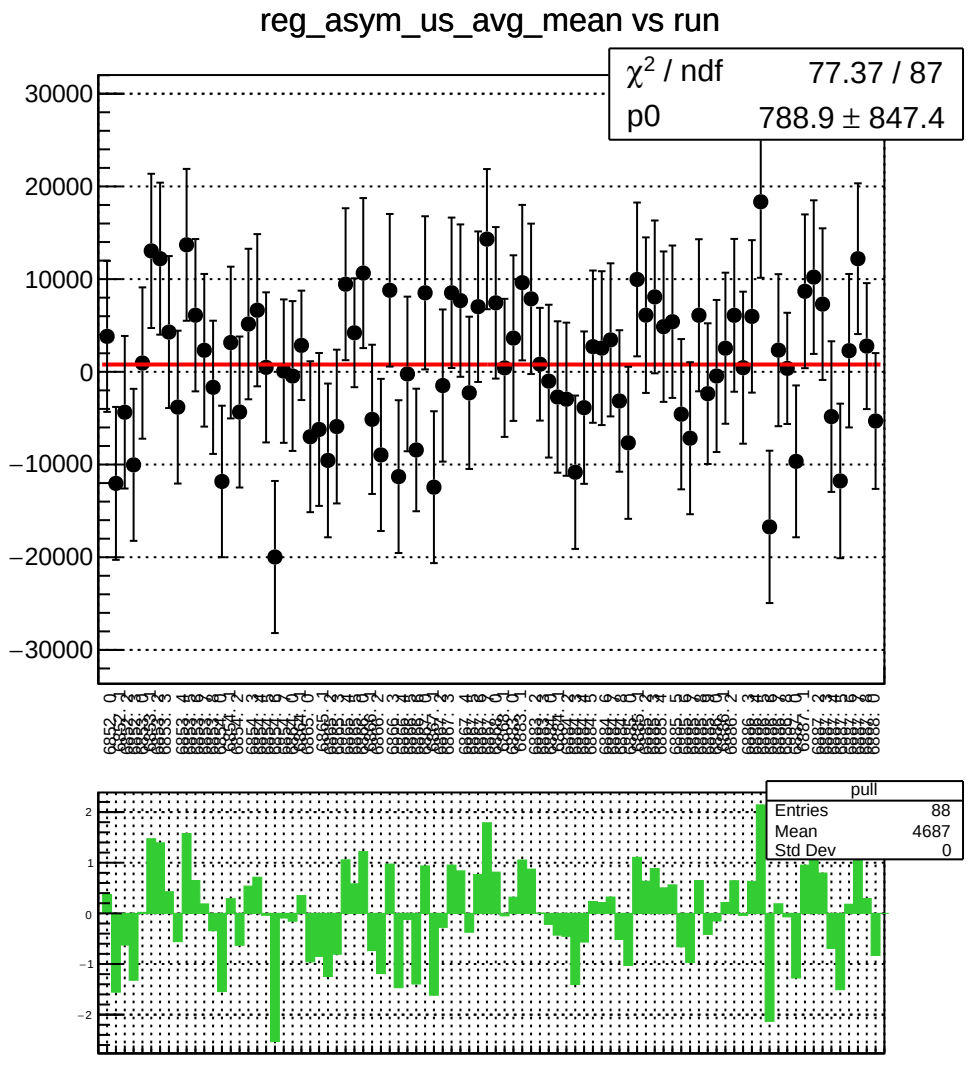
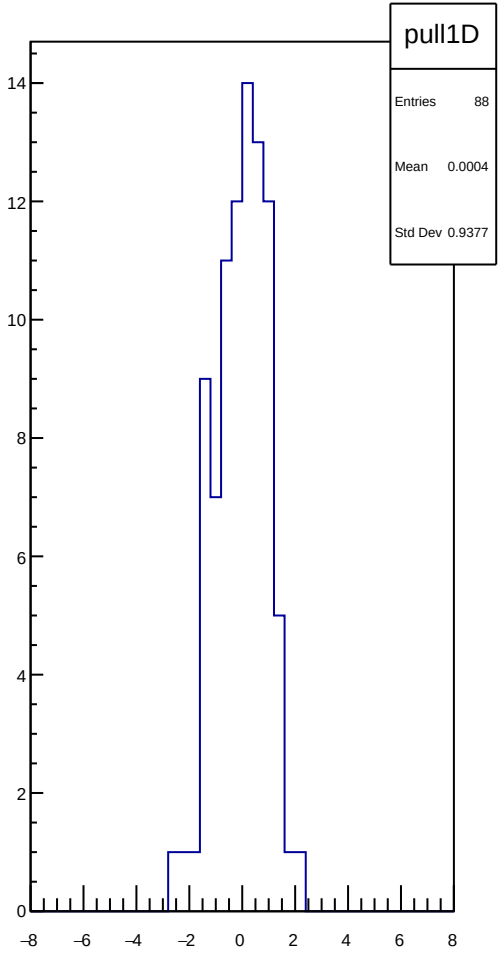
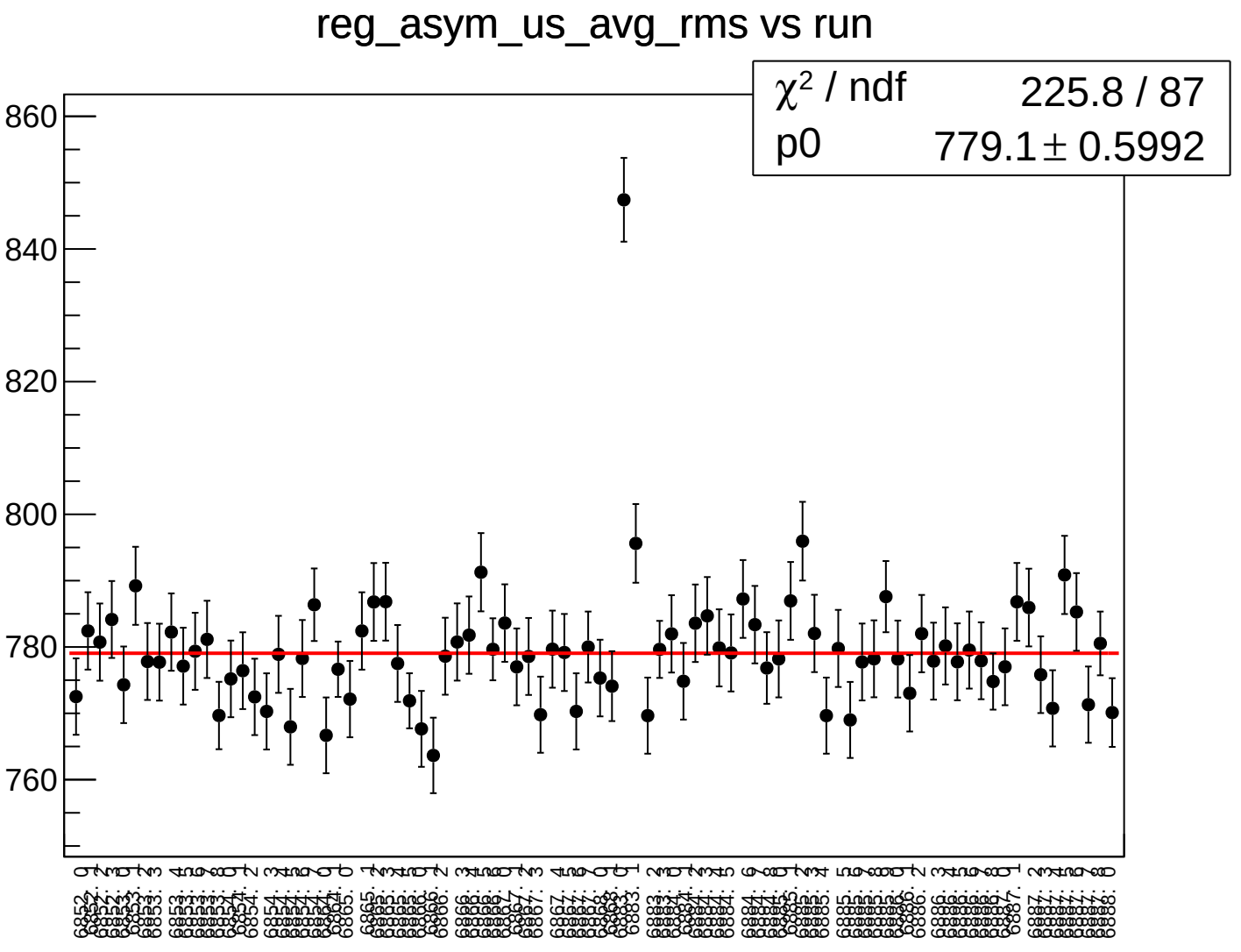
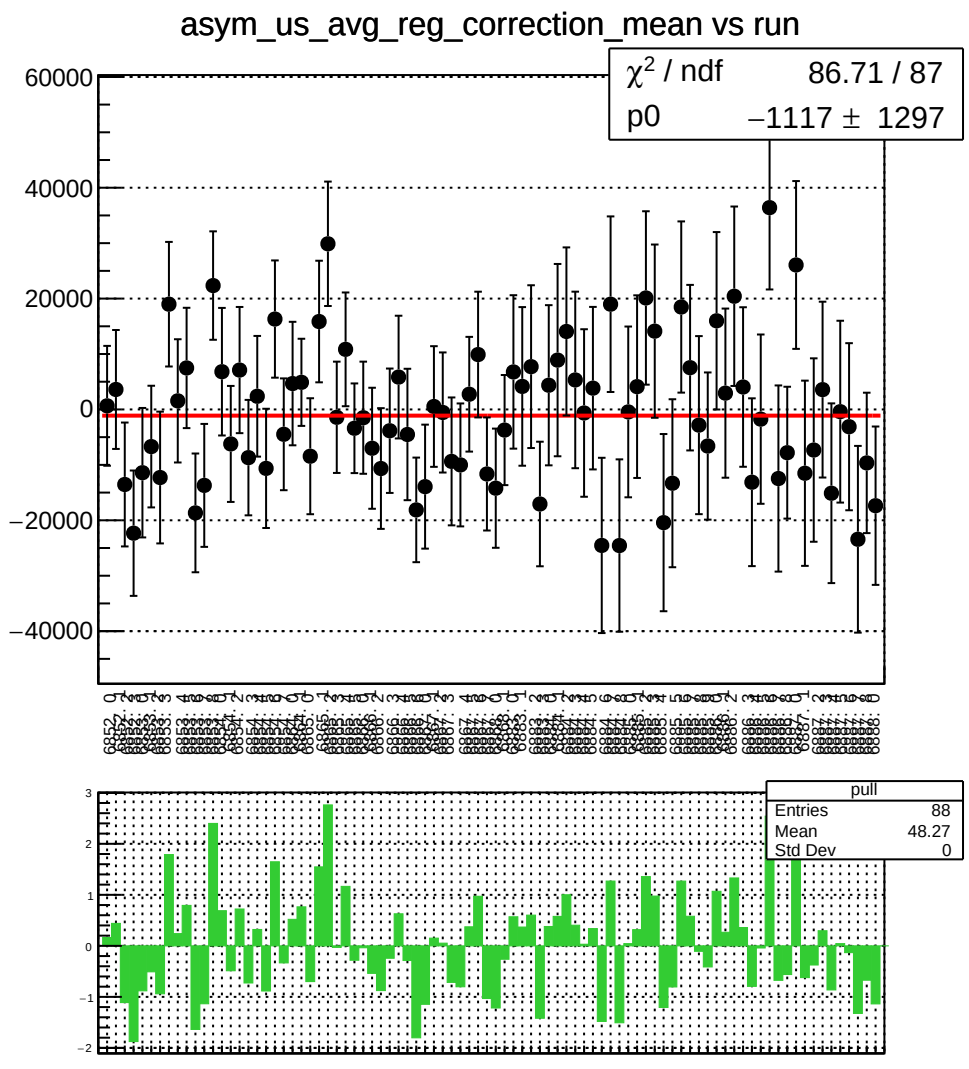
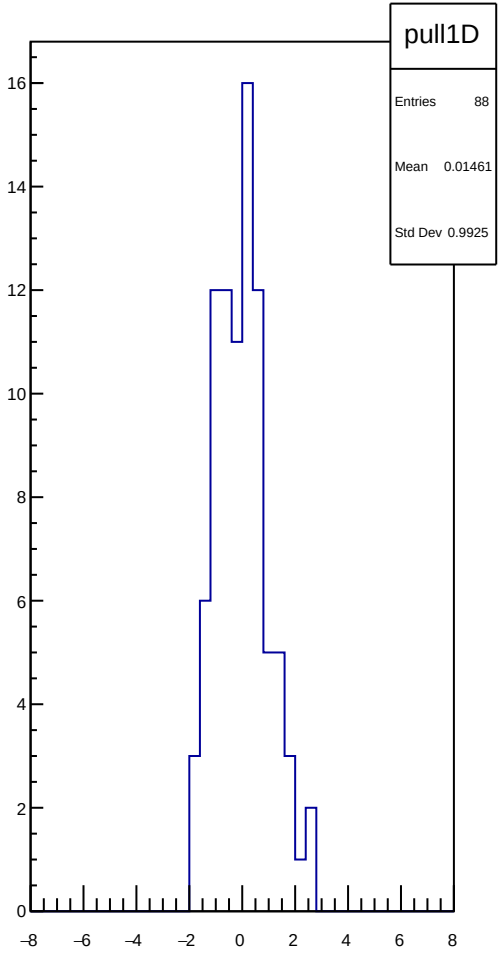
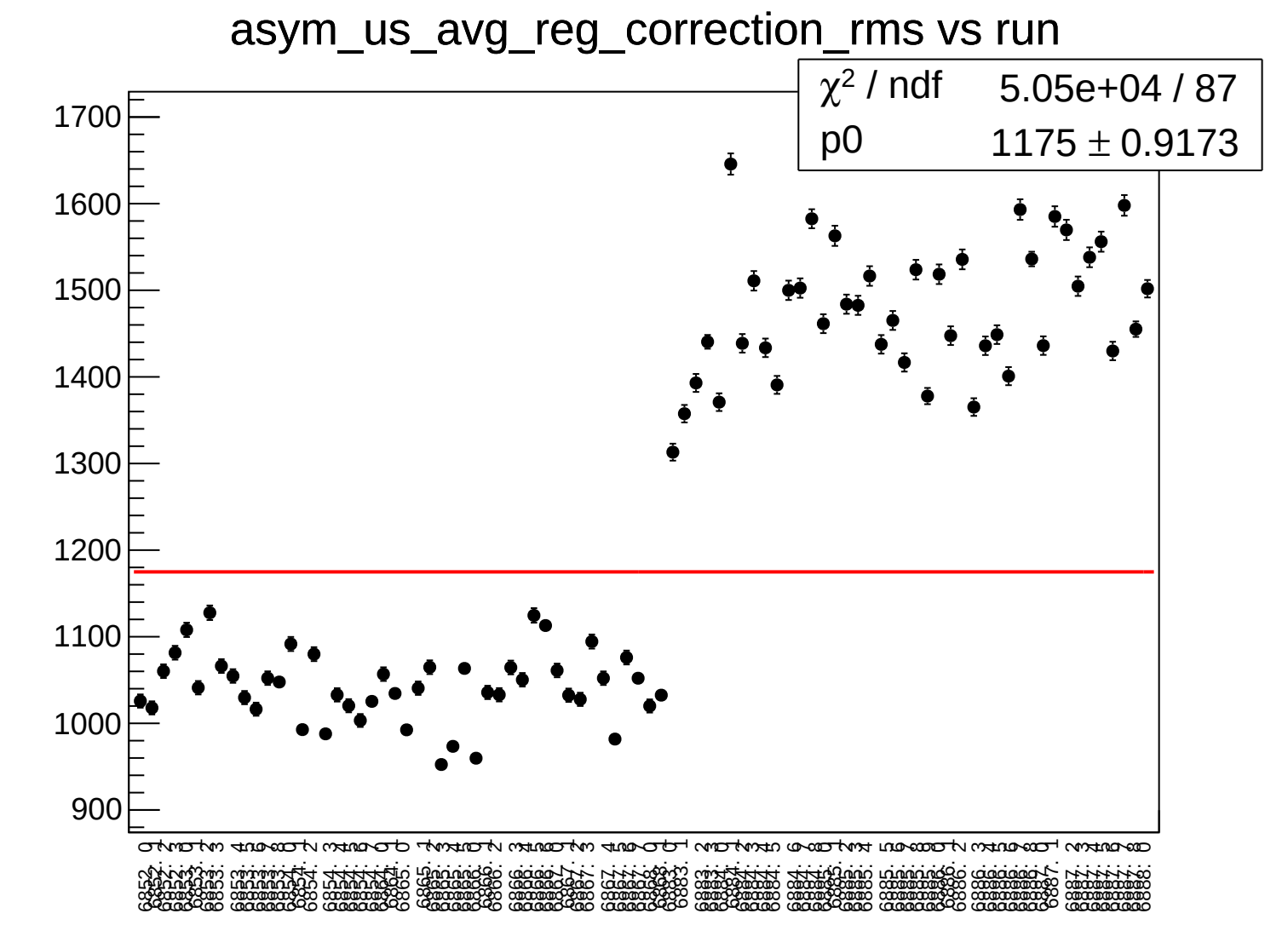

reg_asym_us_avg_mean vs run
χ² / ndf 77.37 / 87
p0 788.9 ± 847.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 4687
Std Dev 0
2
1
0
−1
−2

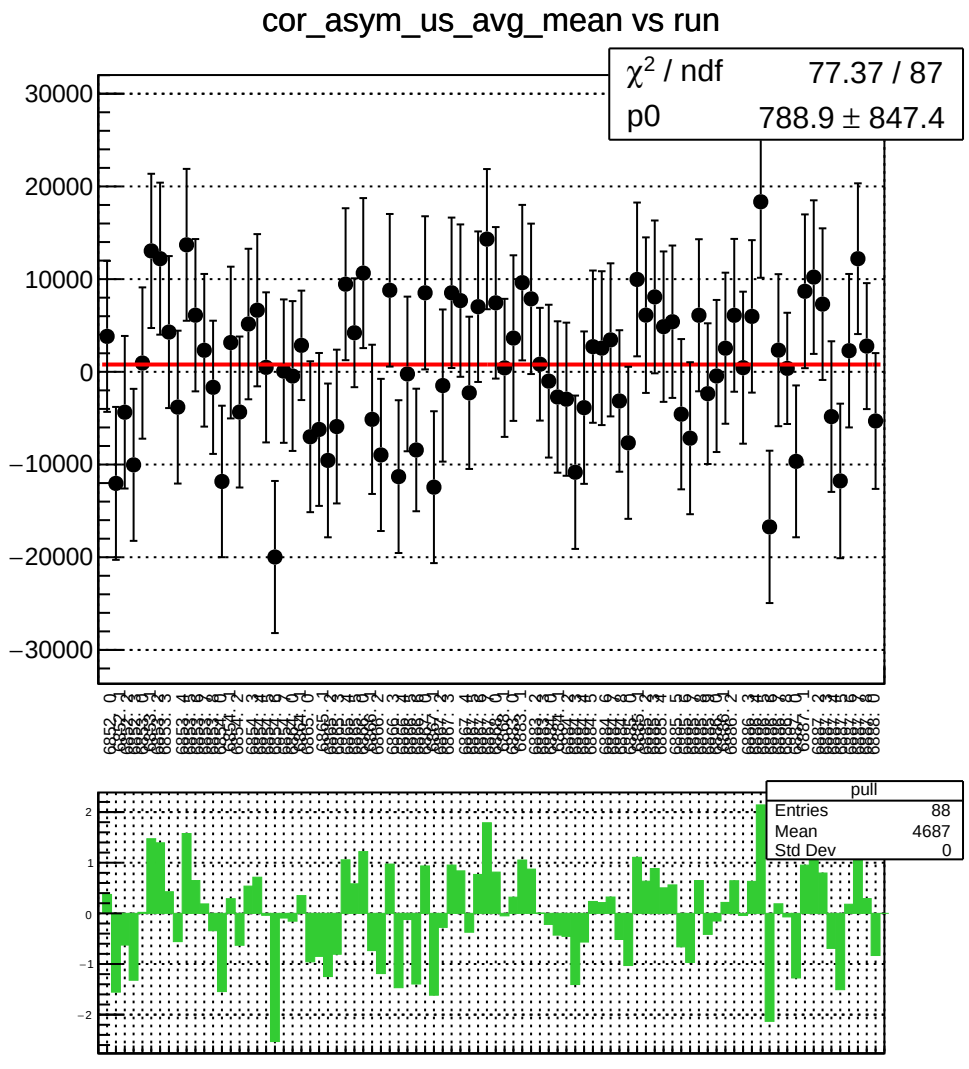

pull1D
Entries 88
Mean 0.0004
Std Dev 0.9377
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

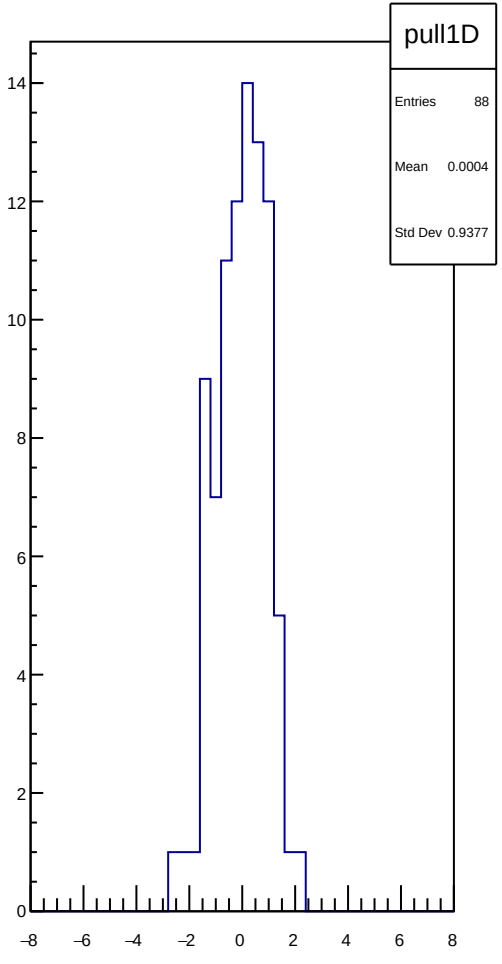

reg_asym_us_avg_rms vs run
χ² / ndf 225.8 / 87
p0 779.1 ± 0.5992
860
840
820
800
780
760


asym_us_avg_reg_correction_mean vs run
χ² / ndf 86.71 / 87
p0 −1117 ± 1297
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 48.27
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.01461
Std Dev 0.9925
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_reg_correction_rms vs run
χ² / ndf 5.05e+04 / 87
p0 1175 ± 0.9173
1700
1600
1500
1400
1300
1200
1100
1000
900


cor_asym_us_avg_mean vs run
χ² / ndf 77.37 / 87
p0 788.9 ± 847.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 4687
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.0004
Std Dev 0.9377
14
12
10
8
6
4
2
0
−8
−6
−4
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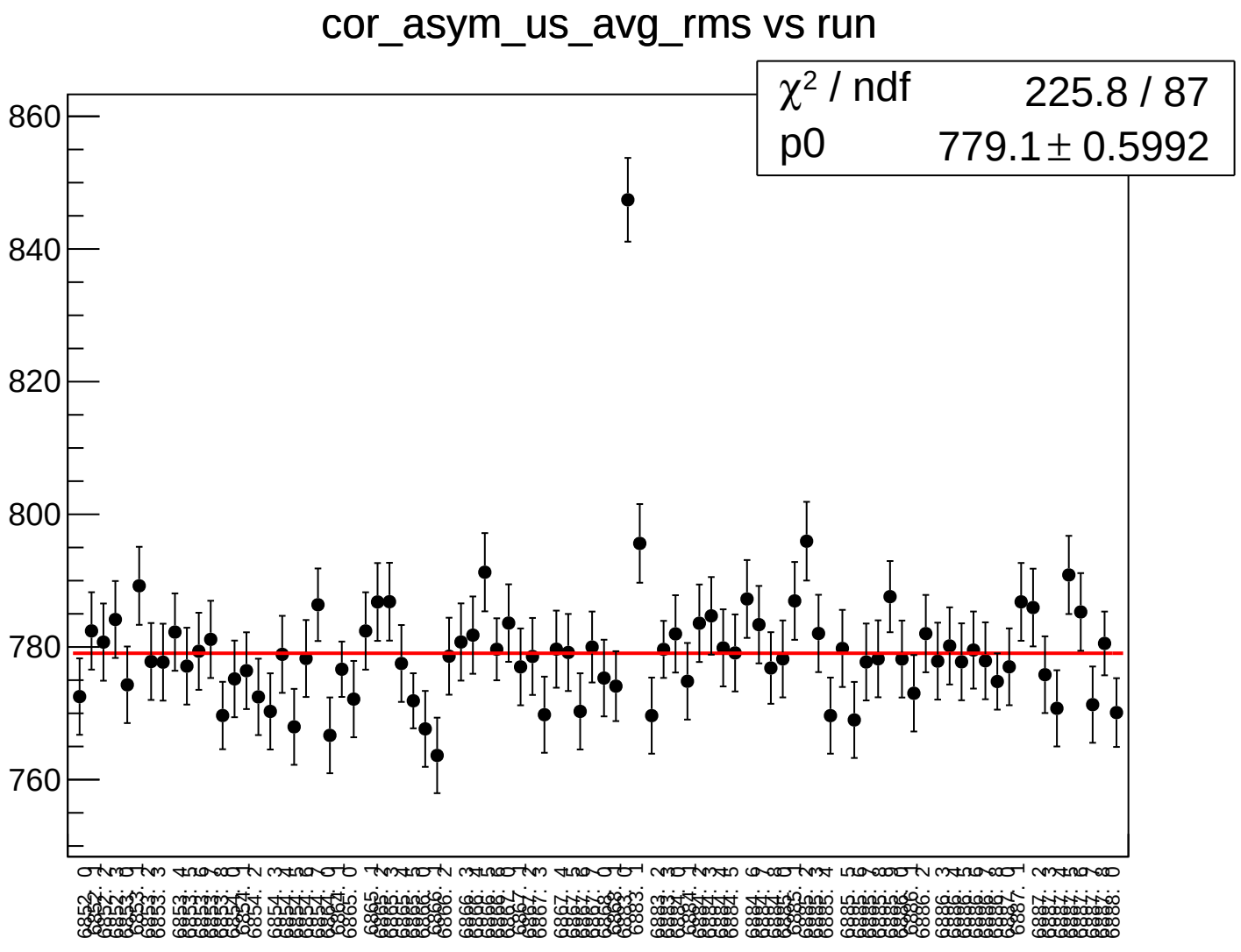
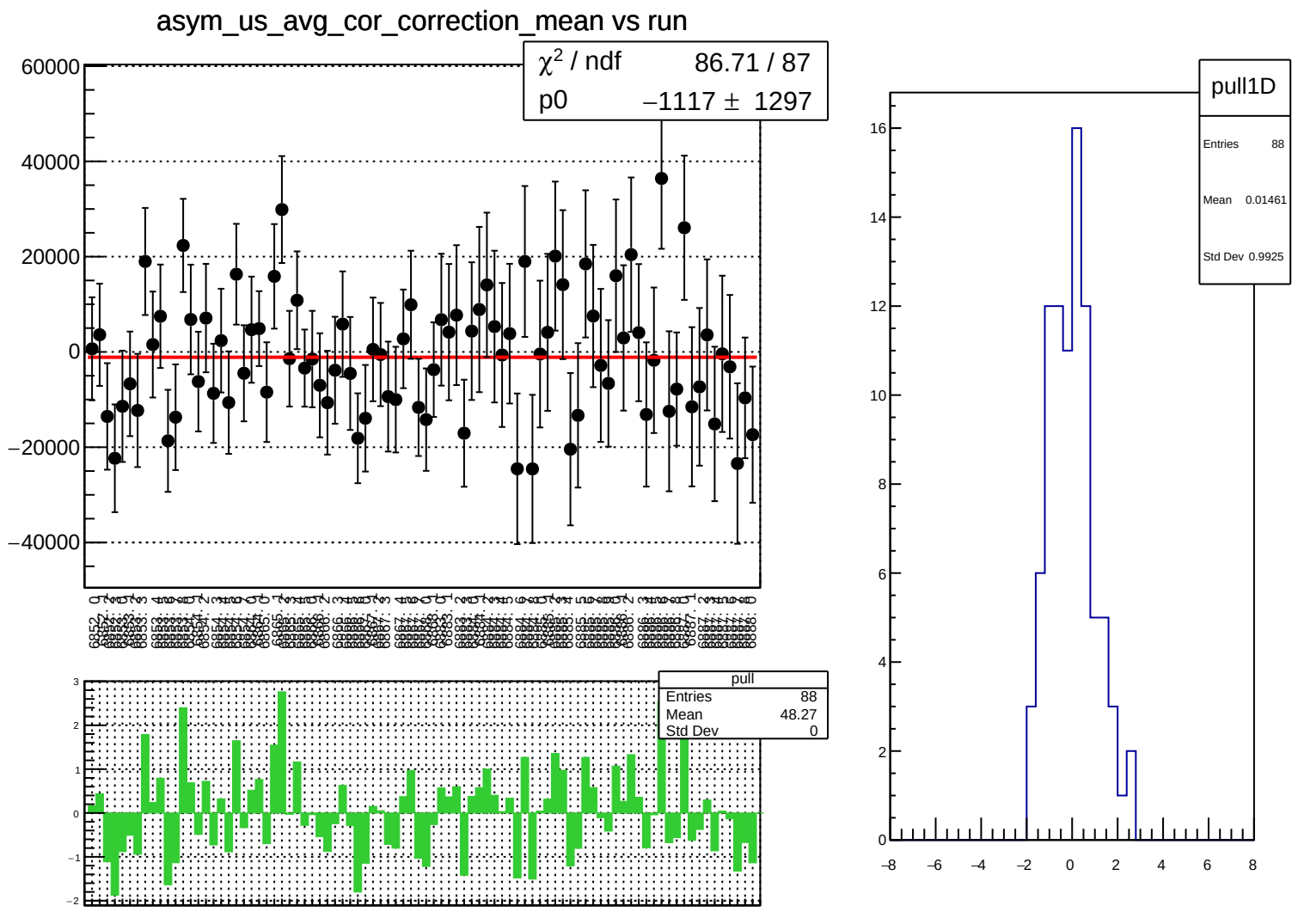
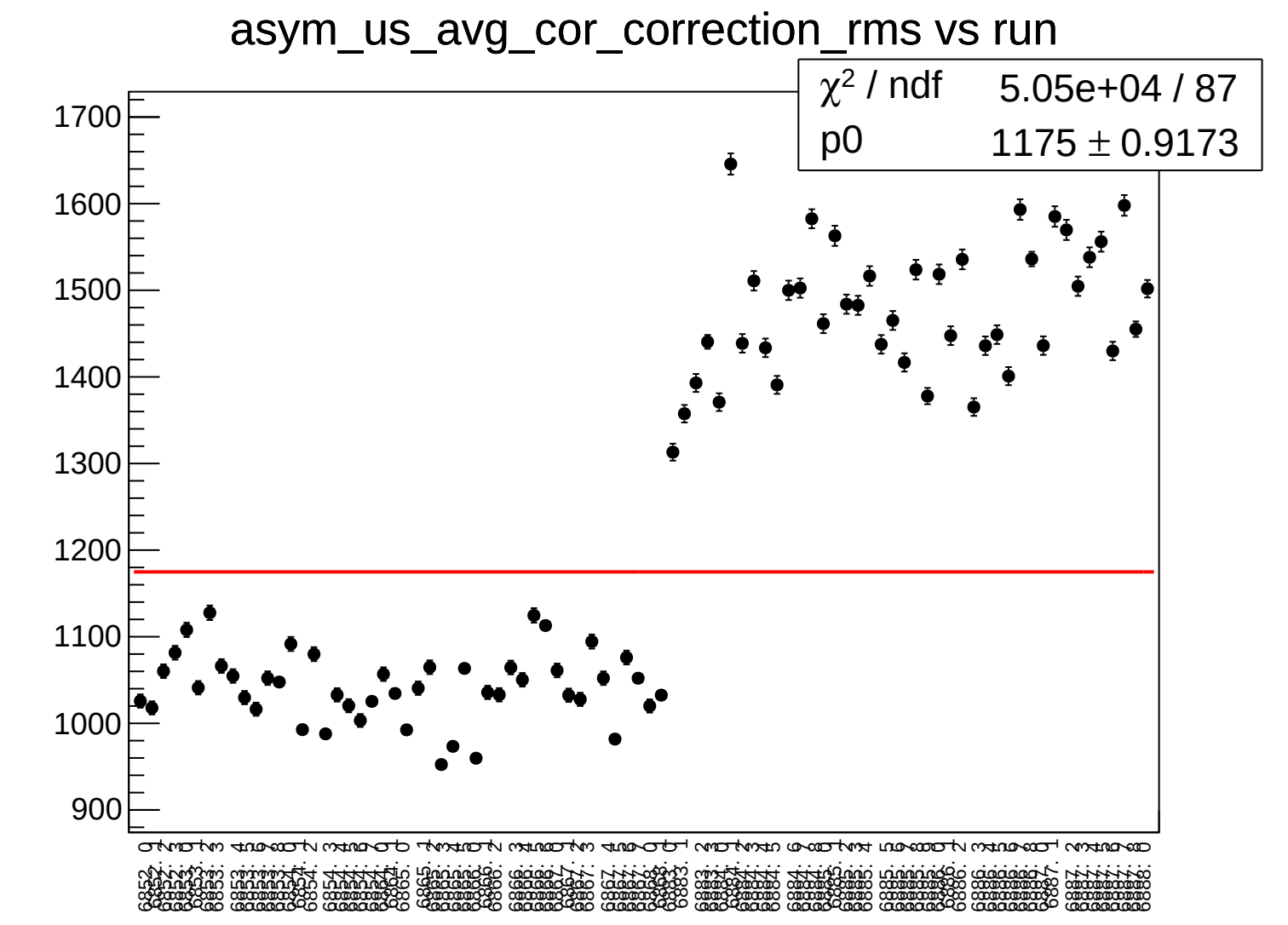
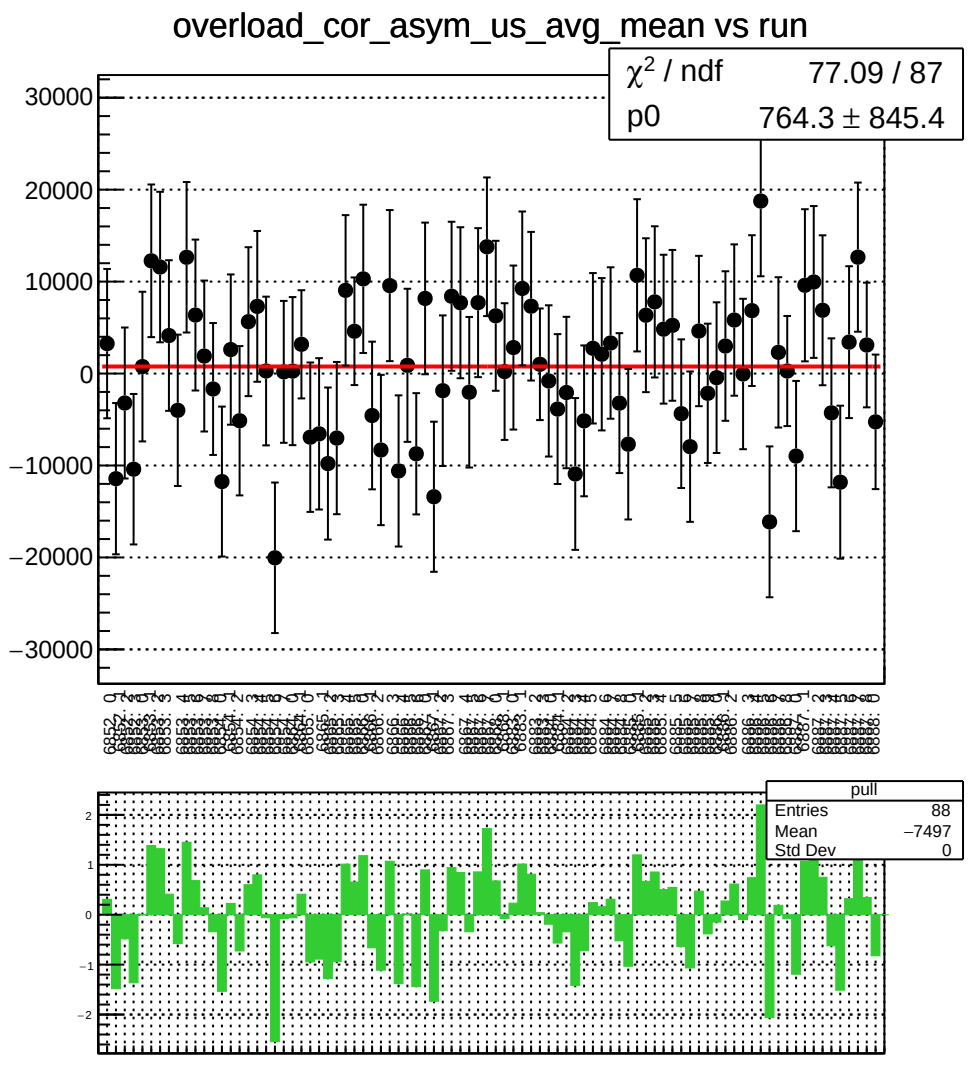
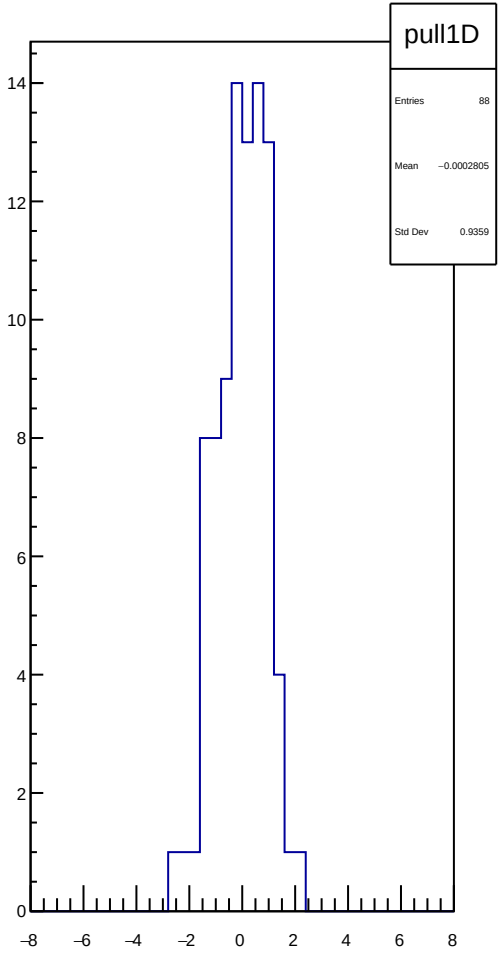
0
2
4
6
8


cor_asym_us_avg_rms vs run
χ² / ndf 225.8 / 87
p0 779.1 ± 0.5992
860
840
820
800
780
760


asym_us_avg_cor_correction_mean vs run
χ² / ndf 86.71 / 87
p0 −1117 ± 1297
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 48.27
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01461
Std Dev 0.9925
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_cor_correction_rms vs run
χ² / ndf 5.05e+04 / 87
p0 1175 ± 0.9173
1700
1600
1500
1400
1300
1200
1100
1000
900


overload_cor_asym_us_avg_mean vs run
χ² / ndf 77.09 / 87
p0 764.3 ± 845.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean −7497
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.0002805
Std Dev 0.9359
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10
8
6
4
2
0
−8
−6
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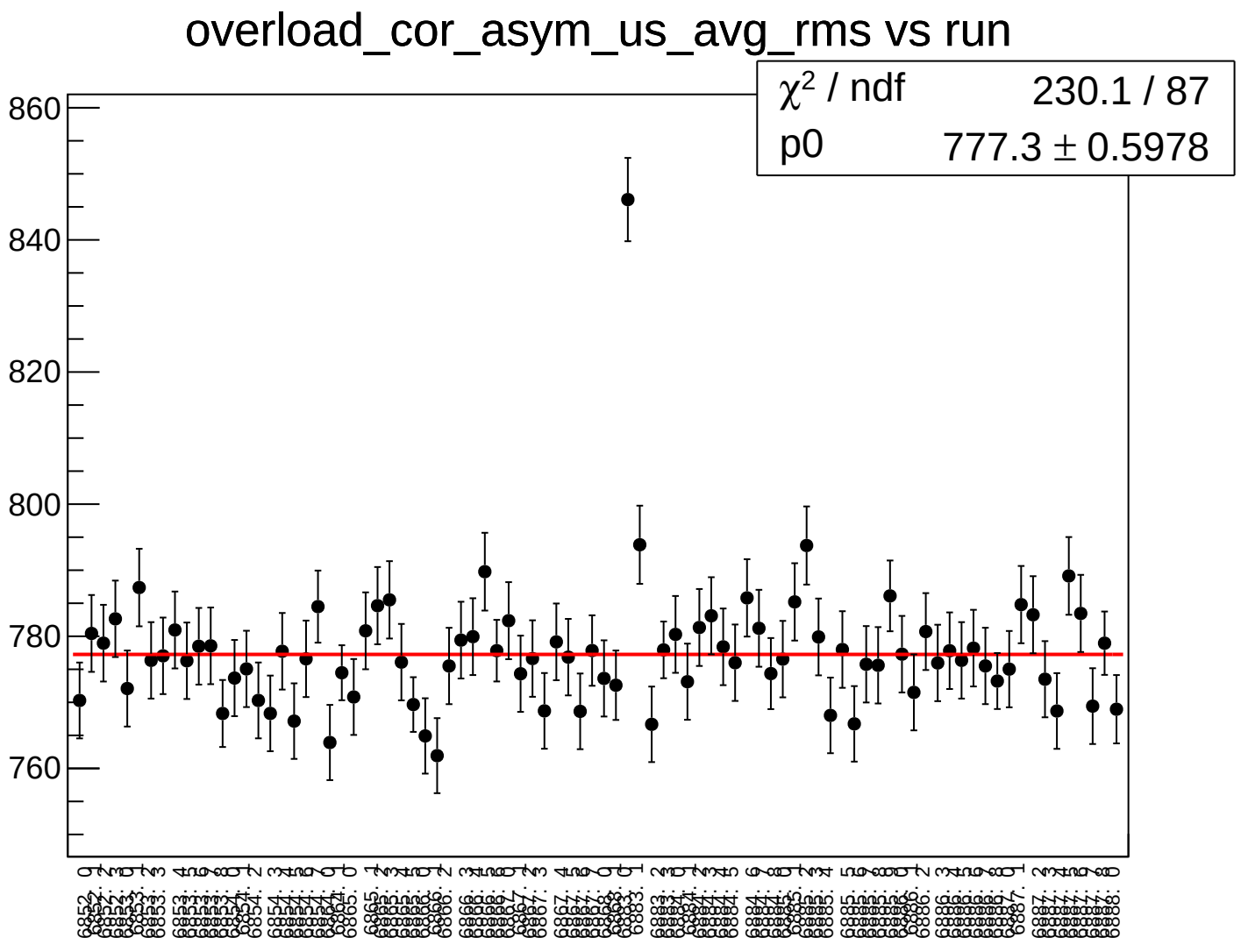
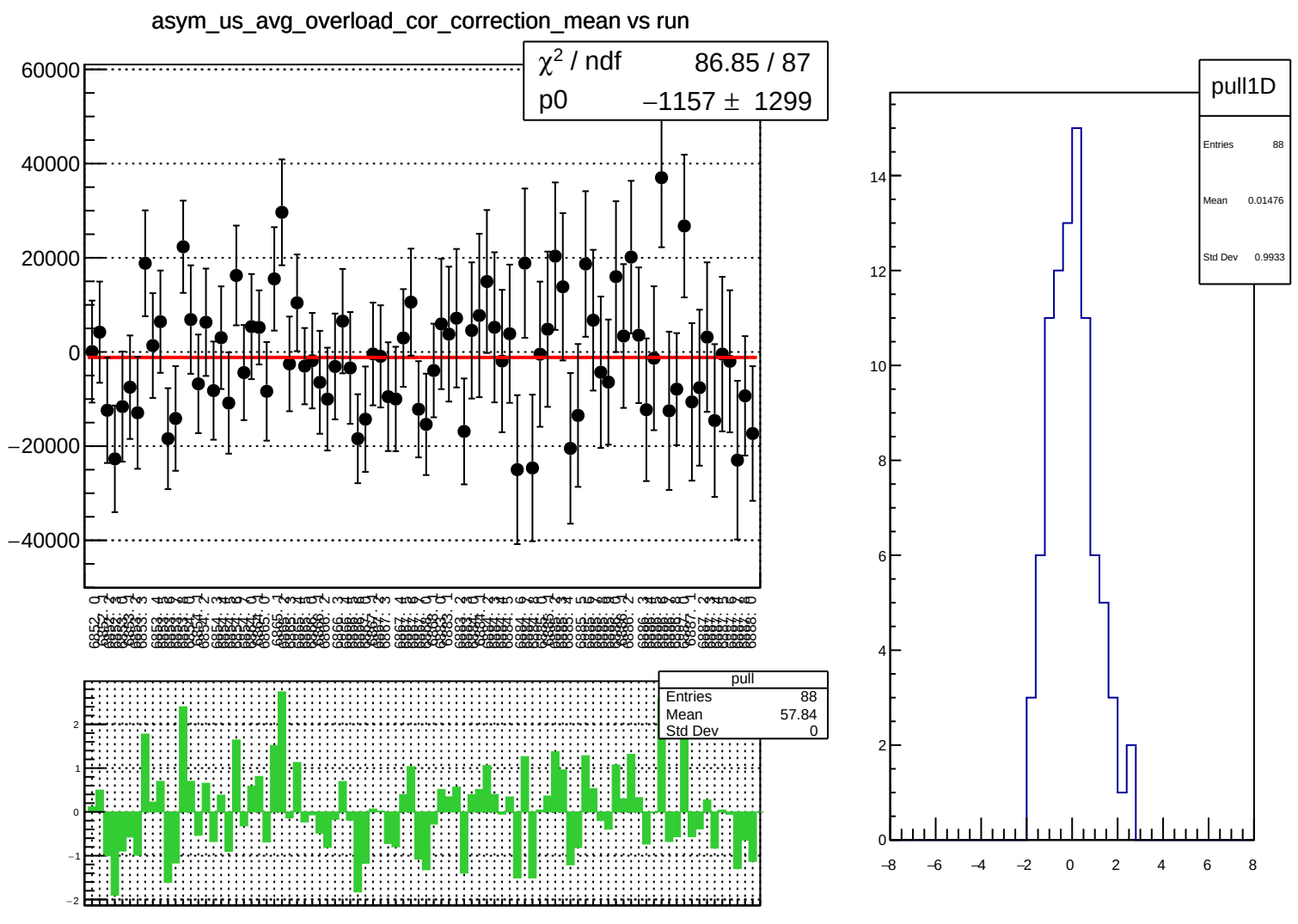
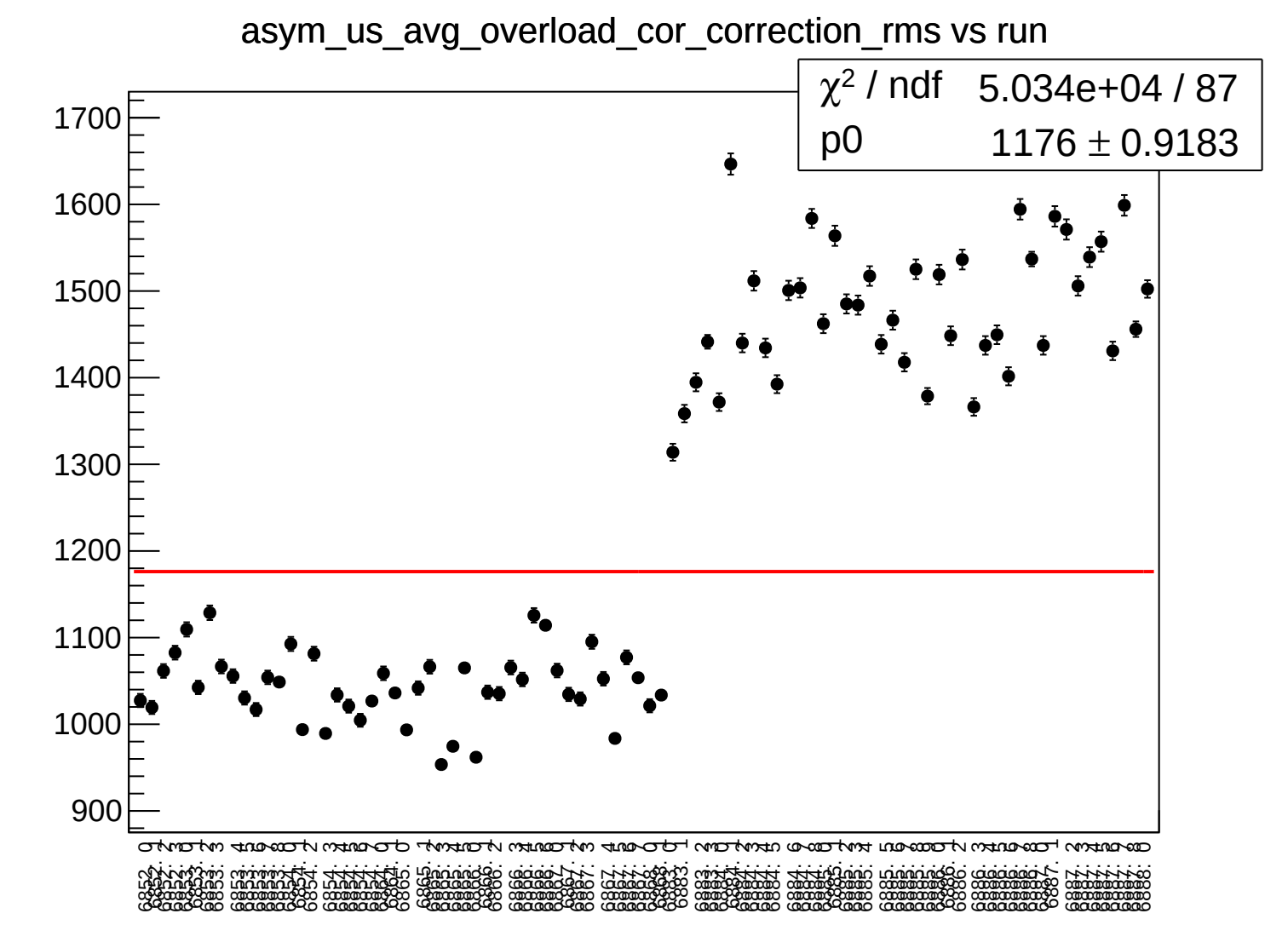
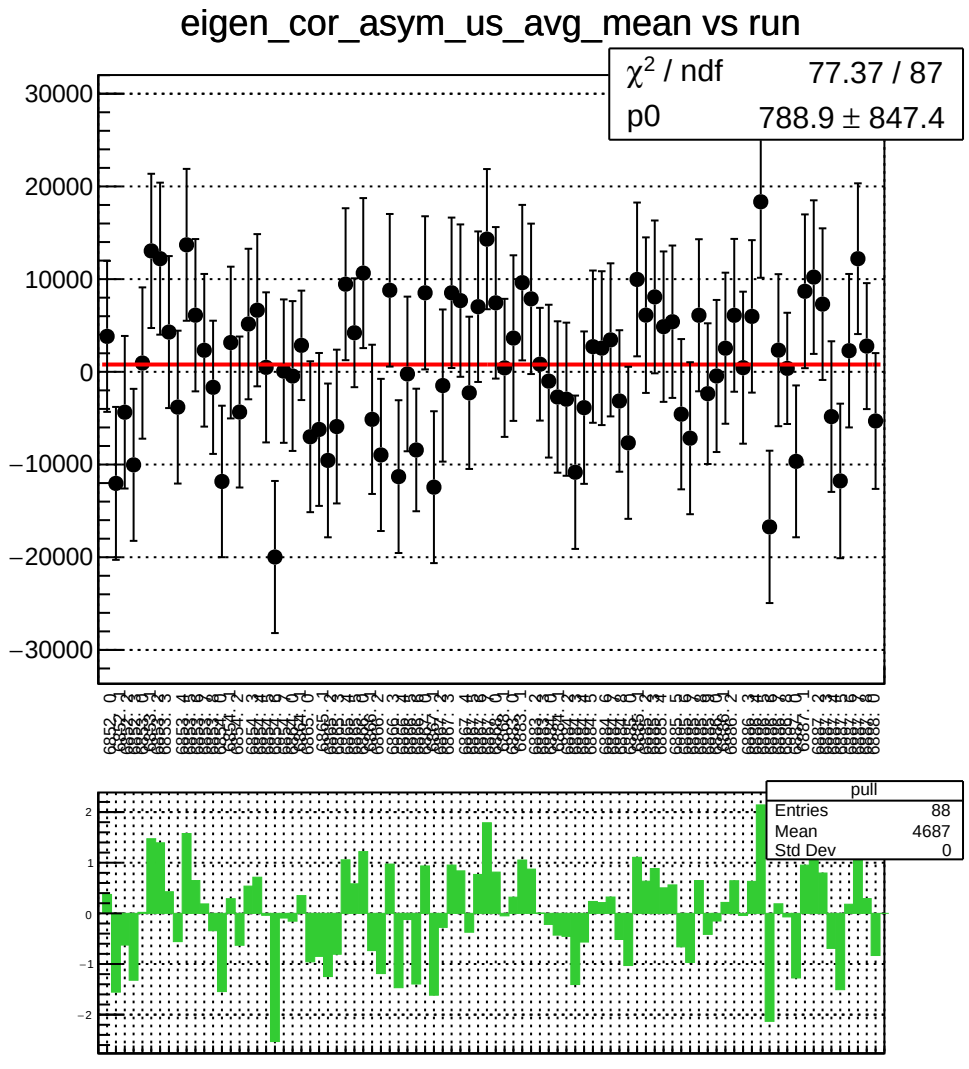
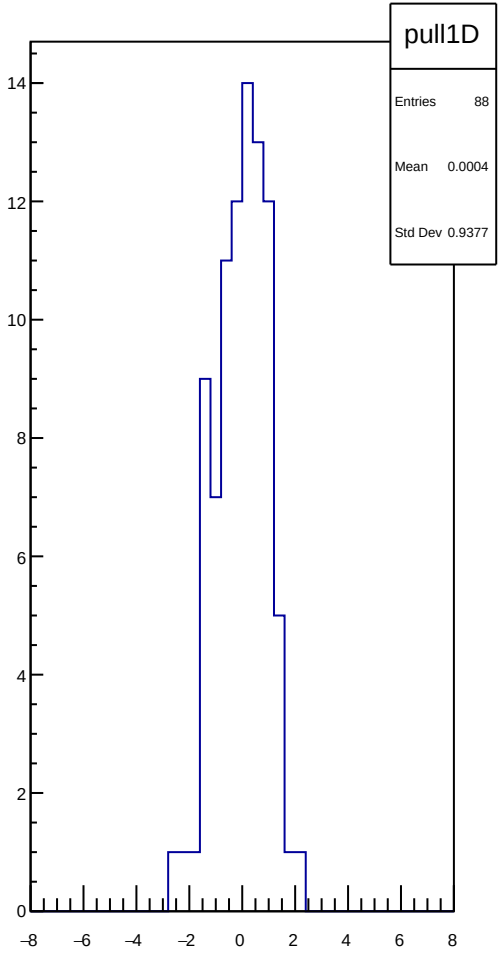
2
4
6
8


overload_cor_asym_us_avg_rms vs run
χ² / ndf 230.1 / 87
p0 777.3 ± 0.5978
860
840
820
800
780
760


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 86.85 / 87
p0 −1157 ± 1299
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 57.84
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01476
Std Dev 0.9933
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 5.034e+04 / 87
p0 1176 ± 0.9183
1700
1600
1500
1400
1300
1200
1100
1000
900


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 77.37 / 87
p0 788.9 ± 847.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 4687
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.0004
Std Dev 0.9377
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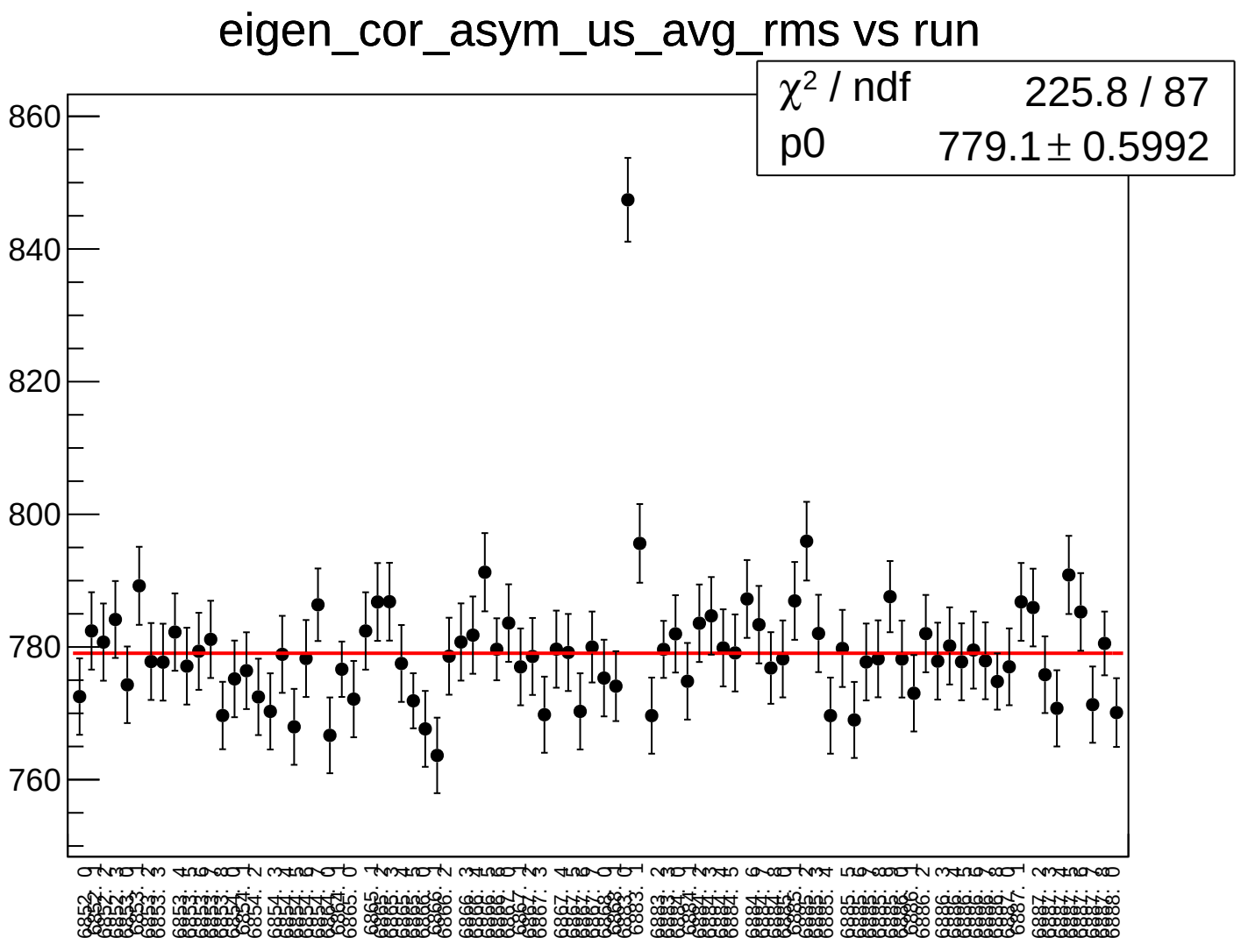
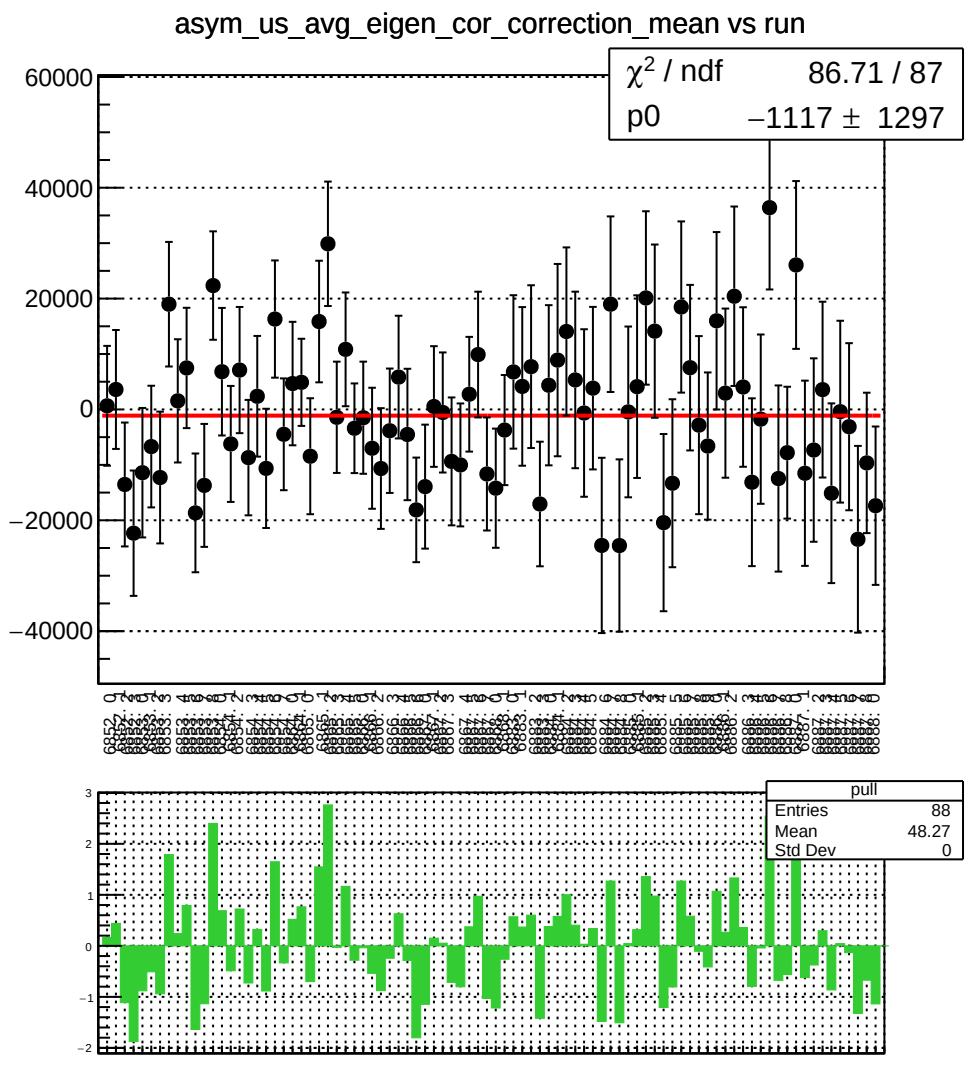
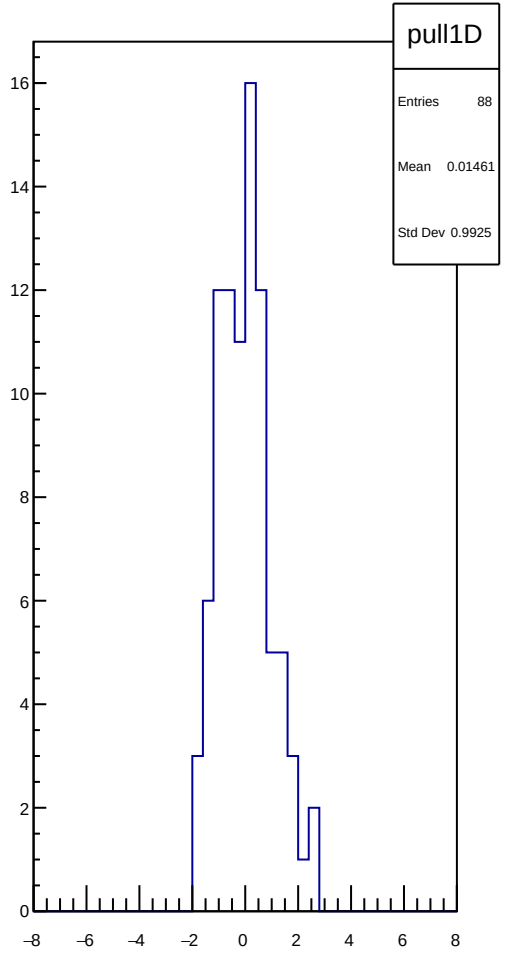
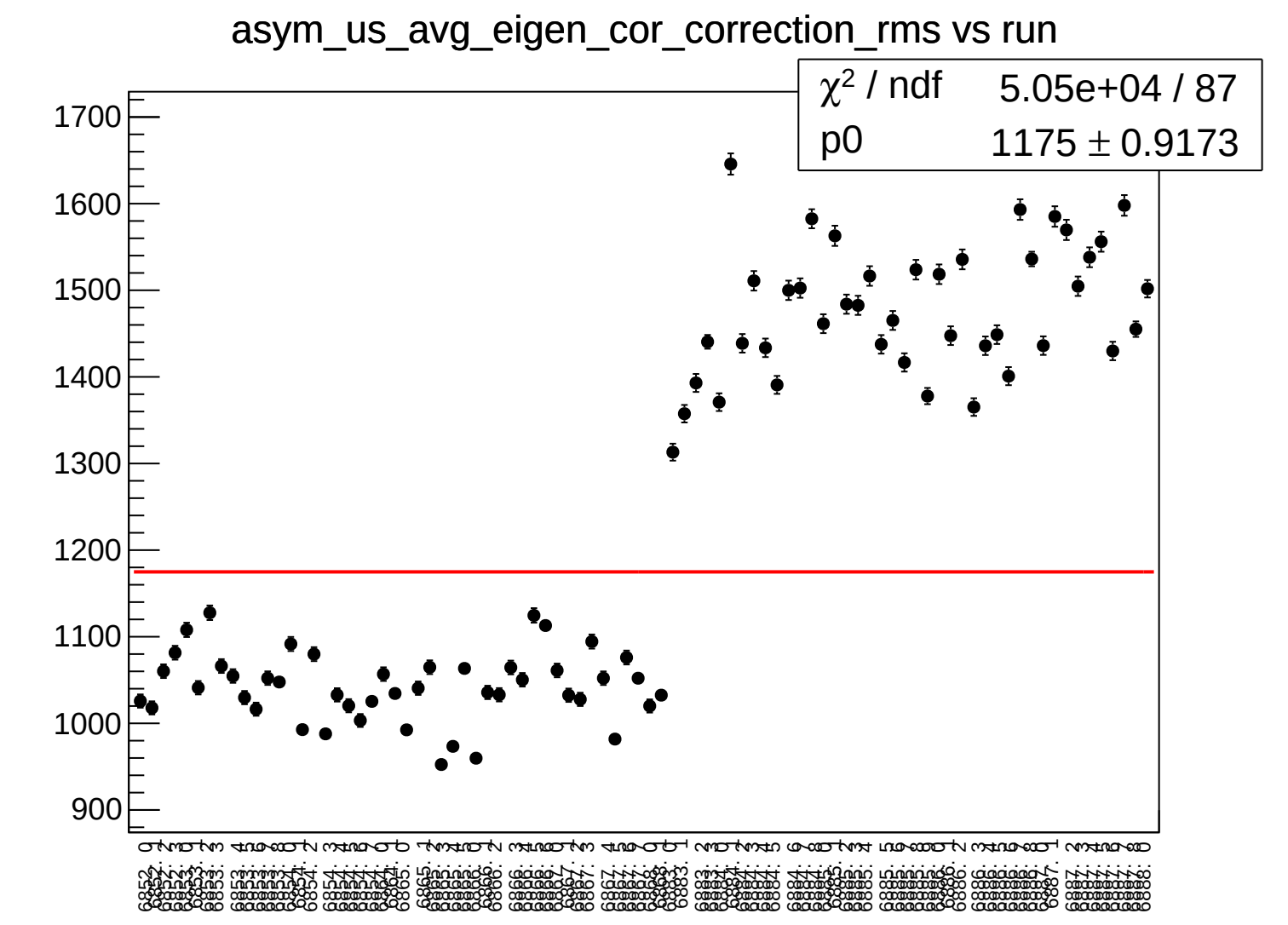
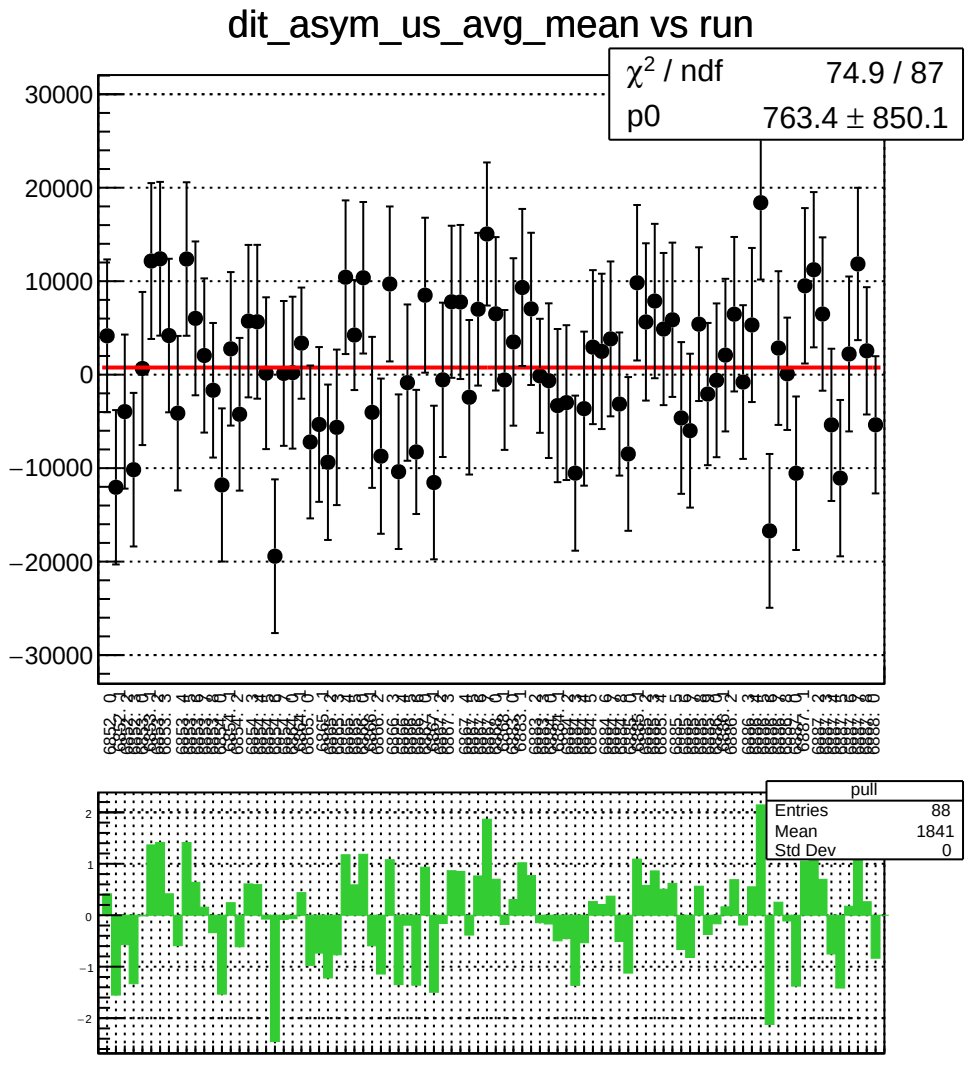
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

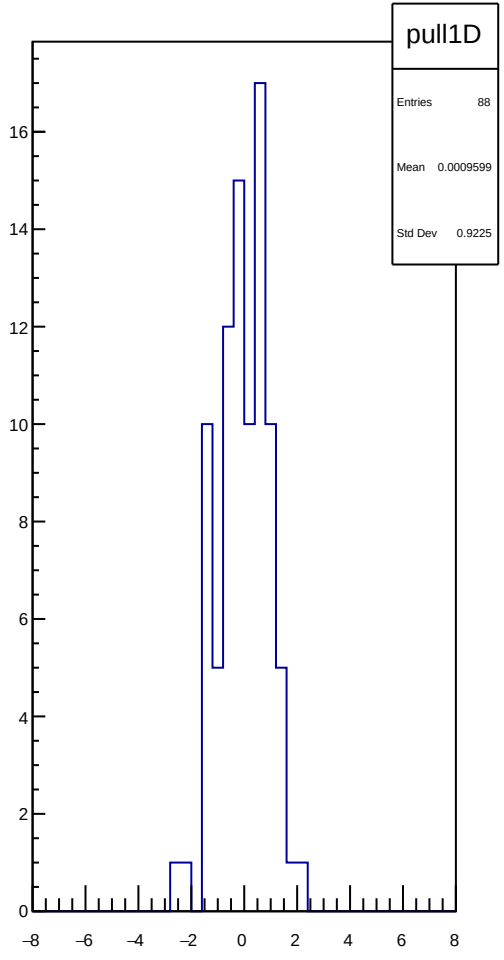

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 225.8 / 87
p0 779.1 ± 0.5992
860
840
820
800
780
760


asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.71 / 87
p0 −1117 ± 1297
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 48.27
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.01461
Std Dev 0.9925
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.05e+04 / 87
p0 1175 ± 0.9173
1700
1600
1500
1400
1300
1200
1100
1000
900


dit_asym_us_avg_mean vs run
χ² / ndf 74.9 / 87
p0 763.4 ± 850.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 1841
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.0009599
Std Dev 0.9225
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14
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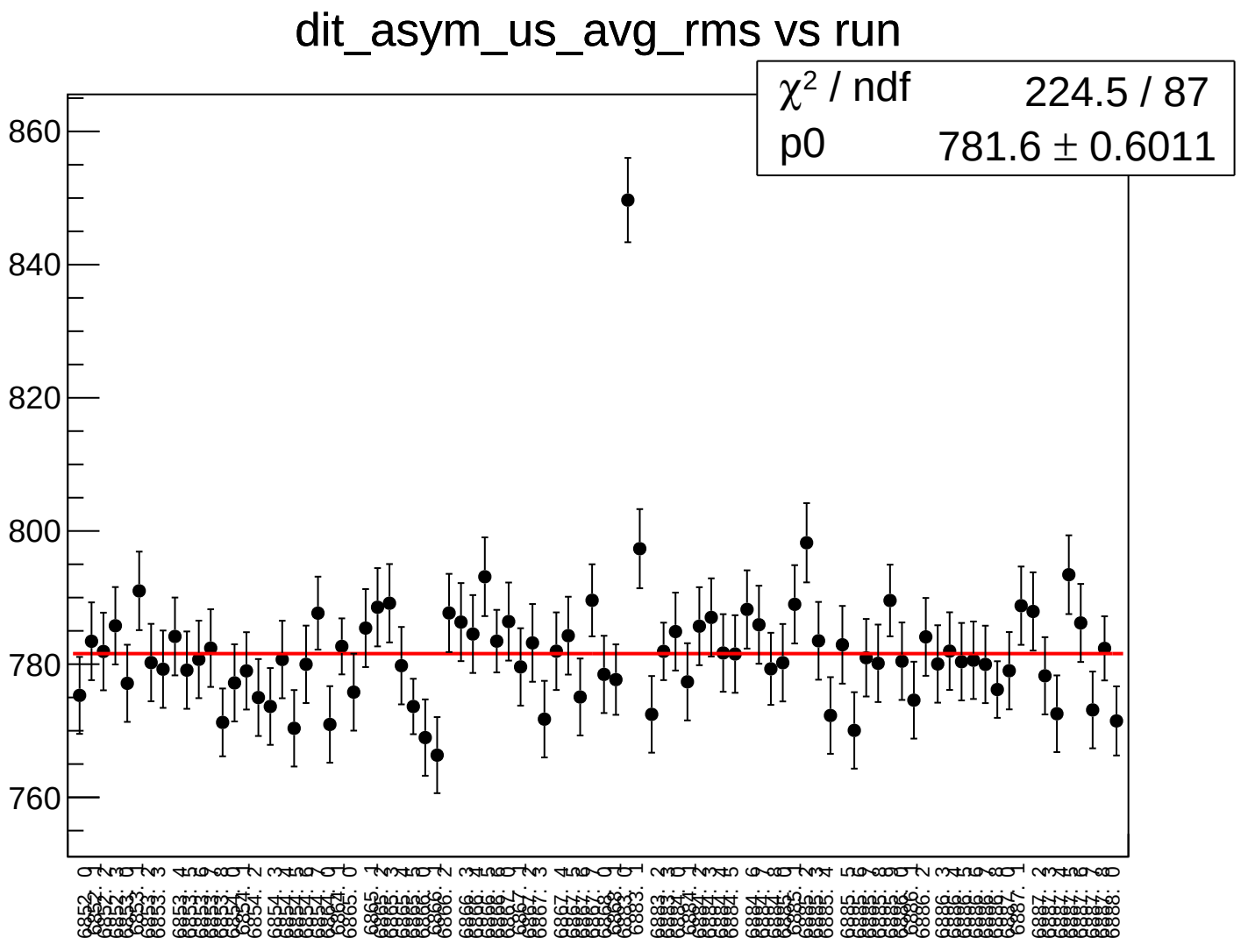
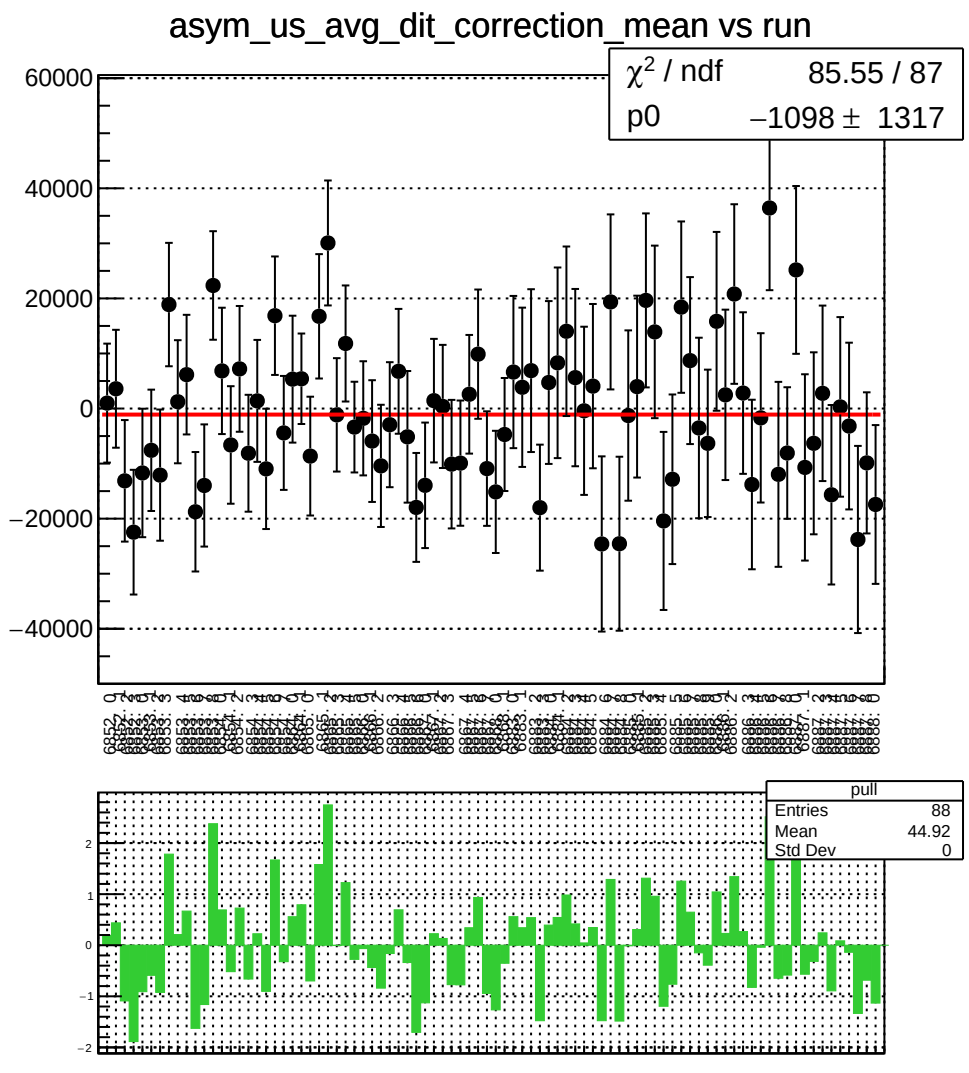
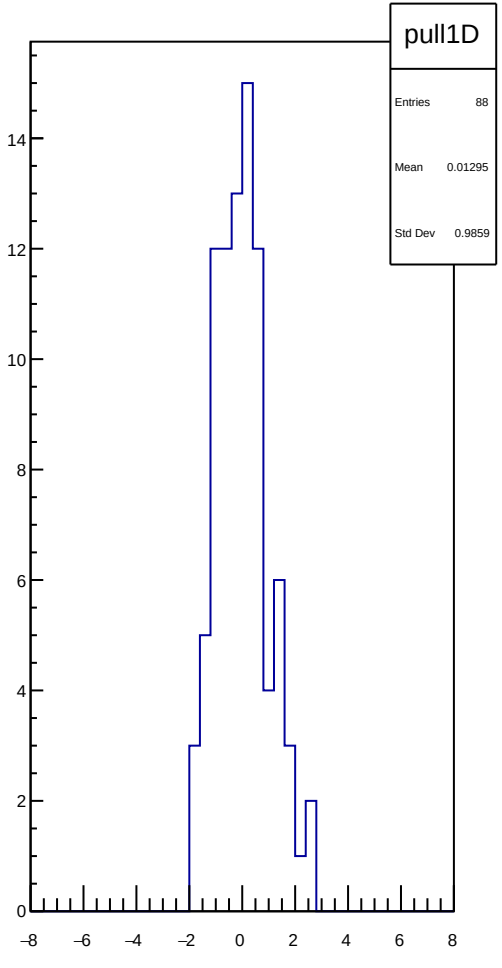
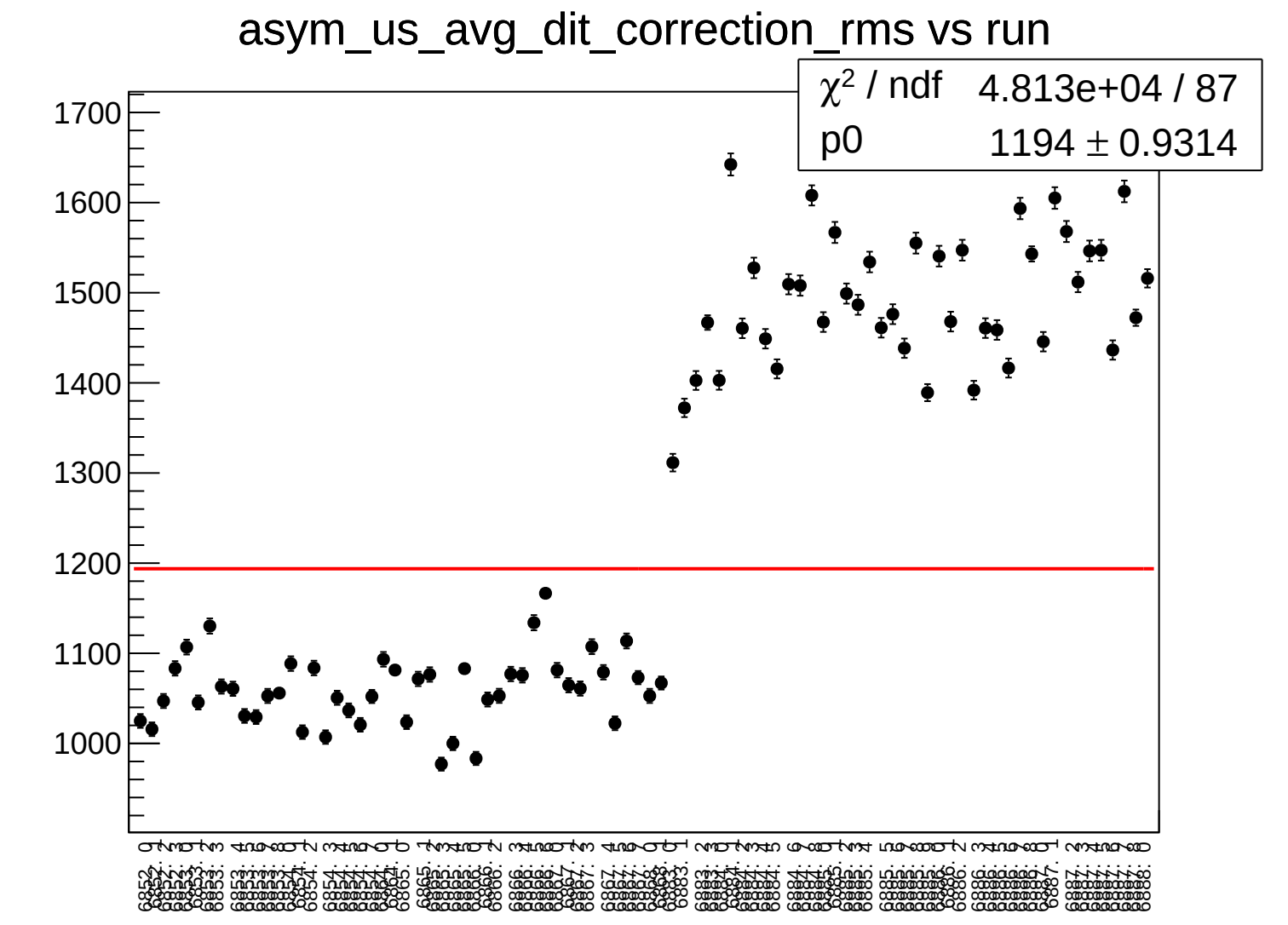
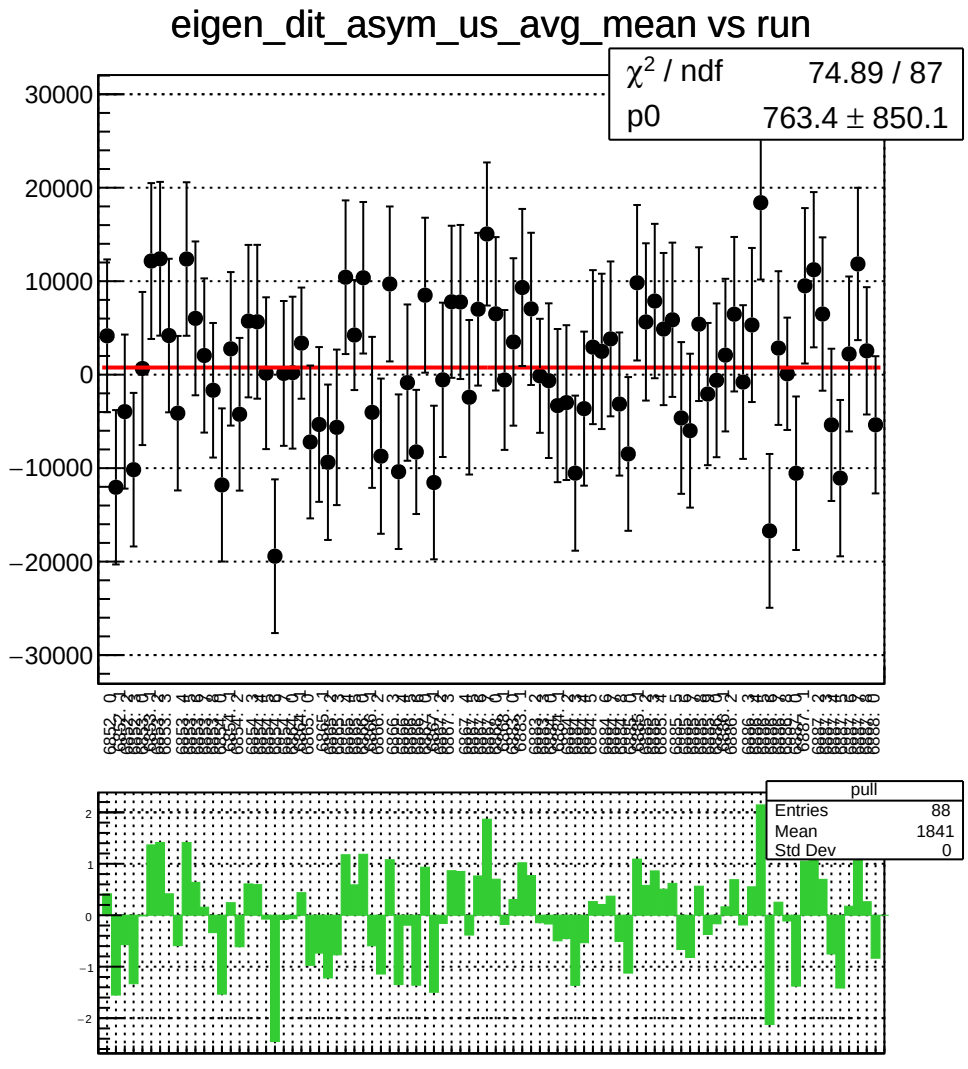
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

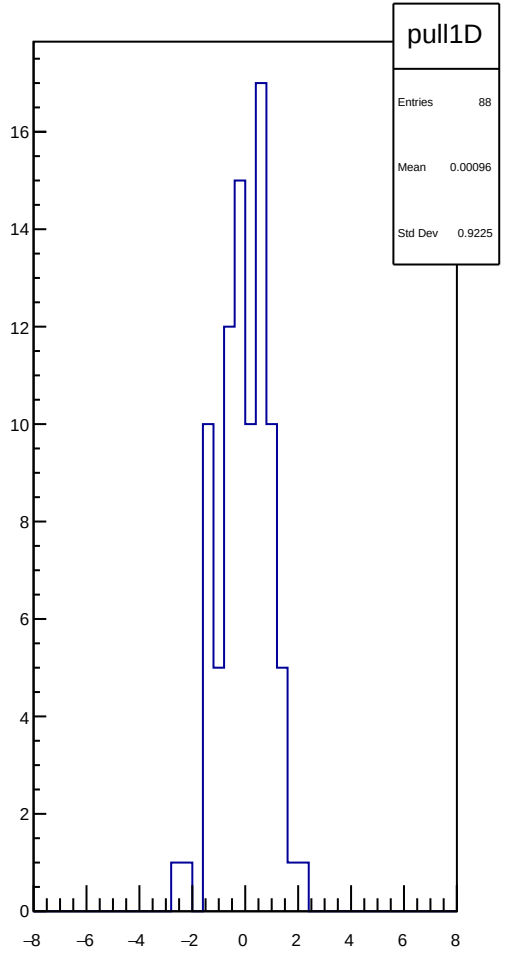

dit_asym_us_avg_rms vs run
χ² / ndf 224.5 / 87
p0 781.6 ± 0.6011
860
840
820
800
780
760

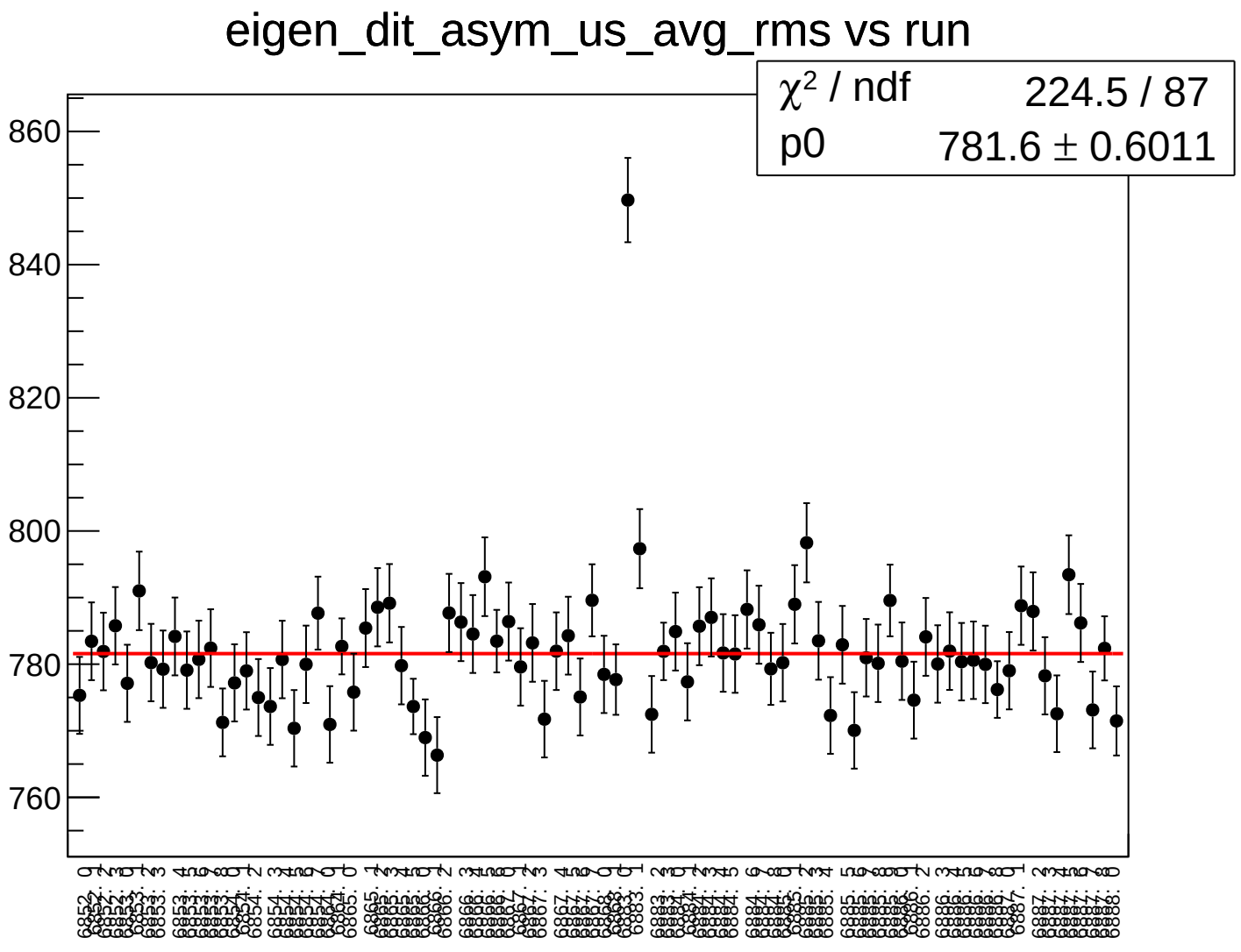

asym_us_avg_dit_correction_mean vs run
χ² / ndf 85.55 / 87
p0 −1098 ± 1317
pull
Entries 88
Mean 44.92
Std Dev 0

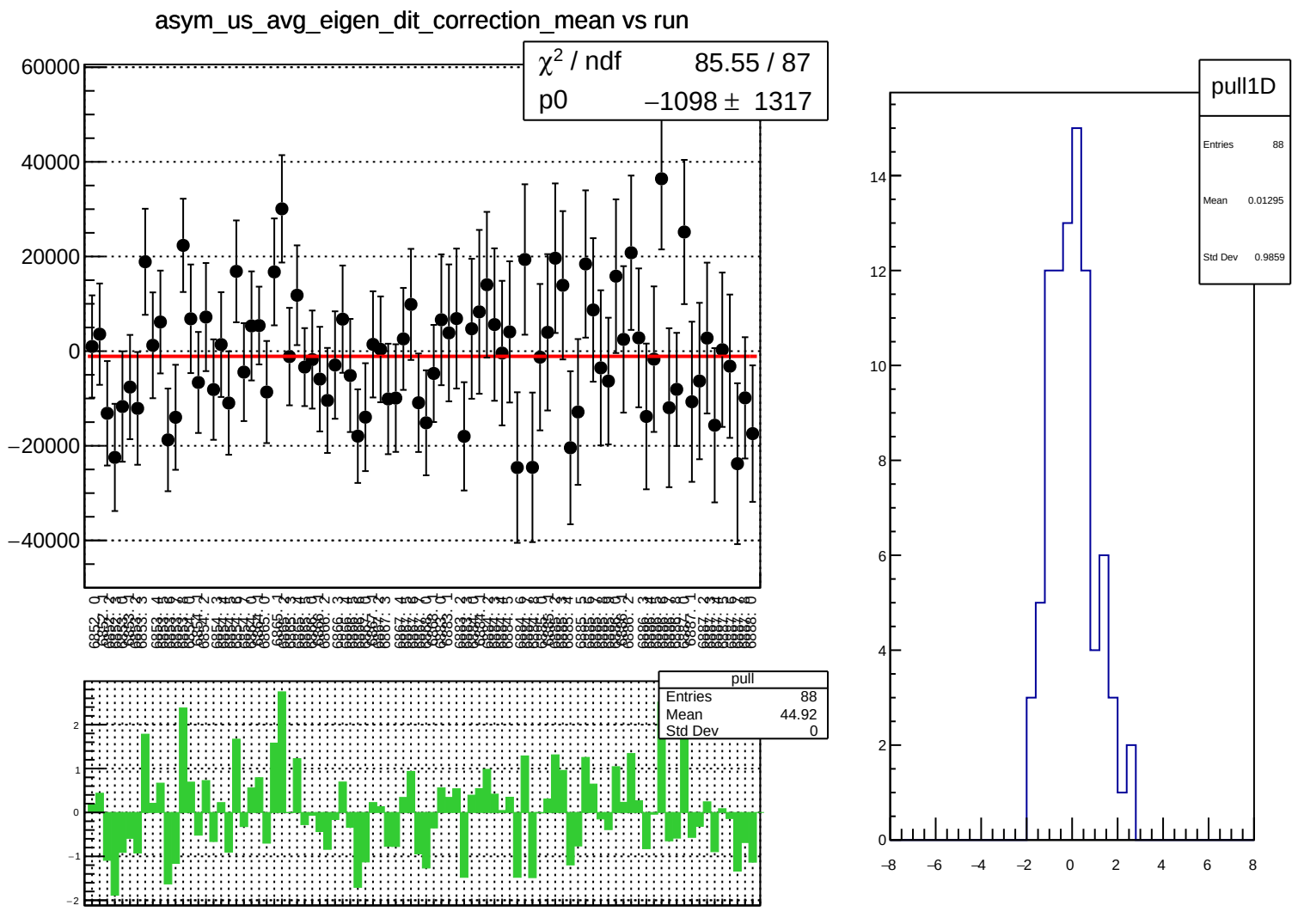

pull1D
Entries 88
Mean 0.01295
Std Dev 0.9859

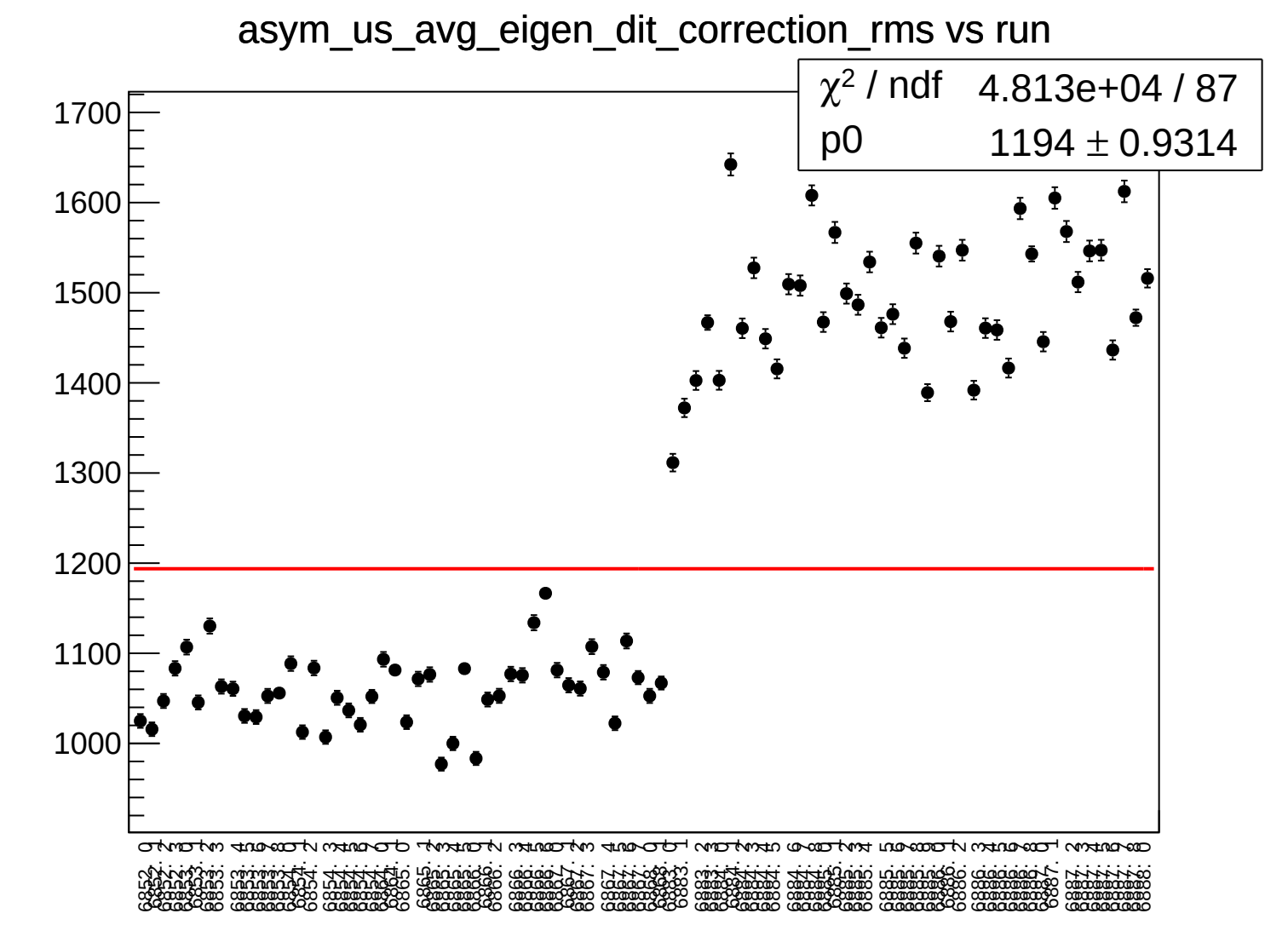

asym_us_avg_dit_correction_rms vs run
χ² / ndf 4.813e+04 / 87
p0 1194 ± 0.9314
1700
1600
1500
1400
1300
1200
1100
1000


eigen_dit_asym_us_avg_mean vs run
χ² / ndf 74.89 / 87
p0 763.4 ± 850.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 1841
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.00096
Std Dev 0.9225
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_us_avg_rms vs run
χ² / ndf 224.5 / 87
p0 781.6 ± 0.6011
860
840
820
800
780
760


asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.55 / 87
p0 −1098 ± 1317
pull
Entries 88
Mean 44.92
Std Dev 0
pull1D
Entries 88
Mean 0.01295
Std Dev 0.9859


asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.813e+04 / 87
p0 1194 ± 0.9314
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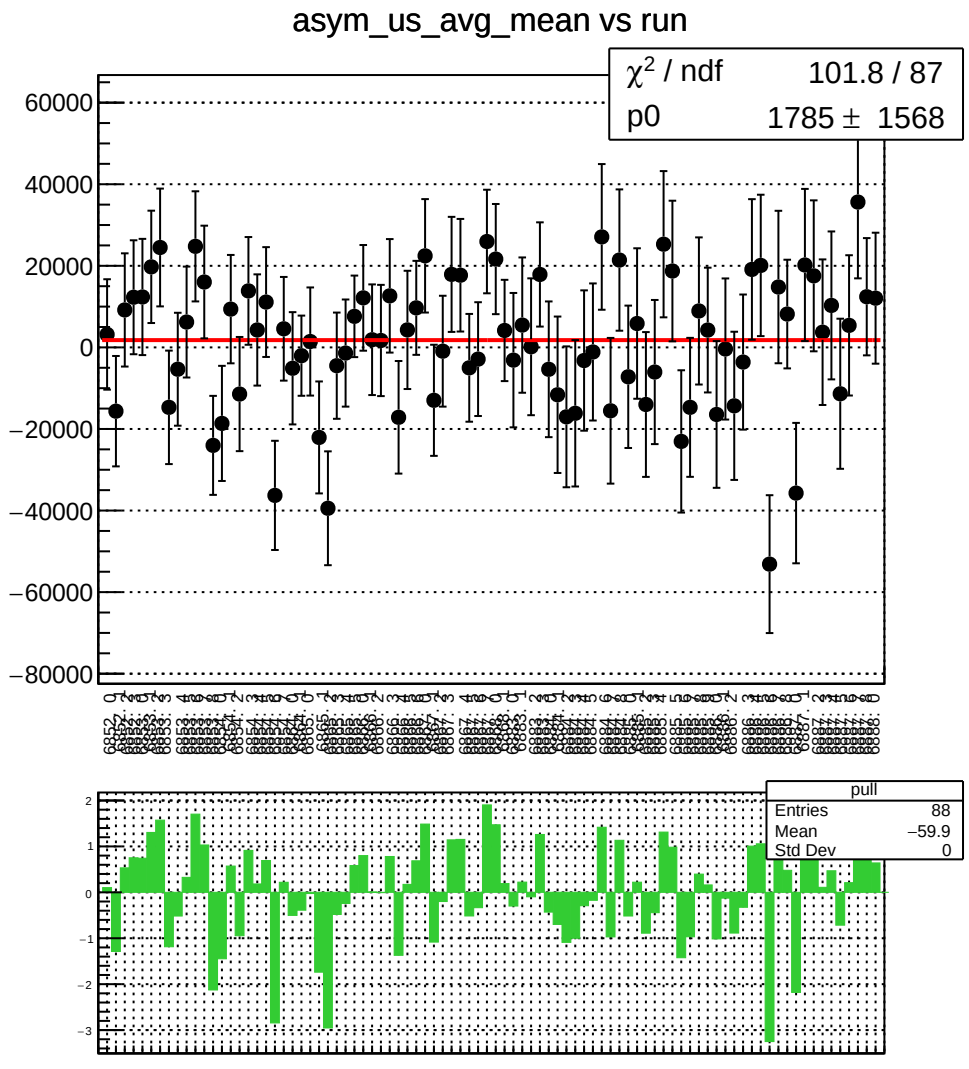
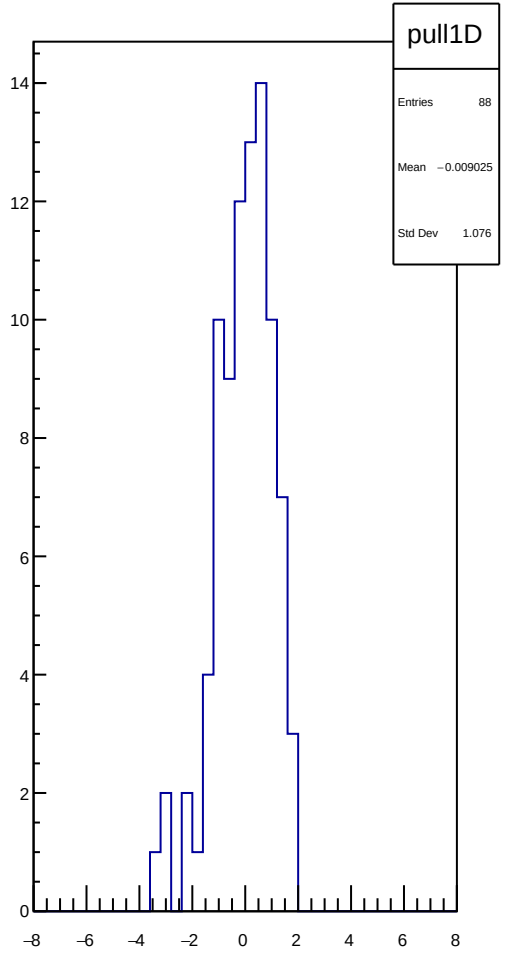
1600
1500
1400
1300
1200
1100
1000


asym_us_avg_mean vs run
χ² / ndf 101.8 / 87
p0 1785 ± 1568
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −59.9
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean −0.009025
Std Dev 1.076
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12
10
8
6
4
2
0
−8
−6
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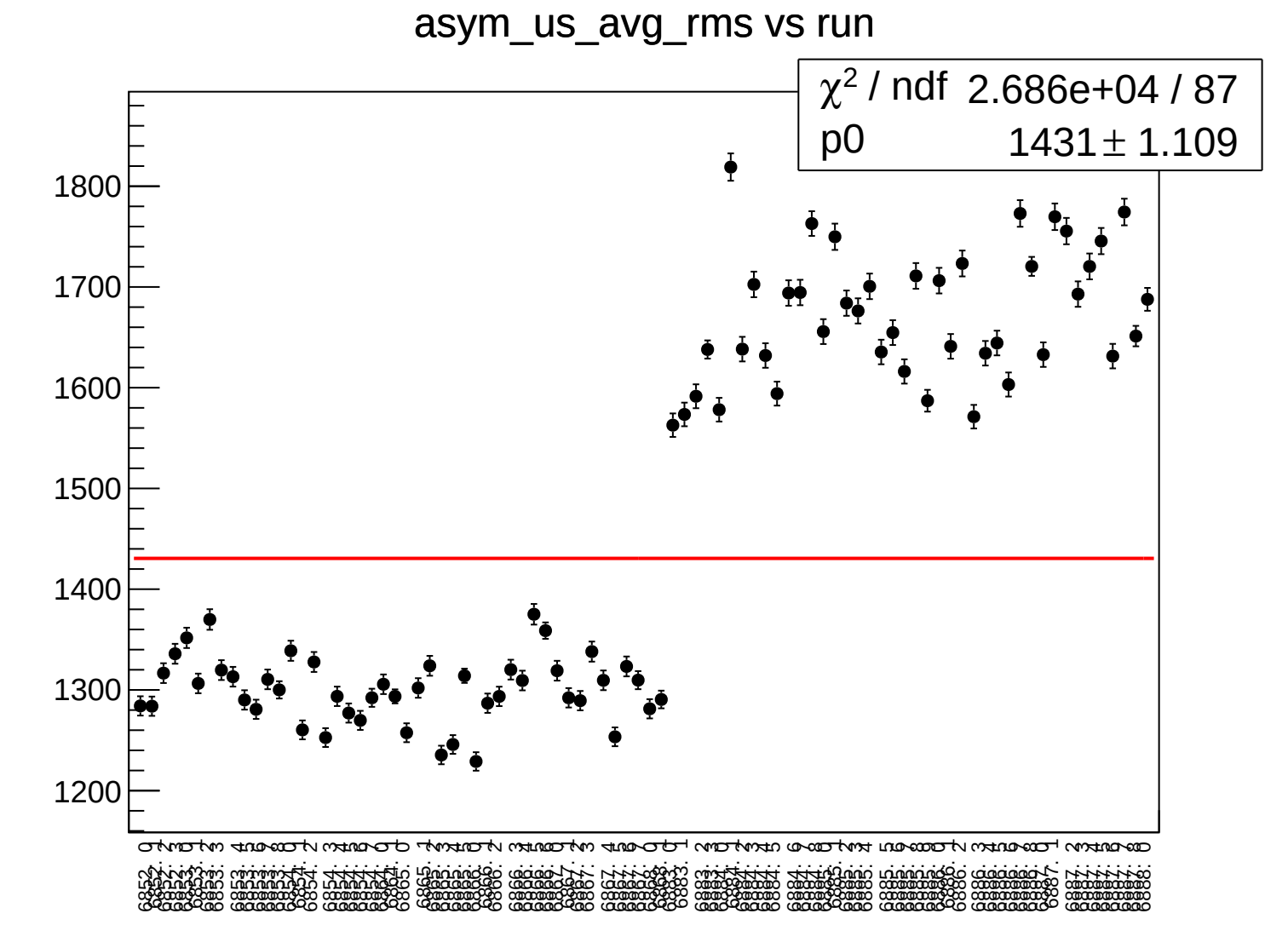
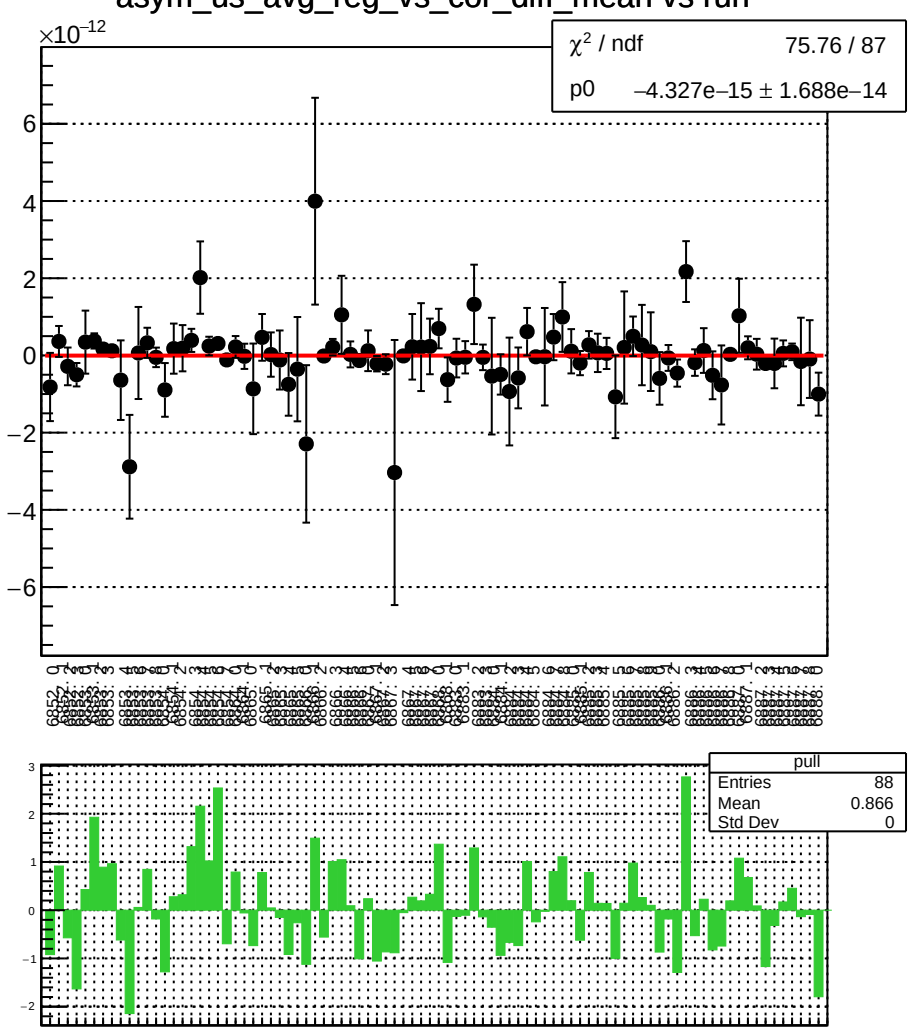
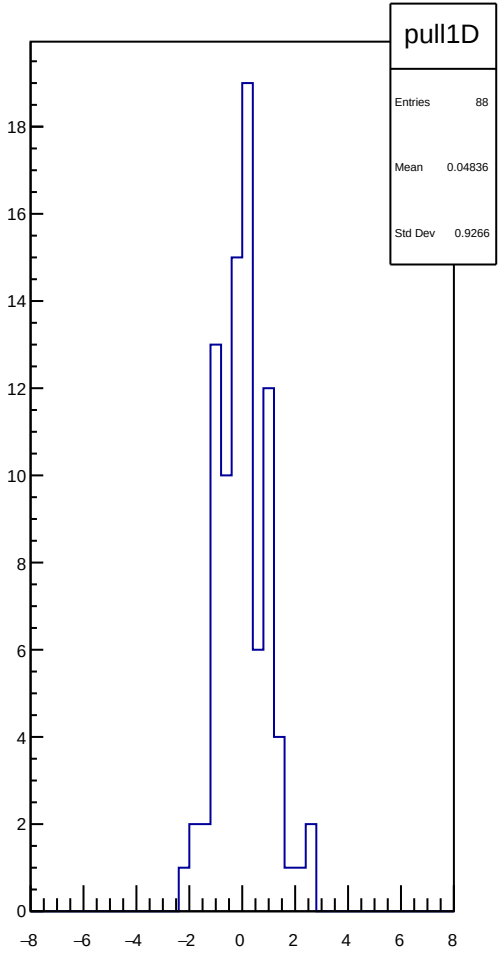
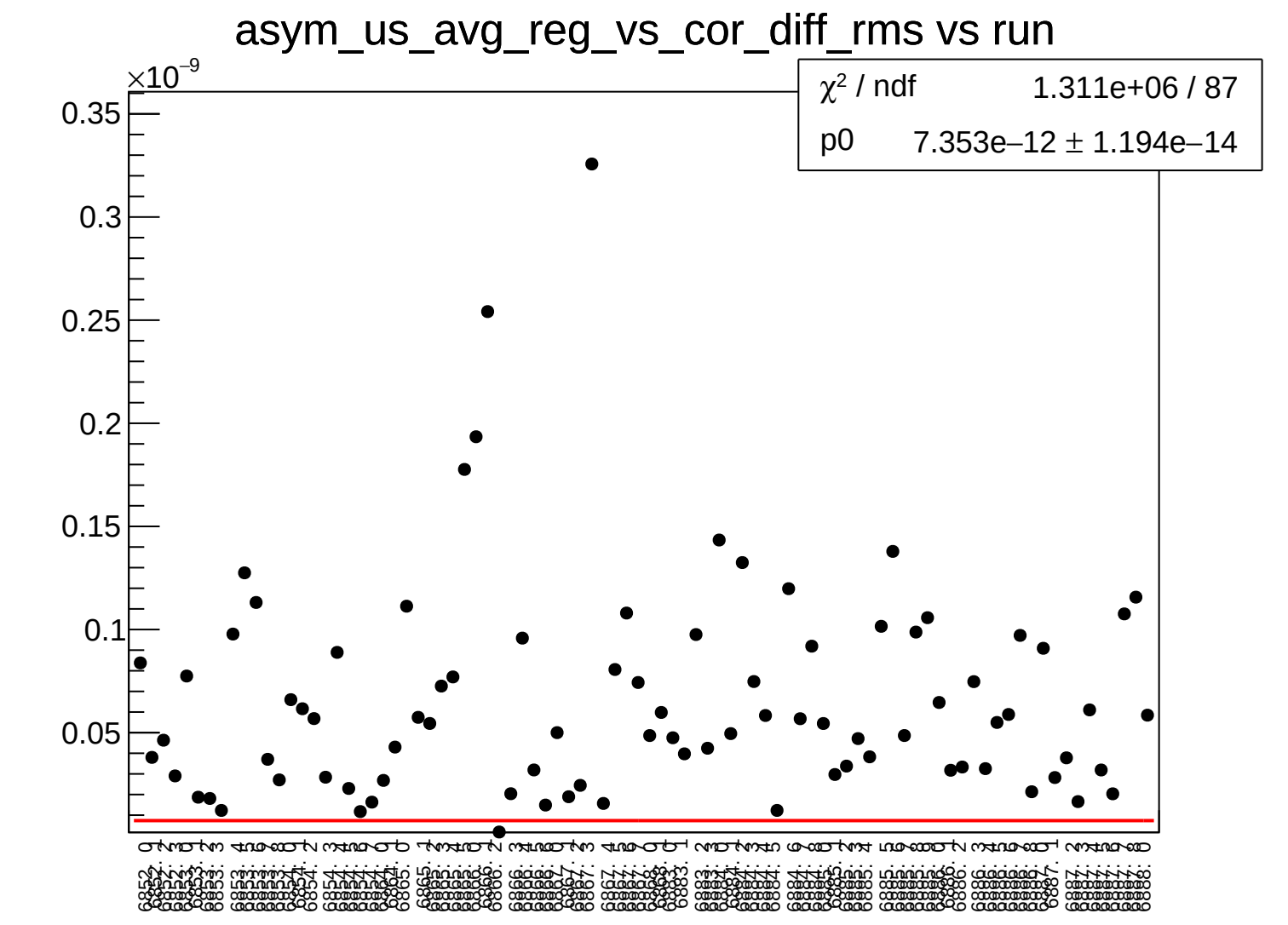
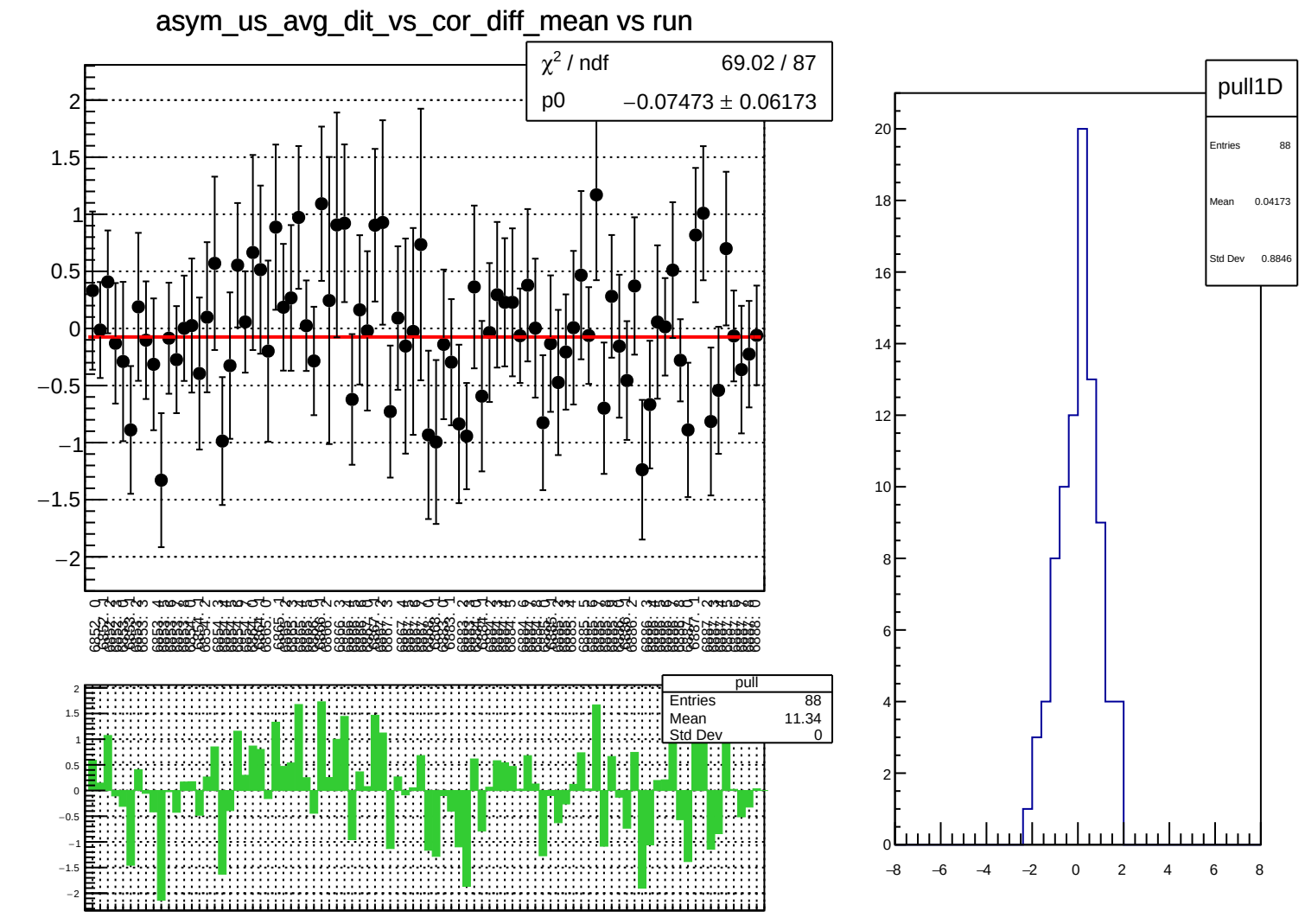
2
4
6
8

