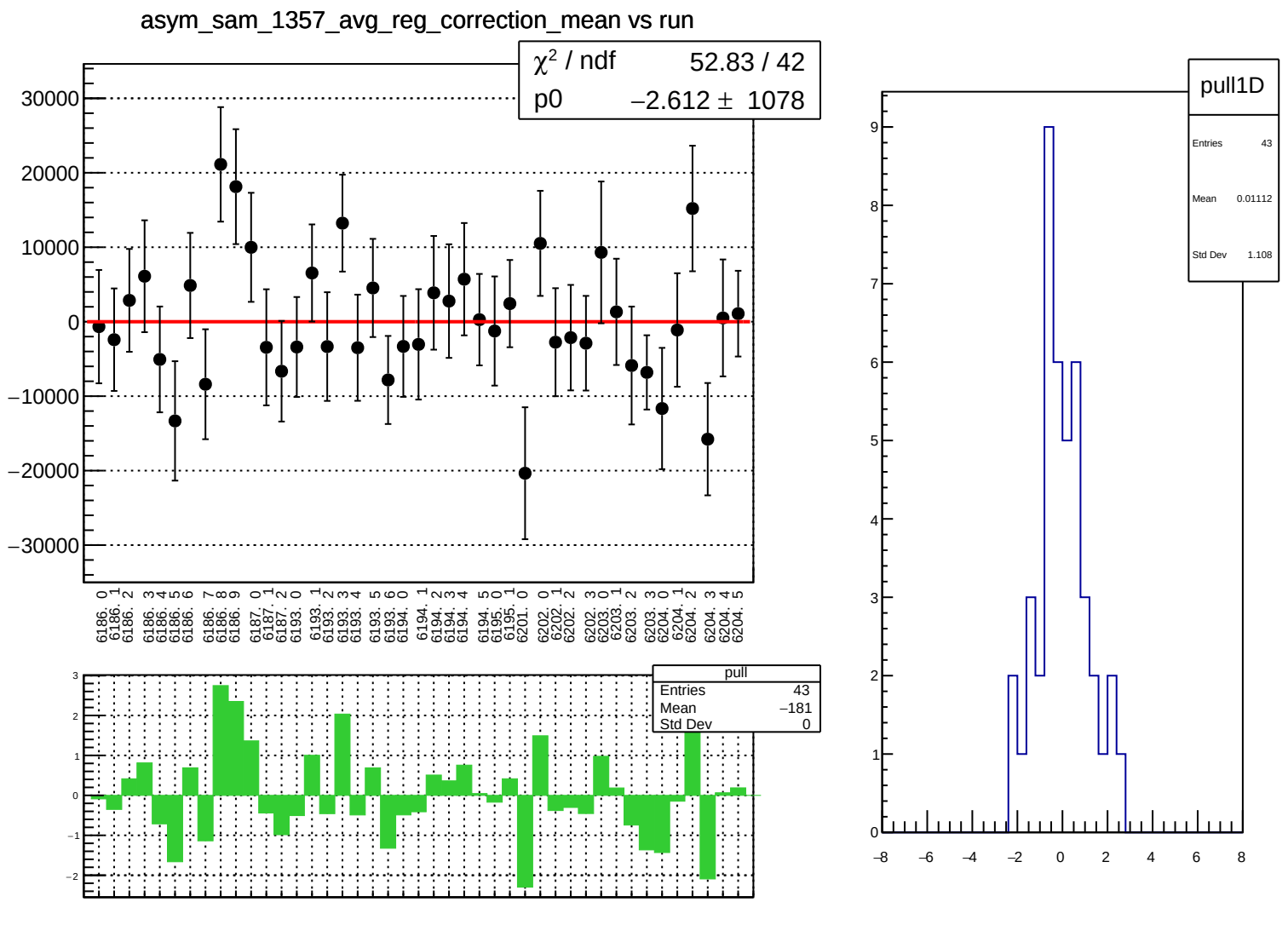

pull1D
Entries 43
Mean −0.009116
Std Dev 1.27

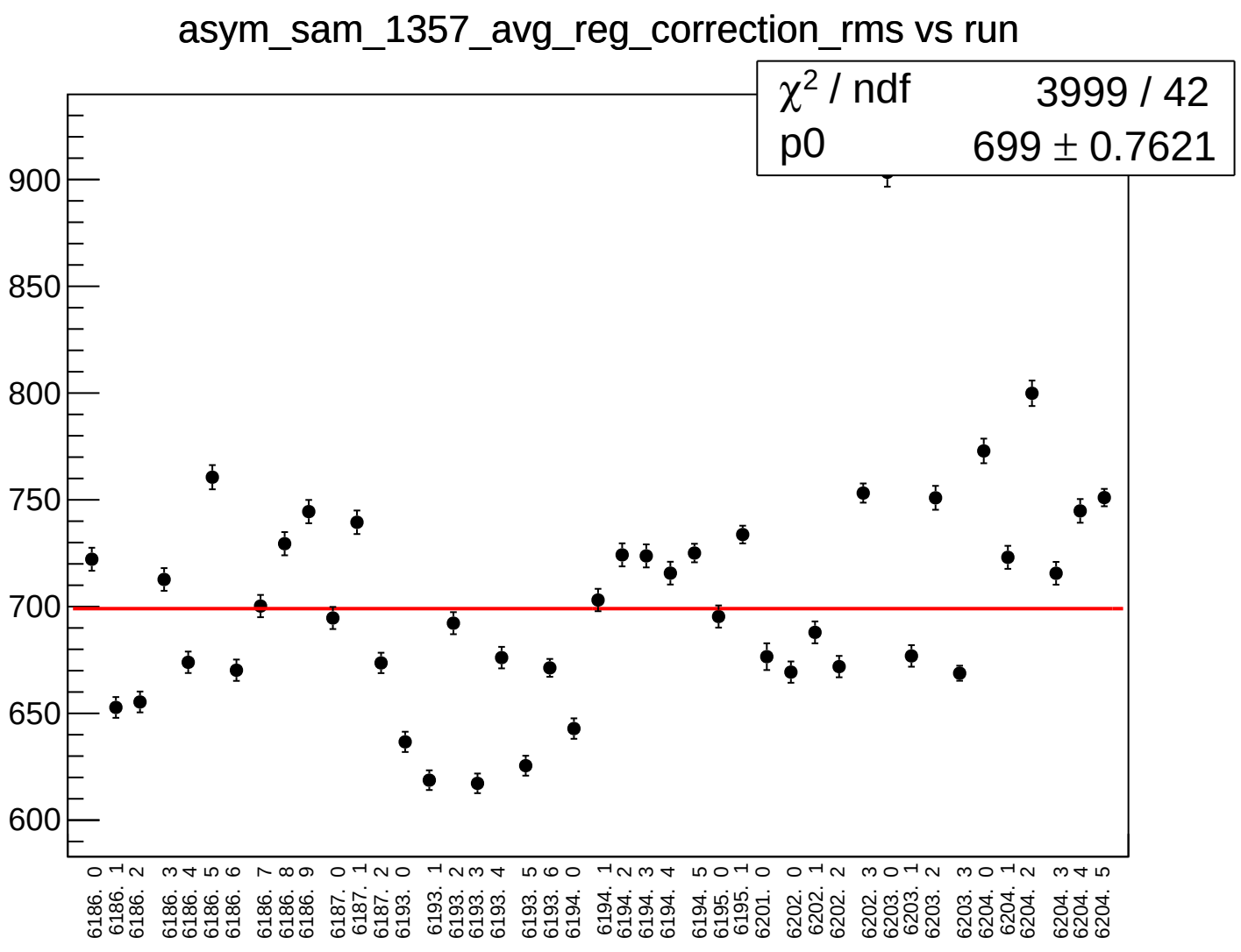

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 1.967e+05 / 42
p0 1.013e−11 ± 1.258e−14
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_sam_1357_avg_mean vs run
χ² / ndf 33.91 / 42
p0 −157.3 ± 86.89
2500
2000
1500
1000
500
0
−500
−1000
−1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.943
Std Dev 15.52
2.5
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 43
Mean 0.05789
Std Dev 0.8862
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_1357_avg_rms vs run
χ² / ndf 2.005e+04 / 42
p0 55.82 ± 0.06144
110
100
90
80
70
60
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 52.83 / 42
p0 −2.612 ± 1078
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −181
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01112
Std Dev 1.108
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 3999 / 42
p0 699 ± 0.7621
900
850
800
750
700
650
600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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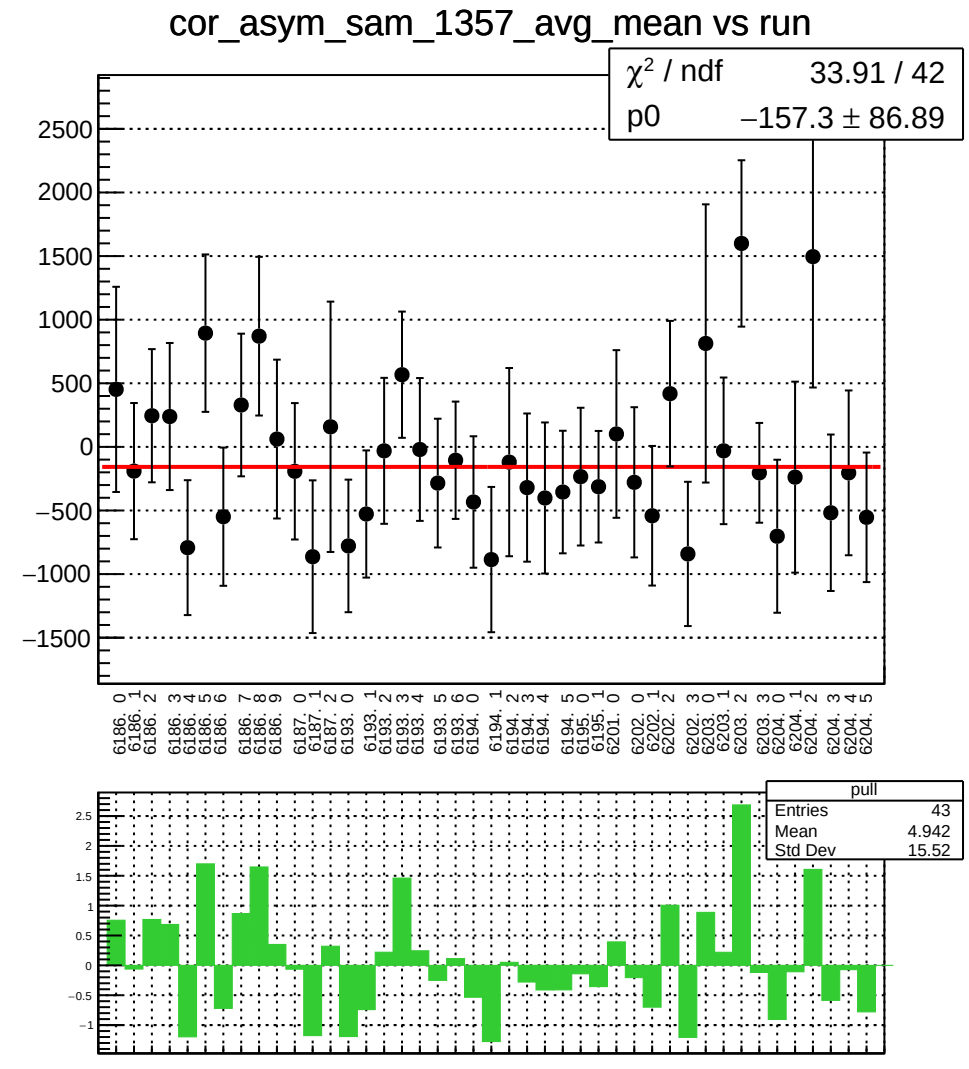
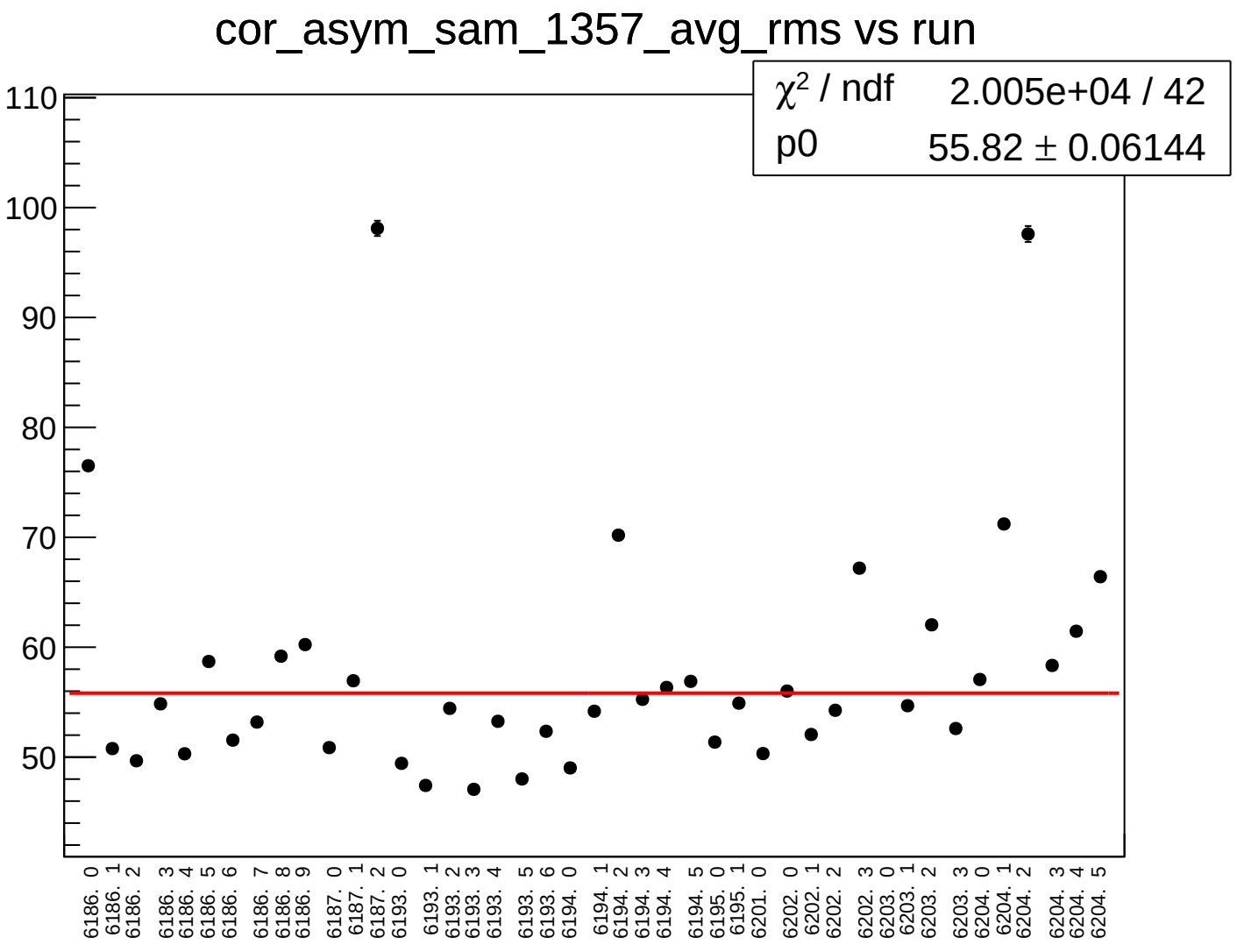
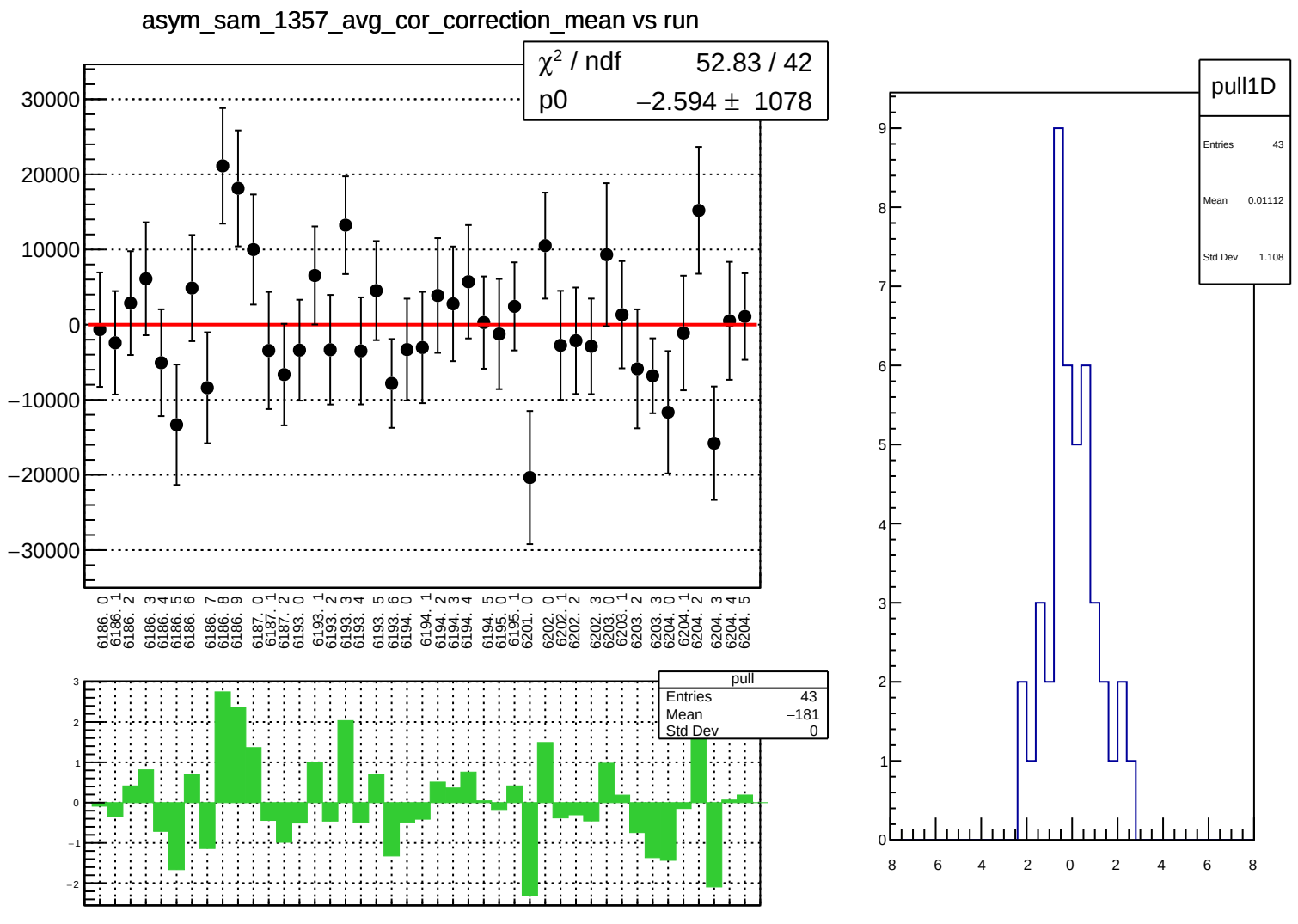
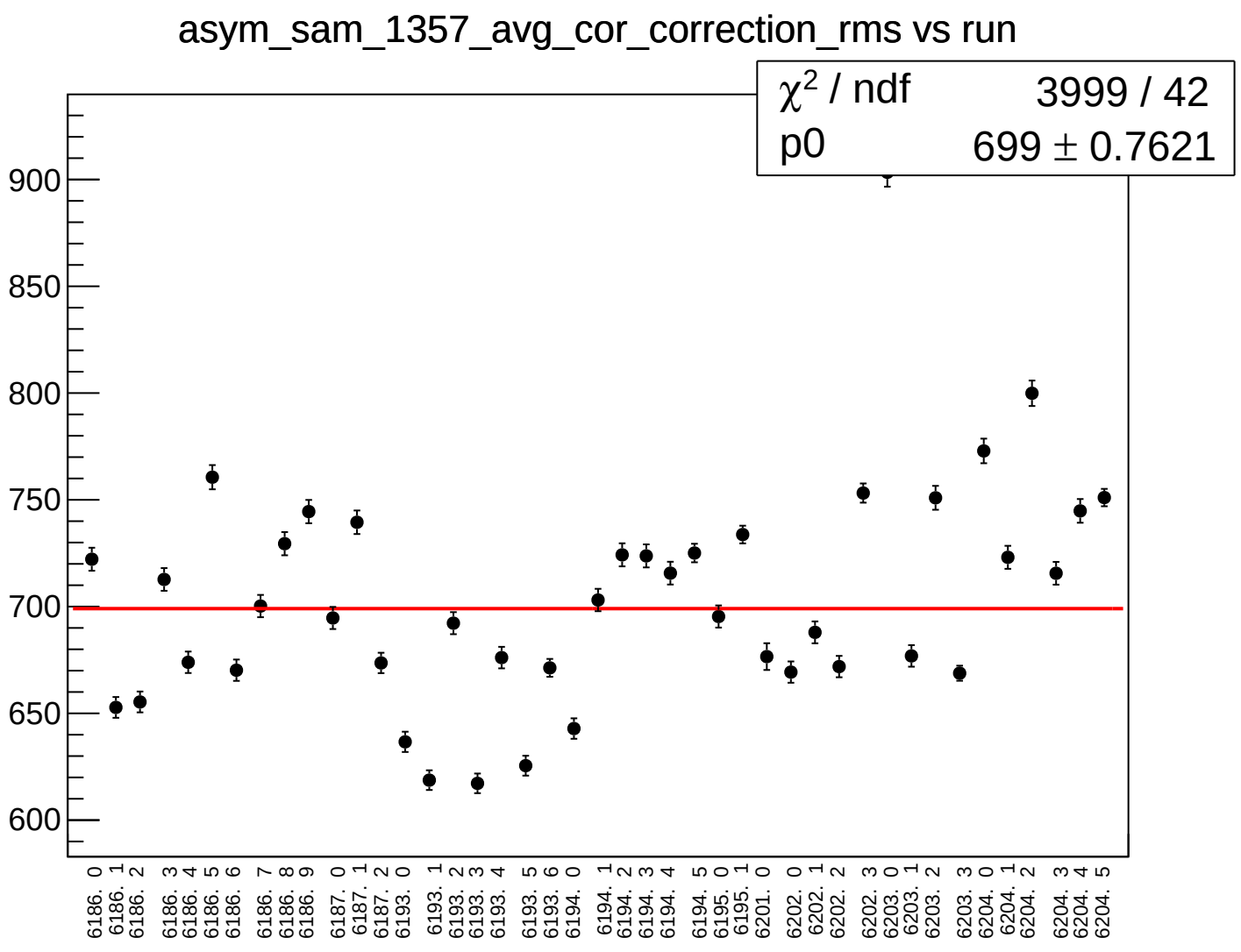
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_sam_1357_avg_mean vs run
χ² / ndf 33.91 / 42
p0 −157.3 ± 86.89
2500
2000
1500
1000
500
0
−500
−1000
−1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.942
Std Dev 15.52
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.05789
Std Dev 0.8861
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2.005e+04 / 42
p0 55.82 ± 0.06144
110
100
90
80
70
60
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 52.83 / 42
p0 −2.594 ± 1078
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −181
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01112
Std Dev 1.108
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 3999 / 42
p0 699 ± 0.7621
900
850
800
750
700
650
600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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6203. 2
6203. 3
6204. 0
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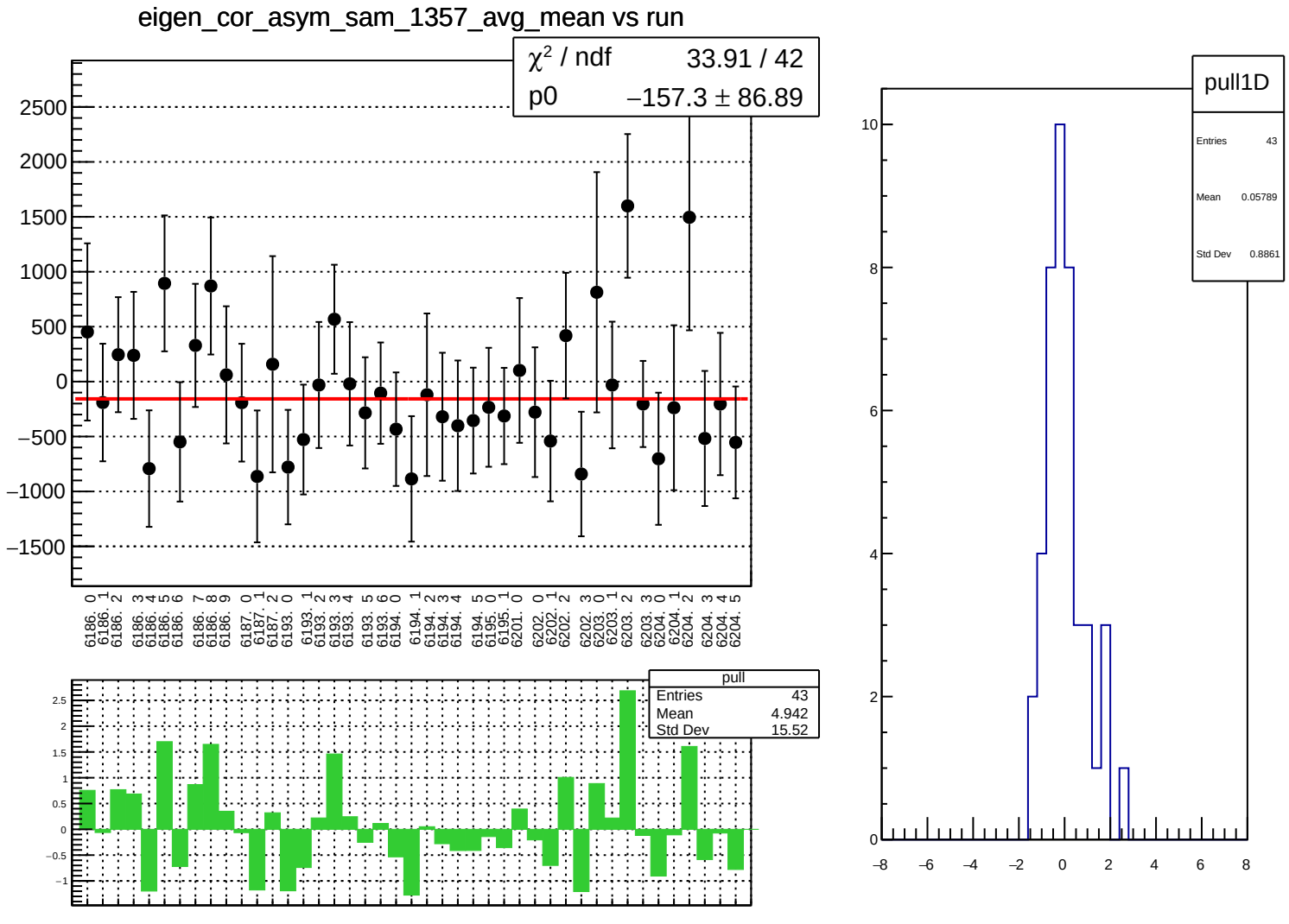
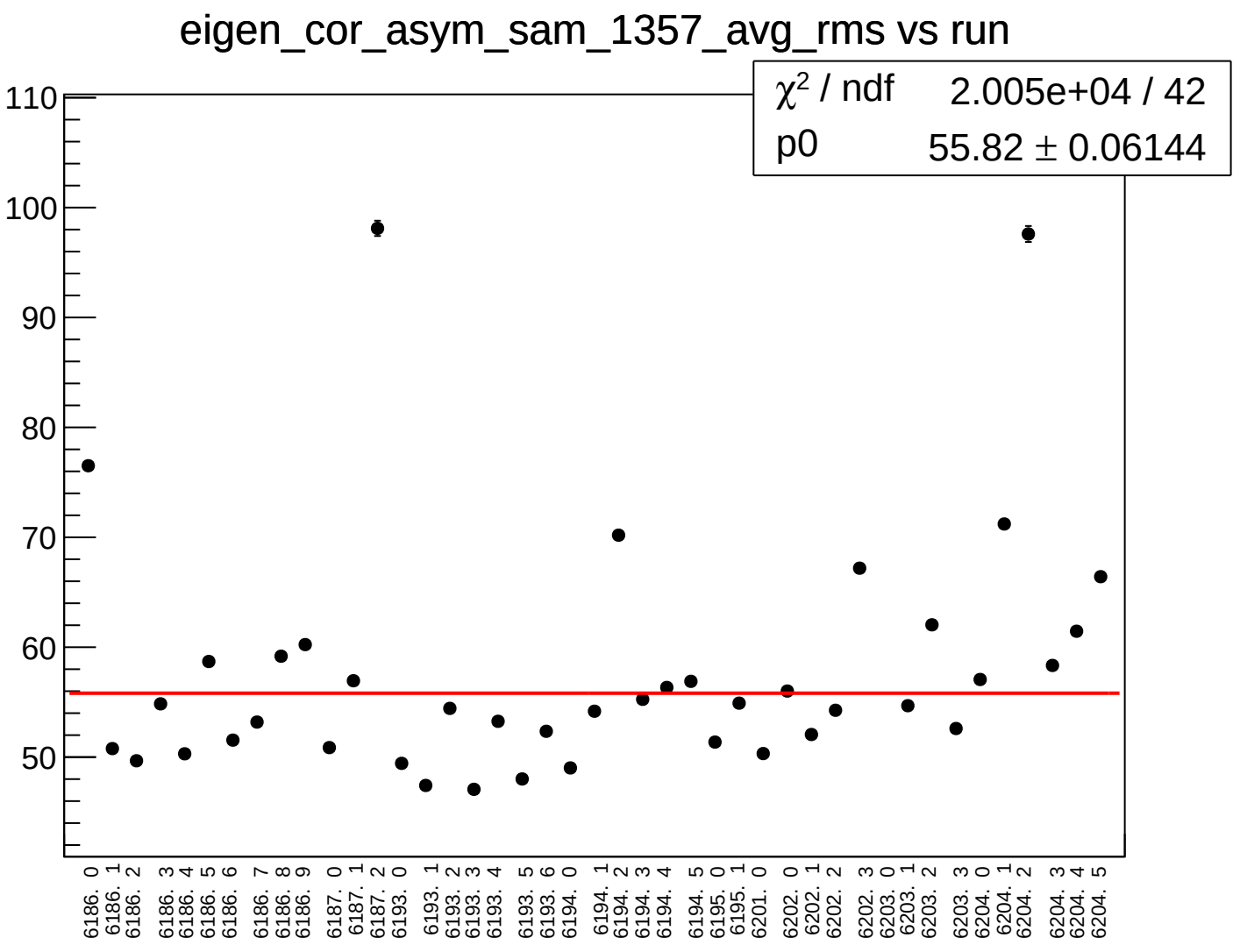
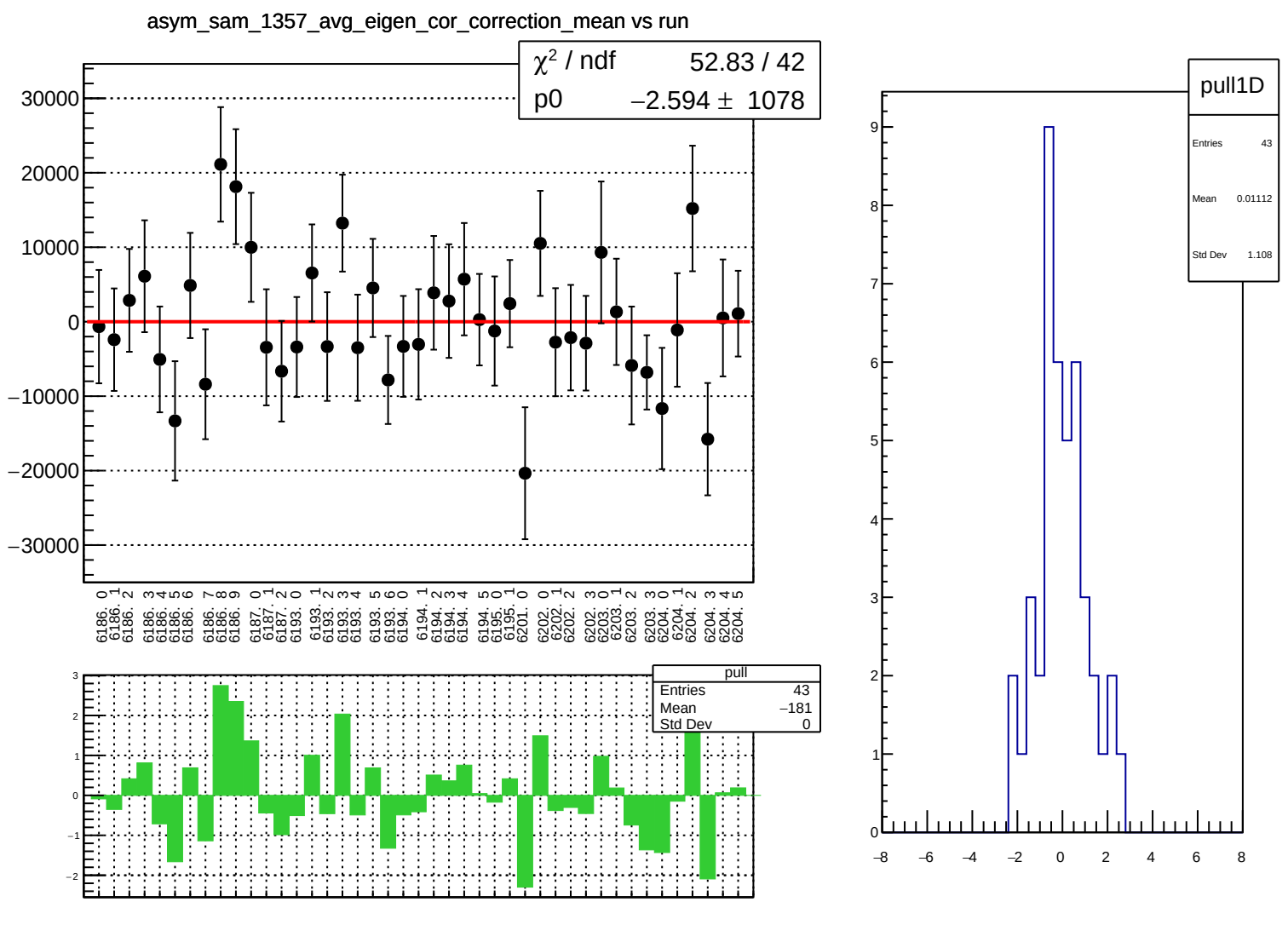
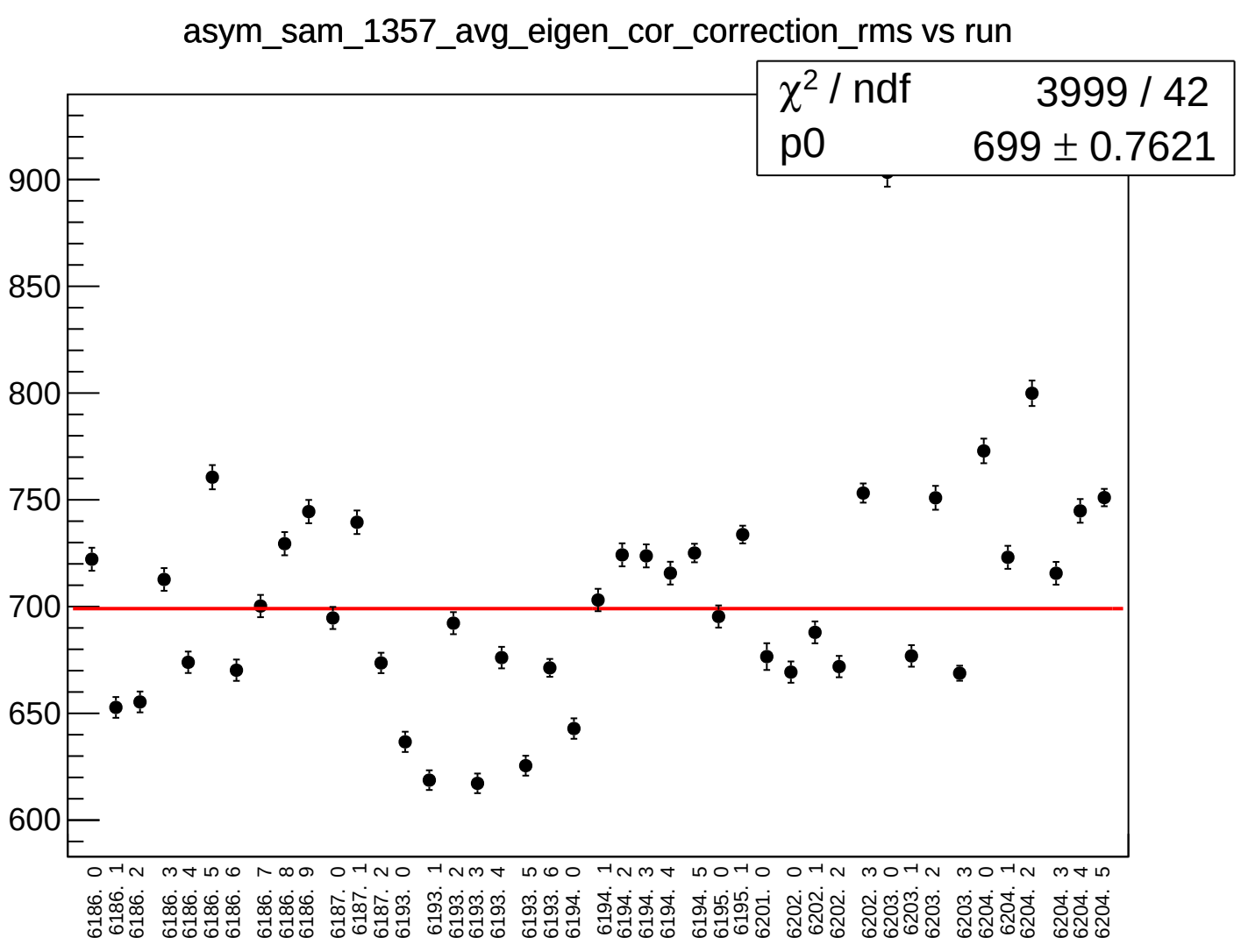
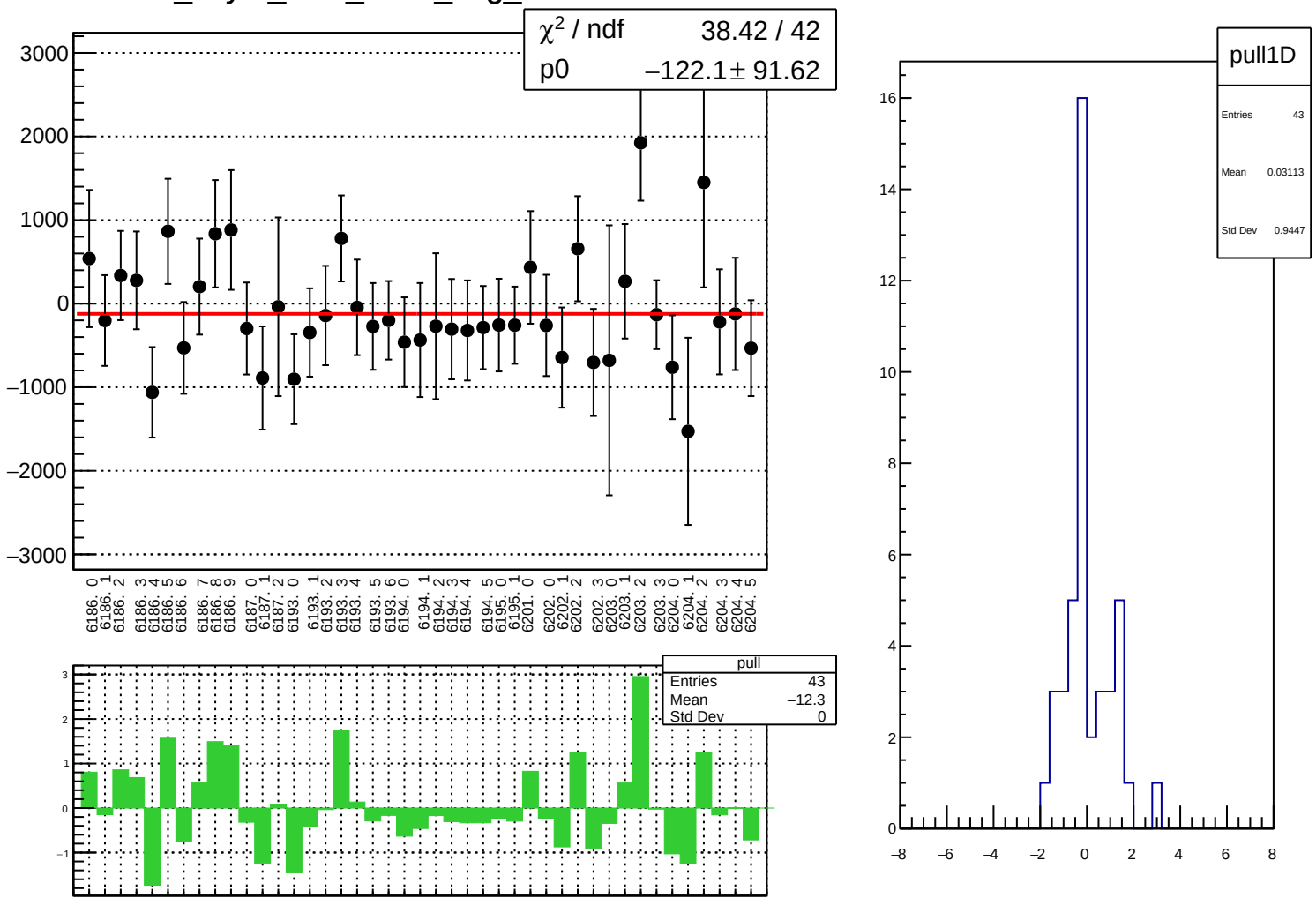
6204. 2
6204. 3
6204. 4
6204. 5

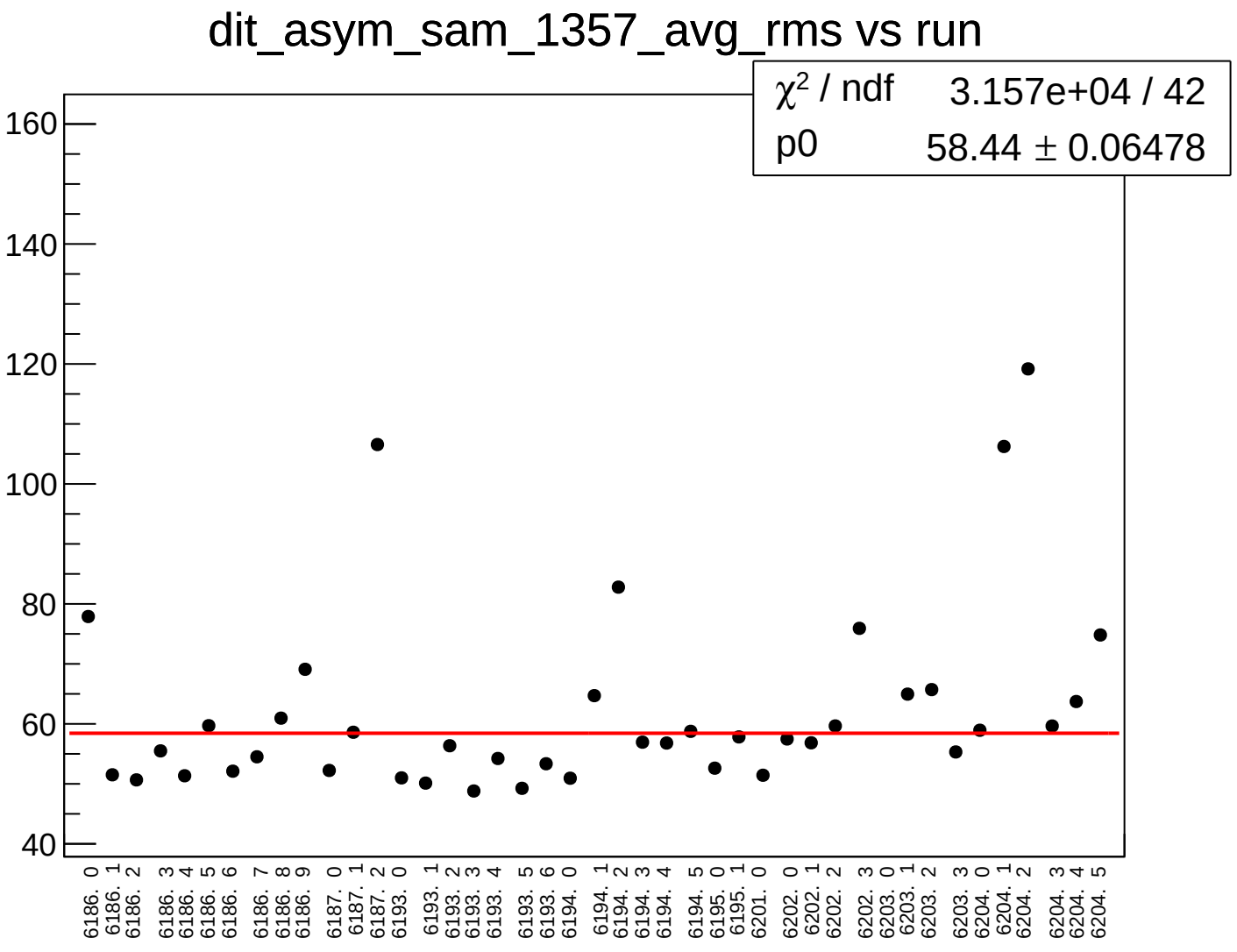

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 33.91 / 42
p0 −157.3 ± 86.89
2500
2000
1500
1000
500
0
−500
−1000
−1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.942
Std Dev 15.52
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean 0.05789
Std Dev 0.8861
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

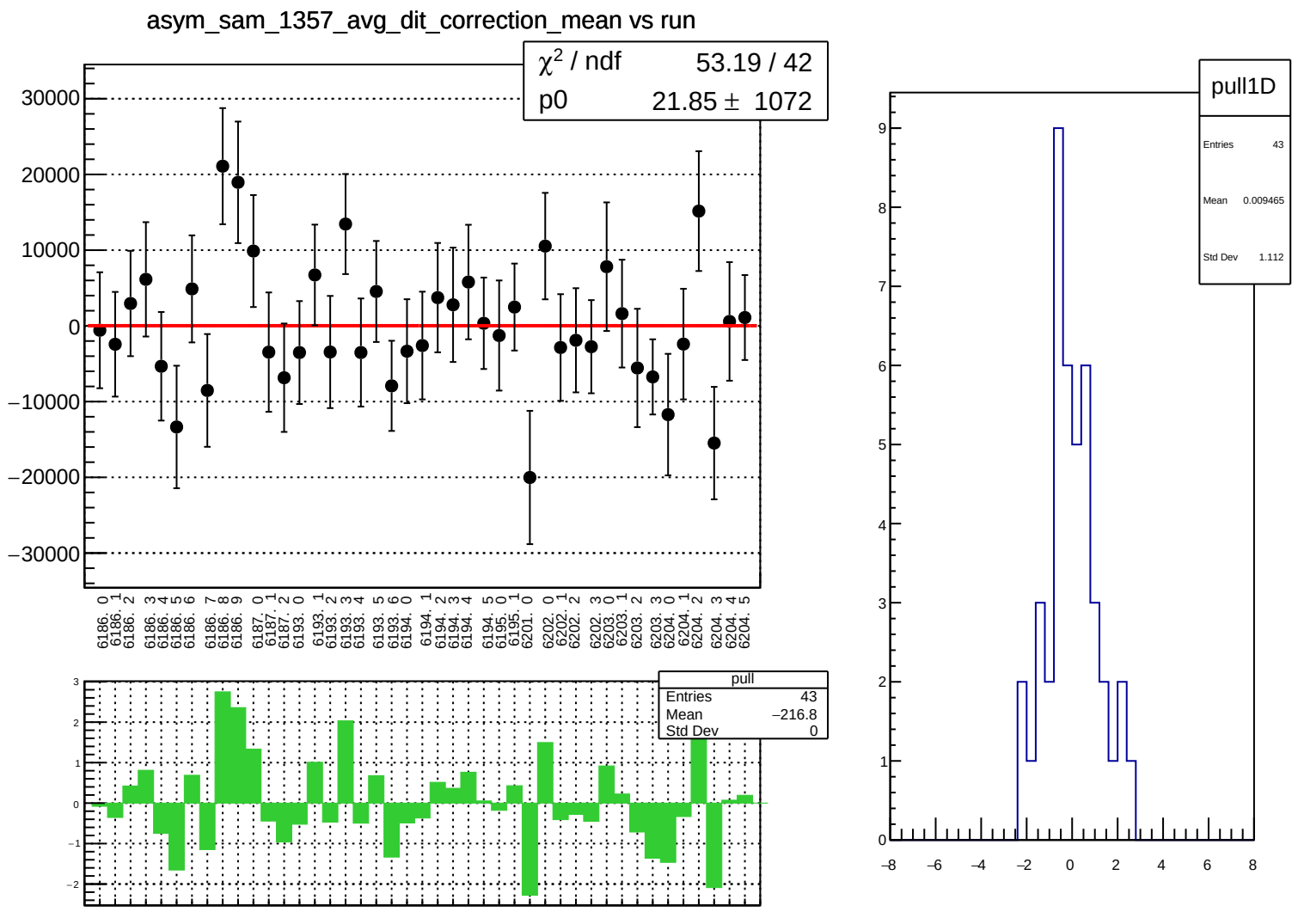

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2.005e+04 / 42
p0 55.82 ± 0.06144
110
100
90
80
70
60
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

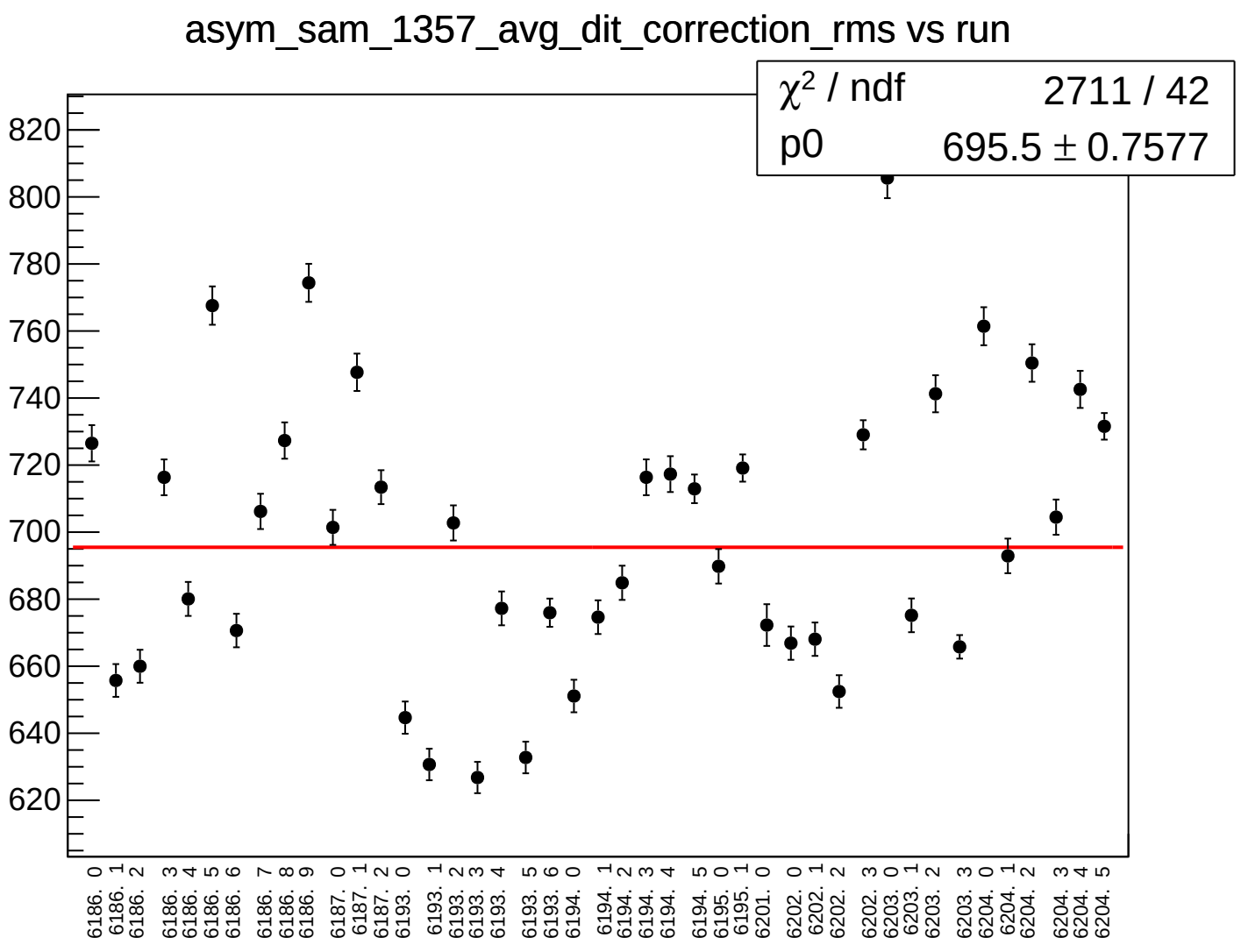

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 52.83 / 42
p0 −2.594 ± 1078
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −181
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01112
Std Dev 1.108
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

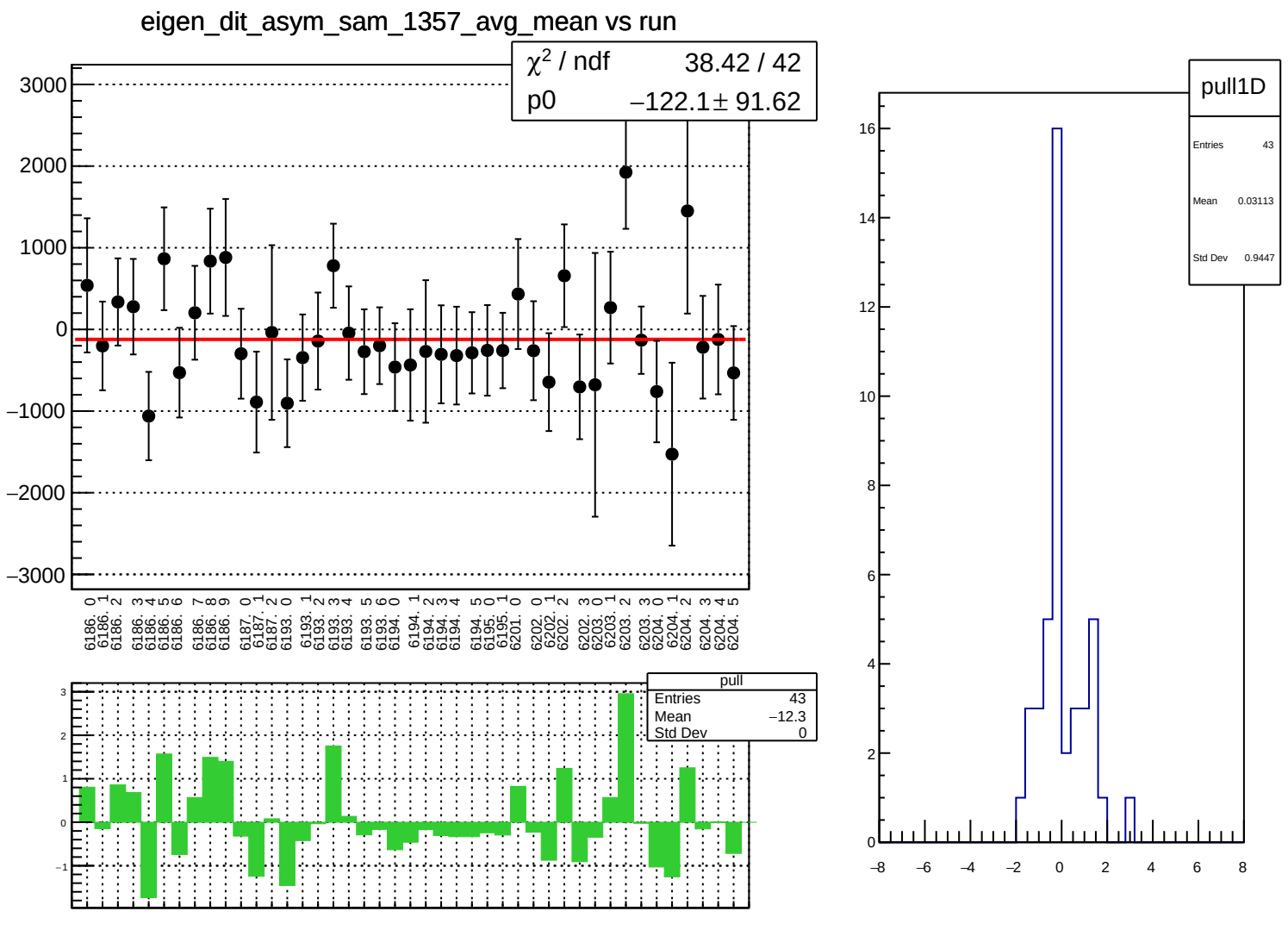

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 3999 / 42
p0 699 ± 0.7621
900
850
800
750
700
650
600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

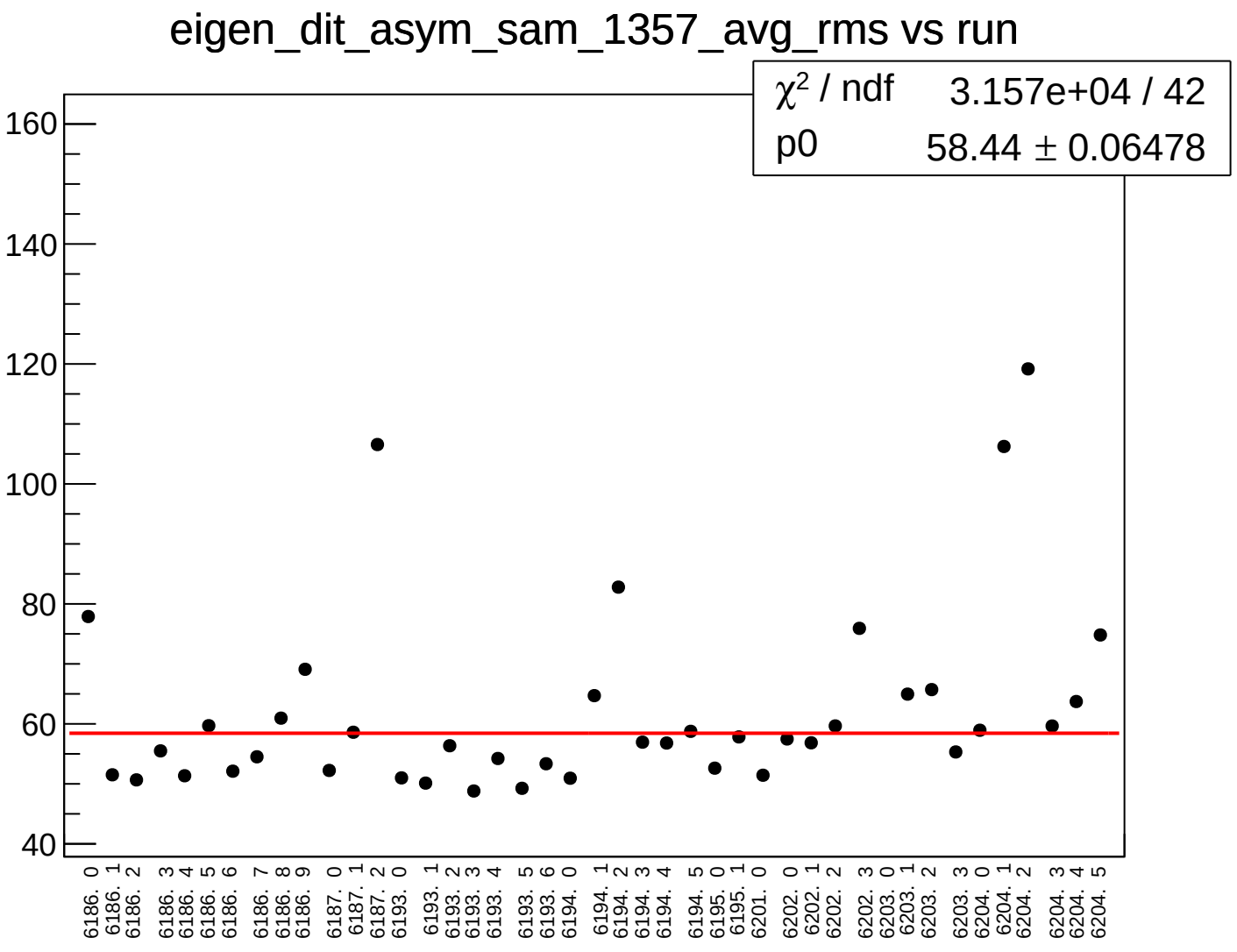

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 38.42 / 42
p0 −122.1± 91.62
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −12.3
Std Dev 0
3
2
1
0
−1
pull1D
Entries 43
Mean 0.03113
Std Dev 0.9447
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

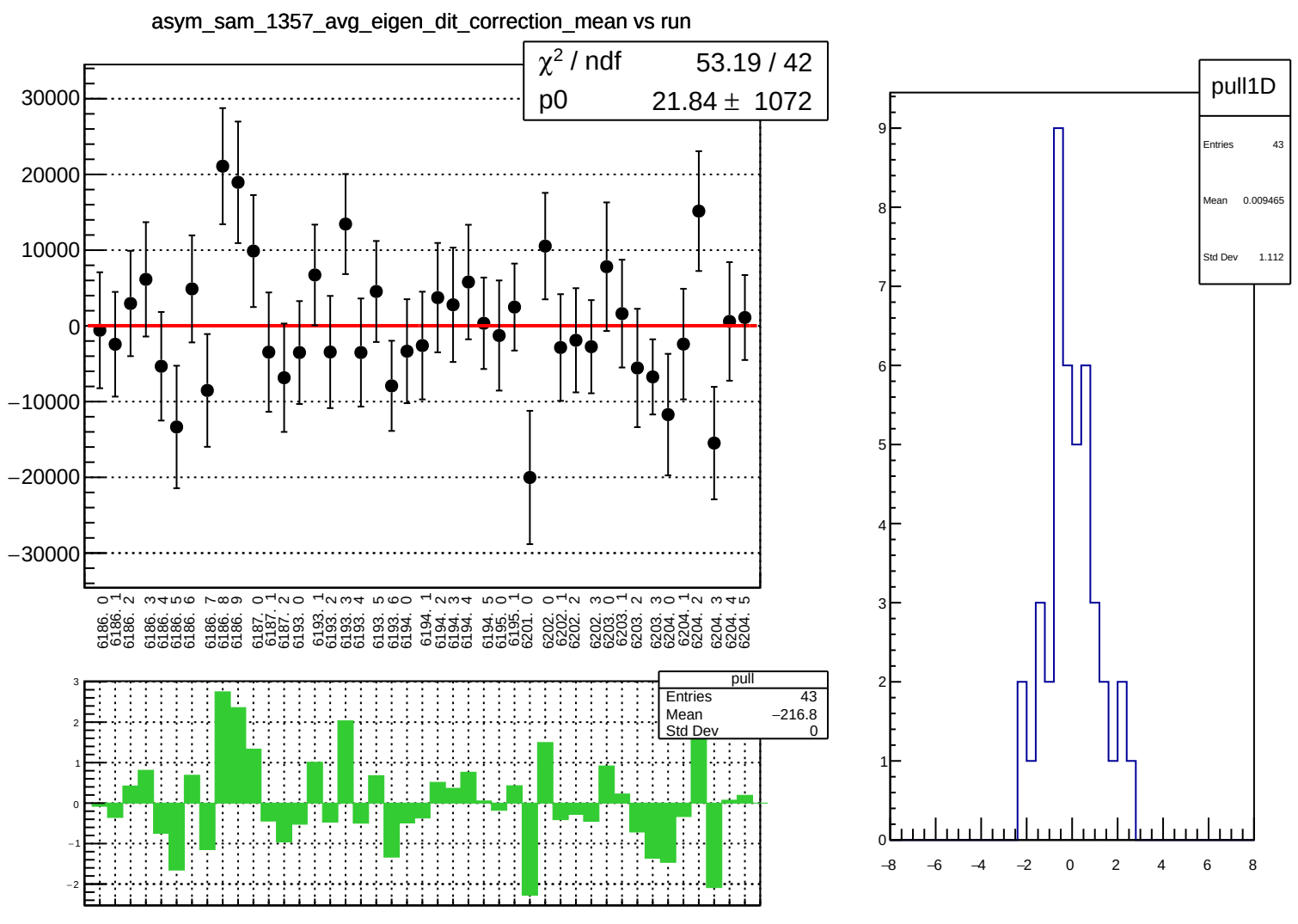

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3.157e+04 / 42
p0 58.44 ± 0.06478
160
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

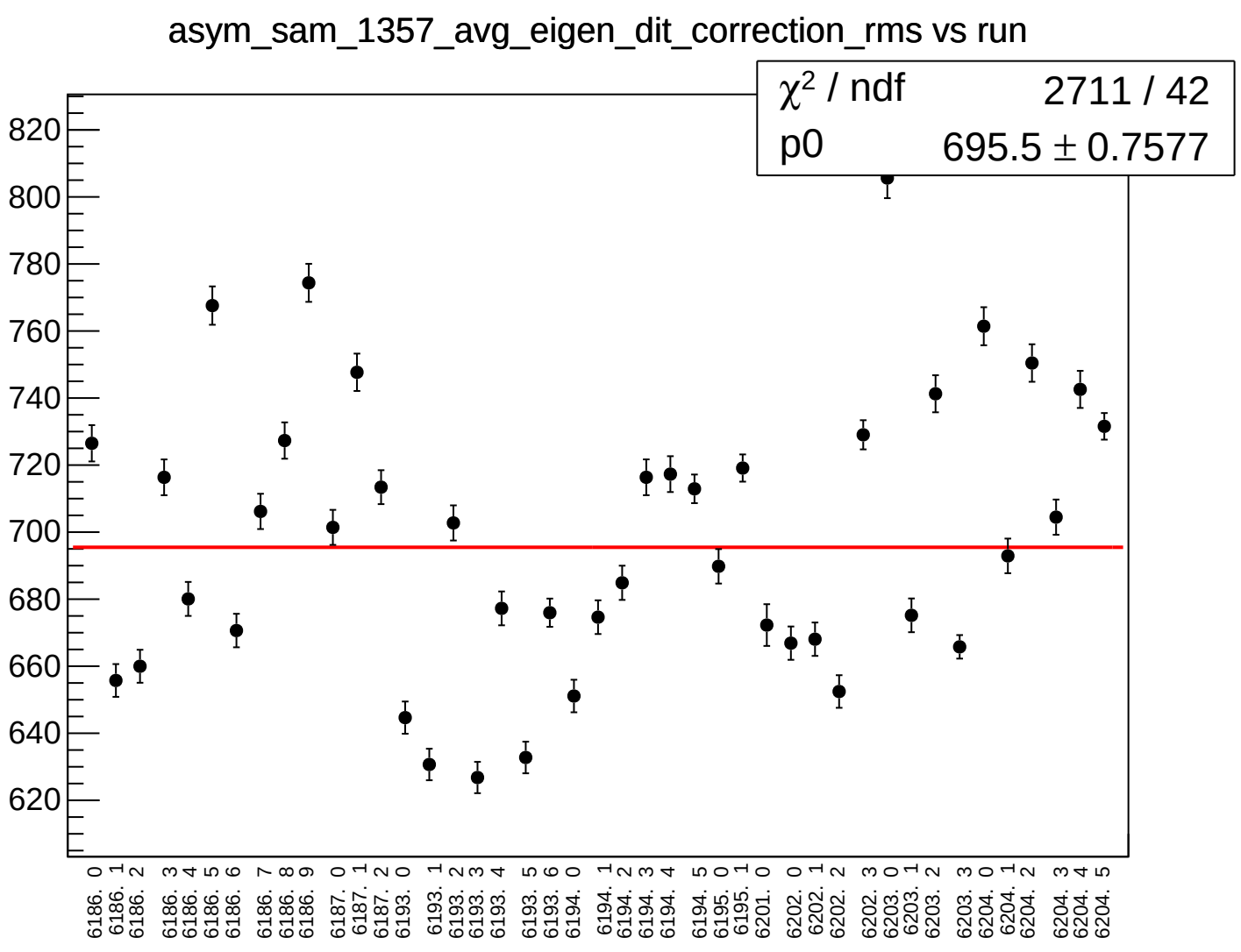

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 53.19 / 42
p0 21.85 ± 1072
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −216.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.009465
Std Dev 1.112
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

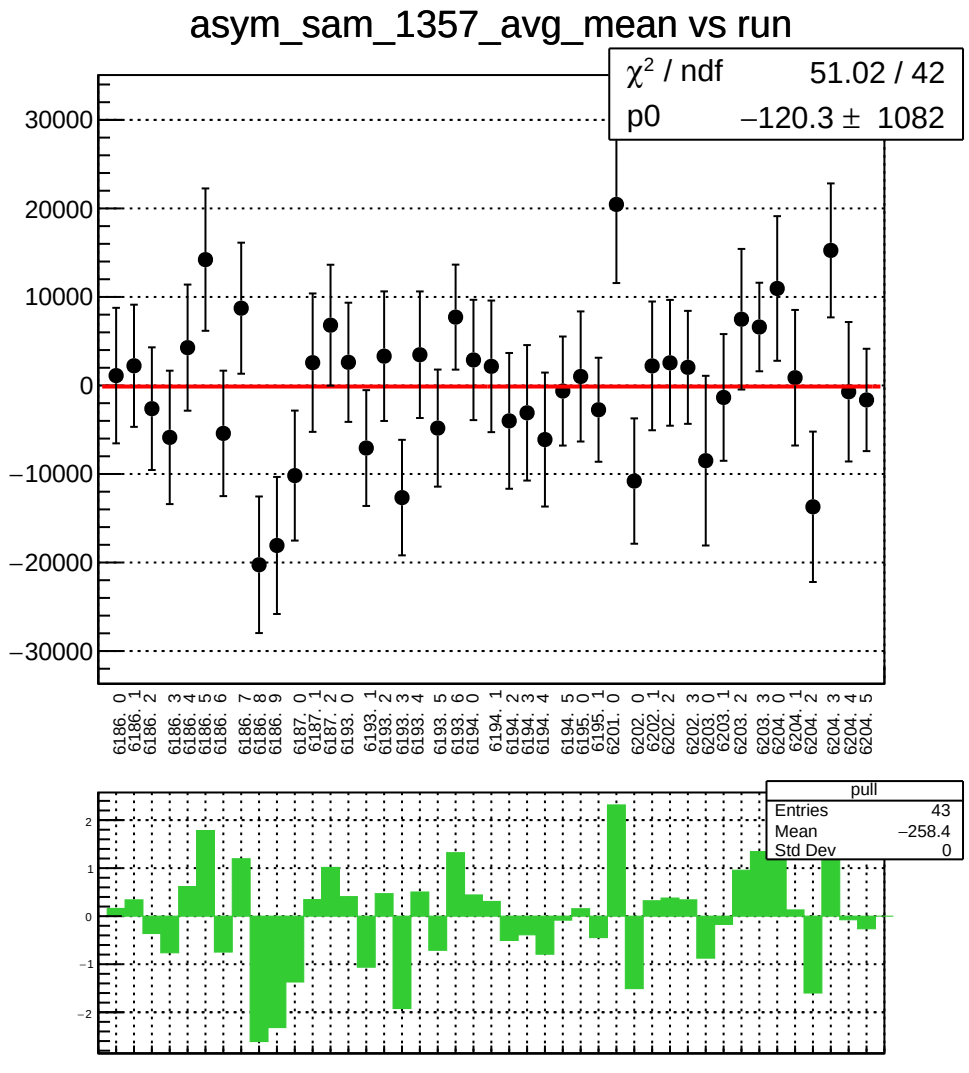

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 2711 / 42
p0 695.5 ± 0.7577
820
800
780
760
740
720
700
680
660
640
620
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

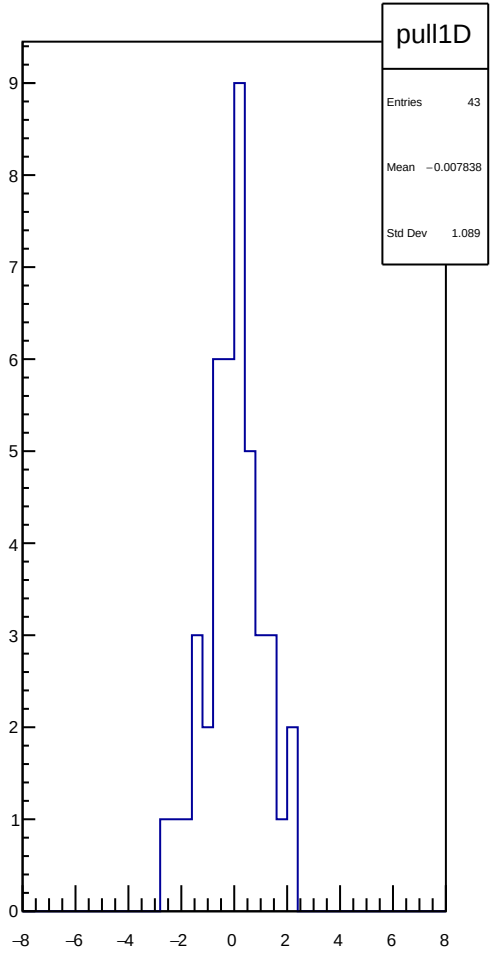

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 38.42 / 42
p0 −122.1± 91.62
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −12.3
Std Dev 0
3
2
1
0
−1
pull1D
Entries 43
Mean 0.03113
Std Dev 0.9447
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

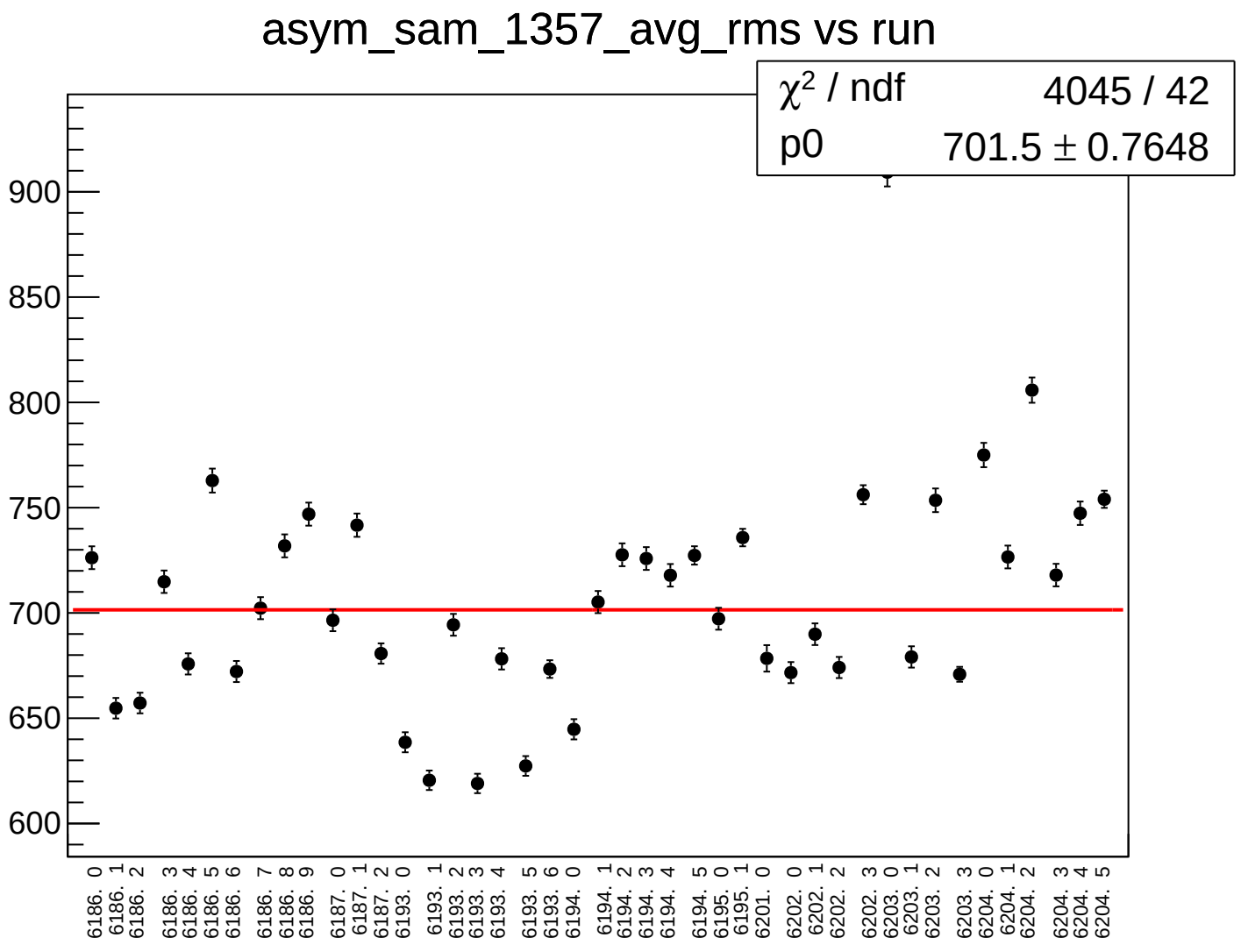

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3.157e+04 / 42
p0 58.44 ± 0.06478
160
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

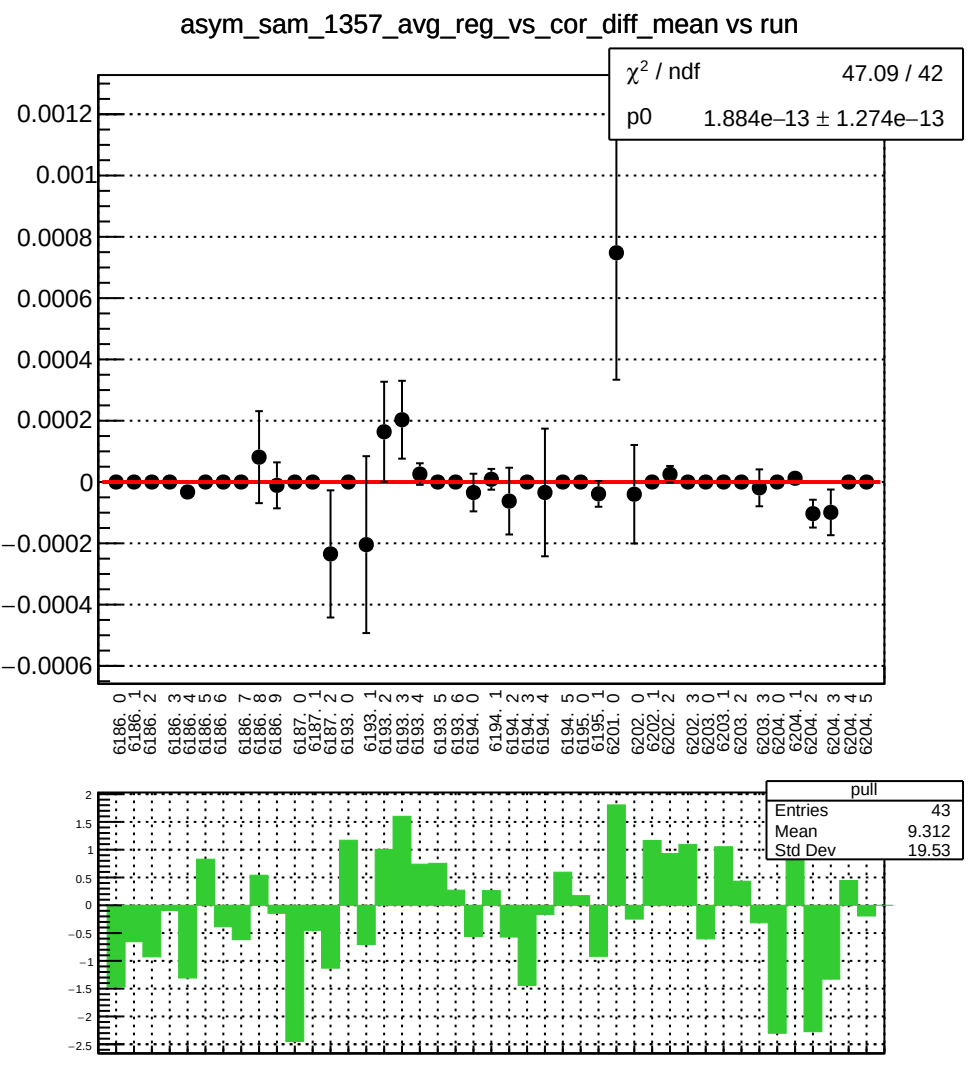

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 53.19 / 42
p0 21.84 ± 1072
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −216.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.009465
Std Dev 1.112
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

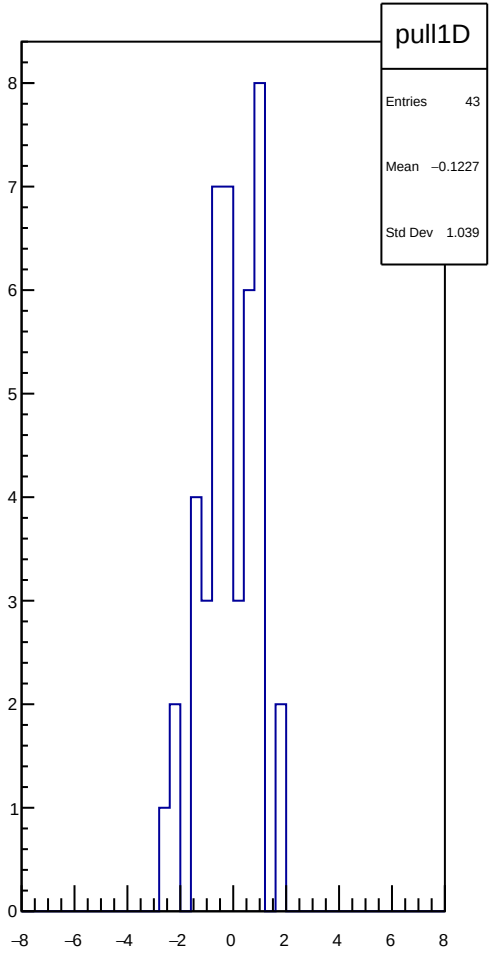

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 2711 / 42
p0 695.5 ± 0.7577
820
800
780
760
740
720
700
680
660
640
620
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

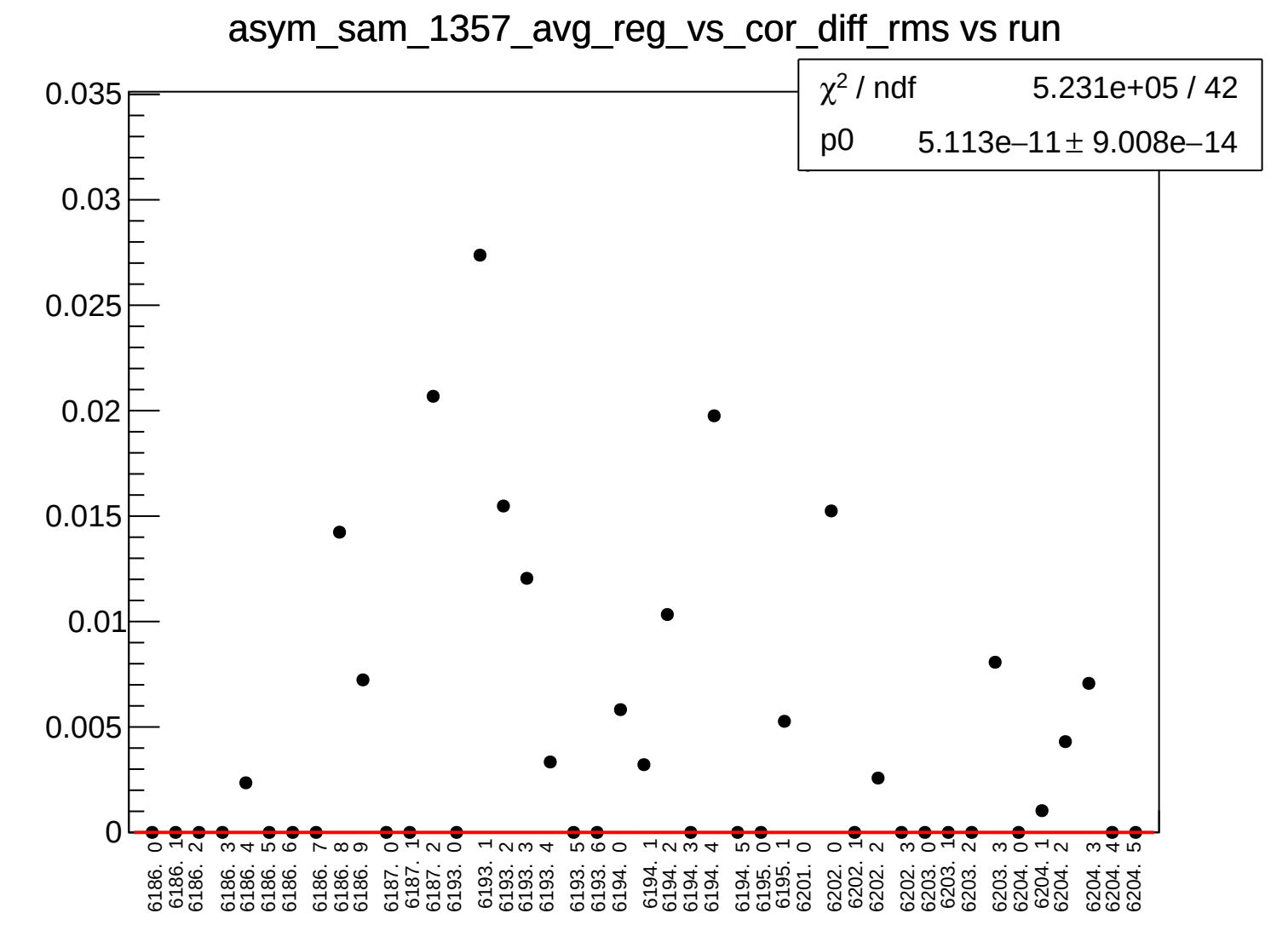

asym_sam_1357_avg_mean vs run
χ² / ndf 51.02 / 42
p0 −120.3 ± 1082
30000
20000
10000
0
−10000
−20000
−30000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −258.4
Std Dev 0
2
1
0
−1
−2

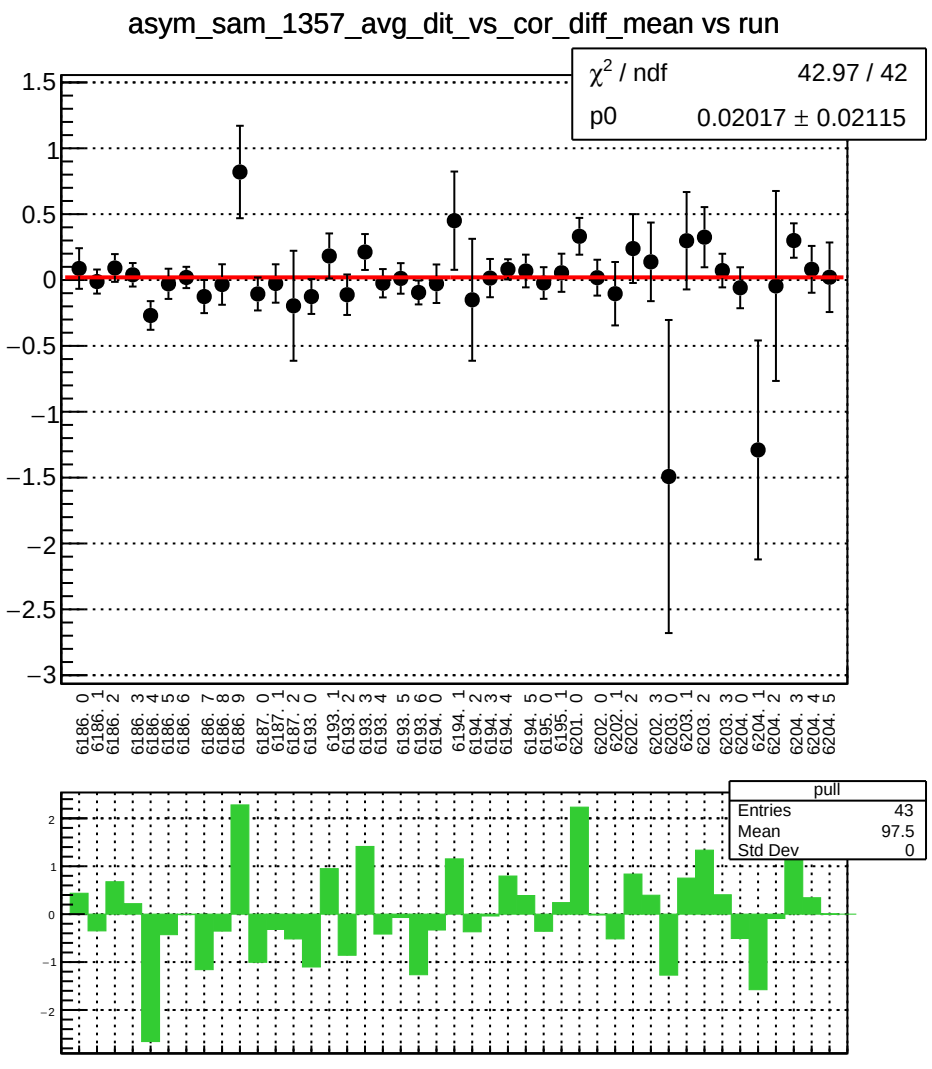

pull1D
Entries 43
Mean −0.007838
Std Dev 1.089
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

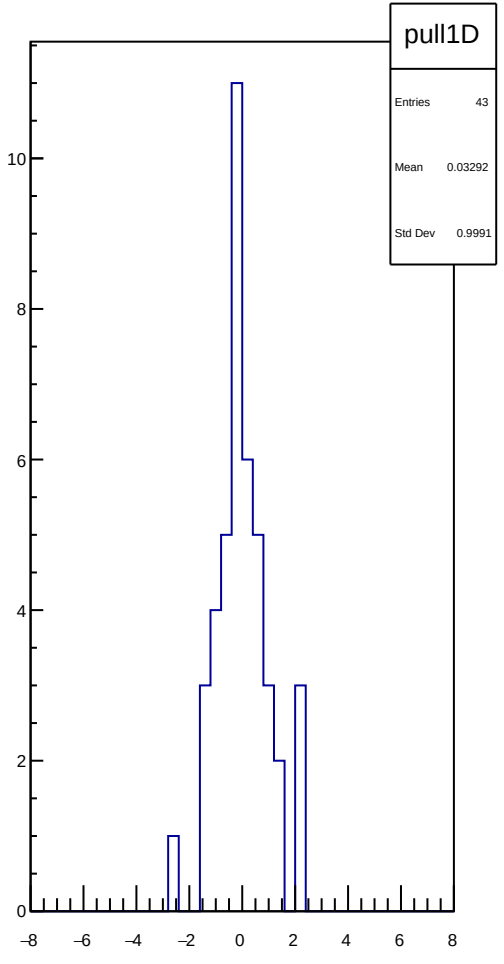

asym_sam_1357_avg_rms vs run
χ² / ndf 4045 / 42
p0 701.5 ± 0.7648
900
850
800
750
700
650
600
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

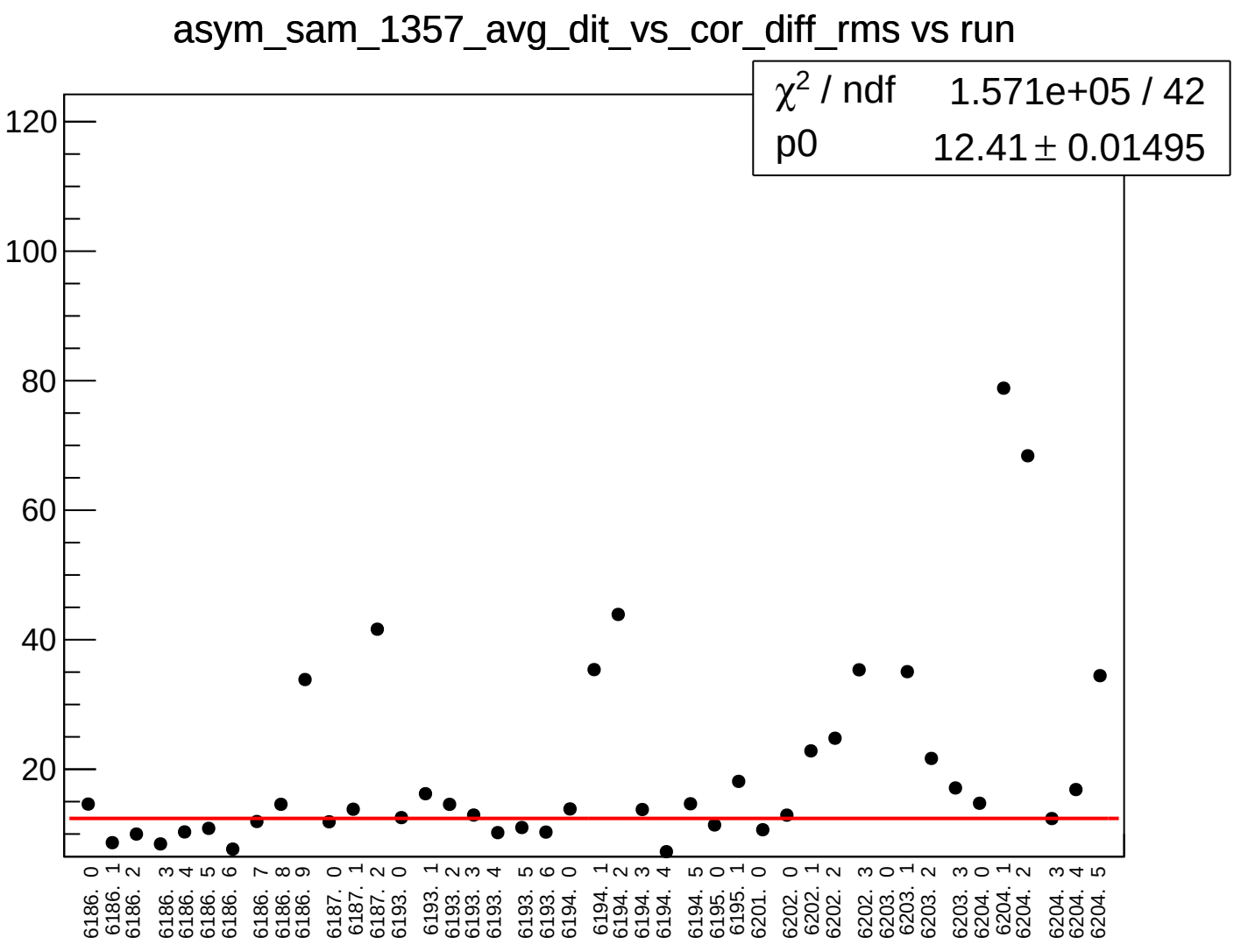

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 47.09 / 42
p0 1.884e−13 ± 1.274e−13
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 9.312
Std Dev 19.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

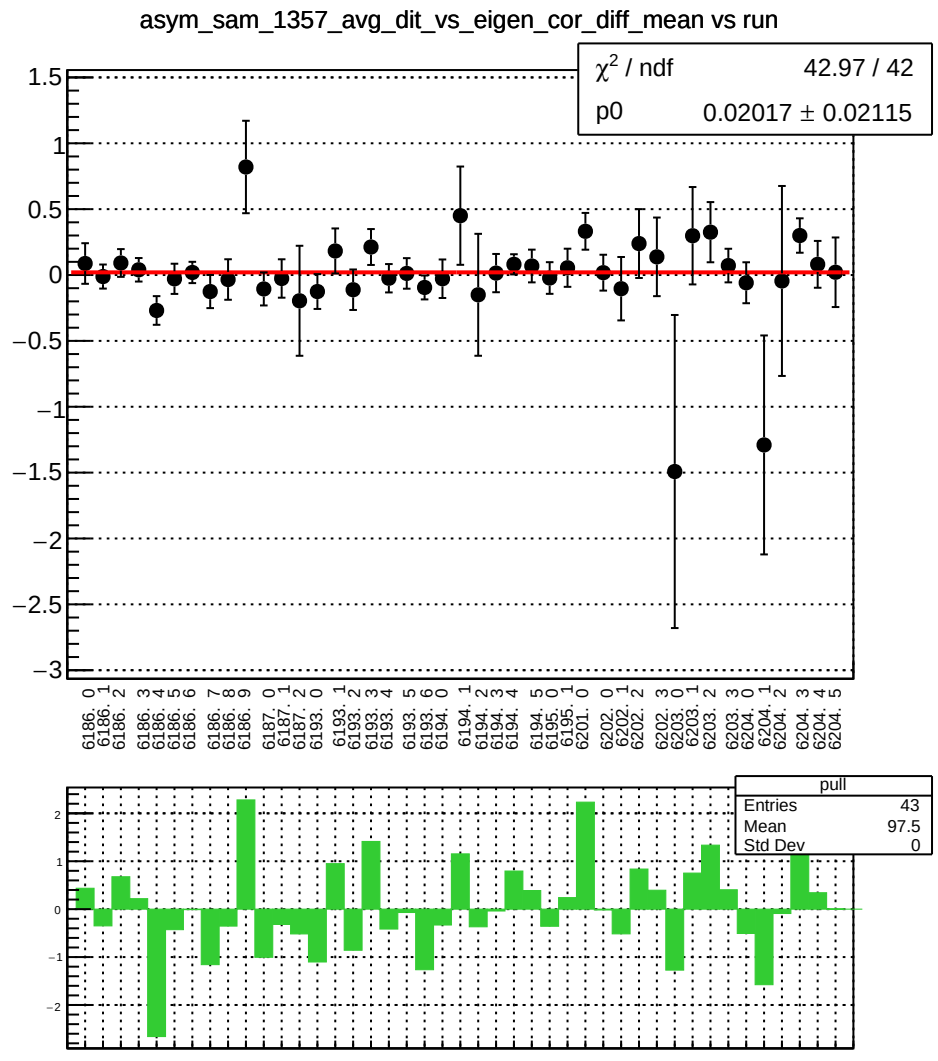

pull1D
Entries 43
Mean −0.1227
Std Dev 1.039
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

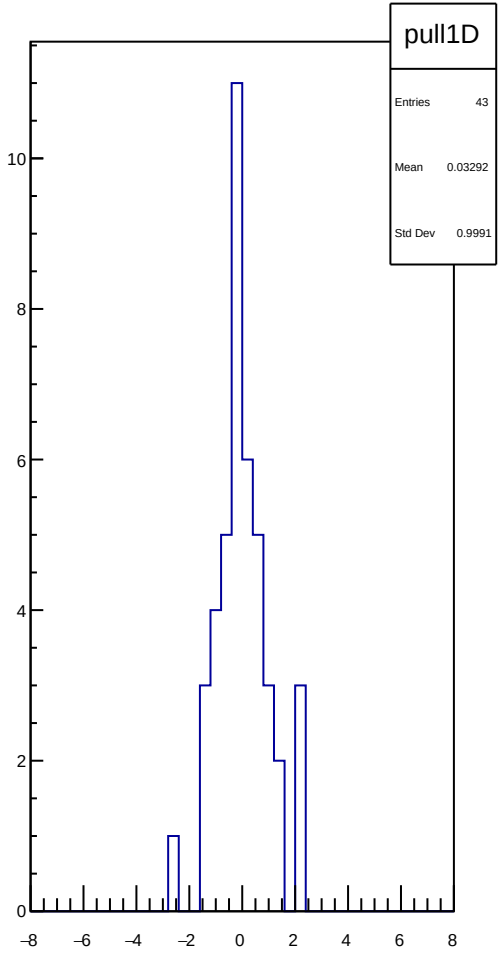

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 5.231e+05 / 42
p0 5.113e−11 ± 9.008e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

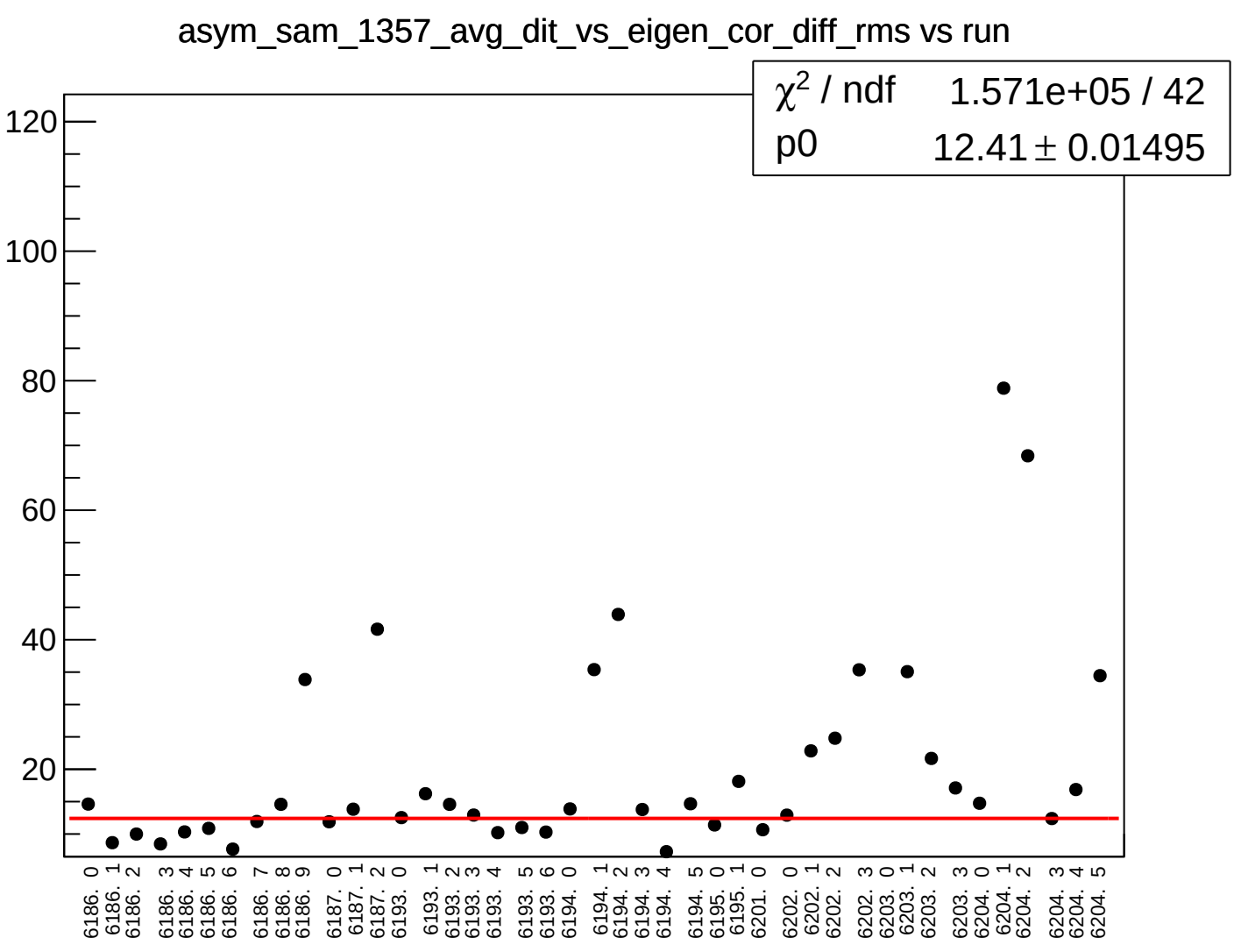

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 42.97 / 42
p0 0.02017 ± 0.02115
pull
Entries 43
Mean 97.5
Std Dev 0

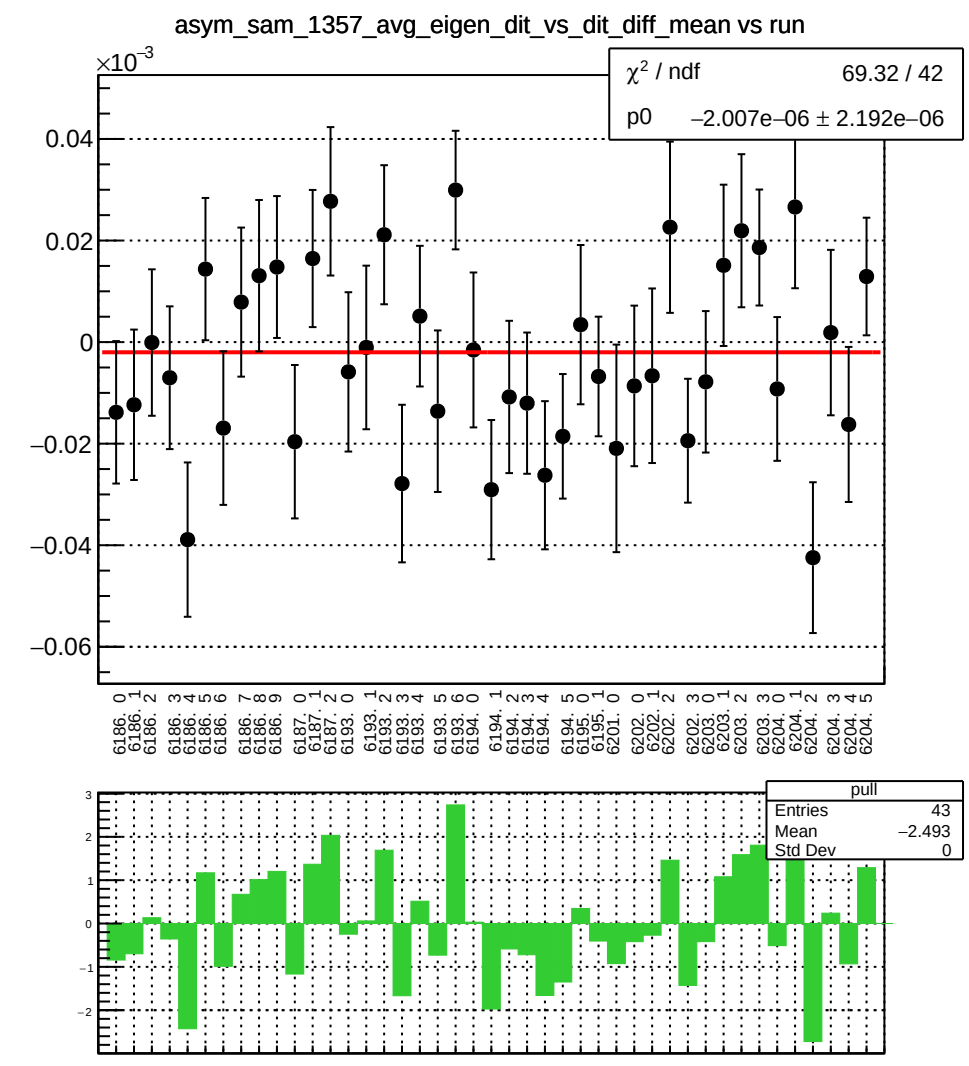

pull1D
Entries 43
Mean 0.03292
Std Dev 0.9991

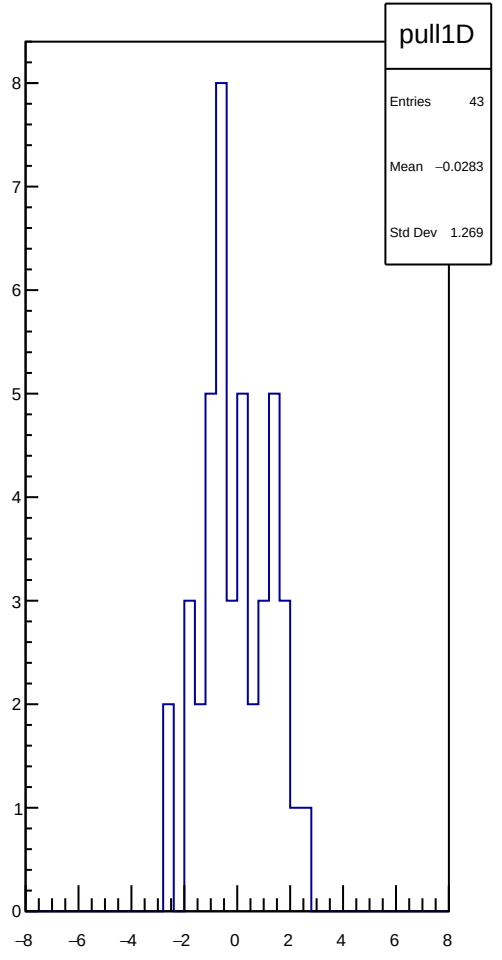

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.571e+05 / 42
p0 12.41 ± 0.01495
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

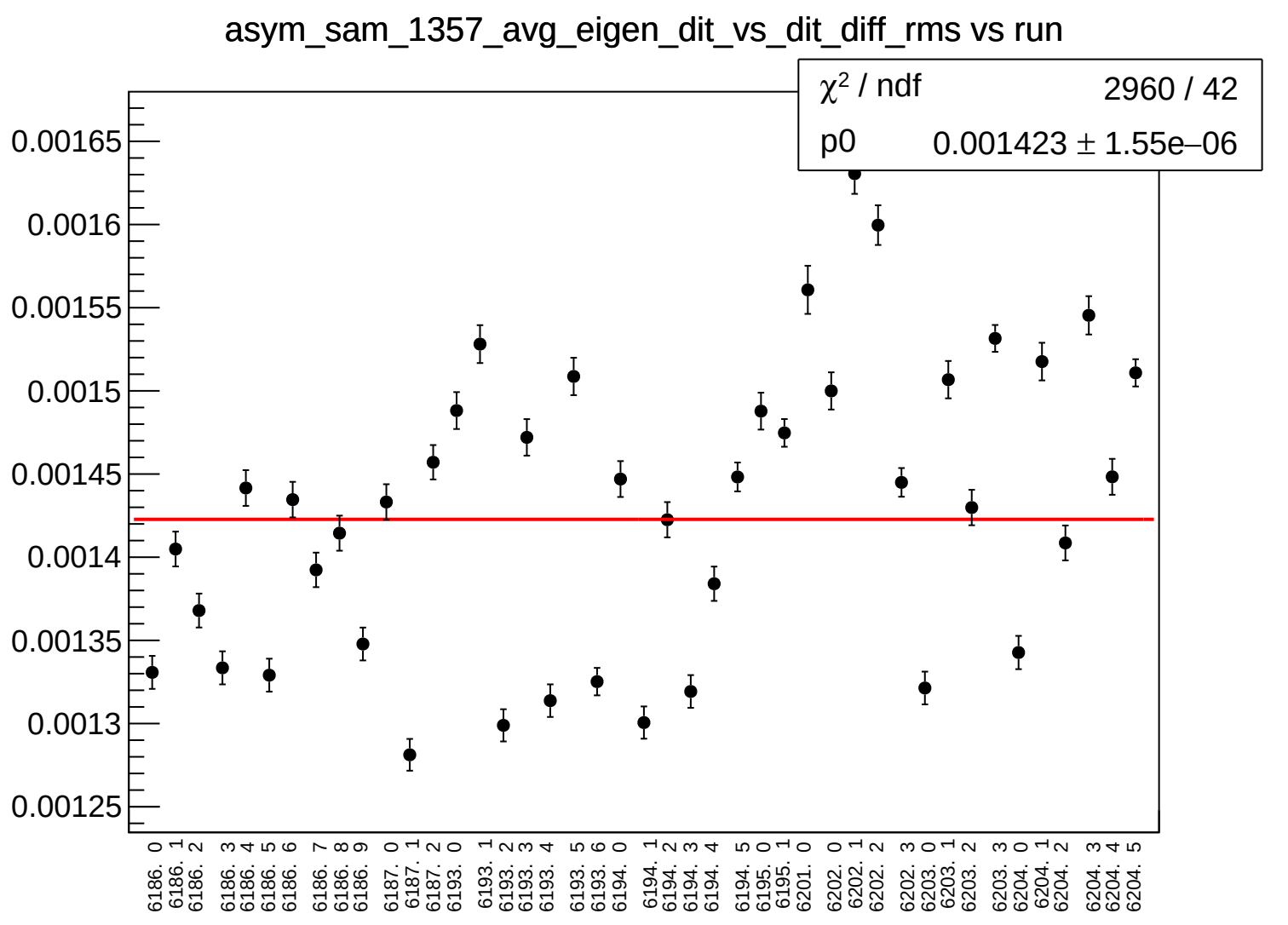

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.97 / 42
p0 0.02017 ± 0.02115
pull
Entries 43
Mean 97.5
Std Dev 0

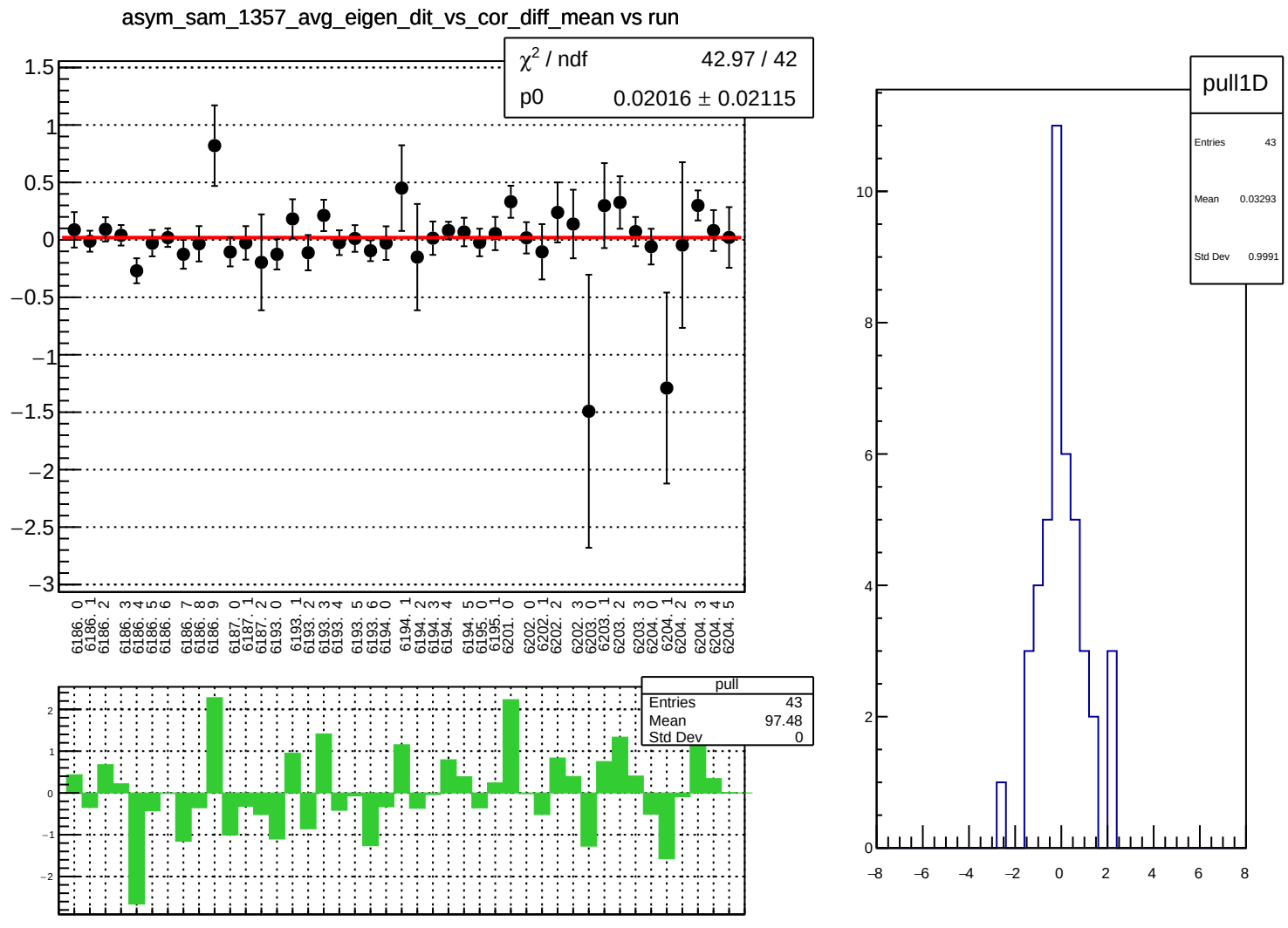

pull1D
Entries 43
Mean 0.03292
Std Dev 0.9991

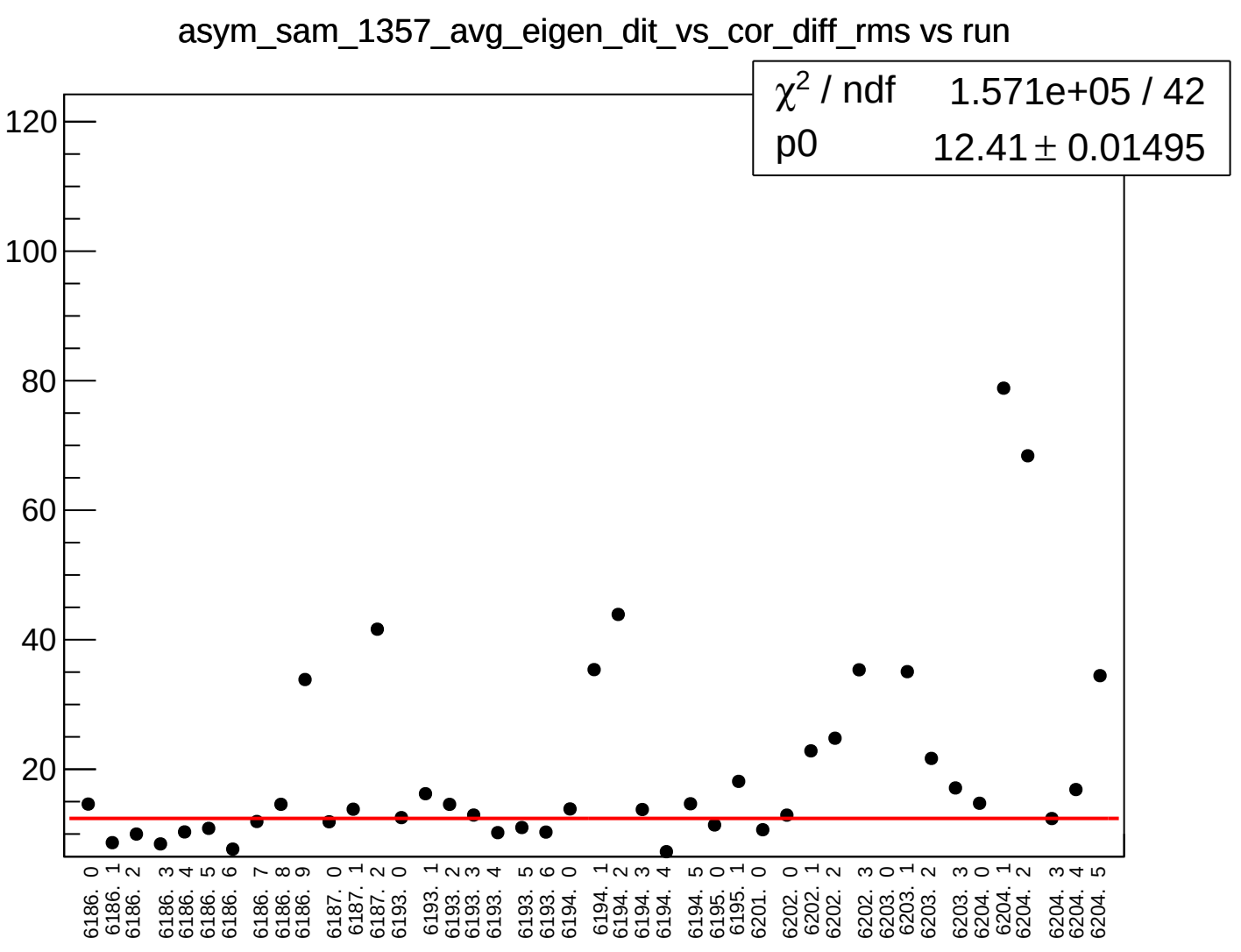

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.571e+05 / 42
p0 12.41 ± 0.01495
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

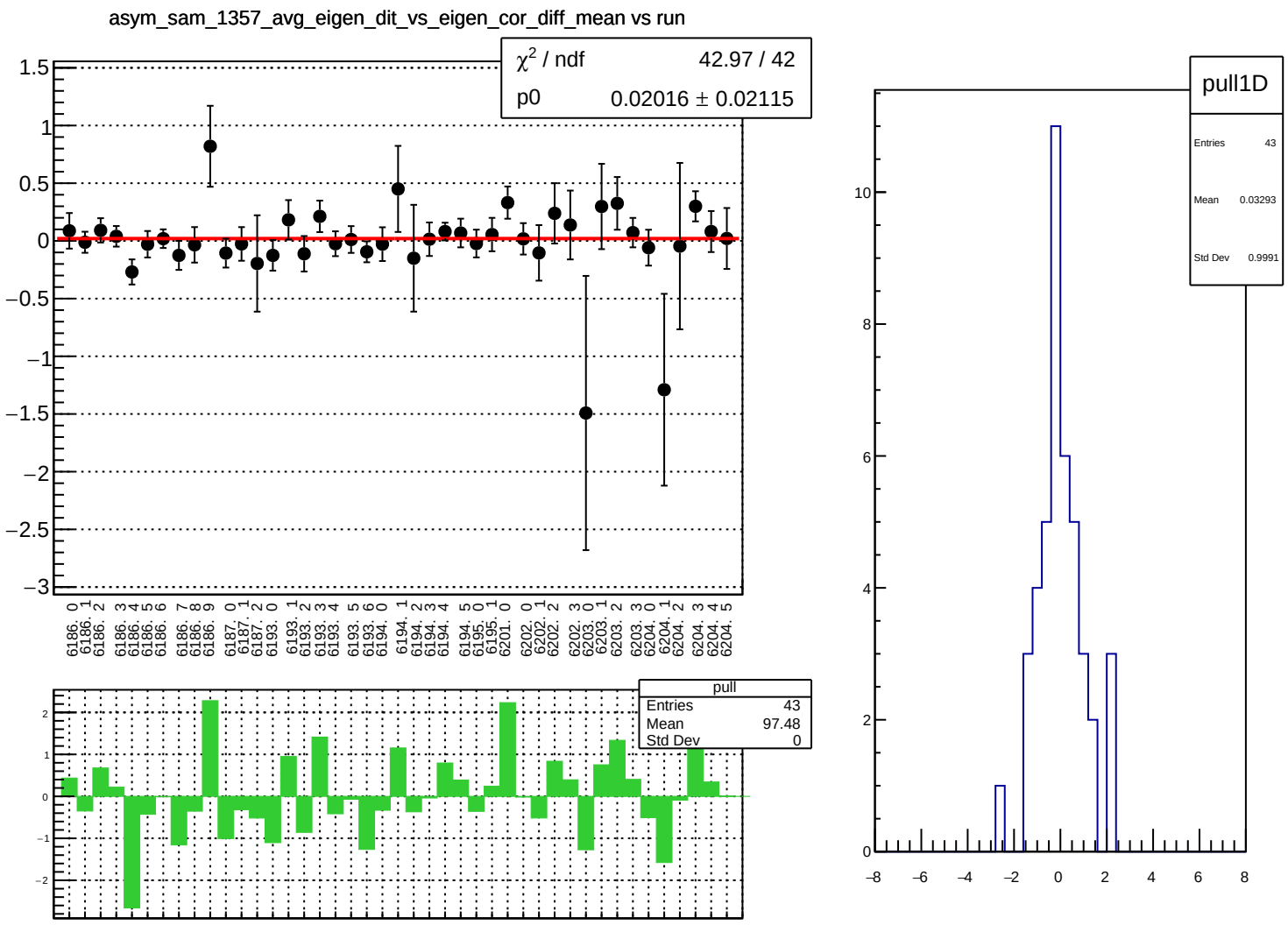

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.32 / 42
p0 −2.007e−06 ± 2.192e−06
0.04
0.02
0
−0.02
−0.04
−0.06
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −2.493
Std Dev 0
3
2
1
0
−1
−2

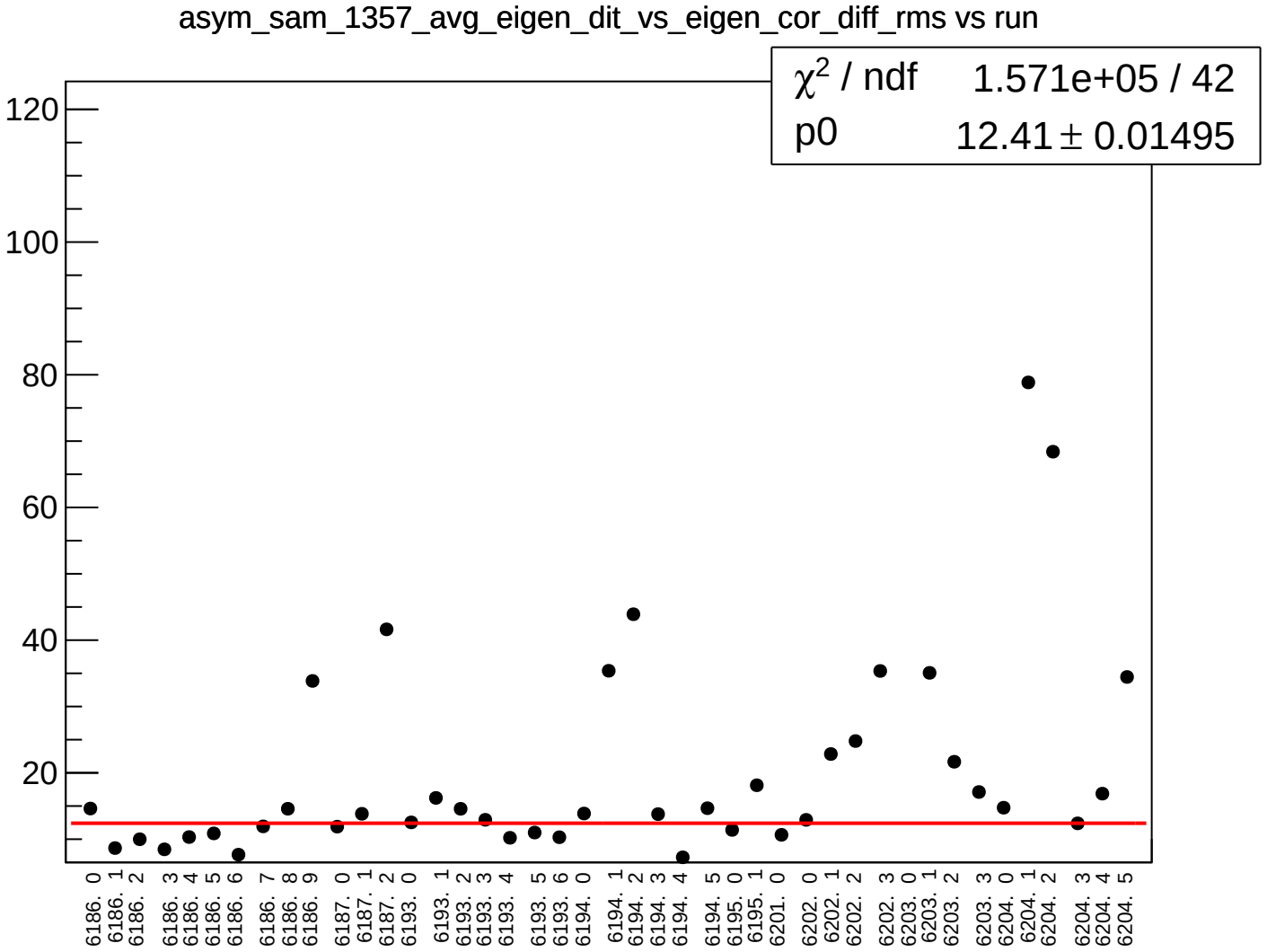

pull1D
Entries 43
Mean −0.0283
Std Dev 1.269
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

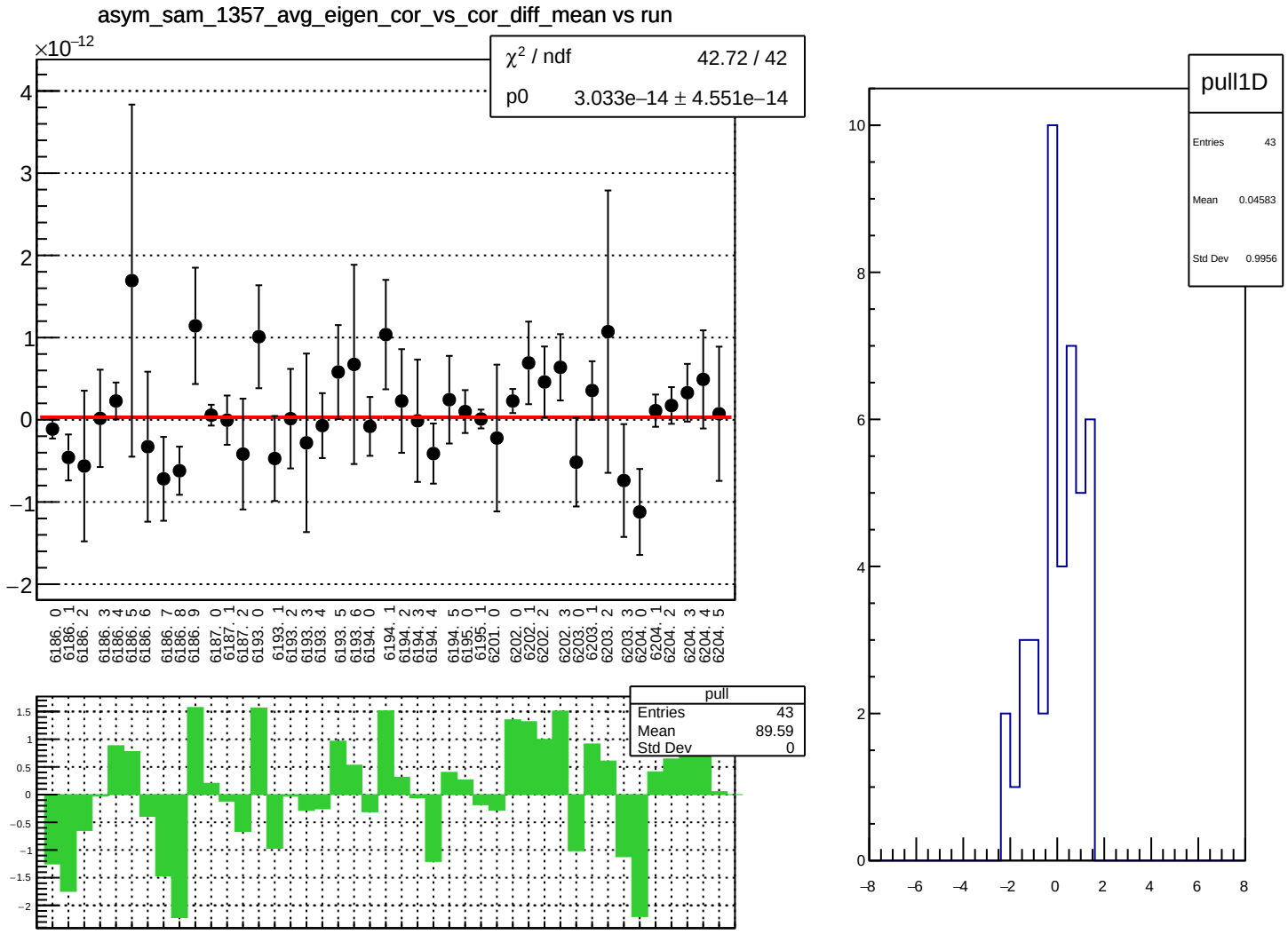

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2960 / 42
p0 0.001423 ± 1.55e−06
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

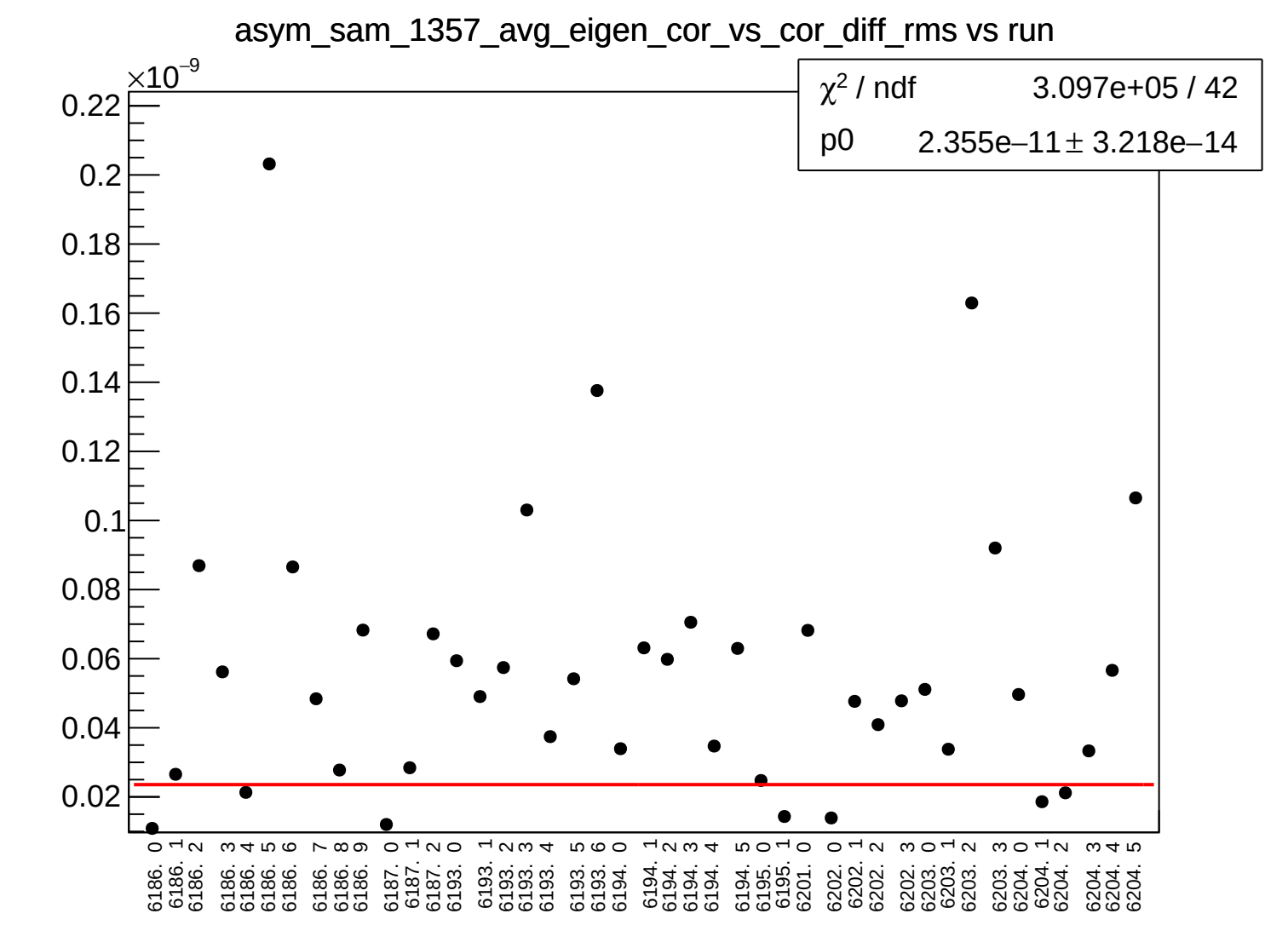

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 42.97 / 42
p0 0.02016 ± 0.02115
pull
Entries 43
Mean 97.48
Std Dev 0
pull1D
Entries 43
Mean 0.03293
Std Dev 0.9991

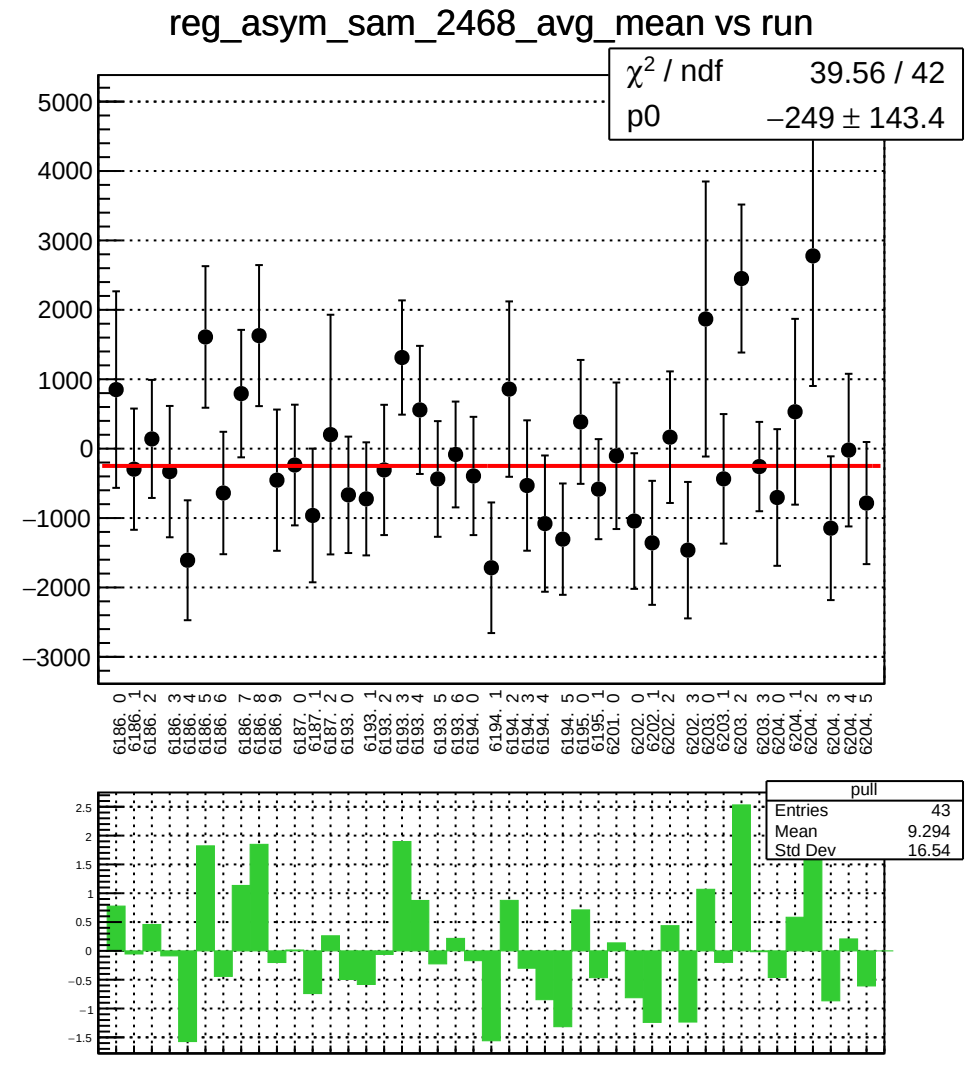

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.571e+05 / 42
p0 12.41 ± 0.01495
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

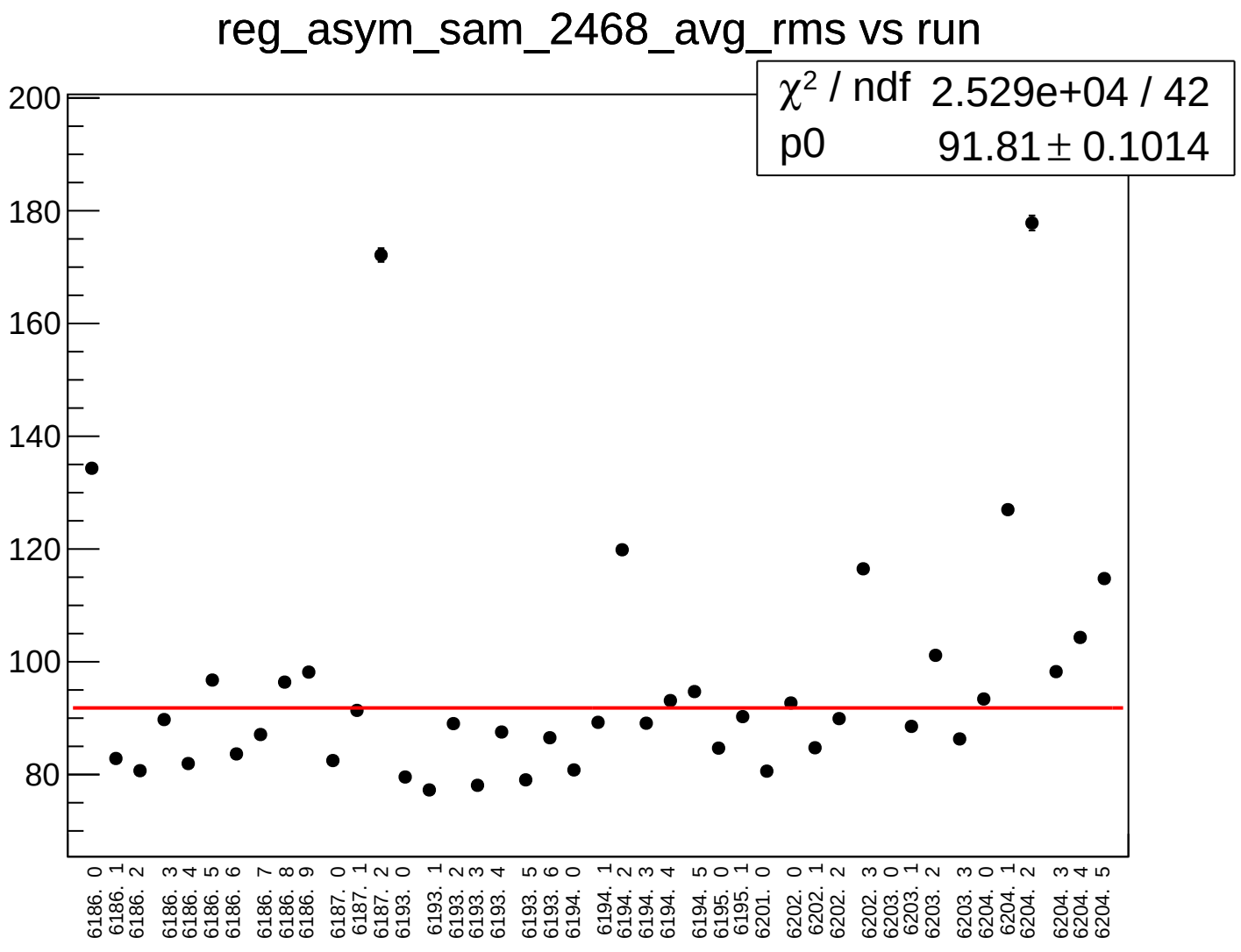

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 42.97 / 42
p0 0.02016 ± 0.02115
pull
Entries 43
Mean 97.48
Std Dev 0
pull1D
Entries 43
Mean 0.03293
Std Dev 0.9991

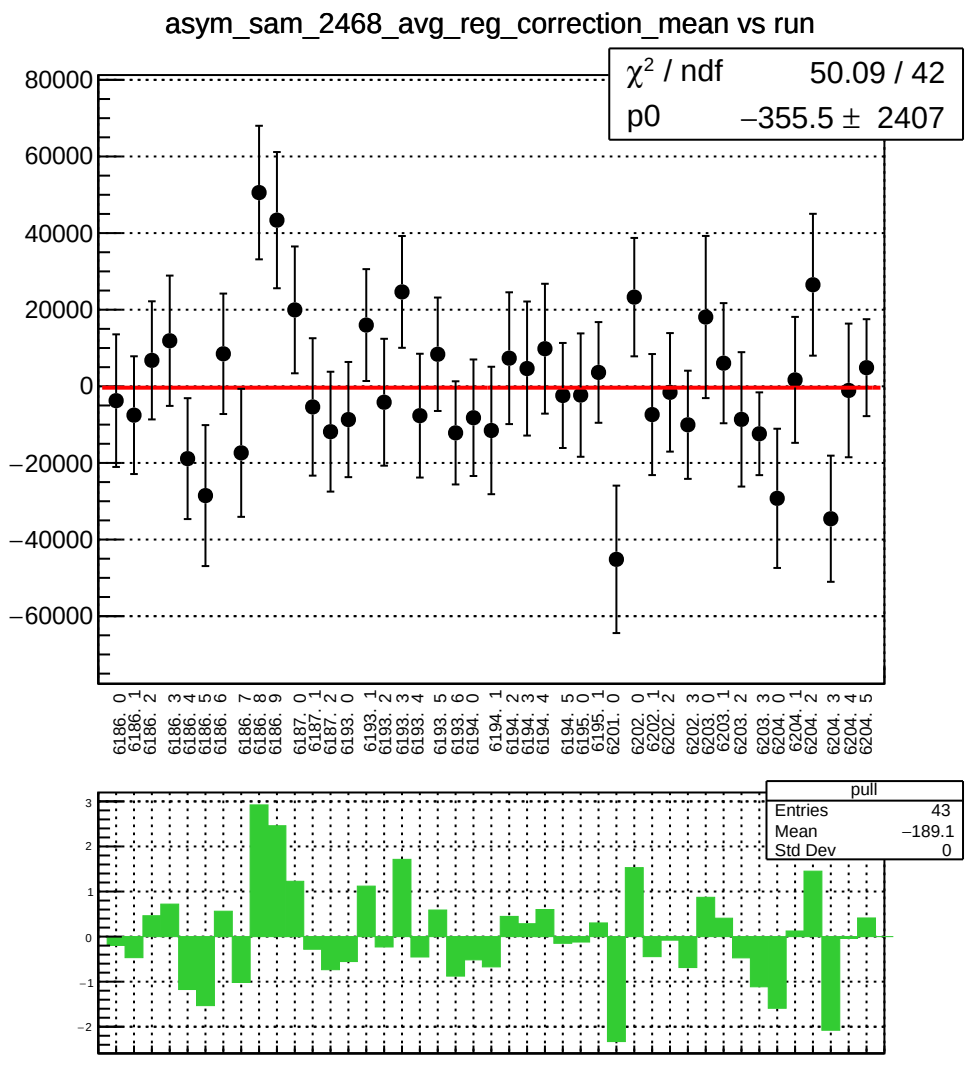

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.571e+05 / 42
p0 12.41 ± 0.01495
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

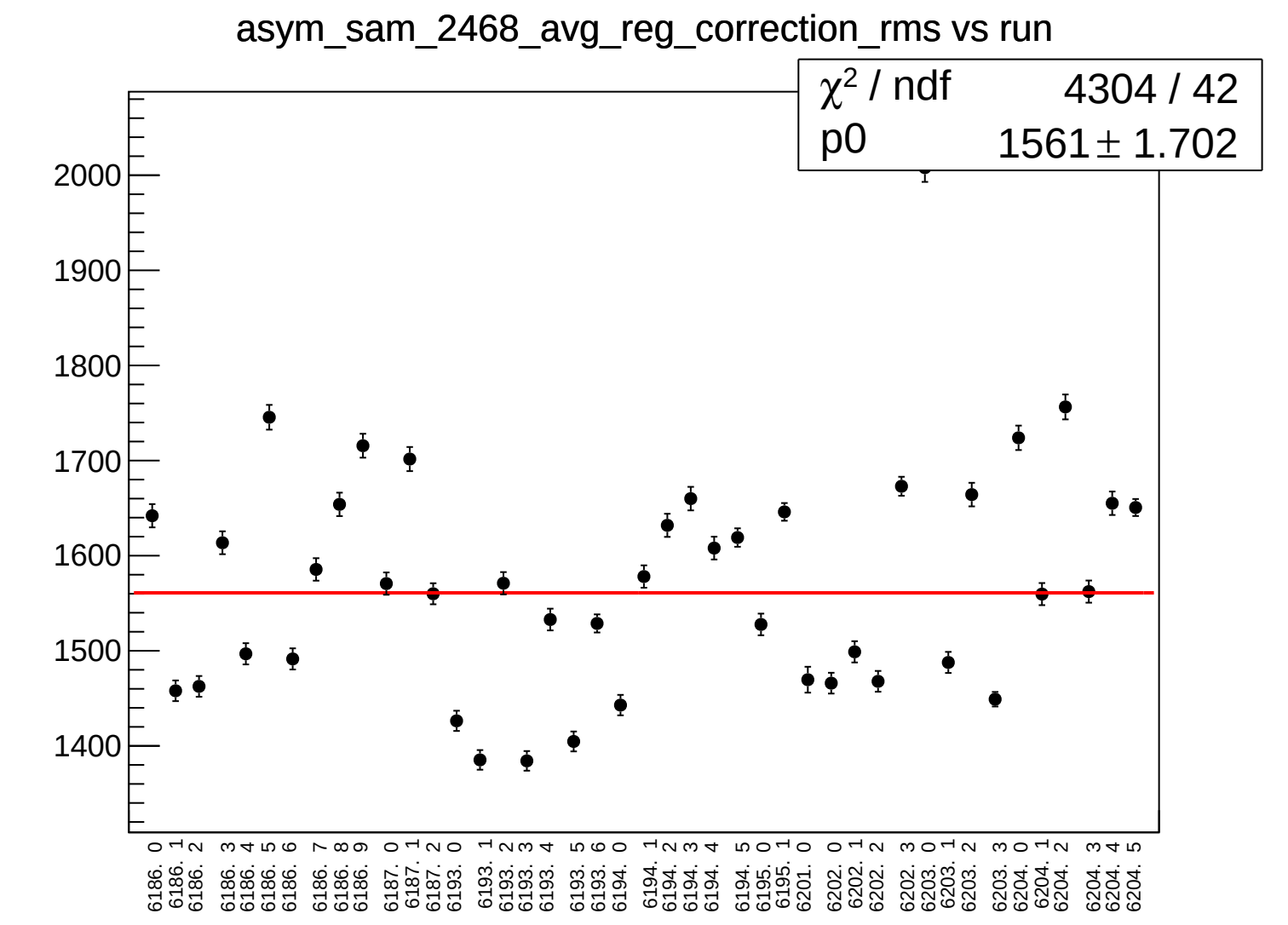

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 42.72 / 42
p0 3.033e−14 ± 4.551e−14
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 89.59
Std Dev 0
pull1D
Entries 43
Mean 0.04583
Std Dev 0.9956

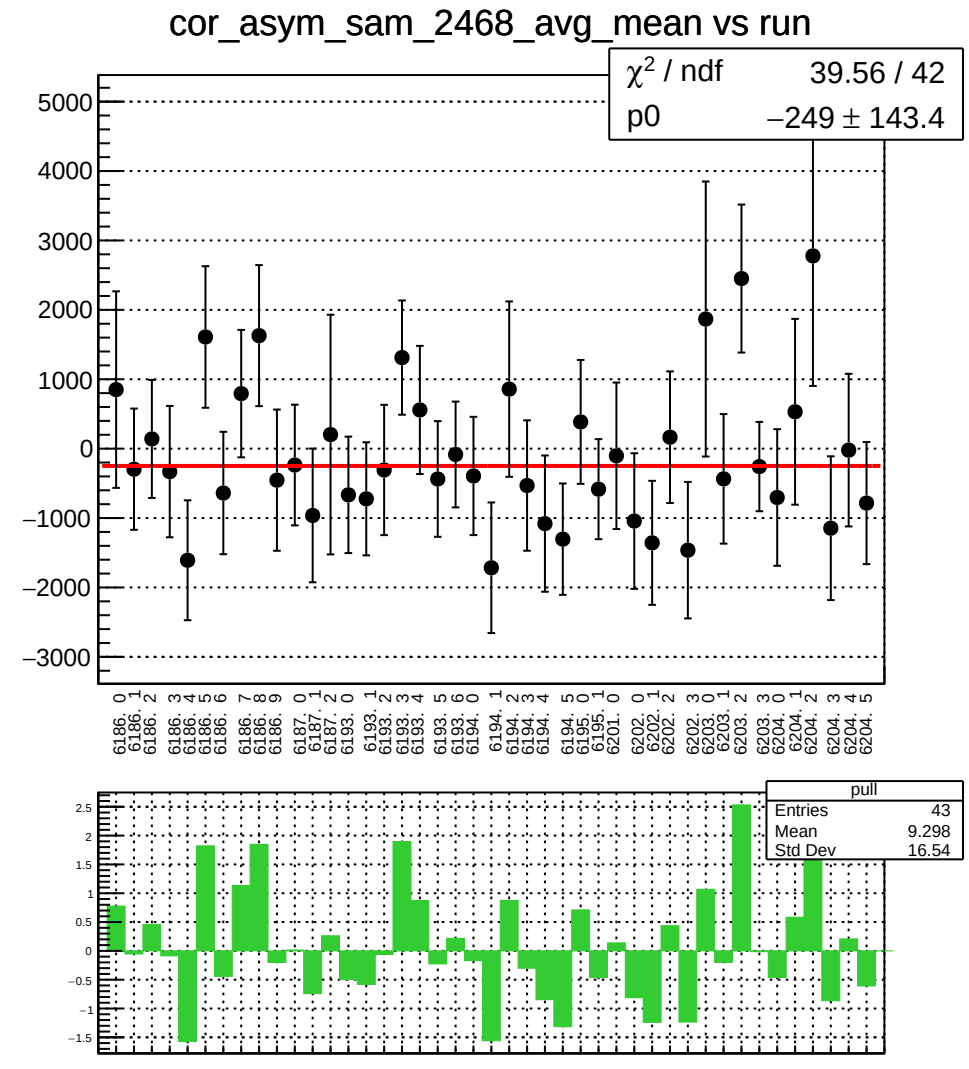

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.097e+05 / 42
p0 2.355e−11 ± 3.218e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

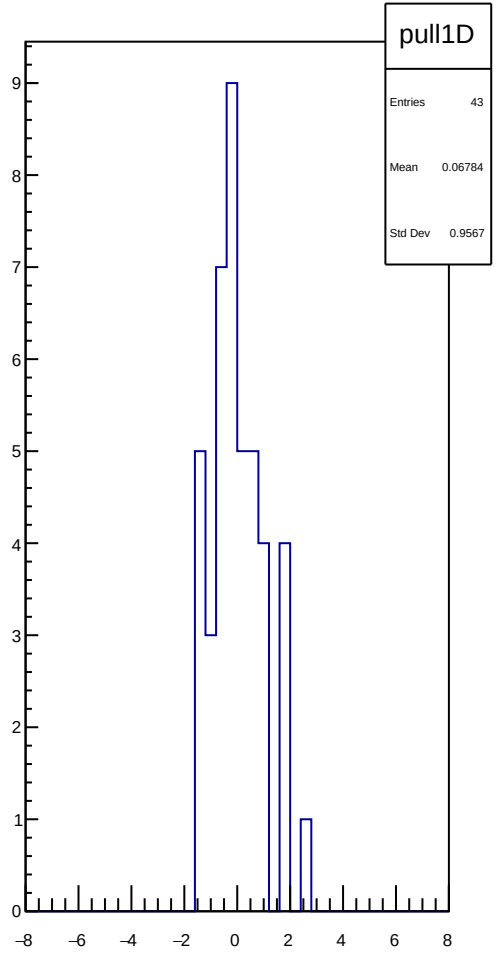

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 39.56 / 42
p0 −249 ± 143.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 9.294
Std Dev 16.54
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.06784
Std Dev 0.9568
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

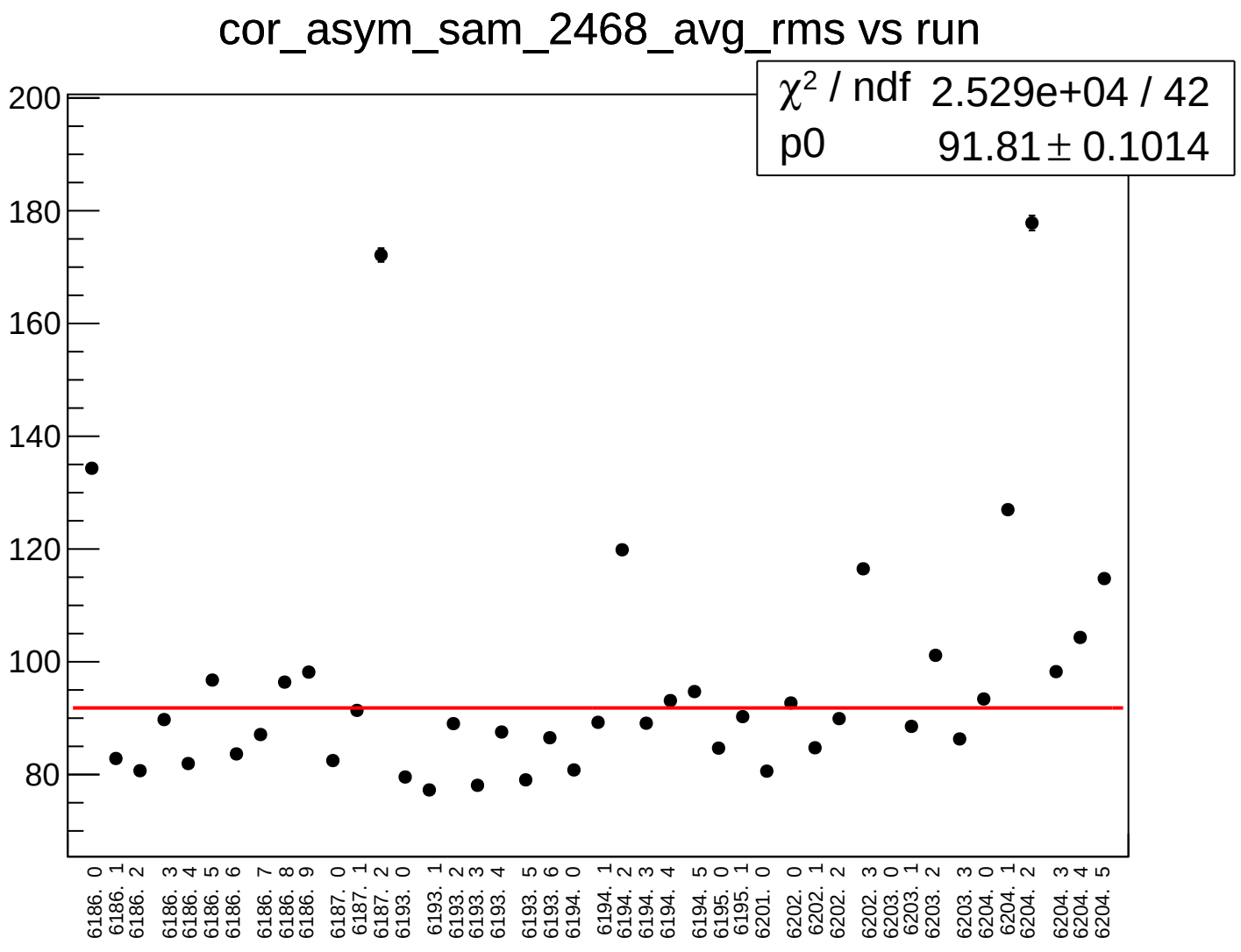

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2.529e+04 / 42
p0 91.81 ± 0.1014
200
180
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

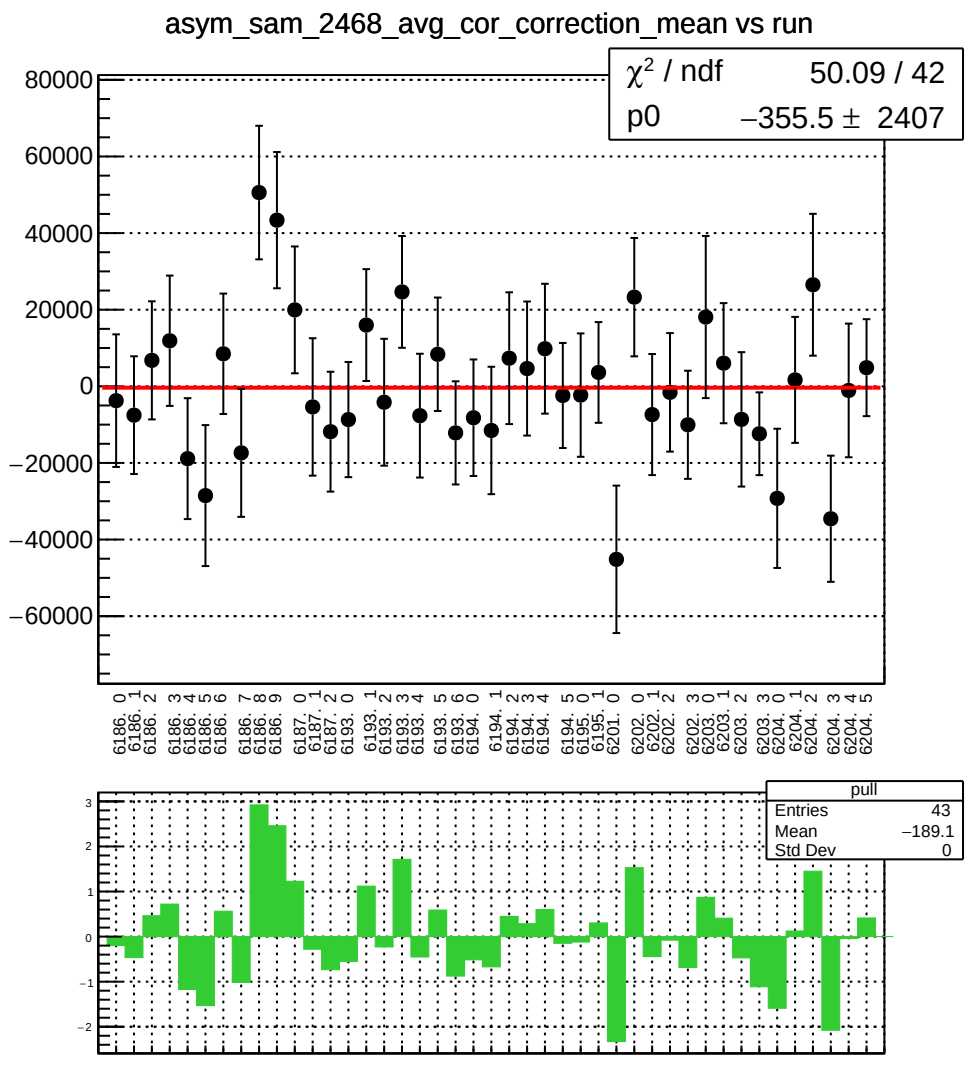

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 50.09 / 42
p0 −355.5 ± 2407
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −189.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.009634
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

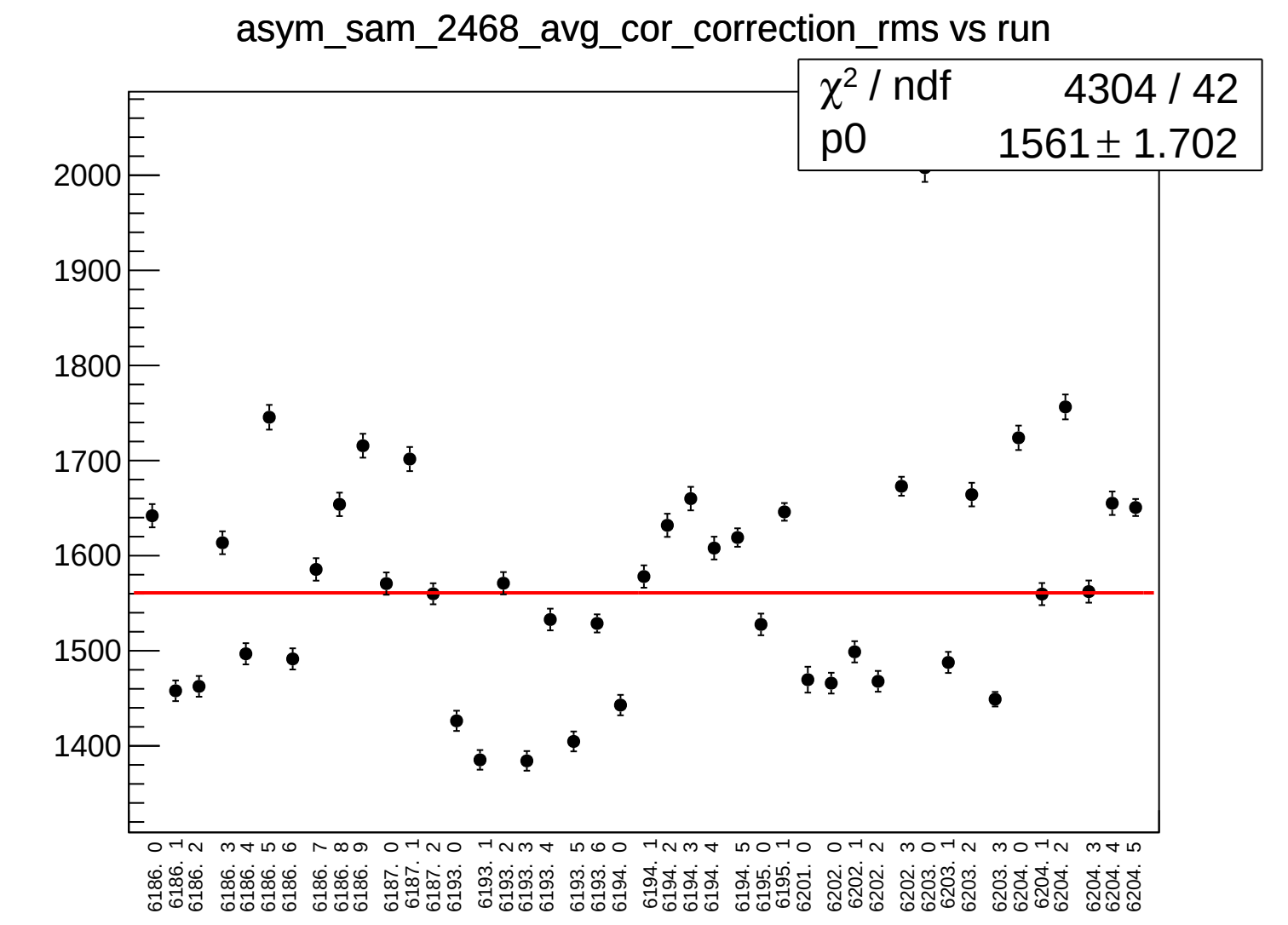

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 4304 / 42
p0 1561 ± 1.702
2000
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

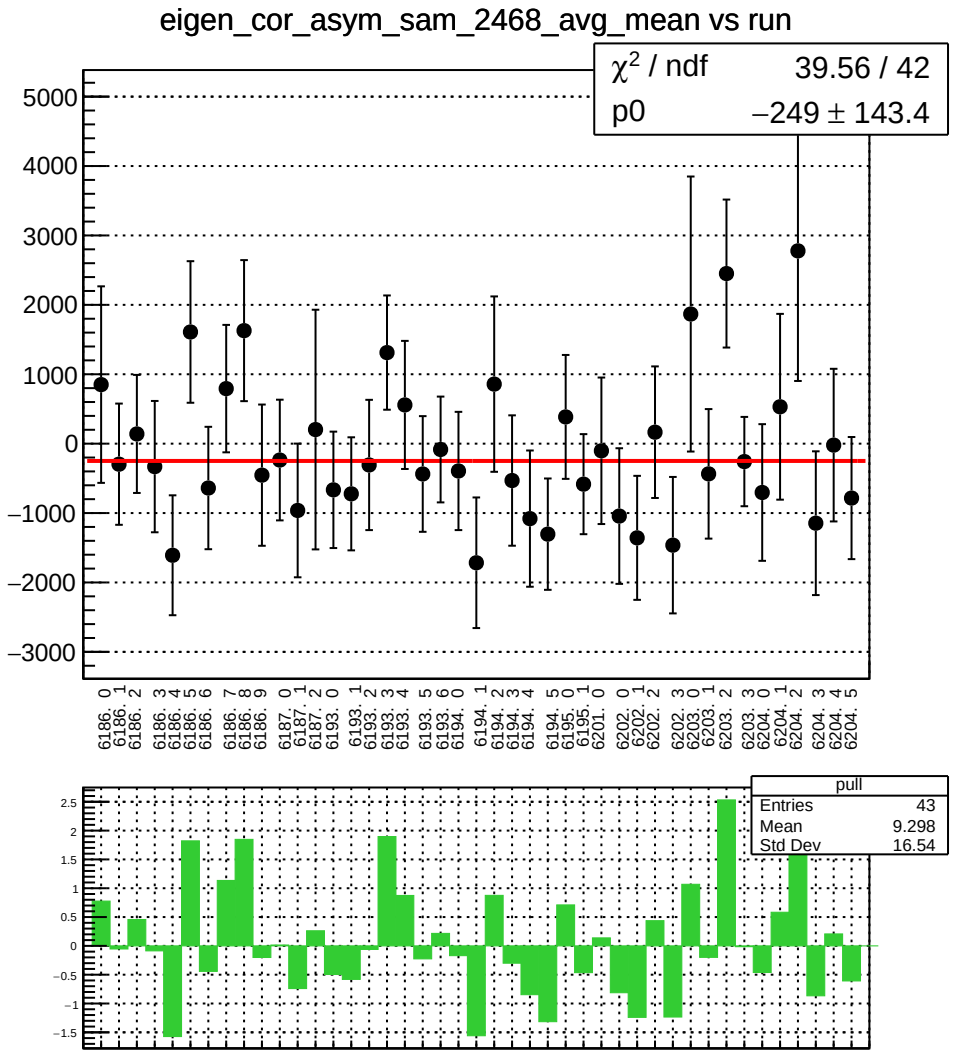

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 39.56 / 42
p0 −249 ± 143.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 9.298
Std Dev 16.54
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

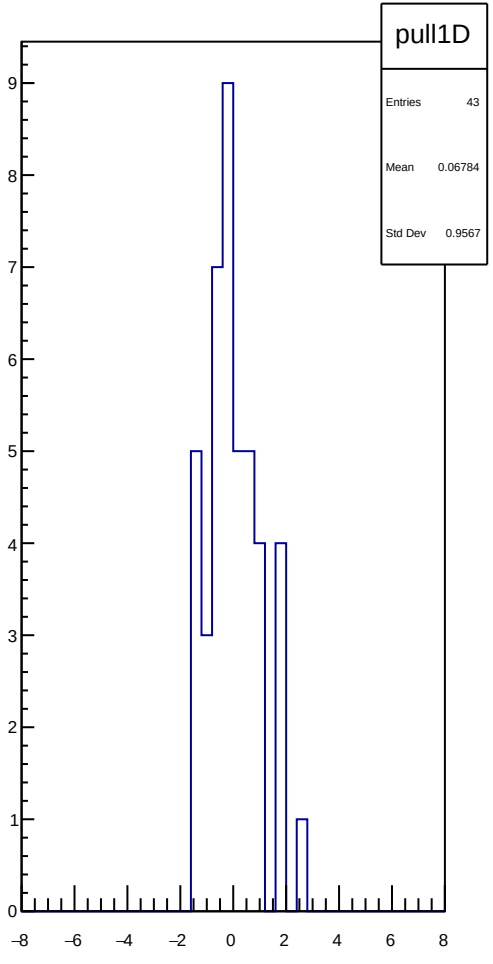

pull1D
Entries 43
Mean 0.06784
Std Dev 0.9567
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

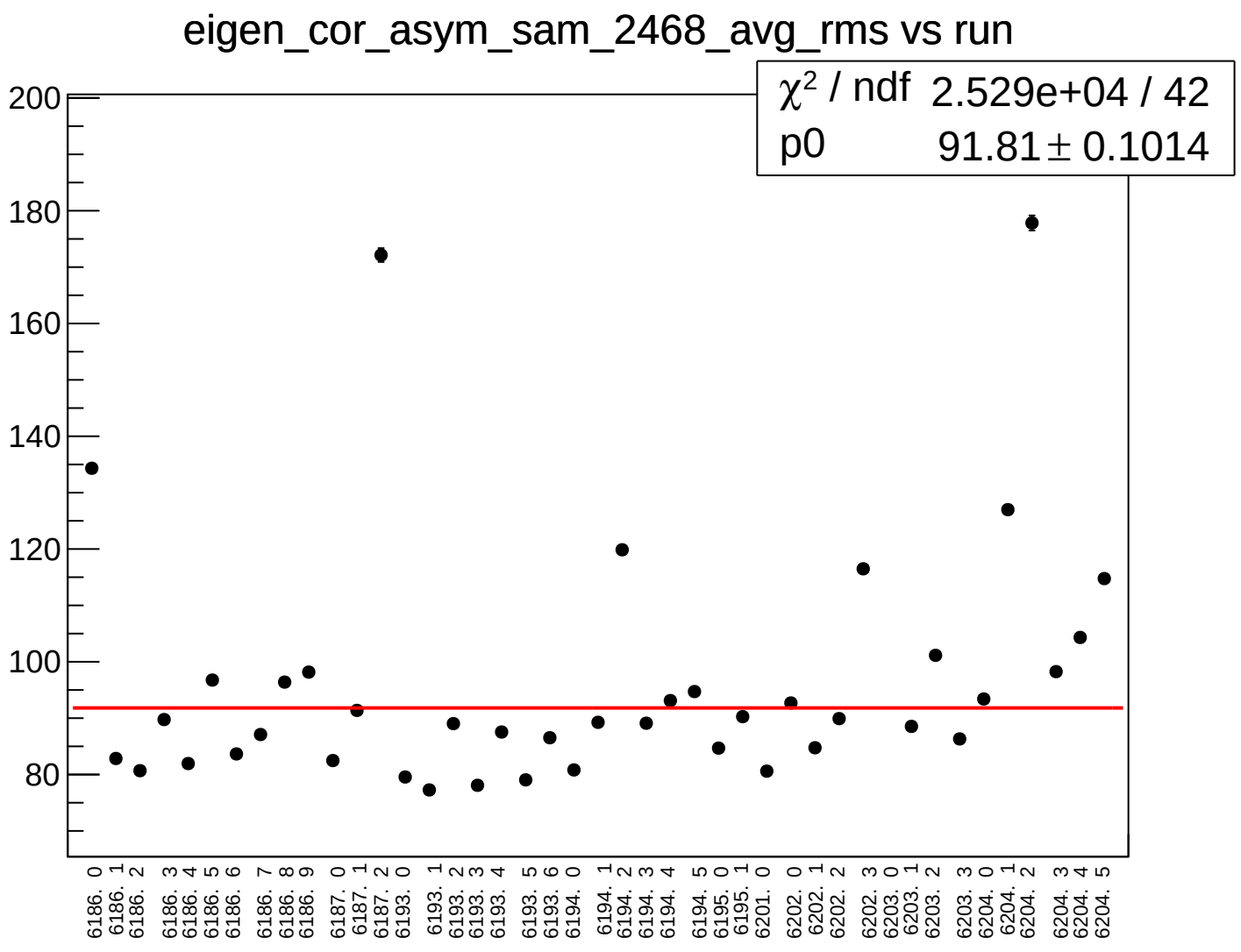

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.529e+04 / 42
p0 91.81 ± 0.1014
200
180
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

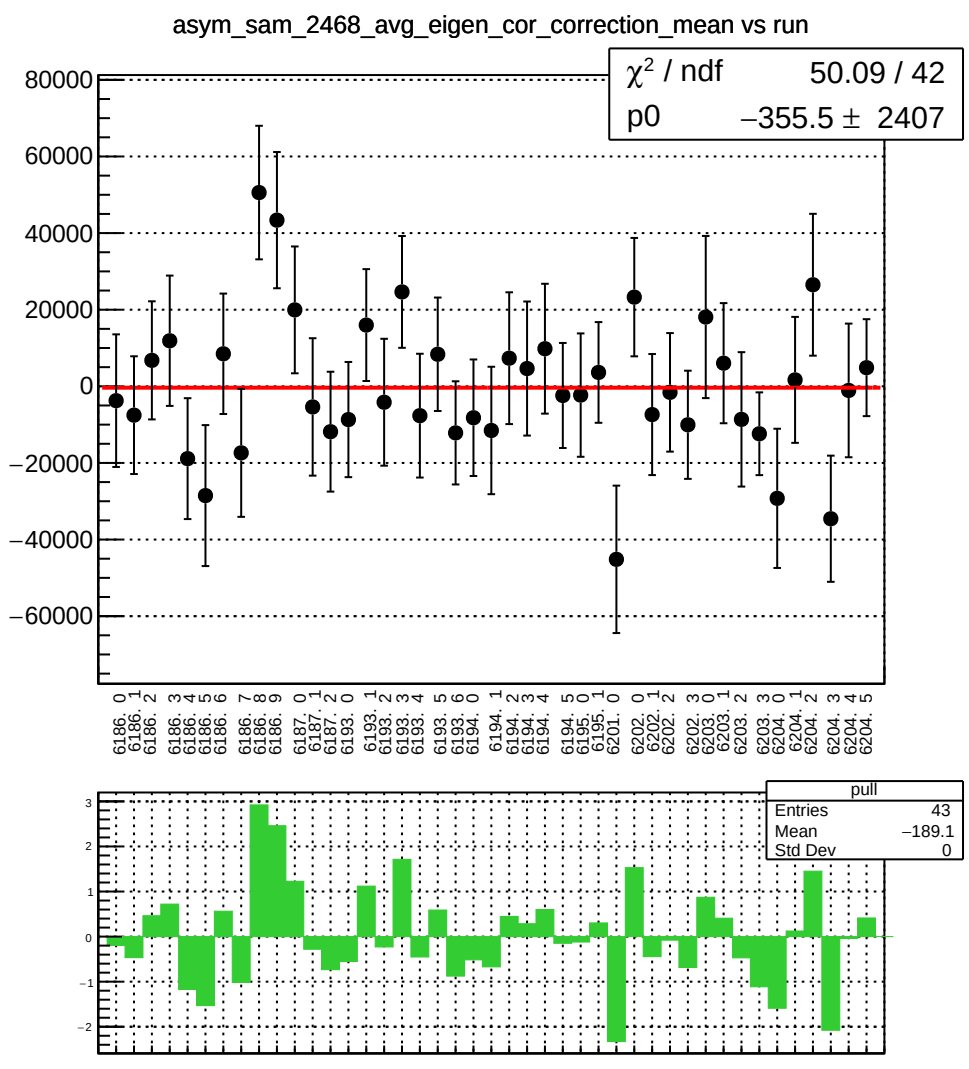

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 50.09 / 42
p0 −355.5 ± 2407
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −189.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.009634
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

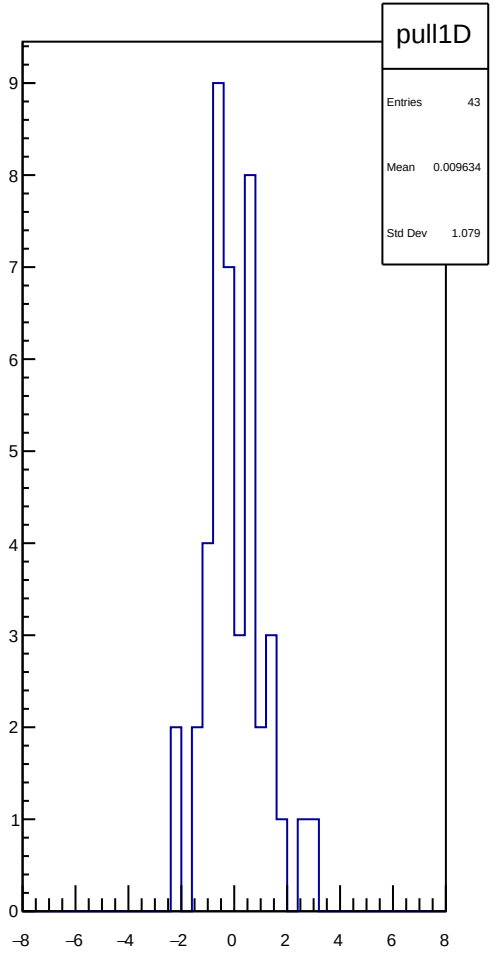

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 4304 / 42
p0 1561 ± 1.702
2000
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

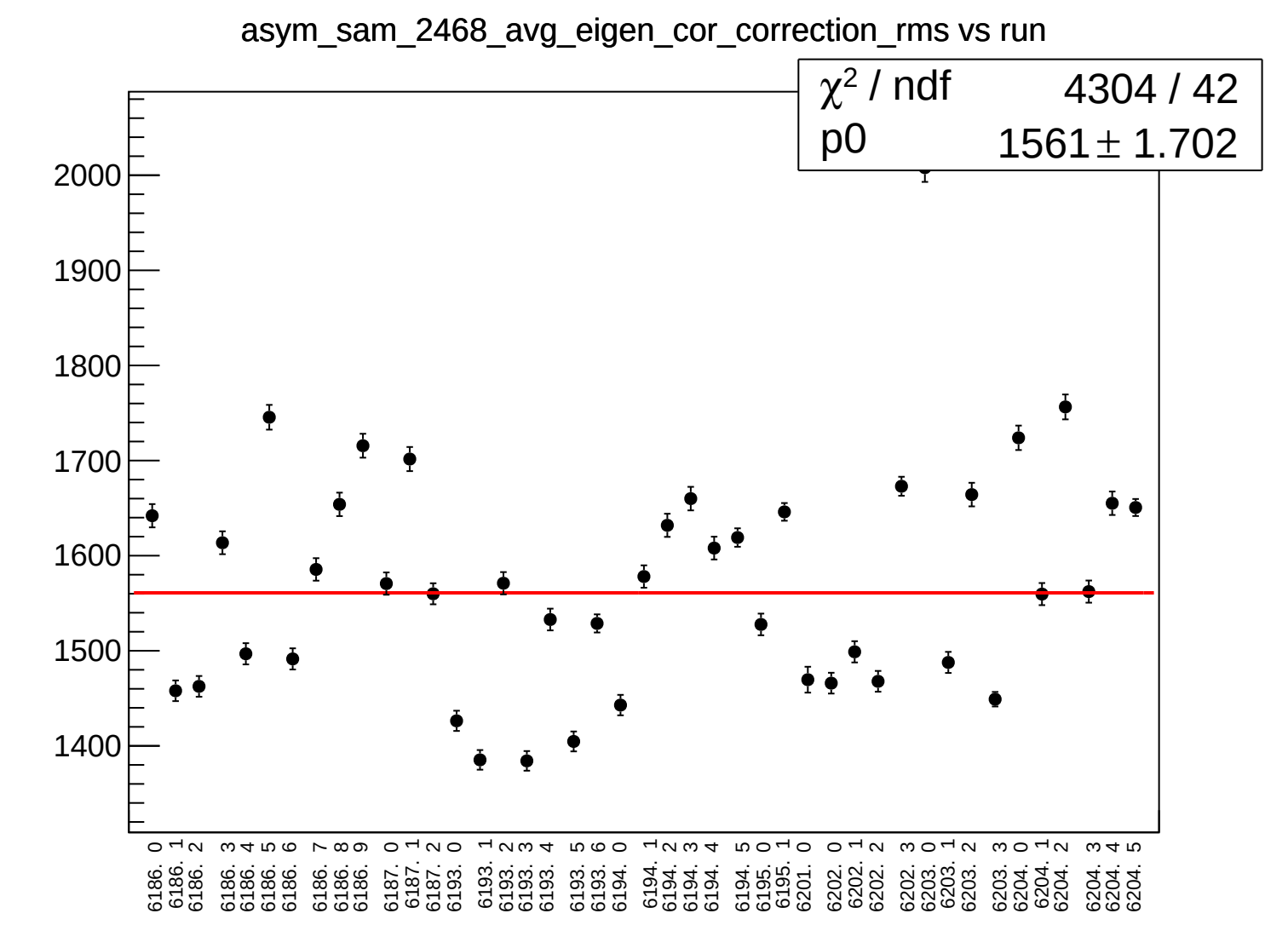

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 39.56 / 42
p0 −249 ± 143.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 9.298
Std Dev 16.54
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

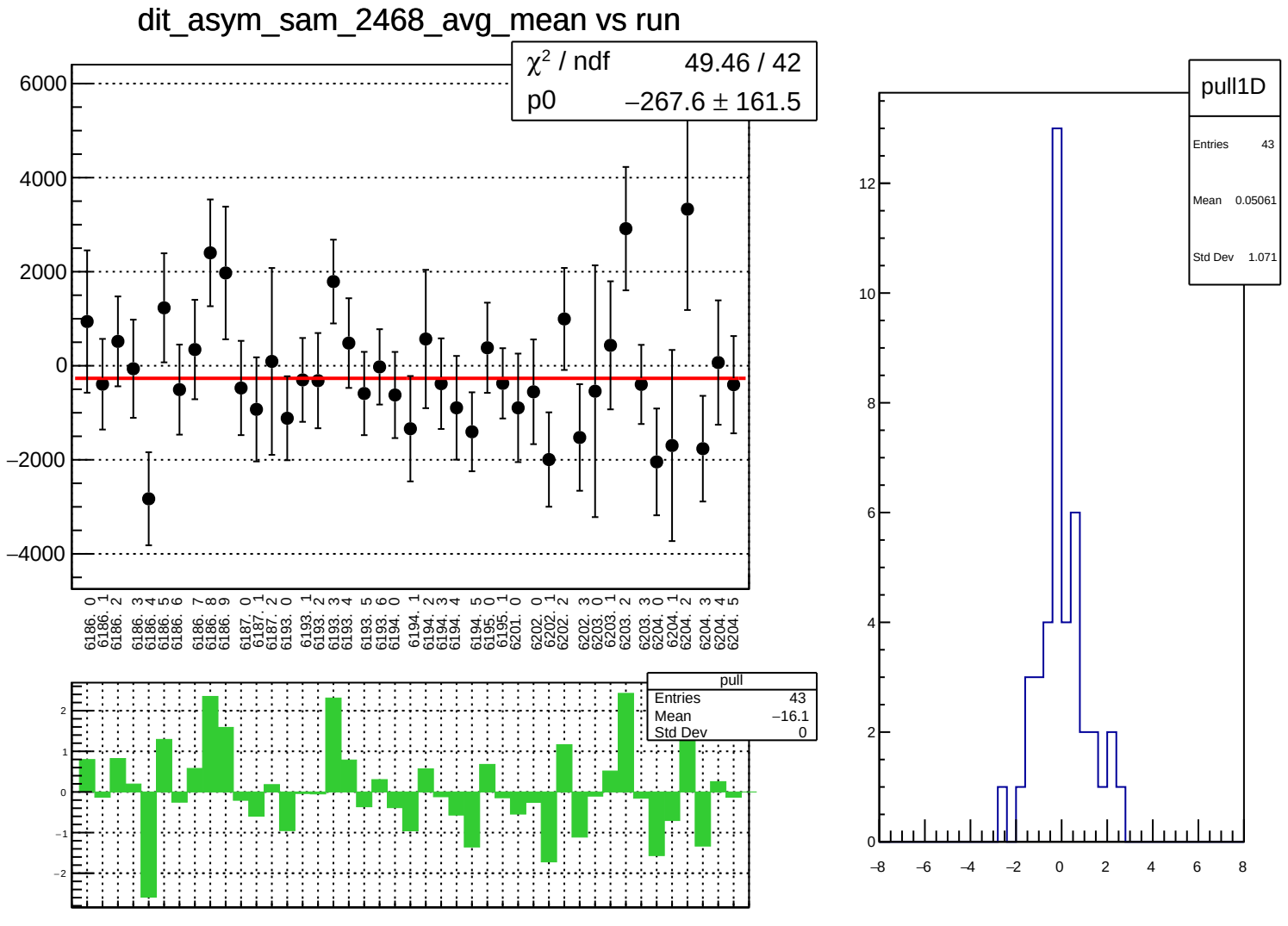

pull1D
Entries 43
Mean 0.06784
Std Dev 0.9567
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

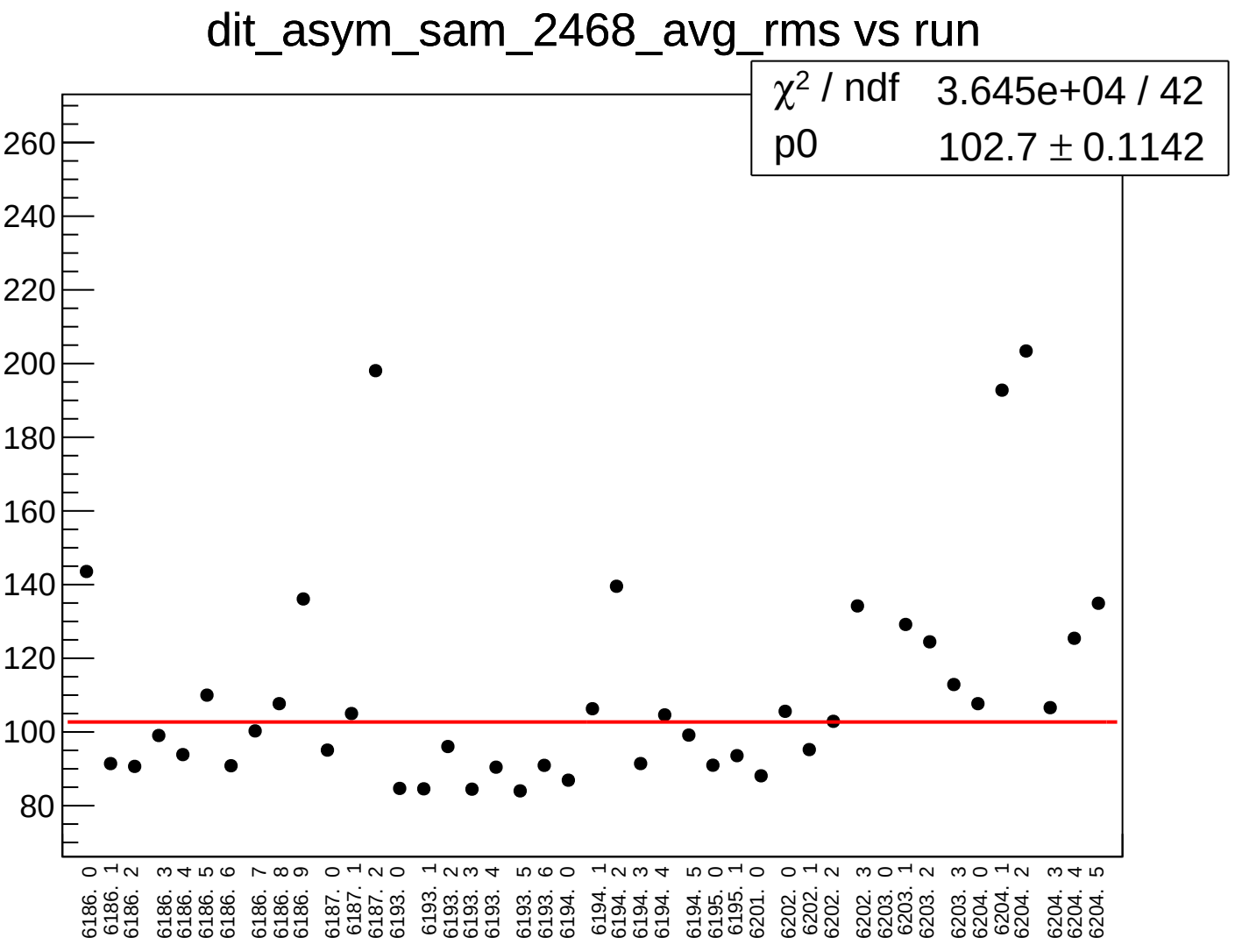

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.529e+04 / 42
p0 91.81 ± 0.1014
200
180
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

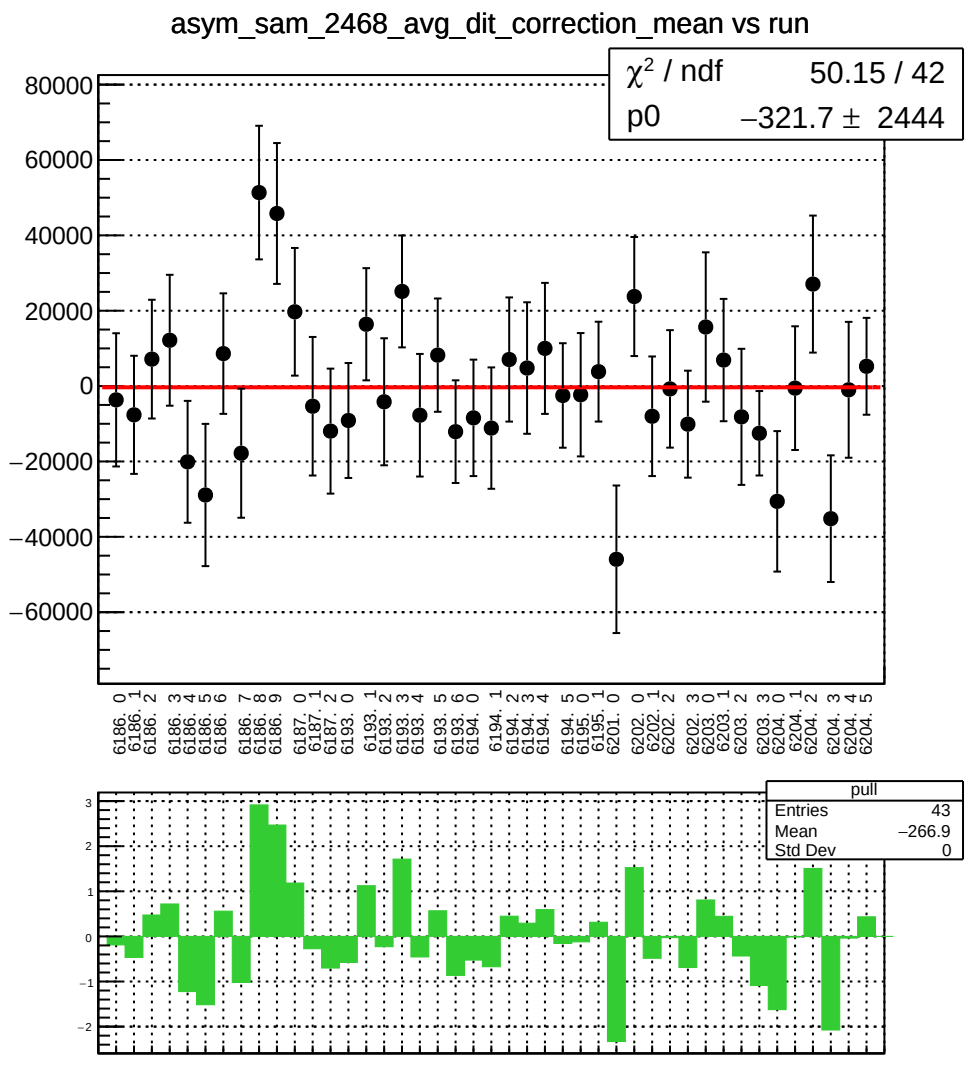

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 50.09 / 42
p0 −355.5 ± 2407
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −189.1
Std Dev 0
3
2
1
0
−1
−2

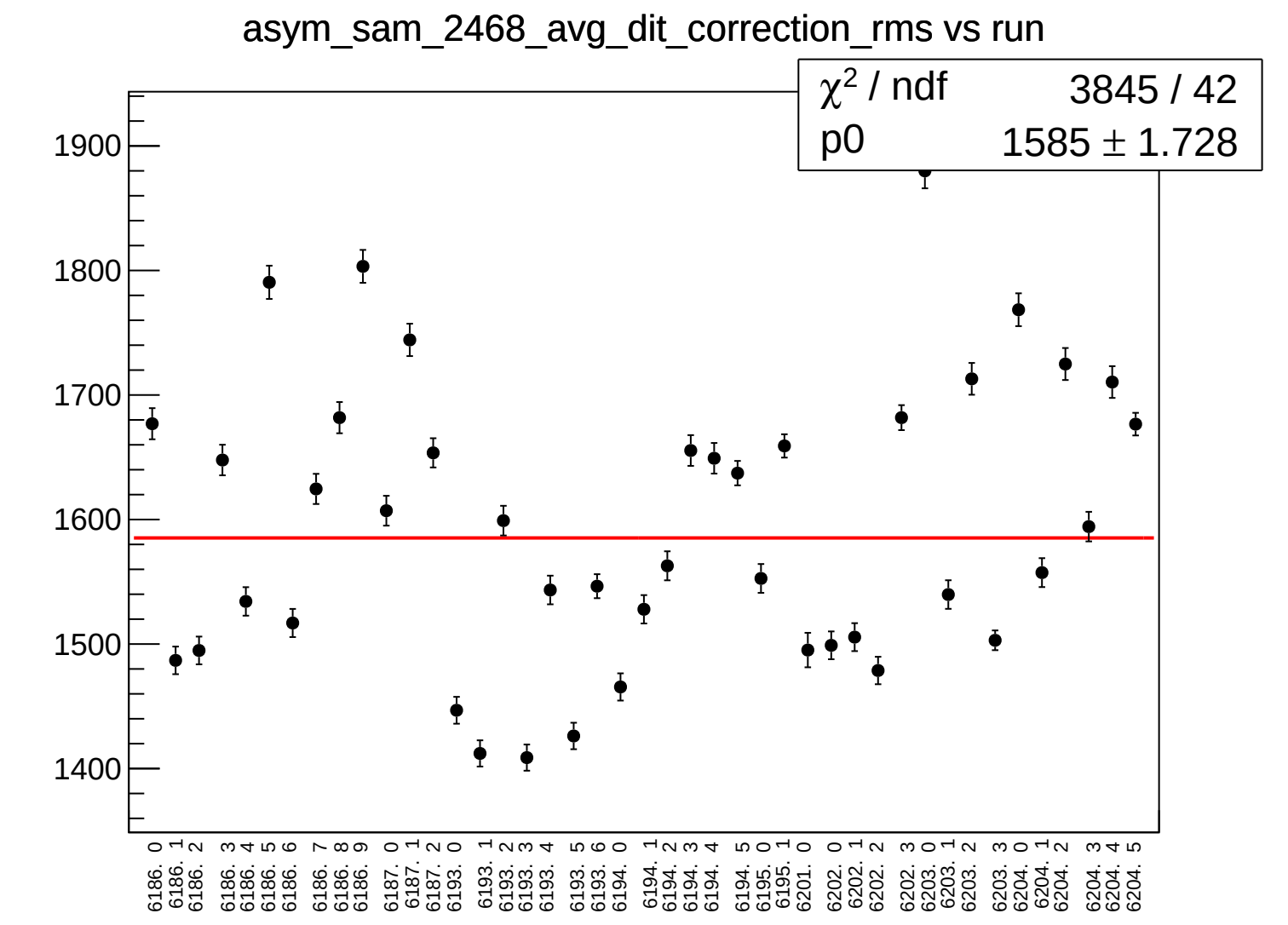

pull1D
Entries 43
Mean 0.009634
Std Dev 1.079
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

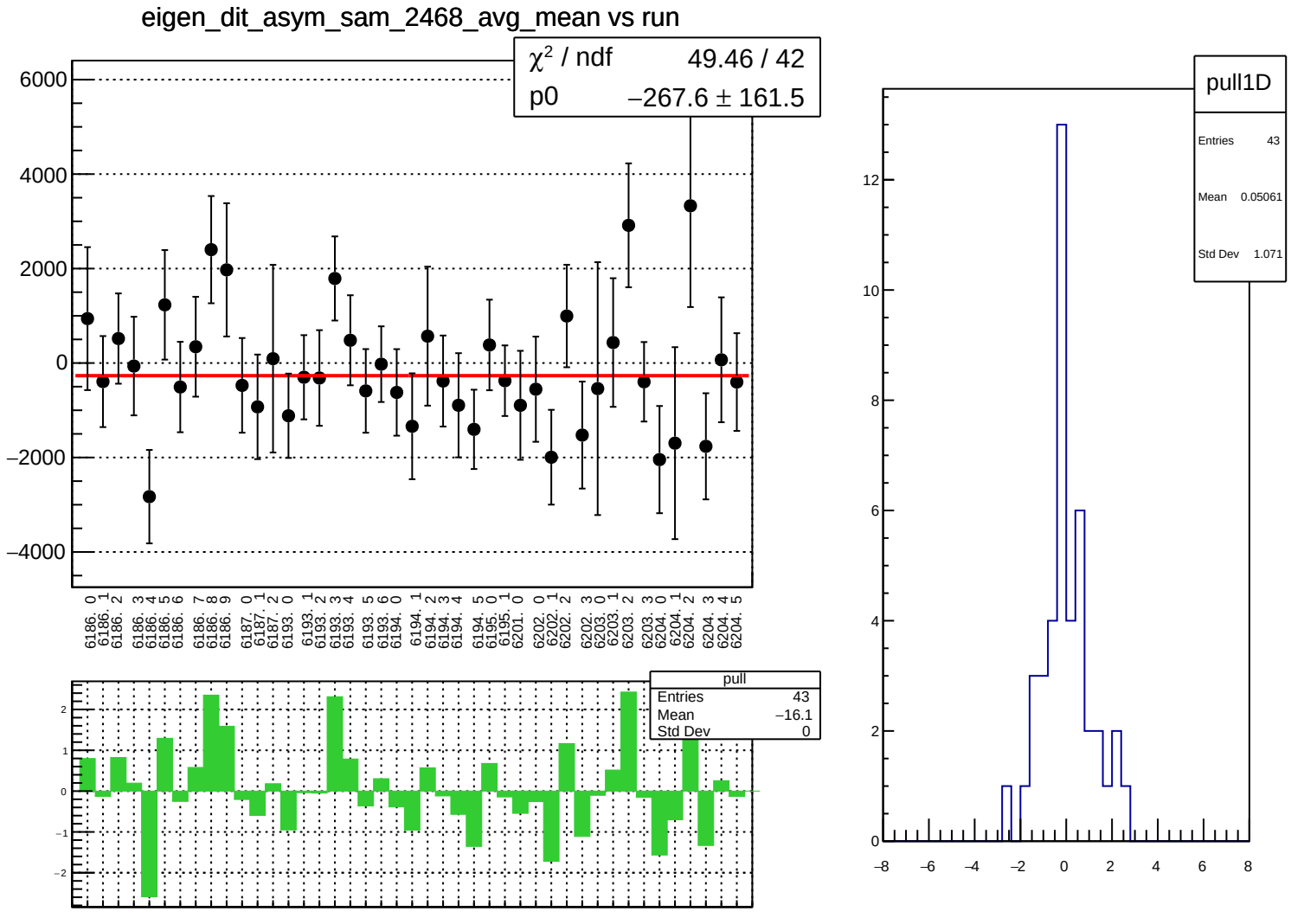

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 4304 / 42
p0 1561 ± 1.702
2000
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

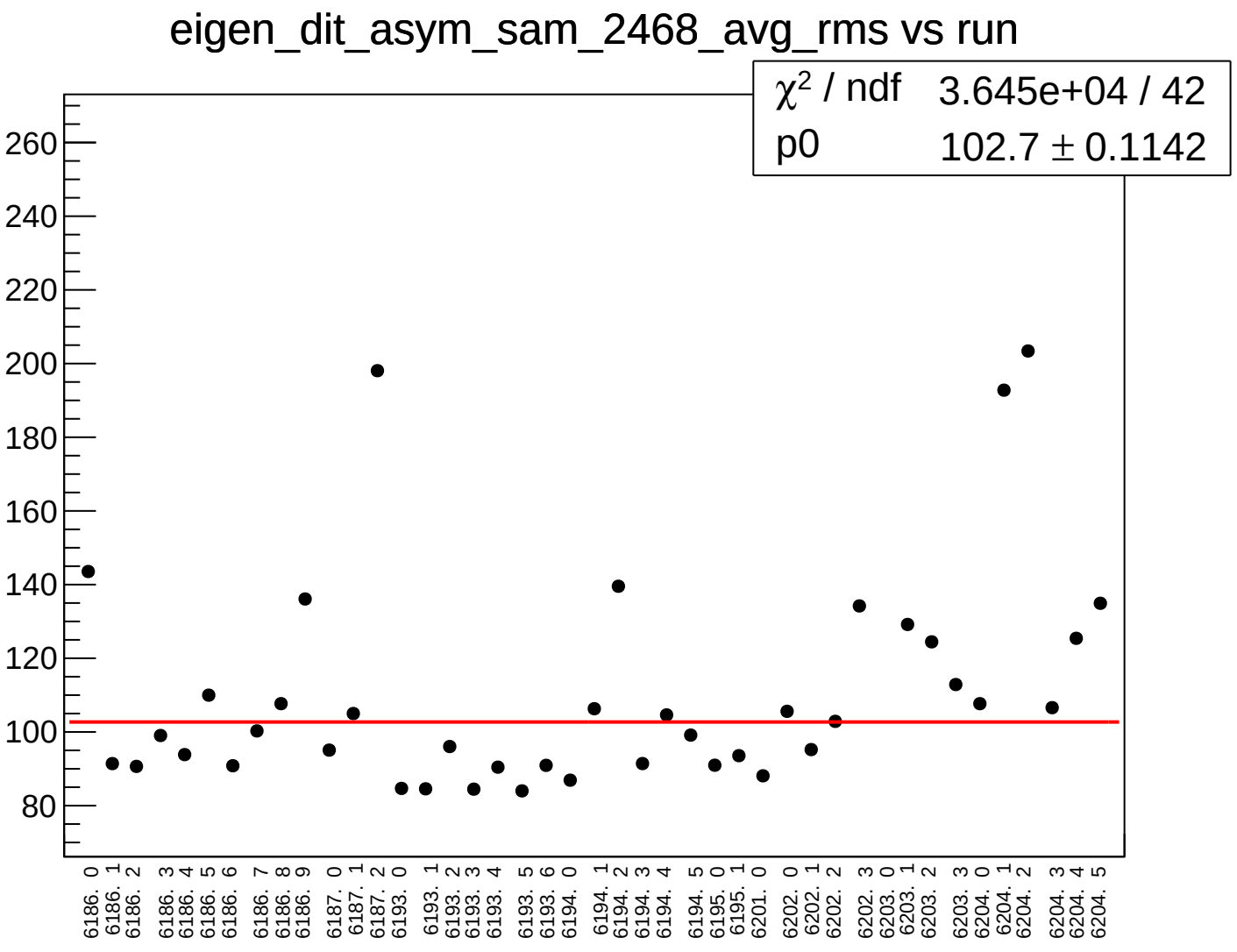

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 49.46 / 42
p0 −267.6 ± 161.5
6000
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −16.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.05061
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

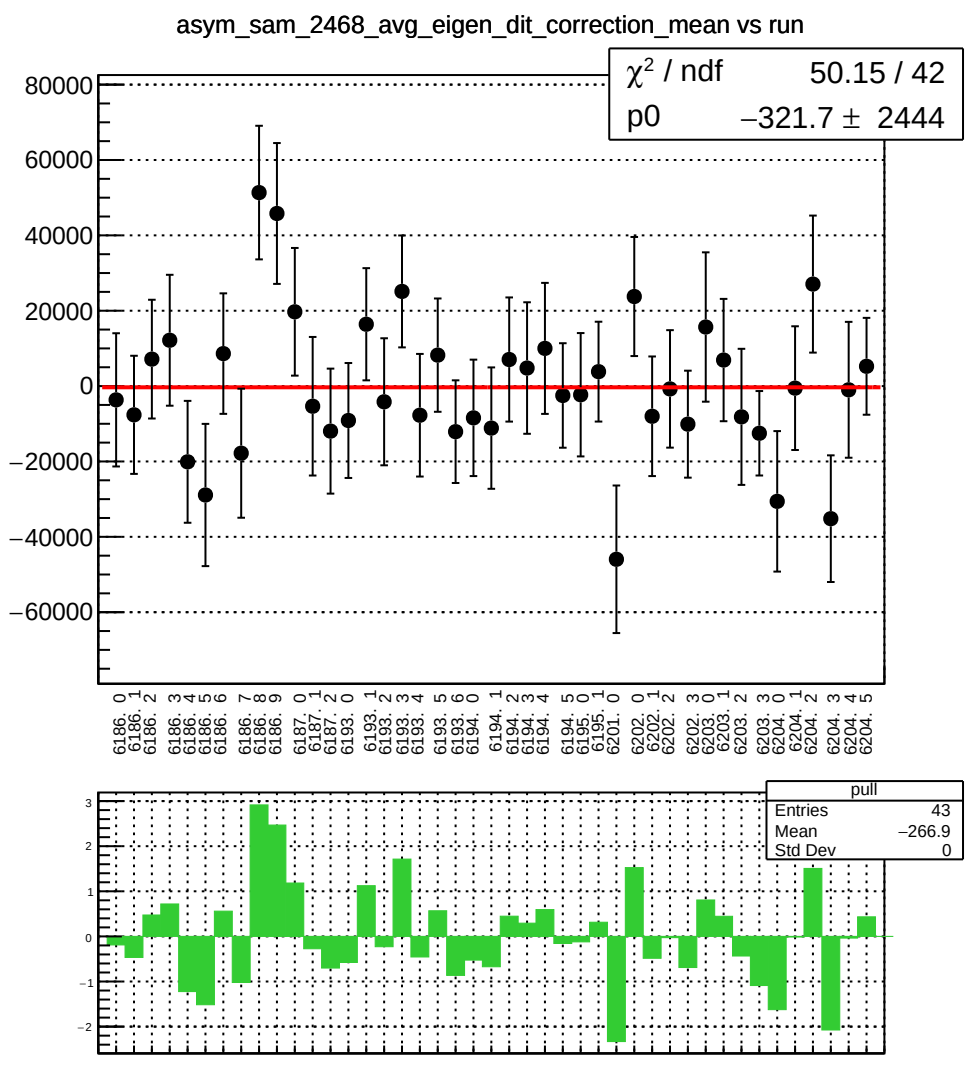

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 3.645e+04 / 42
p0 102.7 ± 0.1142
260
240
220
200
180
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

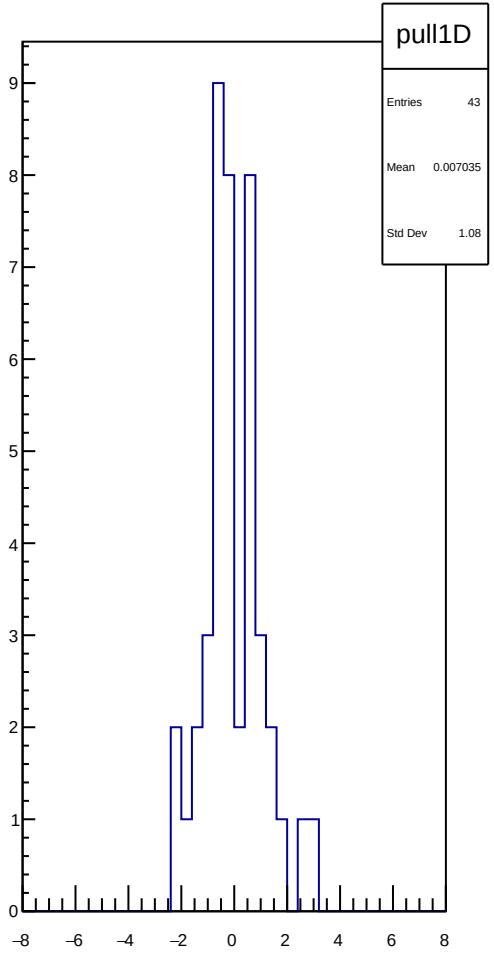

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 50.15 / 42
p0 −321.7 ± 2444
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −266.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.007035
Std Dev 1.08
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

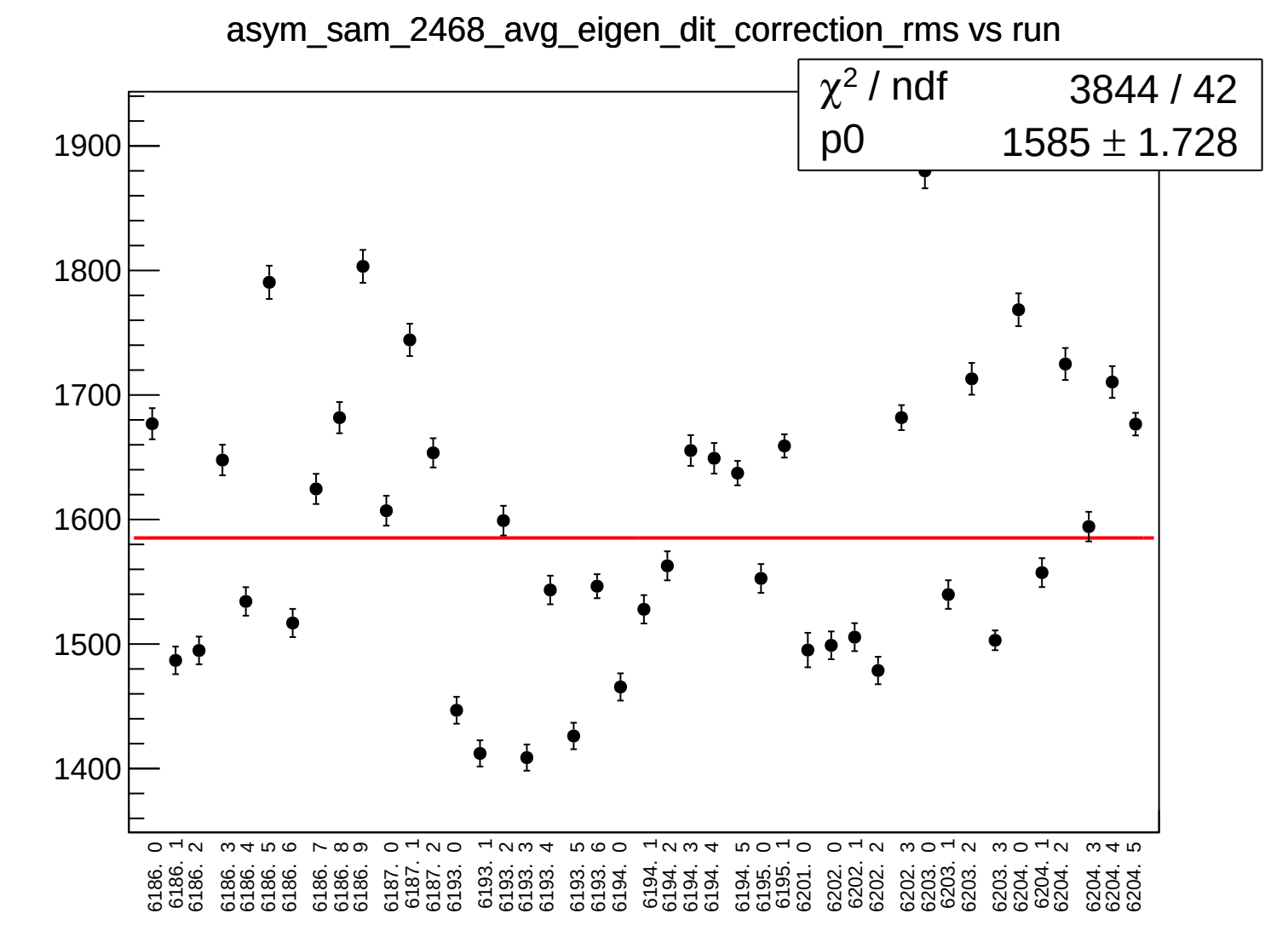

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 3845 / 42
p0 1585 ± 1.728
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

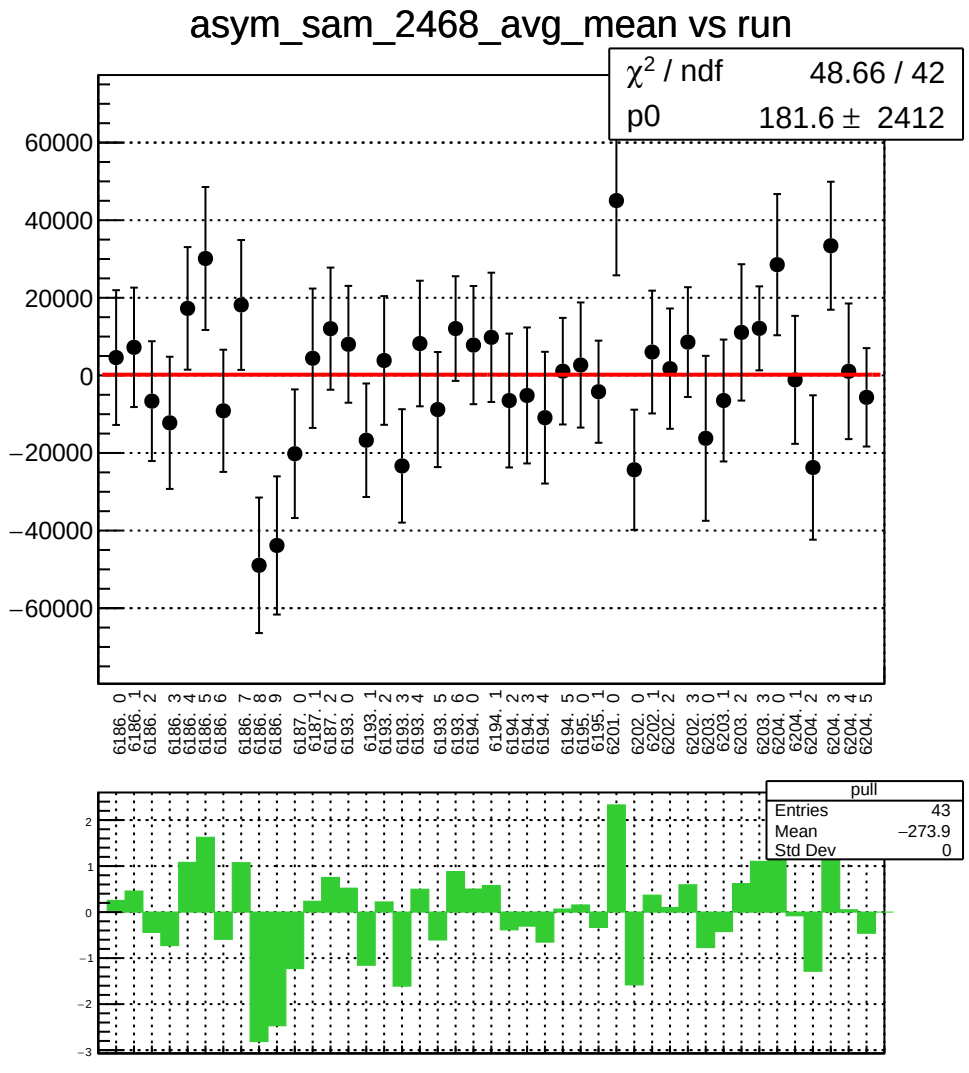

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 49.46 / 42
p0 −267.6 ± 161.5
6000
4000
2000
0
−2000
−4000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −16.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.05061
Std Dev 1.071
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

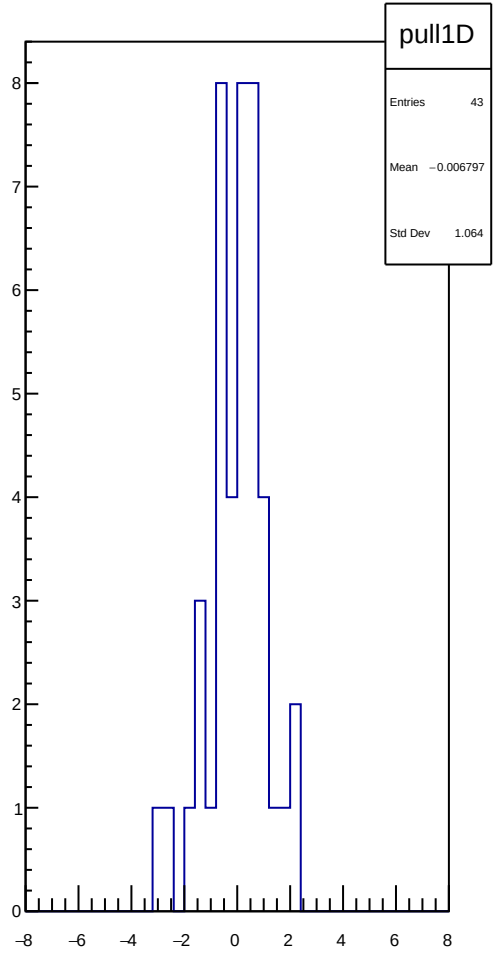

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 3.645e+04 / 42
p0 102.7 ± 0.1142
260
240
220
200
180
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

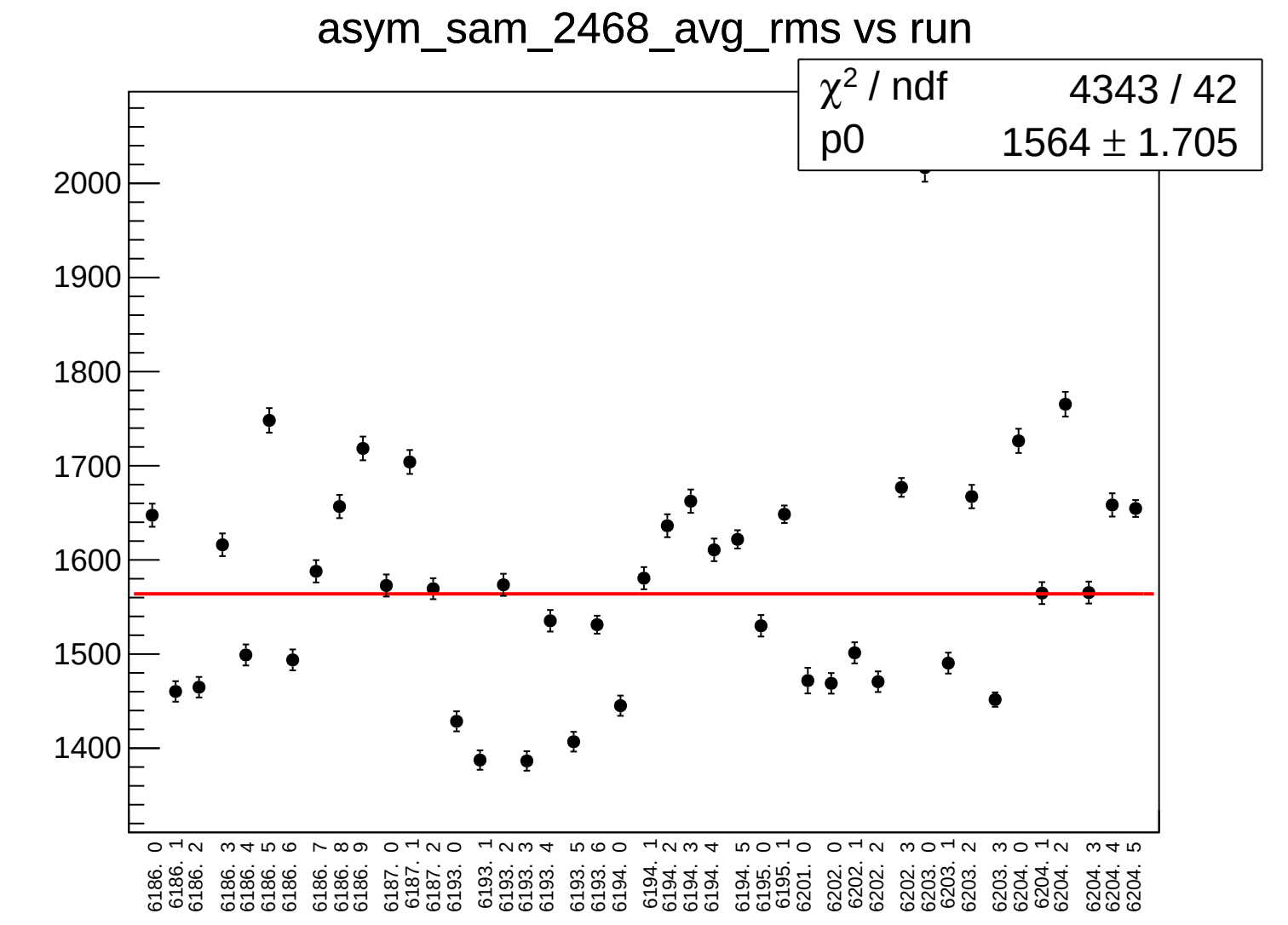

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 50.15 / 42
p0 −321.7 ± 2444
80000
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −266.9
Std Dev 0
3
2
1
0
−1
−2

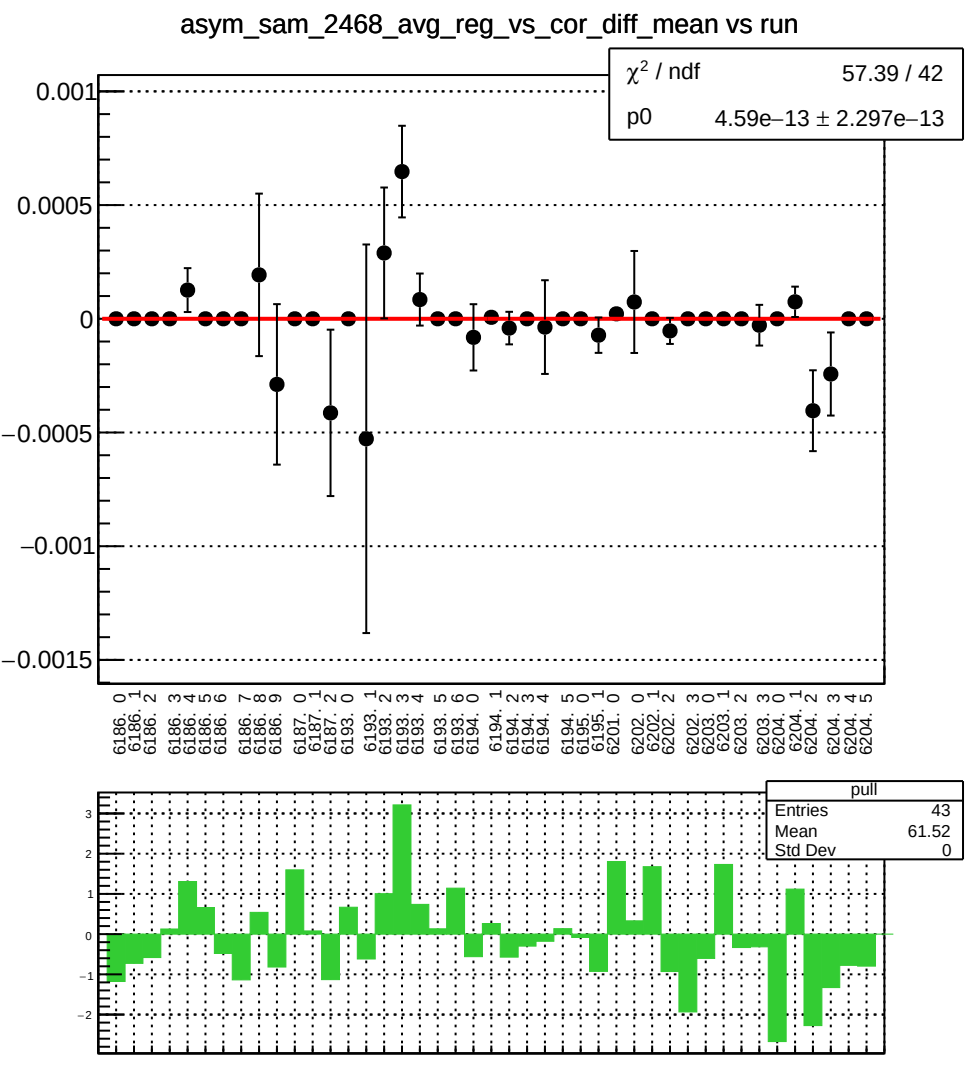

pull1D
Entries 43
Mean 0.007035
Std Dev 1.08
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

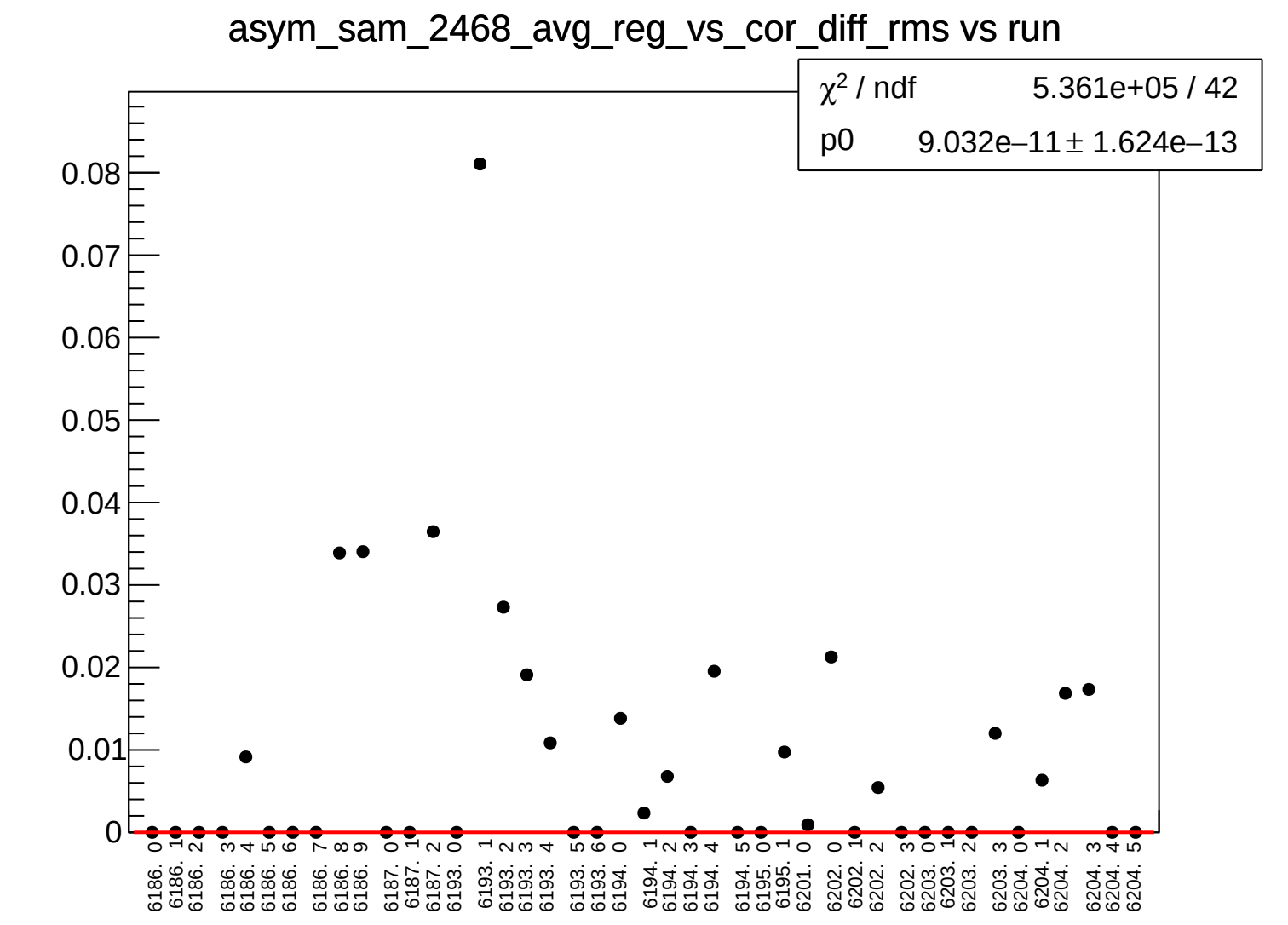

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 3844 / 42
p0 1585 ± 1.728
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_2468_avg_mean vs run
χ² / ndf 48.66 / 42
p0 181.6 ± 2412
60000
40000
20000
0
−20000
−40000
−60000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −273.9
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.006797
Std Dev 1.064
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_rms vs run
χ² / ndf 4343 / 42
p0 1564 ± 1.705
2000
1900
1800
1700
1600
1500
1400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 57.39 / 42
p0 4.59e−13 ± 2.297e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 61.52
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.06904
Std Dev 1.153
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 5.361e+05 / 42
p0 9.032e−11 ± 1.624e−13
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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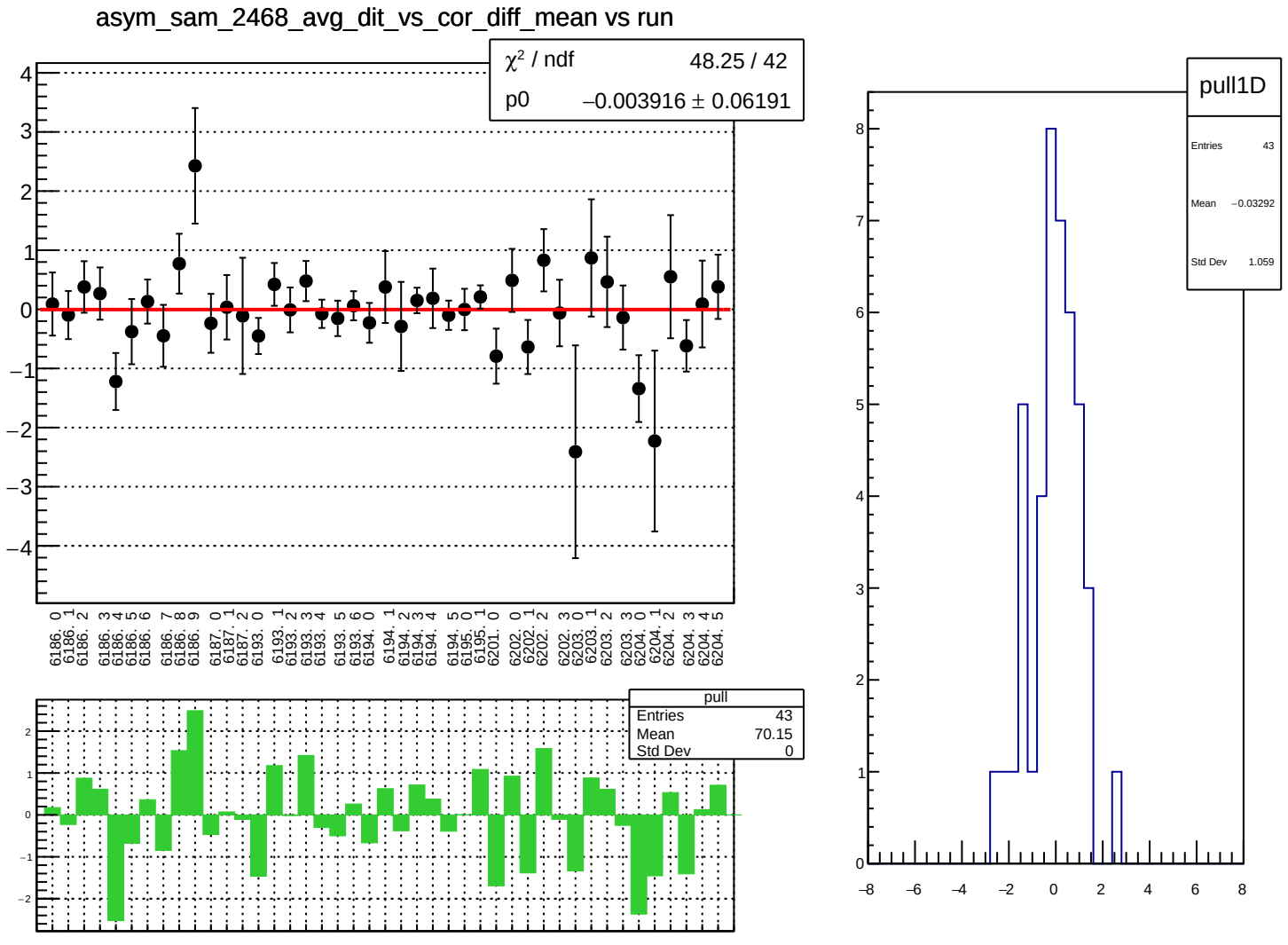
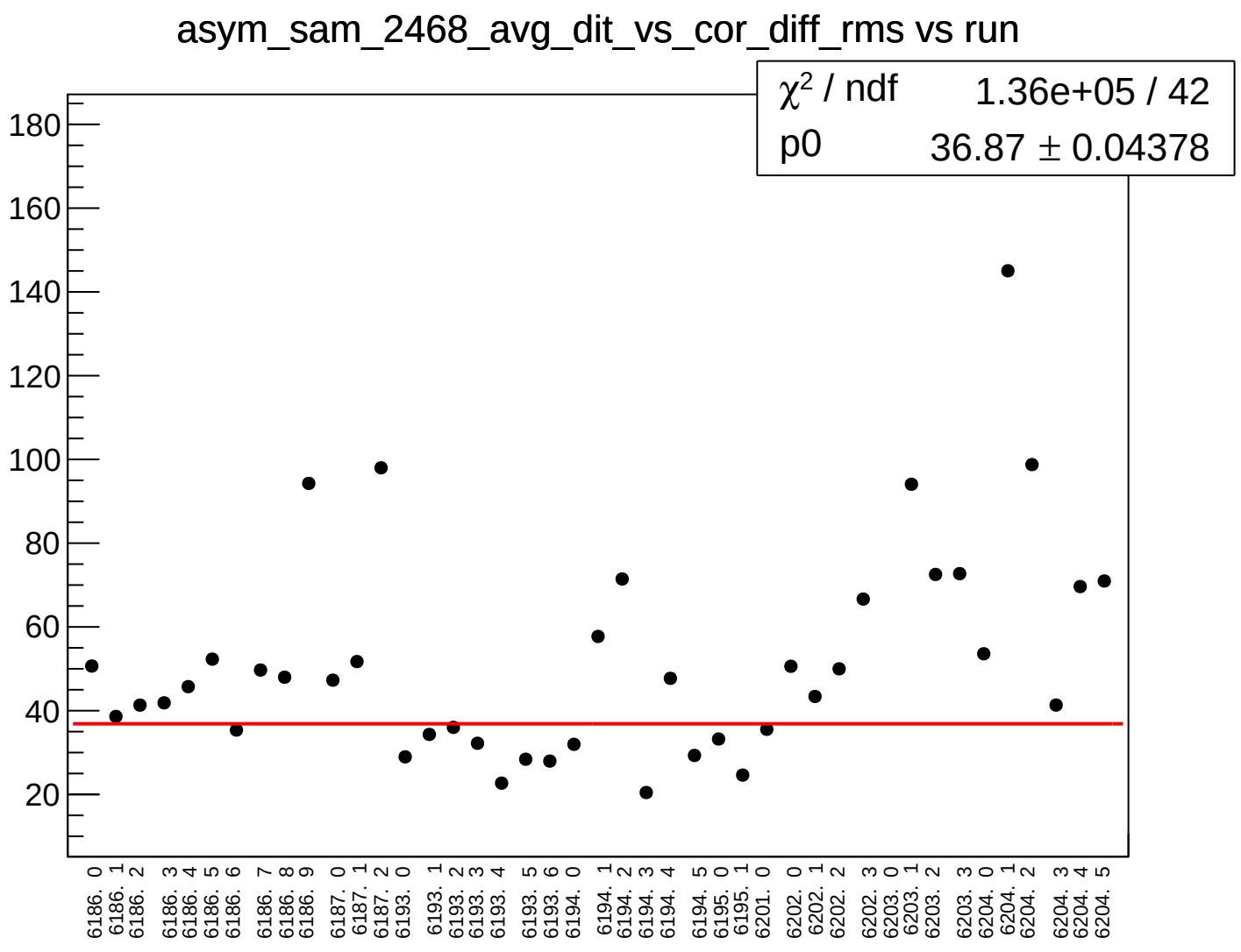
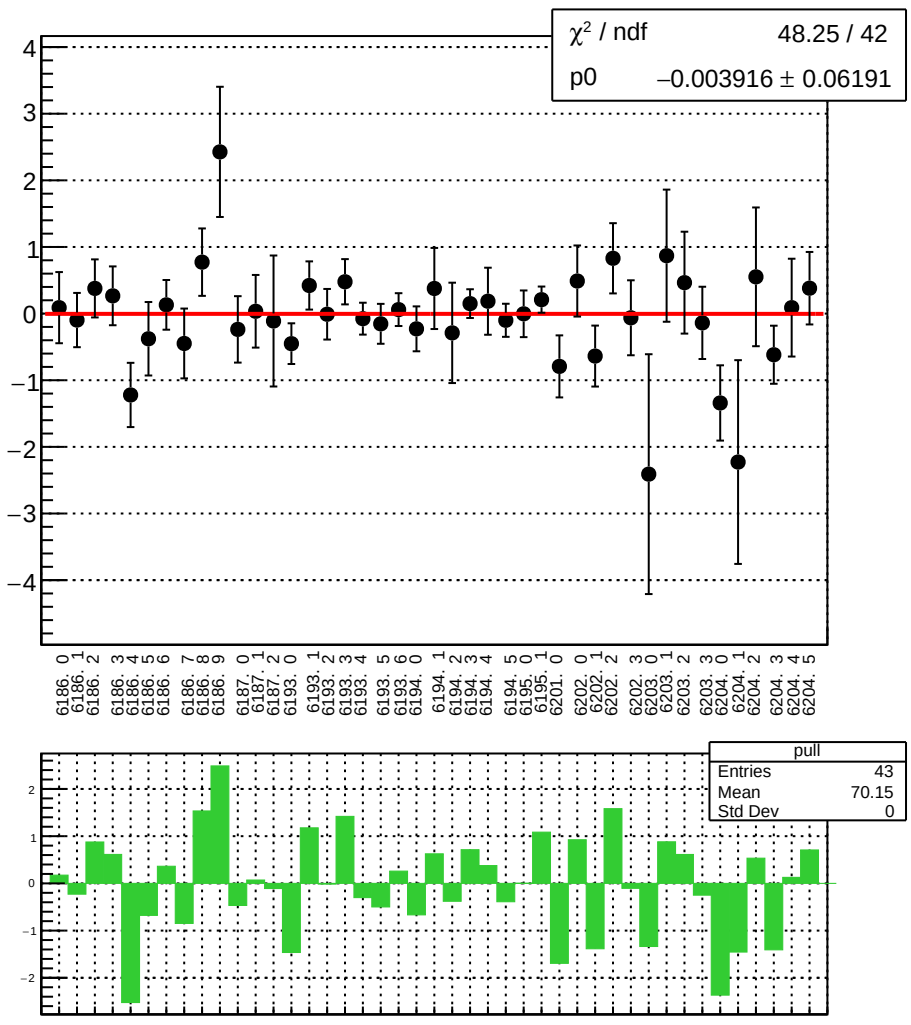
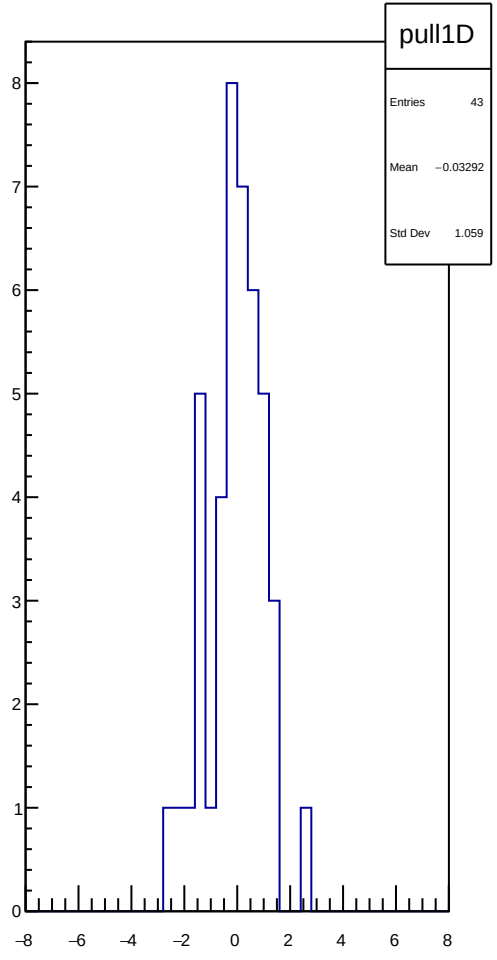
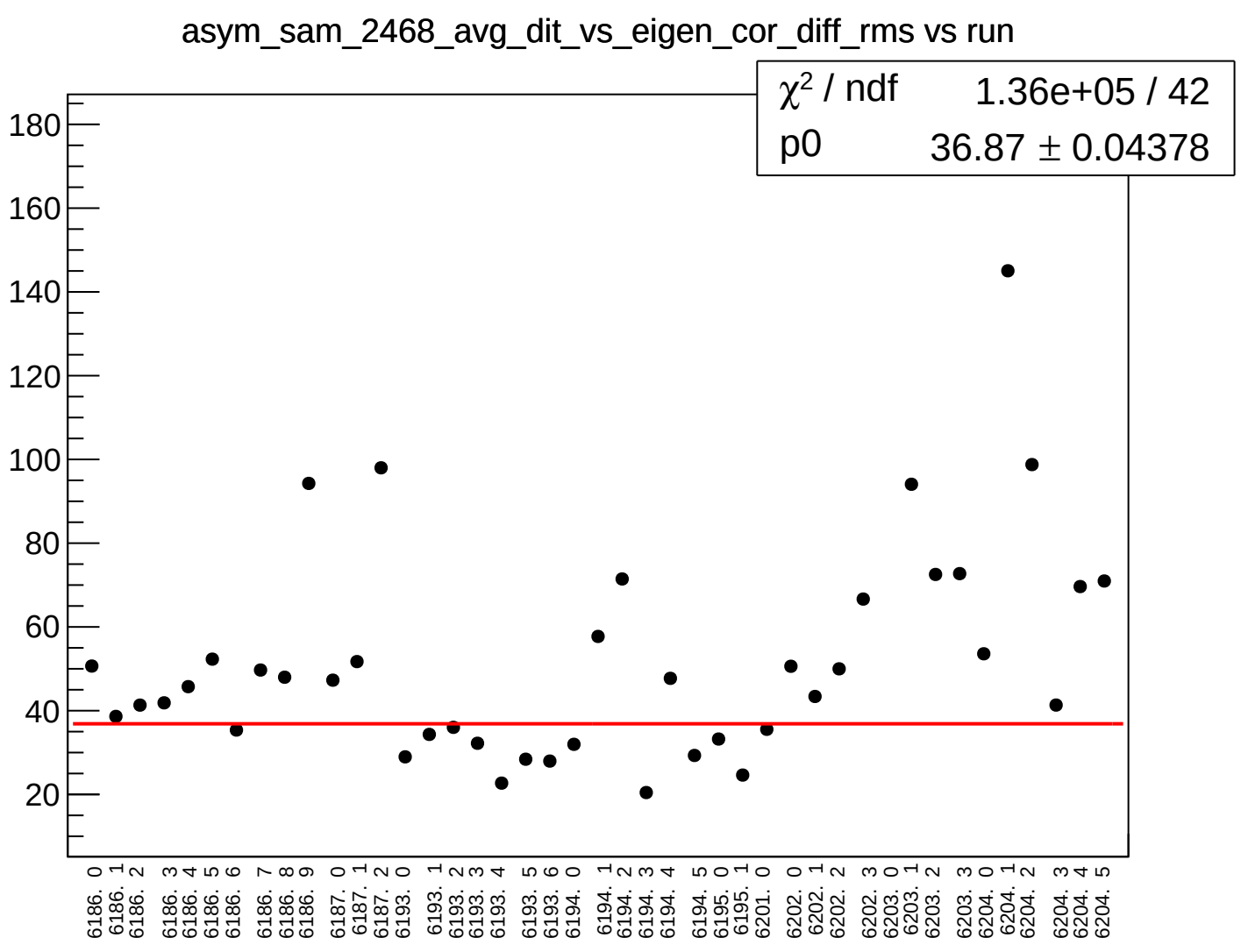
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

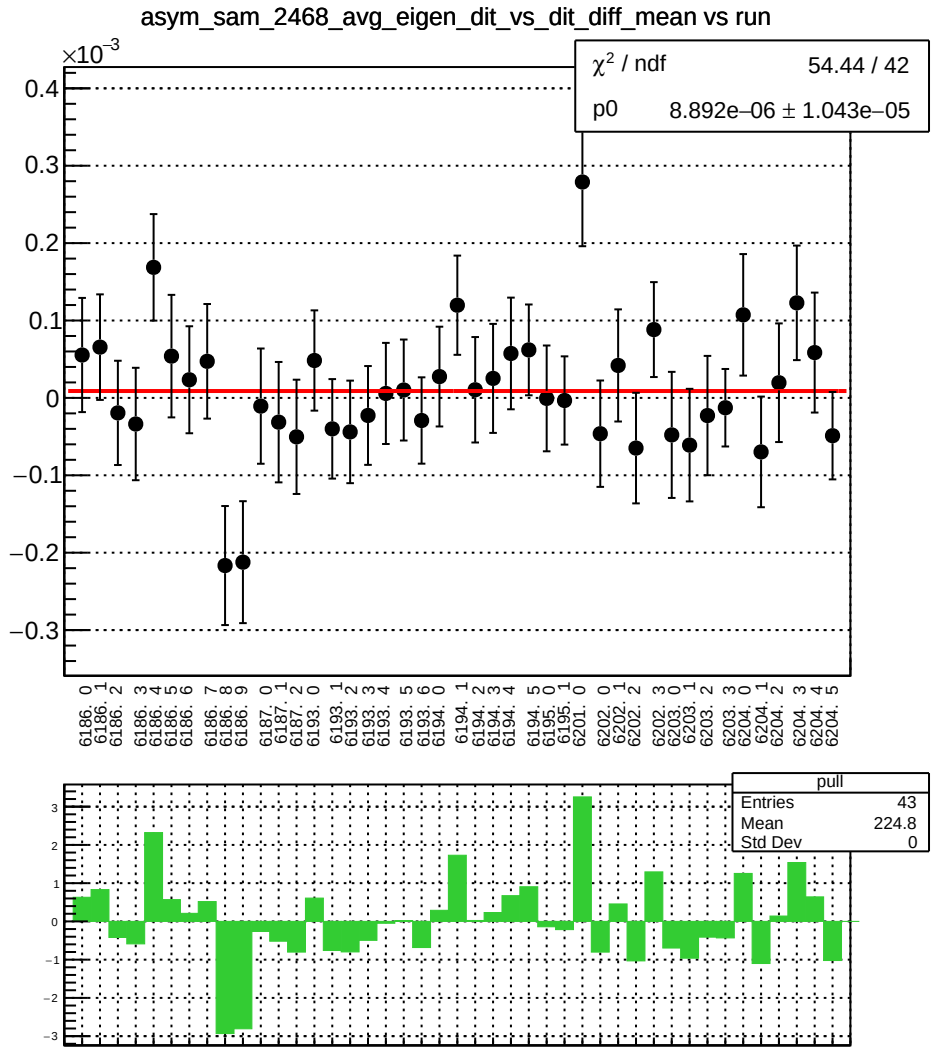

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 48.25 / 42
p0 −0.003916 ± 0.06191
pull
Entries 43
Mean 70.15
Std Dev 0
pull1D
Entries 43
Mean −0.03292
Std Dev 1.059

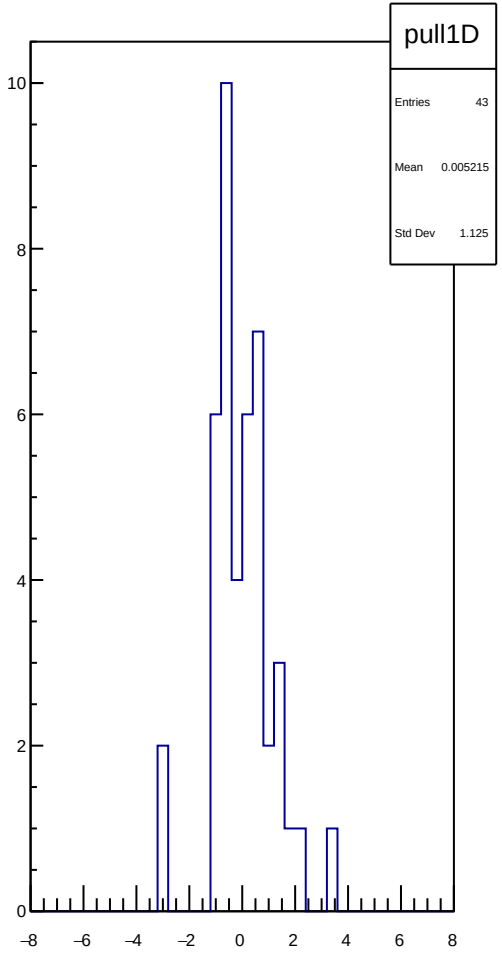

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.36e+05 / 42
p0 36.87 ± 0.04378
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

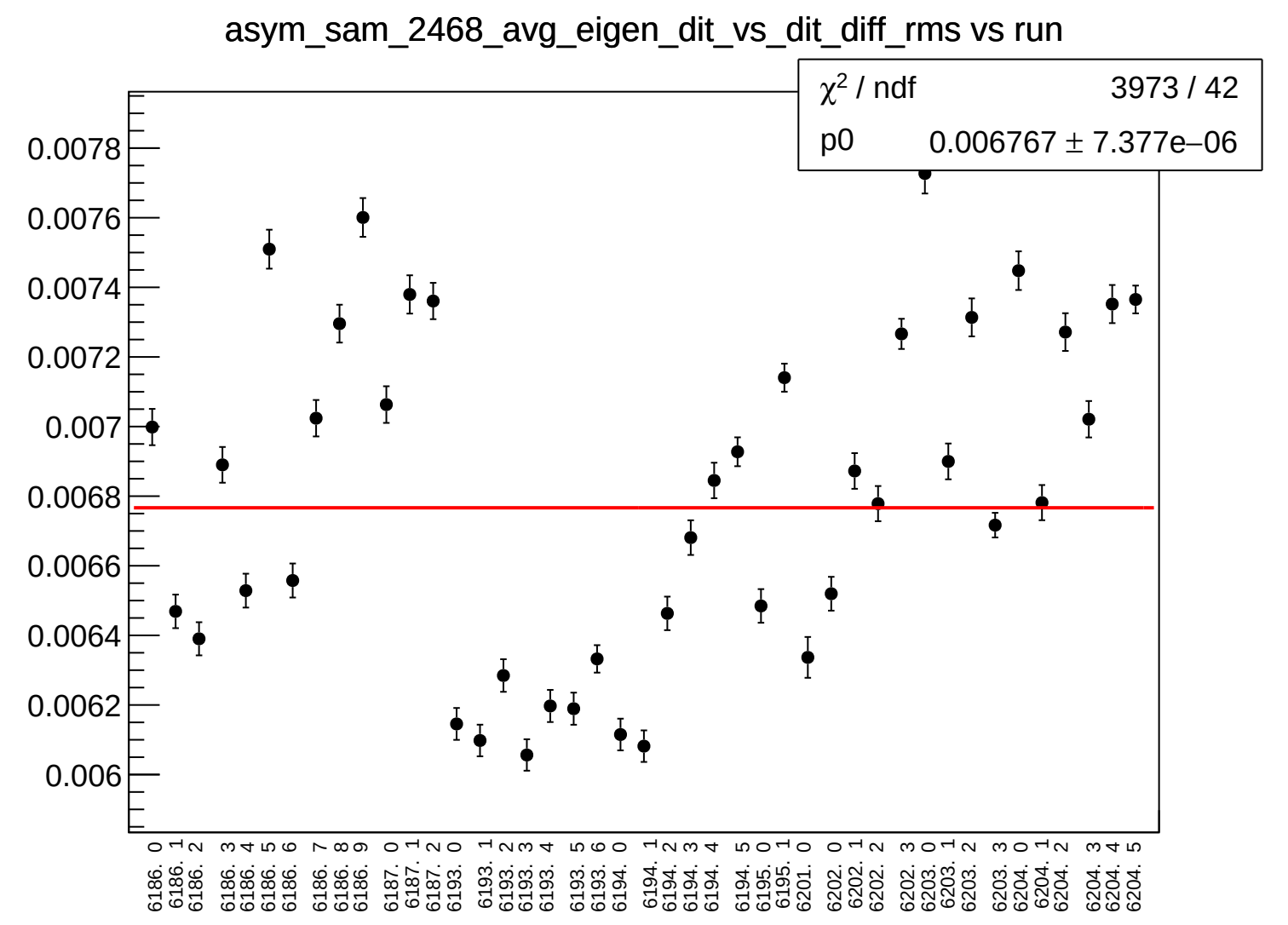

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.25 / 42
p0 −0.003916 ± 0.06191
pull
Entries 43
Mean 70.15
Std Dev 0

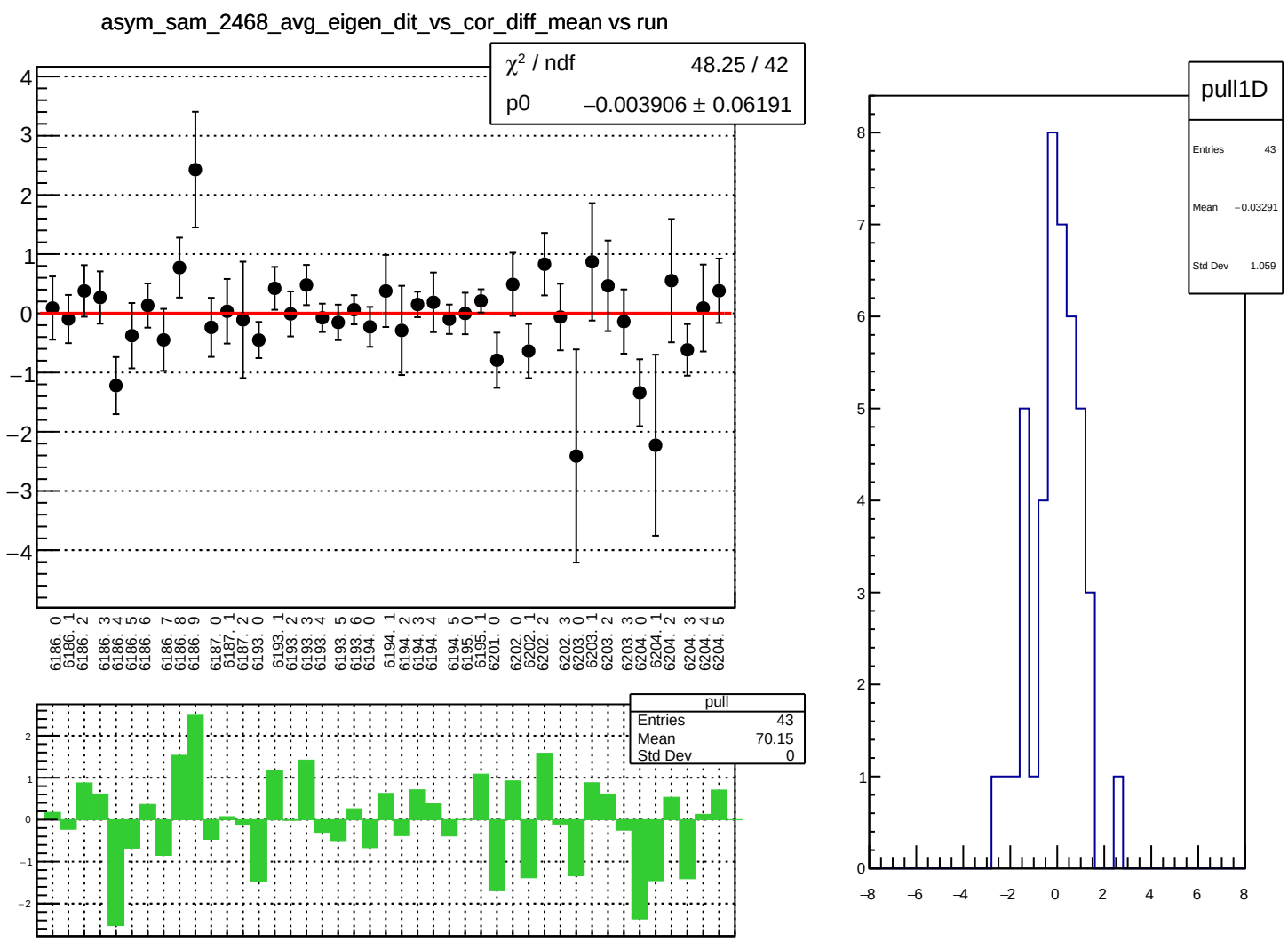

pull1D
Entries 43
Mean −0.03292
Std Dev 1.059

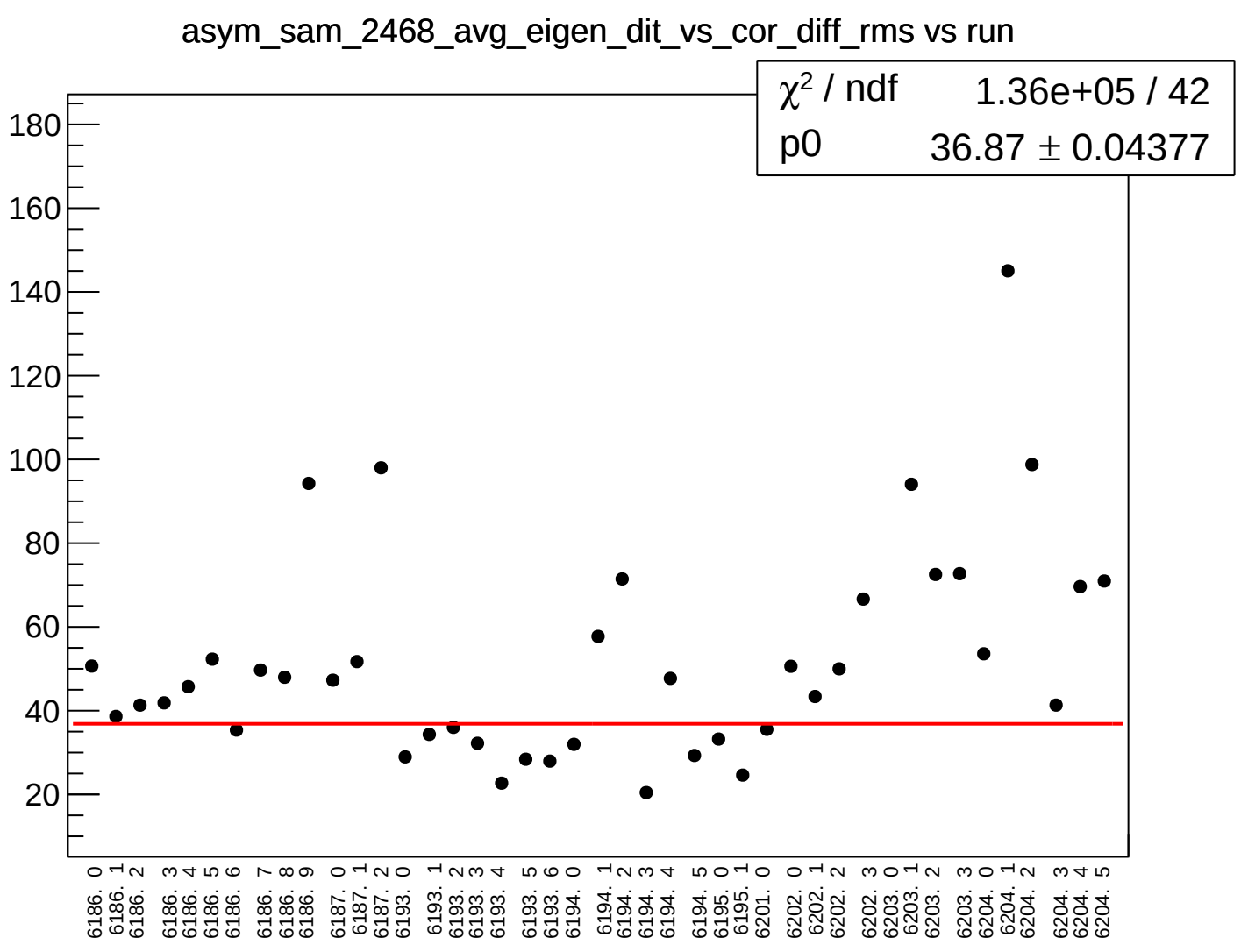

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.36e+05 / 42
p0 36.87 ± 0.04378
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

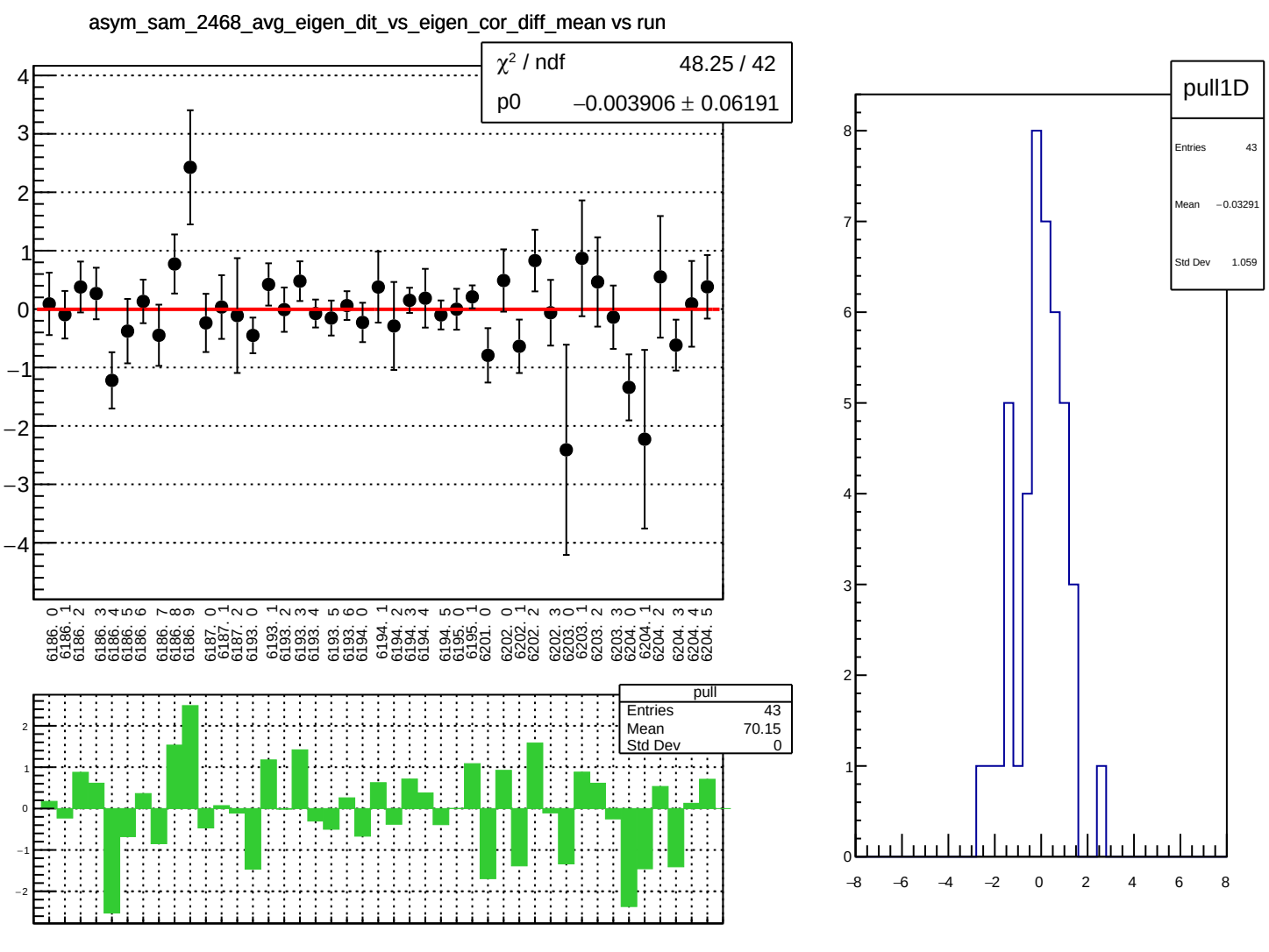

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 54.44 / 42
p0 8.892e−06 ± 1.043e−05
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 224.8
Std Dev 0
3
2
1
0
−1
−2
−3

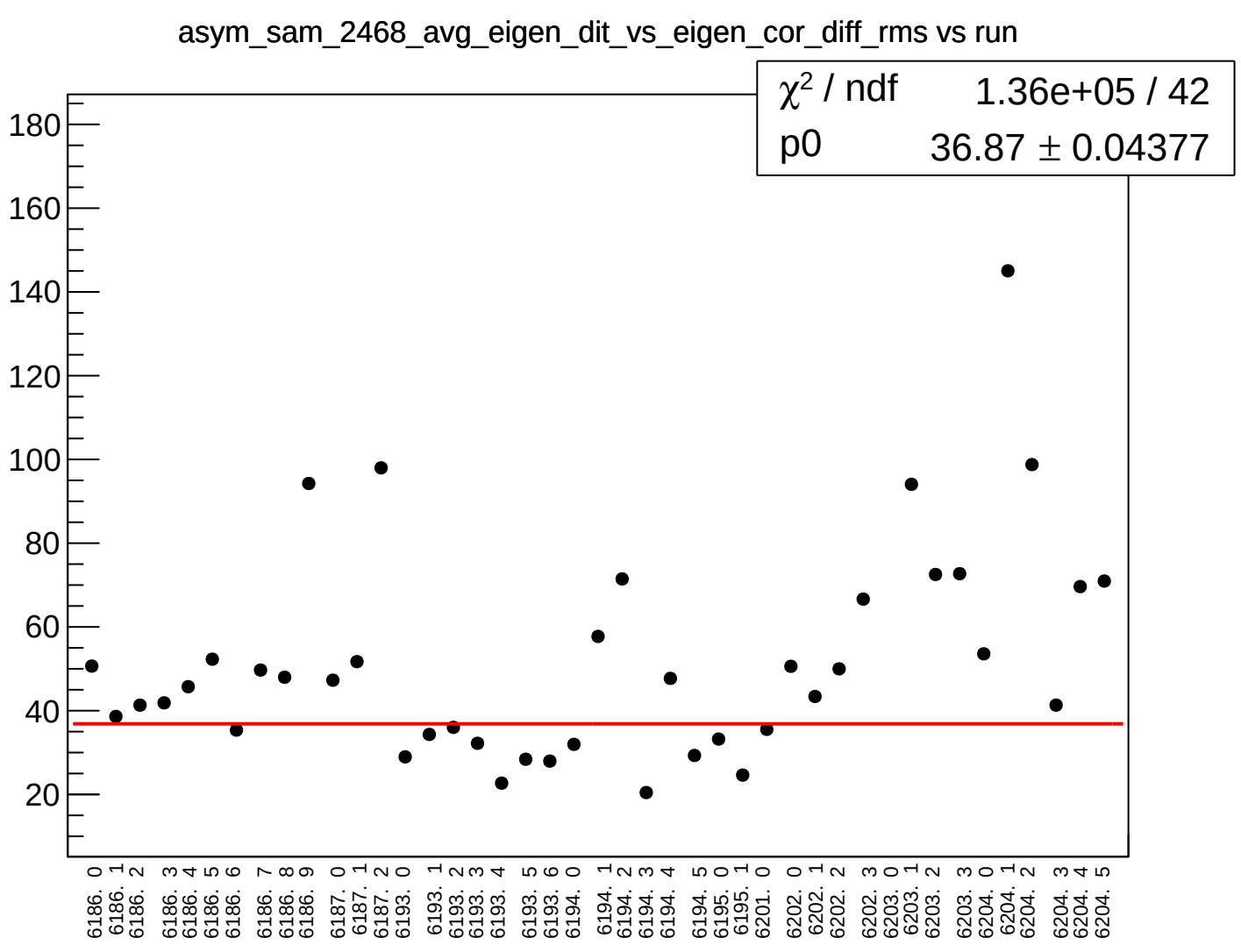

pull1D
Entries 43
Mean 0.005215
Std Dev 1.125
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

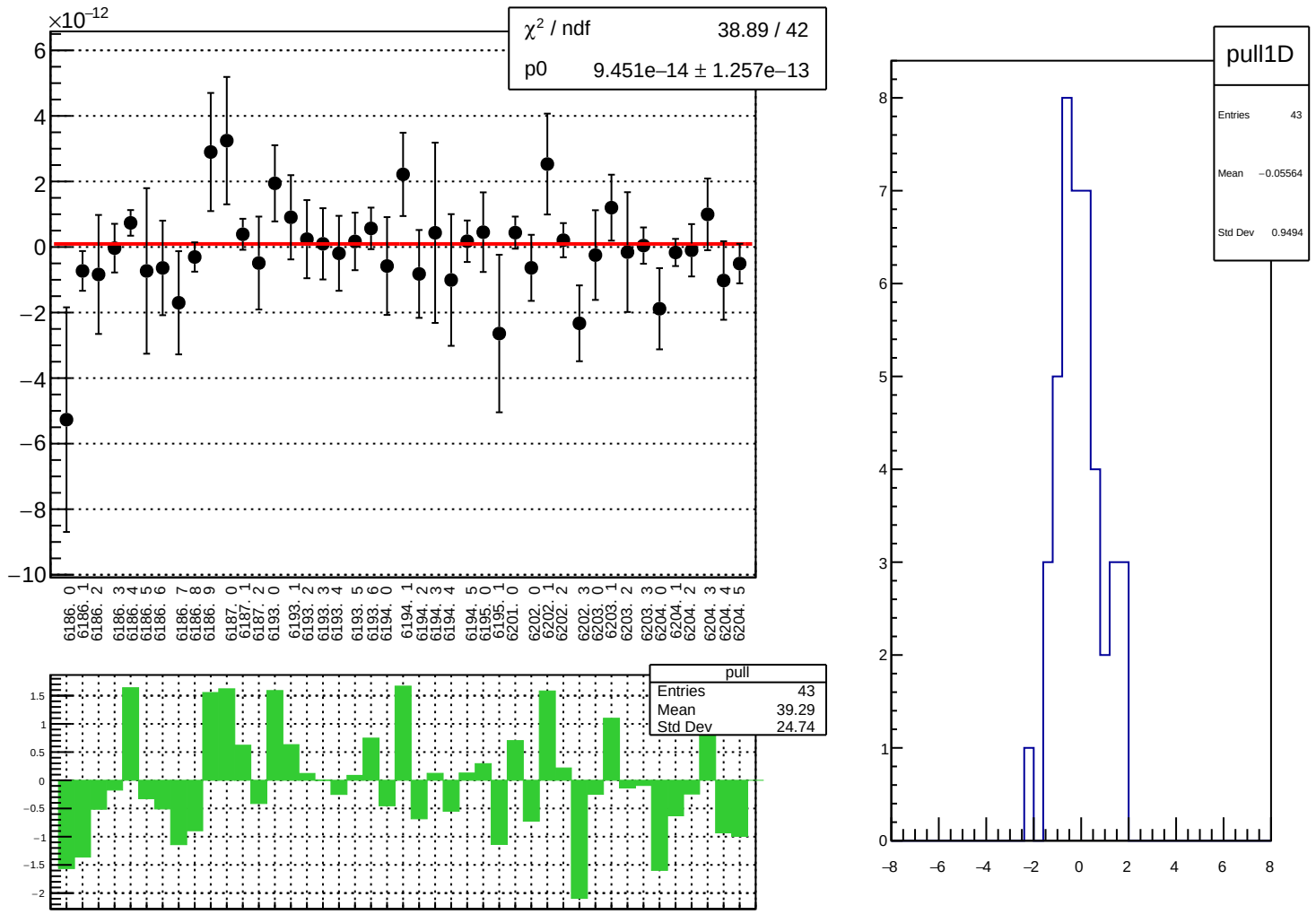

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3973 / 42
p0 0.006767 ± 7.377e−06
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

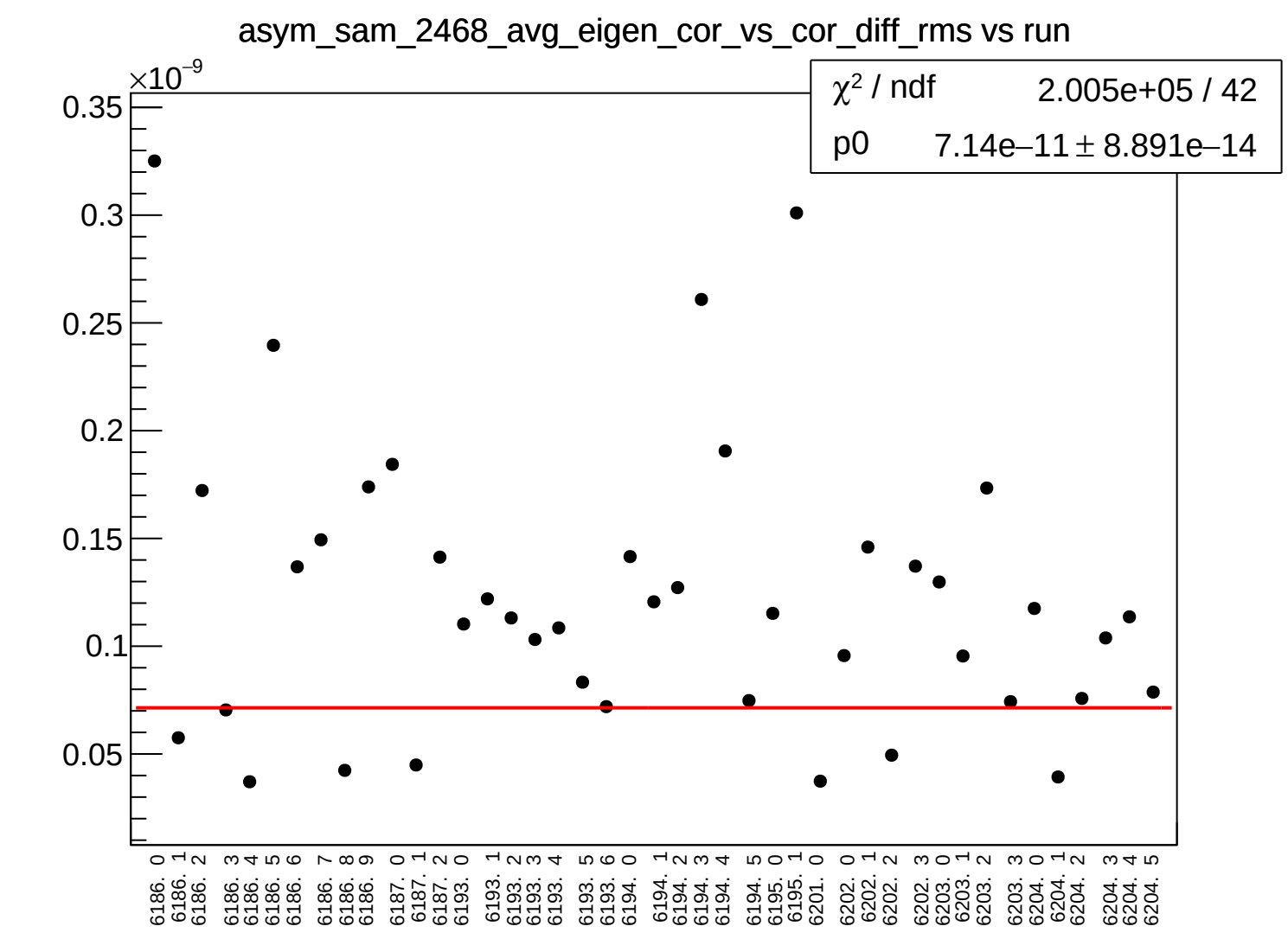

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 48.25 / 42
p0 −0.003906 ± 0.06191
pull
Entries 43
Mean 70.15
Std Dev 0
pull1D
Entries 43
Mean −0.03291
Std Dev 1.059

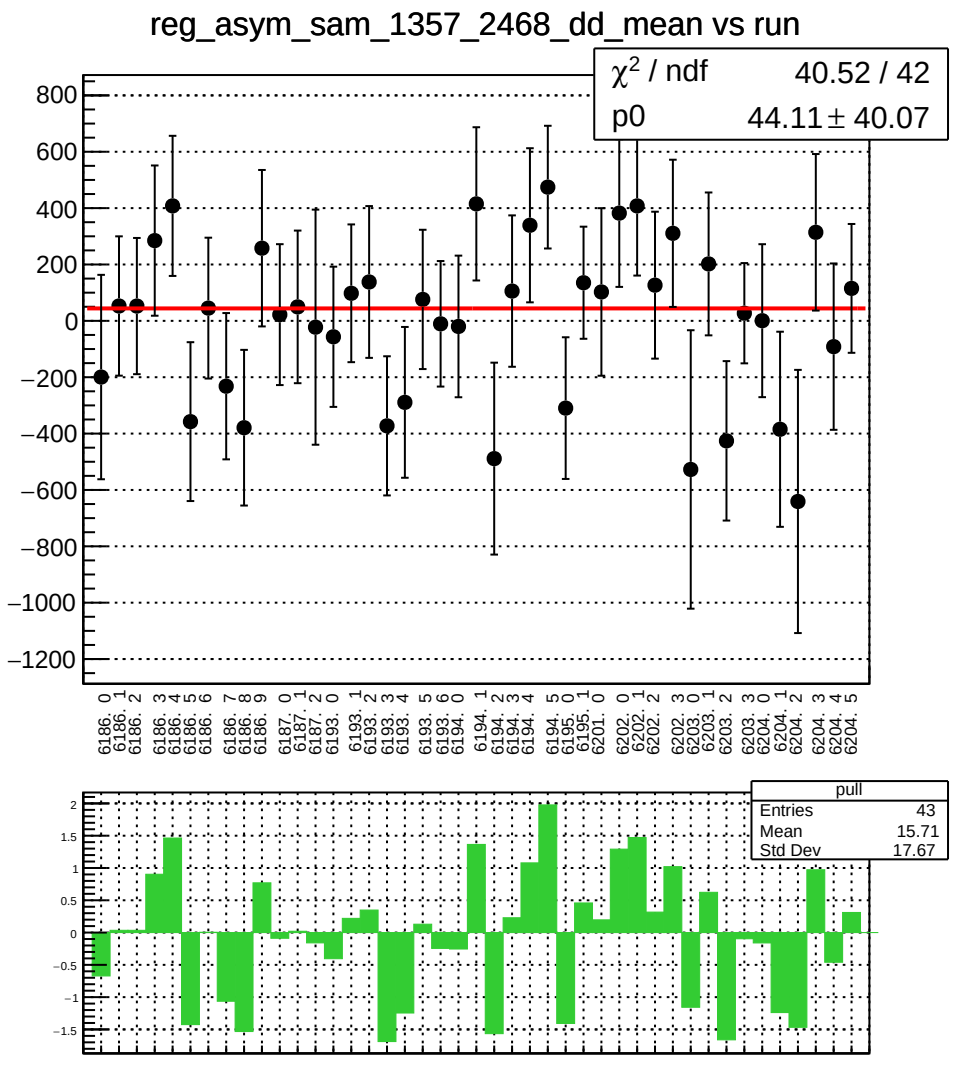

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.36e+05 / 42
p0 36.87 ± 0.04377
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

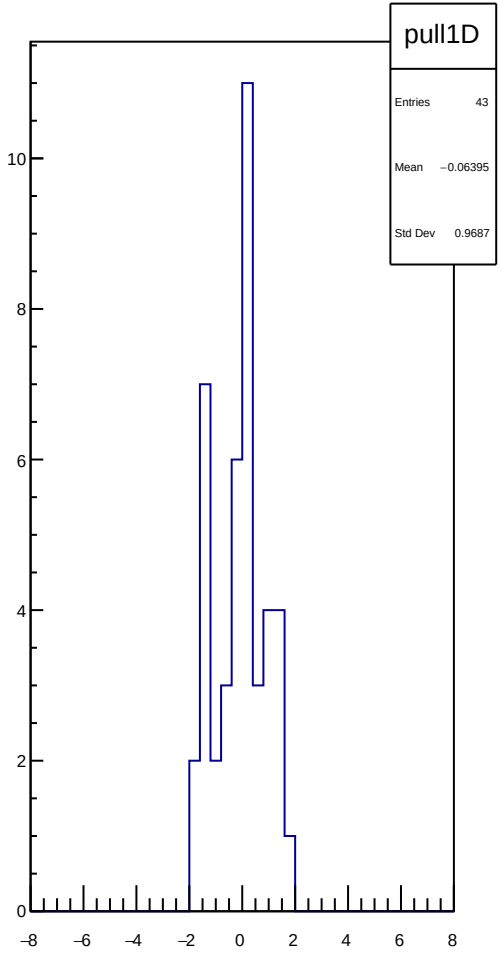

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 48.25 / 42
p0 −0.003906 ± 0.06191
pull
Entries 43
Mean 70.15
Std Dev 0
pull1D
Entries 43
Mean −0.03291
Std Dev 1.059

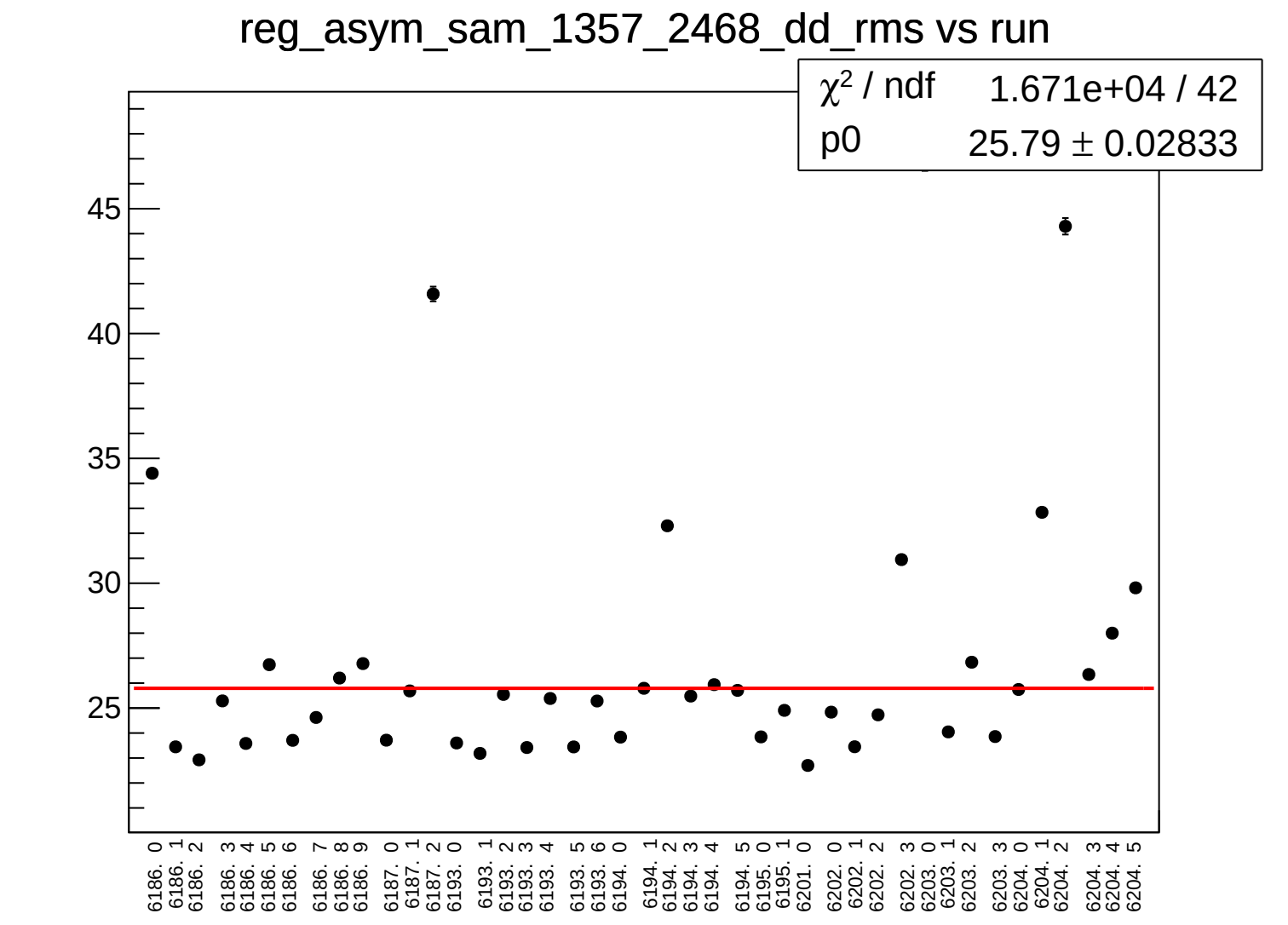

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.36e+05 / 42
p0 36.87 ± 0.04377
180
160
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

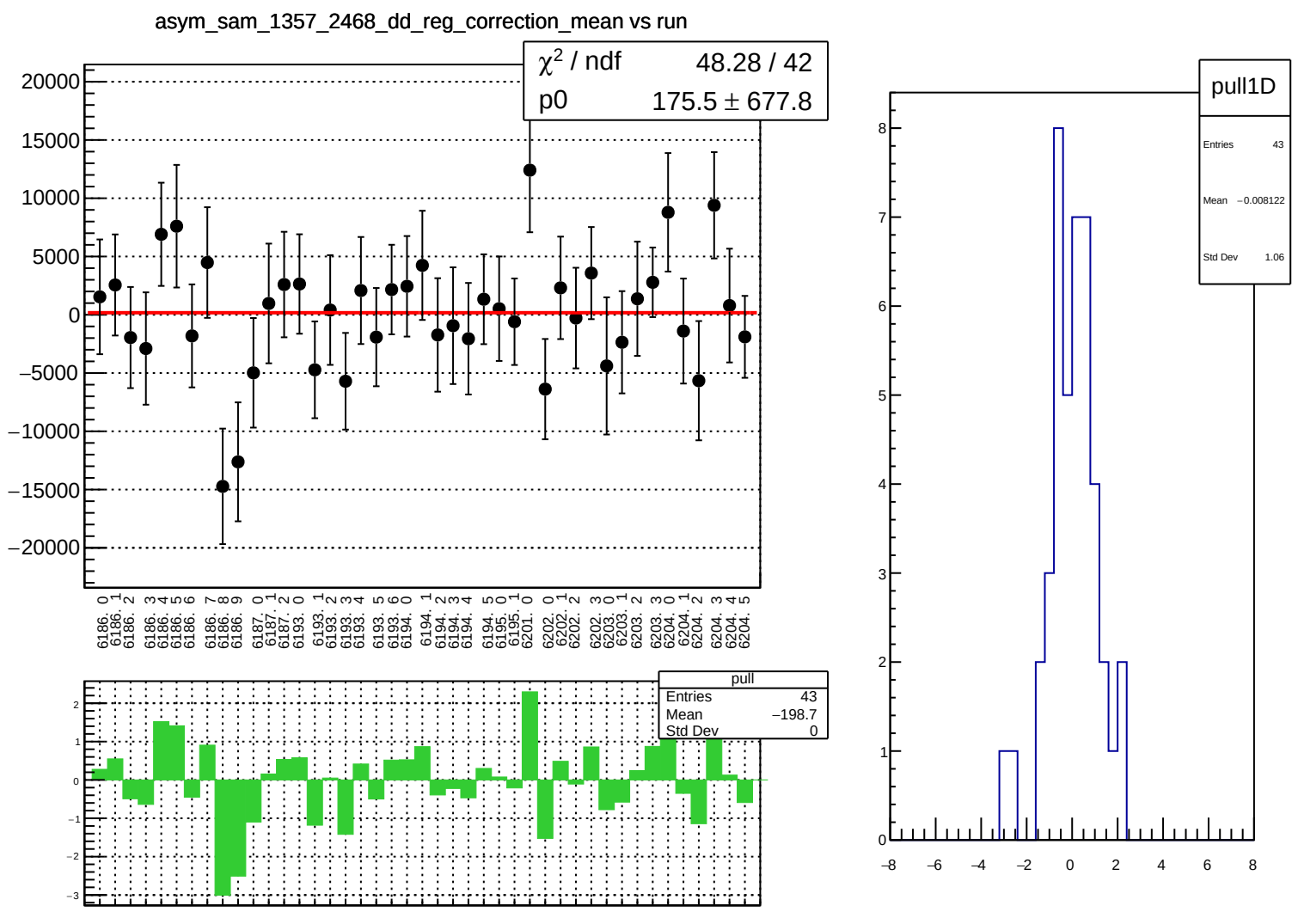

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 38.89 / 42
p0 9.451e−14 ± 1.257e−13
pull
Entries 43
Mean 39.29
Std Dev 24.74
pull1D
Entries 43
Mean −0.05564
Std Dev 0.9494

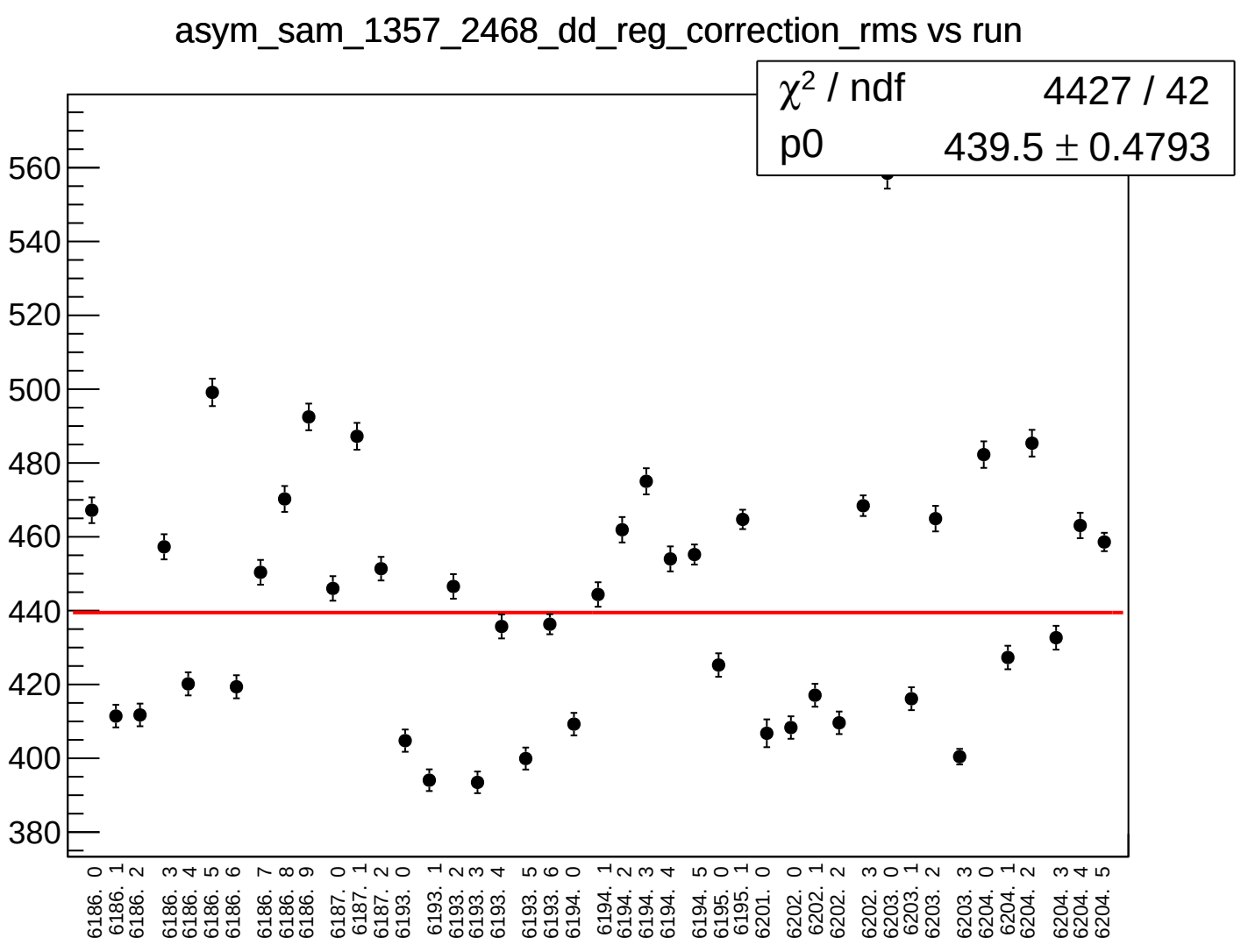

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.005e+05 / 42
p0 7.14e−11 ± 8.891e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

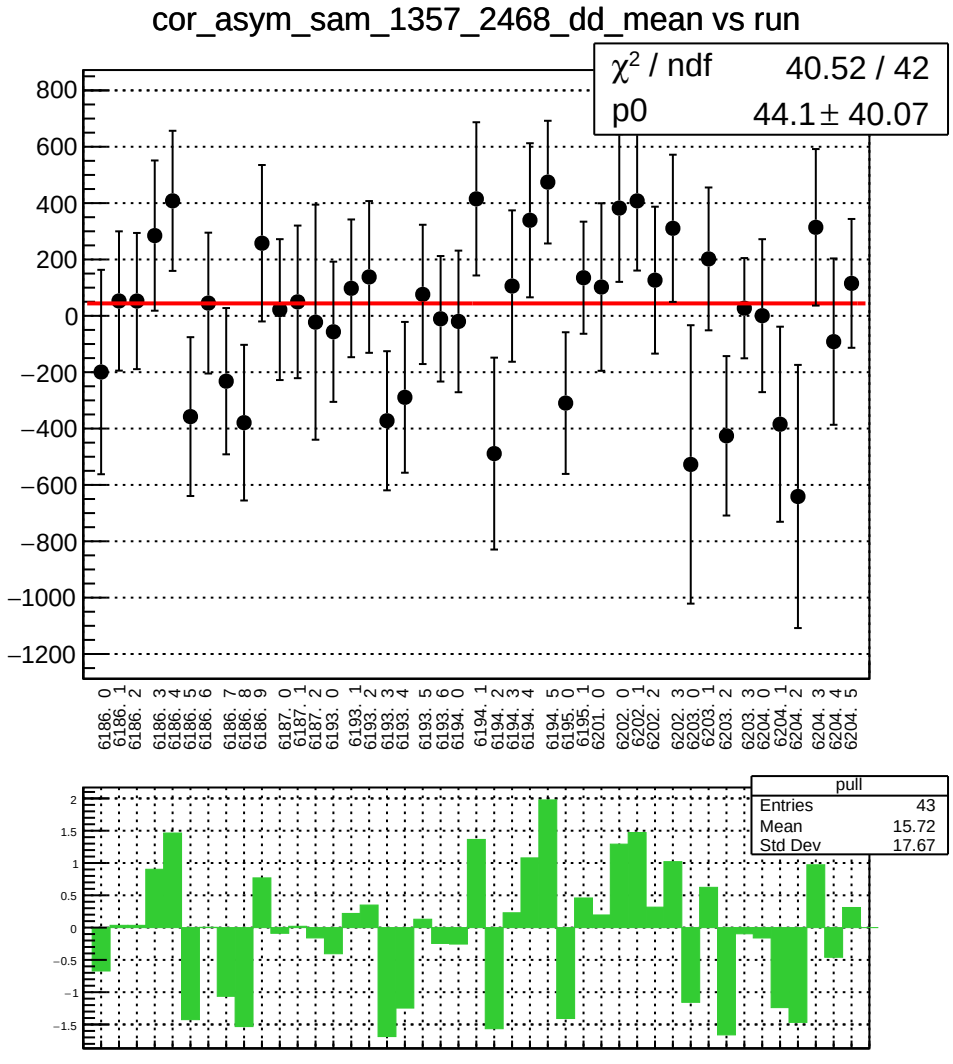

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 40.52 / 42
p0 44.11 ± 40.07
pull
Entries 43
Mean 15.71
Std Dev 17.67

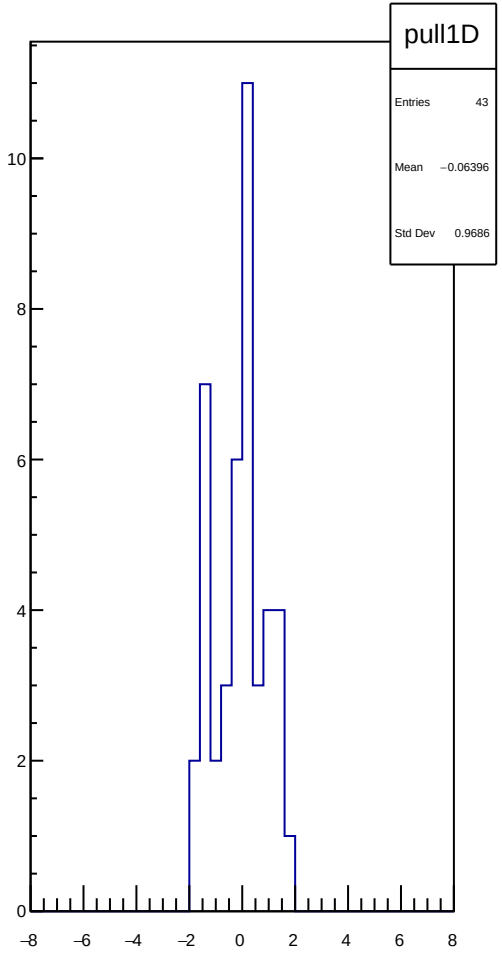

pull1D
Entries 43
Mean −0.06395
Std Dev 0.9687

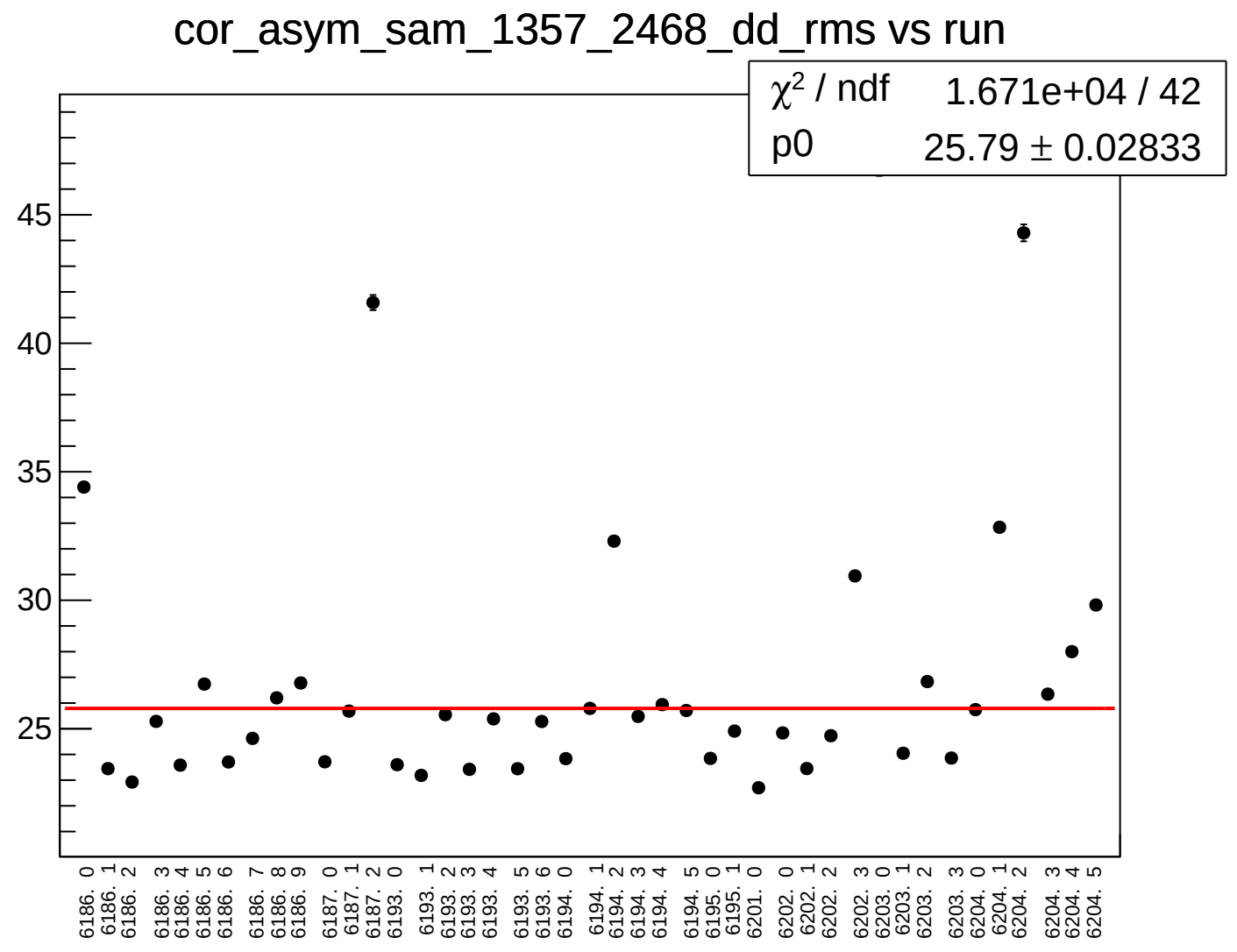

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.671e+04 / 42
p0 25.79 ± 0.02833
45
40
35
30
25
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 48.28 / 42
p0 175.5 ± 677.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −198.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.008122
Std Dev 1.06
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 4427 / 42
p0 439.5 ± 0.4793
560
540
520
500
480
460
440
420
400
380
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 40.52 / 42
p0 44.1 ± 40.07
pull
Entries 43
Mean 15.72
Std Dev 17.67


pull1D
Entries 43
Mean −0.06396
Std Dev 0.9686


cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.671e+04 / 42
p0 25.79 ± 0.02833
45
40
35
30
25
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
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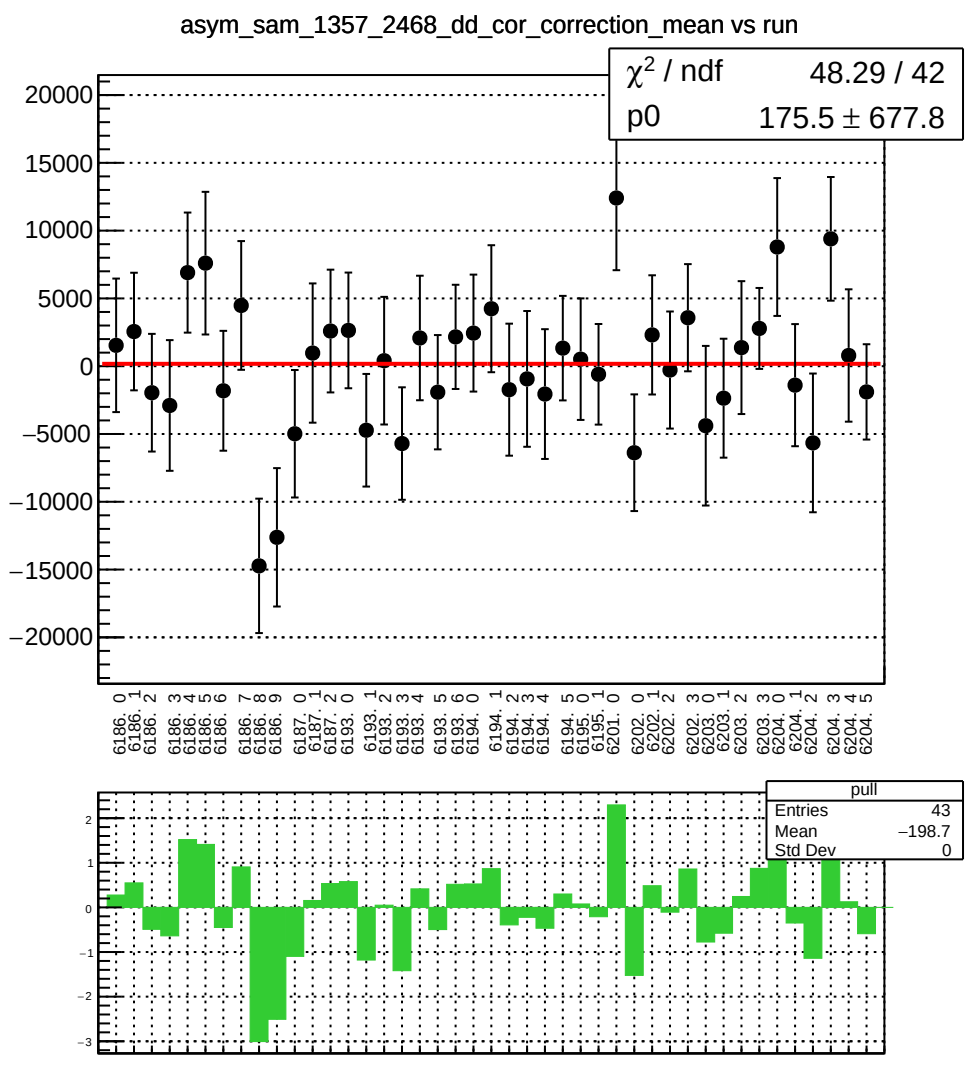
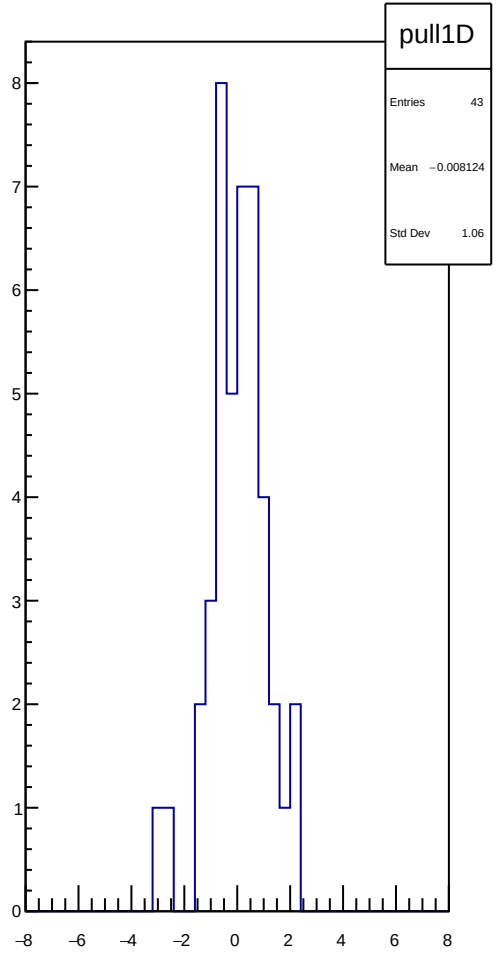
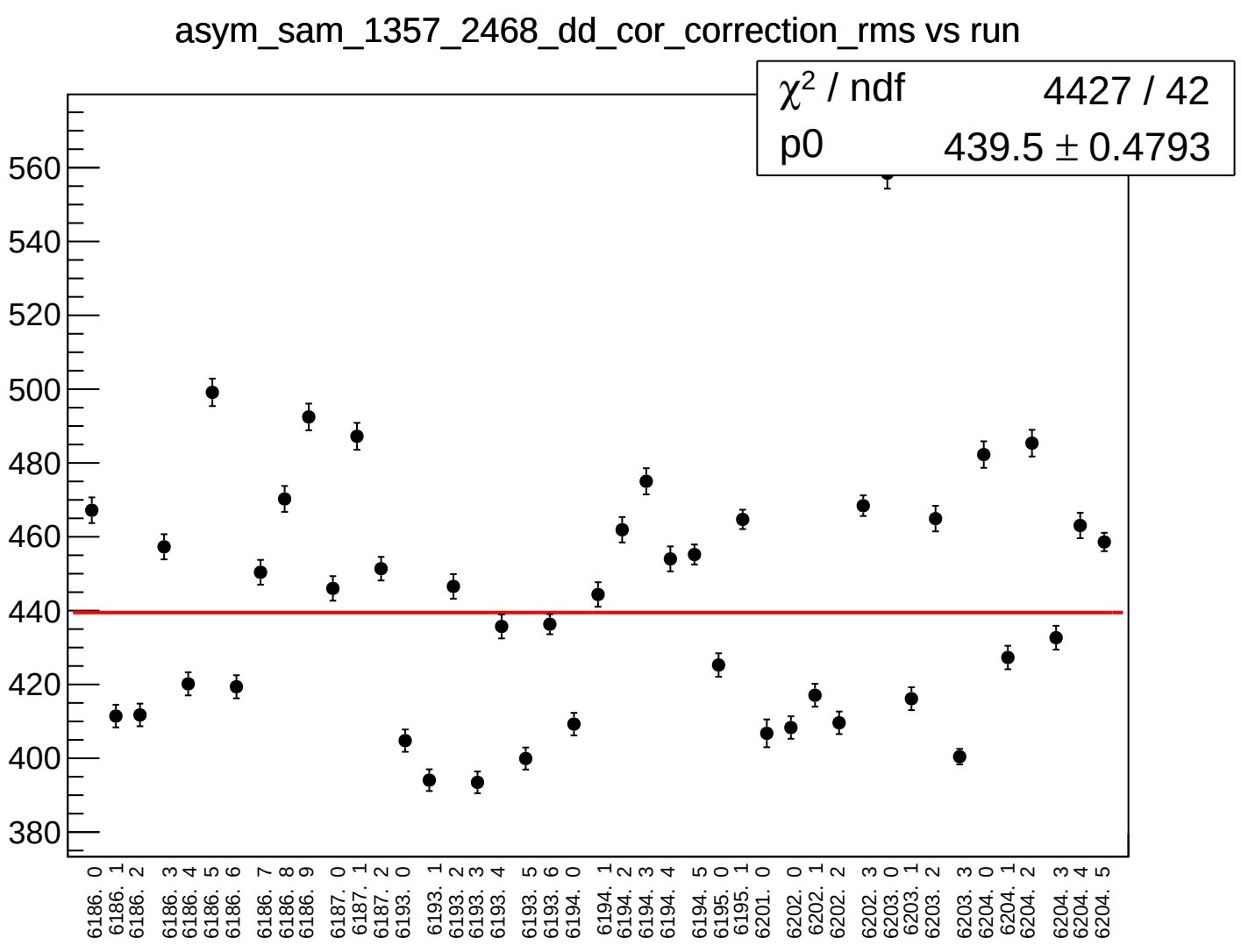
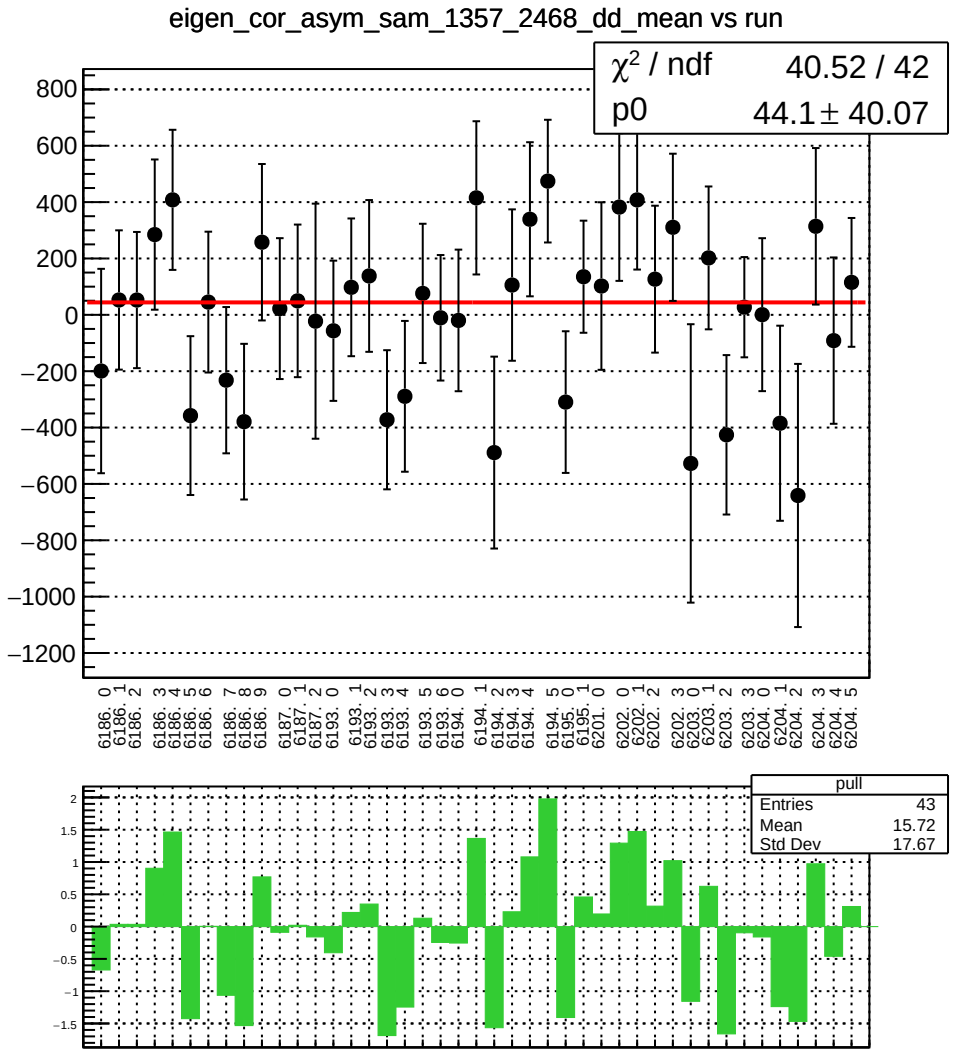
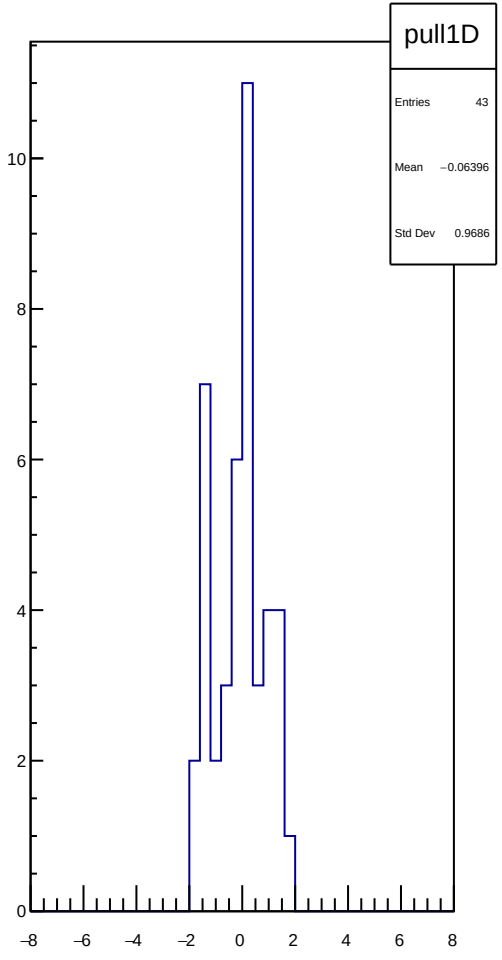
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

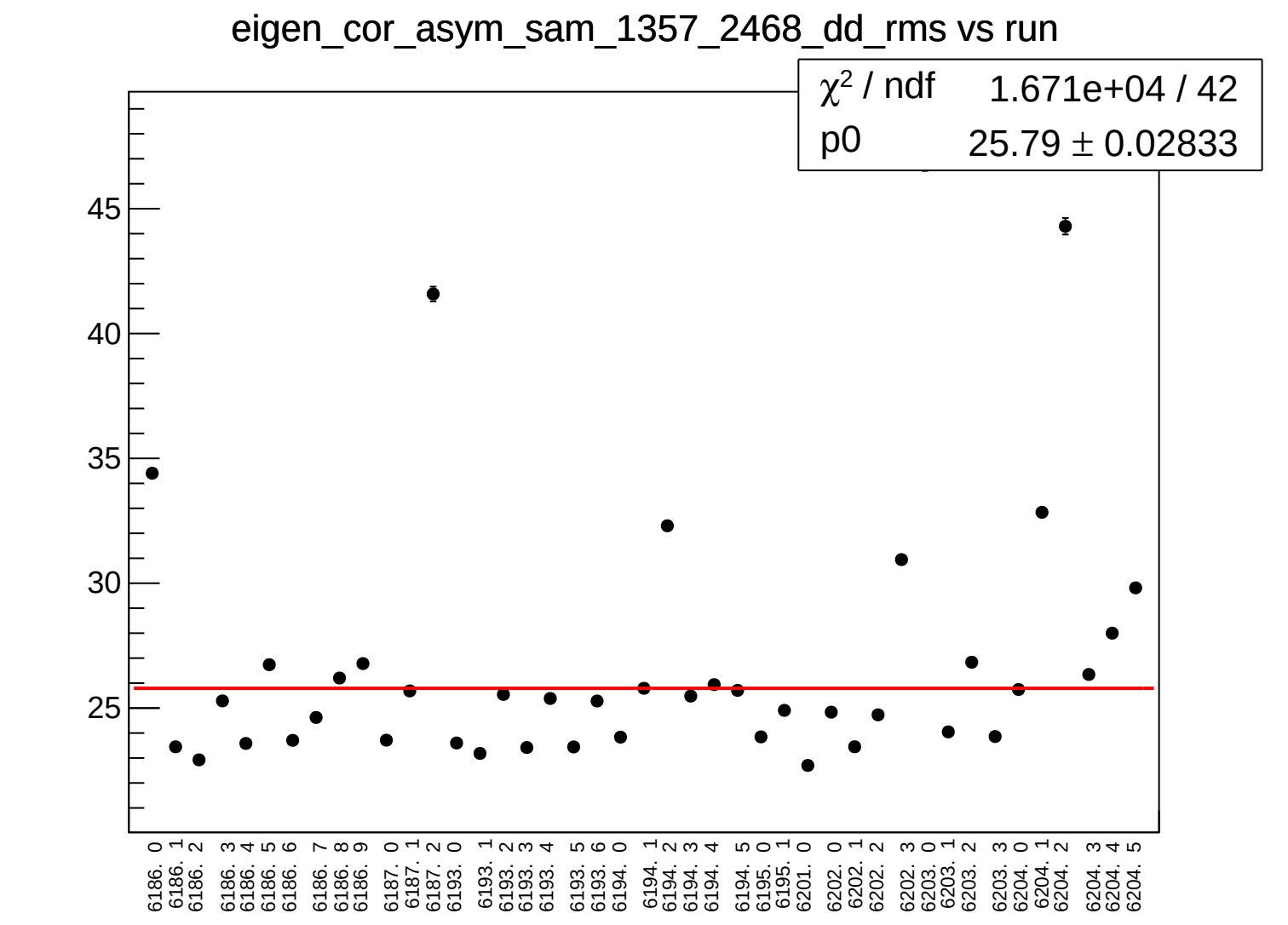

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 48.29 / 42
p0 175.5 ± 677.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −198.7
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.008124
Std Dev 1.06
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 4427 / 42
p0 439.5 ± 0.4793
560
540
520
500
480
460
440
420
400
380
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 40.52 / 42
p0 44.1 ± 40.07
pull
Entries 43
Mean 15.72
Std Dev 17.67


pull1D
Entries 43
Mean −0.06396
Std Dev 0.9686


eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.671e+04 / 42
p0 25.79 ± 0.02833
45
40
35
30
25
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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6204. 2
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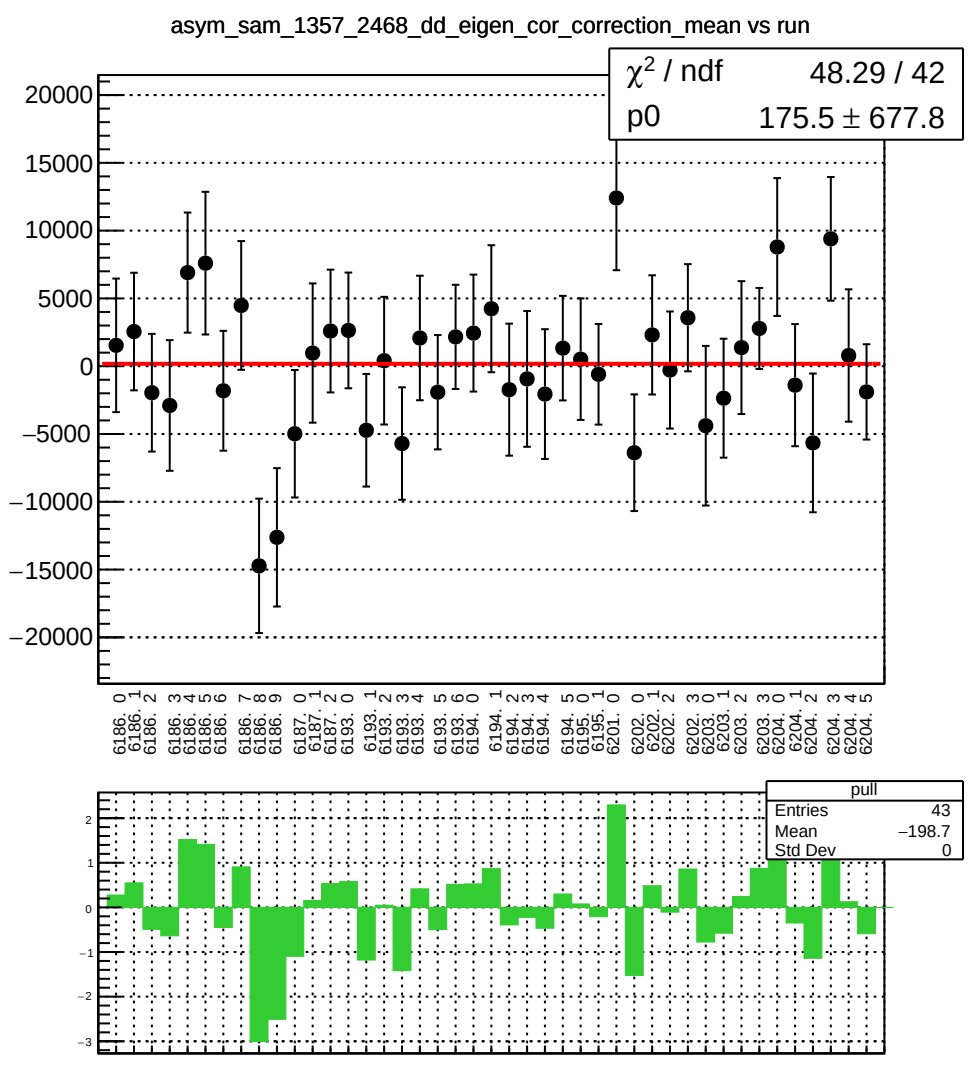
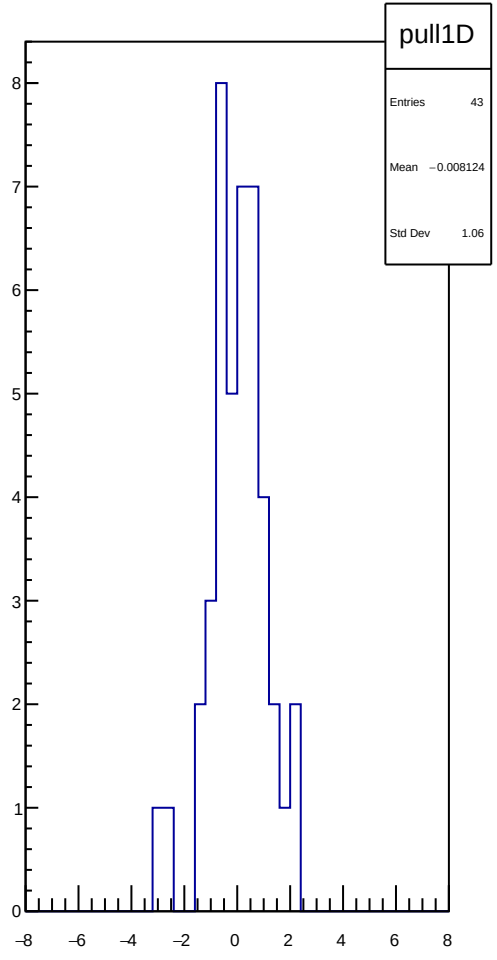
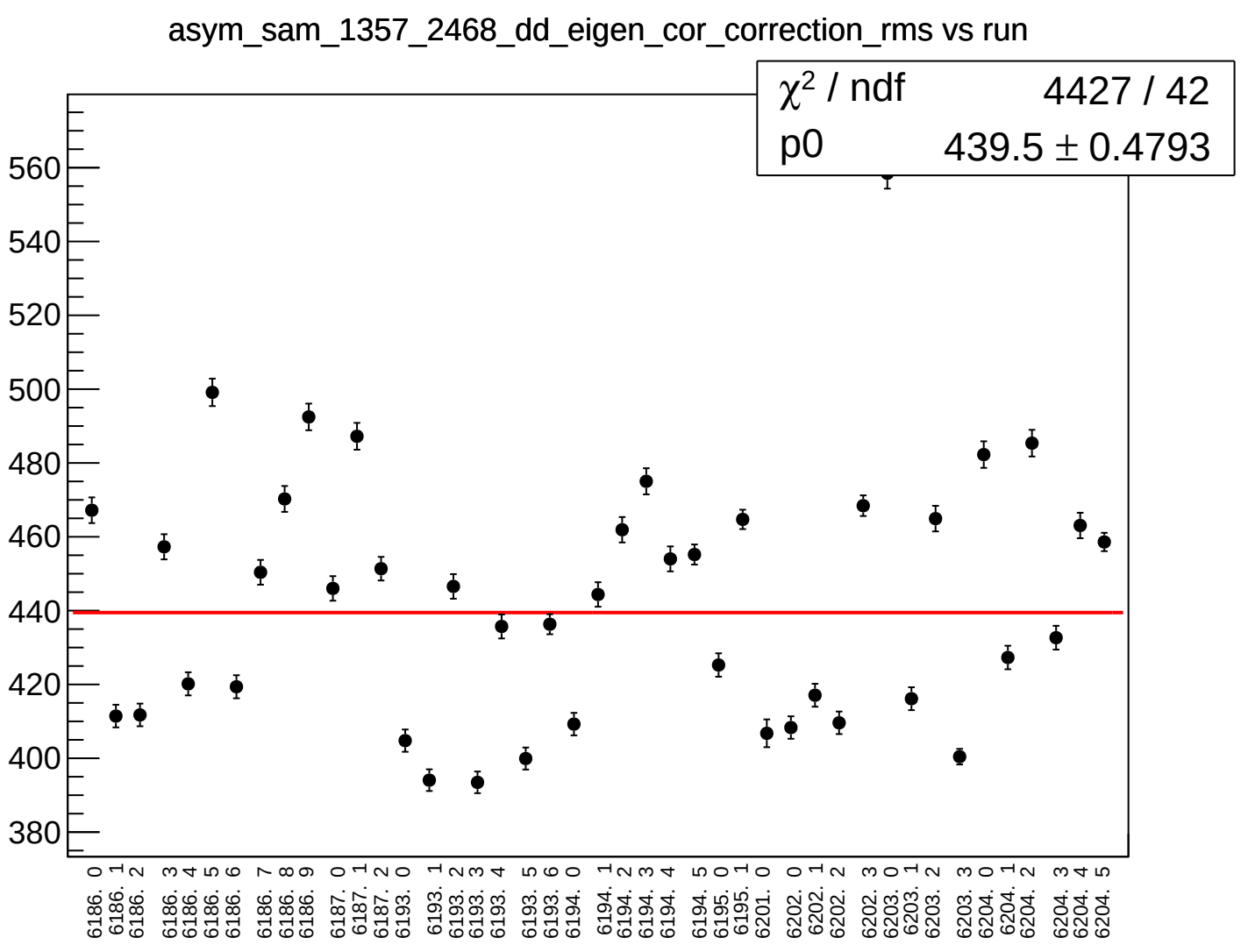
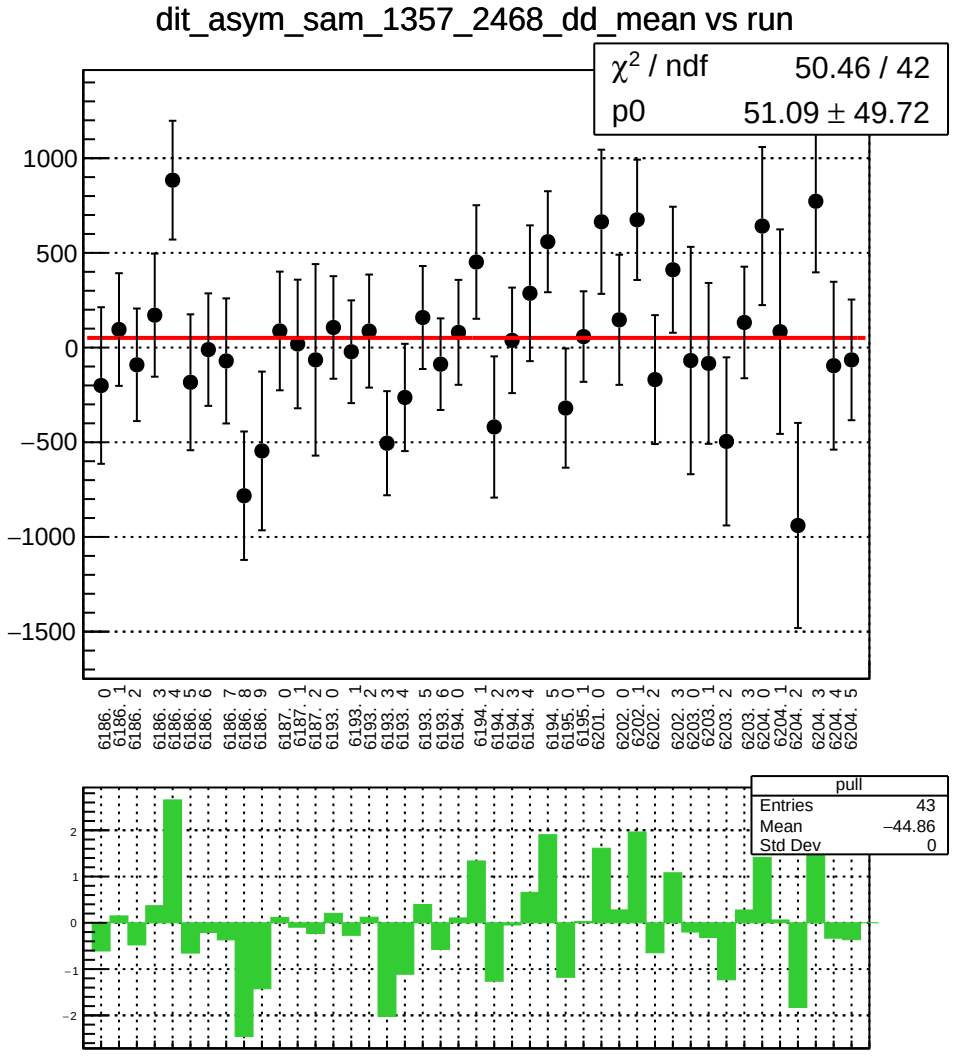
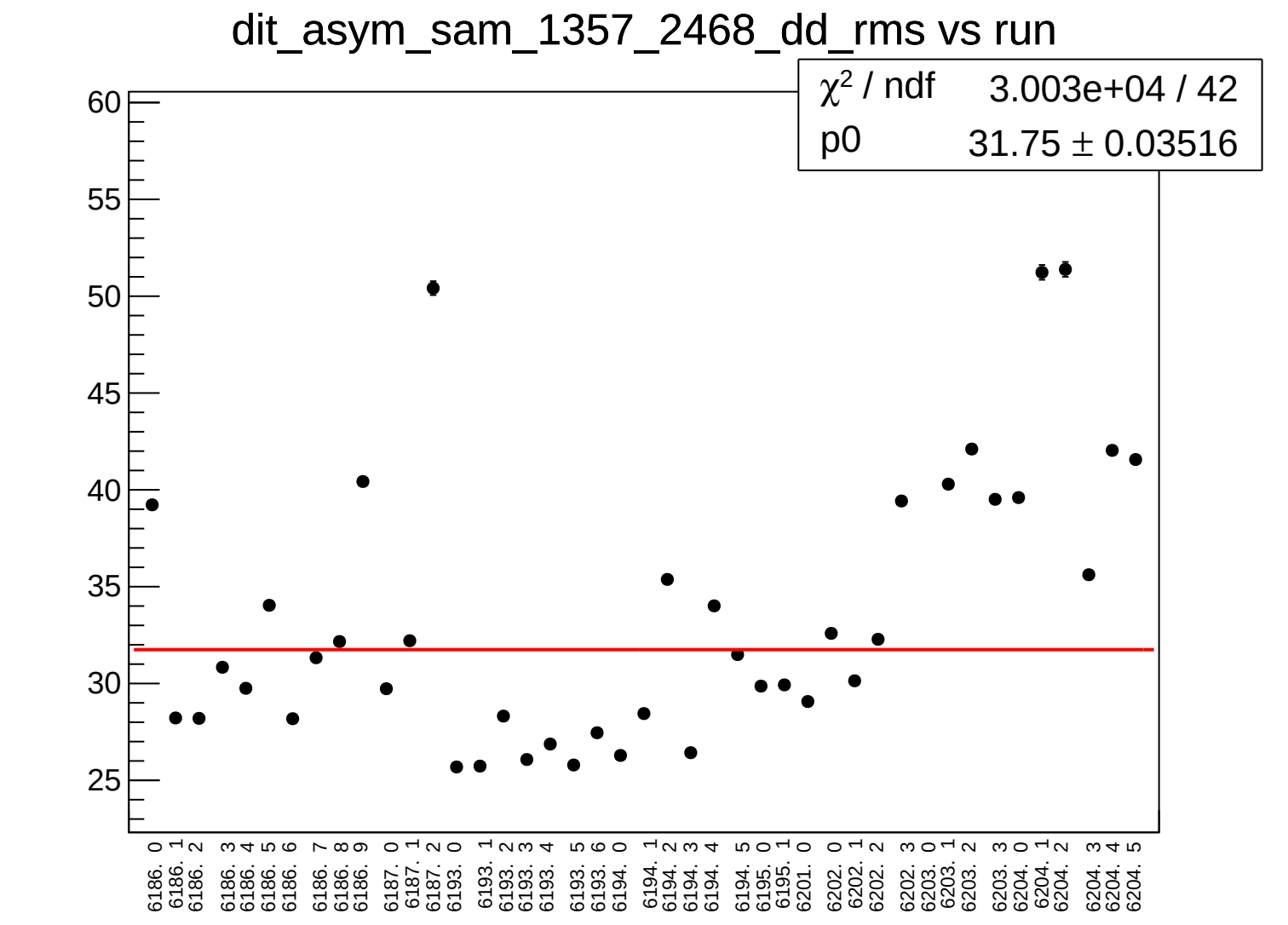
6204. 4
6204. 5