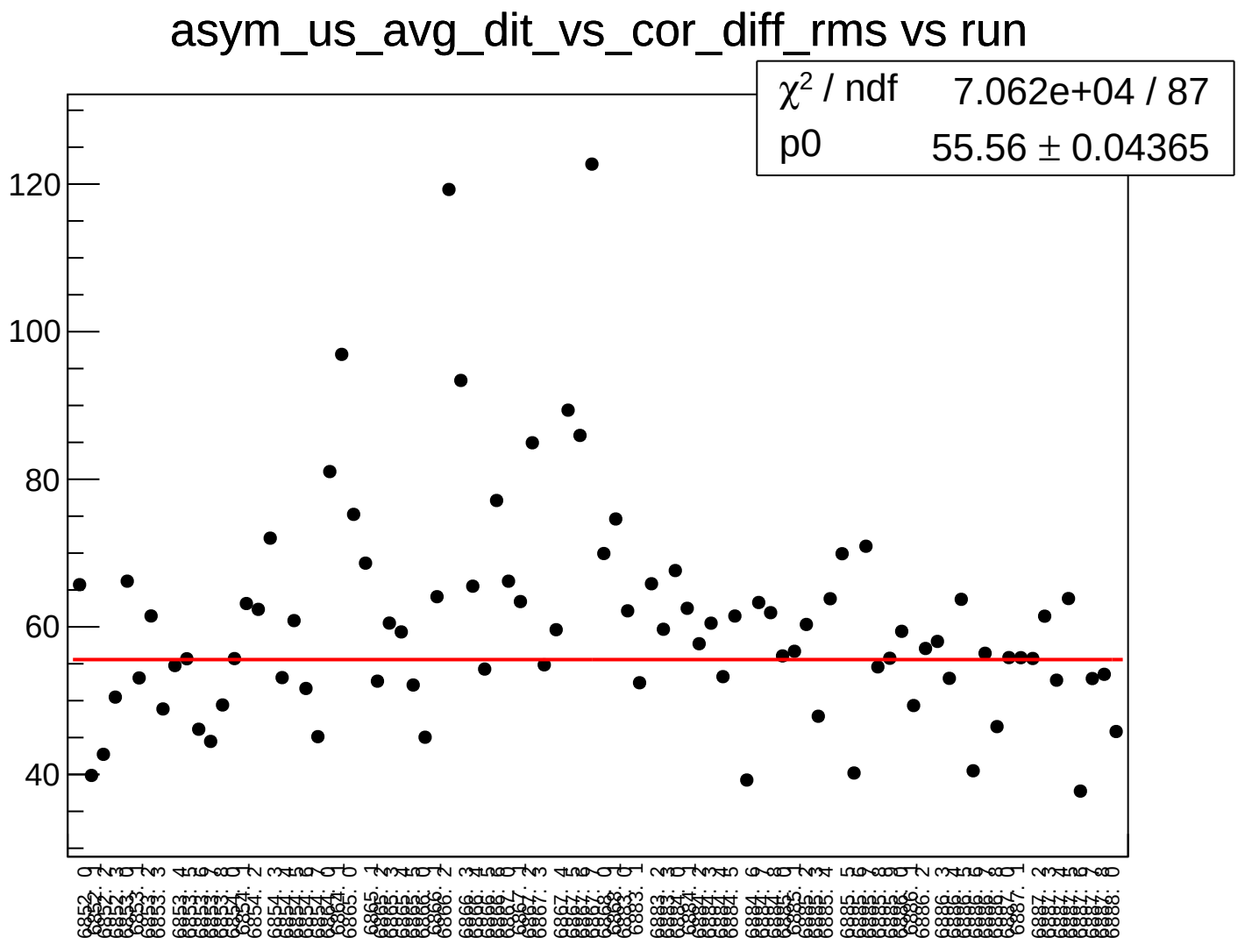

asym_us_avg_rms vs run
χ^2 / ndf 2.686e+04 / 87
p0 1431 ± 1.109
1800
1700
1600
1500
1400
1300
1200

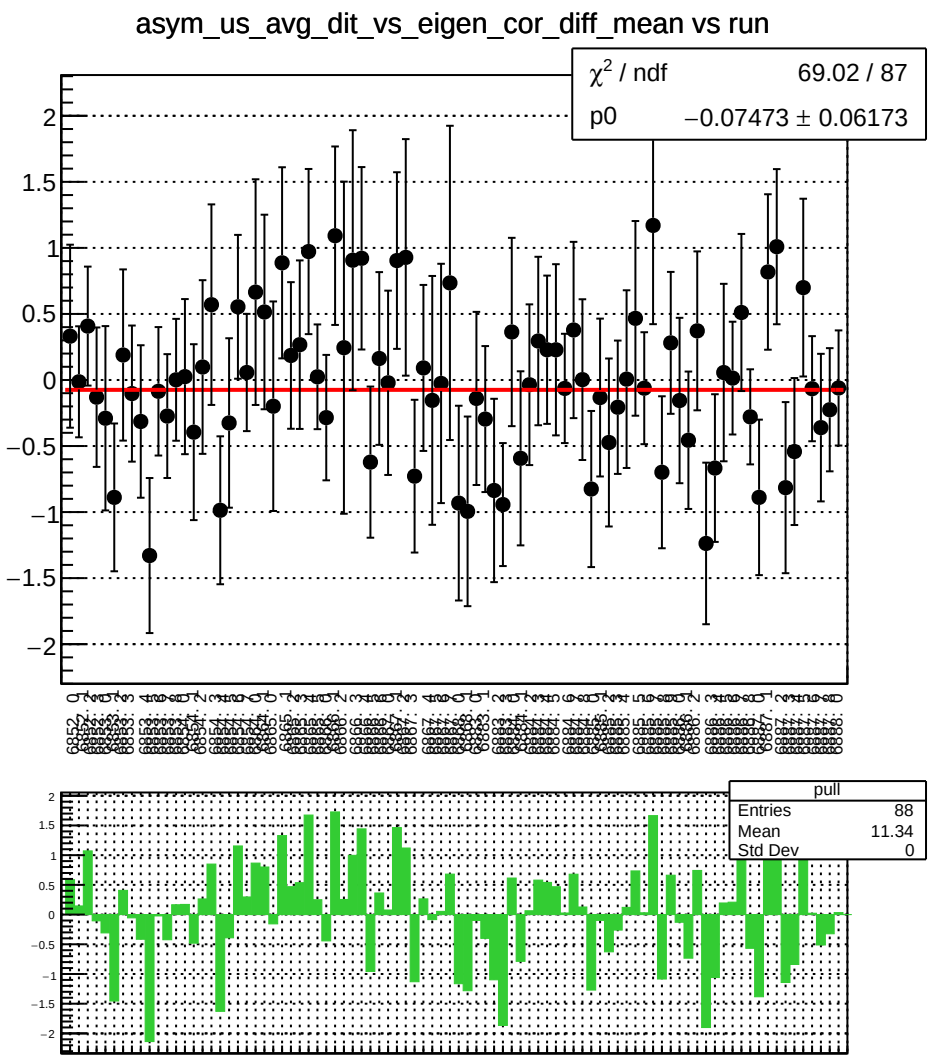

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.76 / 87
p0 −4.327e−15 ± 1.688e−14
pull
Entries 88
Mean 0.866
Std Dev 0

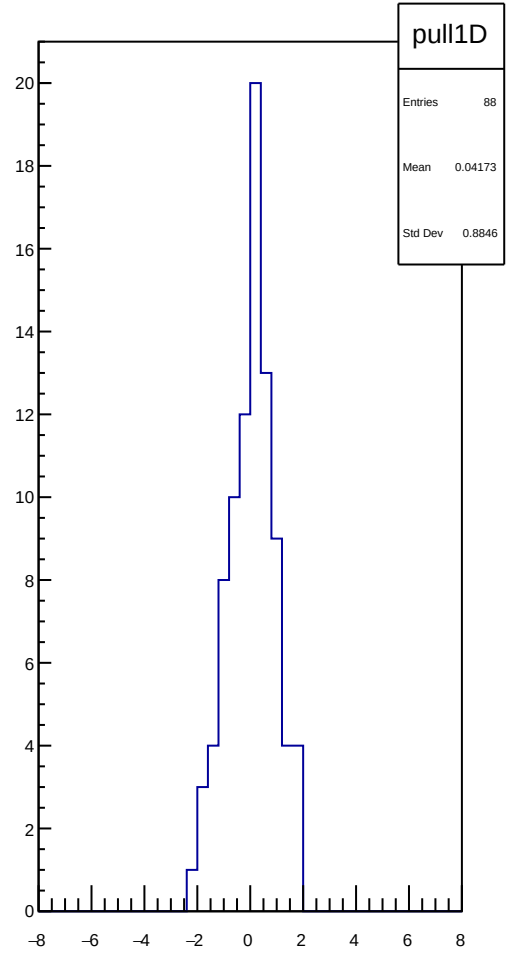

pull1D
Entries 88
Mean 0.04836
Std Dev 0.9266

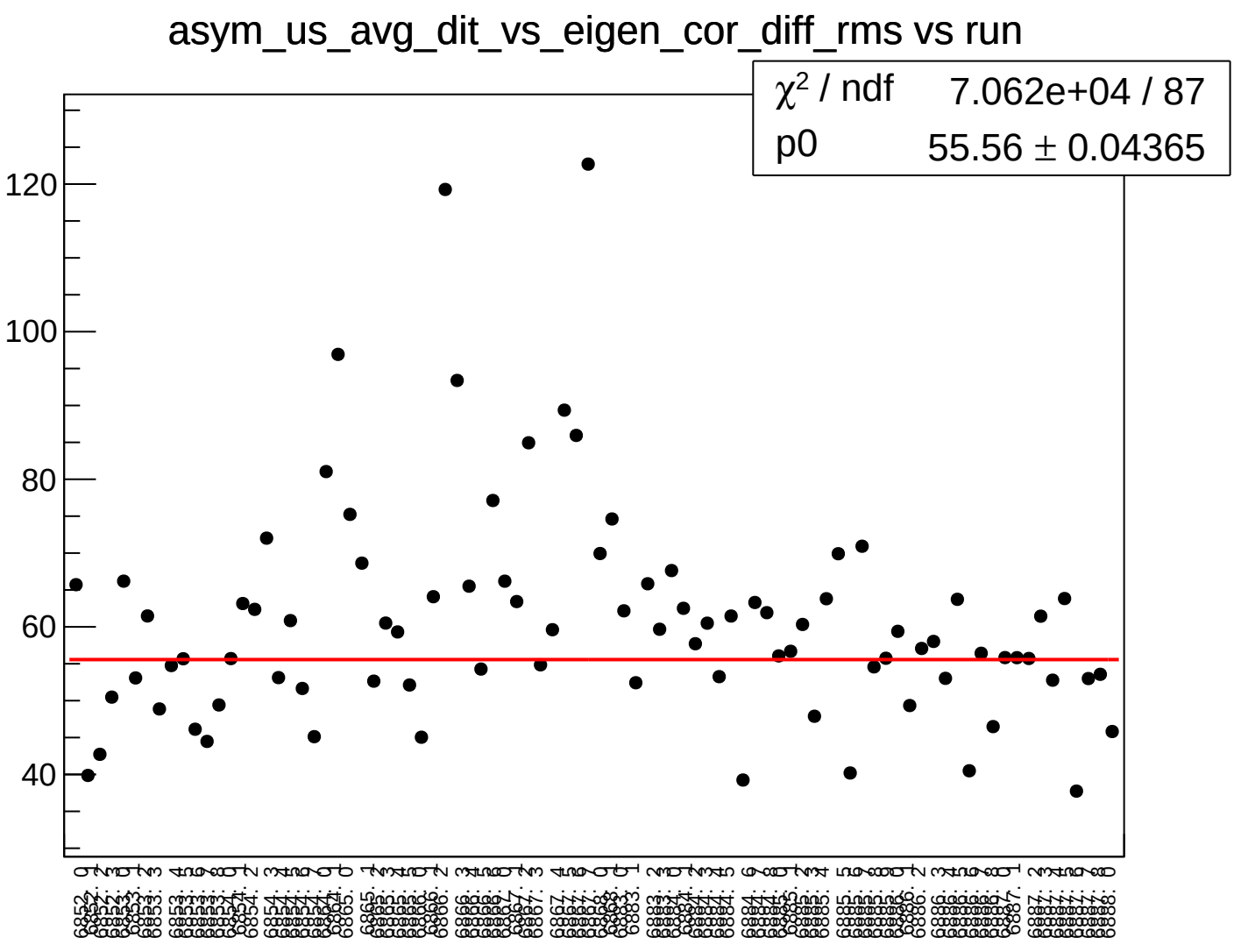

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.311e+06 / 87
p0 7.353e−12 ± 1.194e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

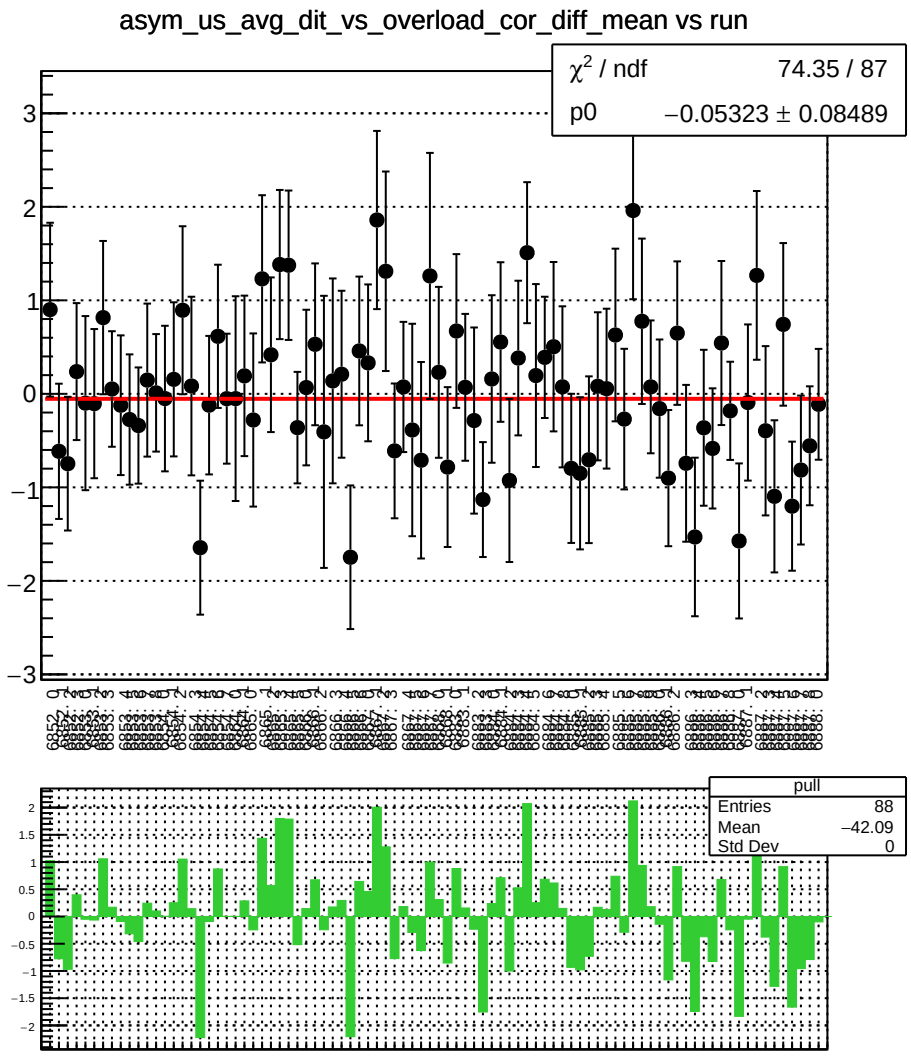

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.02 / 87
p0 −0.07473 ± 0.06173
pull
Entries 88
Mean 11.34
Std Dev 0
pull1D
Entries 88
Mean 0.04173
Std Dev 0.8846

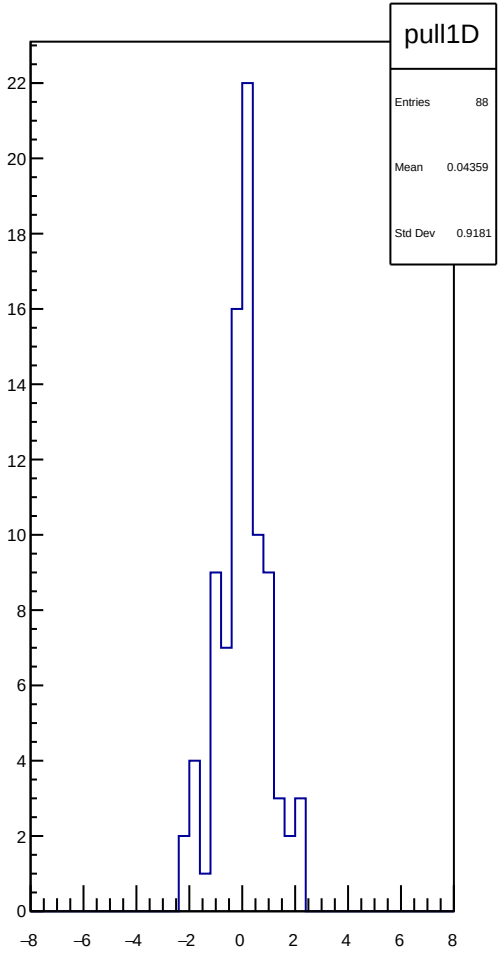

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.062e+04 / 87
p0 55.56 ± 0.04365
120
100
80
60
40

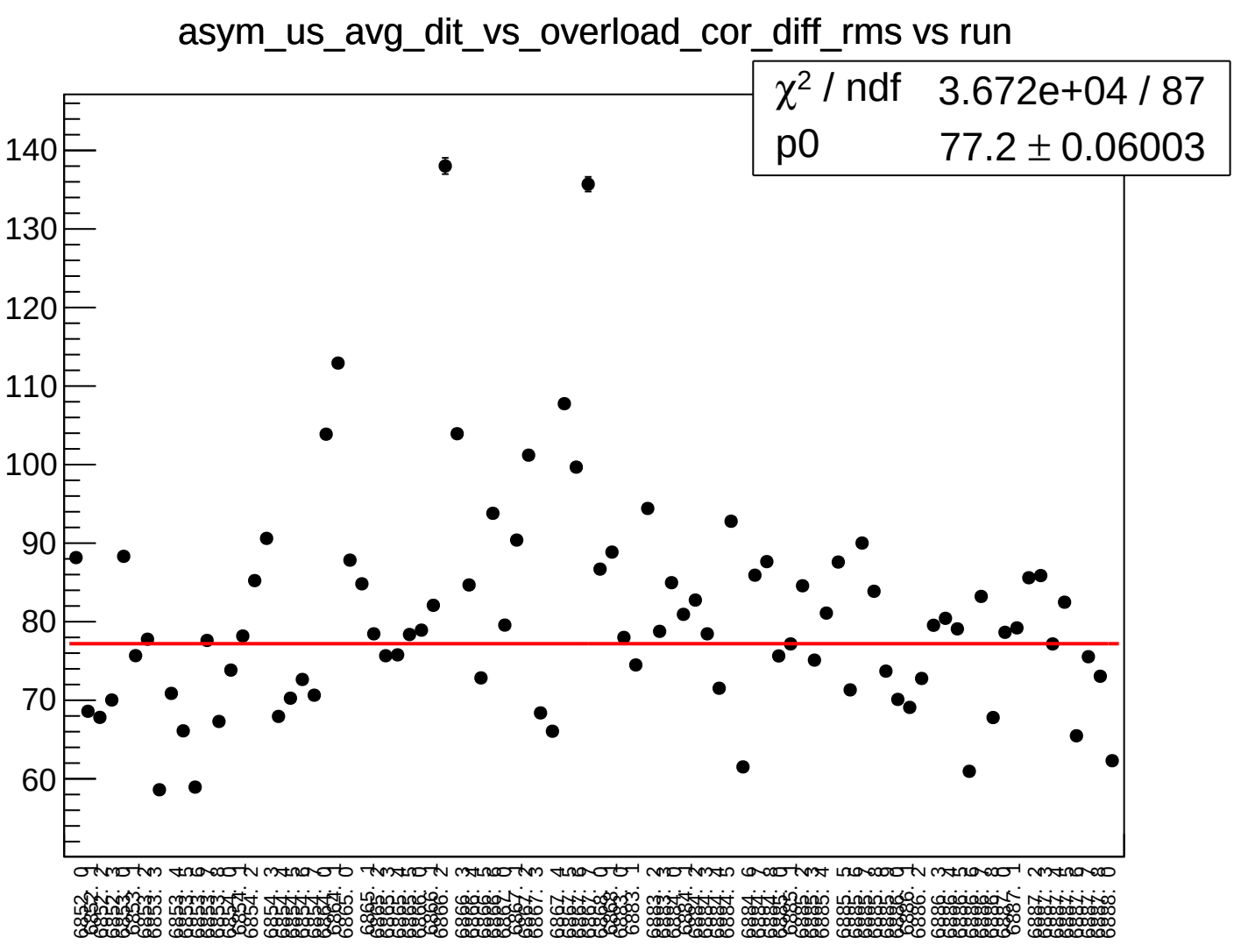

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.02 / 87
p0 −0.07473 ± 0.06173
pull
Entries 88
Mean 11.34
Std Dev 0

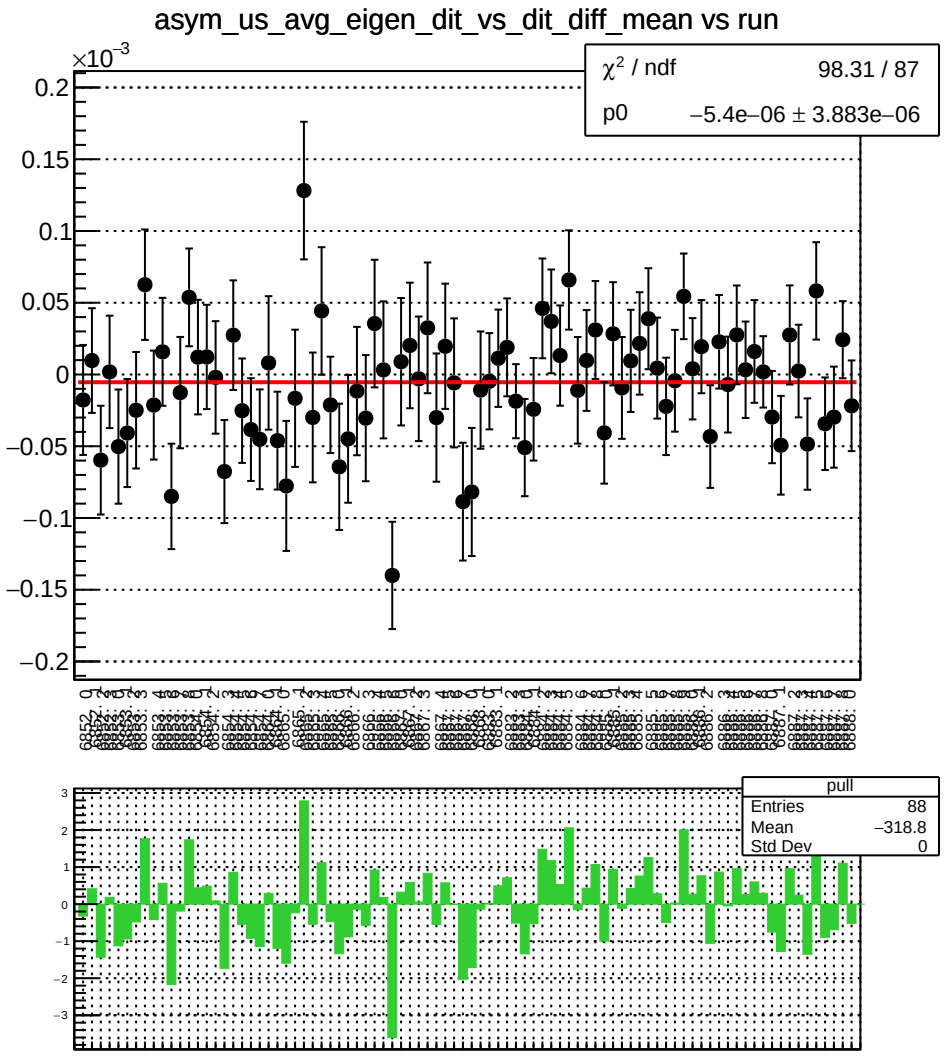

pull1D
Entries 88
Mean 0.04173
Std Dev 0.8846

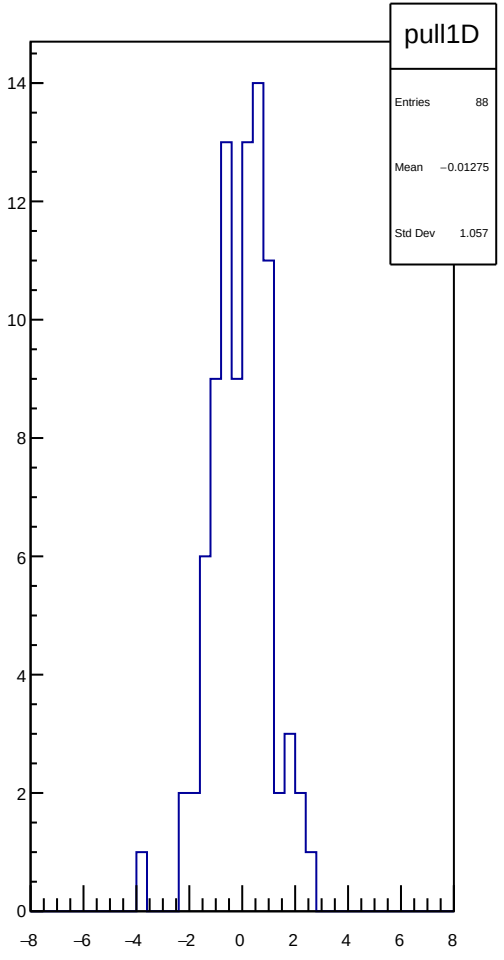

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.062e+04 / 87
p0 55.56 ± 0.04365
120
100
80
60
40

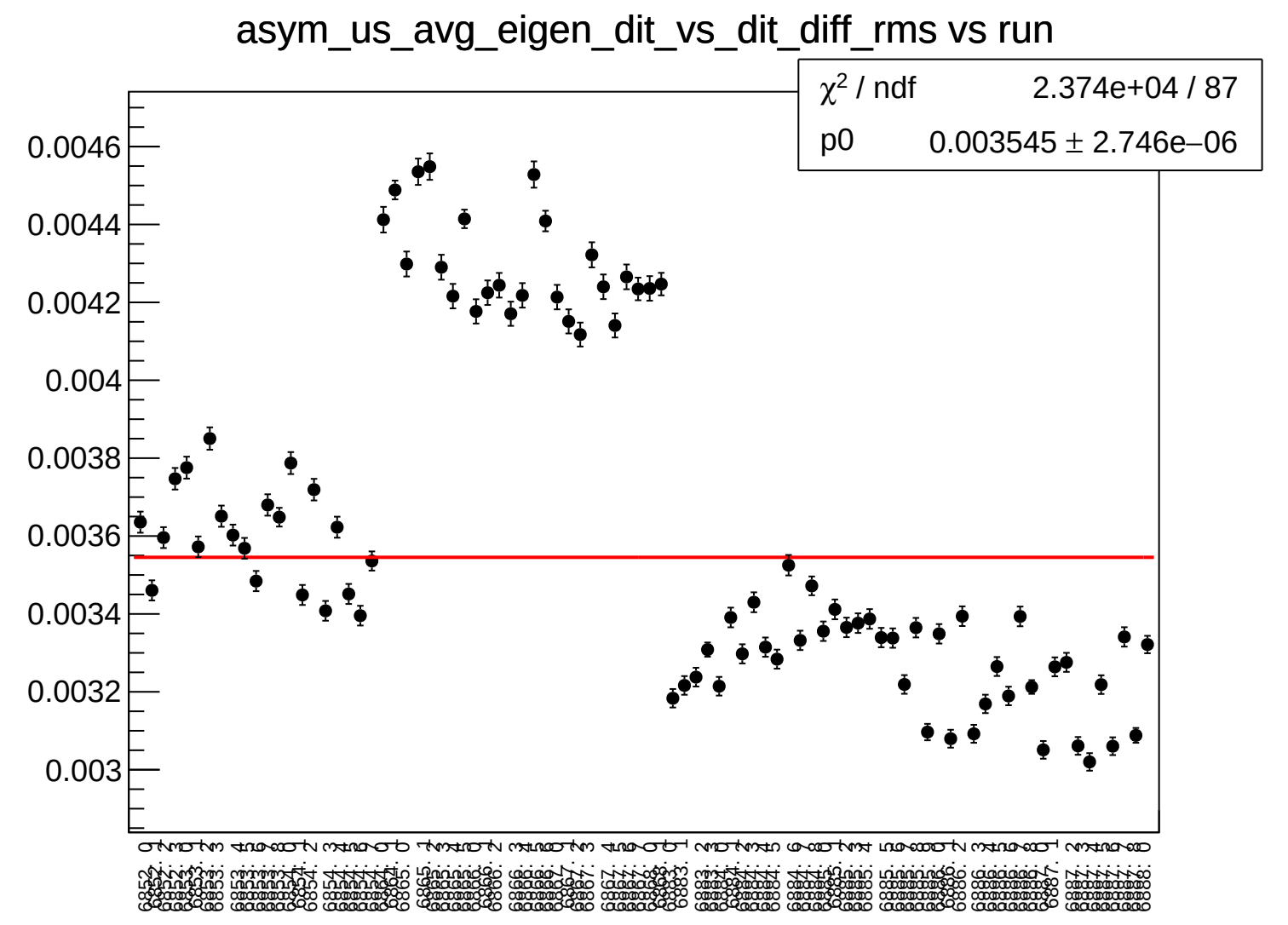

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 74.35 / 87
p0 −0.05323 ± 0.08489
pull
Entries 88
Mean −42.09
Std Dev 0

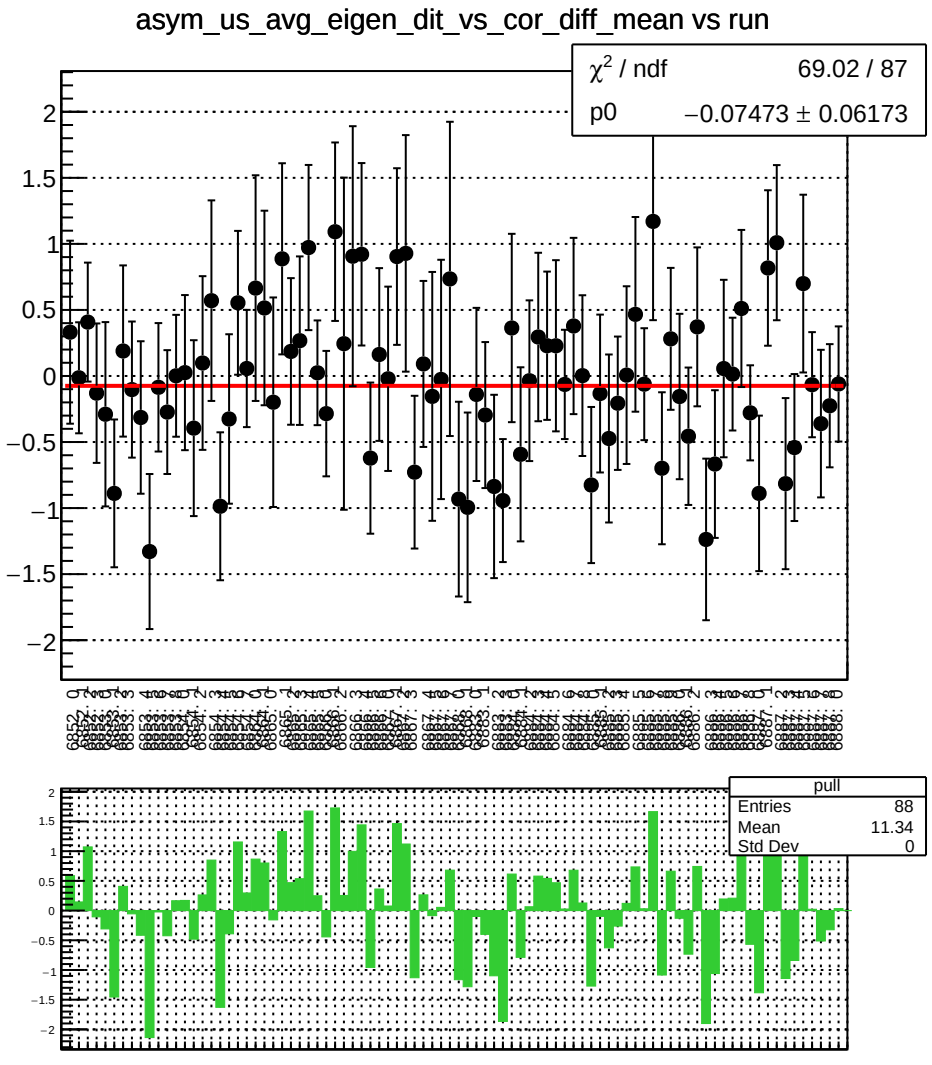

pull1D
Entries 88
Mean 0.04359
Std Dev 0.9181

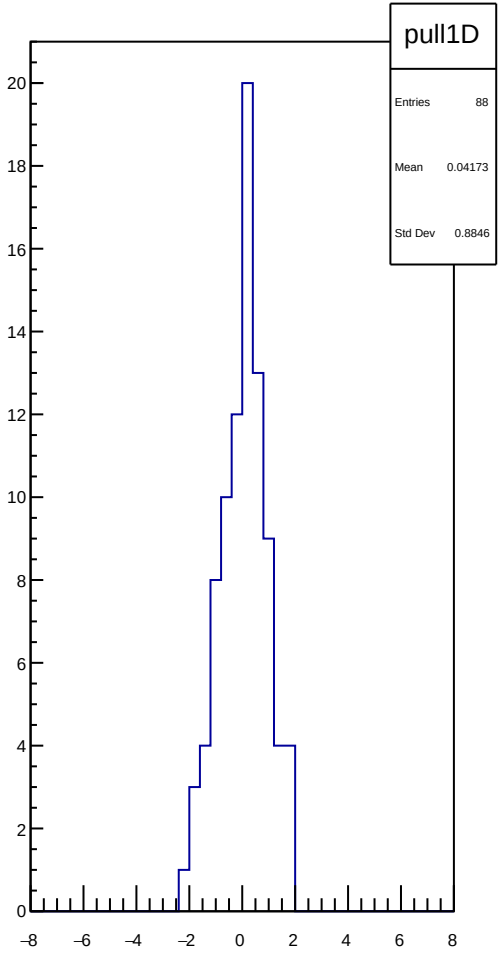

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.672e+04 / 87
p0 77.2 ± 0.06003
140
130
120
110
100
90
80
70
60

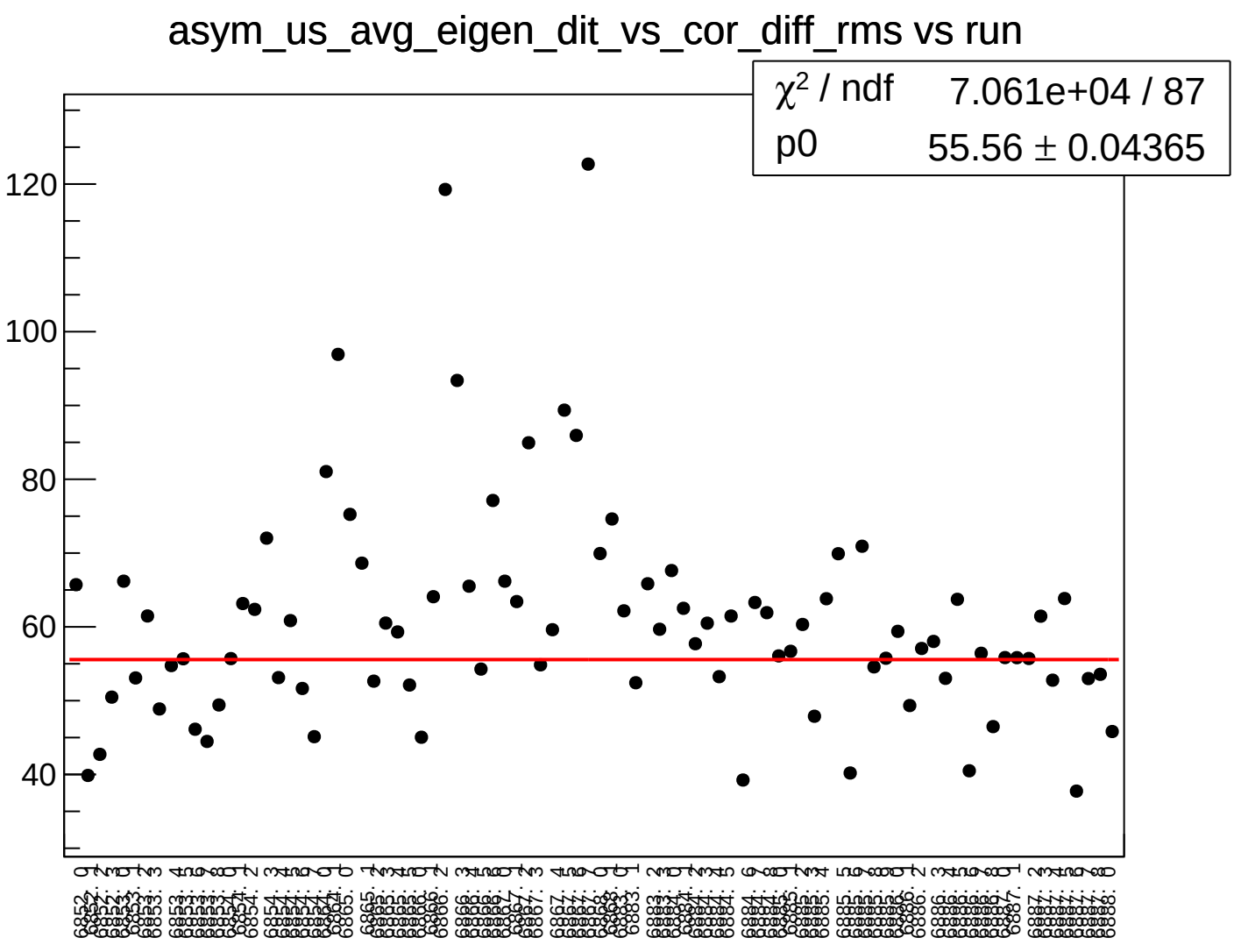

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.31 / 87
p0 −5.4e−06 ± 3.883e−06
pull
Entries 88
Mean −318.8
Std Dev 0

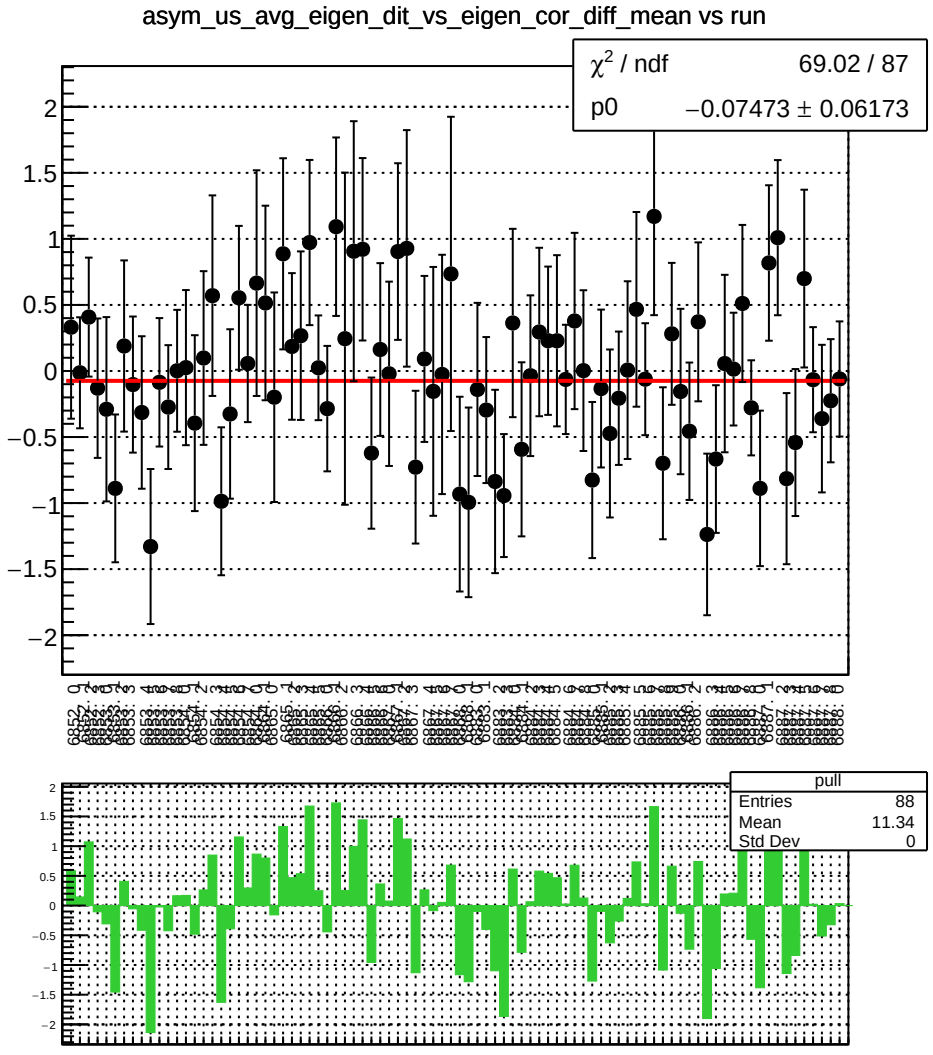

pull1D
Entries 88
Mean −0.01275
Std Dev 1.057

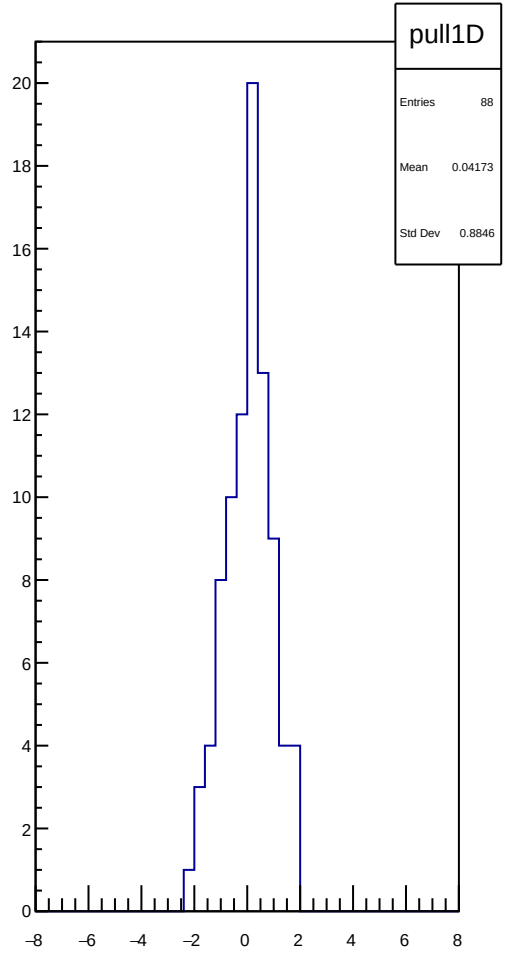

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.374e+04 / 87
p0 0.003545 ± 2.746e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

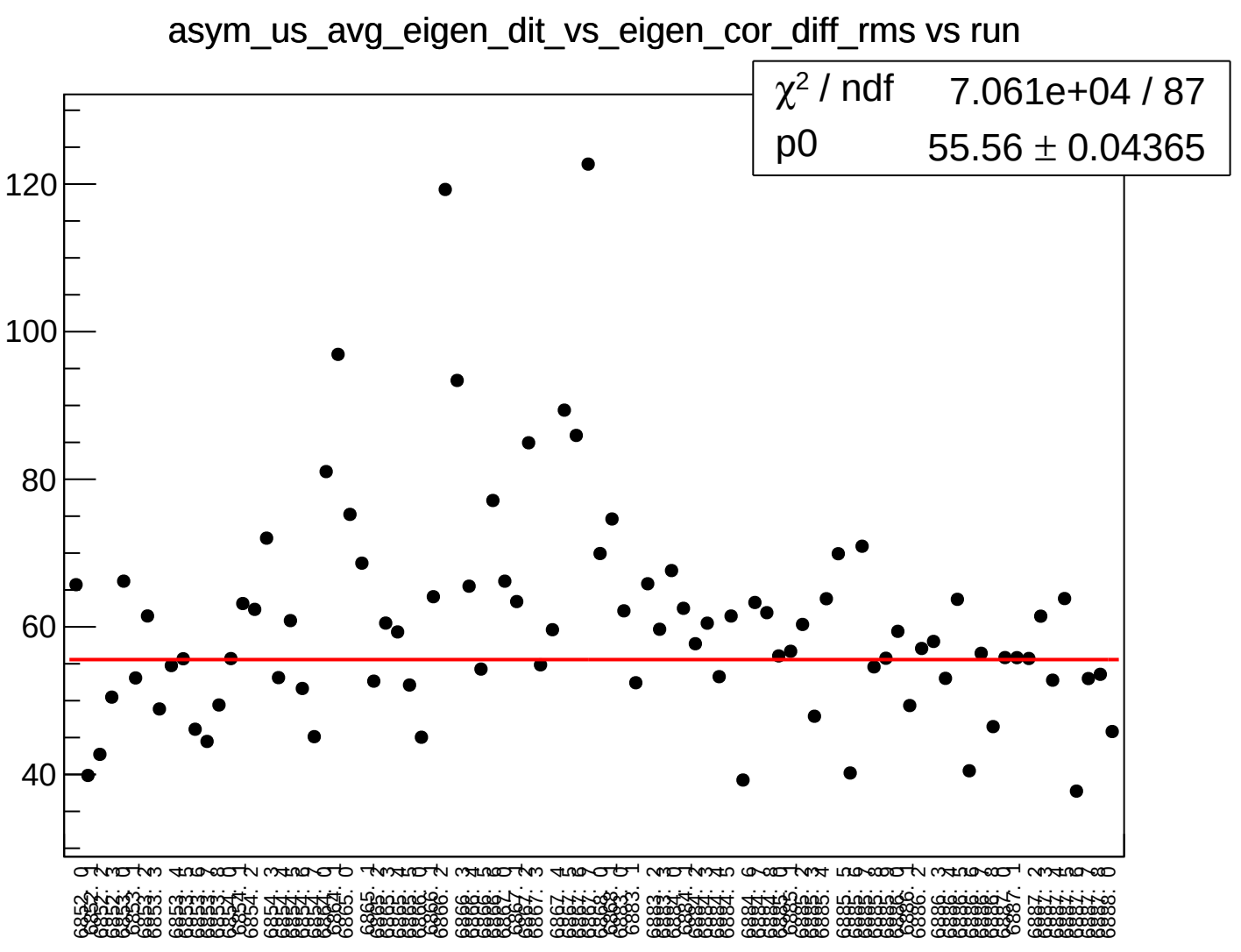

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.02 / 87
p0 −0.07473 ± 0.06173
pull
Entries 88
Mean 11.34
Std Dev 0

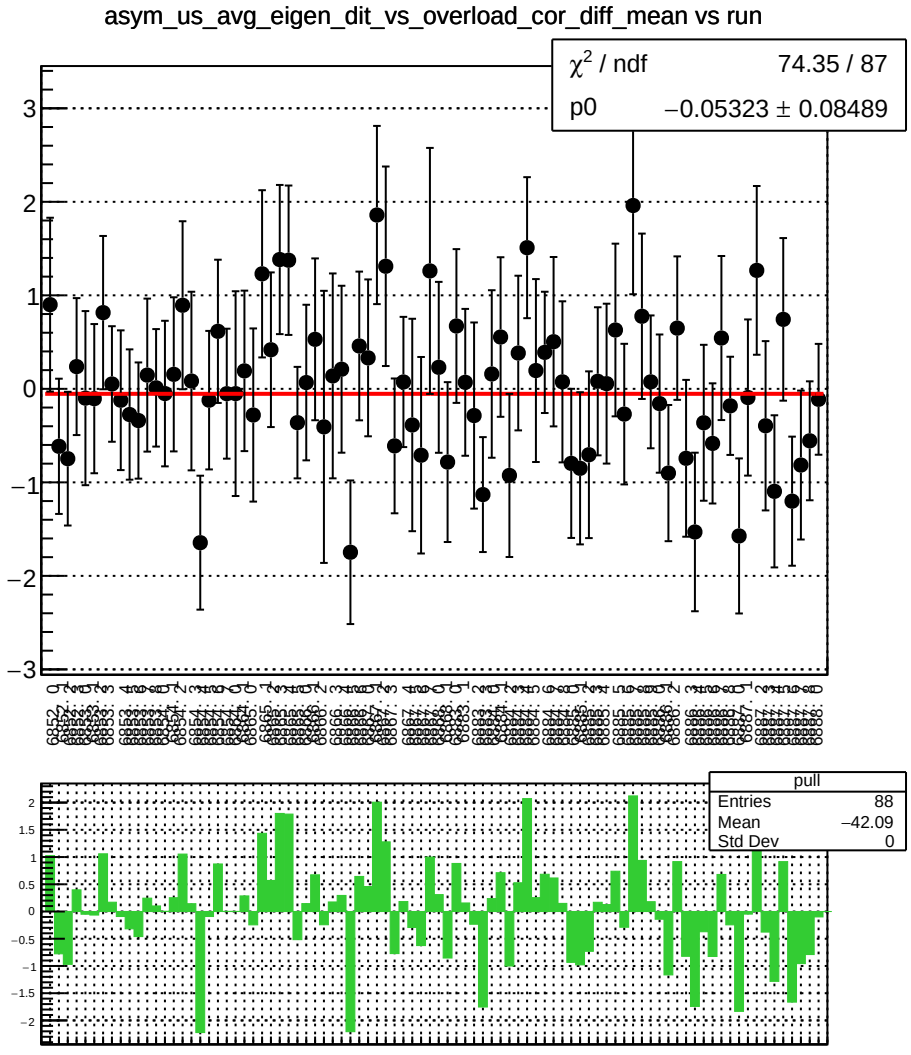

pull1D
Entries 88
Mean 0.04173
Std Dev 0.8846

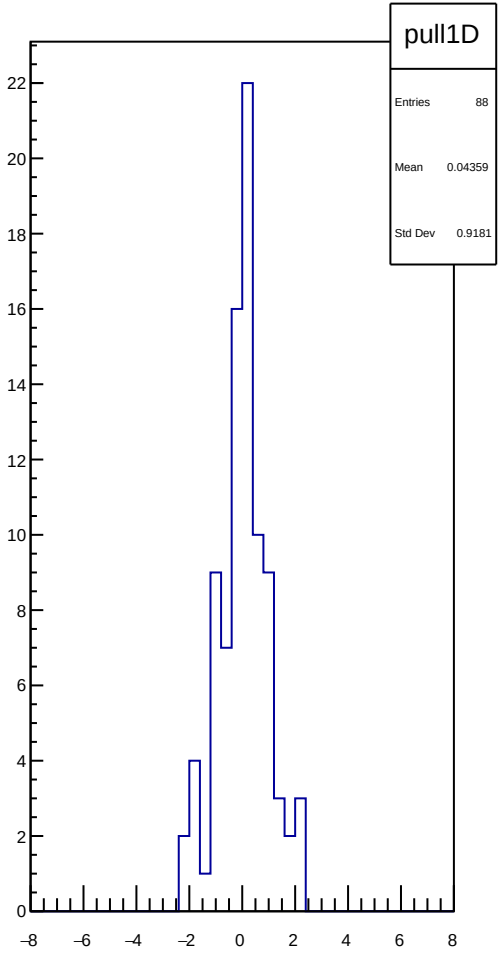

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.061e+04 / 87
p0 55.56 ± 0.04365
120
100
80
60
40

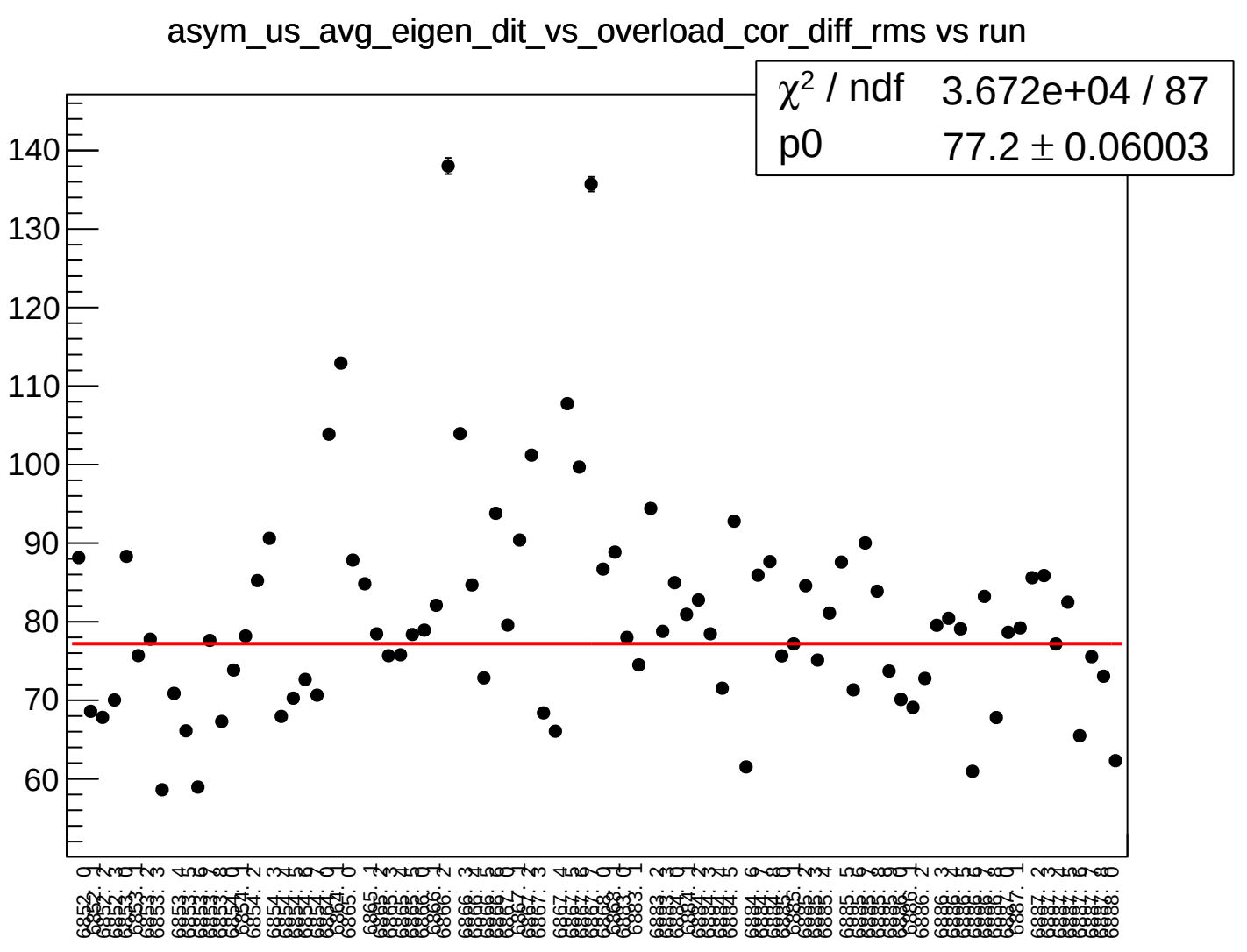

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.02 / 87
p0 −0.07473 ± 0.06173
pull
Entries 88
Mean 11.34
Std Dev 0

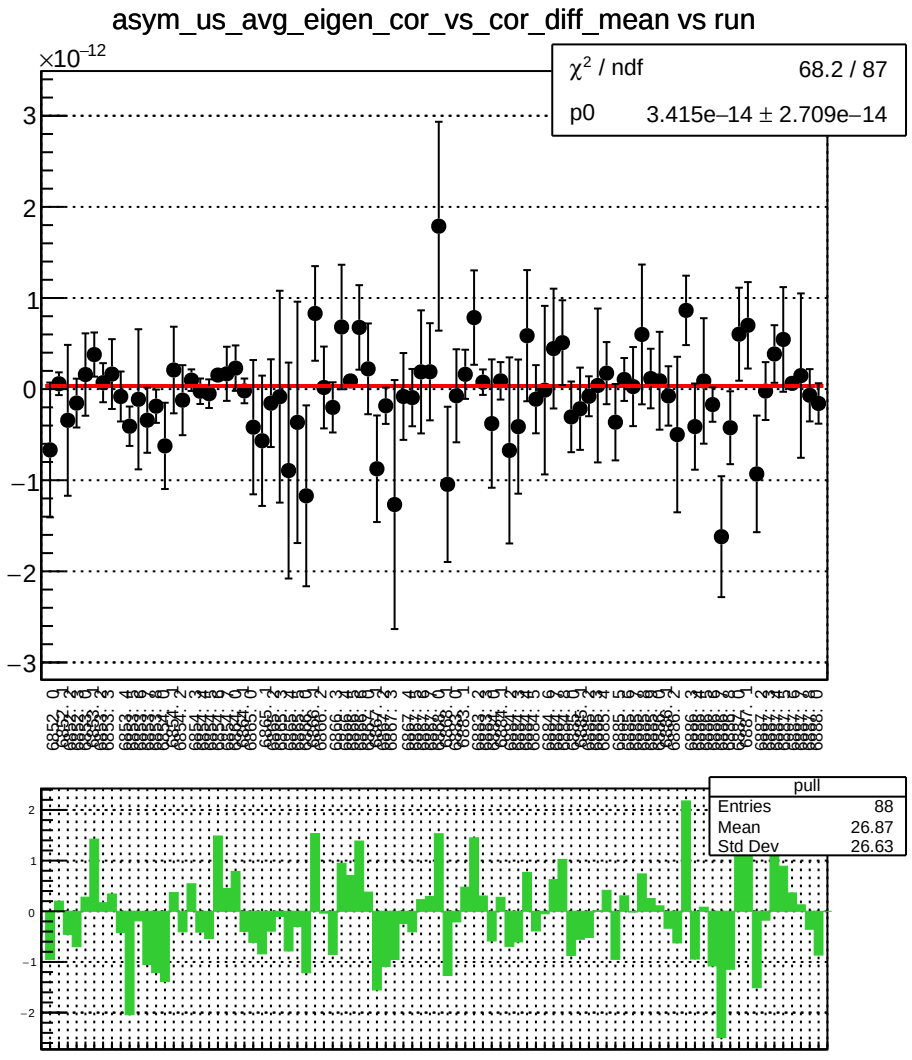

pull1D
Entries 88
Mean 0.04173
Std Dev 0.8846

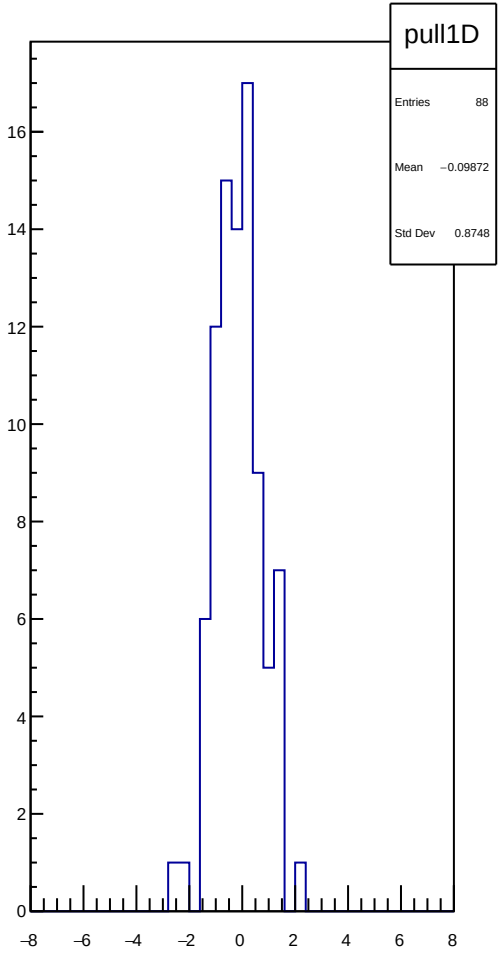

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.061e+04 / 87
p0 55.56 ± 0.04365
120
100
80
60
40

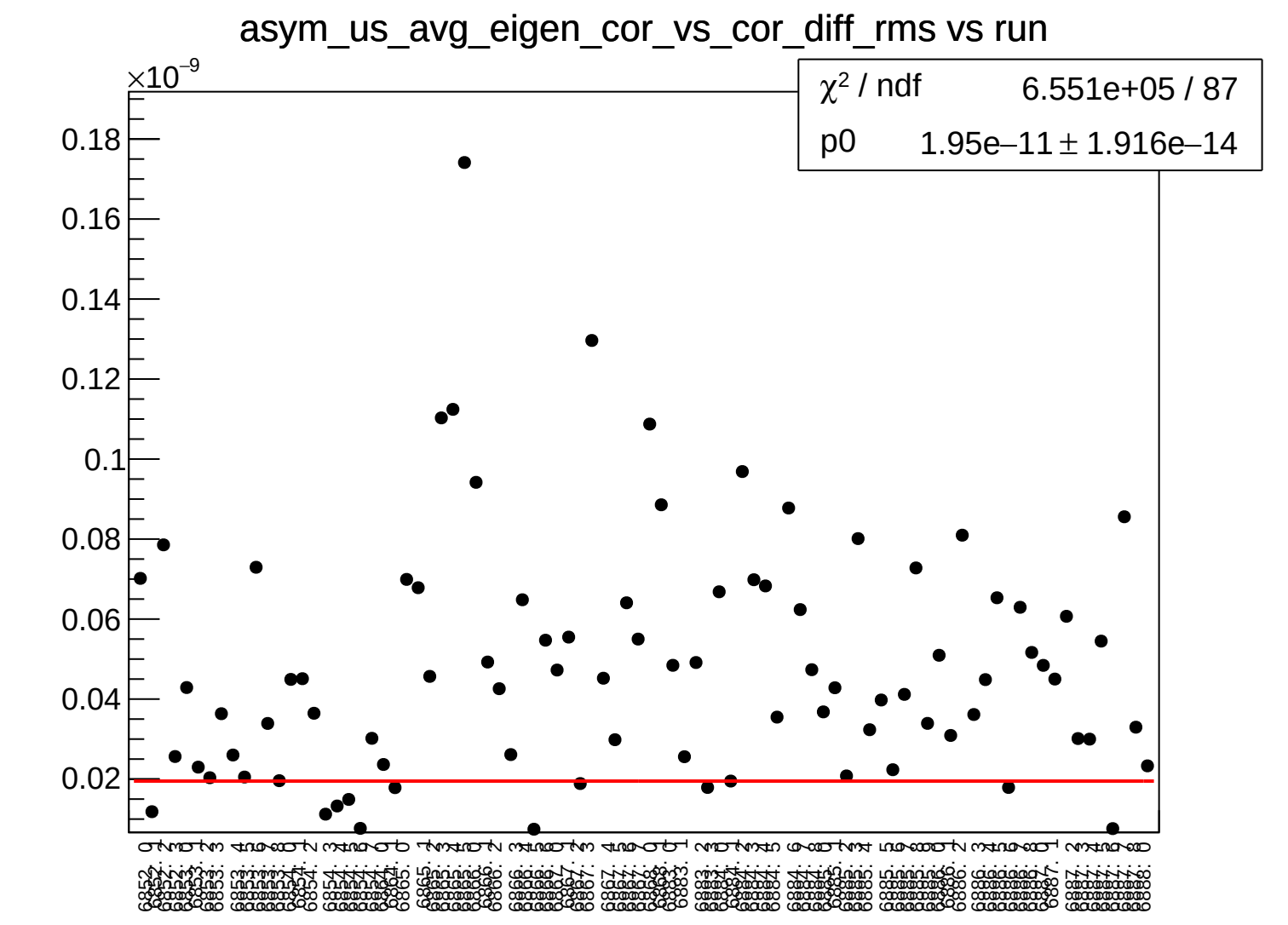

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 74.35 / 87
p0 −0.05323 ± 0.08489
pull
Entries 88
Mean −42.09
Std Dev 0

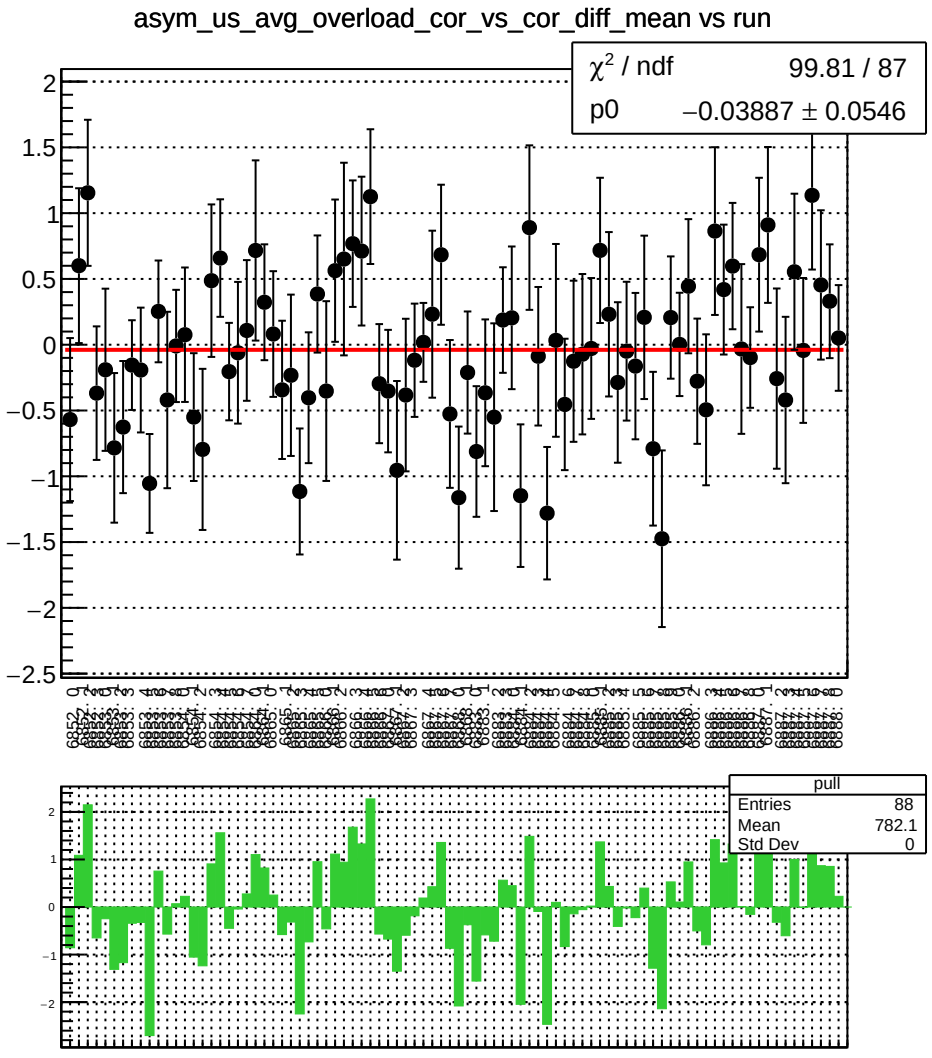

pull1D
Entries 88
Mean 0.04359
Std Dev 0.9181

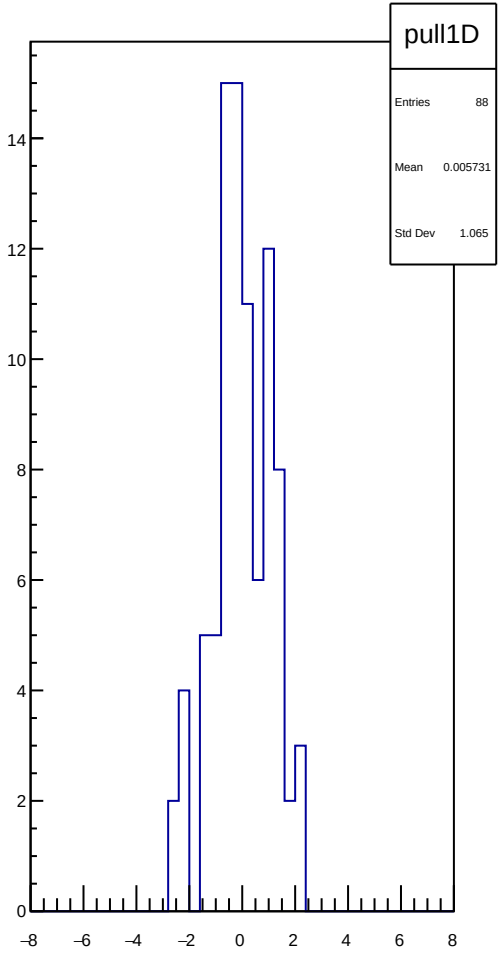

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.672e+04 / 87
p0 77.2 ± 0.06003
140
130
120
110
100
90
80
70
60

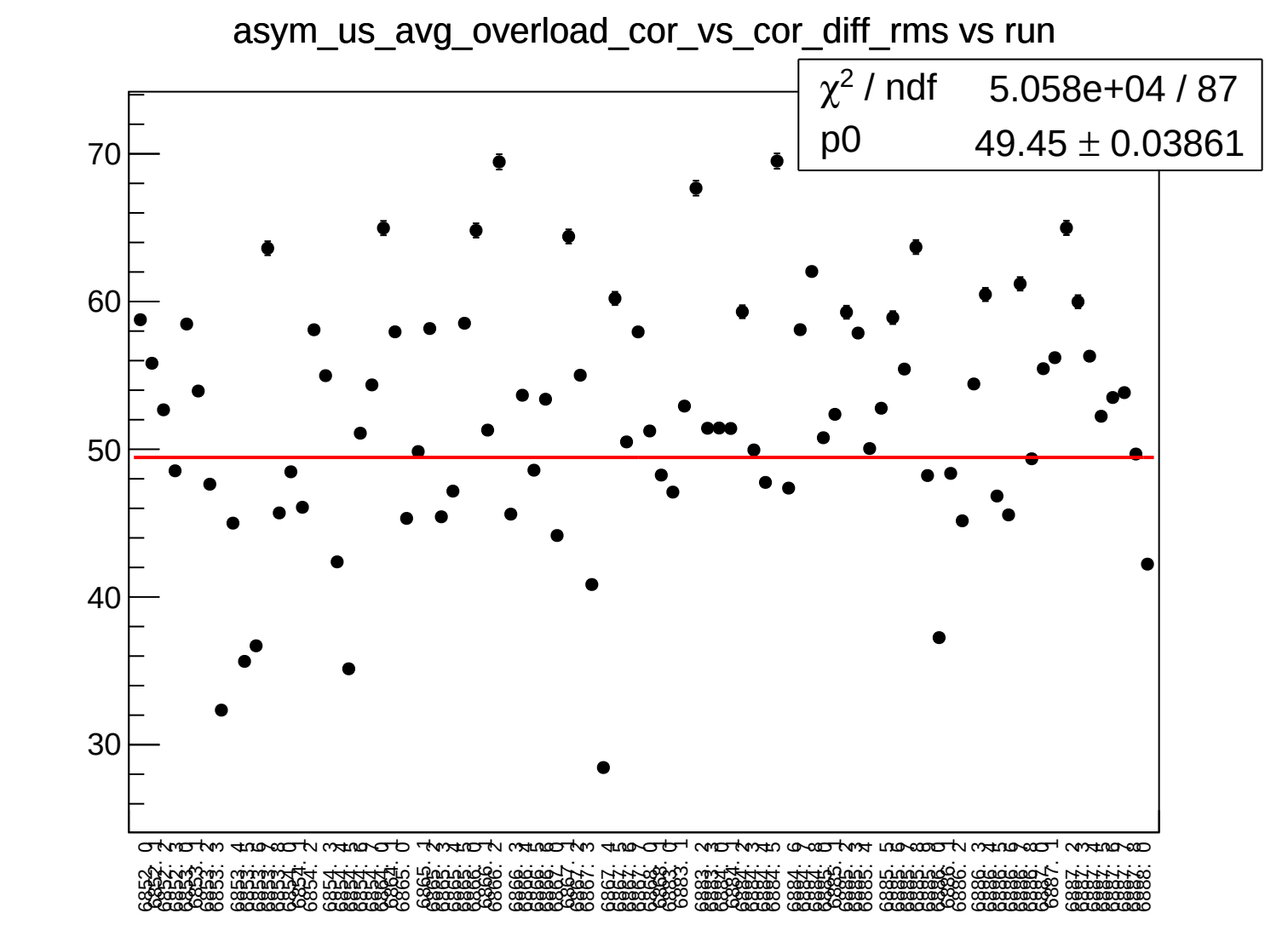

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.2 / 87
p0 3.415e−14 ± 2.709e−14
pull
Entries 88
Mean 26.87
Std Dev 26.63

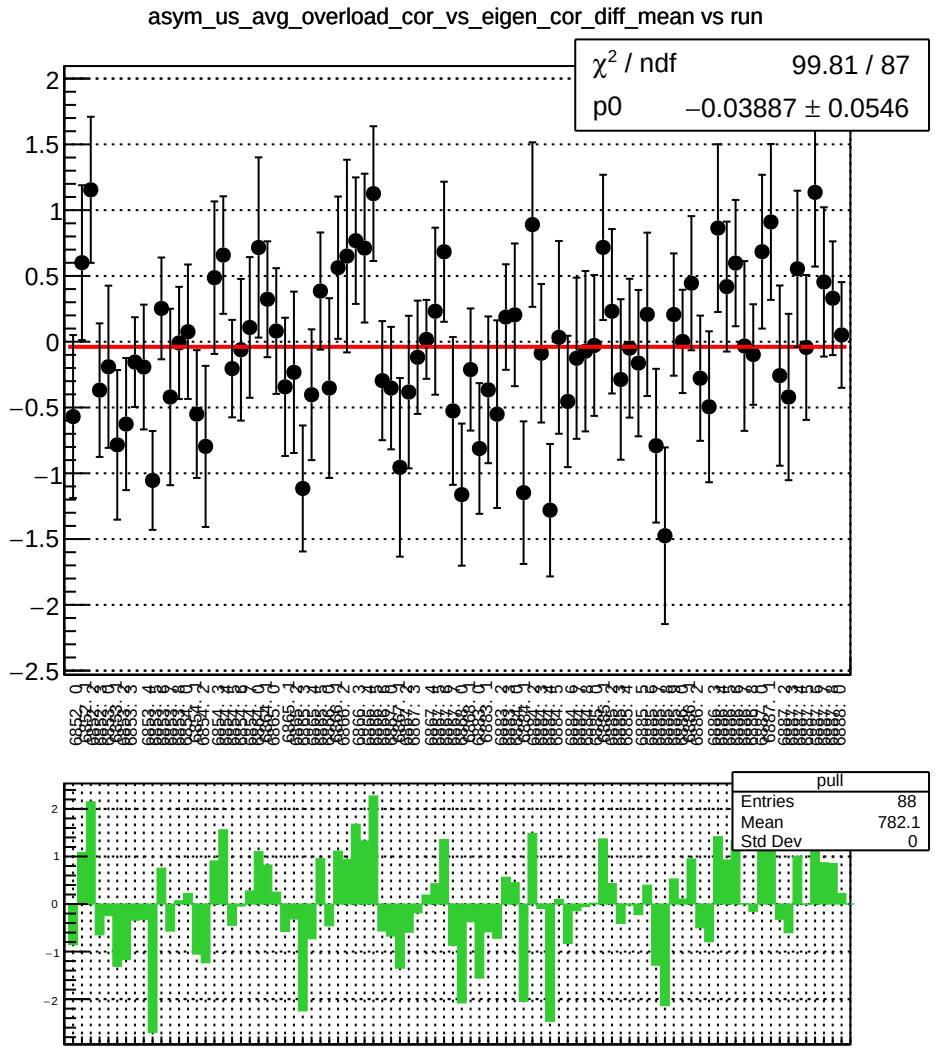

pull1D
Entries 88
Mean −0.09872
Std Dev 0.8748

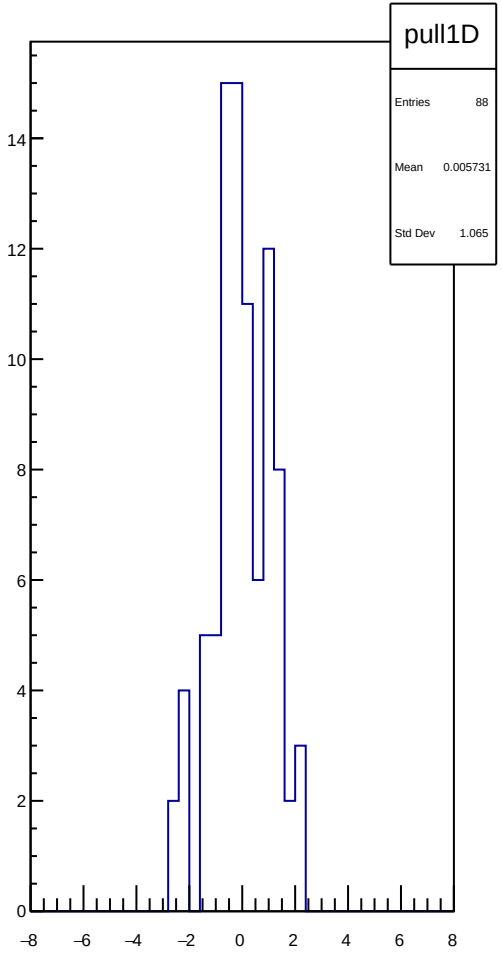

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.551e+05 / 87
p0 1.95e−11 ± 1.916e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

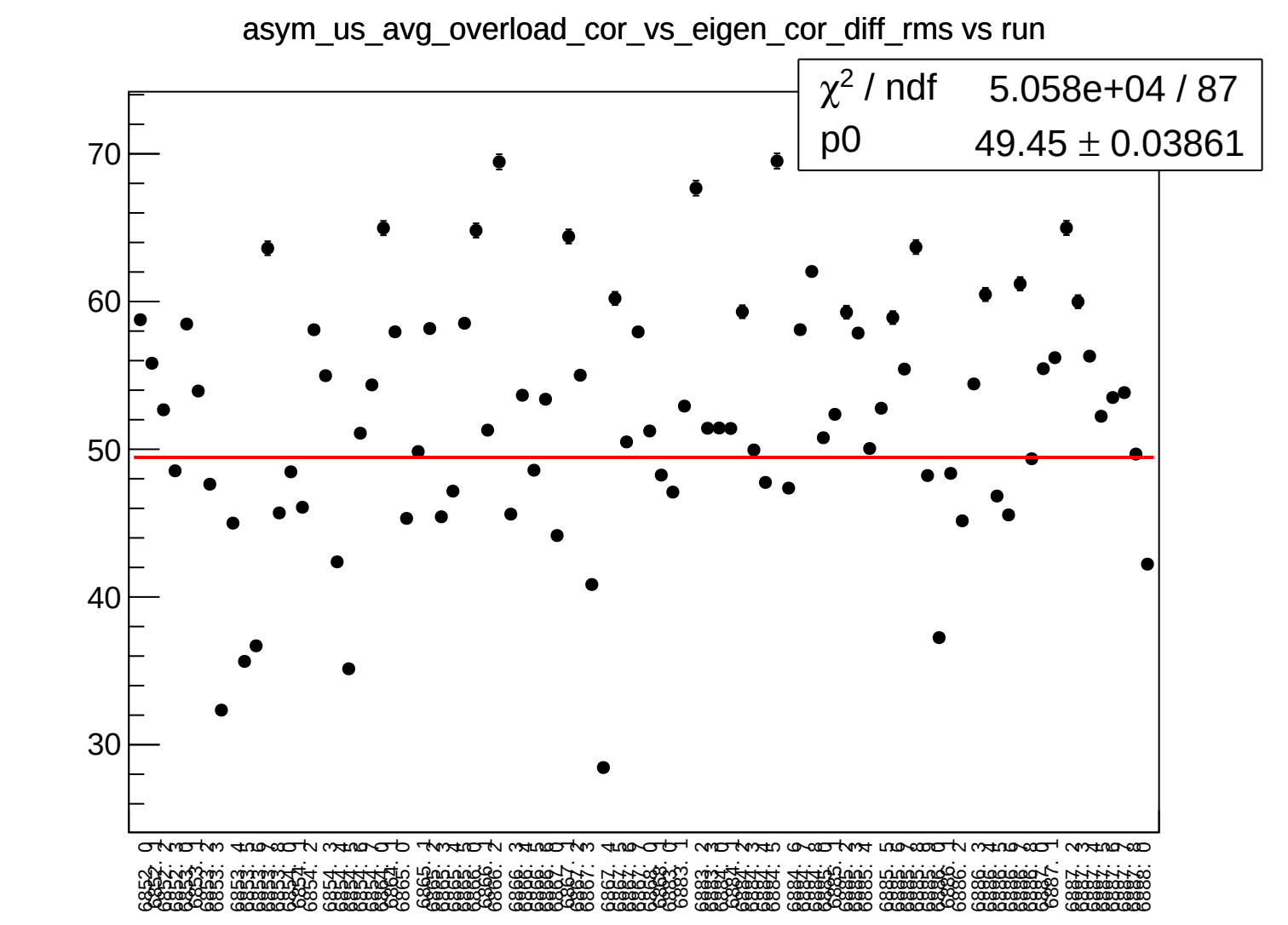

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 99.81 / 87
p0 −0.03887 ± 0.0546
pull
Entries 88
Mean 782.1
Std Dev 0

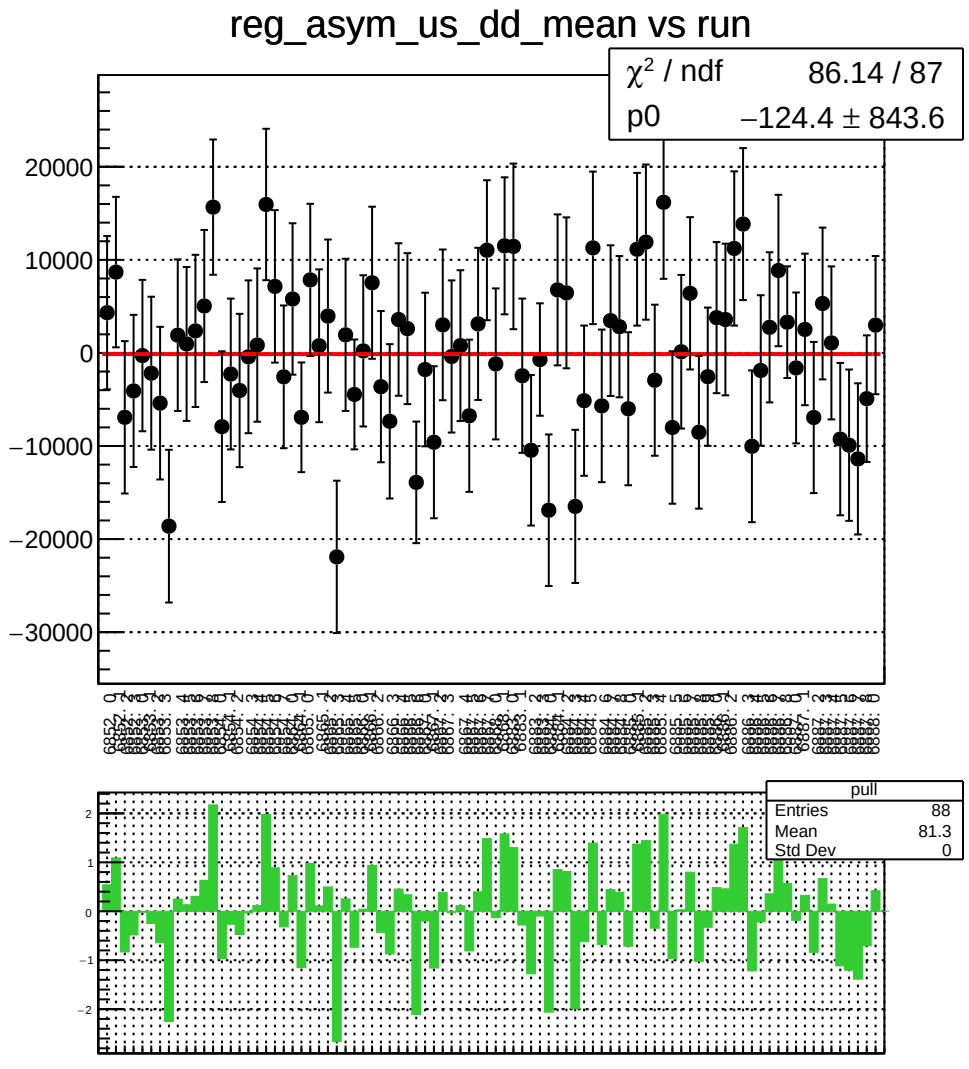

pull1D
Entries 88
Mean 0.005731
Std Dev 1.065

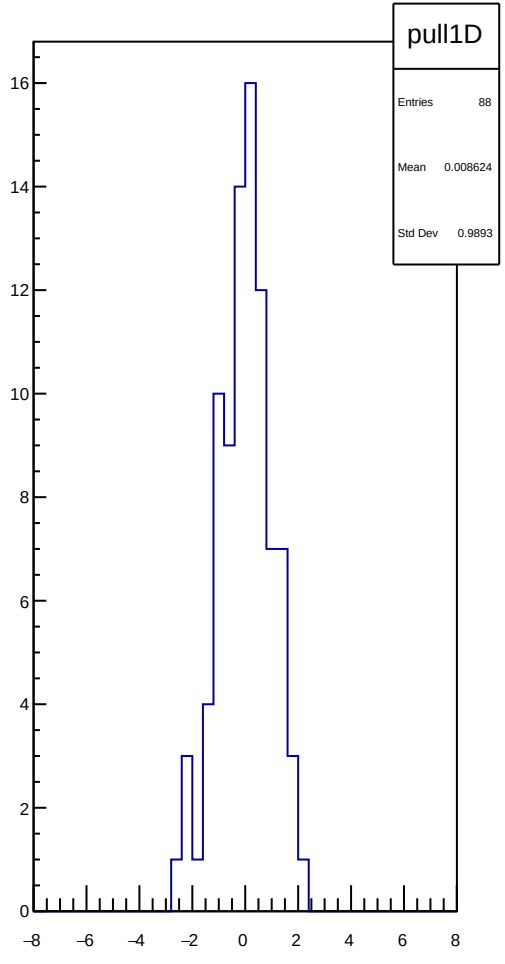

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 5.058e+04 / 87
p0 49.45 ± 0.03861
70
60
50
40
30

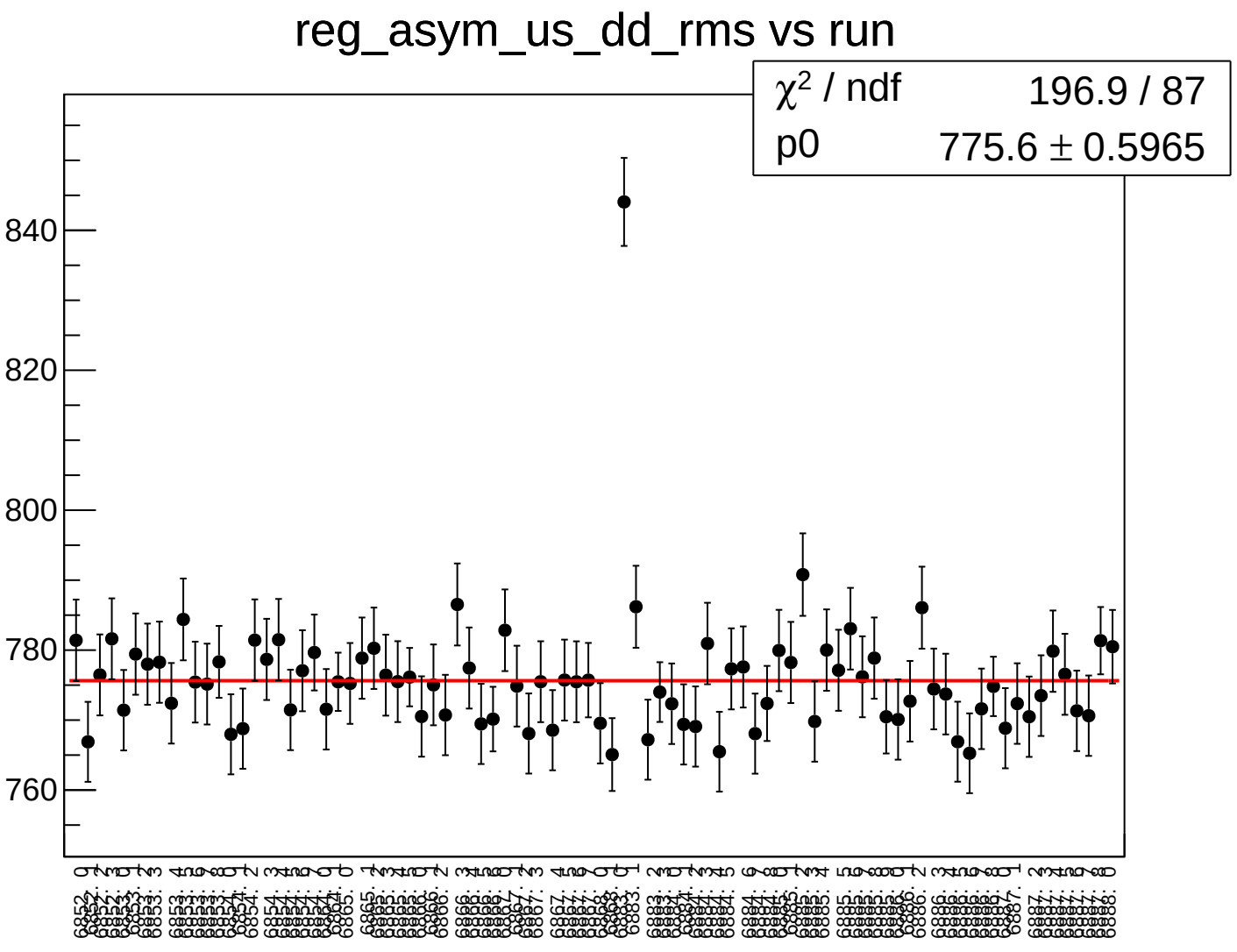

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.81 / 87
p0 −0.03887 ± 0.0546
pull
Entries 88
Mean 782.1
Std Dev 0

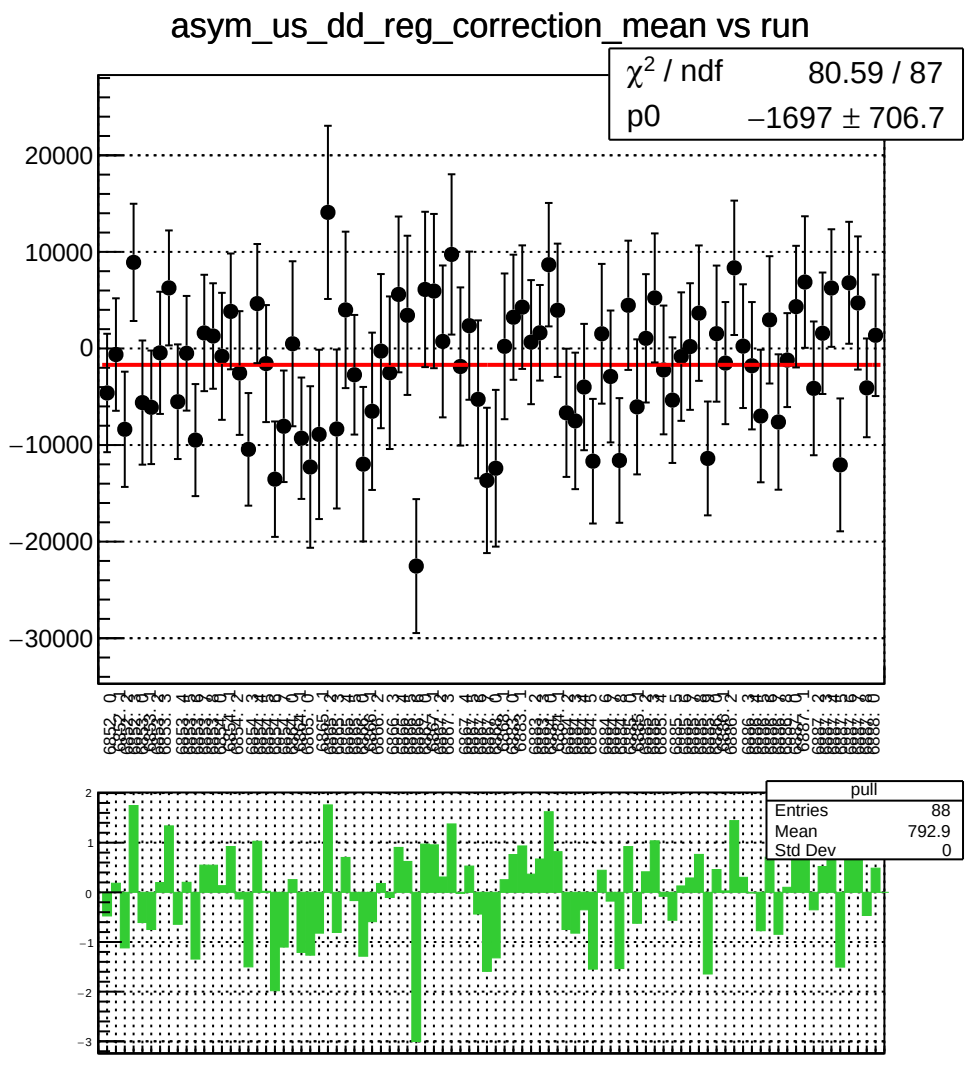

pull1D
Entries 88
Mean 0.005731
Std Dev 1.065

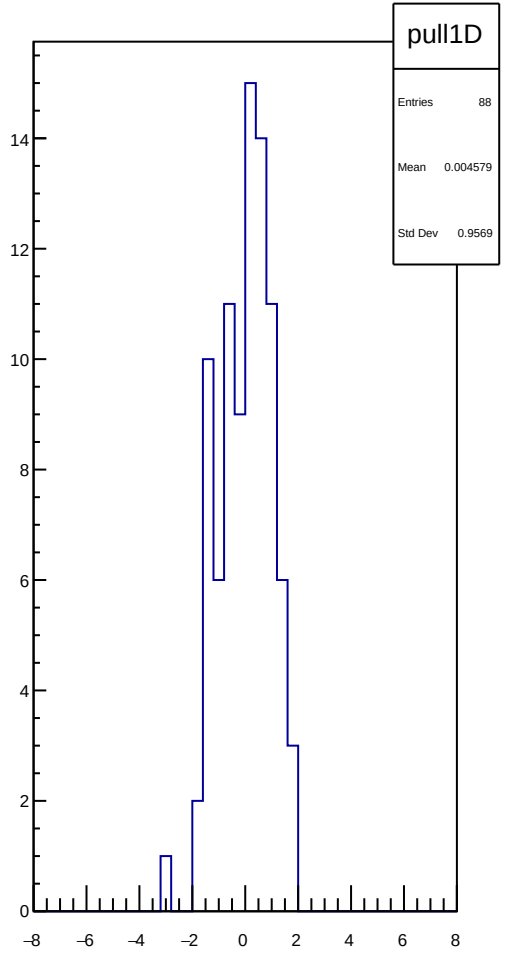

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.058e+04 / 87
p0 49.45 ± 0.03861
70
60
50
40
30

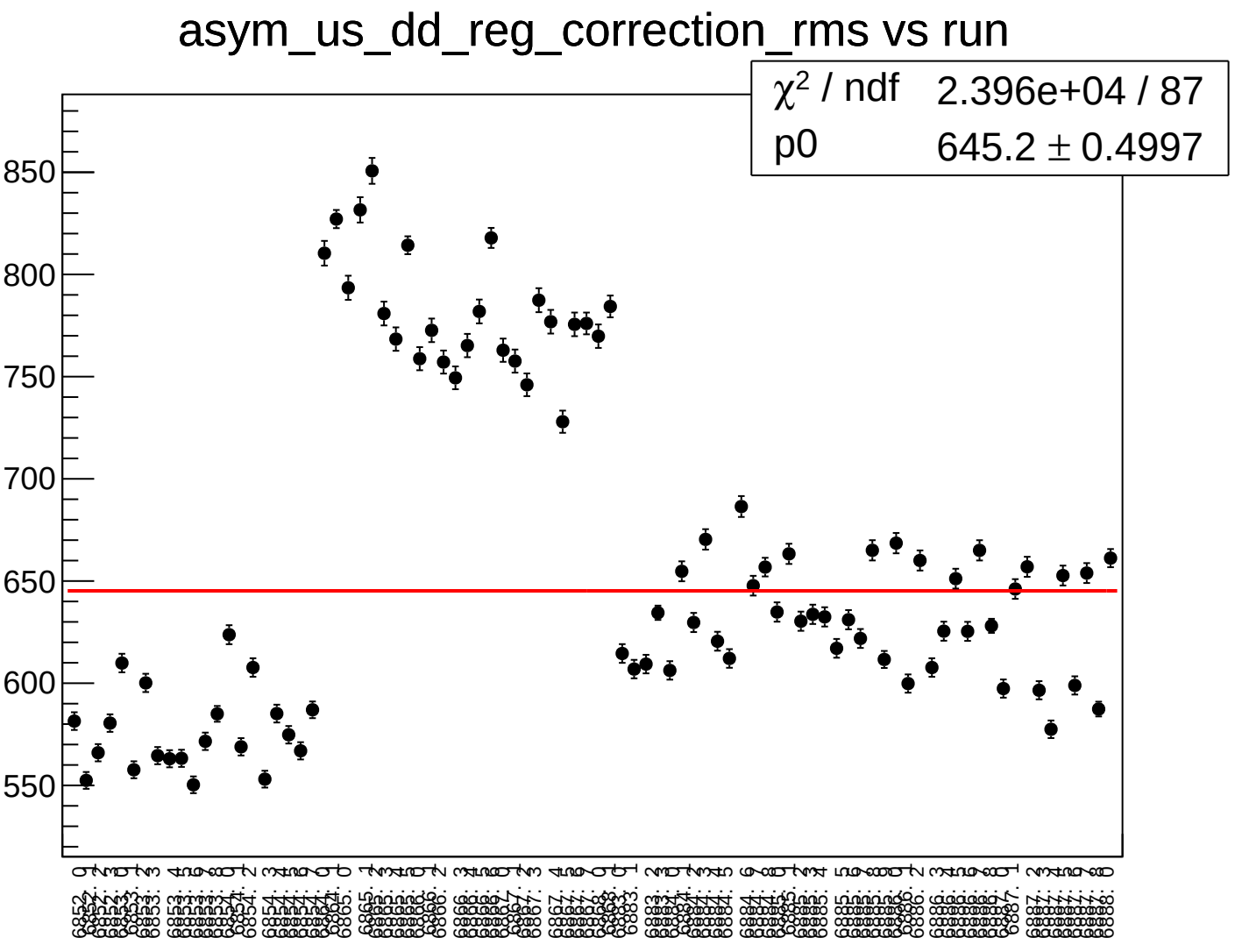

reg_asym_us_dd_mean vs run
χ² / ndf 86.14 / 87
p0 −124.4 ± 843.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 81.3
Std Dev 0
2
1
0
−1
−2

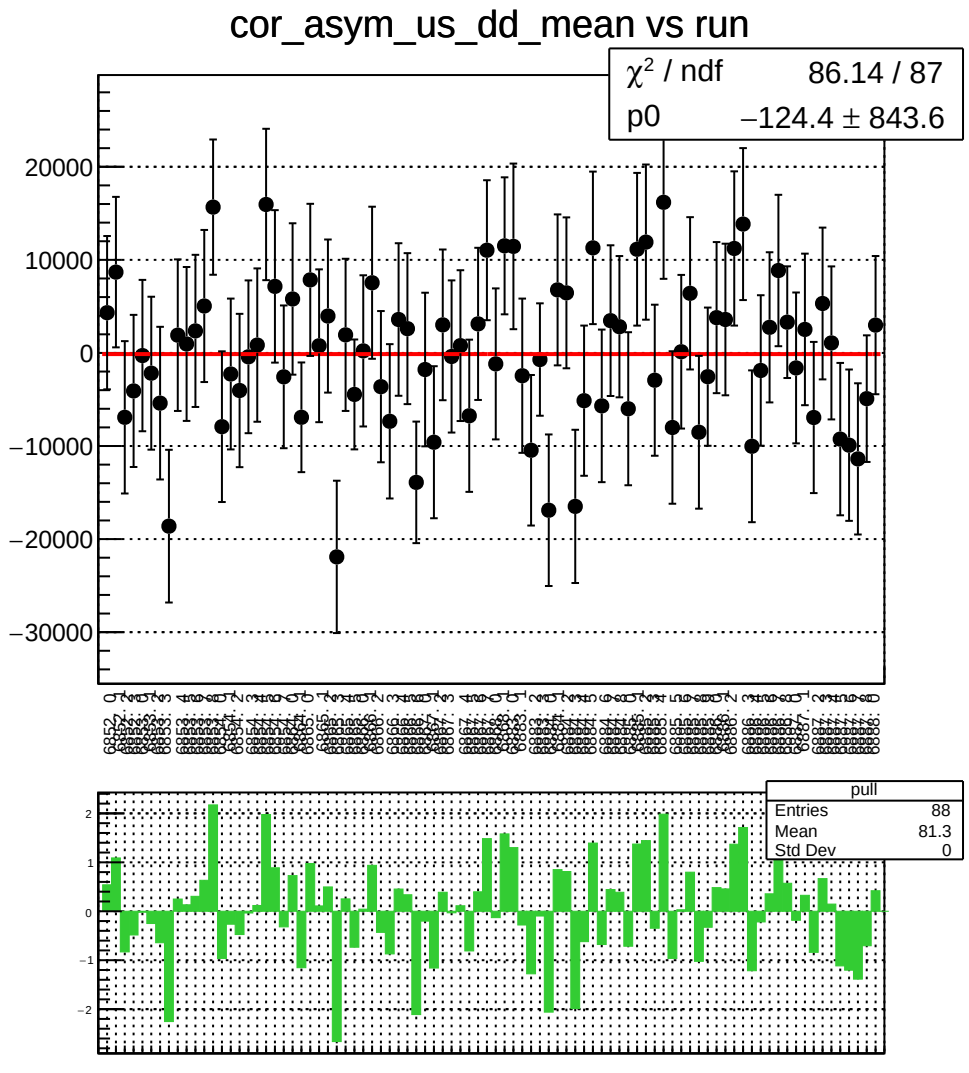

pull1D
Entries 88
Mean 0.008624
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

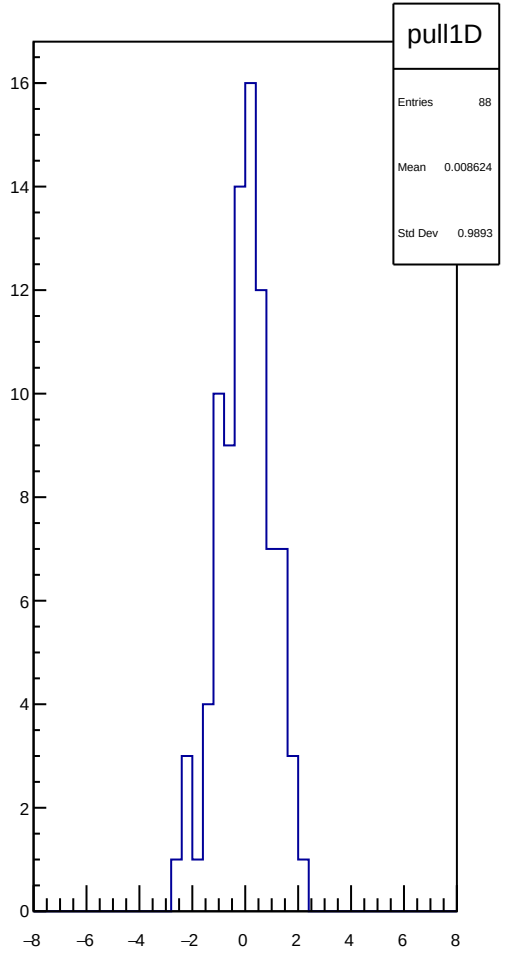

reg_asym_us_dd_rms vs run
χ² / ndf 196.9 / 87
p0 775.6 ± 0.5965
840
820
800
780
760

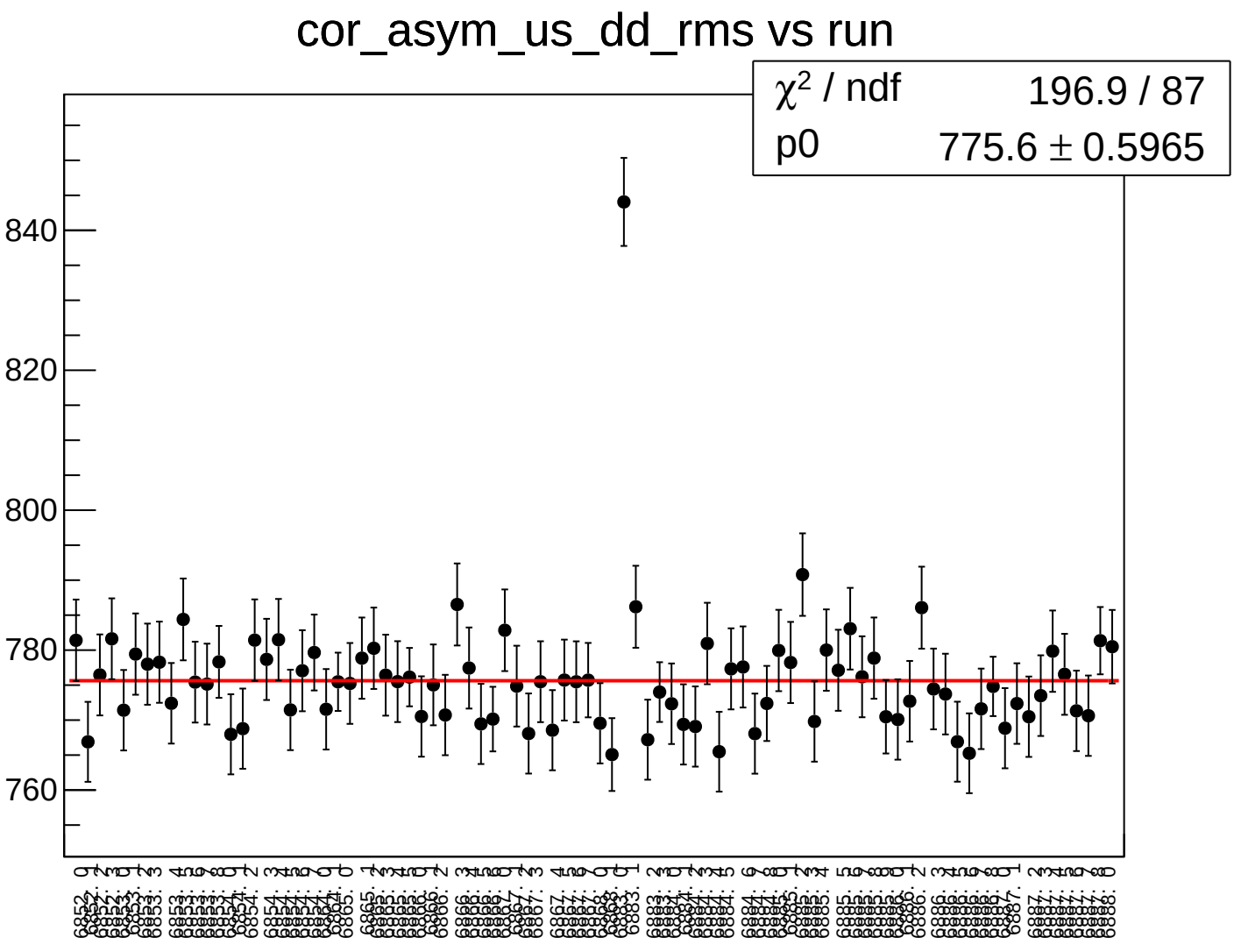

asym_us_dd_reg_correction_mean vs run
χ² / ndf 80.59 / 87
p0 −1697 ± 706.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 792.9
Std Dev 0
2
1
0
−1
−2
−3

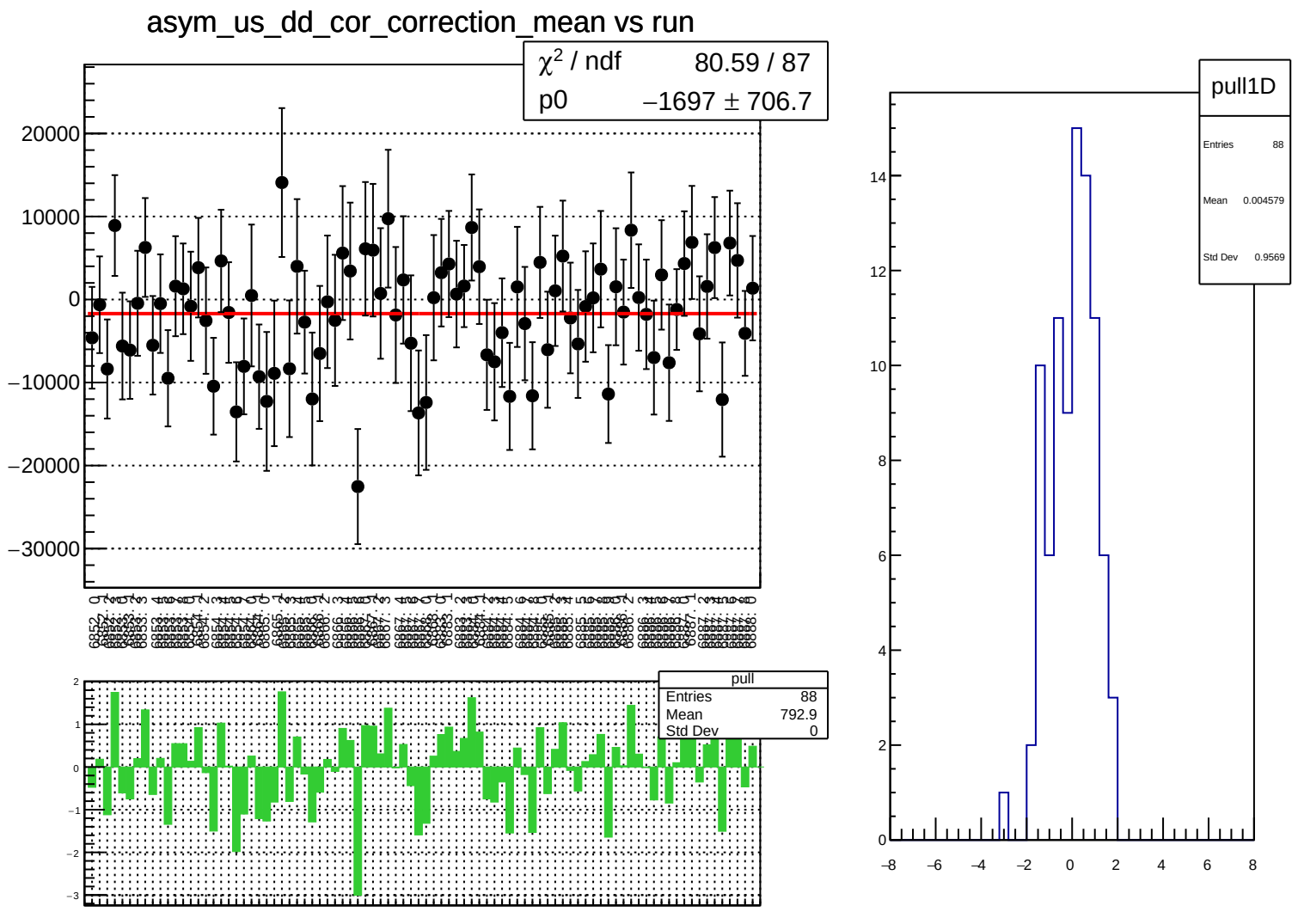

pull1D
Entries 88
Mean 0.004579
Std Dev 0.9569
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

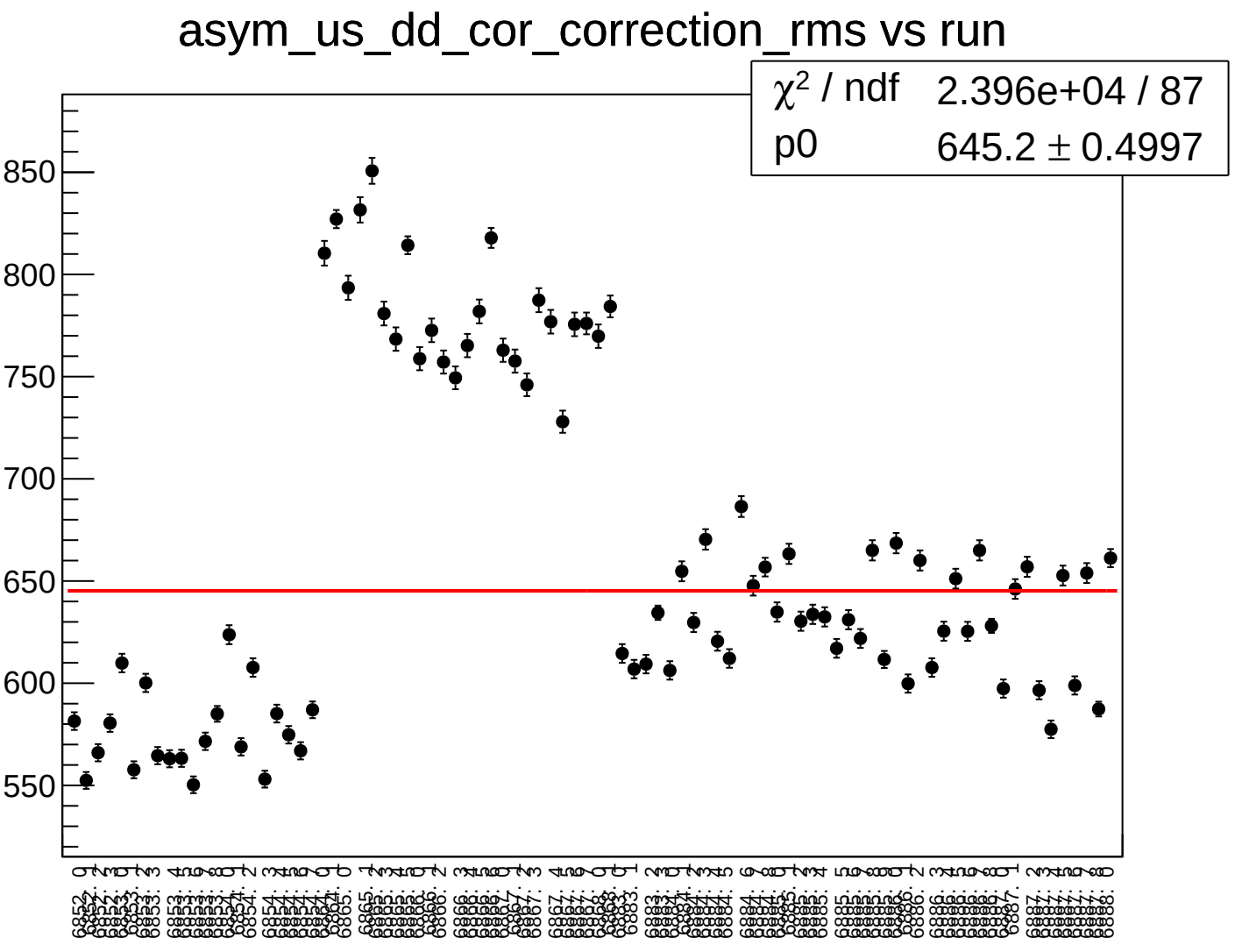

asym_us_dd_reg_correction_rms vs run
χ² / ndf 2.396e+04 / 87
p0 645.2 ± 0.4997
850
800
750
700
650
600
550

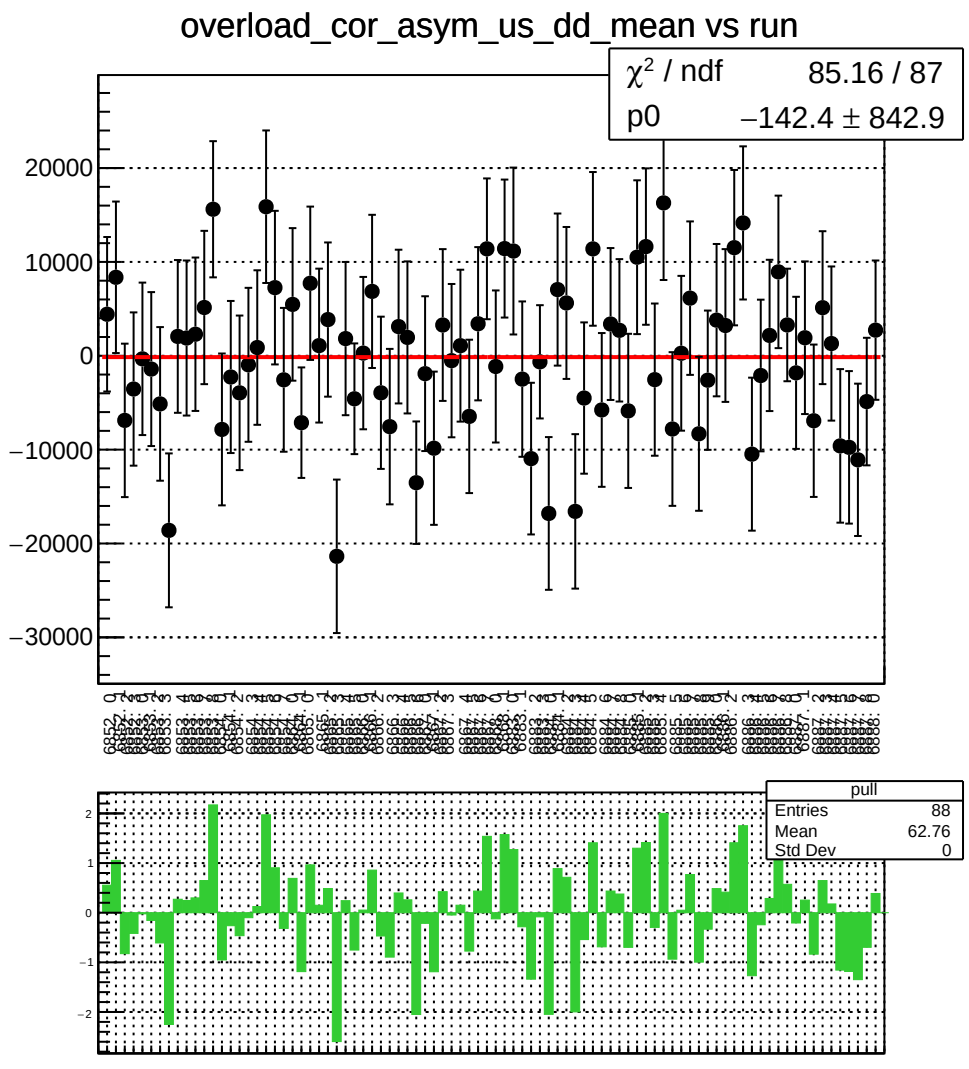

cor_asym_us_dd_mean vs run
χ² / ndf 86.14 / 87
p0 −124.4 ± 843.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 81.3
Std Dev 0
2
1
0
−1
−2

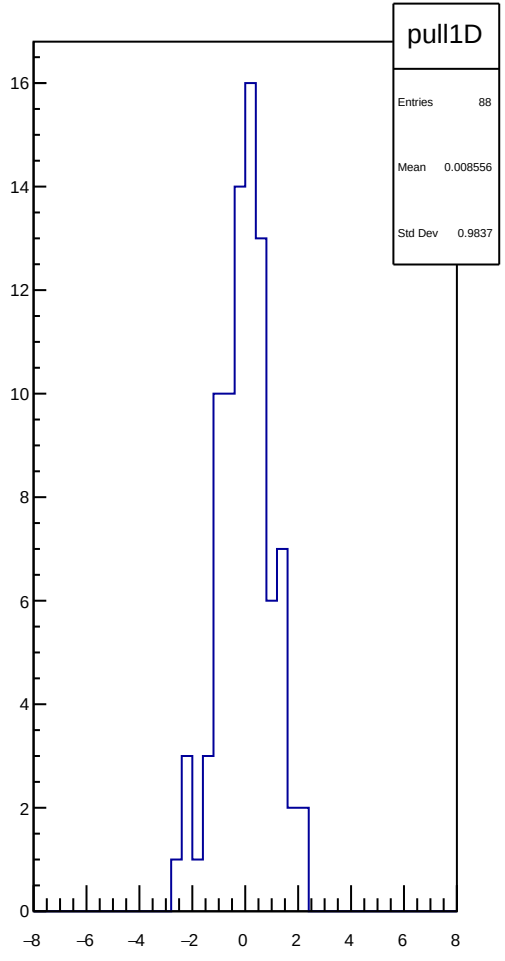

pull1D
Entries 88
Mean 0.008624
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_dd_rms vs run
χ² / ndf 196.9 / 87
p0 775.6 ± 0.5965
840
820
800
780
760


asym_us_dd_cor_correction_mean vs run
χ² / ndf 80.59 / 87
p0 −1697 ± 706.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 792.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.004579
Std Dev 0.9569
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_cor_correction_rms vs run
χ² / ndf 2.396e+04 / 87
p0 645.2 ± 0.4997
850
800
750
700
650
600
550


overload_cor_asym_us_dd_mean vs run
χ² / ndf 85.16 / 87
p0 −142.4 ± 842.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 62.76
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.008556
Std Dev 0.9837
16
14
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10
8
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2
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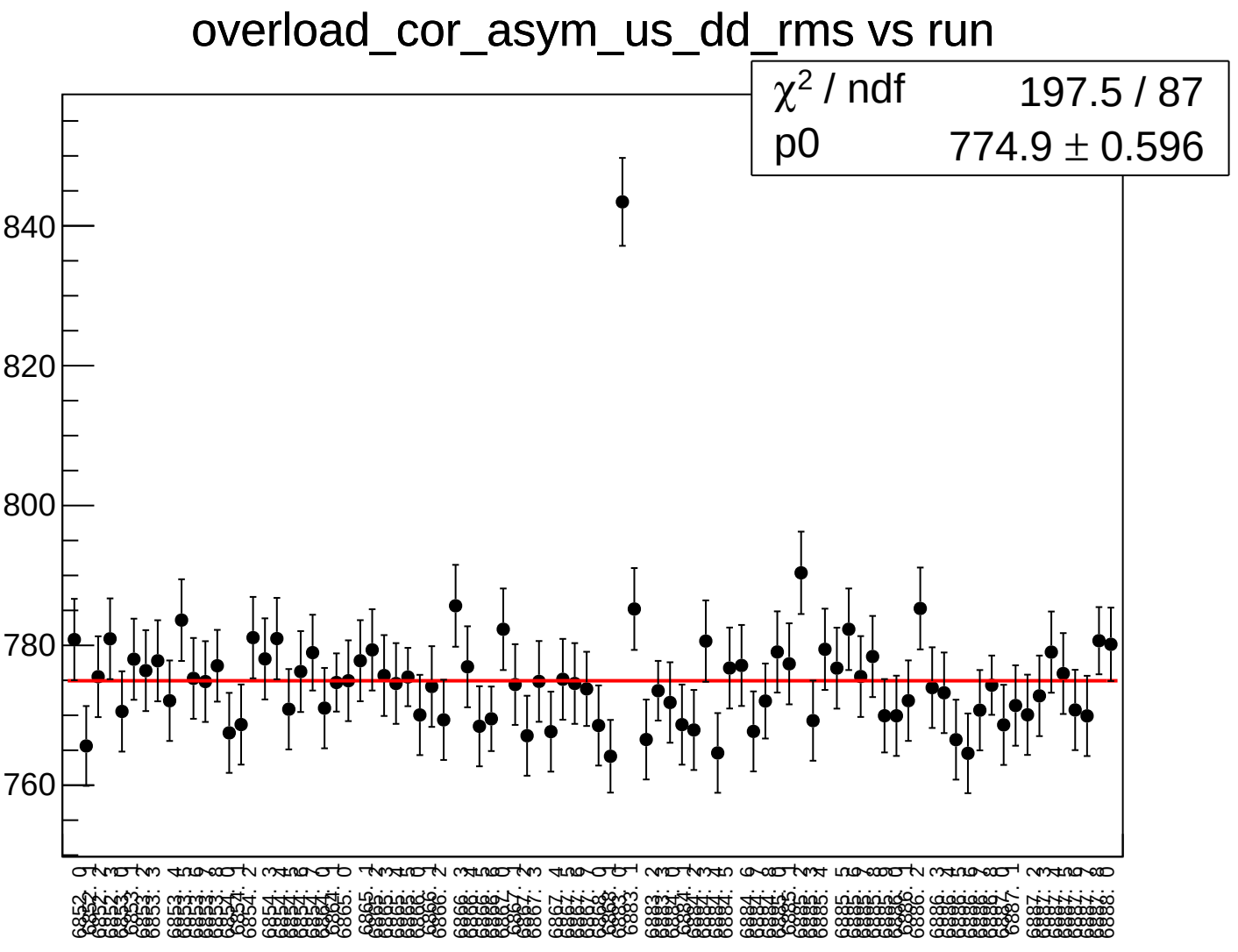
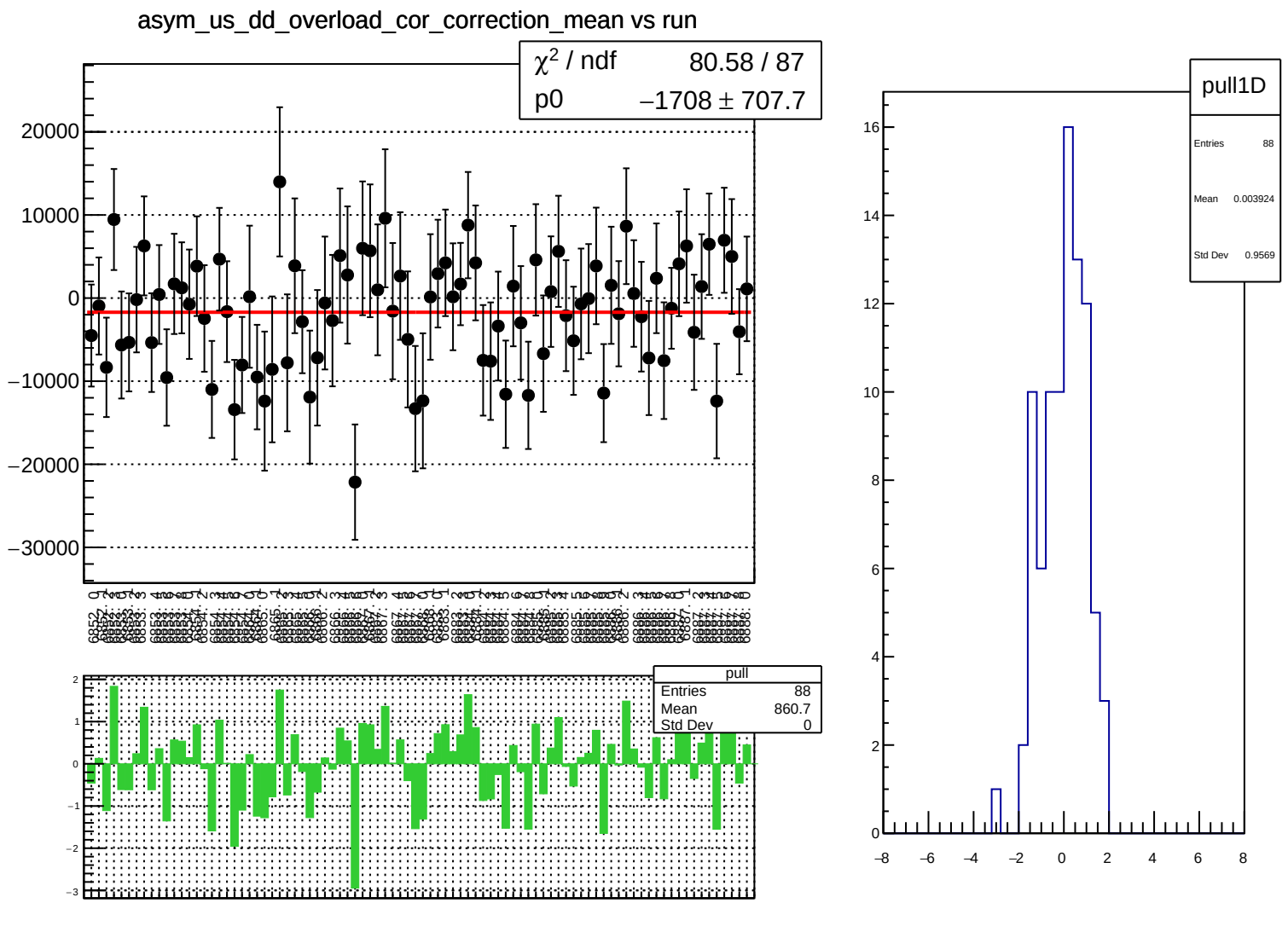
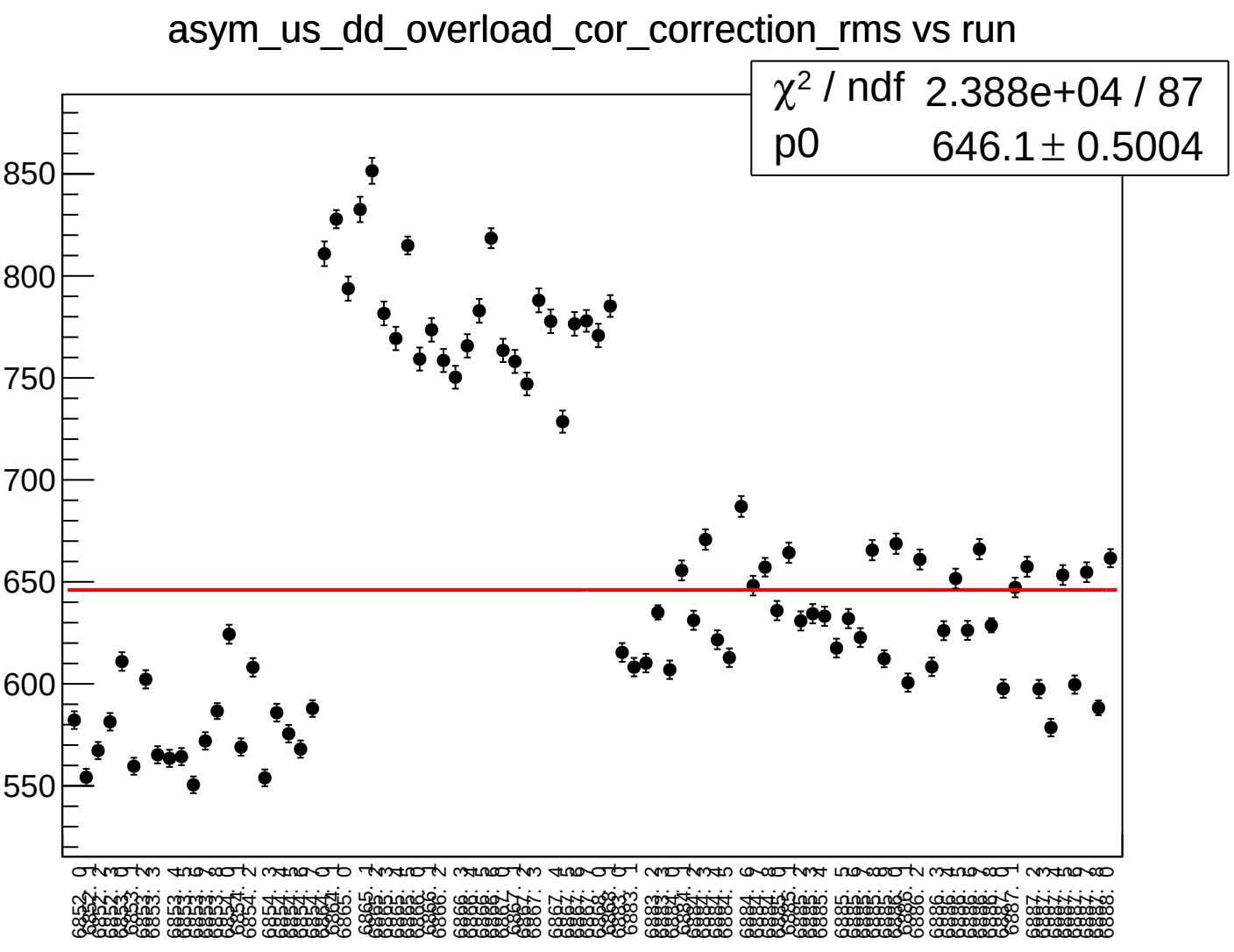
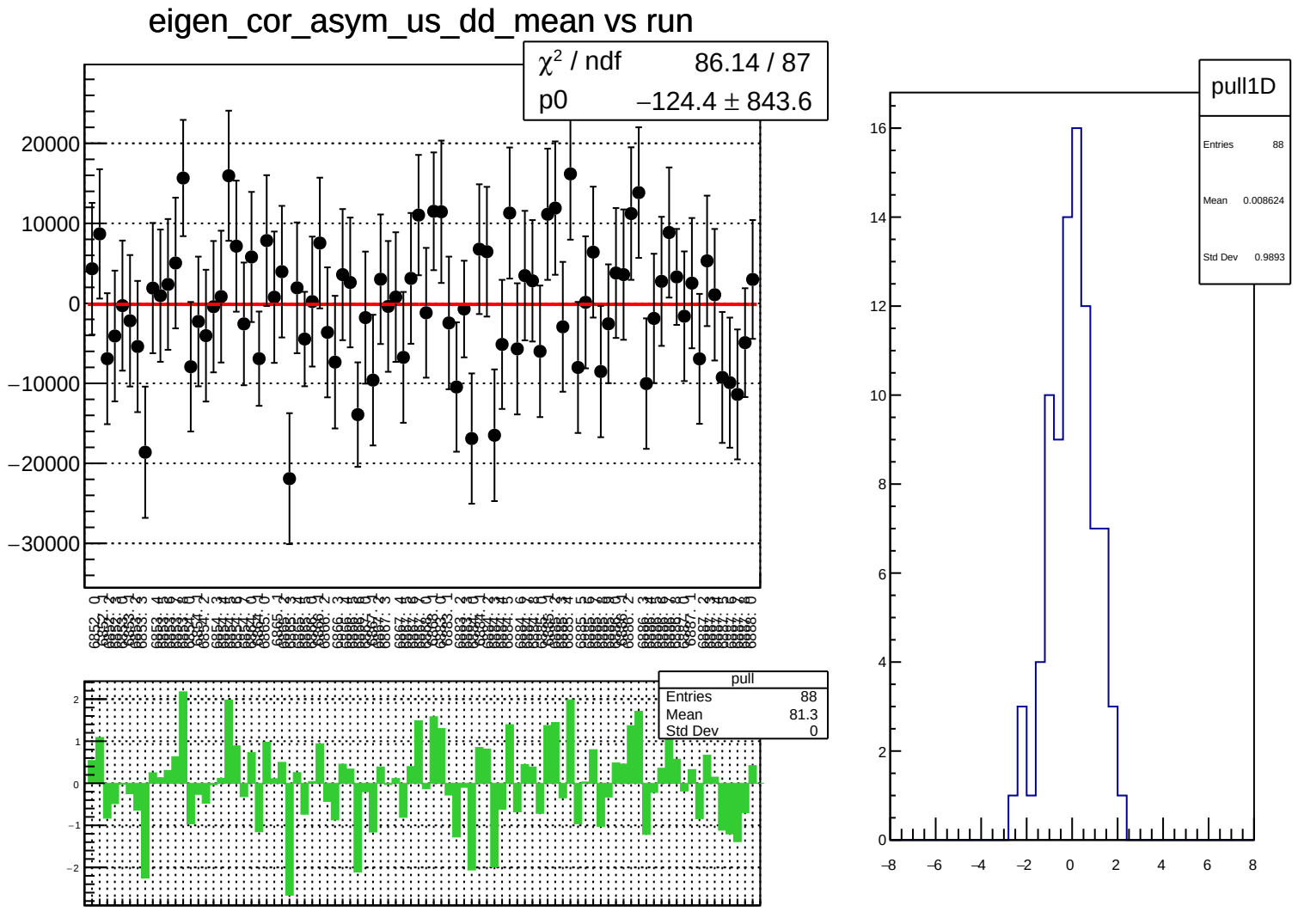
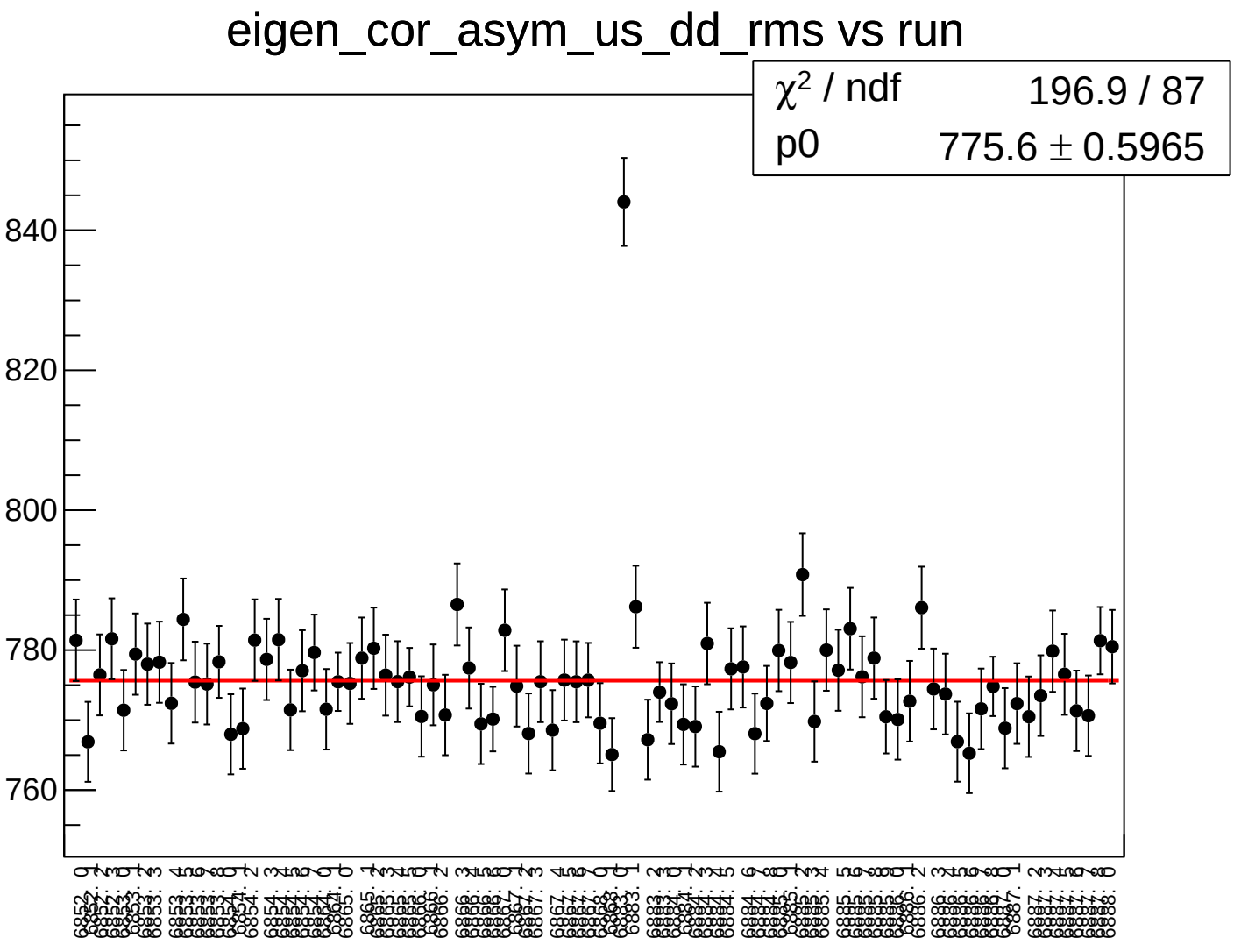
6
8

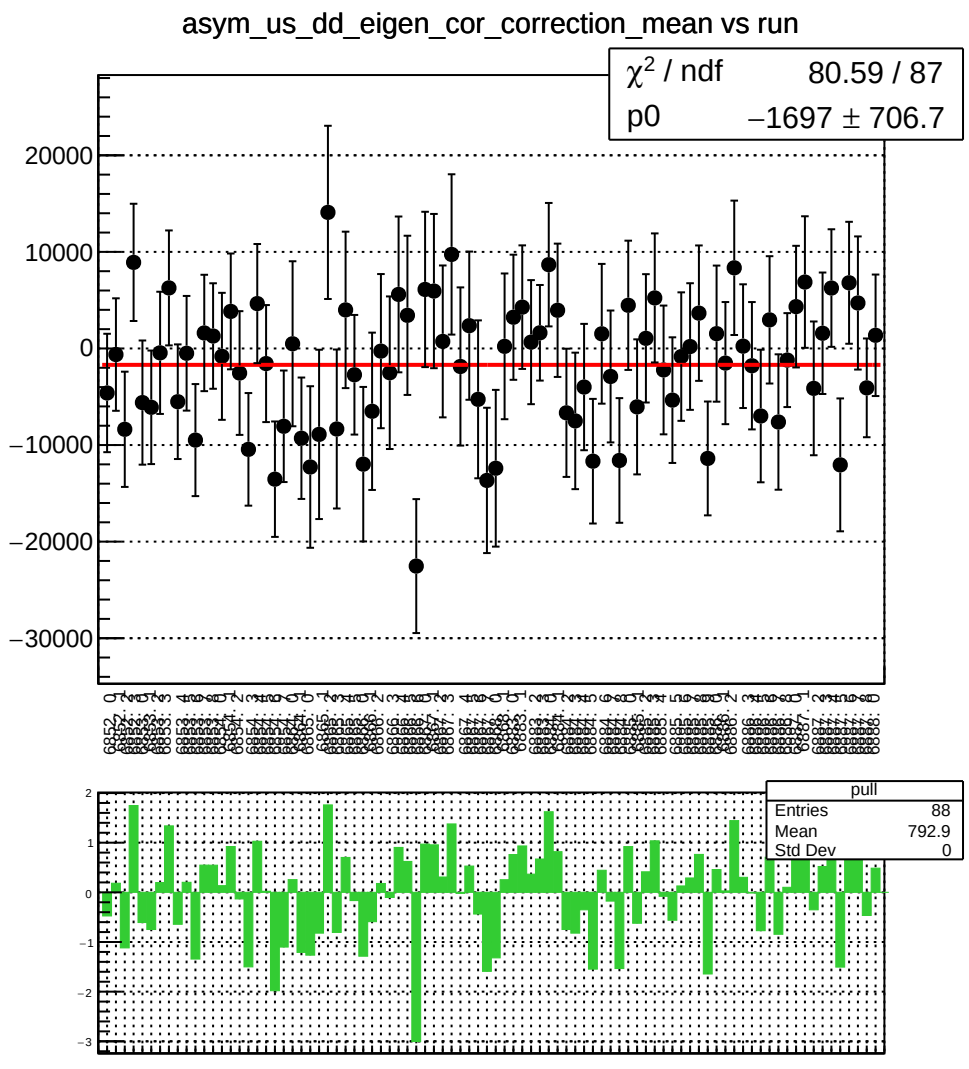

overload_cor_asym_us_dd_rms vs run
χ² / ndf 197.5 / 87
p0 774.9 ± 0.596
840
820
800
780
760

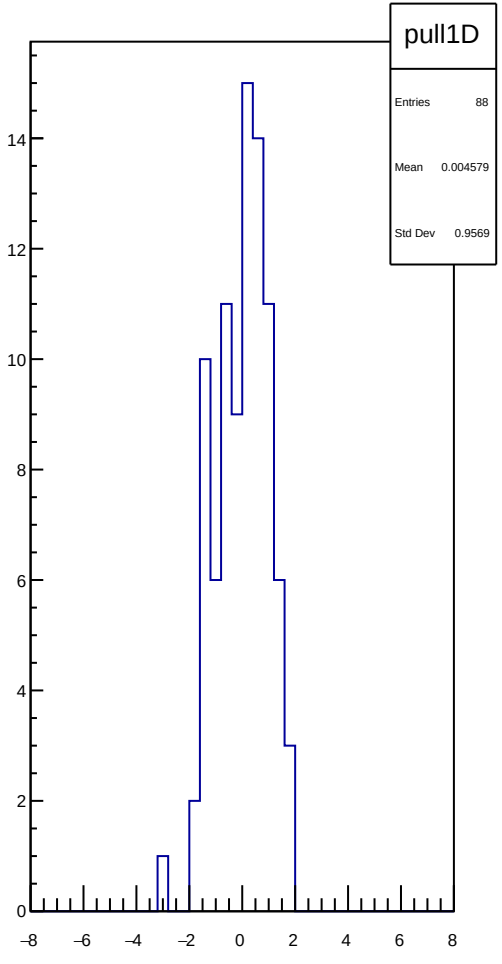

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 80.58 / 87
p0 −1708 ± 707.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 860.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.003924
Std Dev 0.9569
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 2.388e+04 / 87
p0 646.1 ± 0.5004
850
800
750
700
650
600
550


eigen_cor_asym_us_dd_mean vs run
χ² / ndf 86.14 / 87
p0 −124.4 ± 843.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 81.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.008624
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_dd_rms vs run
χ² / ndf 196.9 / 87
p0 775.6 ± 0.5965
840
820
800
780
760


asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.59 / 87
p0 −1697 ± 706.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 792.9
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean 0.004579
Std Dev 0.9569
14
12
10
8
6
4
2
0
−8
−6
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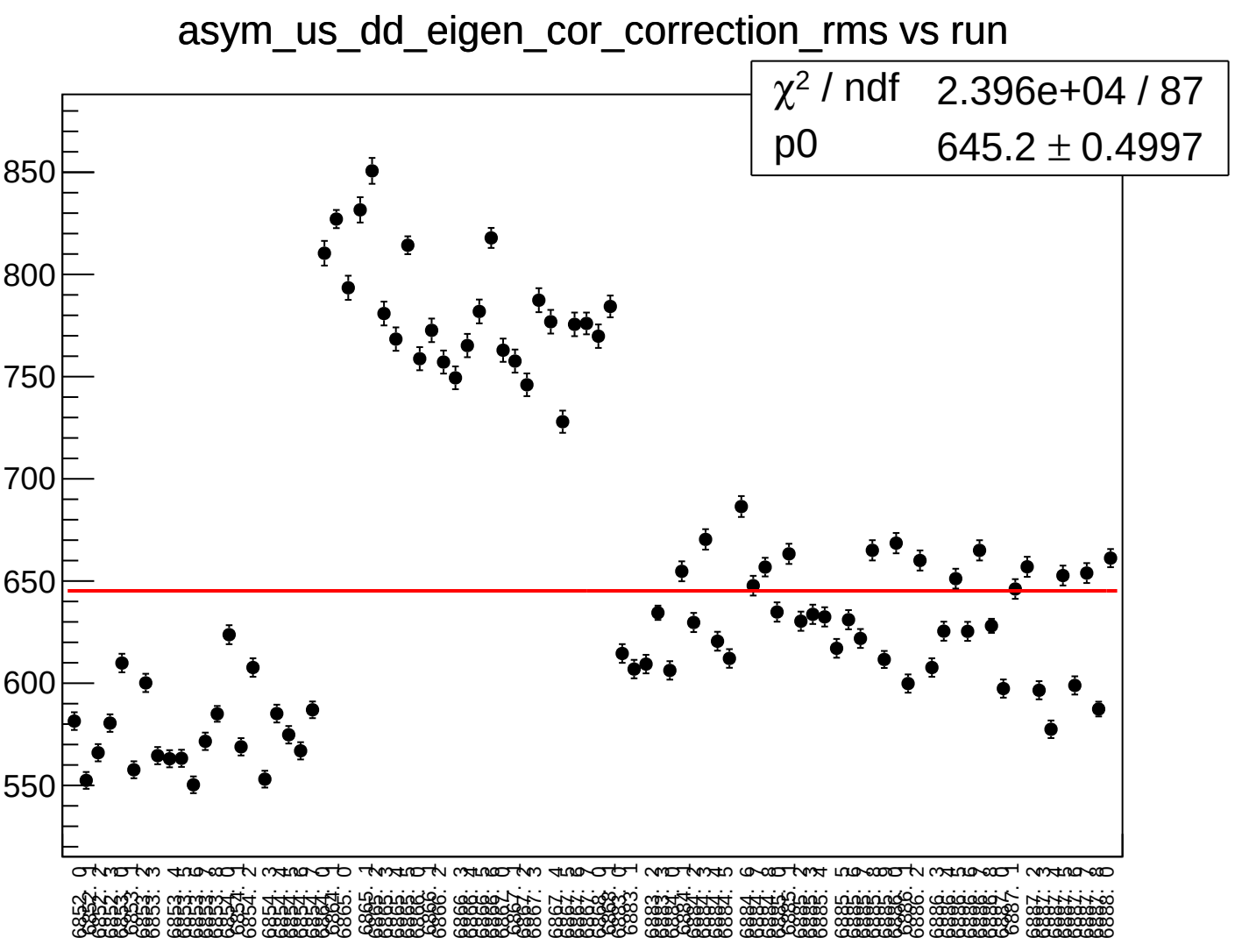
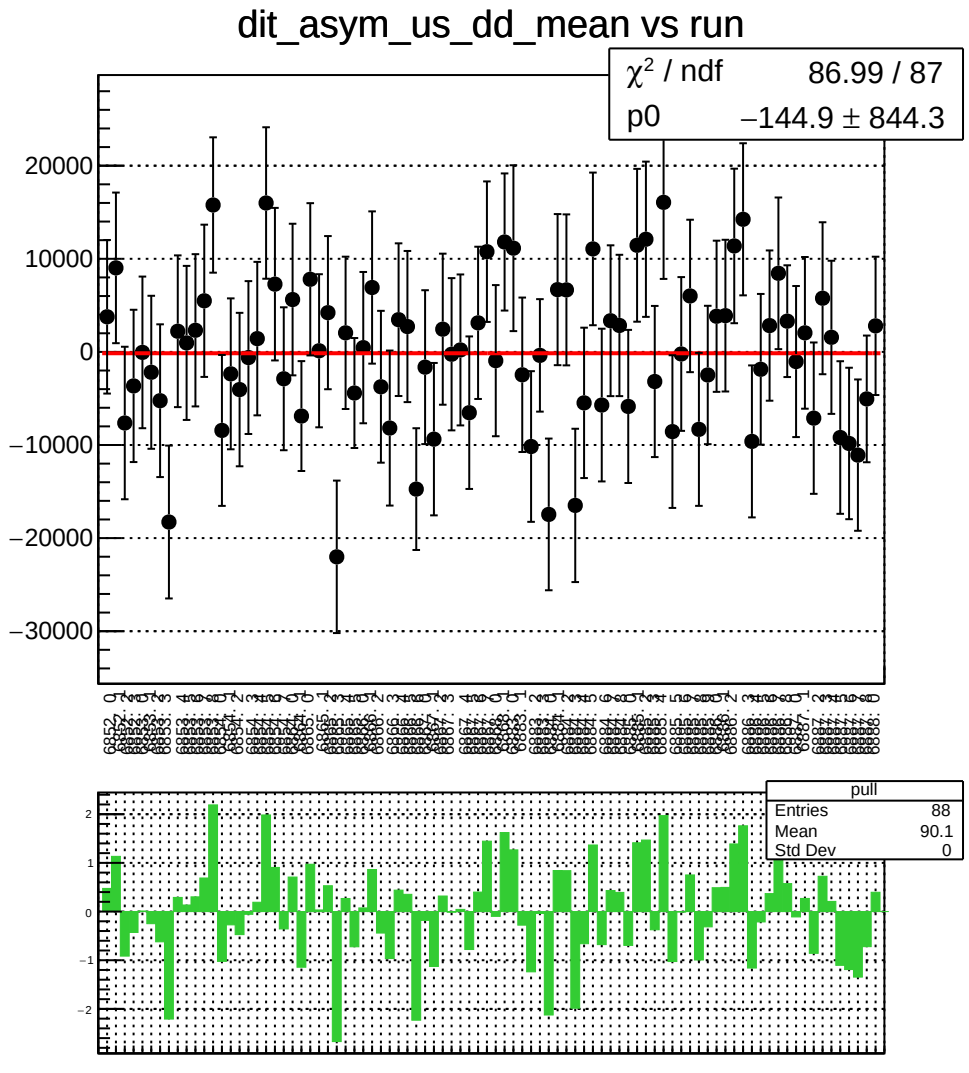
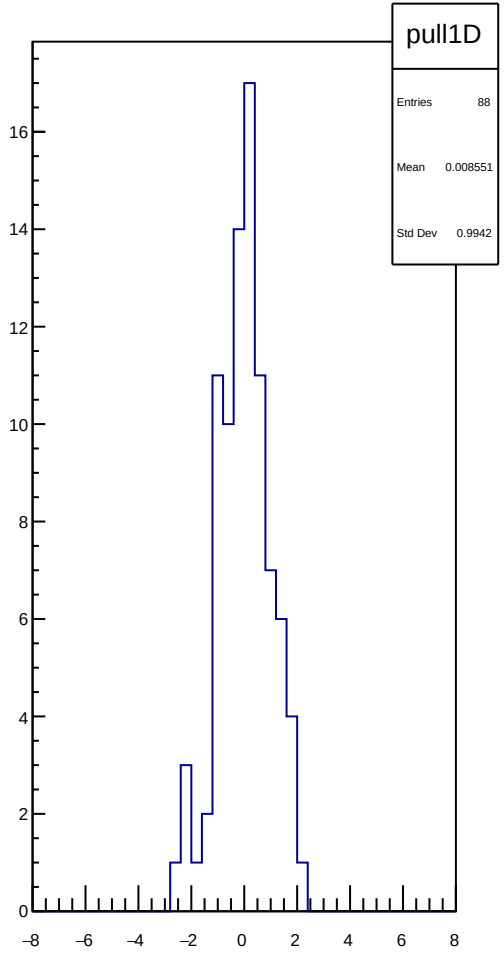
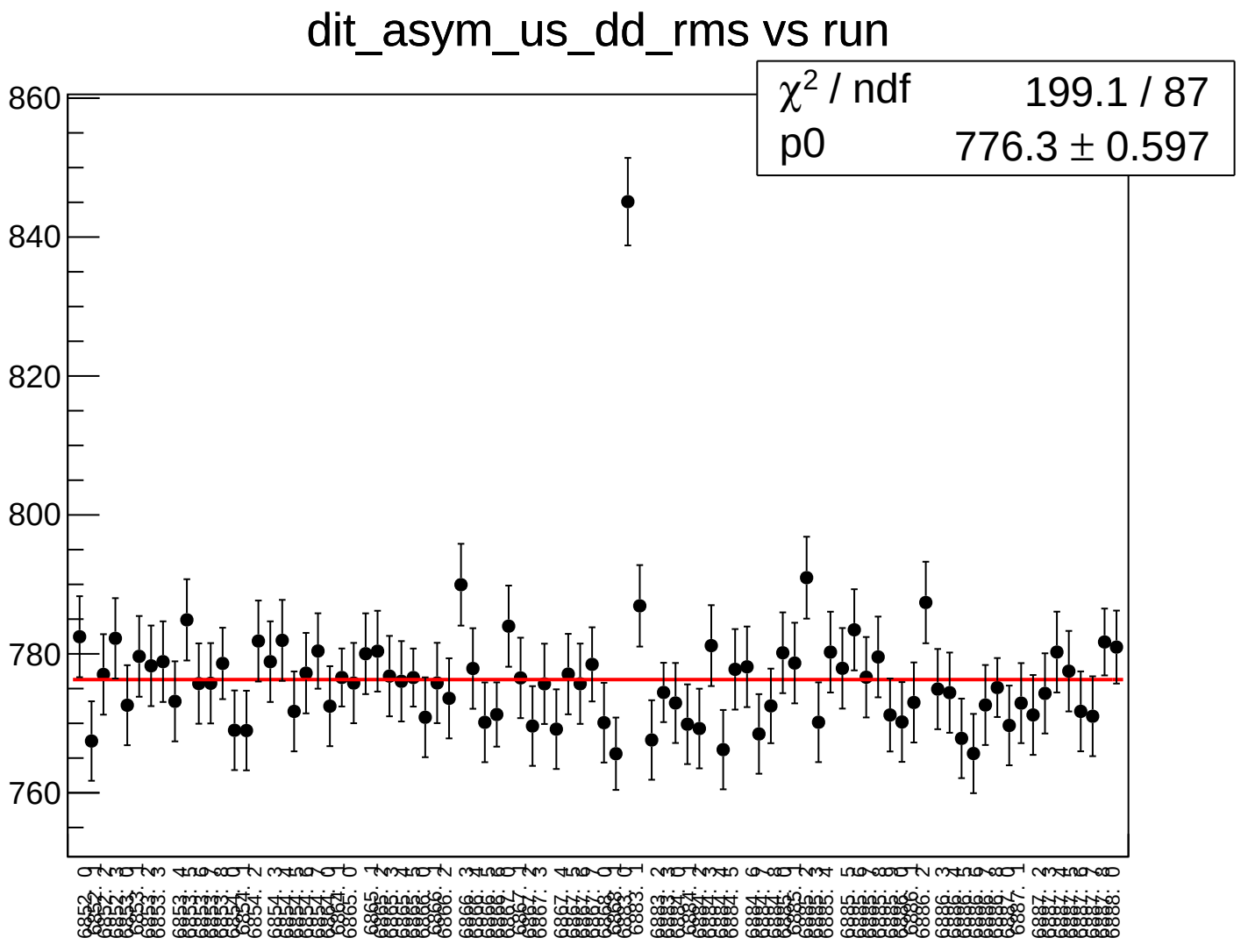
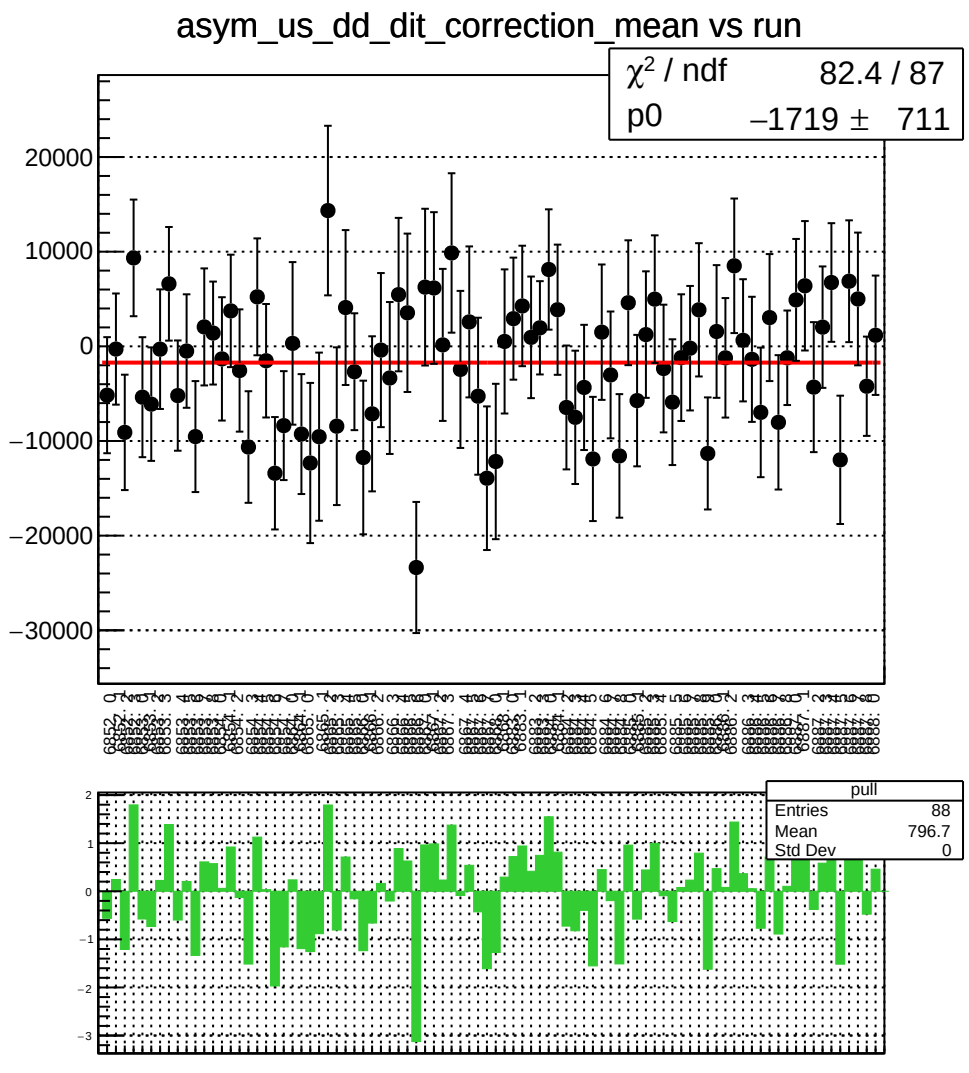
2
4
6
8

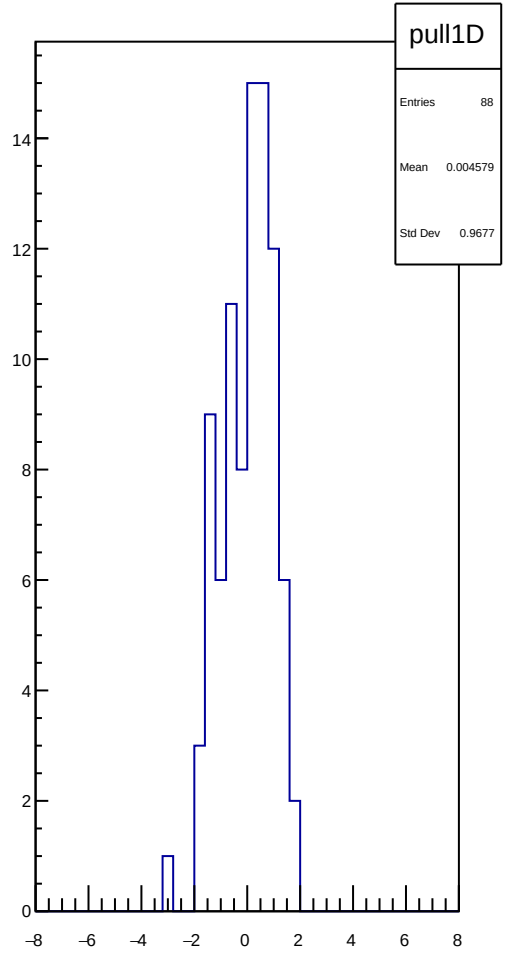

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.396e+04 / 87
p0 645.2 ± 0.4997
850
800
750
700
650
600
550


dit_asym_us_dd_mean vs run
χ² / ndf 86.99 / 87
p0 −144.9 ± 844.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 90.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.008551
Std Dev 0.9942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_dd_rms vs run
χ² / ndf 199.1 / 87
p0 776.3 ± 0.597
860
840
820
800
780
760


asym_us_dd_dit_correction_mean vs run
χ² / ndf 82.4 / 87
p0 −1719 ± 711
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 796.7
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean 0.004579
Std Dev 0.9677
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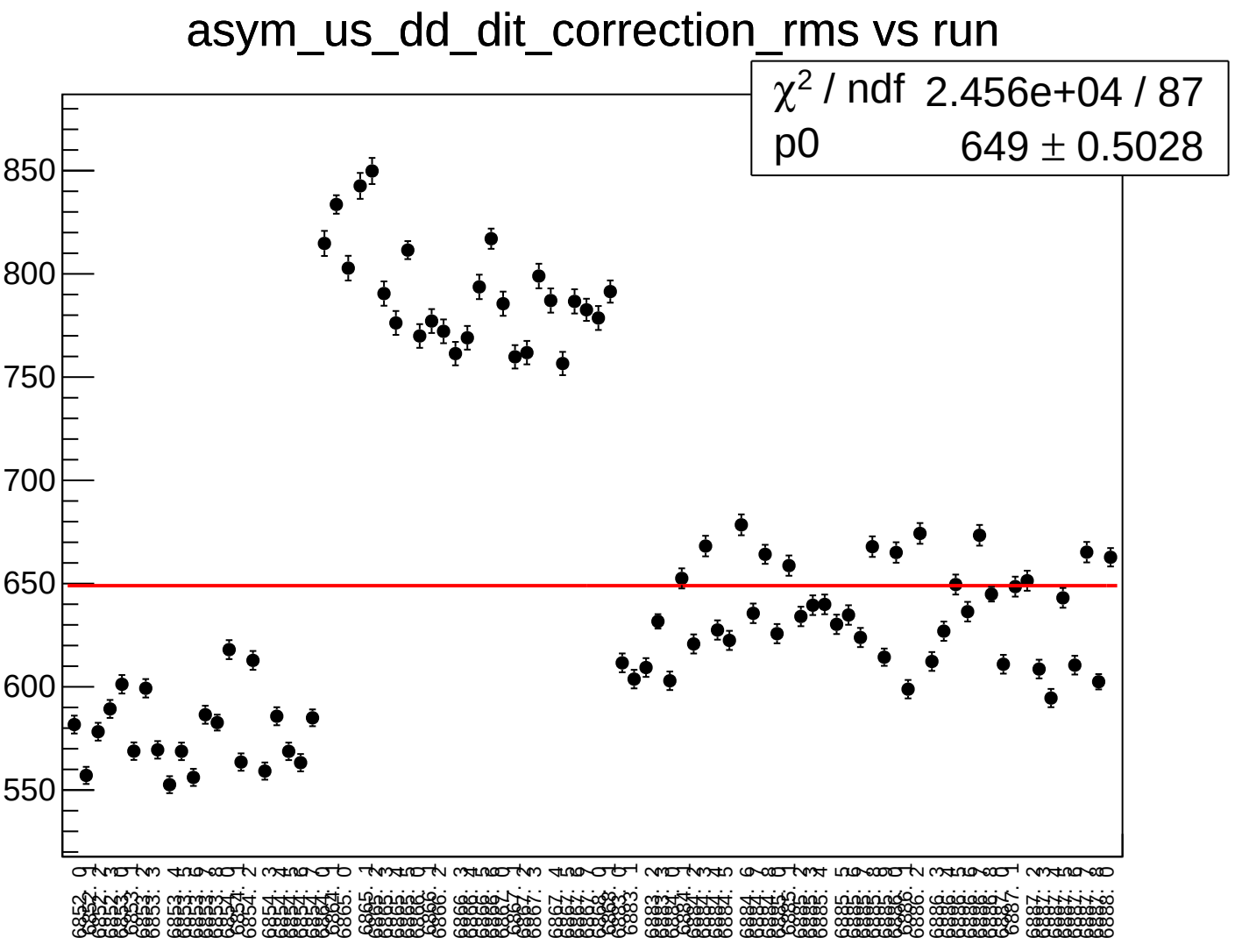
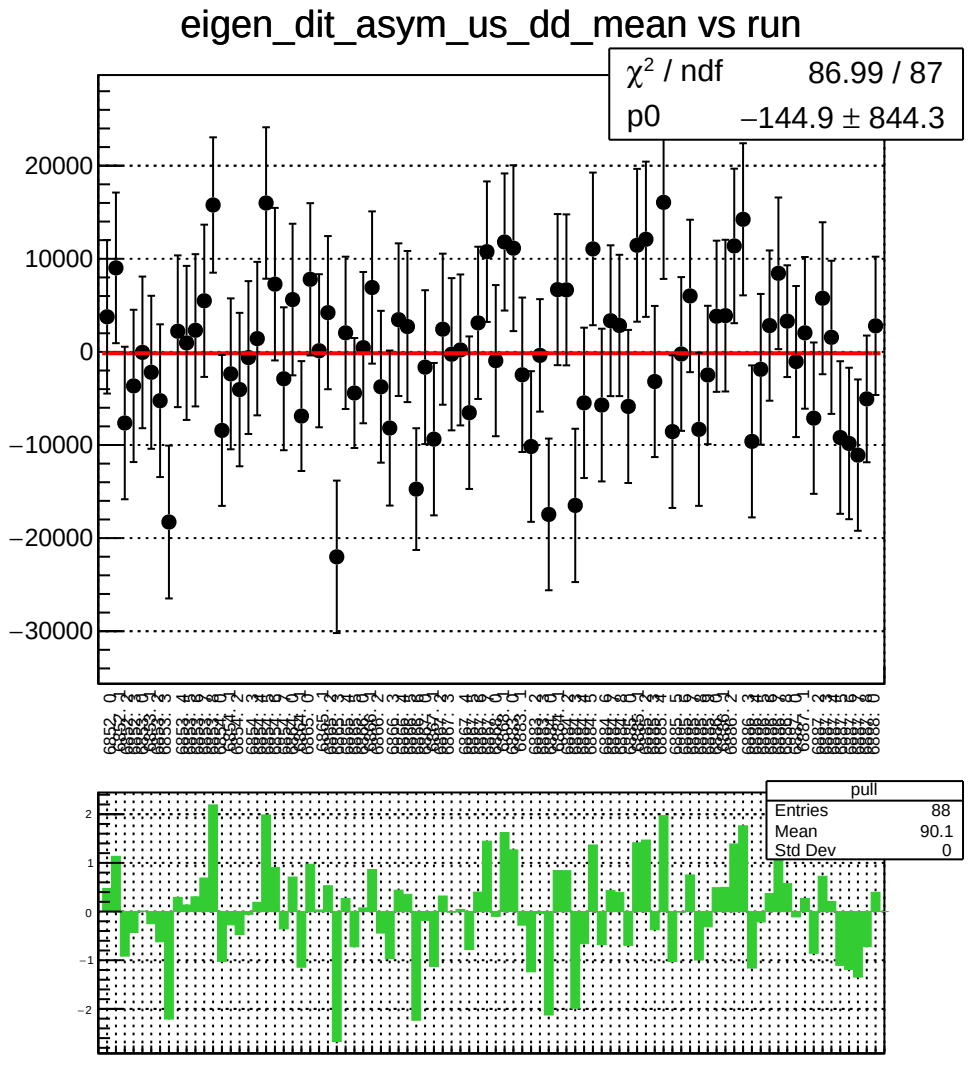
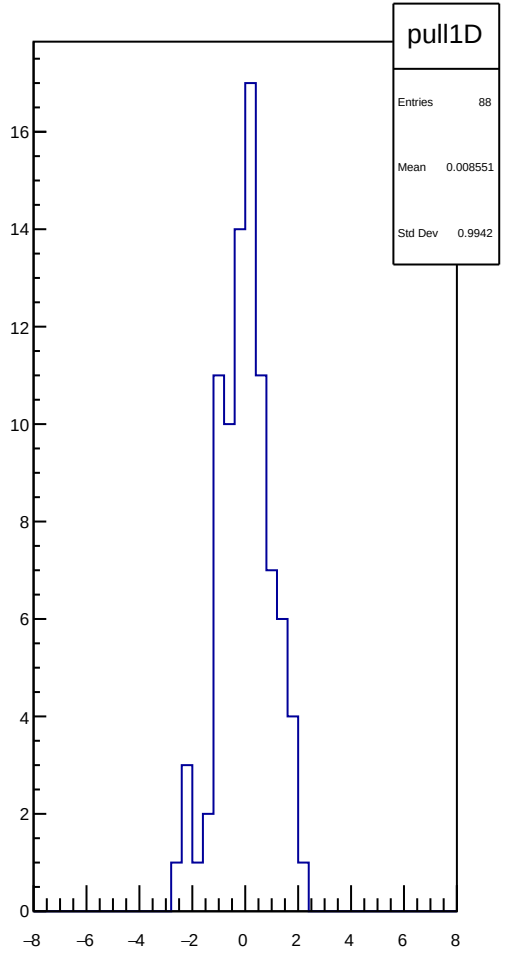
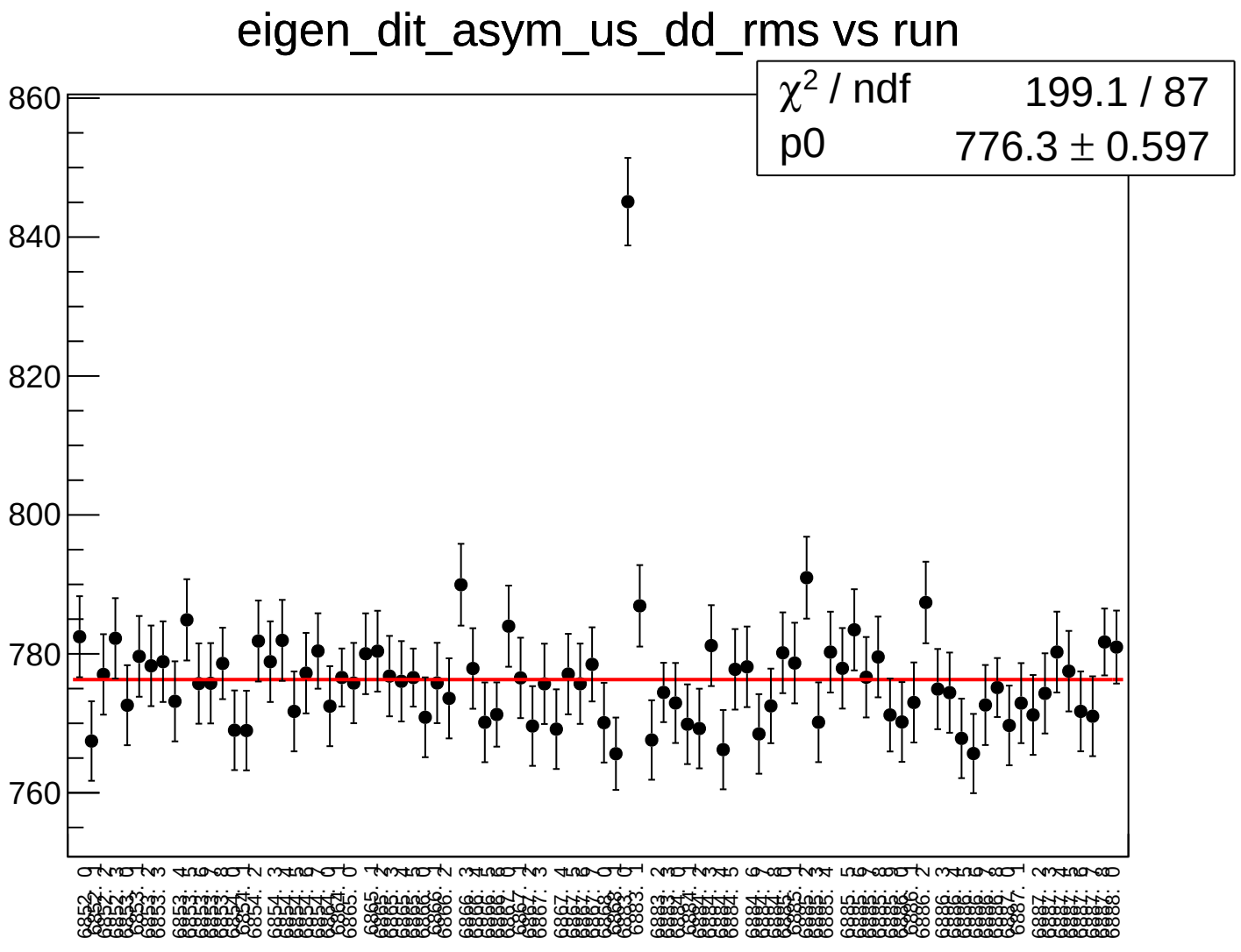
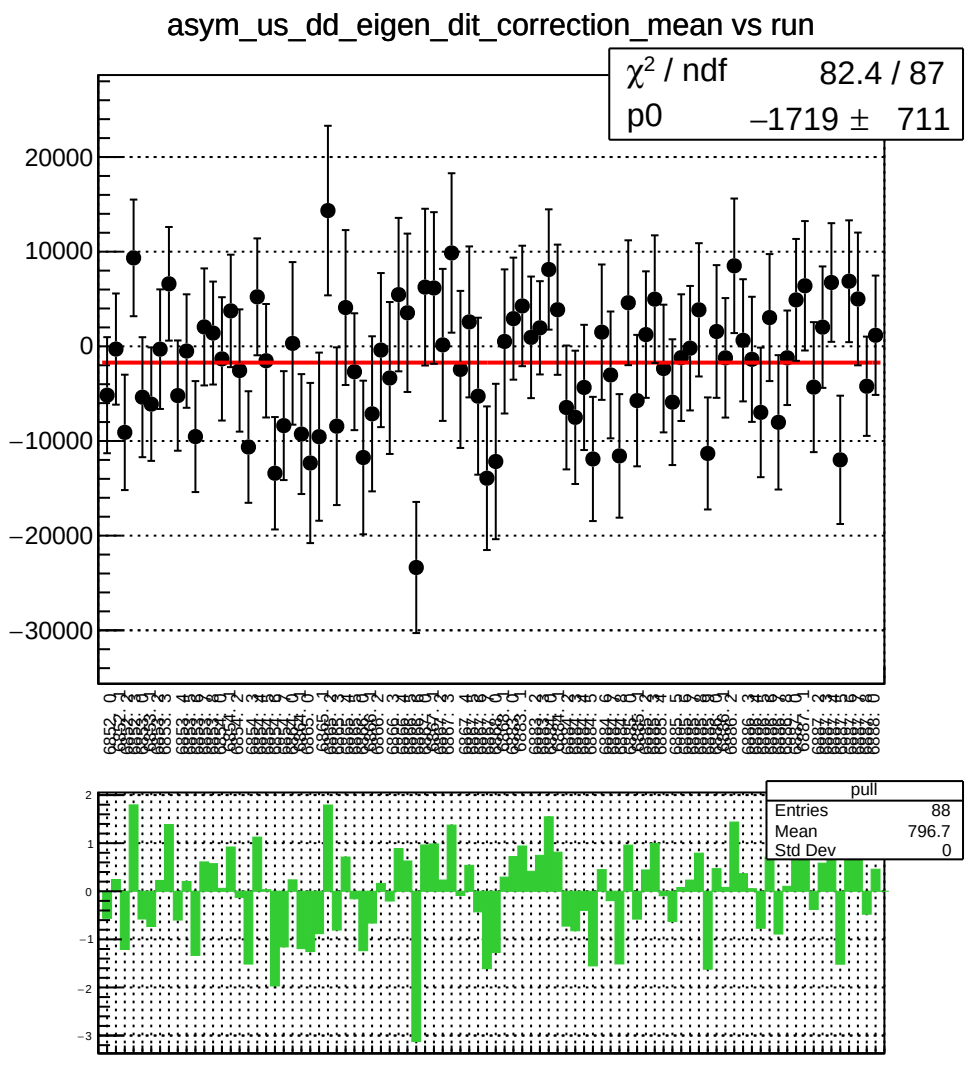
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

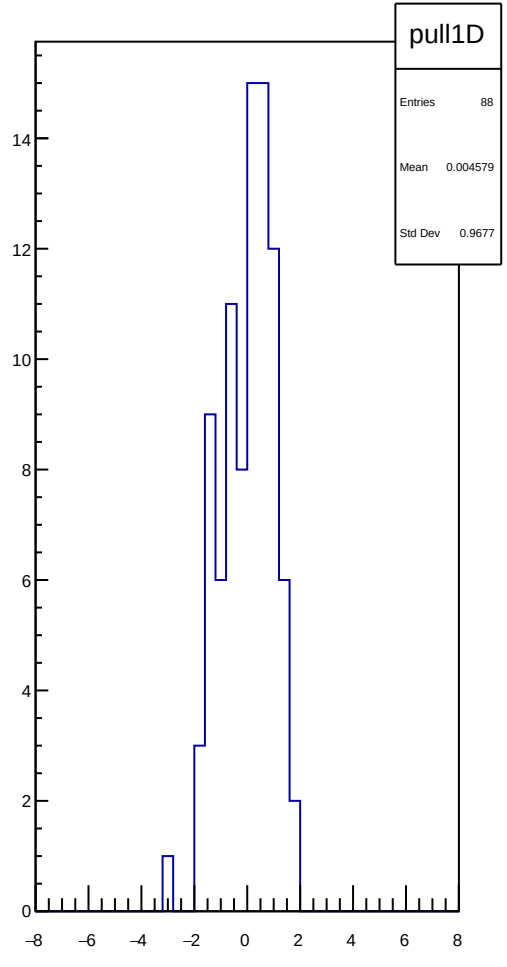

asym_us_dd_dit_correction_rms vs run
χ² / ndf 2.456e+04 / 87
p0 649 ± 0.5028
850
800
750
700
650
600
550

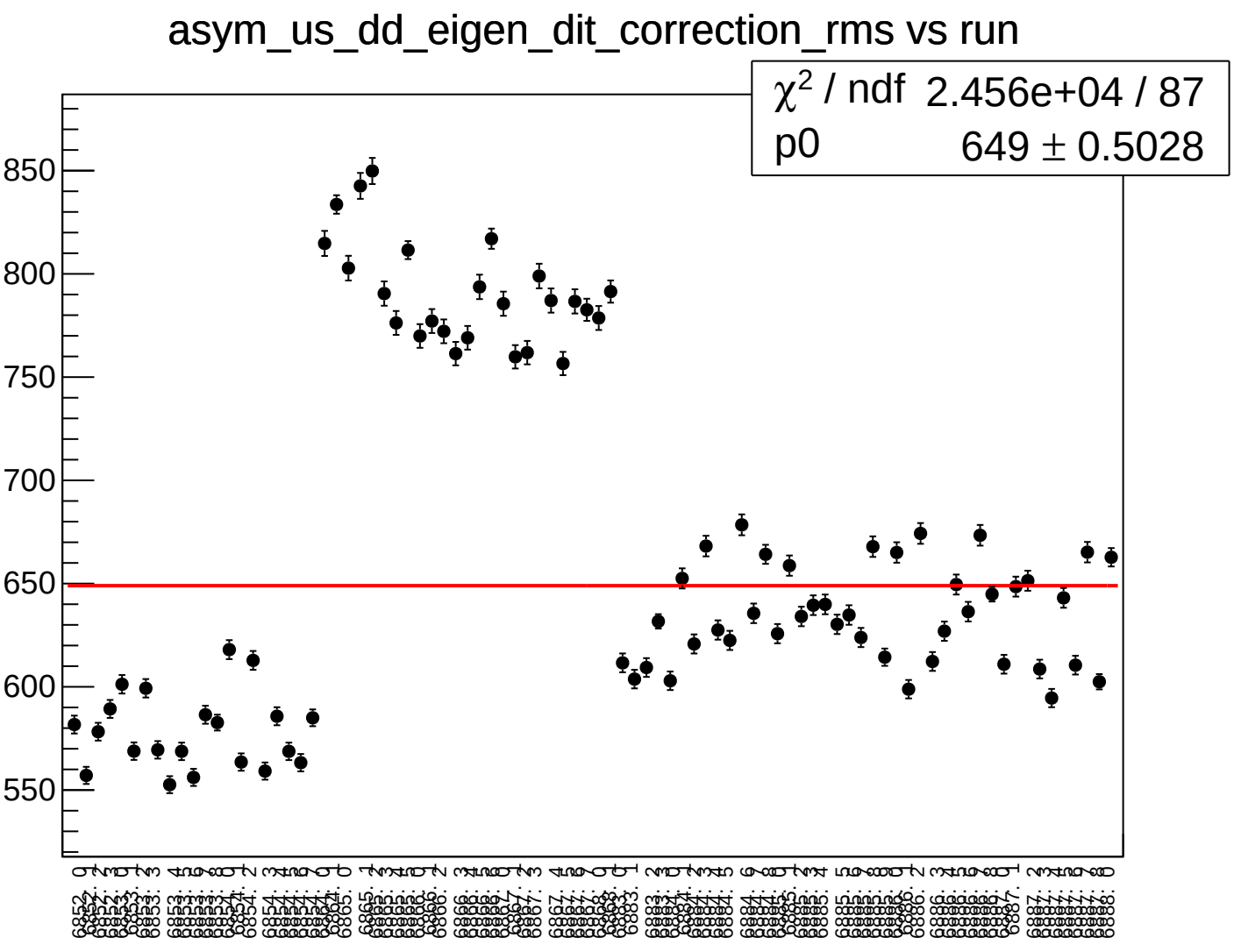

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 86.99 / 87
p0 −144.9 ± 844.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 90.1
Std Dev 0
2
1
0
−1
−2

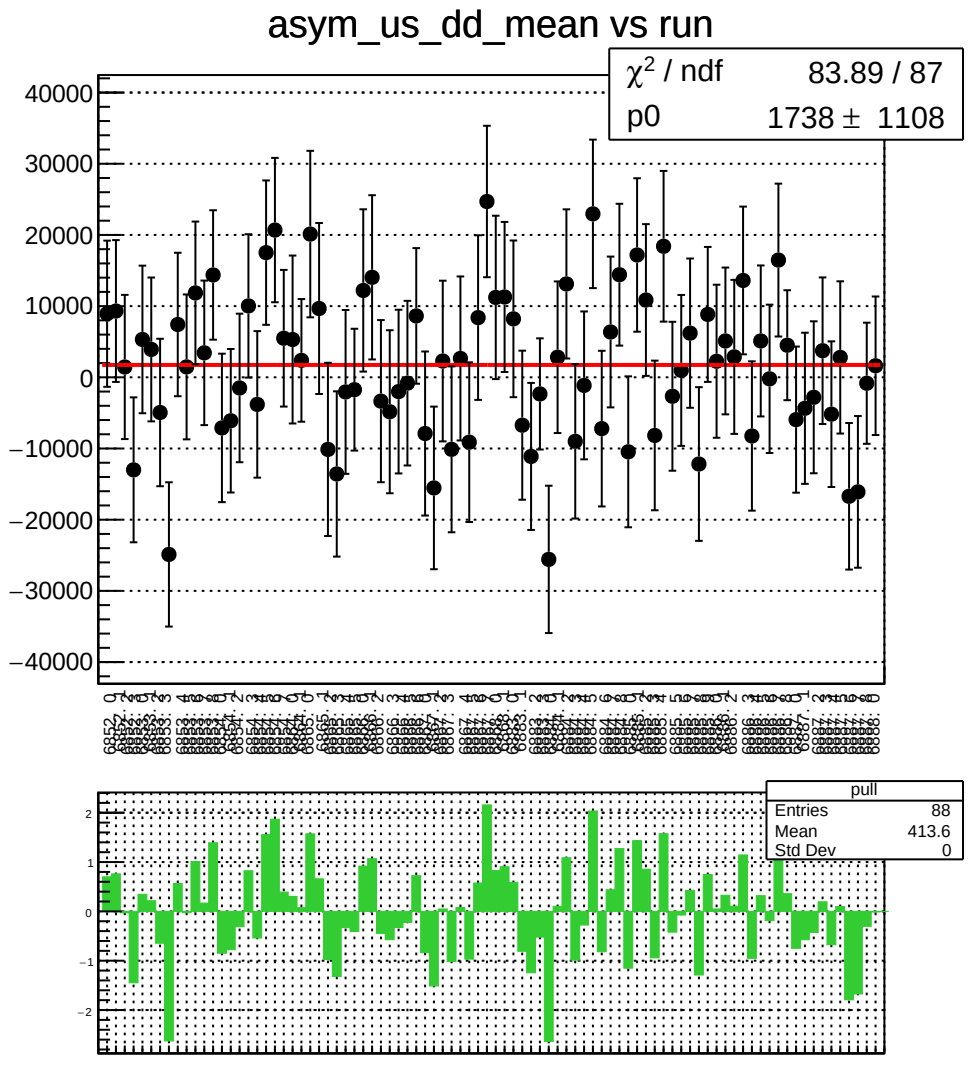

pull1D
Entries 88
Mean 0.008551
Std Dev 0.9942
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

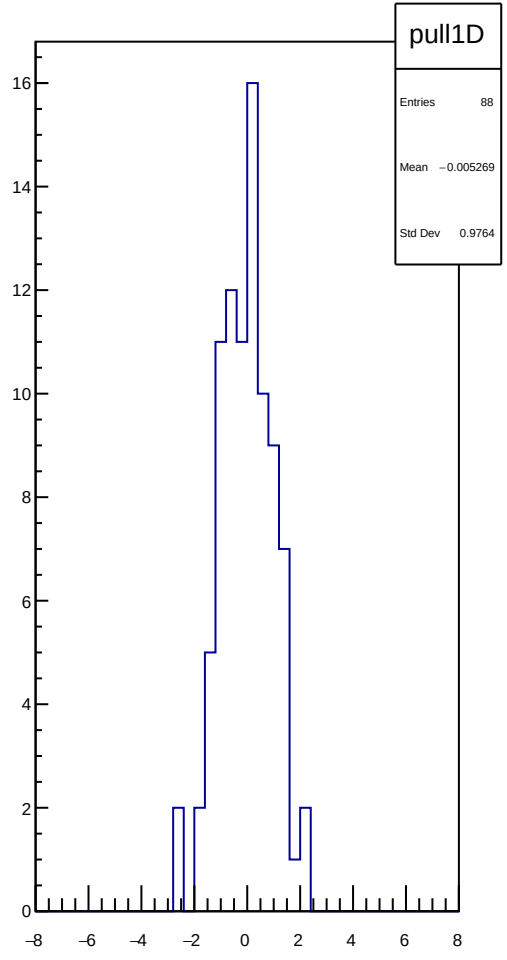

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 199.1 / 87
p0 776.3 ± 0.597
860
840
820
800
780
760

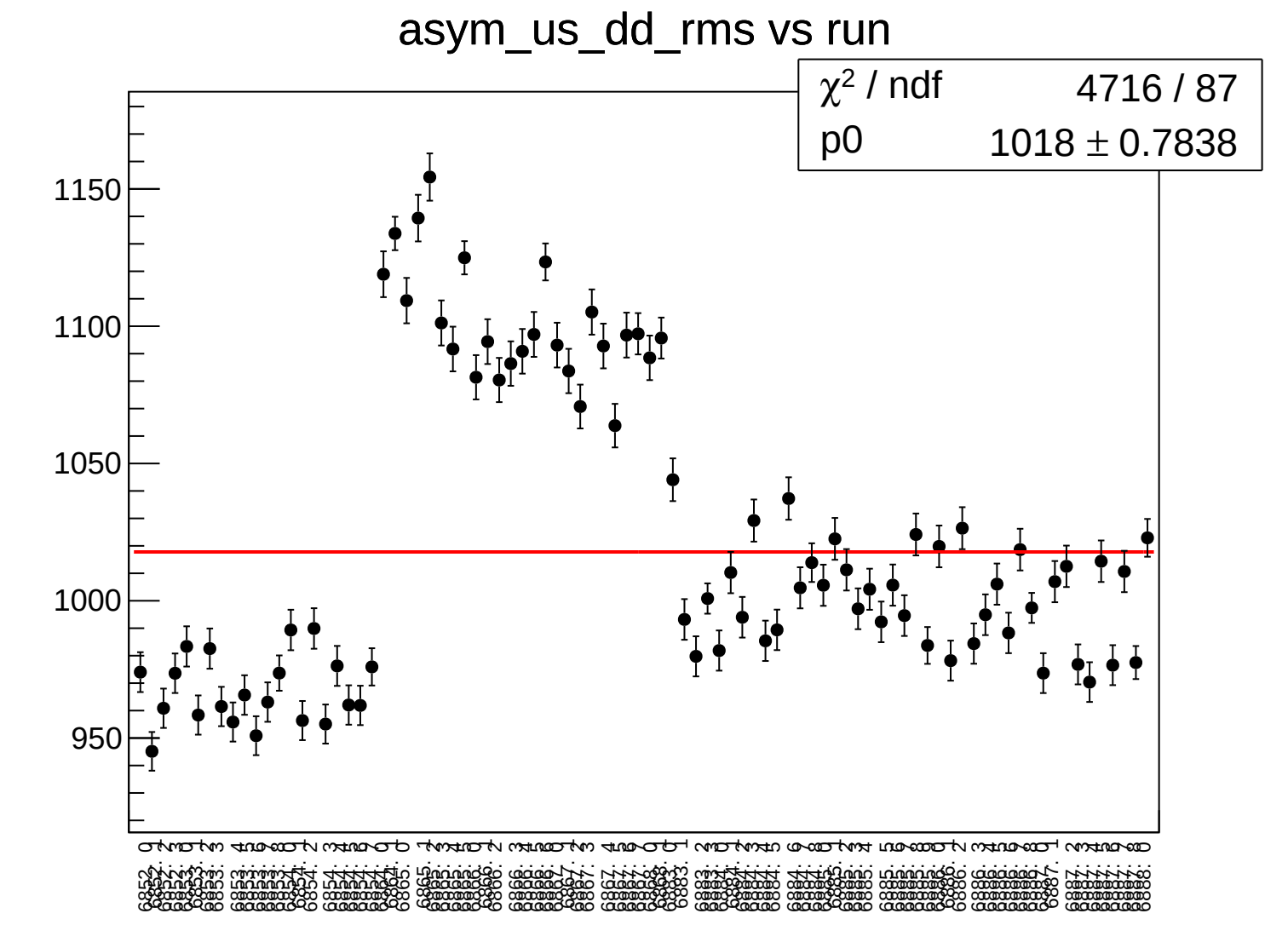

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.4 / 87
p0 −1719 ± 711
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 796.7
Std Dev 0
2
1
0
−1
−2
−3

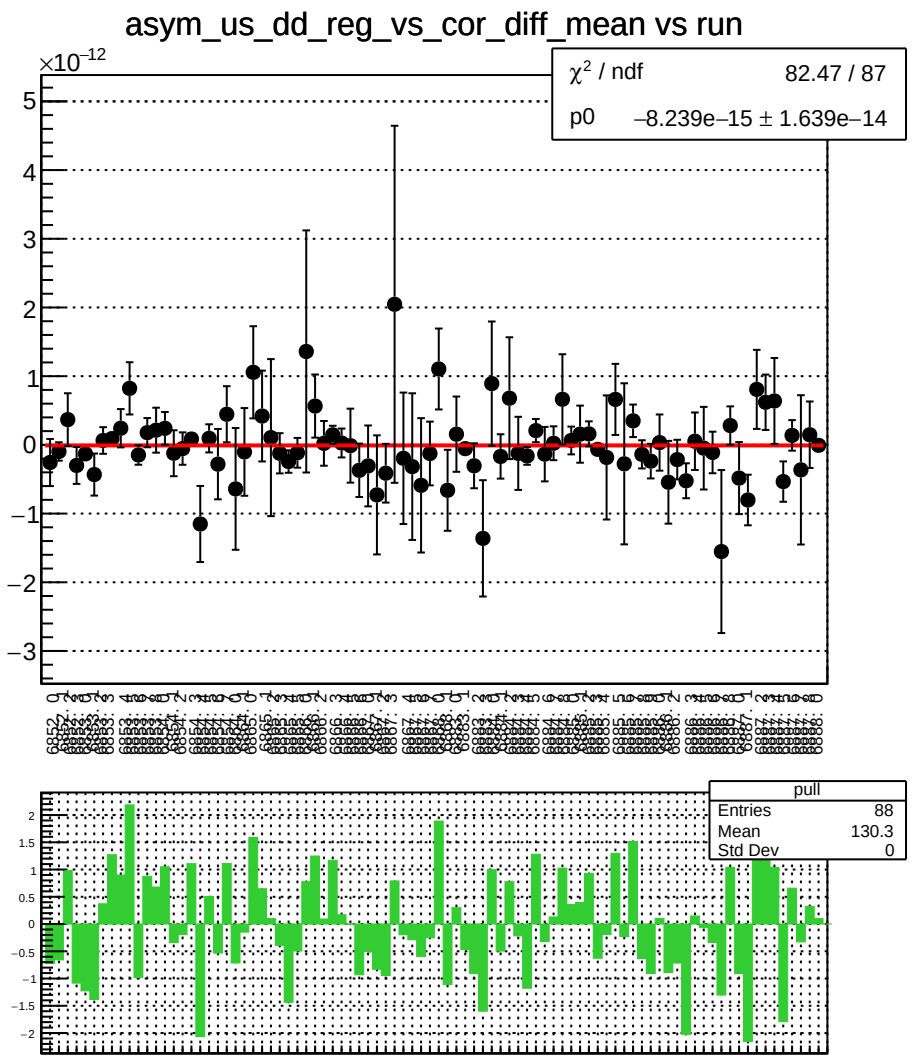

pull1D
Entries 88
Mean 0.004579
Std Dev 0.9677
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

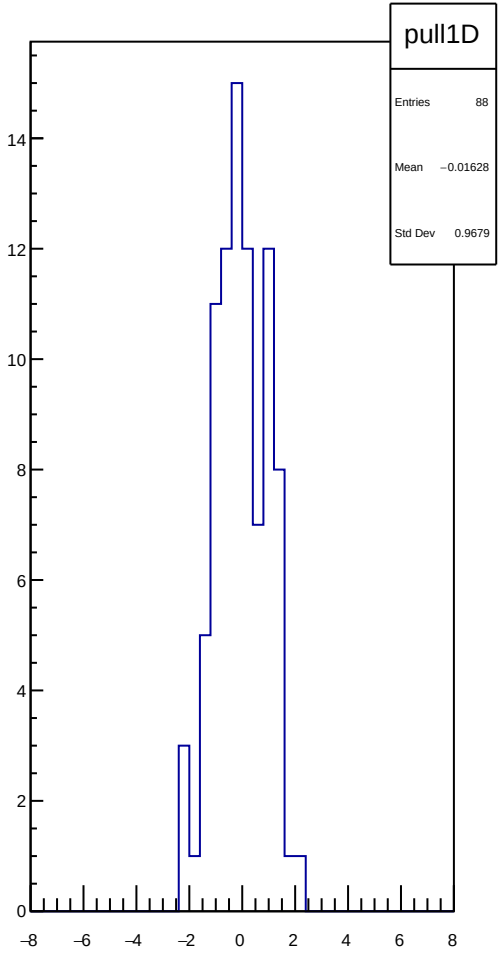

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.456e+04 / 87
p0 649 ± 0.5028
850
800
750
700
650
600
550

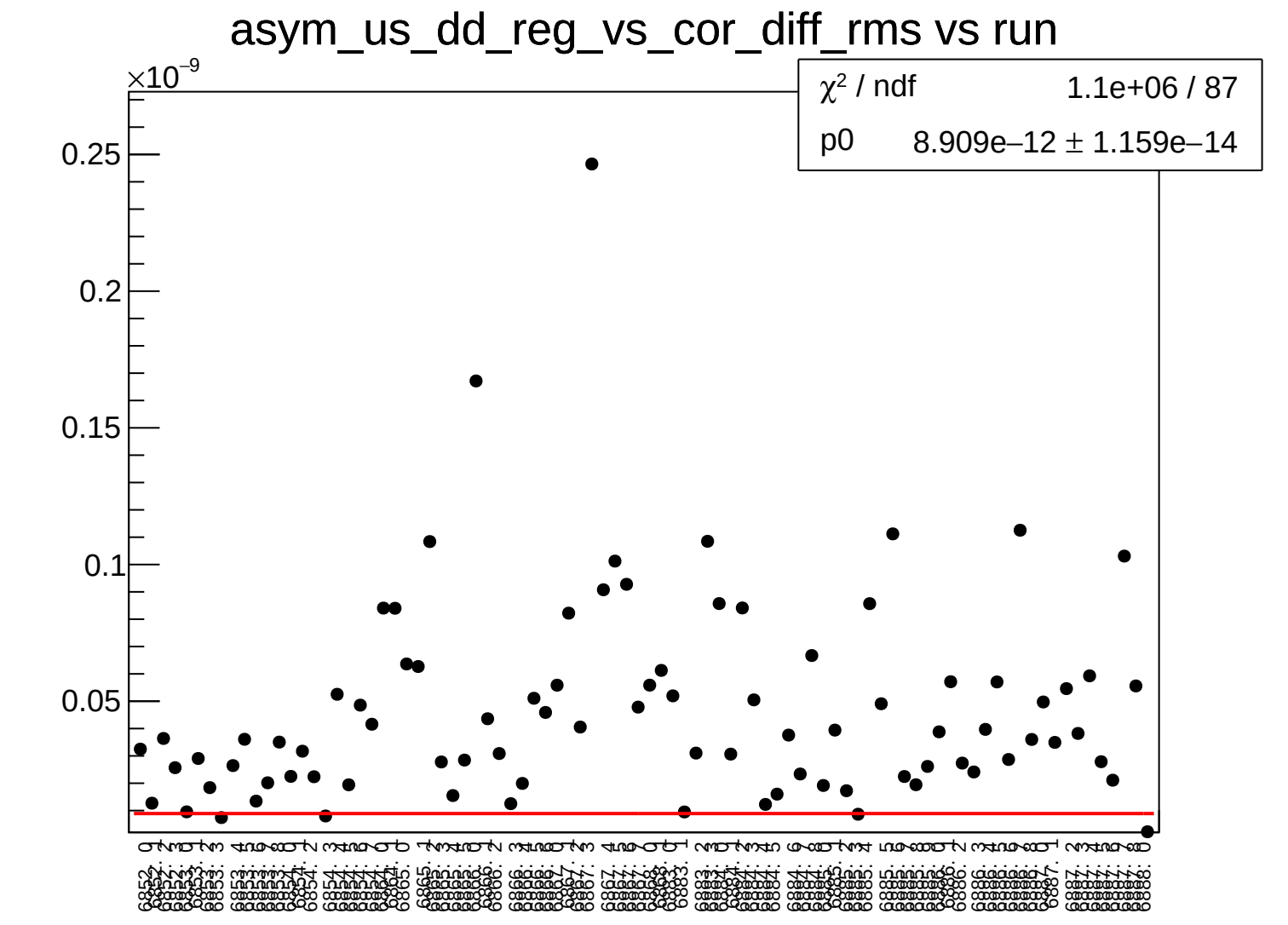

asym_us_dd_mean vs run
χ² / ndf 83.89 / 87
p0 1738 ± 1108
pull
Entries 88
Mean 413.6
Std Dev 0

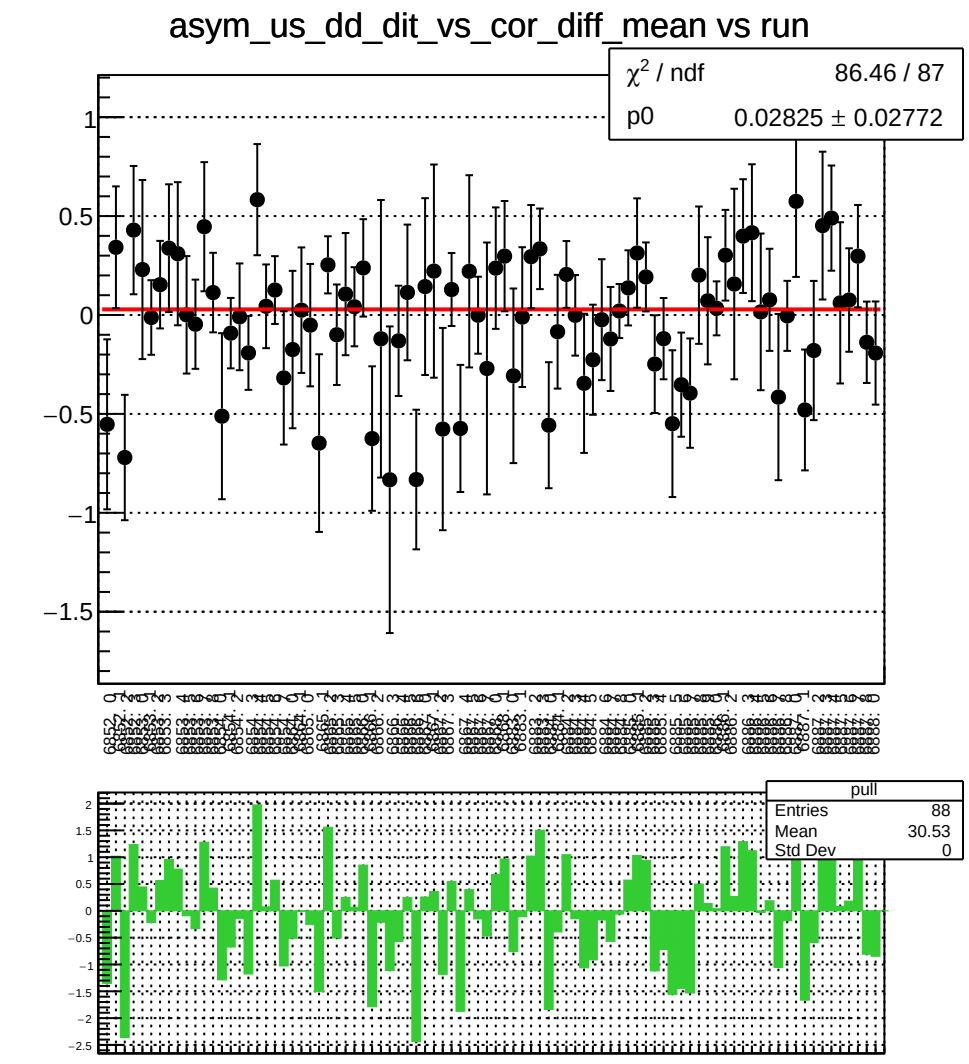

pull1D
Entries 88
Mean −0.005269
Std Dev 0.9764

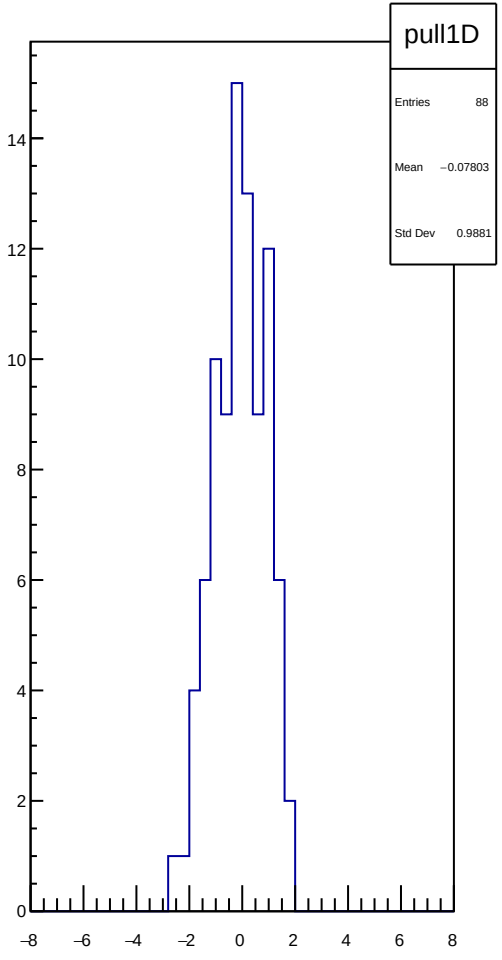

asym_us_dd_rms vs run
χ² / ndf 4716 / 87
p0 1018 ± 0.7838
1150
1100
1050
1000
950

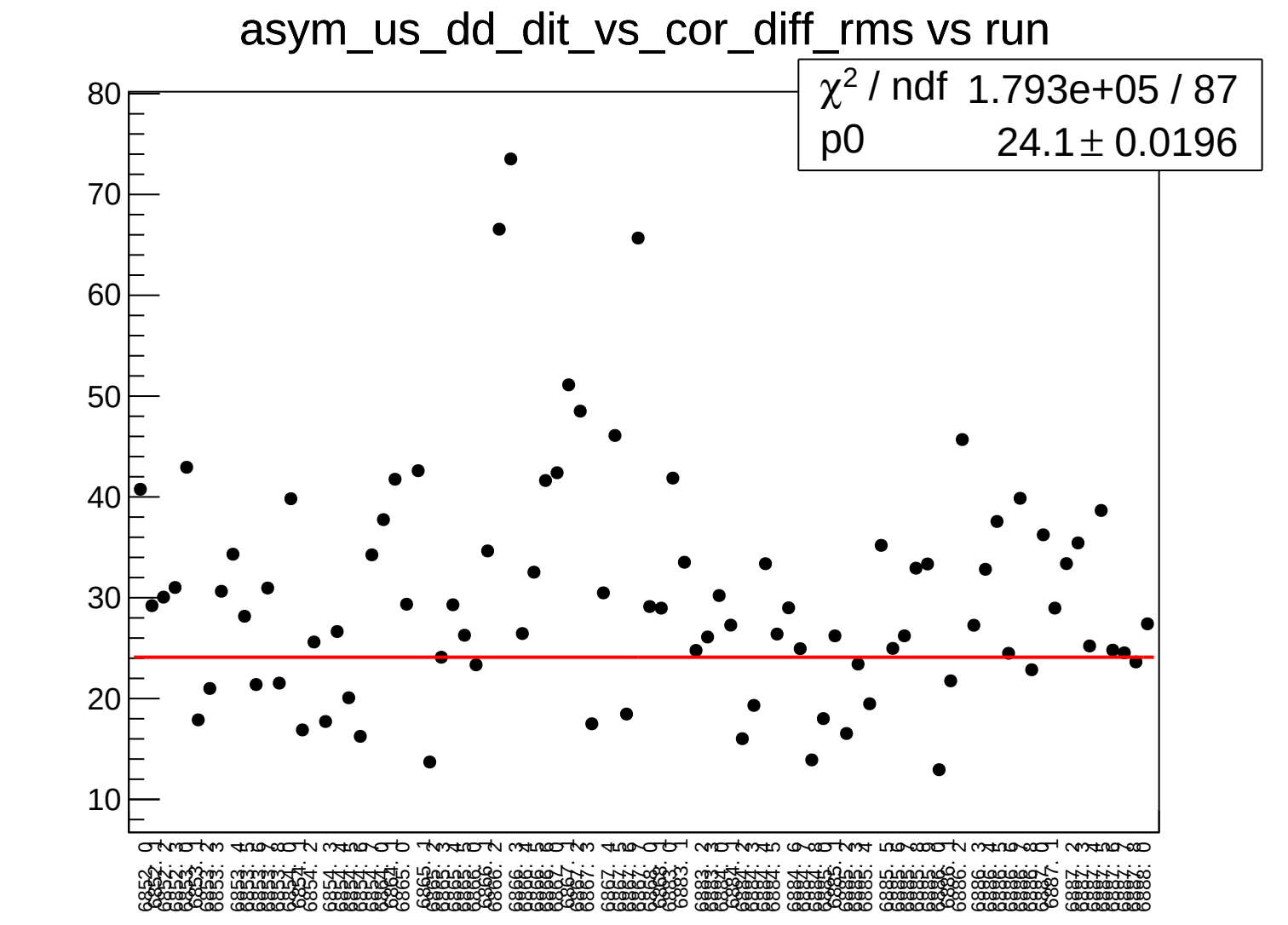

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.47 / 87
p0 −8.239e−15 ± 1.639e−14
pull
Entries 88
Mean 130.3
Std Dev 0