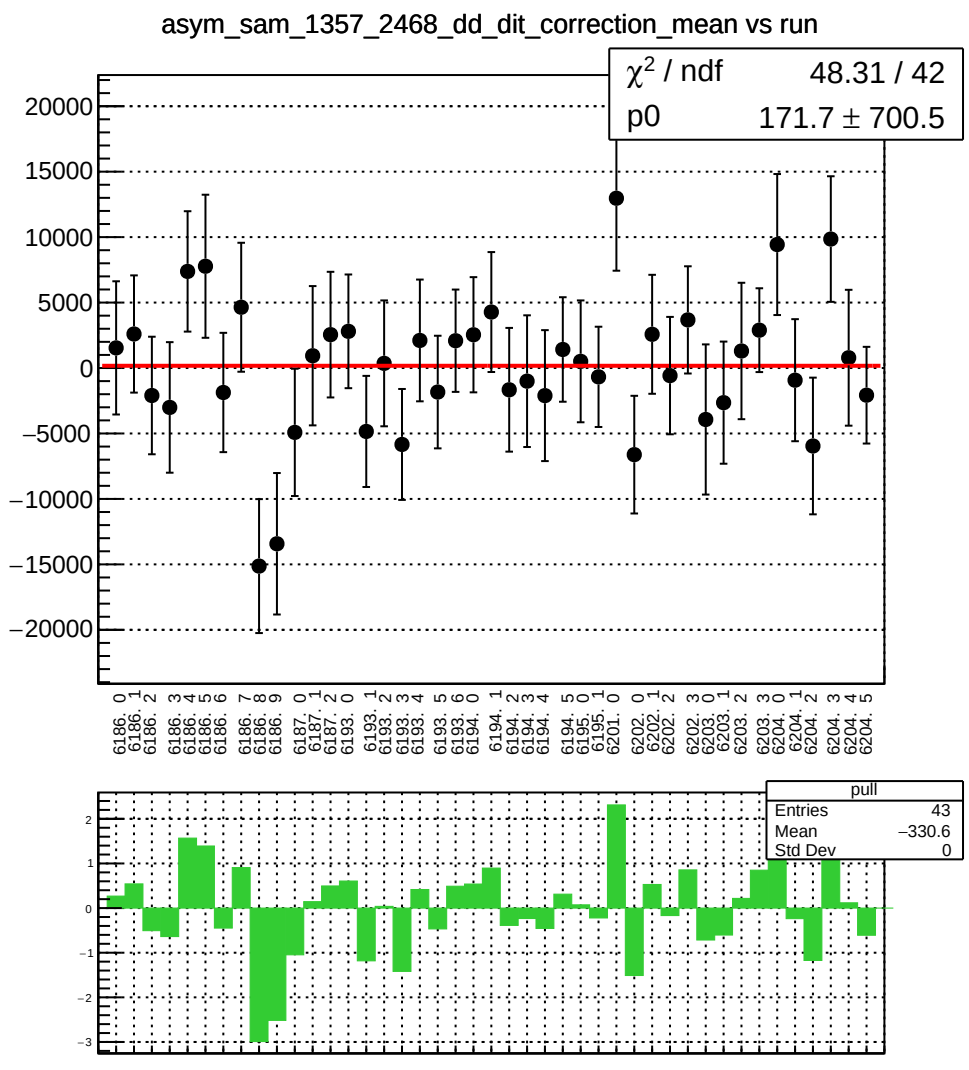

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 48.29 / 42
p0 175.5 ± 677.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −198.7
Std Dev 0
2
1
0
−1
−2
−3

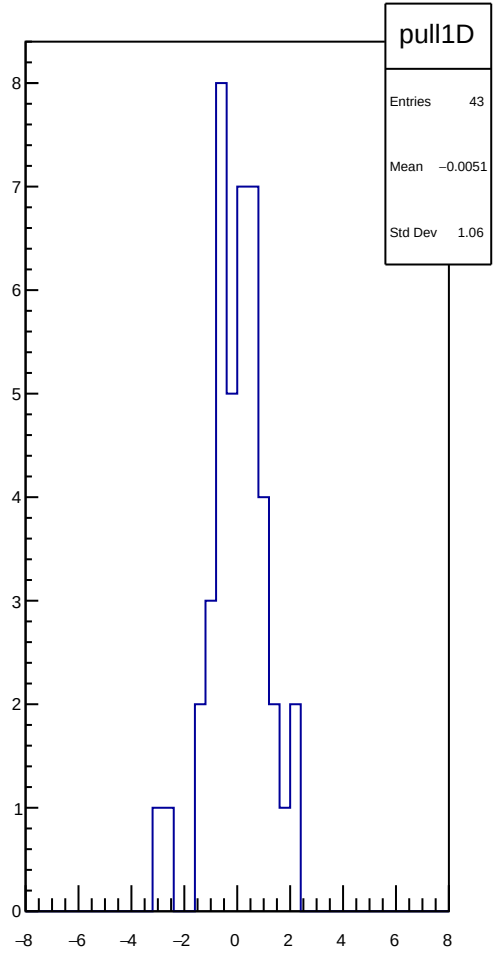

pull1D
Entries 43
Mean −0.008124
Std Dev 1.06
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

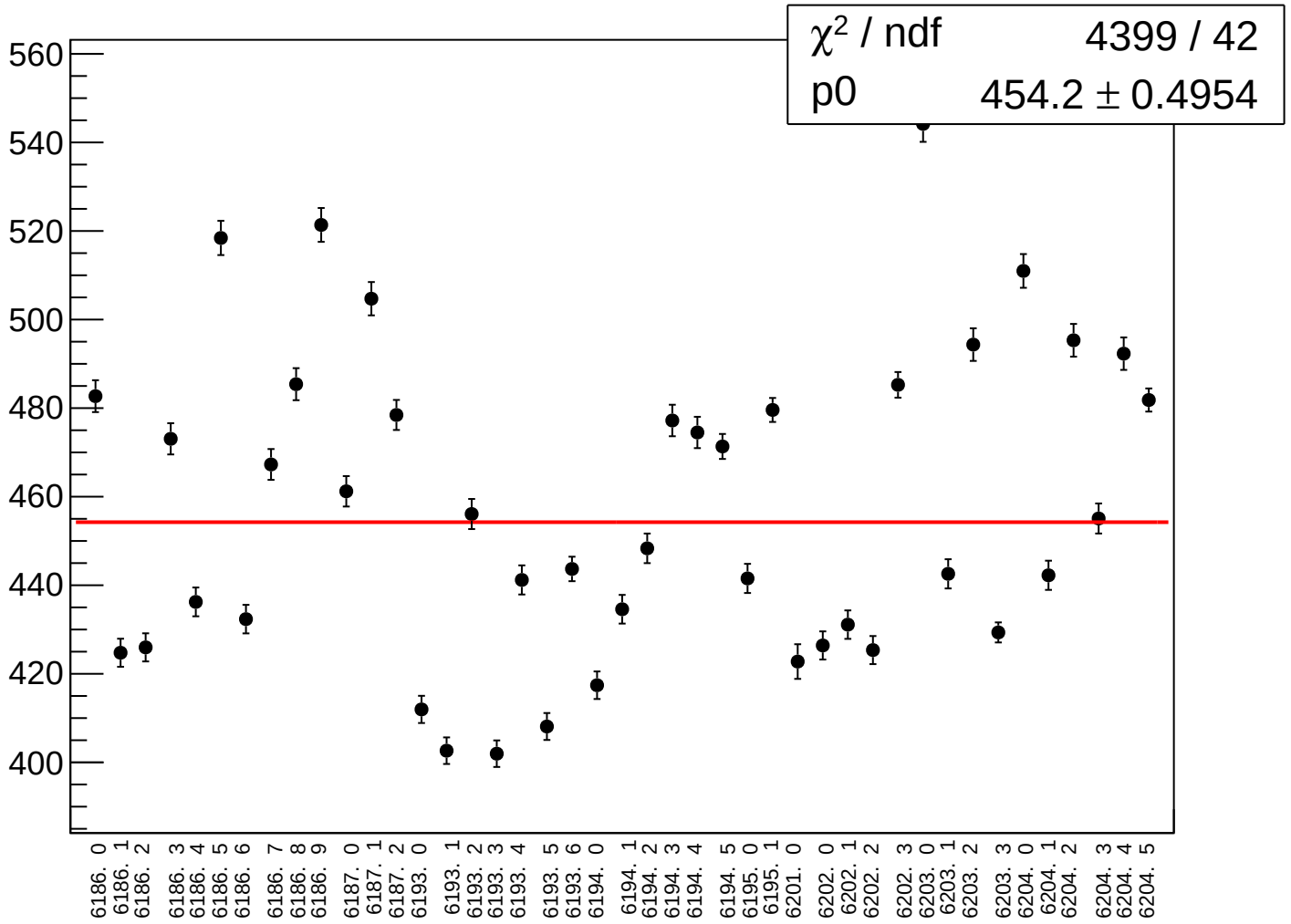

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 4427 / 42
p0 439.5 ± 0.4793
560
540
520
500
480
460
440
420
400
380
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

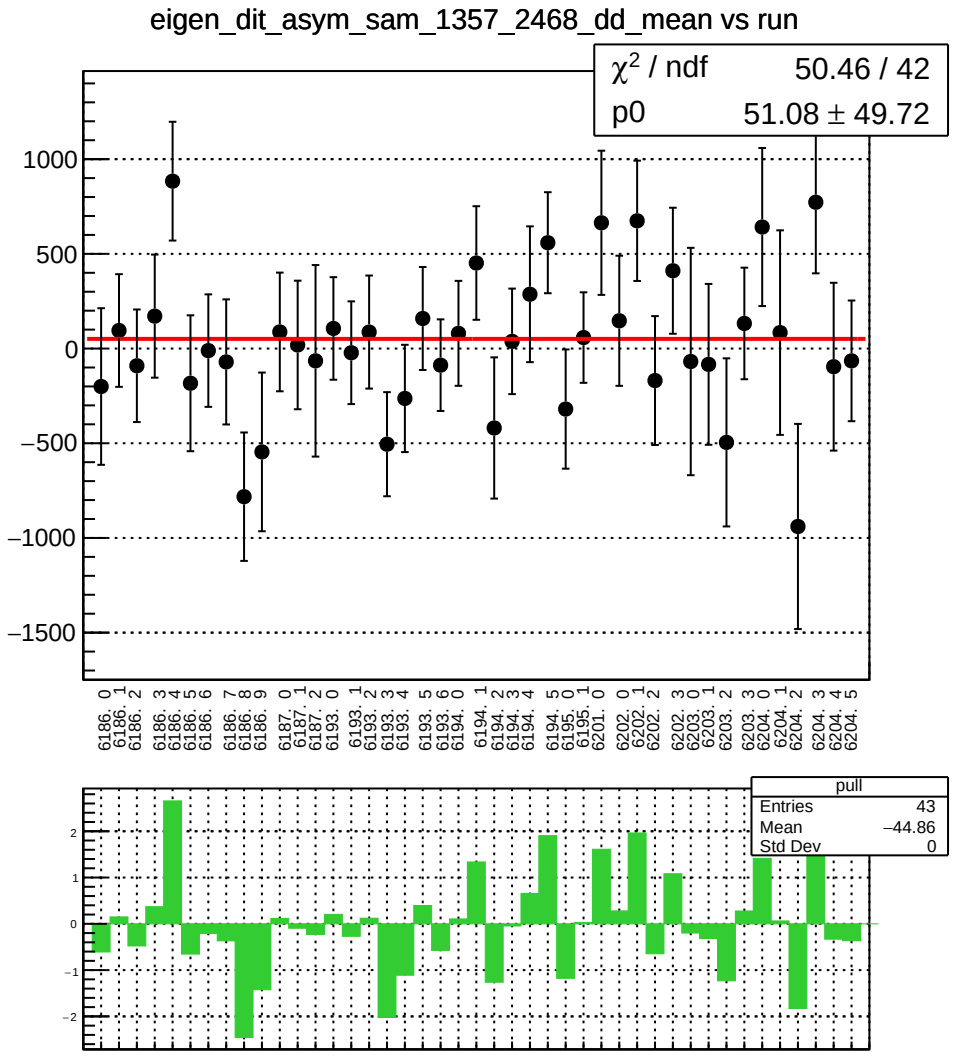

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 50.46 / 42
p0 51.09 ± 49.72
1000
500
0
−500
−1000
−1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −44.86
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.0291
Std Dev 1.083
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.003e+04 / 42
p0 31.75 ± 0.03516
60
55
50
45
40
35
30
25
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 48.31 / 42
p0 171.7 ± 700.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −330.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.0051
Std Dev 1.06
8
7
6
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 4399 / 42
p0 454.2 ± 0.4954
560
540
520
500
480
460
440
420
400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 50.46 / 42
p0 51.08 ± 49.72
1000
500
0
−500
−1000
−1500
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
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6193. 5
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6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
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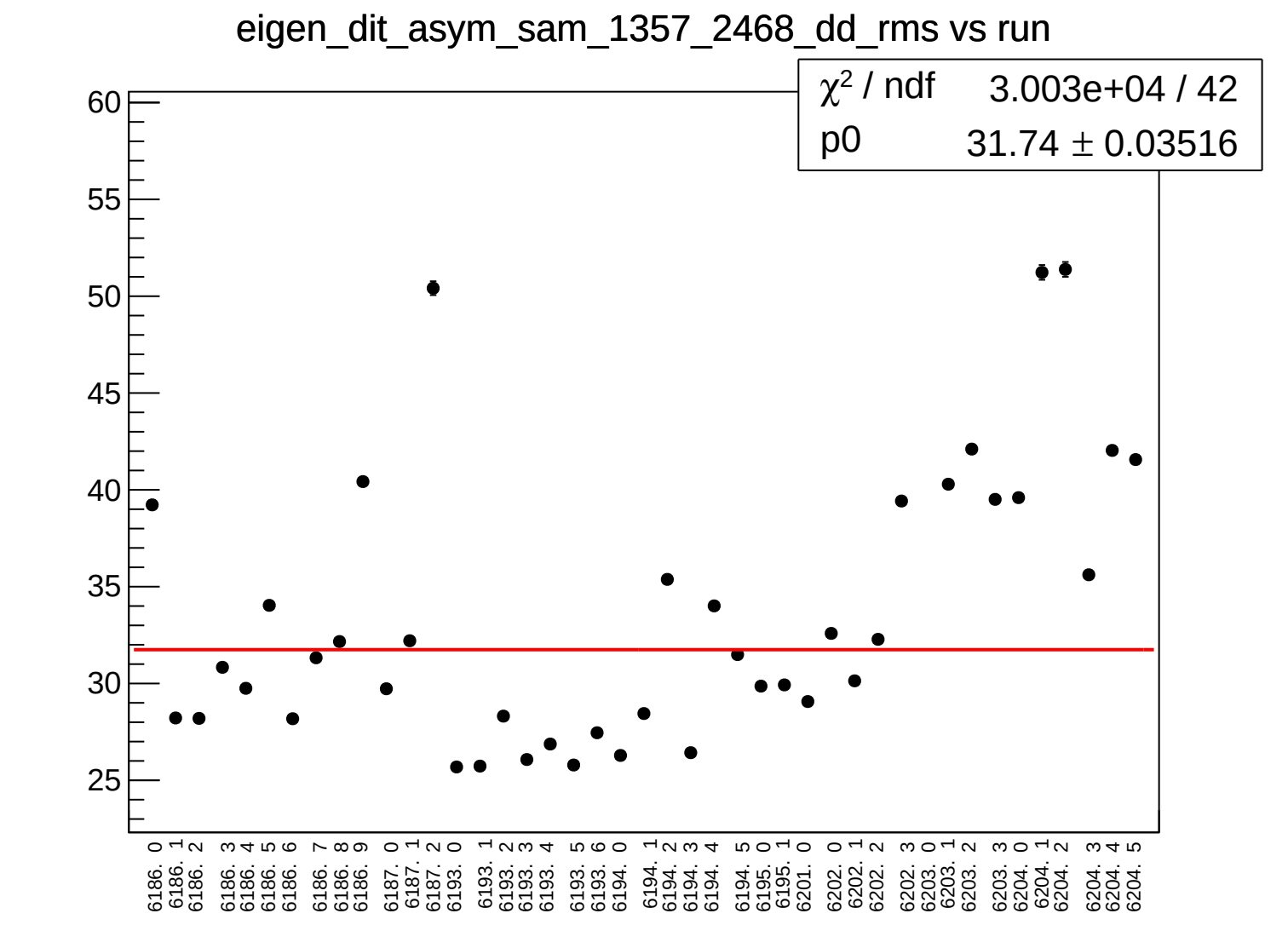
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −44.86
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02911
Std Dev 1.083
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.003e+04 / 42
p0 31.74 ± 0.03516
60
55
50
45
40
35
30
25
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
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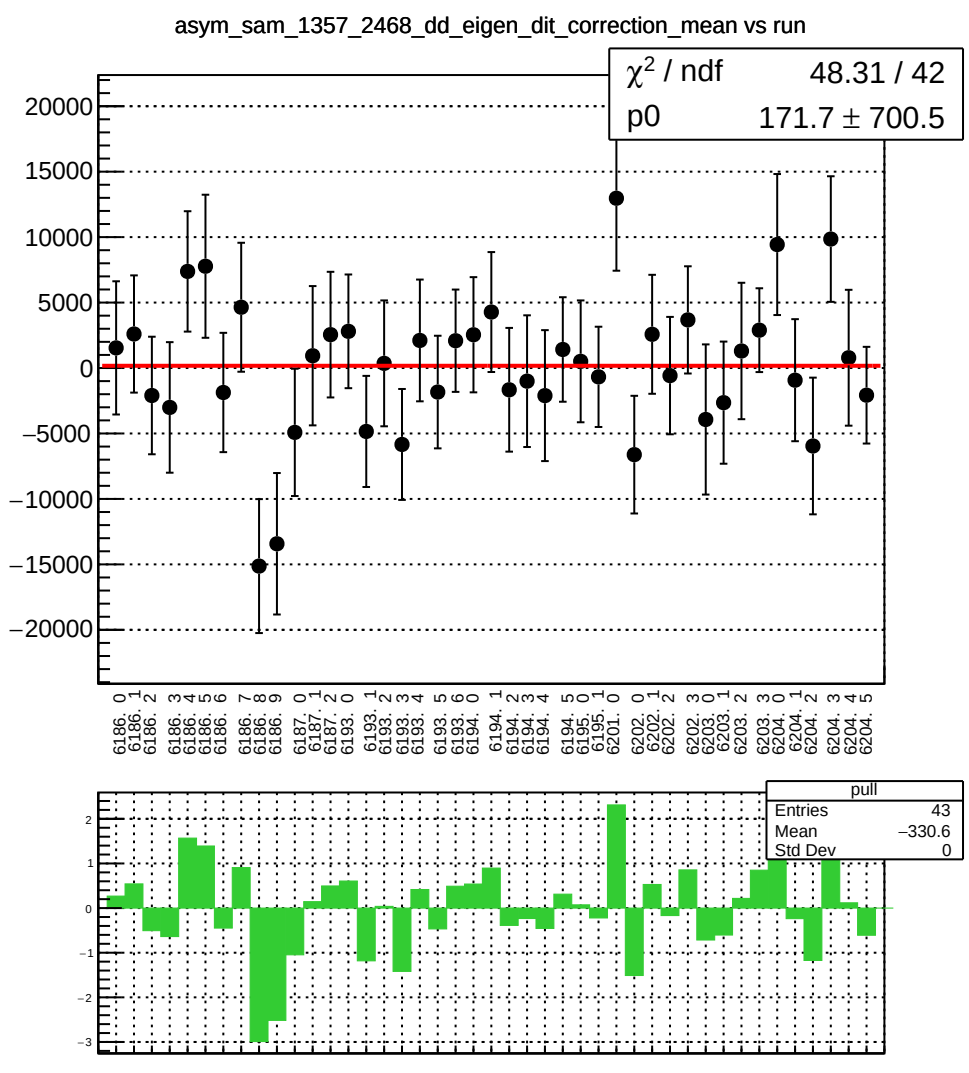
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 48.31 / 42
p0 171.7 ± 700.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
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6187. 2
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6193. 6
6194. 0
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6194. 2
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6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
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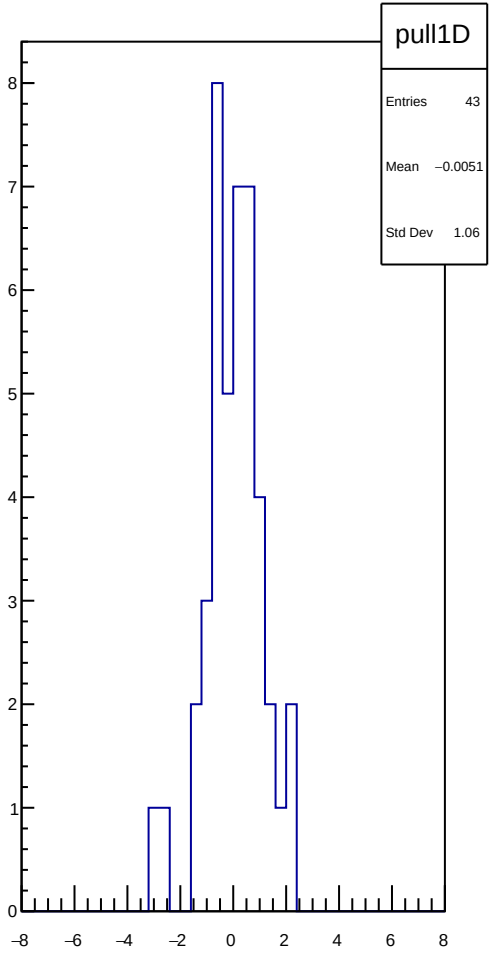
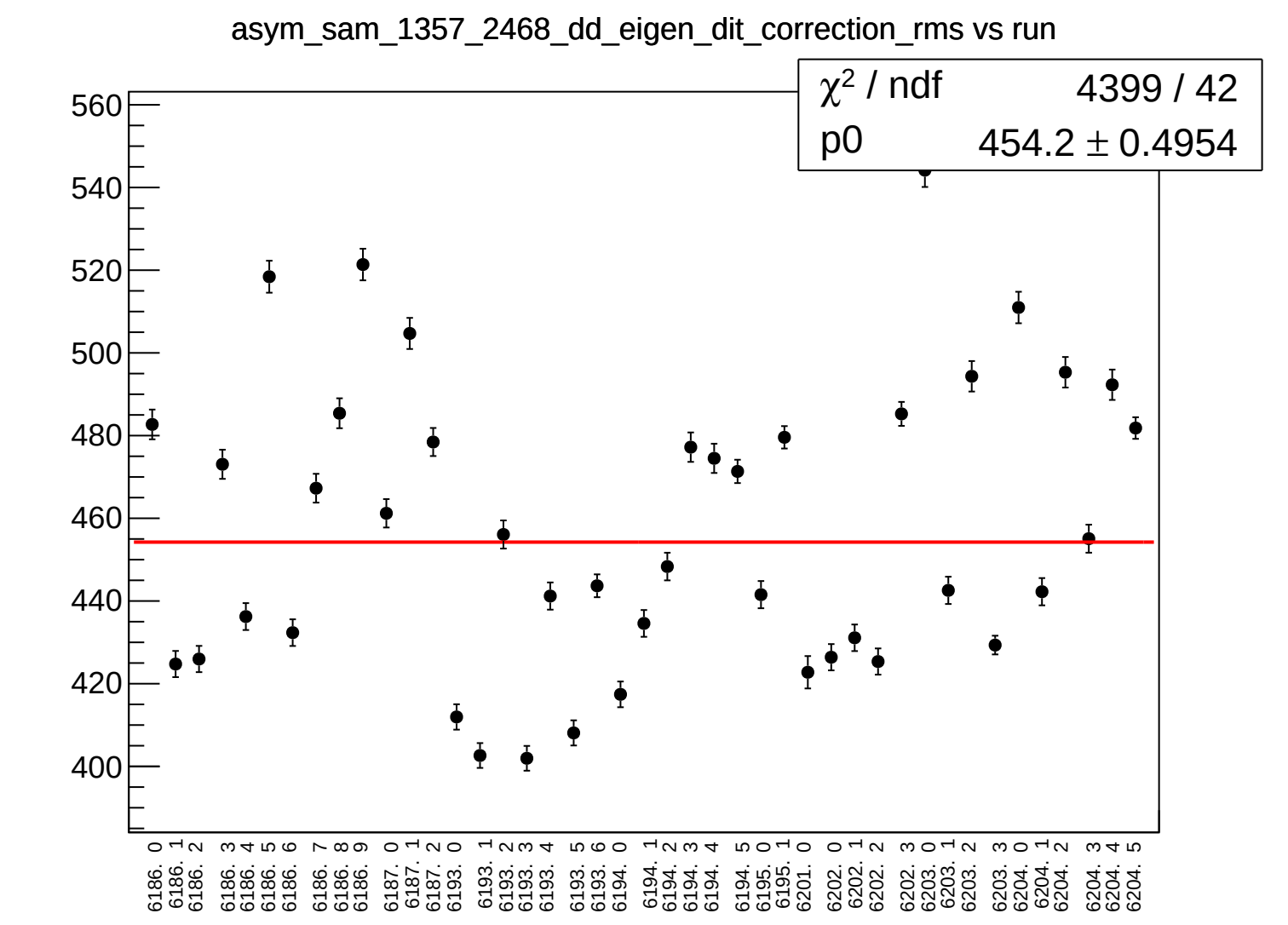
6204. 5
pull
Entries 43
Mean −330.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 43
Mean −0.0051
Std Dev 1.06
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 4399 / 42
p0 454.2 ± 0.4954
560
540
520
500
480
460
440
420
400
6186. 0
6186. 1
6186. 2
6186. 3
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6194. 5
6195. 0
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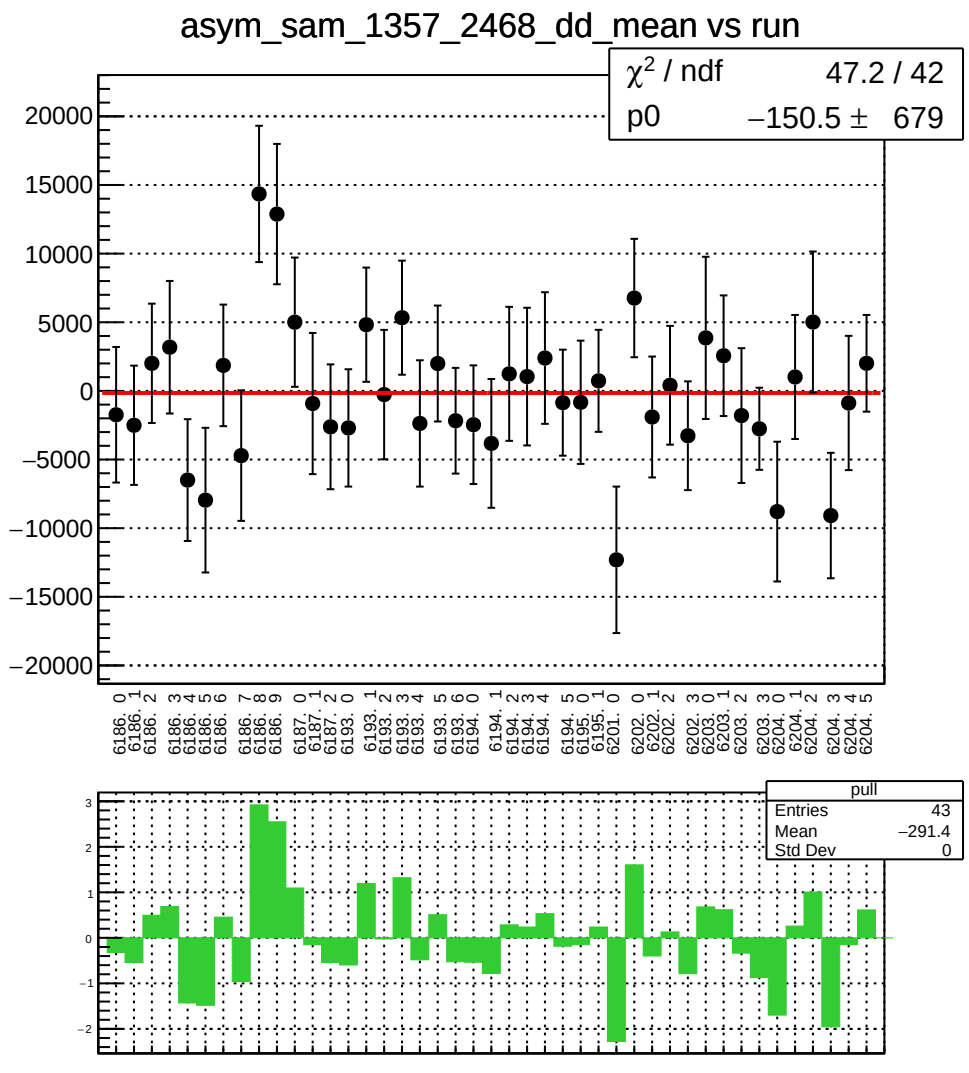
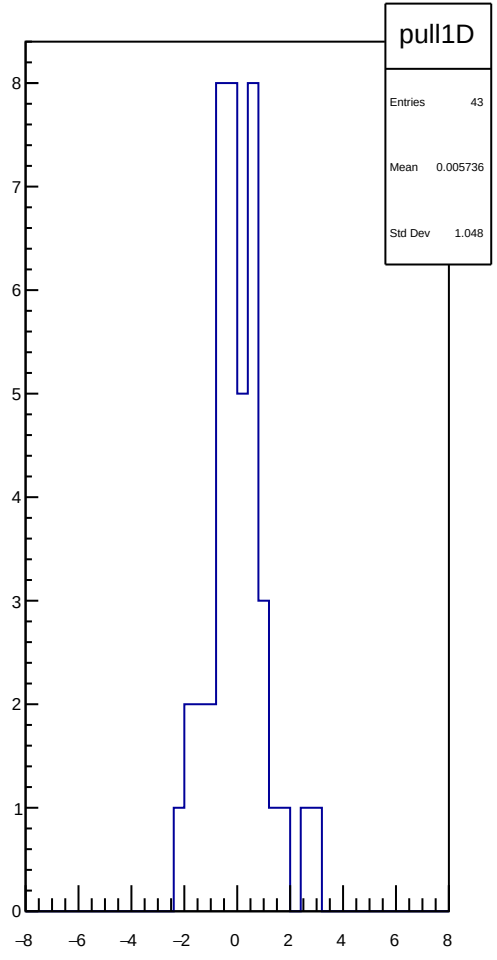
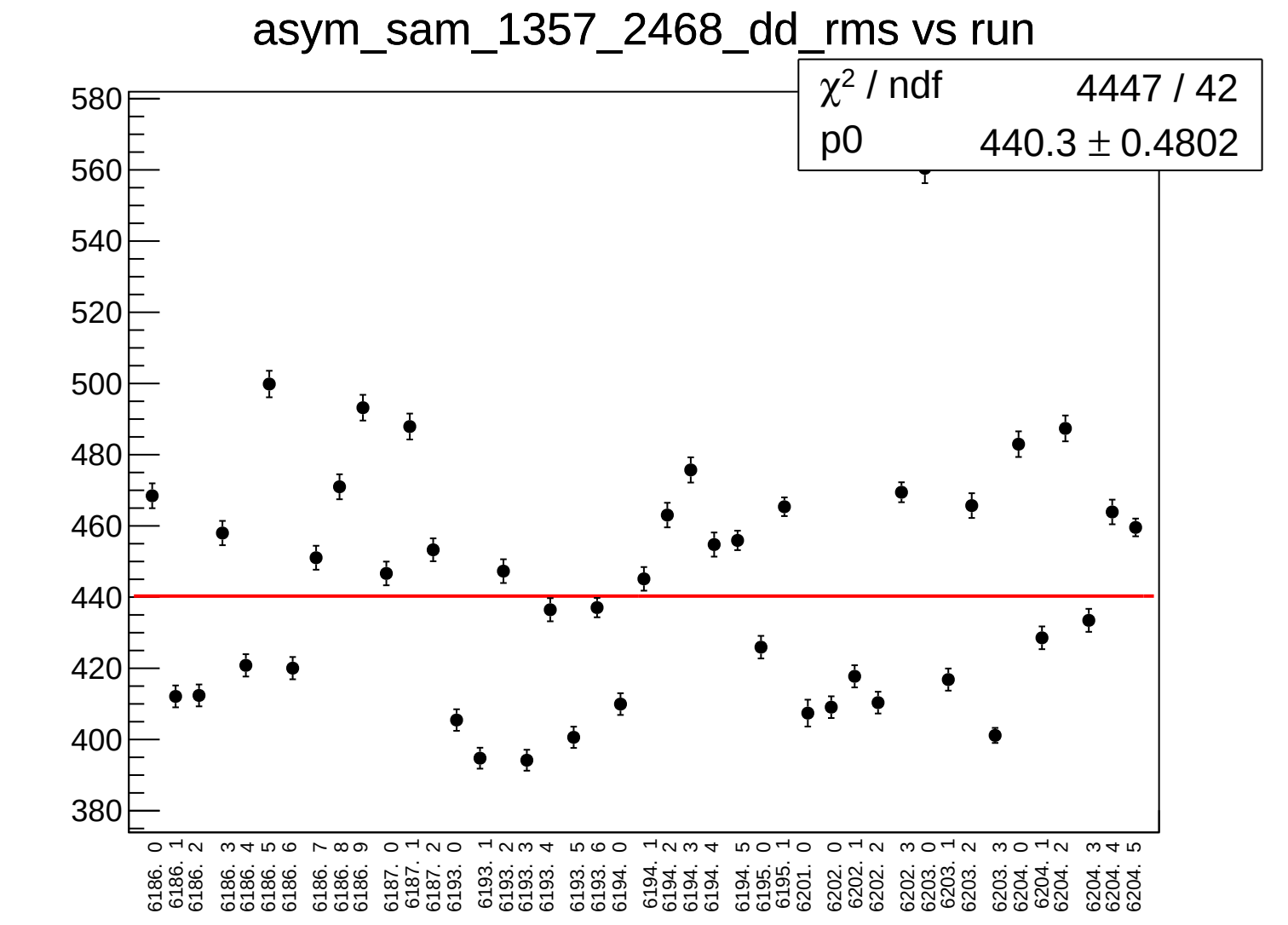
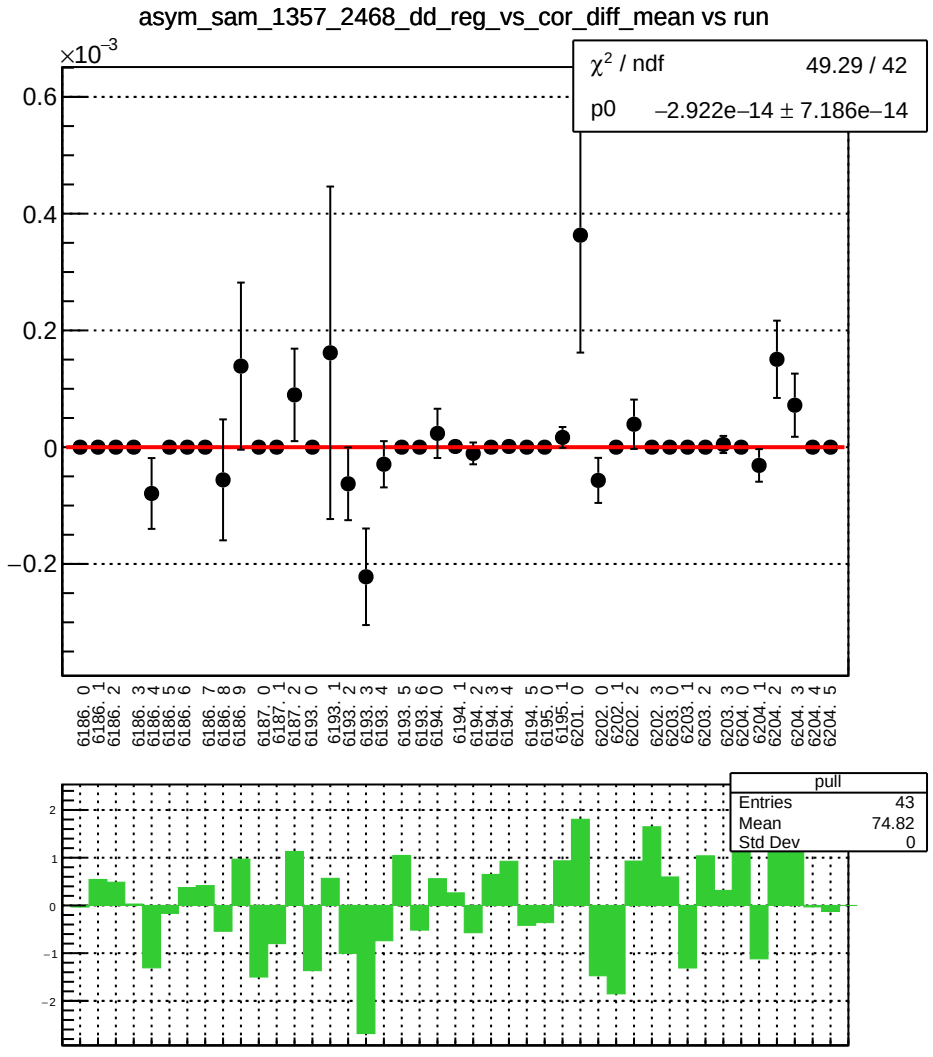
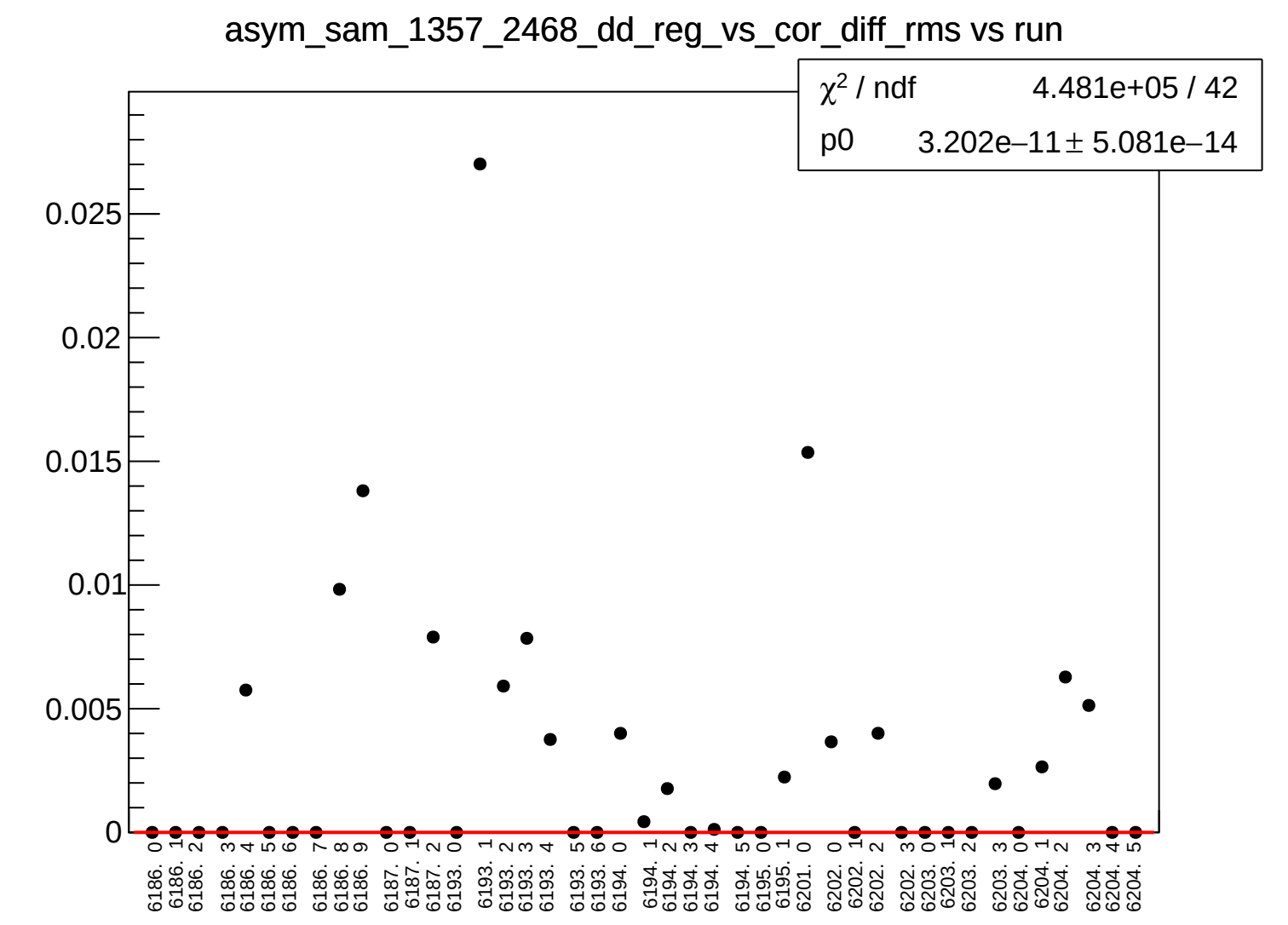
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

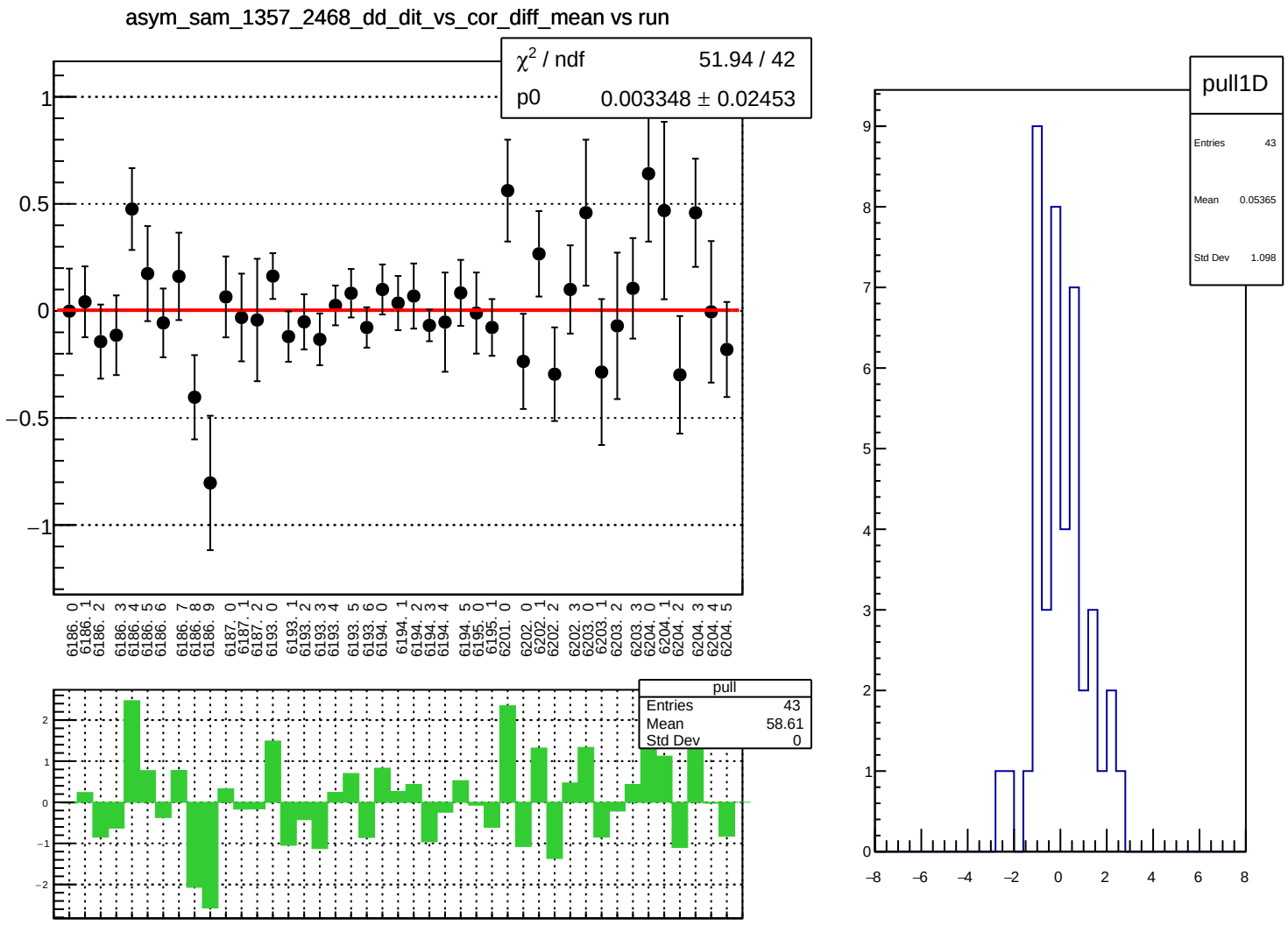

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 47.2 / 42
p0 −150.5 ± 679
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −291.4
Std Dev 0
3
2
1
0
−1
−2

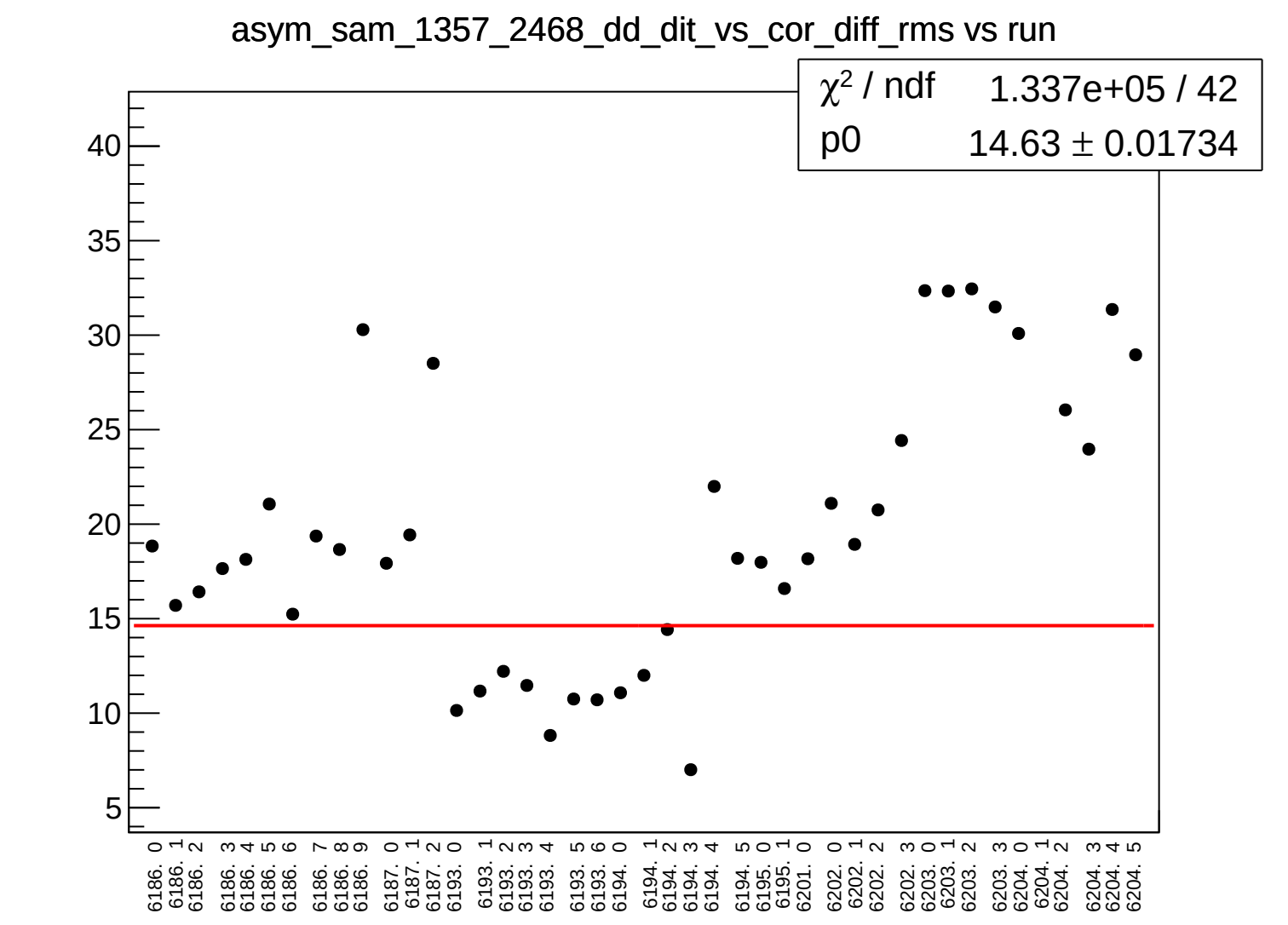

pull1D
Entries 43
Mean 0.005736
Std Dev 1.048
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

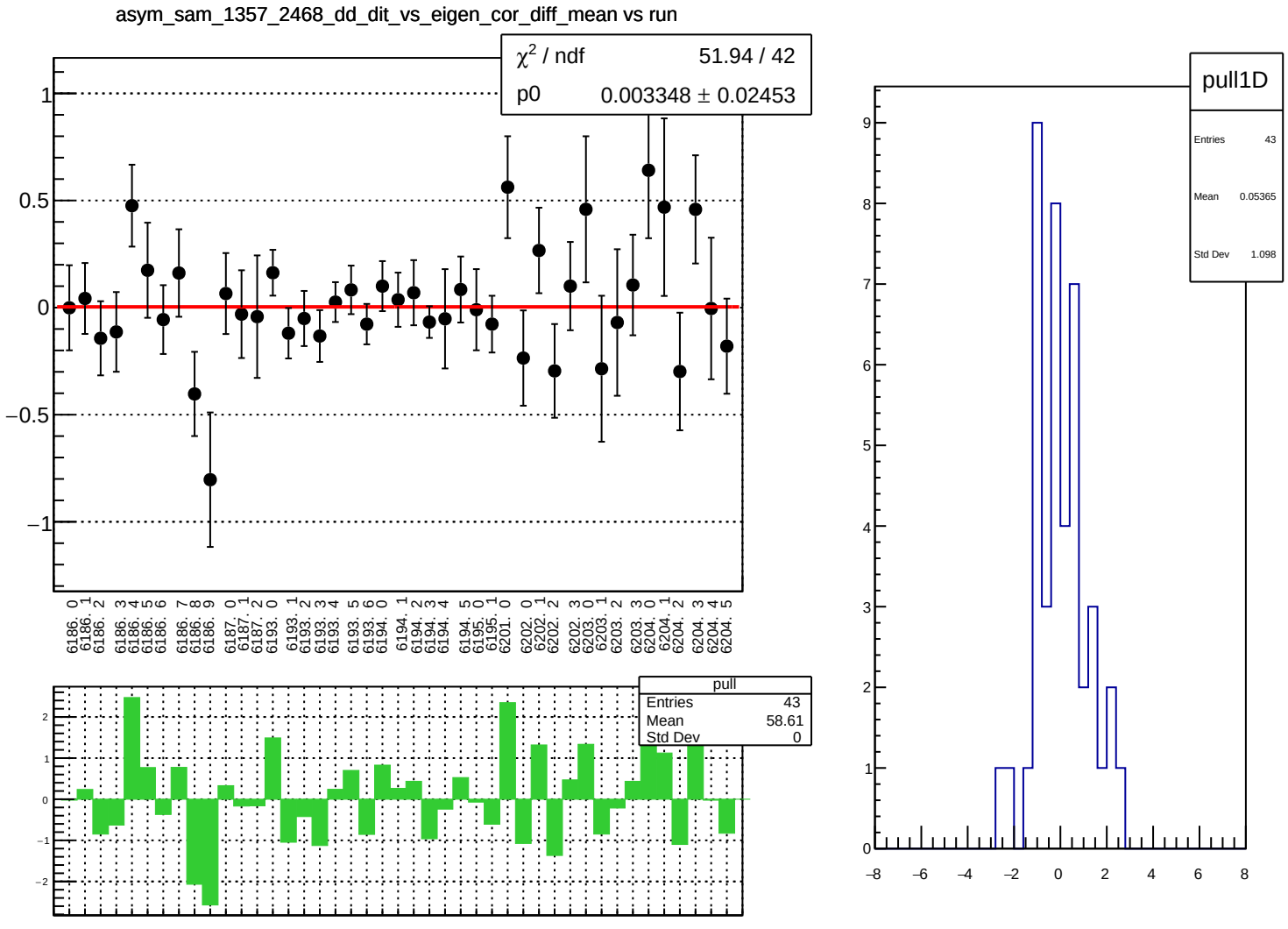

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4447 / 42
p0 440.3 ± 0.4802
580
560
540
520
500
480
460
440
420
400
380
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

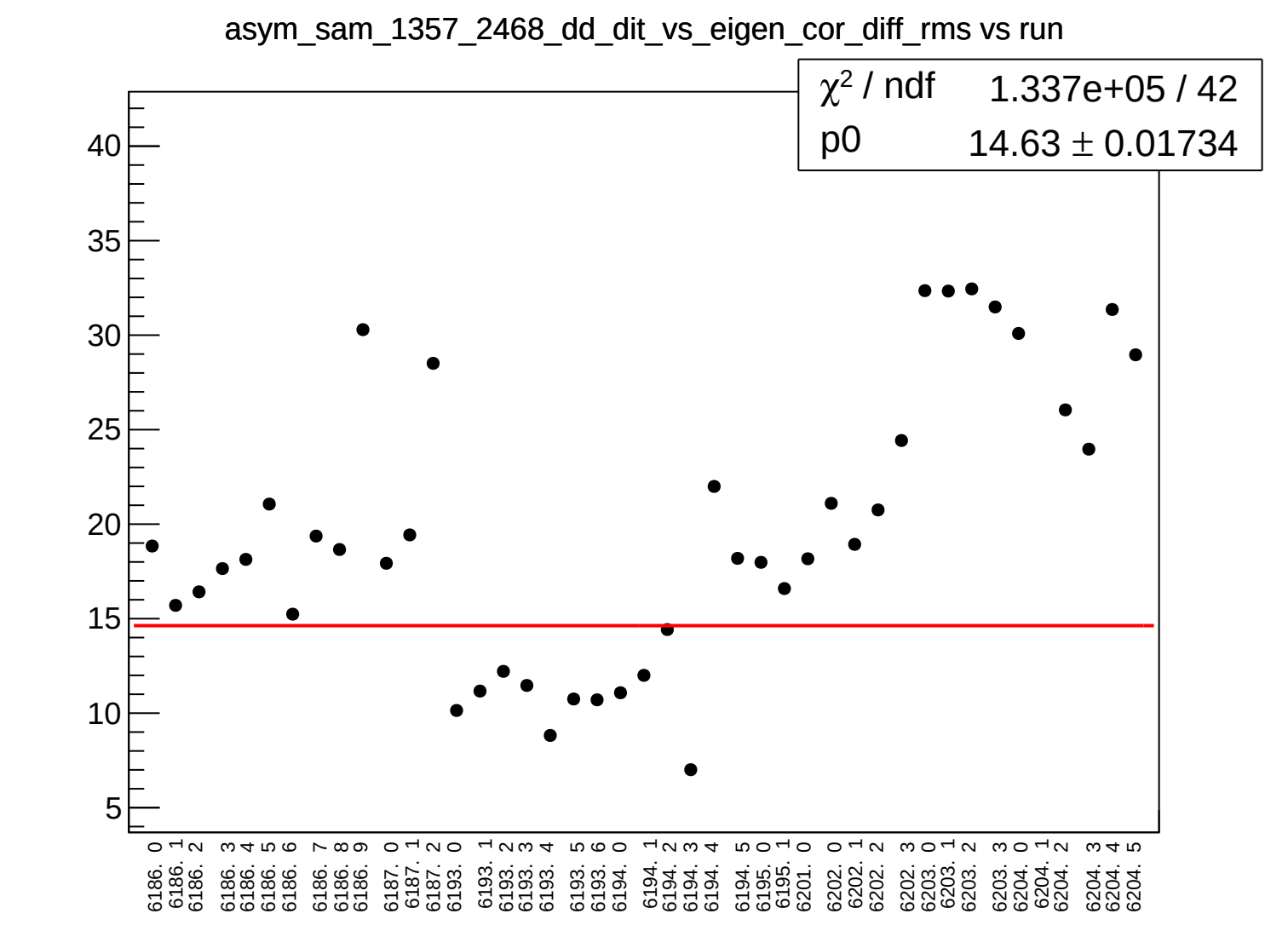

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 49.29 / 42
p0 −2.922e−14 ± 7.186e−14
0.6
0.4
0.2
0
−0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 74.82
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.05348
Std Dev 1.069
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

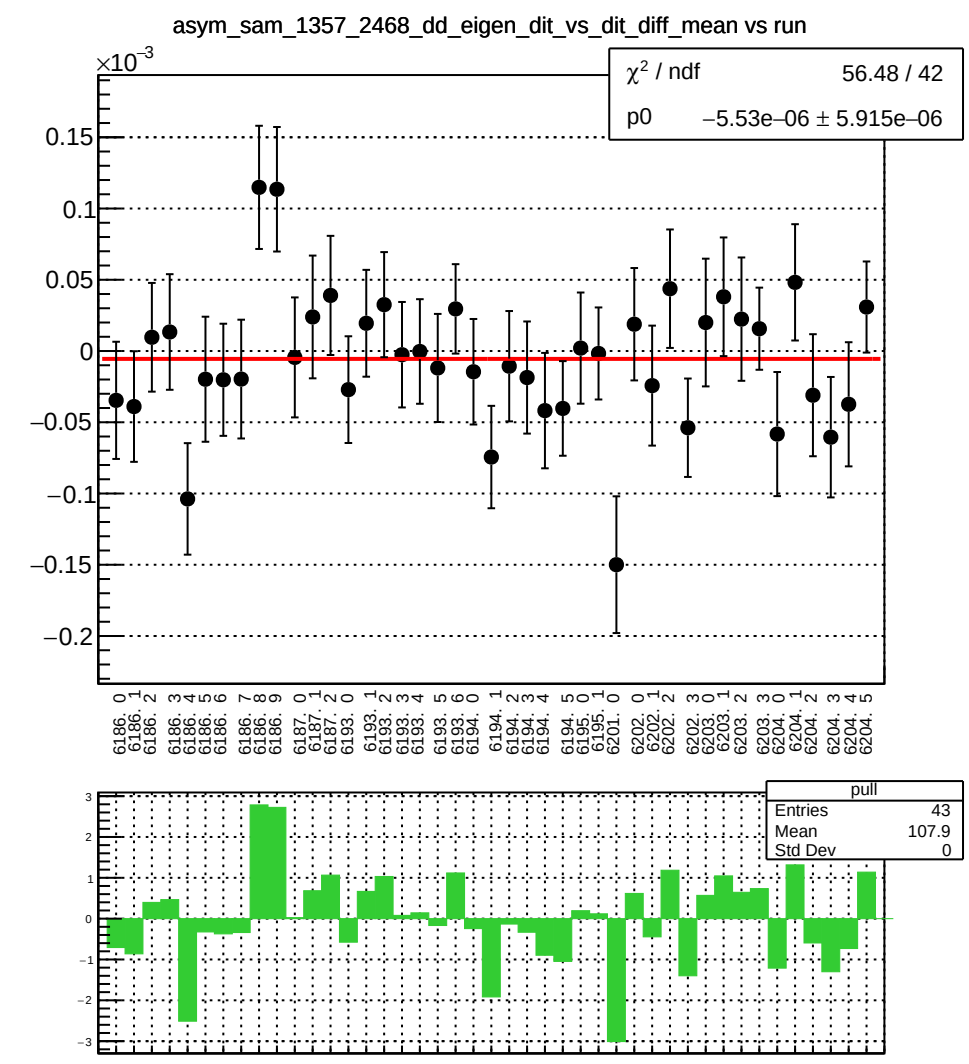

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 4.481e+05 / 42
p0 3.202e−11 ± 5.081e−14
0.025
0.02
0.015
0.01
0.005
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

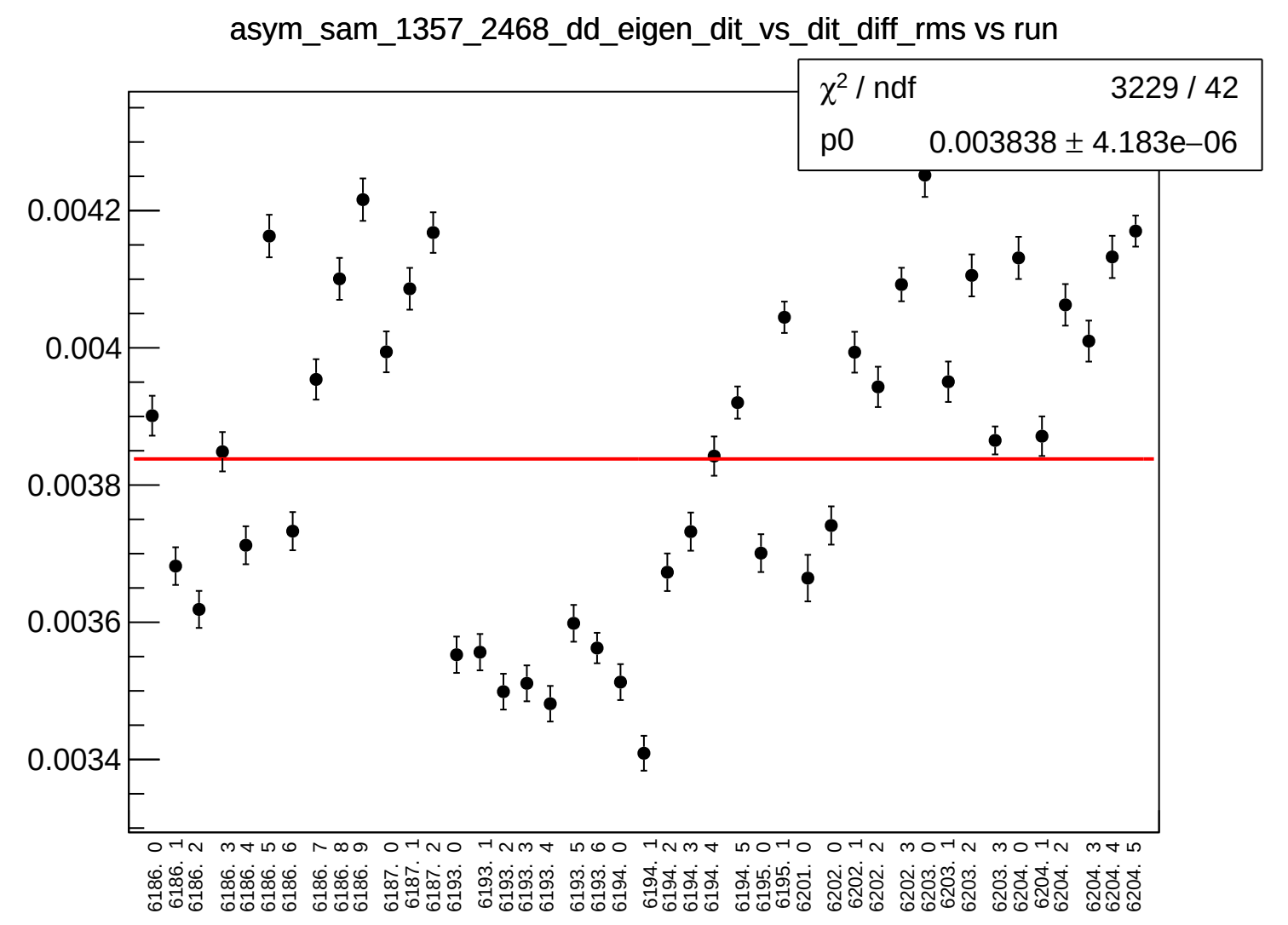

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 51.94 / 42
p0 0.003348 ± 0.02453
pull
Entries 43
Mean 58.61
Std Dev 0
pull1D
Entries 43
Mean 0.05365
Std Dev 1.098

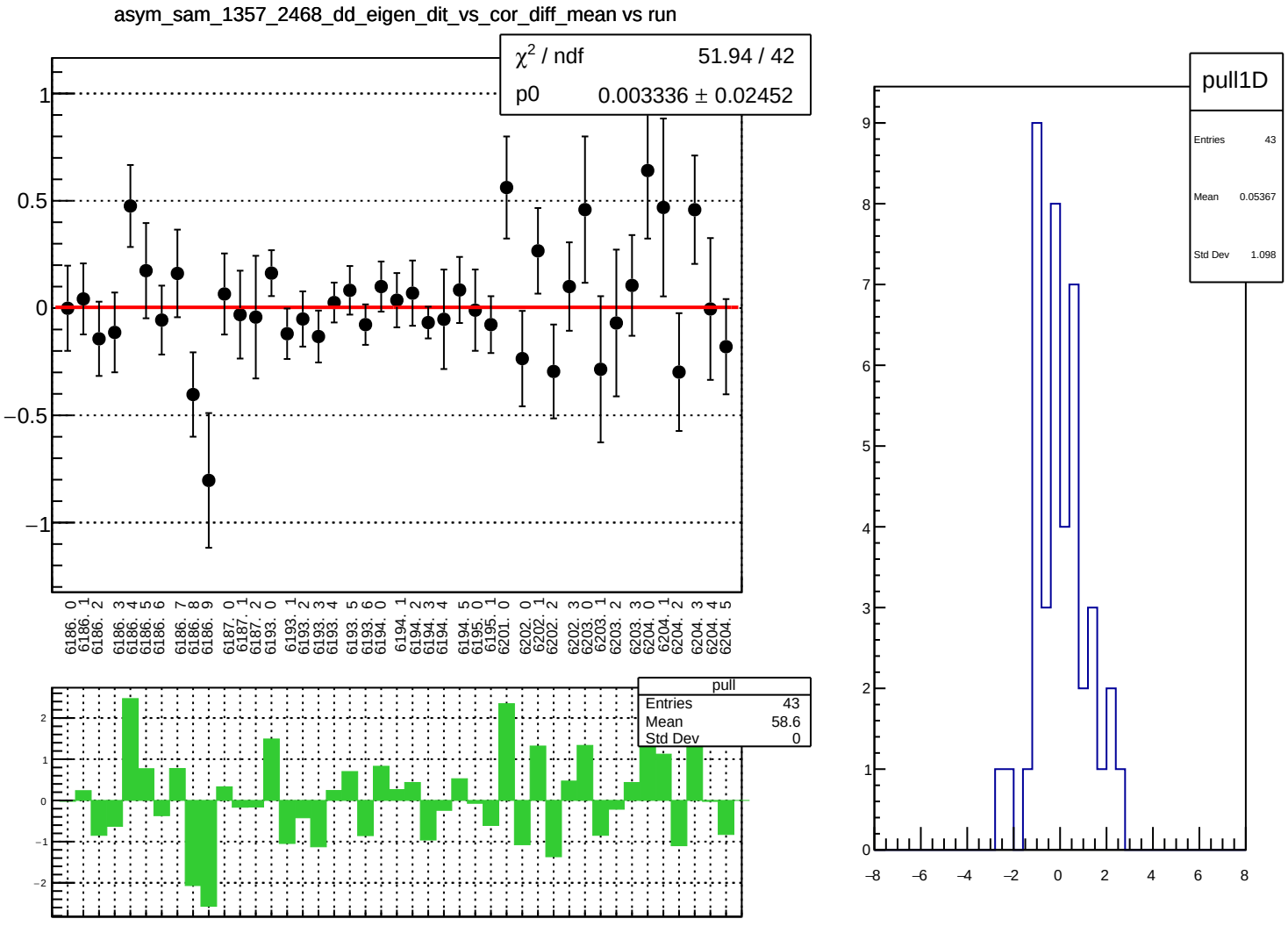

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.337e+05 / 42
p0 14.63 ± 0.01734
40
35
30
25
20
15
10
5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

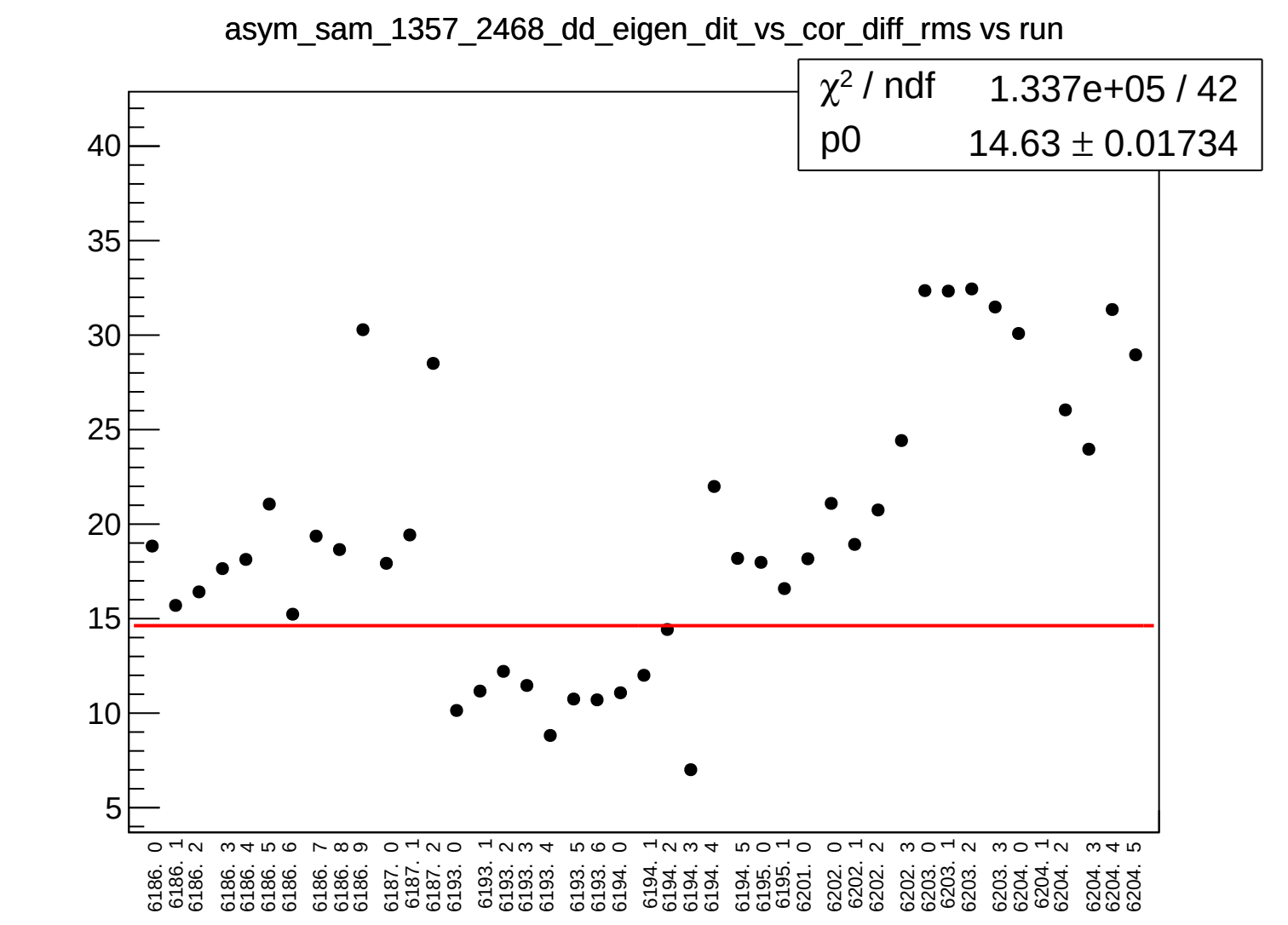

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.94 / 42
p0 0.003348 ± 0.02453
pull
Entries 43
Mean 58.61
Std Dev 0
pull1D
Entries 43
Mean 0.05365
Std Dev 1.098

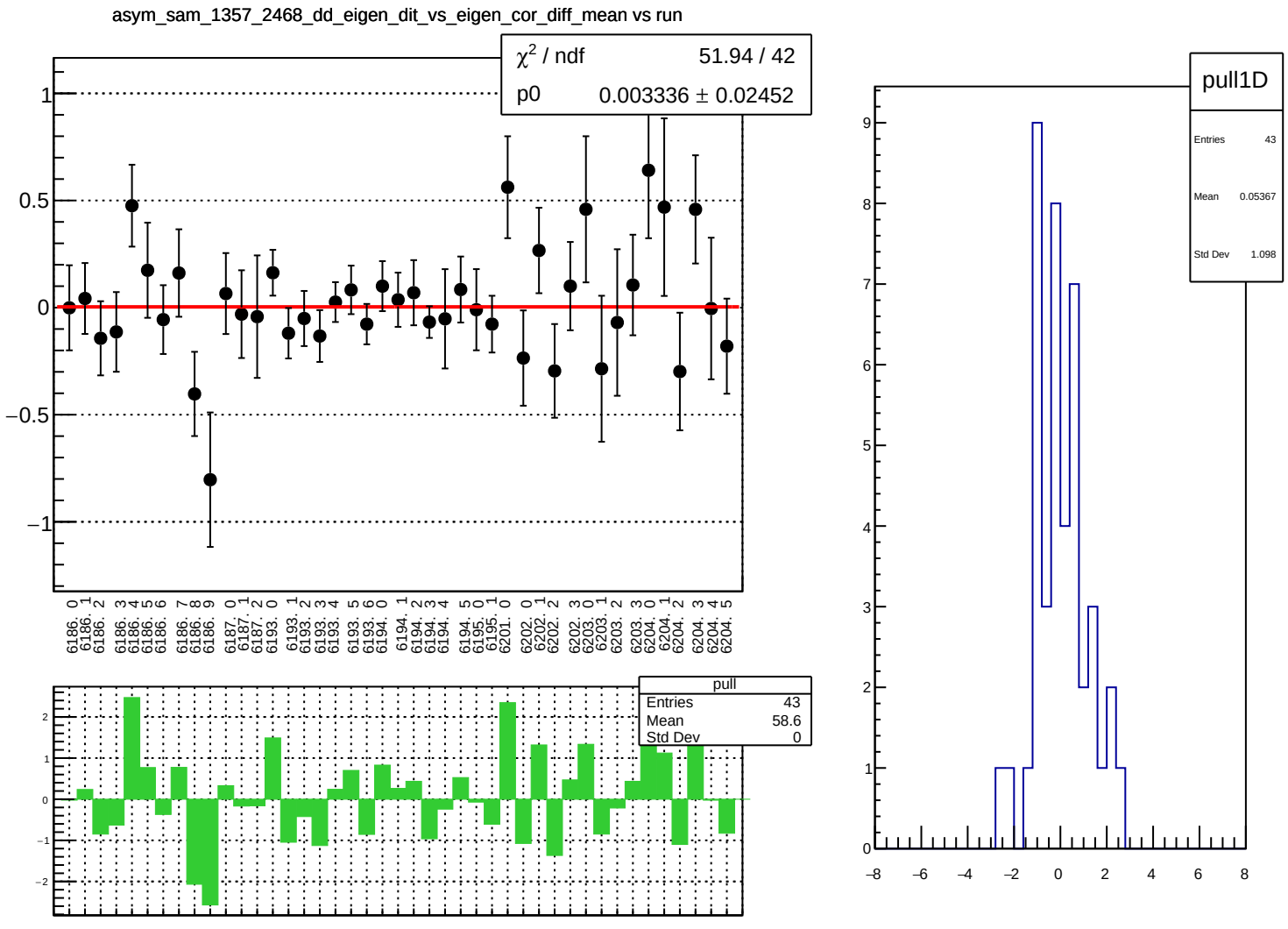

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.337e+05 / 42
p0 14.63 ± 0.01734
40
35
30
25
20
15
10
5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

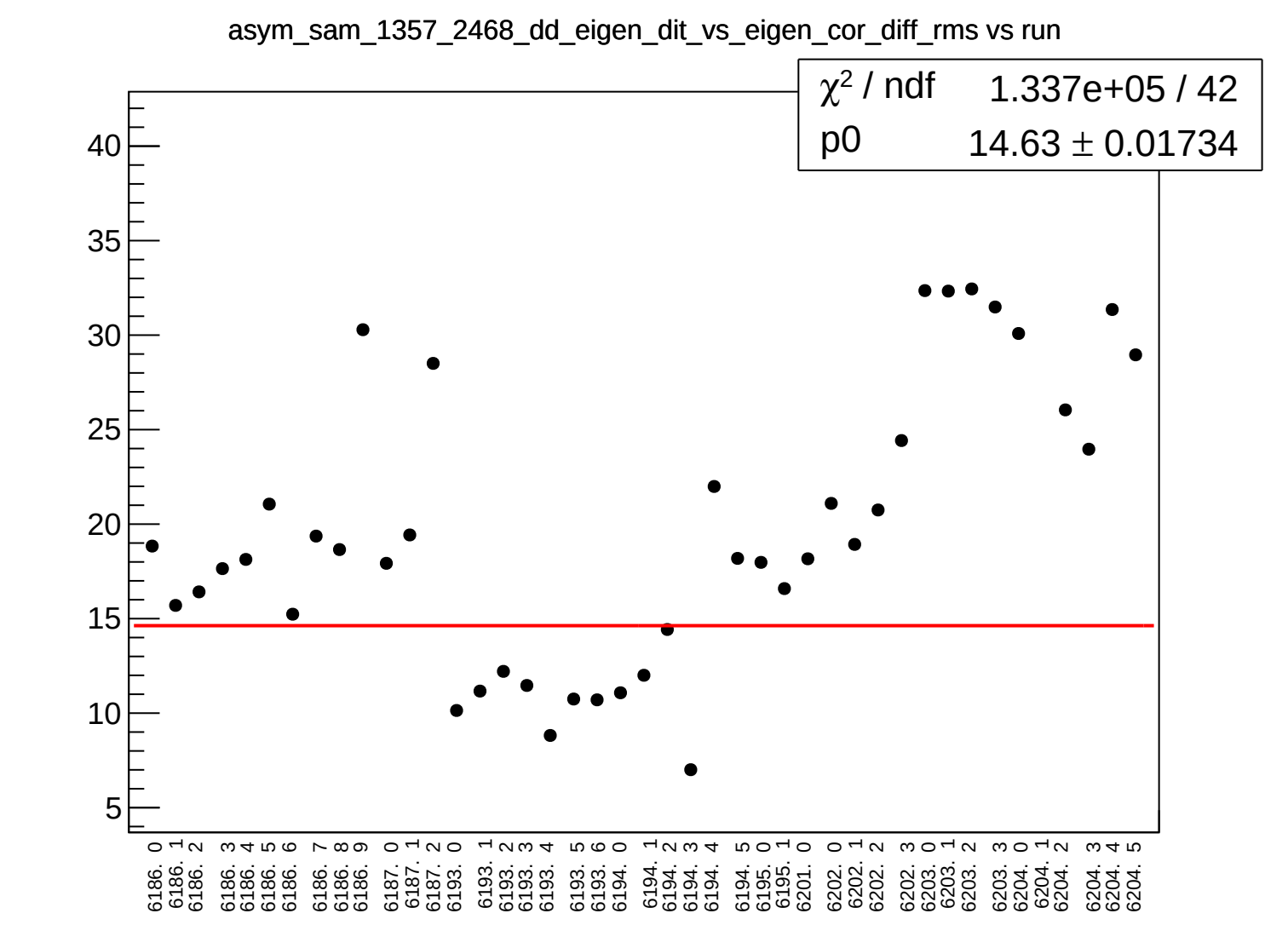

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 56.48 / 42
p0 −5.53e−06 ± 5.915e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 107.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.008669
Std Dev 1.146
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

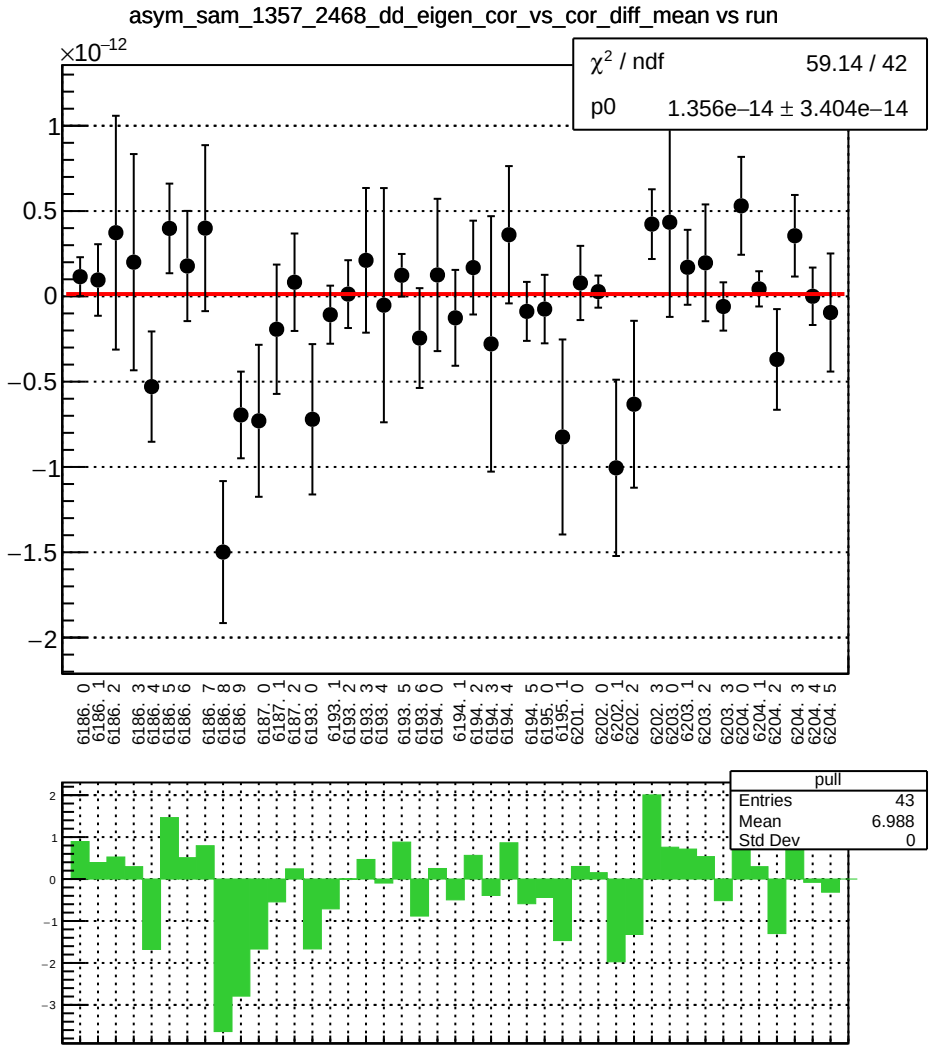

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3229 / 42
p0 0.003838 ± 4.183e−06
0.0042
0.004
0.0038
0.0036
0.0034
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

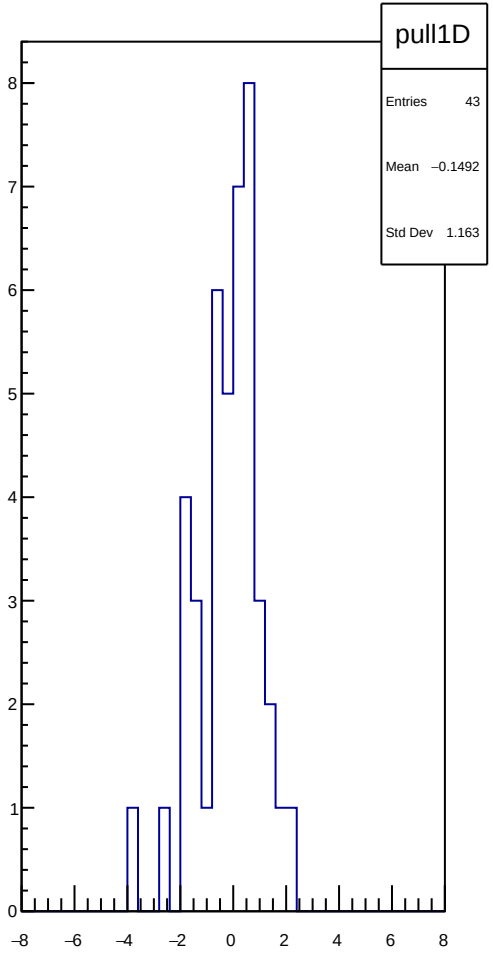

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 51.94 / 42
p0 0.003336 ± 0.02452
1
0.5
0
−0.5
−1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 58.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.05367
Std Dev 1.098
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

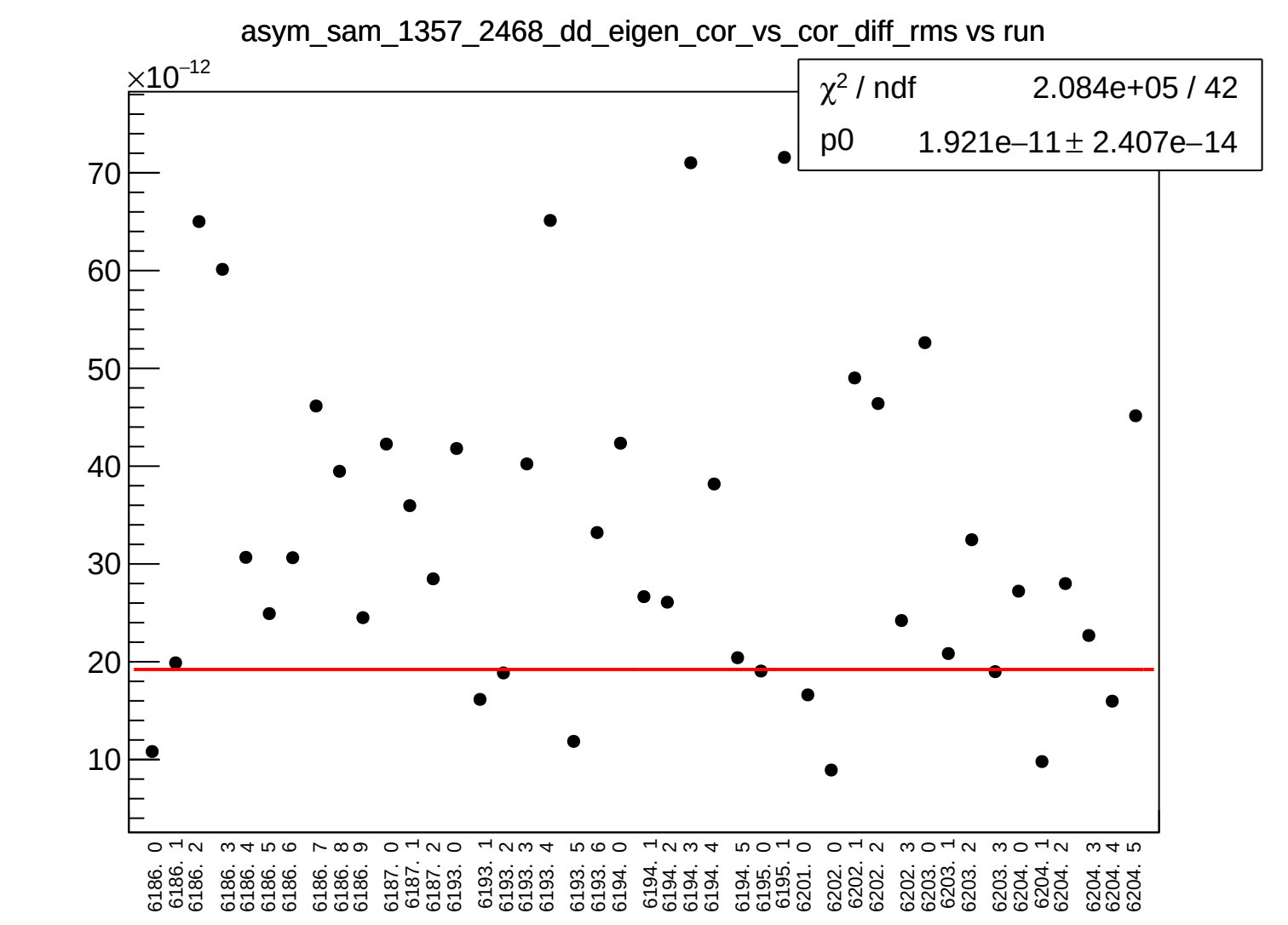

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.337e+05 / 42
p0 14.63 ± 0.01734
40
35
30
25
20
15
10
5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

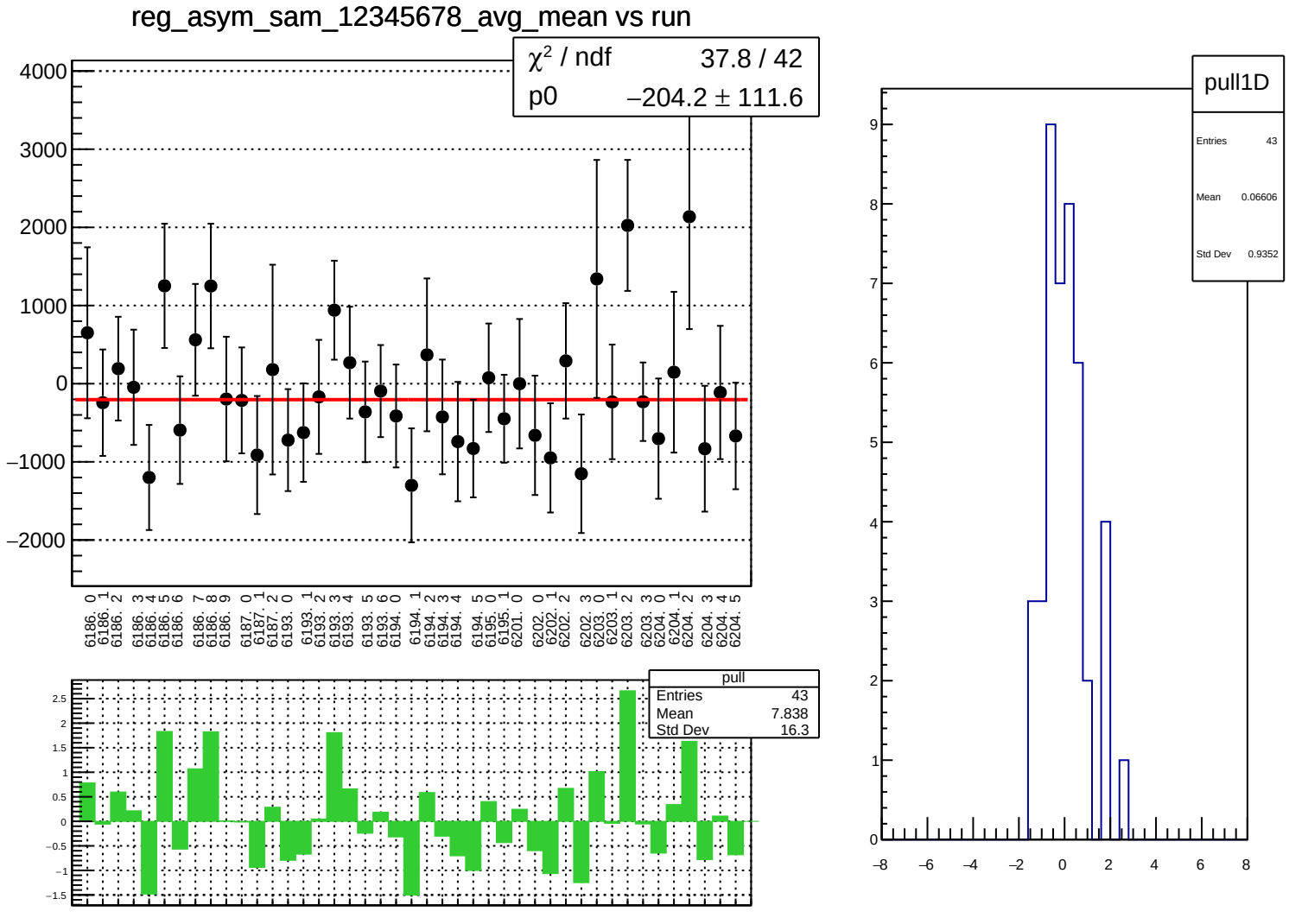

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 51.94 / 42
p0 0.003336 ± 0.02452
1
0.5
0
−0.5
−1
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 58.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.05367
Std Dev 1.098
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.337e+05 / 42
p0 14.63 ± 0.01734
40
35
30
25
20
15
10
5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 59.14 / 42
p0 1.356e−14 ± 3.404e−14
pull
Entries 43
Mean 6.988
Std Dev 0


pull1D
Entries 43
Mean −0.1492
Std Dev 1.163


asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.084e+05 / 42
p0 1.921e−11 ± 2.407e−14
70
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 37.8 / 42
p0 −204.2 ± 111.6
4000
3000
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 7.838
Std Dev 16.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.06606
Std Dev 0.9352
9
8
7
6
5
4
3
2
1
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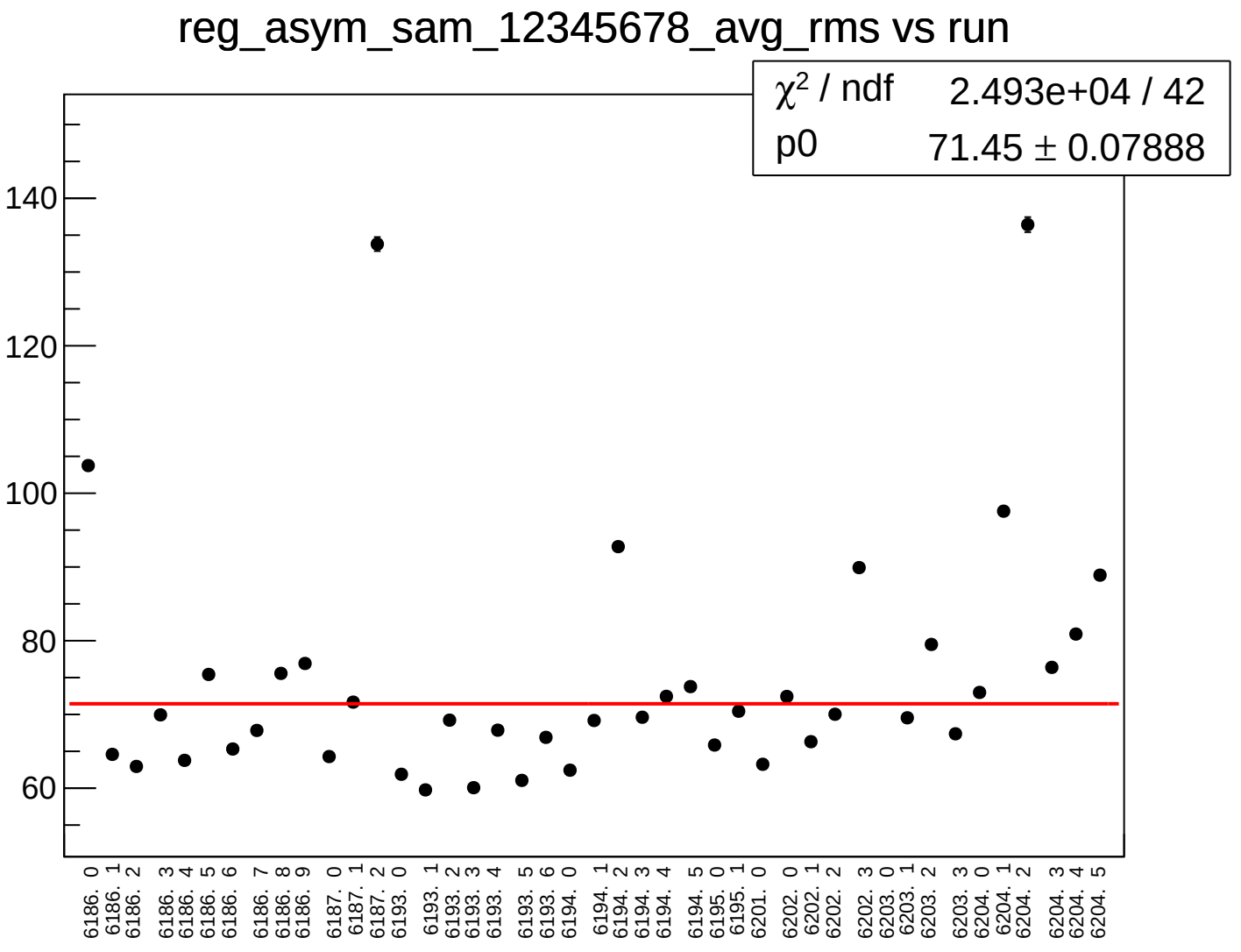
reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.493e+04 / 42
p0 71.45 ± 0.07888
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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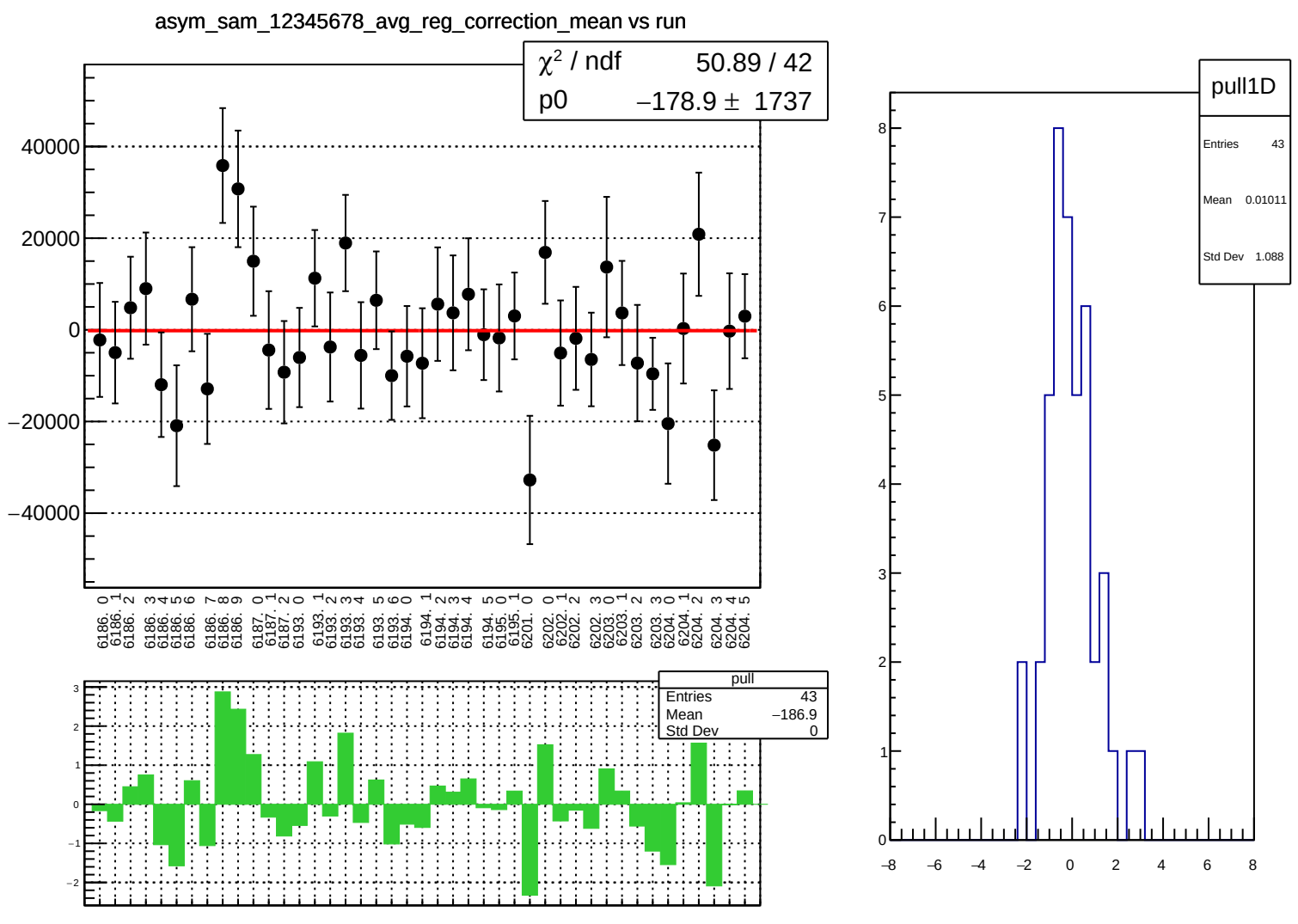
6204. 4
6204. 5


asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 50.89 / 42
p0 −178.9 ± 1737
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
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6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −186.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01011
Std Dev 1.088
8
7
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5
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−4
−2
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6
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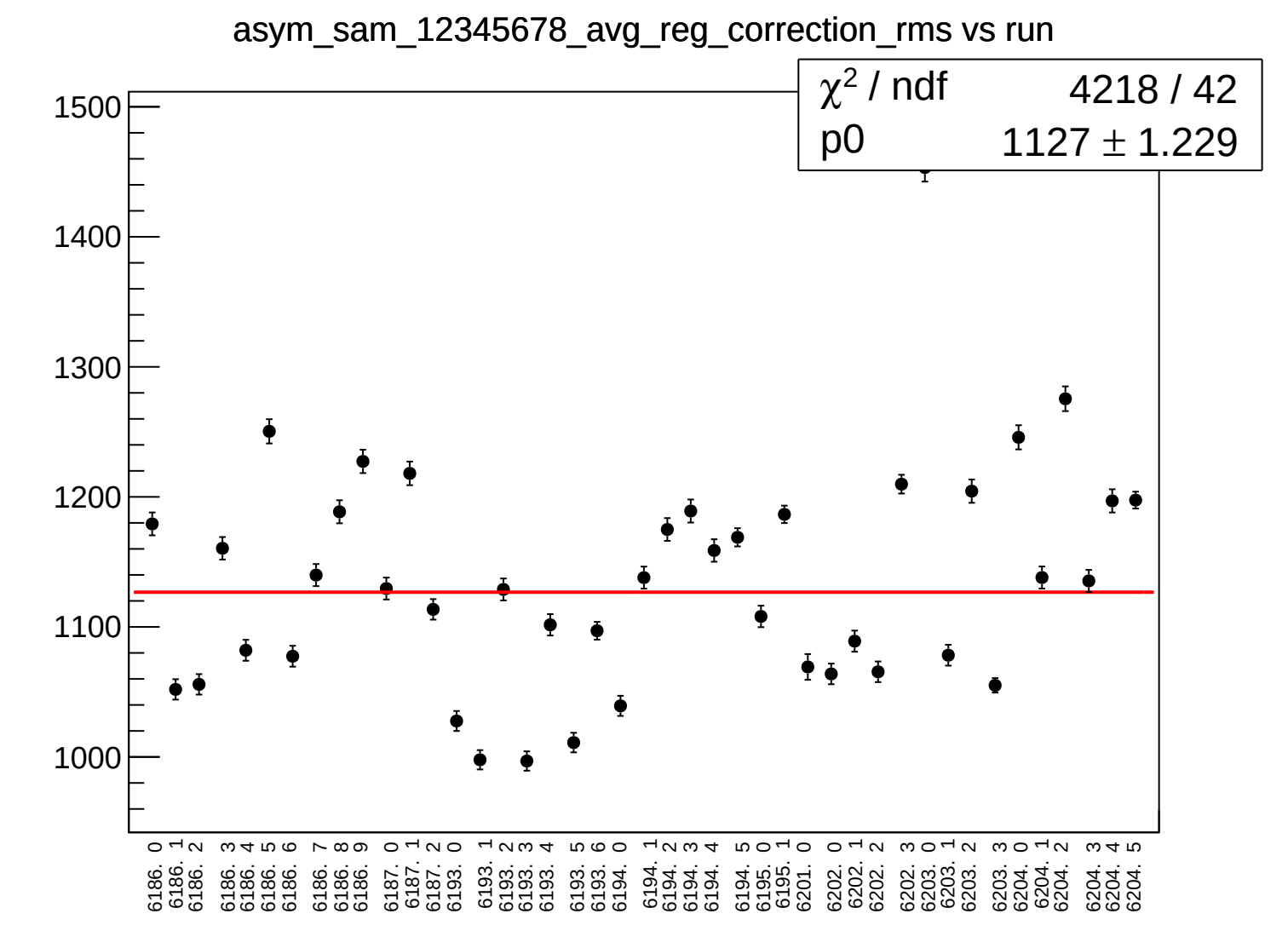
asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 4218 / 42
p0 1127 ± 1.229
1500
1400
1300
1200
1100
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
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6202. 2
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6204. 0
6204. 1
6204. 2
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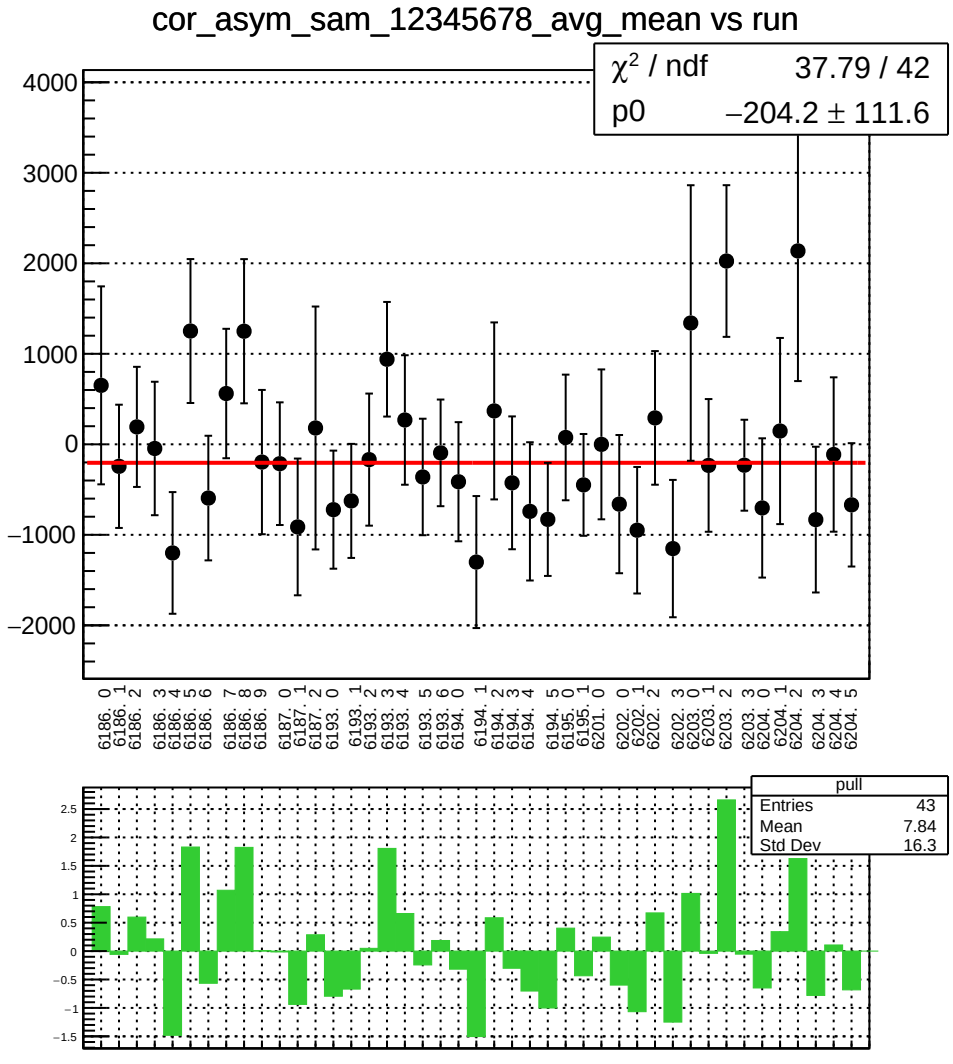
6204. 4
6204. 5


cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 37.79 / 42
p0 −204.2 ± 111.6
4000
3000
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 7.84
Std Dev 16.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.06606
Std Dev 0.9352
9
8
7
6
5
4
3
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1
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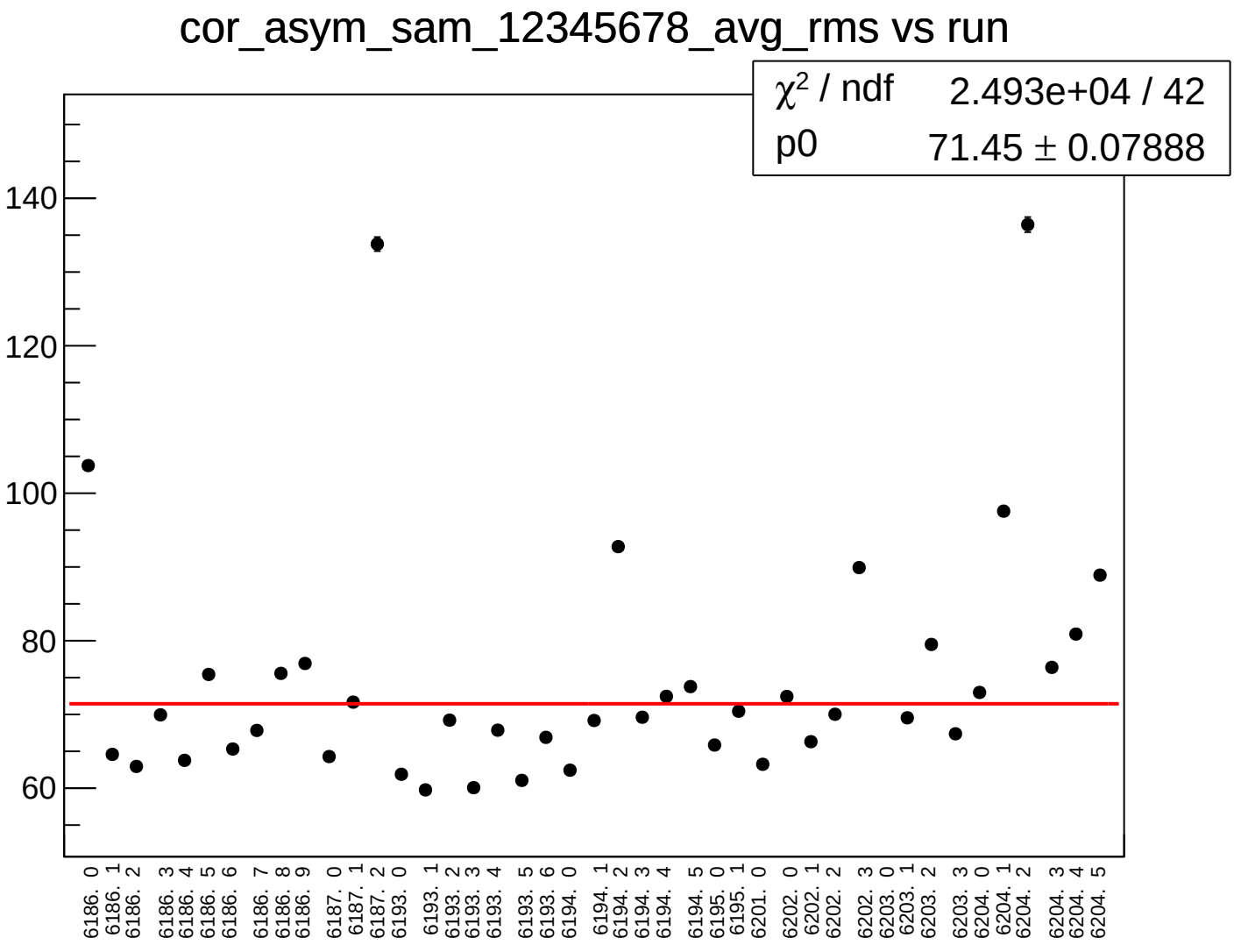
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.493e+04 / 42
p0 71.45 ± 0.07888
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 9
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6187. 2
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6193. 2
6193. 3
6193. 4
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6193. 6
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6194. 2
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6202. 3
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6204. 2
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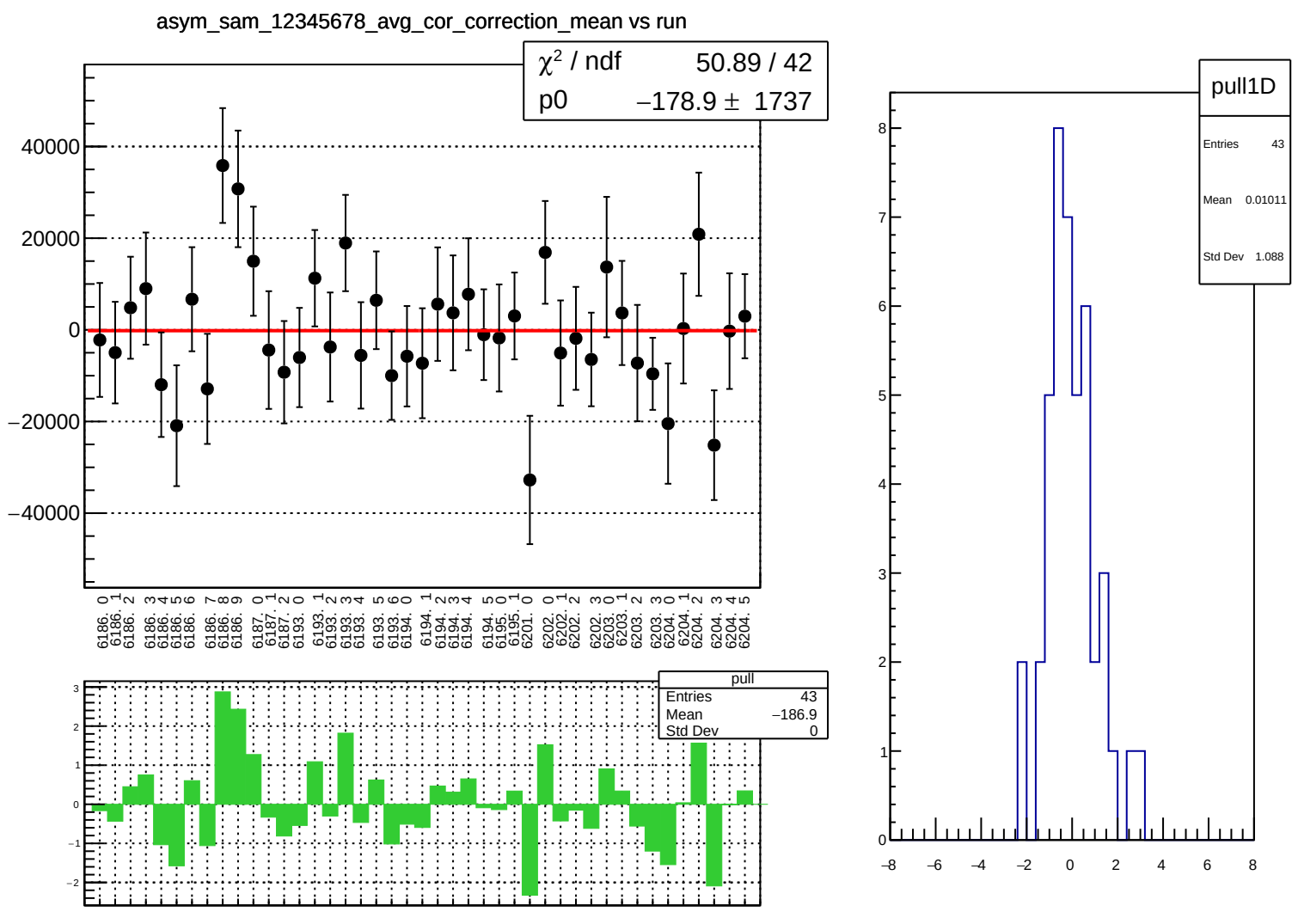
6204. 4
6204. 5


asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 50.89 / 42
p0 −178.9 ± 1737
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 6
6186. 7
6186. 8
6186. 9
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6187. 2
6193. 0
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6193. 2
6193. 3
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6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
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6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −186.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01011
Std Dev 1.088
8
7
6
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−8
−6
−4
−2
0
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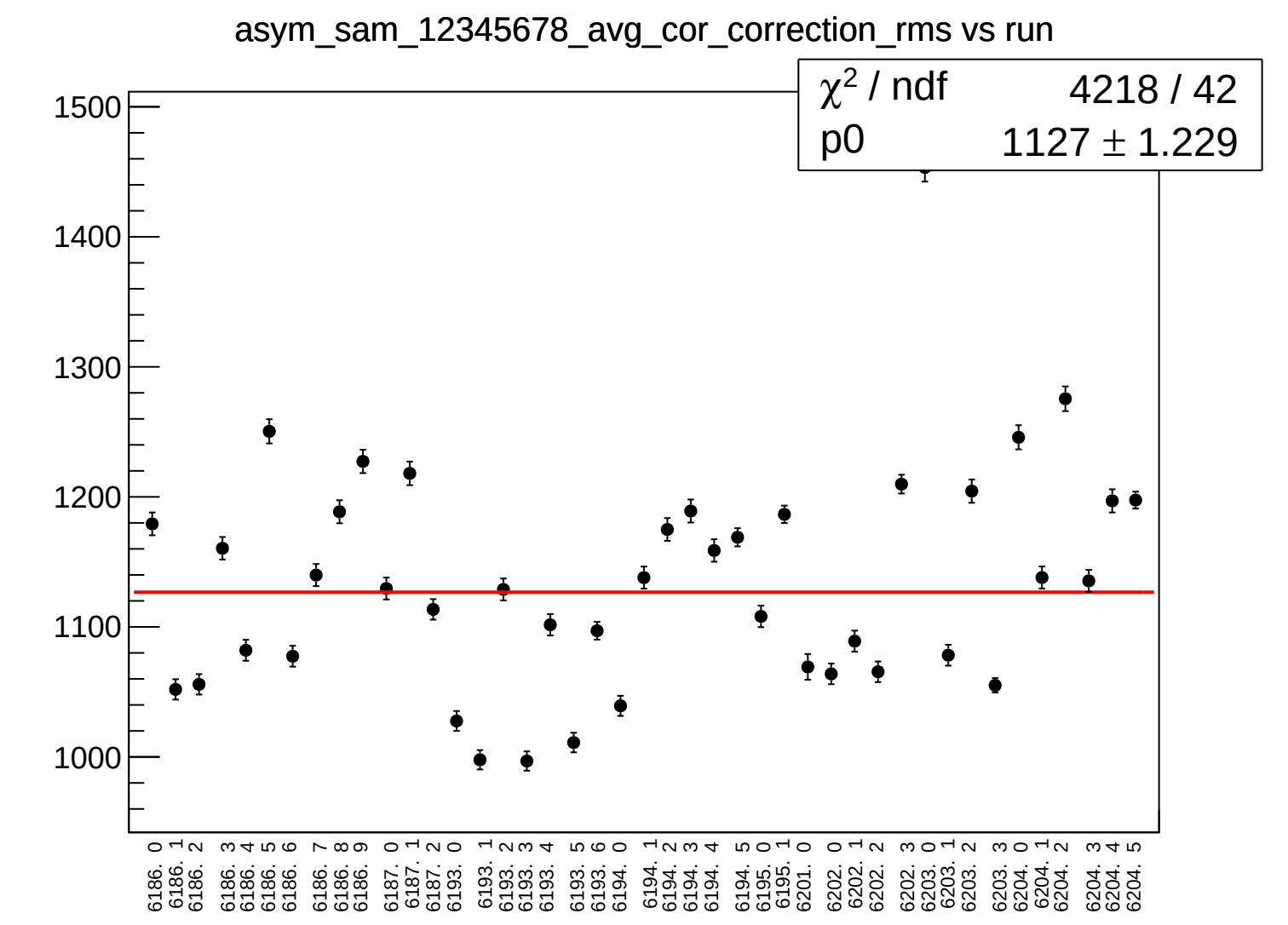
8


asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 4218 / 42
p0 1127 ± 1.229
1500
1400
1300
1200
1100
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
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6186. 8
6186. 9
6187. 0
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6187. 2
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6193. 5
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6194. 0
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6195. 1
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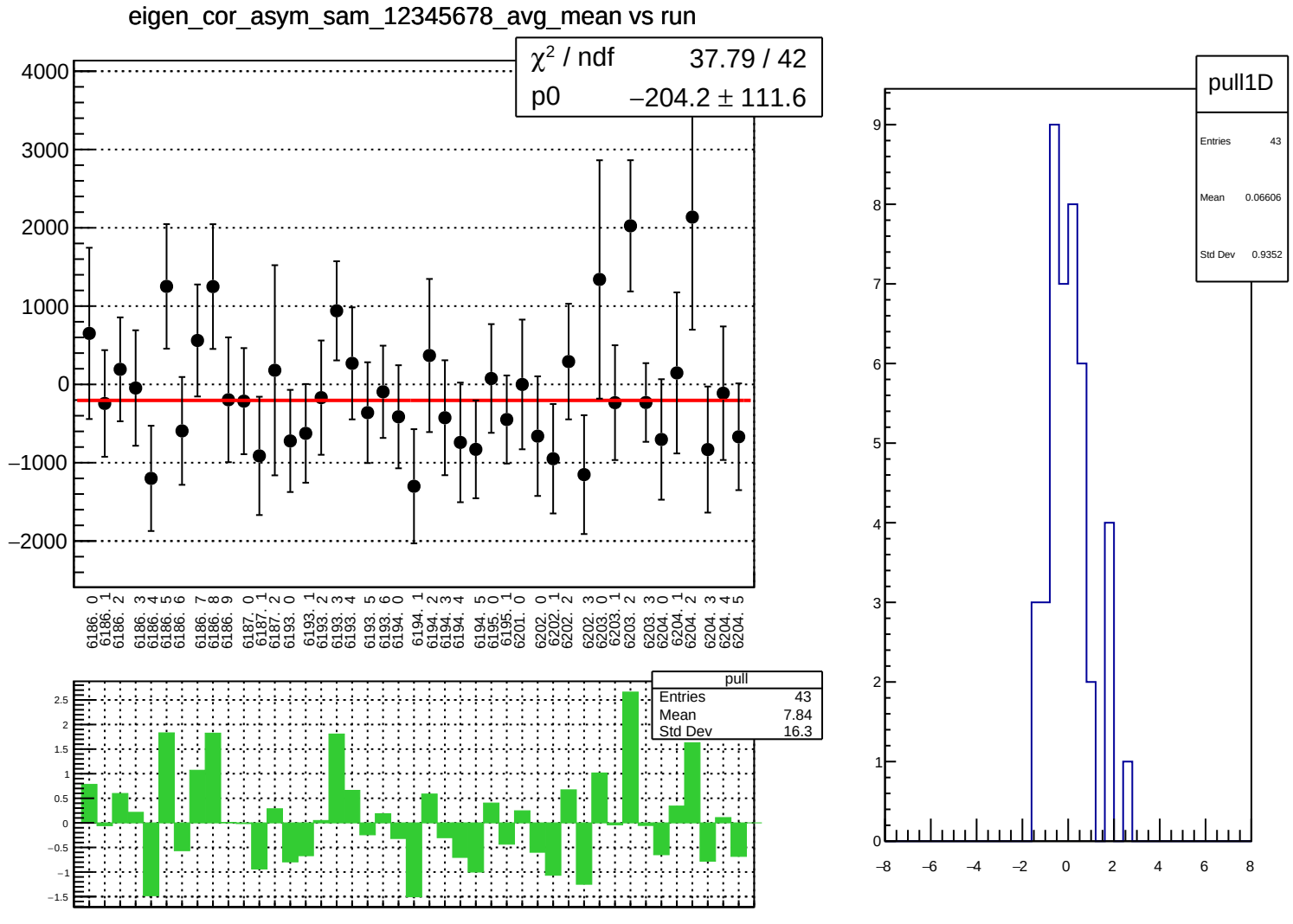
6204. 2
6204. 3
6204. 4
6204. 5


eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 37.79 / 42
p0 −204.2 ± 111.6
4000
3000
2000
1000
0
−1000
−2000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
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6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
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6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
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6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 7.84
Std Dev 16.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.06606
Std Dev 0.9352
9
8
7
6
5
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−8
−6
−4
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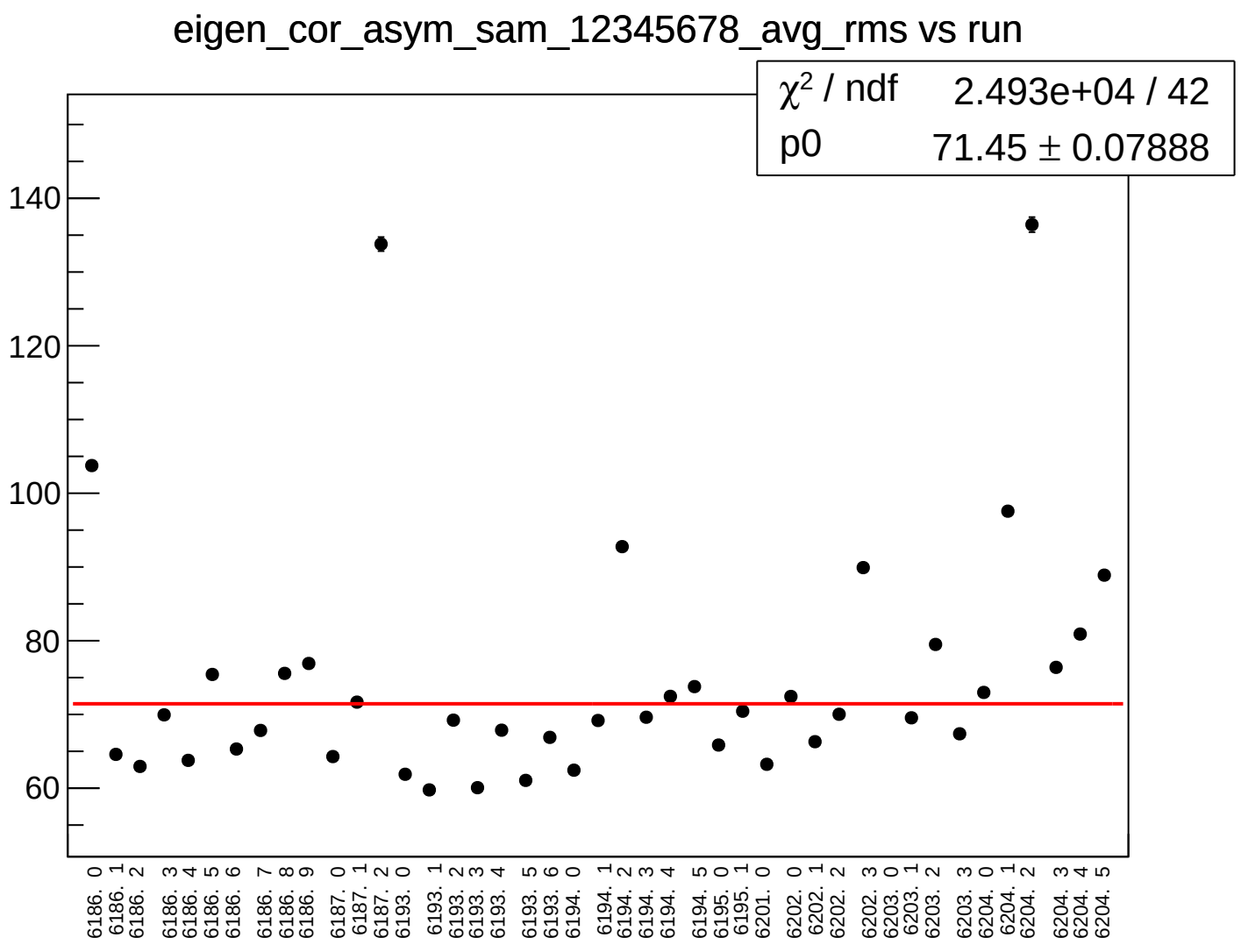
eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.493e+04 / 42
p0 71.45 ± 0.07888
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
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6186. 6
6186. 7
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6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
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6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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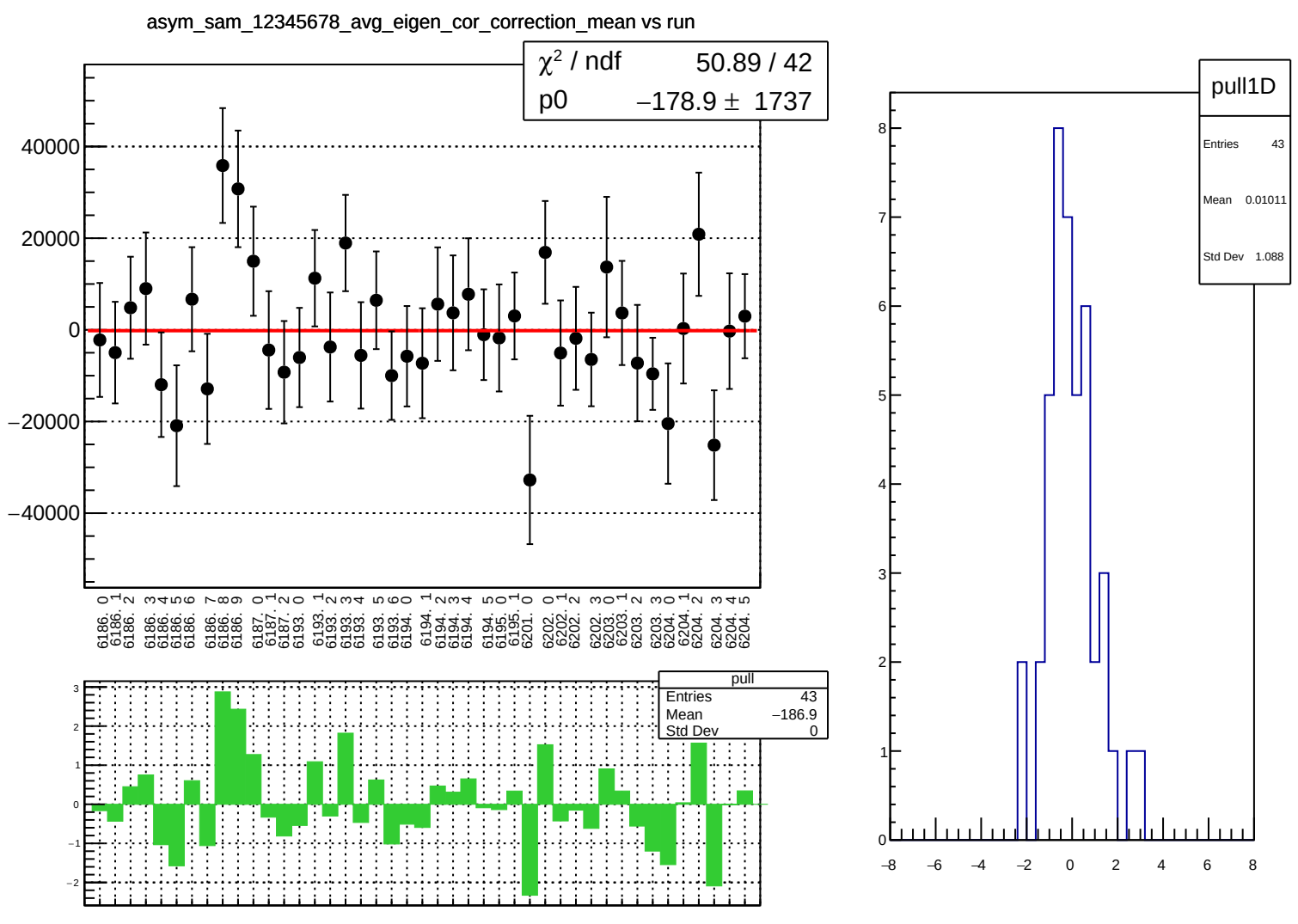
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 50.89 / 42
p0 −178.9 ± 1737
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
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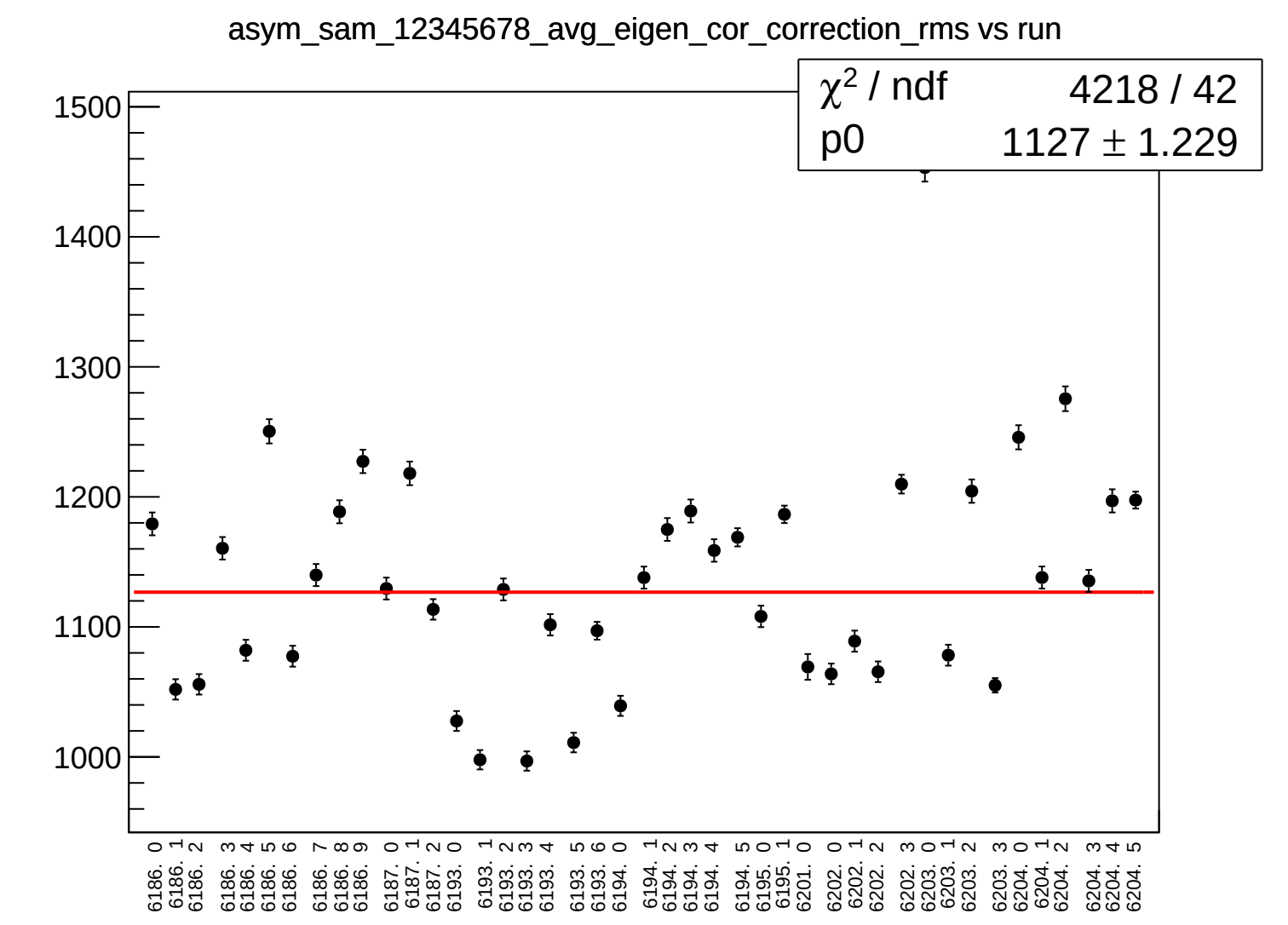
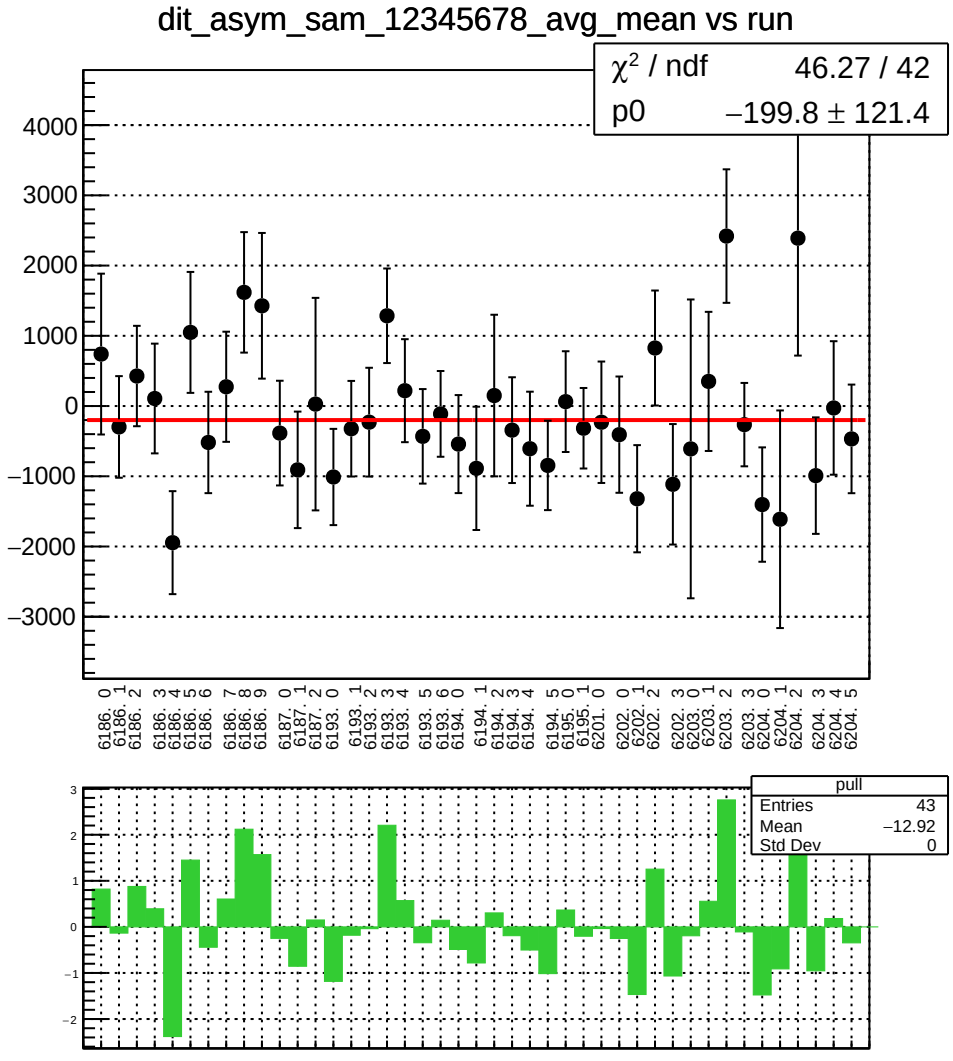
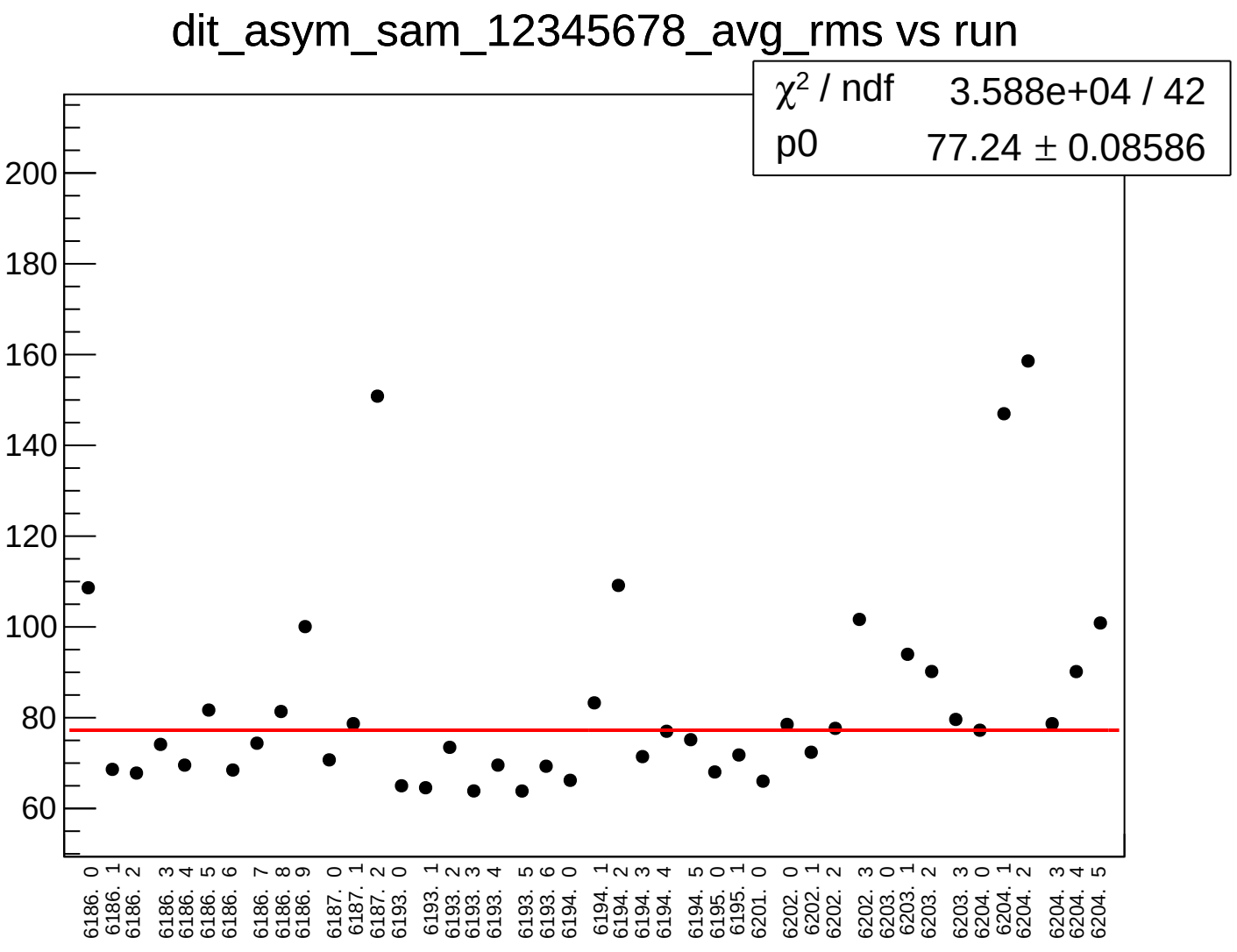
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −186.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01011
Std Dev 1.088
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 4218 / 42
p0 1127 ± 1.229
1500
1400
1300
1200
1100
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 46.27 / 42
p0 −199.8 ± 121.4
4000
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −12.92
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.04814
Std Dev 1.036
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.588e+04 / 42
p0 77.24 ± 0.08586
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
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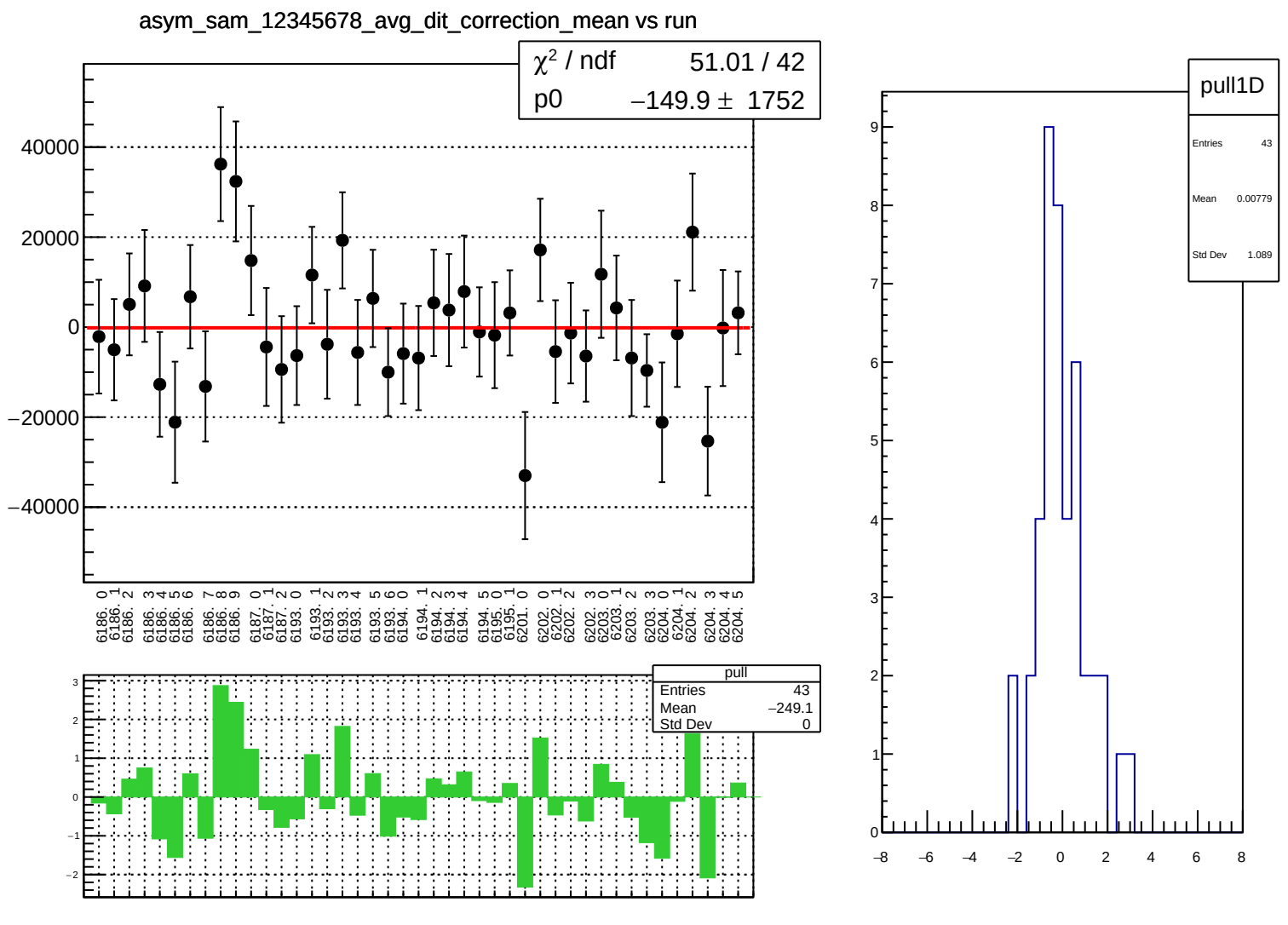
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5


asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 51.01 / 42
p0 −149.9 ± 1752
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −249.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.00779
Std Dev 1.089
9
8
7
6
5
4
3
2
1
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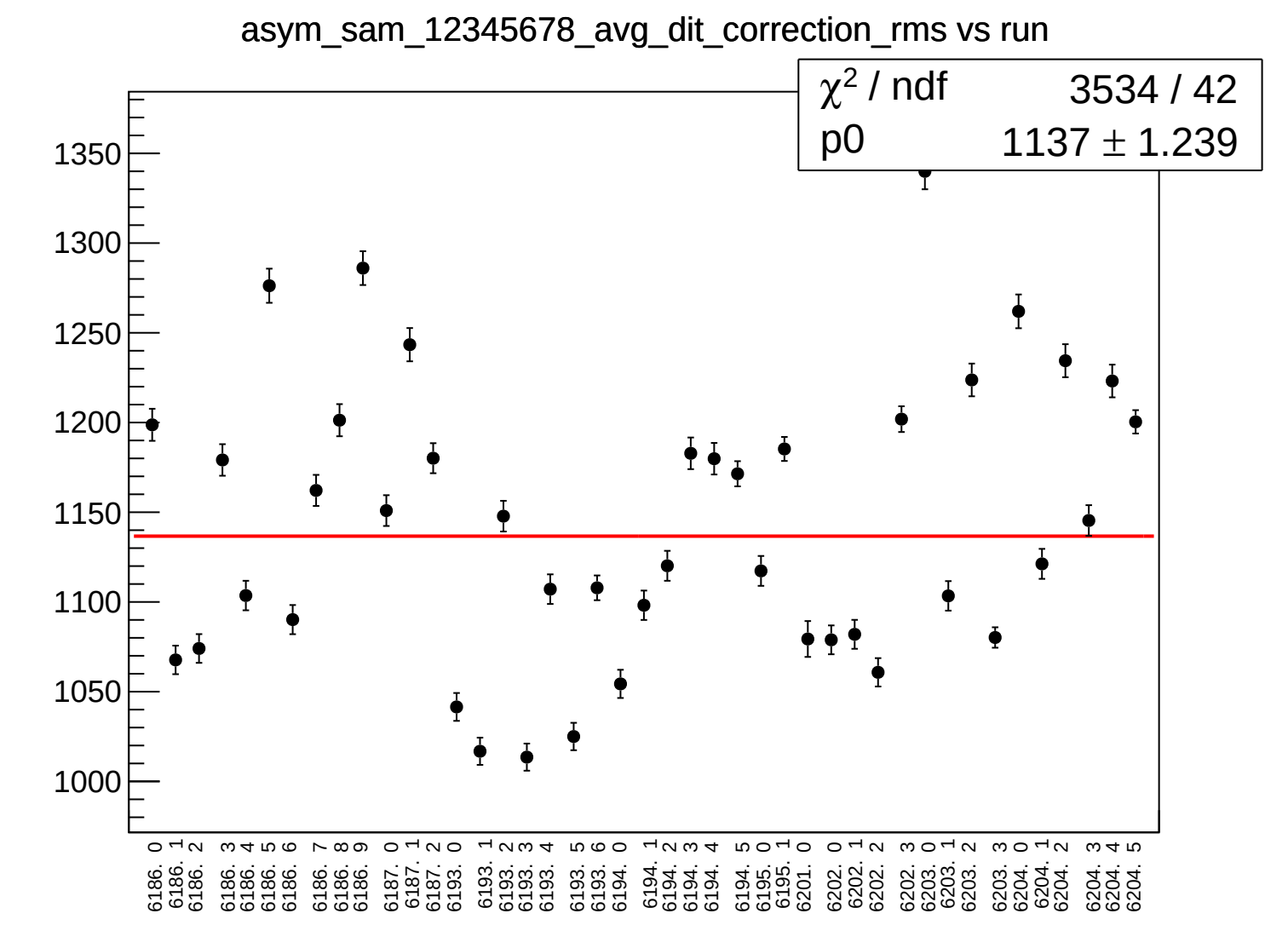
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 3534 / 42
p0 1137 ± 1.239
1350
1300
1250
1200
1150
1100
1050
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
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6204. 2
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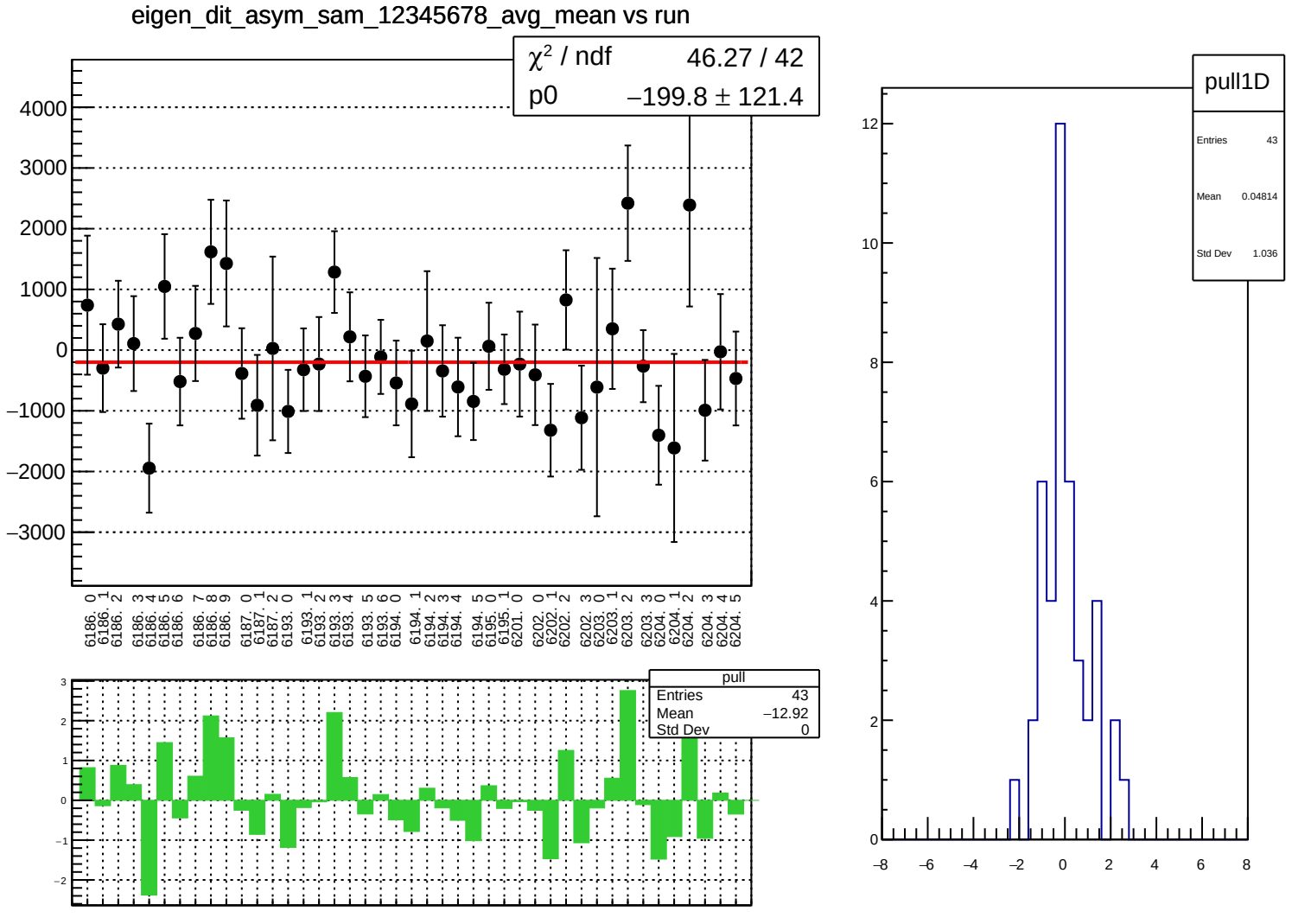
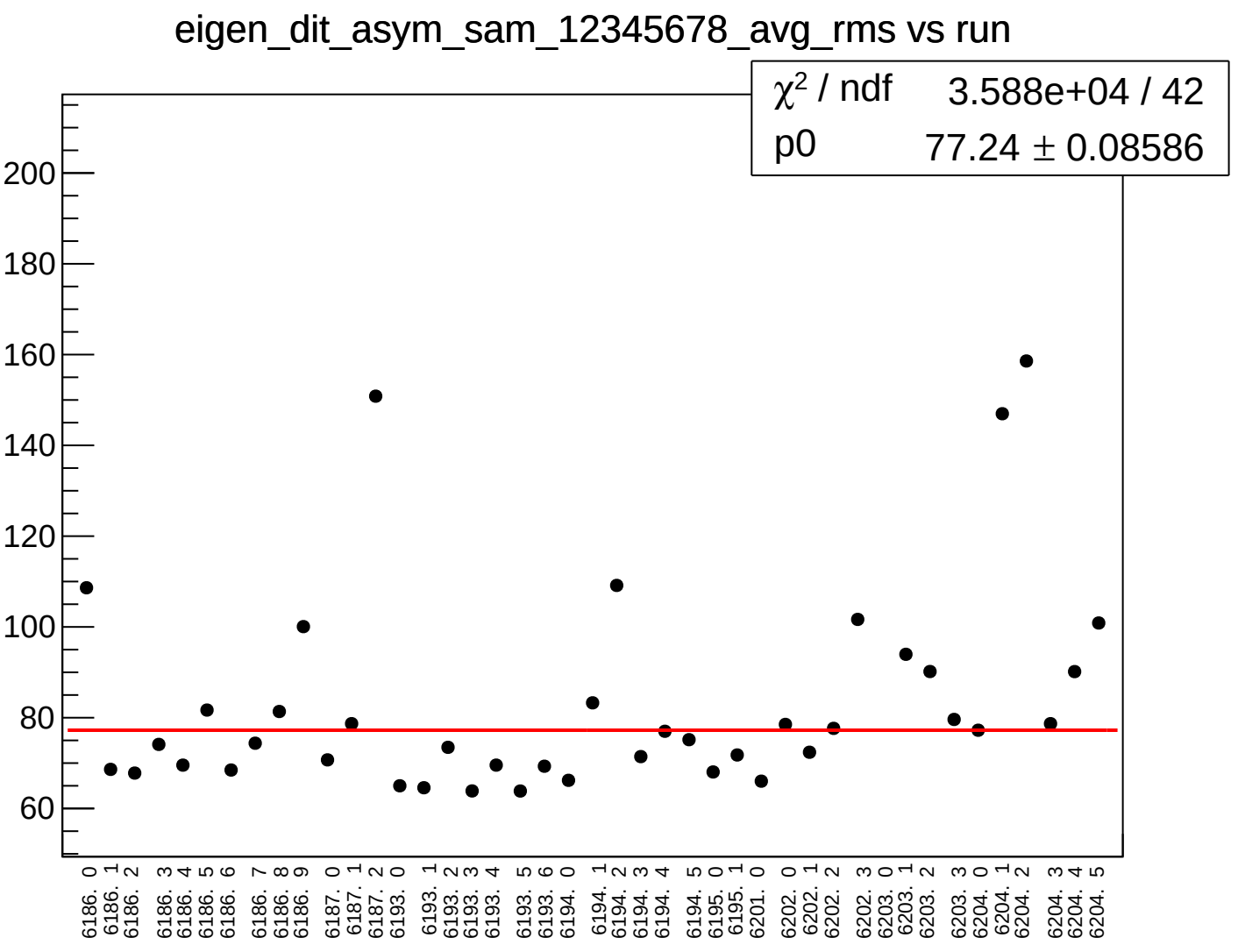
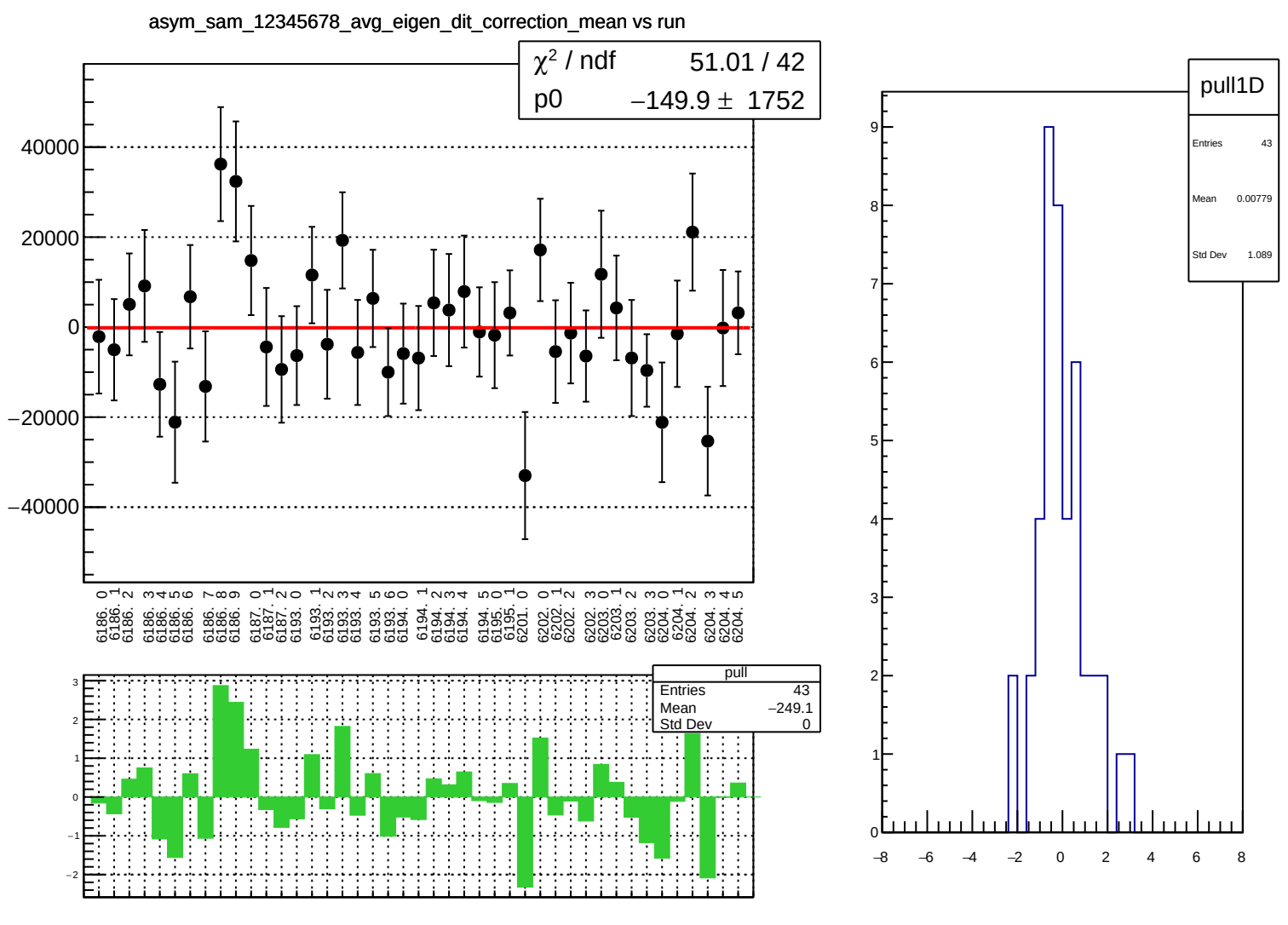
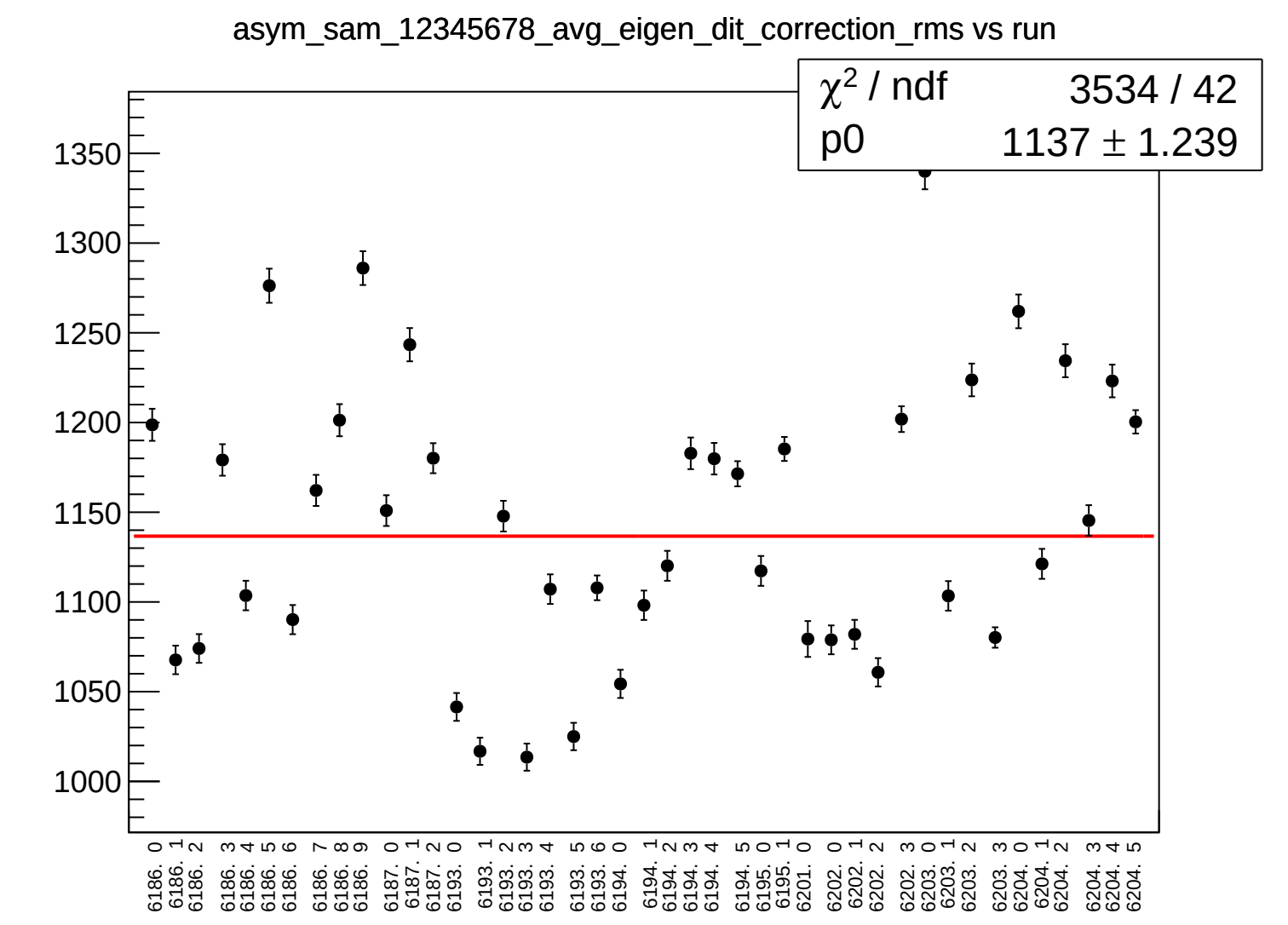
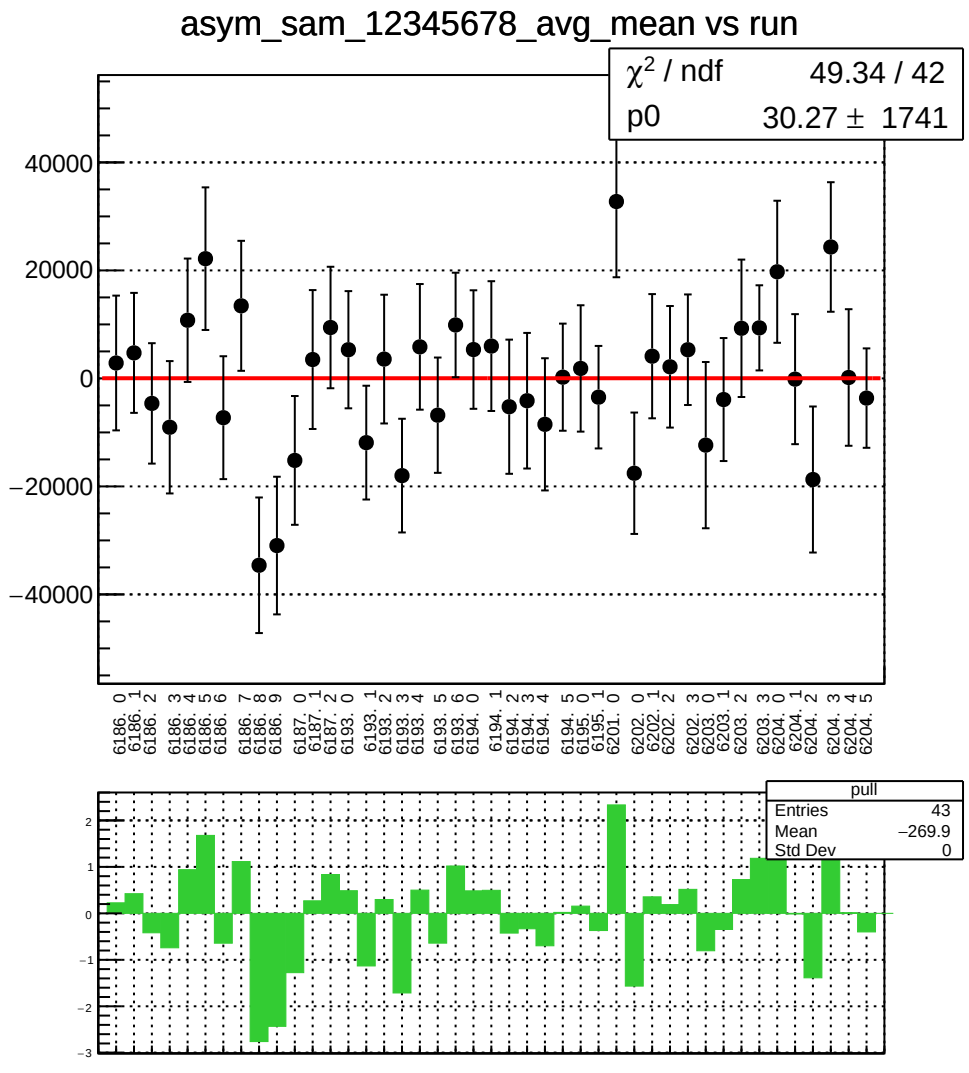
6204. 5

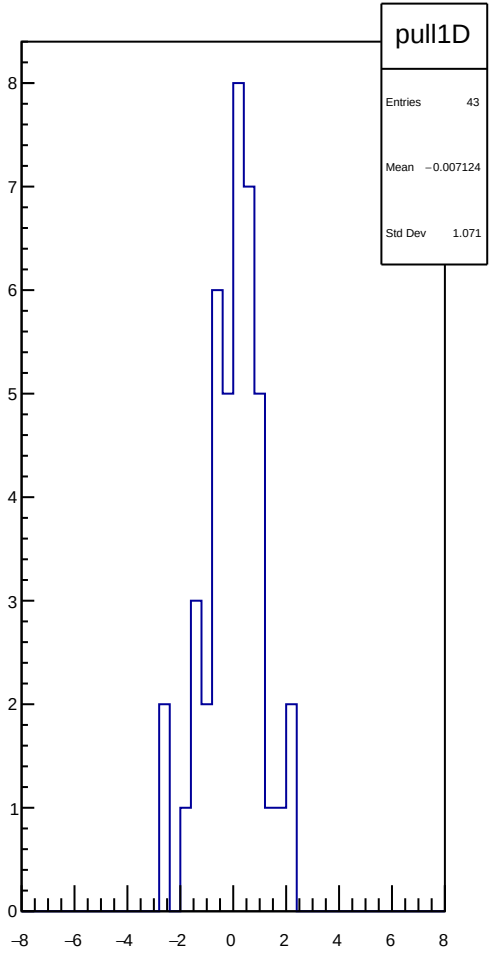

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 46.27 / 42
p0 −199.8 ± 121.4
4000
3000
2000
1000
0
−1000
−2000
−3000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −12.92
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.04814
Std Dev 1.036
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

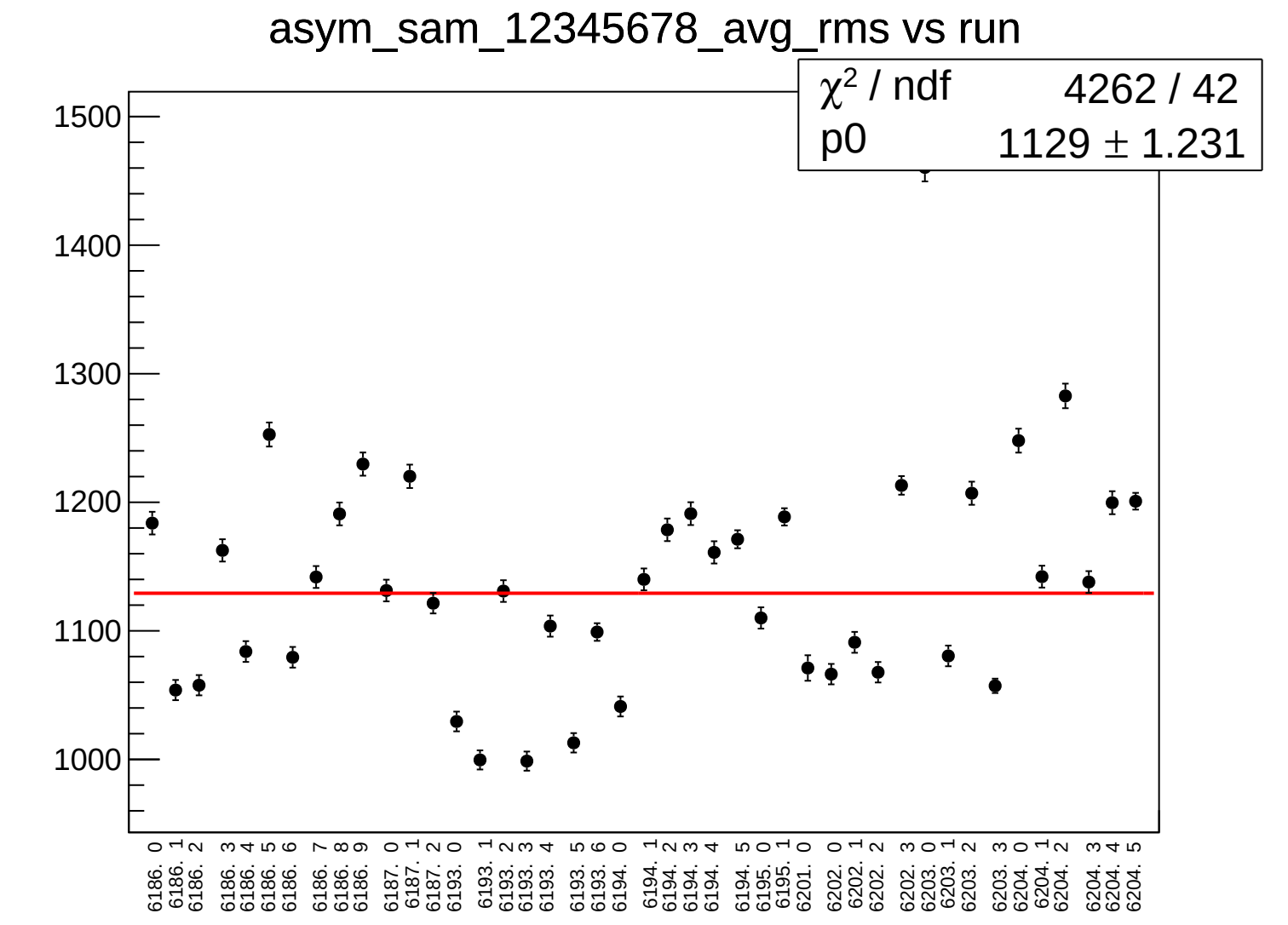

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.588e+04 / 42
p0 77.24 ± 0.08586
200
180
160
140
120
100
80
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

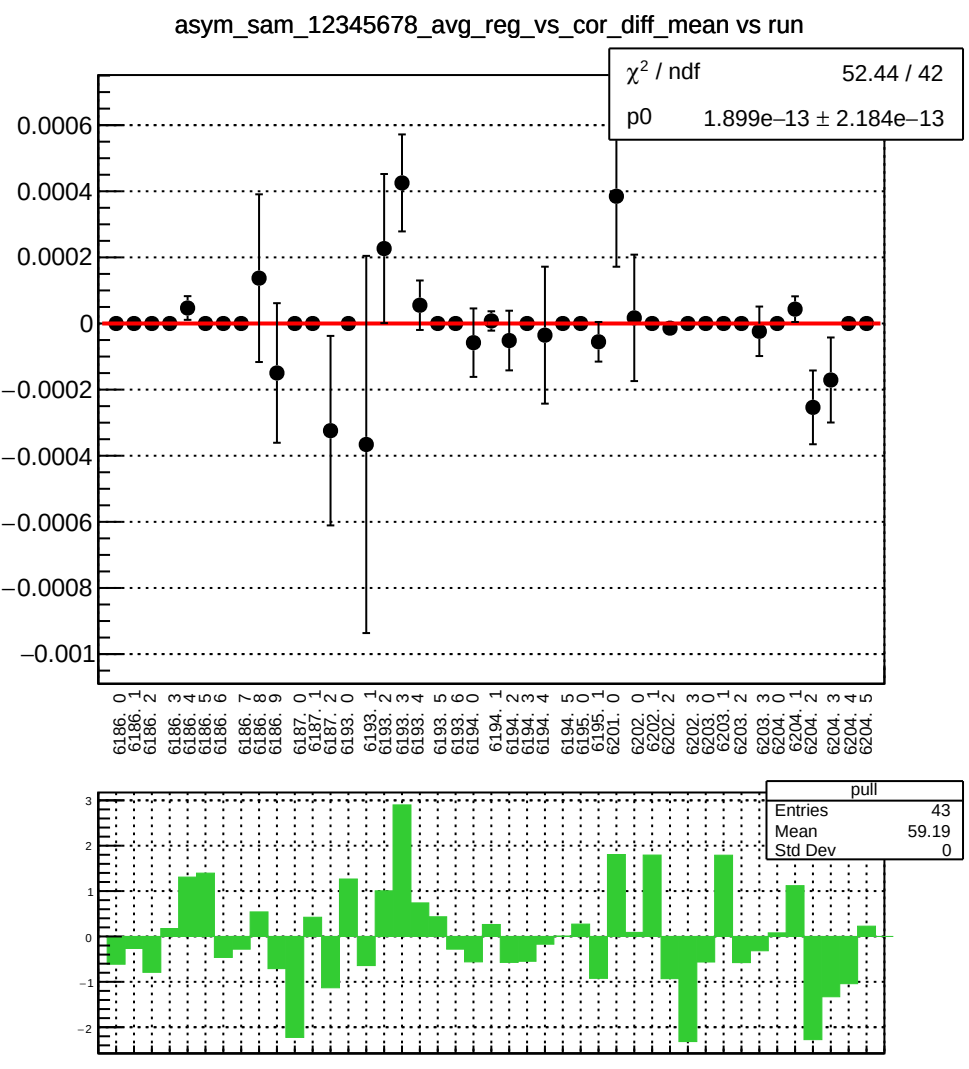

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 51.01 / 42
p0 −149.9 ± 1752
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −249.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.00779
Std Dev 1.089
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

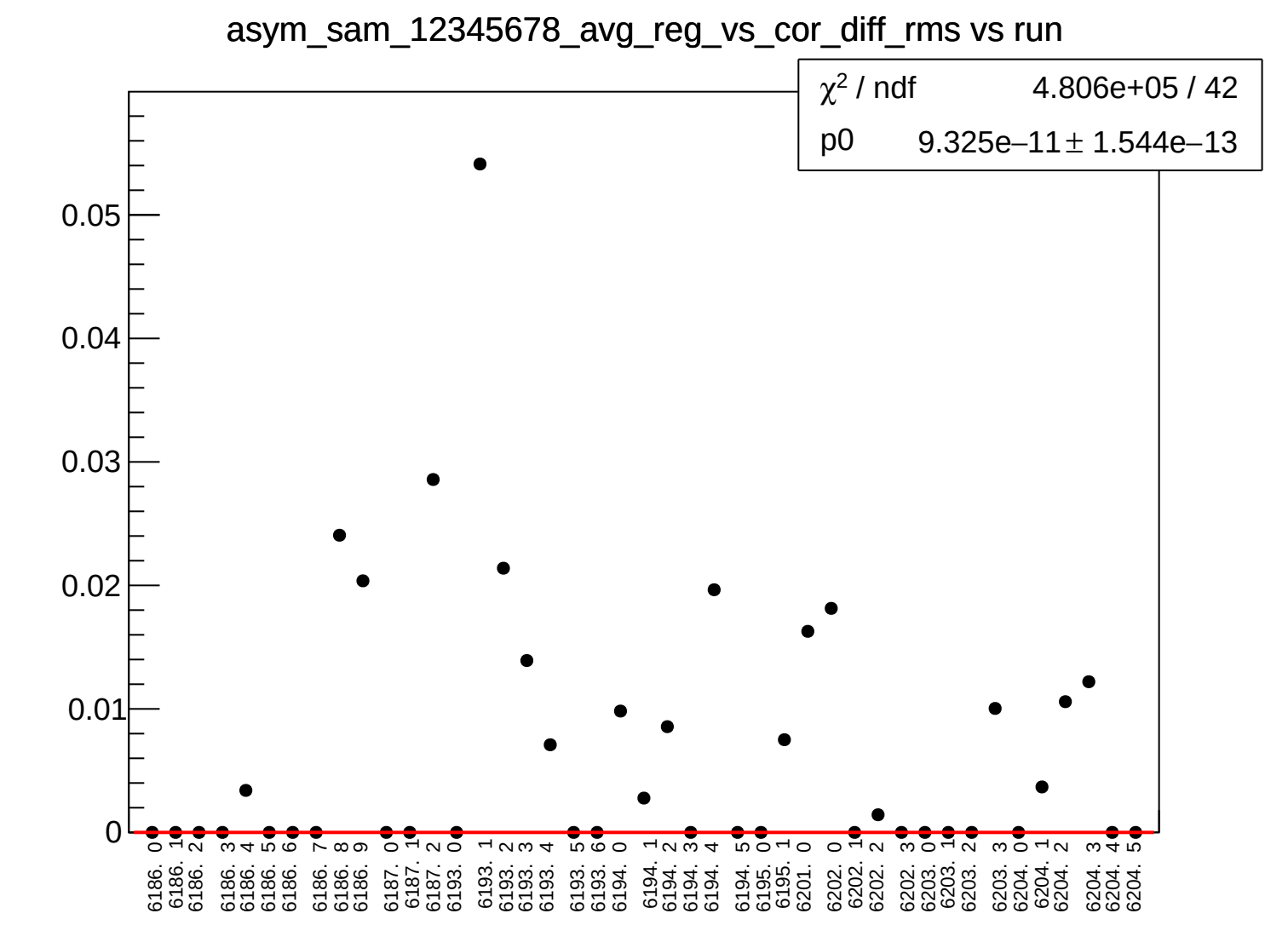

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 3534 / 42
p0 1137 ± 1.239
1350
1300
1250
1200
1150
1100
1050
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

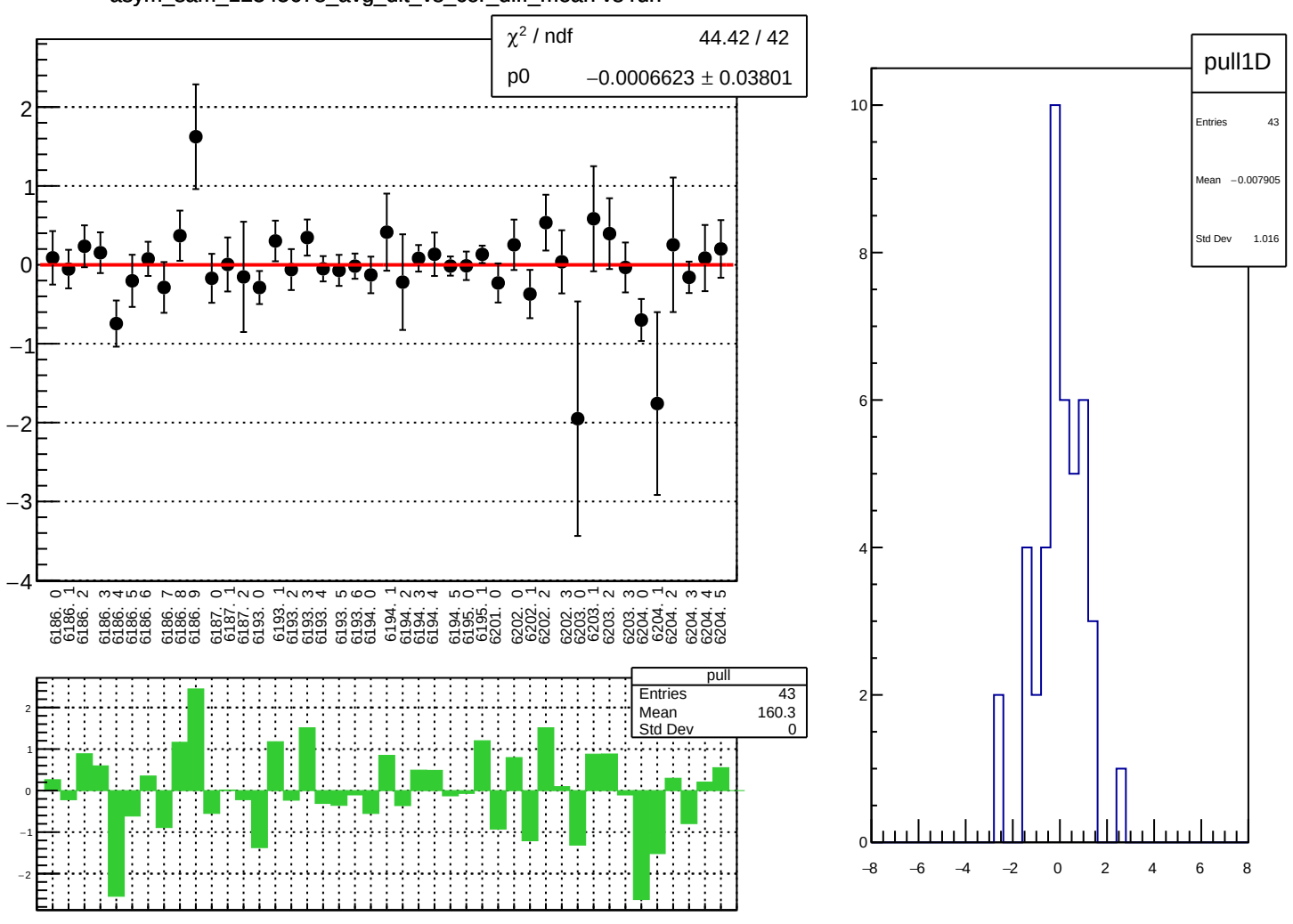

asym_sam_12345678_avg_mean vs run
χ² / ndf 49.34 / 42
p0 30.27 ± 1741
40000
20000
0
−20000
−40000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −269.9
Std Dev 0
2
1
0
−1
−2
−3

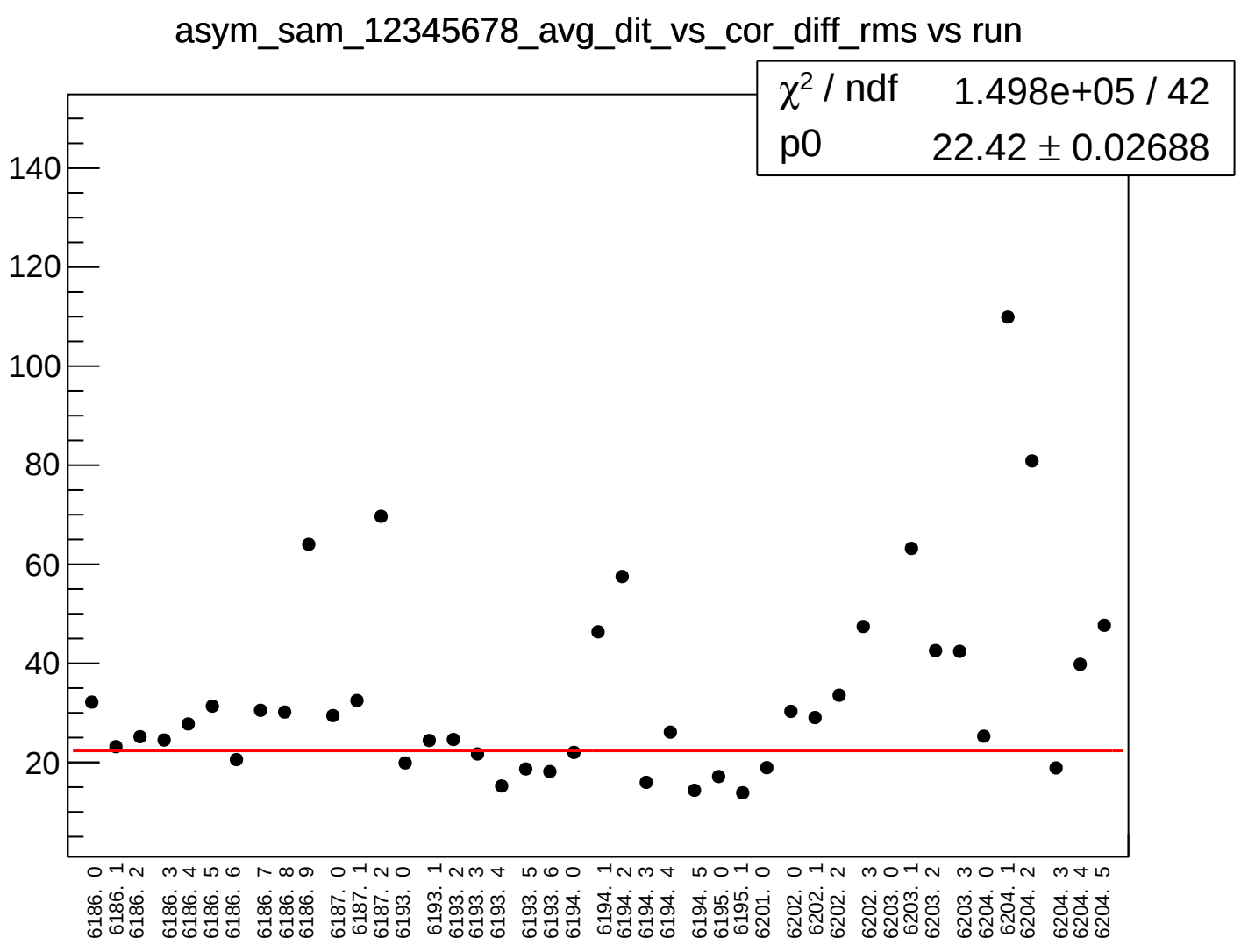

pull1D
Entries 43
Mean −0.007124
Std Dev 1.071
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

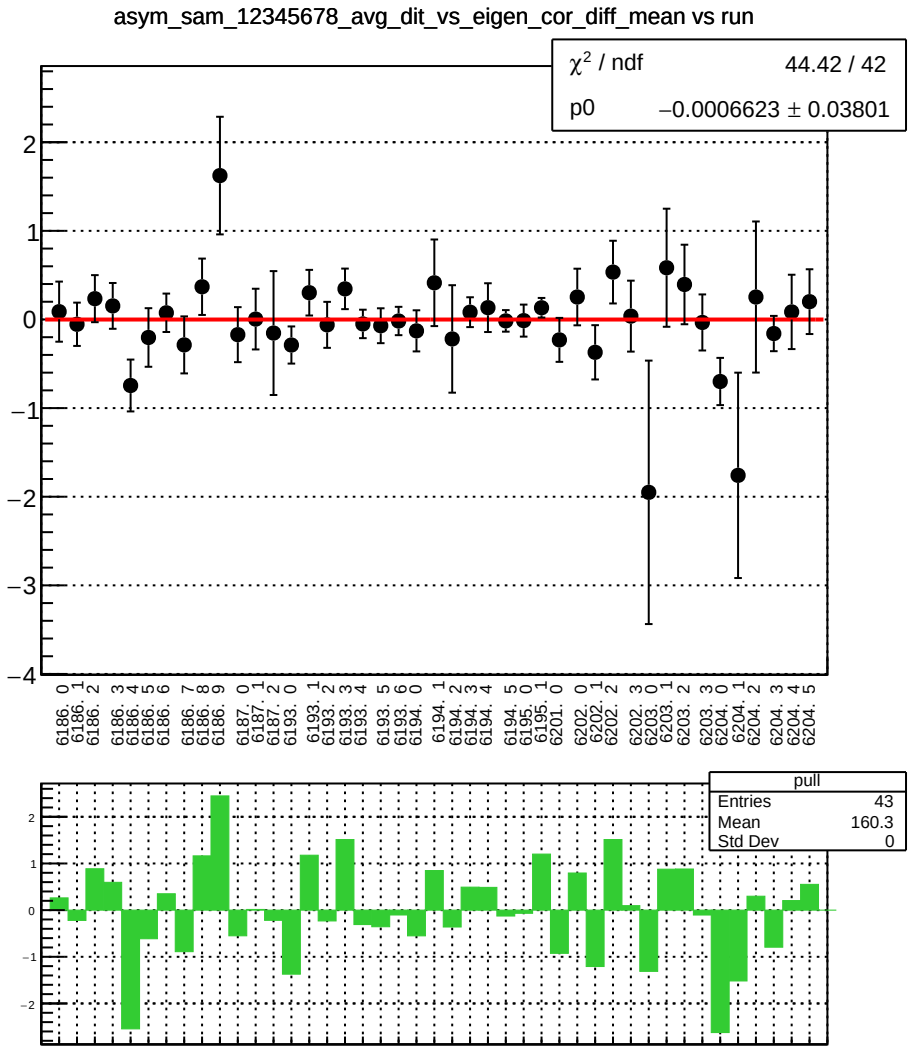

asym_sam_12345678_avg_rms vs run
χ² / ndf 4262 / 42
p0 1129 ± 1.231
1500
1400
1300
1200
1100
1000
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

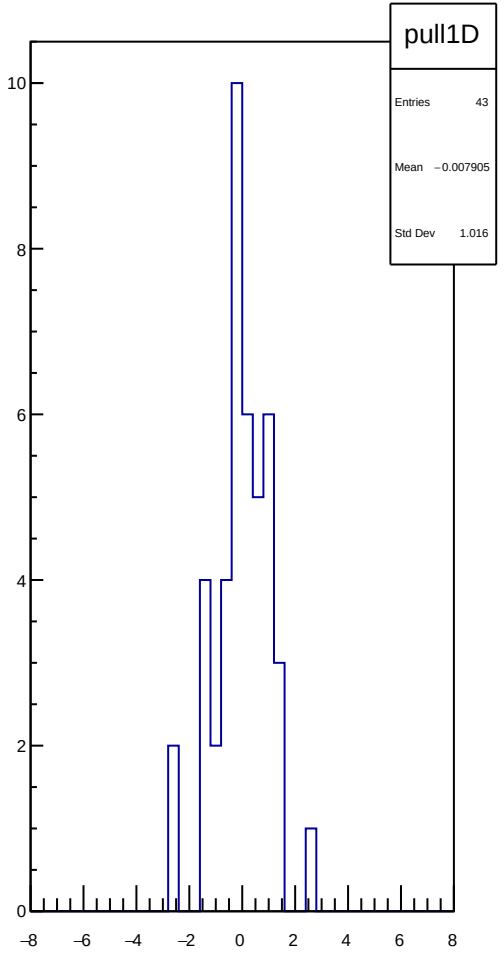

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 52.44 / 42
p0 1.899e−13 ± 2.184e−13
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 59.19
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.04376
Std Dev 1.104
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

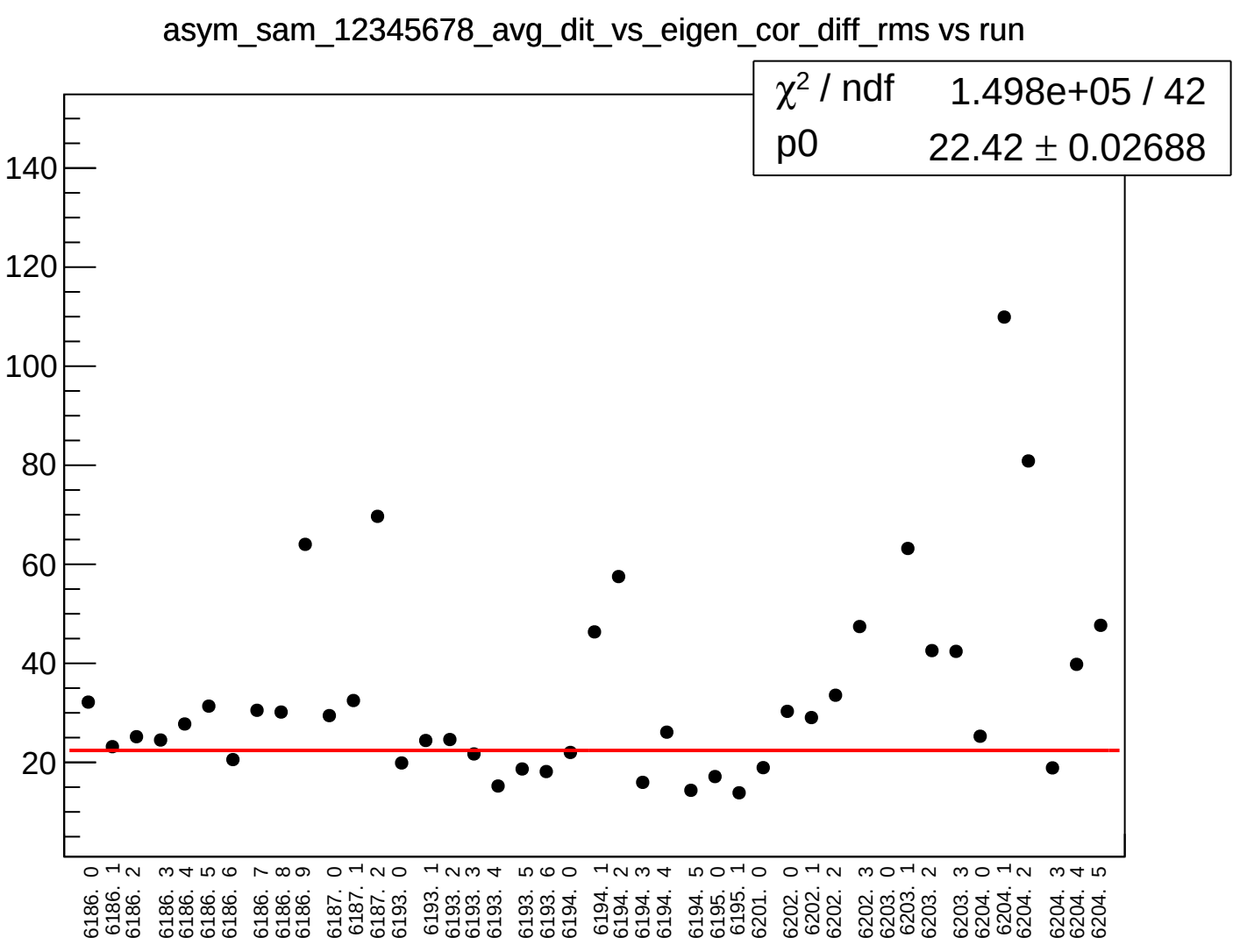

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 4.806e+05 / 42
p0 9.325e−11 ± 1.544e−13
0.05
0.04
0.03
0.02
0.01
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

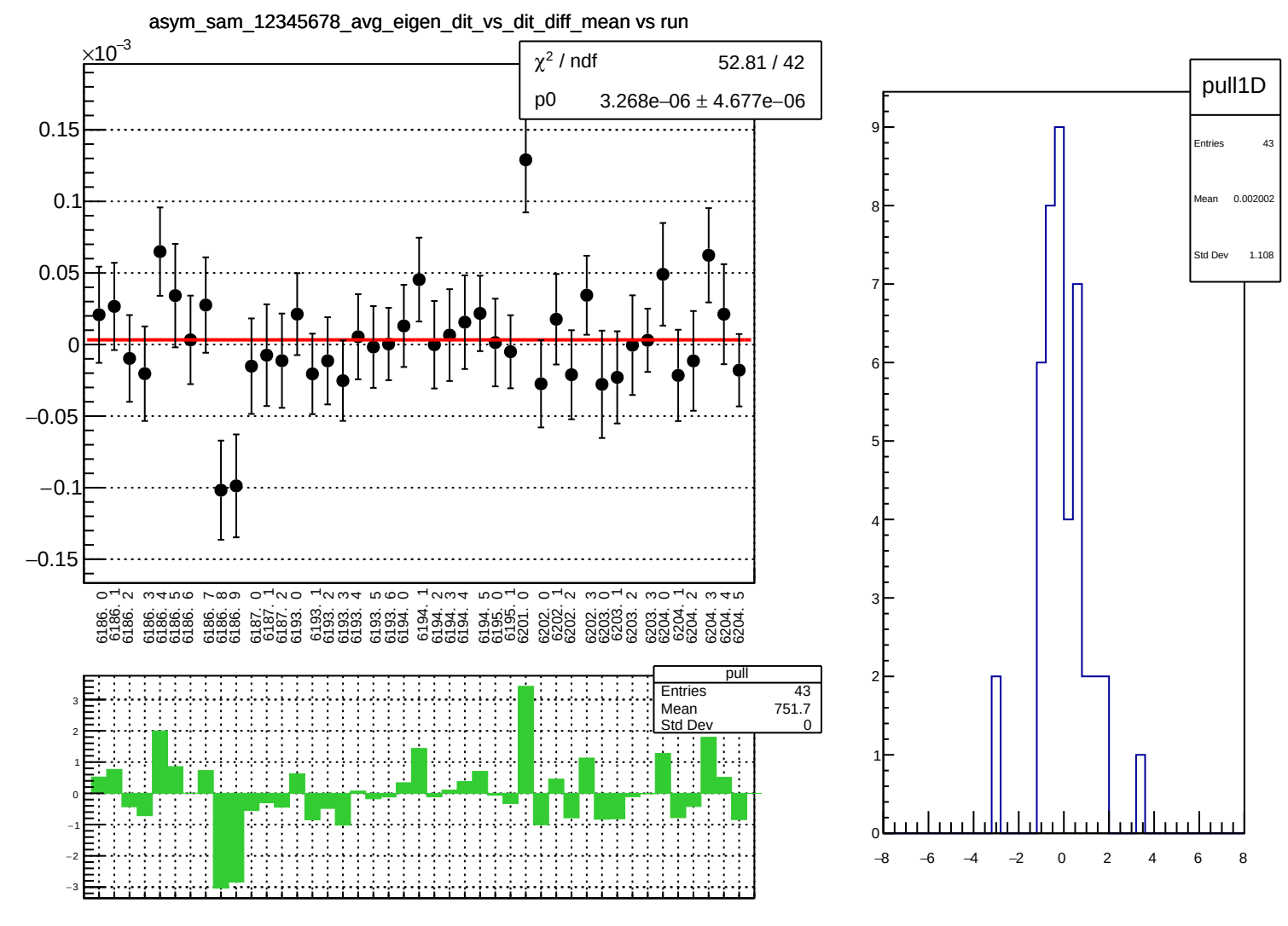

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 44.42 / 42
p0 −0.0006623 ± 0.03801
pull
Entries 43
Mean 160.3
Std Dev 0
pull1D
Entries 43
Mean −0.007905
Std Dev 1.016

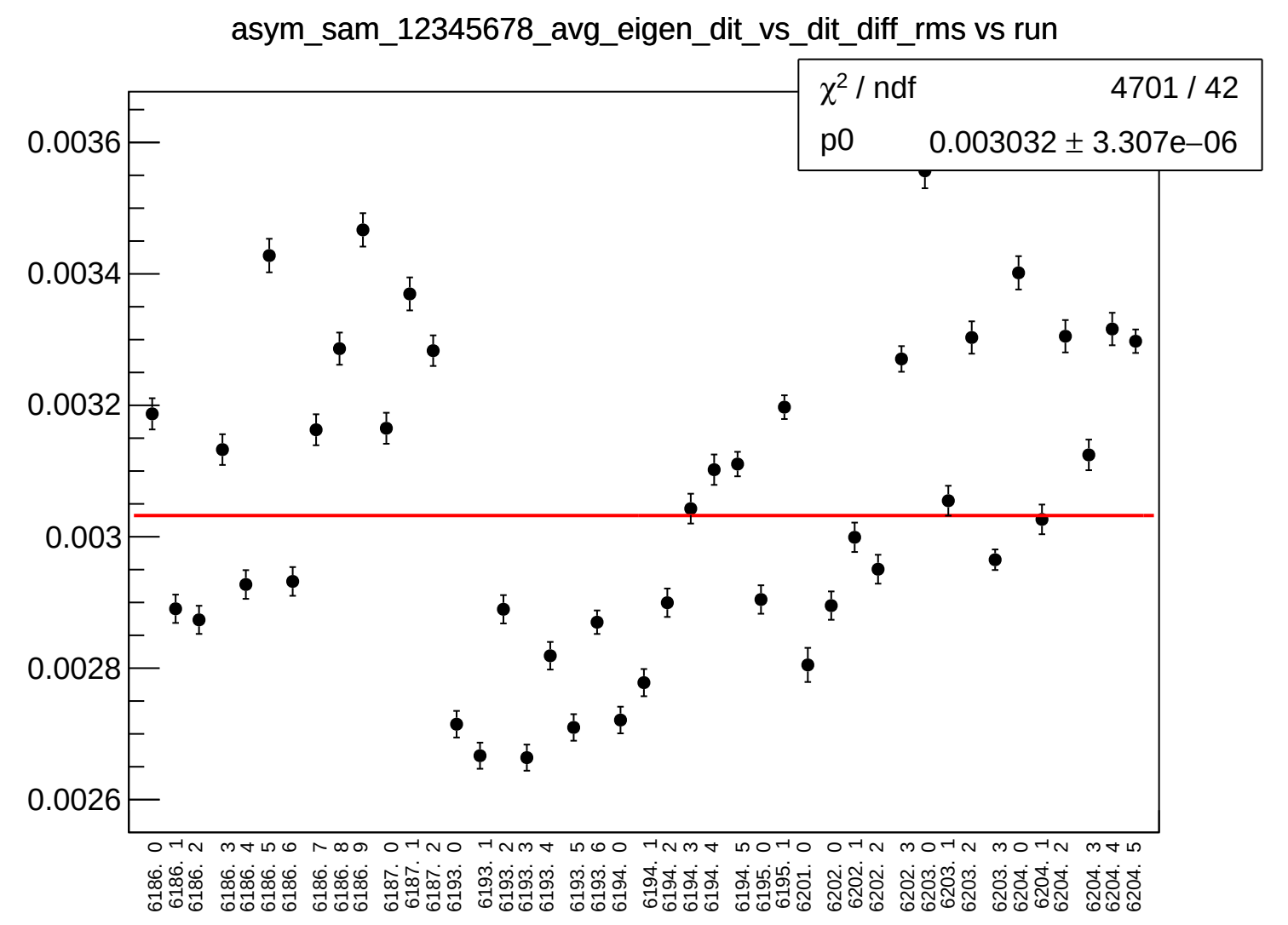

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.498e+05 / 42
p0 22.42 ± 0.02688
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

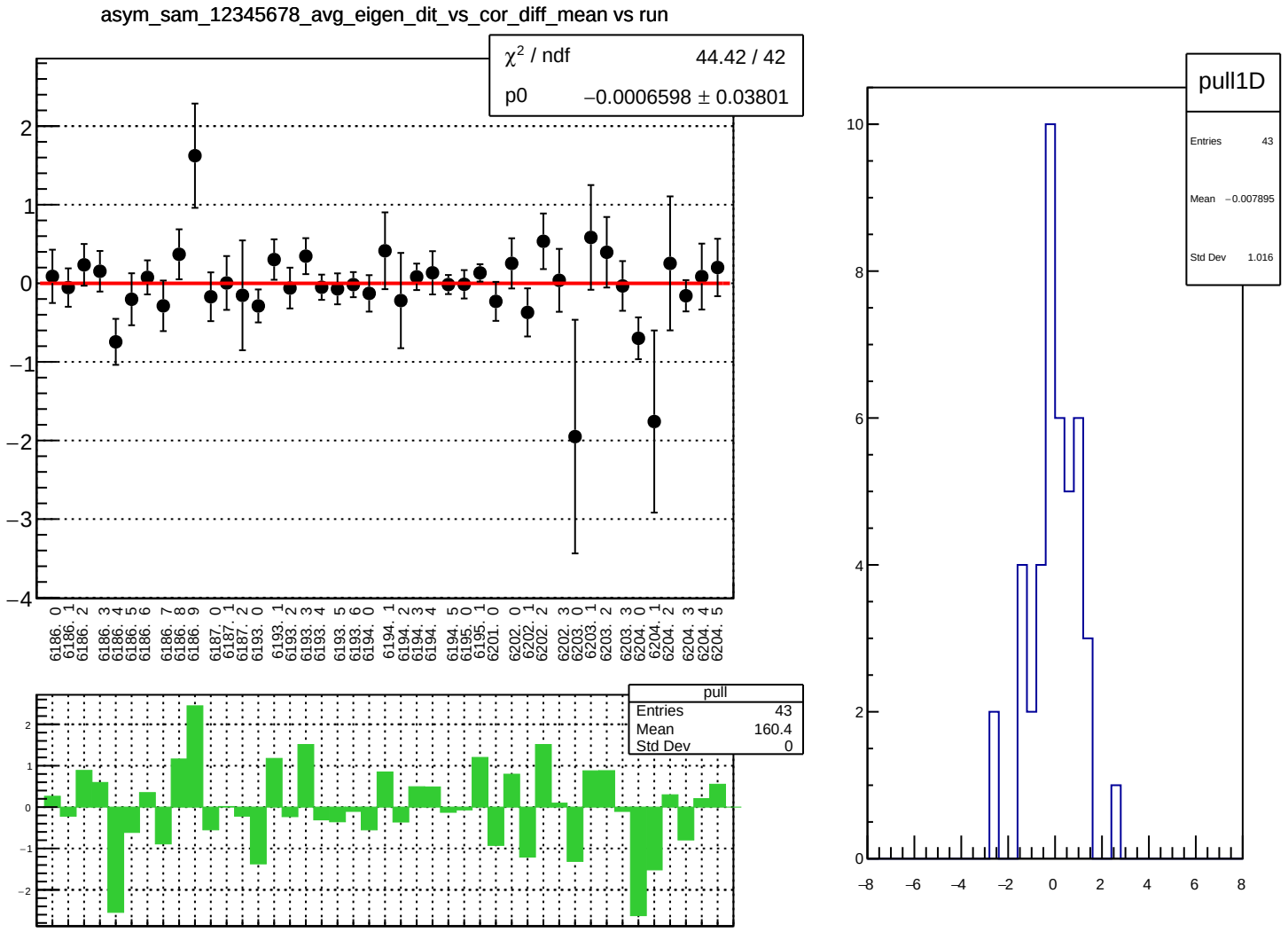

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.42 / 42
p0 −0.0006623 ± 0.03801
pull
Entries 43
Mean 160.3
Std Dev 0

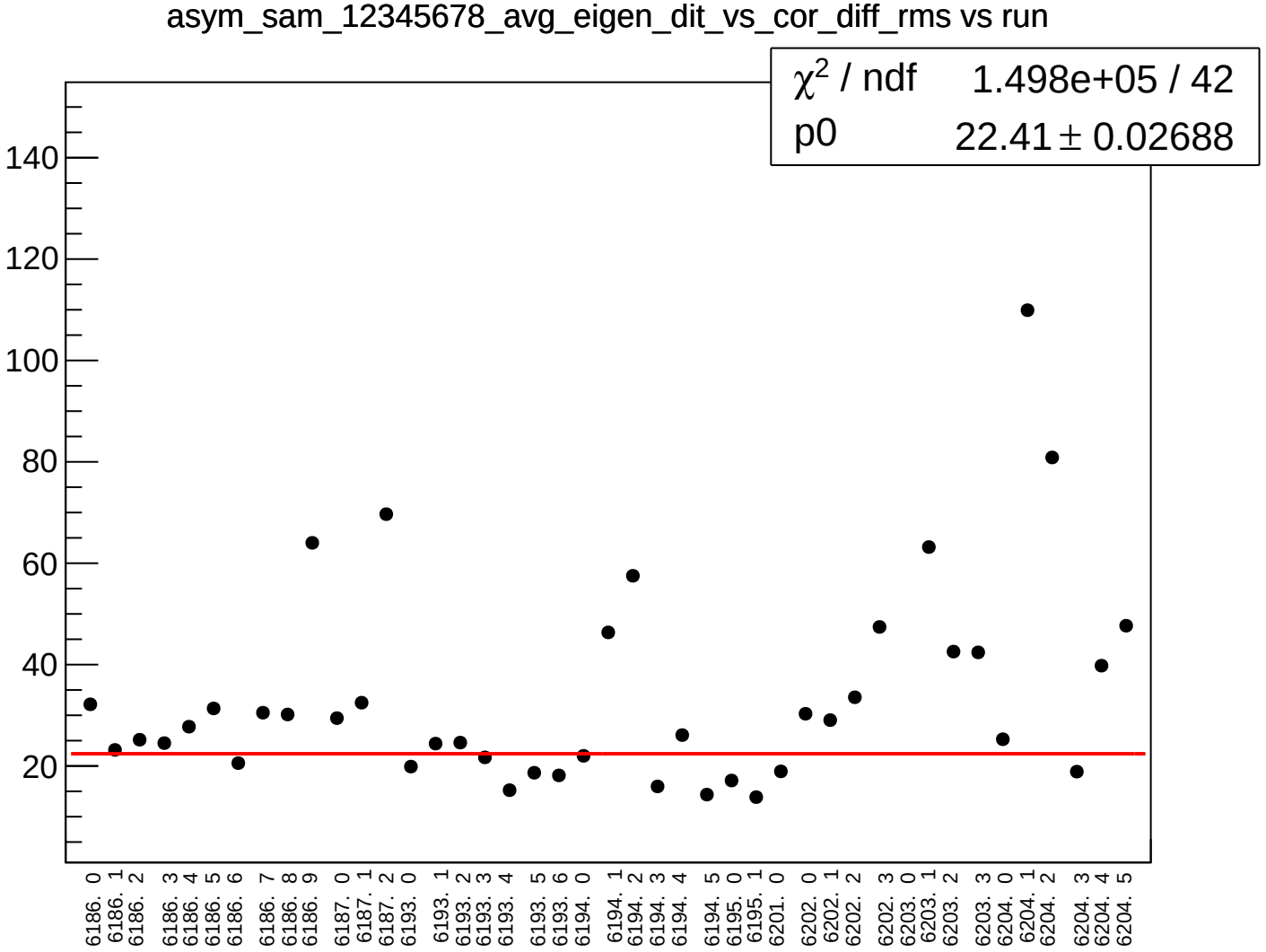

pull1D
Entries 43
Mean −0.007905
Std Dev 1.016

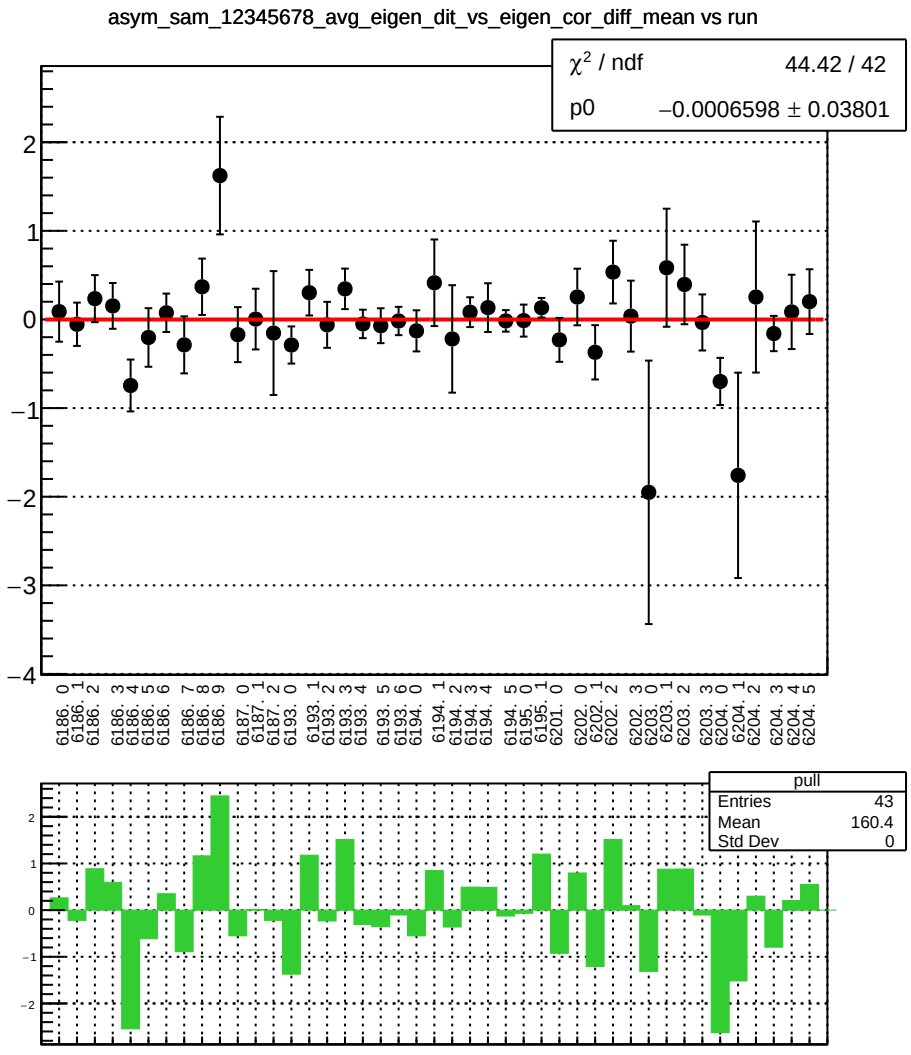

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.498e+05 / 42
p0 22.42 ± 0.02688
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

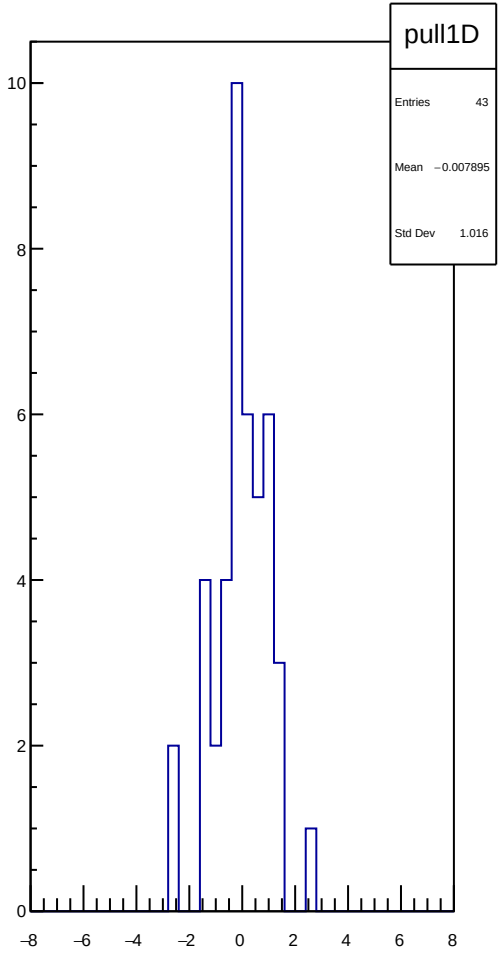

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 52.81 / 42
p0 3.268e−06 ± 4.677e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 751.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.002002
Std Dev 1.108
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

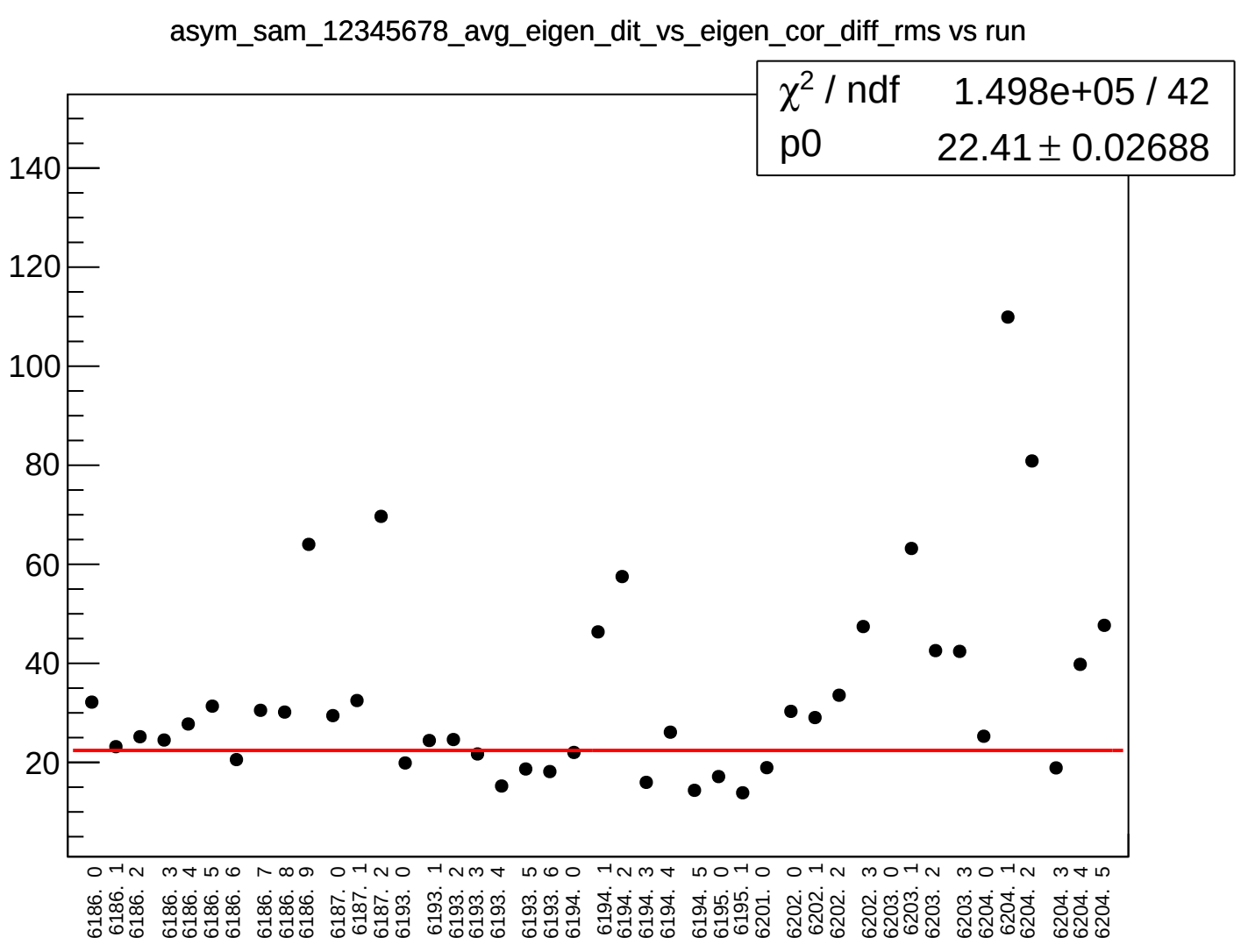

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4701 / 42
p0 0.003032 ± 3.307e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

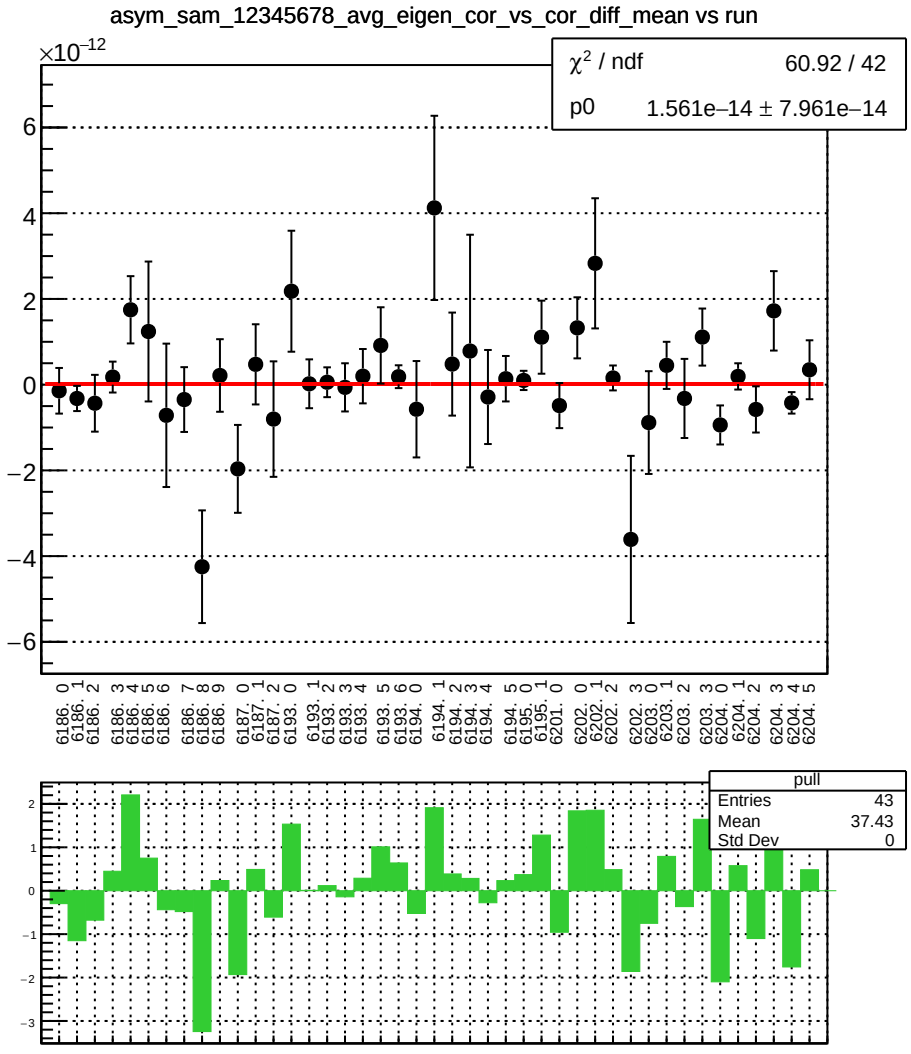

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 44.42 / 42
p0 −0.0006598 ± 0.03801
pull
Entries 43
Mean 160.4
Std Dev 0
pull1D
Entries 43
Mean −0.007895
Std Dev 1.016

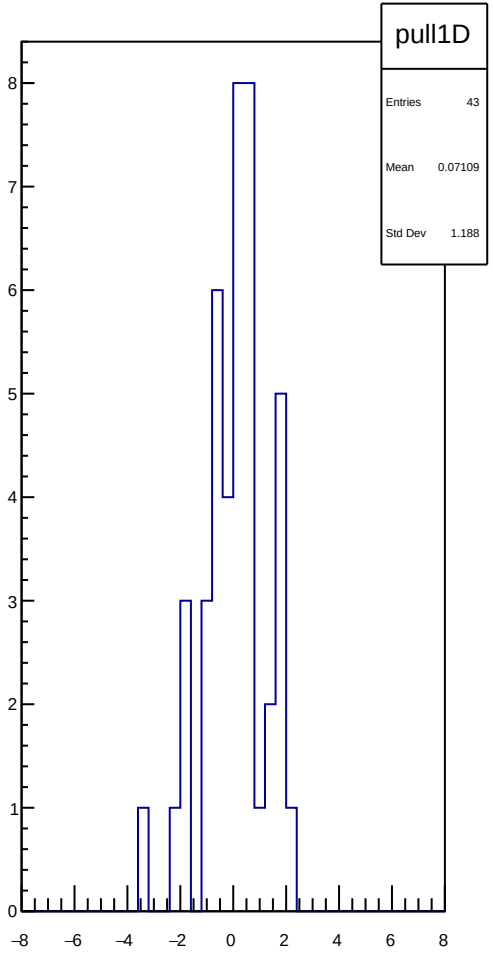

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.498e+05 / 42
p0 22.41 ± 0.02688
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

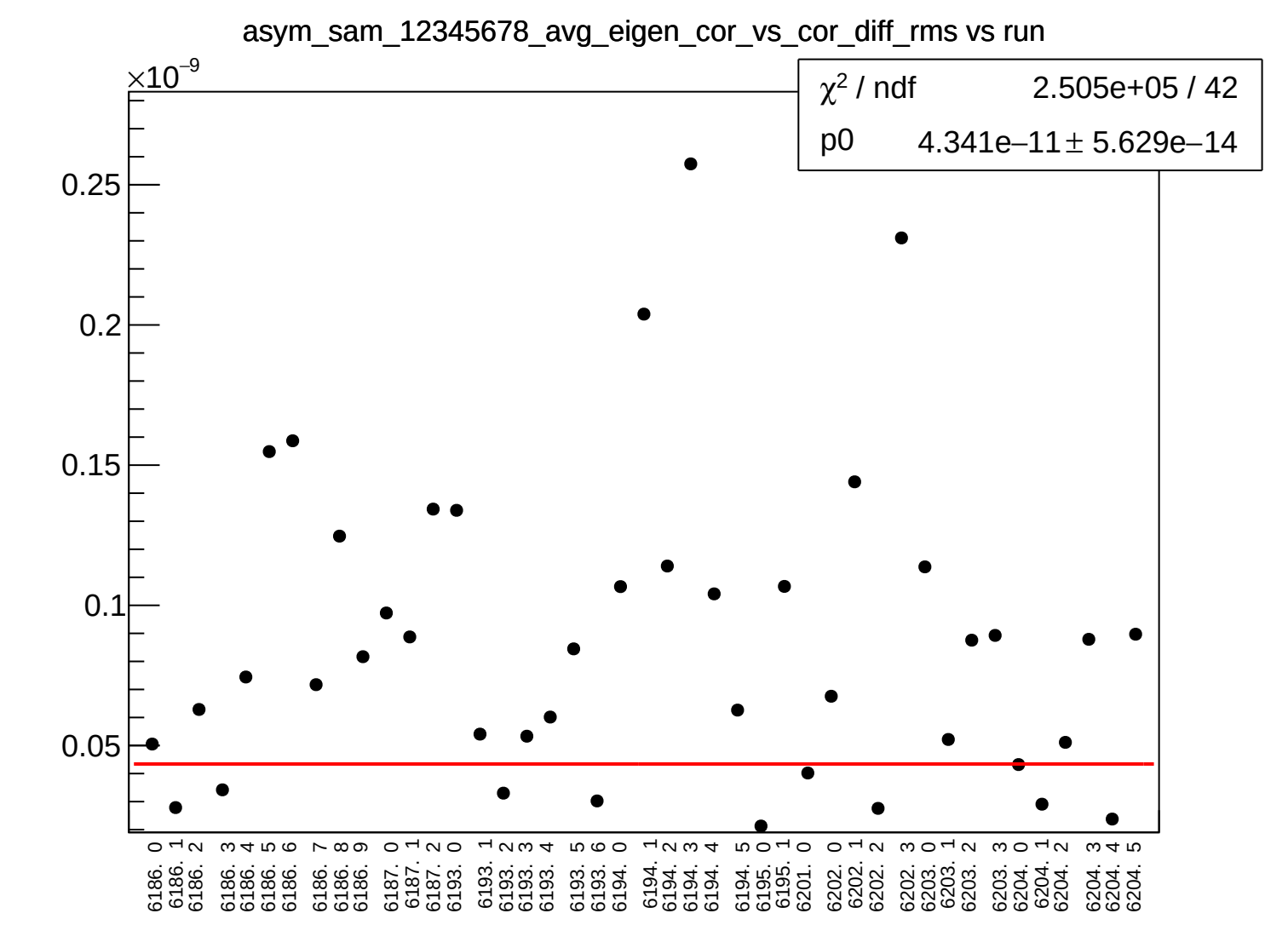

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 44.42 / 42
p0 −0.0006598 ± 0.03801
pull
Entries 43
Mean 160.4
Std Dev 0

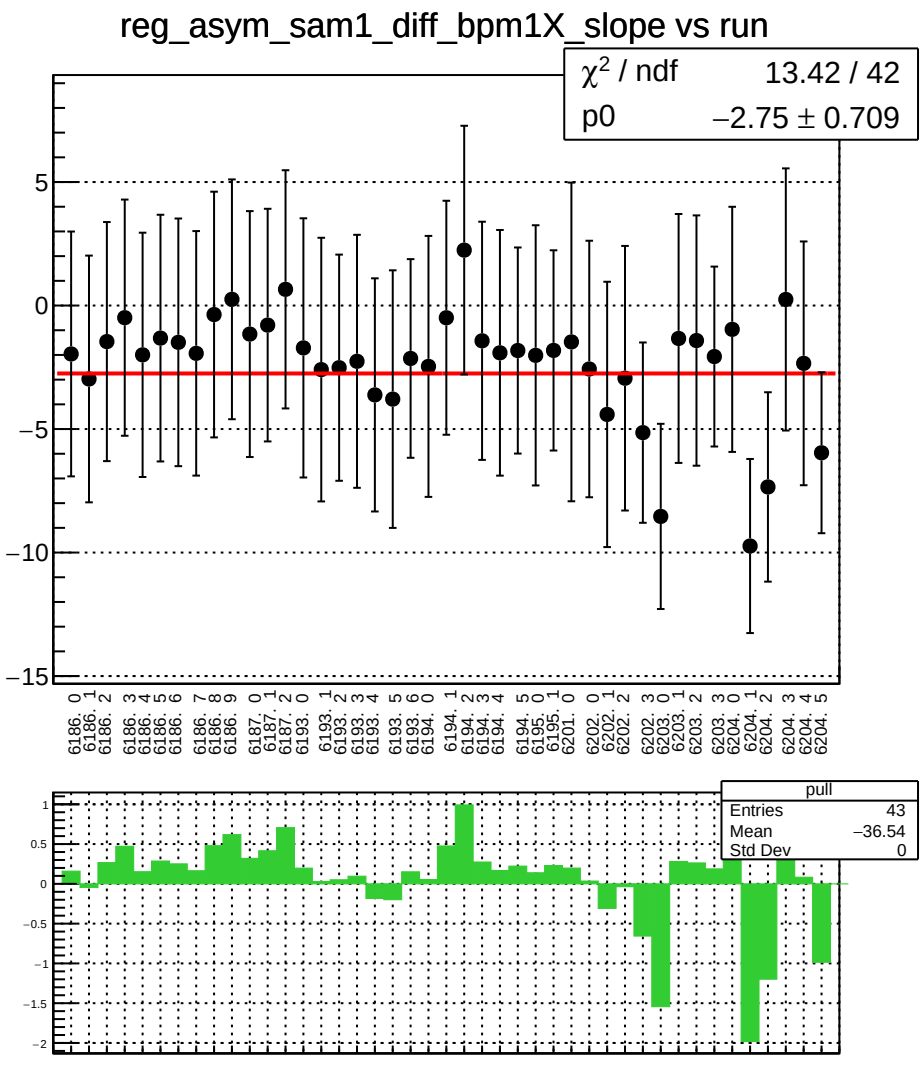

pull1D
Entries 43
Mean −0.007895
Std Dev 1.016

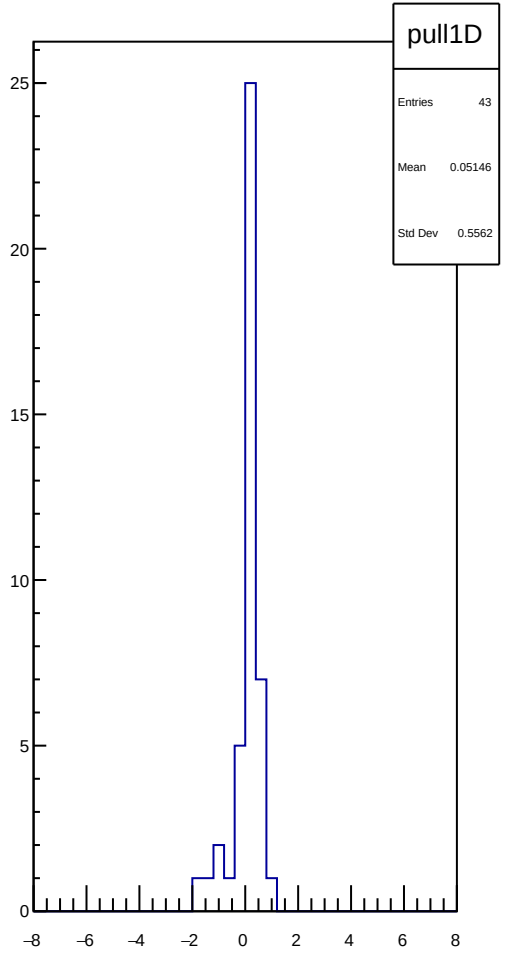

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.498e+05 / 42
p0 22.41 ± 0.02688
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

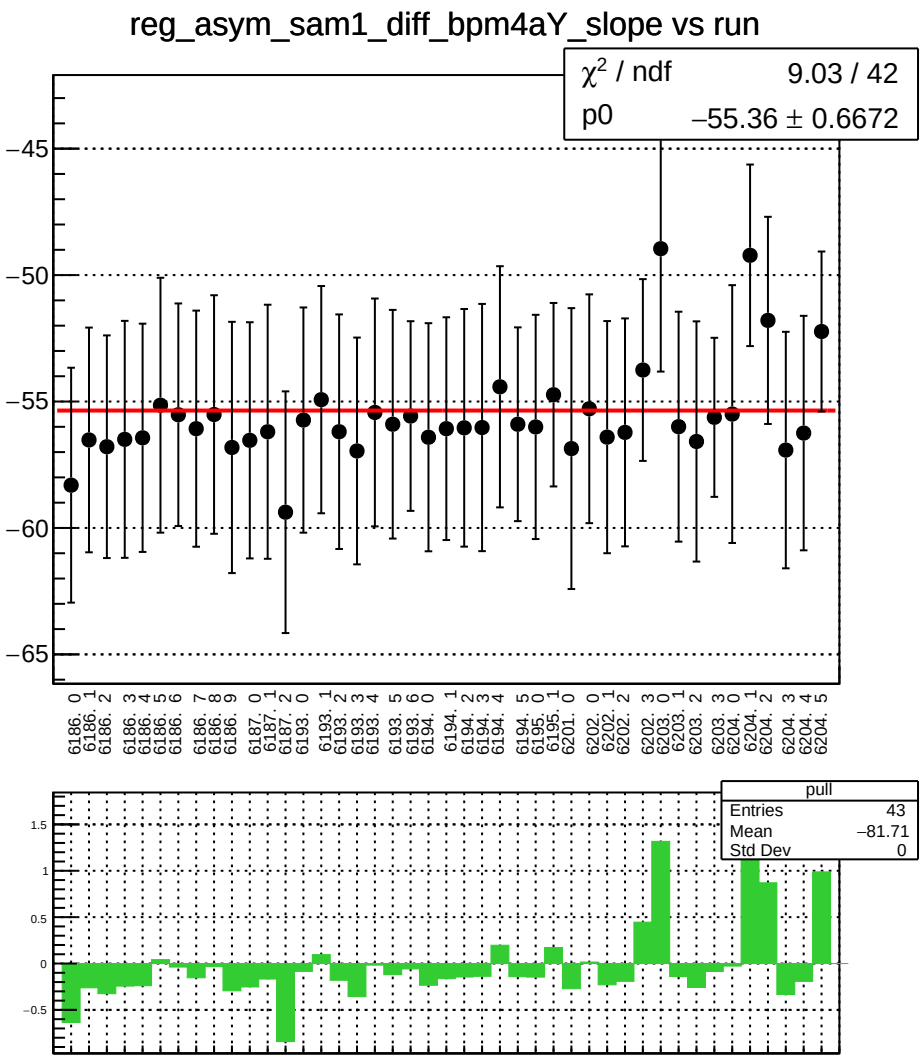

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 60.92 / 42
p0 1.561e−14 ± 7.961e−14
pull
Entries 43
Mean 37.43
Std Dev 0

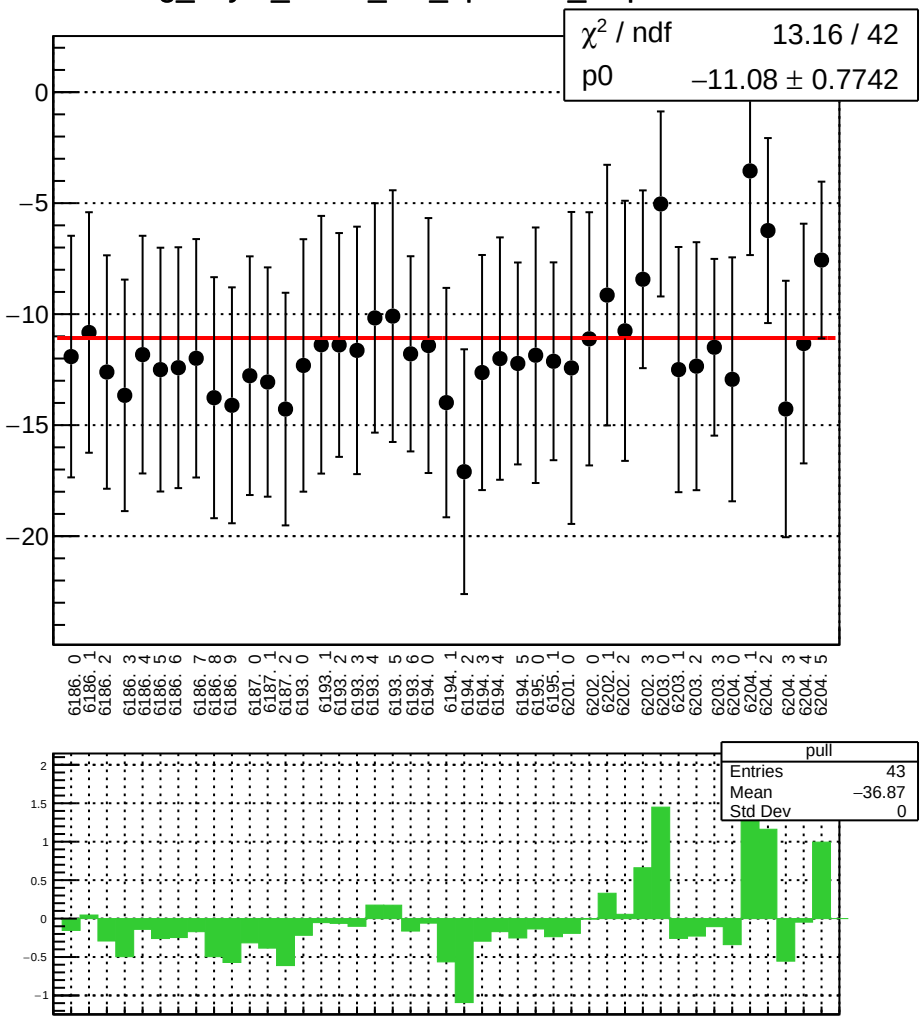

pull1D
Entries 43
Mean 0.07109
Std Dev 1.188

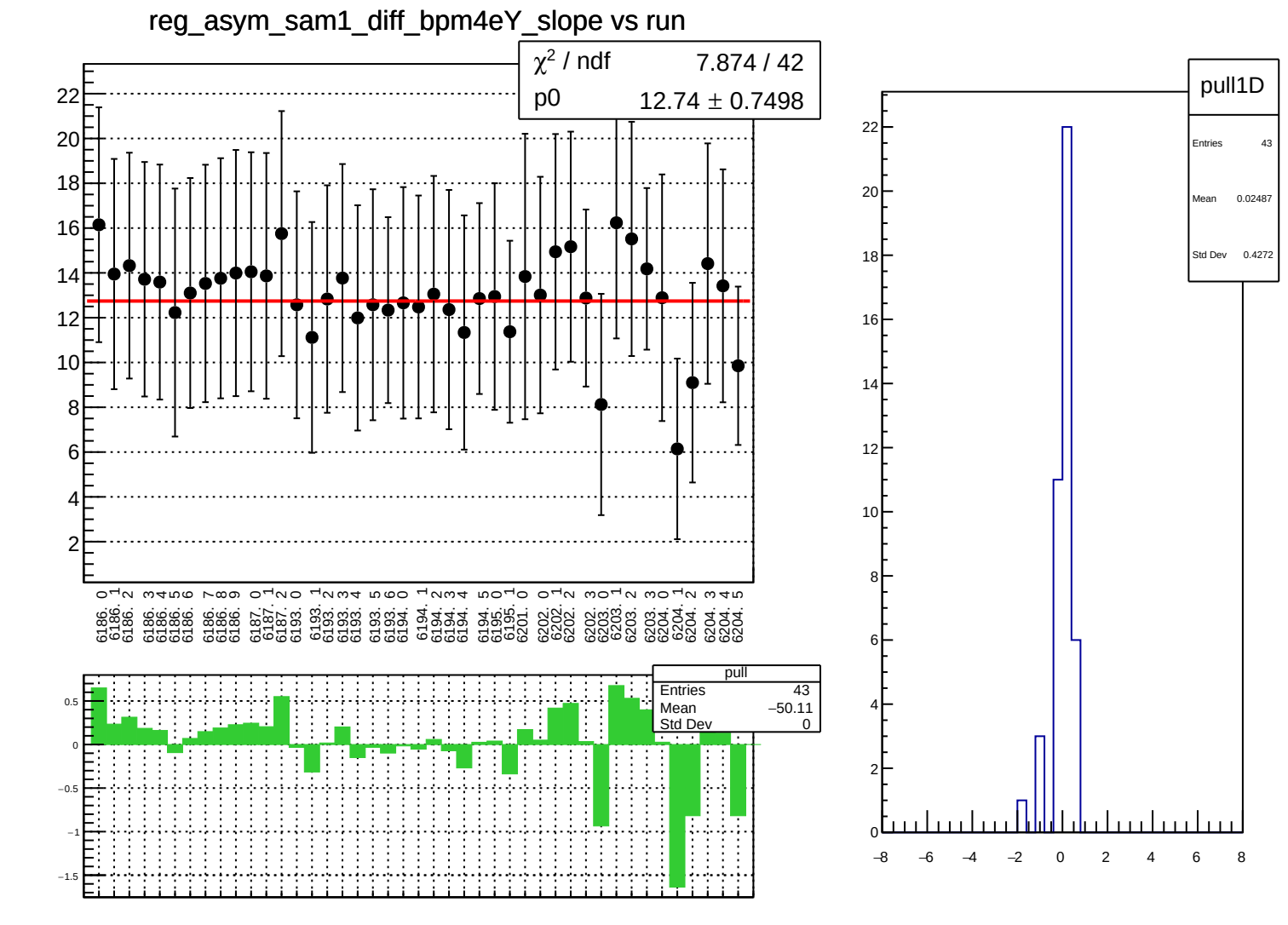

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 2.505e+05 / 42
p0 4.341e−11 ± 5.629e−14
0.25
0.2
0.15
0.1
0.05
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5

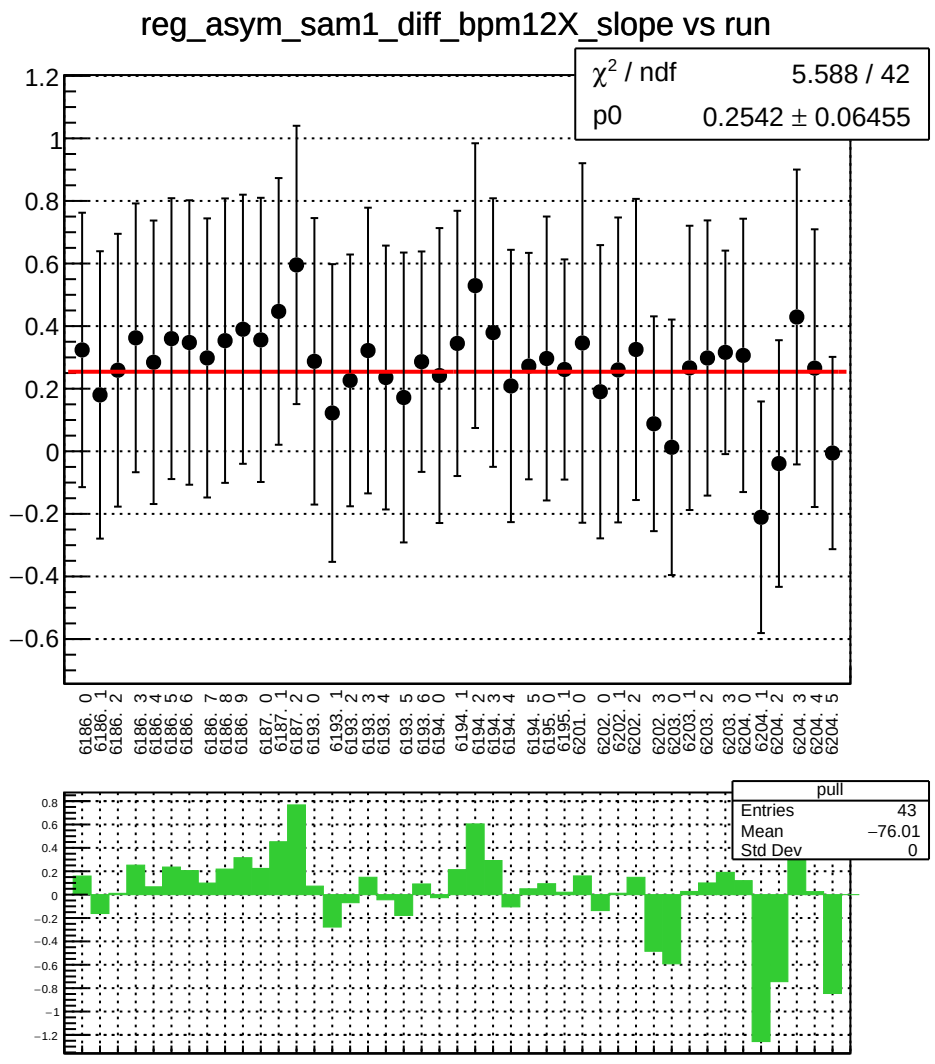

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 13.42 / 42
p0 −2.75 ± 0.709
pull
Entries 43
Mean −36.54
Std Dev 0

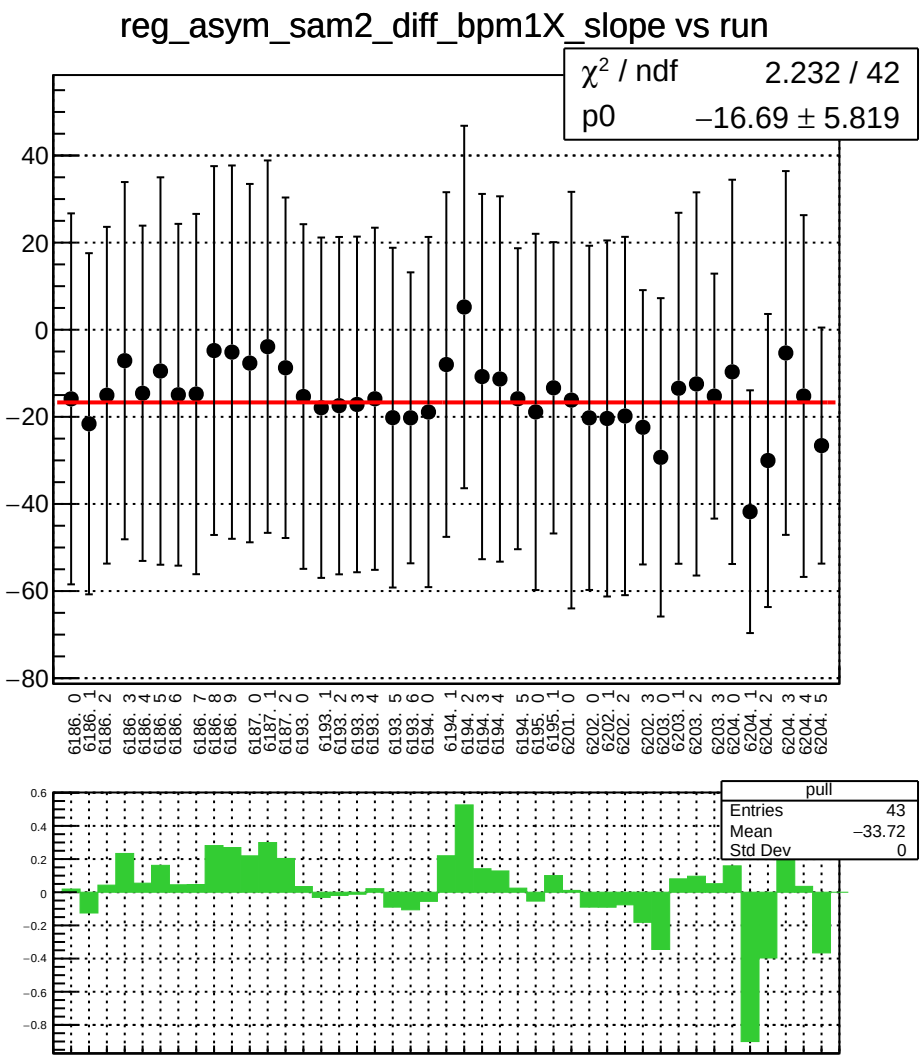

pull1D
Entries 43
Mean 0.05146
Std Dev 0.5562

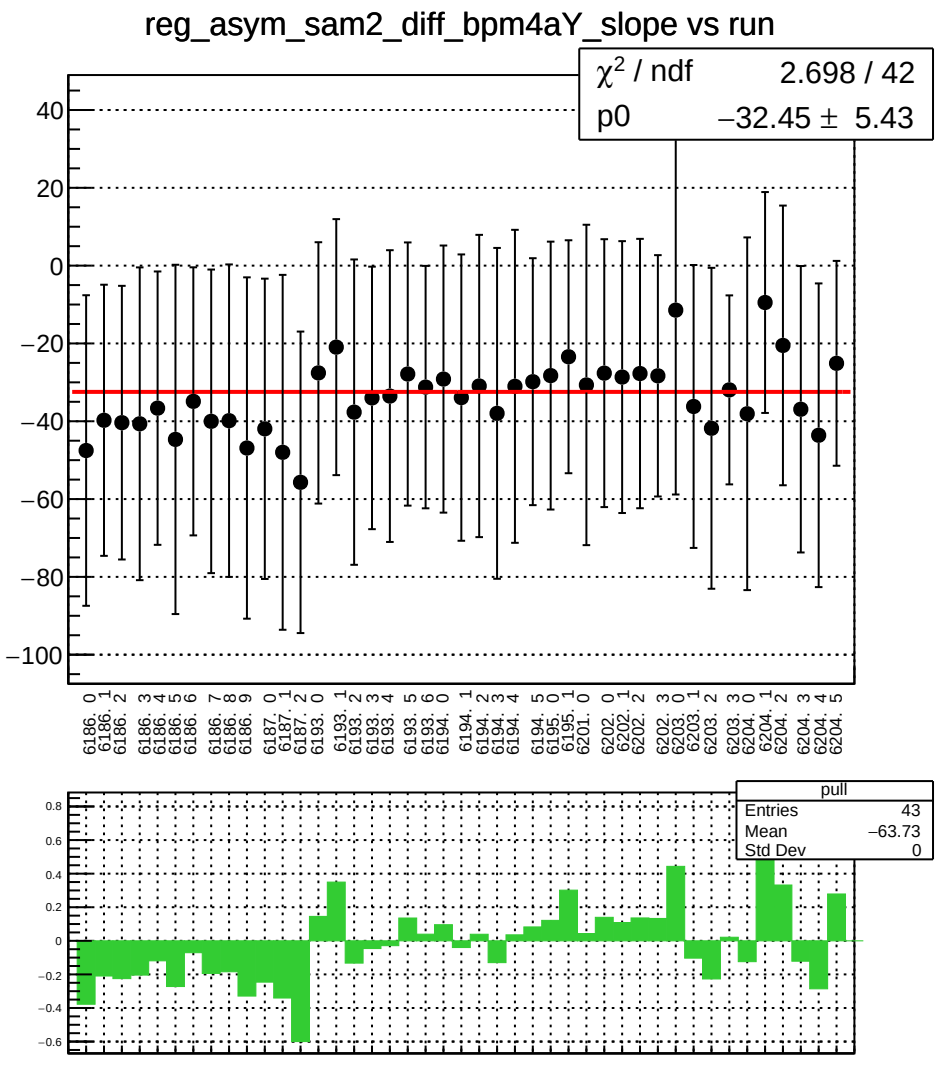

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 9.03 / 42
p0 −55.36 ± 0.6672
−45
−50
−55
−60
−65
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −81.71
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.02656
Std Dev 0.4575
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

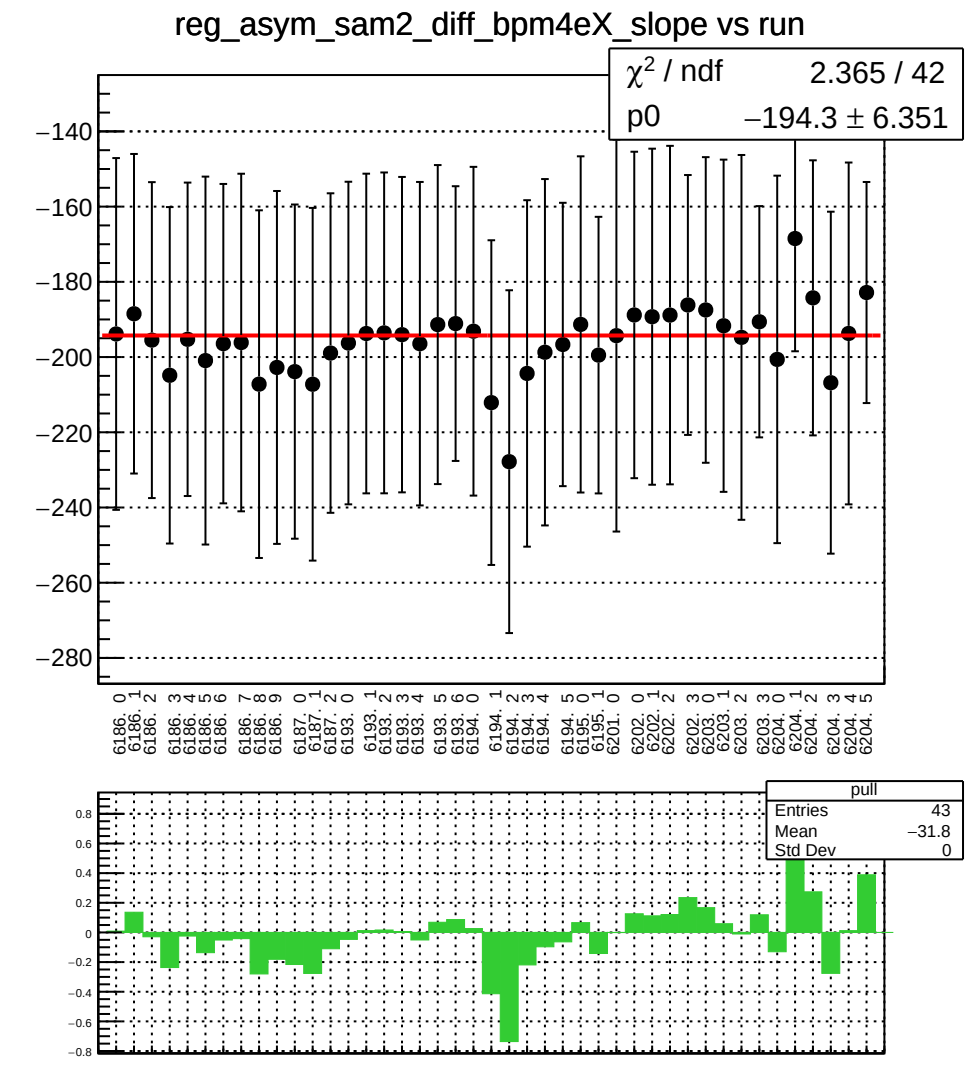

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 13.16 / 42
p0 −11.08 ± 0.7742
0
−5
−10
−15
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −36.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.05167
Std Dev 0.5508
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

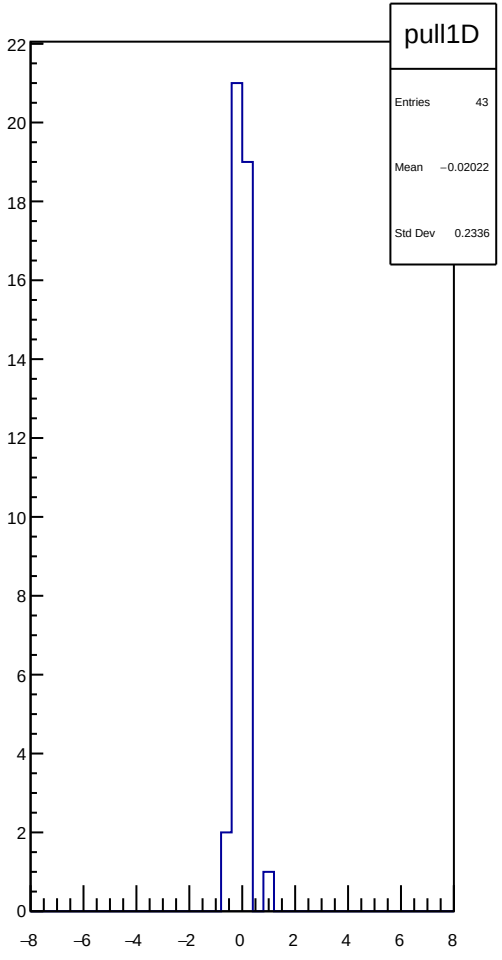

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 7.874 / 42
p0 12.74 ± 0.7498
pull
Entries 43
Mean −50.11
Std Dev 0
pull1D
Entries 43
Mean 0.02487
Std Dev 0.4272

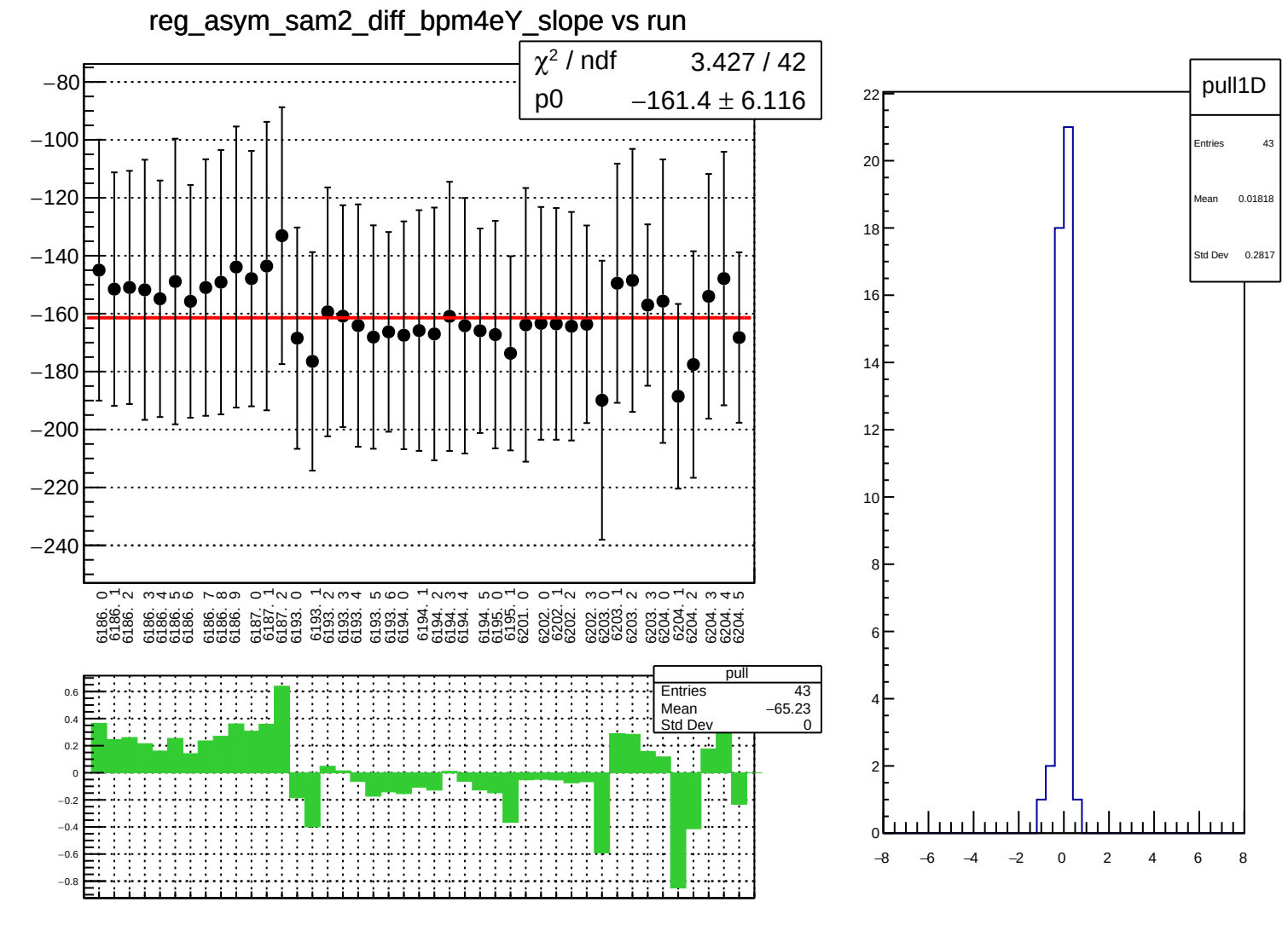

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 5.588 / 42
p0 0.2542 ± 0.06455
pull
Entries 43
Mean −76.01
Std Dev 0
pull1D
Entries 43
Mean 0.01926
Std Dev 0.36

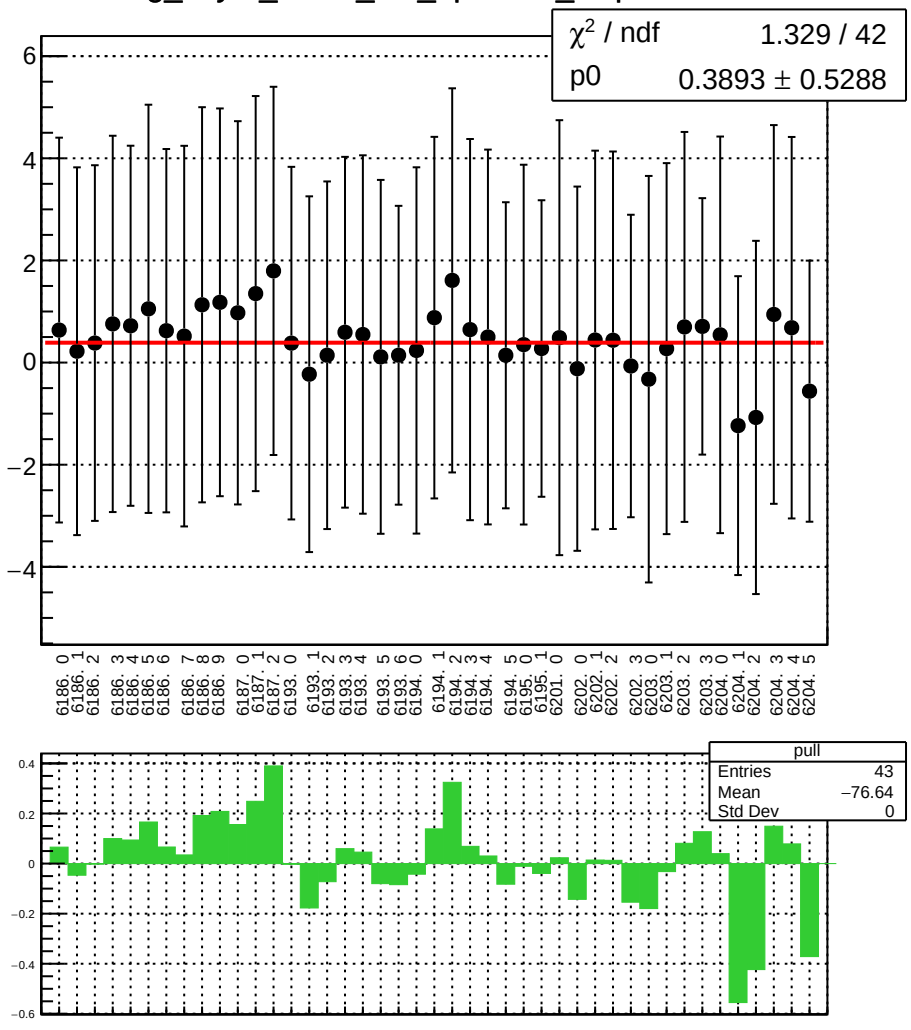

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 2.232 / 42
p0 −16.69 ± 5.819
40
20
0
−20
−40
−60
−80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −33.72
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean 0.01962
Std Dev 0.227
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

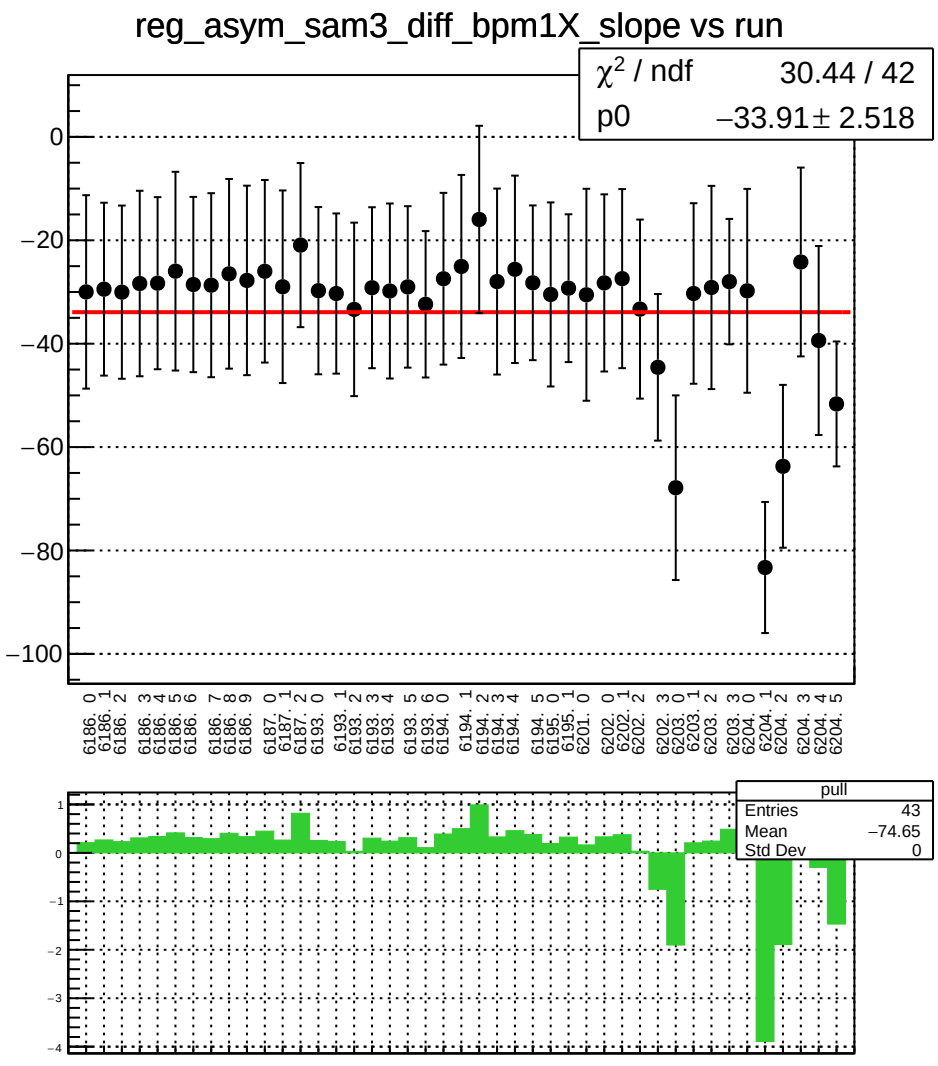

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 2.698 / 42
p0 −32.45 ± 5.43
40
20
0
−20
−40
−60
−80
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −63.73
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean −0.01899
Std Dev 0.2498
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

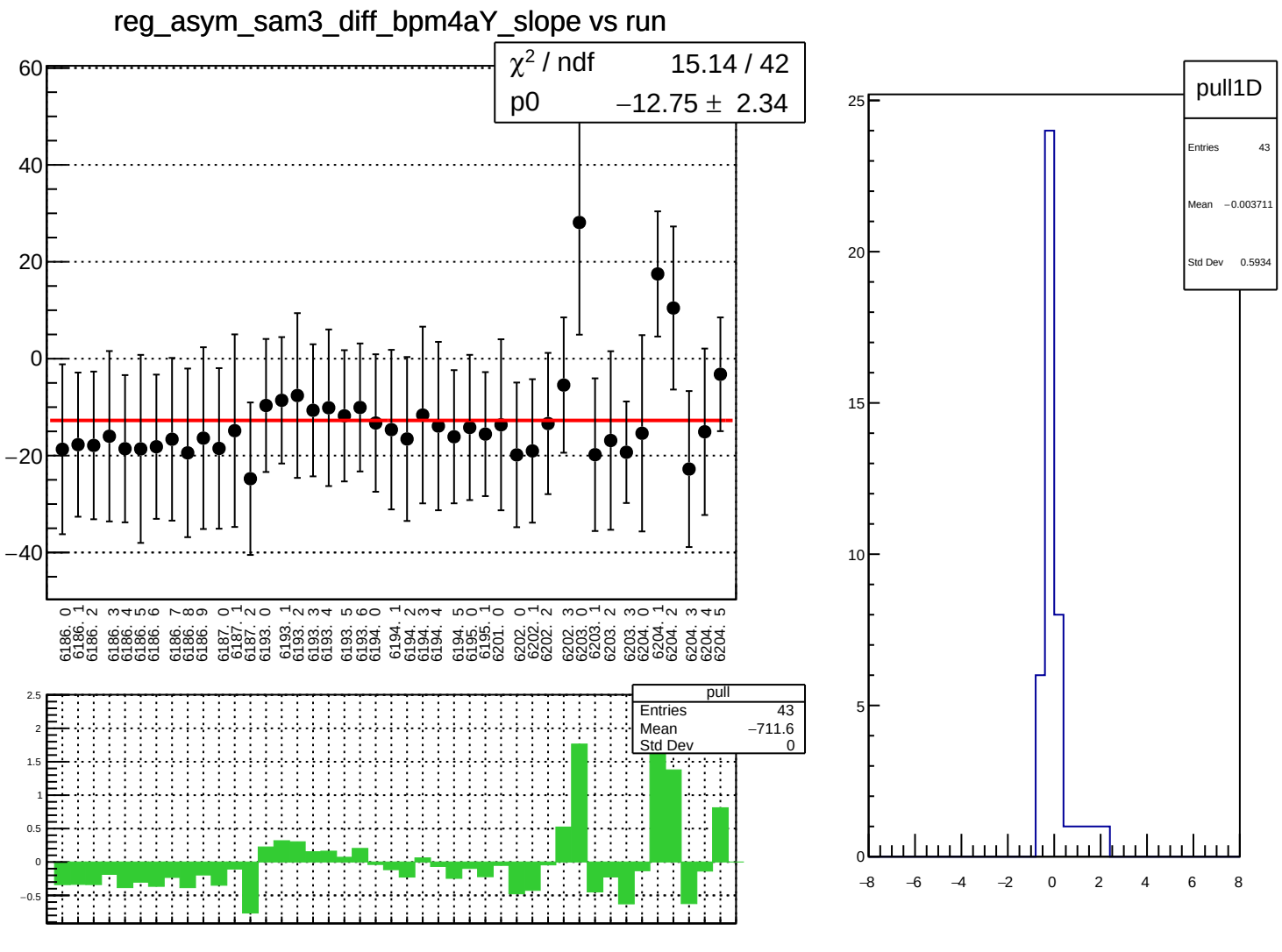

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 2.365 / 42
p0 −194.3 ± 6.351
−140
−160
−180
−200
−220
−240
−260
−280
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −31.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

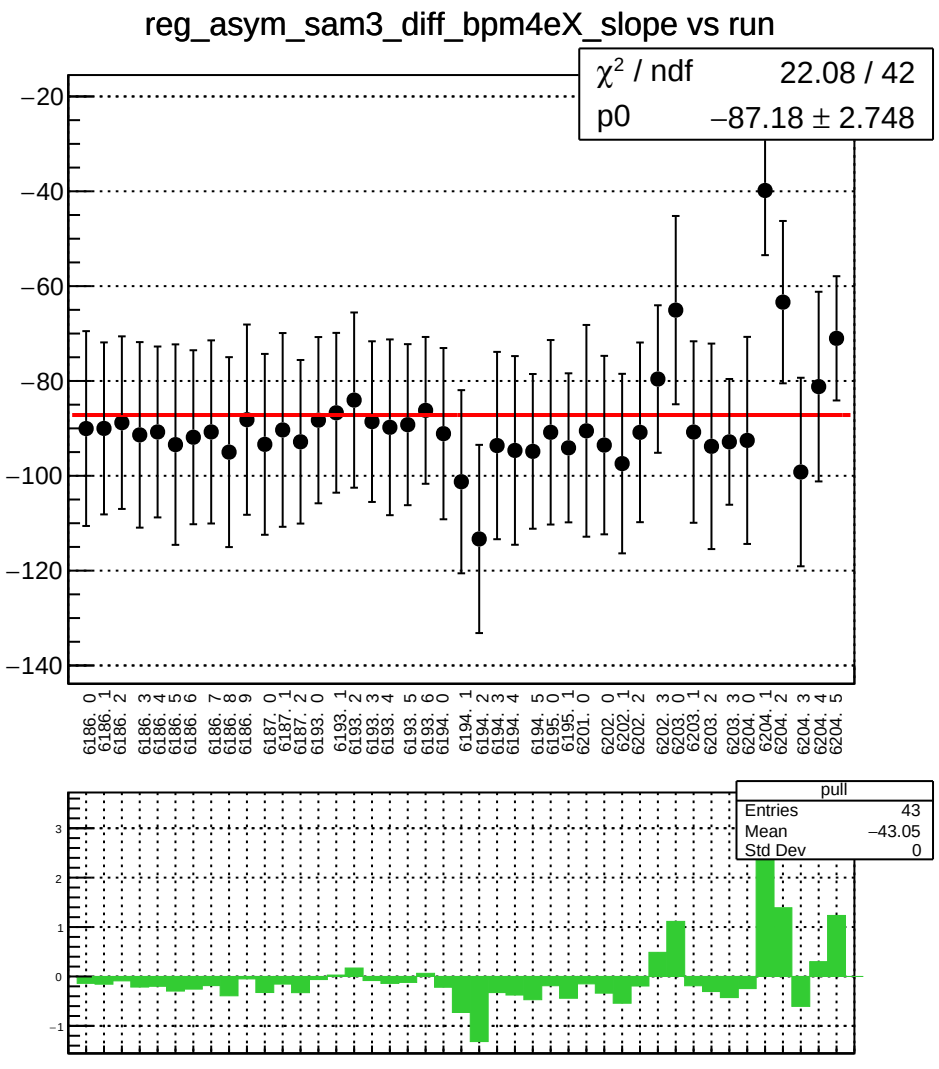

pull1D
Entries 43
Mean −0.02022
Std Dev 0.2336
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

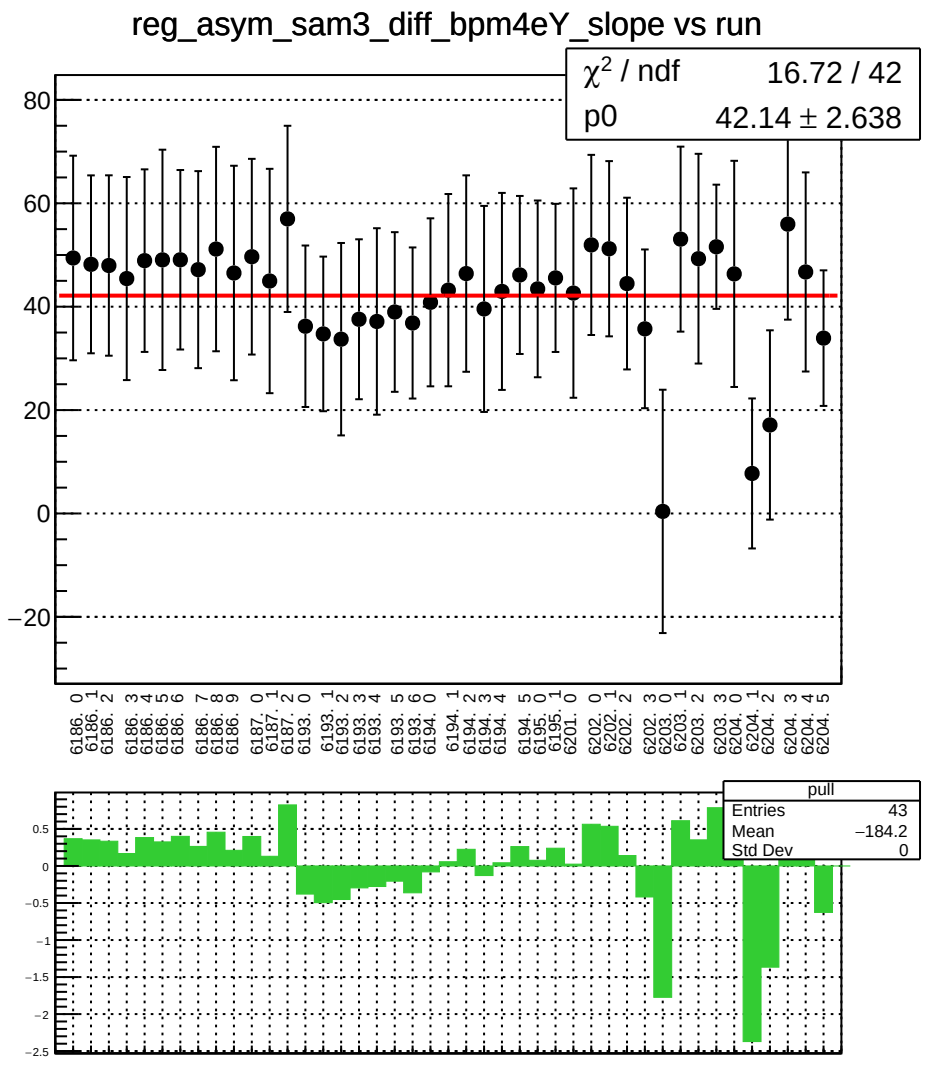

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 3.427 / 42
p0 −161.4 ± 6.116
pull
Entries 43
Mean −65.23
Std Dev 0
pull1D
Entries 43
Mean 0.01818
Std Dev 0.2817

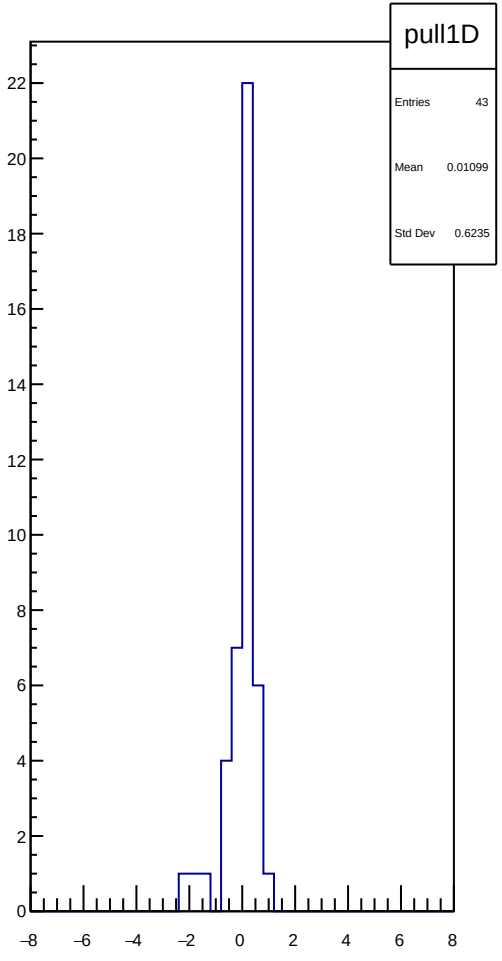

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1.329 / 42
p0 0.3893 ± 0.5288
pull
Entries 43
Mean −76.64
Std Dev 0
pull1D
Entries 43
Mean 0.009669
Std Dev 0.1755

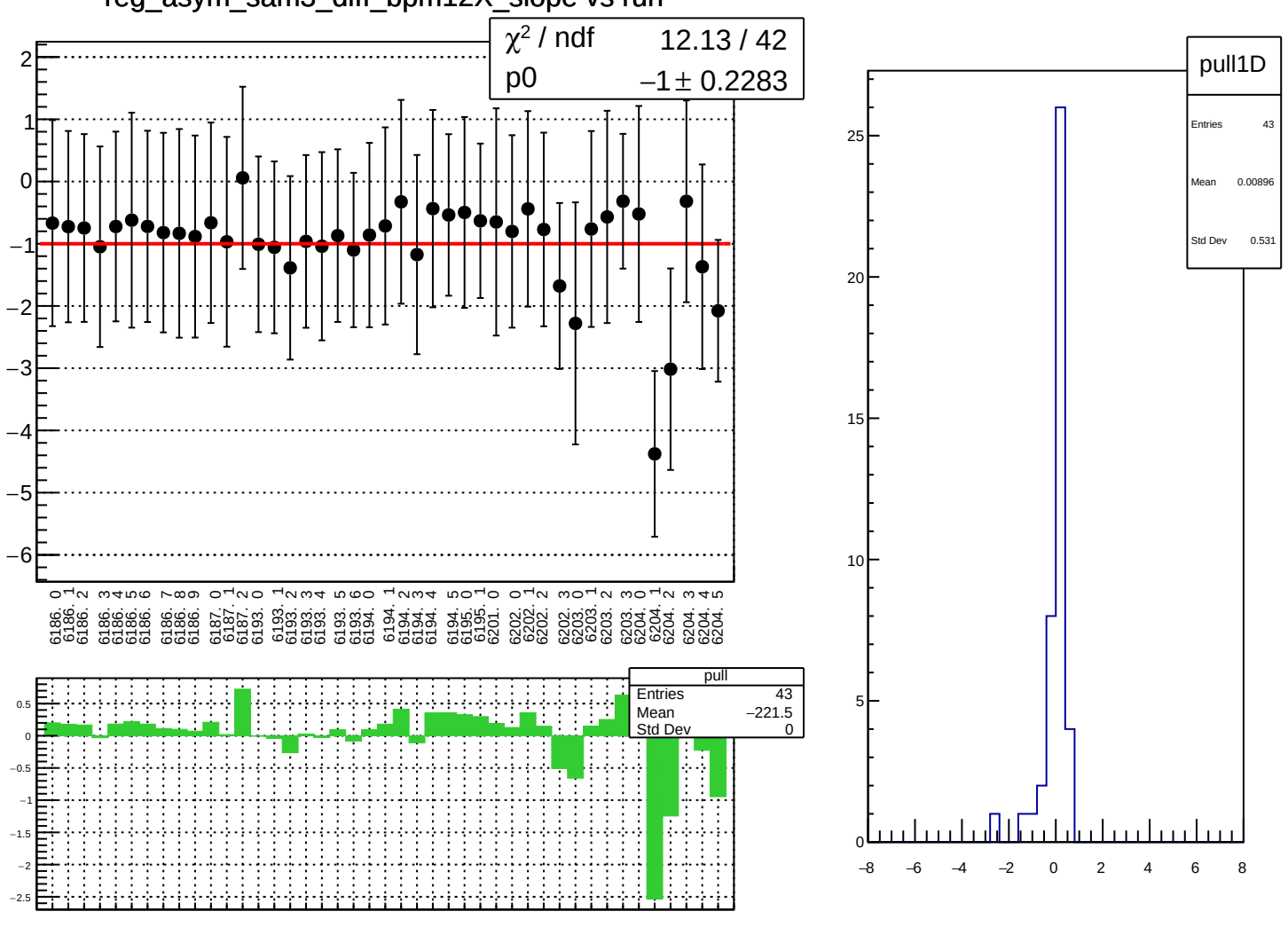

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 30.44 / 42
p0 −33.91 ± 2.518
0
−20
−40
−60
−80
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −74.65
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean 0.04822
Std Dev 0.84
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

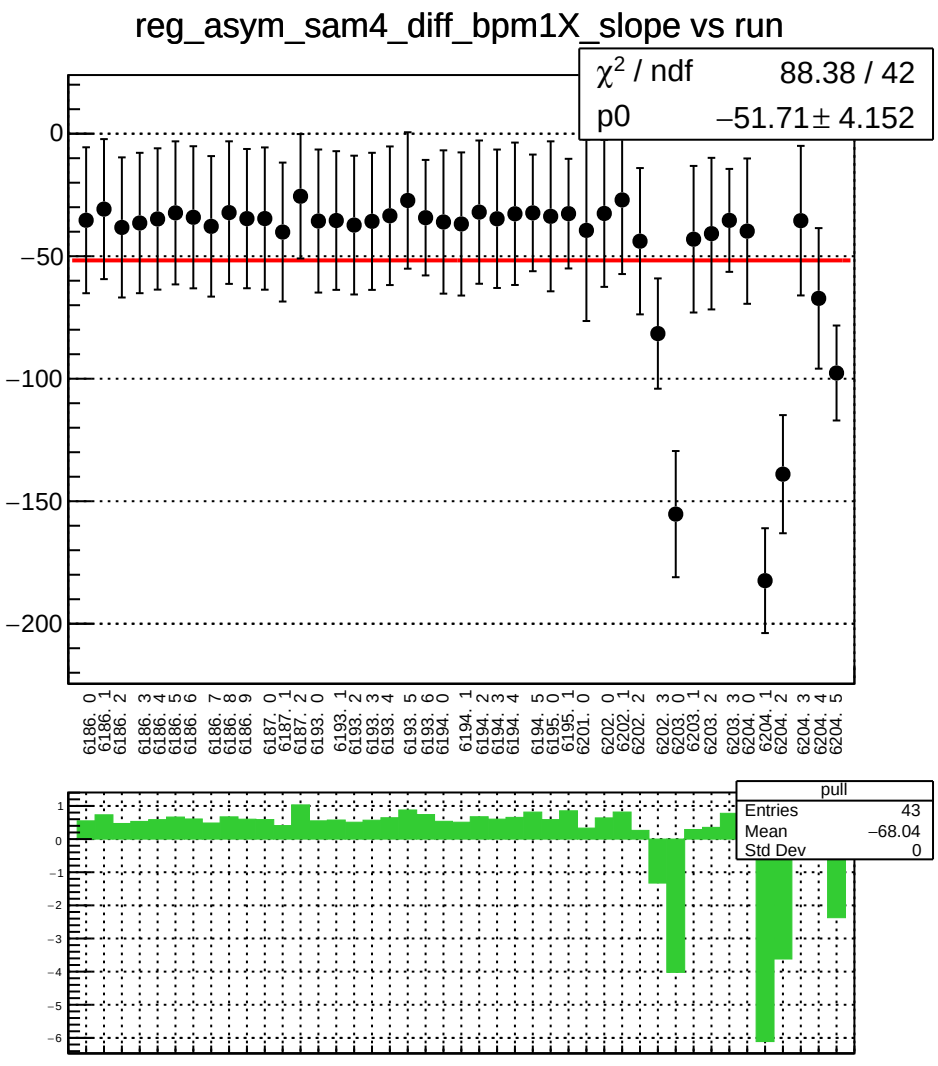

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 15.14 / 42
p0 −12.75 ± 2.34
60
40
20
0
−20
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −711.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.003711
Std Dev 0.5934
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

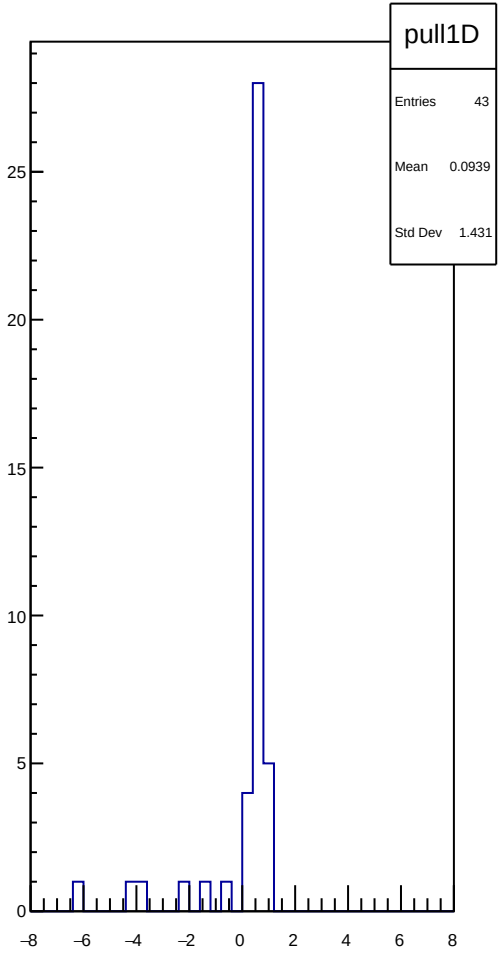

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 22.08 / 42
p0 −87.18 ± 2.748
−20
−40
−60
−80
−100
−120
−140
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −43.05
Std Dev 0
3
2
1
0
−1
pull1D
Entries 43
Mean −0.04596
Std Dev 0.7151
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

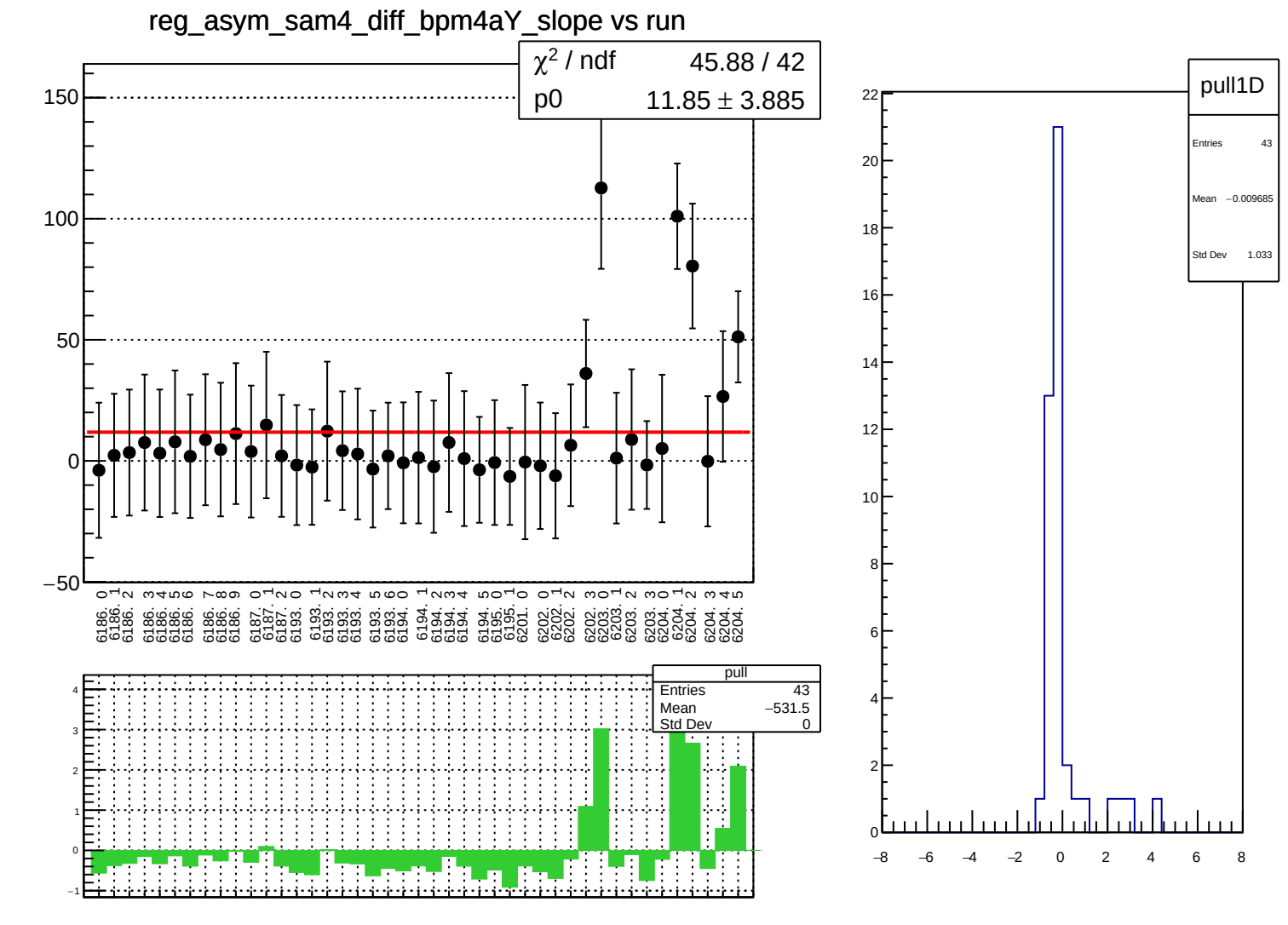

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 16.72 / 42
p0 42.14 ± 2.638
pull
Entries 43
Mean −184.2
Std Dev 0

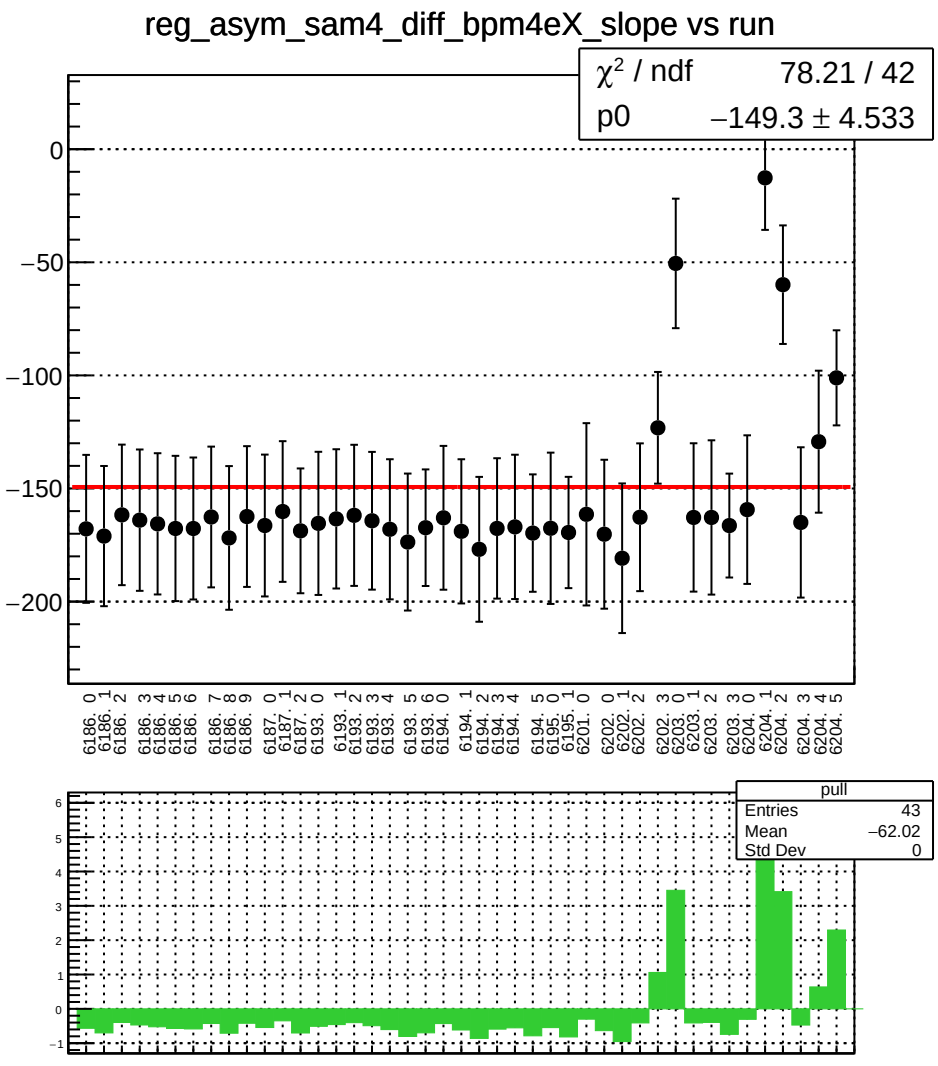

pull1D
Entries 43
Mean 0.01099
Std Dev 0.6235

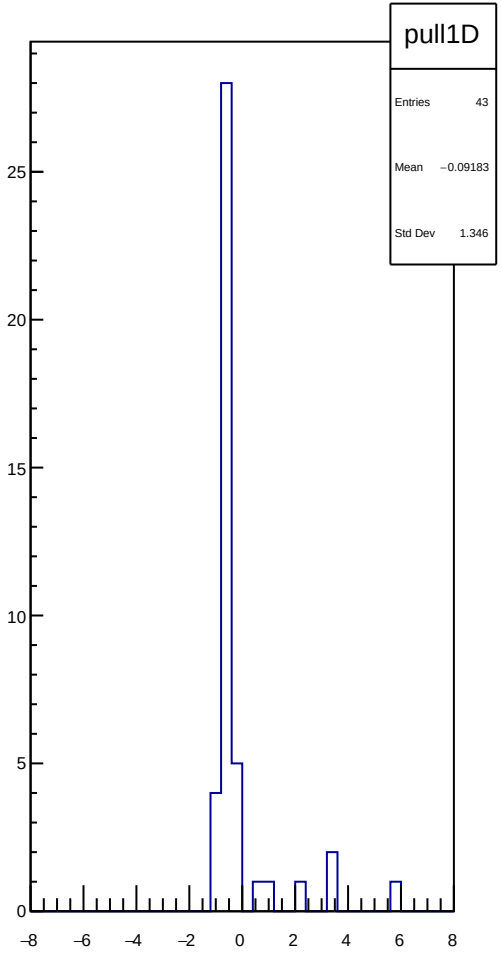

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 12.13 / 42
p0 −1 ± 0.2283
pull
Entries 43
Mean −221.5
Std Dev 0
pull1D
Entries 43
Mean 0.00896
Std Dev 0.531

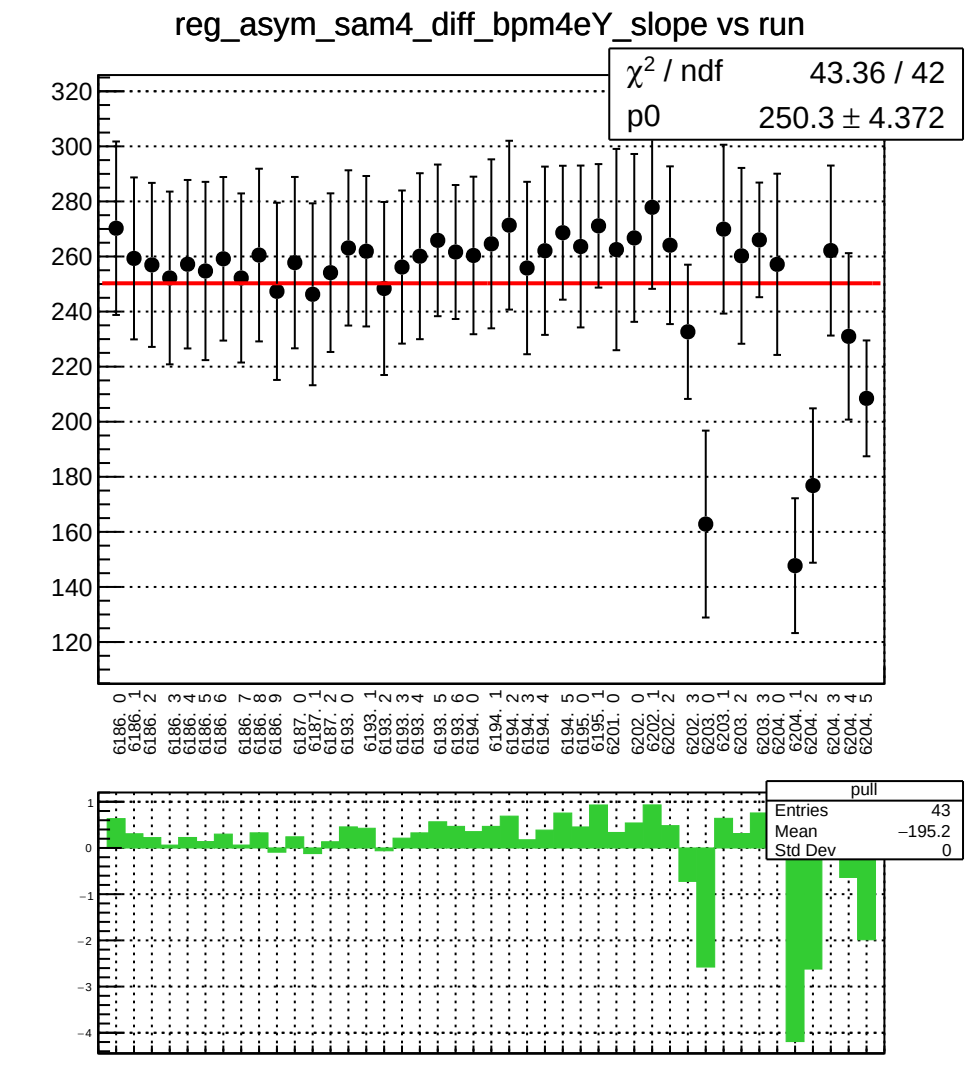

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 88.38 / 42
p0 −51.71 ± 4.152
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −68.04
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6

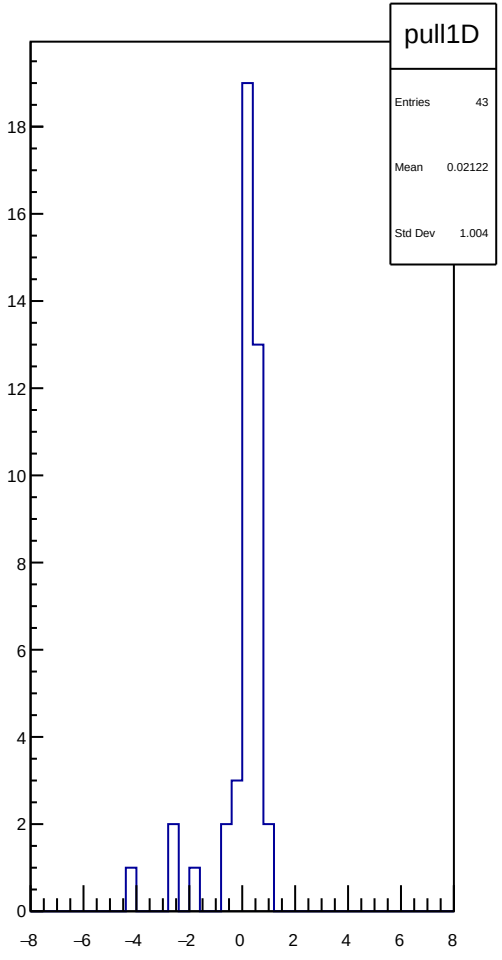

pull1D
Entries 43
Mean 0.0939
Std Dev 1.431
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

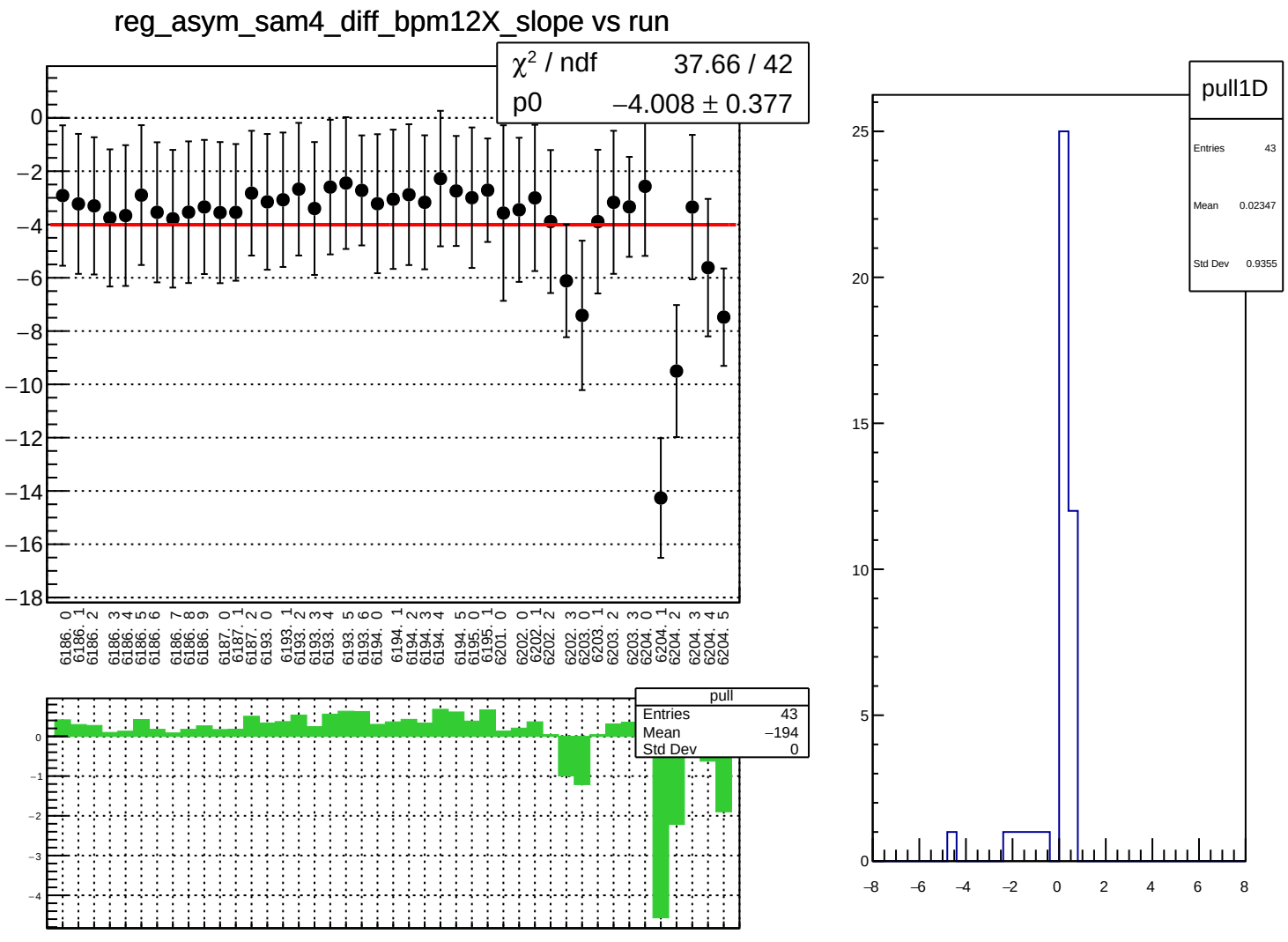

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 45.88 / 42
p0 11.85 ± 3.885
150
100
50
0
−50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −531.5
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 43
Mean −0.009685
Std Dev 1.033
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

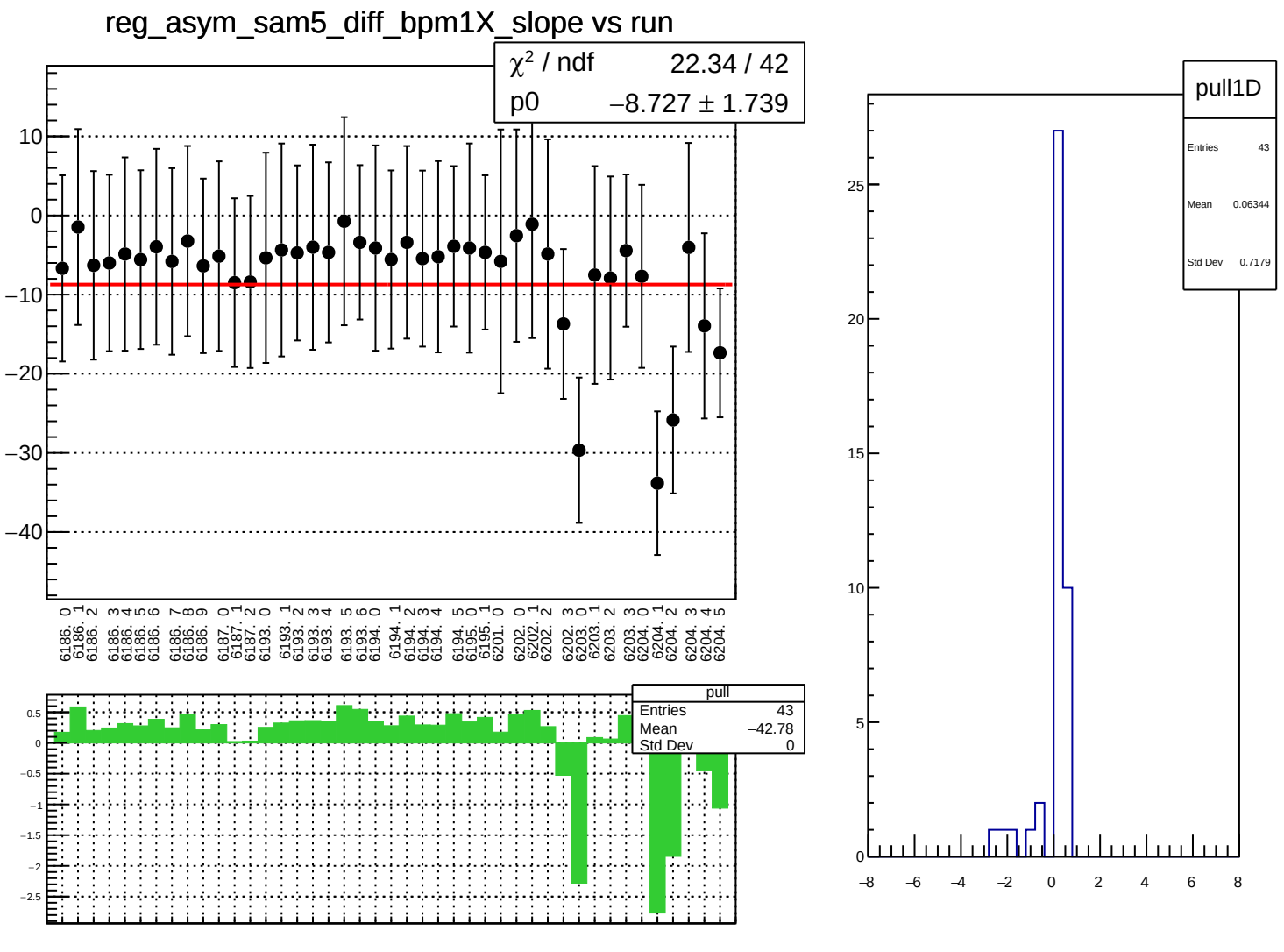

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 78.21 / 42
p0 −149.3 ± 4.533
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −62.02
Std Dev 0
6
5
4
3
2
1
0
−1

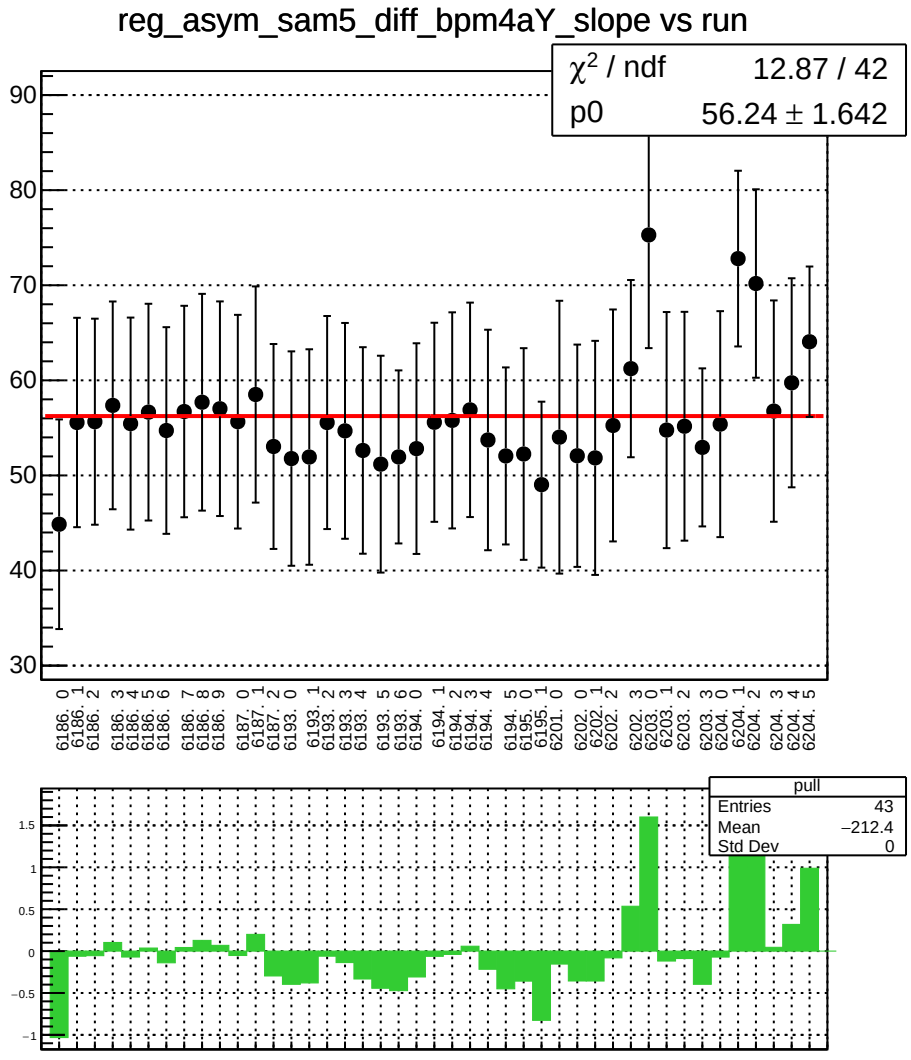

pull1D
Entries 43
Mean −0.09183
Std Dev 1.346
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

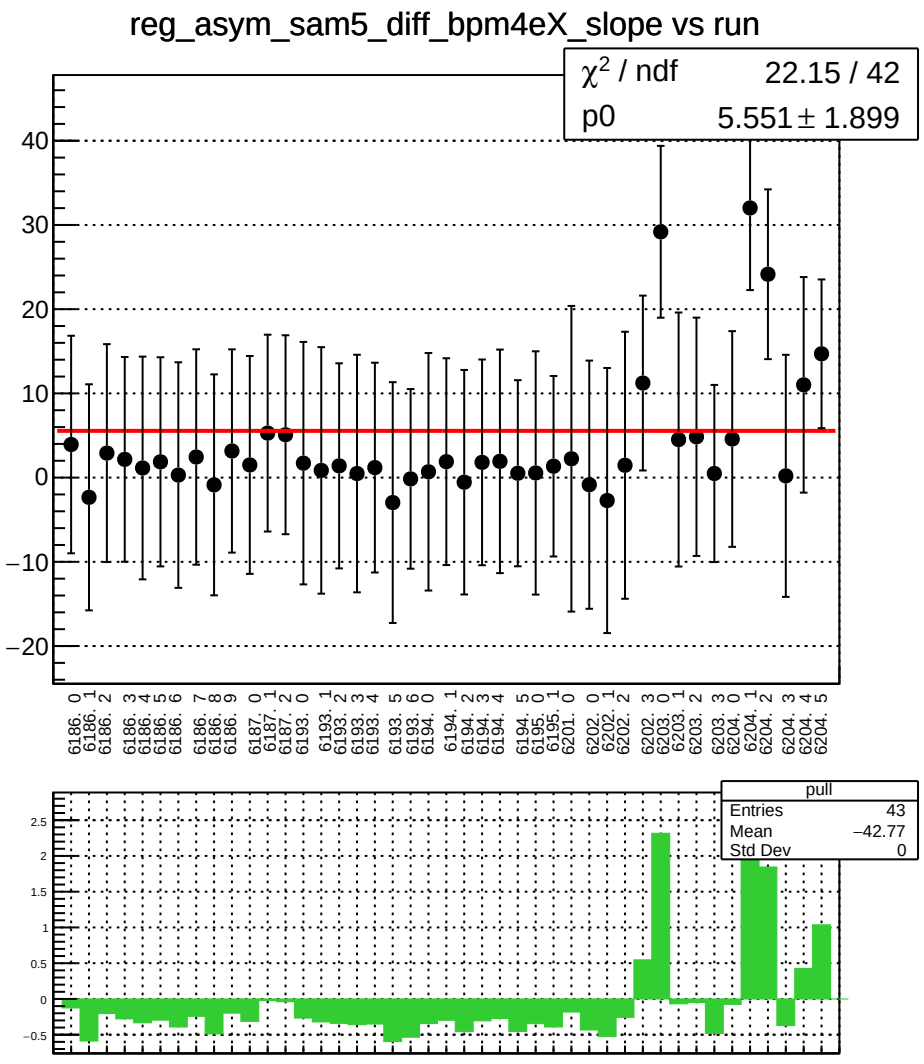

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 43.36 / 42
p0 250.3 ± 4.372
pull
Entries 43
Mean −195.2
Std Dev 0

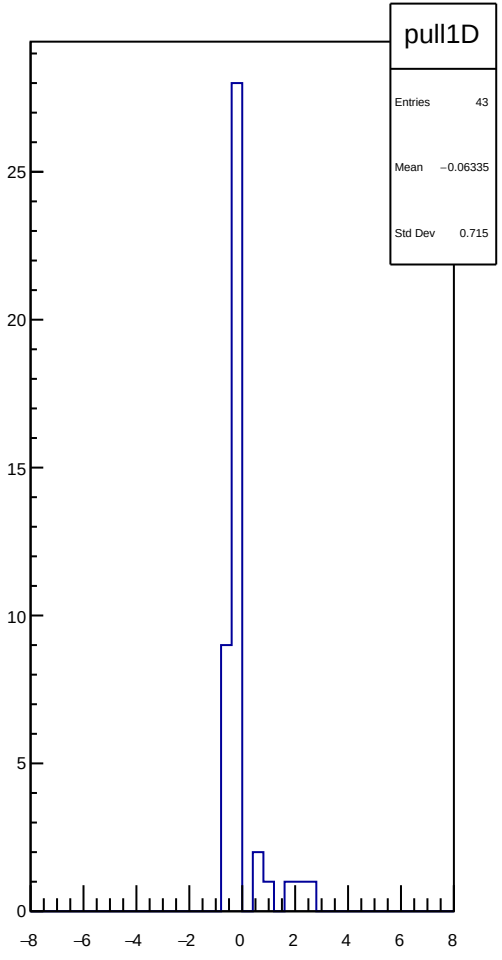

pull1D
Entries 43
Mean 0.02122
Std Dev 1.004

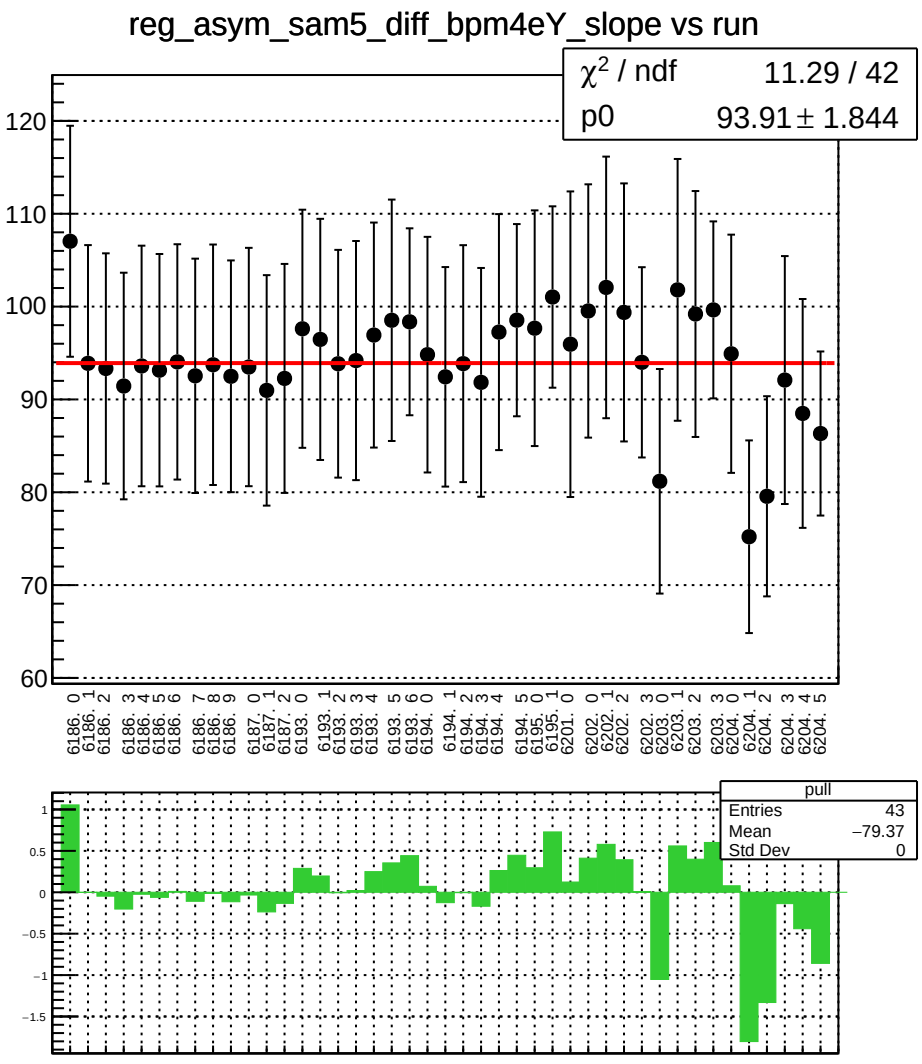

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 37.66 / 42
p0 −4.008 ± 0.377
pull
Entries 43
Mean −194
Std Dev 0
pull1D
Entries 43
Mean 0.02347
Std Dev 0.9355

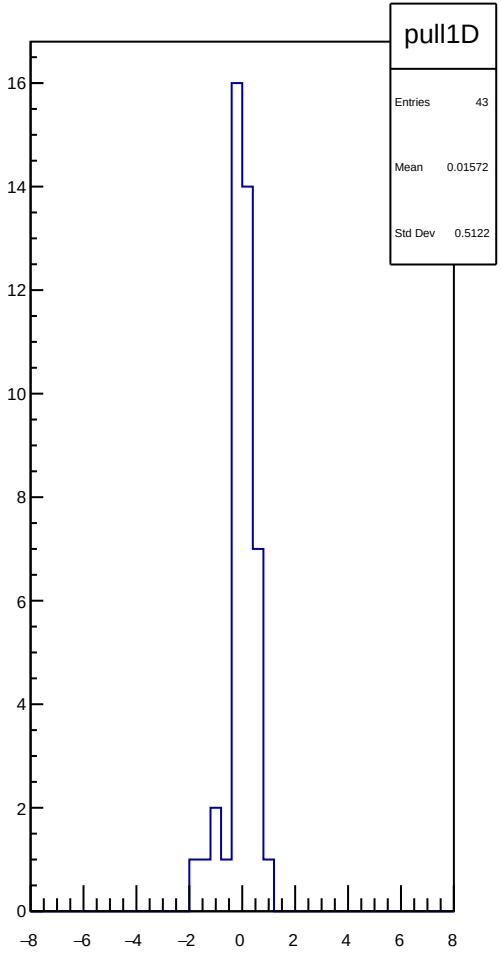

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 22.34 / 42
p0 −8.727 ± 1.739
10
0
−10
−20
−30
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −42.78
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.06344
Std Dev 0.7179
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

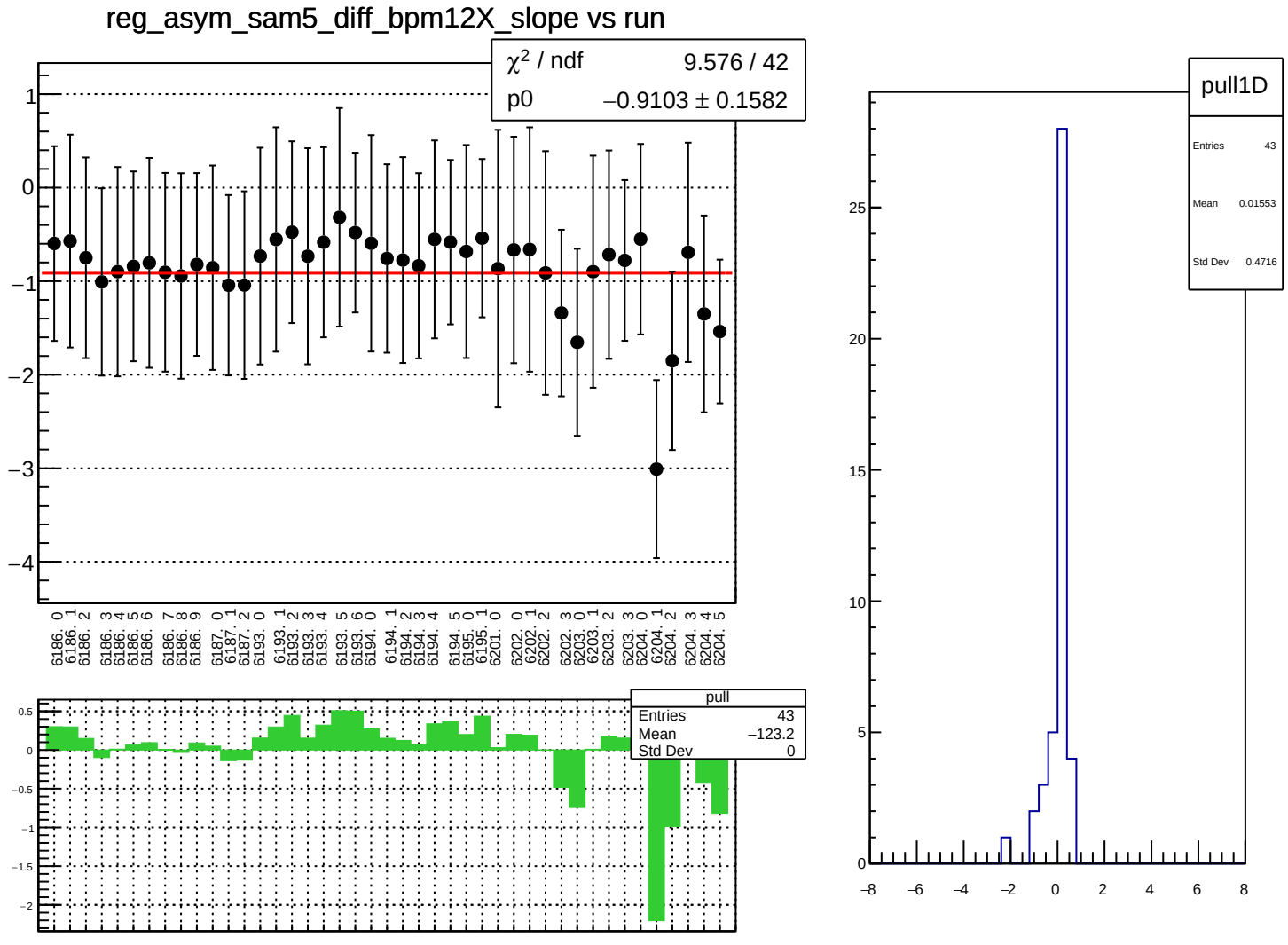

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 12.87 / 42
p0 56.24 ± 1.642
pull
Entries 43
Mean −212.4
Std Dev 0
pull1D
Entries 43
Mean −0.0115
Std Dev 0.547