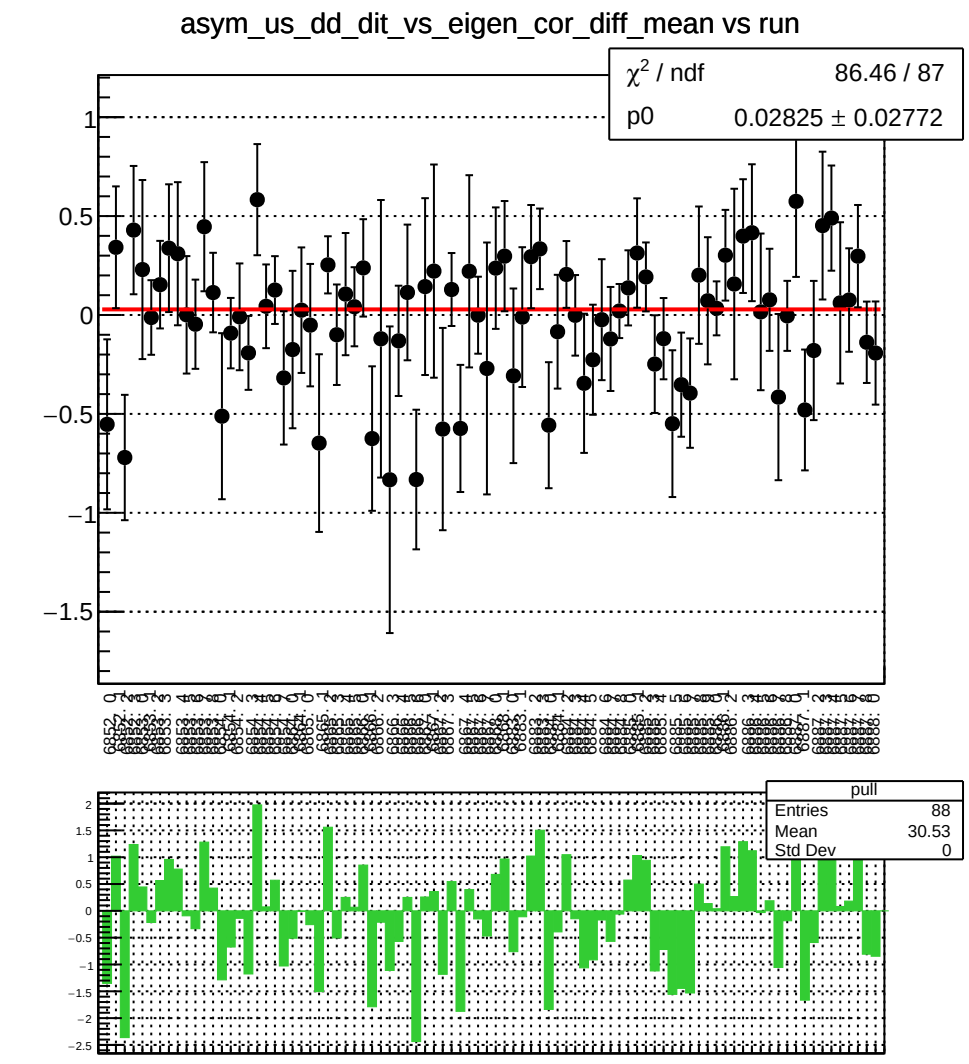

pull1D
Entries 88
Mean −0.01628
Std Dev 0.9679

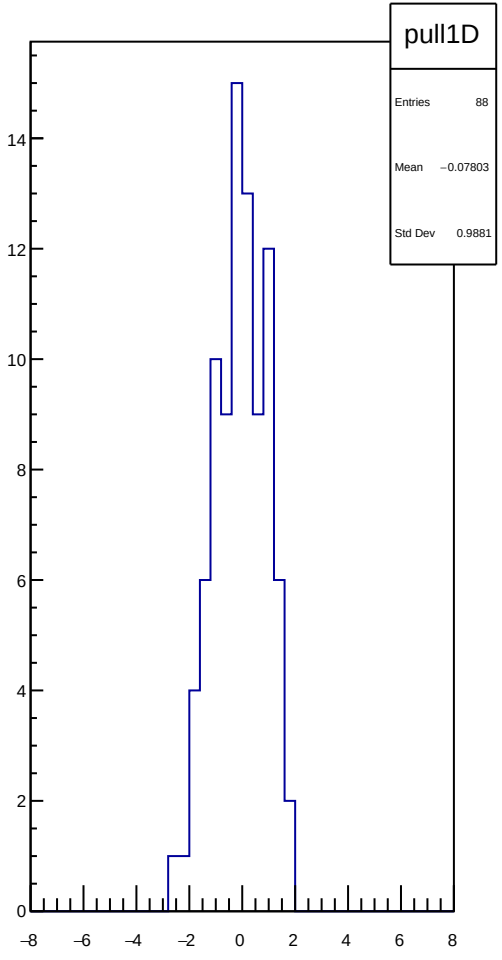

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.1e+06 / 87
p0 8.909e−12 ± 1.159e−14
0.25
0.2
0.15
0.1
0.05

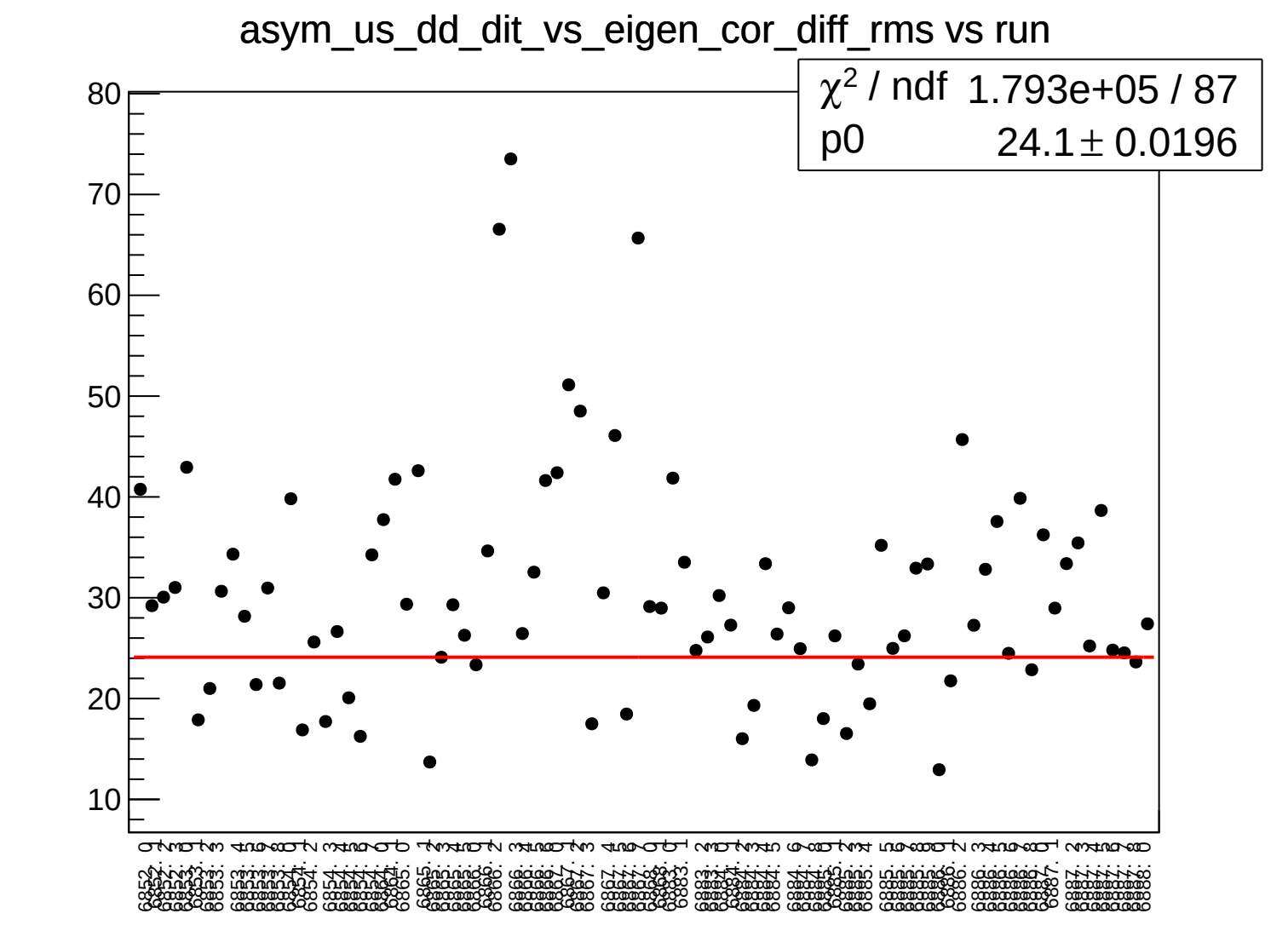

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.46 / 87
p0 0.02825 ± 0.02772
pull
Entries 88
Mean 30.53
Std Dev 0

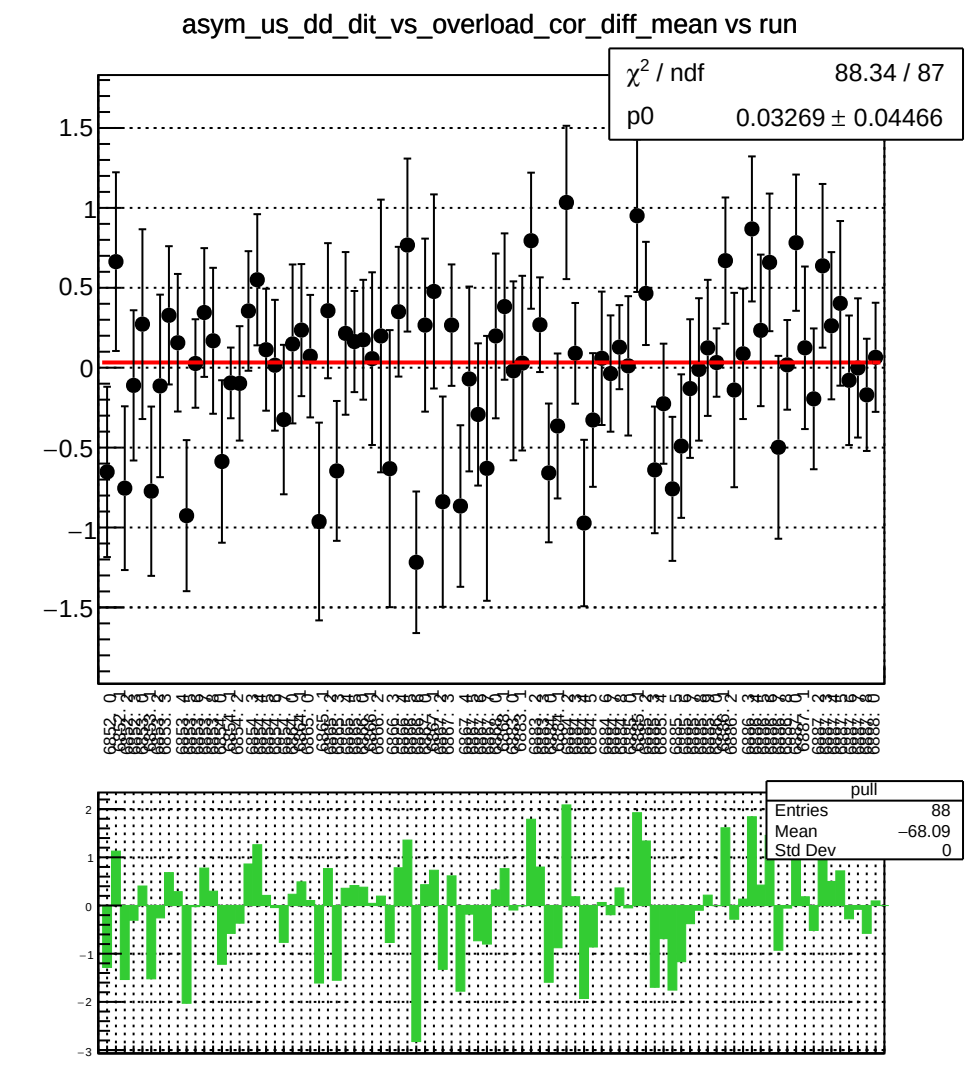

pull1D
Entries 88
Mean −0.07803
Std Dev 0.9881

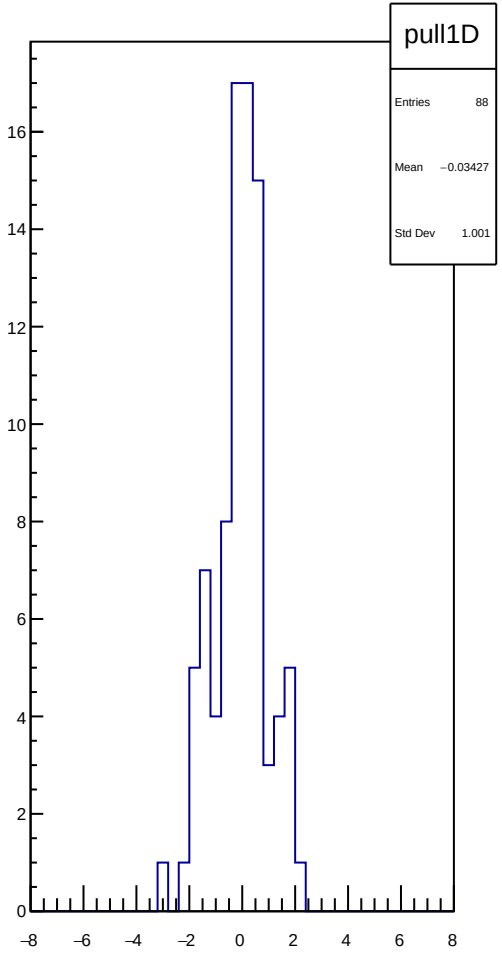

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.793e+05 / 87
p0 24.1 ± 0.0196
80
70
60
50
40
30
20
10

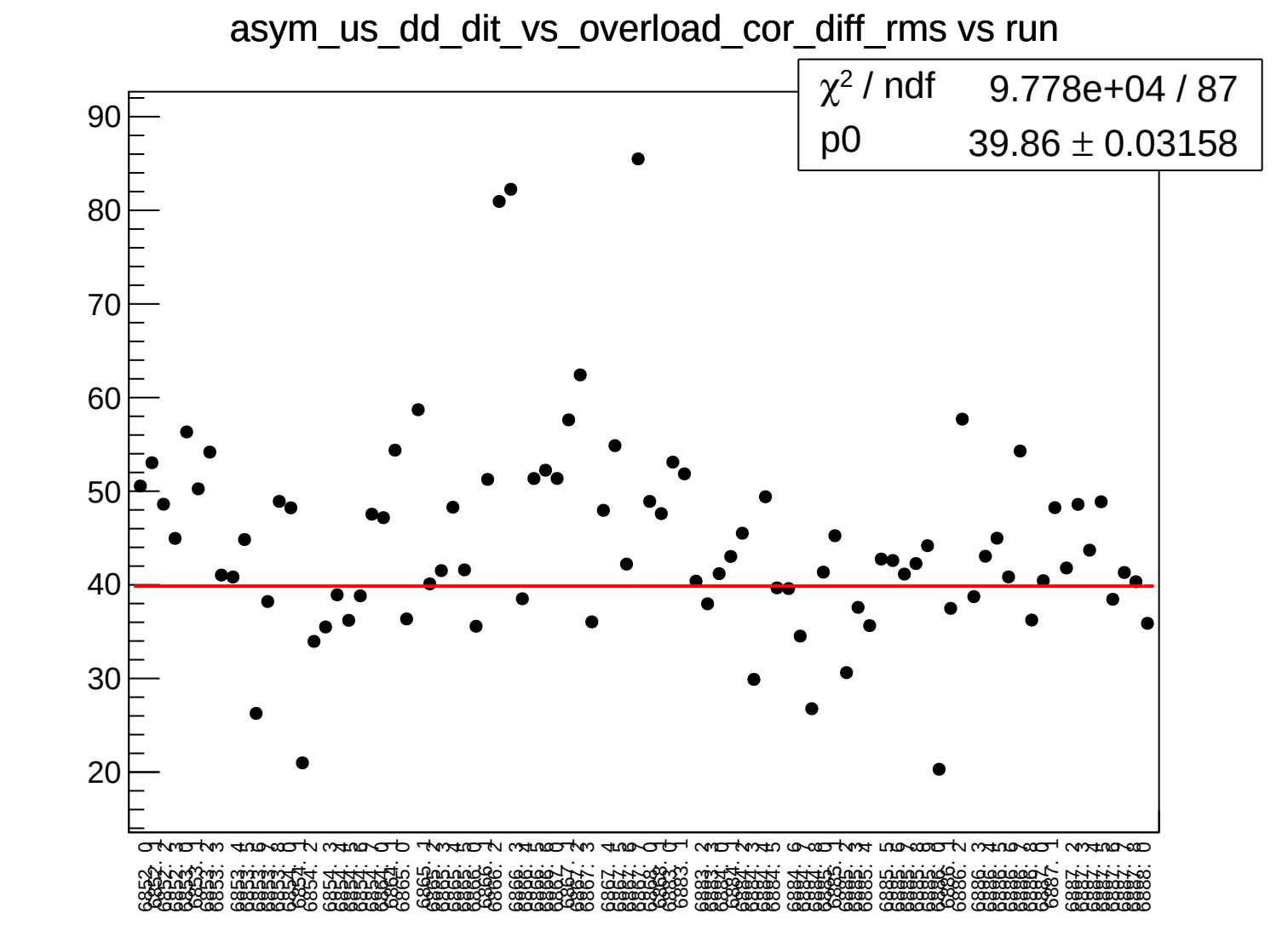

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.46 / 87
p0 0.02825 ± 0.02772
pull
Entries 88
Mean 30.53
Std Dev 0

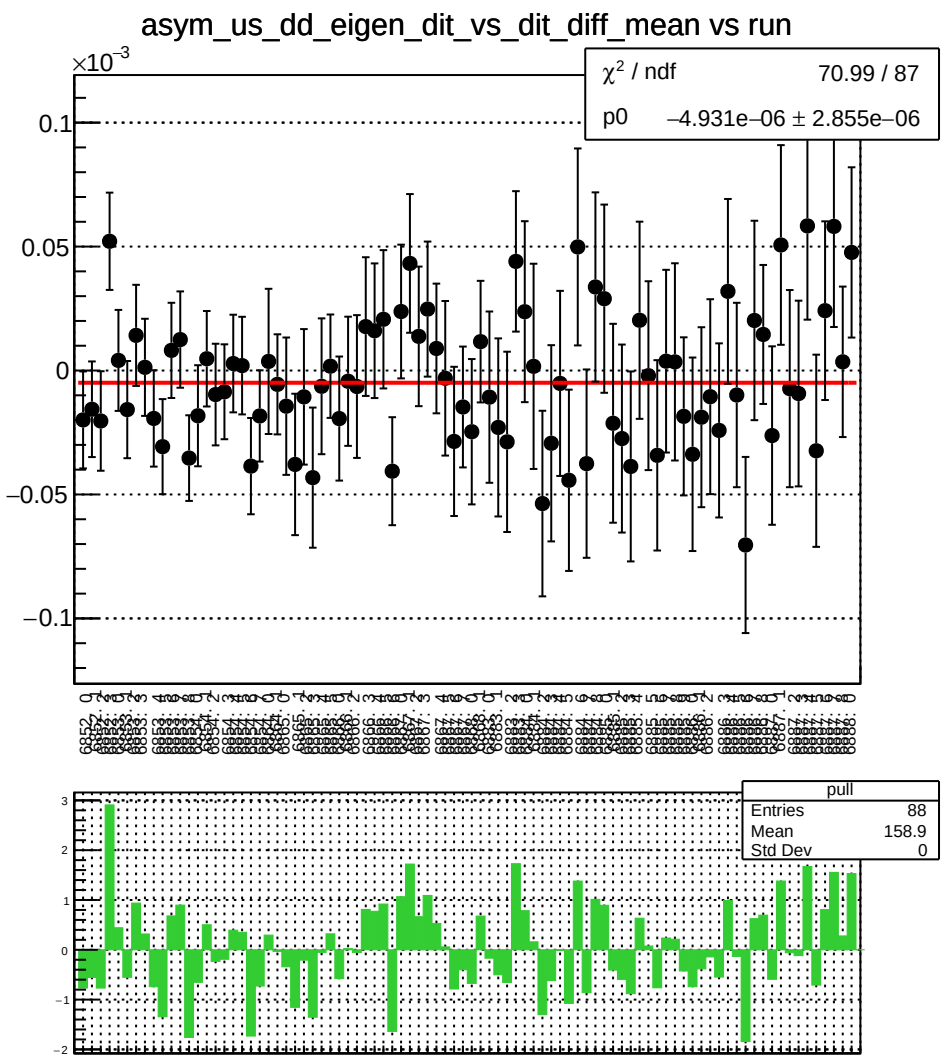

pull1D
Entries 88
Mean −0.07803
Std Dev 0.9881

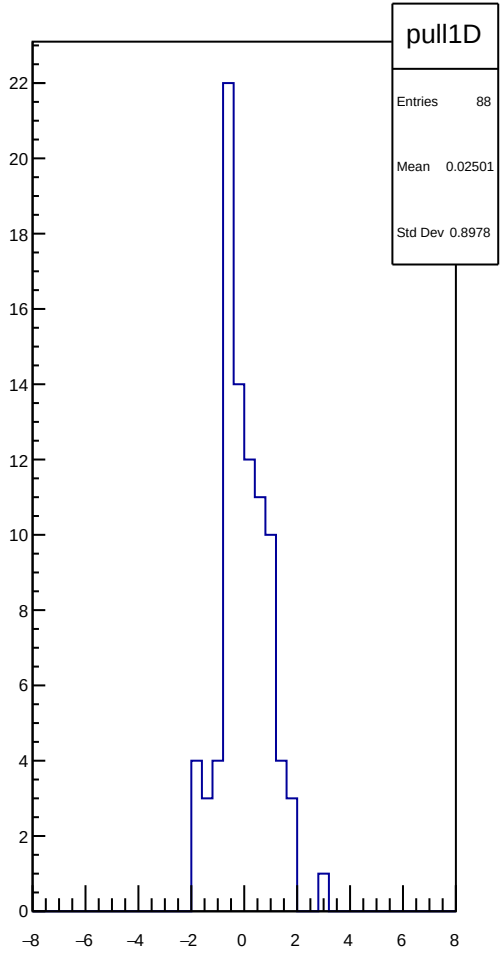

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.793e+05 / 87
p0 24.1 ± 0.0196
80
70
60
50
40
30
20
10

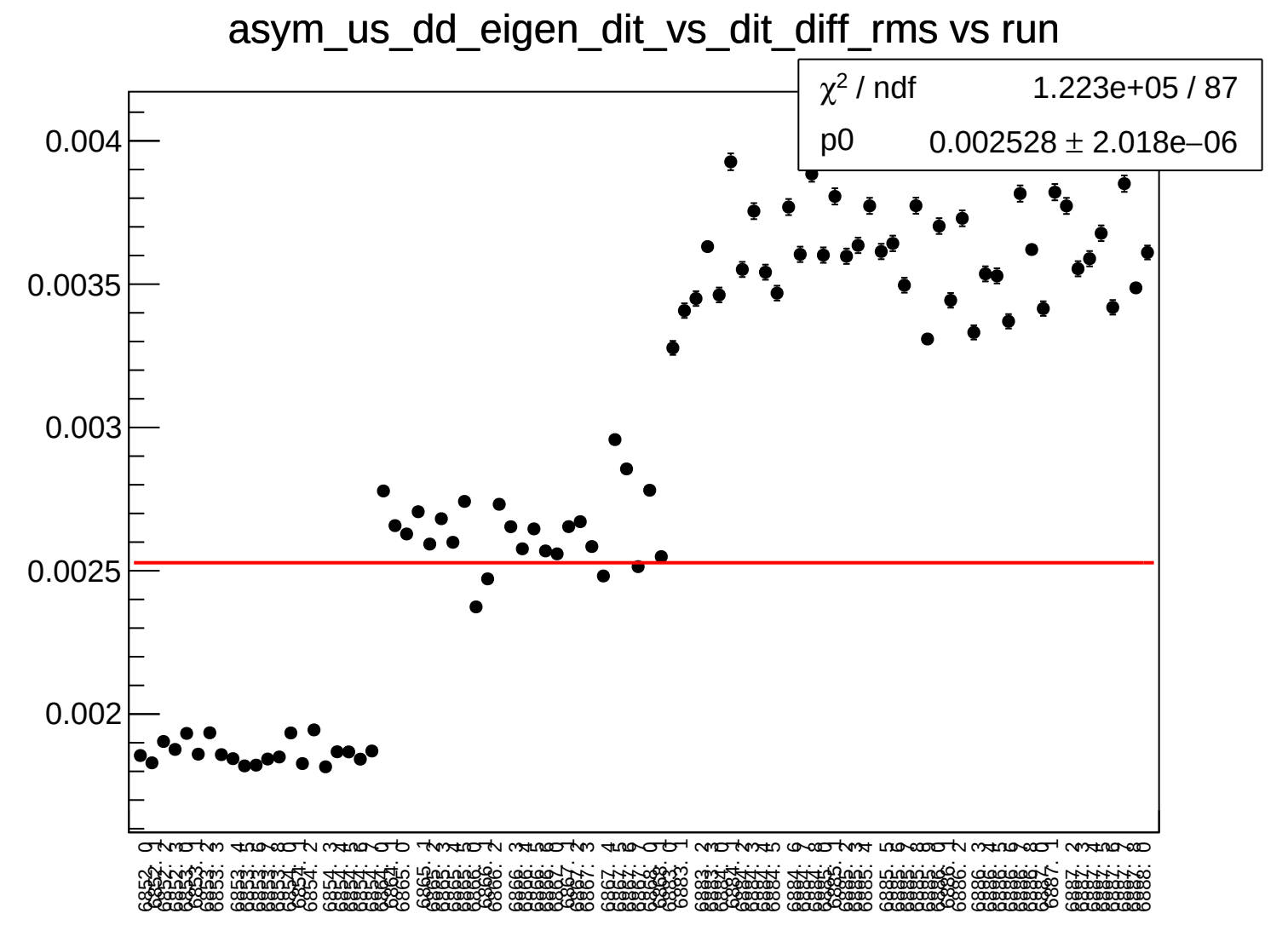

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 88.34 / 87
p0 0.03269 ± 0.04466
pull
Entries 88
Mean −68.09
Std Dev 0

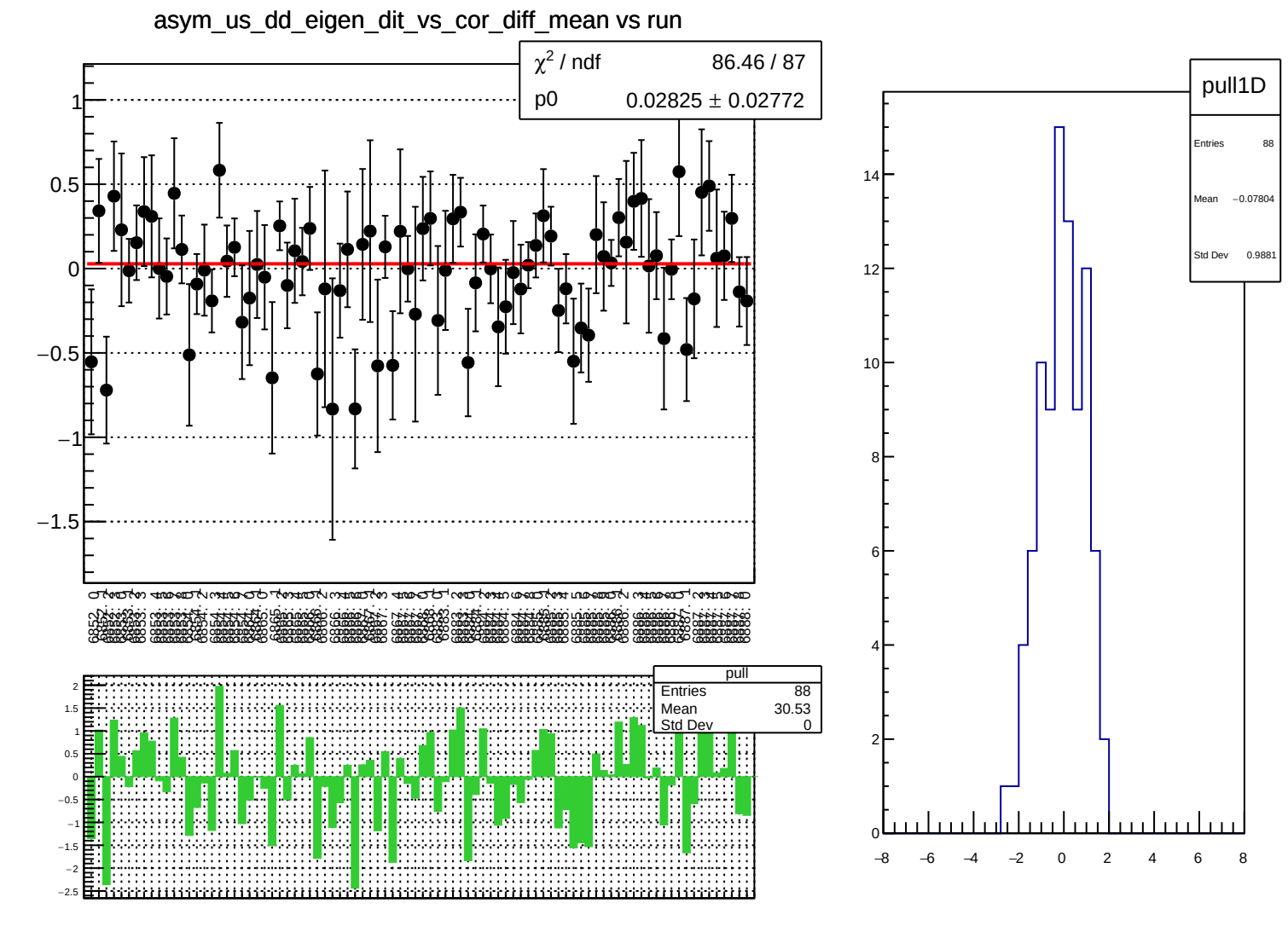

pull1D
Entries 88
Mean −0.03427
Std Dev 1.001

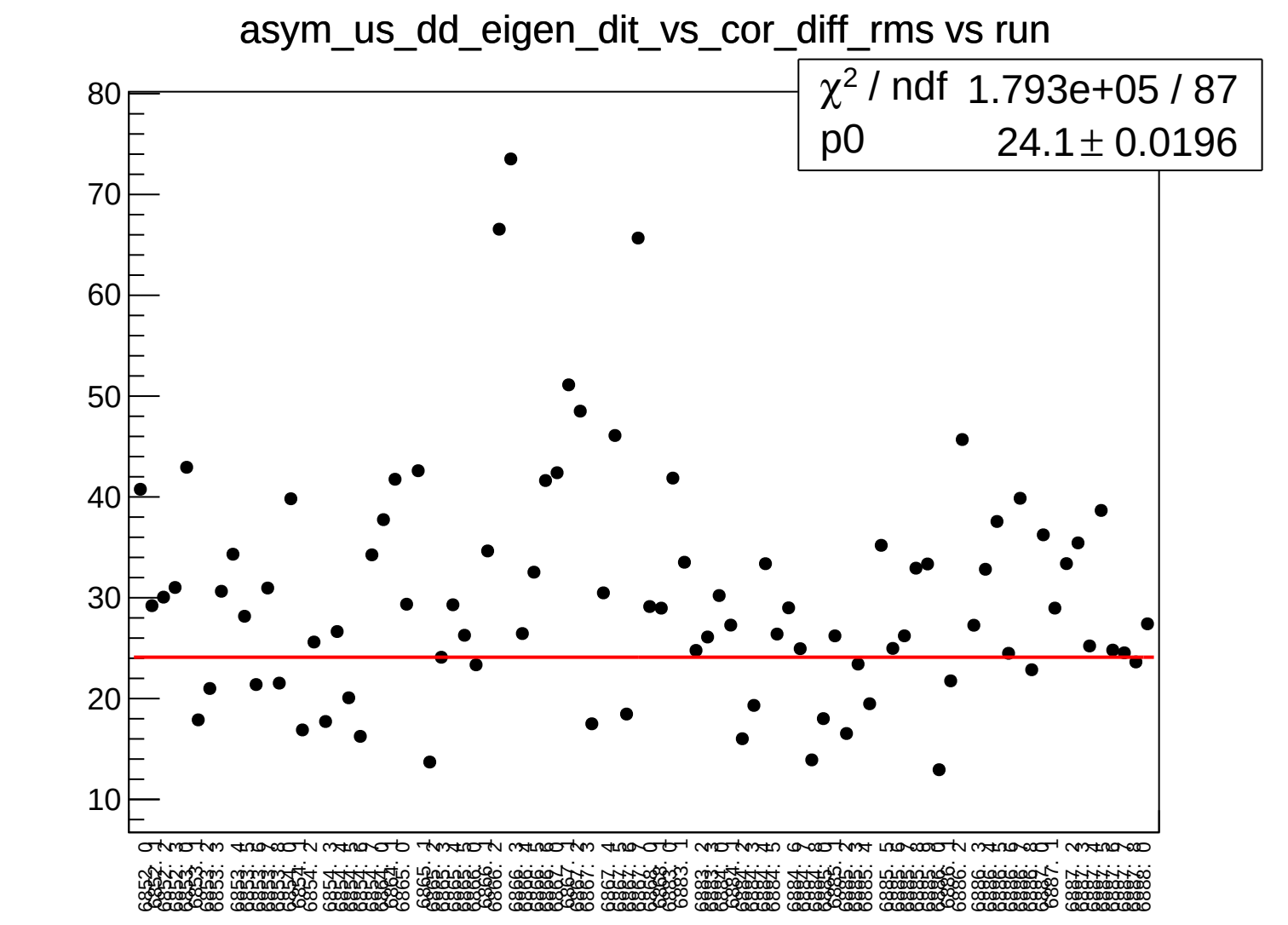

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 9.778e+04 / 87
p0 39.86 ± 0.03158
90
80
70
60
50
40
30
20

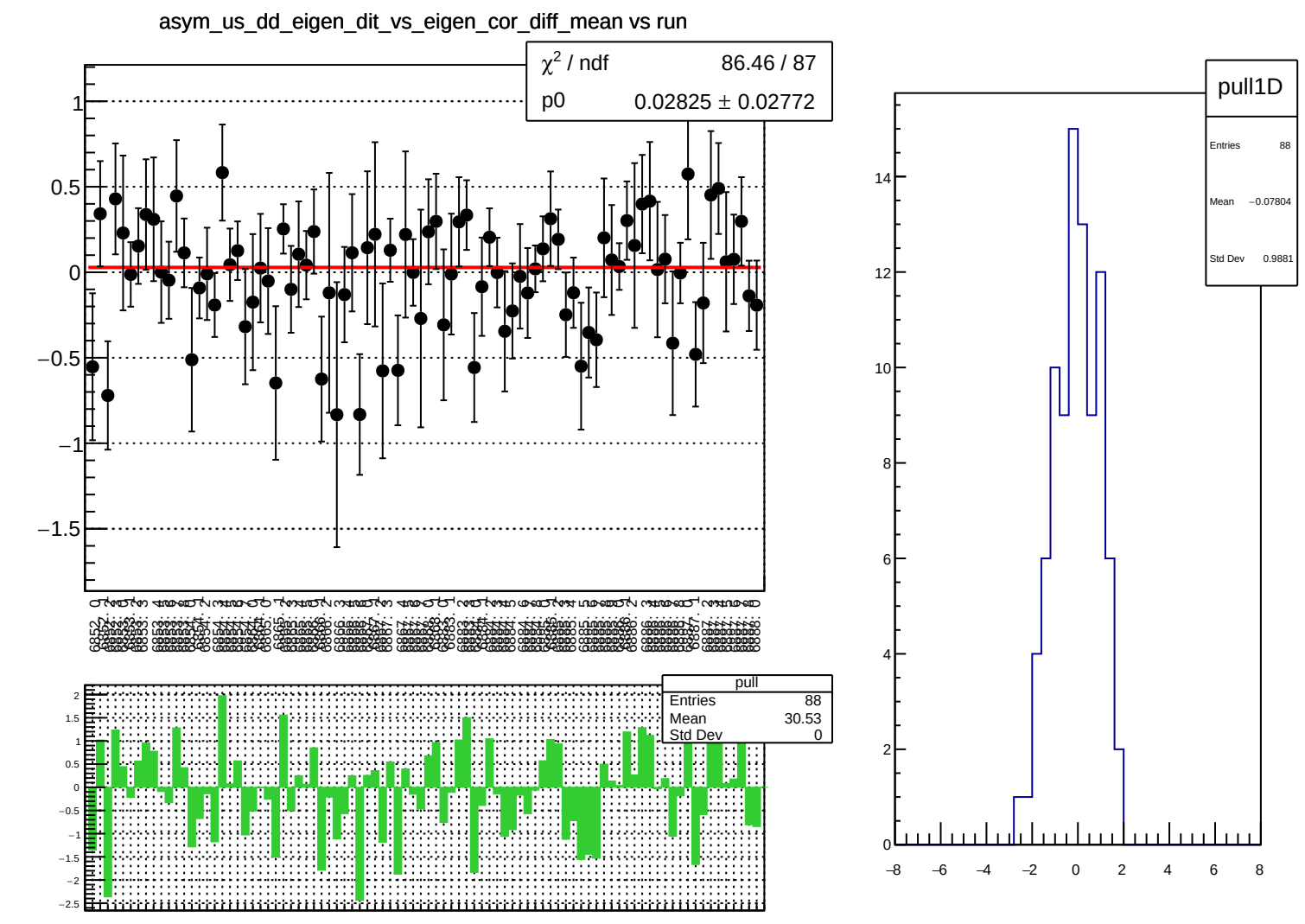

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.99 / 87
p0 −4.931e−06 ± 2.855e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 158.9
Std Dev 0
3
2
1
0
−1
−2

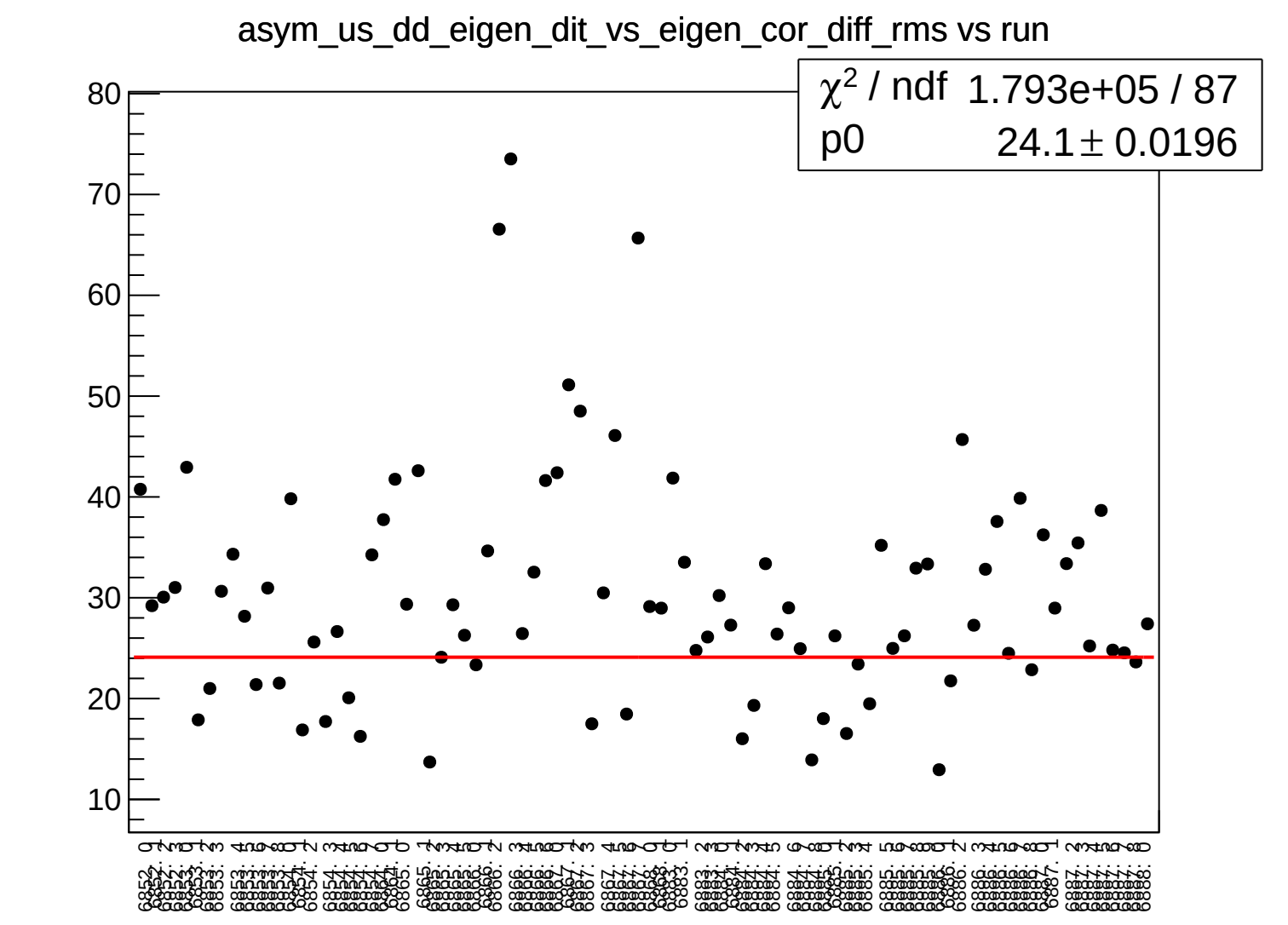

pull1D
Entries 88
Mean 0.02501
Std Dev 0.8978
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

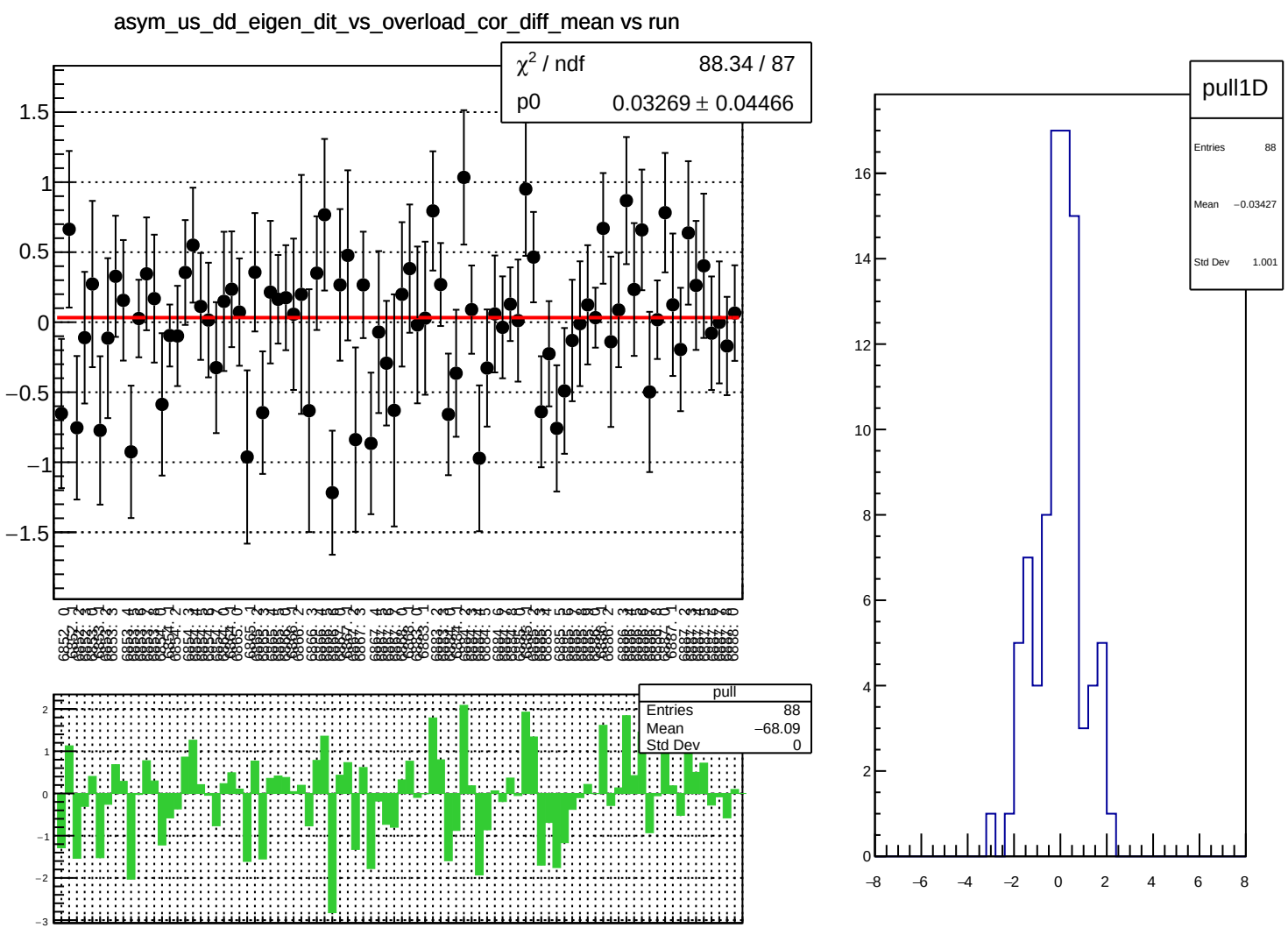

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.223e+05 / 87
p0 0.002528 ± 2.018e−06
0.004
0.0035
0.003
0.0025
0.002

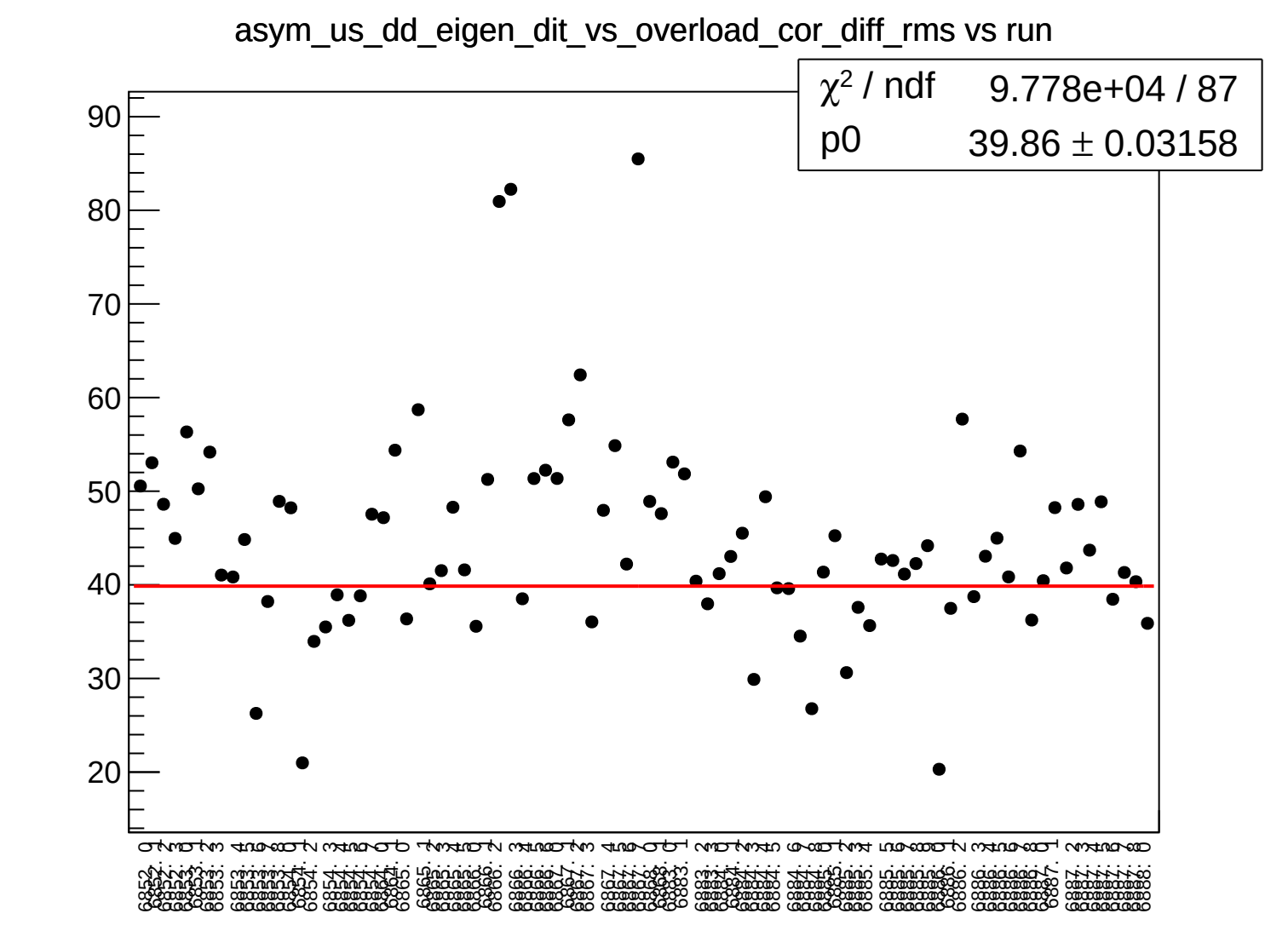

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.46 / 87
p0 0.02825 ± 0.02772
pull
Entries 88
Mean 30.53
Std Dev 0
pull1D
Entries 88
Mean −0.07804
Std Dev 0.9881

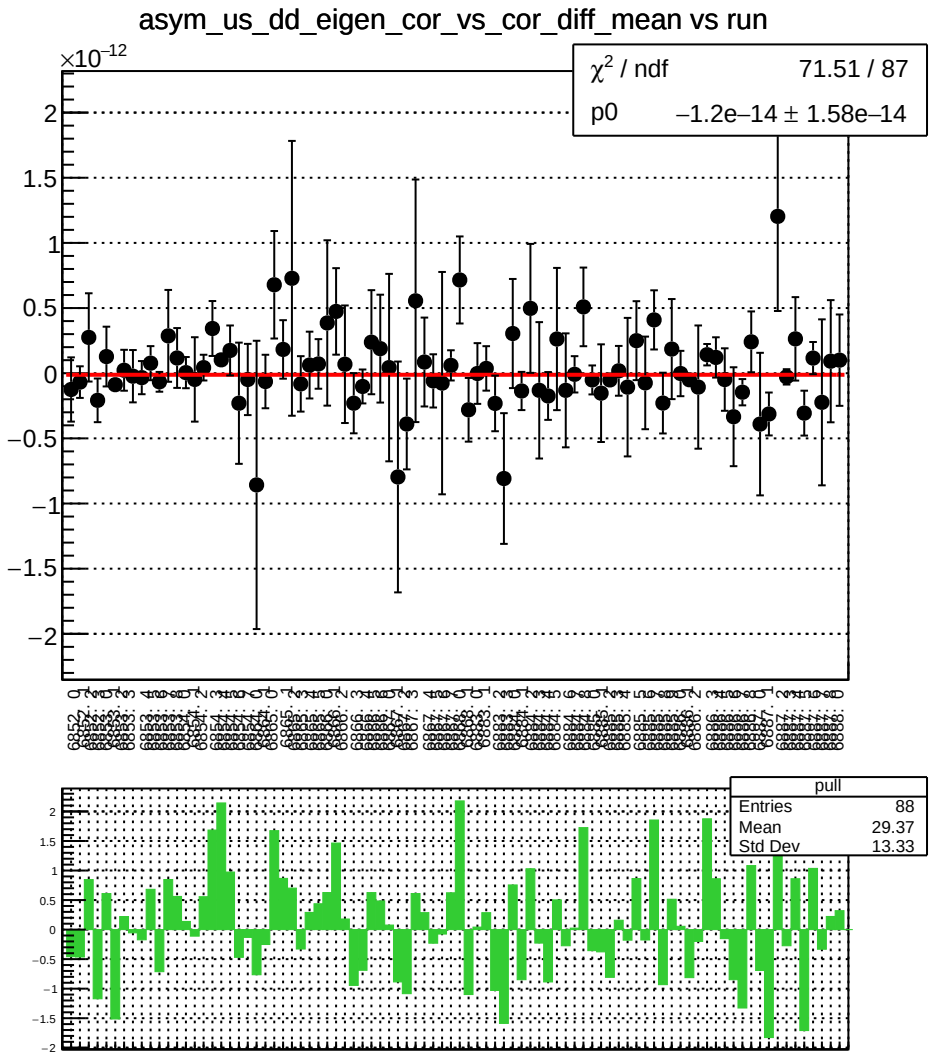

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.793e+05 / 87
p0 24.1 ± 0.0196
80
70
60
50
40
30
20
10

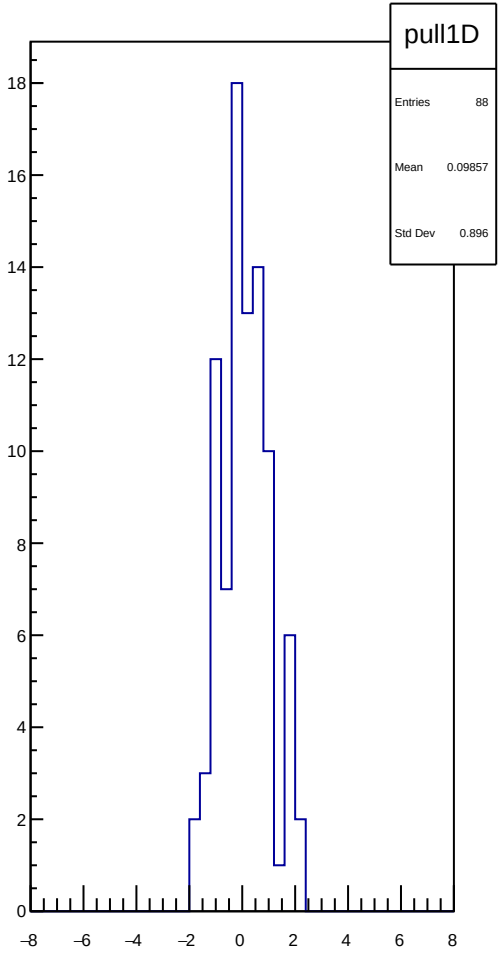

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.46 / 87
p0 0.02825 ± 0.02772
pull
Entries 88
Mean 30.53
Std Dev 0
pull1D
Entries 88
Mean −0.07804
Std Dev 0.9881

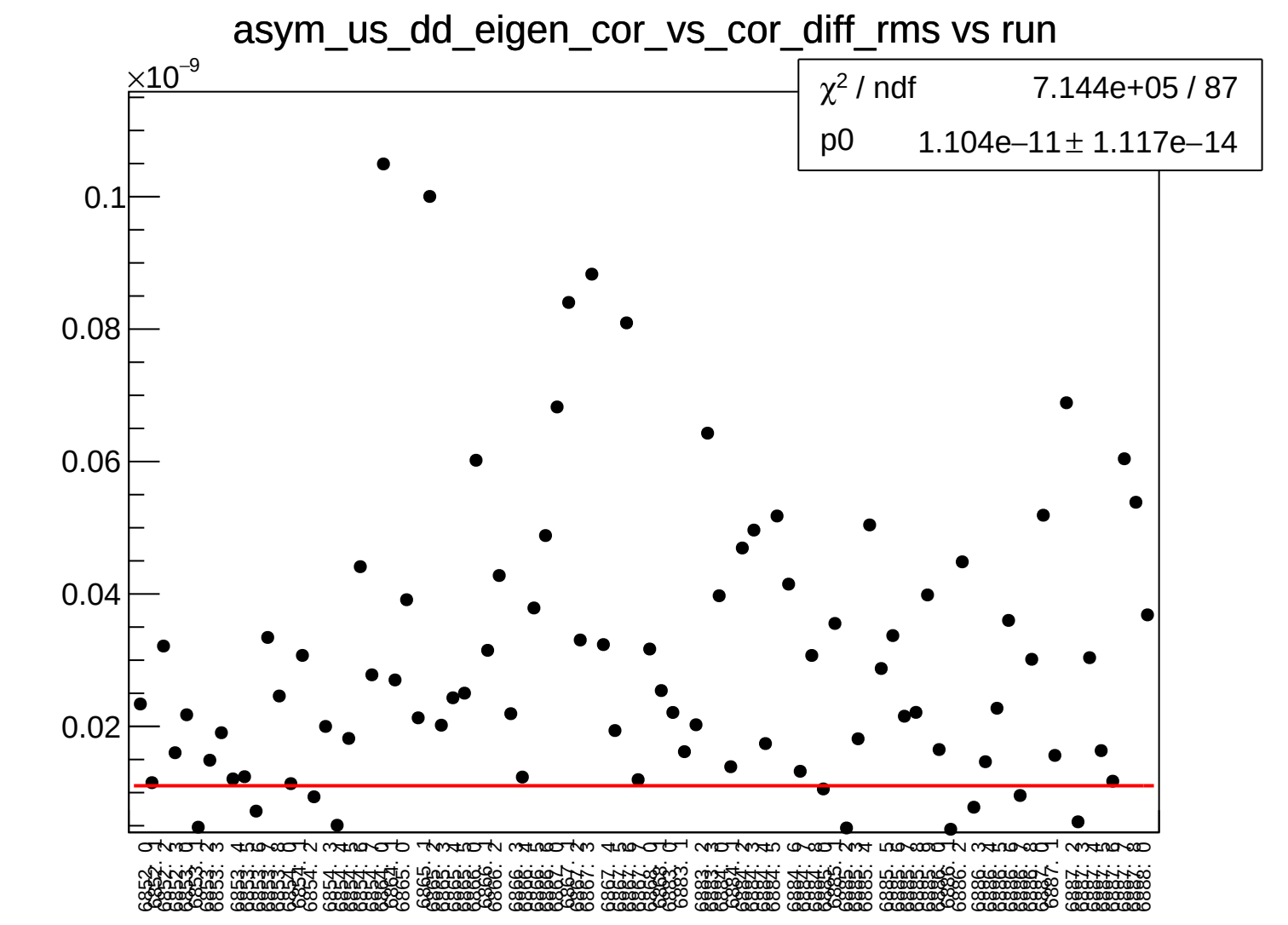

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.793e+05 / 87
p0 24.1 ± 0.0196
80
70
60
50
40
30
20
10

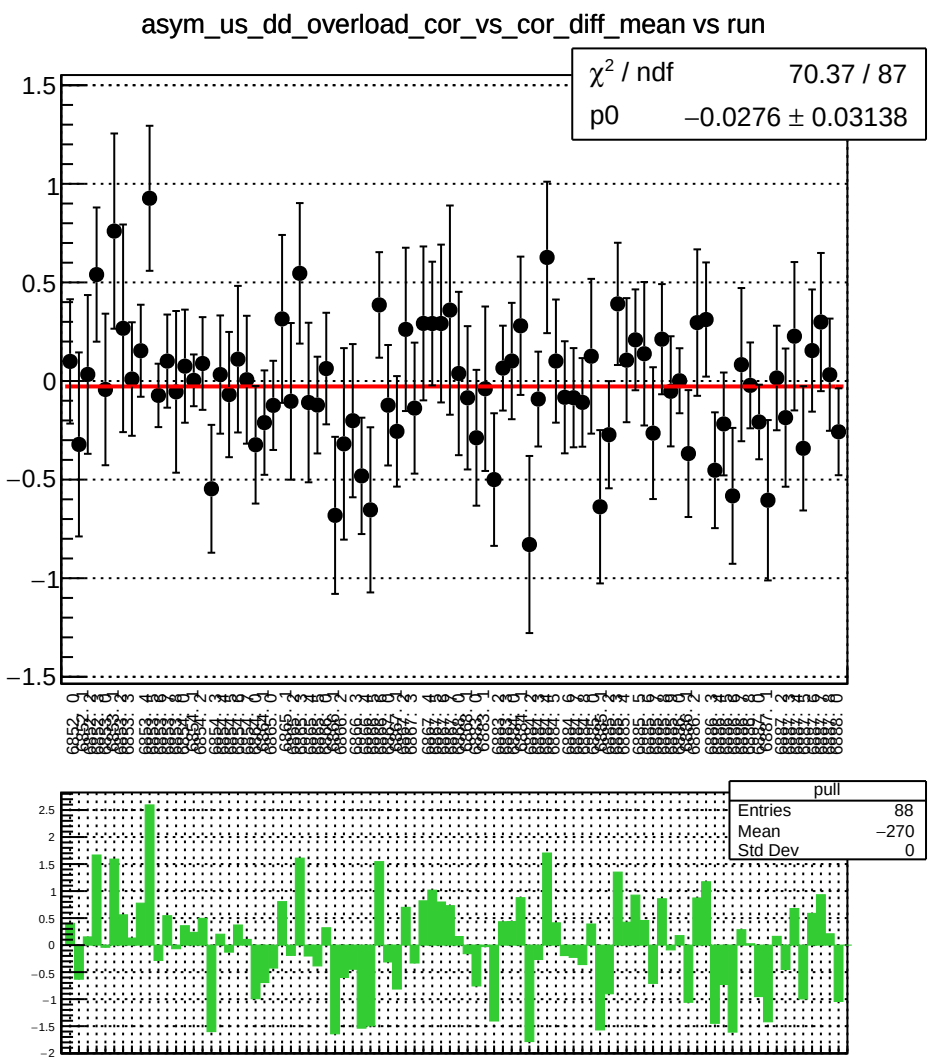

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 88.34 / 87
p0 0.03269 ± 0.04466
pull
Entries 88
Mean −68.09
Std Dev 0
pull1D
Entries 88
Mean −0.03427
Std Dev 1.001

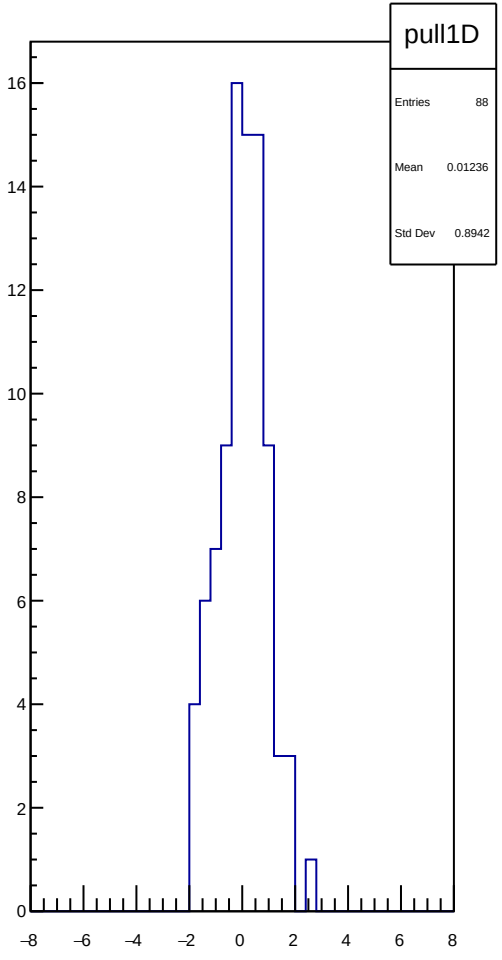

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 9.778e+04 / 87
p0 39.86 ± 0.03158
90
80
70
60
50
40
30
20

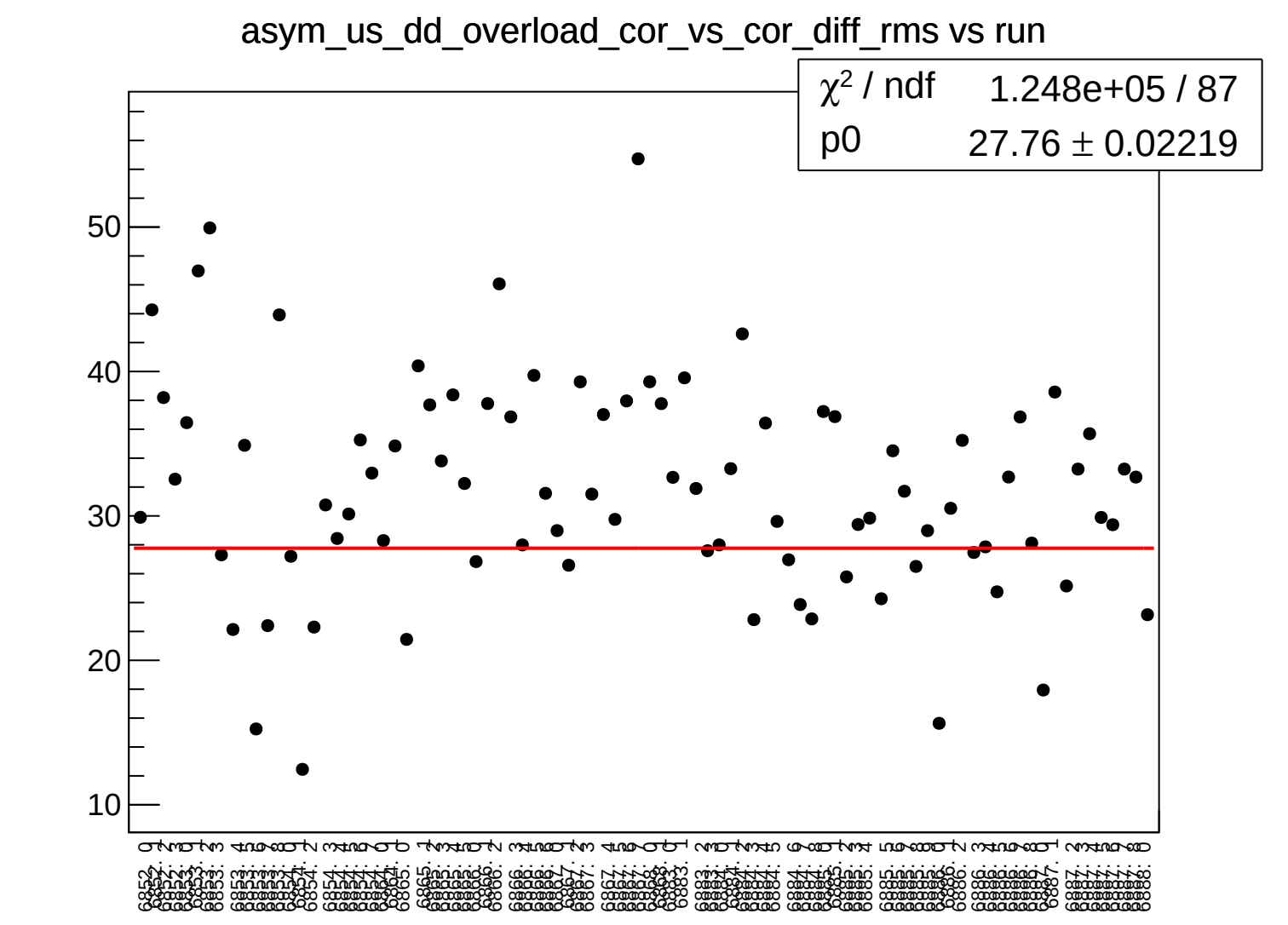

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.51 / 87
p0 −1.2e−14 ± 1.58e−14
pull
Entries 88
Mean 29.37
Std Dev 13.33

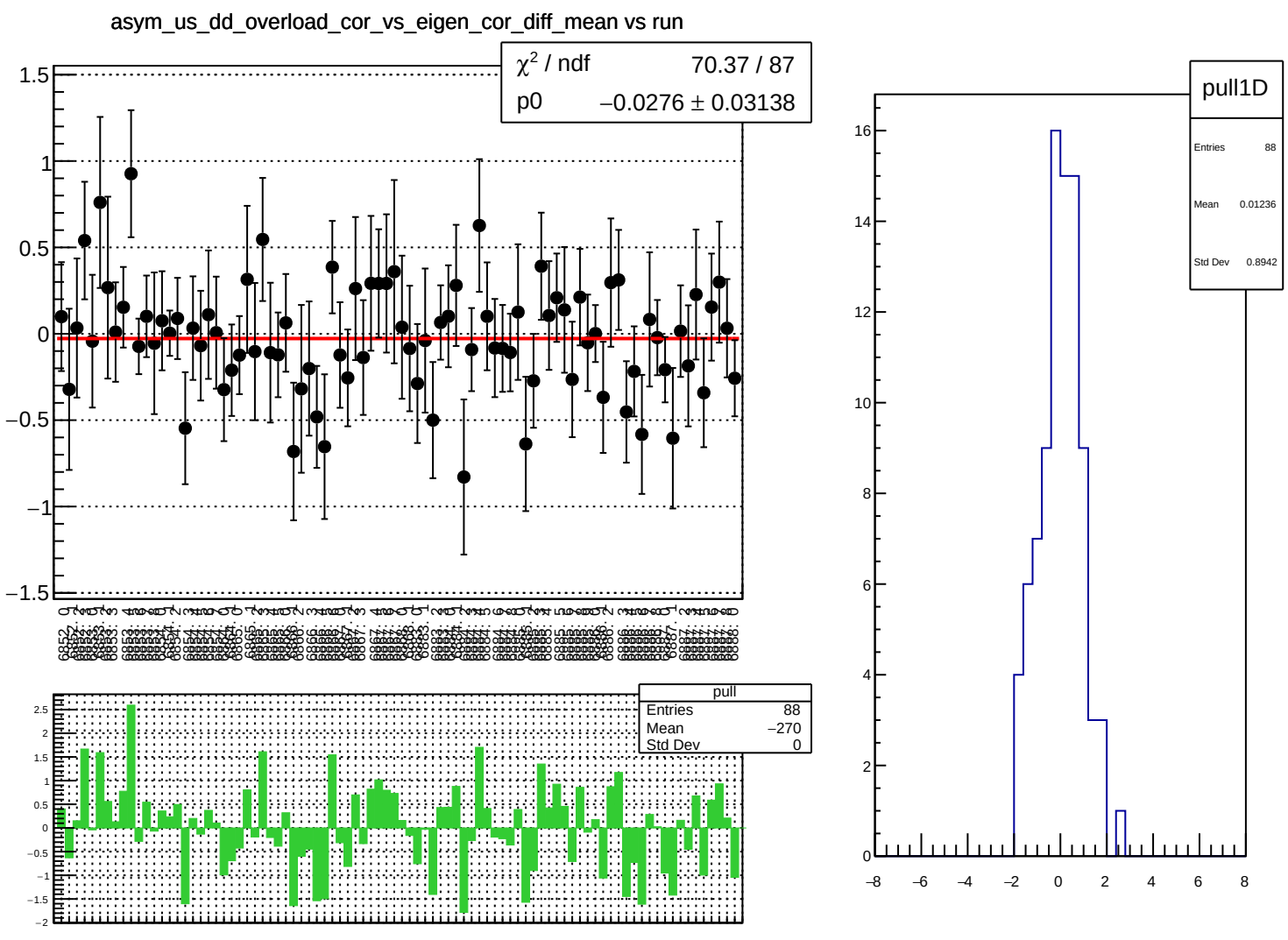

pull1D
Entries 88
Mean 0.09857
Std Dev 0.896

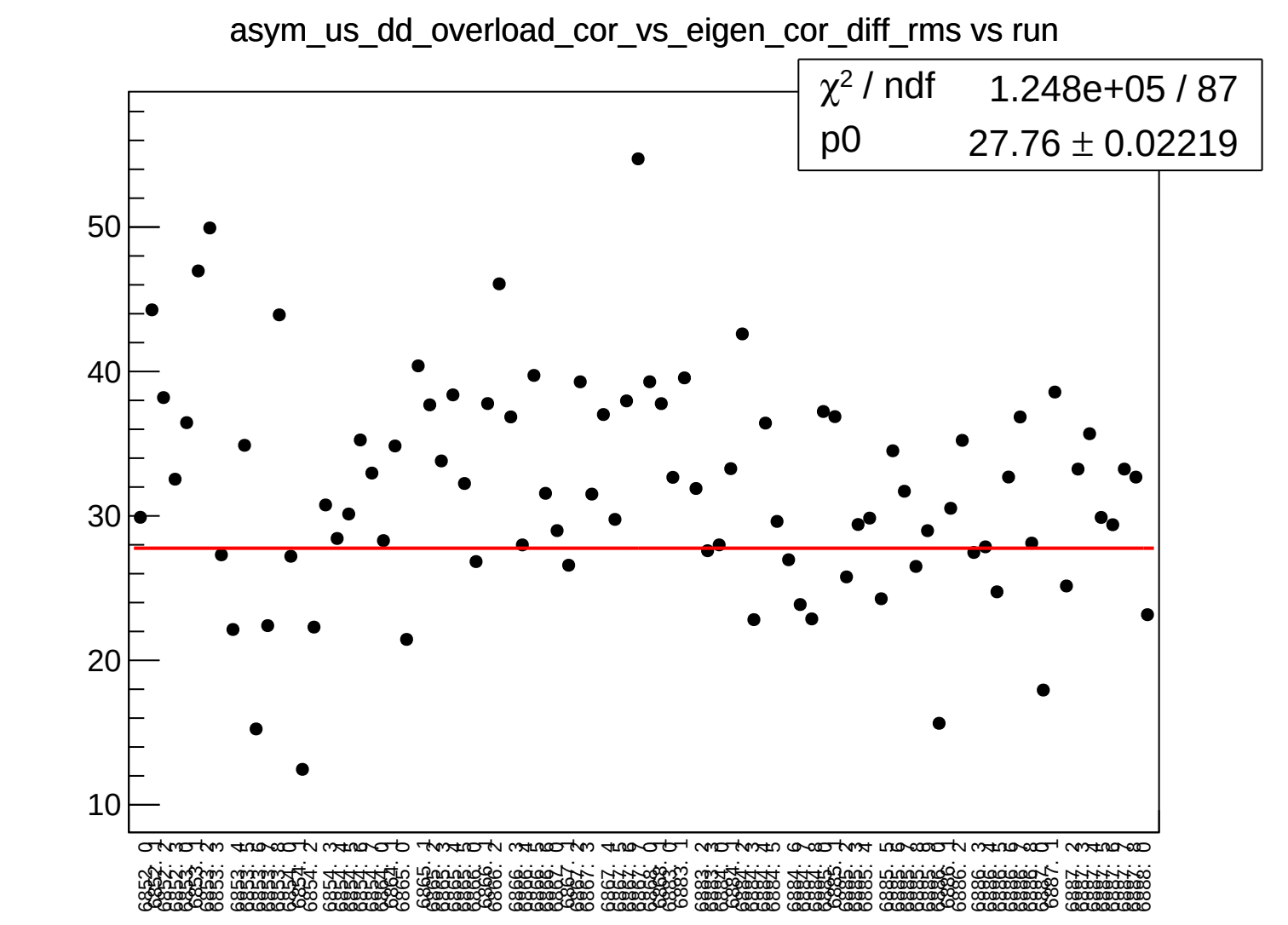

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.144e+05 / 87
p0 1.104e−11 ± 1.117e−14
0.1
0.08
0.06
0.04
0.02

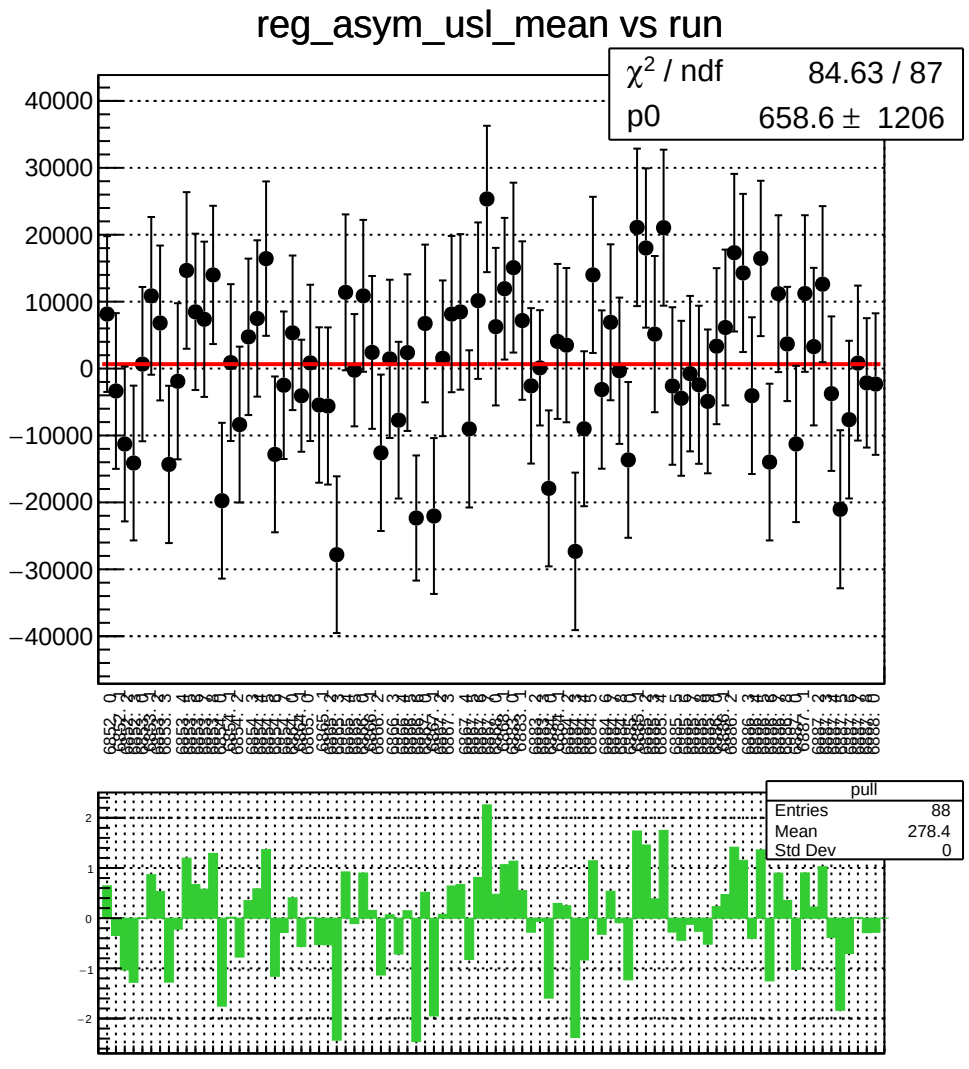

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 70.37 / 87
p0 −0.0276 ± 0.03138
pull
Entries 88
Mean −270
Std Dev 0

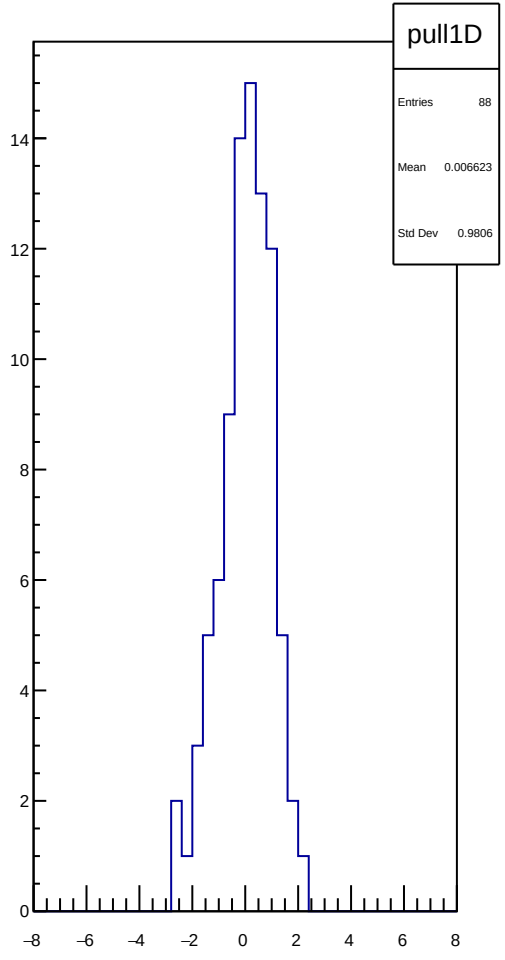

pull1D
Entries 88
Mean 0.01236
Std Dev 0.8942

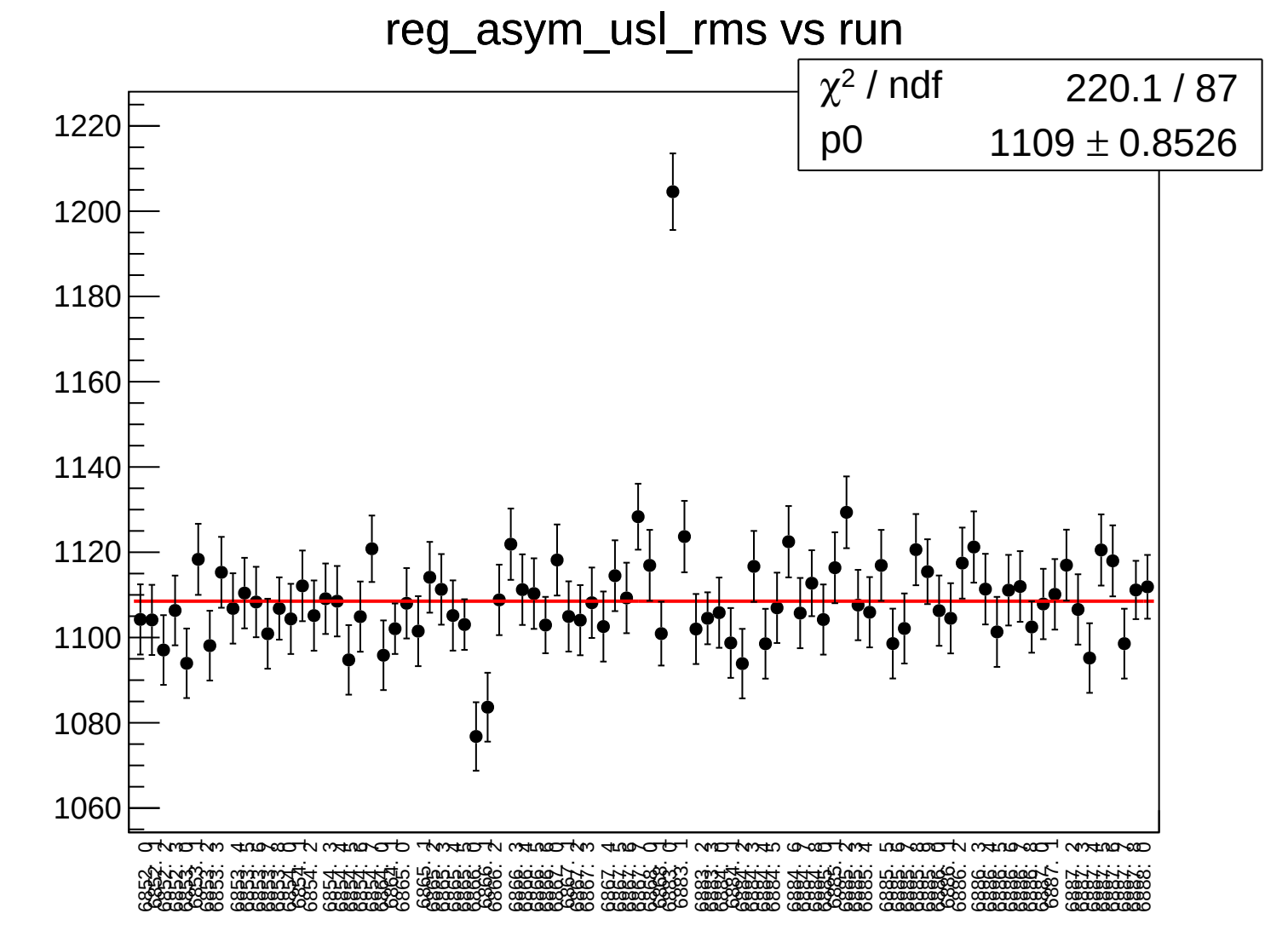

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 87
p0 27.76 ± 0.02219
50
40
30
20
10

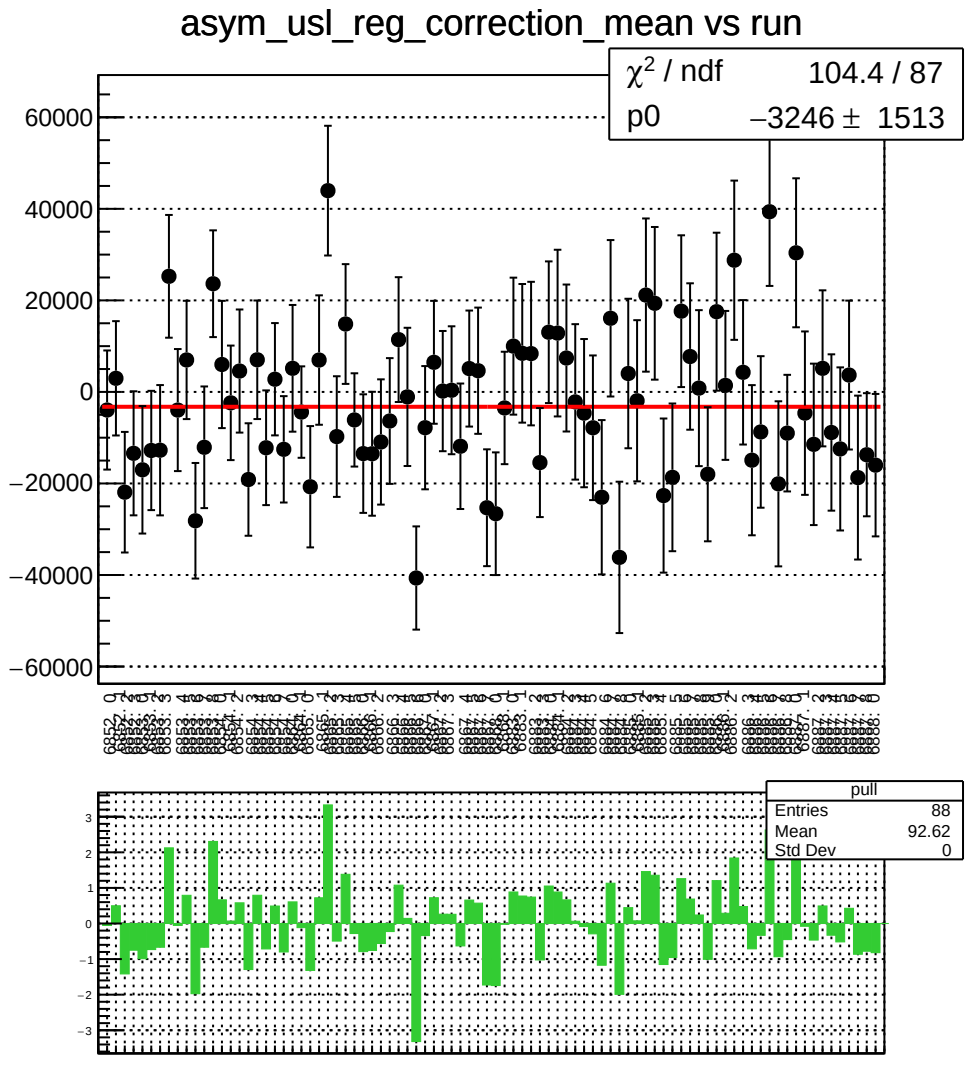

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.37 / 87
p0 −0.0276 ± 0.03138
pull
Entries 88
Mean −270
Std Dev 0
pull1D
Entries 88
Mean 0.01236
Std Dev 0.8942

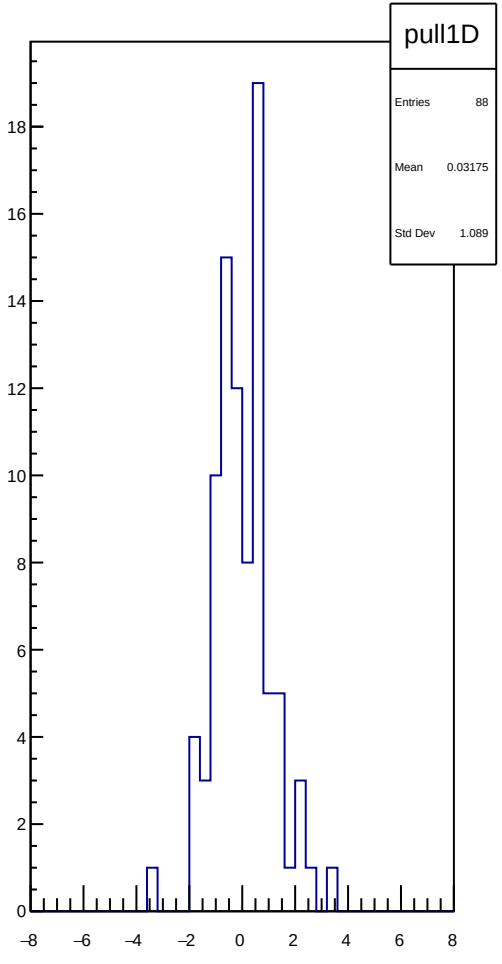

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 87
p0 27.76 ± 0.02219
50
40
30
20
10

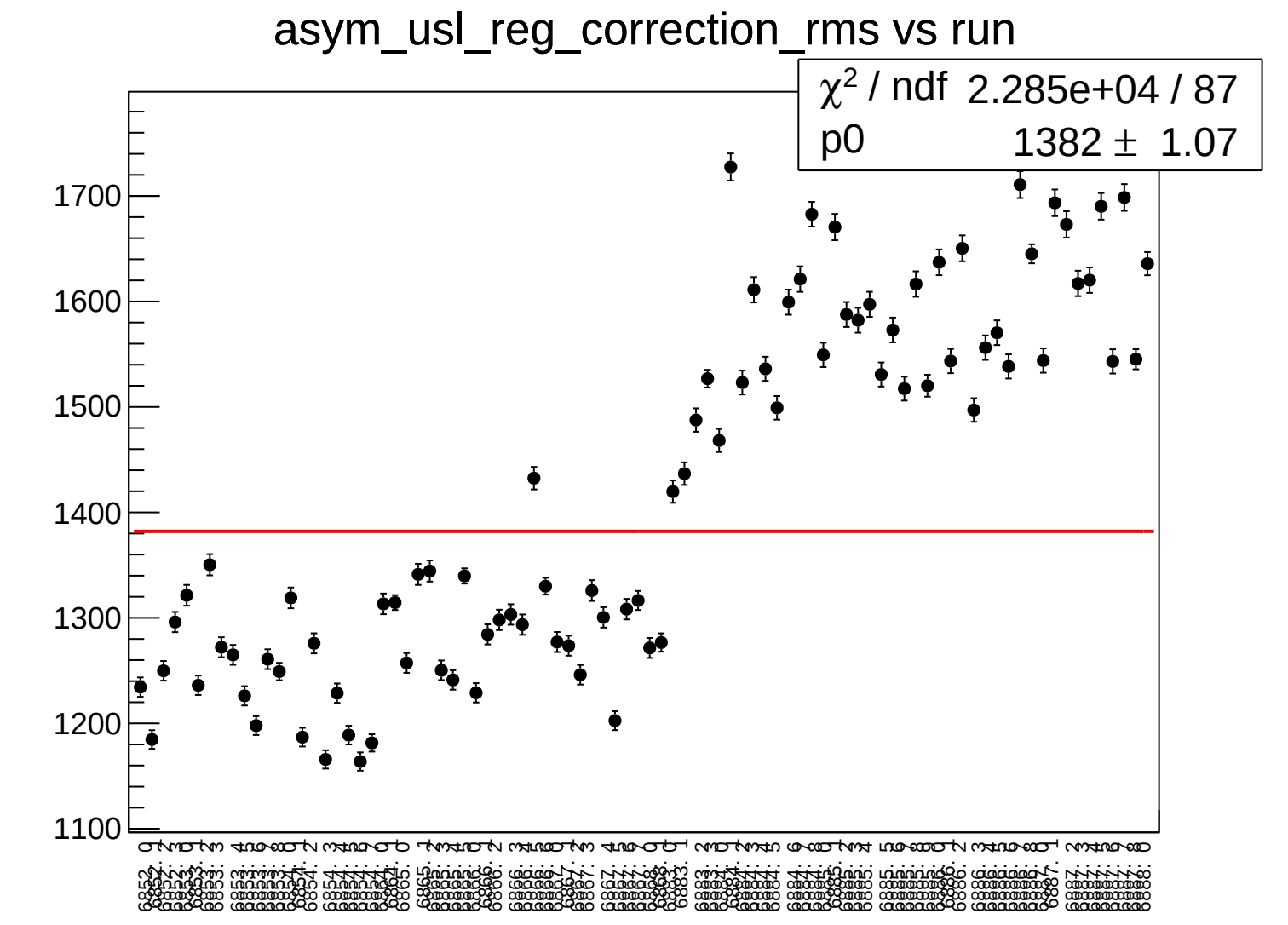

reg_asym_usl_mean vs run
χ² / ndf 84.63 / 87
p0 658.6 ± 1206
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 278.4
Std Dev 0
2
1
0
−1
−2

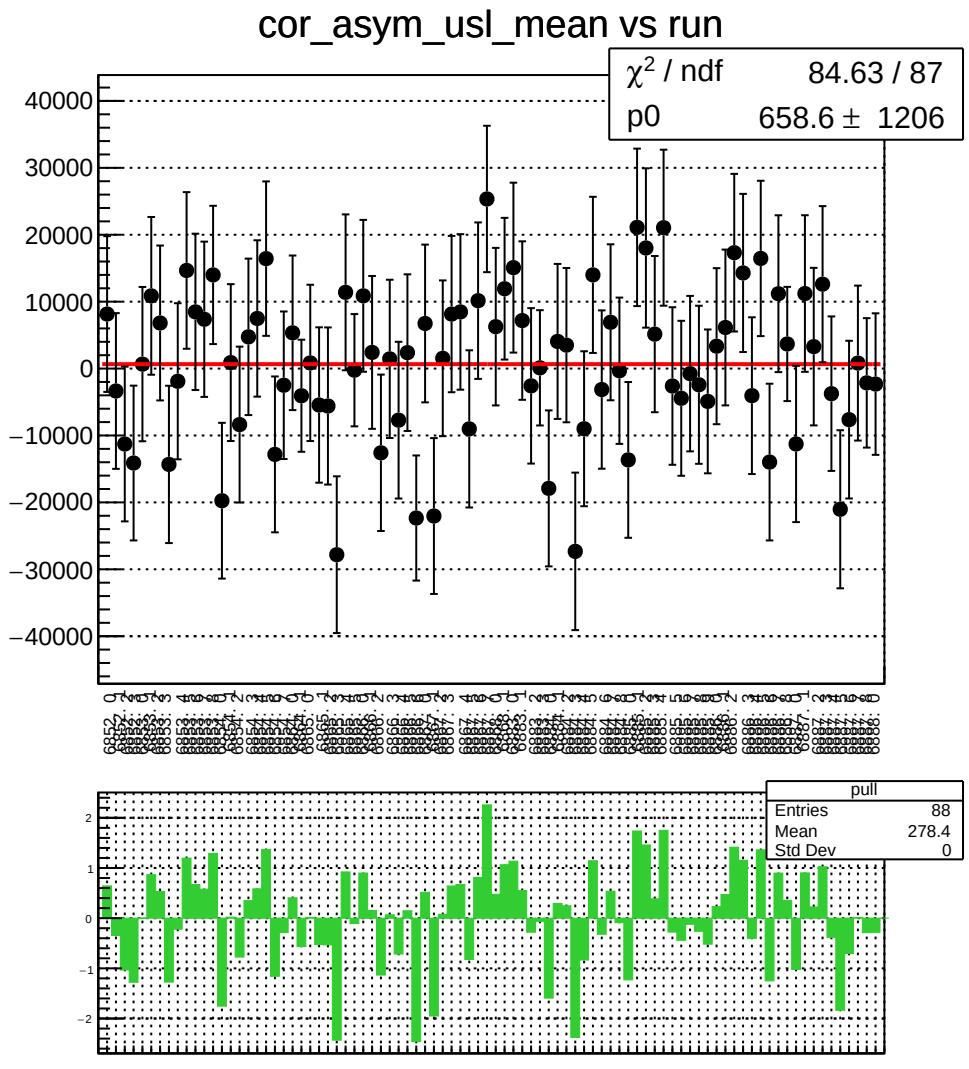

pull1D
Entries 88
Mean 0.006623
Std Dev 0.9806
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

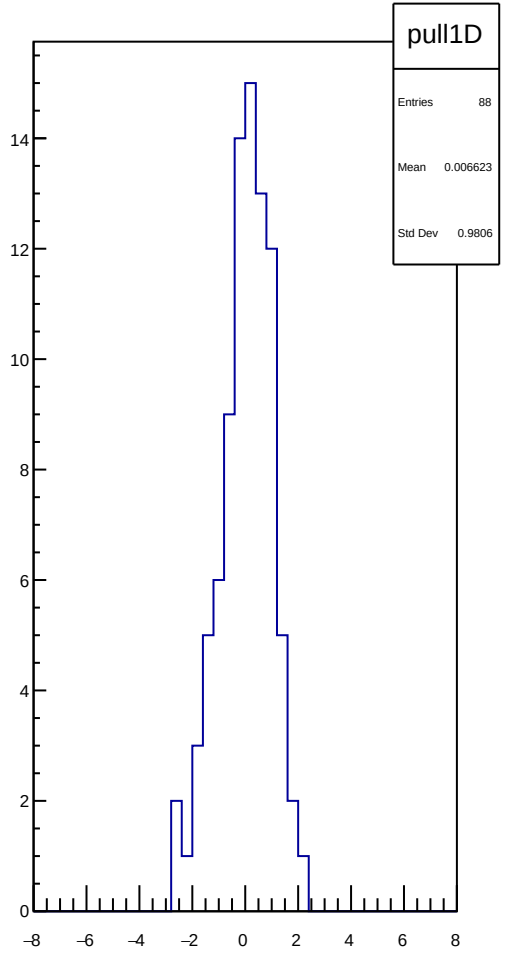

reg_asym_usl_rms vs run
χ² / ndf 220.1 / 87
p0 1109 ± 0.8526
1220
1200
1180
1160
1140
1120
1100
1080
1060

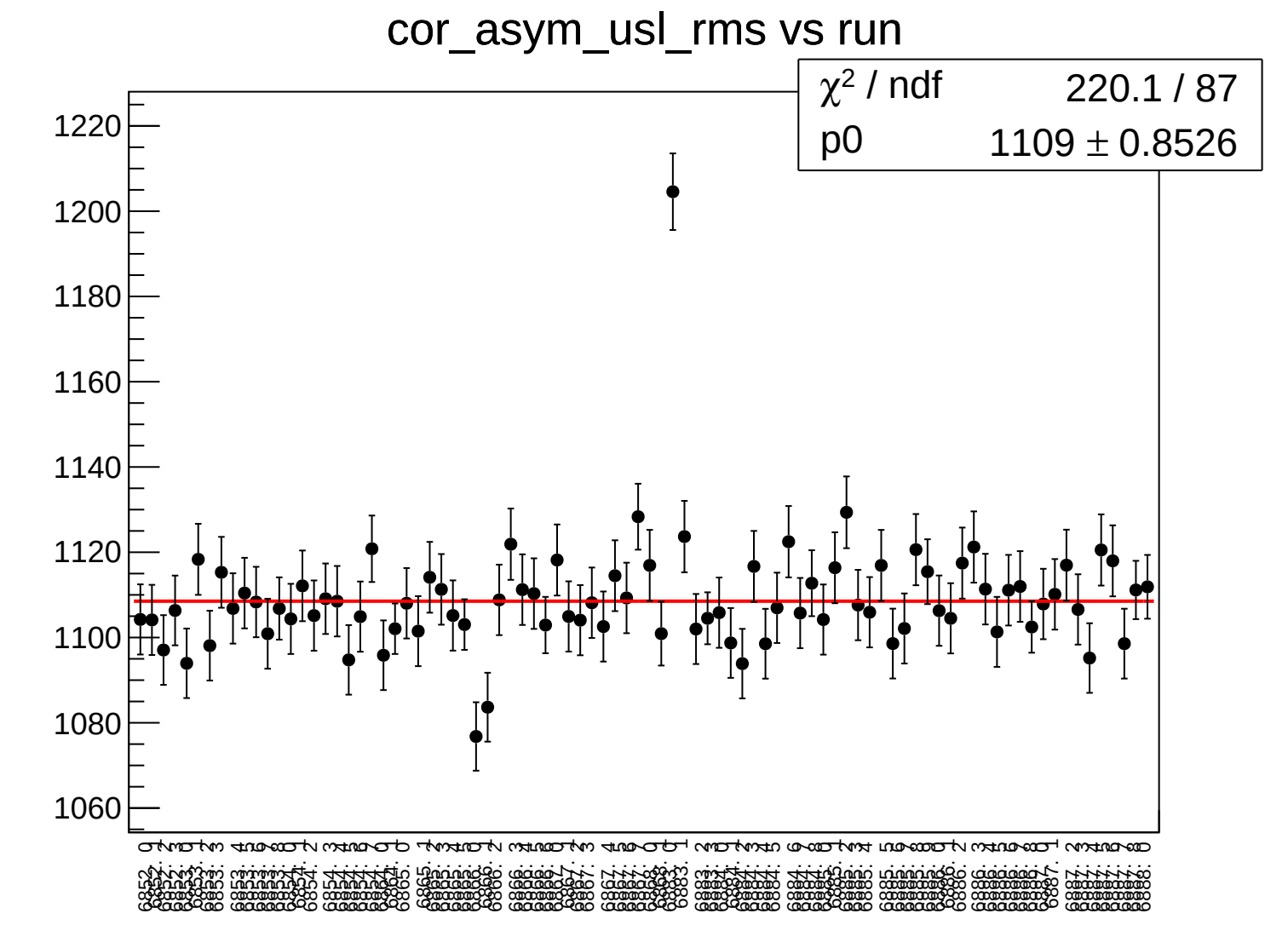

asym_usl_reg_correction_mean vs run
χ² / ndf 104.4 / 87
p0 −3246 ± 1513
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 92.62
Std Dev 0
3
2
1
0
−1
−2
−3

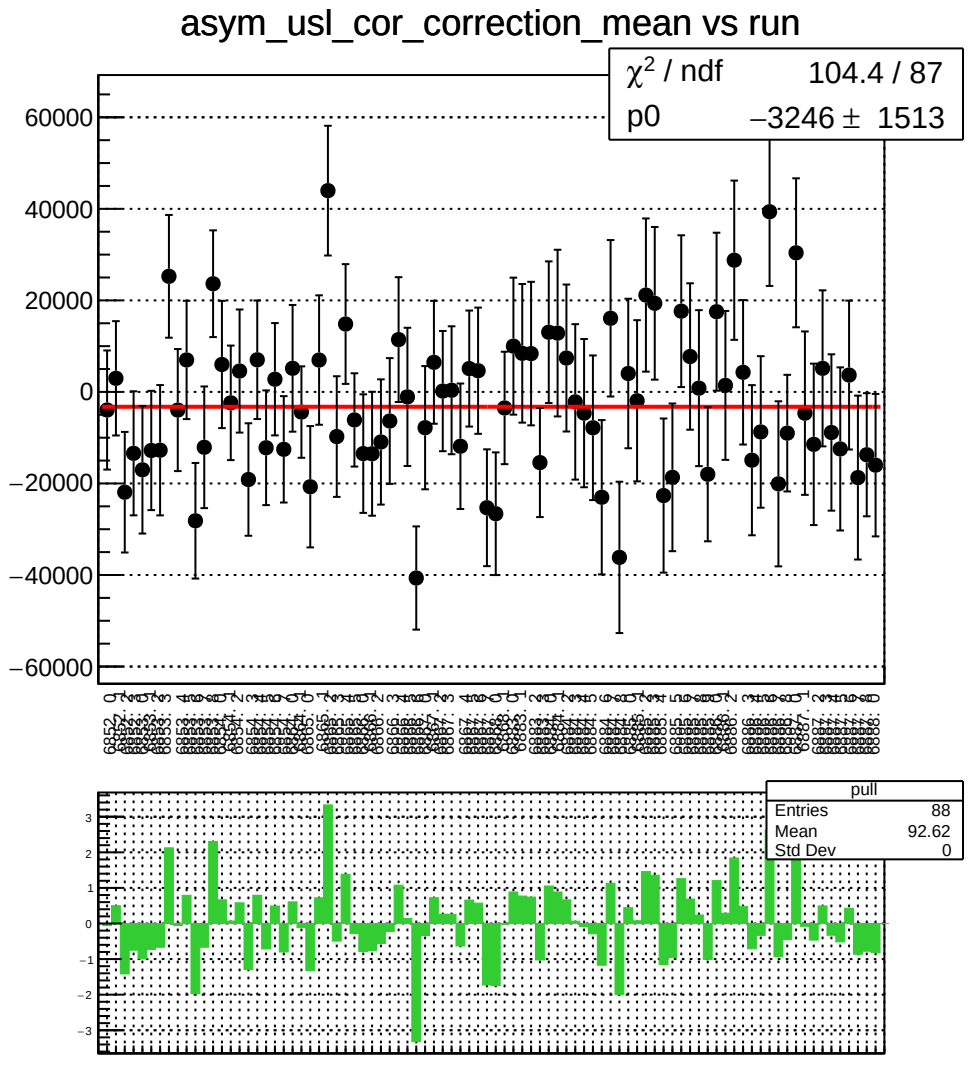

pull1D
Entries 88
Mean 0.03175
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

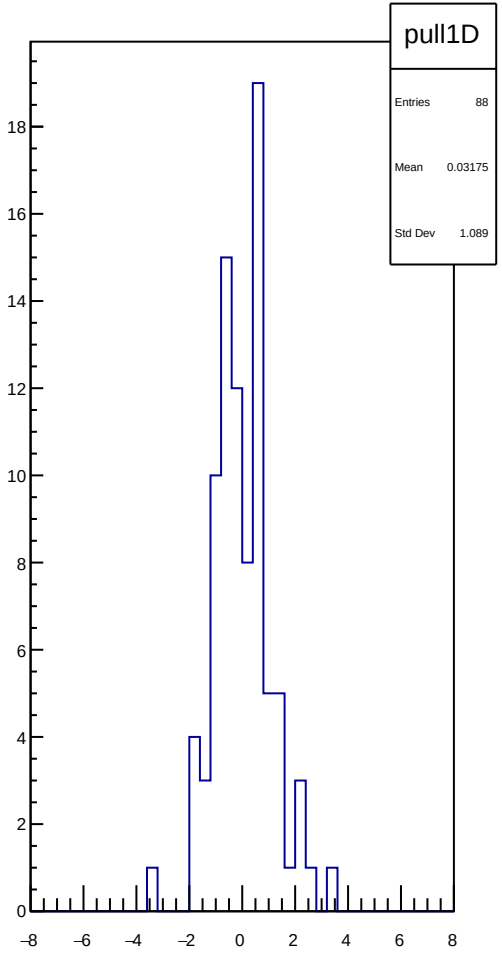

asym_usl_reg_correction_rms vs run
χ² / ndf 2.285e+04 / 87
p0 1382 ± 1.07
1700
1600
1500
1400
1300
1200
1100

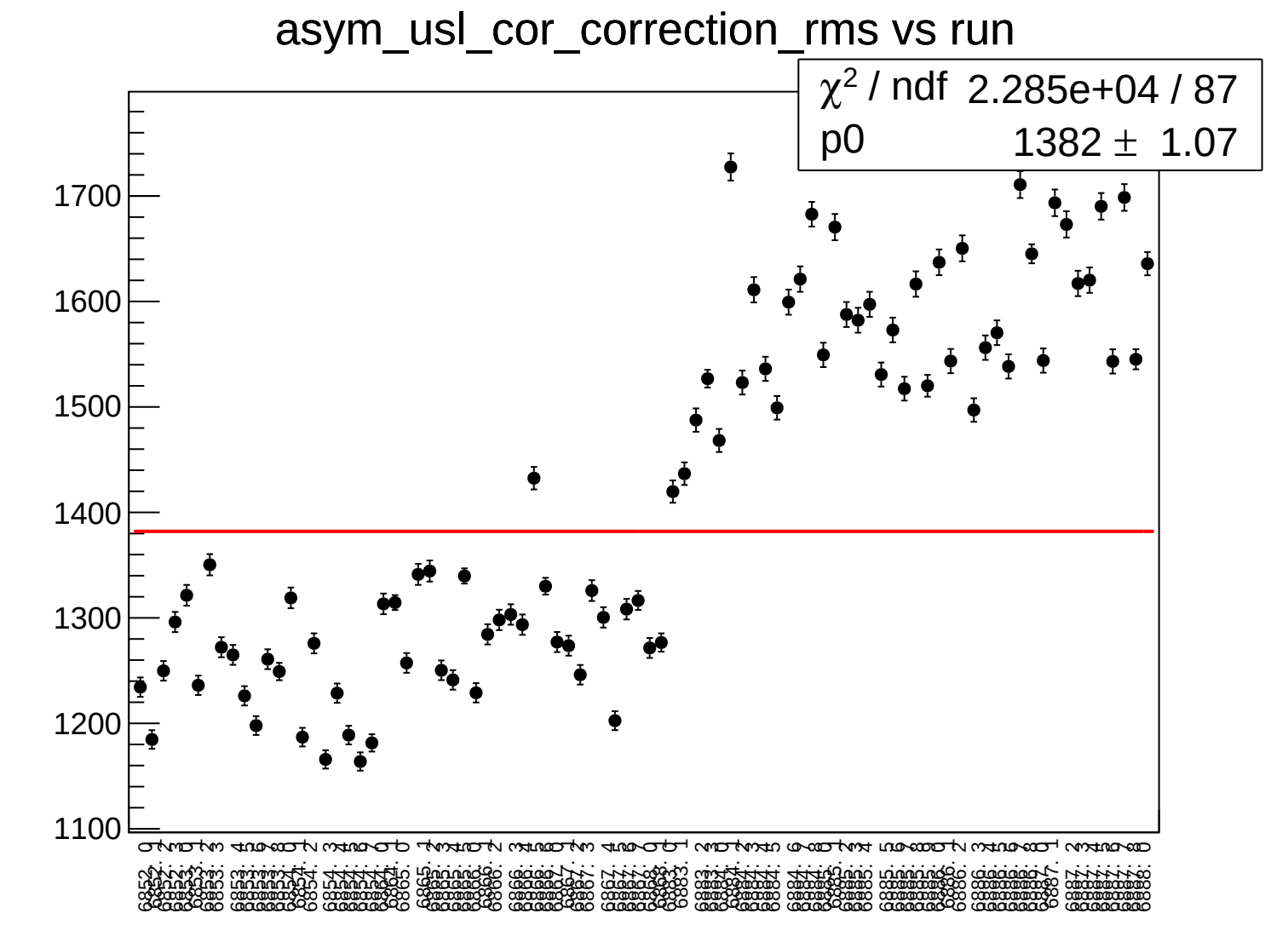

cor_asym_usl_mean vs run
χ² / ndf 84.63 / 87
p0 658.6 ± 1206
pull
Entries 88
Mean 278.4
Std Dev 0

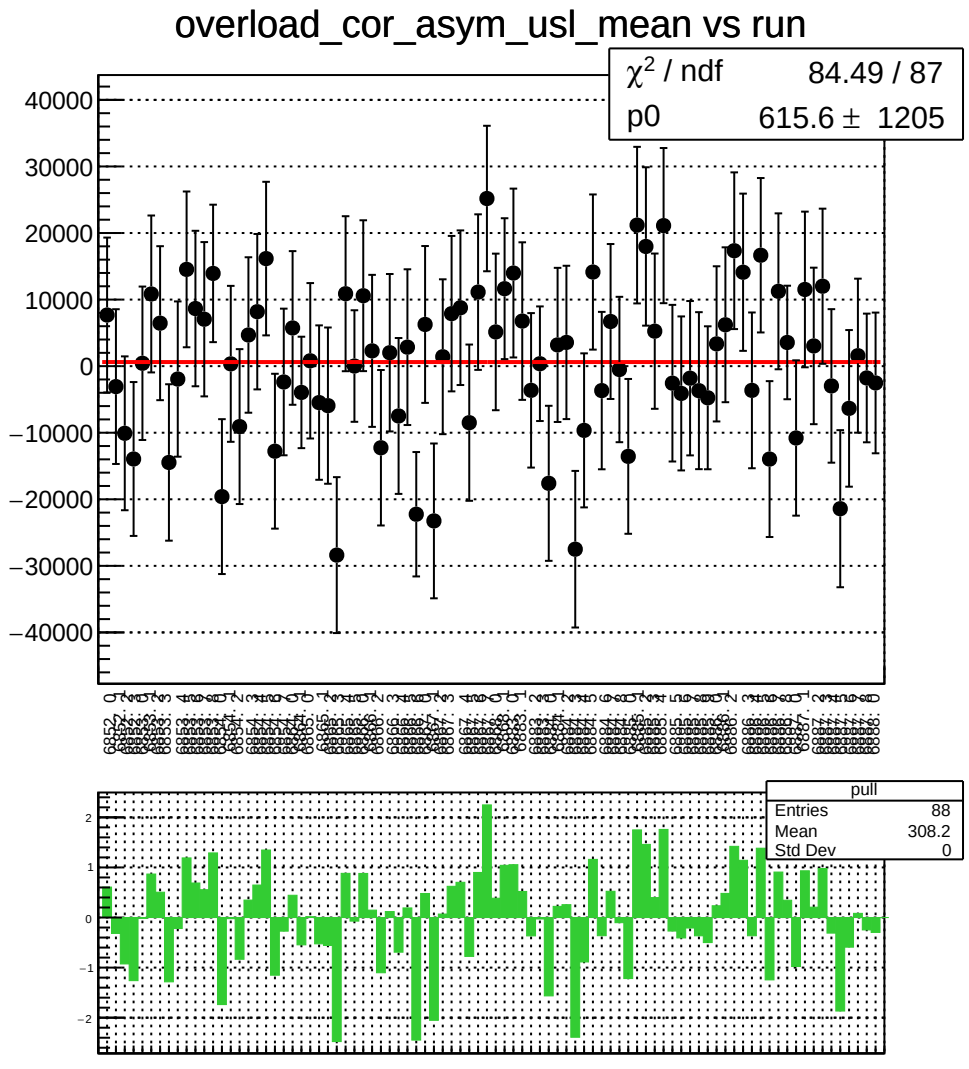

pull1D
Entries 88
Mean 0.006623
Std Dev 0.9806

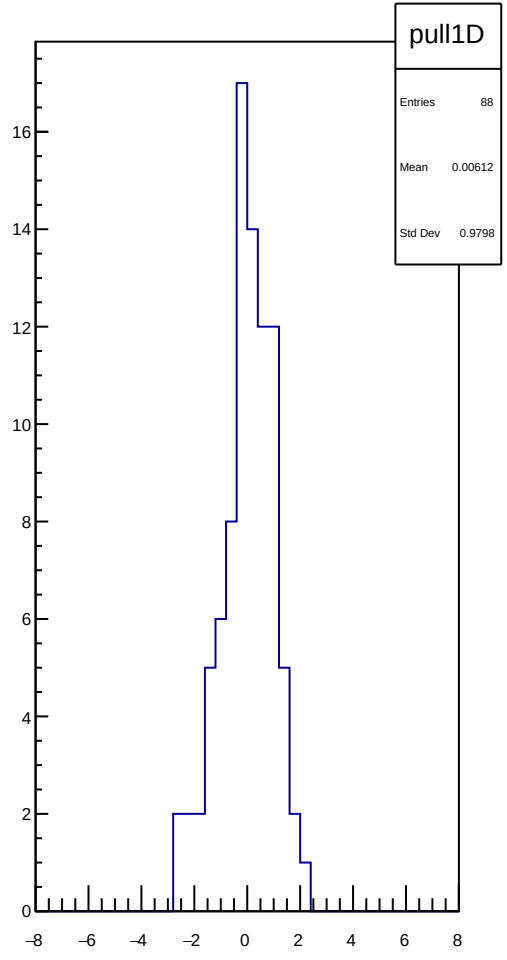

cor_asym_usl_rms vs run
χ² / ndf 220.1 / 87
p0 1109 ± 0.8526
1220
1200
1180
1160
1140
1120
1100
1080
1060