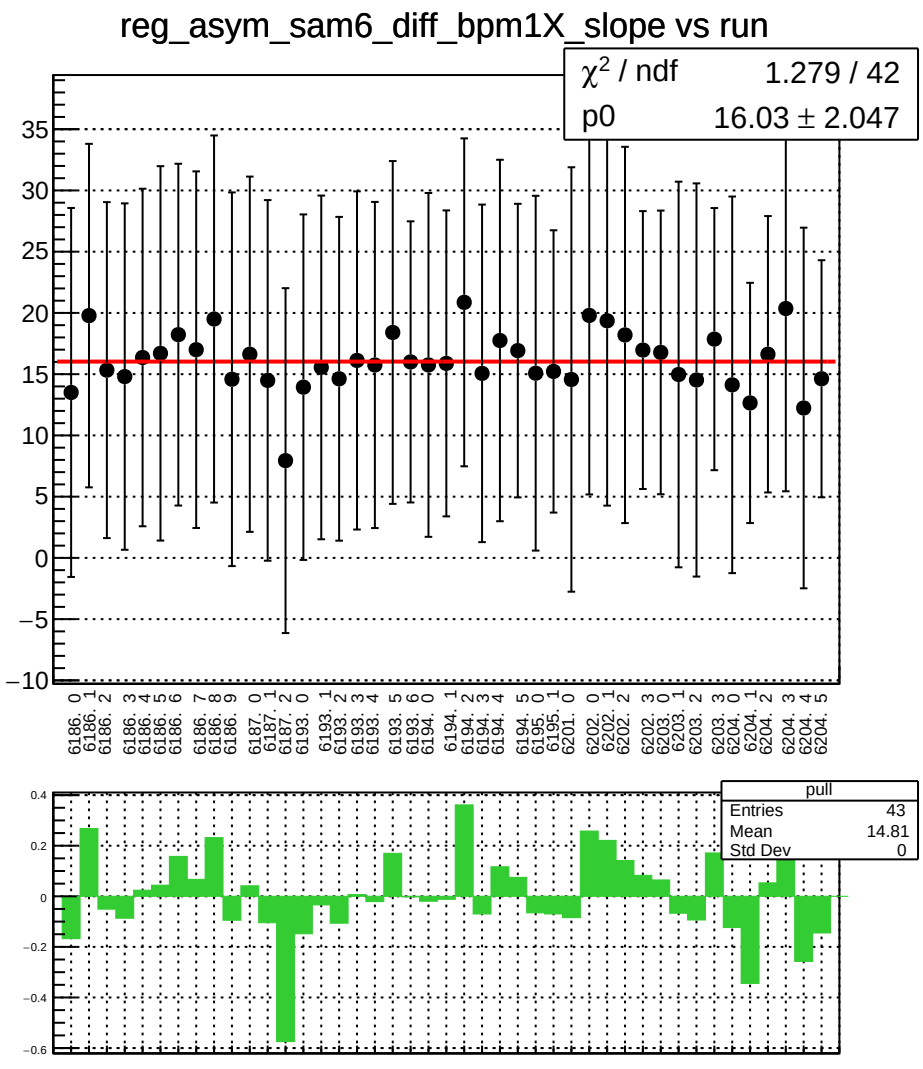

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 22.15 / 42
p0 5.551 ± 1.899
40
30
20
10
0
−10
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −42.77
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5

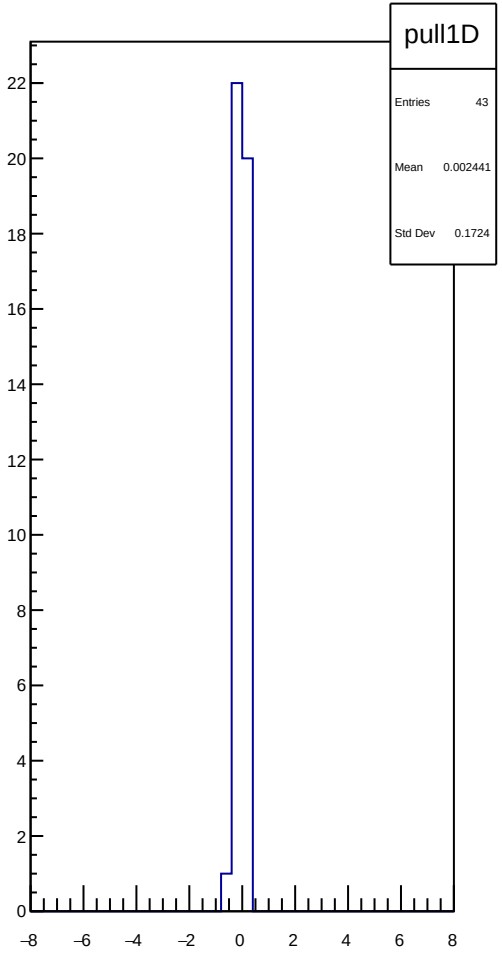

pull1D
Entries 43
Mean −0.06335
Std Dev 0.715
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

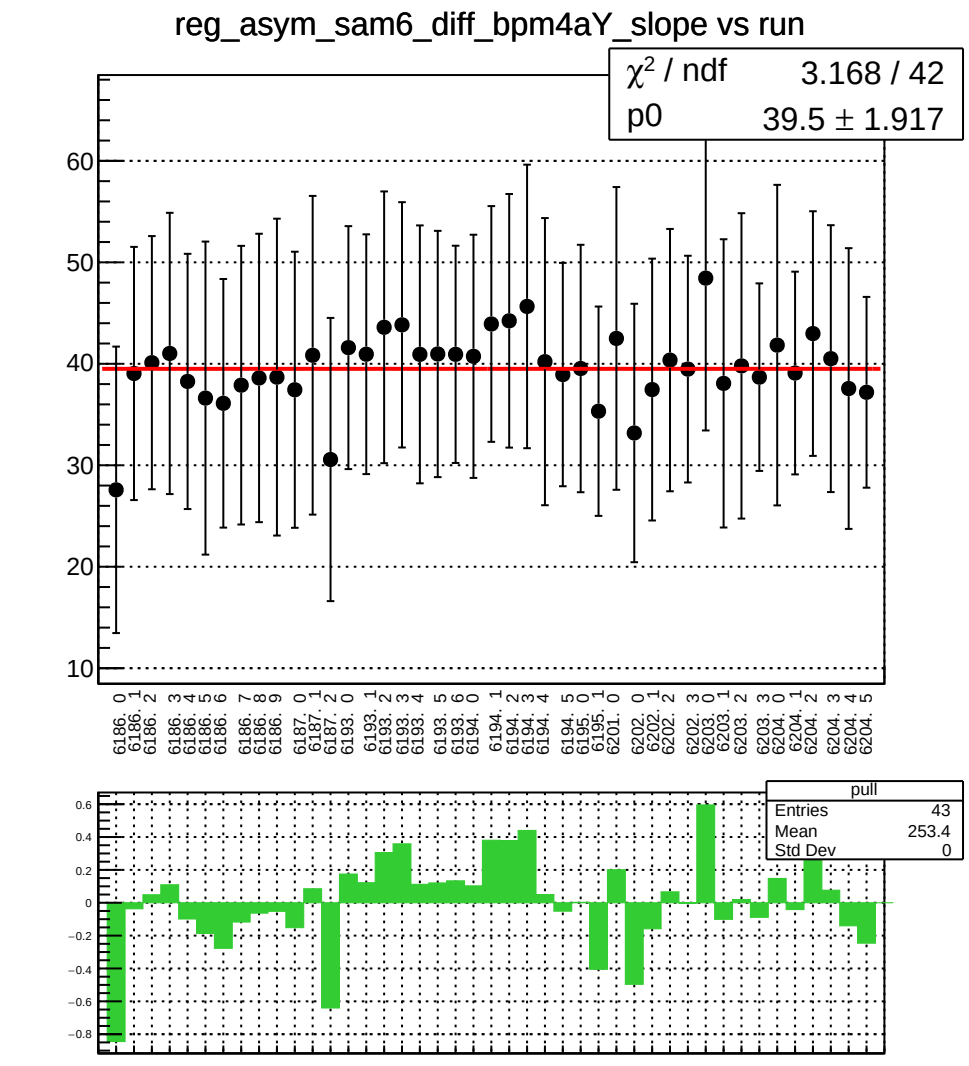

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 11.29 / 42
p0 93.91 ± 1.844
120
110
100
90
80
70
60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −79.37
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

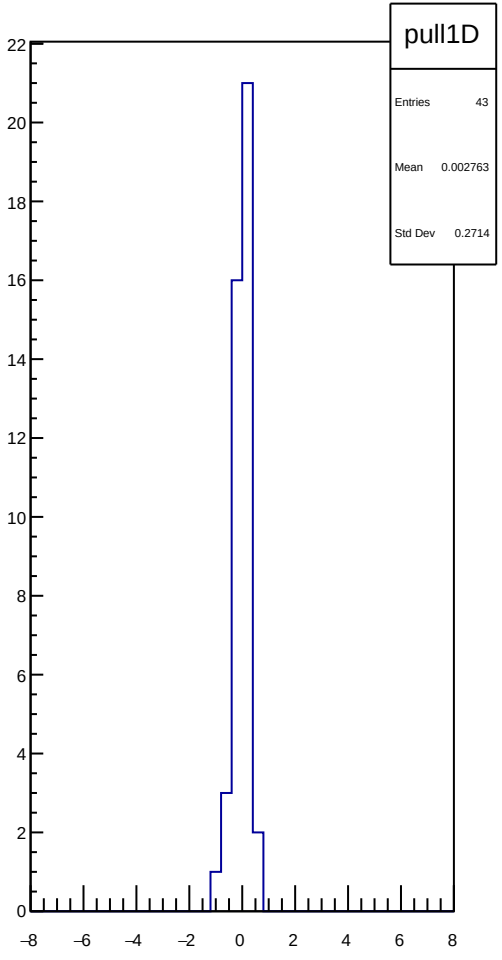

pull1D
Entries 43
Mean 0.01572
Std Dev 0.5122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

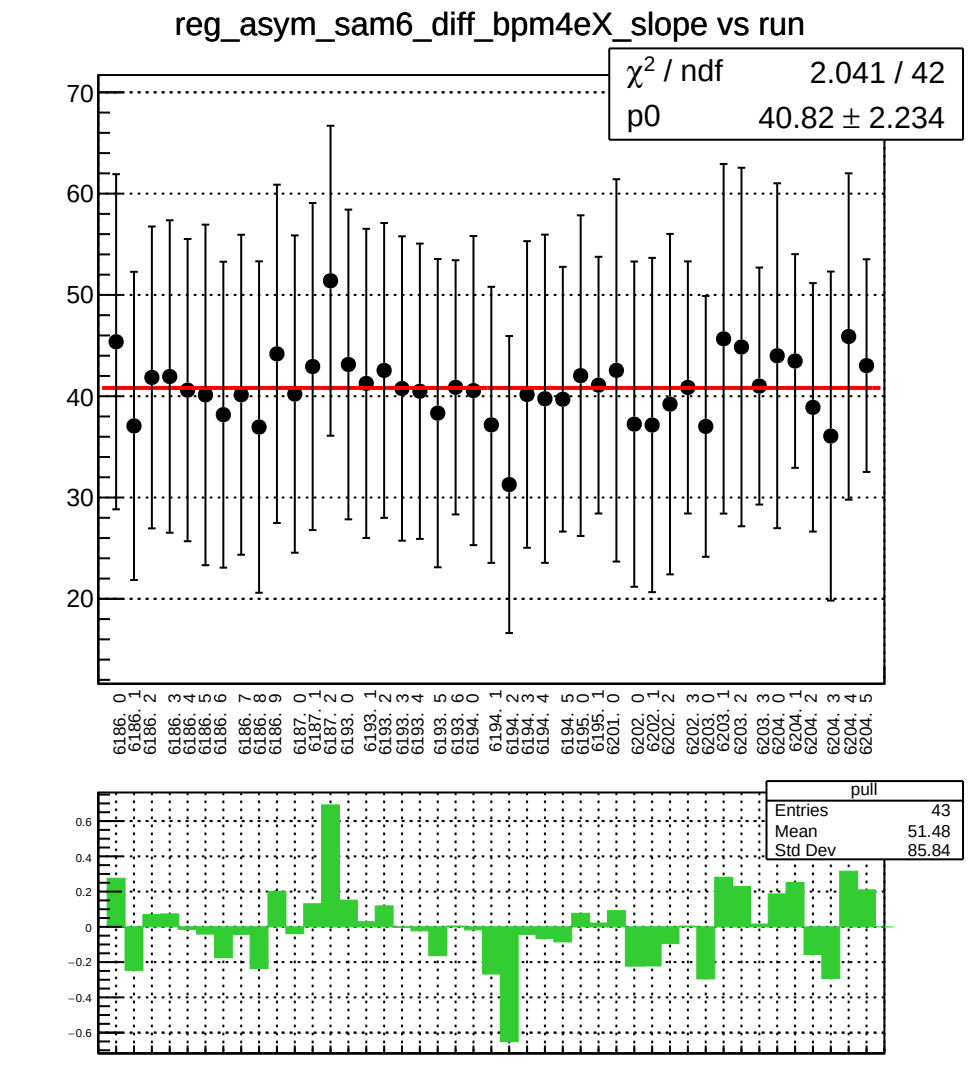

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 9.576 / 42
p0 −0.9103 ± 0.1582
pull
Entries 43
Mean −123.2
Std Dev 0
pull1D
Entries 43
Mean 0.01553
Std Dev 0.4716

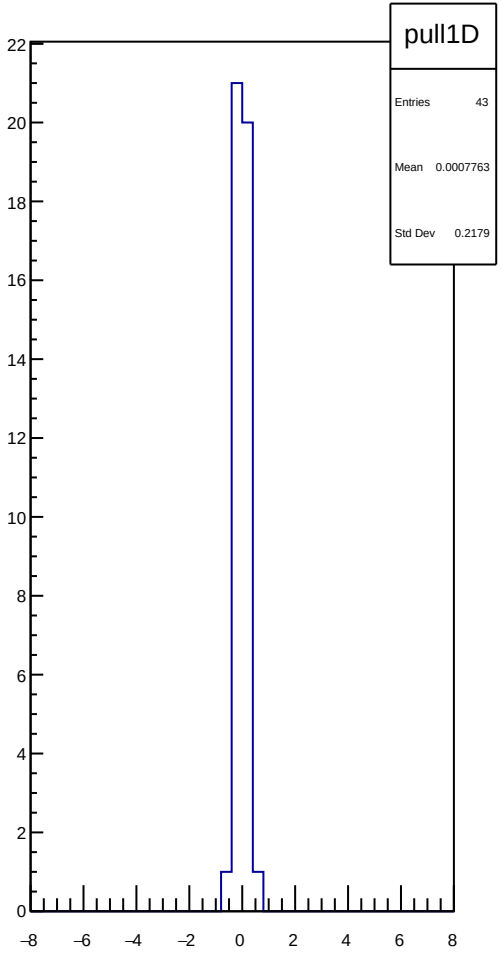

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 1.279 / 42
p0 16.03 ± 2.047
pull
Entries 43
Mean 14.81
Std Dev 0

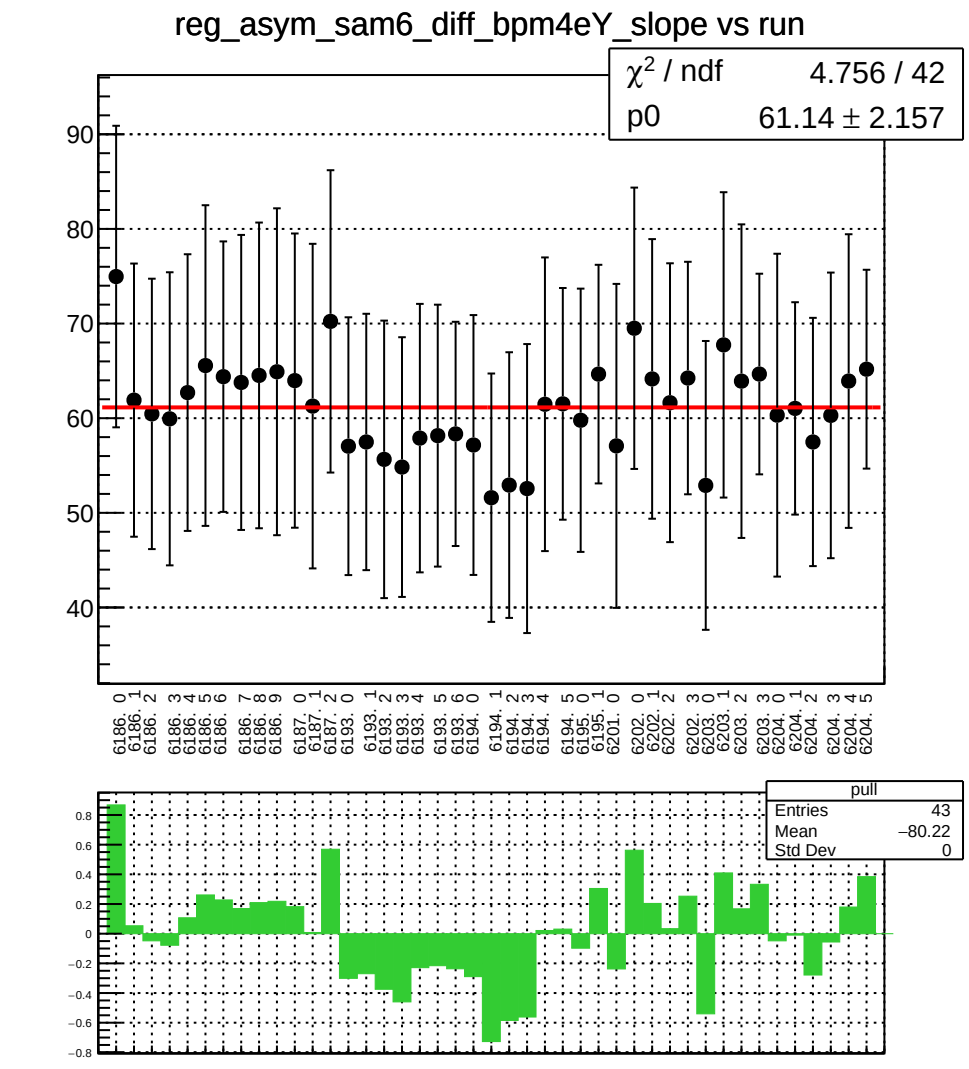

pull1D
Entries 43
Mean 0.002441
Std Dev 0.1724

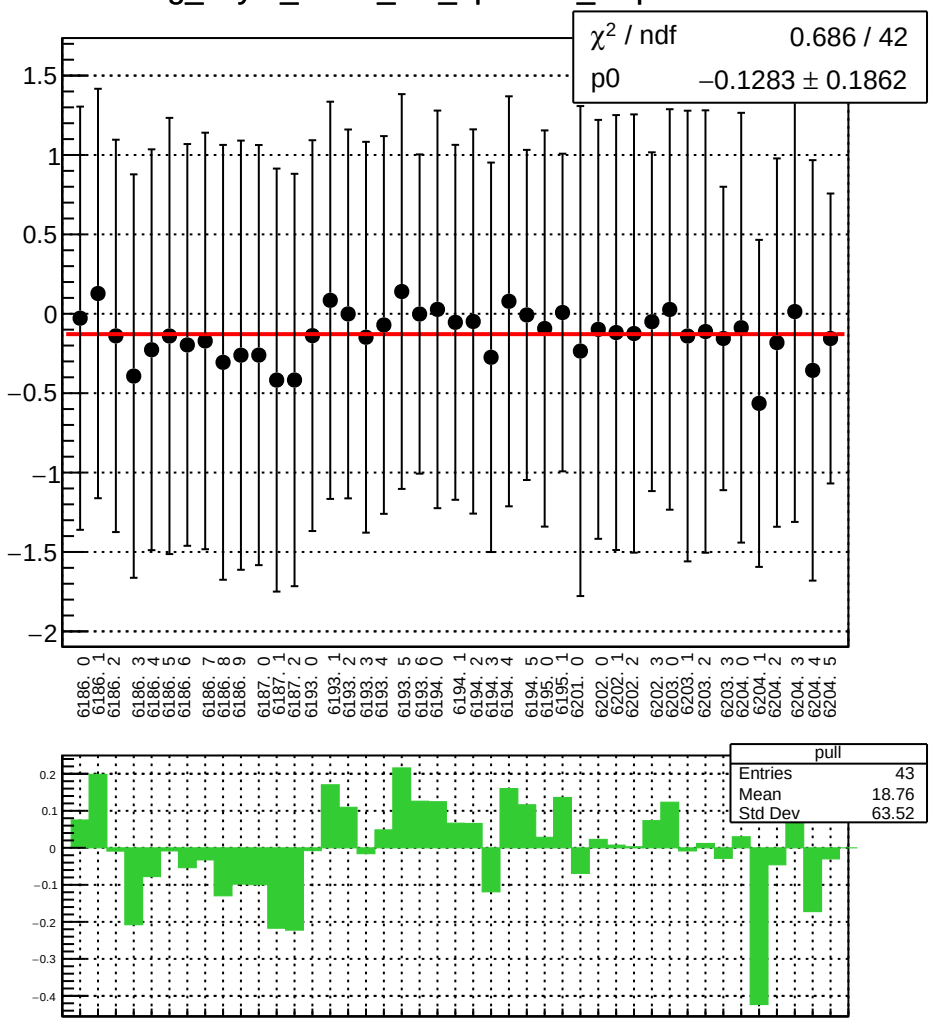

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 3.168 / 42
p0 39.5 ± 1.917
pull
Entries 43
Mean 253.4
Std Dev 0

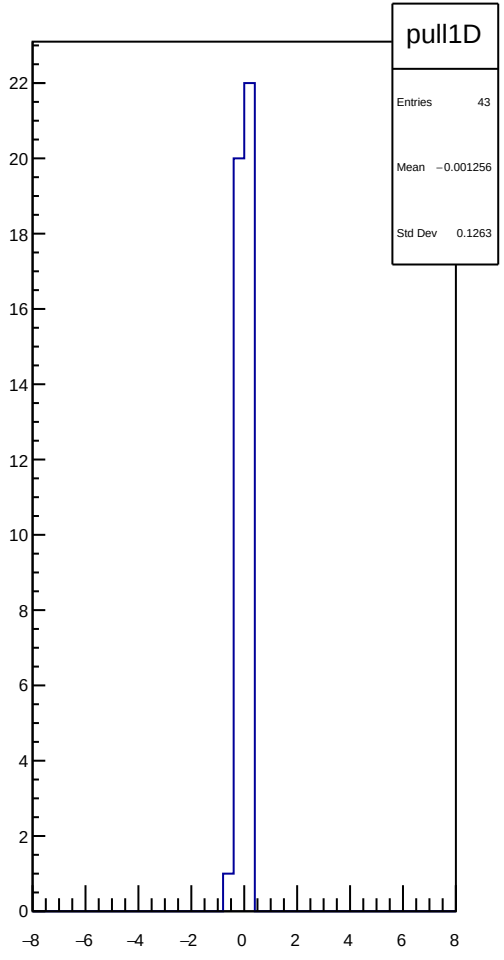

pull1D
Entries 43
Mean 0.002763
Std Dev 0.2714

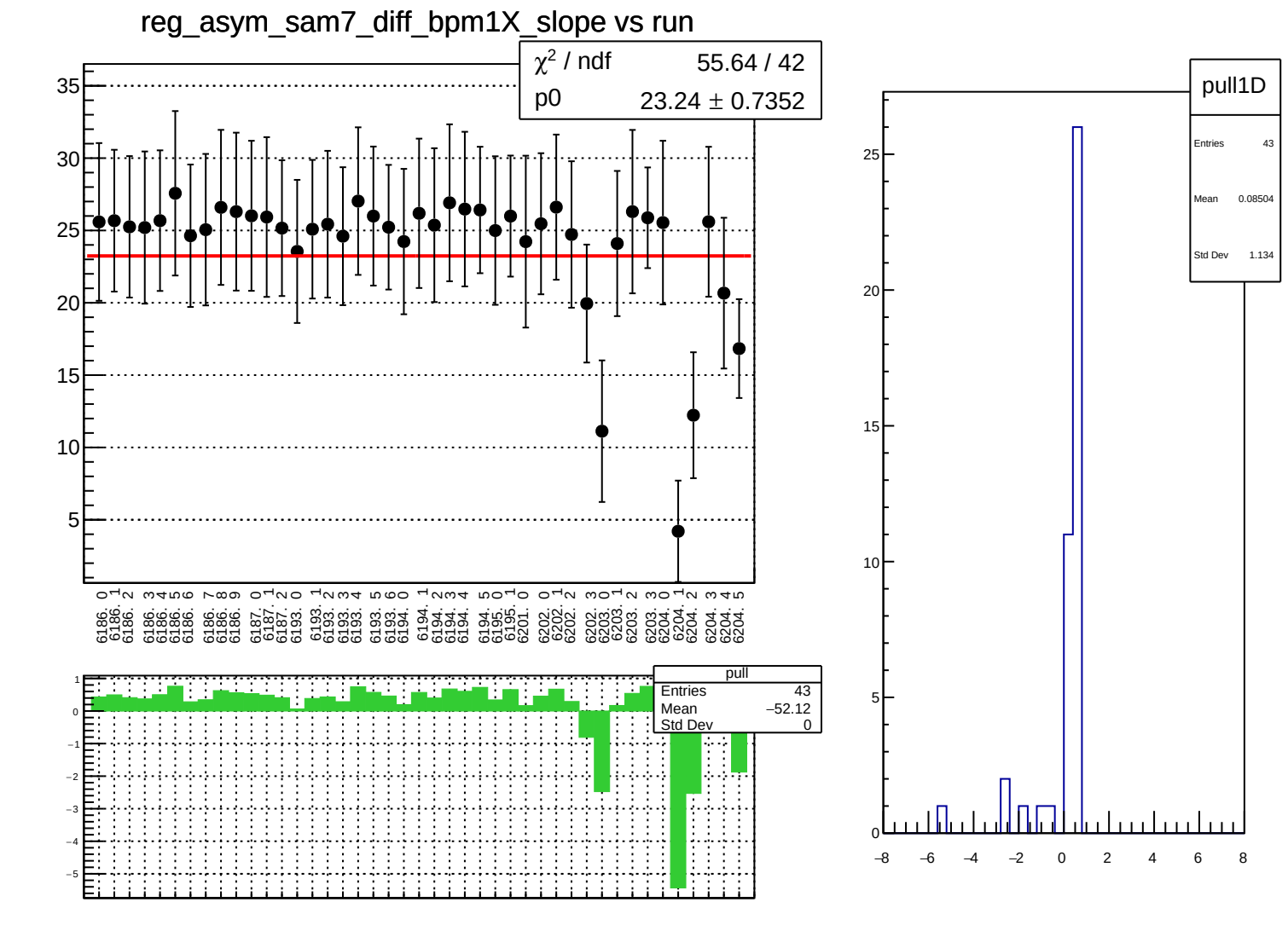

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 2.041 / 42
p0 40.82 ± 2.234
70
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 51.48
Std Dev 85.84
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

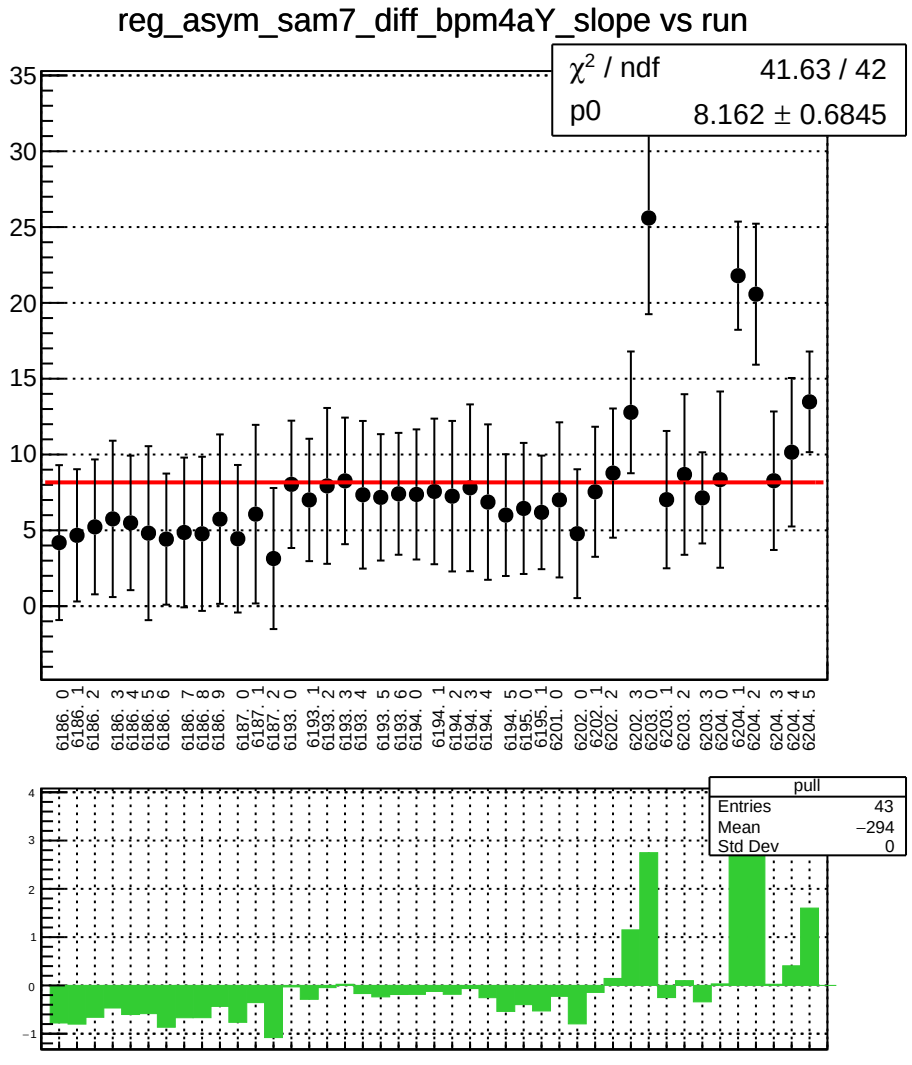

pull1D
Entries 43
Mean 0.0007763
Std Dev 0.2179
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

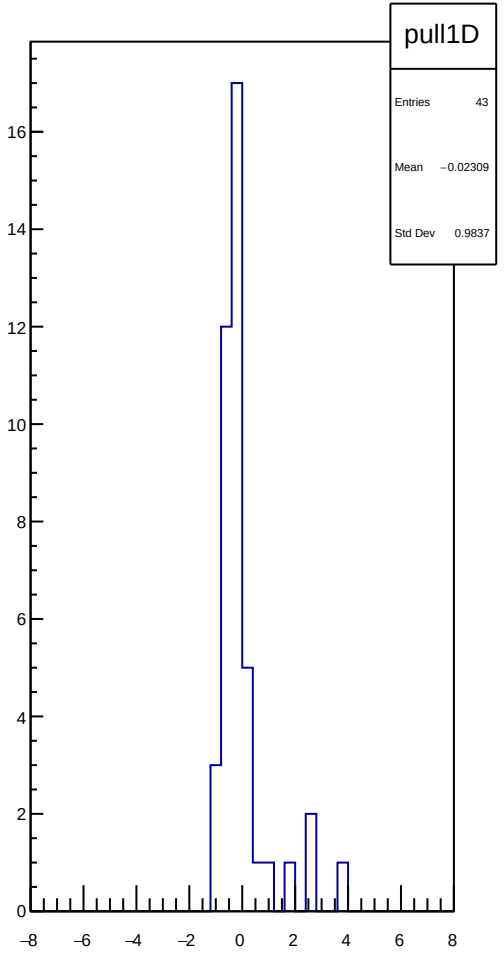

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 4.756 / 42
p0 61.14 ± 2.157
90
80
70
60
50
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −80.22
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean 0.002674
Std Dev 0.3326
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

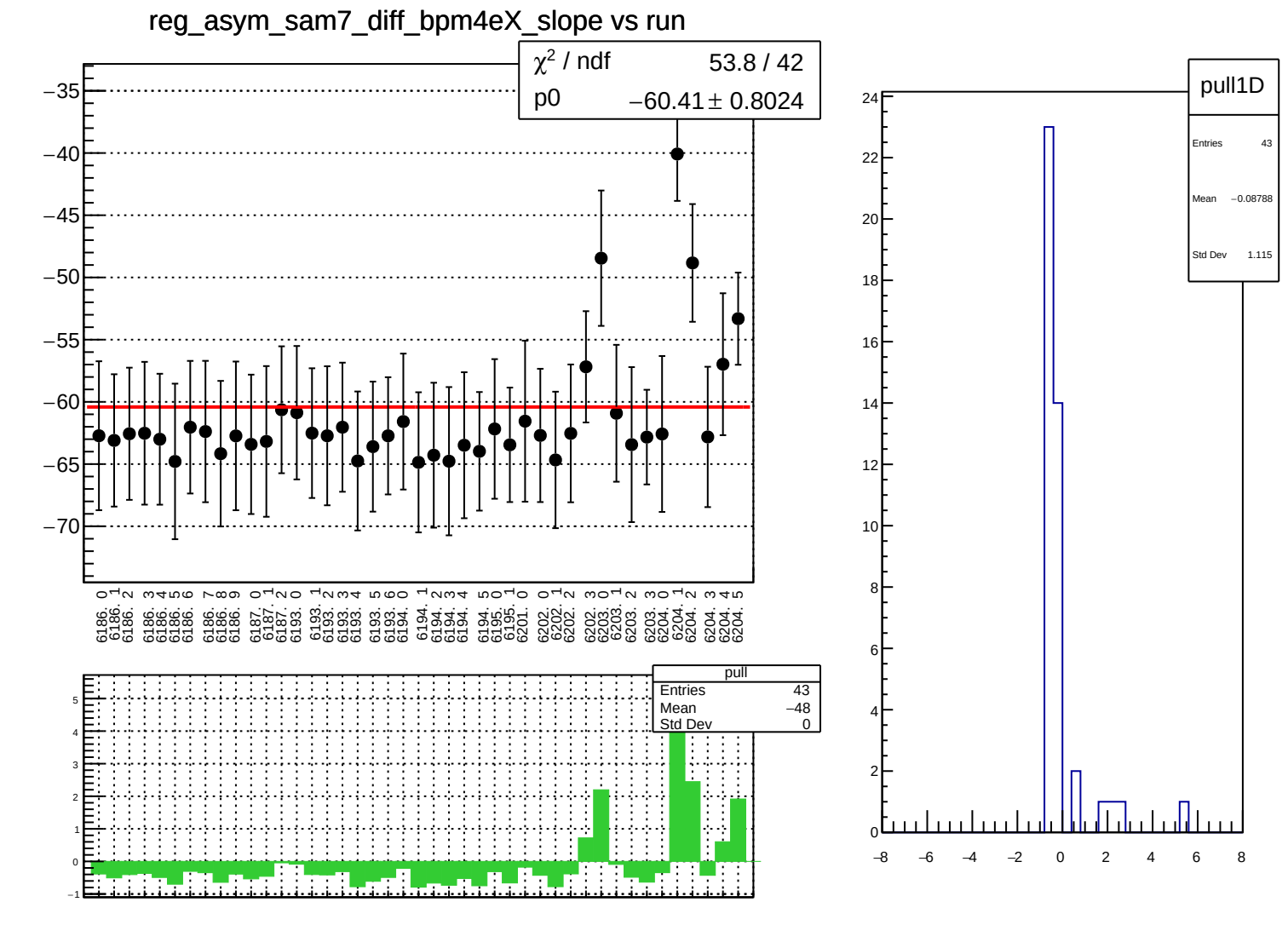

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 0.686 / 42
p0 −0.1283 ± 0.1862
pull
Entries 43
Mean 18.76
Std Dev 63.52

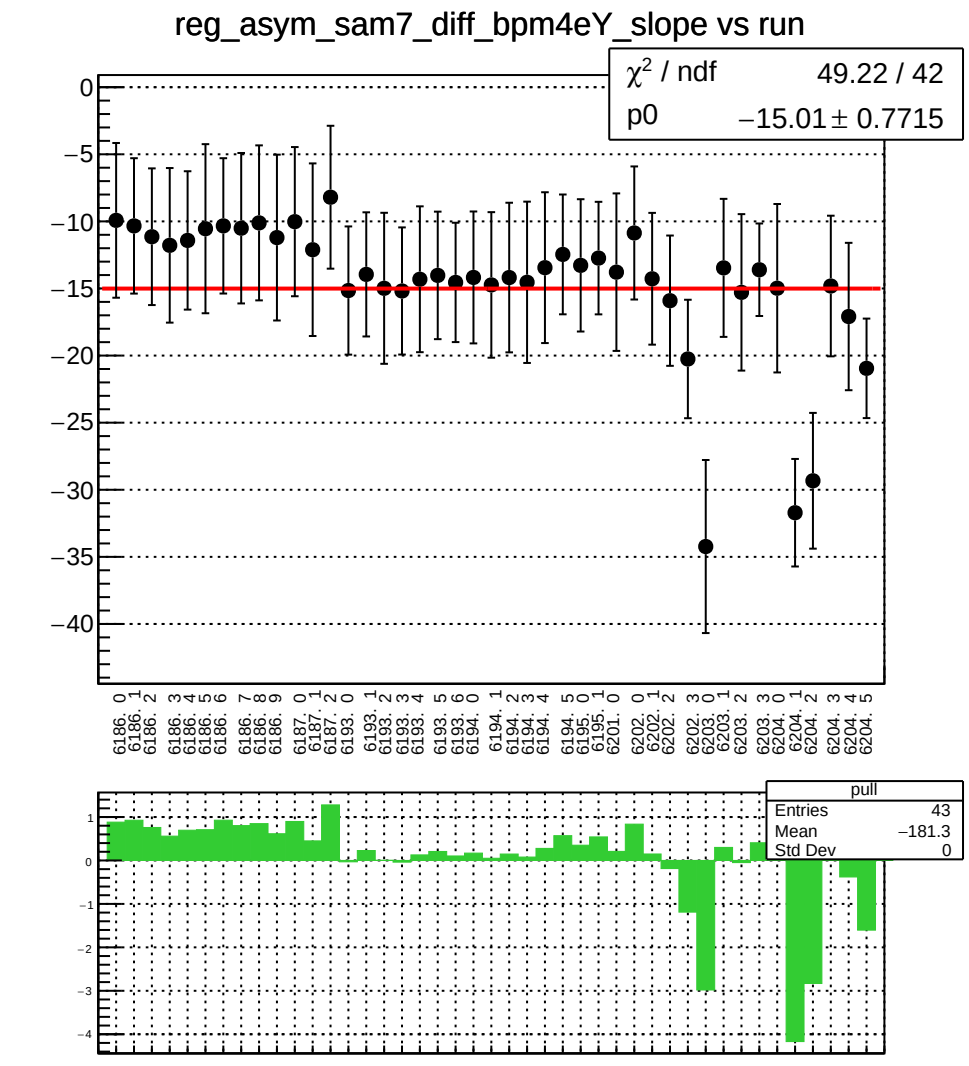

pull1D
Entries 43
Mean −0.001256
Std Dev 0.1263

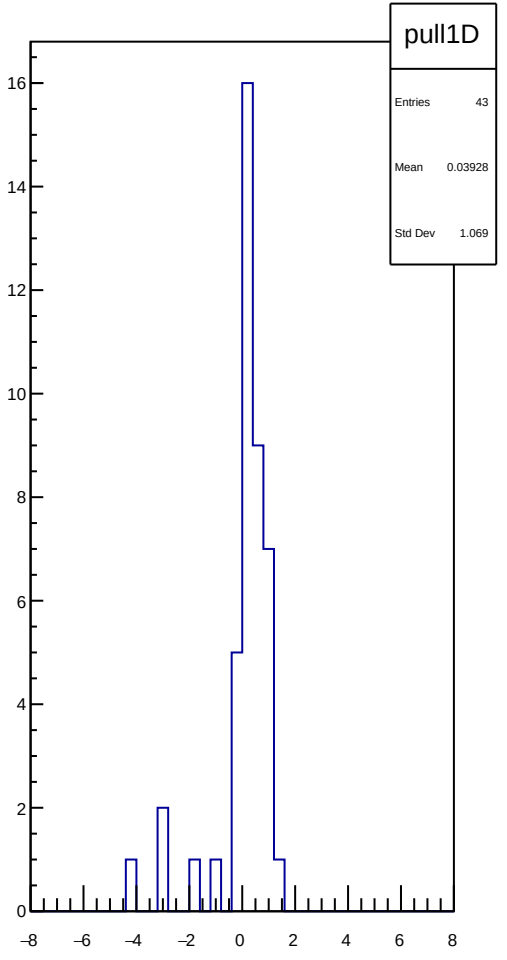

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 55.64 / 42
p0 23.24 ± 0.7352
pull
Entries 43
Mean −52.12
Std Dev 0
pull1D
Entries 43
Mean 0.08504
Std Dev 1.134

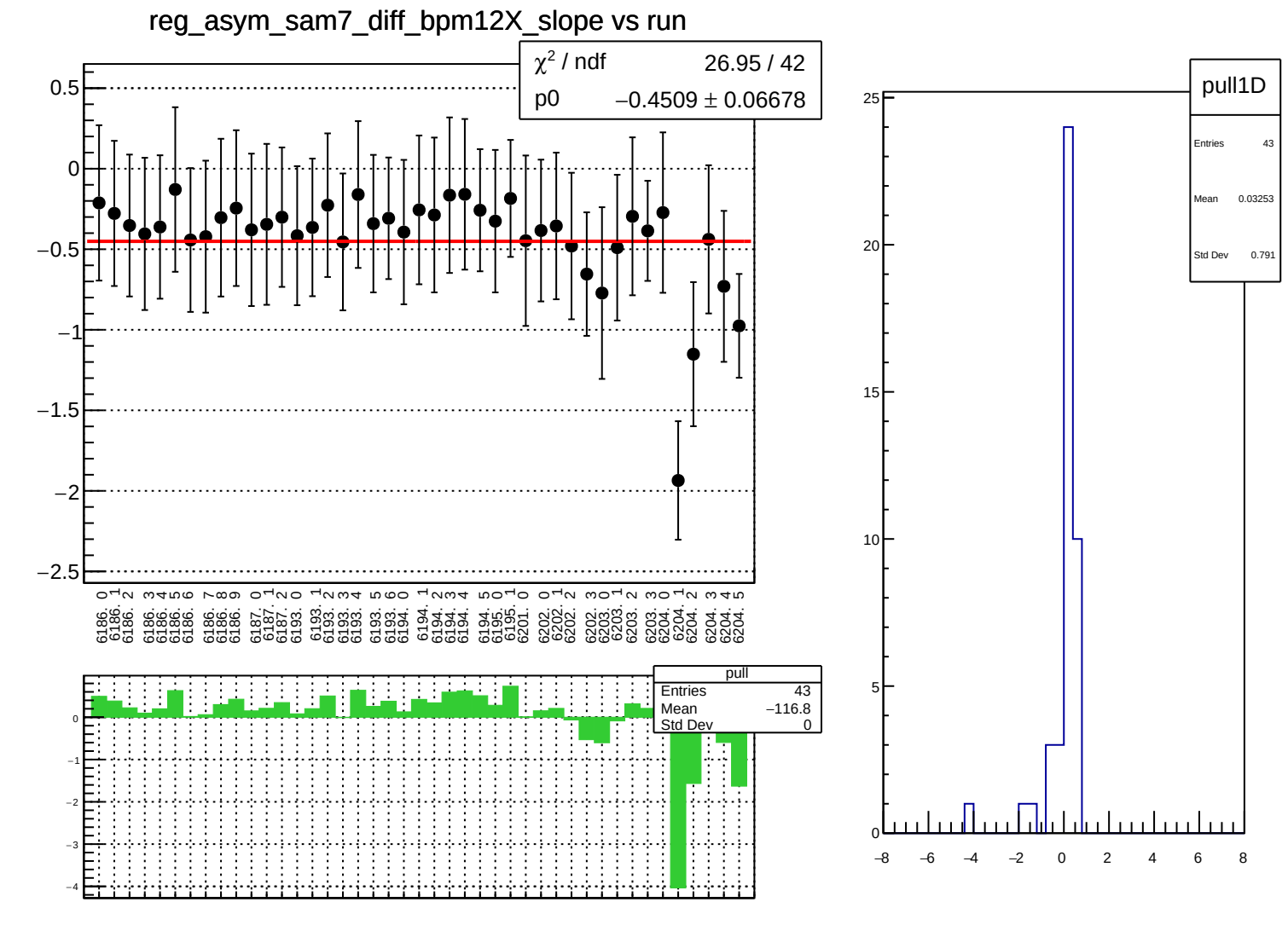

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 41.63 / 42
p0 8.162 ± 0.6845
pull
Entries 43
Mean −294
Std Dev 0

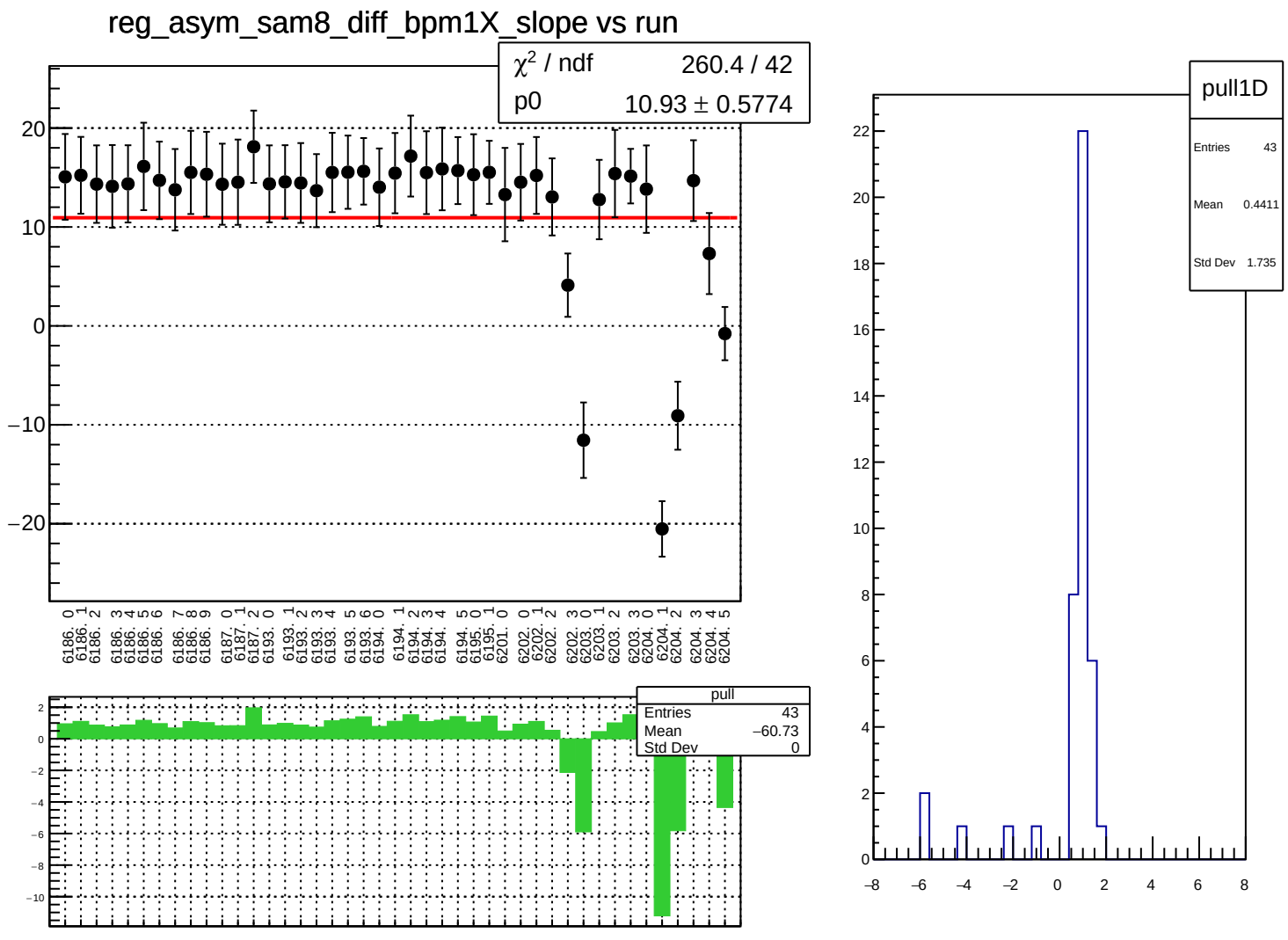

pull1D
Entries 43
Mean −0.02309
Std Dev 0.9837

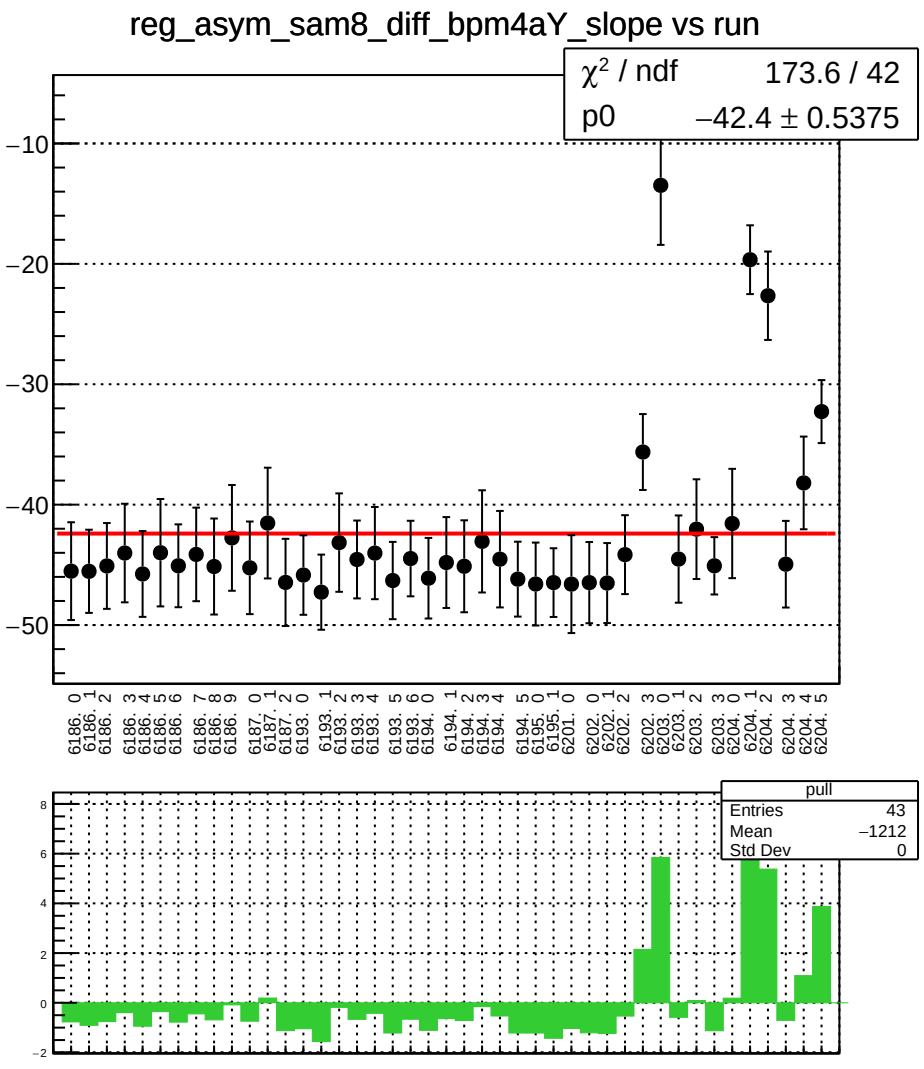

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 53.8 / 42
p0 −60.41 ± 0.8024
pull
Entries 43
Mean −48
Std Dev 0
pull1D
Entries 43
Mean −0.08788
Std Dev 1.115

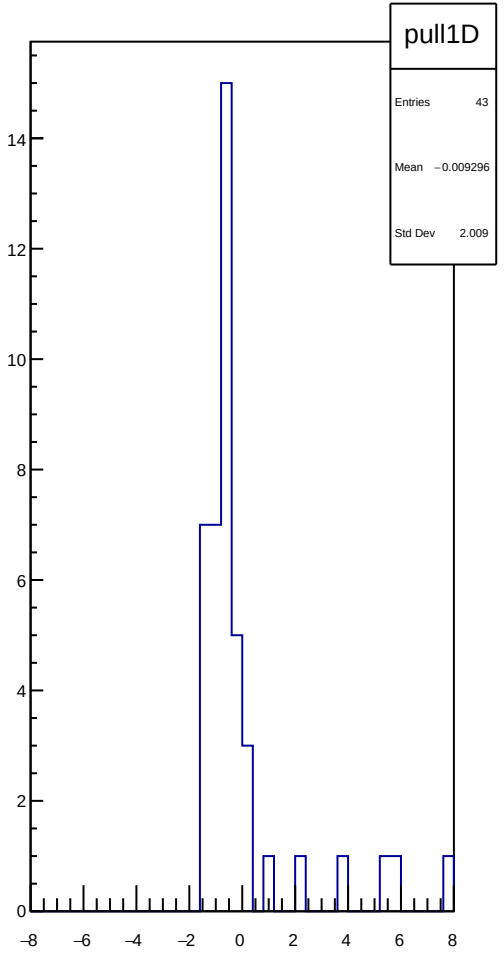

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 49.22 / 42
p0 −15.01 ± 0.7715
pull
Entries 43
Mean −181.3
Std Dev 0

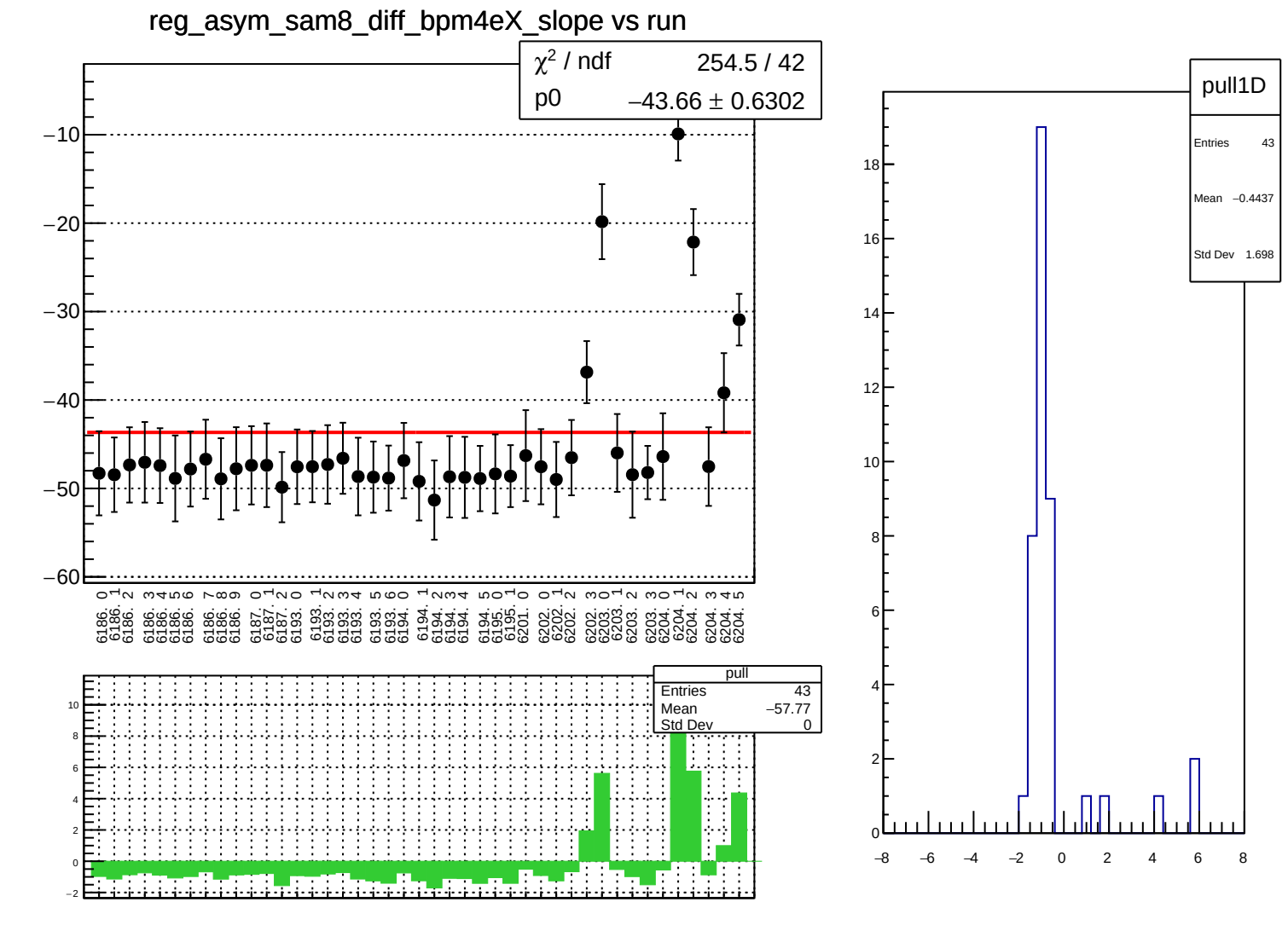

pull1D
Entries 43
Mean 0.03928
Std Dev 1.069

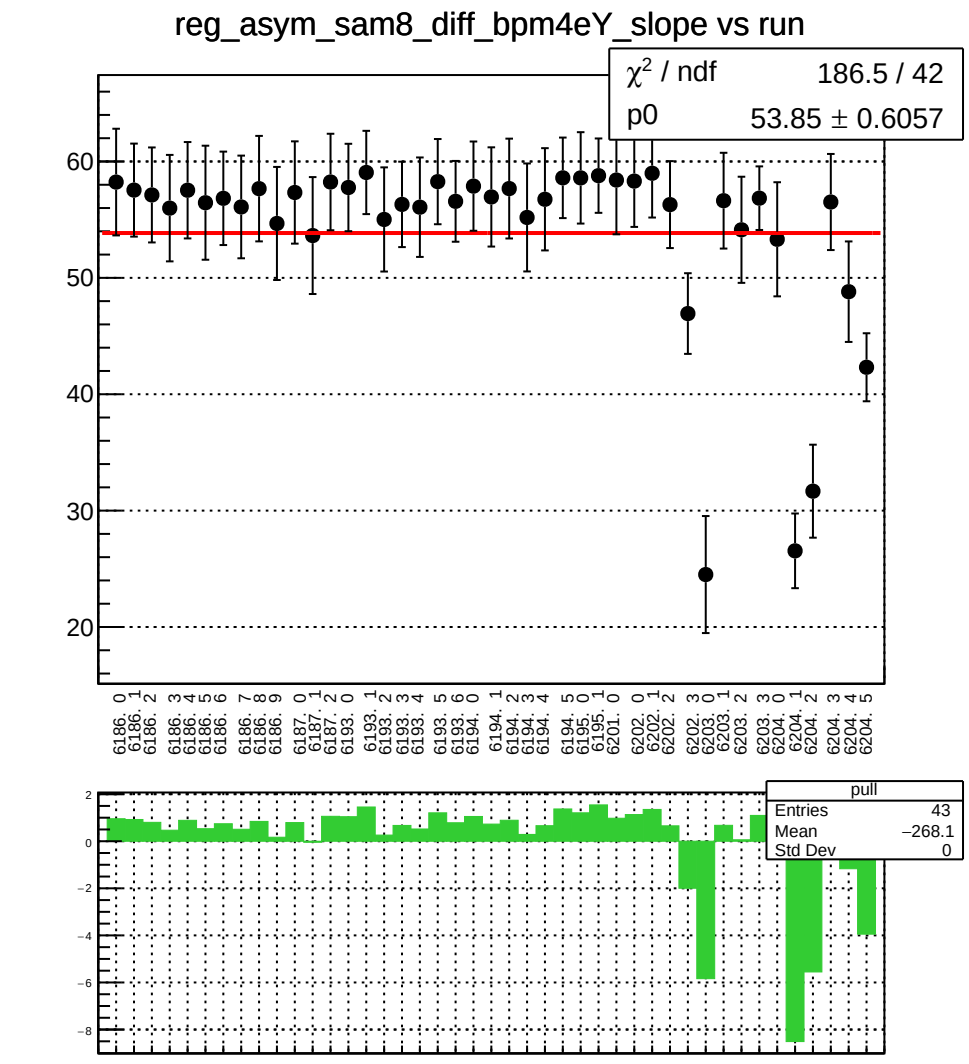

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 26.95 / 42
p0 −0.4509 ± 0.06678
0.5
0
−0.5
−1
−1.5
−2
−2.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −116.8
Std Dev 0
0
−1
−2
−3
−4
pull1D
Entries 43
Mean 0.03253
Std Dev 0.791
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

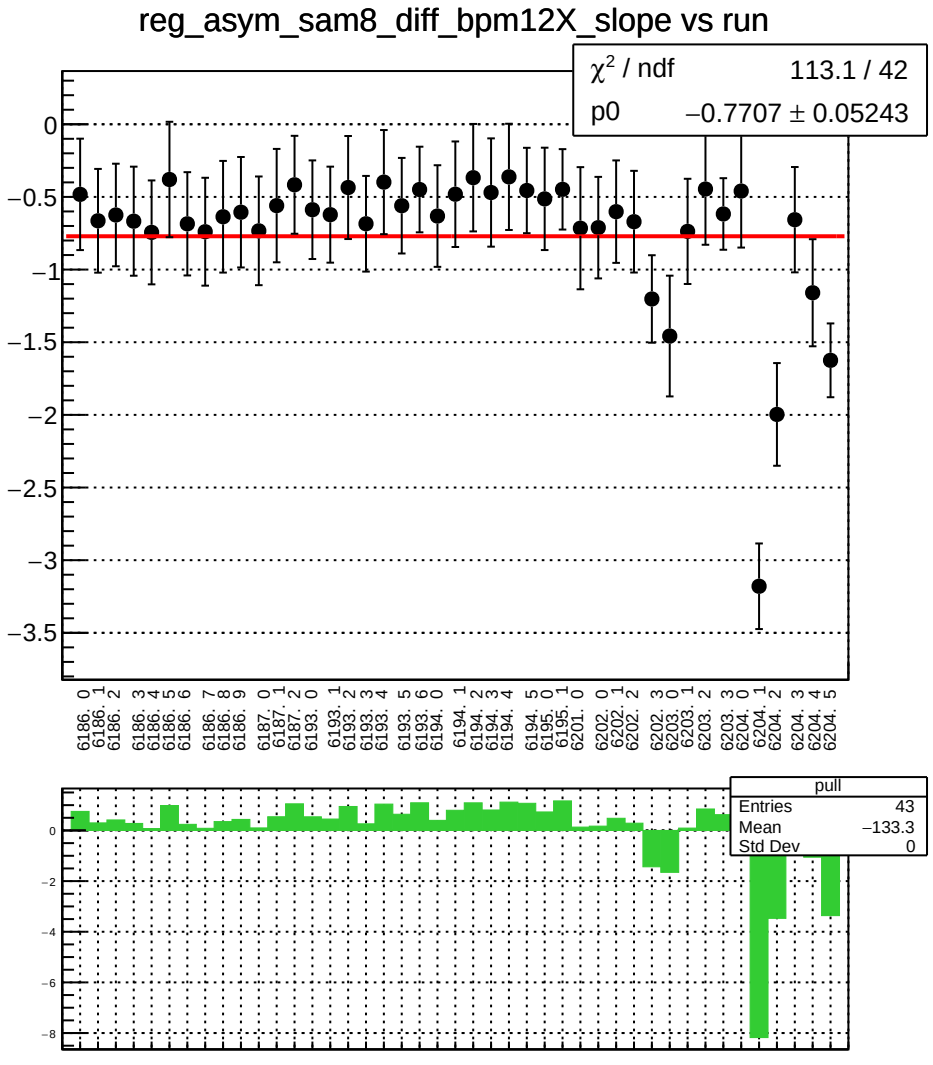

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 260.4 / 42
p0 10.93 ± 0.5774
pull
Entries 43
Mean −60.73
Std Dev 0
pull1D
Entries 43
Mean 0.4411
Std Dev 1.735

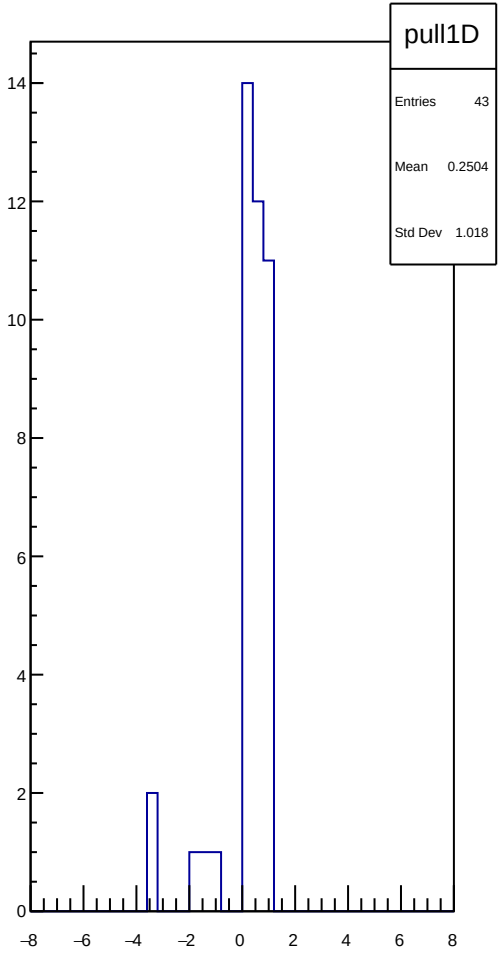

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 173.6 / 42
p0 −42.4 ± 0.5375
pull
Entries 43
Mean −1212
Std Dev 0

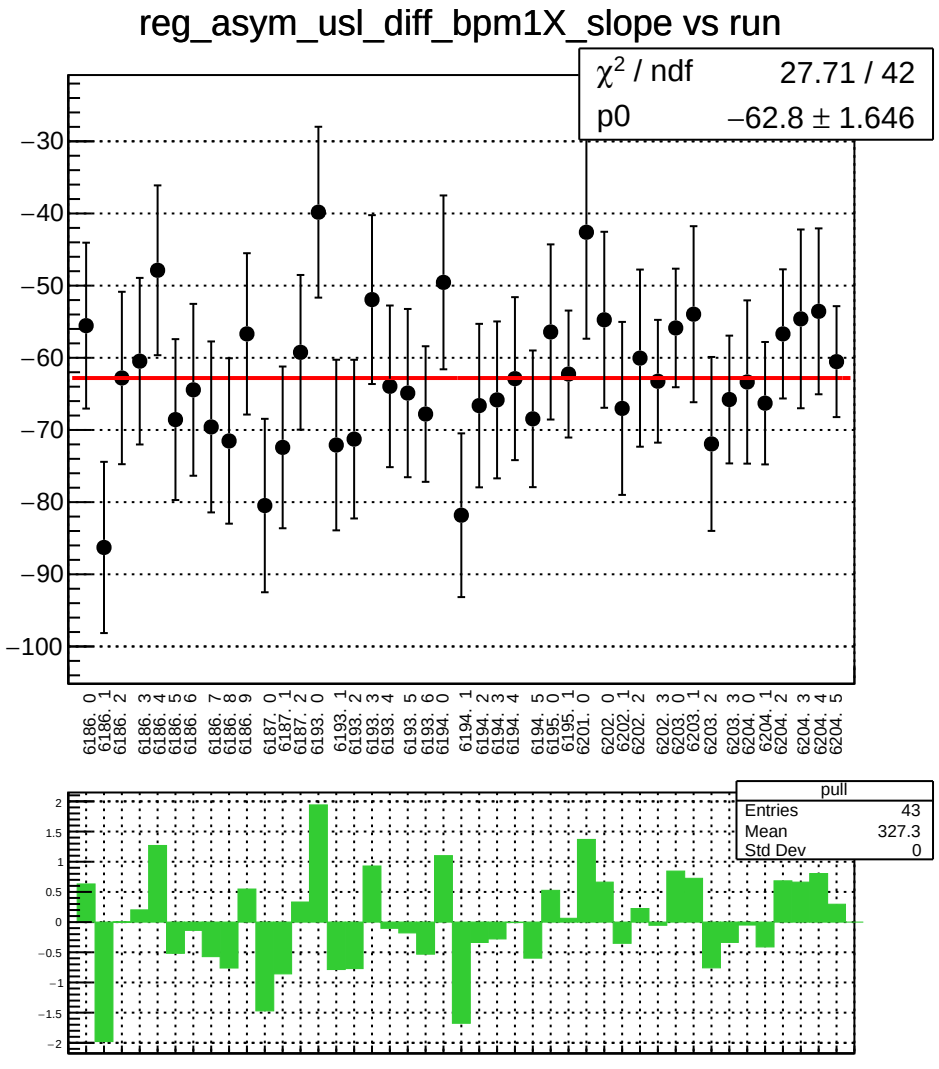

pull1D
Entries 43
Mean −0.009296
Std Dev 2.009

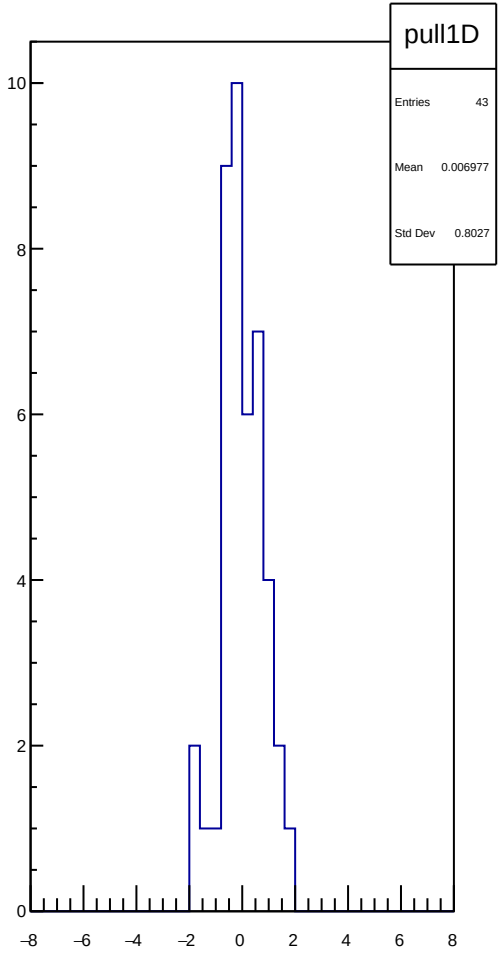

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 254.5 / 42
p0 −43.66 ± 0.6302
−10
−20
−30
−40
−50
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −57.77
Std Dev 0
10
8
6
4
2
0
−2
pull1D
Entries 43
Mean −0.4437
Std Dev 1.698
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

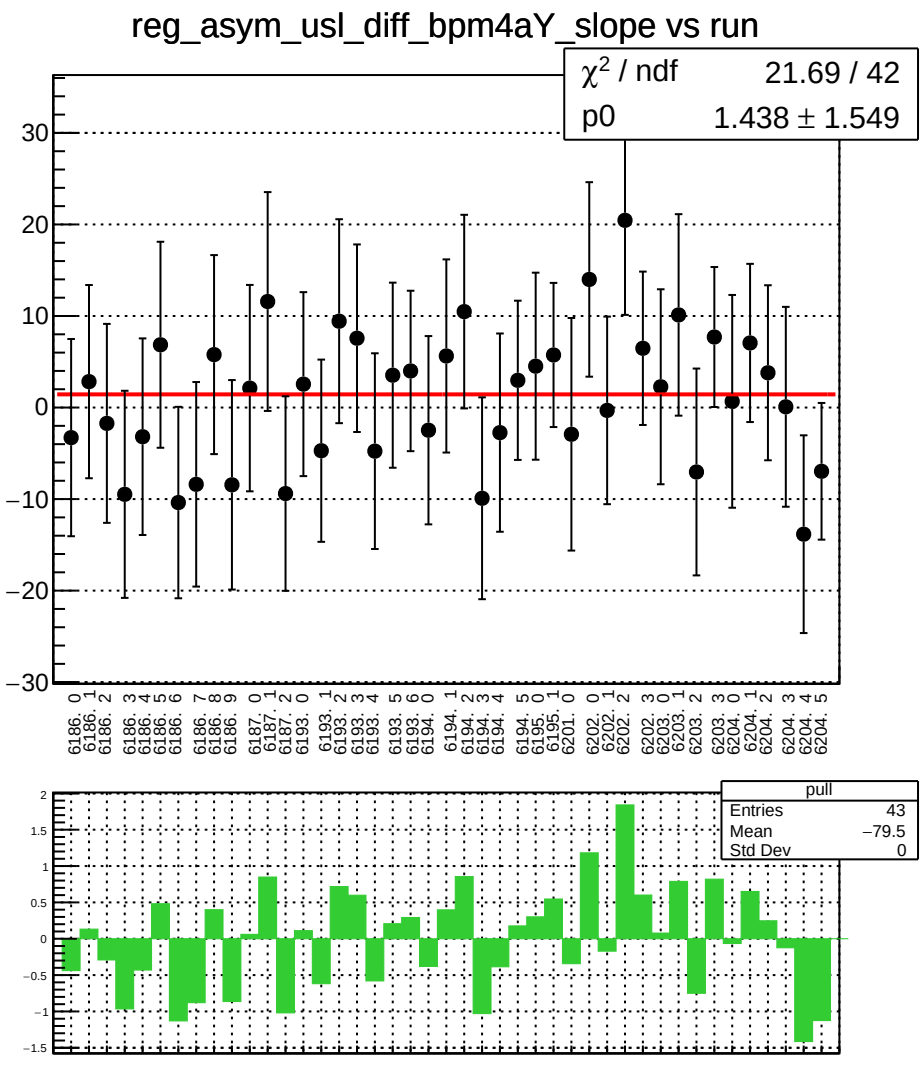

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 186.5 / 42
p0 53.85 ± 0.6057
60
50
40
30
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −268.1
Std Dev 0
2
0
−2
−4
−6
−8
pull1D
Entries 43
Mean 0.2449
Std Dev 1.63
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

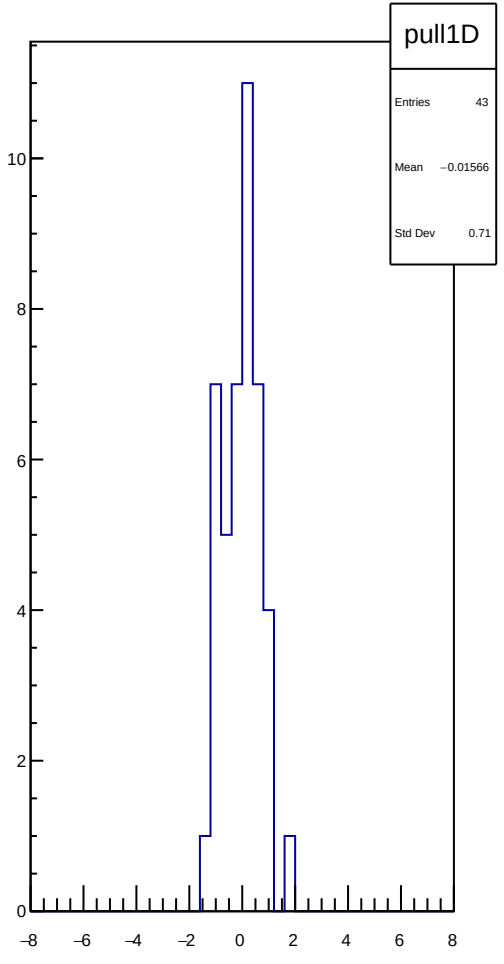

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 113.1 / 42
p0 −0.7707 ± 0.05243
pull
Entries 43
Mean −133.3
Std Dev 0

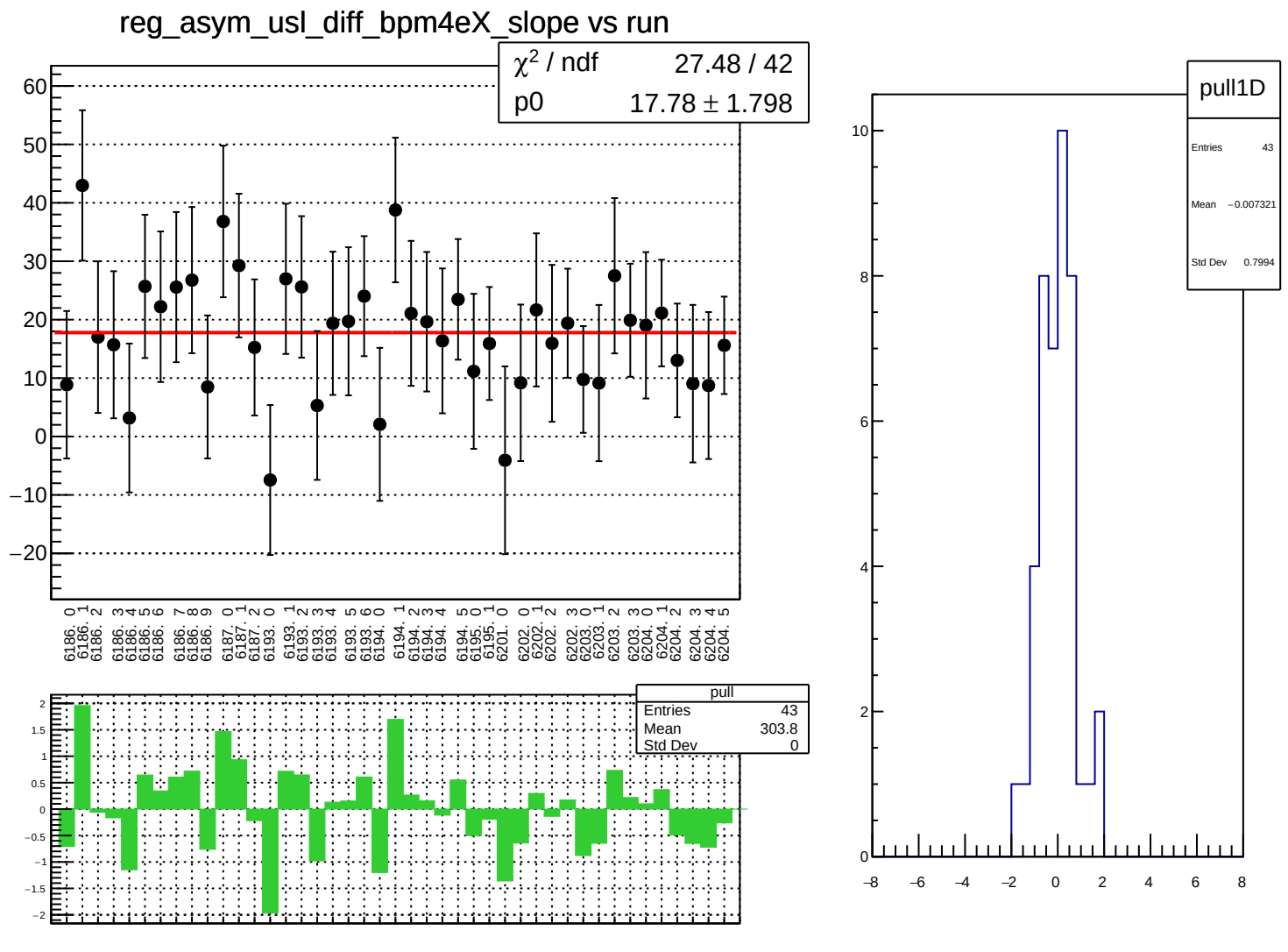

pull1D
Entries 43
Mean 0.2504
Std Dev 1.018

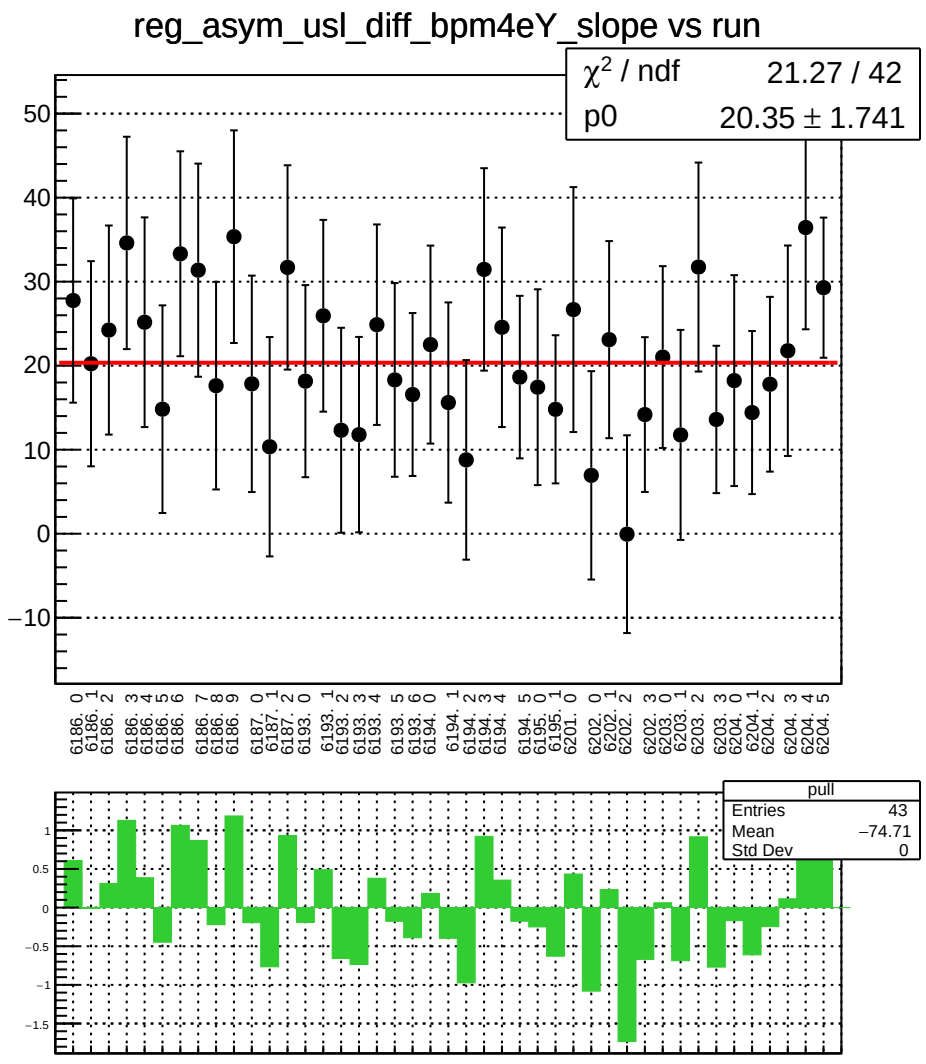

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 27.71 / 42
p0 −62.8 ± 1.646
pull
Entries 43
Mean 327.3
Std Dev 0

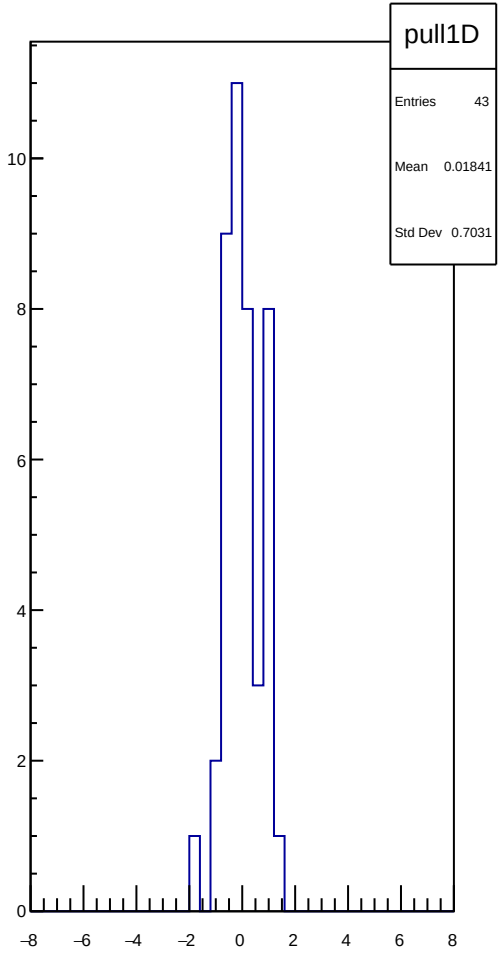

pull1D
Entries 43
Mean 0.006977
Std Dev 0.8027

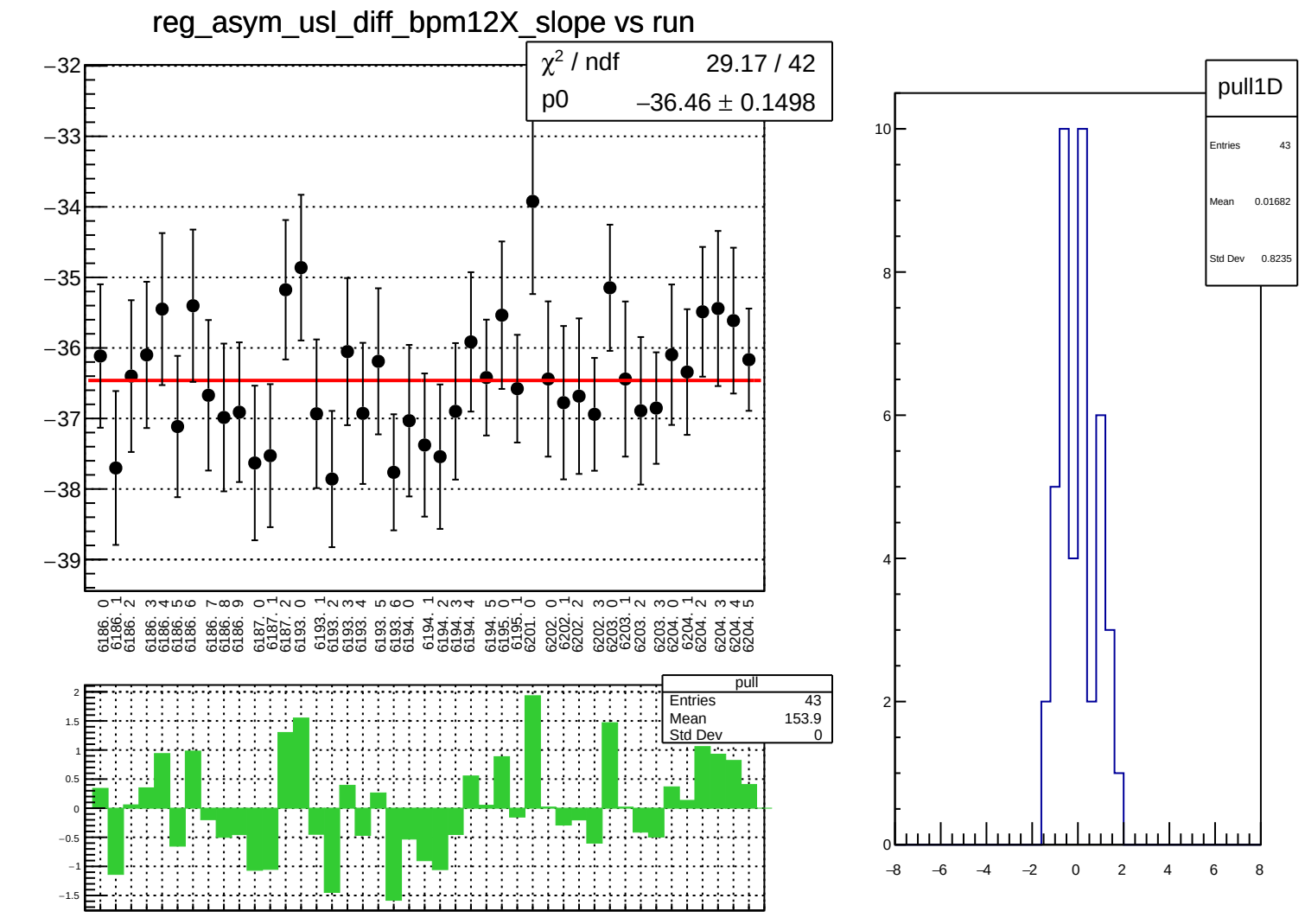

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 21.69 / 42
p0 1.438 ± 1.549
pull
Entries 43
Mean −79.5
Std Dev 0

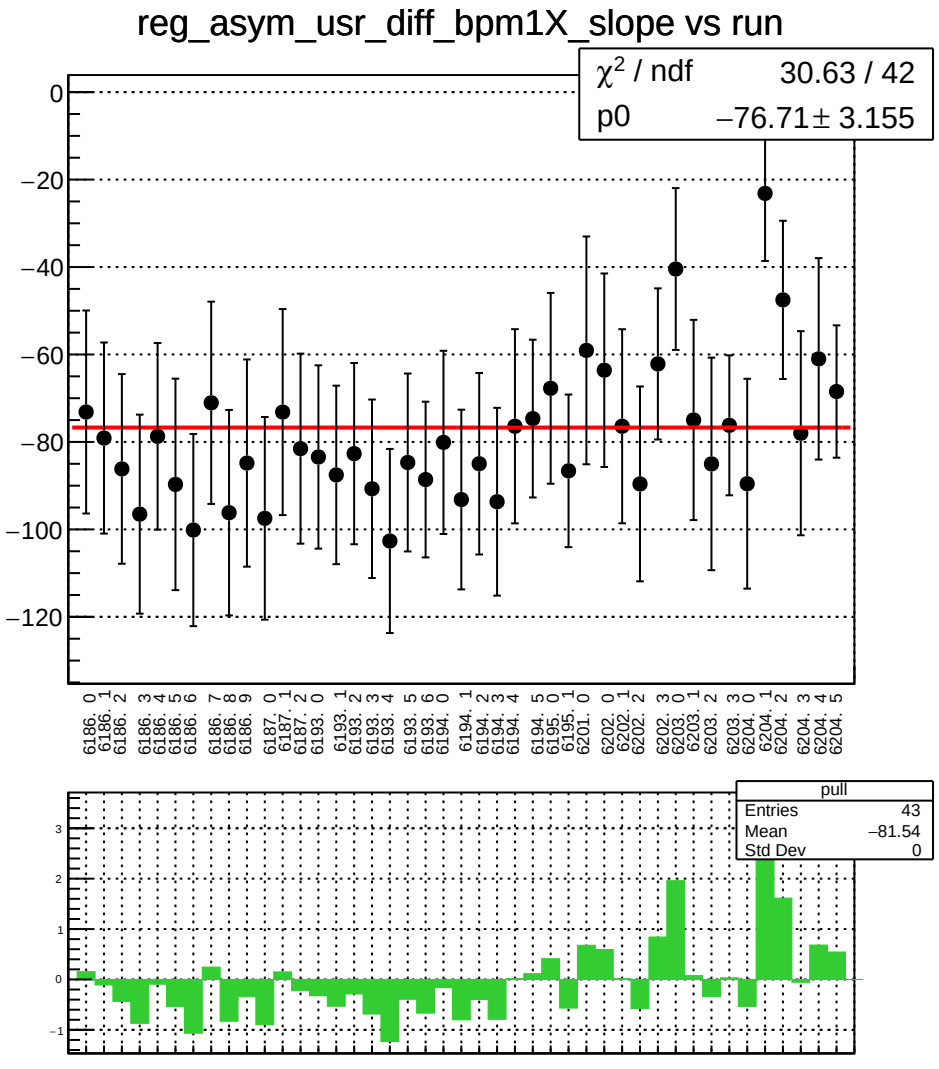

pull1D
Entries 43
Mean −0.01566
Std Dev 0.71

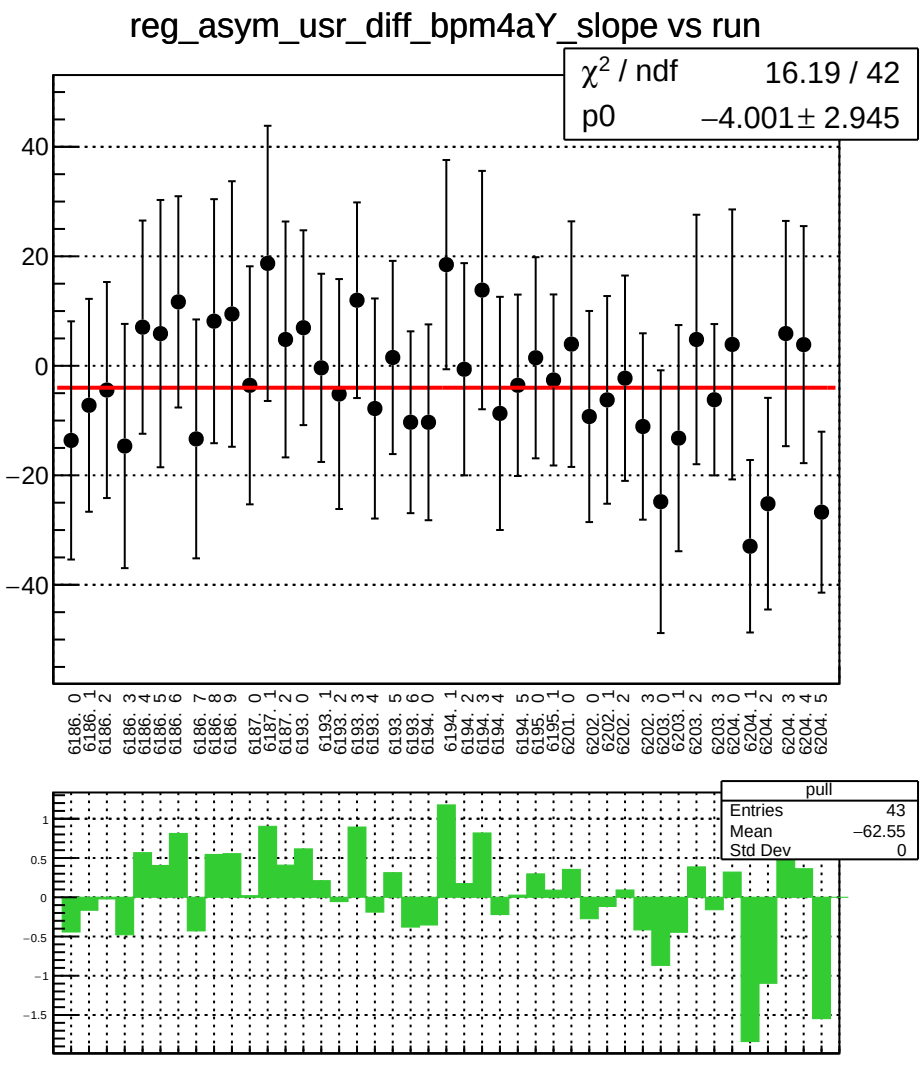

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 27.48 / 42
p0 17.78 ± 1.798
pull
Entries 43
Mean 303.8
Std Dev 0
pull1D
Entries 43
Mean −0.007321
Std Dev 0.7994

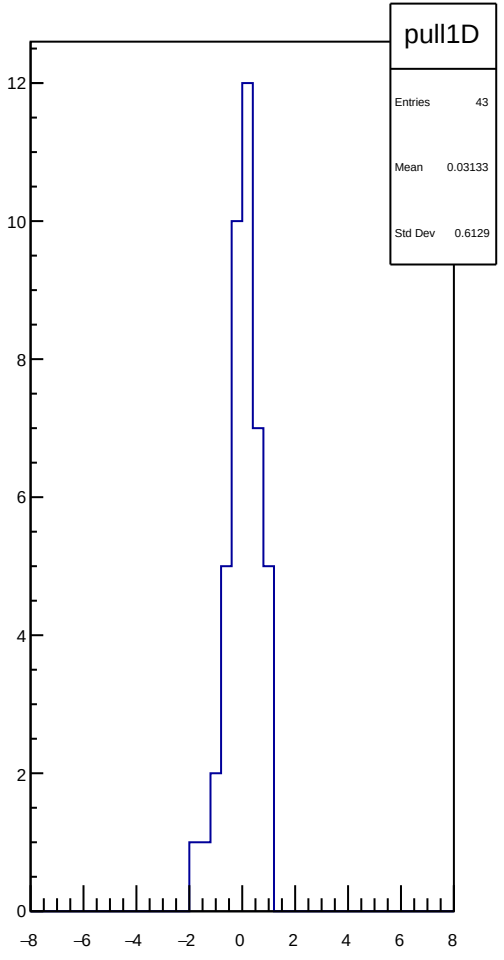

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 21.27 / 42
p0 20.35 ± 1.741
pull
Entries 43
Mean −74.71
Std Dev 0

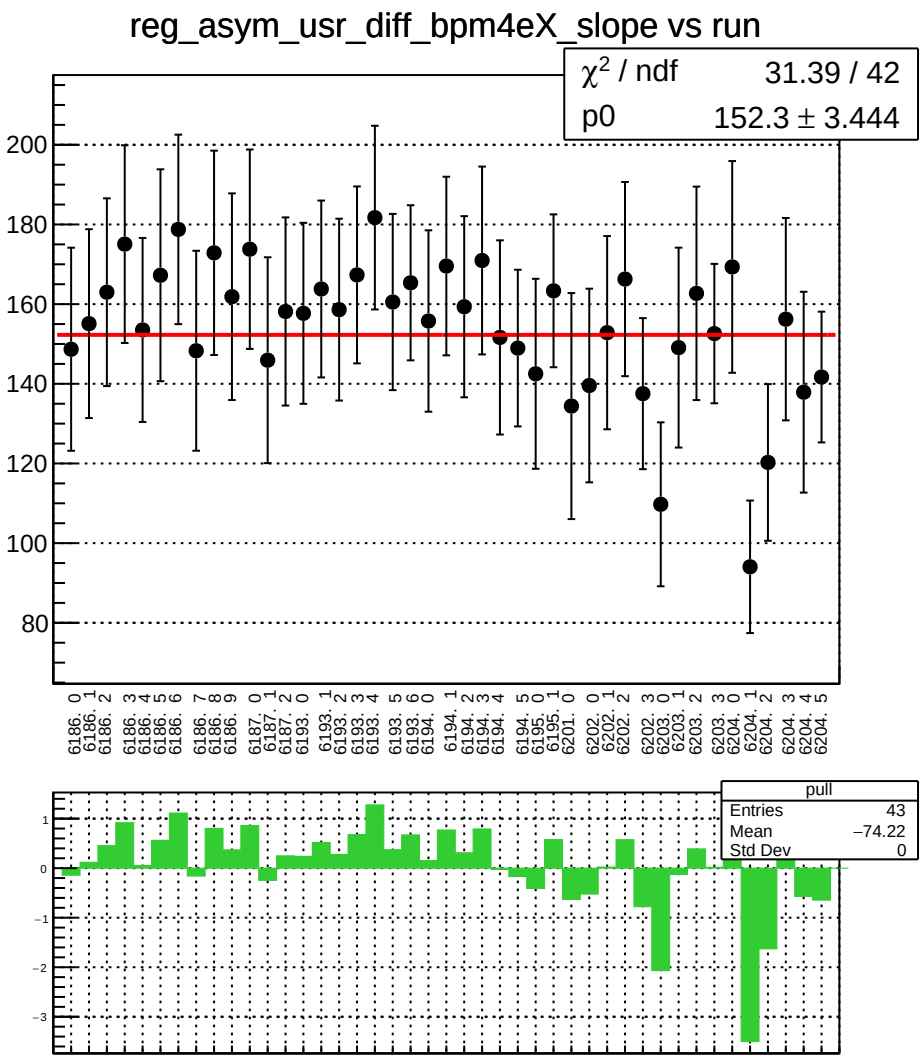

pull1D
Entries 43
Mean 0.01841
Std Dev 0.7031

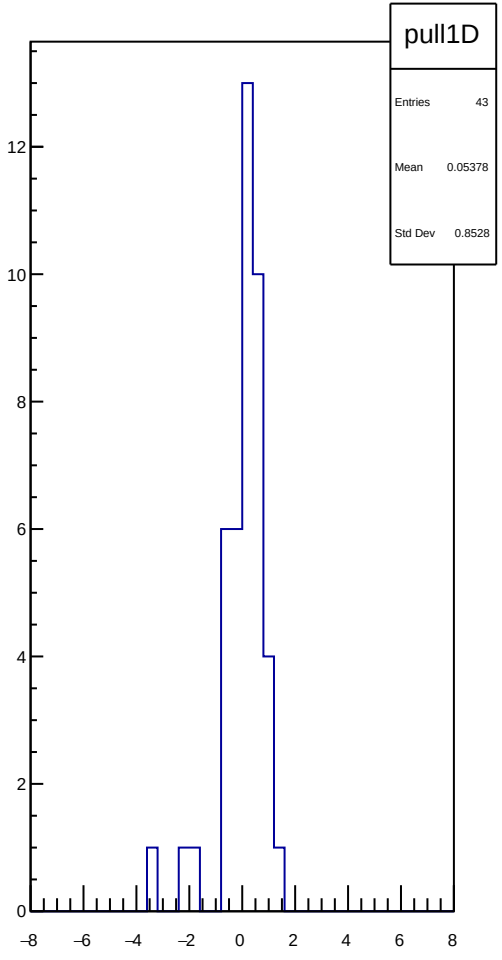

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 29.17 / 42
p0 −36.46 ± 0.1498
−32
−33
−34
−35
−36
−37
−38
−39
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 153.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01682
Std Dev 0.8235
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

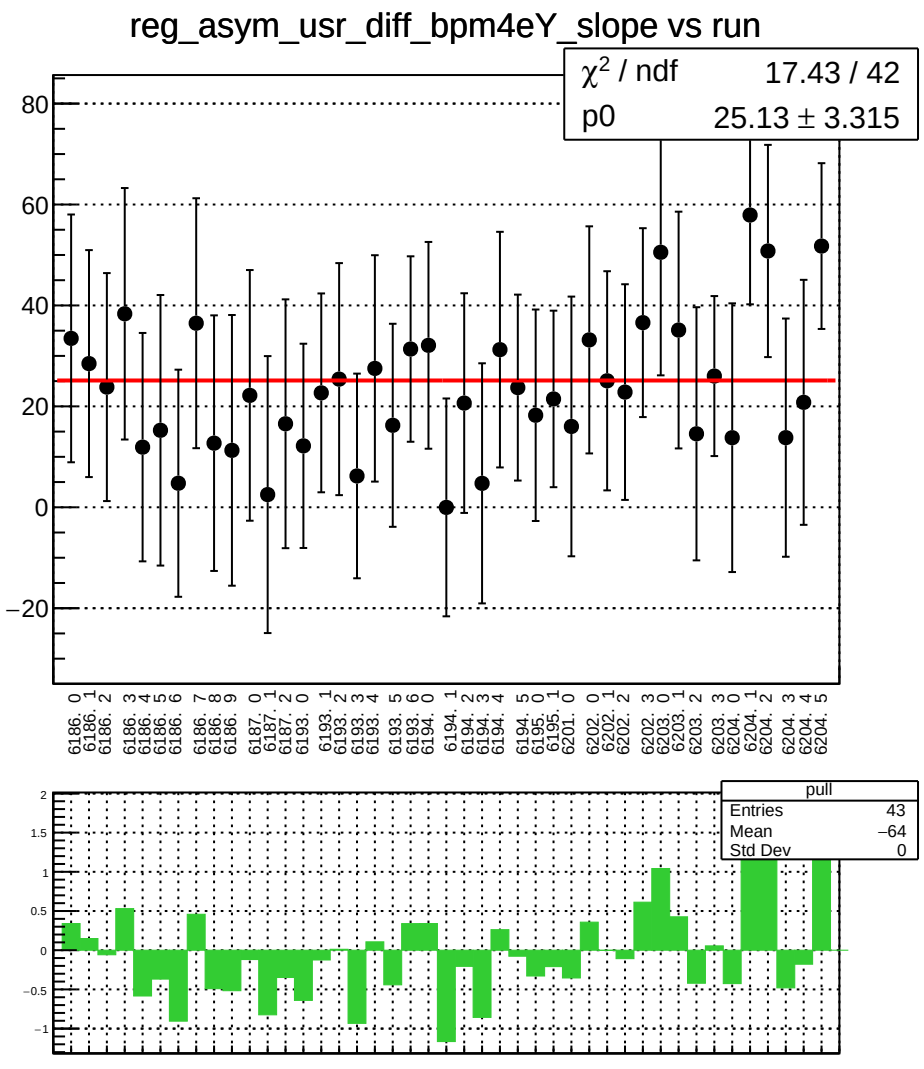

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 30.63 / 42
p0 −76.71± 3.155
0
−20
−40
−60
−80
−100
−120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −81.54
Std Dev 0
3
2
1
0
−1
pull1D
Entries 43
Mean −0.05051
Std Dev 0.8425
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

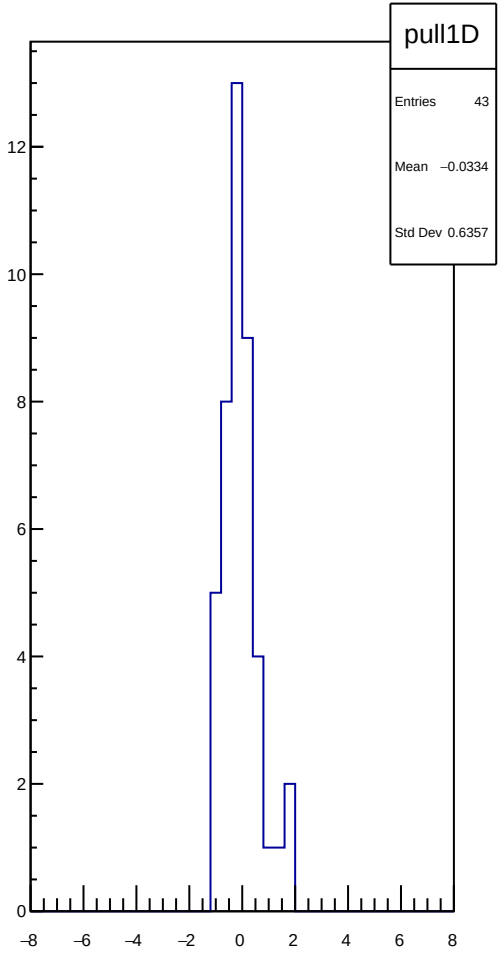

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 16.19 / 42
p0 −4.001 ± 2.945
40
20
0
−20
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −62.55
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

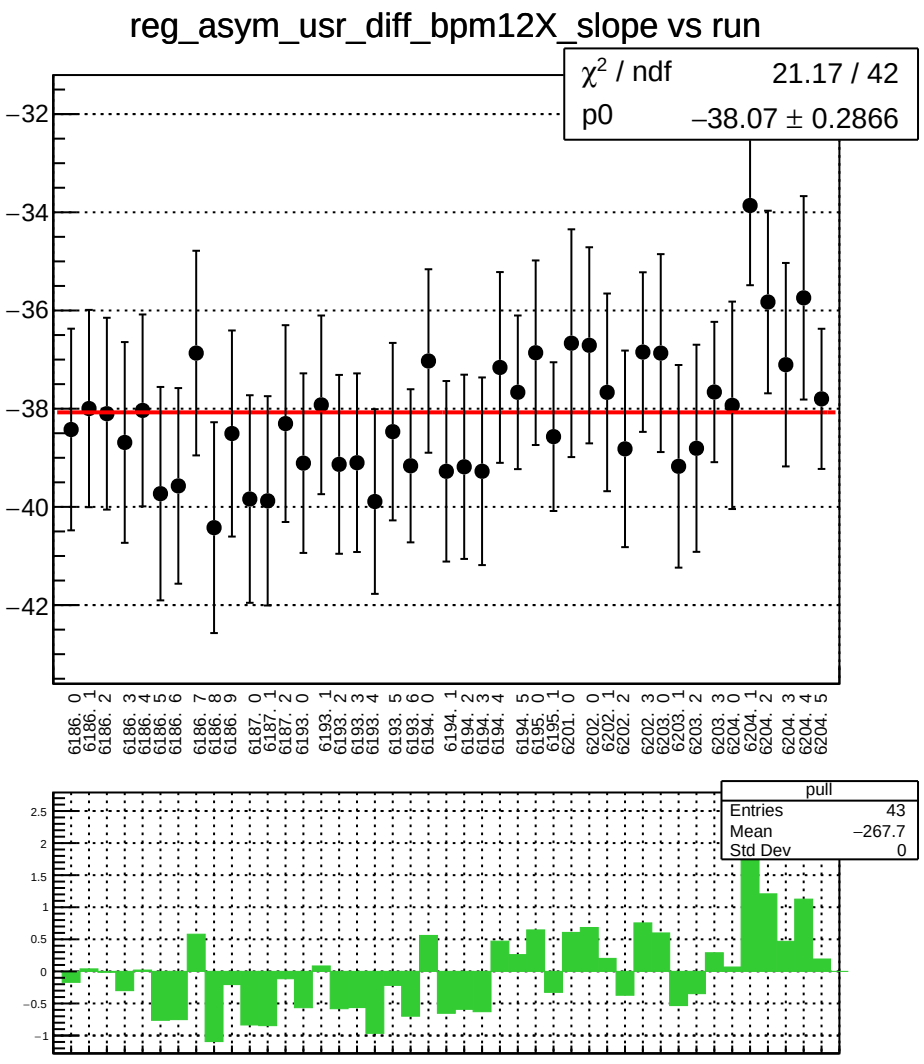

pull1D
Entries 43
Mean 0.03133
Std Dev 0.6129
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

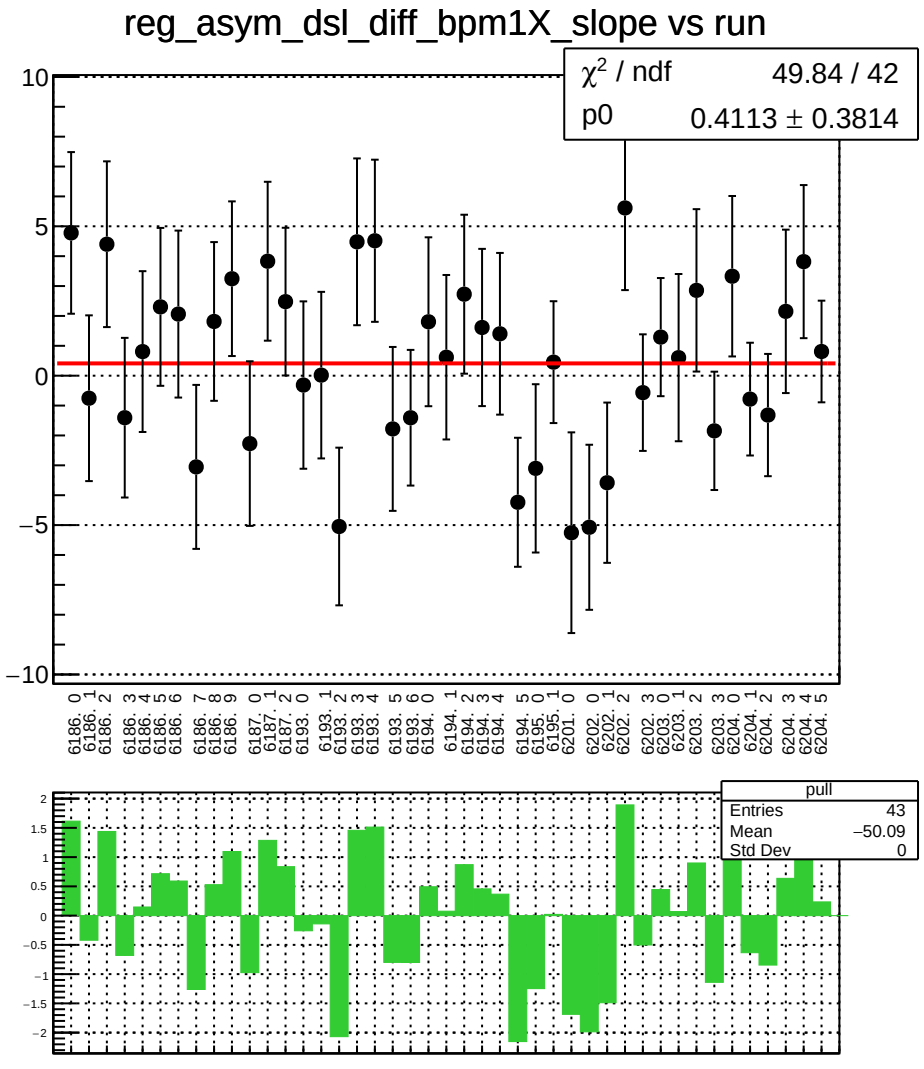

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 31.39 / 42
p0 152.3 ± 3.444
200
180
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −74.22
Std Dev 0
1
0
−1
−2
−3

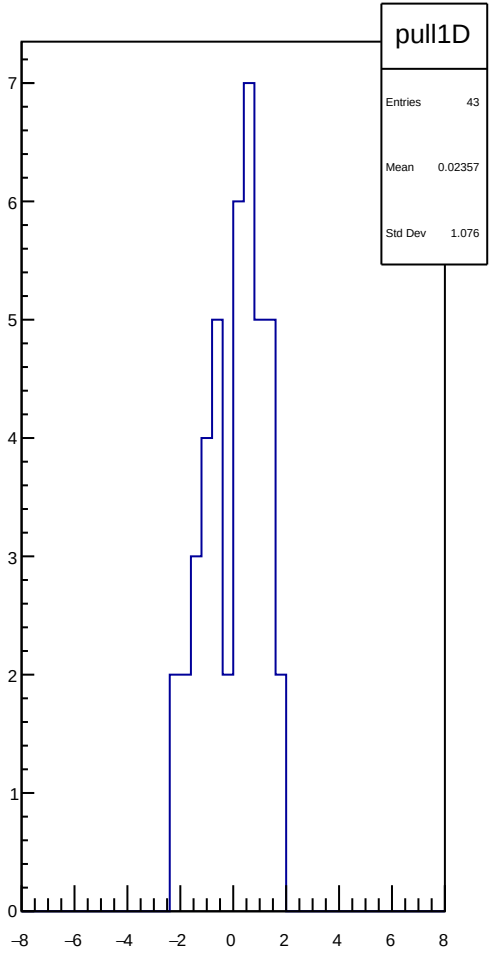

pull1D
Entries 43
Mean 0.05378
Std Dev 0.8528
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

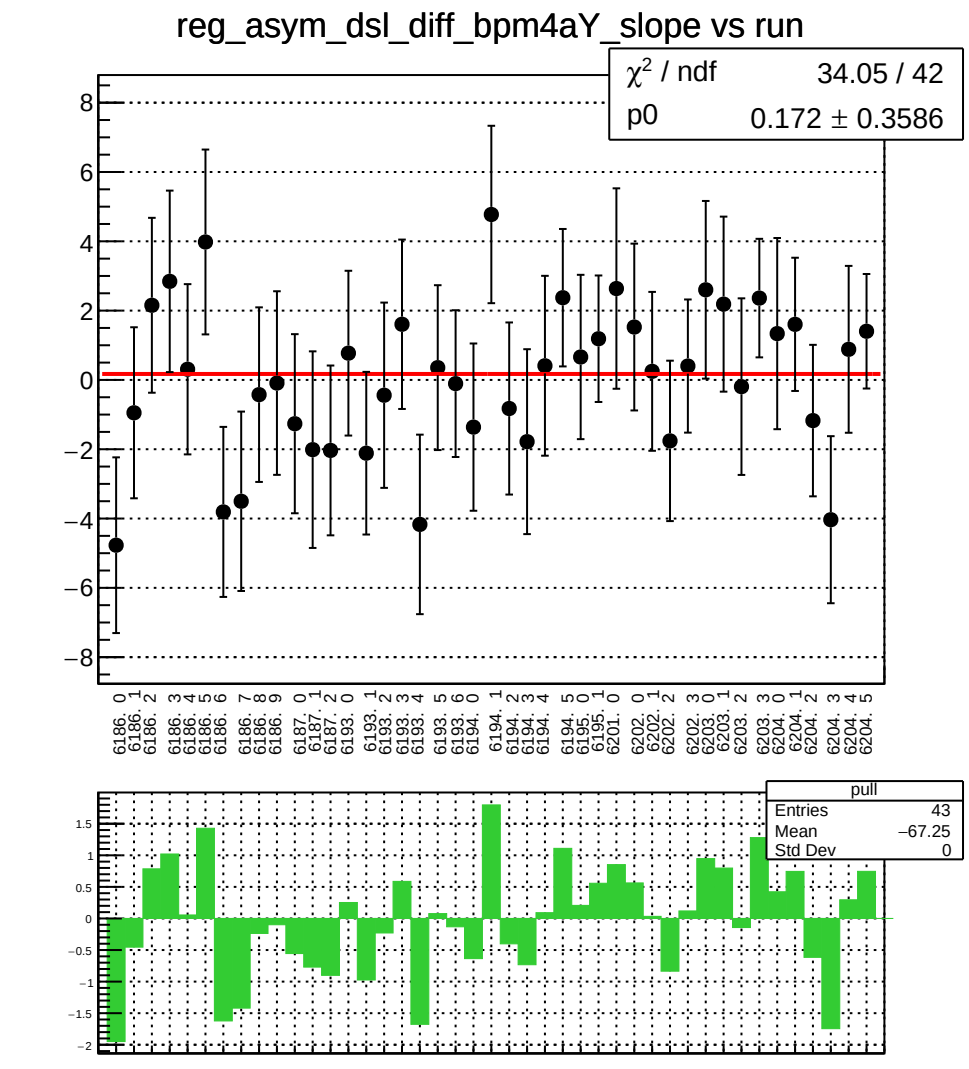

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 17.43 / 42
p0 25.13 ± 3.315
pull
Entries 43
Mean −64
Std Dev 0

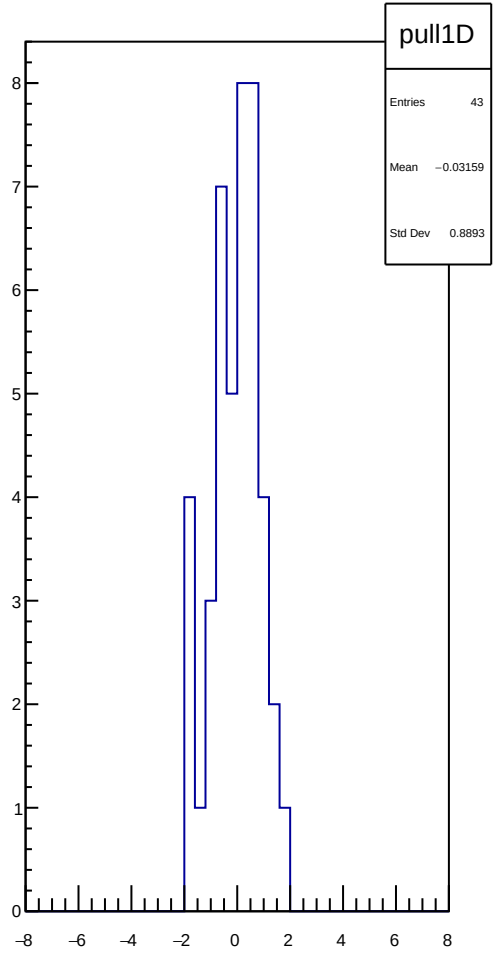

pull1D
Entries 43
Mean −0.0334
Std Dev 0.6357

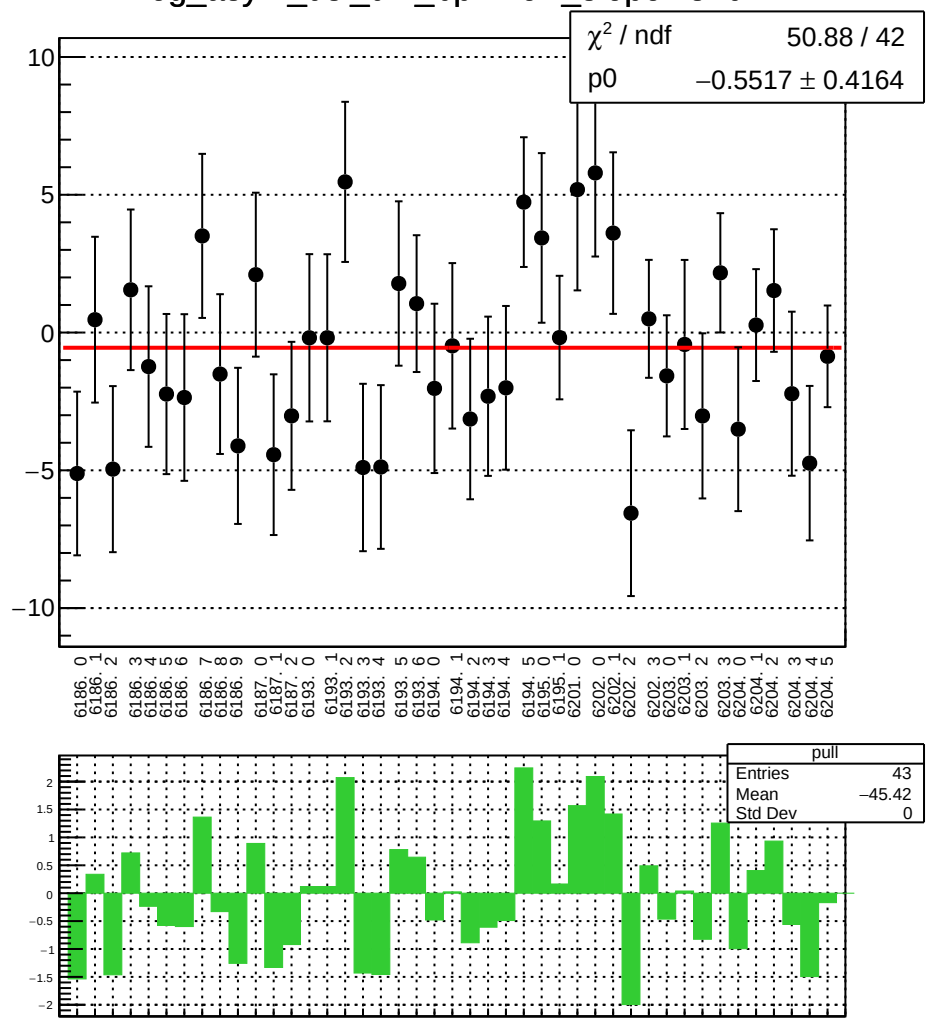

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 21.17 / 42
p0 −38.07 ± 0.2866
−32
−34
−36
−38
−40
−42
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −267.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.01565
Std Dev 0.7014
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

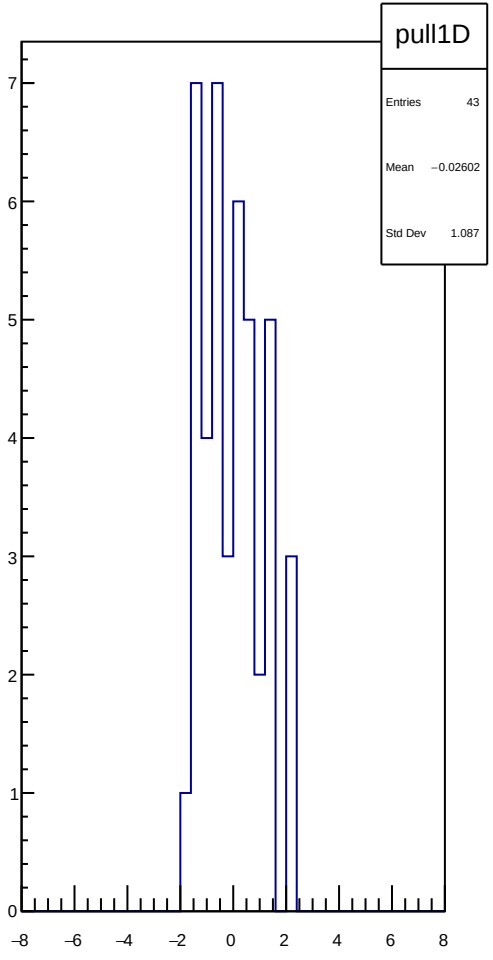

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 49.84 / 42
p0 0.4113 ± 0.3814
pull
Entries 43
Mean −50.09
Std Dev 0

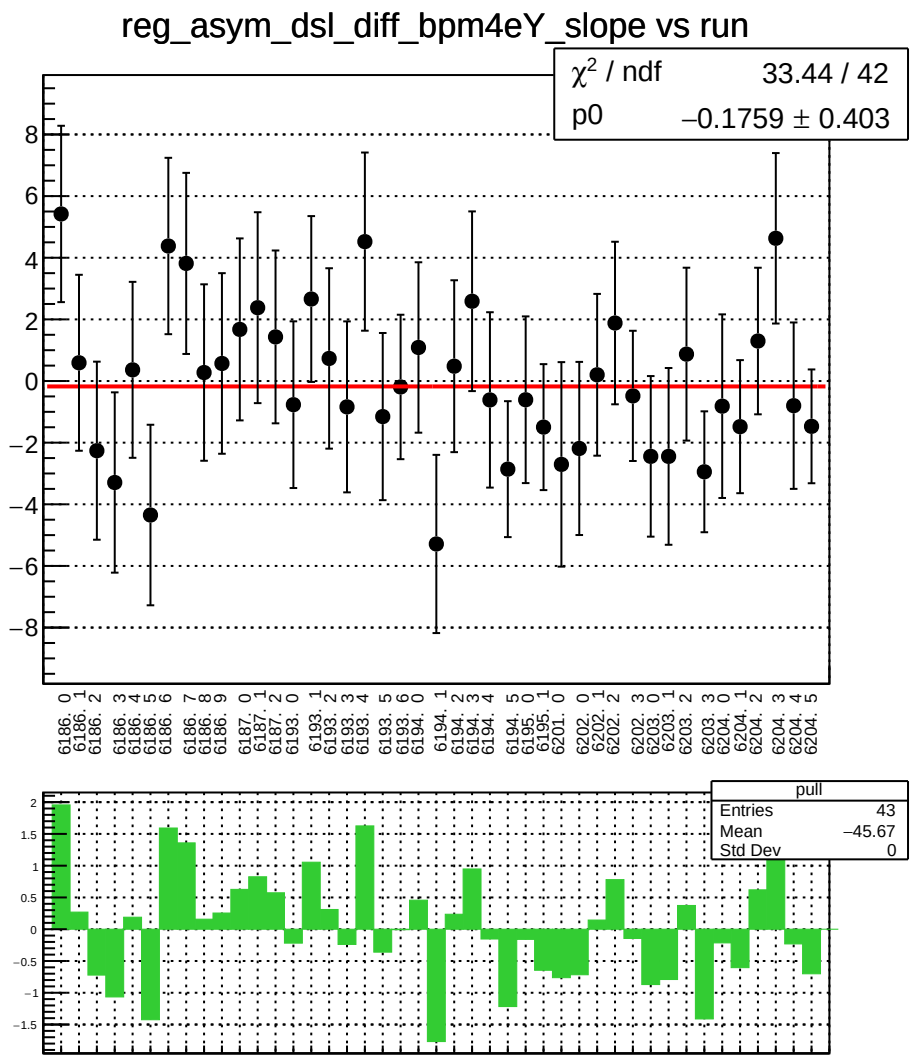

pull1D
Entries 43
Mean 0.02357
Std Dev 1.076

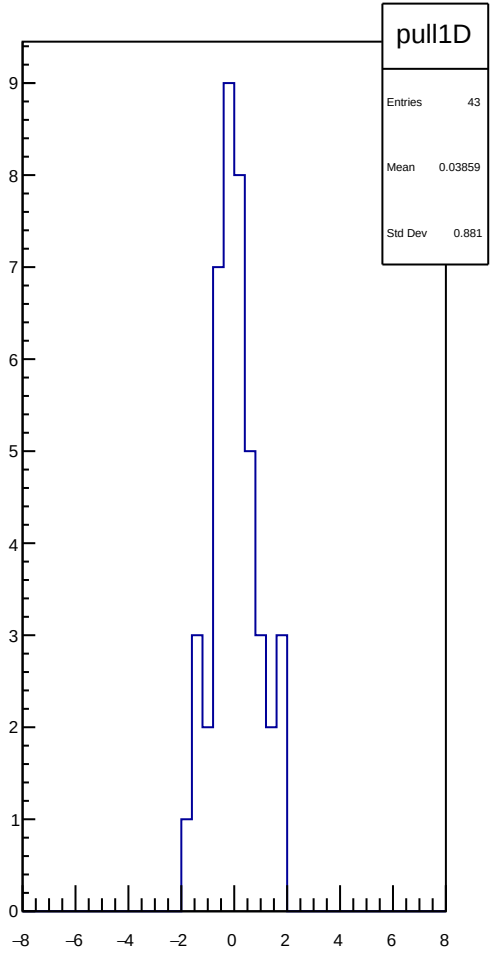

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 34.05 / 42
p0 0.172 ± 0.3586
pull
Entries 43
Mean −67.25
Std Dev 0

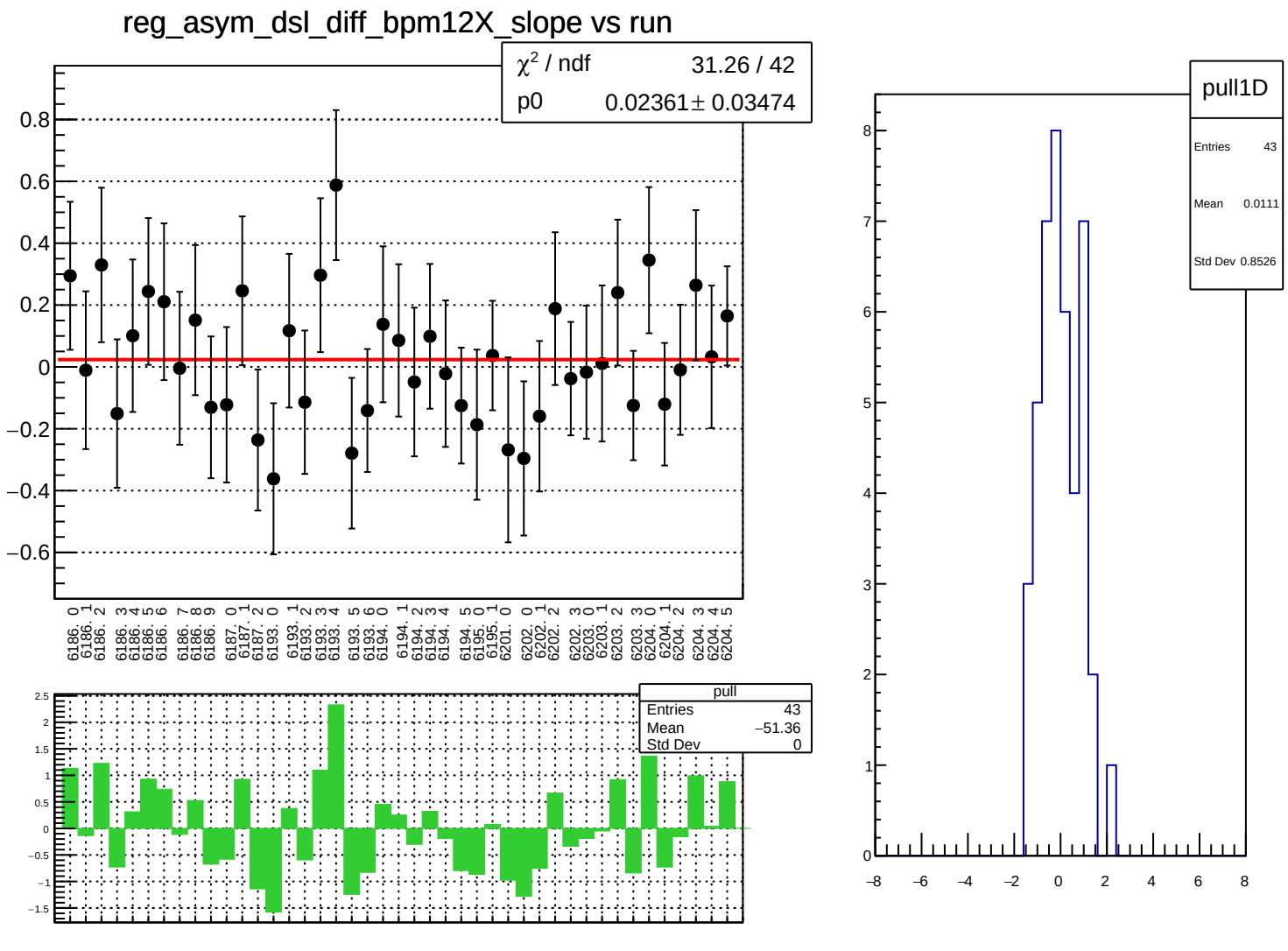

pull1D
Entries 43
Mean −0.03159
Std Dev 0.8893

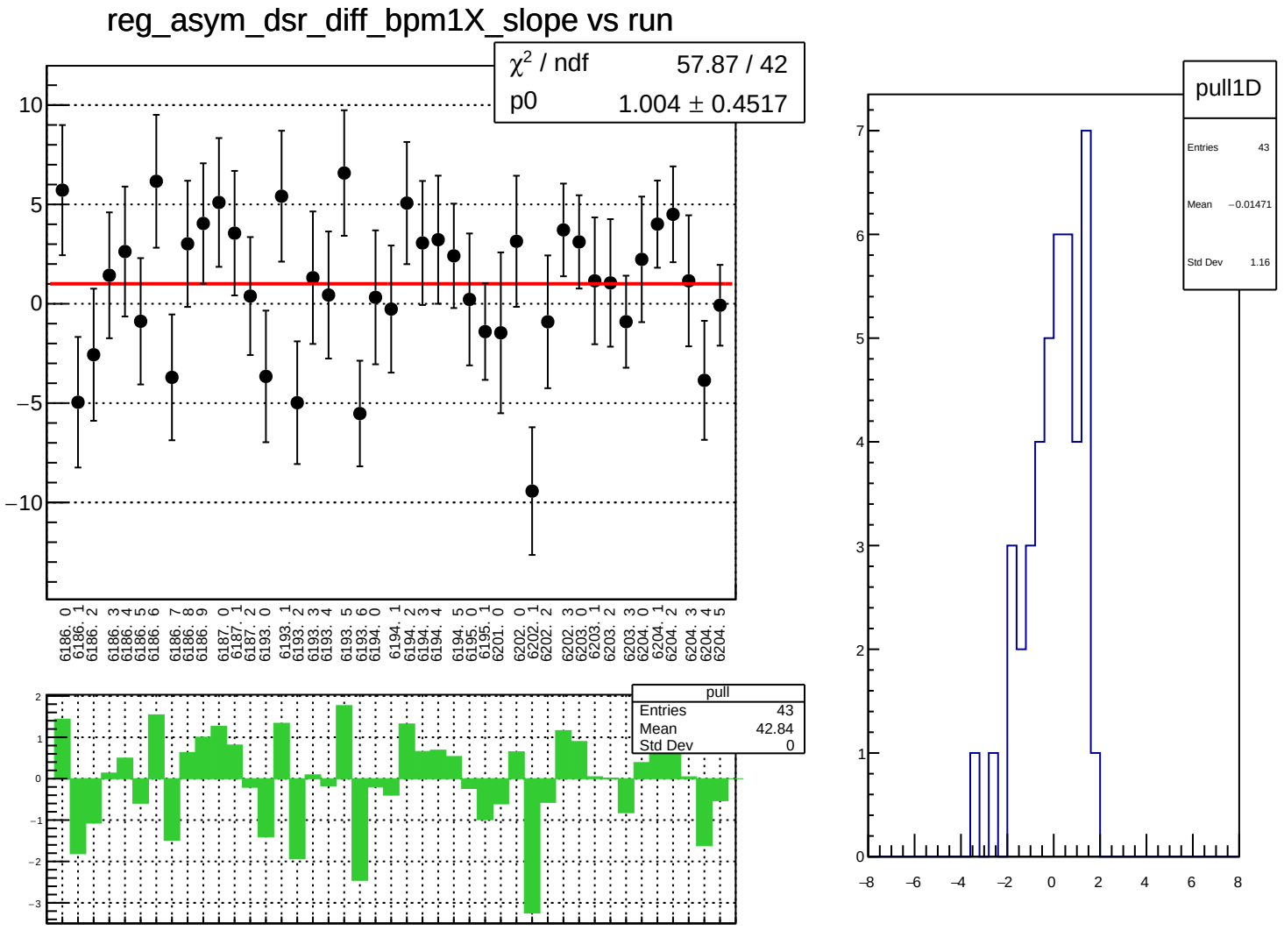

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 50.88 / 42
p0 −0.5517 ± 0.4164
pull
Entries 43
Mean −45.42
Std Dev 0

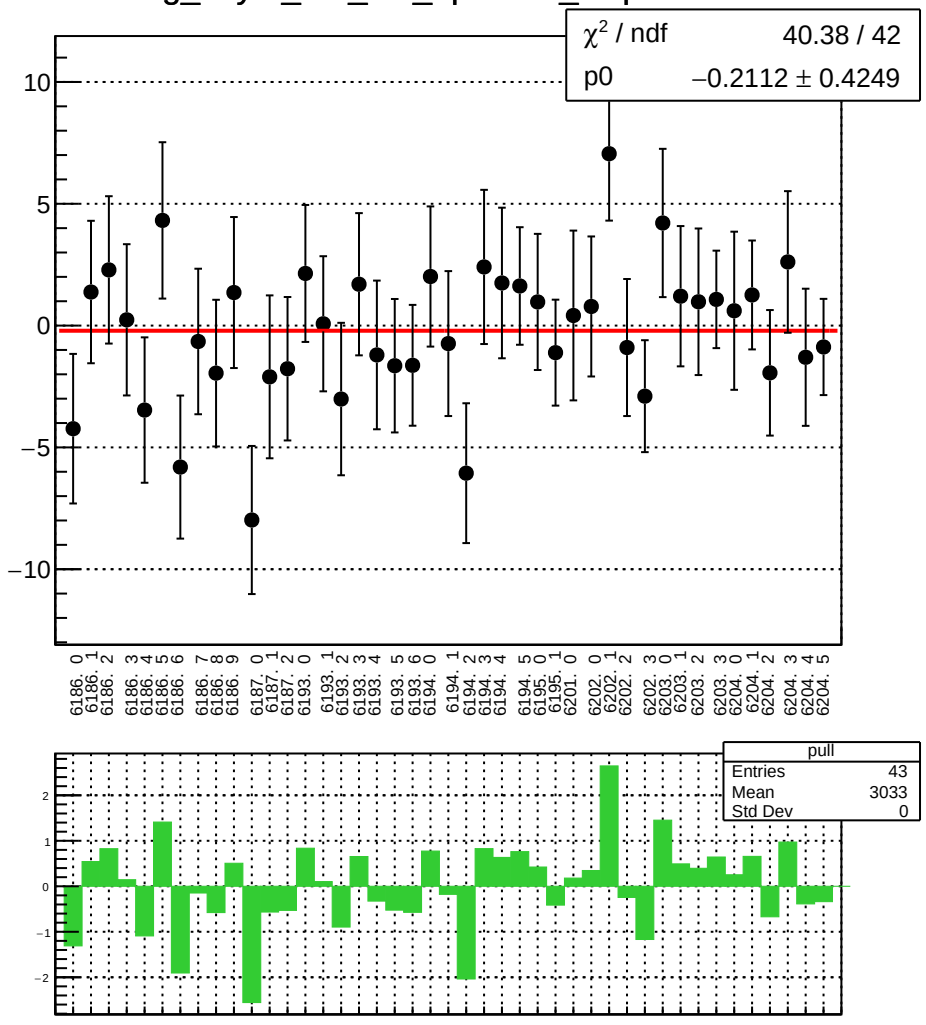

pull1D
Entries 43
Mean −0.02602
Std Dev 1.087

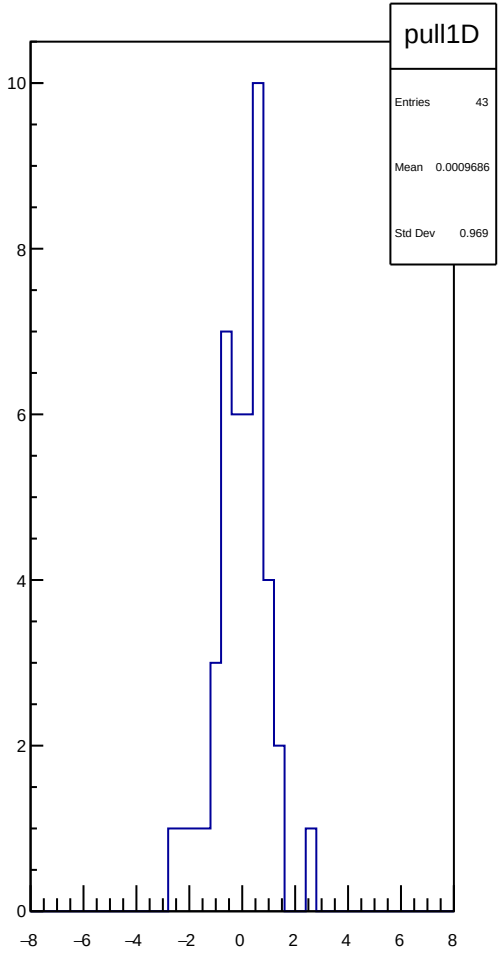

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 33.44 / 42
p0 −0.1759 ± 0.403
pull
Entries 43
Mean −45.67
Std Dev 0

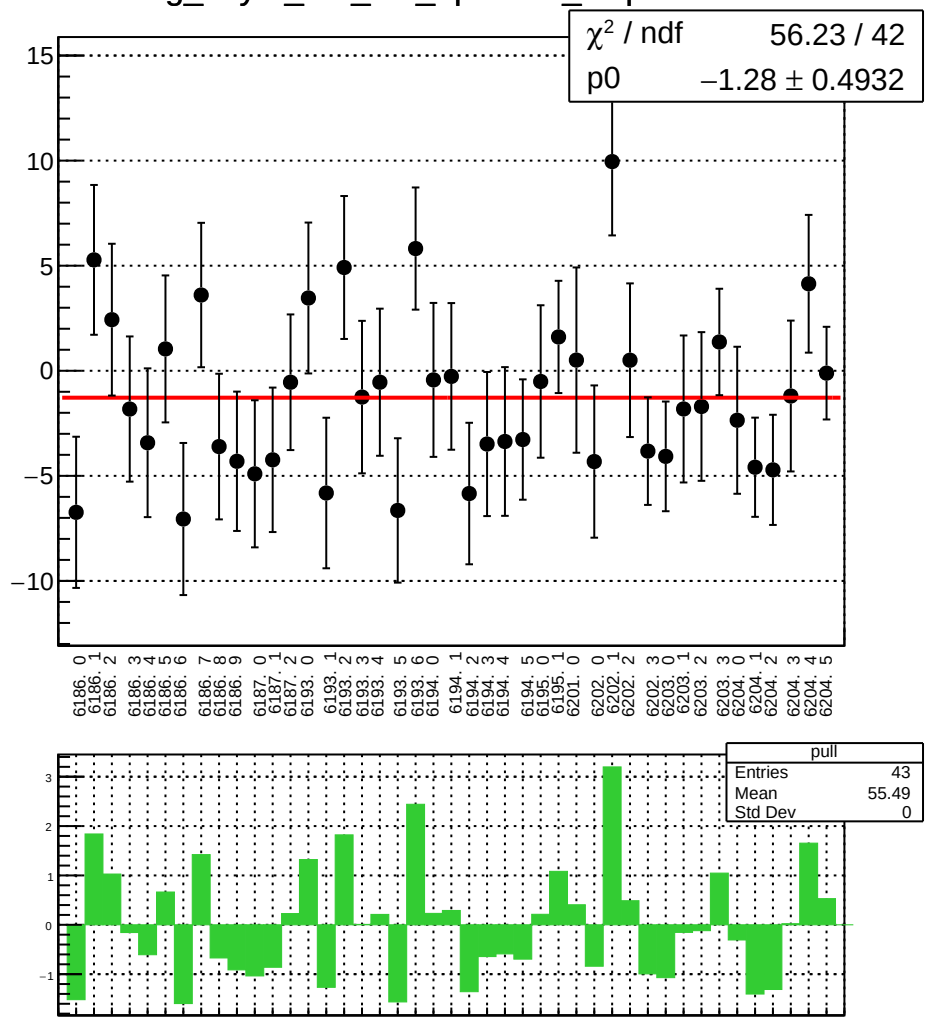

pull1D
Entries 43
Mean 0.03859
Std Dev 0.881

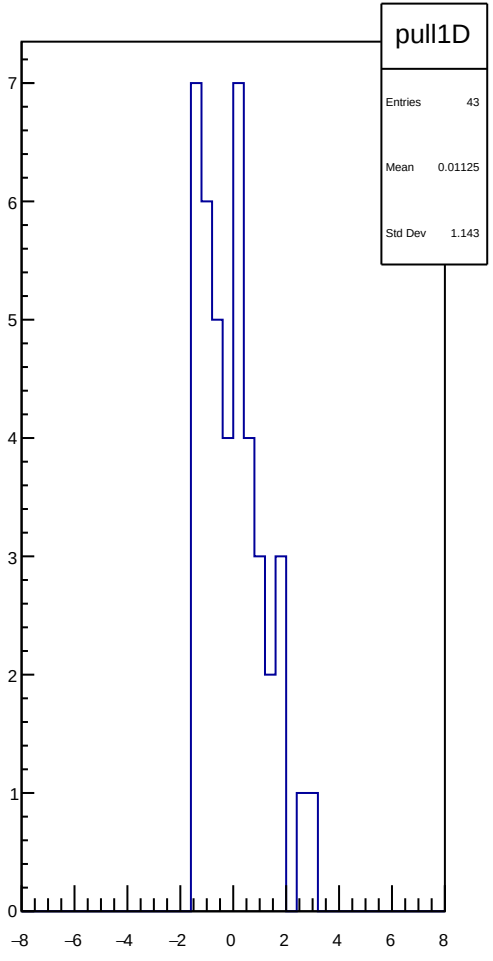

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 31.26 / 42
p0 0.02361± 0.03474
pull
Entries 43
Mean −51.36
Std Dev 0
pull1D
Entries 43
Mean 0.0111
Std Dev 0.8526

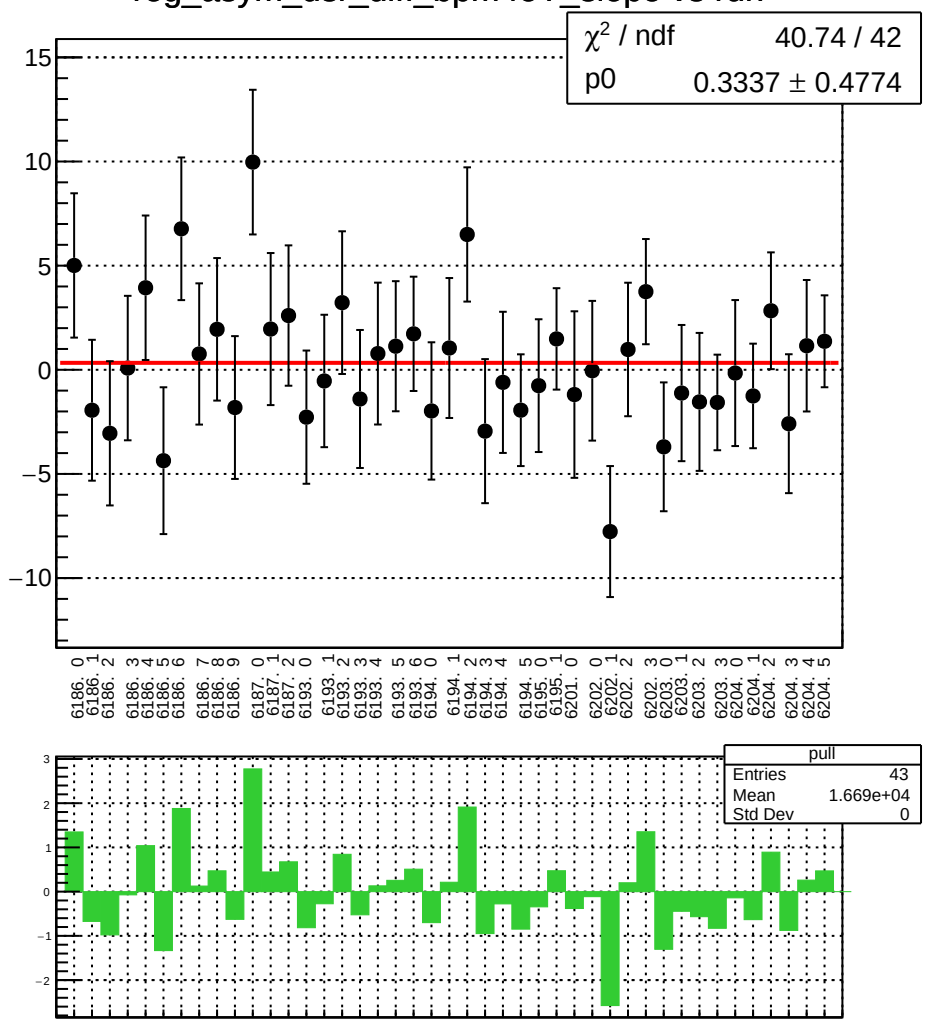

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 57.87 / 42
p0 1.004 ± 0.4517
pull
Entries 43
Mean 42.84
Std Dev 0
pull1D
Entries 43
Mean −0.01471
Std Dev 1.16

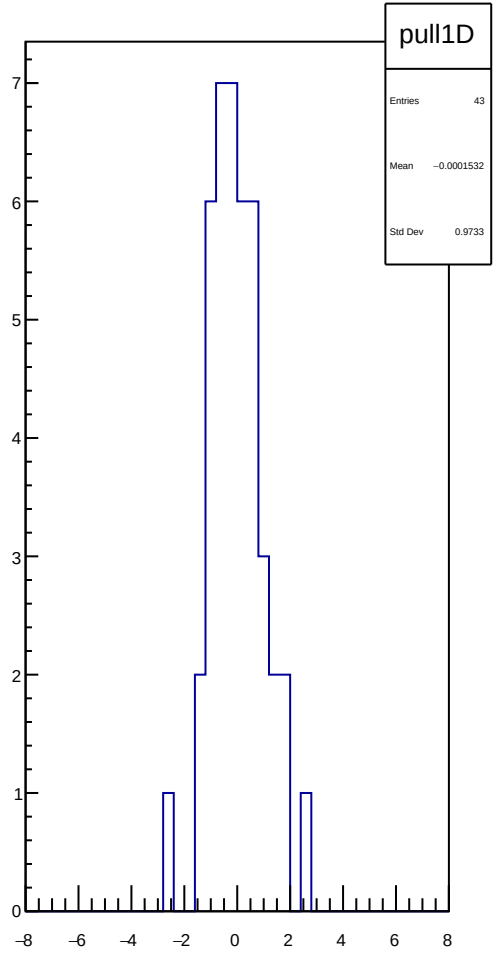

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 40.38 / 42
p0 −0.2112 ± 0.4249
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 3033
Std Dev 0
2
1
0
−1
−2

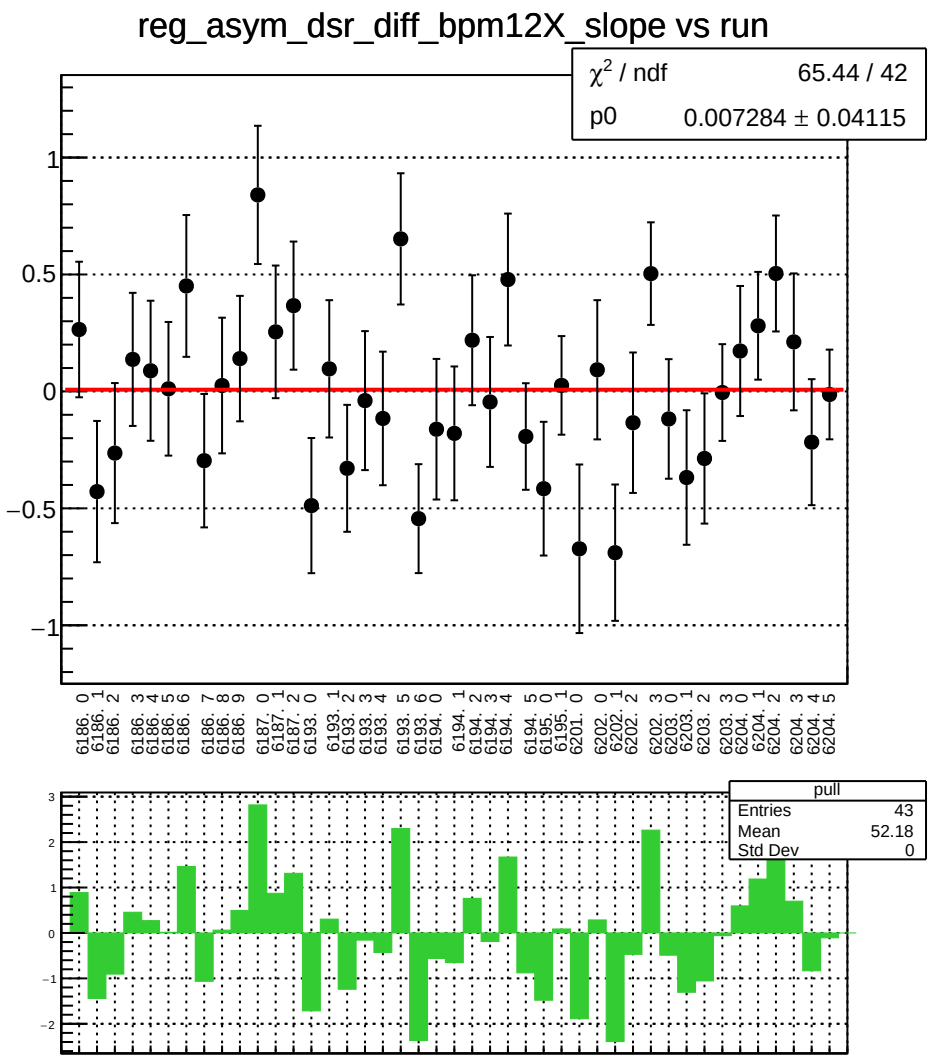

pull1D
Entries 43
Mean 0.0009686
Std Dev 0.969
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

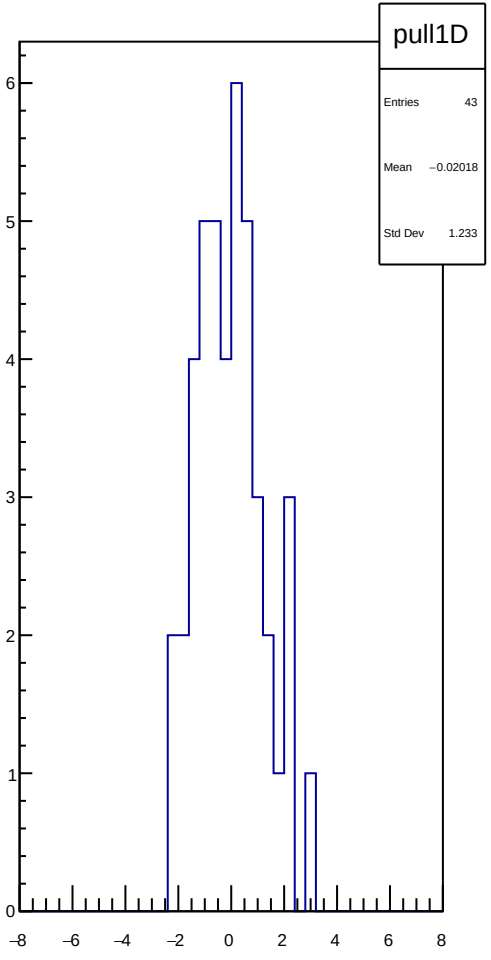

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 56.23 / 42
p0 −1.28 ± 0.4932
pull
Entries 43
Mean 55.49
Std Dev 0

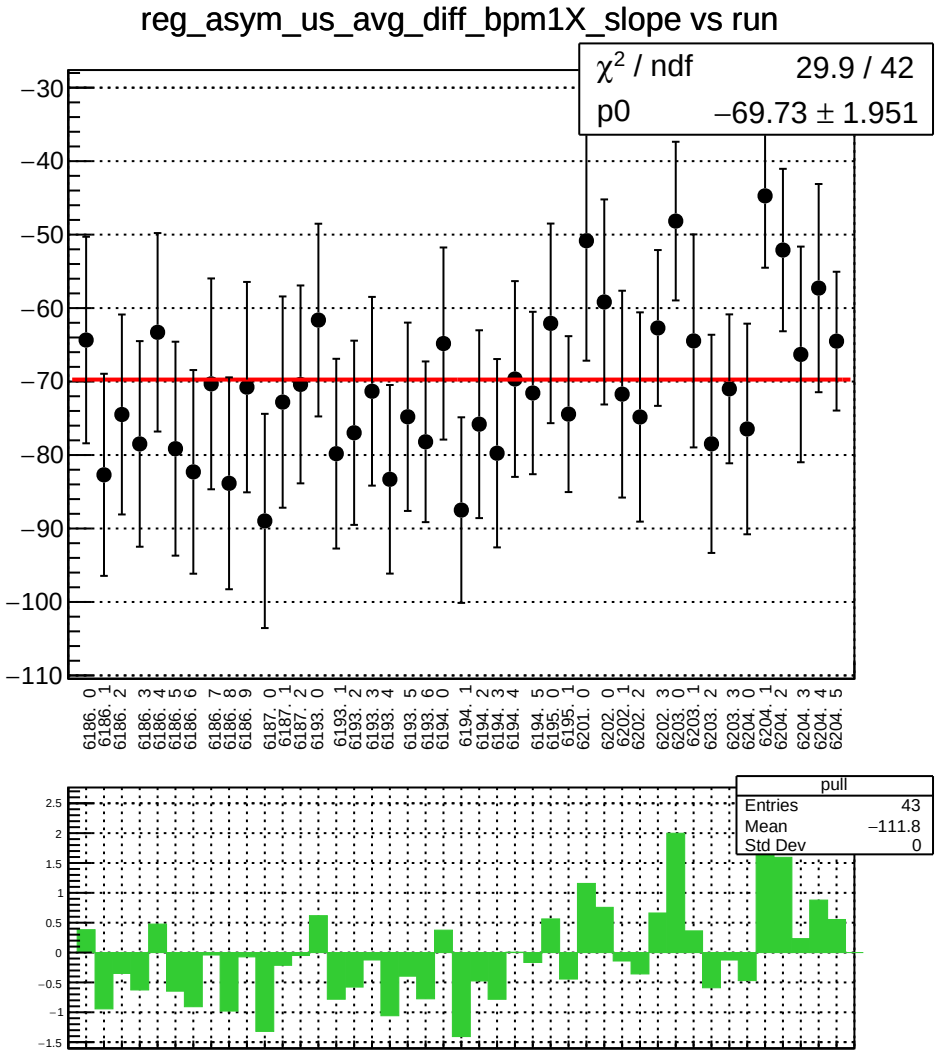

pull1D
Entries 43
Mean 0.01125
Std Dev 1.143

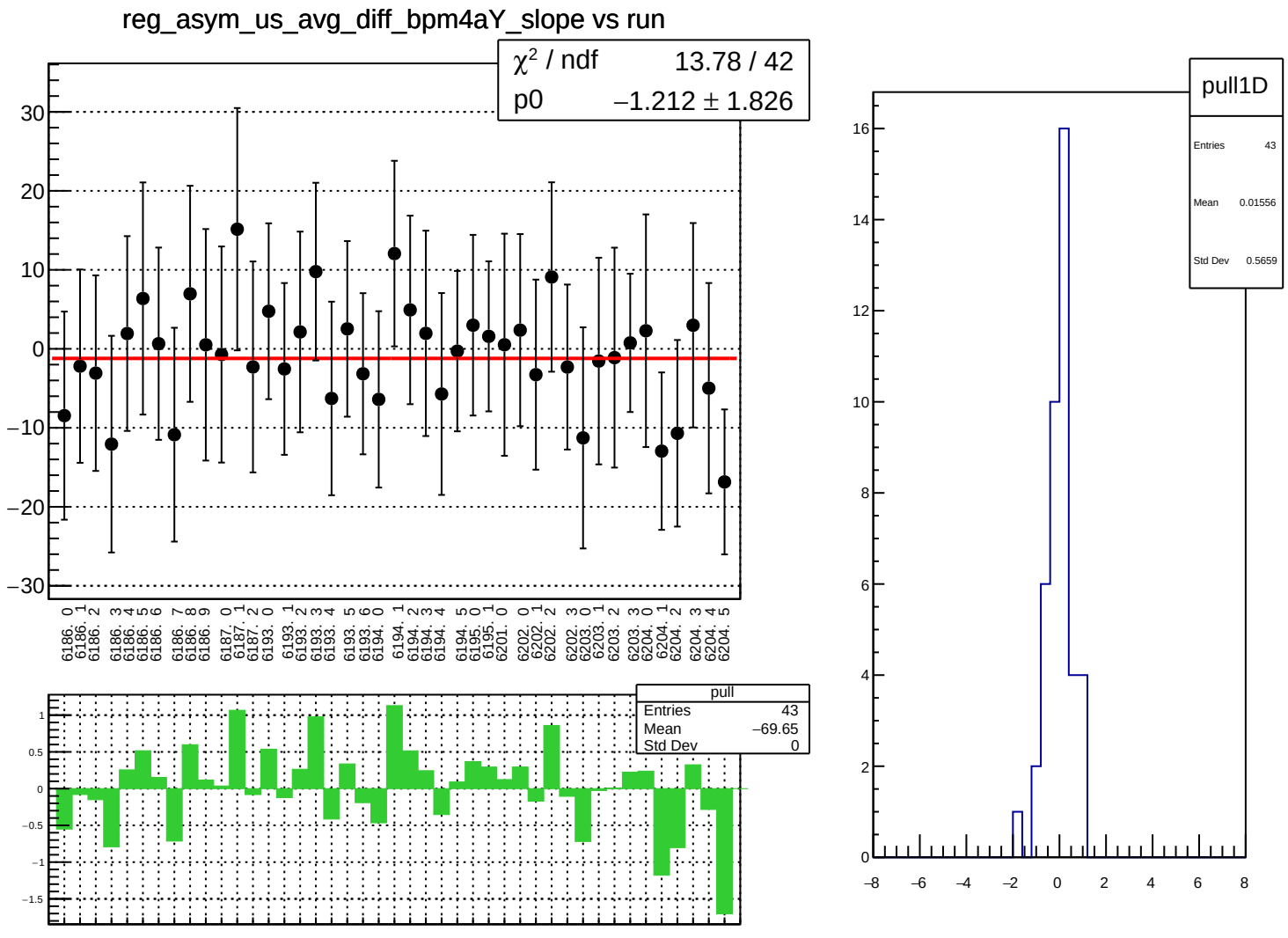

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 40.74 / 42
p0 0.3337 ± 0.4774
15
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 1.669e+04
Std Dev 0
3
2
1
0
−1
−2

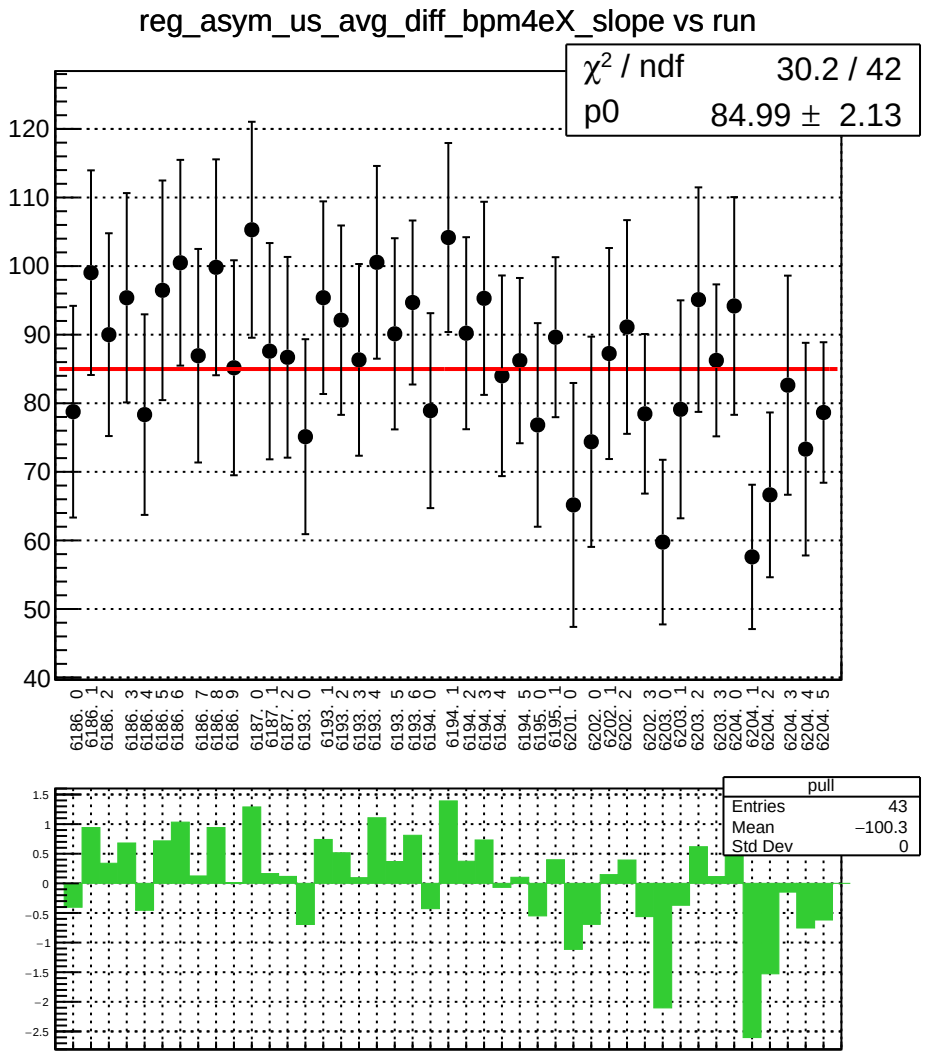

pull1D
Entries 43
Mean −0.0001532
Std Dev 0.9733
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

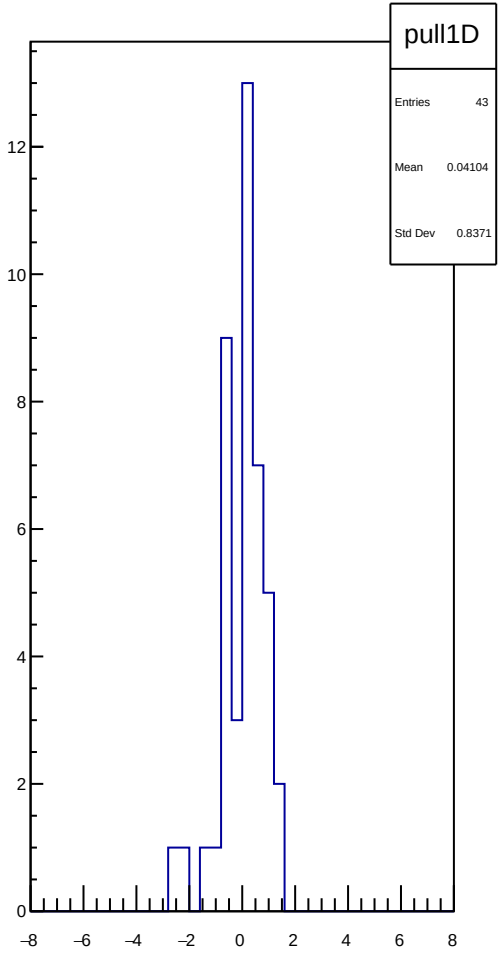

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 65.44 / 42
p0 0.007284 ± 0.04115
pull
Entries 43
Mean 52.18
Std Dev 0

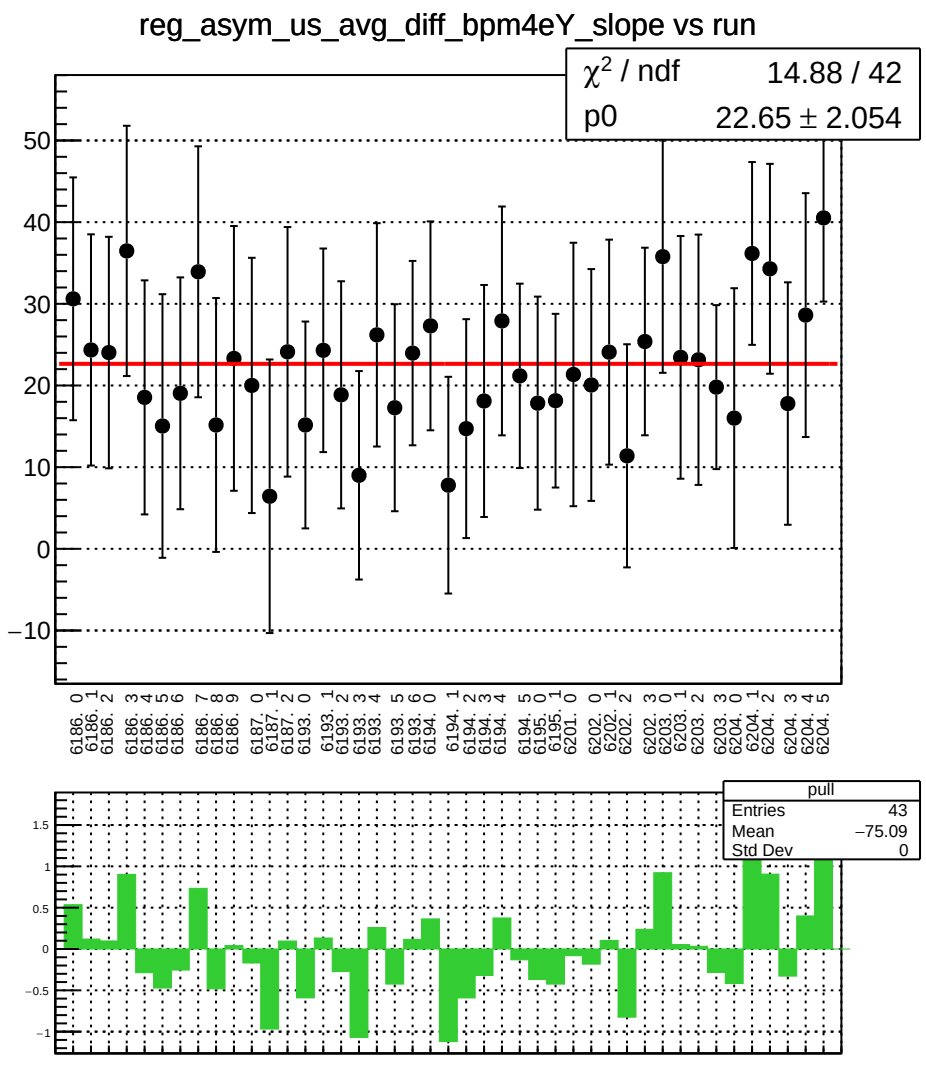

pull1D
Entries 43
Mean −0.02018
Std Dev 1.233

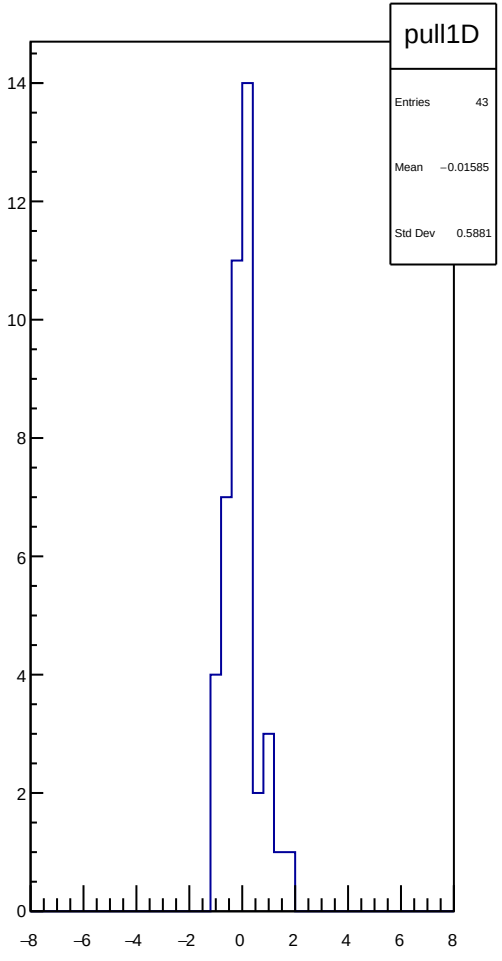

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 29.9 / 42
p0 −69.73 ± 1.951
pull
Entries 43
Mean −111.8
Std Dev 0
pull1D
Entries 43
Mean −0.03802
Std Dev 0.833

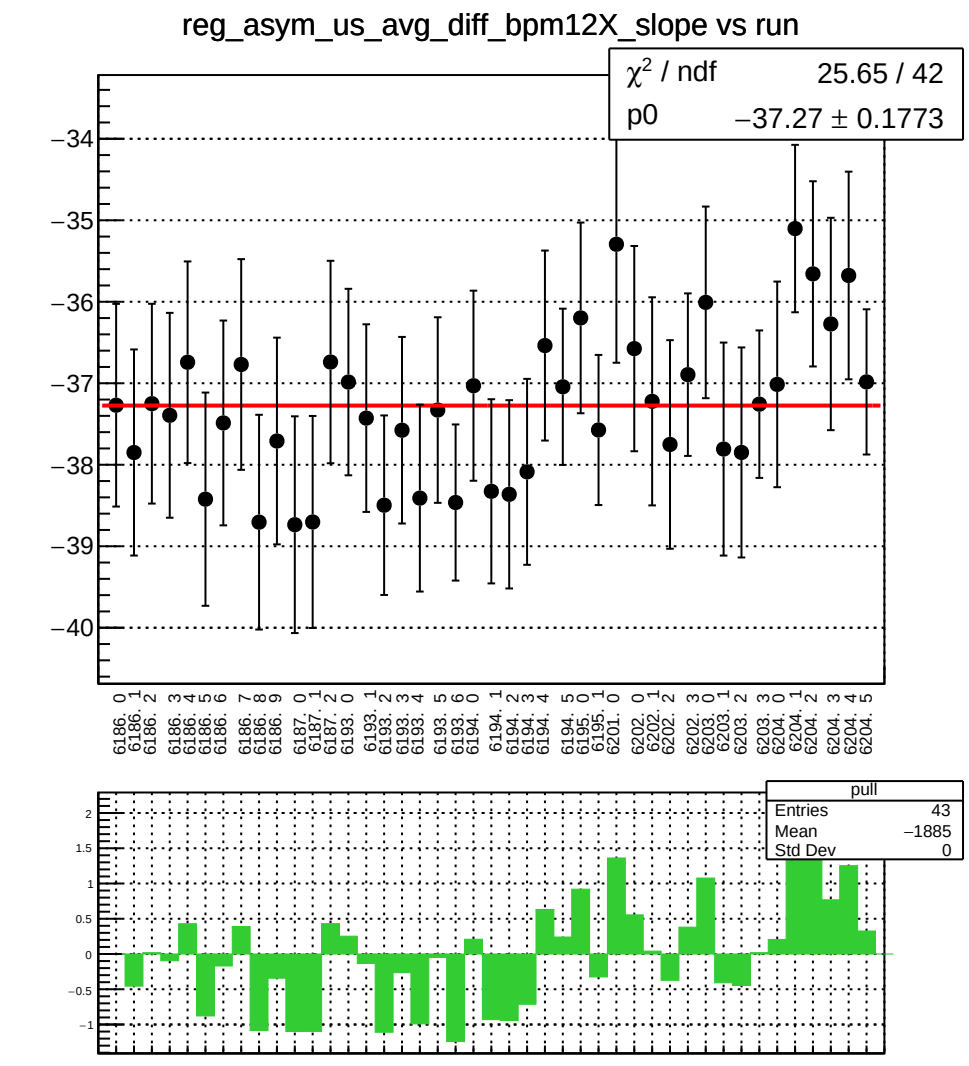

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.78 / 42
p0 −1.212 ± 1.826
pull
Entries 43
Mean −69.65
Std Dev 0
pull1D
Entries 43
Mean 0.01556
Std Dev 0.5659

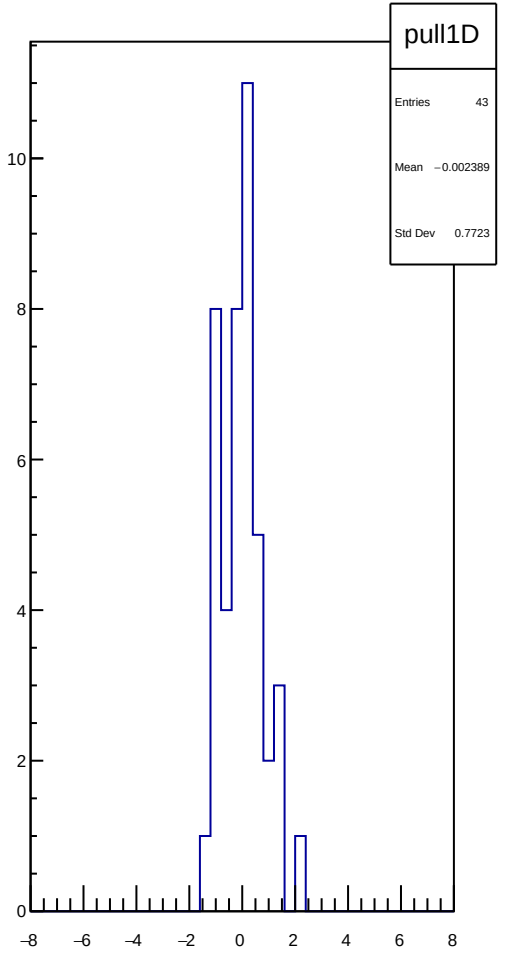

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.2 / 42
p0 84.99 ± 2.13
pull
Entries 43
Mean −100.3
Std Dev 0

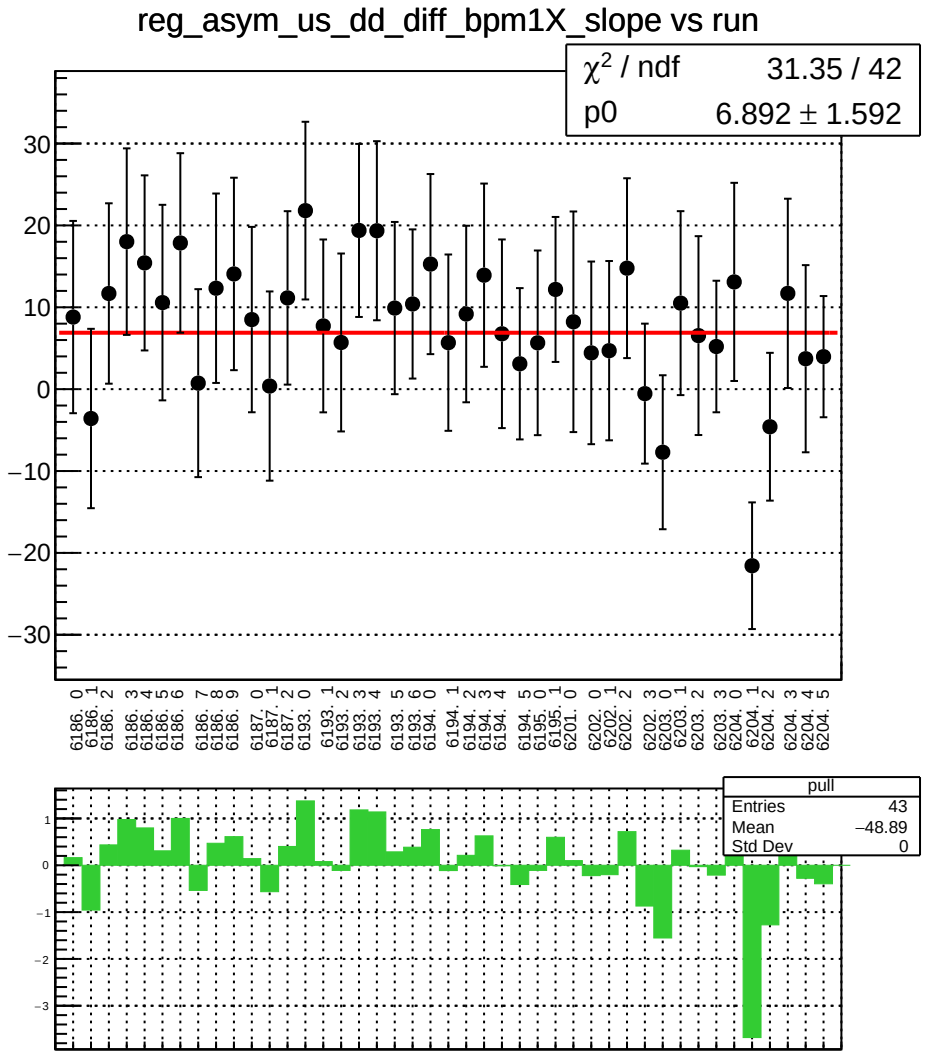

pull1D
Entries 43
Mean 0.04104
Std Dev 0.8371

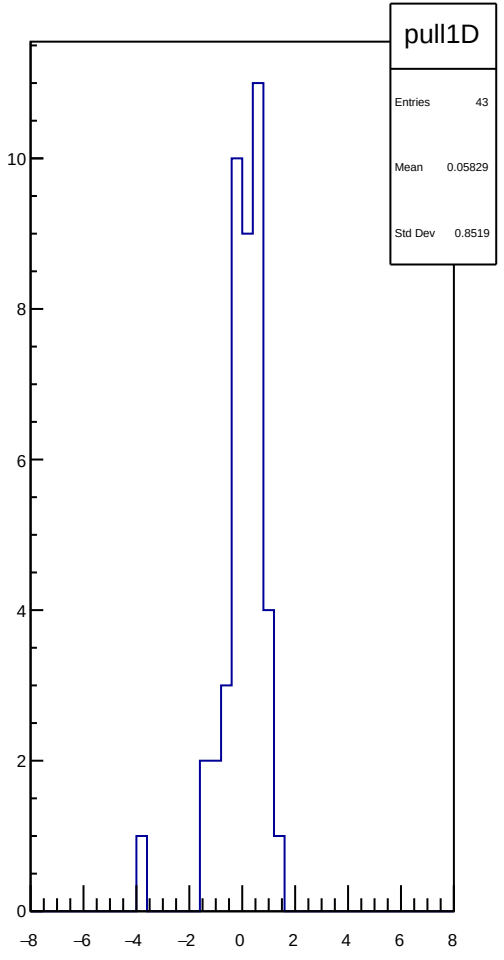

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.88 / 42
p0 22.65 ± 2.054
pull
Entries 43
Mean −75.09
Std Dev 0

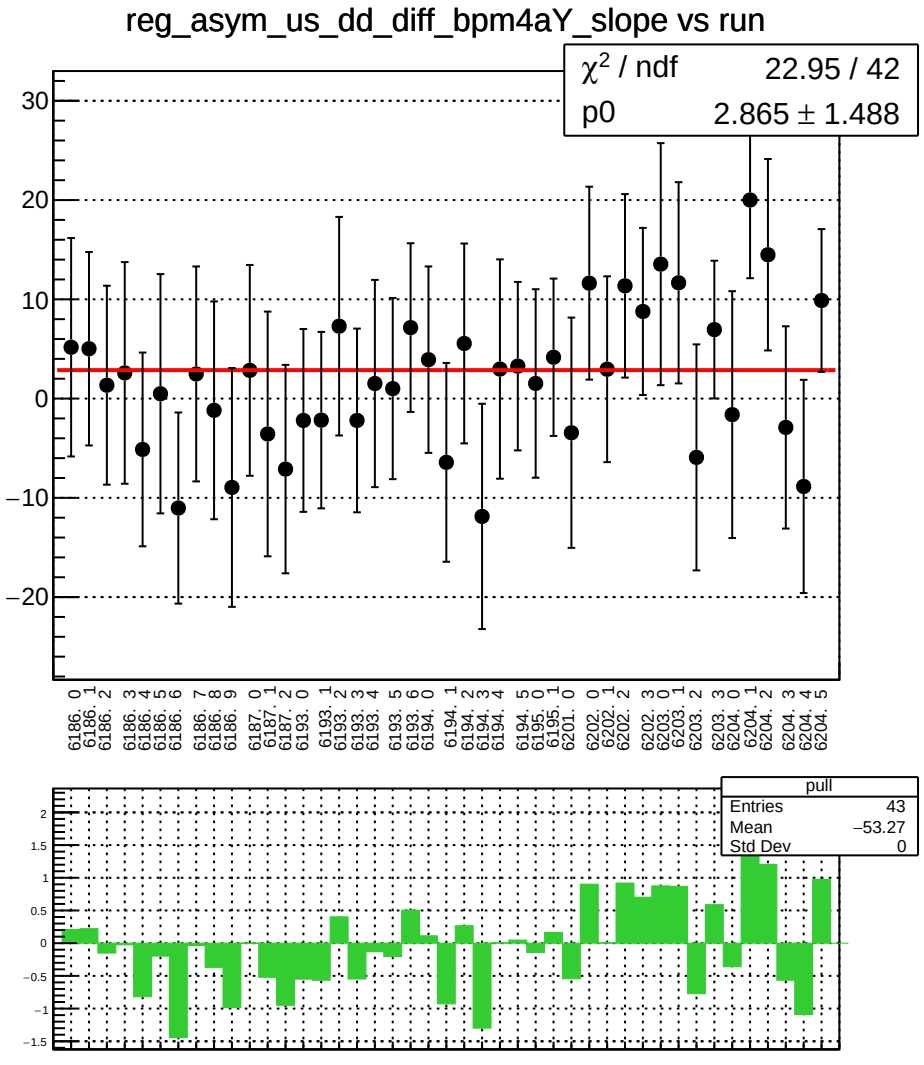

pull1D
Entries 43
Mean −0.01585
Std Dev 0.5881

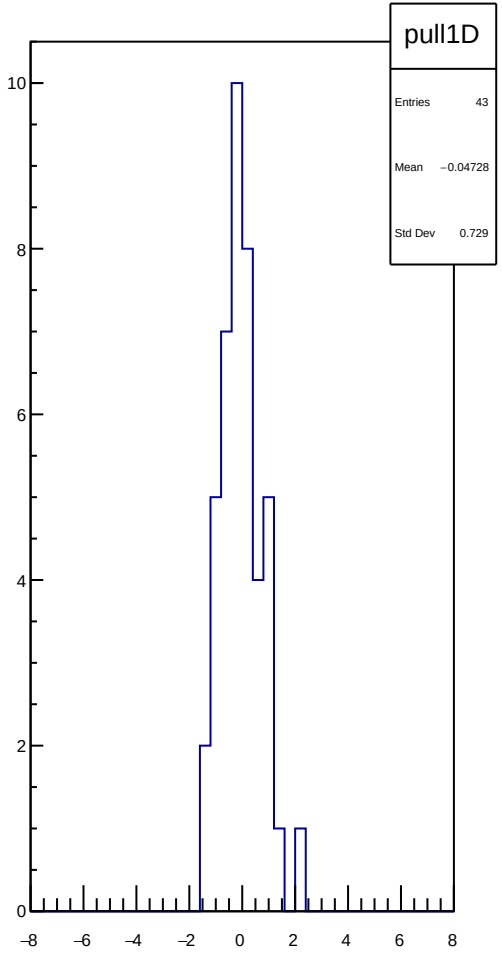

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 25.65 / 42
p0 −37.27 ± 0.1773
−34
−35
−36
−37
−38
−39
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1885
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

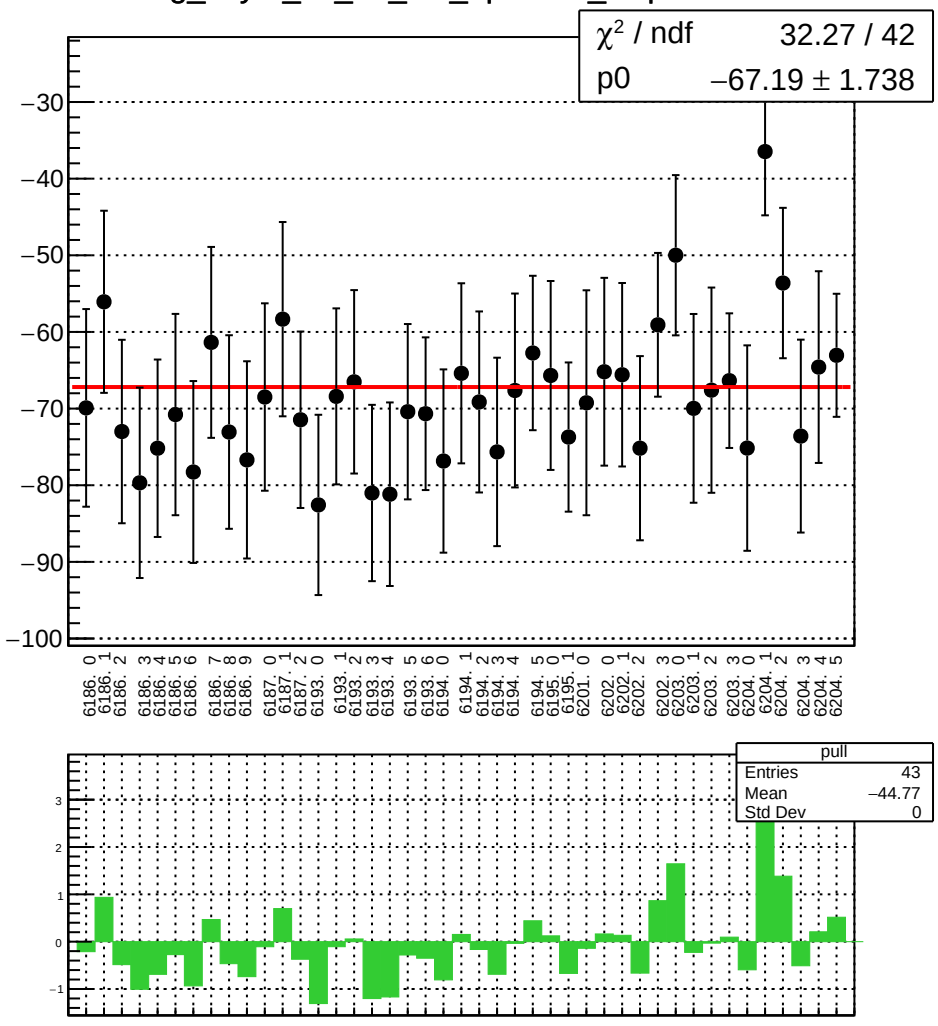

pull1D
Entries 43
Mean −0.002389
Std Dev 0.7723
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

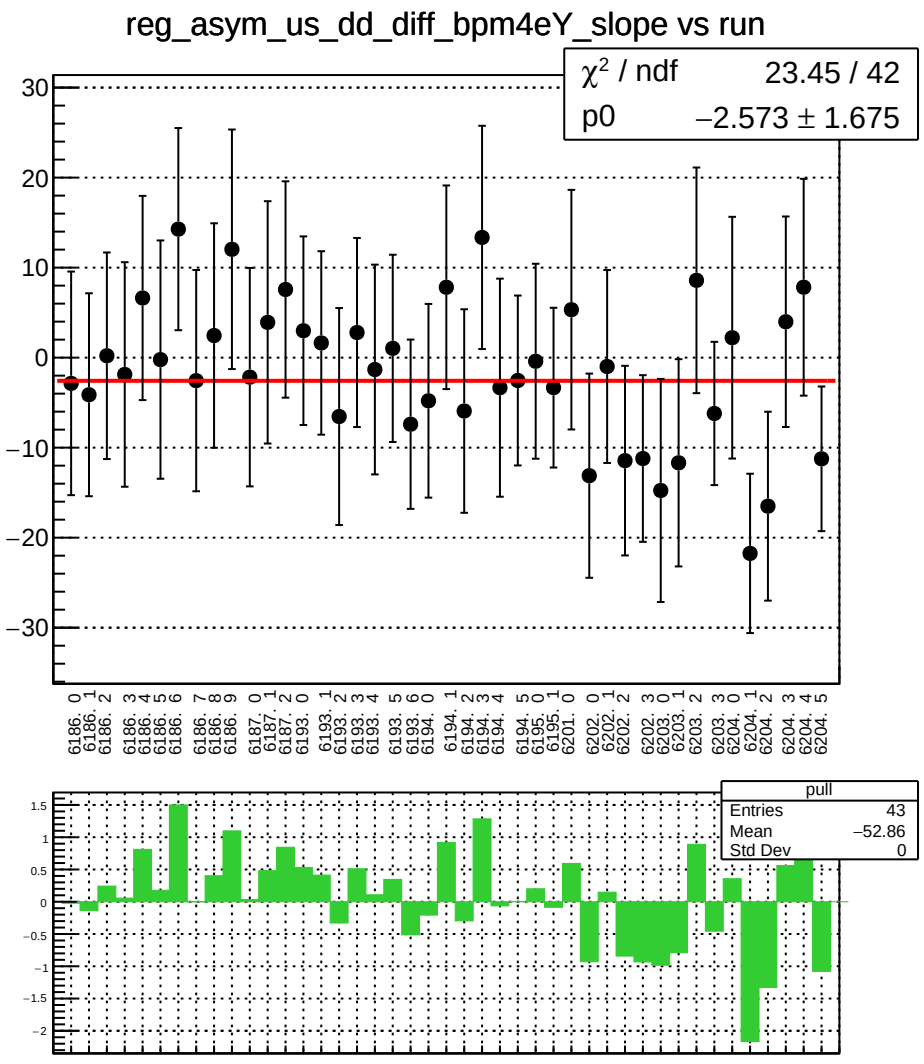

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 31.35 / 42
p0 6.892 ± 1.592
pull
Entries 43
Mean −48.89
Std Dev 0

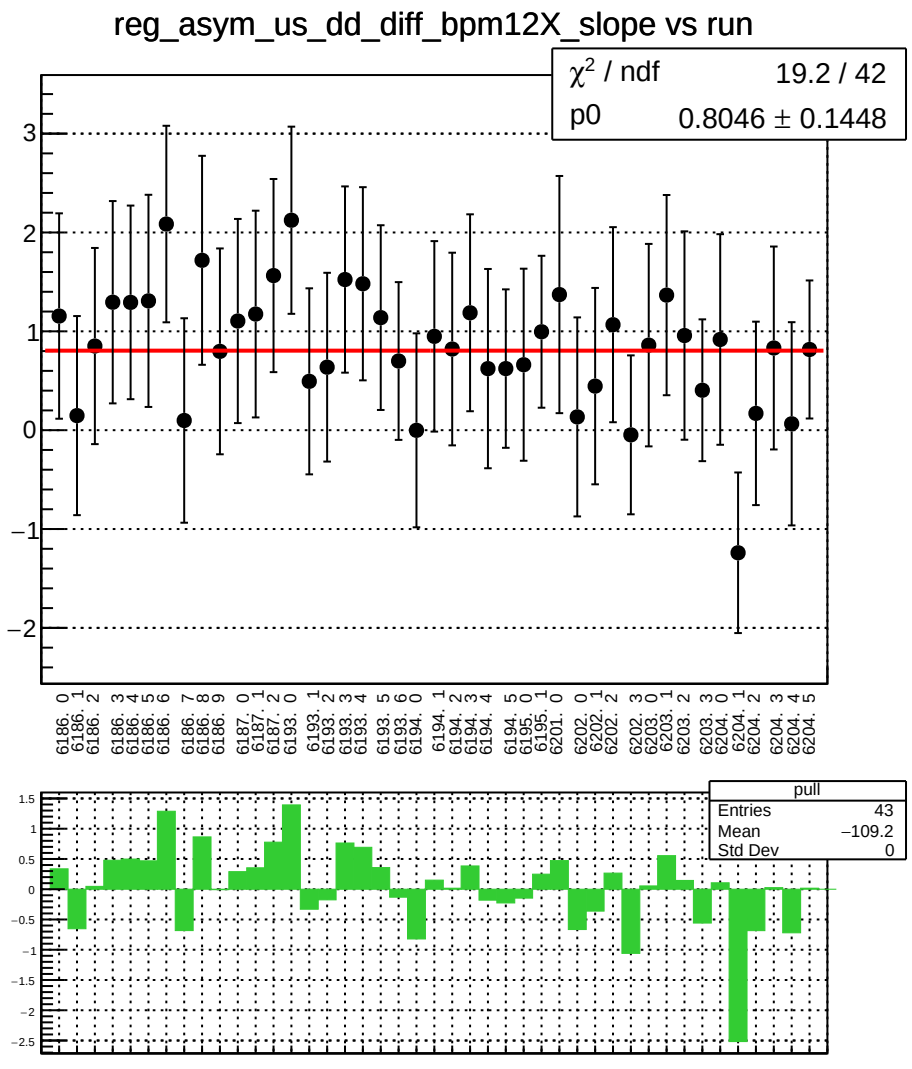

pull1D
Entries 43
Mean 0.05829
Std Dev 0.8519

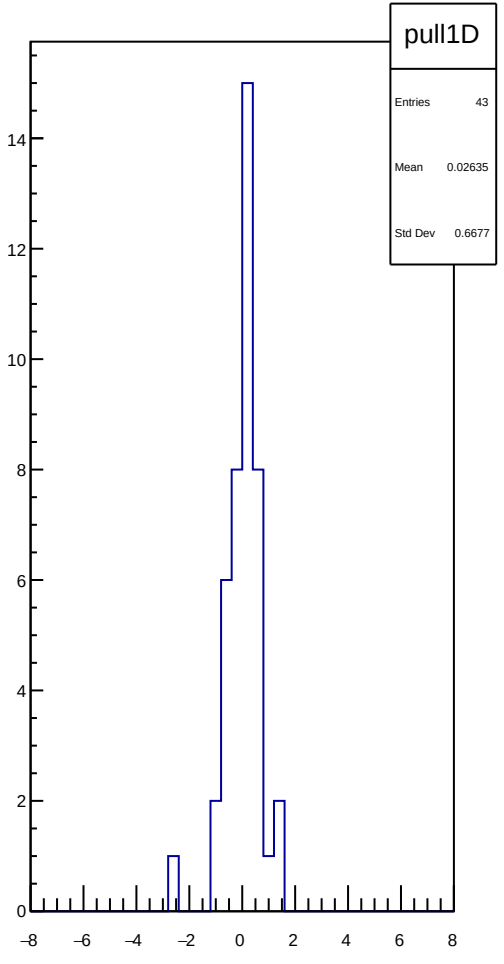

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.95 / 42
p0 2.865 ± 1.488
30
20
10
0
−10
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −53.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

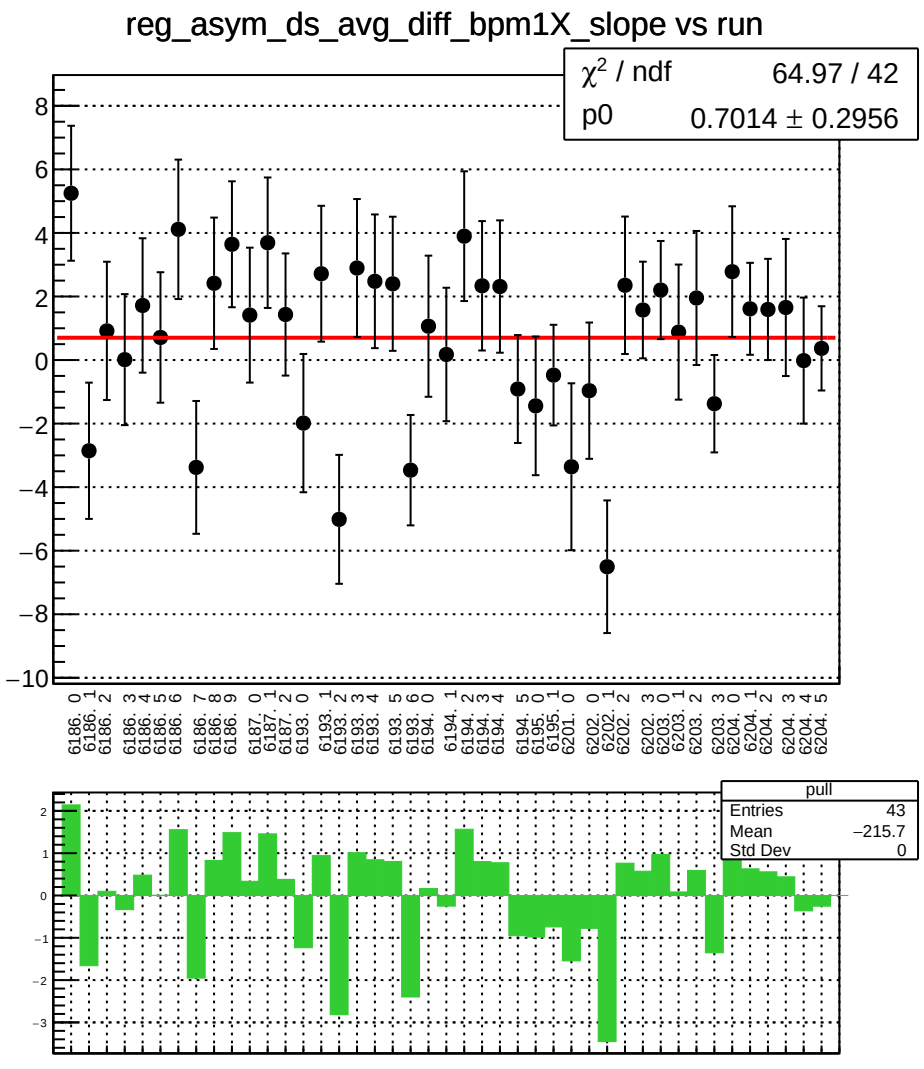

pull1D
Entries 43
Mean −0.04728
Std Dev 0.729
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

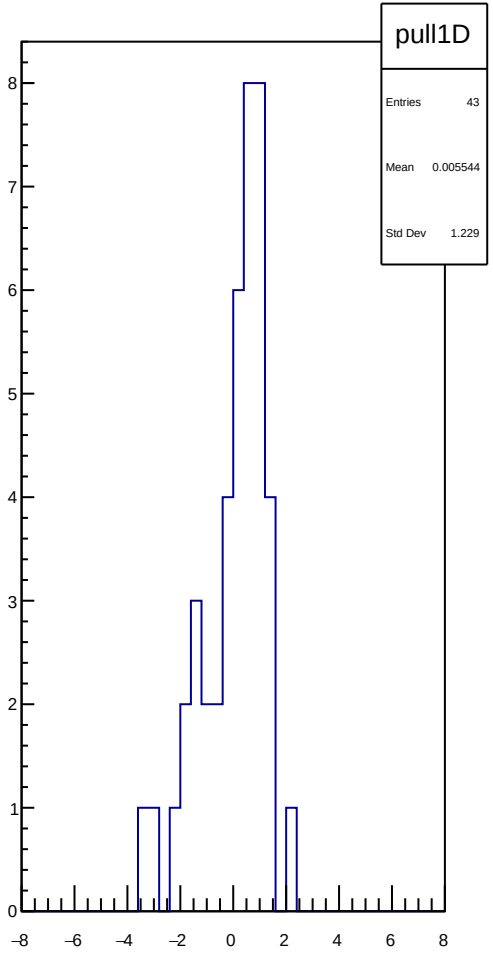

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.27 / 42
p0 −67.19 ± 1.738
pull
Entries 43
Mean −44.77
Std Dev 0
pull1D
Entries 43
Mean −0.06152
Std Dev 0.8641

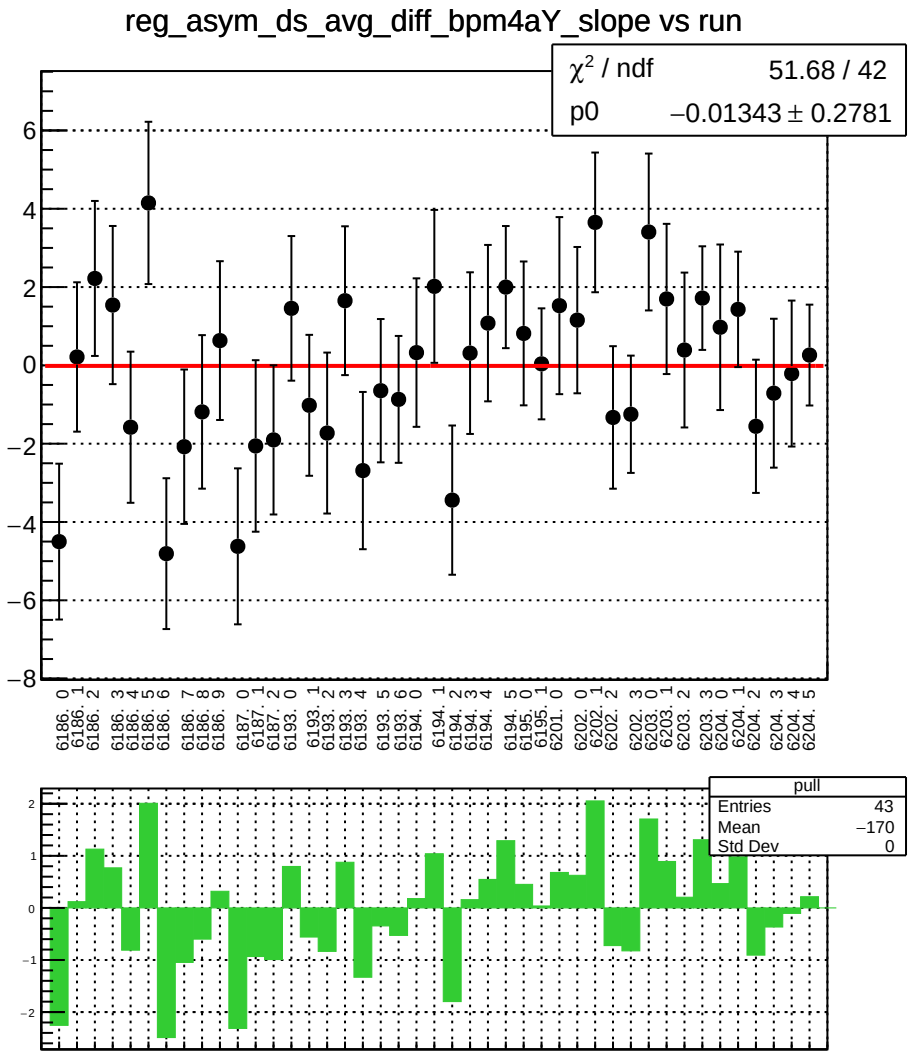

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.45 / 42
p0 −2.573 ± 1.675
30
20
10
0
−10
−20
−30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −52.86
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.05159
Std Dev 0.7366
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

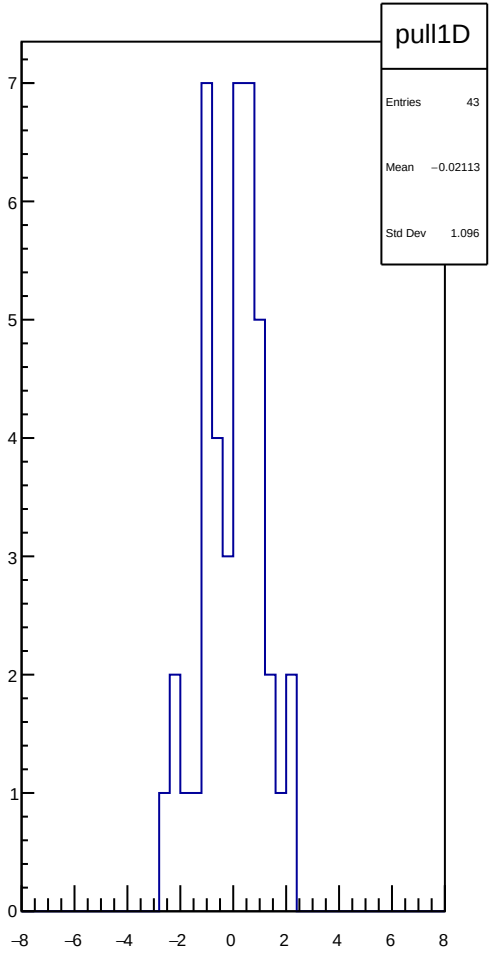

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 19.2 / 42
p0 0.8046 ± 0.1448
pull
Entries 43
Mean −109.2
Std Dev 0

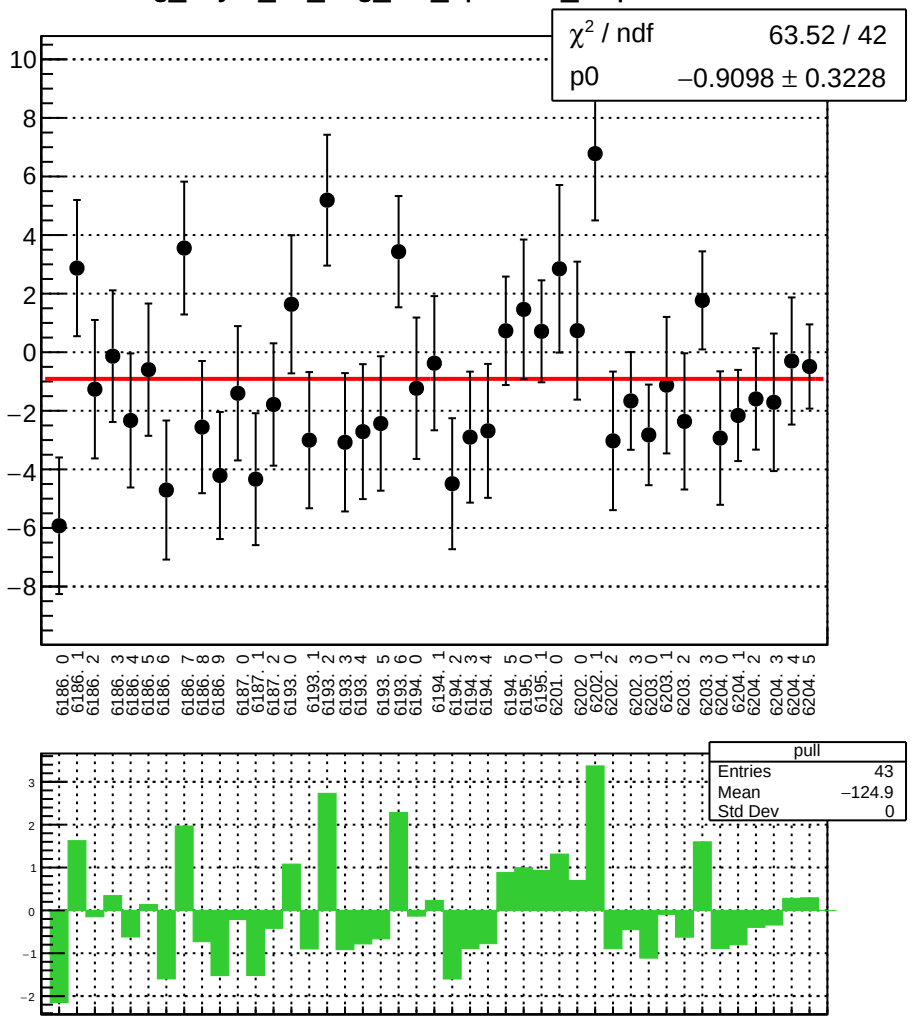

pull1D
Entries 43
Mean 0.02635
Std Dev 0.6677

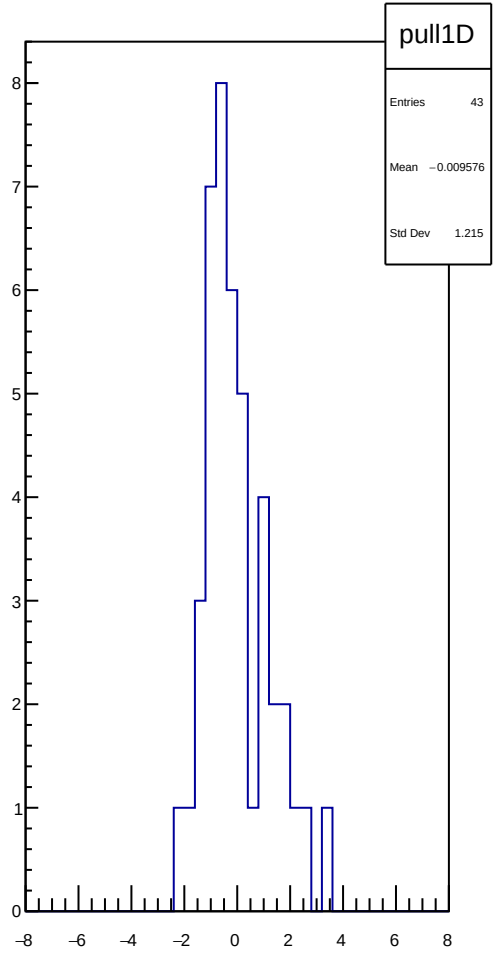

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 64.97 / 42
p0 0.7014 ± 0.2956
pull
Entries 43
Mean −215.7
Std Dev 0

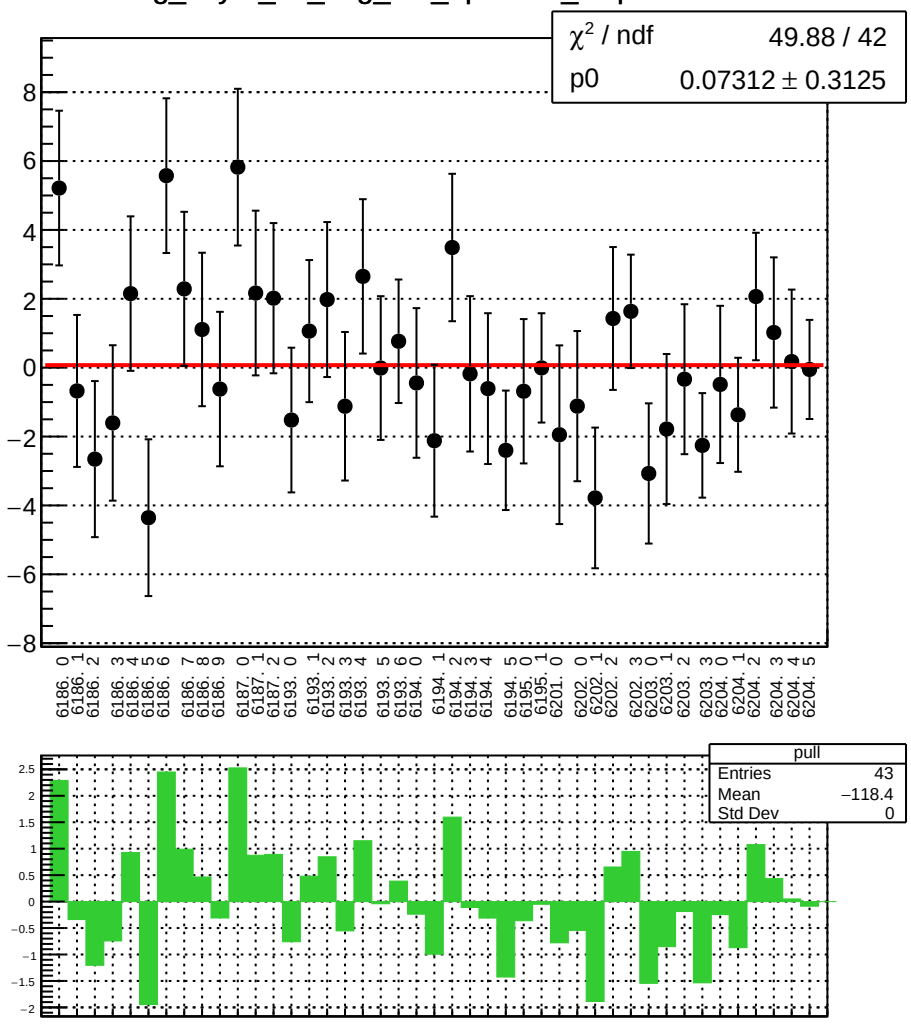

pull1D
Entries 43
Mean 0.005544
Std Dev 1.229

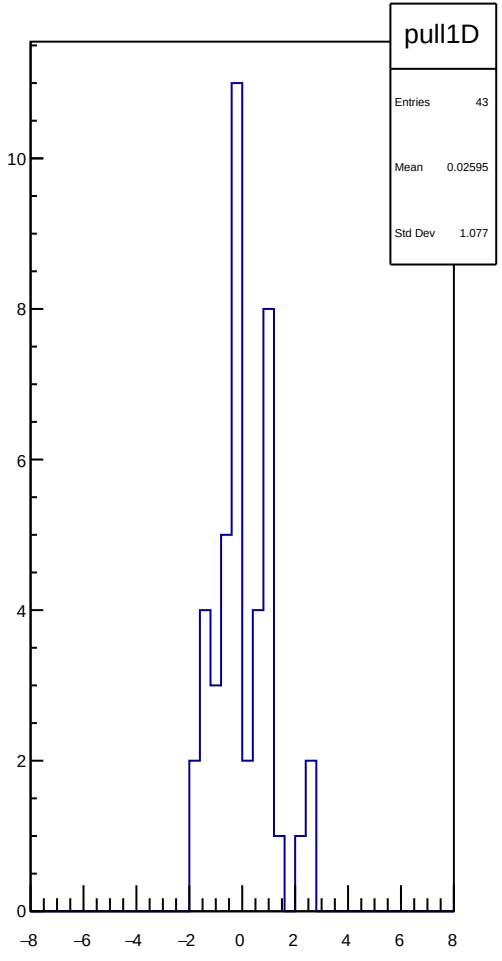

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 51.68 / 42
p0 −0.01343 ± 0.2781
pull
Entries 43
Mean −170
Std Dev 0

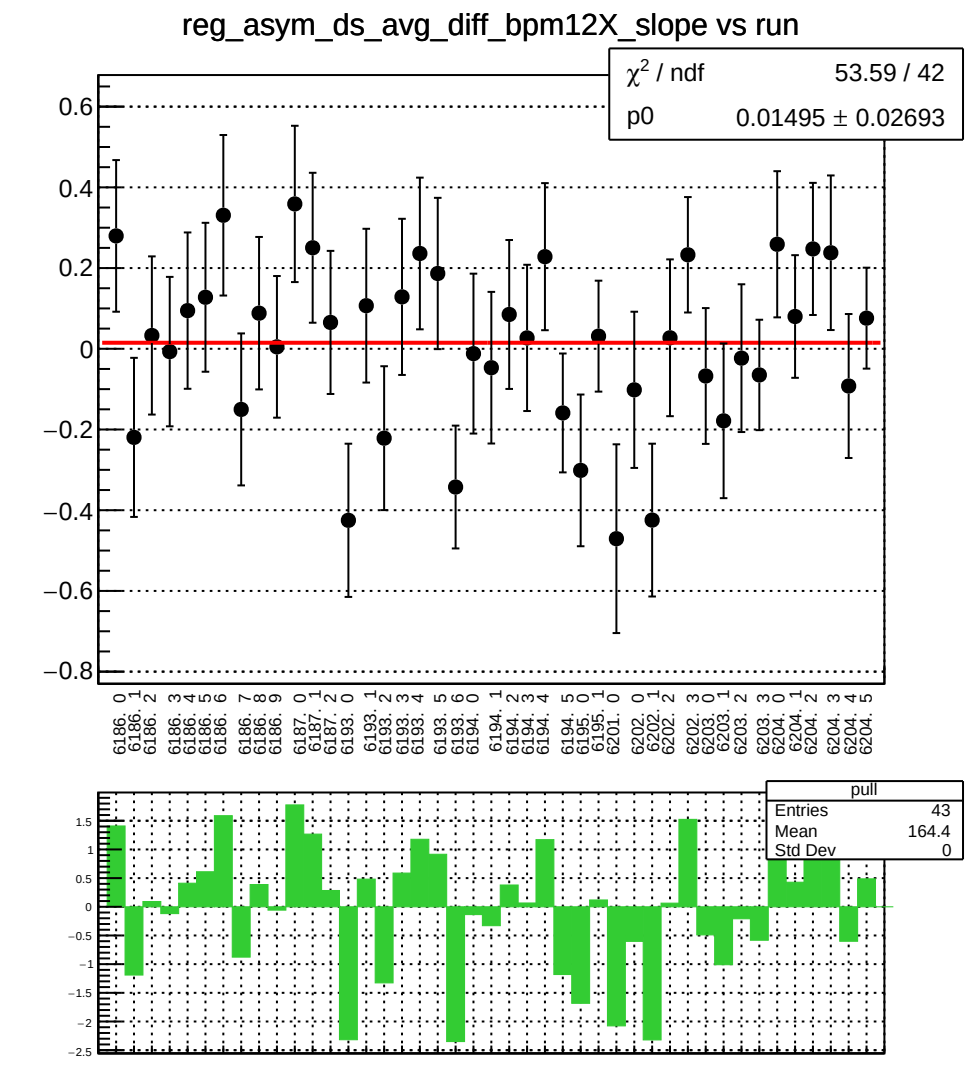

pull1D
Entries 43
Mean −0.02113
Std Dev 1.096

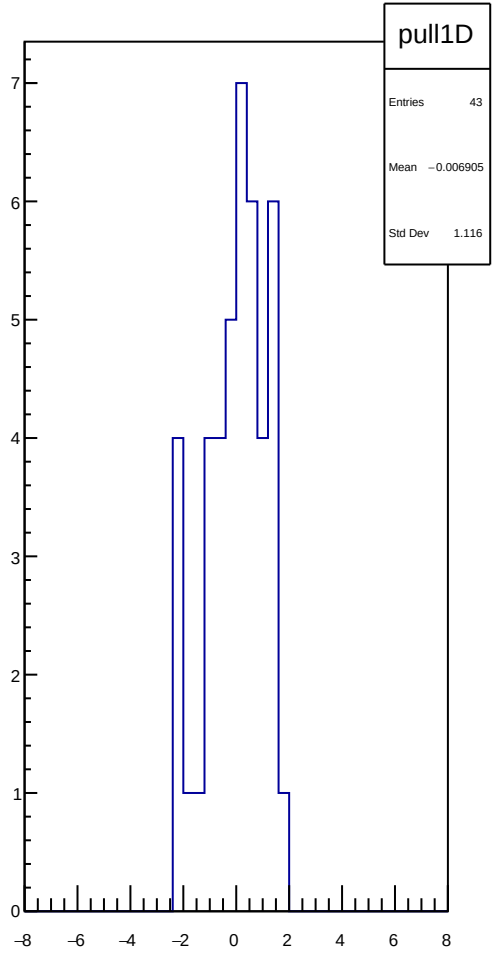

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.52 / 42
p0 −0.9098 ± 0.3228
pull
Entries 43
Mean −124.9
Std Dev 0

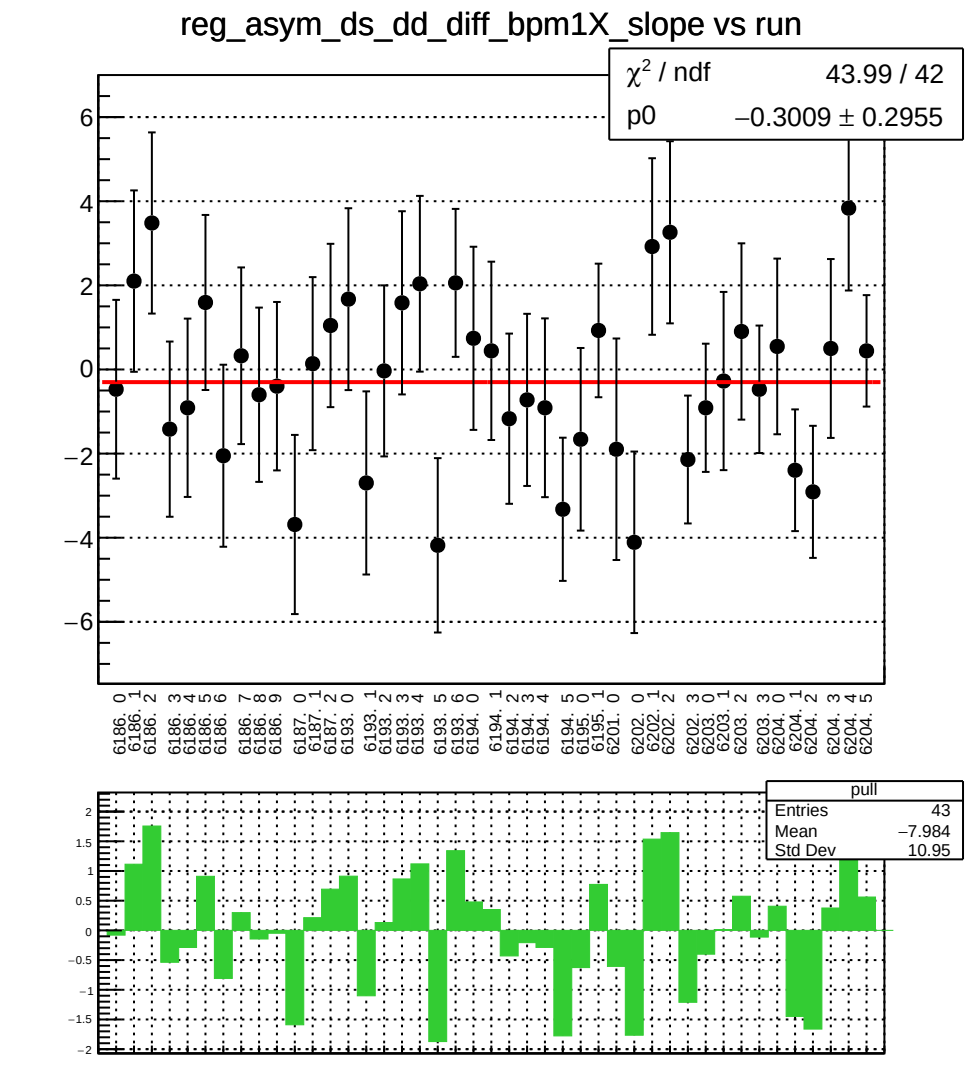

pull1D
Entries 43
Mean −0.009576
Std Dev 1.215

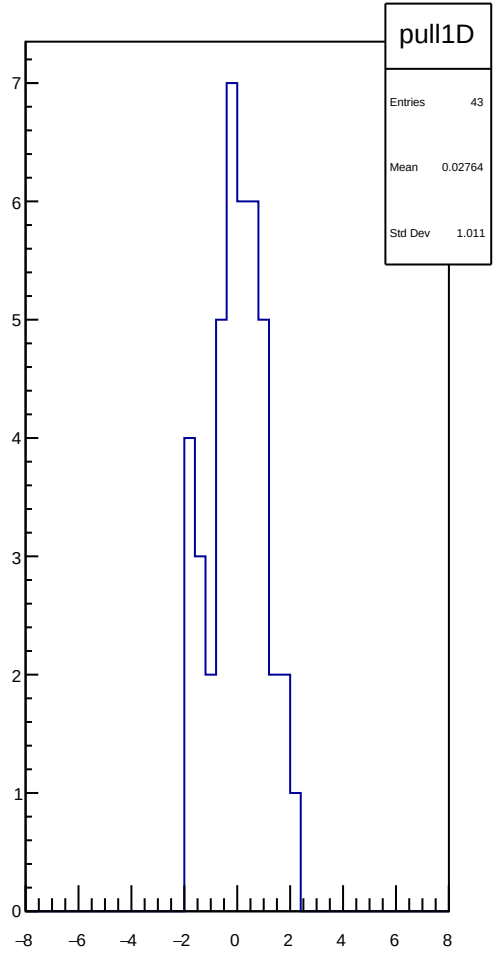

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.88 / 42
p0 0.07312 ± 0.3125
pull
Entries 43
Mean −118.4
Std Dev 0

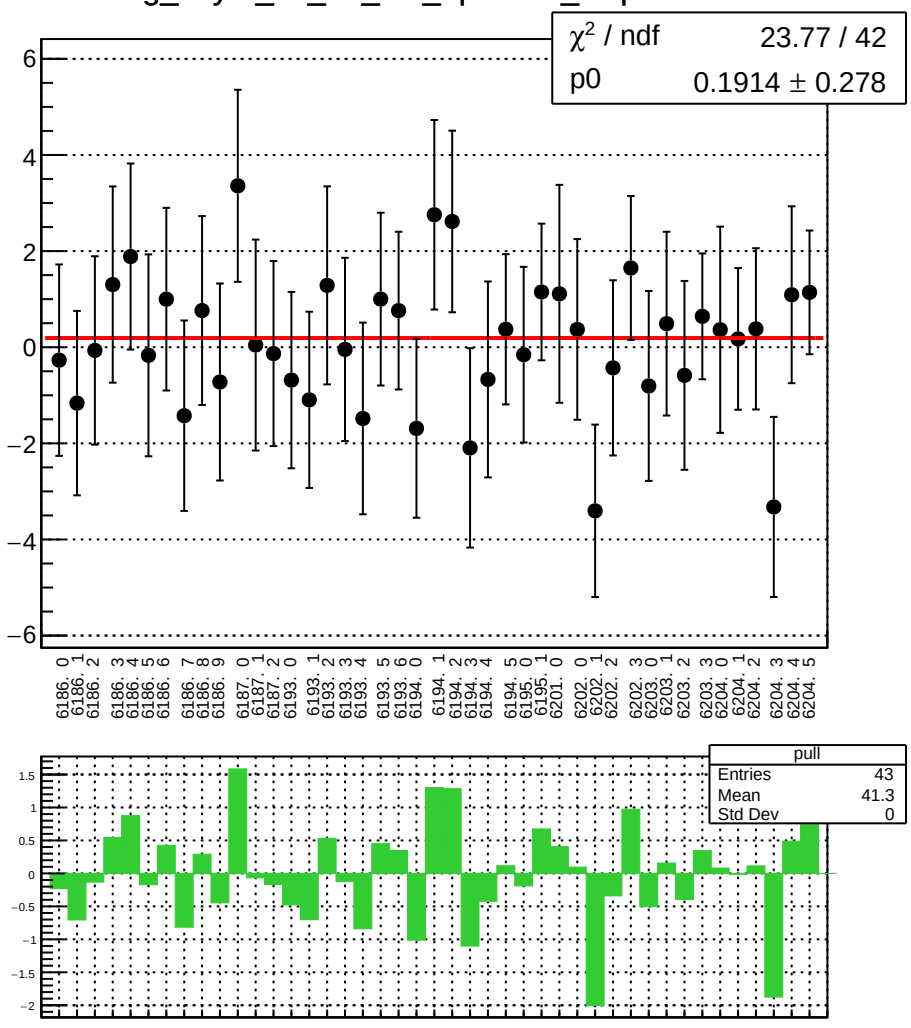

pull1D
Entries 43
Mean 0.02595
Std Dev 1.077

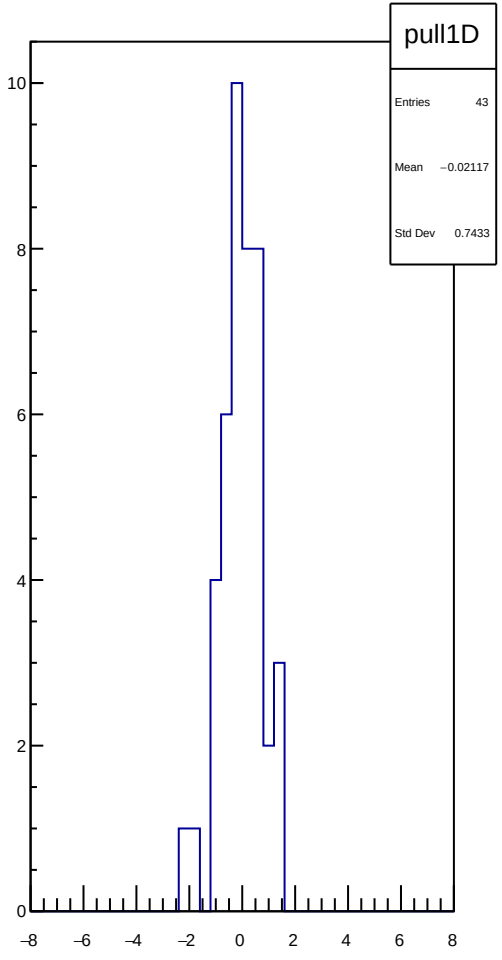

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 53.59 / 42
p0 0.01495 ± 0.02693
pull
Entries 43
Mean 164.4
Std Dev 0

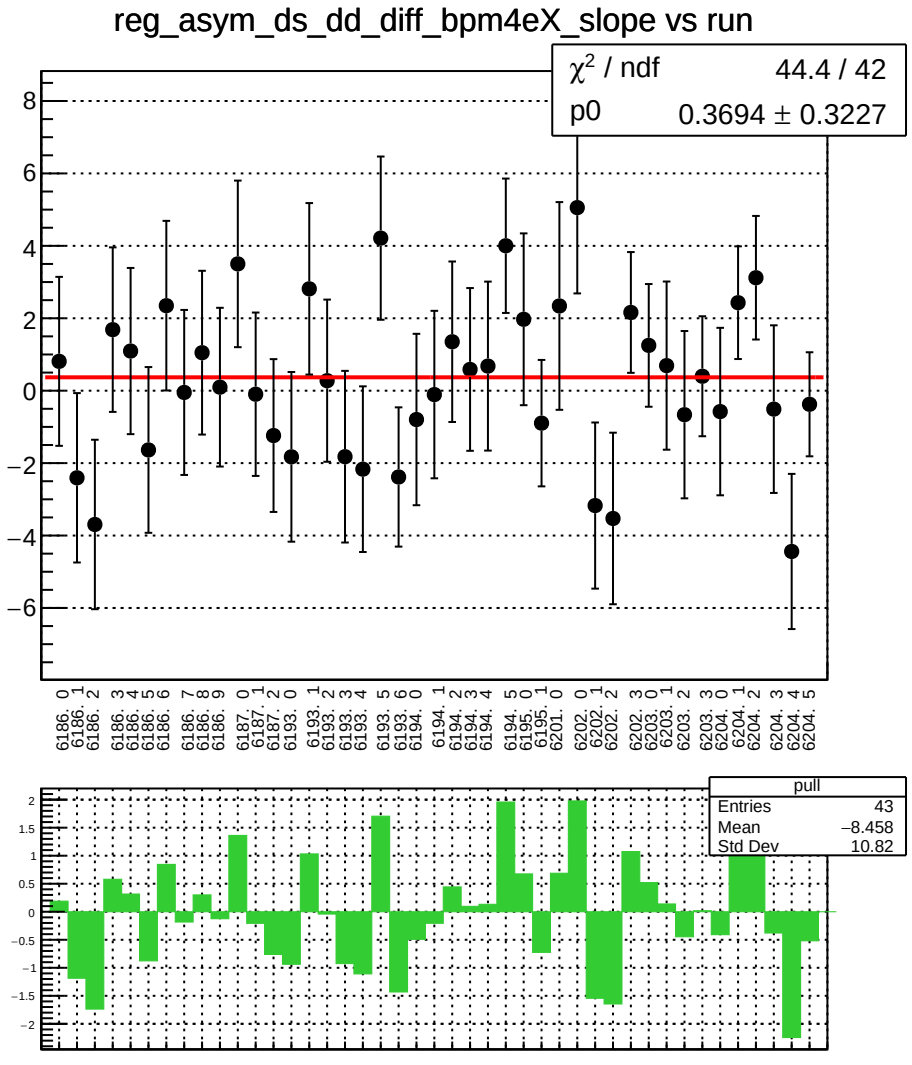

pull1D
Entries 43
Mean −0.006905
Std Dev 1.116

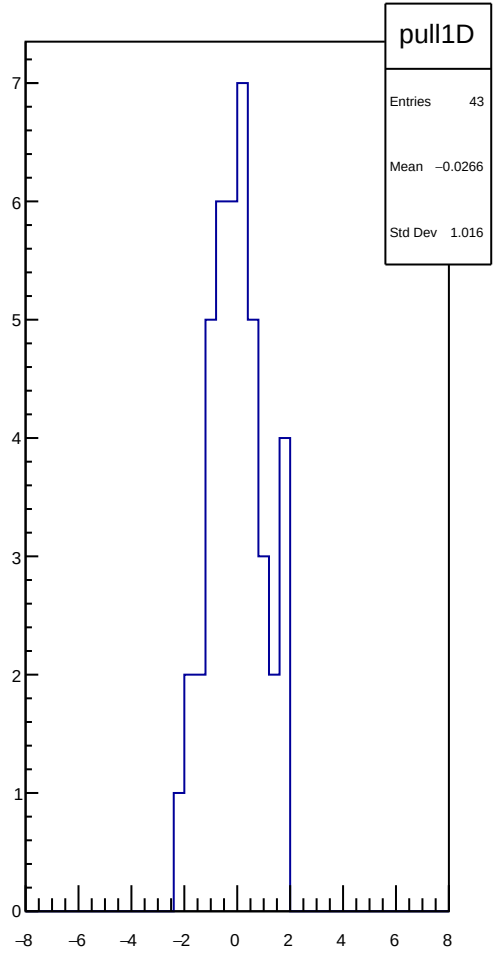

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 43.99 / 42
p0 −0.3009 ± 0.2955
pull
Entries 43
Mean −7.984
Std Dev 10.95

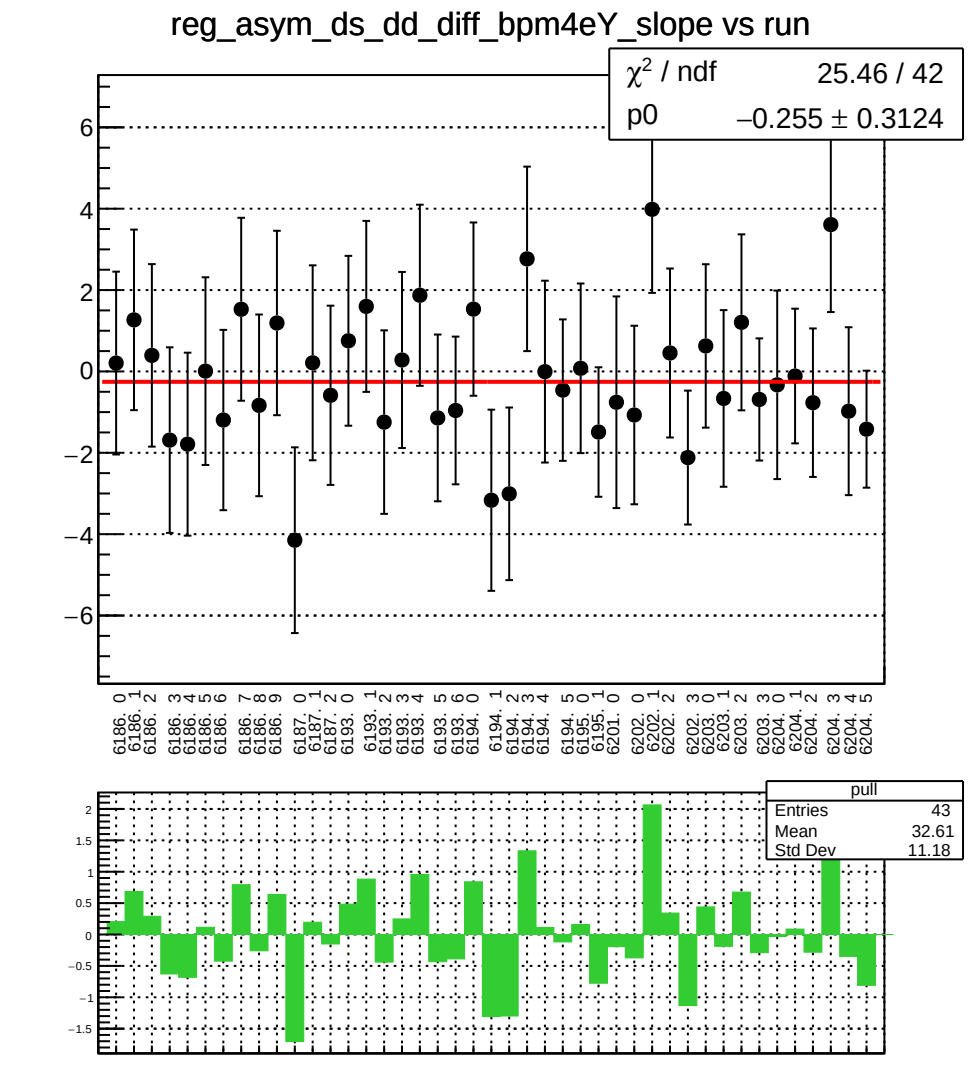

pull1D
Entries 43
Mean 0.02764
Std Dev 1.011

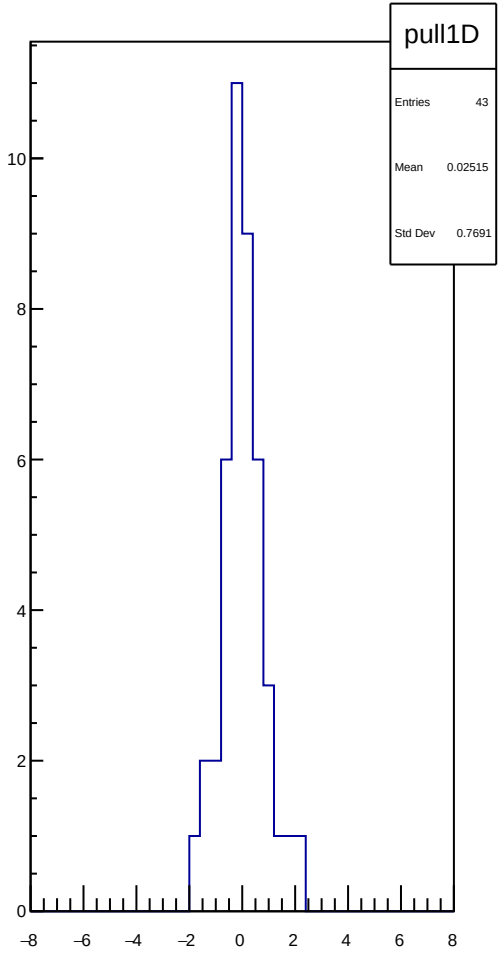

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.77 / 42
p0 0.1914 ± 0.278
pull
Entries 43
Mean 41.3
Std Dev 0

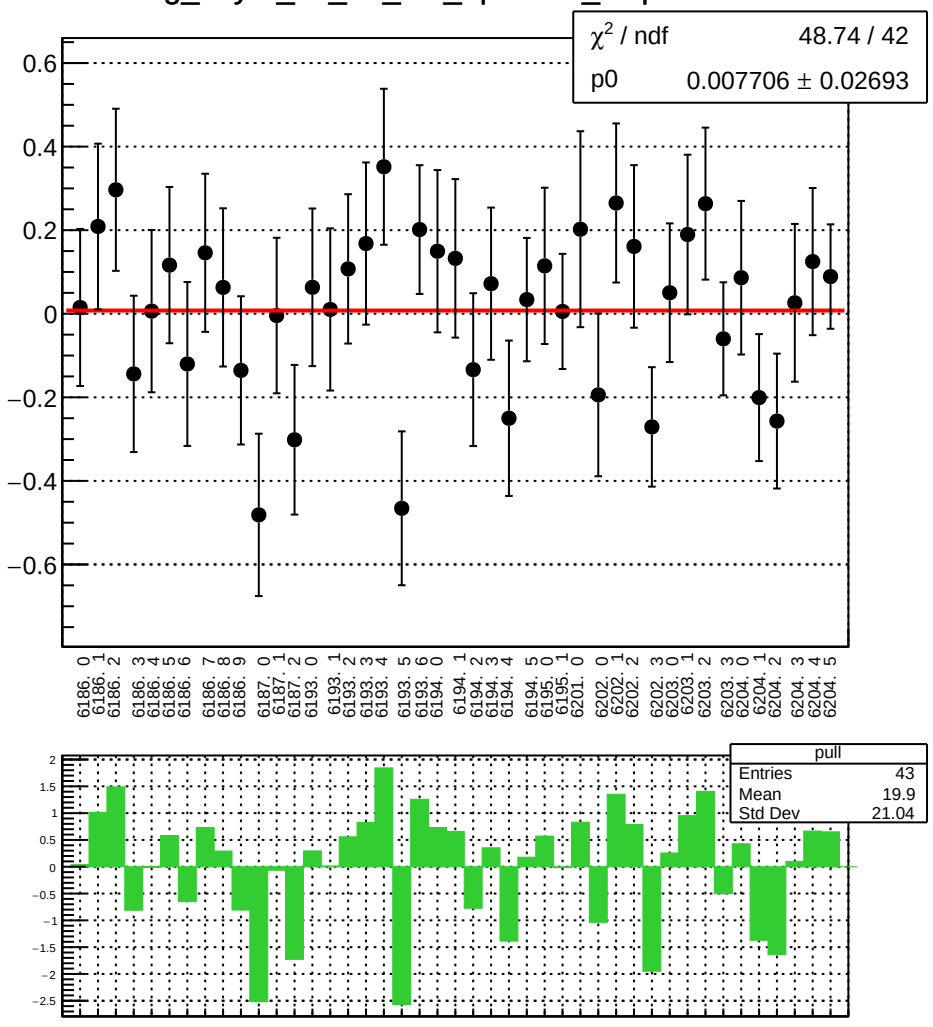

pull1D
Entries 43
Mean −0.02117
Std Dev 0.7433

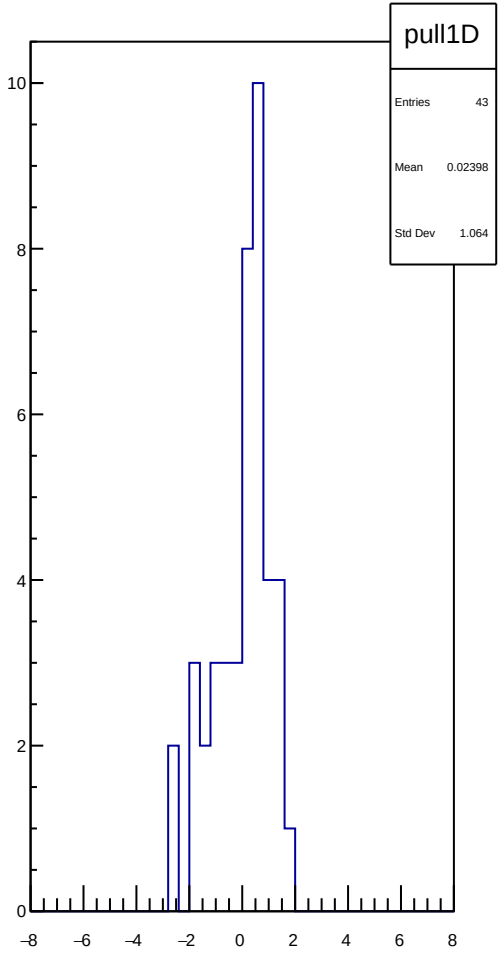

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.4 / 42
p0 0.3694 ± 0.3227
pull
Entries 43
Mean −8.458
Std Dev 10.82

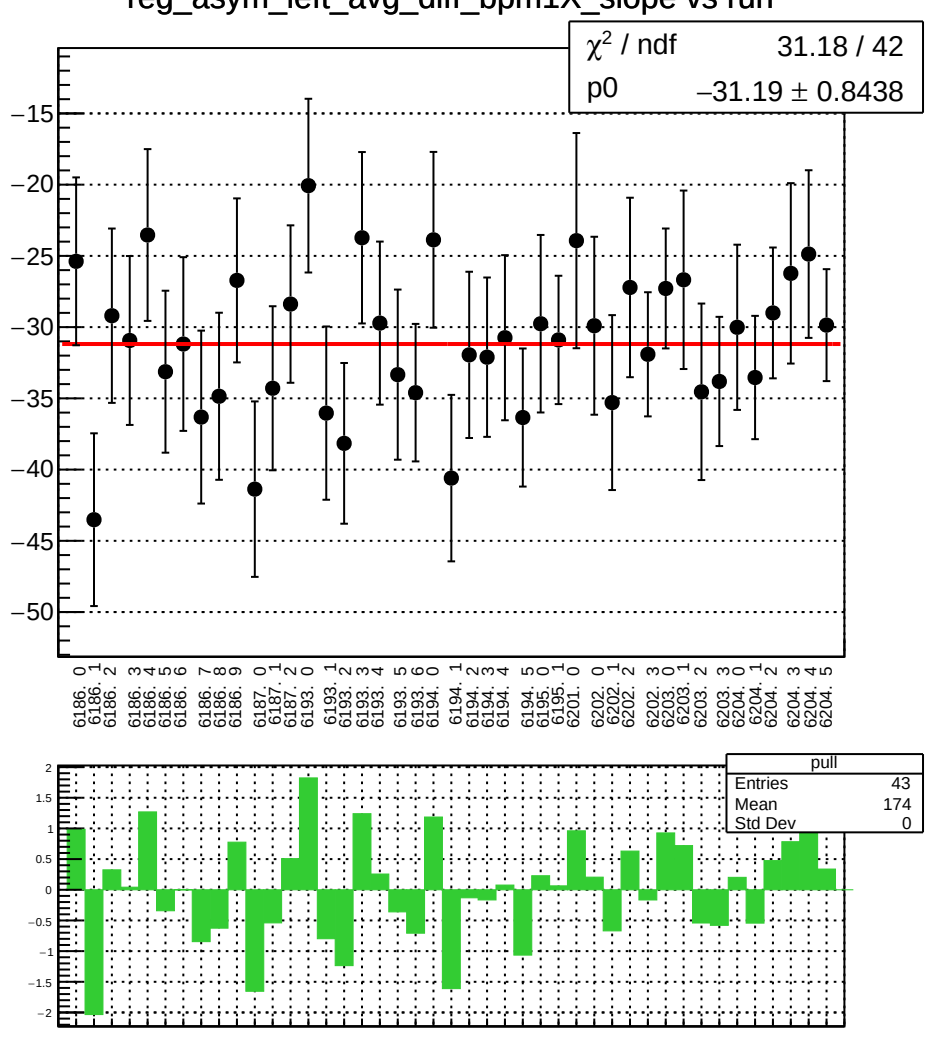

pull1D
Entries 43
Mean −0.0266
Std Dev 1.016

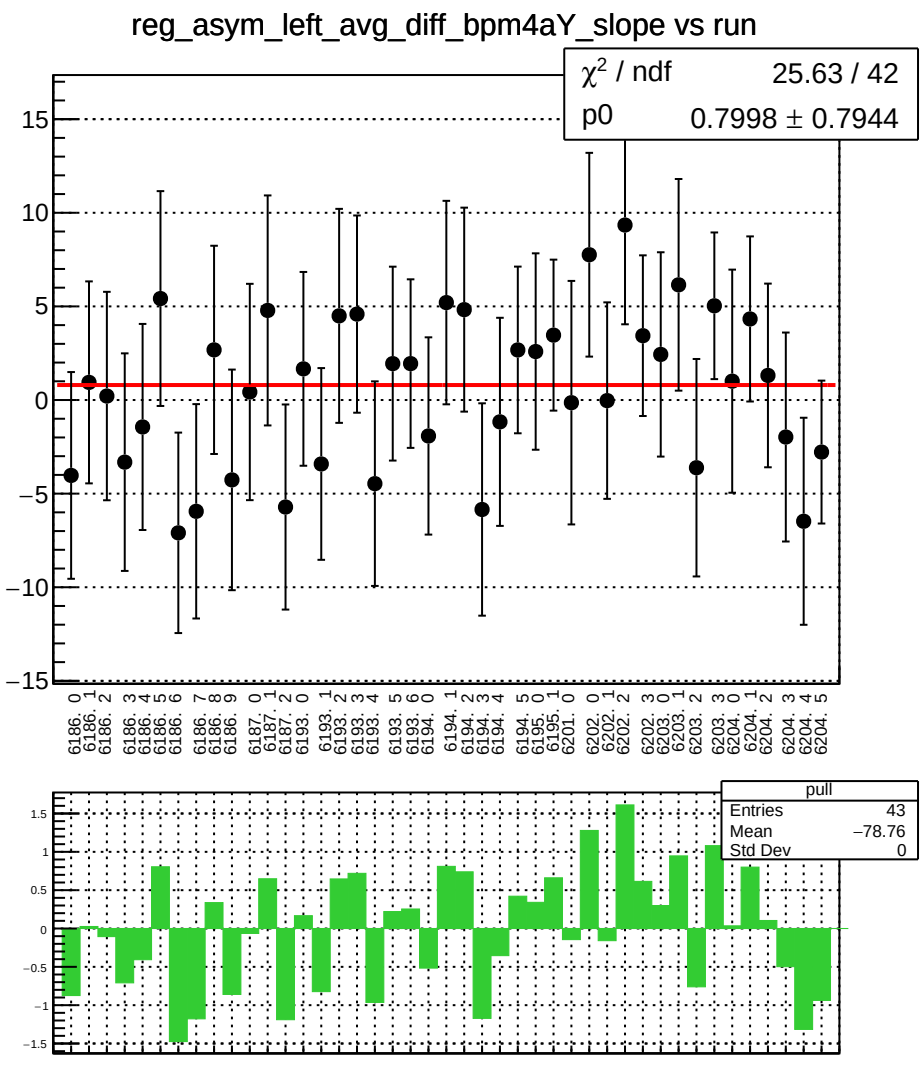

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.46 / 42
p0 −0.255 ± 0.3124
pull
Entries 43
Mean 32.61
Std Dev 11.18

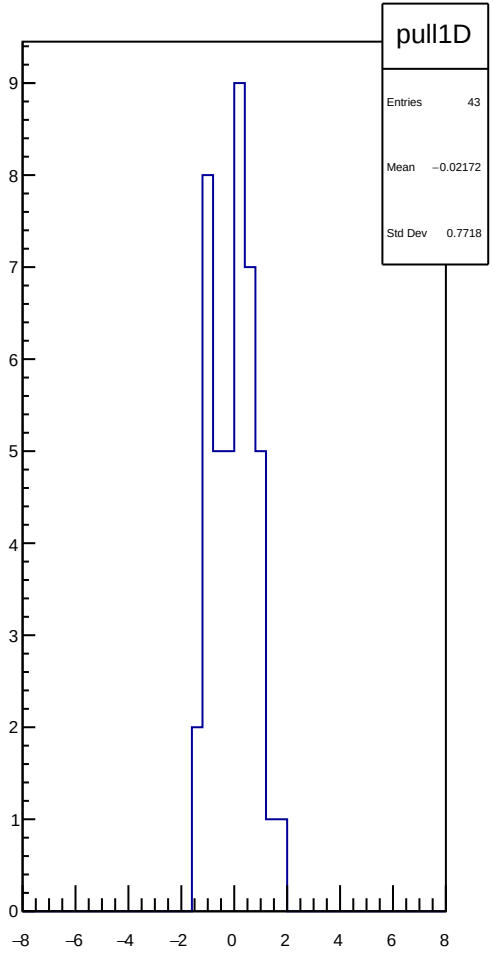

pull1D
Entries 43
Mean 0.02515
Std Dev 0.7691

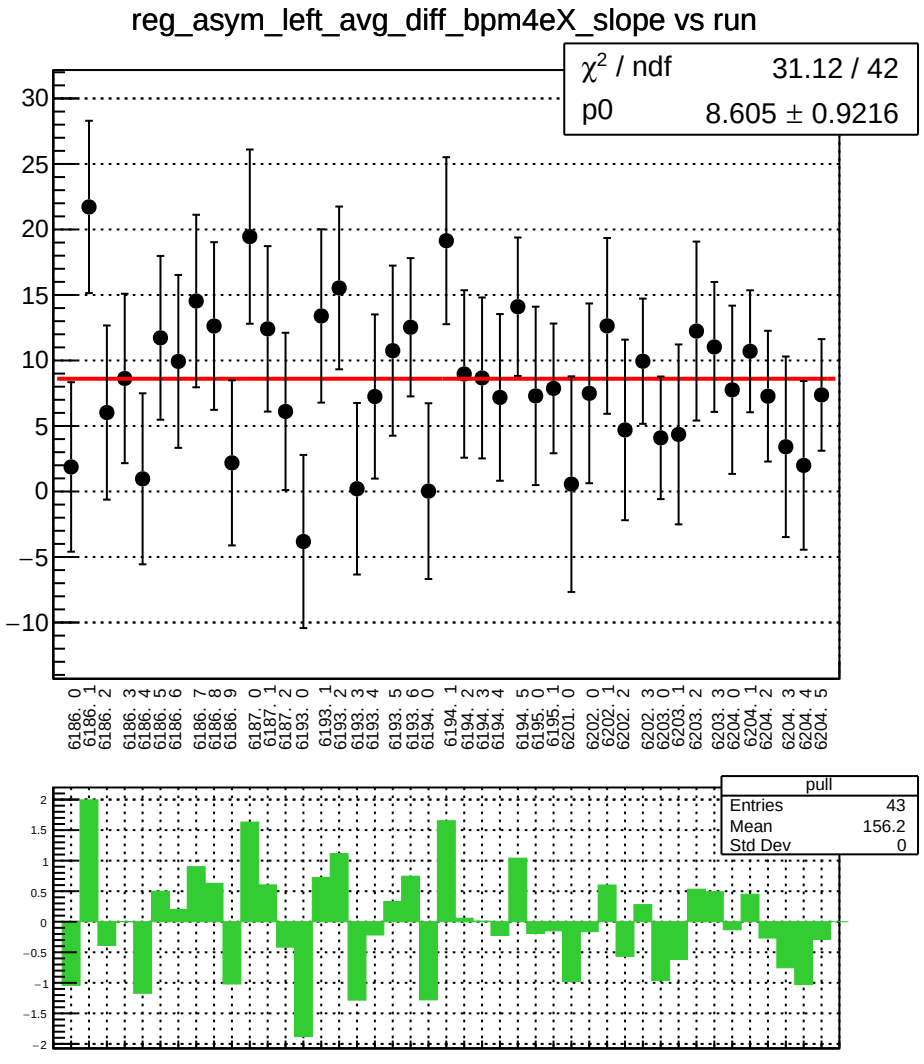

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 48.74 / 42
p0 0.007706 ± 0.02693
pull
Entries 43
Mean 19.9
Std Dev 21.04

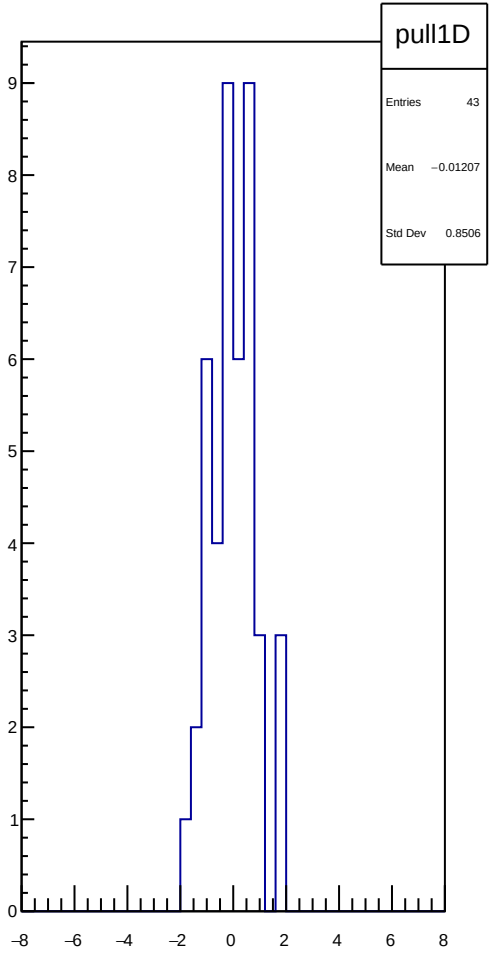

pull1D
Entries 43
Mean 0.02398
Std Dev 1.064

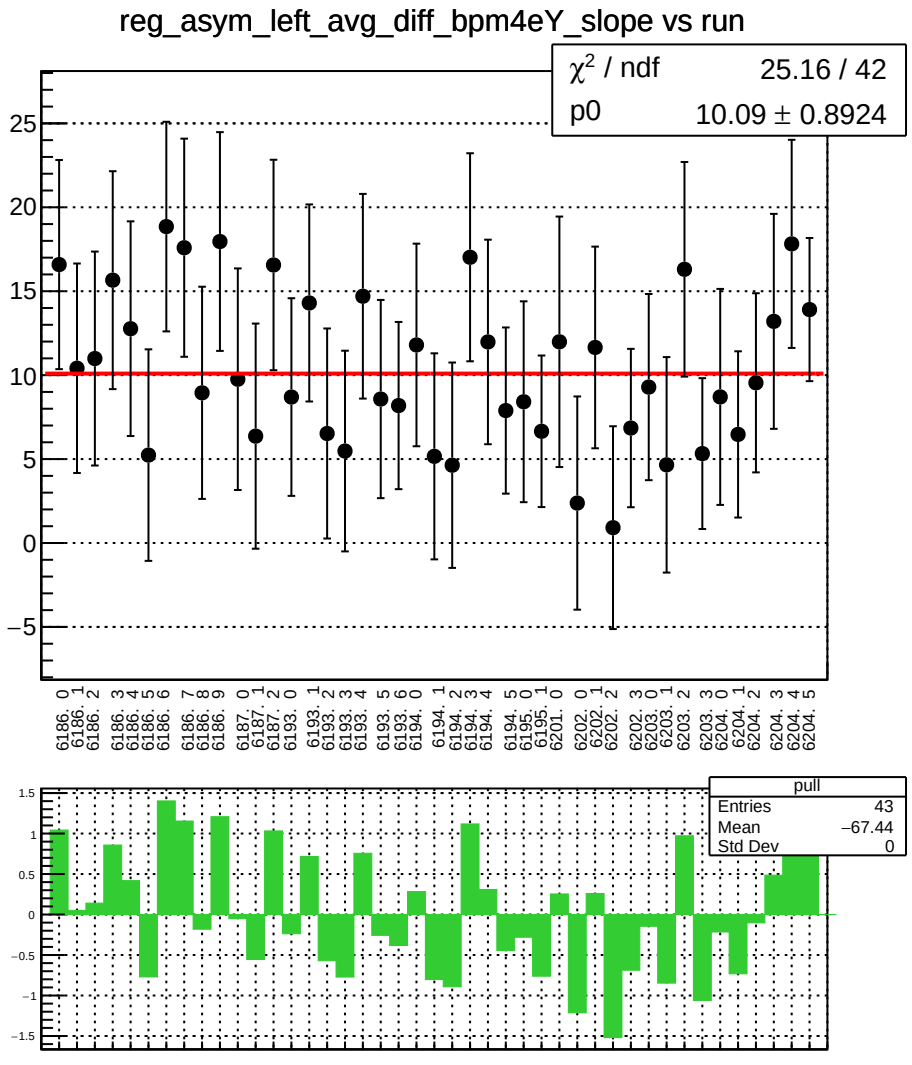

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 31.18 / 42
p0 −31.19 ± 0.8438
pull
Entries 43
Mean 174
Std Dev 0
pull1D
Entries 43
Mean 0.01116
Std Dev 0.8515

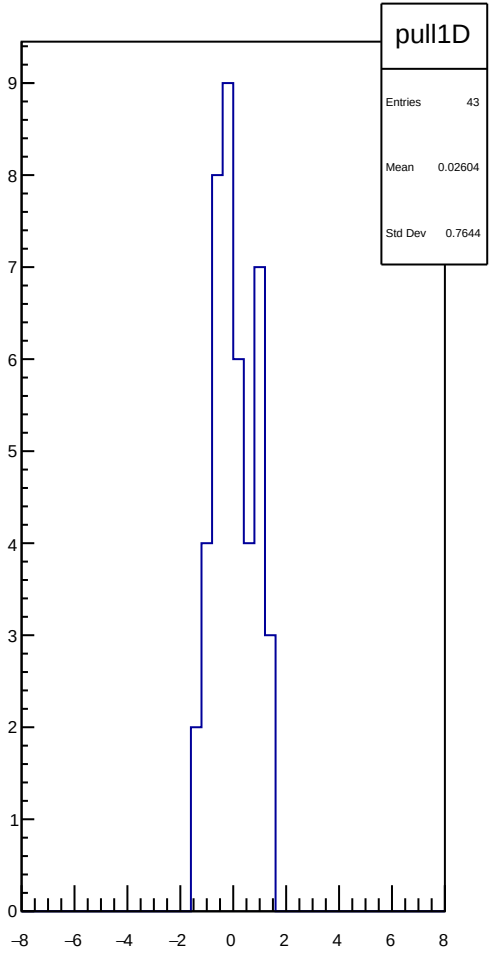

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.63 / 42
p0 0.7998 ± 0.7944
pull
Entries 43
Mean −78.76
Std Dev 0

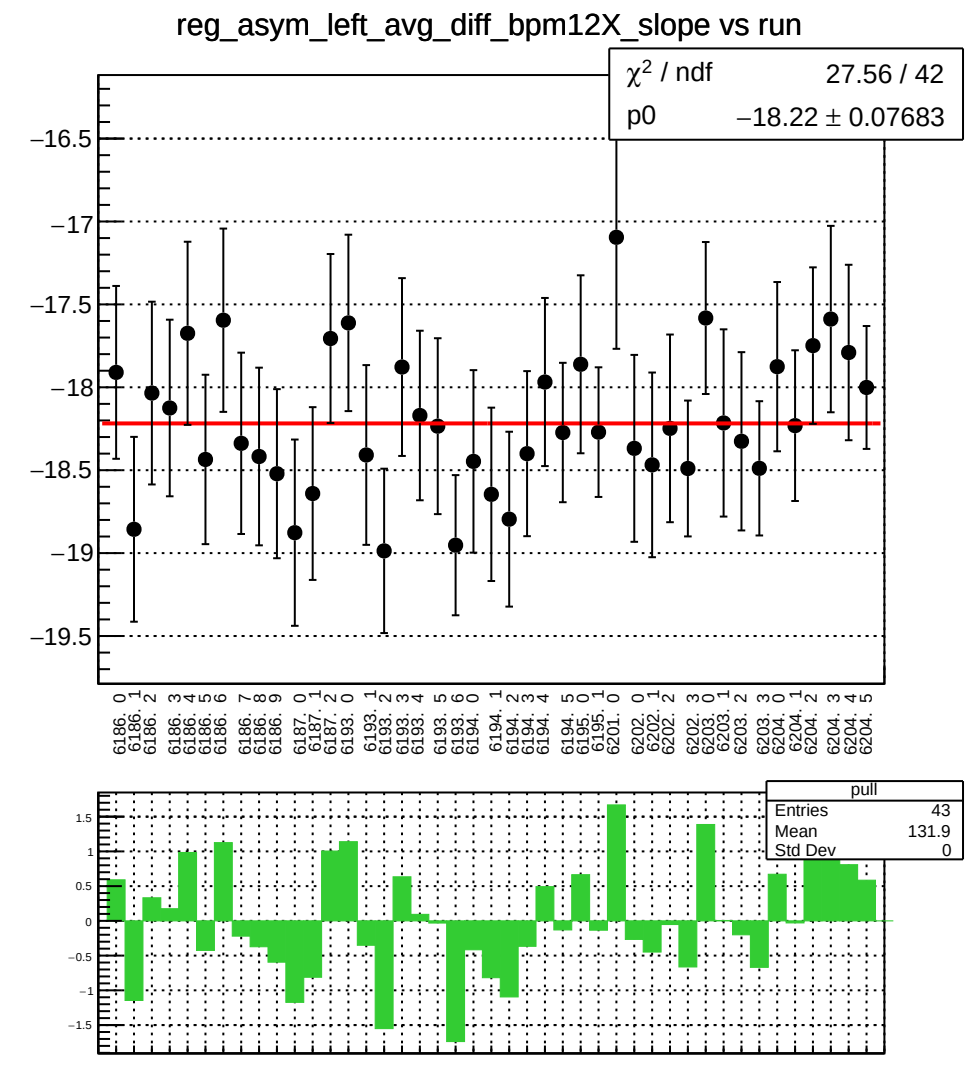

pull1D
Entries 43
Mean −0.02172
Std Dev 0.7718

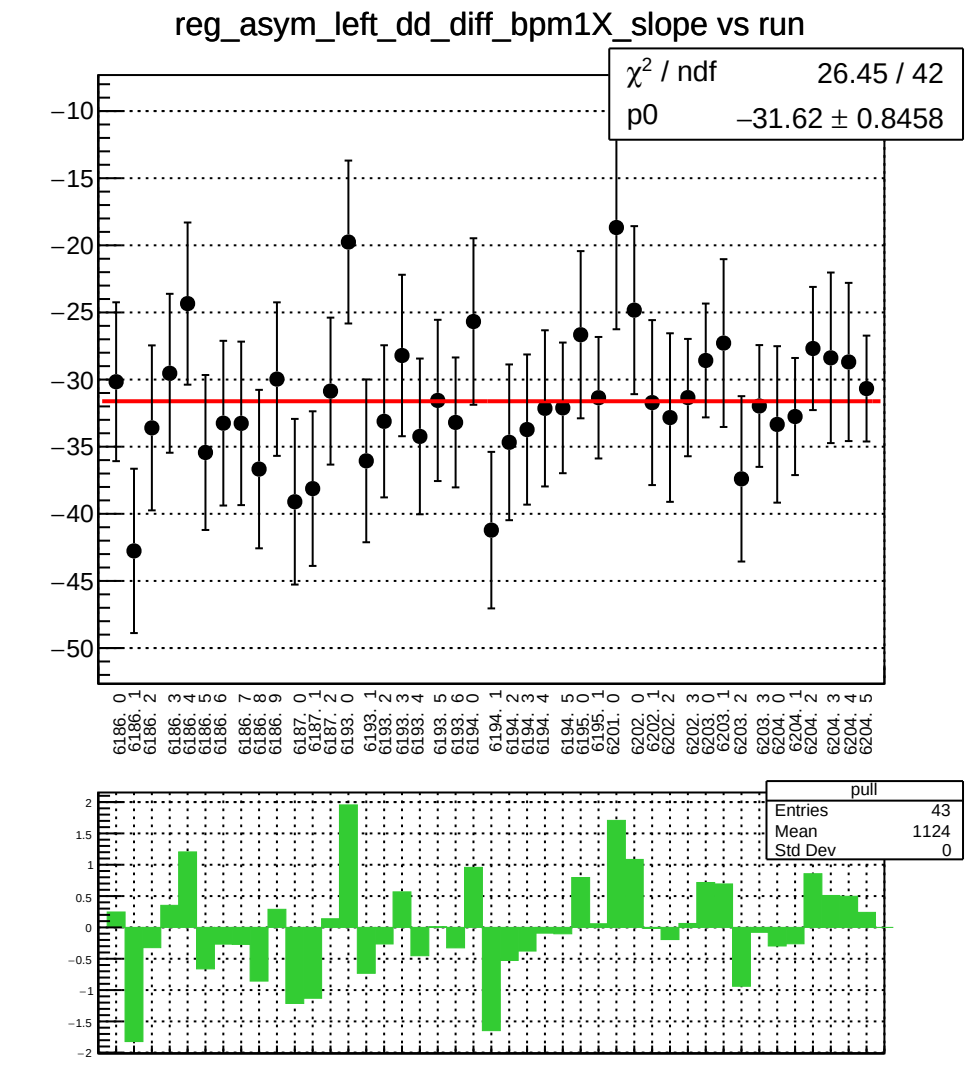

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.12 / 42
p0 8.605 ± 0.9216
pull
Entries 43
Mean 156.2
Std Dev 0

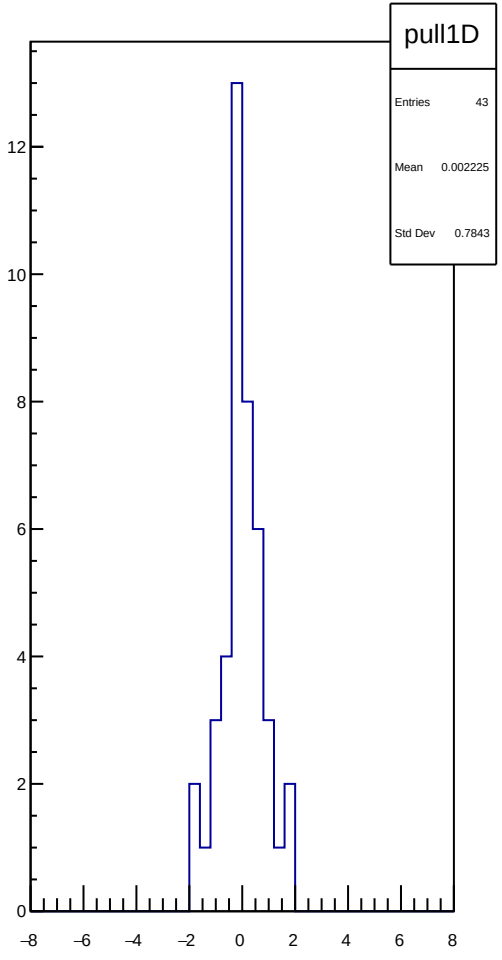

pull1D
Entries 43
Mean −0.01207
Std Dev 0.8506

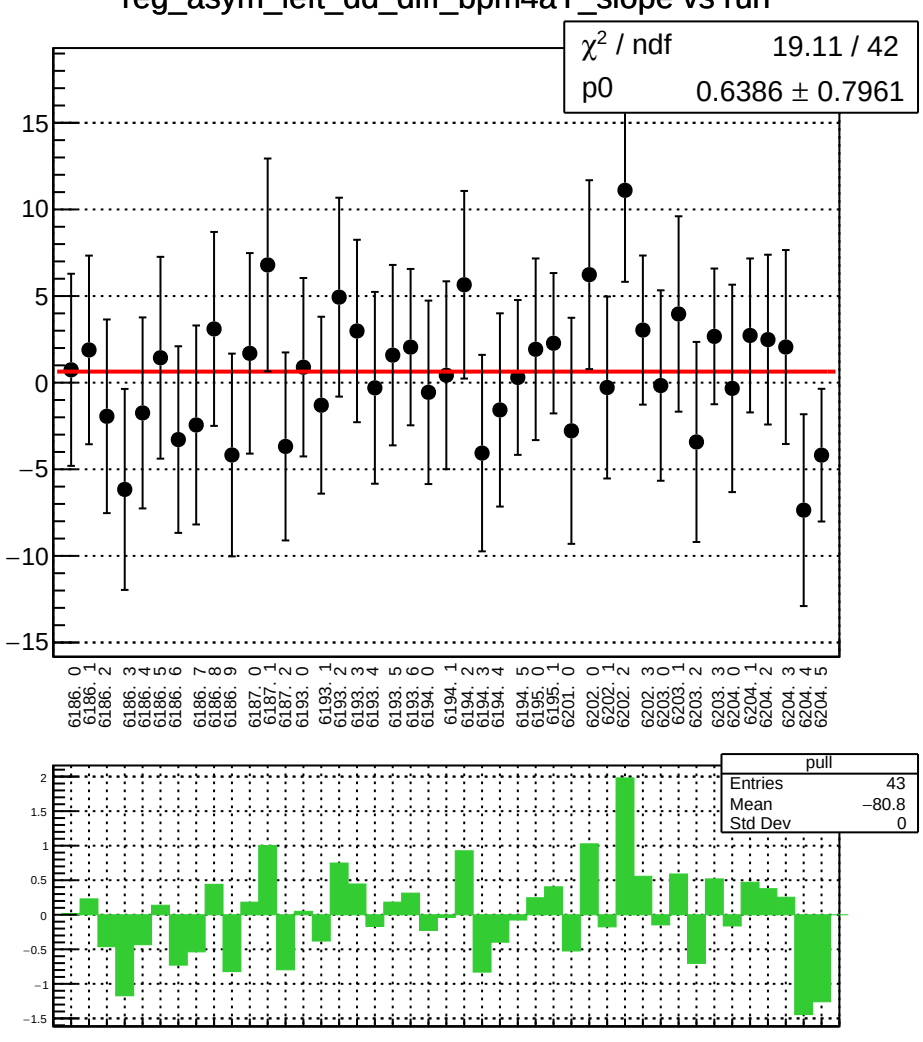

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.16 / 42
p0 10.09 ± 0.8924
pull
Entries 43
Mean −67.44
Std Dev 0

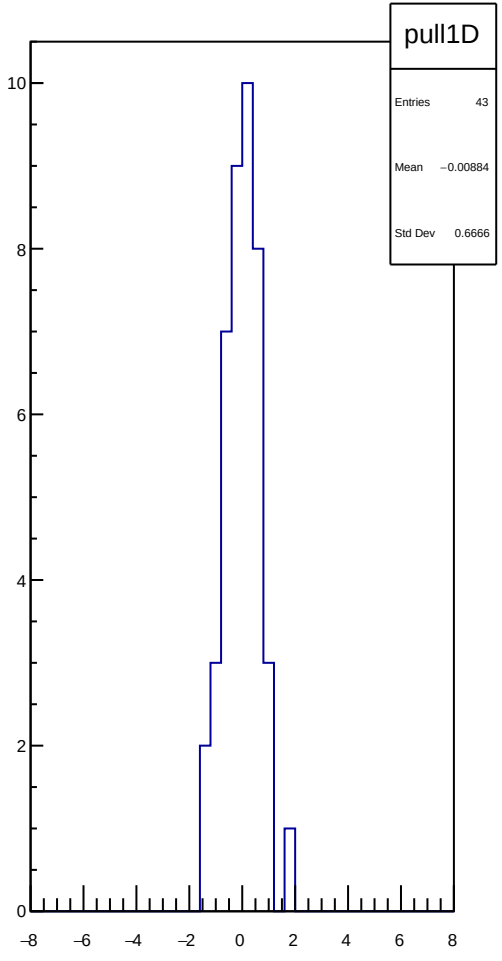

pull1D
Entries 43
Mean 0.02604
Std Dev 0.7644

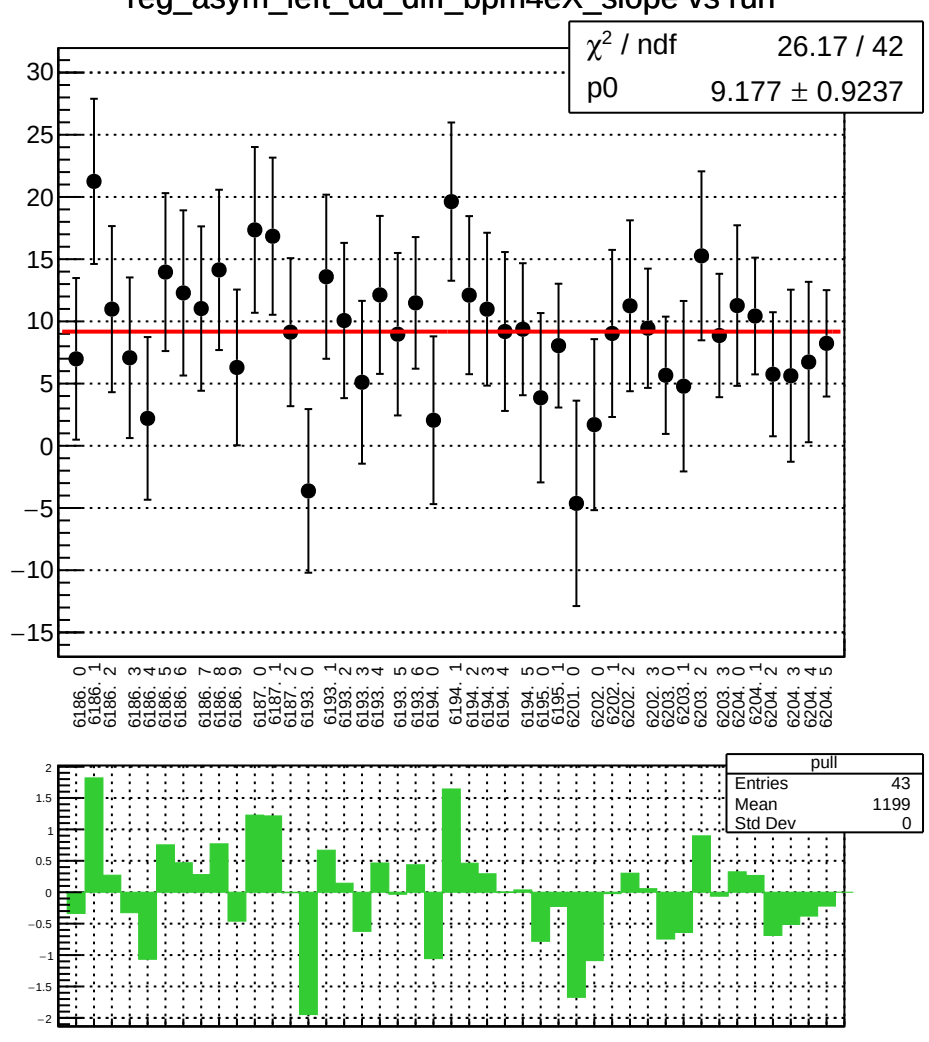

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 27.56 / 42
p0 −18.22 ± 0.07683
−16.5
−17
−17.5
−18
−18.5
−19
−19.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 131.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01799
Std Dev 0.8004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

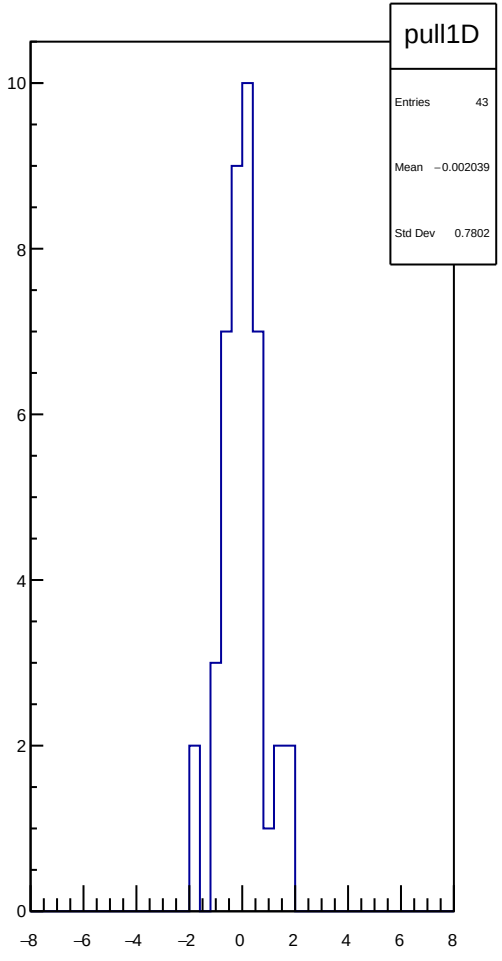

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 26.45 / 42
p0 −31.62 ± 0.8458
pull
Entries 43
Mean 1124
Std Dev 0

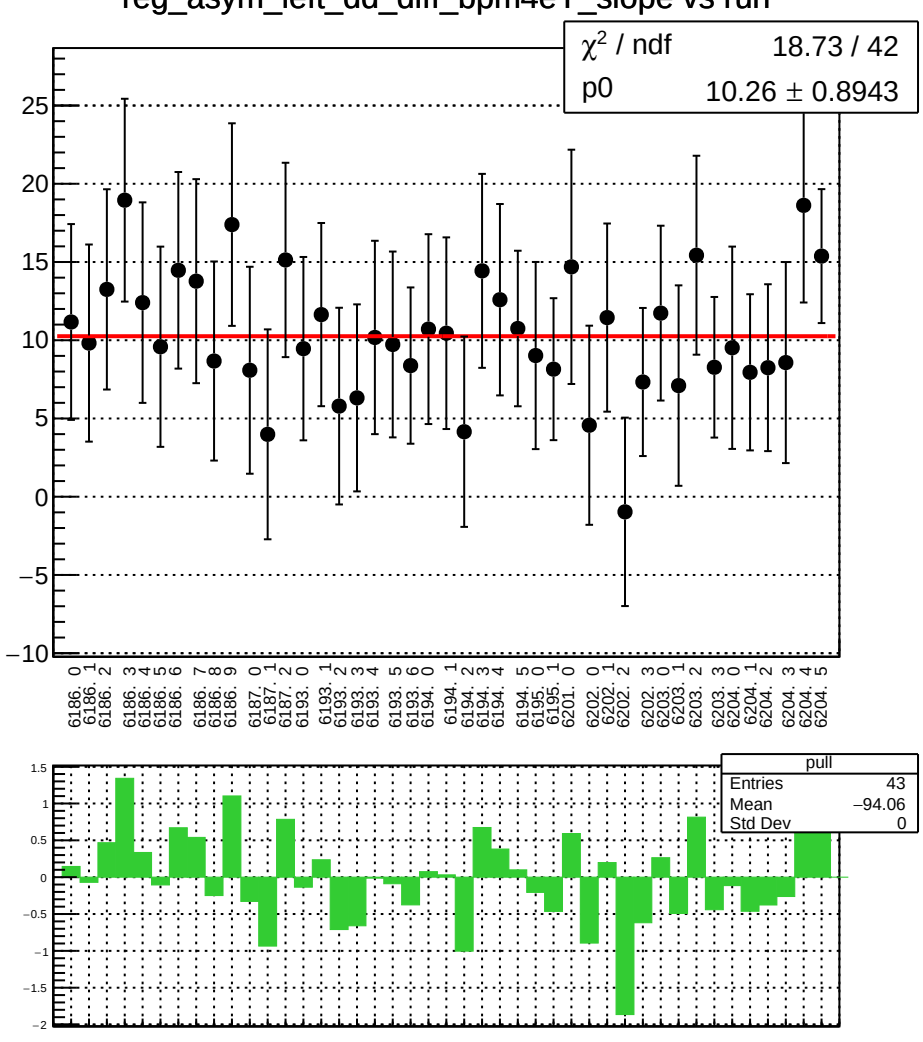

pull1D
Entries 43
Mean 0.002225
Std Dev 0.7843

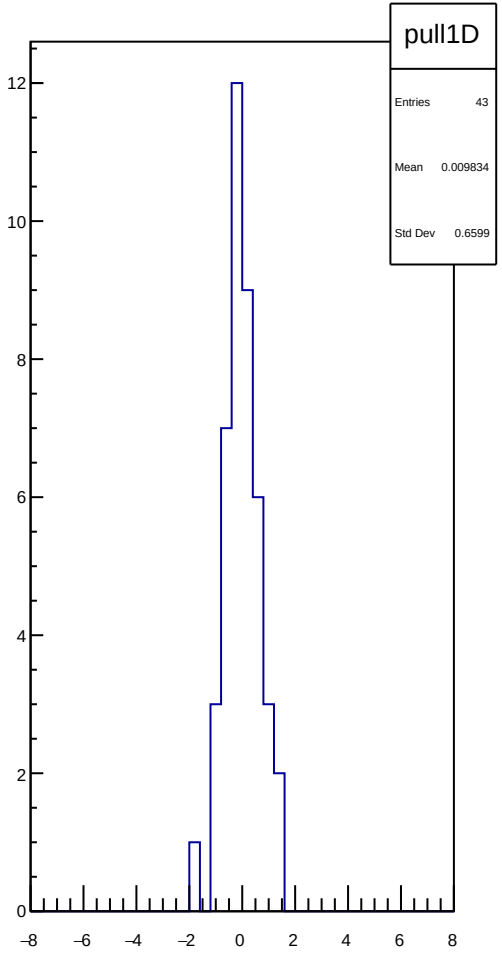

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.11 / 42
p0 0.6386 ± 0.7961
pull
Entries 43
Mean −80.8
Std Dev 0

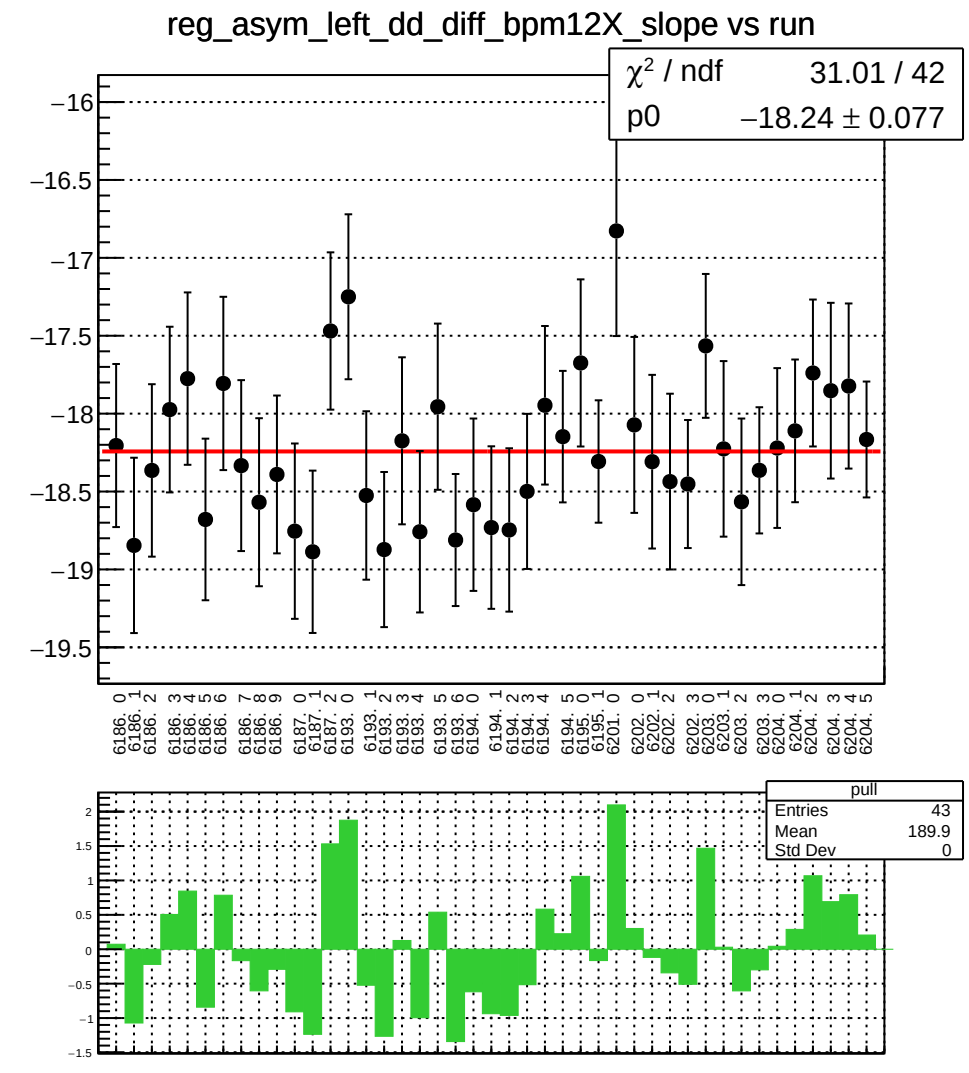

pull1D
Entries 43
Mean −0.00884
Std Dev 0.6666

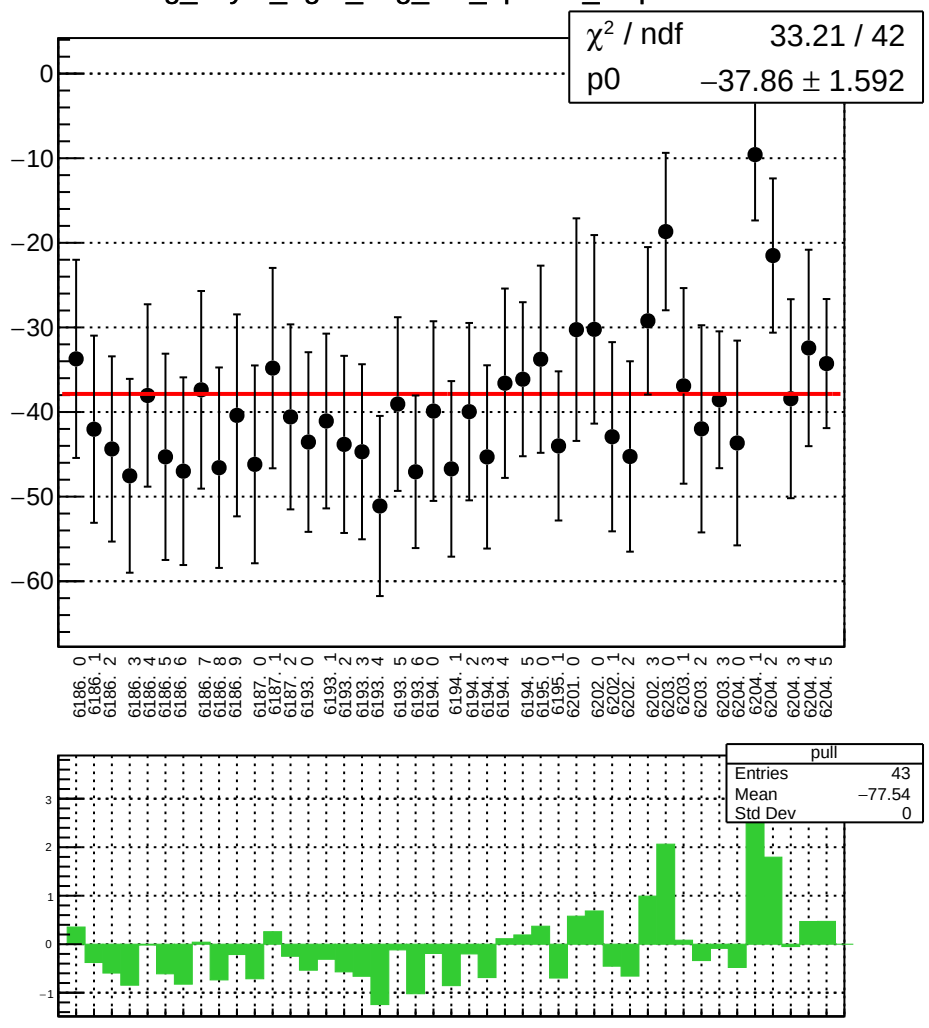

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 26.17 / 42
p0 9.177 ± 0.9237
pull
Entries 43
Mean 1199
Std Dev 0

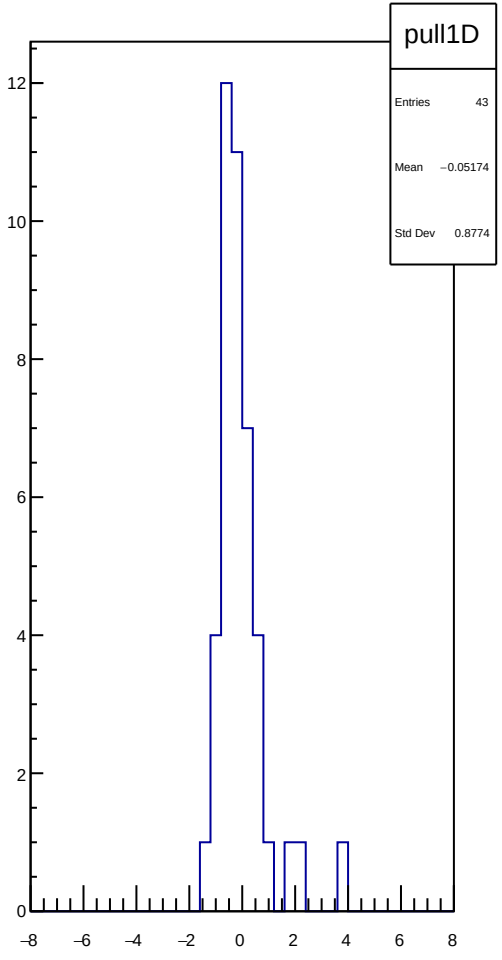

pull1D
Entries 43
Mean −0.002039
Std Dev 0.7802

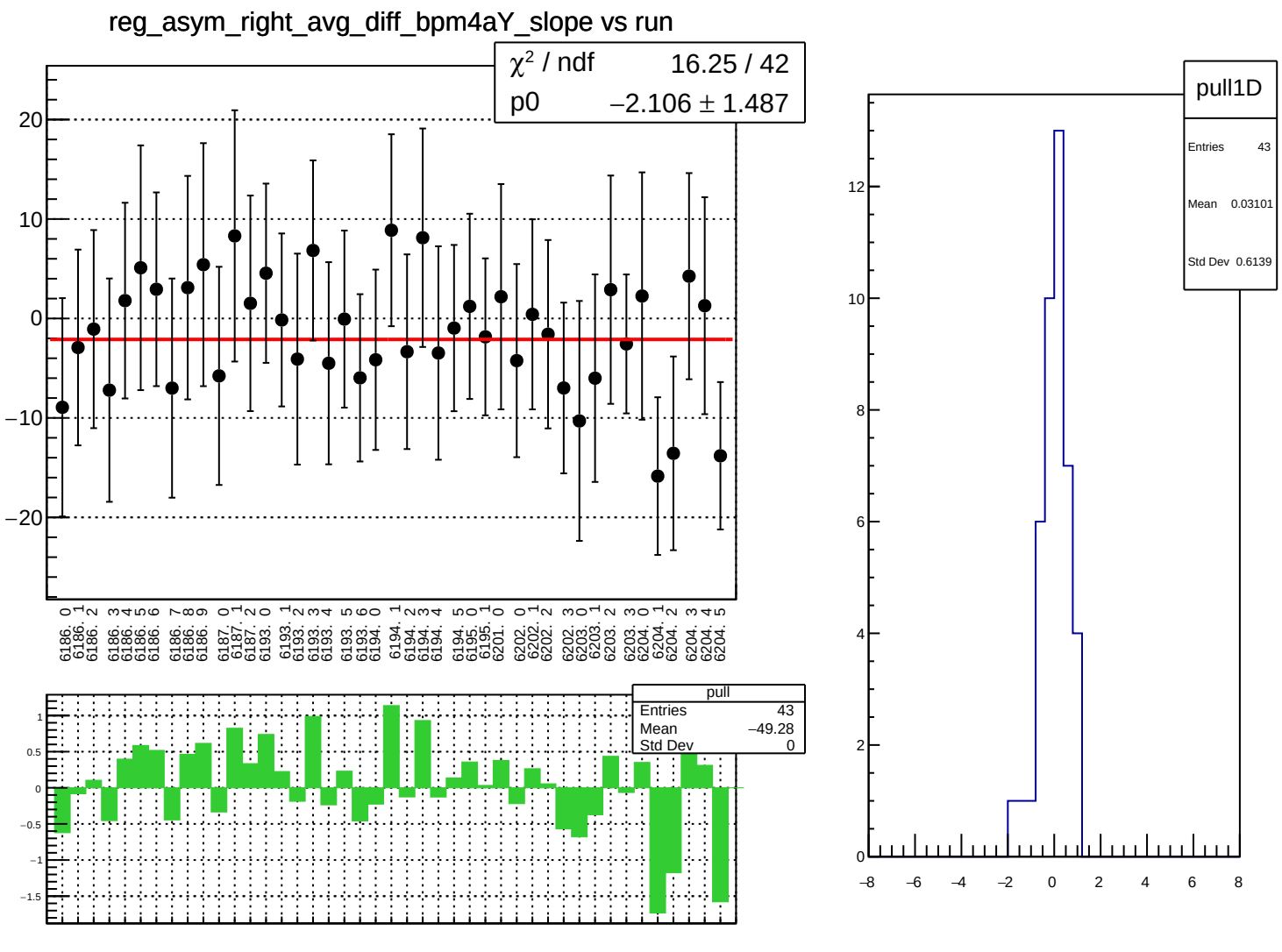

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.73 / 42
p0 10.26 ± 0.8943
pull
Entries 43
Mean −94.06
Std Dev 0

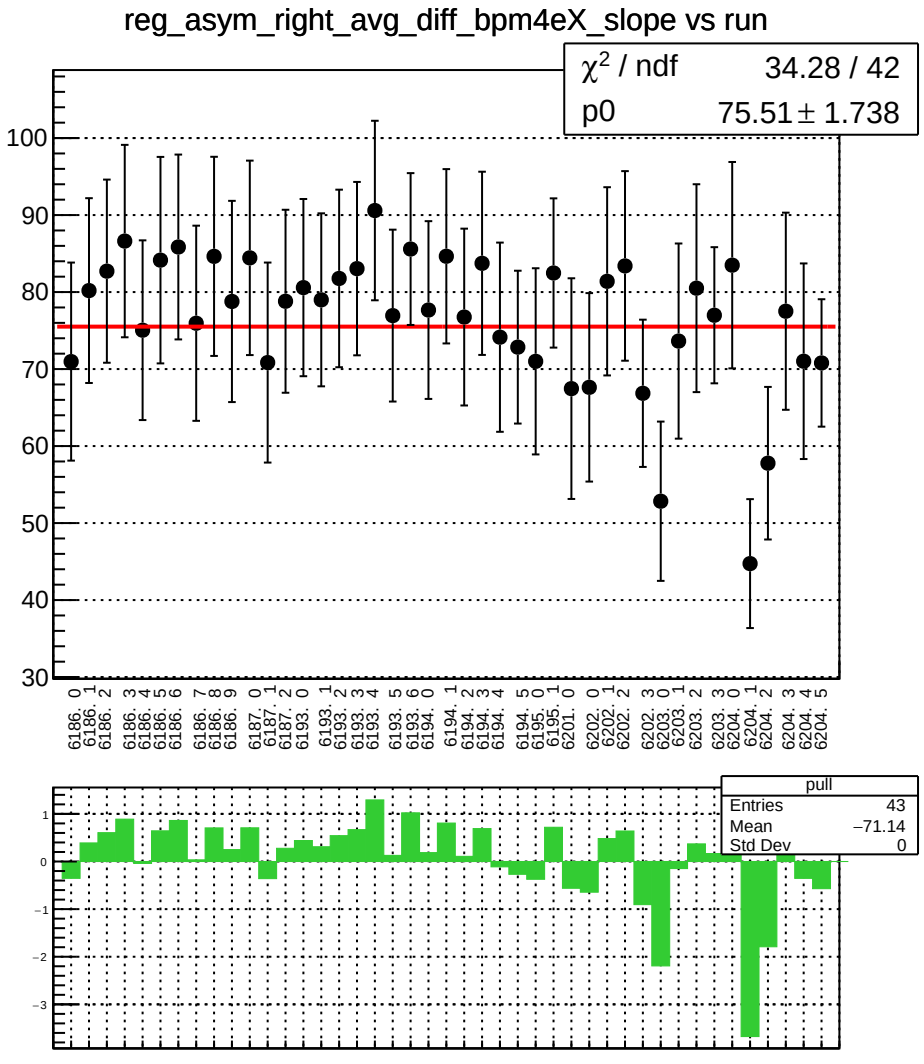

pull1D
Entries 43
Mean 0.009834
Std Dev 0.6599

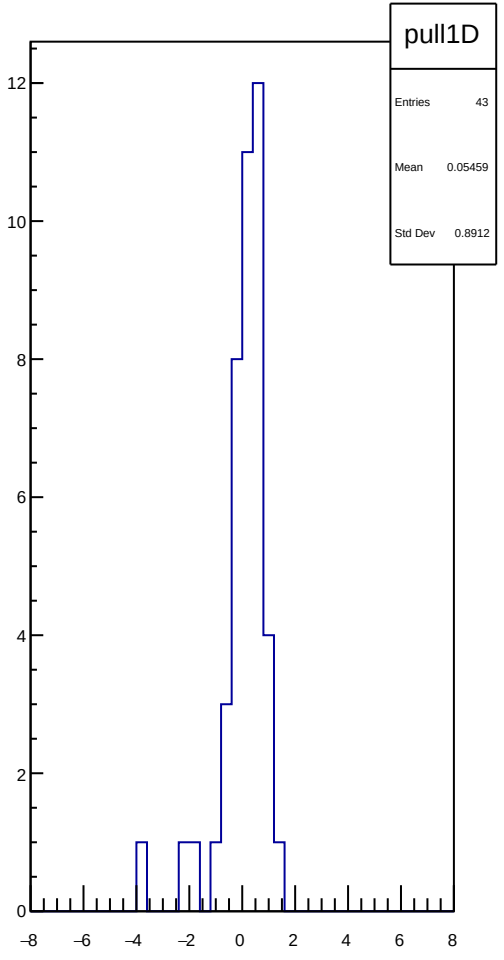

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 31.01 / 42
p0 −18.24 ± 0.077
pull
Entries 43
Mean 189.9
Std Dev 0
pull1D
Entries 43
Mean 0.01395
Std Dev 0.8491

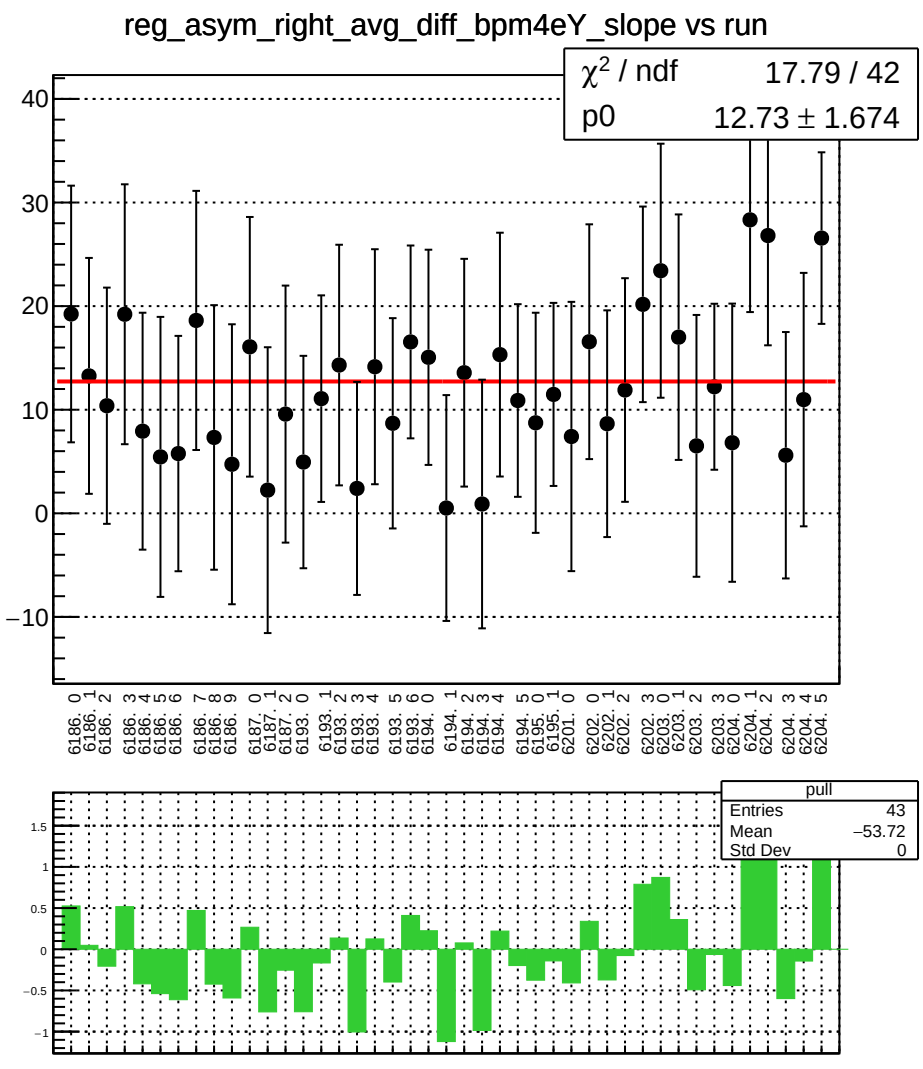

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 33.21 / 42
p0 −37.86 ± 1.592
pull
Entries 43
Mean −77.54
Std Dev 0

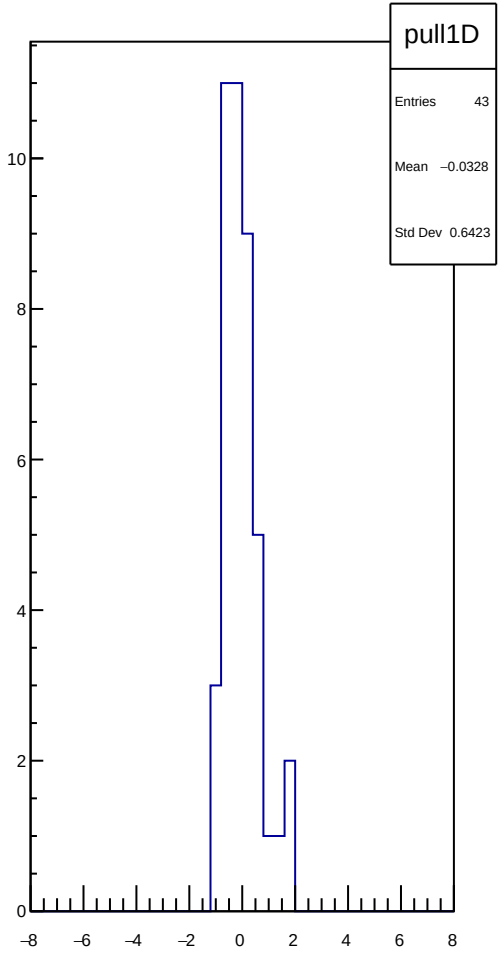

pull1D
Entries 43
Mean −0.05174
Std Dev 0.8774

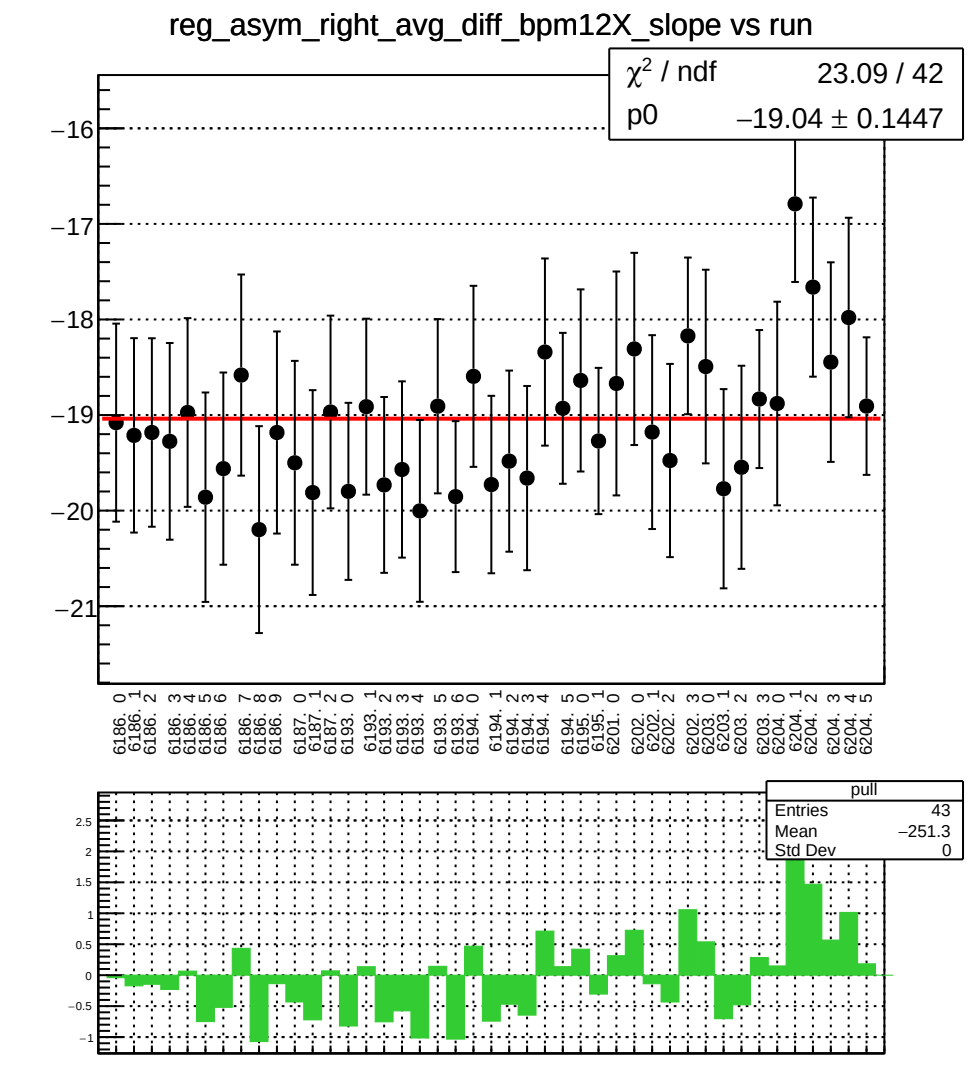

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.25 / 42
p0 −2.106 ± 1.487
20
10
0
−10
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −49.28
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.03101
Std Dev 0.6139
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

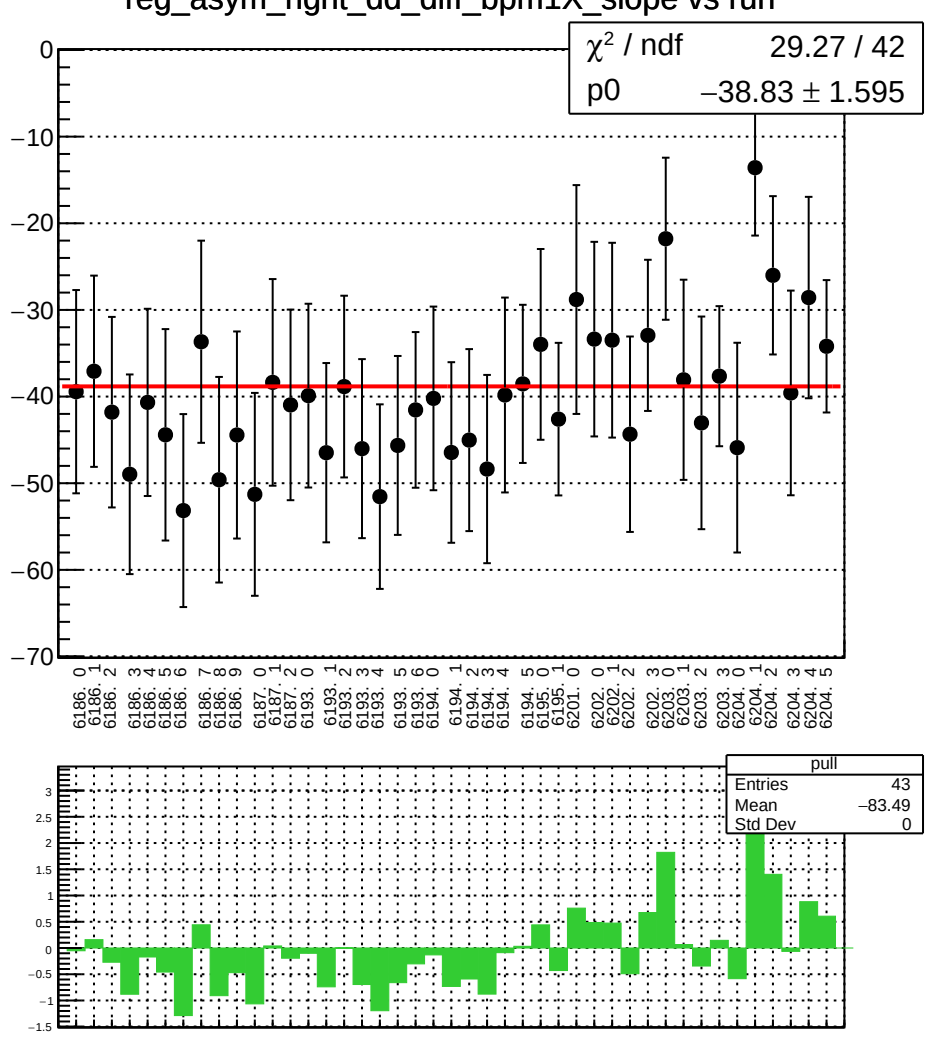

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.28 / 42
p0 75.51 ± 1.738
pull
Entries 43
Mean −71.14
Std Dev 0

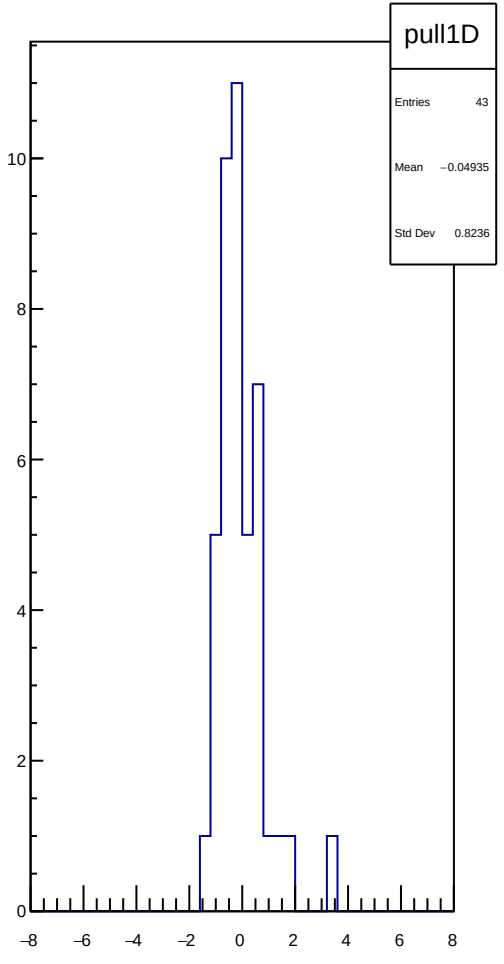

pull1D
Entries 43
Mean 0.05459
Std Dev 0.8912

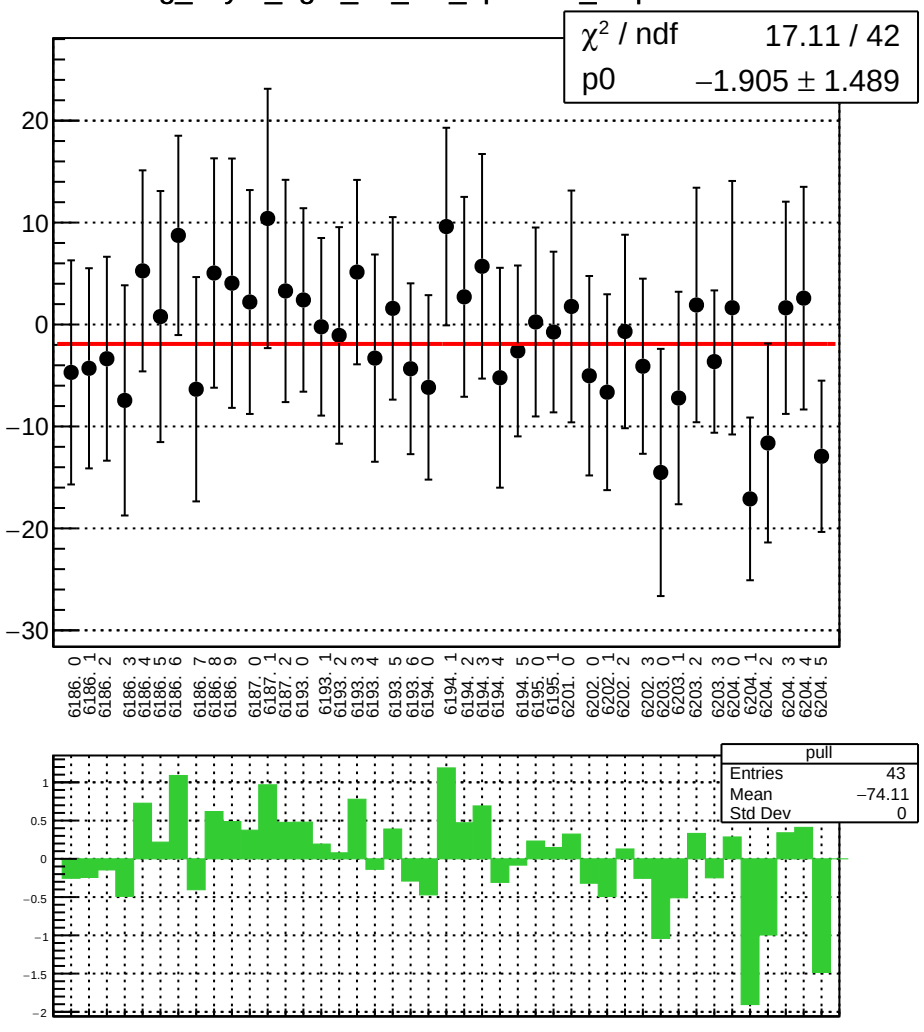

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.79 / 42
p0 12.73 ± 1.674
40
30
20
10
0
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −53.72
Std Dev 0
1.5
1
0.5
0
−0.5
−1

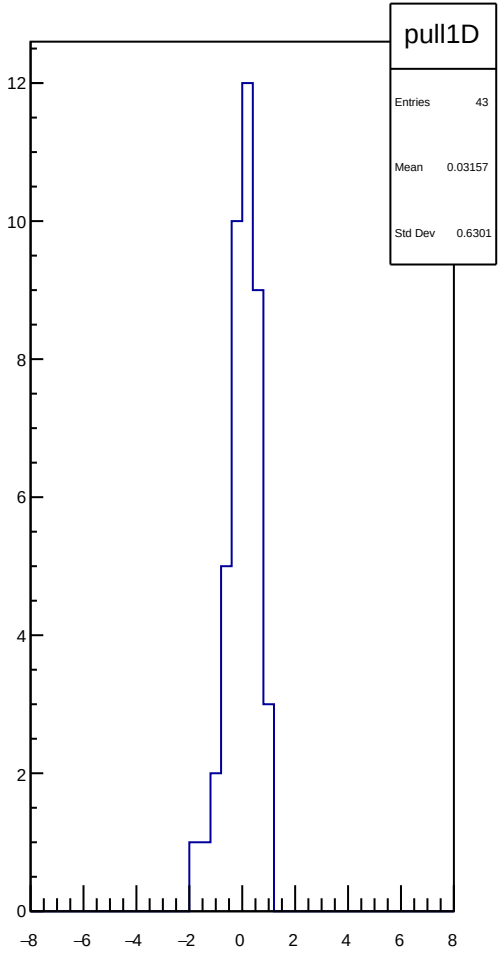

pull1D
Entries 43
Mean −0.0328
Std Dev 0.6423
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

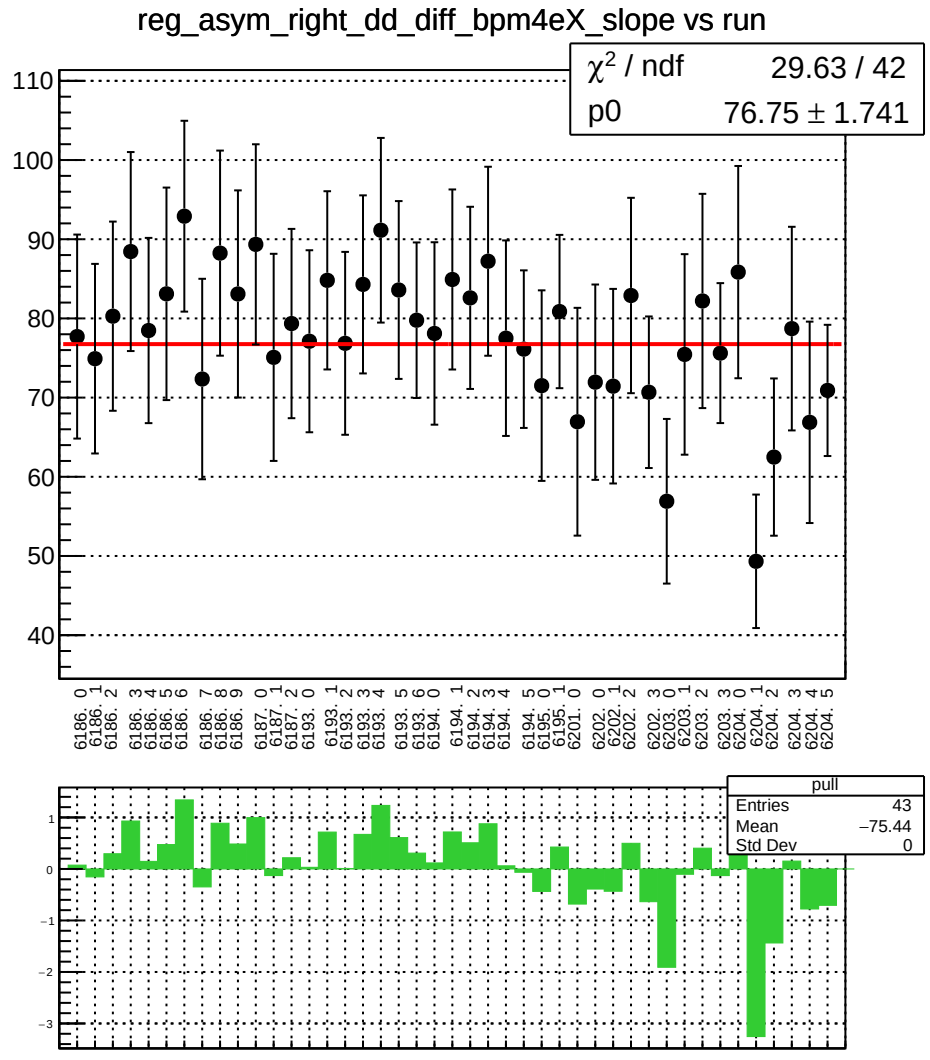

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 23.09 / 42
p0 −19.04 ± 0.1447
−16
−17
−18
−19
−20
−21
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −251.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.01617
Std Dev 0.7327
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

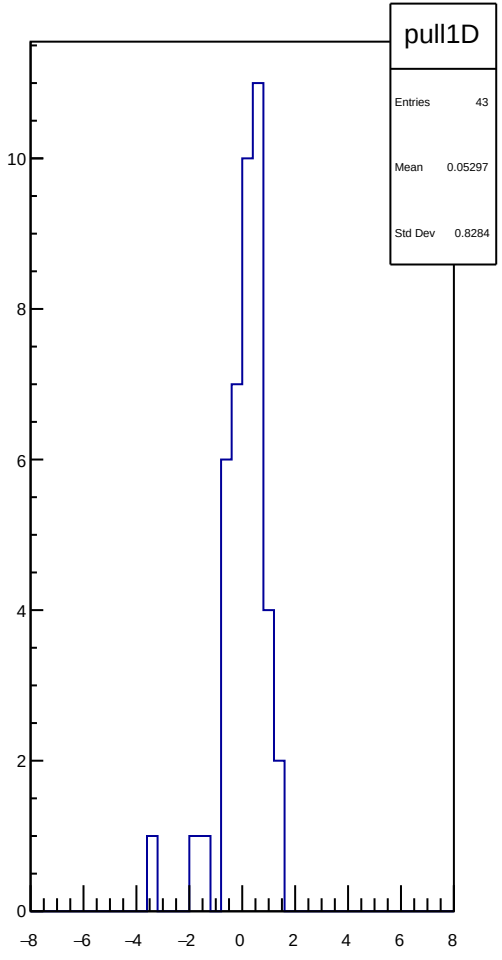

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 29.27 / 42
p0 −38.83 ± 1.595
pull
Entries 43
Mean −83.49
Std Dev 0

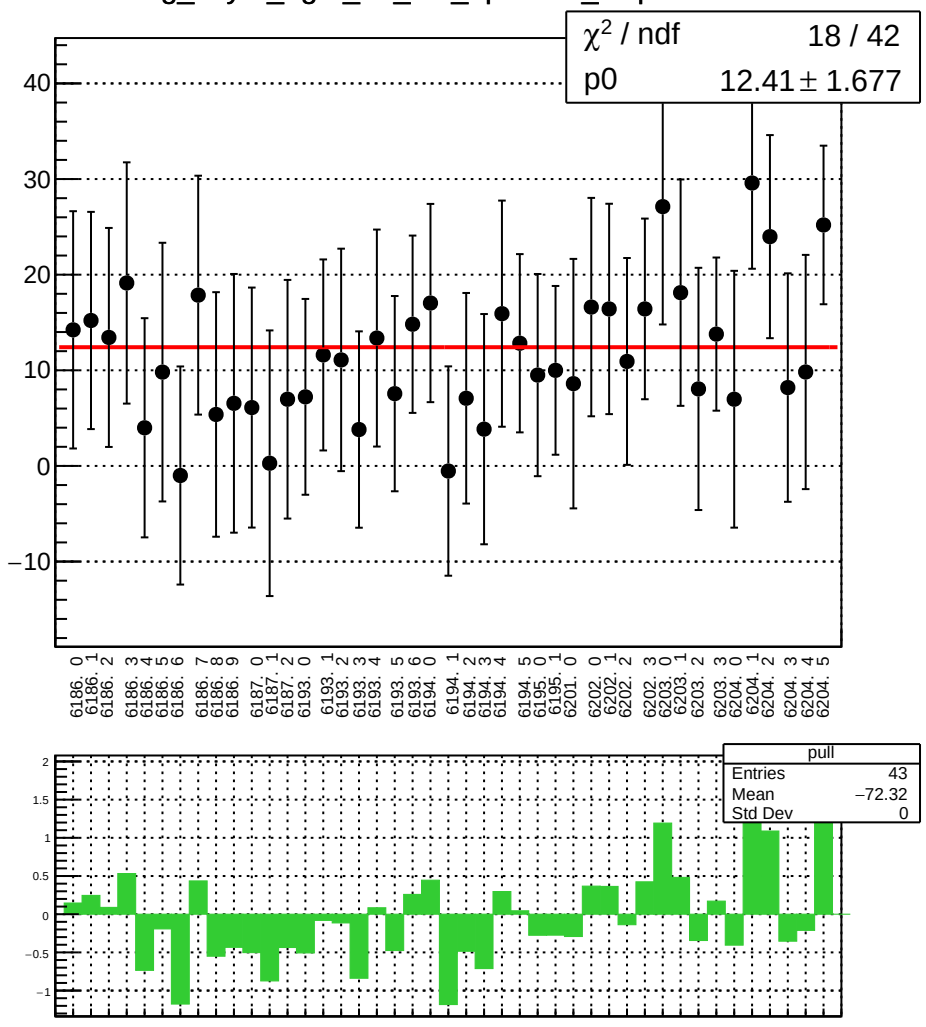

pull1D
Entries 43
Mean −0.04935
Std Dev 0.8236

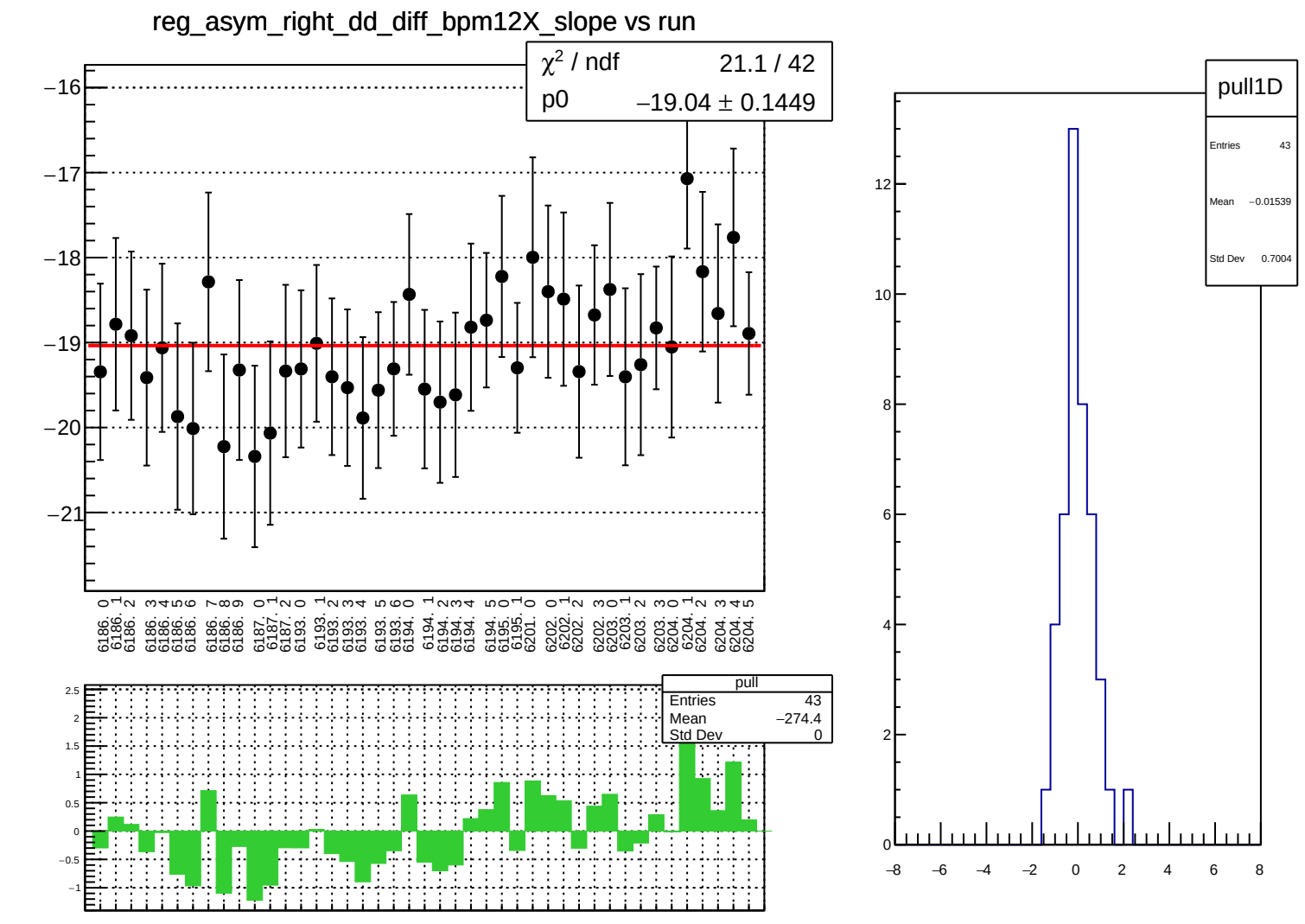

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.11 / 42
p0 −1.905 ± 1.489
pull
Entries 43
Mean −74.11
Std Dev 0

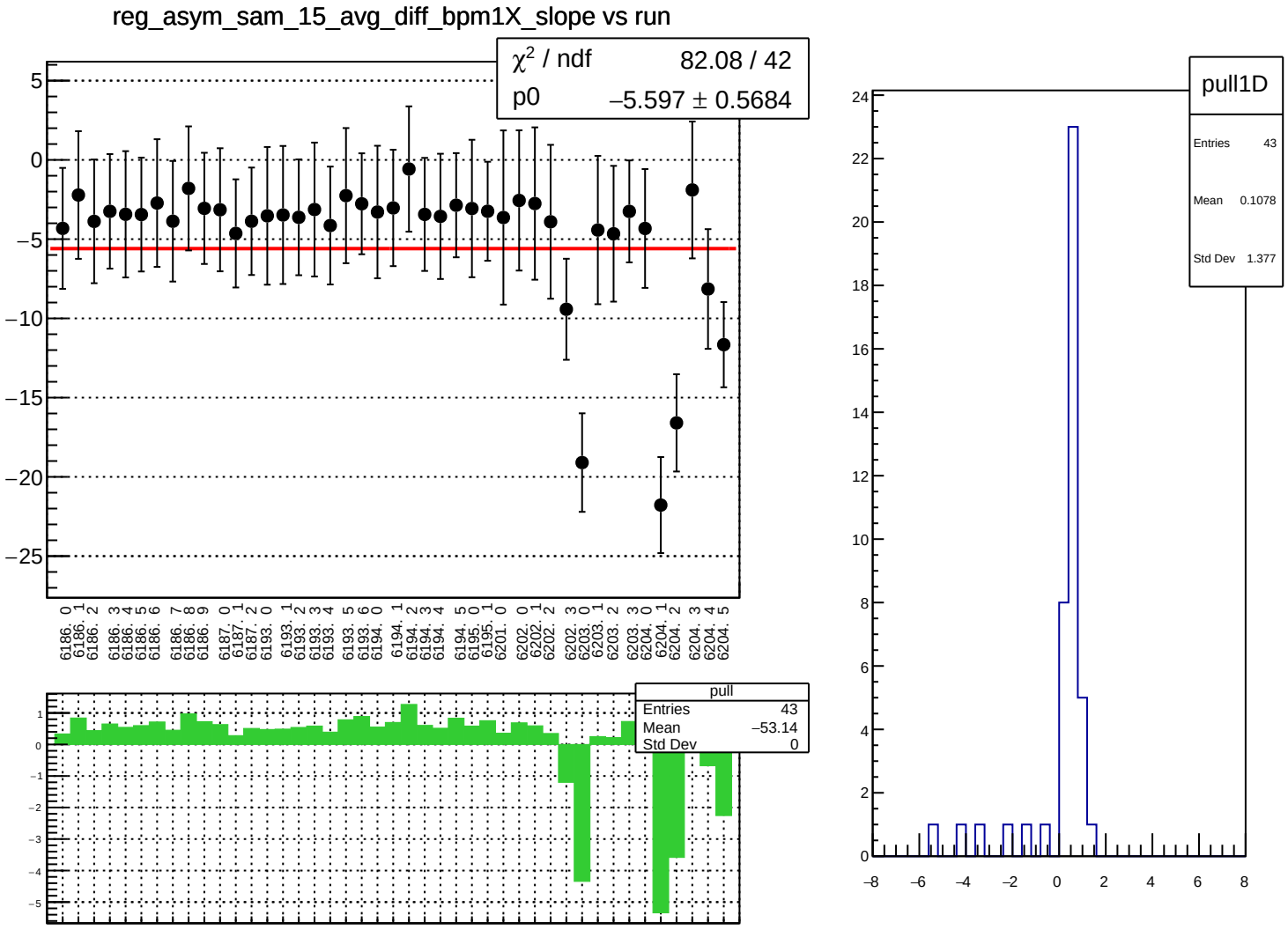

pull1D
Entries 43
Mean 0.03157
Std Dev 0.6301

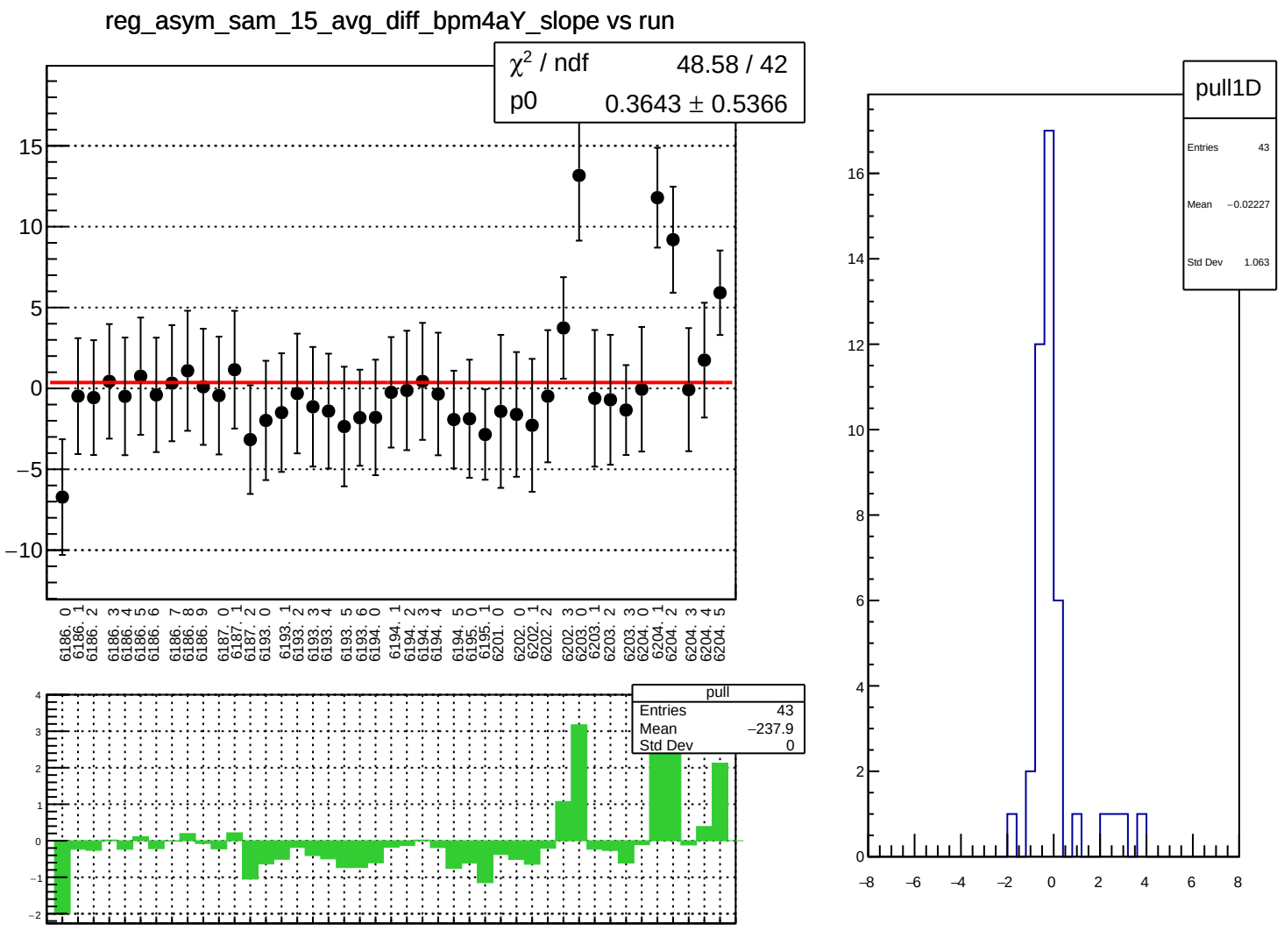

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.63 / 42
p0 76.75 ± 1.741
110
100
90
80
70
60
50
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −75.44
Std Dev 0
1
0
−1
−2
−3

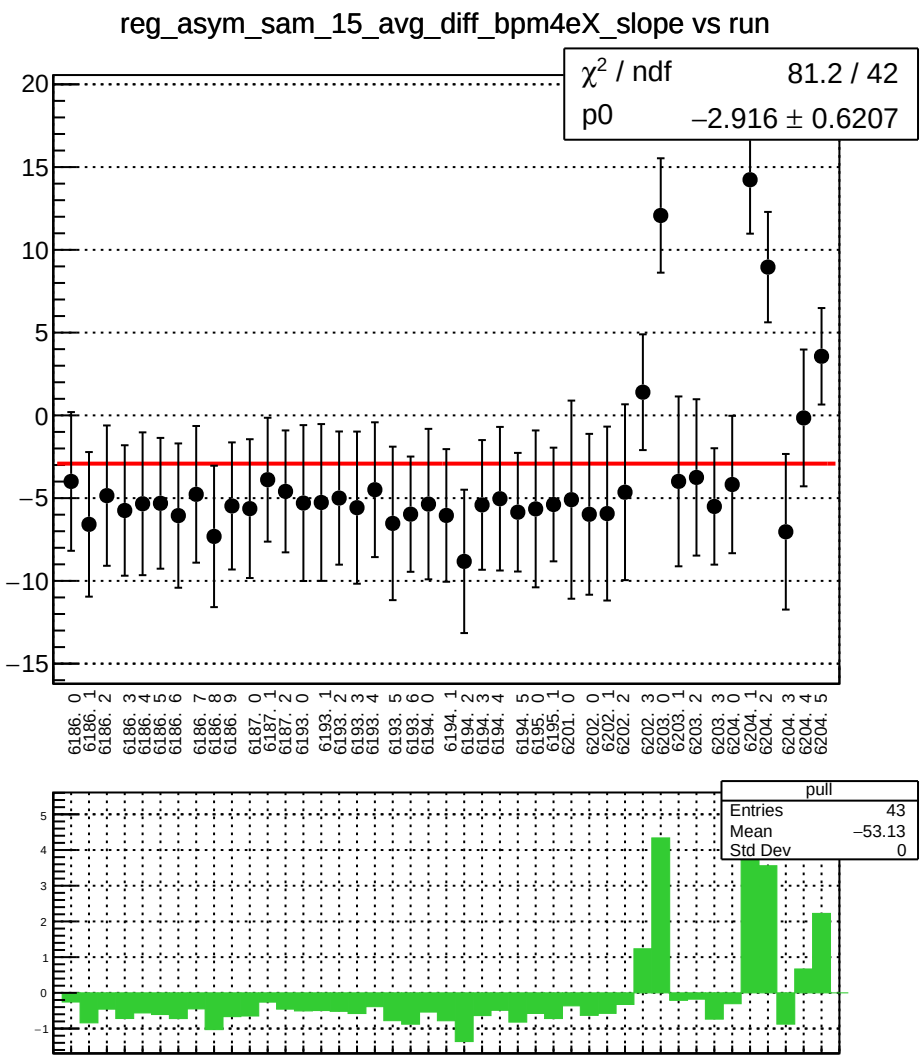

pull1D
Entries 43
Mean 0.05297
Std Dev 0.8284
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

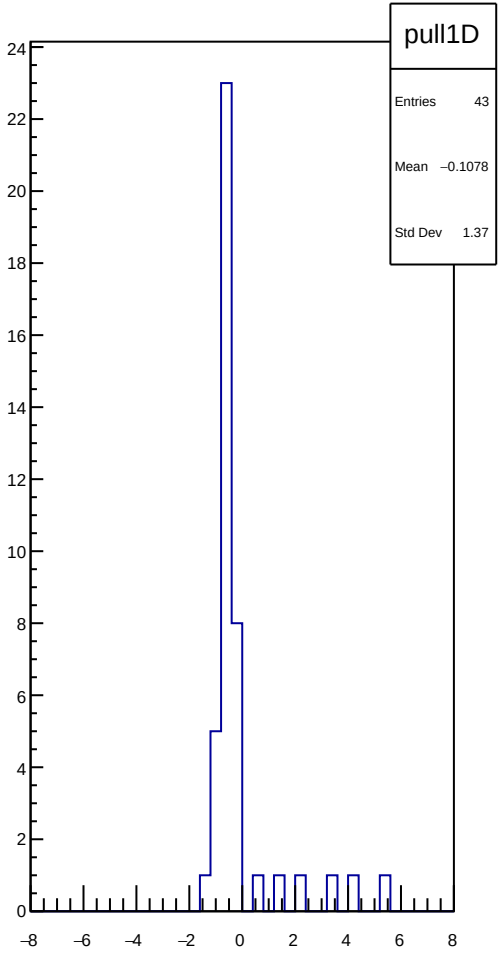

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 18 / 42
p0 12.41 ± 1.677
40
30
20
10
0
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −72.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.03397
Std Dev 0.6462
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

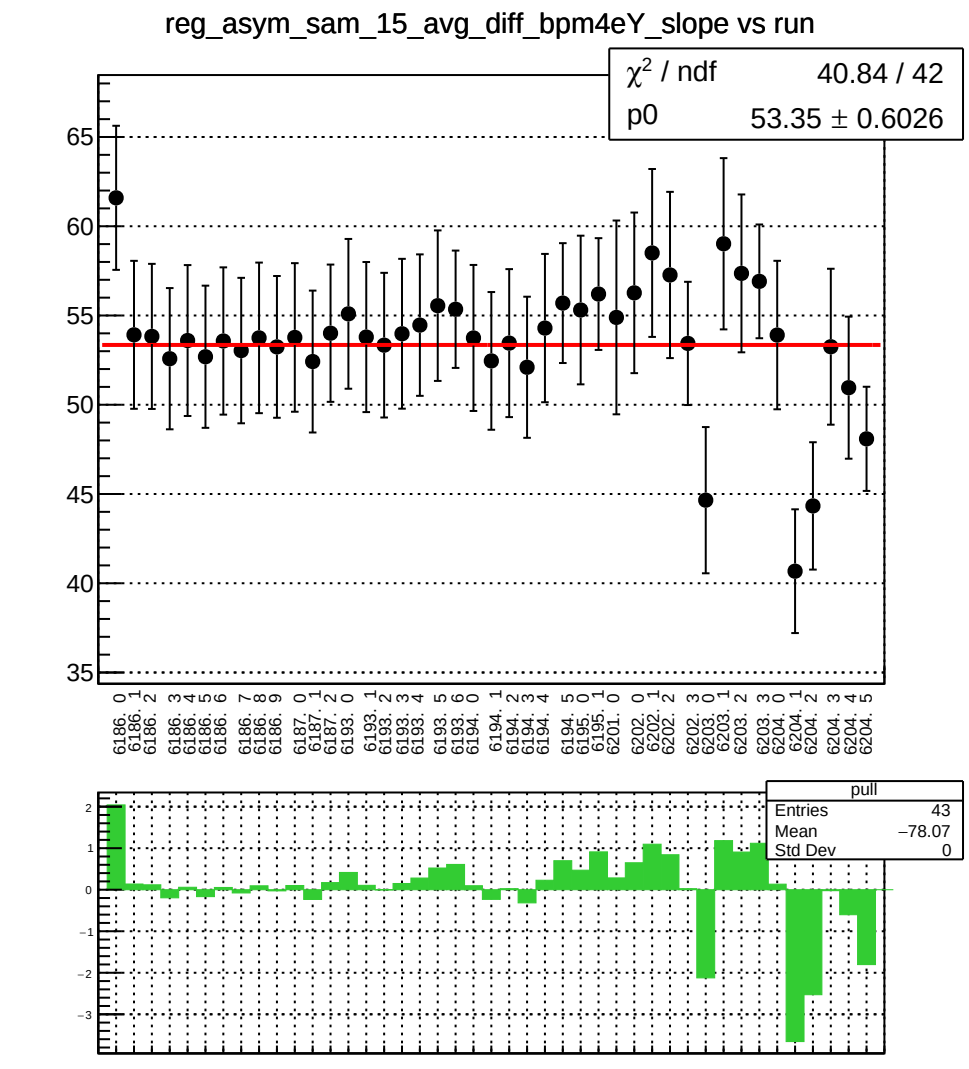

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 21.1 / 42
p0 −19.04 ± 0.1449
−16
−17
−18
−19
−20
−21
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −274.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.01539
Std Dev 0.7004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

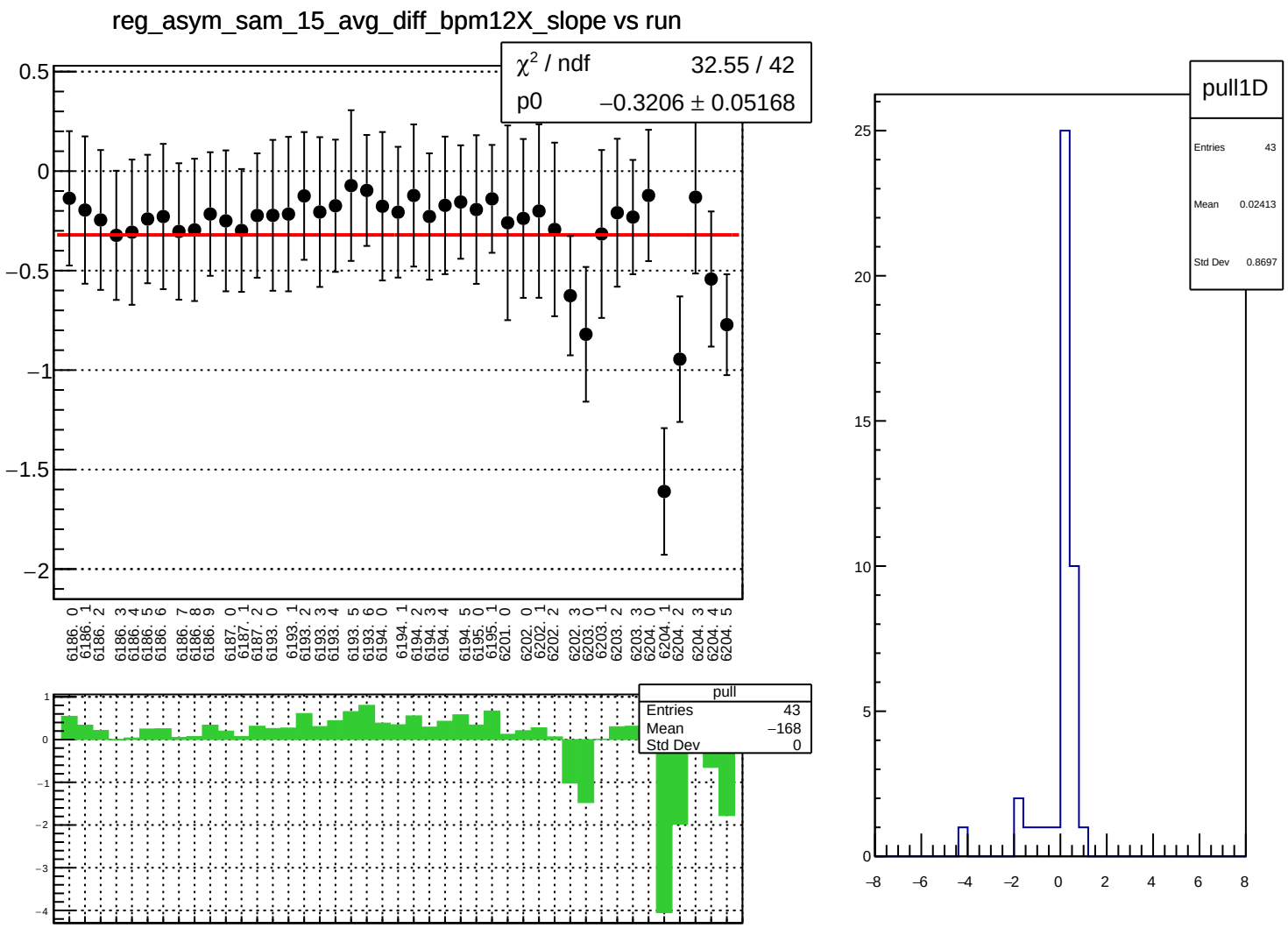

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 82.08 / 42
p0 −5.597 ± 0.5684
pull
Entries 43
Mean −53.14
Std Dev 0
pull1D
Entries 43
Mean 0.1078
Std Dev 1.377

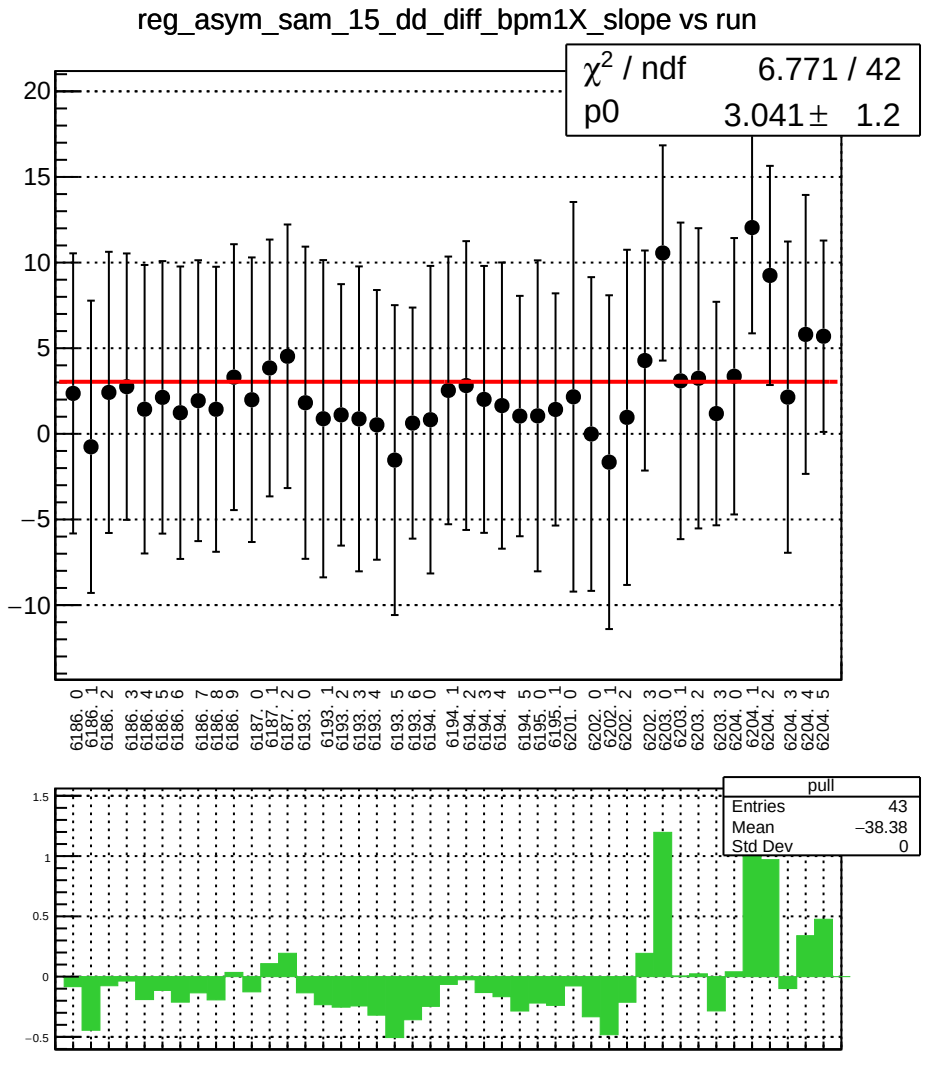

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 48.58 / 42
p0 0.3643 ± 0.5366
15
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −237.9
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.02227
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

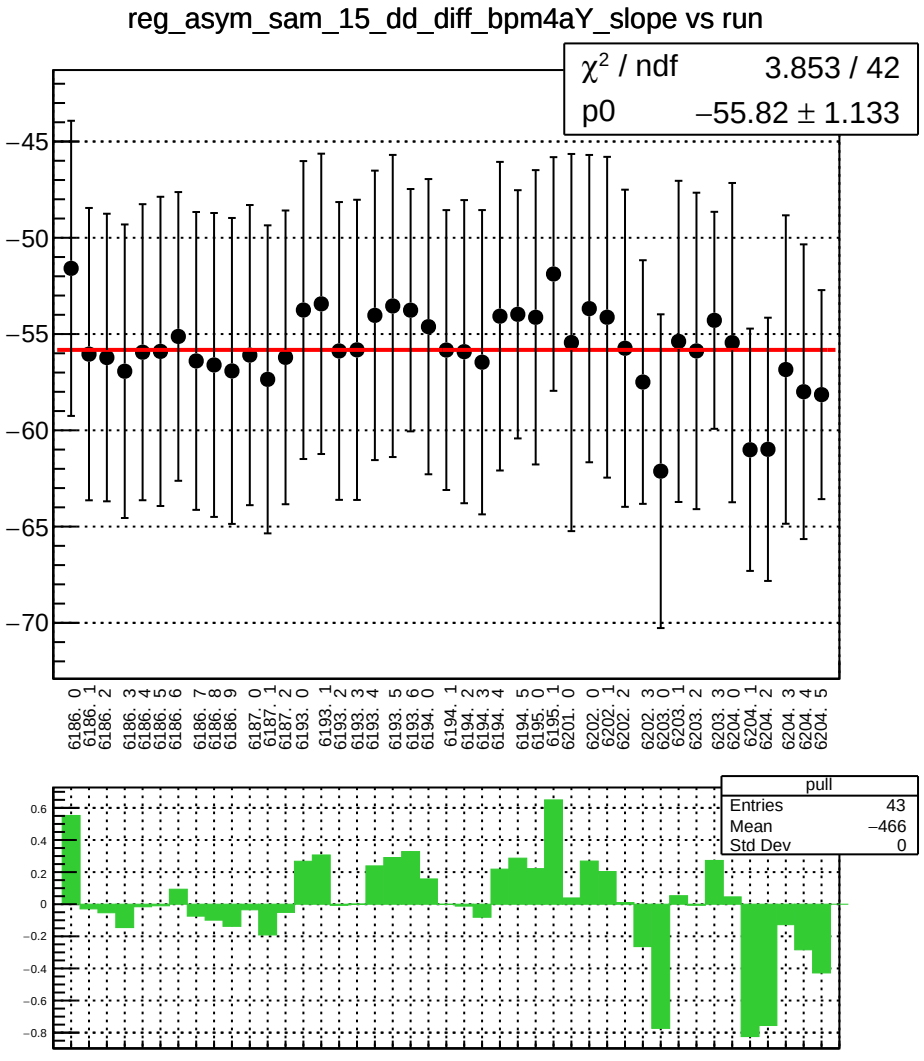

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 81.2 / 42
p0 −2.916 ± 0.6207
pull
Entries 43
Mean −53.13
Std Dev 0

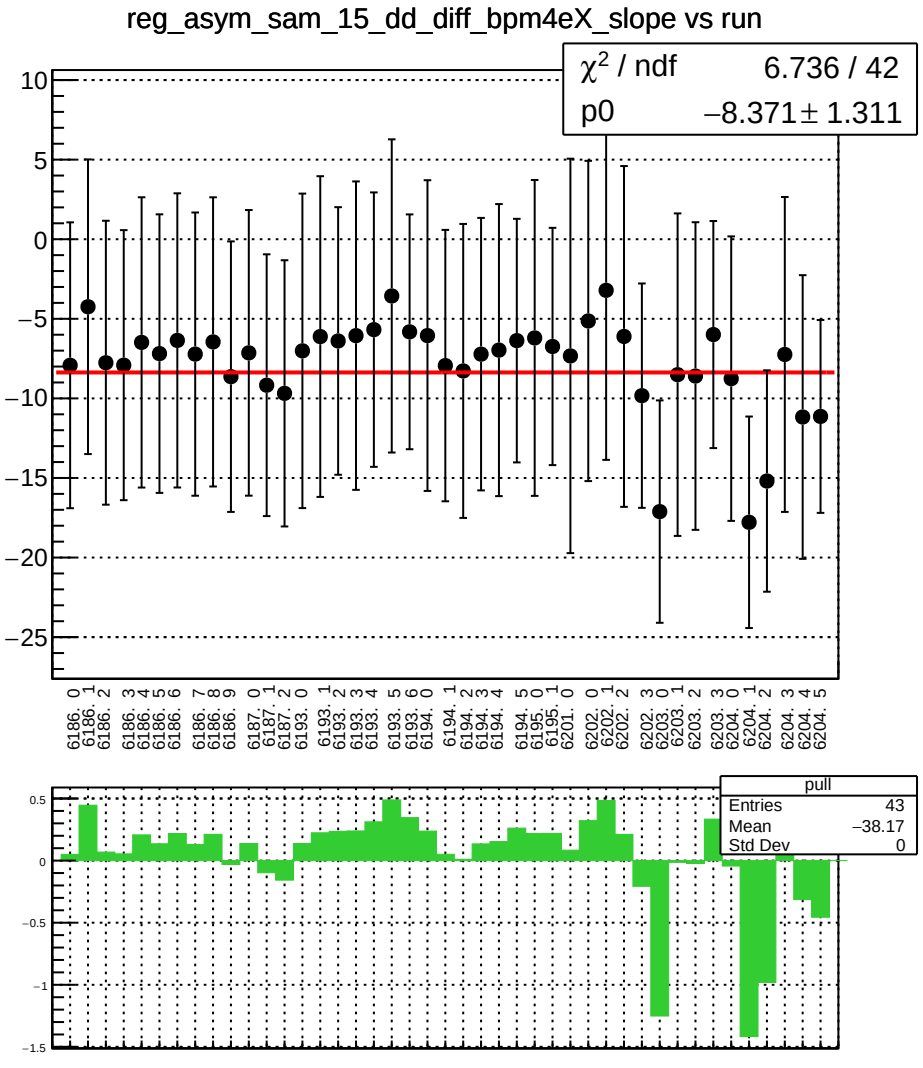

pull1D
Entries 43
Mean −0.1078
Std Dev 1.37

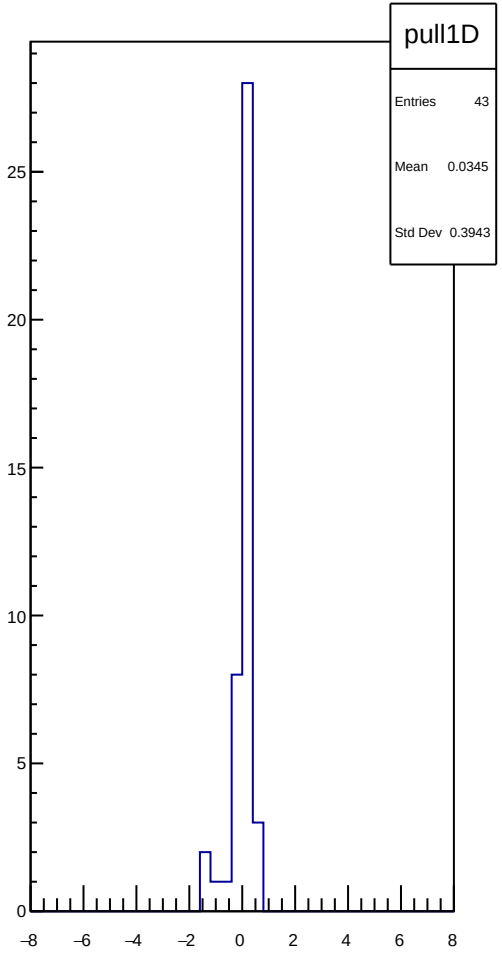

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.84 / 42
p0 53.35 ± 0.6026
65
60
55
50
45
40
35
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −78.07
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.03562
Std Dev 0.974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

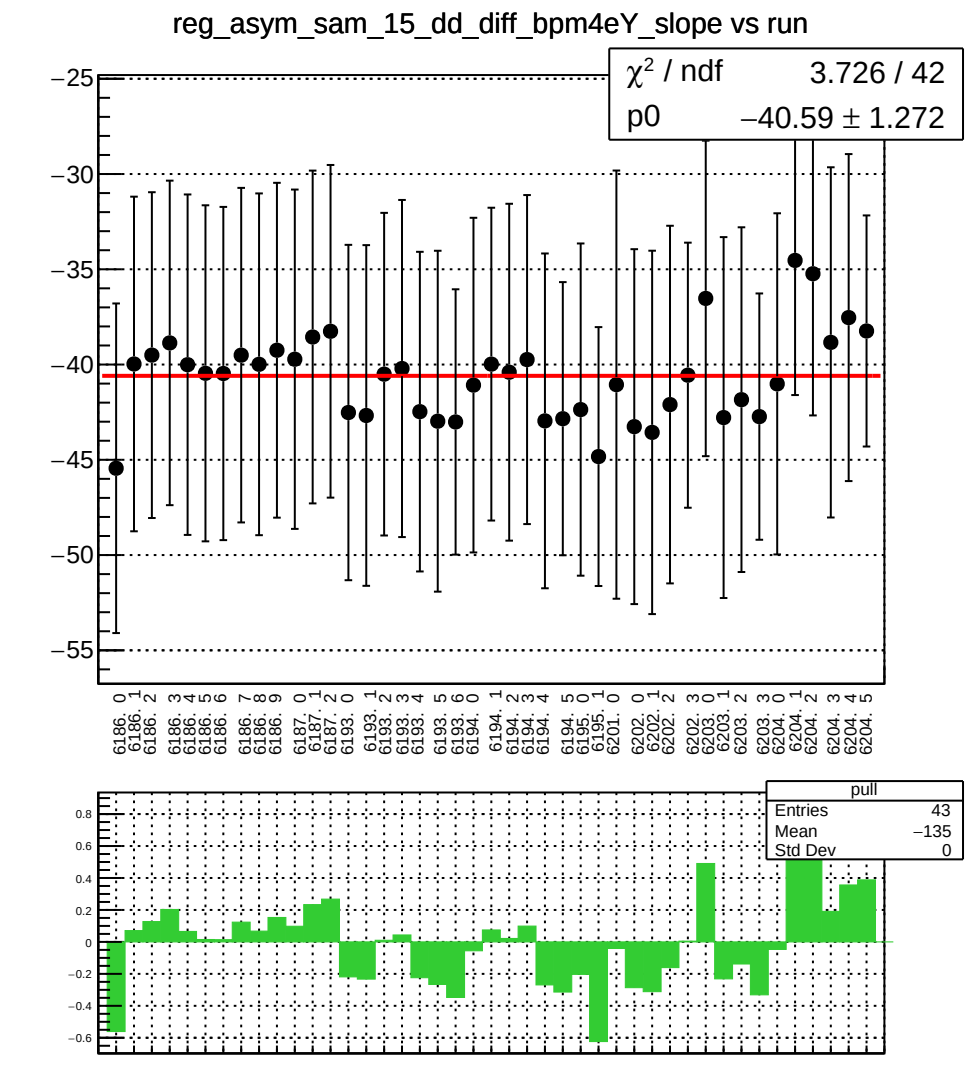

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 32.55 / 42
p0 −0.3206 ± 0.05168
0.5
0
−0.5
−1
−1.5
−2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −168
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean 0.02413
Std Dev 0.8697
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

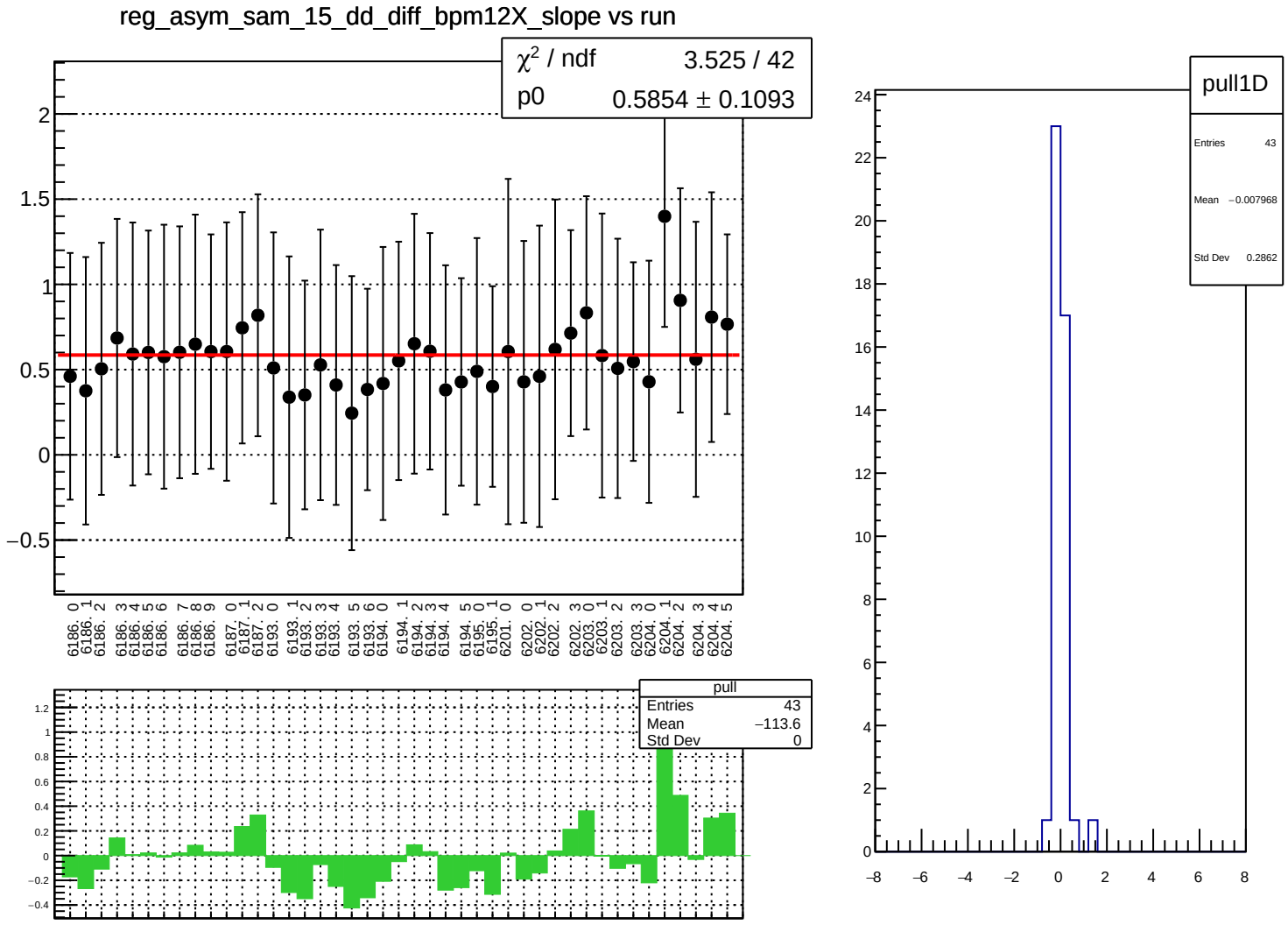

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 6.771 / 42
p0 3.041 ± 1.2
pull
Entries 43
Mean −38.38
Std Dev 0
pull1D
Entries 43
Mean −0.03457
Std Dev 0.3953

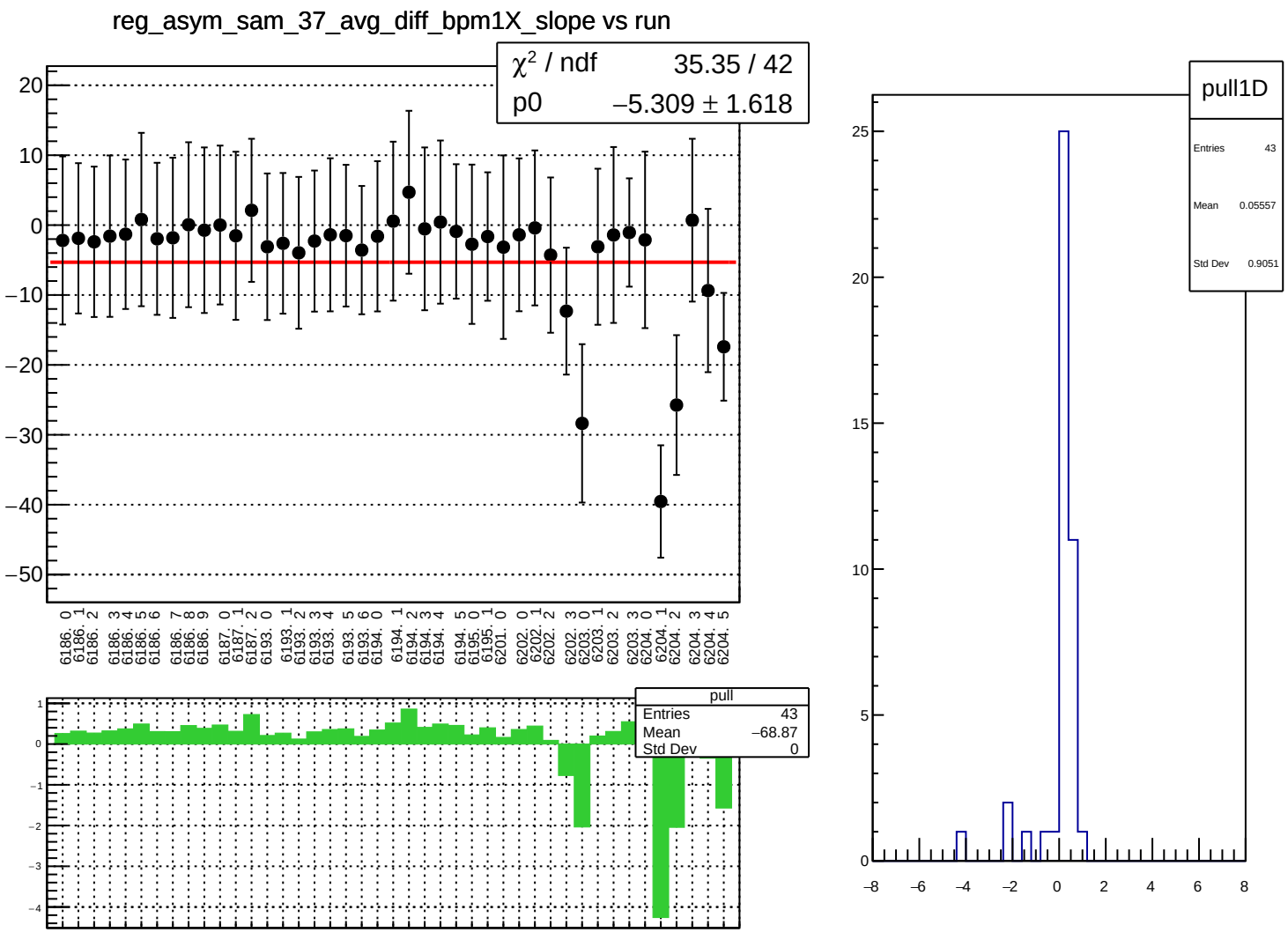

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.853 / 42
p0 −55.82 ± 1.133
−45
−50
−55
−60
−65
−70
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −466
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean 0.002337
Std Dev 0.2993
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

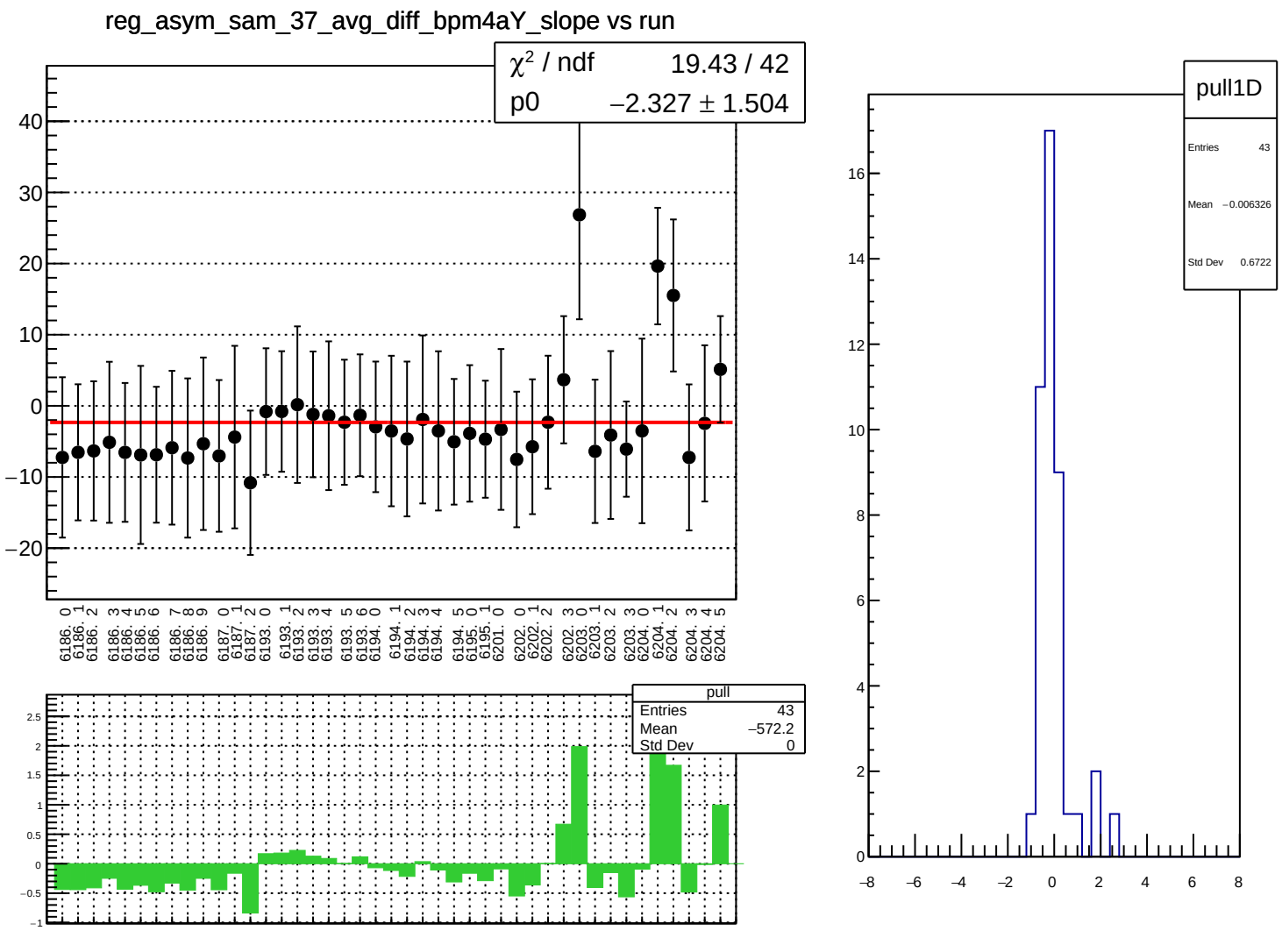

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.736 / 42
p0 −8.371 ± 1.311
pull
Entries 43
Mean −38.17
Std Dev 0

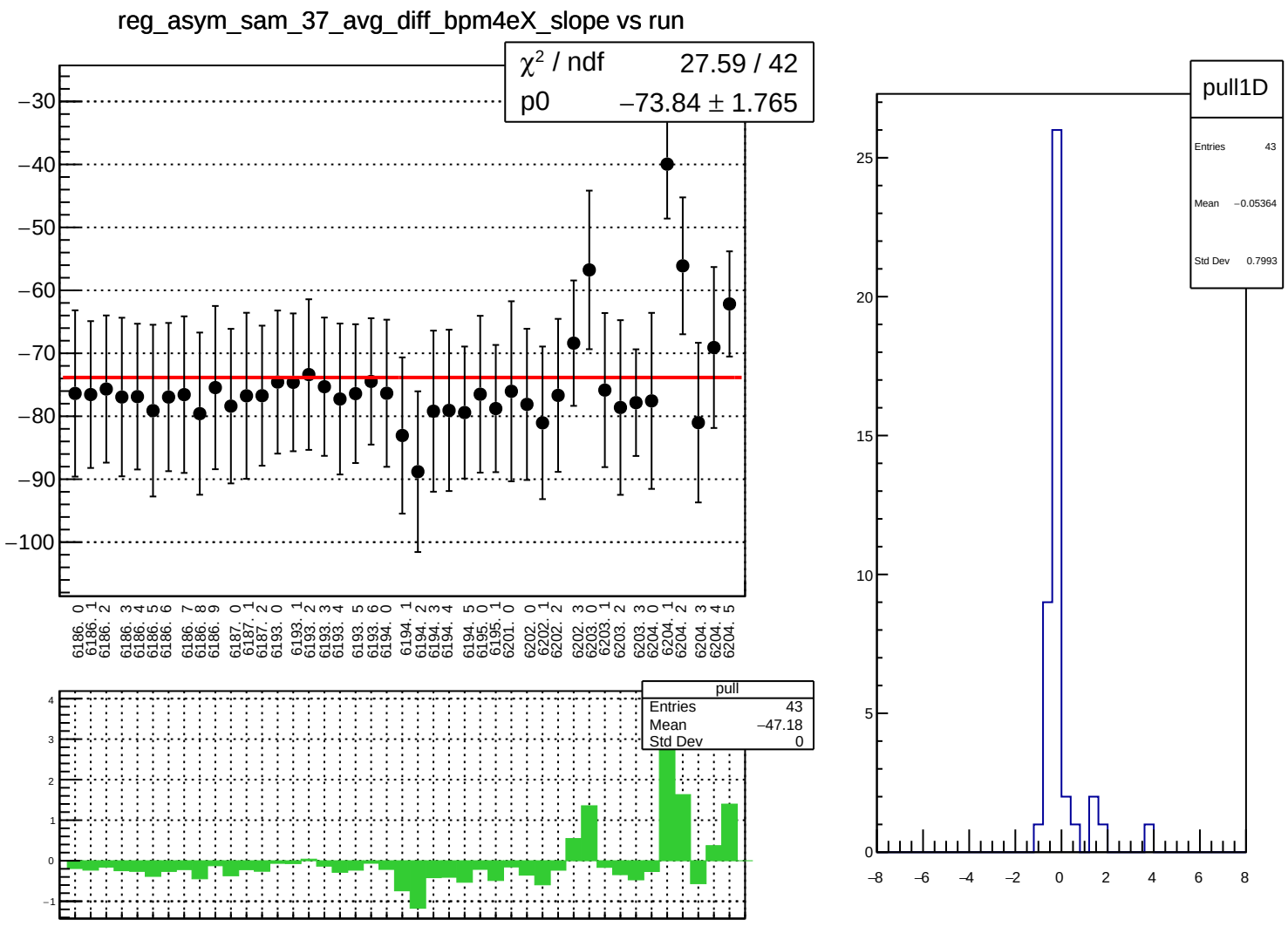

pull1D
Entries 43
Mean 0.0345
Std Dev 0.3943

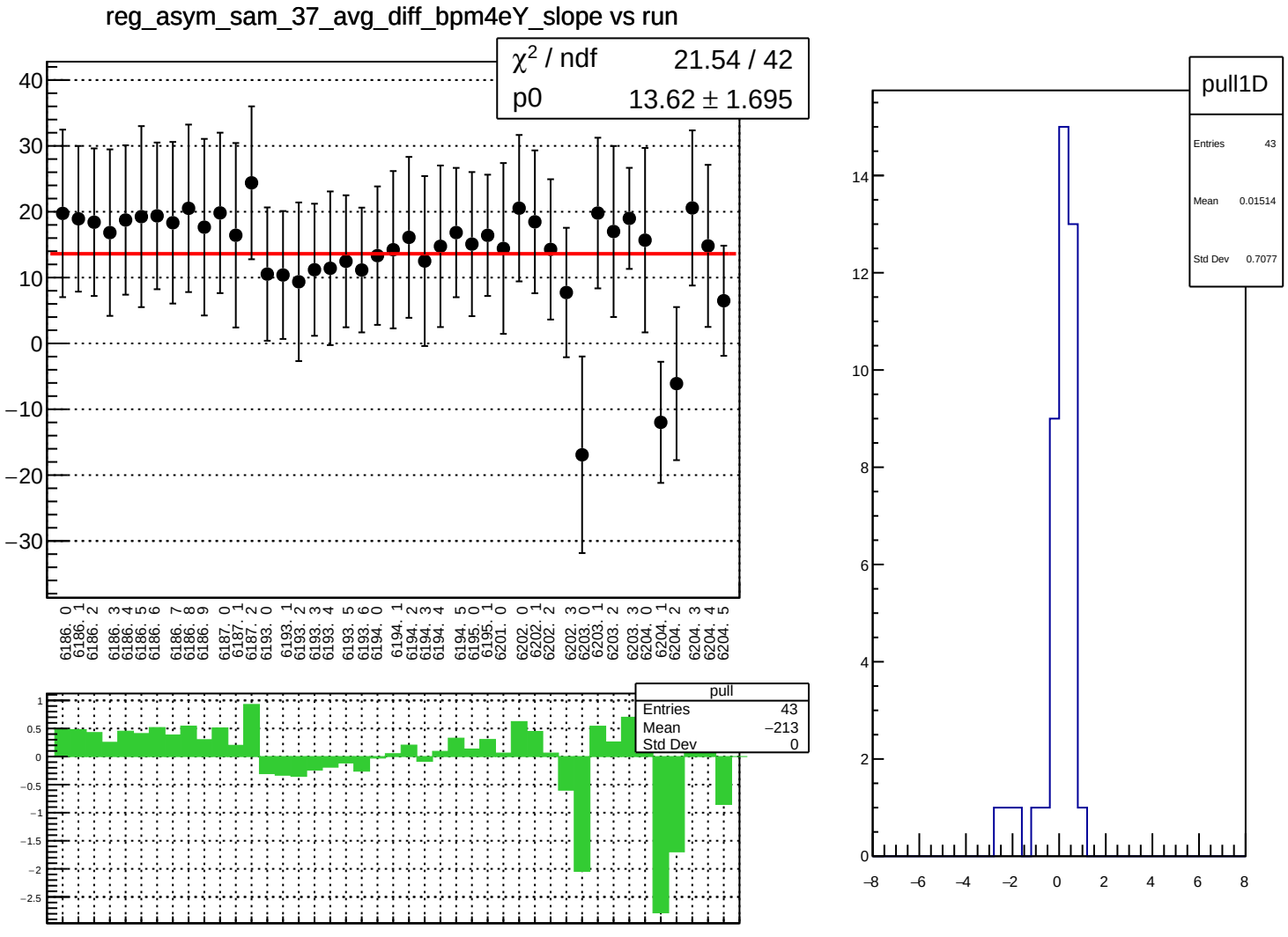

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.726 / 42
p0 −40.59 ± 1.272
−25
−30
−35
−40
−45
−50
−55
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −135
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean −0.003888
Std Dev 0.2944
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

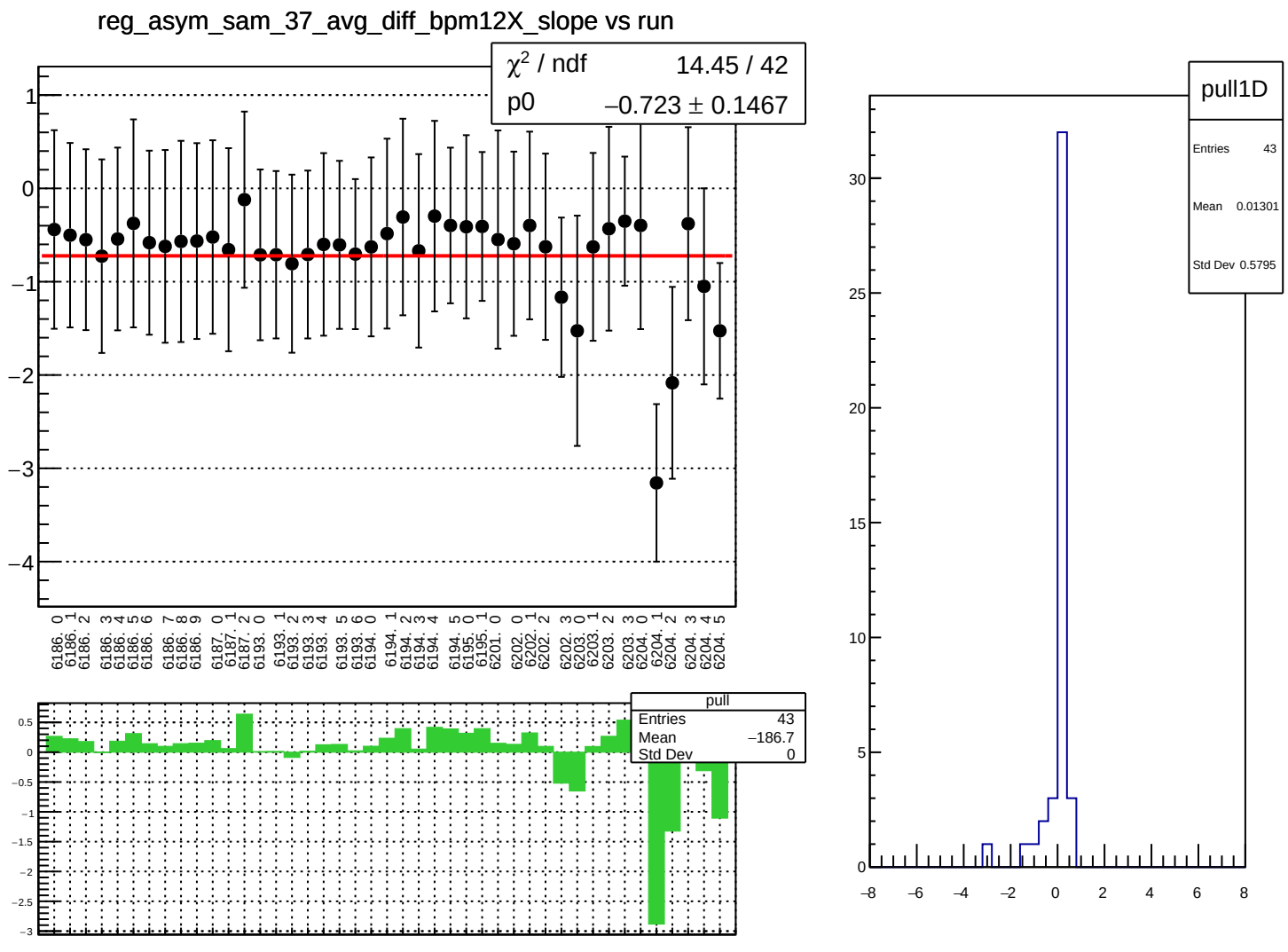

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 3.525 / 42
p0 0.5854 ± 0.1093
pull
Entries 43
Mean −113.6
Std Dev 0
pull1D
Entries 43
Mean −0.007968
Std Dev 0.2862

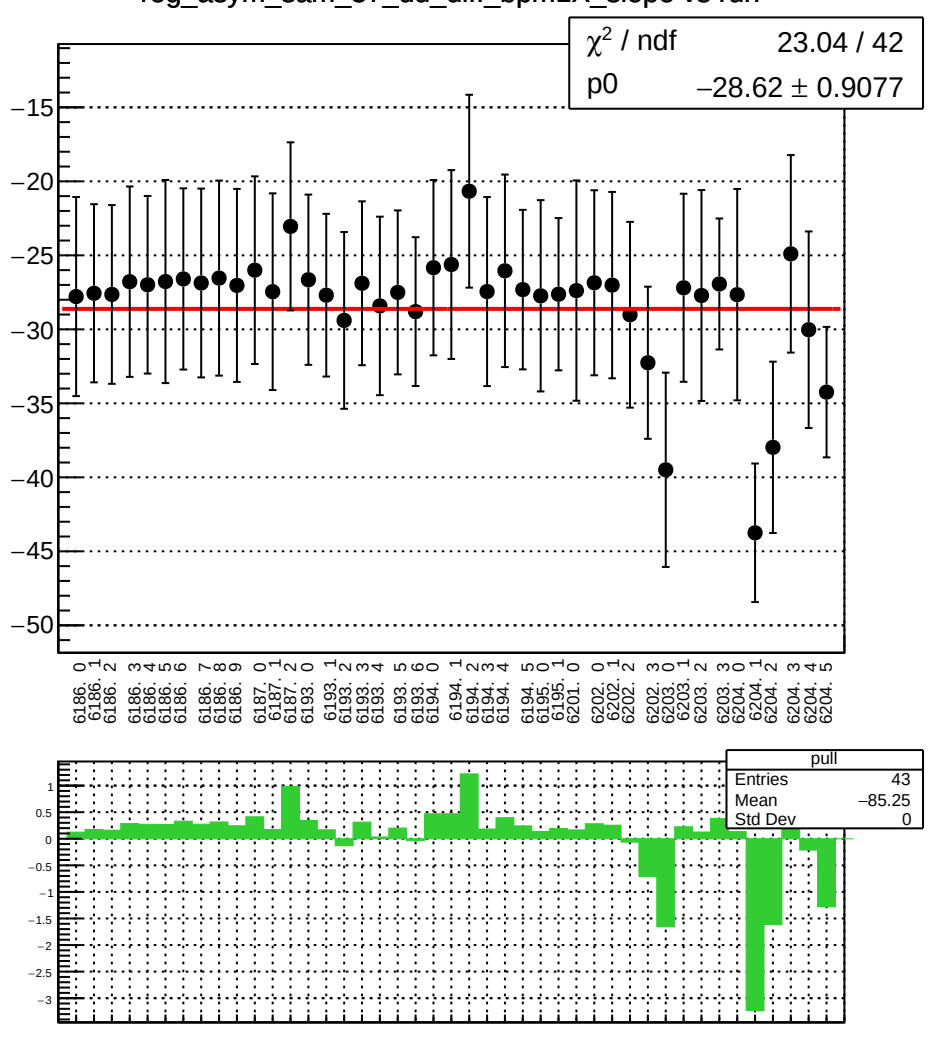

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 35.35 / 42
p0 −5.309 ± 1.618
pull
Entries 43
Mean −68.87
Std Dev 0
pull1D
Entries 43
Mean 0.05557
Std Dev 0.9051

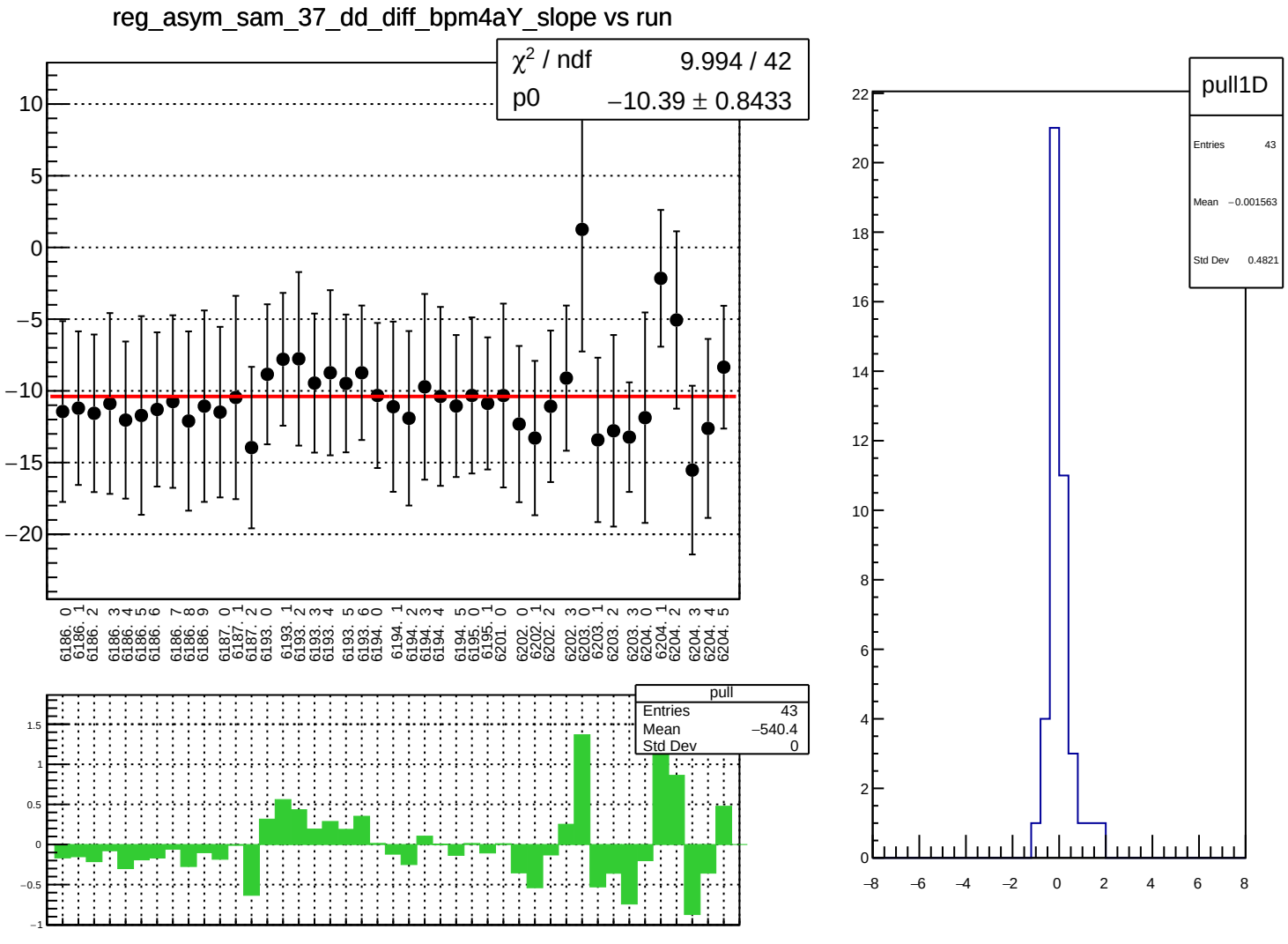

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.43 / 42
p0 −2.327 ± 1.504
pull
Entries 43
Mean −572.2
Std Dev 0
pull1D
Entries 43
Mean −0.006326
Std Dev 0.6722

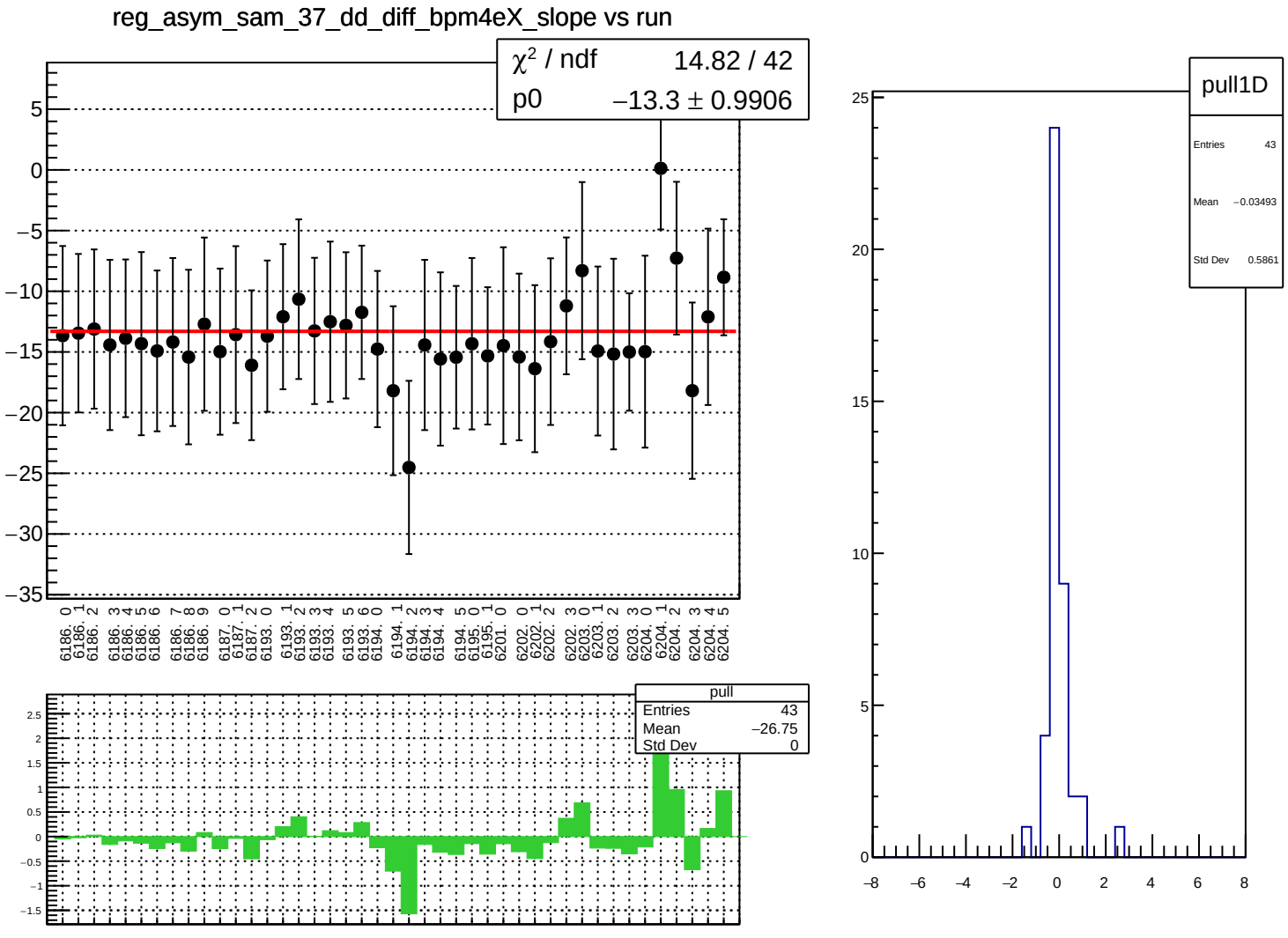

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.59 / 42
p0 −73.84 ± 1.765
pull
Entries 43
Mean −47.18
Std Dev 0
pull1D
Entries 43
Mean −0.05364
Std Dev 0.7993

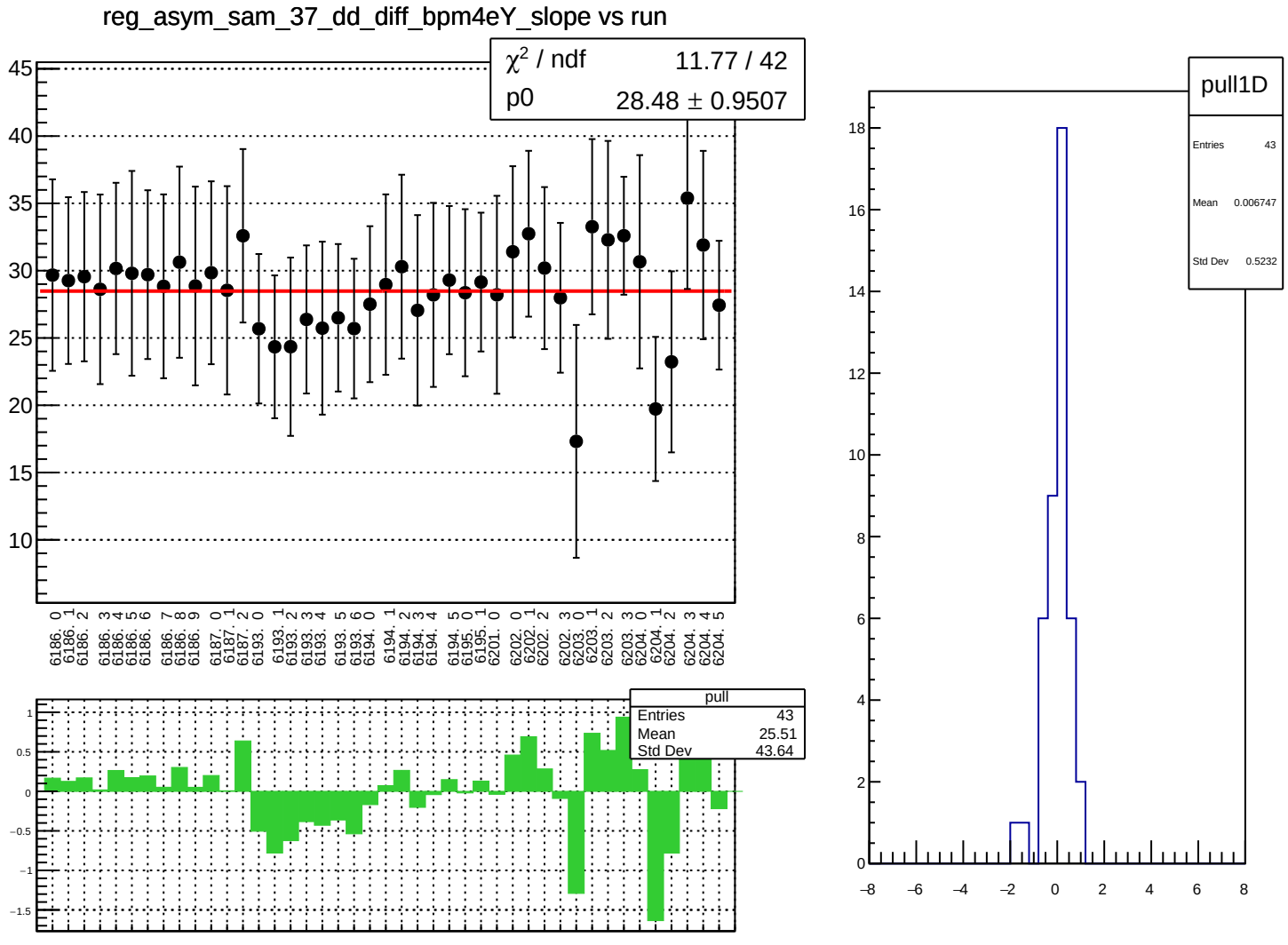

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.54 / 42
p0 13.62 ± 1.695
pull
Entries 43
Mean −213
Std Dev 0
pull1D
Entries 43
Mean 0.01514
Std Dev 0.7077

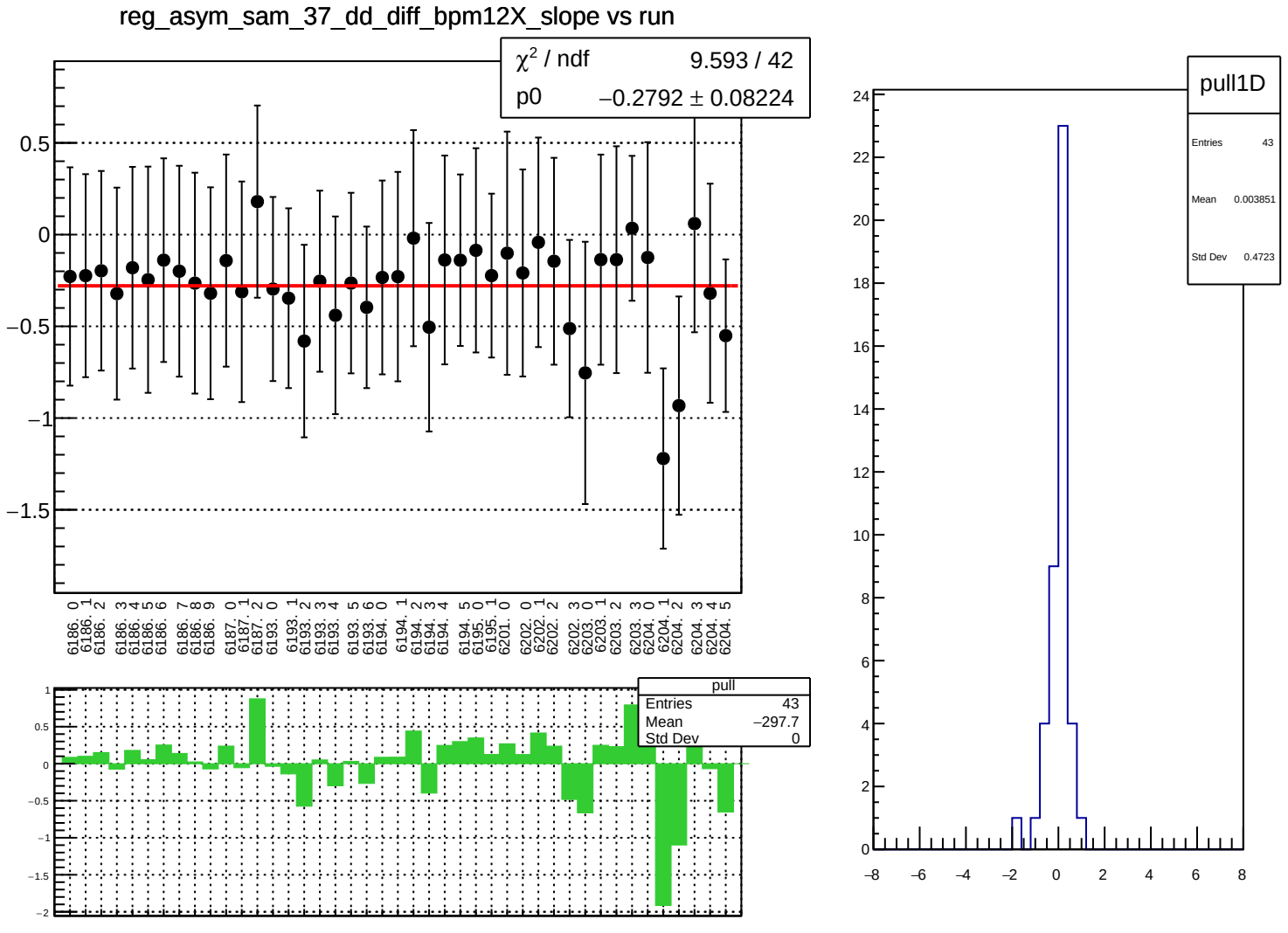

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 14.45 / 42
p0 −0.723 ± 0.1467
pull
Entries 43
Mean −186.7
Std Dev 0
pull1D
Entries 43
Mean 0.01301
Std Dev 0.5795

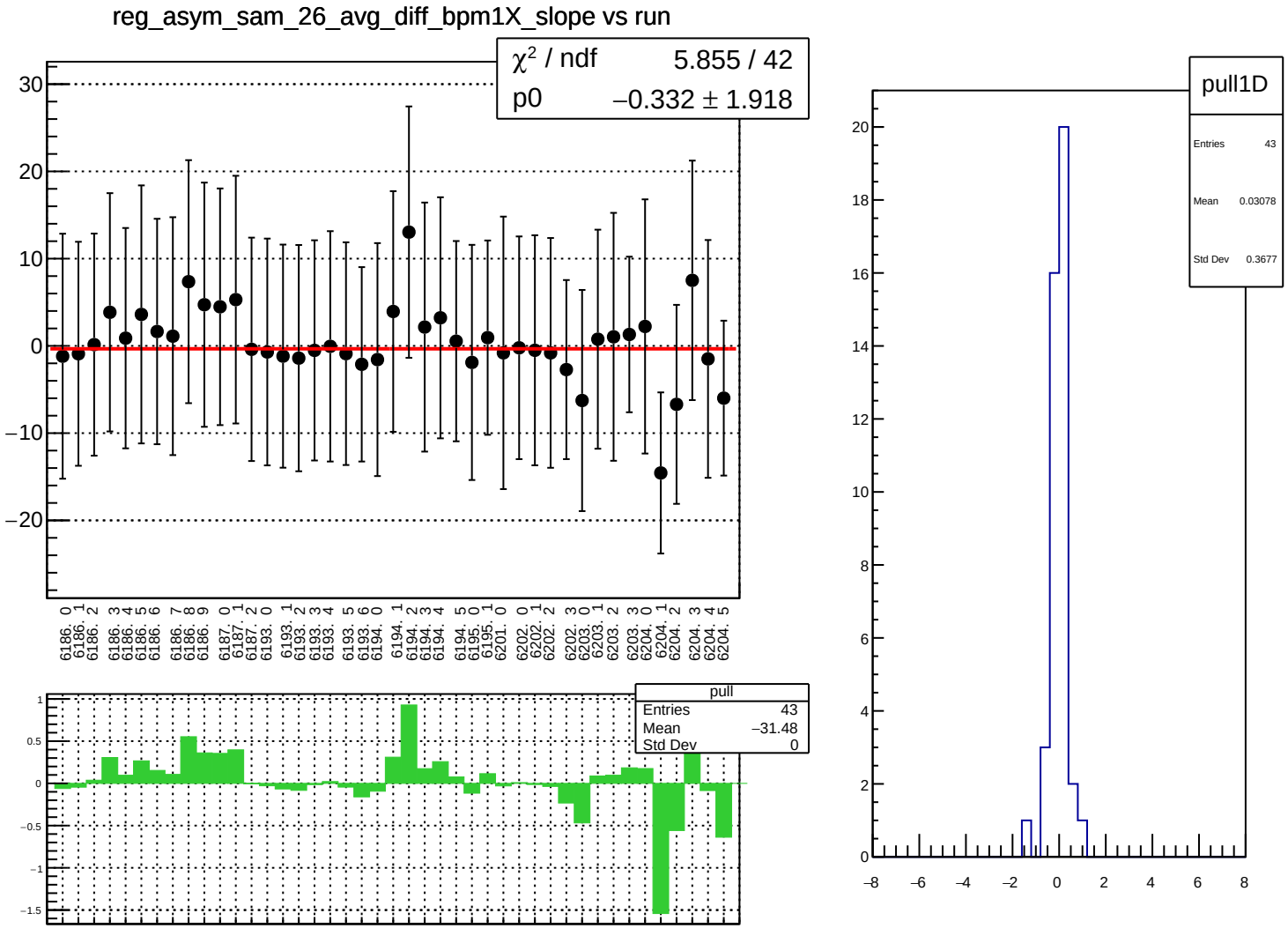

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 23.04 / 42
p0 −28.62 ± 0.9077
−15
−20
−25
−30
−35
−40
−45
−50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −85.25
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 43
Mean 0.03681
Std Dev 0.7311
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

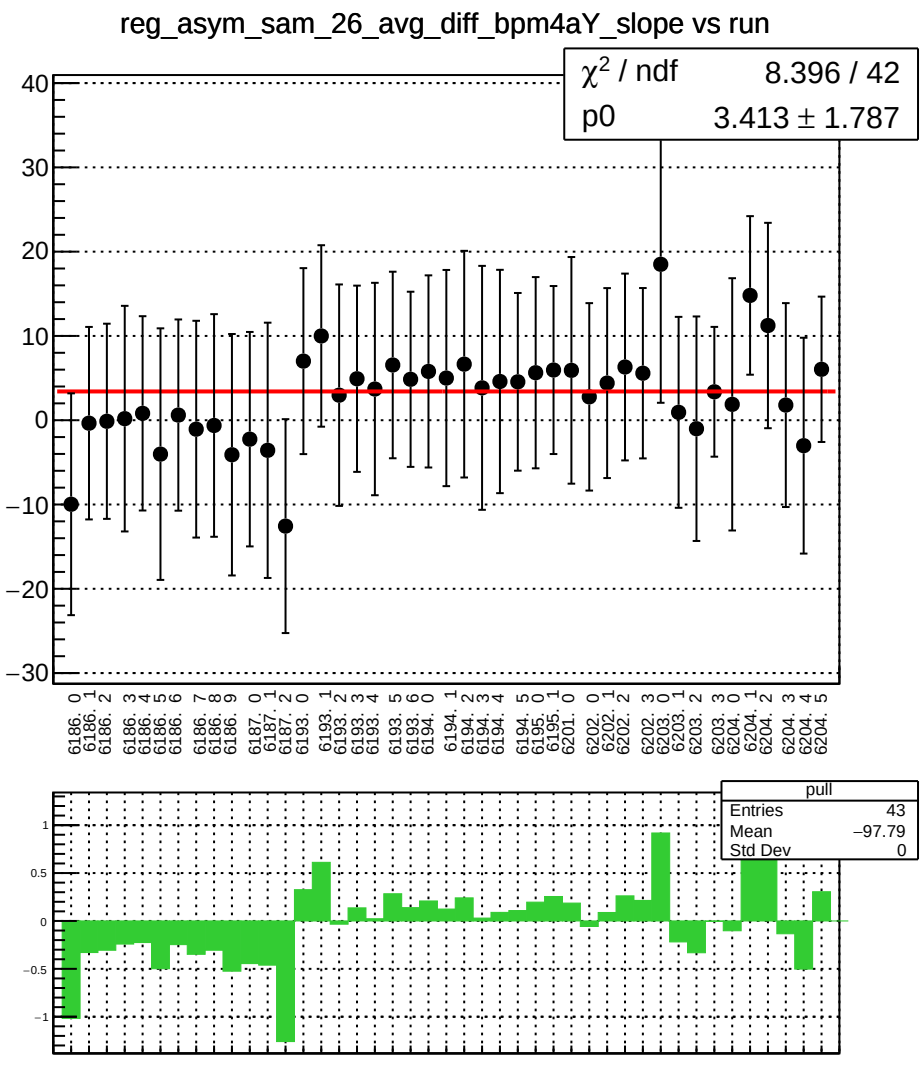

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.994 / 42
p0 −10.39 ± 0.8433
pull
Entries 43
Mean −540.4
Std Dev 0
pull1D
Entries 43
Mean −0.001563
Std Dev 0.4821

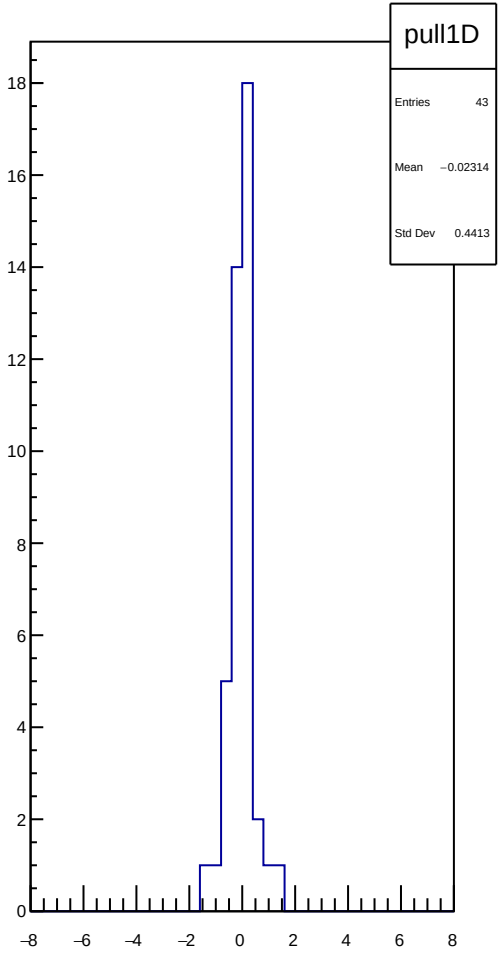

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.82 / 42
p0 −13.3 ± 0.9906
pull
Entries 43
Mean −26.75
Std Dev 0
pull1D
Entries 43
Mean −0.03493
Std Dev 0.5861

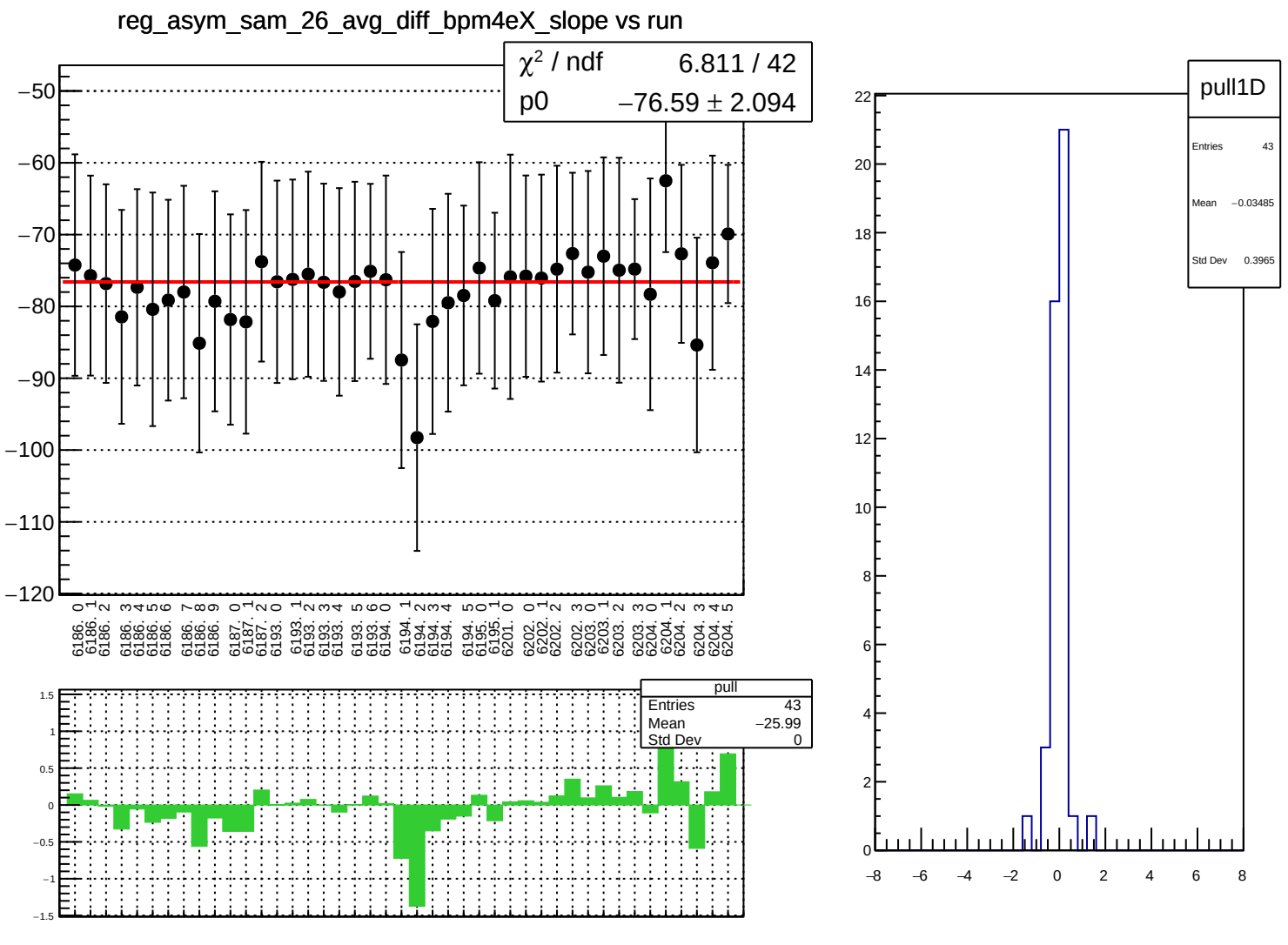

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.77 / 42
p0 28.48 ± 0.9507
45
40
35
30
25
20
15
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 25.51
Std Dev 43.64
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.006747
Std Dev 0.5232
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

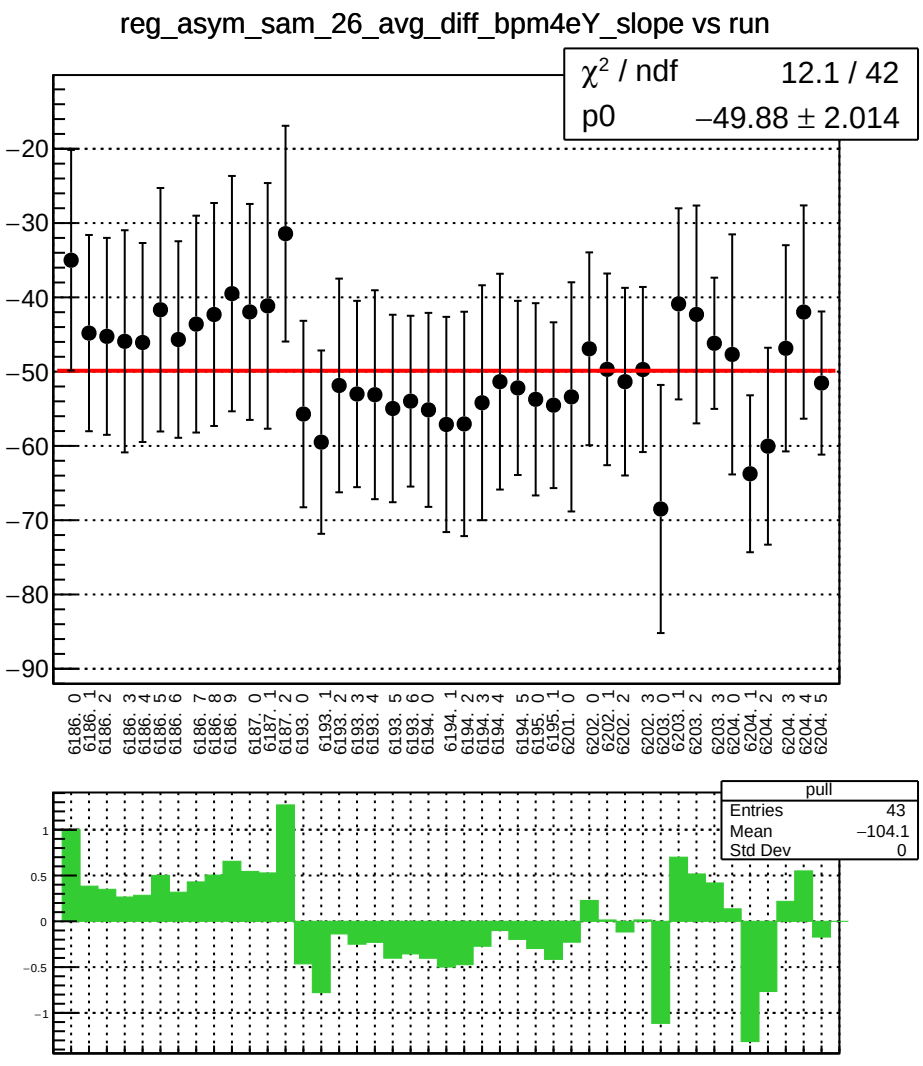

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 9.593 / 42
p0 −0.2792 ± 0.08224
0.5
0
−0.5
−1
−1.5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −297.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.003851
Std Dev 0.4723
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

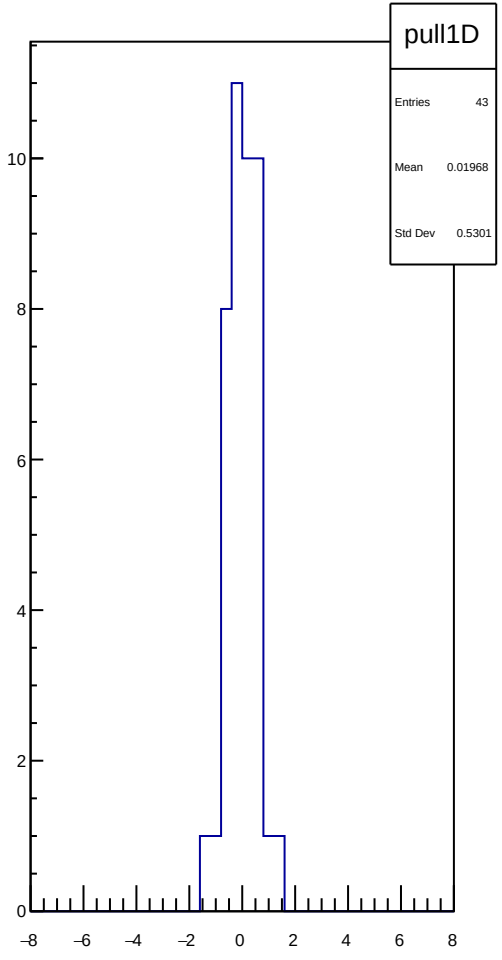

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 5.855 / 42
p0 −0.332 ± 1.918
pull
Entries 43
Mean −31.48
Std Dev 0
pull1D
Entries 43
Mean 0.03078
Std Dev 0.3677

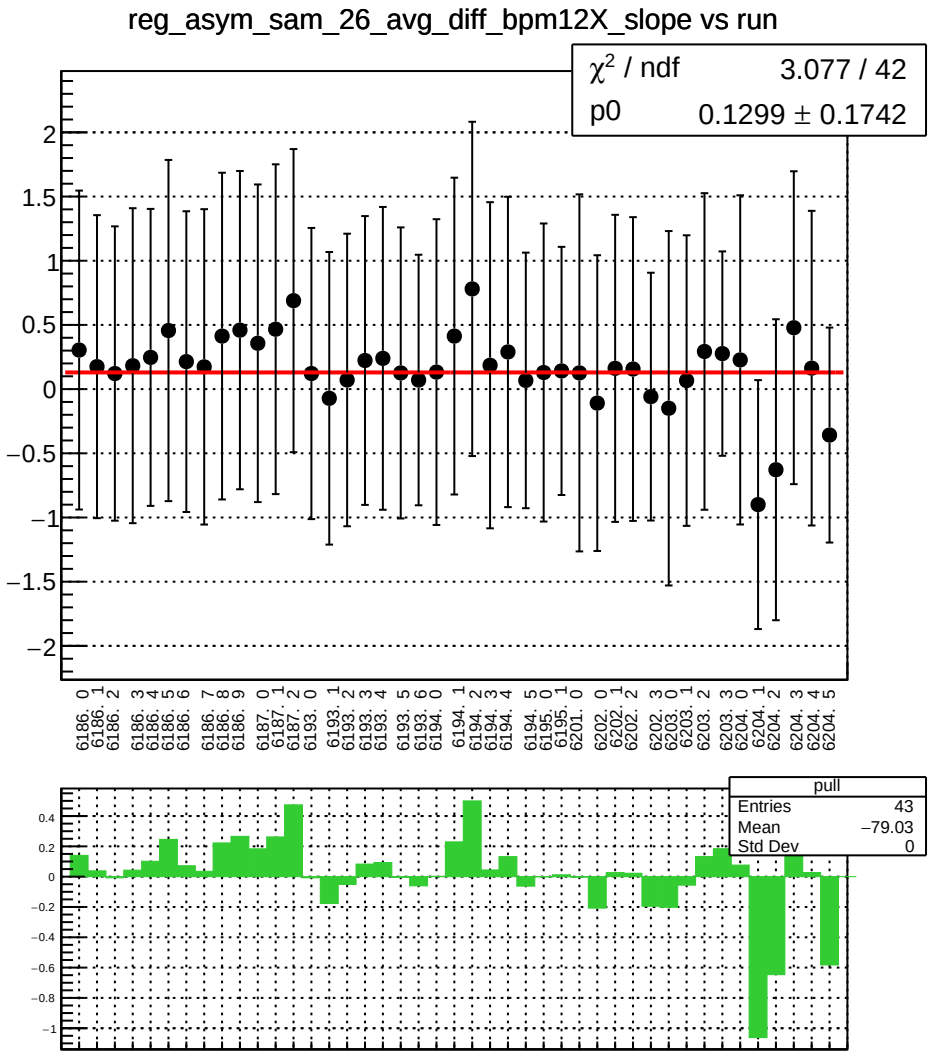

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.396 / 42
p0 3.413 ± 1.787
pull
Entries 43
Mean −97.79
Std Dev 0

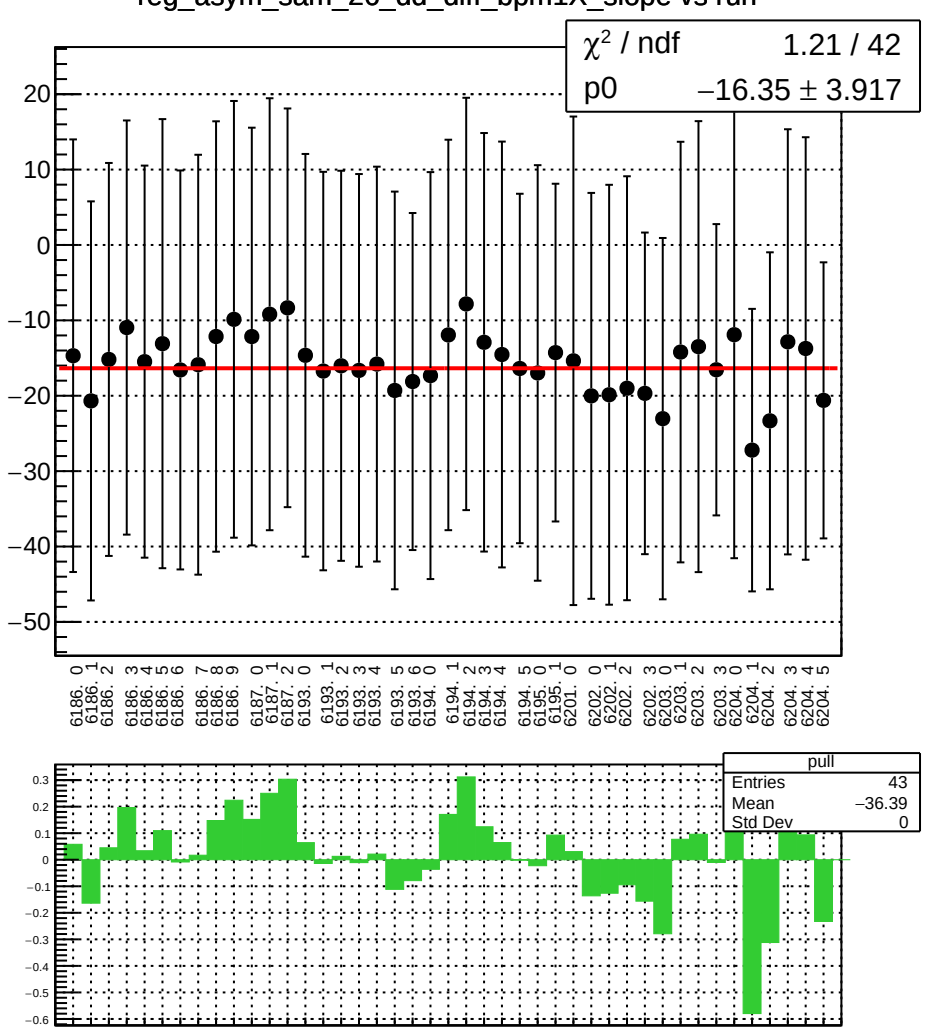

pull1D
Entries 43
Mean −0.02314
Std Dev 0.4413

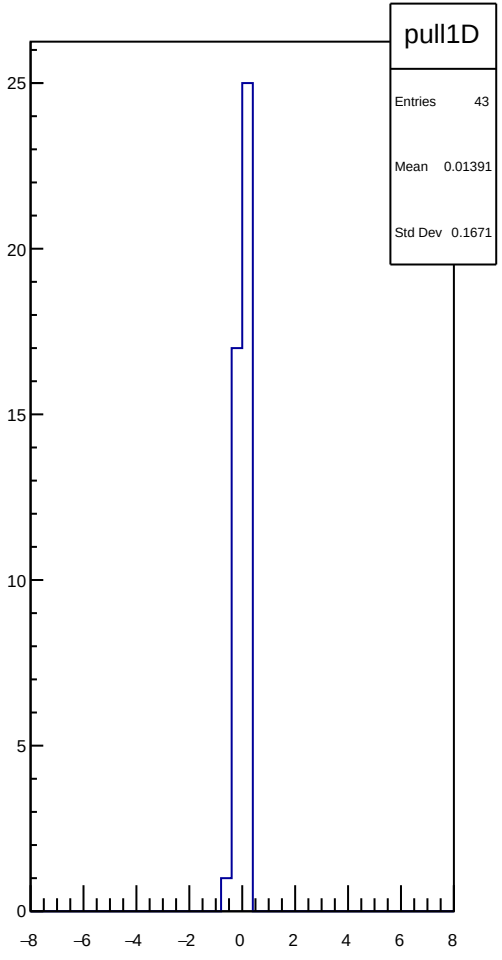

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.811 / 42
p0 −76.59 ± 2.094
pull
Entries 43
Mean −25.99
Std Dev 0
pull1D
Entries 43
Mean −0.03485
Std Dev 0.3965

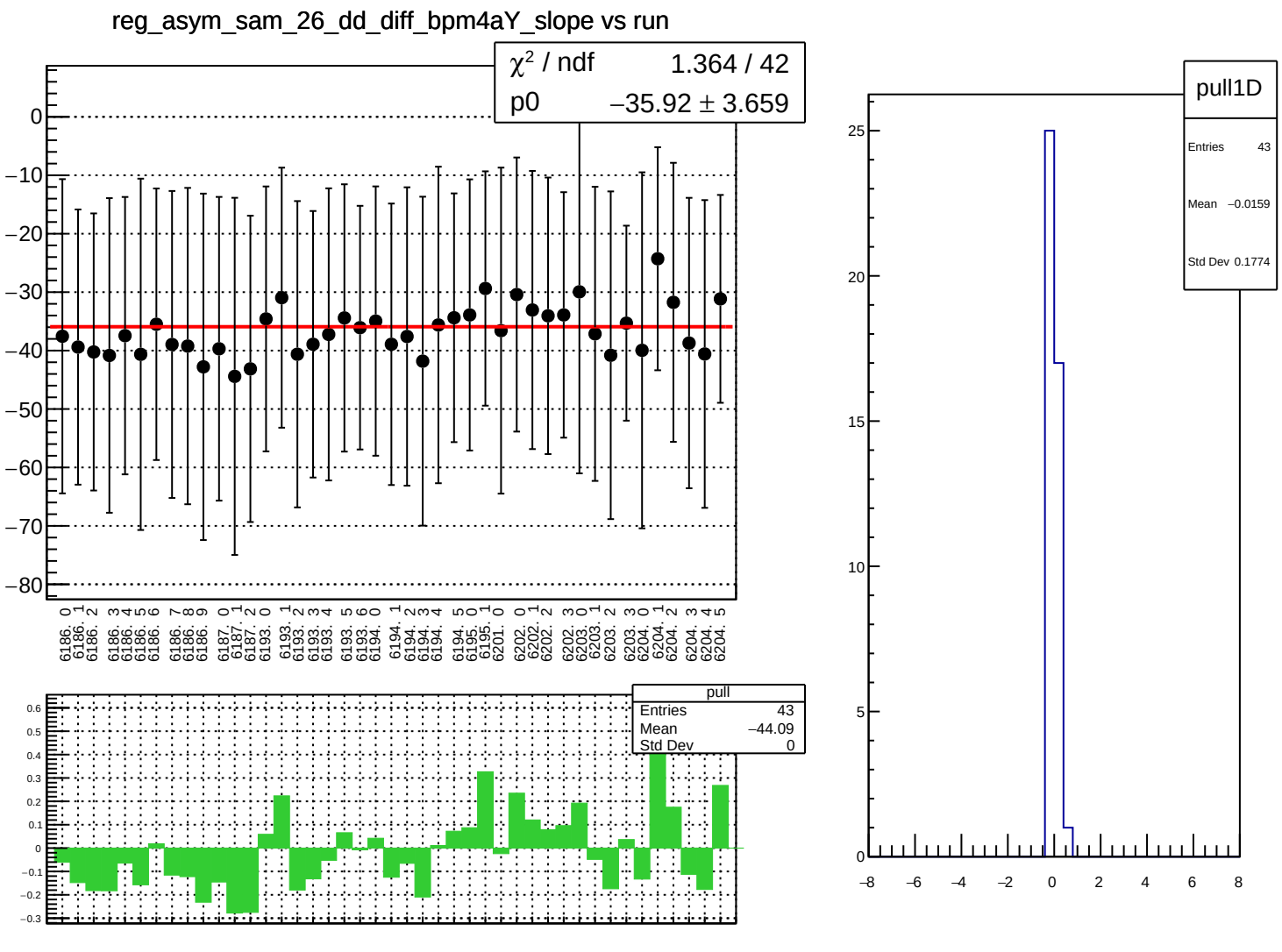

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.1 / 42
p0 −49.88 ± 2.014
pull
Entries 43
Mean −104.1
Std Dev 0

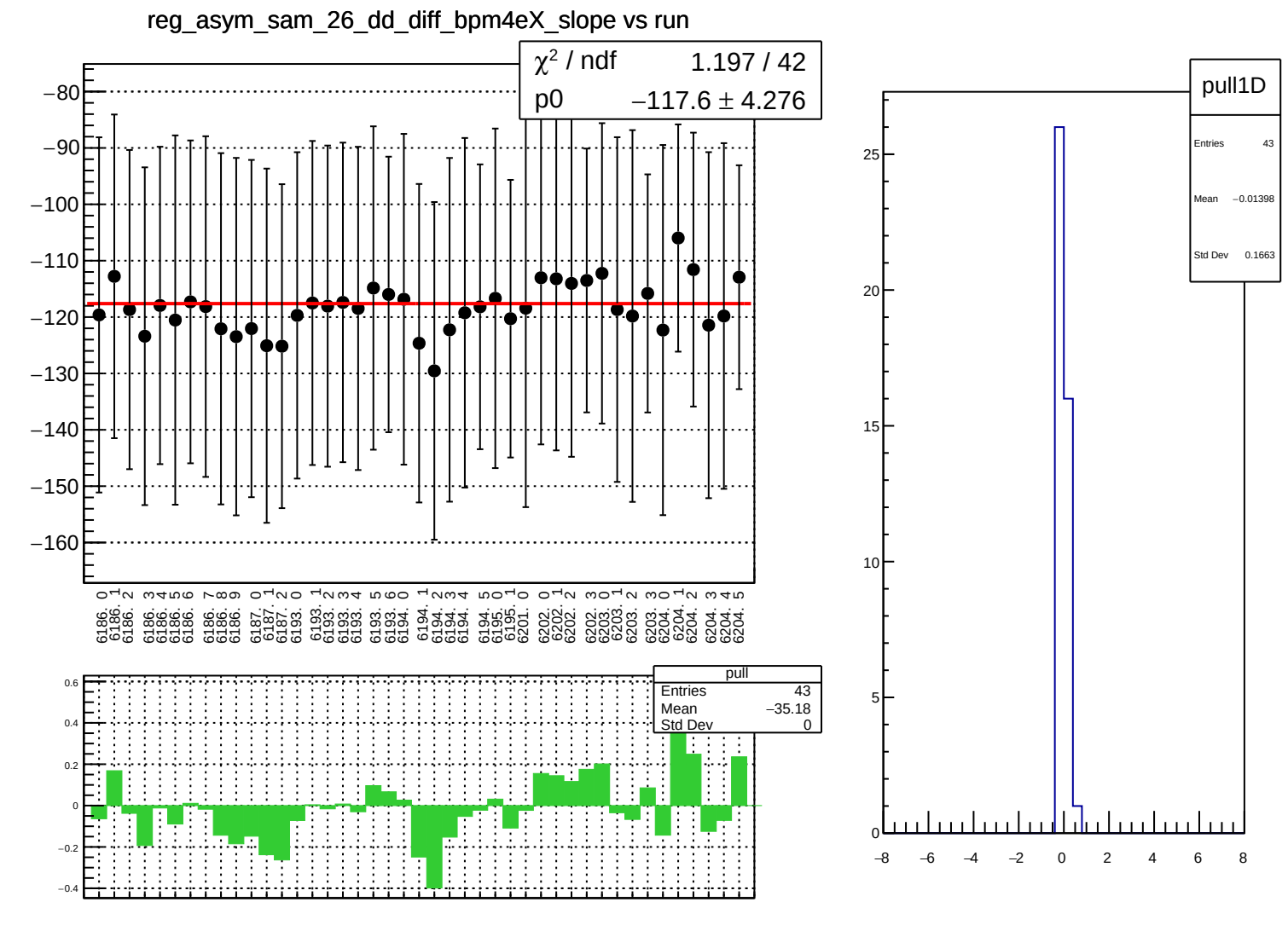

pull1D
Entries 43
Mean 0.01968
Std Dev 0.5301

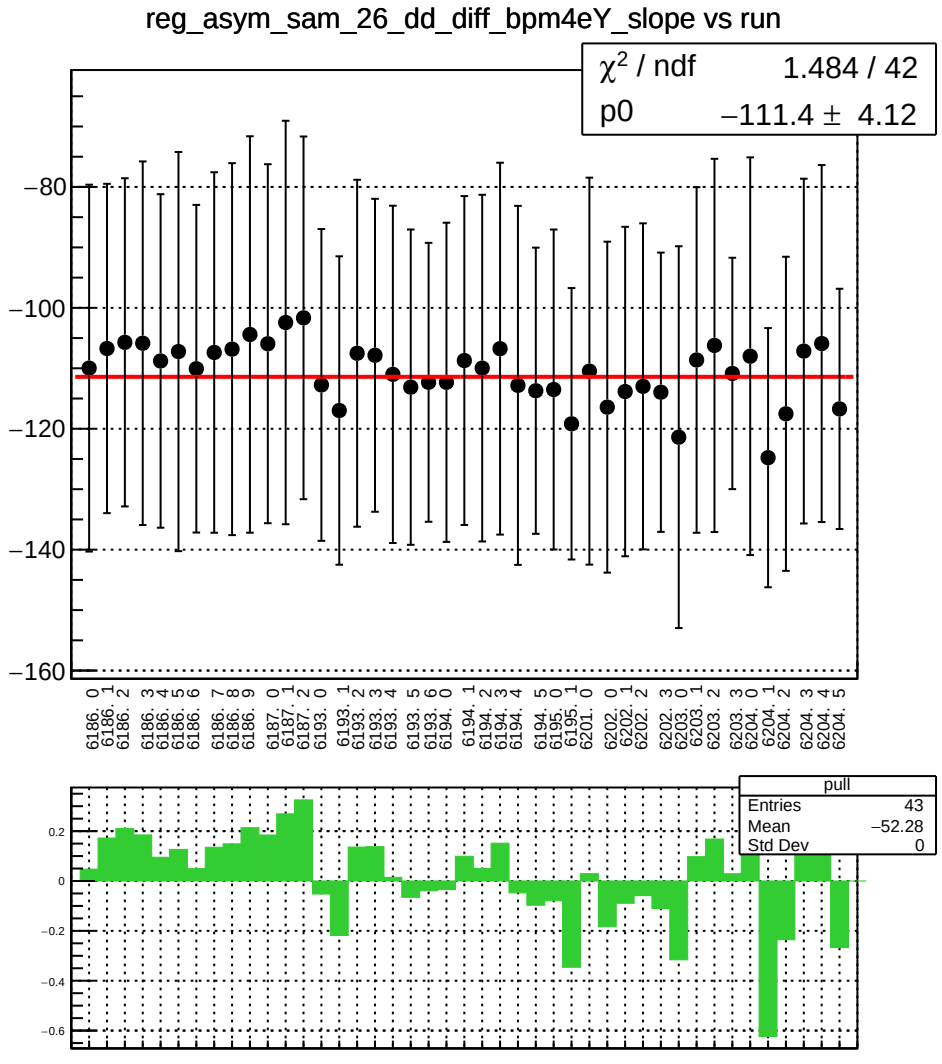

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 3.077 / 42
p0 0.1299 ± 0.1742
pull
Entries 43
Mean −79.03
Std Dev 0
pull1D
Entries 43
Mean 0.01421
Std Dev 0.2671

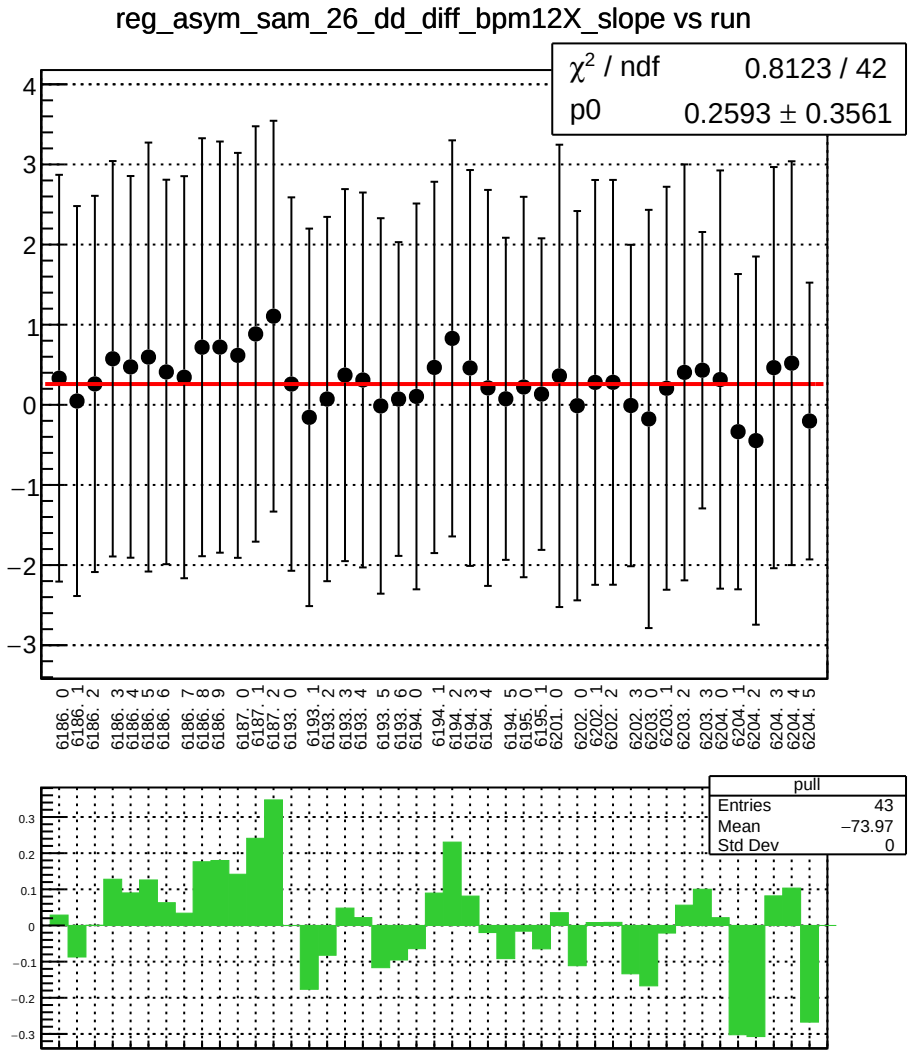

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.21 / 42
p0 −16.35 ± 3.917
pull
Entries 43
Mean −36.39
Std Dev 0

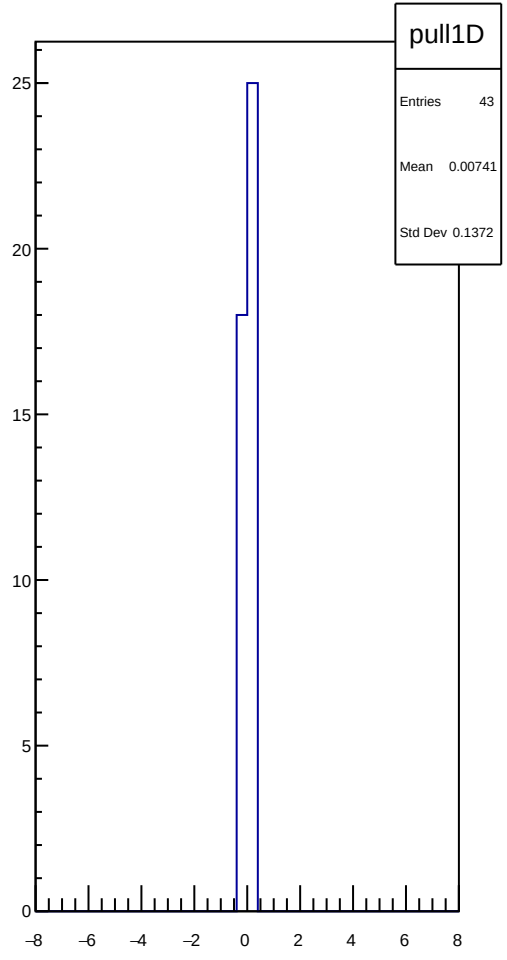

pull1D
Entries 43
Mean 0.01391
Std Dev 0.1671

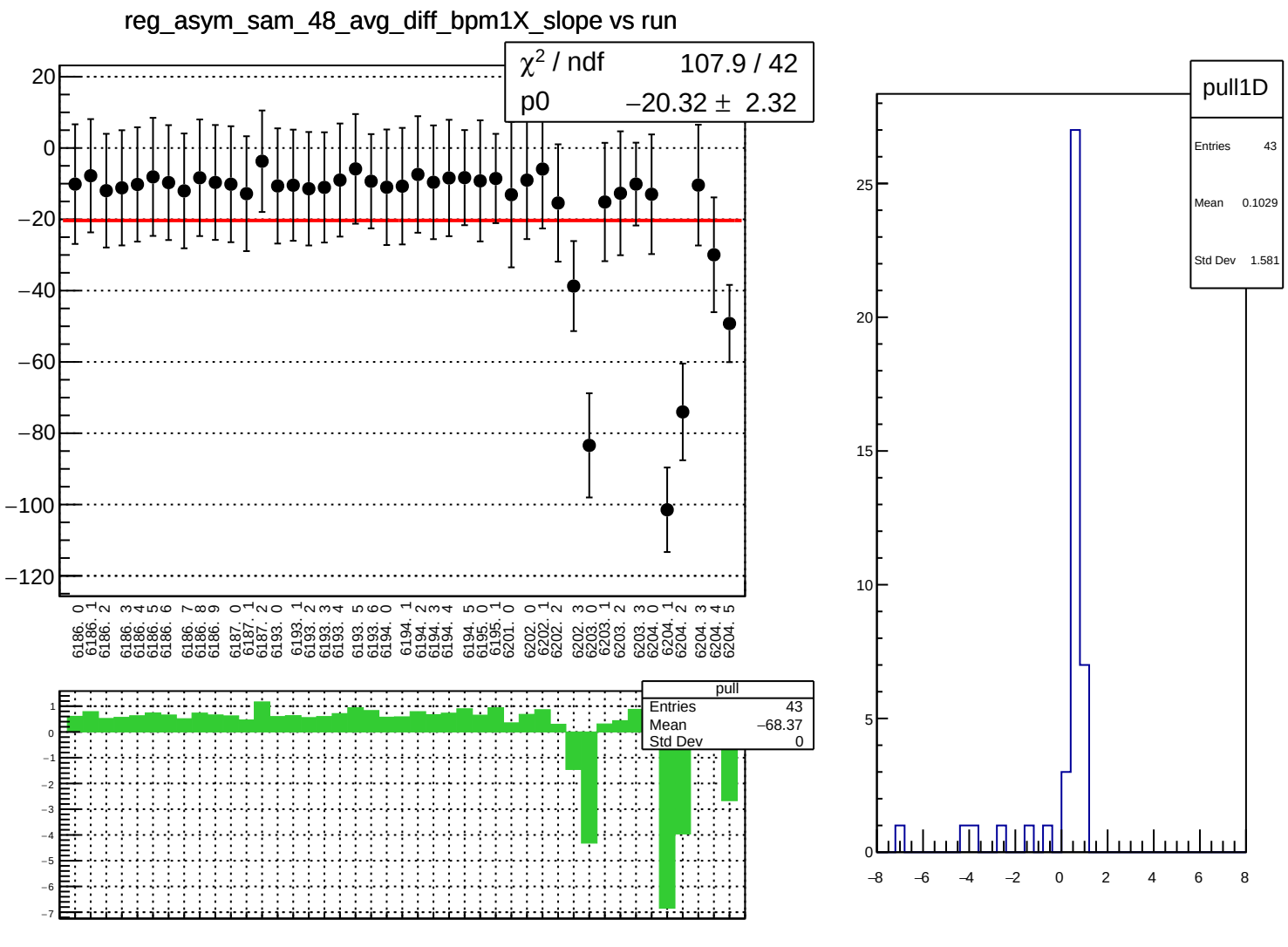

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.364 / 42
p0 −35.92 ± 3.659
pull
Entries 43
Mean −44.09
Std Dev 0
pull1D
Entries 43
Mean −0.0159
Std Dev 0.1774

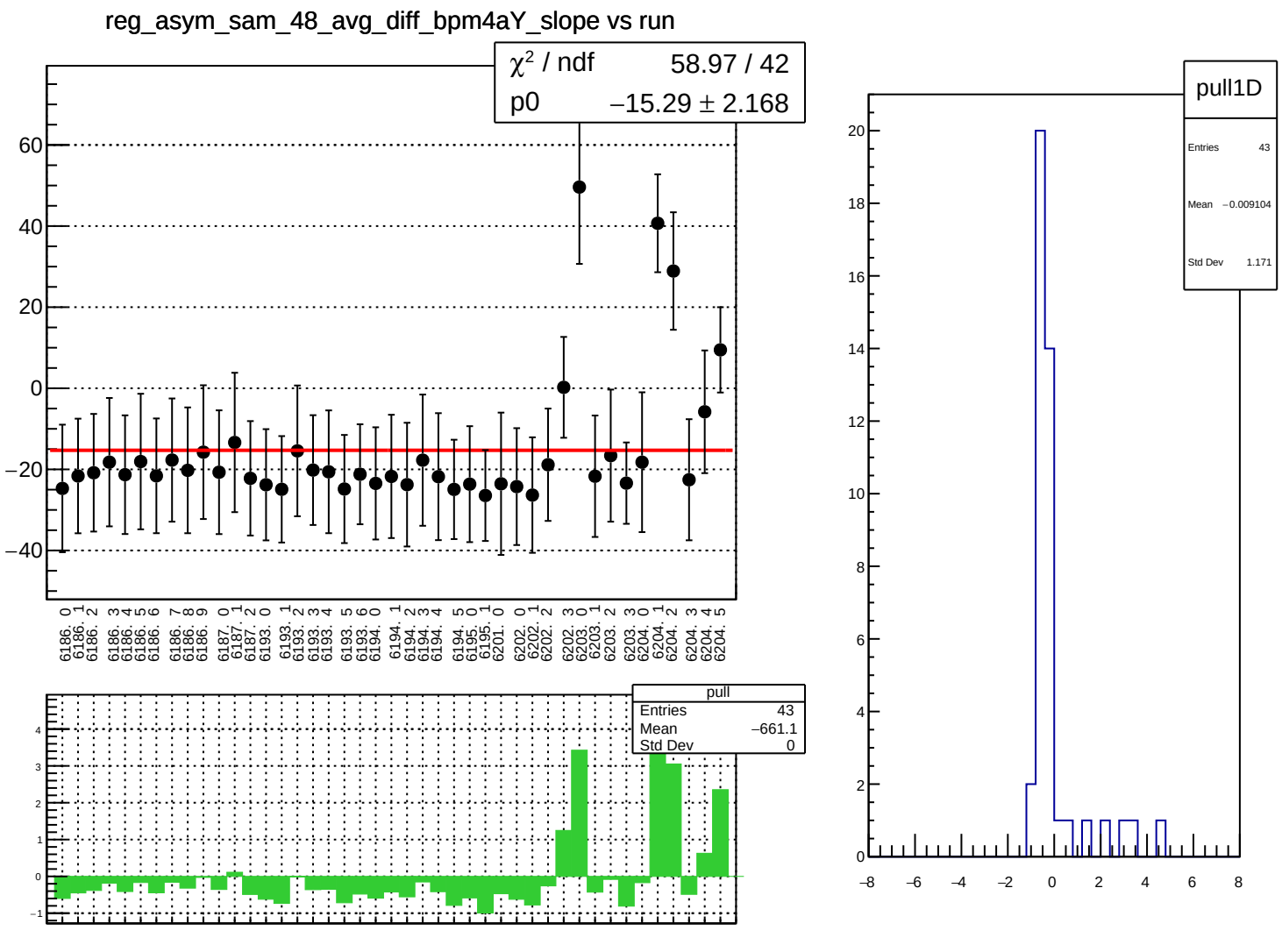

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.197 / 42
p0 −117.6 ± 4.276
−80
−90
−100
−110
−120
−130
−140
−150
−160
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −35.18
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 43
Mean −0.01398
Std Dev 0.1663
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

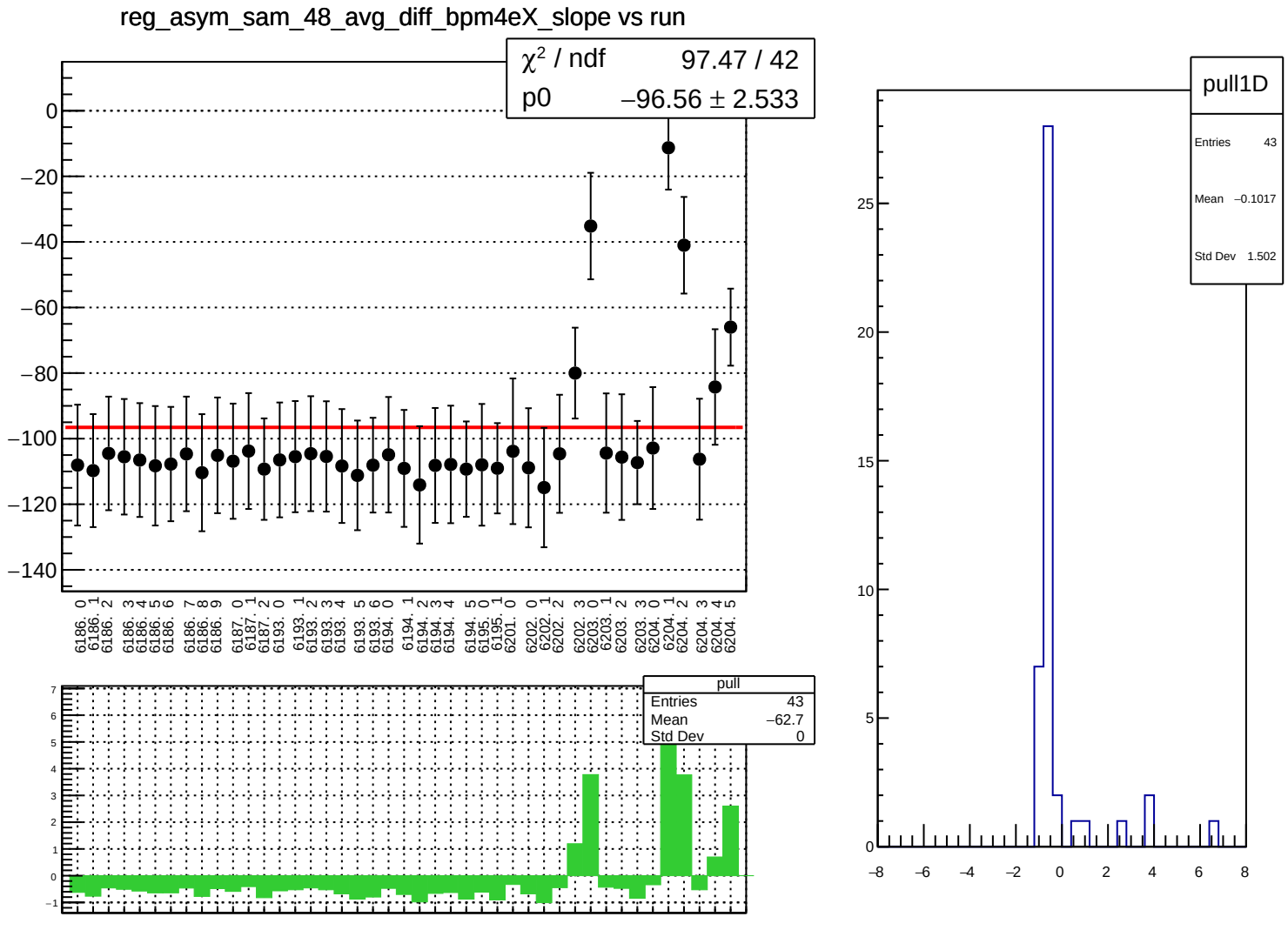

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.484 / 42
p0 −111.4 ± 4.12
−80
−100
−120
−140
−160
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −52.28
Std Dev 0
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean 0.01512
Std Dev 0.1852
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

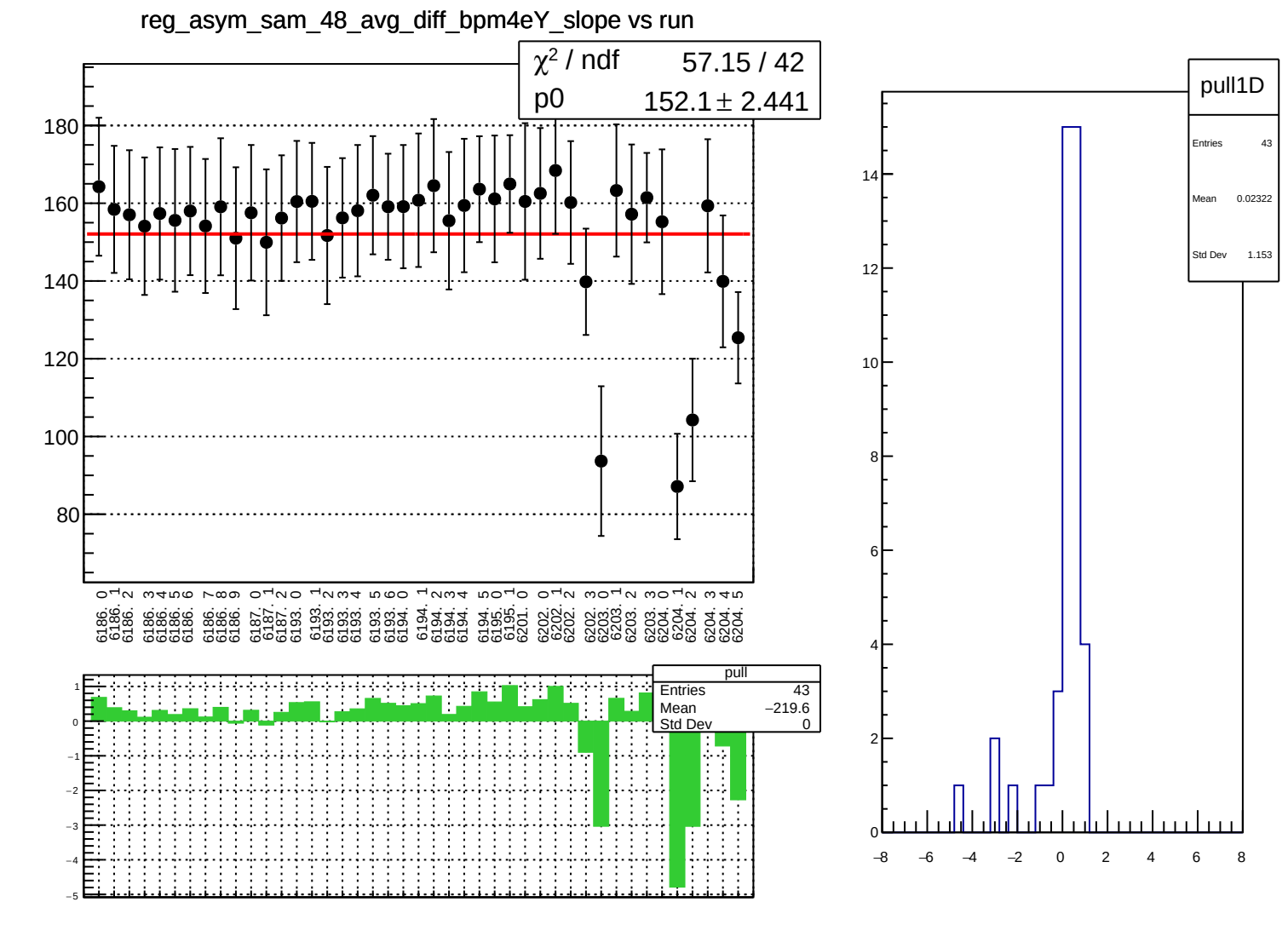

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8123 / 42
p0 0.2593 ± 0.3561
pull
Entries 43
Mean −73.97
Std Dev 0

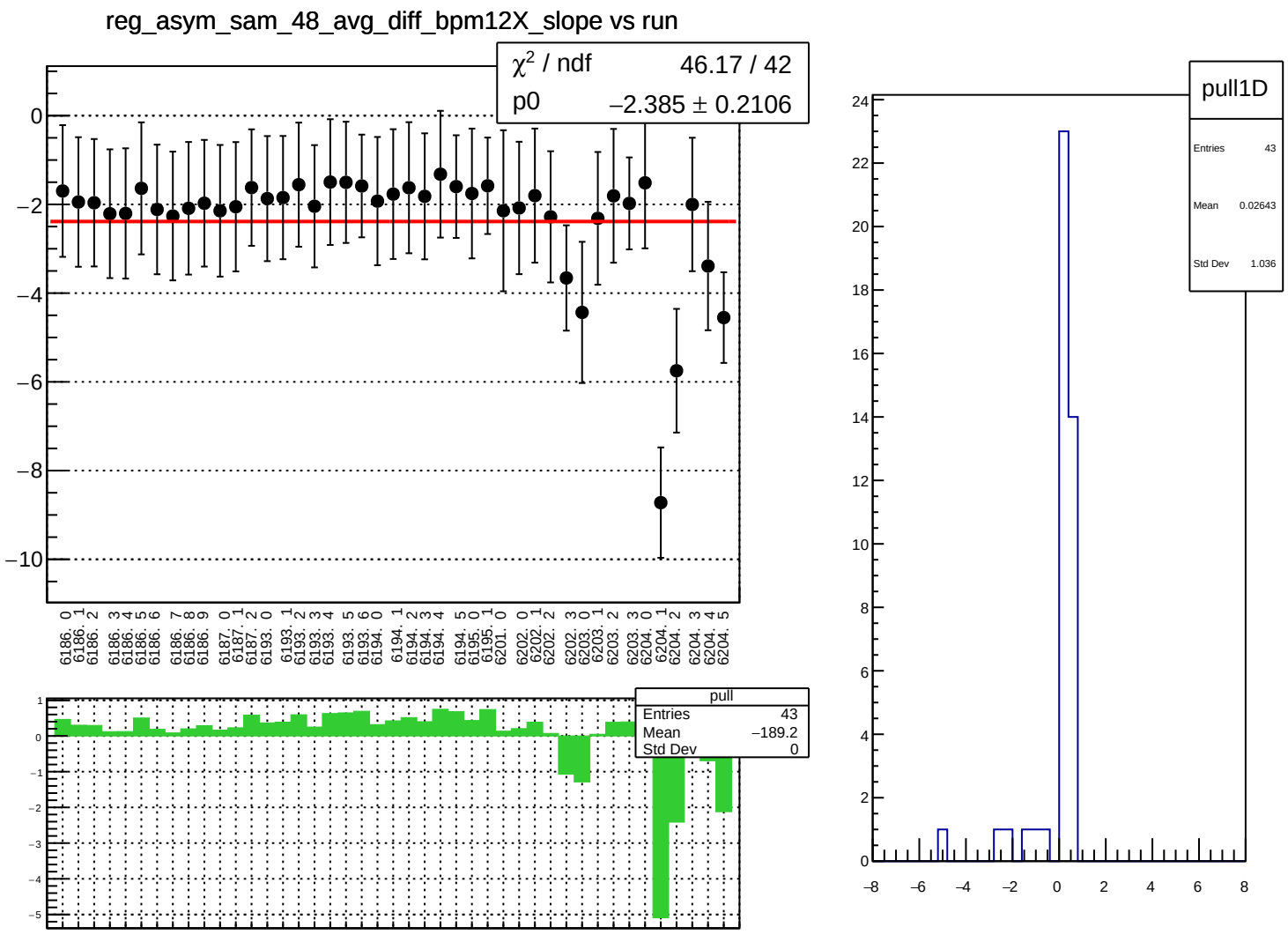

pull1D
Entries 43
Mean 0.00741
Std Dev 0.1372

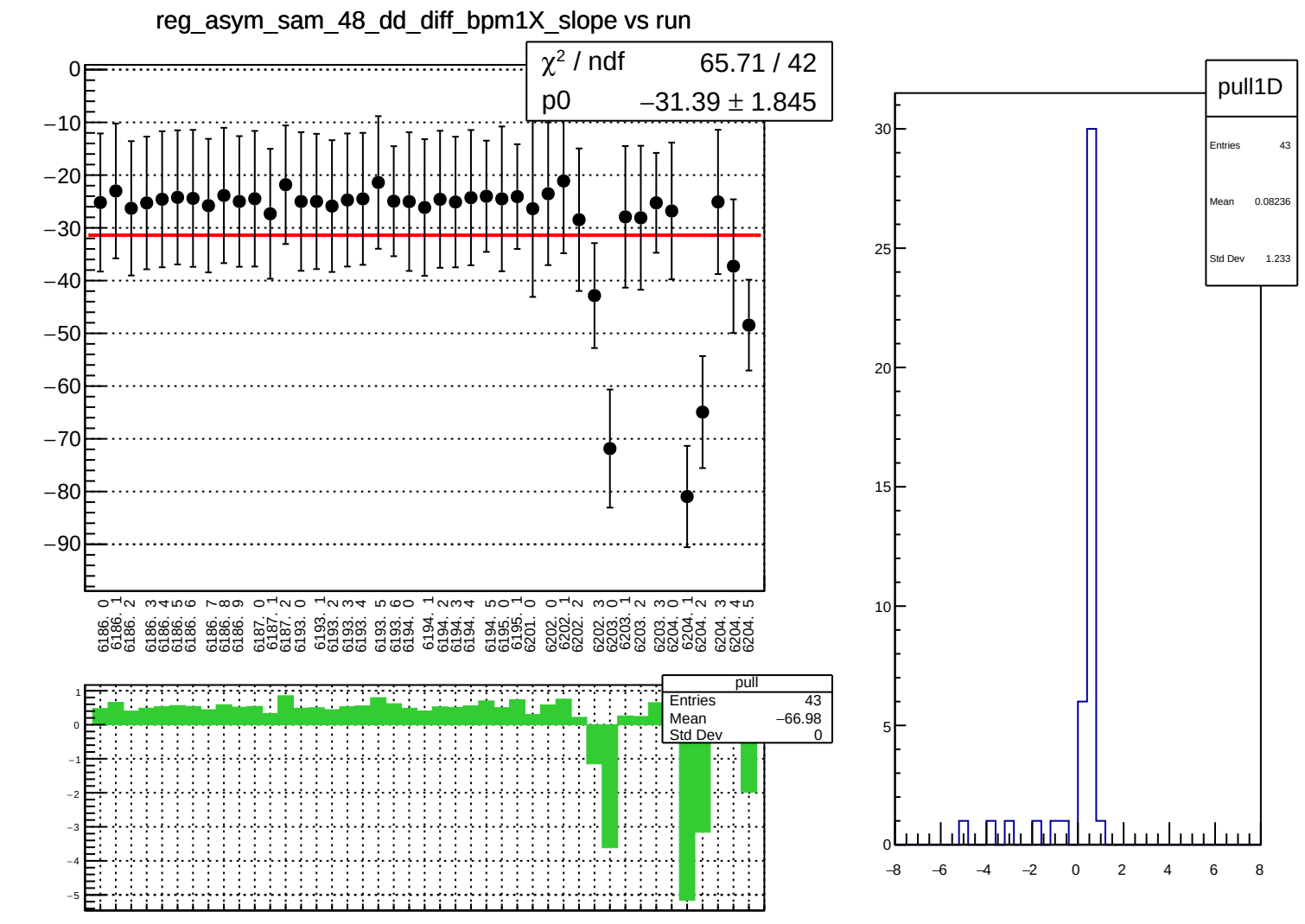

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 107.9 / 42
p0 −20.32 ± 2.32
pull
Entries 43
Mean −68.37
Std Dev 0
pull1D
Entries 43
Mean 0.1029
Std Dev 1.581

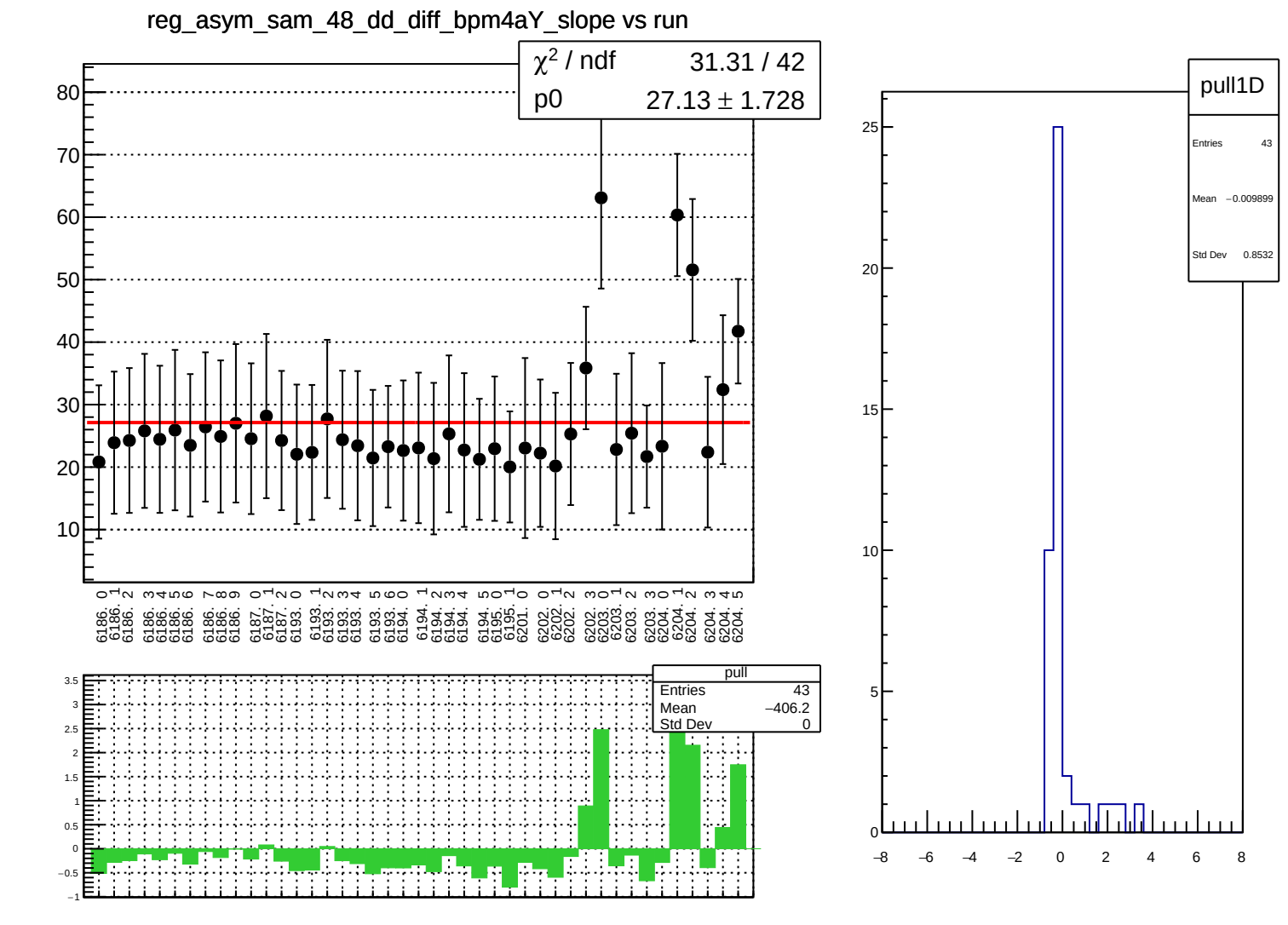

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 58.97 / 42
p0 −15.29 ± 2.168
60
40
20
0
−20
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −661.1
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 43
Mean −0.009104
Std Dev 1.171
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

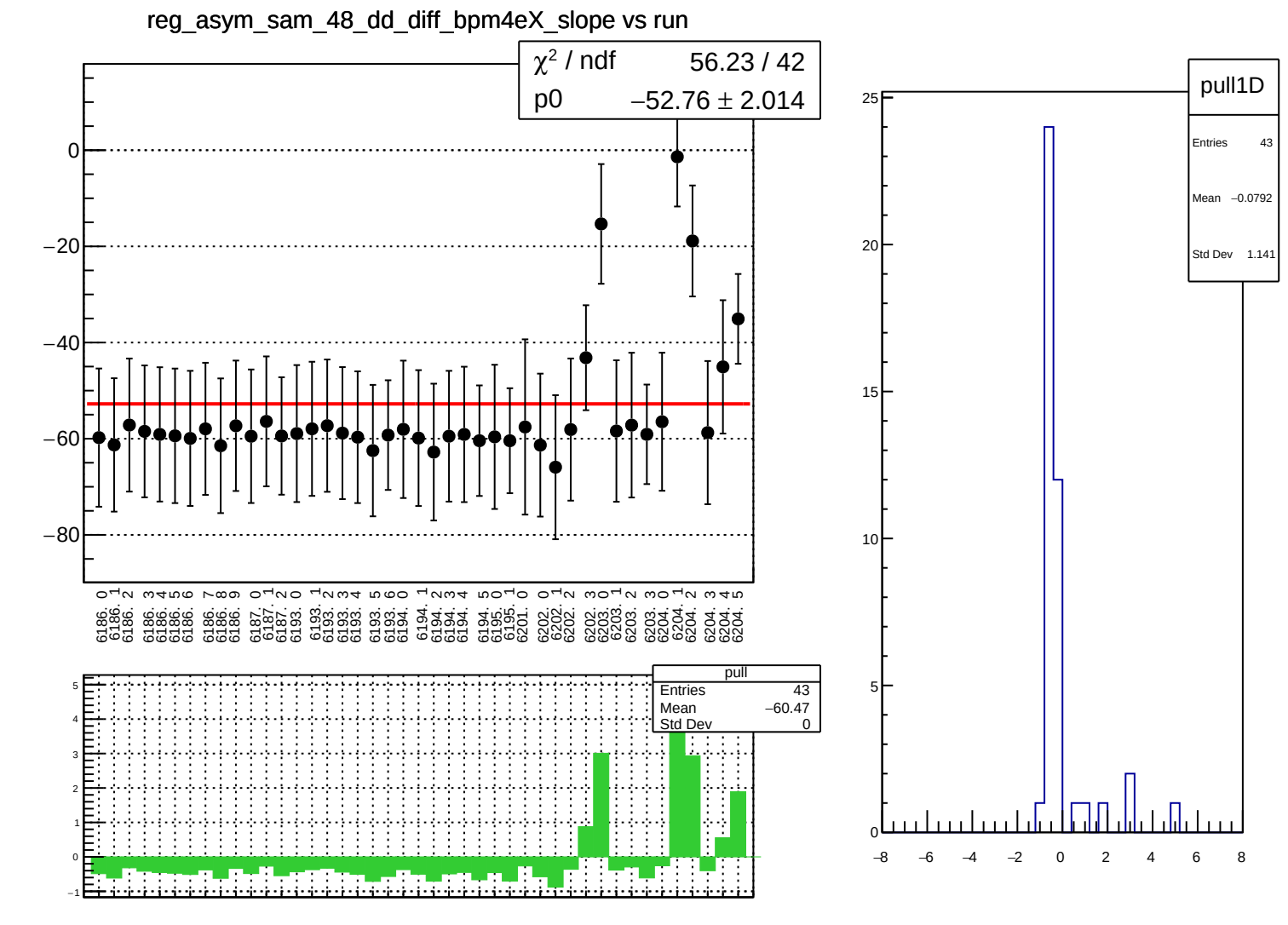

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 97.47 / 42
p0 −96.56 ± 2.533
0
−20
−40
−60
−80
−100
−120
−140
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −62.7
Std Dev 0
7
6
5
4
3
2
1
0
−1
pull1D
Entries 43
Mean −0.1017
Std Dev 1.502
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

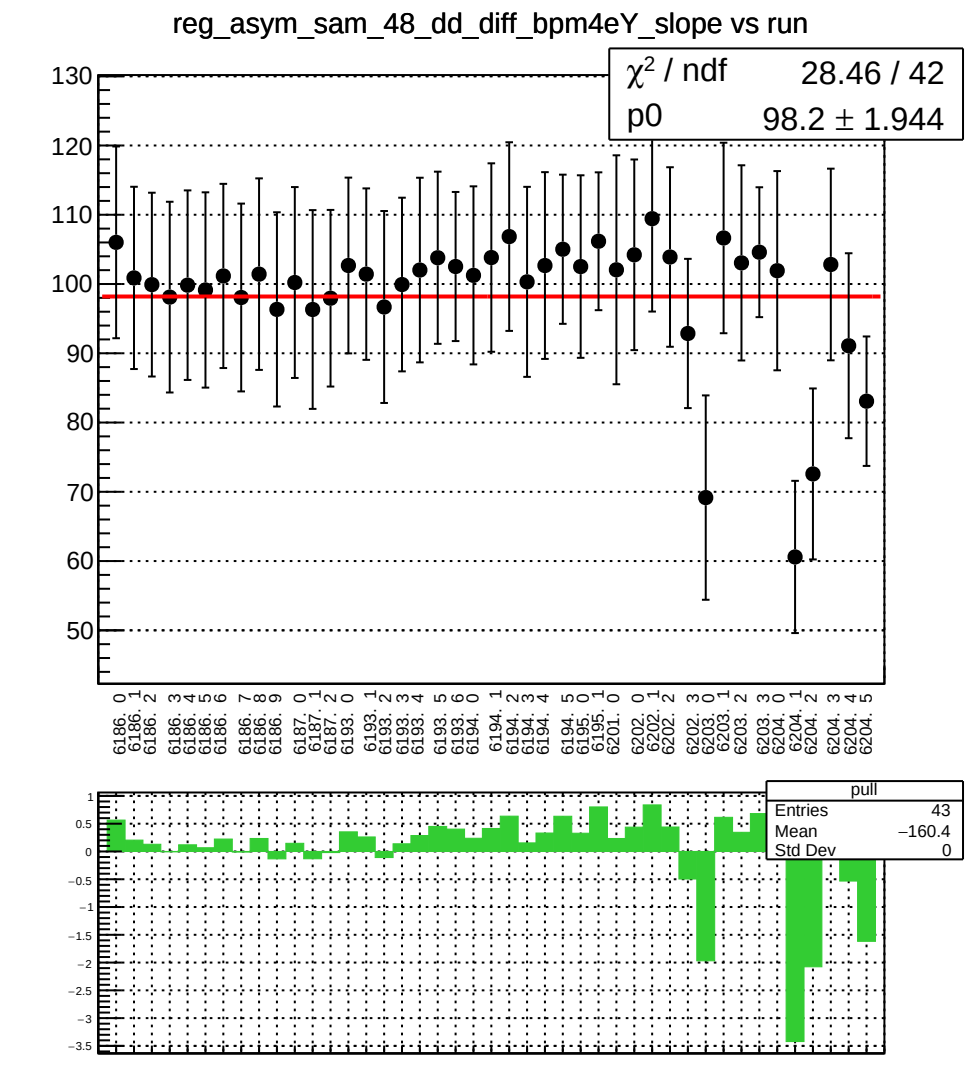

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 57.15 / 42
p0 152.1 ± 2.441
180
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −219.6
Std Dev 0
1
0
−1
−2
−3
−4
−5
pull1D
Entries 43
Mean 0.02322
Std Dev 1.153
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

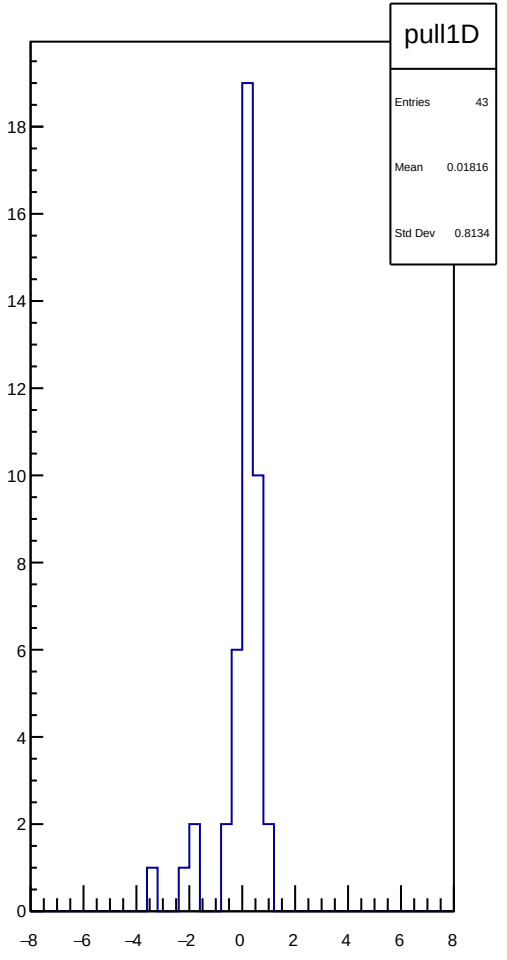

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 46.17 / 42
p0 −2.385 ± 0.2106
0
−2
−4
−6
−8
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −189.2
Std Dev 0
1
0
−1
−2
−3
−4
−5
pull1D
Entries 43
Mean 0.02643
Std Dev 1.036
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

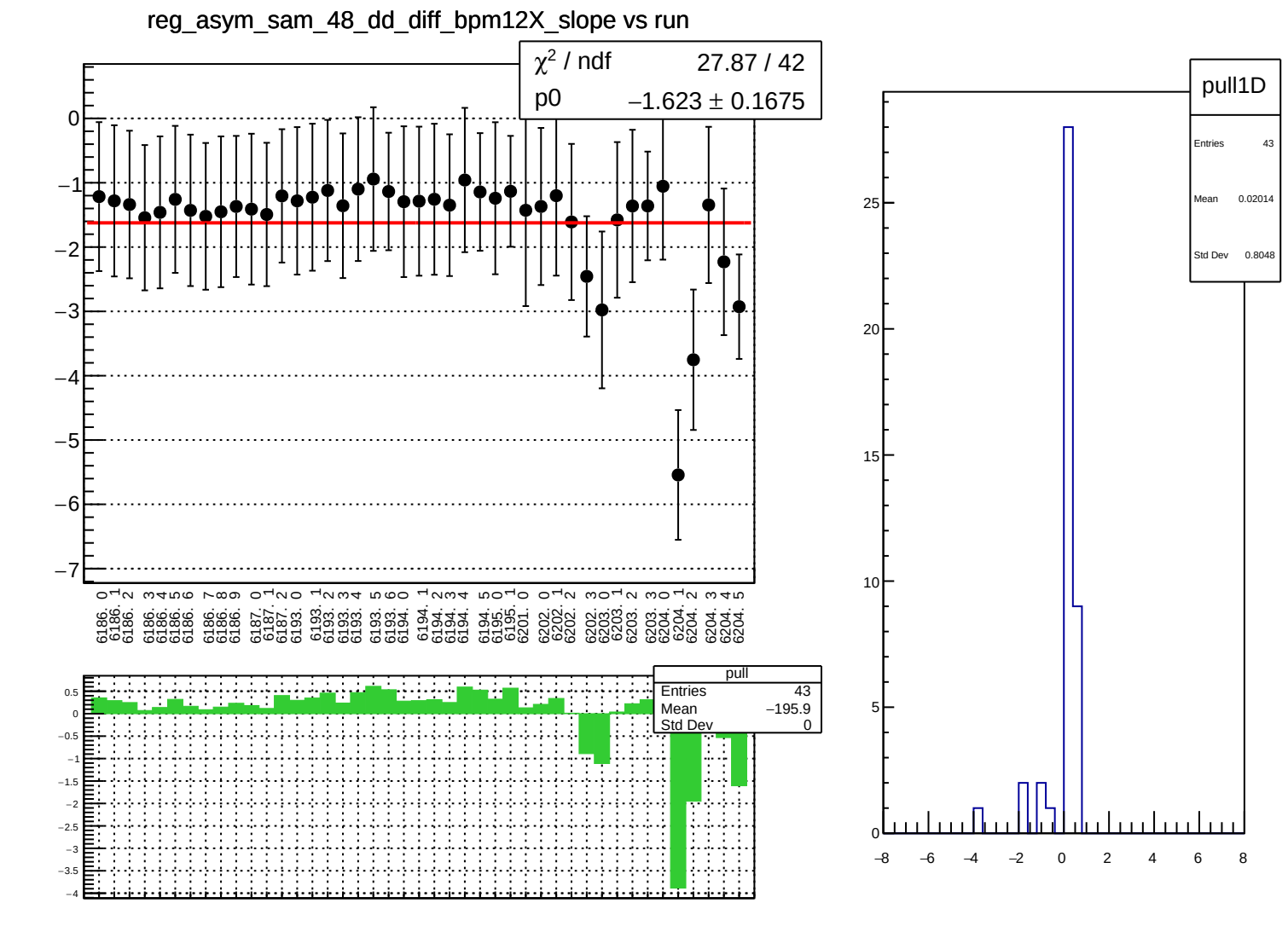

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 65.71 / 42
p0 −31.39 ± 1.845
pull
Entries 43
Mean −66.98
Std Dev 0
pull1D
Entries 43
Mean 0.08236
Std Dev 1.233

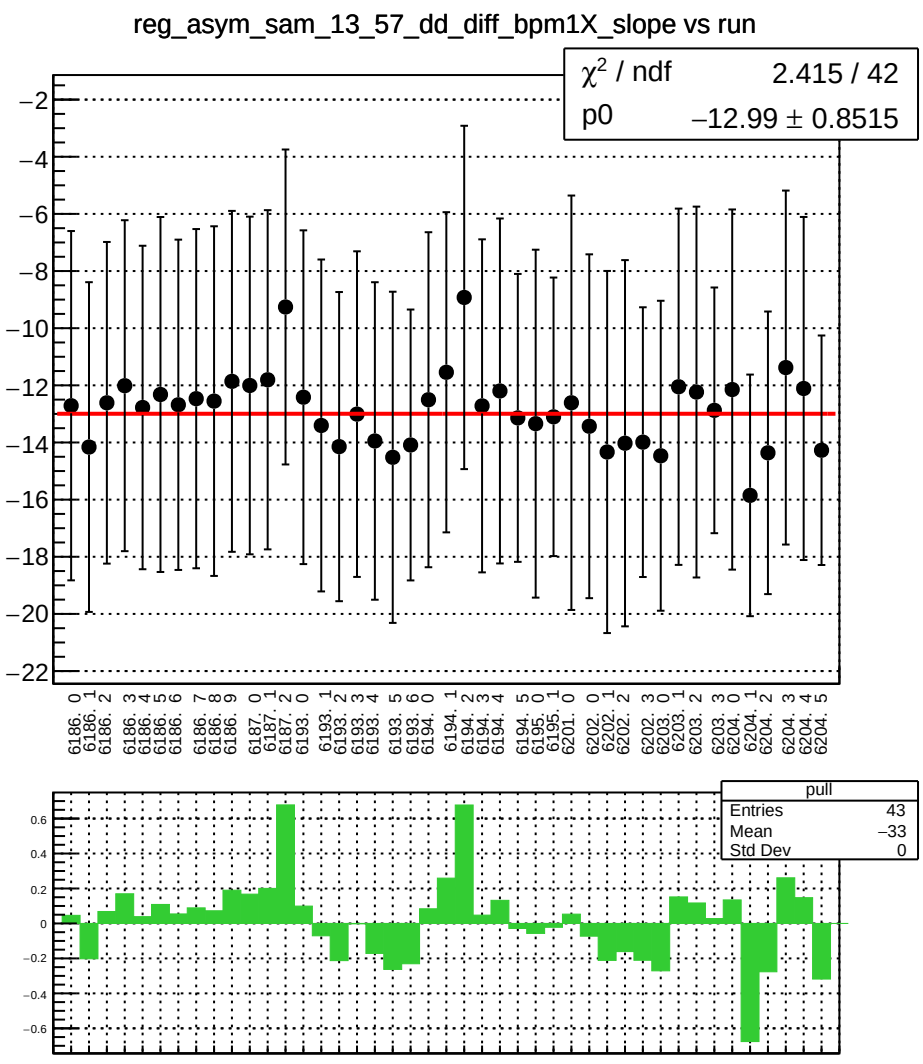

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.31 / 42
p0 27.13 ± 1.728
pull
Entries 43
Mean −406.2
Std Dev 0
pull1D
Entries 43
Mean −0.009899
Std Dev 0.8532

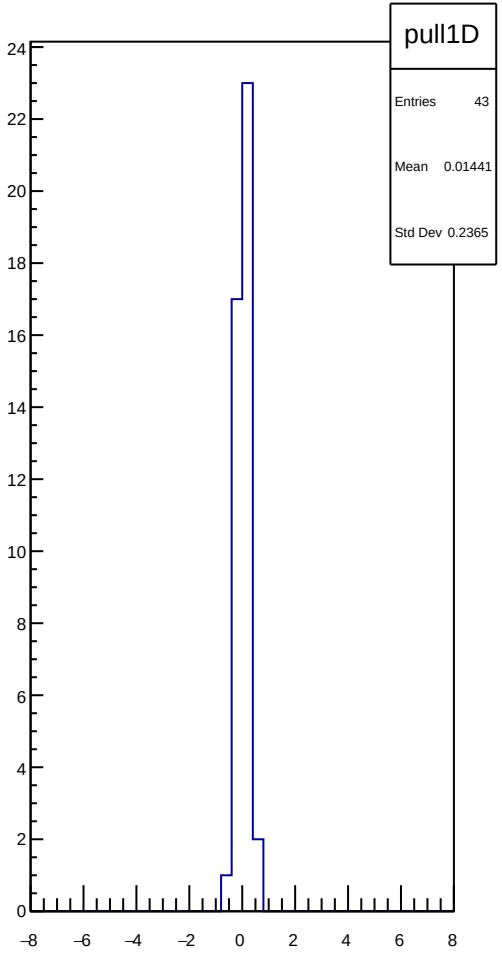

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.23 / 42
p0 −52.76 ± 2.014
0
−20
−40
−60
−80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −60.47
Std Dev 0
5
4
3
2
1
0
−1
pull1D
Entries 43
Mean −0.0792
Std Dev 1.141
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

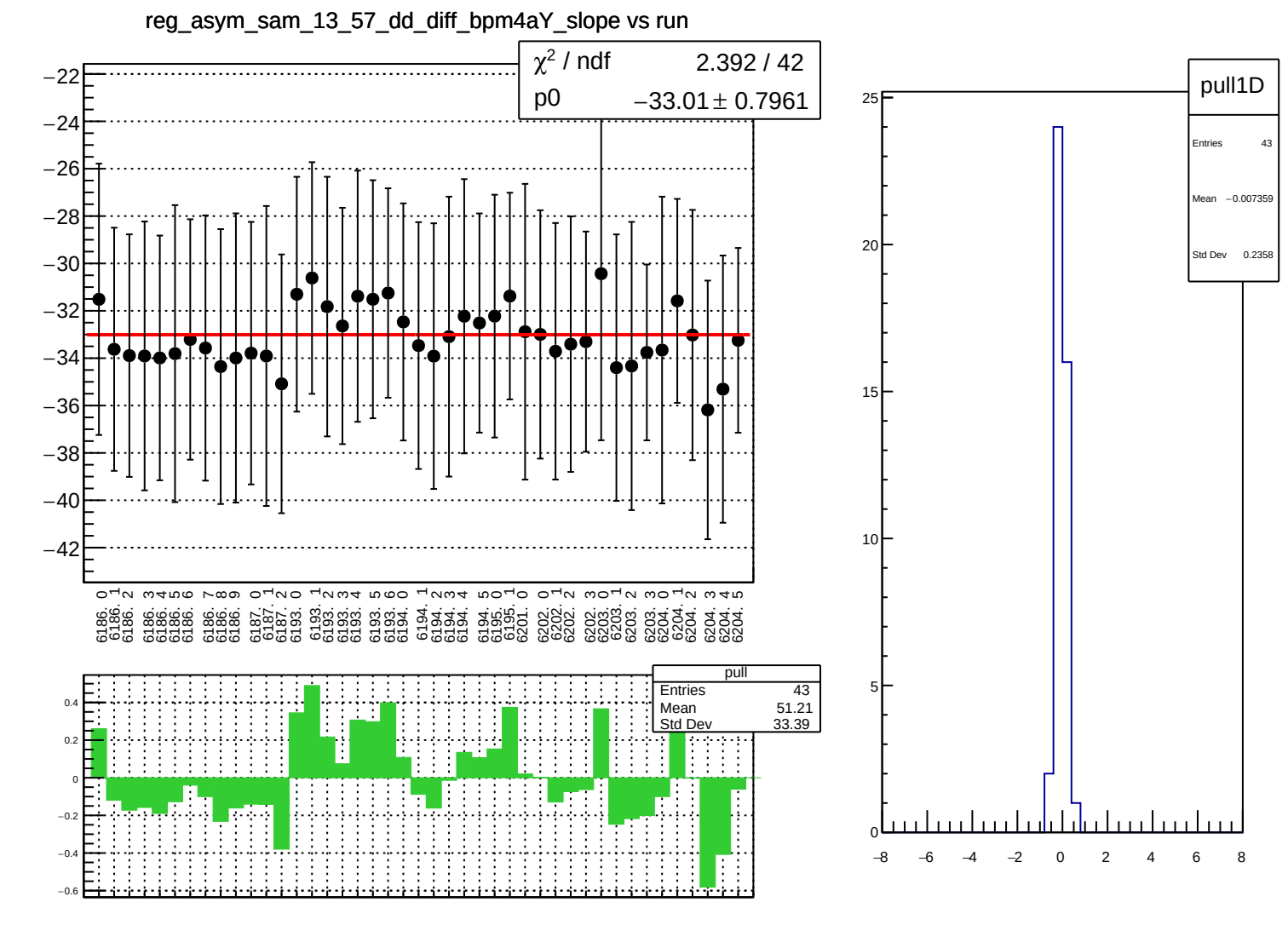

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.46 / 42
p0 98.2 ± 1.944
130
120
110
100
90
80
70
60
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −160.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5

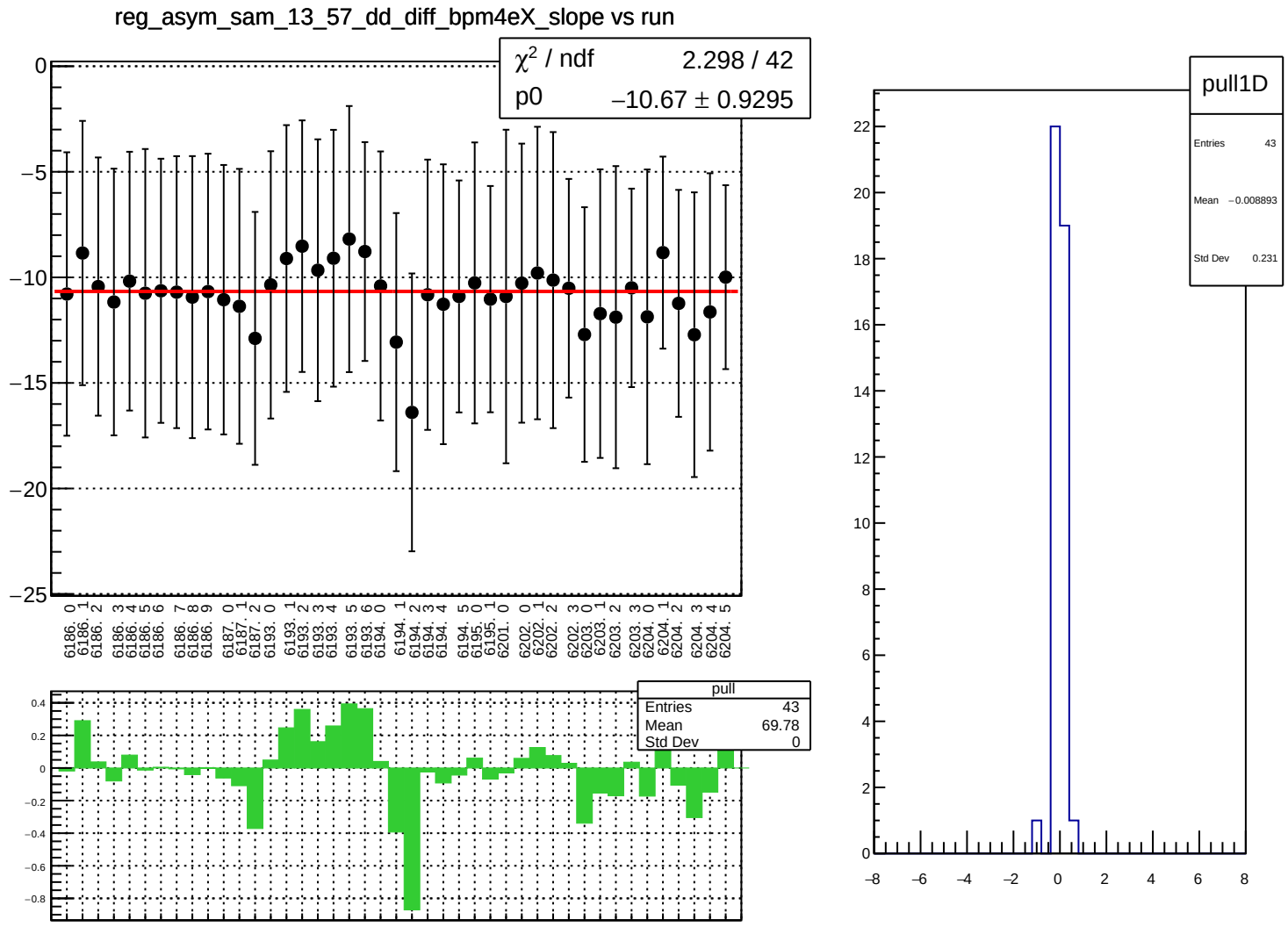

pull1D
Entries 43
Mean 0.01816
Std Dev 0.8134
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

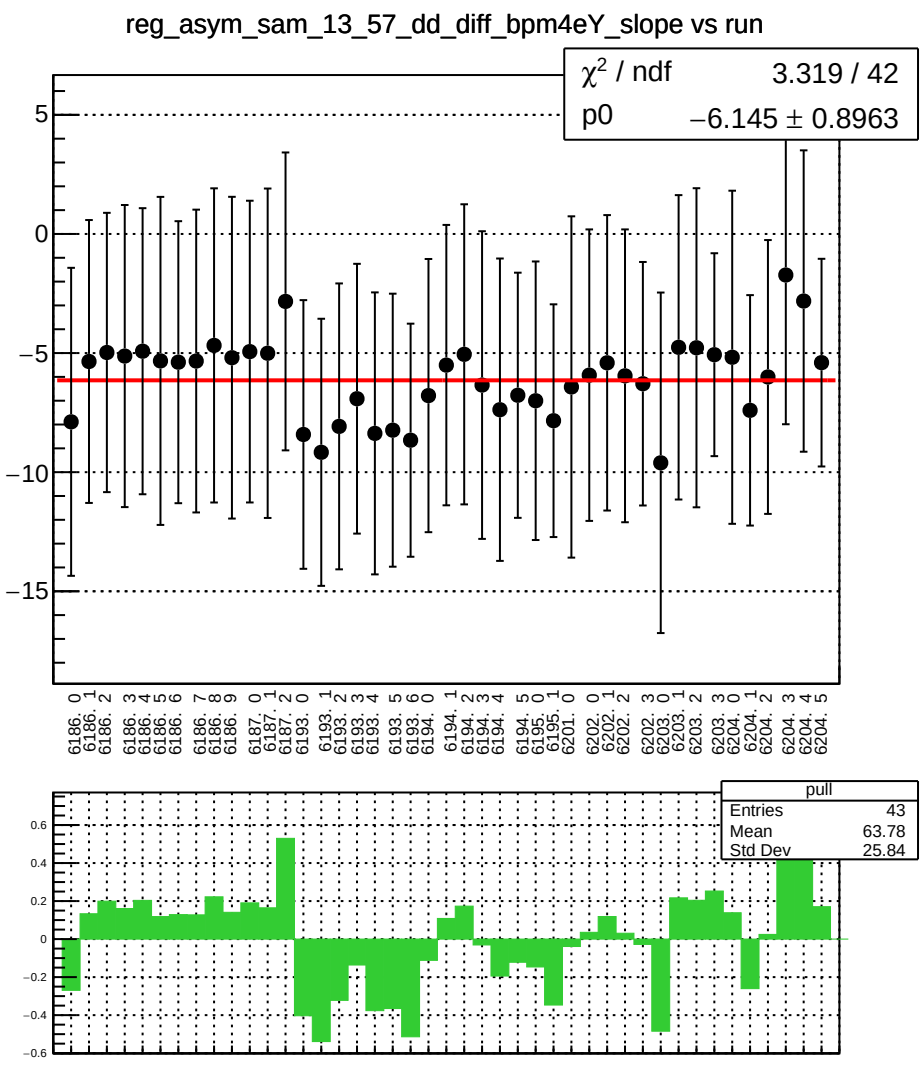

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 27.87 / 42
p0 −1.623 ± 0.1675
pull
Entries 43
Mean −195.9
Std Dev 0
pull1D
Entries 43
Mean 0.02014
Std Dev 0.8048

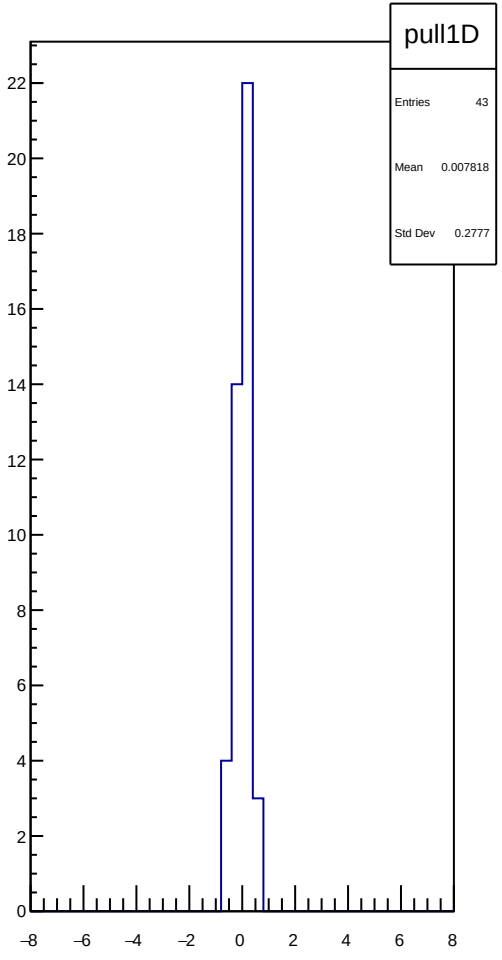

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 2.415 / 42
p0 −12.99 ± 0.8515
pull
Entries 43
Mean −33
Std Dev 0

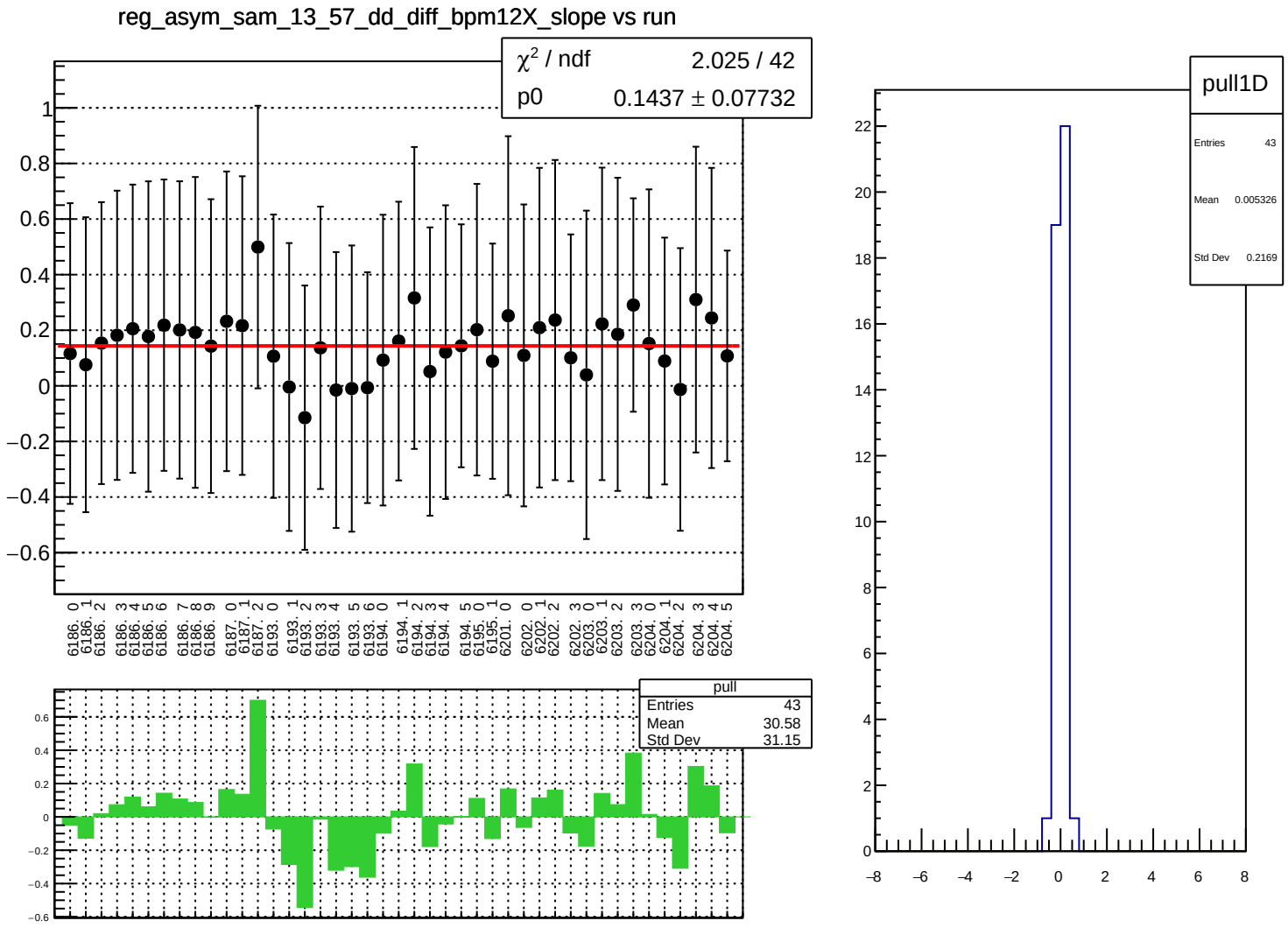

pull1D
Entries 43
Mean 0.01441
Std Dev 0.2365

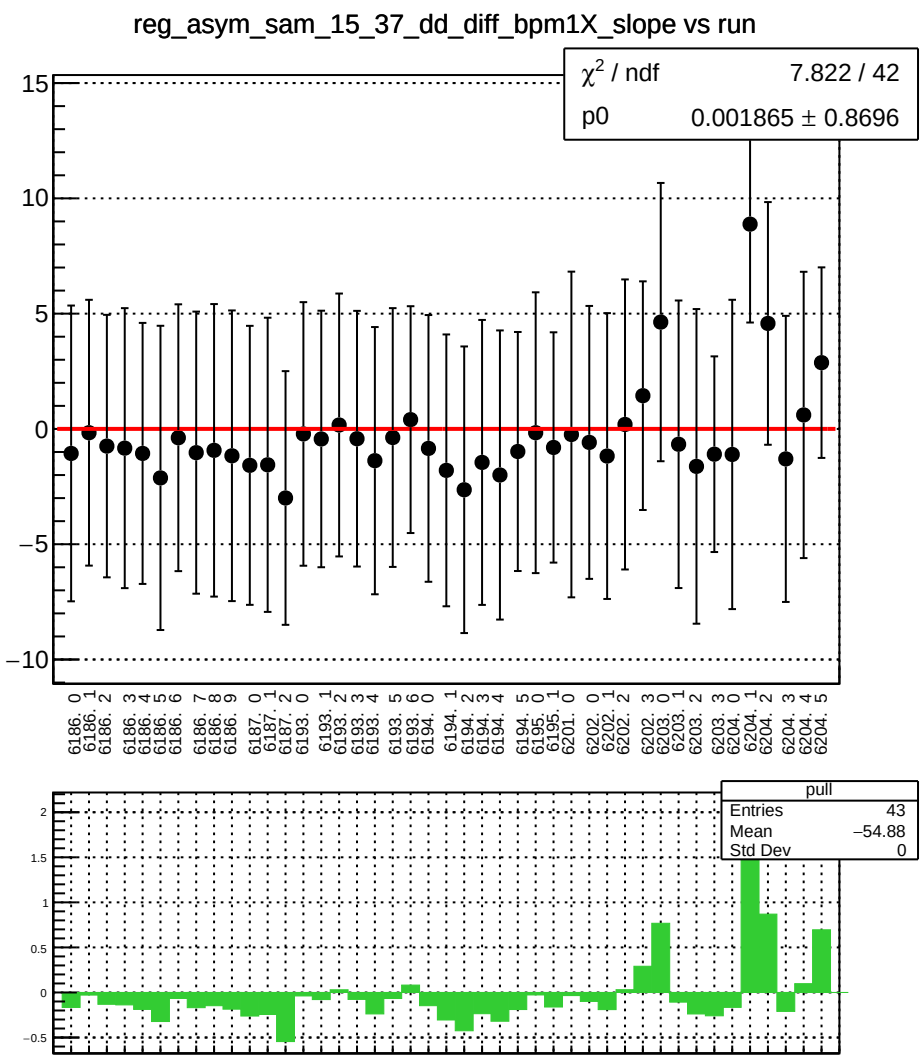

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.392 / 42
p0 −33.01 ± 0.7961
pull
Entries 43
Mean 51.21
Std Dev 33.39
pull1D
Entries 43
Mean −0.007359
Std Dev 0.2358

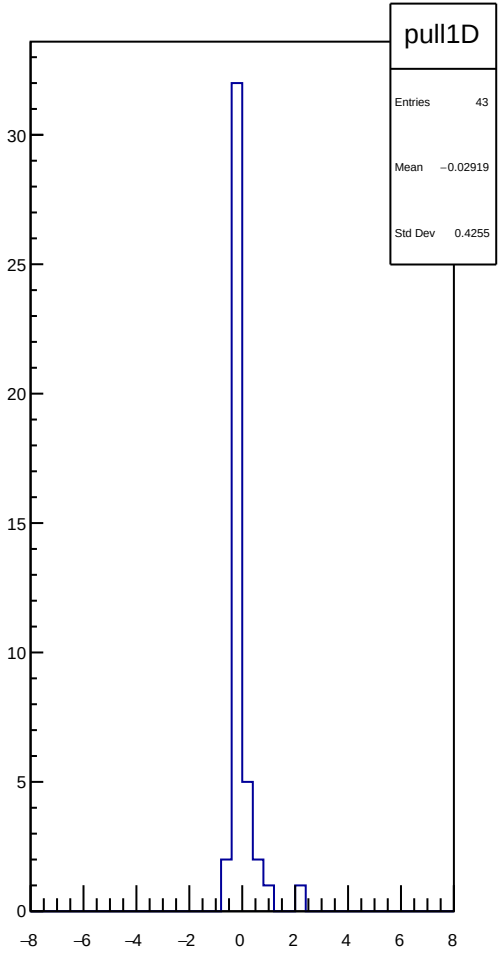

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.298 / 42
p0 −10.67 ± 0.9295
pull
Entries 43
Mean 69.78
Std Dev 0
pull1D
Entries 43
Mean −0.008893
Std Dev 0.231

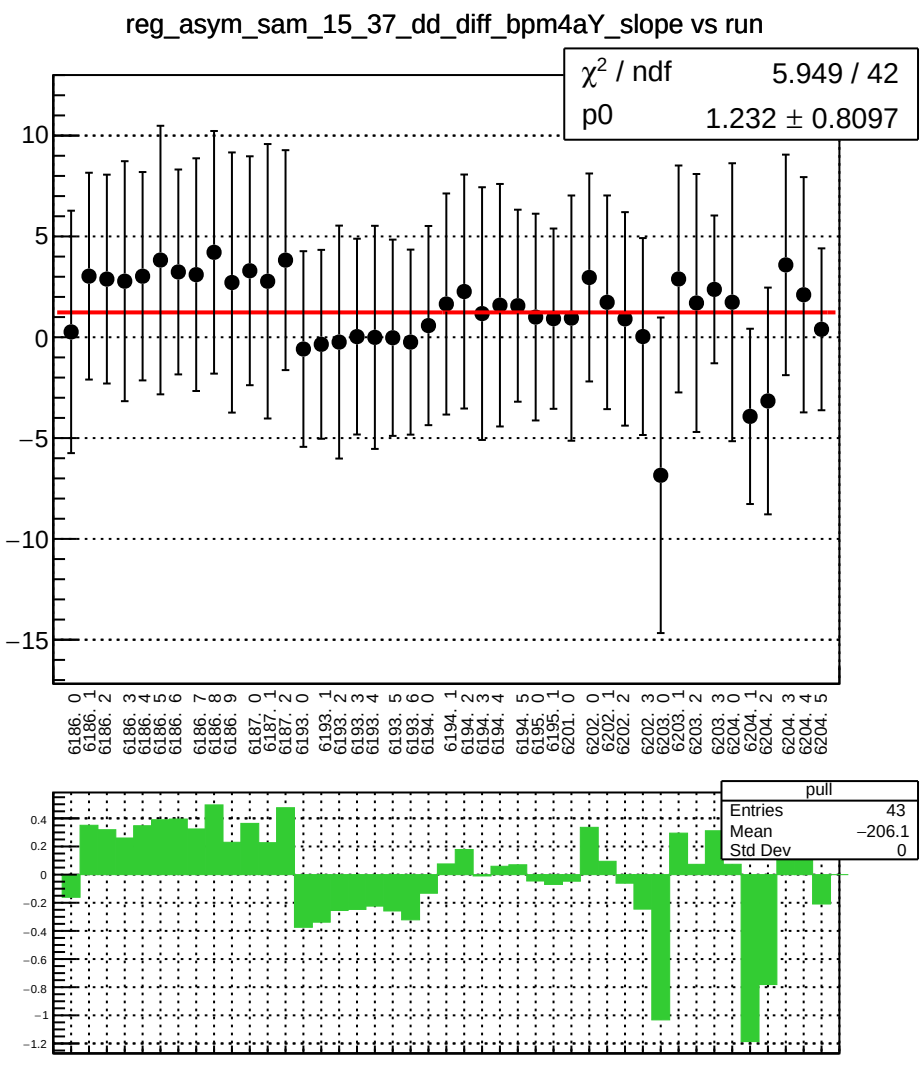

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.319 / 42
p0 −6.145 ± 0.8963
pull
Entries 43
Mean 63.78
Std Dev 25.84

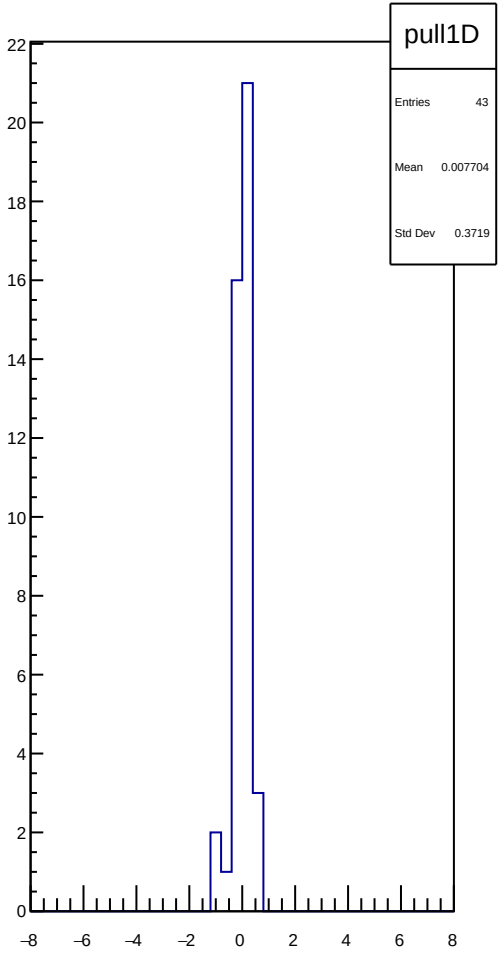

pull1D
Entries 43
Mean 0.007818
Std Dev 0.2777

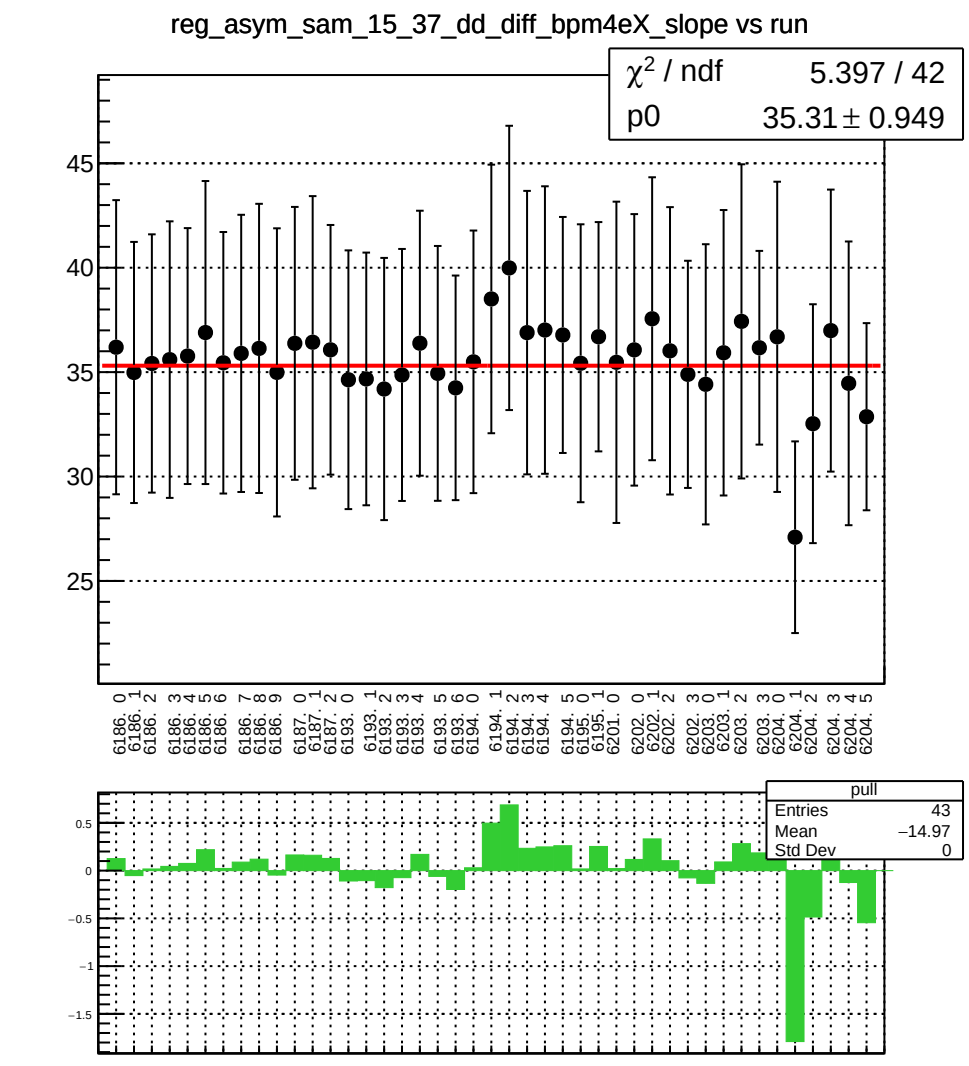

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 2.025 / 42
p0 0.1437 ± 0.07732
pull
Entries 43
Mean 30.58
Std Dev 31.15
pull1D
Entries 43
Mean 0.005326
Std Dev 0.2169

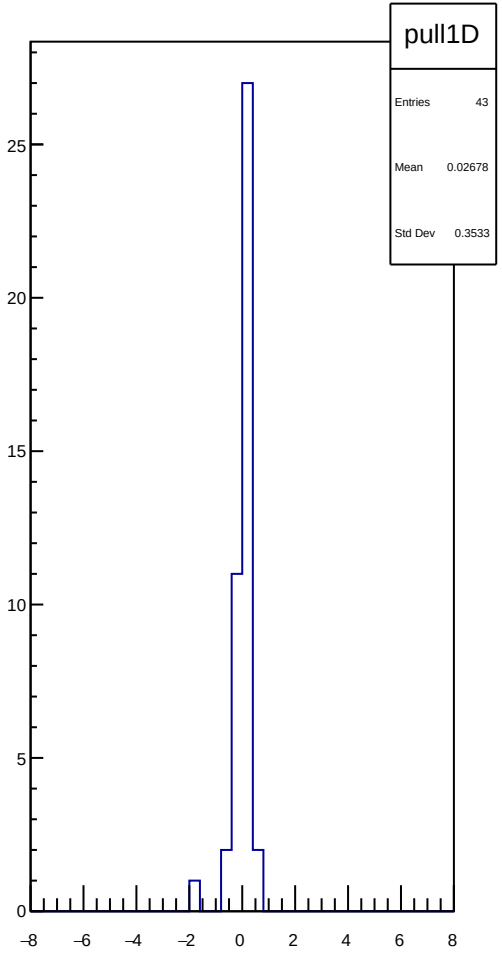

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 7.822 / 42
p0 0.001865 ± 0.8696
pull
Entries 43
Mean −54.88
Std Dev 0

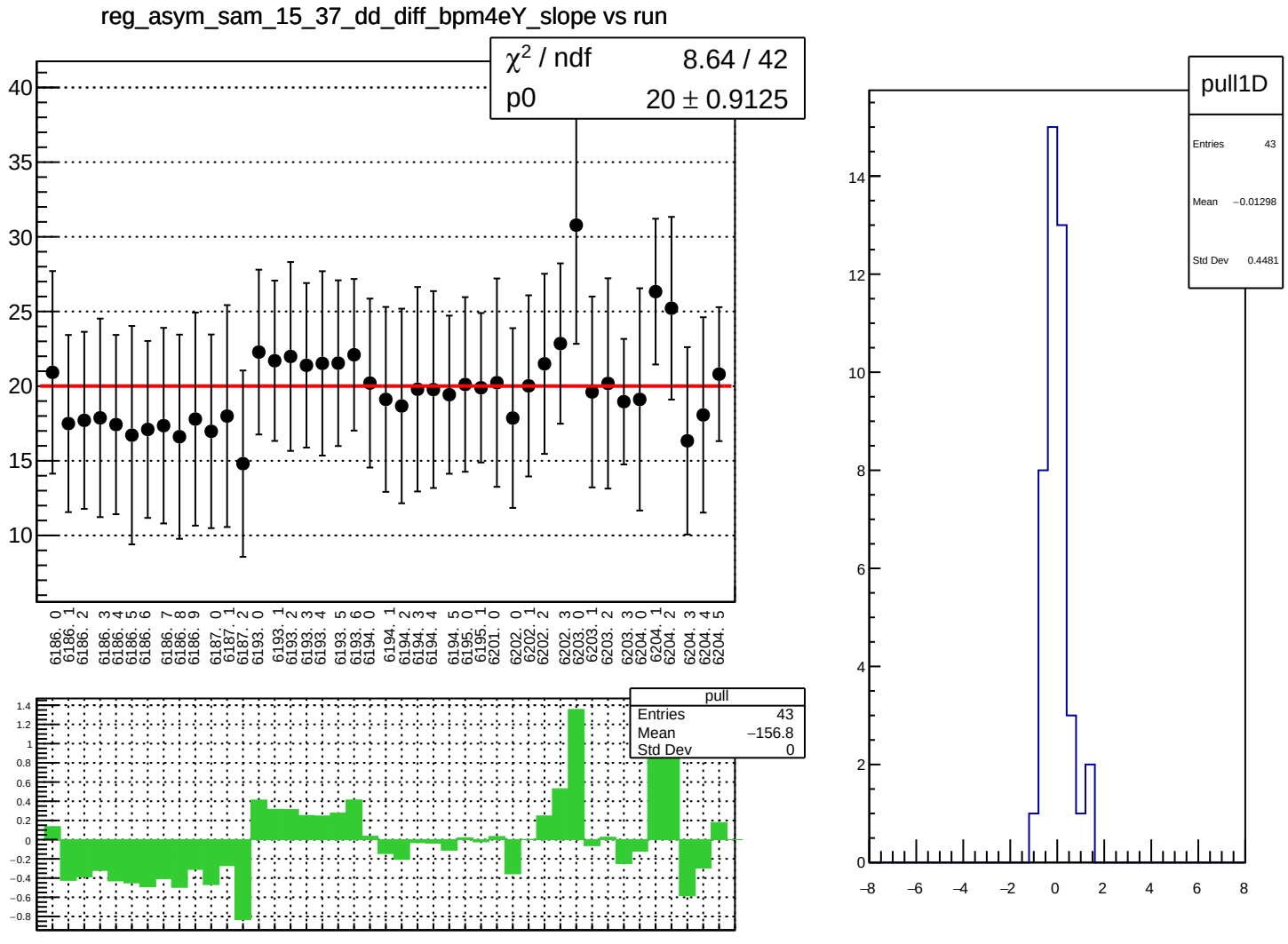

pull1D
Entries 43
Mean −0.02919
Std Dev 0.4255

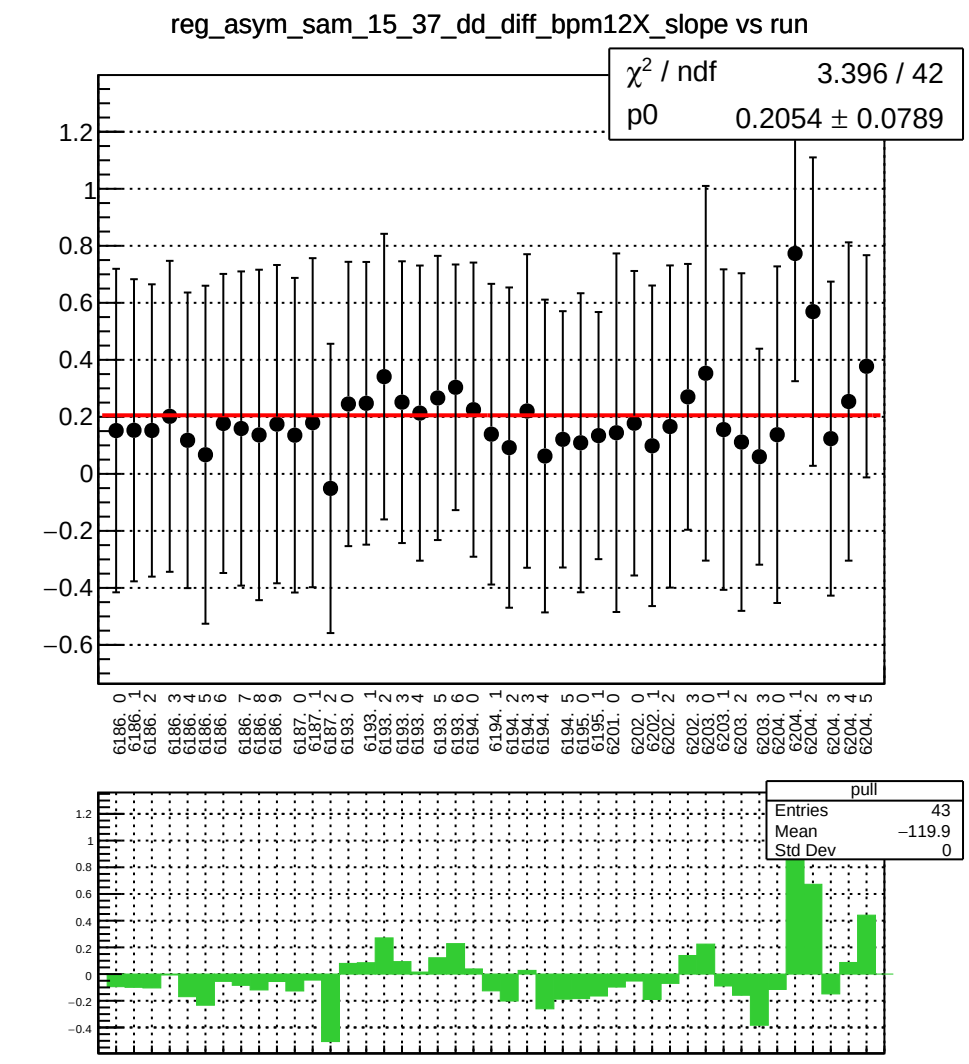

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.949 / 42
p0 1.232 ± 0.8097
pull
Entries 43
Mean −206.1
Std Dev 0

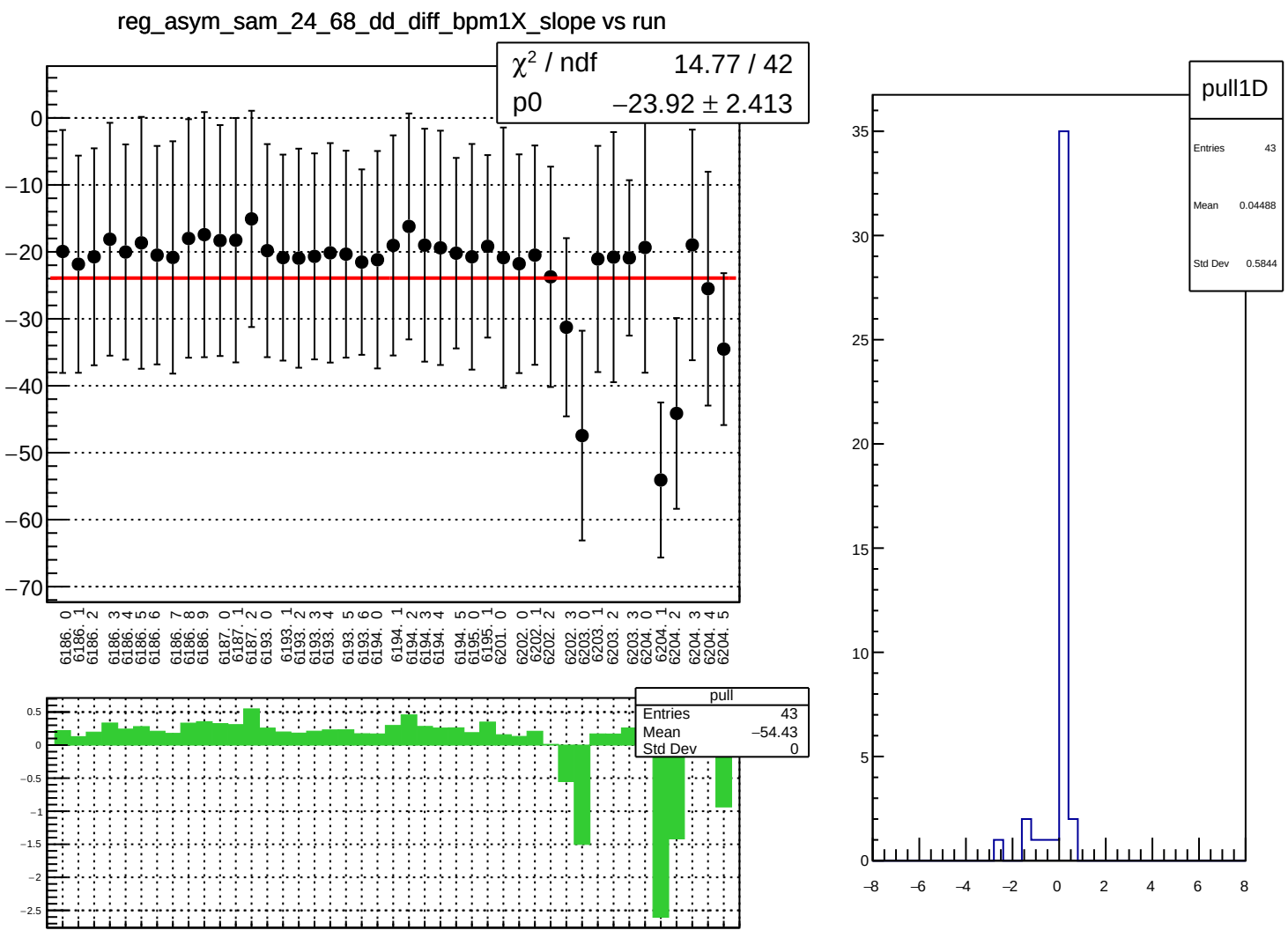

pull1D
Entries 43
Mean 0.007704
Std Dev 0.3719

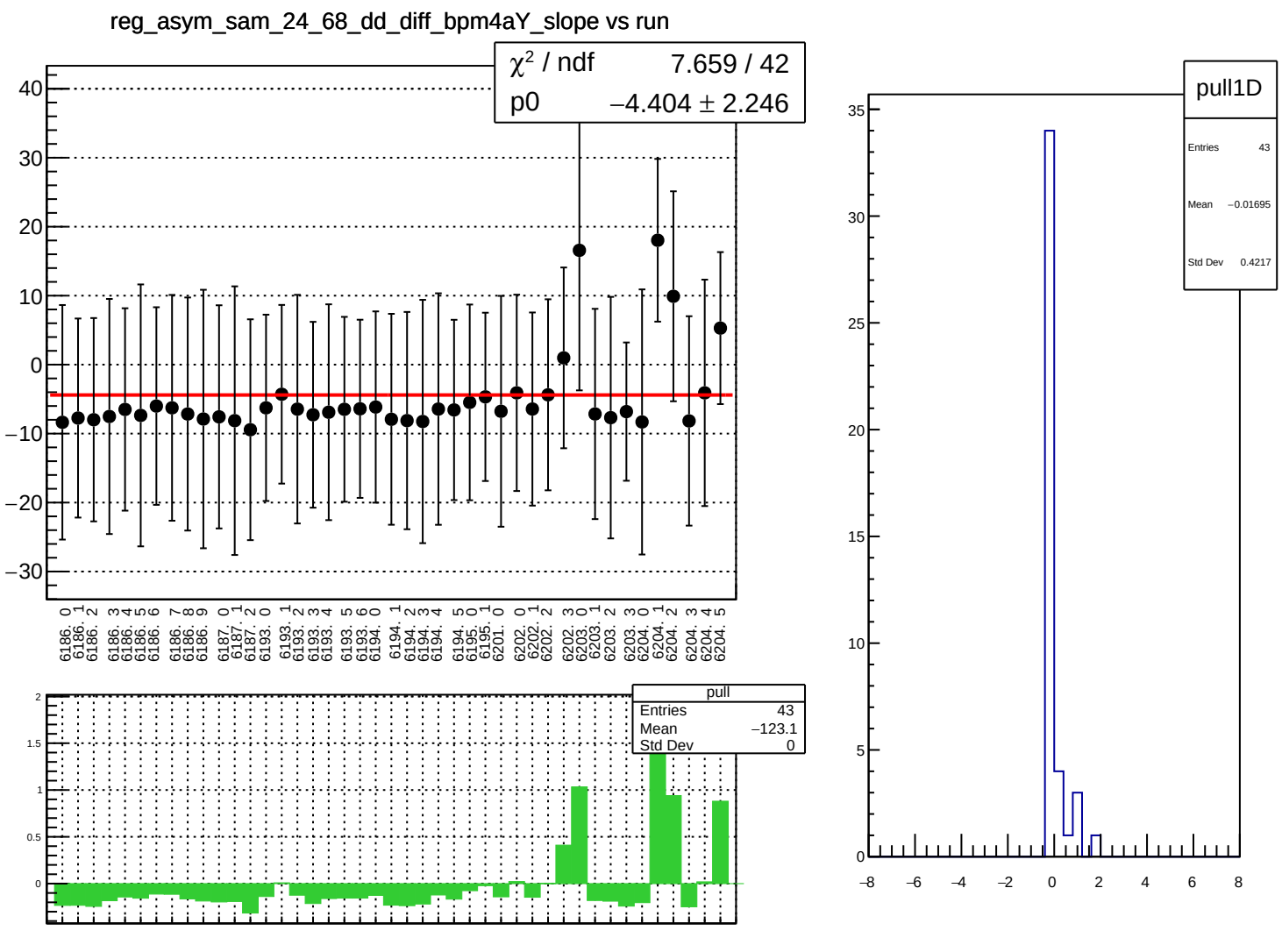

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.397 / 42
p0 35.31 ± 0.949
45
40
35
30
25
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −14.97
Std Dev 0
0.5
0
−0.5
−1
−1.5

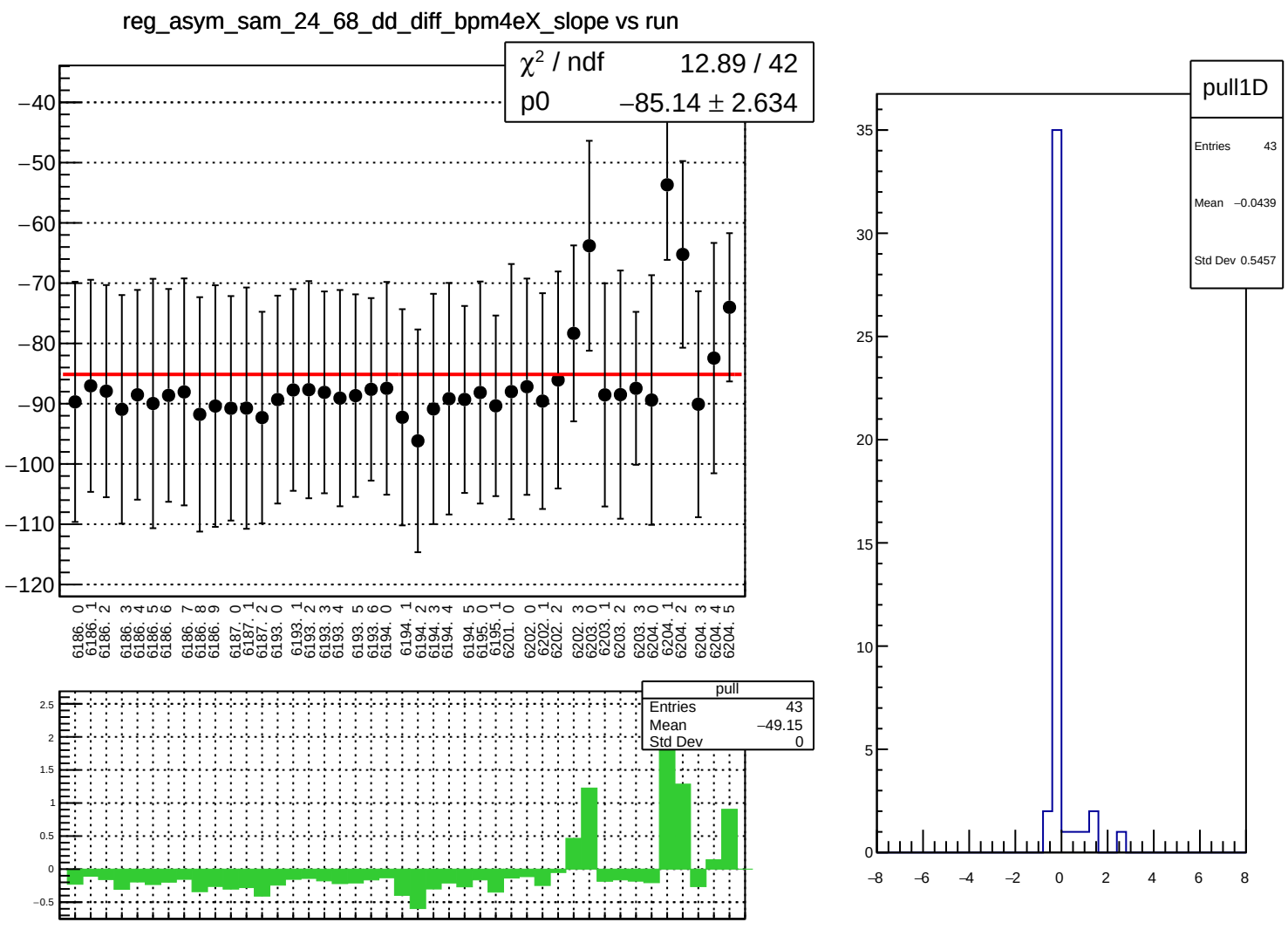

pull1D
Entries 43
Mean 0.02678
Std Dev 0.3533
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

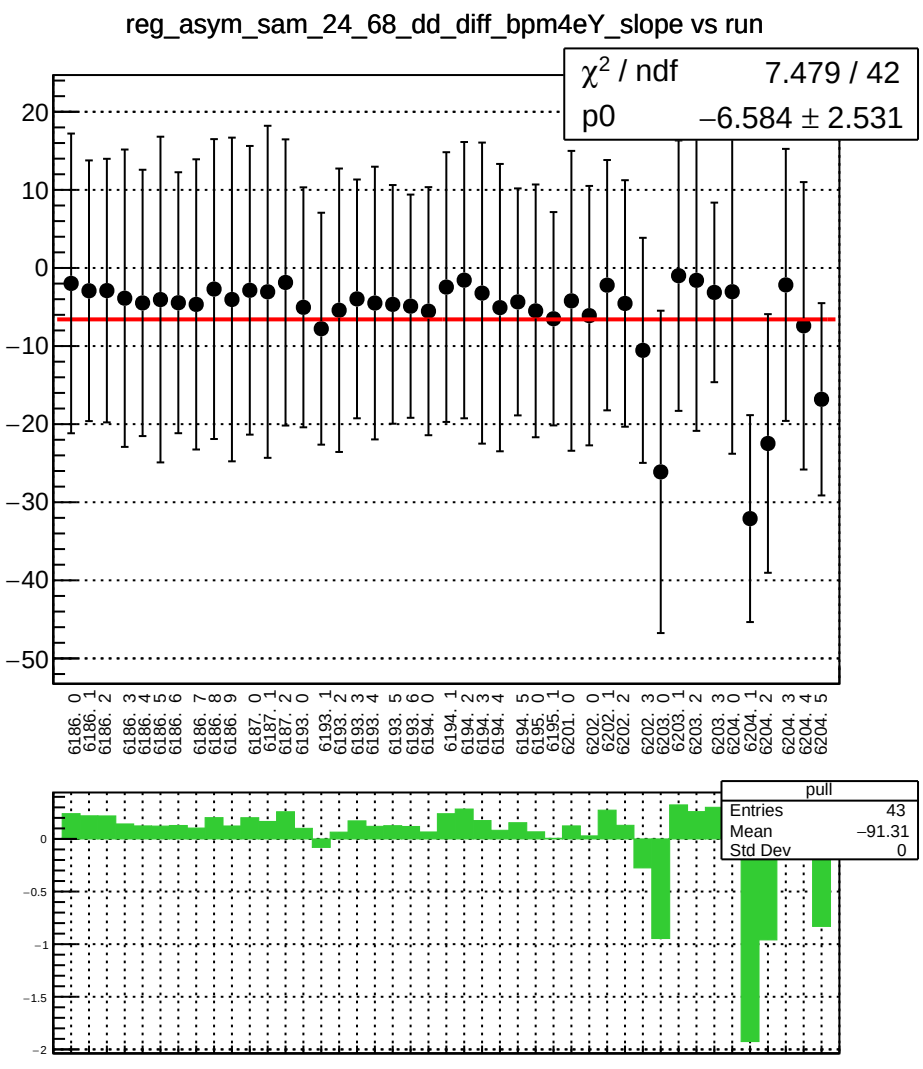

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.64 / 42
p0 20 ± 0.9125
40
35
30
25
20
15
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −156.8
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 43
Mean −0.01298
Std Dev 0.4481
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

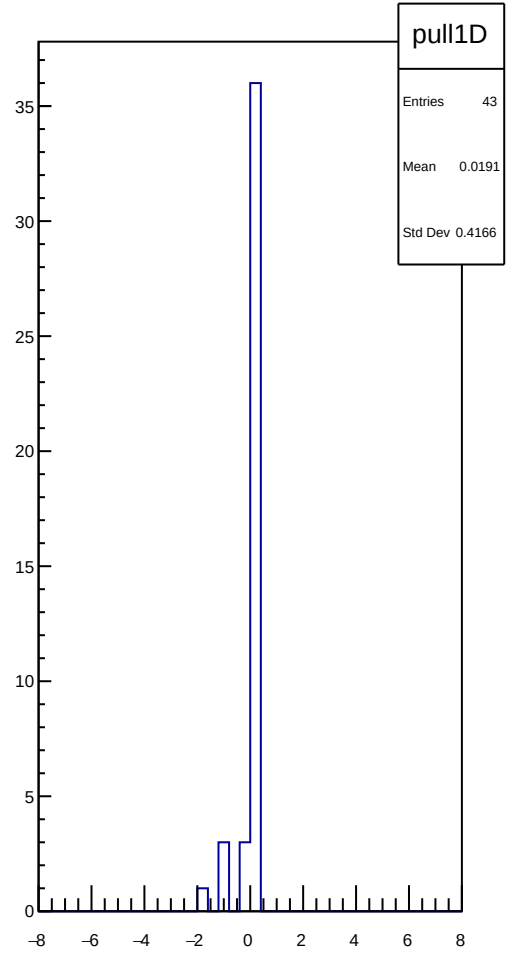

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.396 / 42
p0 0.2054 ± 0.0789
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −119.9
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 43
Mean −0.007731
Std Dev 0.2809
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

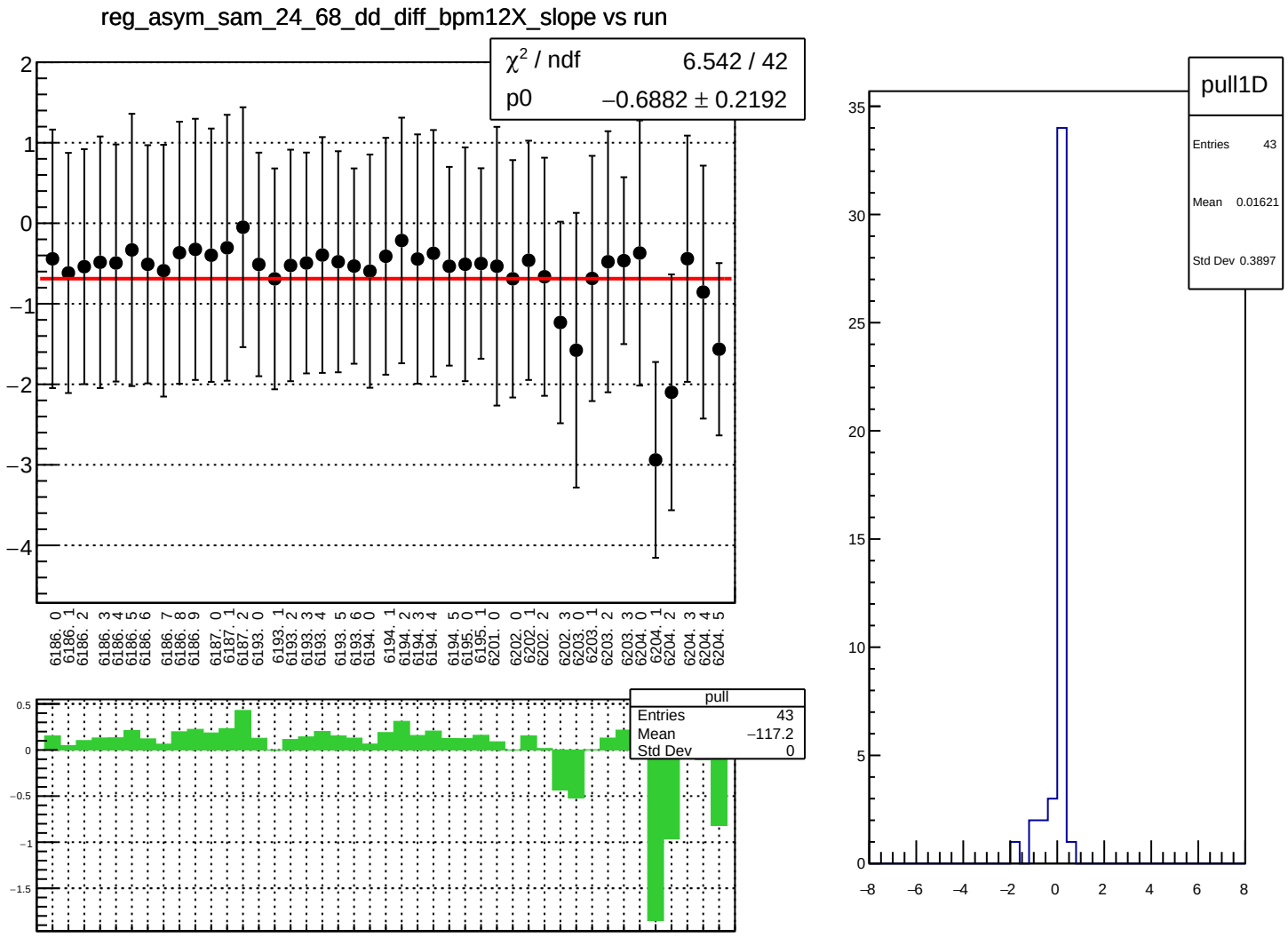

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 14.77 / 42
p0 −23.92 ± 2.413
pull
Entries 43
Mean −54.43
Std Dev 0
pull1D
Entries 43
Mean 0.04488
Std Dev 0.5844

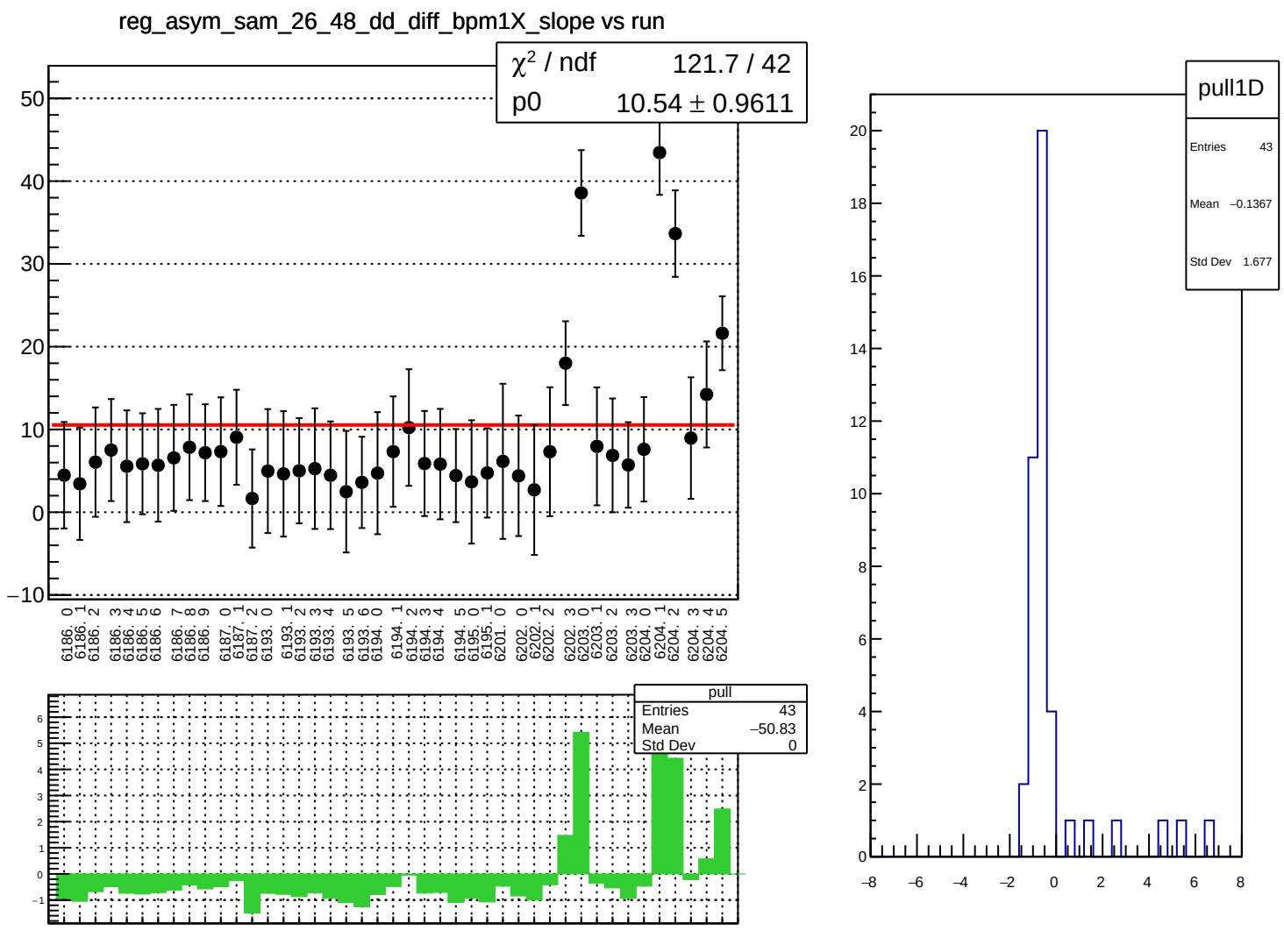

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.659 / 42
p0 −4.404 ± 2.246
40
30
20
10
0
−10
−20
−30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −123.1
Std Dev 0
2
1.5
1
0.5
0
pull1D
Entries 43
Mean −0.01695
Std Dev 0.4217
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

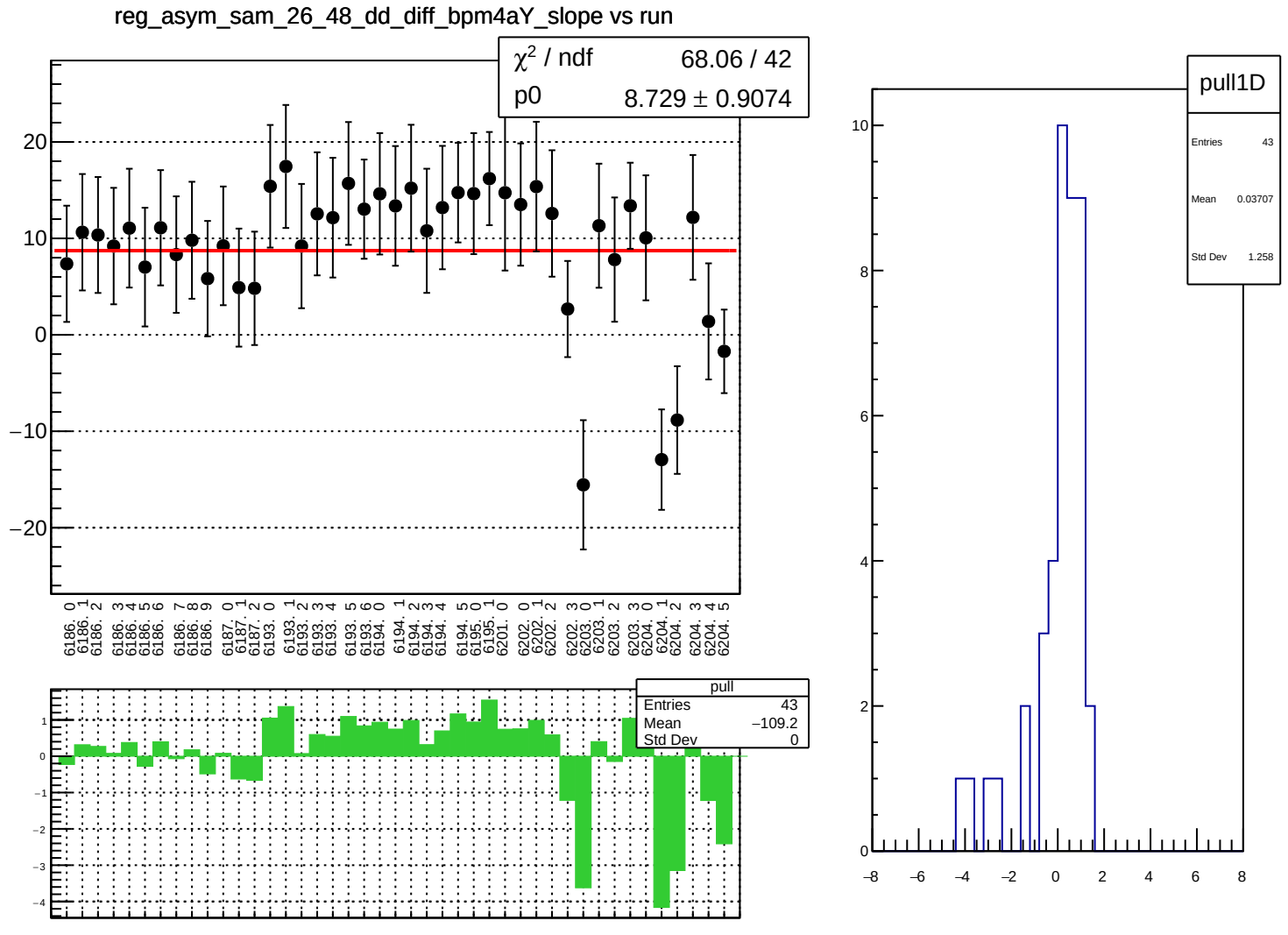

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.89 / 42
p0 −85.14 ± 2.634
−40
−50
−60
−70
−80
−90
−100
−110
−120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −49.15
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.0439
Std Dev 0.5457
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

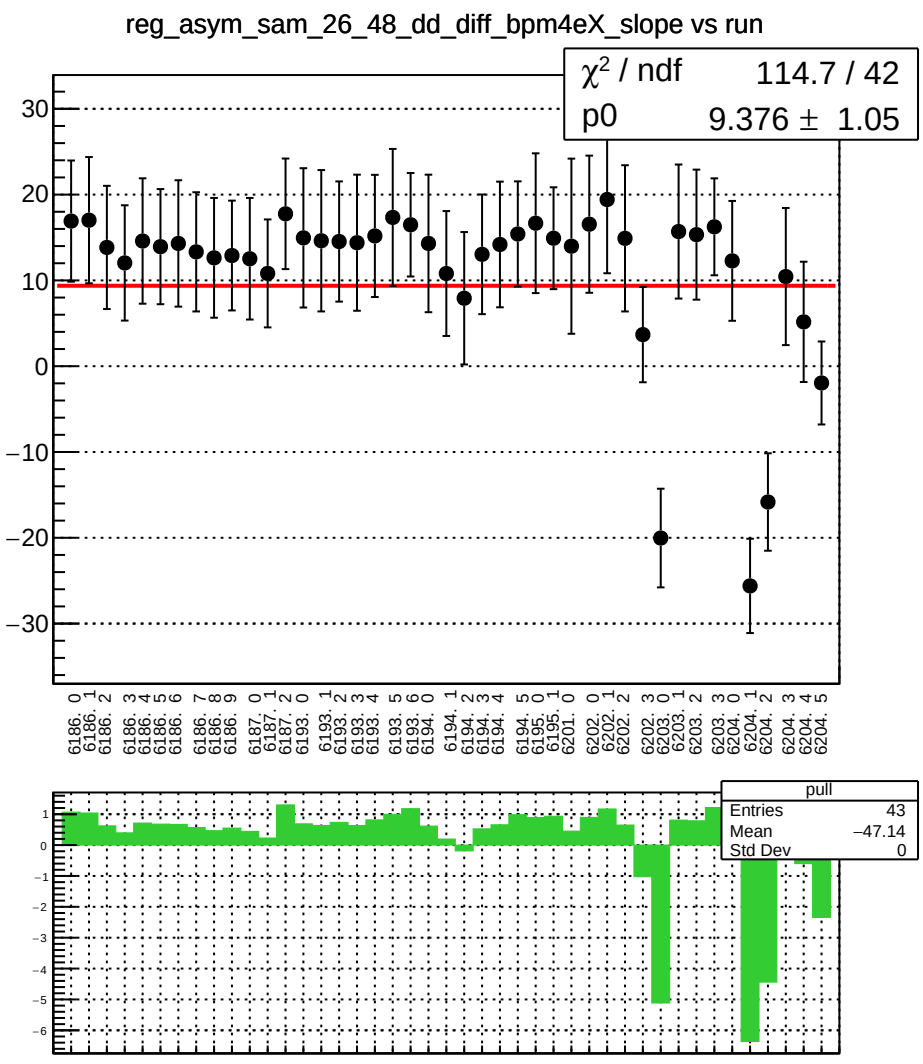

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.479 / 42
p0 −6.584 ± 2.531
pull
Entries 43
Mean −91.31
Std Dev 0

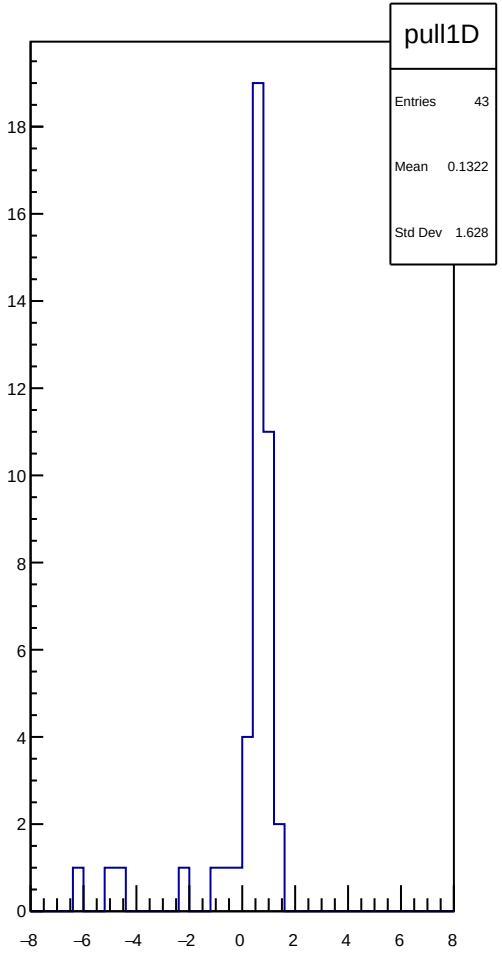

pull1D
Entries 43
Mean 0.0191
Std Dev 0.4166

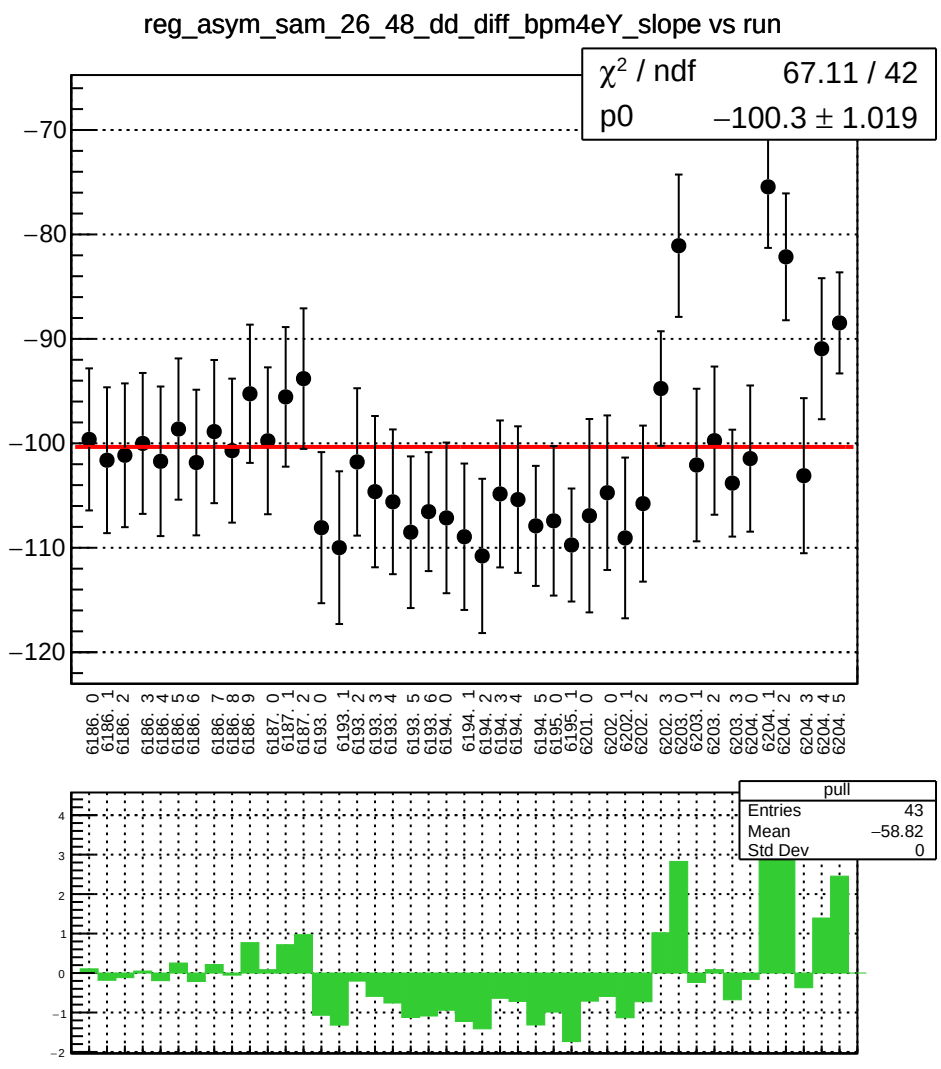

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 6.542 / 42
p0 −0.6882 ± 0.2192
pull
Entries 43
Mean −117.2
Std Dev 0
pull1D
Entries 43
Mean 0.01621
Std Dev 0.3897

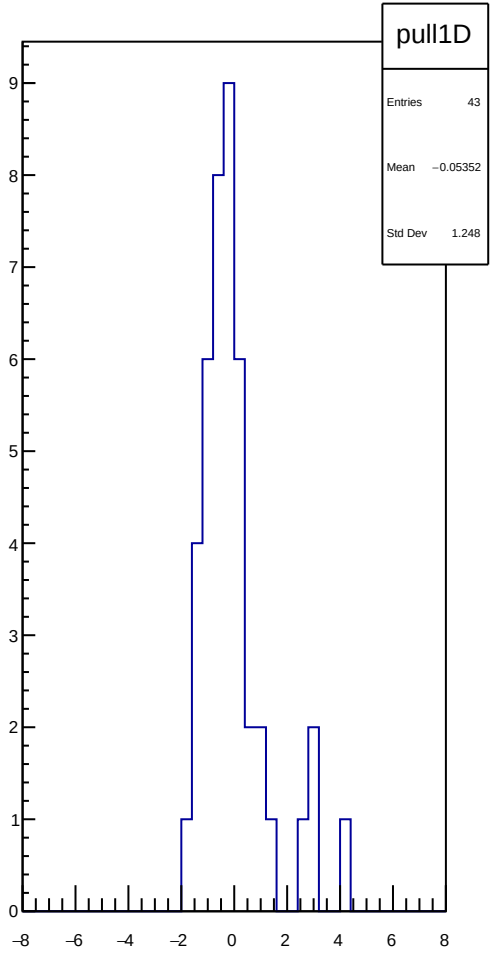

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 121.7 / 42
p0 10.54 ± 0.9611
pull
Entries 43
Mean −50.83
Std Dev 0
pull1D
Entries 43
Mean −0.1367
Std Dev 1.677

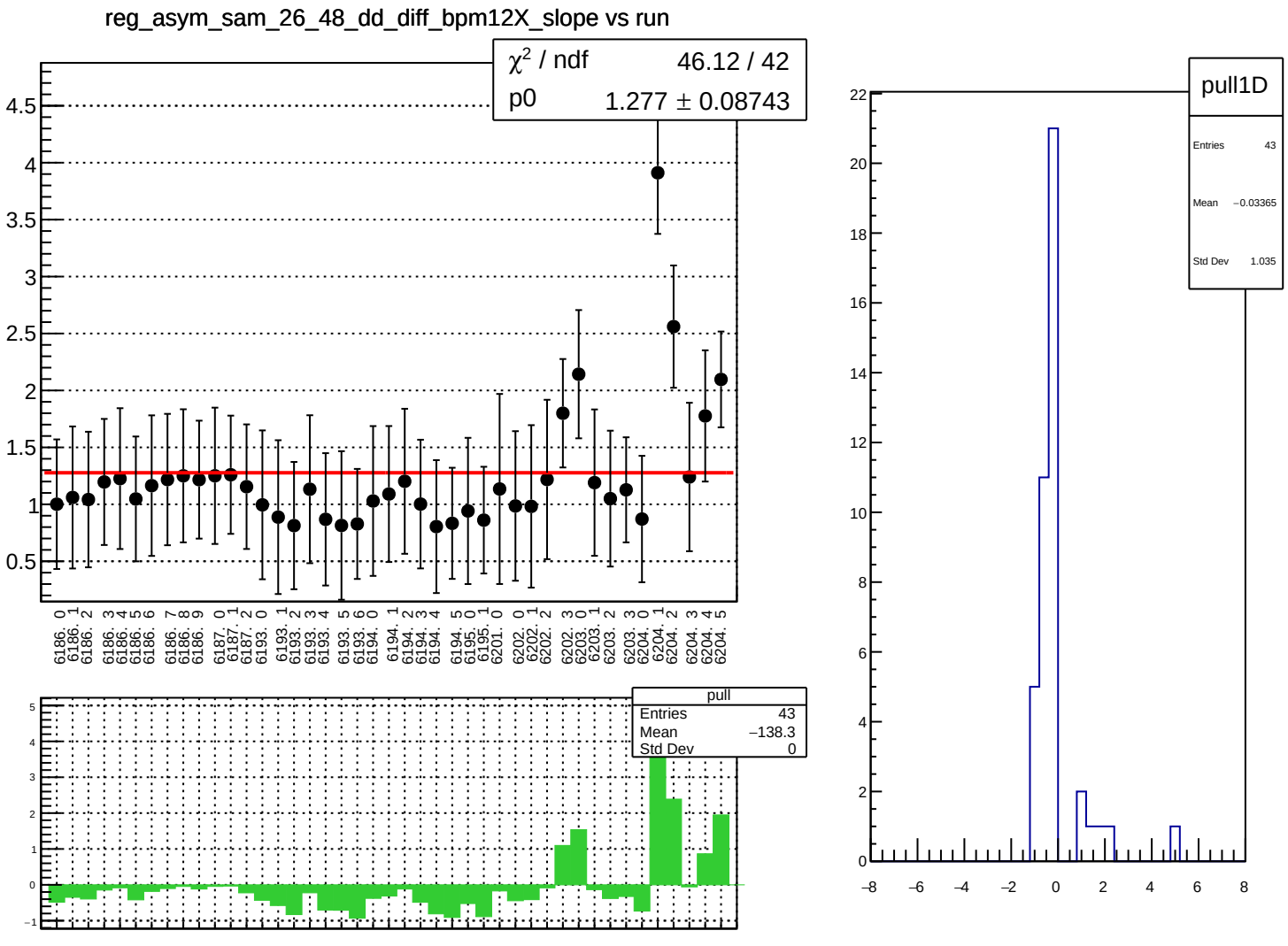

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 68.06 / 42
p0 8.729 ± 0.9074
20
10
0
−10
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −109.2
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean 0.03707
Std Dev 1.258
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

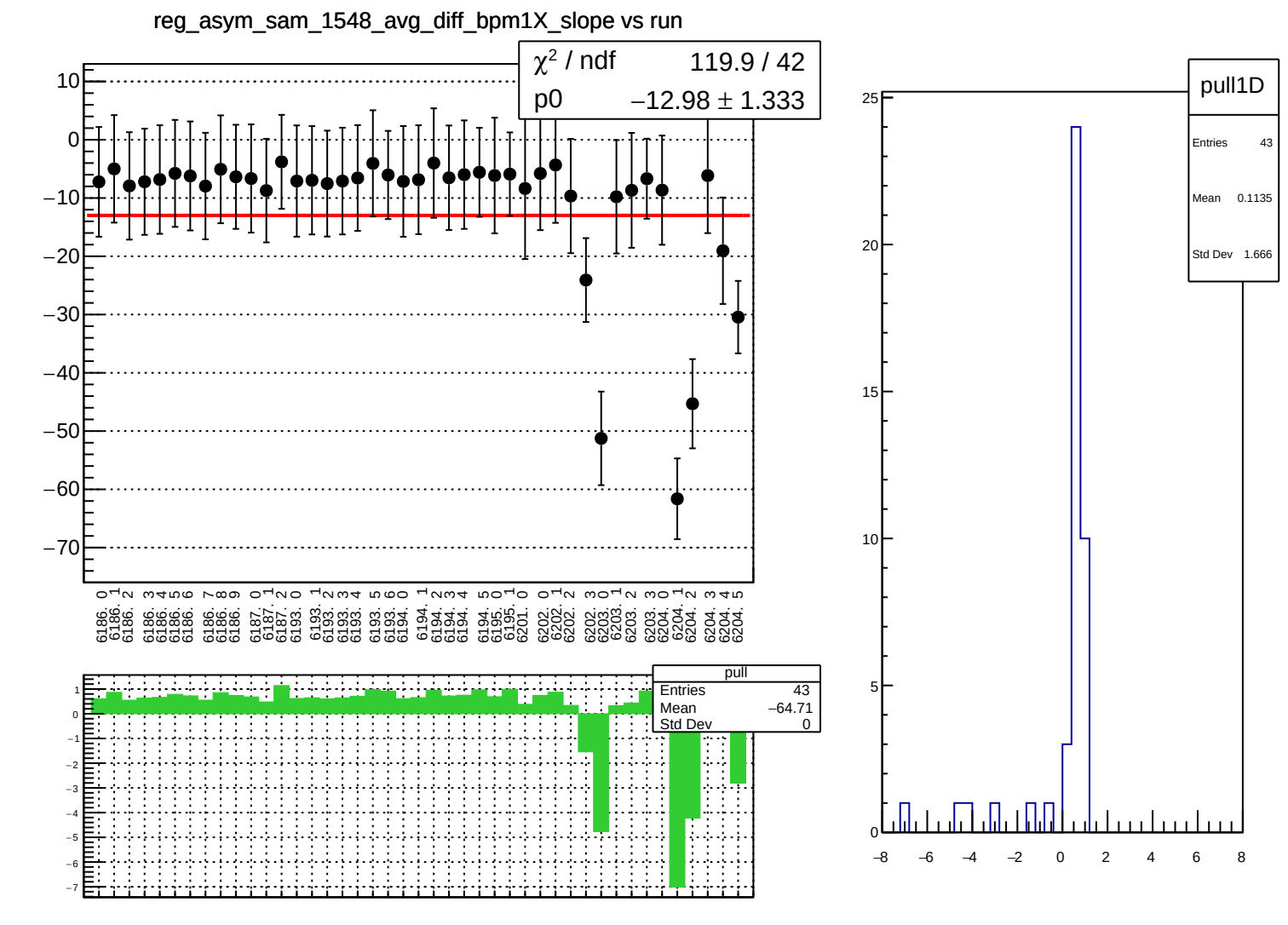

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 114.7 / 42
p0 9.376 ± 1.05
pull
Entries 43
Mean −47.14
Std Dev 0

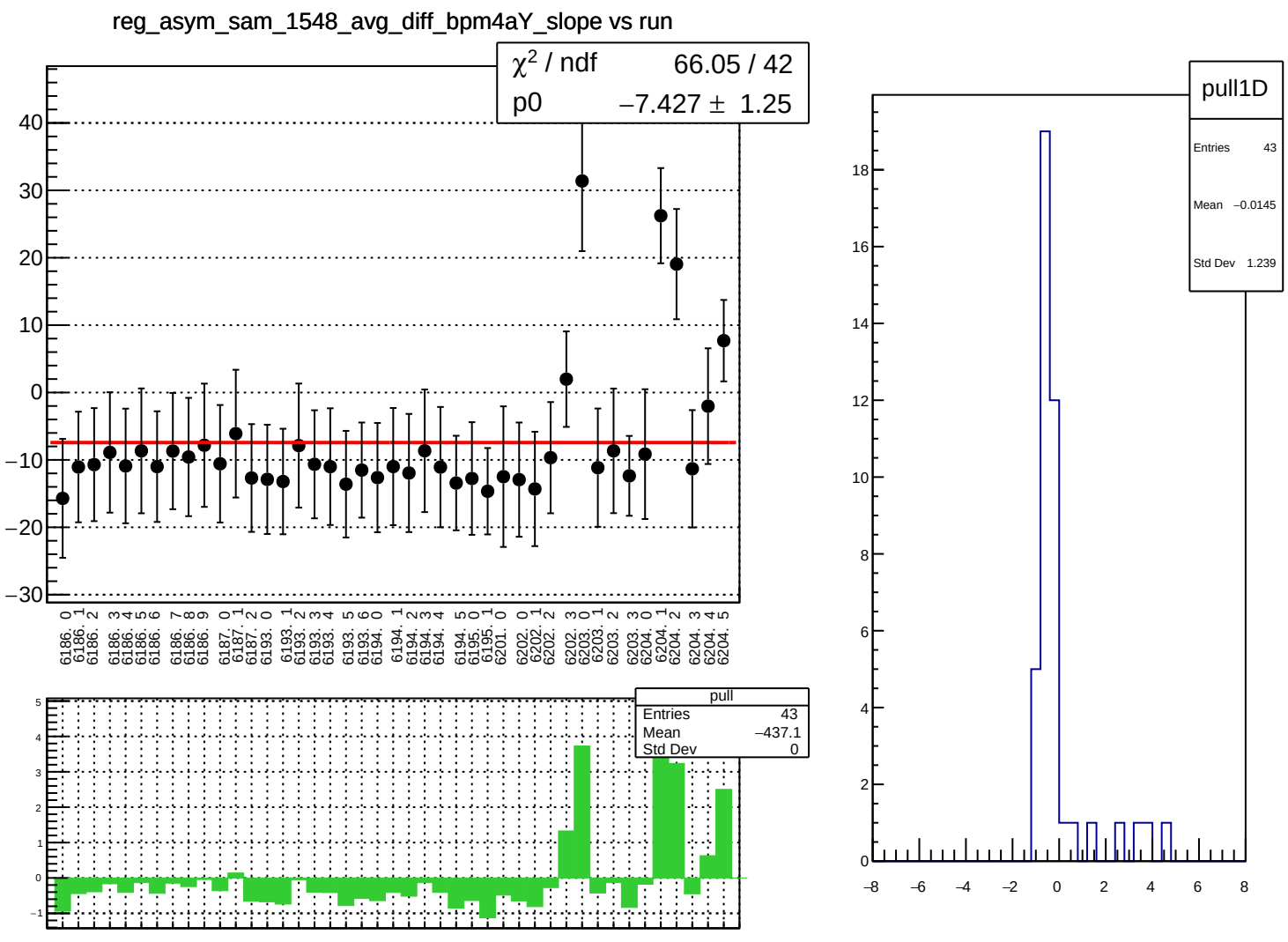

pull1D
Entries 43
Mean 0.1322
Std Dev 1.628

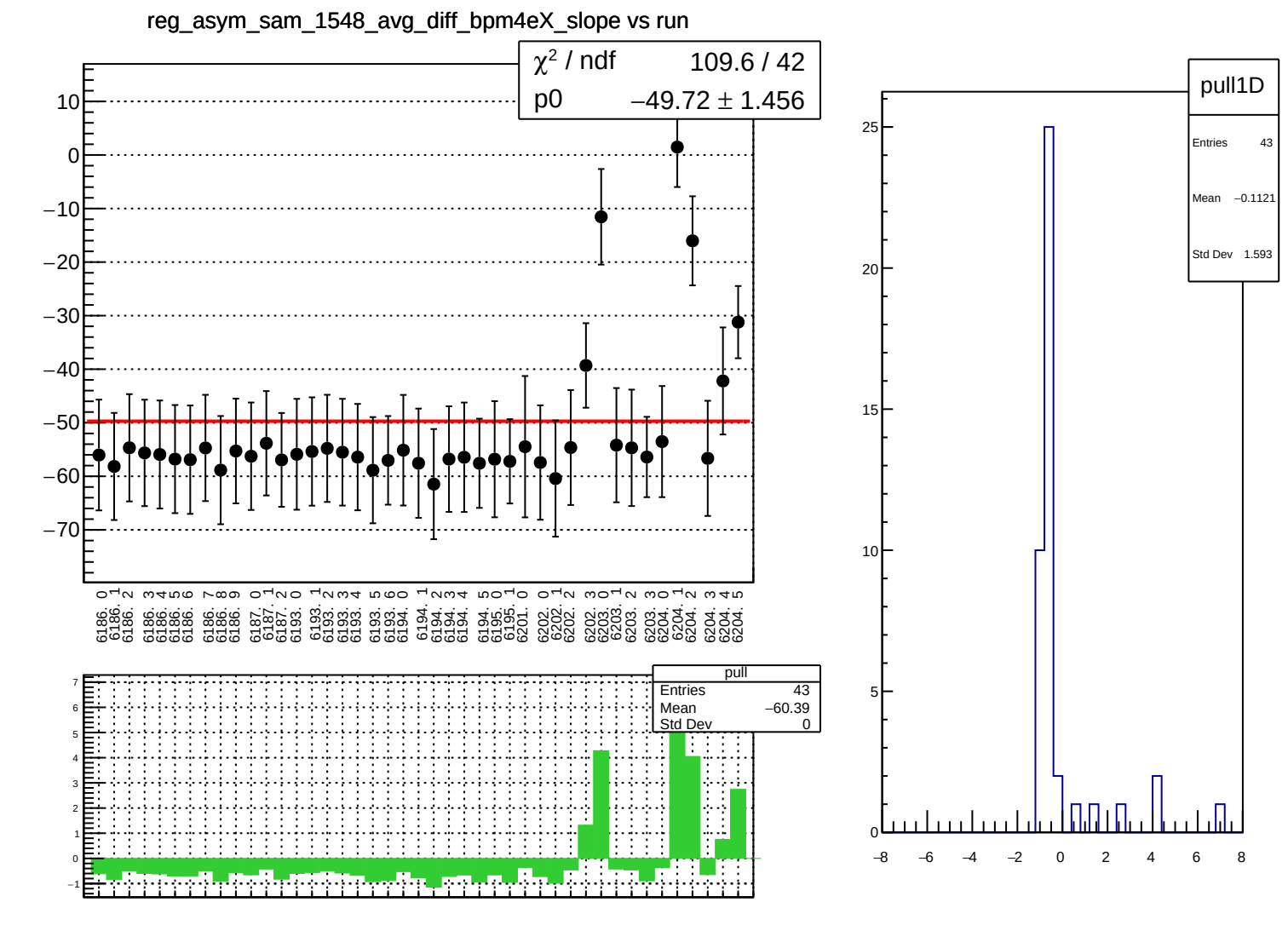

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.11 / 42
p0 −100.3 ± 1.019
−70
−80
−90
−100
−110
−120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −58.82
Std Dev 0
4
3
2
1
0
−1
−2

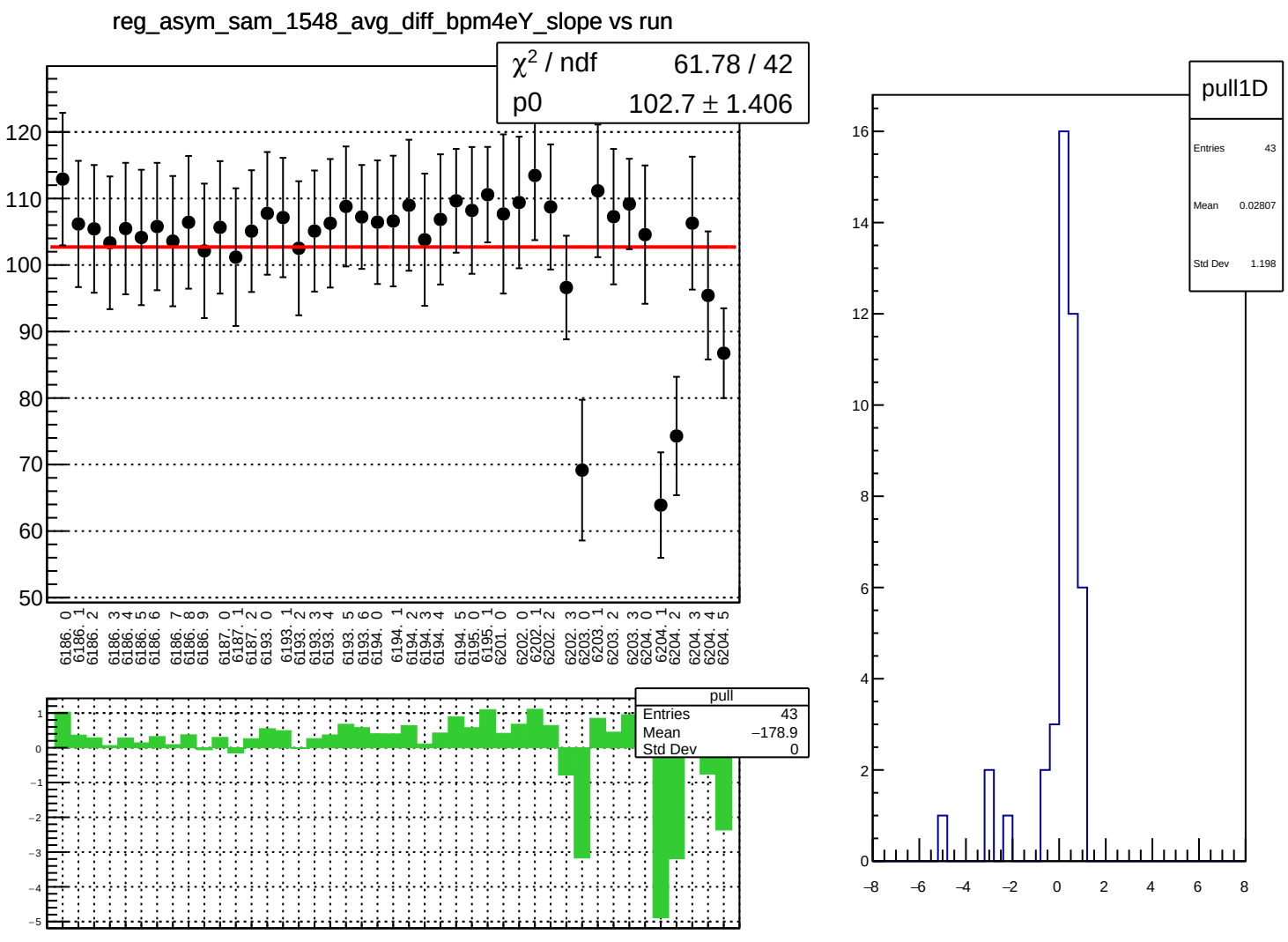

pull1D
Entries 43
Mean −0.05352
Std Dev 1.248
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

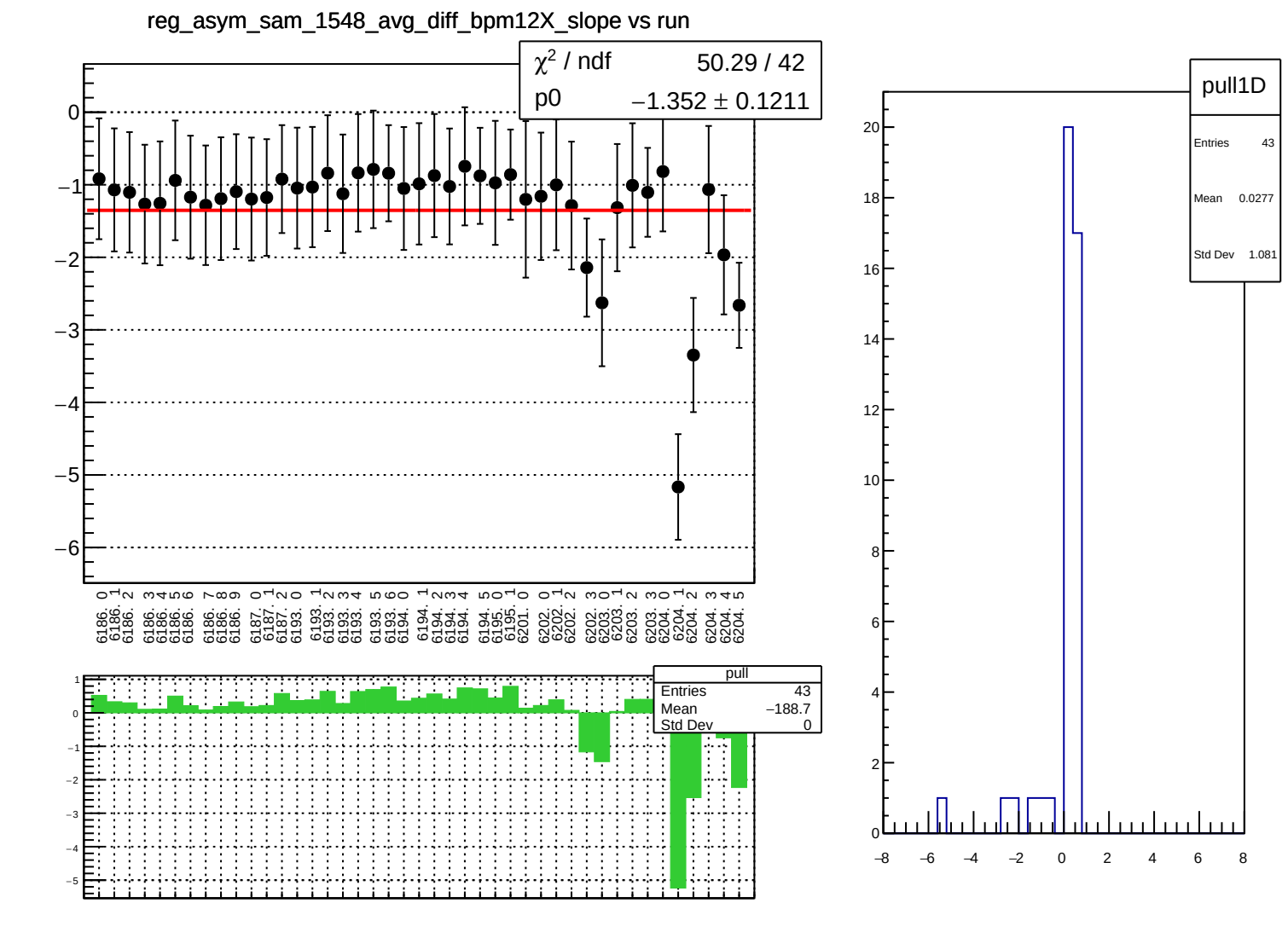

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 46.12 / 42
p0 1.277 ± 0.08743
pull
Entries 43
Mean −138.3
Std Dev 0
pull1D
Entries 43
Mean −0.03365
Std Dev 1.035

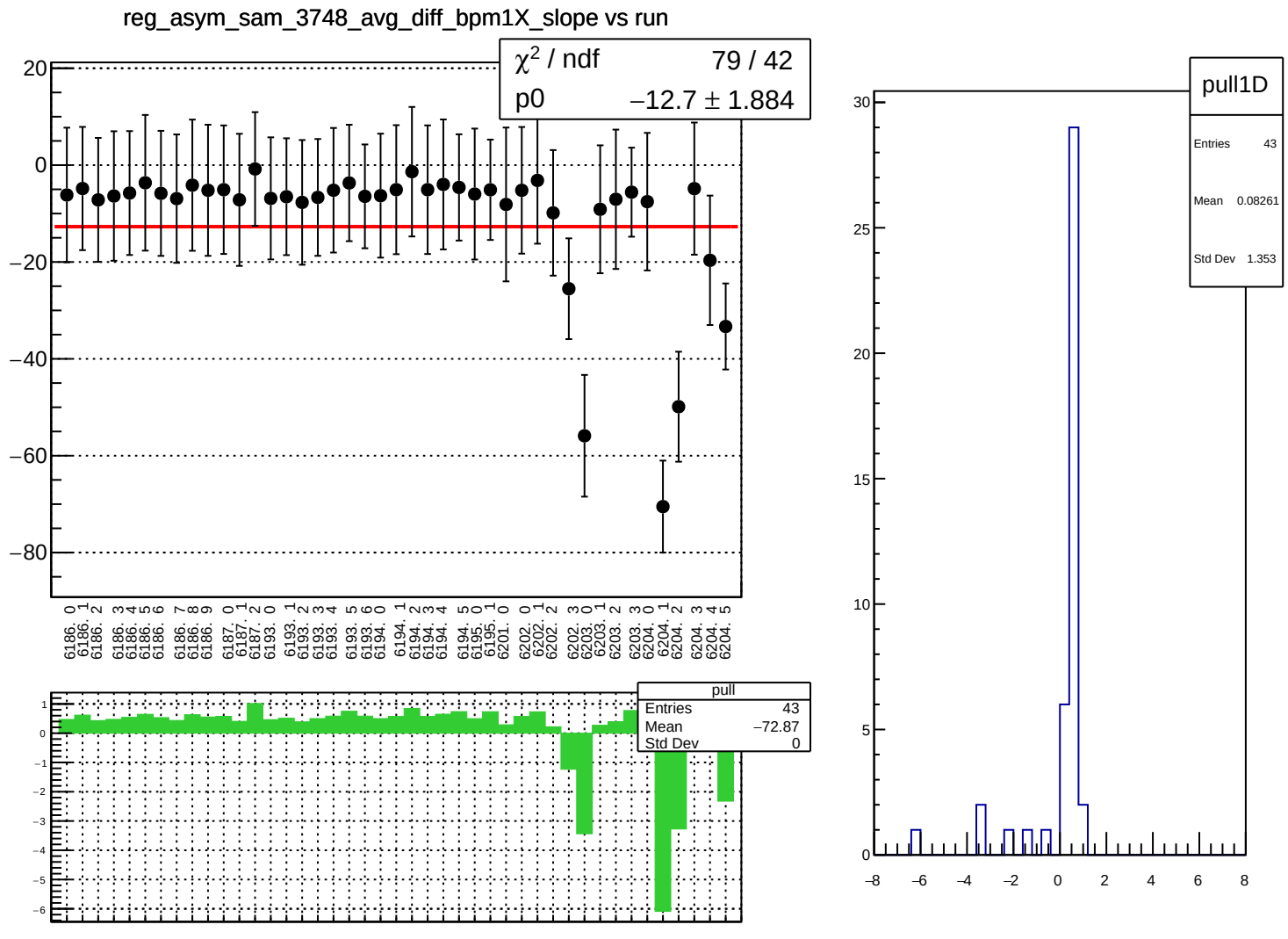

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 119.9 / 42
p0 −12.98 ± 1.333
pull
Entries 43
Mean −64.71
Std Dev 0
pull1D
Entries 43
Mean 0.1135
Std Dev 1.666

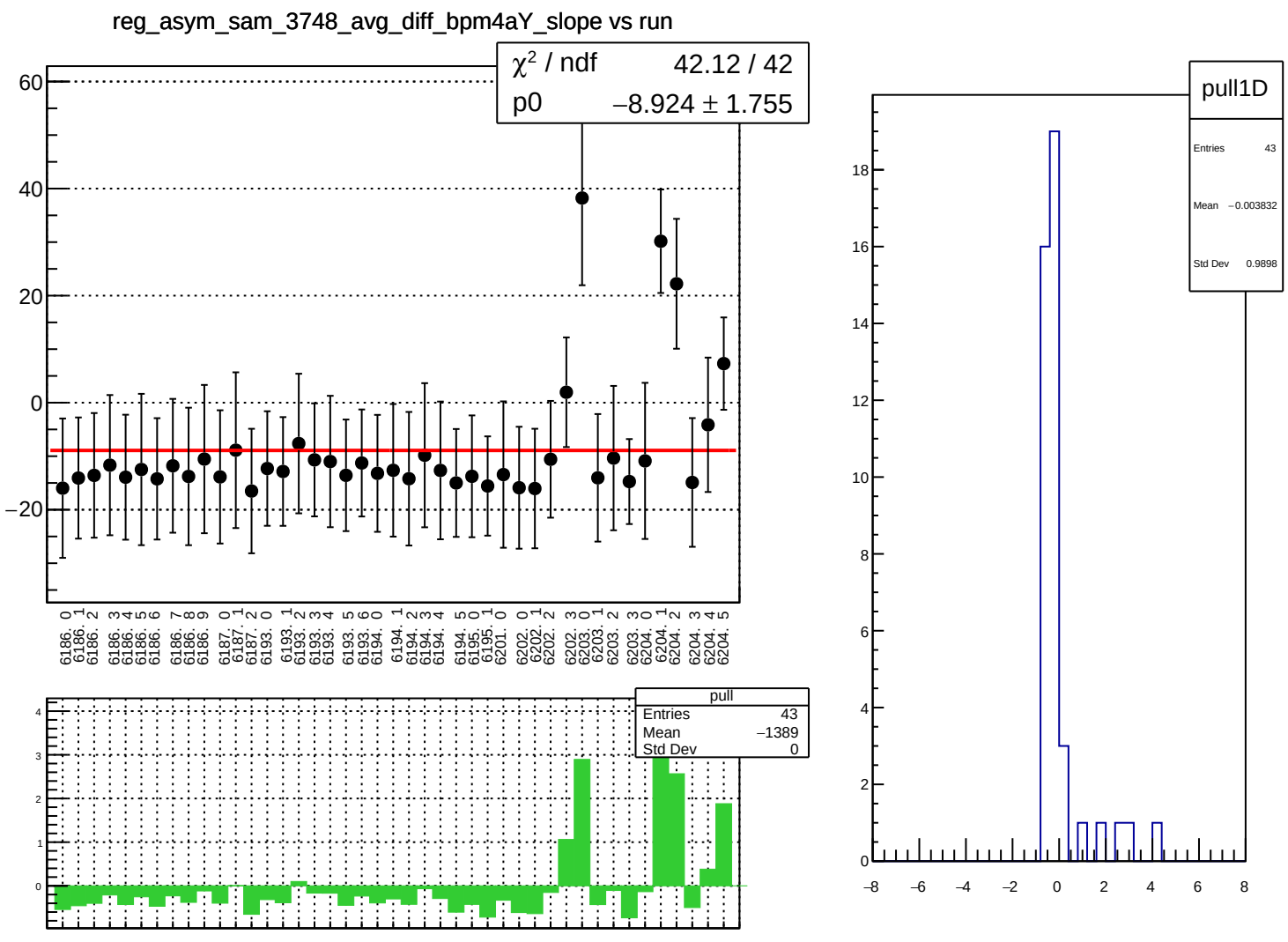

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 66.05 / 42
p0 −7.427 ± 1.25
pull
Entries 43
Mean −437.1
Std Dev 0
pull1D
Entries 43
Mean −0.0145
Std Dev 1.239

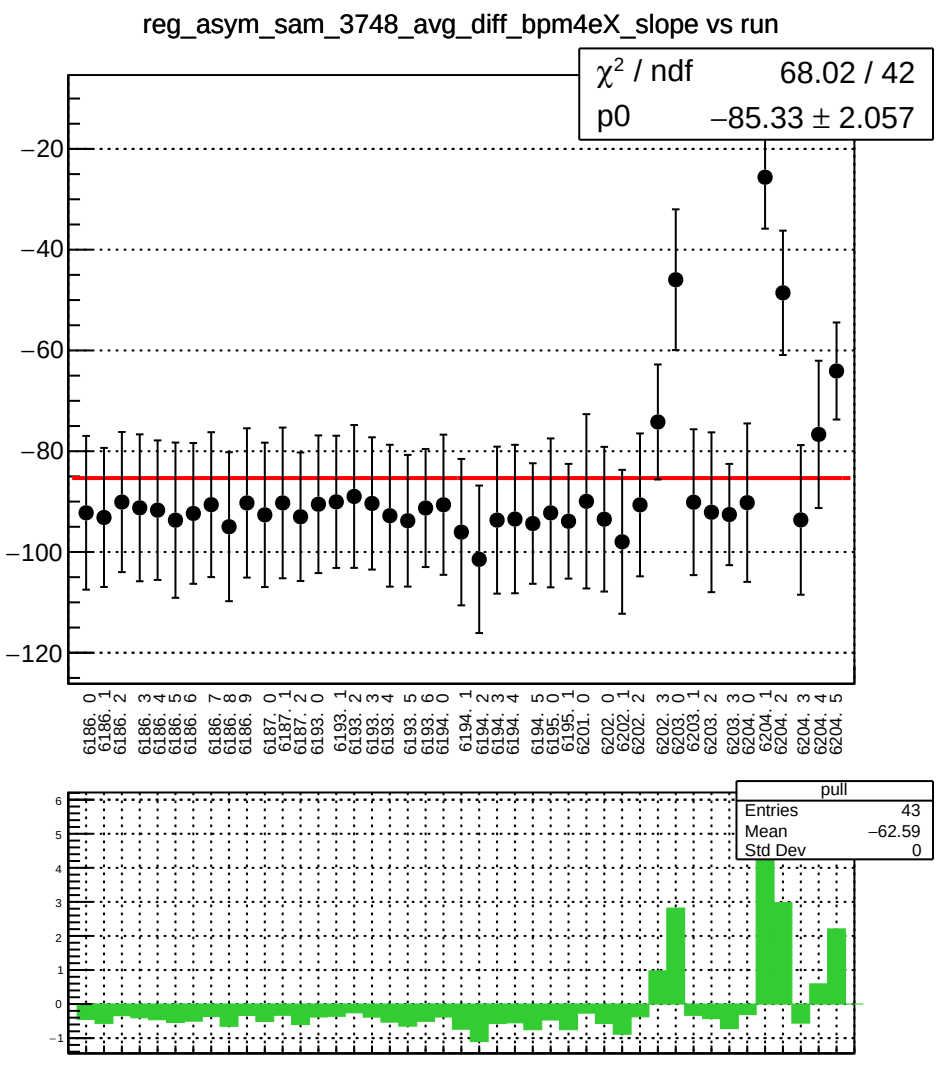

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 109.6 / 42
p0 −49.72 ± 1.456
pull
Entries 43
Mean −60.39
Std Dev 0
pull1D
Entries 43
Mean −0.1121
Std Dev 1.593

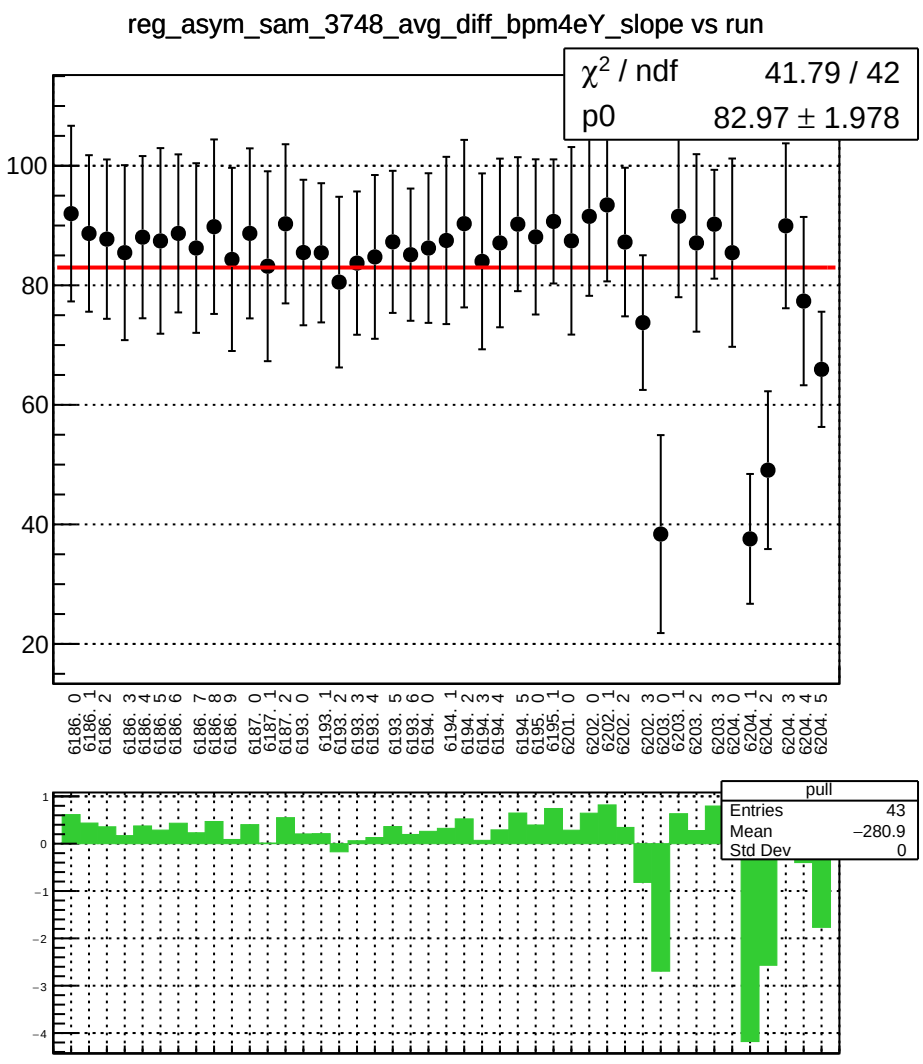

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 61.78 / 42
p0 102.7 ± 1.406
120
110
100
90
80
70
60
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −178.9
Std Dev 0
1
0
−1
−2
−3
−4
−5
pull1D
Entries 43
Mean 0.02807
Std Dev 1.198
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

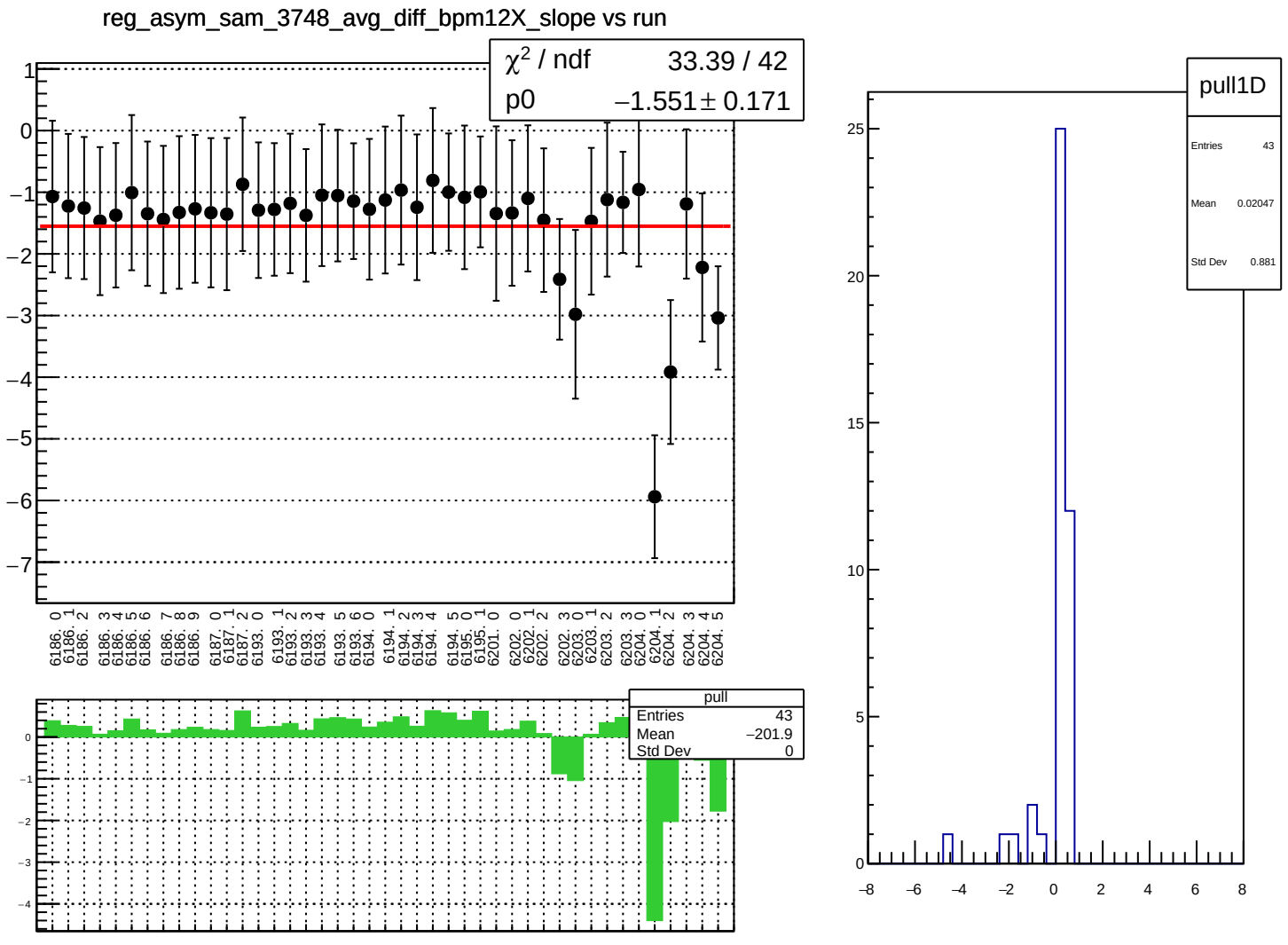

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 50.29 / 42
p0 −1.352 ± 0.1211
pull
Entries 43
Mean −188.7
Std Dev 0
pull1D
Entries 43
Mean 0.0277
Std Dev 1.081

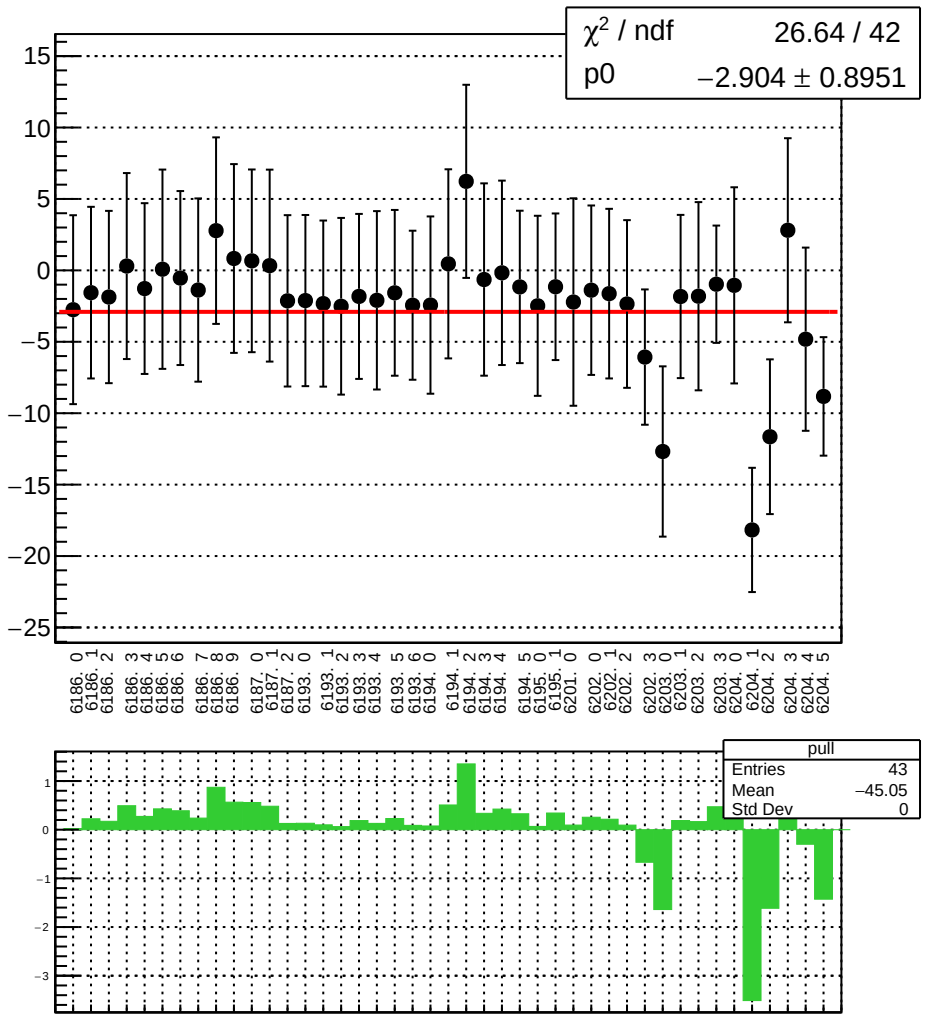

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 79 / 42
p0 −12.7 ± 1.884
pull
Entries 43
Mean −72.87
Std Dev 0
pull1D
Entries 43
Mean 0.08261
Std Dev 1.353

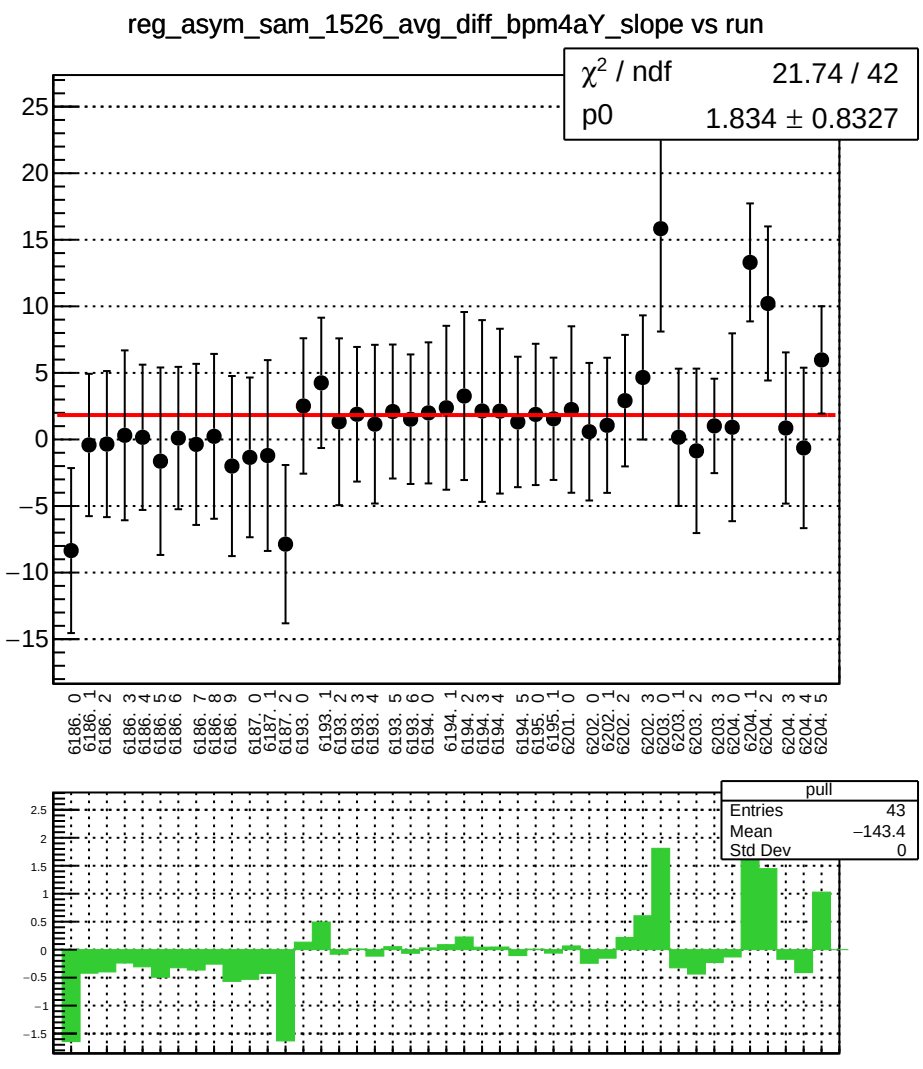

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 42.12 / 42
p0 −8.924 ± 1.755
60
40
20
0
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −1389
Std Dev 0
4
3
2
1
0
pull1D
Entries 43
Mean −0.003832
Std Dev 0.9898
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

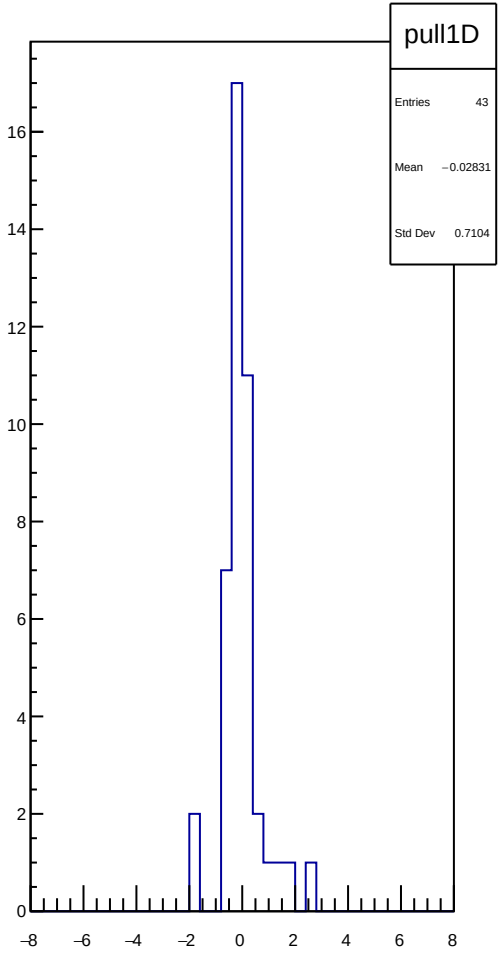

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.02 / 42
p0 −85.33 ± 2.057
−20
−40
−60
−80
−100
−120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −62.59
Std Dev 0
6
5
4
3
2
1
0
−1
pull1D
Entries 43
Mean −0.08082
Std Dev 1.255
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

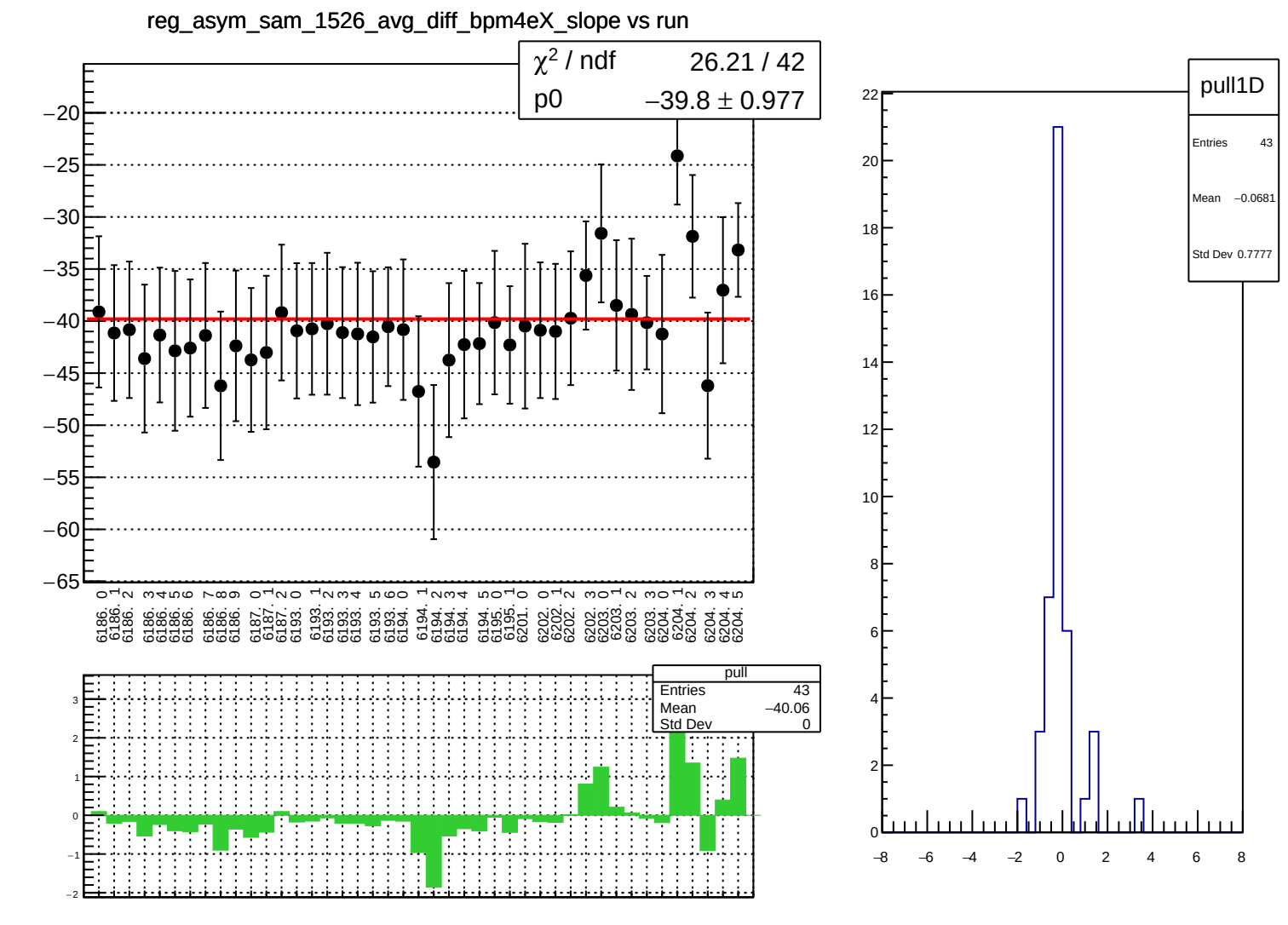

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.79 / 42
p0 82.97 ± 1.978
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −280.9
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean 0.01634
Std Dev 0.9857
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

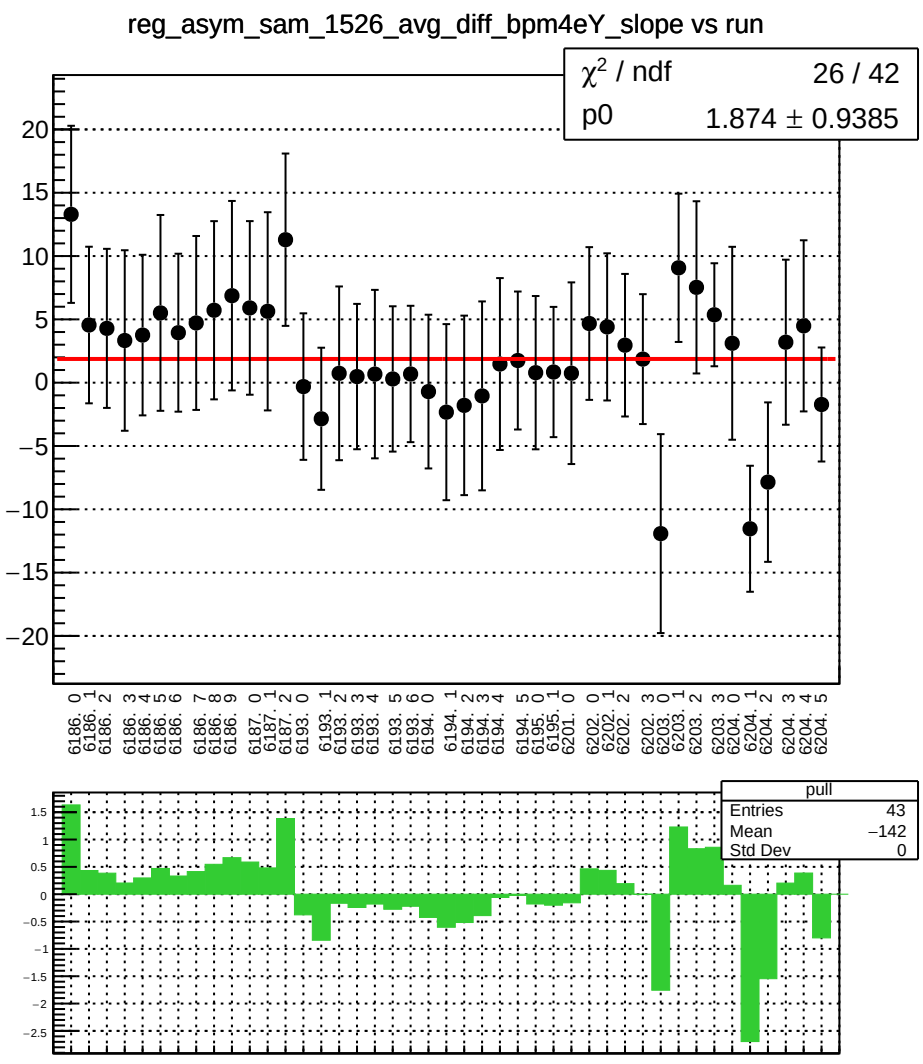

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 33.39 / 42
p0 −1.551 ± 0.171
pull
Entries 43
Mean −201.9
Std Dev 0
pull1D
Entries 43
Mean 0.02047
Std Dev 0.881

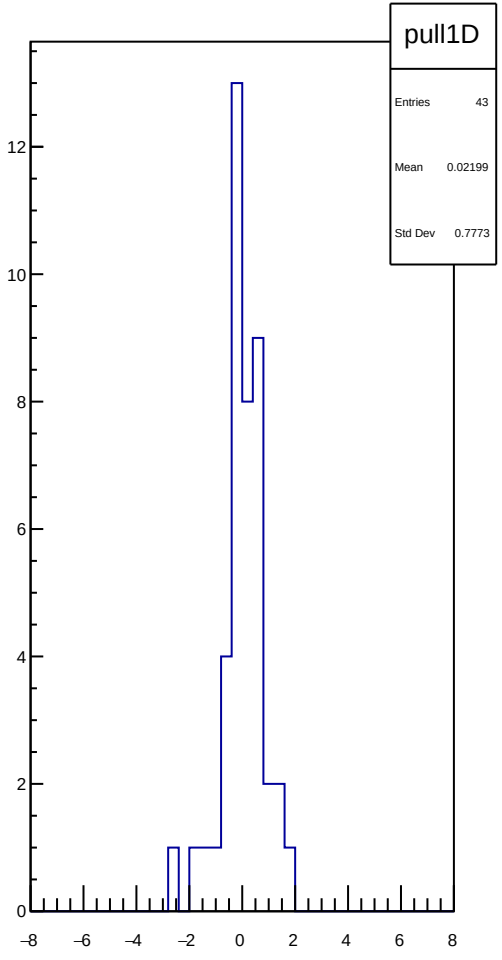

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 26.64 / 42
p0 −2.904 ± 0.8951
pull
Entries 43
Mean −45.05
Std Dev 0
pull1D
Entries 43
Mean 0.06242
Std Dev 0.7846

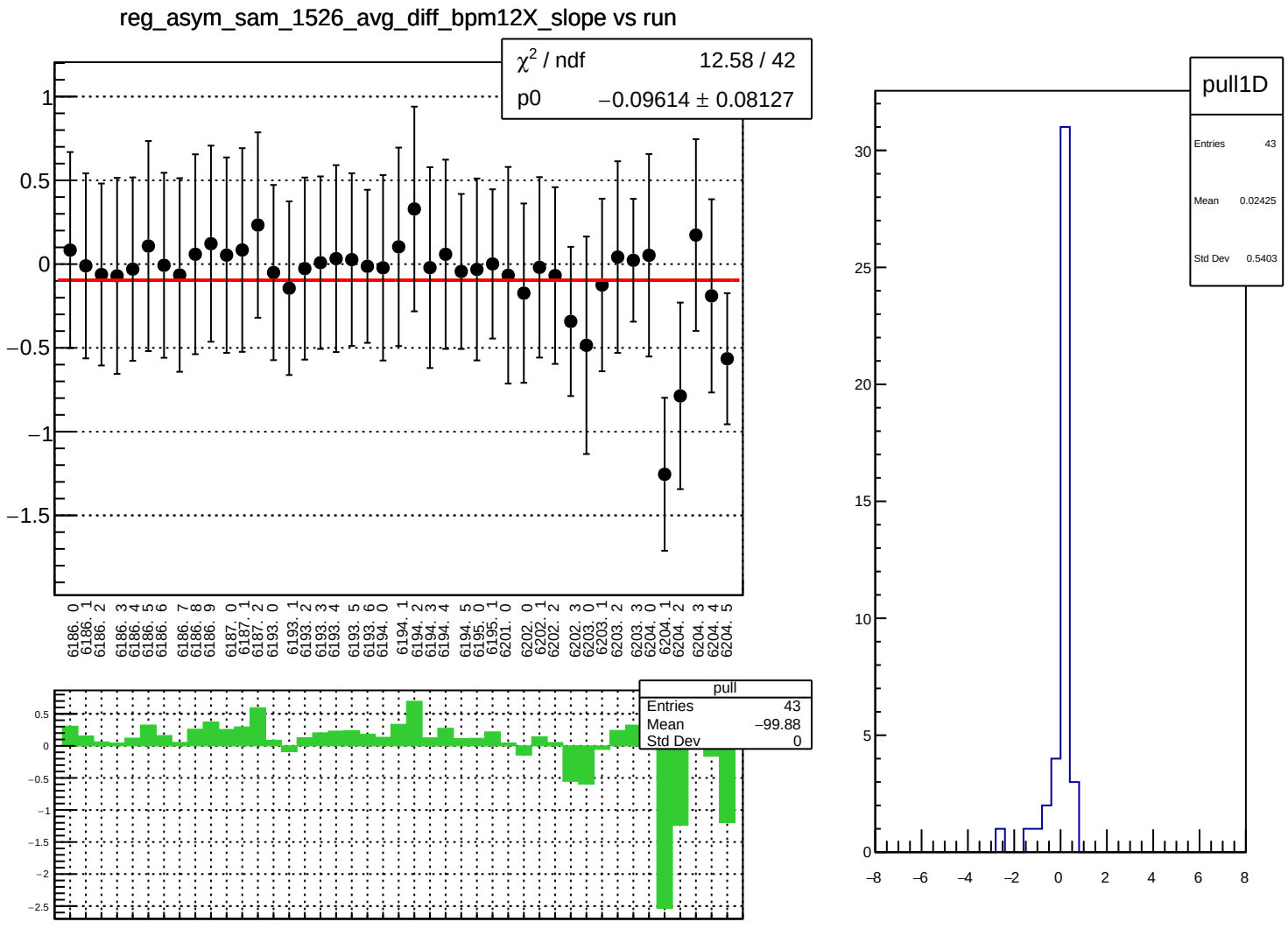

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.74 / 42
p0 1.834 ± 0.8327
pull
Entries 43
Mean −143.4
Std Dev 0

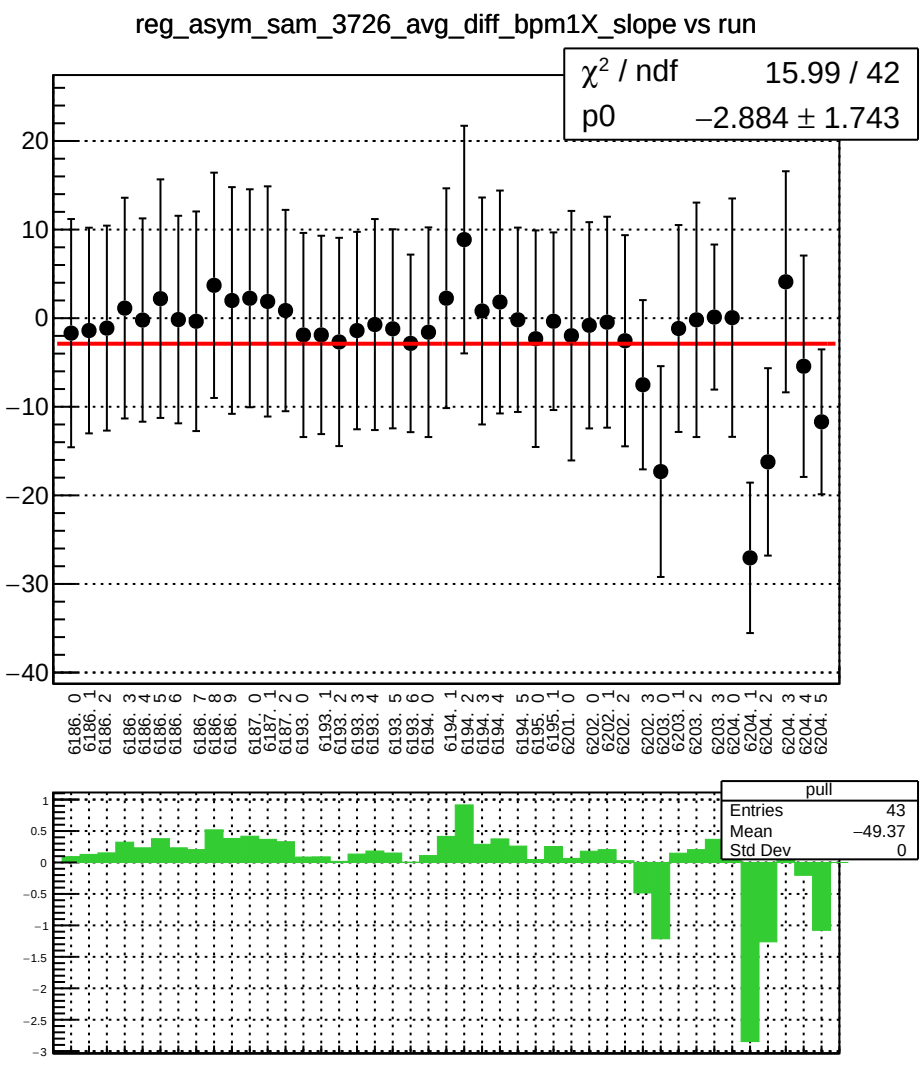

pull1D
Entries 43
Mean −0.02831
Std Dev 0.7104

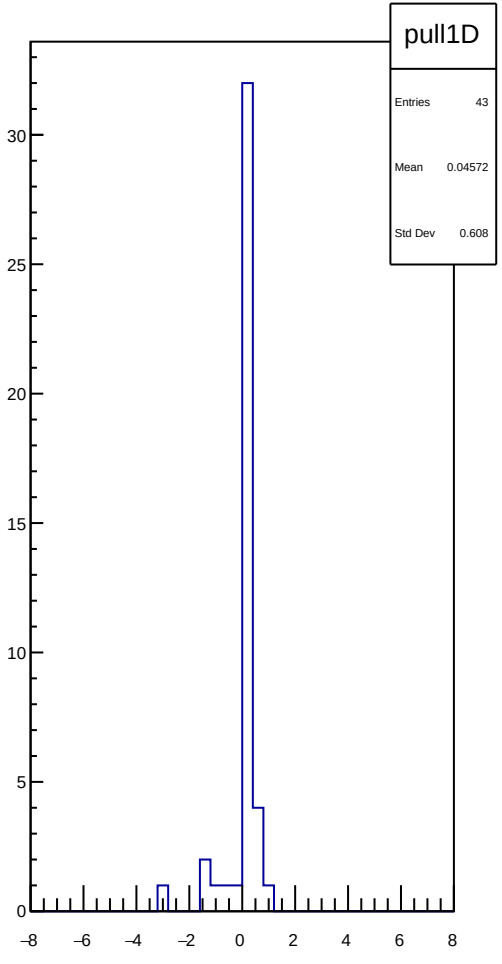

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.21 / 42
p0 −39.8 ± 0.977
pull
Entries 43
Mean −40.06
Std Dev 0
pull1D
Entries 43
Mean −0.0681
Std Dev 0.7777

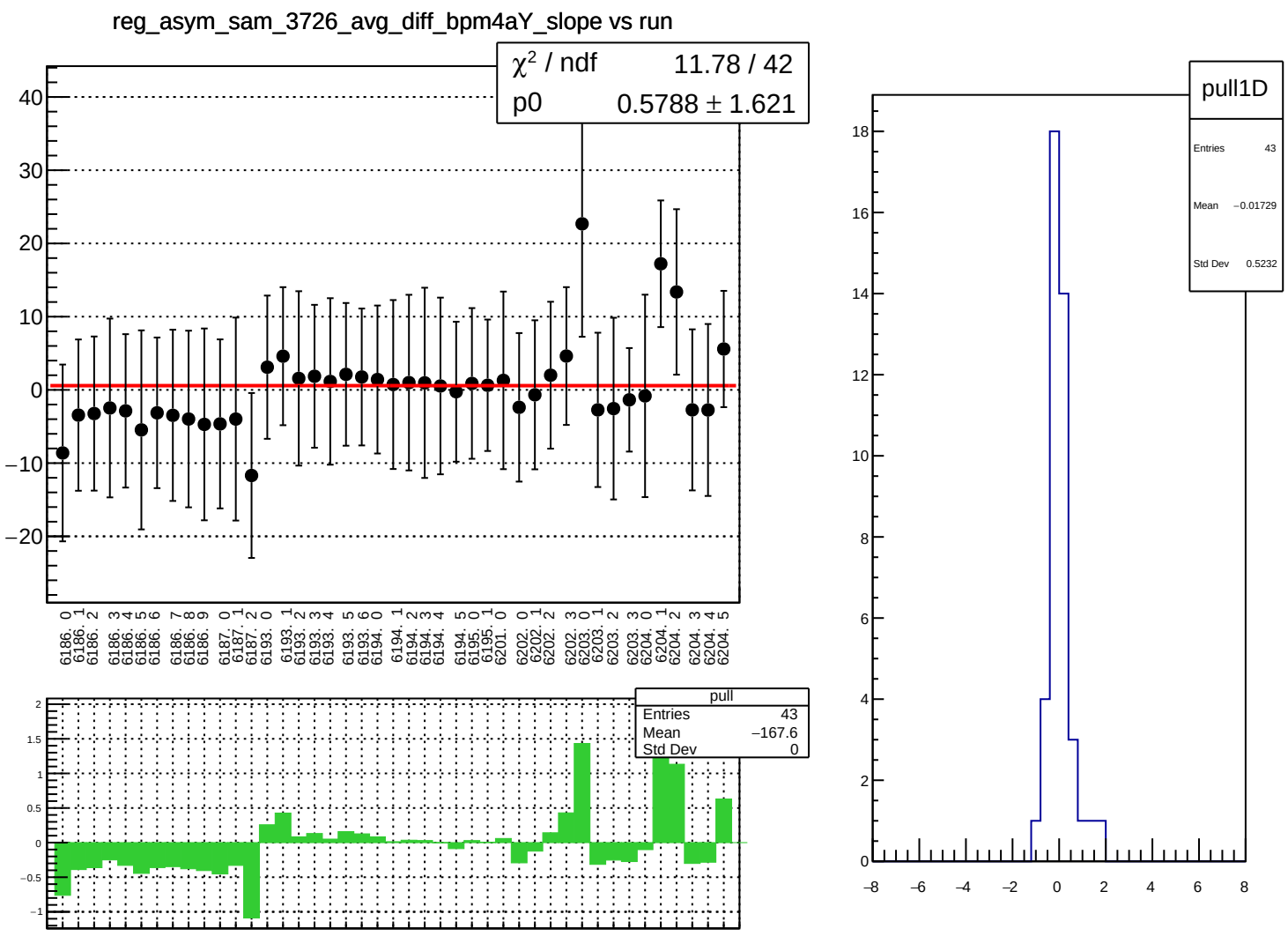

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 26 / 42
p0 1.874 ± 0.9385
pull
Entries 43
Mean −142
Std Dev 0

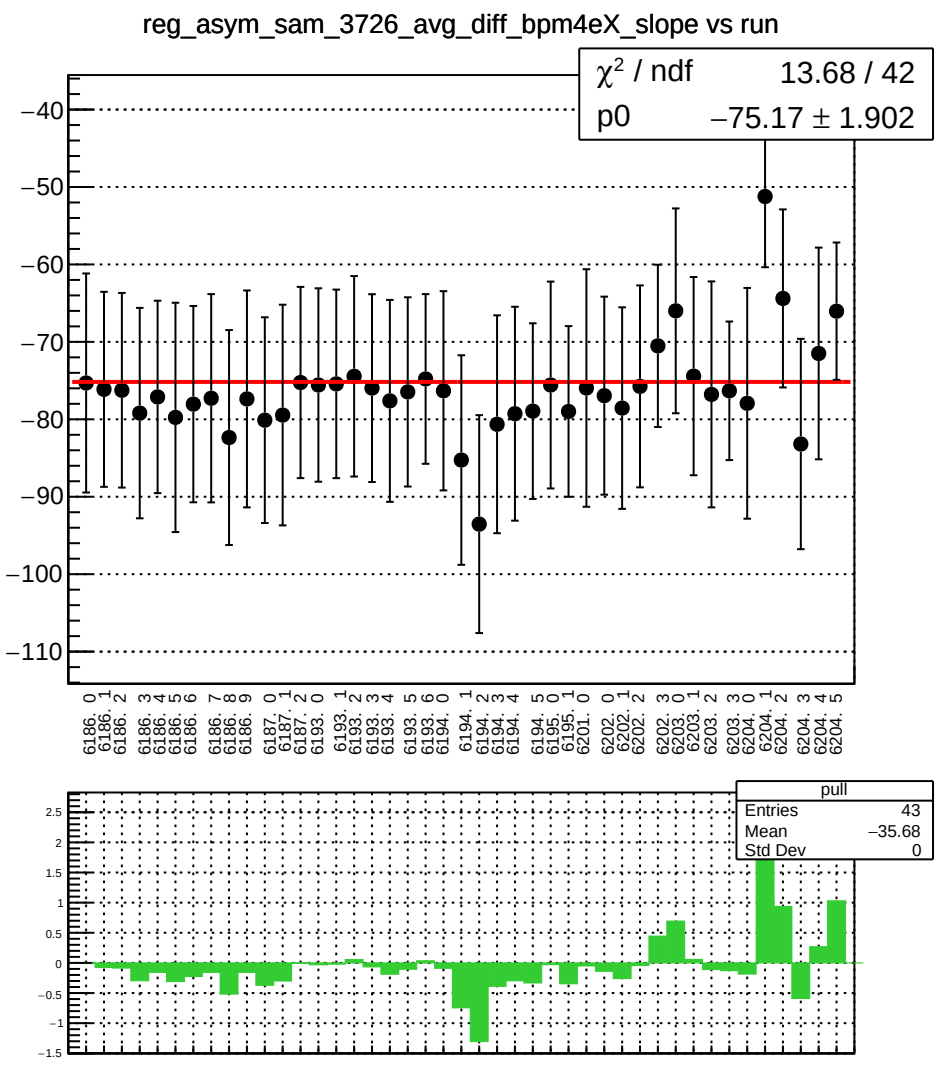

pull1D
Entries 43
Mean 0.02199
Std Dev 0.7773

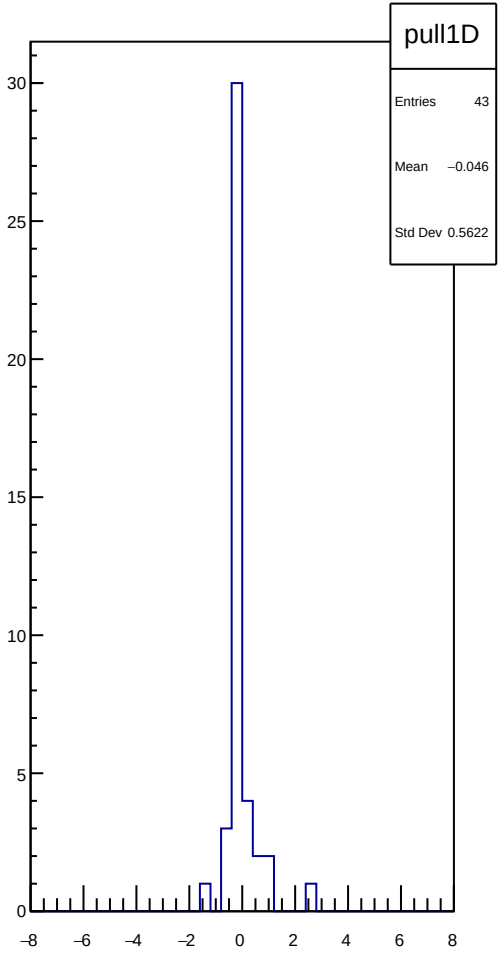

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 12.58 / 42
p0 −0.09614 ± 0.08127
pull
Entries 43
Mean −99.88
Std Dev 0
pull1D
Entries 43
Mean 0.02425
Std Dev 0.5403

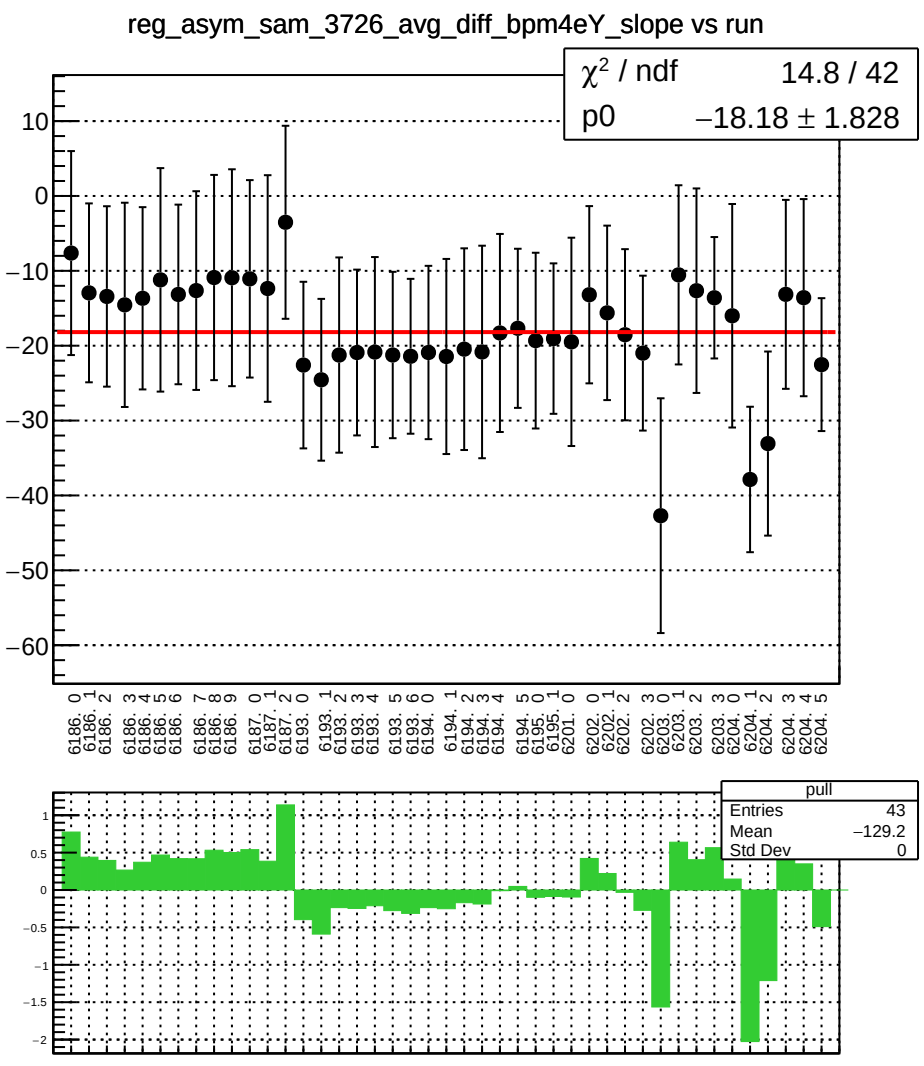

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 15.99 / 42
p0 −2.884 ± 1.743
pull
Entries 43
Mean −49.37
Std Dev 0

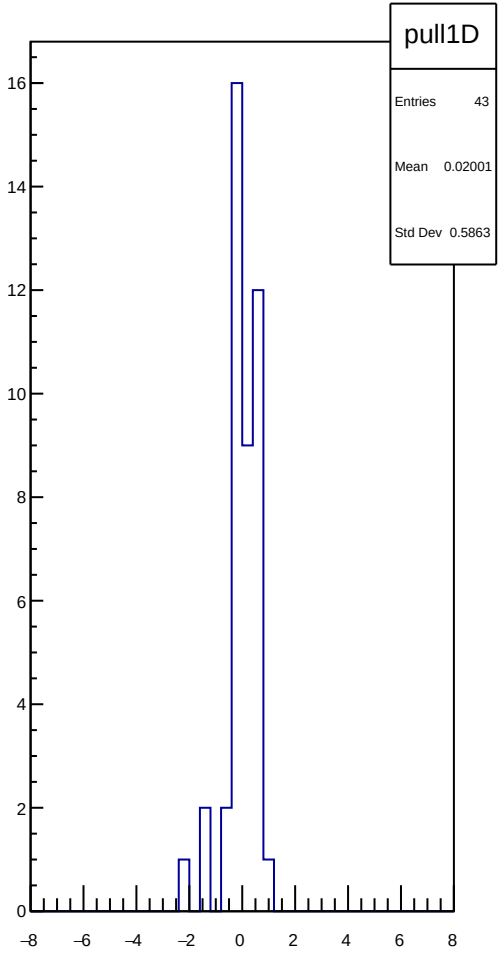

pull1D
Entries 43
Mean 0.04572
Std Dev 0.608

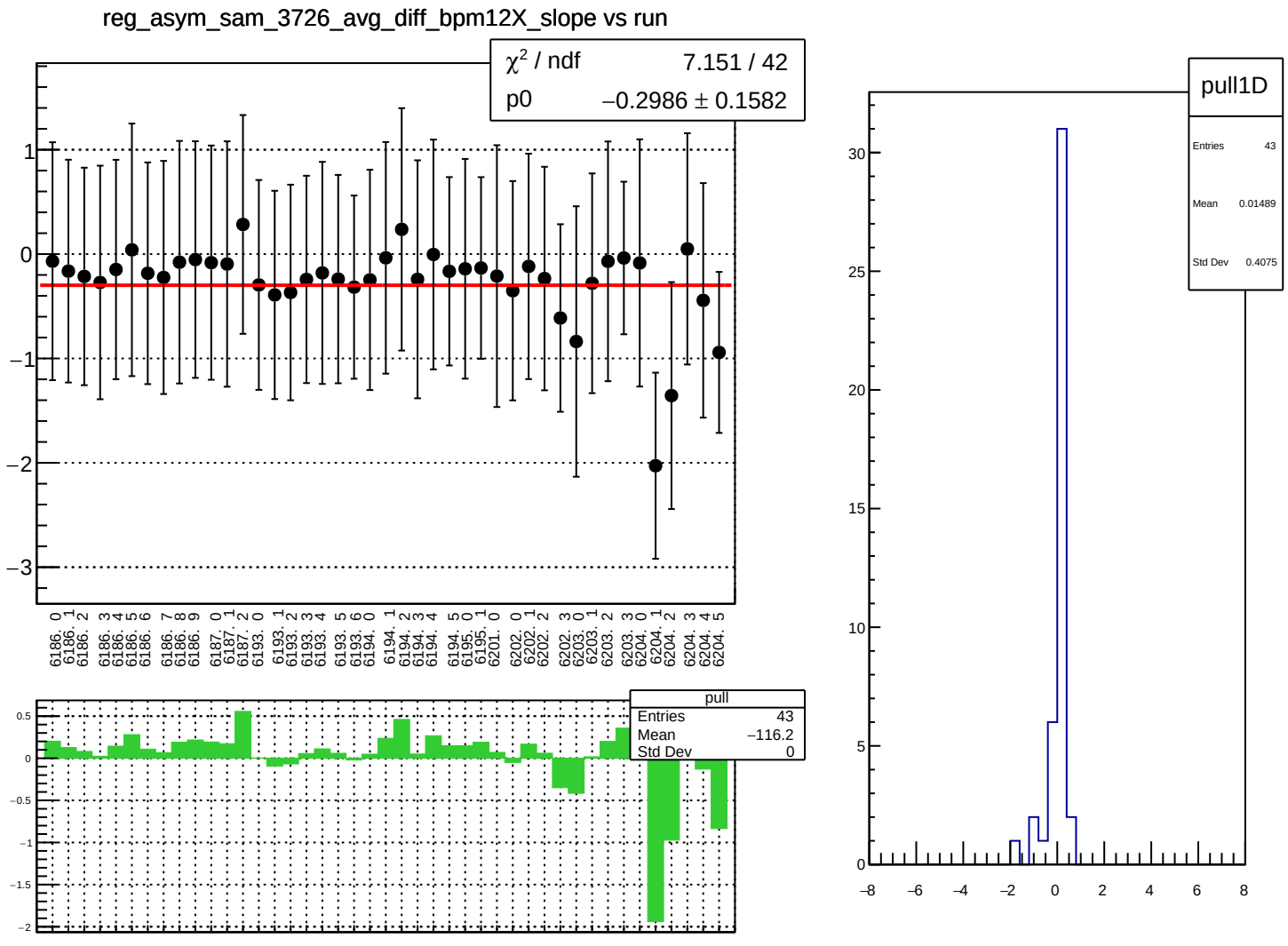

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.78 / 42
p0 0.5788 ± 1.621
40
30
20
10
0
−10
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −167.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.01729
Std Dev 0.5232
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

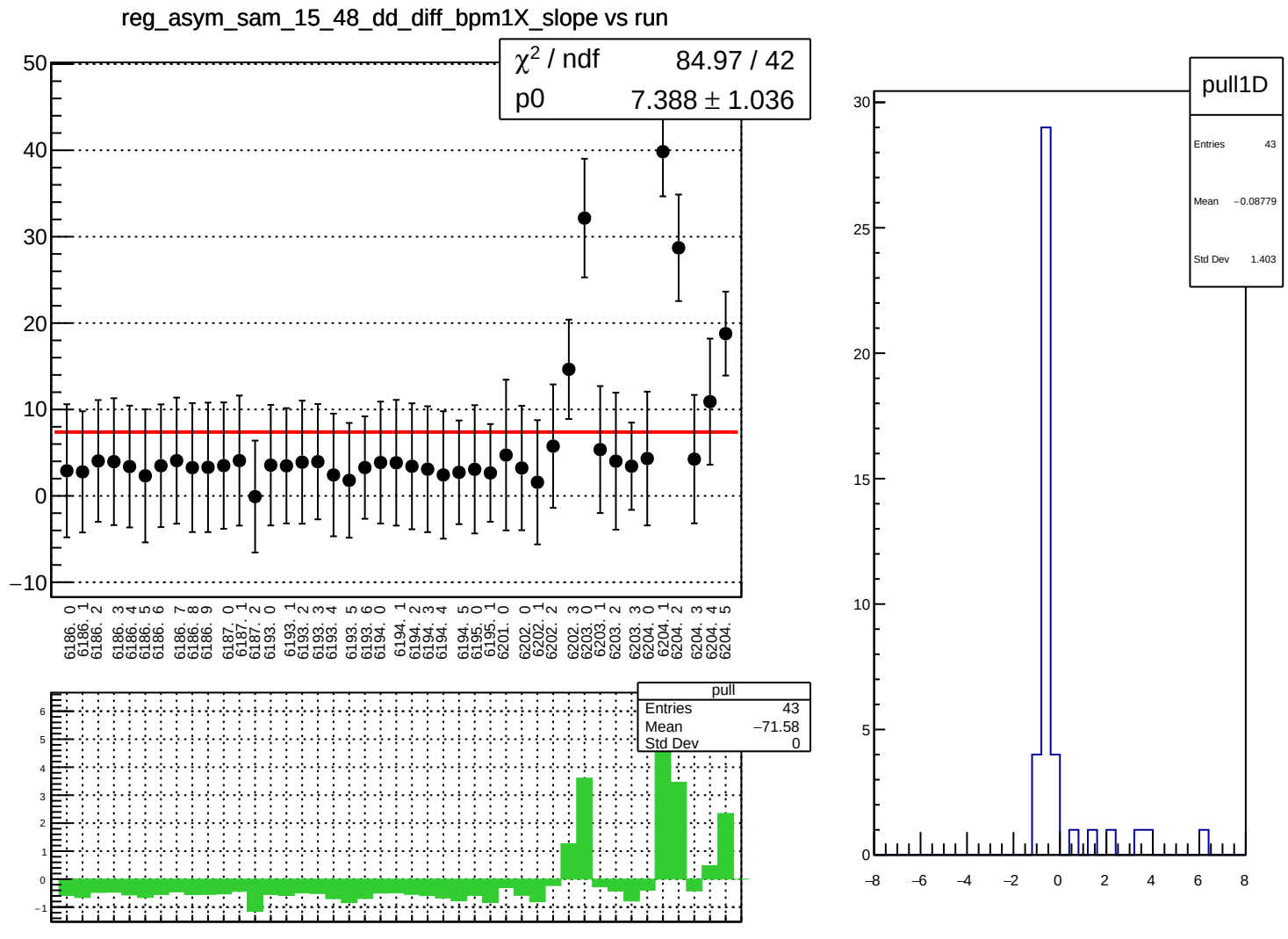

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.68 / 42
p0 −75.17 ± 1.902
pull
Entries 43
Mean −35.68
Std Dev 0

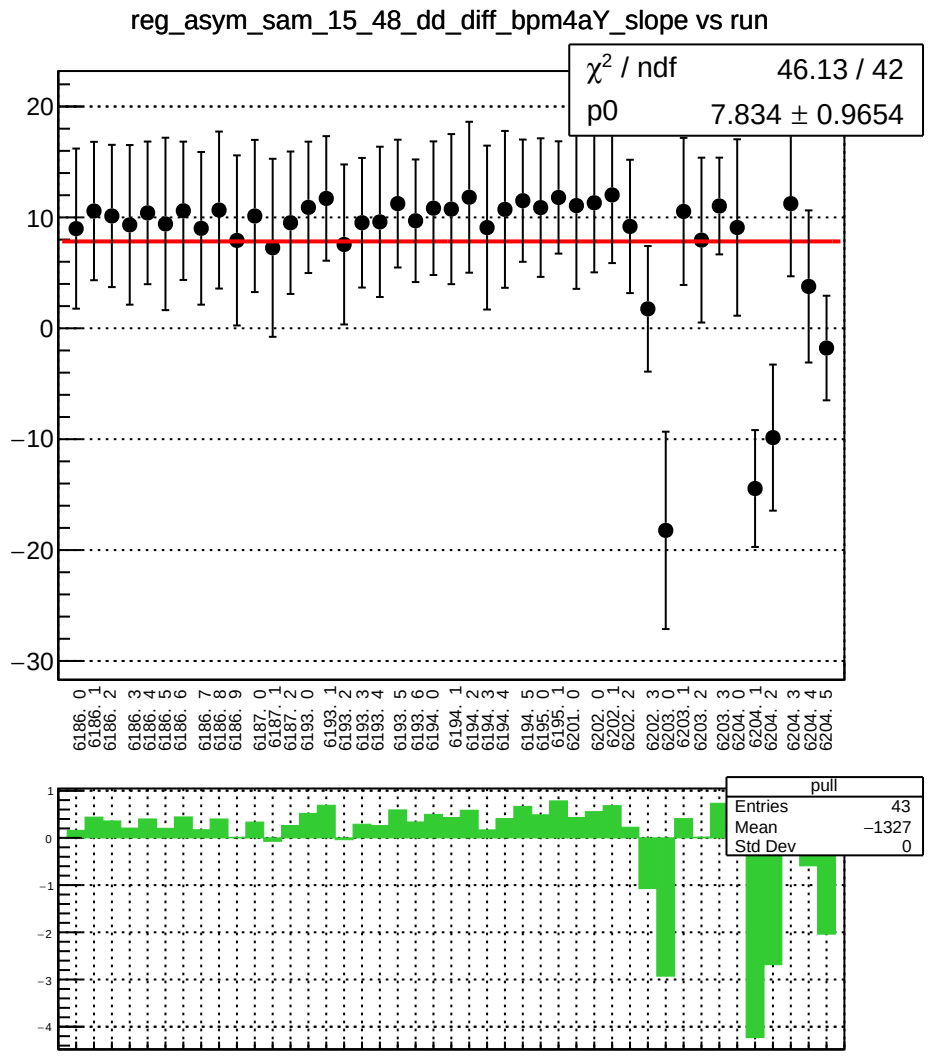

pull1D
Entries 43
Mean −0.046
Std Dev 0.5622

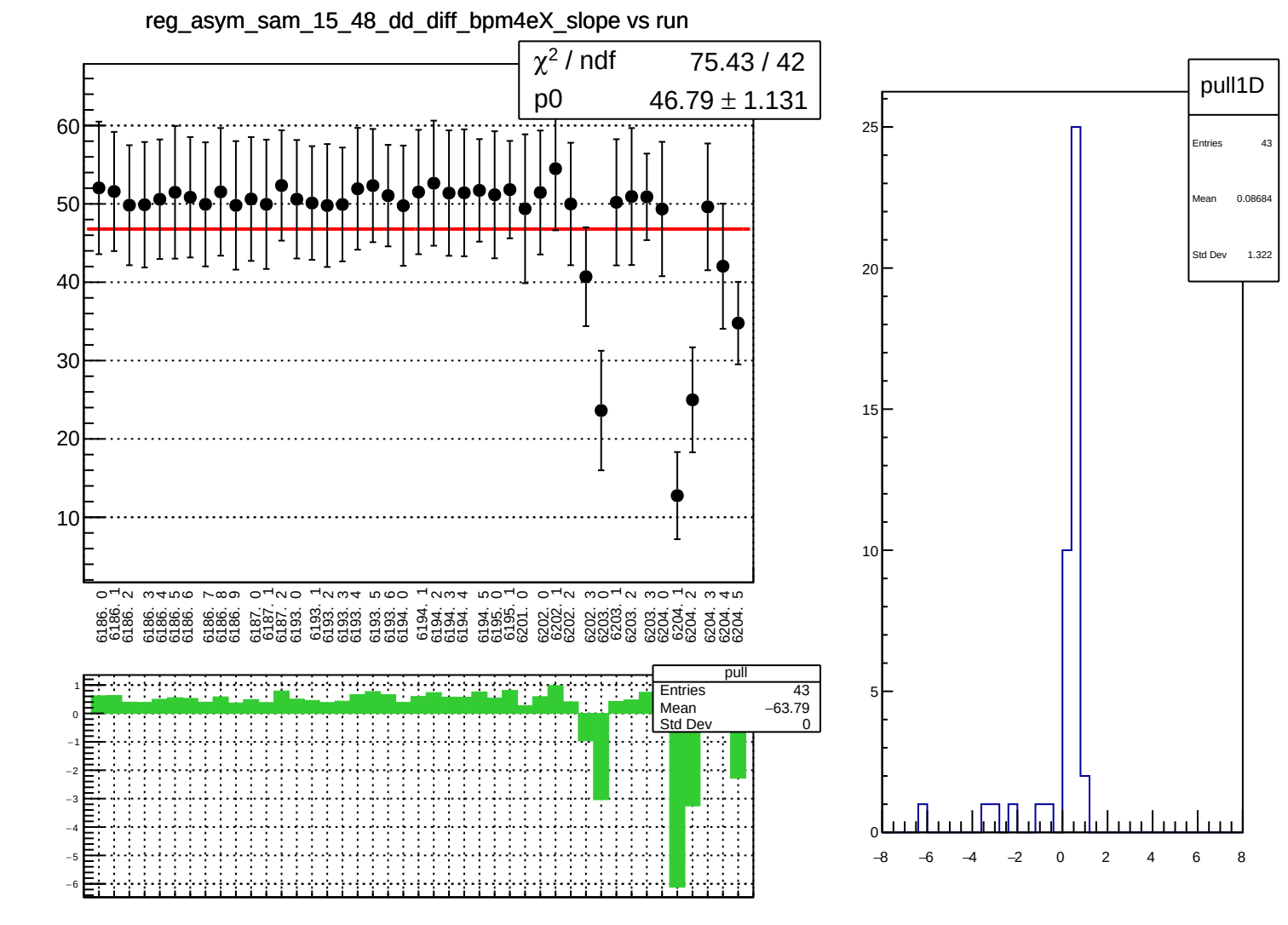

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.8 / 42
p0 −18.18 ± 1.828
pull
Entries 43
Mean −129.2
Std Dev 0