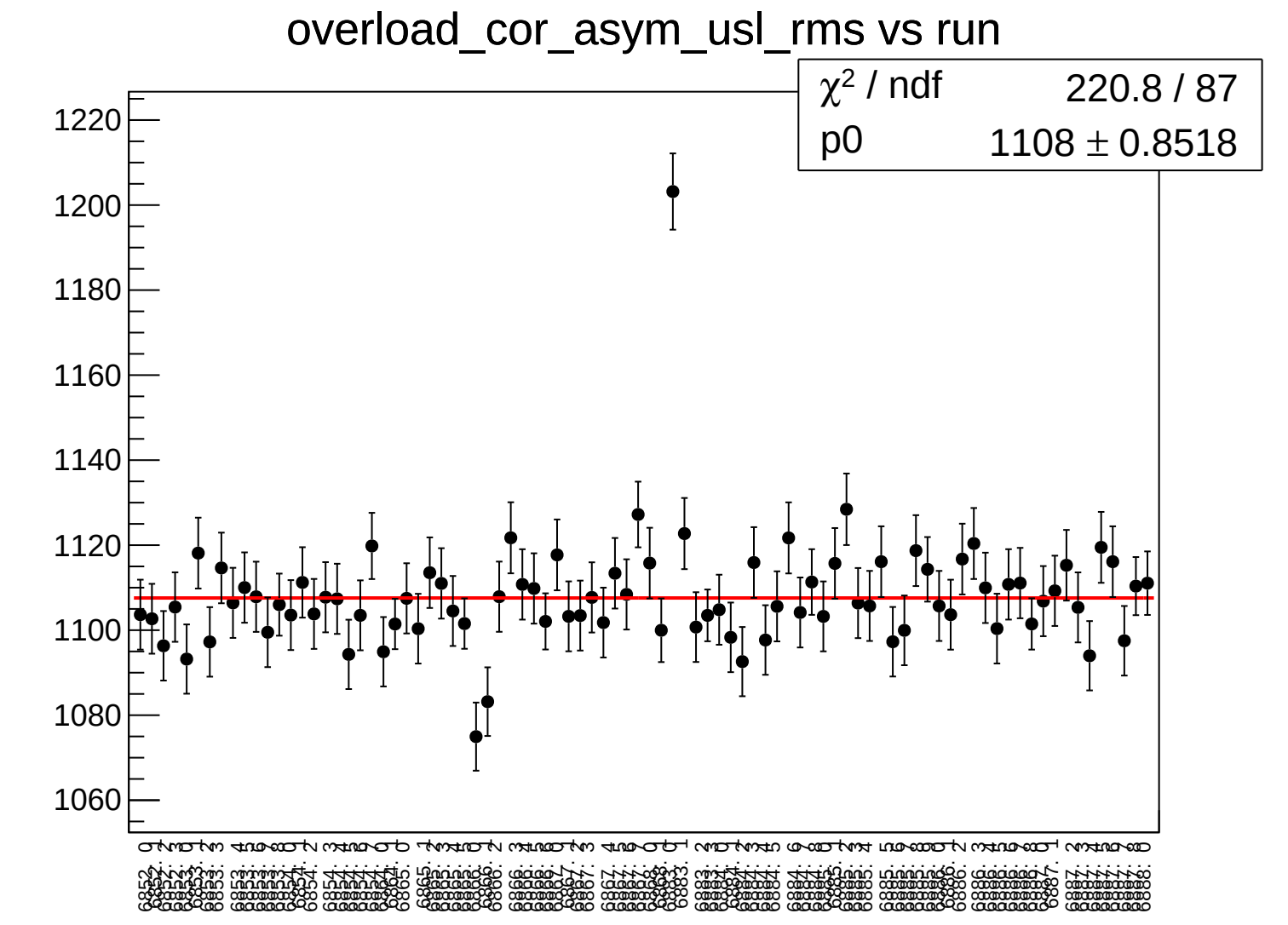

asym_usl_cor_correction_mean vs run
χ² / ndf 104.4 / 87
p0 −3246 ± 1513
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 92.62
Std Dev 0
3
2
1
0
−1
−2
−3

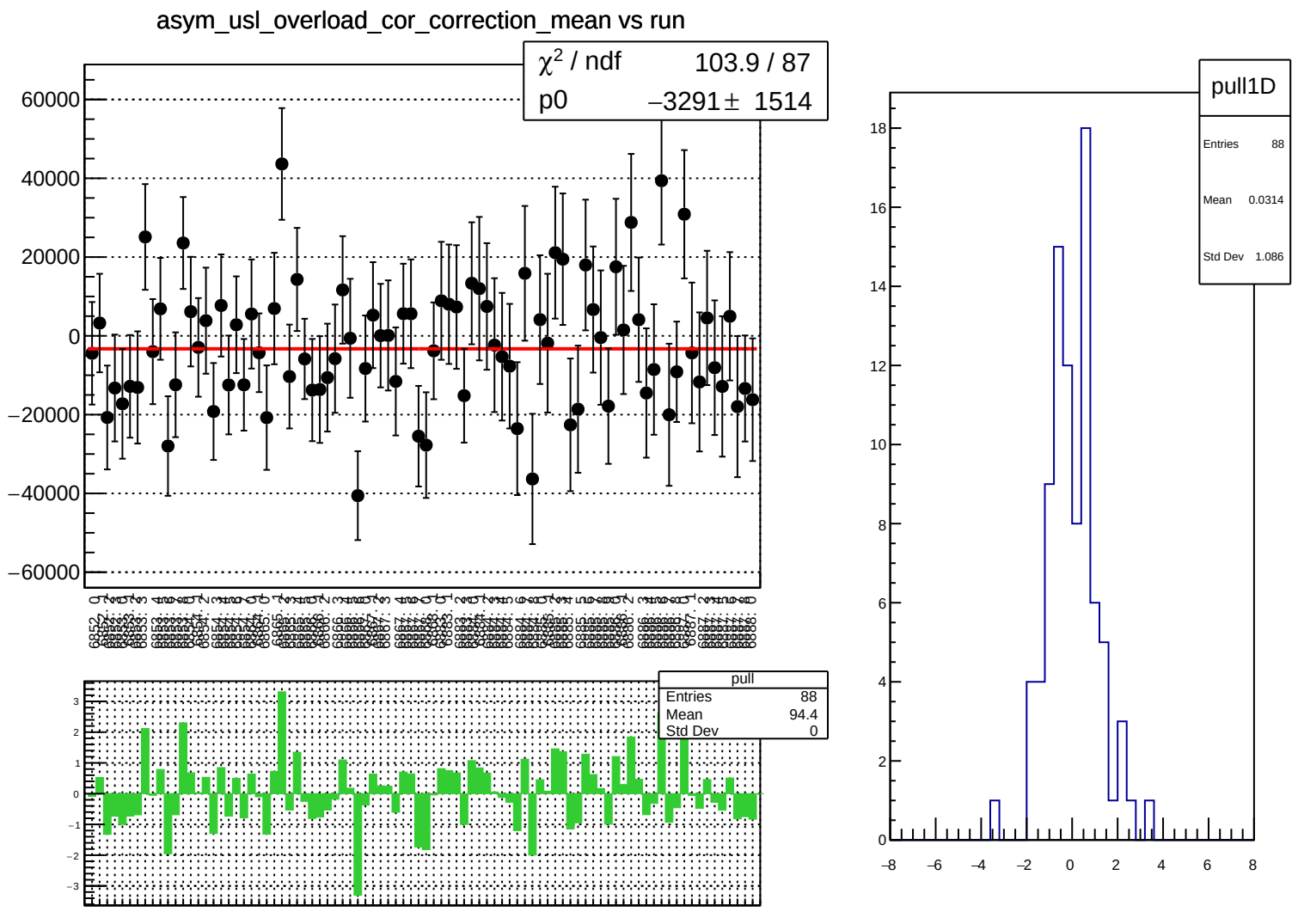

pull1D
Entries 88
Mean 0.03175
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

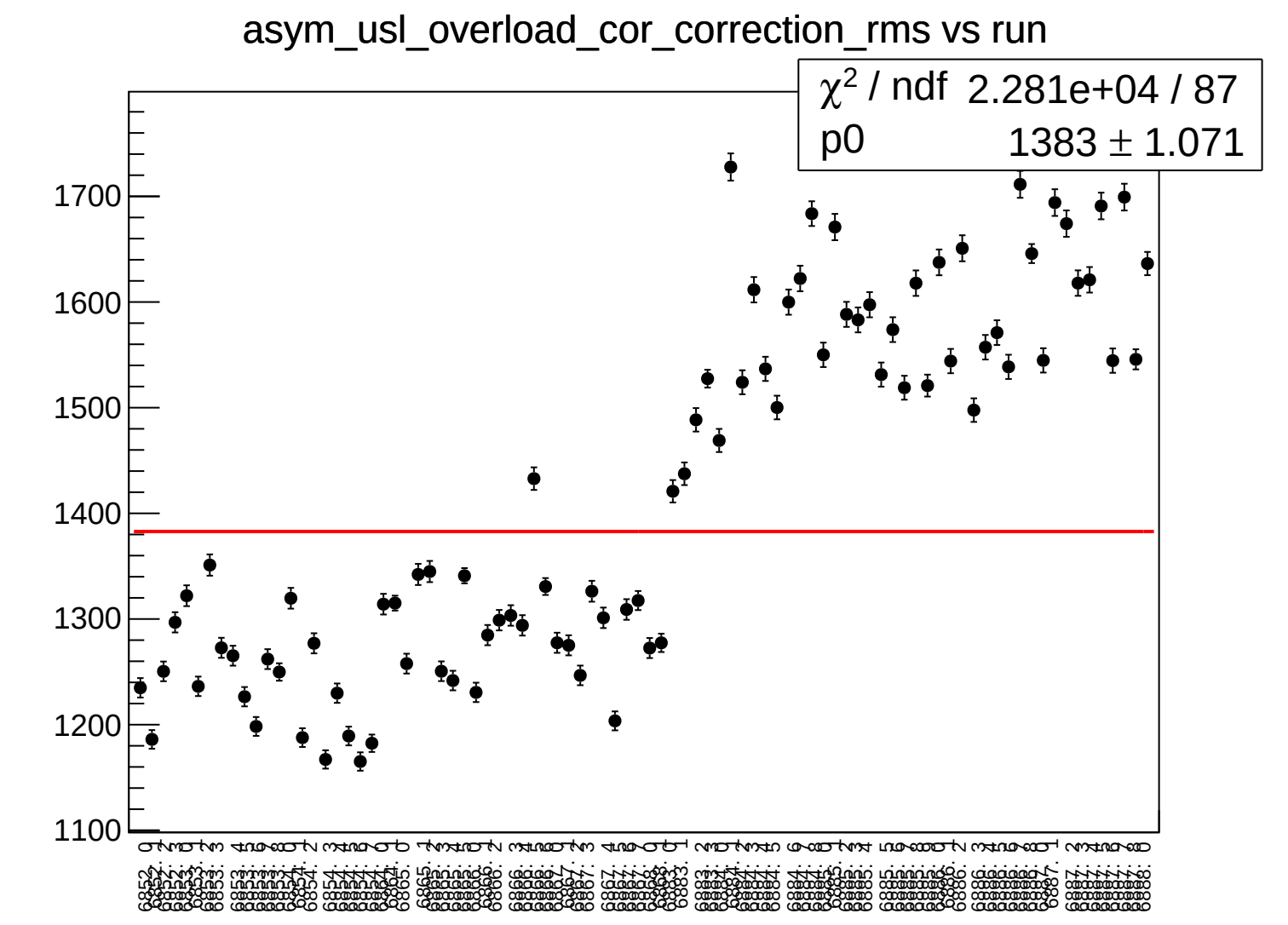

asym_usl_cor_correction_rms vs run
χ² / ndf 2.285e+04 / 87
p0 1382 ± 1.07
1700
1600
1500
1400
1300
1200
1100

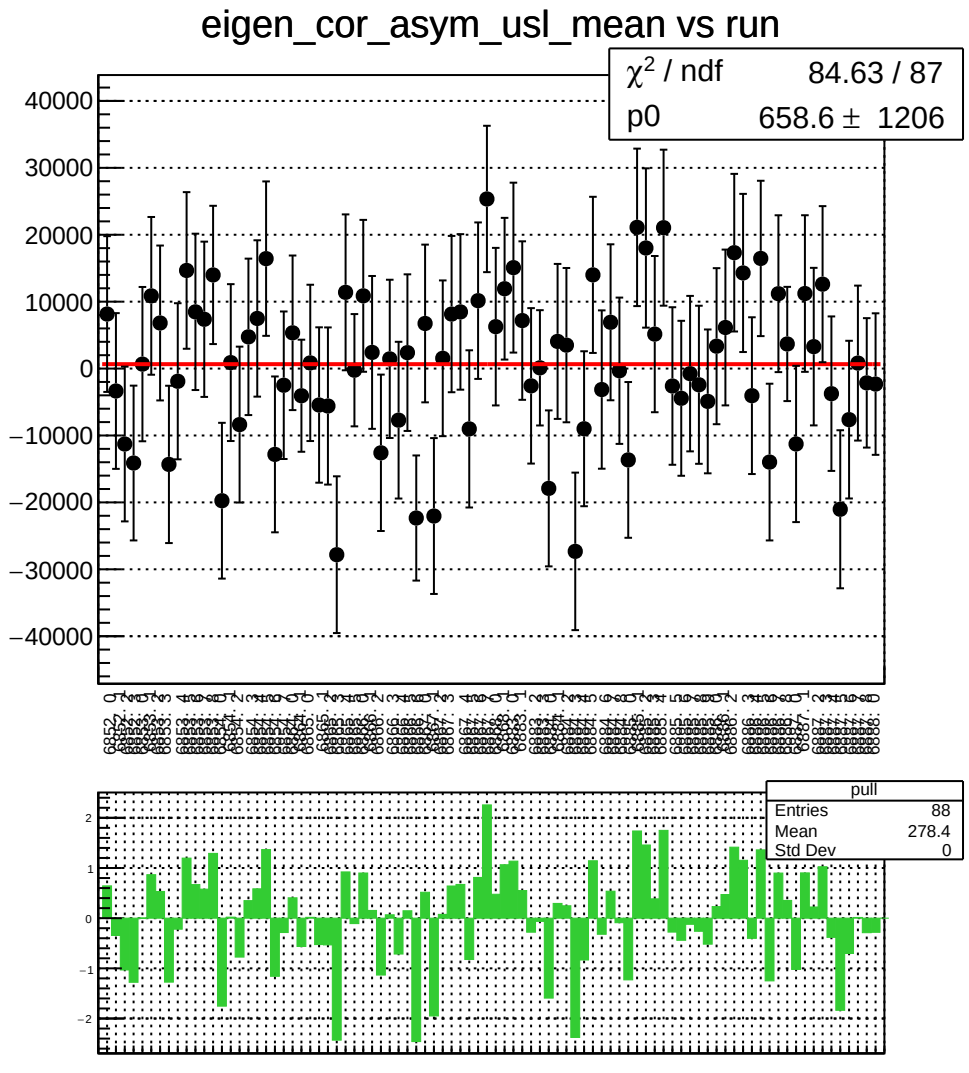

overload_cor_asym_usl_mean vs run
χ² / ndf 84.49 / 87
p0 615.6 ± 1205
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 308.2
Std Dev 0
2
1
0
−1
−2

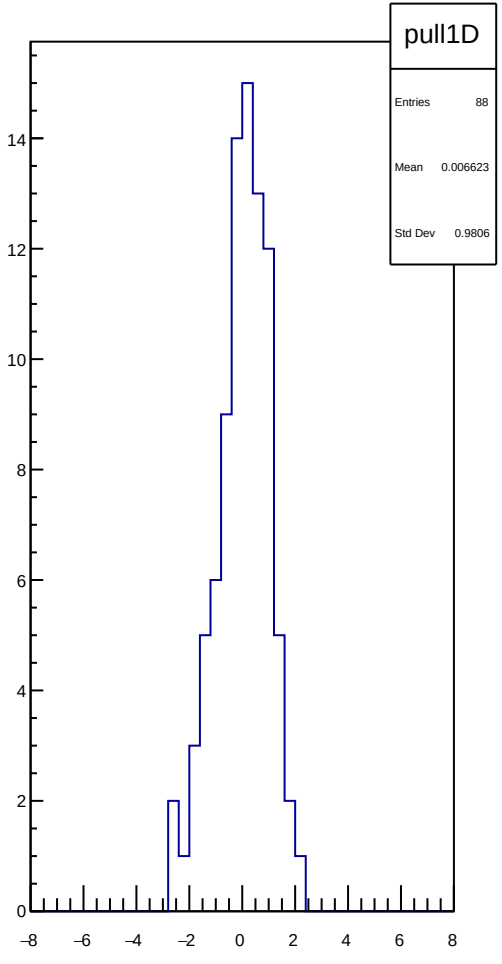

pull1D
Entries 88
Mean 0.00612
Std Dev 0.9798
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

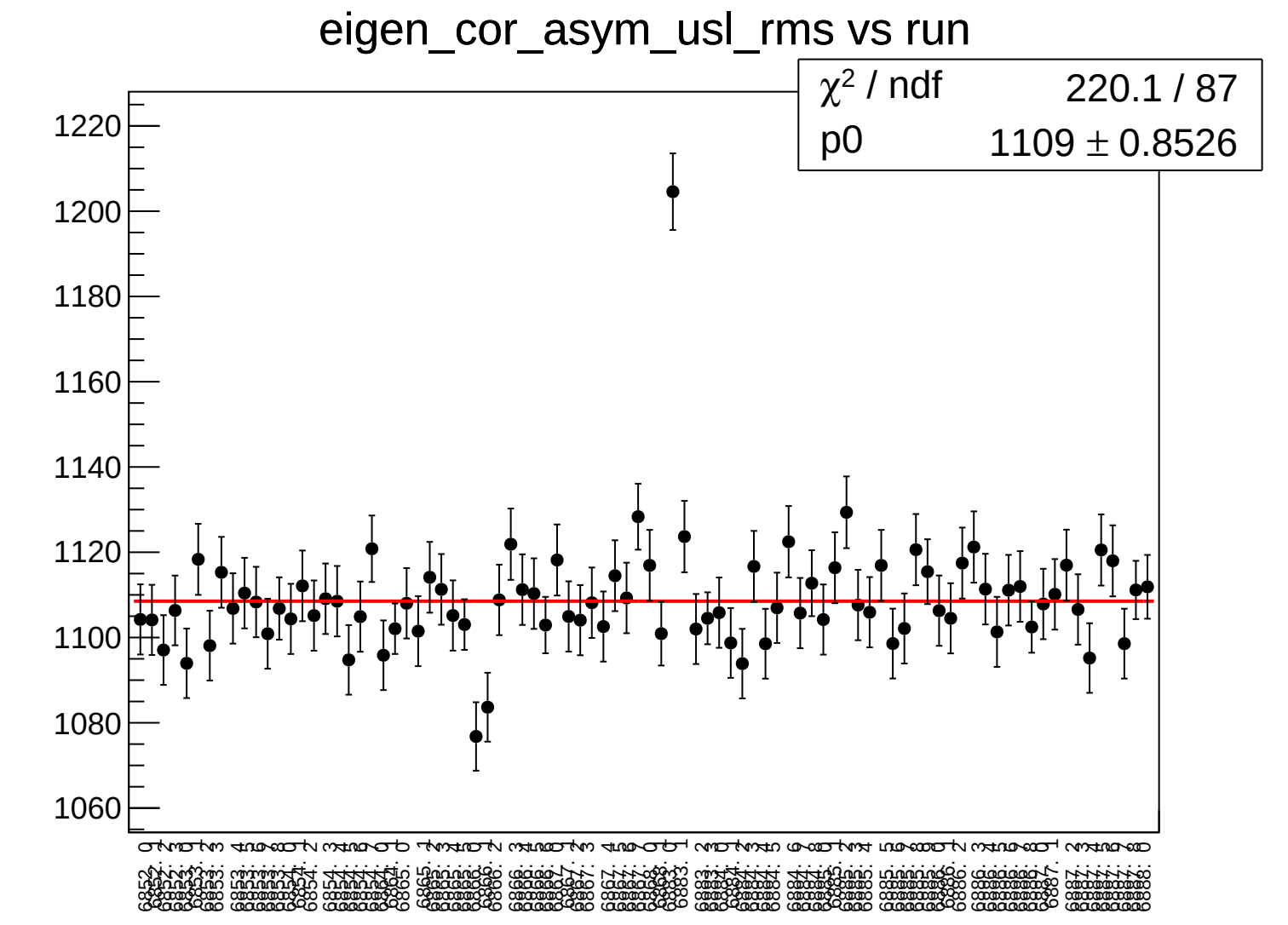

overload_cor_asym_usl_rms vs run
χ² / ndf 220.8 / 87
p0 1108 ± 0.8518
1220
1200
1180
1160
1140
1120
1100
1080
1060

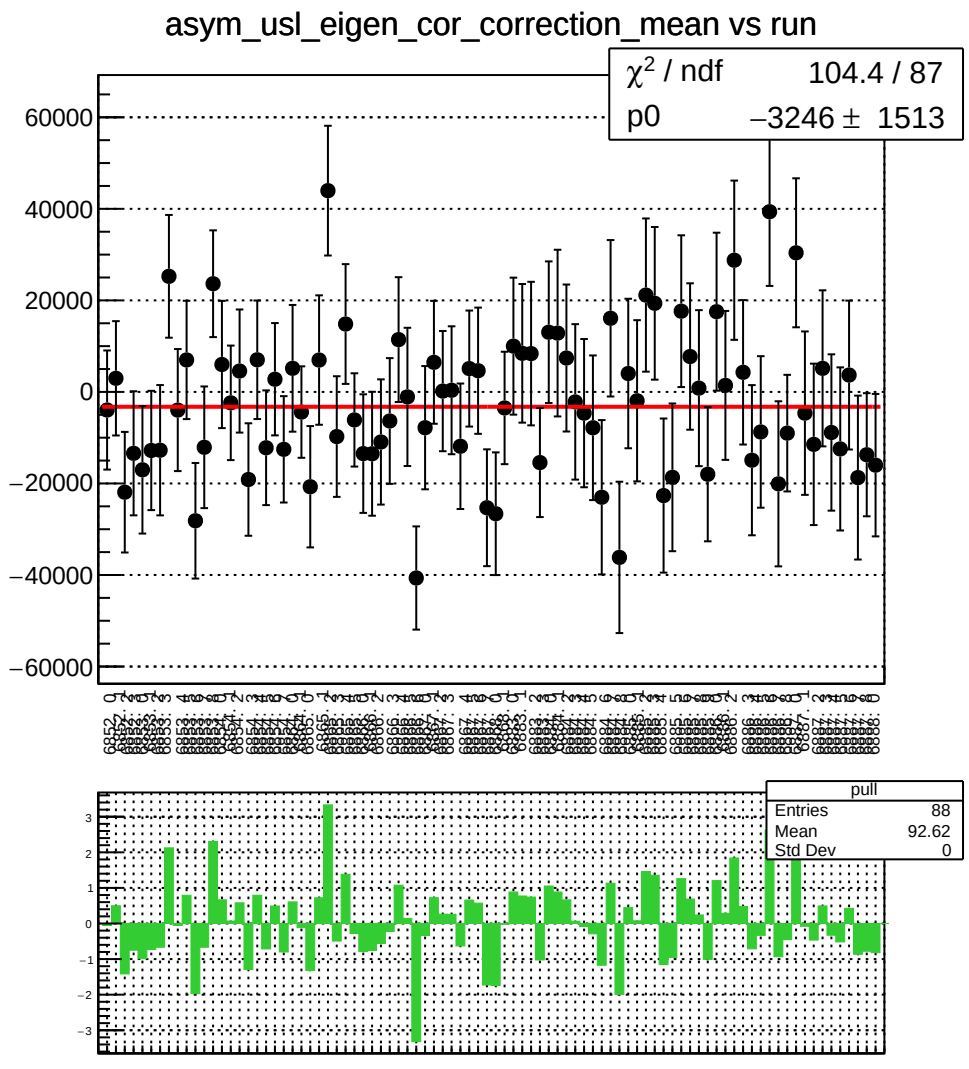

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 103.9 / 87
p0 −3291 ± 1514
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 94.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0314
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

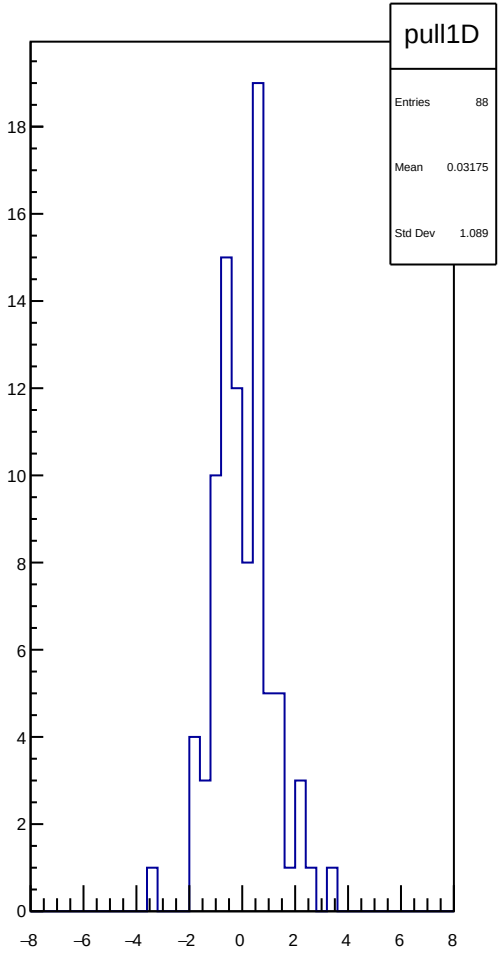

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 2.281e+04 / 87
p0 1383 ± 1.071
1700
1600
1500
1400
1300
1200
1100

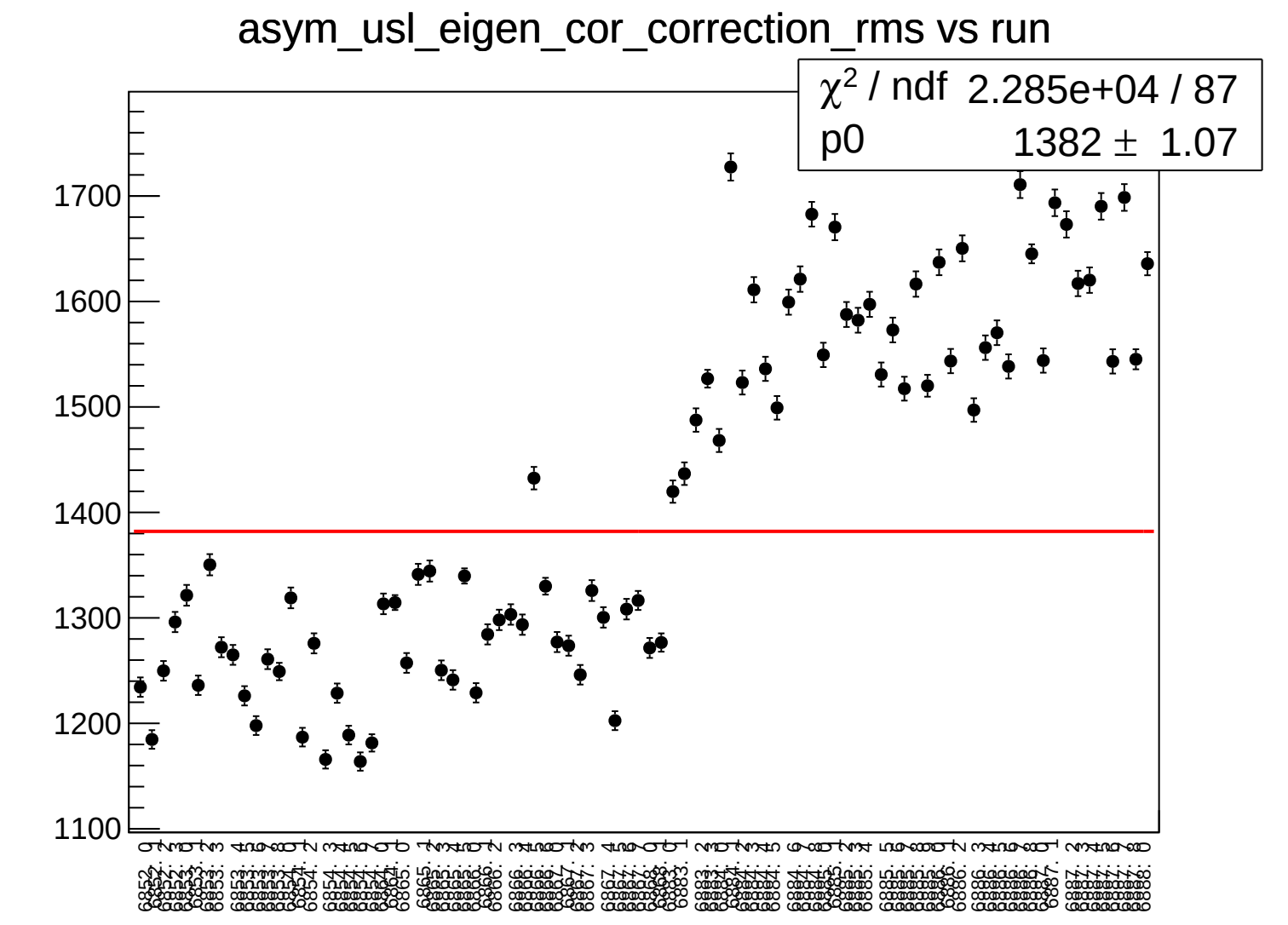

eigen_cor_asym_usl_mean vs run
χ² / ndf 84.63 / 87
p0 658.6 ± 1206
pull
Entries 88
Mean 278.4
Std Dev 0

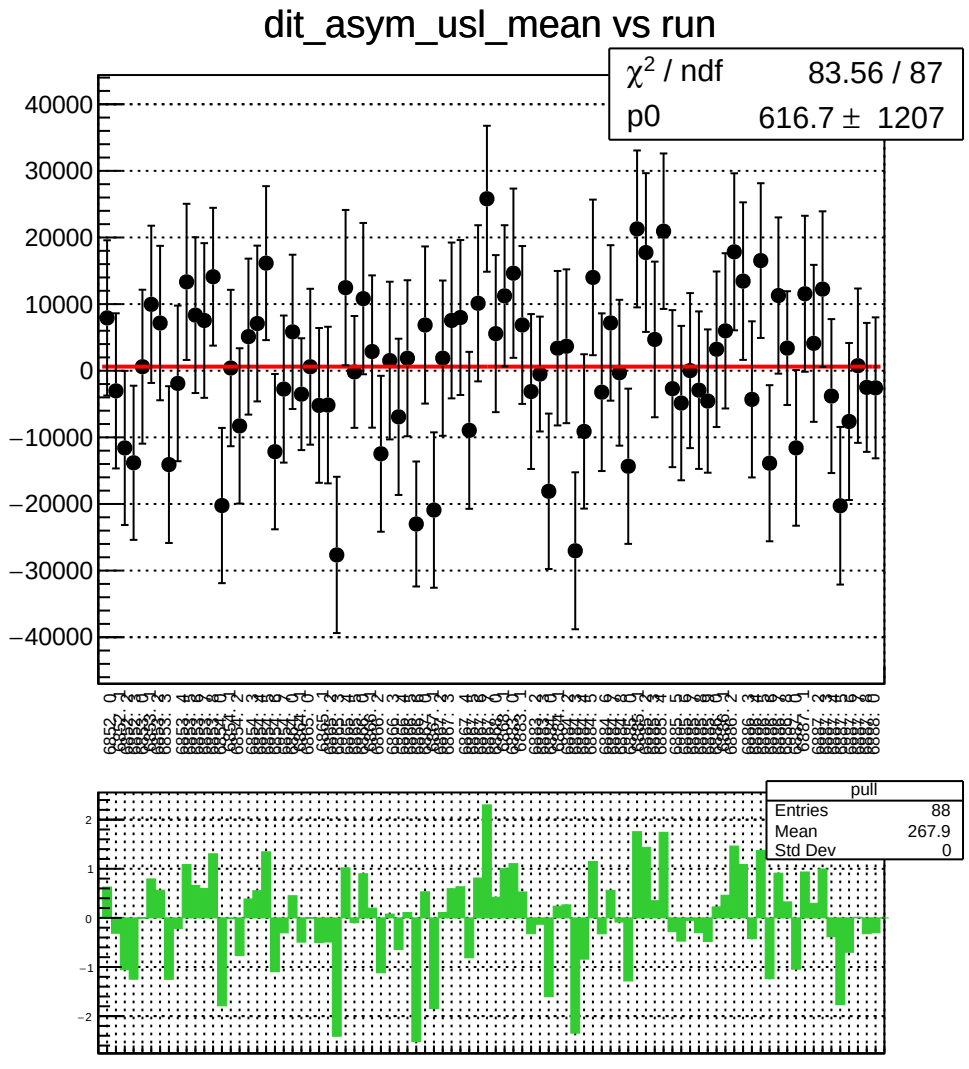

pull1D
Entries 88
Mean 0.006623
Std Dev 0.9806

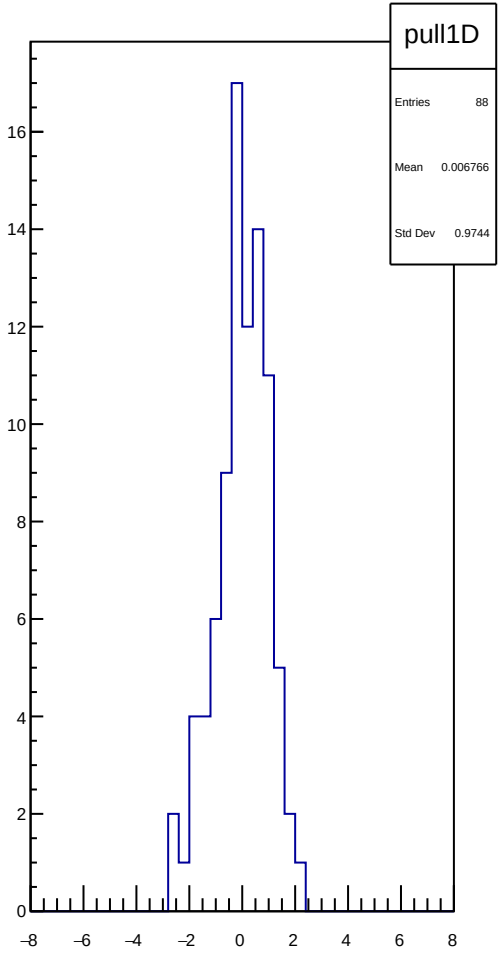

eigen_cor_asym_usl_rms vs run
χ² / ndf 220.1 / 87
p0 1109 ± 0.8526
1220
1200
1180
1160
1140
1120
1100
1080
1060

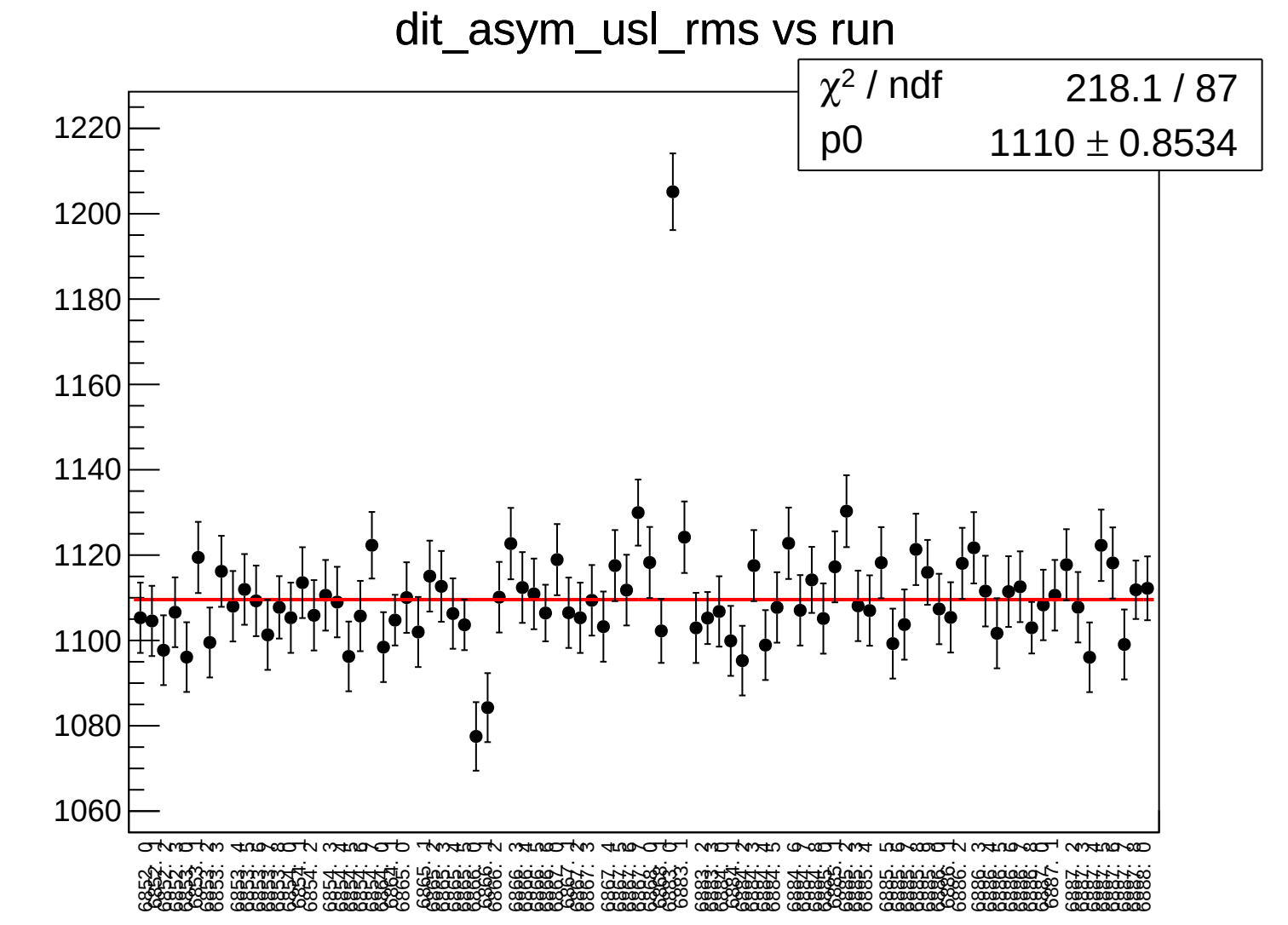

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 104.4 / 87
p0 −3246 ± 1513
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 92.62
Std Dev 0
3
2
1
0
−1
−2
−3

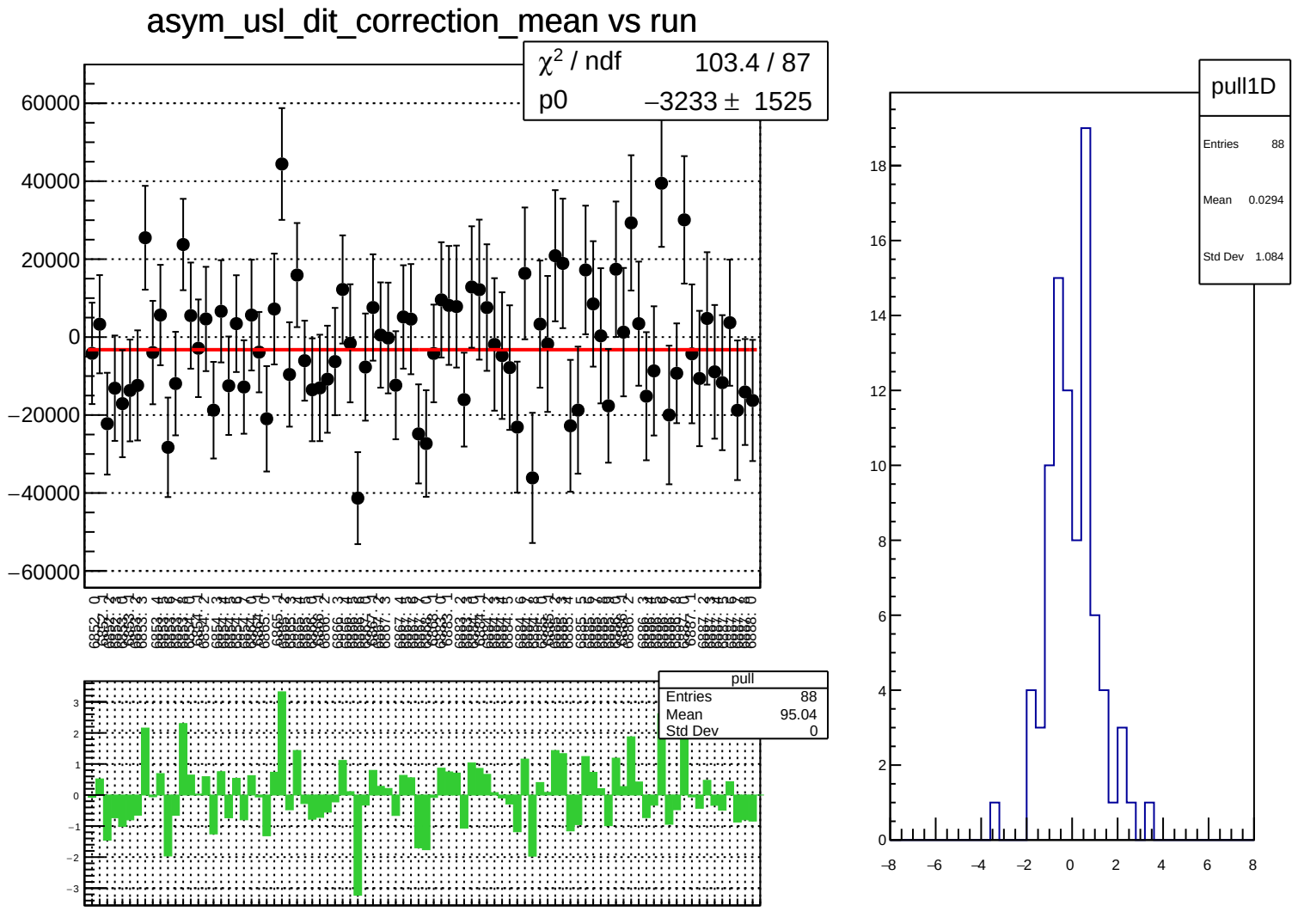

pull1D
Entries 88
Mean 0.03175
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

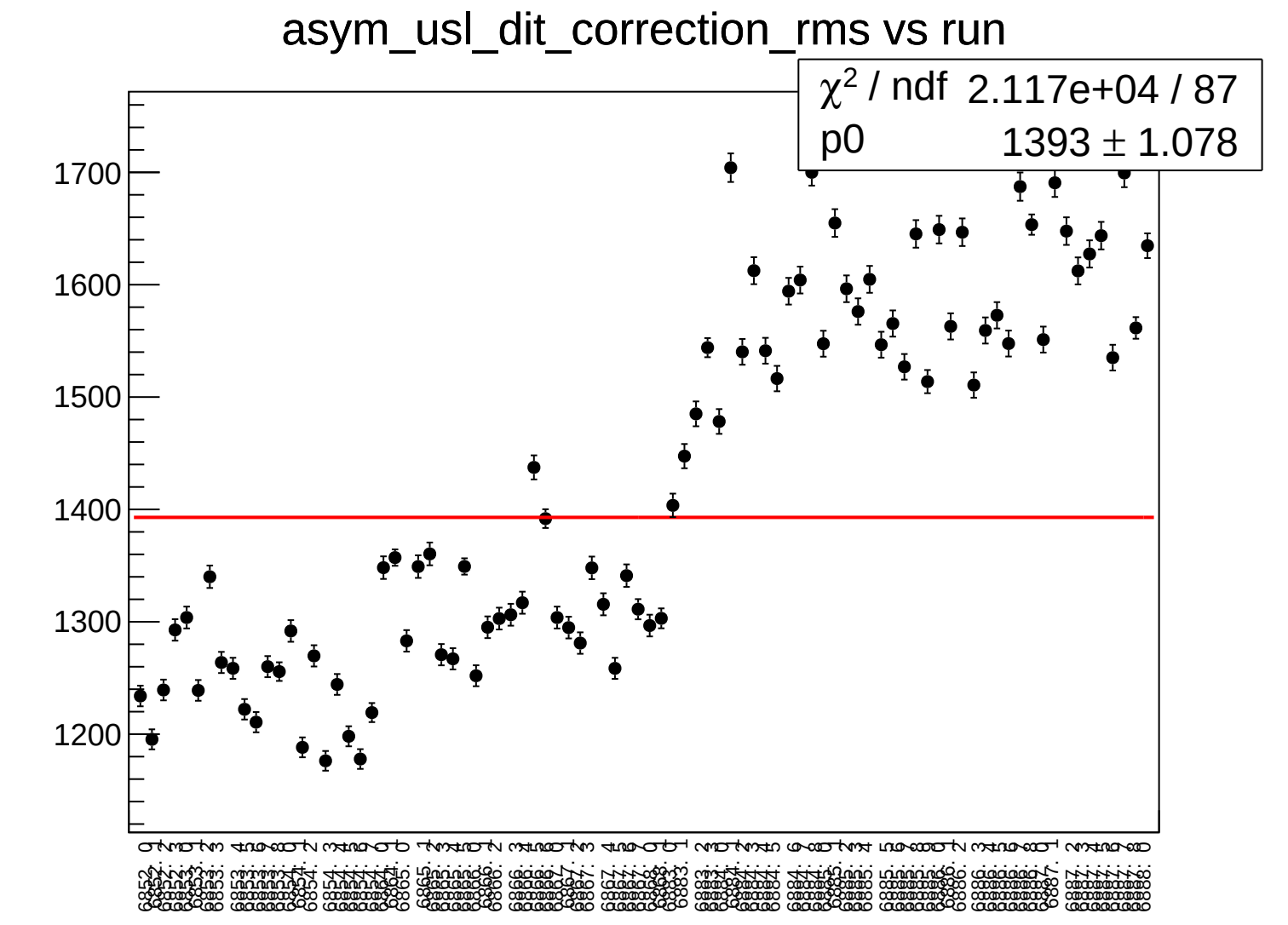

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 2.285e+04 / 87
p0 1382 ± 1.07
1700
1600
1500
1400
1300
1200
1100

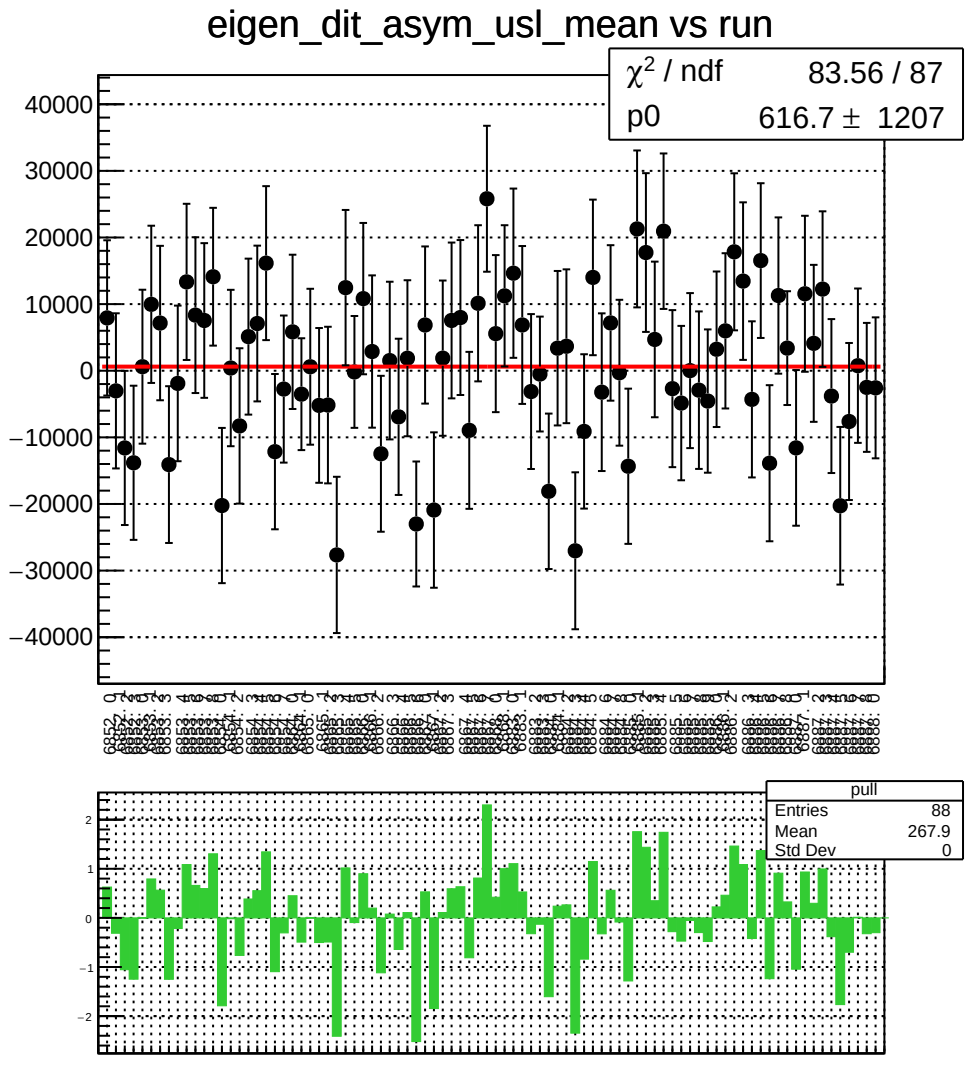

dit_asym_usl_mean vs run
χ² / ndf 83.56 / 87
p0 616.7 ± 1207
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 267.9
Std Dev 0
2
1
0
−1
−2

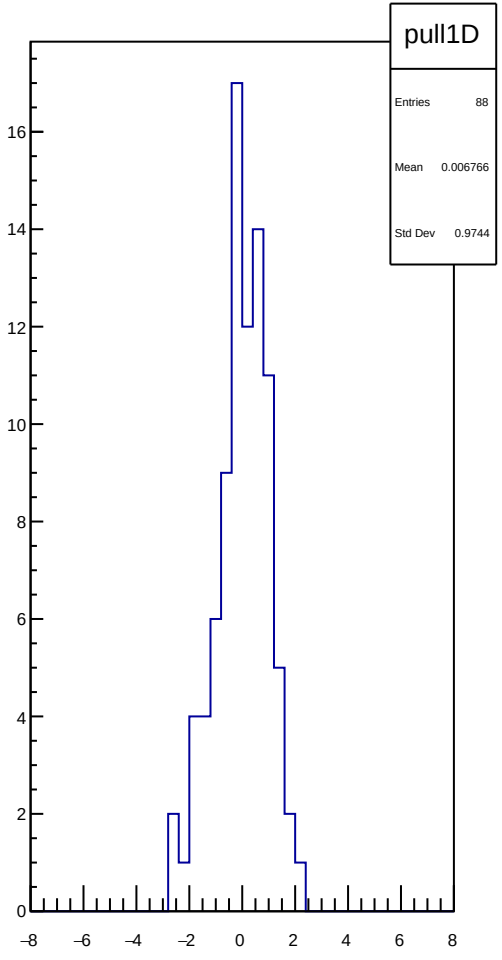

pull1D
Entries 88
Mean 0.006766
Std Dev 0.9744
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

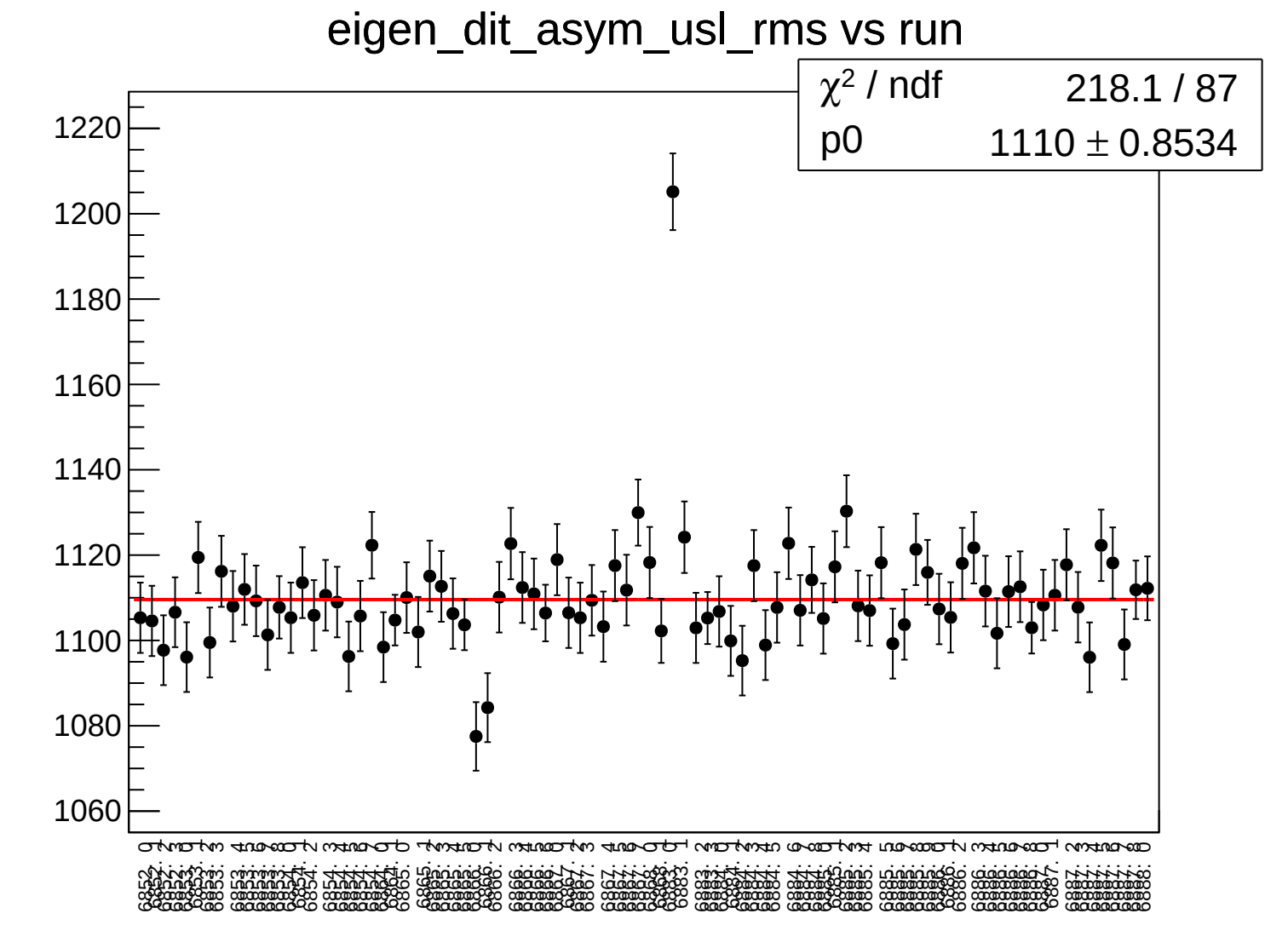

dit_asym_usl_rms vs run
χ² / ndf 218.1 / 87
p0 1110 ± 0.8534
1220
1200
1180
1160
1140
1120
1100
1080
1060

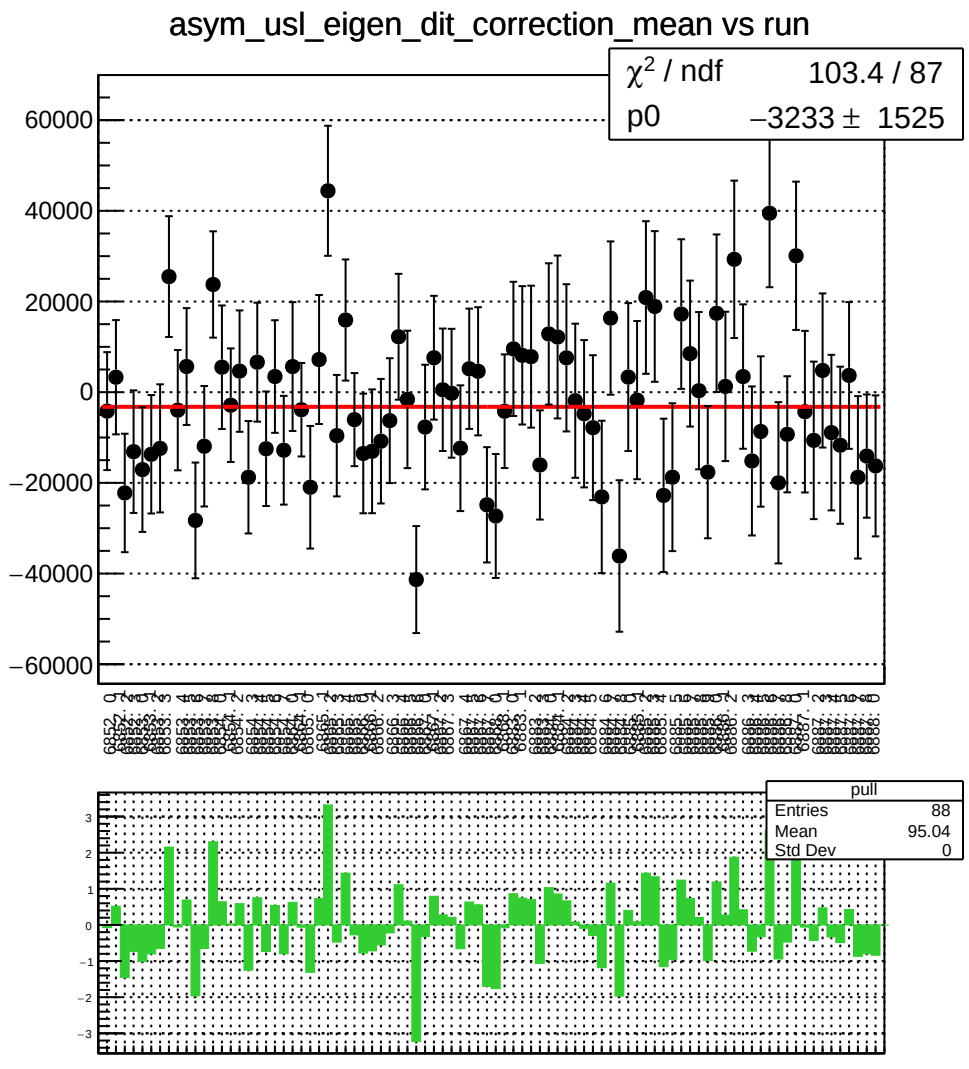

asym_usl_dit_correction_mean vs run
χ² / ndf 103.4 / 87
p0 −3233 ± 1525
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 95.04
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0294
Std Dev 1.084
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

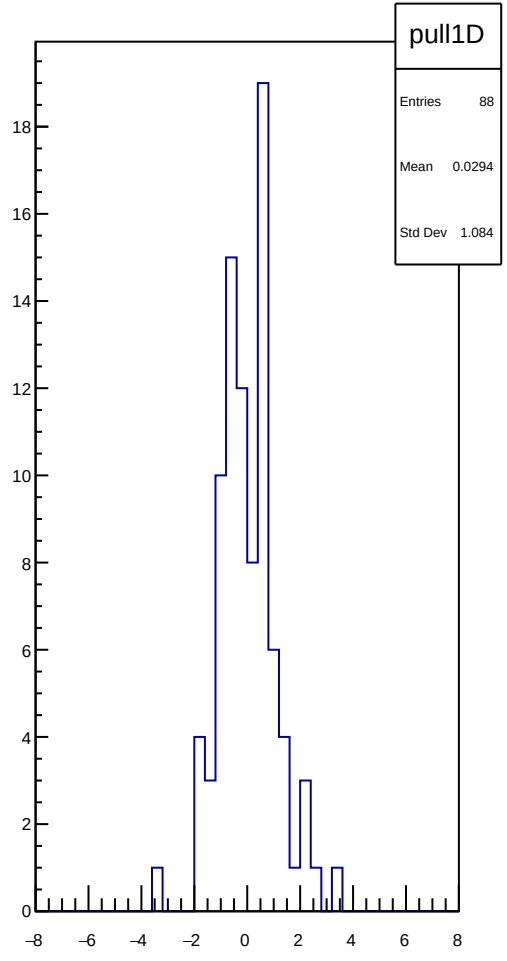

asym_usl_dit_correction_rms vs run
χ² / ndf 2.117e+04 / 87
p0 1393 ± 1.078
1700
1600
1500
1400
1300
1200

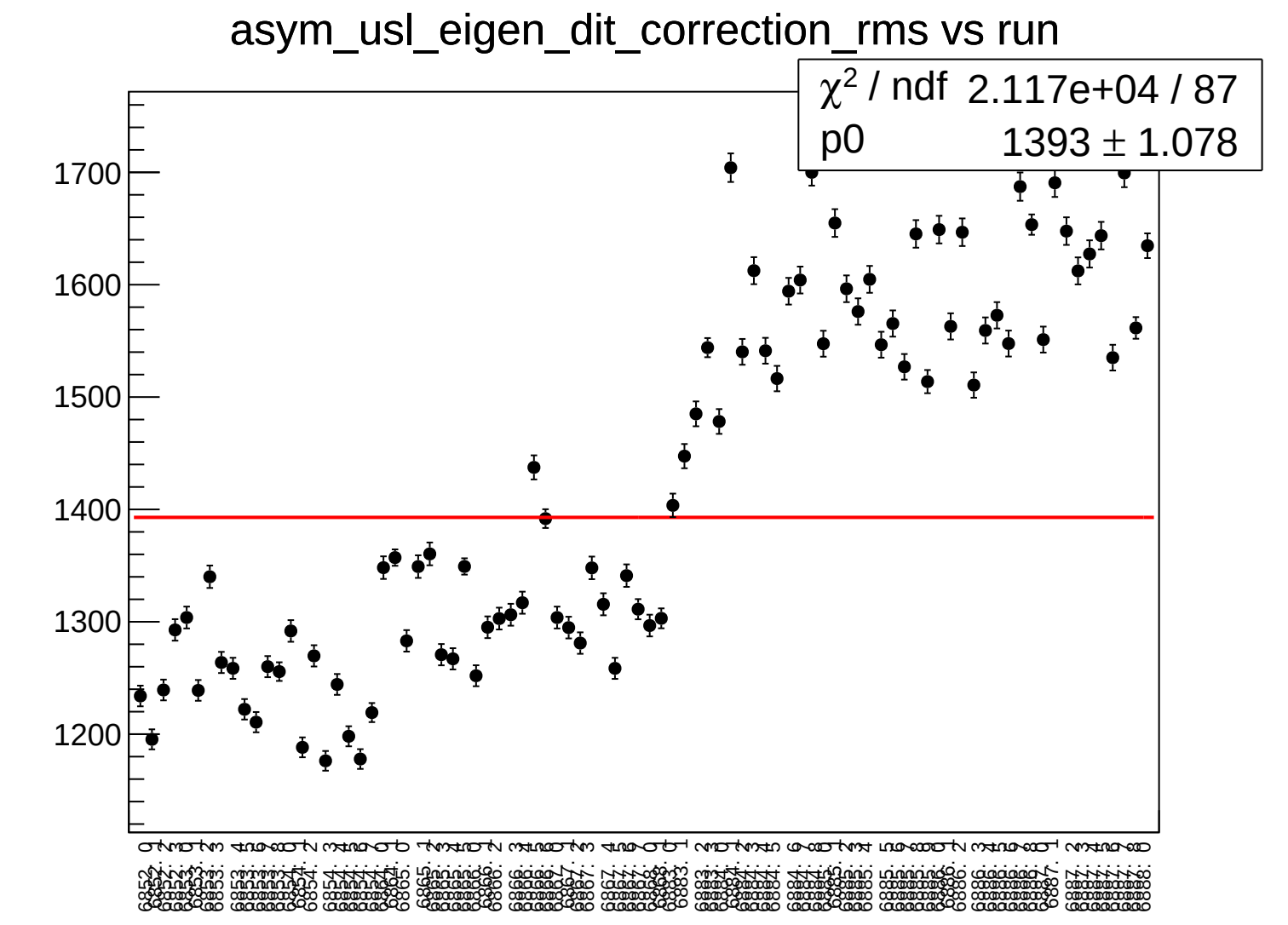

eigen_dit_asym_usl_mean vs run
χ² / ndf 83.56 / 87
p0 616.7 ± 1207
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 267.9
Std Dev 0
2
1
0
−1
−2

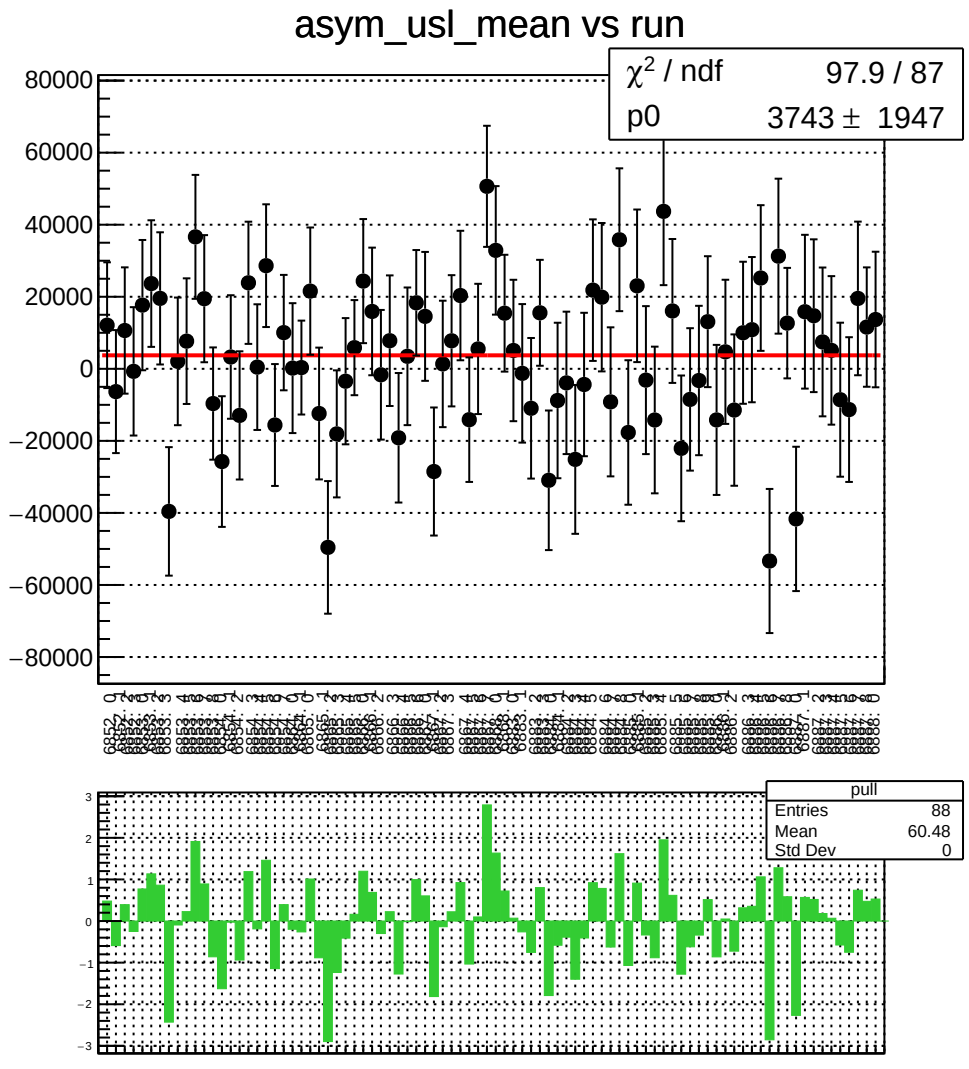

pull1D
Entries 88
Mean 0.006766
Std Dev 0.9744
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

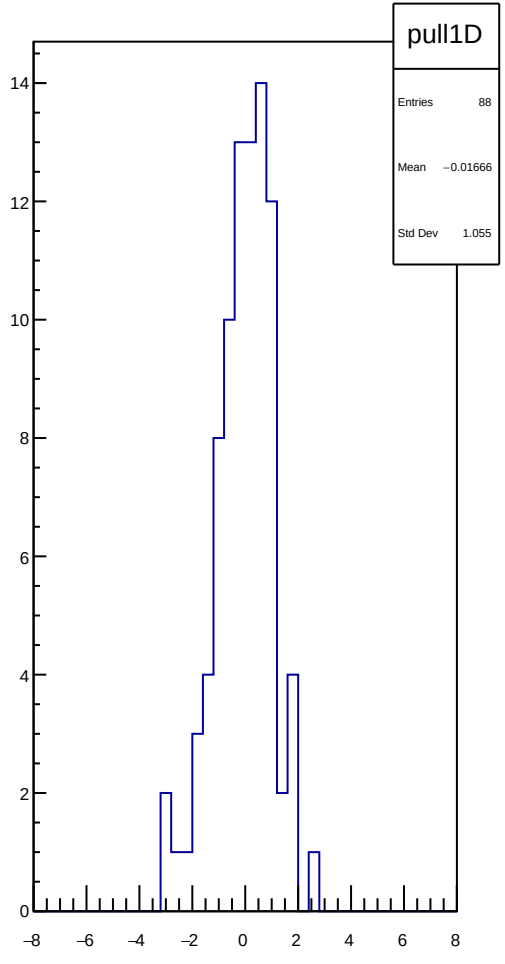

eigen_dit_asym_usl_rms vs run
χ² / ndf 218.1 / 87
p0 1110 ± 0.8534
1220
1200
1180
1160
1140
1120
1100
1080
1060

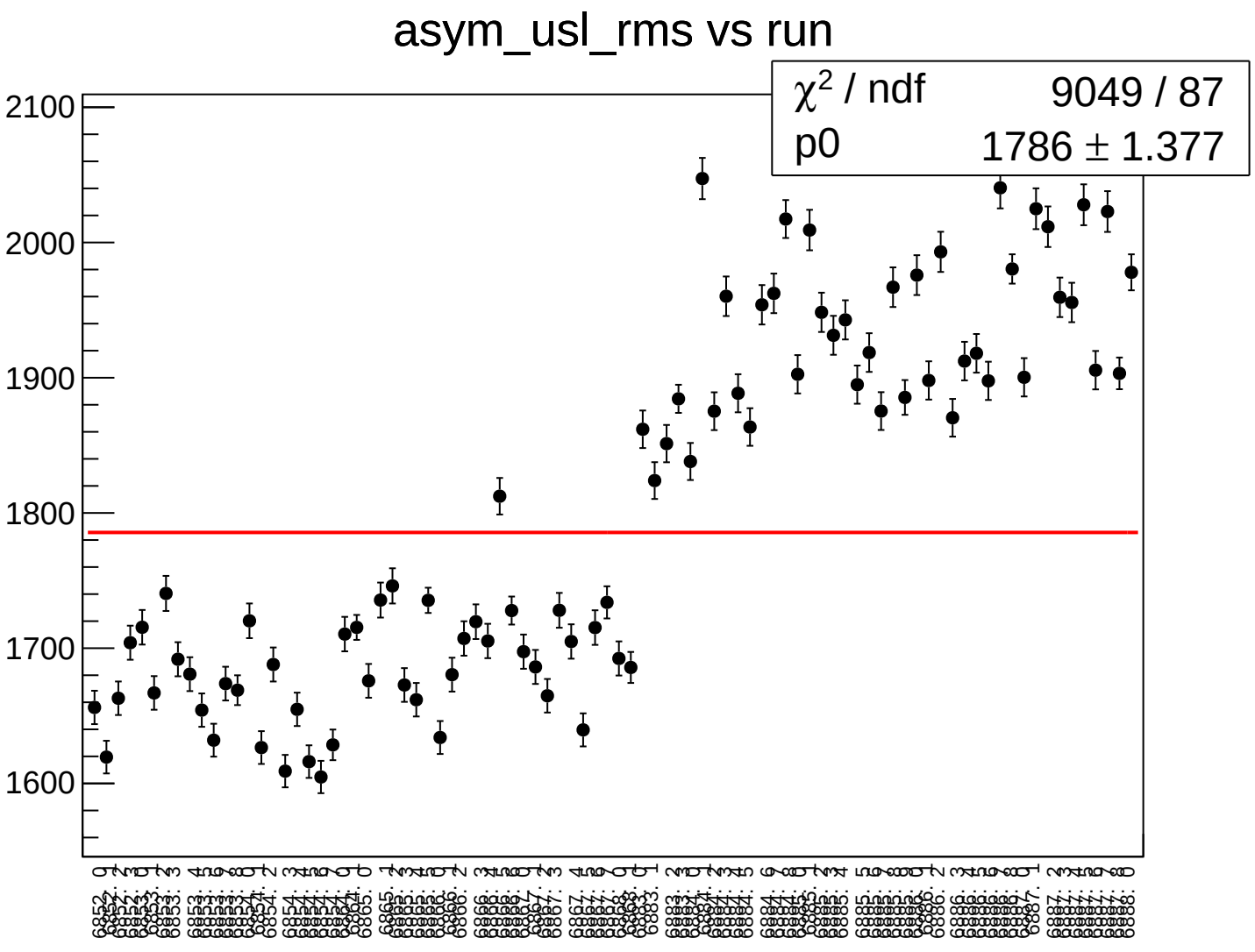

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 103.4 / 87
p0 −3233 ± 1525
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 95.04
Std Dev 0
3
2
1
0
−1
−2
−3

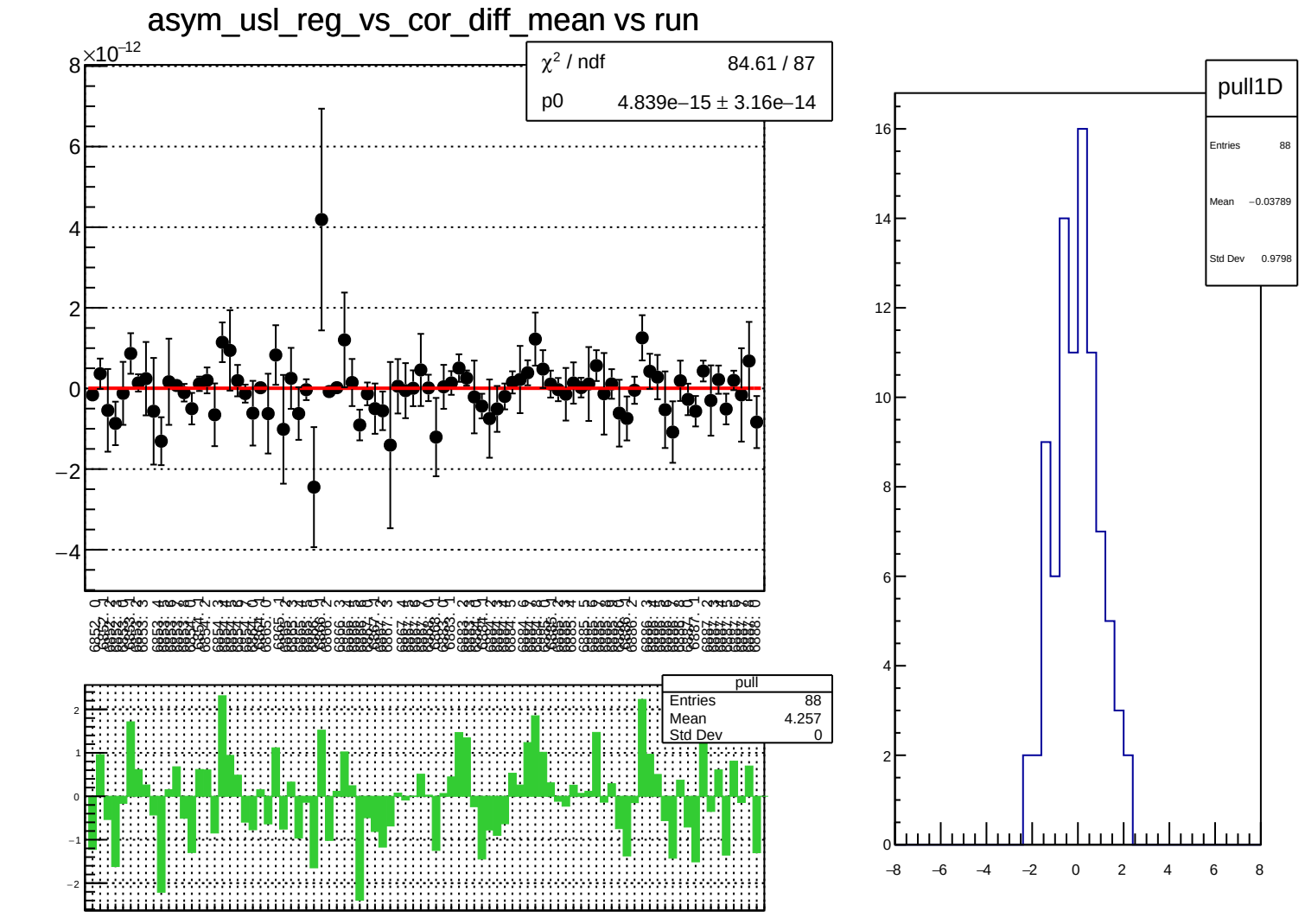

pull1D
Entries 88
Mean 0.0294
Std Dev 1.084
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

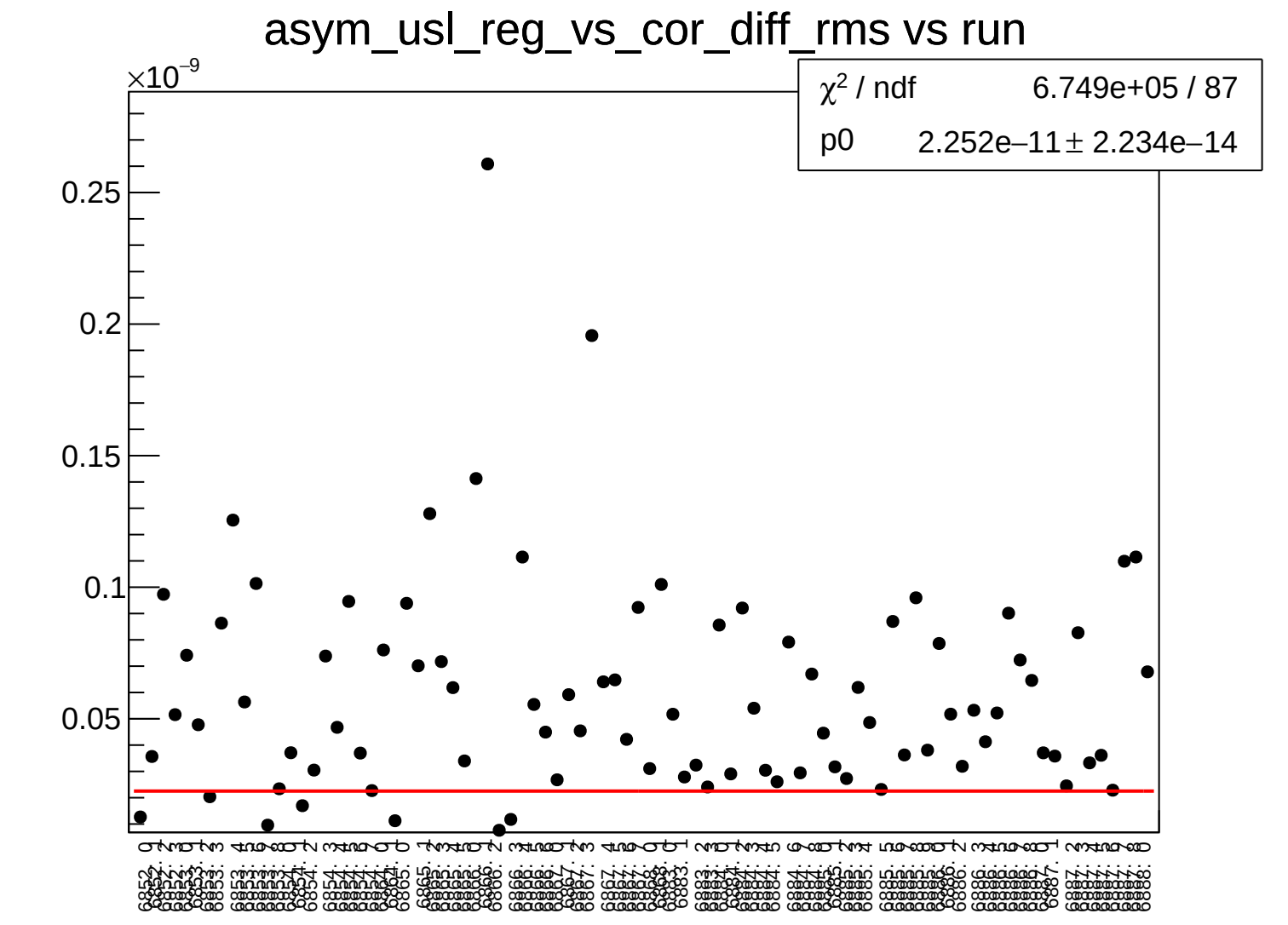

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 2.117e+04 / 87
p0 1393 ± 1.078
1700
1600
1500
1400
1300
1200

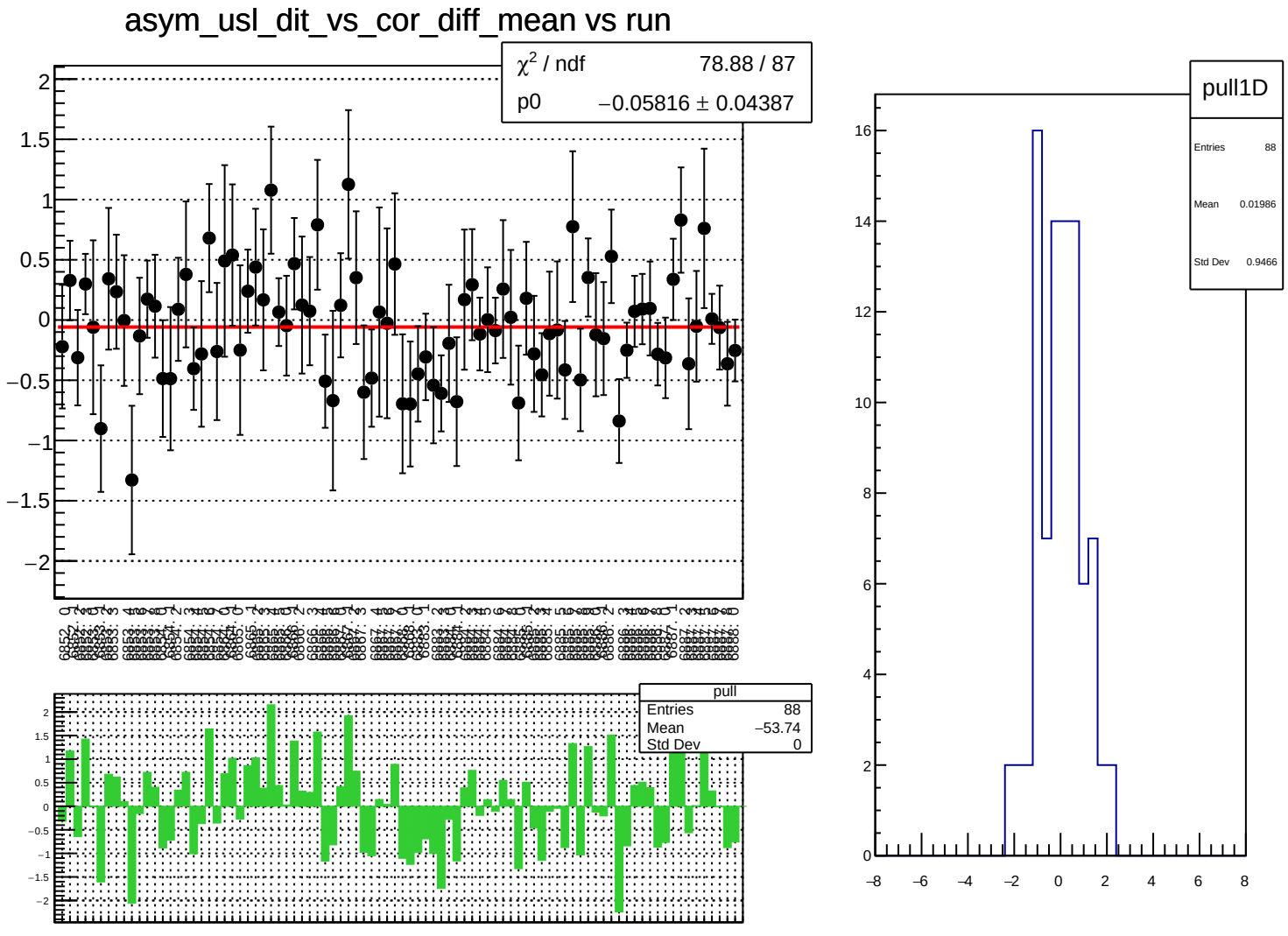

asym_usl_mean vs run
χ² / ndf 97.9 / 87
p0 3743 ± 1947
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 60.48
Std Dev 0
3
2
1
0
−1
−2
−3

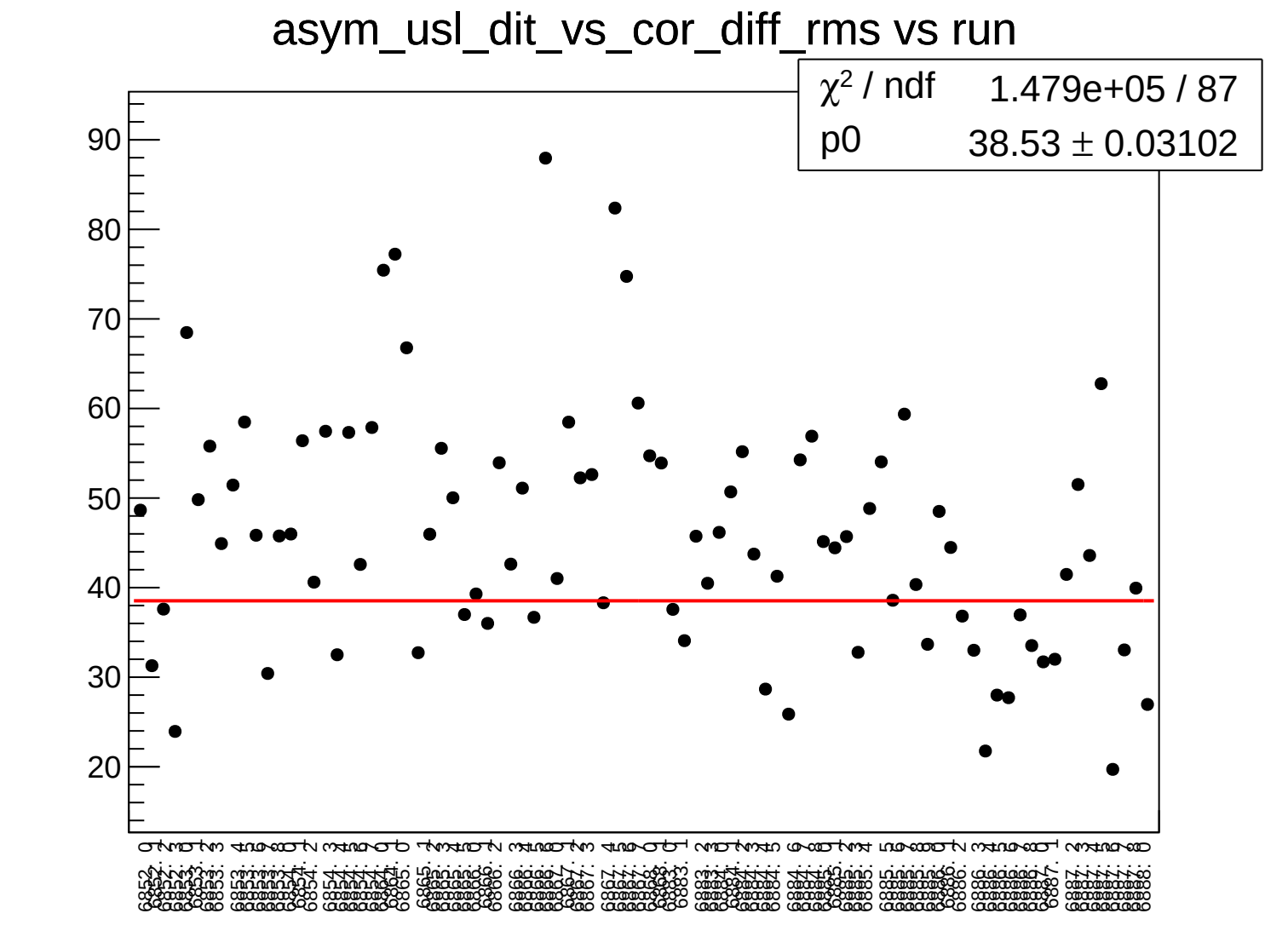

pull1D
Entries 88
Mean −0.01666
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

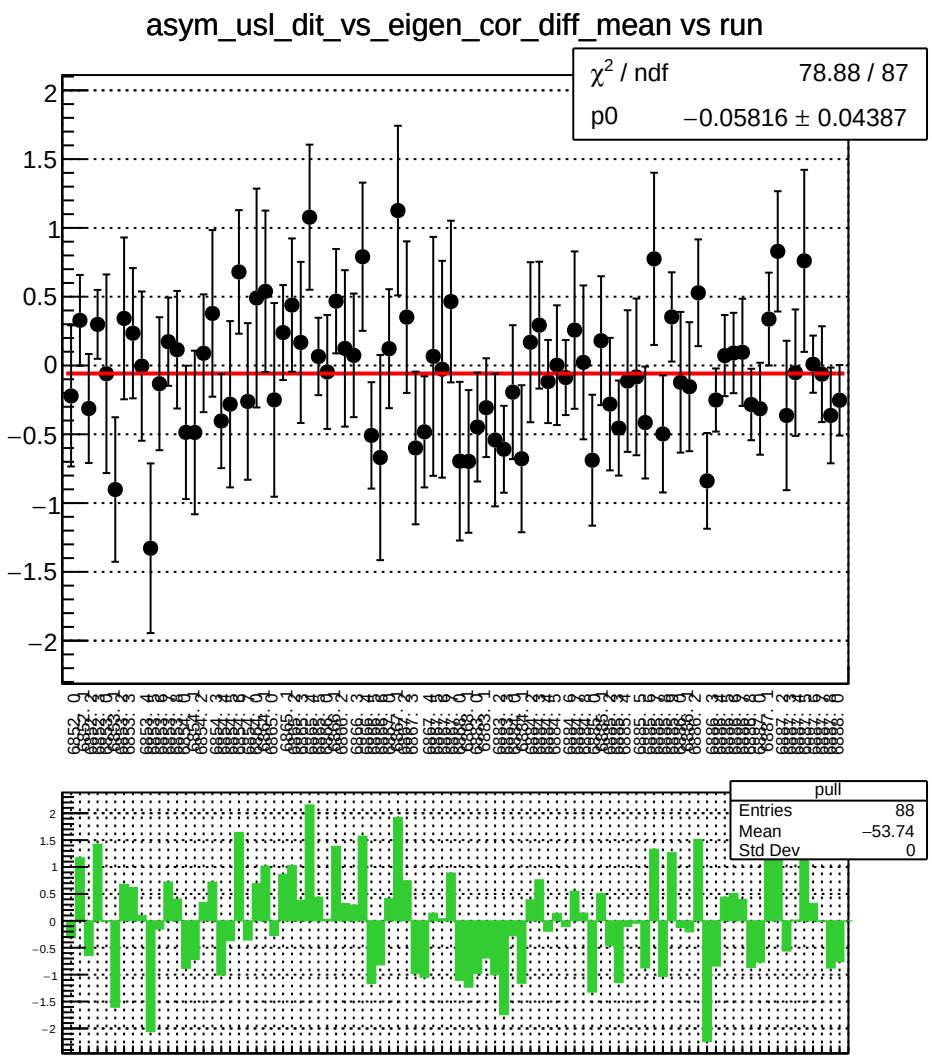

asym_usl_rms vs run
χ² / ndf 9049 / 87
p0 1786 ± 1.377
2100
2000
1900
1800
1700
1600

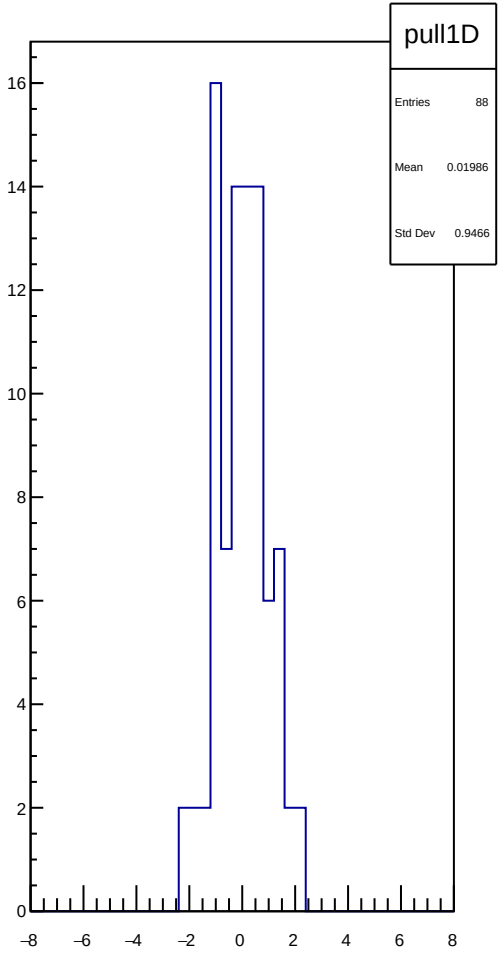

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.61 / 87
p0 4.839e−15 ± 3.16e−14
pull
Entries 88
Mean 4.257
Std Dev 0
pull1D
Entries 88
Mean −0.03789
Std Dev 0.9798

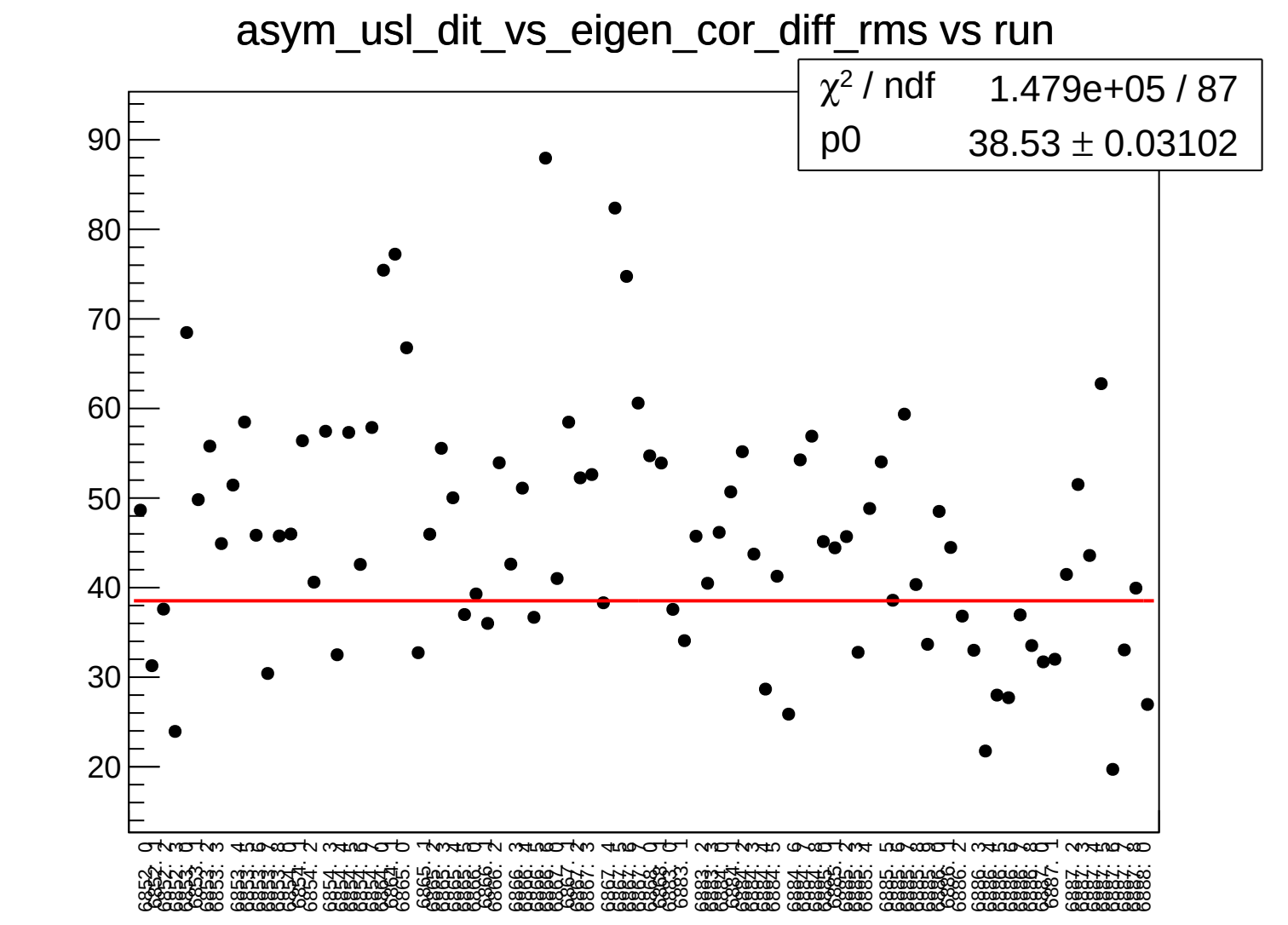

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.749e+05 / 87
p0 2.252e−11 ± 2.234e−14
0.25
0.2
0.15
0.1
0.05

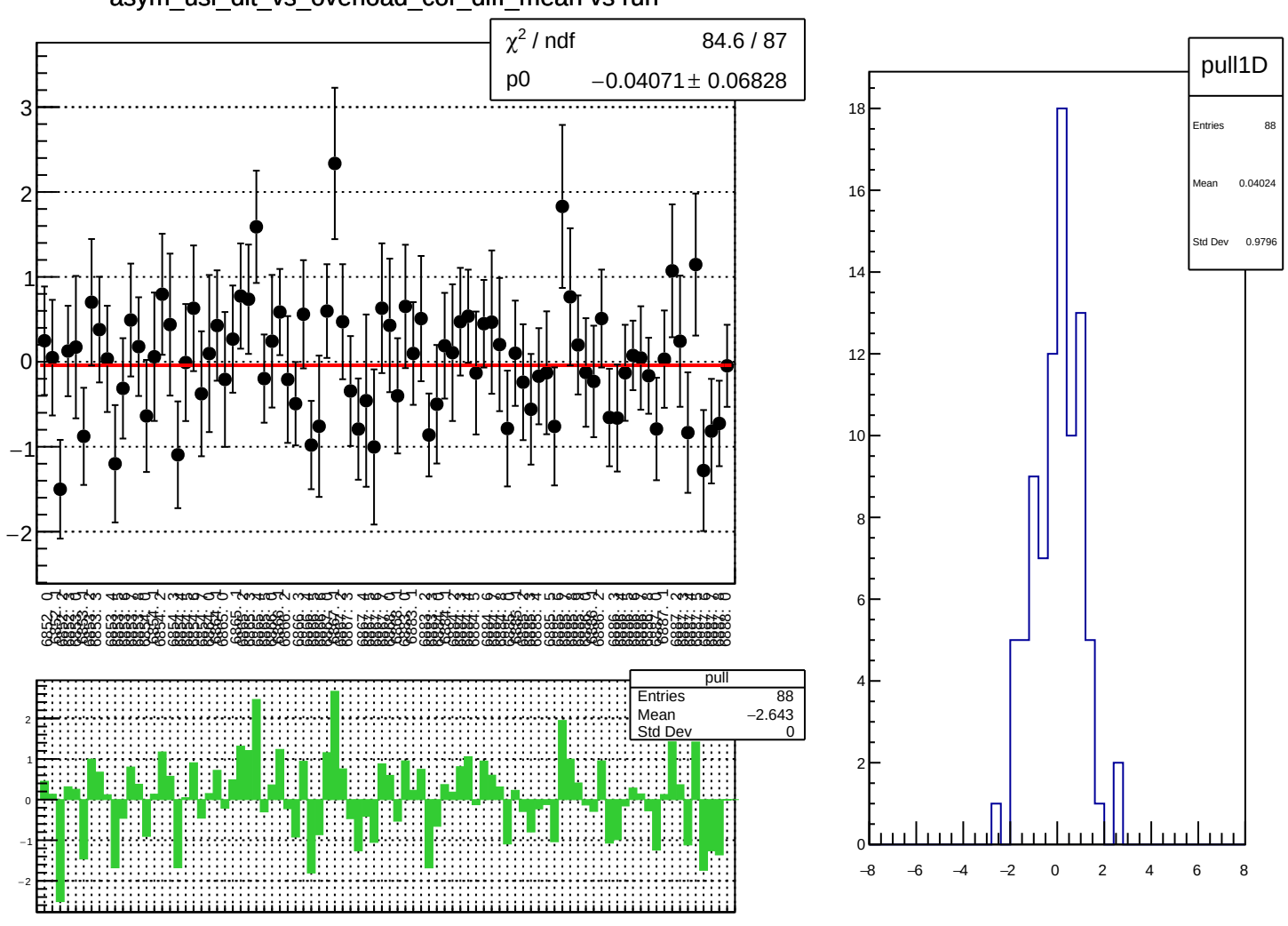

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 78.88 / 87
p0 −0.05816 ± 0.04387
pull
Entries 88
Mean −53.74
Std Dev 0
pull1D
Entries 88
Mean 0.01986
Std Dev 0.9466

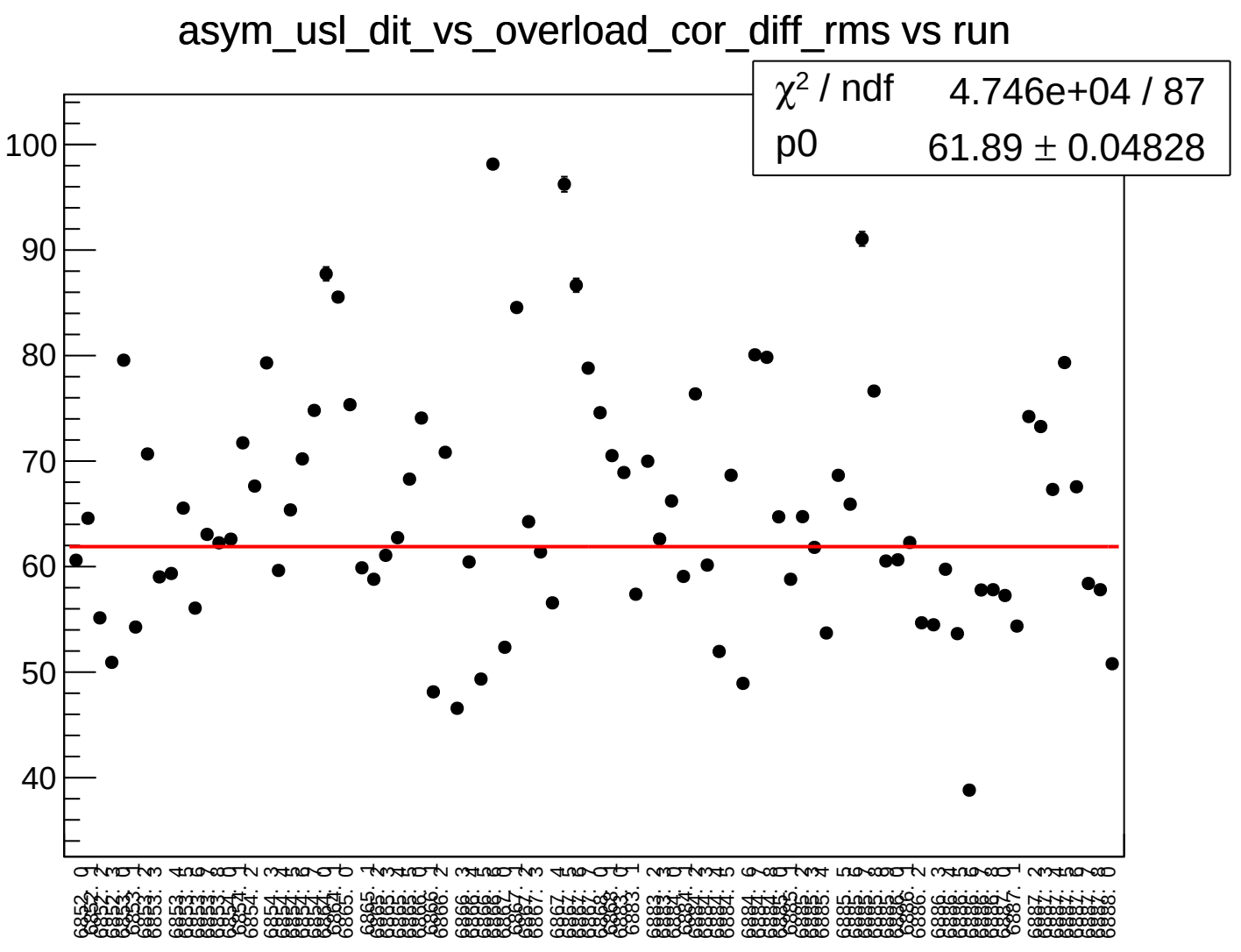

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 1.479e+05 / 87
p0 38.53 ± 0.03102
90
80
70
60
50
40
30
20

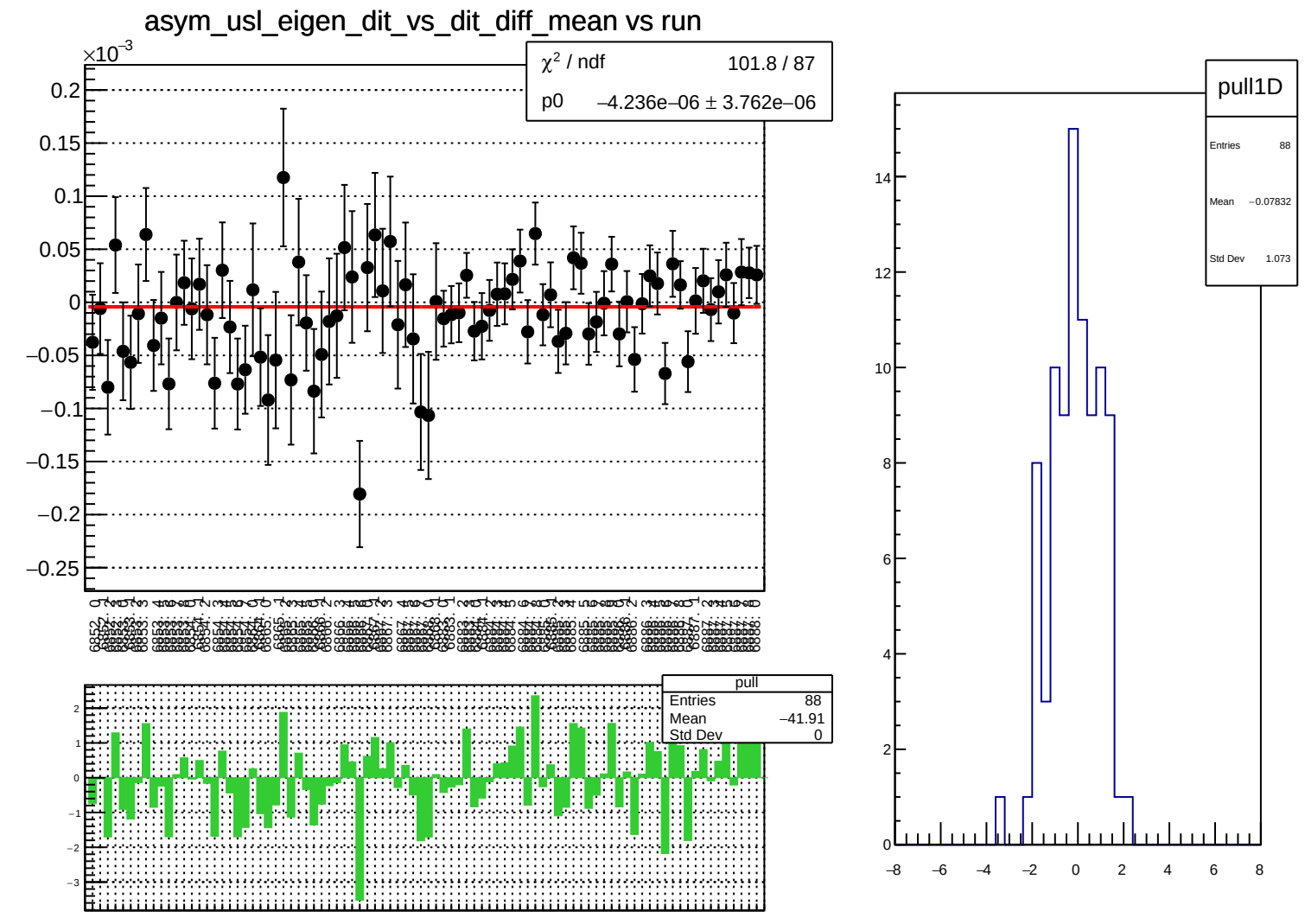

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.88 / 87
p0 −0.05816 ± 0.04387
pull
Entries 88
Mean −53.74
Std Dev 0