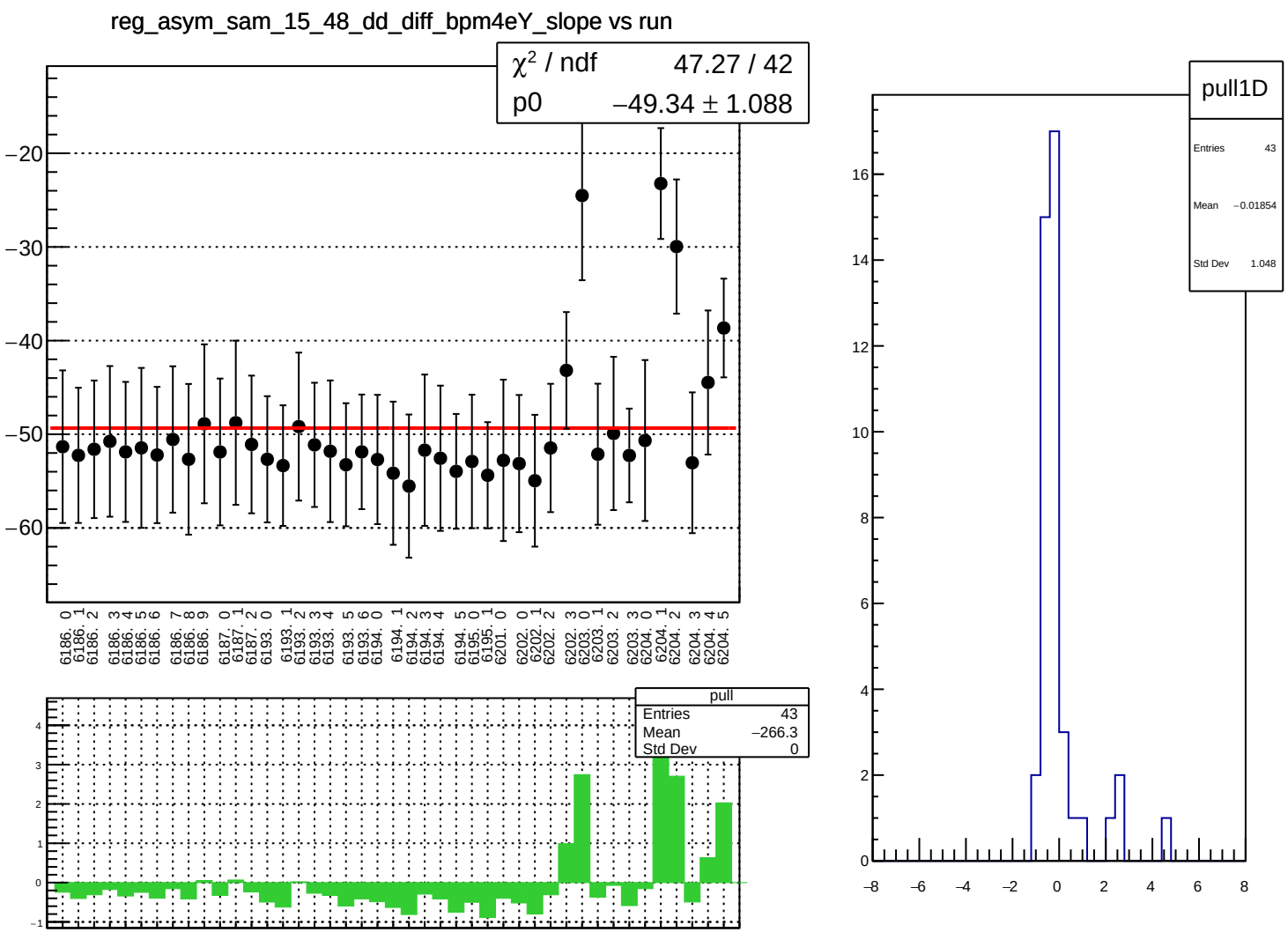

pull1D
Entries 43
Mean 0.02001
Std Dev 0.5863

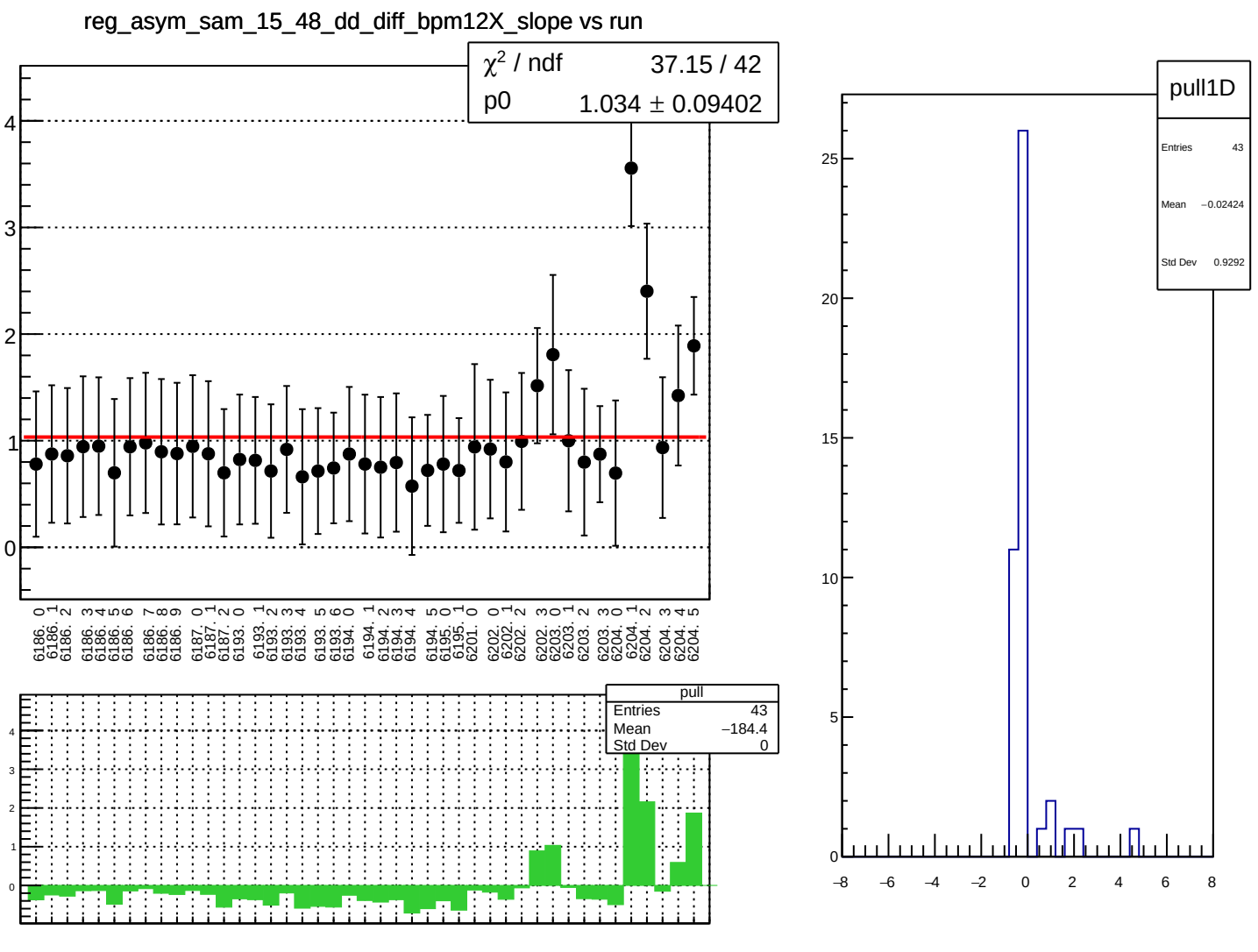

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 7.151 / 42
p0 −0.2986 ± 0.1582
pull
Entries 43
Mean −116.2
Std Dev 0
pull1D
Entries 43
Mean 0.01489
Std Dev 0.4075

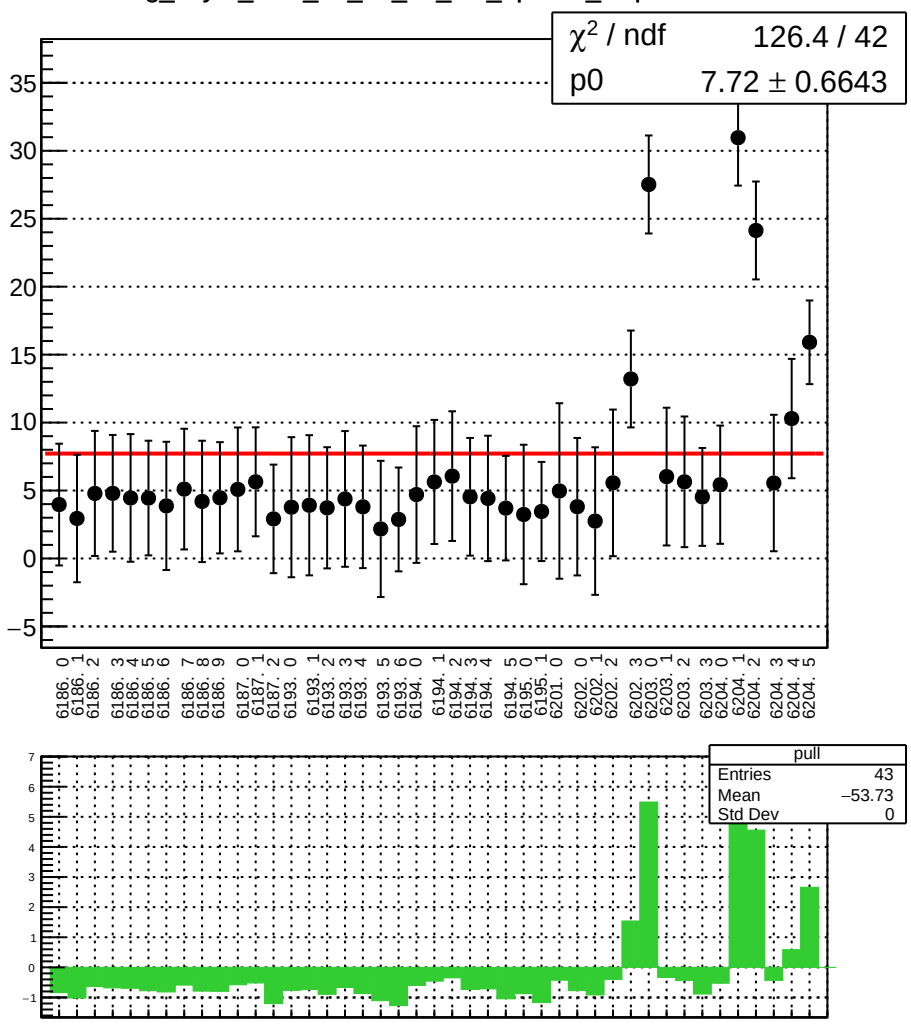

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 84.97 / 42
p0 7.388 ± 1.036
pull
Entries 43
Mean −71.58
Std Dev 0
pull1D
Entries 43
Mean −0.08779
Std Dev 1.403

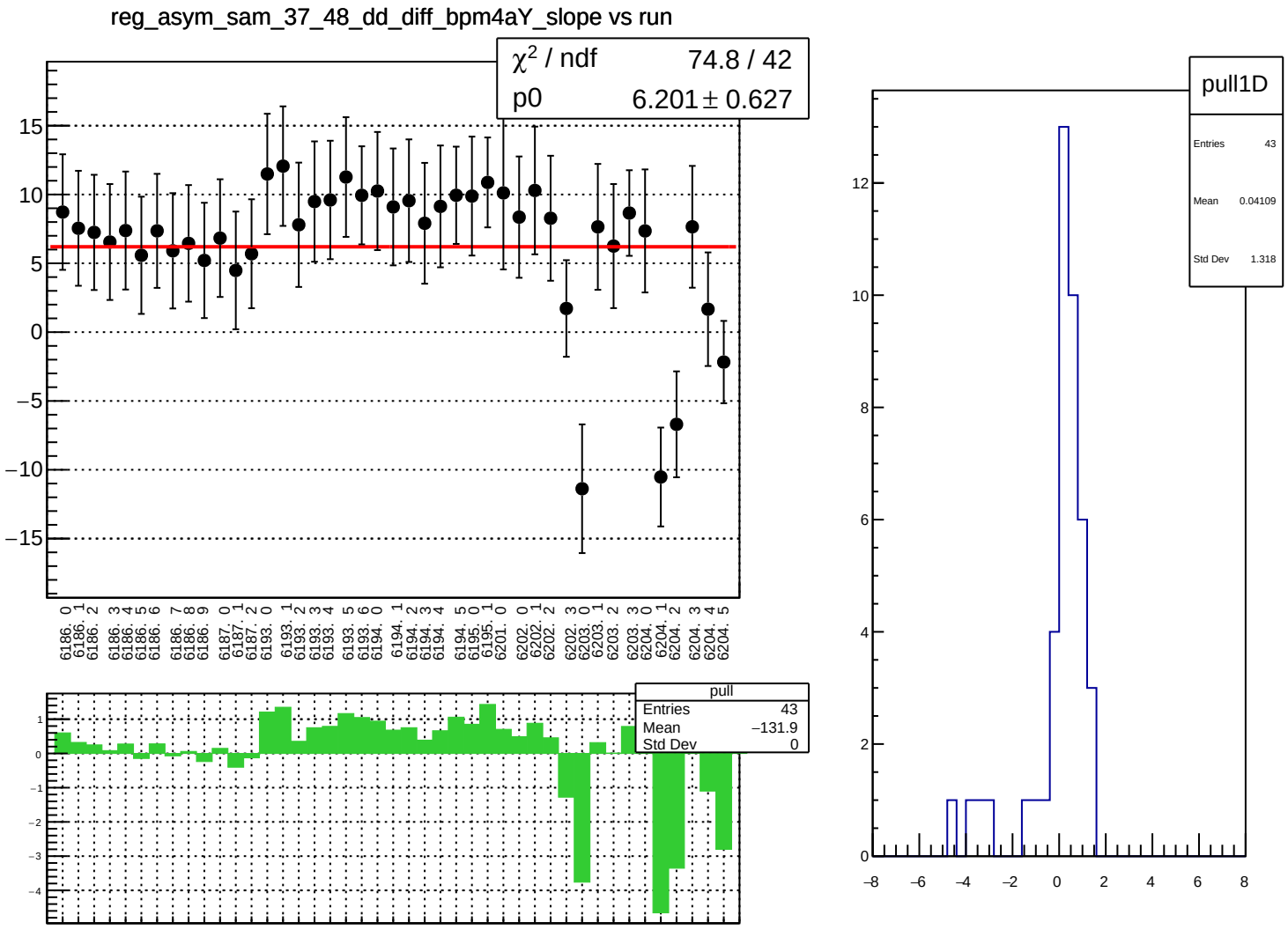

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.13 / 42
p0 7.834 ± 0.9654
pull
Entries 43
Mean −1327
Std Dev 0
pull1D
Entries 43
Mean 0.003996
Std Dev 1.036

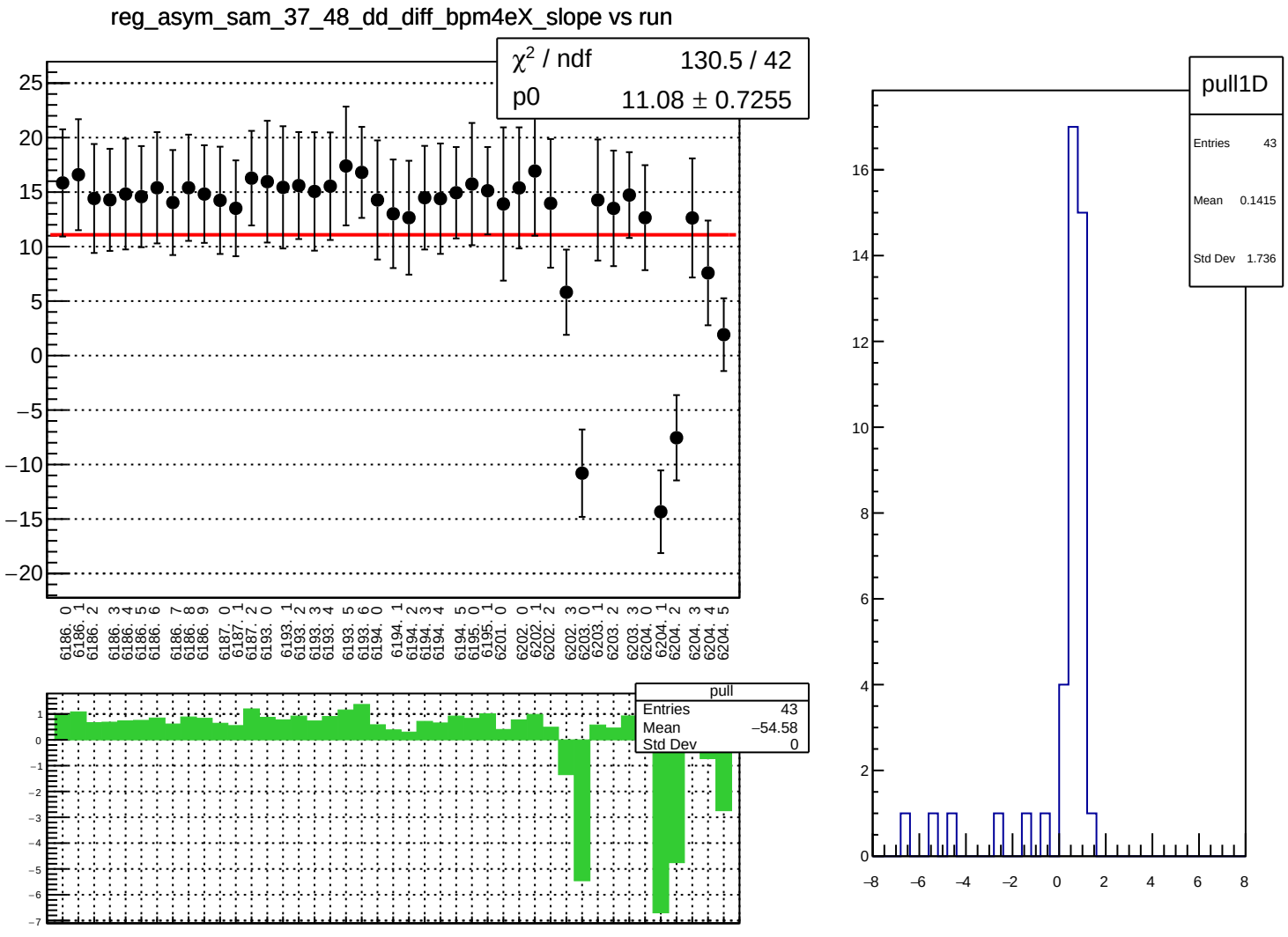

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.43 / 42
p0 46.79 ± 1.131
pull
Entries 43
Mean −63.79
Std Dev 0
pull1D
Entries 43
Mean 0.08684
Std Dev 1.322

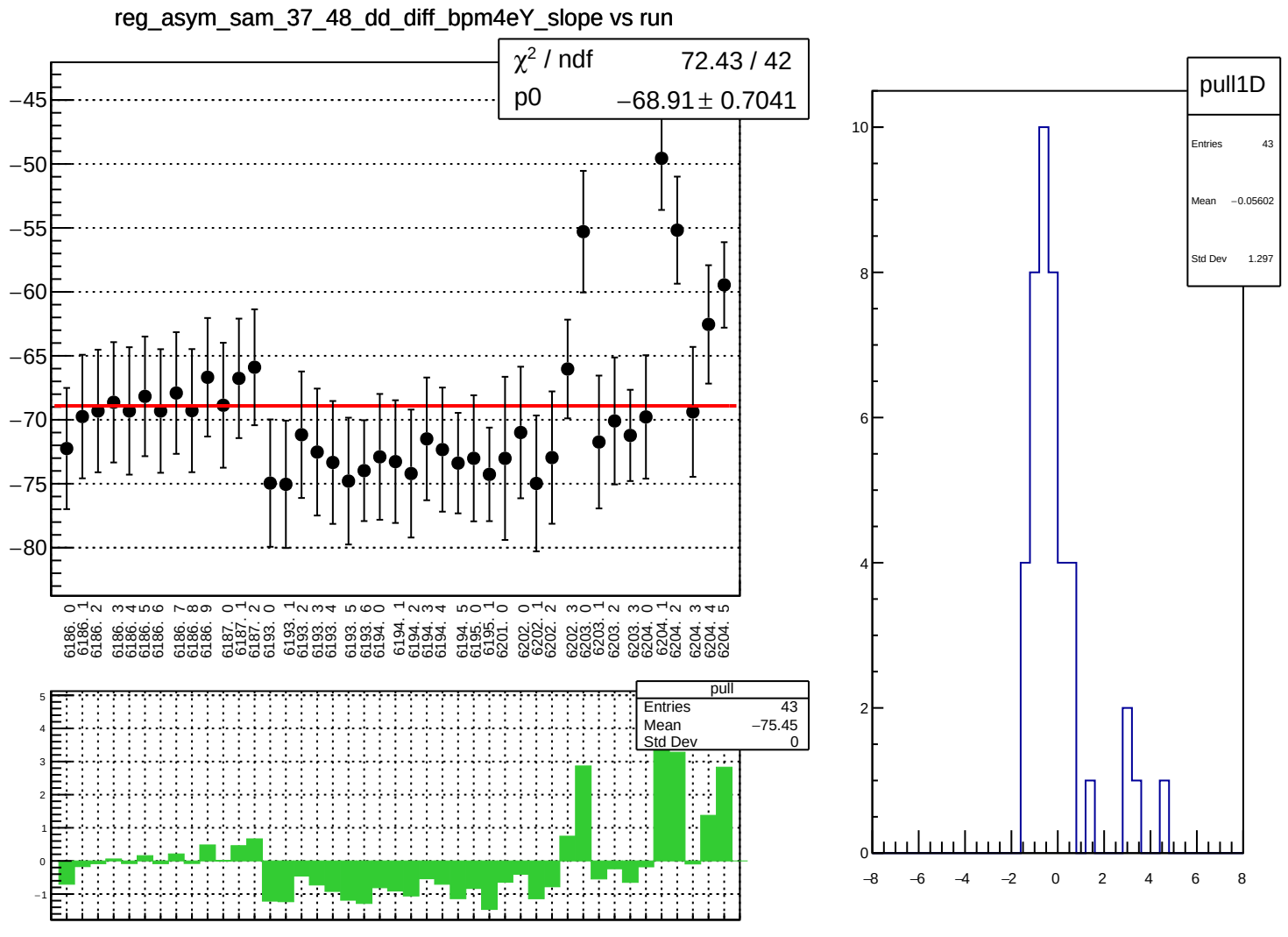

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.27 / 42
p0 −49.34 ± 1.088
−20
−30
−40
−50
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −266.3
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 43
Mean −0.01854
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

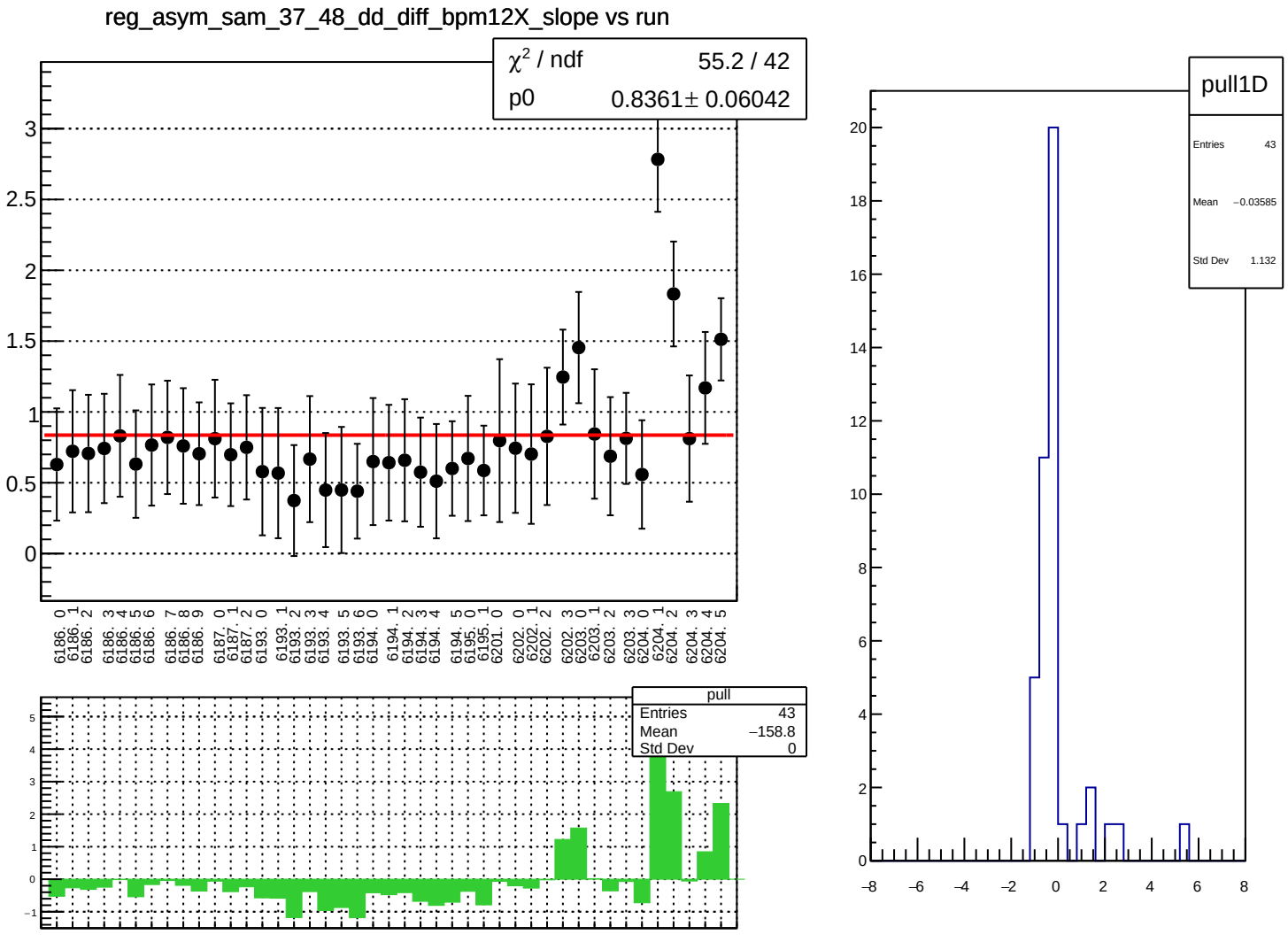

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 37.15 / 42
p0 1.034 ± 0.09402
pull
Entries 43
Mean −184.4
Std Dev 0
pull1D
Entries 43
Mean −0.02424
Std Dev 0.9292

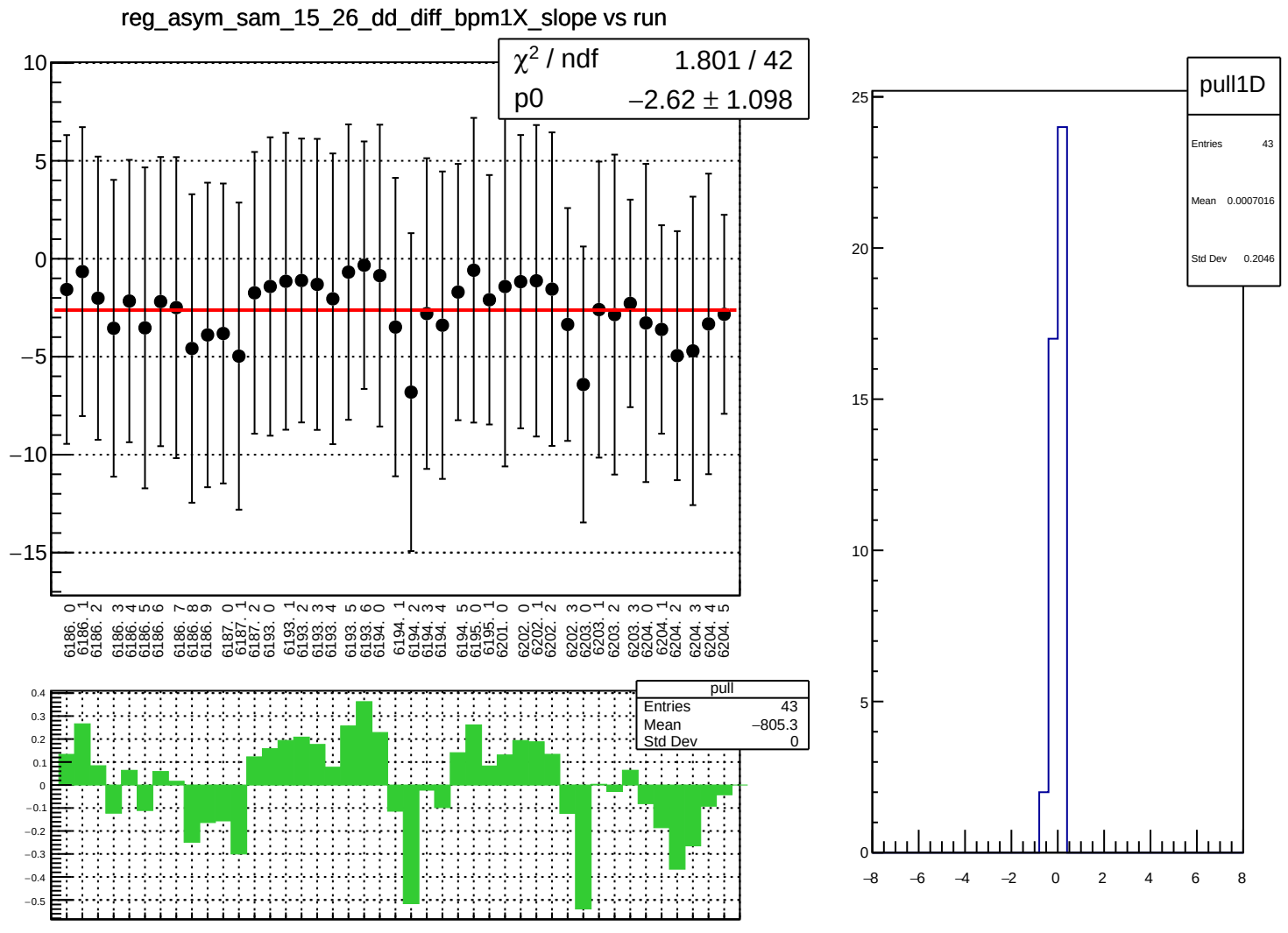

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 126.4 / 42
p0 7.72 ± 0.6643
pull
Entries 43
Mean −53.73
Std Dev 0
pull1D
Entries 43
Mean −0.1368
Std Dev 1.709

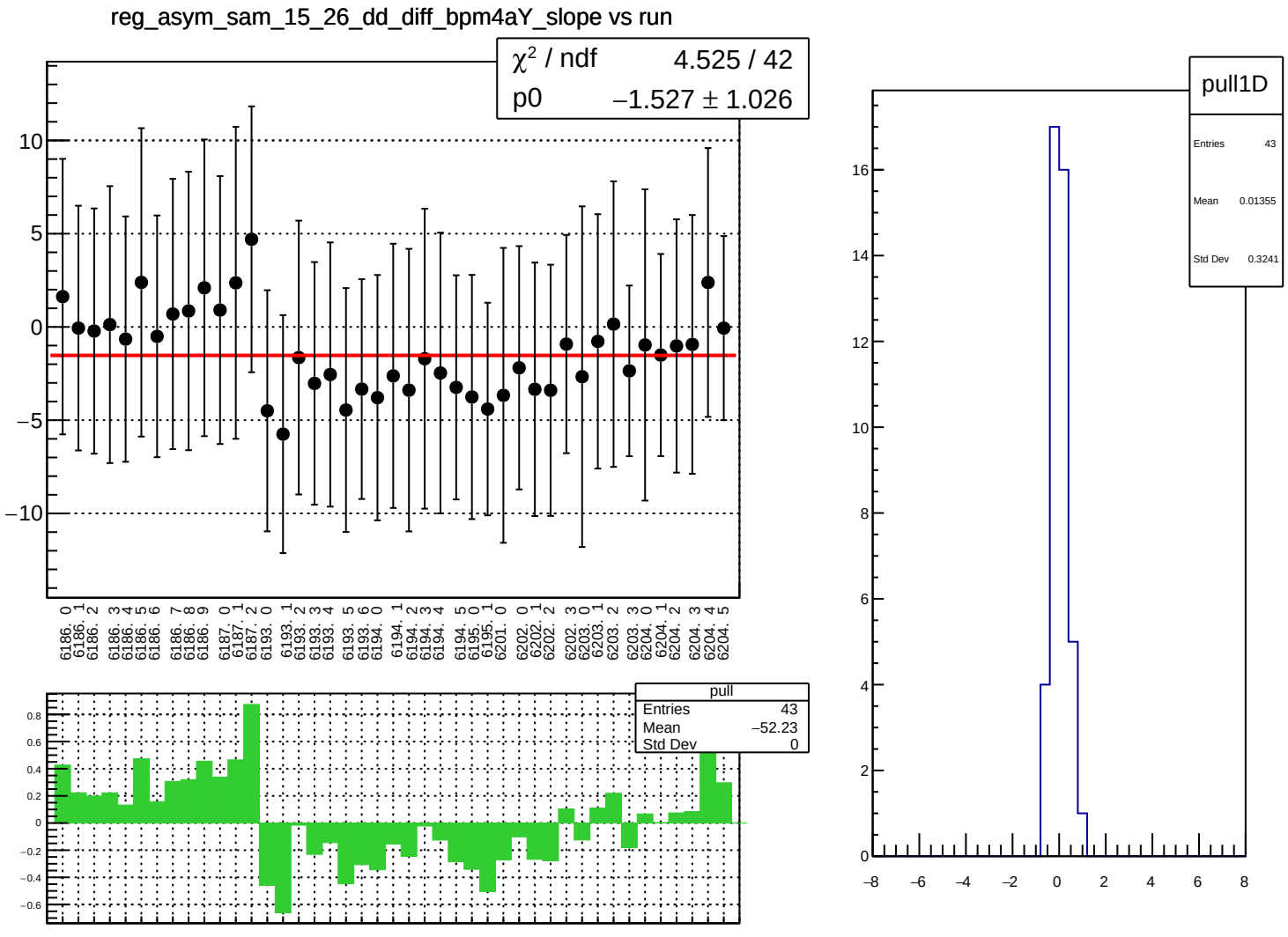

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 74.8 / 42
p0 6.201 ± 0.627
pull
Entries 43
Mean −131.9
Std Dev 0
pull1D
Entries 43
Mean 0.04109
Std Dev 1.318

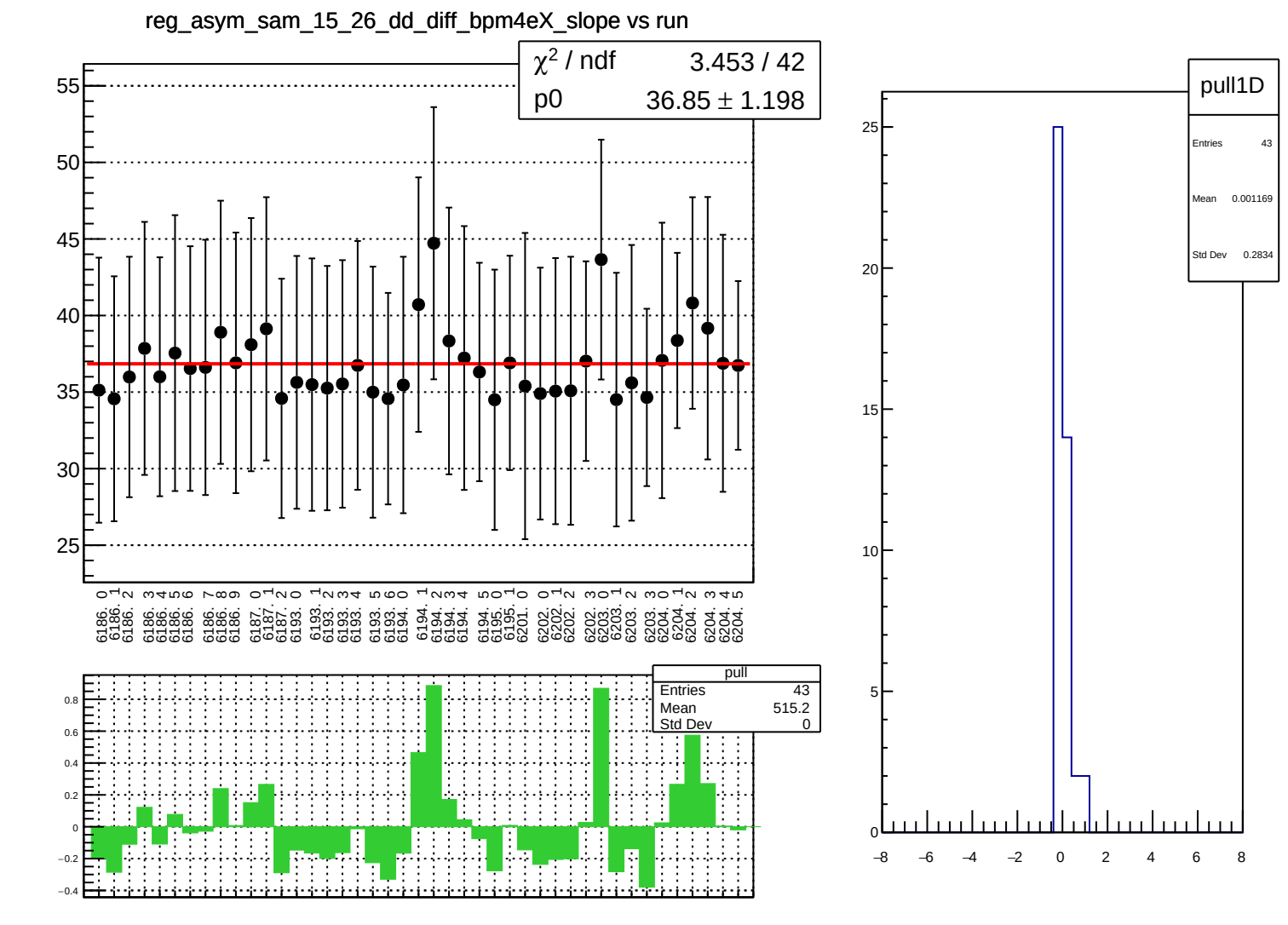

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 130.5 / 42
p0 11.08 ± 0.7255
pull
Entries 43
Mean −54.58
Std Dev 0
pull1D
Entries 43
Mean 0.1415
Std Dev 1.736

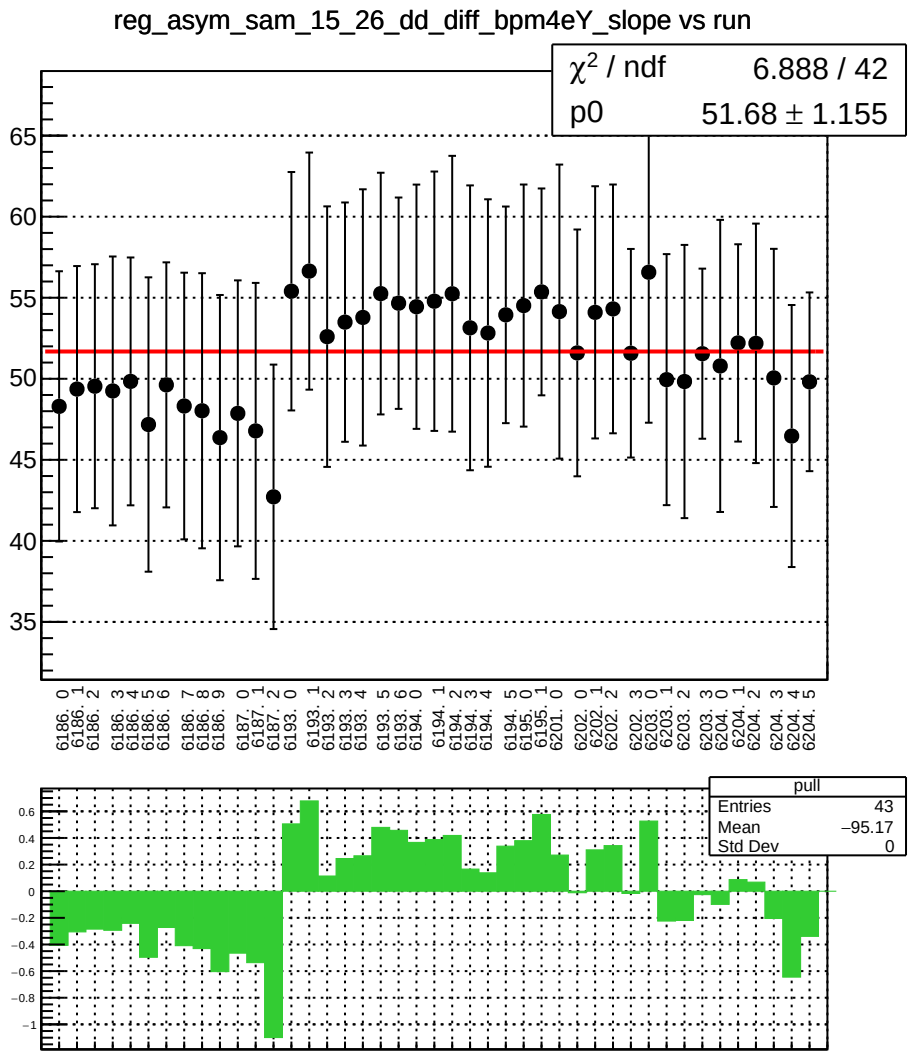

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.43 / 42
p0 −68.91 ± 0.7041
pull
Entries 43
Mean −75.45
Std Dev 0
pull1D
Entries 43
Mean −0.05602
Std Dev 1.297

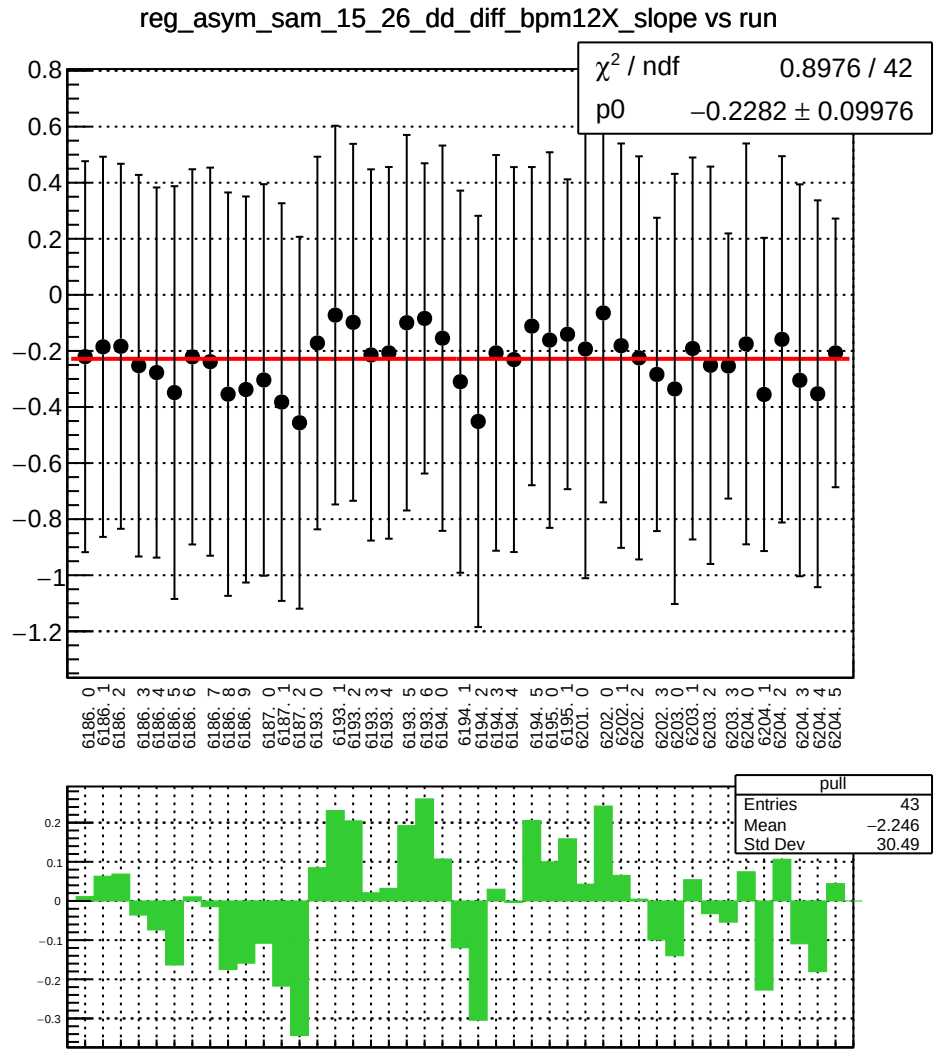

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 55.2 / 42
p0 0.8361± 0.06042
pull
Entries 43
Mean −158.8
Std Dev 0
pull1D
Entries 43
Mean −0.03585
Std Dev 1.132

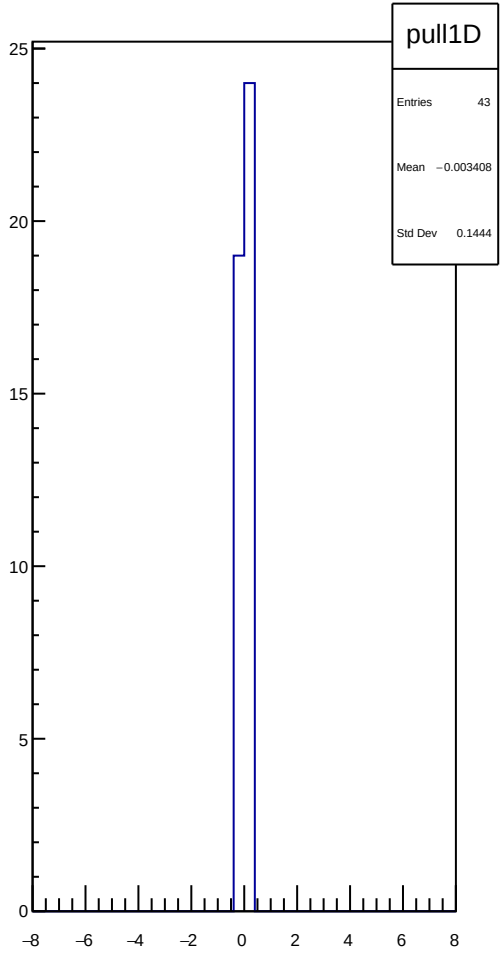

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.801 / 42
p0 −2.62 ± 1.098
10
5
0
−5
−10
−15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −805.3
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 43
Mean 0.0007016
Std Dev 0.2046
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

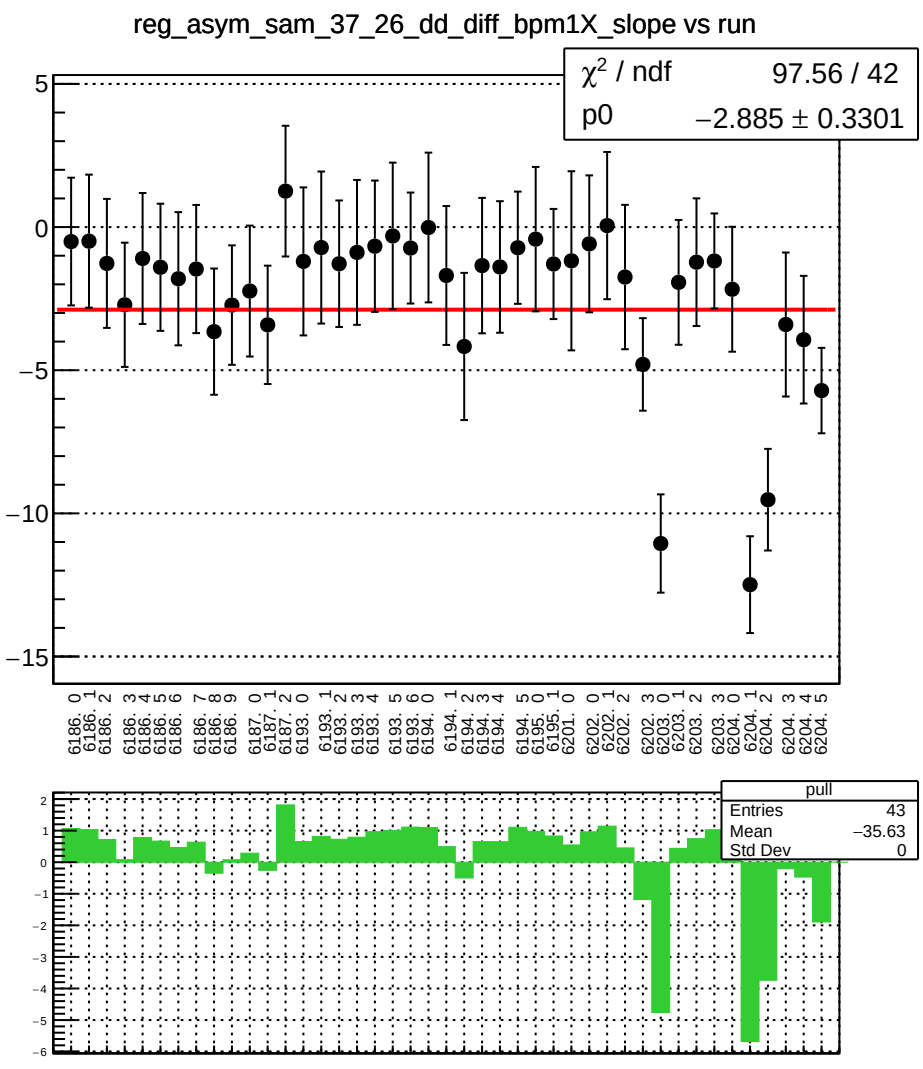

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.525 / 42
p0 −1.527 ± 1.026
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −52.23
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 43
Mean 0.01355
Std Dev 0.3241
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

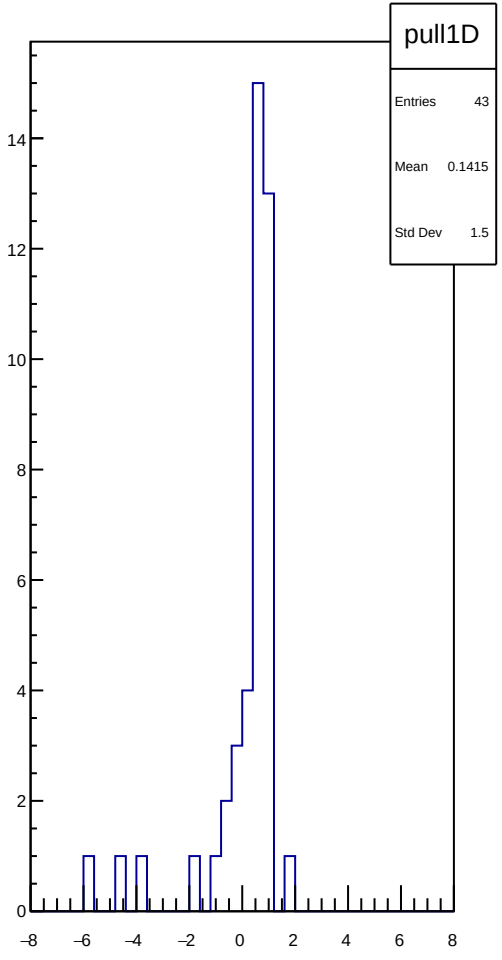

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.453 / 42
p0 36.85 ± 1.198
pull
Entries 43
Mean 515.2
Std Dev 0
pull1D
Entries 43
Mean 0.001169
Std Dev 0.2834

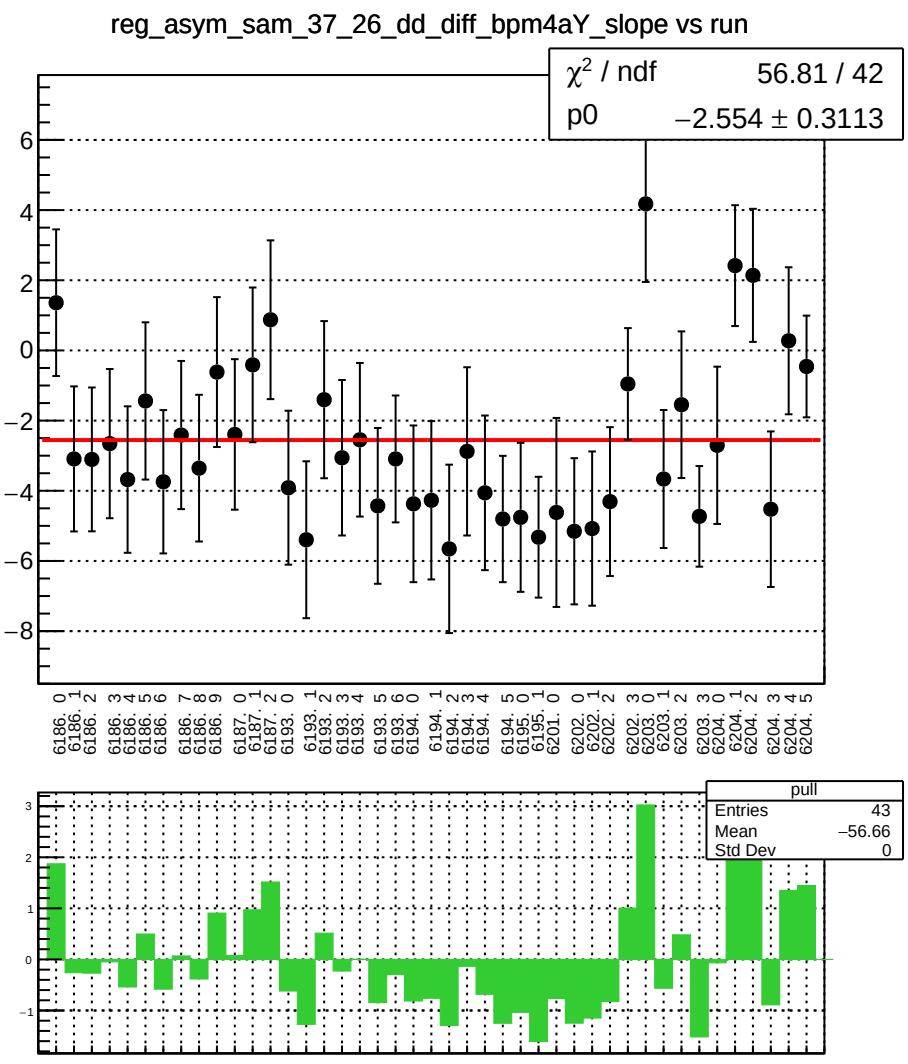

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.888 / 42
p0 51.68 ± 1.155
65
60
55
50
45
40
35
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −95.17
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 43
Mean −0.01172
Std Dev 0.4001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

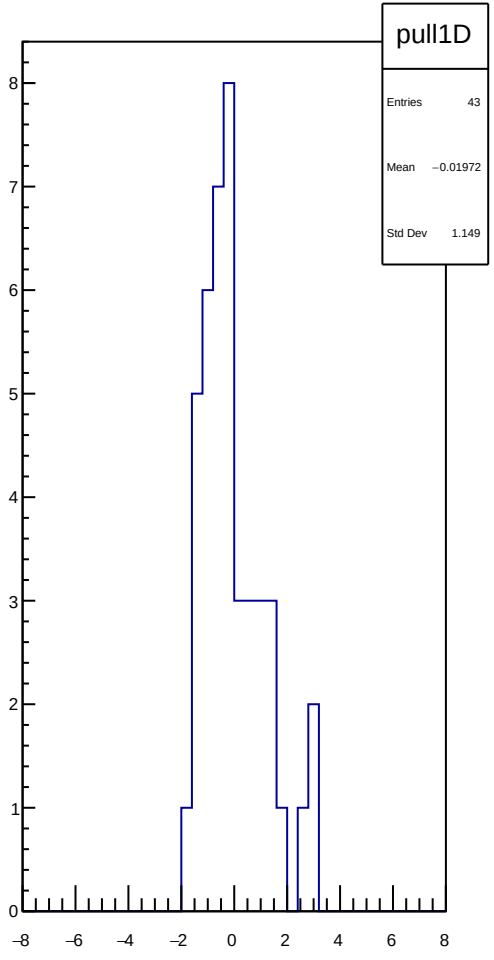

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8976 / 42
p0 −0.2282 ± 0.09976
pull
Entries 43
Mean −2.246
Std Dev 30.49

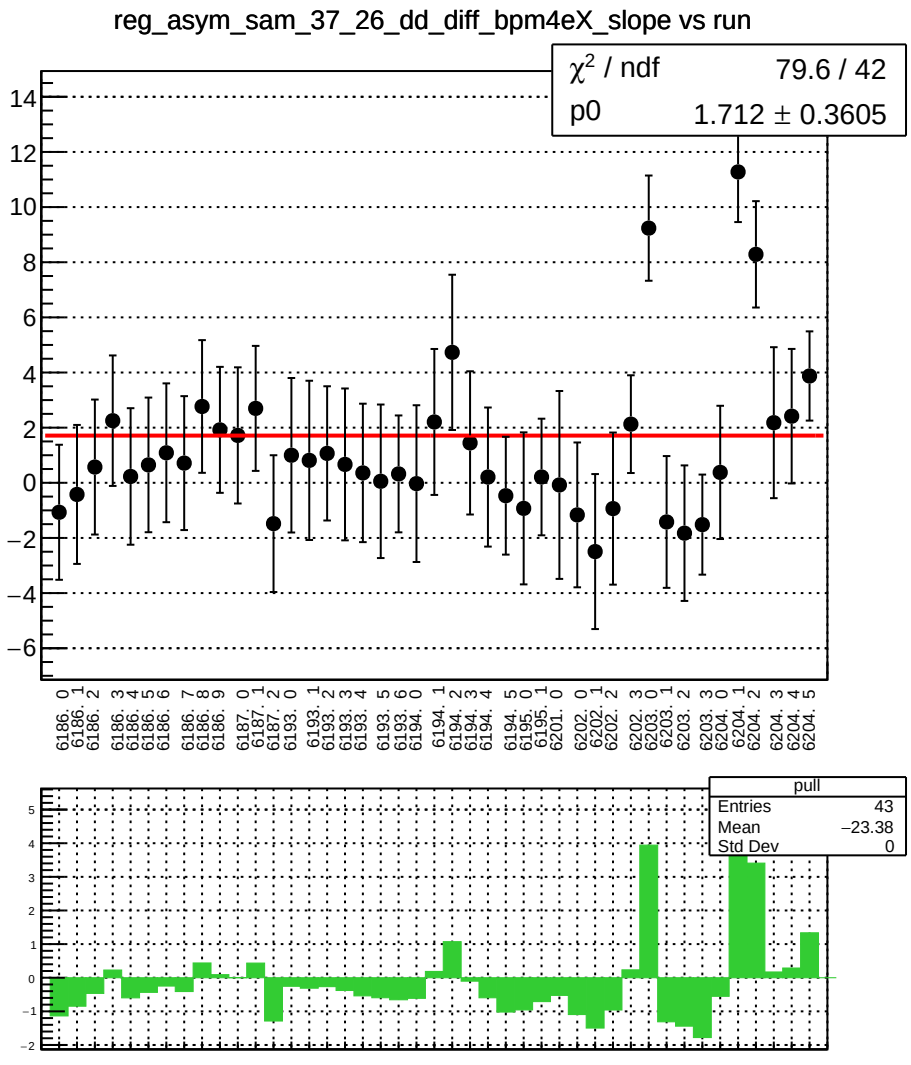

pull1D
Entries 43
Mean −0.003408
Std Dev 0.1444

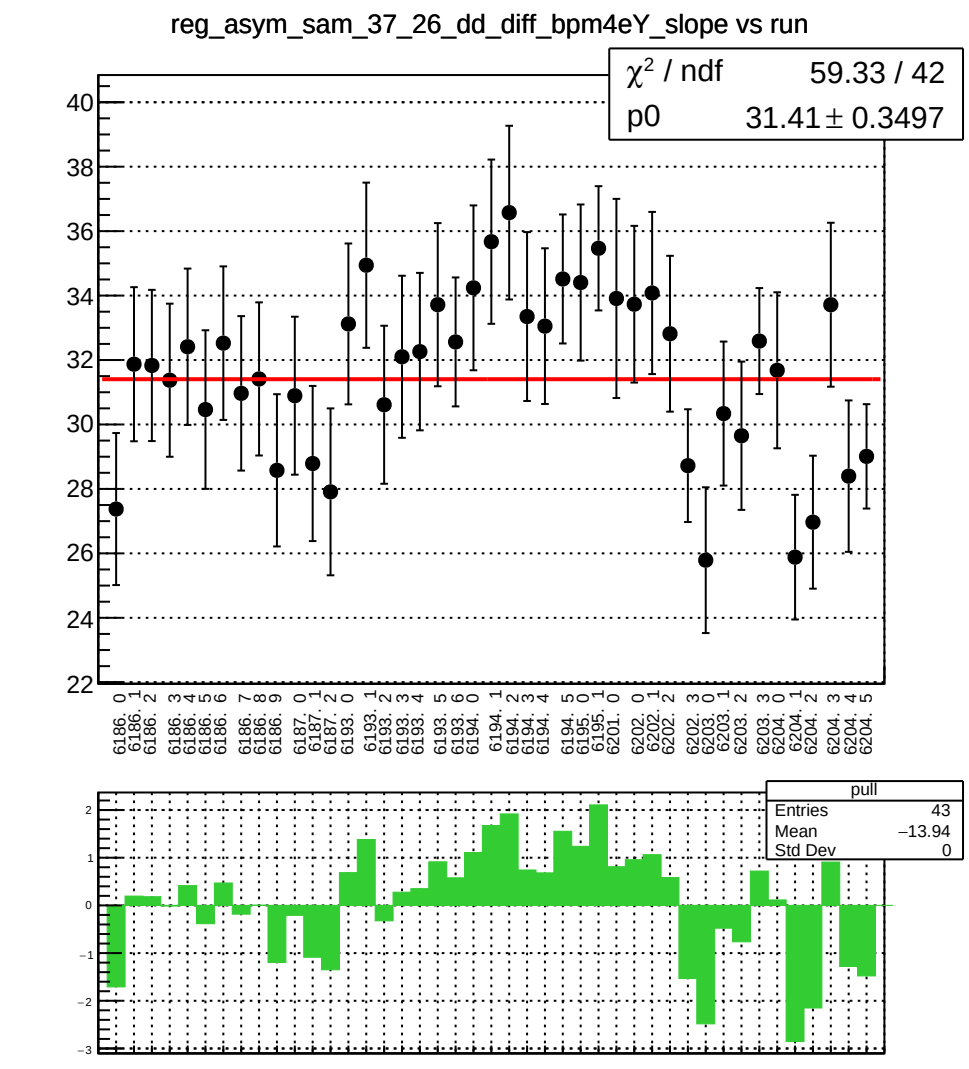

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 97.56 / 42
p0 −2.885 ± 0.3301
pull
Entries 43
Mean −35.63
Std Dev 0

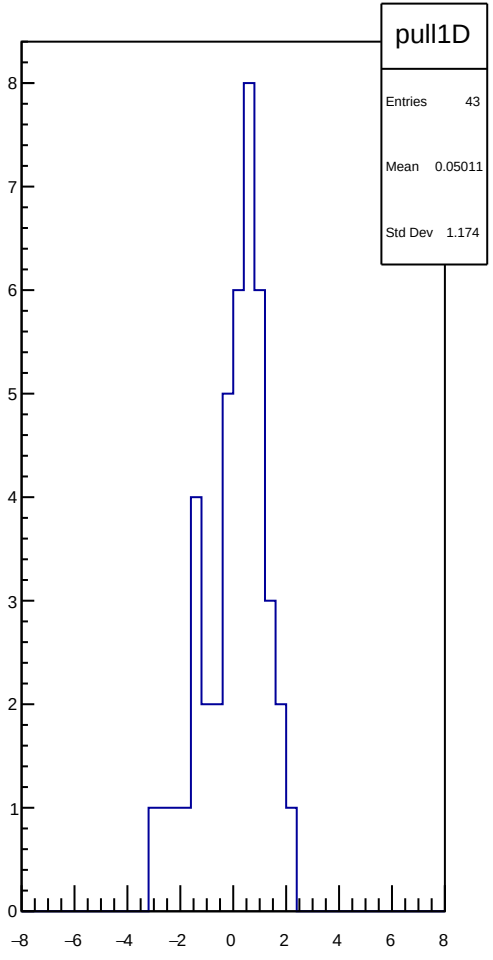

pull1D
Entries 43
Mean 0.1415
Std Dev 1.5

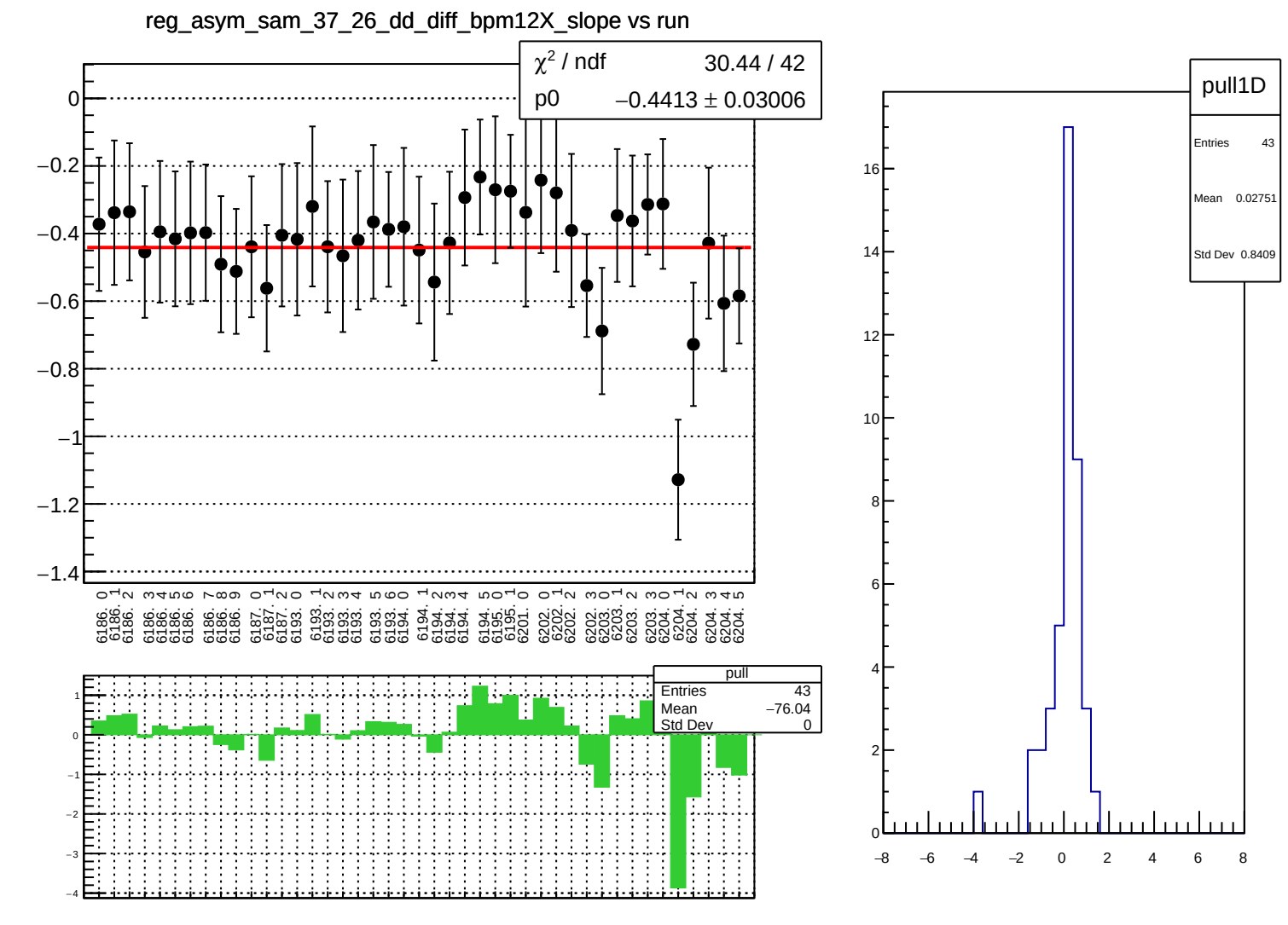

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.81 / 42
p0 −2.554 ± 0.3113
pull
Entries 43
Mean −56.66
Std Dev 0

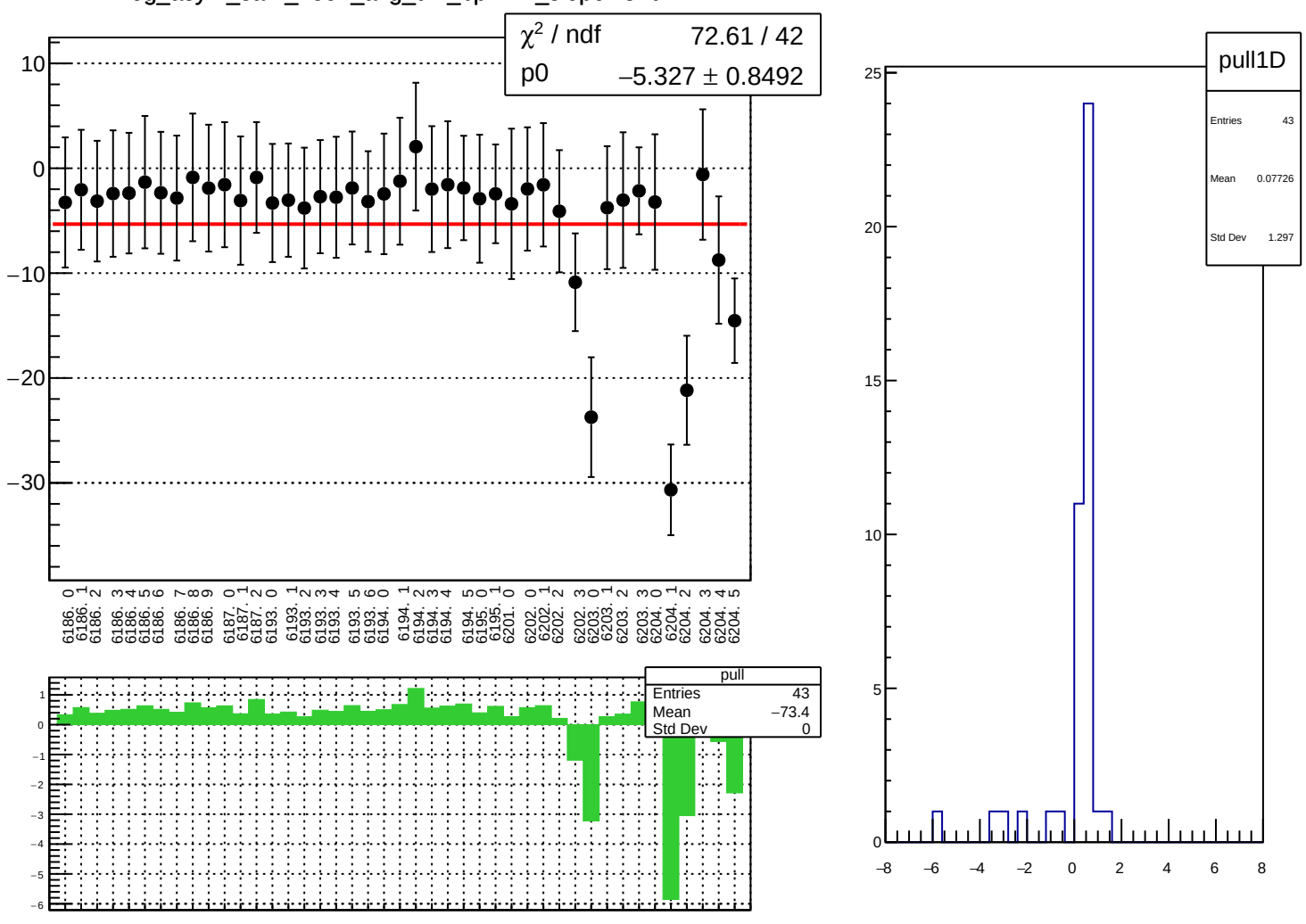

pull1D
Entries 43
Mean −0.01972
Std Dev 1.149

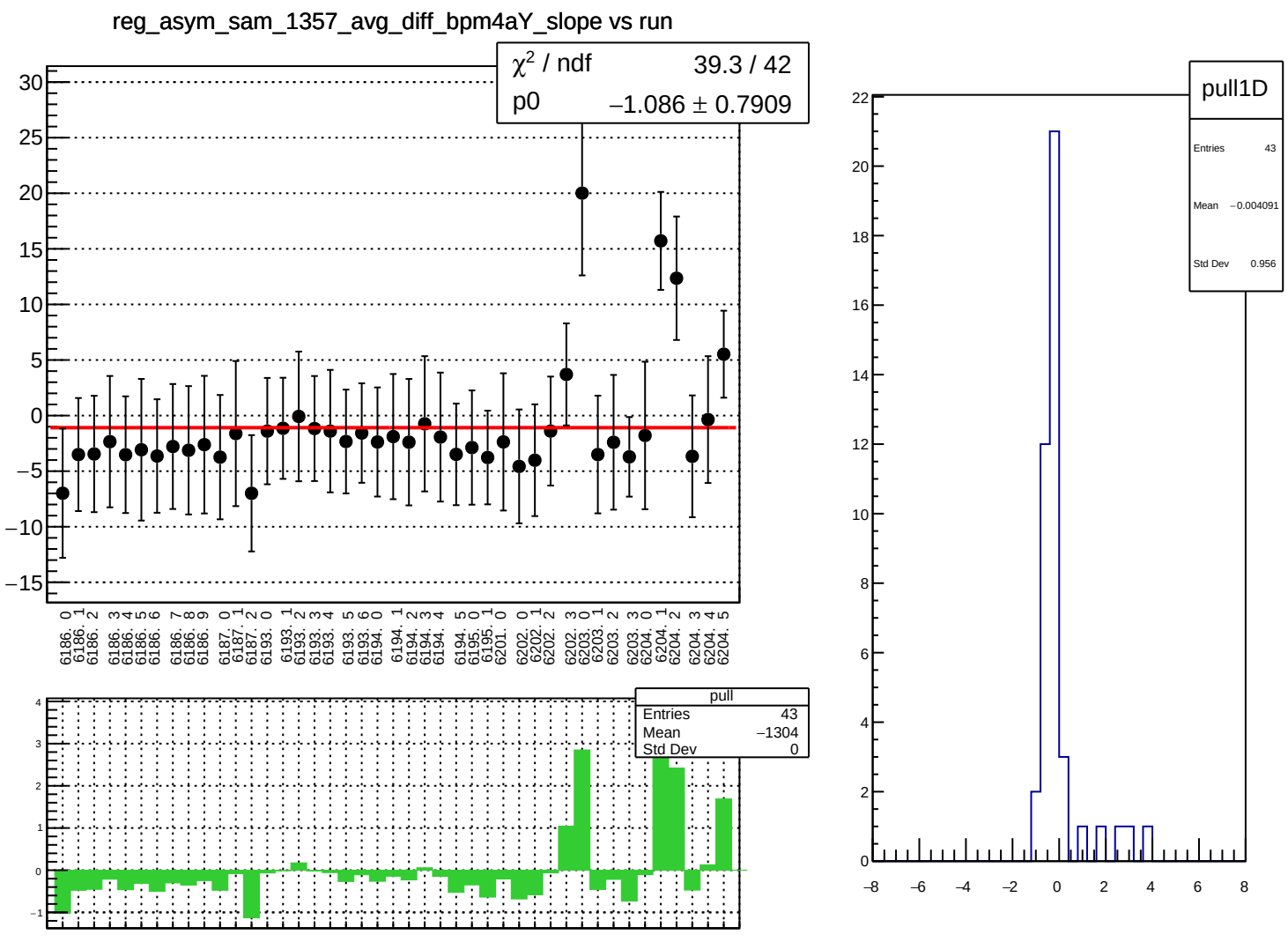

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 79.6 / 42
p0 1.712 ± 0.3605
pull
Entries 43
Mean −23.38
Std Dev 0
pull1D
Entries 43
Mean −0.1044
Std Dev 1.357

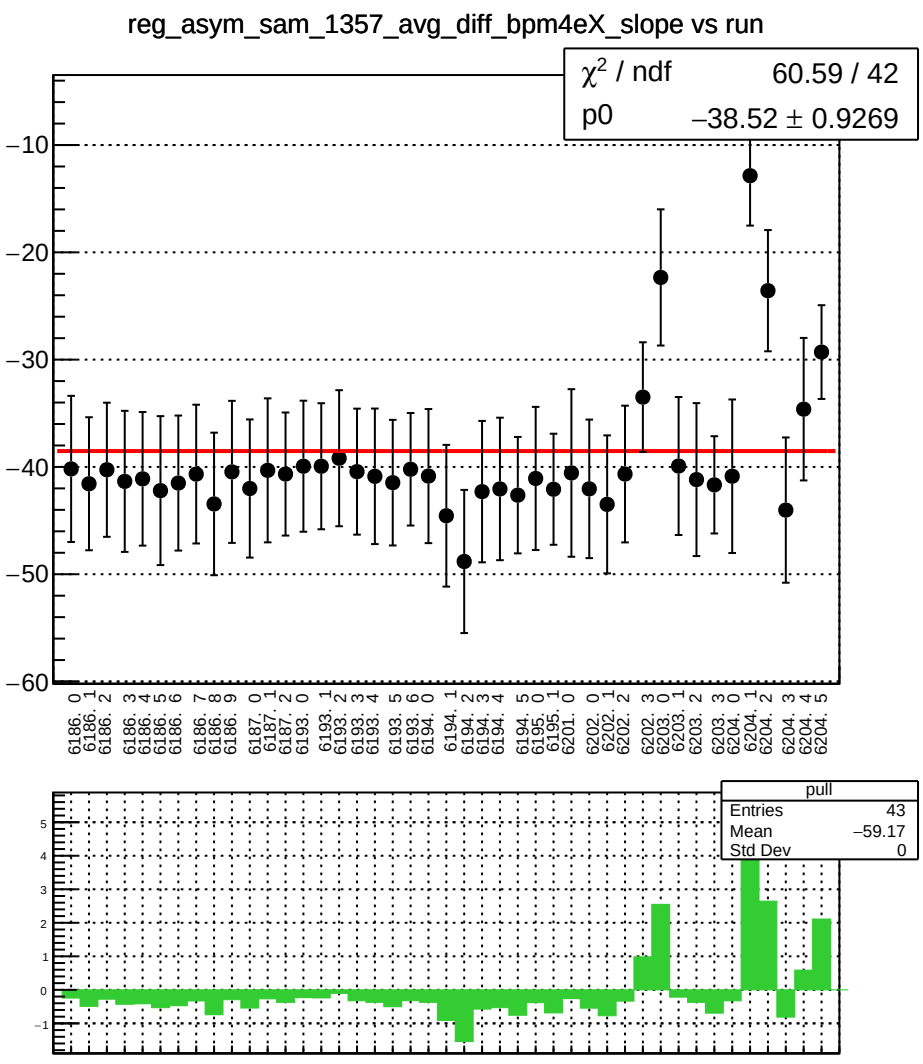

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.33 / 42
p0 31.41 ± 0.3497
pull
Entries 43
Mean −13.94
Std Dev 0

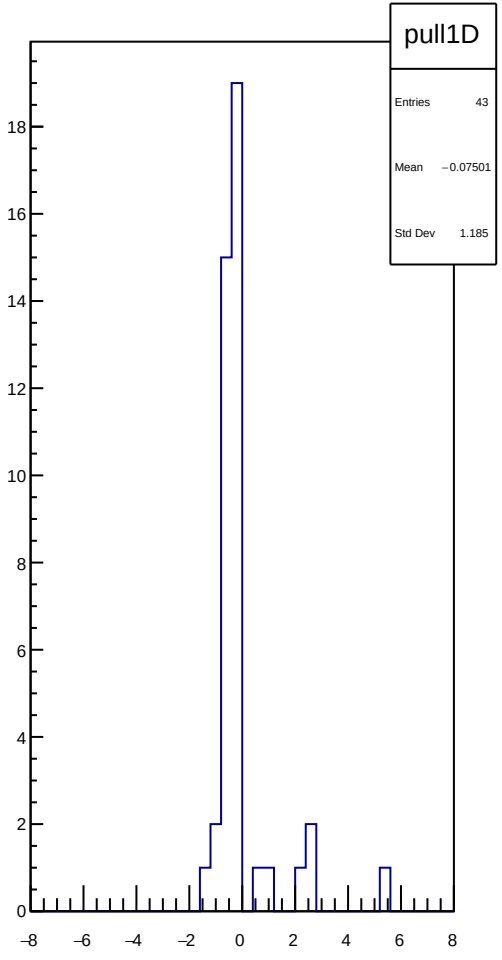

pull1D
Entries 43
Mean 0.05011
Std Dev 1.174

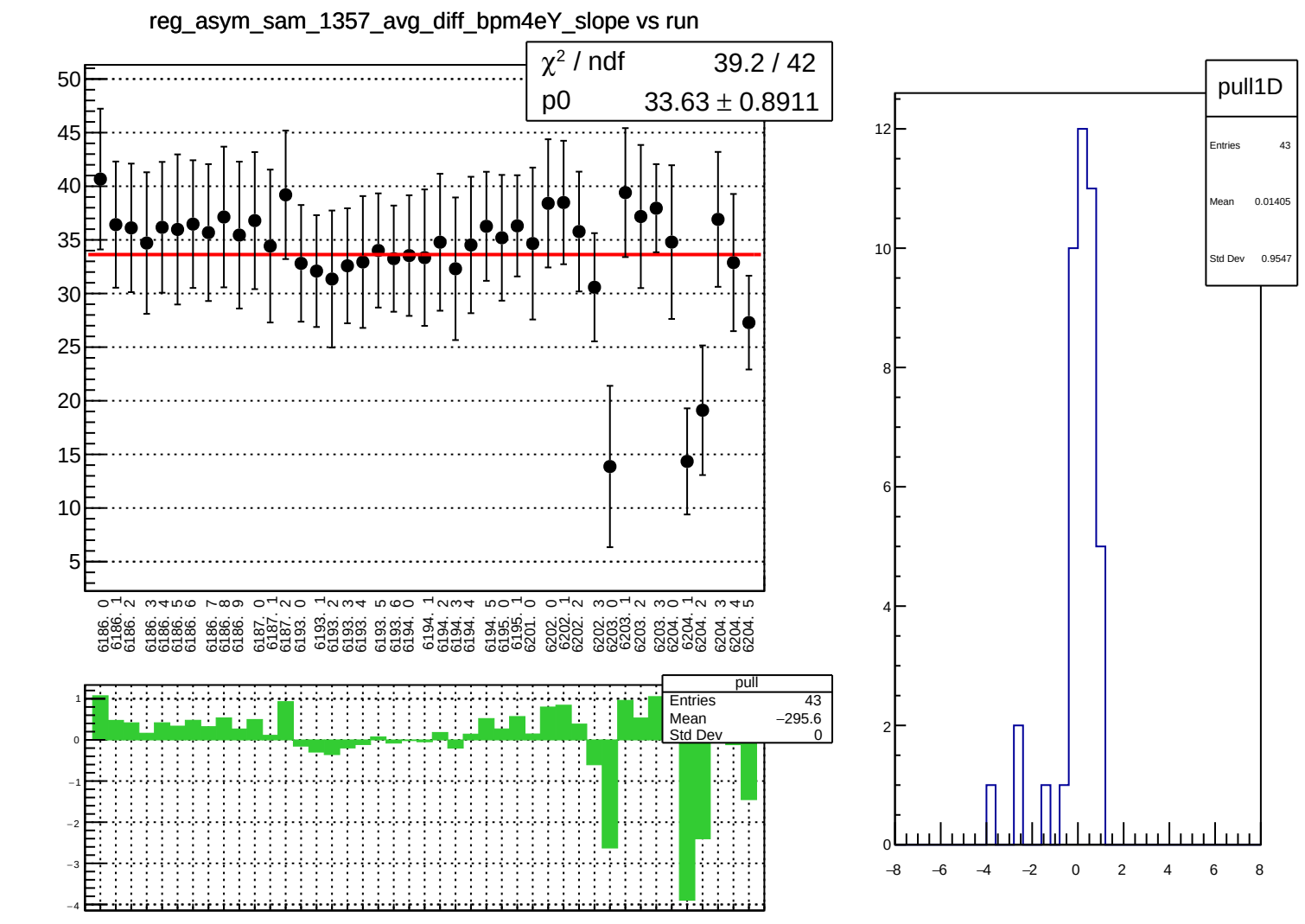

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 30.44 / 42
p0 −0.4413 ± 0.03006
pull
Entries 43
Mean −76.04
Std Dev 0
pull1D
Entries 43
Mean 0.02751
Std Dev 0.8409

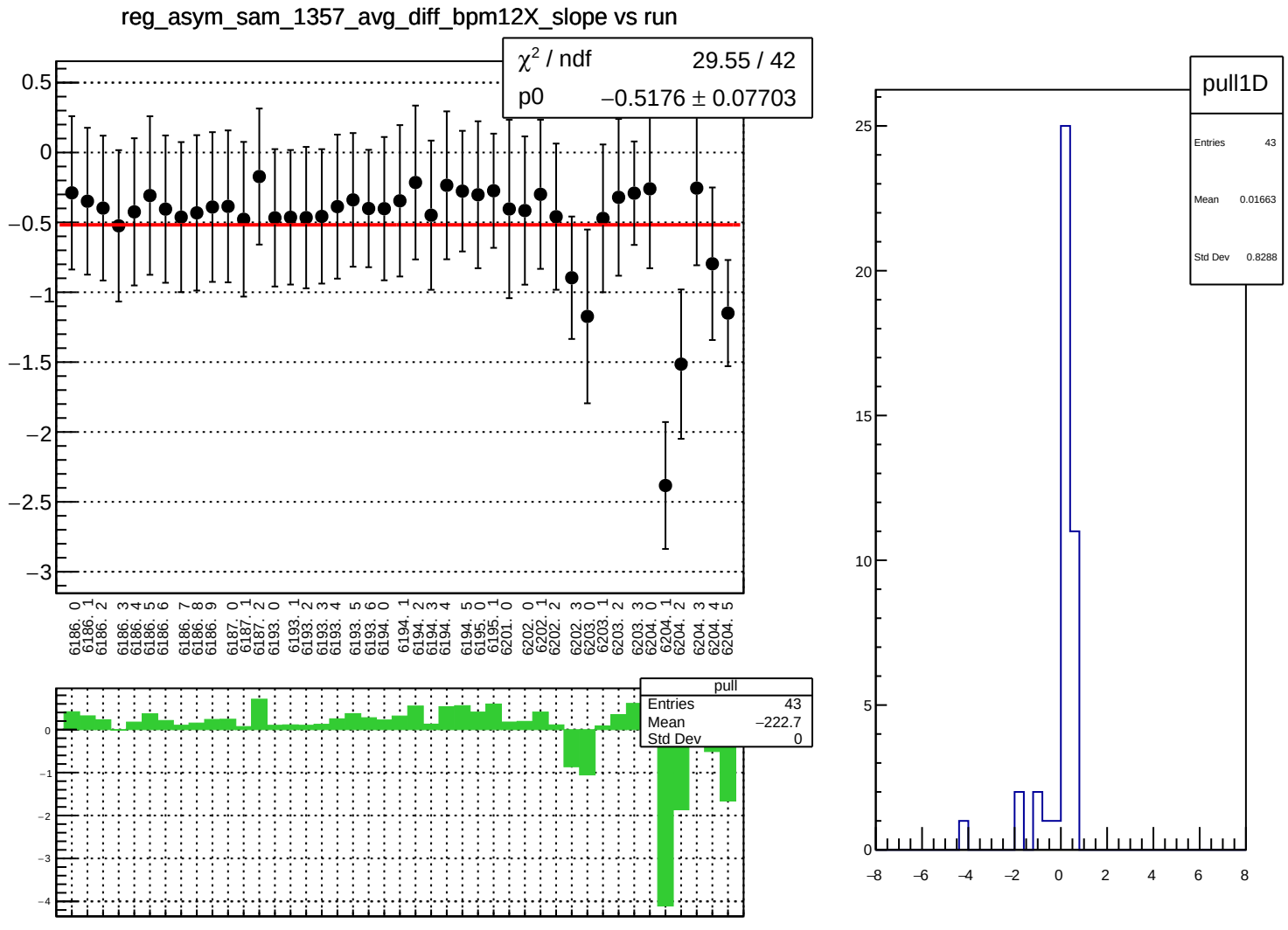

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 72.61 / 42
p0 −5.327 ± 0.8492
10
0
−10
−20
−30
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −73.4
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 43
Mean 0.07726
Std Dev 1.297
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

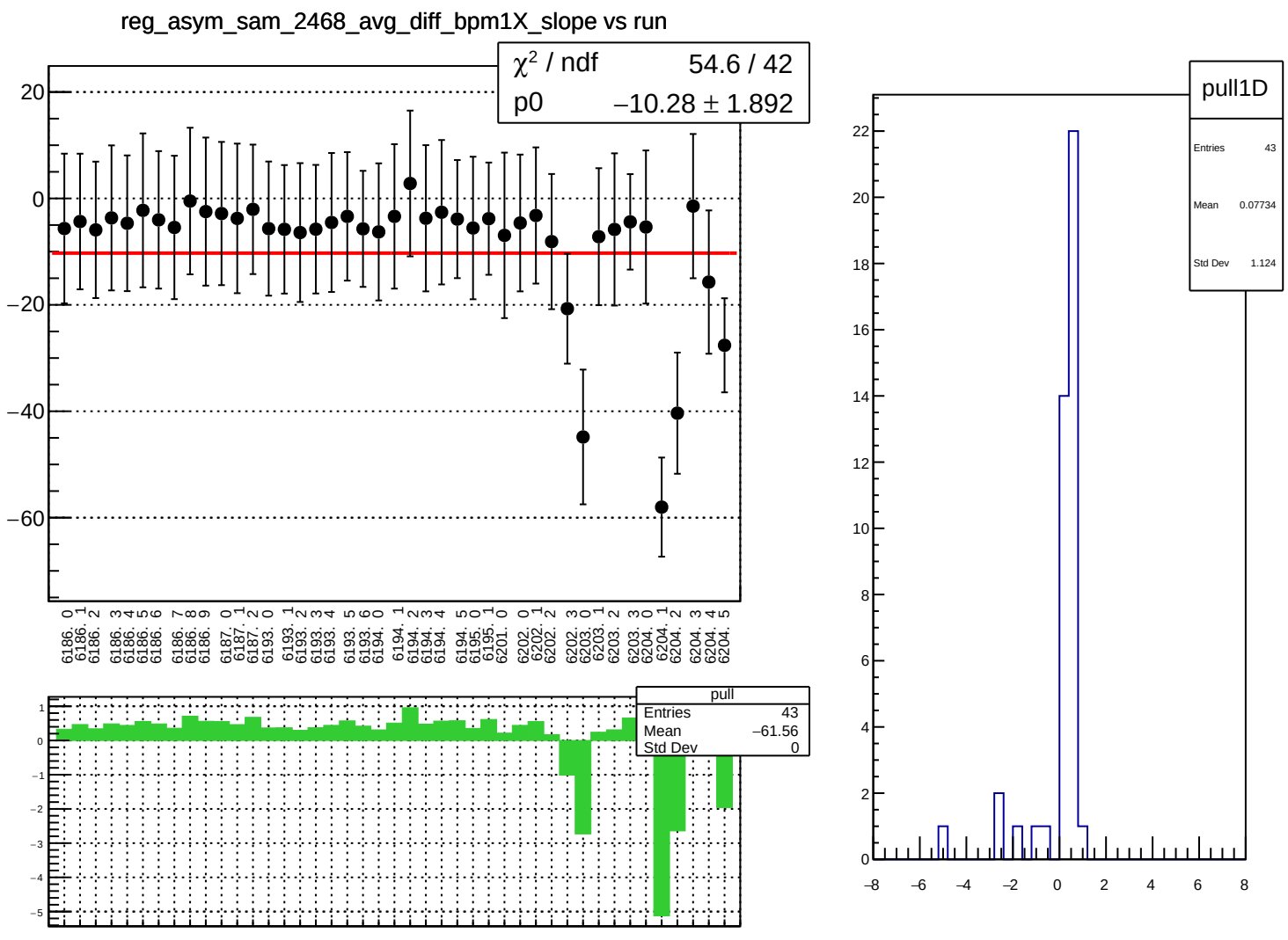

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 39.3 / 42
p0 −1.086 ± 0.7909
pull
Entries 43
Mean −1304
Std Dev 0
pull1D
Entries 43
Mean −0.004091
Std Dev 0.956

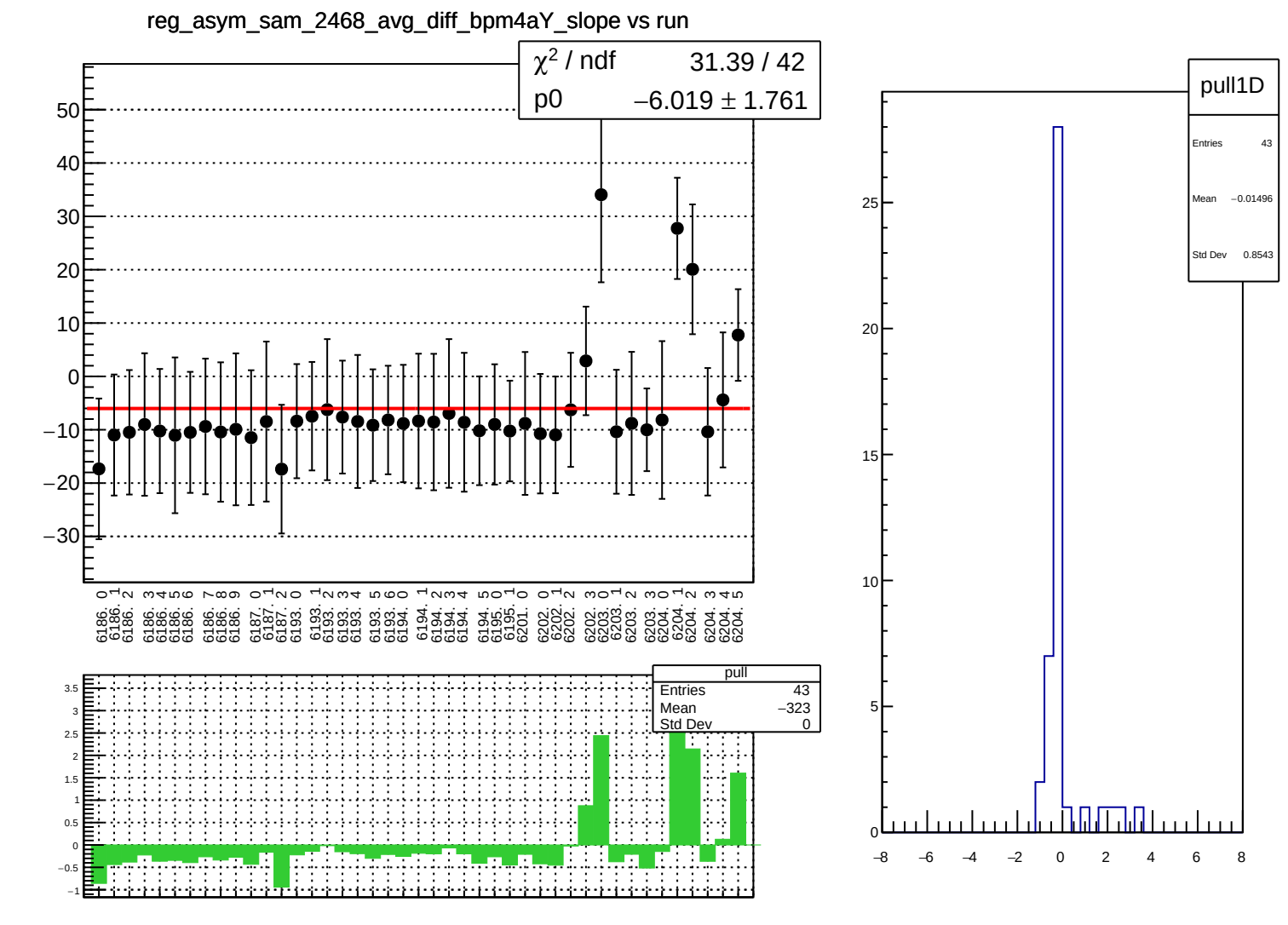

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.59 / 42
p0 −38.52 ± 0.9269
pull
Entries 43
Mean −59.17
Std Dev 0

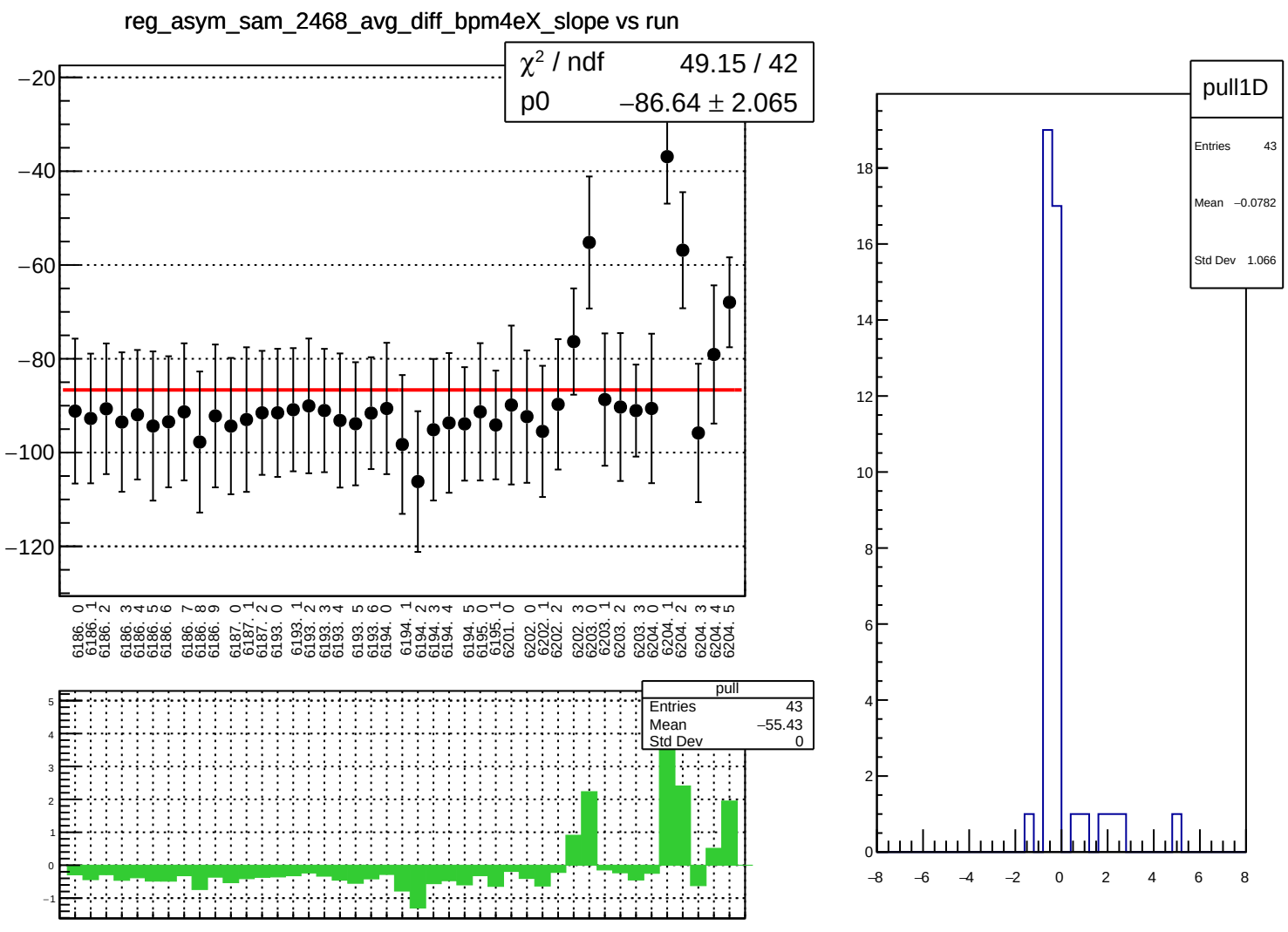

pull1D
Entries 43
Mean −0.07501
Std Dev 1.185

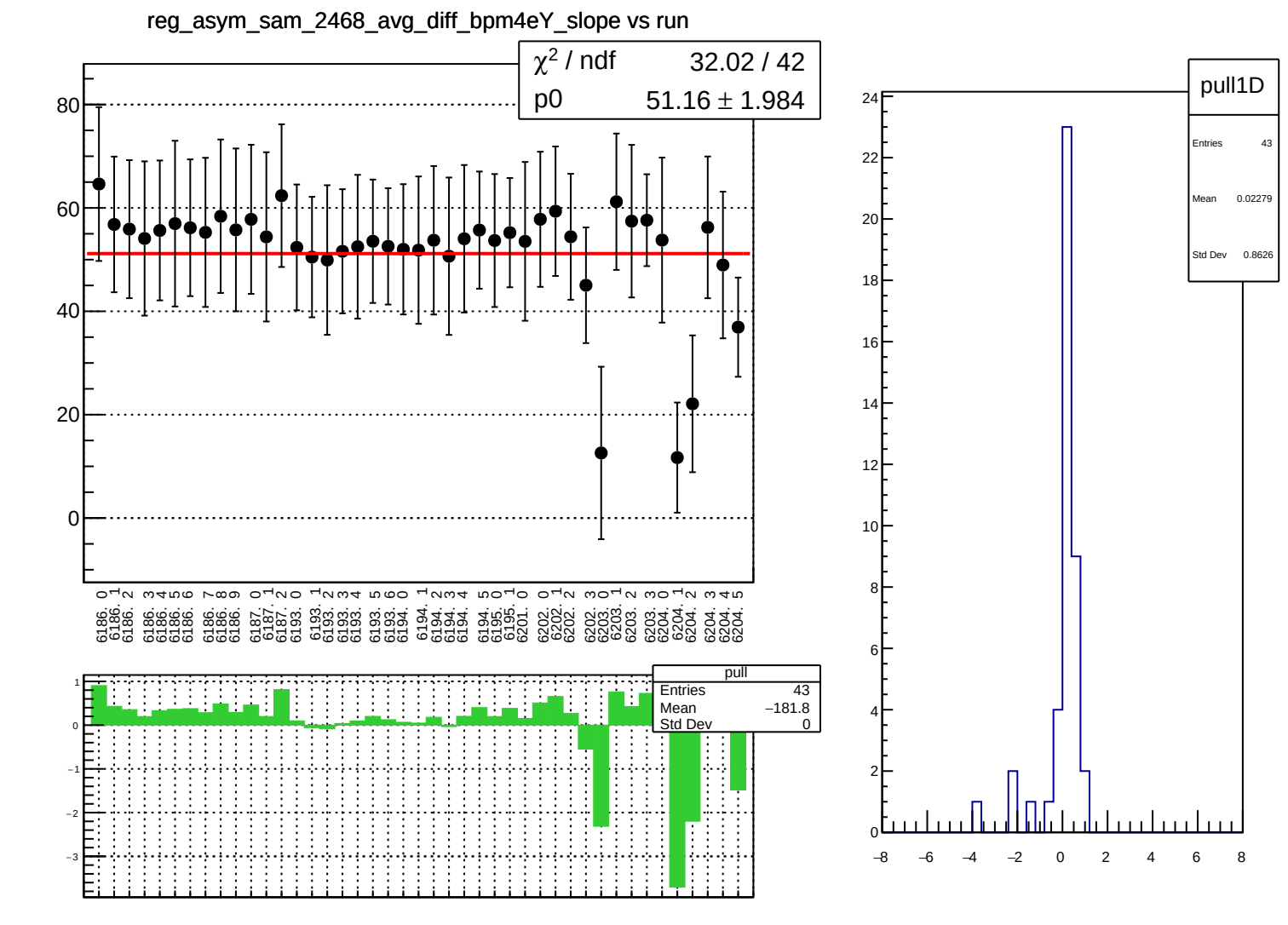

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.2 / 42
p0 33.63 ± 0.8911
pull
Entries 43
Mean −295.6
Std Dev 0
pull1D
Entries 43
Mean 0.01405
Std Dev 0.9547

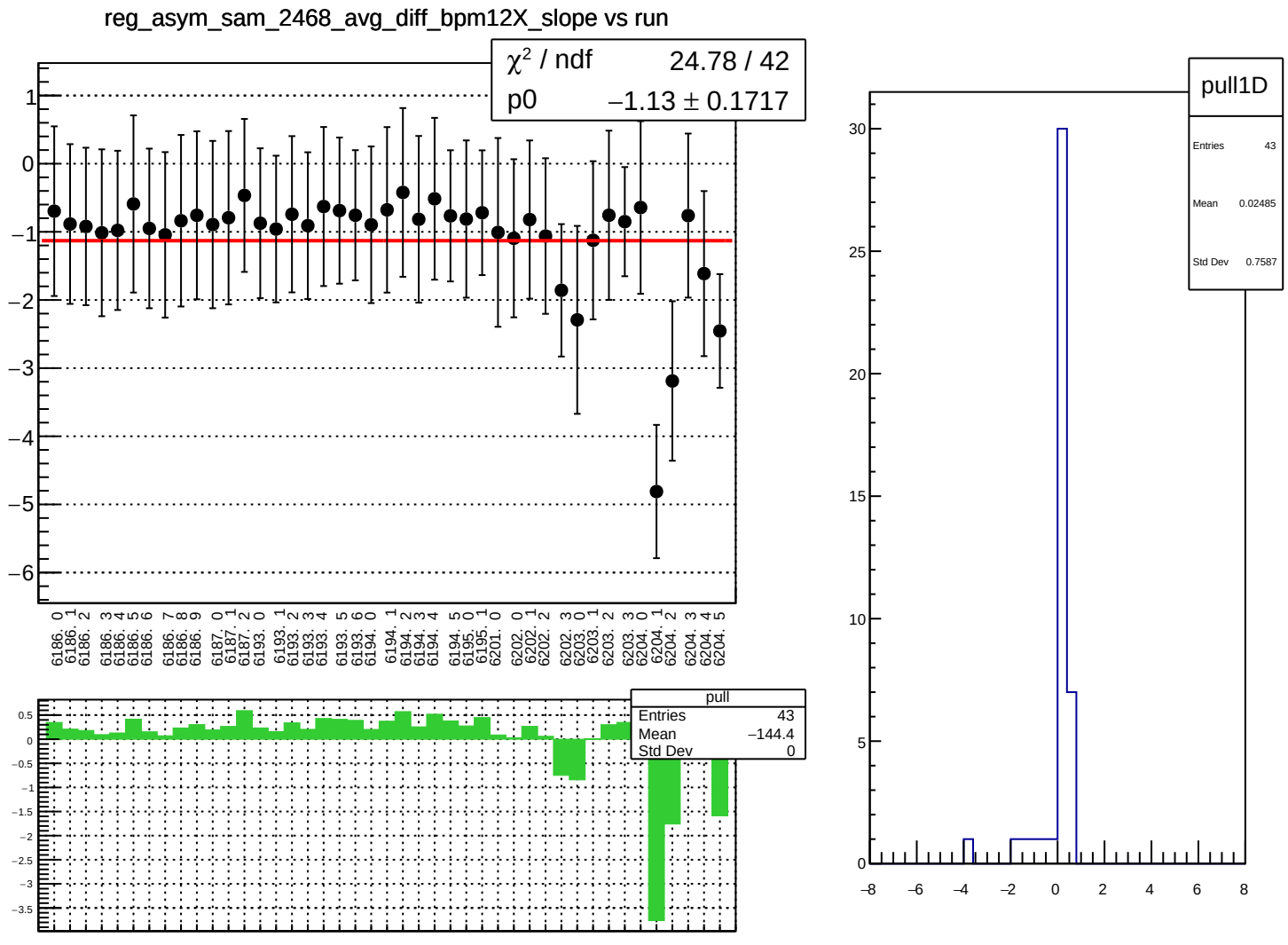

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 29.55 / 42
p0 −0.5176 ± 0.07703
pull
Entries 43
Mean −222.7
Std Dev 0
pull1D
Entries 43
Mean 0.01663
Std Dev 0.8288

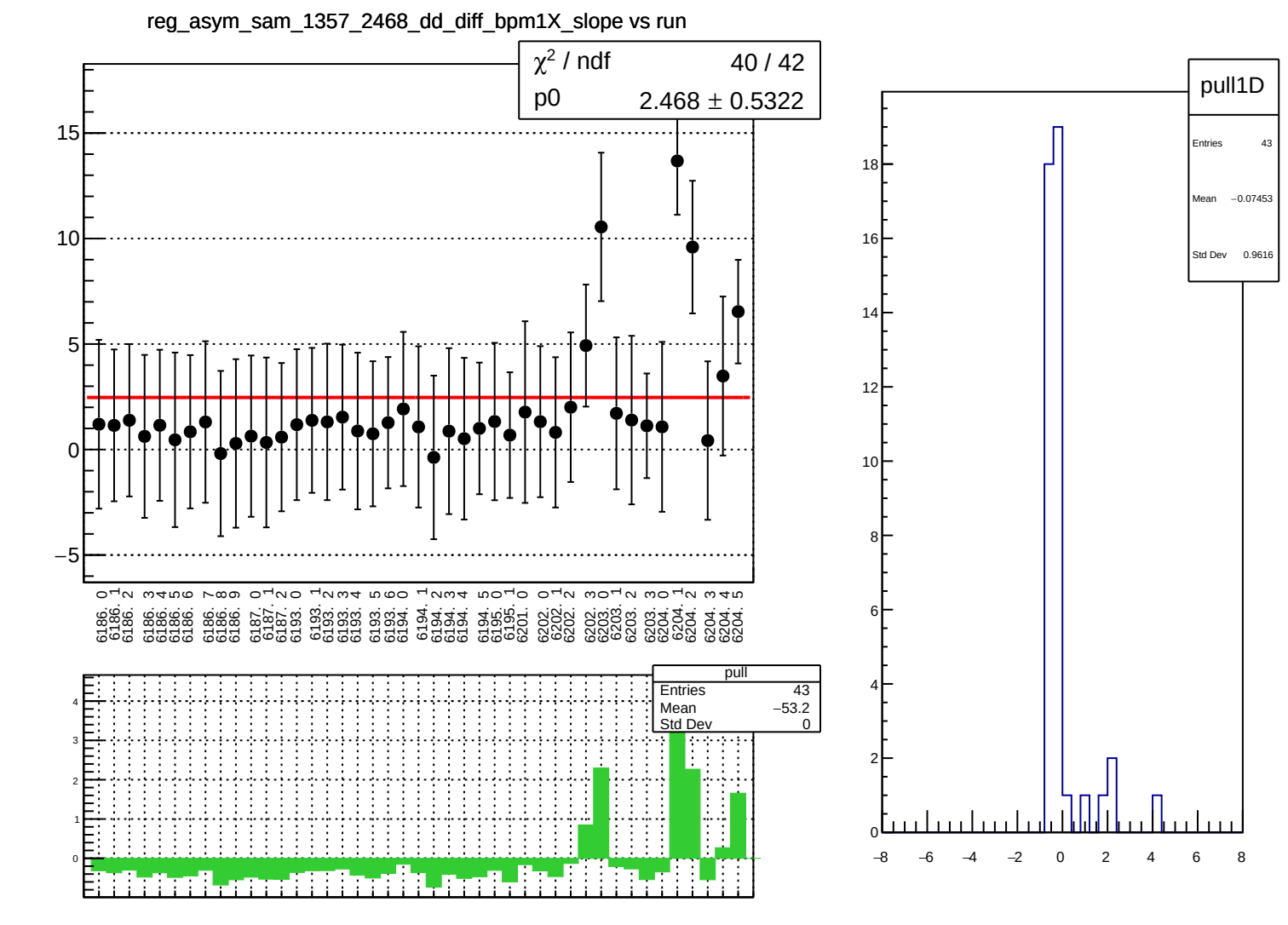

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 54.6 / 42
p0 −10.28 ± 1.892
20
0
−20
−40
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −61.56
Std Dev 0
1
0
−1
−2
−3
−4
−5
pull1D
Entries 43
Mean 0.07734
Std Dev 1.124
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

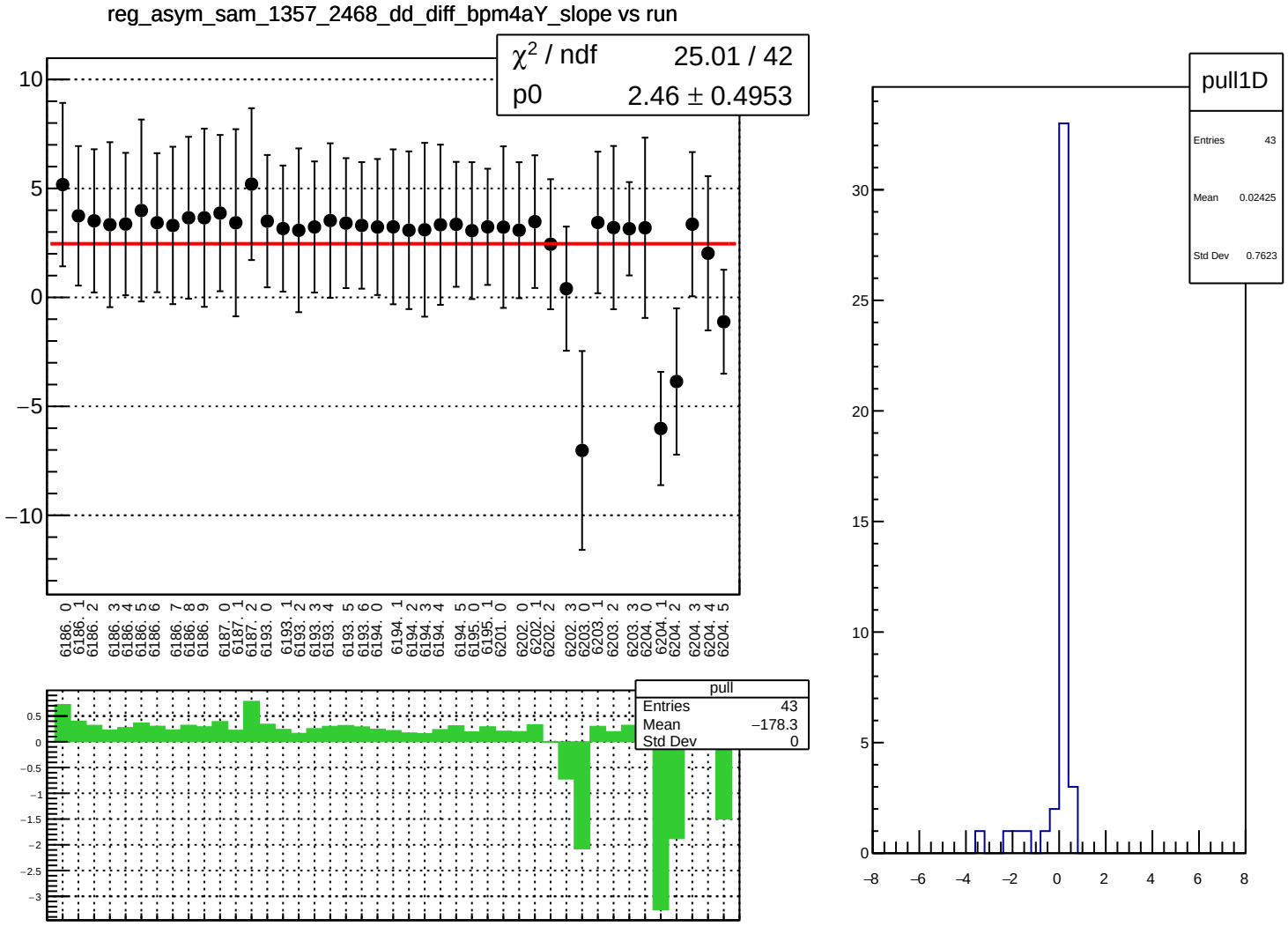

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.39 / 42
p0 −6.019 ± 1.761
pull
Entries 43
Mean −323
Std Dev 0
pull1D
Entries 43
Mean −0.01496
Std Dev 0.8543

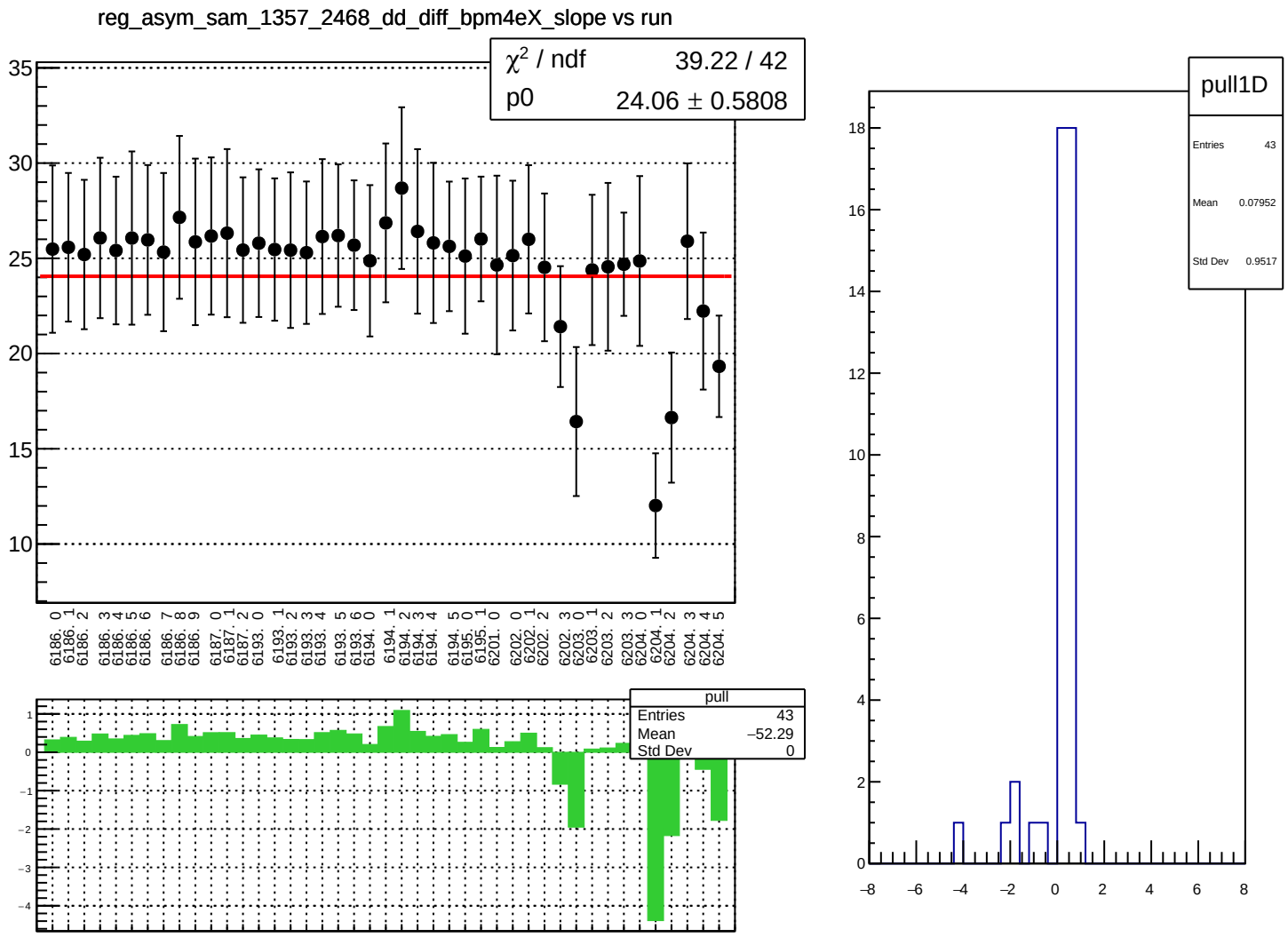

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.15 / 42
p0 −86.64 ± 2.065
−20
−40
−60
−80
−100
−120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −55.43
Std Dev 0
5
4
3
2
1
0
−1
pull1D
Entries 43
Mean −0.0782
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

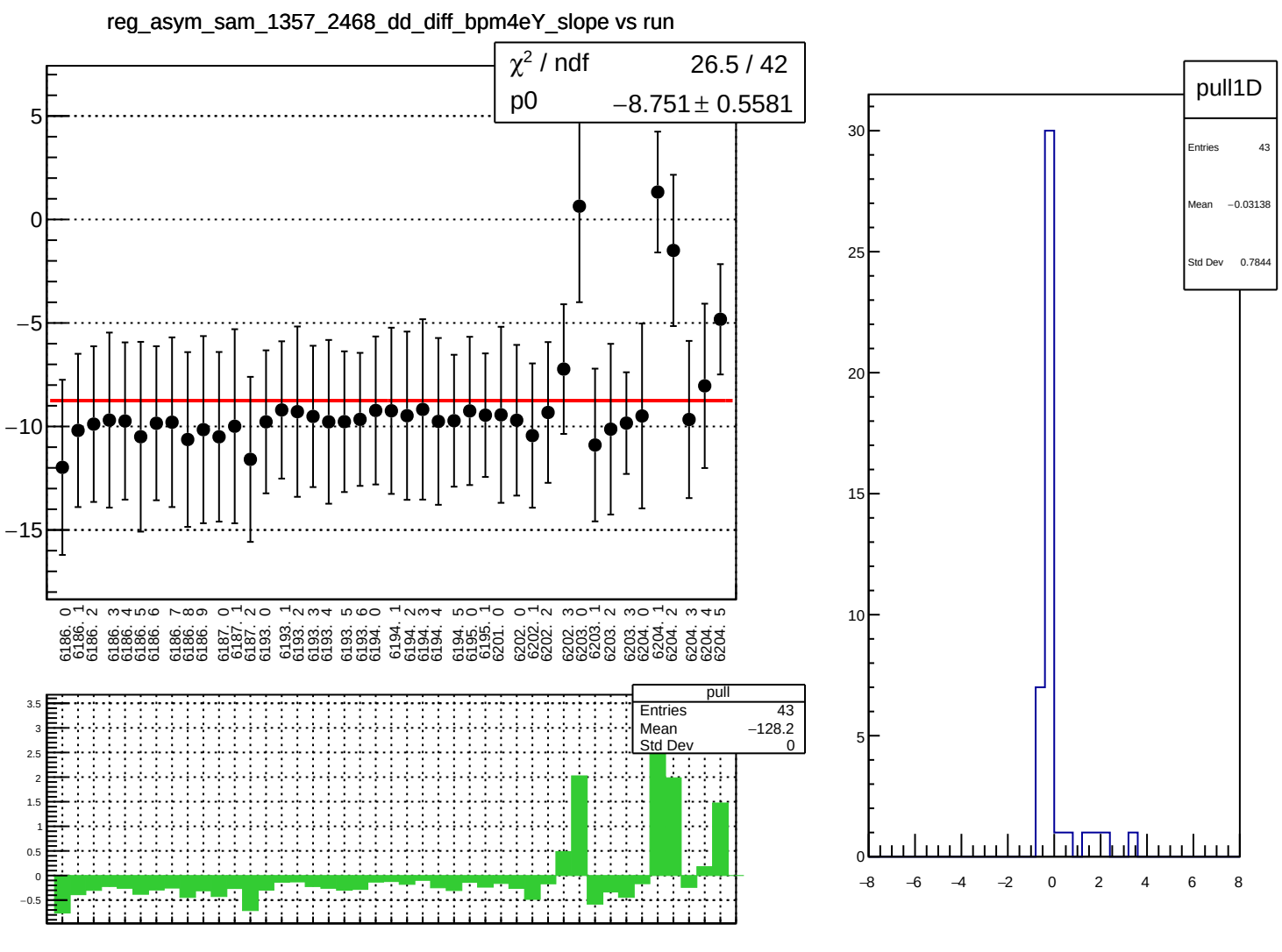

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.02 / 42
p0 51.16 ± 1.984
pull
Entries 43
Mean −181.8
Std Dev 0
pull1D
Entries 43
Mean 0.02279
Std Dev 0.8626

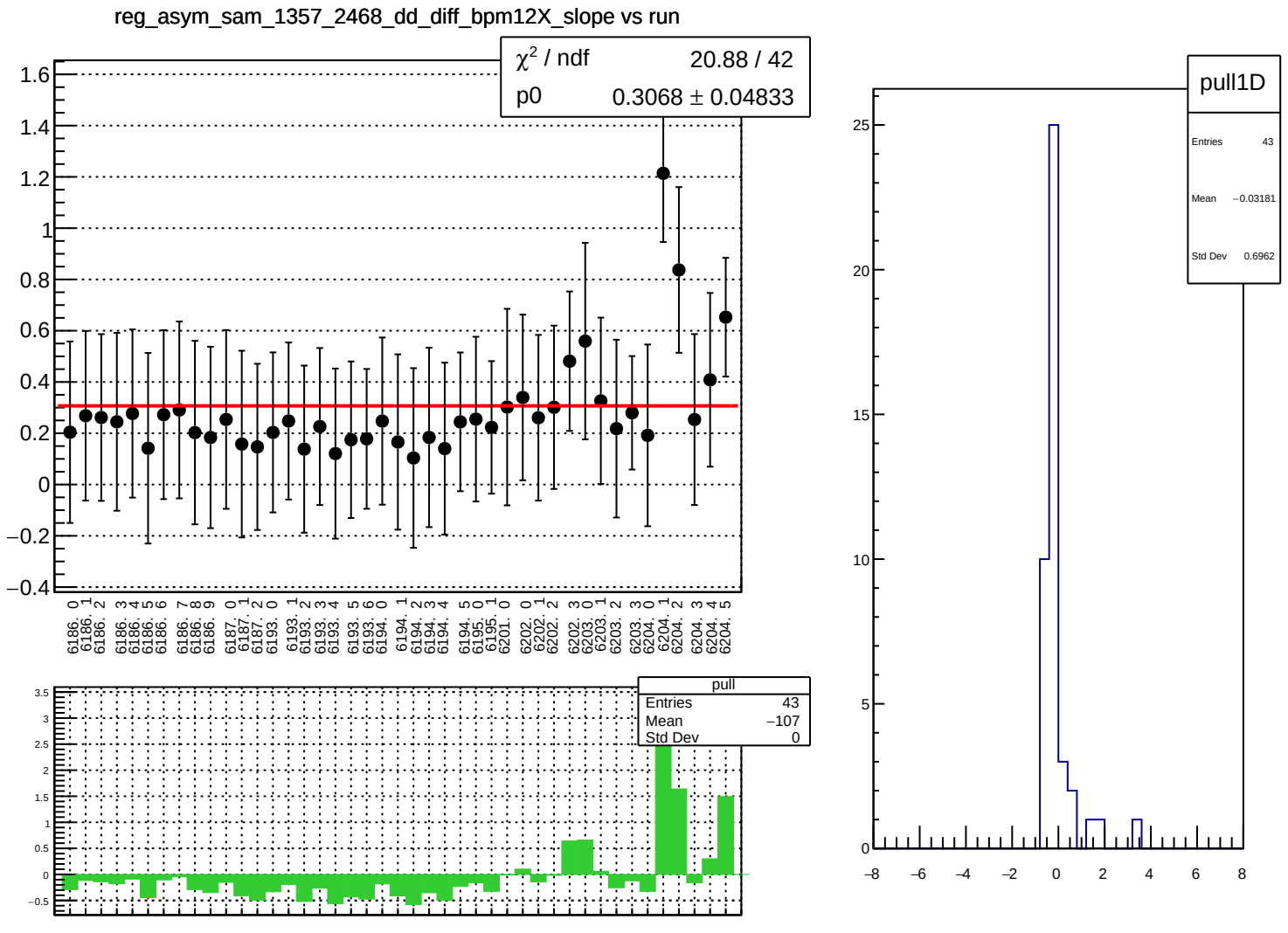

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 24.78 / 42
p0 −1.13 ± 0.1717
pull
Entries 43
Mean −144.4
Std Dev 0
pull1D
Entries 43
Mean 0.02485
Std Dev 0.7587

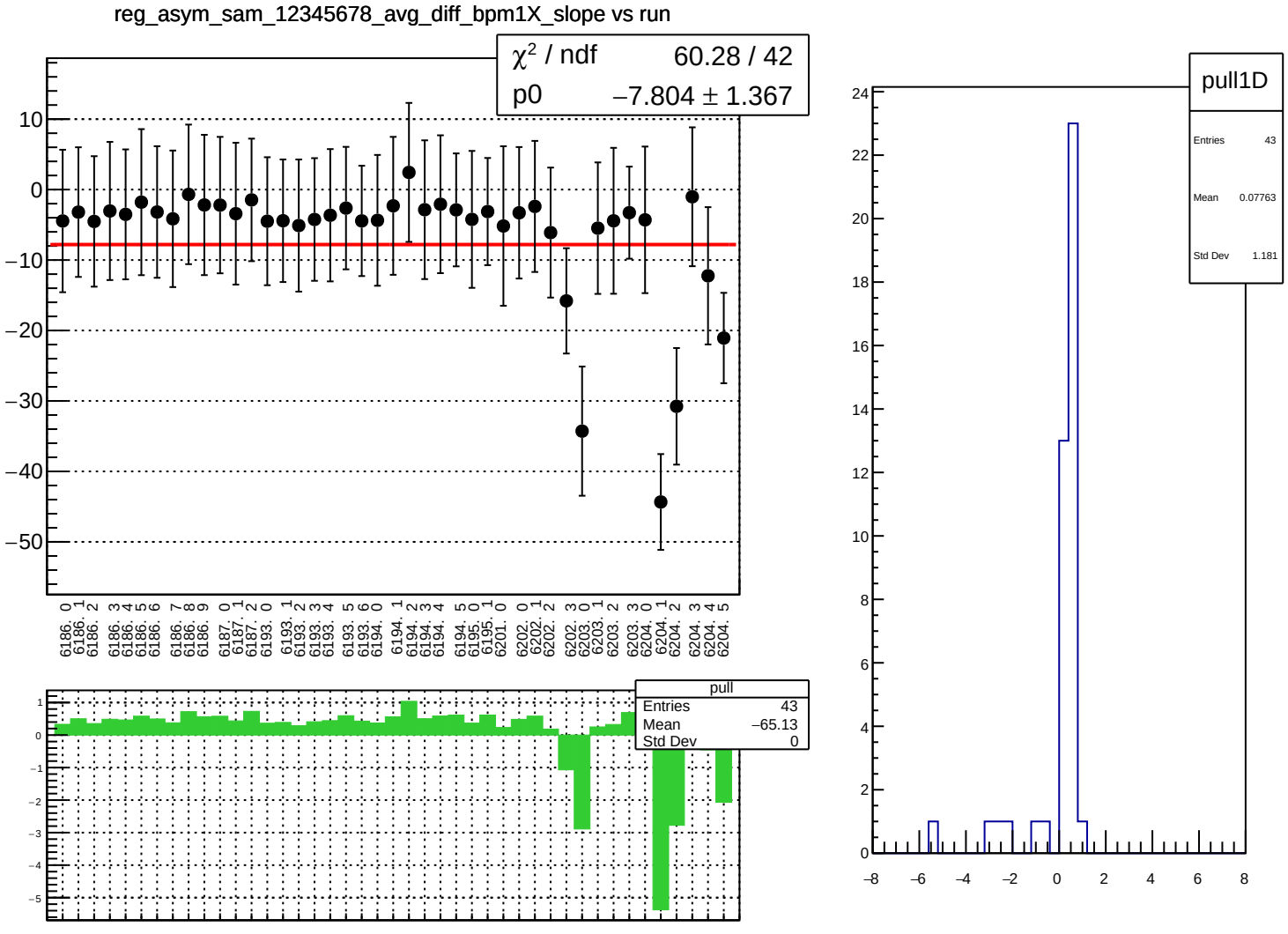

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 40 / 42
p0 2.468 ± 0.5322
15
10
5
0
−5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −53.2
Std Dev 0
4
3
2
1
0
pull1D
Entries 43
Mean −0.07453
Std Dev 0.9616
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

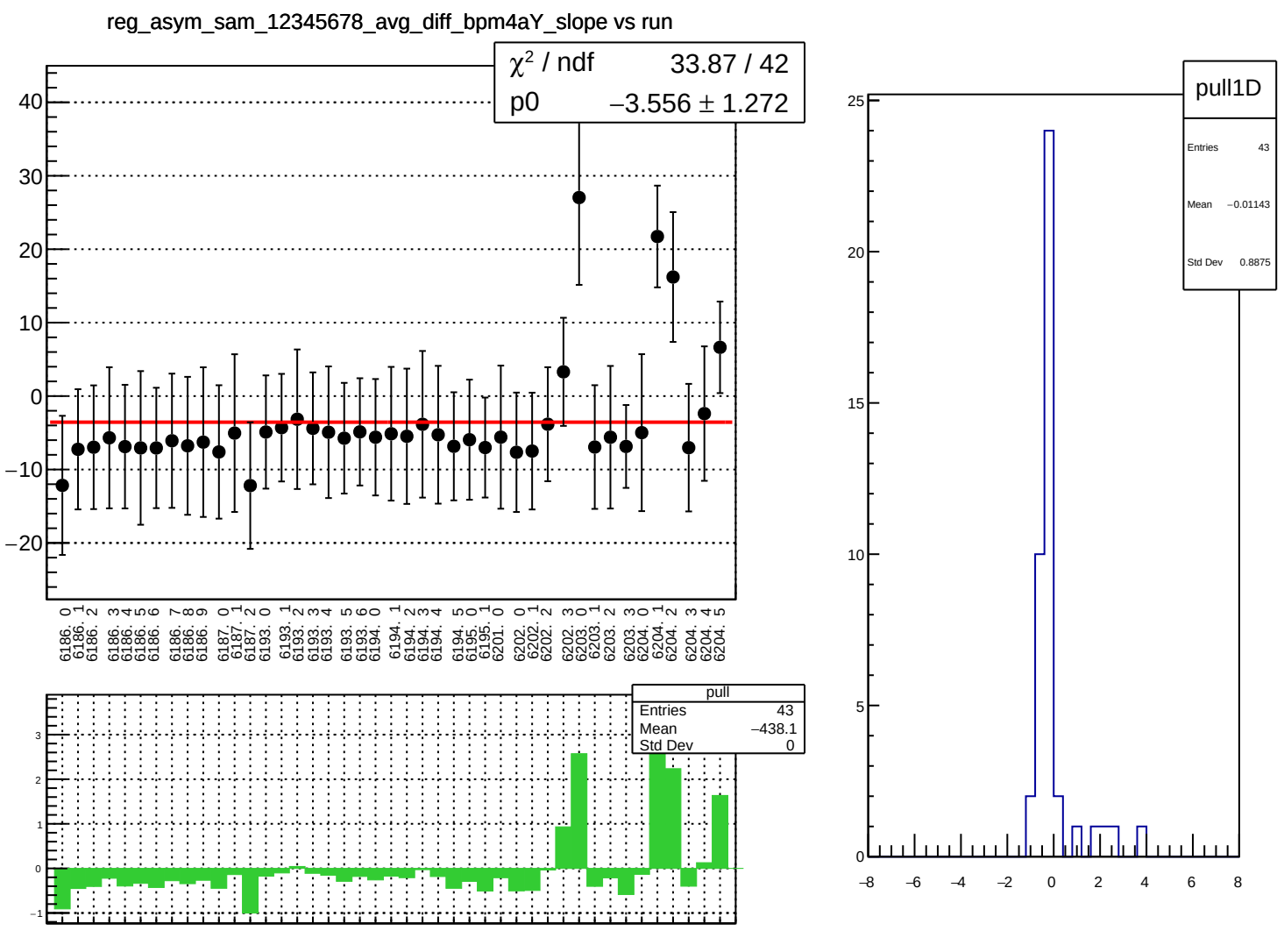

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.01 / 42
p0 2.46 ± 0.4953
10
5
0
−5
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −178.3
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 43
Mean 0.02425
Std Dev 0.7623
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

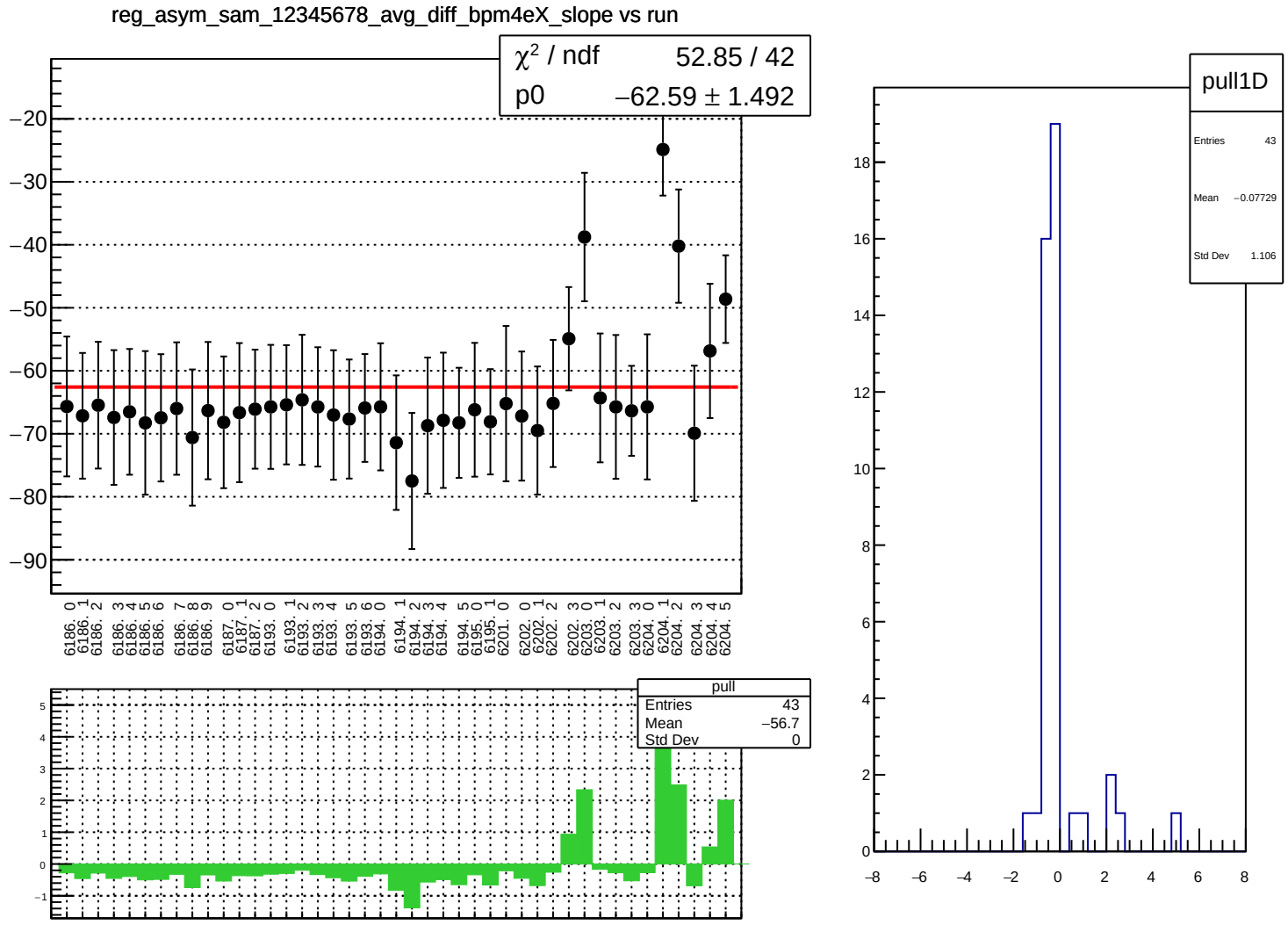

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.22 / 42
p0 24.06 ± 0.5808
35
30
25
20
15
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −52.29
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean 0.07952
Std Dev 0.9517
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

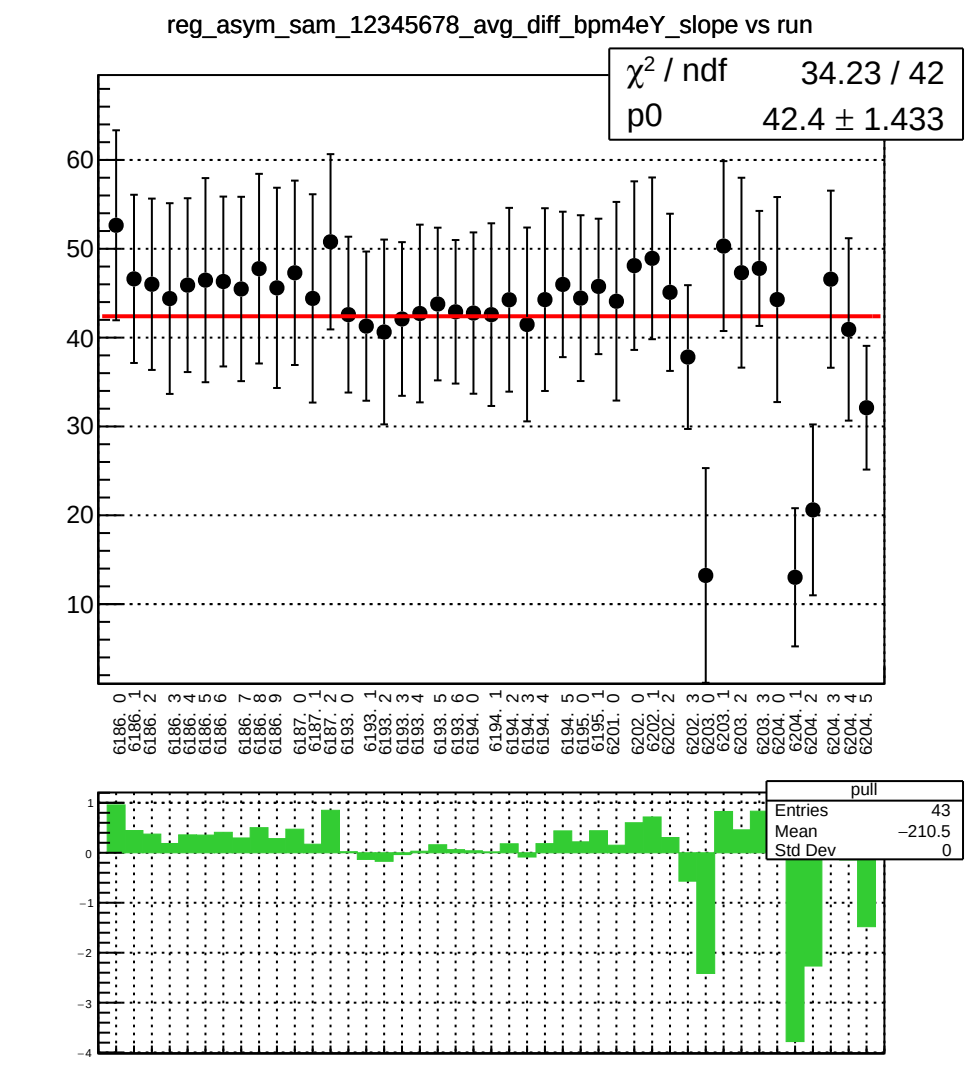

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.5 / 42
p0 −8.751 ± 0.5581
5
0
−5
−10
−15
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −128.2
Std Dev 0
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.03138
Std Dev 0.7844
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

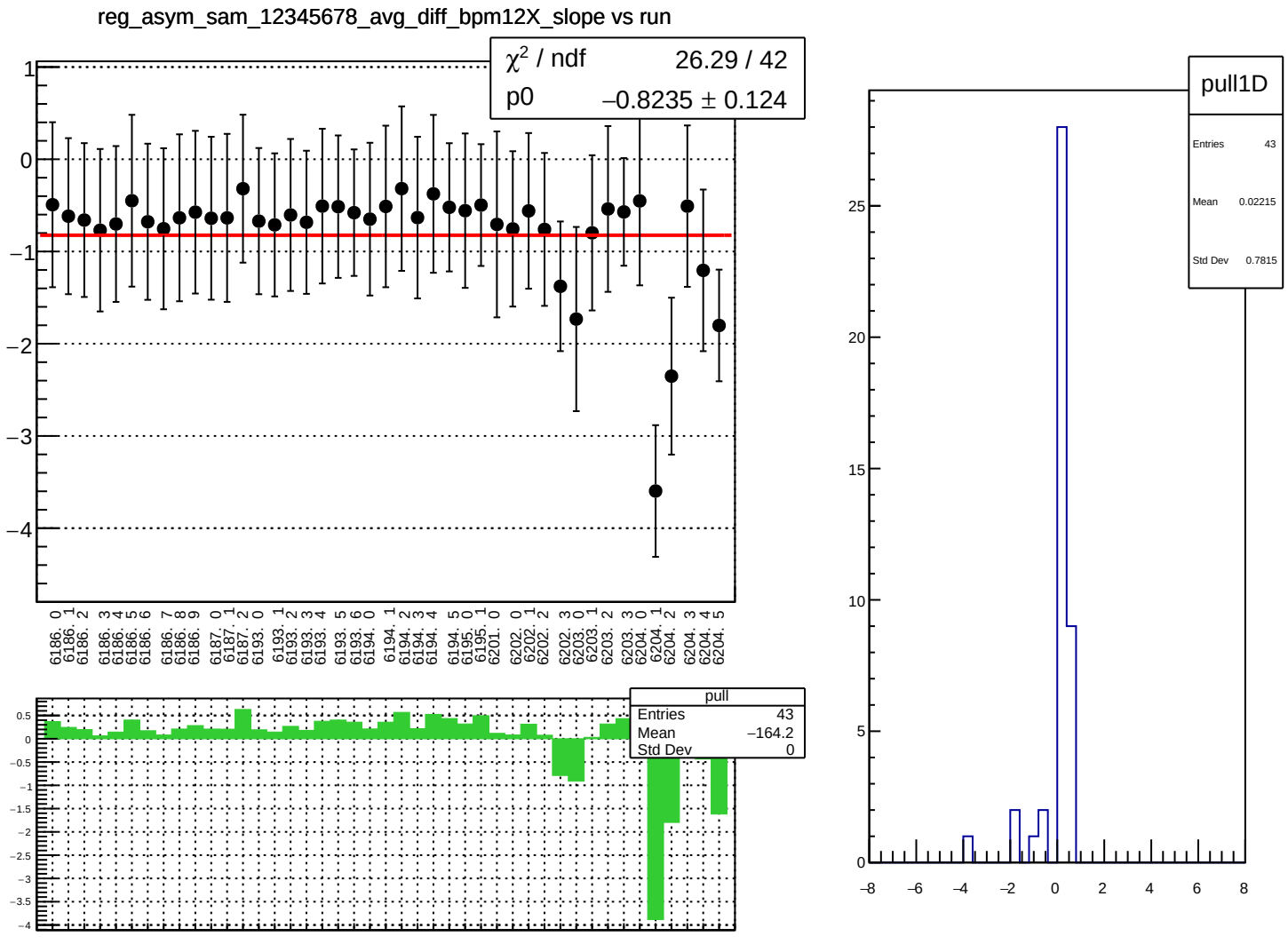

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 20.88 / 42
p0 0.3068 ± 0.04833
pull
Entries 43
Mean −107
Std Dev 0
pull1D
Entries 43
Mean −0.03181
Std Dev 0.6962

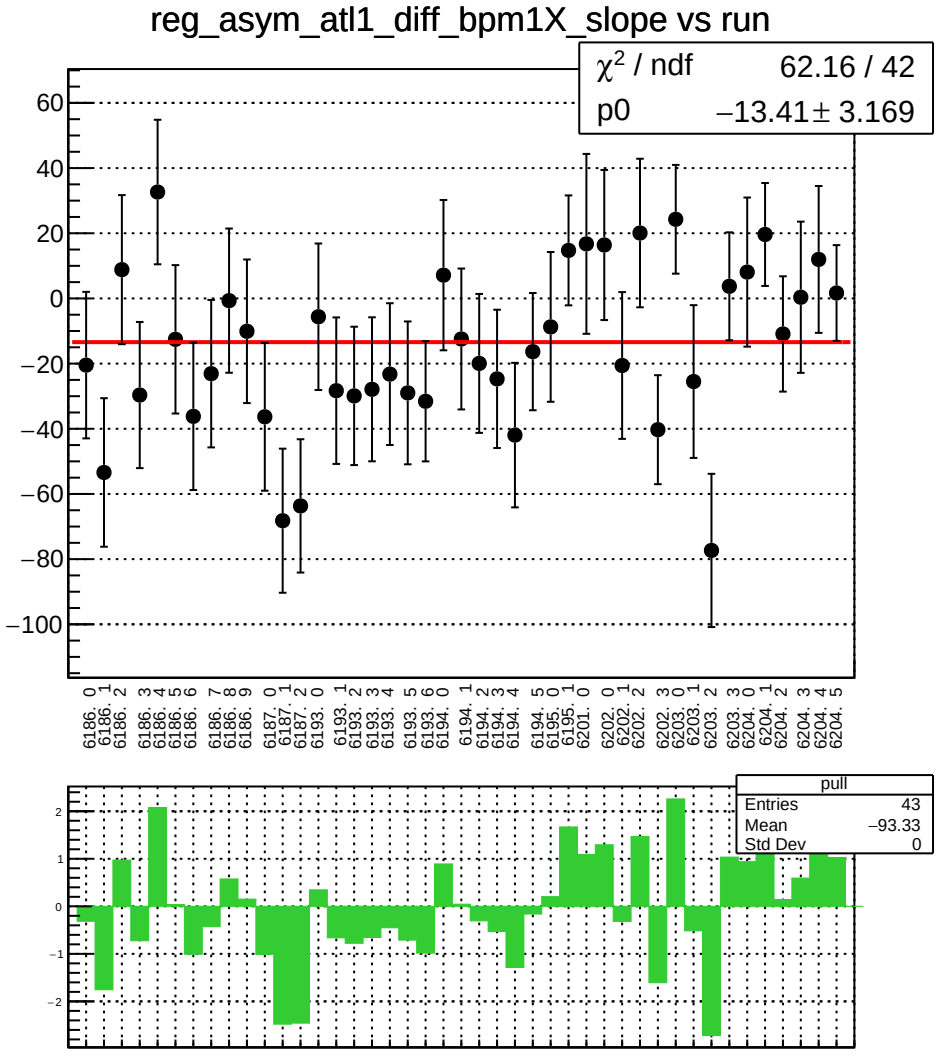

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 60.28 / 42
p0 −7.804 ± 1.367
pull
Entries 43
Mean −65.13
Std Dev 0
pull1D
Entries 43
Mean 0.07763
Std Dev 1.181

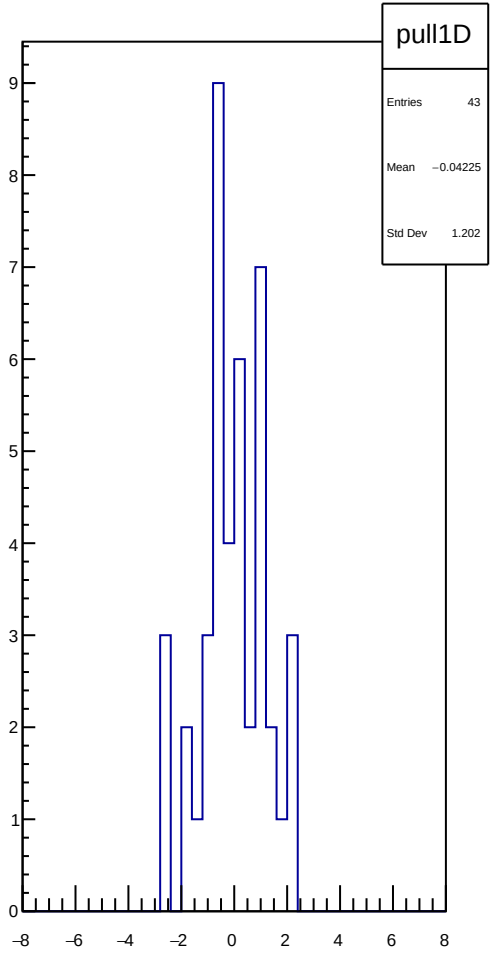

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.87 / 42
p0 −3.556 ± 1.272
40
30
20
10
0
−10
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −438.1
Std Dev 0
3
2
1
0
−1
pull1D
Entries 43
Mean −0.01143
Std Dev 0.8875
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

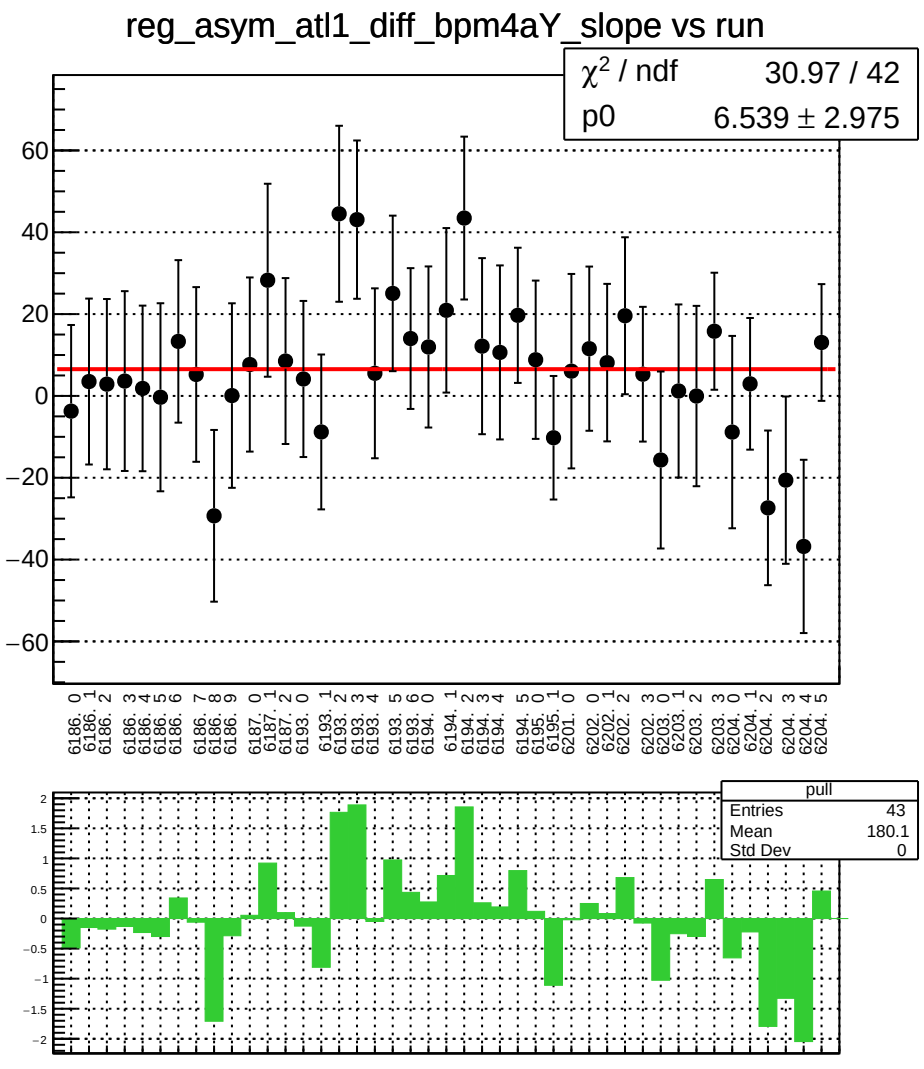

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.85 / 42
p0 −62.59 ± 1.492
−20
−30
−40
−50
−60
−70
−80
−90
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −56.7
Std Dev 0
5
4
3
2
1
0
−1
pull1D
Entries 43
Mean −0.07729
Std Dev 1.106
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

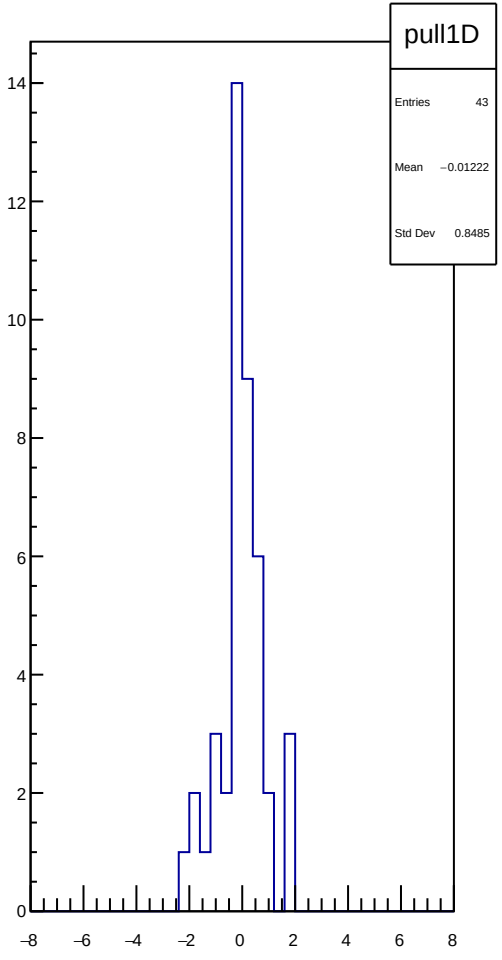

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.23 / 42
p0 42.4 ± 1.433
60
50
40
30
20
10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −210.5
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 43
Mean 0.01978
Std Dev 0.8921
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

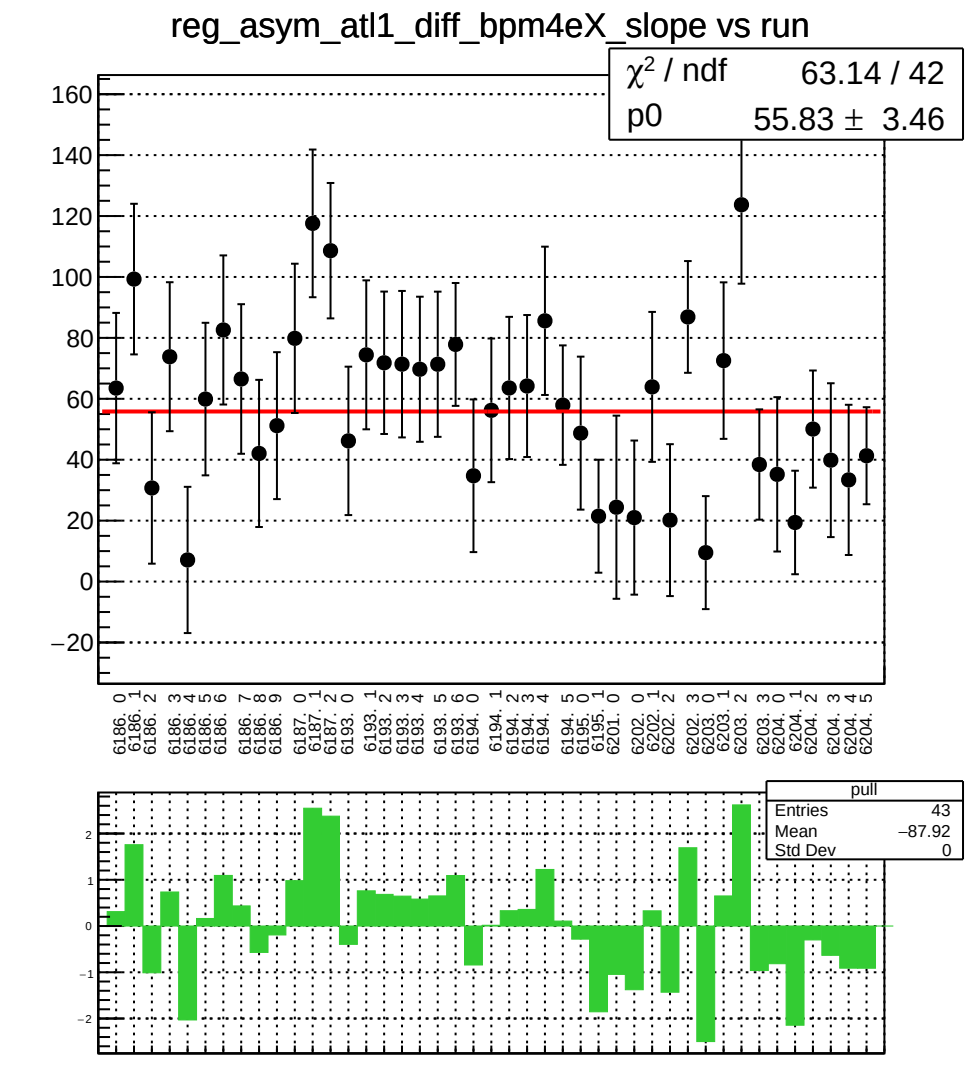

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 26.29 / 42
p0 −0.8235 ± 0.124
pull
Entries 43
Mean −164.2
Std Dev 0
pull1D
Entries 43
Mean 0.02215
Std Dev 0.7815

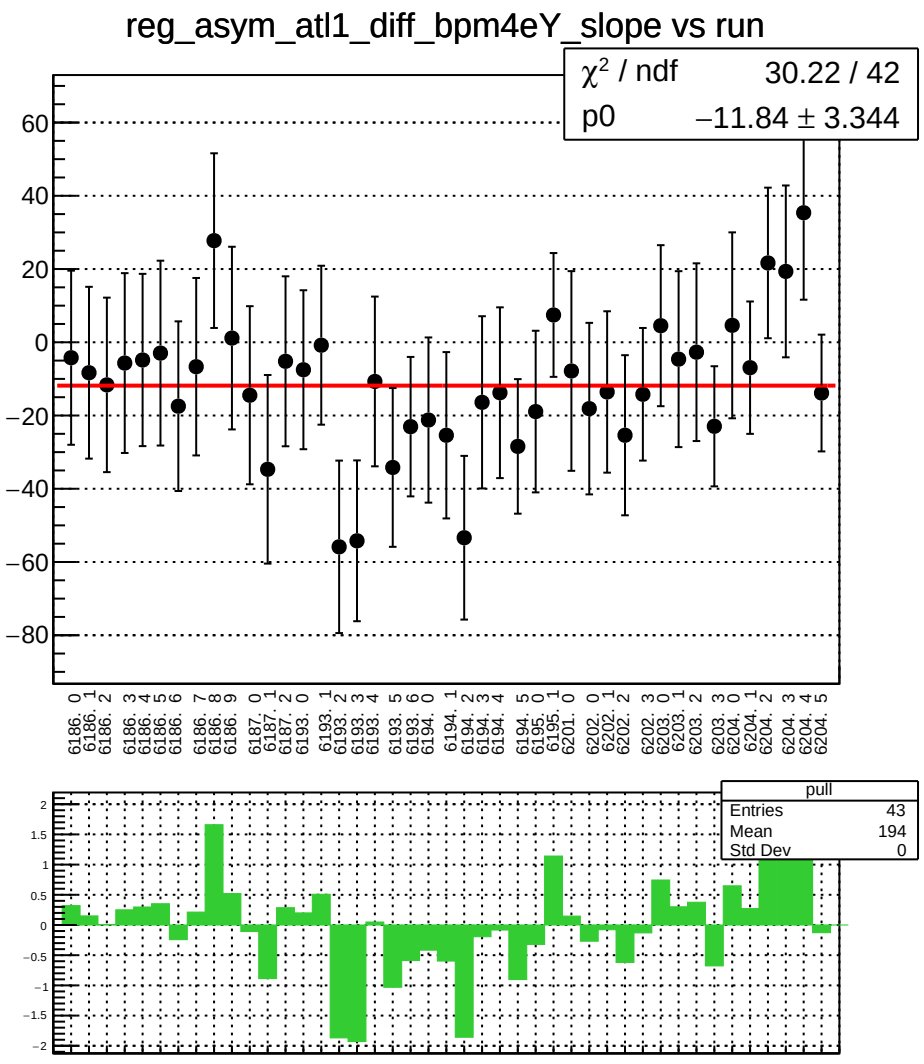

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 62.16 / 42
p0 −13.41 ± 3.169
pull
Entries 43
Mean −93.33
Std Dev 0

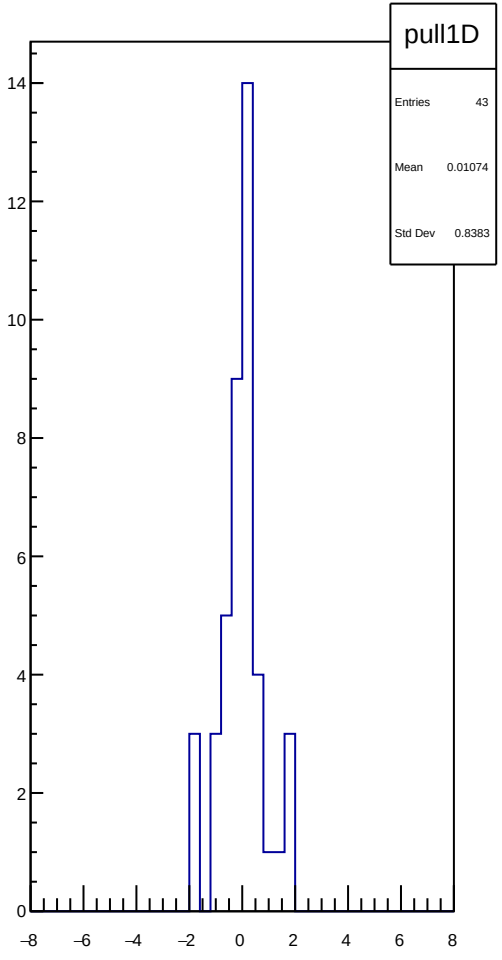

pull1D
Entries 43
Mean −0.04225
Std Dev 1.202

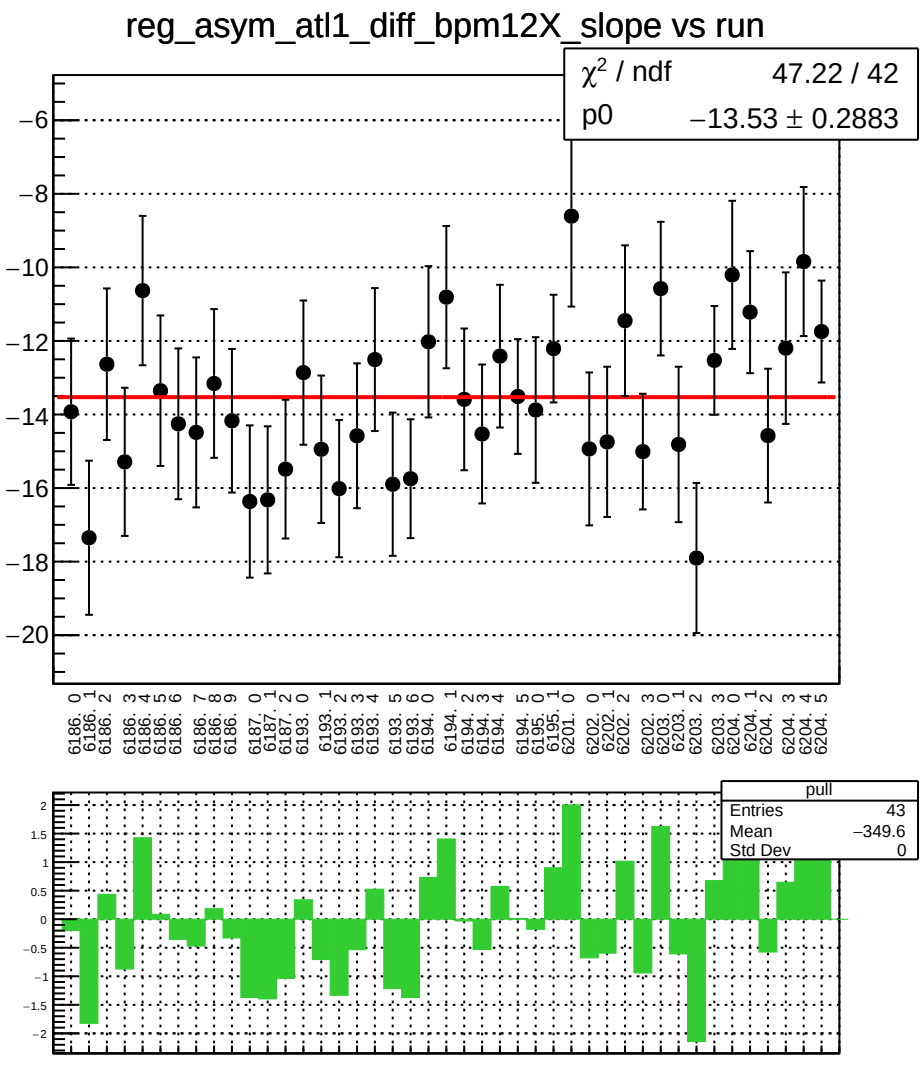

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 30.97 / 42
p0 6.539 ± 2.975
pull
Entries 43
Mean 180.1
Std Dev 0

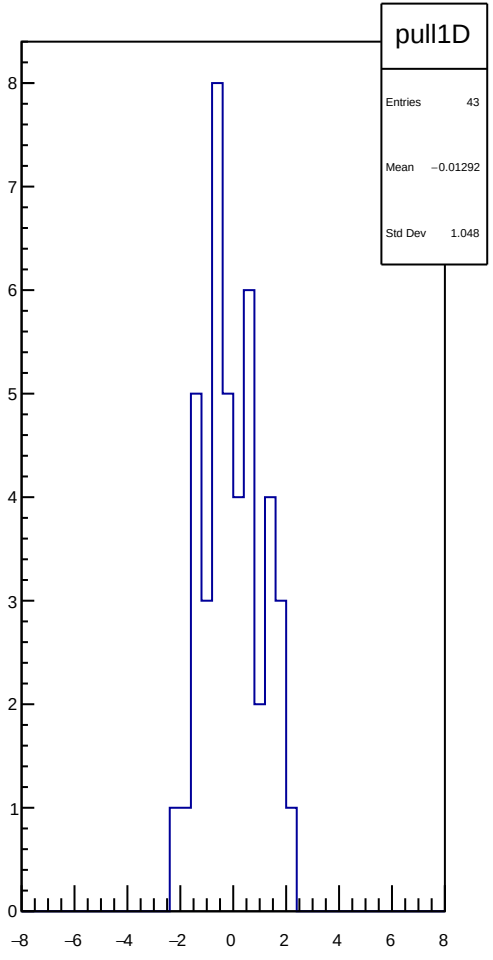

pull1D
Entries 43
Mean −0.01222
Std Dev 0.8485

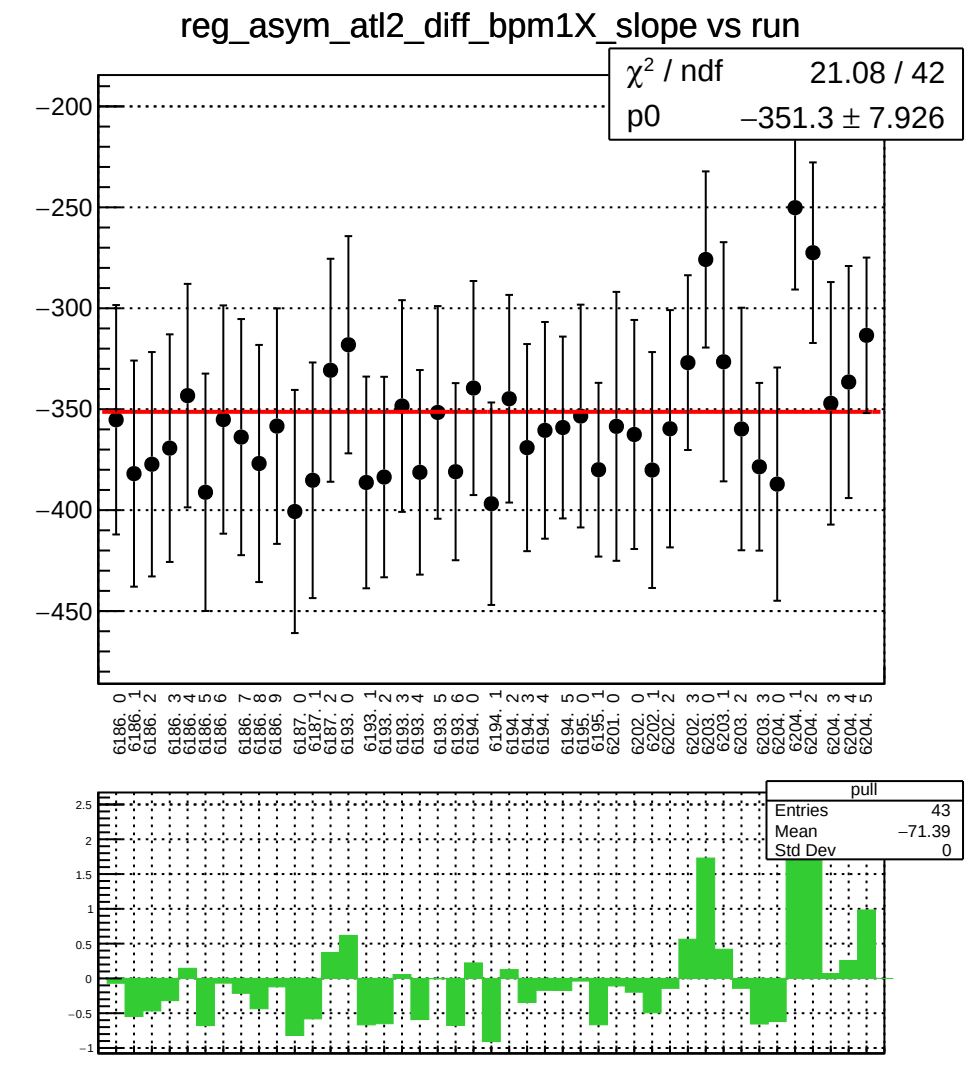

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 63.14 / 42
p0 55.83 ± 3.46
160
140
120
100
80
60
40
20
0
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −87.92
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.04492
Std Dev 1.211
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

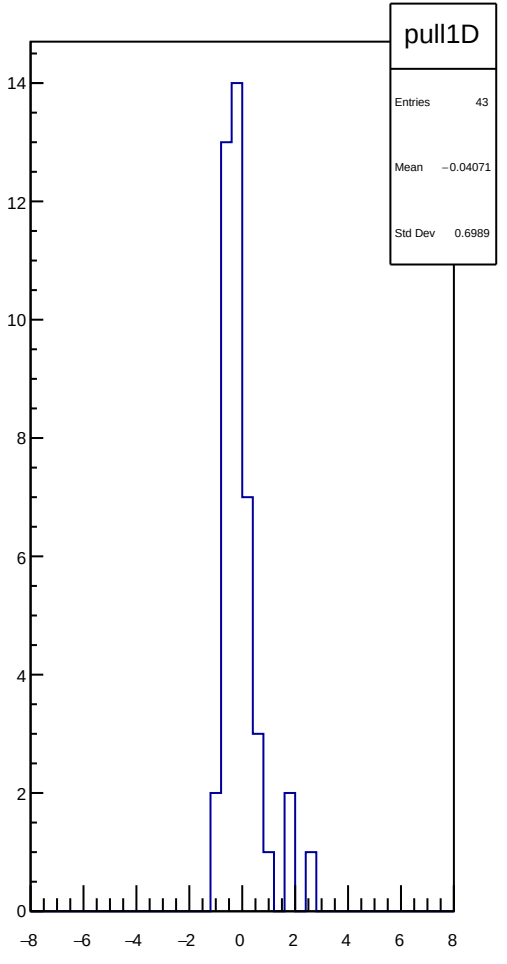

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 30.22 / 42
p0 −11.84 ± 3.344
pull
Entries 43
Mean 194
Std Dev 0

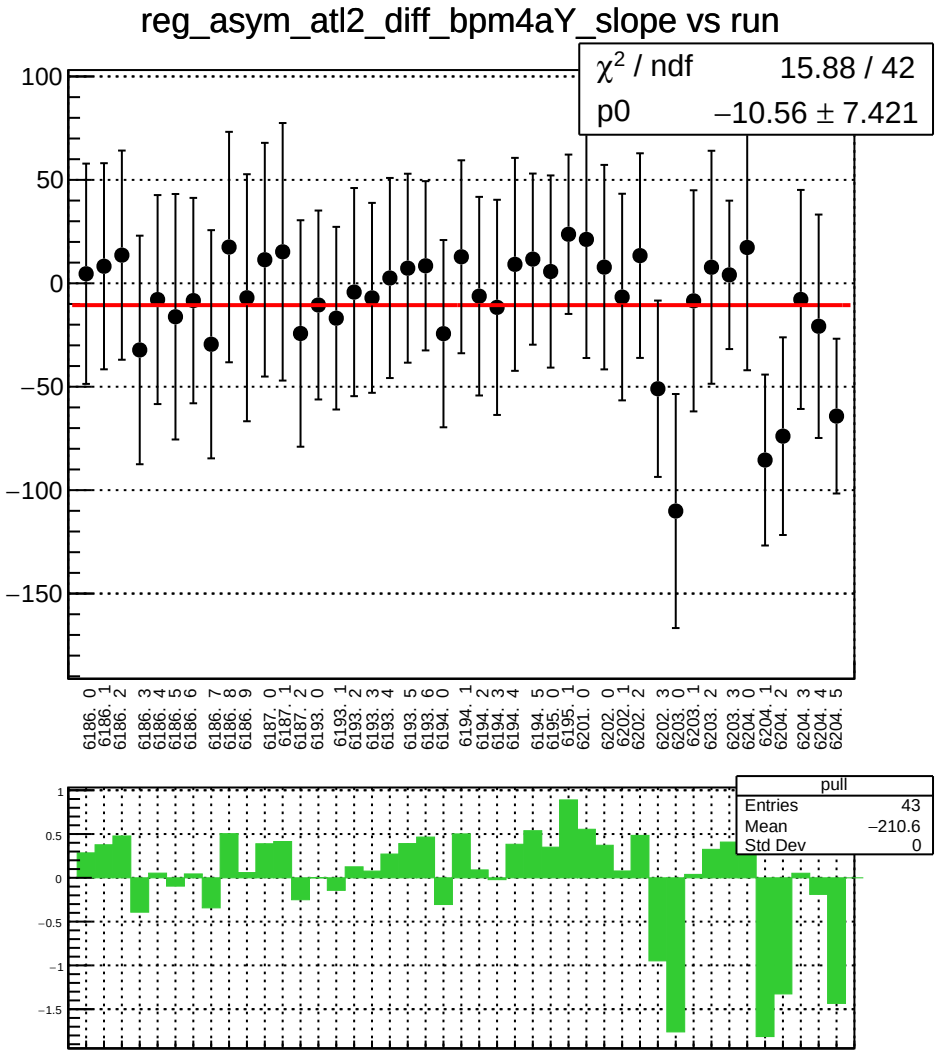

pull1D
Entries 43
Mean 0.01074
Std Dev 0.8383

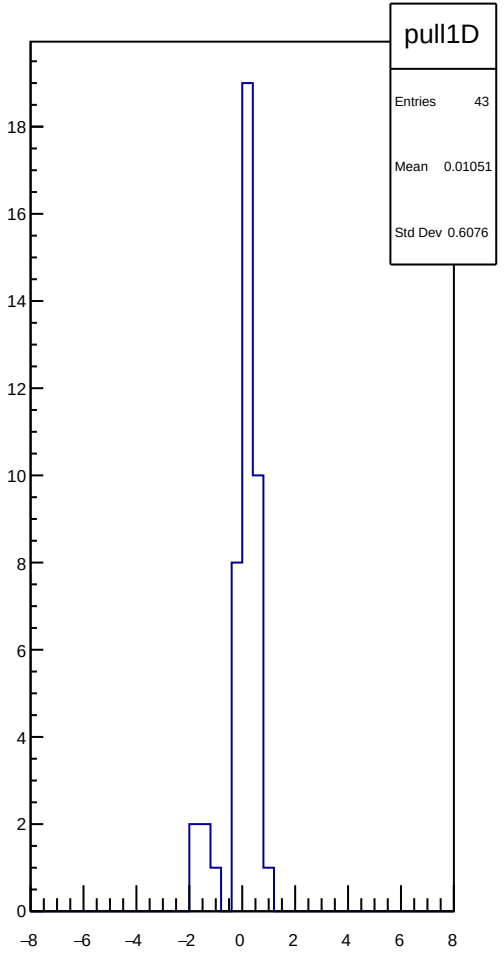

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 47.22 / 42
p0 −13.53 ± 0.2883
pull
Entries 43
Mean −349.6
Std Dev 0

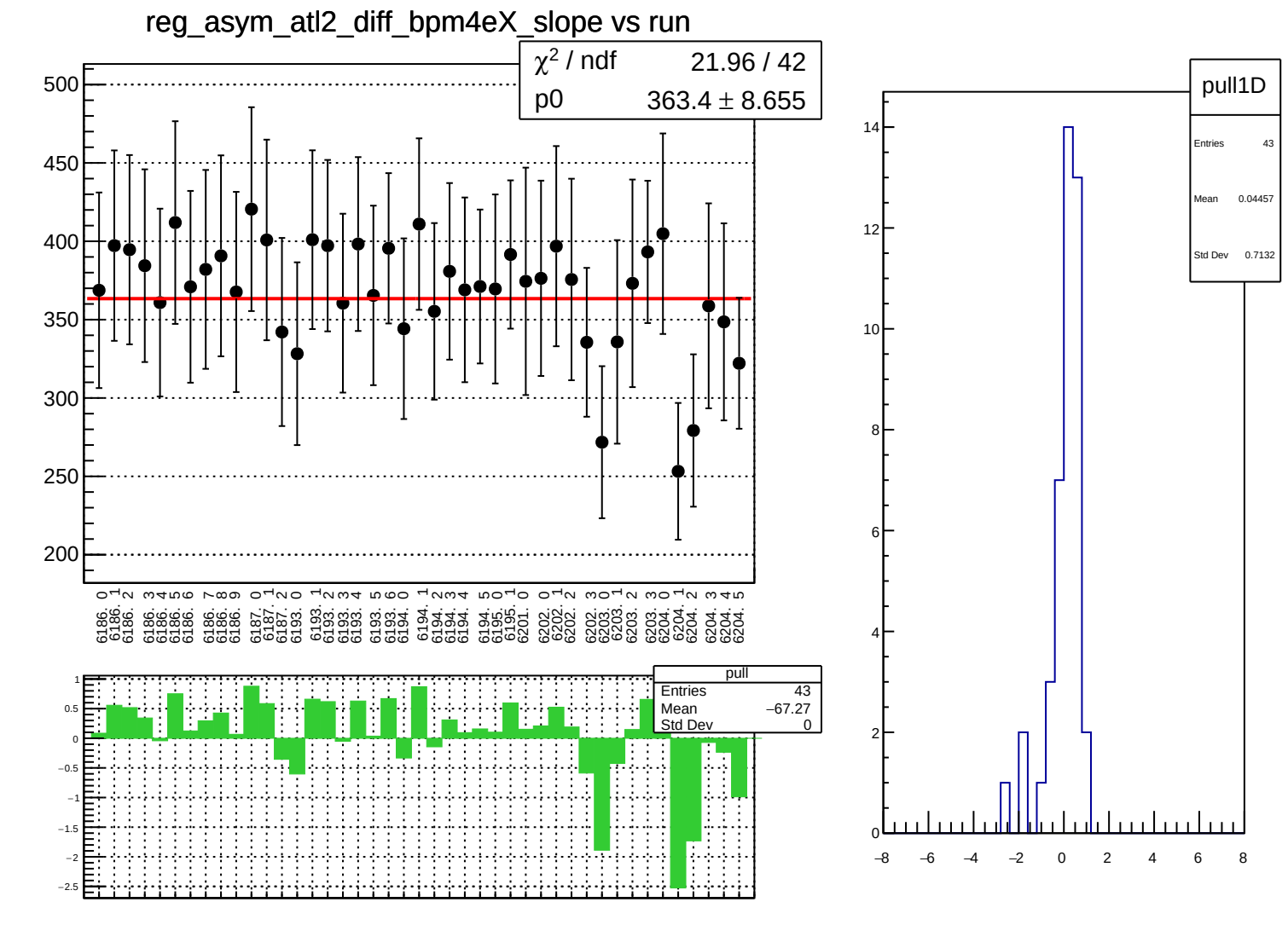

pull1D
Entries 43
Mean −0.01292
Std Dev 1.048

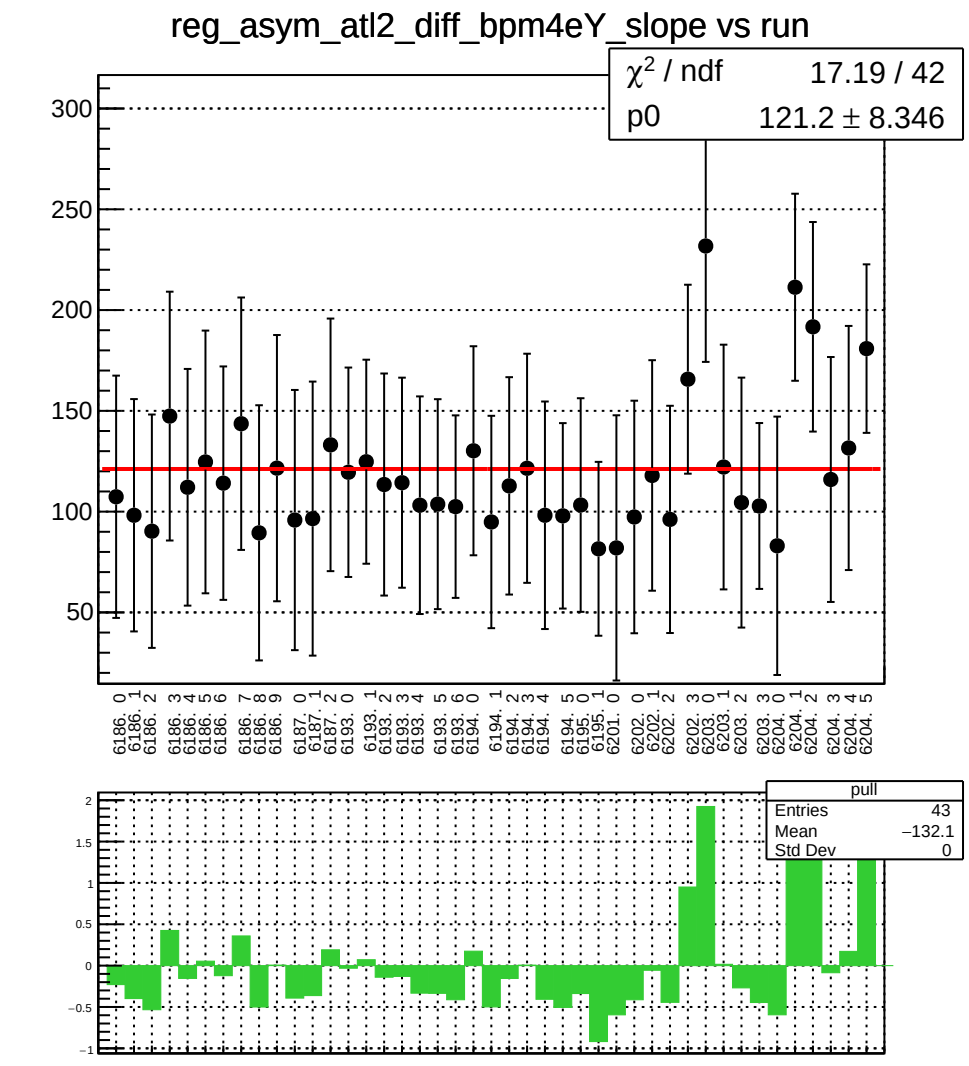

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 21.08 / 42
p0 −351.3 ± 7.926
−200
−250
−300
−350
−400
−450
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −71.39
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

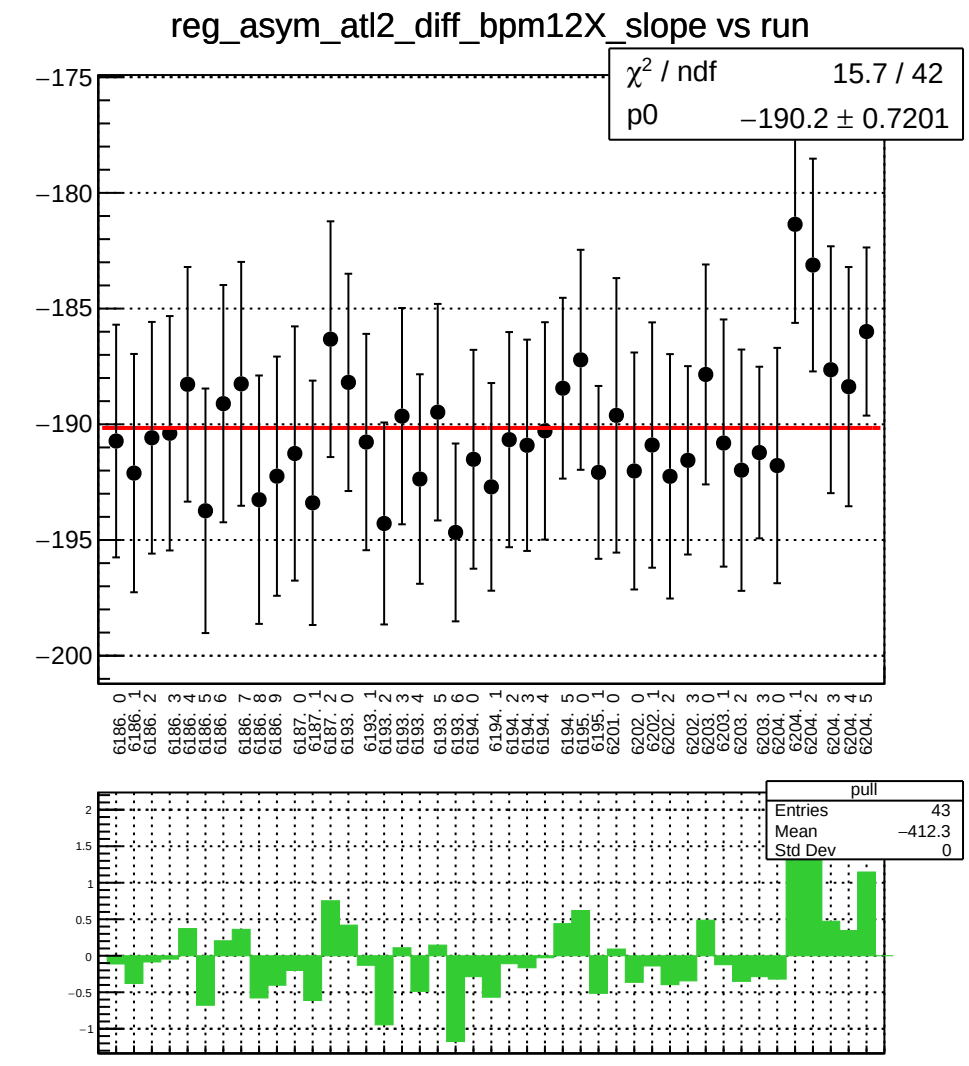

pull1D
Entries 43
Mean −0.04071
Std Dev 0.6989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

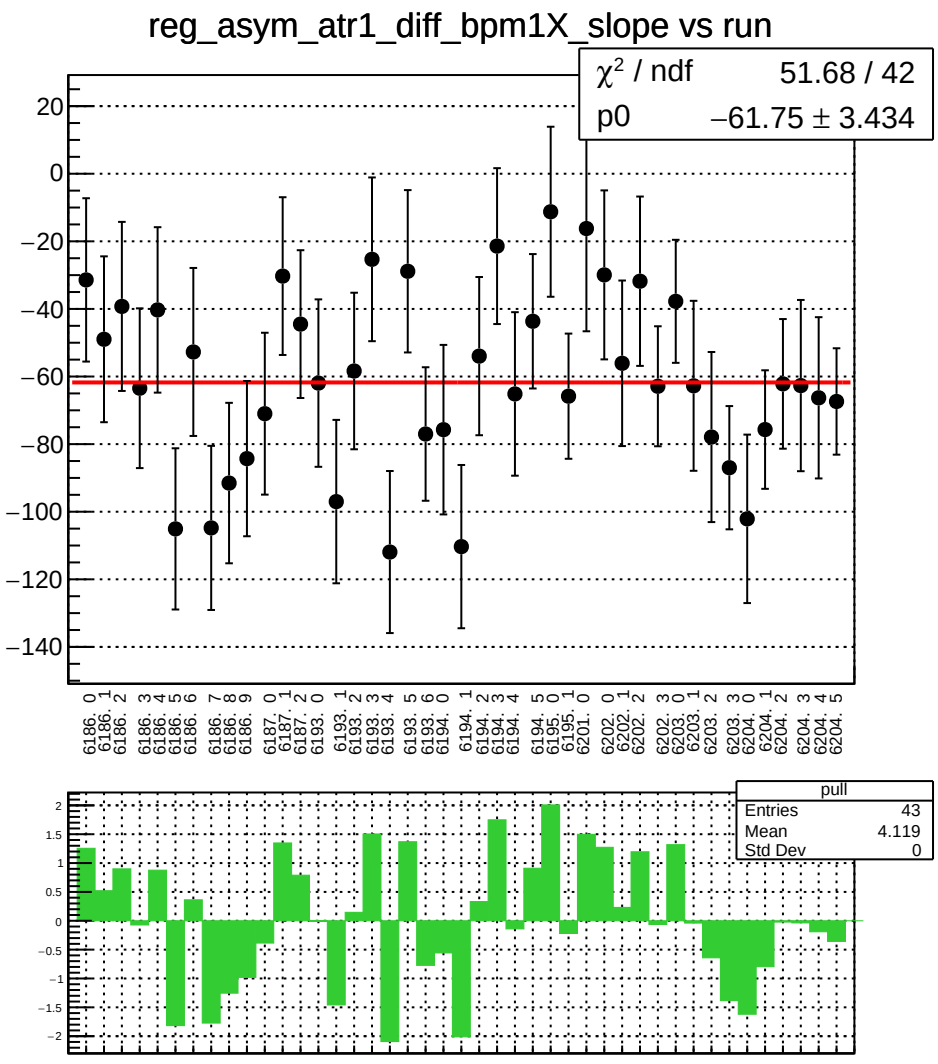

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 15.88 / 42
p0 −10.56 ± 7.421
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −210.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

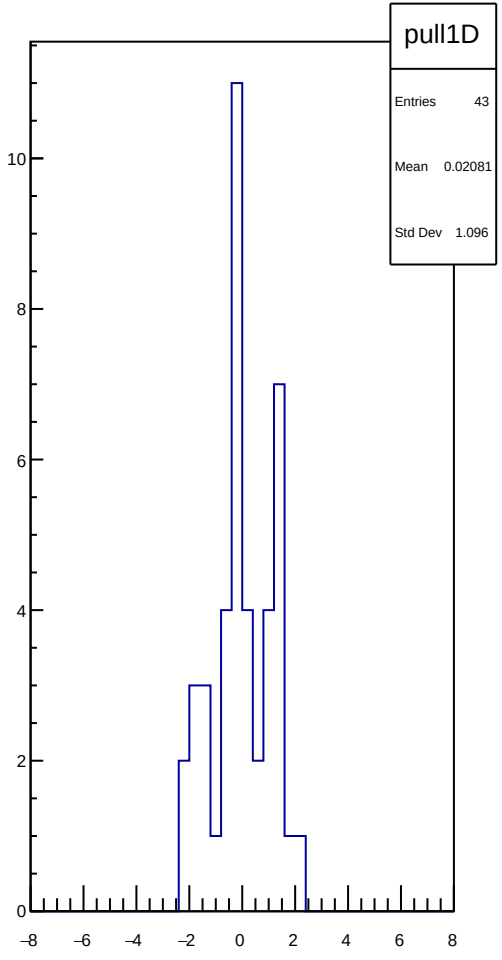

pull1D
Entries 43
Mean 0.01051
Std Dev 0.6076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

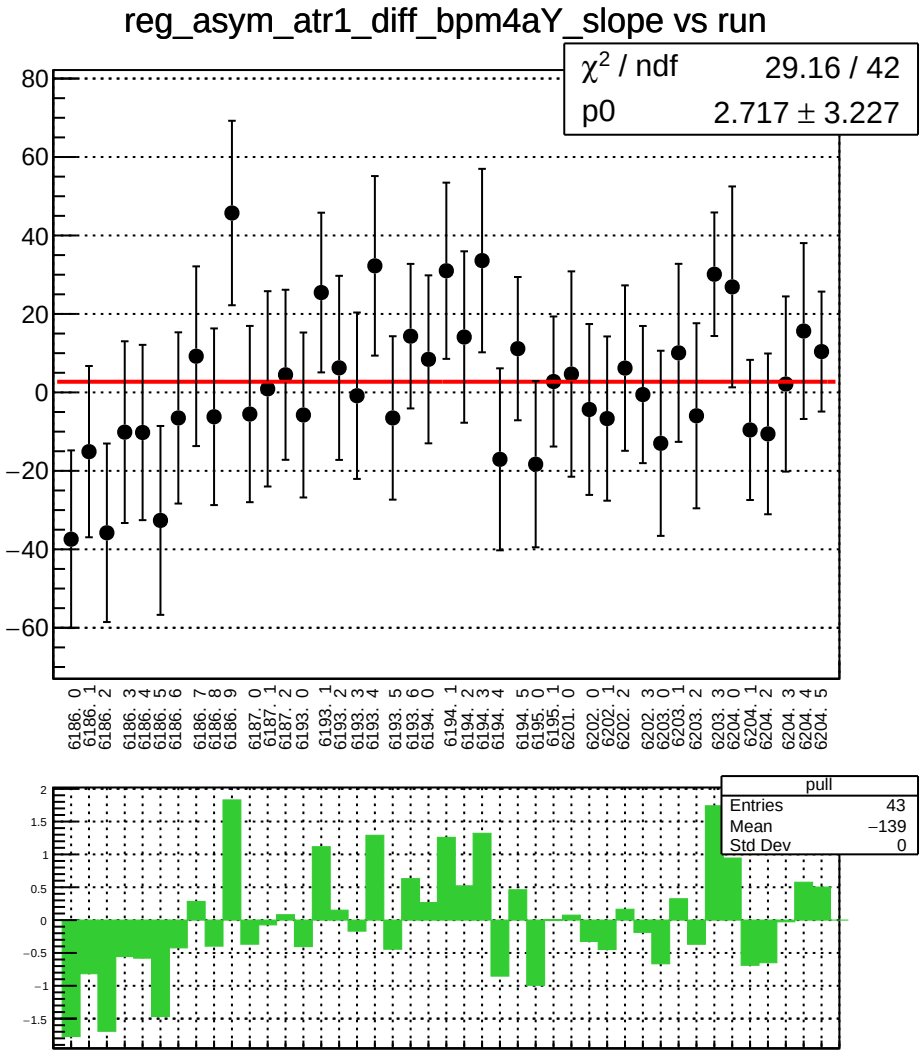

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 21.96 / 42
p0 363.4 ± 8.655
pull
Entries 43
Mean −67.27
Std Dev 0
pull1D
Entries 43
Mean 0.04457
Std Dev 0.7132

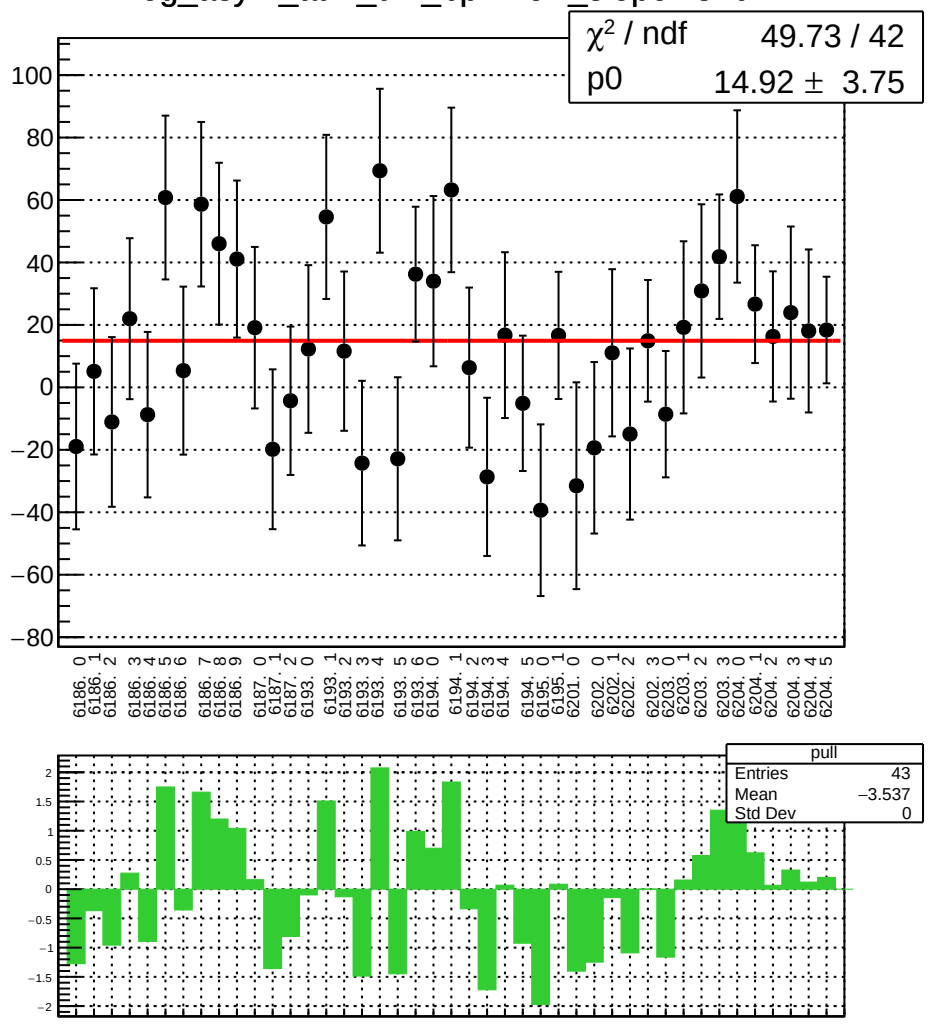

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 17.19 / 42
p0 121.2 ± 8.346
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −132.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.01677
Std Dev 0.632
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

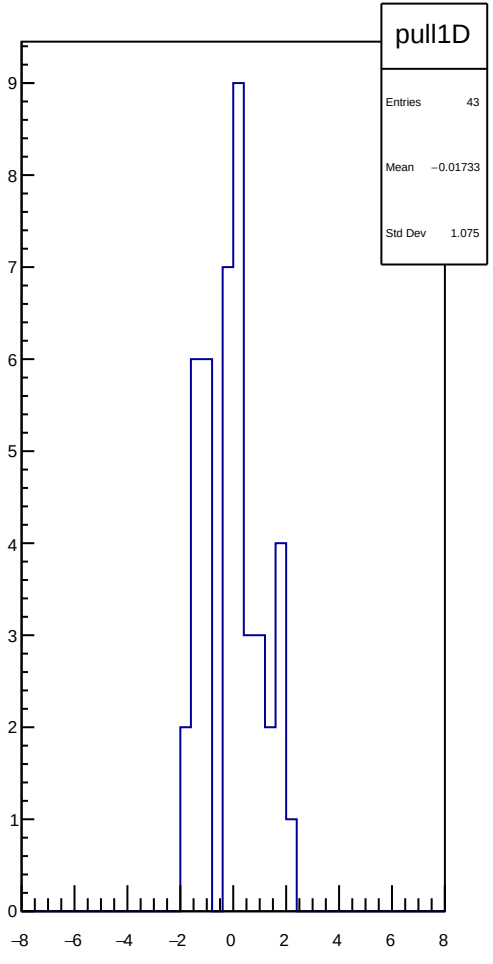

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 15.7 / 42
p0 −190.2 ± 0.7201
−175
−180
−185
−190
−195
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −412.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.006008
Std Dev 0.6042
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

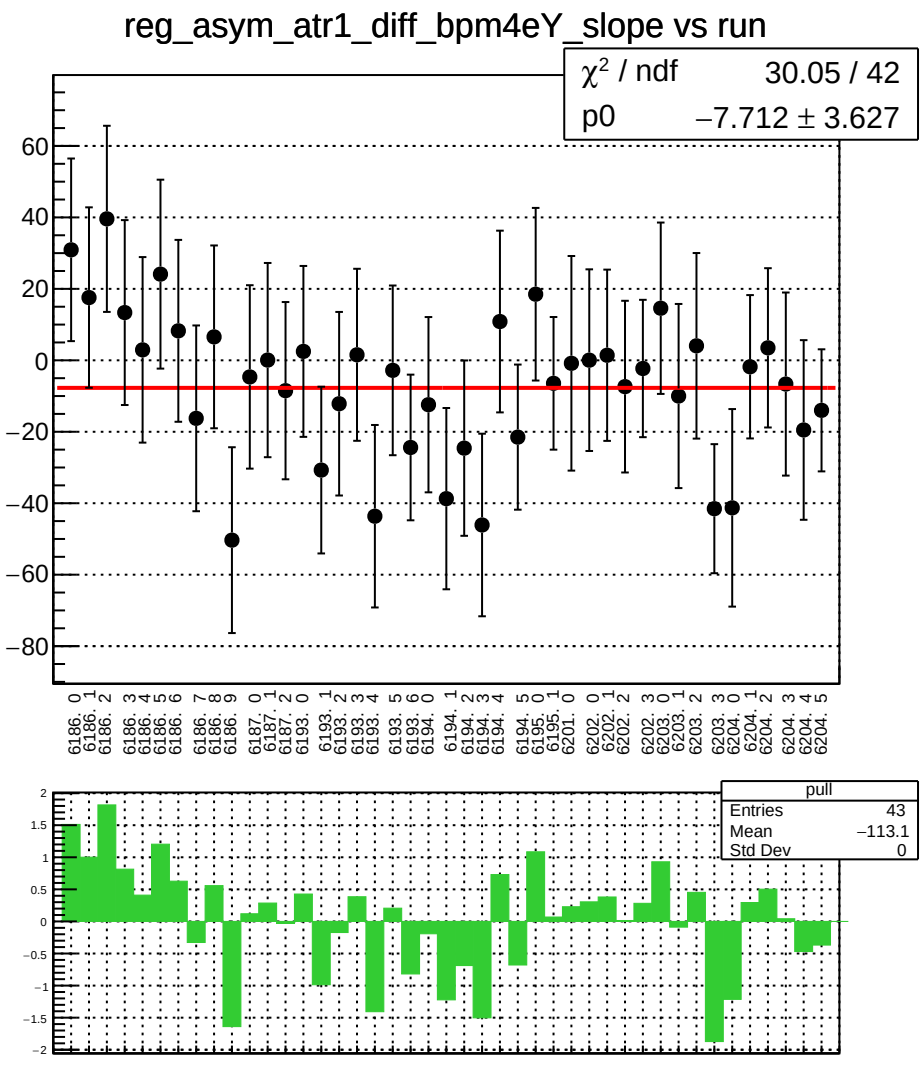

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 51.68 / 42
p0 −61.75 ± 3.434
pull
Entries 43
Mean 4.119
Std Dev 0

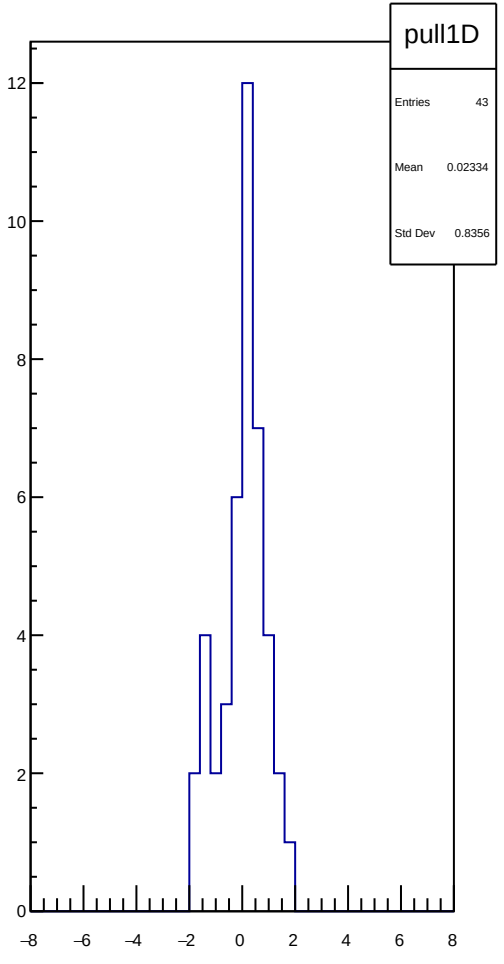

pull1D
Entries 43
Mean 0.02081
Std Dev 1.096

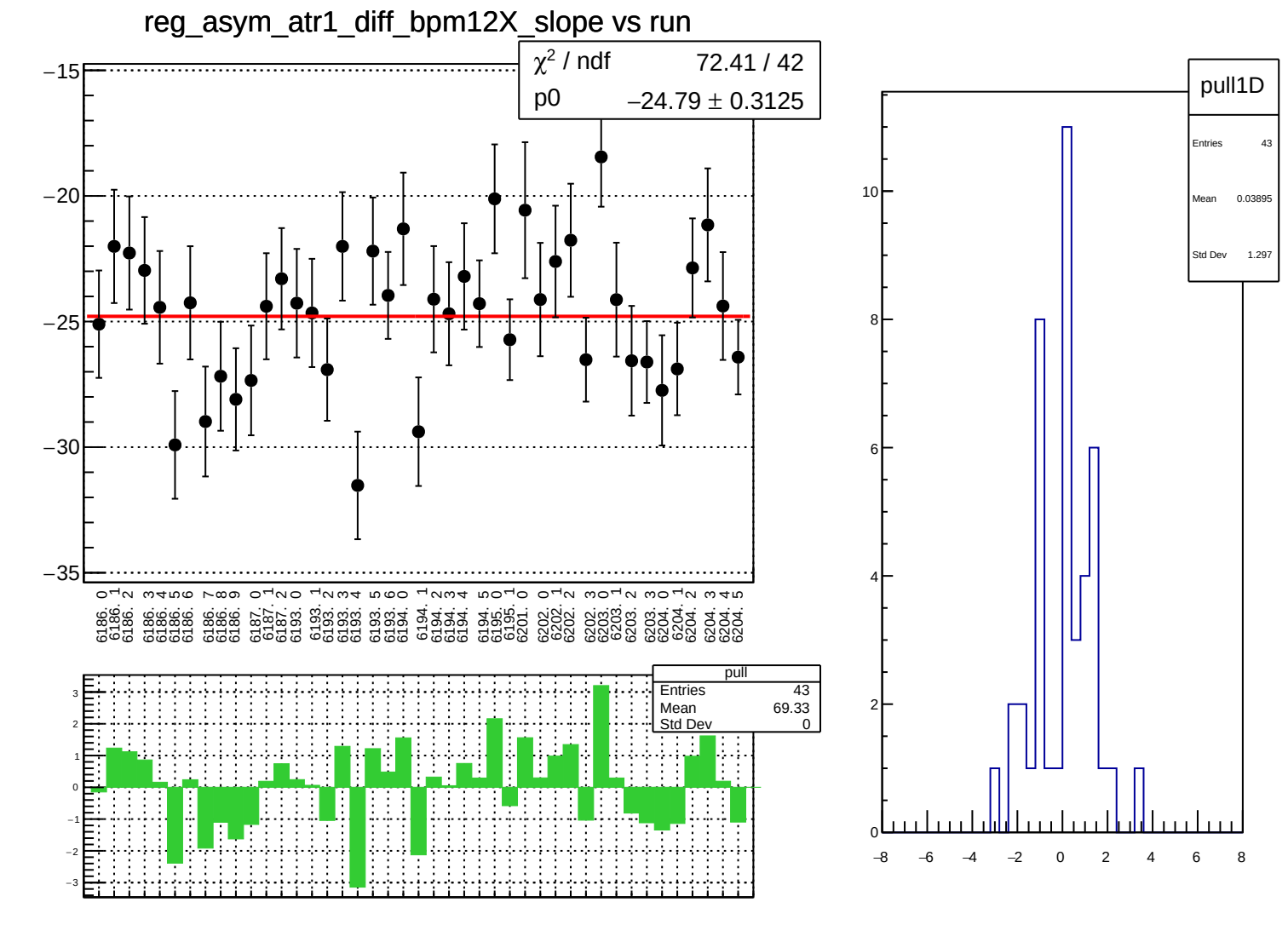

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 29.16 / 42
p0 2.717 ± 3.227
pull
Entries 43
Mean −139
Std Dev 0
pull1D
Entries 43
Mean −0.01886
Std Dev 0.8233

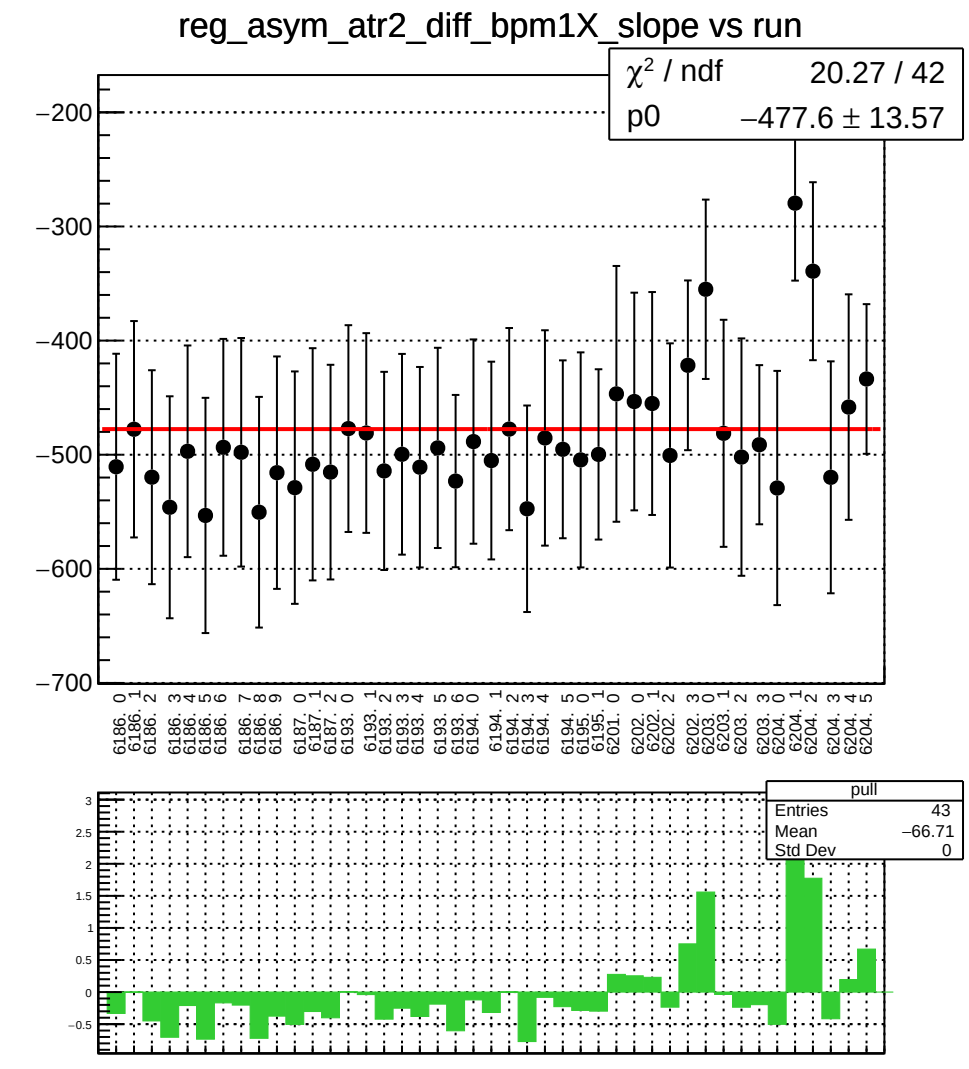

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 49.73 / 42
p0 14.92 ± 3.75
pull
Entries 43
Mean −3.537
Std Dev 0

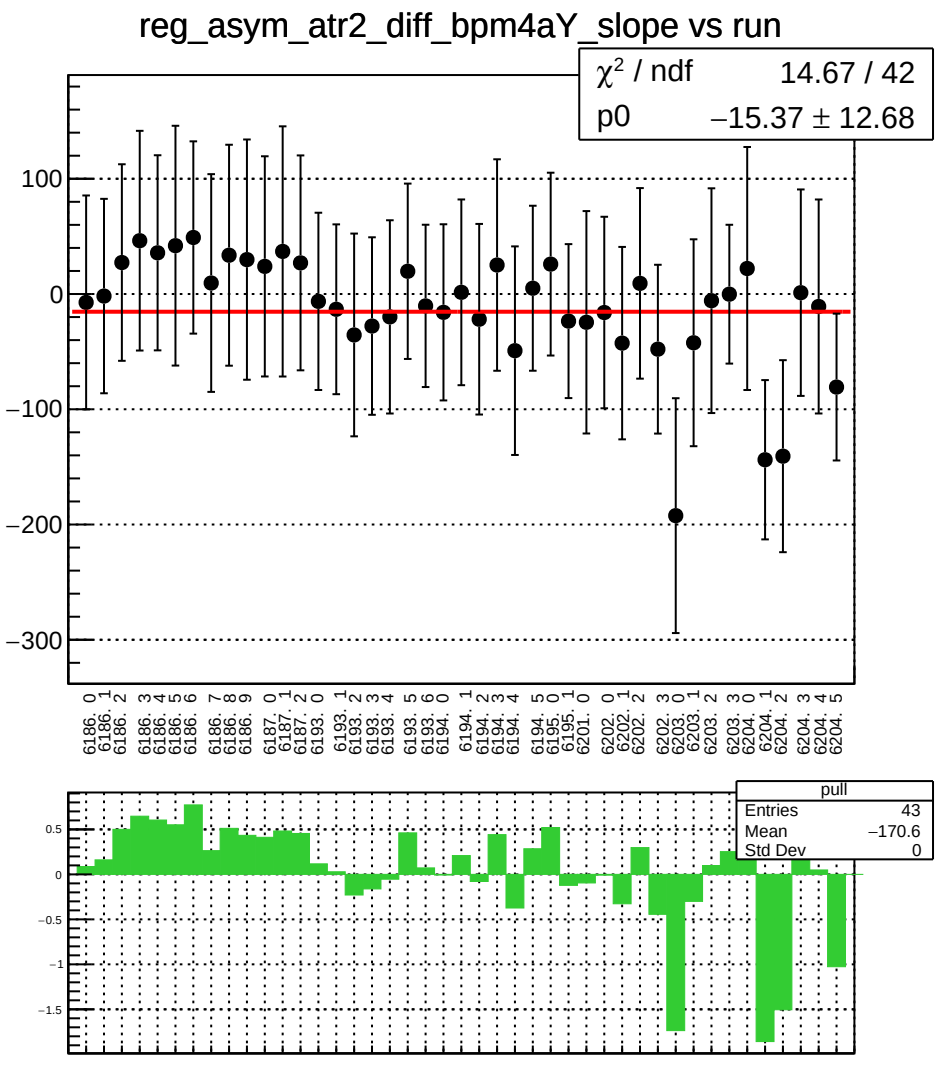

pull1D
Entries 43
Mean −0.01733
Std Dev 1.075

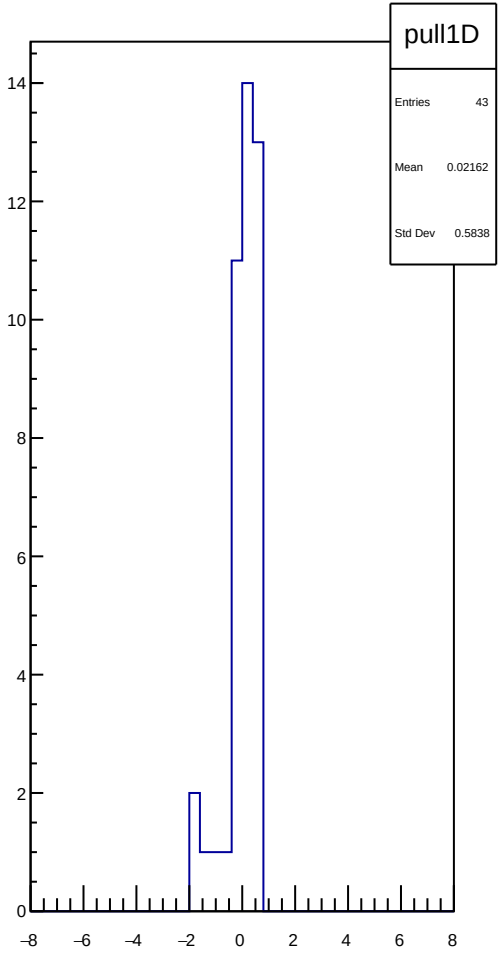

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 30.05 / 42
p0 −7.712 ± 3.627
pull
Entries 43
Mean −113.1
Std Dev 0

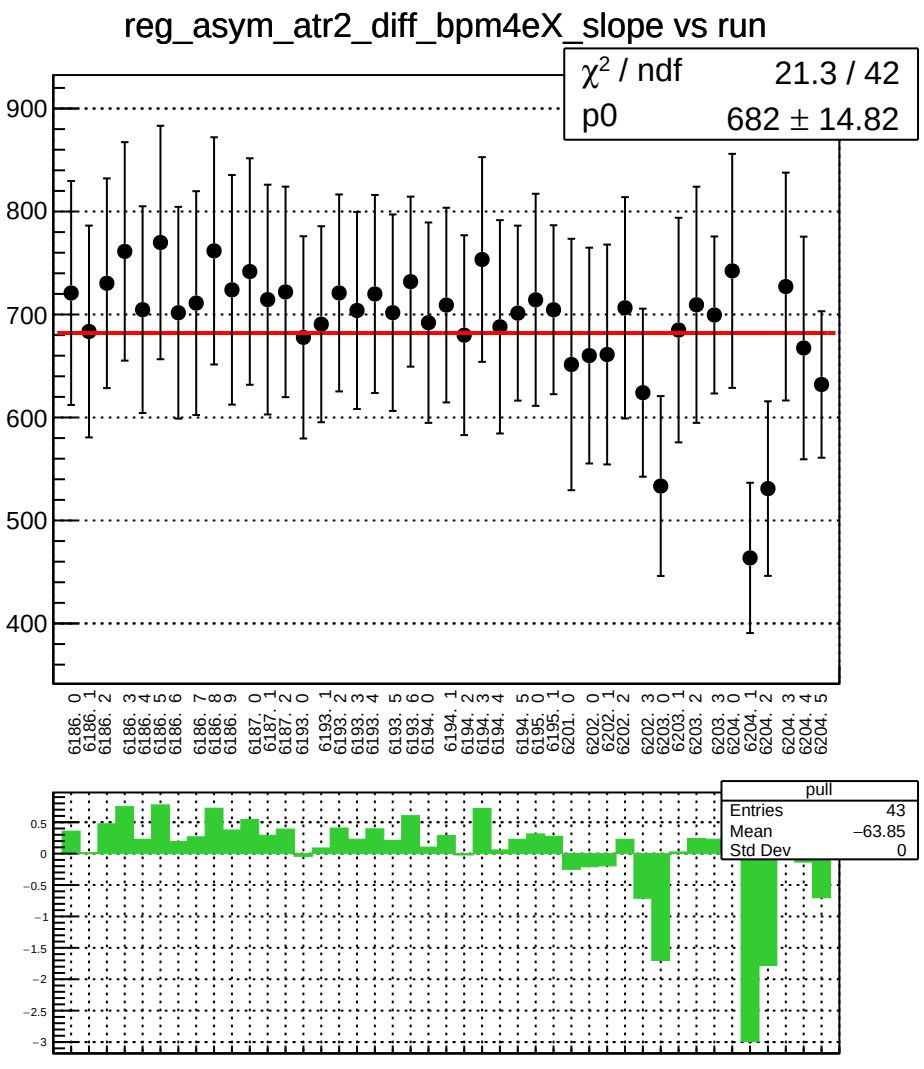

pull1D
Entries 43
Mean 0.02334
Std Dev 0.8356

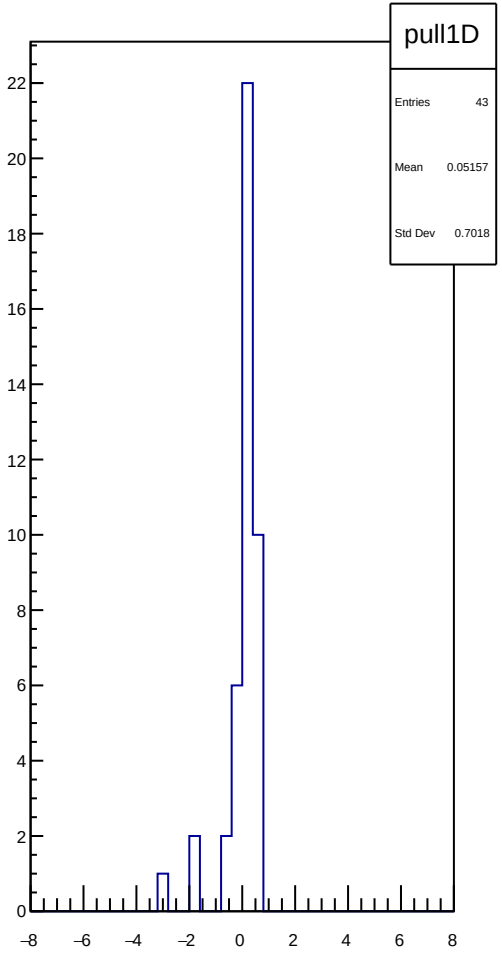

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 72.41 / 42
p0 −24.79 ± 0.3125
−15
−20
−25
−30
−35
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 69.33
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.03895
Std Dev 1.297
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

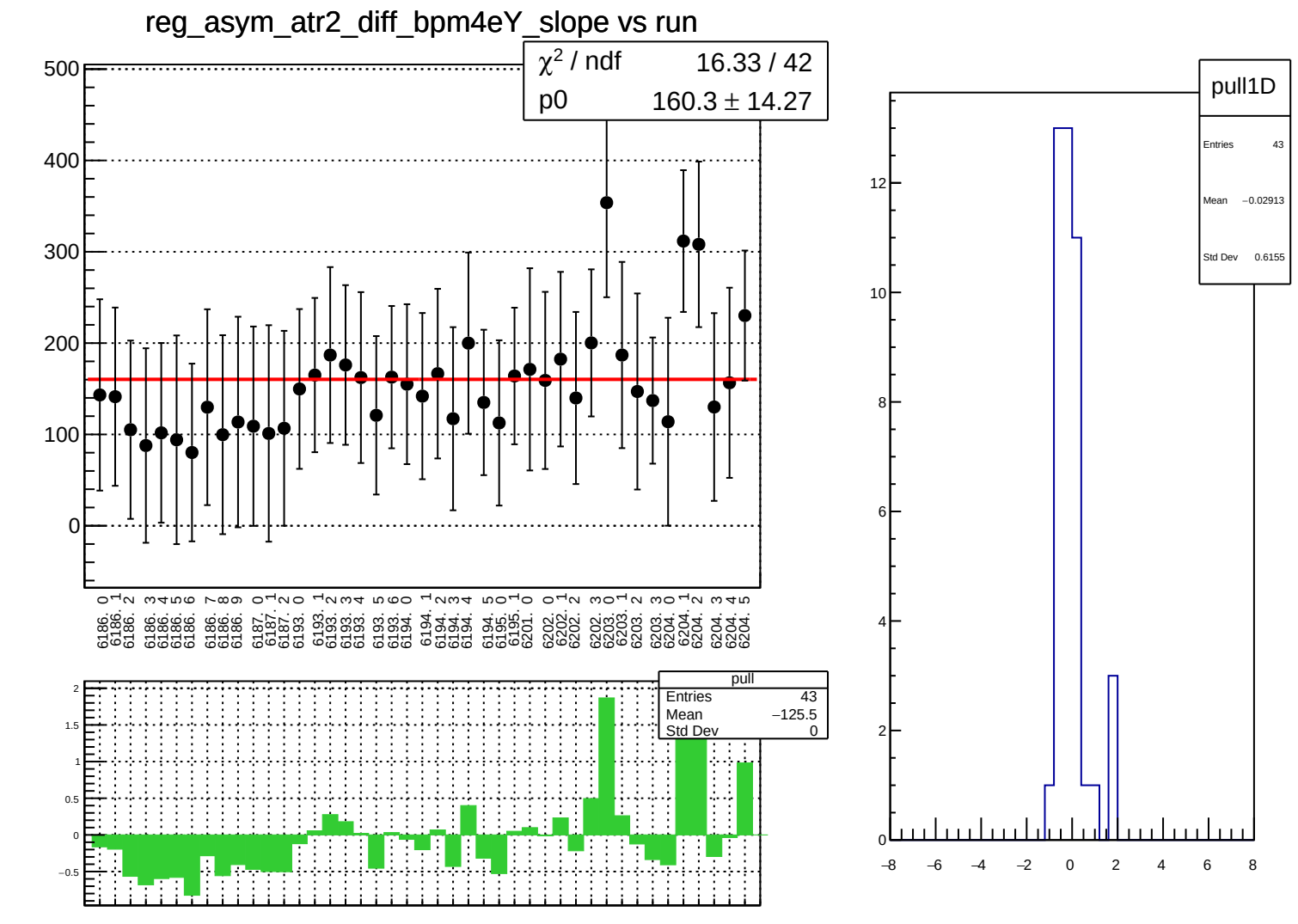

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 20.27 / 42
p0 −477.6 ± 13.57
pull
Entries 43
Mean −66.71
Std Dev 0
pull1D
Entries 43
Mean −0.0485
Std Dev 0.6849

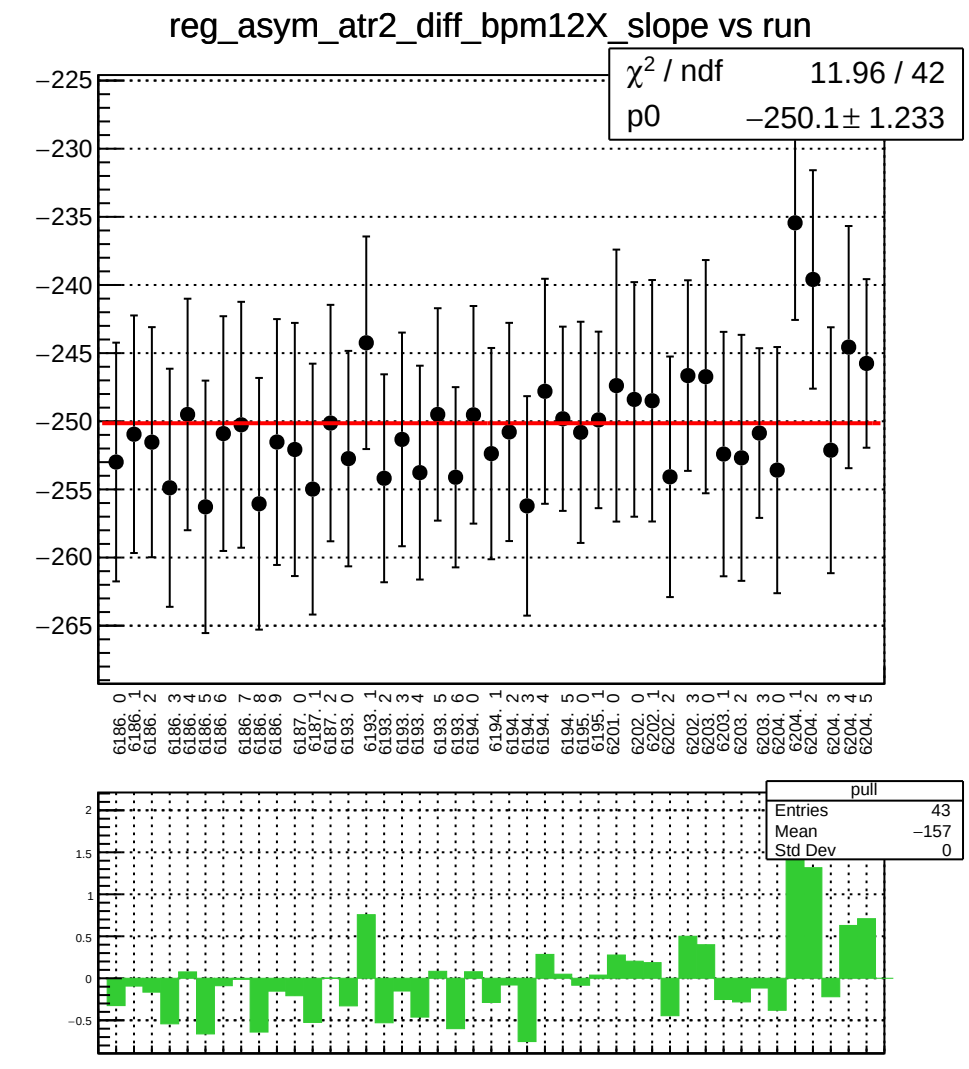

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 14.67 / 42
p0 −15.37 ± 12.68
100
0
−100
−200
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −170.6
Std Dev 0
0.5
0
−0.5
−1
−1.5

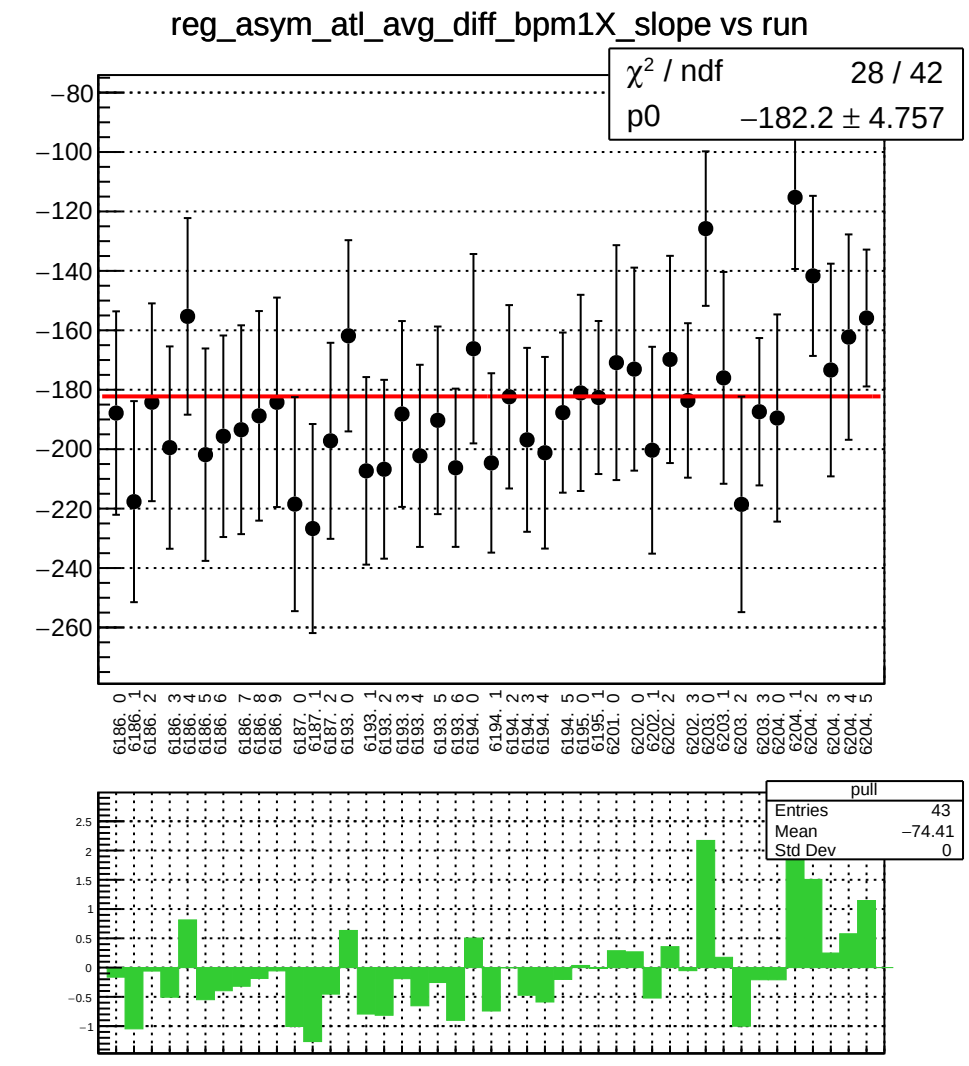

pull1D
Entries 43
Mean 0.02162
Std Dev 0.5838
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

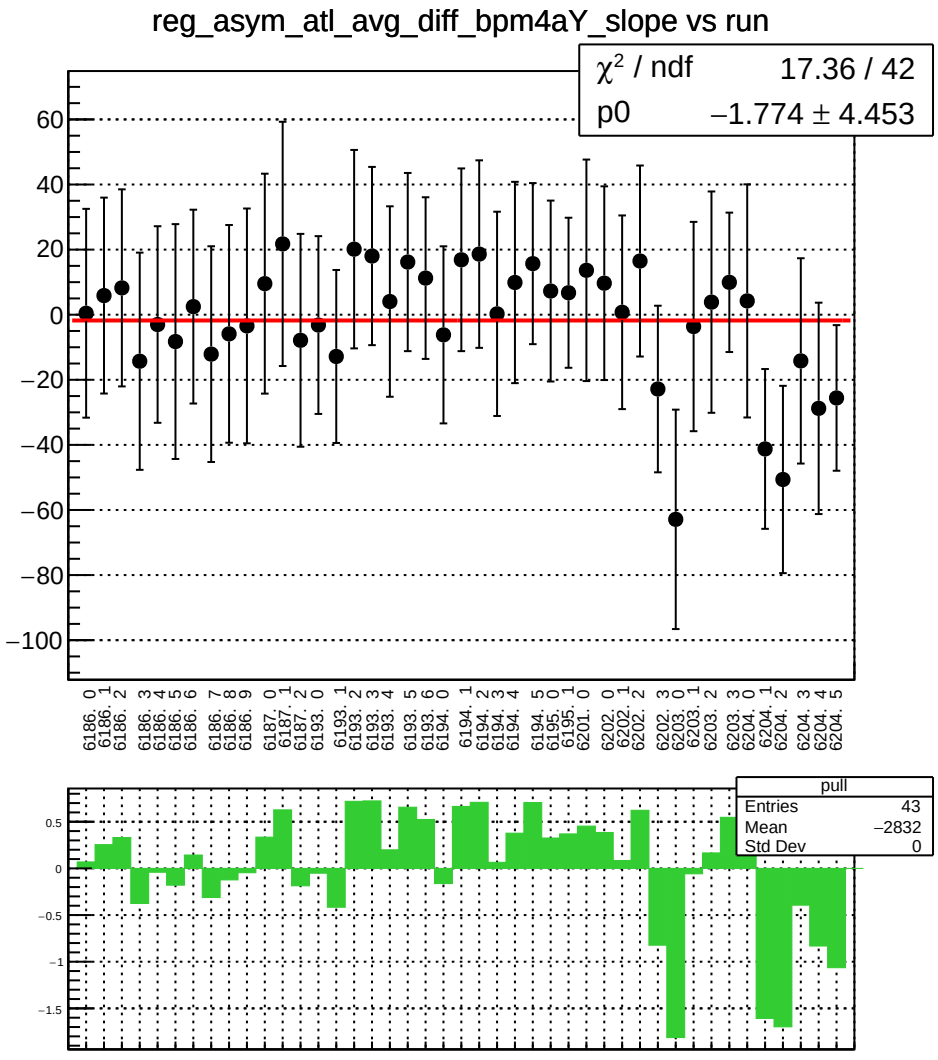

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 21.3 / 42
p0 682 ± 14.82
900
800
700
600
500
400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −63.85
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

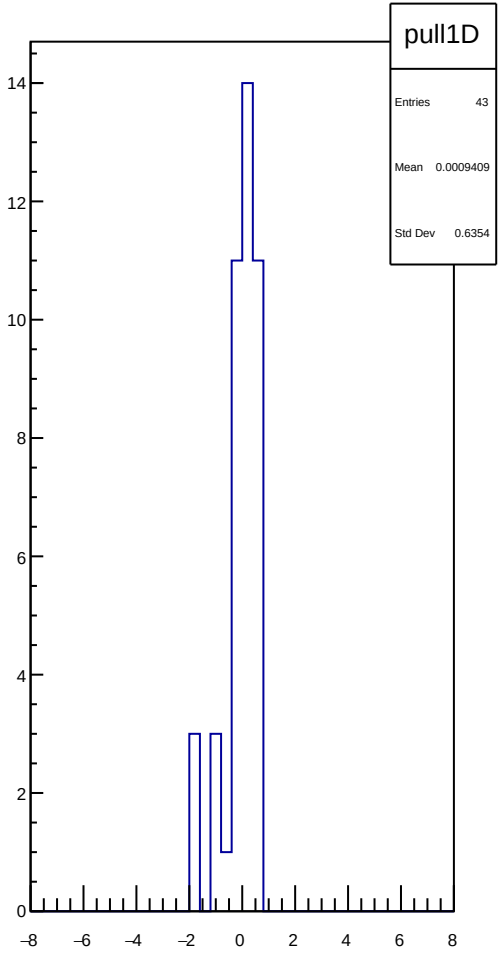

pull1D
Entries 43
Mean 0.05157
Std Dev 0.7018
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

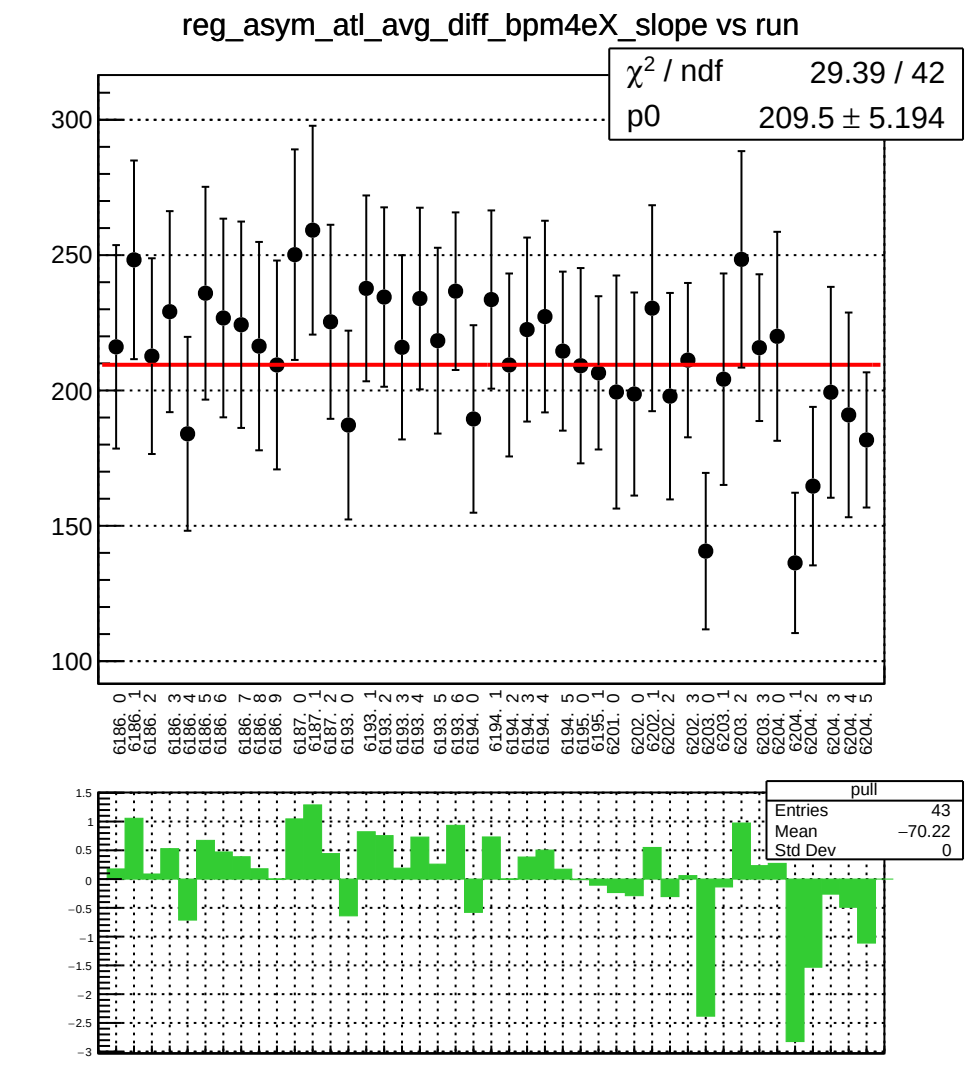

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 16.33 / 42
p0 160.3 ± 14.27
500
400
300
200
100
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −125.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.02913
Std Dev 0.6155
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

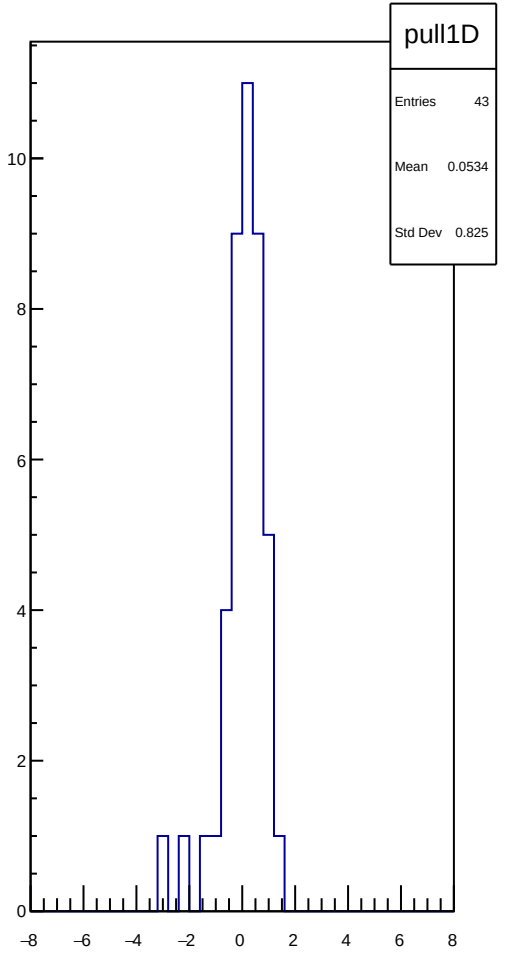

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 11.96 / 42
p0 −250.1± 1.233
−225
−230
−235
−240
−245
−250
−255
−260
−265
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −157
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.01712
Std Dev 0.5271
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

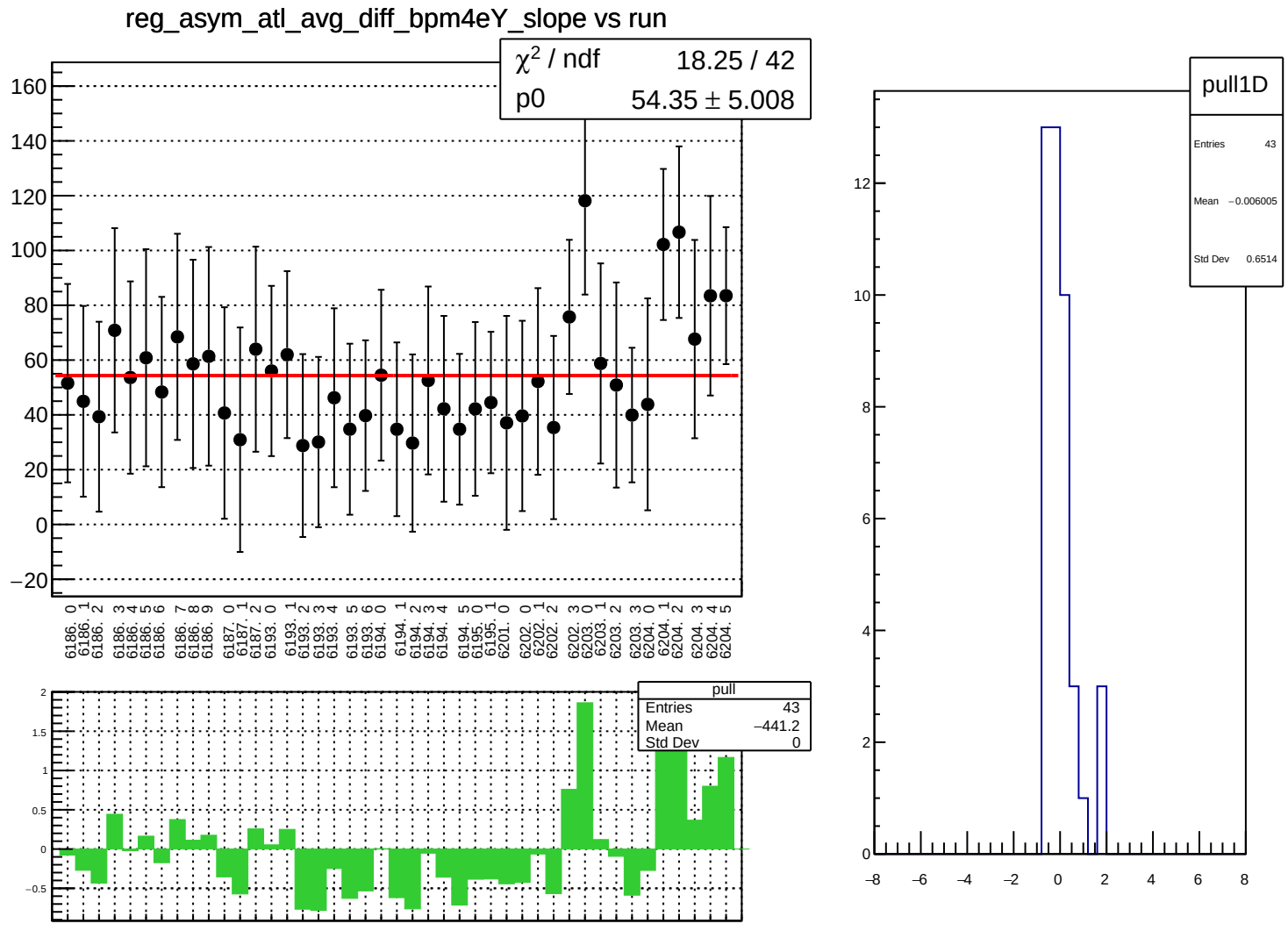

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 28 / 42
p0 −182.2 ± 4.757
pull
Entries 43
Mean −74.41
Std Dev 0
pull1D
Entries 43
Mean −0.04932
Std Dev 0.8055

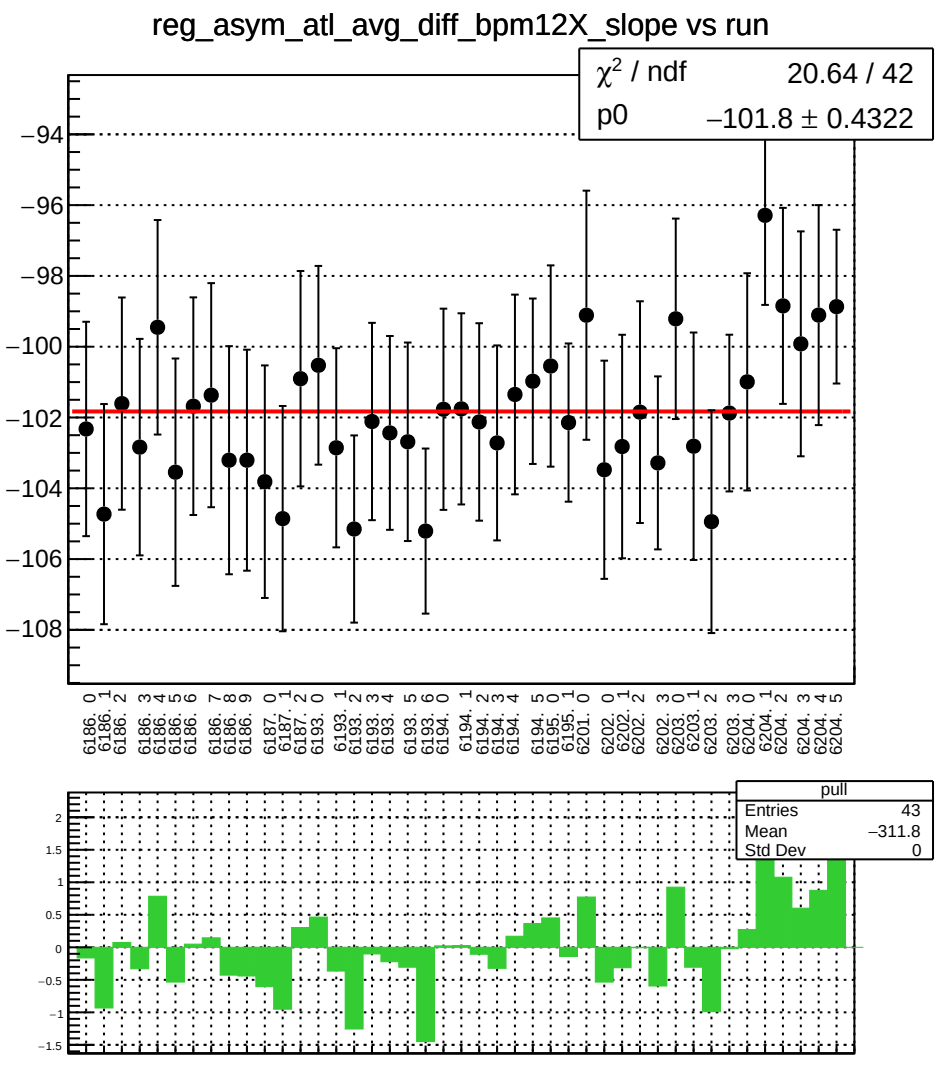

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.36 / 42
p0 −1.774 ± 4.453
pull
Entries 43
Mean −2832
Std Dev 0

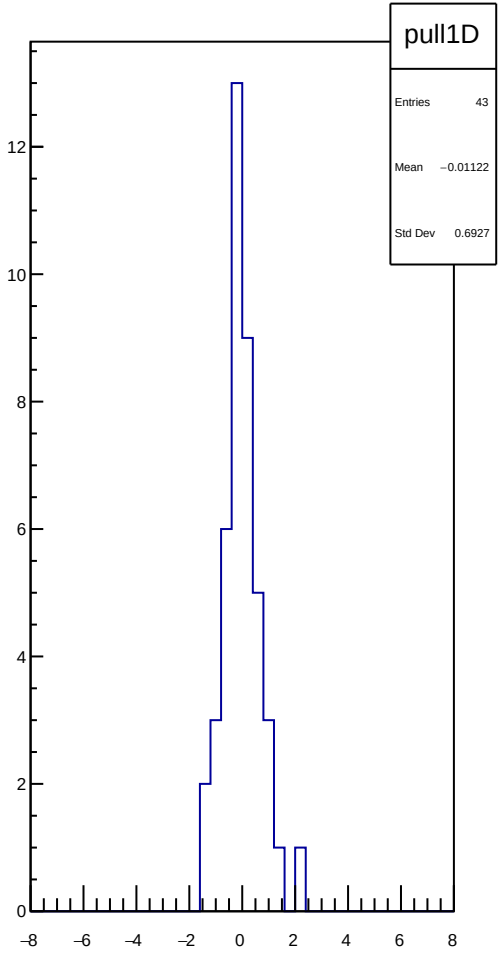

pull1D
Entries 43
Mean 0.0009409
Std Dev 0.6354

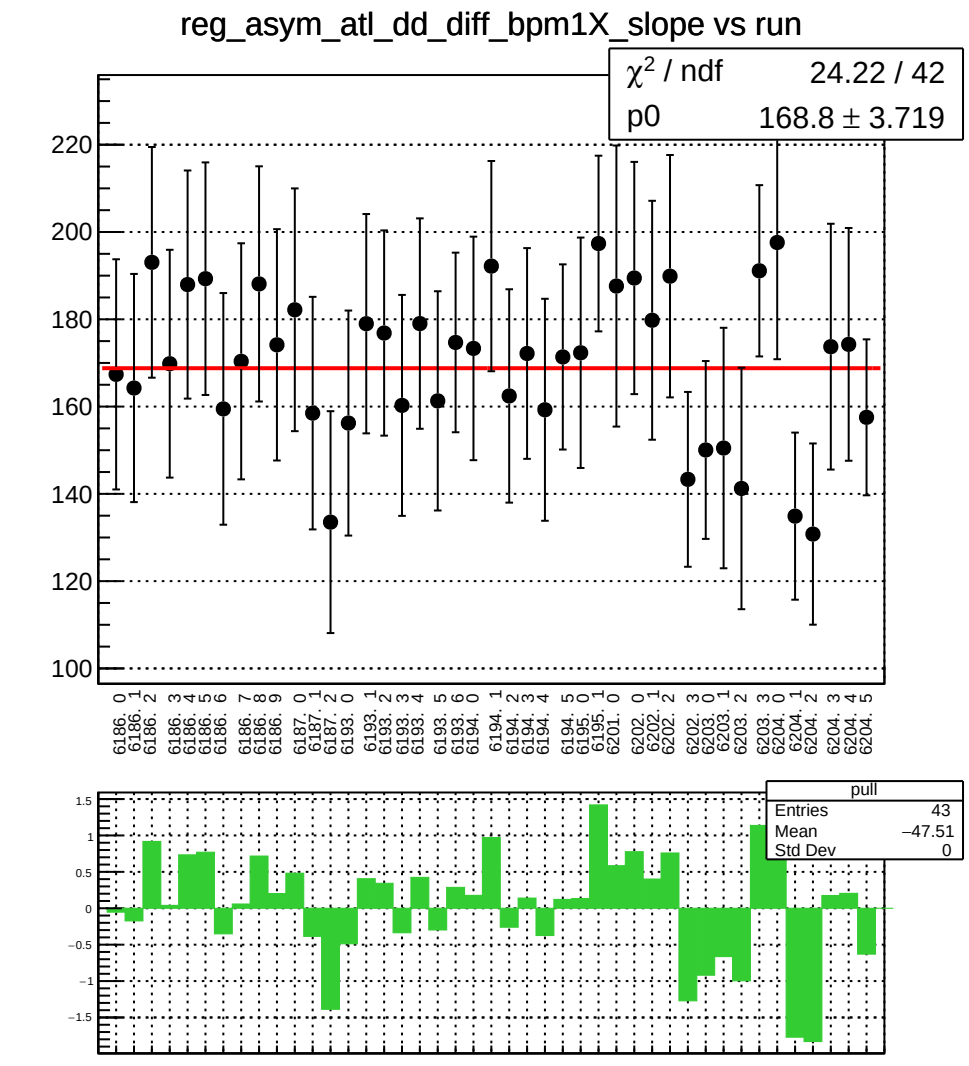

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.39 / 42
p0 209.5 ± 5.194
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −70.22
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

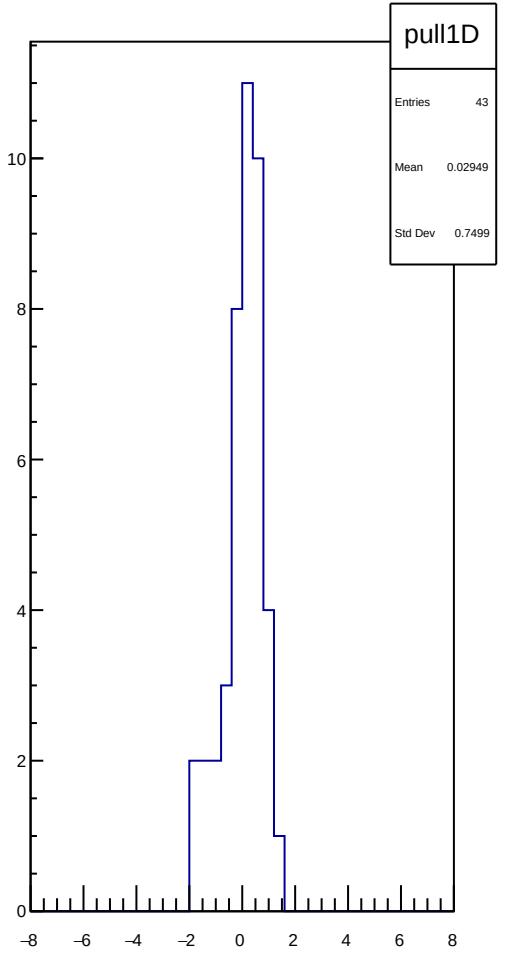

pull1D
Entries 43
Mean 0.0534
Std Dev 0.825
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

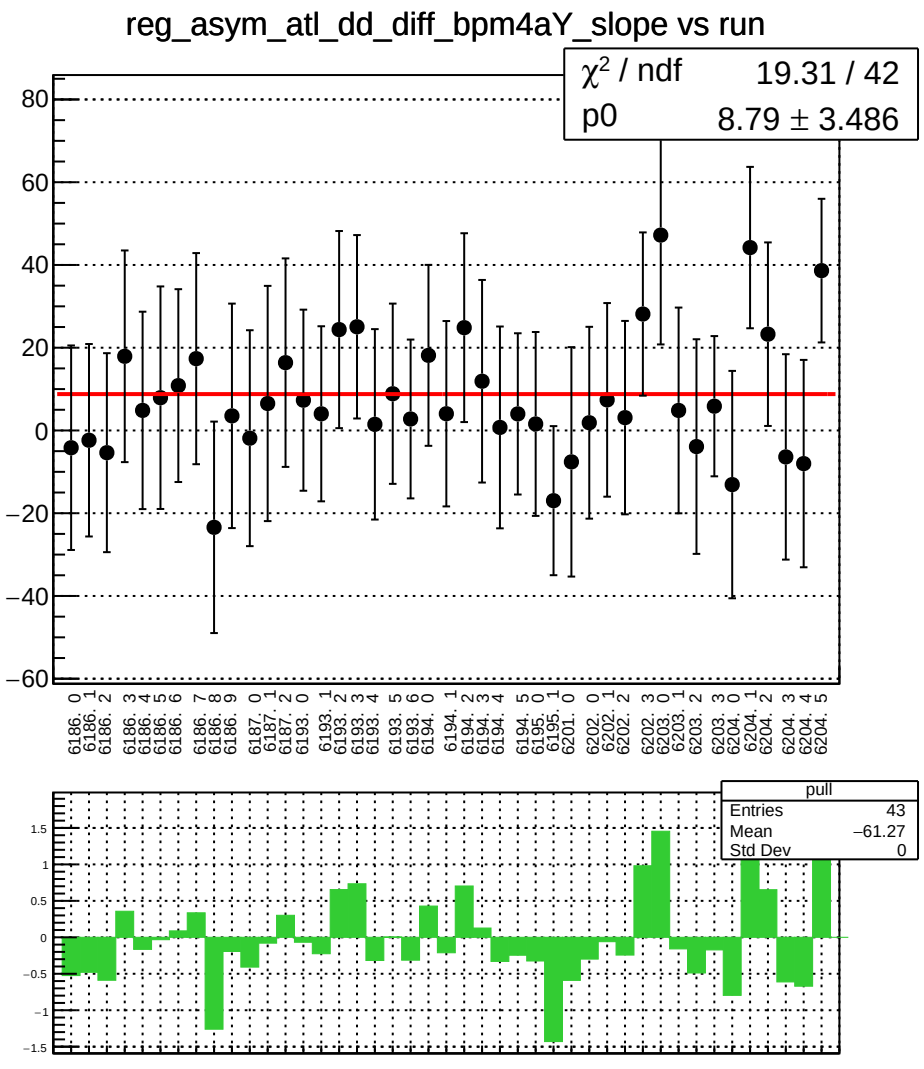

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.25 / 42
p0 54.35 ± 5.008
pull
Entries 43
Mean −441.2
Std Dev 0
pull1D
Entries 43
Mean −0.006005
Std Dev 0.6514

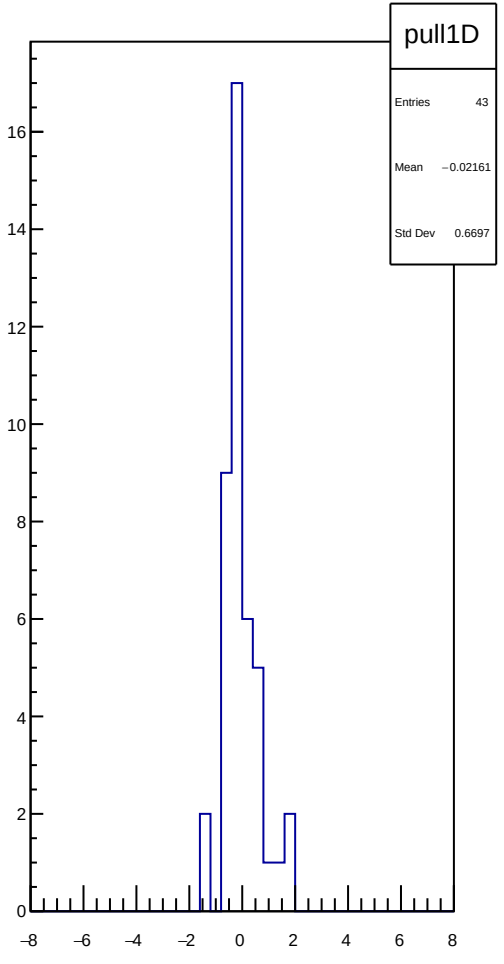

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 20.64 / 42
p0 −101.8 ± 0.4322
pull
Entries 43
Mean −311.8
Std Dev 0

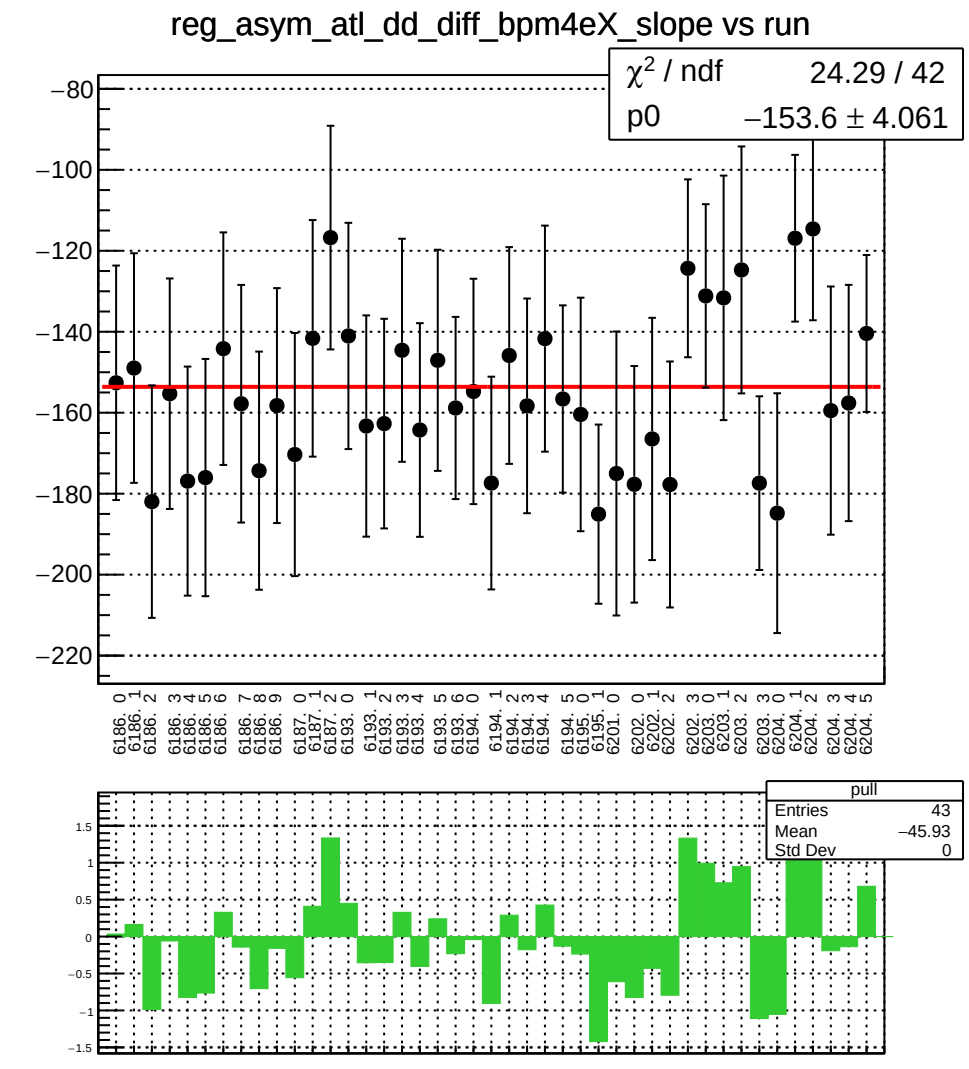

pull1D
Entries 43
Mean −0.01122
Std Dev 0.6927

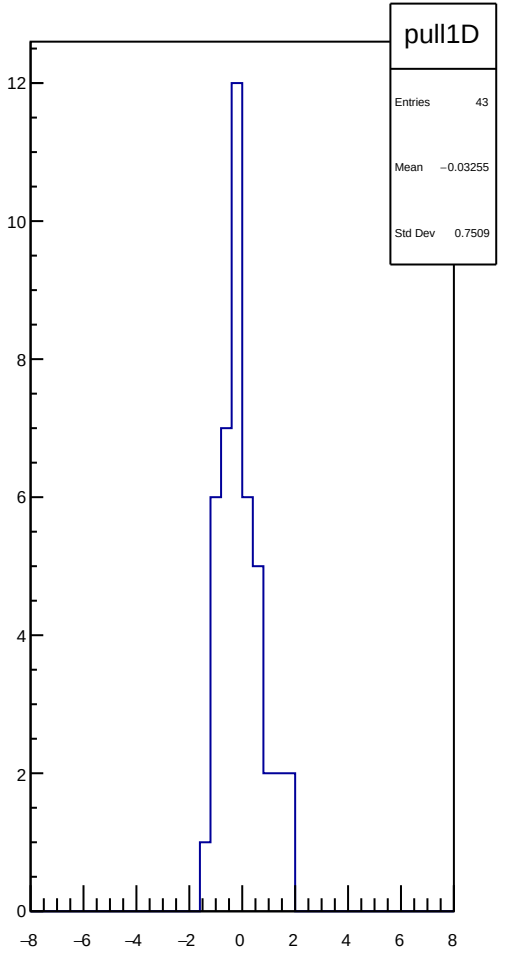

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 24.22 / 42
p0 168.8 ± 3.719
220
200
180
160
140
120
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −47.51
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

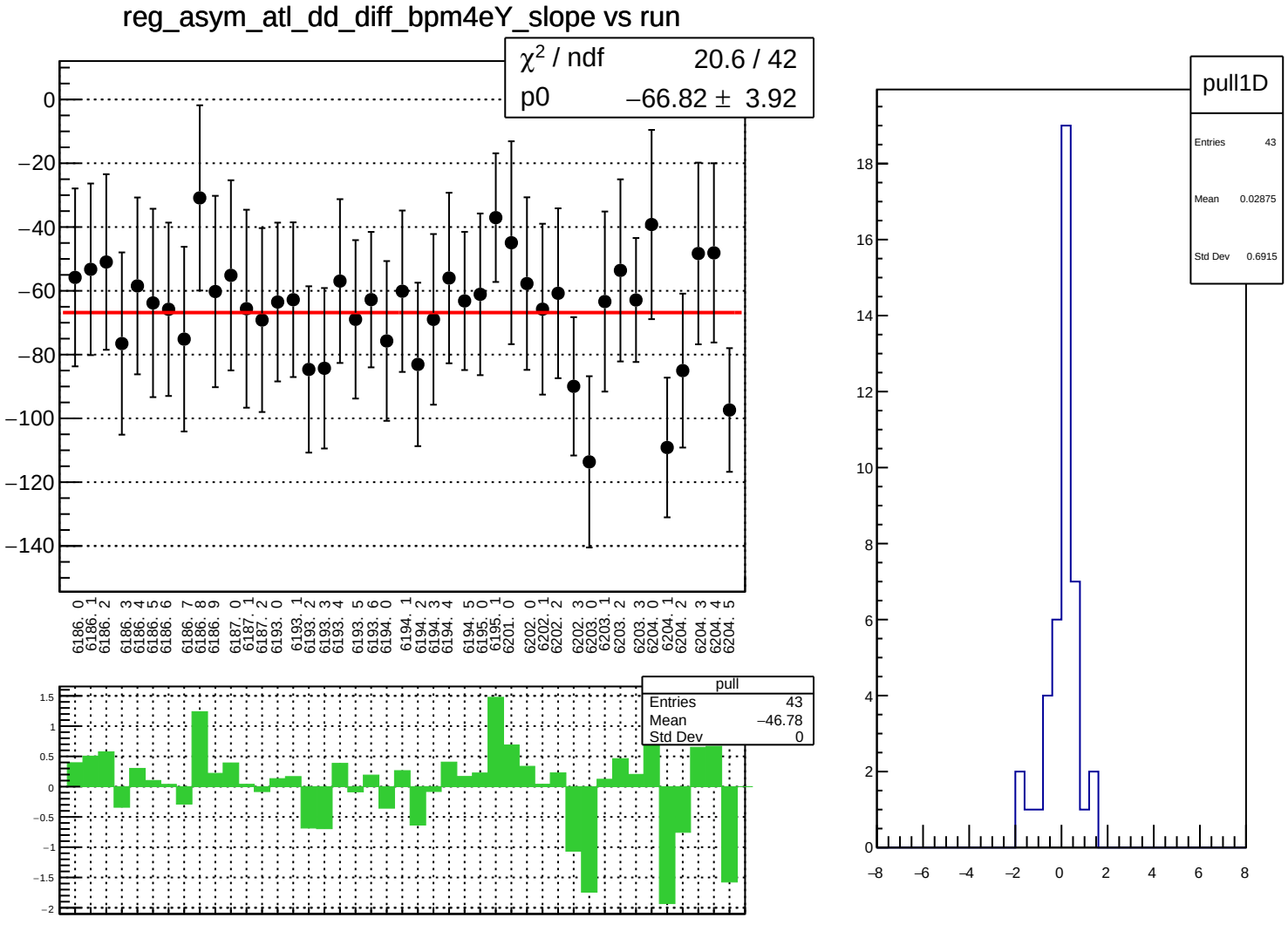

pull1D
Entries 43
Mean 0.02949
Std Dev 0.7499
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

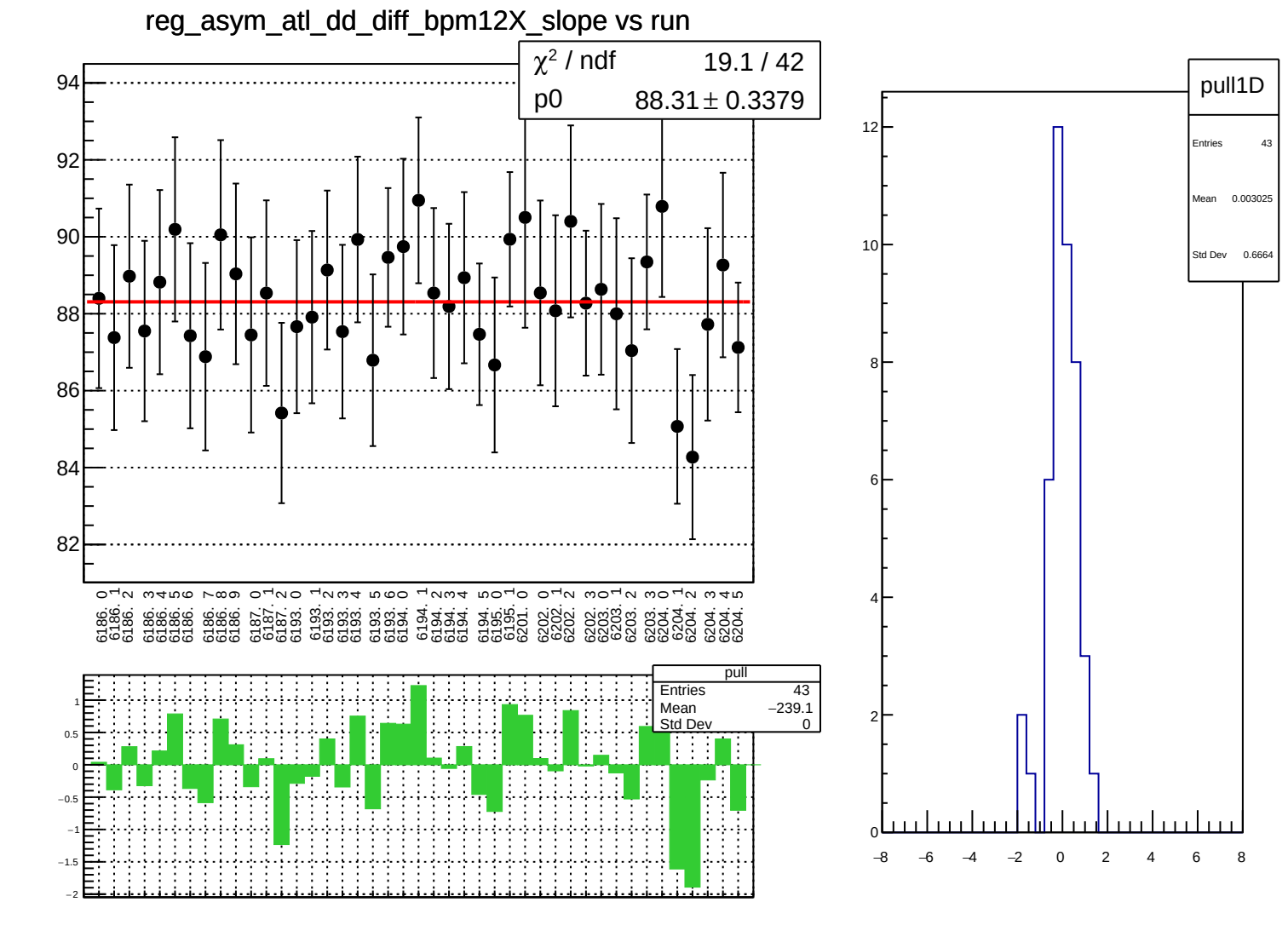

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.31 / 42
p0 8.79 ± 3.486
pull
Entries 43
Mean −61.27
Std Dev 0

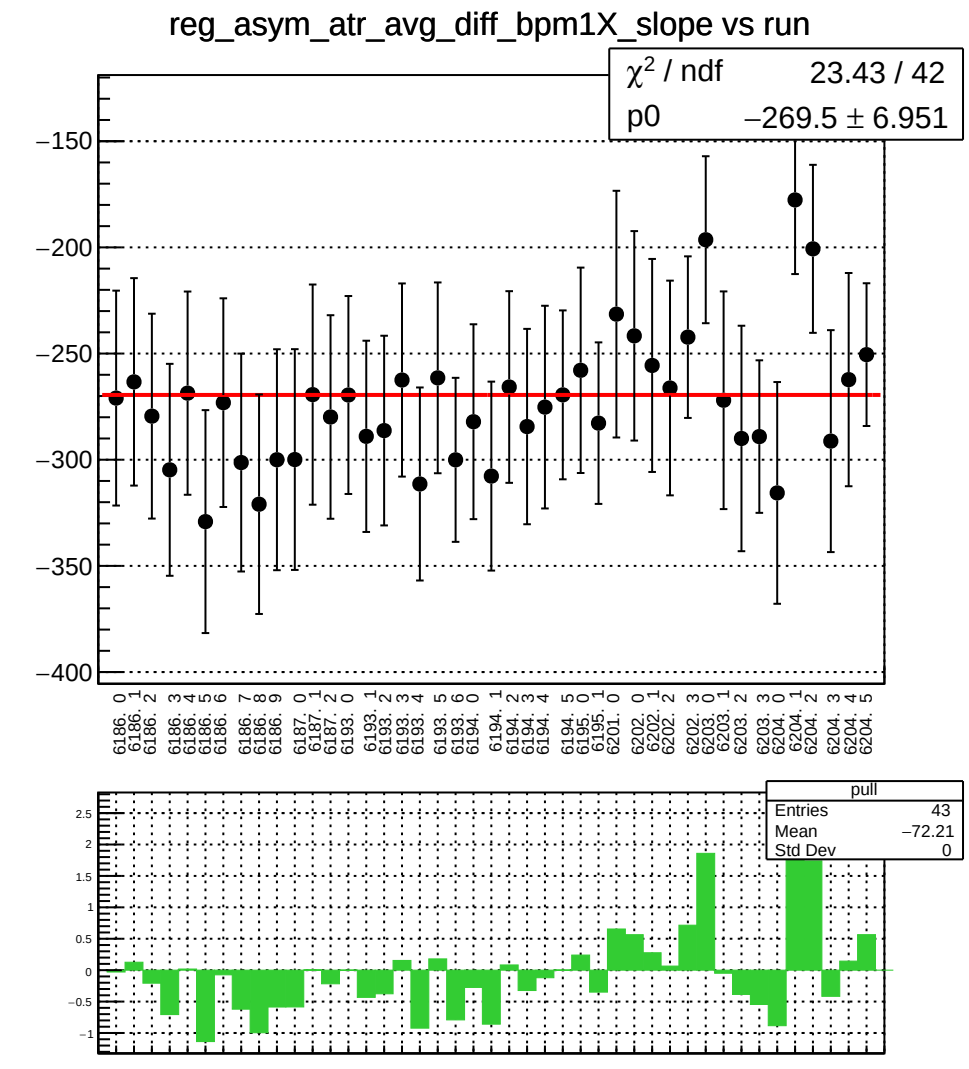

pull1D
Entries 43
Mean −0.02161
Std Dev 0.6697

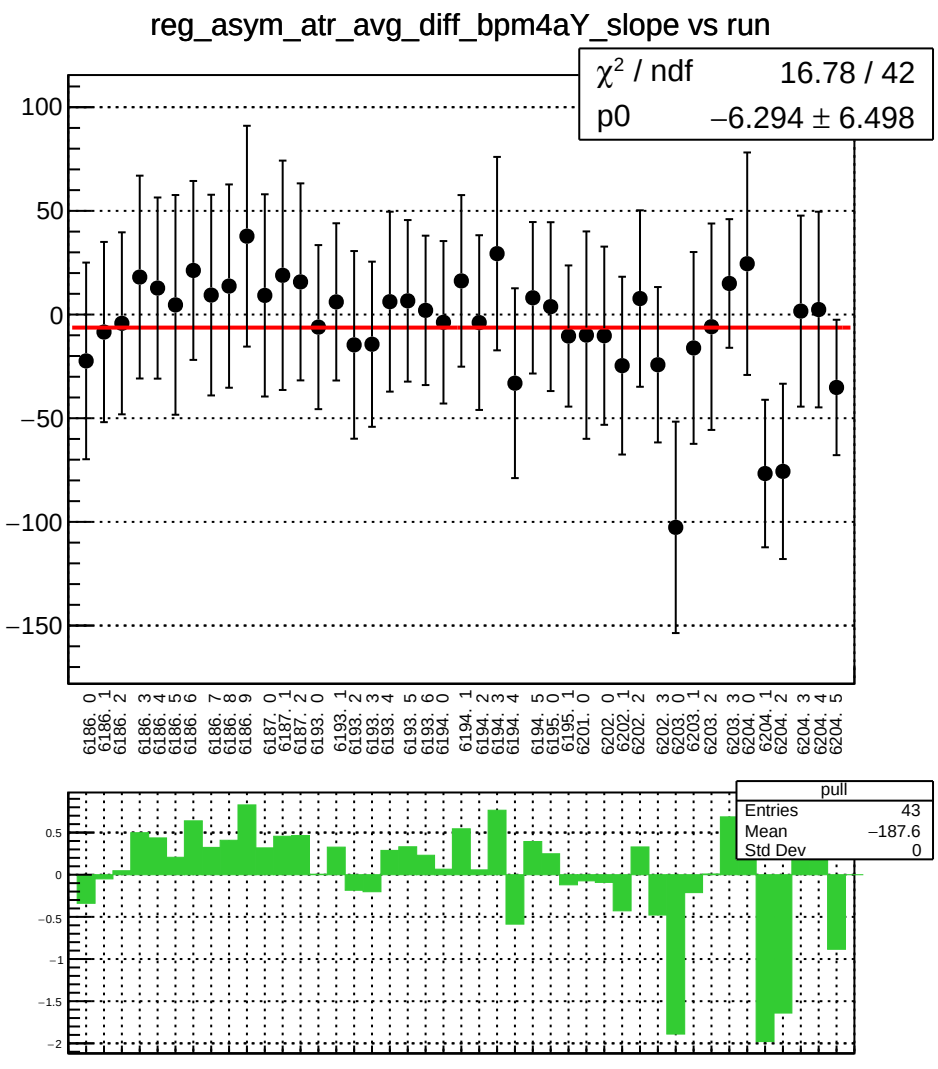

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.29 / 42
p0 −153.6 ± 4.061
−80
−100
−120
−140
−160
−180
−200
−220
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −45.93
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

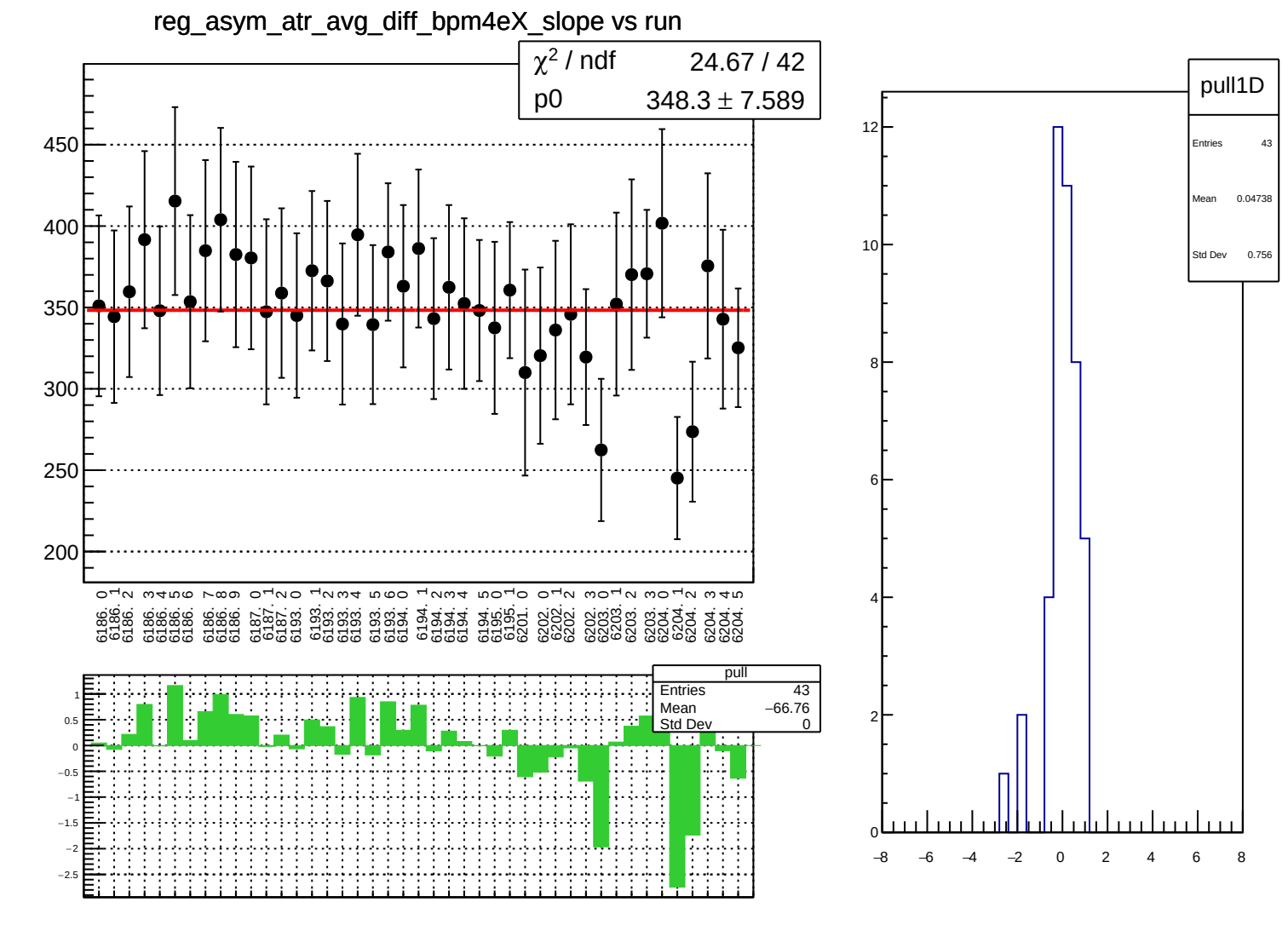

pull1D
Entries 43
Mean −0.03255
Std Dev 0.7509
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

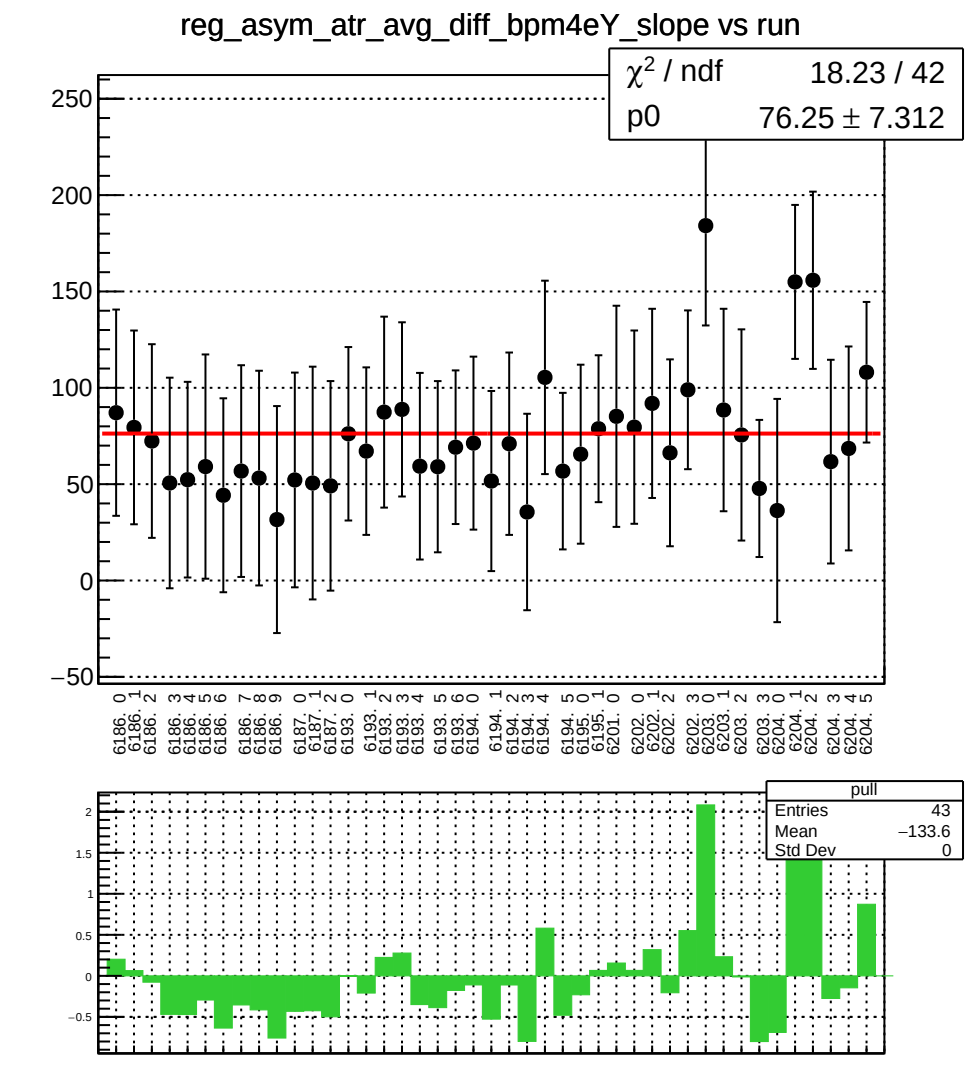

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.6 / 42
p0 −66.82 ± 3.92
0
−20
−40
−60
−80
−100
−120
−140
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −46.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02875
Std Dev 0.6915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

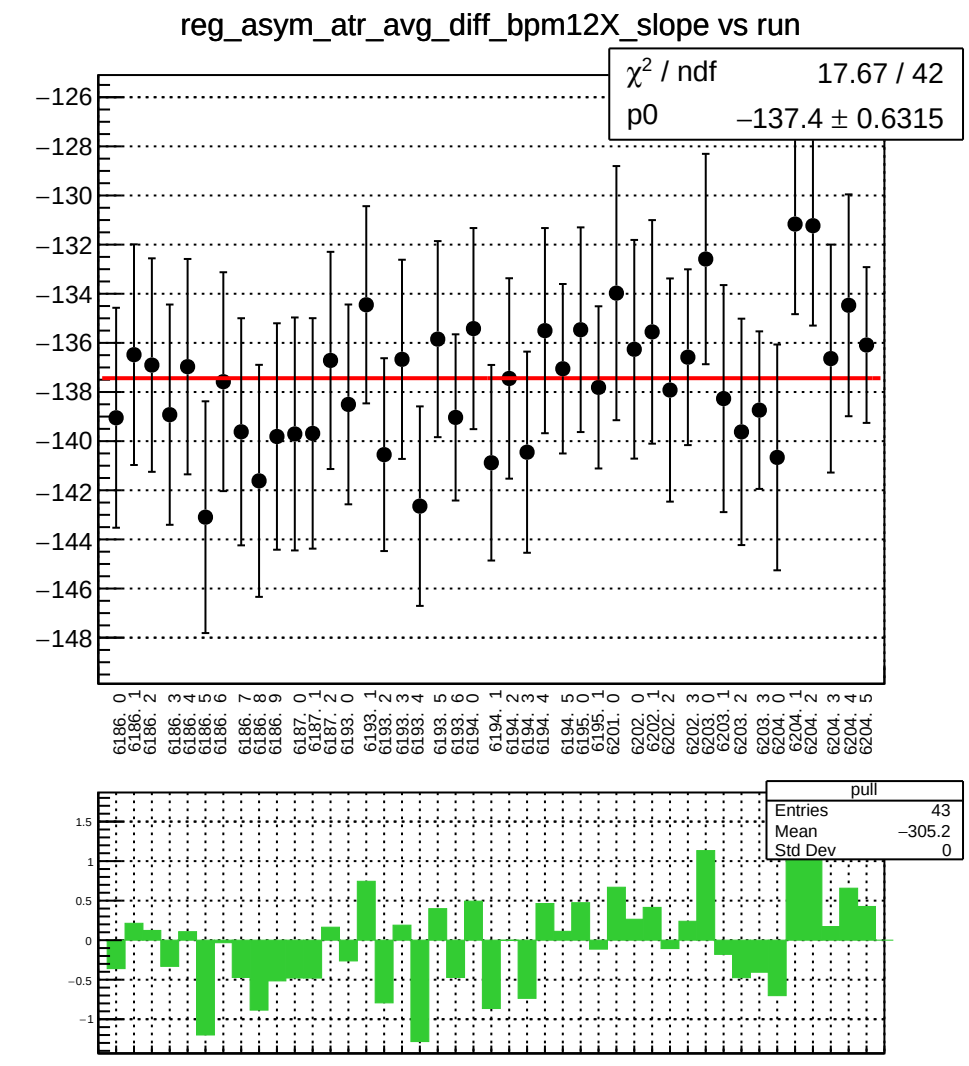

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 19.1 / 42
p0 88.31 ± 0.3379
pull
Entries 43
Mean −239.1
Std Dev 0
pull1D
Entries 43
Mean 0.003025
Std Dev 0.6664

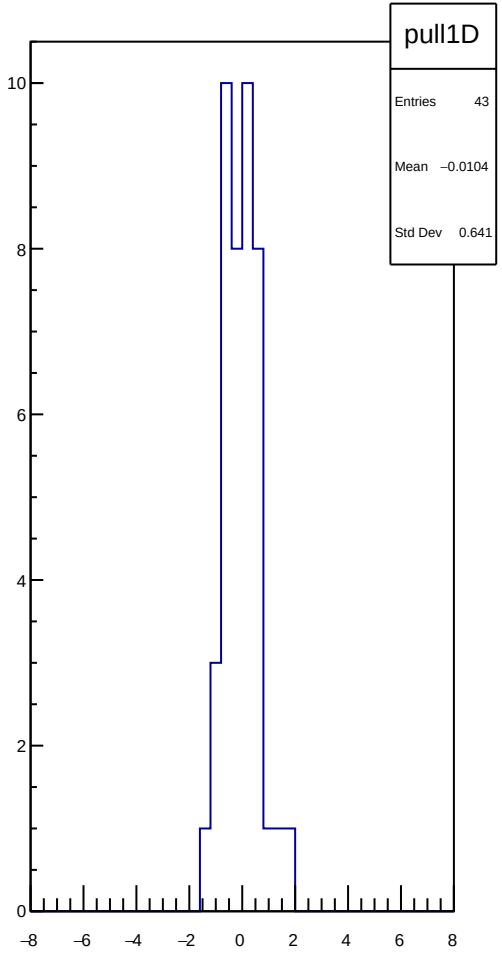

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 23.43 / 42
p0 −269.5 ± 6.951
−150
−200
−250
−300
−350
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −72.21
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.04352
Std Dev 0.7369
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

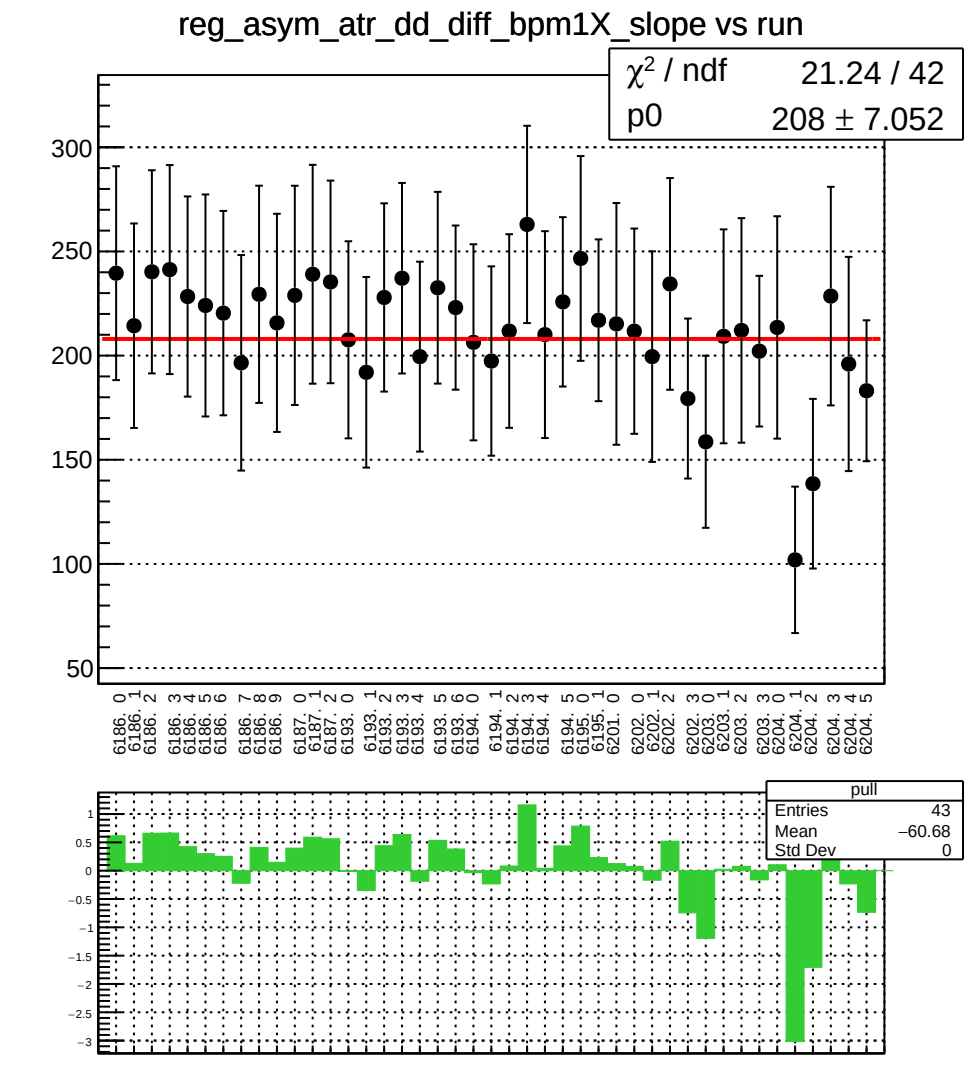

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.78 / 42
p0 −6.294 ± 6.498
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −187.6
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.01588
Std Dev 0.6246
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

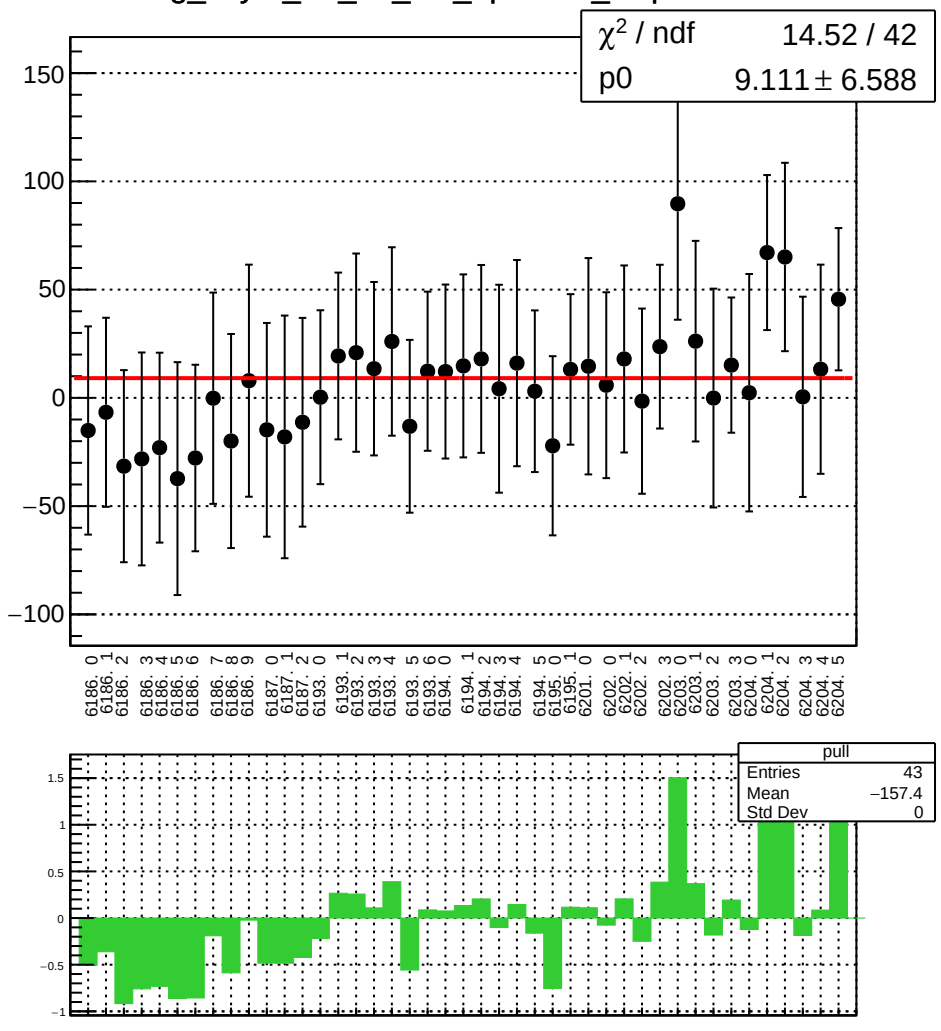

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.67 / 42
p0 348.3 ± 7.589
pull
Entries 43
Mean −66.76
Std Dev 0
pull1D
Entries 43
Mean 0.04738
Std Dev 0.756

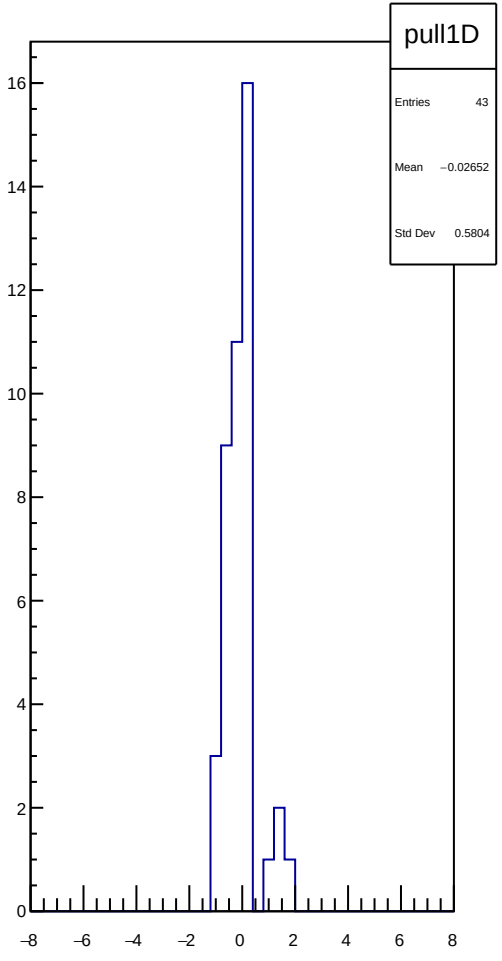

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.23 / 42
p0 76.25 ± 7.312
250
200
150
100
50
0
−50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −133.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.02202
Std Dev 0.6507
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

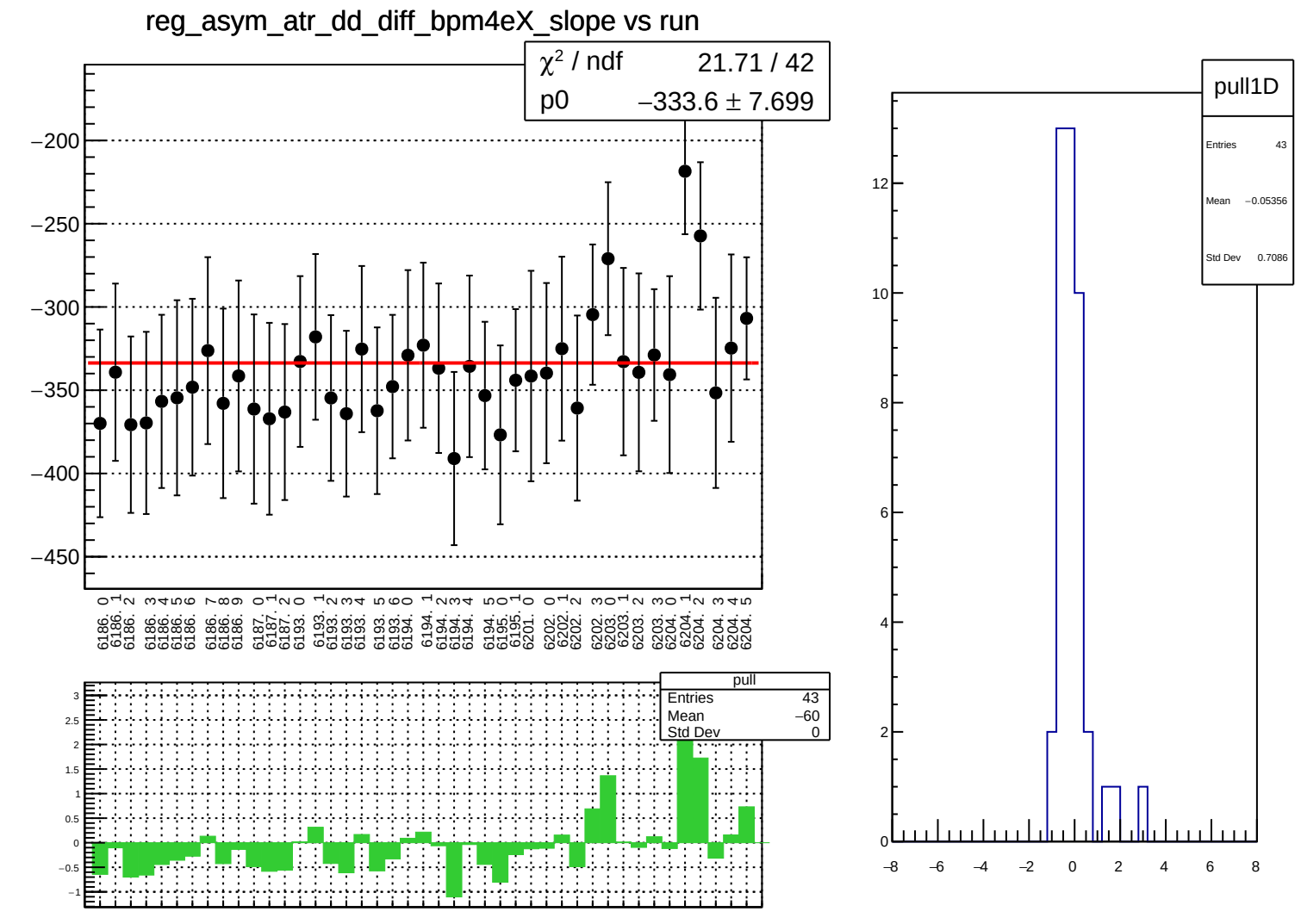

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 17.67 / 42
p0 −137.4 ± 0.6315
pull
Entries 43
Mean −305.2
Std Dev 0

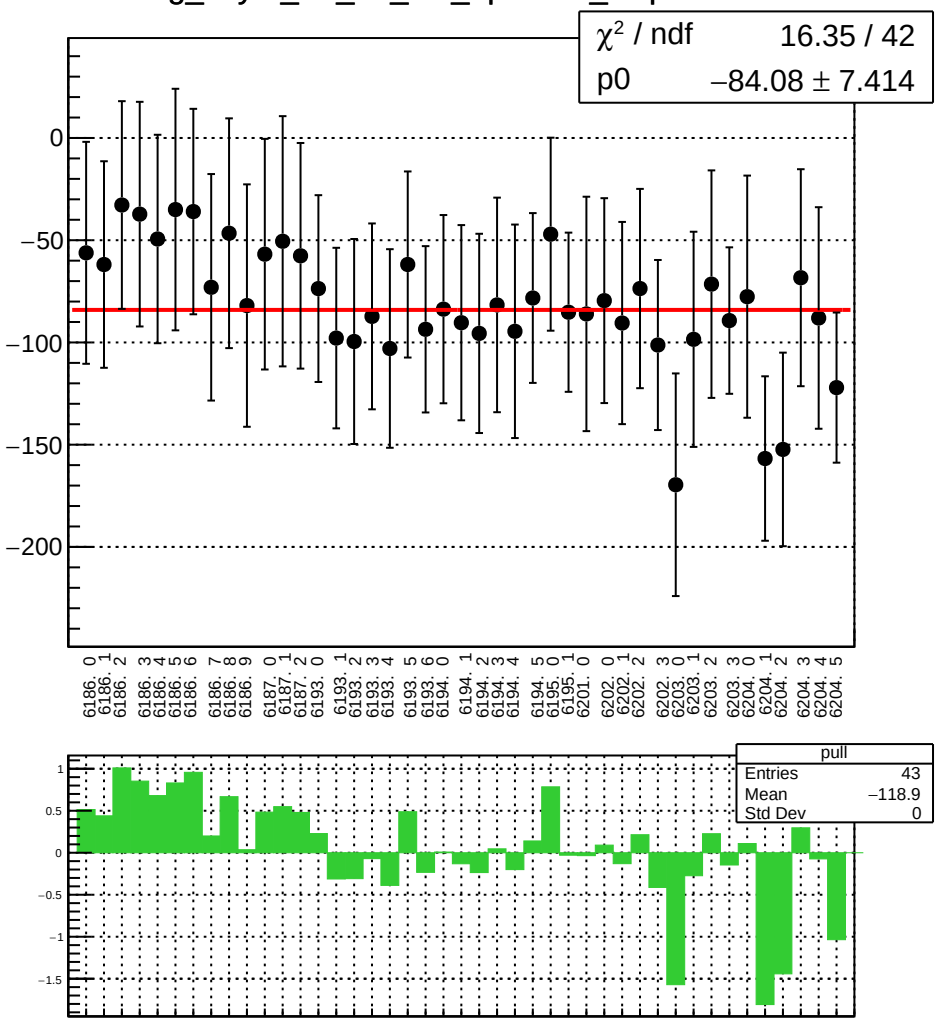

pull1D
Entries 43
Mean −0.0104
Std Dev 0.641

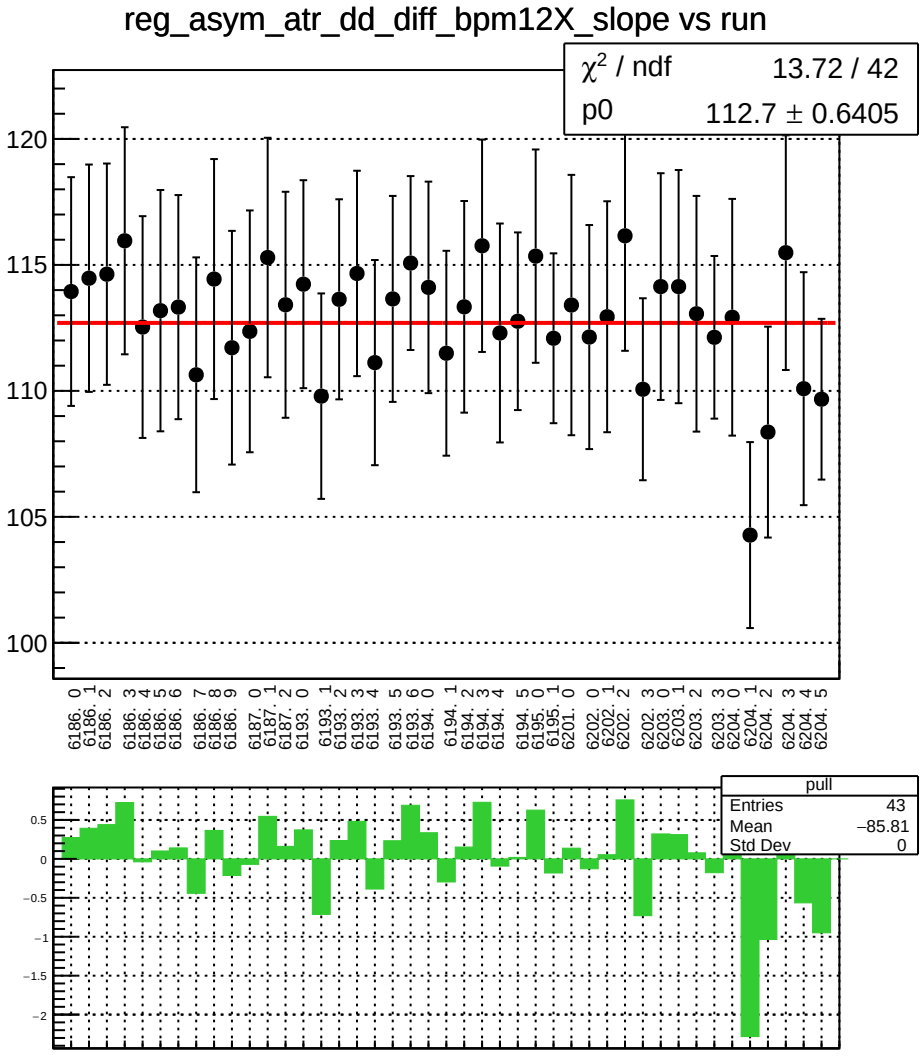

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 21.24 / 42
p0 208 ± 7.052
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −60.68
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 43
Mean 0.05148
Std Dev 0.701
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

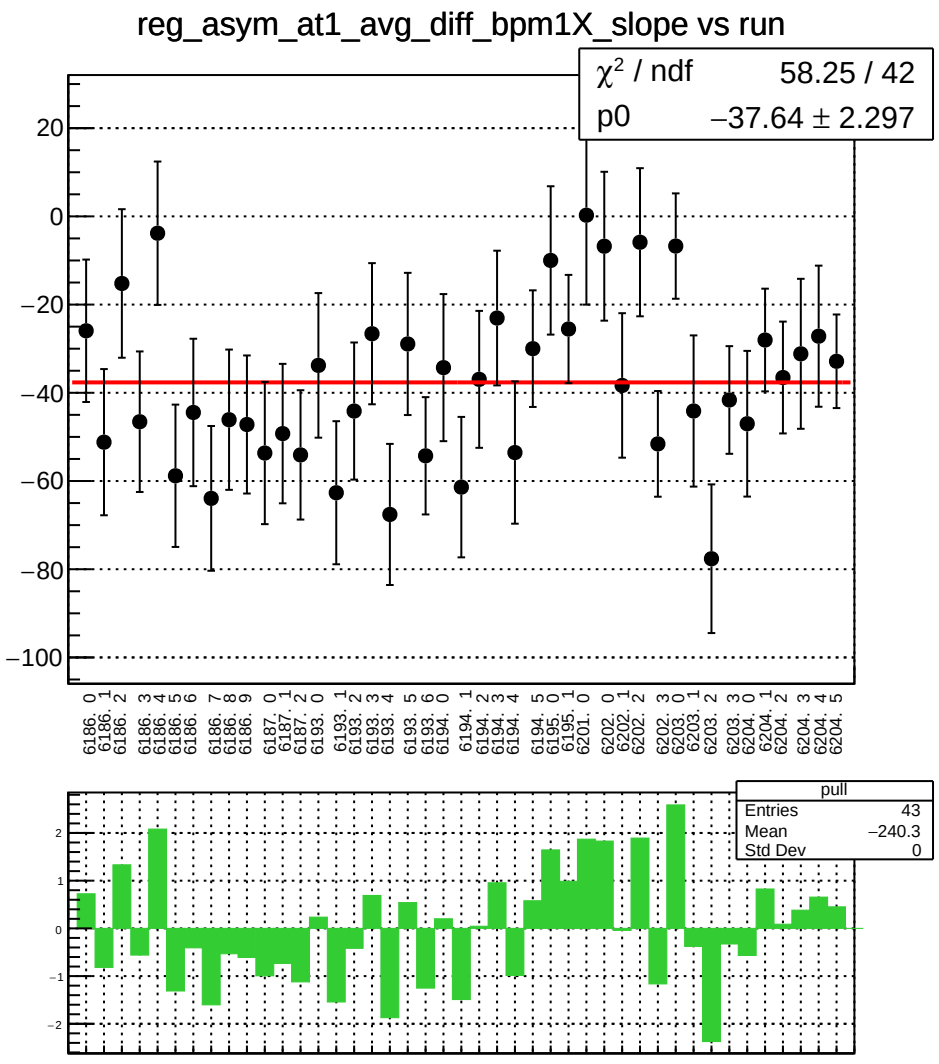

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.52 / 42
p0 9.111 ± 6.588
150
100
50
0
−50
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −157.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

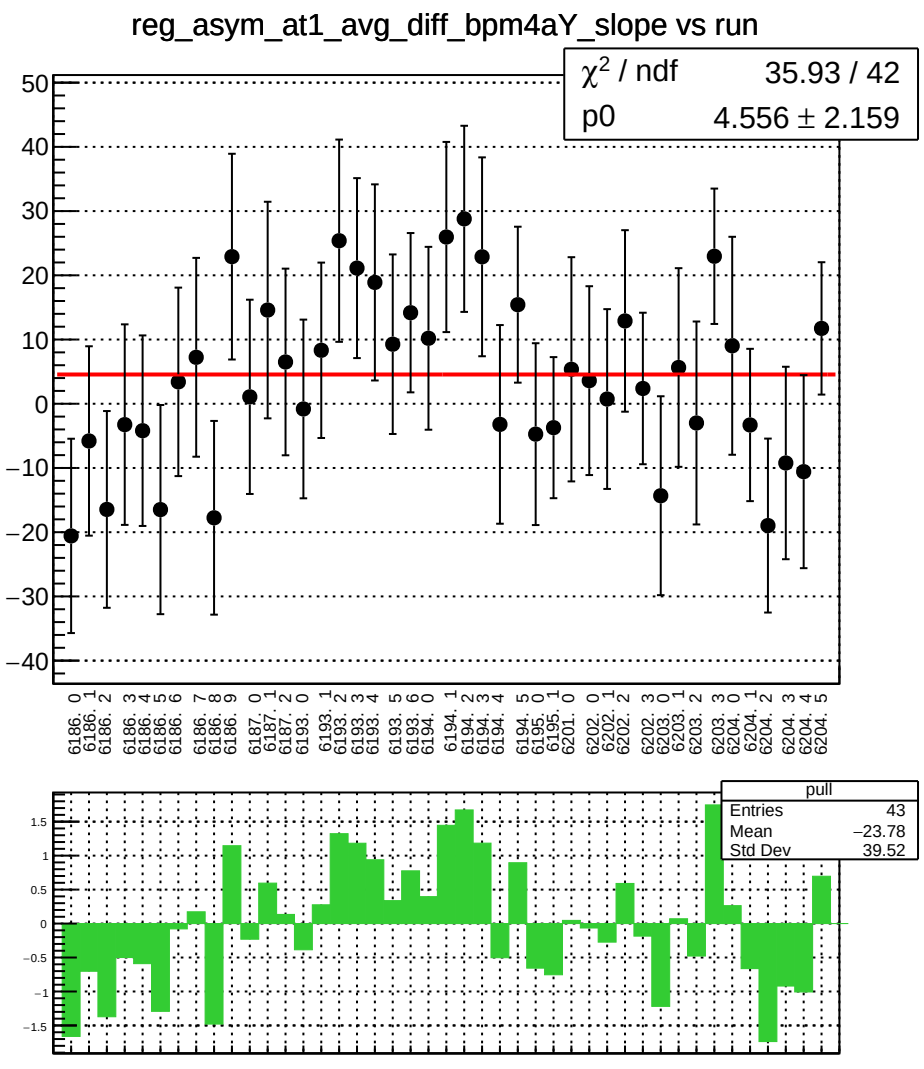

pull1D
Entries 43
Mean −0.02652
Std Dev 0.5804
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

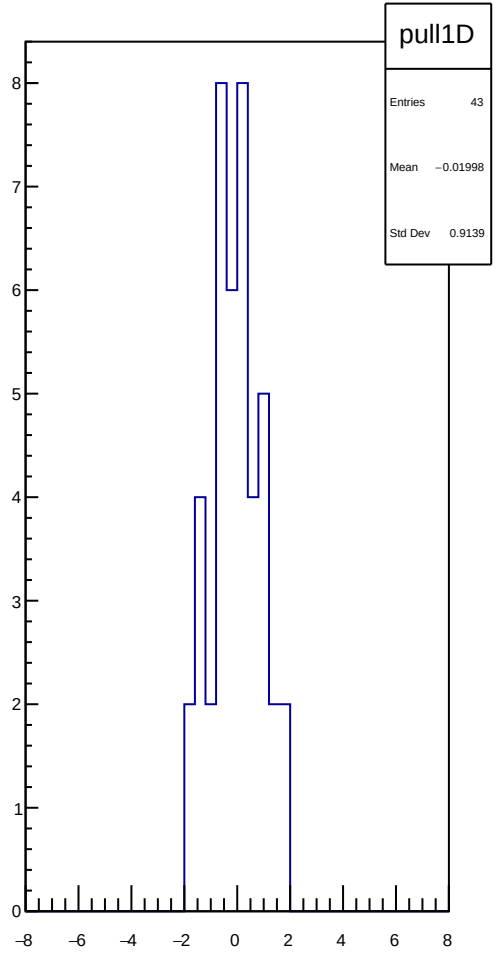

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.71 / 42
p0 −333.6 ± 7.699
−200
−250
−300
−350
−400
−450
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −60
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.05356
Std Dev 0.7086
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

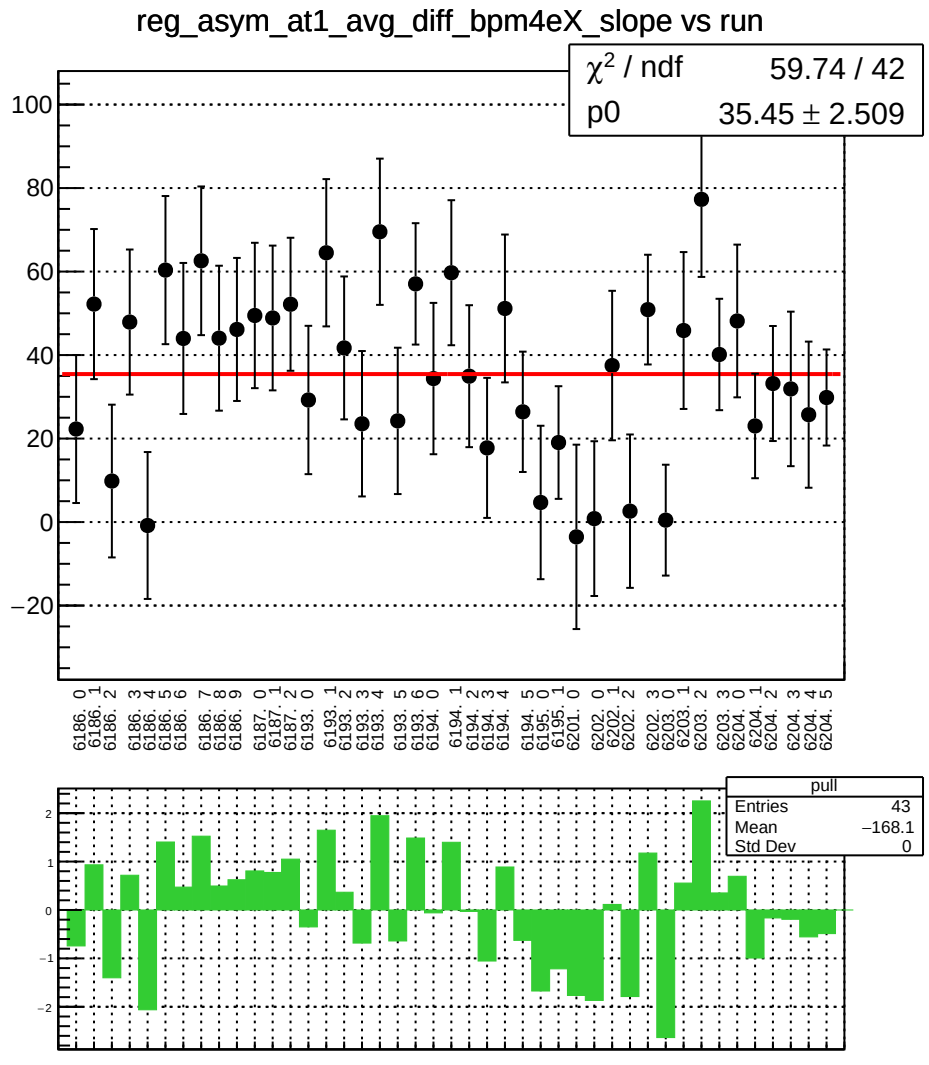

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.35 / 42
p0 −84.08 ± 7.414
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −118.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.03489
Std Dev 0.6156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

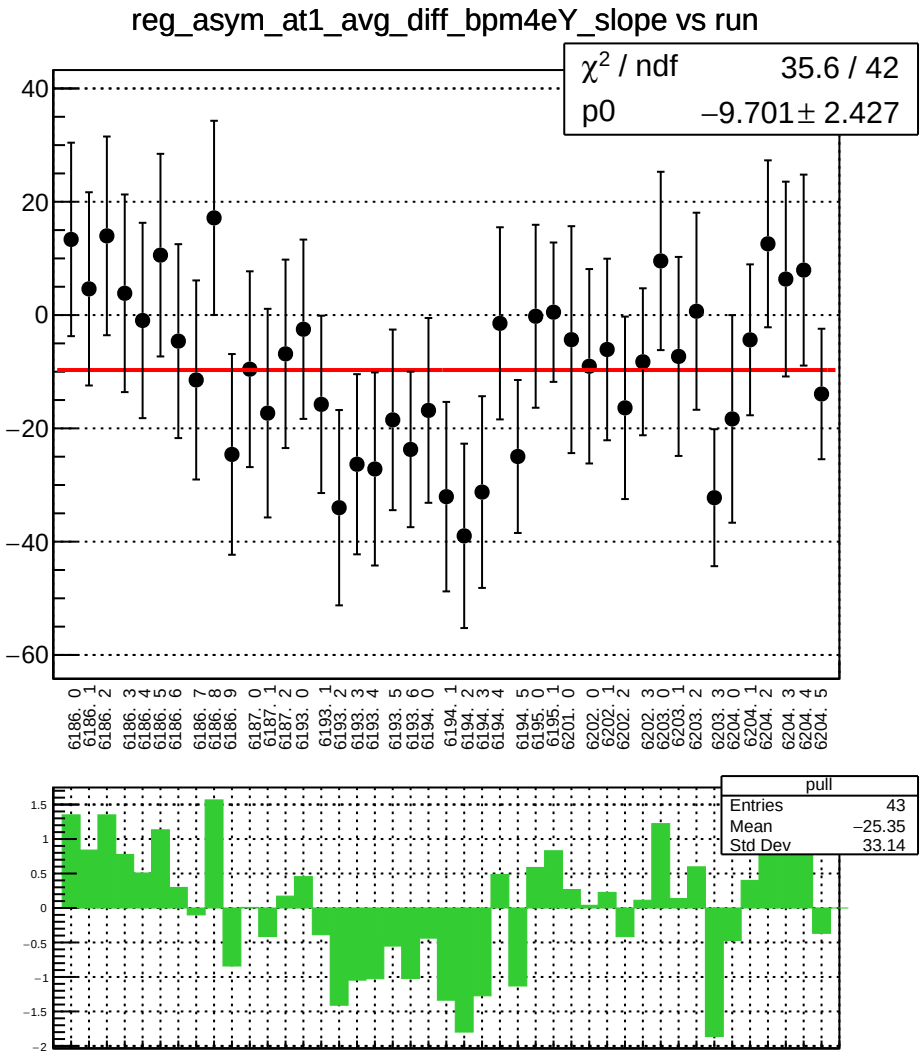

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 13.72 / 42
p0 112.7 ± 0.6405
120
115
110
105
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −85.81
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02377
Std Dev 0.5643
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

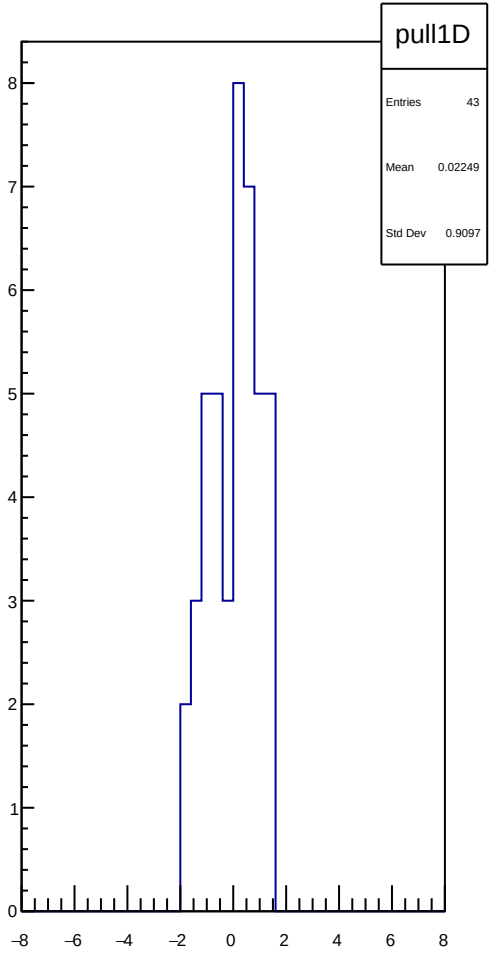

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 58.25 / 42
p0 −37.64 ± 2.297
20
0
−20
−40
−60
−80
−100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −240.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.01173
Std Dev 1.164
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

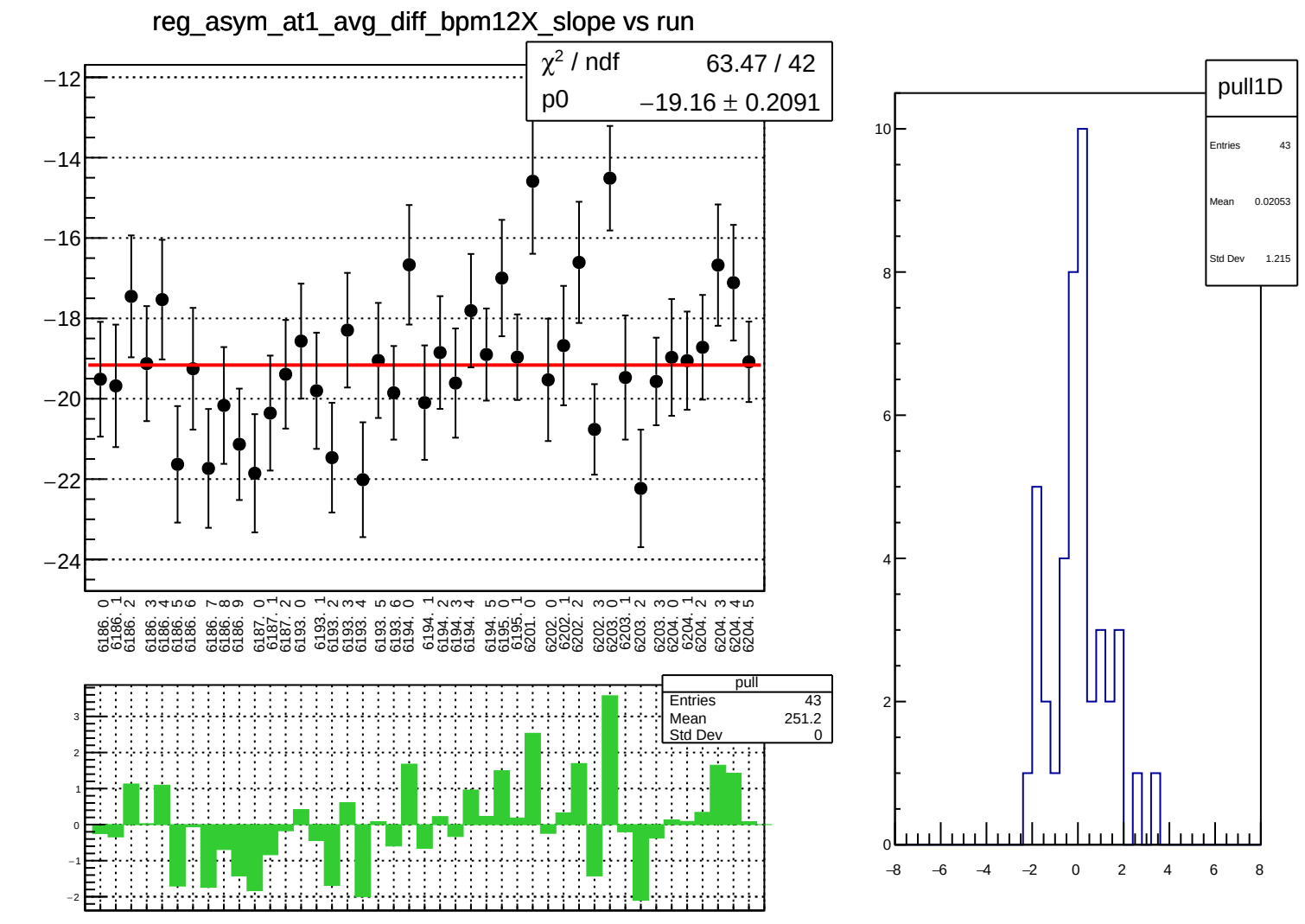

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.93 / 42
p0 4.556 ± 2.159
pull
Entries 43
Mean −23.78
Std Dev 39.52