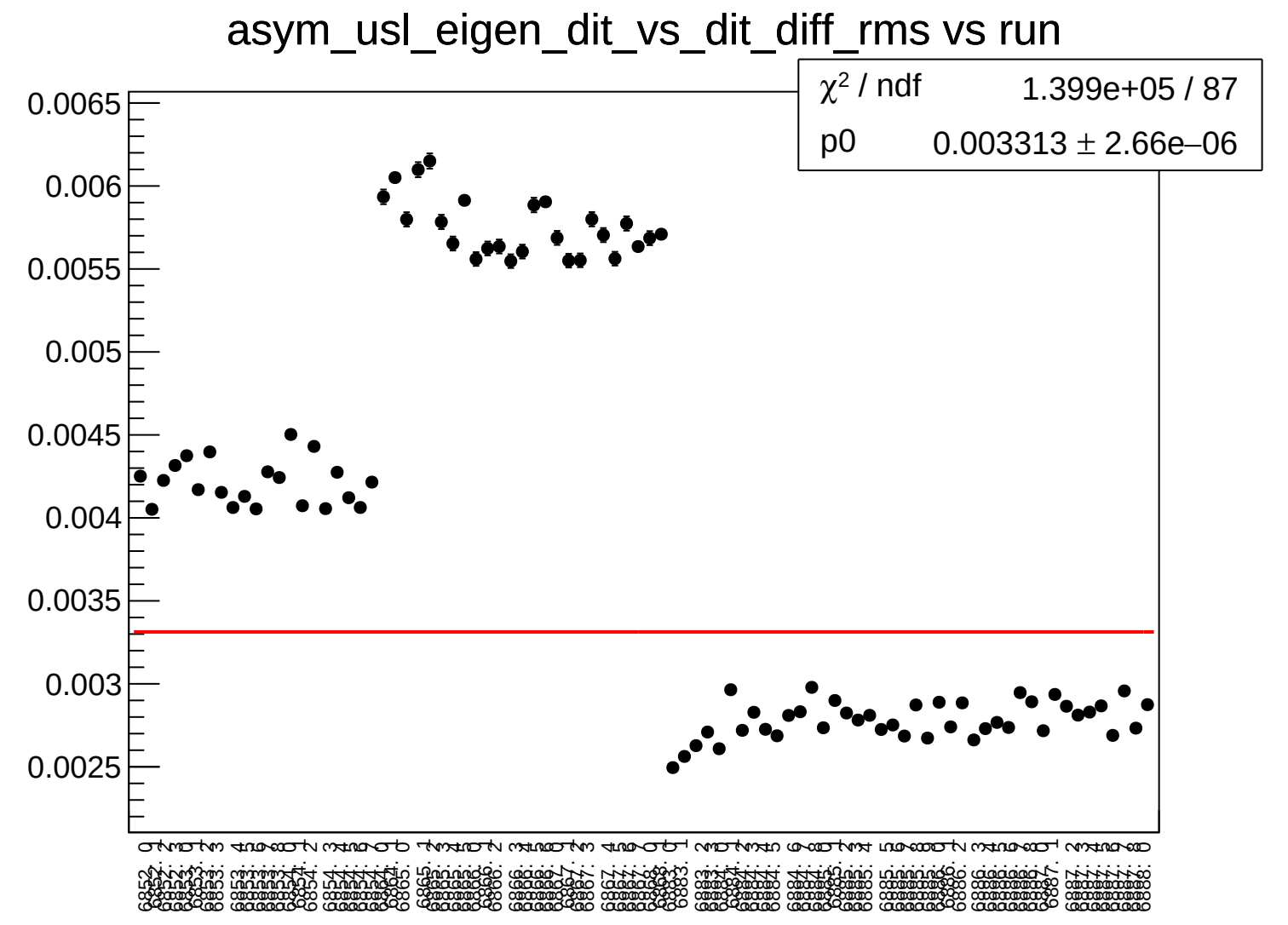

pull1D
Entries 88
Mean 0.01986
Std Dev 0.9466

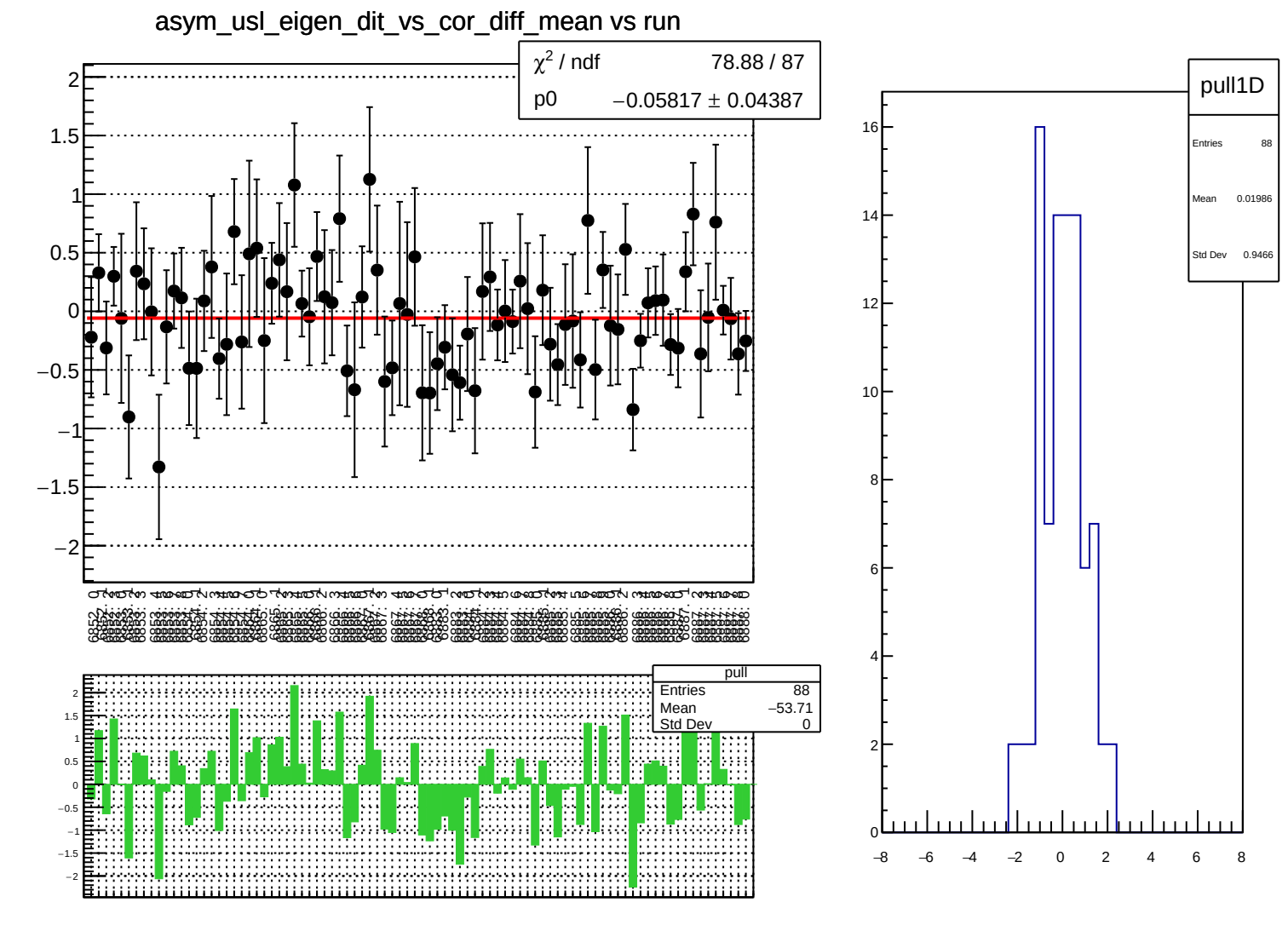

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.479e+05 / 87
p0 38.53 ± 0.03102
90
80
70
60
50
40
30
20

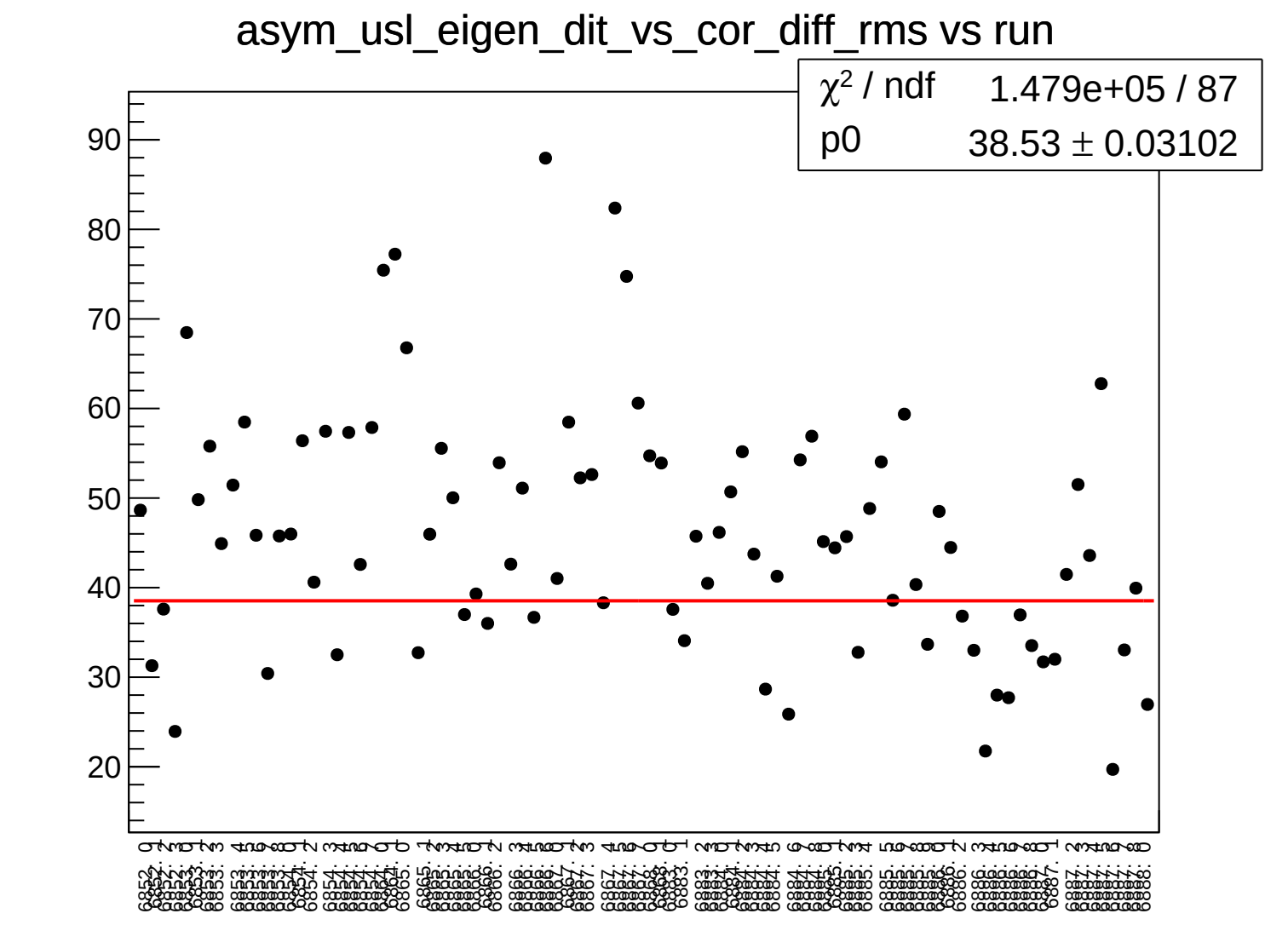

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.6 / 87
p0 −0.04071 ± 0.06828
pull
Entries 88
Mean −2.643
Std Dev 0
pull1D
Entries 88
Mean 0.04024
Std Dev 0.9796


asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.746e+04 / 87
p0 61.89 ± 0.04828
100
90
80
70
60
50
40

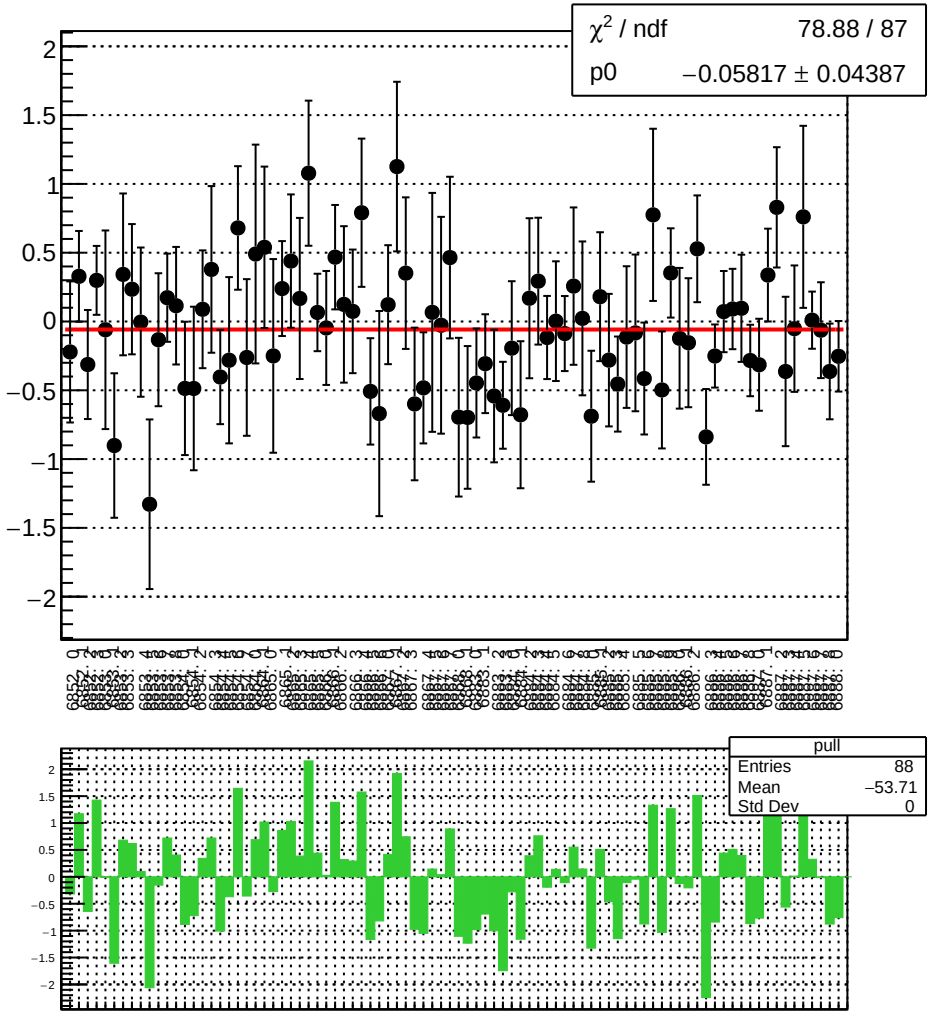

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.8 / 87
p0 −4.236e−06 ± 3.762e−06
pull
Entries 88
Mean −41.91
Std Dev 0
pull1D
Entries 88
Mean −0.07832
Std Dev 1.073

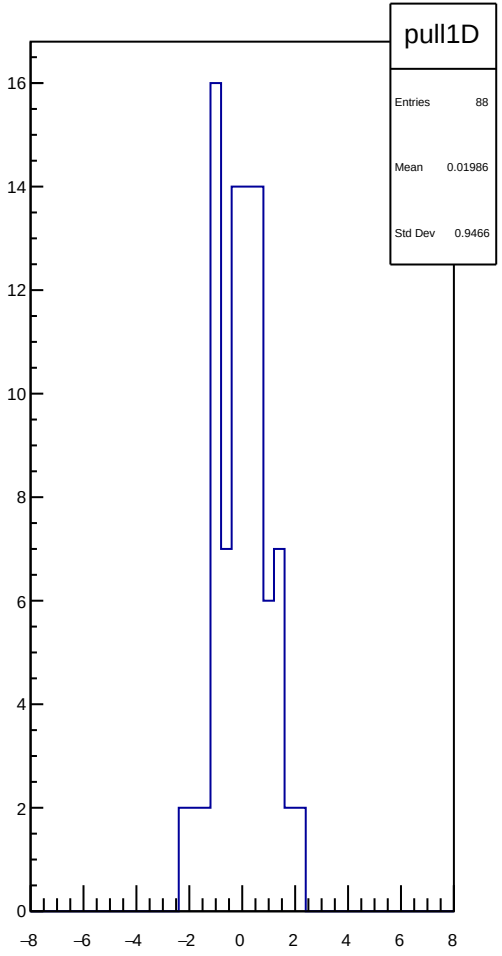

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.399e+05 / 87
p0 0.003313 ± 2.66e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

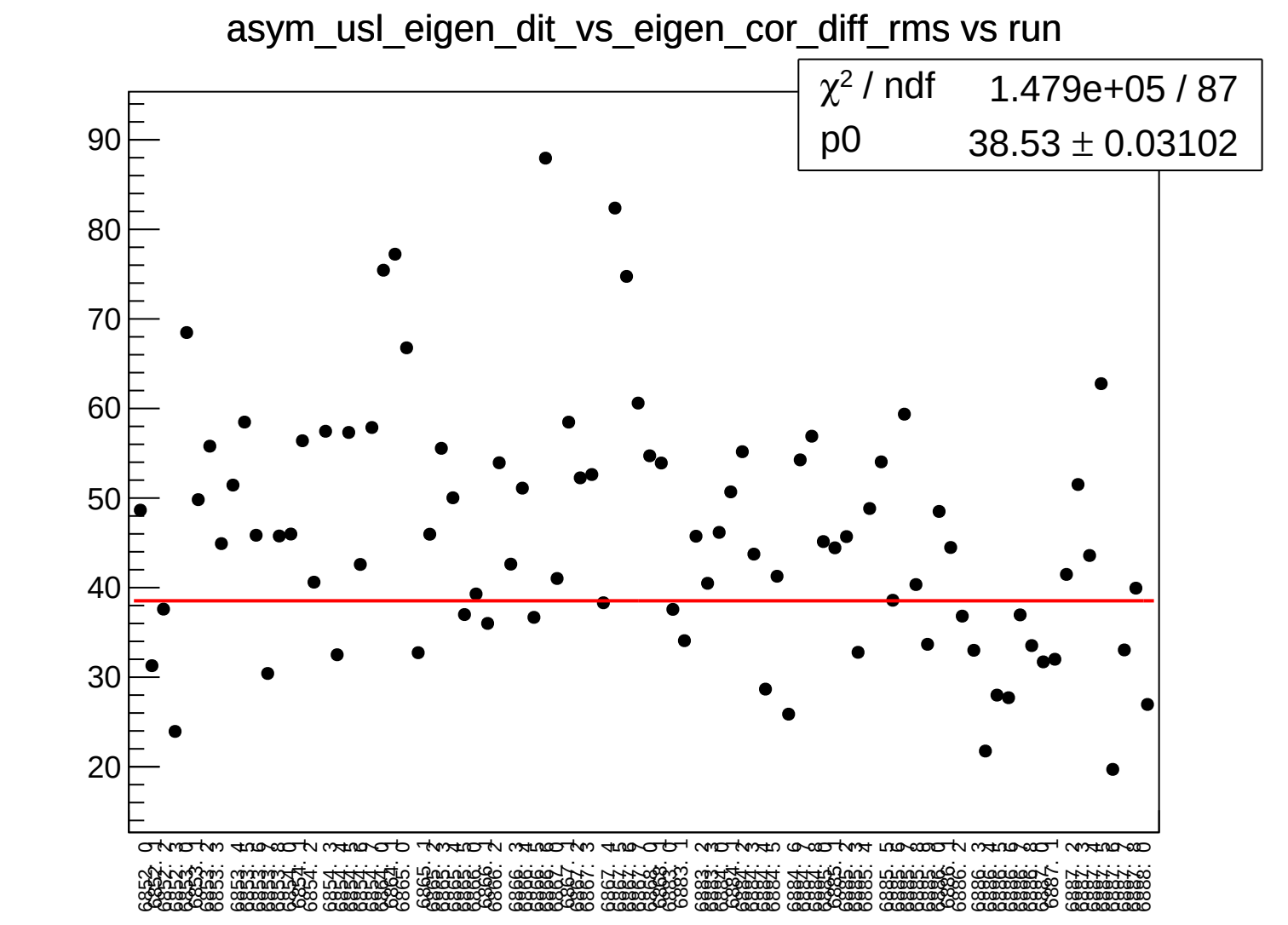

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.88 / 87
p0 −0.05817 ± 0.04387
pull
Entries 88
Mean −53.71
Std Dev 0
pull1D
Entries 88
Mean 0.01986
Std Dev 0.9466

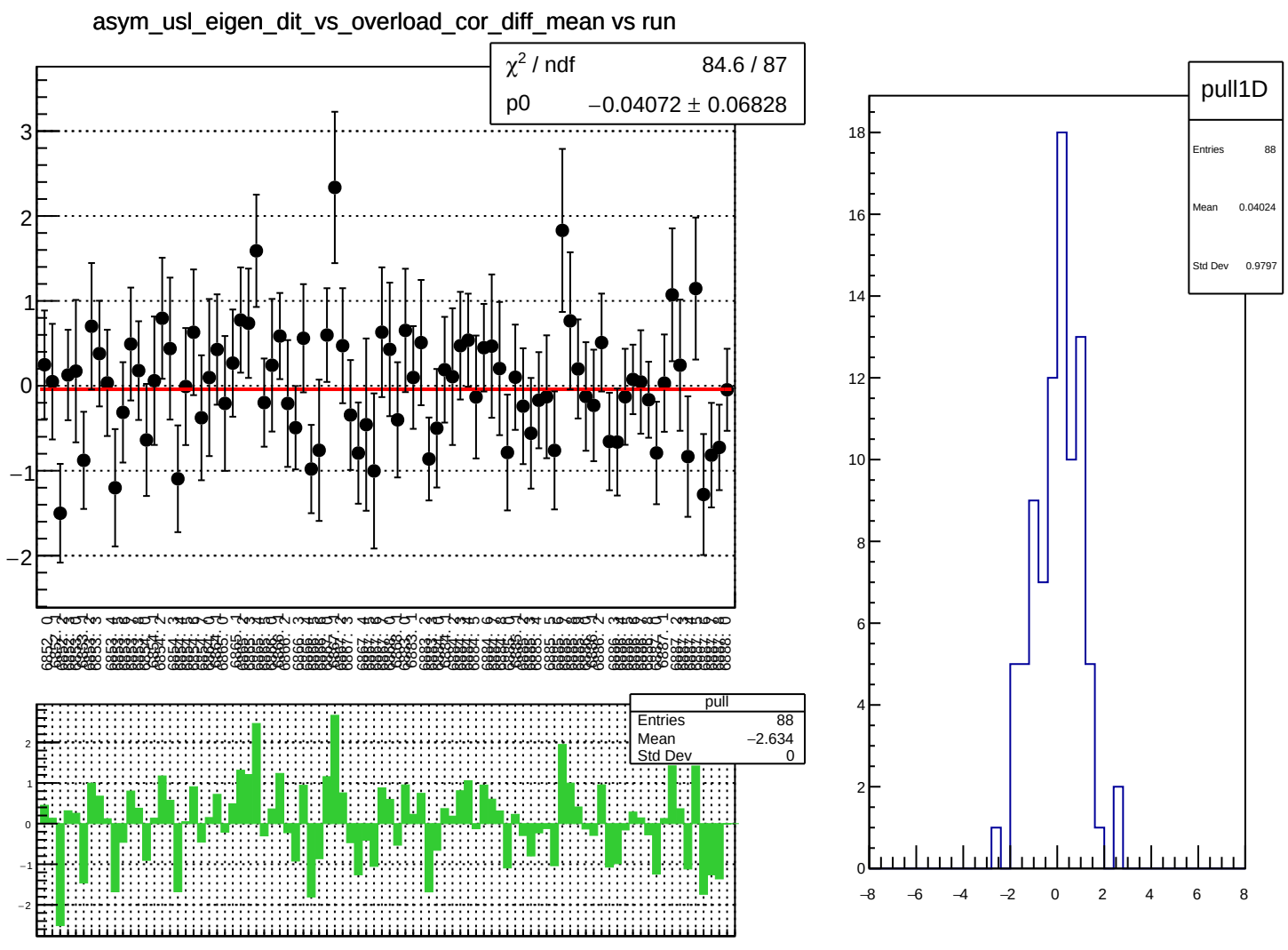

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.479e+05 / 87
p0 38.53 ± 0.03102
90
80
70
60
50
40
30
20

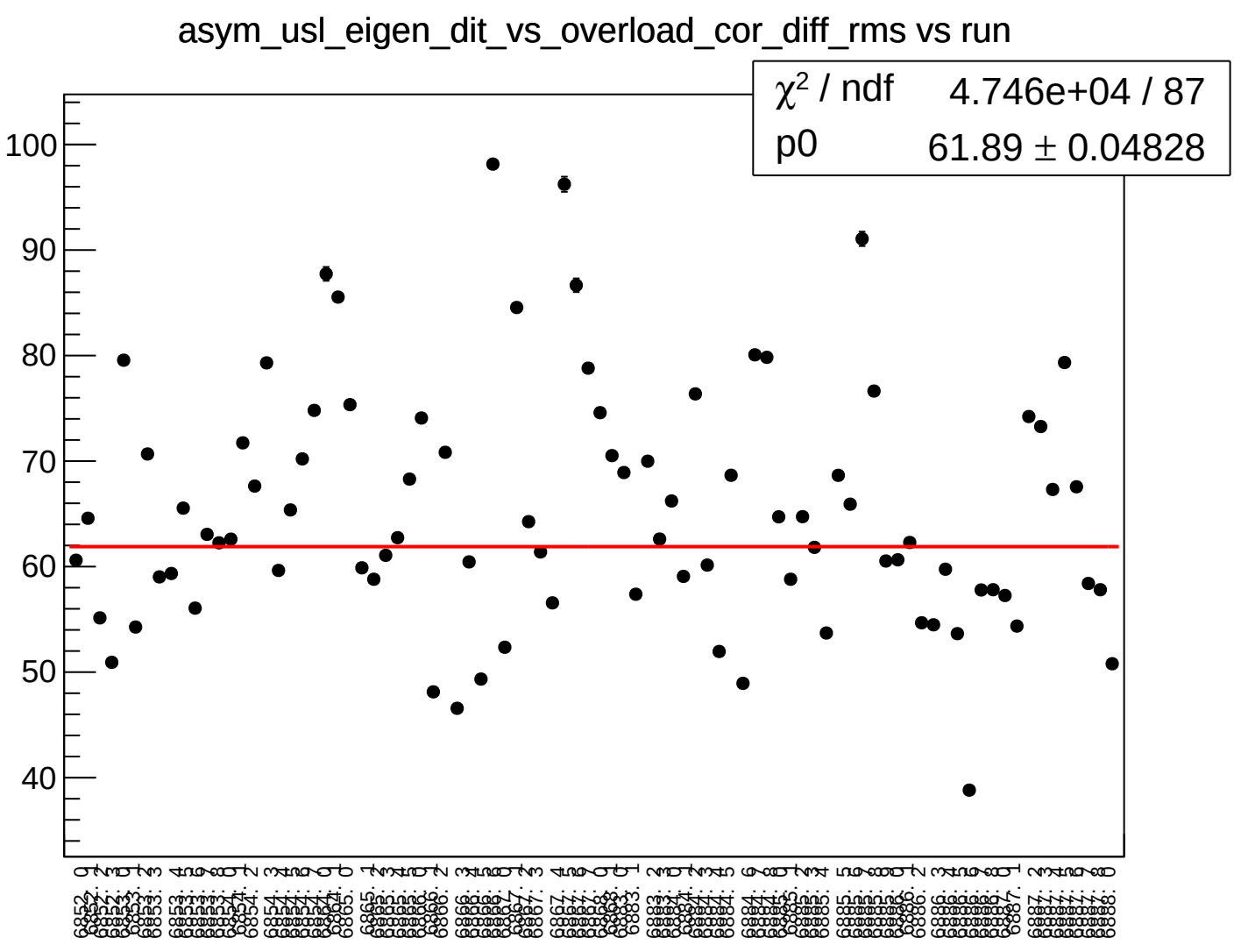
asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run

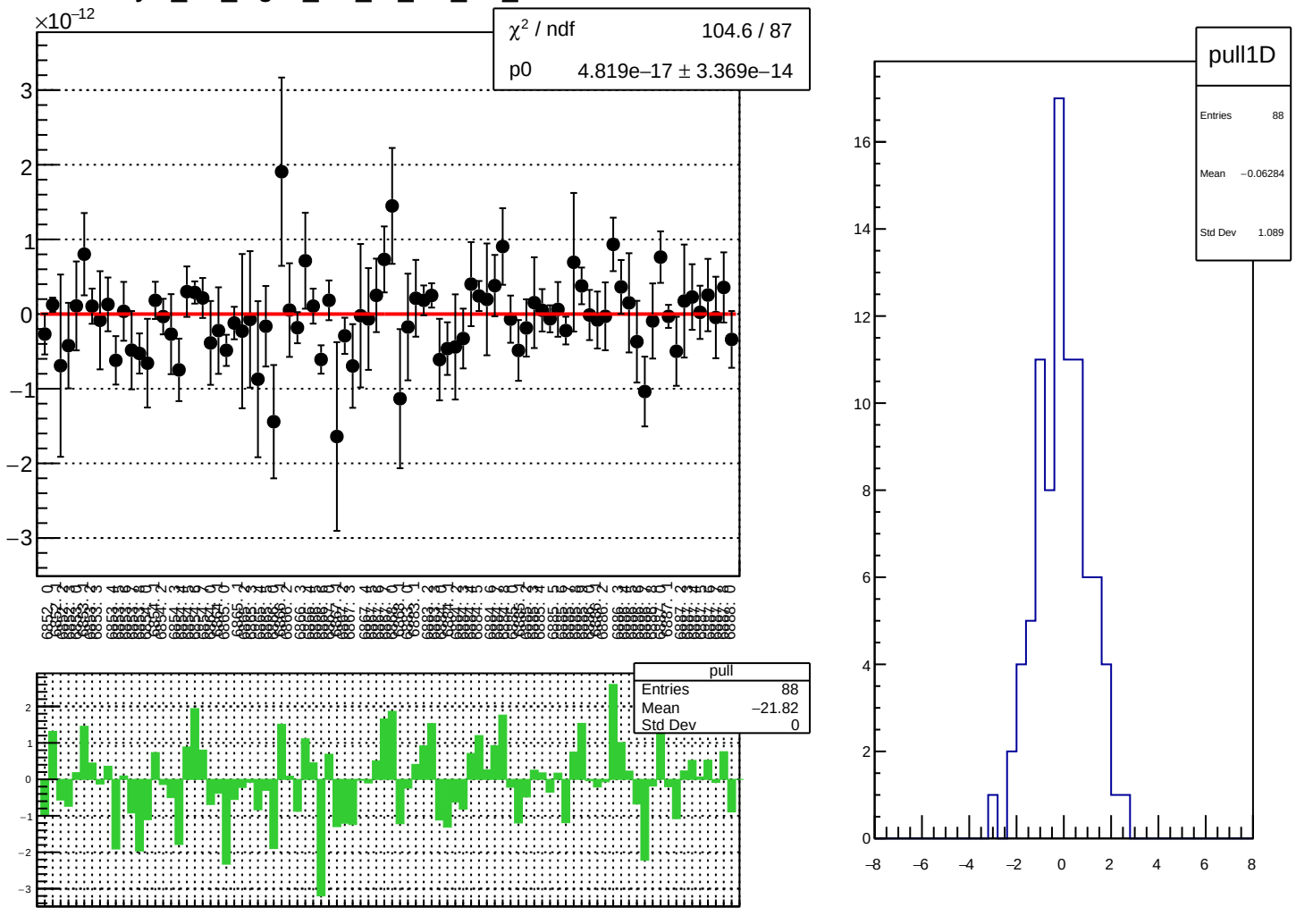


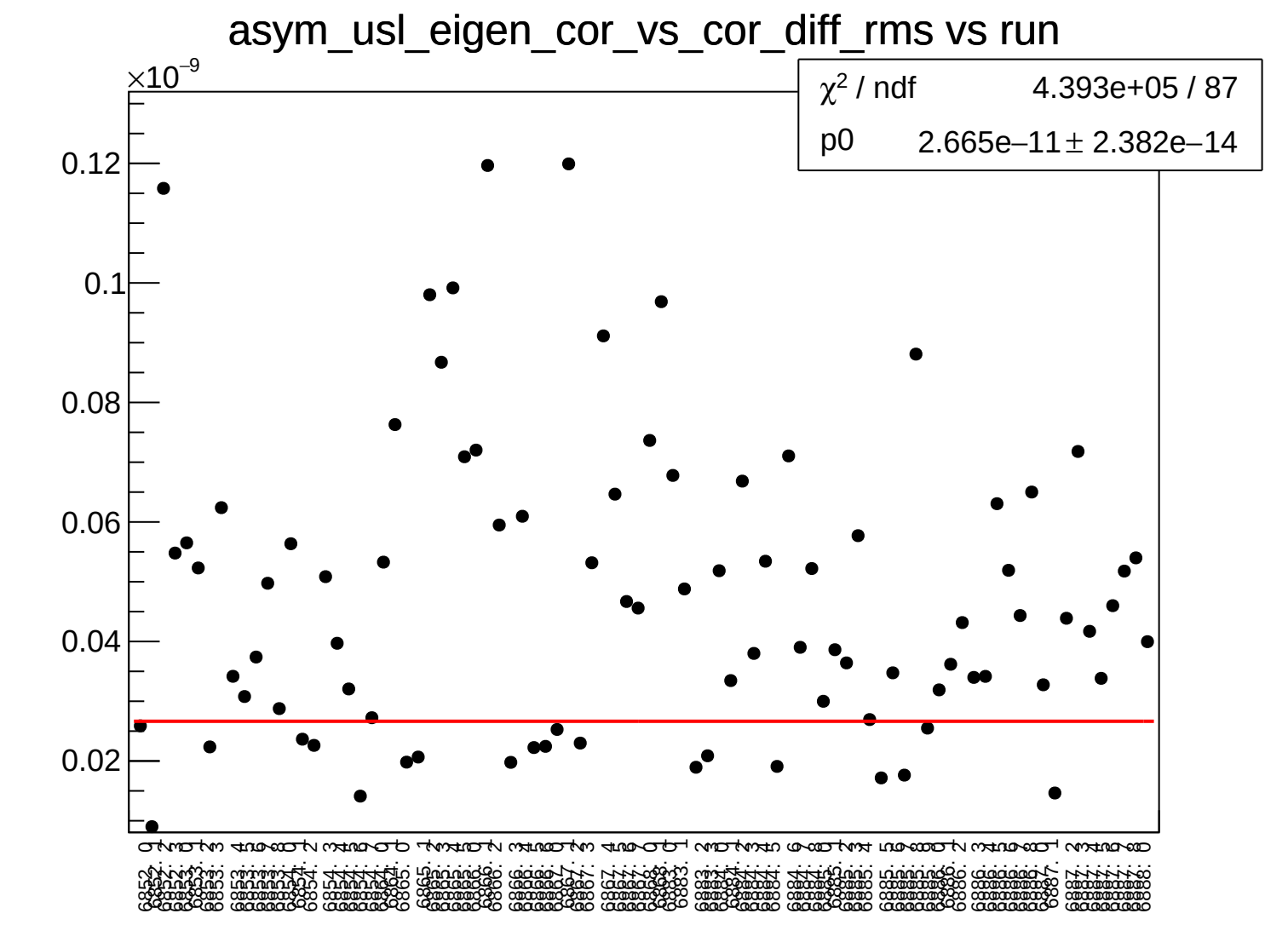


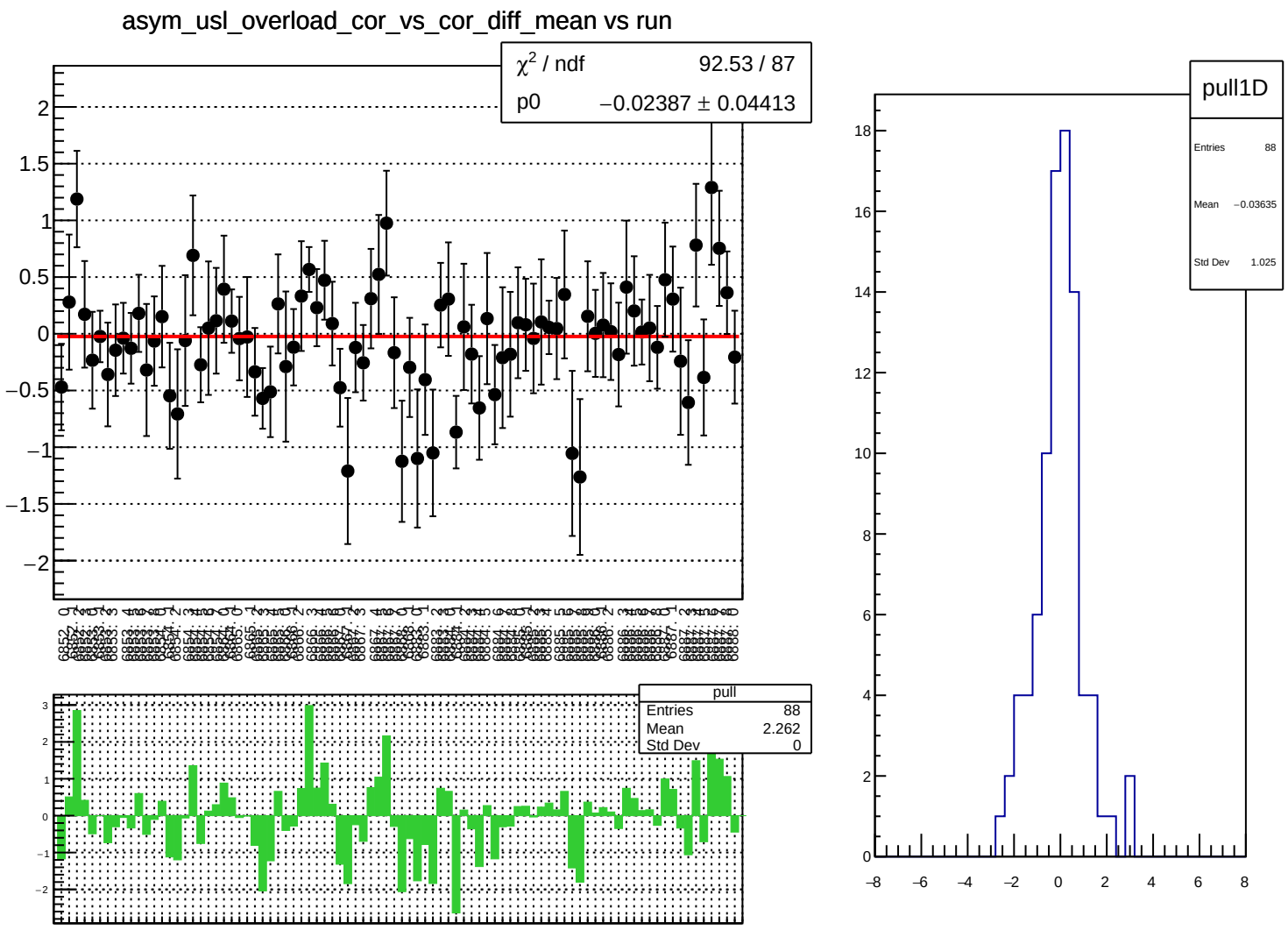

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.479e+05 / 87
p0 38.53 ± 0.03102
90
80
70
60
50
40
30
20

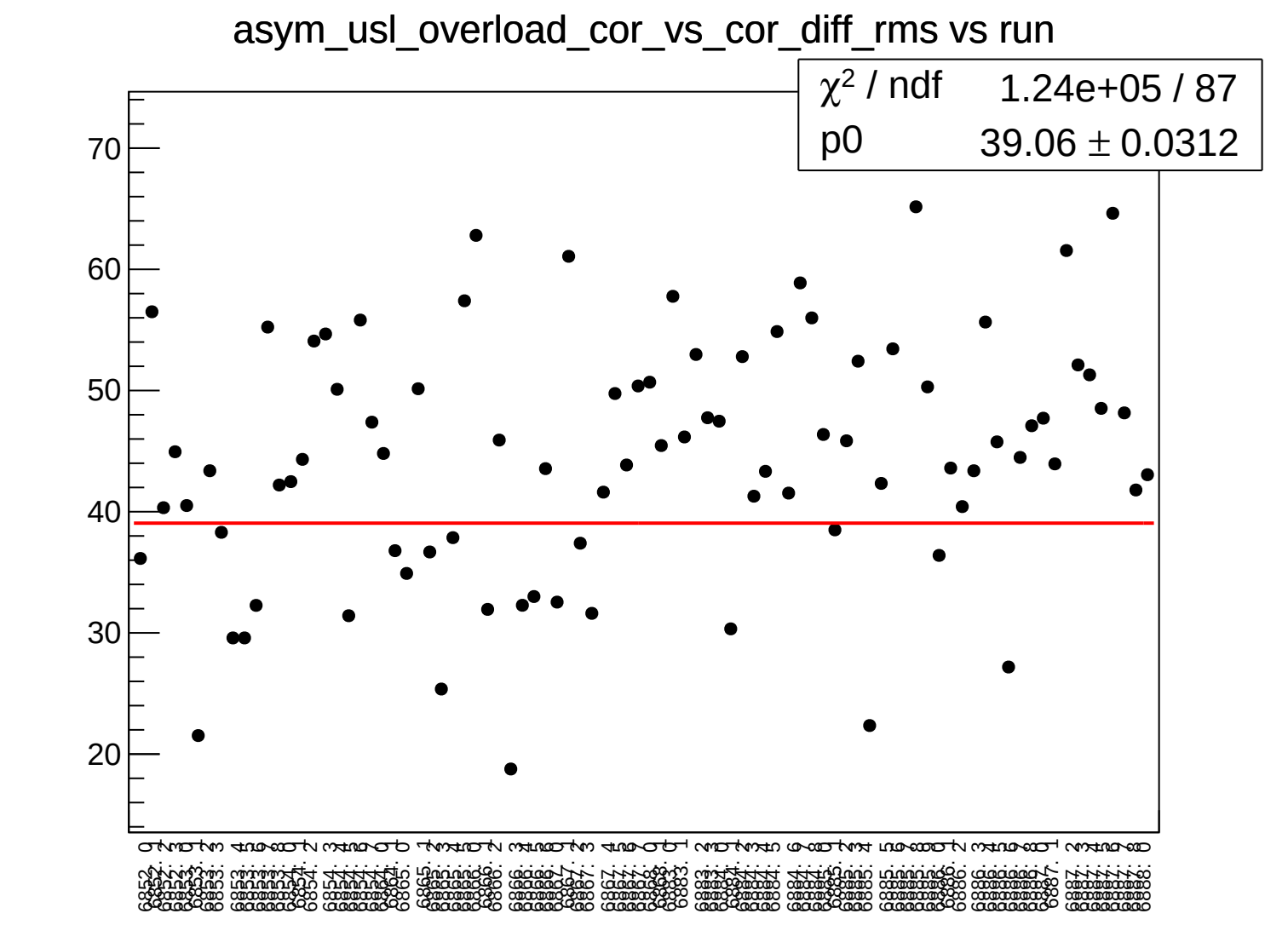

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.6 / 87
p0 −0.04072 ± 0.06828
pull
Entries 88
Mean −2.634
Std Dev 0
pull1D
Entries 88
Mean 0.04024
Std Dev 0.9797

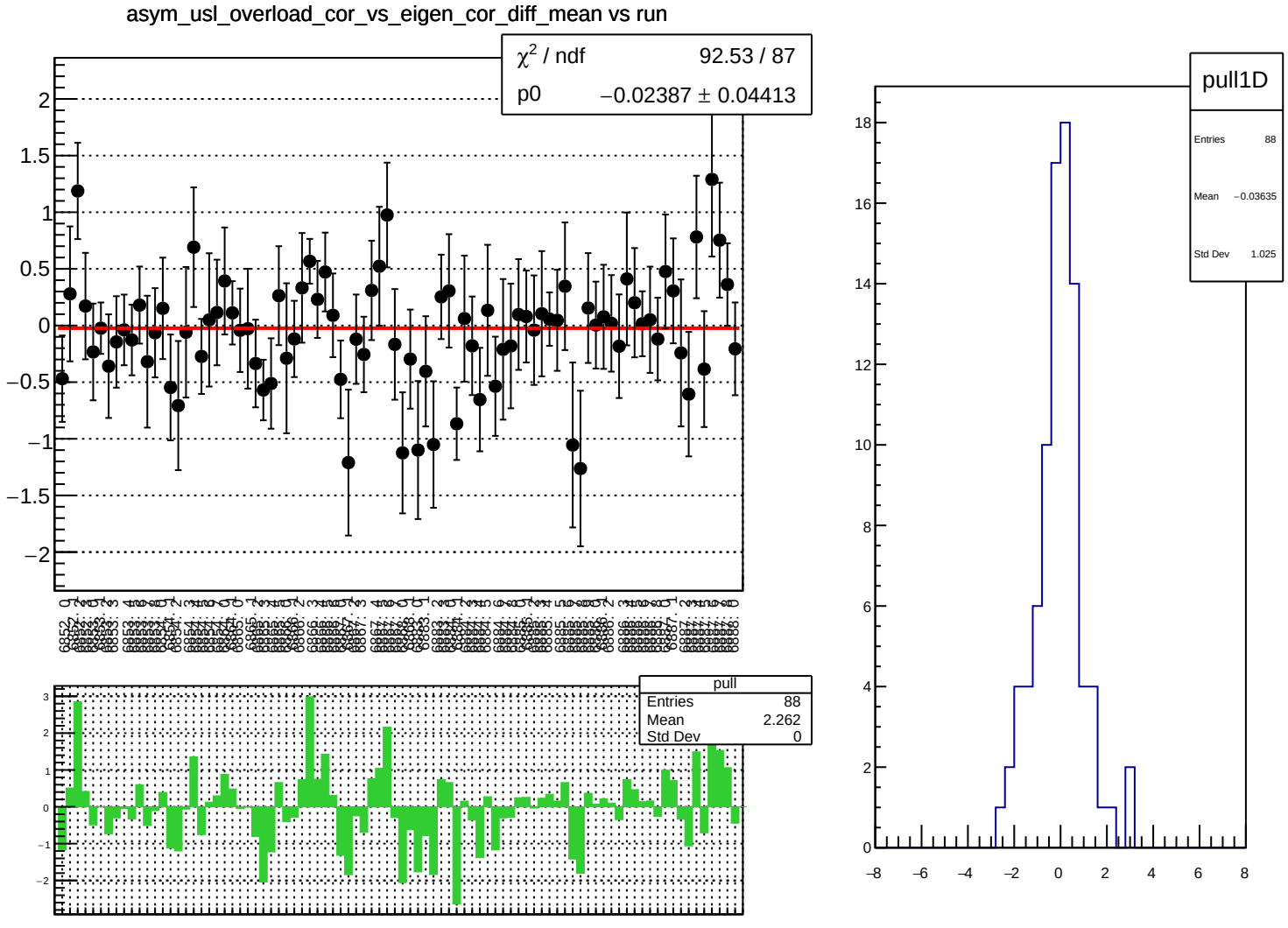

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.746e+04 / 87
p0 61.89 ± 0.04828
100
90
80
70
60
50
40

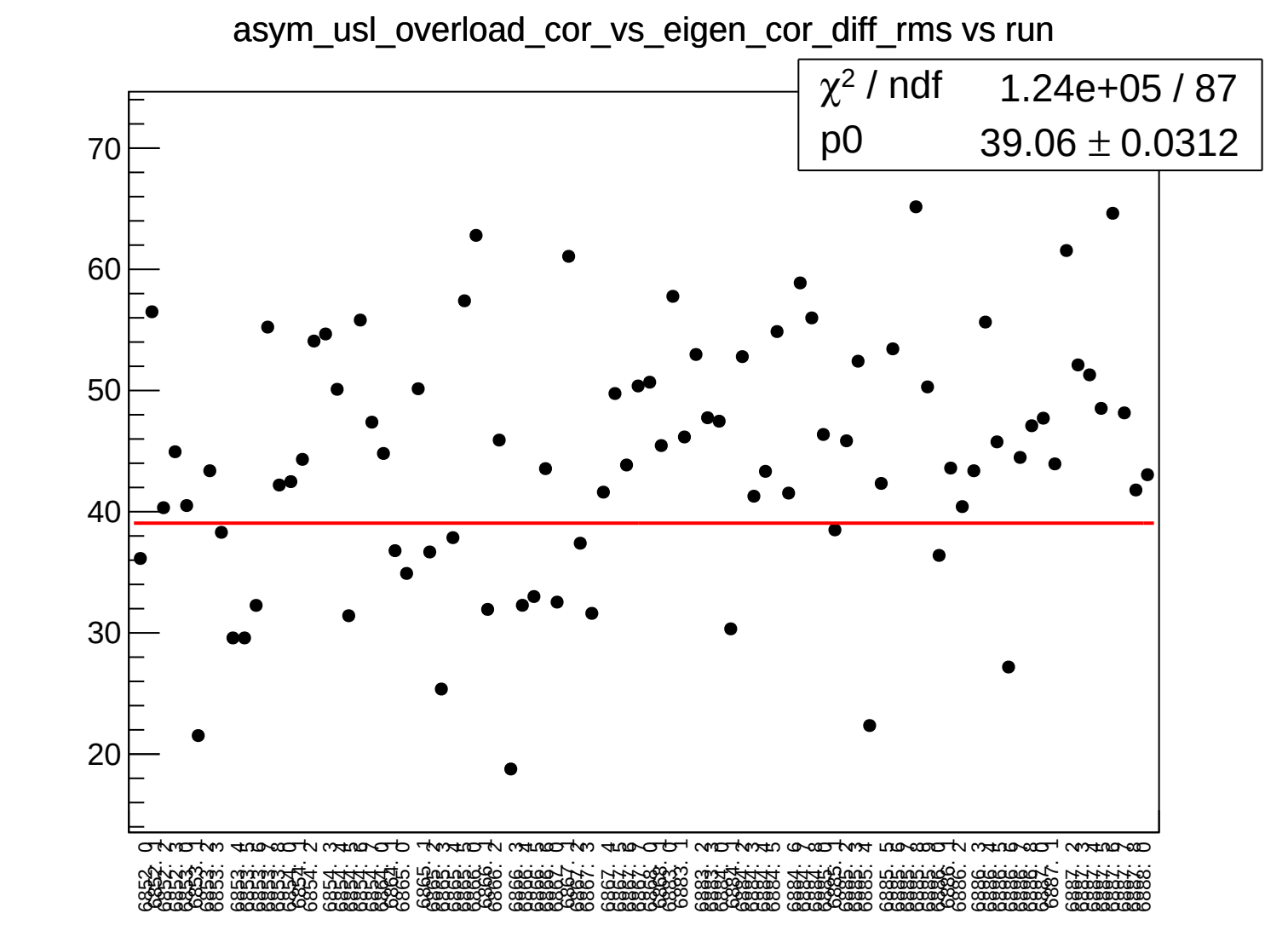

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.6 / 87
p0 4.819e−17 ± 3.369e−14
pull
Entries 88
Mean −21.82
Std Dev 0
pull1D
Entries 88
Mean −0.06284
Std Dev 1.089

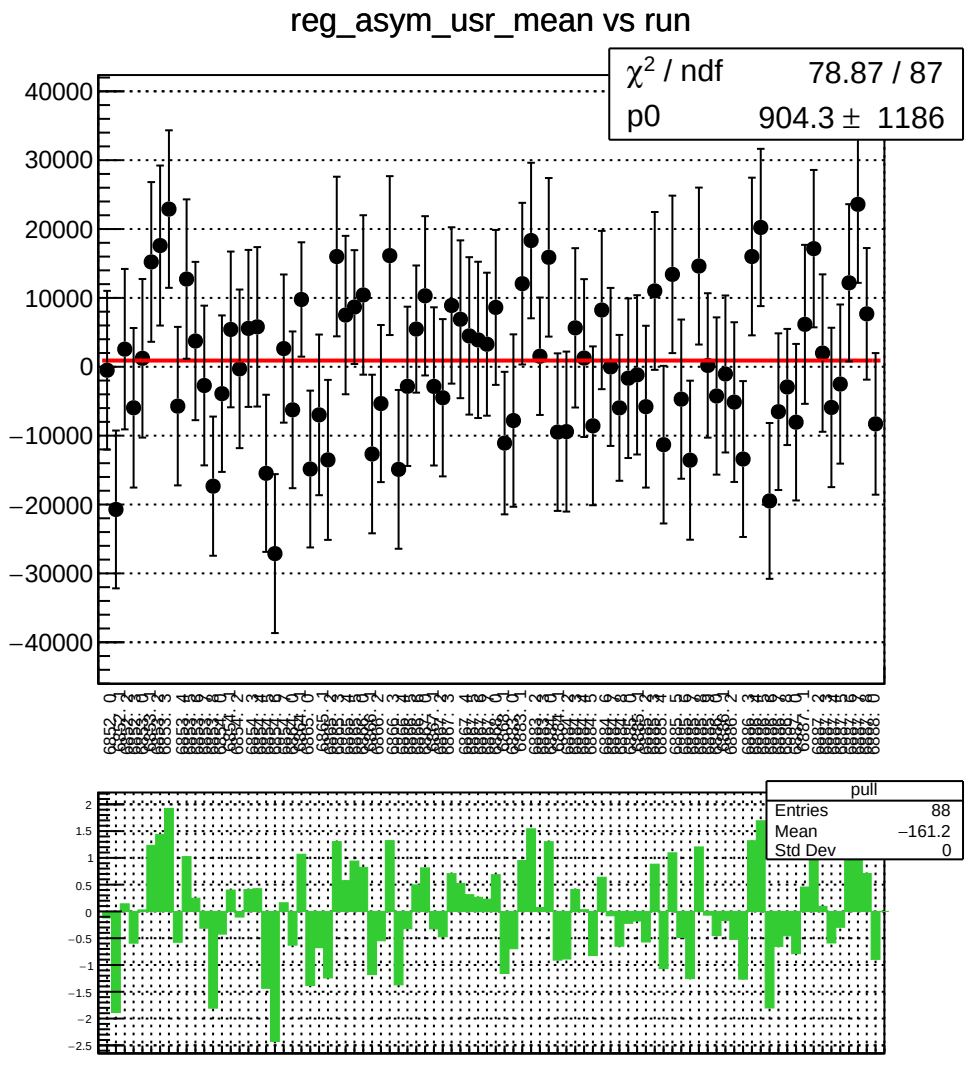

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.393e+05 / 87
p0 2.665e−11 ± 2.382e−14
0.12
0.1
0.08
0.06
0.04
0.02

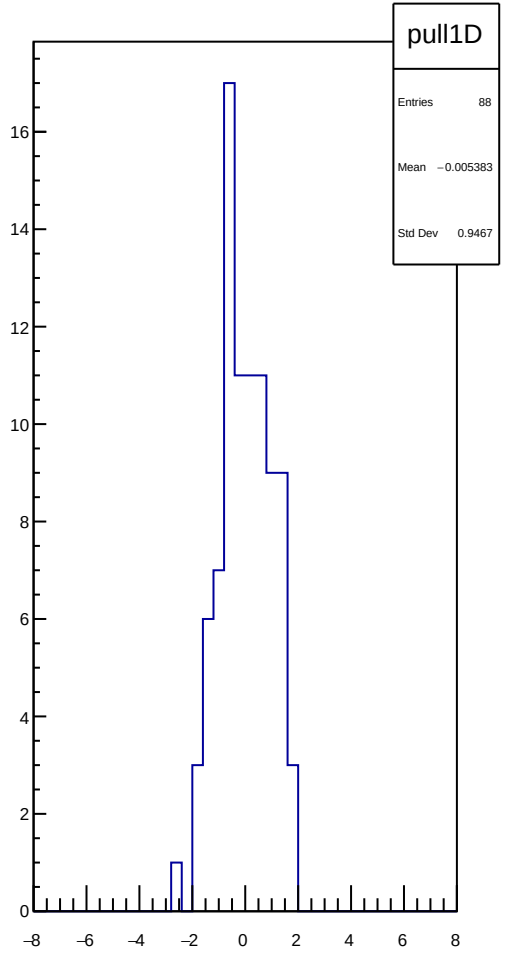

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 92.53 / 87
p0 −0.02387 ± 0.04413
pull
Entries 88
Mean 2.262
Std Dev 0
pull1D
Entries 88
Mean −0.03635
Std Dev 1.025

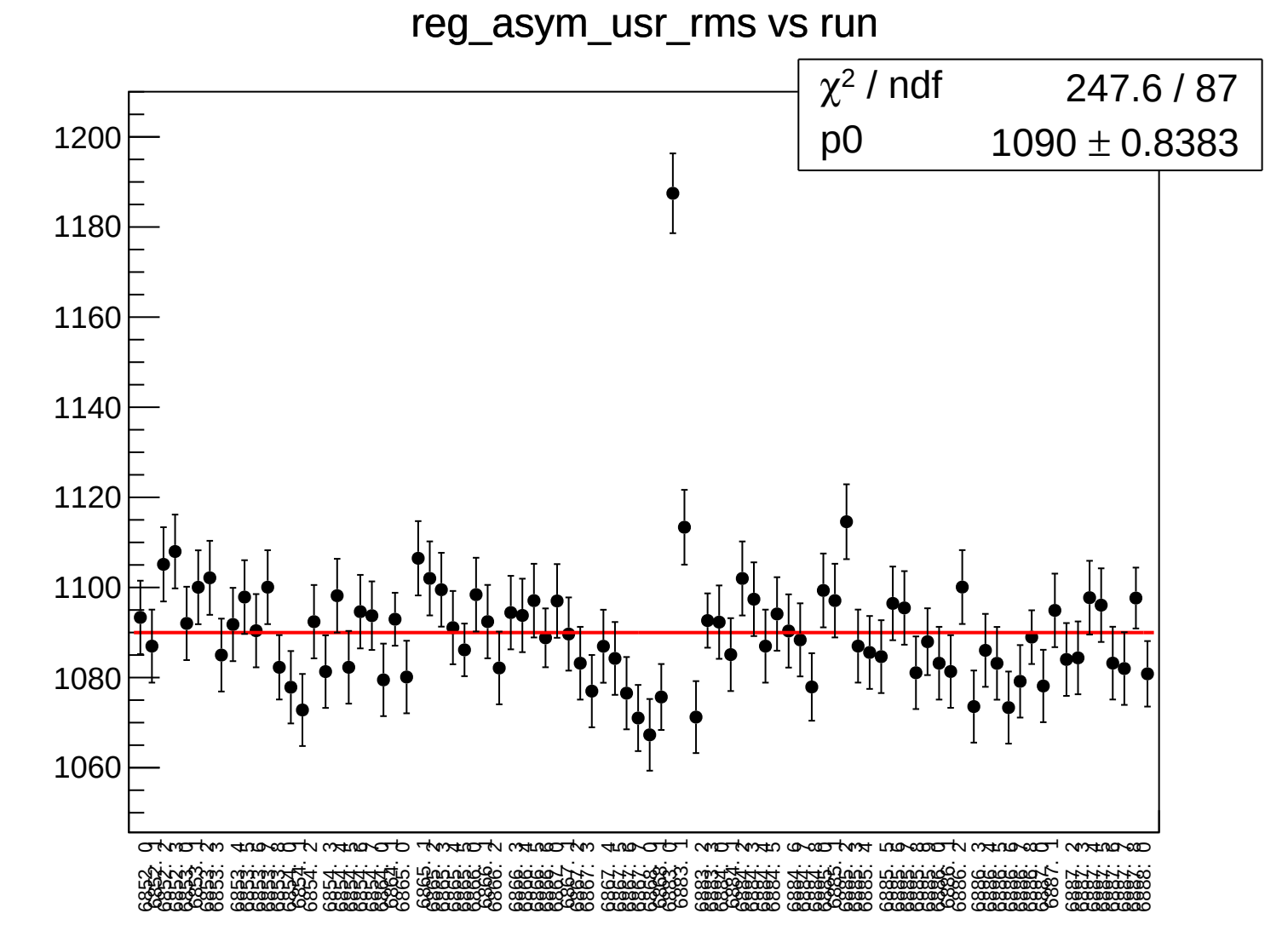

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.24e+05 / 87
p0 39.06 ± 0.0312
70
60
50
40
30
20

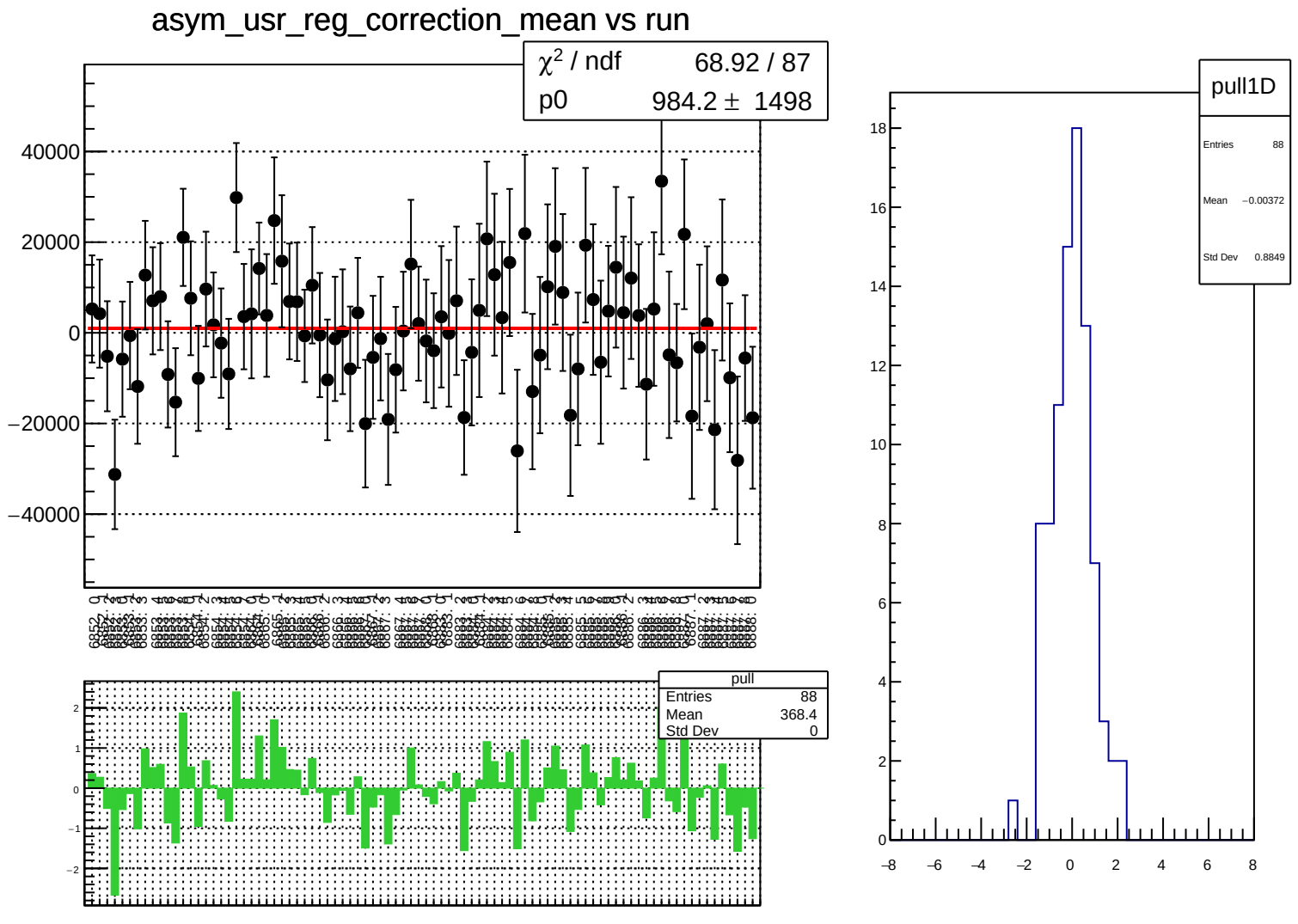

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.53 / 87
p0 −0.02387 ± 0.04413
pull
Entries 88
Mean 2.262
Std Dev 0
pull1D
Entries 88
Mean −0.03635
Std Dev 1.025

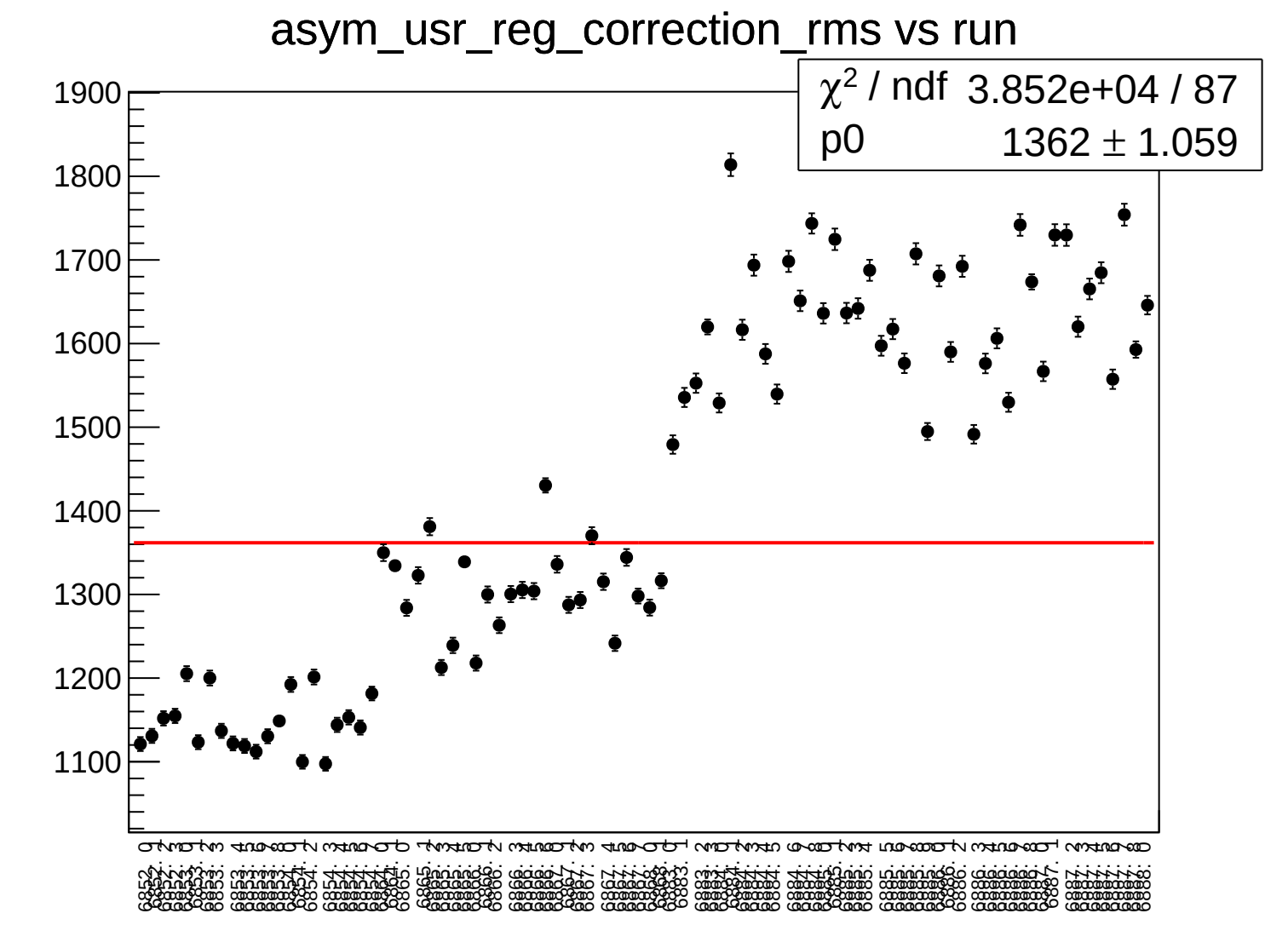

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.24e+05 / 87
p0 39.06 ± 0.0312
70
60
50
40
30
20

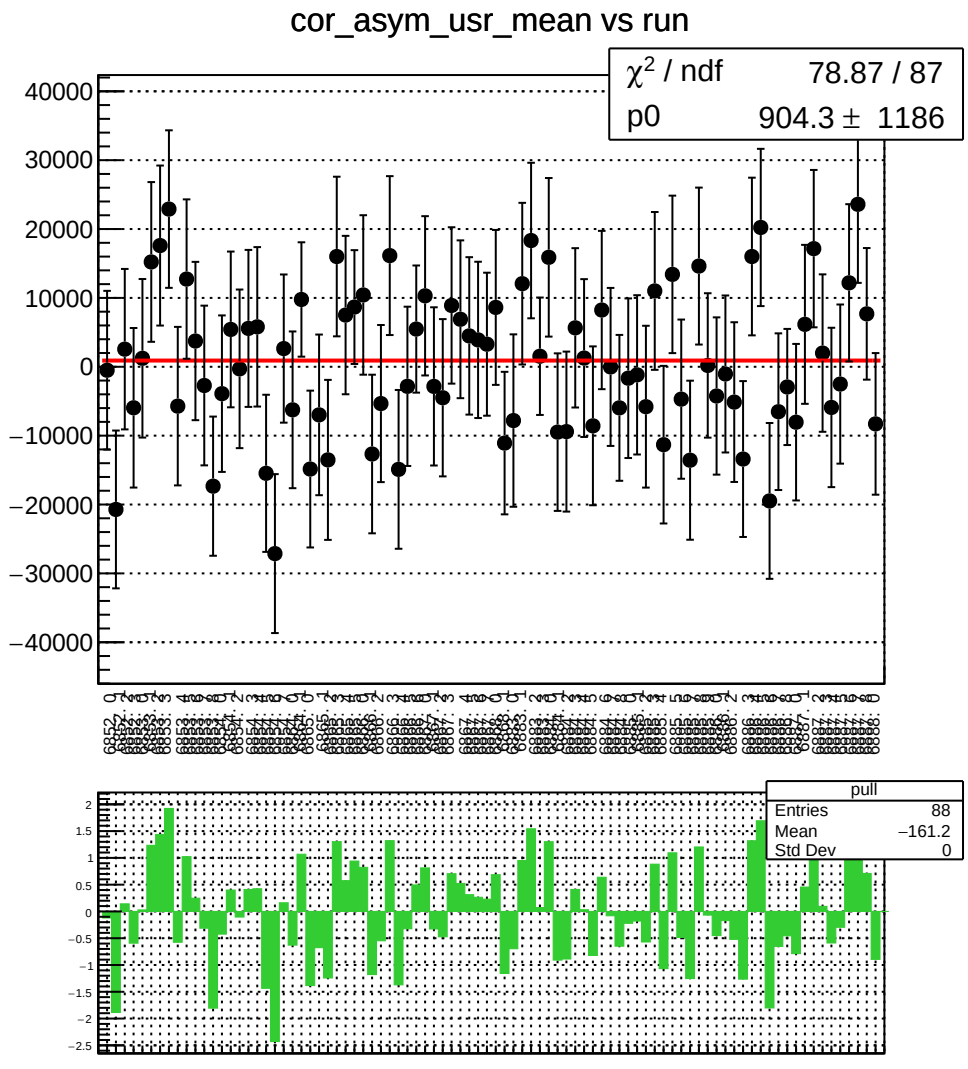

reg_asym_usr_mean vs run
χ² / ndf 78.87 / 87
p0 904.3 ± 1186
pull
Entries 88
Mean −161.2
Std Dev 0

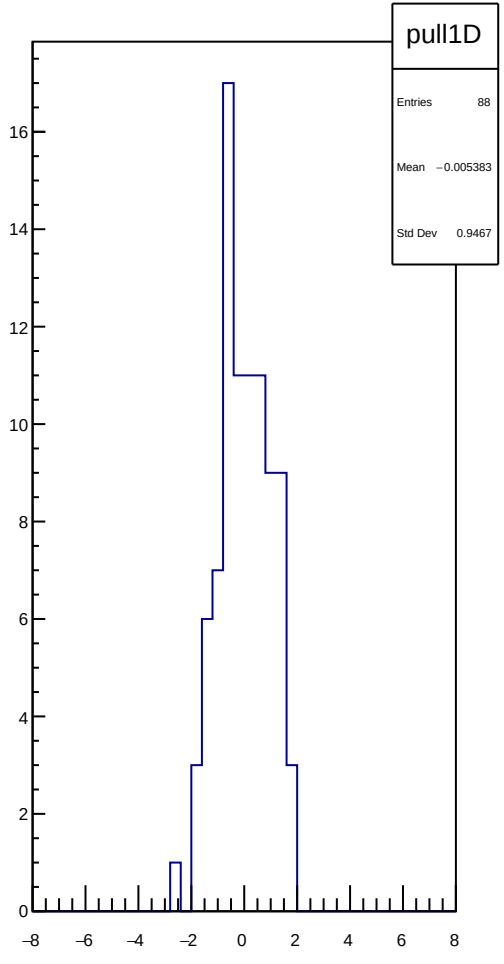

pull1D
Entries 88
Mean −0.005383
Std Dev 0.9467

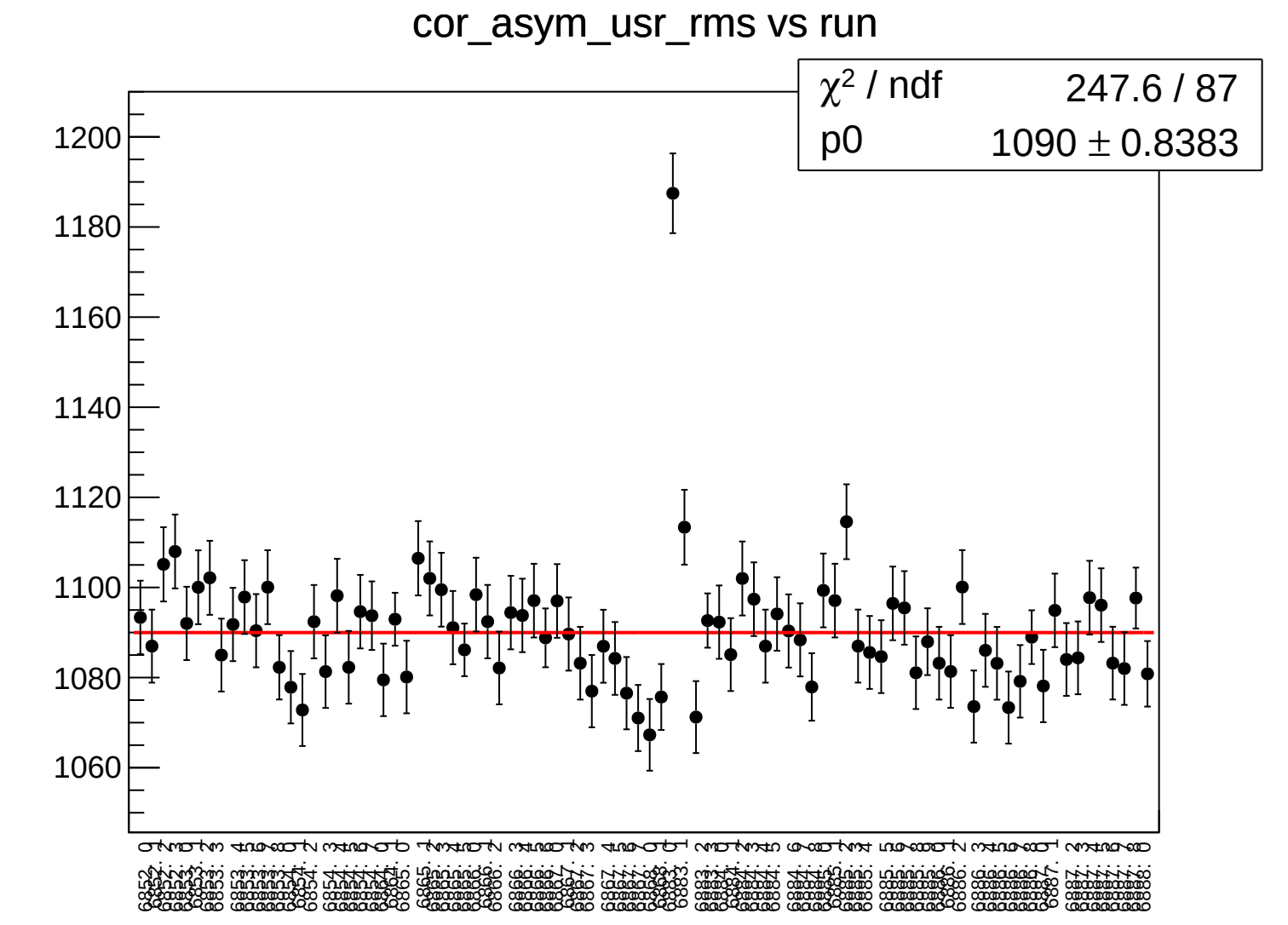

reg_asym_usr_rms vs run
χ^2 / ndf 247.6 / 87
p0 1090 ± 0.8383
1200
1180
1160
1140
1120
1100
1080
1060

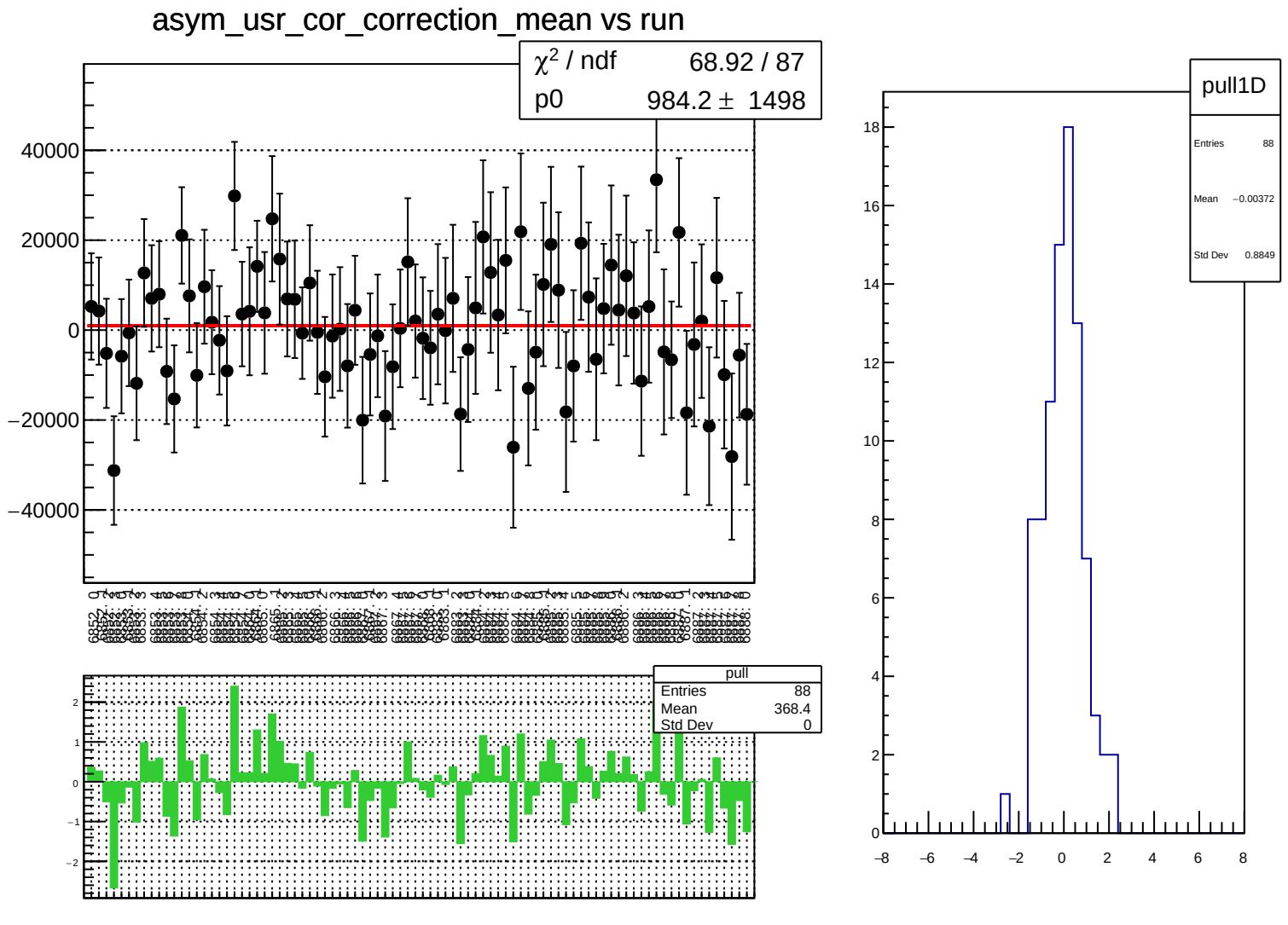

asym_usr_reg_correction_mean vs run
χ² / ndf 68.92 / 87
p0 984.2 ± 1498
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 368.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00372
Std Dev 0.8849
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

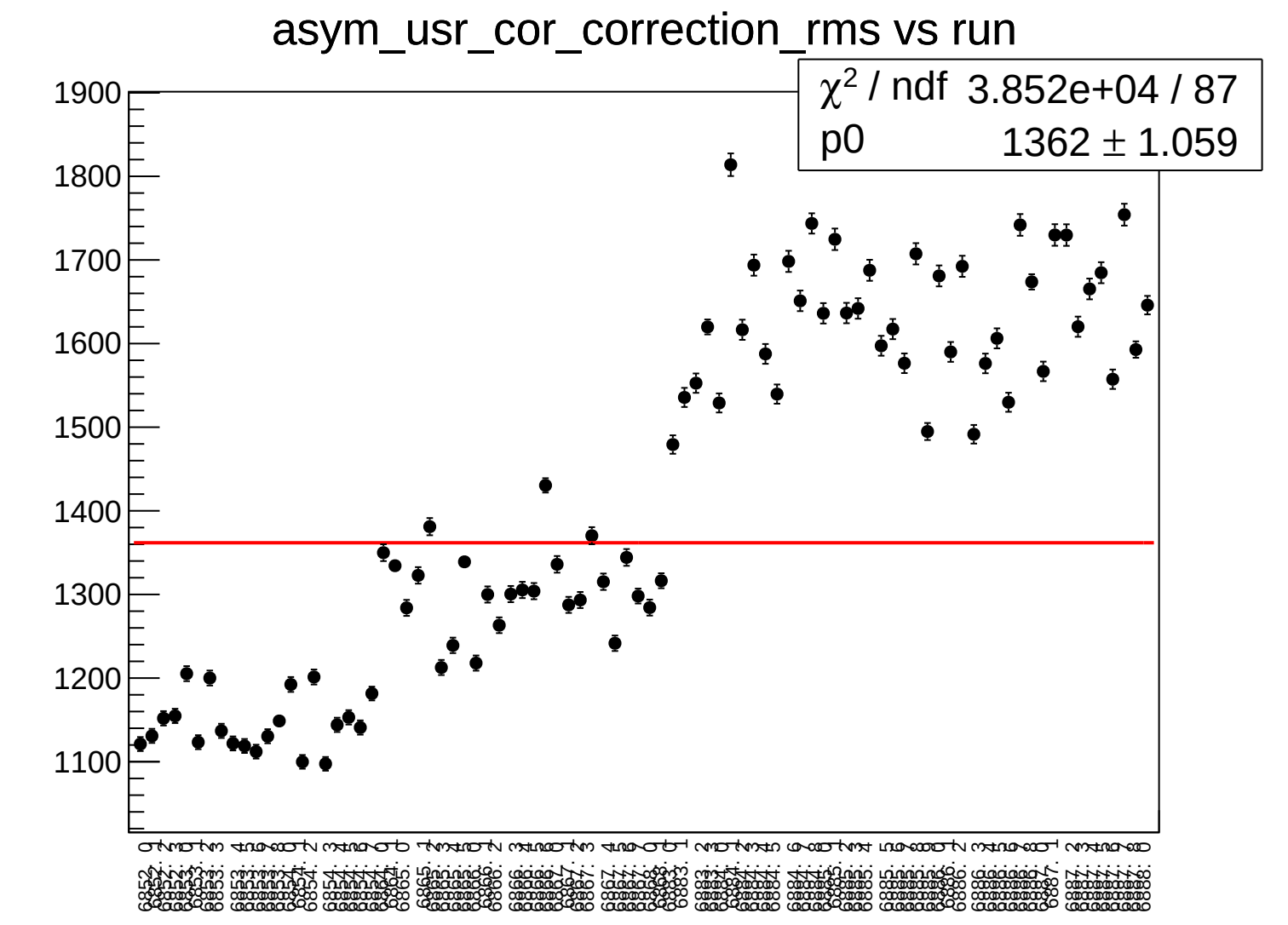

asym_usr_reg_correction_rms vs run
χ² / ndf 3.852e+04 / 87
p0 1362 ± 1.059
1900
1800
1700
1600
1500
1400
1300
1200
1100

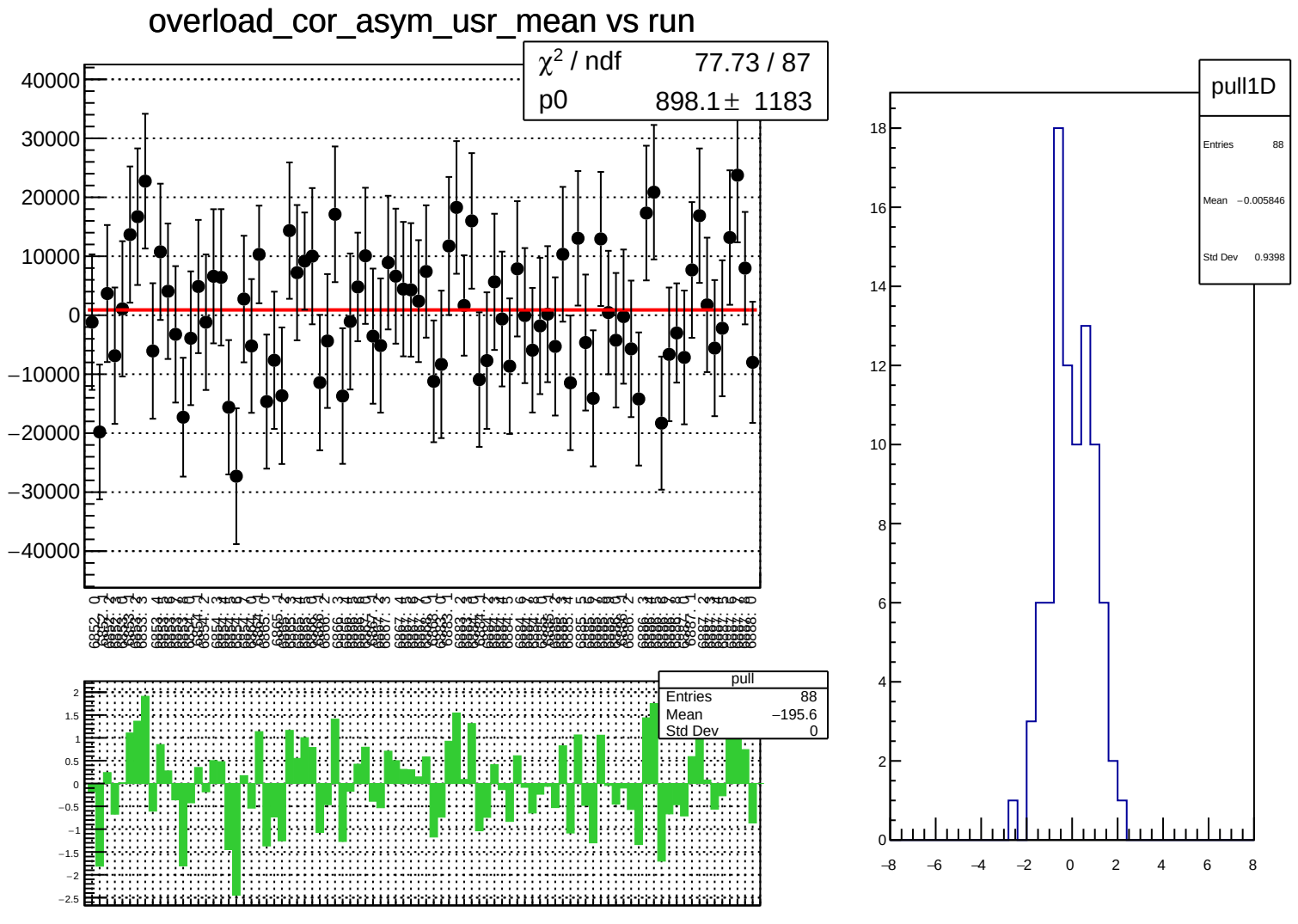

cor_asym_usr_mean vs run
χ² / ndf 78.87 / 87
p0 904.3 ± 1186
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −161.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 88
Mean −0.005383
Std Dev 0.9467
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

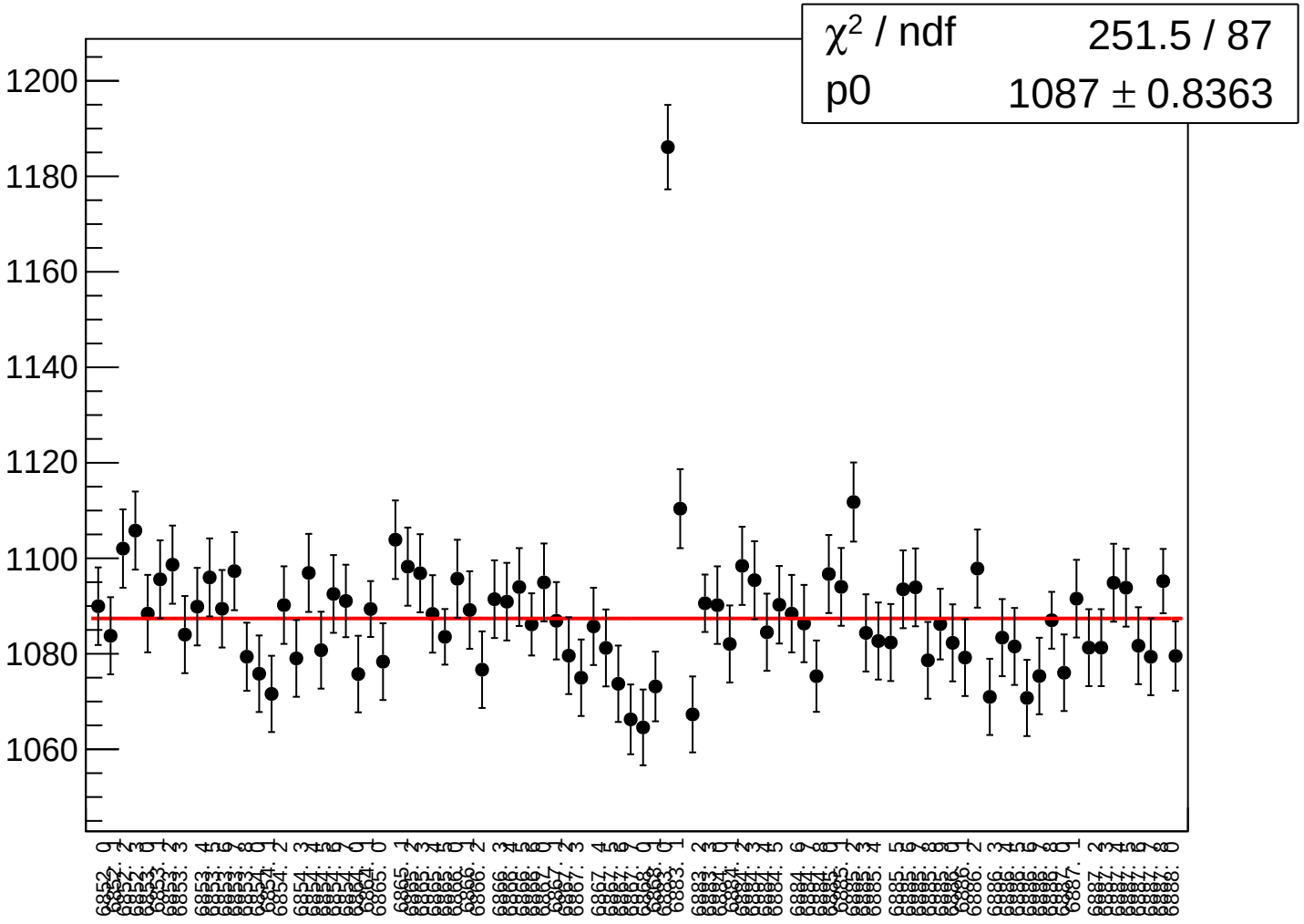

cor_asym_usr_rms vs run
χ² / ndf 247.6 / 87
p0 1090 ± 0.8383
1200
1180
1160
1140
1120
1100
1080
1060

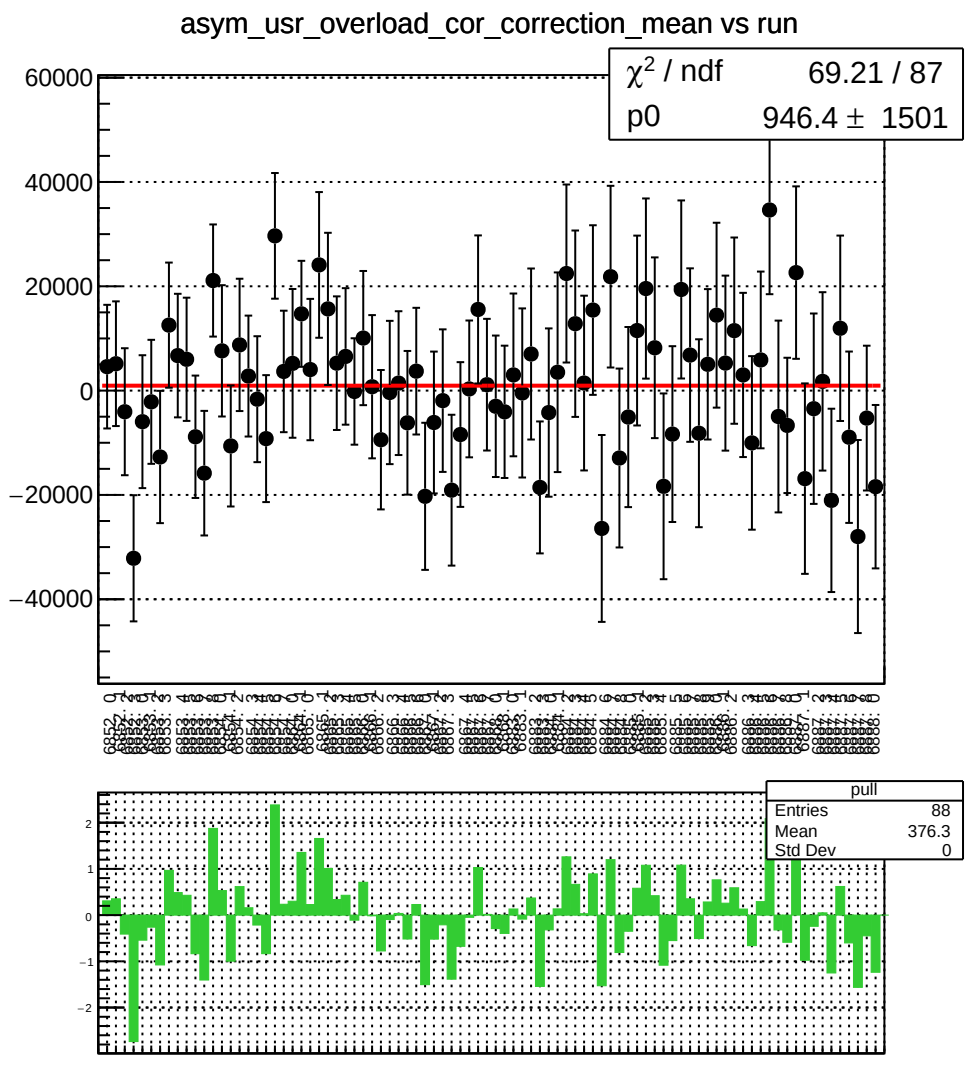

asym_usr_cor_correction_mean vs run
χ² / ndf 68.92 / 87
p0 984.2 ± 1498
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 368.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00372
Std Dev 0.8849
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

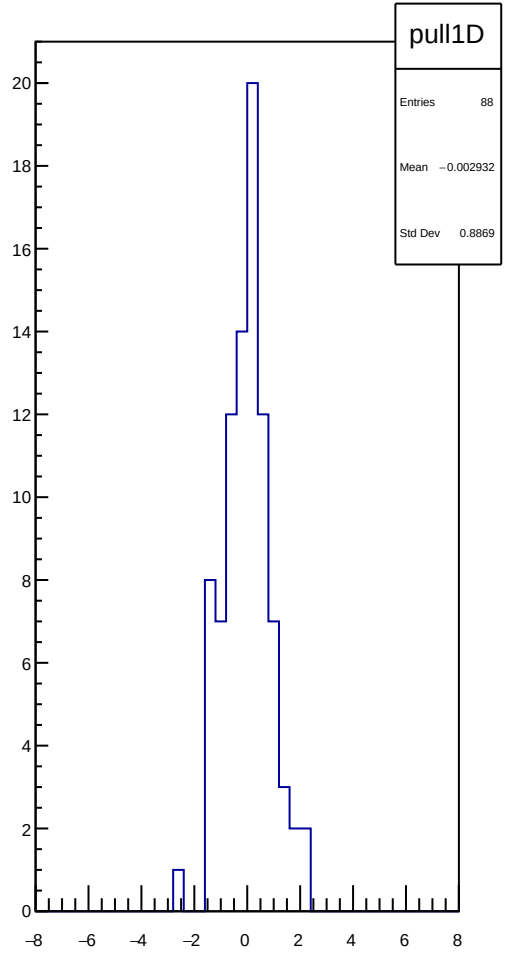

asym_usr_cor_correction_rms vs run
χ² / ndf 3.852e+04 / 87
p0 1362 ± 1.059
1900
1800
1700
1600
1500
1400
1300
1200
1100

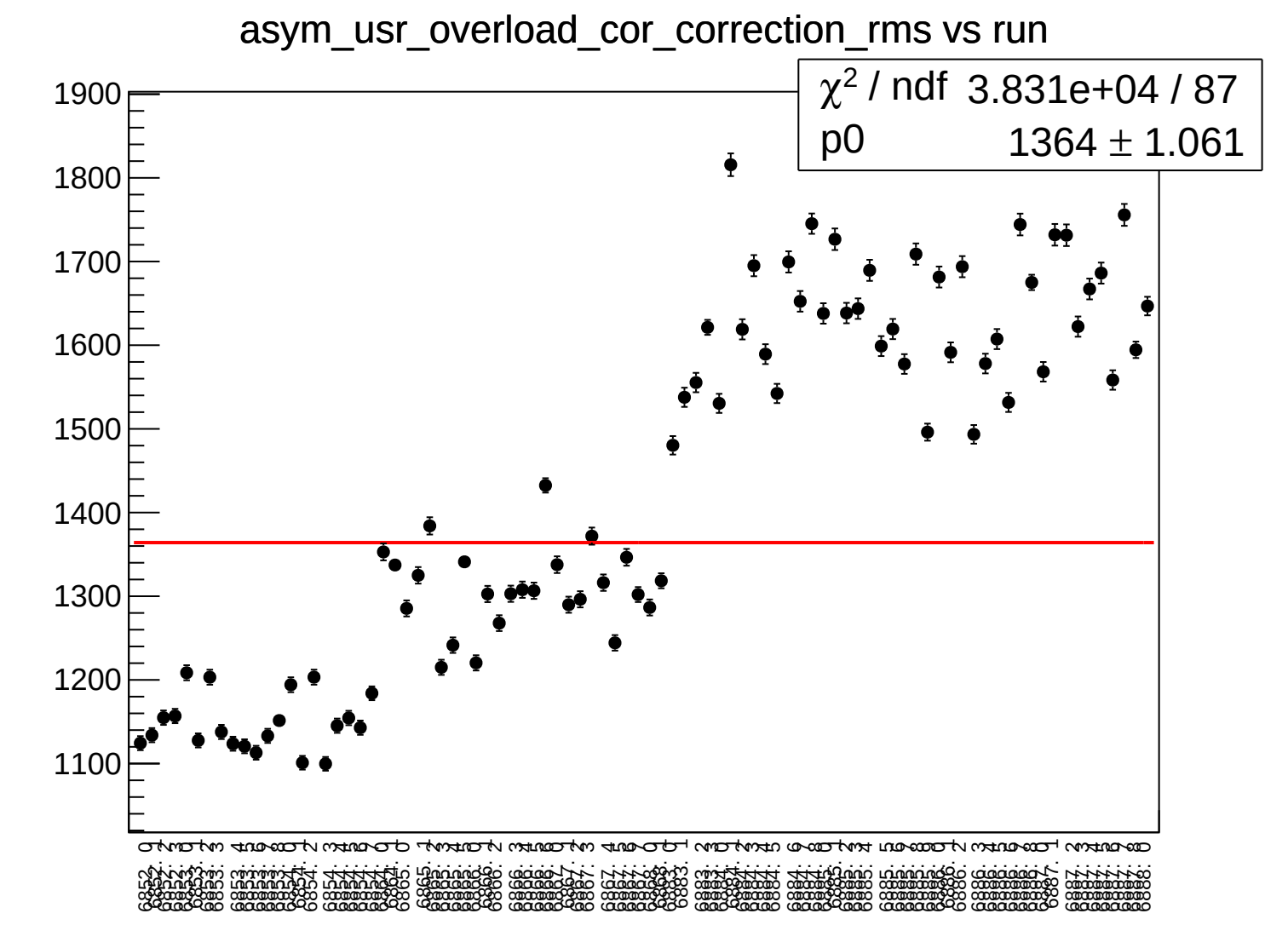

overload_cor_asym_usr_mean vs run
χ² / ndf 77.73 / 87
p0 898.1 ± 1183
pull
Entries 88
Mean −195.6
Std Dev 0
pull1D
Entries 88
Mean −0.005846
Std Dev 0.9398

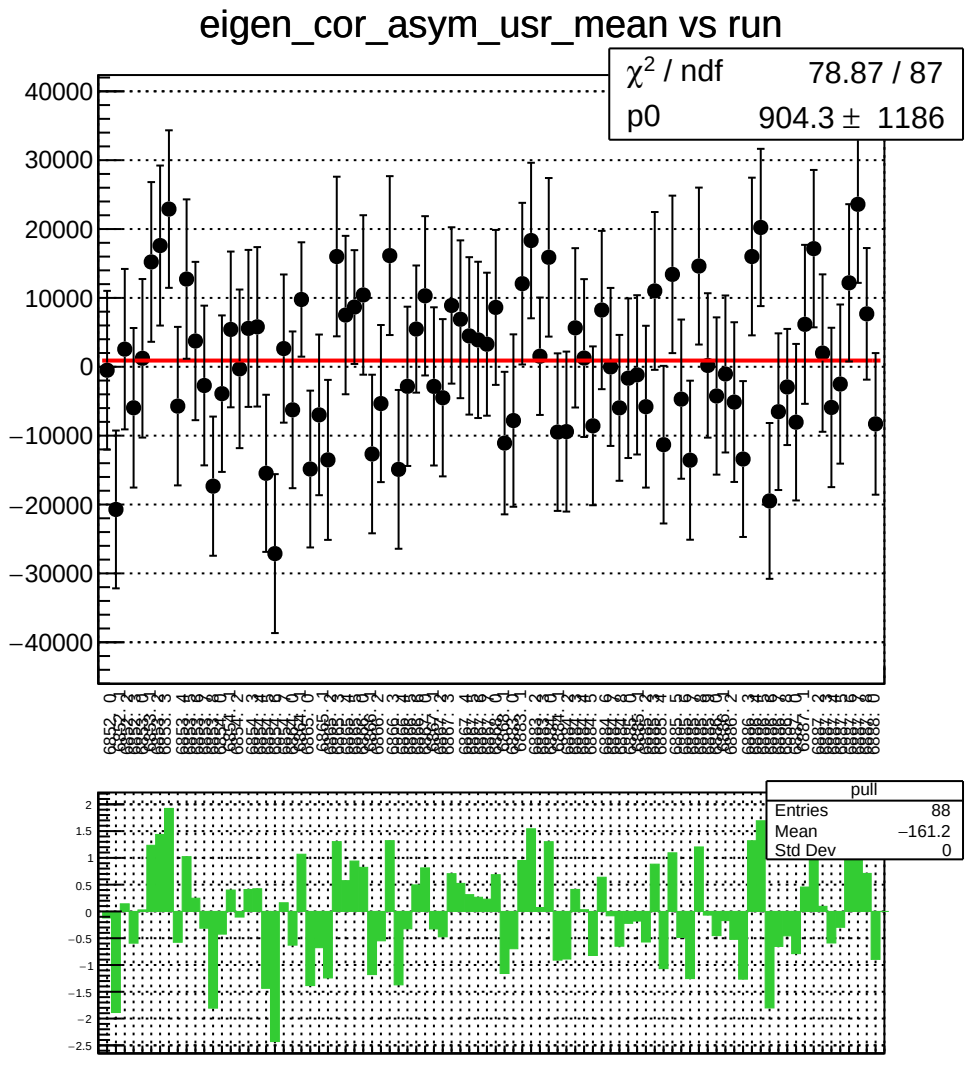
overload_cor_asym_usr_rms vs run

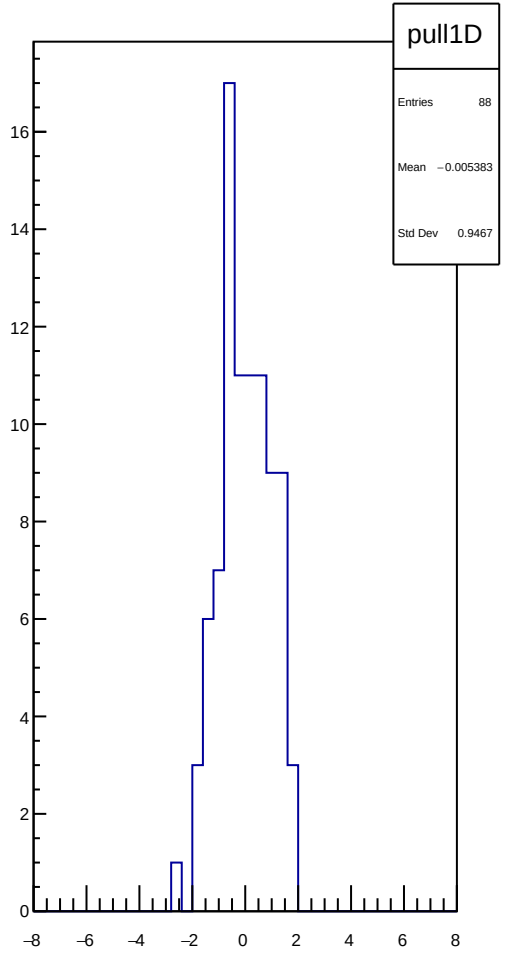


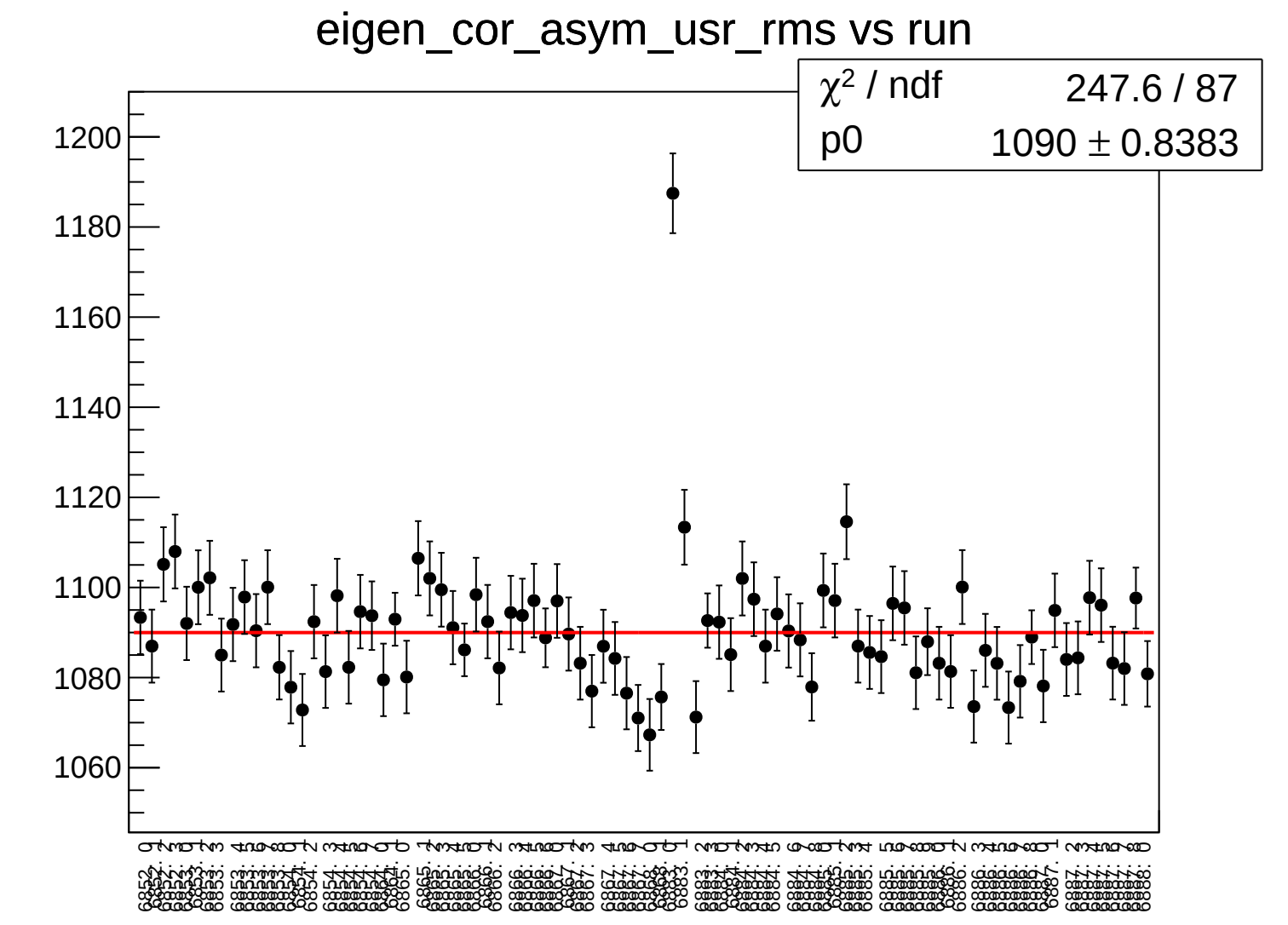

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 69.21 / 87
p0 946.4 ± 1501
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 376.3
Std Dev 0
2
1
0
−1
−2

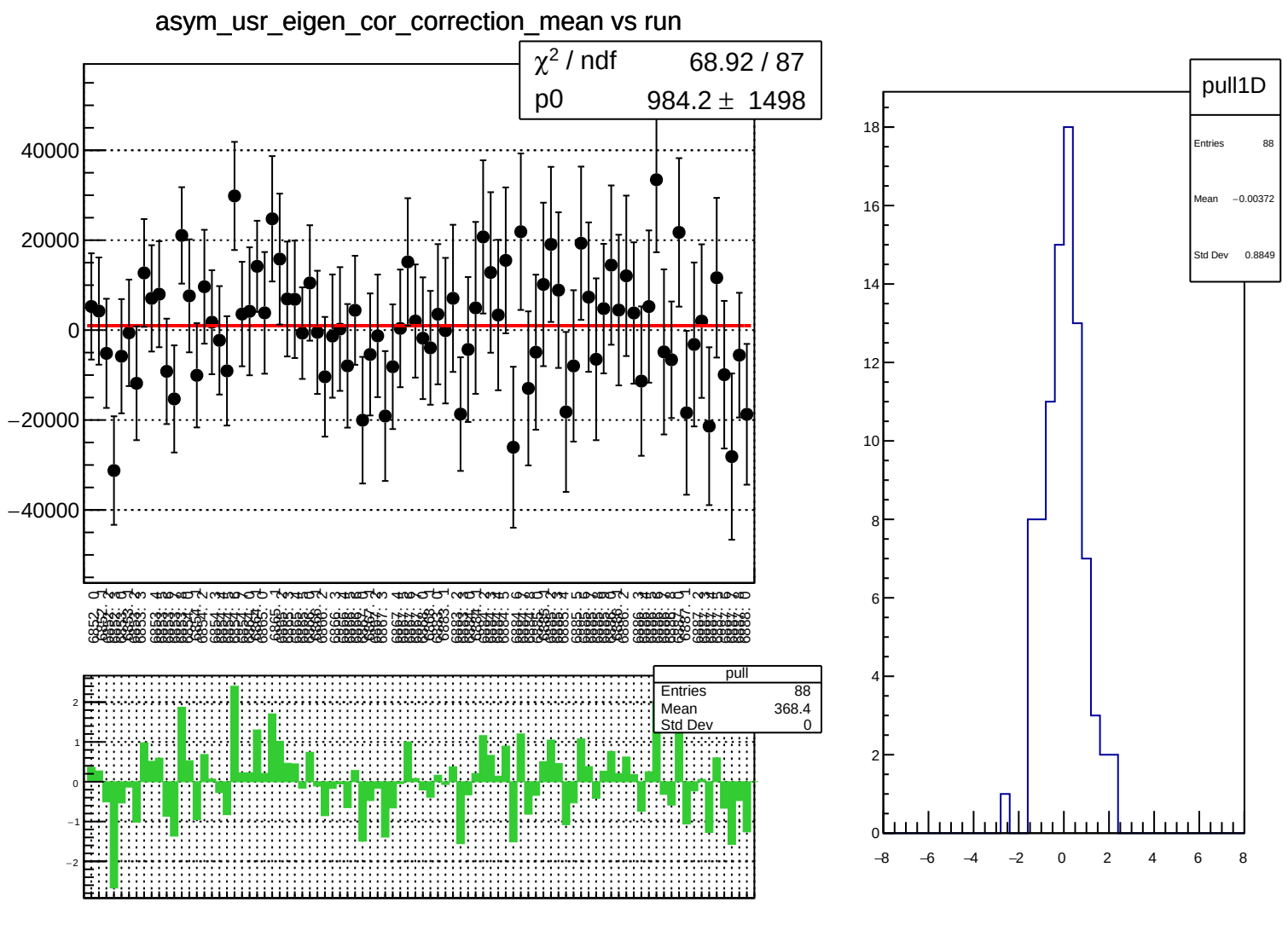

pull1D
Entries 88
Mean −0.002932
Std Dev 0.8869
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

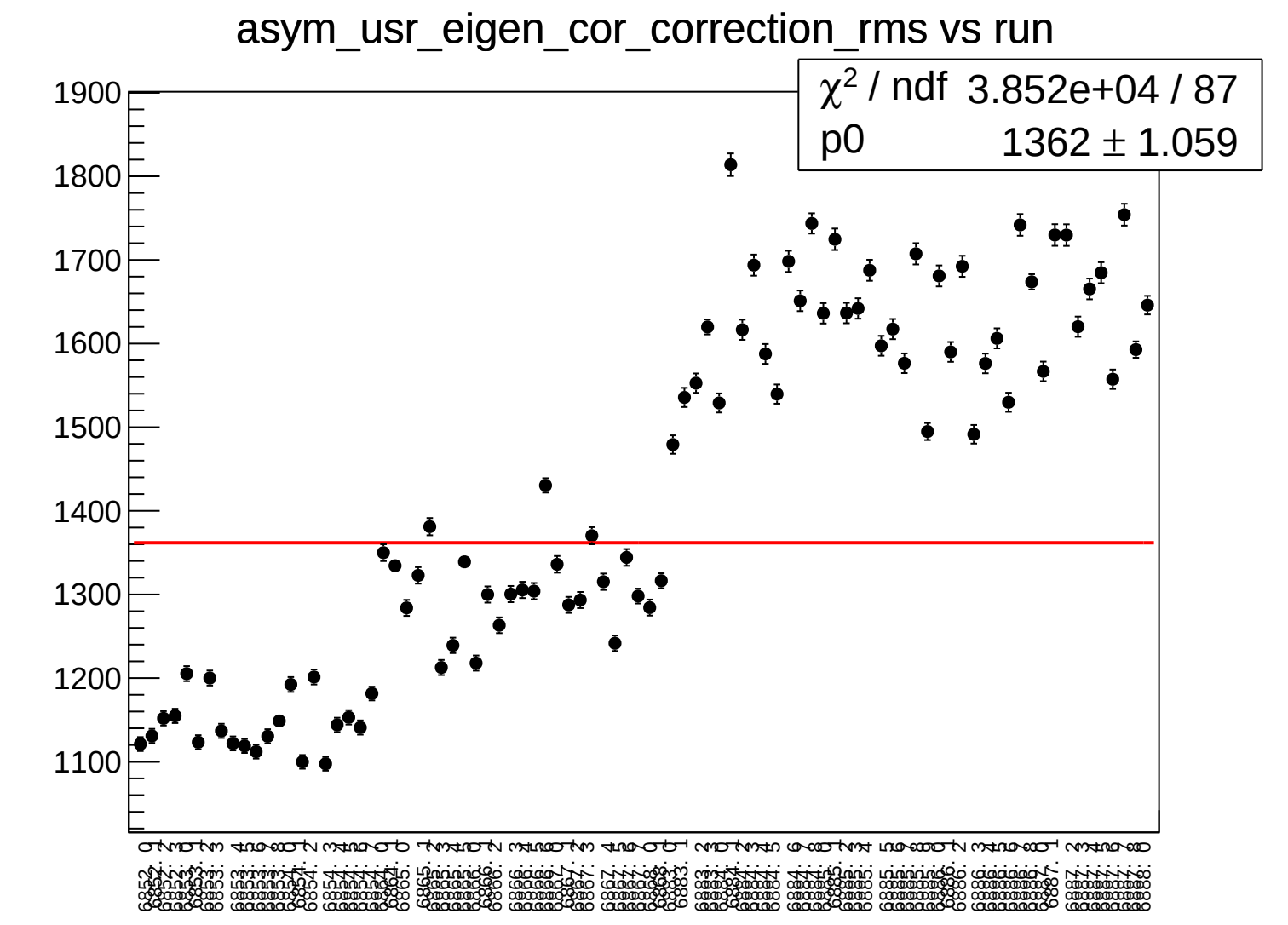

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 3.831e+04 / 87
p0 1364 ± 1.061
1900
1800
1700
1600
1500
1400
1300
1200
1100

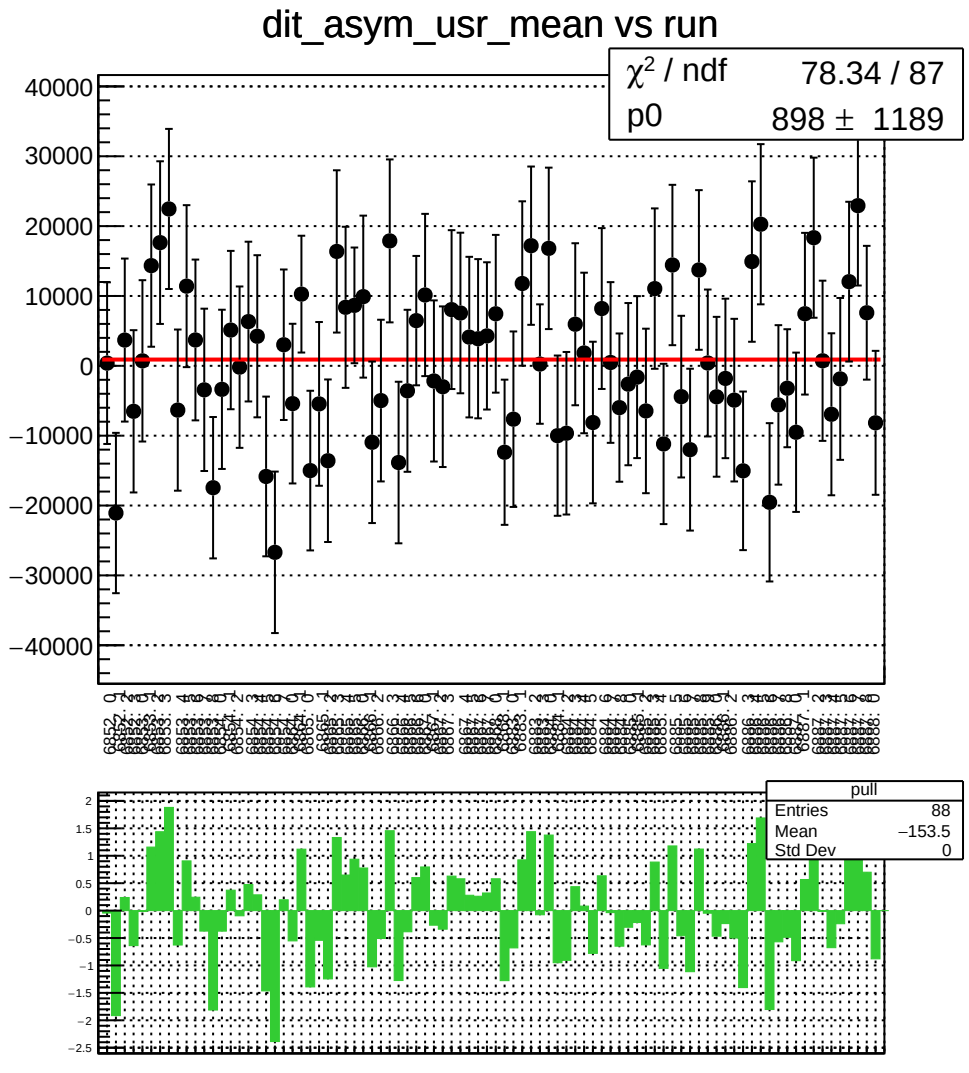

eigen_cor_asym_usr_mean vs run
χ² / ndf 78.87 / 87
p0 904.3 ± 1186
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −161.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

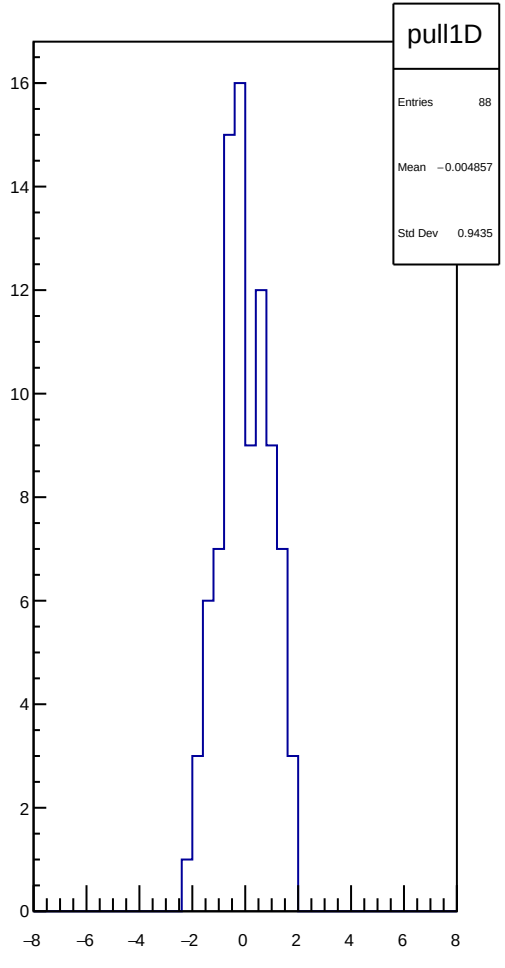

pull1D
Entries 88
Mean −0.005383
Std Dev 0.9467
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

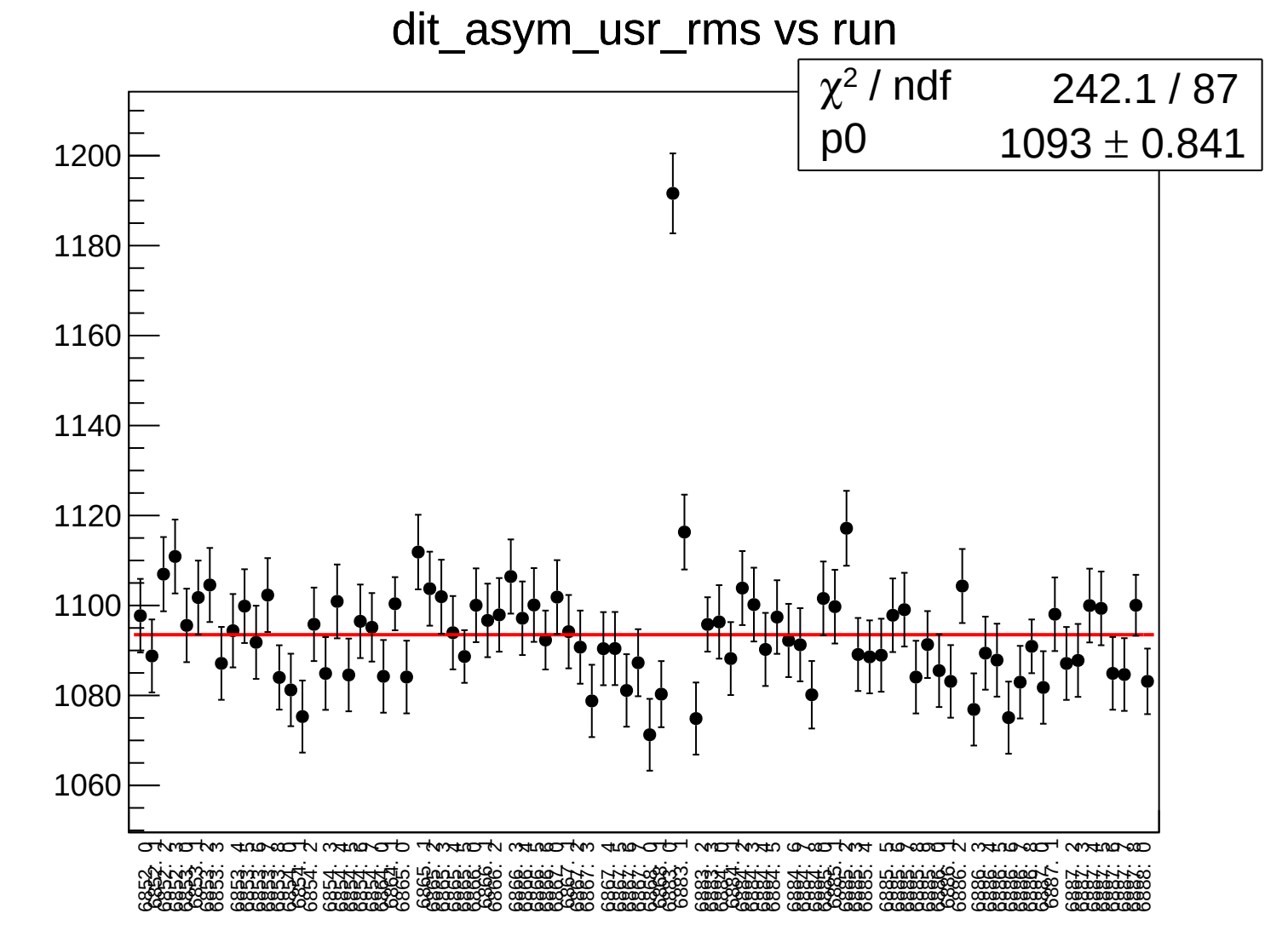

eigen_cor_asym_usr_rms vs run
χ² / ndf 247.6 / 87
p0 1090 ± 0.8383
1200
1180
1160
1140
1120
1100
1080
1060

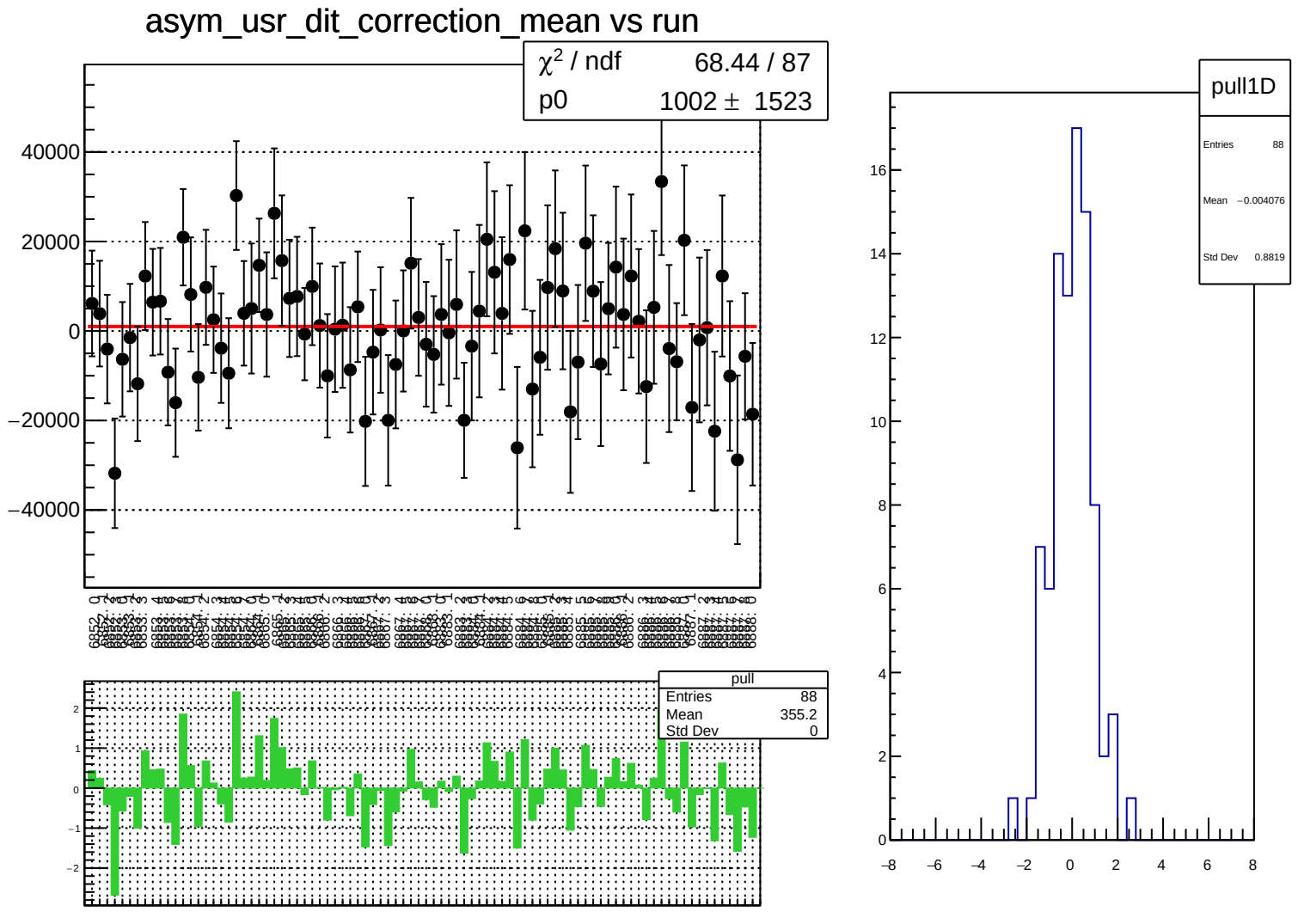

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 68.92 / 87
p0 984.2 ± 1498
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 368.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00372
Std Dev 0.8849
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

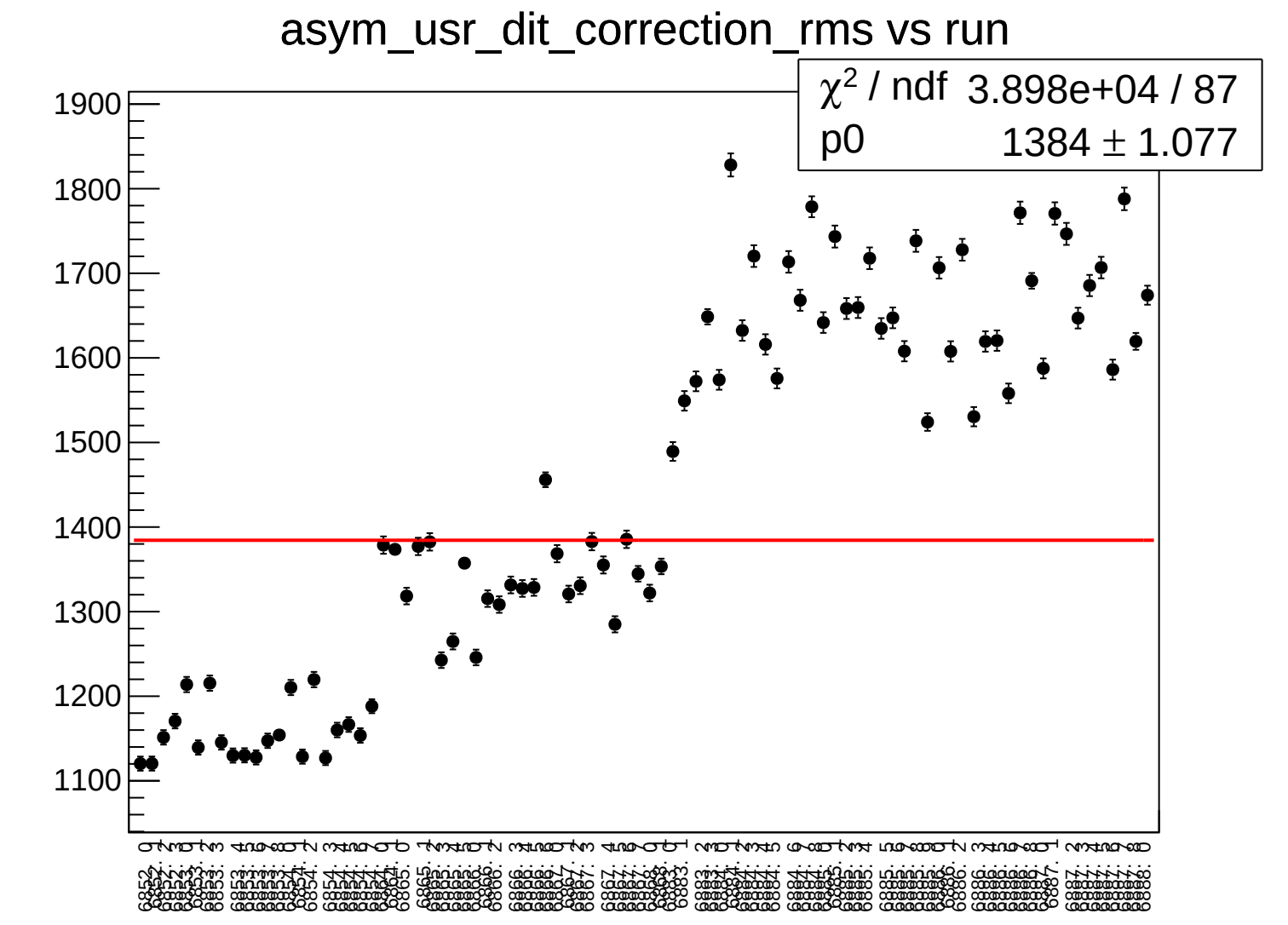

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 3.852e+04 / 87
p0 1362 ± 1.059
1900
1800
1700
1600
1500
1400
1300
1200
1100

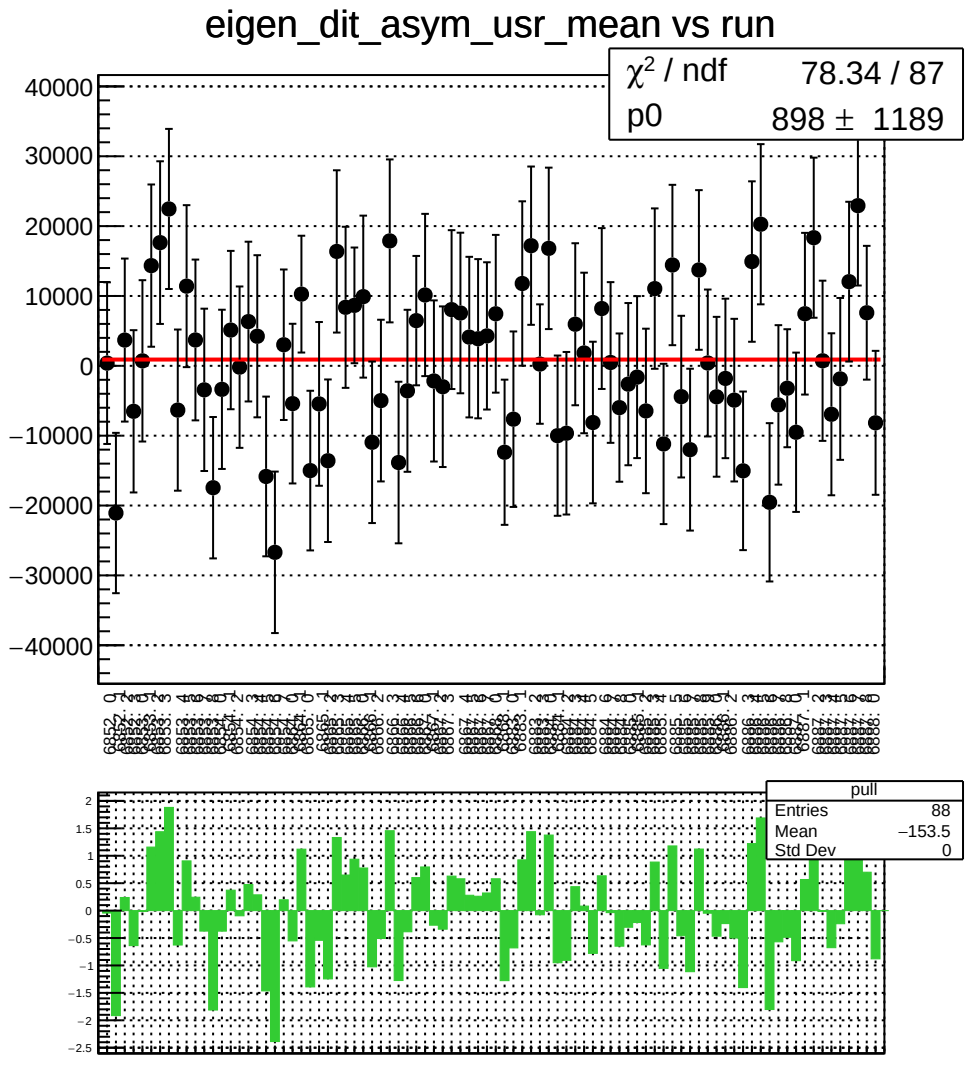

dit_asym_usr_mean vs run
χ² / ndf 78.34 / 87
p0 898 ± 1189
pull
Entries 88
Mean −153.5
Std Dev 0

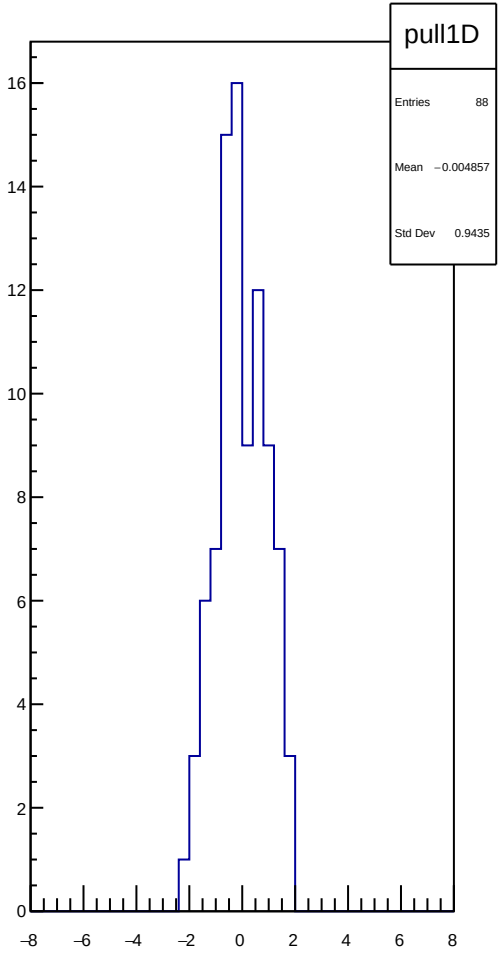

pull1D
Entries 88
Mean −0.004857
Std Dev 0.9435

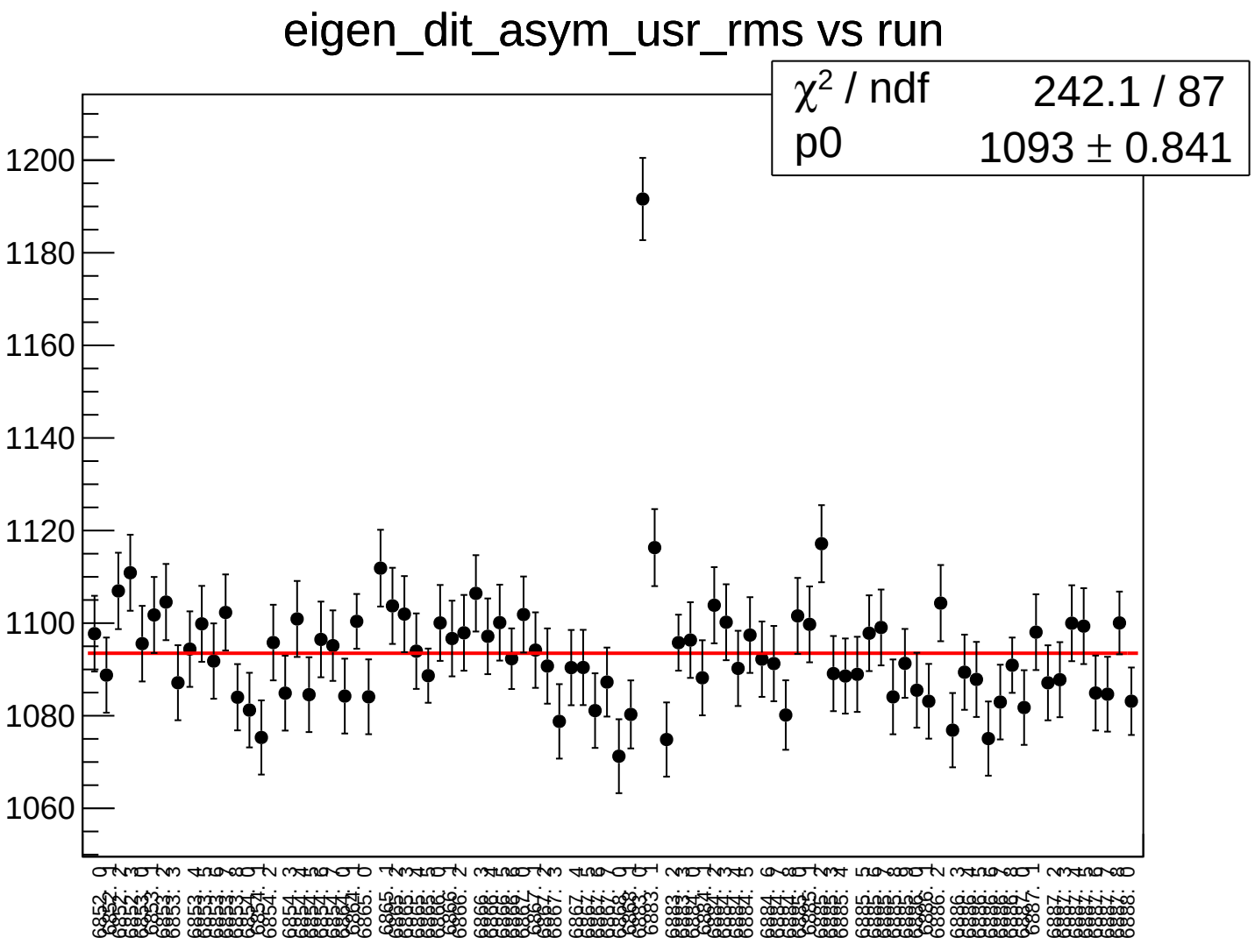

dit_asym_usr_rms vs run
χ² / ndf 242.1 / 87
p0 1093 ± 0.841
1200
1180
1160
1140
1120
1100
1080
1060

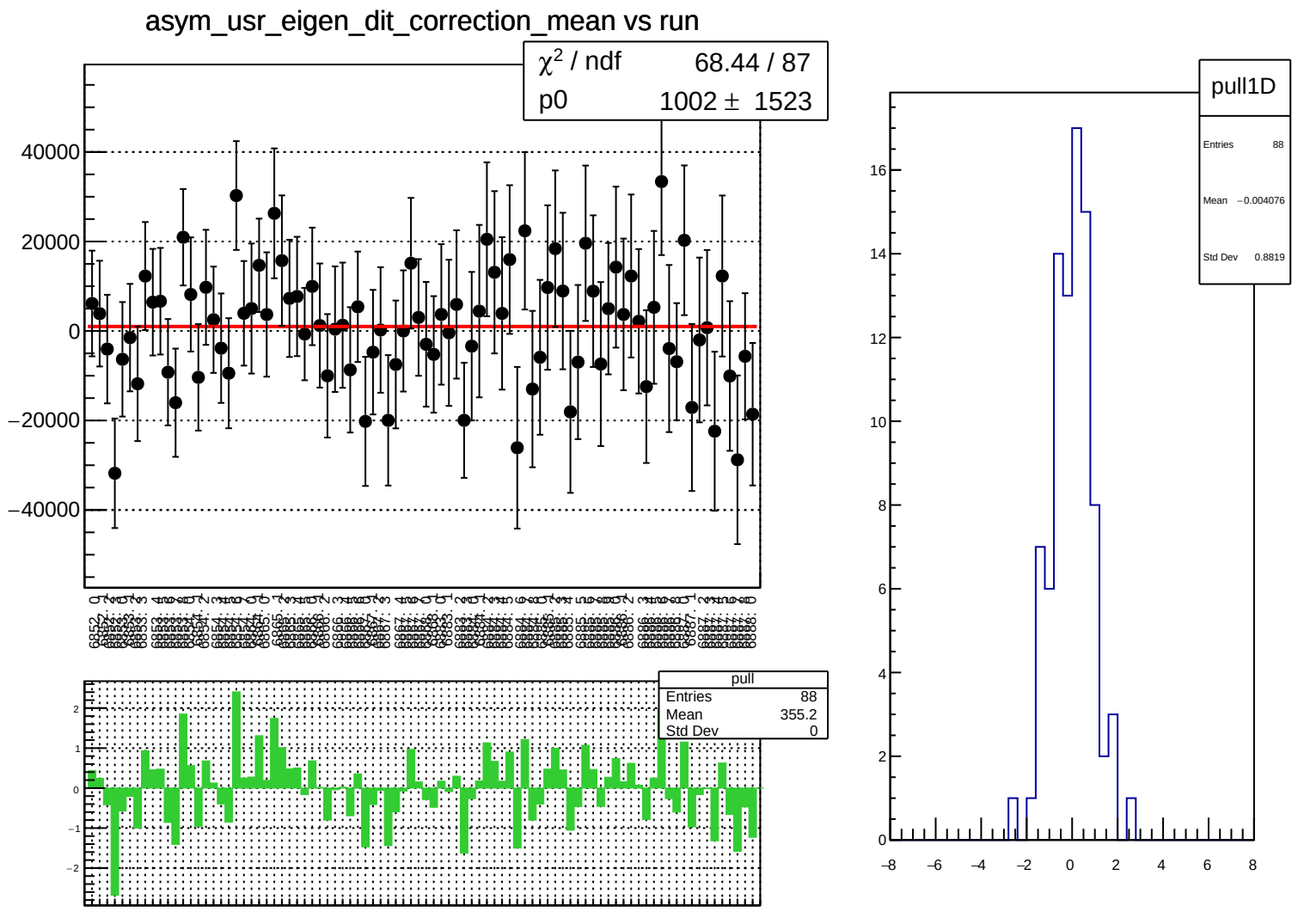

asym_usr_dit_correction_mean vs run
χ² / ndf 68.44 / 87
p0 1002 ± 1523
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 355.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.004076
Std Dev 0.8819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

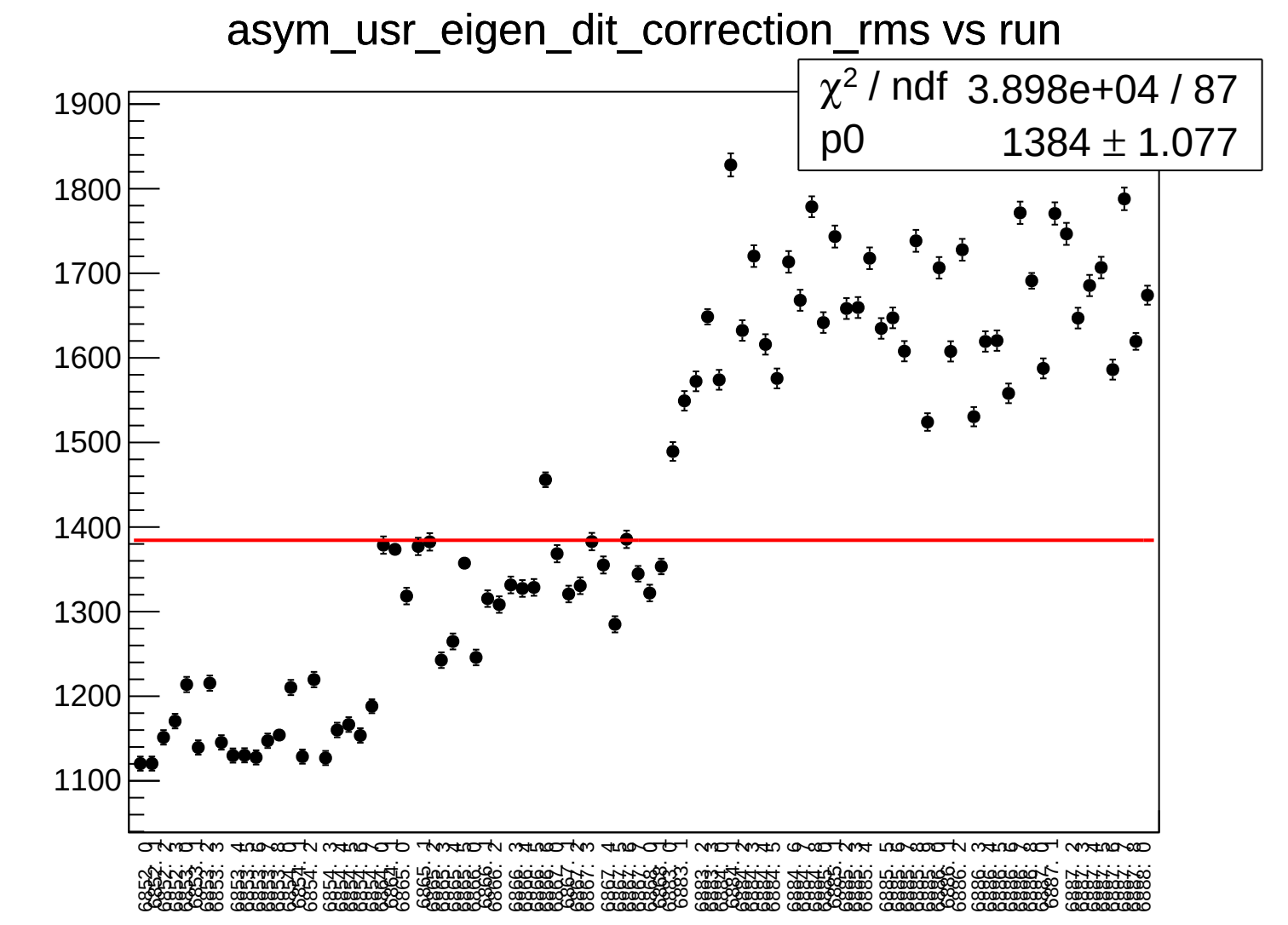

asym_usr_dit_correction_rms vs run
χ² / ndf 3.898e+04 / 87
p0 1384 ± 1.077
1900
1800
1700
1600
1500
1400
1300
1200
1100

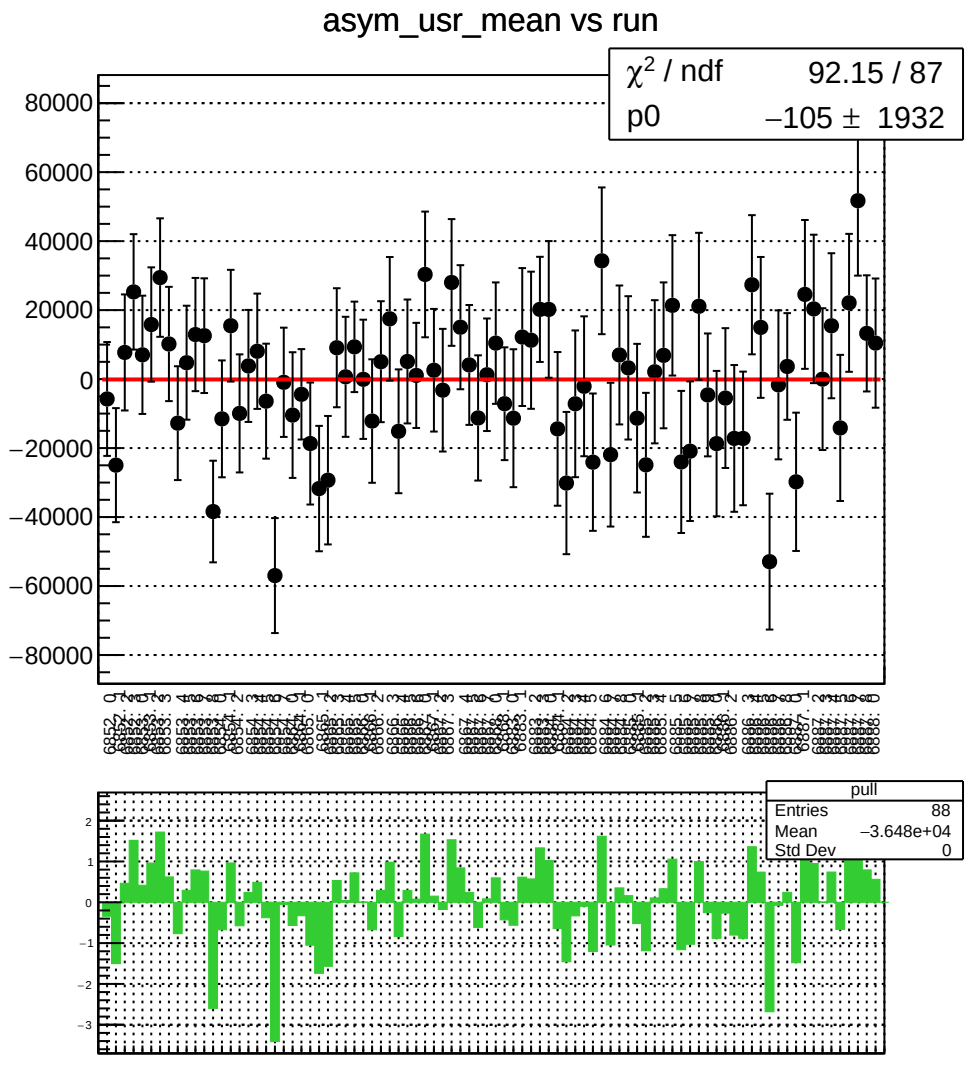

eigen_dit_asym_usr_mean vs run
χ² / ndf 78.34 / 87
p0 898 ± 1189
pull
Entries 88
Mean −153.5
Std Dev 0

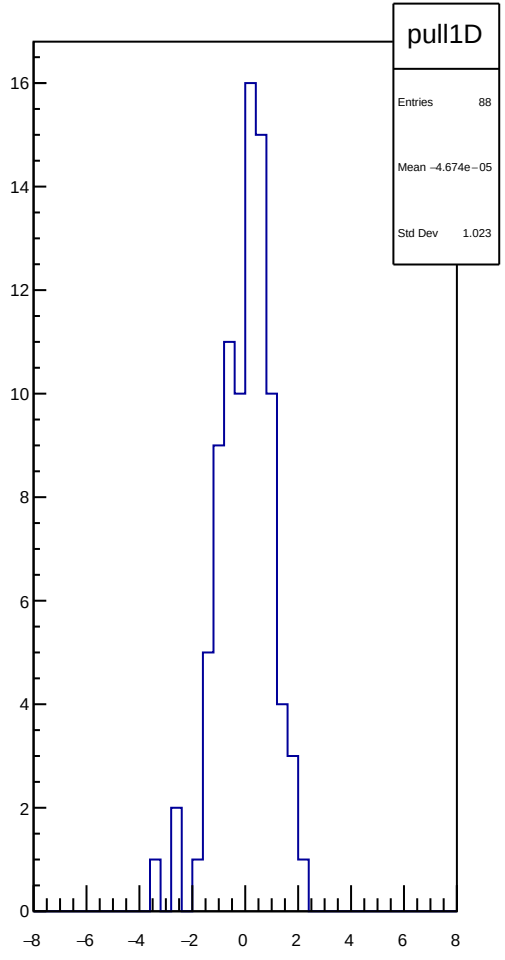

pull1D
Entries 88
Mean −0.004857
Std Dev 0.9435

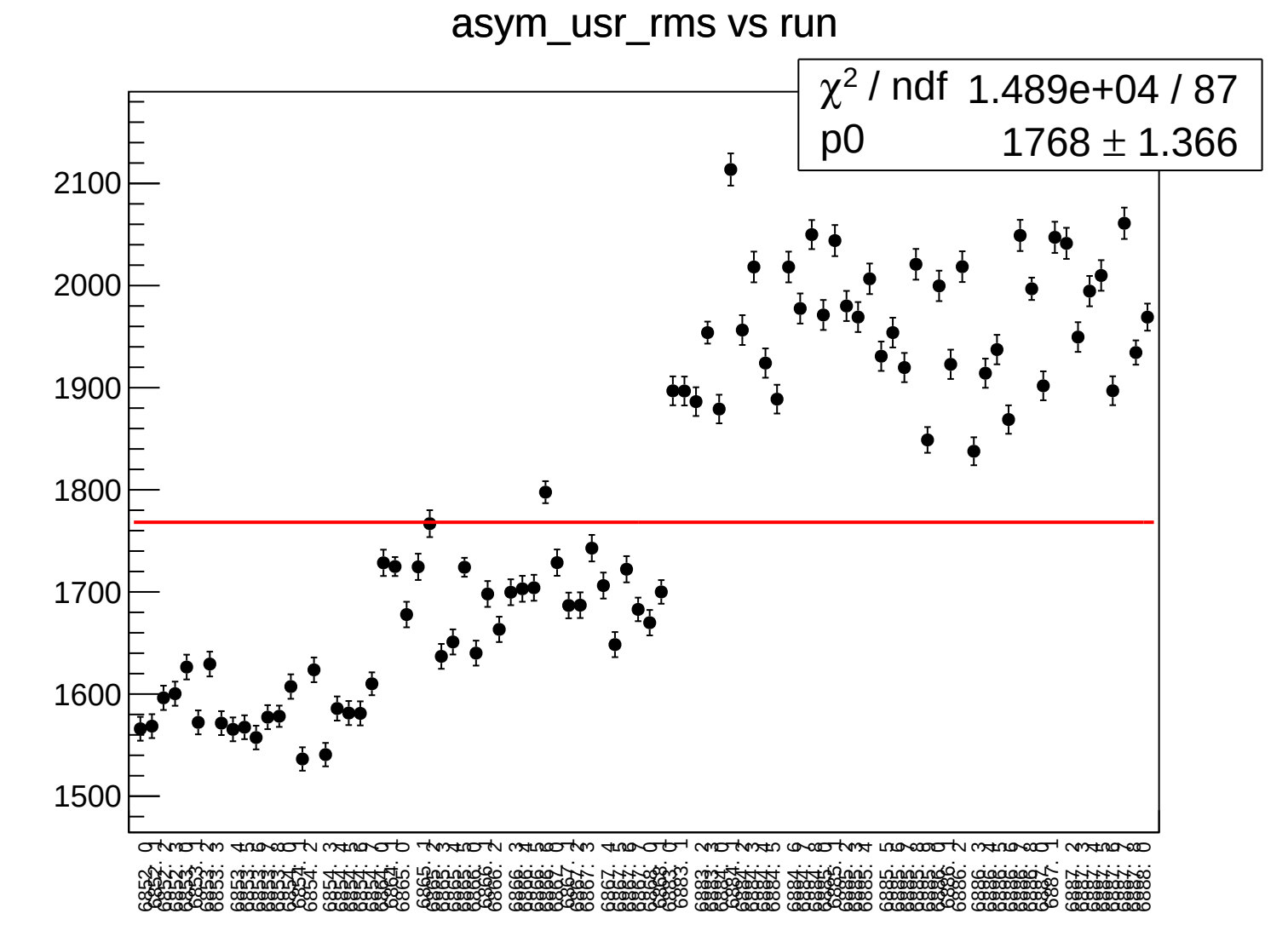

eigen_dit_asym_usr_rms vs run
χ² / ndf 242.1 / 87
p0 1093 ± 0.841
1200
1180
1160
1140
1120
1100
1080
1060

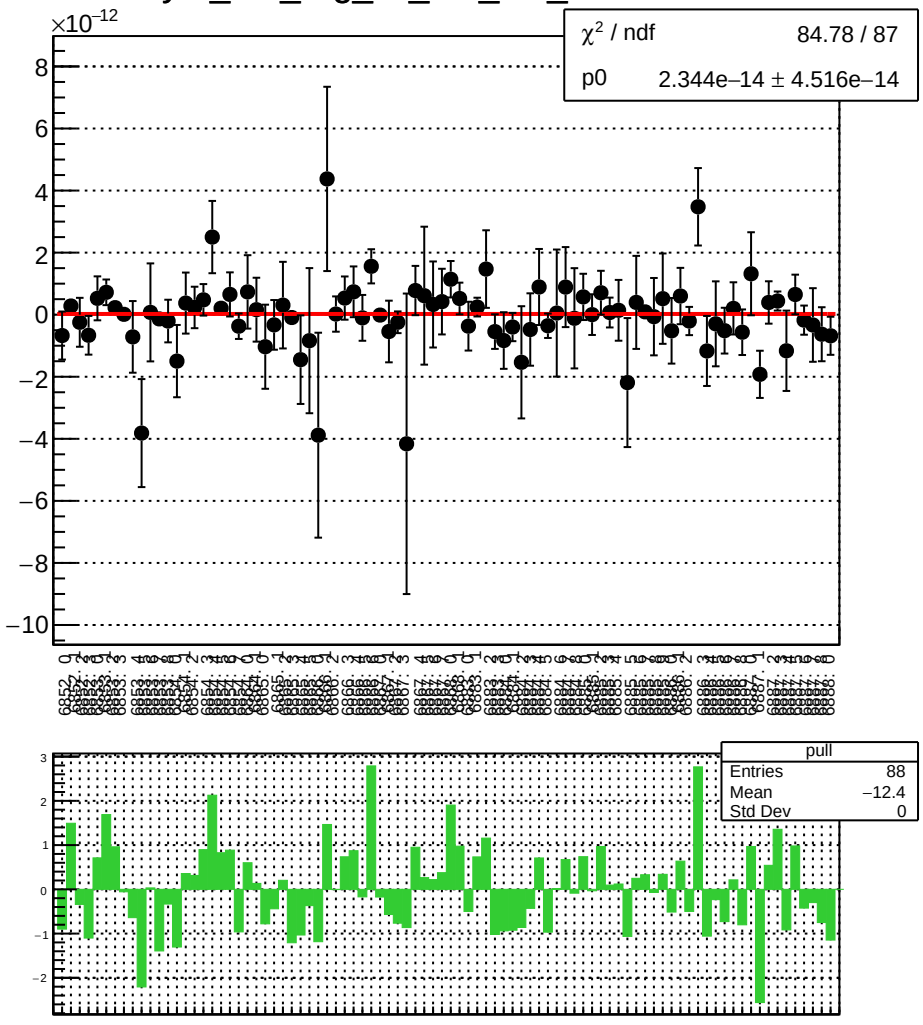

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 68.44 / 87
p0 1002 ± 1523
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 355.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.004076
Std Dev 0.8819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

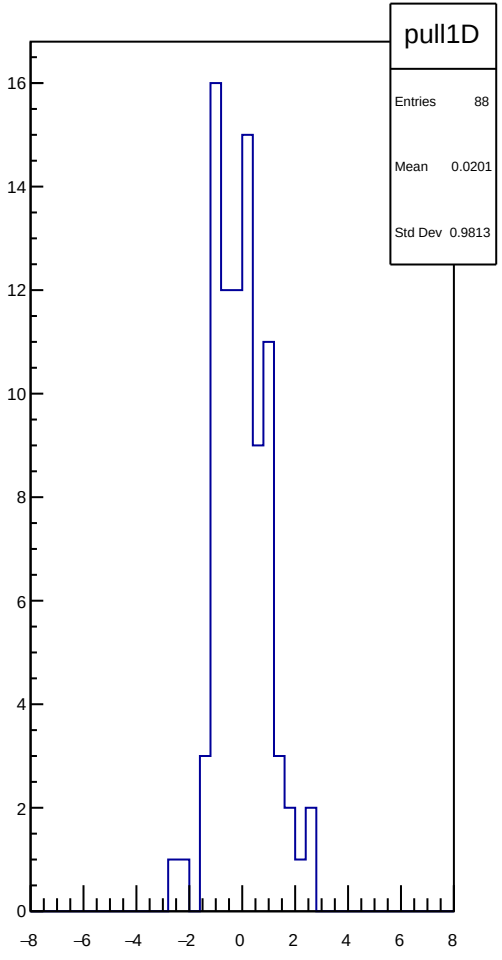

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 3.898e+04 / 87
p0 1384 ± 1.077
1900
1800
1700
1600
1500
1400
1300
1200
1100

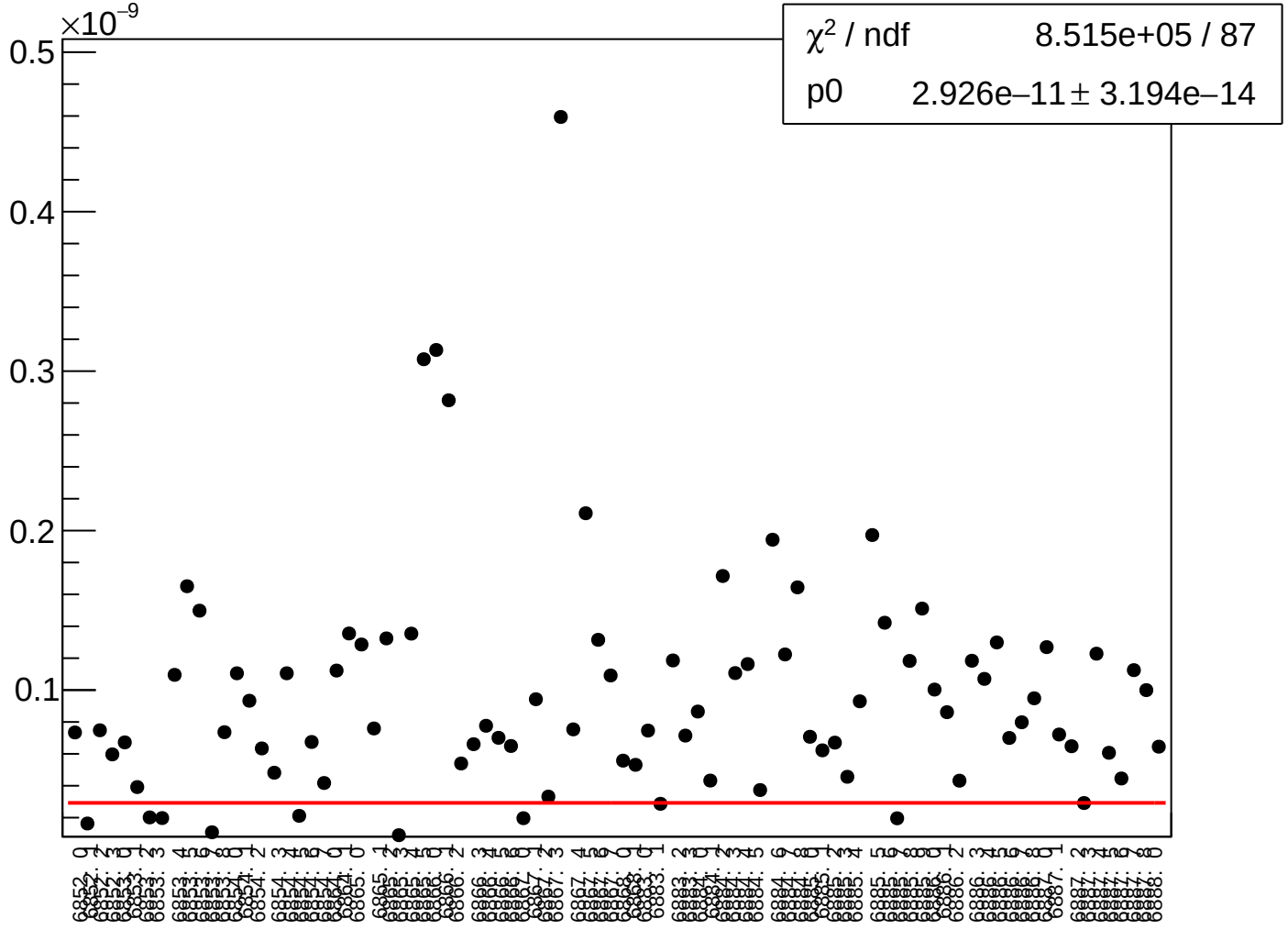

asym_usr_mean vs run
χ² / ndf 92.15 / 87
p0 −105 ± 1932
pull
Entries 88
Mean −3.648e+04
Std Dev 0

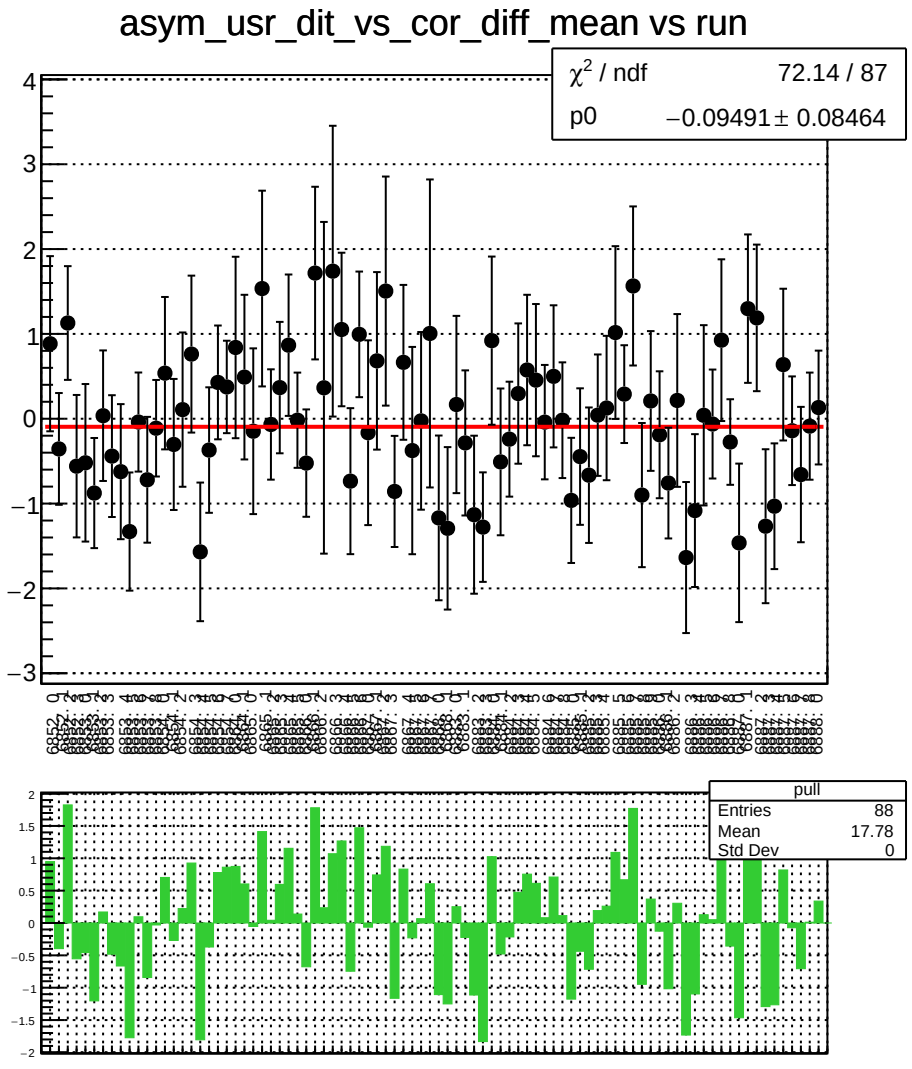

pull1D
Entries 88
Mean −4.674e−05
Std Dev 1.023

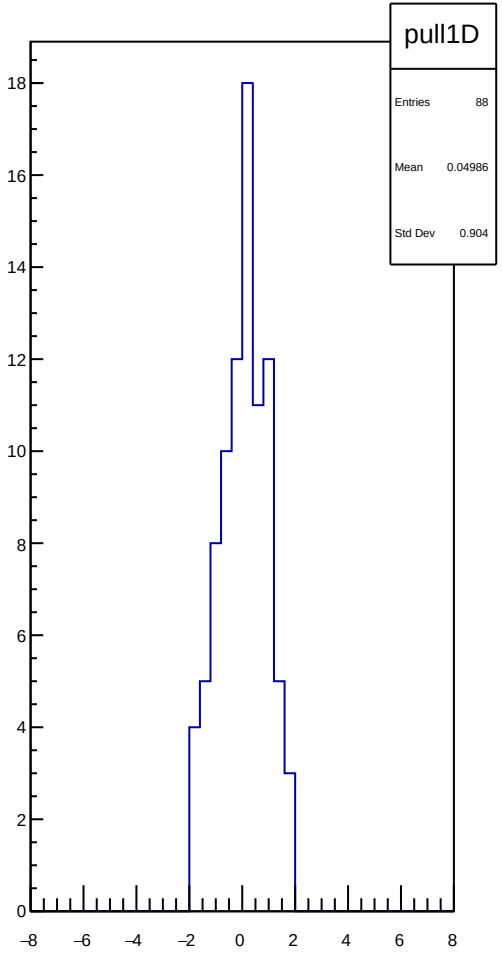

asym_usr_rms vs run
χ² / ndf 1.489e+04 / 87
p0 1768 ± 1.366
2100
2000
1900
1800
1700
1600
1500

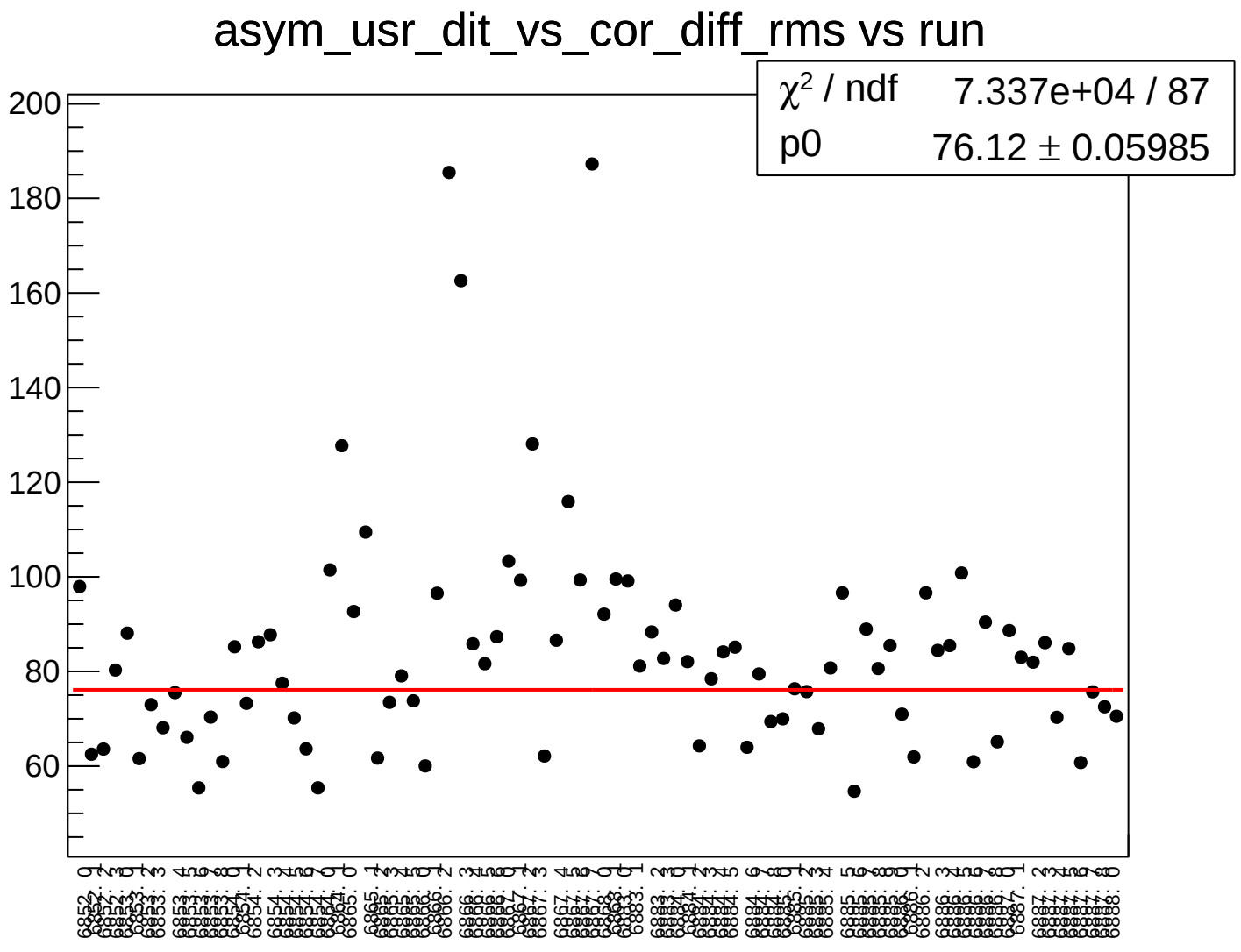

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.78 / 87
p0 2.344e−14 ± 4.516e−14
pull
Entries 88
Mean −12.4
Std Dev 0

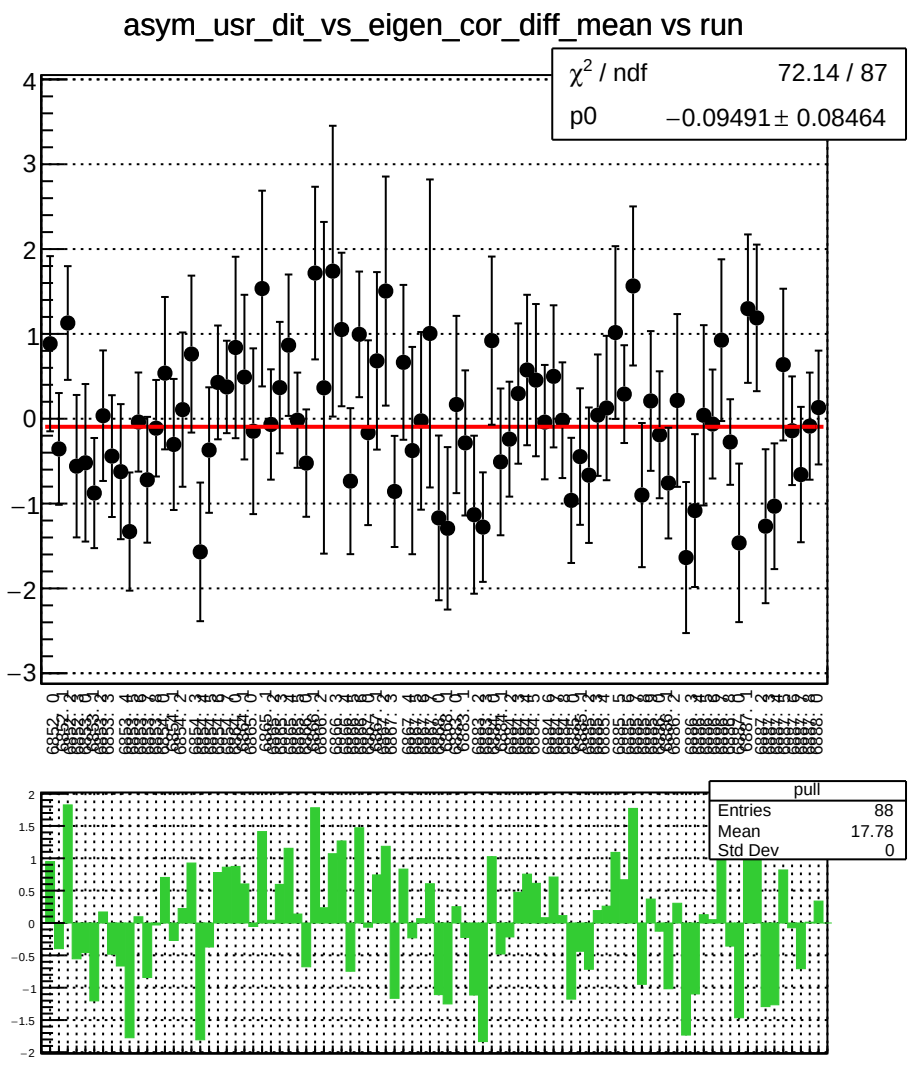

pull1D
Entries 88
Mean 0.0201
Std Dev 0.9813

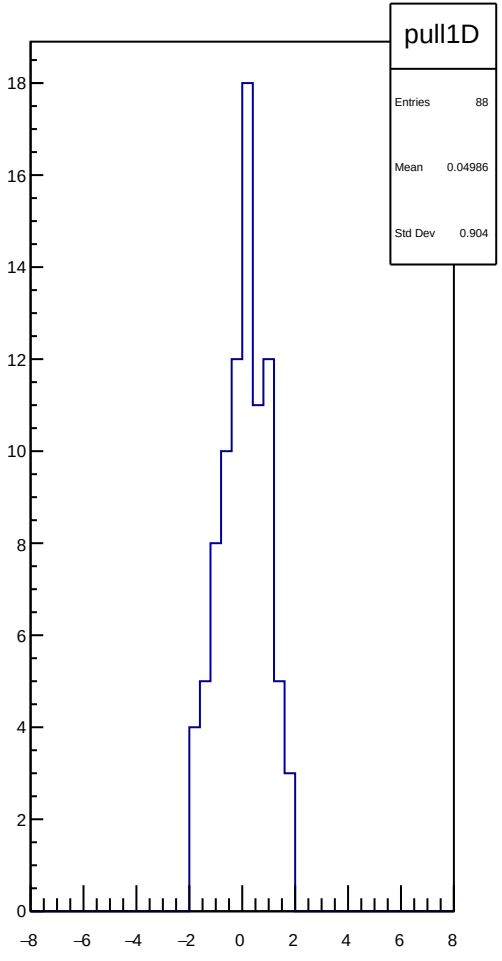

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
χ² / ndf 8.515e+05 / 87
p0 2.926e−11 ± 3.194e−14

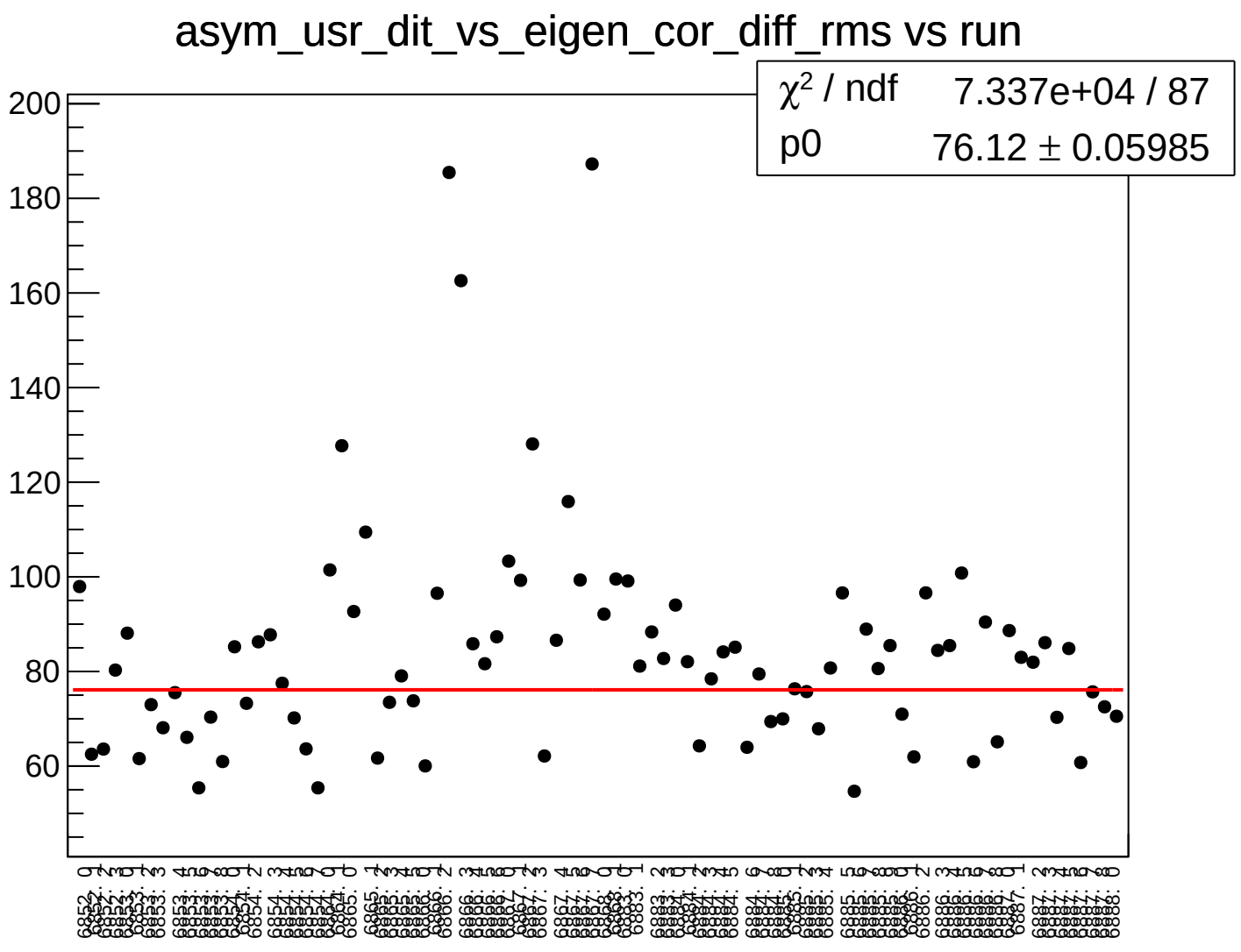

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 72.14 / 87
p0 −0.09491 ± 0.08464
pull
Entries 88
Mean 17.78
Std Dev 0

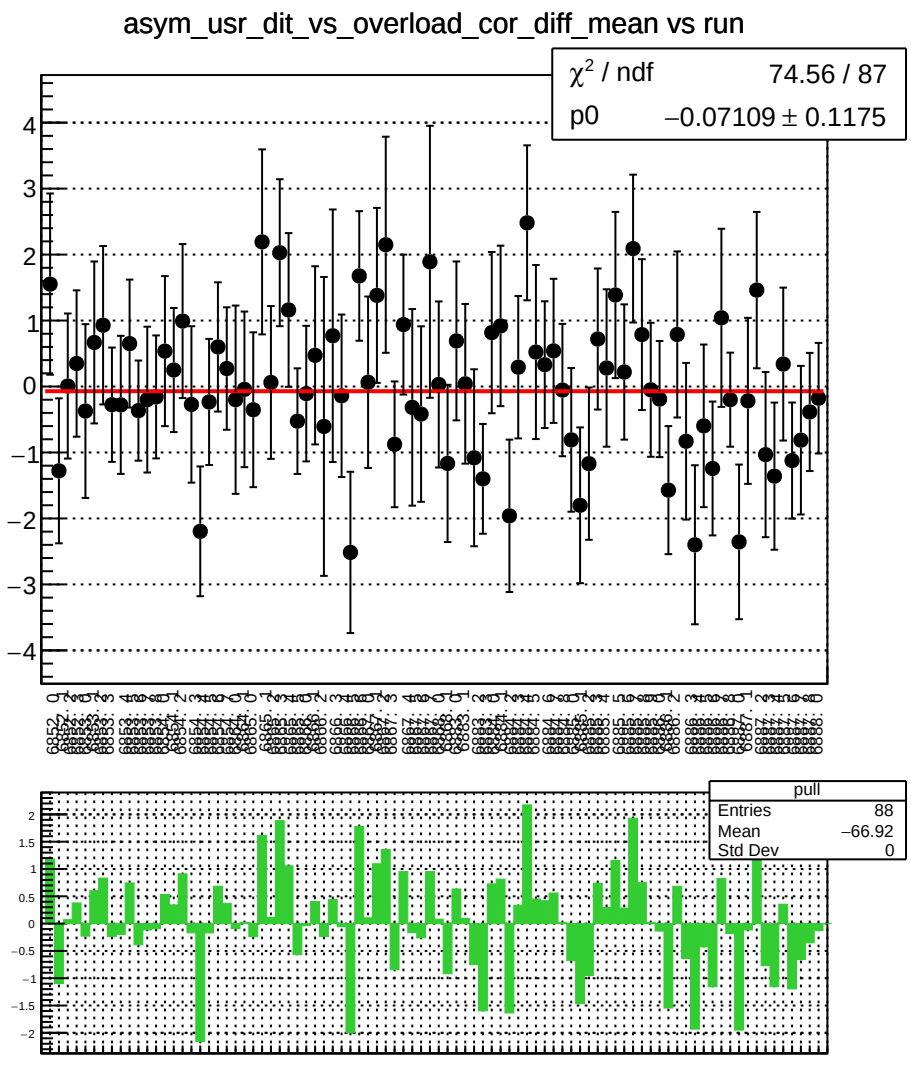

pull1D
Entries 88
Mean 0.04986
Std Dev 0.904

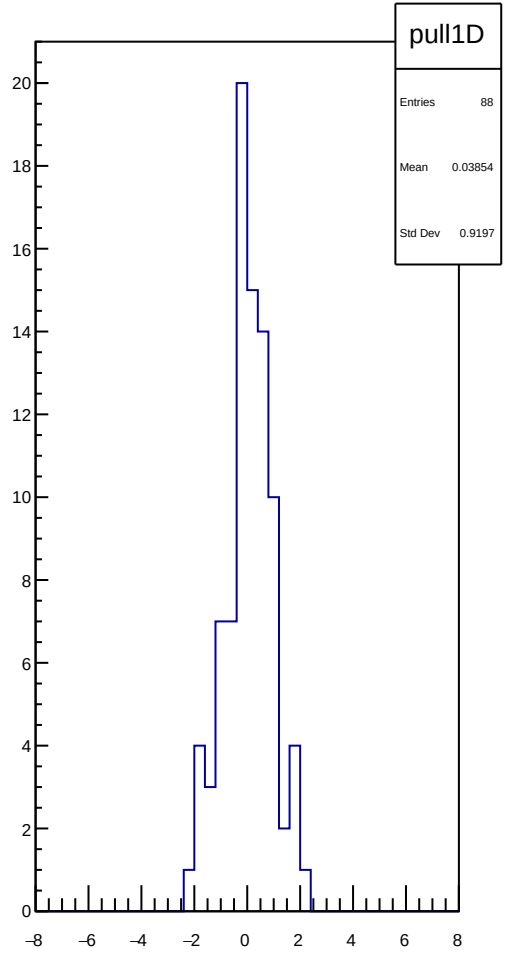

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 7.337e+04 / 87
p0 76.12 ± 0.05985
200
180
160
140
120
100
80
60

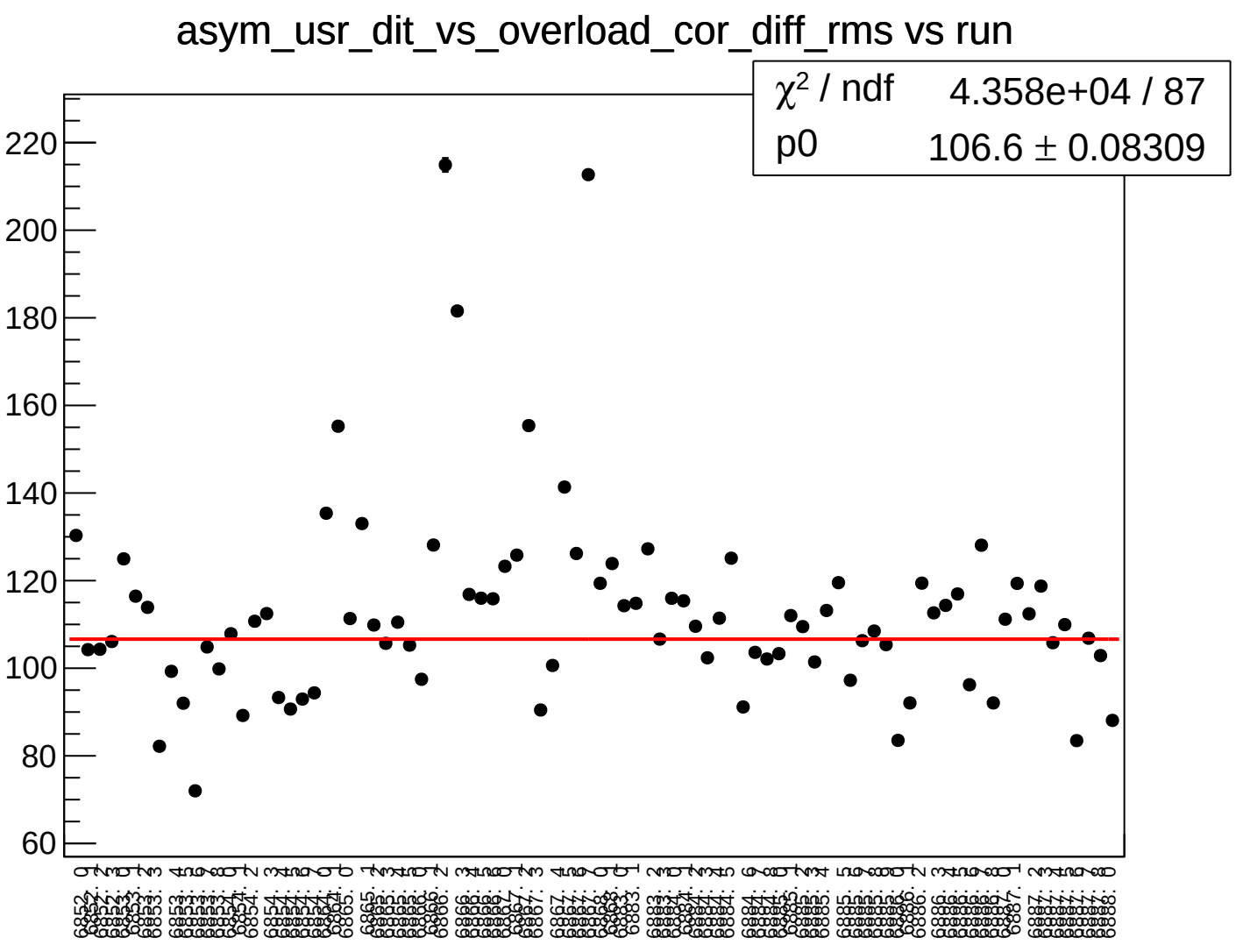

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.14 / 87
p0 −0.09491 ± 0.08464
pull
Entries 88
Mean 17.78
Std Dev 0

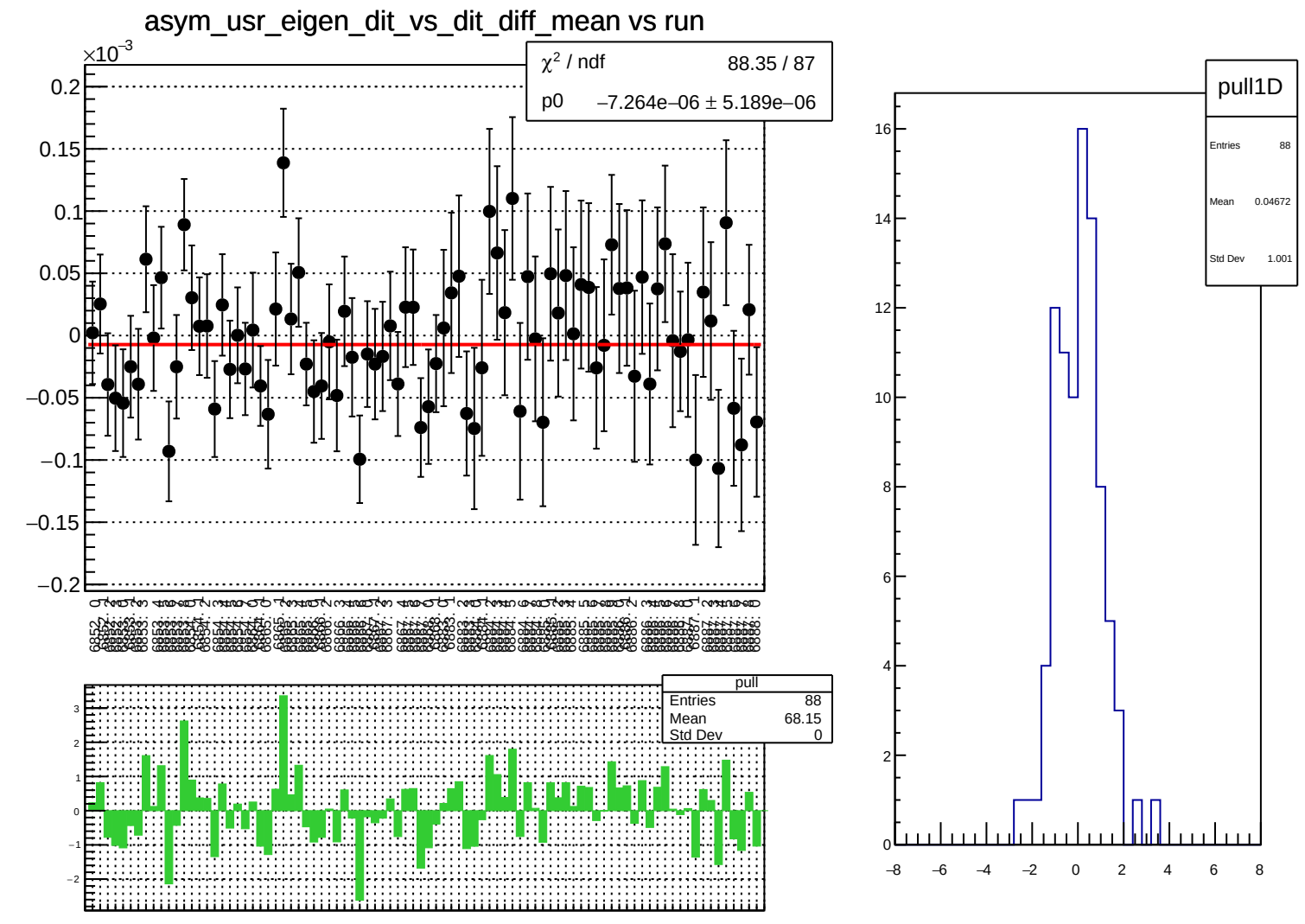

pull1D
Entries 88
Mean 0.04986
Std Dev 0.904

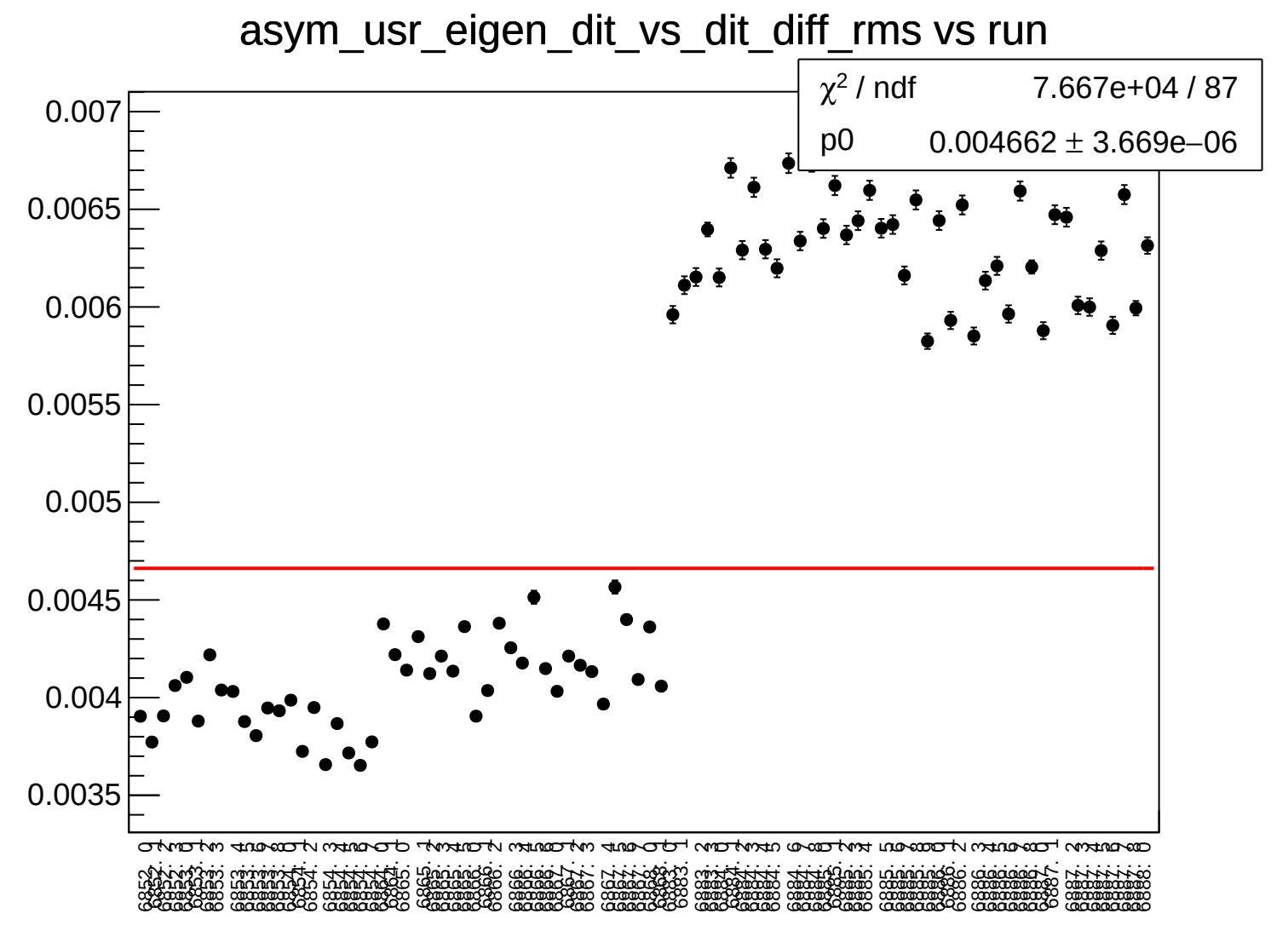

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.337e+04 / 87
p0 76.12 ± 0.05985
200
180
160
140
120
100
80
60

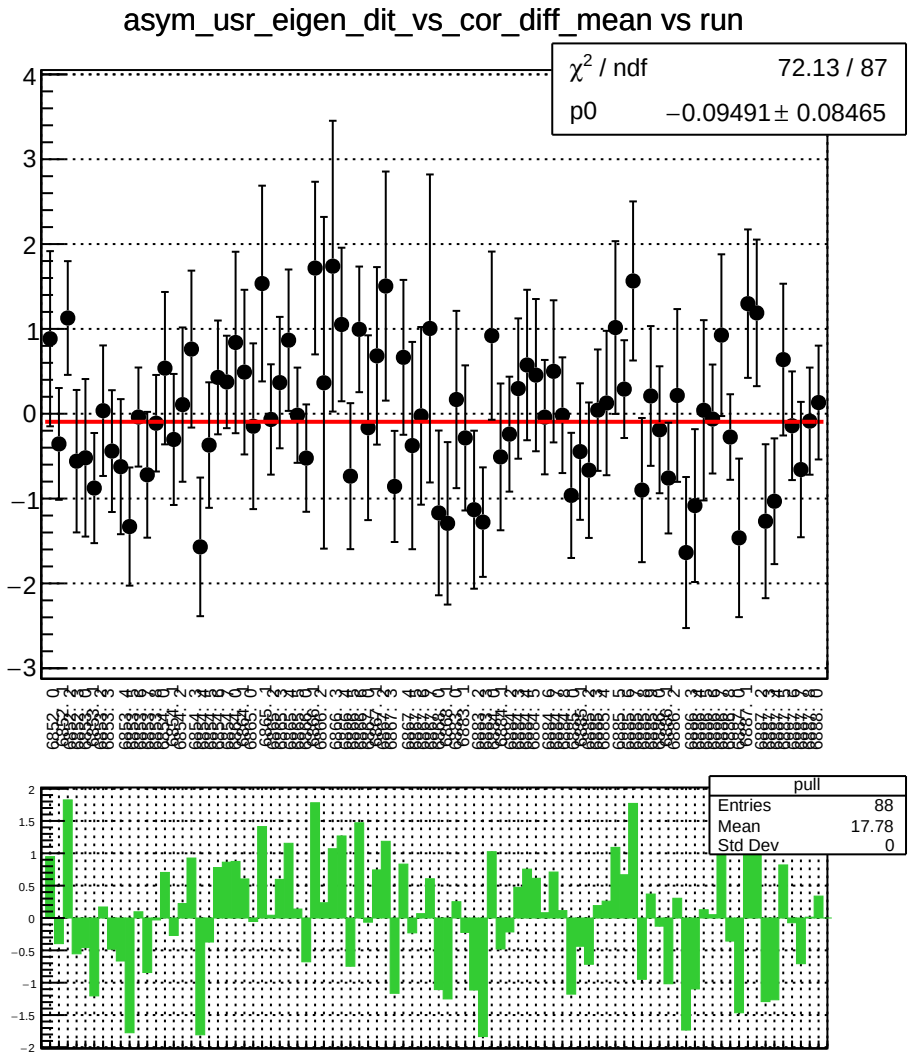

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 74.56 / 87
p0 −0.07109 ± 0.1175
pull
Entries 88
Mean −66.92
Std Dev 0

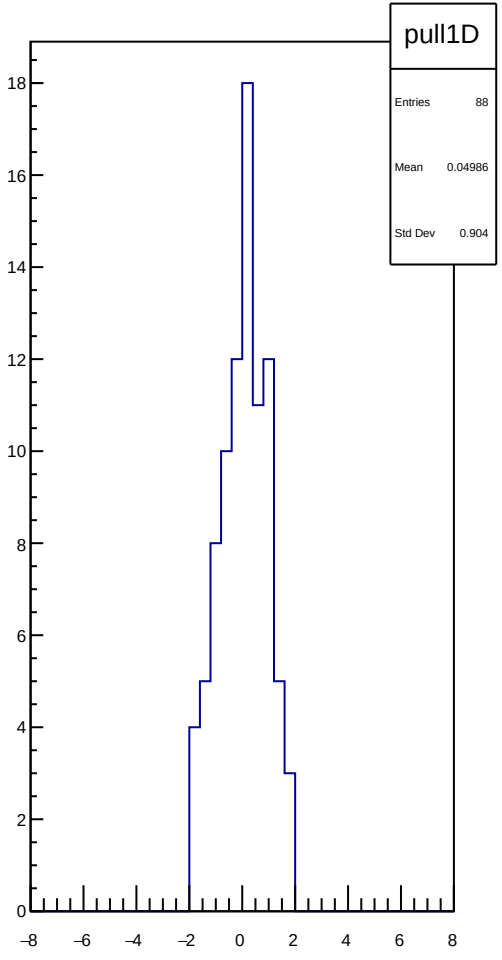

pull1D
Entries 88
Mean 0.03854
Std Dev 0.9197

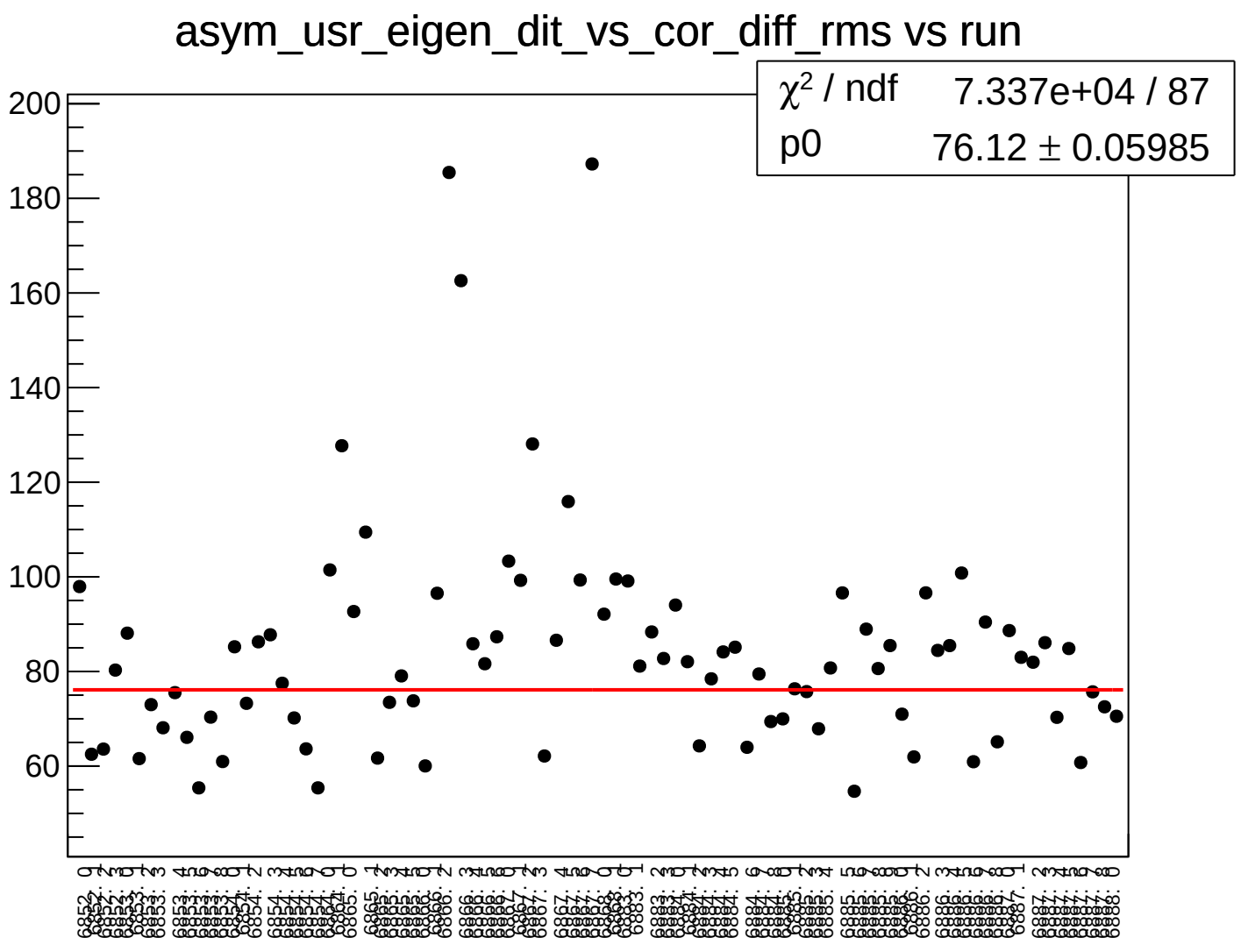

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.358e+04 / 87
p0 106.6 ± 0.08309
220
200
180
160
140
120
100
80
60

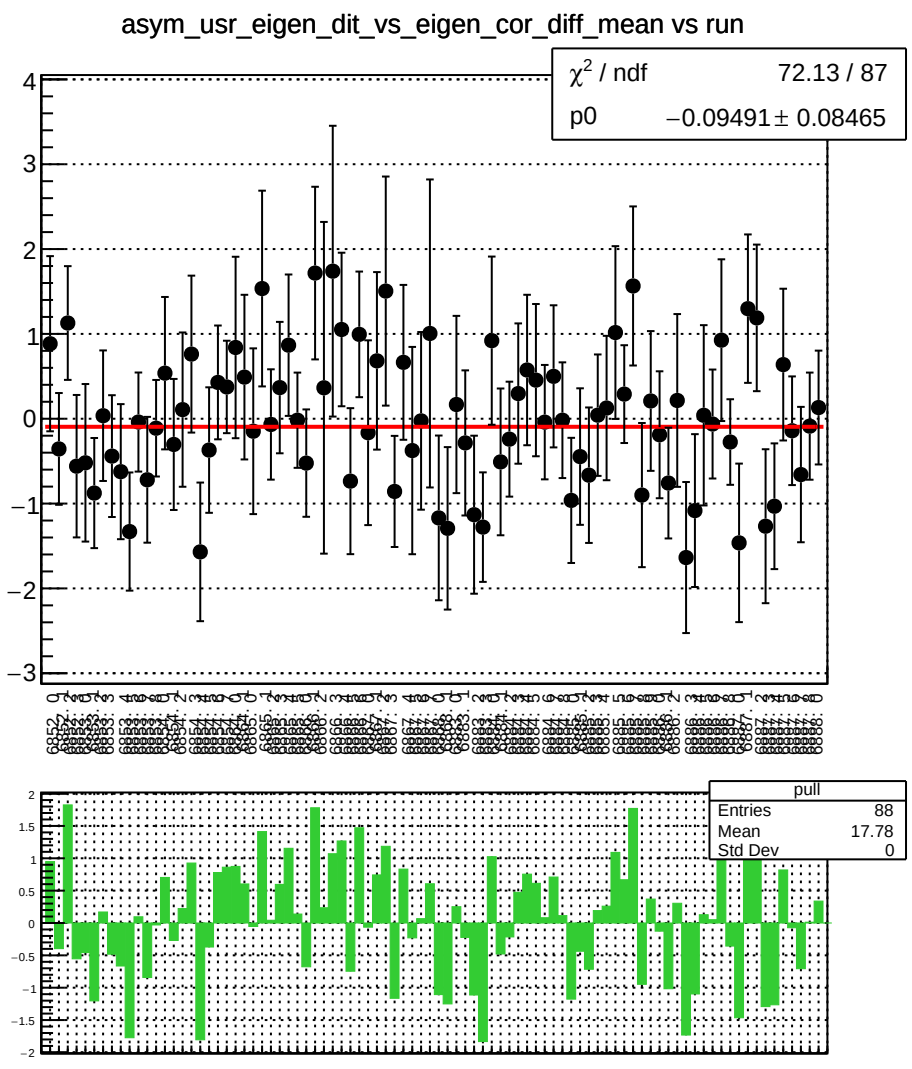

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.35 / 87
p0 −7.264e−06 ± 5.189e−06
pull
Entries 88
Mean 68.15
Std Dev 0
pull1D
Entries 88
Mean 0.04672
Std Dev 1.001

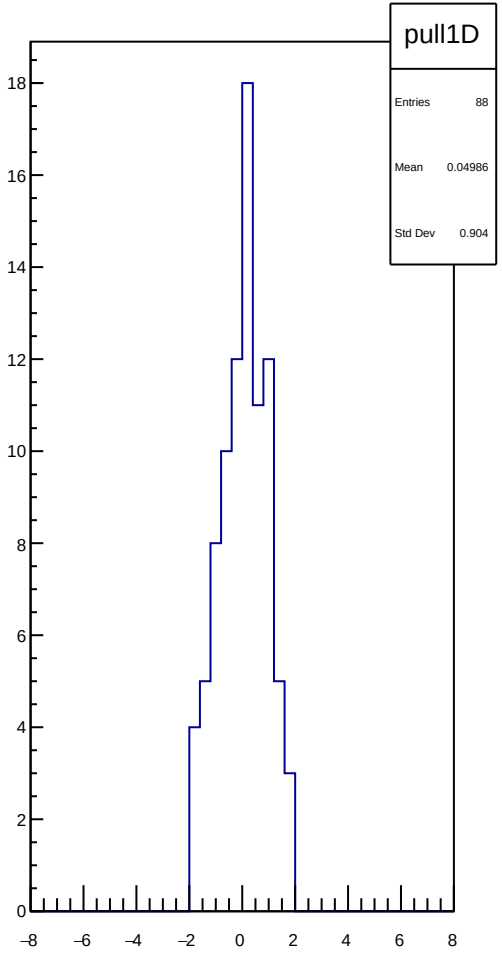

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.667e+04 / 87
p0 0.004662 ± 3.669e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

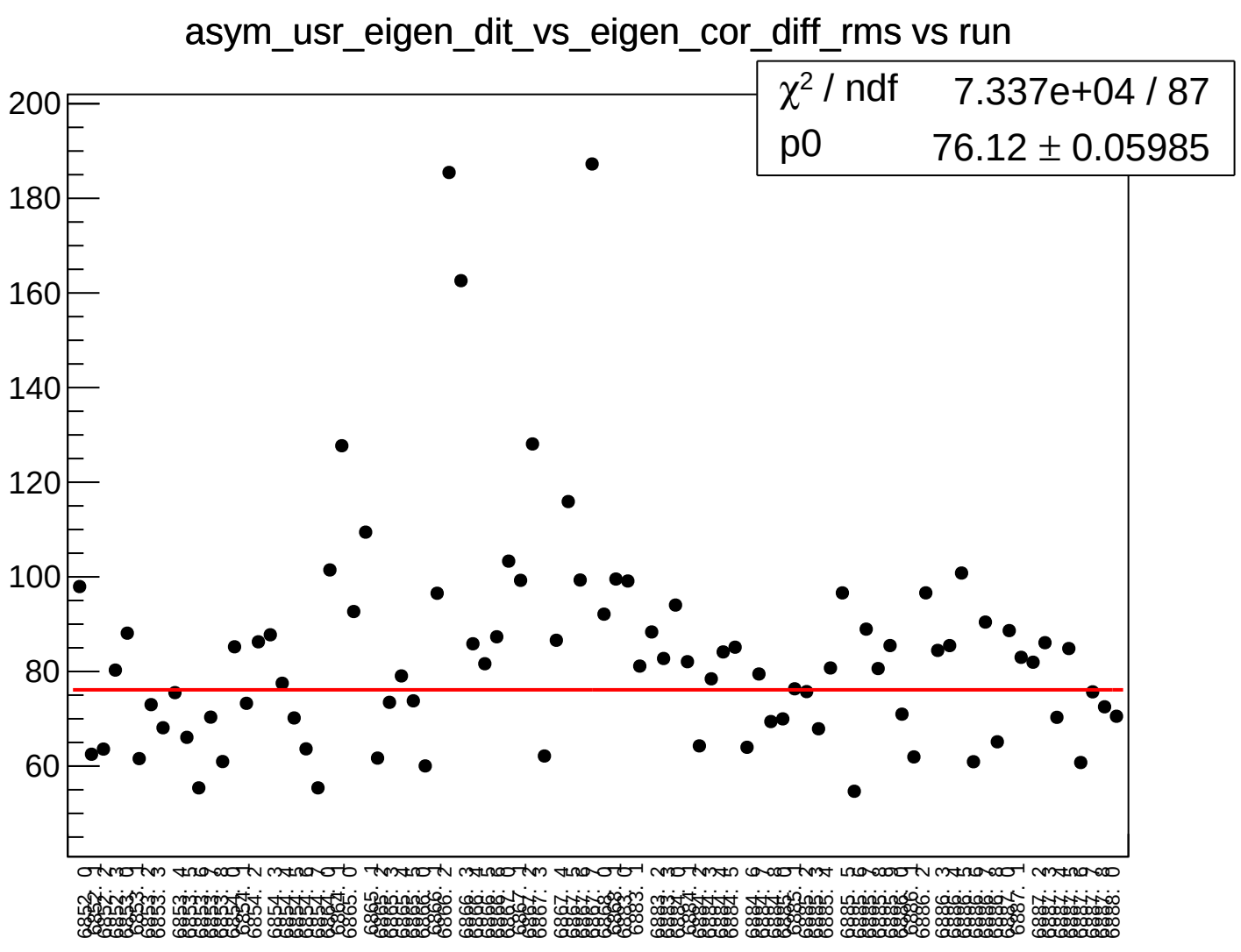

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.13 / 87
p0 −0.09491 ± 0.08465
pull
Entries 88
Mean 17.78
Std Dev 0

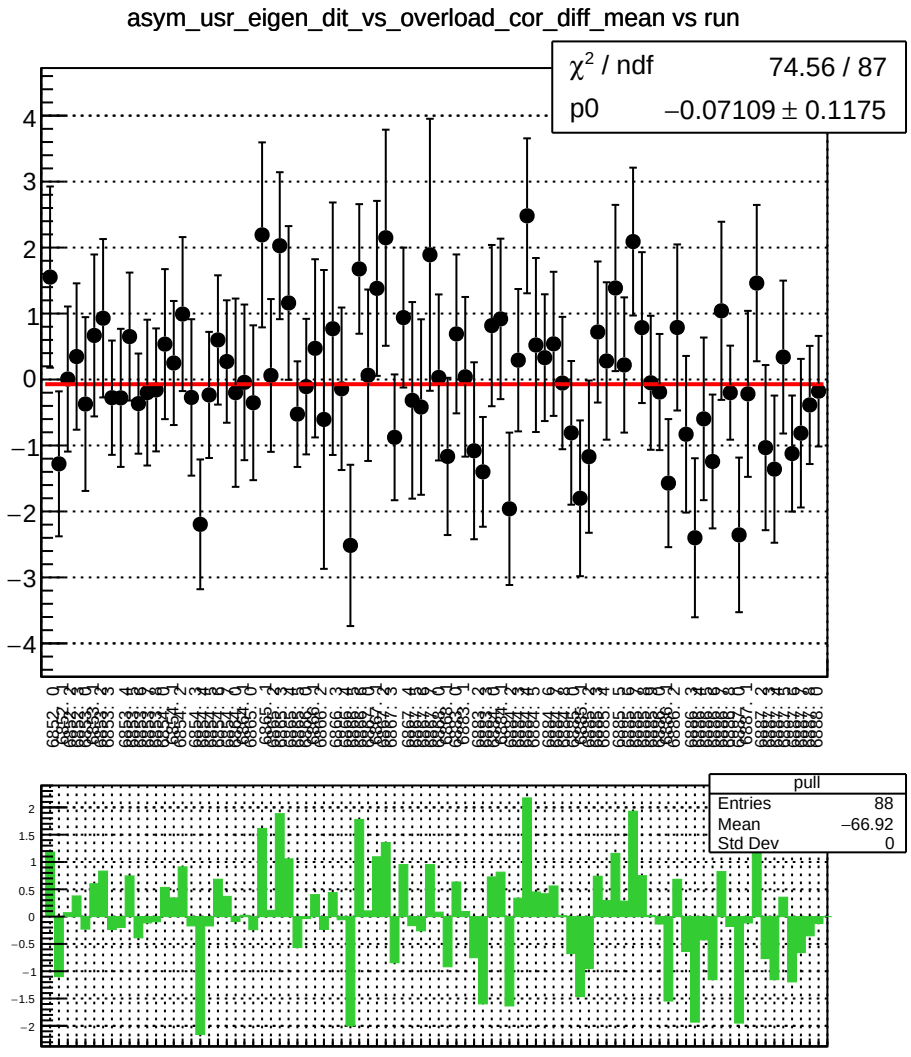

pull1D
Entries 88
Mean 0.04986
Std Dev 0.904

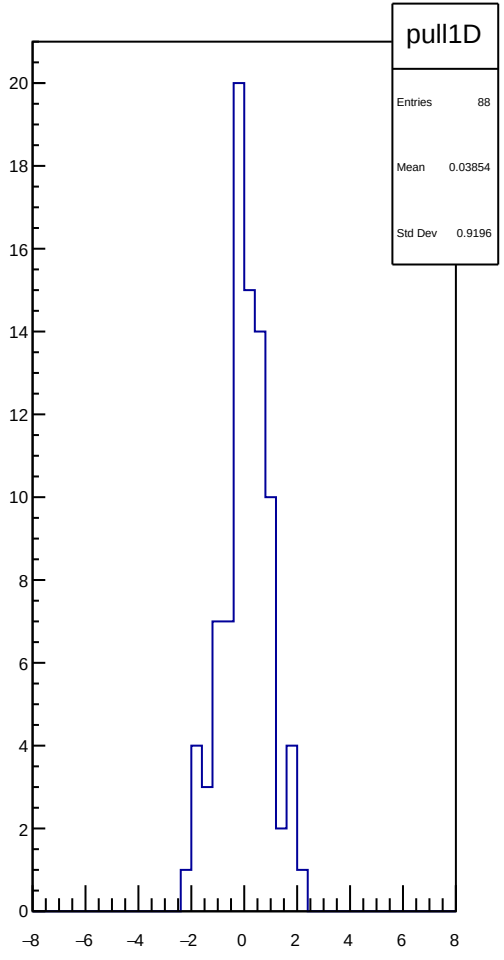

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.337e+04 / 87
p0 76.12 ± 0.05985
200
180
160
140
120
100
80
60