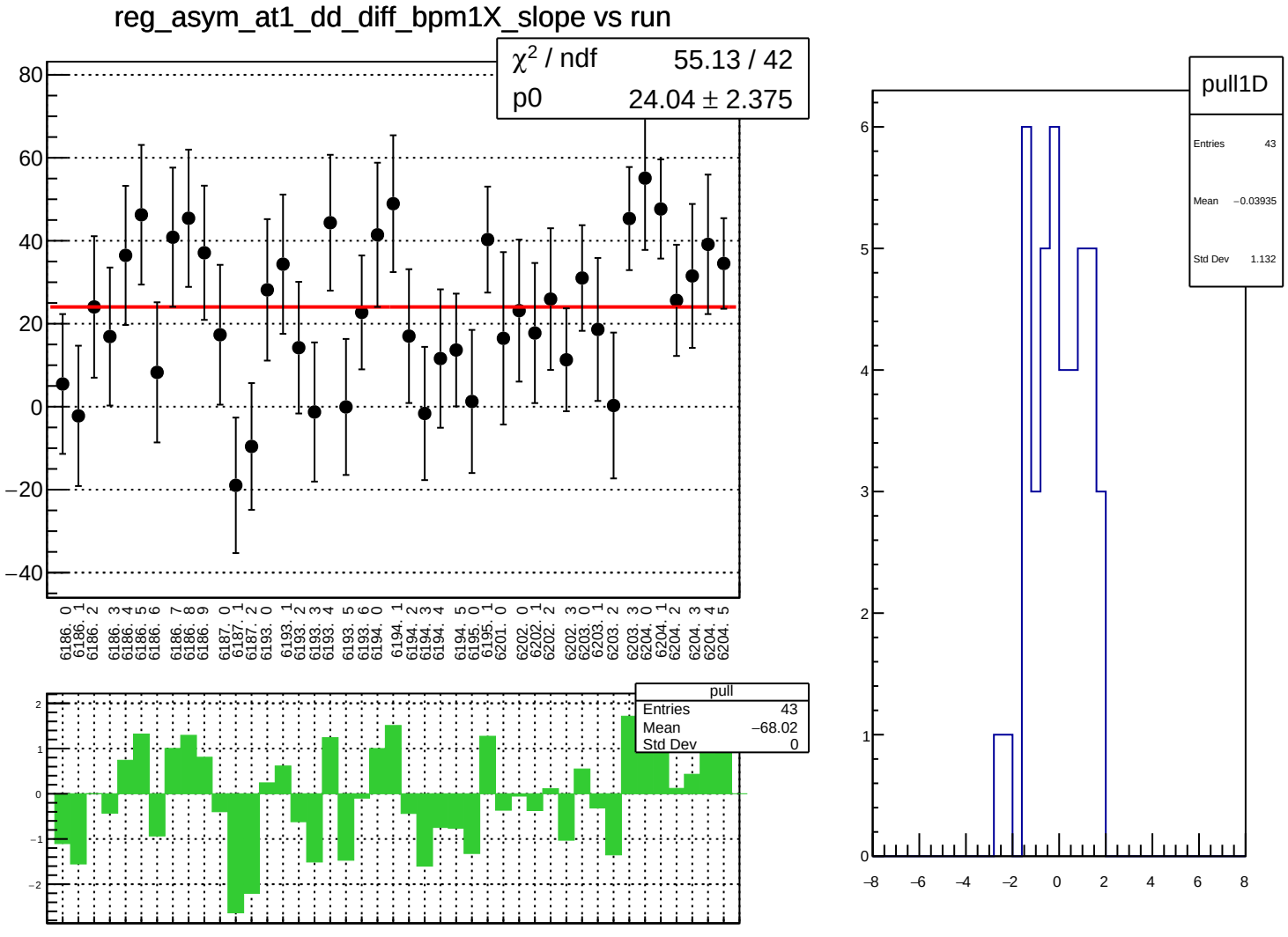

pull1D
Entries 43
Mean −0.01998
Std Dev 0.9139

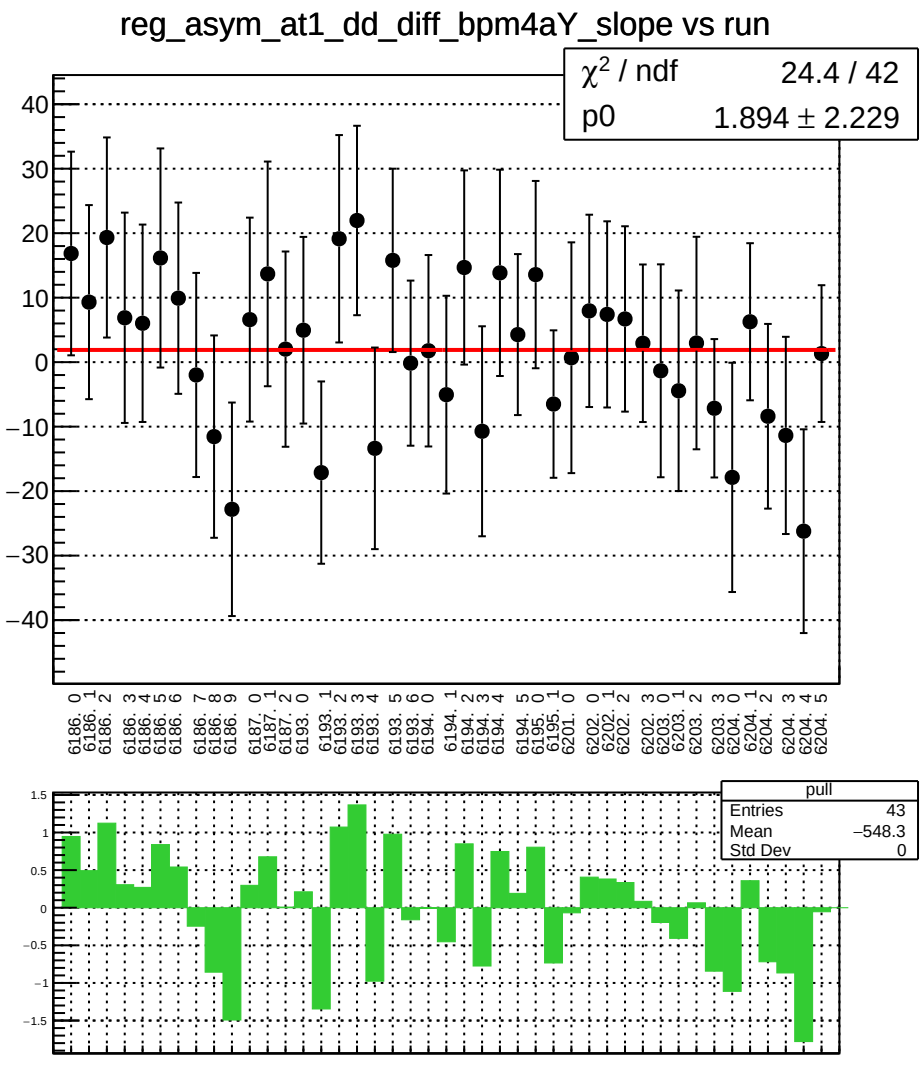

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 59.74 / 42
p0 35.45 ± 2.509
100
80
60
40
20
0
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −168.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.01614
Std Dev 1.179
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

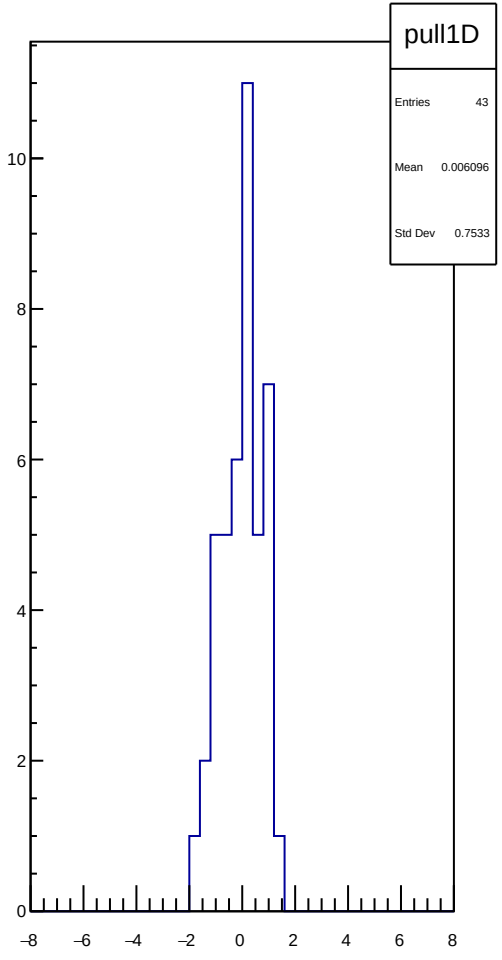

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.6 / 42
p0 −9.701 ± 2.427
pull
Entries 43
Mean −25.35
Std Dev 33.14

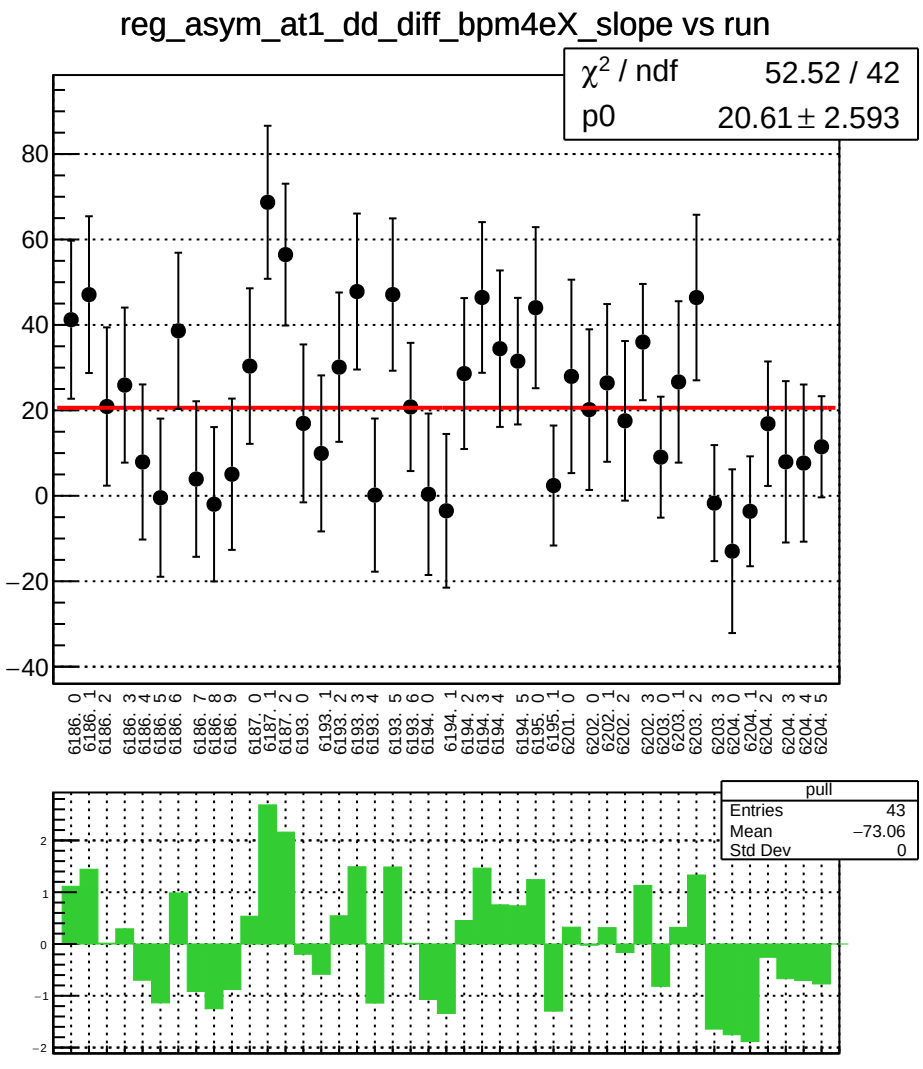

pull1D
Entries 43
Mean 0.02249
Std Dev 0.9097

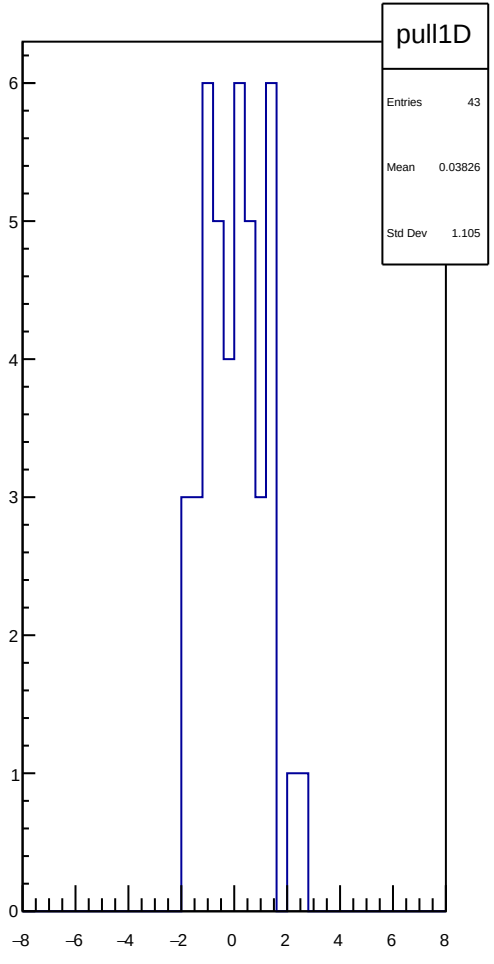

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 63.47 / 42
p0 −19.16 ± 0.2091
−12
−14
−16
−18
−20
−22
−24
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 251.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean 0.02053
Std Dev 1.215
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

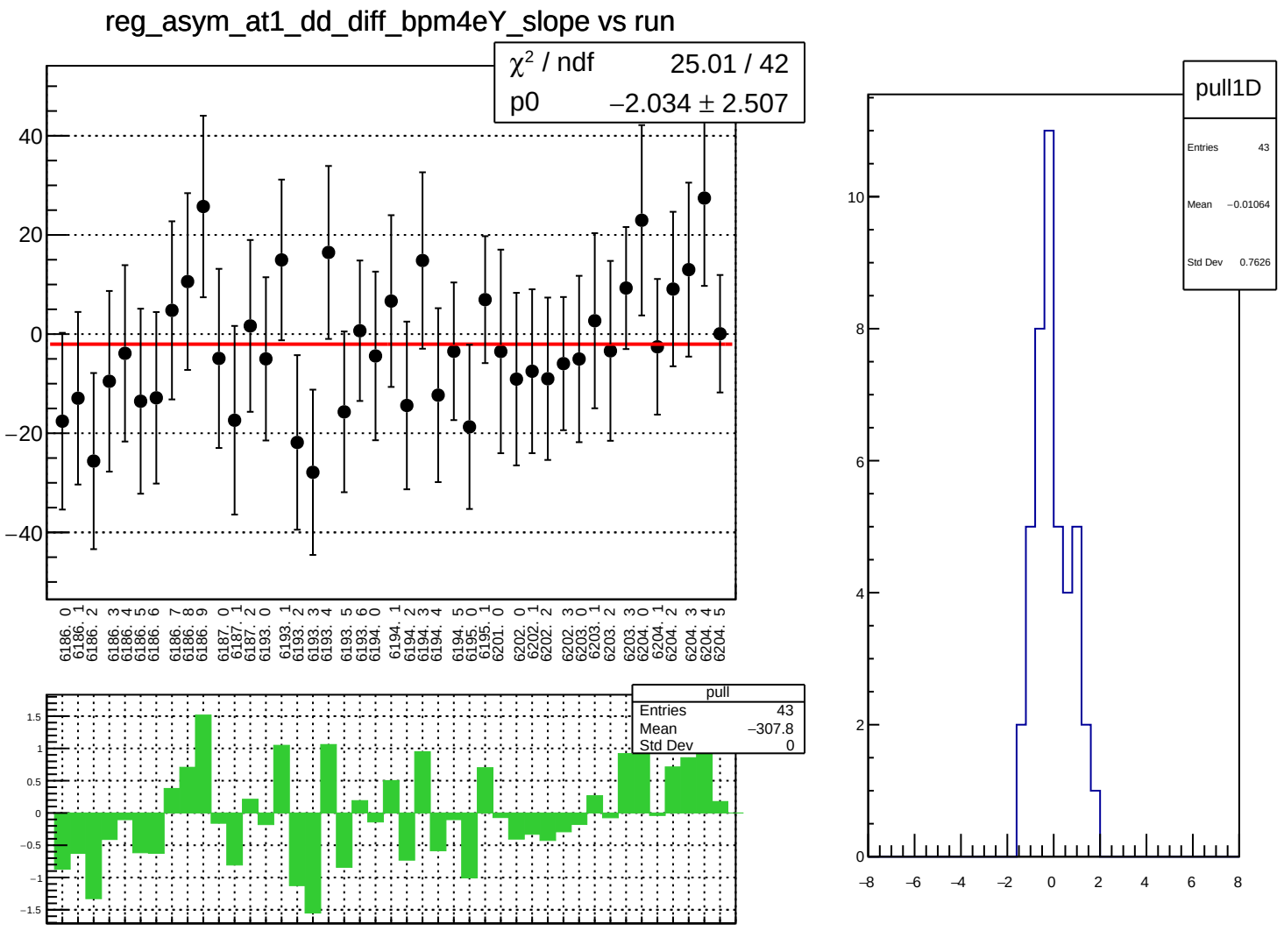

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 55.13 / 42
p0 24.04 ± 2.375
80
60
40
20
0
−20
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −68.02
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03935
Std Dev 1.132
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

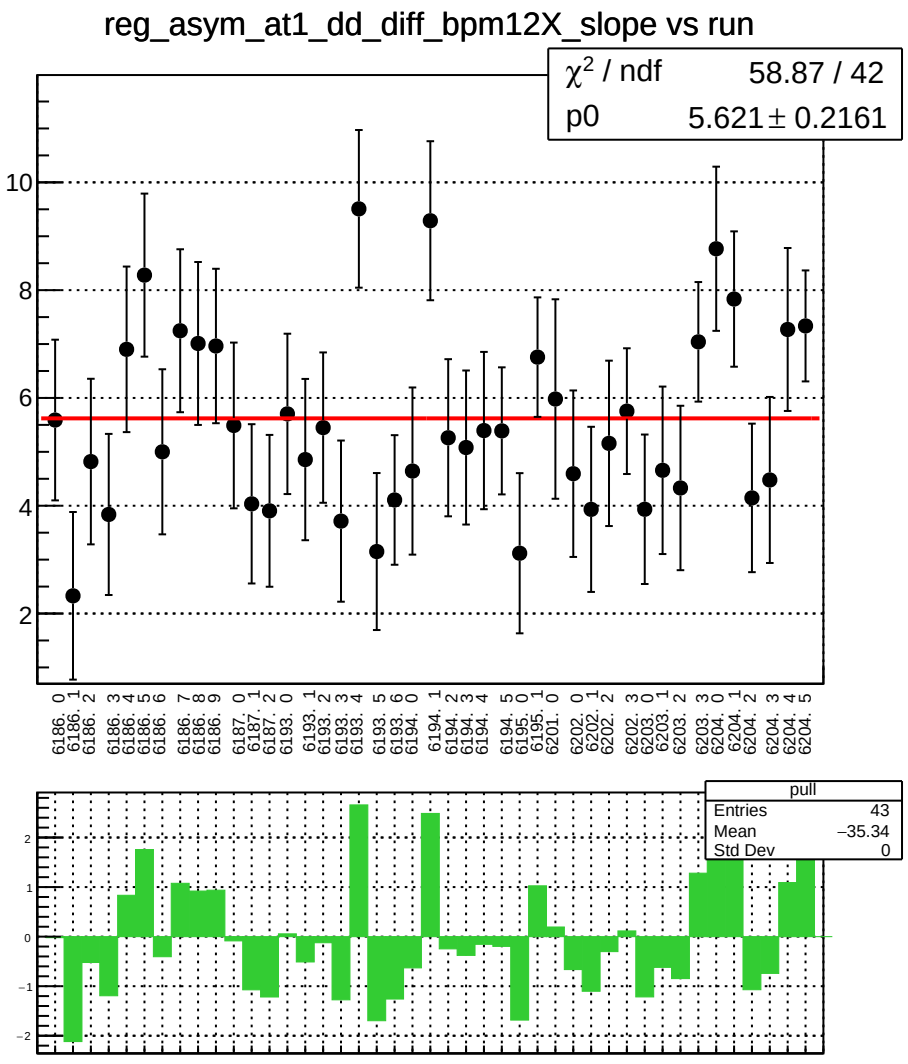

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.4 / 42
p0 1.894 ± 2.229
40
30
20
10
0
−10
−20
−30
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −548.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

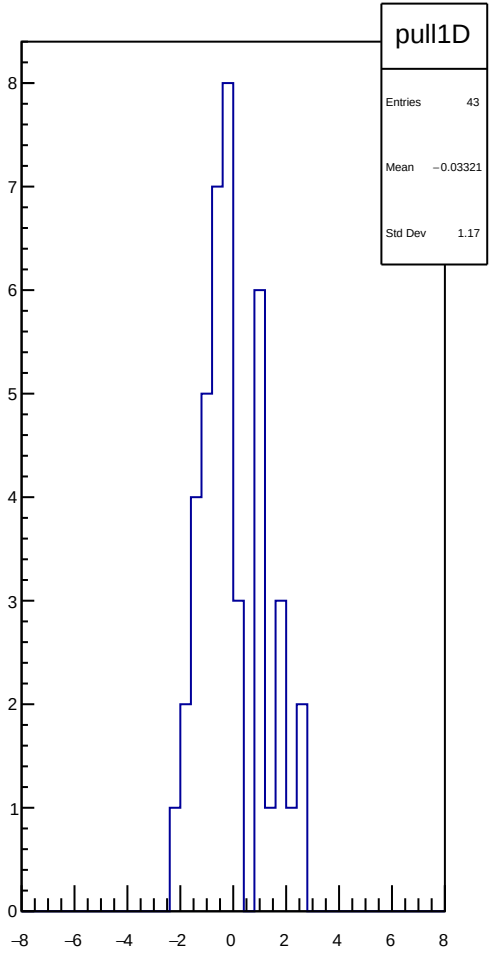

pull1D
Entries 43
Mean 0.006096
Std Dev 0.7533
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

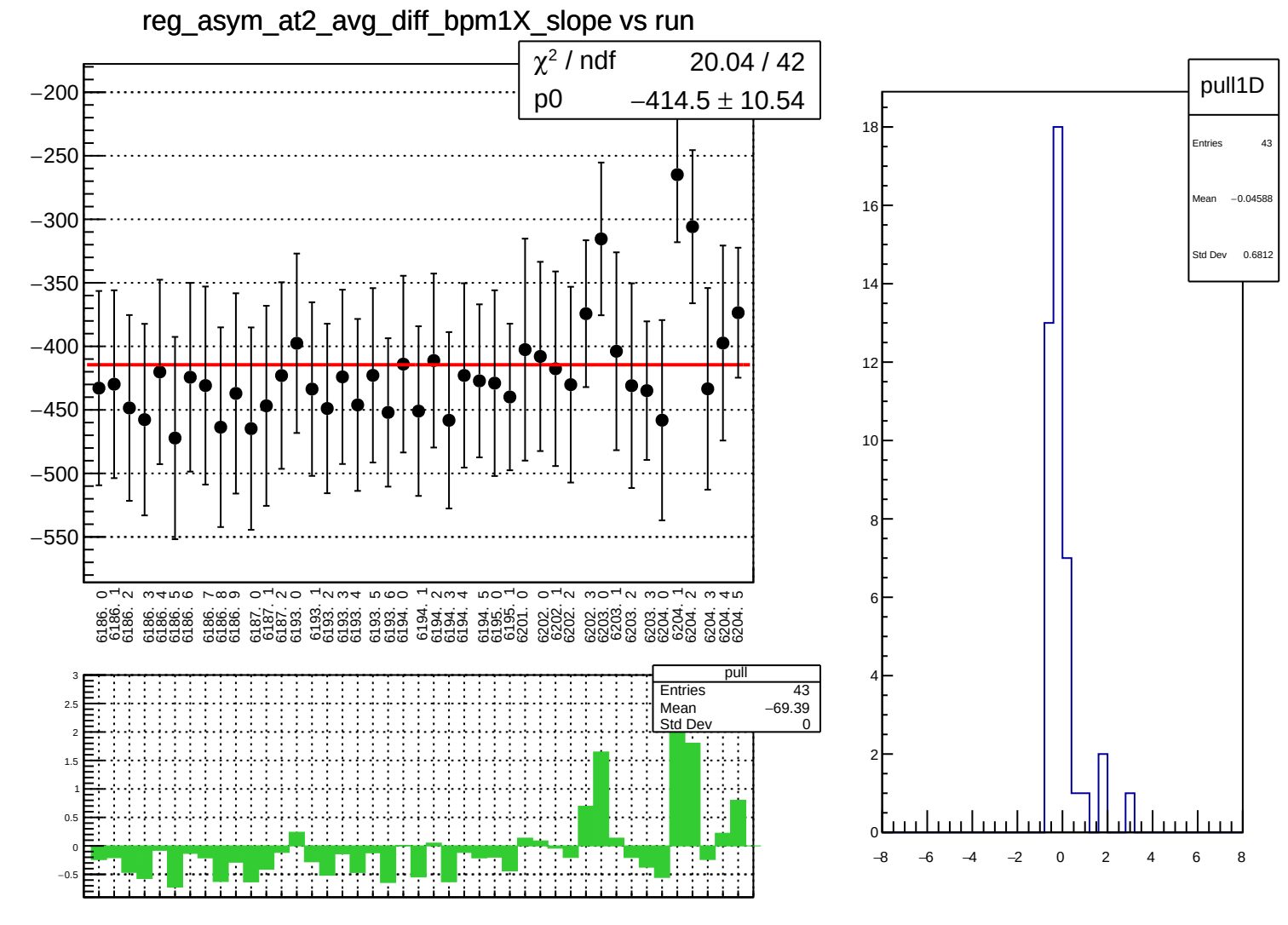

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.52 / 42
p0 20.61 ± 2.593
pull
Entries 43
Mean −73.06
Std Dev 0

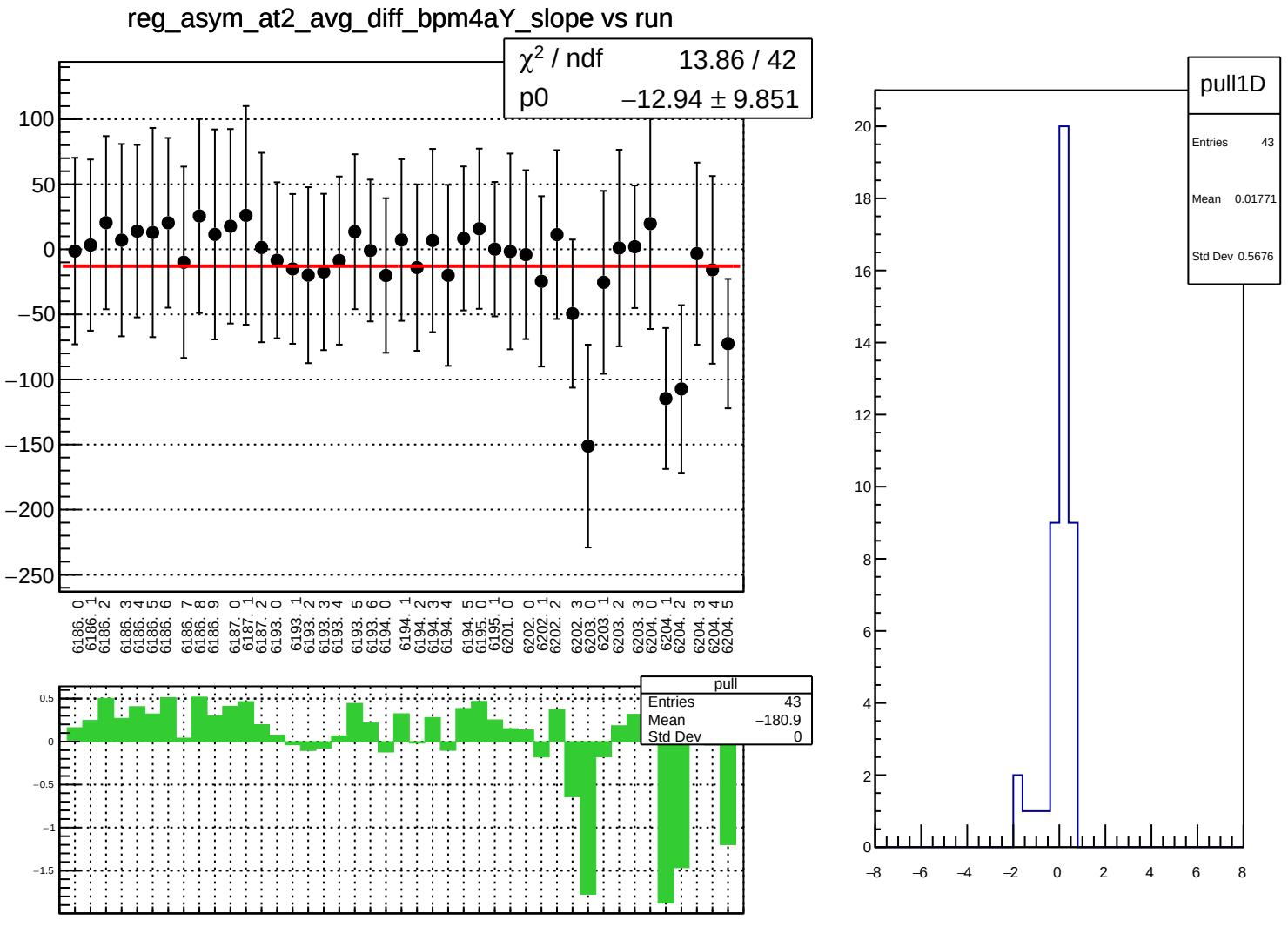

pull1D
Entries 43
Mean 0.03826
Std Dev 1.105

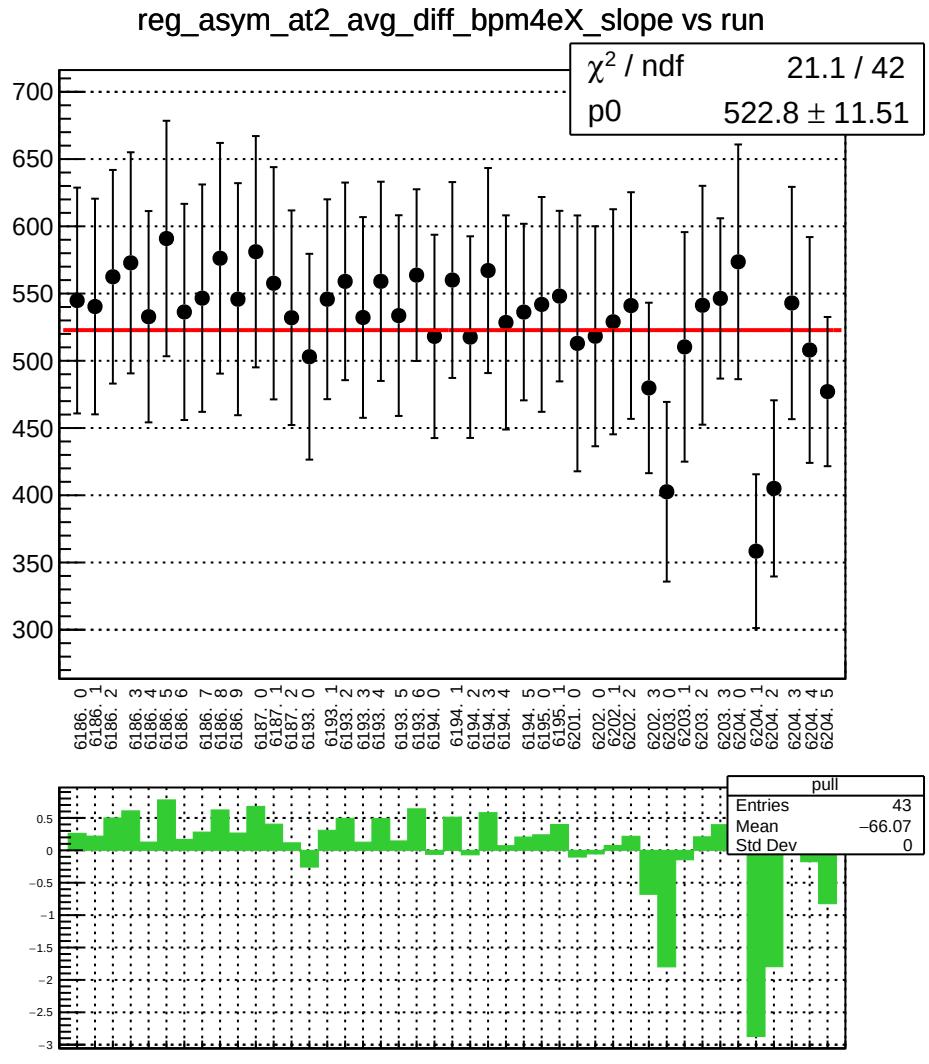

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.01 / 42
p0 −2.034 ± 2.507
40
20
0
−20
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −307.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01064
Std Dev 0.7626
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

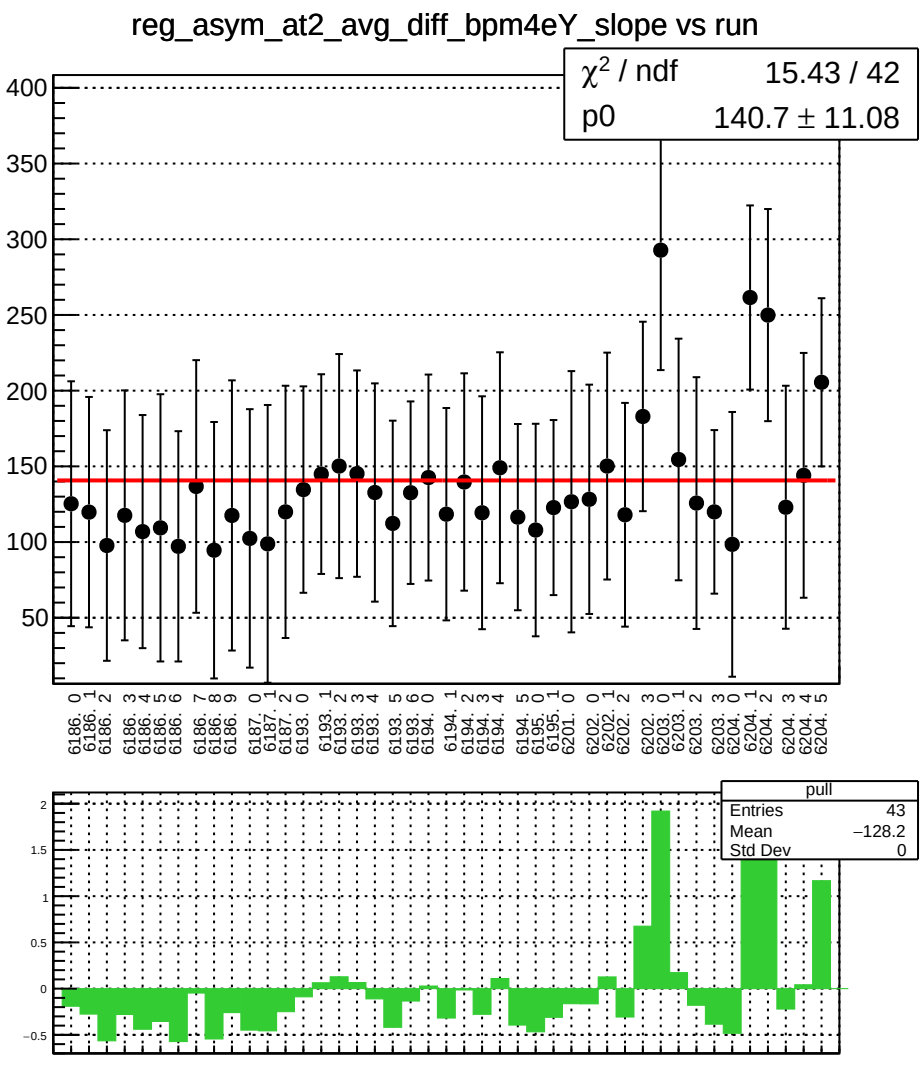

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 58.87 / 42
p0 5.621 ± 0.2161
pull
Entries 43
Mean −35.34
Std Dev 0

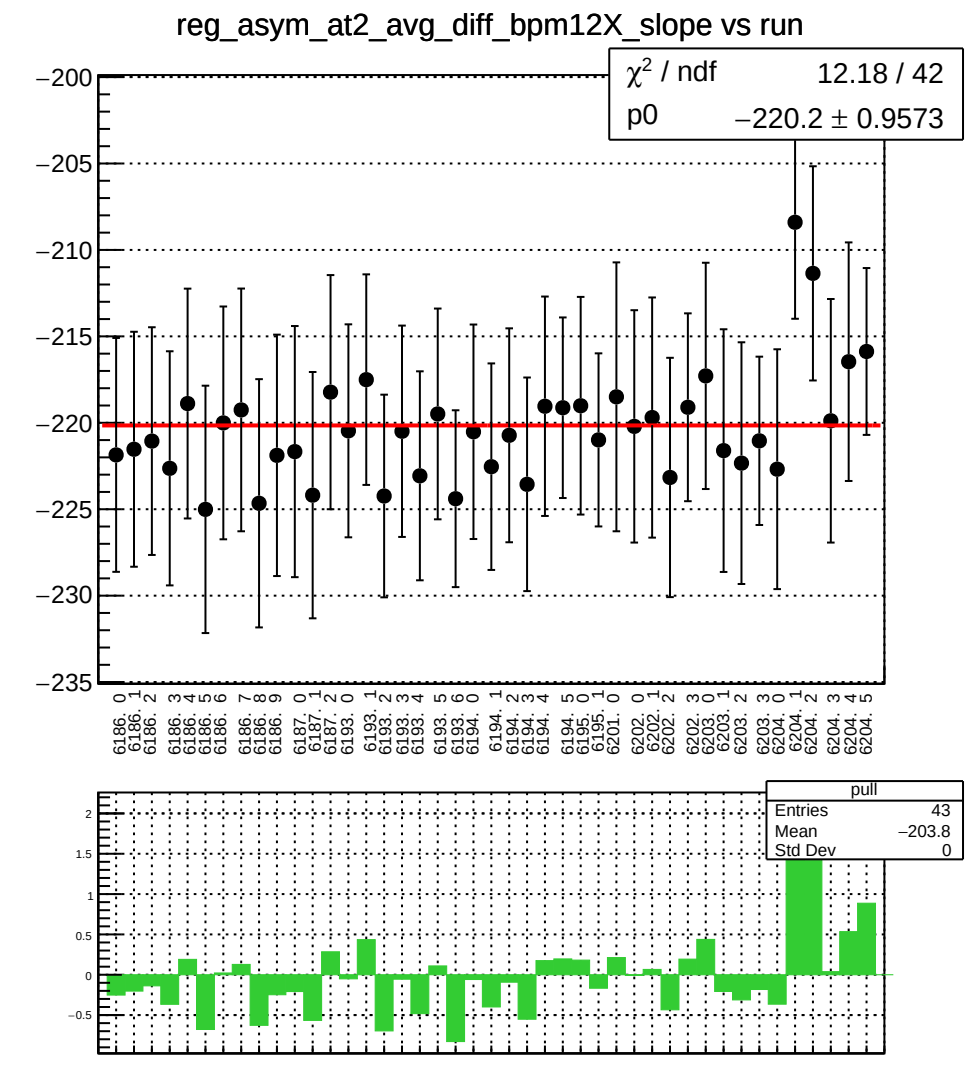

pull1D
Entries 43
Mean −0.03321
Std Dev 1.17

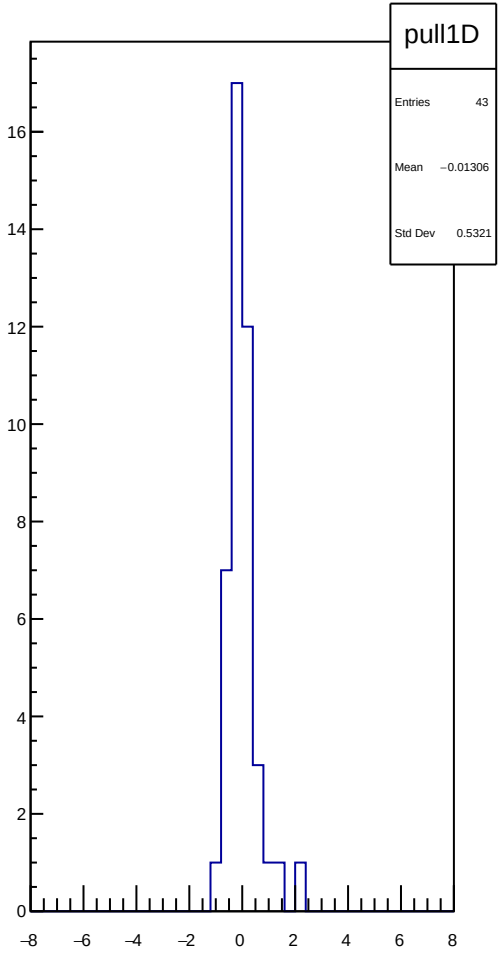

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 20.04 / 42
p0 −414.5 ± 10.54
pull
Entries 43
Mean −69.39
Std Dev 0
pull1D
Entries 43
Mean −0.04588
Std Dev 0.6812

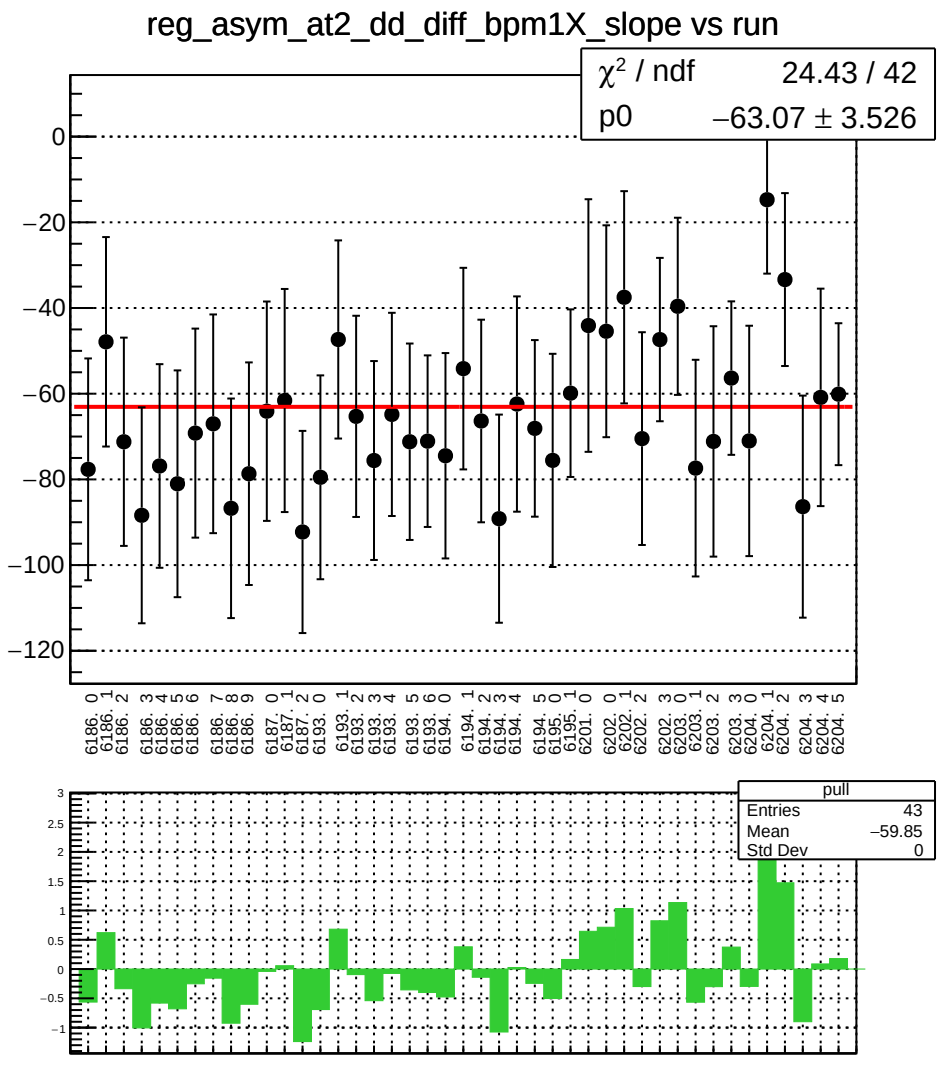

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.86 / 42
p0 −12.94 ± 9.851
pull
Entries 43
Mean −180.9
Std Dev 0
pull1D
Entries 43
Mean 0.01771
Std Dev 0.5676

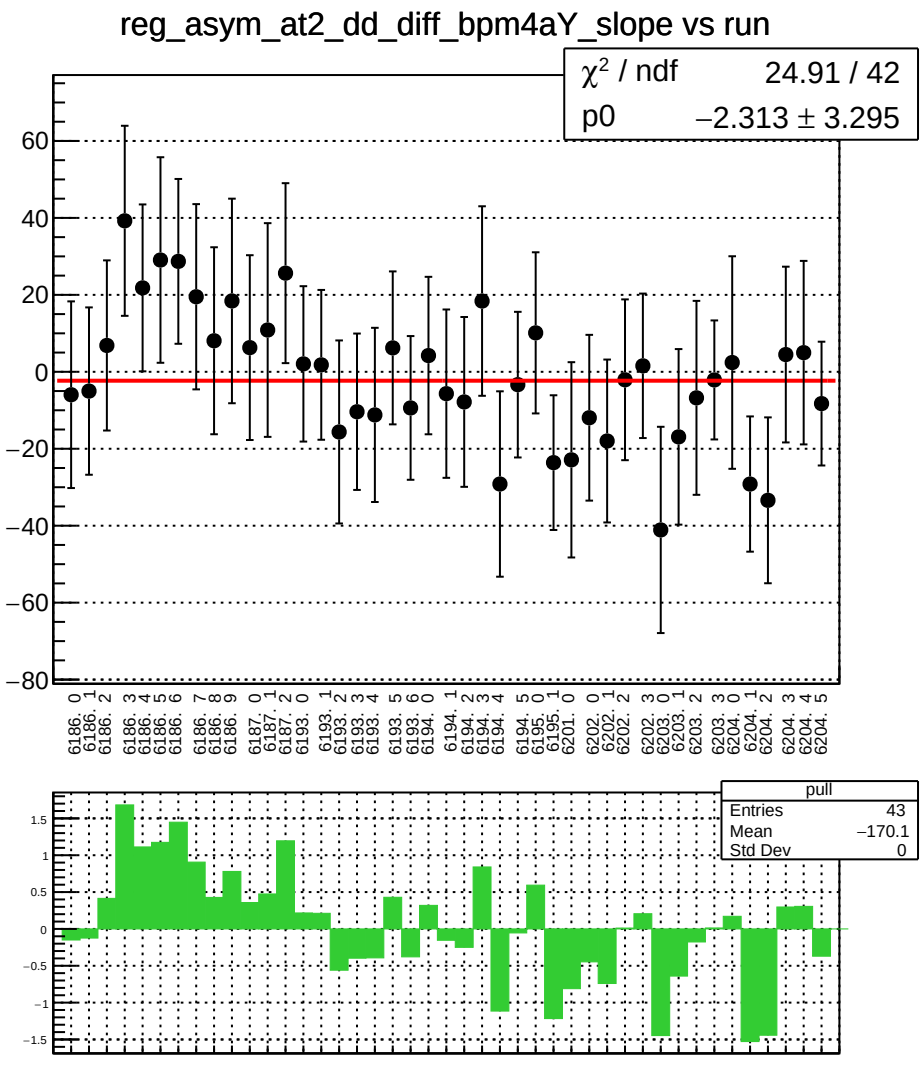

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.1 / 42
p0 522.8 ± 11.51
700
650
600
550
500
450
400
350
300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −66.07
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 43
Mean 0.04927
Std Dev 0.6988
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

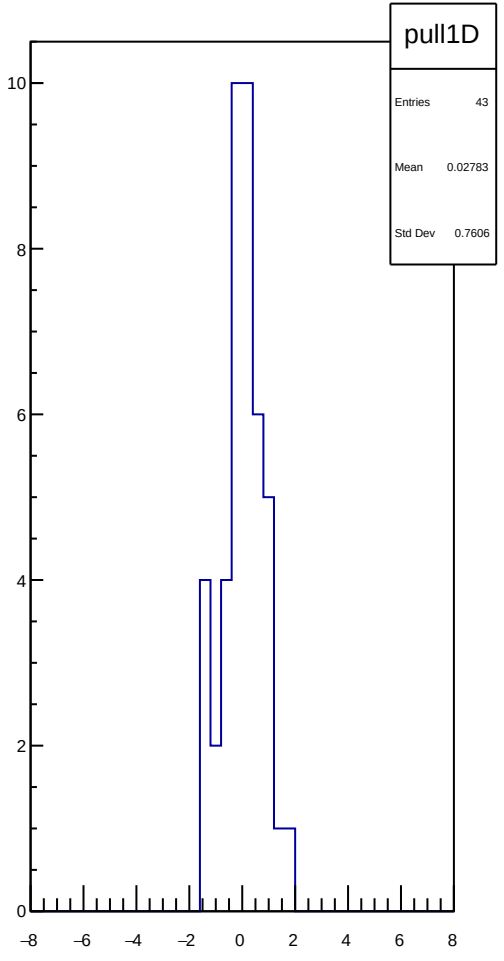

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.43 / 42
p0 140.7 ± 11.08
400
350
300
250
200
150
100
50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −128.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.02484
Std Dev 0.5985
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

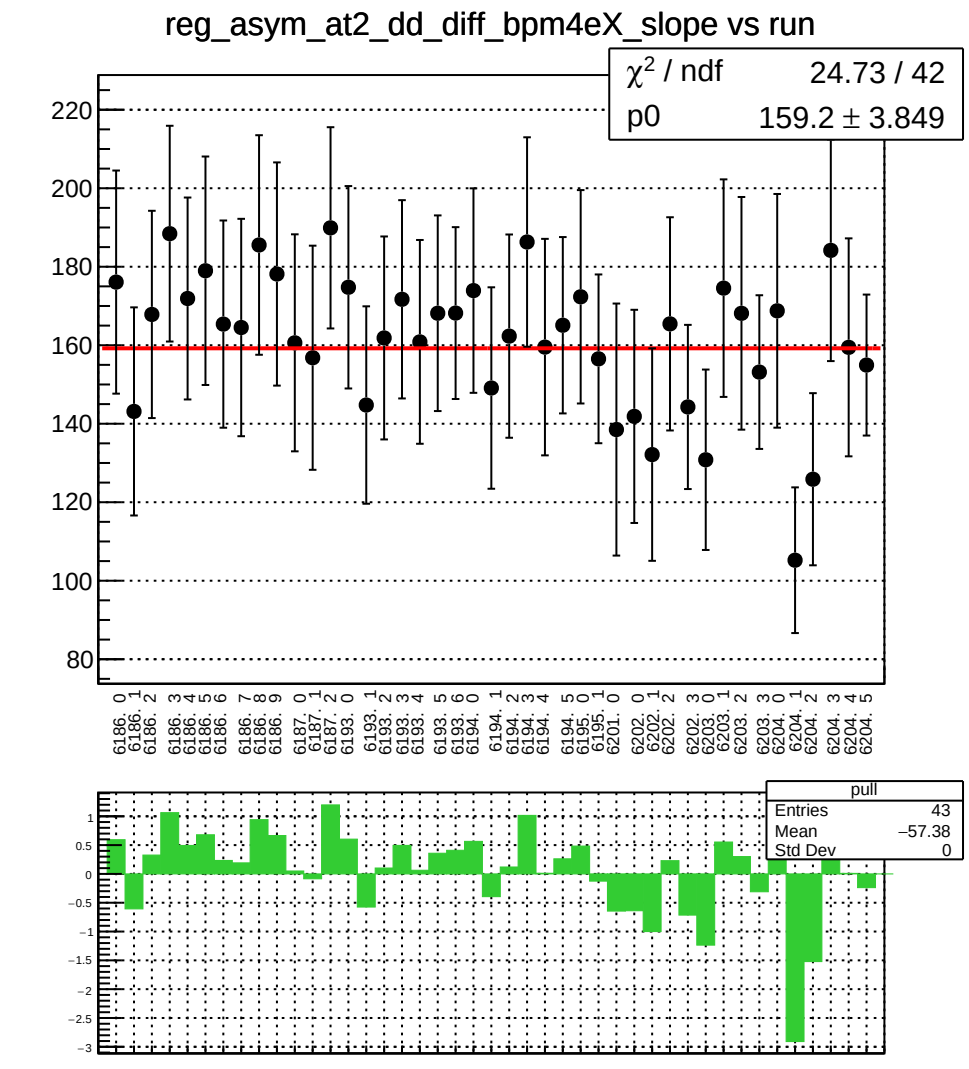

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 12.18 / 42
p0 −220.2 ± 0.9573
pull
Entries 43
Mean −203.8
Std Dev 0

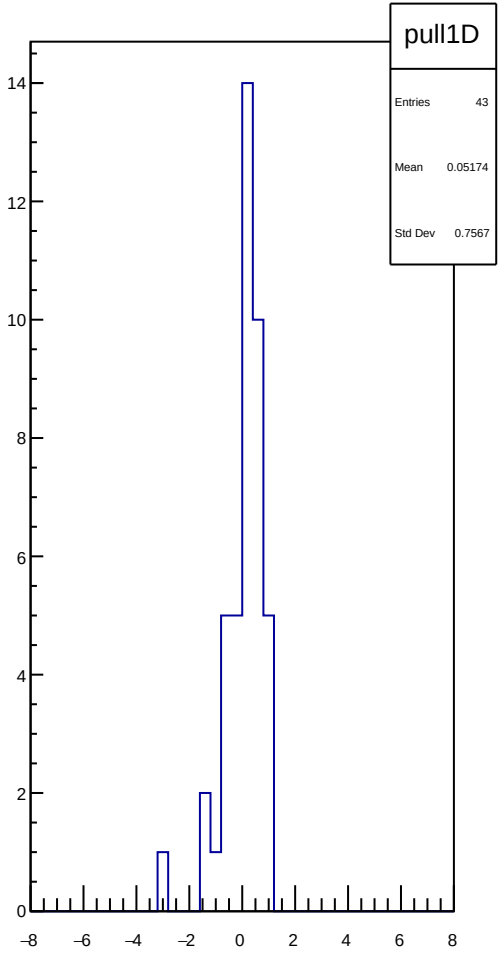

pull1D
Entries 43
Mean −0.01306
Std Dev 0.5321

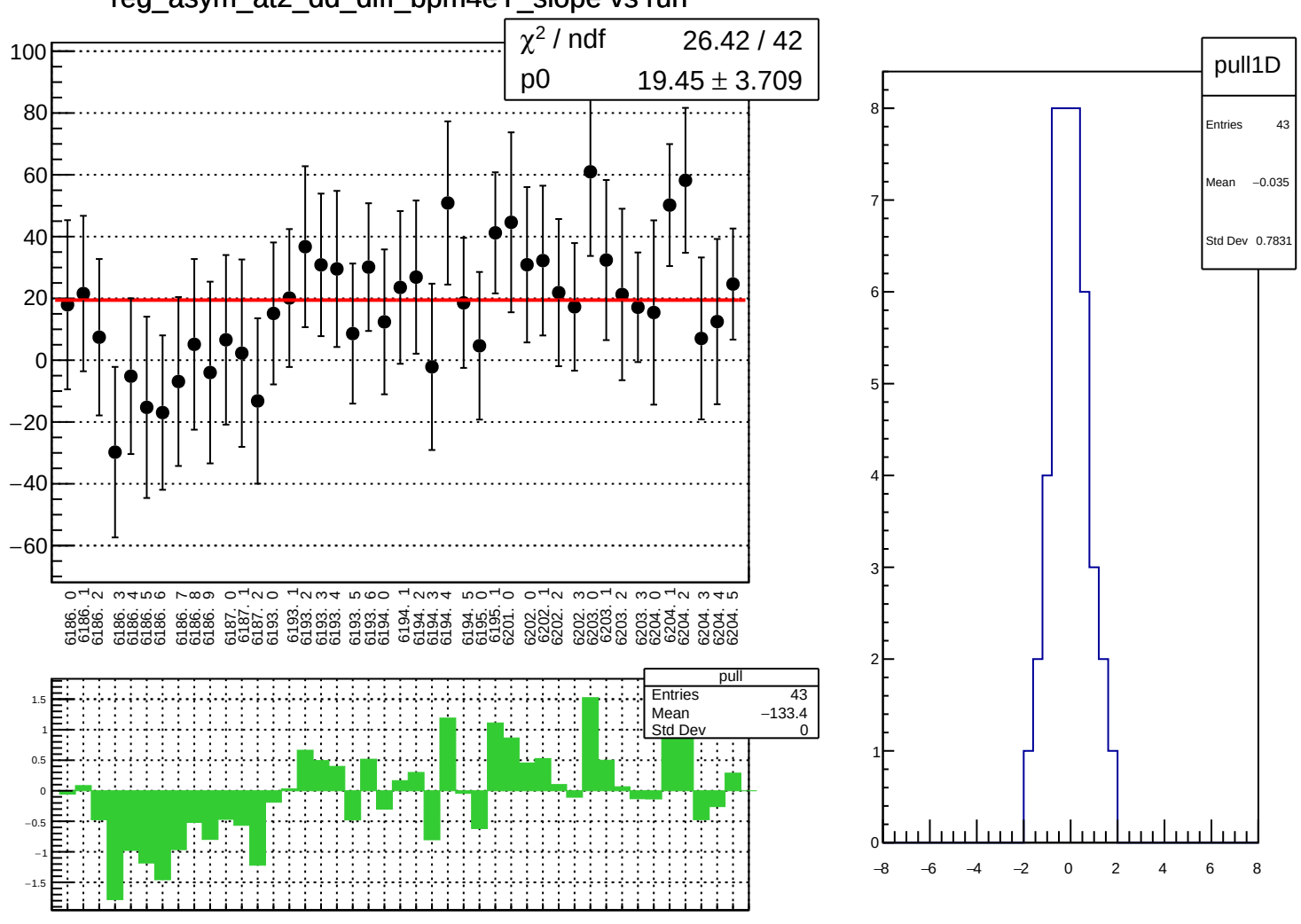

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 24.43 / 42
p0 −63.07 ± 3.526
0
−20
−40
−60
−80
−100
−120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −59.85
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.04968
Std Dev 0.7521
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

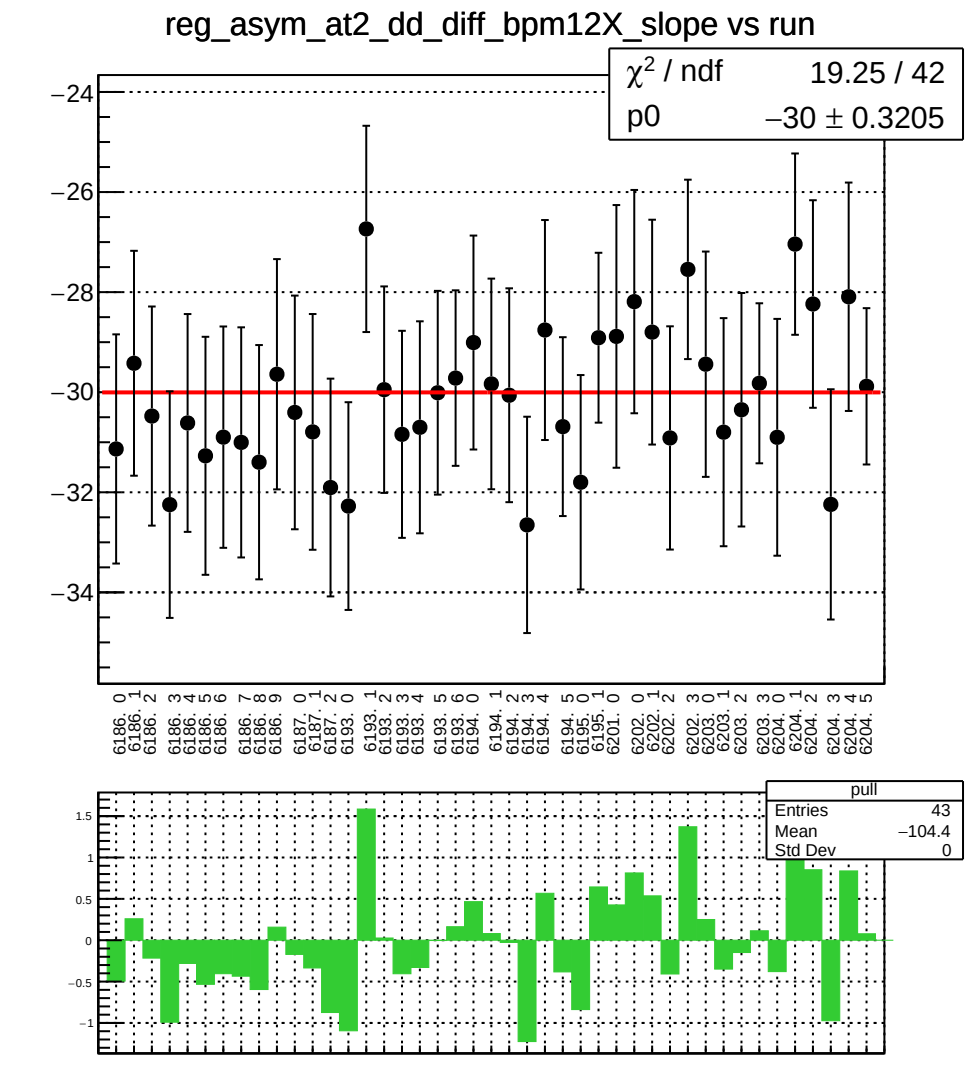

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.91 / 42
p0 −2.313 ± 3.295
pull
Entries 43
Mean −170.1
Std Dev 0

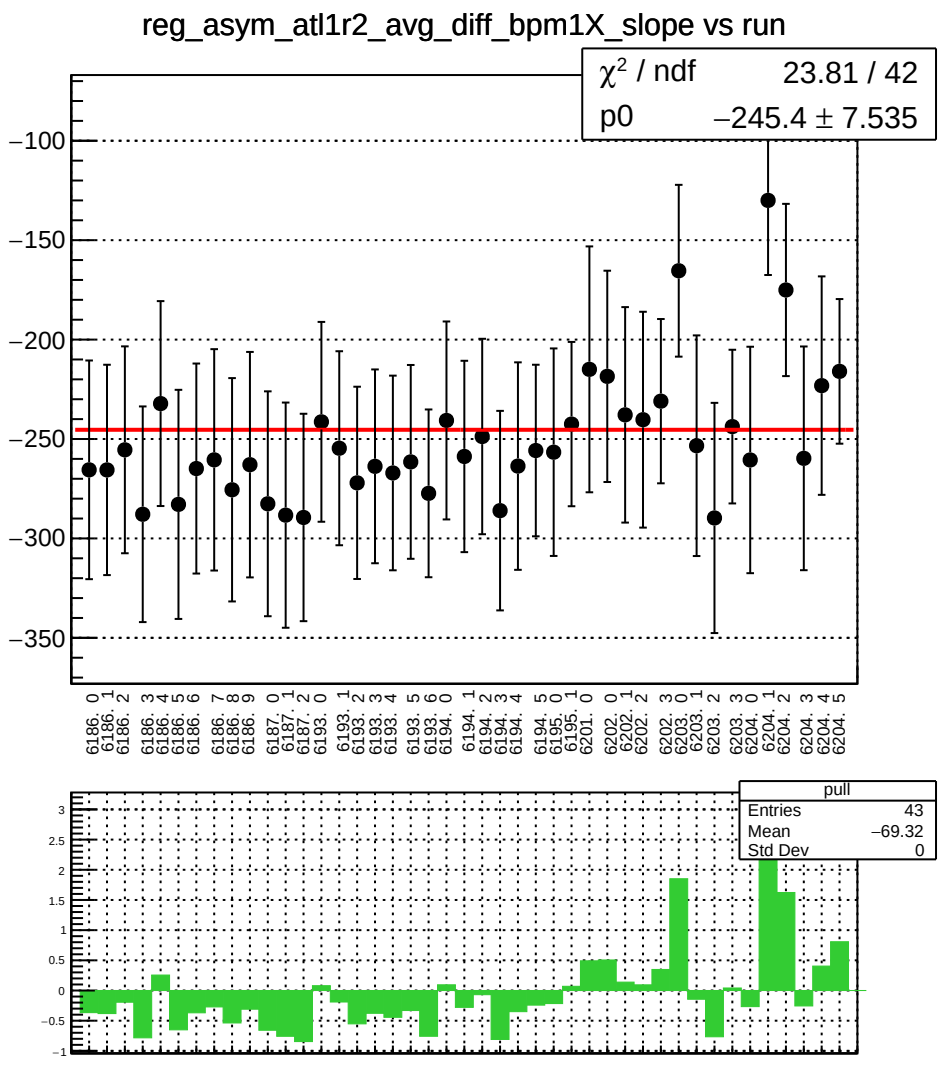

pull1D
Entries 43
Mean 0.02783
Std Dev 0.7606

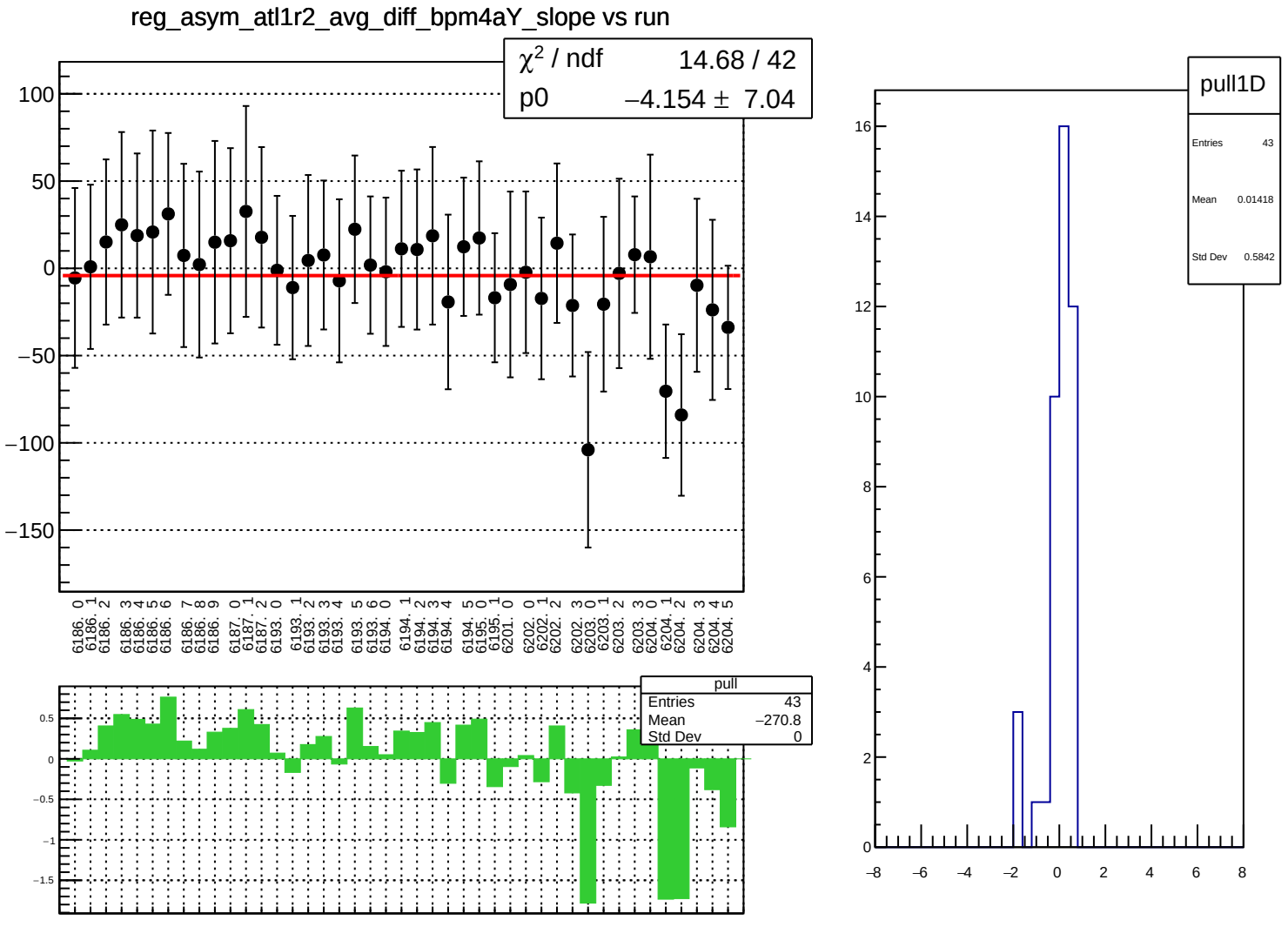

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.73 / 42
p0 159.2 ± 3.849
pull
Entries 43
Mean −57.38
Std Dev 0

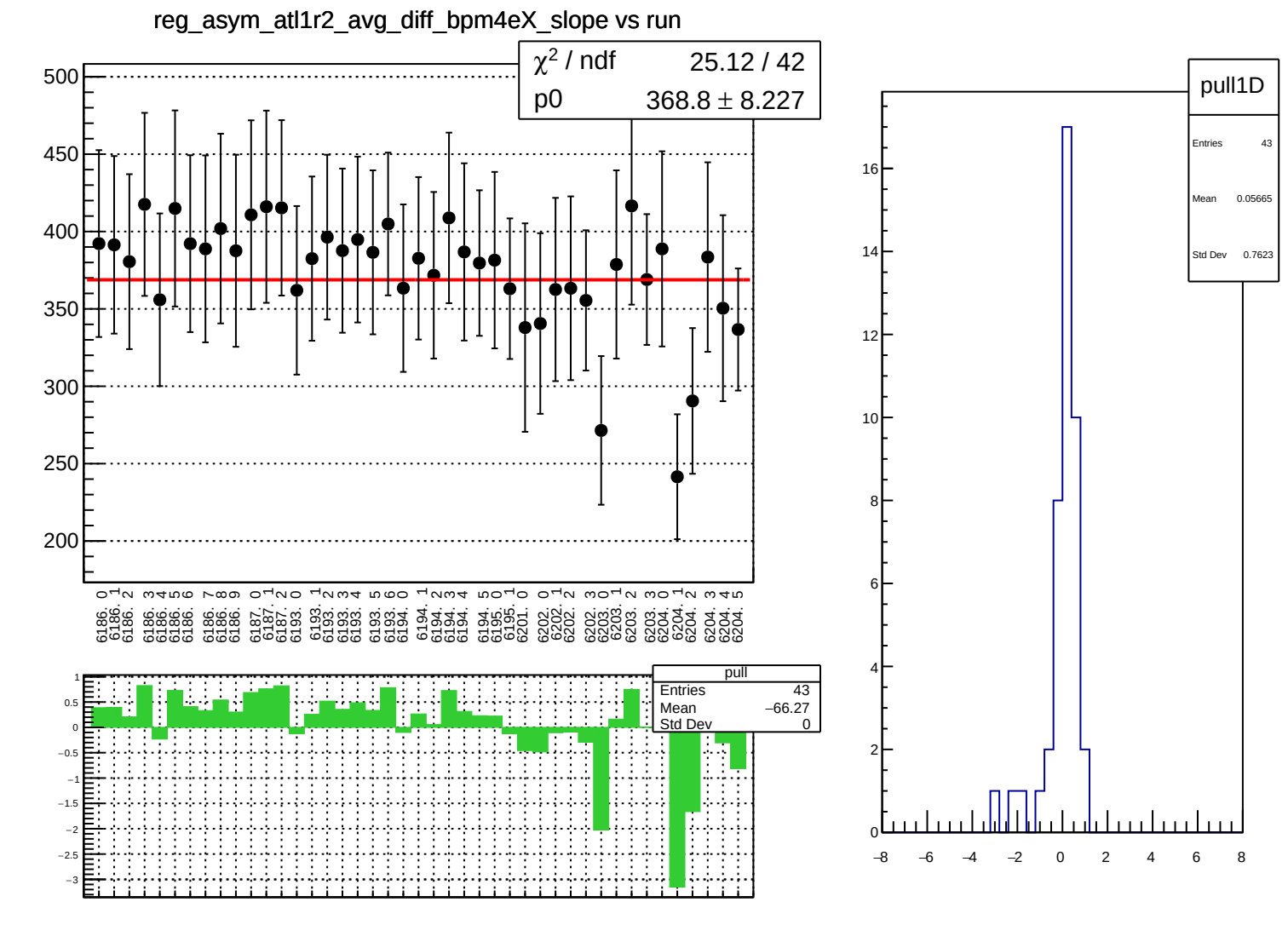

pull1D
Entries 43
Mean 0.05174
Std Dev 0.7567

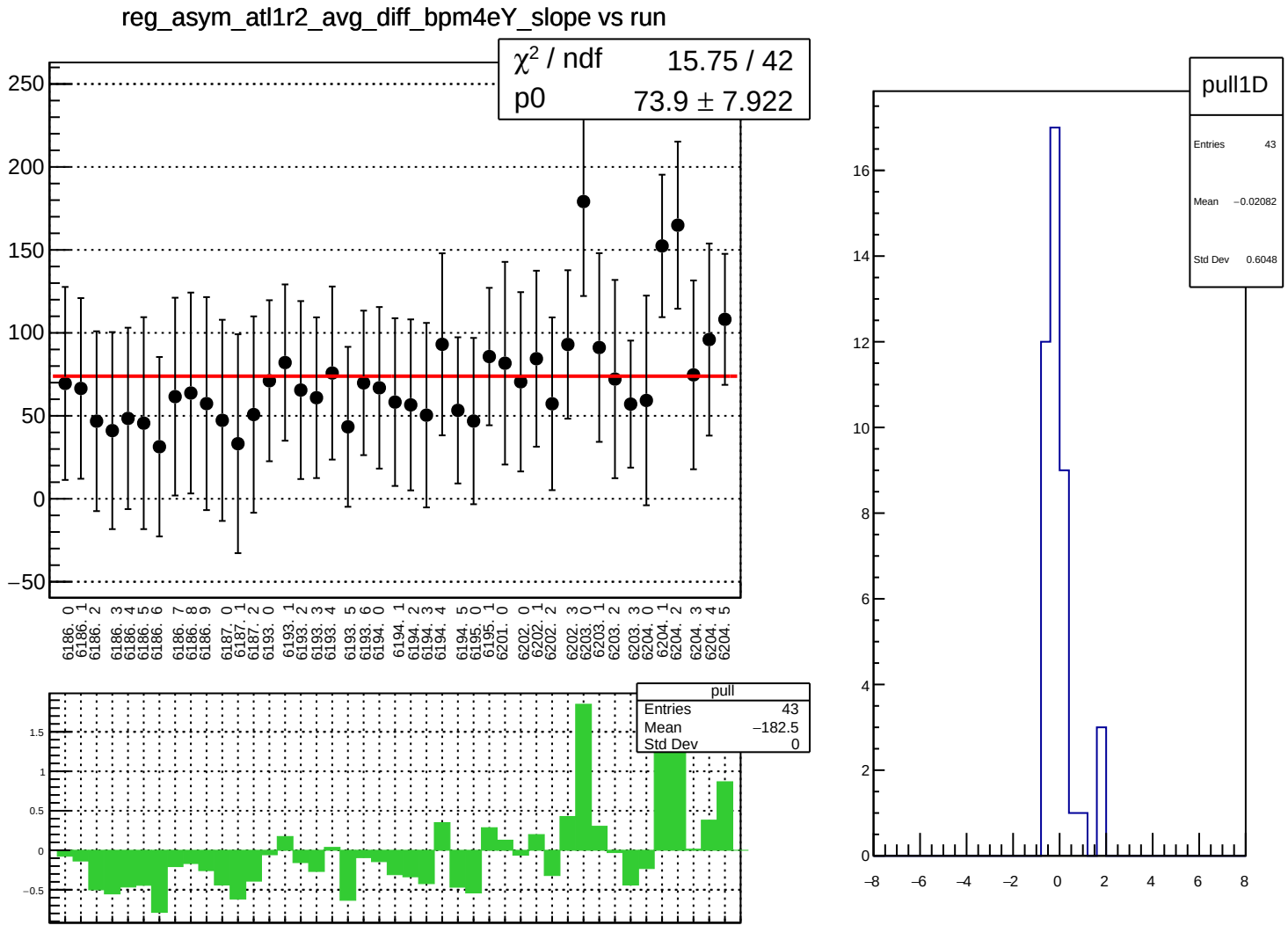

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.42 / 42
p0 19.45 ± 3.709
pull
Entries 43
Mean −133.4
Std Dev 0
pull1D
Entries 43
Mean −0.035
Std Dev 0.7831

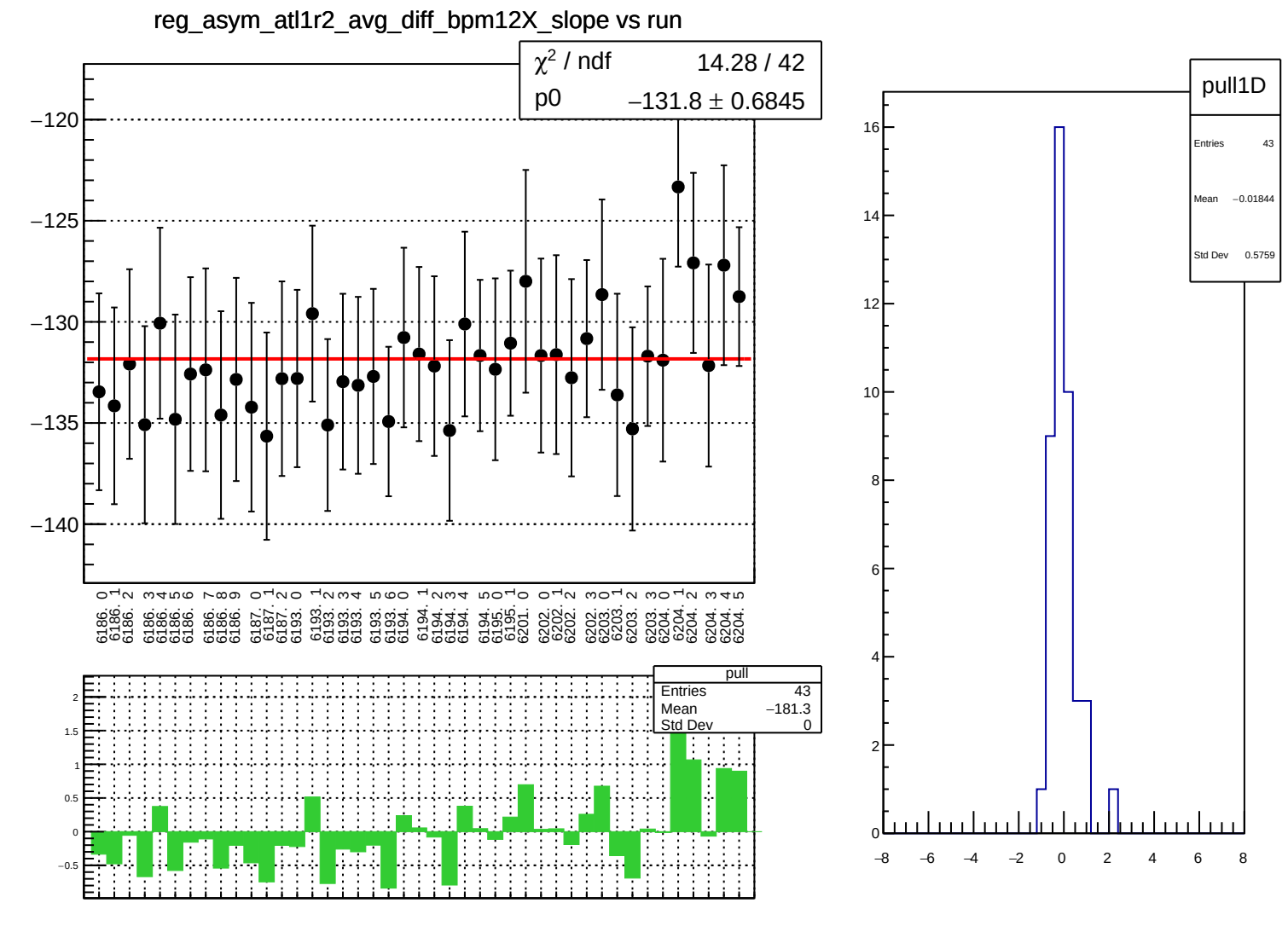

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 19.25 / 42
p0 −30 ± 0.3205
−24
−26
−28
−30
−32
−34
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −104.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.02389
Std Dev 0.6687
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

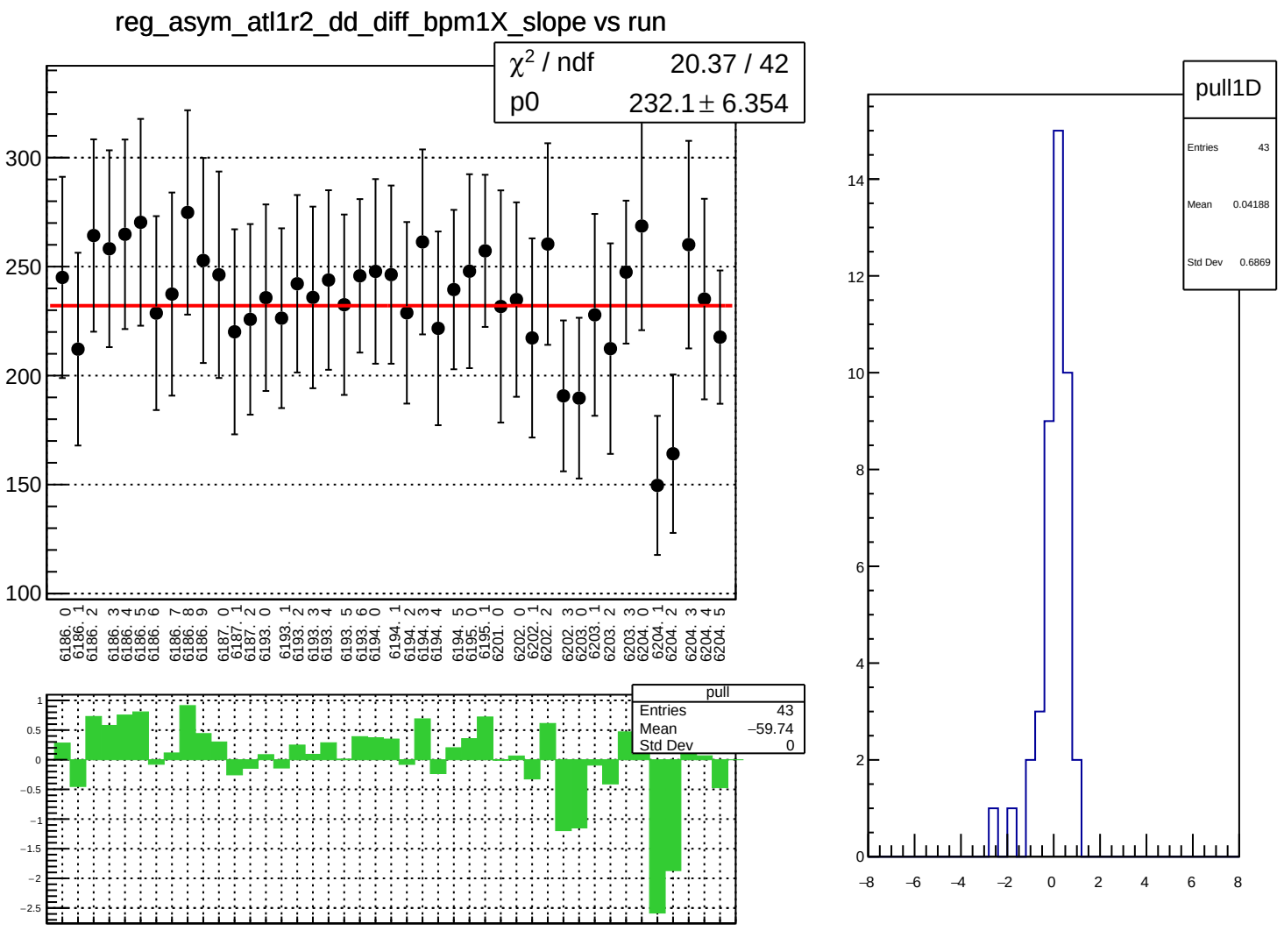

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 23.81 / 42
p0 −245.4 ± 7.535
−100
−150
−200
−250
−300
−350
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −69.32
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.0534
Std Dev 0.7422
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

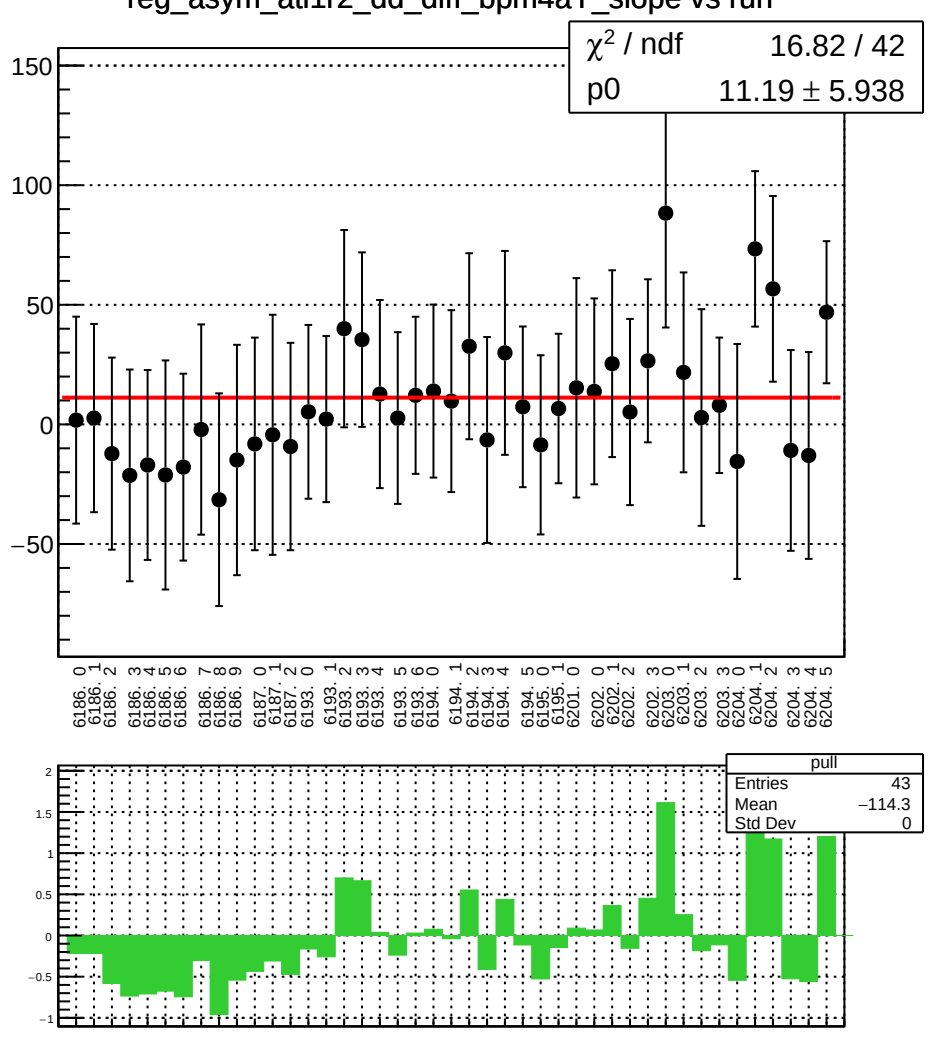

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.68 / 42
p0 −4.154 ± 7.04
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −270.8
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01418
Std Dev 0.5842
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

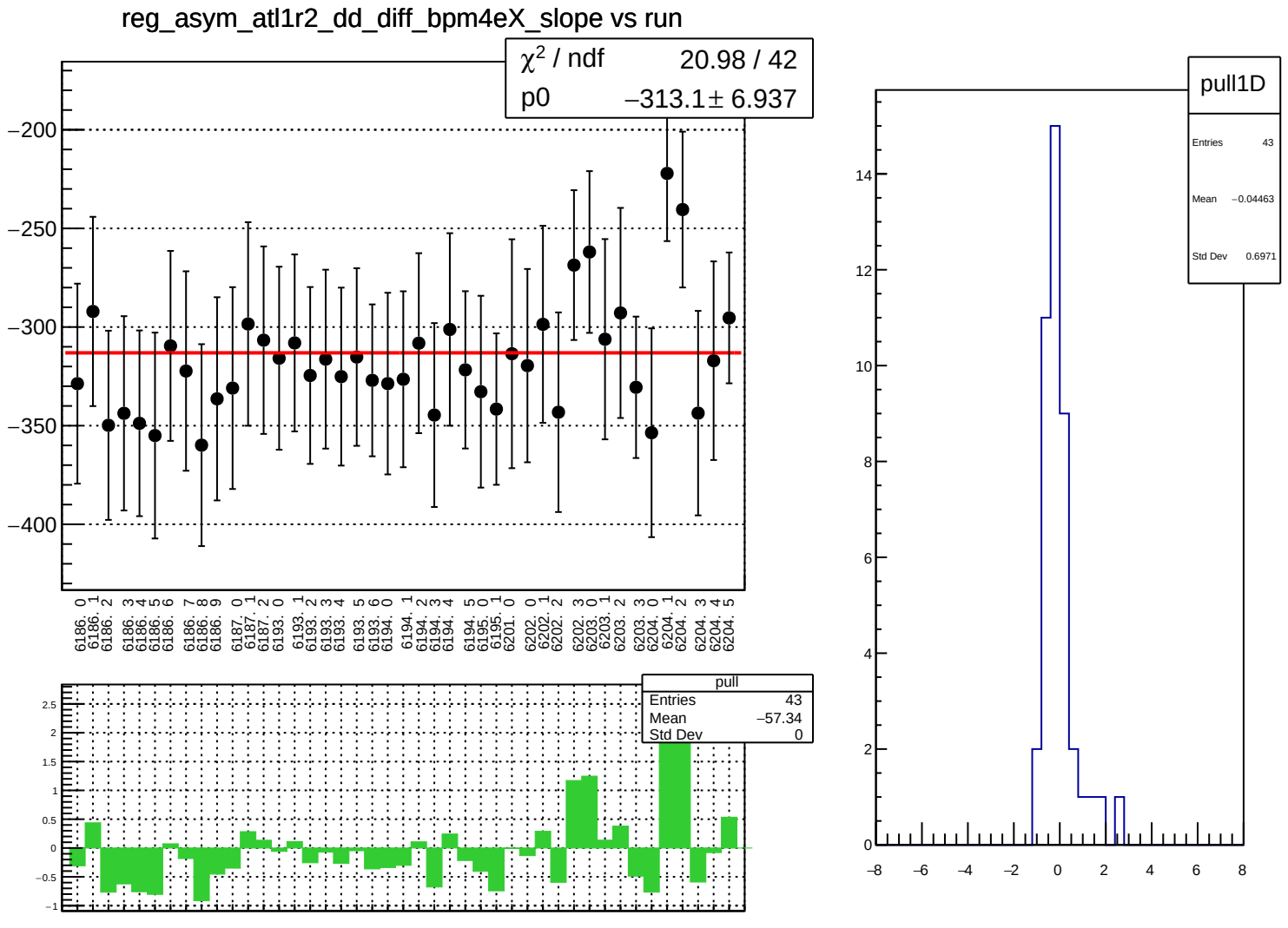

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.12 / 42
p0 368.8 ± 8.227
500
450
400
350
300
250
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −66.27
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 43
Mean 0.05665
Std Dev 0.7623
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

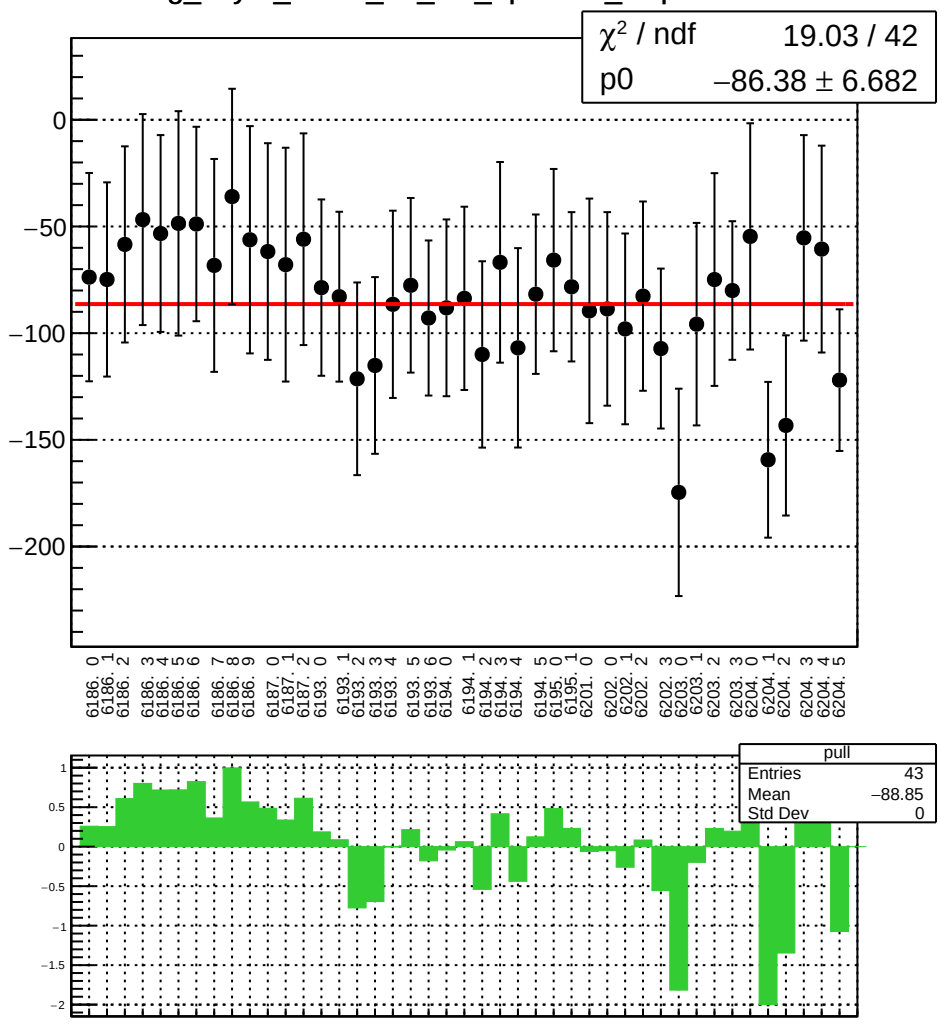

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.75 / 42
p0 73.9 ± 7.922
250
200
150
100
50
0
−50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −182.5
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.02082
Std Dev 0.6048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

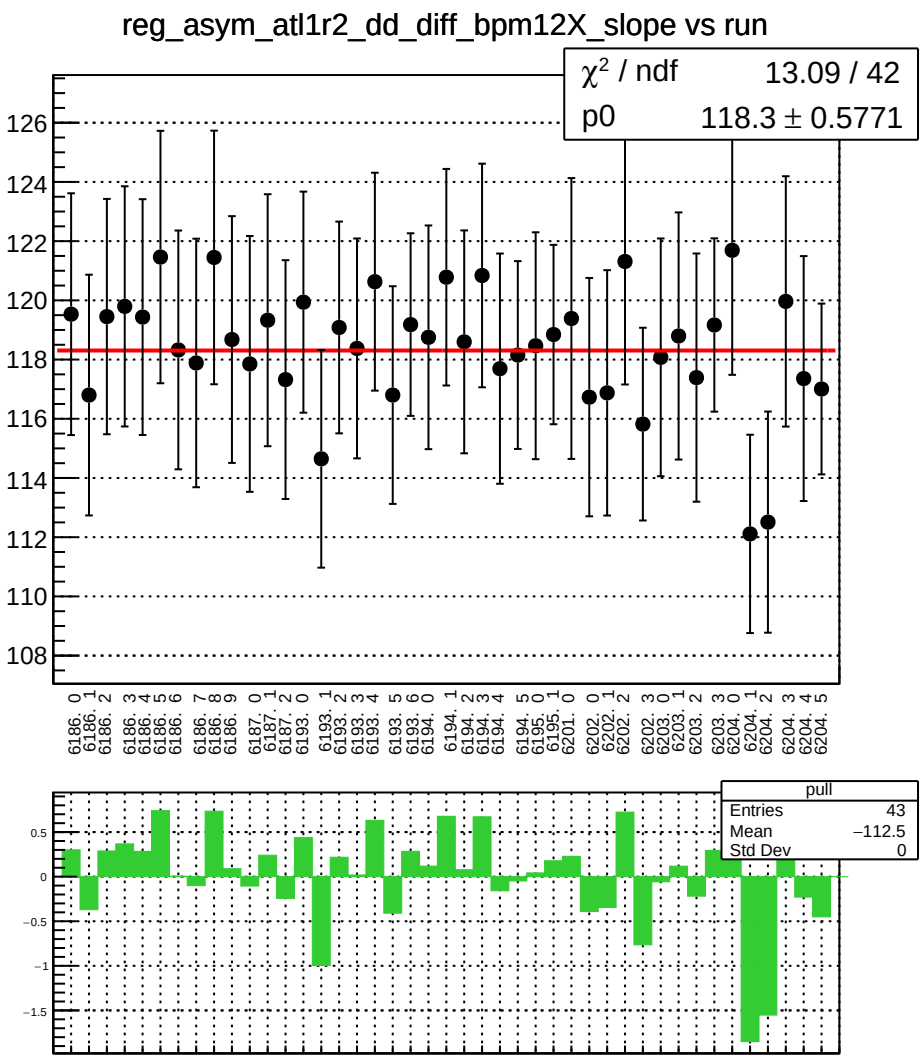

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 14.28 / 42
p0 −131.8 ± 0.6845
−120
−125
−130
−135
−140
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −181.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.01844
Std Dev 0.5759
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

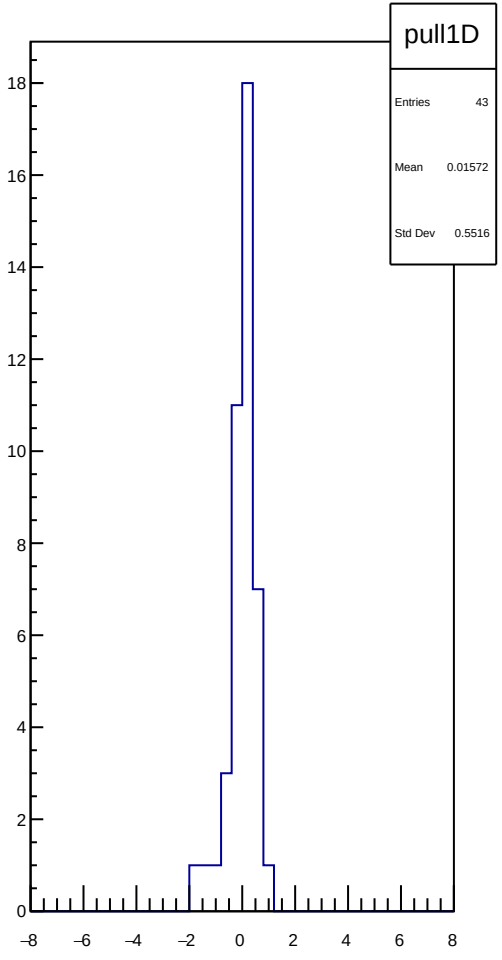

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 20.37 / 42
p0 232.1 ± 6.354
300
250
200
150
100
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −59.74
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.04188
Std Dev 0.6869
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

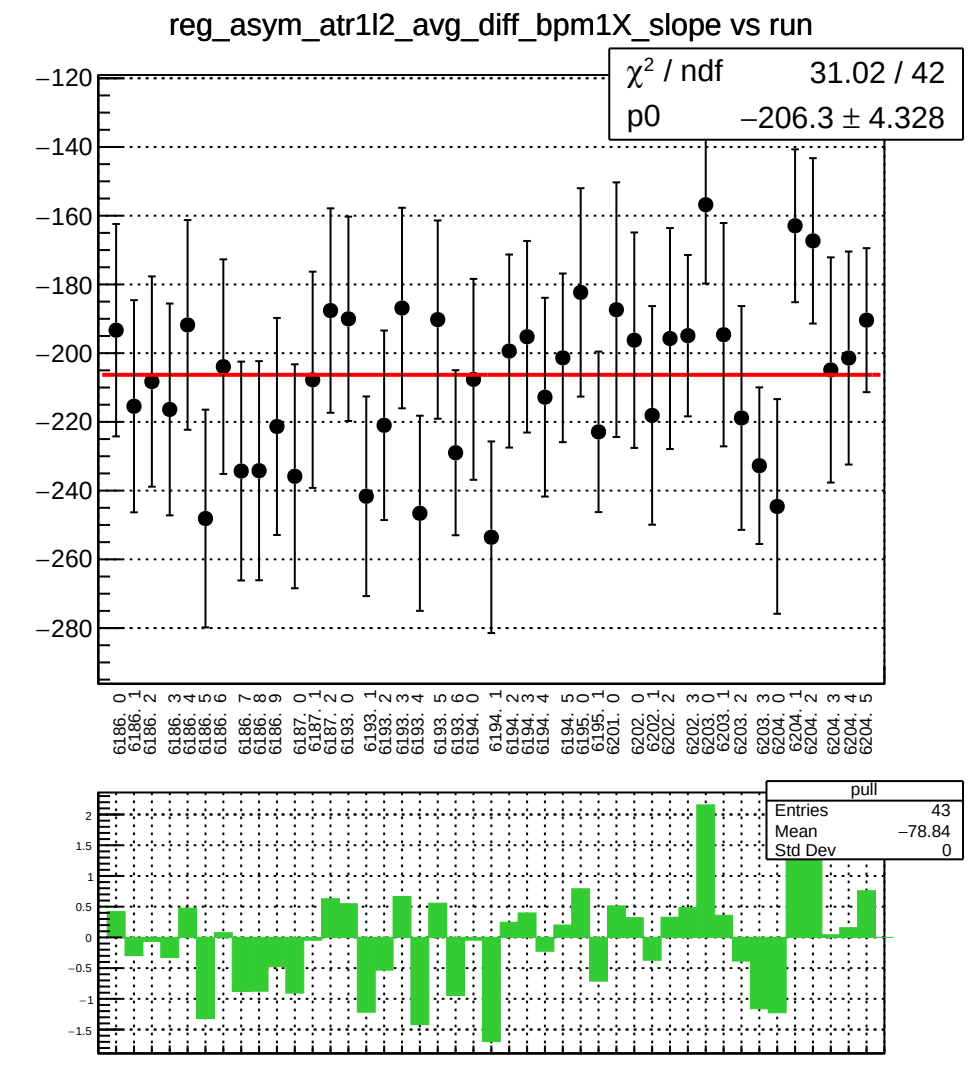

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.82 / 42
p0 11.19 ± 5.938
150
100
50
0
−50
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −114.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.02927
Std Dev 0.6247
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

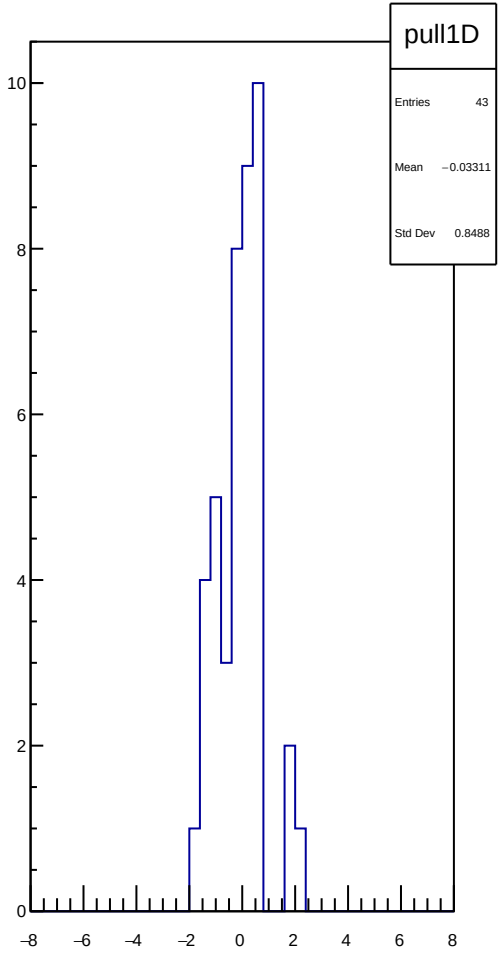

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.98 / 42
p0 −313.1± 6.937
−200
−250
−300
−350
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −57.34
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.04463
Std Dev 0.6971
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

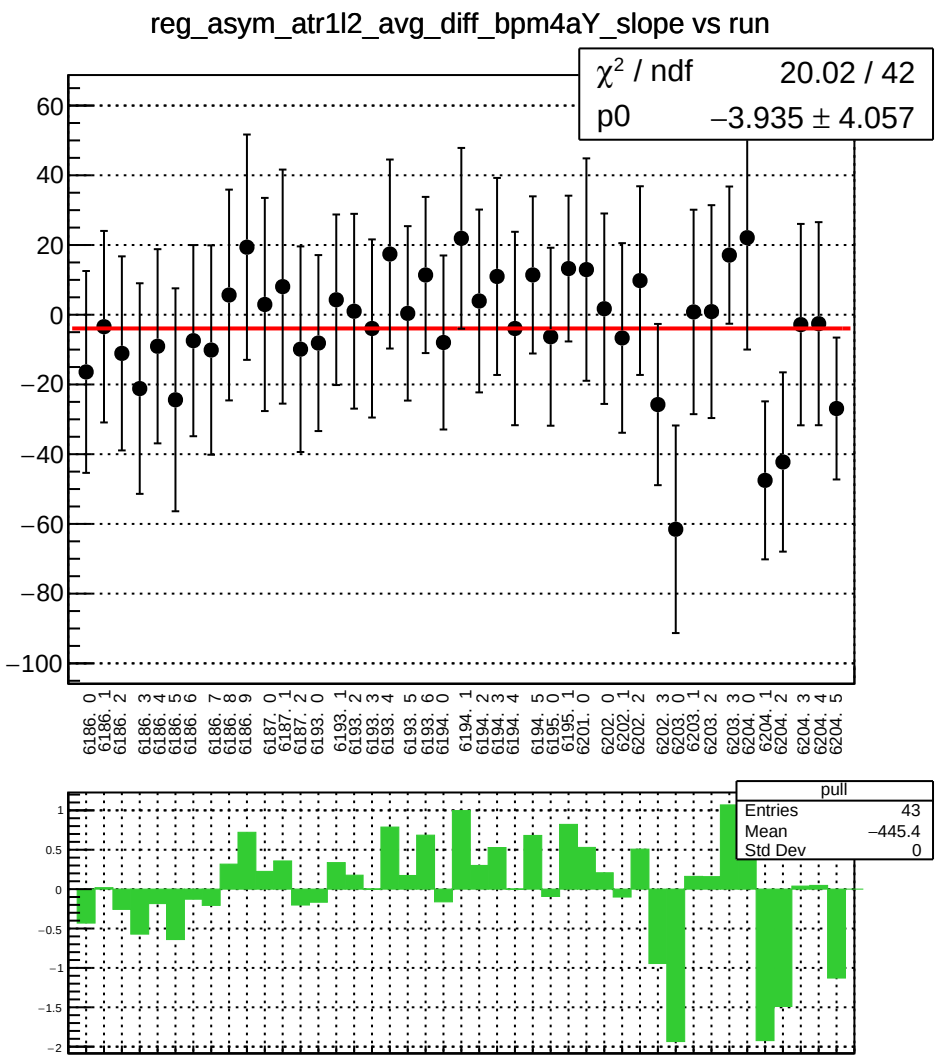

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.03 / 42
p0 −86.38 ± 6.682
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −88.85
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.03741
Std Dev 0.6642
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

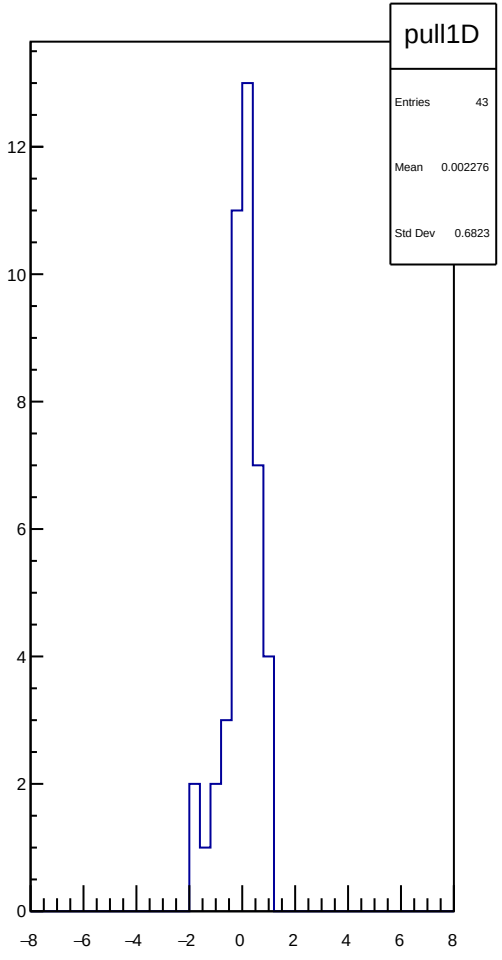

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.09 / 42
p0 118.3 ± 0.5771
126
124
122
120
118
116
114
112
110
108
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −112.5
Std Dev 0
0.5
0
−0.5
−1
−1.5

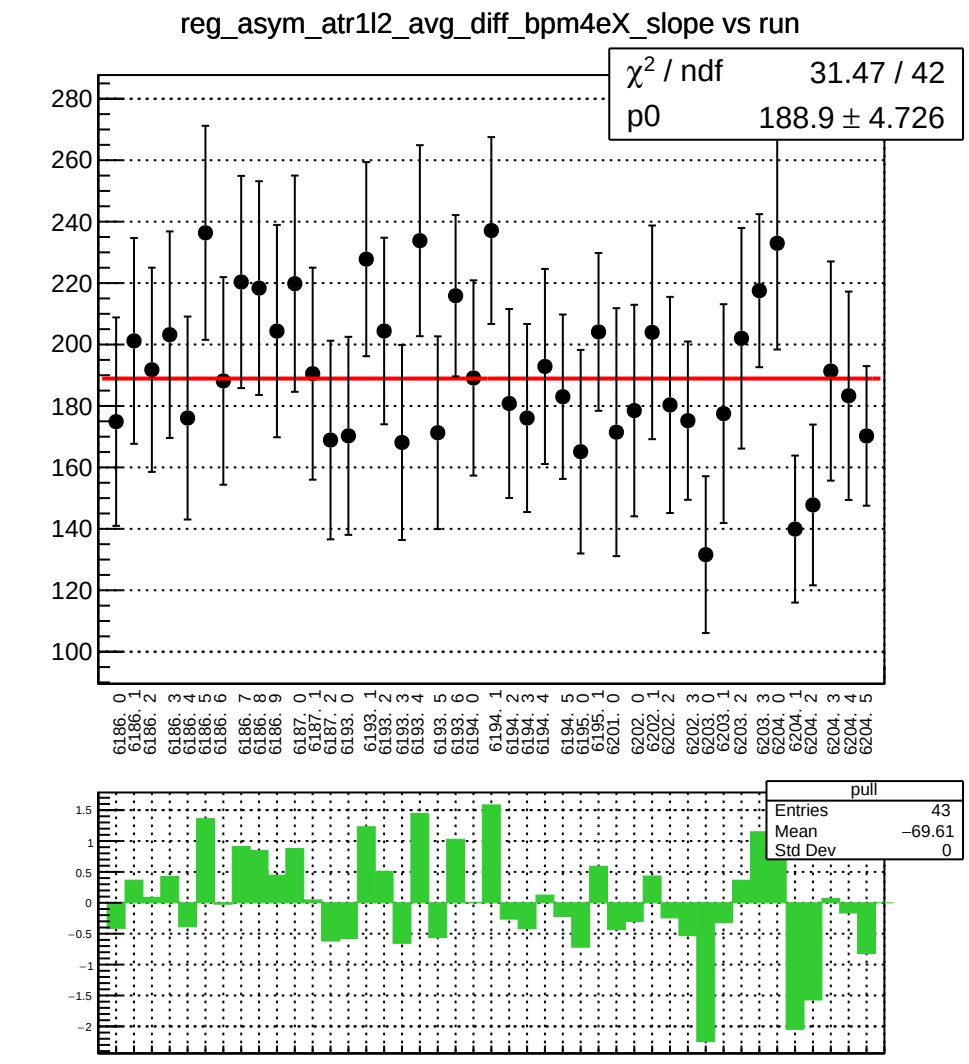

pull1D
Entries 43
Mean 0.01572
Std Dev 0.5516
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

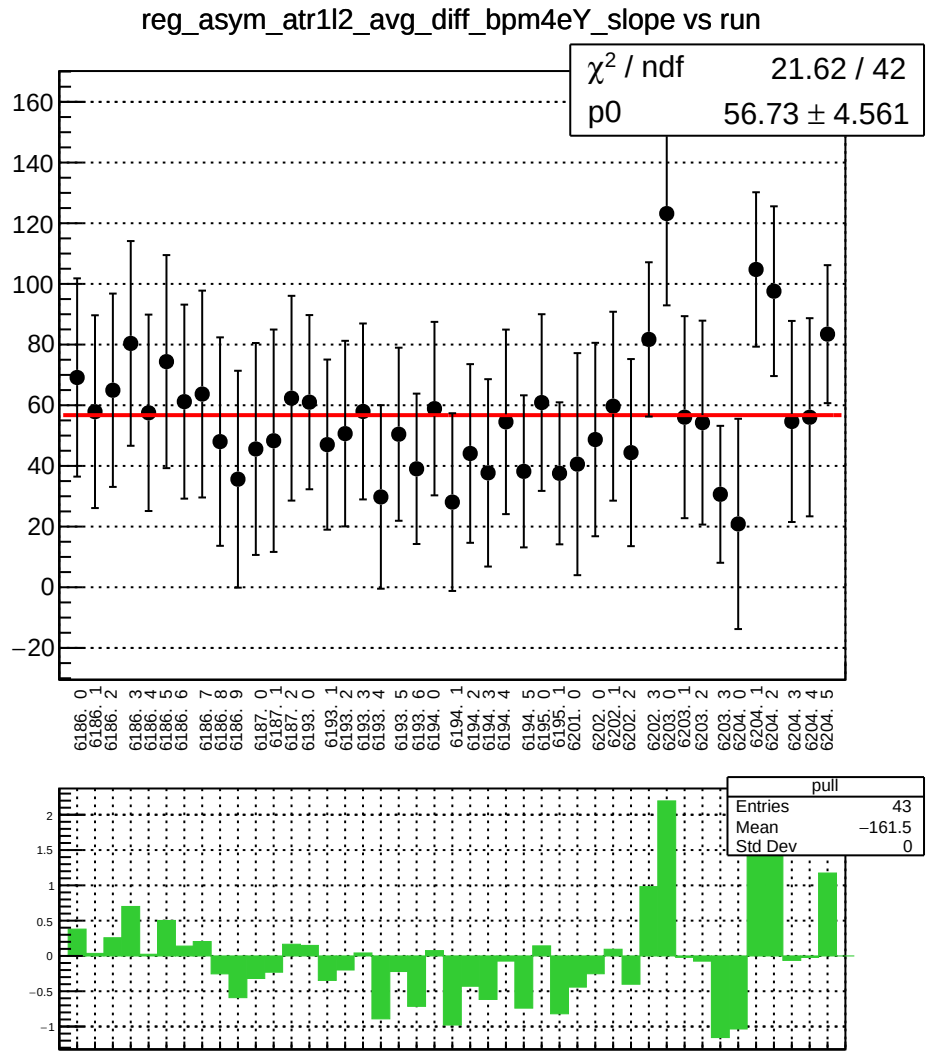

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 31.02 / 42
p0 −206.3 ± 4.328
pull
Entries 43
Mean −78.84
Std Dev 0

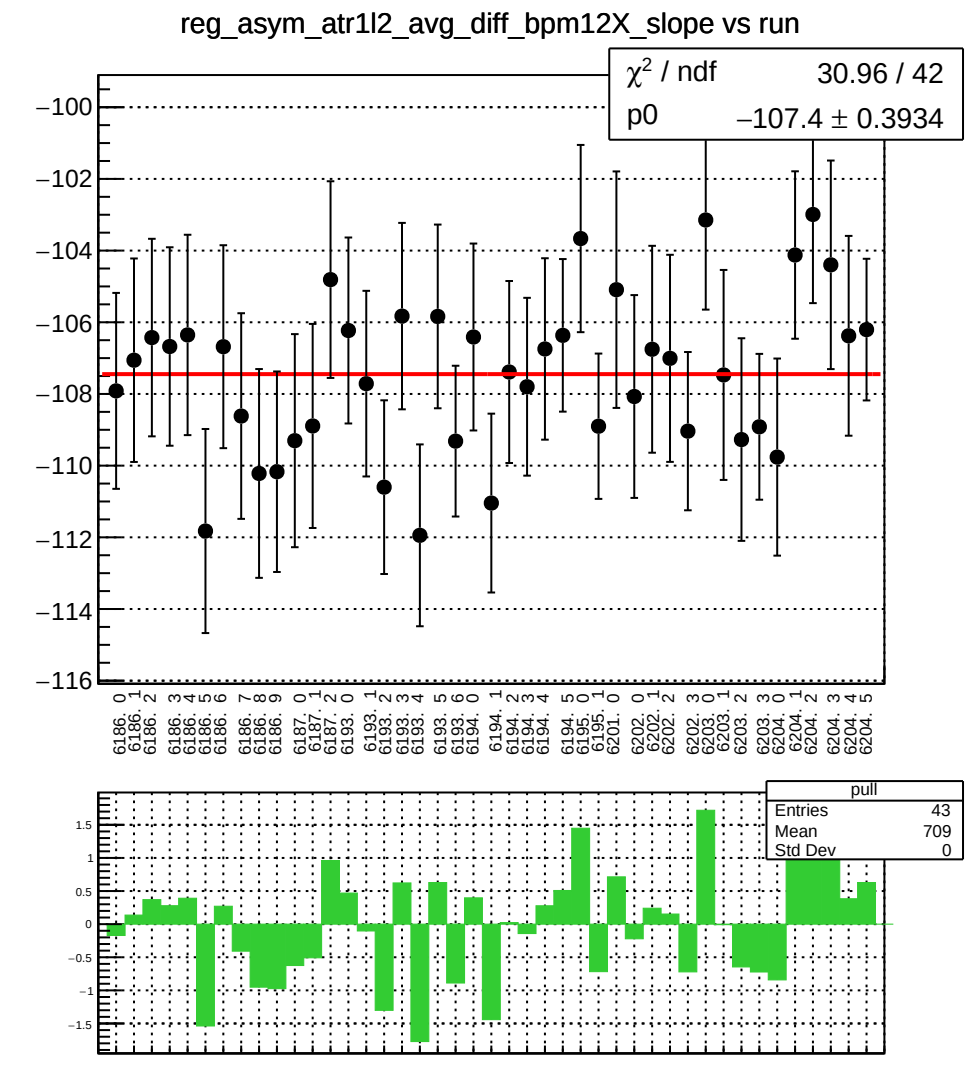

pull1D
Entries 43
Mean −0.03311
Std Dev 0.8488

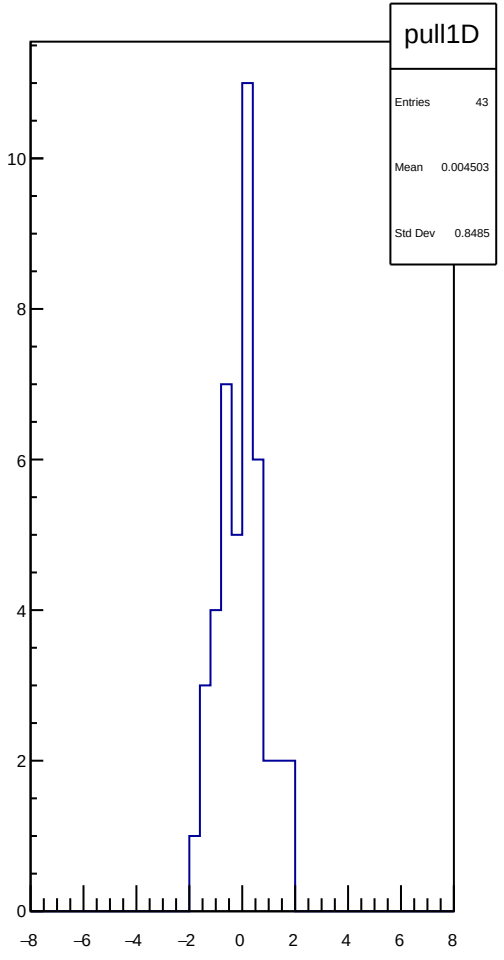

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.02 / 42
p0 −3.935 ± 4.057
pull
Entries 43
Mean −445.4
Std Dev 0

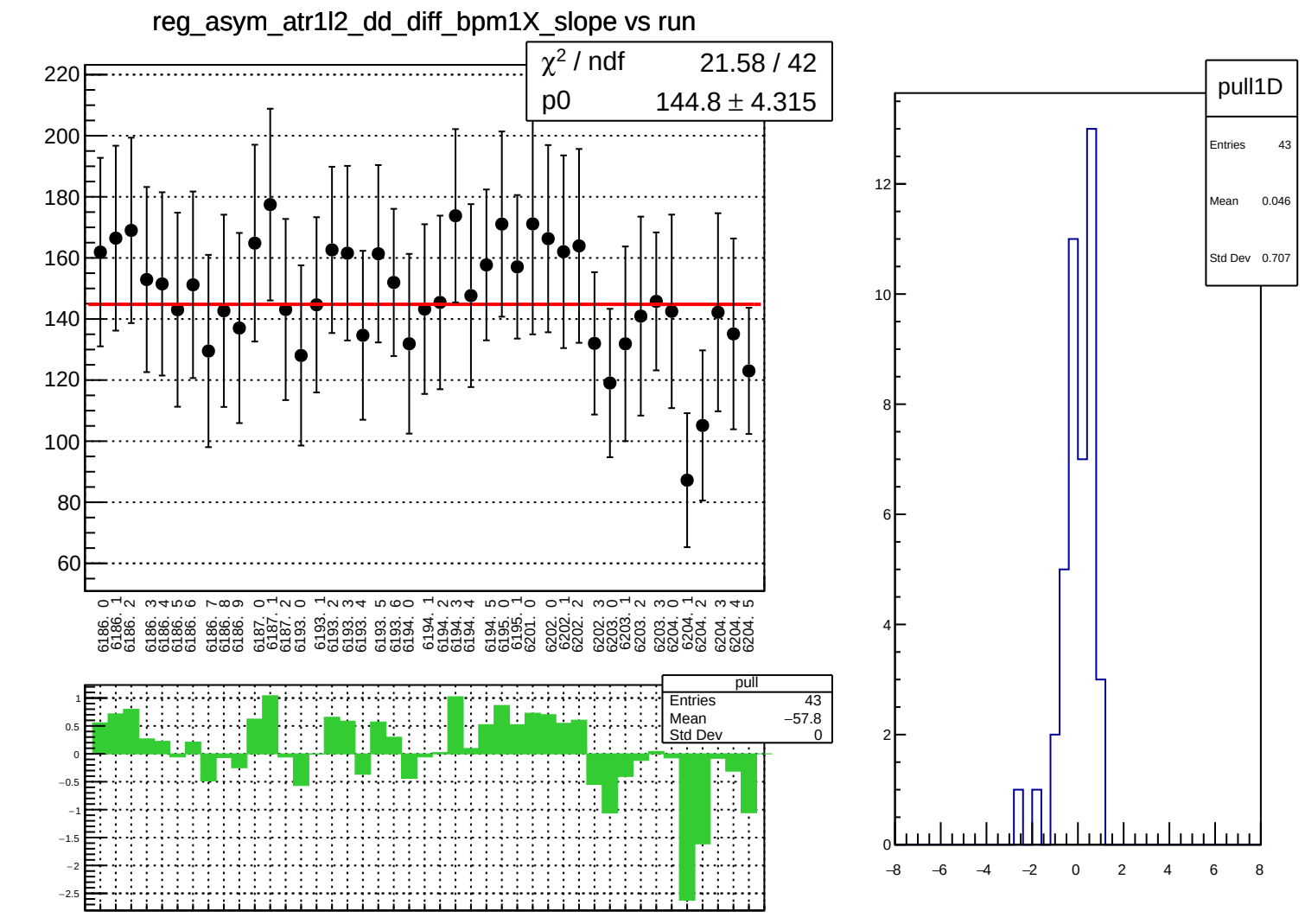

pull1D
Entries 43
Mean 0.002276
Std Dev 0.6823

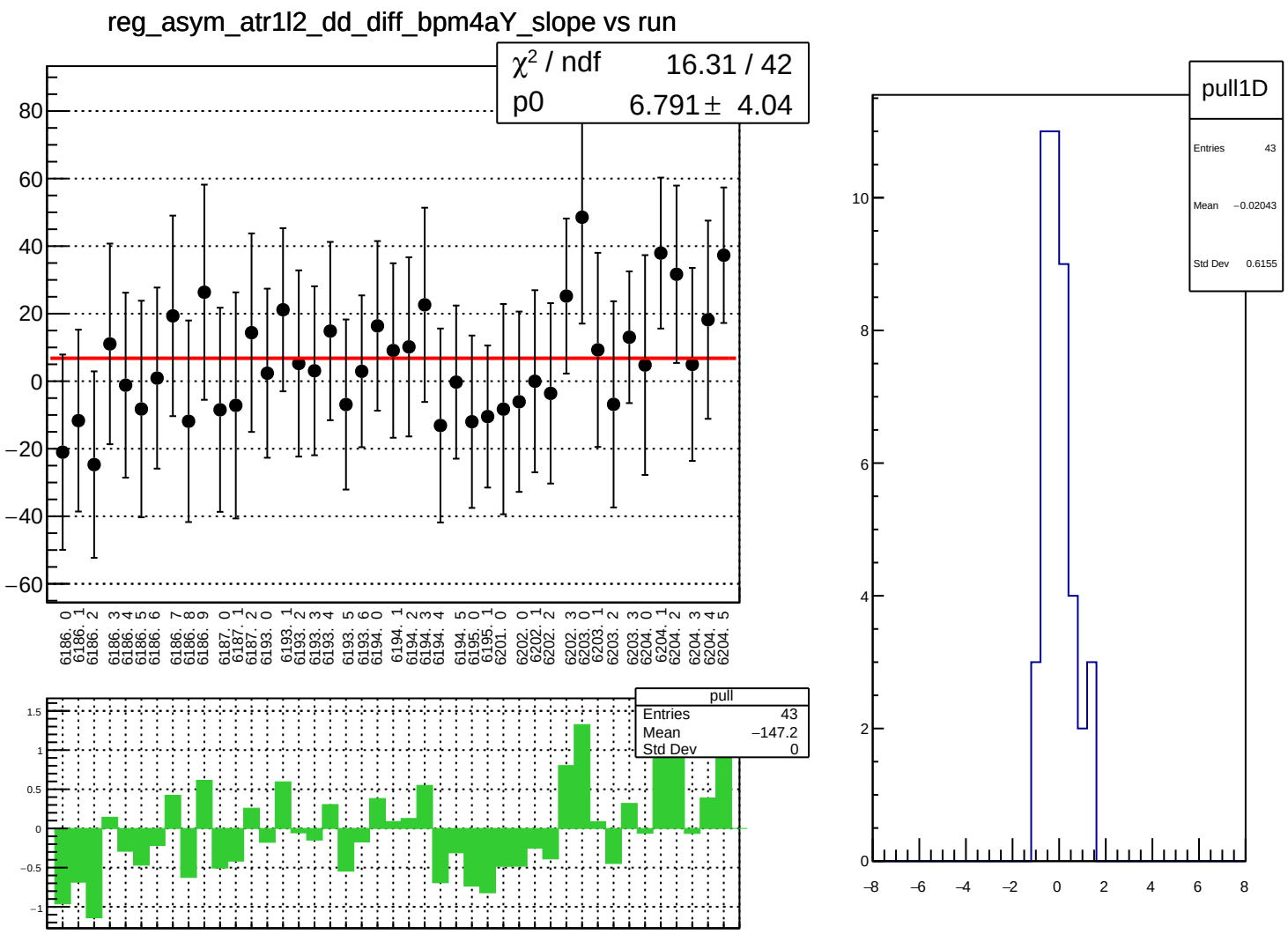

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.47 / 42
p0 188.9 ± 4.726
pull
Entries 43
Mean −69.61
Std Dev 0
pull1D
Entries 43
Mean 0.03793
Std Dev 0.8547

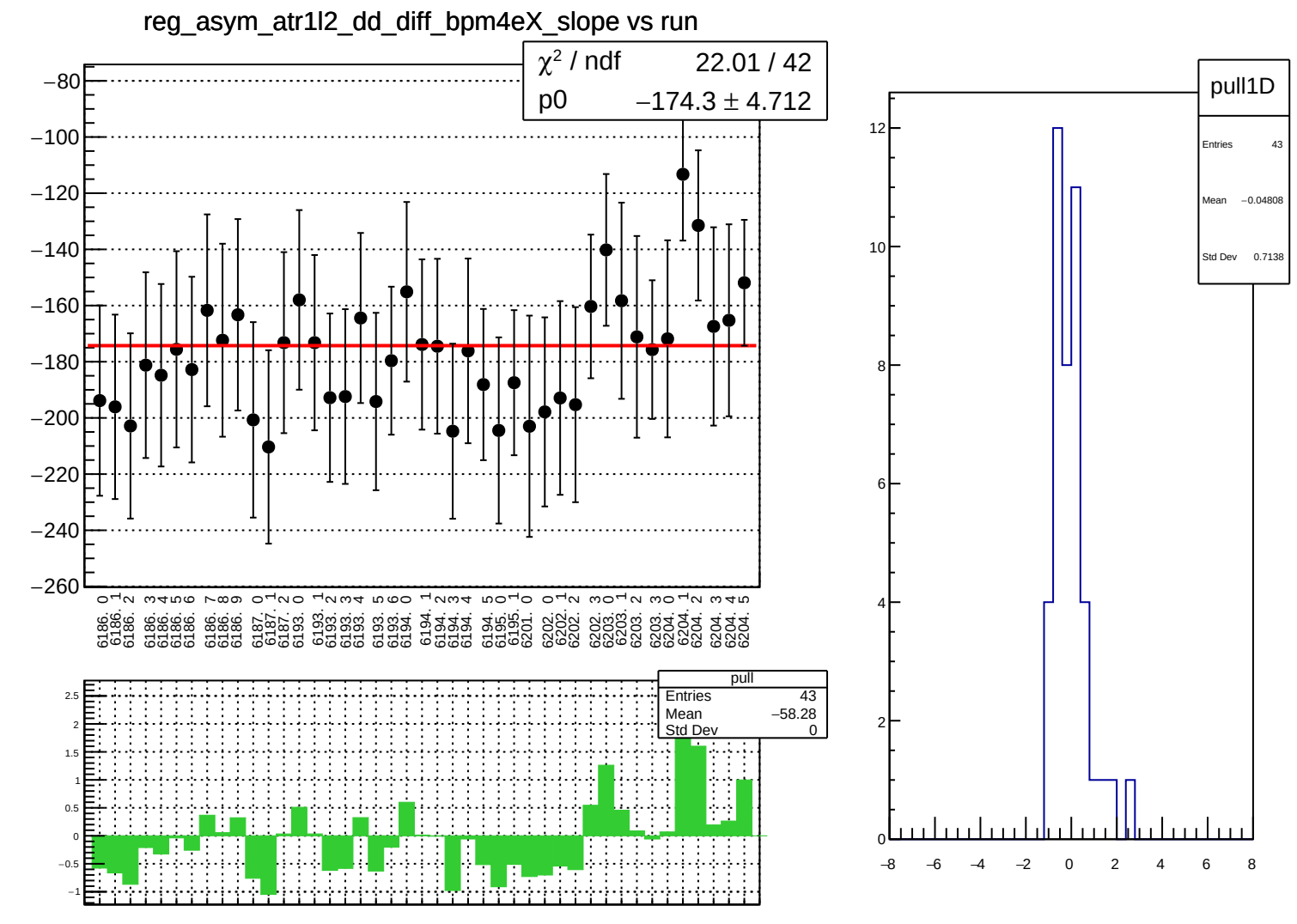

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.62 / 42
p0 56.73 ± 4.561
160
140
120
100
80
60
40
20
0
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −161.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.006227
Std Dev 0.7091
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

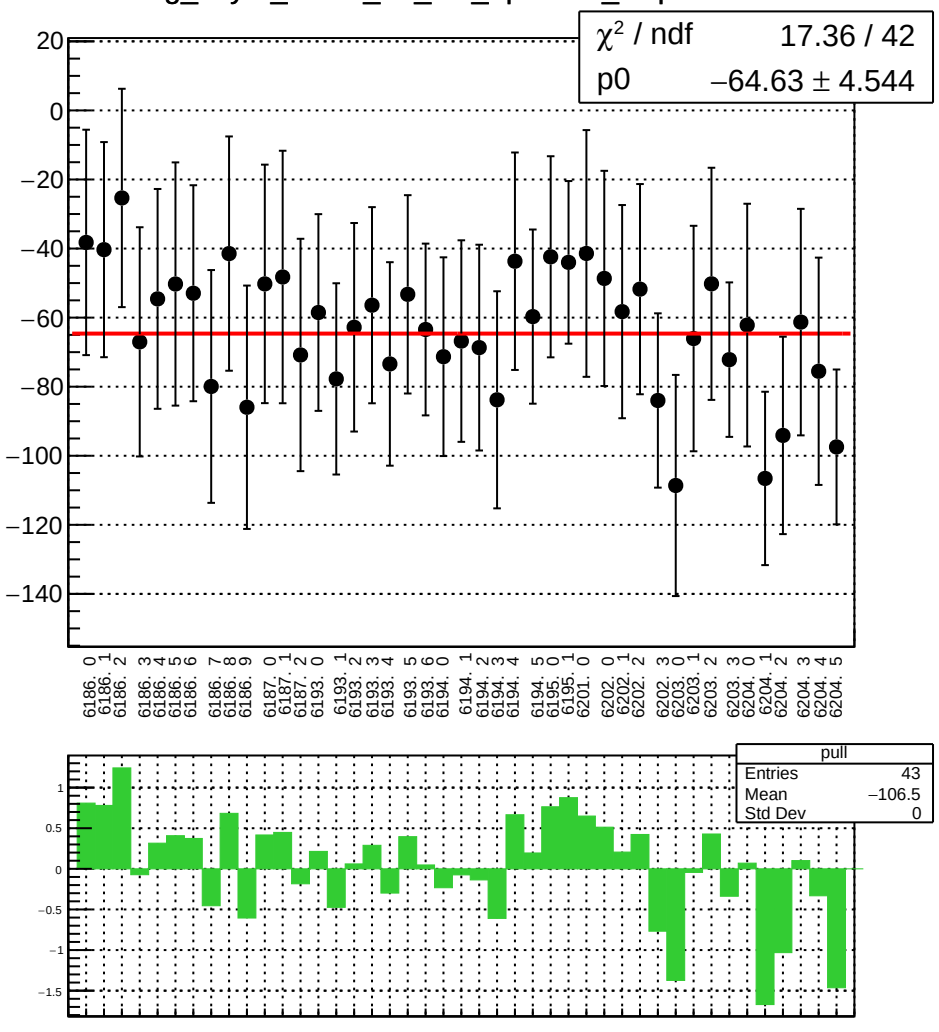

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 30.96 / 42
p0 −107.4 ± 0.3934
pull
Entries 43
Mean 709
Std Dev 0

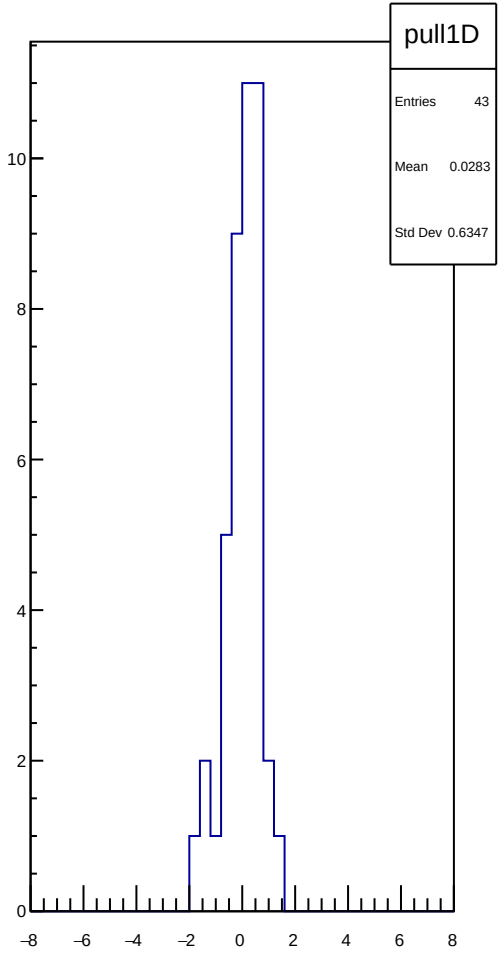

pull1D
Entries 43
Mean 0.004503
Std Dev 0.8485

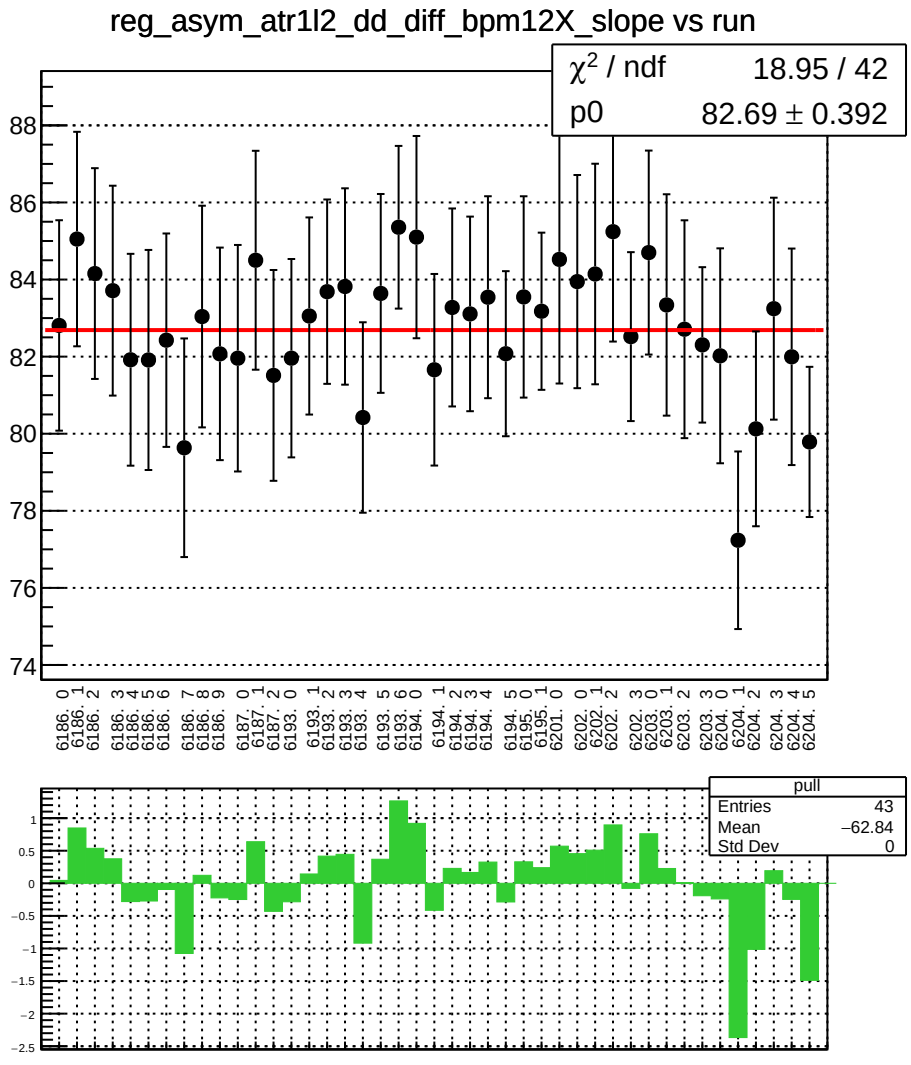

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 21.58 / 42
p0 144.8 ± 4.315
pull
Entries 43
Mean −57.8
Std Dev 0
pull1D
Entries 43
Mean 0.046
Std Dev 0.707

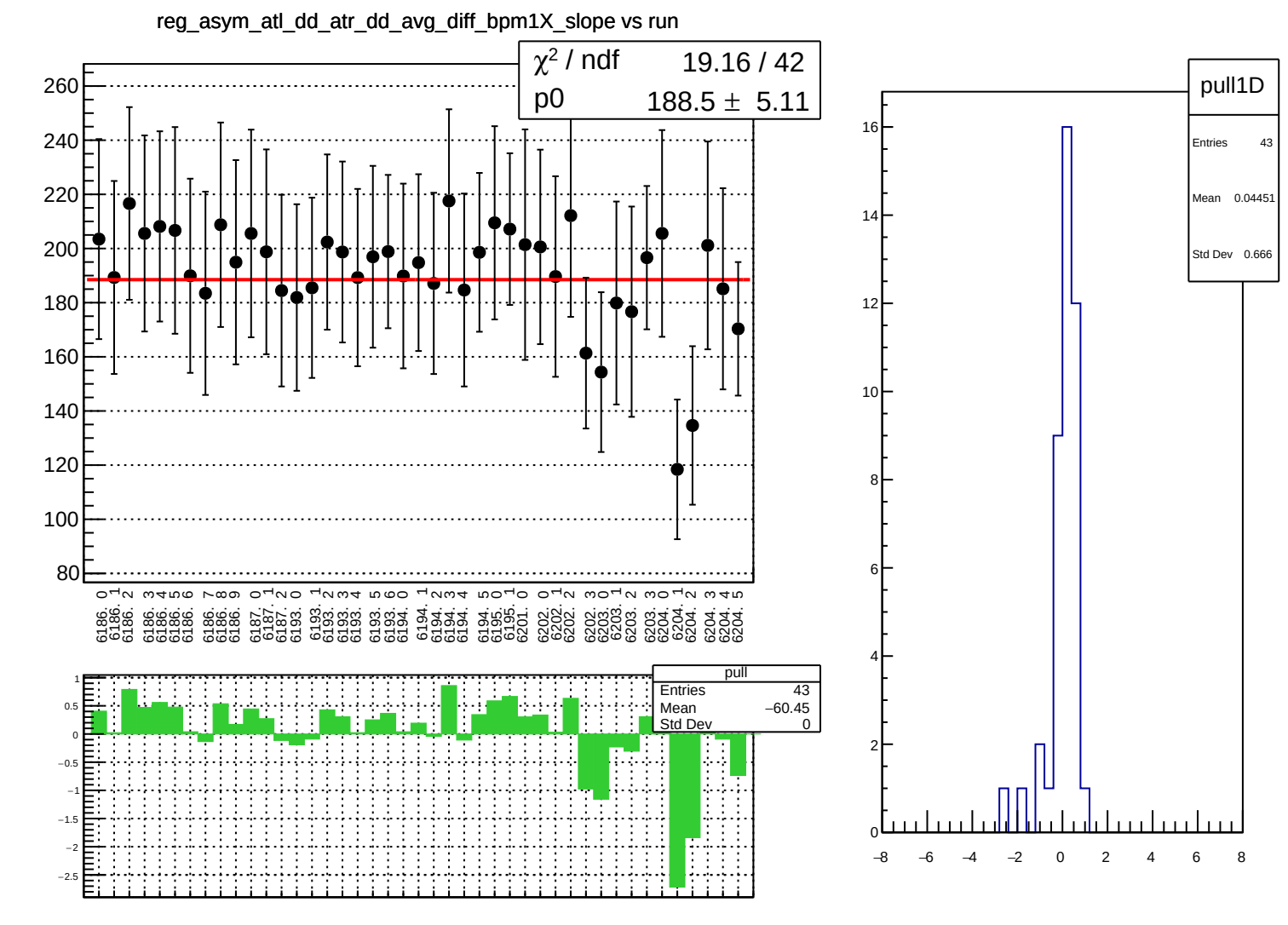

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.31 / 42
p0 6.791 ± 4.04
pull
Entries 43
Mean −147.2
Std Dev 0
pull1D
Entries 43
Mean −0.02043
Std Dev 0.6155

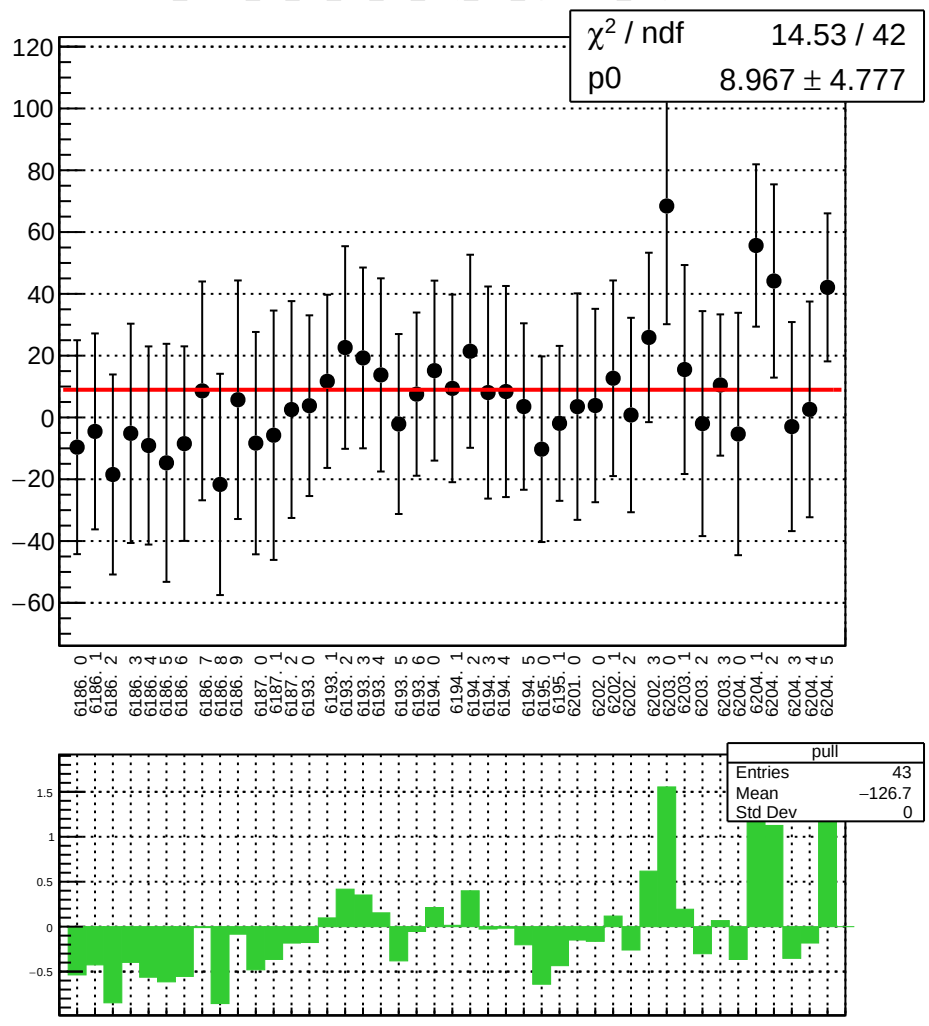

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.01 / 42
p0 −174.3 ± 4.712
pull
Entries 43
Mean −58.28
Std Dev 0
pull1D
Entries 43
Mean −0.04808
Std Dev 0.7138

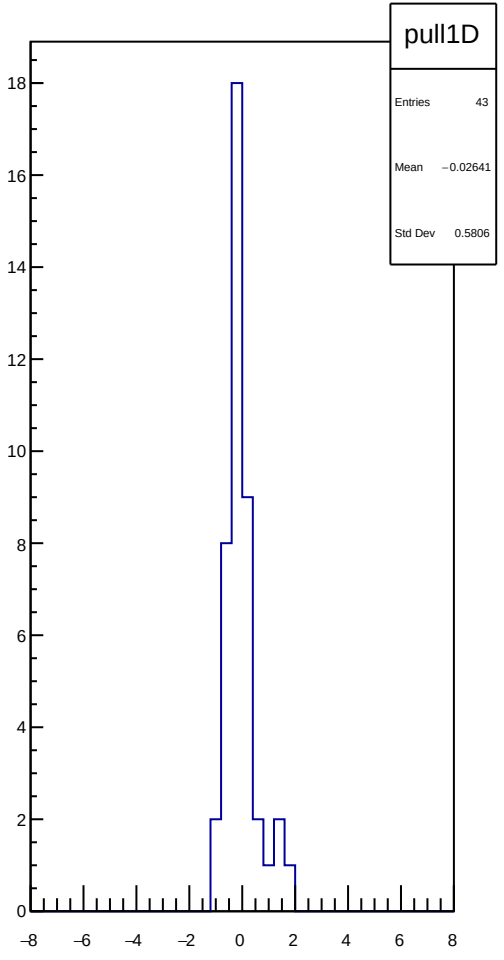

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.36 / 42
p0 −64.63 ± 4.544
pull
Entries 43
Mean −106.5
Std Dev 0

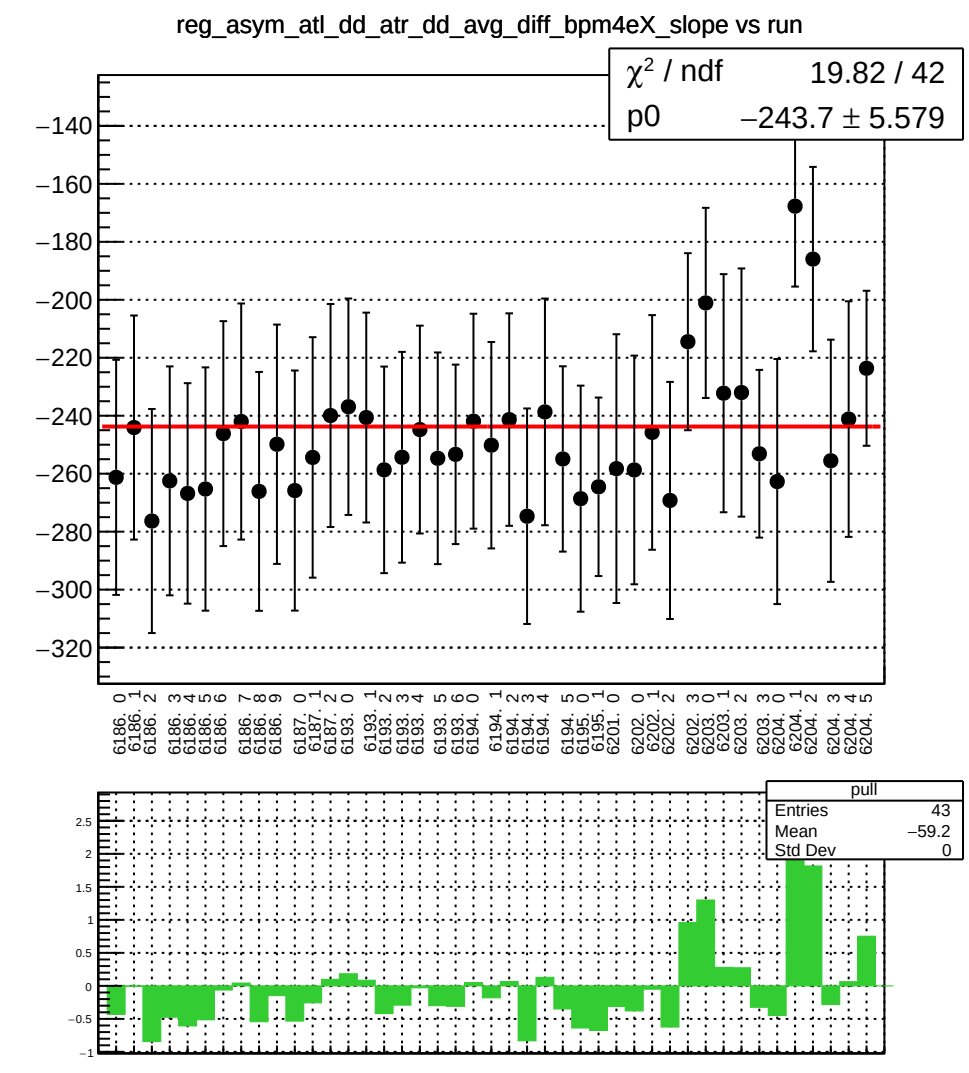

pull1D
Entries 43
Mean 0.0283
Std Dev 0.6347

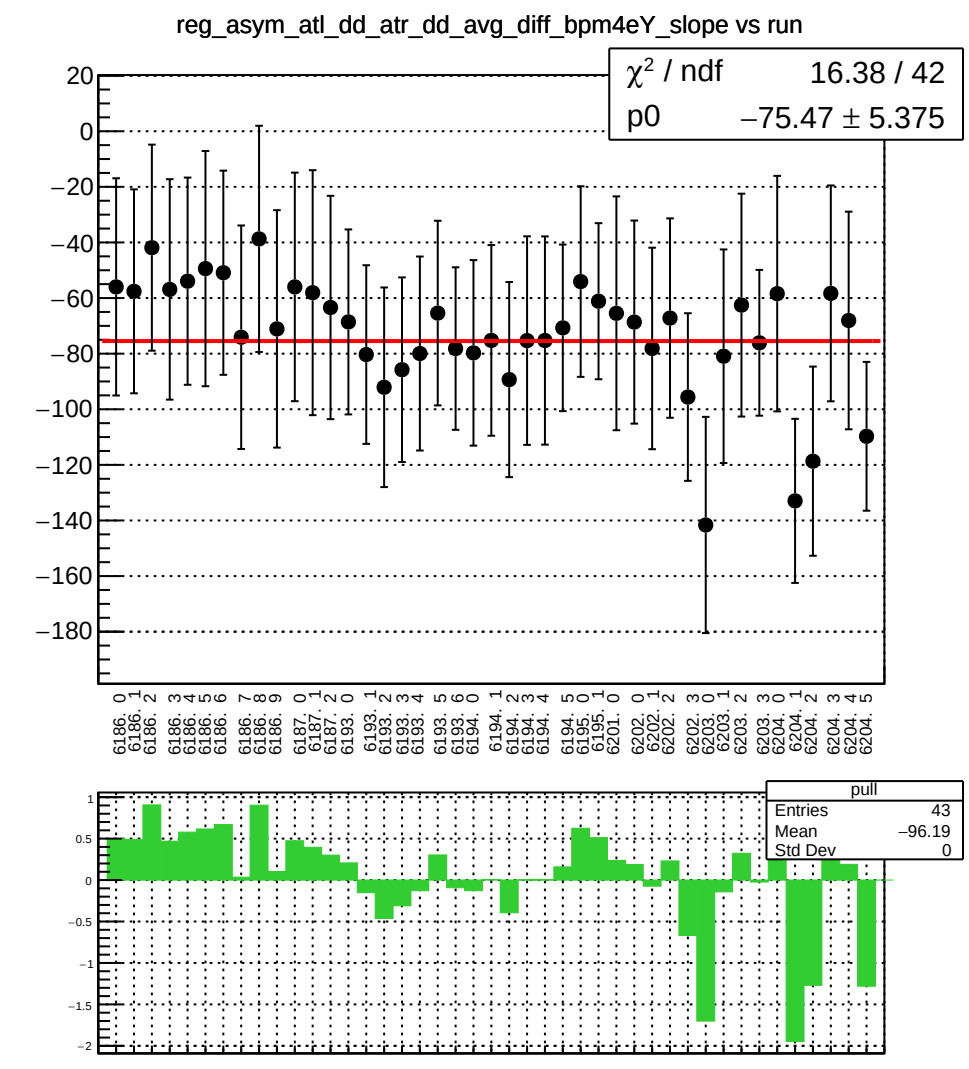

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 18.95 / 42
p0 82.69 ± 0.392
88
86
84
82
80
78
76
74
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −62.84
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.02041
Std Dev 0.6636
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

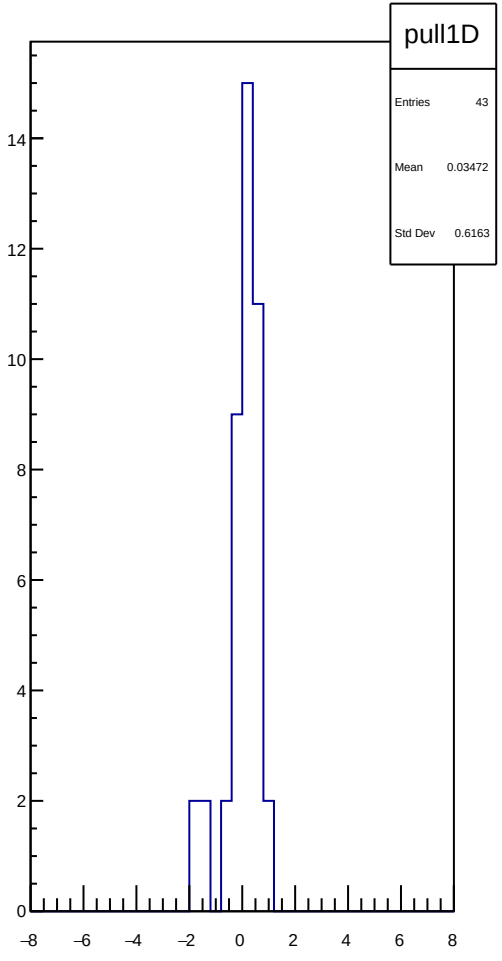

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 19.16 / 42
p0 188.5 ± 5.11
pull
Entries 43
Mean −60.45
Std Dev 0
pull1D
Entries 43
Mean 0.04451
Std Dev 0.666

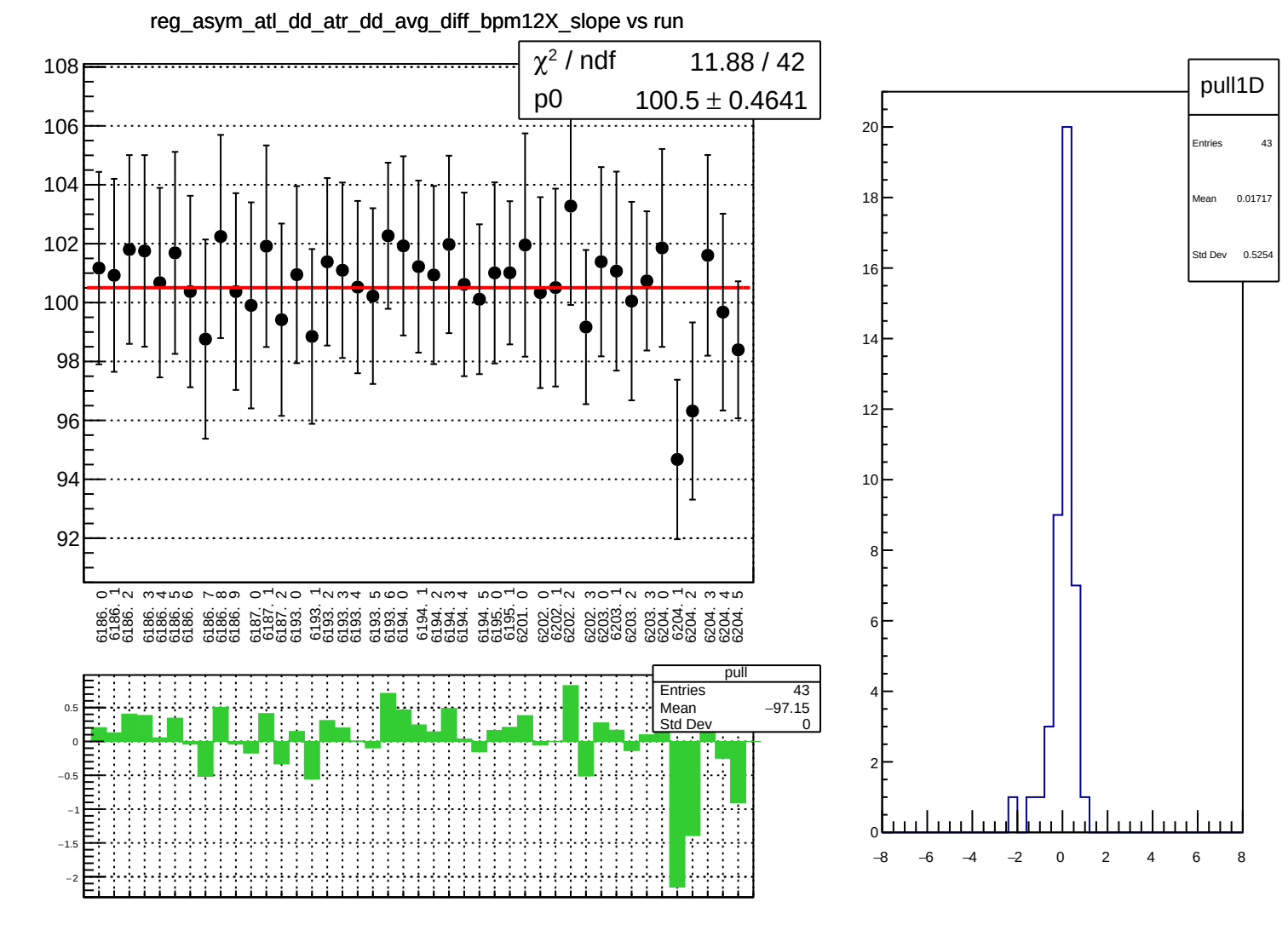

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.53 / 42
p0 8.967 ± 4.777
pull
Entries 43
Mean −126.7
Std Dev 0

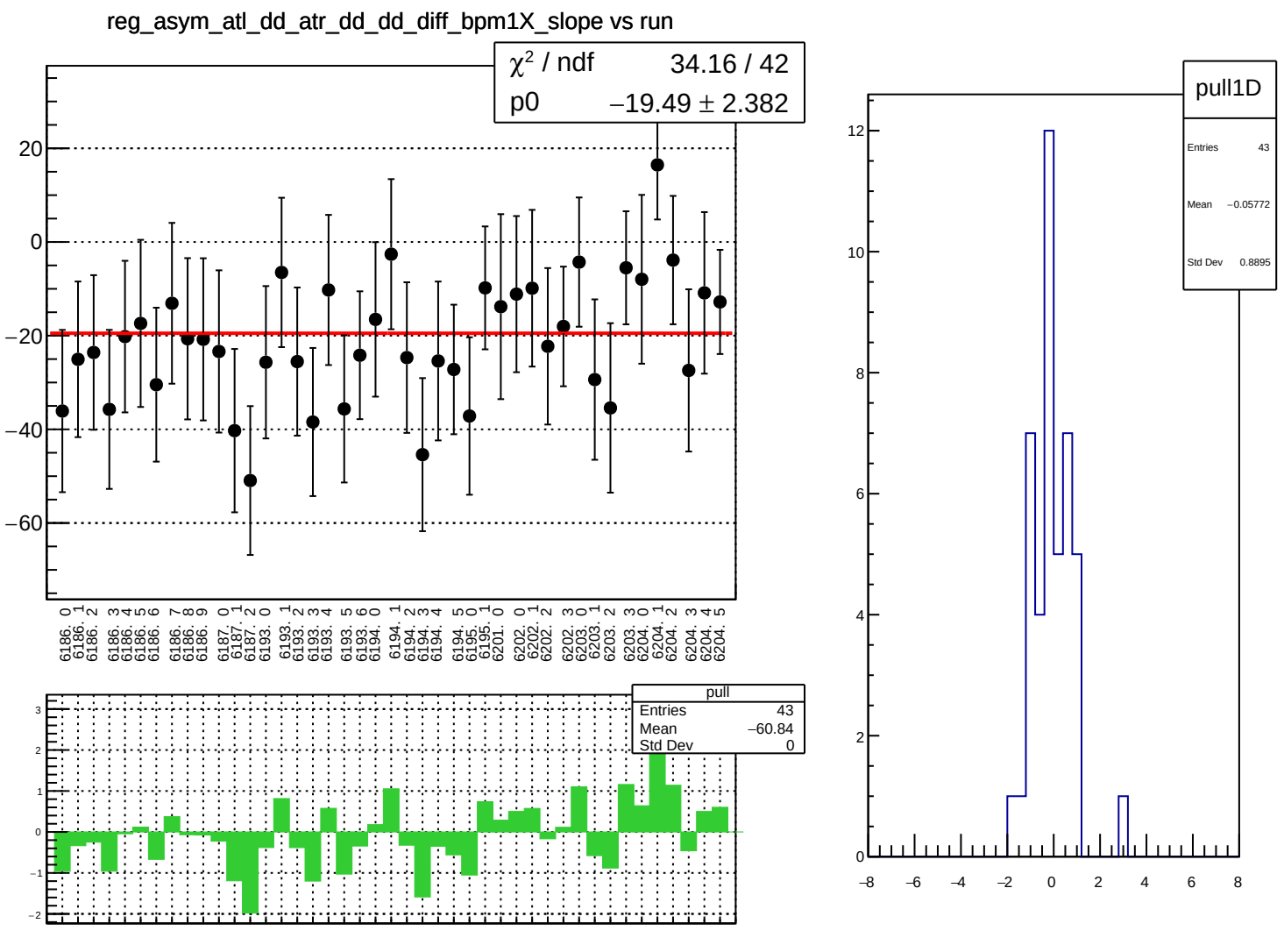

pull1D
Entries 43
Mean −0.02641
Std Dev 0.5806

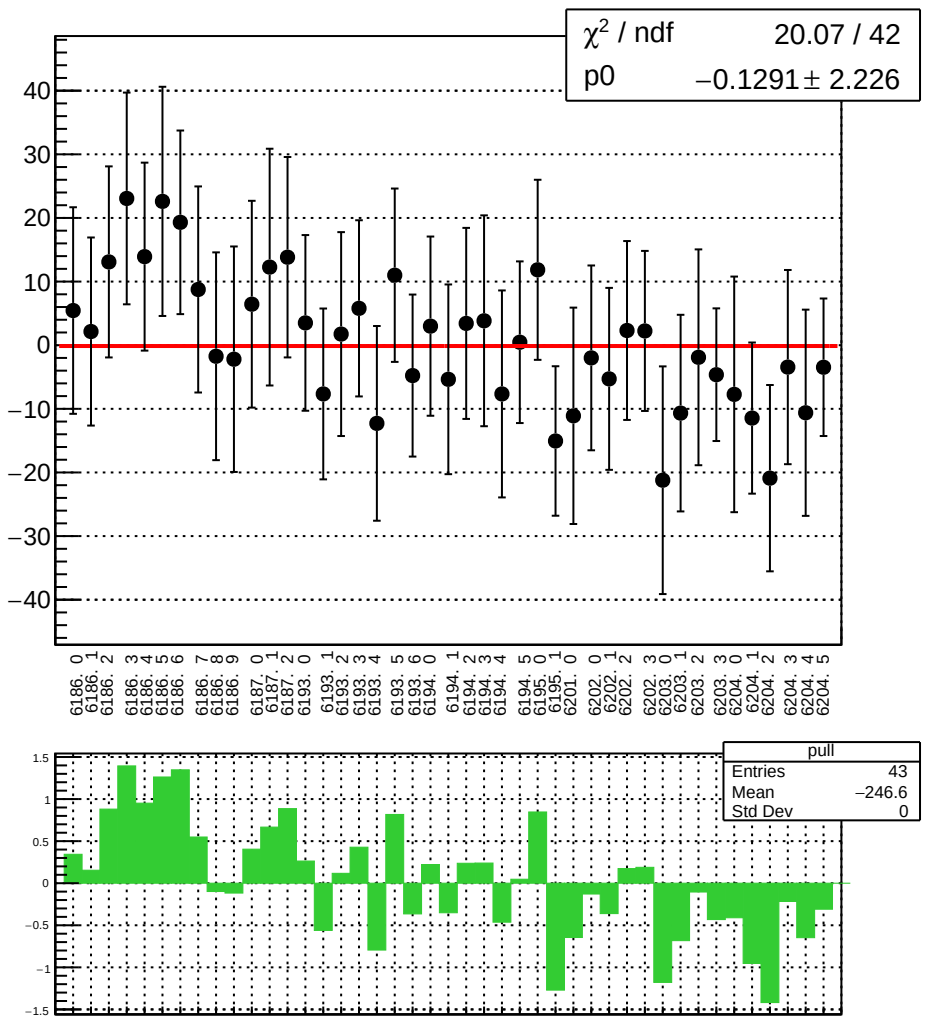

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.82 / 42
p0 −243.7 ± 5.579
−140
−160
−180
−200
−220
−240
−260
−280
−300
−320
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −59.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.04708
Std Dev 0.6773
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

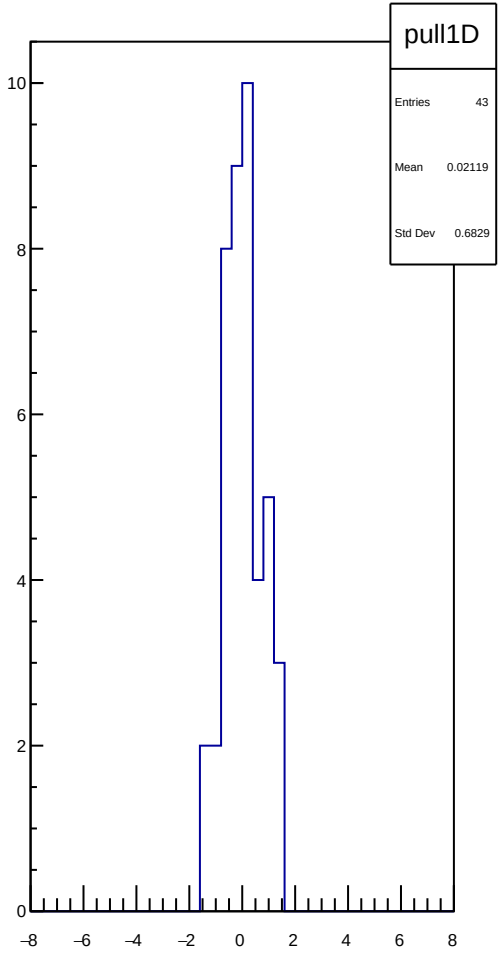

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.38 / 42
p0 −75.47 ± 5.375
pull
Entries 43
Mean −96.19
Std Dev 0

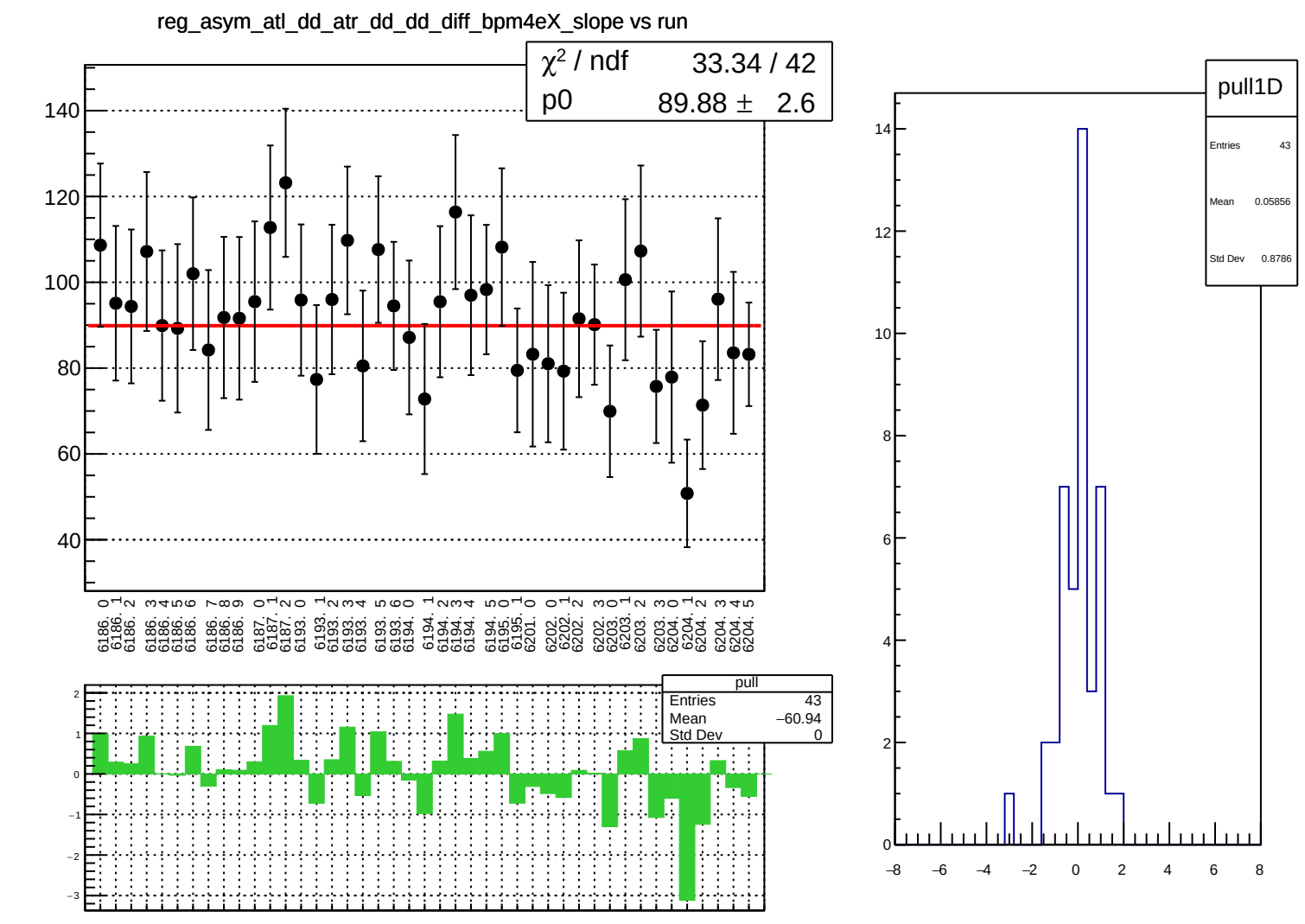

pull1D
Entries 43
Mean 0.03472
Std Dev 0.6163

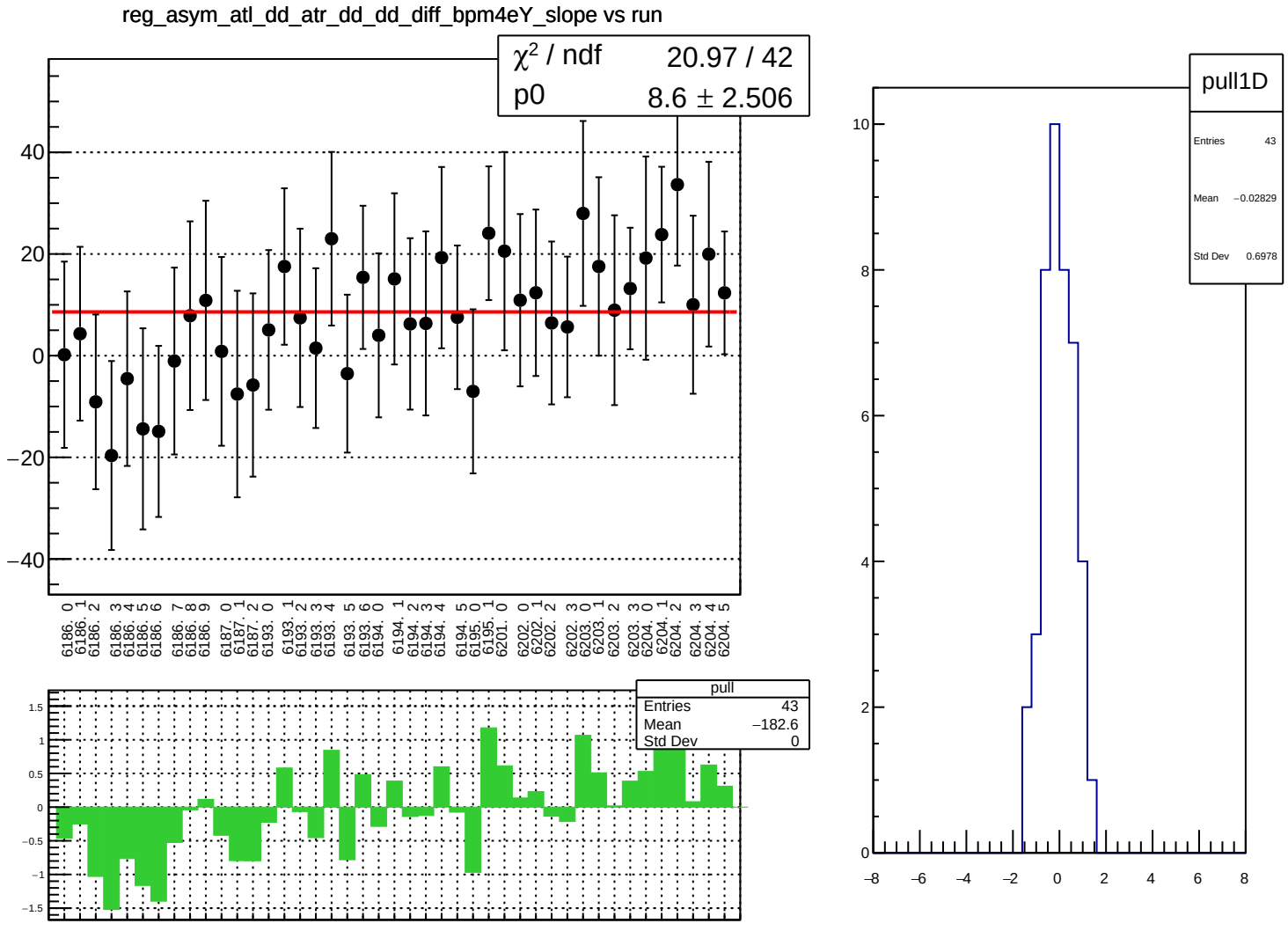

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 11.88 / 42
p0 100.5 ± 0.4641
pull
Entries 43
Mean −97.15
Std Dev 0
pull1D
Entries 43
Mean 0.01717
Std Dev 0.5254

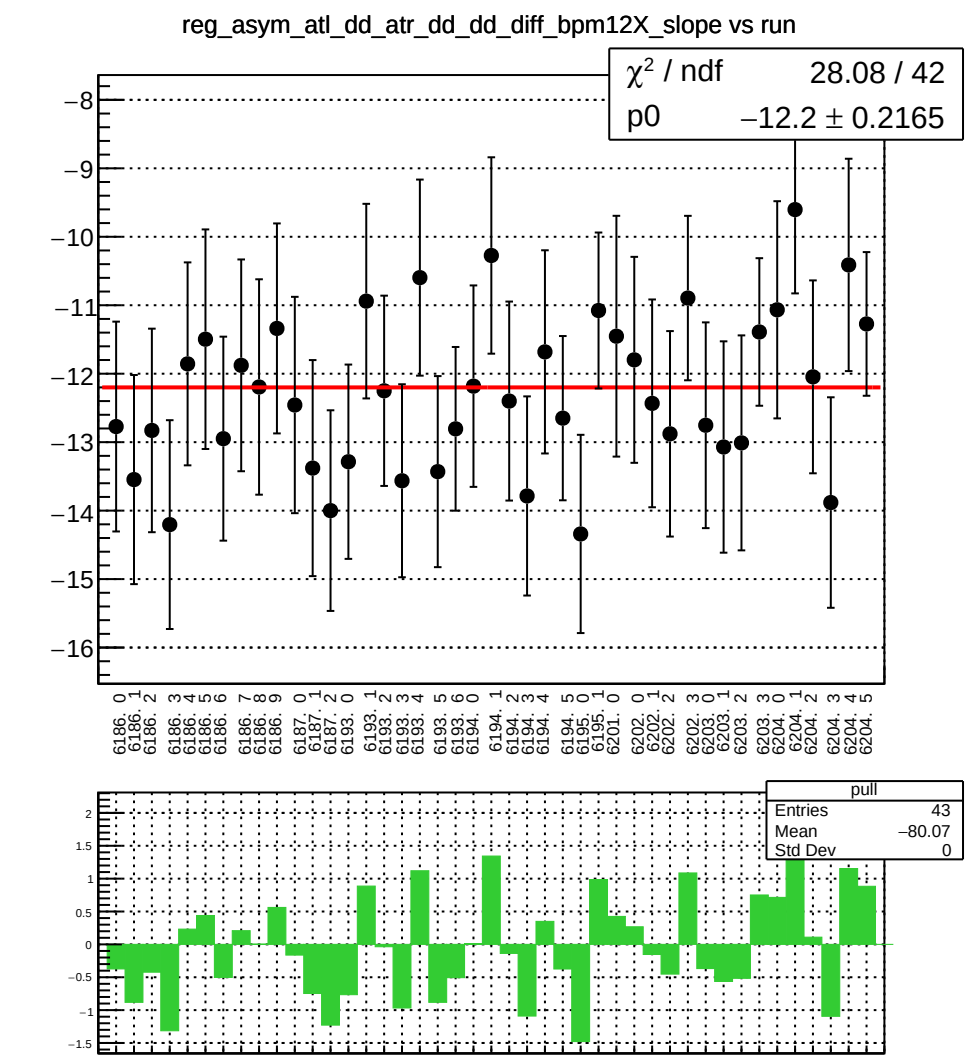

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 34.16 / 42
p0 −19.49 ± 2.382
20
0
−20
−40
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −60.84
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.05772
Std Dev 0.8895
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

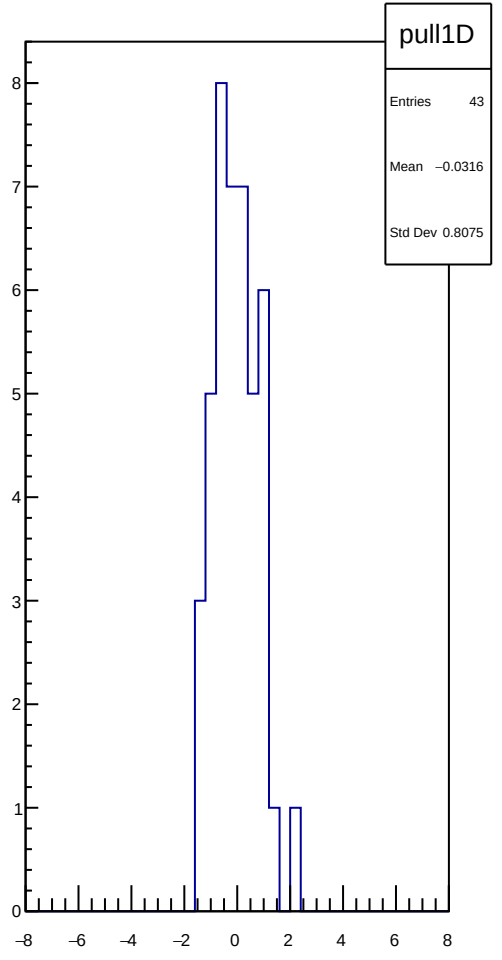

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.07 / 42
p0 −0.1291 ± 2.226
pull
Entries 43
Mean −246.6
Std Dev 0

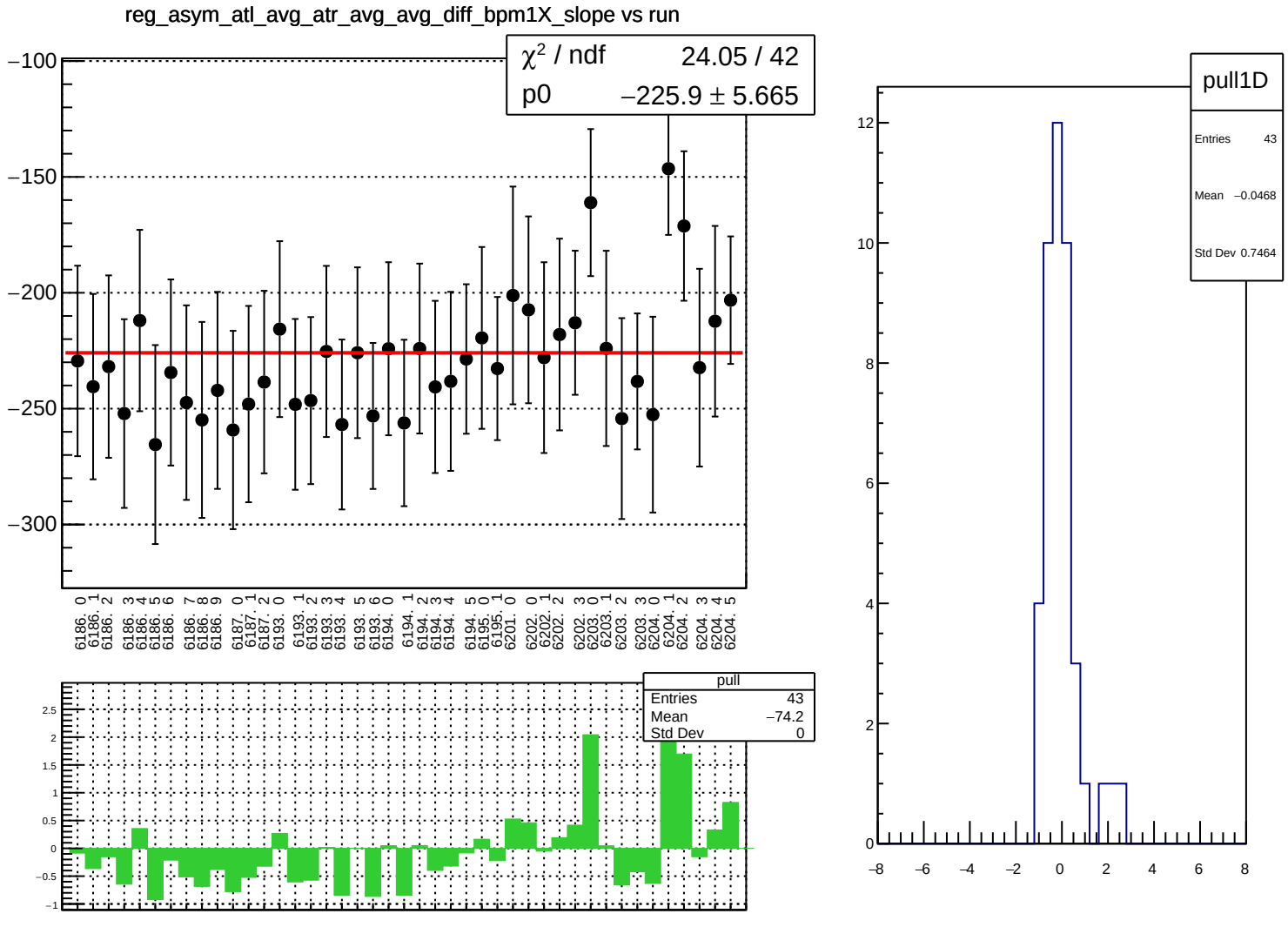

pull1D
Entries 43
Mean 0.02119
Std Dev 0.6829

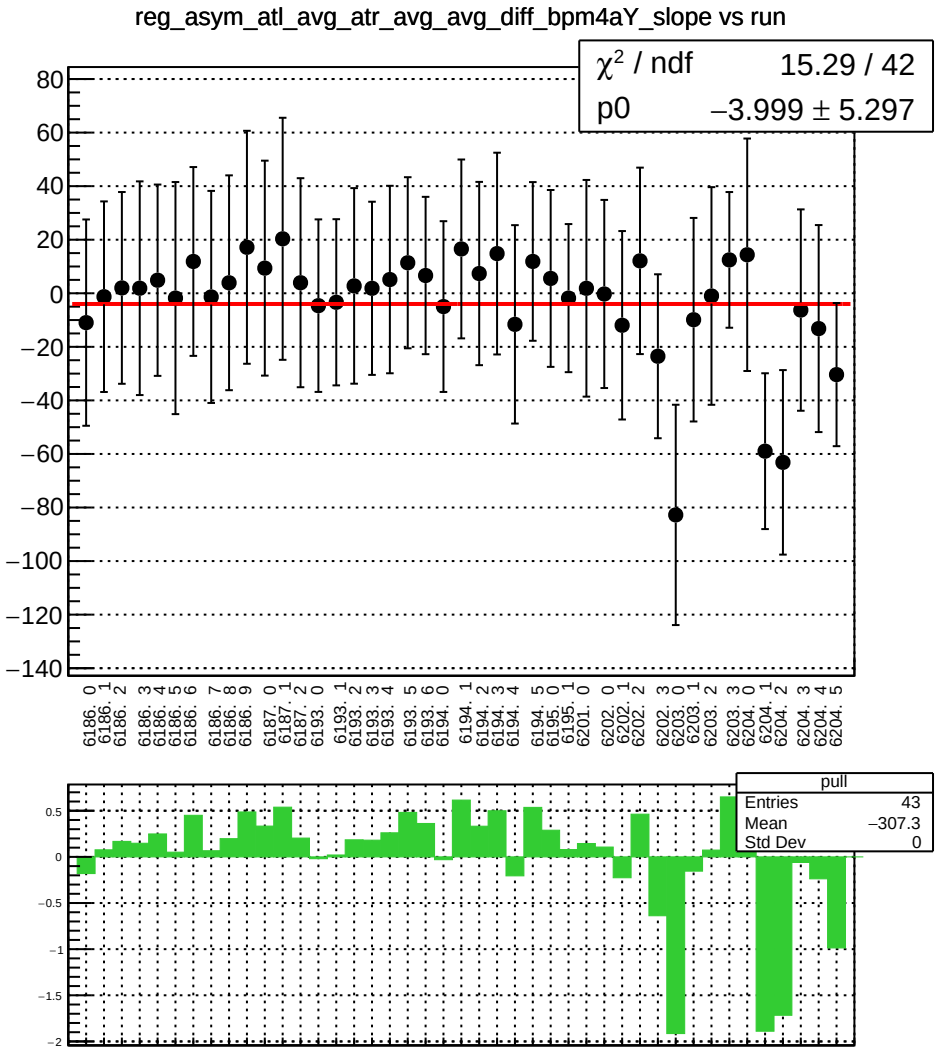

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.34 / 42
p0 89.88 ± 2.6
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −60.94
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.05856
Std Dev 0.8786
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

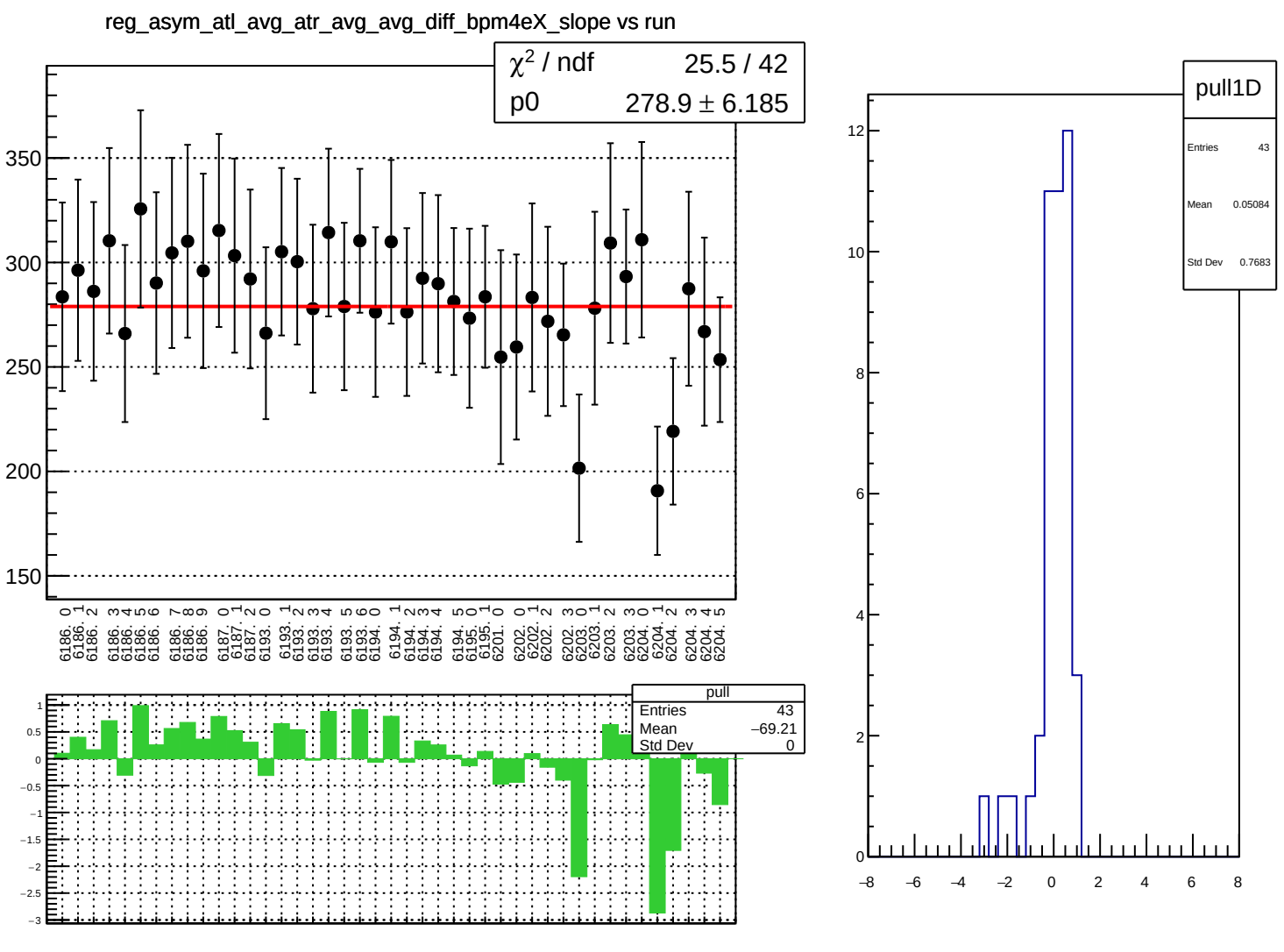

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.97 / 42
p0 8.6 ± 2.506
40
20
0
−20
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −182.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02829
Std Dev 0.6978
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

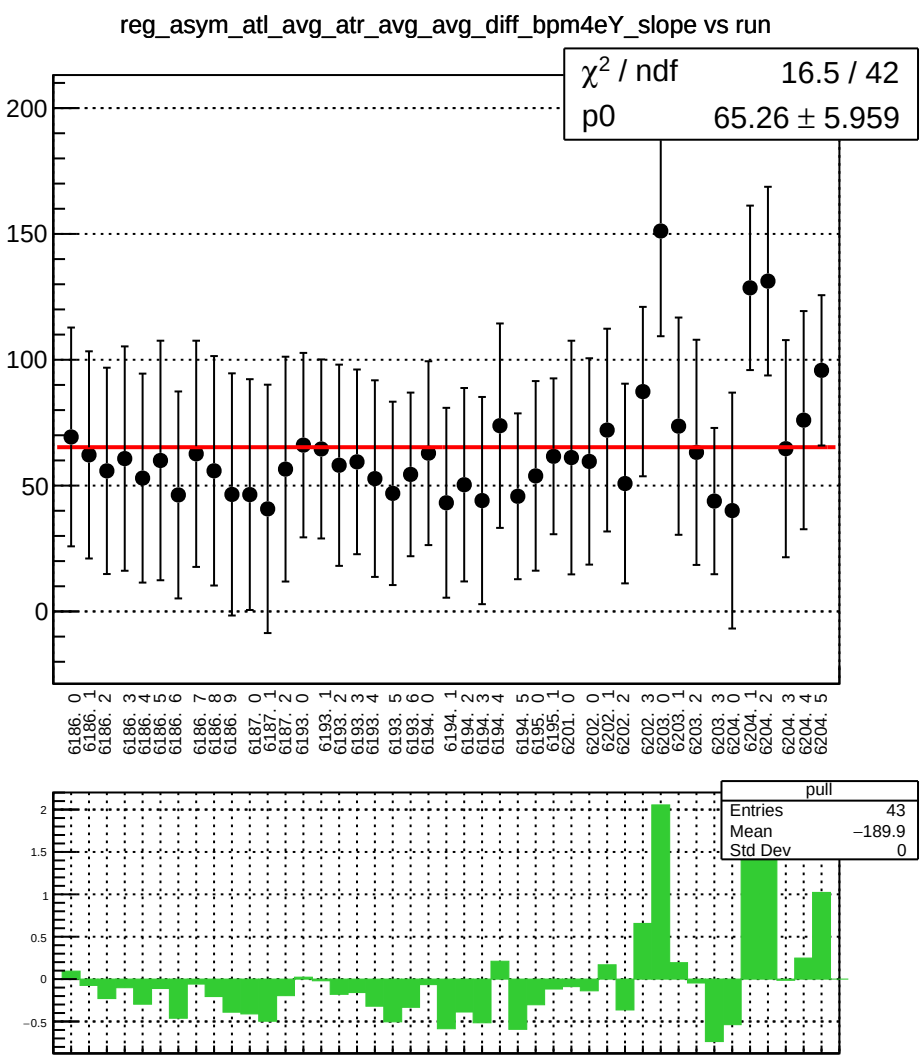

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 28.08 / 42
p0 −12.2 ± 0.2165
pull
Entries 43
Mean −80.07
Std Dev 0

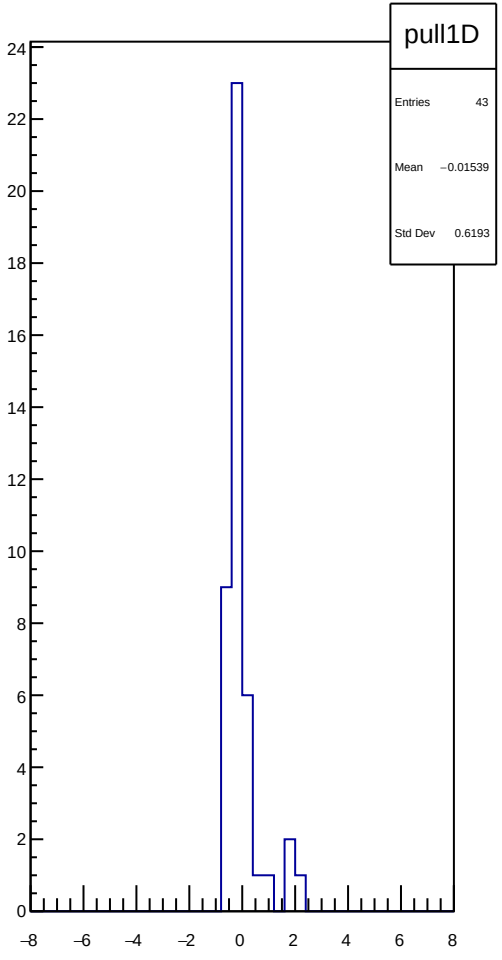

pull1D
Entries 43
Mean −0.0316
Std Dev 0.8075

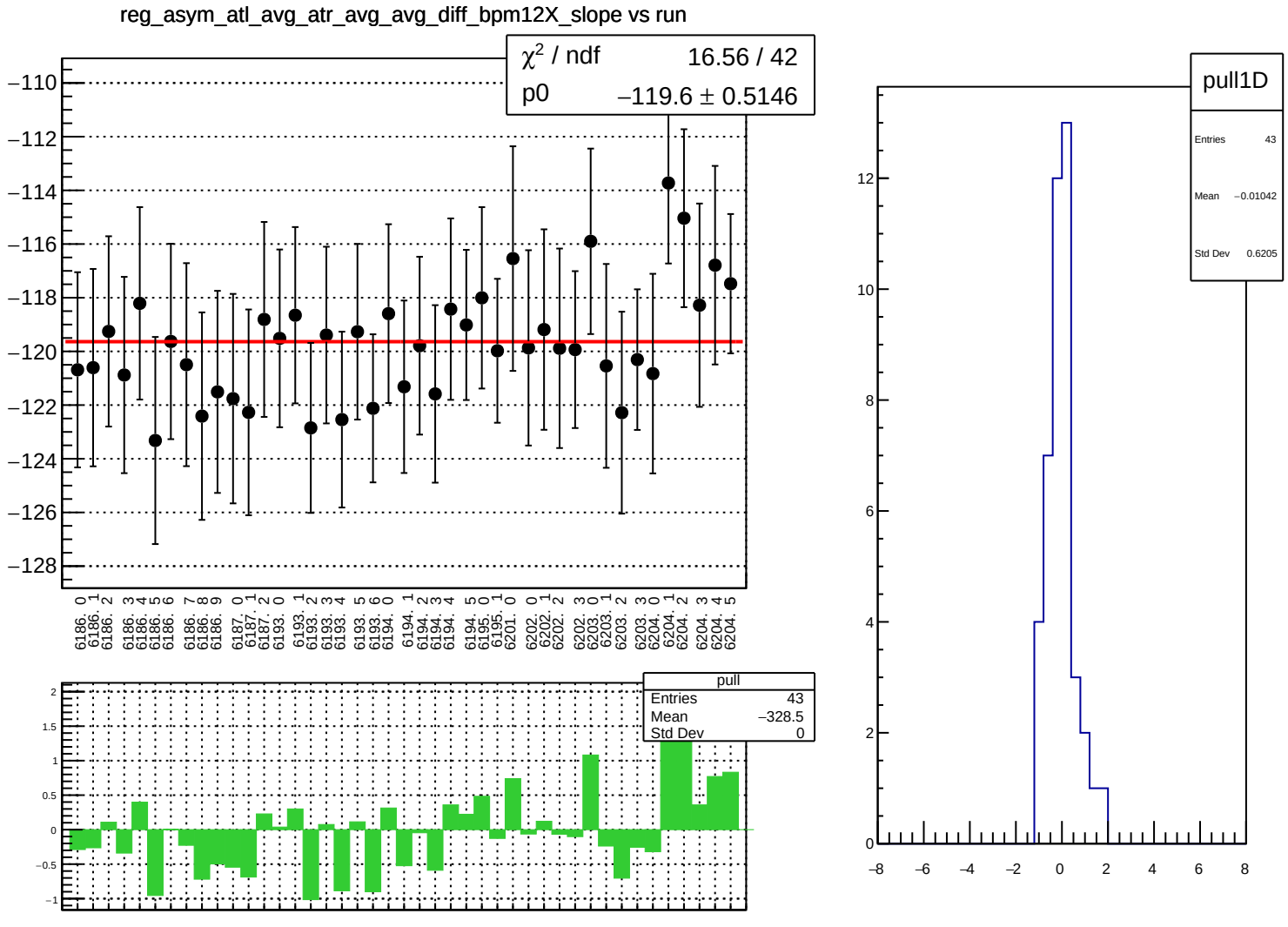

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 24.05 / 42
p0 −225.9 ± 5.665
−100
−150
−200
−250
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −74.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.0468
Std Dev 0.7464
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

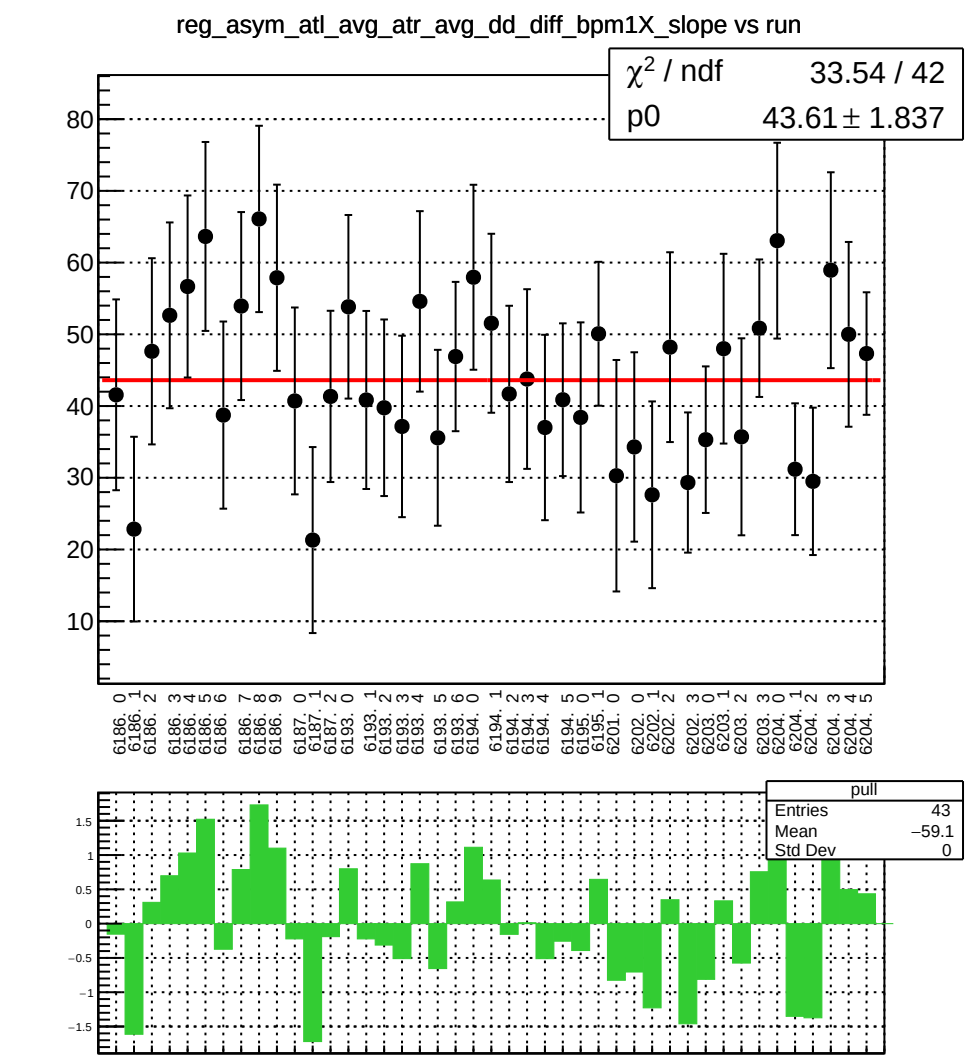

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.29 / 42
p0 −3.999 ± 5.297
pull
Entries 43
Mean −307.3
Std Dev 0
pull1D
Entries 43
Mean 0.009592
Std Dev 0.5962

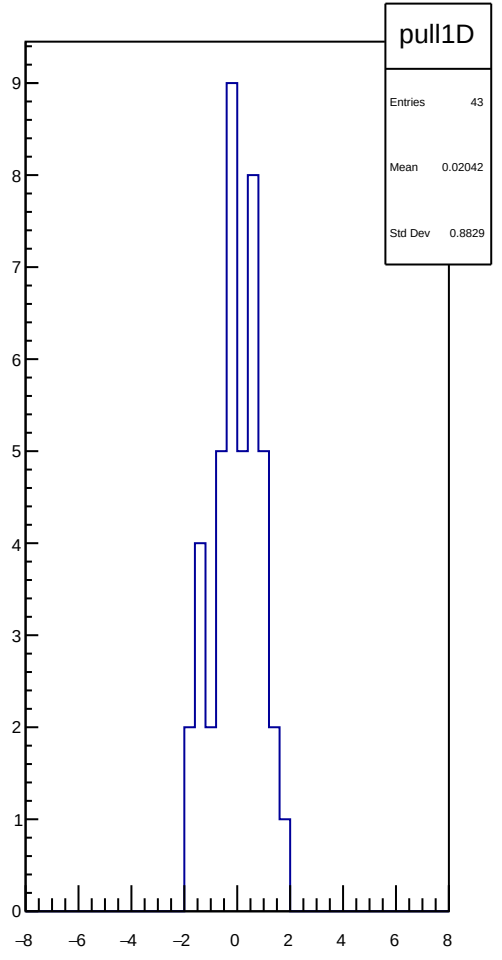

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.5 / 42
p0 278.9 ± 6.185
350
300
250
200
150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −69.21
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 43
Mean 0.05084
Std Dev 0.7683
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

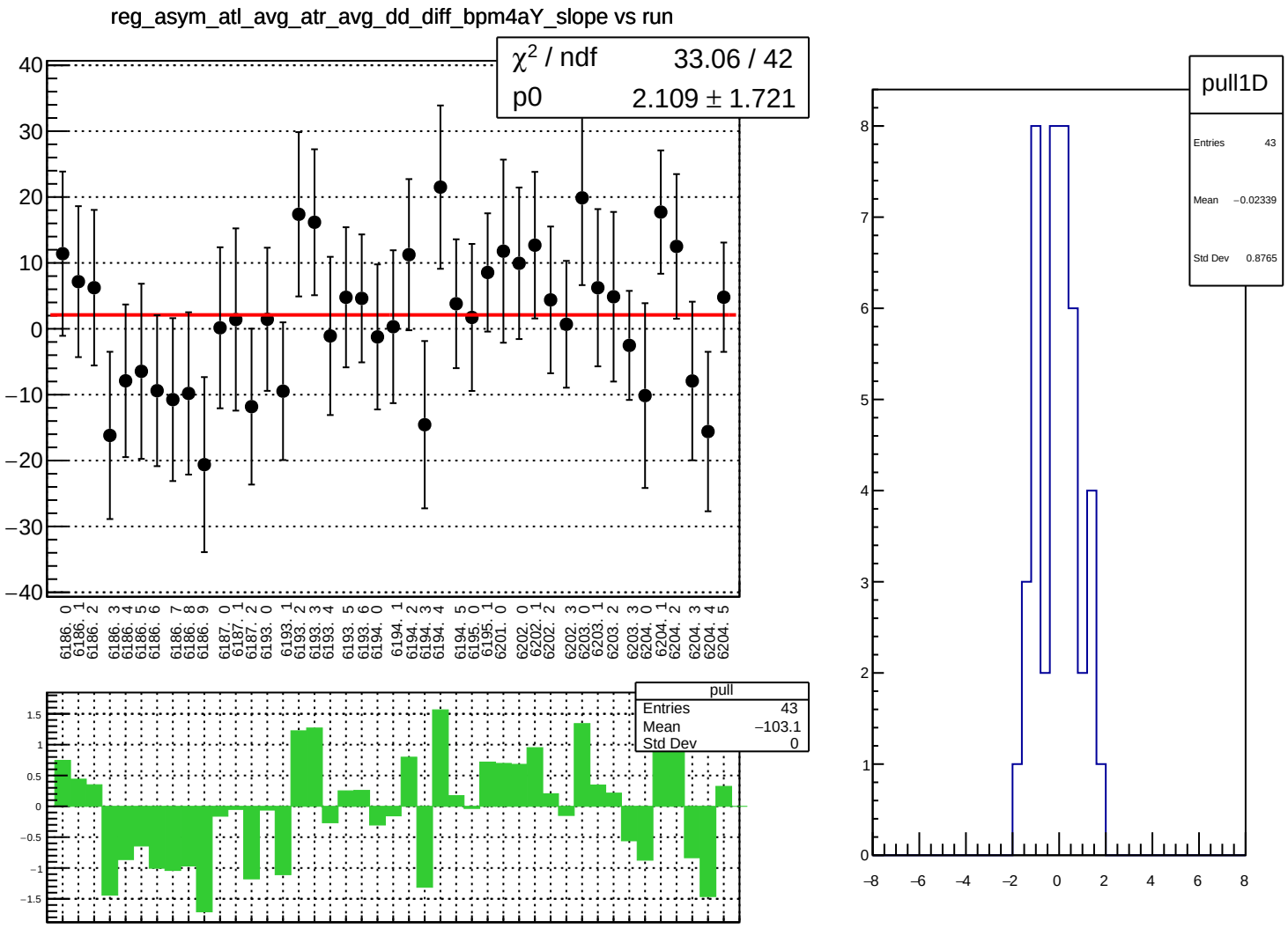

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.5 / 42
p0 65.26 ± 5.959
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −189.9
Std Dev 0
2
1.5
1
0.5
0
−0.5

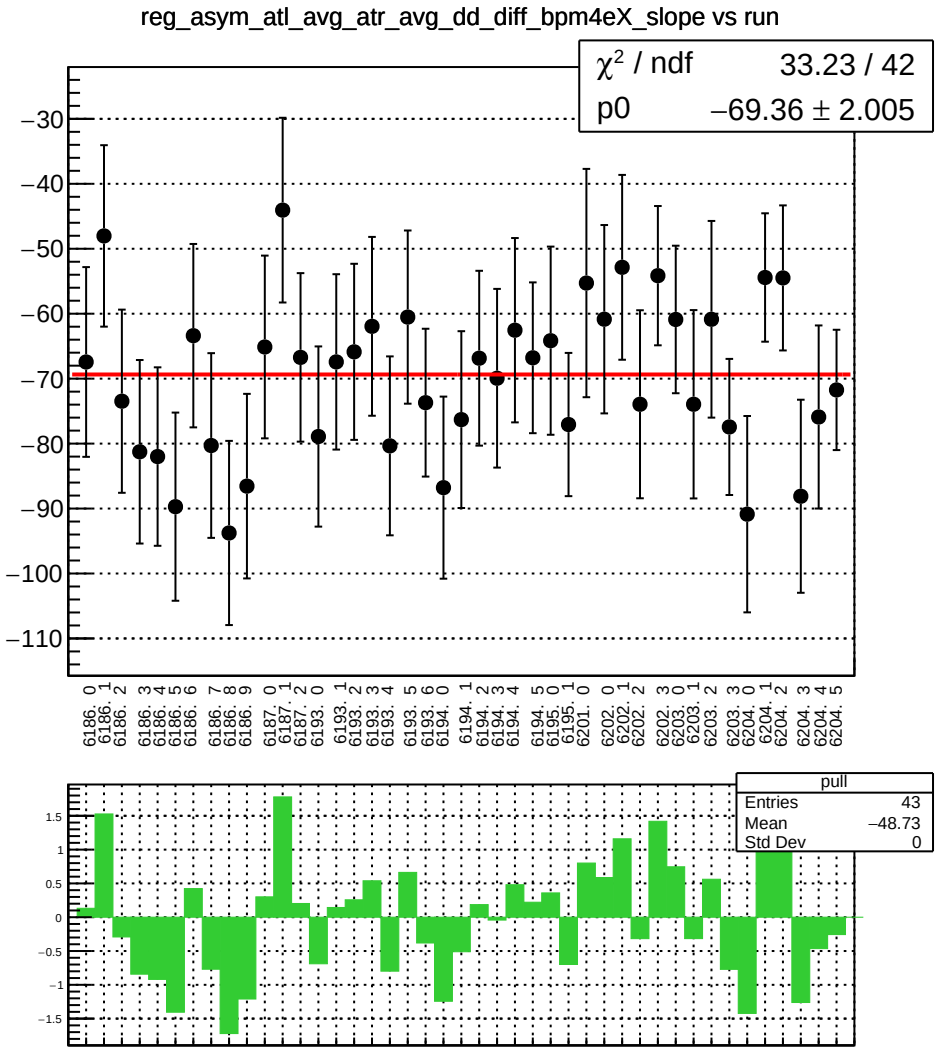

pull1D
Entries 43
Mean −0.01539
Std Dev 0.6193
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

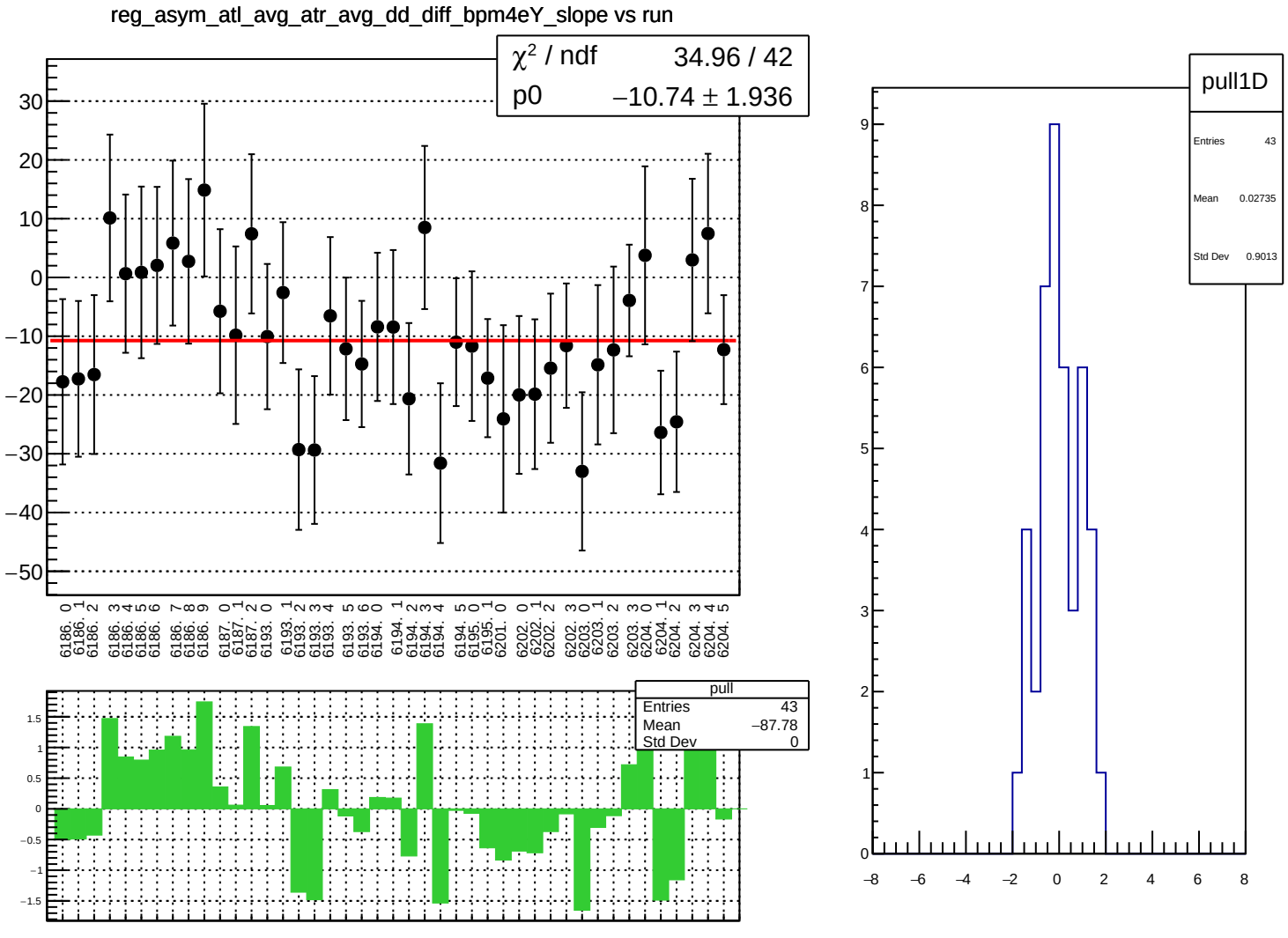

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 16.56 / 42
p0 −119.6 ± 0.5146
pull
Entries 43
Mean −328.5
Std Dev 0
pull1D
Entries 43
Mean −0.01042
Std Dev 0.6205

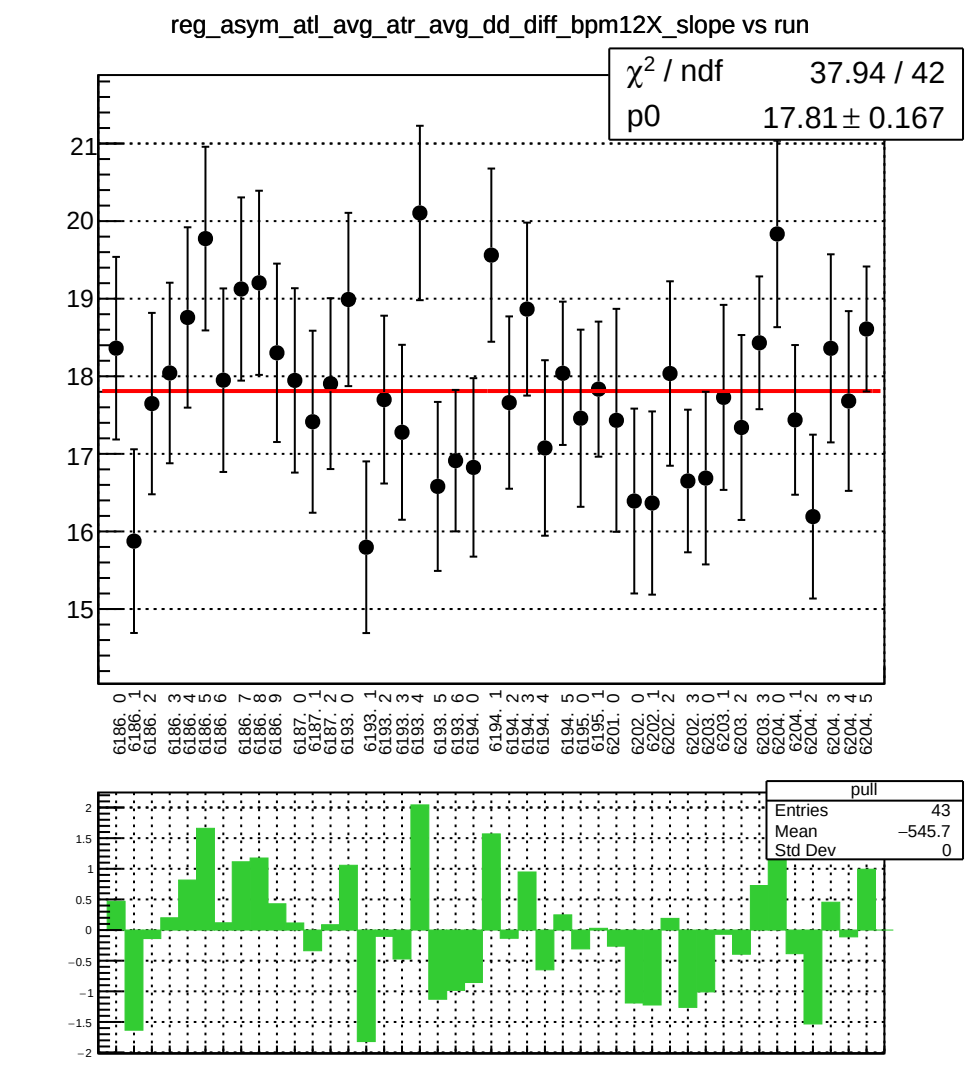

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 33.54 / 42
p0 43.61 ± 1.837
pull
Entries 43
Mean −59.1
Std Dev 0

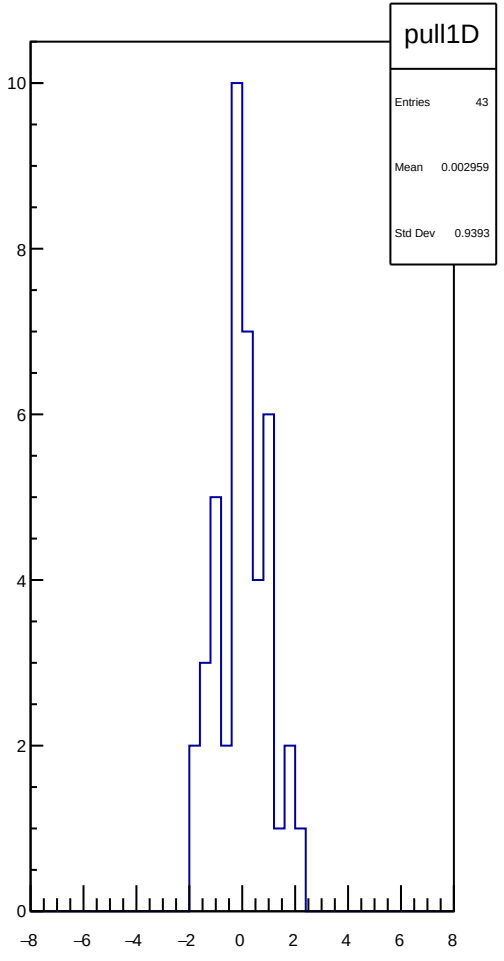

pull1D
Entries 43
Mean 0.02042
Std Dev 0.8829

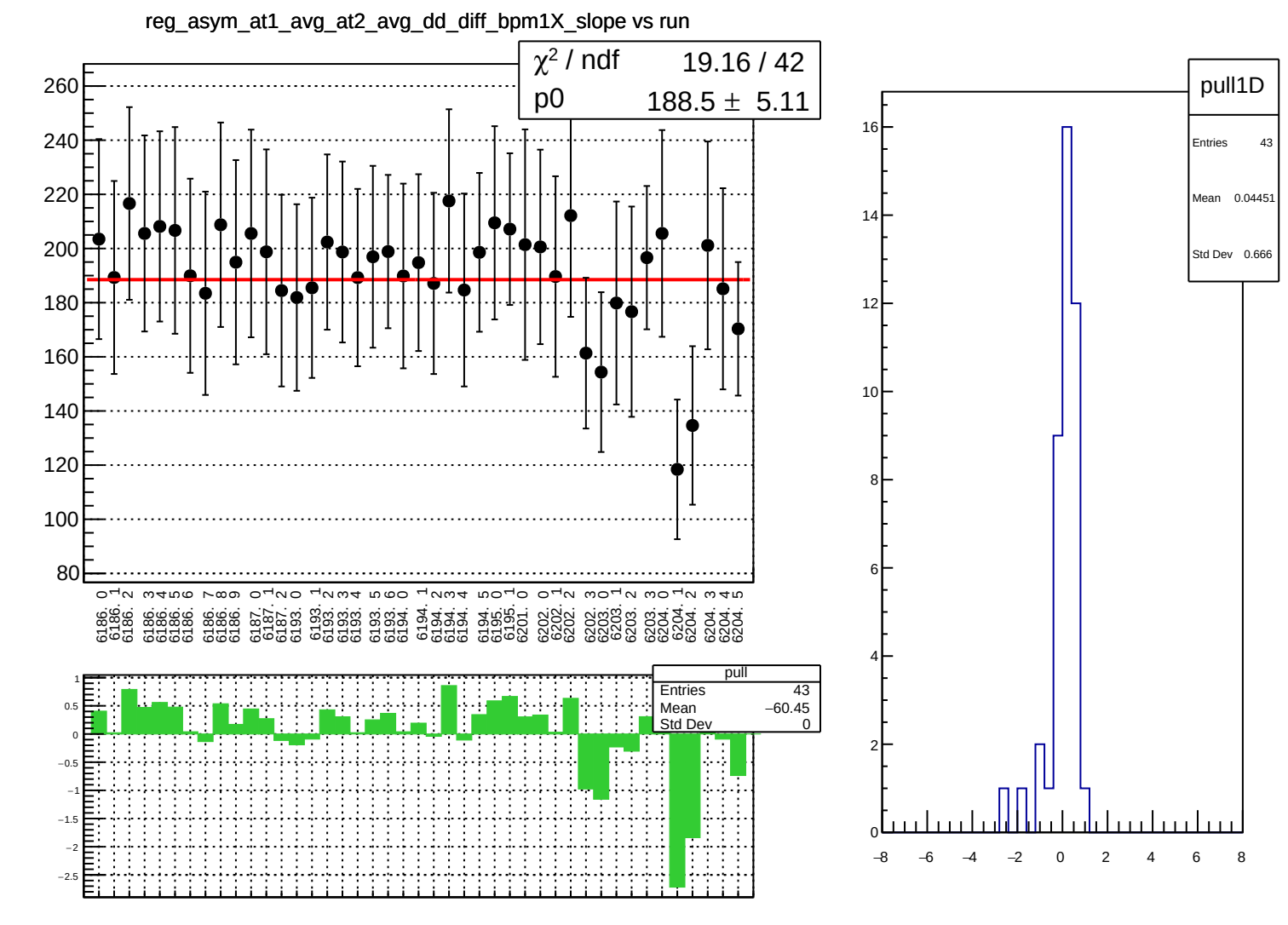

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.06 / 42
p0 2.109 ± 1.721
pull
Entries 43
Mean −103.1
Std Dev 0
pull1D
Entries 43
Mean −0.02339
Std Dev 0.8765

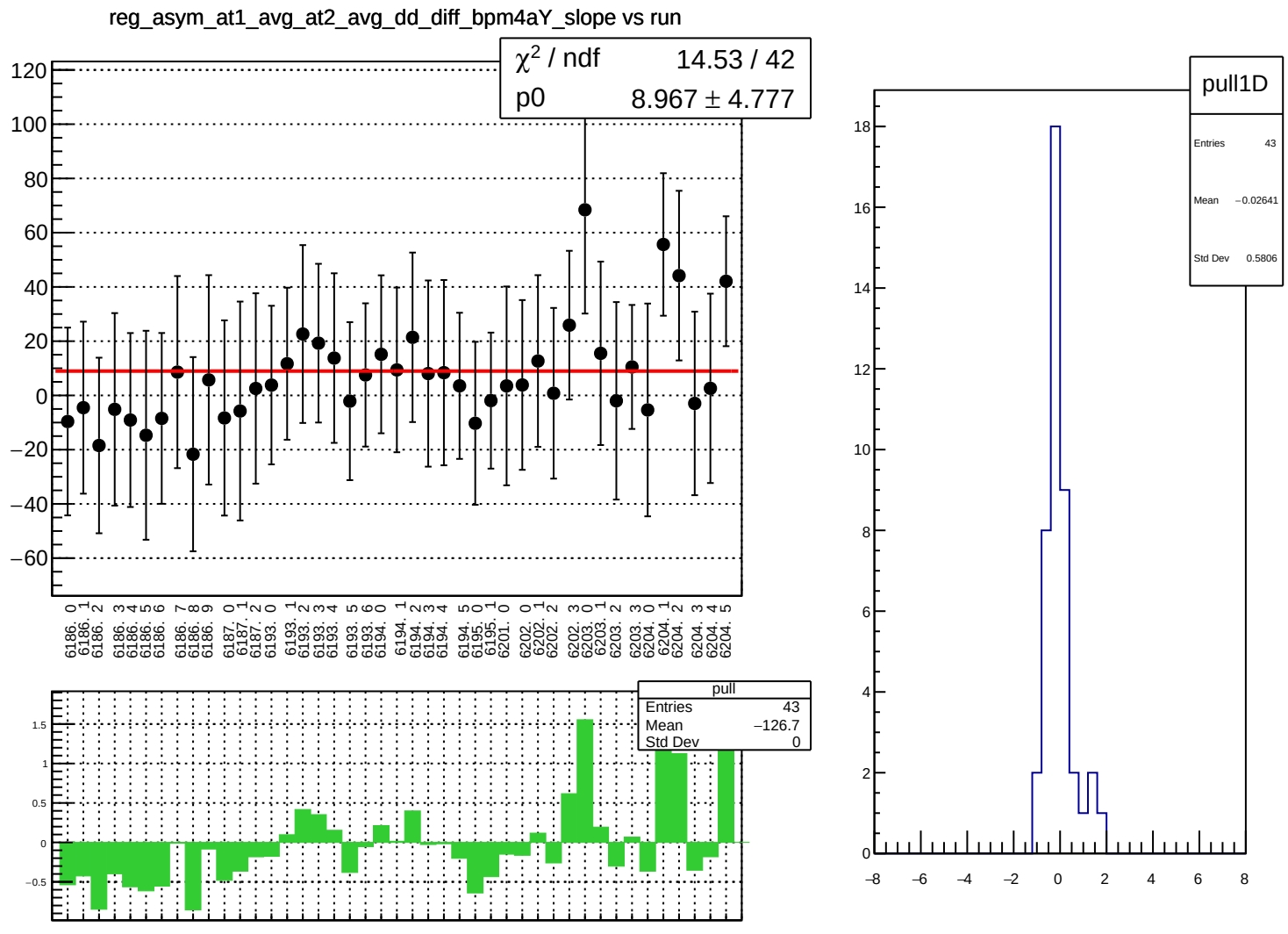

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.23 / 42
p0 −69.36 ± 2.005
−30
−40
−50
−60
−70
−80
−90
−100
−110
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −48.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02316
Std Dev 0.8788
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

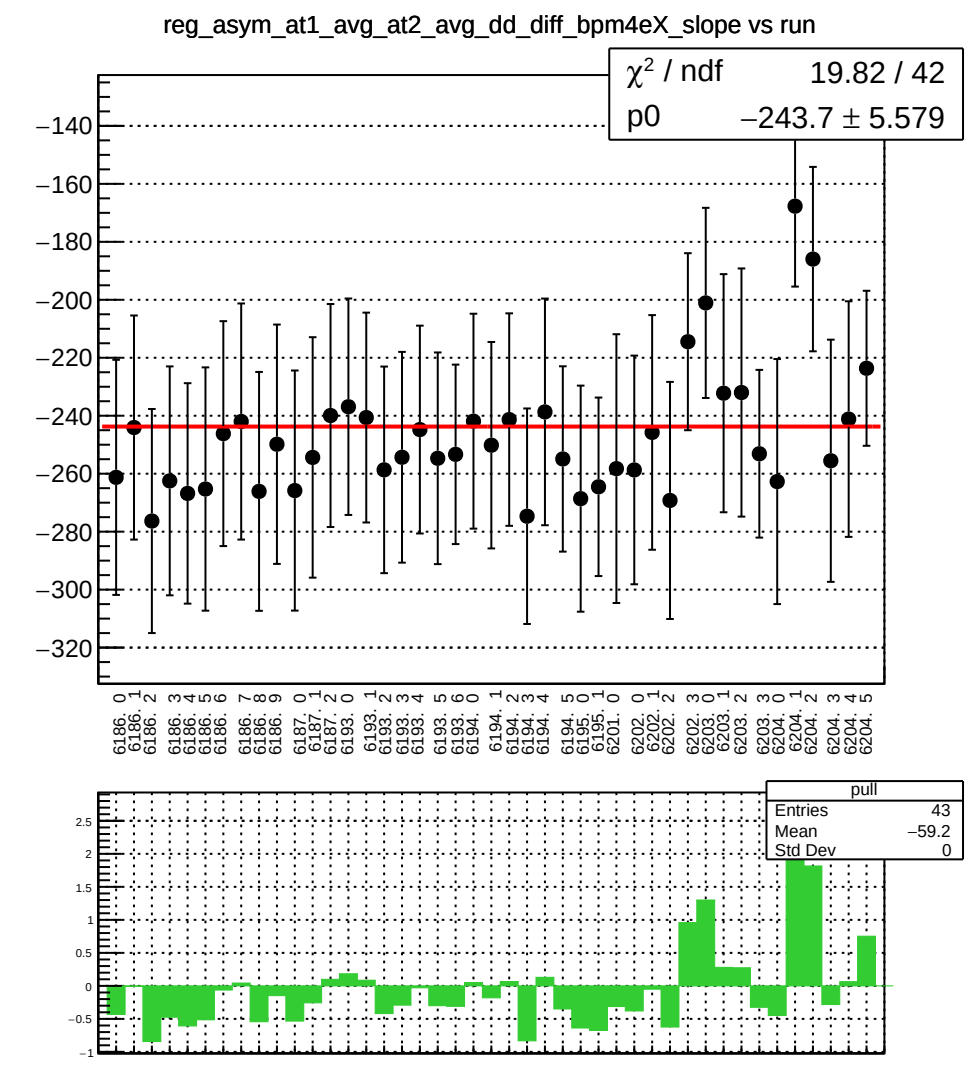

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.96 / 42
p0 −10.74 ± 1.936
pull
Entries 43
Mean −87.78
Std Dev 0
pull1D
Entries 43
Mean 0.02735
Std Dev 0.9013

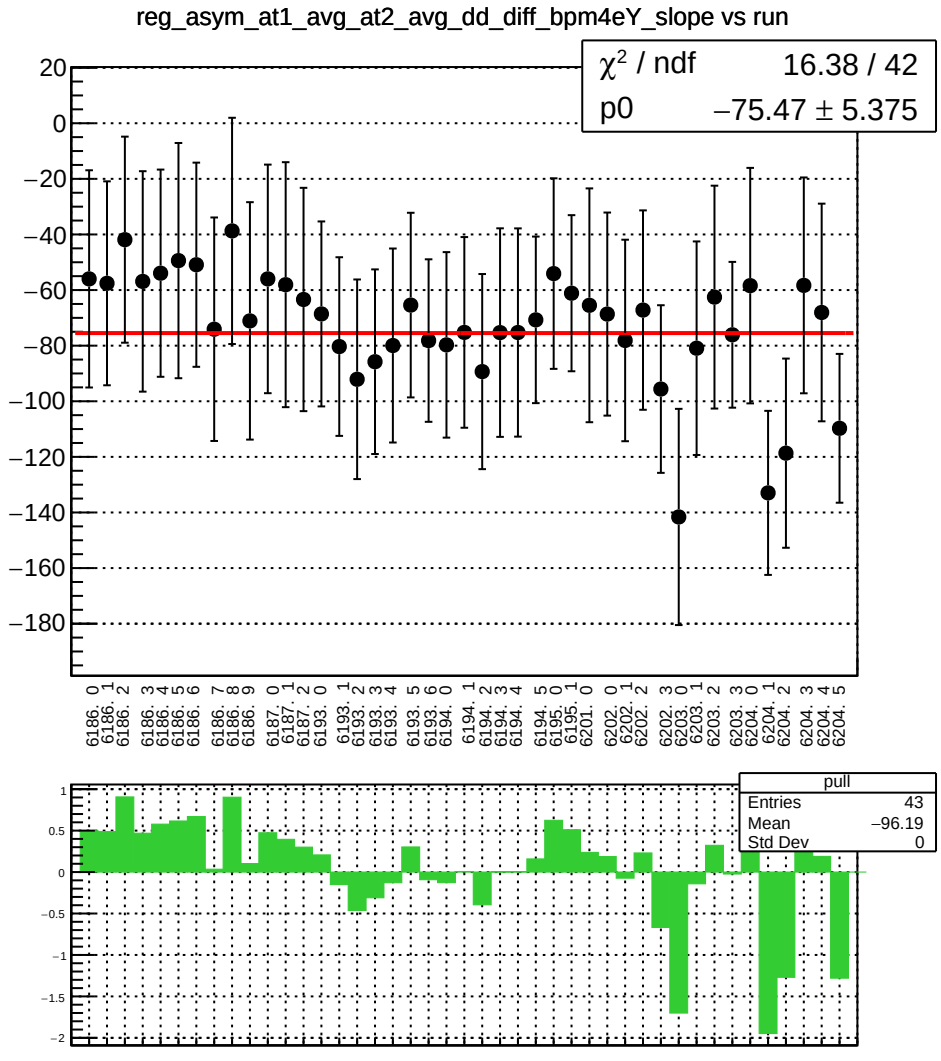

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 37.94 / 42
p0 17.81 ± 0.167
pull
Entries 43
Mean −545.7
Std Dev 0

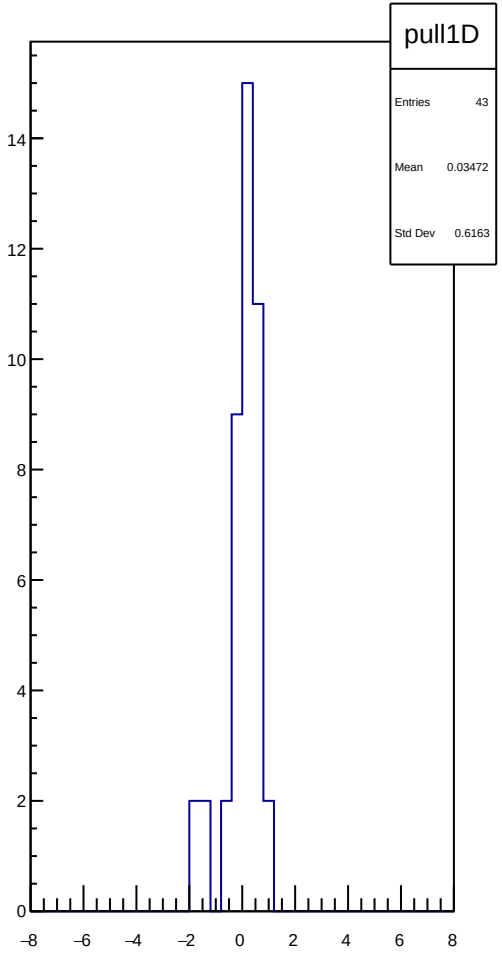

pull1D
Entries 43
Mean 0.002959
Std Dev 0.9393

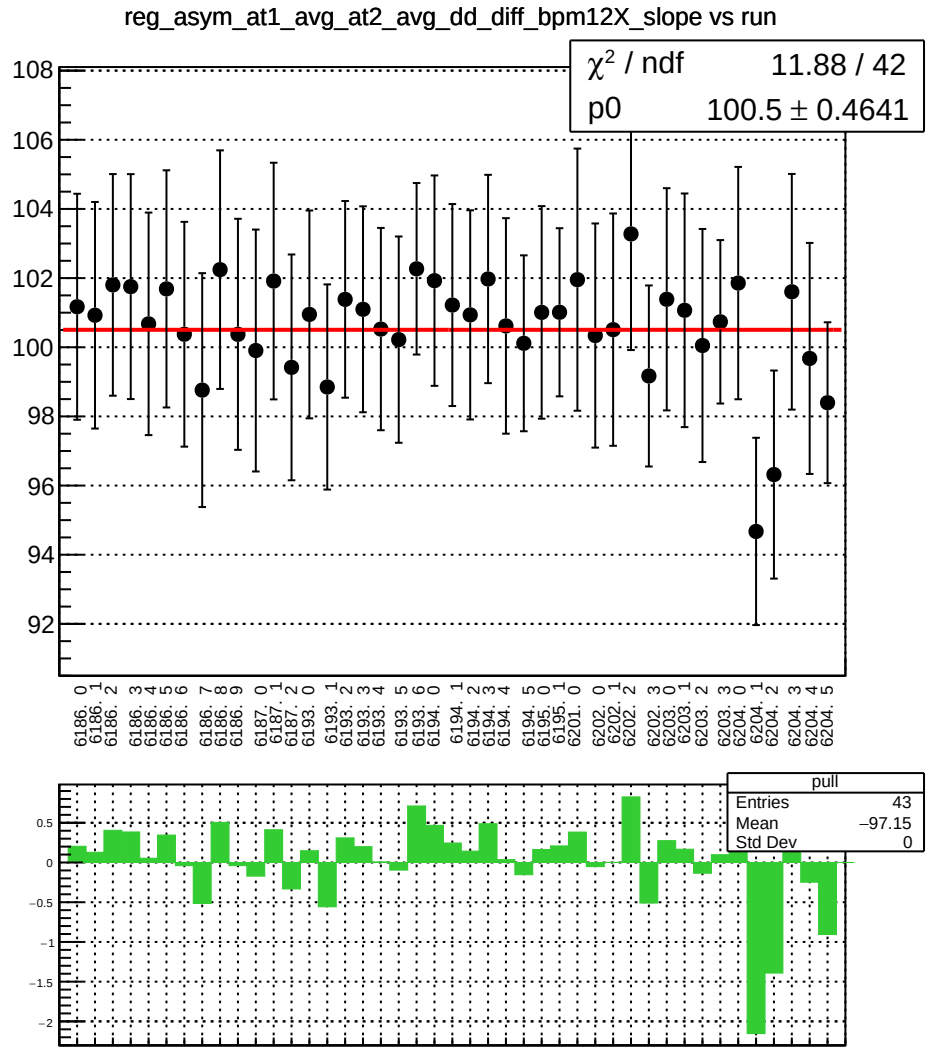

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 19.16 / 42
p0 188.5 ± 5.11
pull
Entries 43
Mean −60.45
Std Dev 0
pull1D
Entries 43
Mean 0.04451
Std Dev 0.666

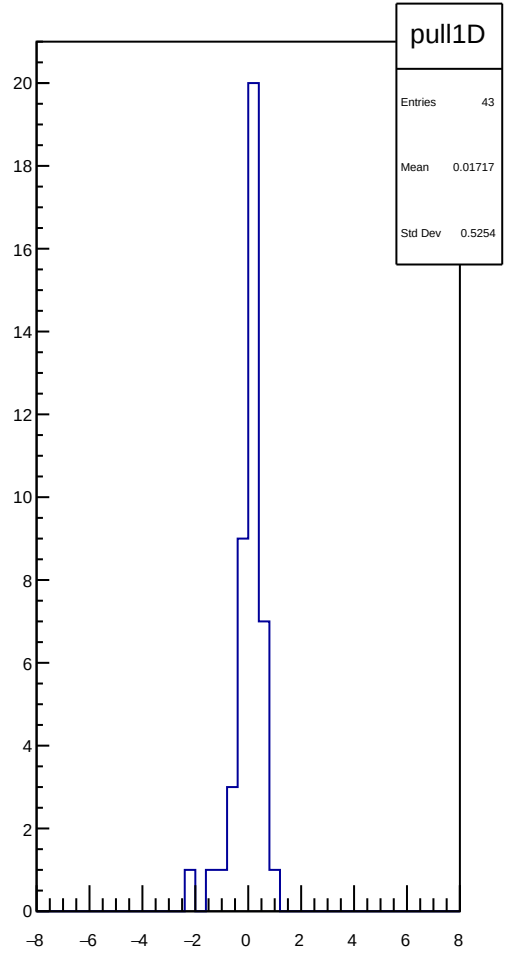

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.53 / 42
p0 8.967 ± 4.777
pull
Entries 43
Mean −126.7
Std Dev 0
pull1D
Entries 43
Mean −0.02641
Std Dev 0.5806

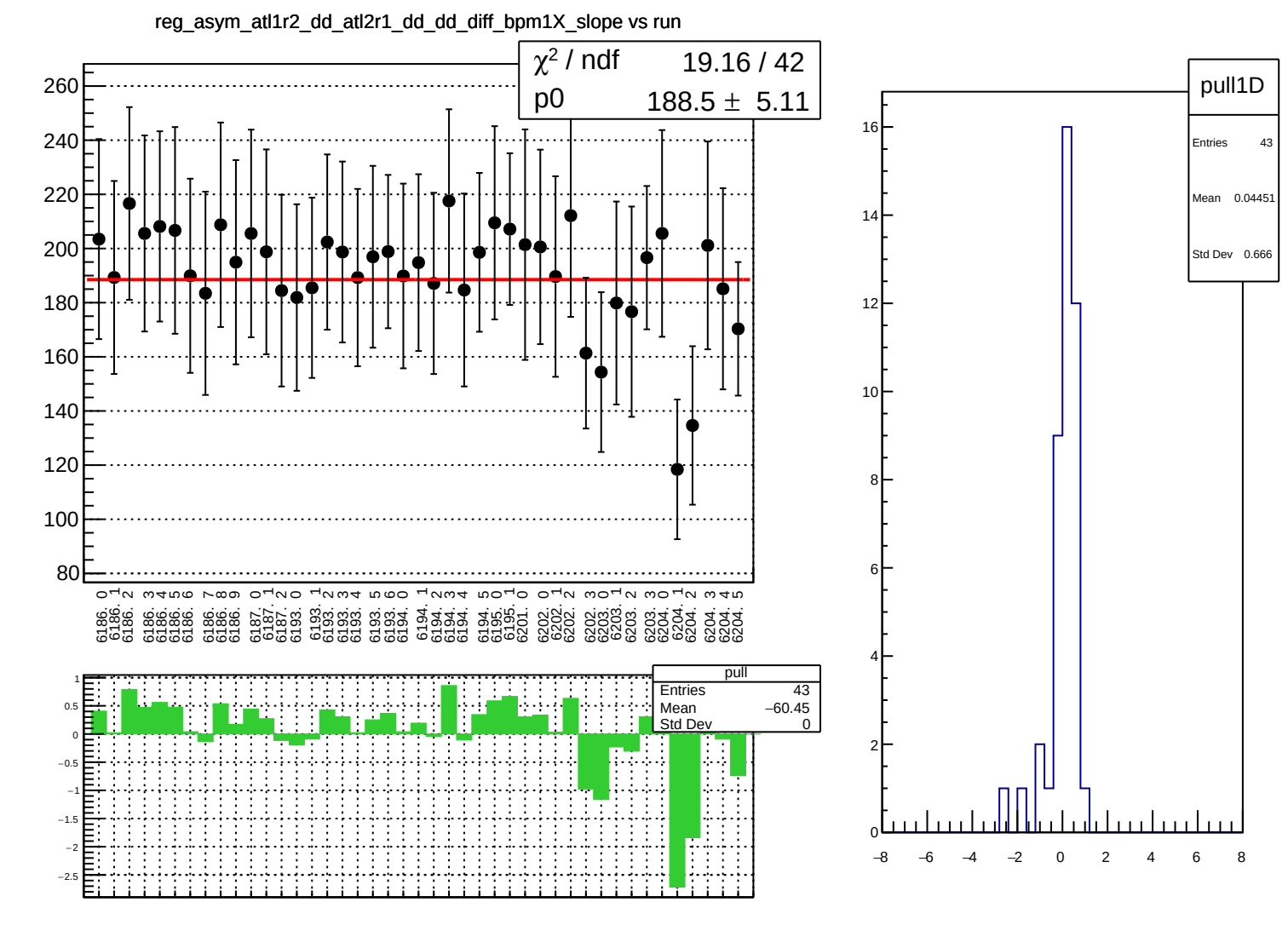

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.82 / 42
p0 −243.7 ± 5.579
pull
Entries 43
Mean −59.2
Std Dev 0
pull1D
Entries 43
Mean −0.04708
Std Dev 0.6773

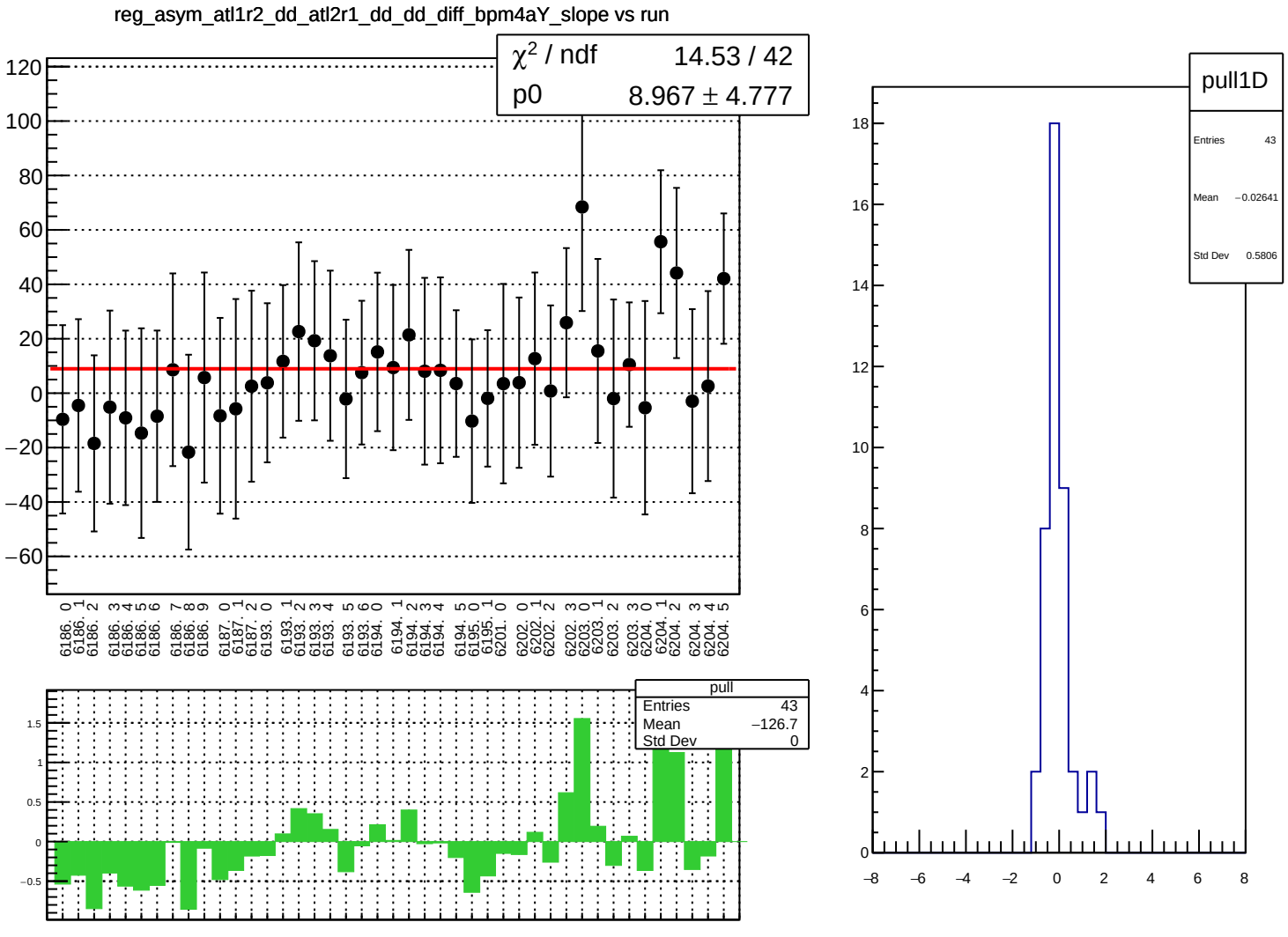

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.38 / 42
p0 −75.47 ± 5.375
pull
Entries 43
Mean −96.19
Std Dev 0

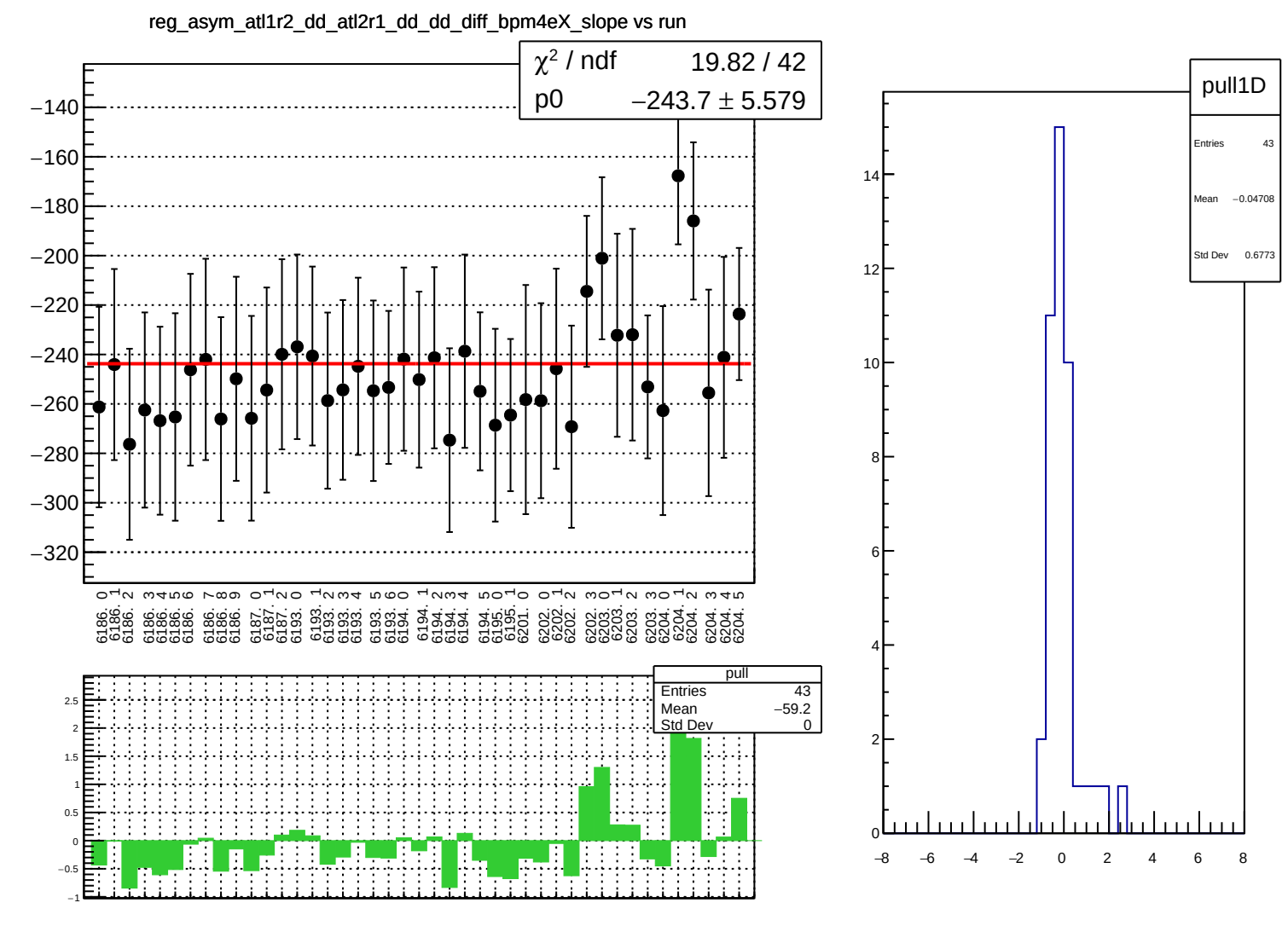

pull1D
Entries 43
Mean 0.03472
Std Dev 0.6163

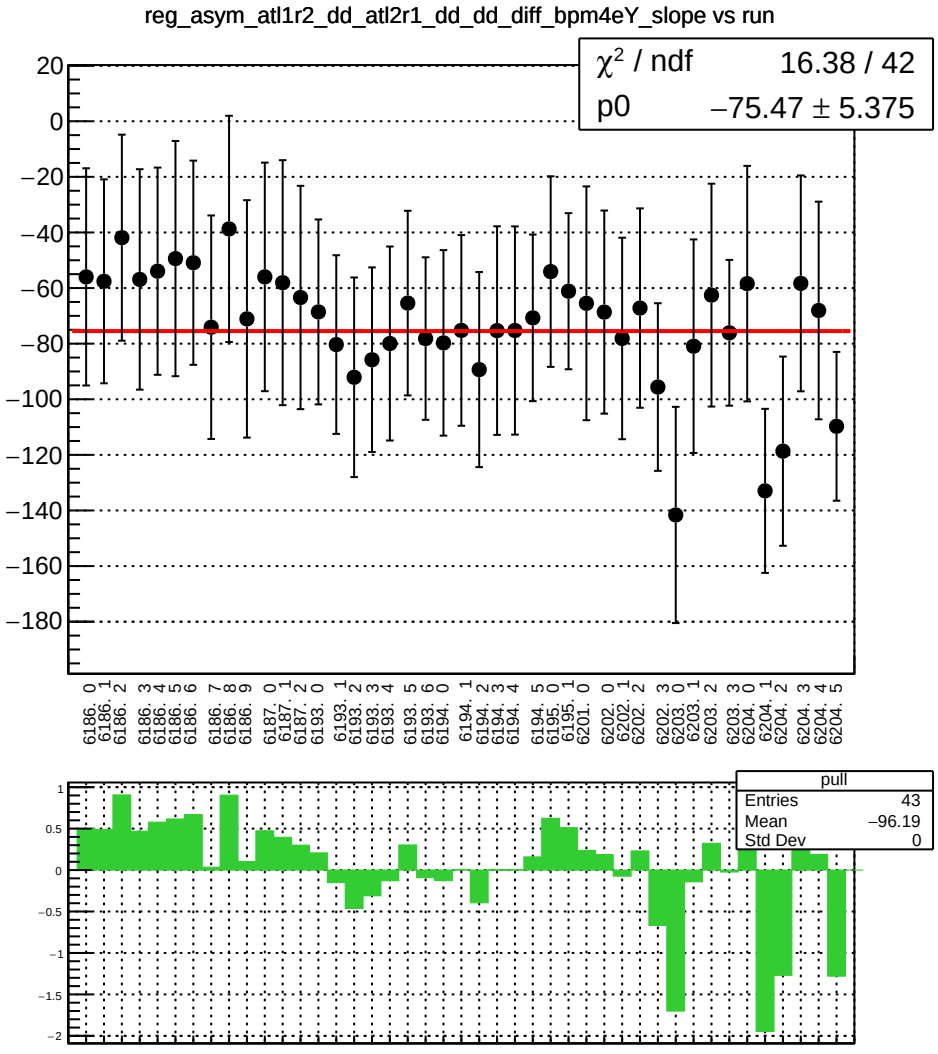

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 11.88 / 42
p0 100.5 ± 0.4641
pull
Entries 43
Mean −97.15
Std Dev 0

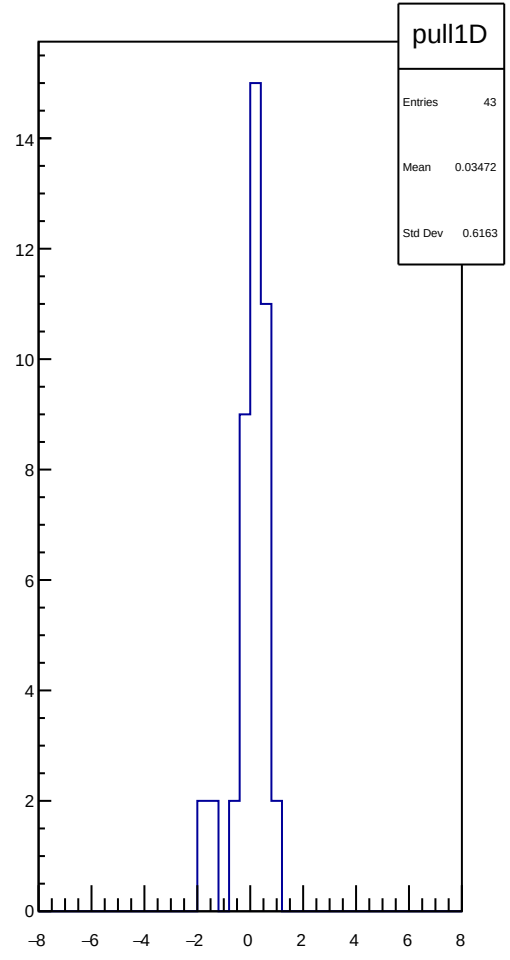

pull1D
Entries 43
Mean 0.01717
Std Dev 0.5254

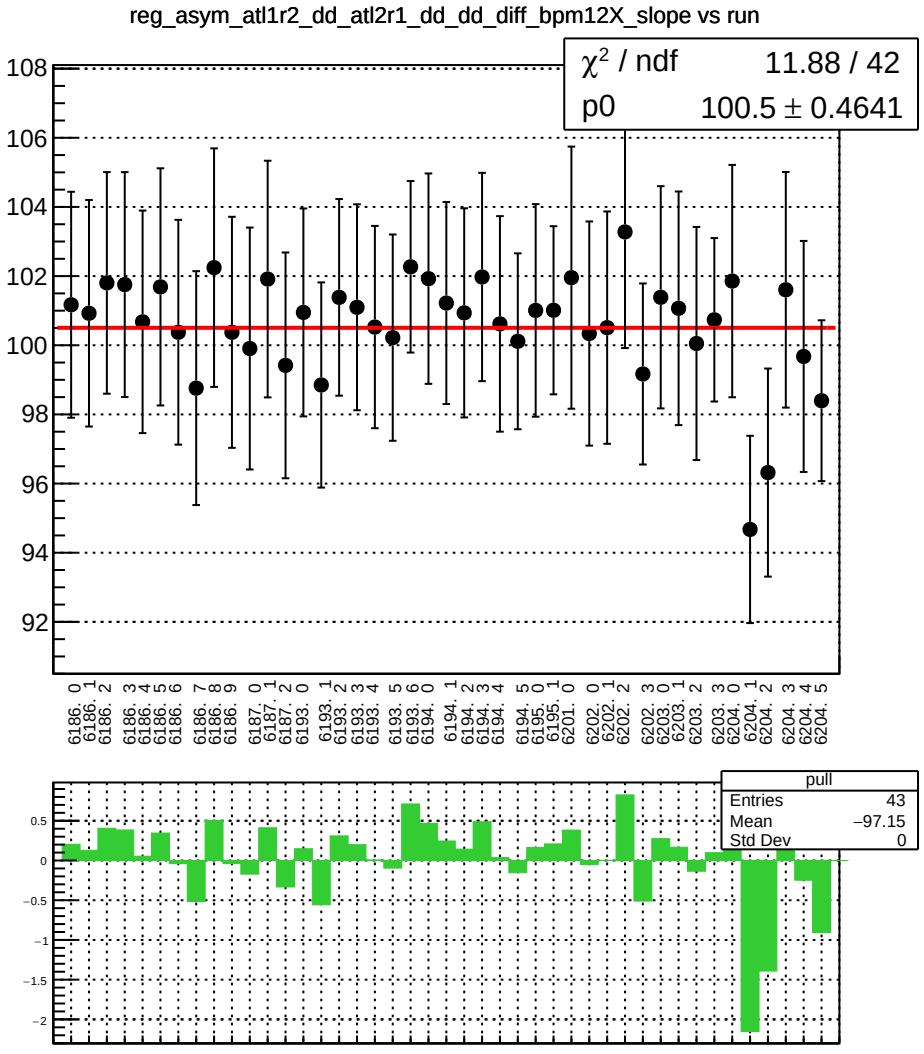

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 19.16 / 42
p0 188.5 ± 5.11
pull
Entries 43
Mean −60.45
Std Dev 0
pull1D
Entries 43
Mean 0.04451
Std Dev 0.666

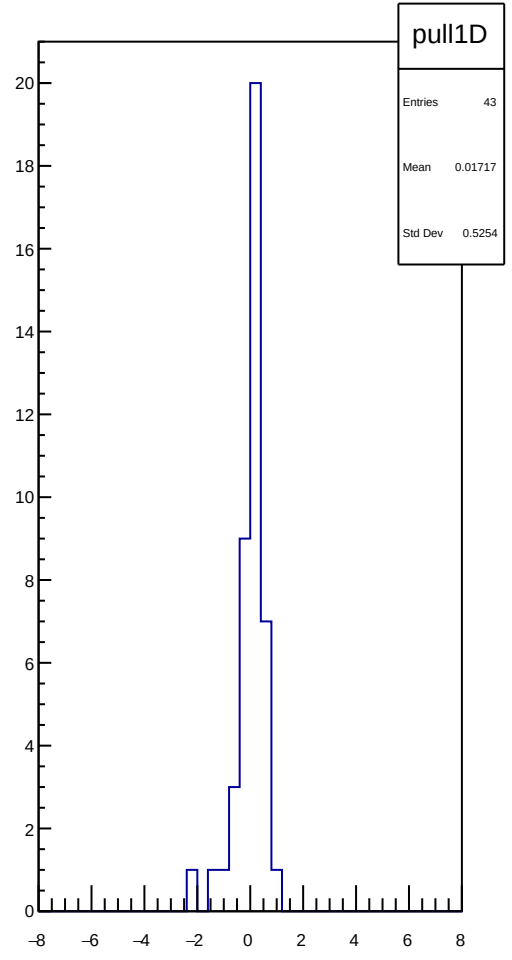

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.53 / 42
p0 8.967 ± 4.777
pull
Entries 43
Mean −126.7
Std Dev 0
pull1D
Entries 43
Mean −0.02641
Std Dev 0.5806

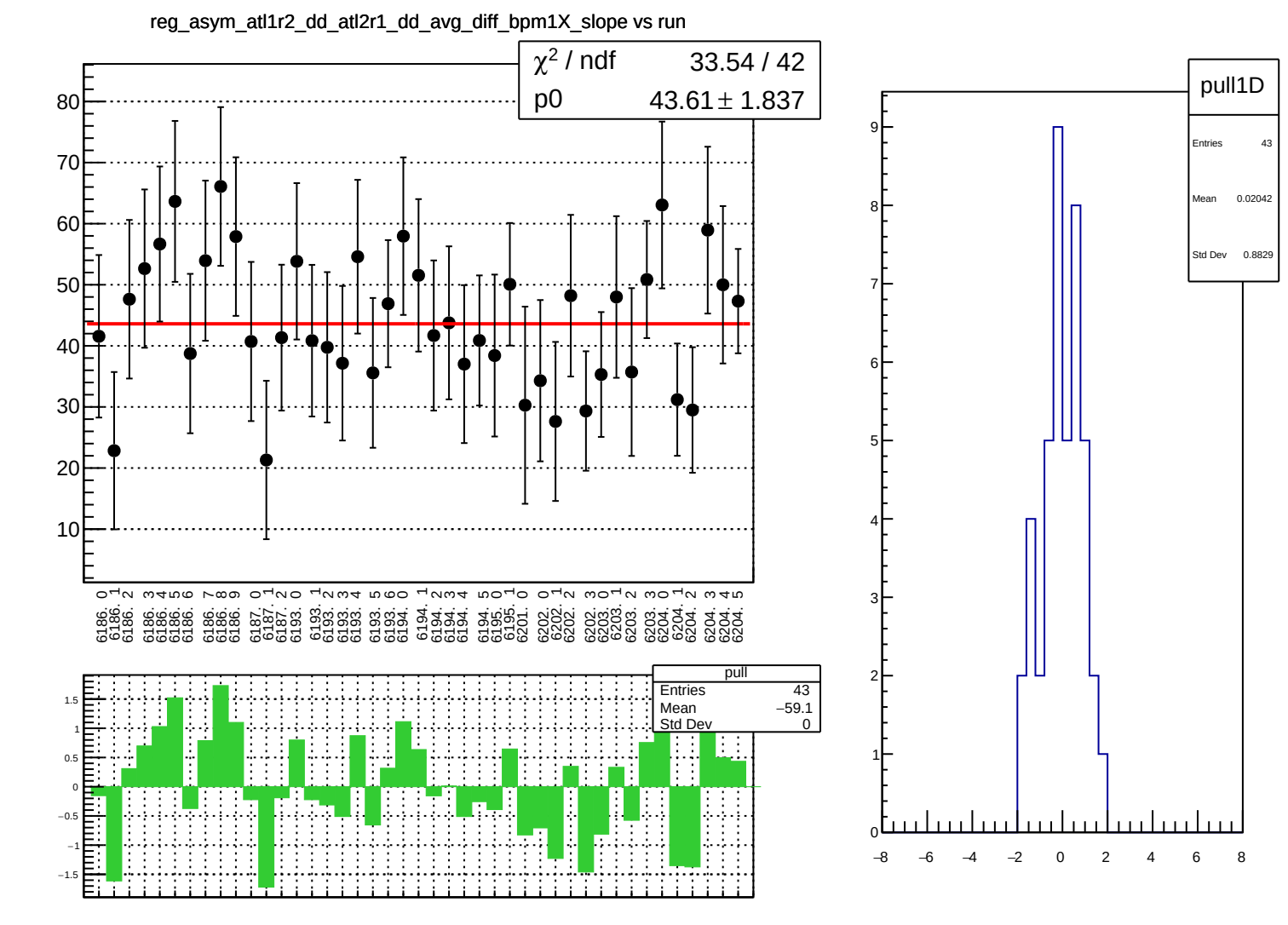

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.82 / 42
p0 −243.7 ± 5.579
pull
Entries 43
Mean −59.2
Std Dev 0
pull1D
Entries 43
Mean −0.04708
Std Dev 0.6773

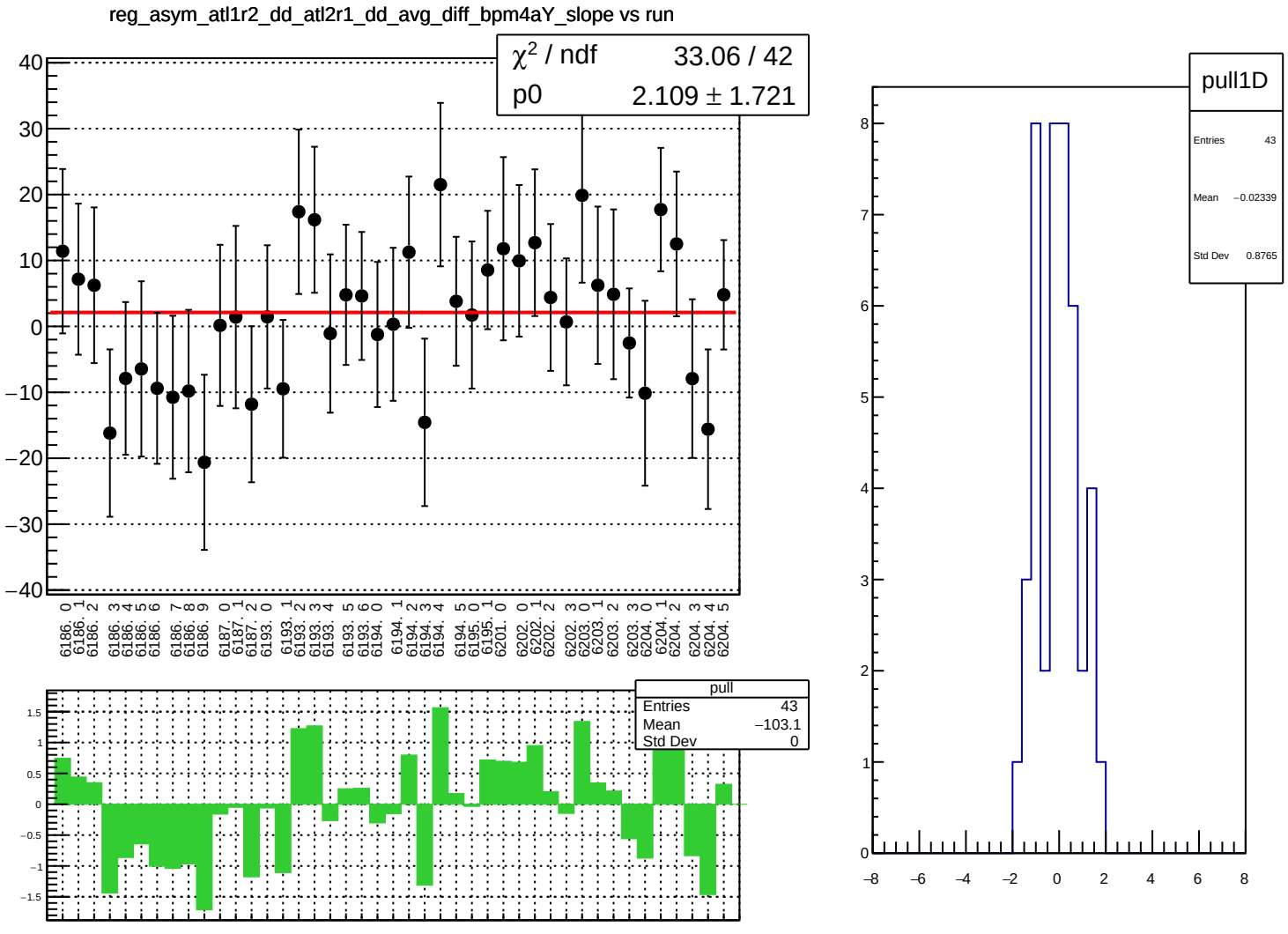

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.38 / 42
p0 −75.47 ± 5.375
pull
Entries 43
Mean −96.19
Std Dev 0

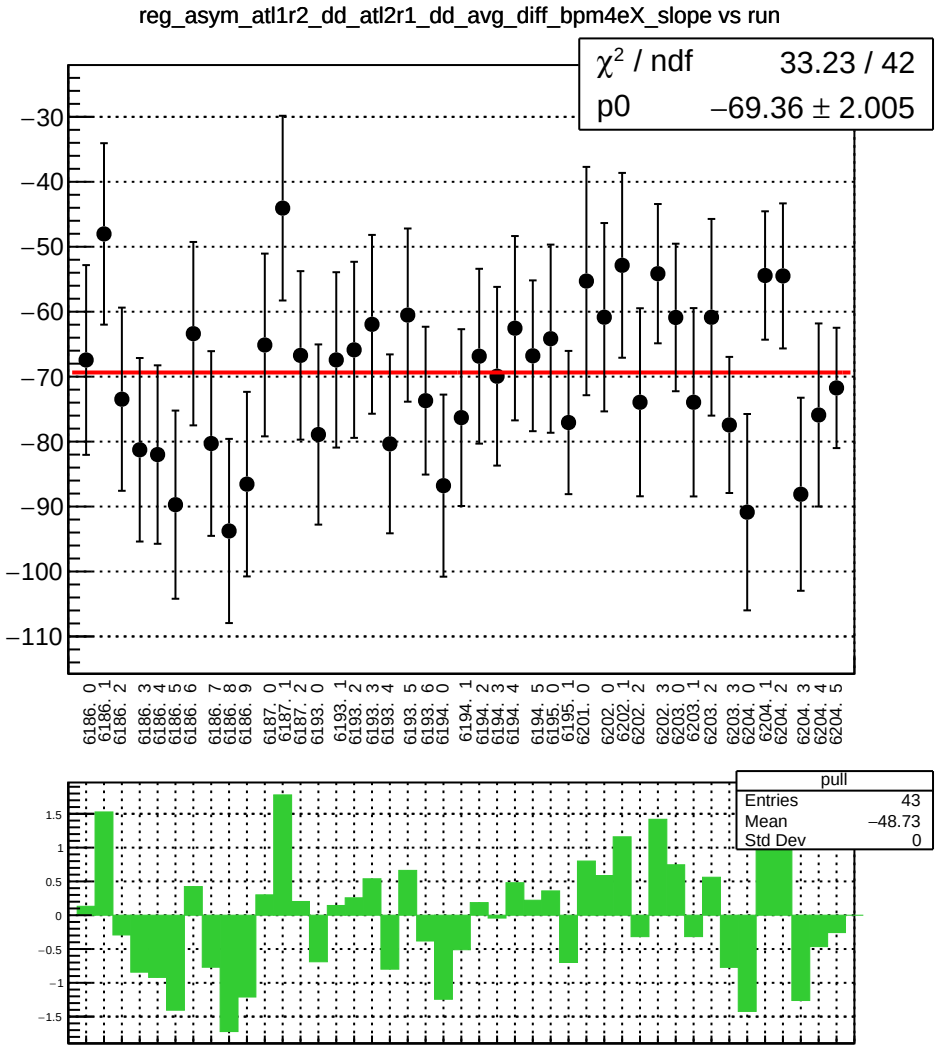

pull1D
Entries 43
Mean 0.03472
Std Dev 0.6163

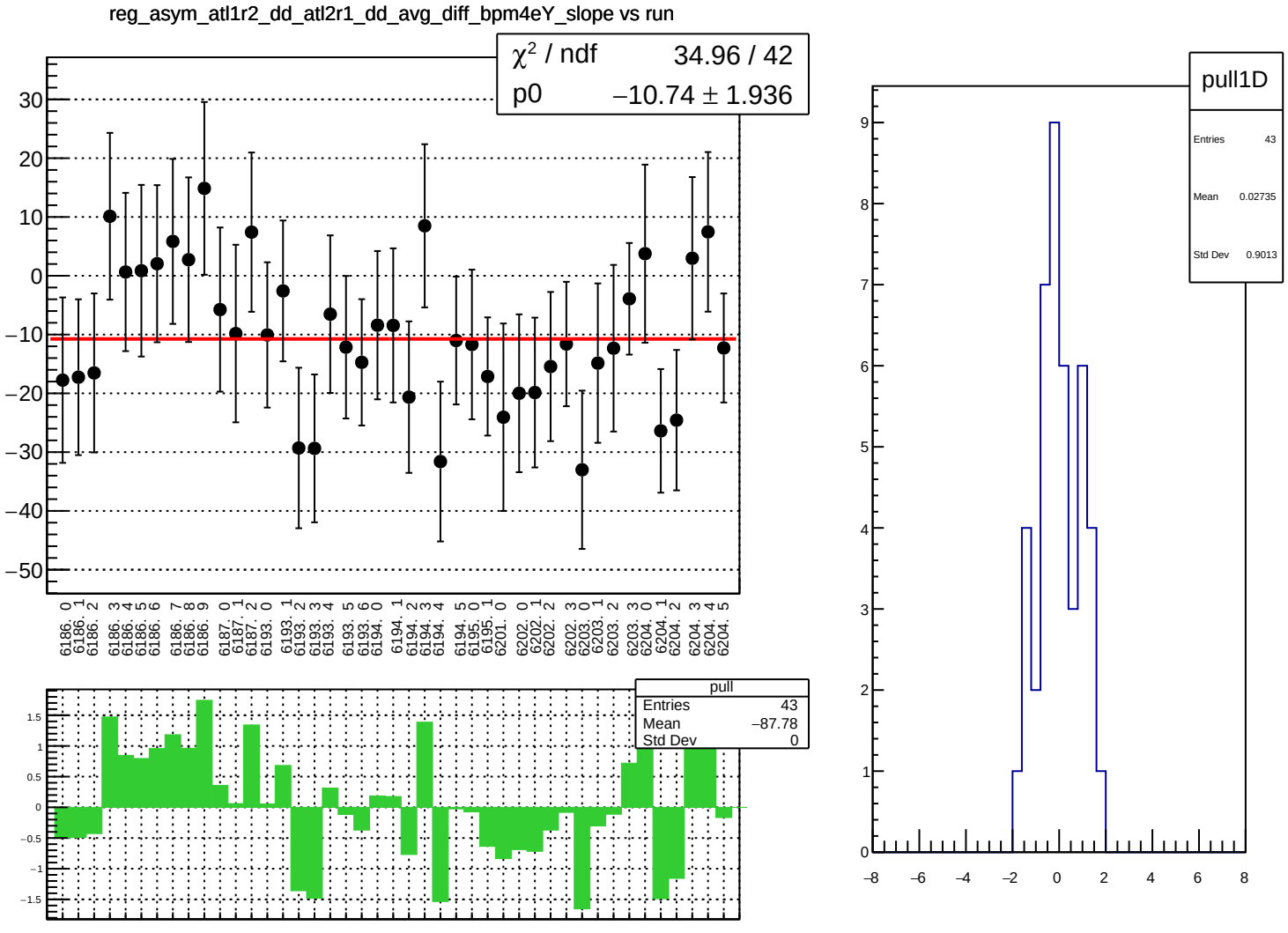

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 11.88 / 42
p0 100.5 ± 0.4641
pull
Entries 43
Mean −97.15
Std Dev 0

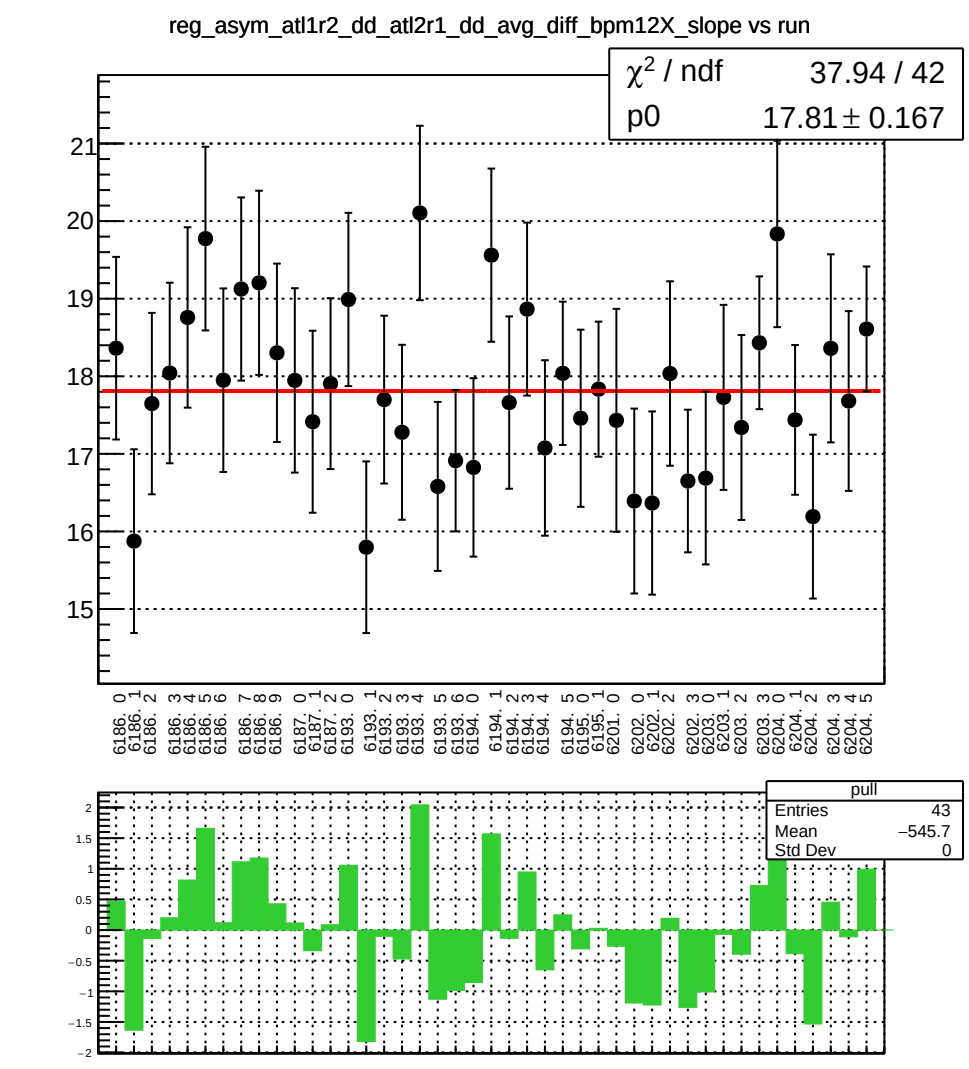

pull1D
Entries 43
Mean 0.01717
Std Dev 0.5254

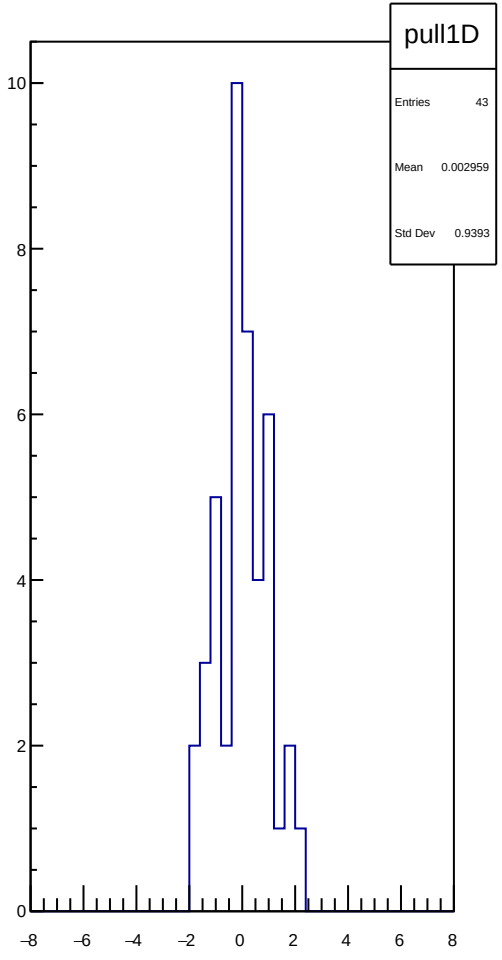

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 33.54 / 42
p0 43.61 ± 1.837
pull
Entries 43
Mean −59.1
Std Dev 0
pull1D
Entries 43
Mean 0.02042
Std Dev 0.8829

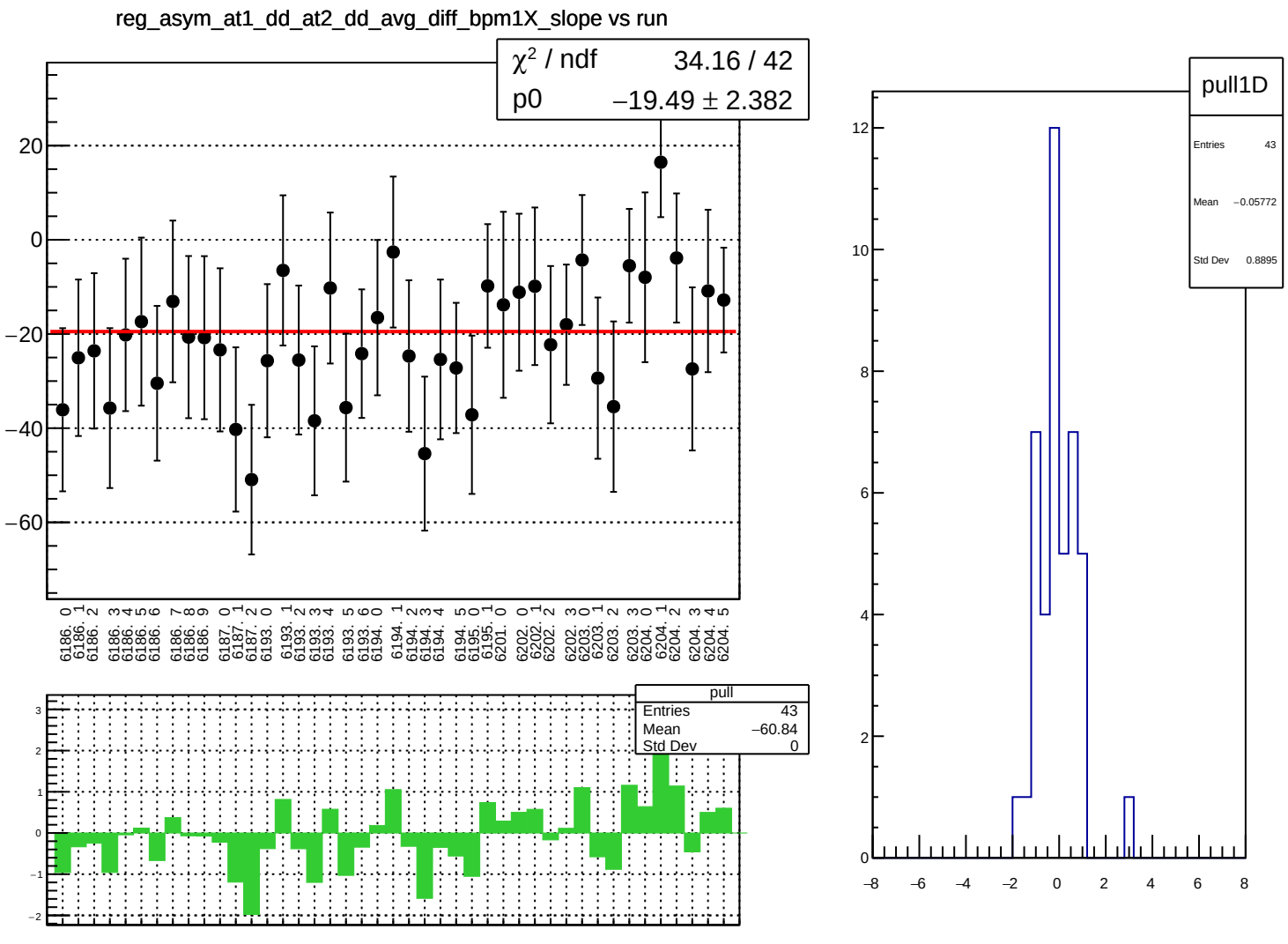

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.06 / 42
p0 2.109 ± 1.721
pull
Entries 43
Mean −103.1
Std Dev 0
pull1D
Entries 43
Mean −0.02339
Std Dev 0.8765

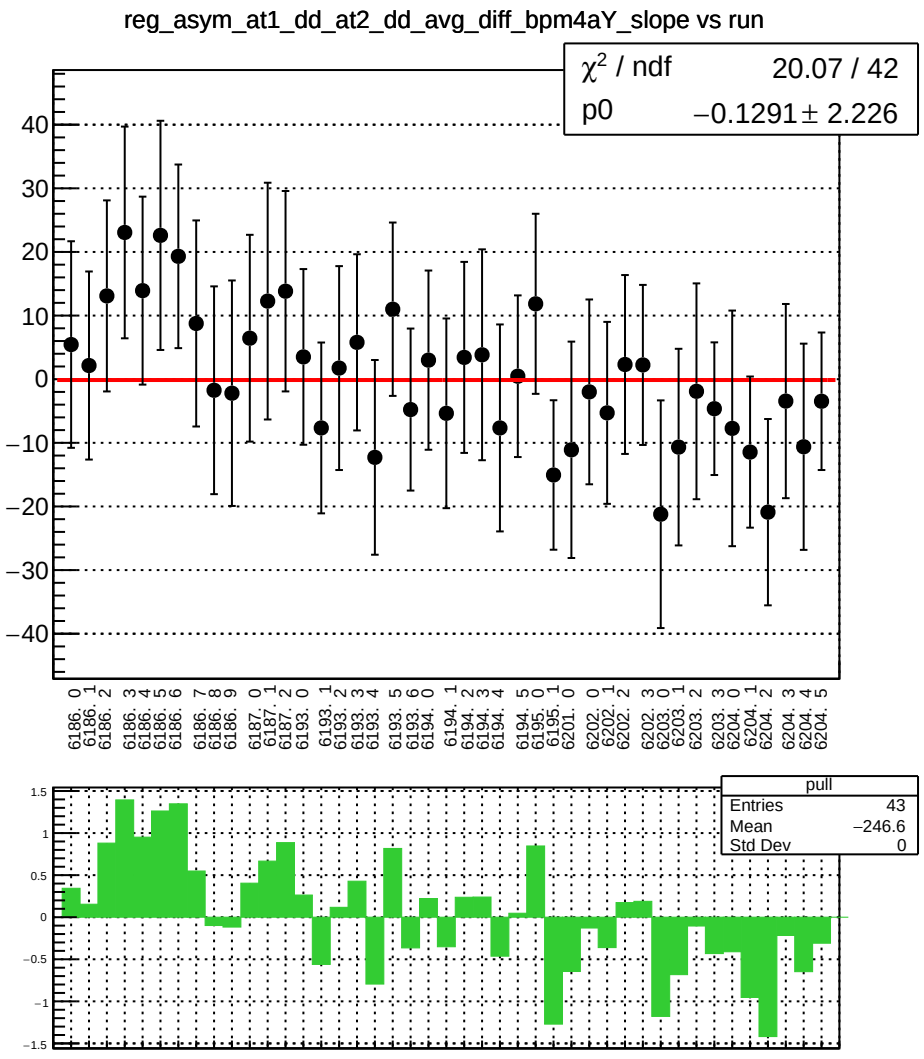

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.23 / 42
p0 −69.36 ± 2.005
−30
−40
−50
−60
−70
−80
−90
−100
−110
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −48.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.02316
Std Dev 0.8788
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

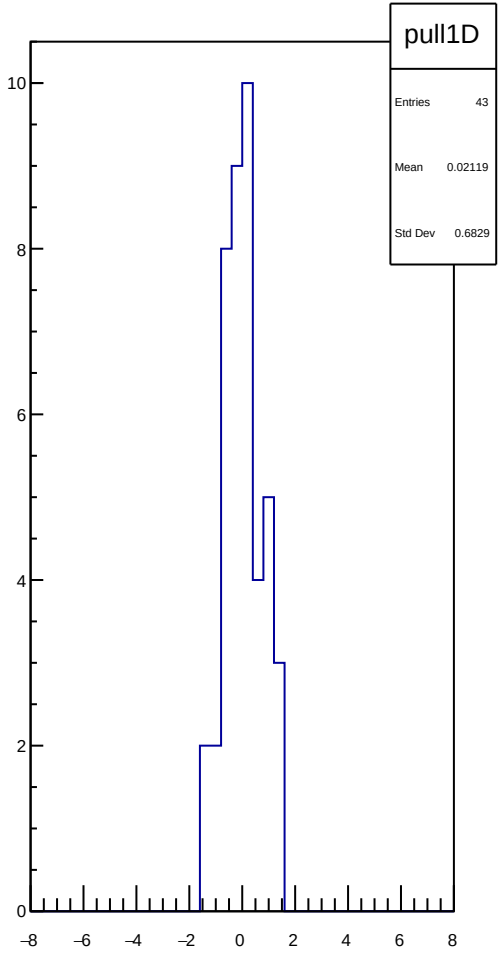

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.96 / 42
p0 −10.74 ± 1.936
pull
Entries 43
Mean −87.78
Std Dev 0
pull1D
Entries 43
Mean 0.02735
Std Dev 0.9013

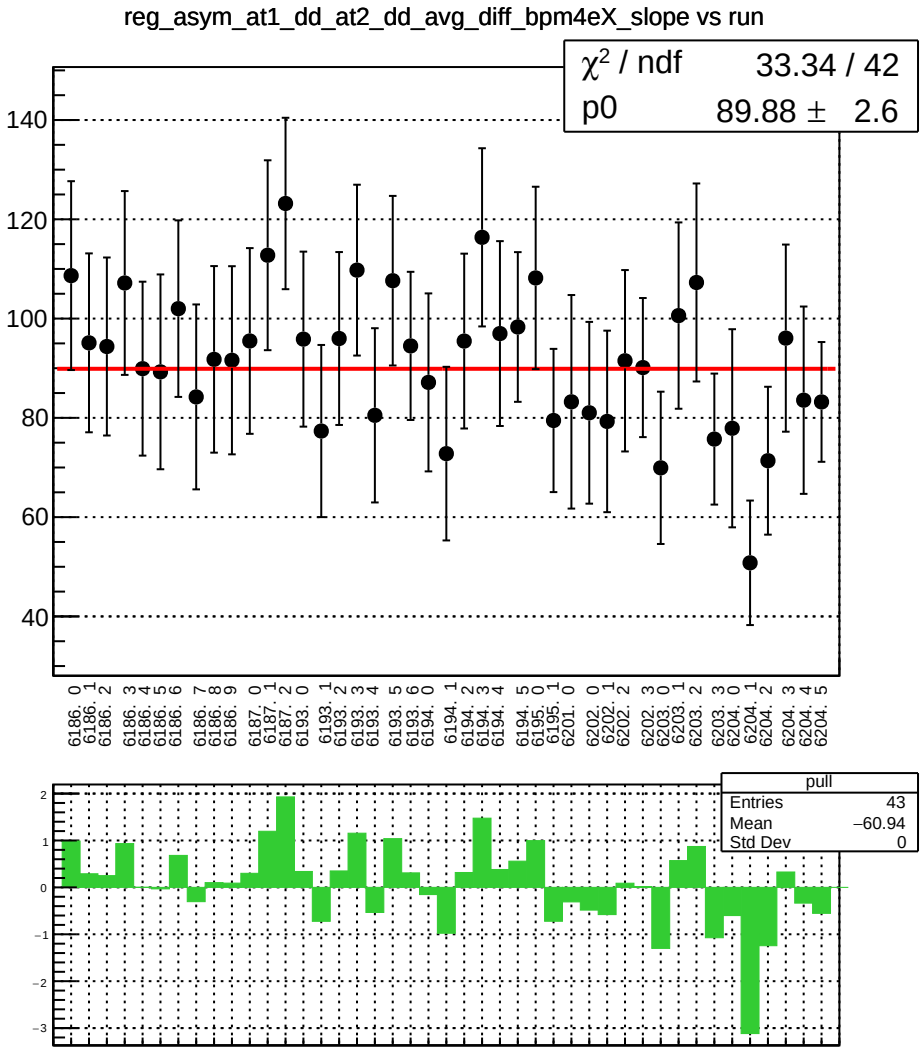

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 37.94 / 42
p0 17.81 ± 0.167
pull
Entries 43
Mean −545.7
Std Dev 0

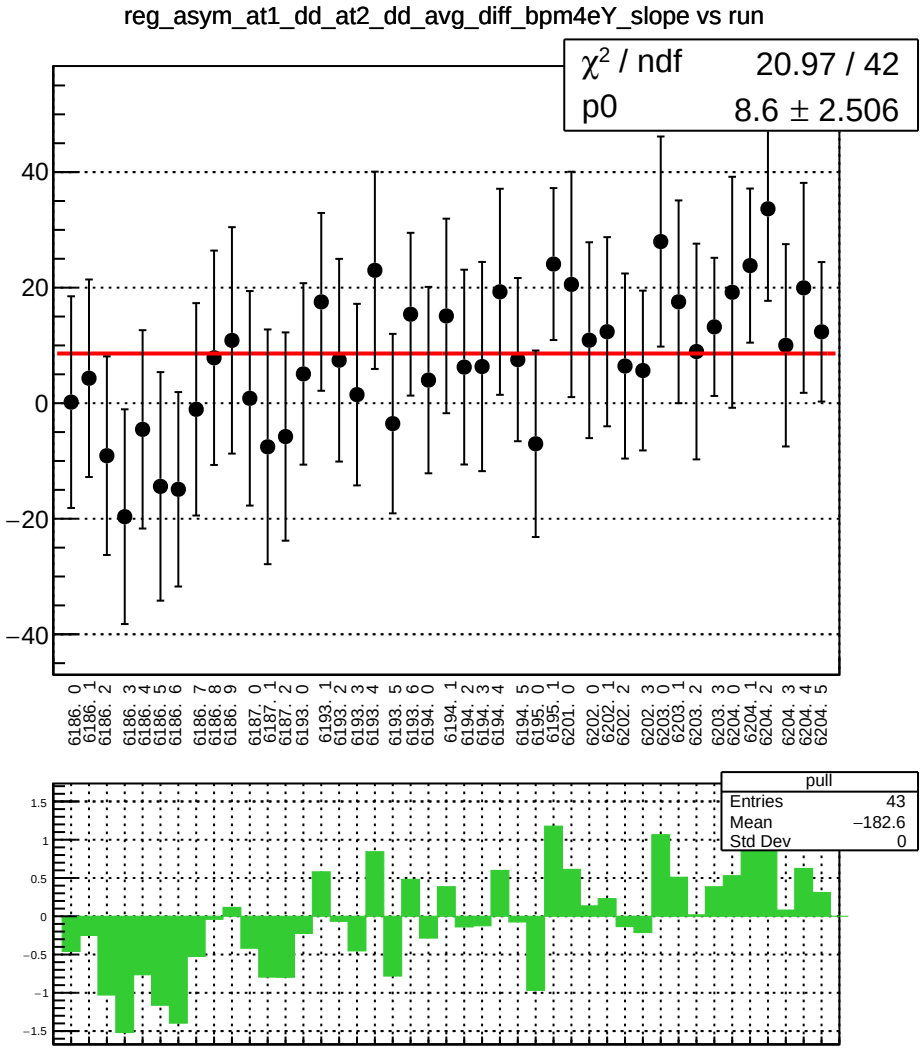

pull1D
Entries 43
Mean 0.002959
Std Dev 0.9393

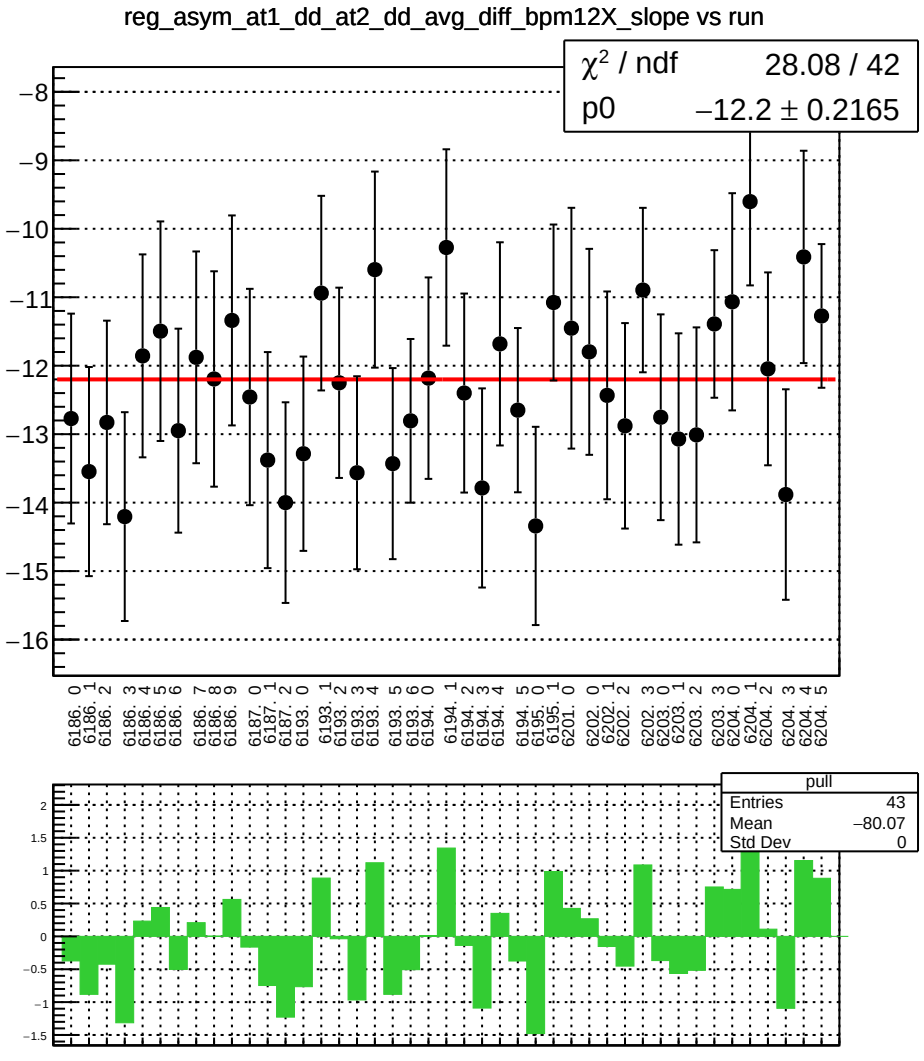

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 34.16 / 42
p0 −19.49 ± 2.382
20
0
−20
−40
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −60.84
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.05772
Std Dev 0.8895
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

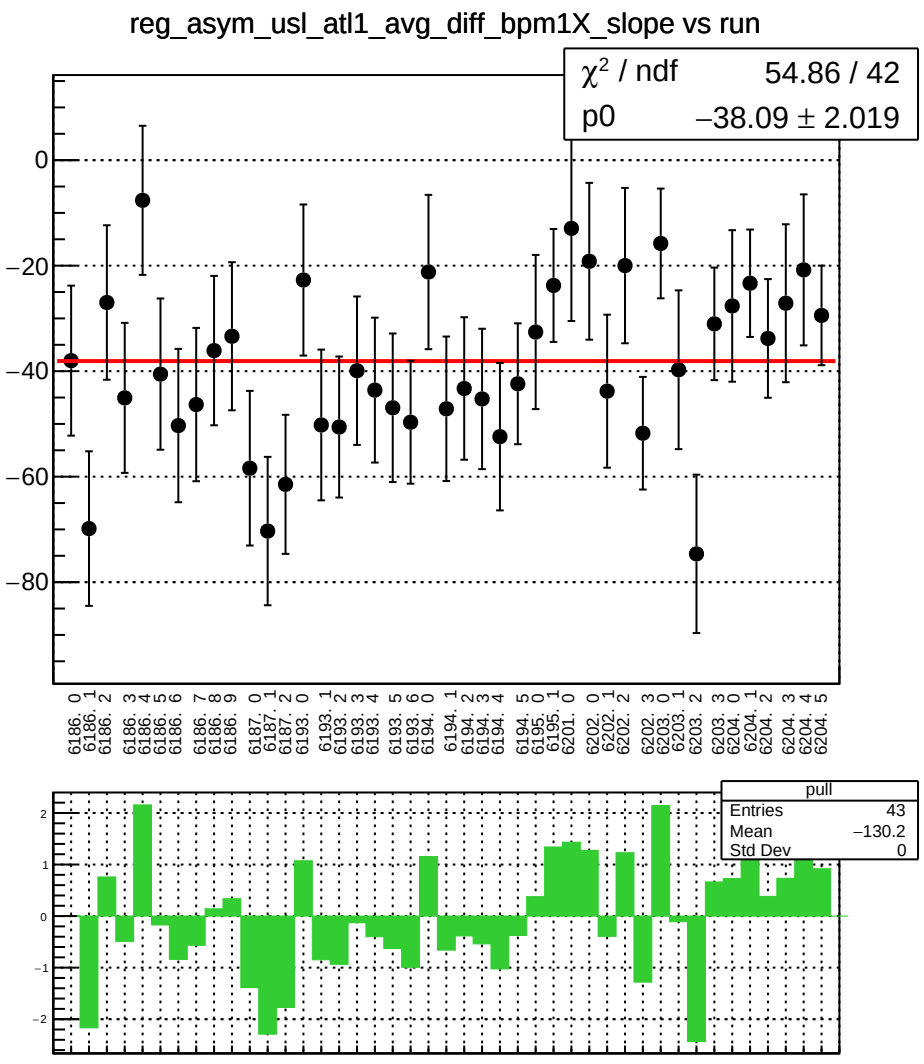

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.07 / 42
p0 −0.1291 ± 2.226
pull
Entries 43
Mean −246.6
Std Dev 0

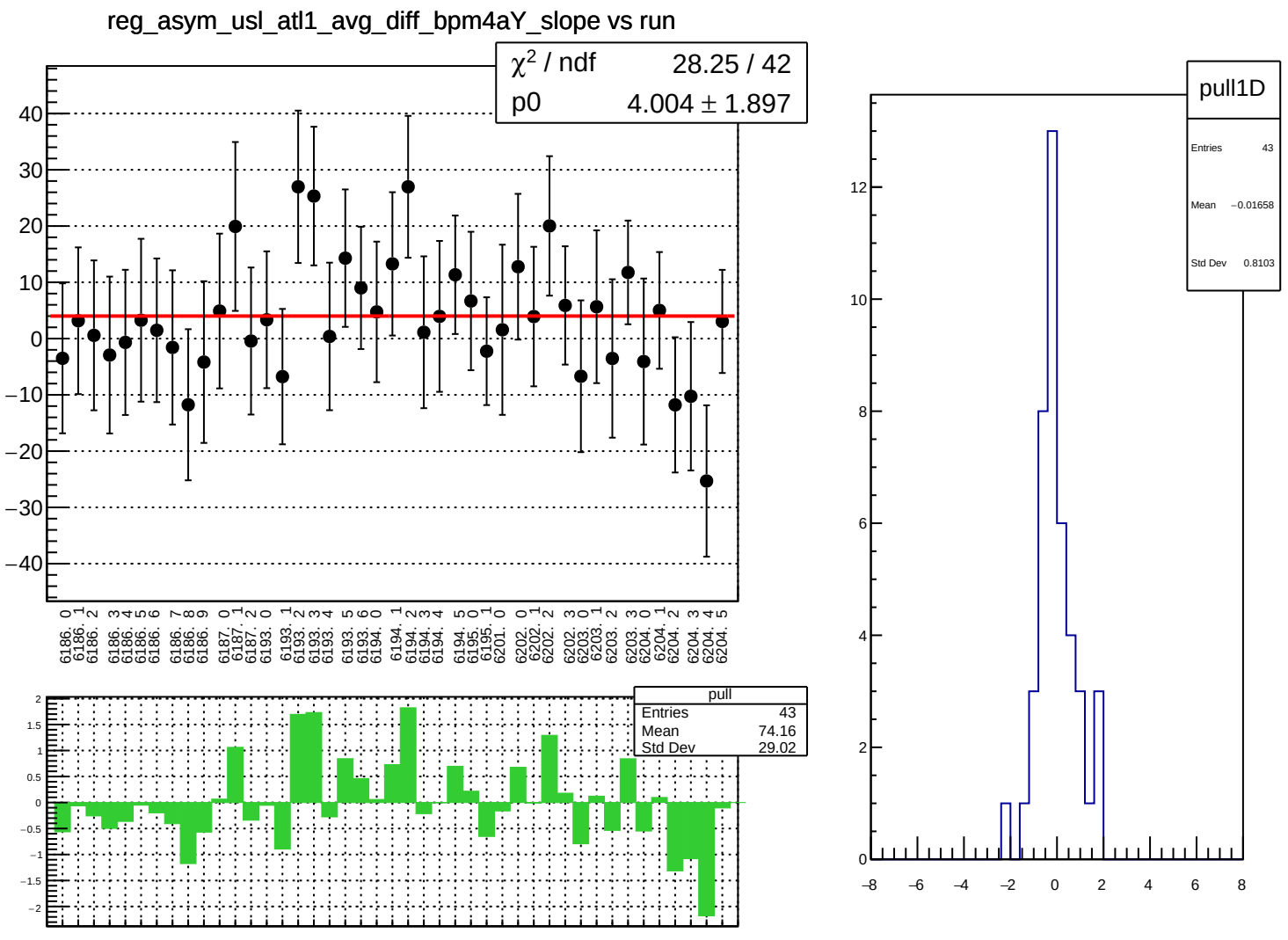

pull1D
Entries 43
Mean 0.02119
Std Dev 0.6829

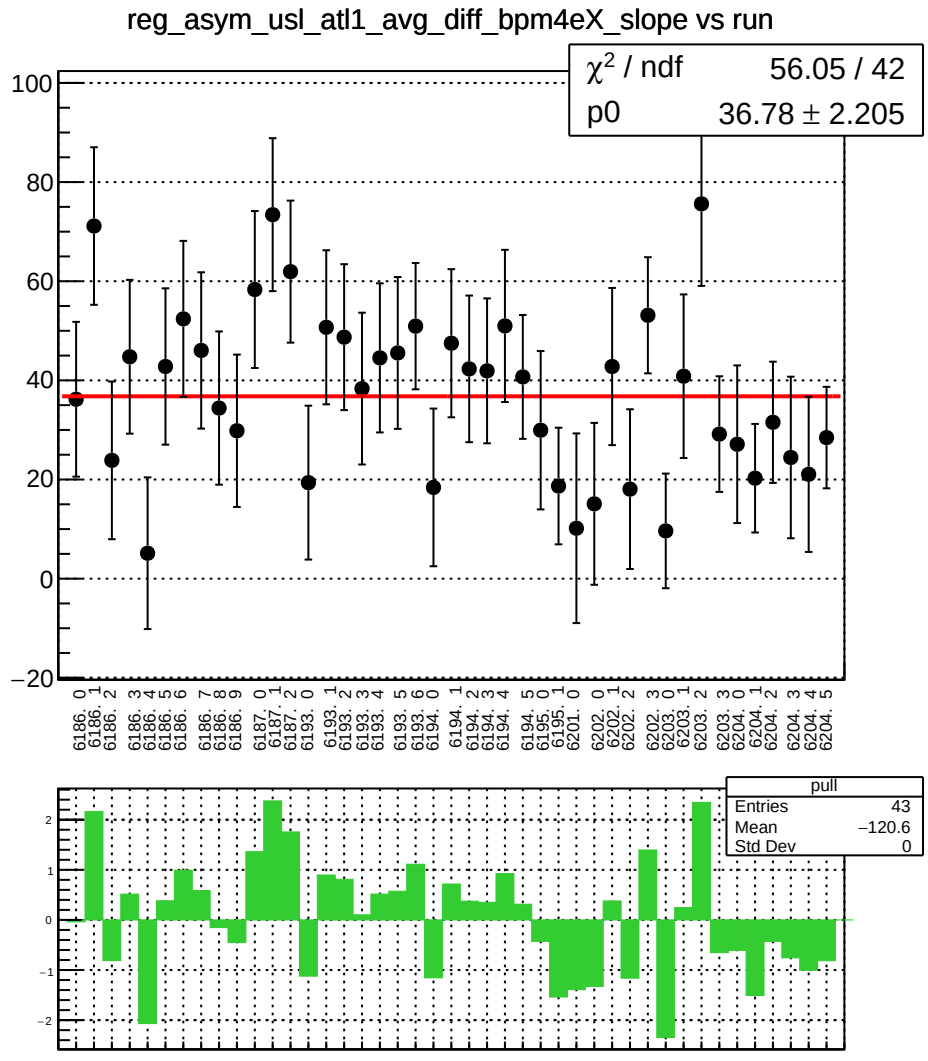

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.34 / 42
p0 89.88 ± 2.6
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −60.94
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.05856
Std Dev 0.8786
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

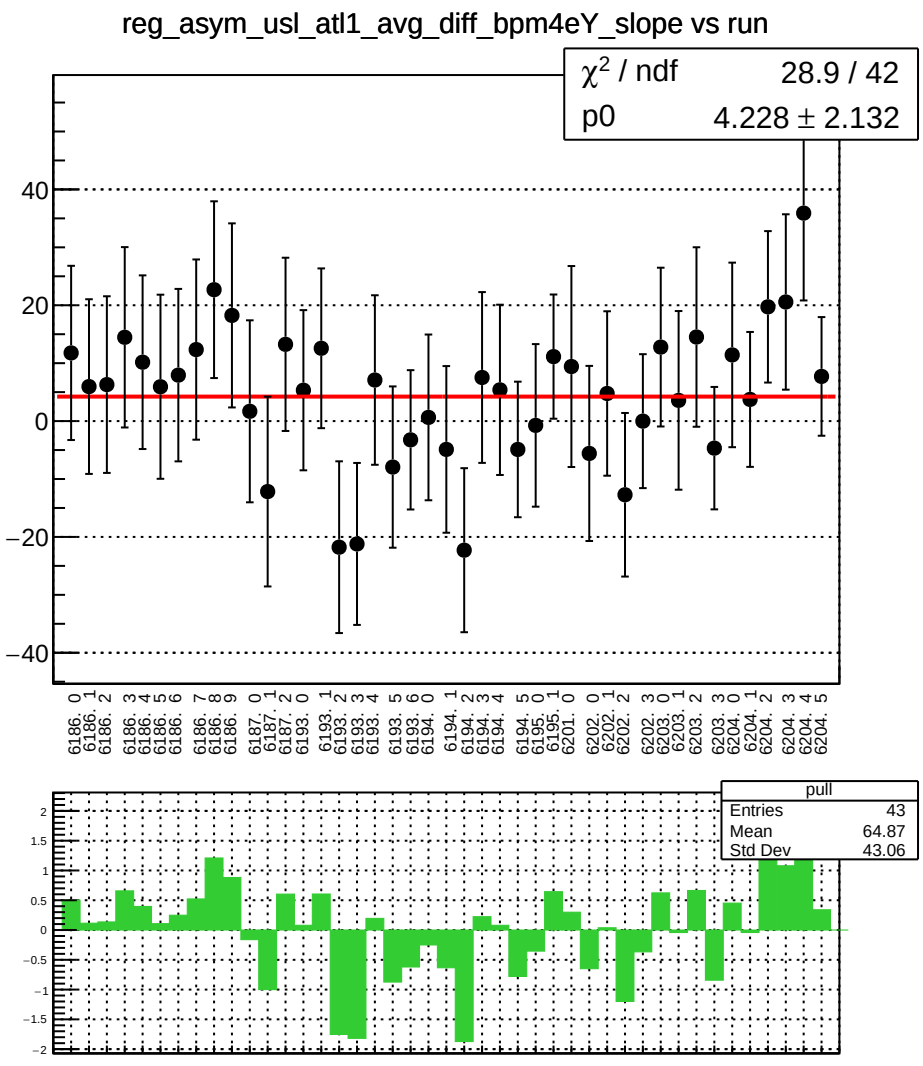

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.97 / 42
p0 8.6 ± 2.506
pull
Entries 43
Mean −182.6
Std Dev 0
pull1D
Entries 43
Mean −0.02829
Std Dev 0.6978

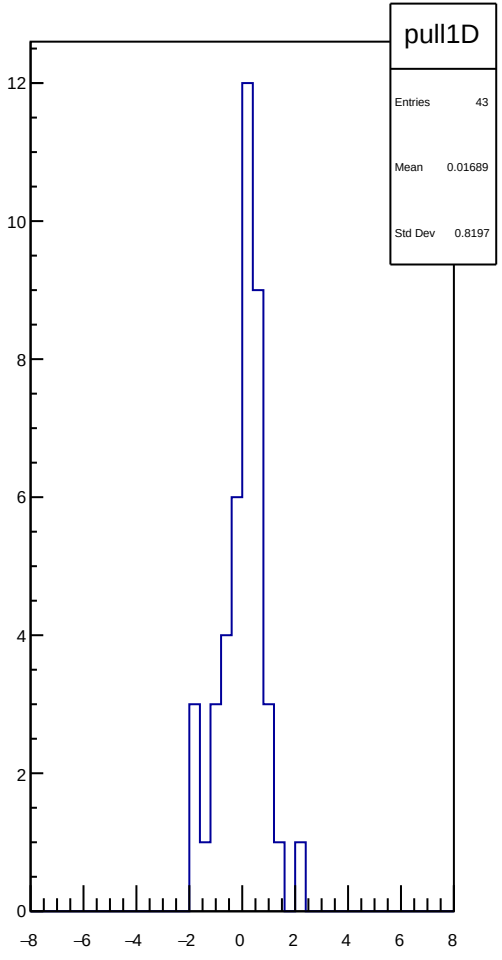

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 28.08 / 42
p0 −12.2 ± 0.2165
pull
Entries 43
Mean −80.07
Std Dev 0
pull1D
Entries 43
Mean −0.0316
Std Dev 0.8075

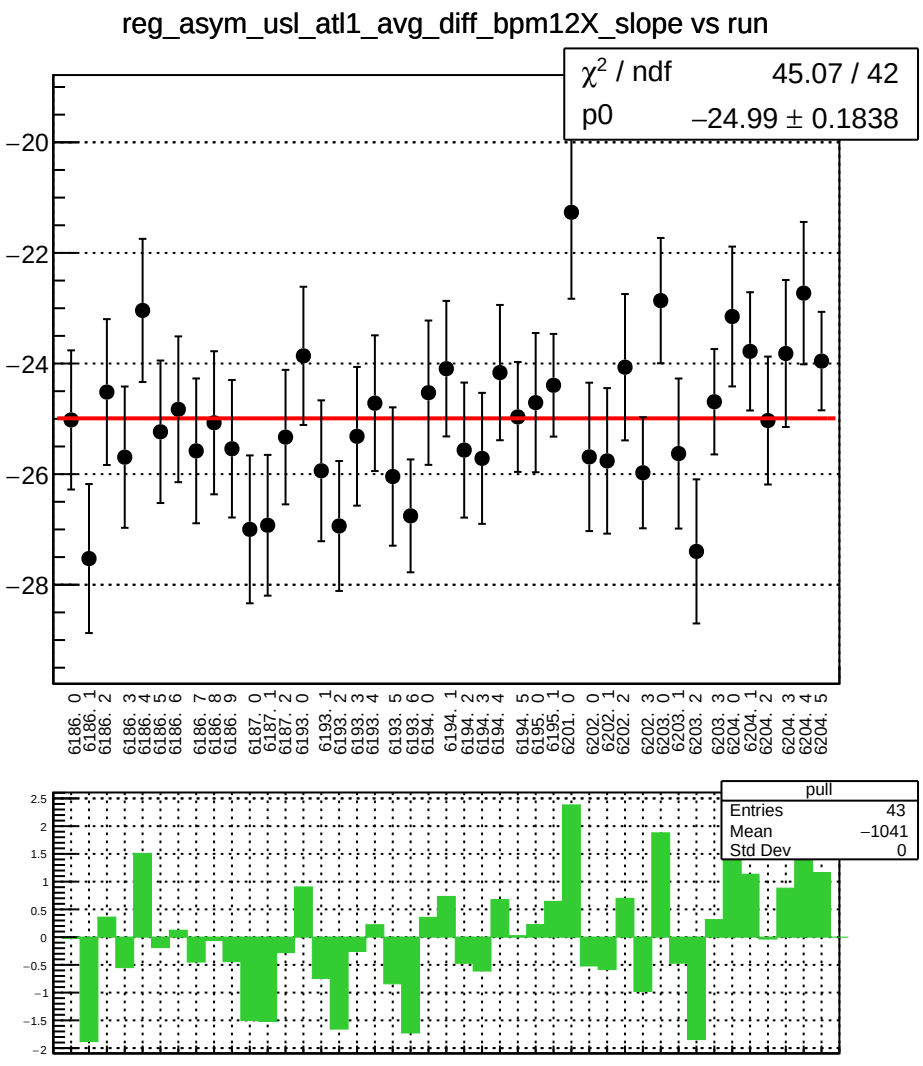

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 54.86 / 42
p0 −38.09 ± 2.019
0
−20
−40
−60
−80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −130.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 43
Mean −0.03063
Std Dev 1.129
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

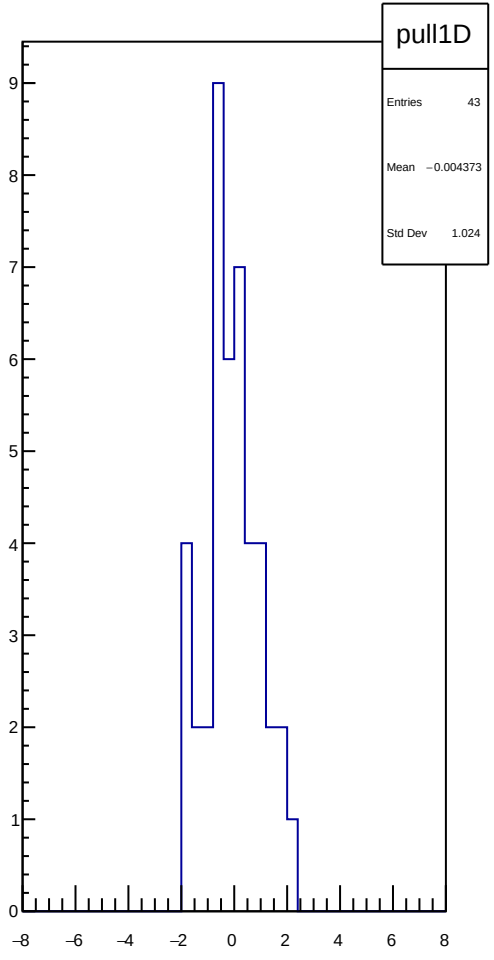

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.25 / 42
p0 4.004 ± 1.897
pull
Entries 43
Mean 74.16
Std Dev 29.02
pull1D
Entries 43
Mean −0.01658
Std Dev 0.8103

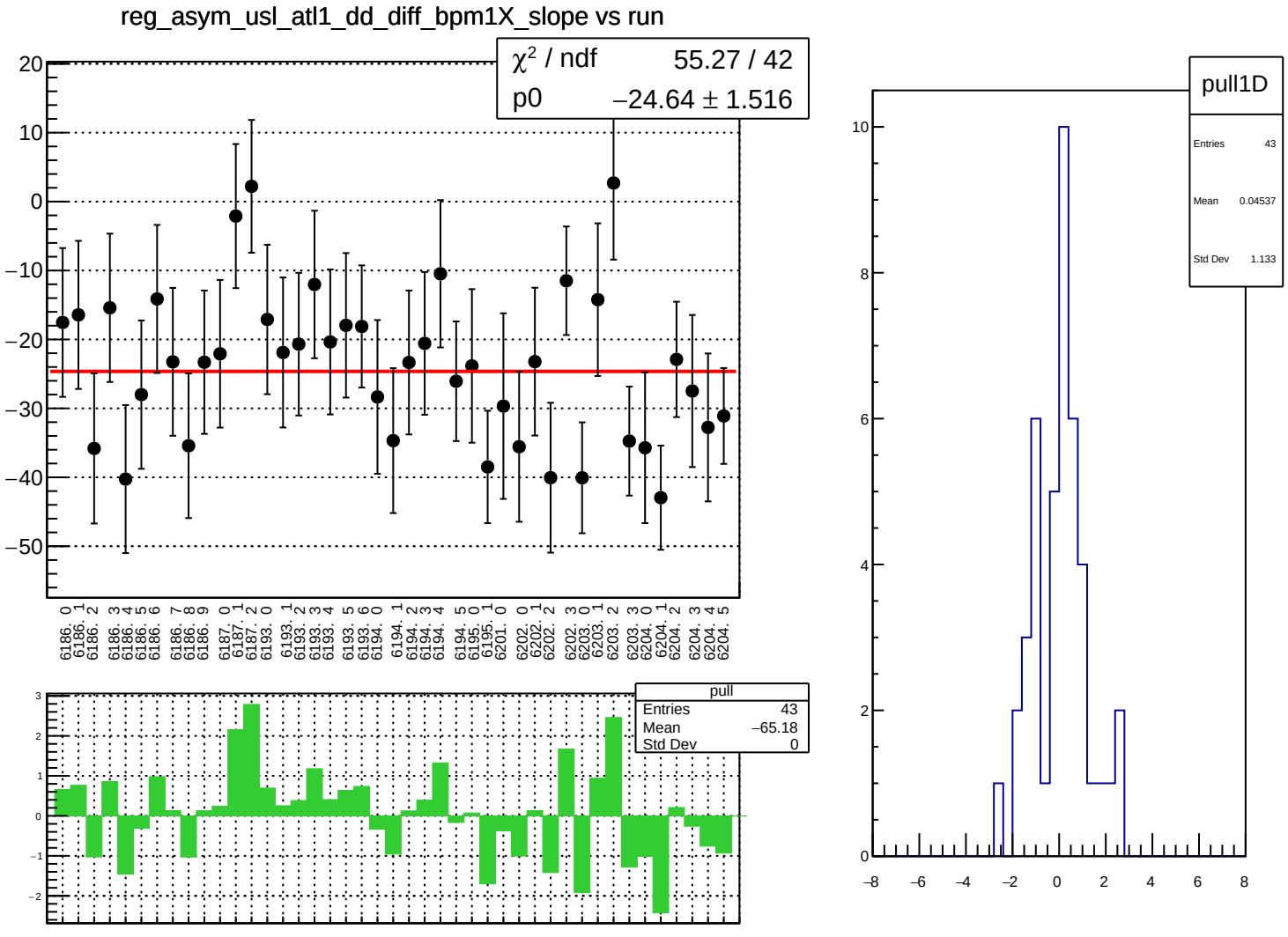

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.05 / 42
p0 36.78 ± 2.205
pull
Entries 43
Mean −120.6
Std Dev 0
pull1D
Entries 43
Mean 0.0329
Std Dev 1.141

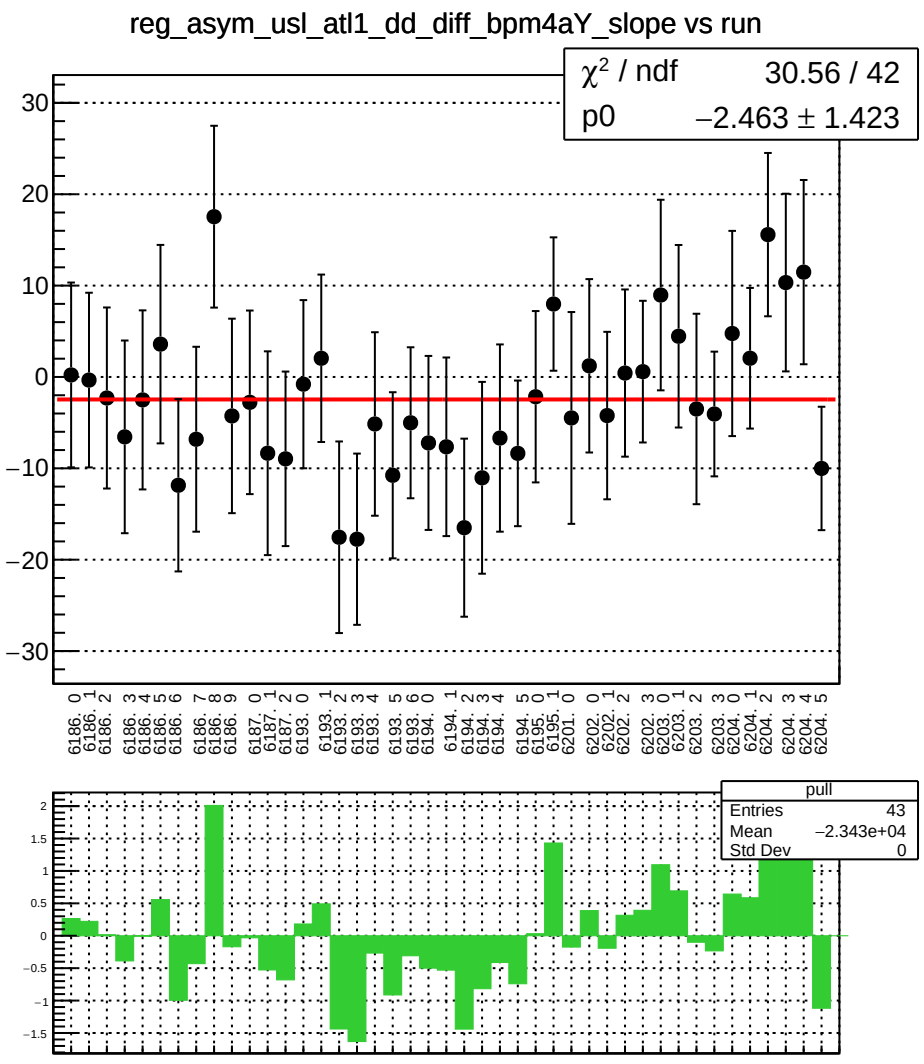

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.9 / 42
p0 4.228 ± 2.132
pull
Entries 43
Mean 64.87
Std Dev 43.06

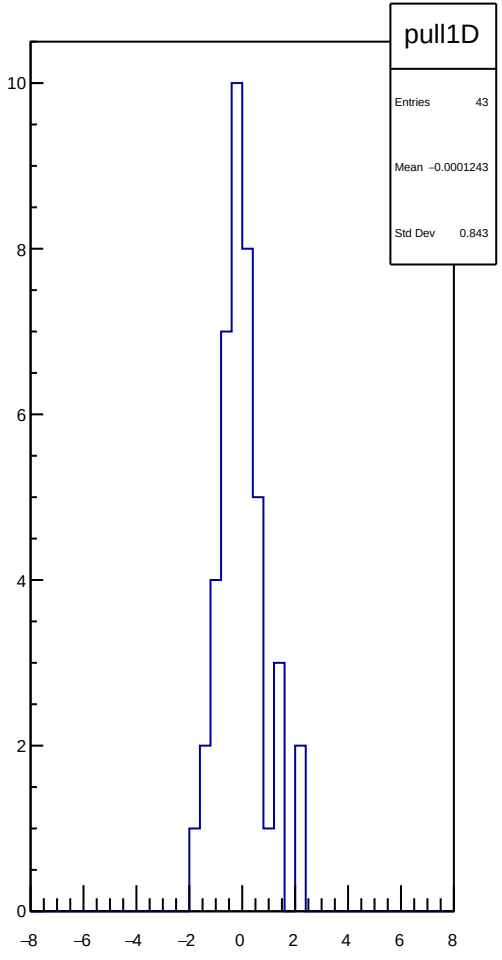

pull1D
Entries 43
Mean 0.01689
Std Dev 0.8197

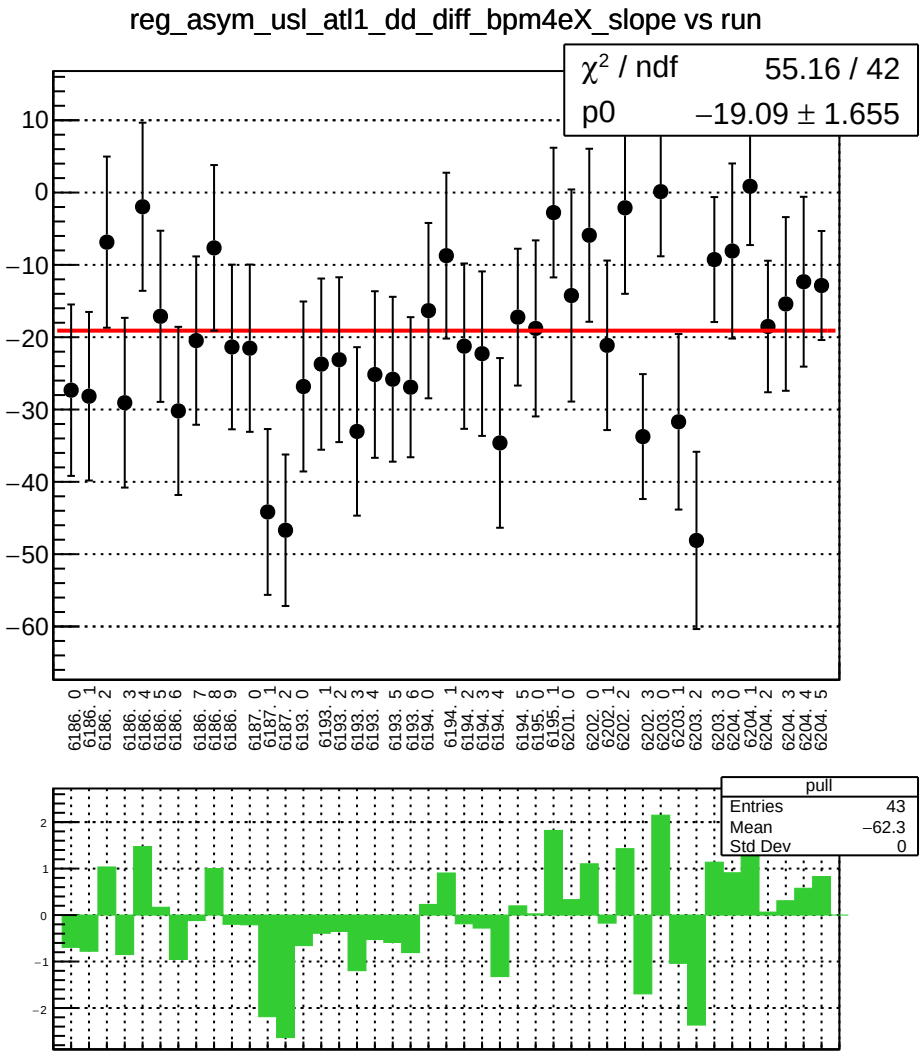

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 45.07 / 42
p0 −24.99 ± 0.1838
pull
Entries 43
Mean −1041
Std Dev 0

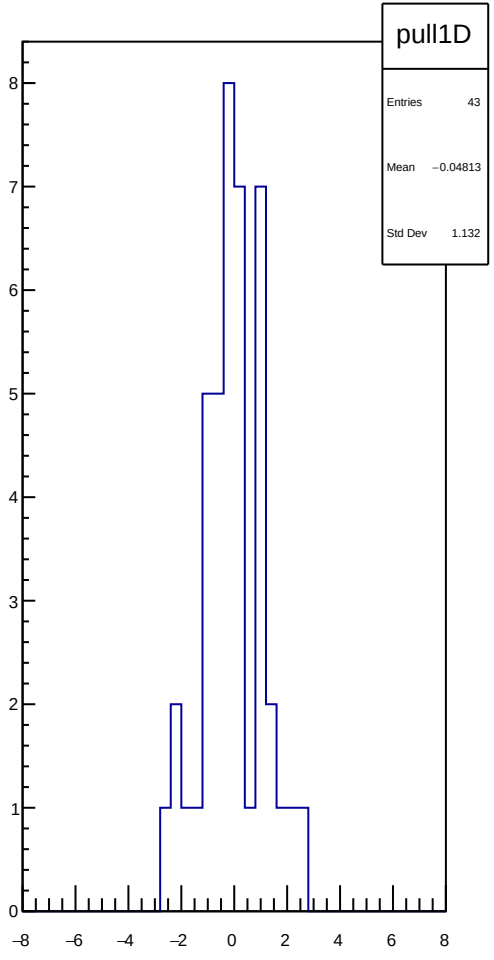

pull1D
Entries 43
Mean −0.004373
Std Dev 1.024

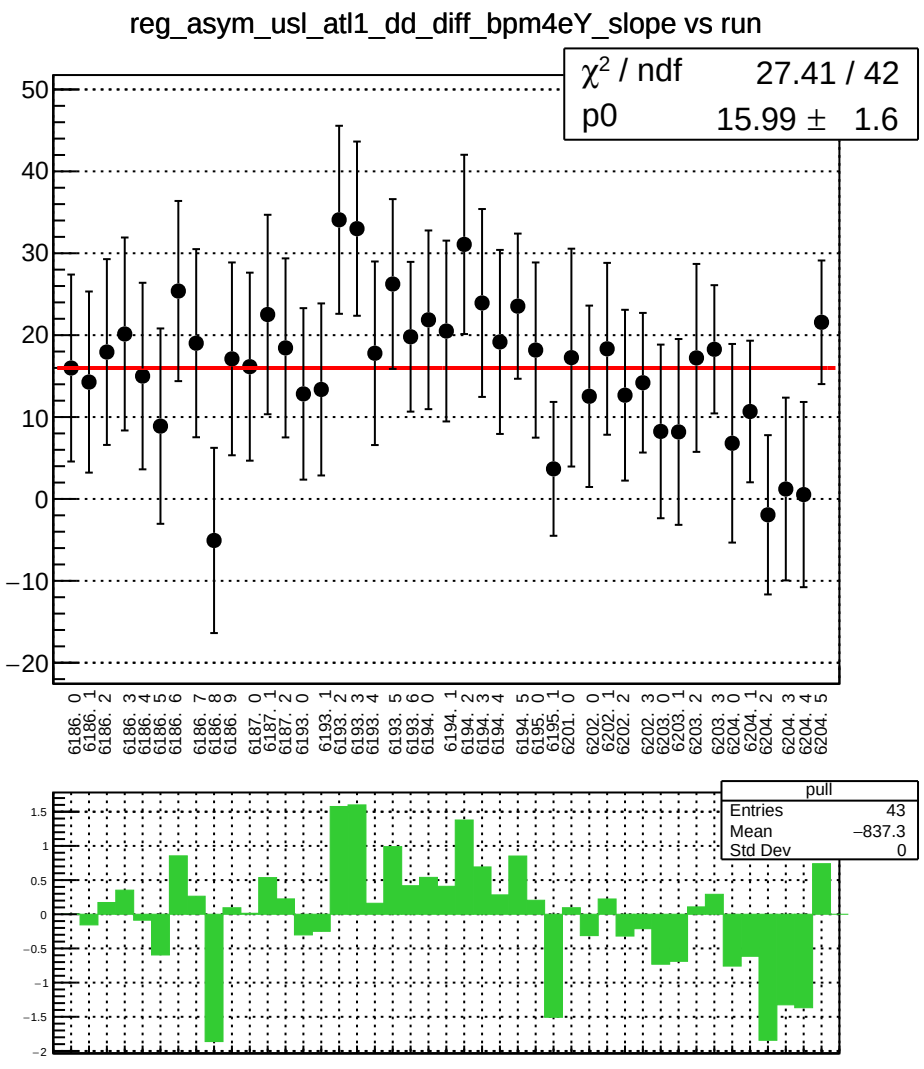

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 55.27 / 42
p0 −24.64 ± 1.516
pull
Entries 43
Mean −65.18
Std Dev 0
pull1D
Entries 43
Mean 0.04537
Std Dev 1.133

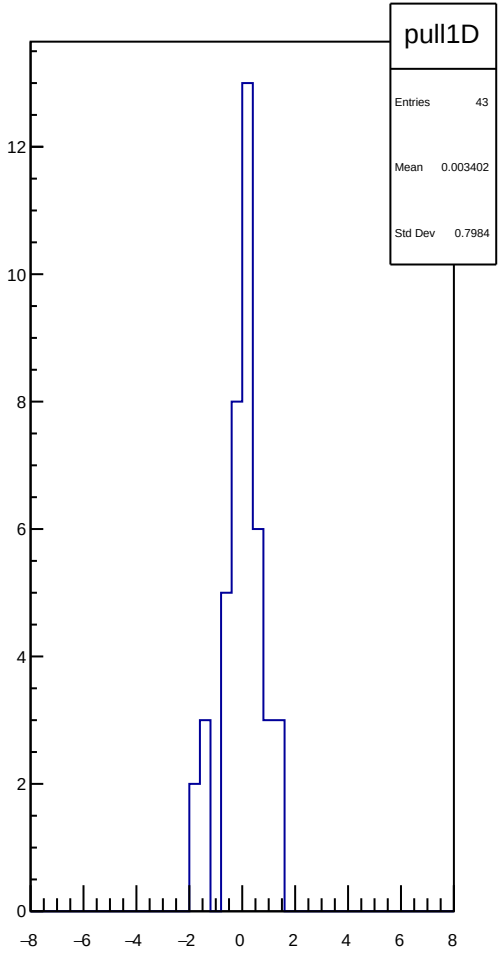

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.56 / 42
p0 −2.463 ± 1.423
pull
Entries 43
Mean −2.343e+04
Std Dev 0

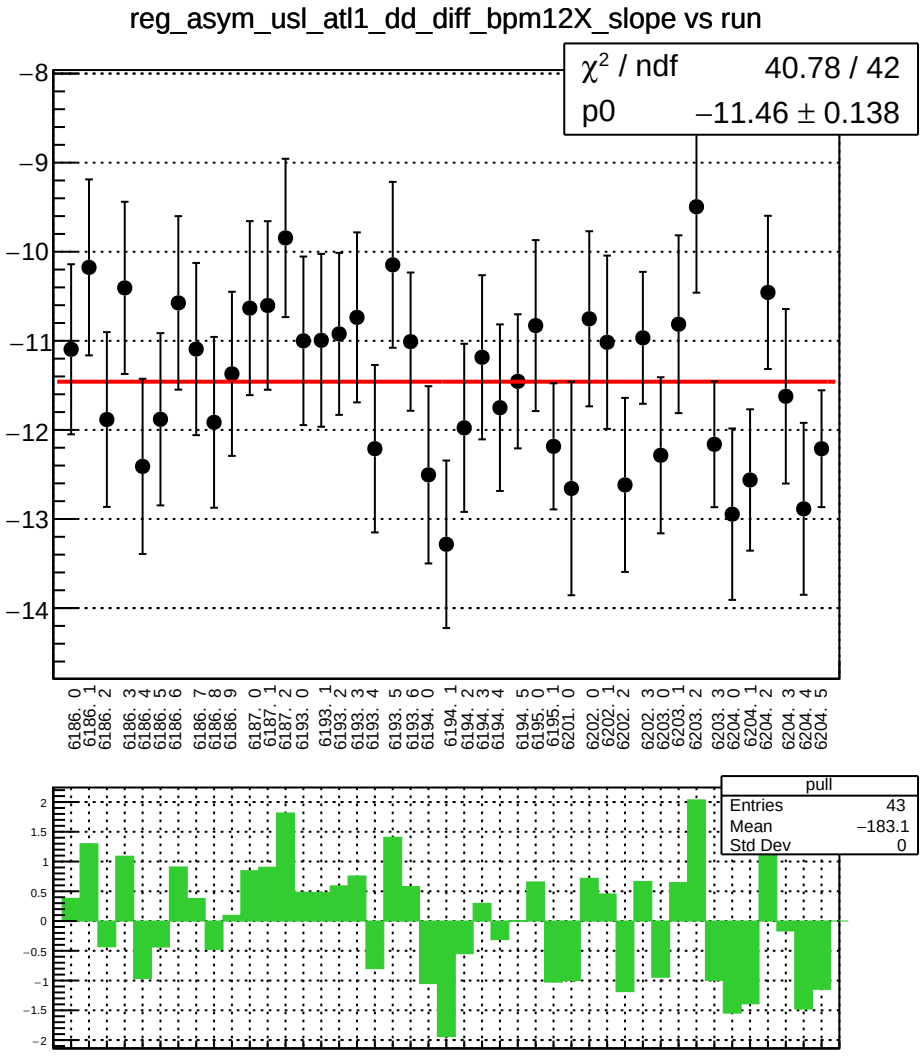

pull1D
Entries 43
Mean −0.0001243
Std Dev 0.843

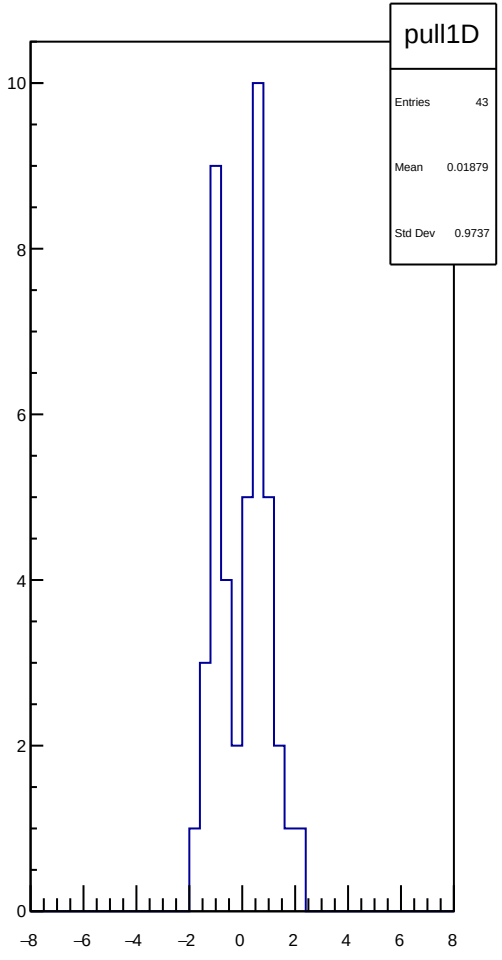

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.16 / 42
p0 −19.09 ± 1.655
pull
Entries 43
Mean −62.3
Std Dev 0

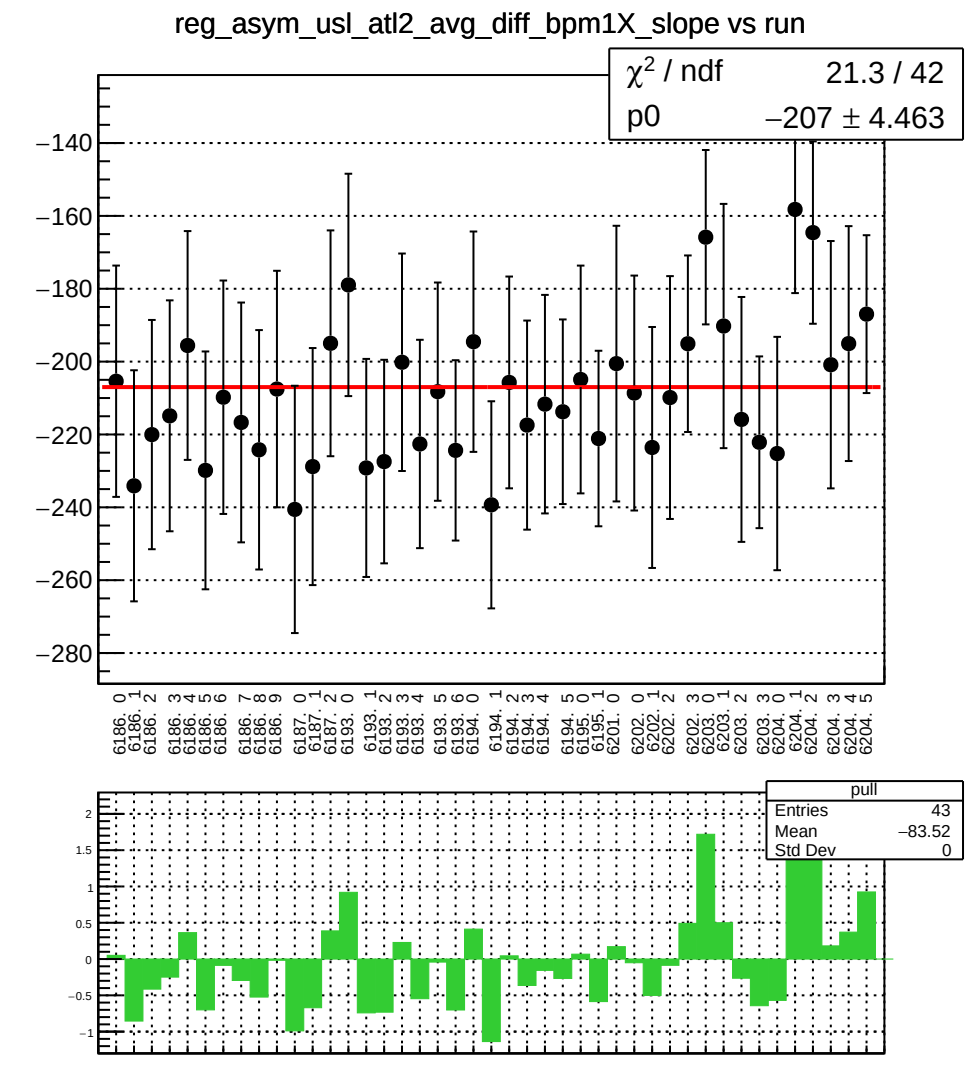

pull1D
Entries 43
Mean −0.04813
Std Dev 1.132

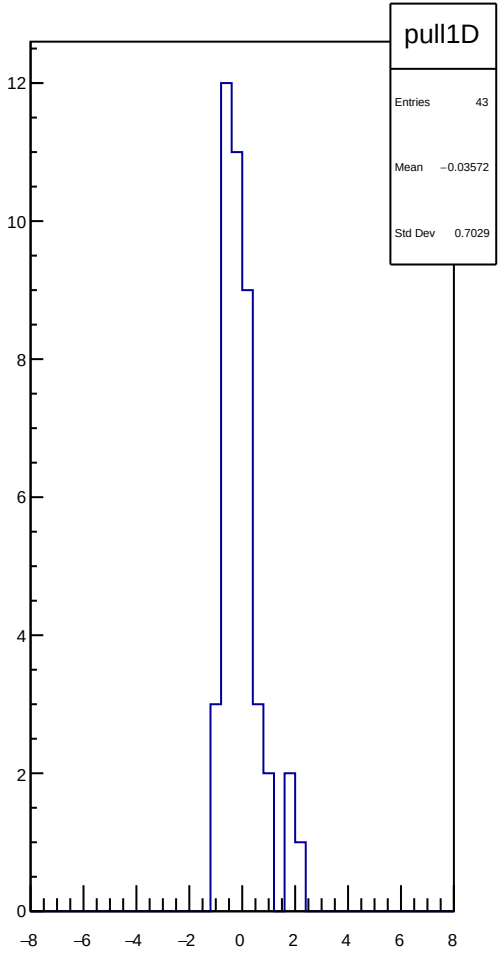

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.41 / 42
p0 15.99 ± 1.6
pull
Entries 43
Mean −837.3
Std Dev 0

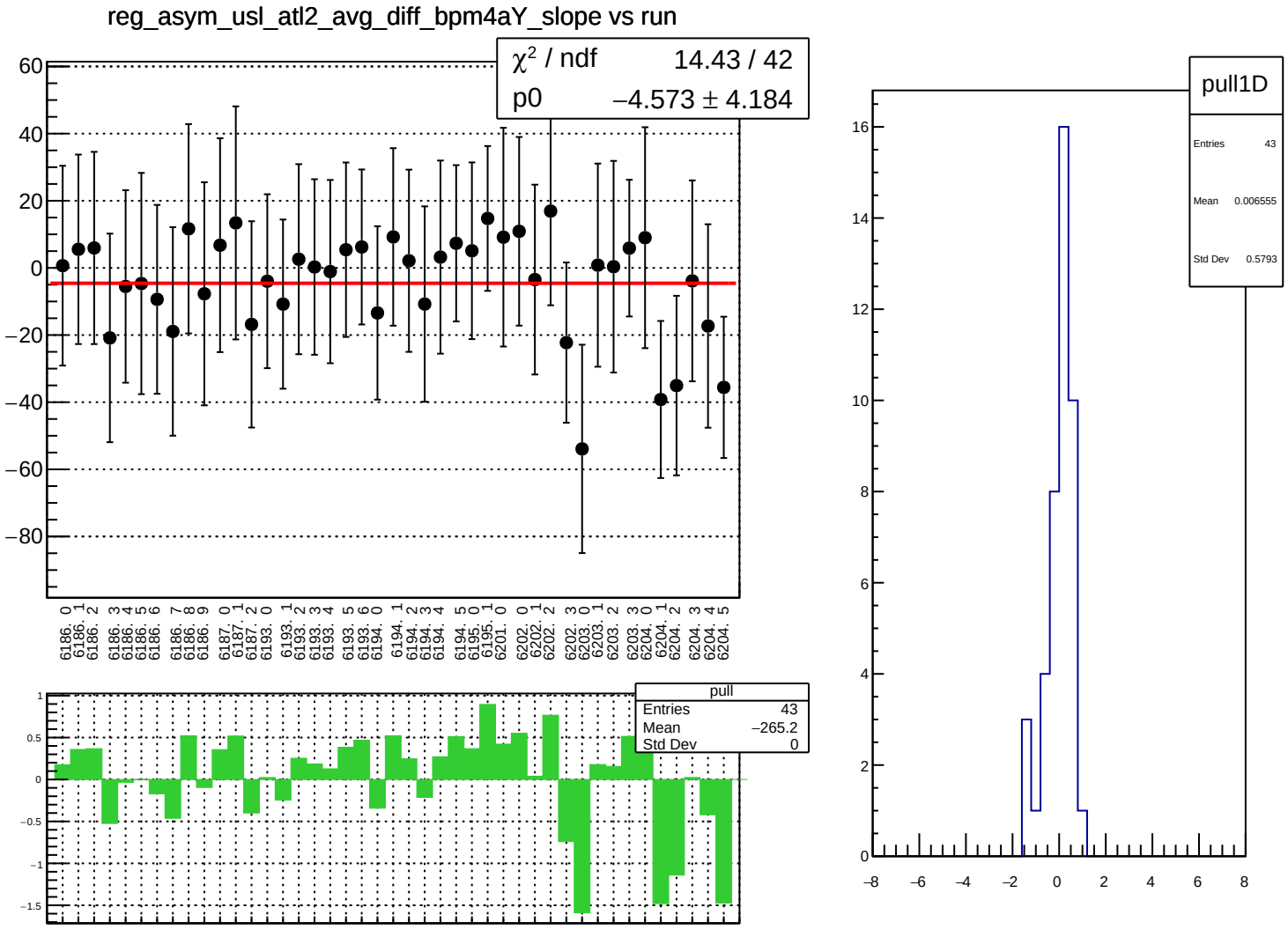

pull1D
Entries 43
Mean 0.003402
Std Dev 0.7984

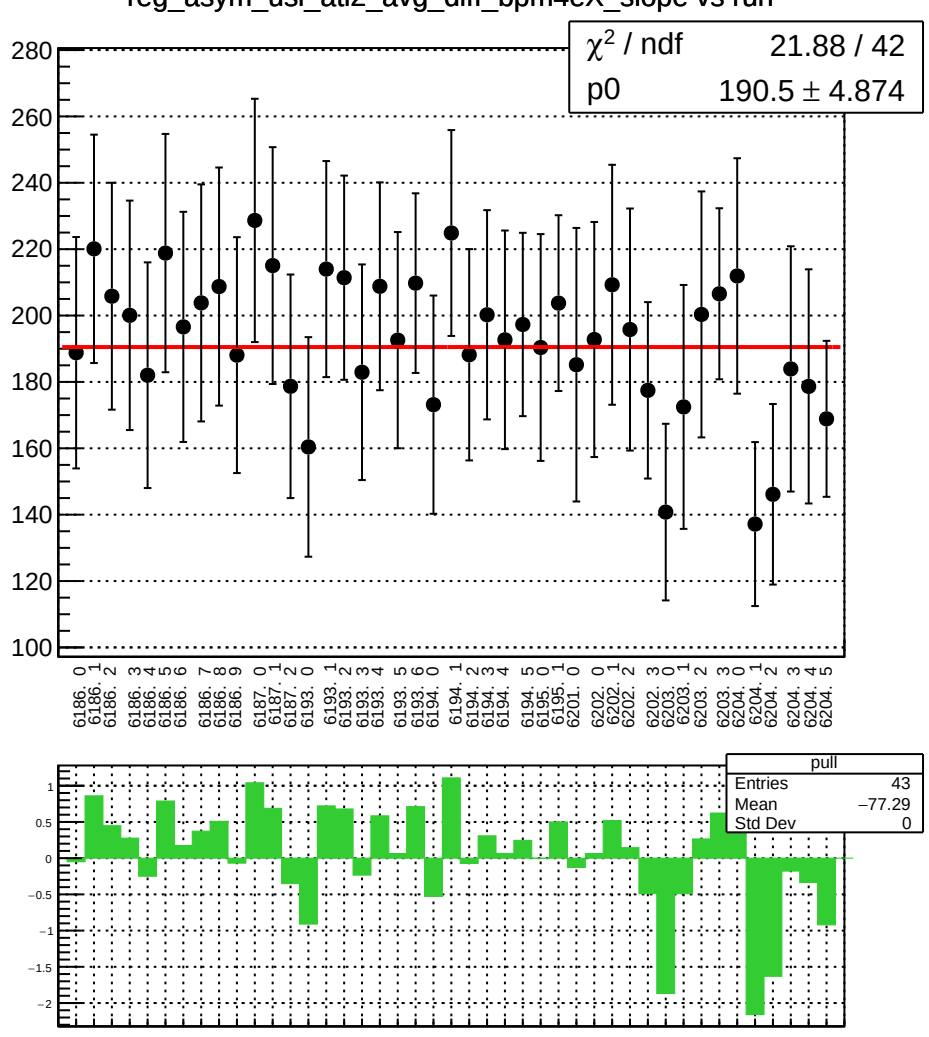

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 40.78 / 42
p0 −11.46 ± 0.138
pull
Entries 43
Mean −183.1
Std Dev 0

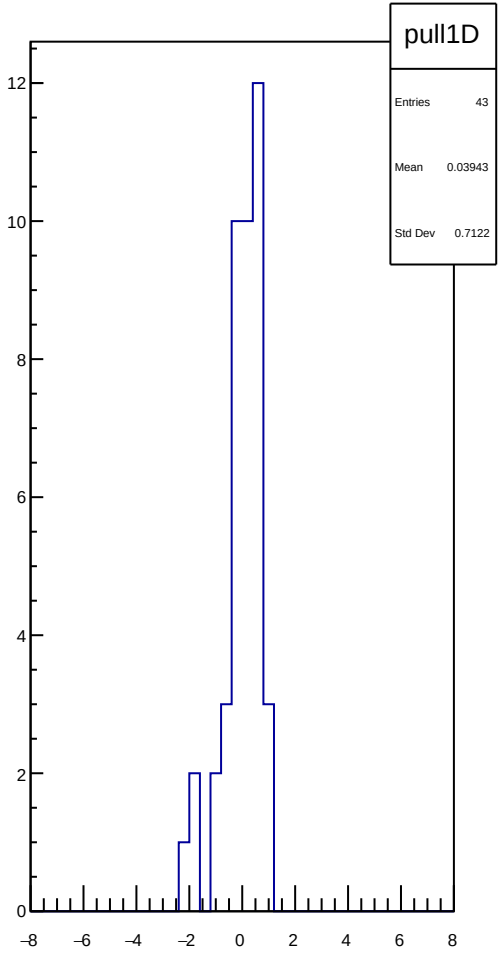

pull1D
Entries 43
Mean 0.01879
Std Dev 0.9737

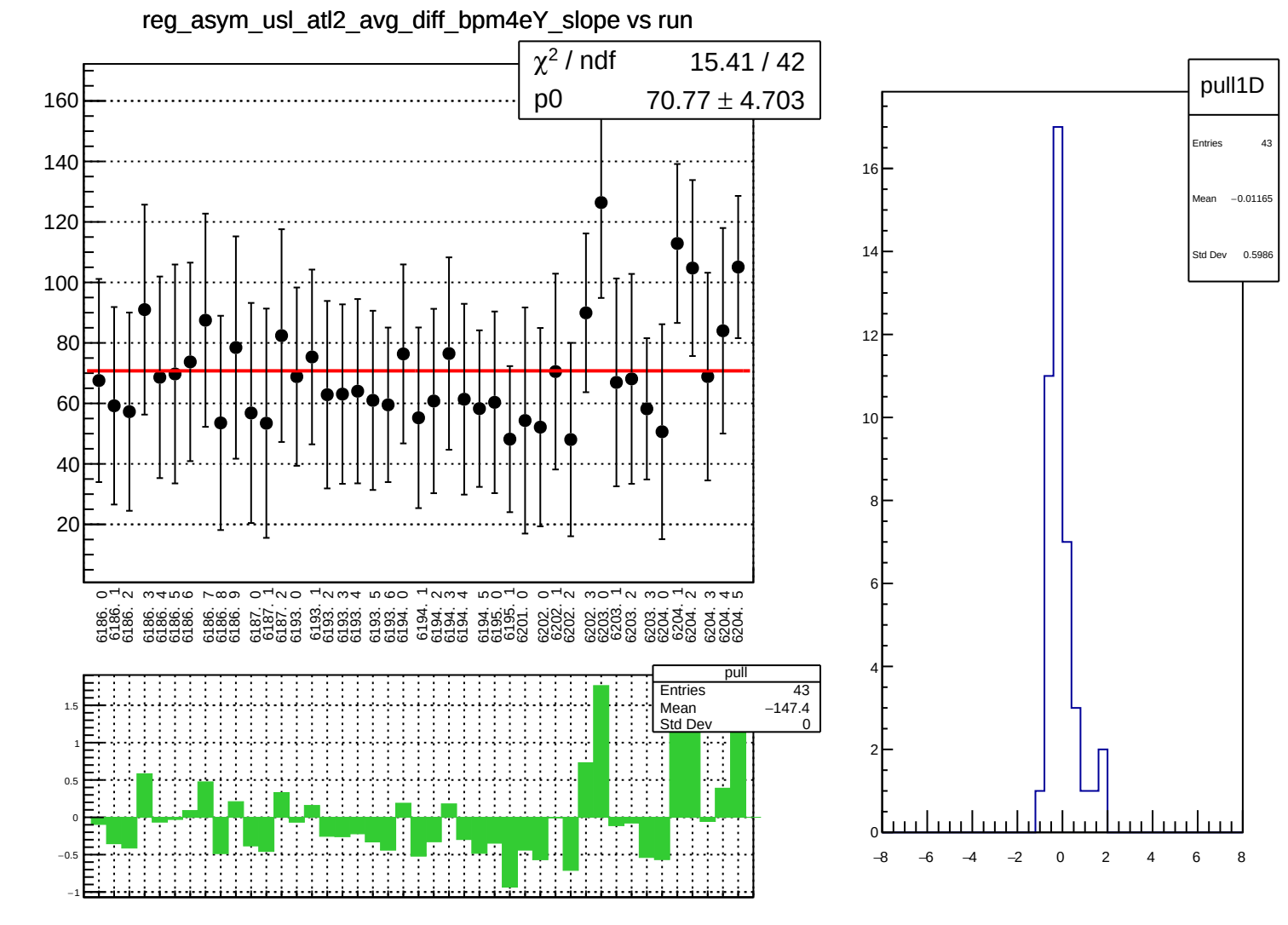

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 21.3 / 42
p0 −207 ± 4.463
−140
−160
−180
−200
−220
−240
−260
−280
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −83.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

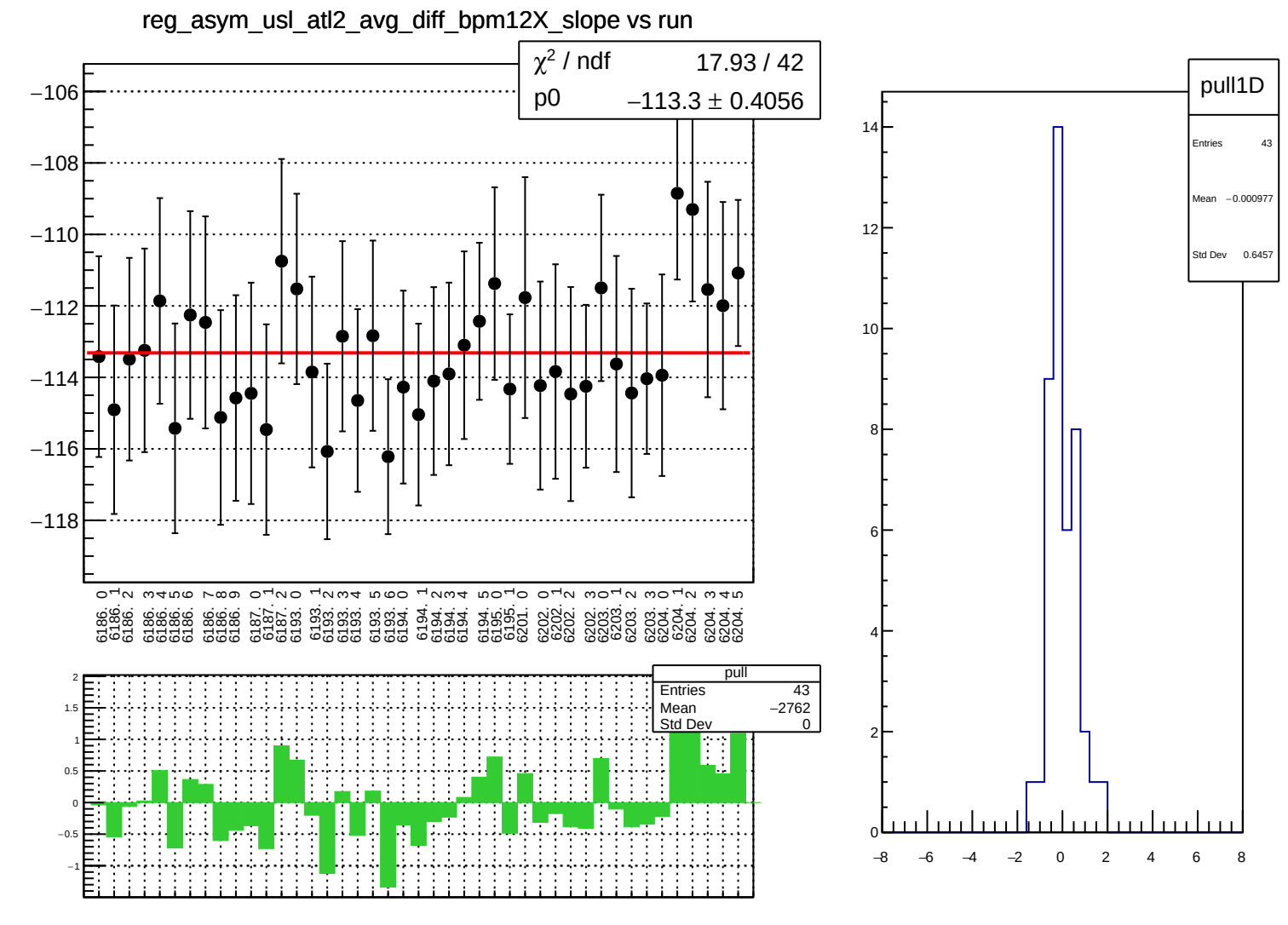

pull1D
Entries 43
Mean −0.03572
Std Dev 0.7029
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

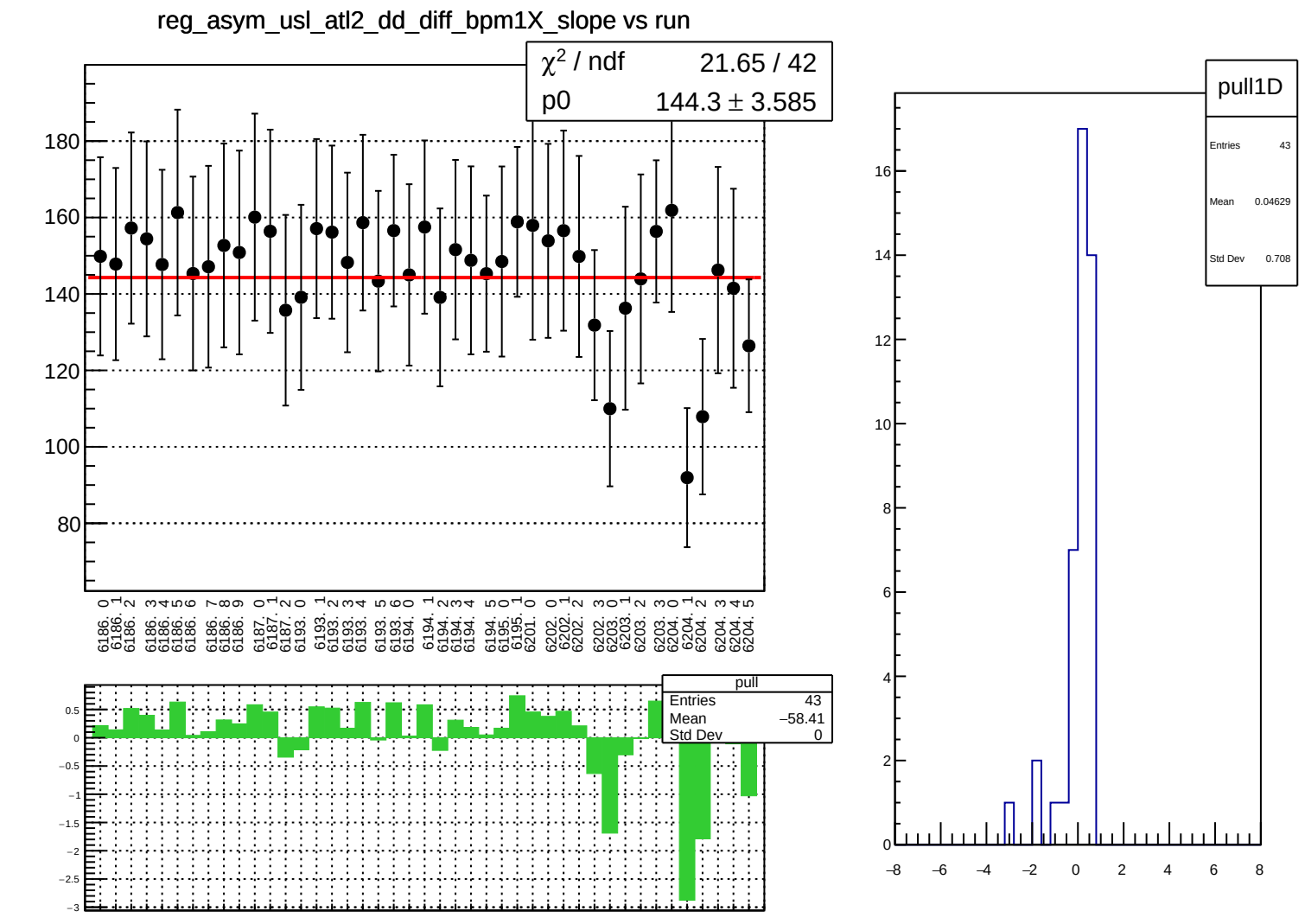

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.43 / 42
p0 −4.573 ± 4.184
60
40
20
0
−20
−40
−60
−80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −265.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.006555
Std Dev 0.5793
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

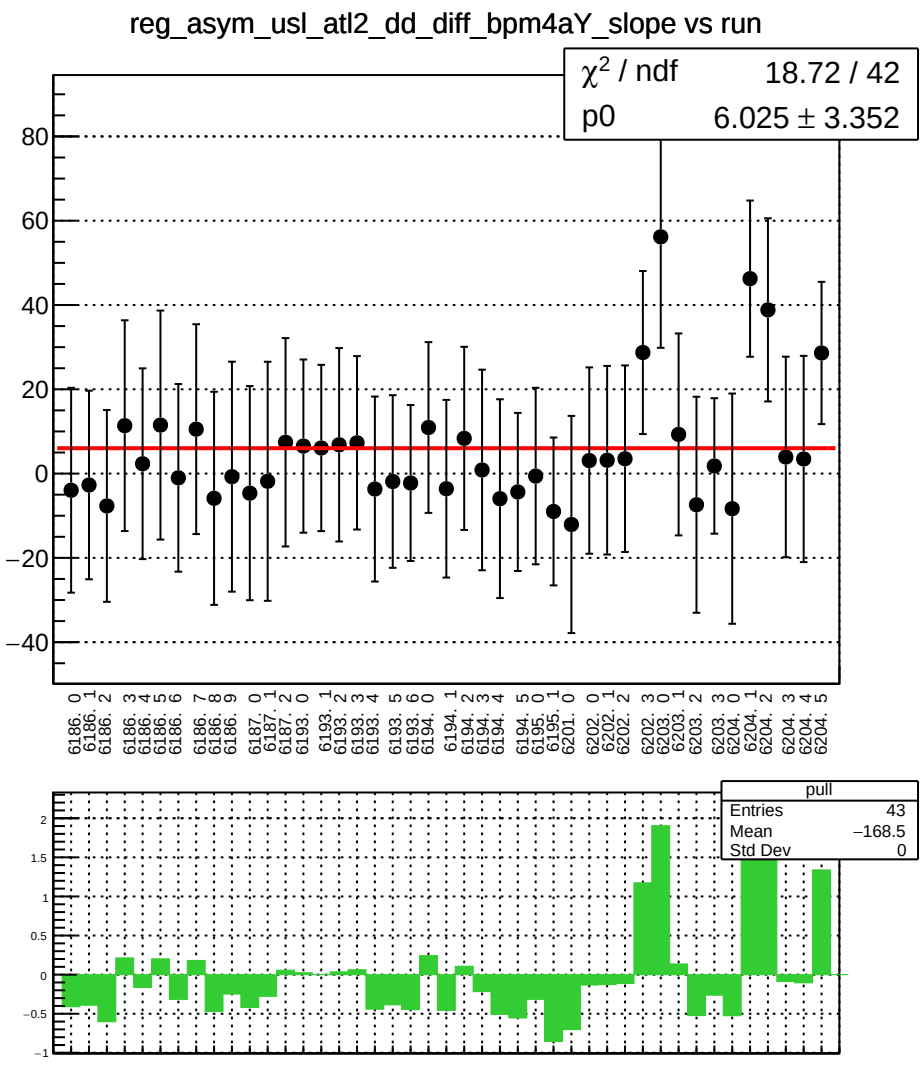

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.88 / 42
p0 190.5 ± 4.874
pull
Entries 43
Mean −77.29
Std Dev 0

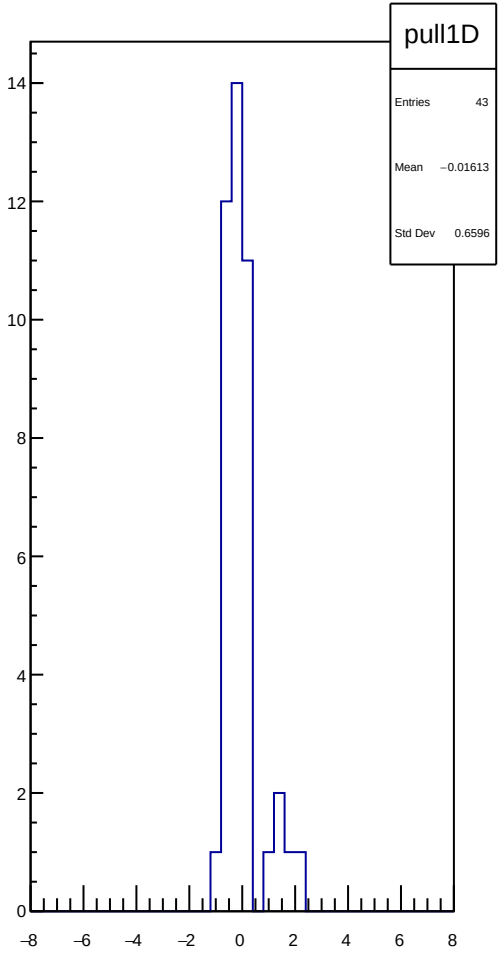

pull1D
Entries 43
Mean 0.03943
Std Dev 0.7122

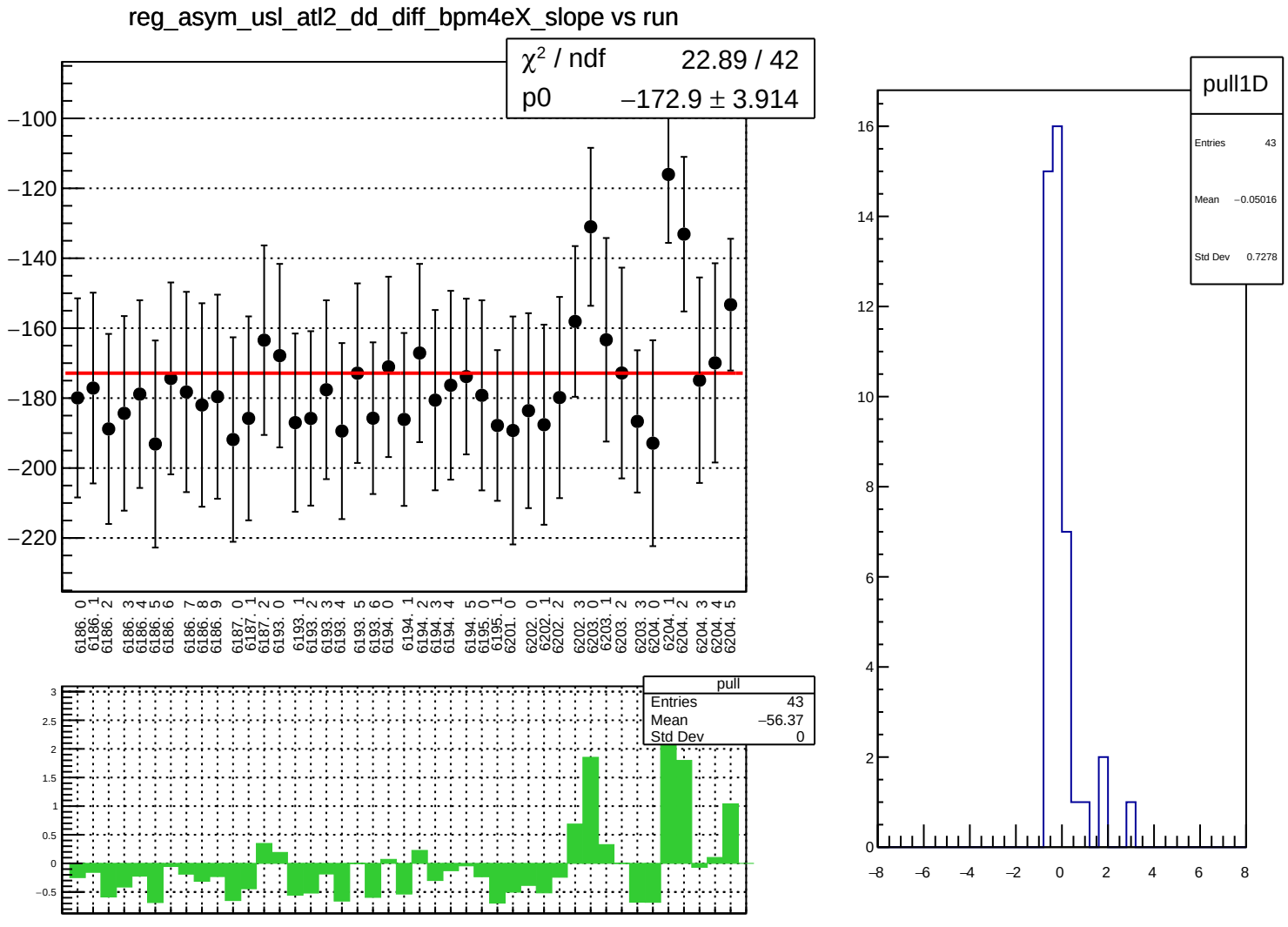

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.41 / 42
p0 70.77 ± 4.703
pull
Entries 43
Mean −147.4
Std Dev 0
pull1D
Entries 43
Mean −0.01165
Std Dev 0.5986

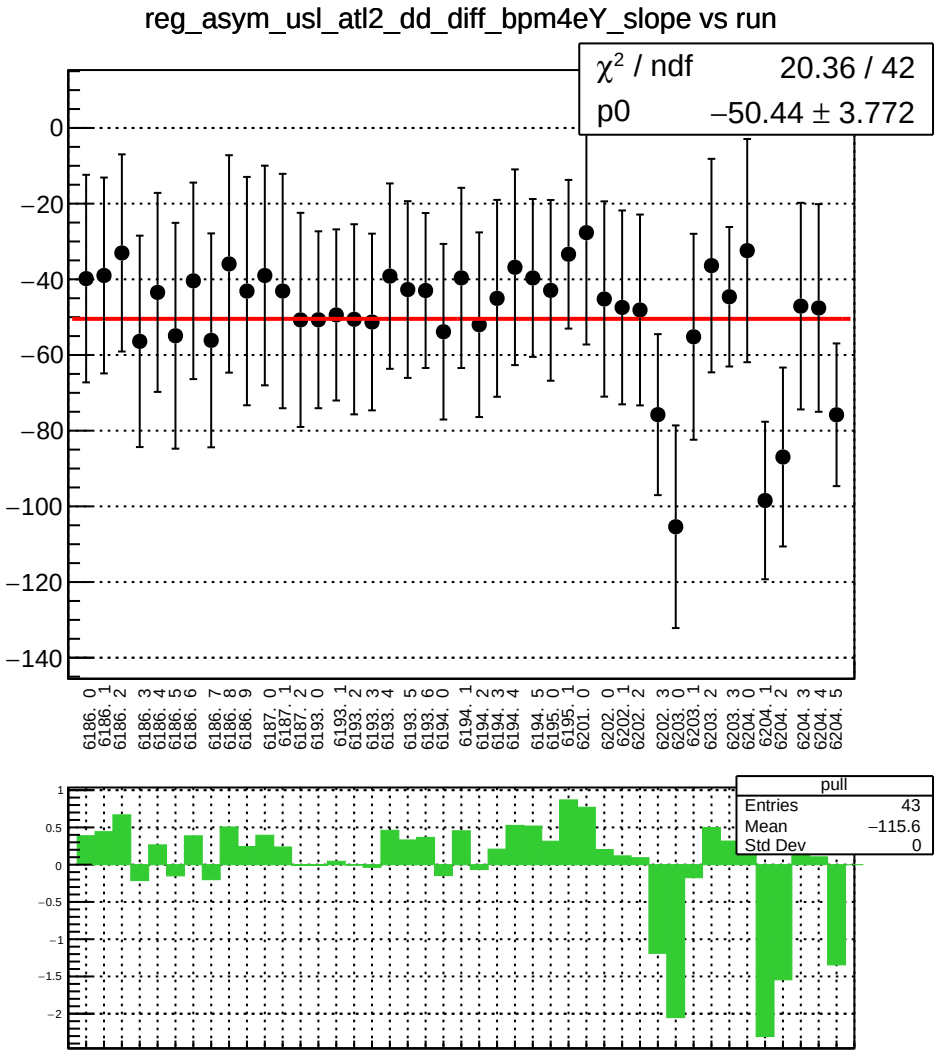

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 17.93 / 42
p0 −113.3 ± 0.4056
pull
Entries 43
Mean −2762
Std Dev 0
pull1D
Entries 43
Mean −0.000977
Std Dev 0.6457

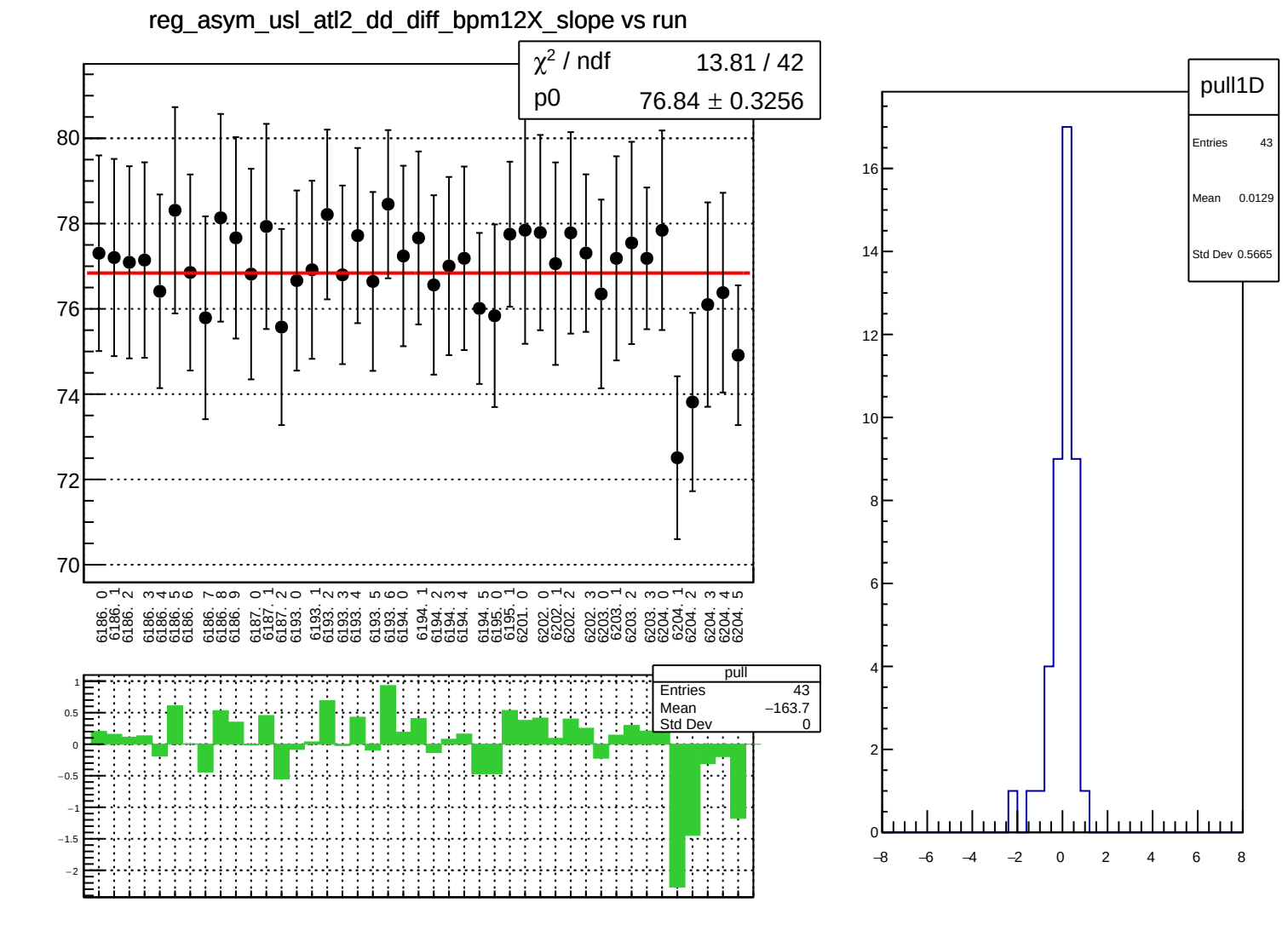

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 21.65 / 42
p0 144.3 ± 3.585
180
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −58.41
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 43
Mean 0.04629
Std Dev 0.708
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

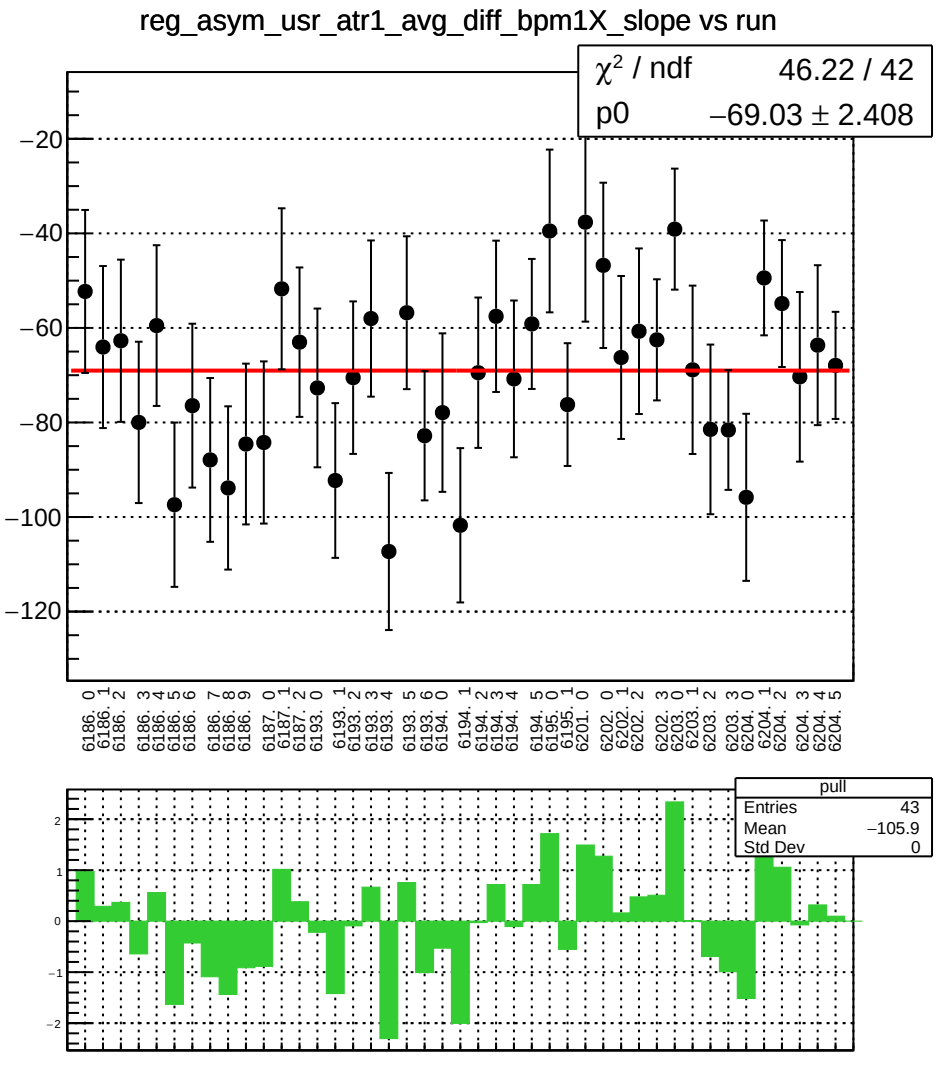

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.72 / 42
p0 6.025 ± 3.352
pull
Entries 43
Mean −168.5
Std Dev 0

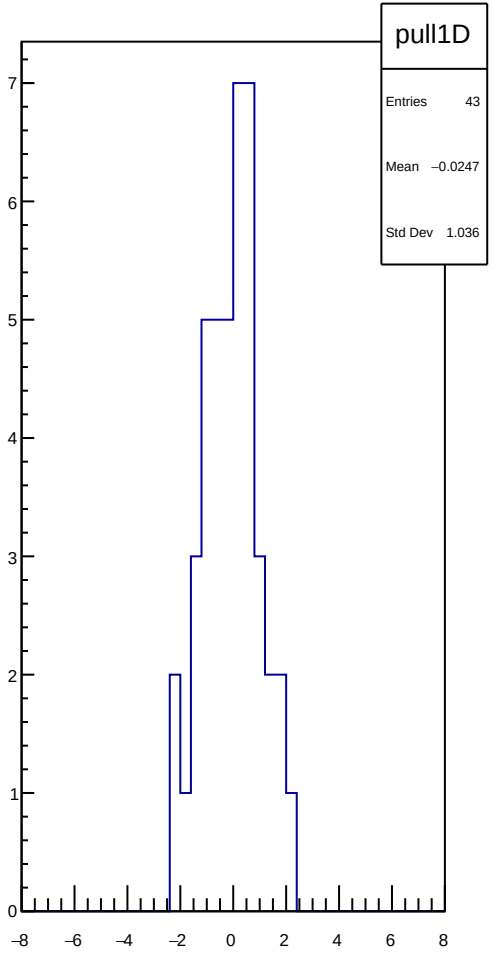

pull1D
Entries 43
Mean −0.01613
Std Dev 0.6596

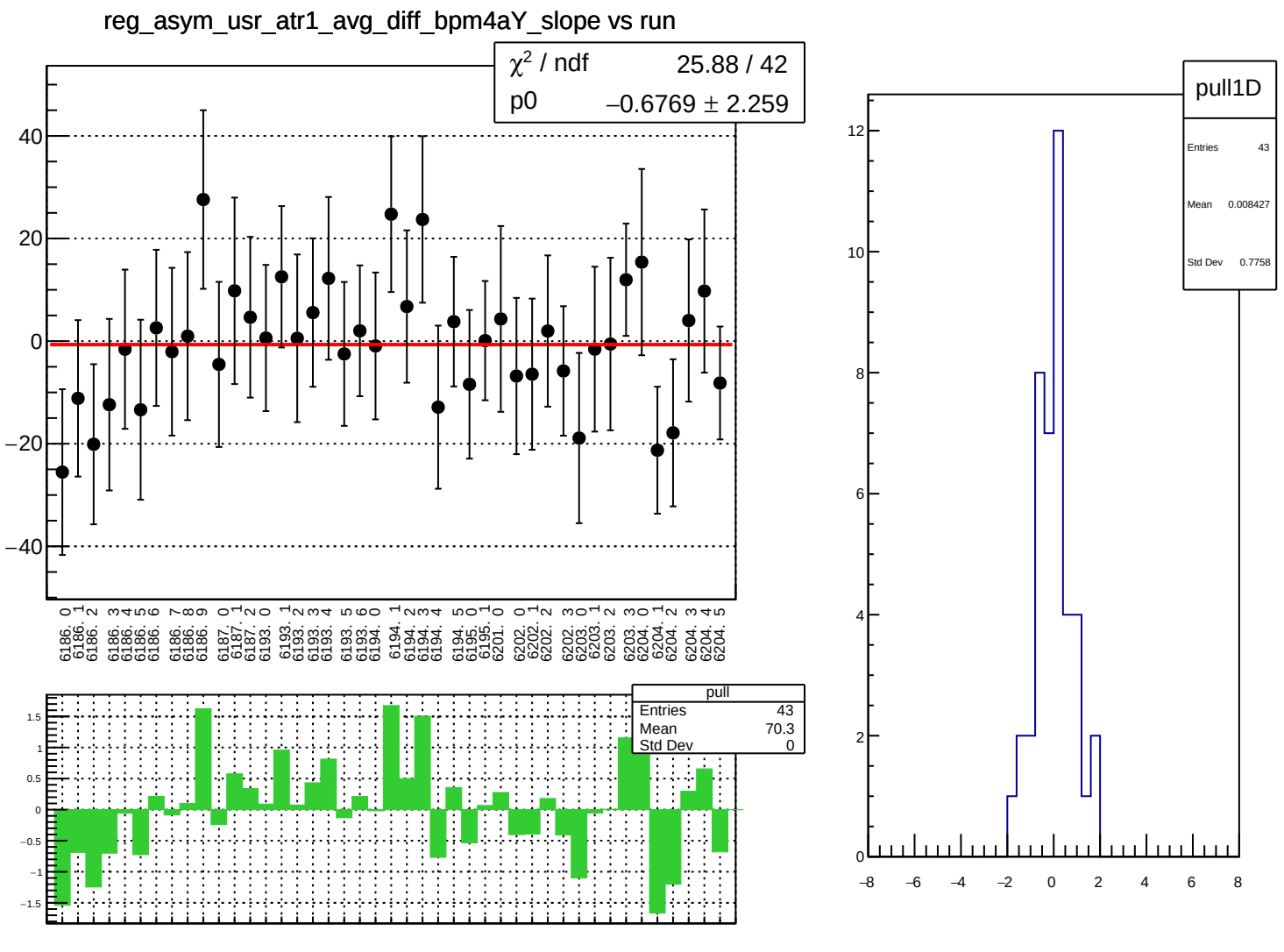

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.89 / 42
p0 −172.9 ± 3.914
−100
−120
−140
−160
−180
−200
−220
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −56.37
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.05016
Std Dev 0.7278
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

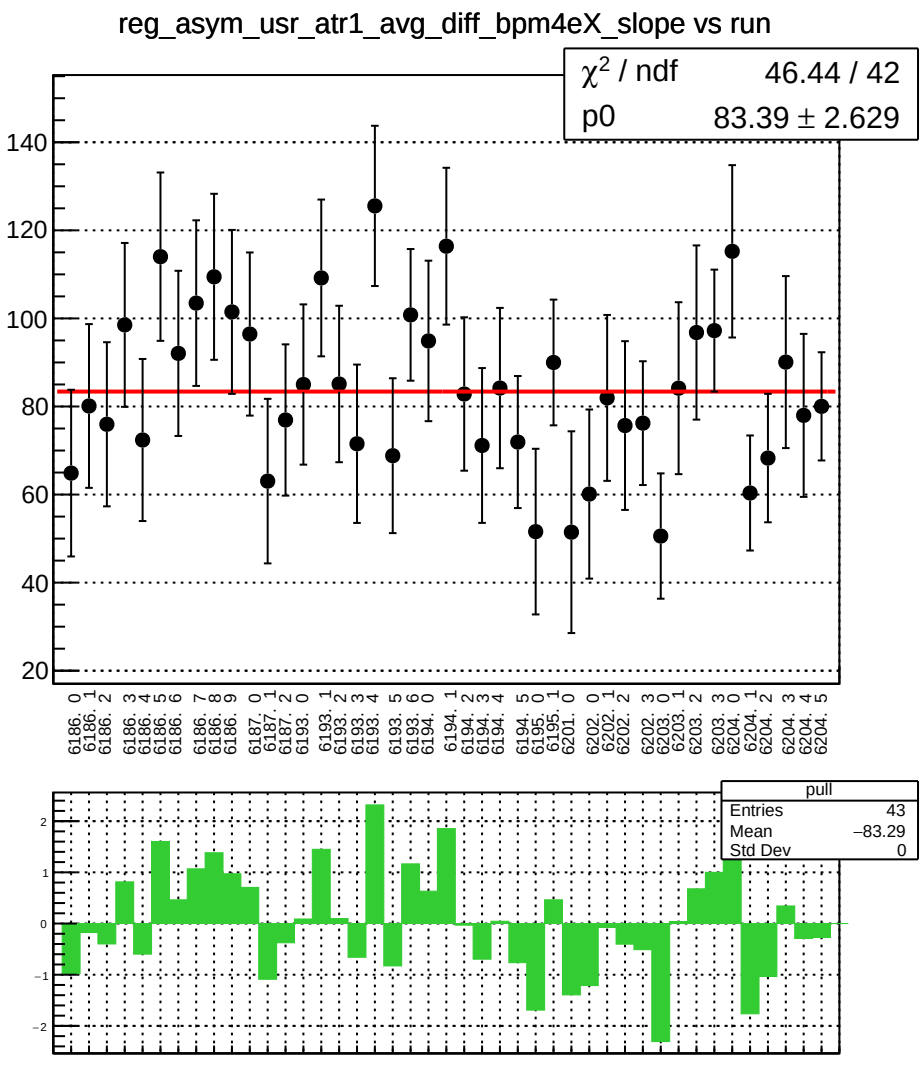

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.36 / 42
p0 −50.44 ± 3.772
0
−20
−40
−60
−80
−100
−120
−140
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −115.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02374
Std Dev 0.6877
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

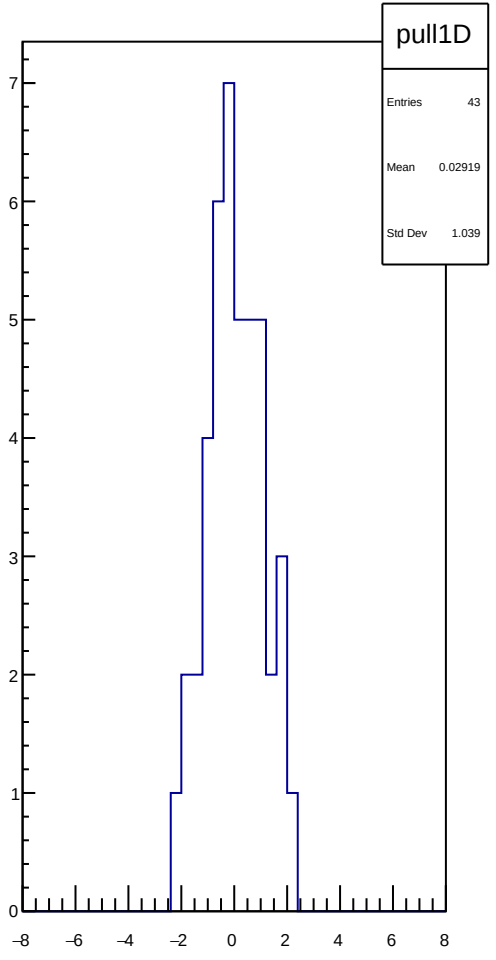

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.81 / 42
p0 76.84 ± 0.3256
80
78
76
74
72
70
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −163.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.0129
Std Dev 0.5665
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

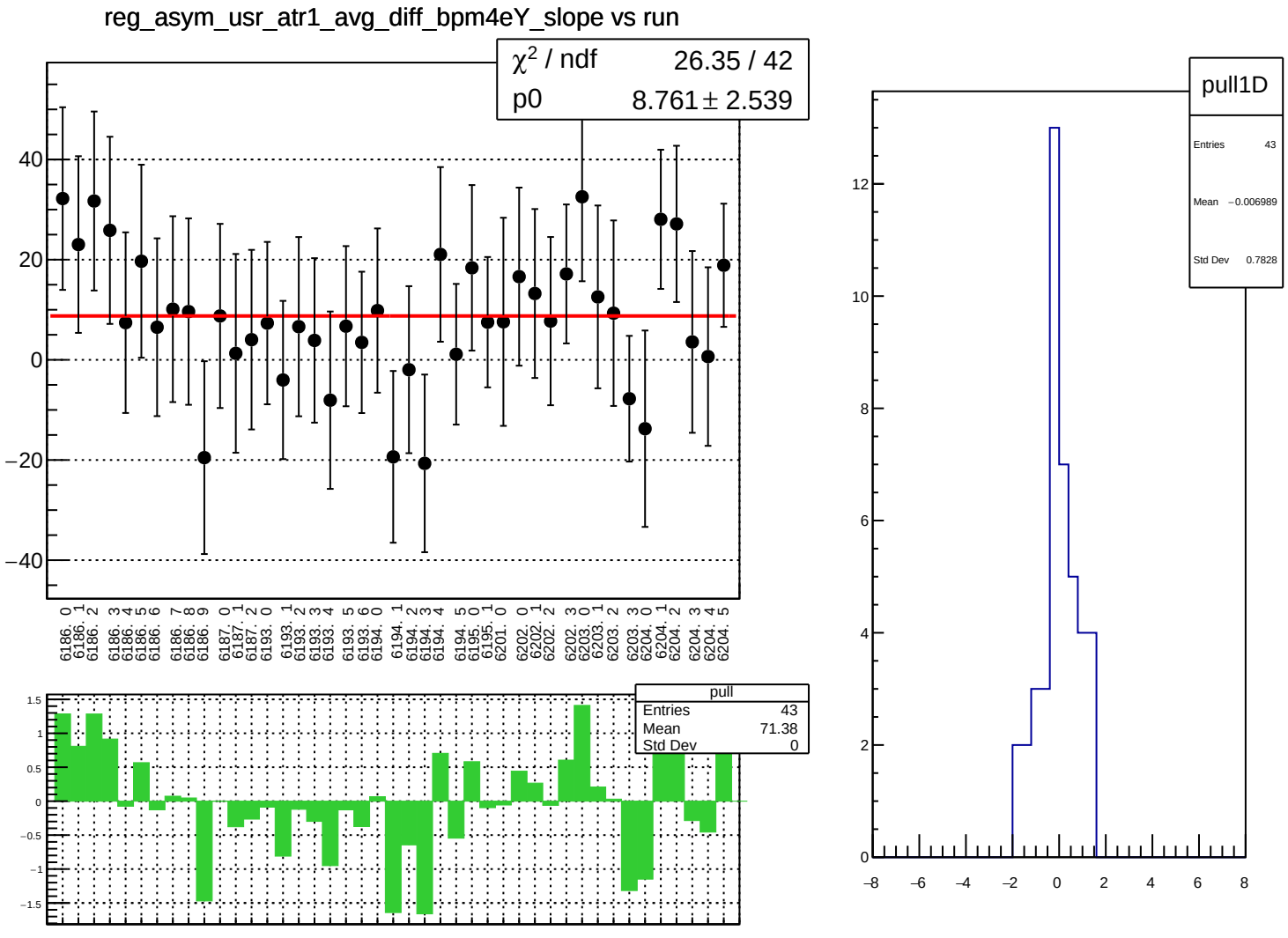

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 46.22 / 42
p0 −69.03 ± 2.408
−20
−40
−60
−80
−100
−120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −105.9
Std Dev 0
2
1
0
−1
−2

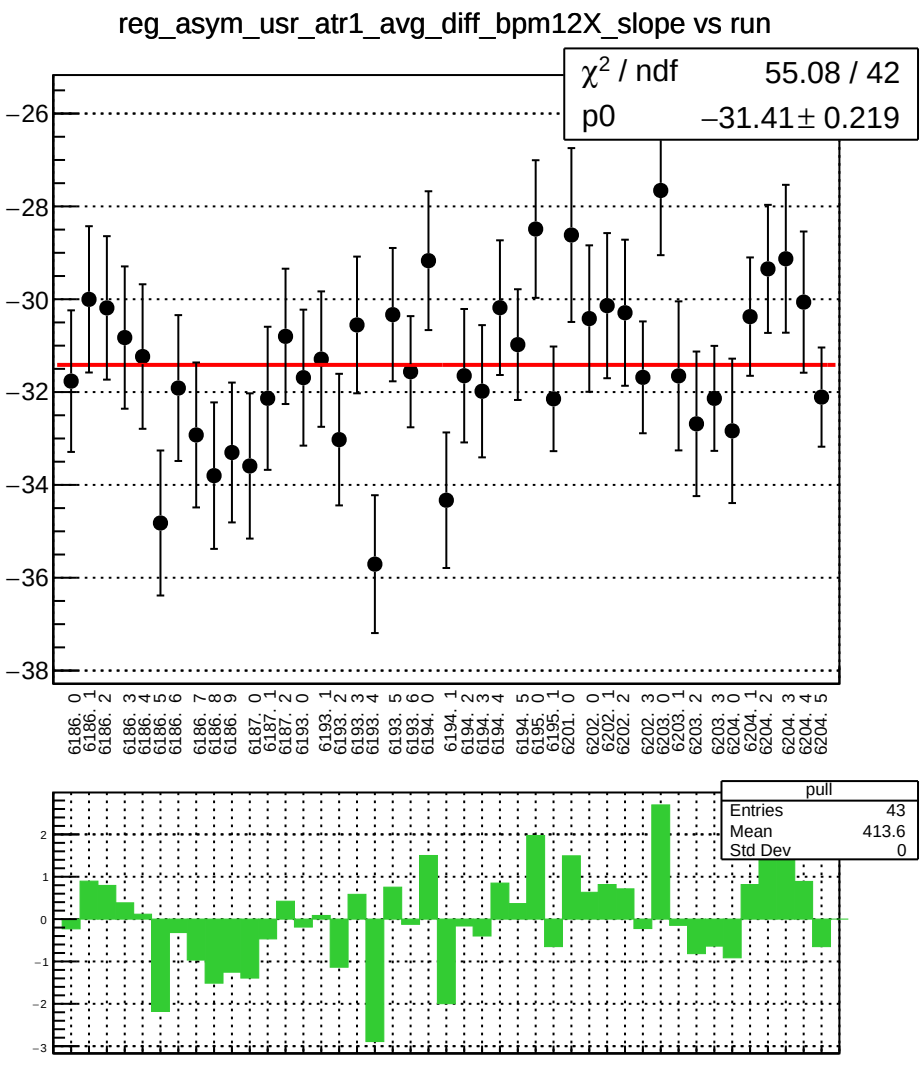

pull1D
Entries 43
Mean −0.0247
Std Dev 1.036
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

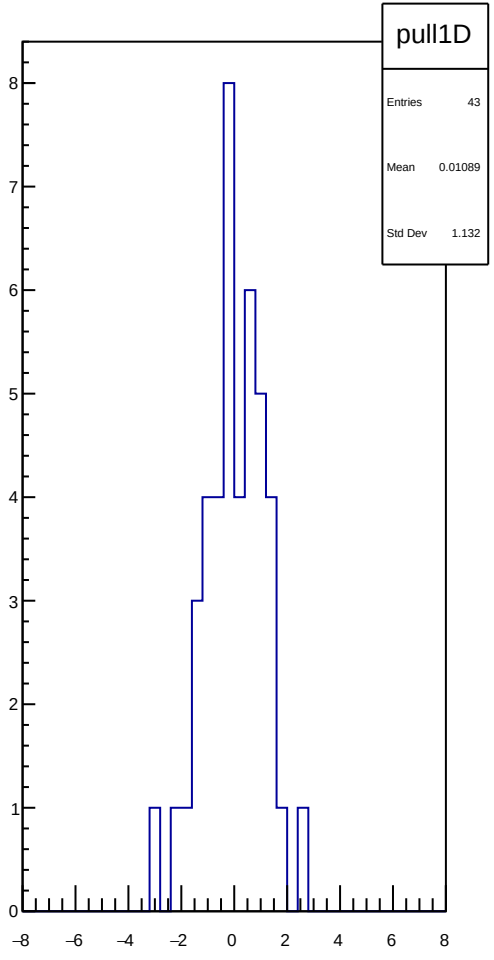

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.88 / 42
p0 −0.6769 ± 2.259
40
20
0
−20
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 70.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.008427
Std Dev 0.7758
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

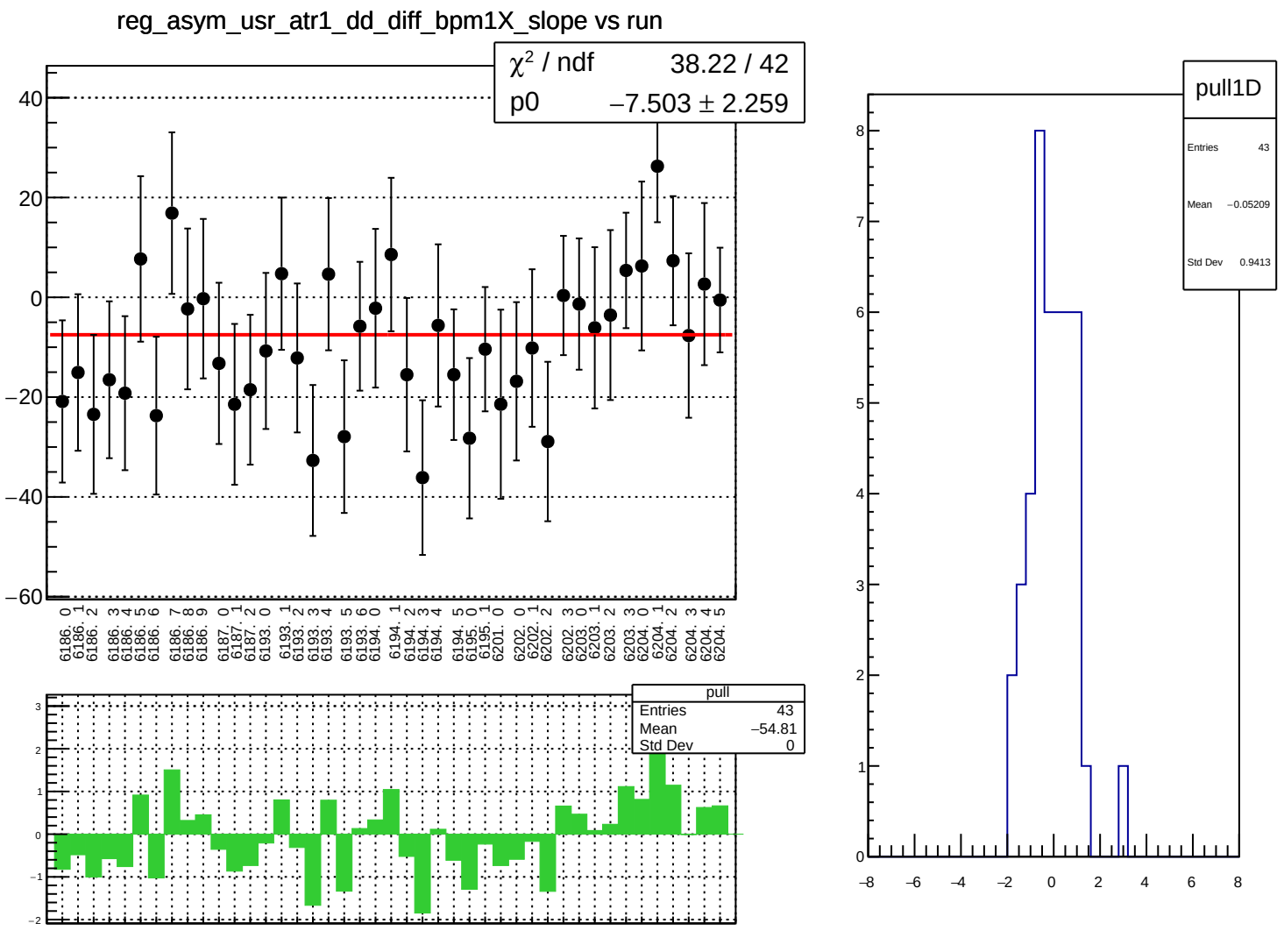

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.44 / 42
p0 83.39 ± 2.629
pull
Entries 43
Mean −83.29
Std Dev 0

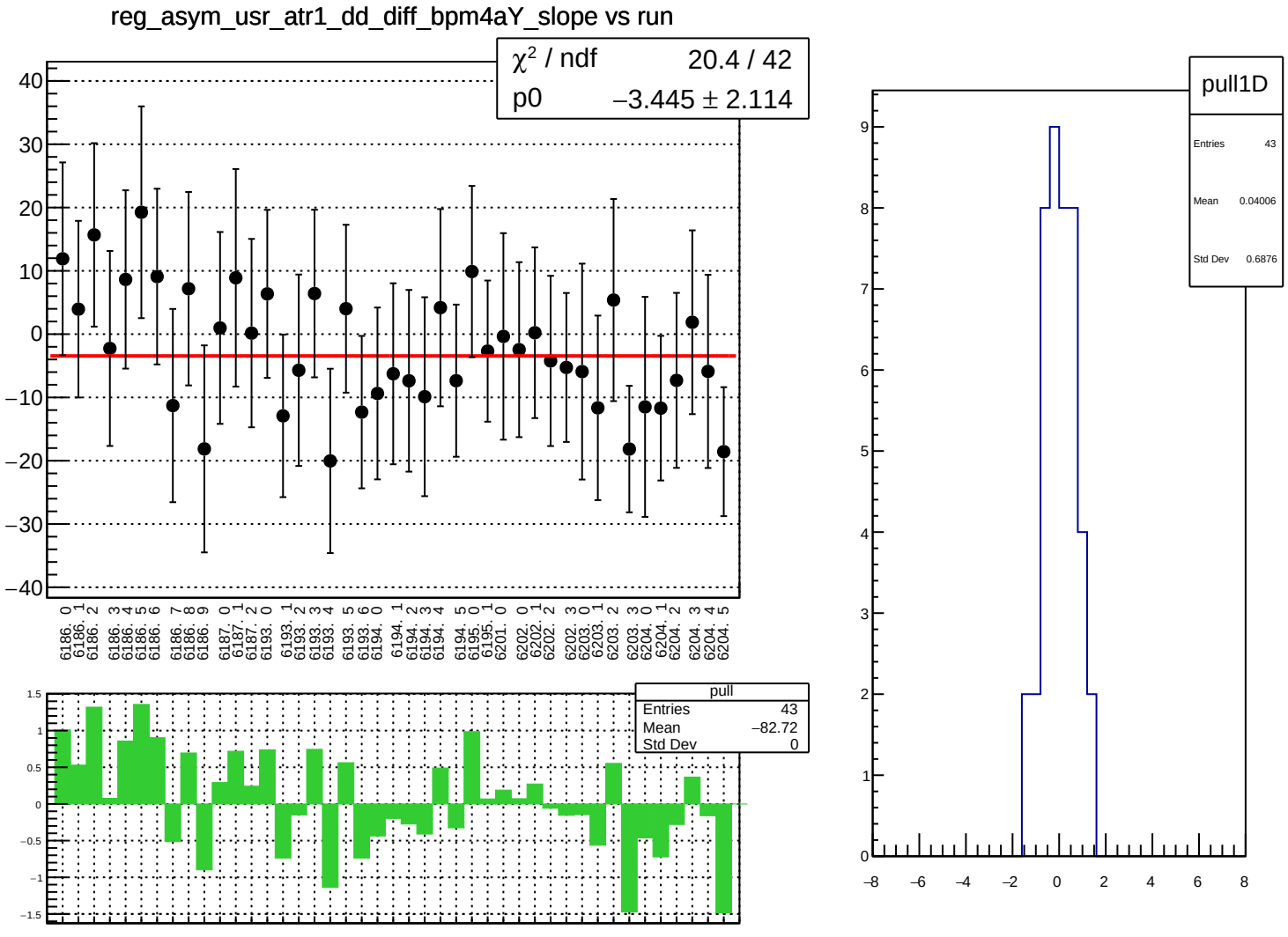

pull1D
Entries 43
Mean 0.02919
Std Dev 1.039

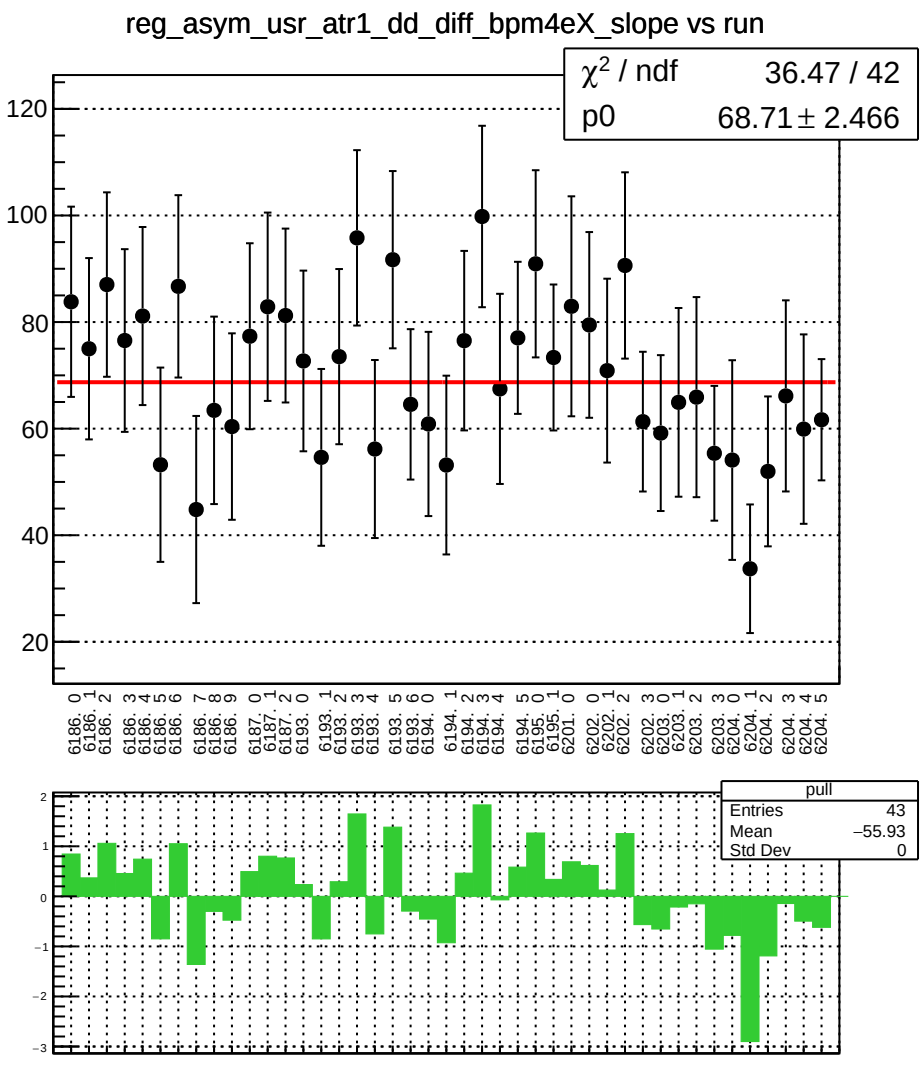

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.35 / 42
p0 8.761 ± 2.539
40
20
0
−20
−40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 71.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.006989
Std Dev 0.7828
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

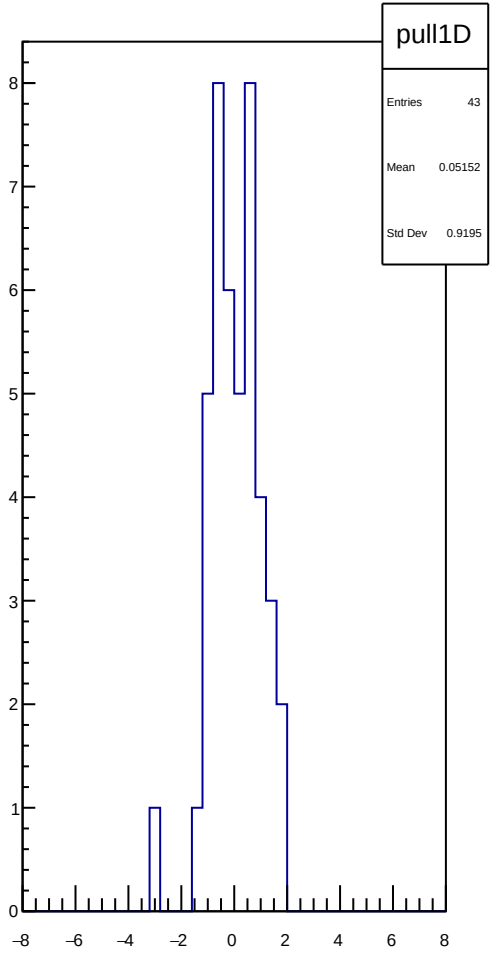

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 55.08 / 42
p0 −31.41 ± 0.219
pull
Entries 43
Mean 413.6
Std Dev 0

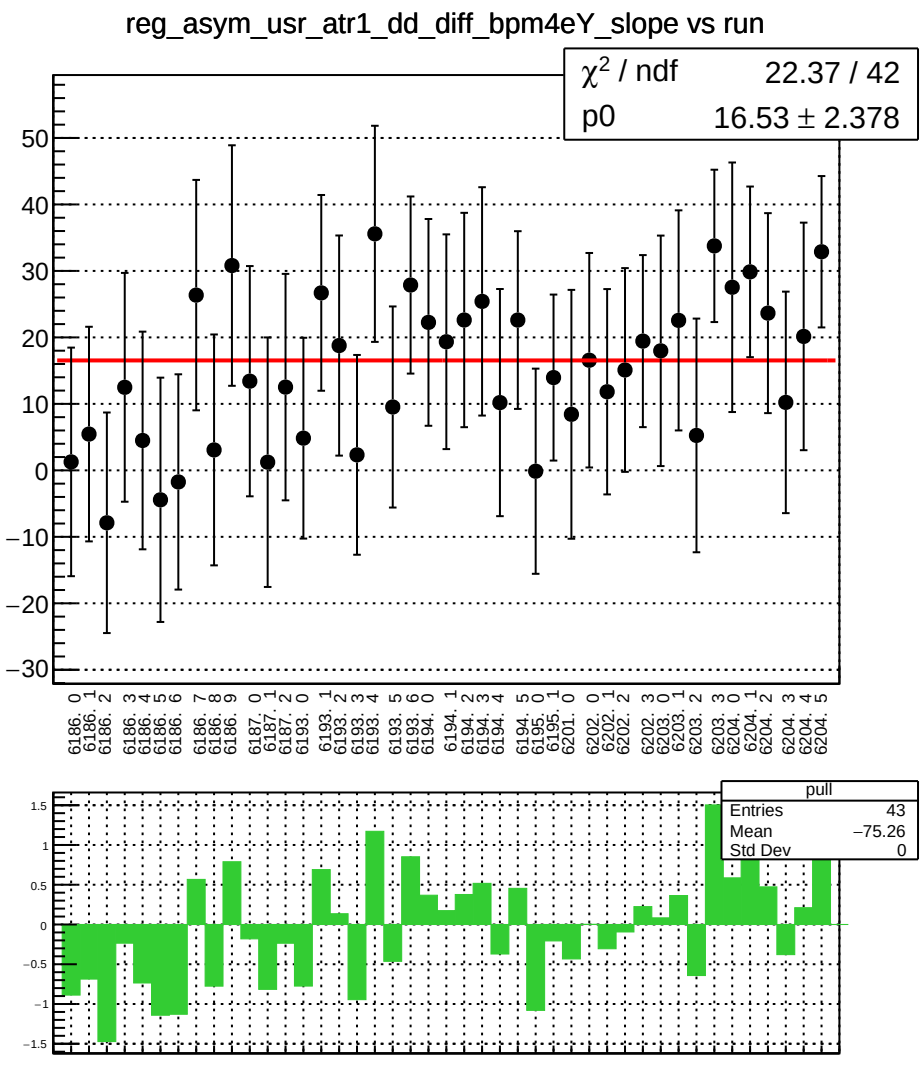

pull1D
Entries 43
Mean 0.01089
Std Dev 1.132

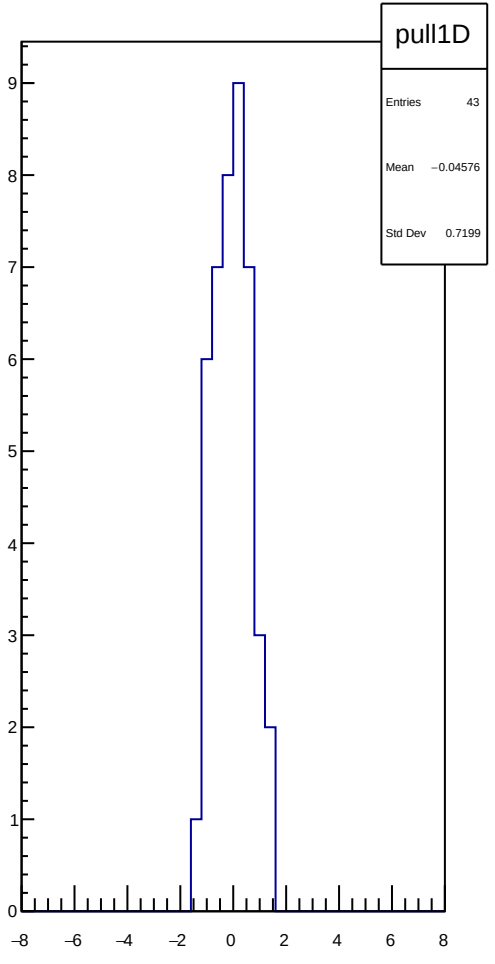

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 38.22 / 42
p0 −7.503 ± 2.259
pull
Entries 43
Mean −54.81
Std Dev 0
pull1D
Entries 43
Mean −0.05209
Std Dev 0.9413

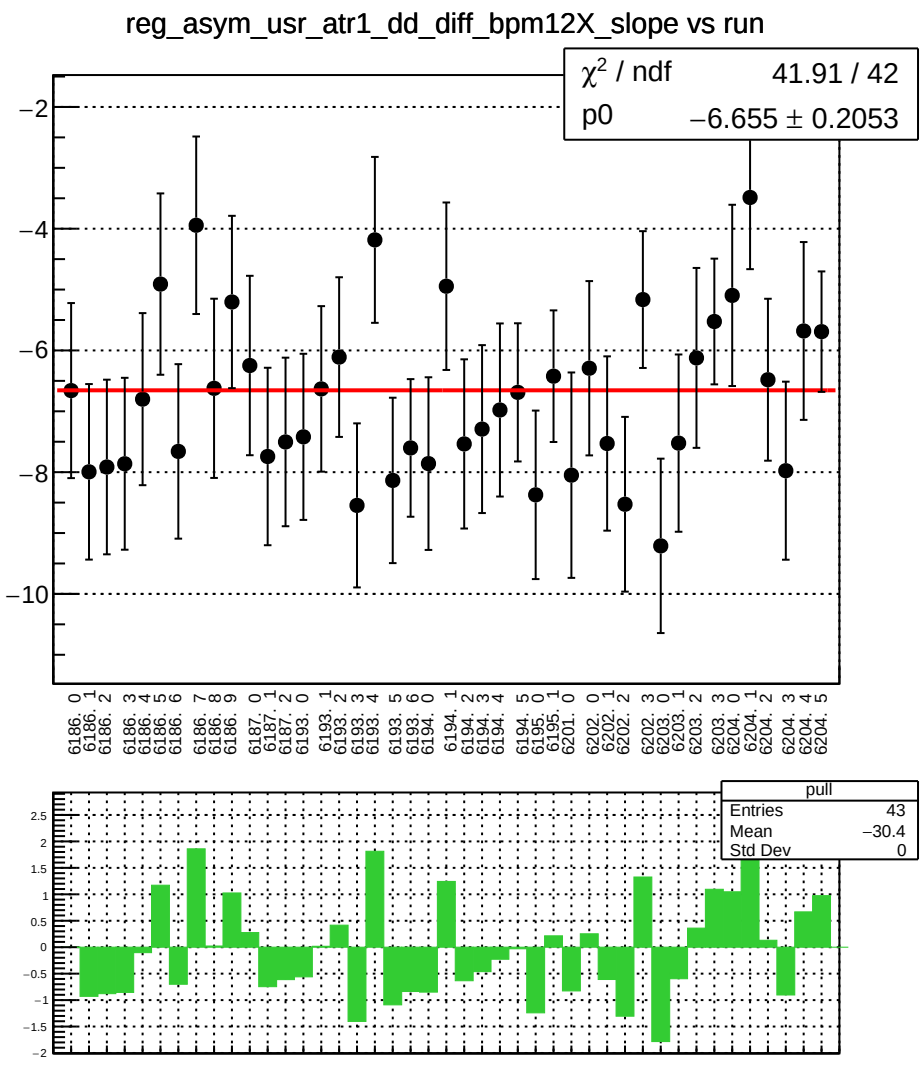

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.4 / 42
p0 −3.445 ± 2.114
pull
Entries 43
Mean −82.72
Std Dev 0
pull1D
Entries 43
Mean 0.04006
Std Dev 0.6876

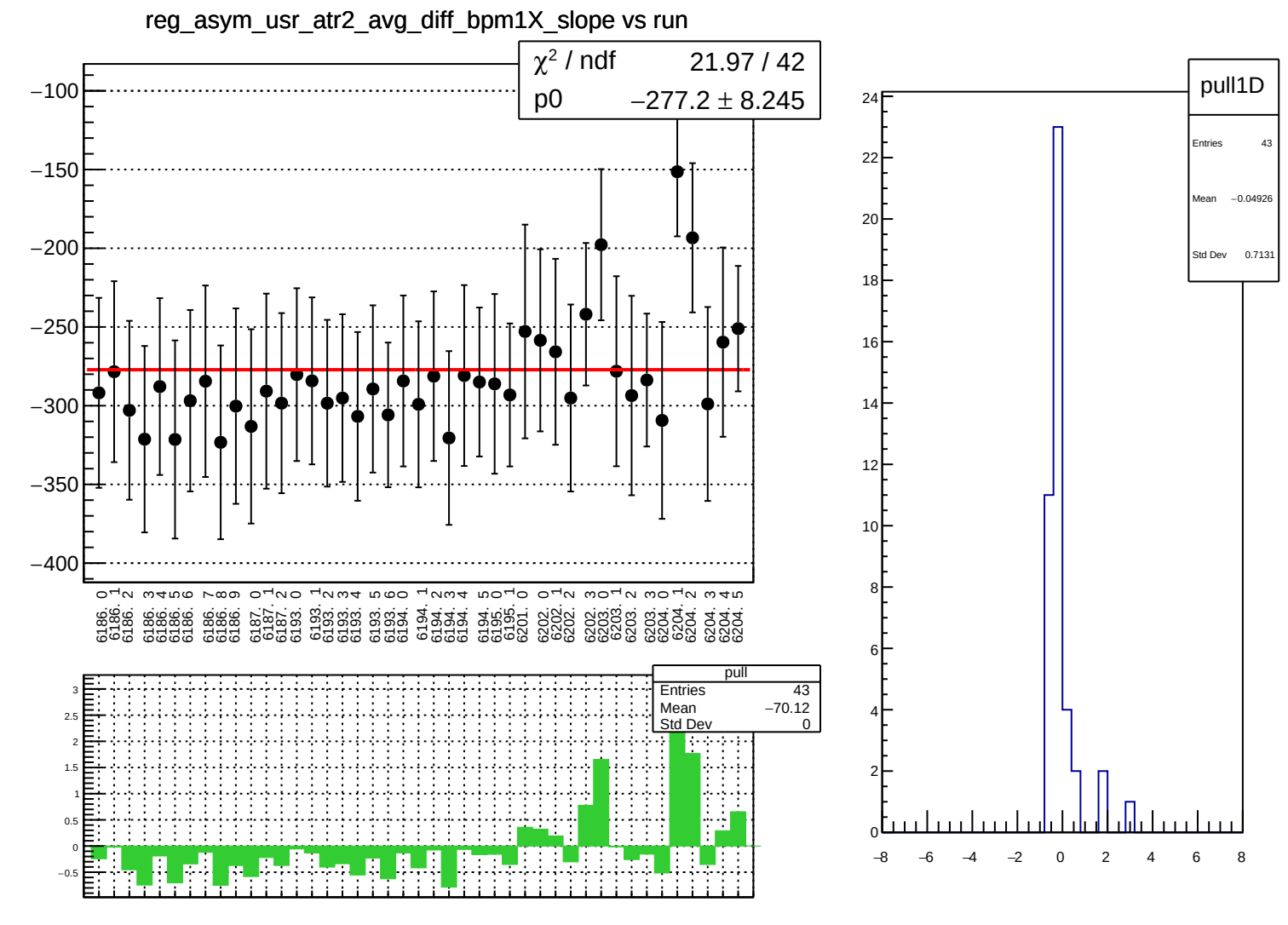

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.47 / 42
p0 68.71 ± 2.466
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −55.93
Std Dev 0
2
1
0
−1
−2
−3

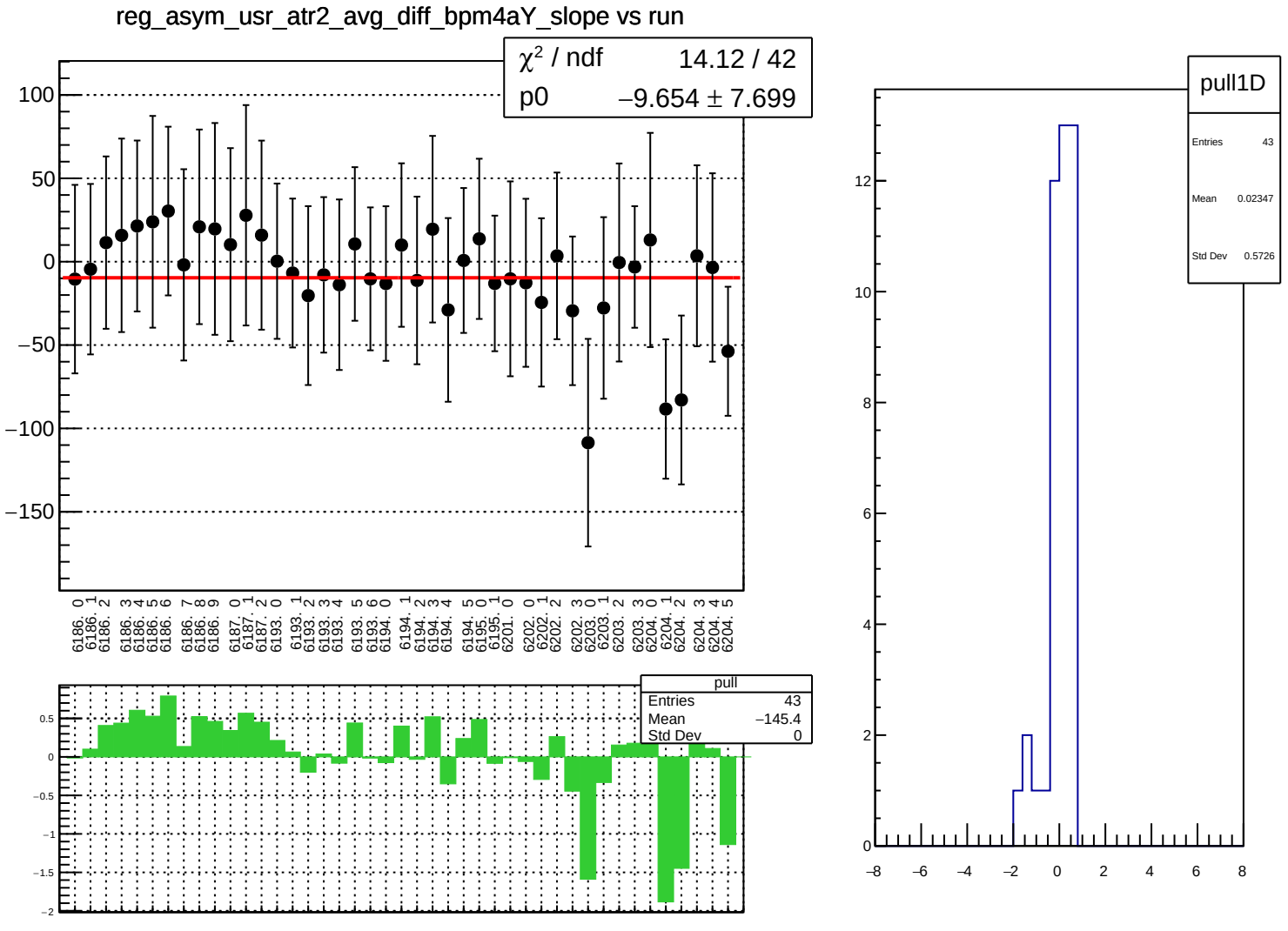

pull1D
Entries 43
Mean 0.05152
Std Dev 0.9195
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

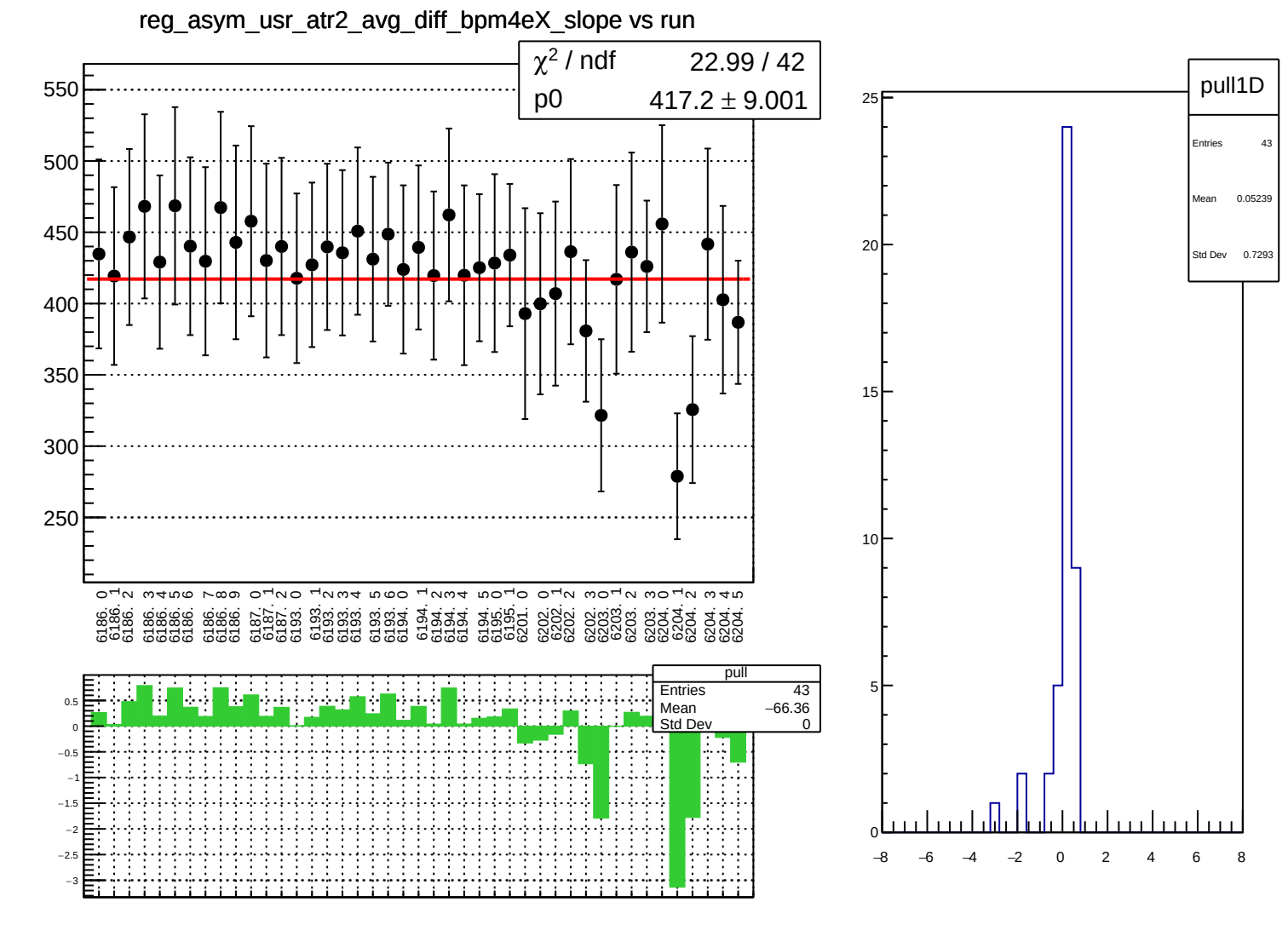

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.37 / 42
p0 16.53 ± 2.378
pull
Entries 43
Mean −75.26
Std Dev 0

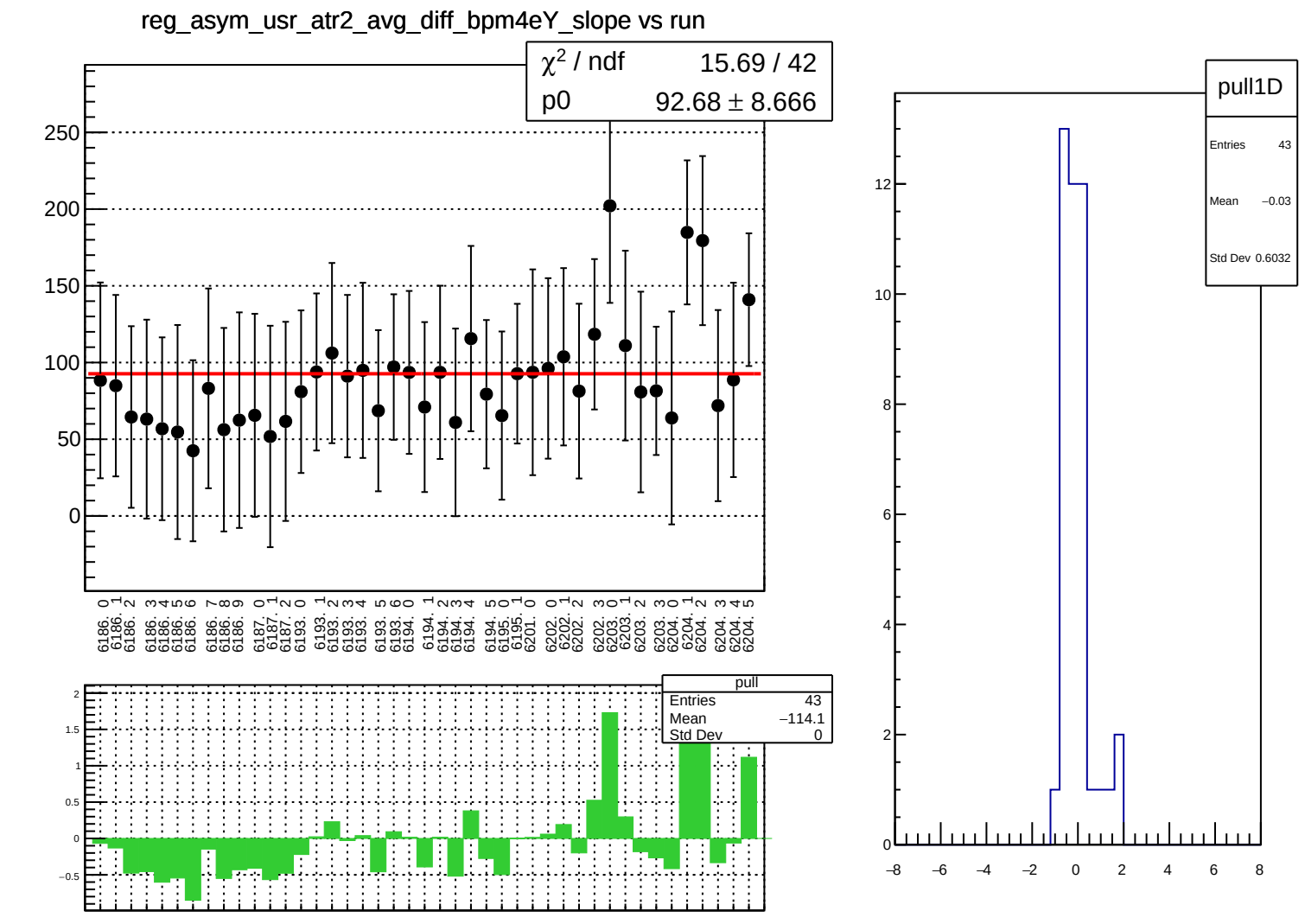

pull1D
Entries 43
Mean −0.04576
Std Dev 0.7199

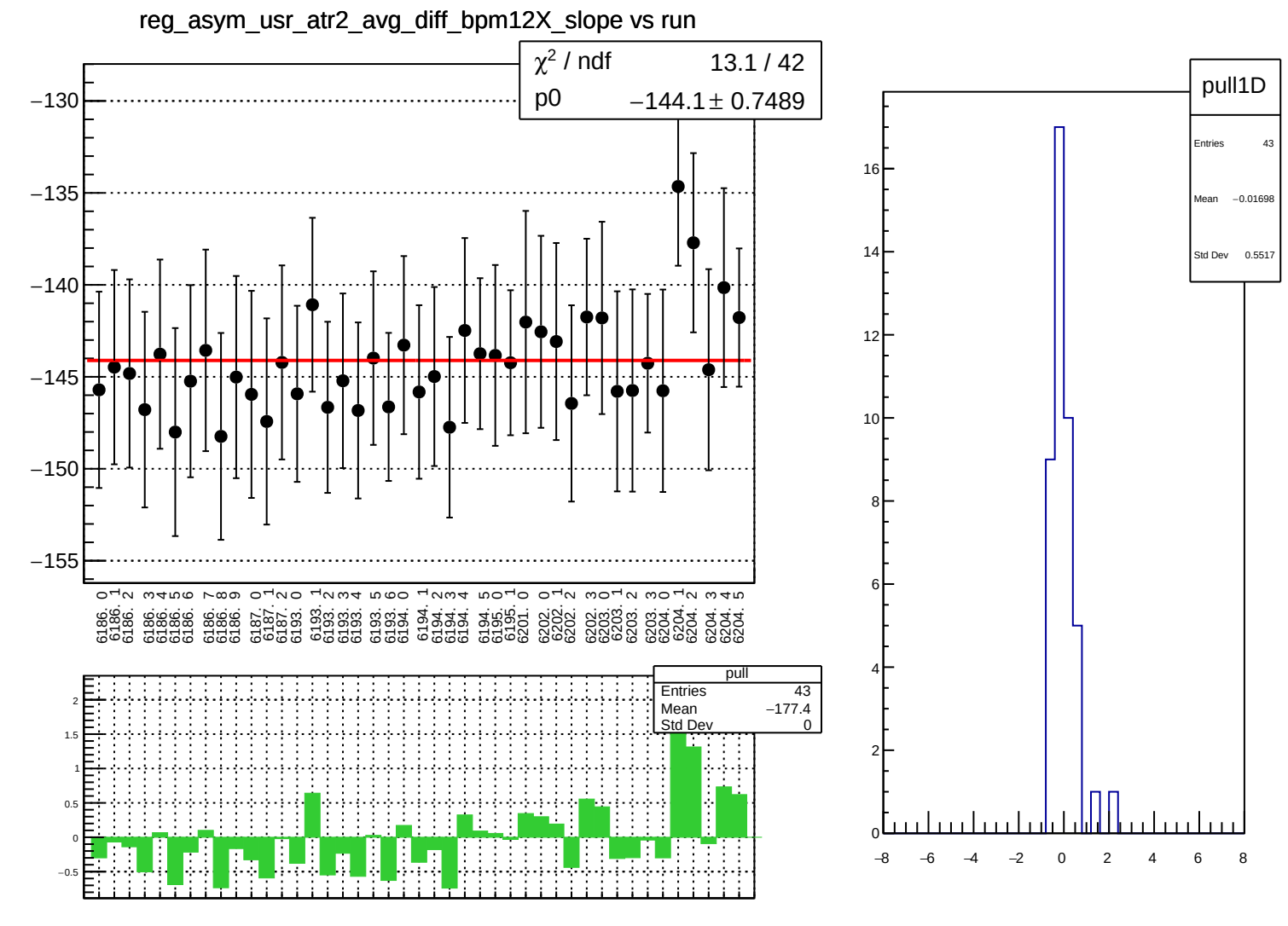

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 41.91 / 42
p0 −6.655 ± 0.2053
−2
−4
−6
−8
−10
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −30.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean −0.03665
Std Dev 0.9866
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

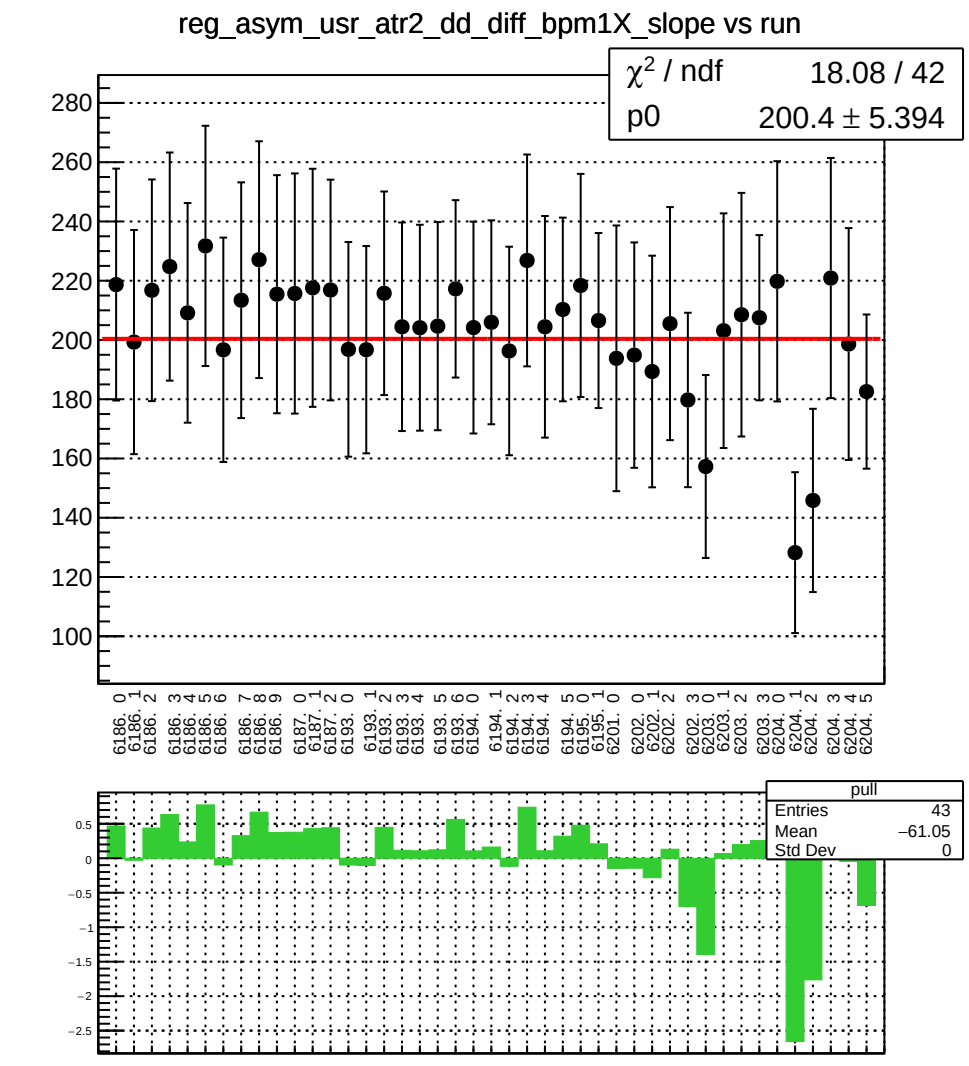

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 21.97 / 42
p0 −277.2 ± 8.245
pull
Entries 43
Mean −70.12
Std Dev 0
pull1D
Entries 43
Mean −0.04926
Std Dev 0.7131

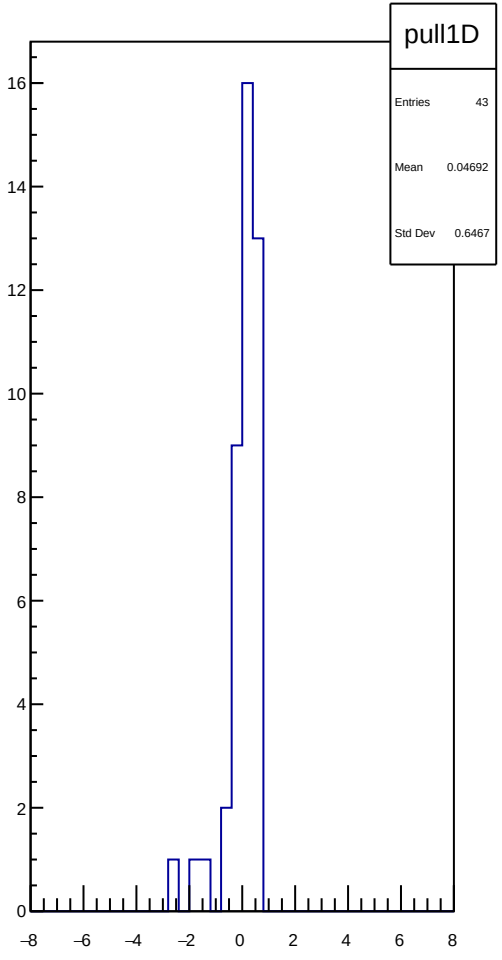

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.12 / 42
p0 −9.654 ± 7.699
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −145.4
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02347
Std Dev 0.5726
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

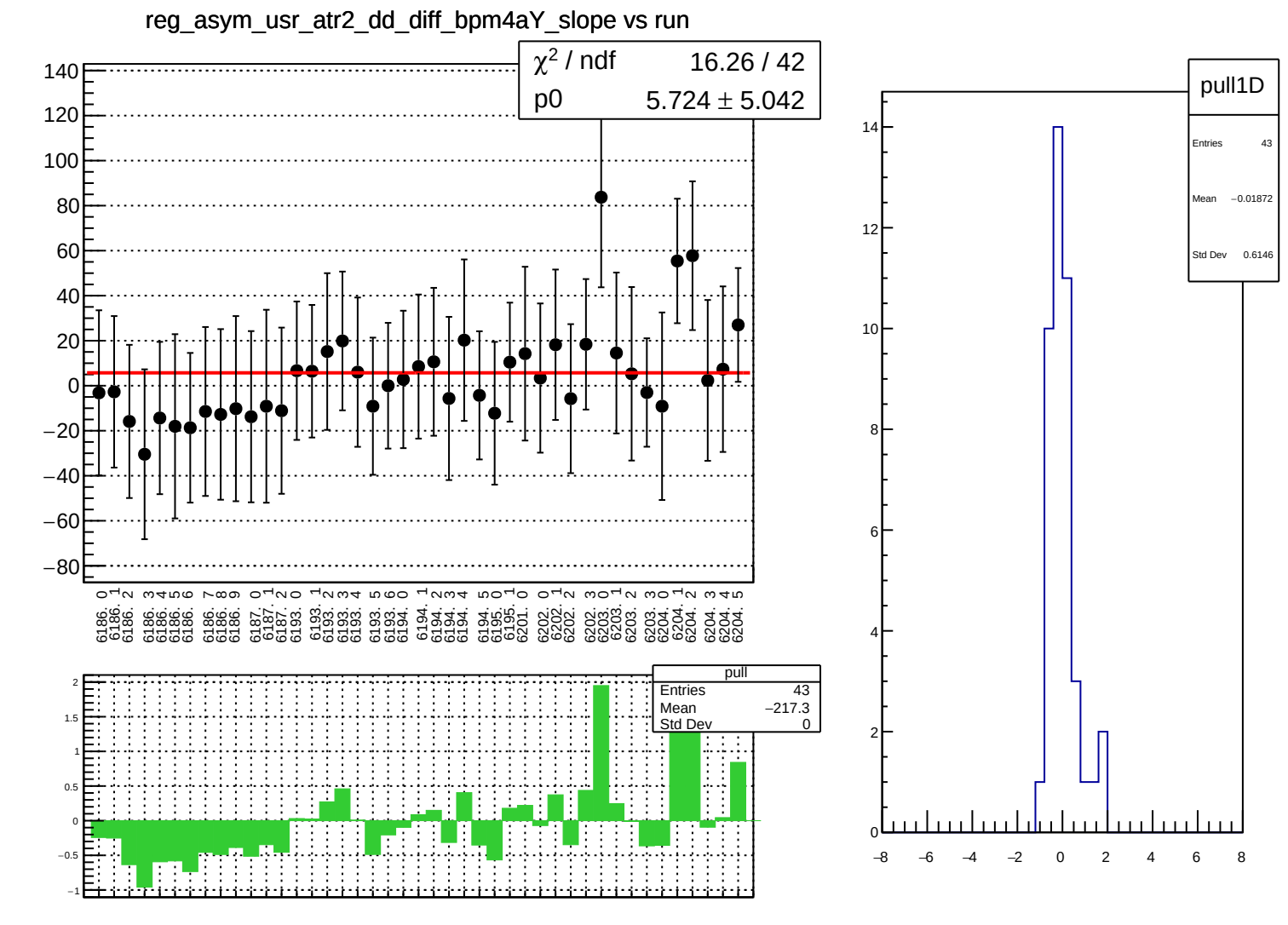

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.99 / 42
p0 417.2 ± 9.001
550
500
450
400
350
300
250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −66.36
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 43
Mean 0.05239
Std Dev 0.7293
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

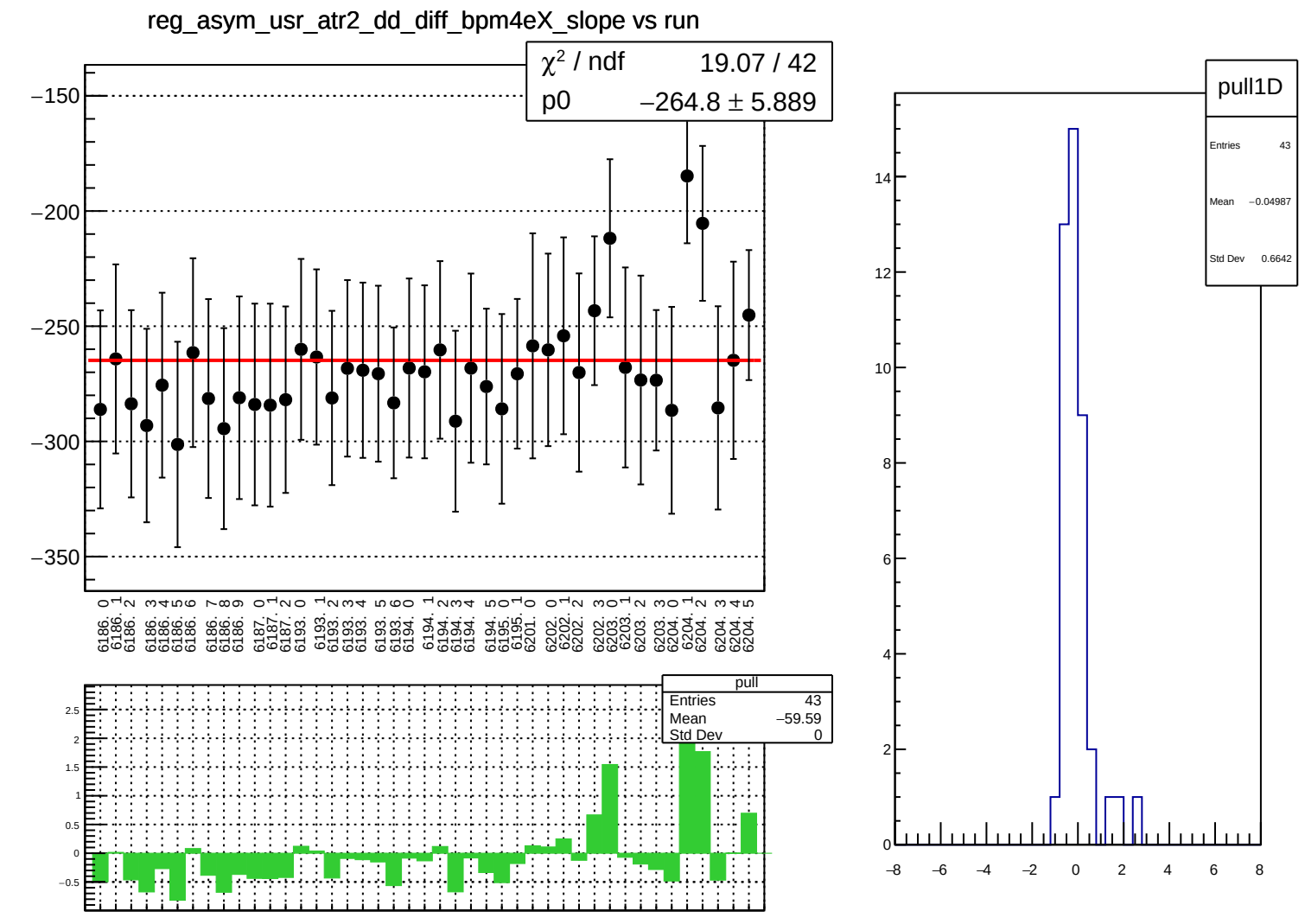

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.69 / 42
p0 92.68 ± 8.666
250
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −114.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.03
Std Dev 0.6032
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

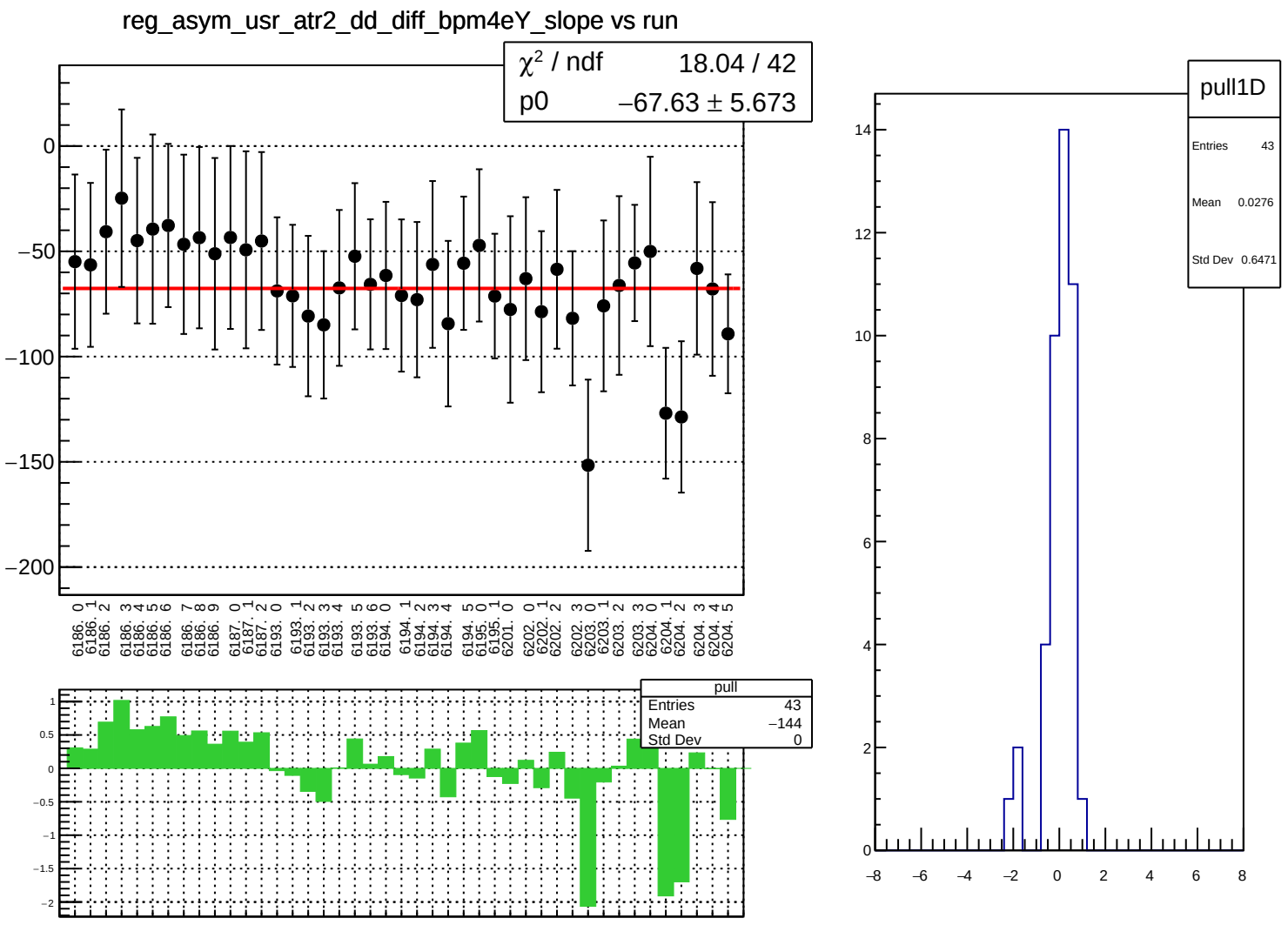

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 13.1 / 42
p0 −144.1 ± 0.7489
−130
−135
−140
−145
−150
−155
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −177.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.01698
Std Dev 0.5517
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

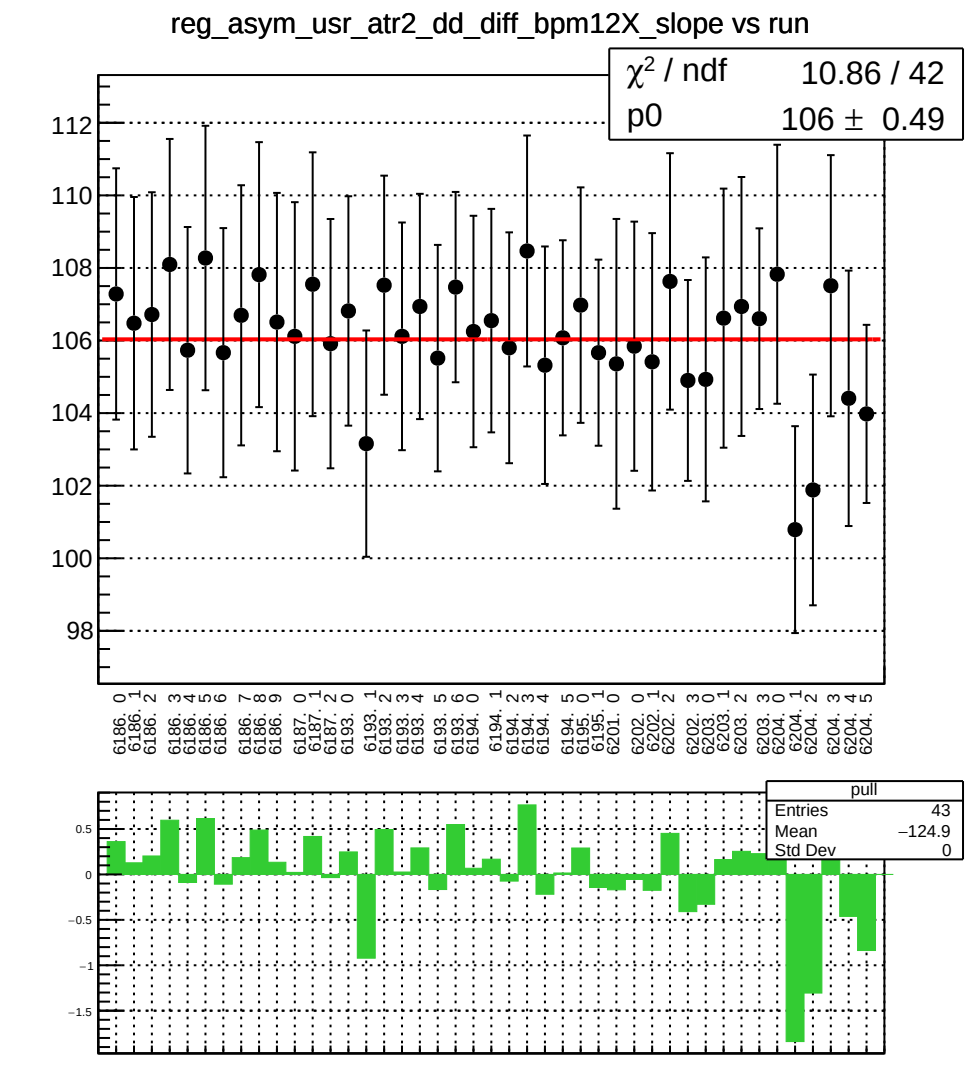

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 18.08 / 42
p0 200.4 ± 5.394
pull
Entries 43
Mean −61.05
Std Dev 0

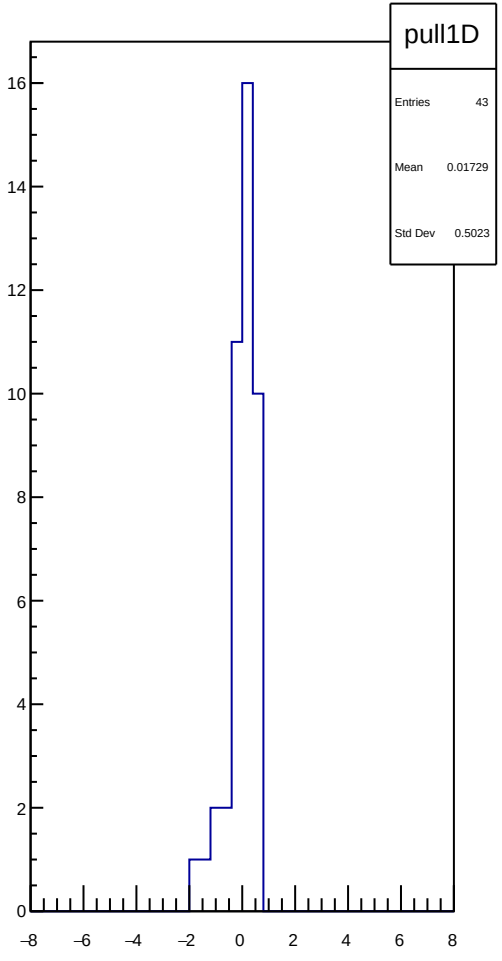

pull1D
Entries 43
Mean 0.04692
Std Dev 0.6467

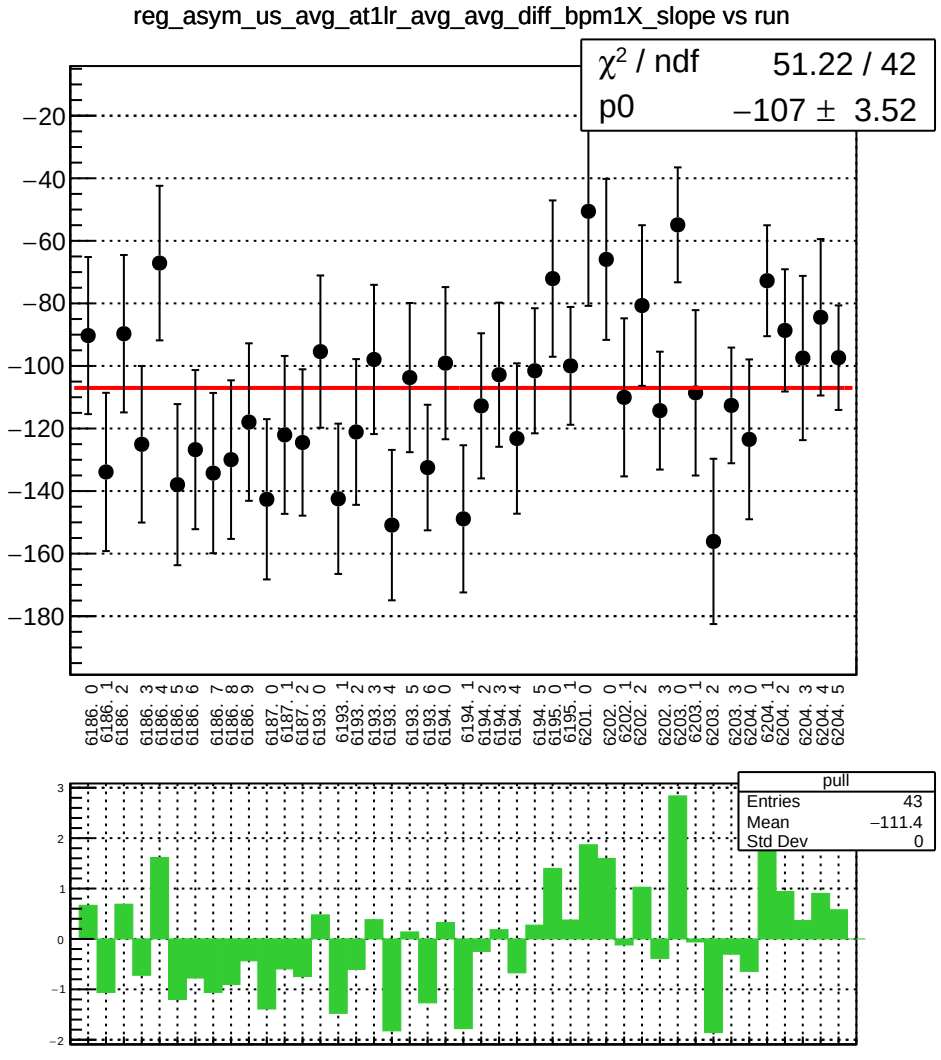

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.26 / 42
p0 5.724 ± 5.042
pull
Entries 43
Mean −217.3
Std Dev 0
pull1D
Entries 43
Mean −0.01872
Std Dev 0.6146

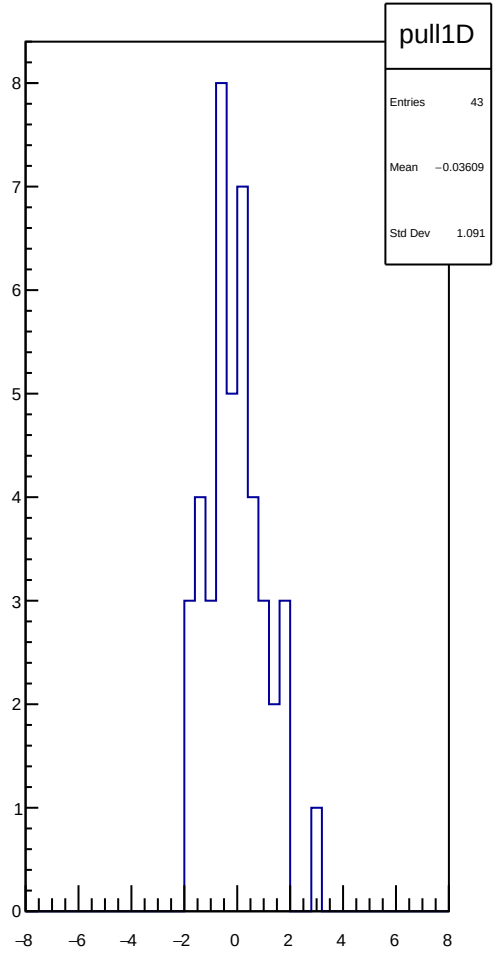

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.07 / 42
p0 −264.8 ± 5.889
−150
−200
−250
−300
−350
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −59.59
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.04987
Std Dev 0.6642
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

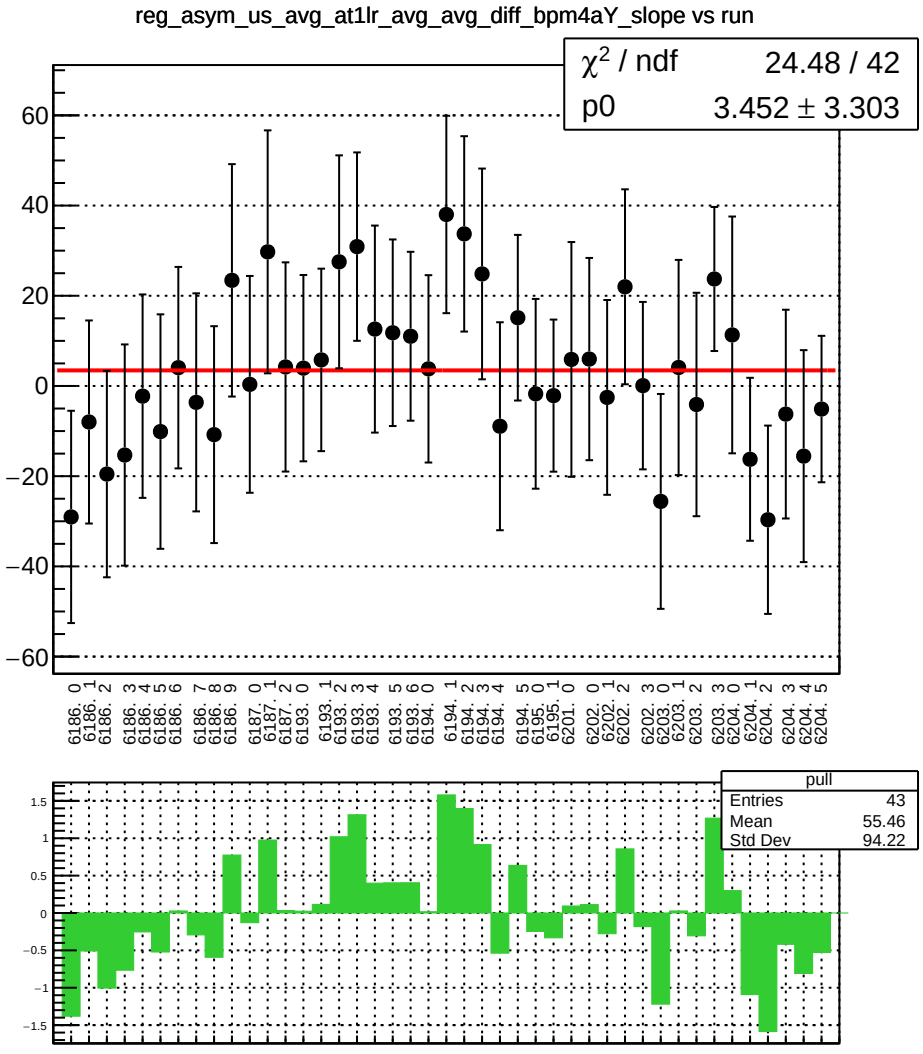

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.04 / 42
p0 −67.63 ± 5.673
0
−50
−100
−150
−200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −144
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.0276
Std Dev 0.6471
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

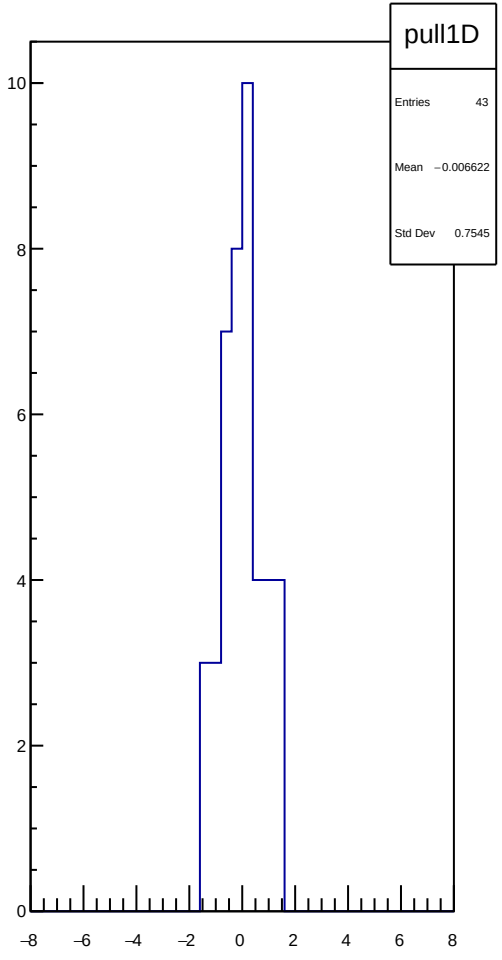

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 10.86 / 42
p0 106 ± 0.49
pull
Entries 43
Mean −124.9
Std Dev 0

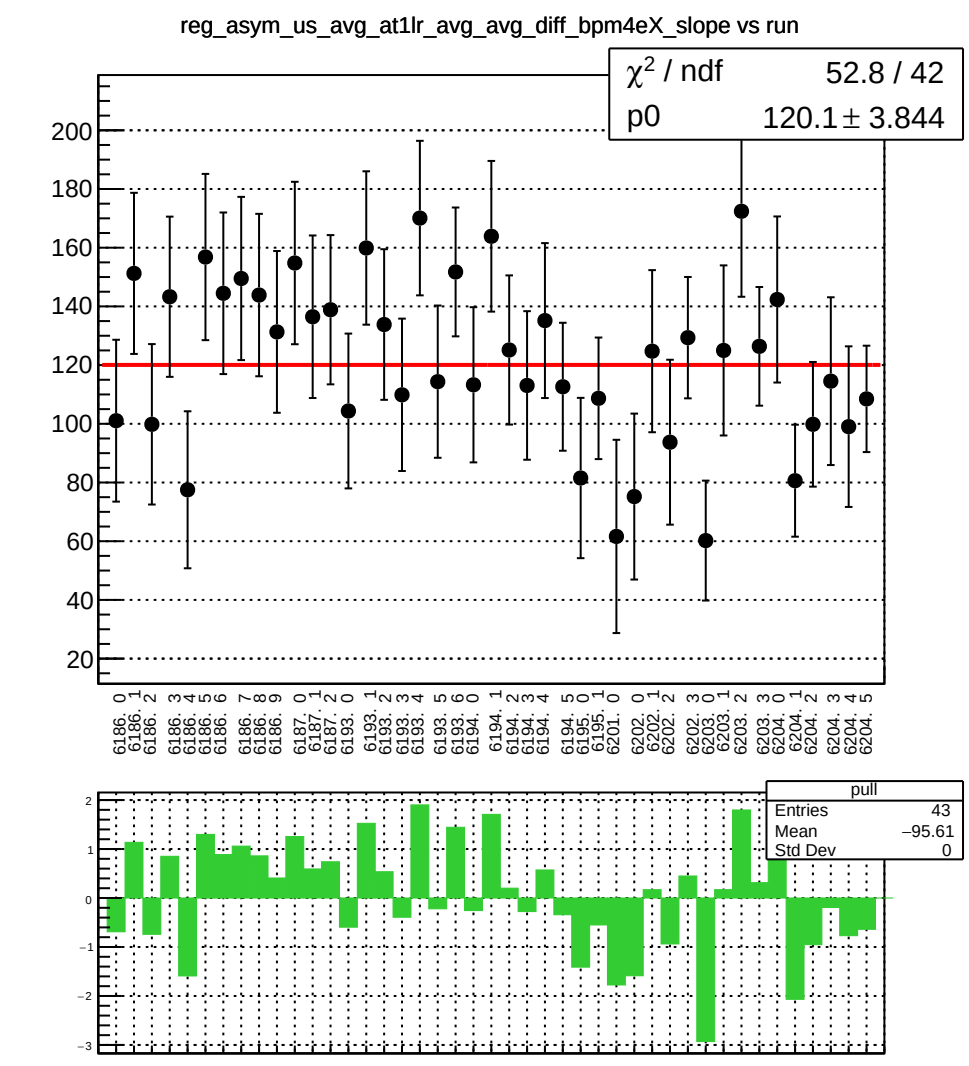

pull1D
Entries 43
Mean 0.01729
Std Dev 0.5023

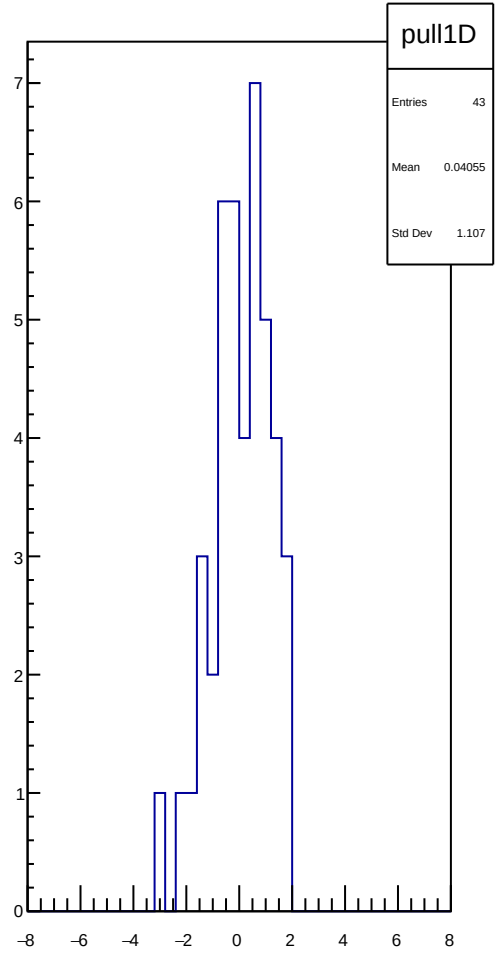

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 51.22 / 42
p0 −107 ± 3.52
pull
Entries 43
Mean −111.4
Std Dev 0

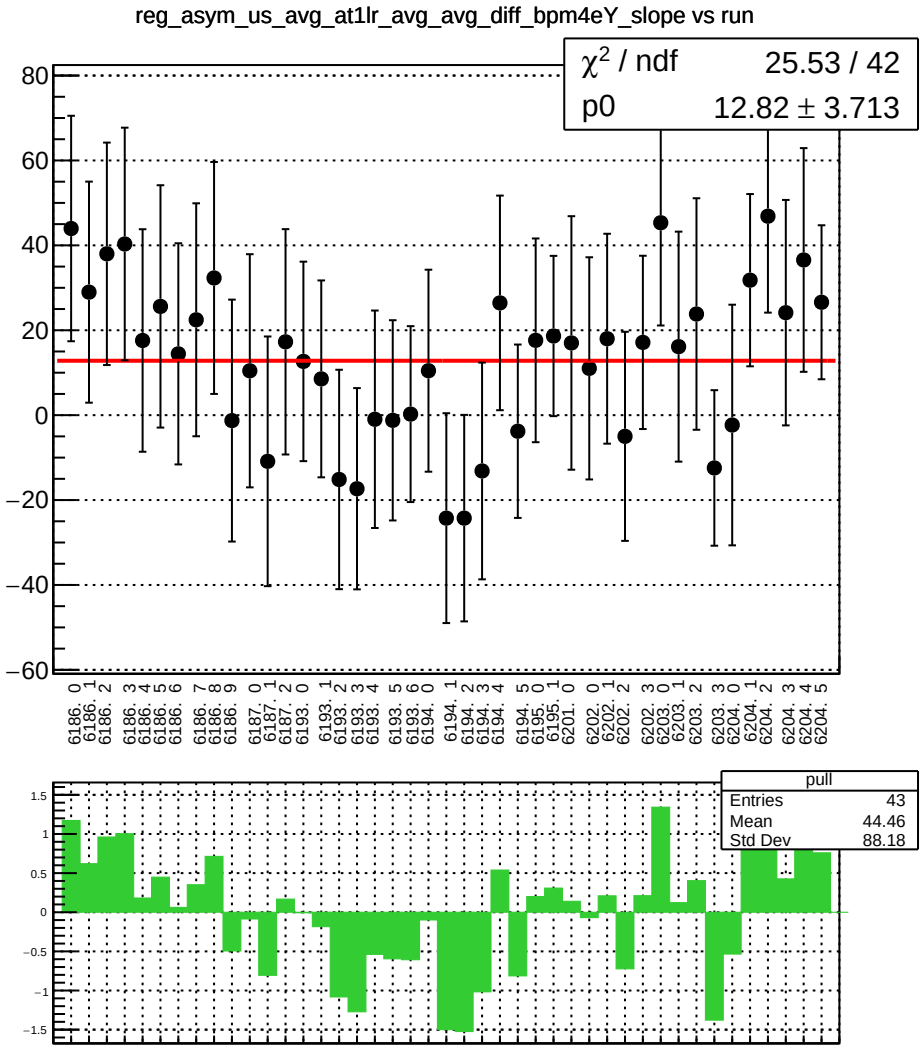

pull1D
Entries 43
Mean −0.03609
Std Dev 1.091

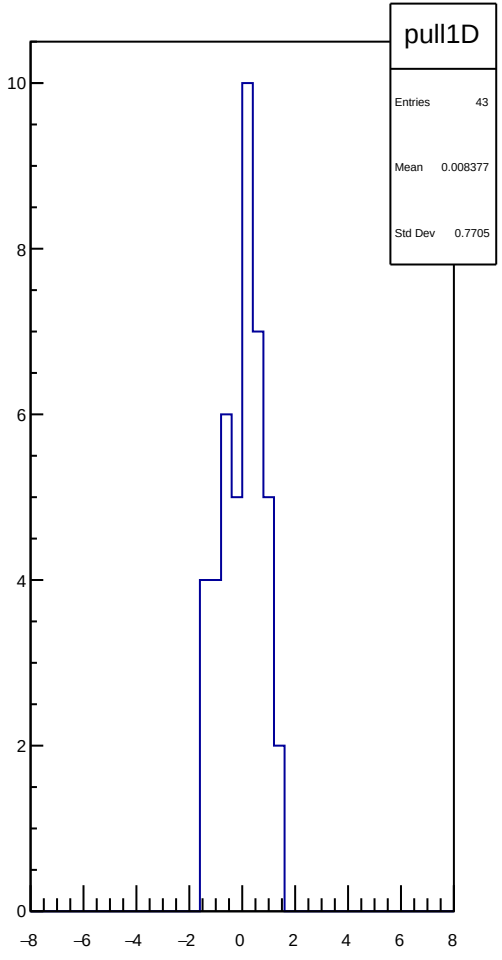

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.48 / 42
p0 3.452 ± 3.303
pull
Entries 43
Mean 55.46
Std Dev 94.22

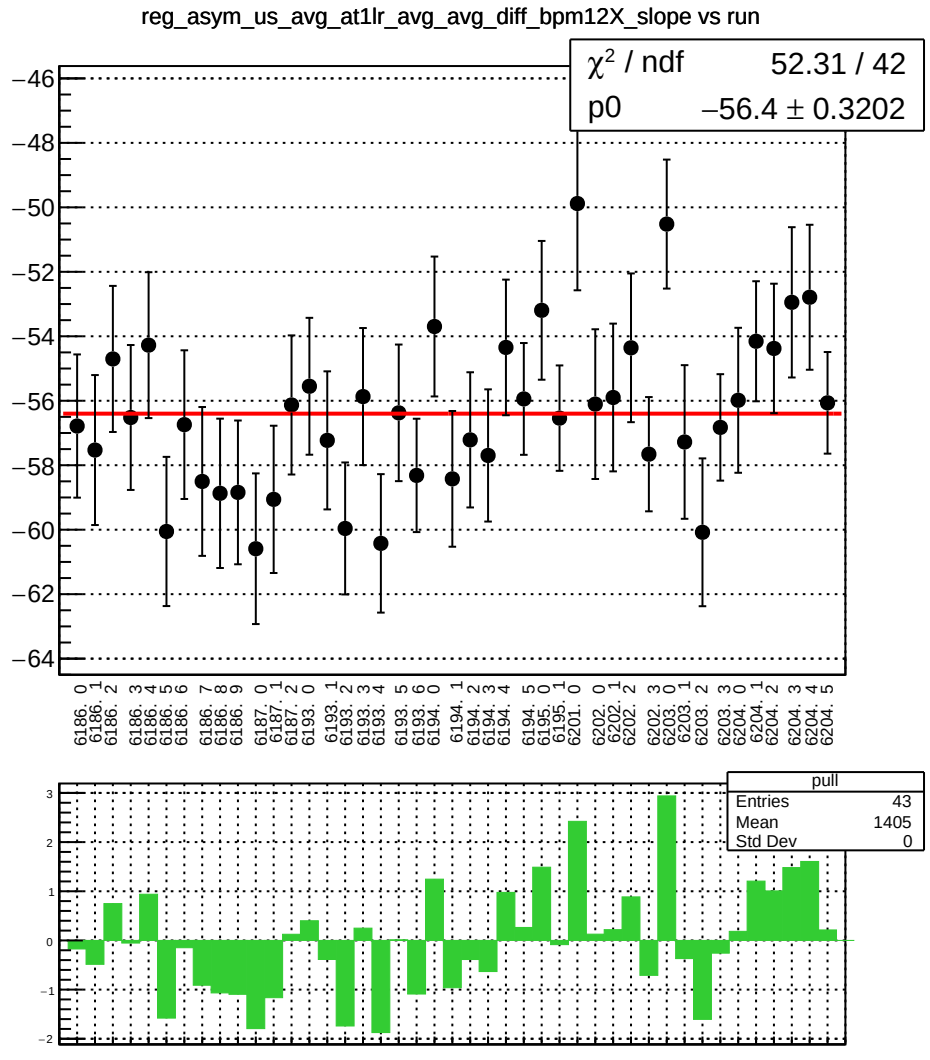

pull1D
Entries 43
Mean −0.006622
Std Dev 0.7545

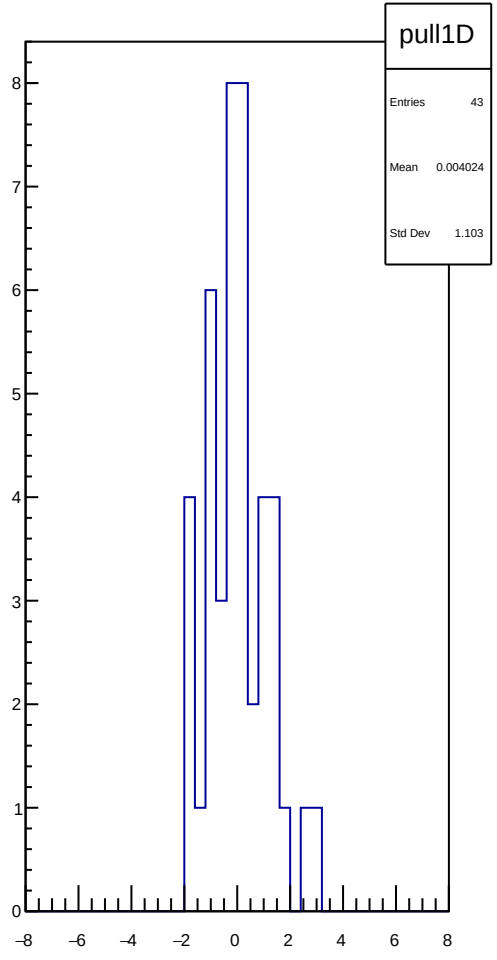

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.8 / 42
p0 120.1 ± 3.844
pull
Entries 43
Mean −95.61
Std Dev 0

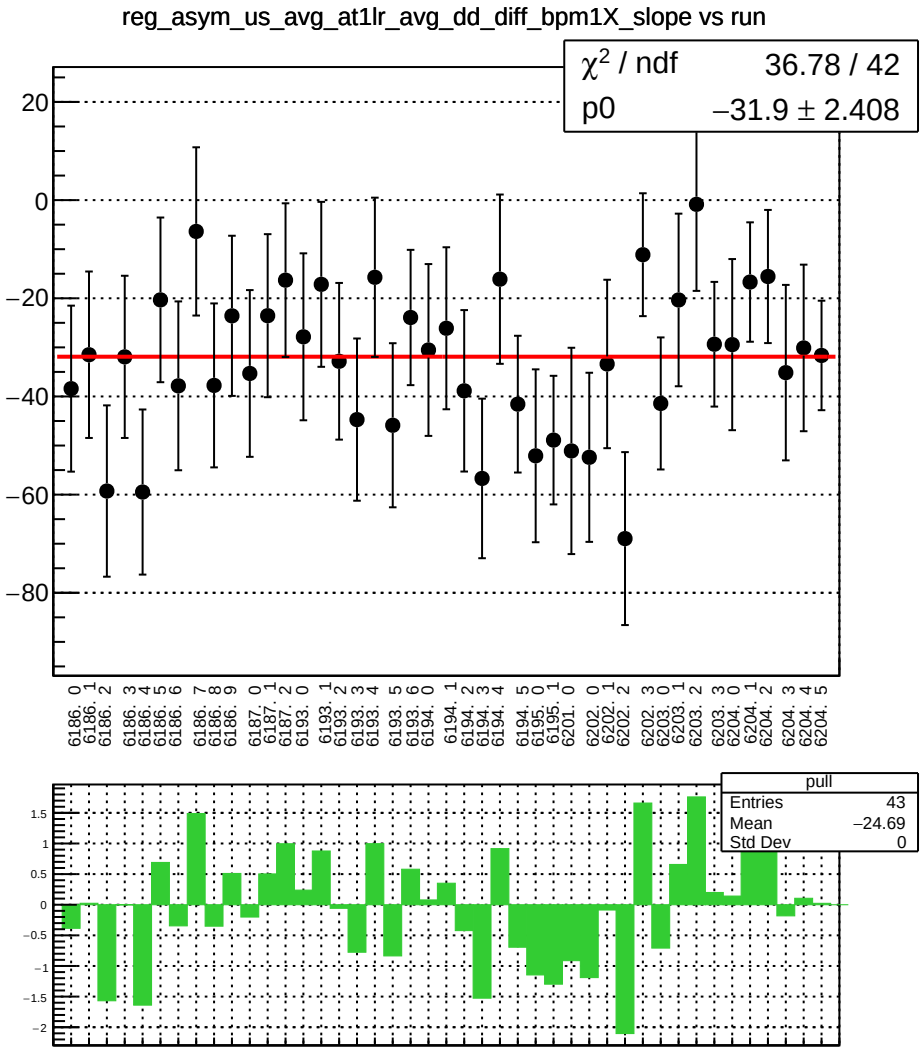

pull1D
Entries 43
Mean 0.04055
Std Dev 1.107

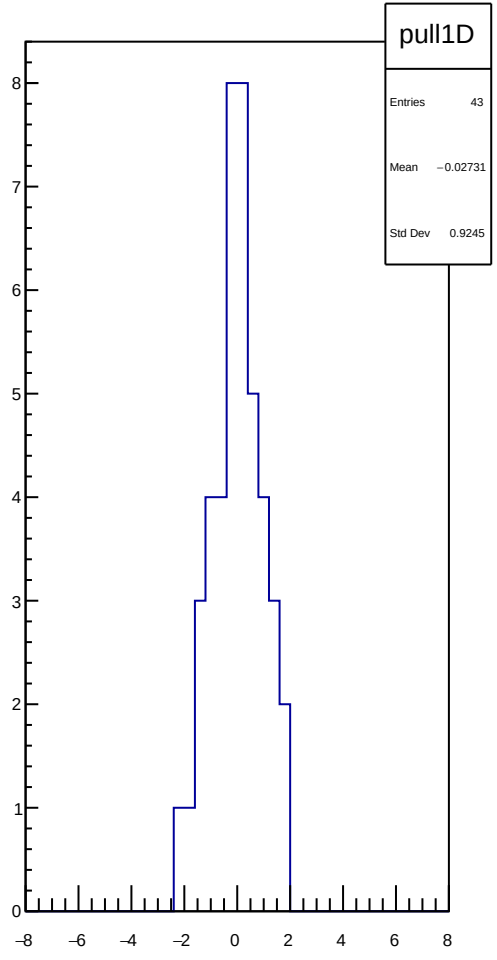

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.53 / 42
p0 12.82 ± 3.713
pull
Entries 43
Mean 44.46
Std Dev 88.18

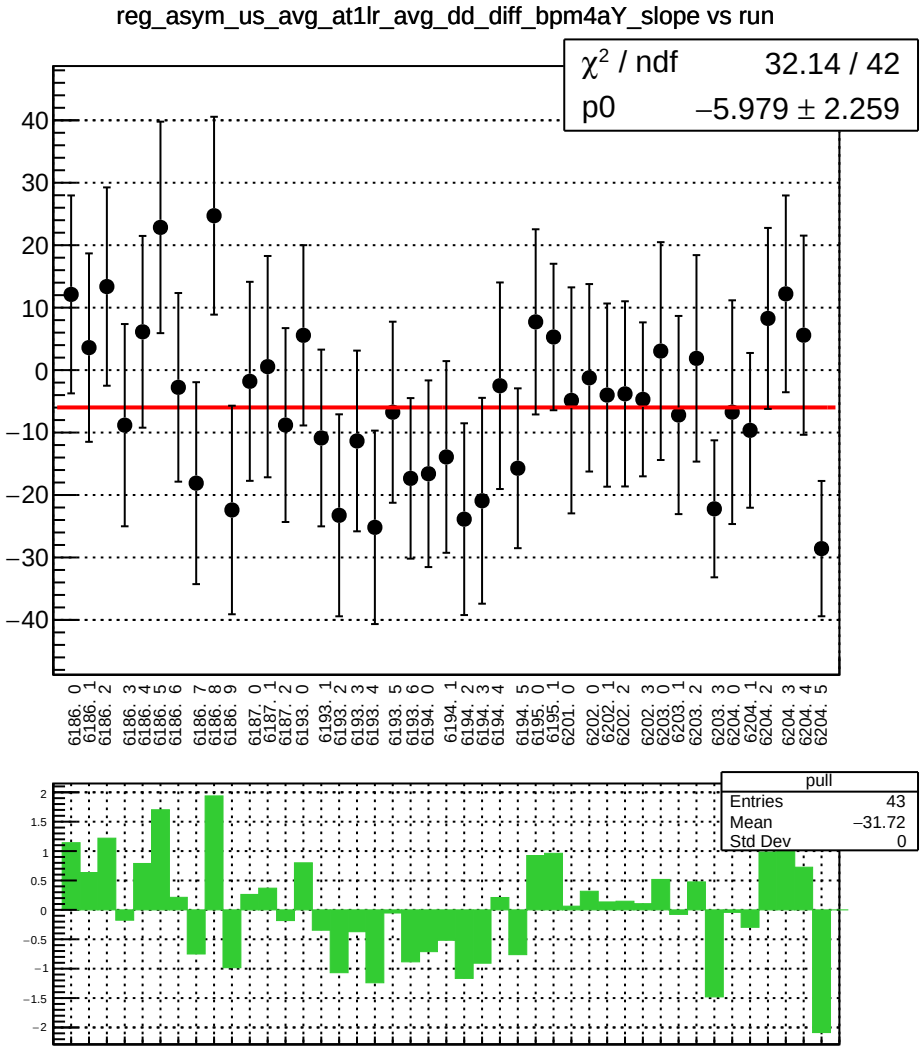

pull1D
Entries 43
Mean 0.008377
Std Dev 0.7705

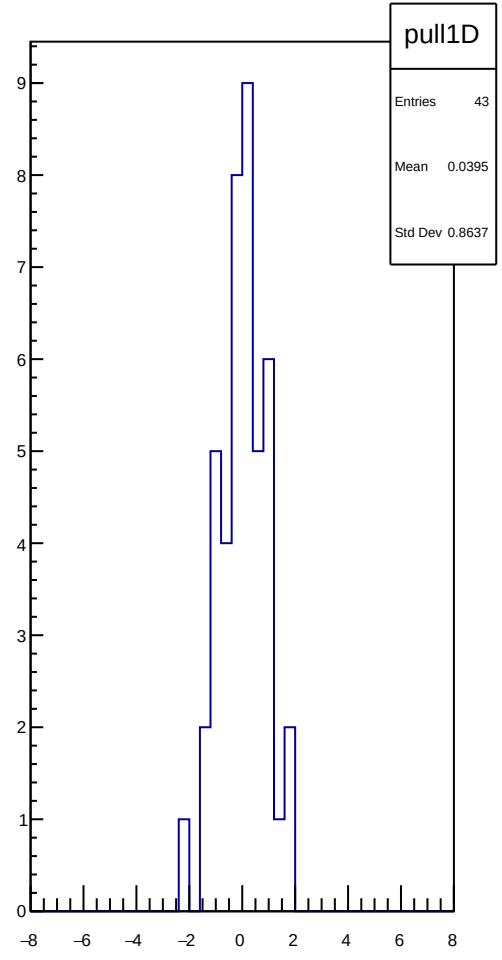

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 52.31 / 42
p0 −56.4 ± 0.3202
pull
Entries 43
Mean 1405
Std Dev 0

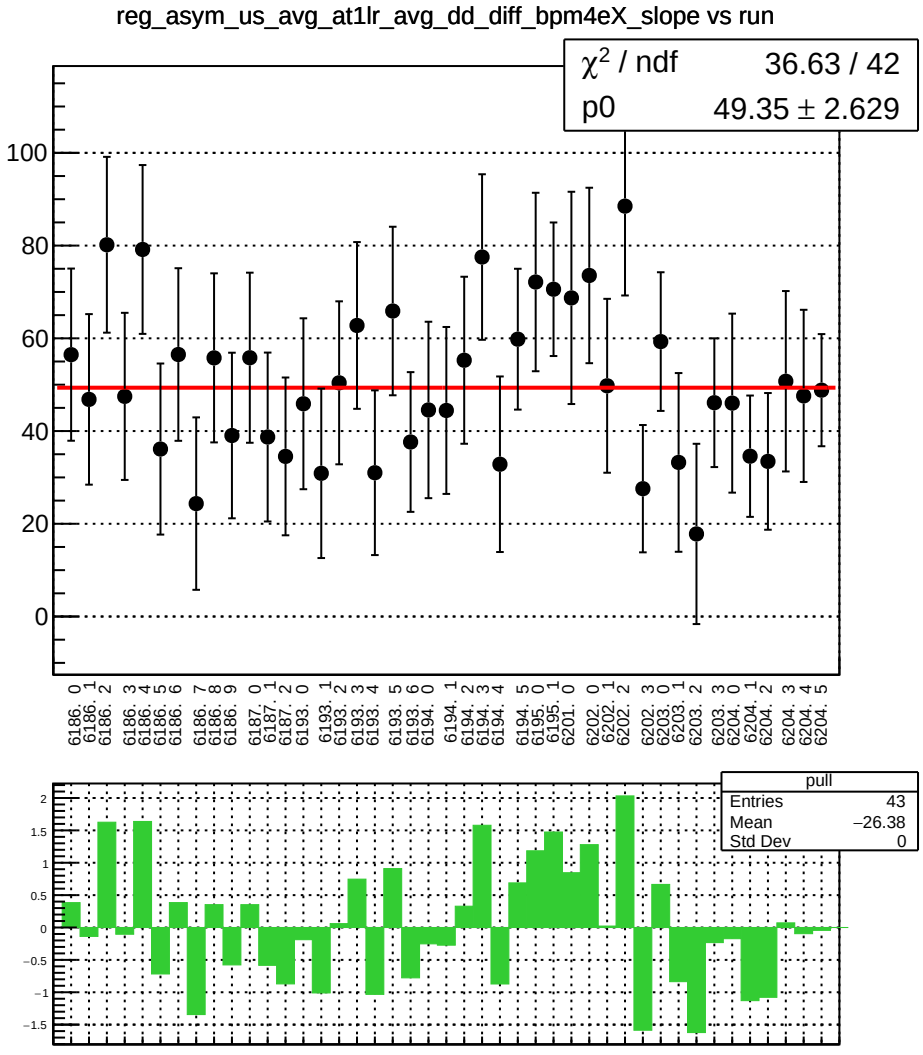

pull1D
Entries 43
Mean 0.004024
Std Dev 1.103

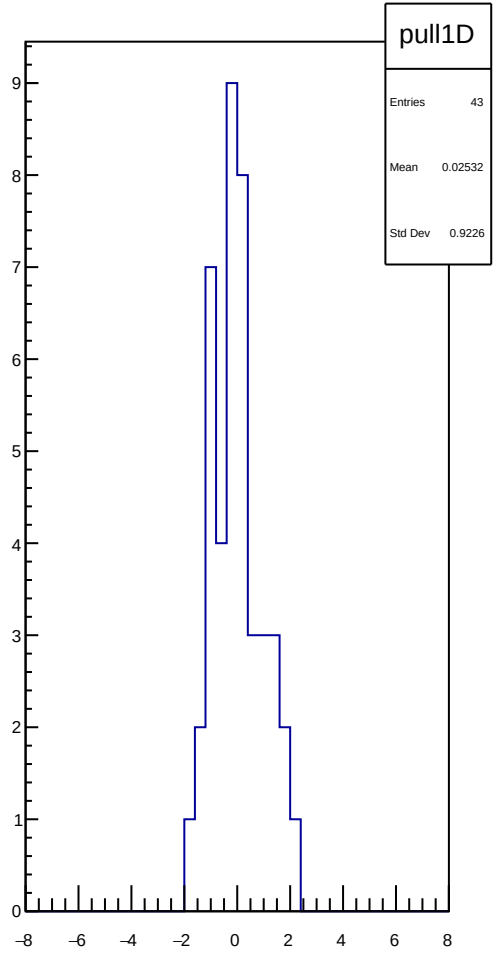

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 36.78 / 42
p0 −31.9 ± 2.408
pull
Entries 43
Mean −24.69
Std Dev 0

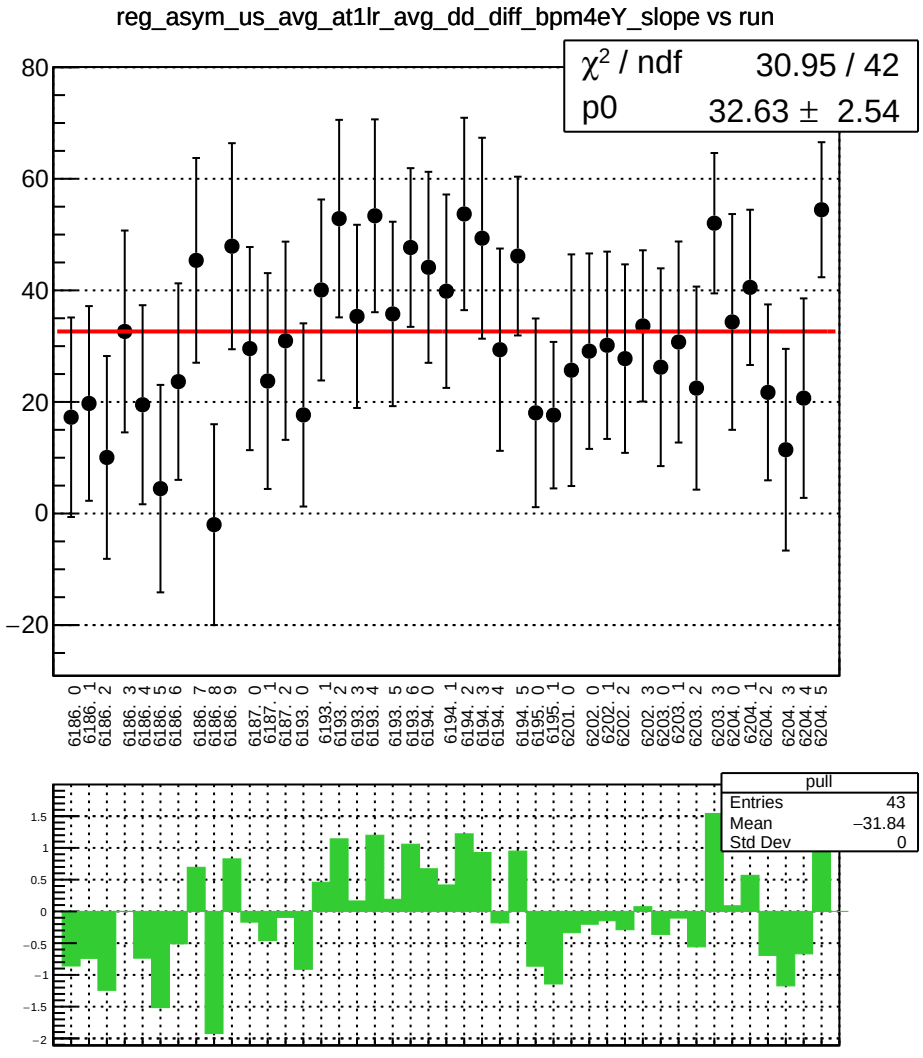

pull1D
Entries 43
Mean −0.02731
Std Dev 0.9245

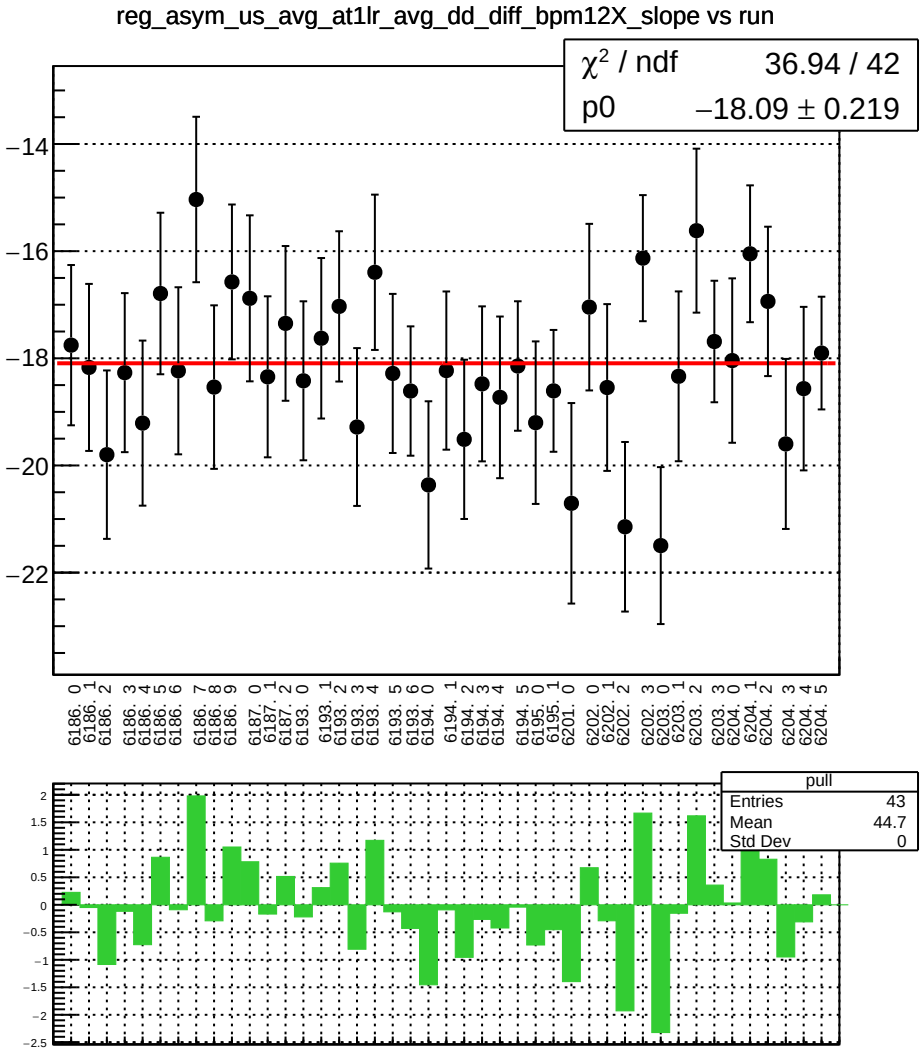

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.14 / 42
p0 −5.979 ± 2.259
pull
Entries 43
Mean −31.72
Std Dev 0

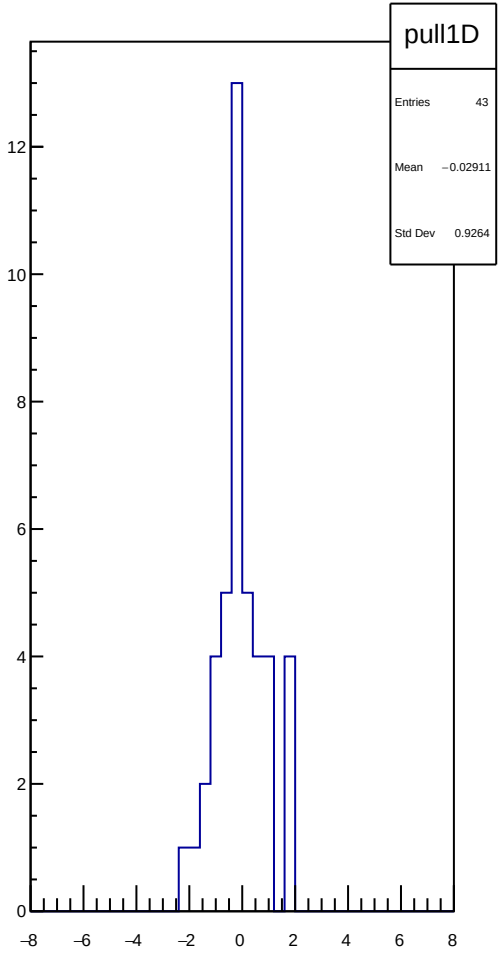

pull1D
Entries 43
Mean 0.0395
Std Dev 0.8637

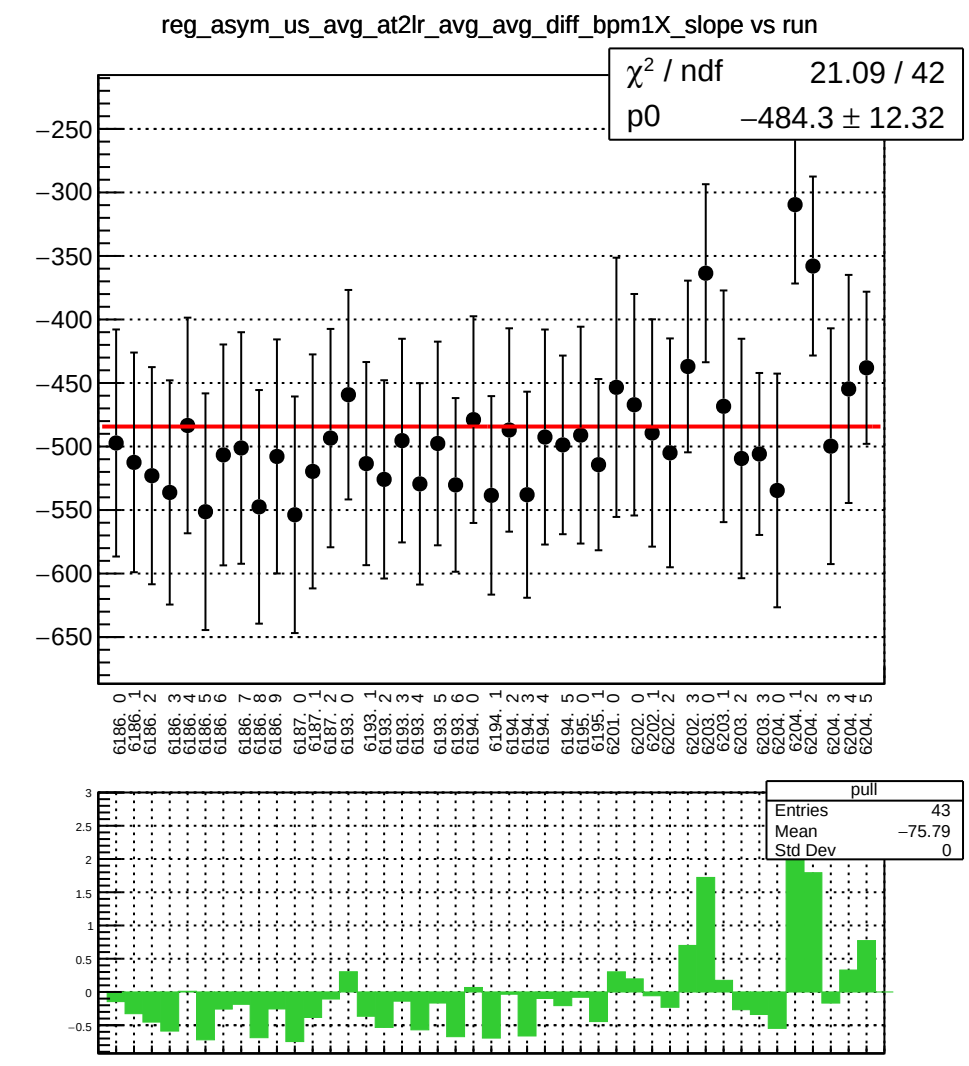

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.63 / 42
p0 49.35 ± 2.629
pull
Entries 43
Mean −26.38
Std Dev 0

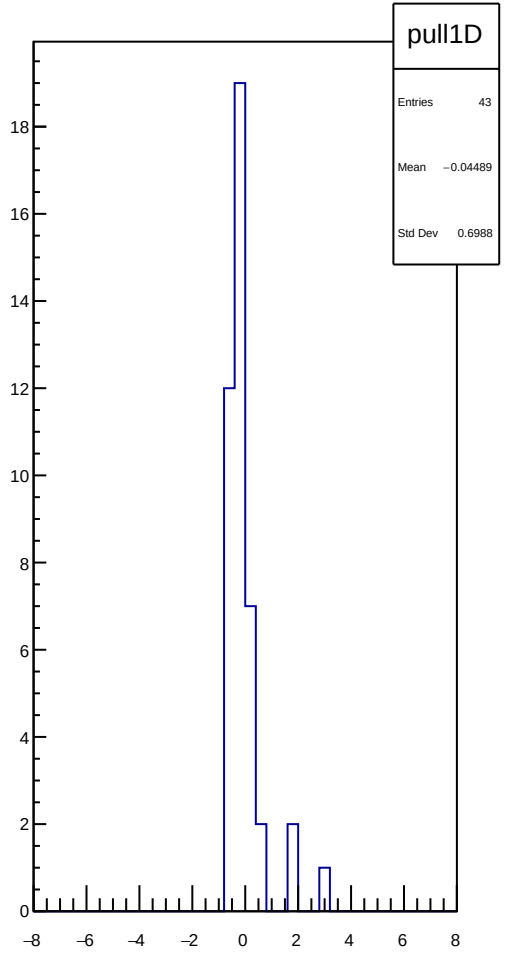

pull1D
Entries 43
Mean 0.02532
Std Dev 0.9226

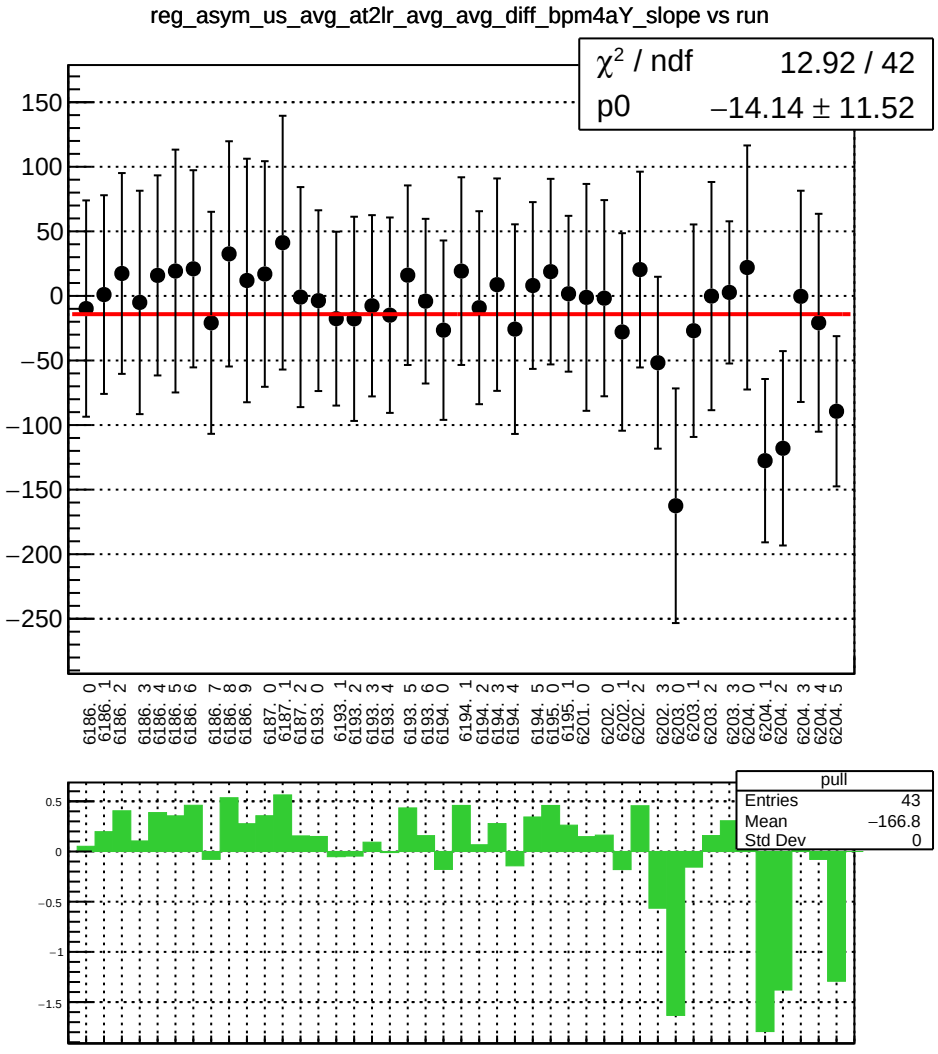

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.95 / 42
p0 32.63 ± 2.54
pull
Entries 43
Mean −31.84
Std Dev 0
pull1D
Entries 43
Mean −0.0436
Std Dev 0.8473

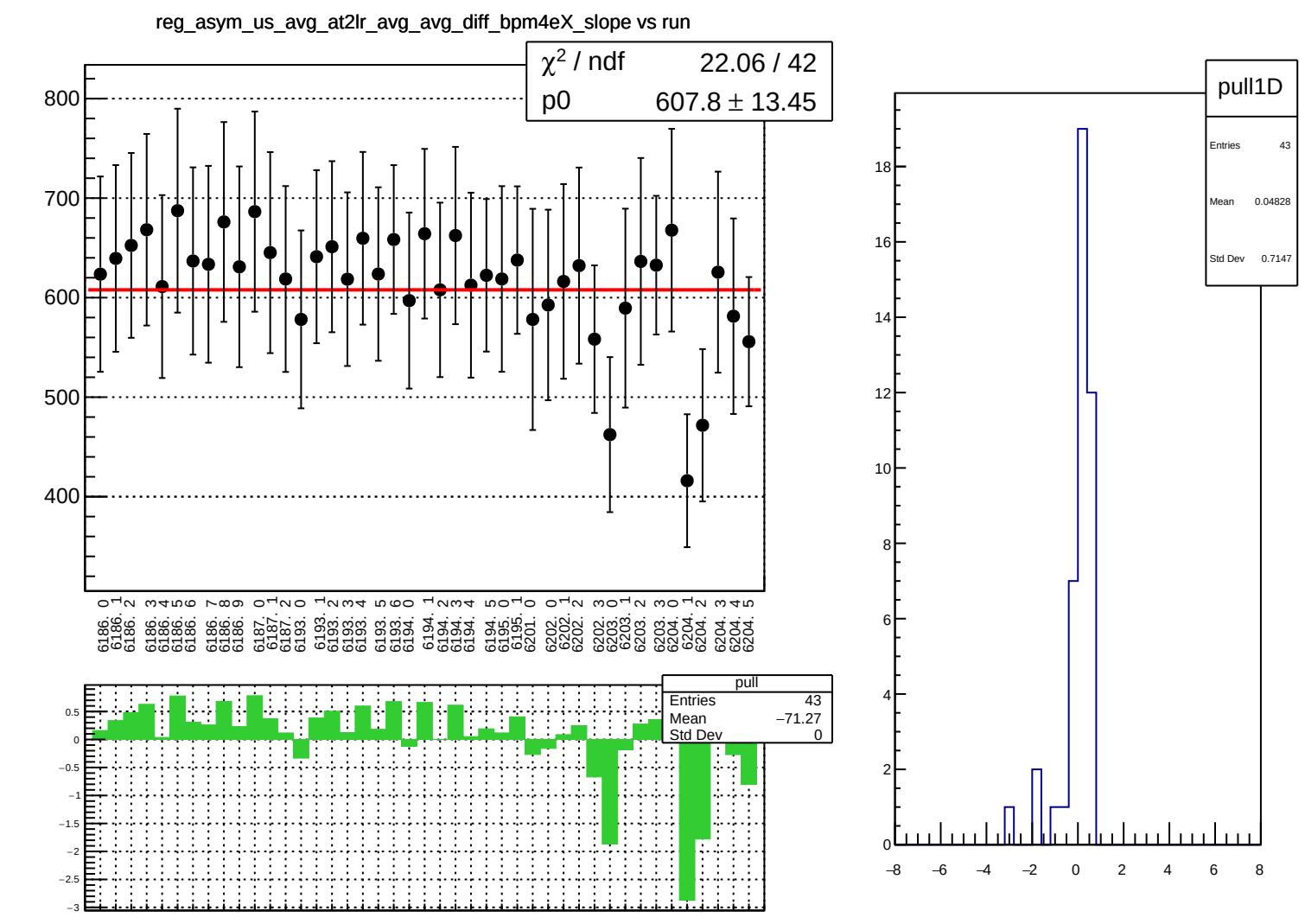

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 36.94 / 42
p0 −18.09 ± 0.219
pull
Entries 43
Mean 44.7
Std Dev 0

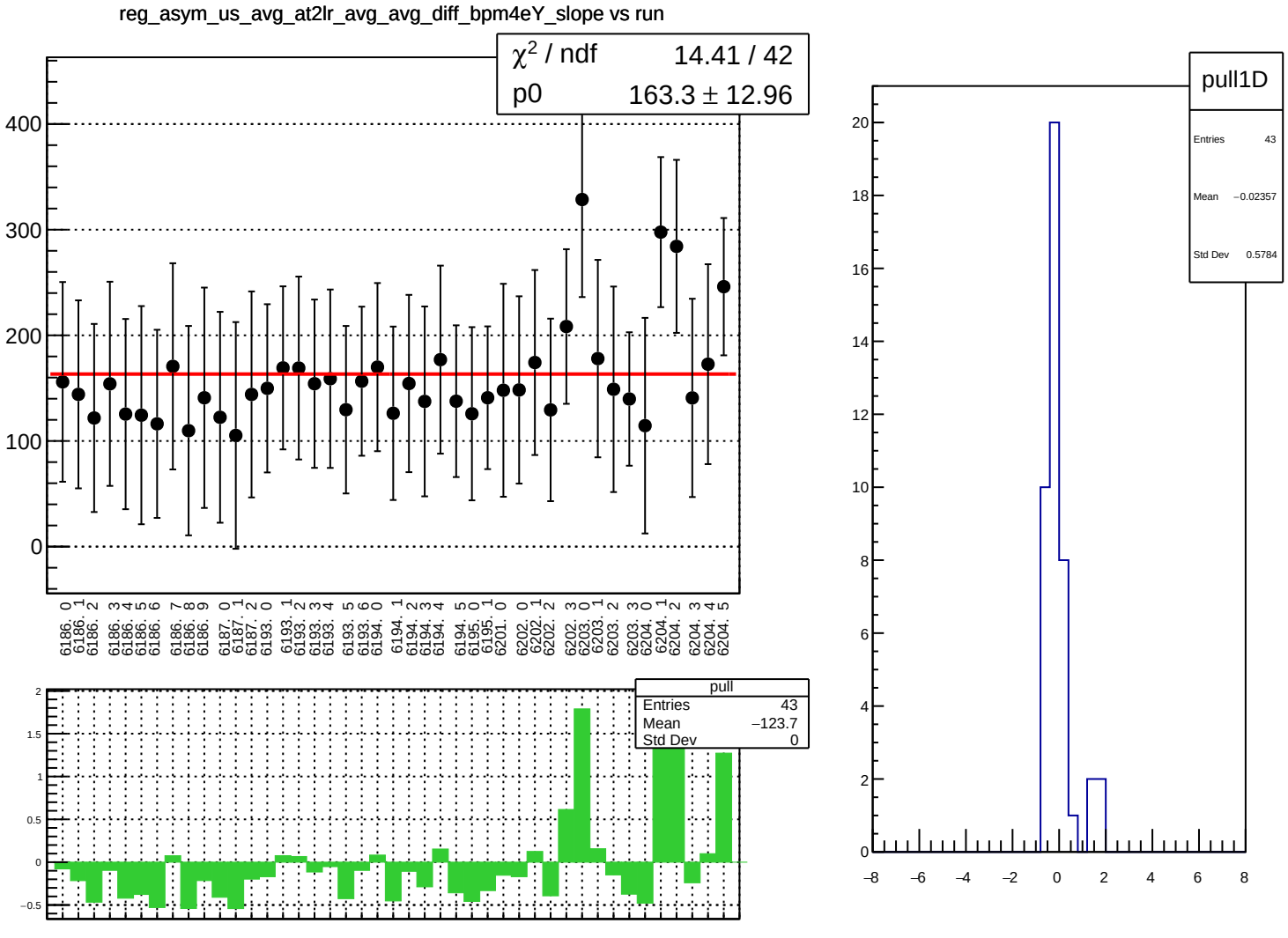

pull1D
Entries 43
Mean −0.02911
Std Dev 0.9264

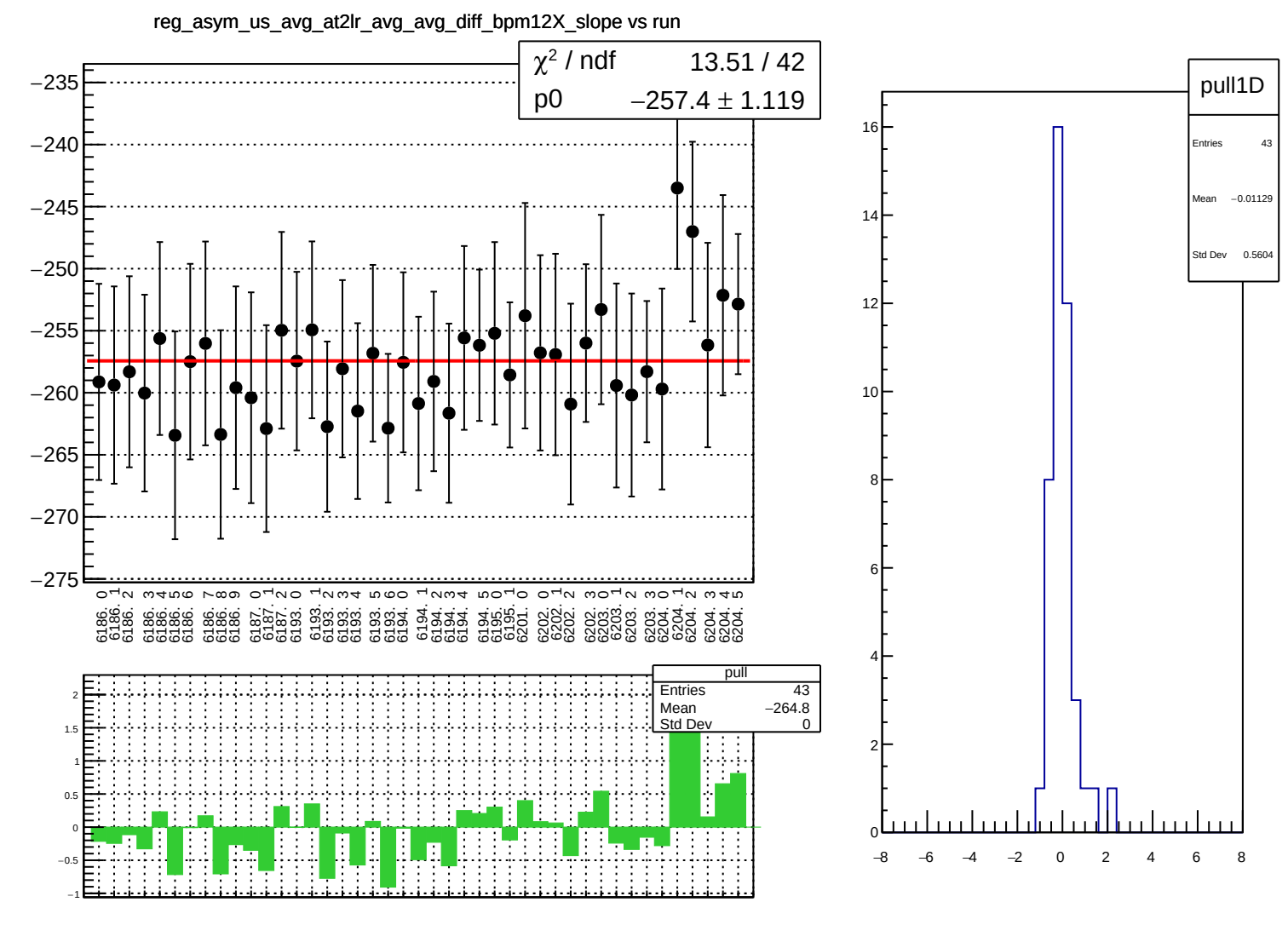

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 21.09 / 42
p0 −484.3 ± 12.32
pull
Entries 43
Mean −75.79
Std Dev 0

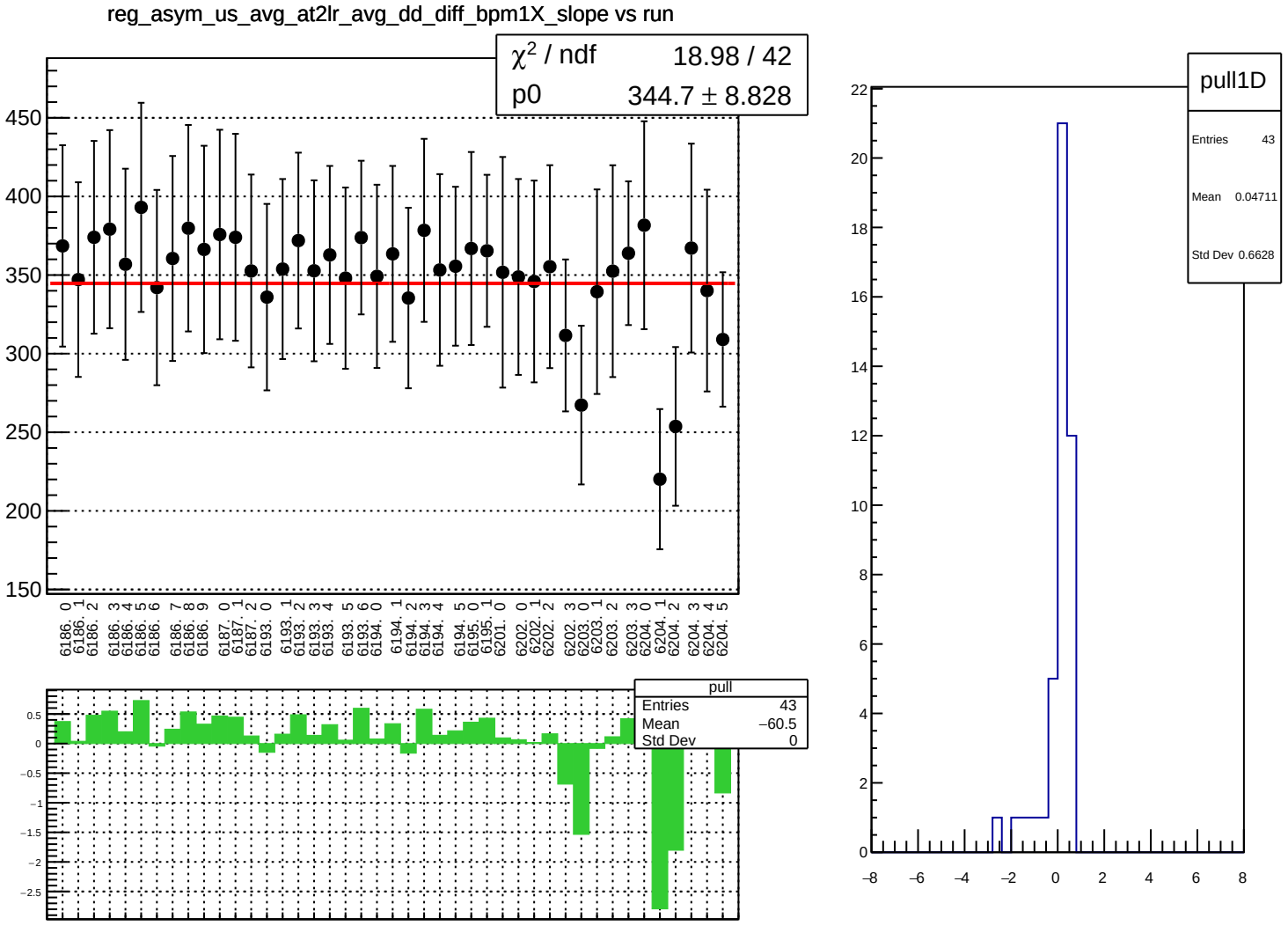

pull1D
Entries 43
Mean −0.04489
Std Dev 0.6988

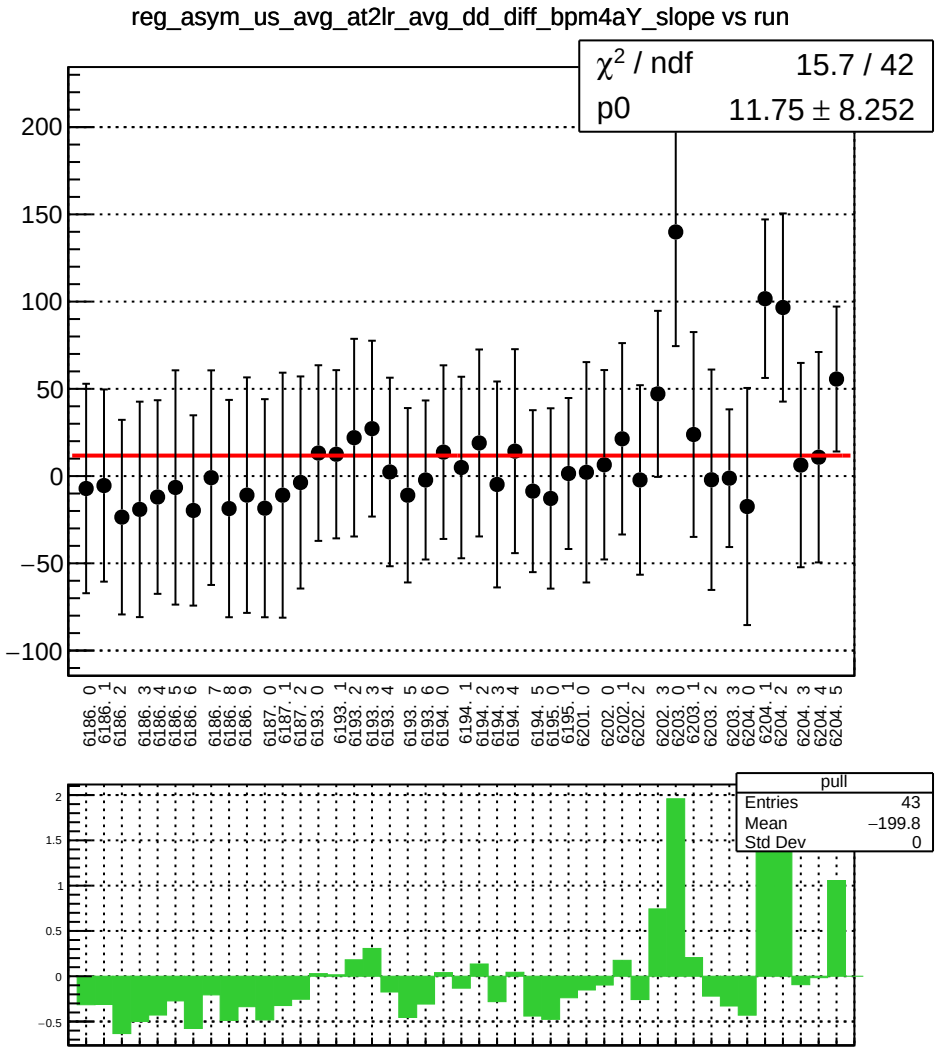

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.92 / 42
p0 −14.14 ± 11.52
150
100
50
0
−50
−100
−150
−200
−250
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −166.8
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01746
Std Dev 0.5479
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

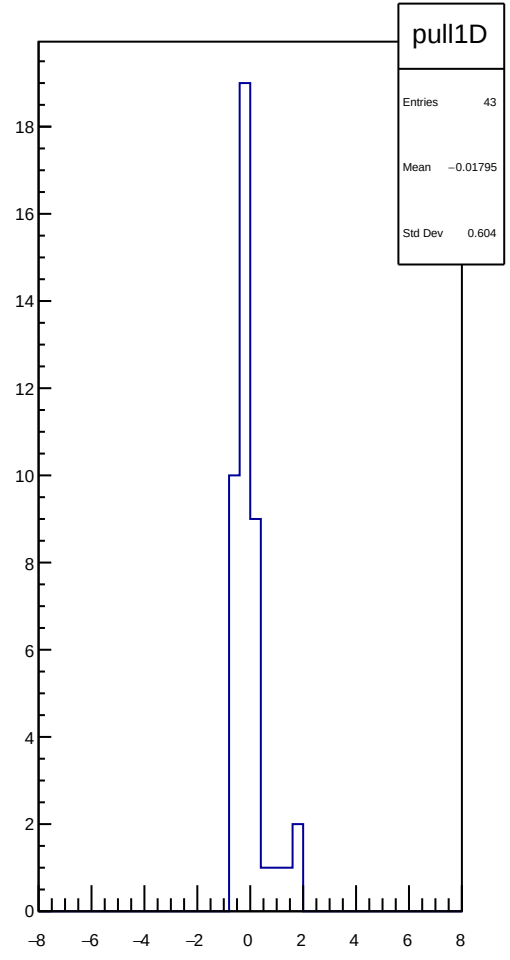

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.06 / 42
p0 607.8 ± 13.45
800
700
600
500
400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −71.27
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 43
Mean 0.04828
Std Dev 0.7147
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

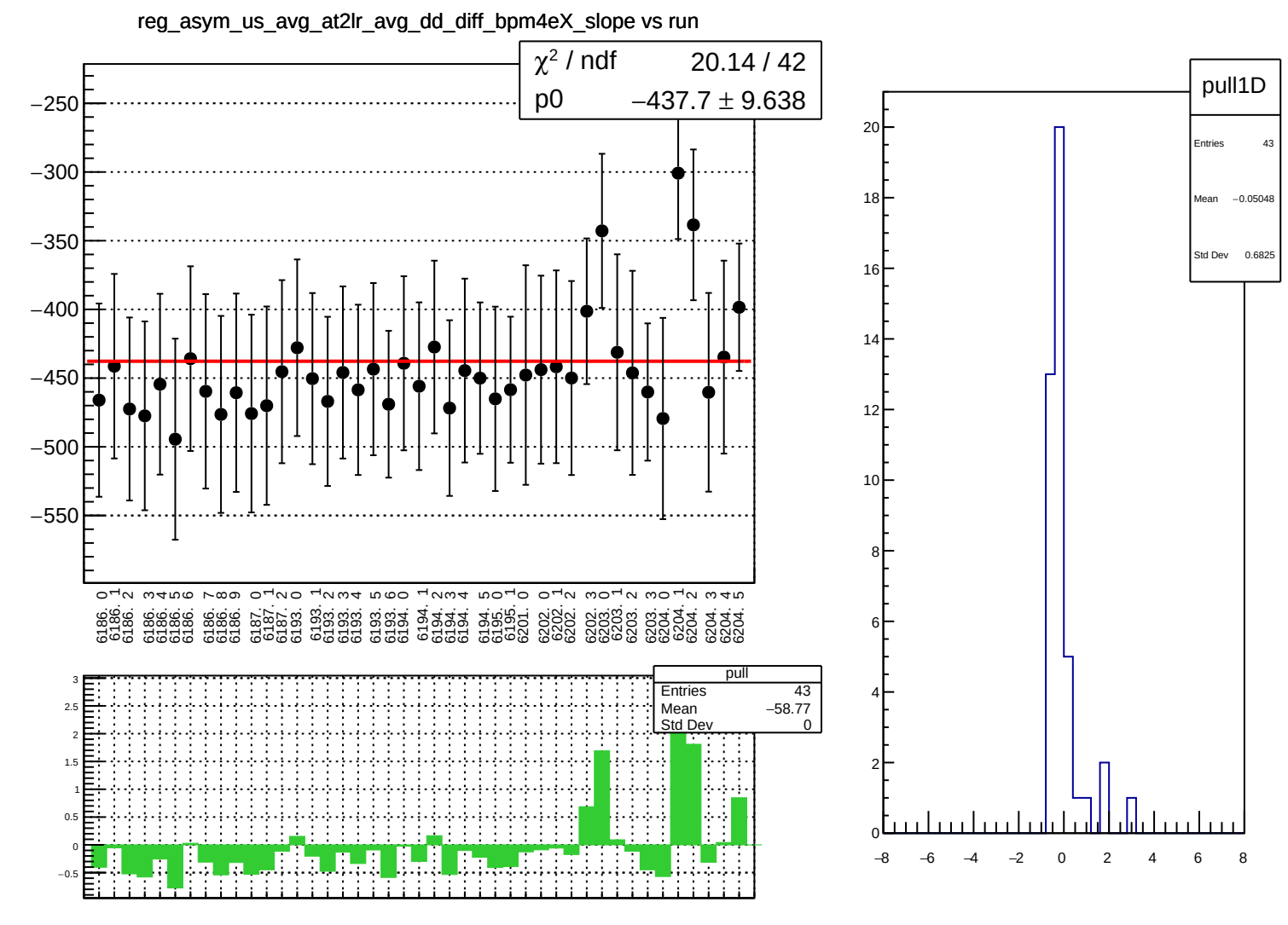

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.41 / 42
p0 163.3 ± 12.96
400
300
200
100
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −123.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.02357
Std Dev 0.5784
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

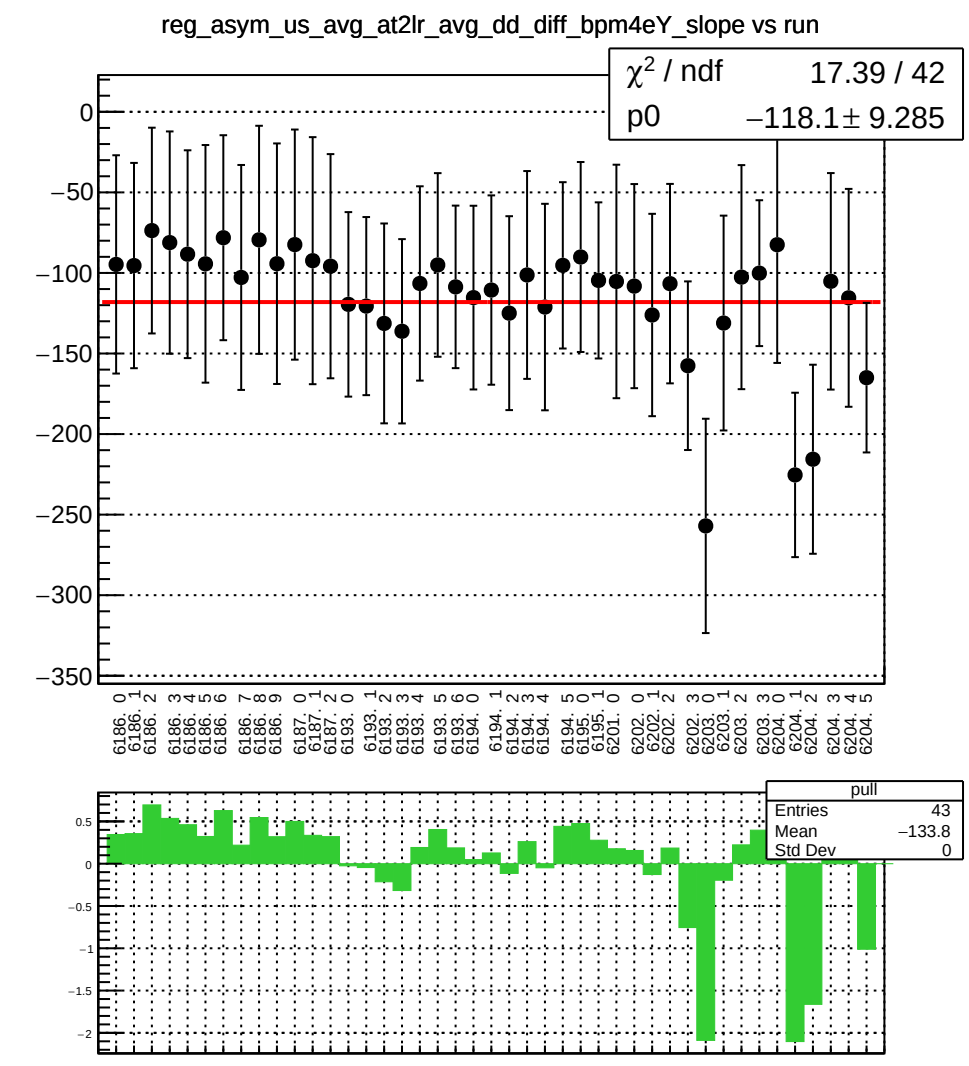

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 13.51 / 42
p0 −257.4 ± 1.119
pull
Entries 43
Mean −264.8
Std Dev 0
pull1D
Entries 43
Mean −0.01129
Std Dev 0.5604

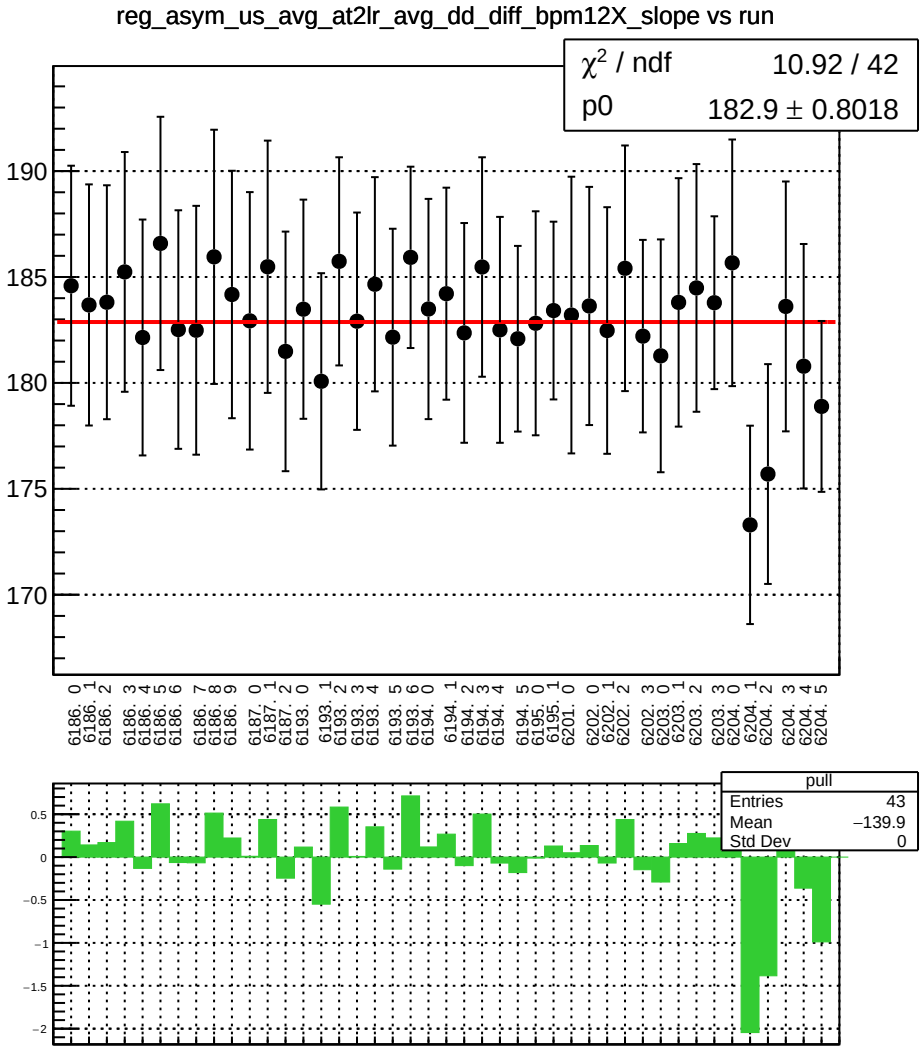

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 18.98 / 42
p0 344.7 ± 8.828
pull
Entries 43
Mean −60.5
Std Dev 0
pull1D
Entries 43
Mean 0.04711
Std Dev 0.6628

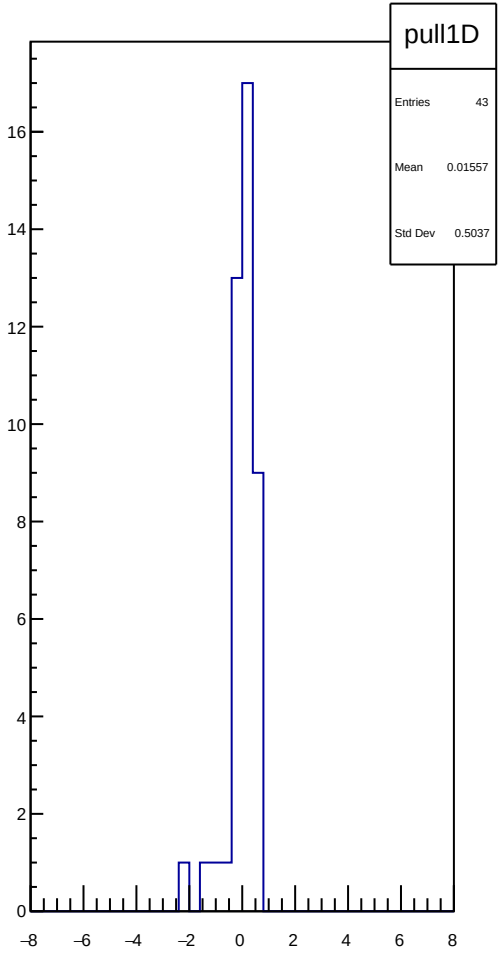

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.7 / 42
p0 11.75 ± 8.252
pull
Entries 43
Mean −199.8
Std Dev 0

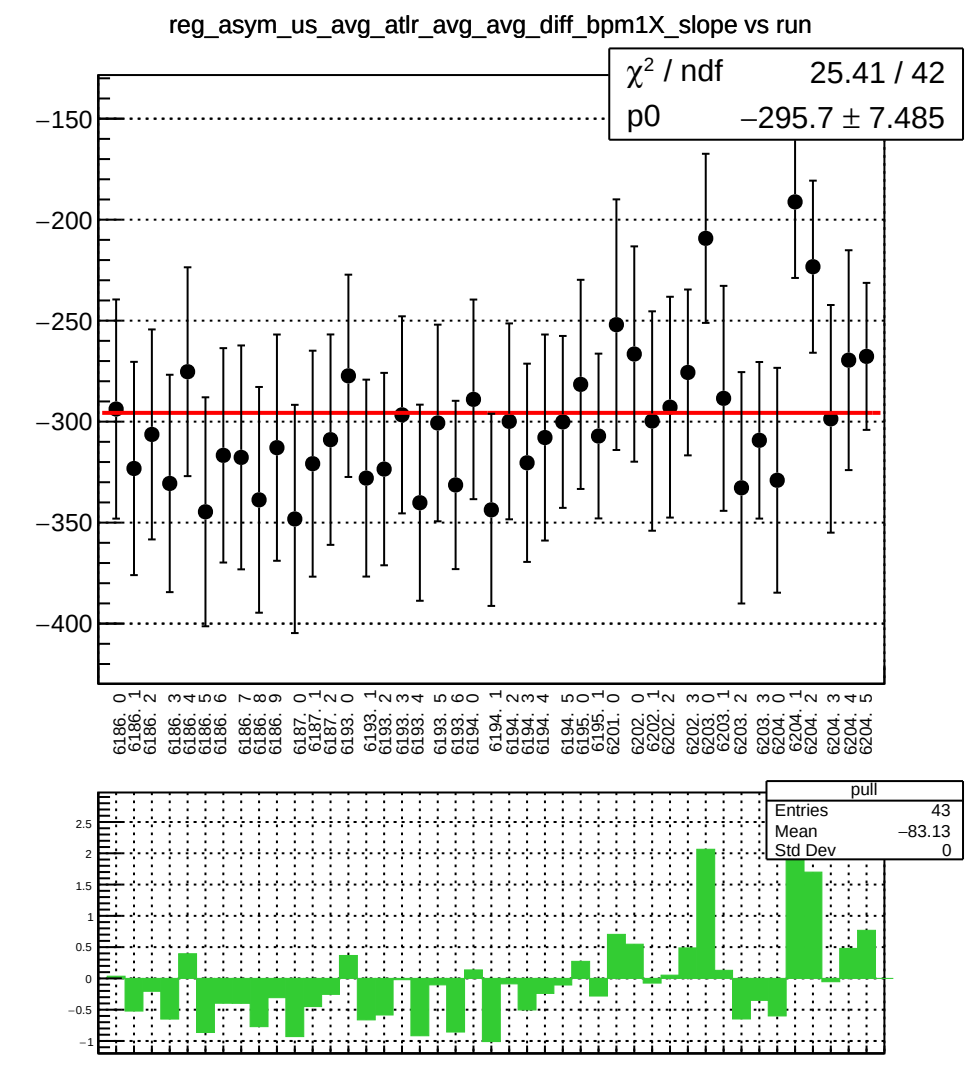

pull1D
Entries 43
Mean −0.01795
Std Dev 0.604

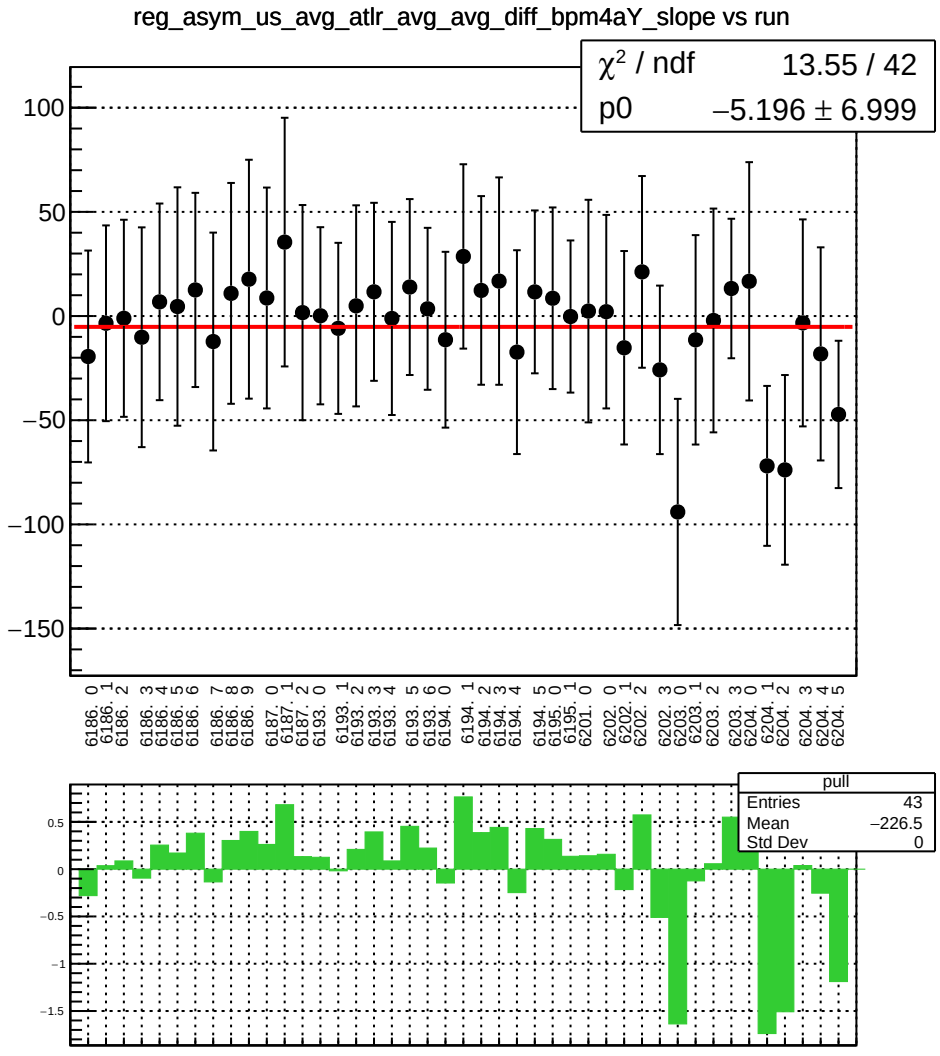

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.14 / 42
p0 −437.7 ± 9.638
−250
−300
−350
−400
−450
−500
−550
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −58.77
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.05048
Std Dev 0.6825
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

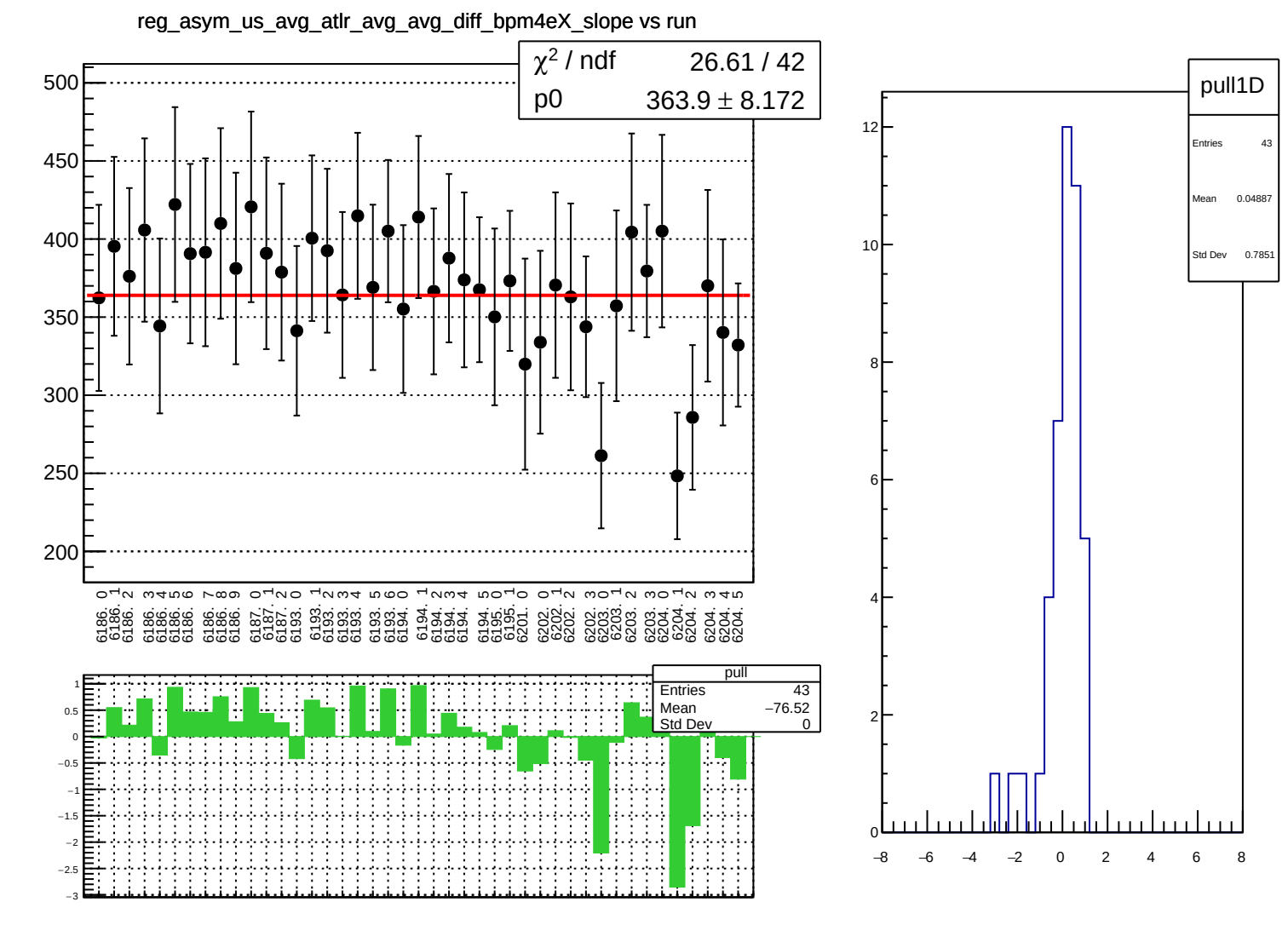

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.39 / 42
p0 −118.1± 9.285
0
−50
−100
−150
−200
−250
−300
−350
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −133.8
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 43
Mean 0.02646
Std Dev 0.6353
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

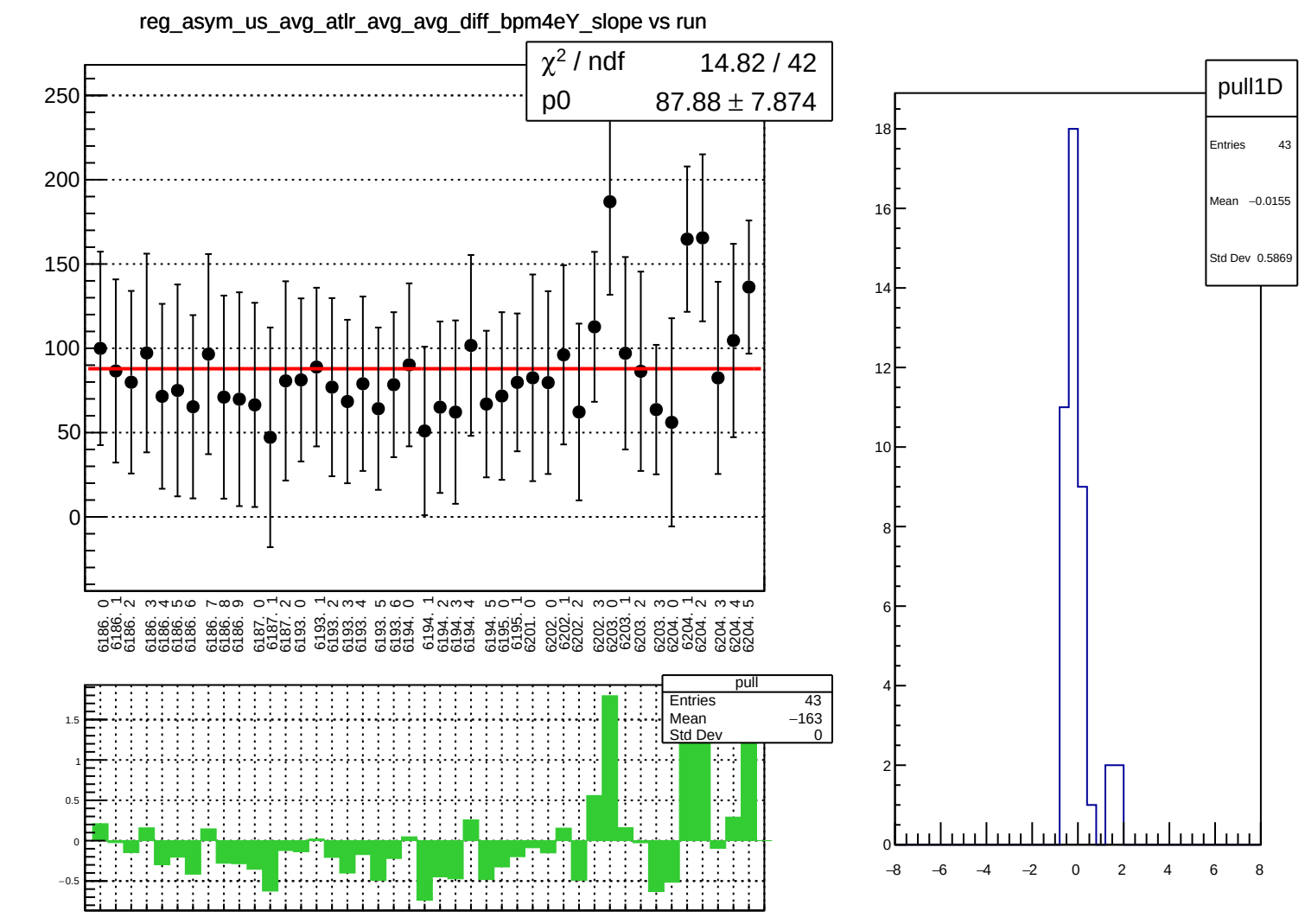

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 10.92 / 42
p0 182.9 ± 0.8018
190
185
180
175
170
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −139.9
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2

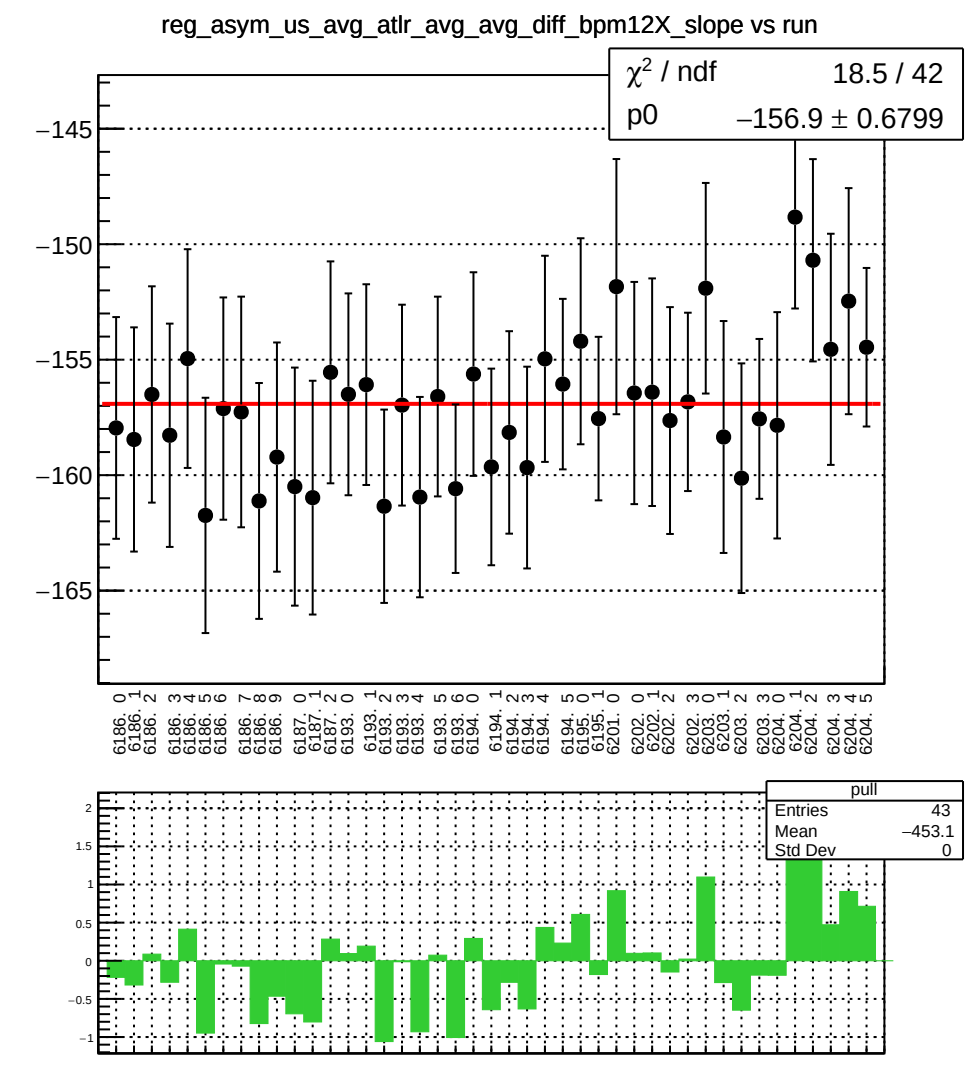

pull1D
Entries 43
Mean 0.01557
Std Dev 0.5037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

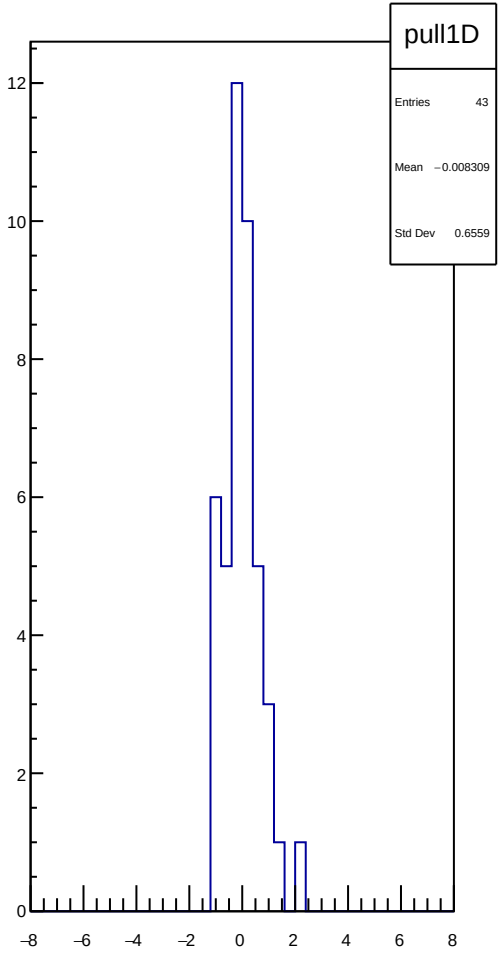

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 25.41 / 42
p0 −295.7 ± 7.485
−150
−200
−250
−300
−350
−400
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −83.13
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.04499
Std Dev 0.7674
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

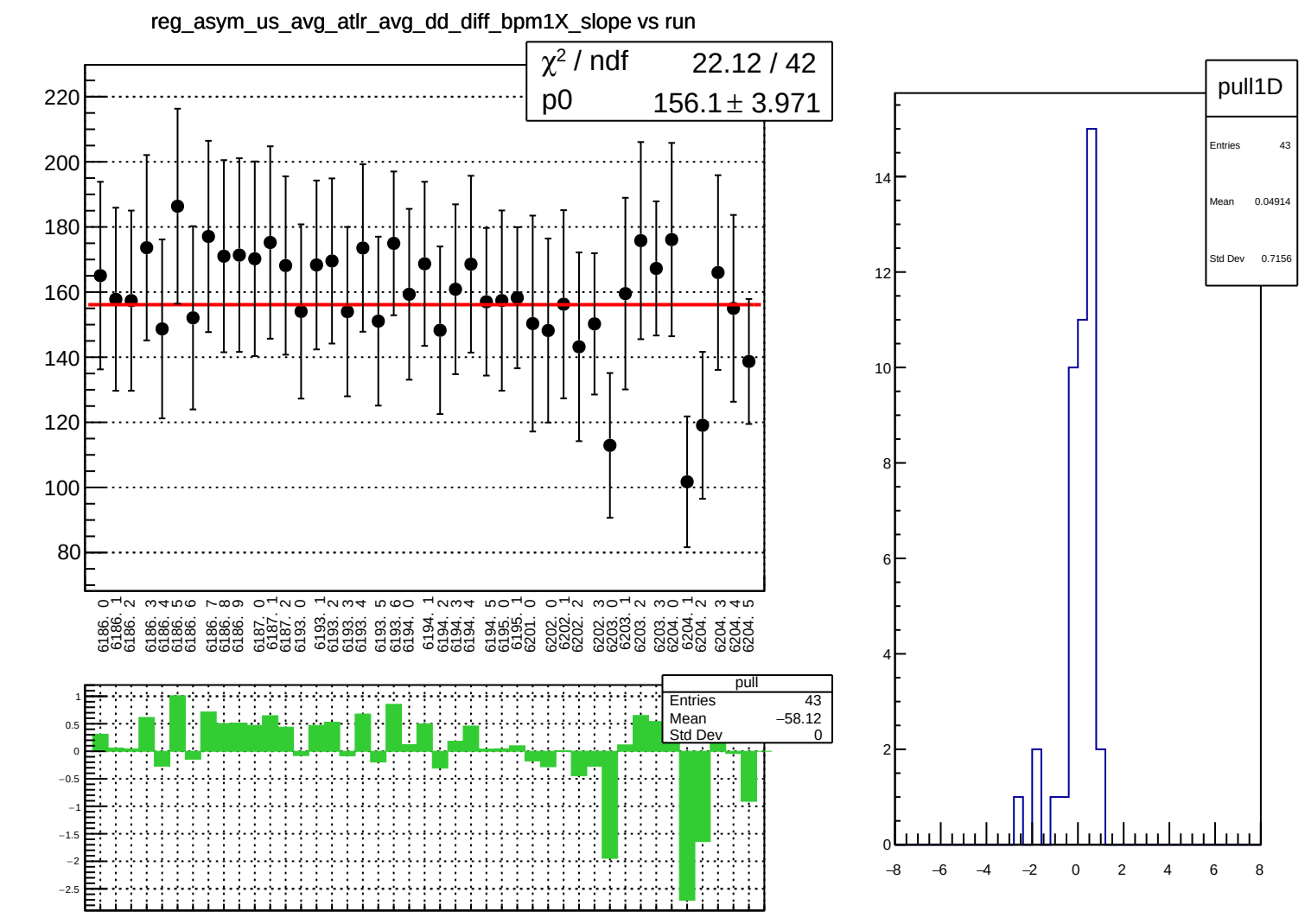

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.55 / 42
p0 −5.196 ± 6.999
100
50
0
−50
−100
−150
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −226.5
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01111
Std Dev 0.5612
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

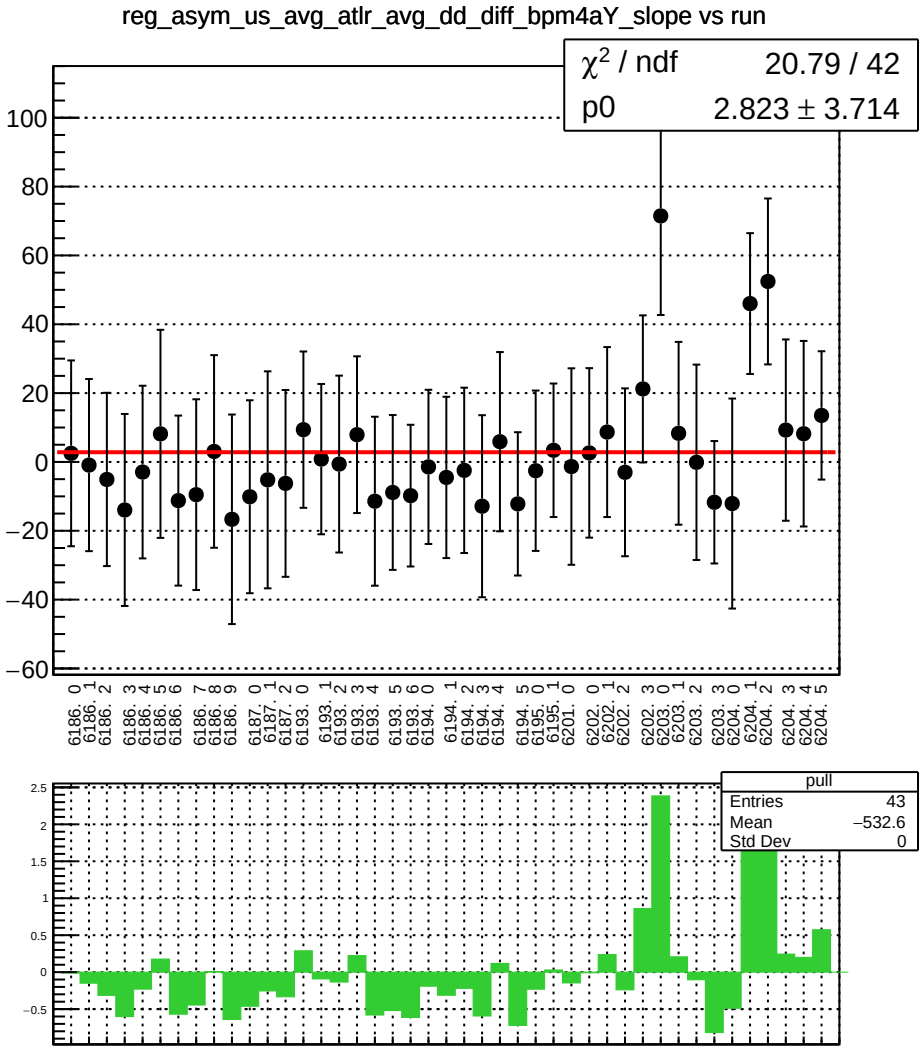

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.61 / 42
p0 363.9 ± 8.172
500
450
400
350
300
250
200
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −76.52
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 43
Mean 0.04887
Std Dev 0.7851
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

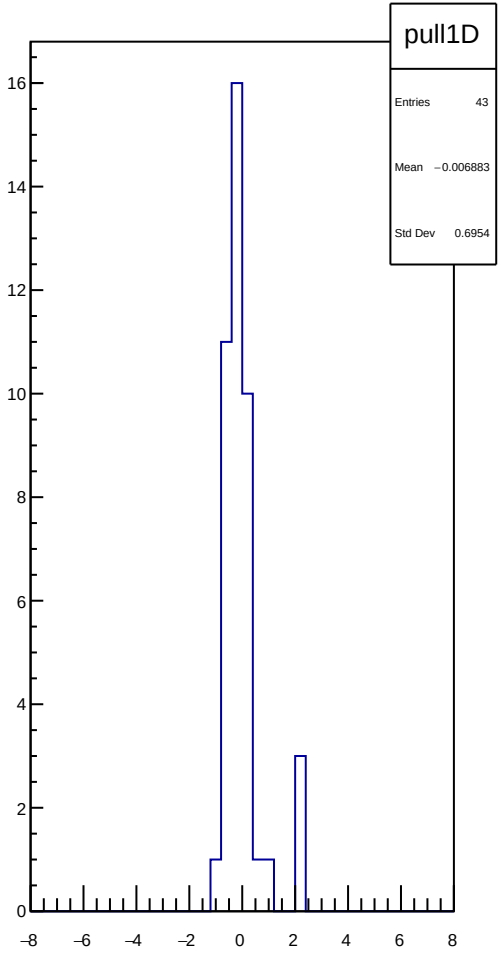

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.82 / 42
p0 87.88 ± 7.874
250
200
150
100
50
0
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −163
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 43
Mean −0.0155
Std Dev 0.5869
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

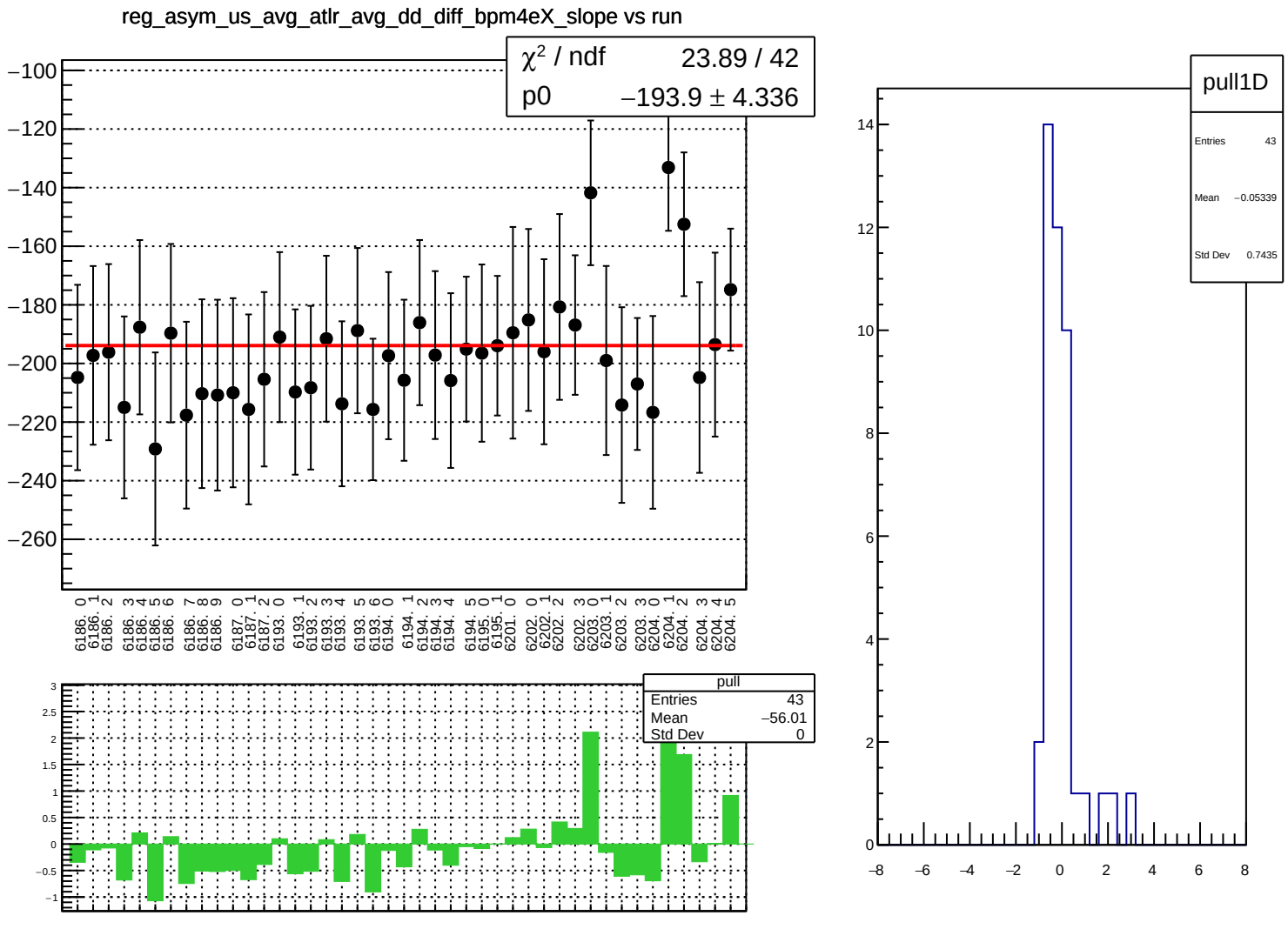

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 18.5 / 42
p0 −156.9 ± 0.6799
−145
−150
−155
−160
−165
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −453.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

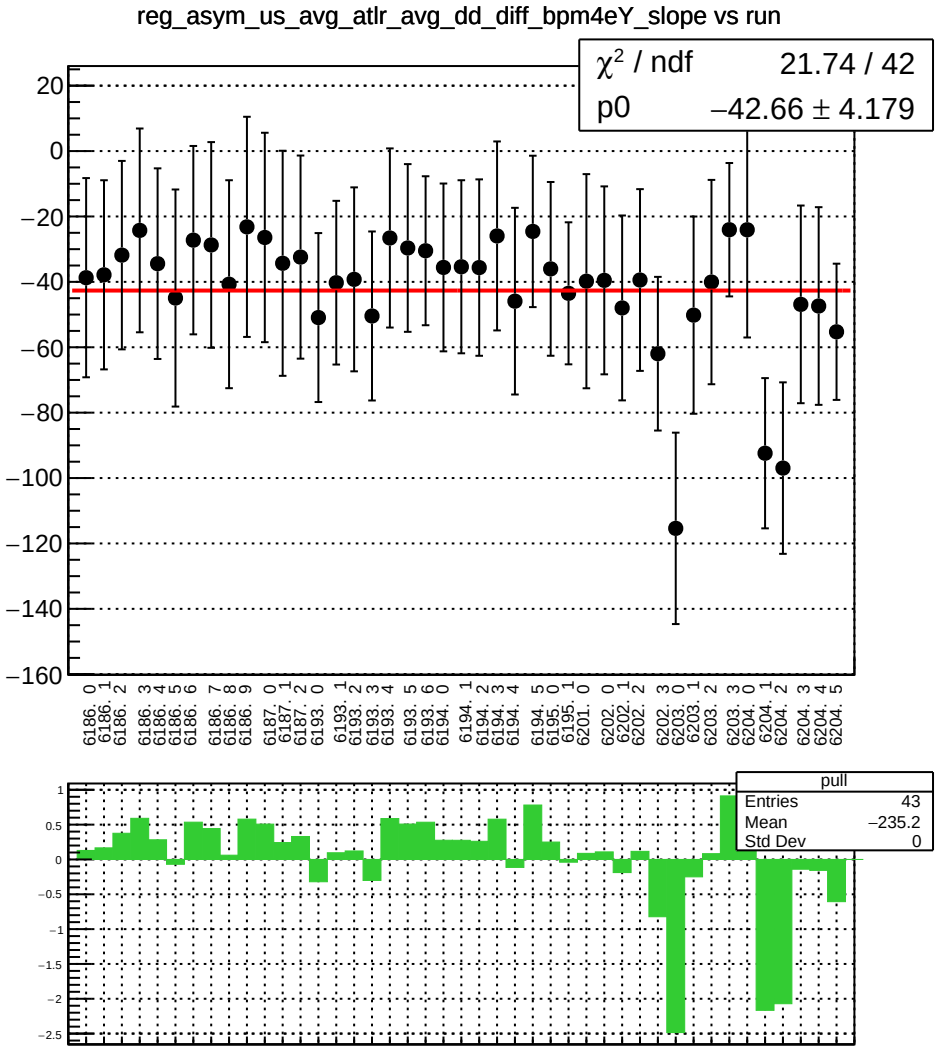

pull1D
Entries 43
Mean −0.008309
Std Dev 0.6559
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

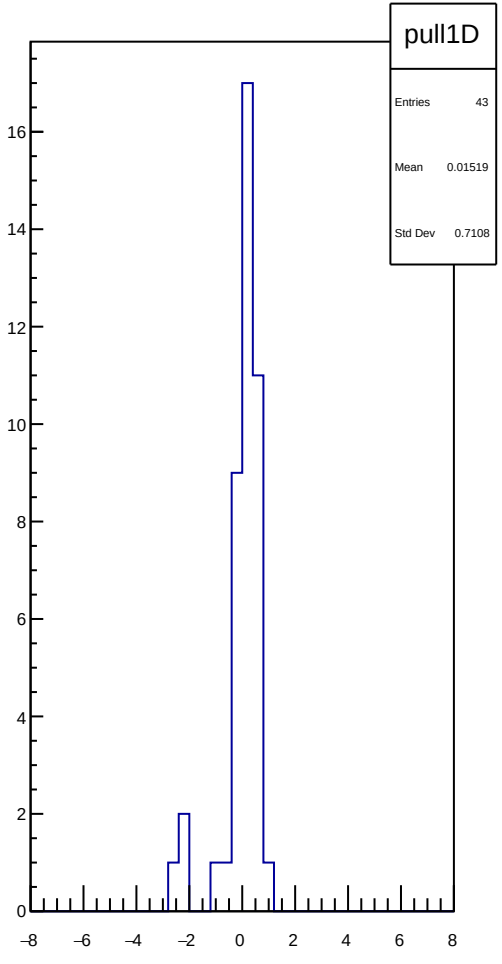

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 22.12 / 42
p0 156.1 ± 3.971
220
200
180
160
140
120
100
80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −58.12
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.04914
Std Dev 0.7156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

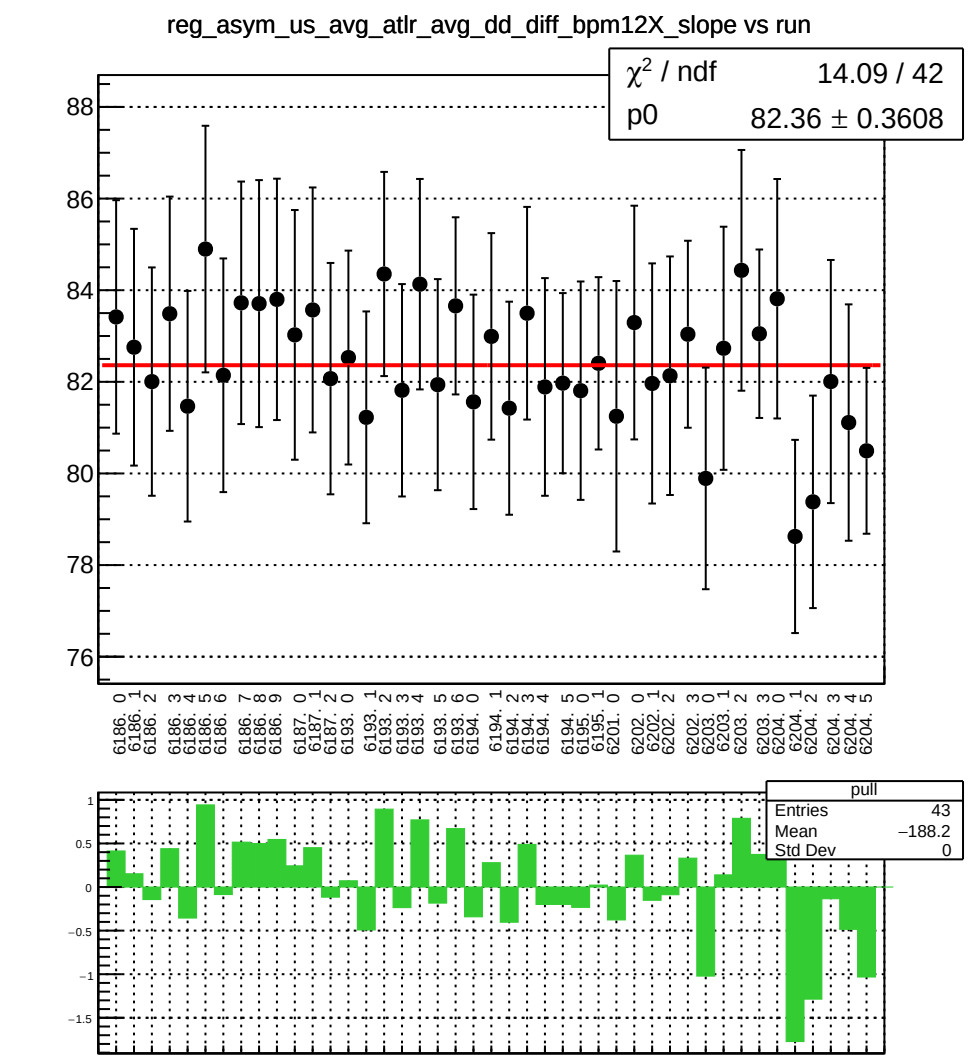

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.79 / 42
p0 2.823 ± 3.714
pull
Entries 43
Mean −532.6
Std Dev 0

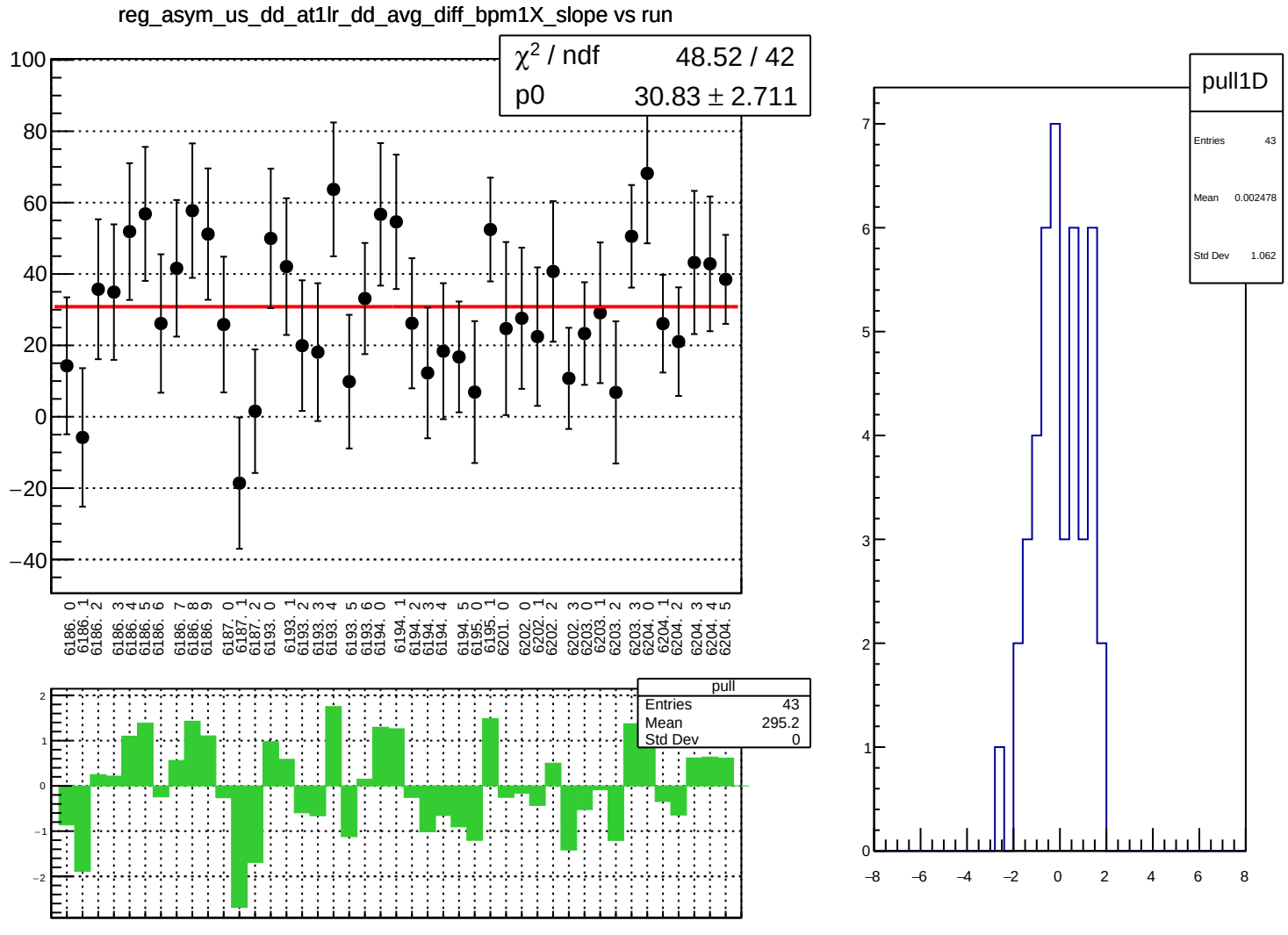

pull1D
Entries 43
Mean −0.006883
Std Dev 0.6954

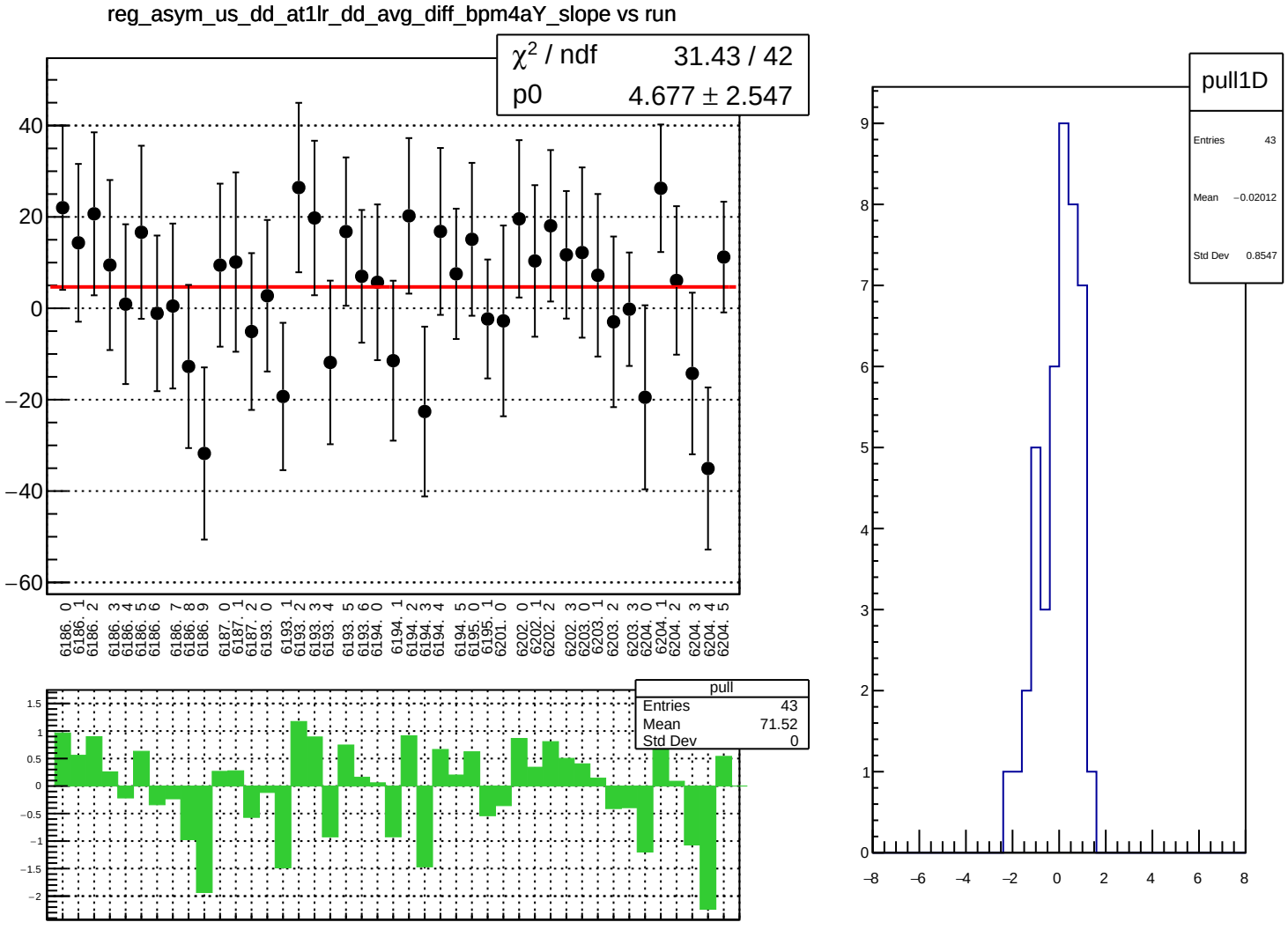

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.89 / 42
p0 −193.9 ± 4.336
pull
Entries 43
Mean −56.01
Std Dev 0
pull1D
Entries 43
Mean −0.05339
Std Dev 0.7435

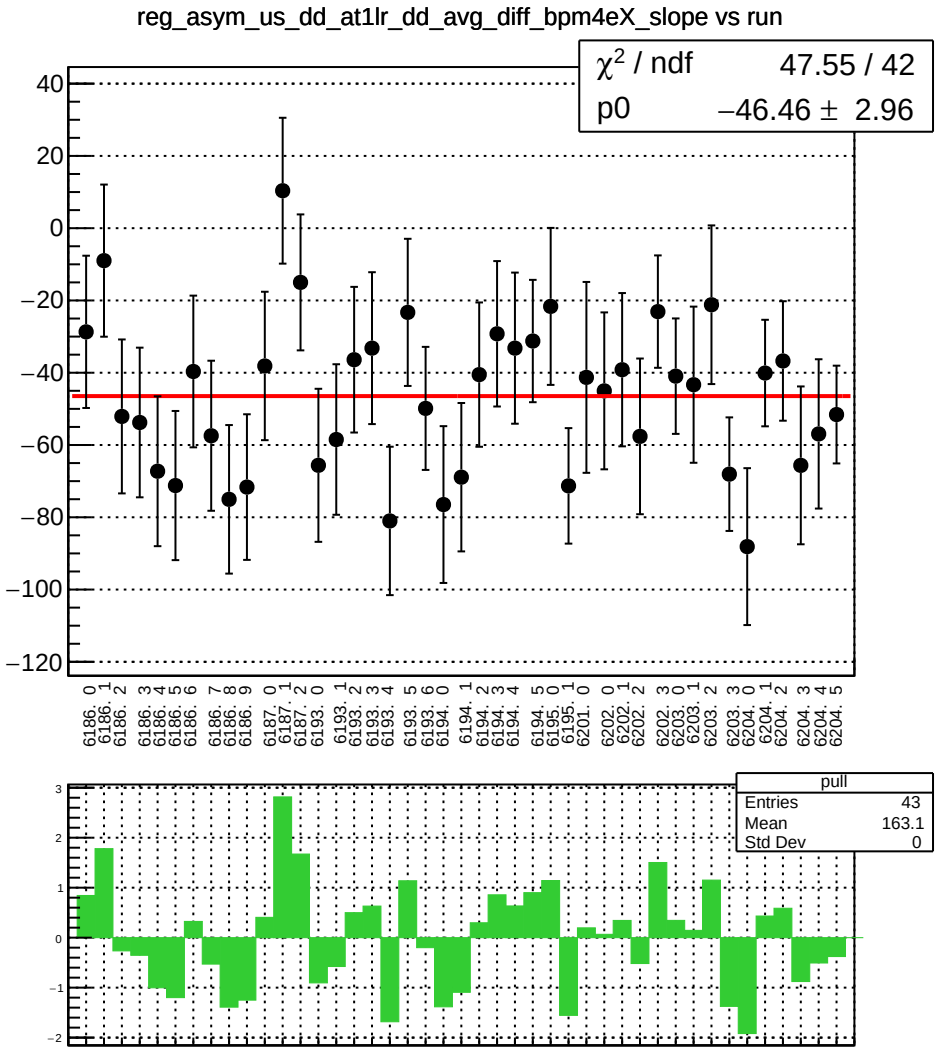

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.74 / 42
p0 −42.66 ± 4.179
pull
Entries 43
Mean −235.2
Std Dev 0

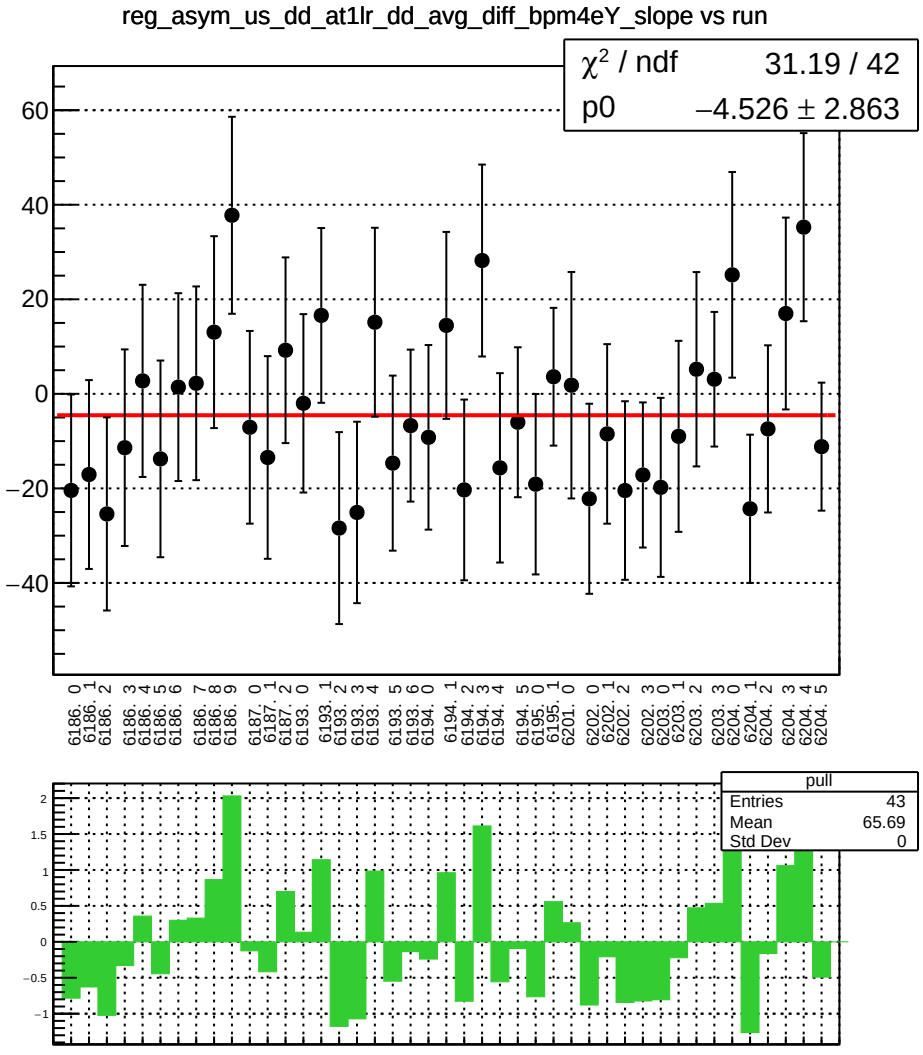

pull1D
Entries 43
Mean 0.01519
Std Dev 0.7108

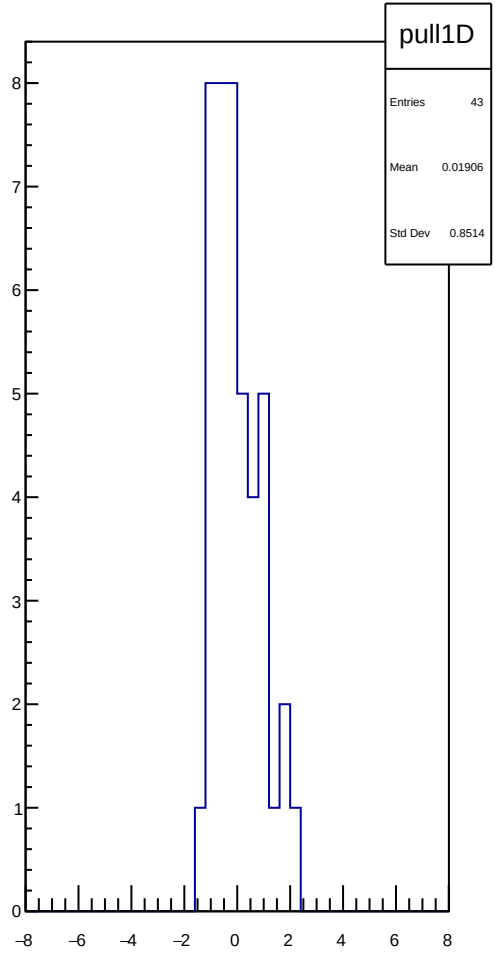

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 14.09 / 42
p0 82.36 ± 0.3608
88
86
84
82
80
78
76
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −188.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.01421
Std Dev 0.5722
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

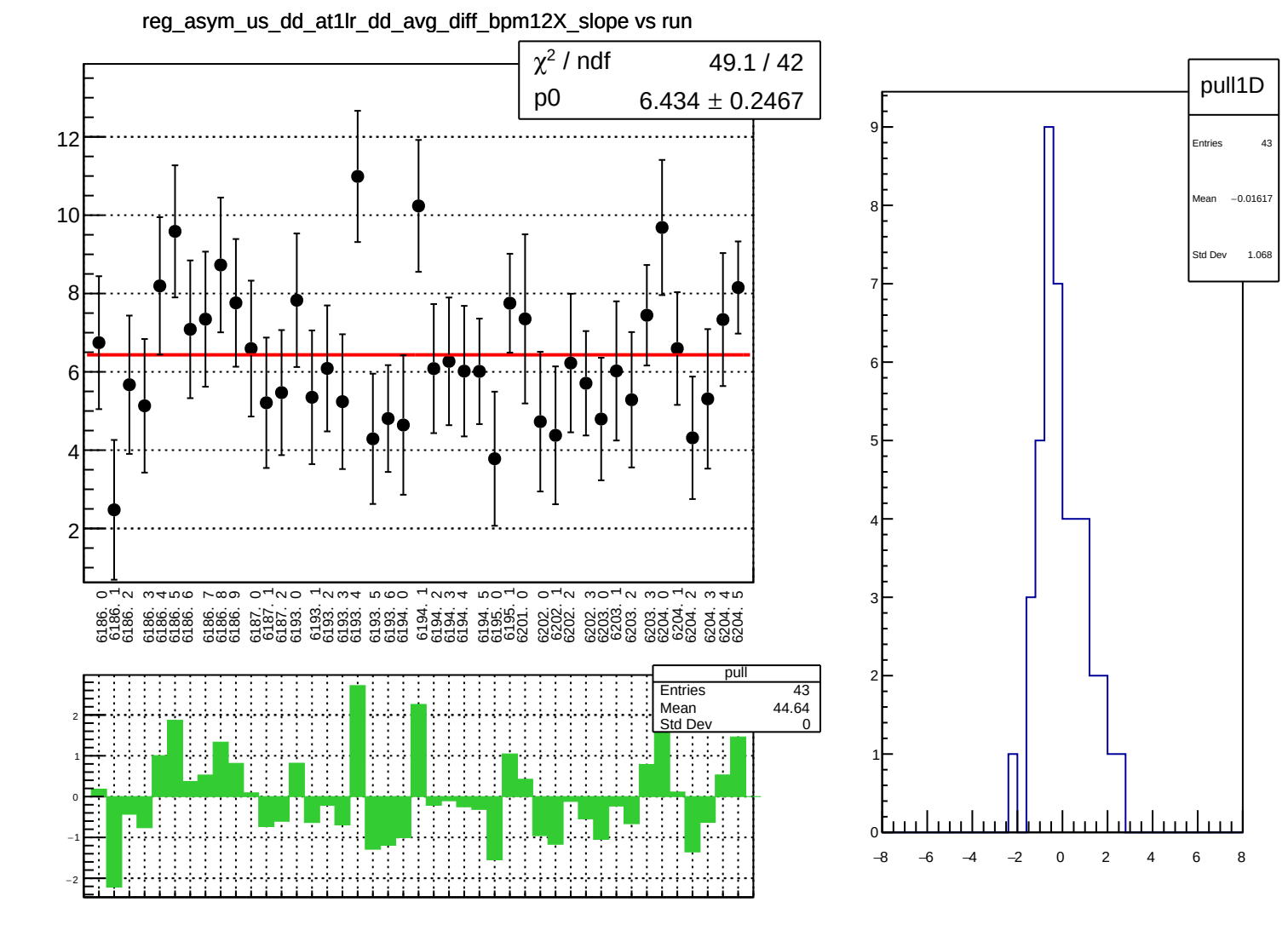

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 48.52 / 42
p0 30.83 ± 2.711
pull
Entries 43
Mean 295.2
Std Dev 0
pull1D
Entries 43
Mean 0.002478
Std Dev 1.062

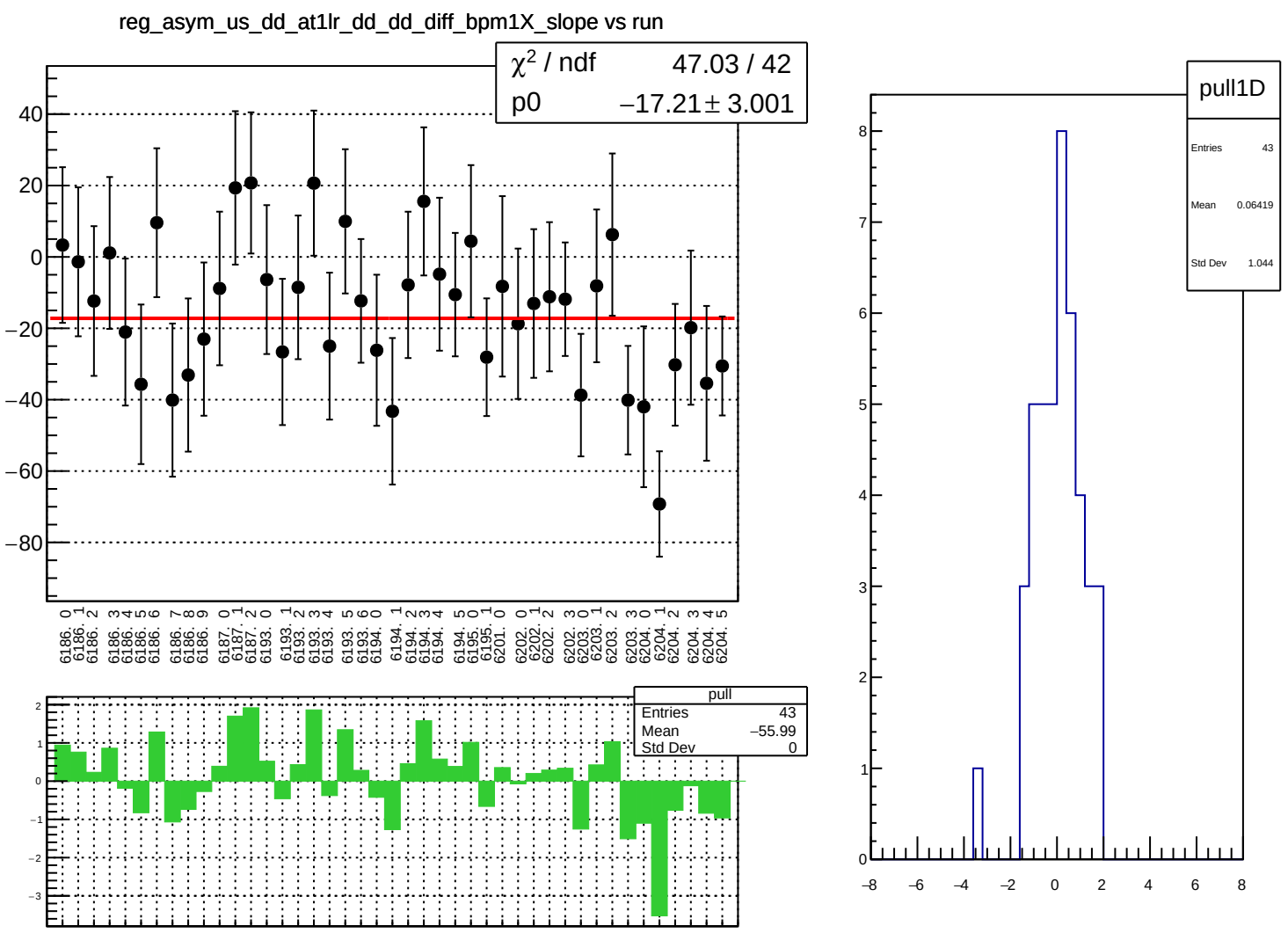

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.43 / 42
p0 4.677 ± 2.547
pull
Entries 43
Mean 71.52
Std Dev 0
pull1D
Entries 43
Mean −0.02012
Std Dev 0.8547

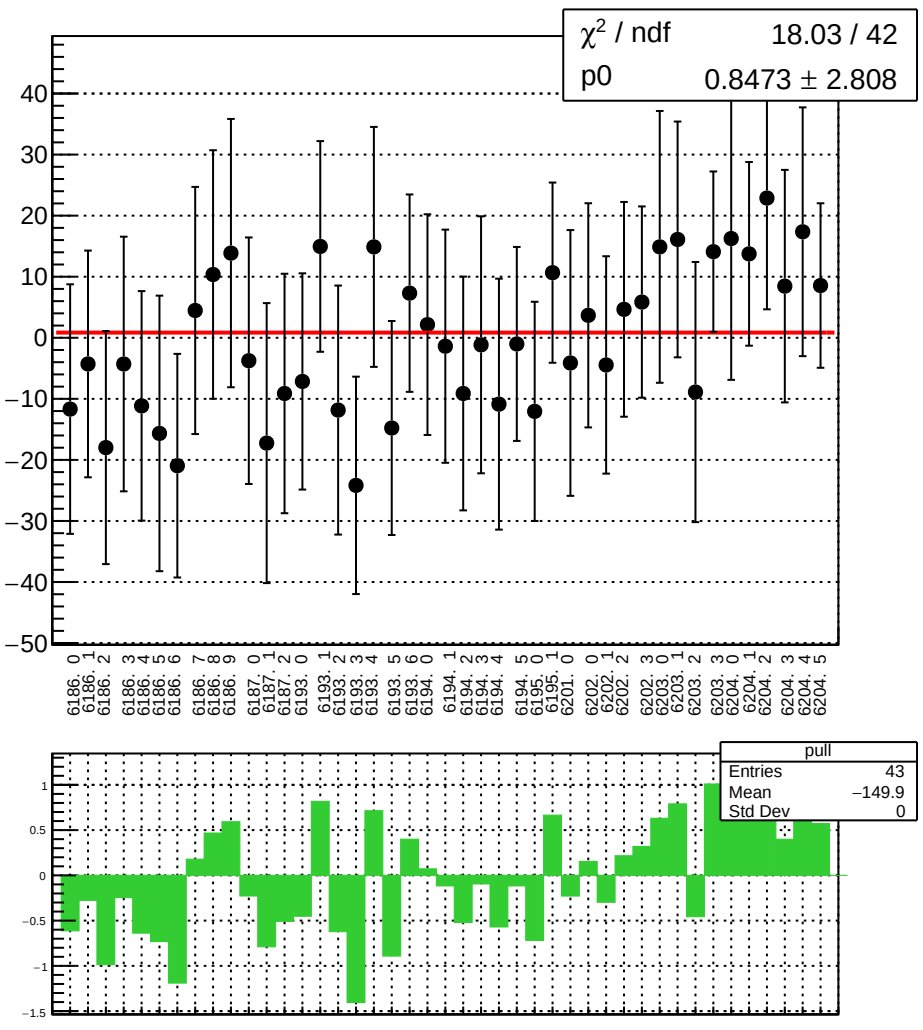

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.55 / 42
p0 −46.46 ± 2.96
pull
Entries 43
Mean 163.1
Std Dev 0
pull1D
Entries 43
Mean −0.005466
Std Dev 1.052

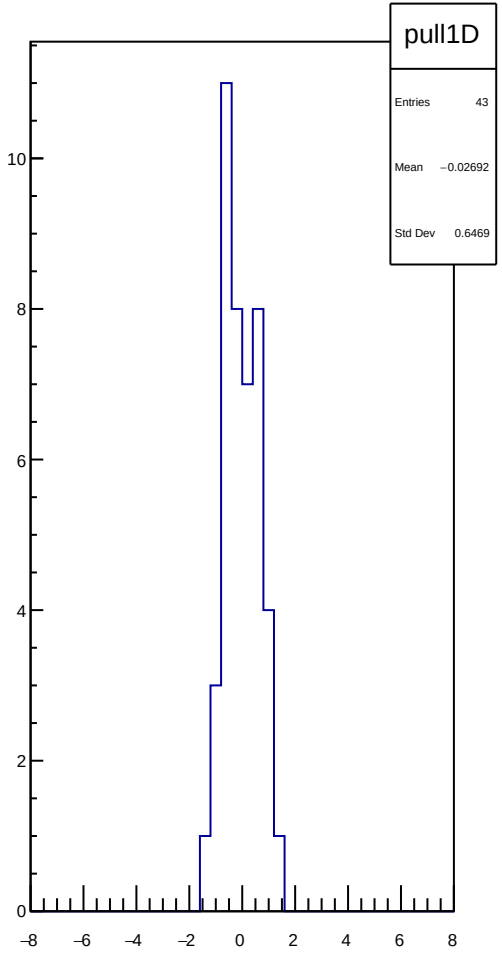

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.19 / 42
p0 −4.526 ± 2.863
pull
Entries 43
Mean 65.69
Std Dev 0

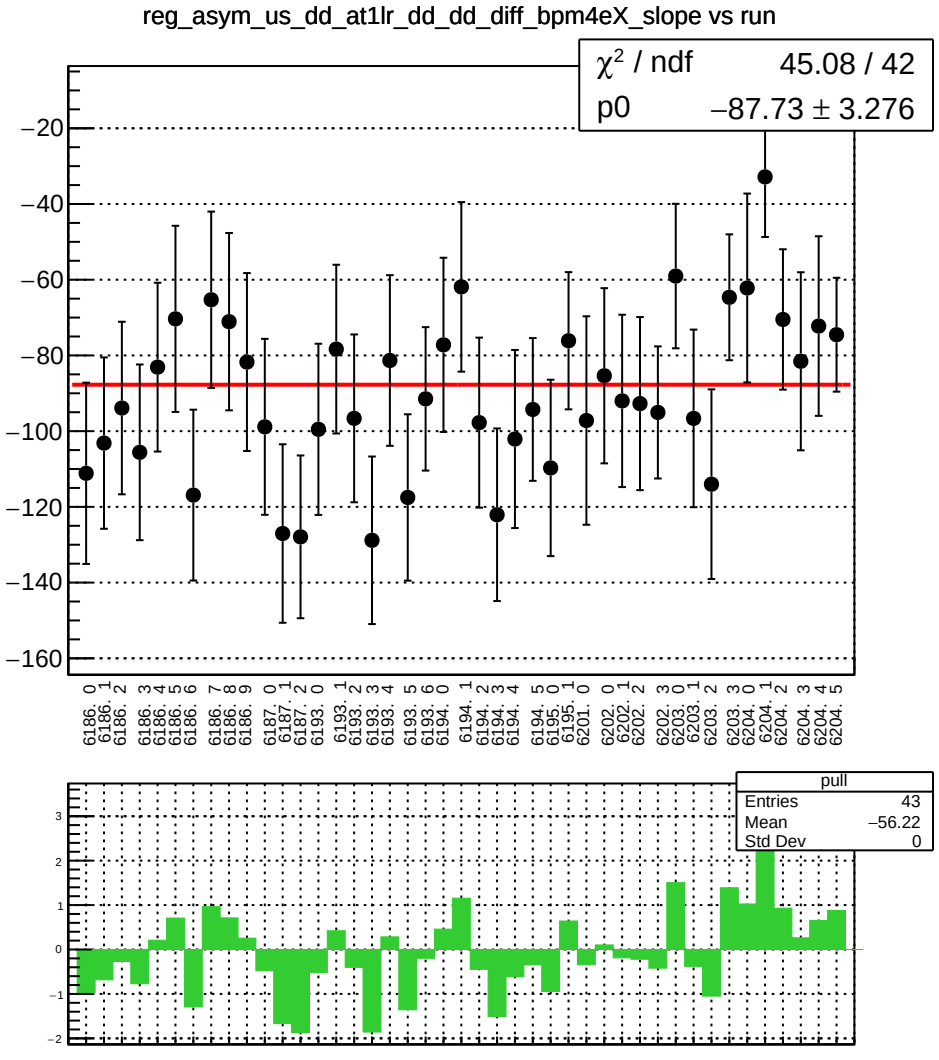

pull1D
Entries 43
Mean 0.01906
Std Dev 0.8514

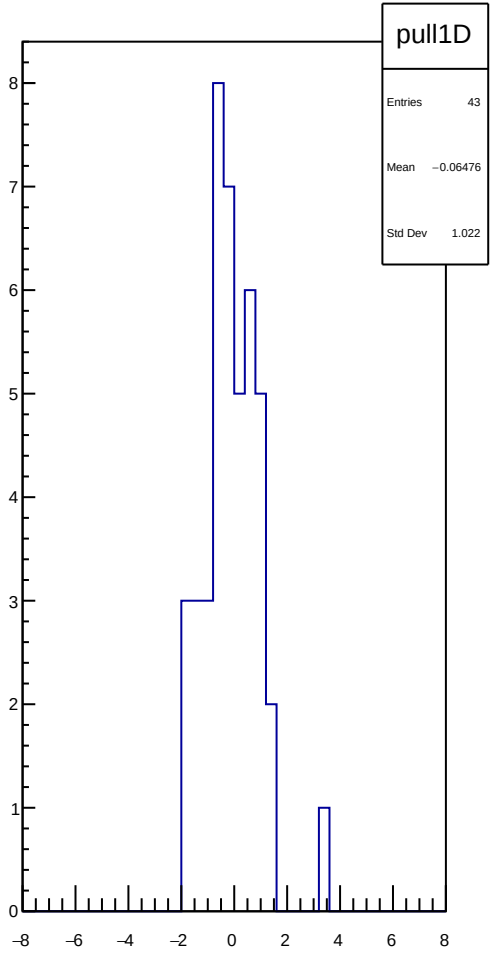

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 49.1 / 42
p0 6.434 ± 0.2467
pull
Entries 43
Mean 44.64
Std Dev 0
pull1D
Entries 43
Mean −0.01617
Std Dev 1.068

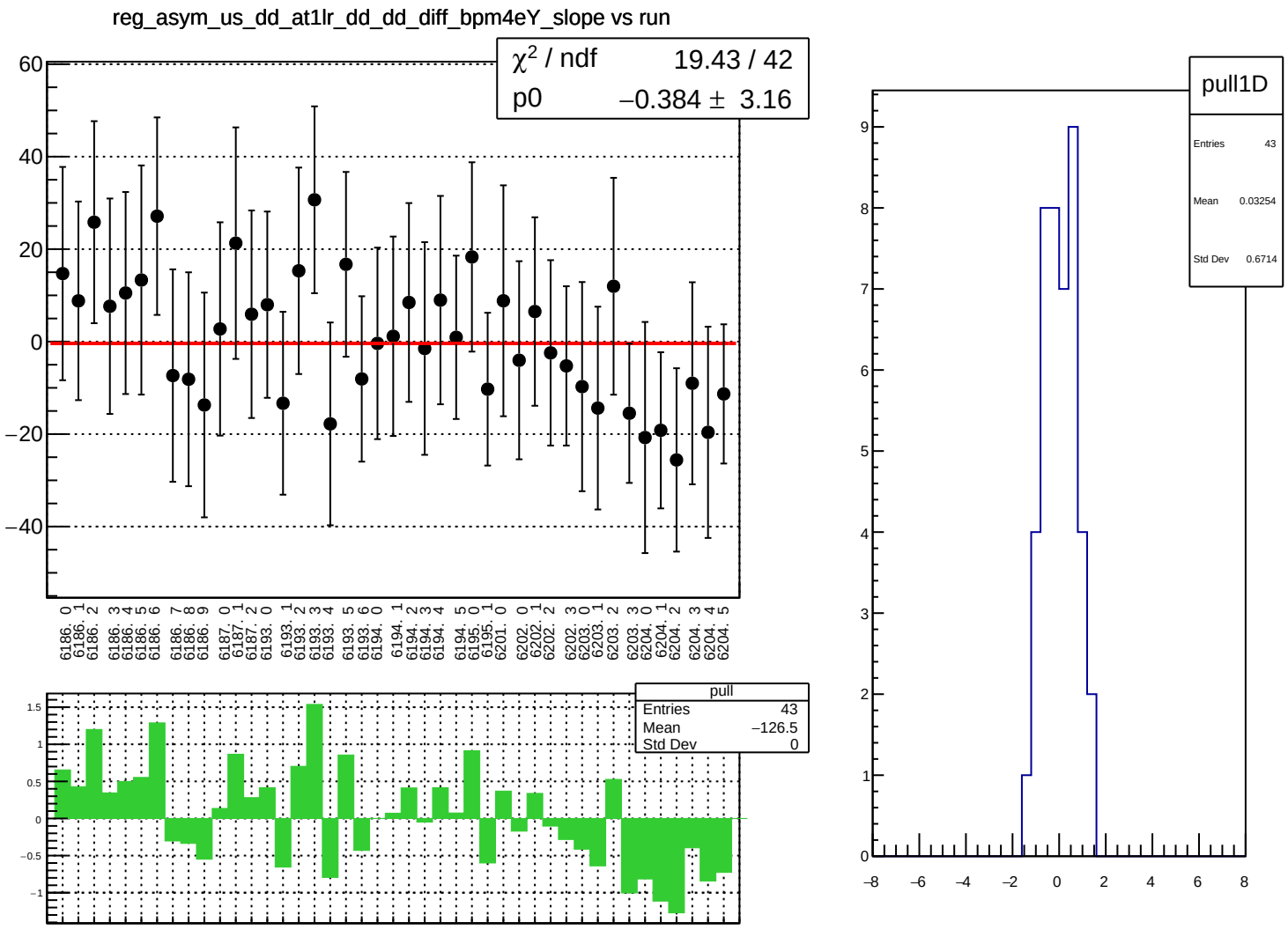

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 47.03 / 42
p0 −17.21 ± 3.001
40
20
0
−20
−40
−60
−80
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −55.99
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.06419
Std Dev 1.044
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

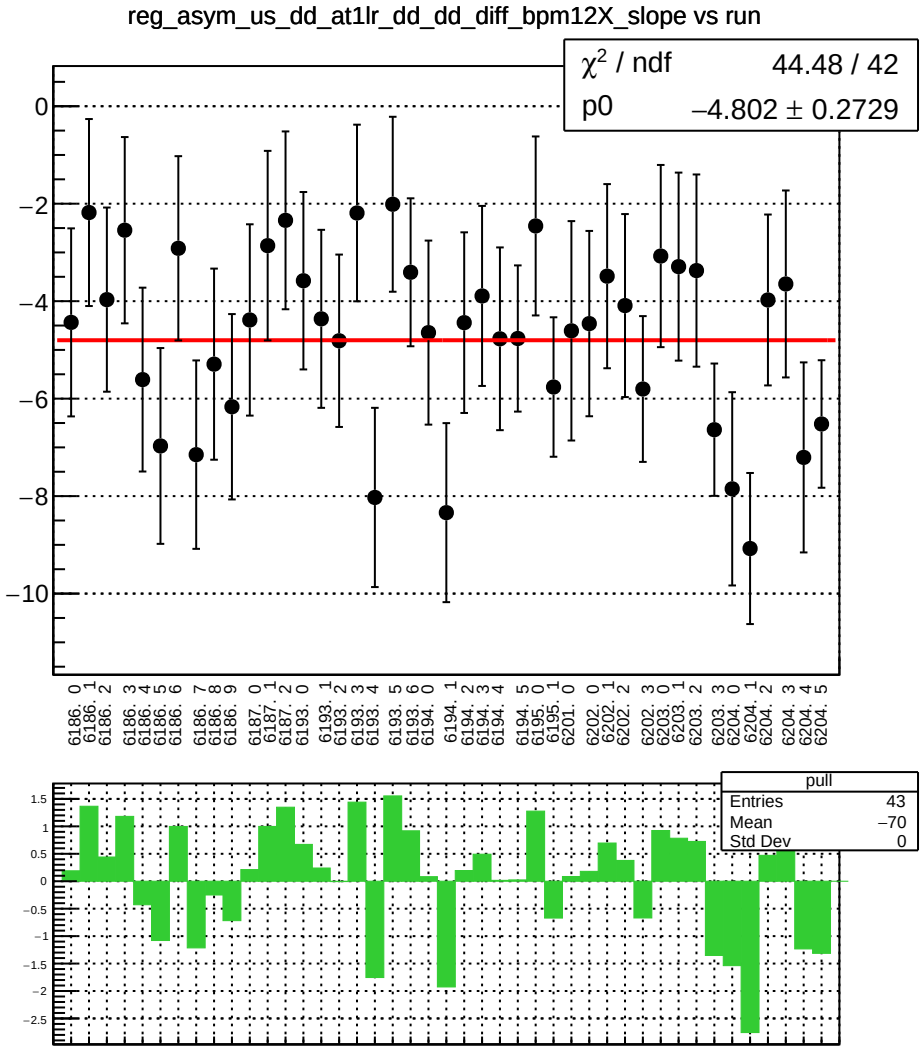

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.03 / 42
p0 0.8473 ± 2.808
pull
Entries 43
Mean −149.9
Std Dev 0

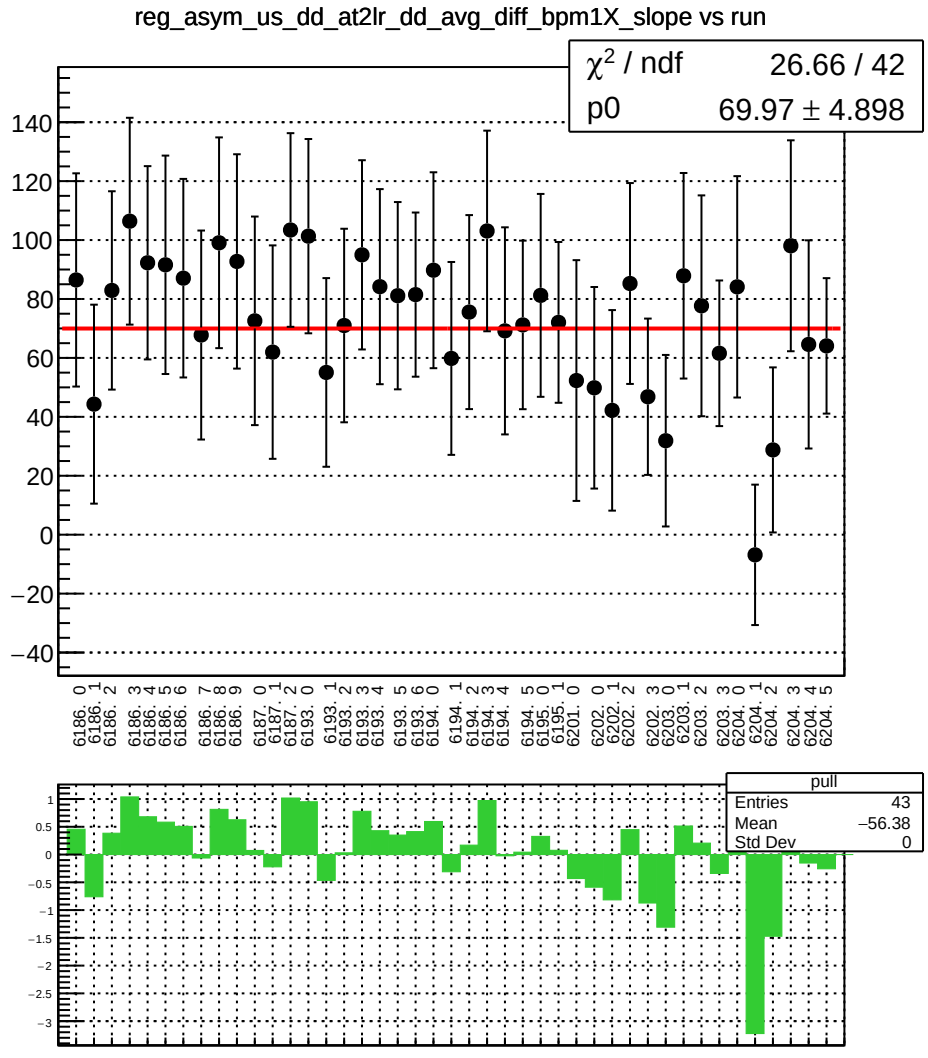

pull1D
Entries 43
Mean −0.02692
Std Dev 0.6469

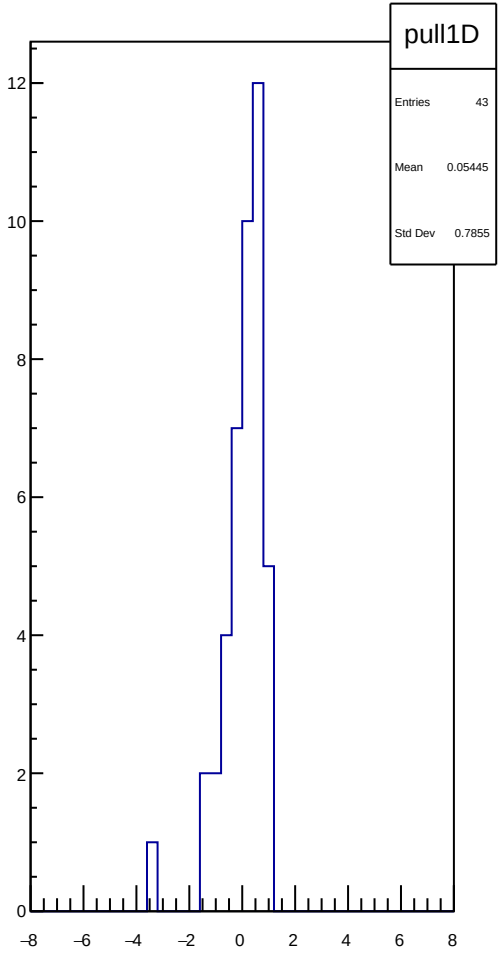

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.08 / 42
p0 −87.73 ± 3.276
pull
Entries 43
Mean −56.22
Std Dev 0

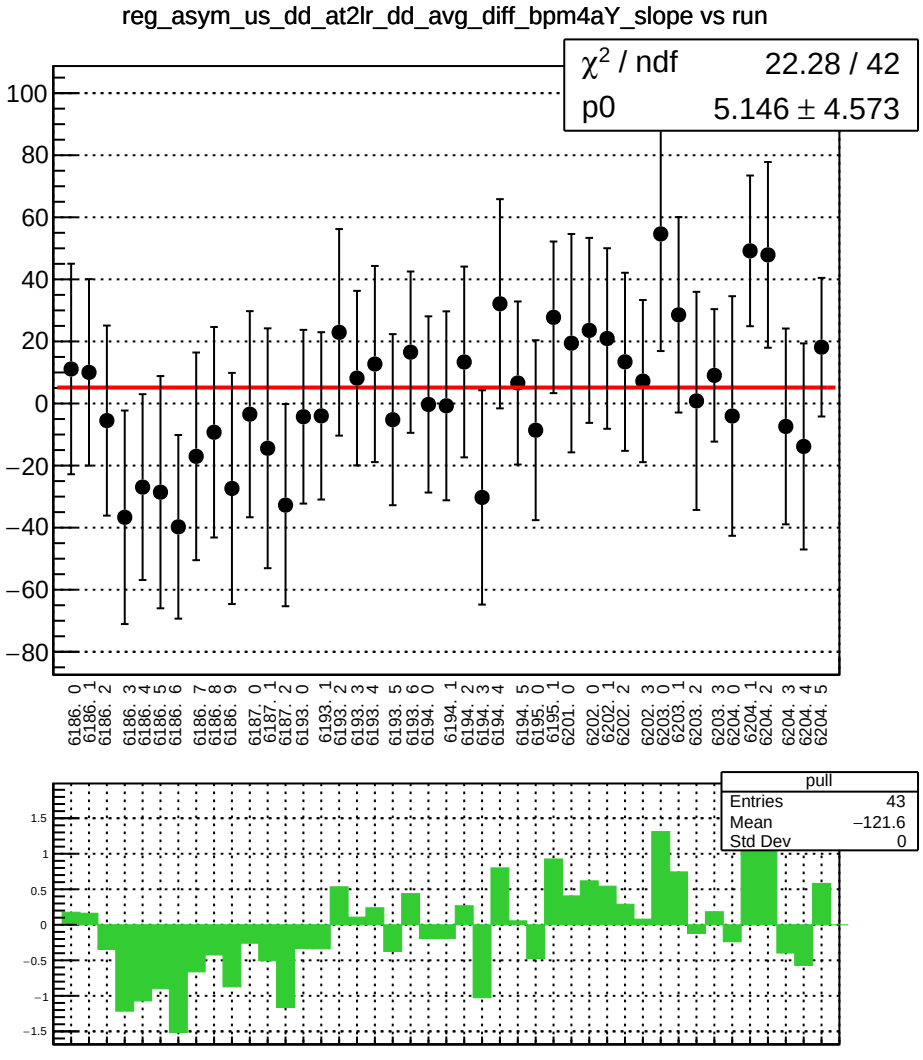

pull1D
Entries 43
Mean −0.06476
Std Dev 1.022

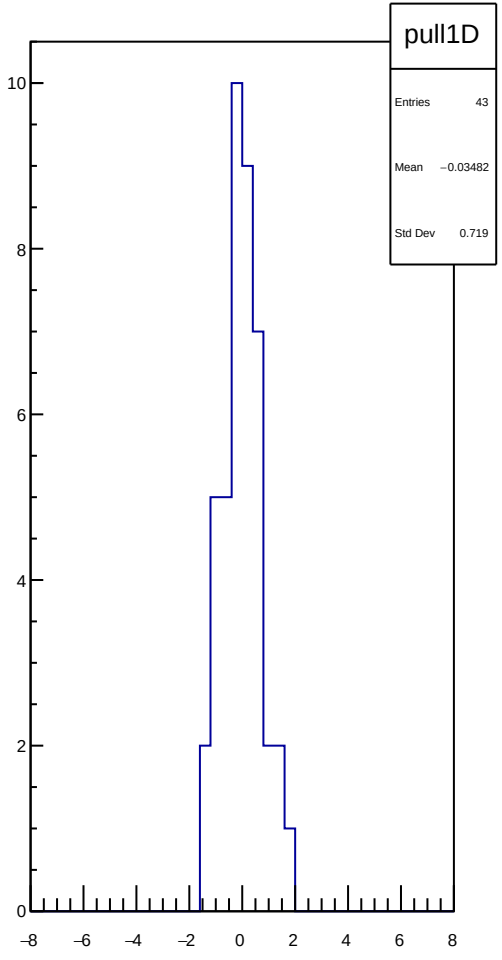

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.43 / 42
p0 −0.384 ± 3.16
pull
Entries 43
Mean −126.5
Std Dev 0
pull1D
Entries 43
Mean 0.03254
Std Dev 0.6714

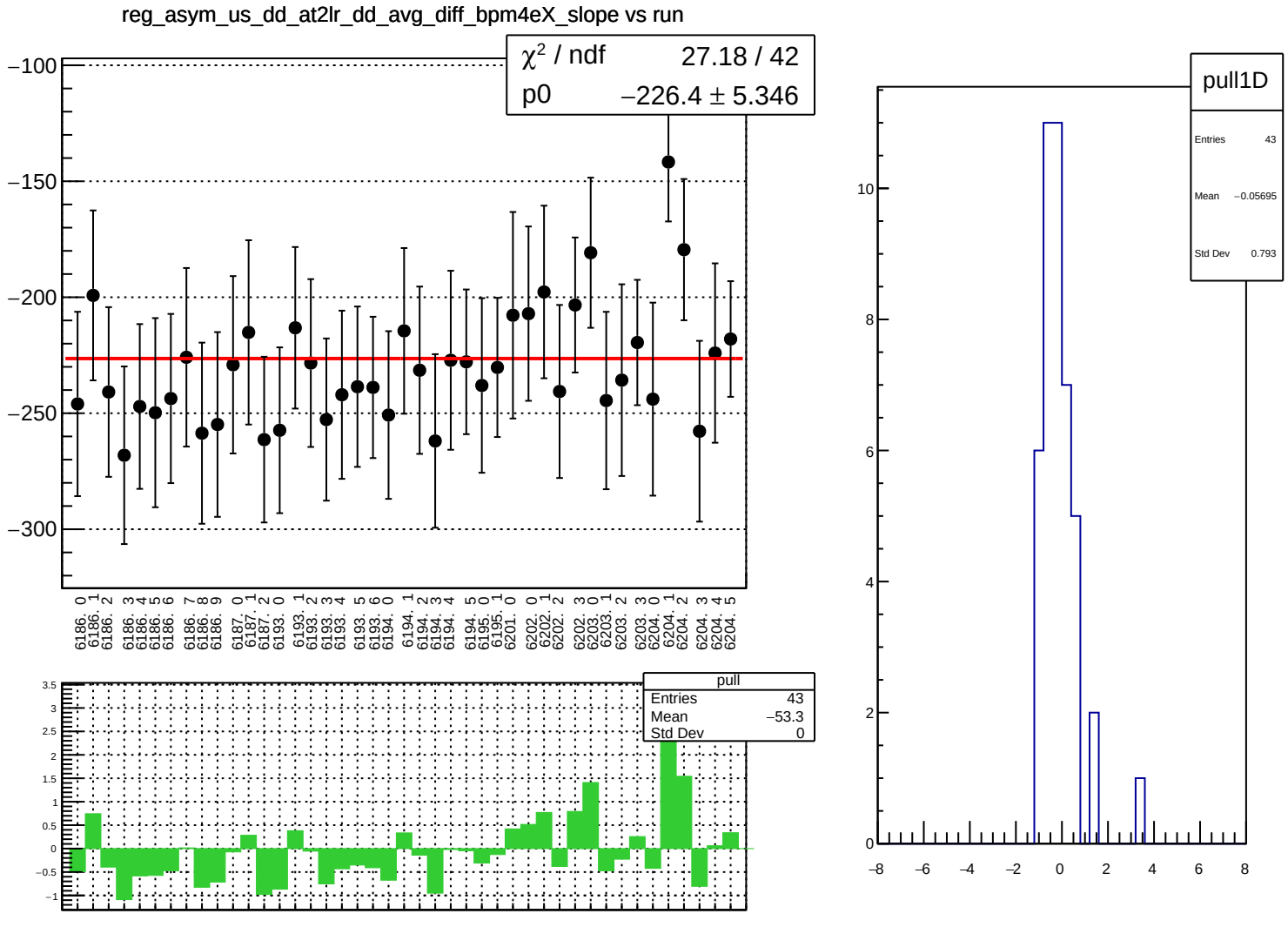

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 44.48 / 42
p0 −4.802 ± 0.2729
pull
Entries 43
Mean −70
Std Dev 0
pull1D
Entries 43
Mean 0.03685
Std Dev 1.016

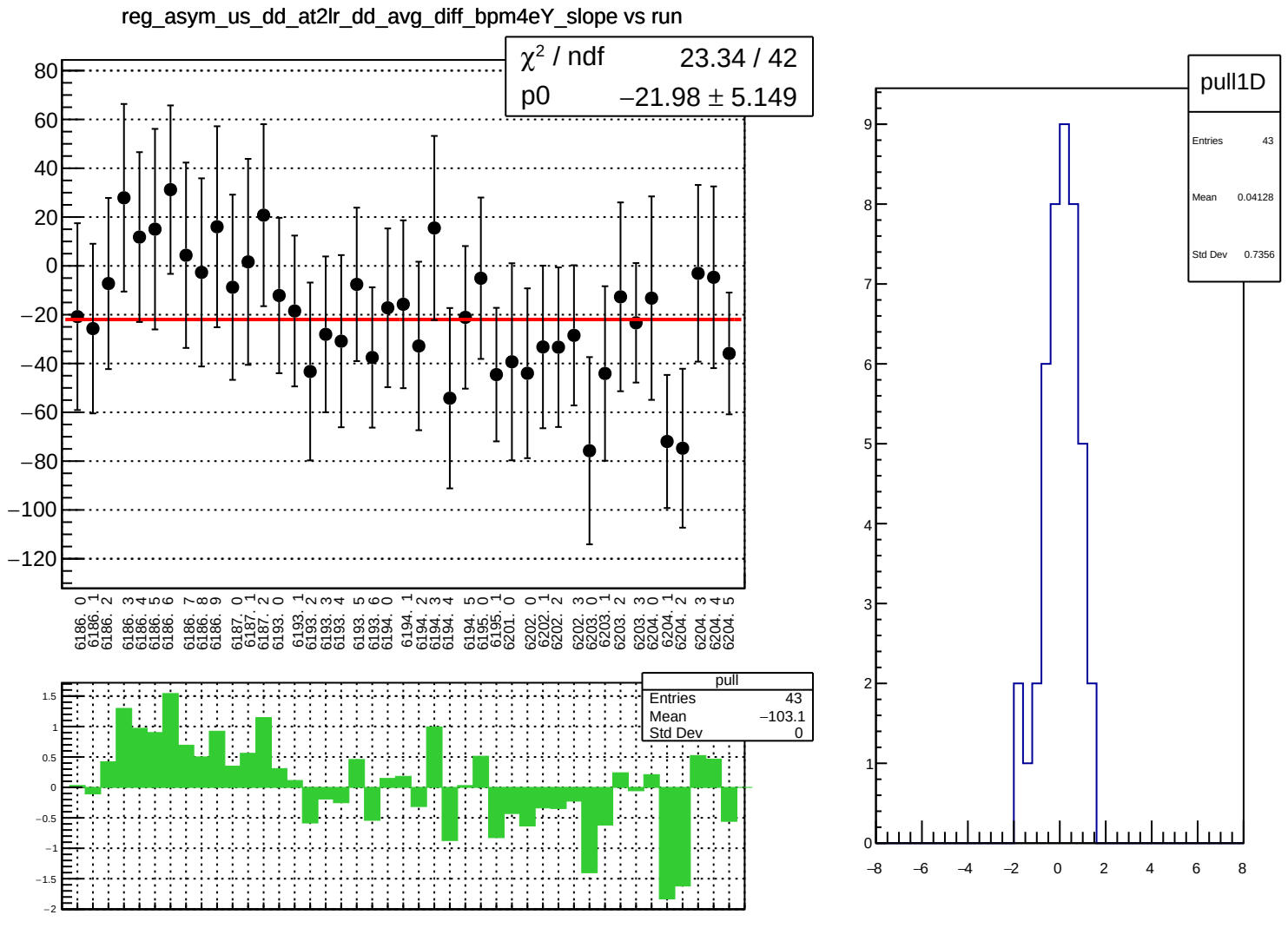

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 26.66 / 42
p0 69.97 ± 4.898
pull
Entries 43
Mean −56.38
Std Dev 0

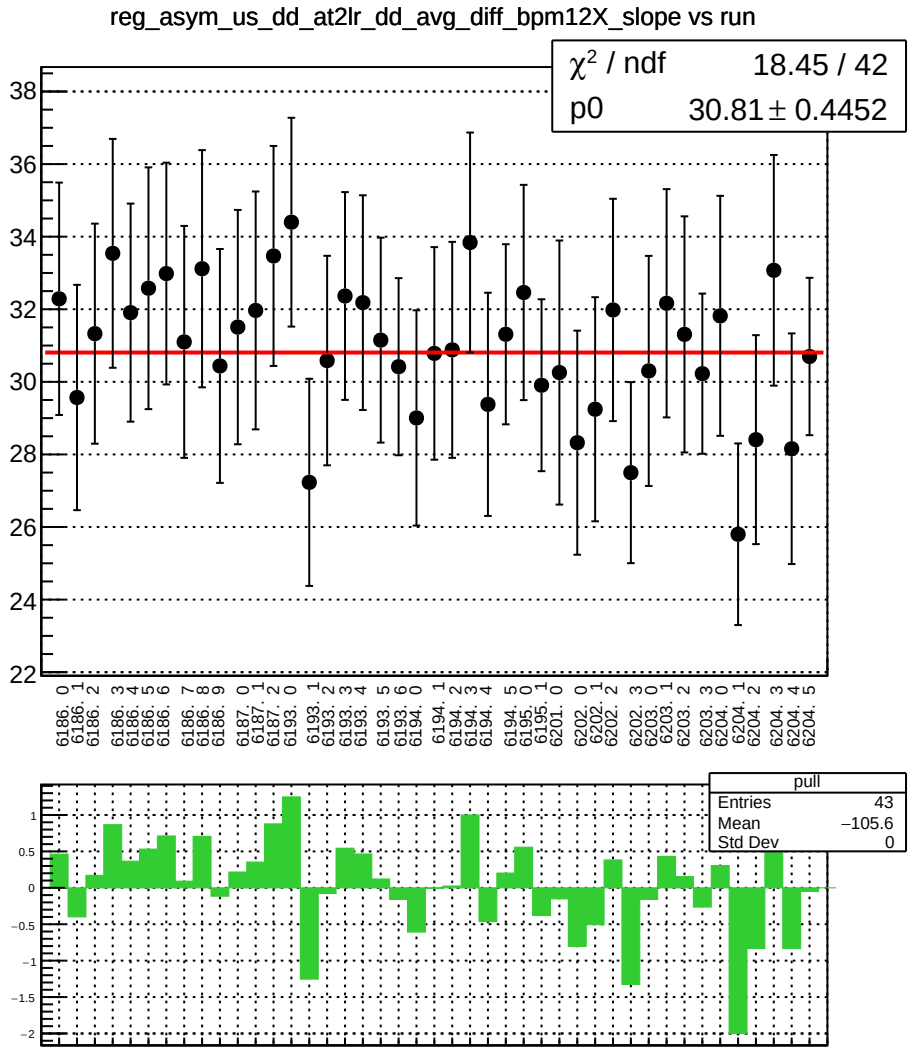

pull1D
Entries 43
Mean 0.05445
Std Dev 0.7855

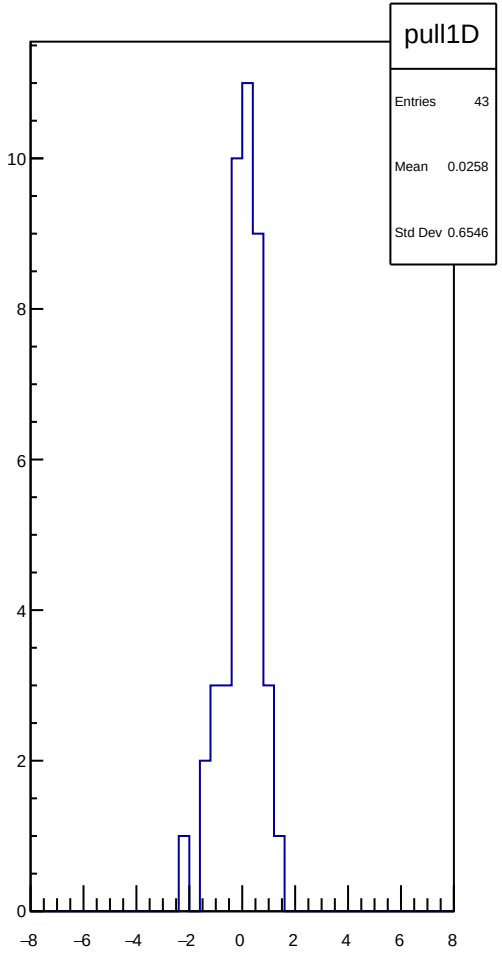

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.28 / 42
p0 5.146 ± 4.573
pull
Entries 43
Mean −121.6
Std Dev 0

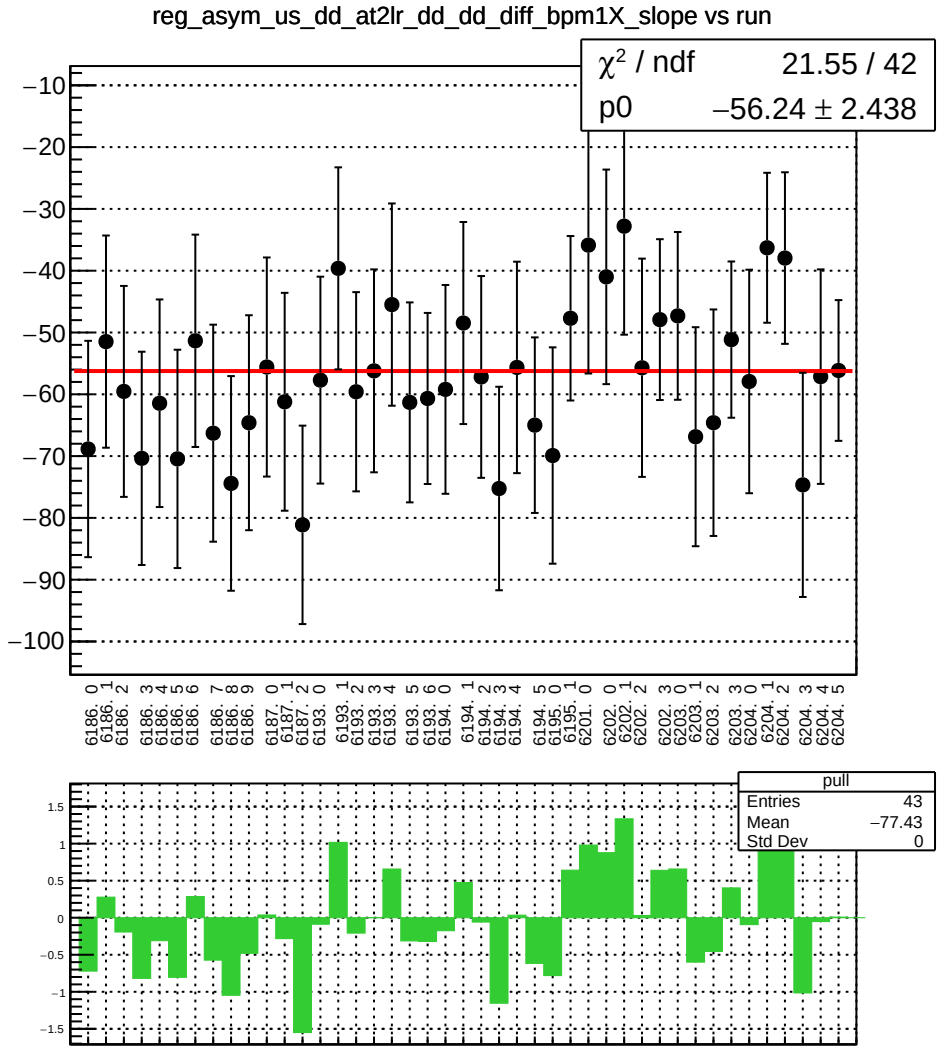

pull1D
Entries 43
Mean −0.03482
Std Dev 0.719

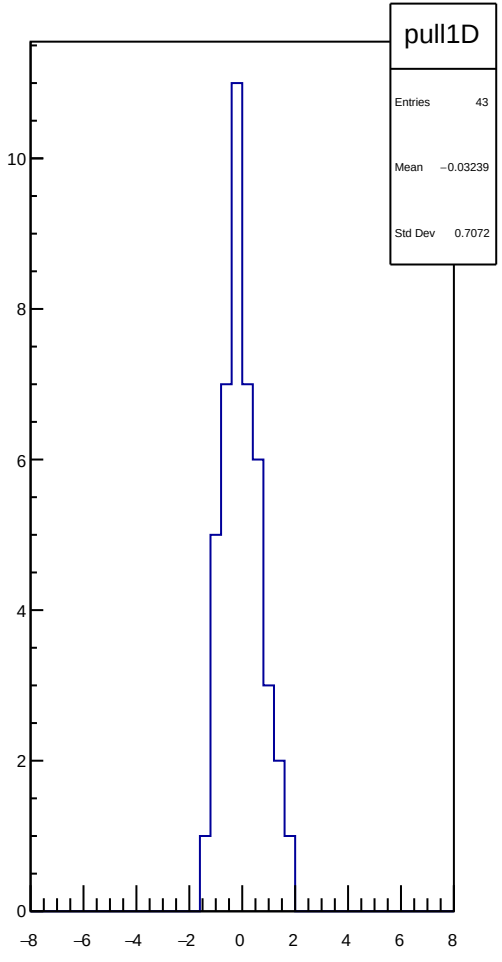

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.18 / 42
p0 −226.4 ± 5.346
−100
−150
−200
−250
−300
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −53.3
Std Dev 0
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 43
Mean −0.05695
Std Dev 0.793
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

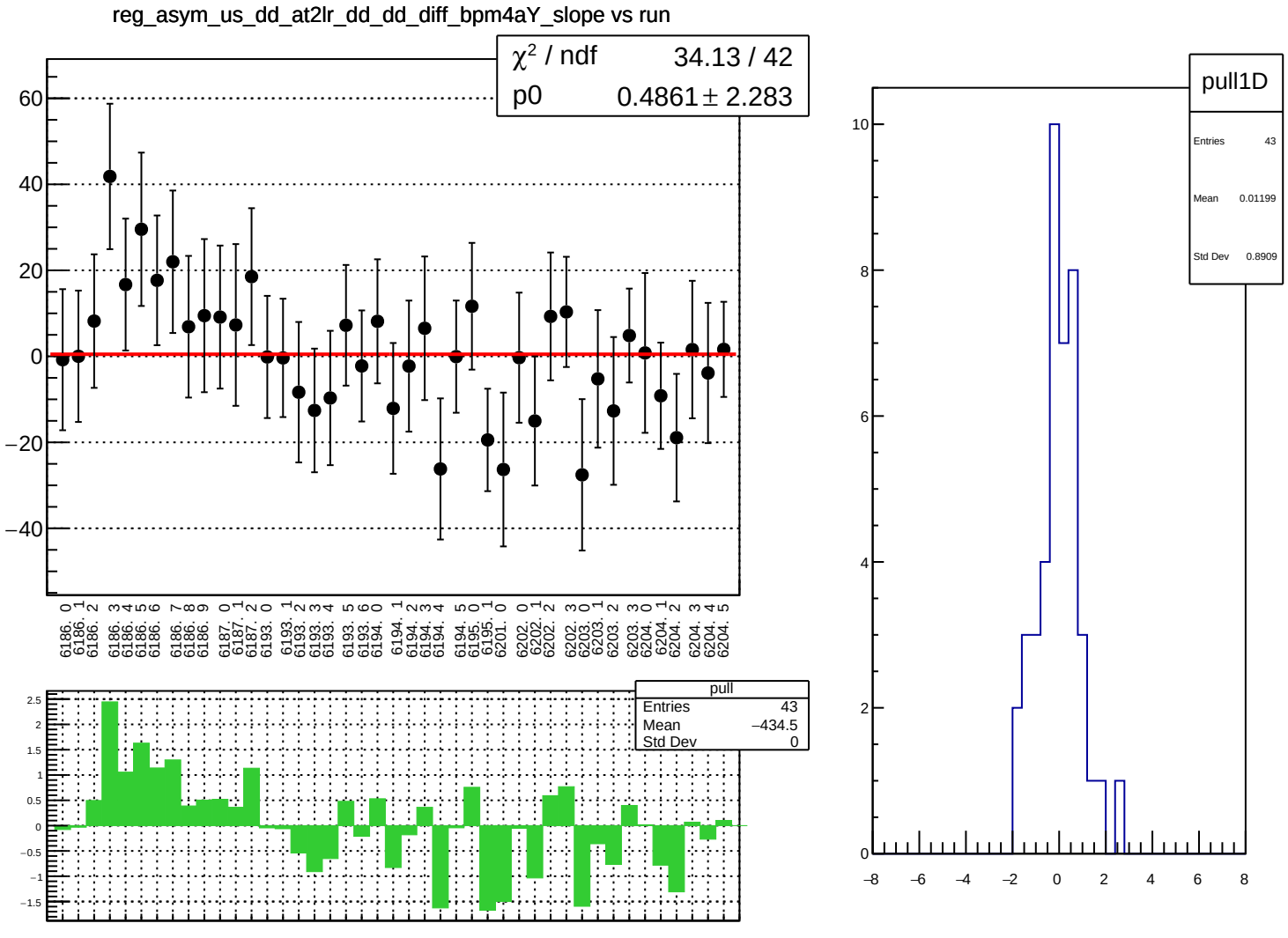

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.34 / 42
p0 −21.98 ± 5.149
pull
Entries 43
Mean −103.1
Std Dev 0
pull1D
Entries 43
Mean 0.04128
Std Dev 0.7356

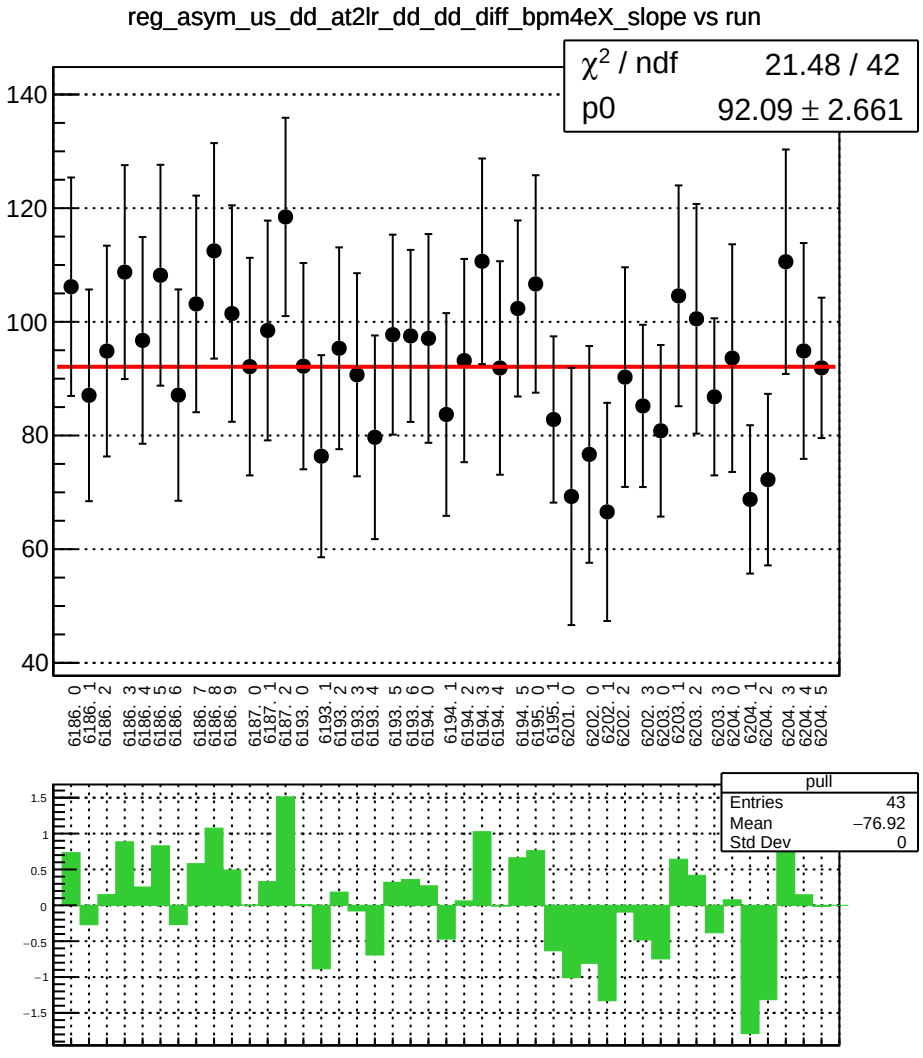

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 18.45 / 42
p0 30.81 ± 0.4452
pull
Entries 43
Mean −105.6
Std Dev 0

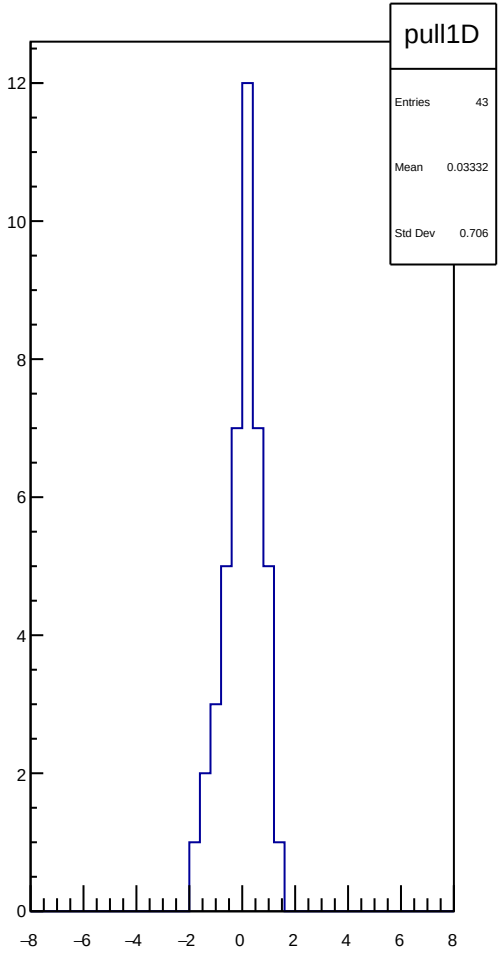

pull1D
Entries 43
Mean 0.0258
Std Dev 0.6546

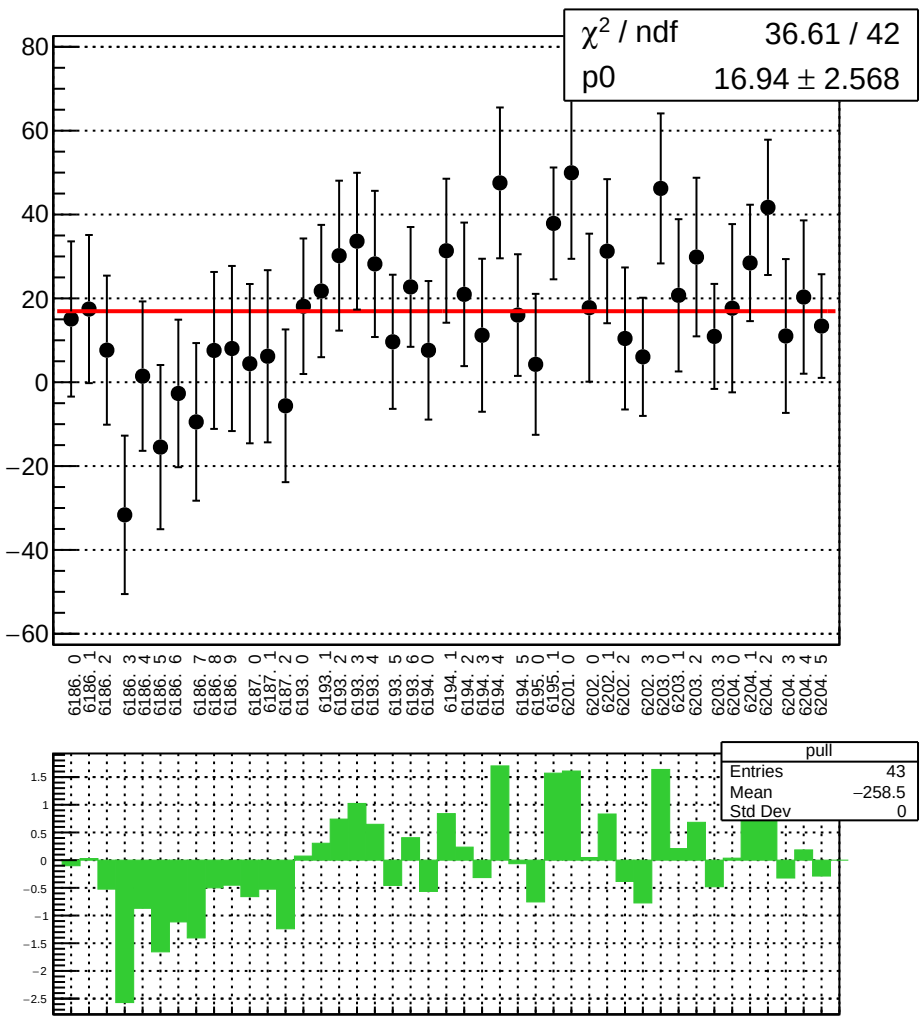

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 21.55 / 42
p0 −56.24 ± 2.438
pull
Entries 43
Mean −77.43
Std Dev 0

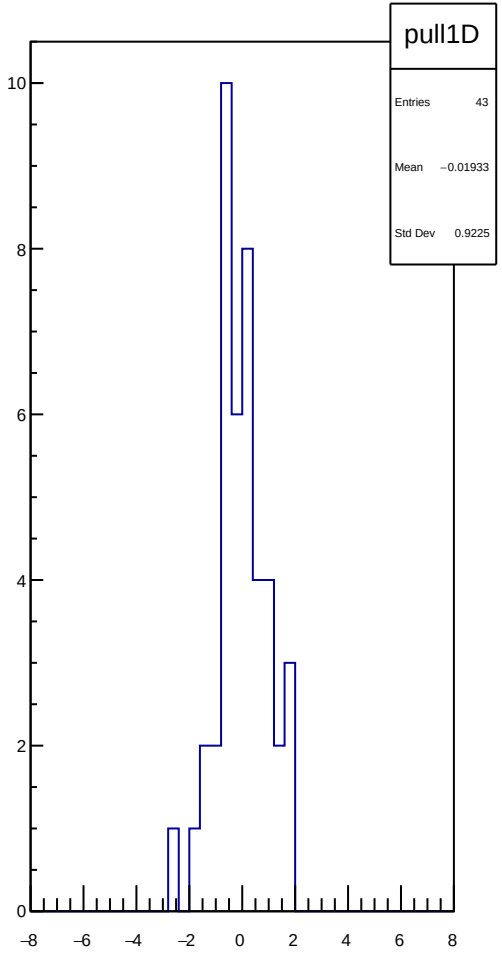

pull1D
Entries 43
Mean −0.03239
Std Dev 0.7072

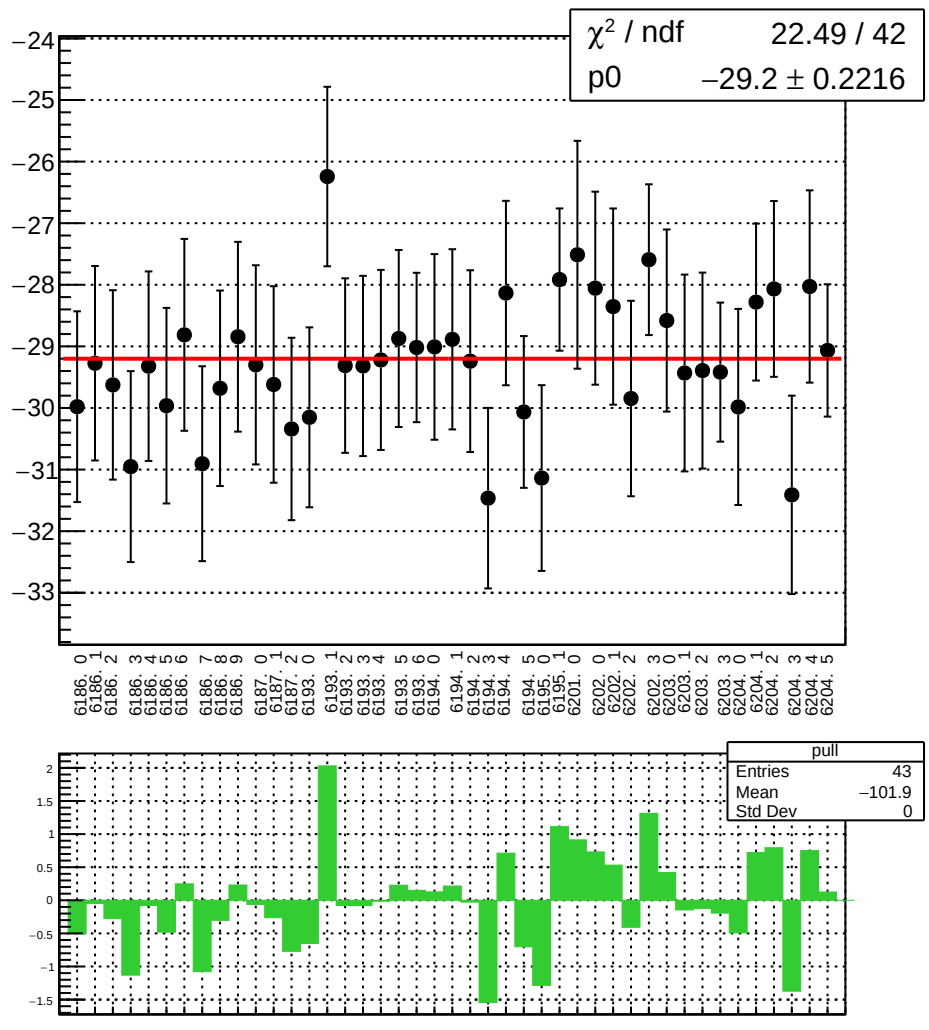

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.13 / 42
p0 0.4861 ± 2.283
pull
Entries 43
Mean −434.5
Std Dev 0
pull1D
Entries 43
Mean 0.01199
Std Dev 0.8909

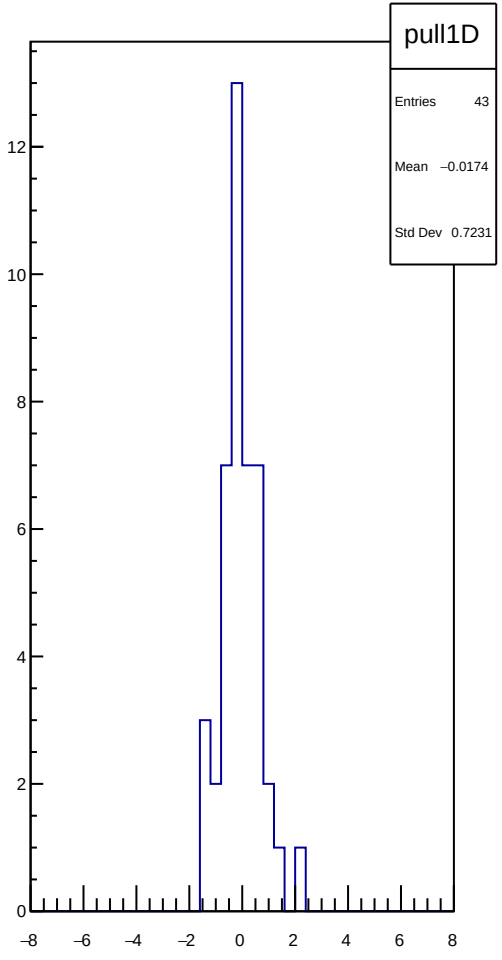

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.48 / 42
p0 92.09 ± 2.661
140
120
100
80
60
40
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −76.92
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

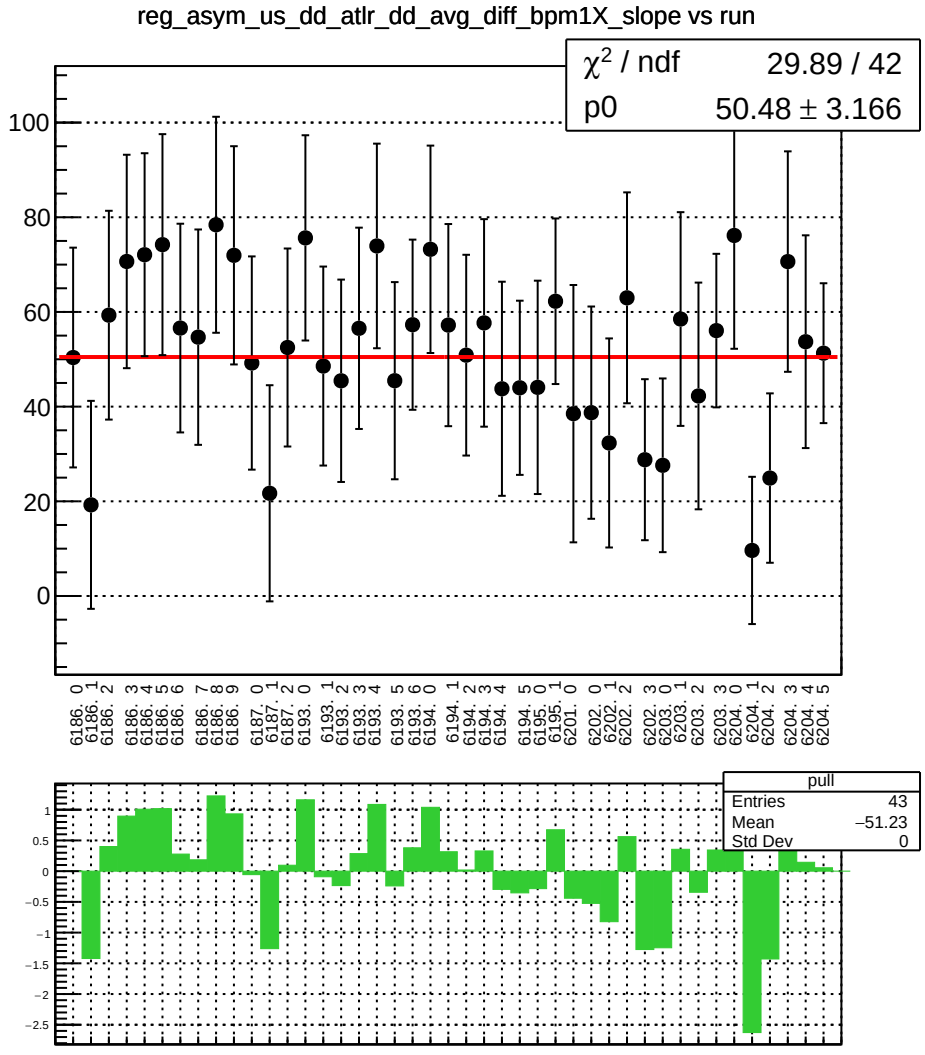

pull1D
Entries 43
Mean 0.03332
Std Dev 0.706
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

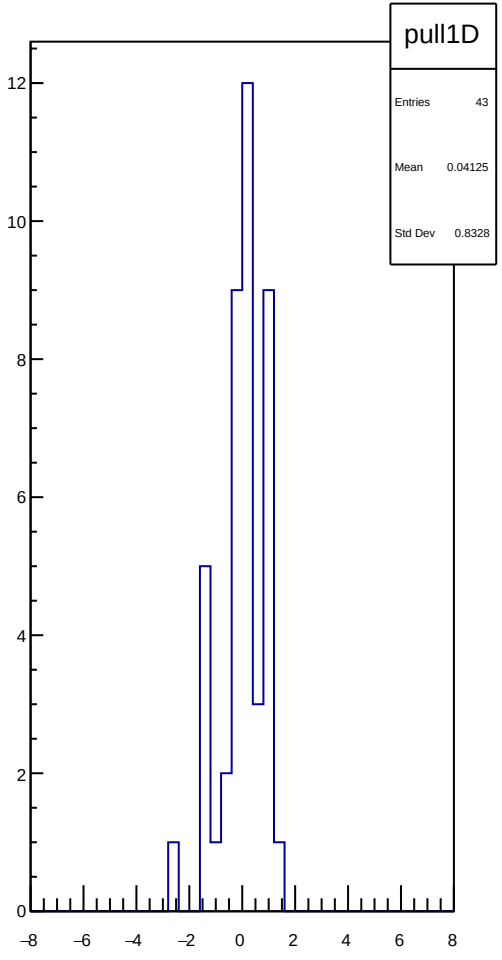

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.61 / 42
p0 16.94 ± 2.568
pull
Entries 43
Mean −258.5
Std Dev 0

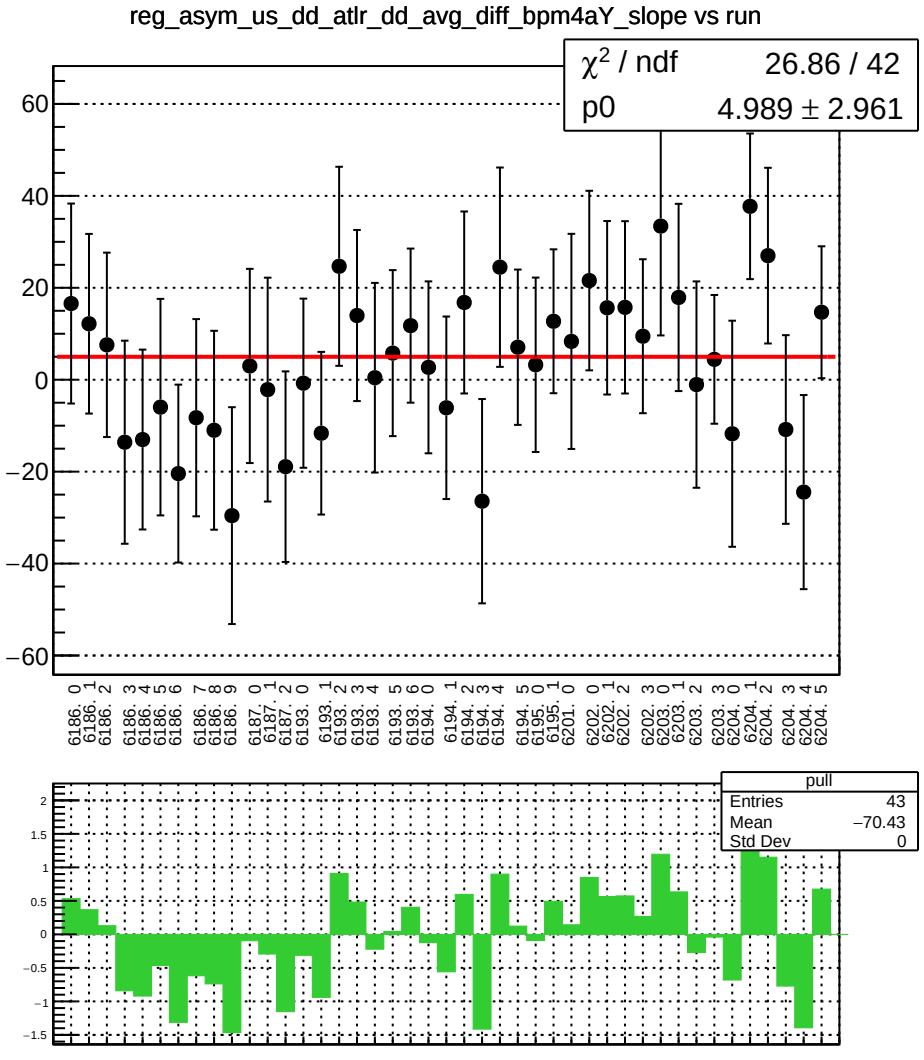

pull1D
Entries 43
Mean −0.01933
Std Dev 0.9225

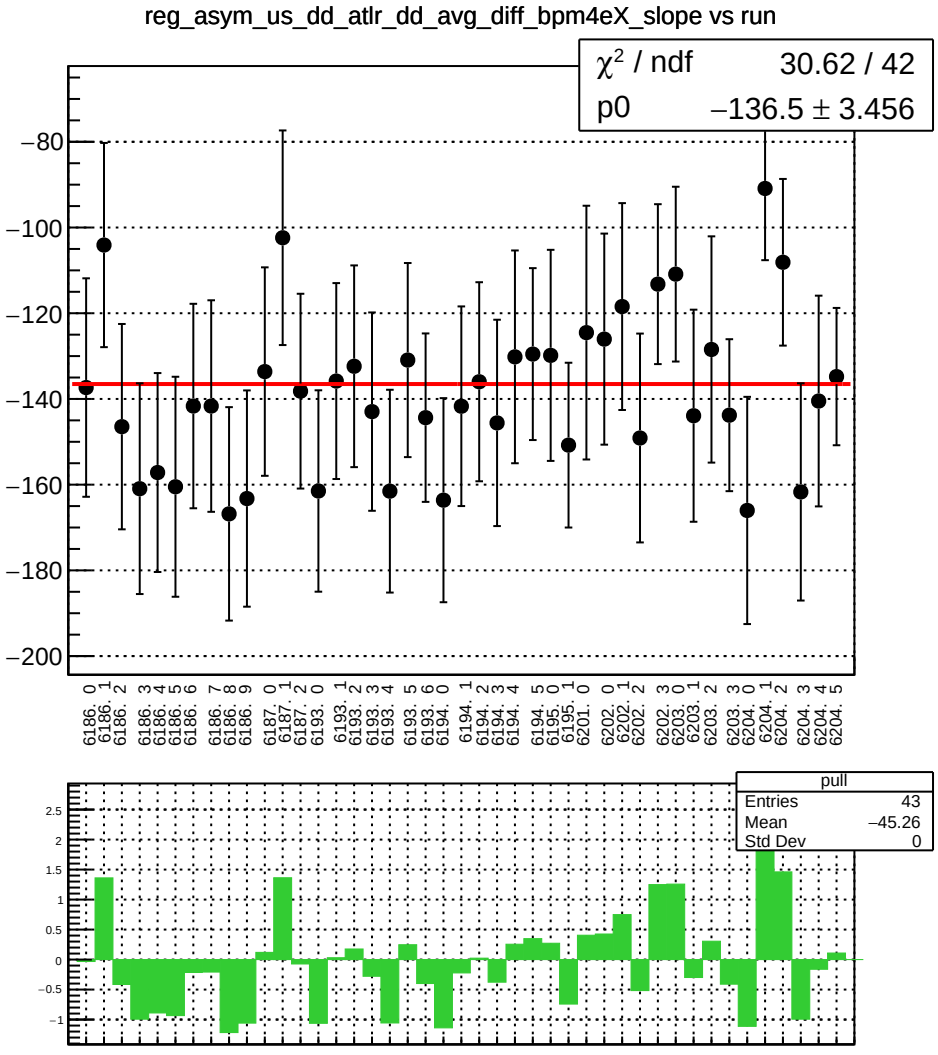

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 22.49 / 42
p0 −29.2 ± 0.2216
pull
Entries 43
Mean −101.9
Std Dev 0

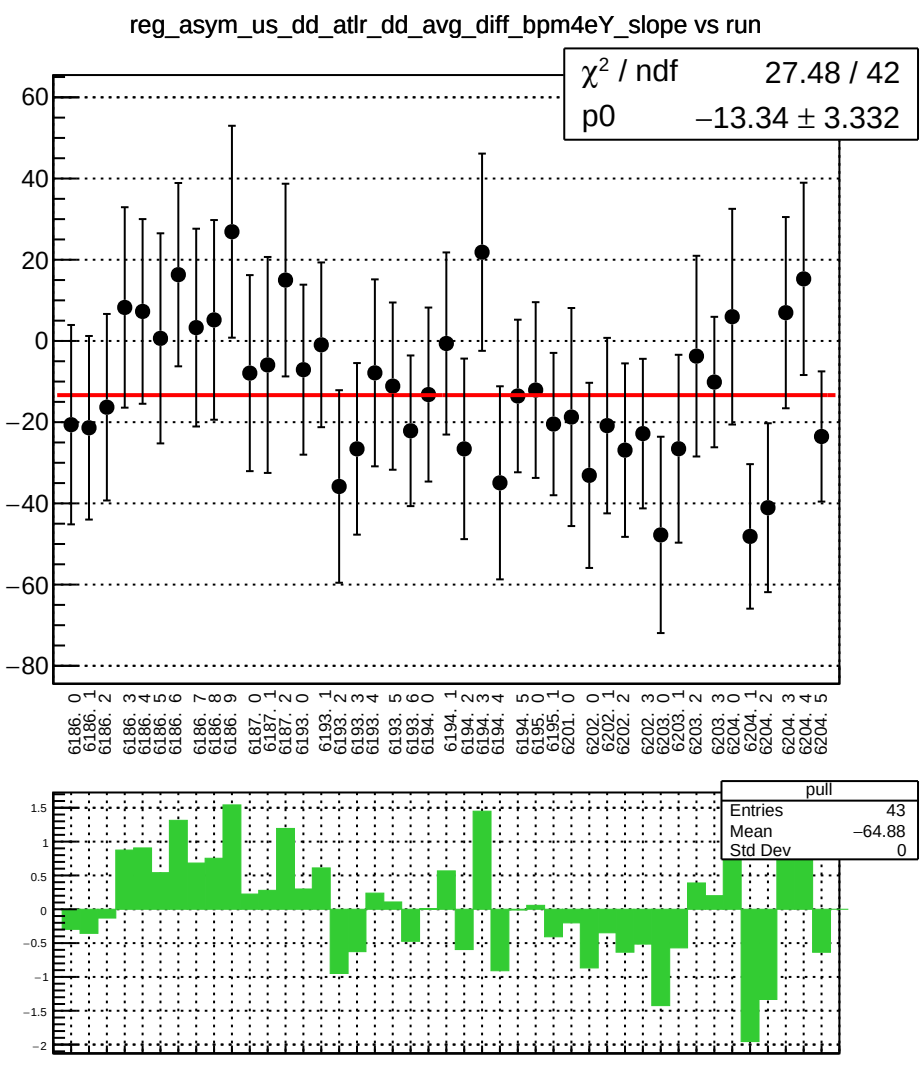

pull1D
Entries 43
Mean −0.0174
Std Dev 0.7231

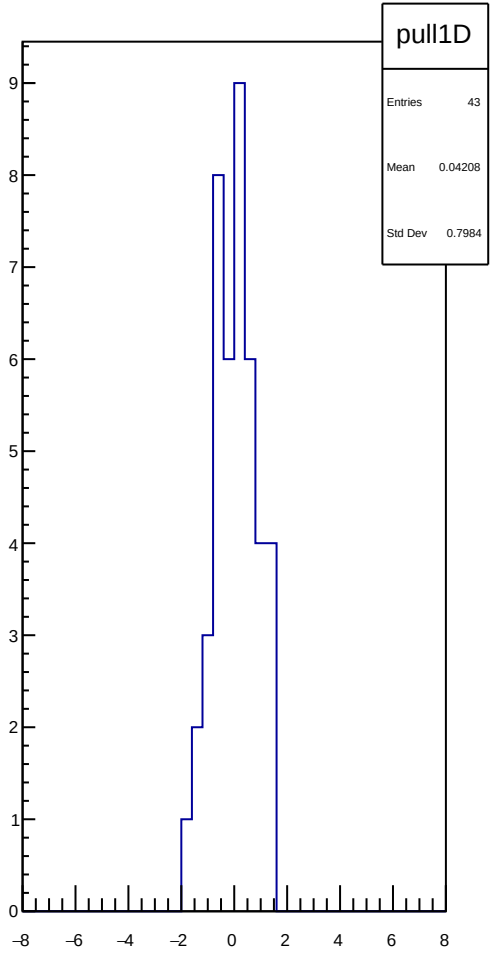

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 29.89 / 42
p0 50.48 ± 3.166
pull
Entries 43
Mean −51.23
Std Dev 0

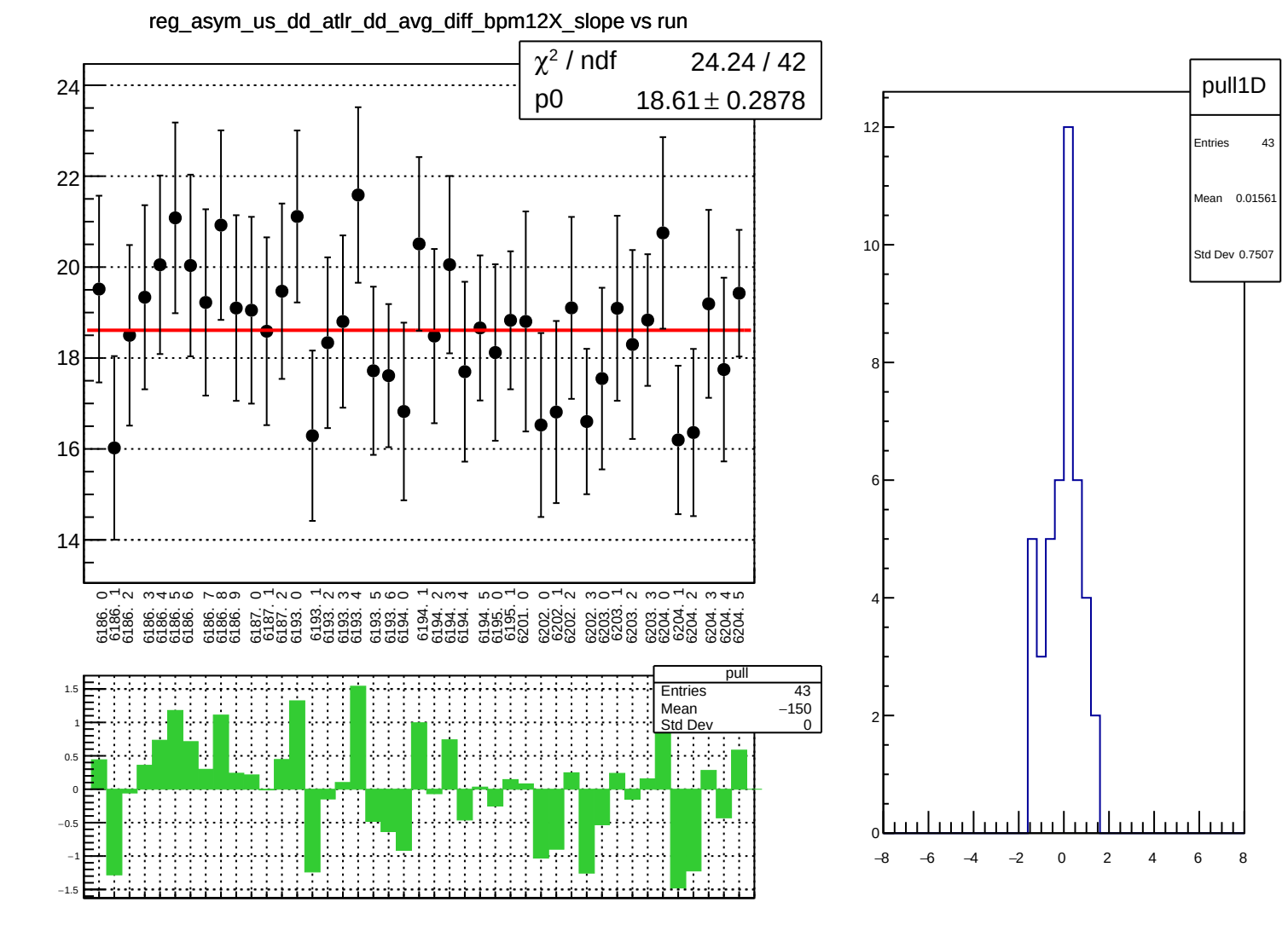

pull1D
Entries 43
Mean 0.04125
Std Dev 0.8328

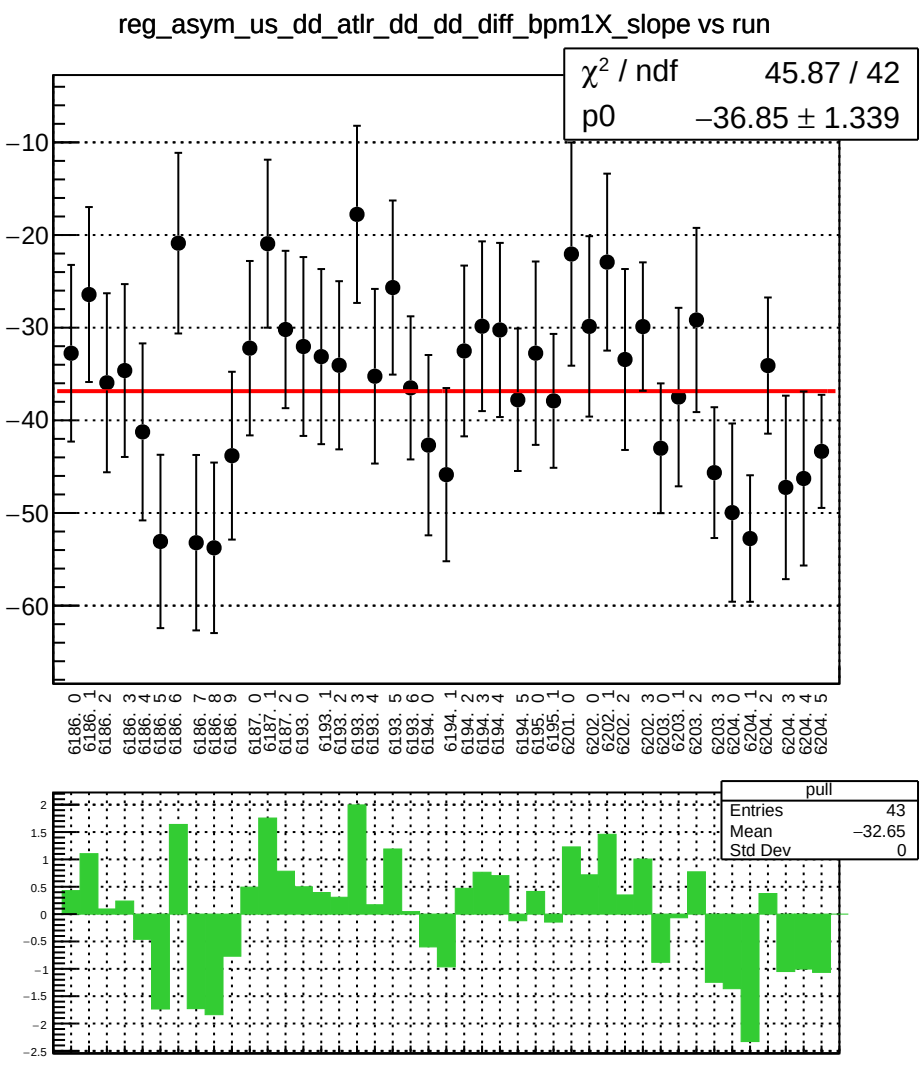

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.86 / 42
p0 4.989 ± 2.961
pull
Entries 43
Mean −70.43
Std Dev 0
pull1D
Entries 43
Mean −0.03749
Std Dev 0.7894

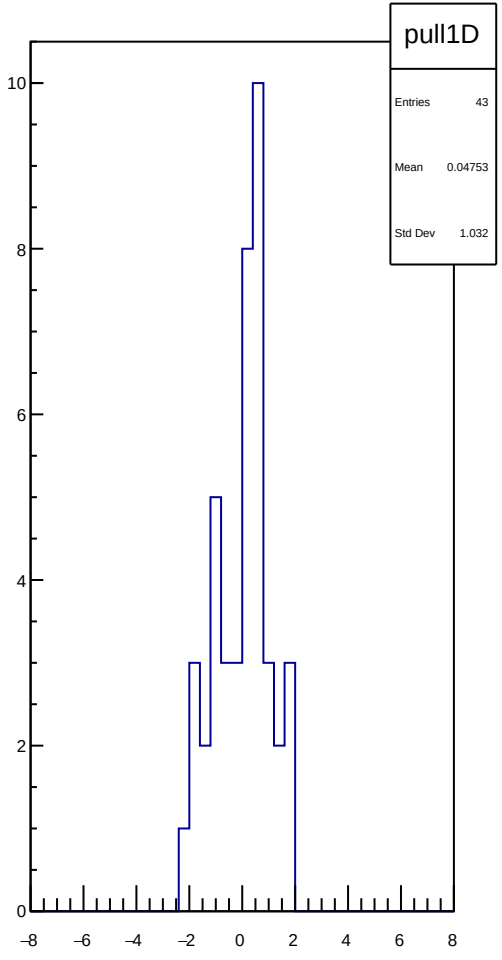

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.62 / 42
p0 −136.5 ± 3.456
pull
Entries 43
Mean −45.26
Std Dev 0
pull1D
Entries 43
Mean −0.04458
Std Dev 0.8427

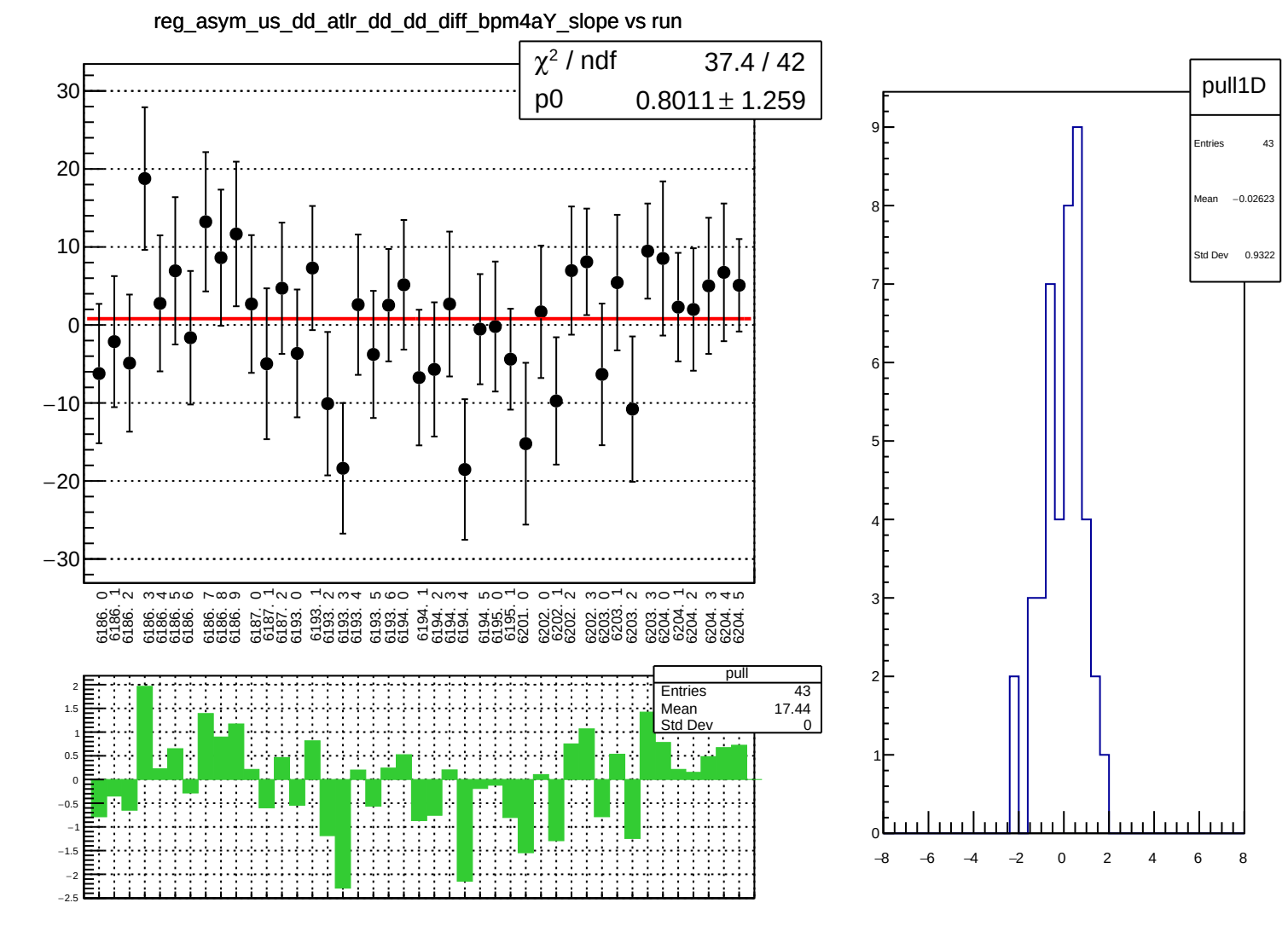

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.48 / 42
p0 −13.34 ± 3.332
pull
Entries 43
Mean −64.88
Std Dev 0

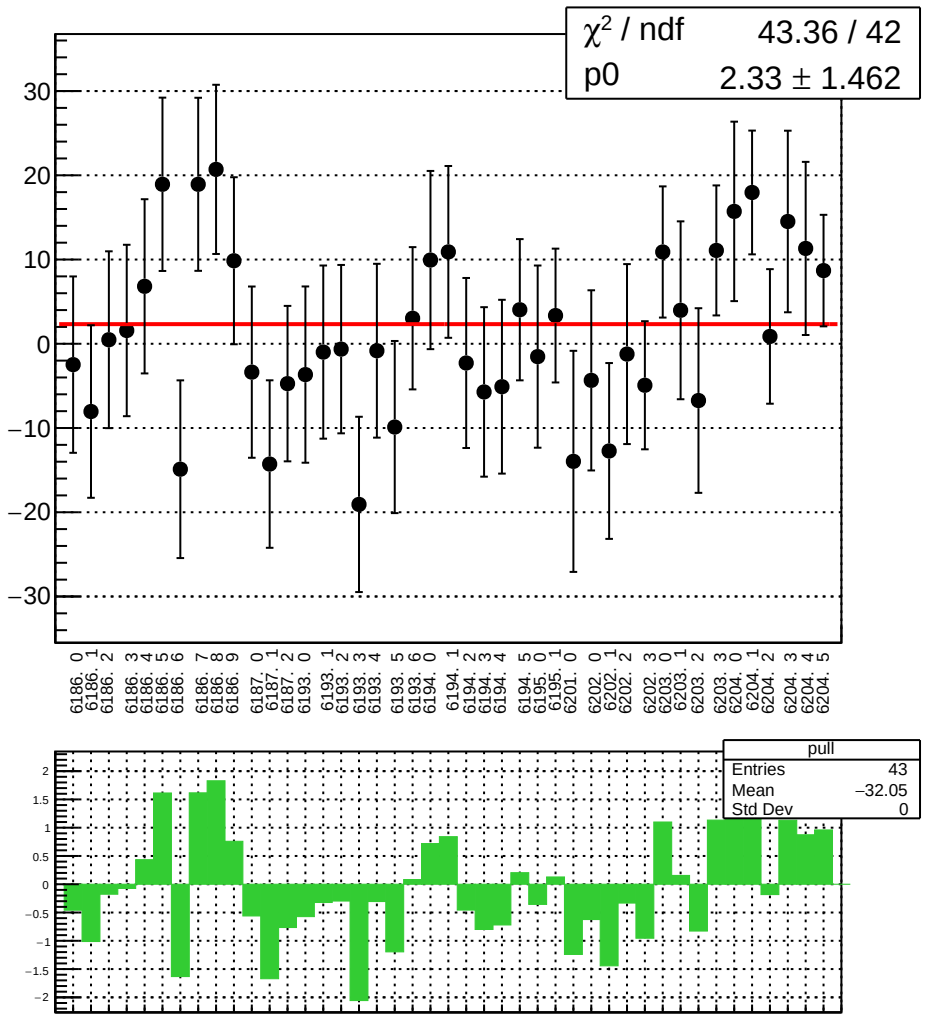

pull1D
Entries 43
Mean 0.04208
Std Dev 0.7984

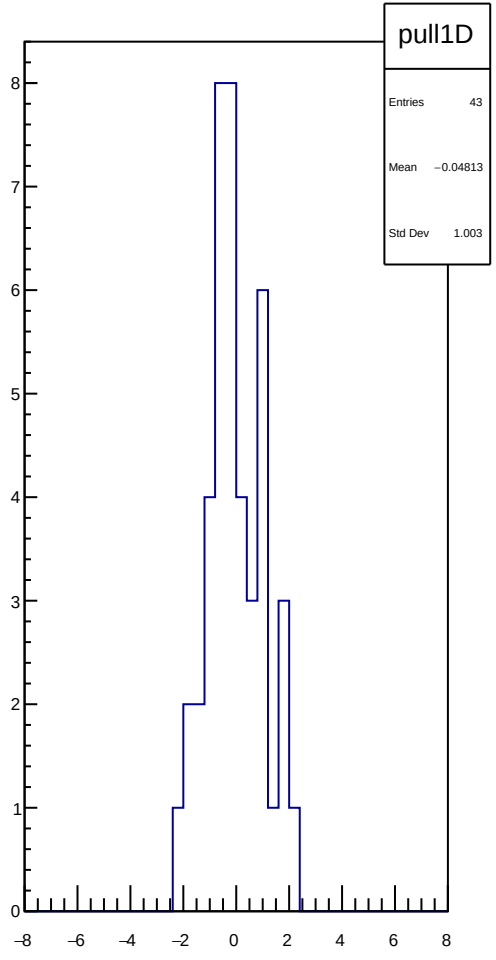

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 24.24 / 42
p0 18.61 ± 0.2878
pull
Entries 43
Mean −150
Std Dev 0
pull1D
Entries 43
Mean 0.01561
Std Dev 0.7507

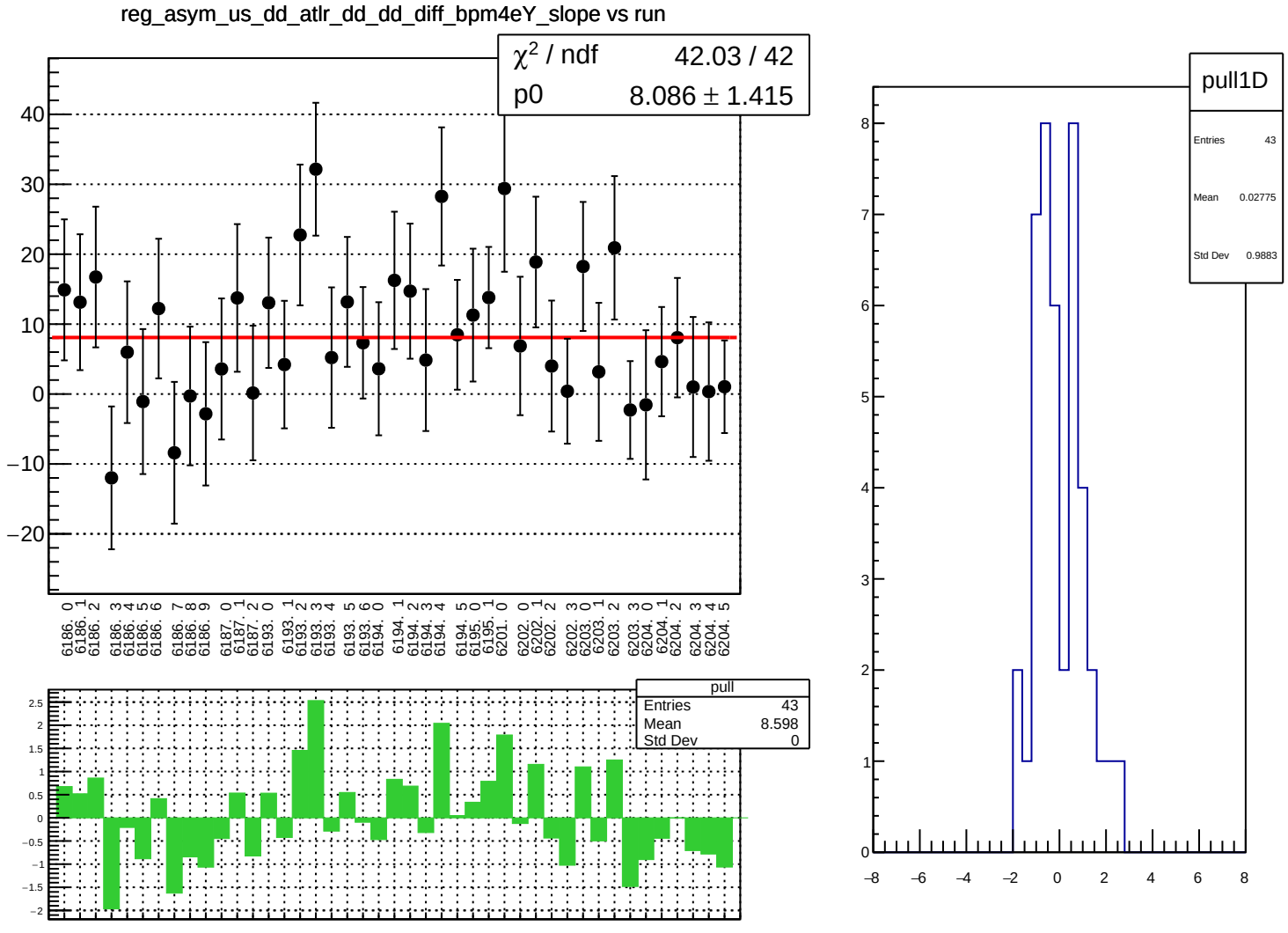

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 45.87 / 42
p0 −36.85 ± 1.339
−10
−20
−30
−40
−50
−60
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −32.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

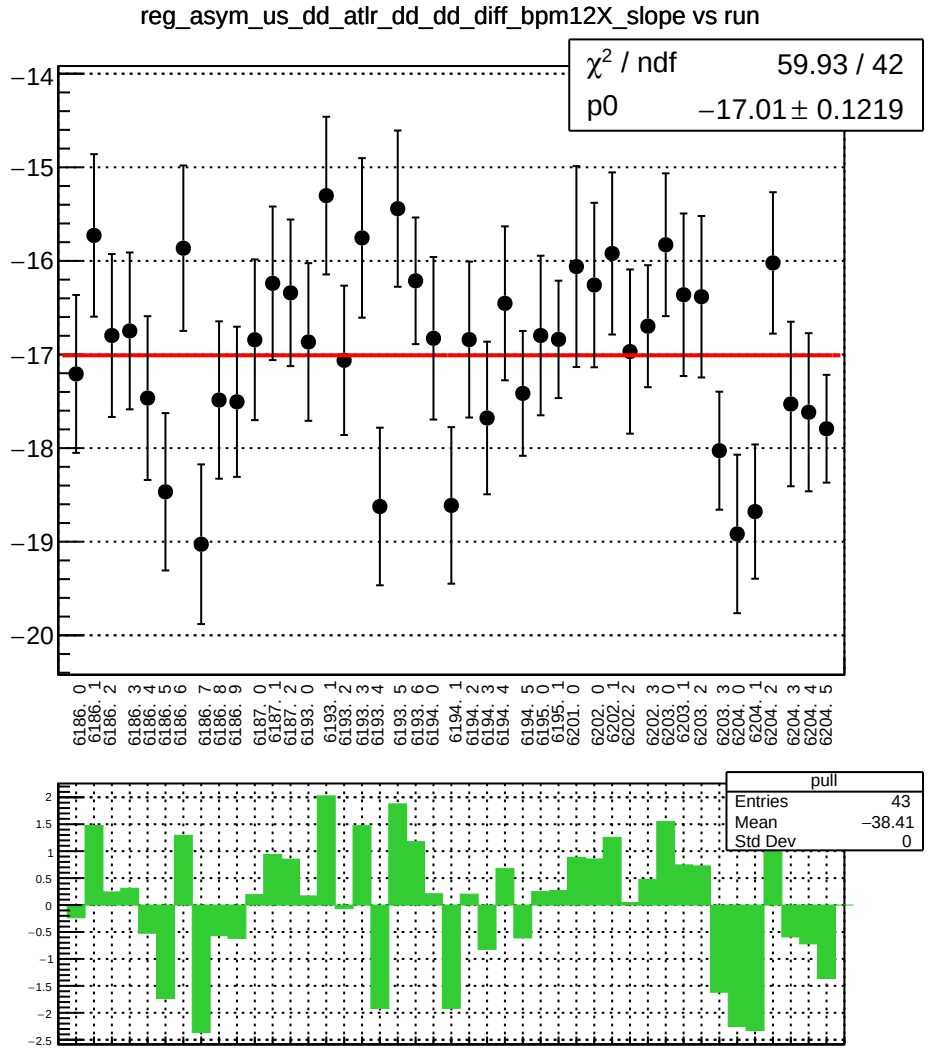

pull1D
Entries 43
Mean 0.04753
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

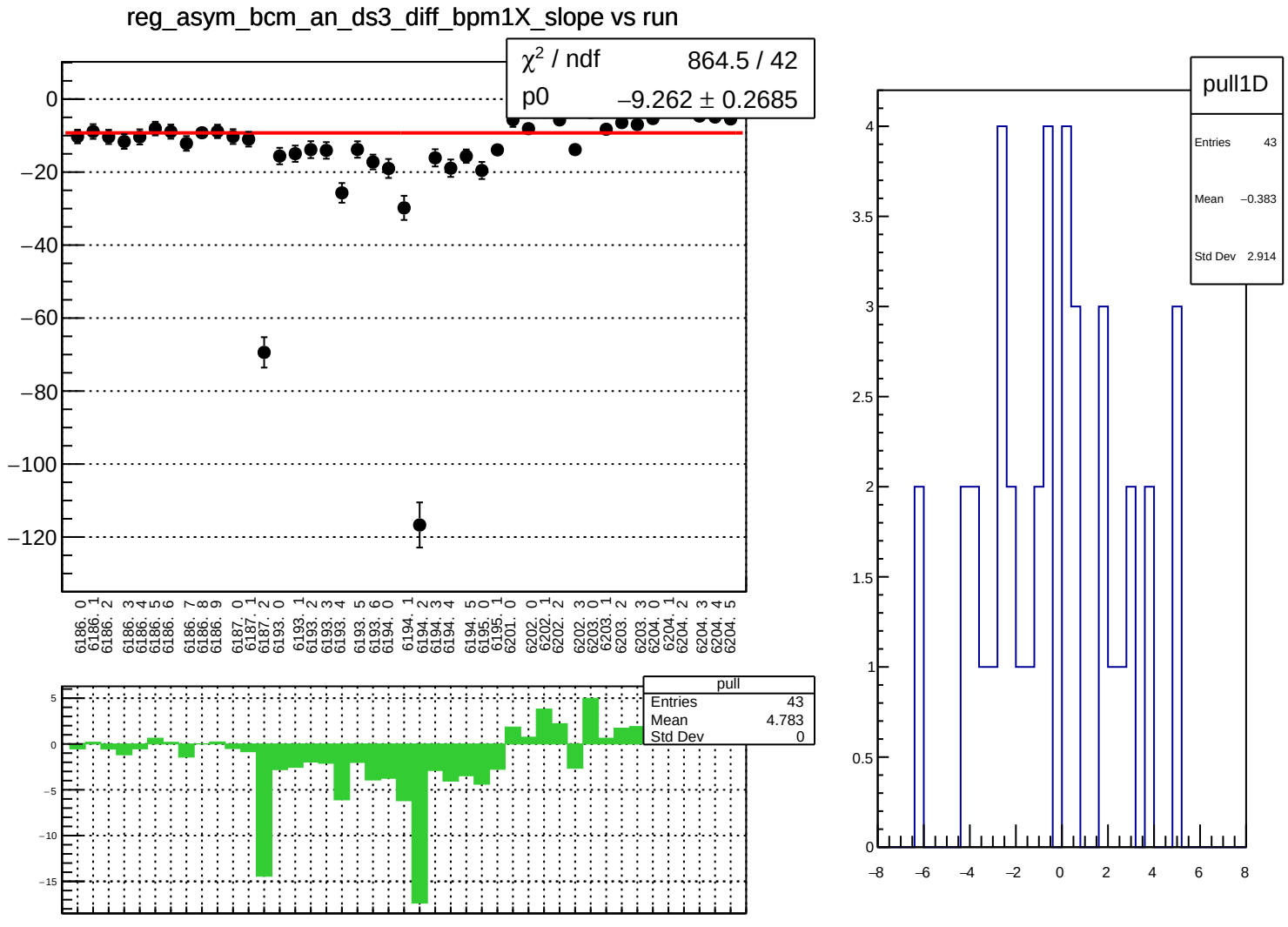

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.4 / 42
p0 0.8011 ± 1.259
pull
Entries 43
Mean 17.44
Std Dev 0
pull1D
Entries 43
Mean −0.02623
Std Dev 0.9322

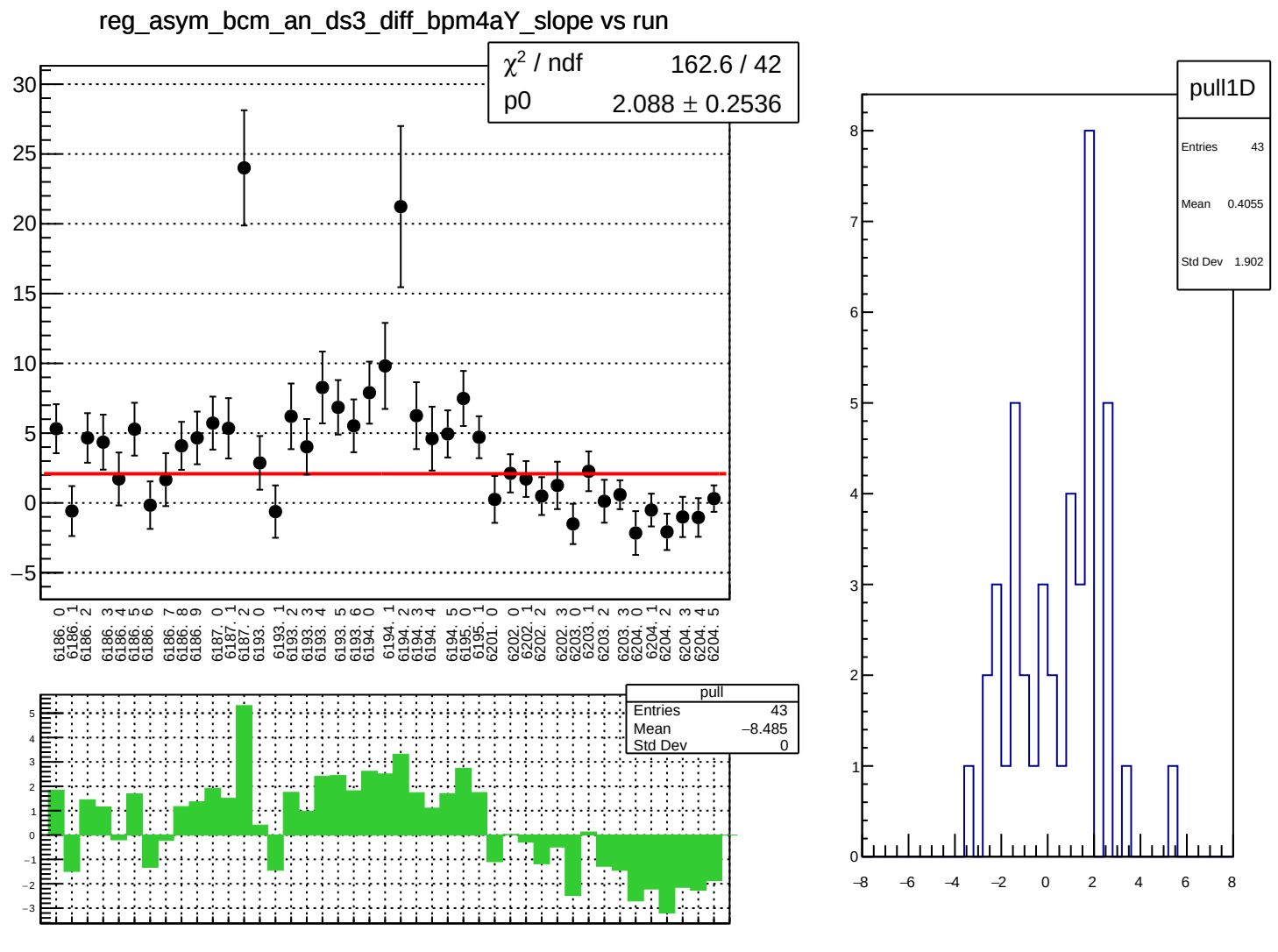

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.36 / 42
p0 2.33 ± 1.462
pull
Entries 43
Mean −32.05
Std Dev 0

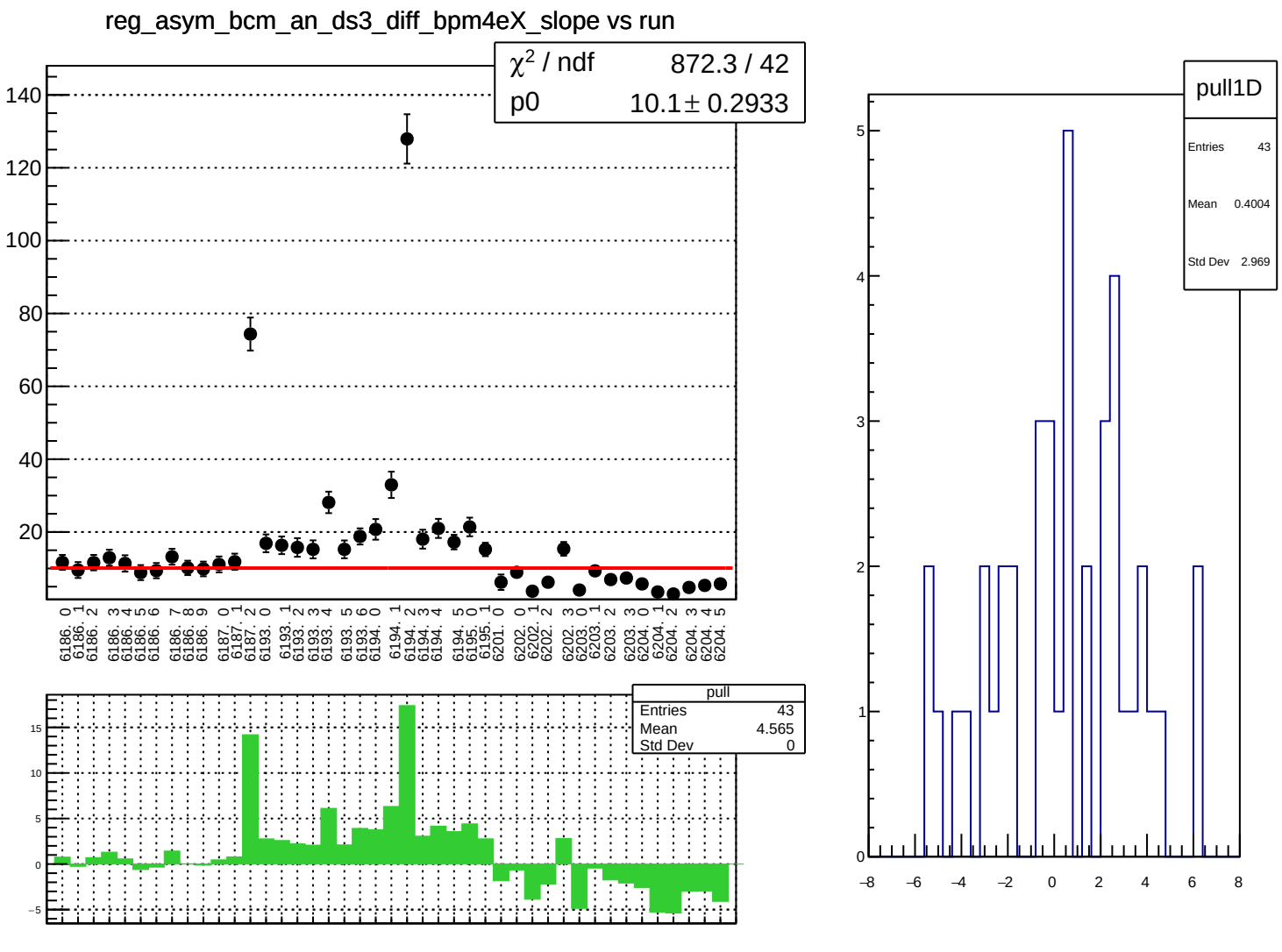

pull1D
Entries 43
Mean −0.04813
Std Dev 1.003

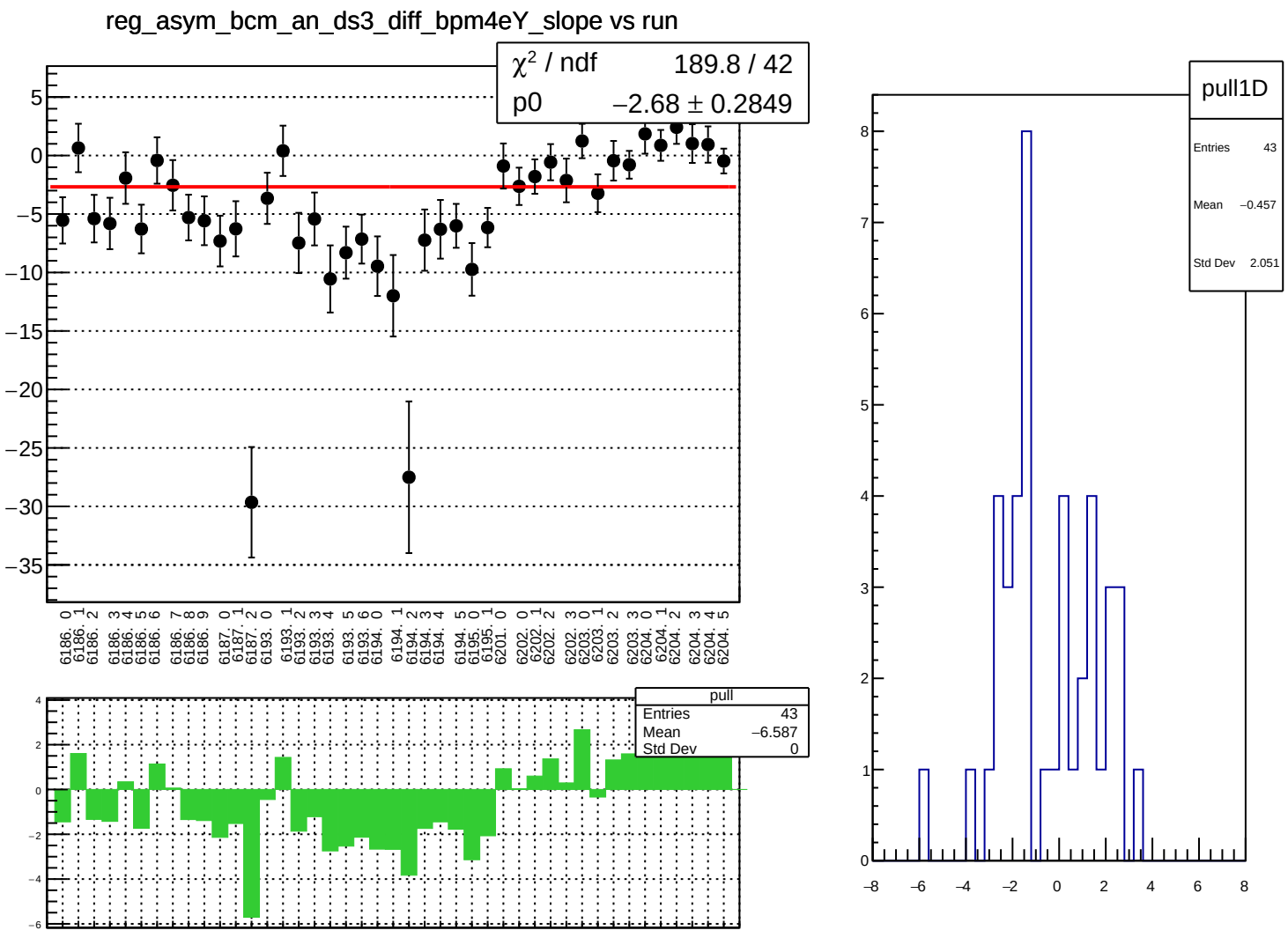

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.03 / 42
p0 8.086 ± 1.415
pull
Entries 43
Mean 8.598
Std Dev 0
pull1D
Entries 43
Mean 0.02775
Std Dev 0.9883

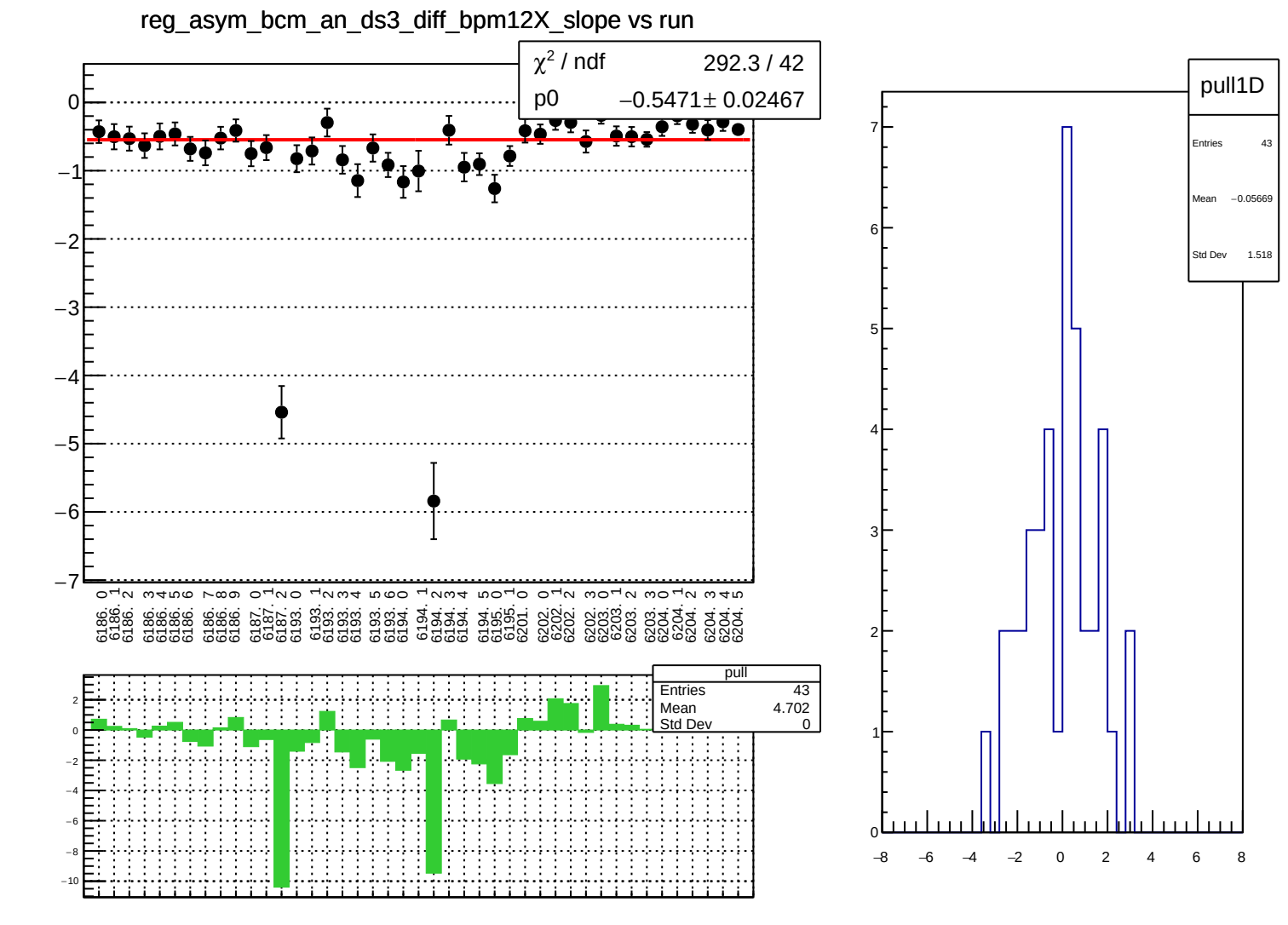

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 59.93 / 42
p0 −17.01 ± 0.1219
−14
−15
−16
−17
−18
−19
−20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −38.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 43
Mean 0.02833
Std Dev 1.18
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

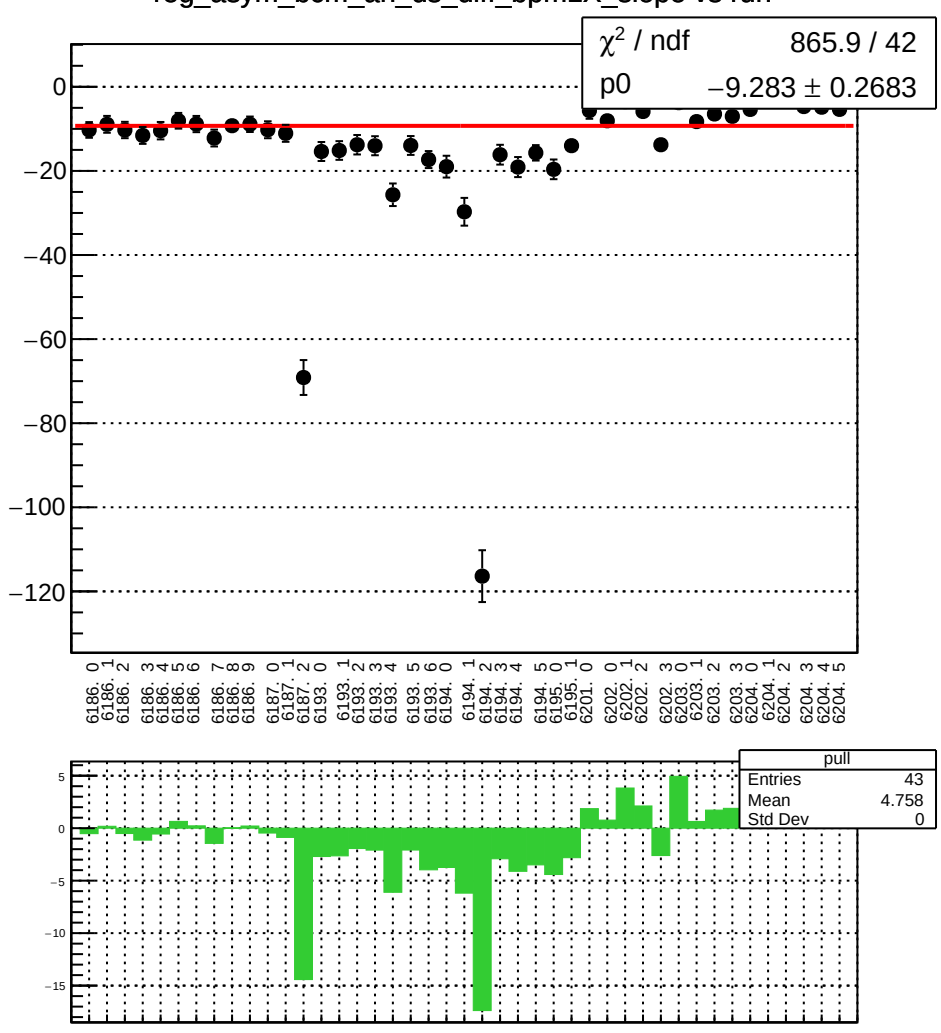

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 864.5 / 42
p0 −9.262 ± 0.2685
0
−20
−40
−60
−80
−100
−120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.783
Std Dev 0
5
0
−5
−10
−15
pull1D
Entries 43
Mean −0.383
Std Dev 2.914
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

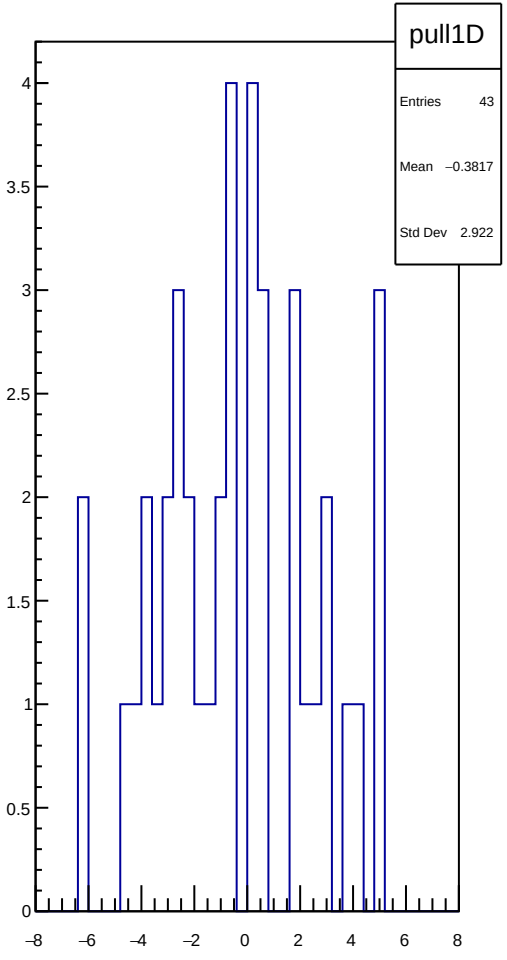

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 162.6 / 42
p0 2.088 ± 0.2536
pull
Entries 43
Mean −8.485
Std Dev 0
pull1D
Entries 43
Mean 0.4055
Std Dev 1.902

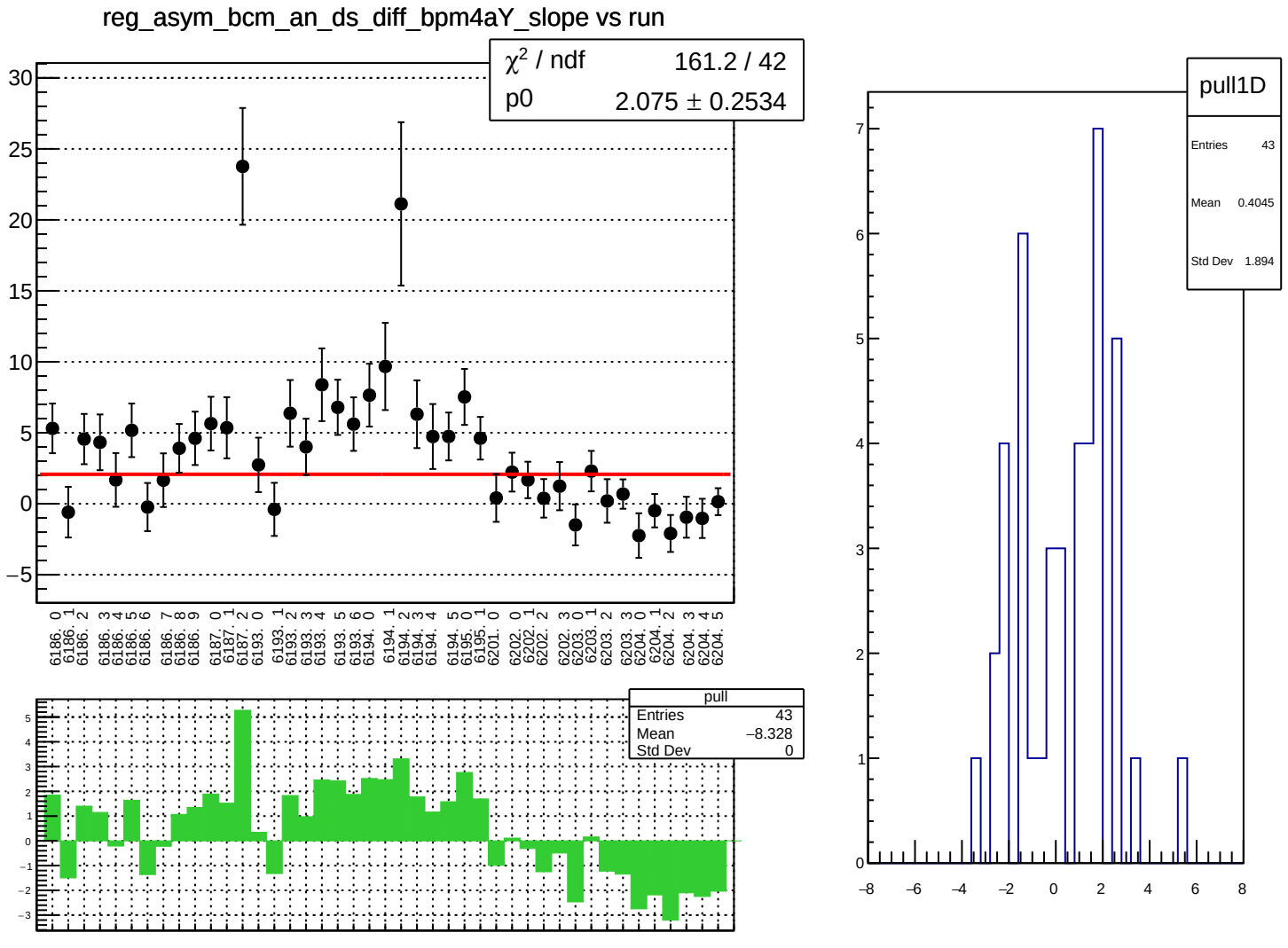

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 872.3 / 42
p0 10.1 ± 0.2933
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.565
Std Dev 0
15
10
5
0
−5
pull1D
Entries 43
Mean 0.4004
Std Dev 2.969
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

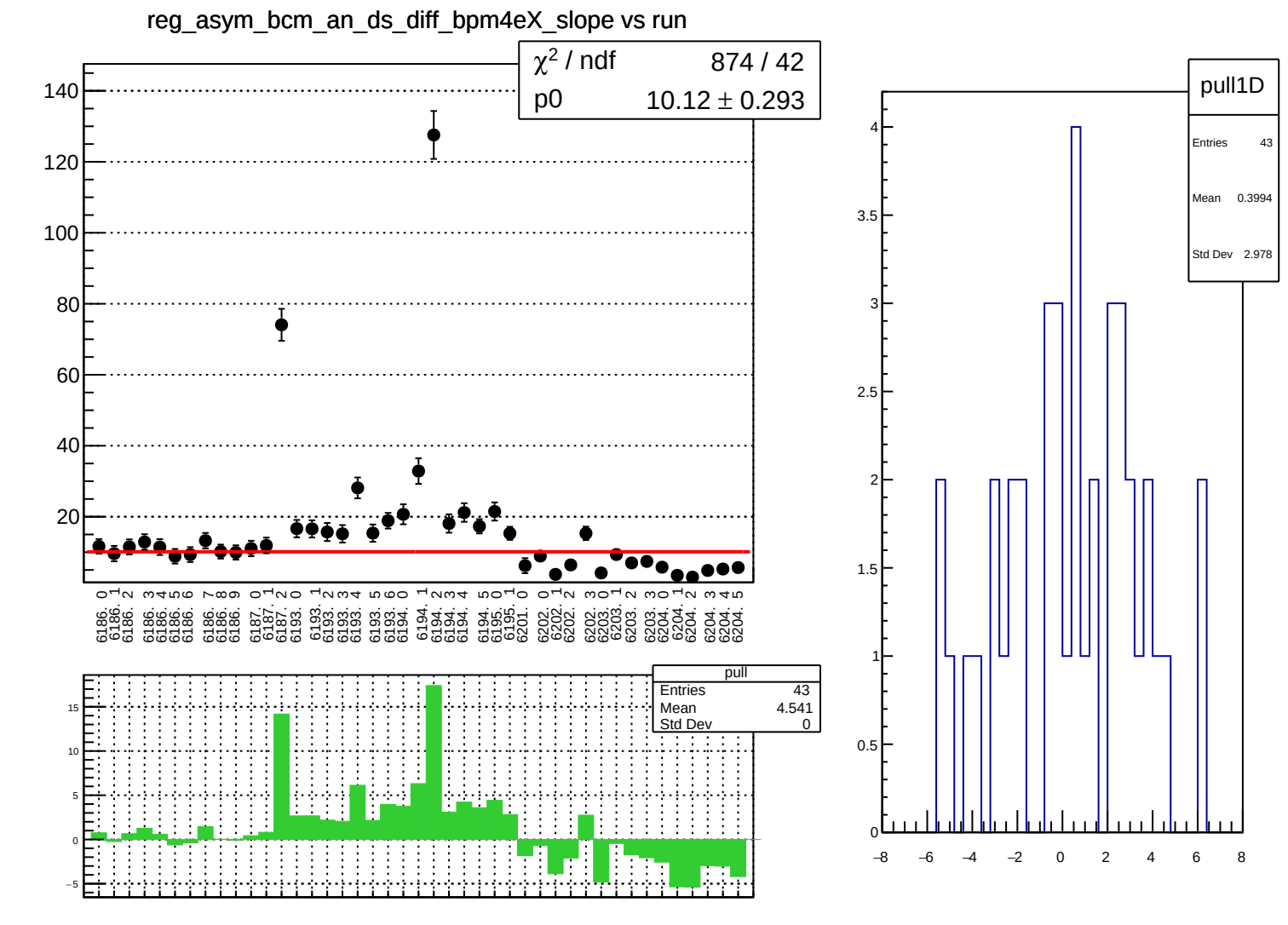

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 189.8 / 42
p0 −2.68 ± 0.2849
pull
Entries 43
Mean −6.587
Std Dev 0
pull1D
Entries 43
Mean −0.457
Std Dev 2.051

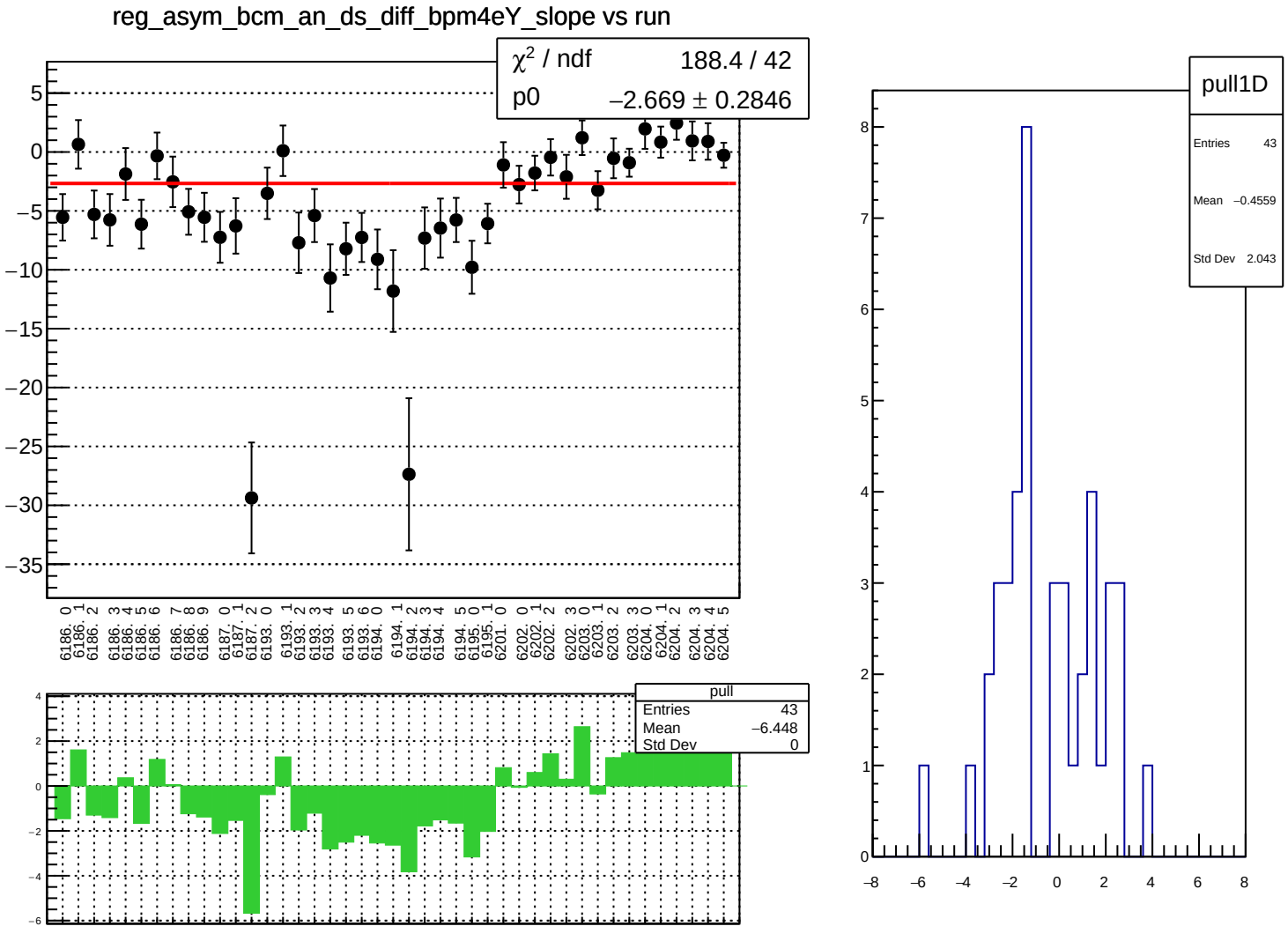

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 292.3 / 42
p0 −0.5471± 0.02467
pull
Entries 43
Mean 4.702
Std Dev 0
pull1D
Entries 43
Mean −0.05669
Std Dev 1.518

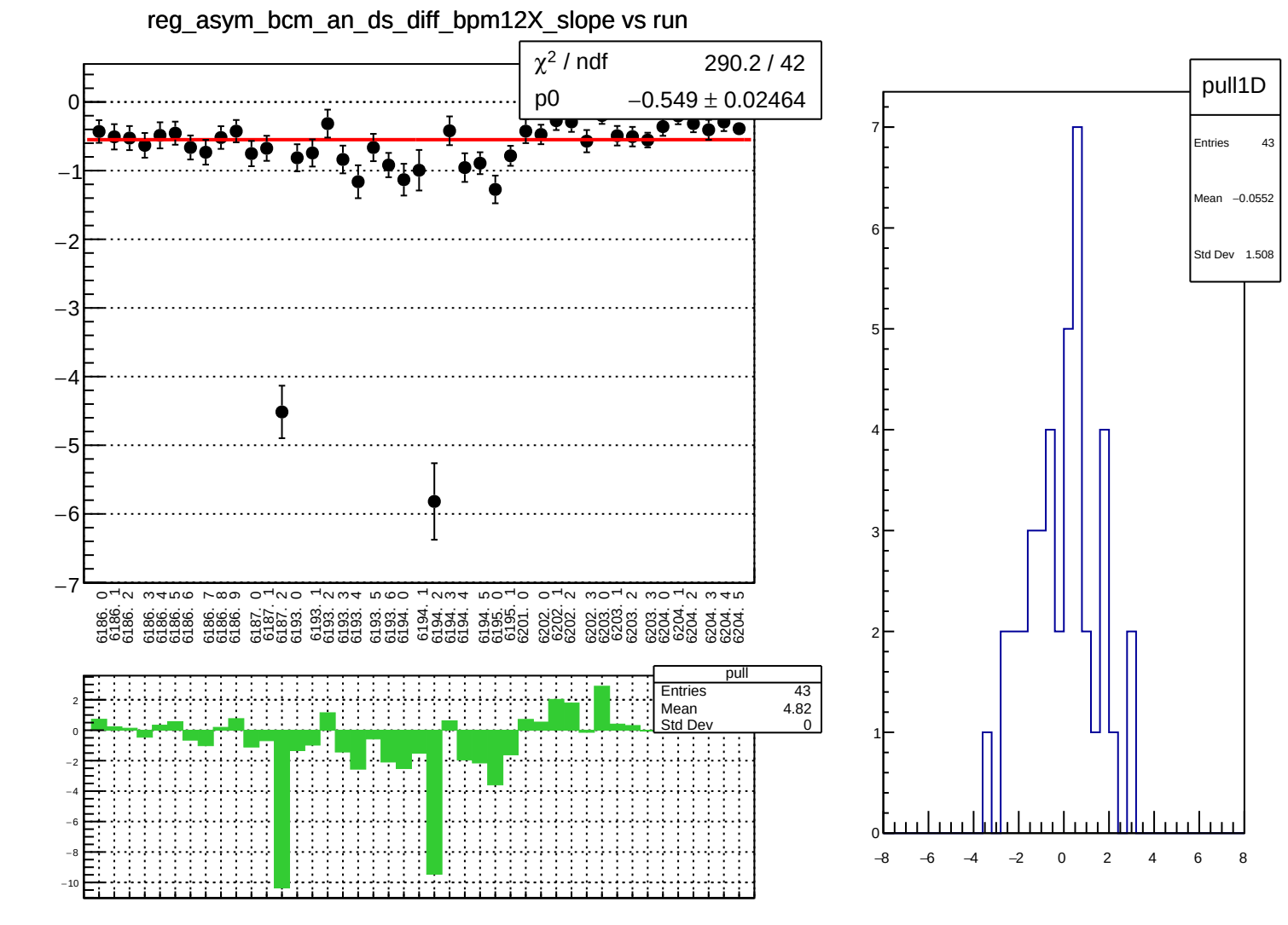

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 865.9 / 42
p0 −9.283 ± 0.2683
pull
Entries 43
Mean 4.758
Std Dev 0

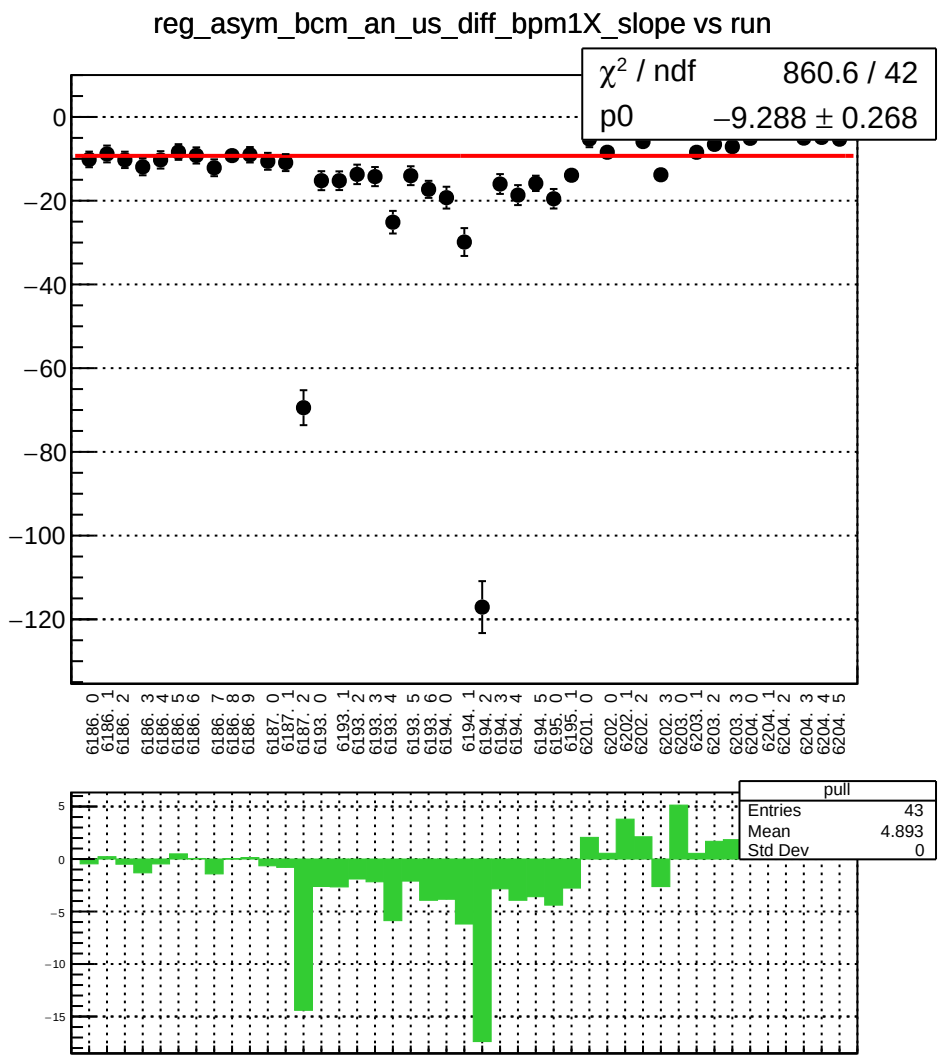

pull1D
Entries 43
Mean −0.3817
Std Dev 2.922

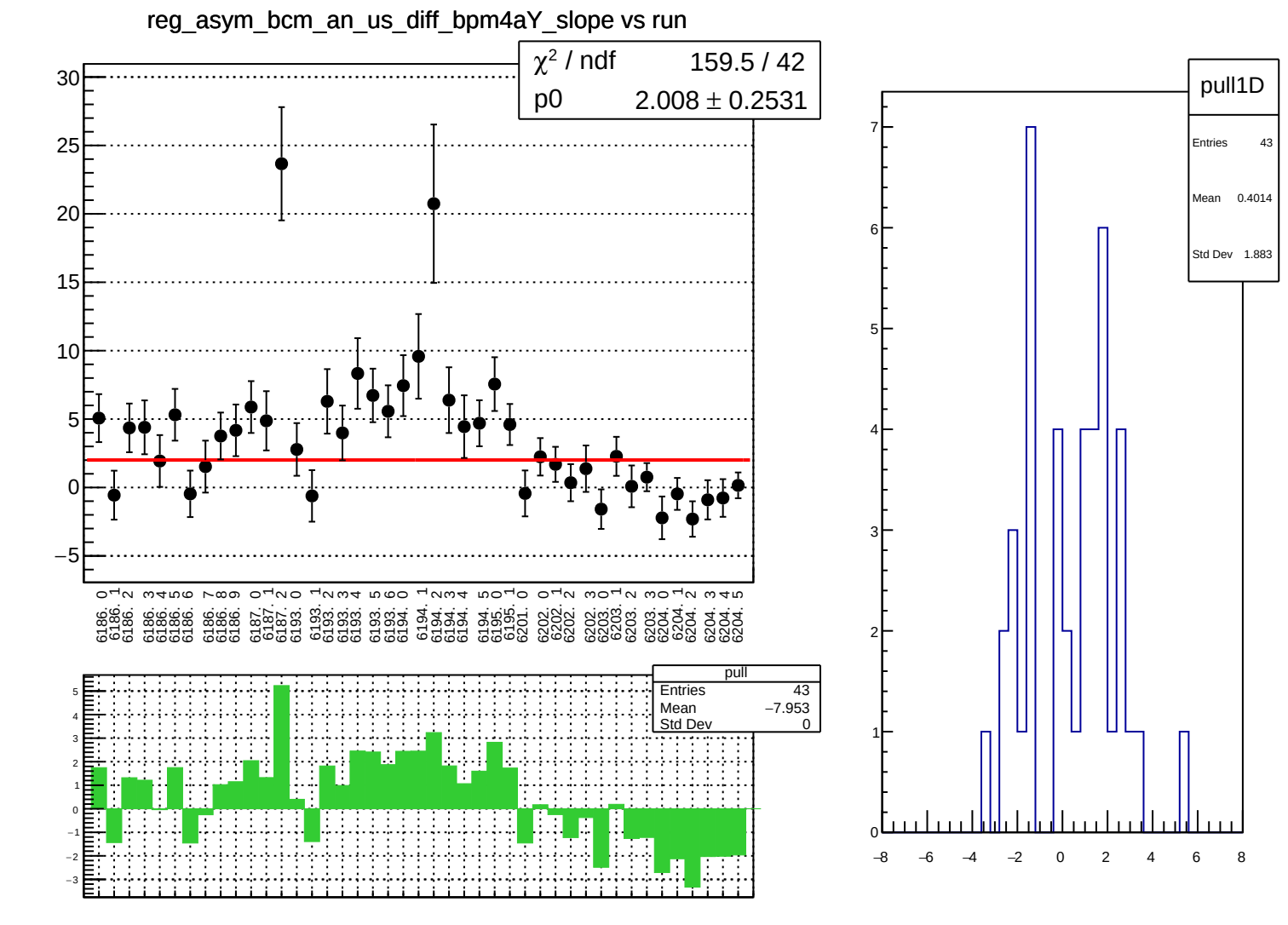

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 161.2 / 42
p0 2.075 ± 0.2534
pull
Entries 43
Mean −8.328
Std Dev 0
pull1D
Entries 43
Mean 0.4045
Std Dev 1.894

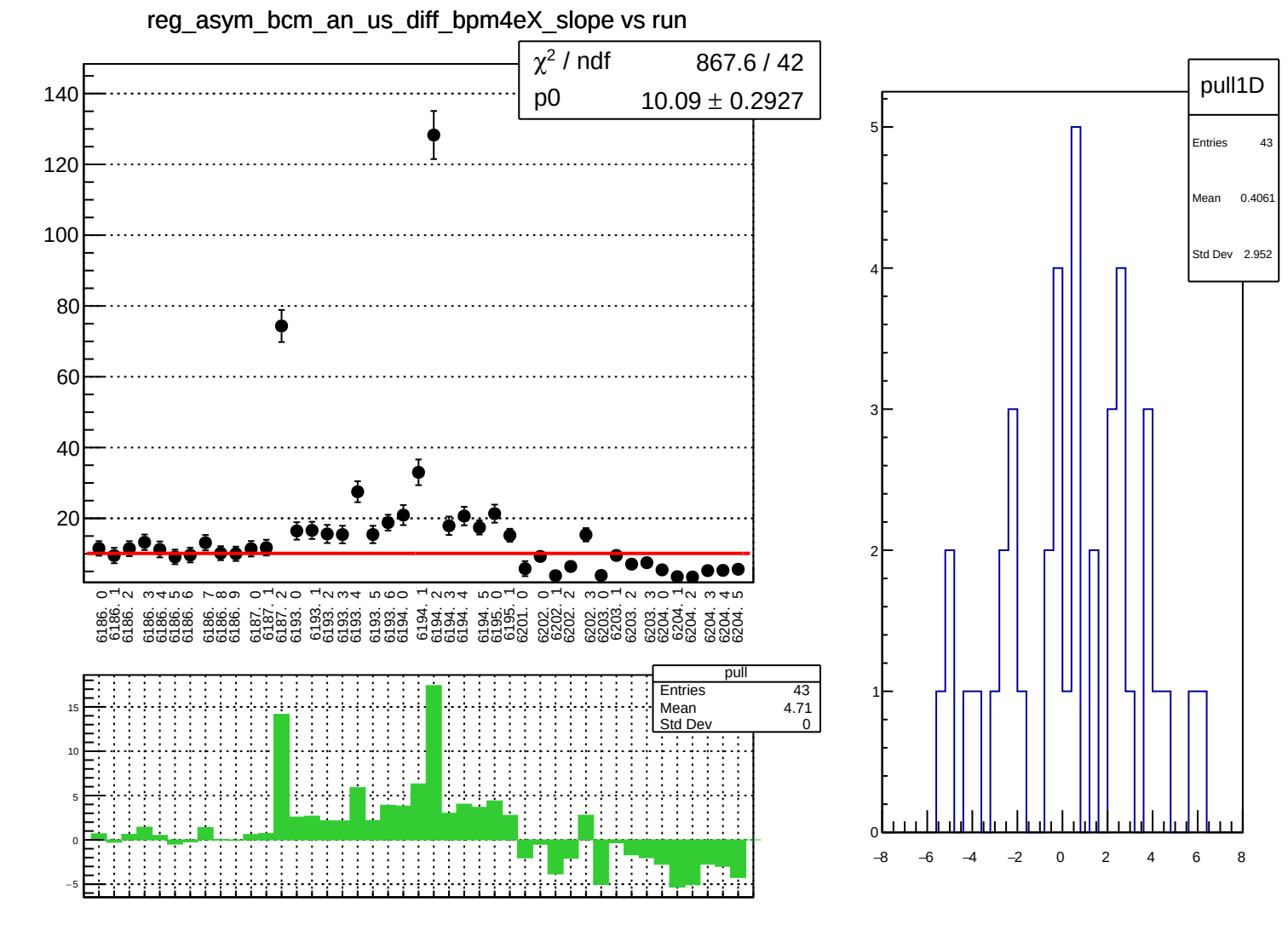

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 874 / 42
p0 10.12 ± 0.293
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.541
Std Dev 0
15
10
5
0
−5
pull1D
Entries 43
Mean 0.3994
Std Dev 2.978
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

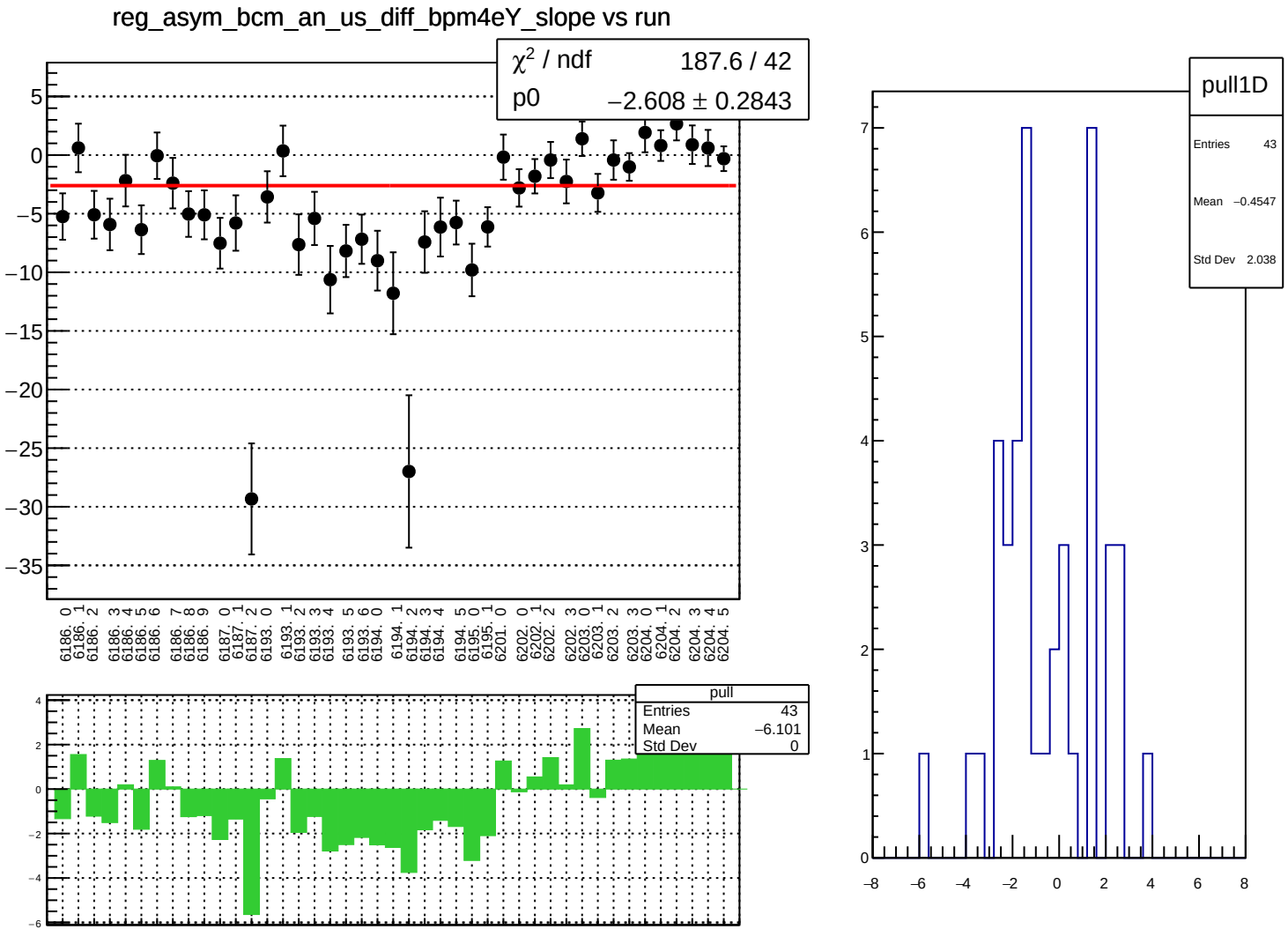

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 188.4 / 42
p0 −2.669 ± 0.2846
pull
Entries 43
Mean −6.448
Std Dev 0
pull1D
Entries 43
Mean −0.4559
Std Dev 2.043

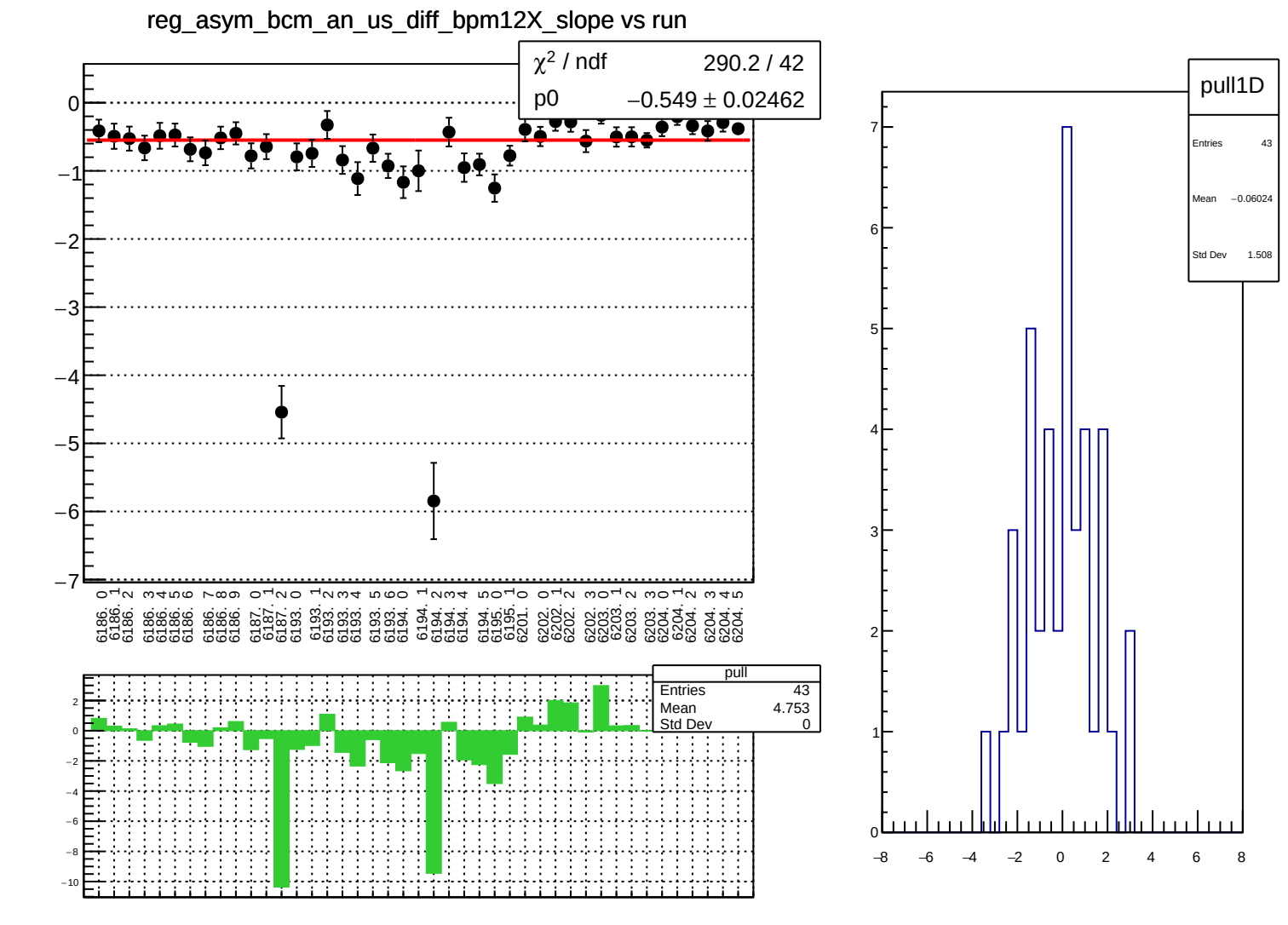

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 290.2 / 42
p0 −0.549 ± 0.02464
pull
Entries 43
Mean 4.82
Std Dev 0
pull1D
Entries 43
Mean −0.0552
Std Dev 1.508

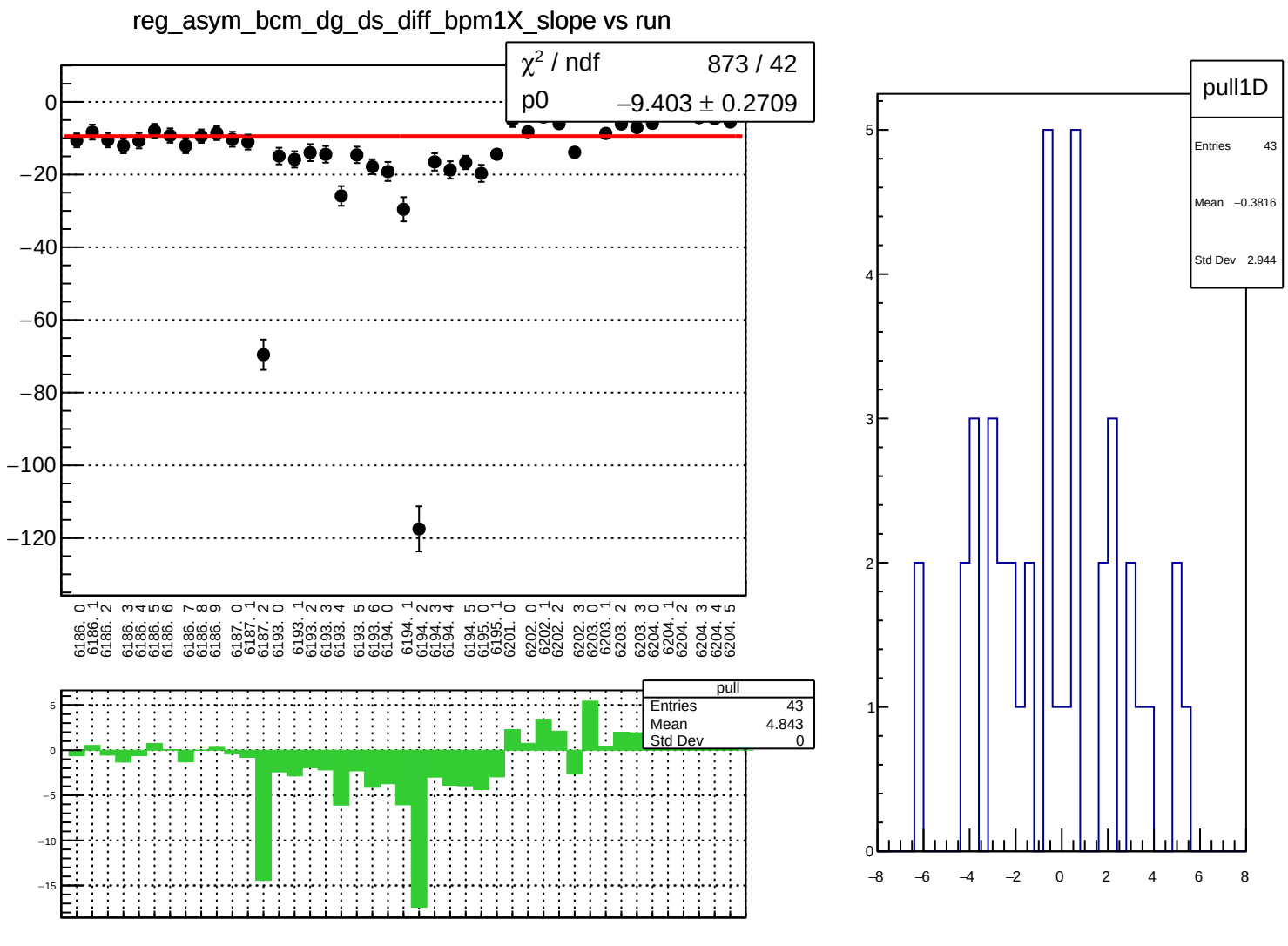

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 860.6 / 42
p0 −9.288 ± 0.268
0
−20
−40
−60
−80
−100
−120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.893
Std Dev 0
5
0
−5
−10
−15
pull1D
Entries 43
Mean −0.3891
Std Dev 2.899
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

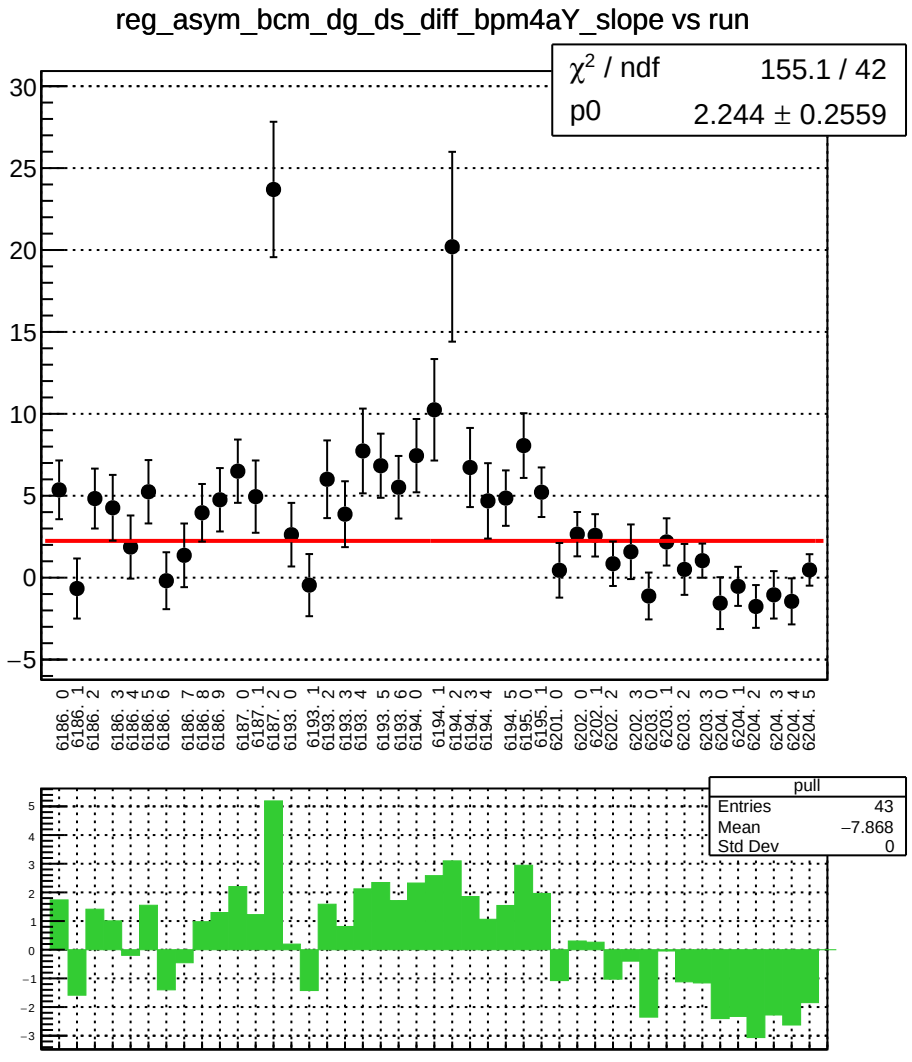

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 159.5 / 42
p0 2.008 ± 0.2531
pull
Entries 43
Mean −7.953
Std Dev 0
pull1D
Entries 43
Mean 0.4014
Std Dev 1.883

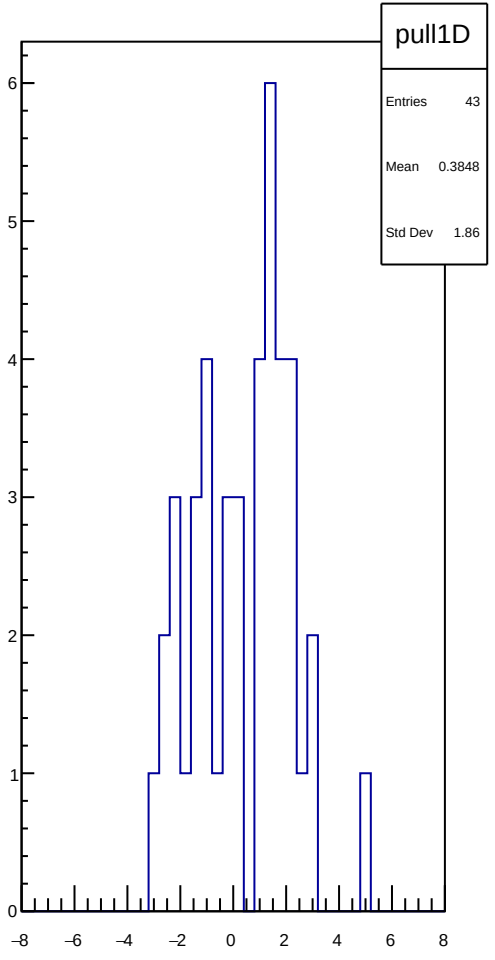

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 867.6 / 42
p0 10.09 ± 0.2927
pull
Entries 43
Mean 4.71
Std Dev 0
pull1D
Entries 43
Mean 0.4061
Std Dev 2.952

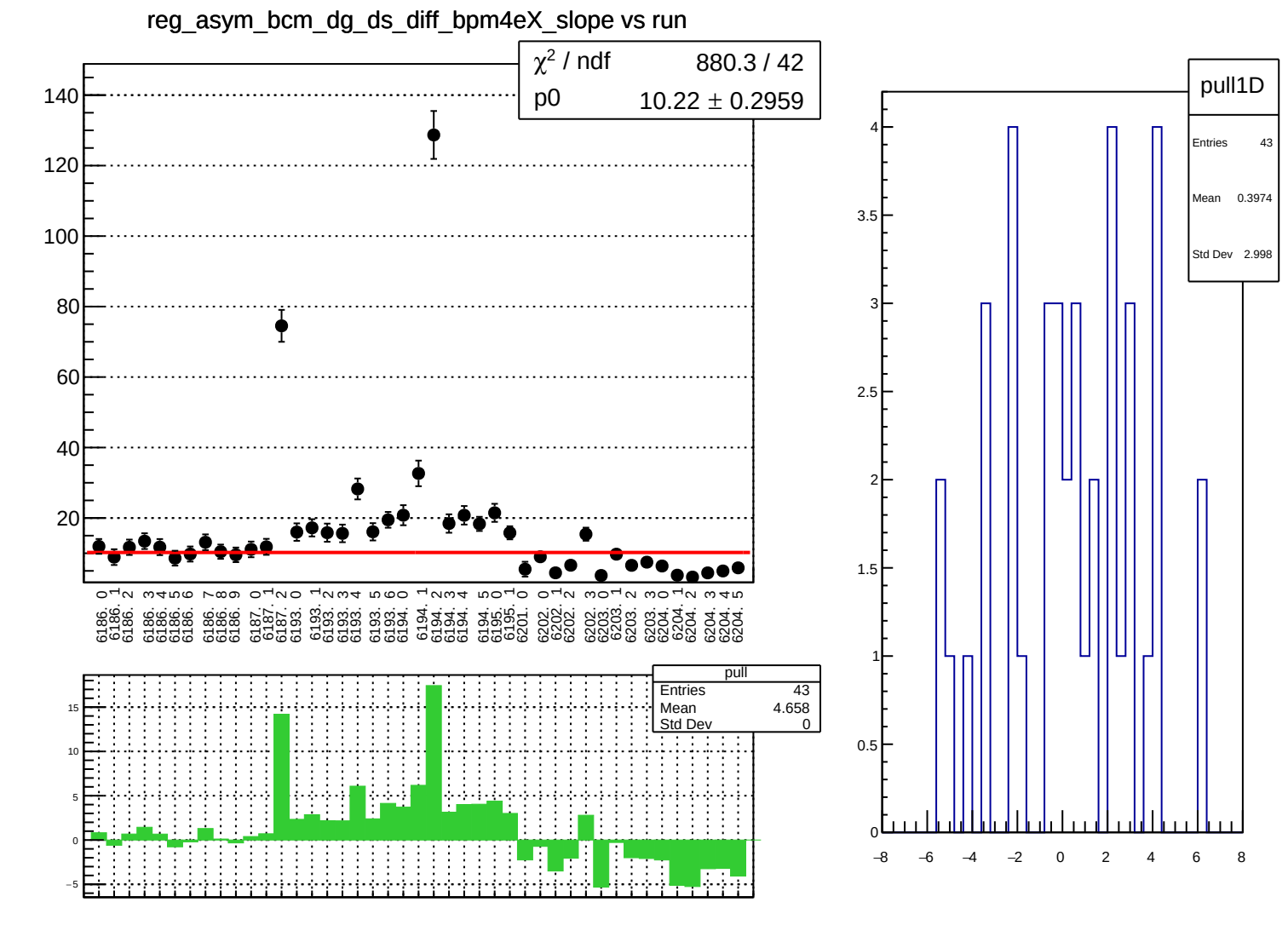

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 187.6 / 42
p0 −2.608 ± 0.2843
pull
Entries 43
Mean −6.101
Std Dev 0
pull1D
Entries 43
Mean −0.4547
Std Dev 2.038

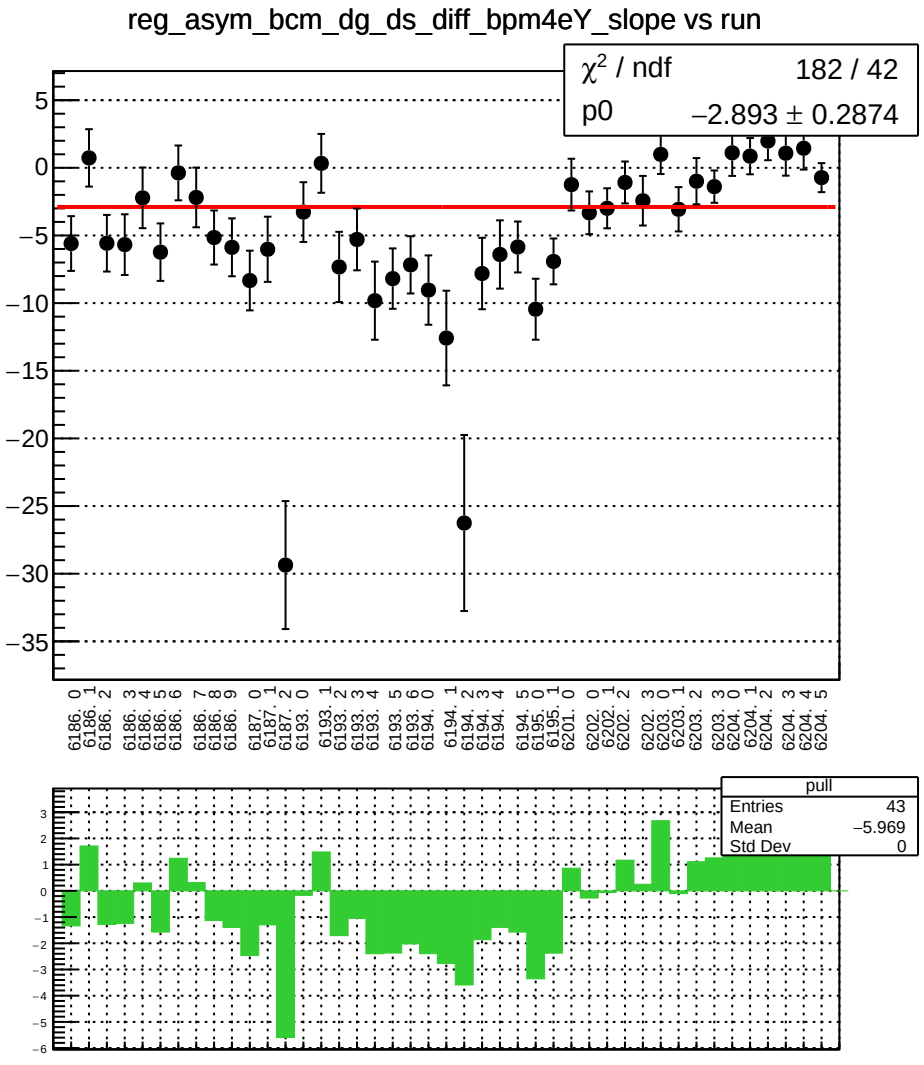

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 290.2 / 42
p0 −0.549 ± 0.02462
pull
Entries 43
Mean 4.753
Std Dev 0
pull1D
Entries 43
Mean −0.06024
Std Dev 1.508

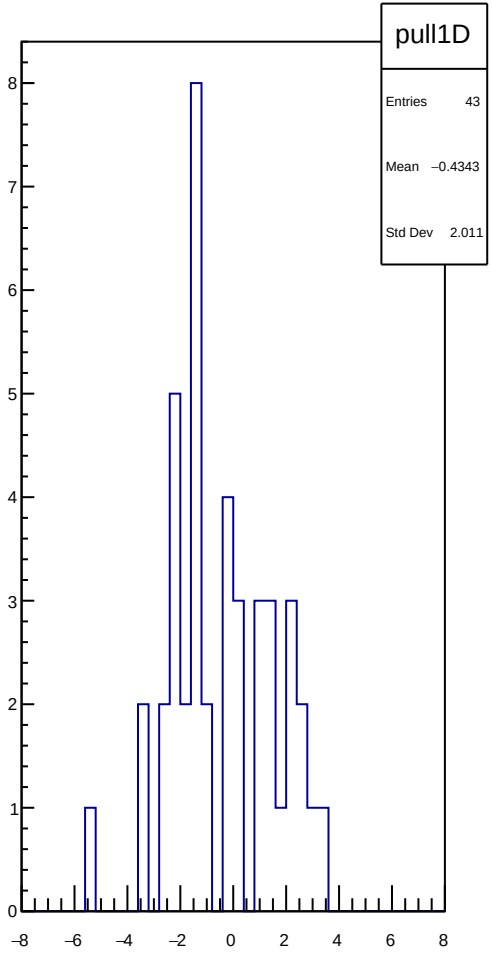

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 873 / 42
p0 −9.403 ± 0.2709
0
−20
−40
−60
−80
−100
−120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.843
Std Dev 0
5
0
−5
−10
−15
pull1D
Entries 43
Mean −0.3816
Std Dev 2.944
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

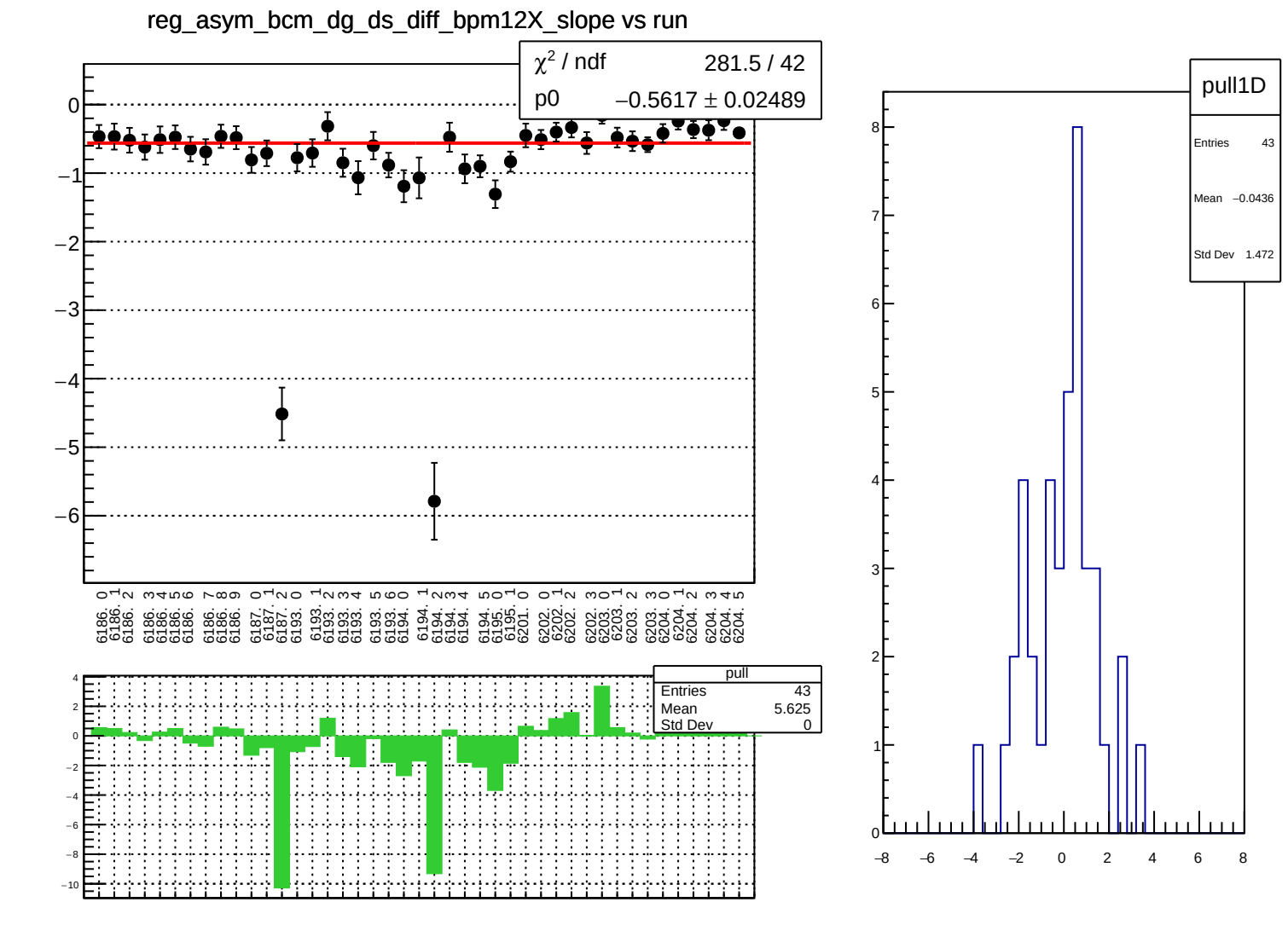

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 155.1 / 42
p0 2.244 ± 0.2559
pull
Entries 43
Mean −7.868
Std Dev 0

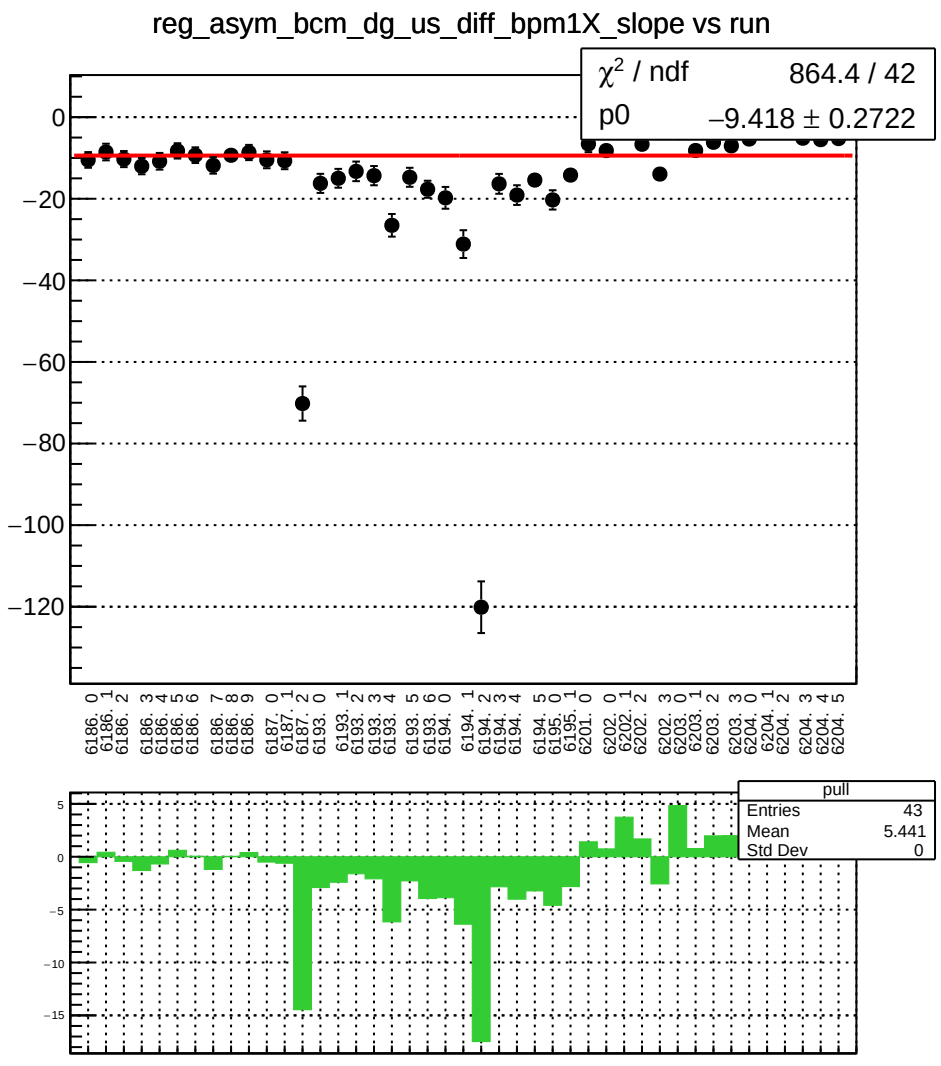

pull1D
Entries 43
Mean 0.3848
Std Dev 1.86

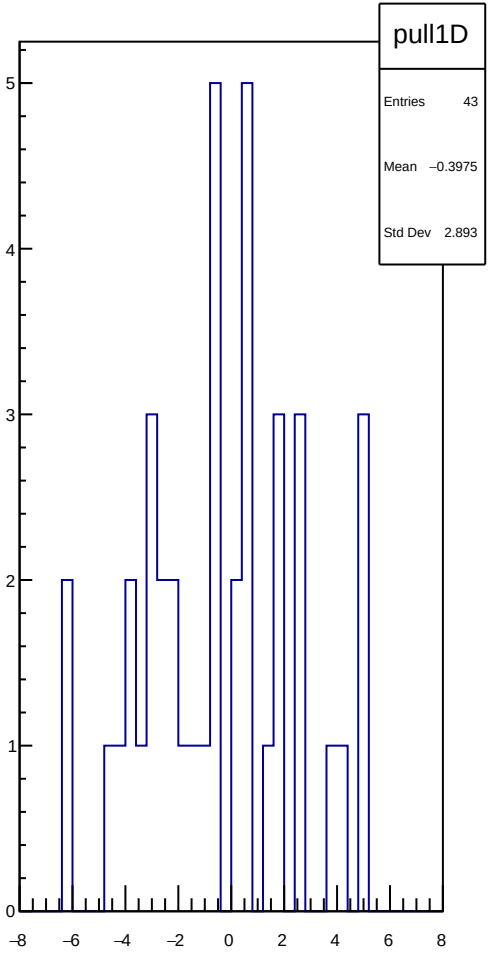

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 880.3 / 42
p0 10.22 ± 0.2959
pull
Entries 43
Mean 4.658
Std Dev 0
pull1D
Entries 43
Mean 0.3974
Std Dev 2.998

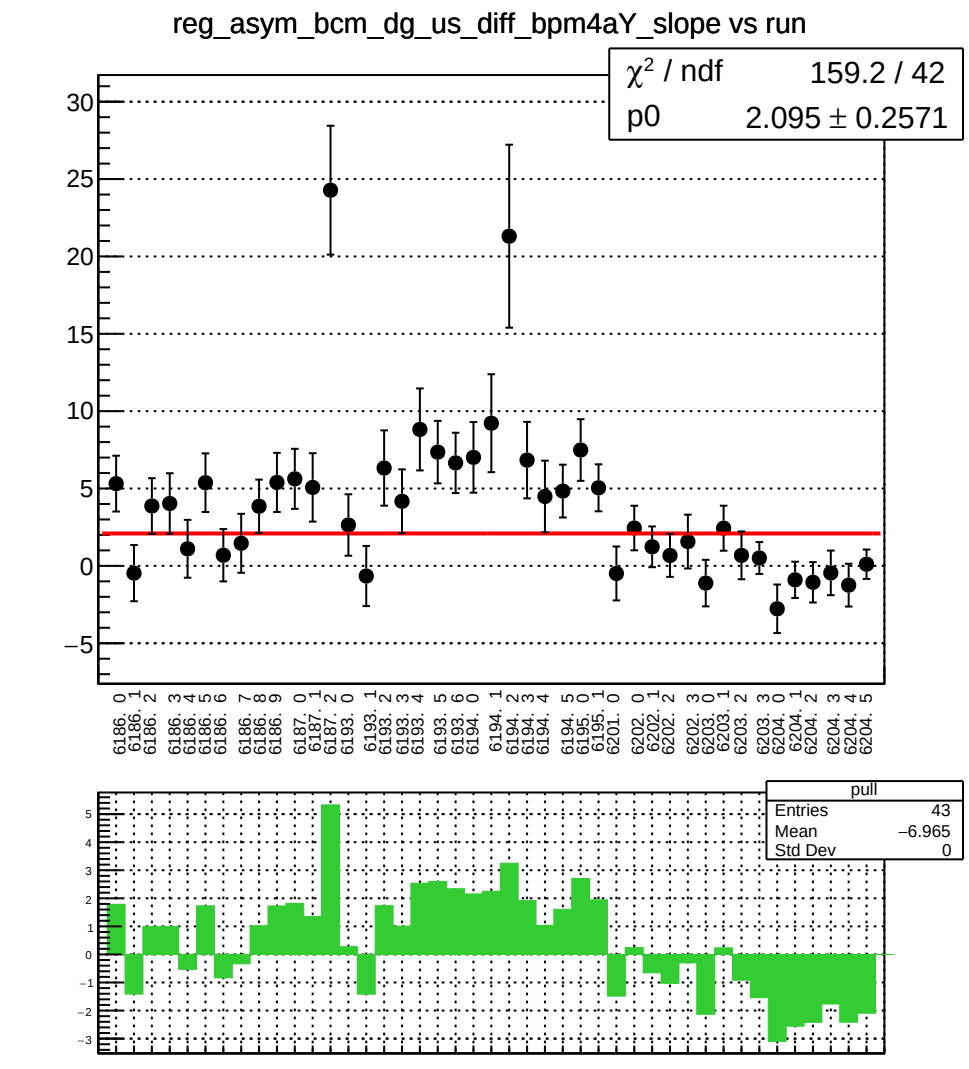

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 182 / 42
p0 −2.893 ± 0.2874
pull
Entries 43
Mean −5.969
Std Dev 0

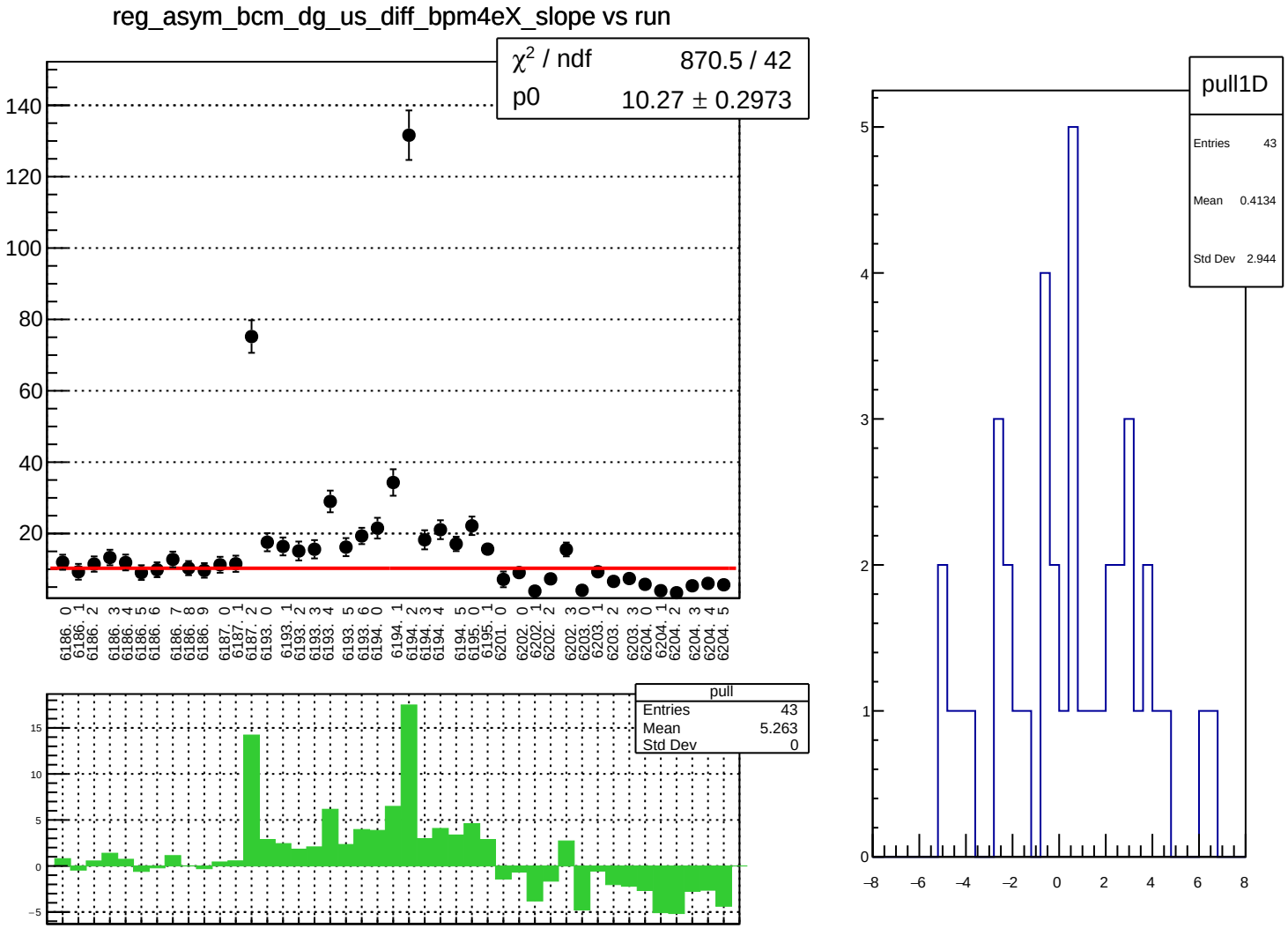

pull1D
Entries 43
Mean −0.4343
Std Dev 2.011

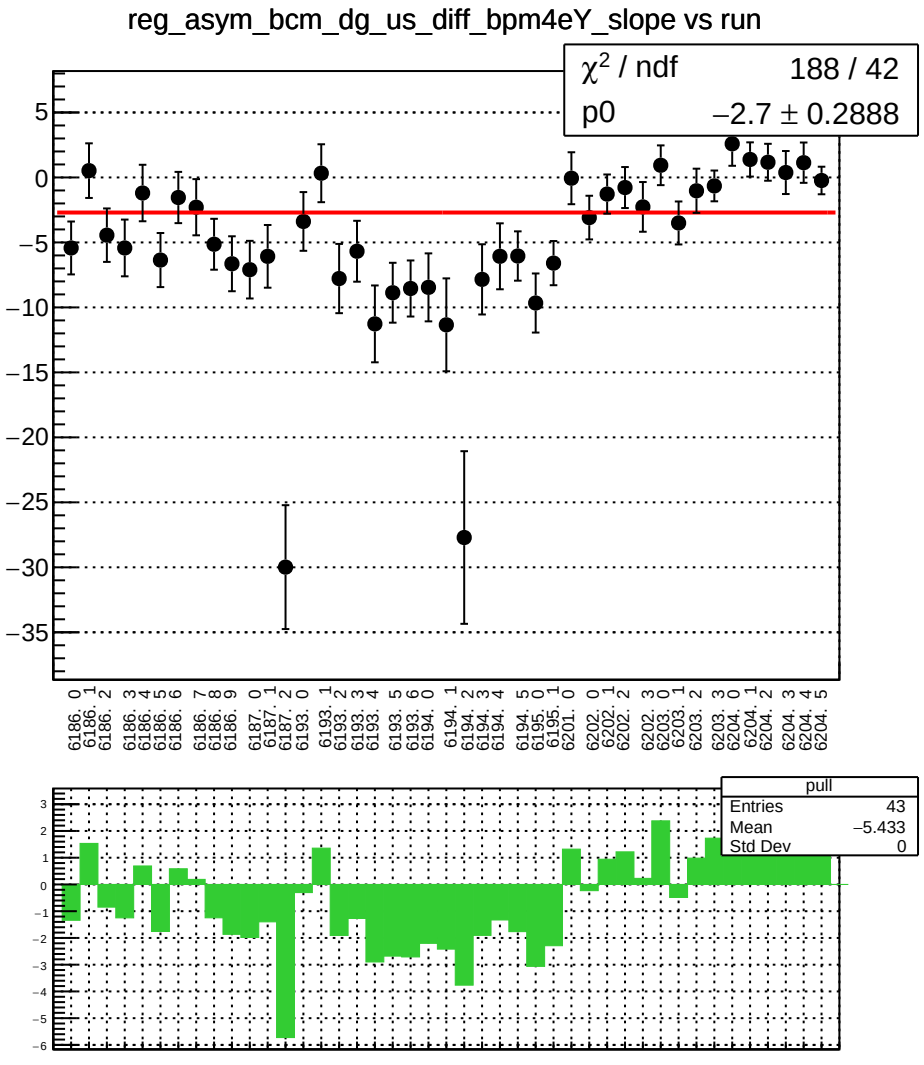

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 281.5 / 42
p0 −0.5617 ± 0.02489
pull
Entries 43
Mean 5.625
Std Dev 0
pull1D
Entries 43
Mean −0.0436
Std Dev 1.472

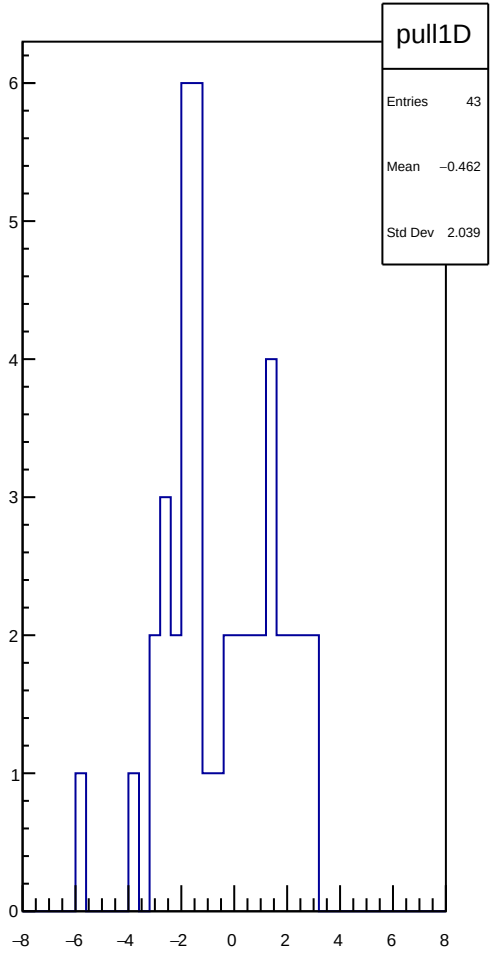

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 864.4 / 42
p0 −9.418 ± 0.2722
pull
Entries 43
Mean 5.441
Std Dev 0

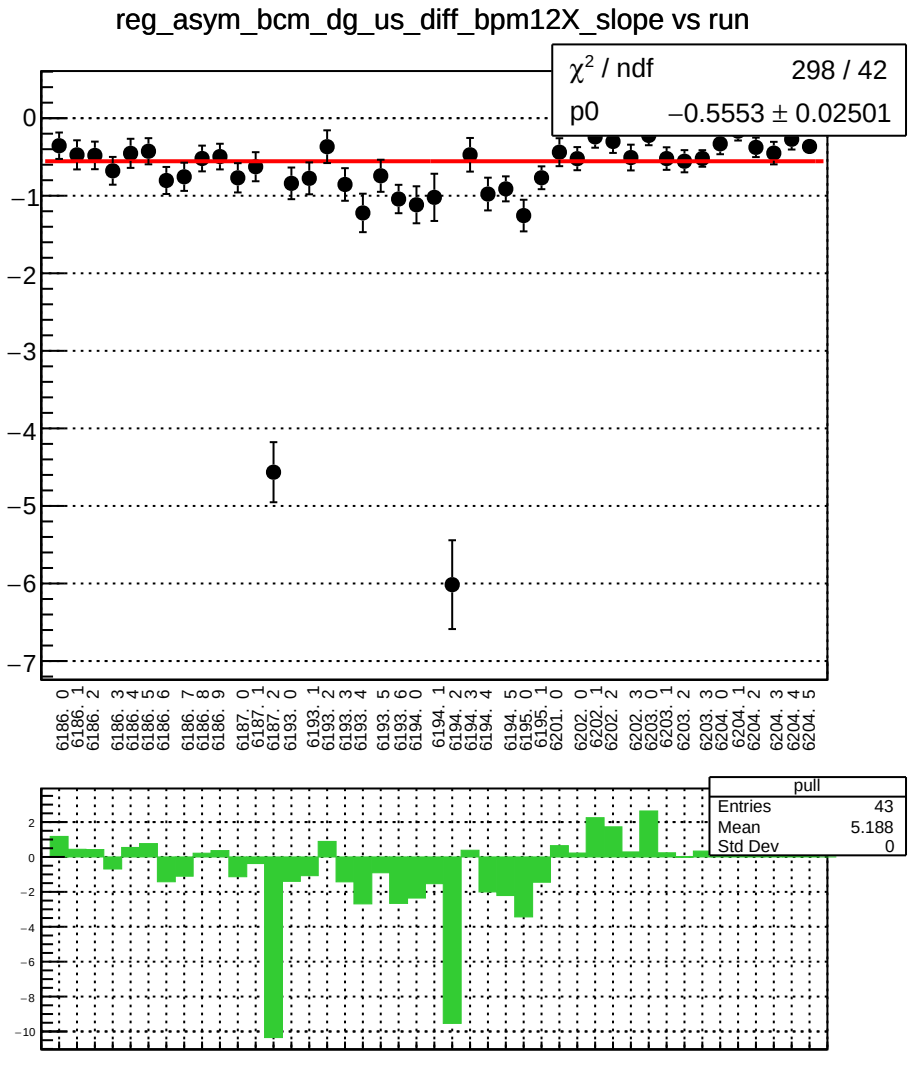

pull1D
Entries 43
Mean −0.3975
Std Dev 2.893

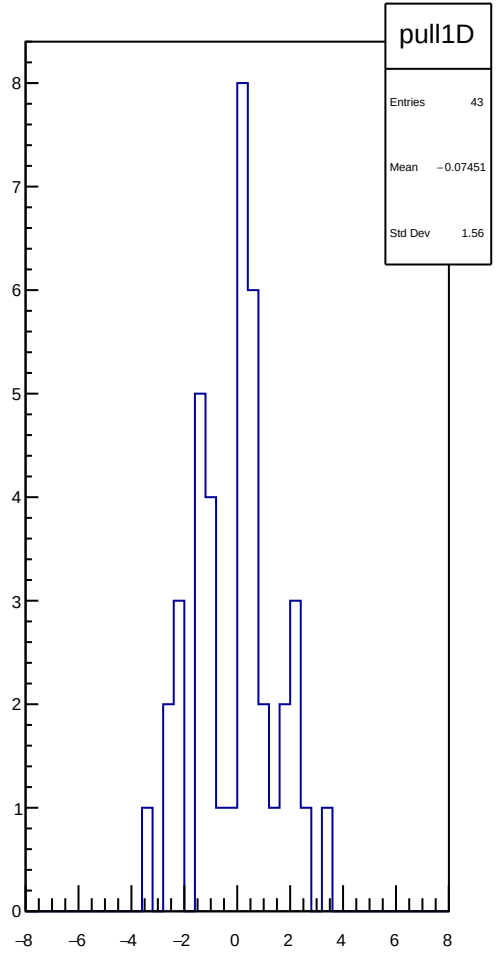

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 159.2 / 42
p0 2.095 ± 0.2571
pull
Entries 43
Mean −6.965
Std Dev 0
pull1D
Entries 43
Mean 0.4105
Std Dev 1.88

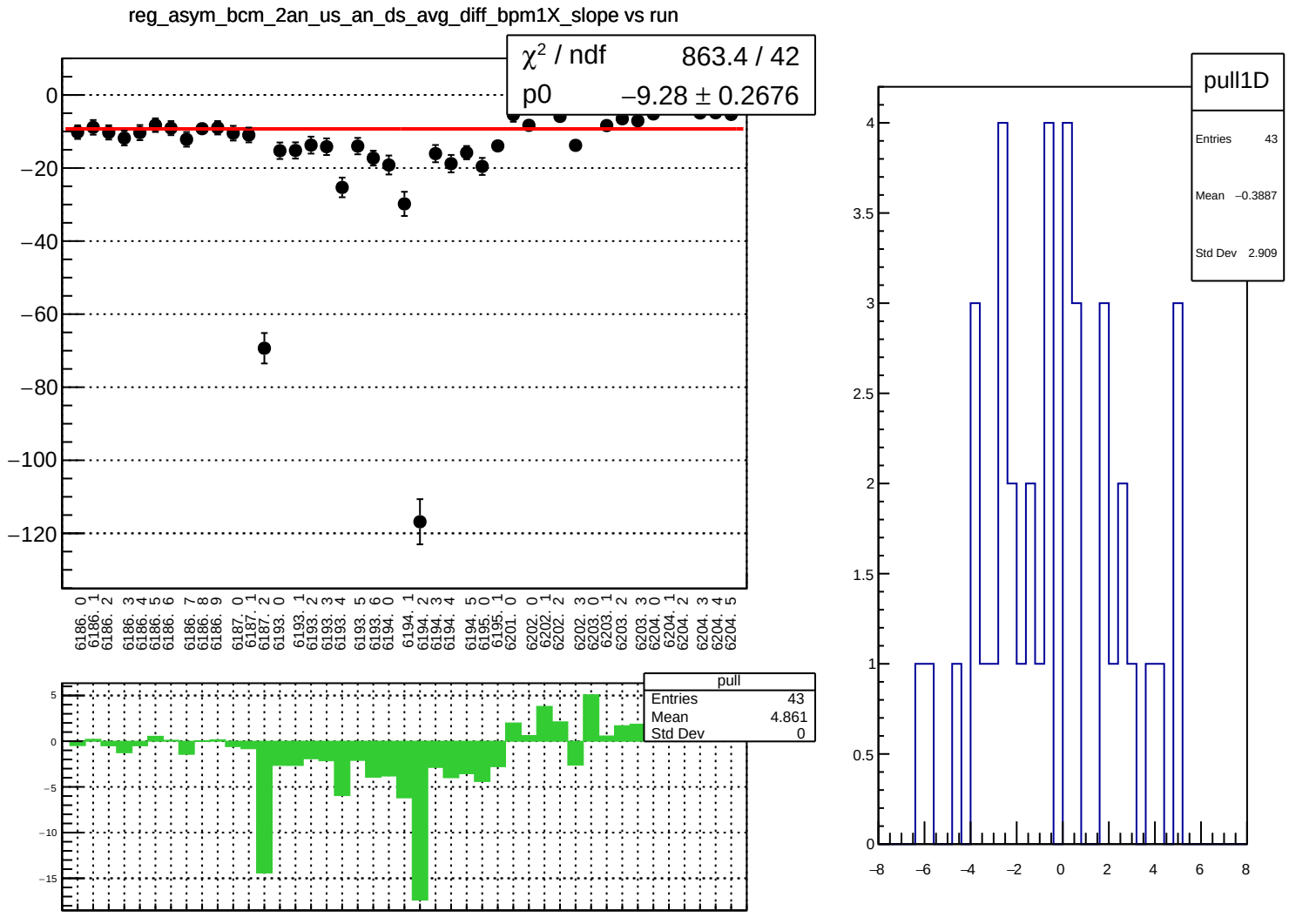

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 870.5 / 42
p0 10.27 ± 0.2973
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 5.263
Std Dev 0
15
10
5
0
−5
pull1D
Entries 43
Mean 0.4134
Std Dev 2.944
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

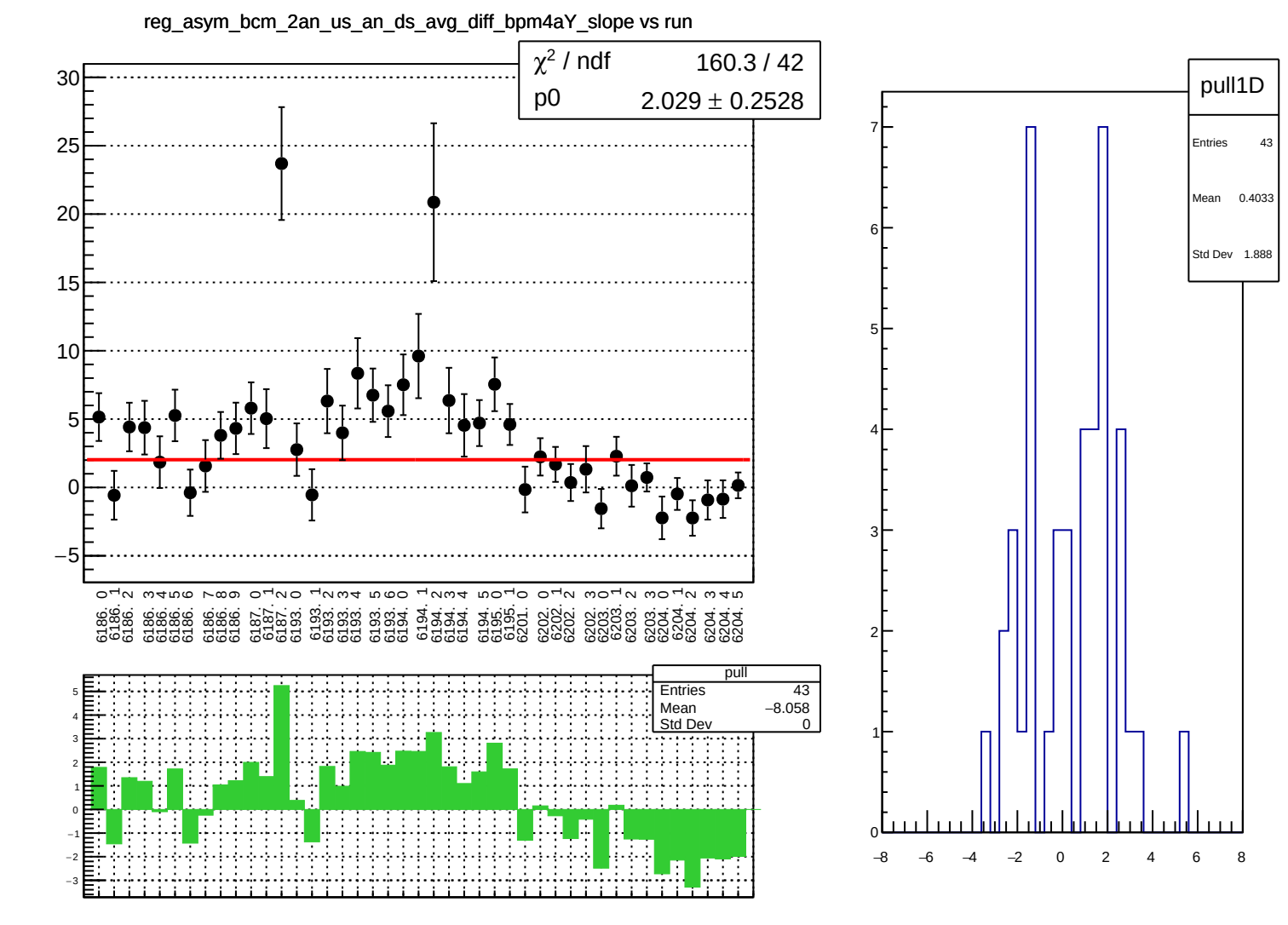

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 188 / 42
p0 −2.7 ± 0.2888
pull
Entries 43
Mean −5.433
Std Dev 0

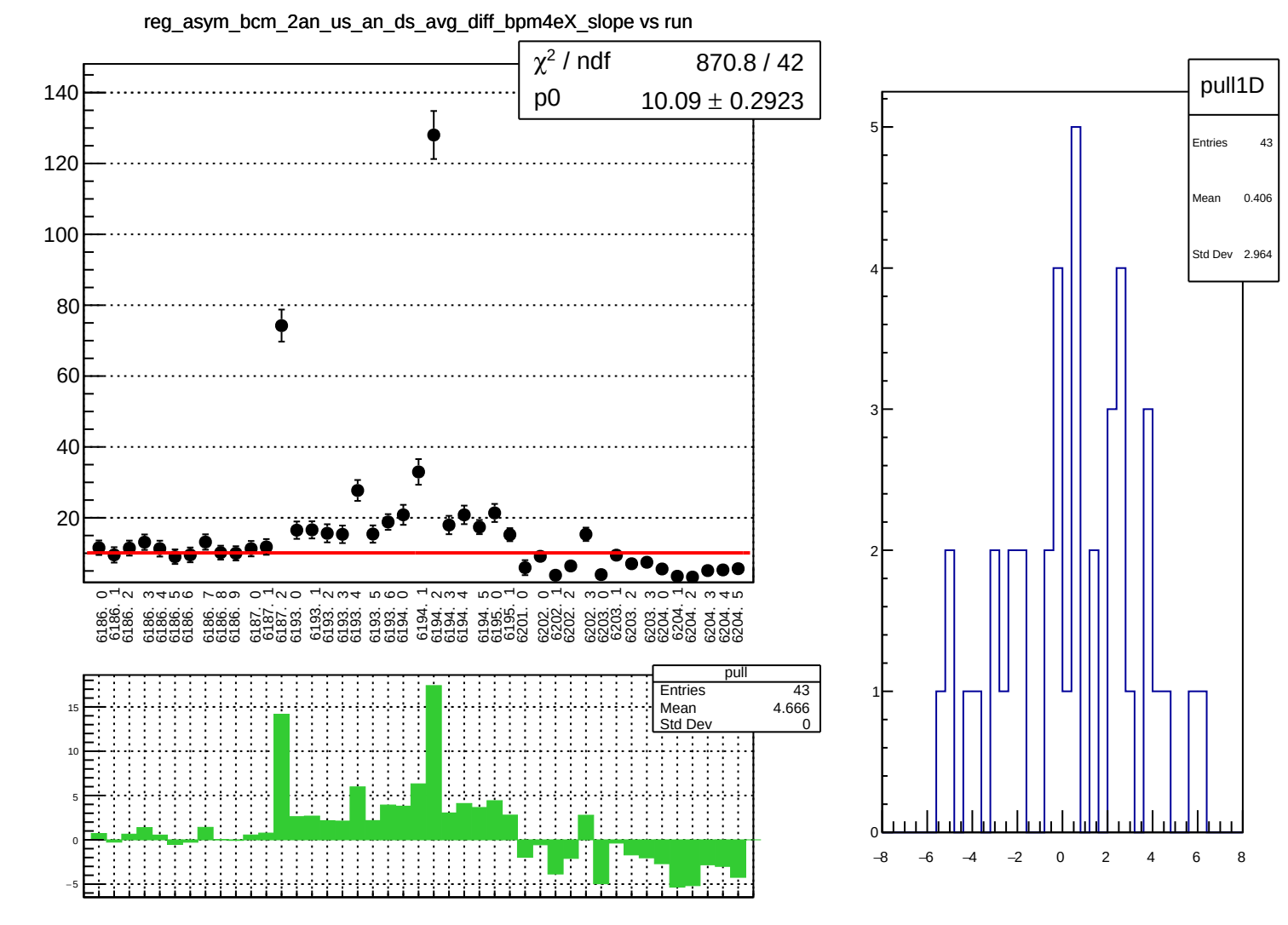

pull1D
Entries 43
Mean −0.462
Std Dev 2.039

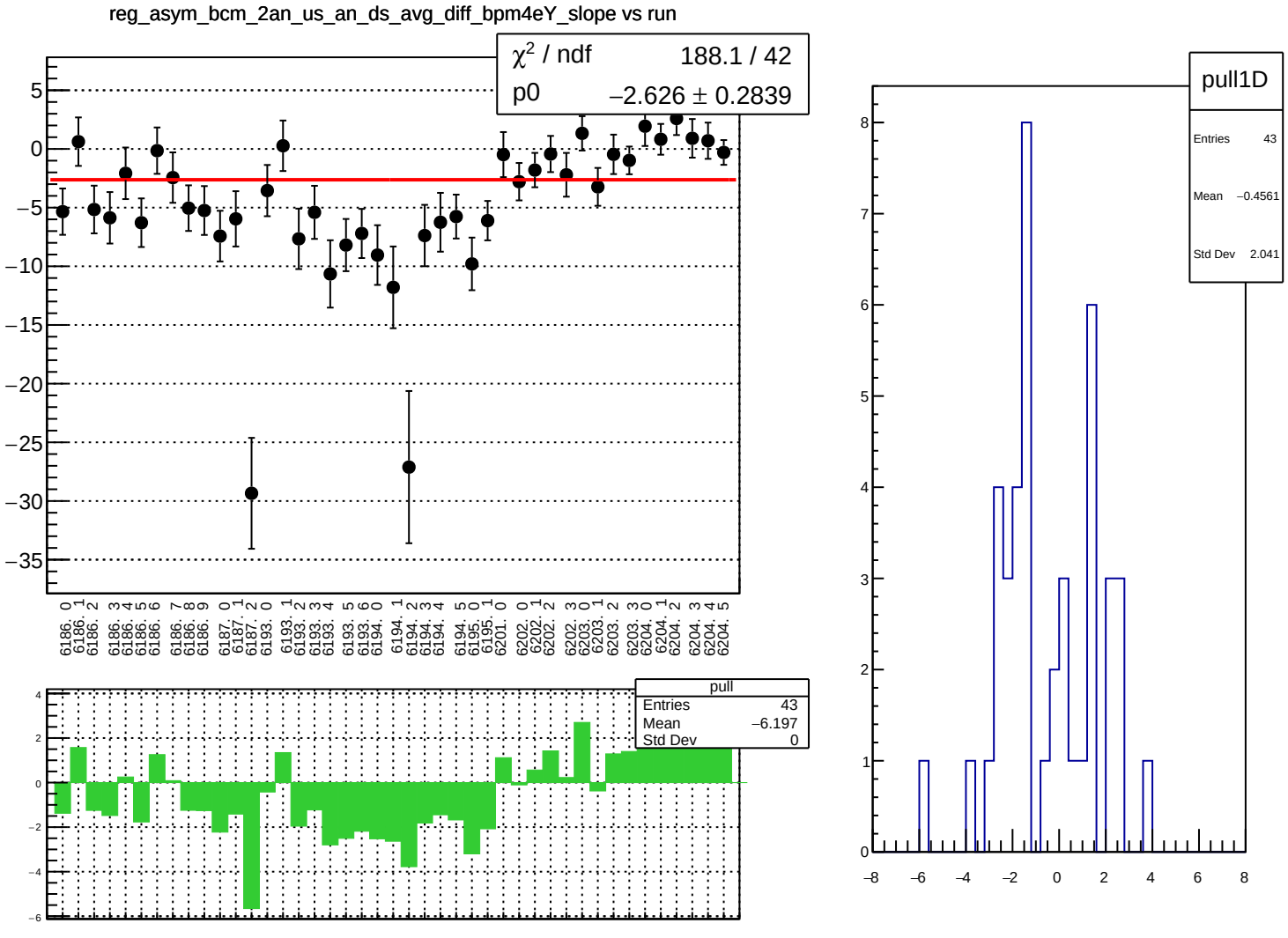

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 298 / 42
p0 −0.5553 ± 0.02501
pull
Entries 43
Mean 5.188
Std Dev 0

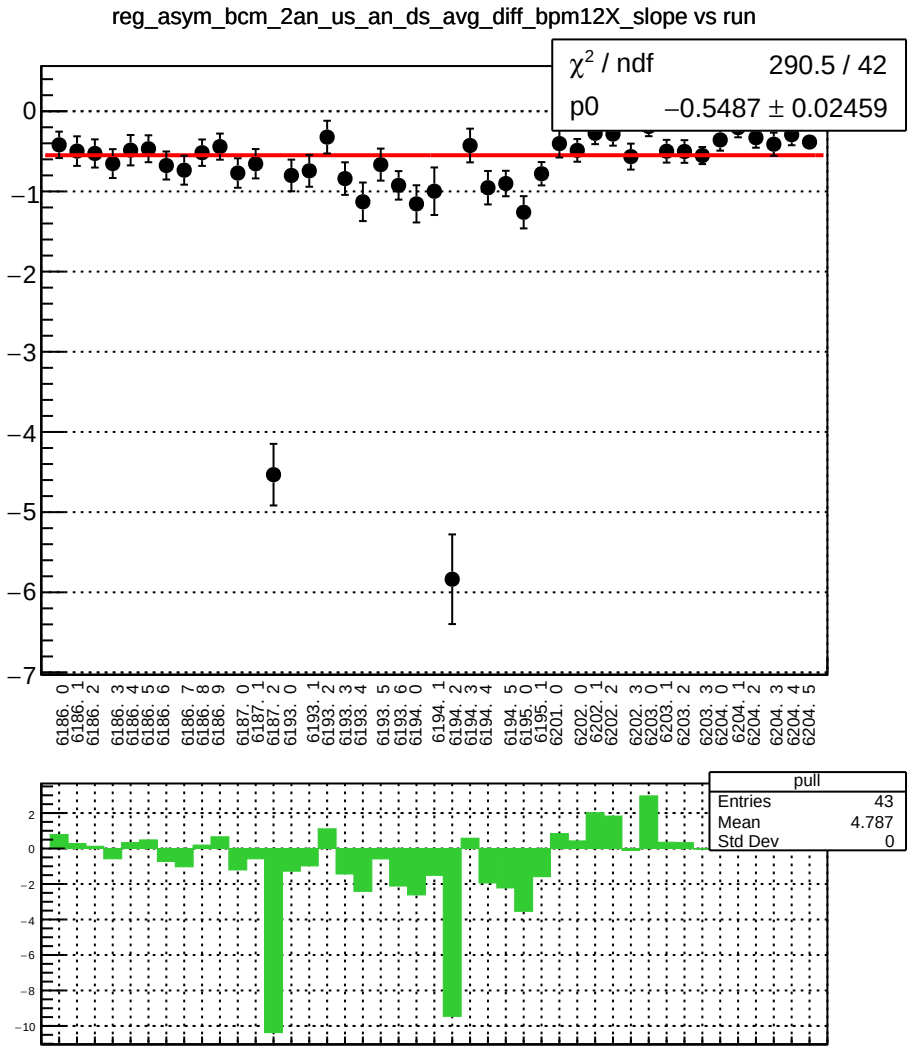

pull1D
Entries 43
Mean −0.07451
Std Dev 1.56

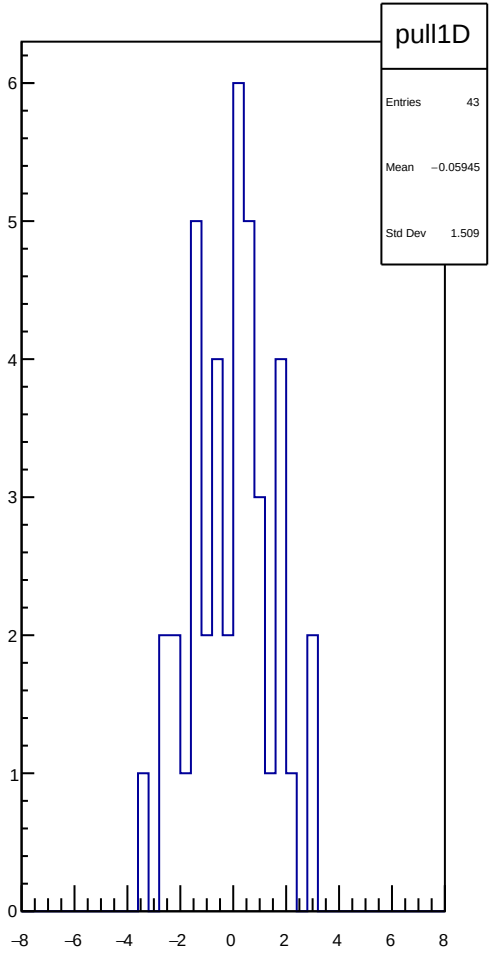

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 863.4 / 42
p0 −9.28 ± 0.2676
pull
Entries 43
Mean 4.861
Std Dev 0
pull1D
Entries 43
Mean −0.3887
Std Dev 2.909

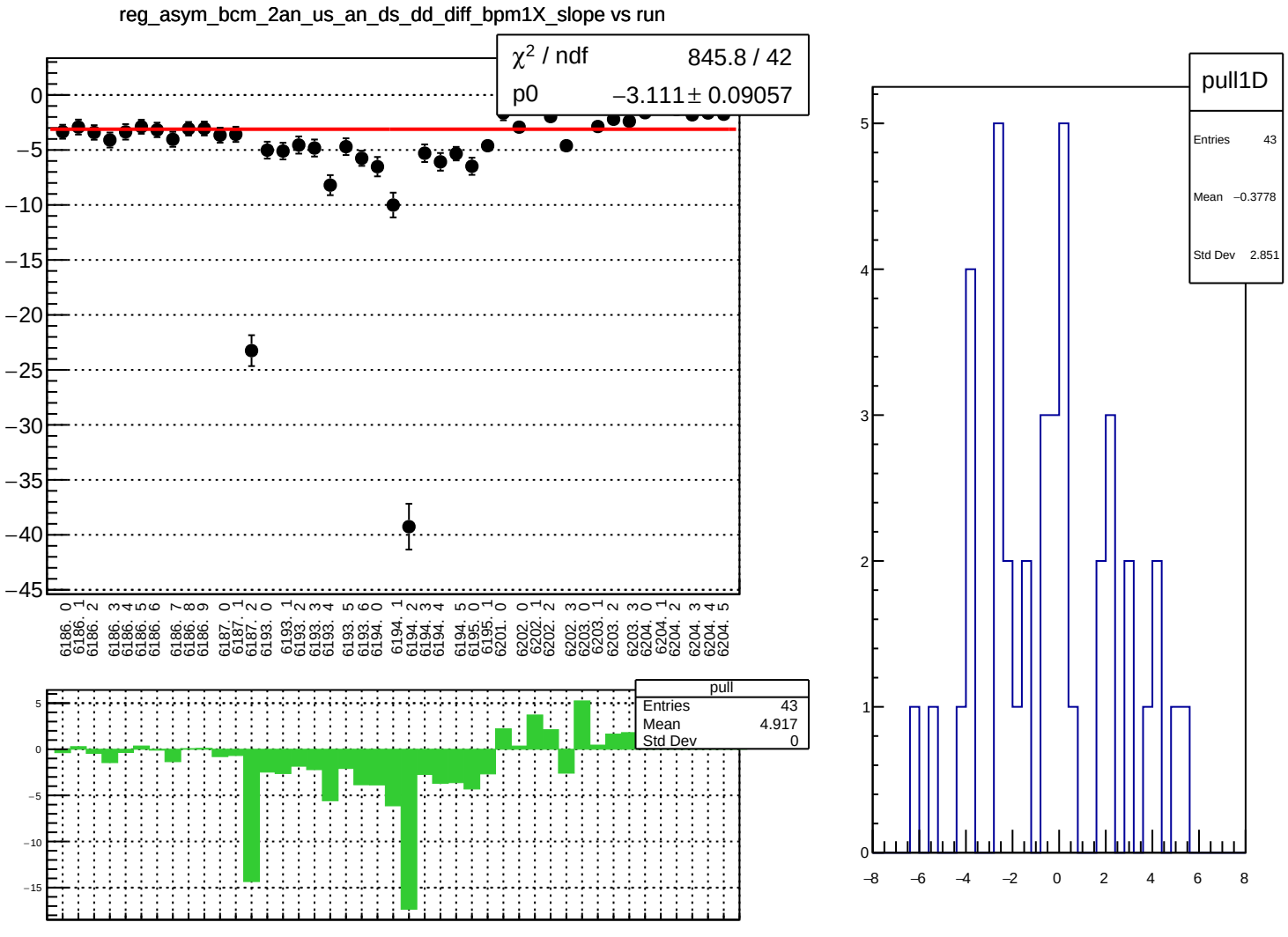

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 160.3 / 42
p0 2.029 ± 0.2528
pull
Entries 43
Mean −8.058
Std Dev 0
pull1D
Entries 43
Mean 0.4033
Std Dev 1.888

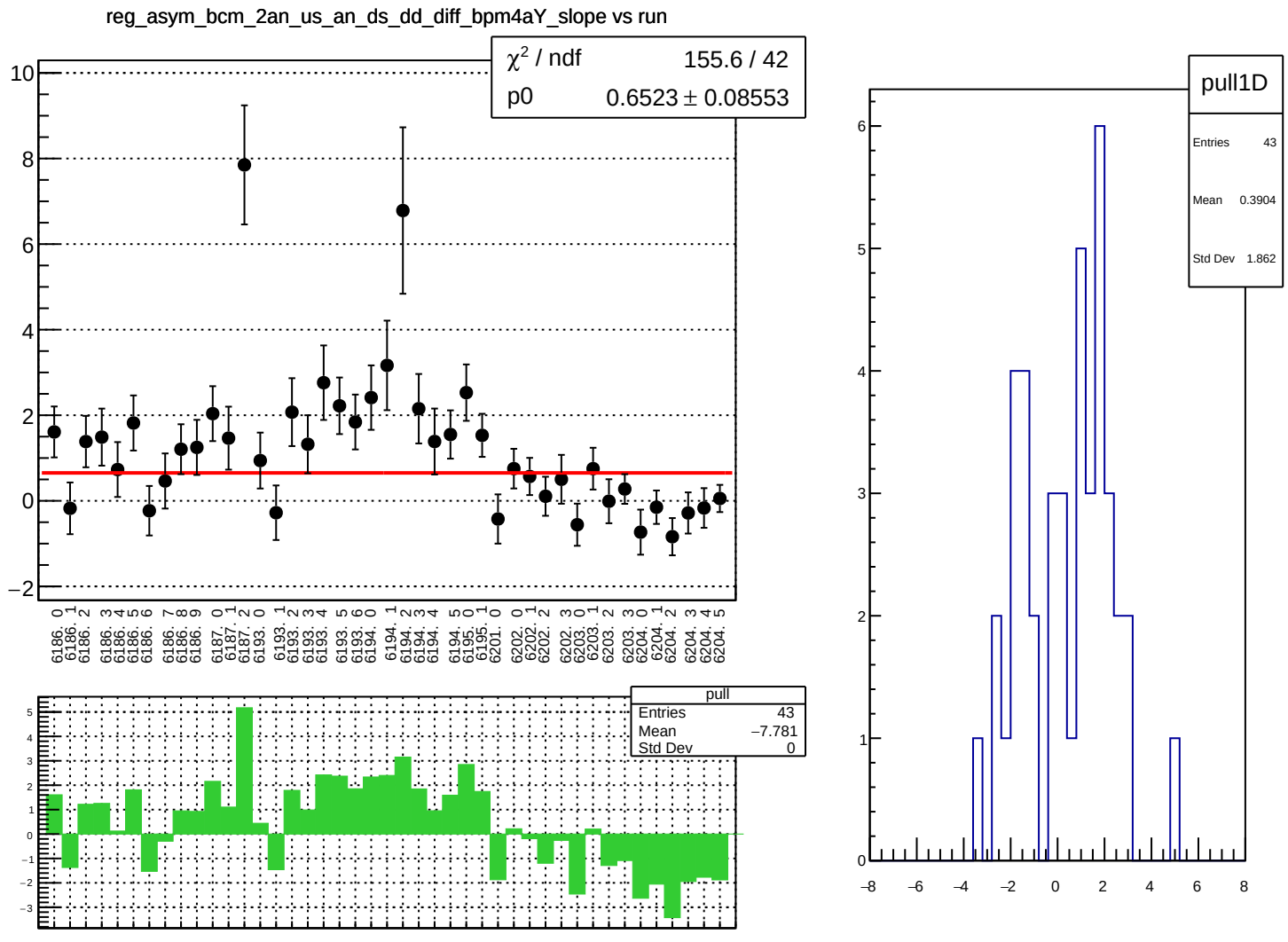

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 870.8 / 42
p0 10.09 ± 0.2923
140
120
100
80
60
40
20
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.666
Std Dev 0
15
10
5
0
−5
pull1D
Entries 43
Mean 0.406
Std Dev 2.964
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

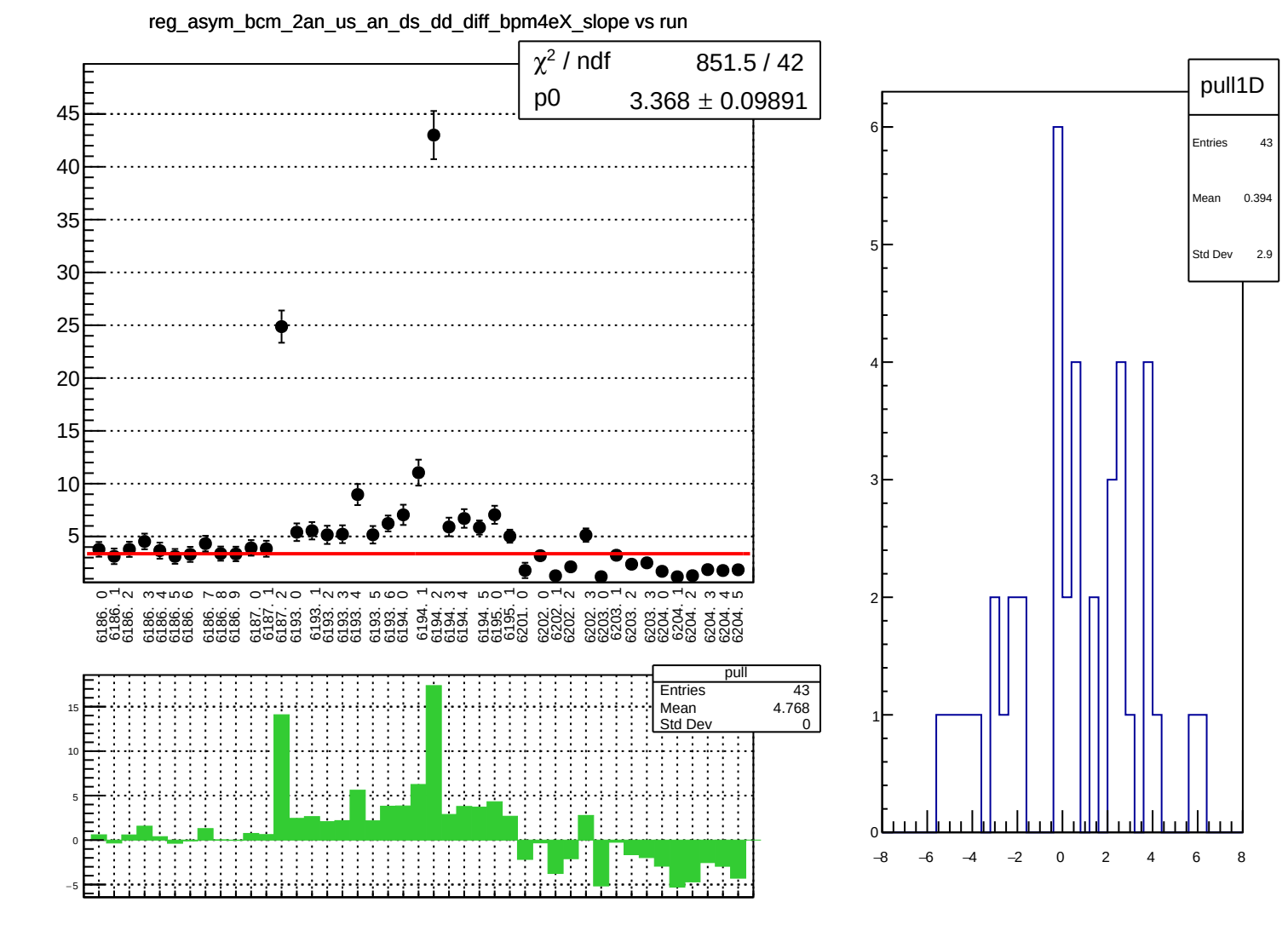

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 188.1 / 42
p0 −2.626 ± 0.2839
pull
Entries 43
Mean −6.197
Std Dev 0
pull1D
Entries 43
Mean −0.4561
Std Dev 2.041

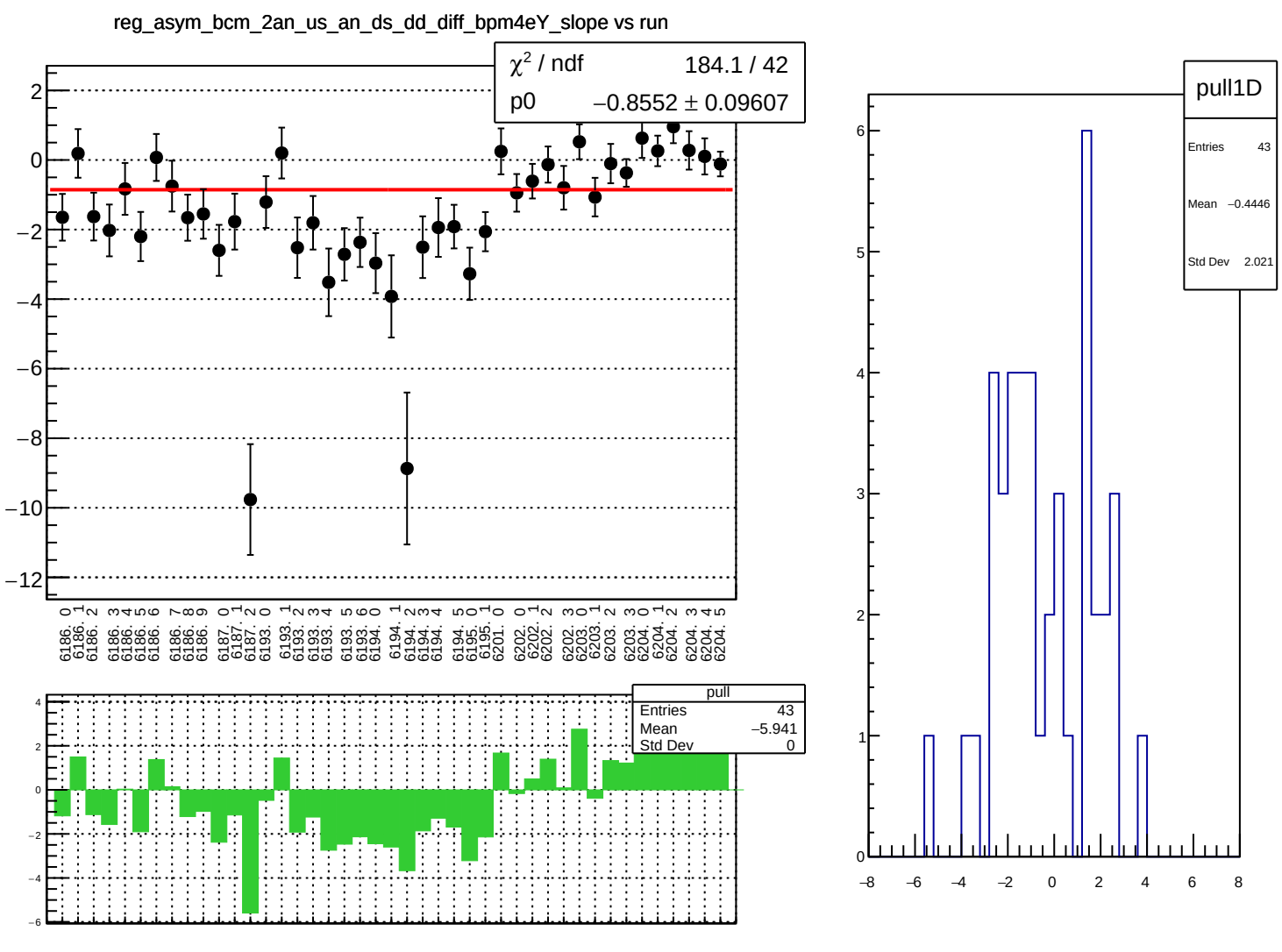

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 290.5 / 42
p0 −0.5487 ± 0.02459
pull
Entries 43
Mean 4.787
Std Dev 0

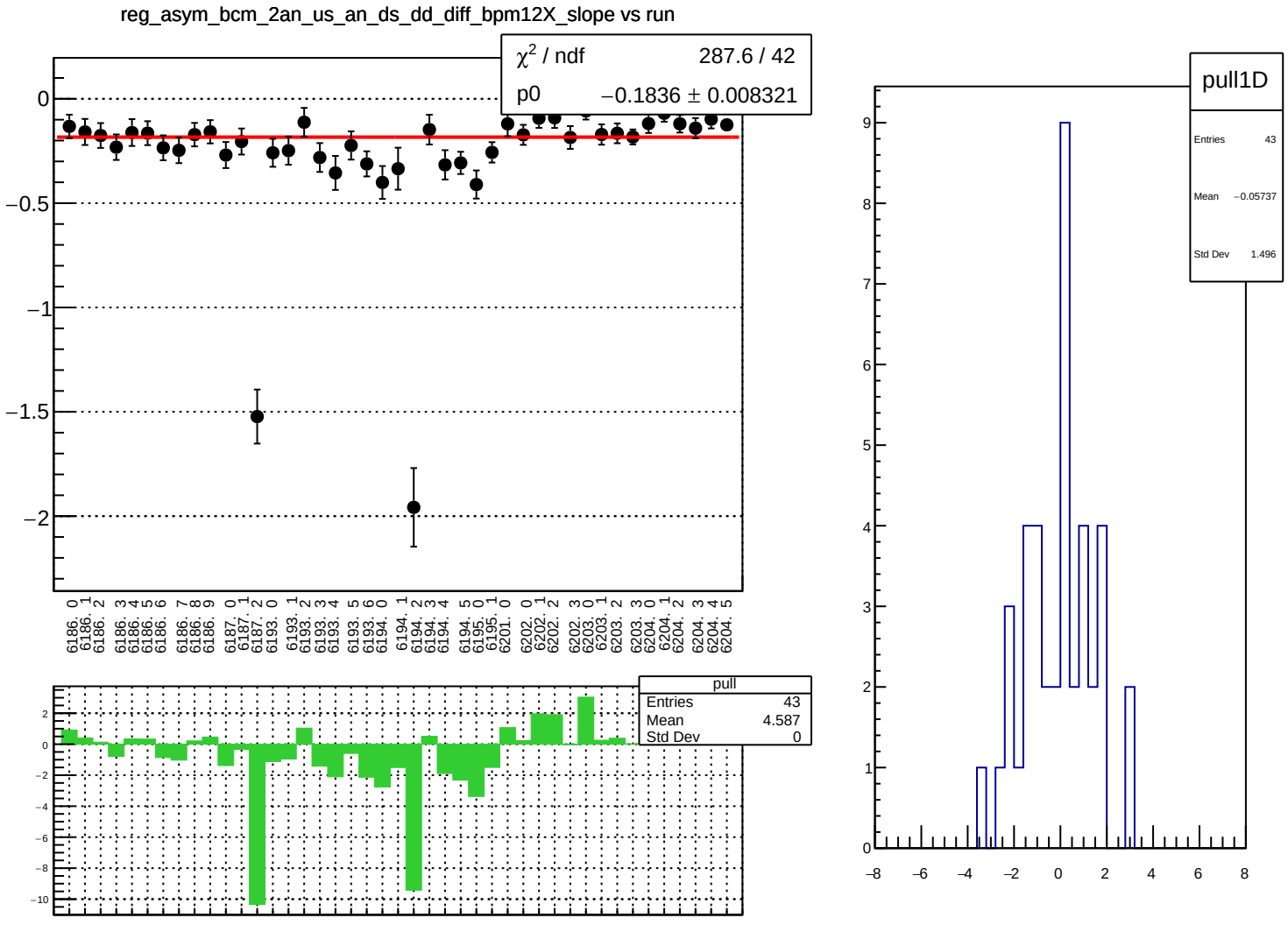

pull1D
Entries 43
Mean −0.05945
Std Dev 1.509

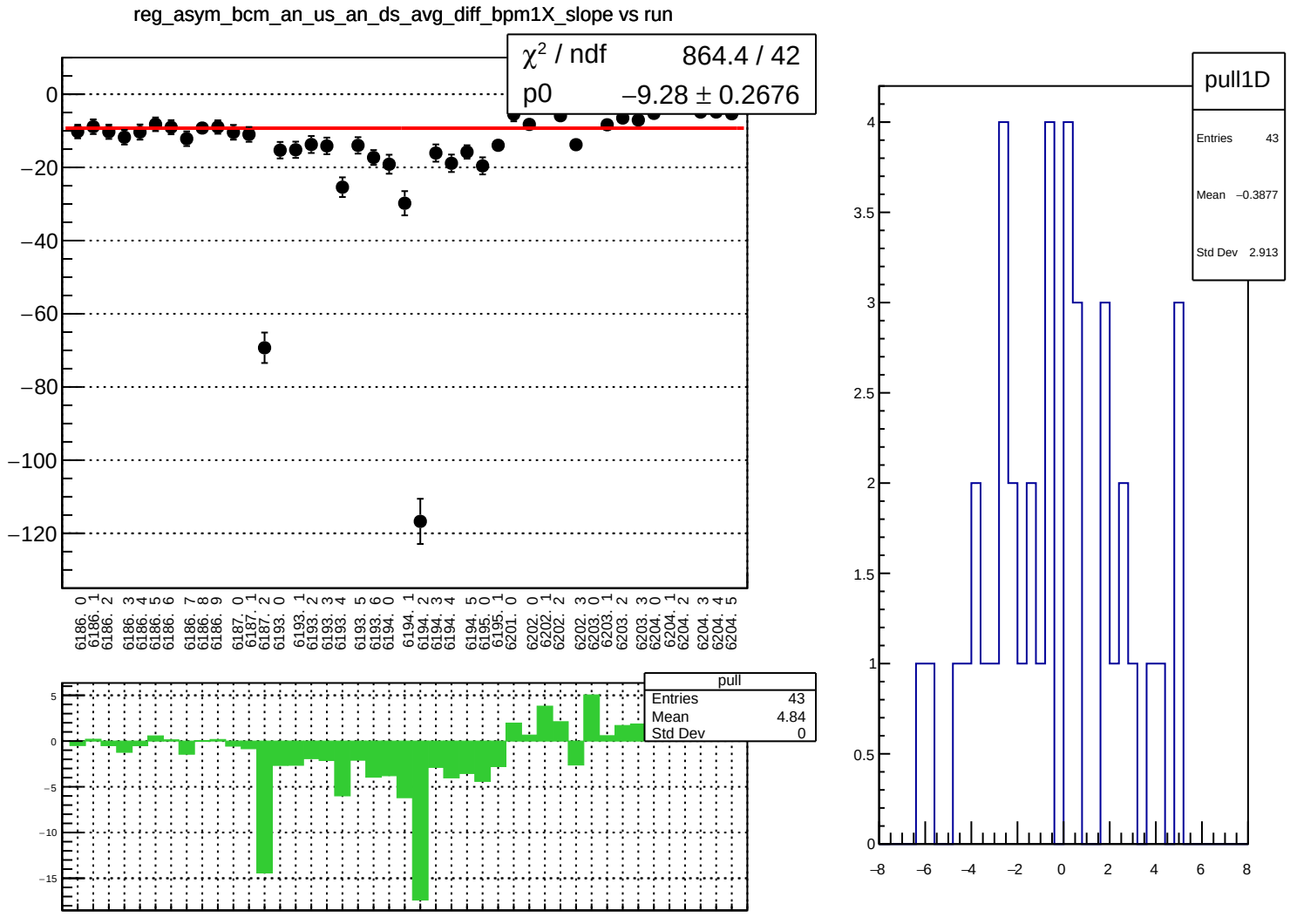

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 845.8 / 42
p0 −3.111 ± 0.09057
pull
Entries 43
Mean 4.917
Std Dev 0
pull1D
Entries 43
Mean −0.3778
Std Dev 2.851

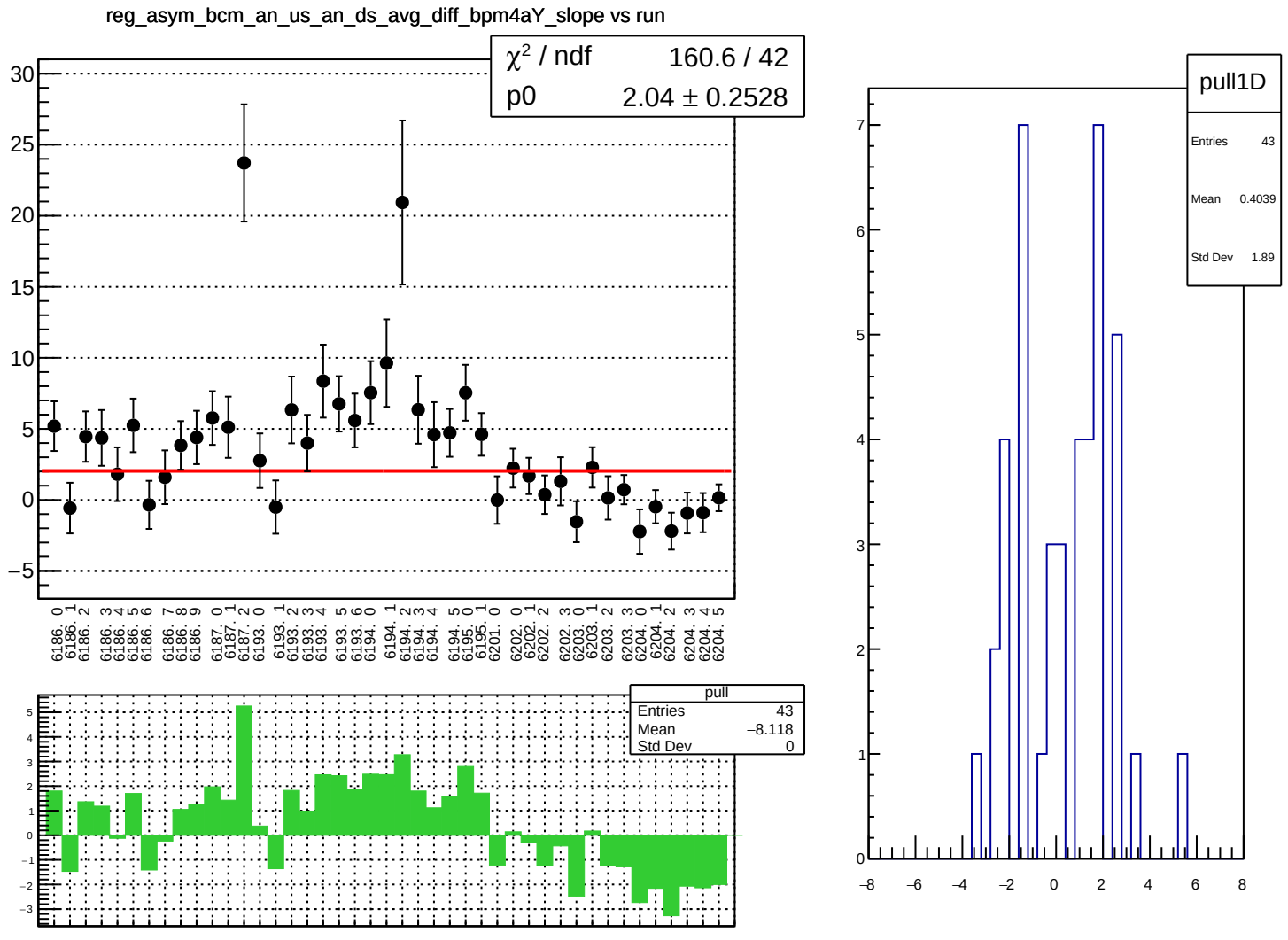

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 155.6 / 42
p0 0.6523 ± 0.08553
pull
Entries 43
Mean −7.781
Std Dev 0
pull1D
Entries 43
Mean 0.3904
Std Dev 1.862

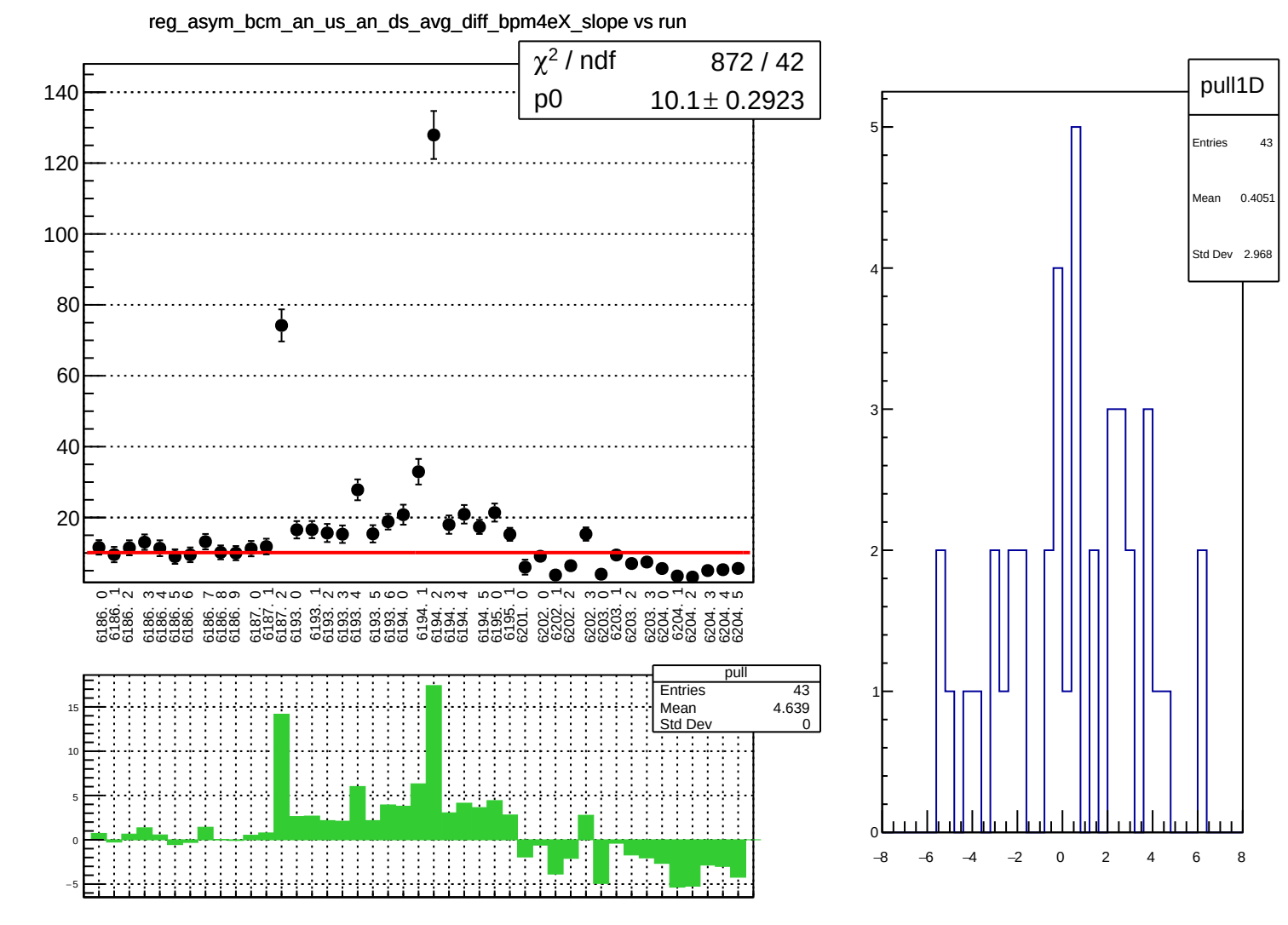

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 851.5 / 42
p0 3.368 ± 0.09891
pull
Entries 43
Mean 4.768
Std Dev 0
pull1D
Entries 43
Mean 0.394
Std Dev 2.9

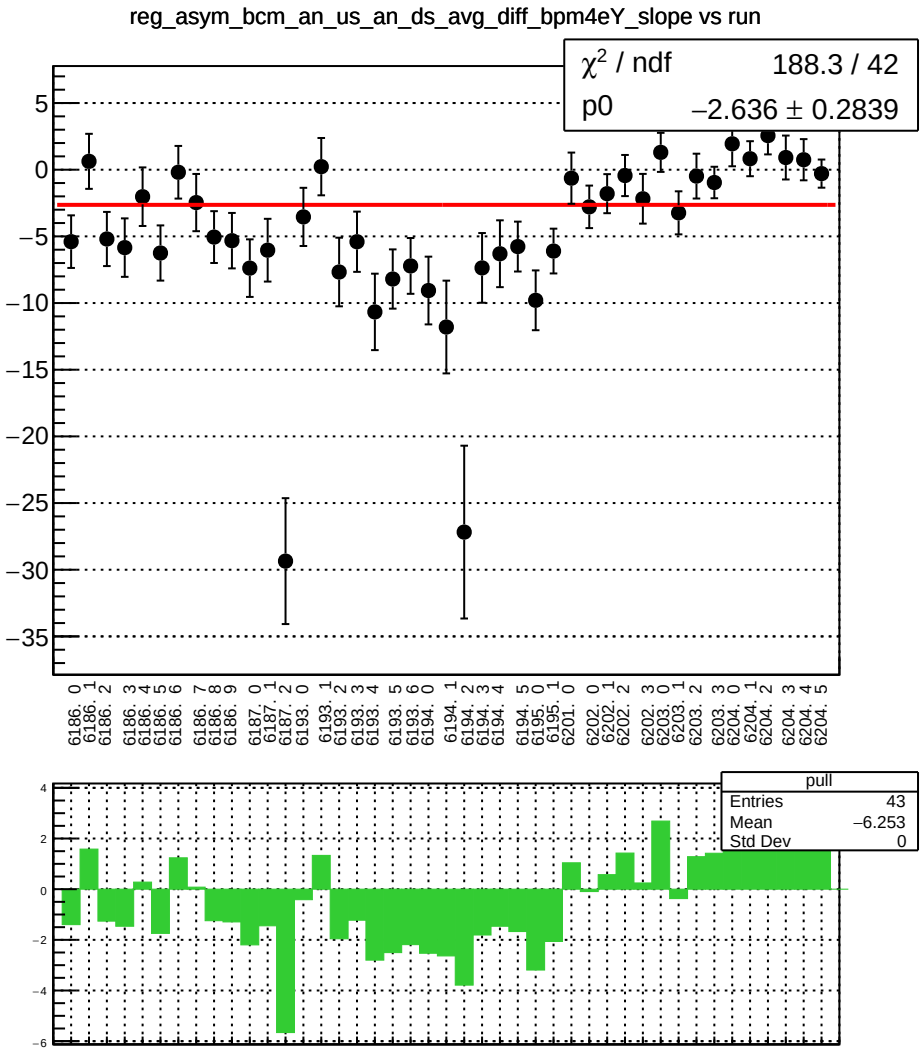

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 184.1 / 42
p0 −0.8552 ± 0.09607
pull
Entries 43
Mean −5.941
Std Dev 0
pull1D
Entries 43
Mean −0.4446
Std Dev 2.021

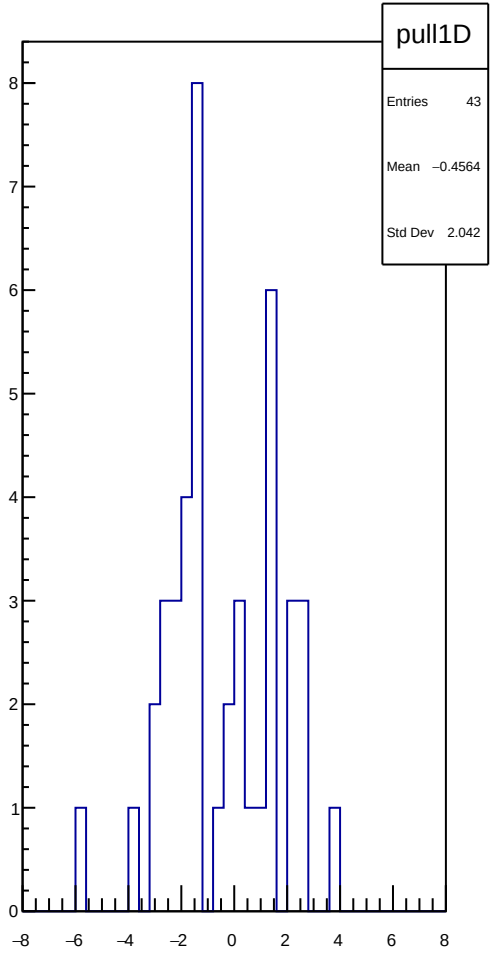

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 287.6 / 42
p0 −0.1836 ± 0.008321
0
−0.5
−1
−1.5
−2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.587
Std Dev 0
2
0
−2
−4
−6
−8
−10
pull1D
Entries 43
Mean −0.05737
Std Dev 1.496
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

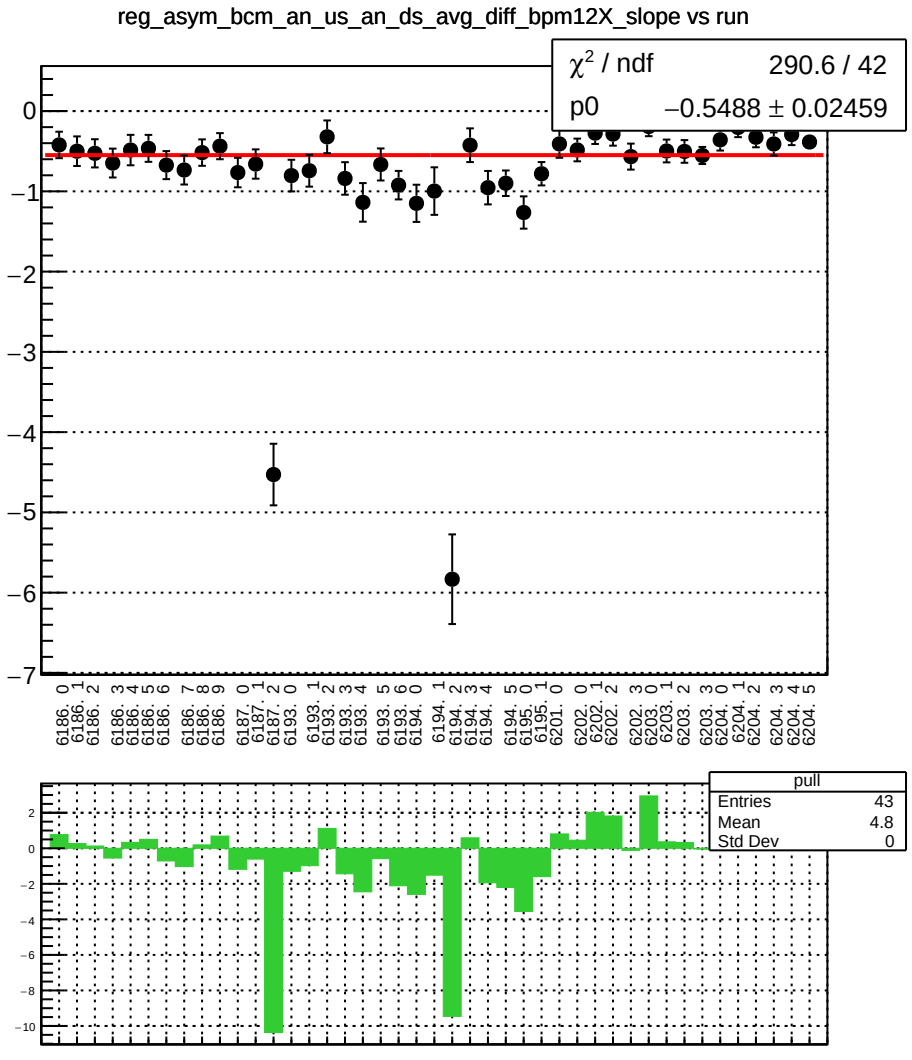

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 864.4 / 42
p0 −9.28 ± 0.2676
0
−20
−40
−60
−80
−100
−120
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 4.84
Std Dev 0
5
0
−5
−10
−15
pull1D
Entries 43
Mean −0.3877
Std Dev 2.913
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

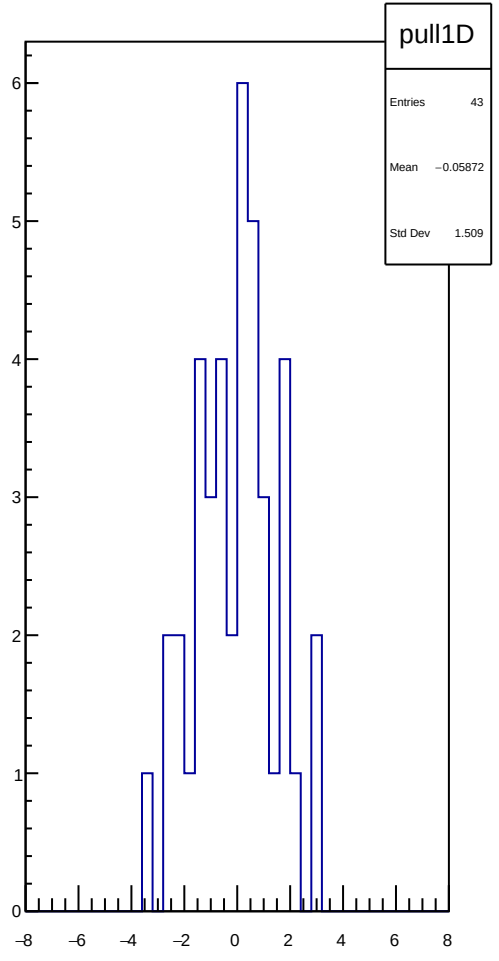

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 160.6 / 42
p0 2.04 ± 0.2528
30
25
20
15
10
5
0
−5
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −8.118
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean 0.4039
Std Dev 1.89
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

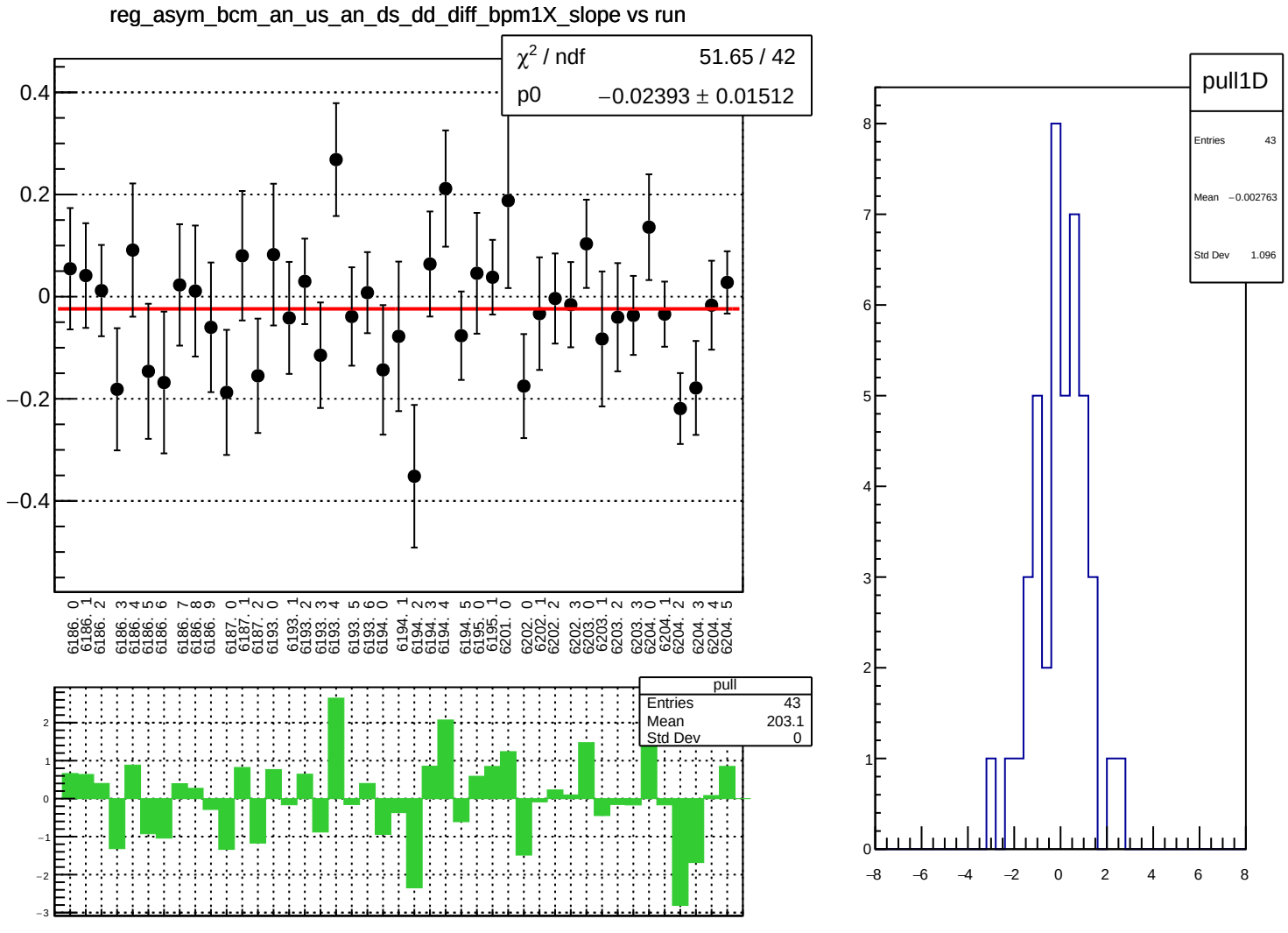

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 872 / 42
p0 10.1 ± 0.2923
pull
Entries 43
Mean 4.639
Std Dev 0
pull1D
Entries 43
Mean 0.4051
Std Dev 2.968

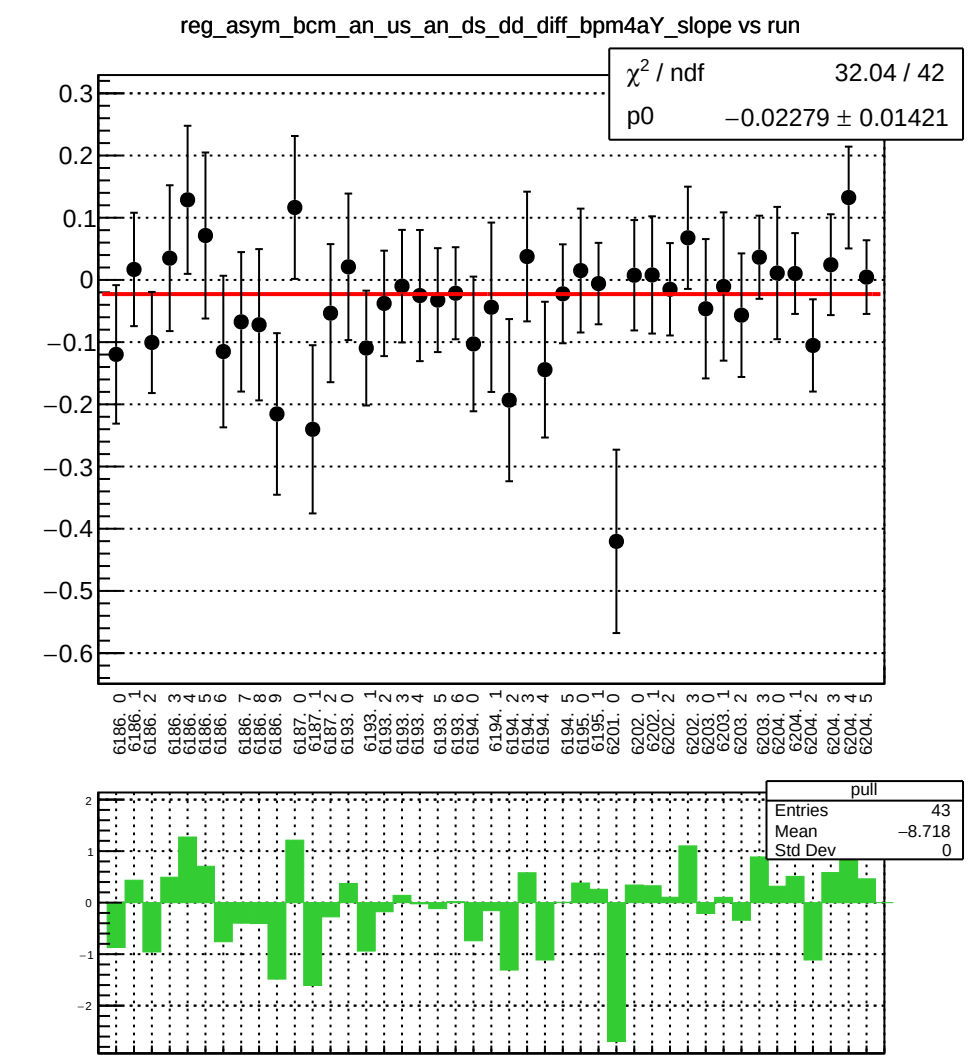

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 188.3 / 42
p0 −2.636 ± 0.2839
pull
Entries 43
Mean −6.253
Std Dev 0

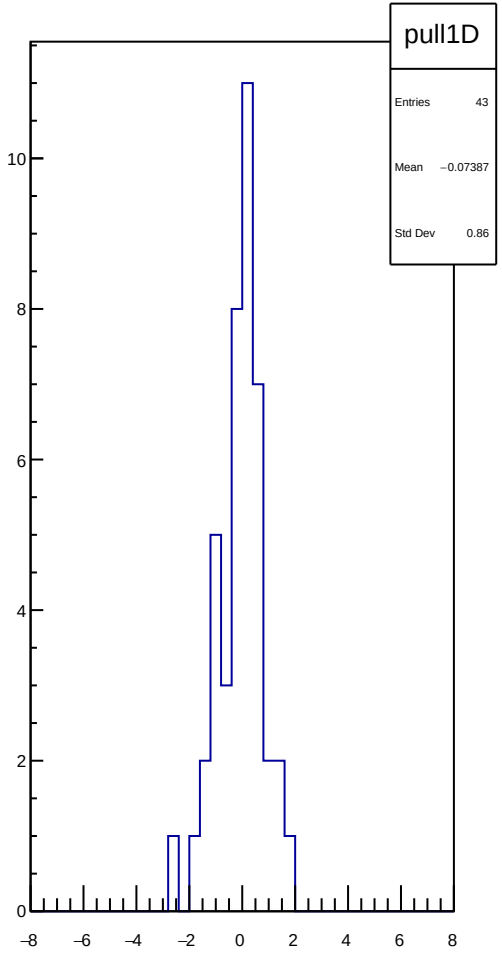

pull1D
Entries 43
Mean −0.4564
Std Dev 2.042

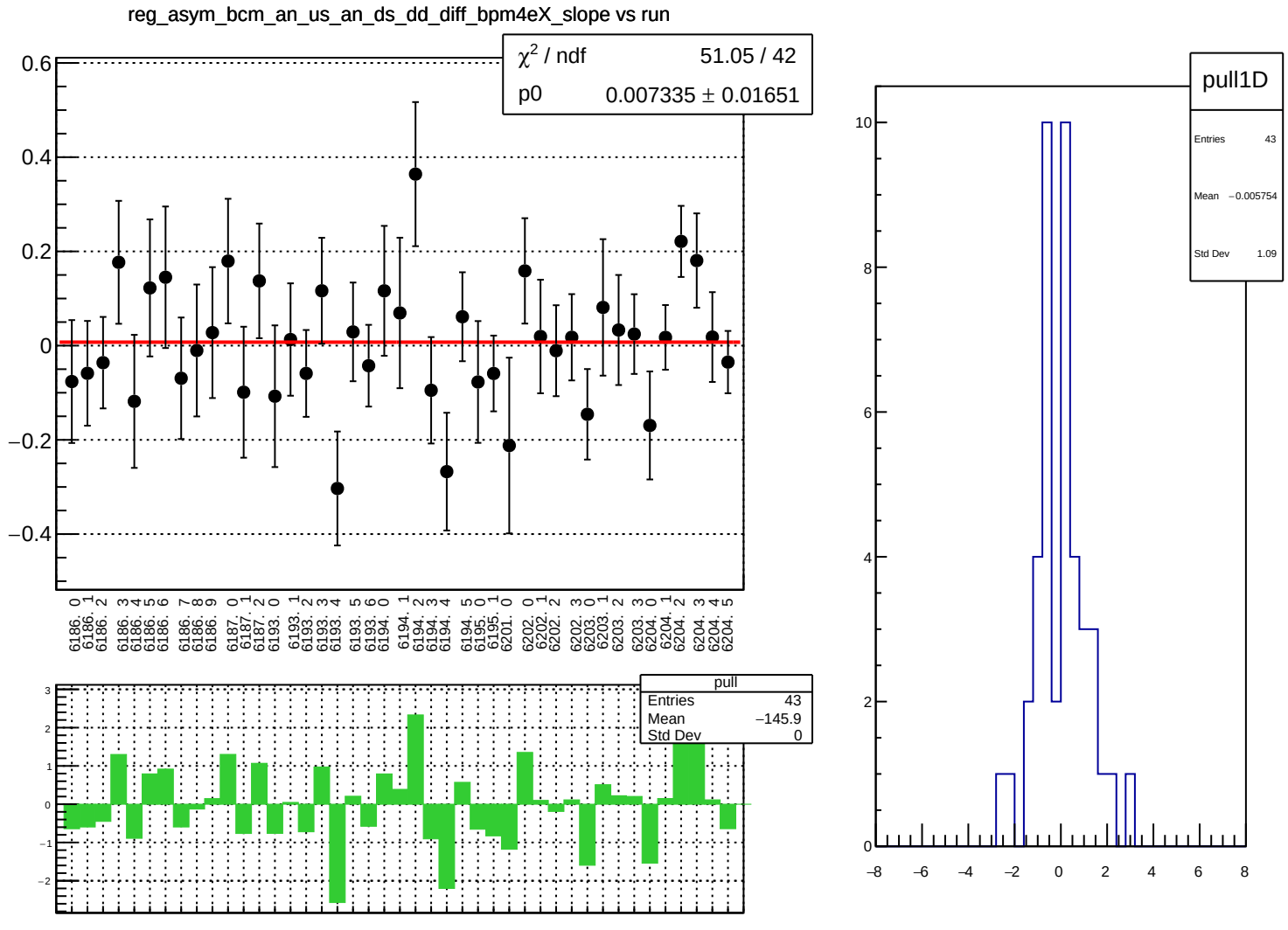

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 290.6 / 42
p0 −0.5488 ± 0.02459
pull
Entries 43
Mean 4.8
Std Dev 0

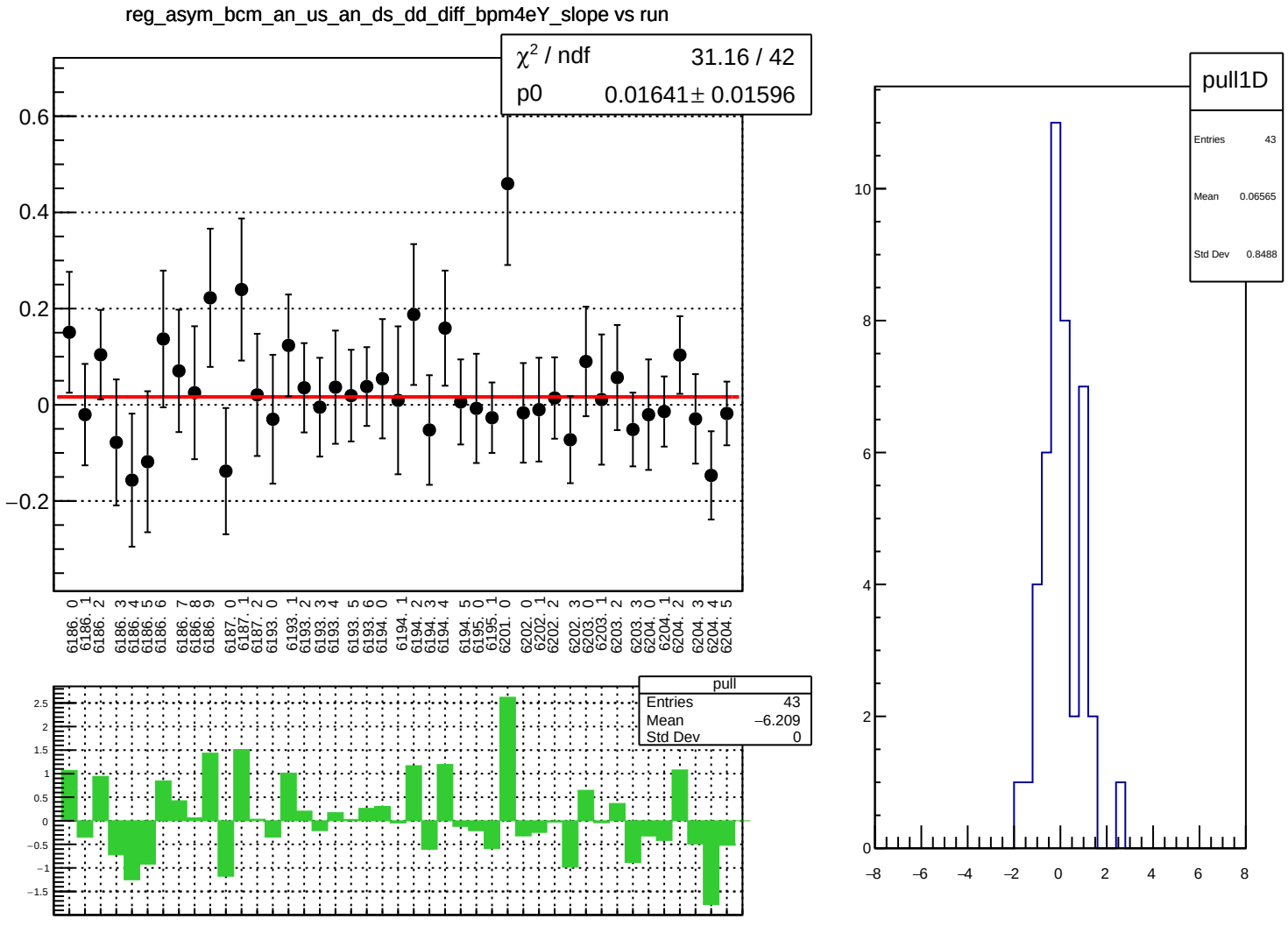

pull1D
Entries 43
Mean −0.05872
Std Dev 1.509

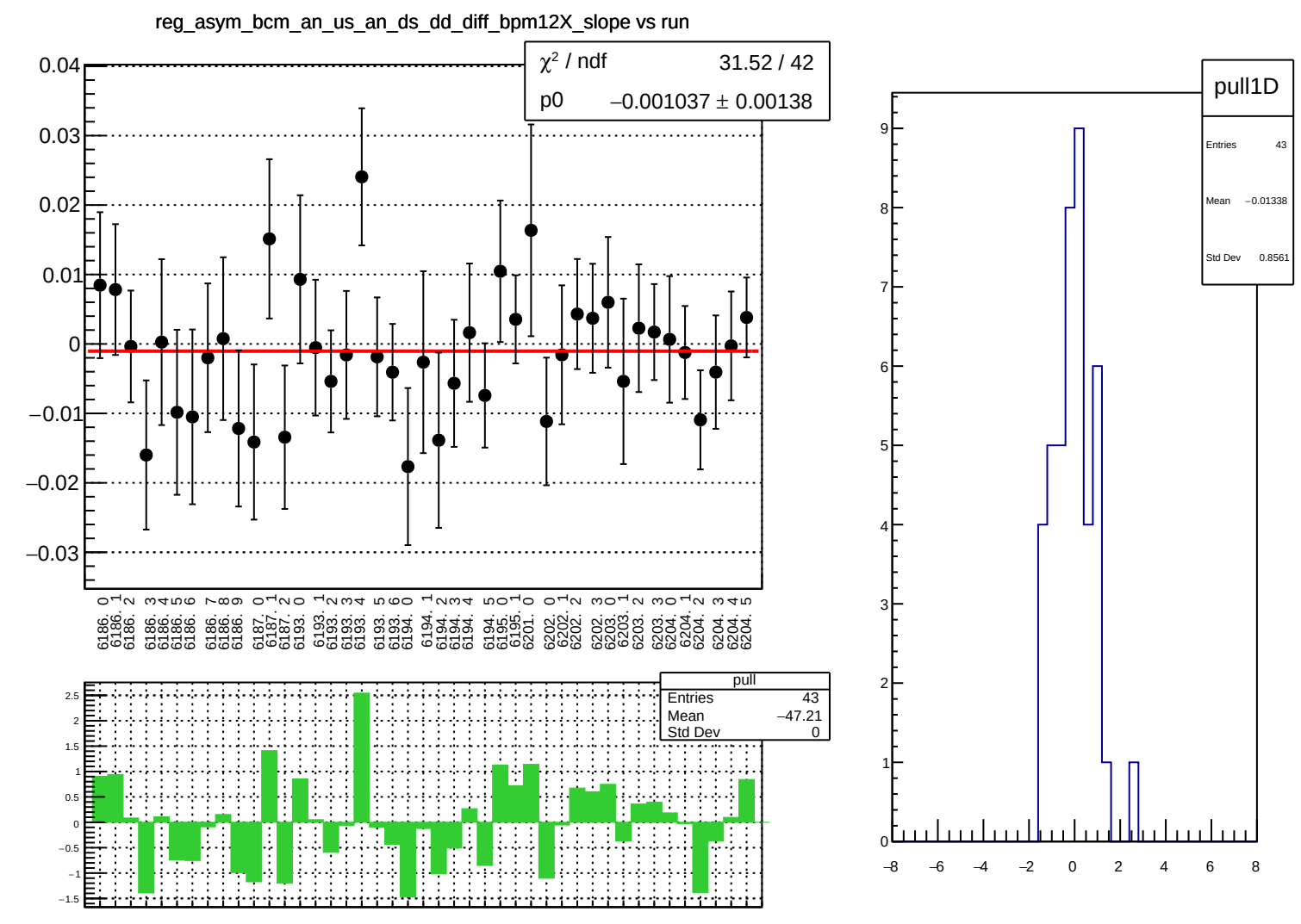

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 51.65 / 42
p0 −0.02393 ± 0.01512
0.4
0.2
0
−0.2
−0.4
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 203.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 43
Mean −0.002763
Std Dev 1.096
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

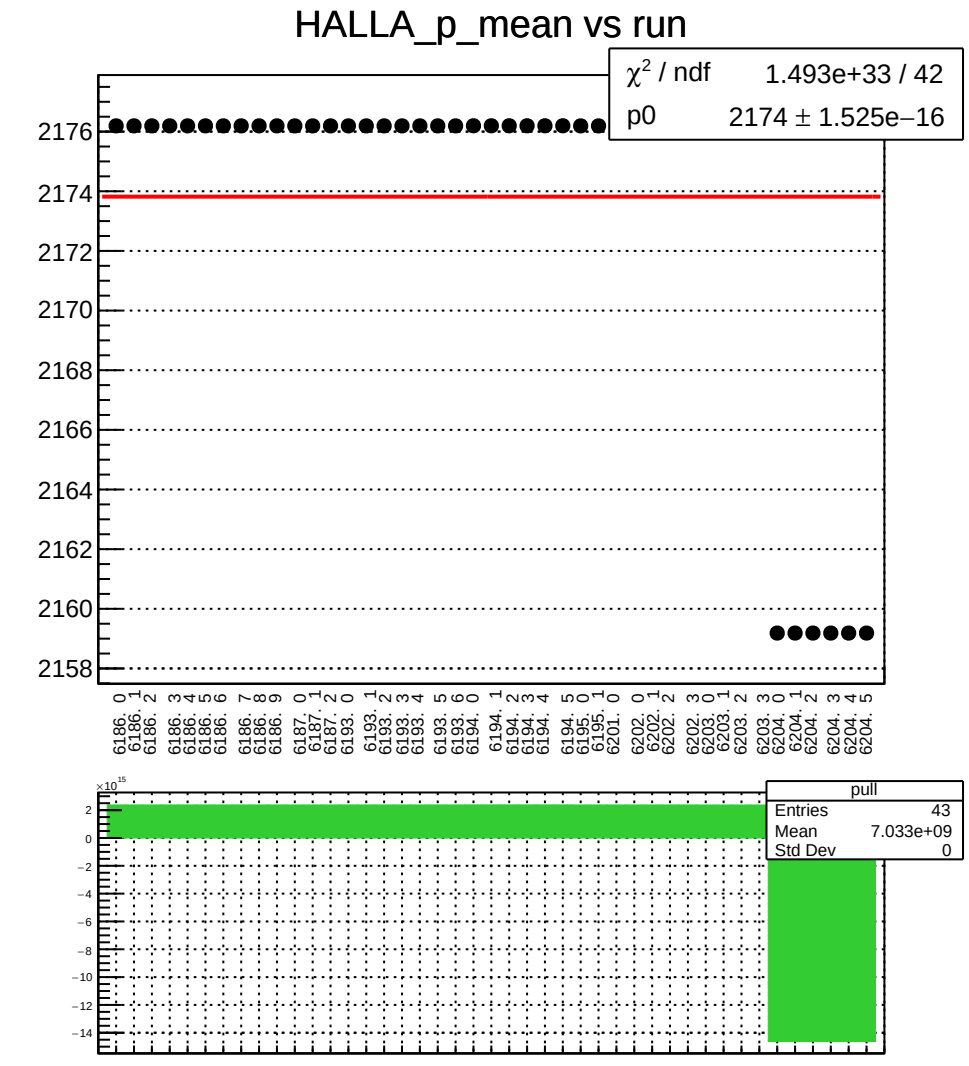

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.04 / 42
p0 −0.02279 ± 0.01421
pull
Entries 43
Mean −8.718
Std Dev 0

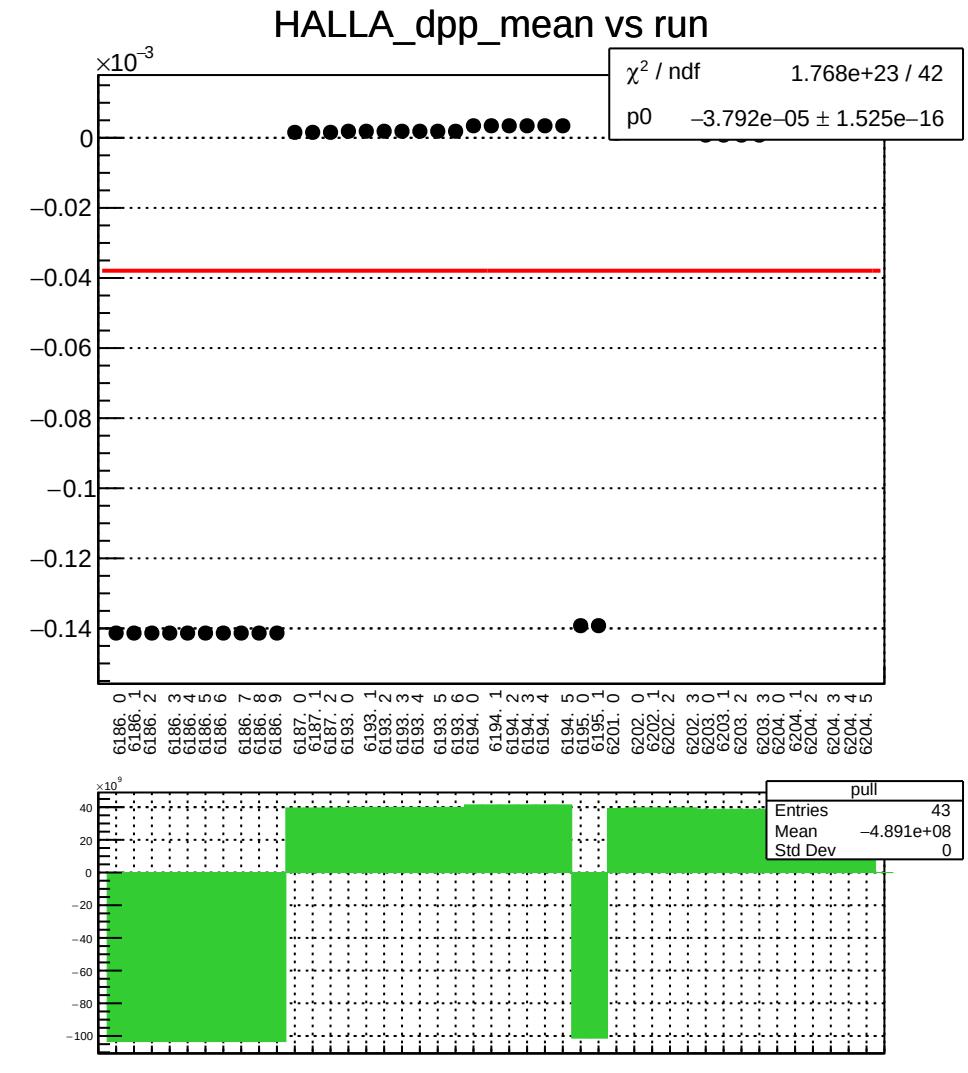

pull1D
Entries 43
Mean −0.07387
Std Dev 0.86

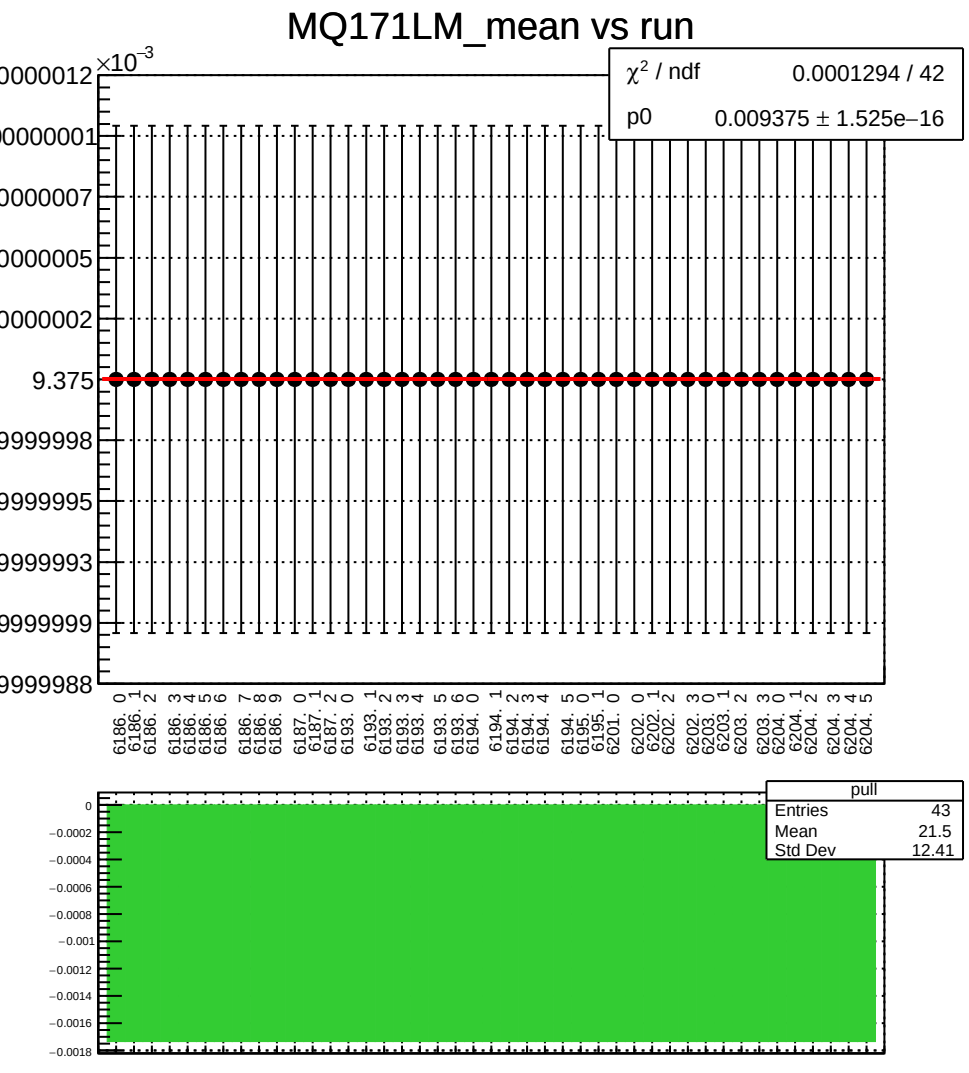

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.05 / 42
p0 0.007335 ± 0.01651
pull
Entries 43
Mean −145.9
Std Dev 0
pull1D
Entries 43
Mean −0.005754
Std Dev 1.09

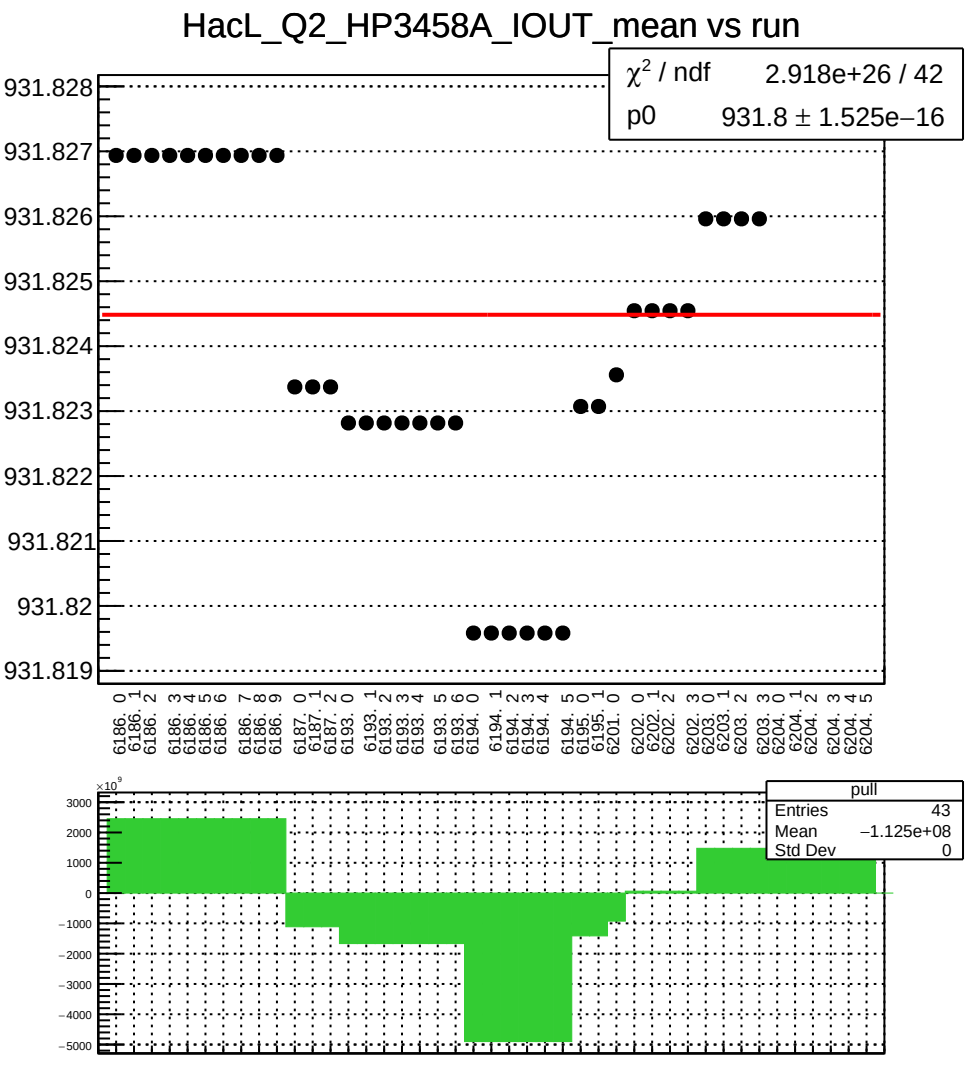

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.16 / 42
p0 0.01641 ± 0.01596
0.6
0.4
0.2
0
−0.2
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −6.209
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean 0.06565
Std Dev 0.8488
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

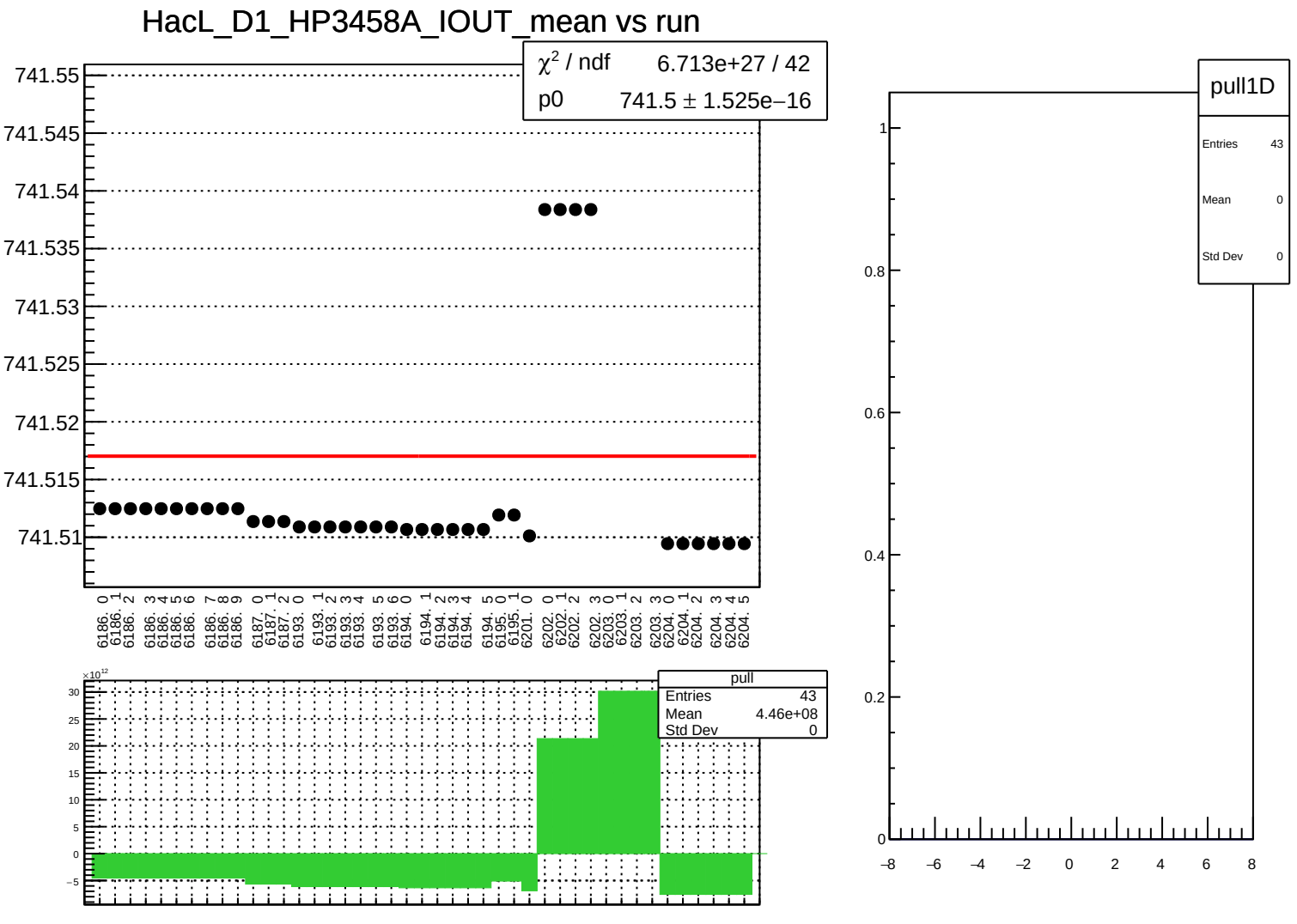

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 31.52 / 42
p0 −0.001037 ± 0.00138
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean −47.21
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 43
Mean −0.01338
Std Dev 0.8561
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

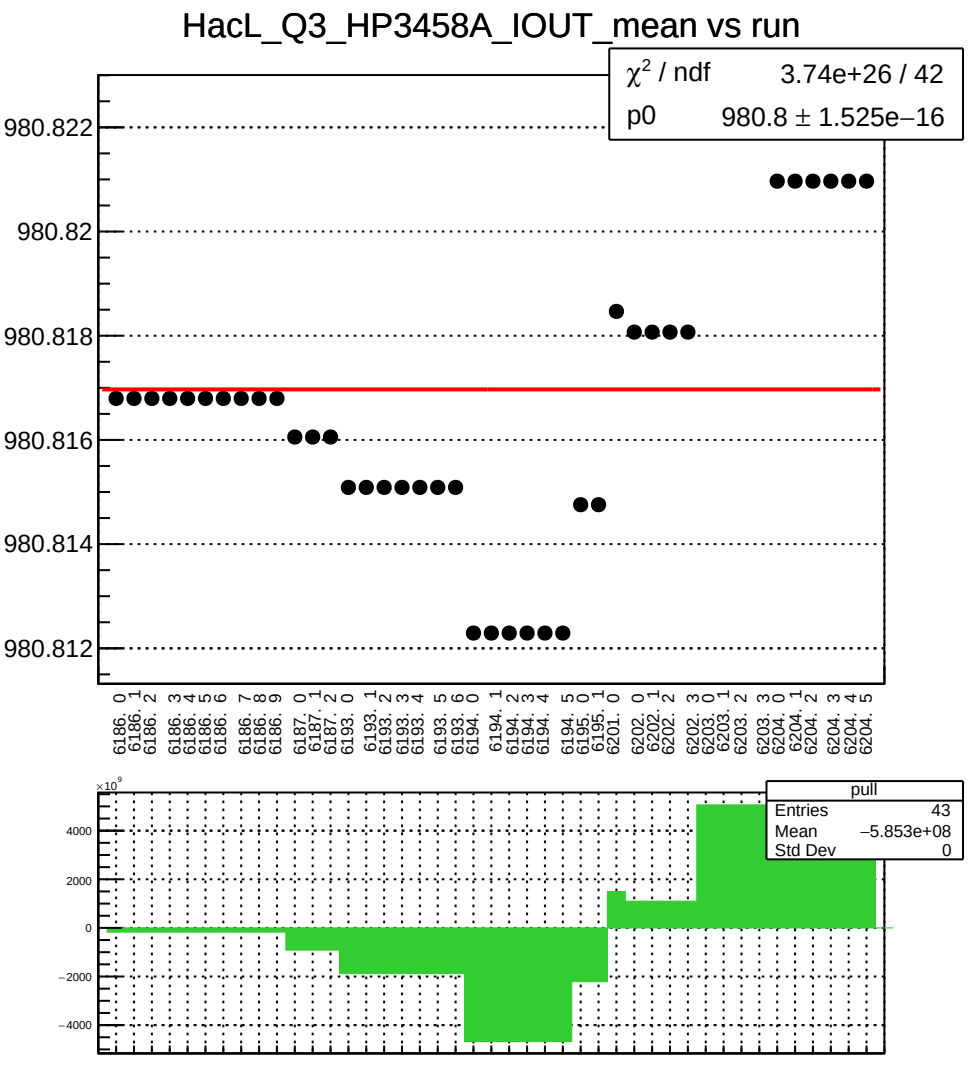

HALLA_p_mean vs run
χ² / ndf 1.493e+33 / 42
p0 2174 ± 1.525e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 43
Mean 7.033e+09
Std Dev 0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

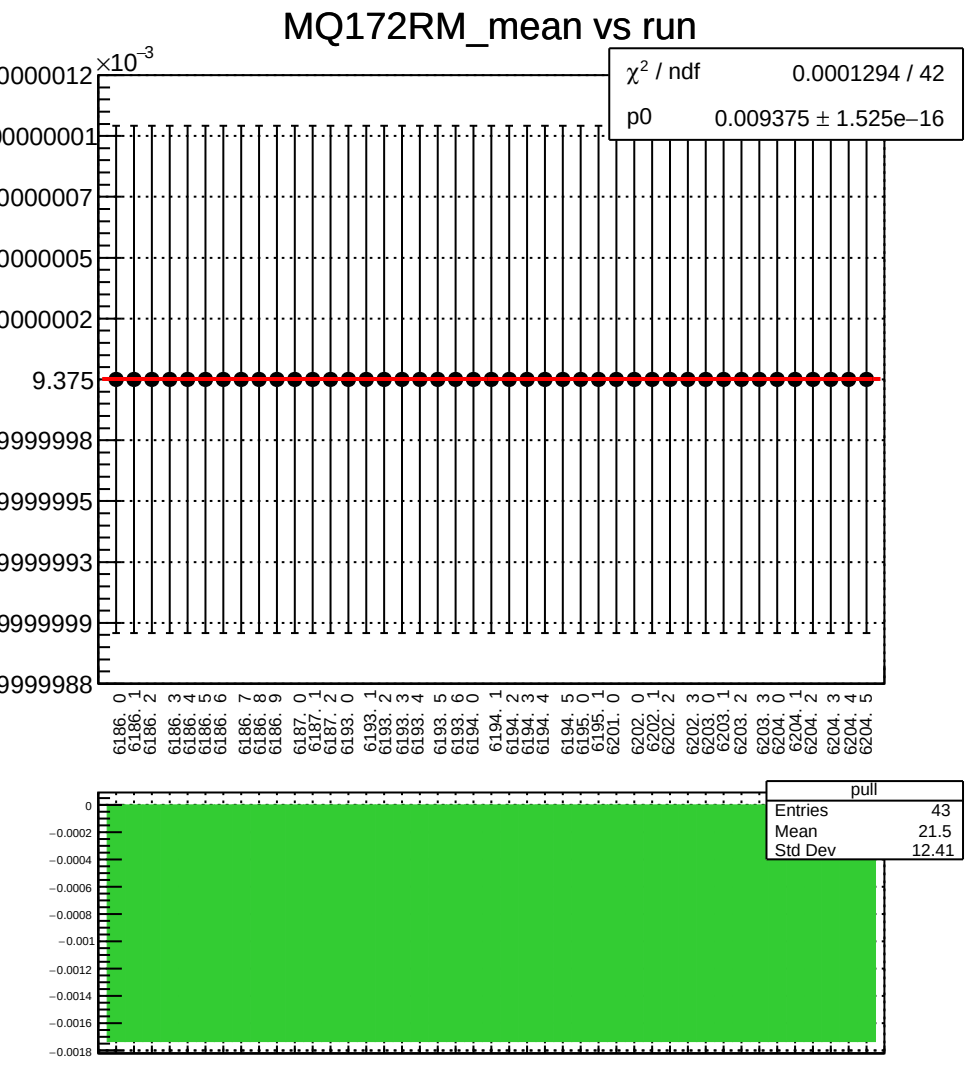

HALLA_dpp_mean vs run
χ² / ndf 1.768e+23 / 42
p0 −3.792e−05 ± 1.525e−16
×10⁻³
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
×10⁹
40
20
0
−20
−40
−60
−80
−100
pull
Entries 43
Mean −4.891e+08
Std Dev 0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

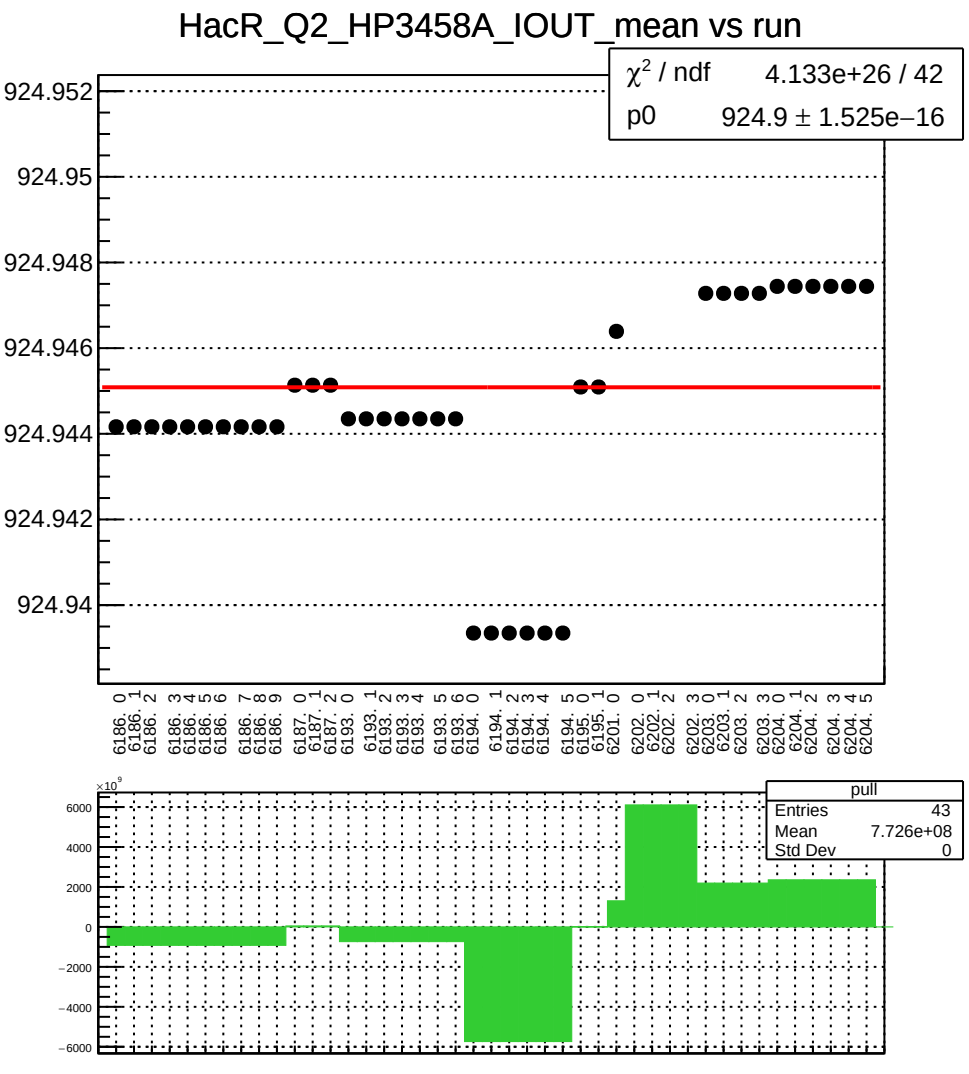

MQ171LM_mean vs run
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
×10⁻³
9.375
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −0.001735
Std Dev 0

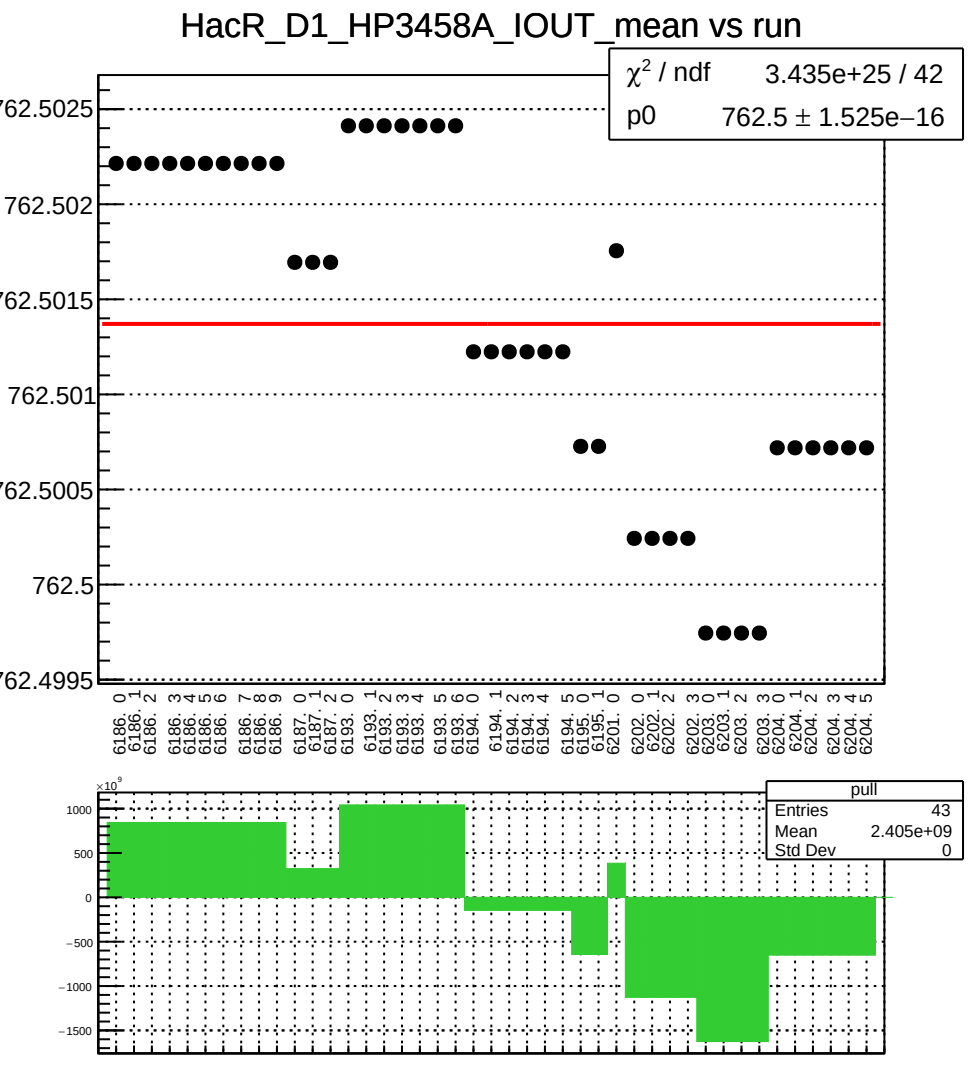

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.918e+26 / 42
p0 931.8 ± 1.525e−16
931.828
931.827
931.826
931.825
931.824
931.823
931.822
931.821
931.82
931.819
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 43
Mean −1.125e+08
Std Dev 0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

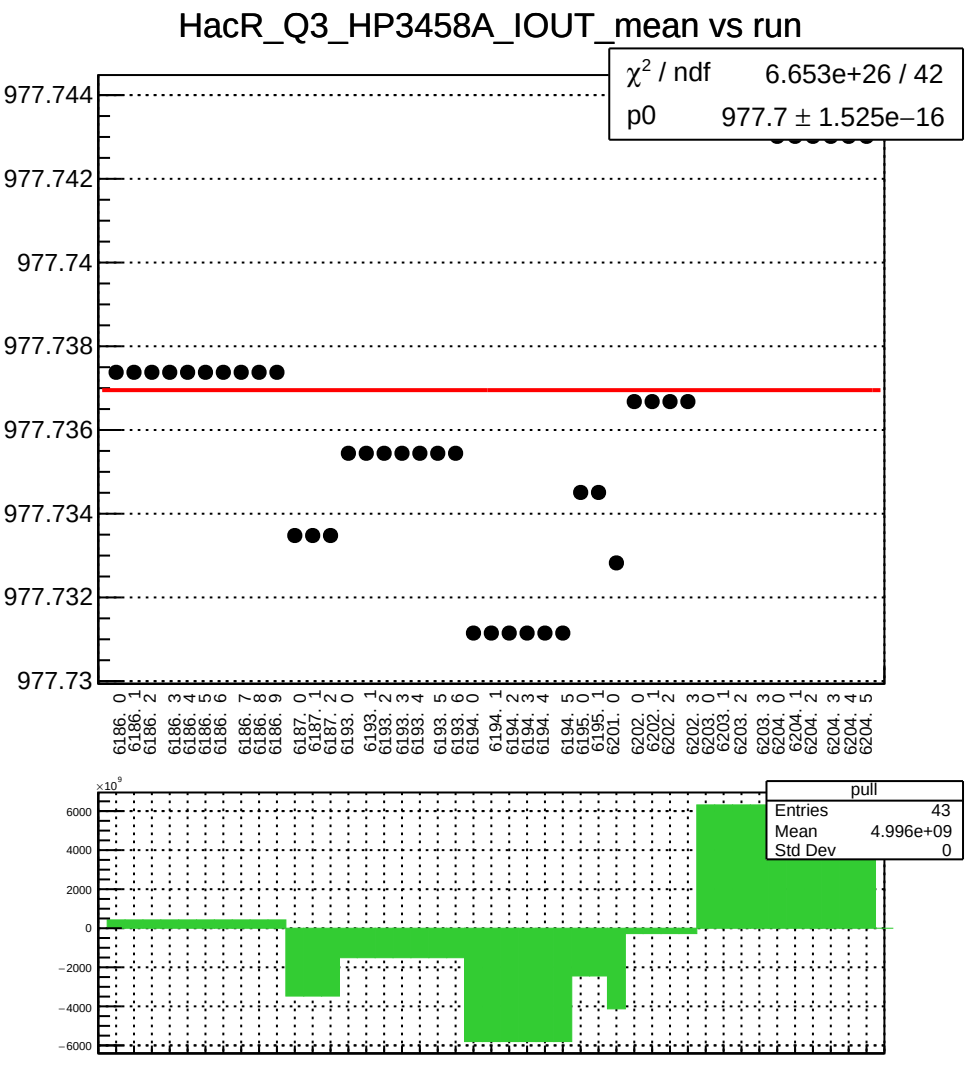

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 6.713e+27 / 42
p0 741.5 ± 1.525e−16
741.55
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
×10¹²
30
25
20
15
10
5
0
−5
pull
Entries 43
Mean 4.46e+08
Std Dev 0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

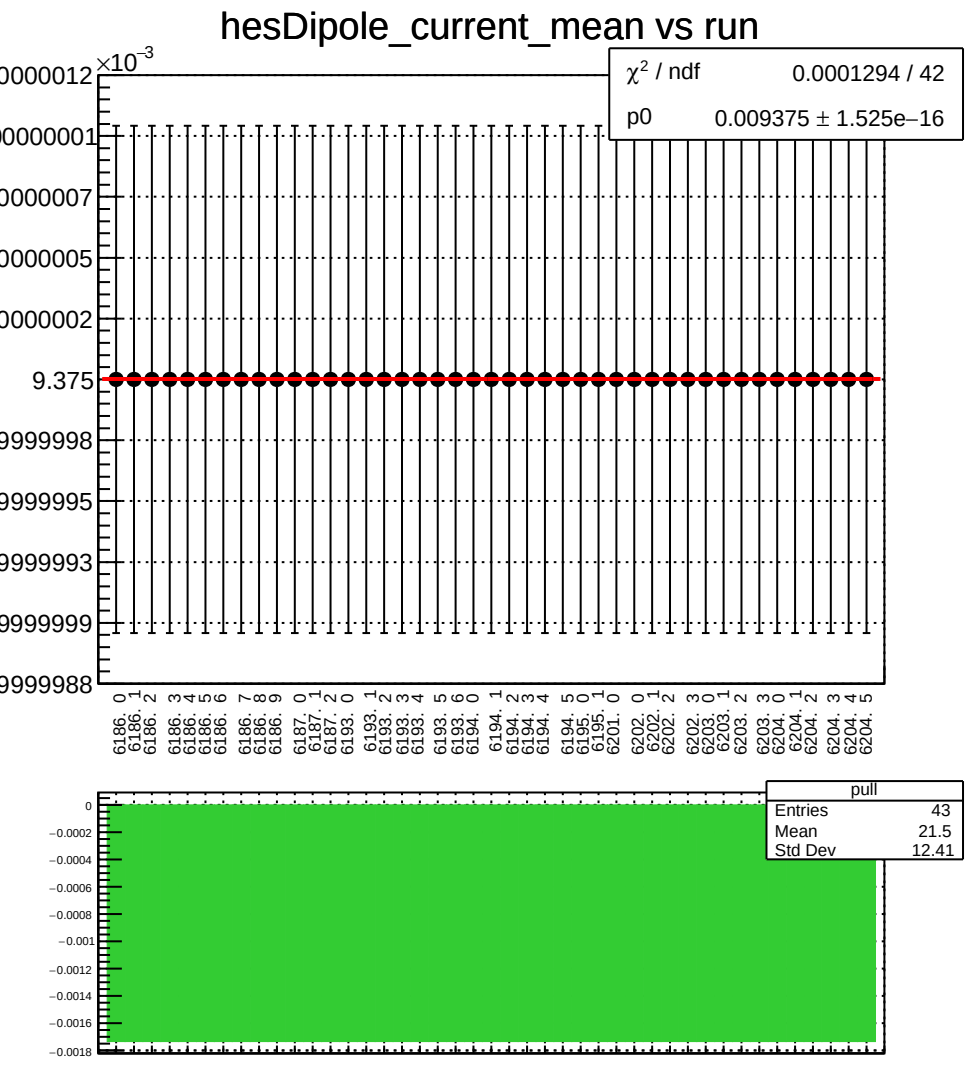

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.74e+26 / 42
p0 980.8 ± 1.525e−16
980.822
980.82
980.818
980.816
980.814
980.812
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
×10⁹
4000
2000
0
−2000
−4000
pull
Entries 43
Mean −5.853e+08
Std Dev 0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

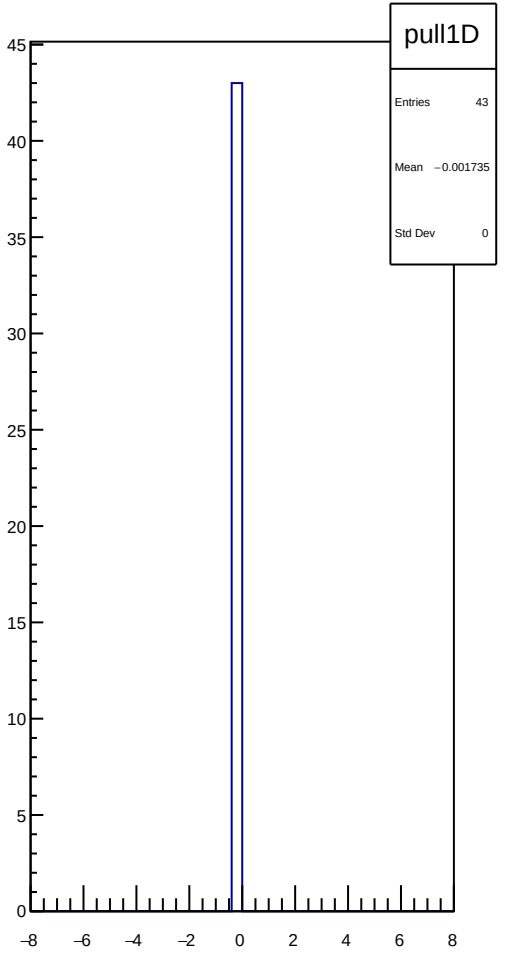

MQ172RM_mean vs run
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
×10⁻³
9.375
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 21.5
Std Dev 12.41
pull1D
Entries 43
Mean −0.001735
Std Dev 0

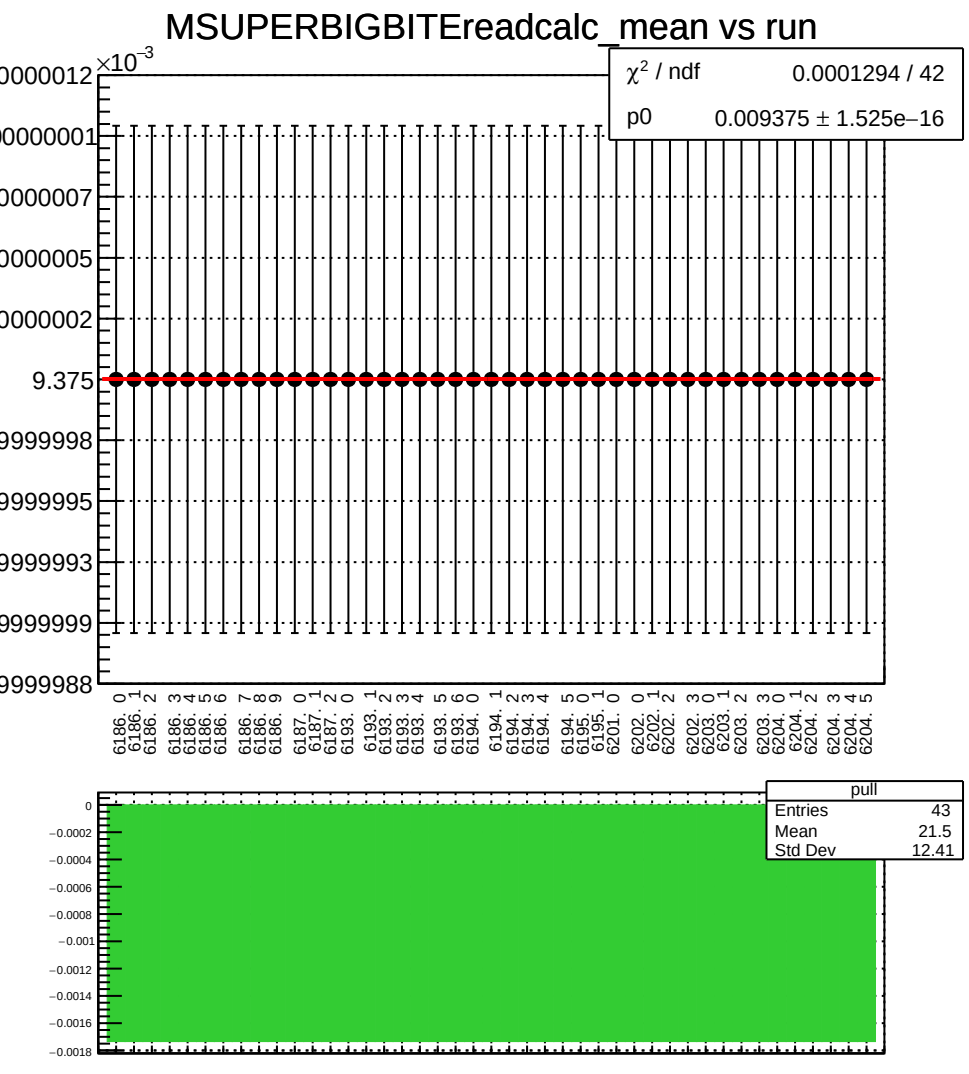

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.133e+26 / 42
p0 924.9 ± 1.525e−16
924.952
924.95
924.948
924.946
924.944
924.942
924.94
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
×10⁹
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 43
Mean 7.726e+08
Std Dev 0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

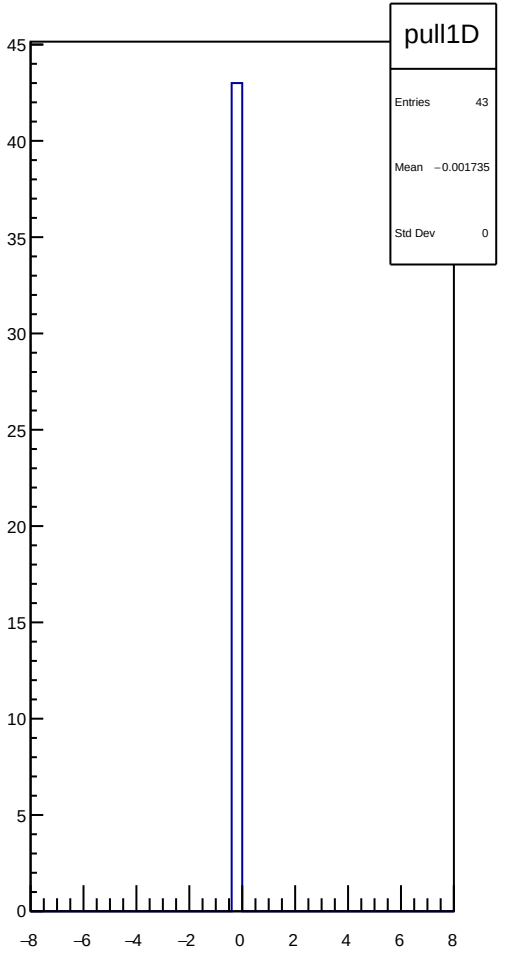

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.435e+25 / 42
p0 762.5 ± 1.525e−16
762.5025
762.502
762.5015
762.501
762.5005
762.5
762.4995
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 2.405e+09
Std Dev 0
×10⁹
1000
500
0
−500
−1000
−1500
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

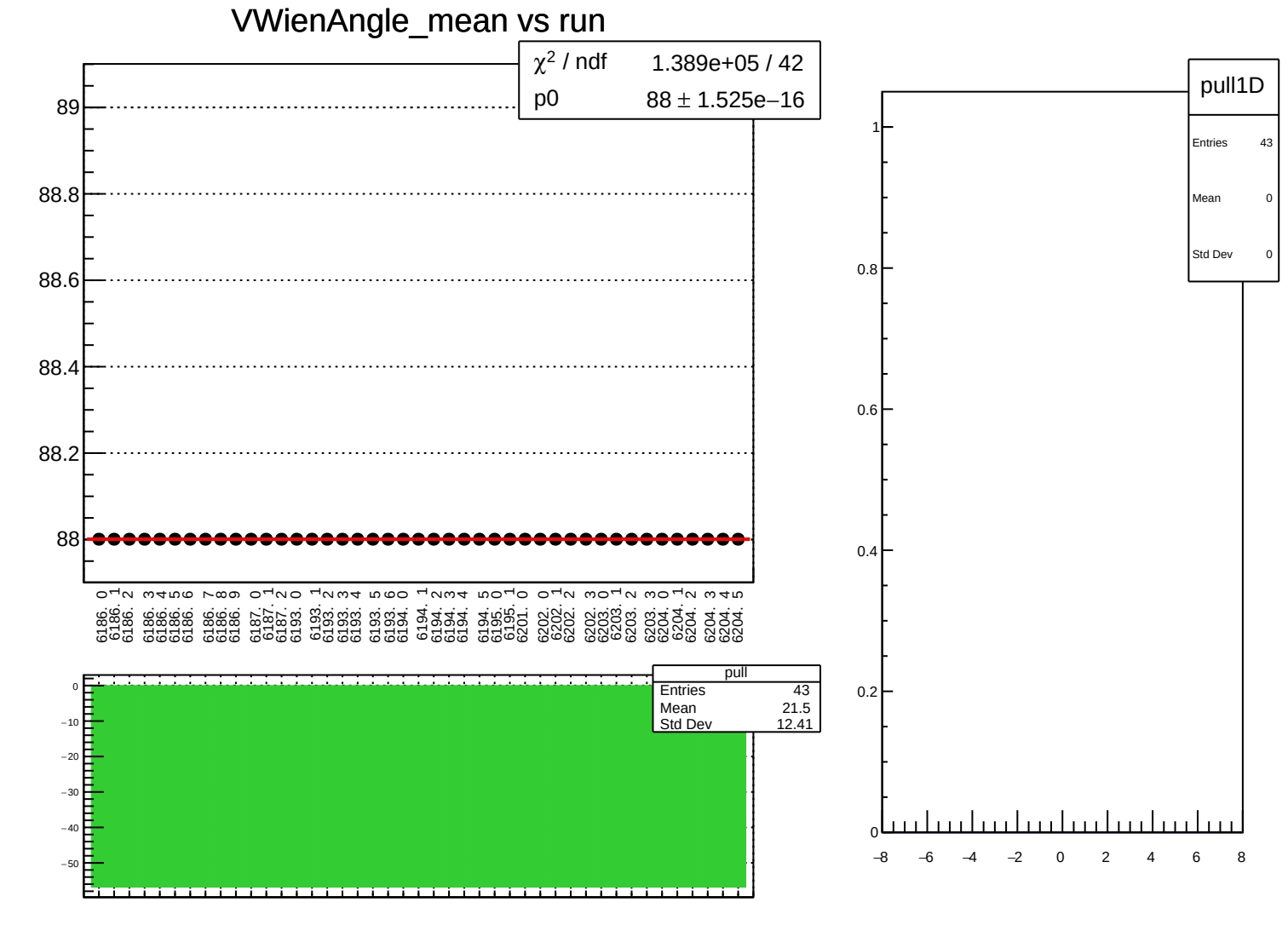

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 6.653e+26 / 42
p0 977.7 ± 1.525e−16
977.744
977.742
977.74
977.738
977.736
977.734
977.732
977.73
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
×10⁹
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 43
Mean 4.996e+09
Std Dev 0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

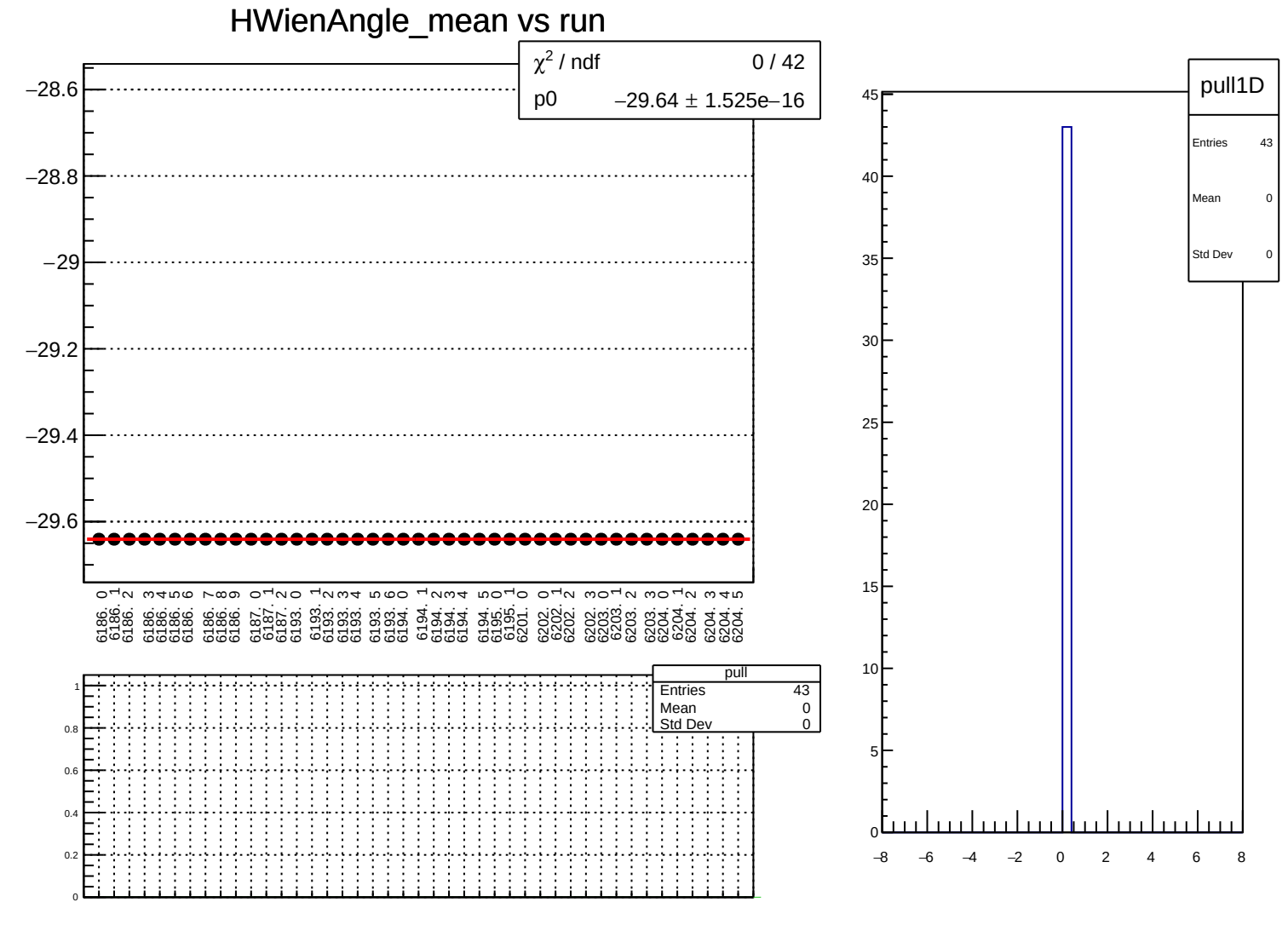

hesDipole_current_mean vs run
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
×10⁻³
pull
Entries 43
Mean 21.5
Std Dev 12.41

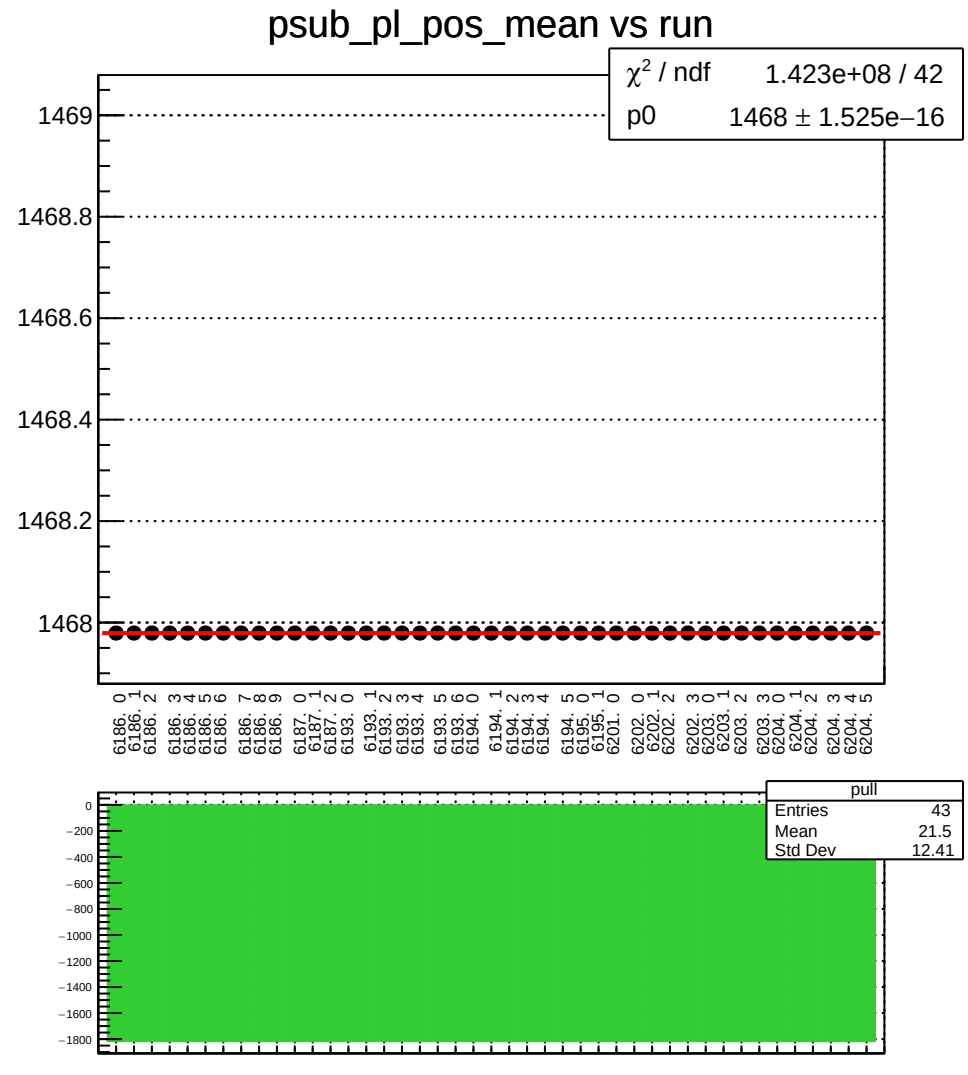

pull1D
Entries 43
Mean −0.001735
Std Dev 0

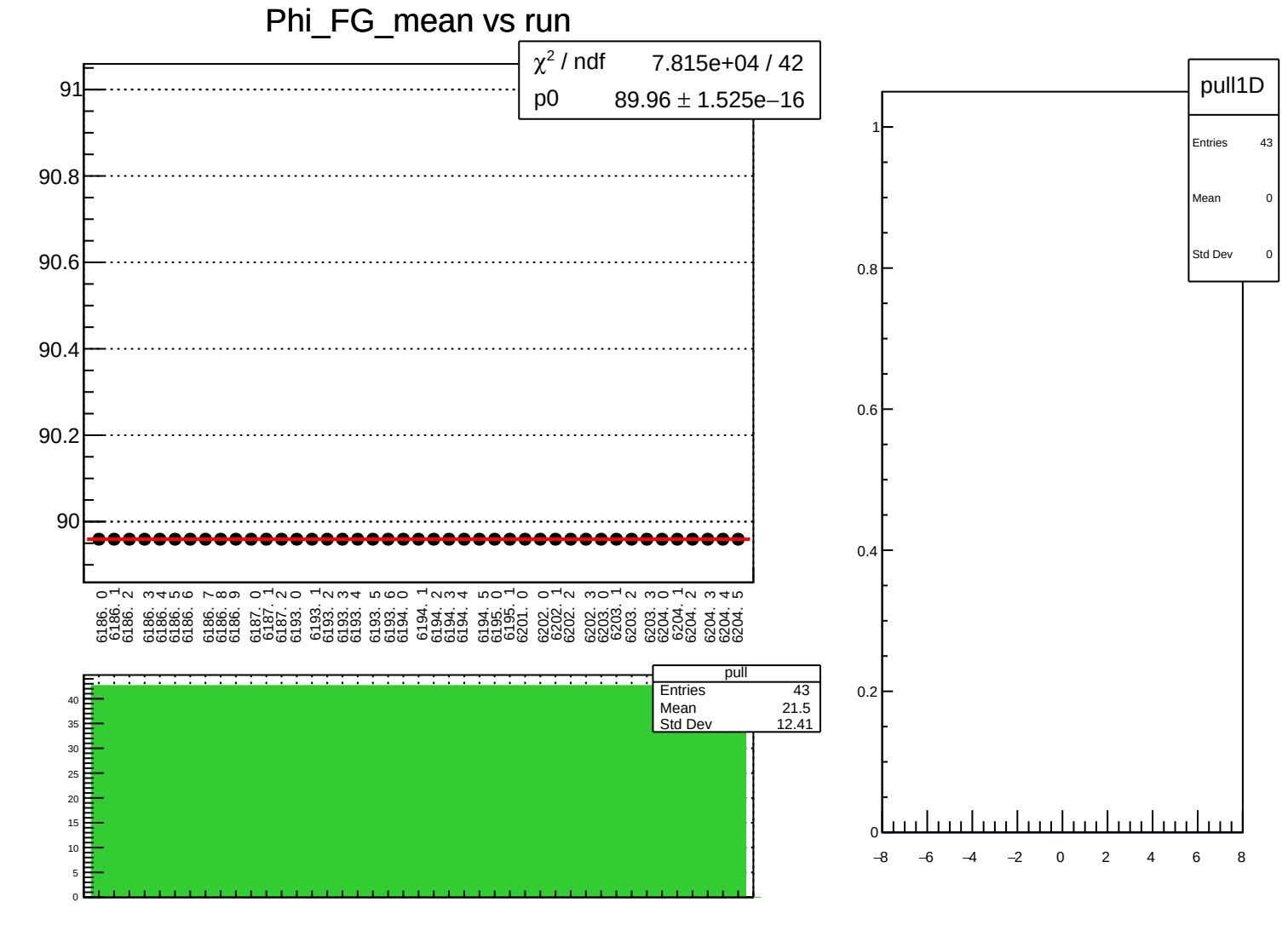

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
×10⁻³
pull
Entries 43
Mean 21.5
Std Dev 12.41

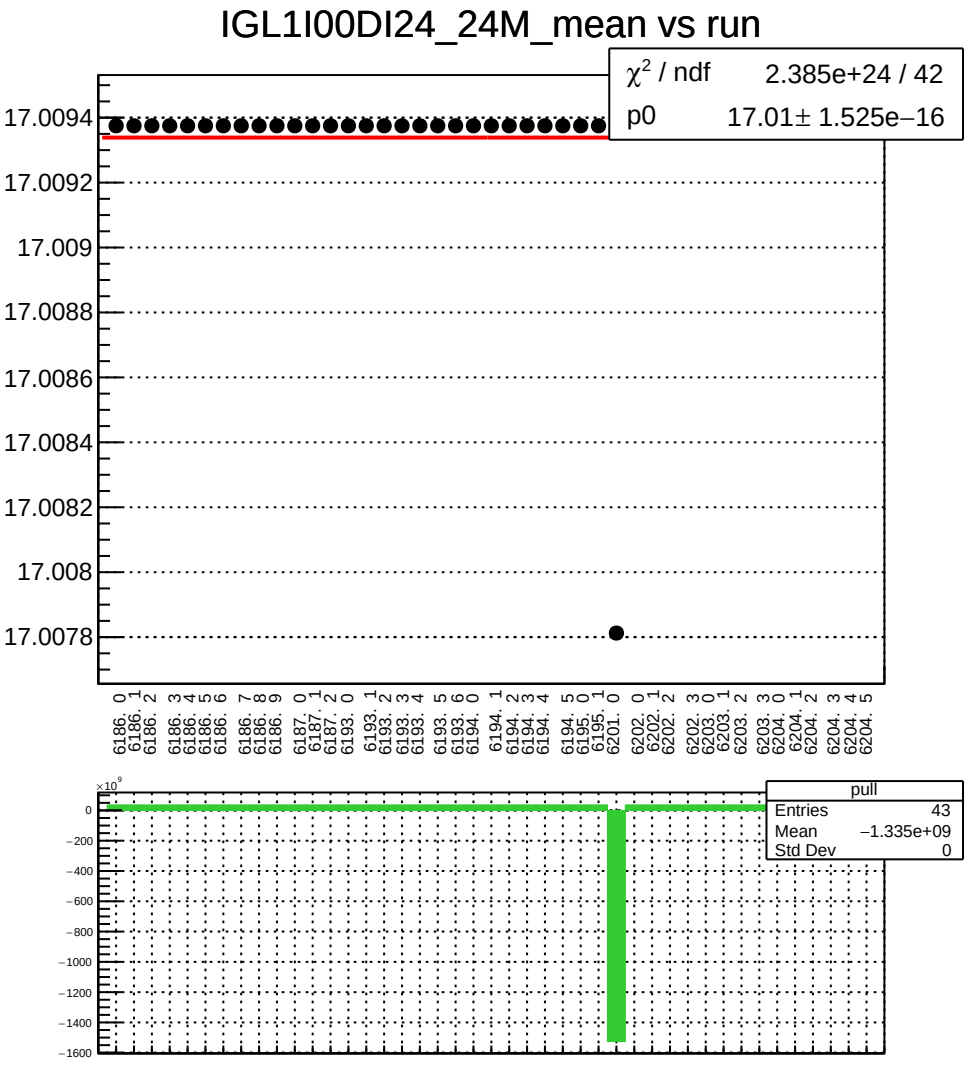

pull1D
Entries 43
Mean −0.001735
Std Dev 0

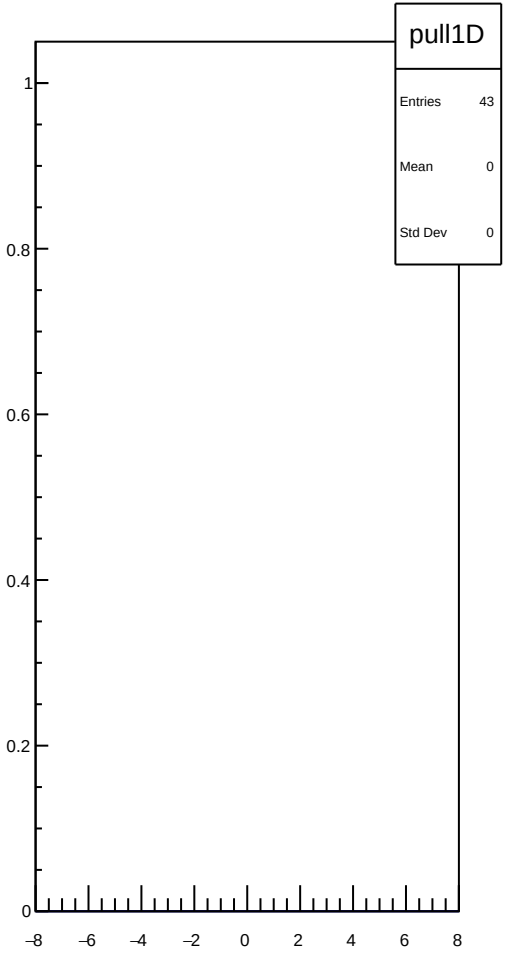

VWienAngle_mean vs run
χ² / ndf 1.389e+05 / 42
p0 88 ± 1.525e−16
89
88.8
88.6
88.4
88.2
88
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 21.5
Std Dev 12.41
0
−10
−20
−30
−40
−50
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

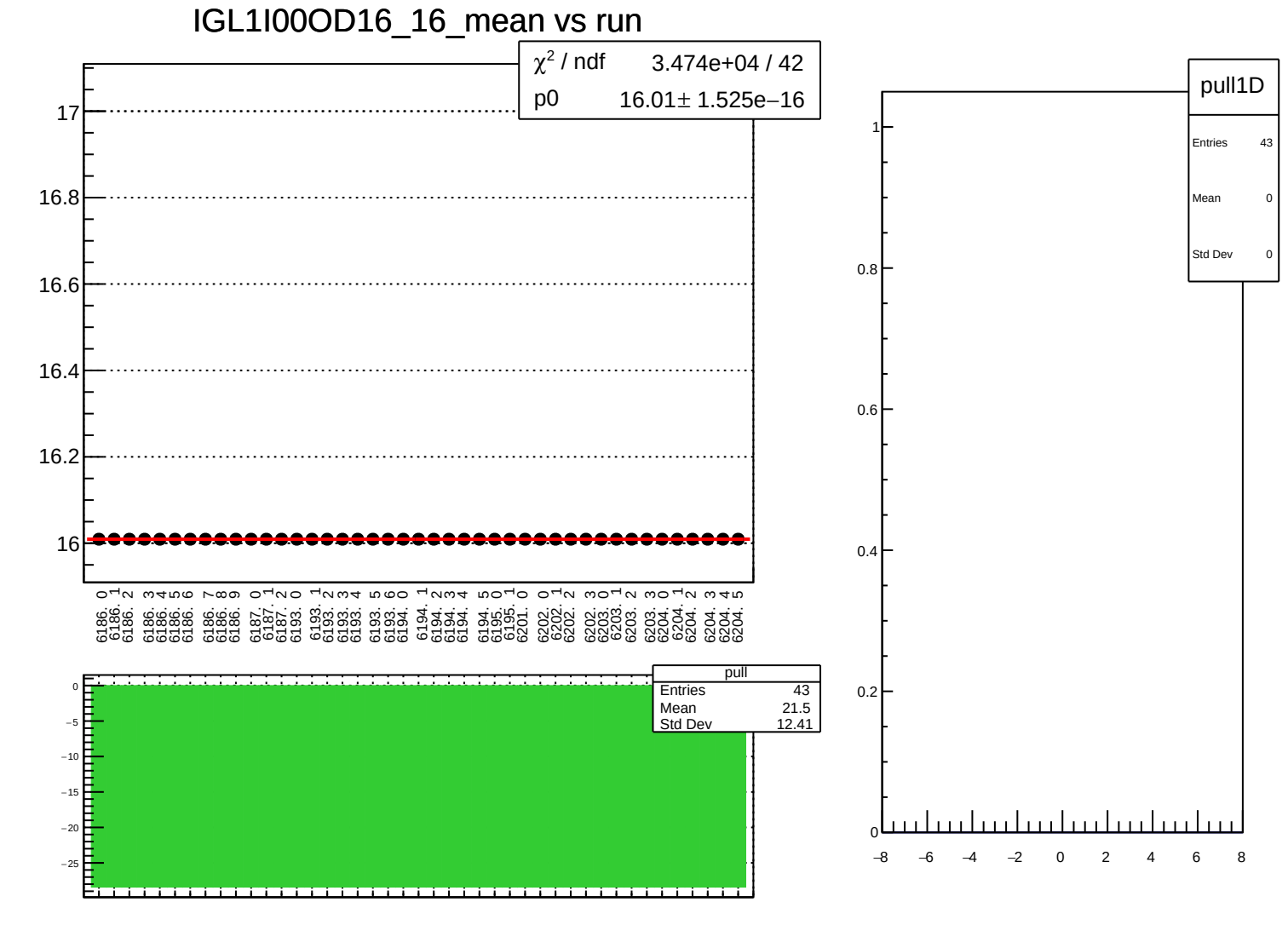

HWienAngle_mean vs run
χ² / ndf 0 / 42
p0 −29.64 ± 1.525e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 43
Mean 0
Std Dev 0
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

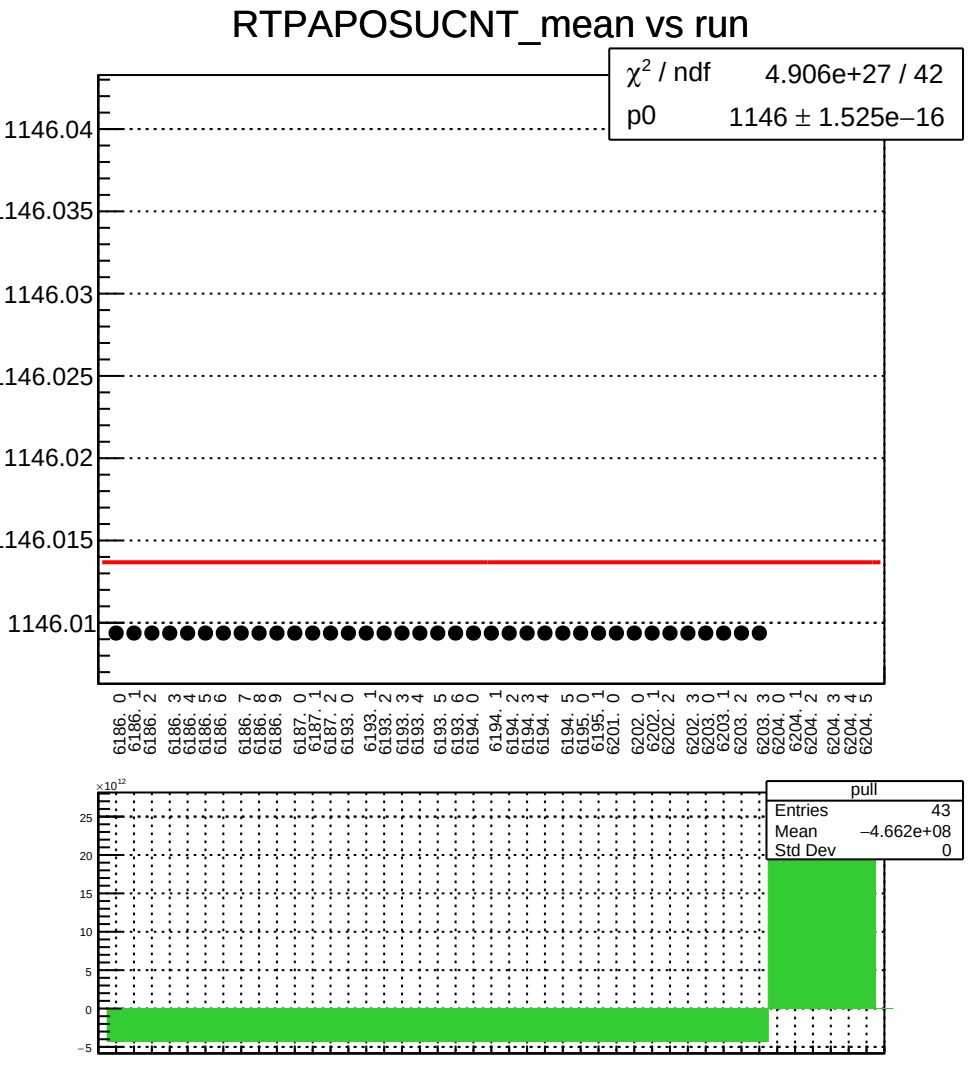

psub_pl_pos_mean vs run
χ² / ndf 1.423e+08 / 42
p0 1468 ± 1.525e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 21.5
Std Dev 12.41
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

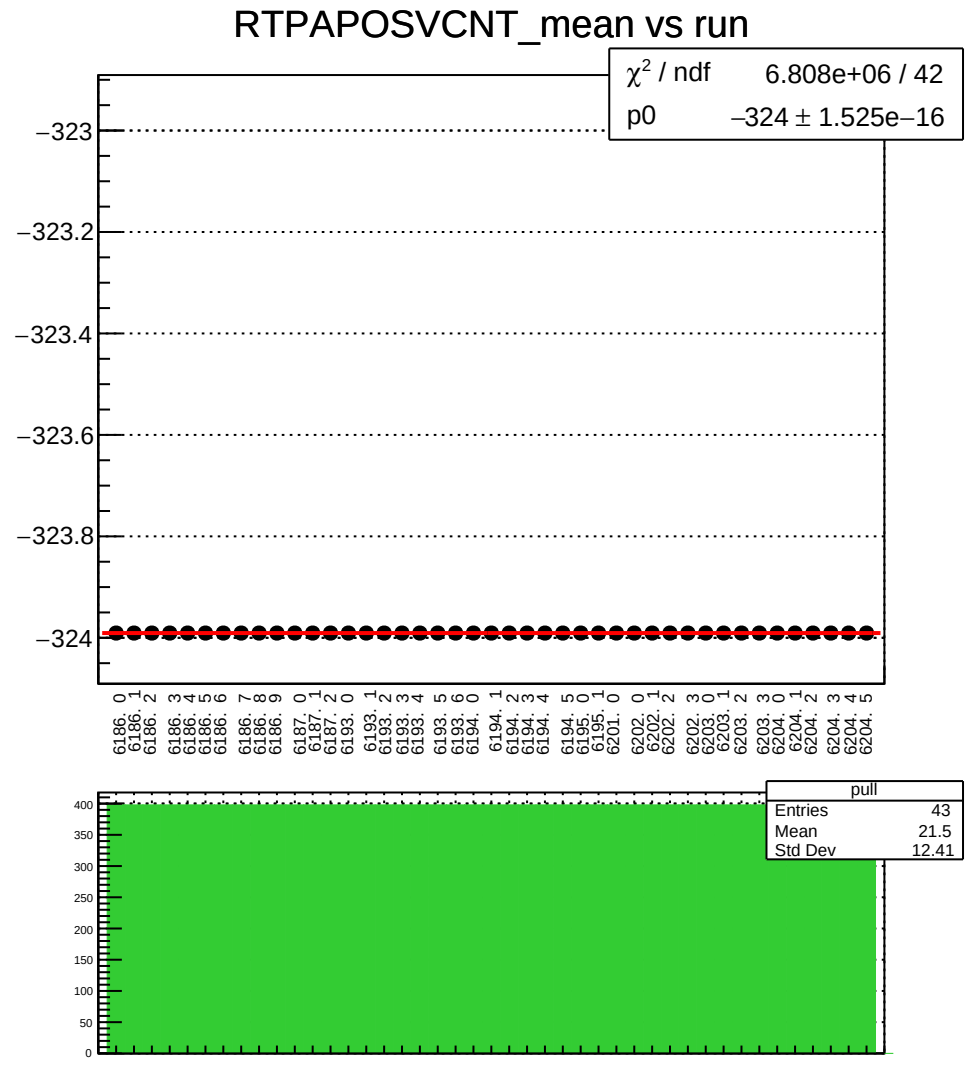

Phi_FG_mean vs run
χ² / ndf 7.815e+04 / 42
p0 89.96 ± 1.525e−16
91
90.8
90.6
90.4
90.2
90
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 21.5
Std Dev 12.41
40
35
30
25
20
15
10
5
0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

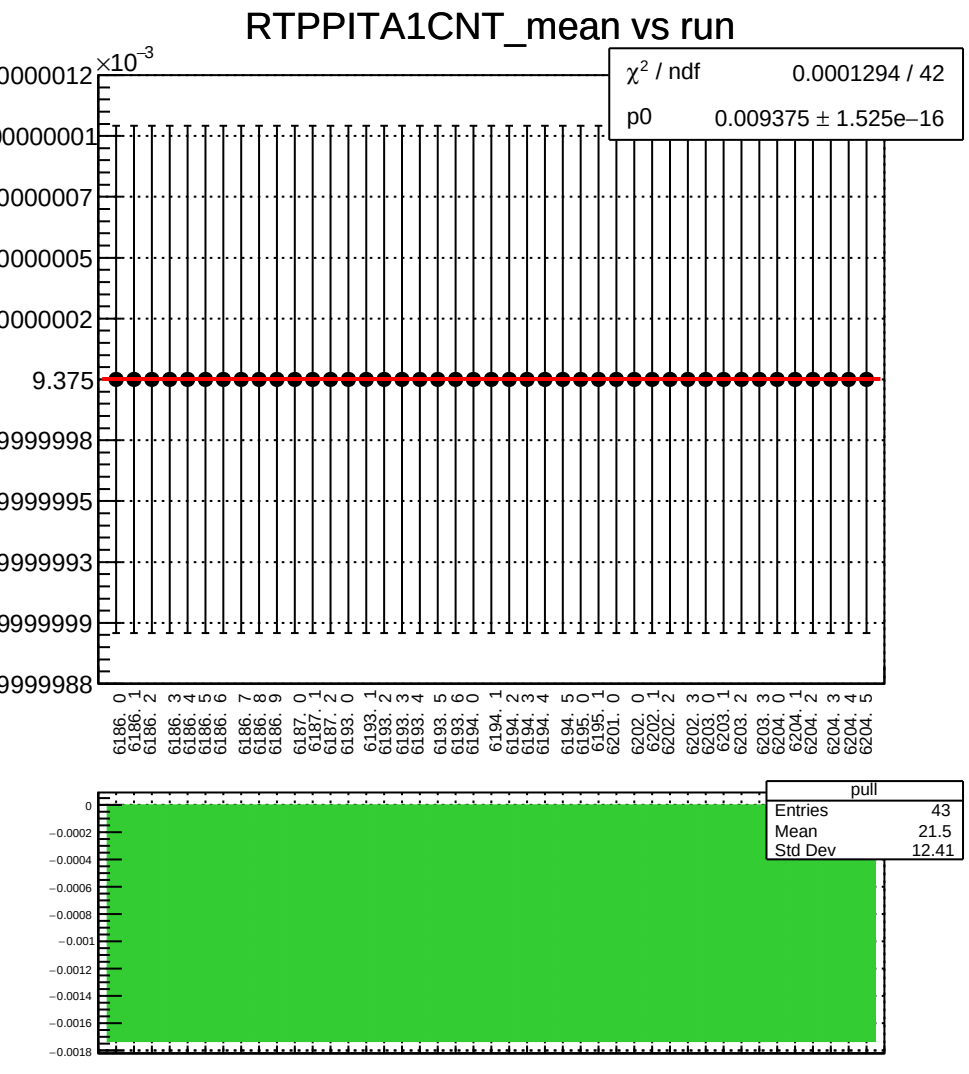

IGL1I00DI24_24M_mean vs run
χ² / ndf 2.385e+24 / 42
p0 17.01± 1.525e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
×10⁹
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
pull
Entries 43
Mean −1.335e+09
Std Dev 0

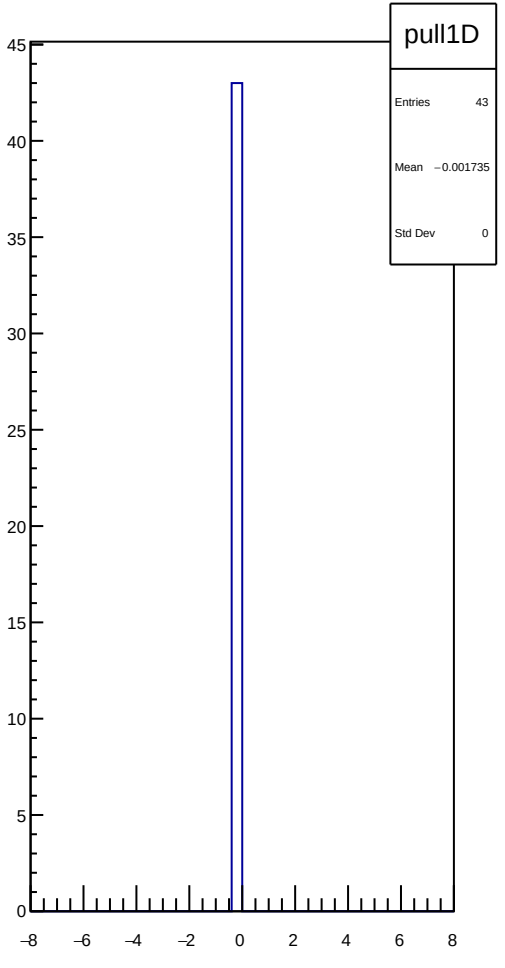

pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

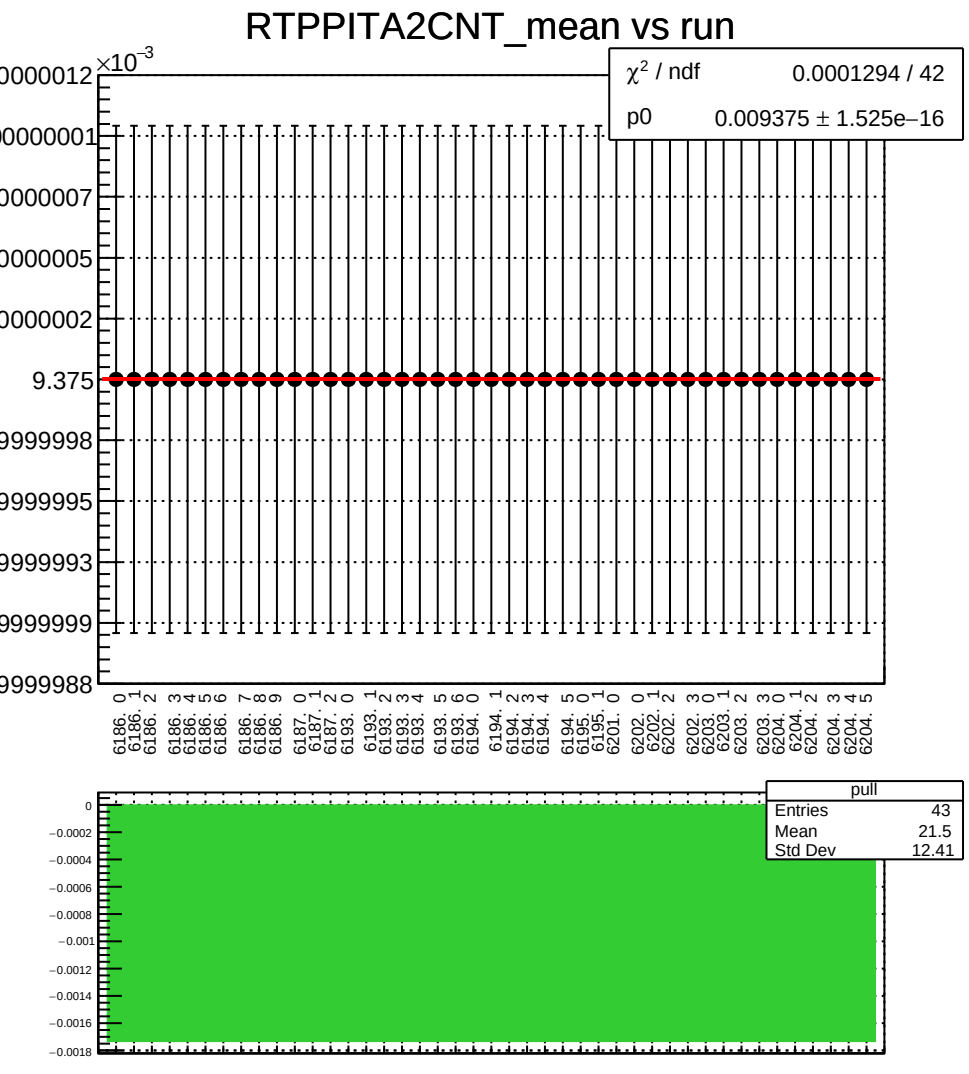

IGL1I00OD16_16_mean vs run
χ² / ndf 3.474e+04 / 42
p0 16.01± 1.525e−16
17
16.8
16.6
16.4
16.2
16
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 21.5
Std Dev 12.41
0
−5
−10
−15
−20
−25
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

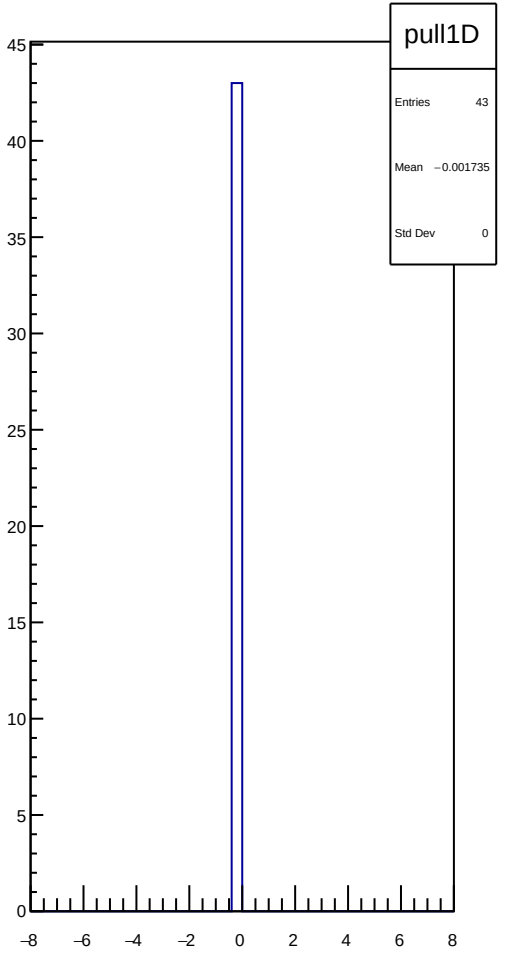

RTPAPOSUCNT_mean vs run
χ² / ndf 4.906e+27 / 42
p0 1146 ± 1.525e−16
1146.04
1146.035
1146.03
1146.025
1146.02
1146.015
1146.01
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
×10¹²
25
20
15
10
5
0
−5
pull
Entries 43
Mean −4.662e+08
Std Dev 0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 6.808e+06 / 42
p0 −324 ± 1.525e−16
−323
−323.2
−323.4
−323.6
−323.8
−324
6186. 0
6186. 1
6186. 2
6186. 3
6186. 4
6186. 5
6186. 6
6186. 7
6186. 8
6186. 9
6187. 0
6187. 1
6187. 2
6193. 0
6193. 1
6193. 2
6193. 3
6193. 4
6193. 5
6193. 6
6194. 0
6194. 1
6194. 2
6194. 3
6194. 4
6194. 5
6195. 0
6195. 1
6201. 0
6202. 0
6202. 1
6202. 2
6202. 3
6203. 0
6203. 1
6203. 2
6203. 3
6204. 0
6204. 1
6204. 2
6204. 3
6204. 4
6204. 5
pull
Entries 43
Mean 21.5
Std Dev 12.41
400
350
300
250
200
150
100
50
0
pull1D
Entries 43
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
×10⁻³
pull
Entries 43
Mean 21.5
Std Dev 12.41


pull1D
Entries 43
Mean −0.001735
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.0001294 / 42
p0 0.009375 ± 1.525e−16
×10⁻³
9.375
pull
Entries 43
Mean 21.5
Std Dev 12.41


pull1D
Entries 43
Mean −0.001735
Std Dev 0