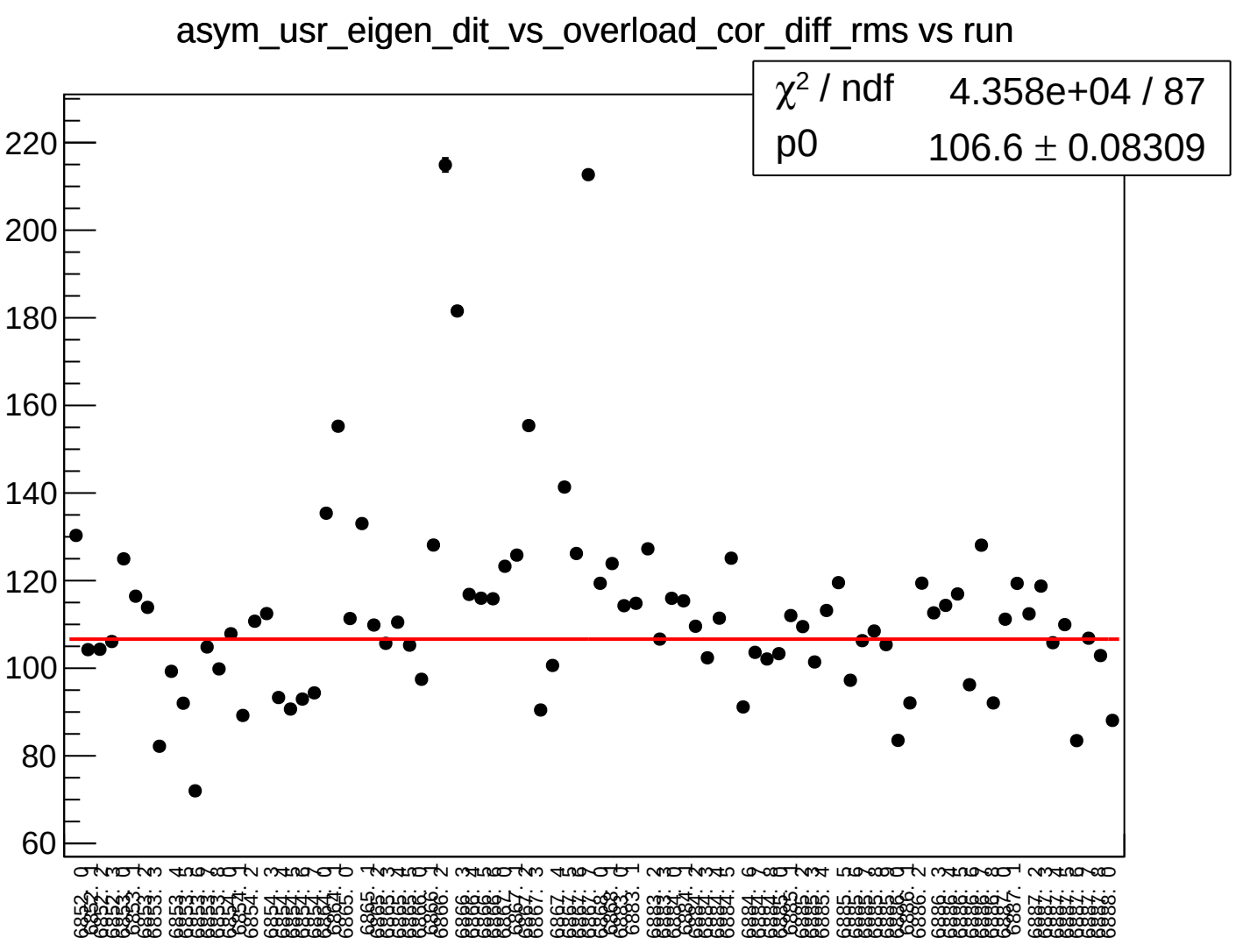

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.13 / 87
p0 −0.09491 ± 0.08465
pull
Entries 88
Mean 17.78
Std Dev 0

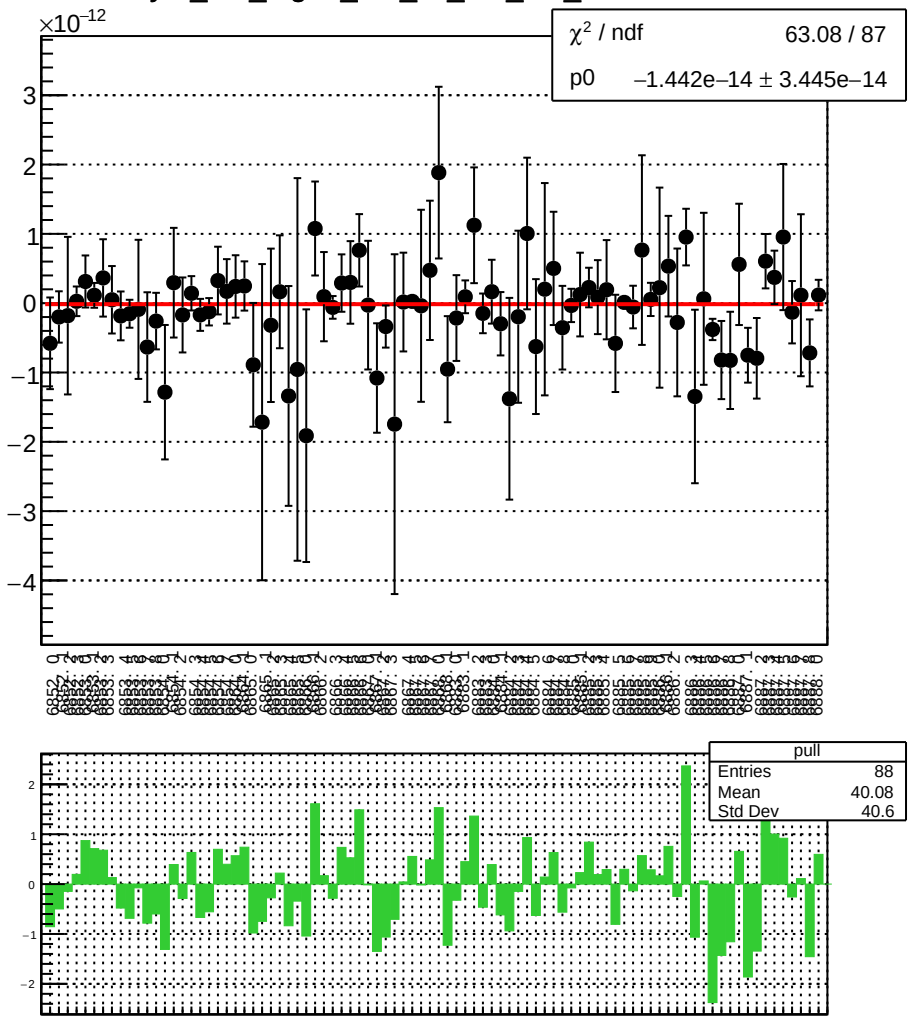

pull1D
Entries 88
Mean 0.04986
Std Dev 0.904

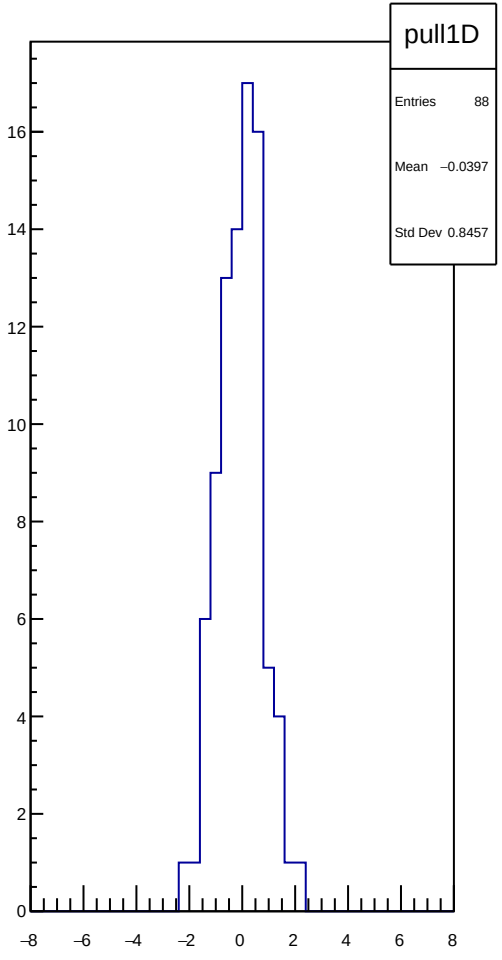

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.337e+04 / 87
p0 76.12 ± 0.05985
200
180
160
140
120
100
80
60

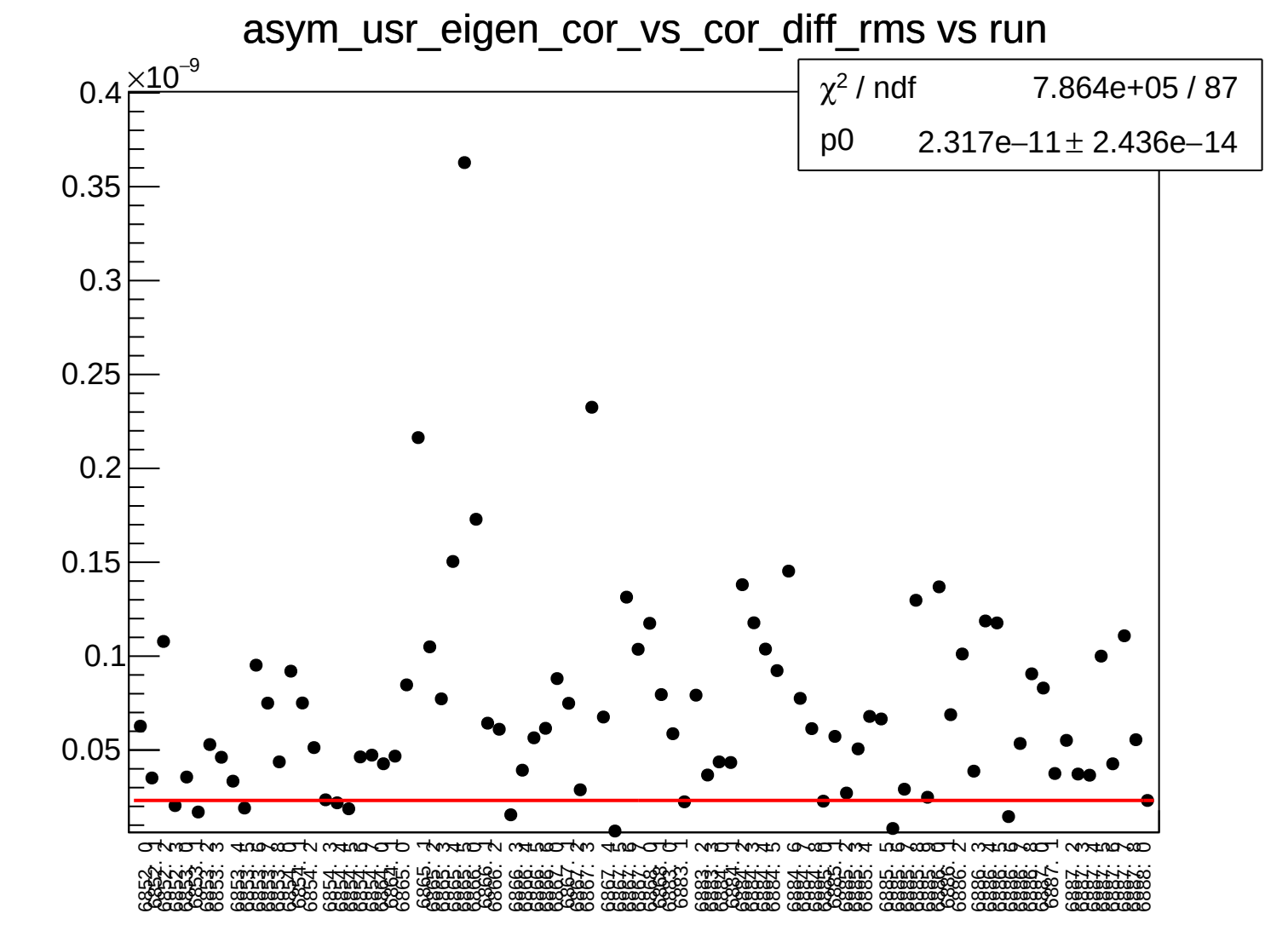

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 74.56 / 87
p0 −0.07109 ± 0.1175
pull
Entries 88
Mean −66.92
Std Dev 0

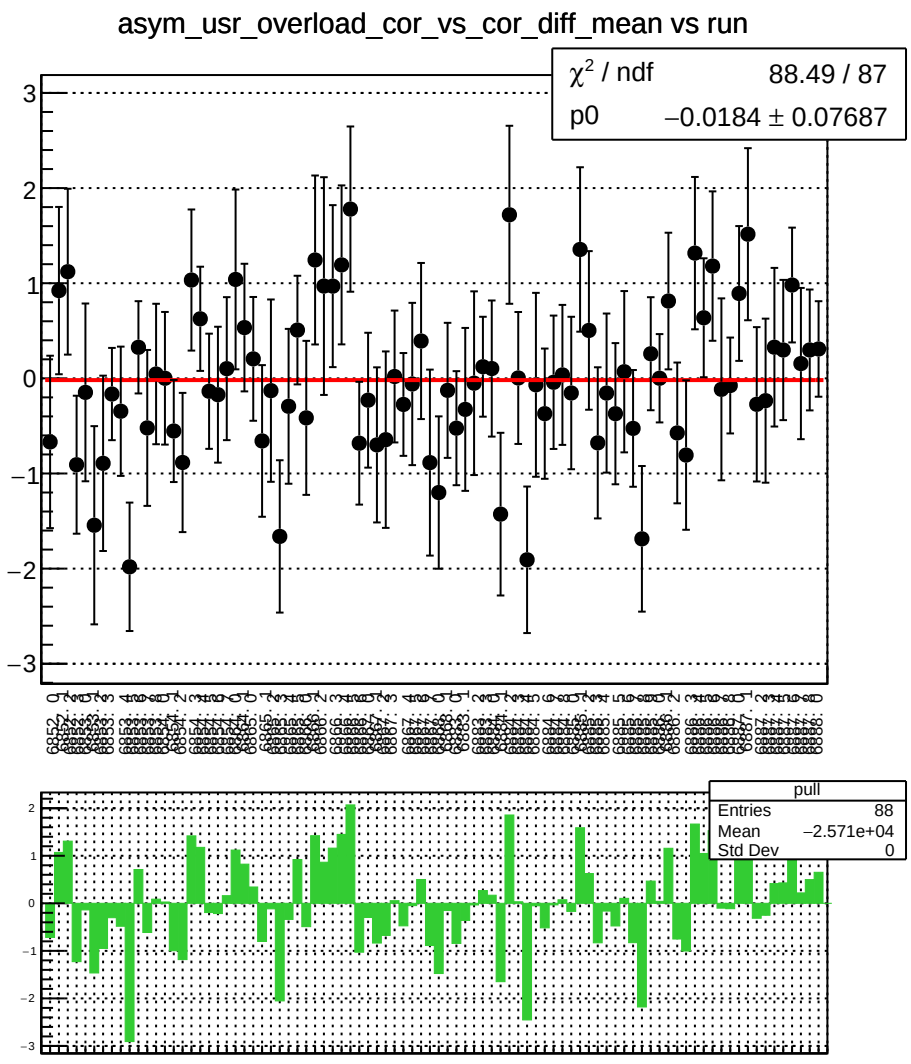

pull1D
Entries 88
Mean 0.03854
Std Dev 0.9196

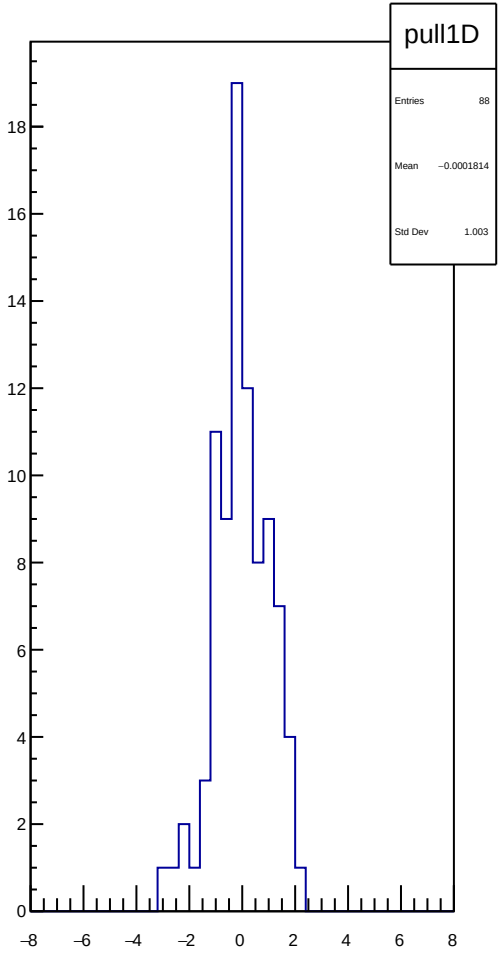

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.358e+04 / 87
p0 106.6 ± 0.08309
220
200
180
160
140
120
100
80
60

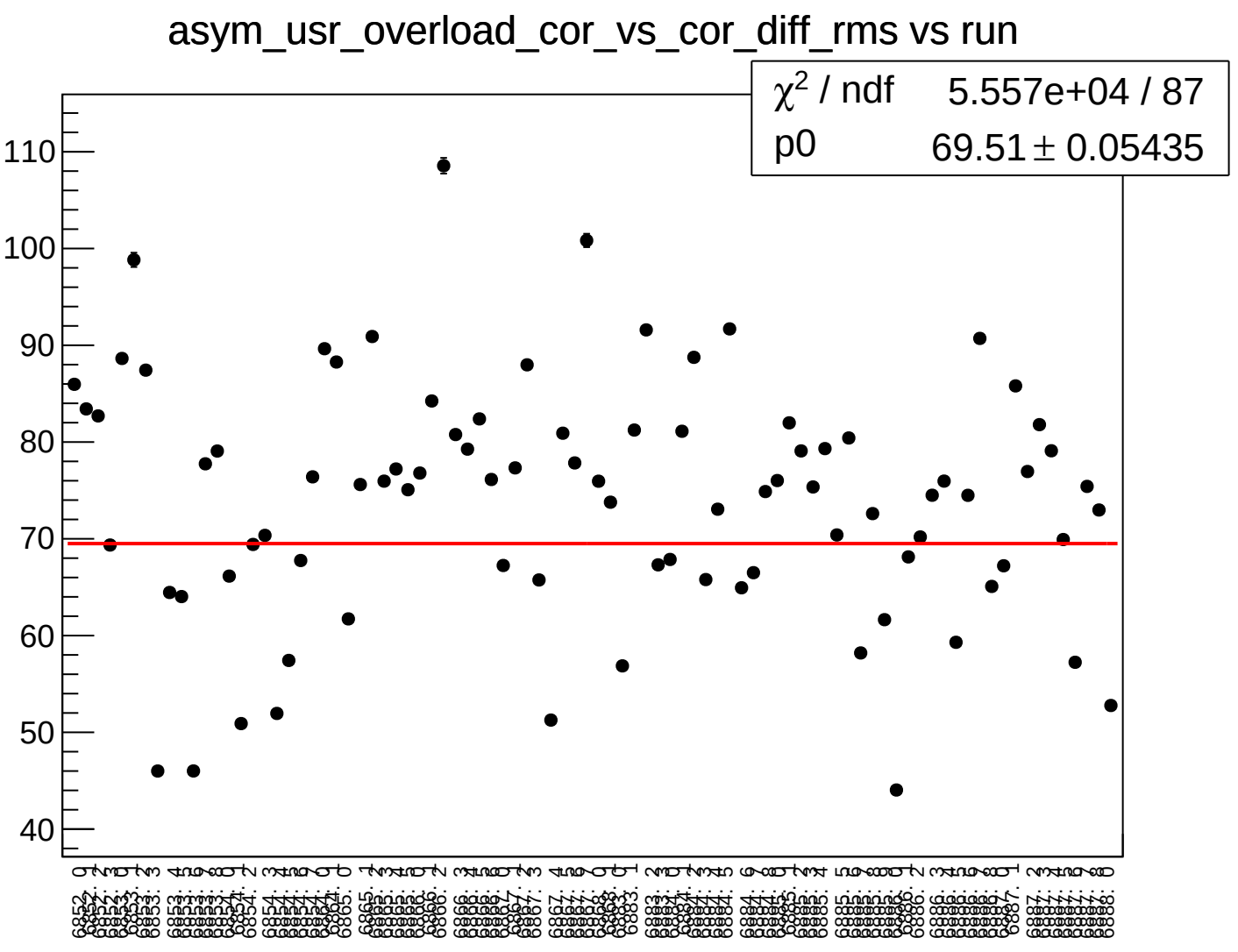

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.08 / 87
p0 −1.442e−14 ± 3.445e−14
pull
Entries 88
Mean 40.08
Std Dev 40.6

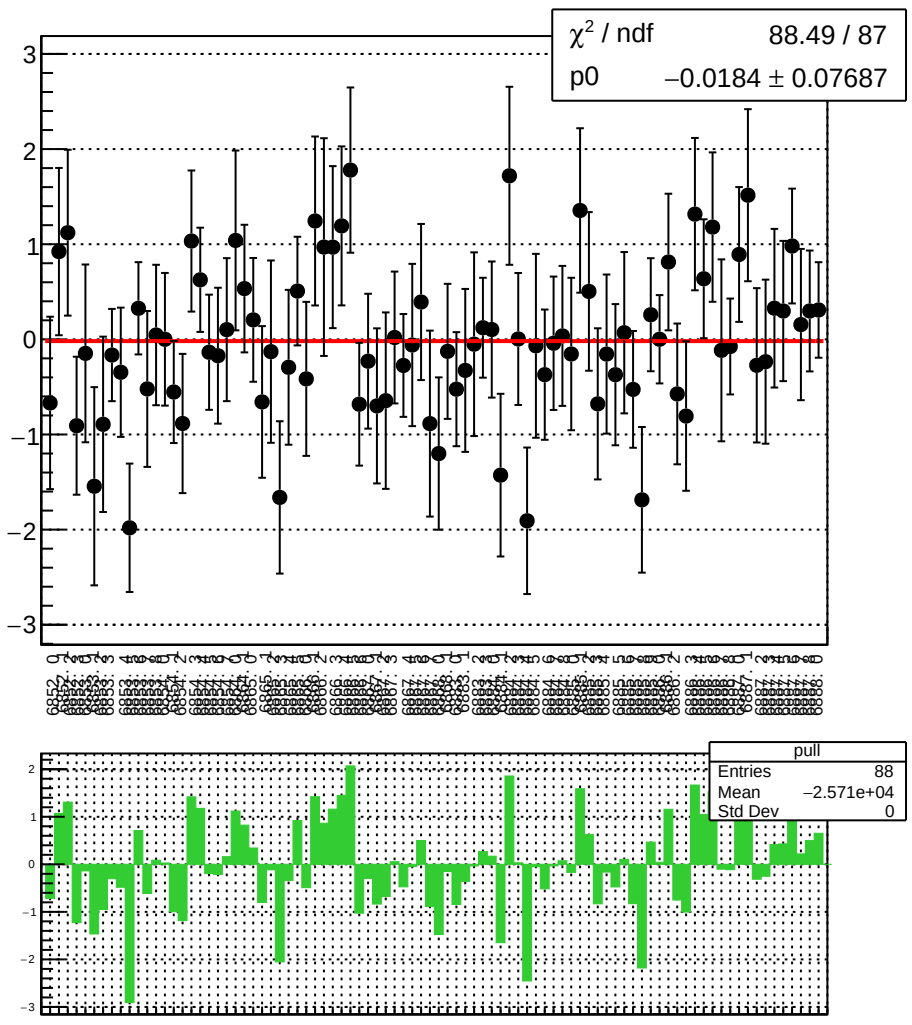

pull1D
Entries 88
Mean −0.0397
Std Dev 0.8457

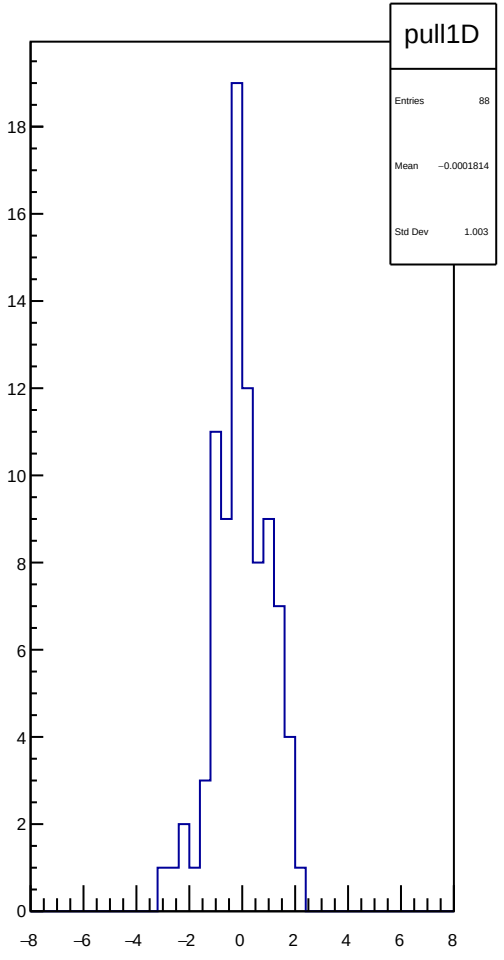

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 7.864e+05 / 87
p0 2.317e−11 ± 2.436e−14

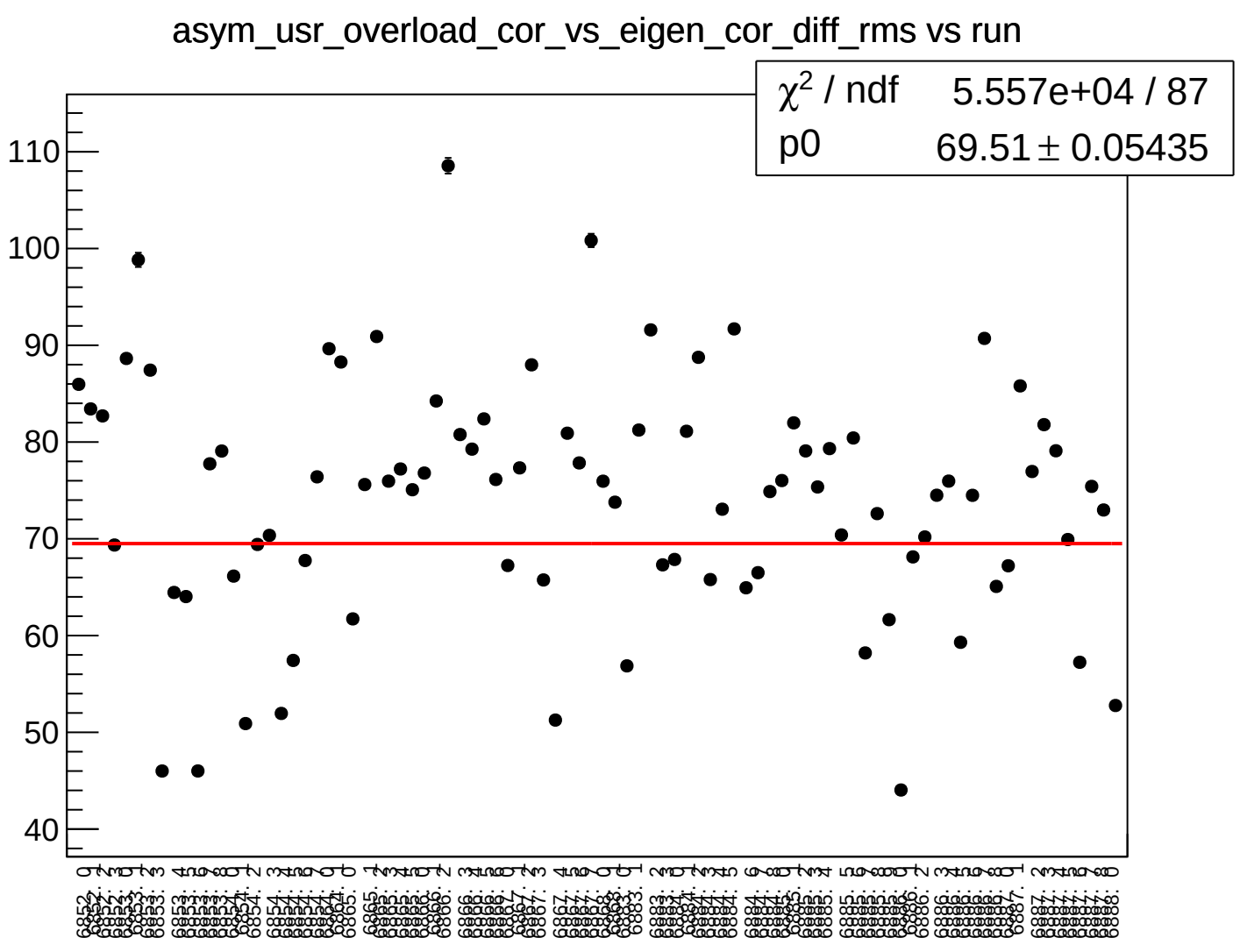

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 88.49 / 87
p0 −0.0184 ± 0.07687
pull
Entries 88
Mean −2.571e+04
Std Dev 0

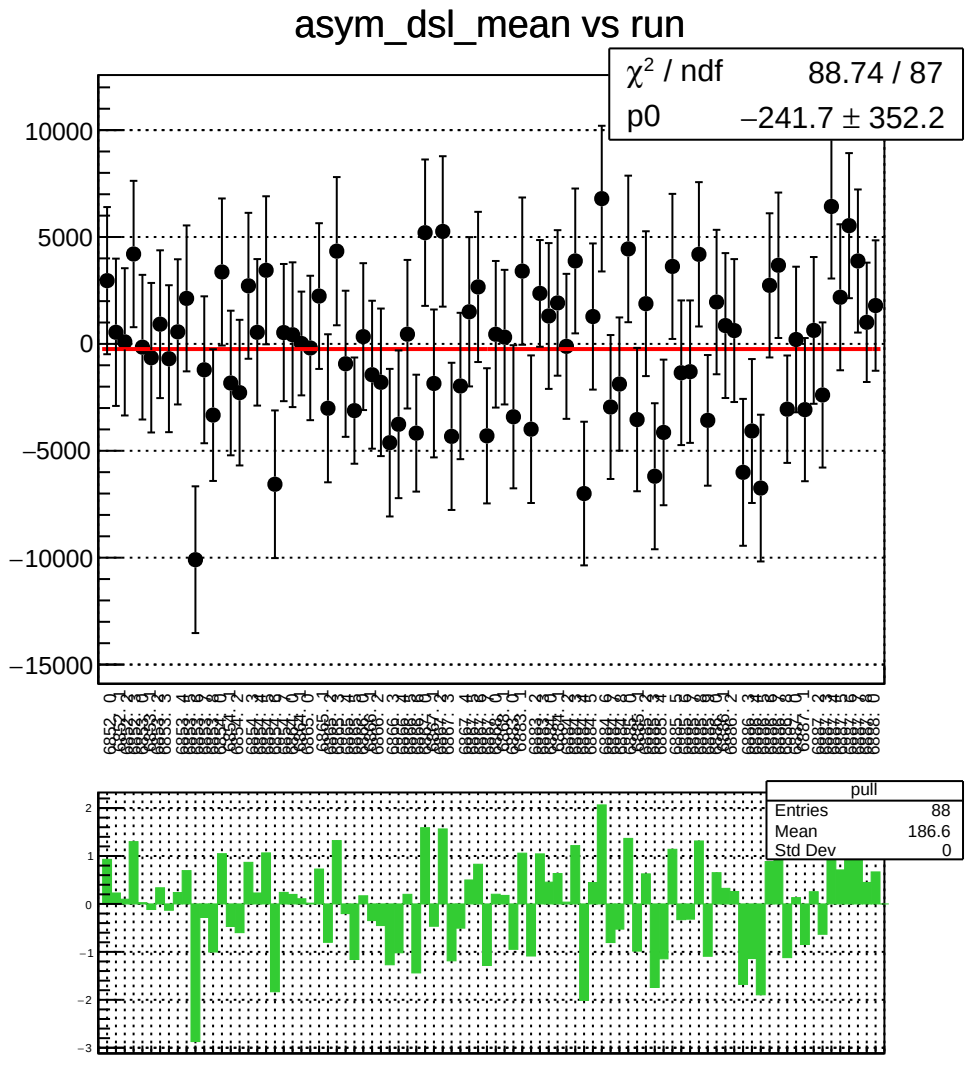

pull1D
Entries 88
Mean −0.0001814
Std Dev 1.003

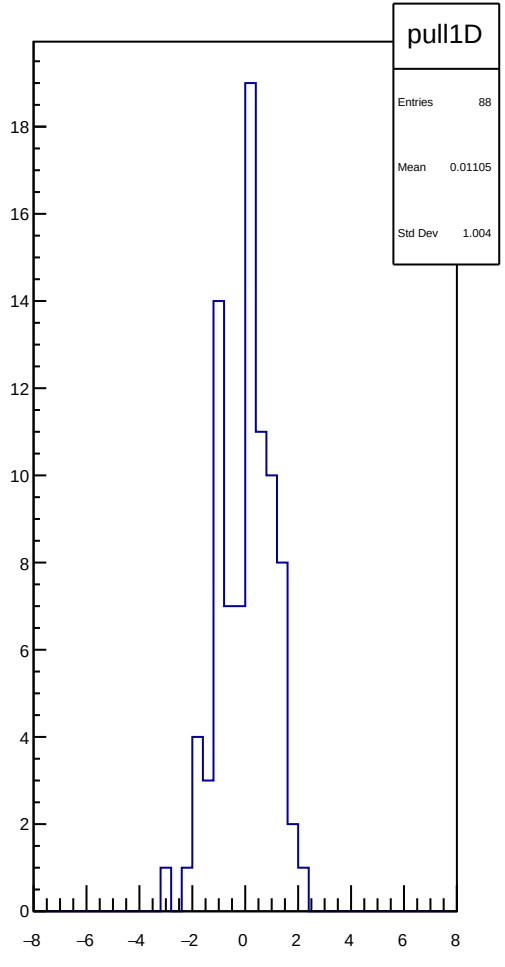

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 5.557e+04 / 87
p0 69.51 ± 0.05435
110
100
90
80
70
60
50
40

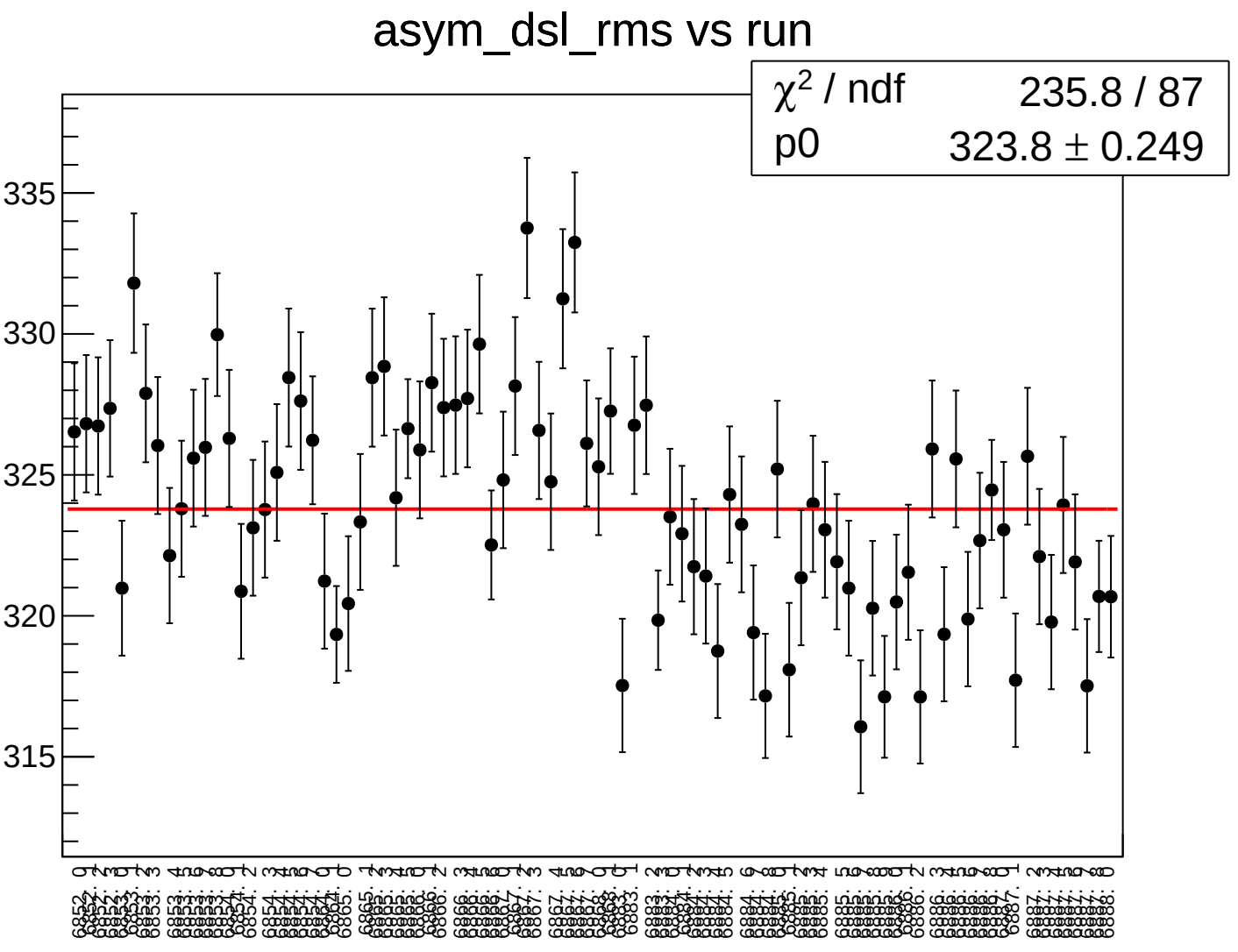

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.49 / 87
p0 −0.0184 ± 0.07687
pull
Entries 88
Mean −2.571e+04
Std Dev 0

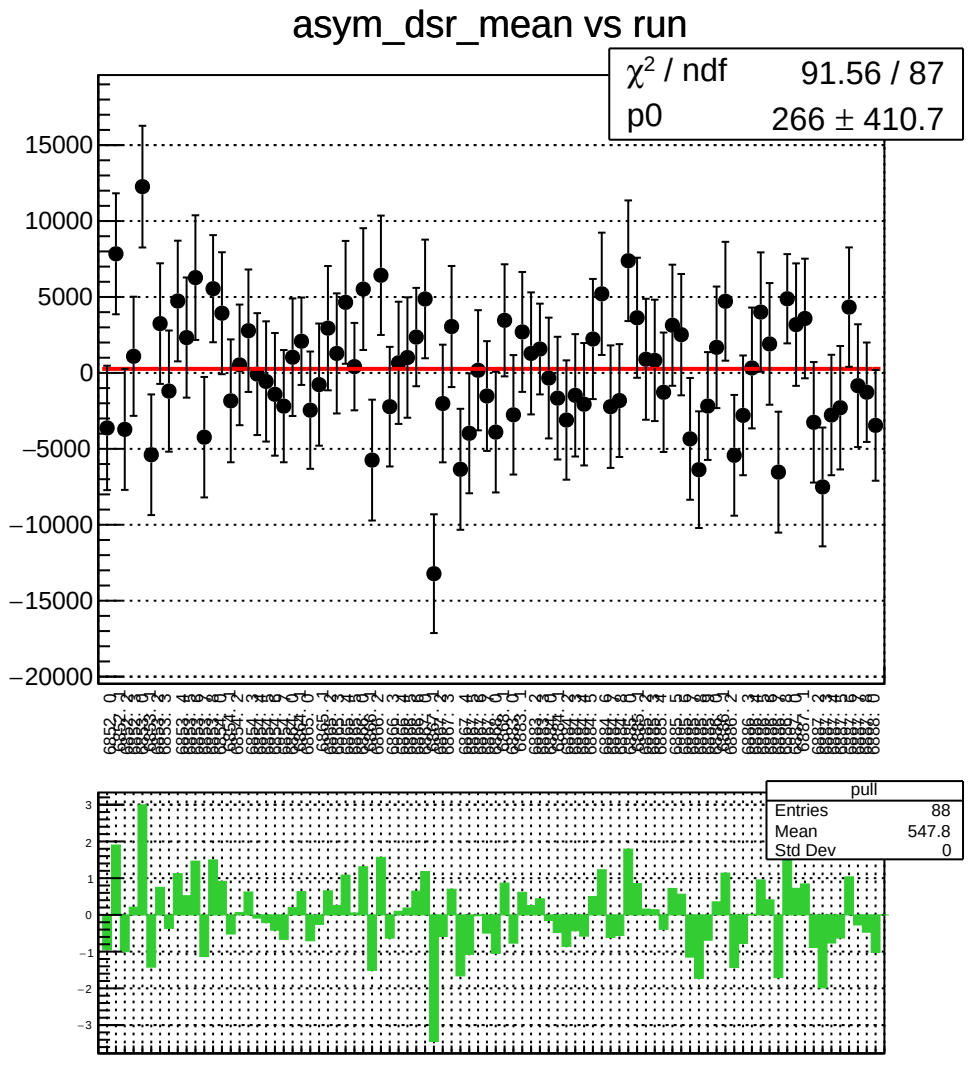

pull1D
Entries 88
Mean −0.0001814
Std Dev 1.003

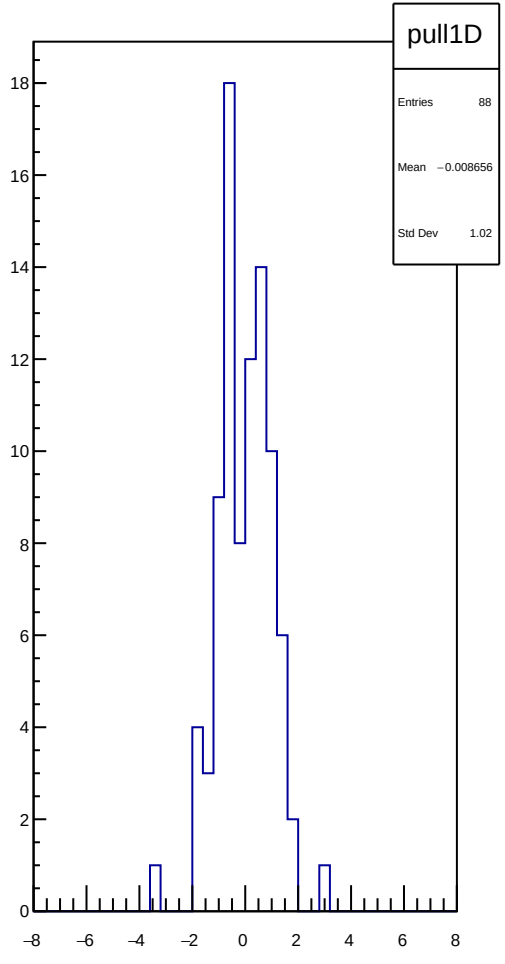

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.557e+04 / 87
p0 69.51 ± 0.05435
110
100
90
80
70
60
50
40

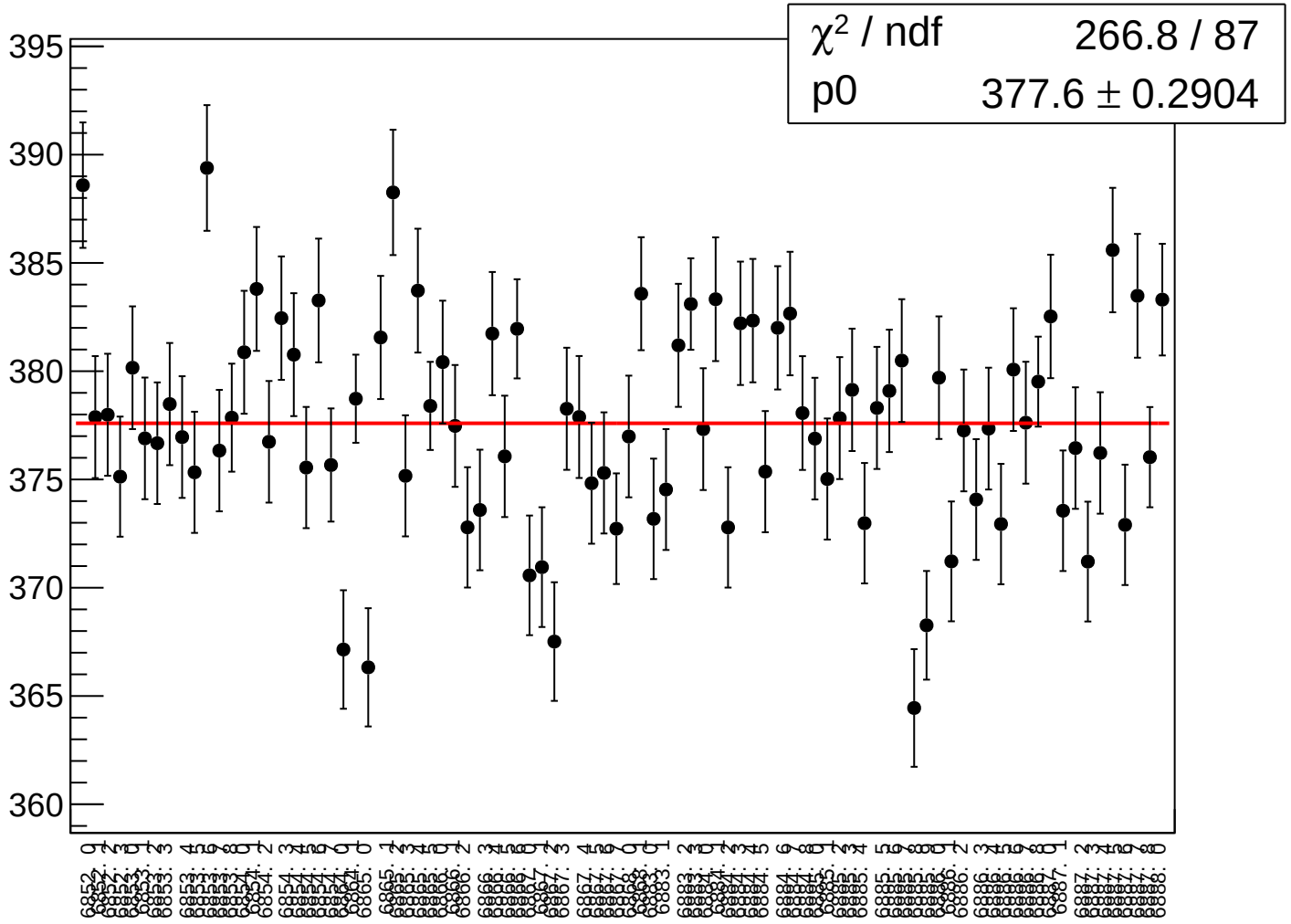

asym_dsl_mean vs run
χ² / ndf 88.74 / 87
p0 −241.7 ± 352.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 186.6
Std Dev 0
2
1
0
−1
−2
−3

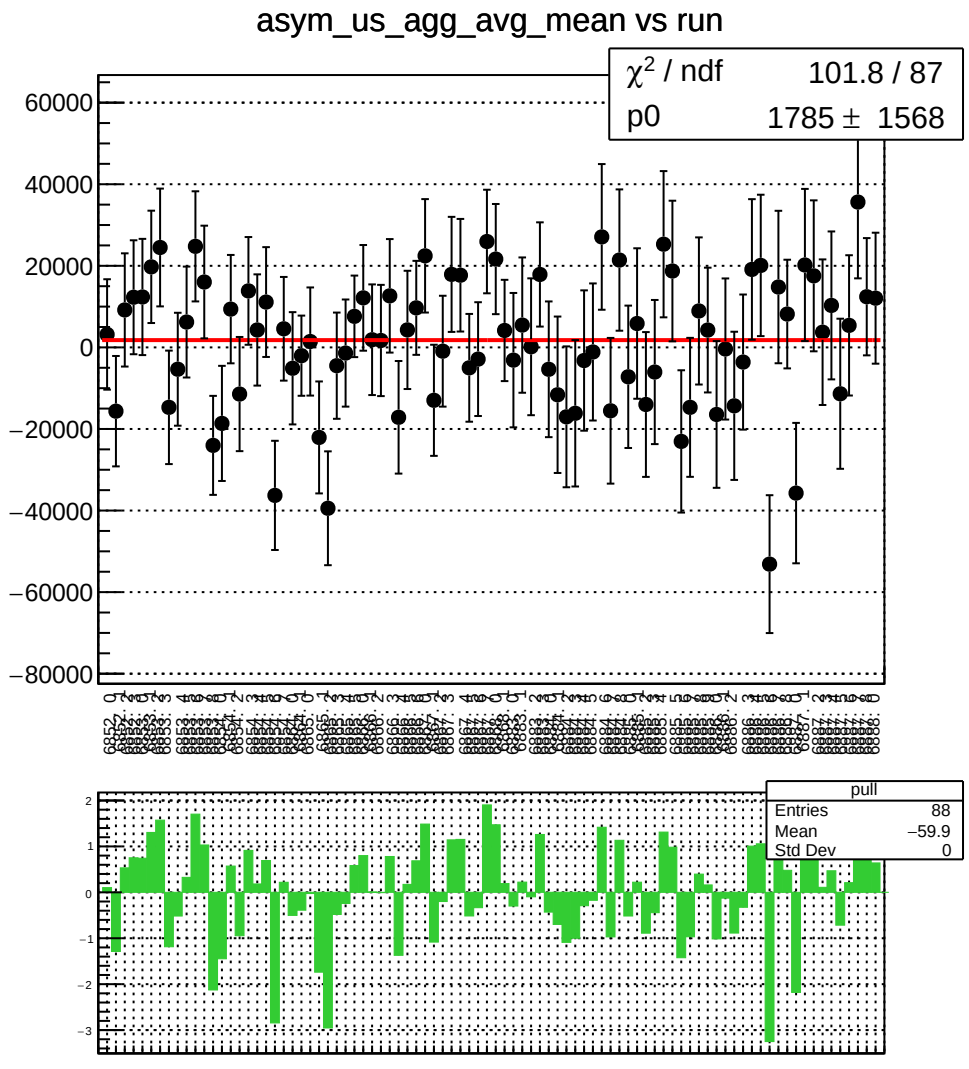

pull1D
Entries 88
Mean 0.01105
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

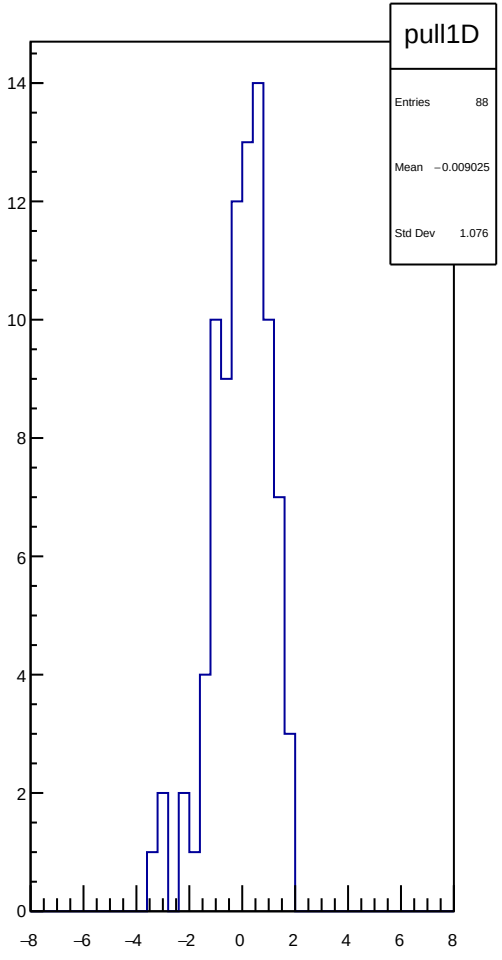

asym_dsl_rms vs run
χ^2 / ndf 235.8 / 87
p0 323.8 ± 0.249
335
330
325
320
315

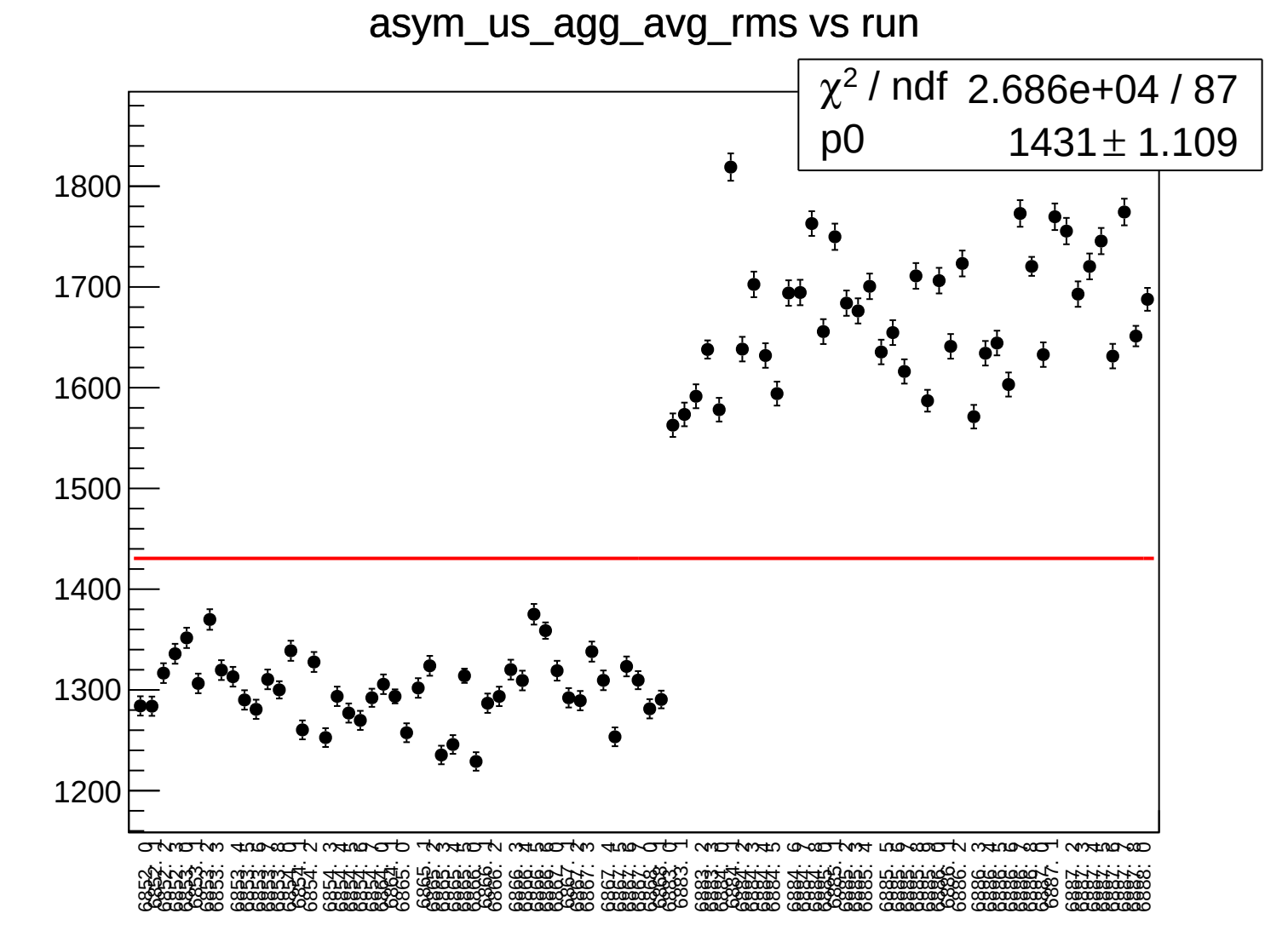

asym_dsr_mean vs run
χ² / ndf 91.56 / 87
p0 266 ± 410.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 547.8
Std Dev 0
3
2
1
0
−1
−2
−3

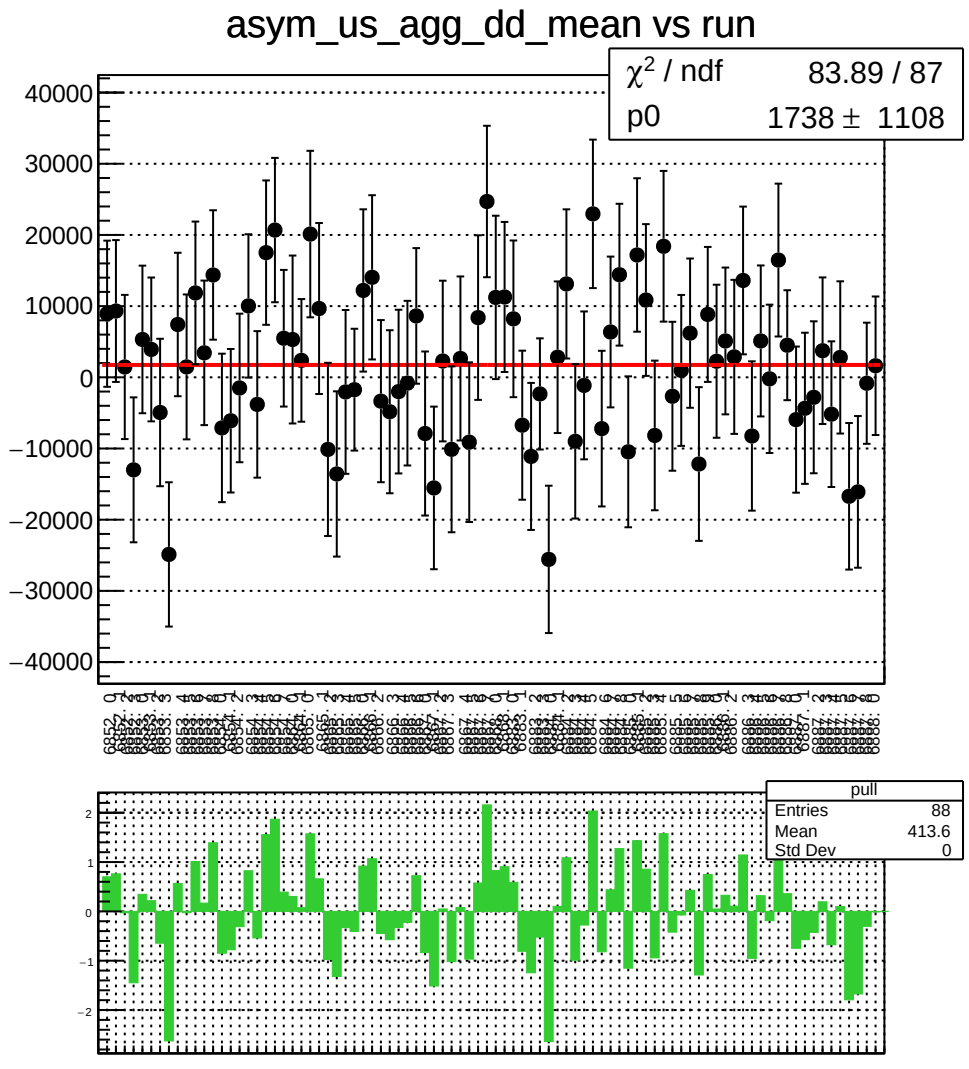

pull1D
Entries 88
Mean −0.008656
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

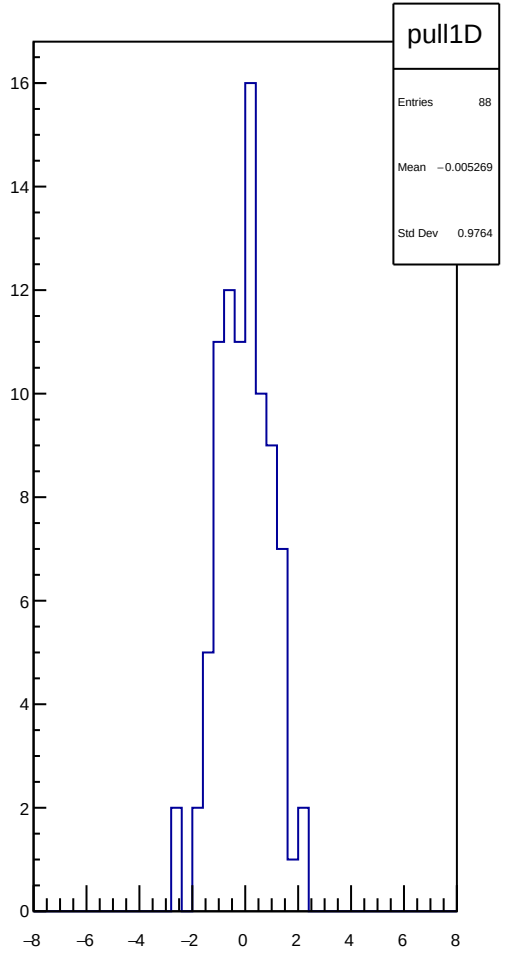

asym_dsr_rms vs run
χ² / ndf 266.8 / 87
p0 377.6 ± 0.2904
395
390
385
380
375
370
365
360

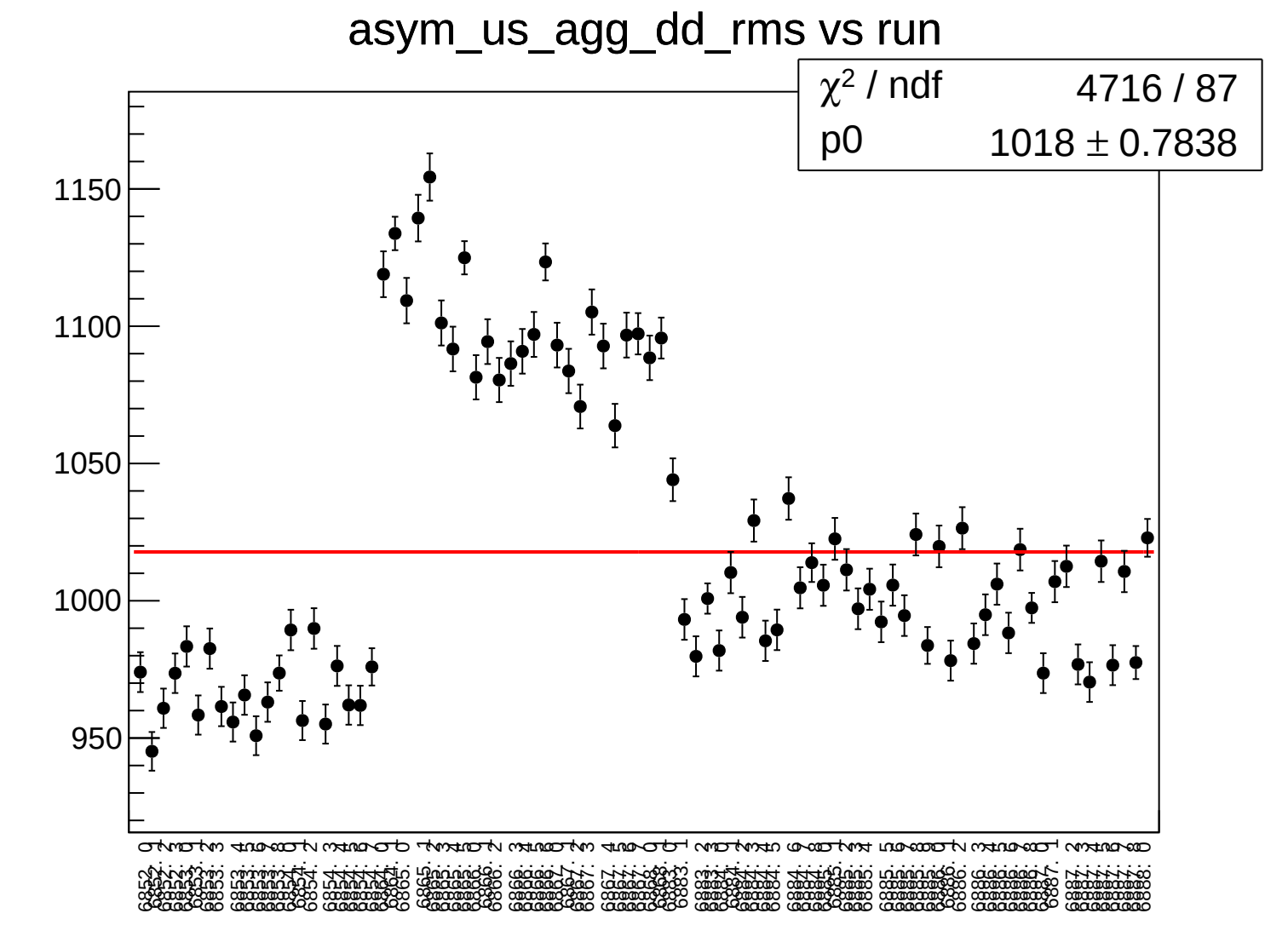

asym_us_agg_avg_mean vs run
χ² / ndf 101.8 / 87
p0 1785 ± 1568
pull
Entries 88
Mean −59.9
Std Dev 0

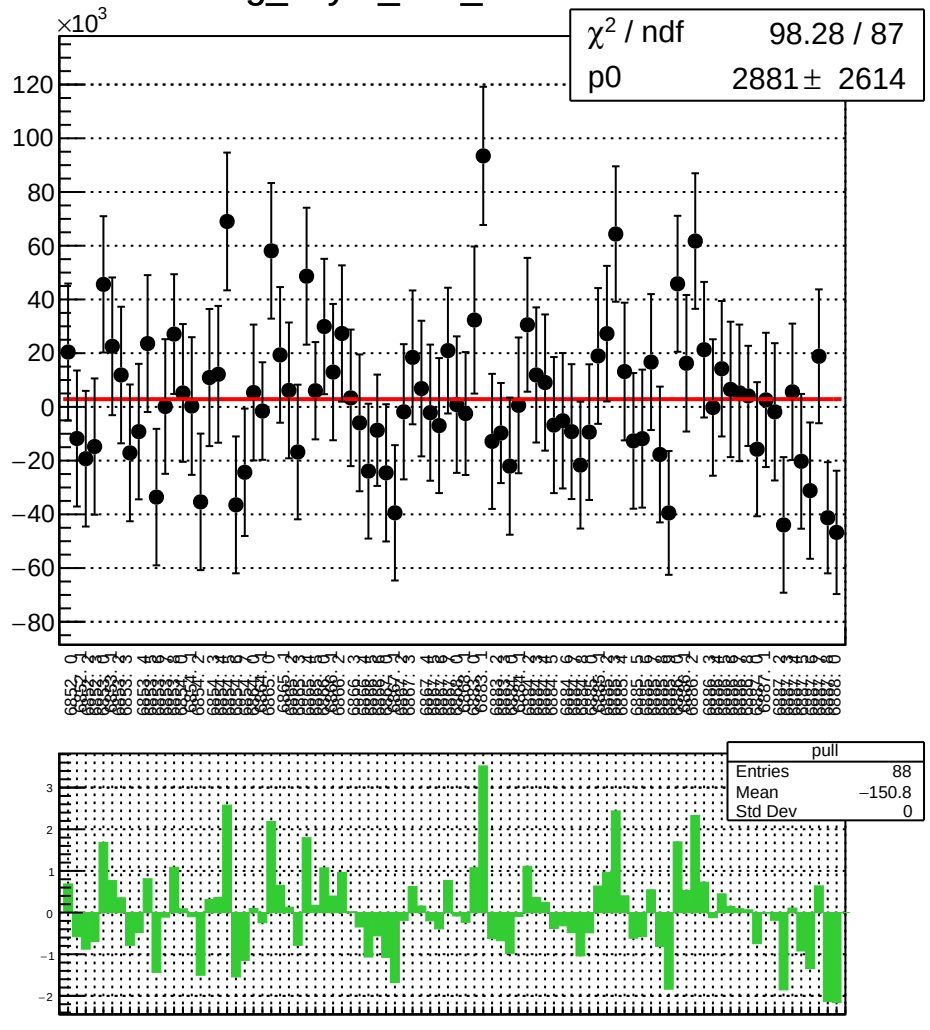

pull1D
Entries 88
Mean −0.009025
Std Dev 1.076

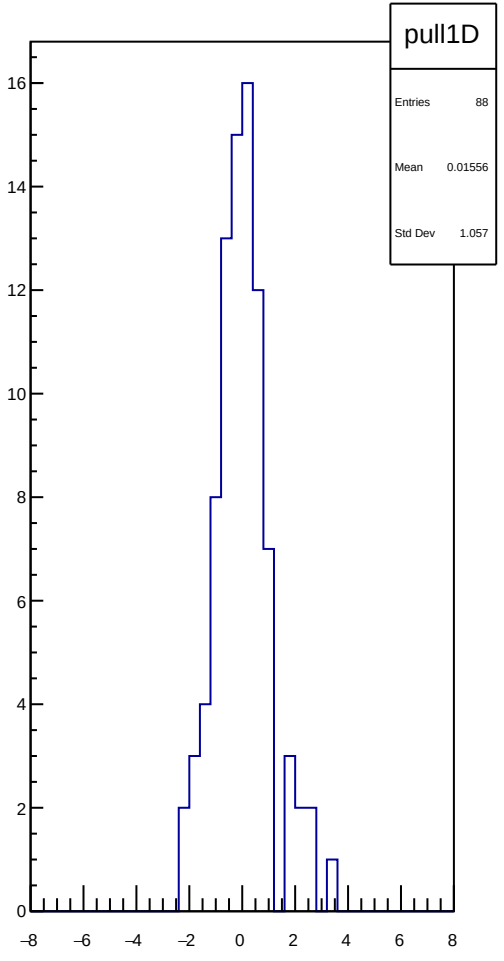

asym_us_agg_avg_rms vs run
χ² / ndf 2.686e+04 / 87
p0 1431 ± 1.109
1800
1700
1600
1500
1400
1300
1200

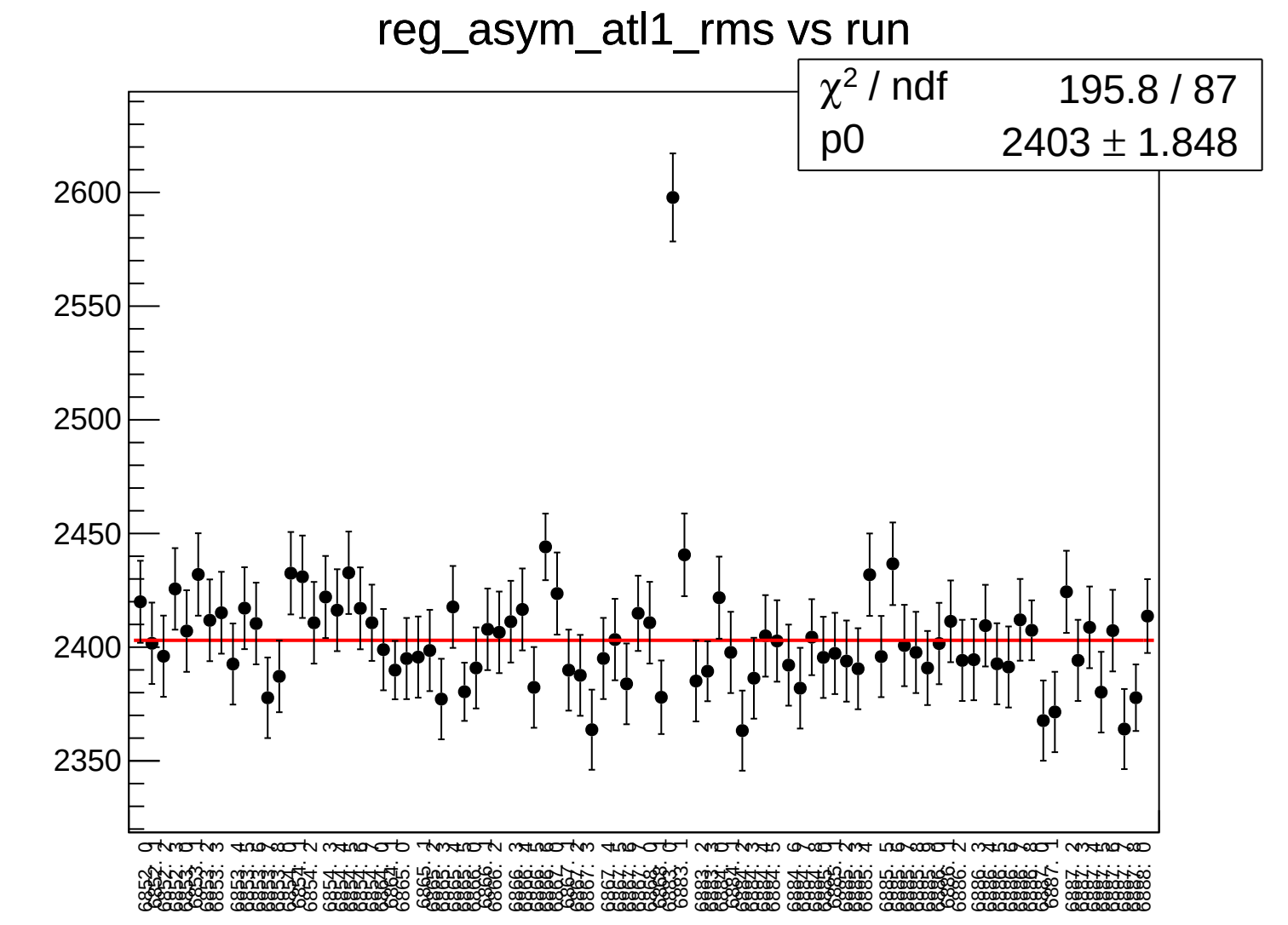

asym_us_agg_dd_mean vs run
χ² / ndf 83.89 / 87
p0 1738 ± 1108
pull
Entries 88
Mean 413.6
Std Dev 0

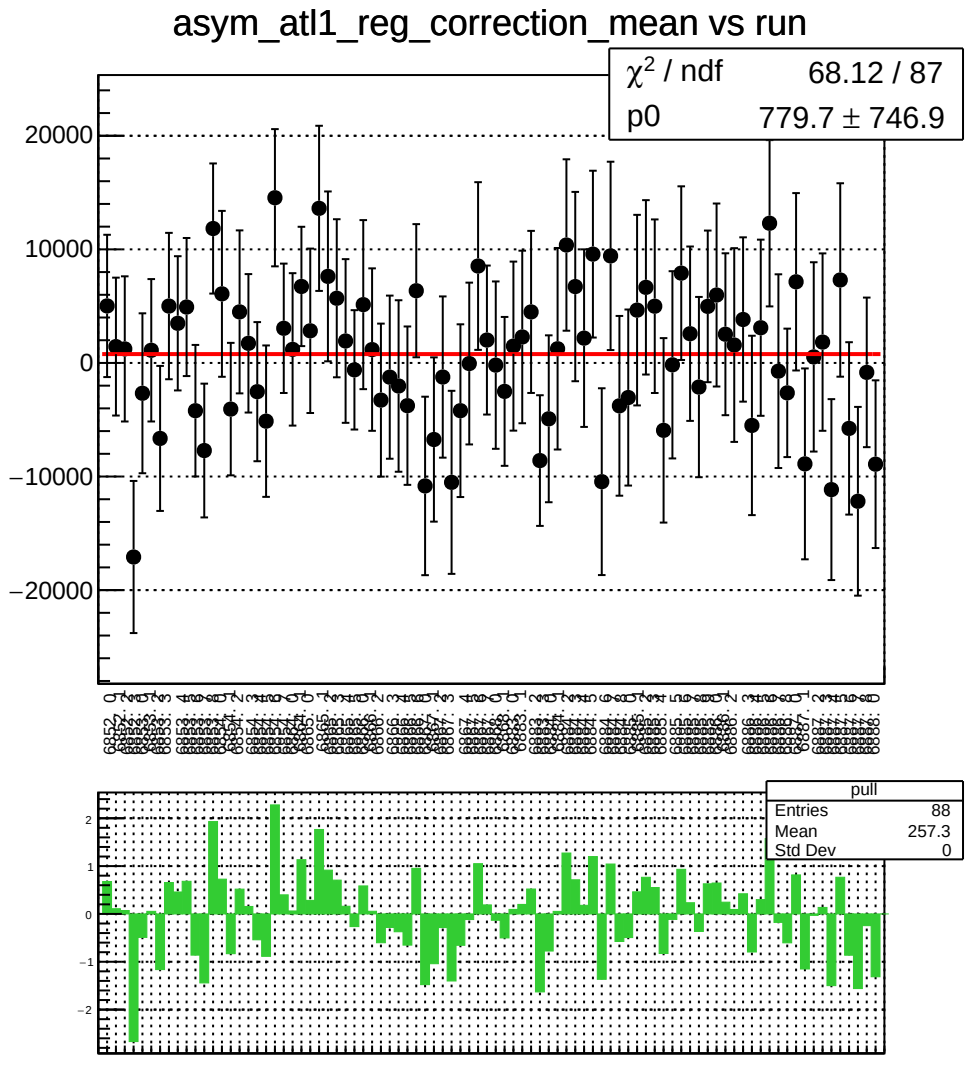

pull1D
Entries 88
Mean −0.005269
Std Dev 0.9764

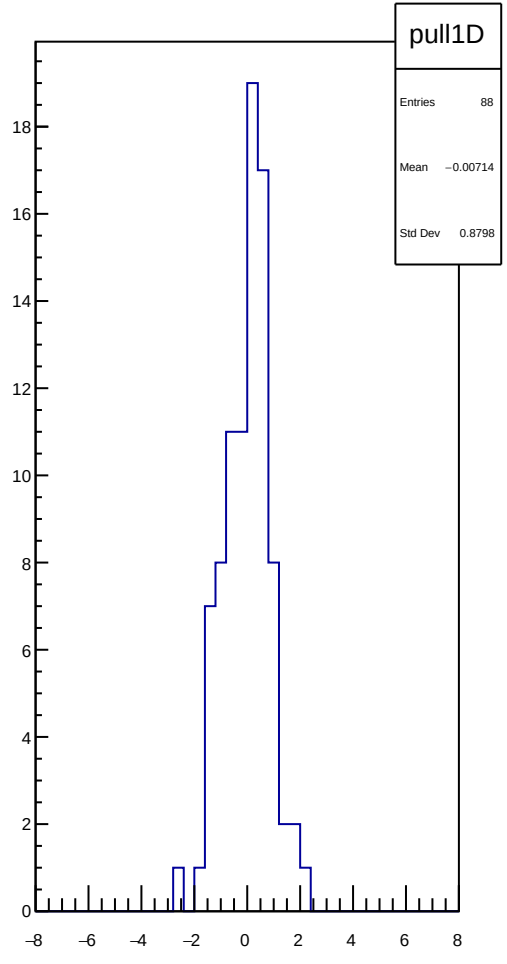

asym_us_agg_dd_rms vs run
χ^2 / ndf 4716 / 87
p0 1018 ± 0.7838
1150
1100
1050
1000
950

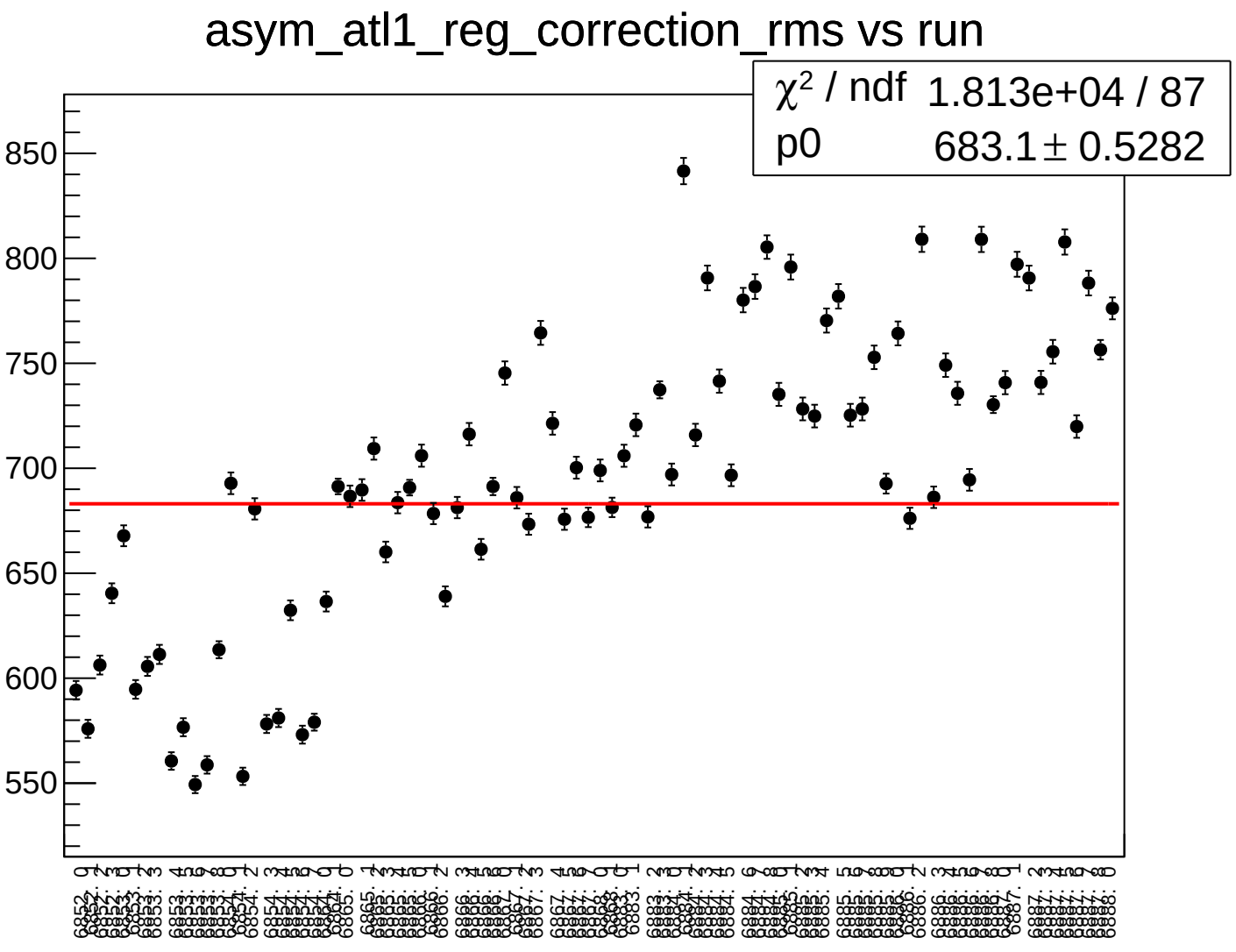

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 98.28 / 87
p0 2881 ± 2614
pull
Entries 88
Mean −150.8
Std Dev 0

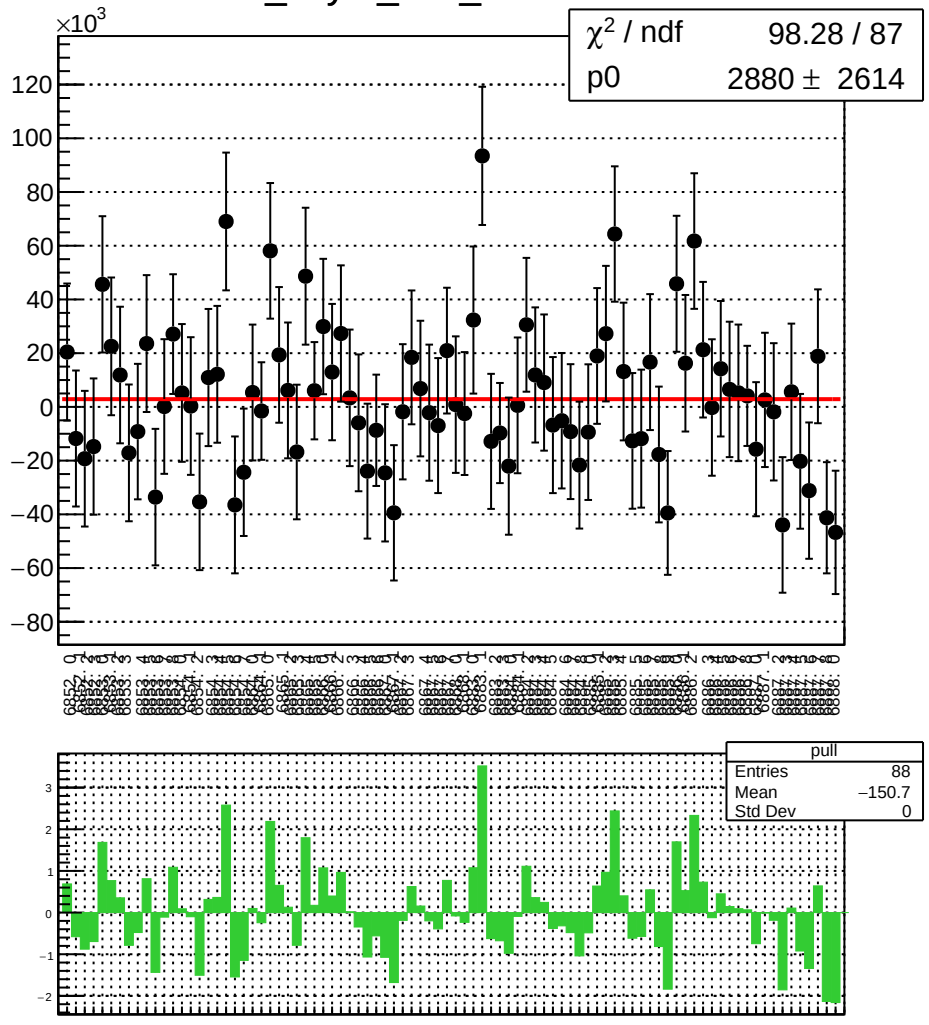

pull1D
Entries 88
Mean 0.01556
Std Dev 1.057

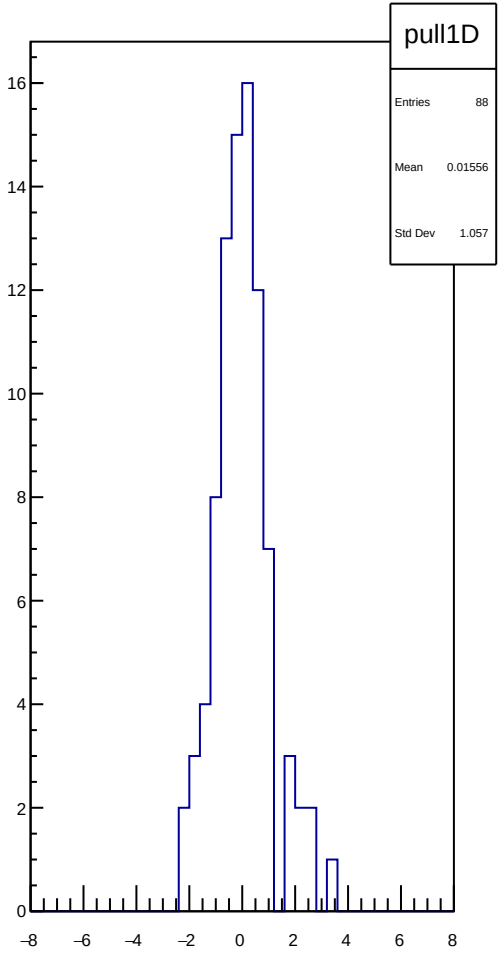

reg_asym_atl1_rms vs run
χ² / ndf 195.8 / 87
p0 2403 ± 1.848
2600
2550
2500
2450
2400
2350

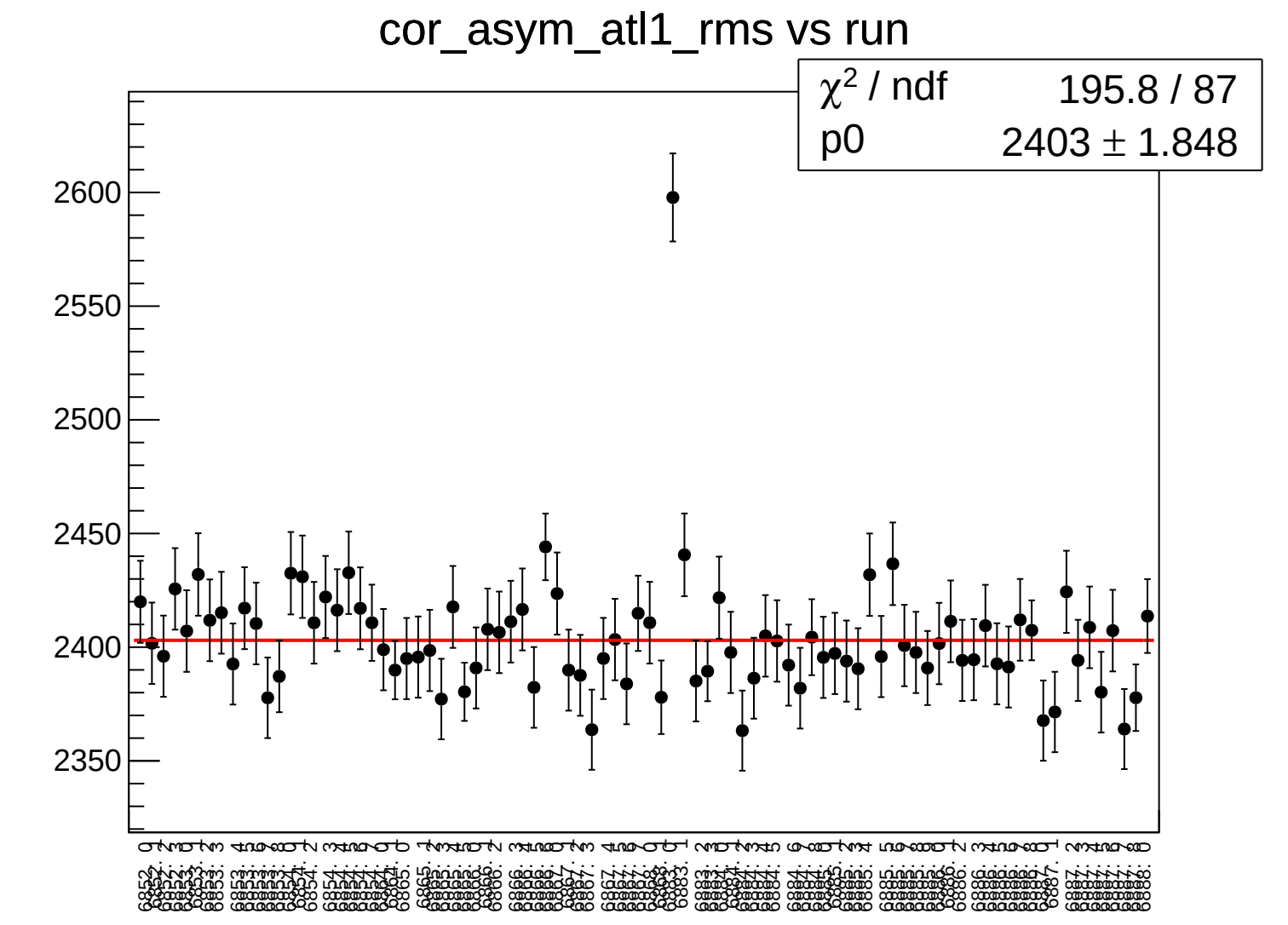

asym_atl1_reg_correction_mean vs run
χ² / ndf 68.12 / 87
p0 779.7 ± 746.9
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 257.3
Std Dev 0
2
1
0
−1
−2

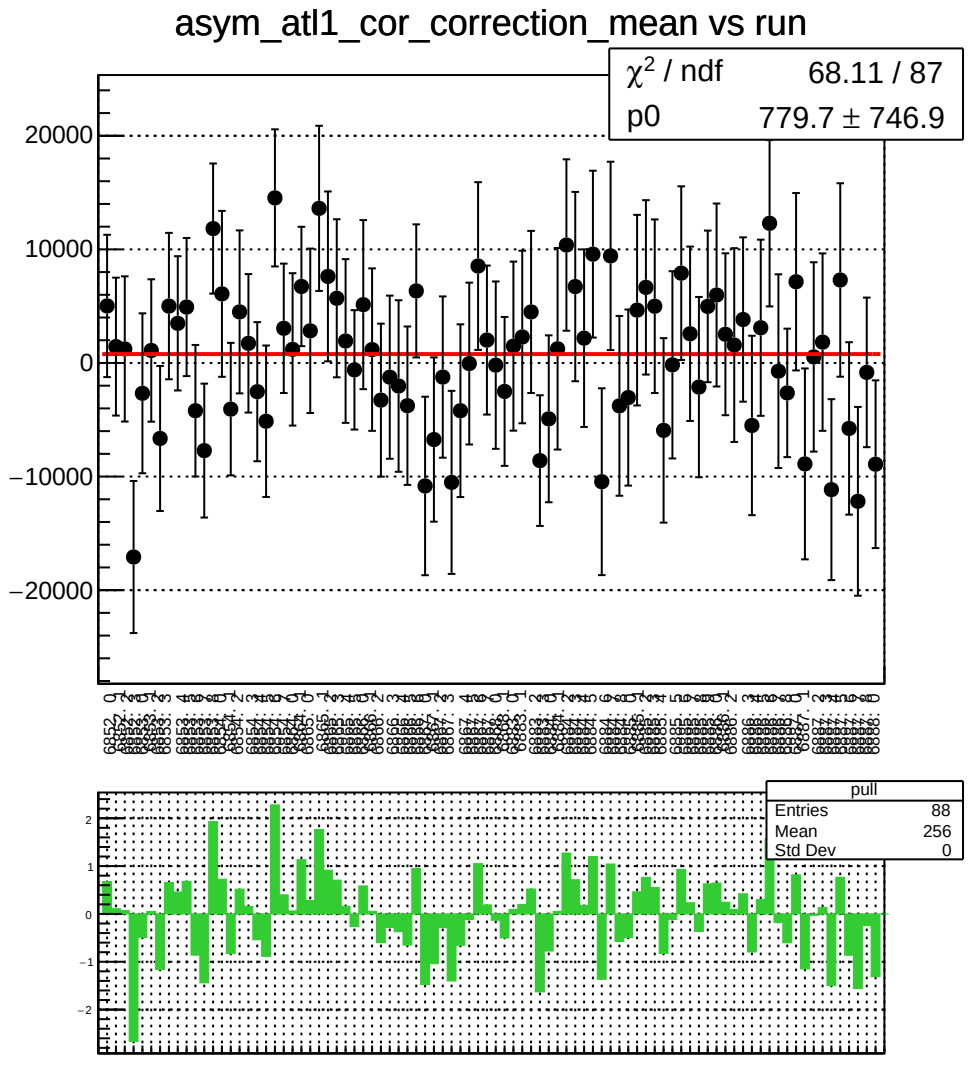

pull1D
Entries 88
Mean −0.00714
Std Dev 0.8798
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

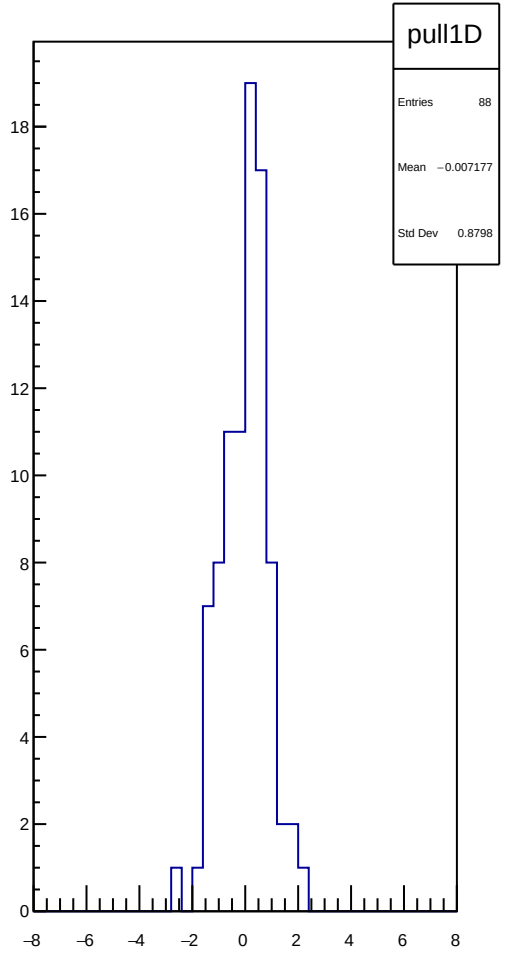

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.813e+04 / 87
p0 683.1 ± 0.5282
850
800
750
700
650
600
550

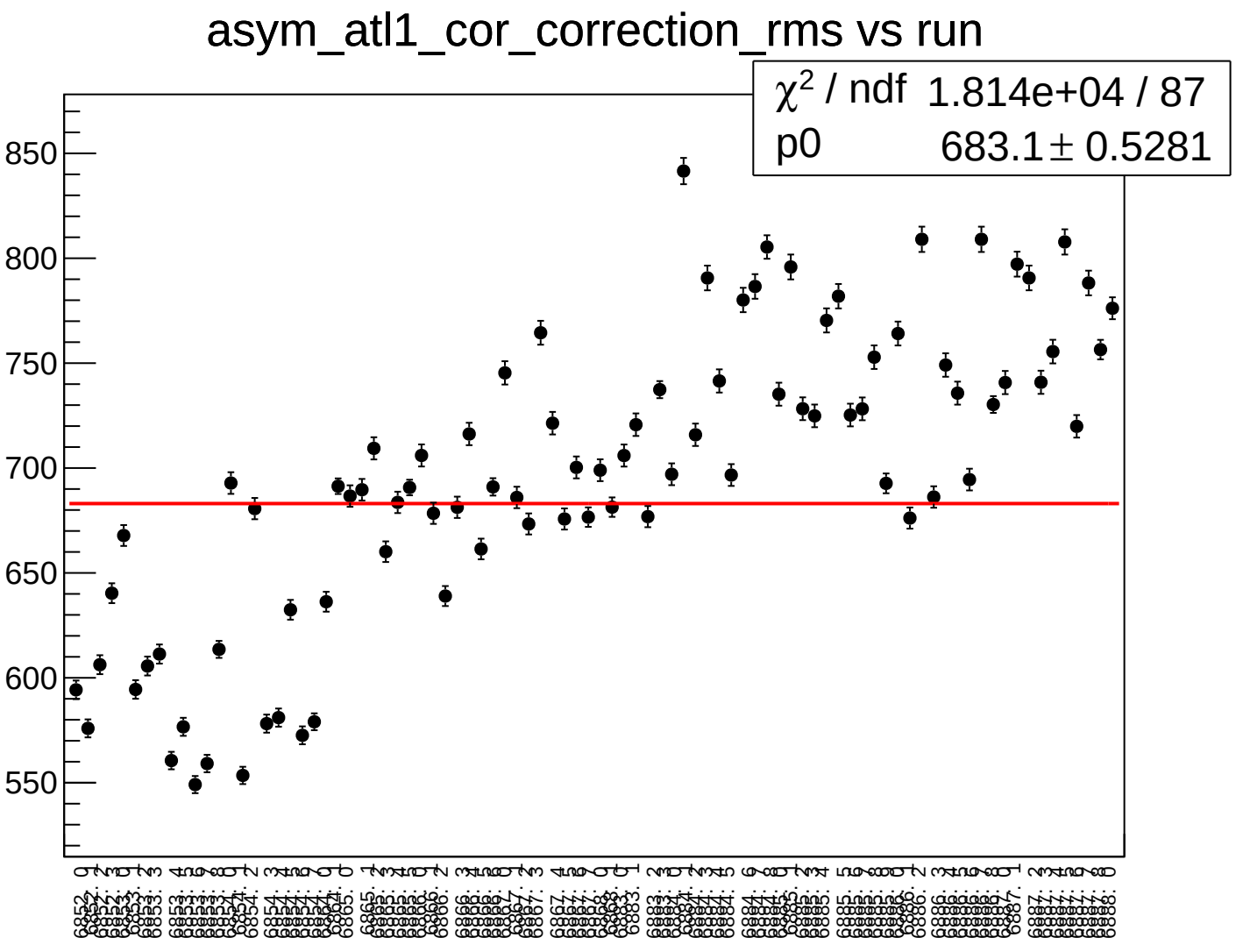

cor_asym_atl1_mean vs run
χ² / ndf 98.28 / 87
p0 2880 ± 2614
×10³
pull
Entries 88
Mean −150.7
Std Dev 0

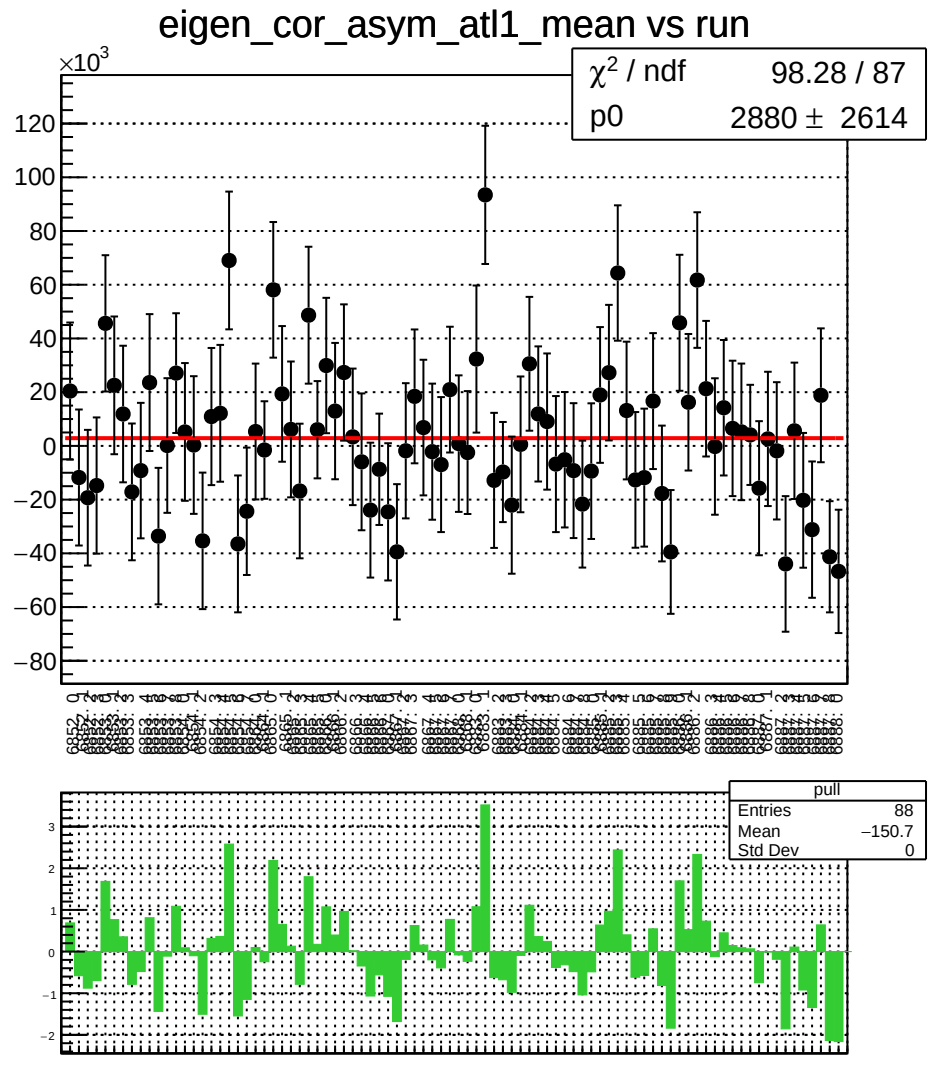

pull1D
Entries 88
Mean 0.01556
Std Dev 1.057

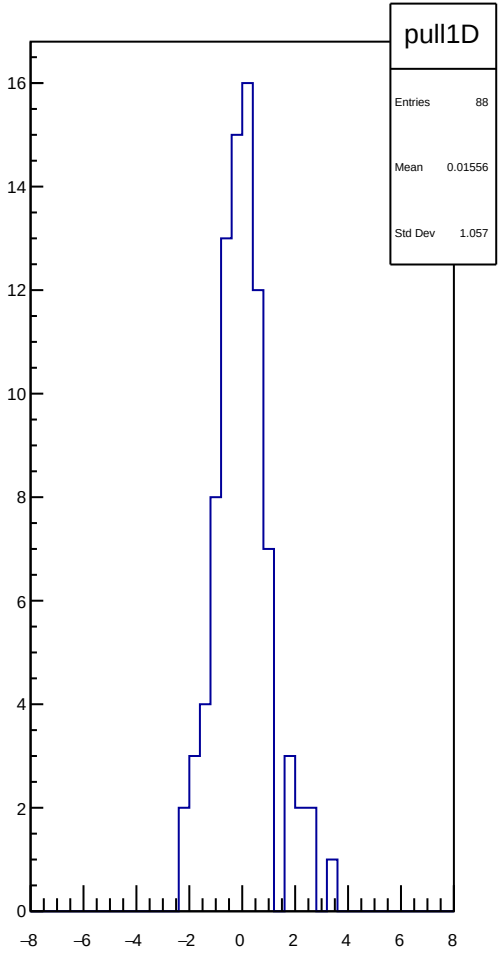

cor_asym_atl1_rms vs run
χ^2 / ndf 195.8 / 87
p0 2403 ± 1.848
2600
2550
2500
2450
2400
2350

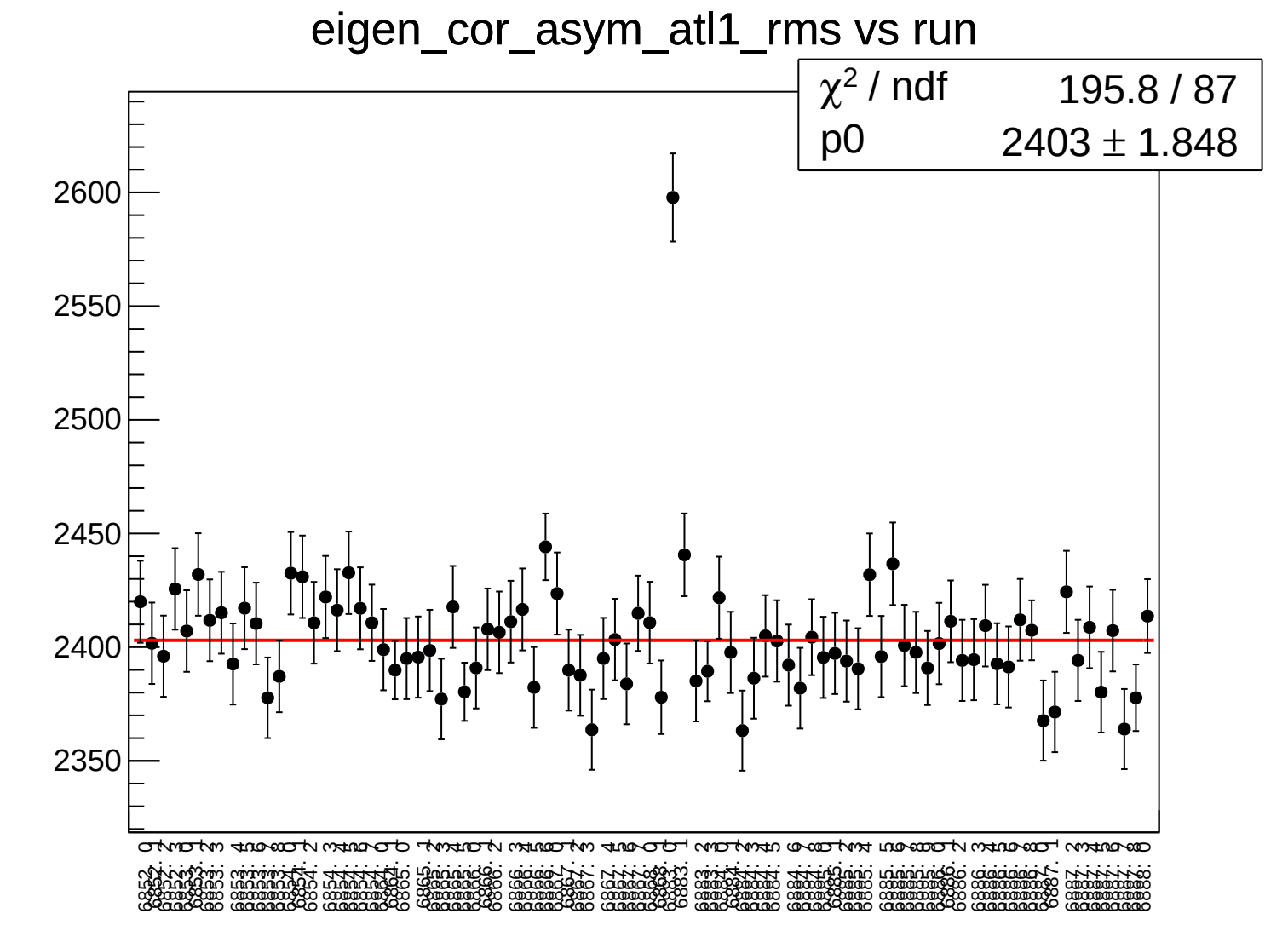

asym_atl1_cor_correction_mean vs run
χ² / ndf 68.11 / 87
p0 779.7 ± 746.9
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 256
Std Dev 0
2
1
0
−1
−2

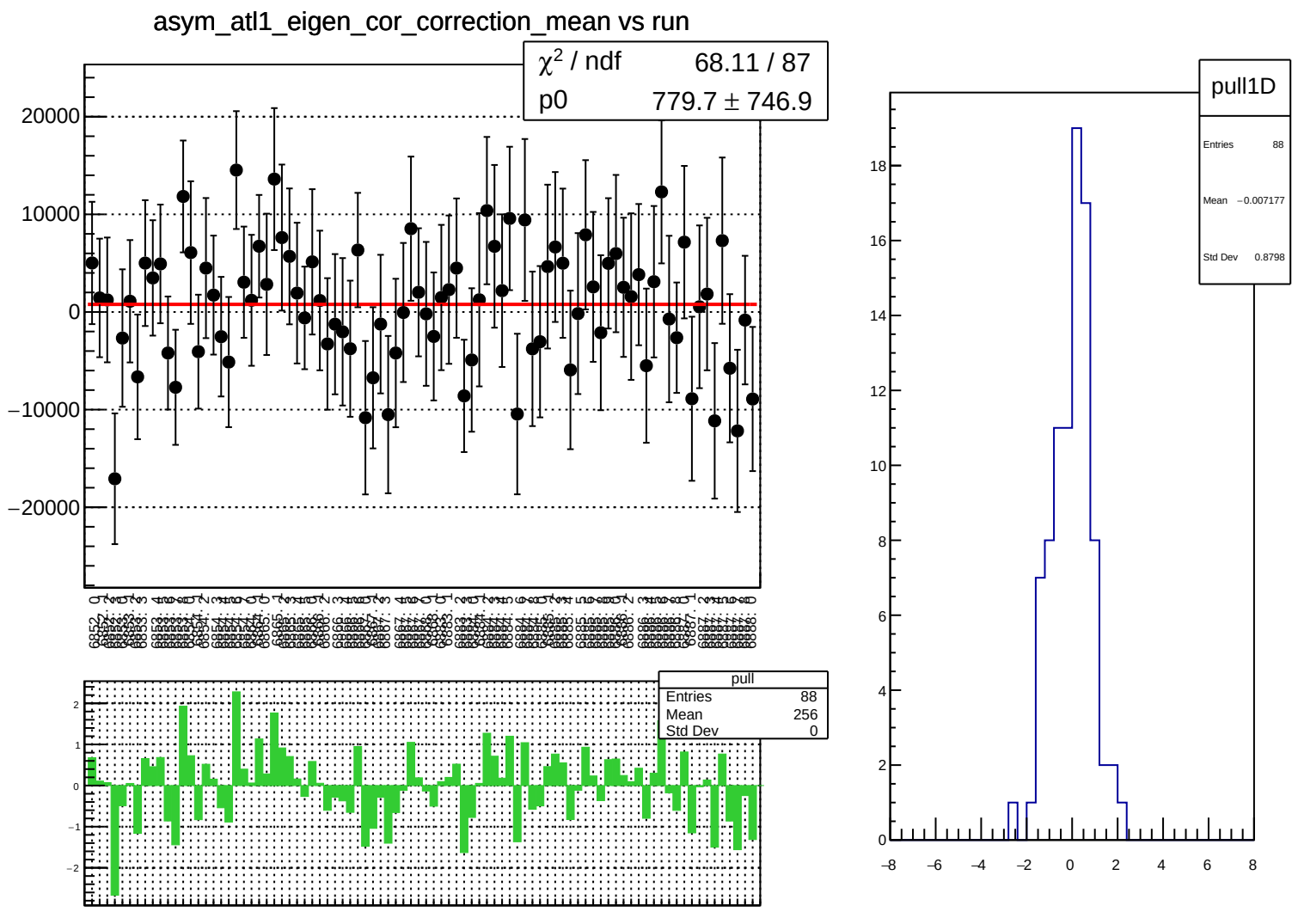

pull1D
Entries 88
Mean −0.007177
Std Dev 0.8798
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

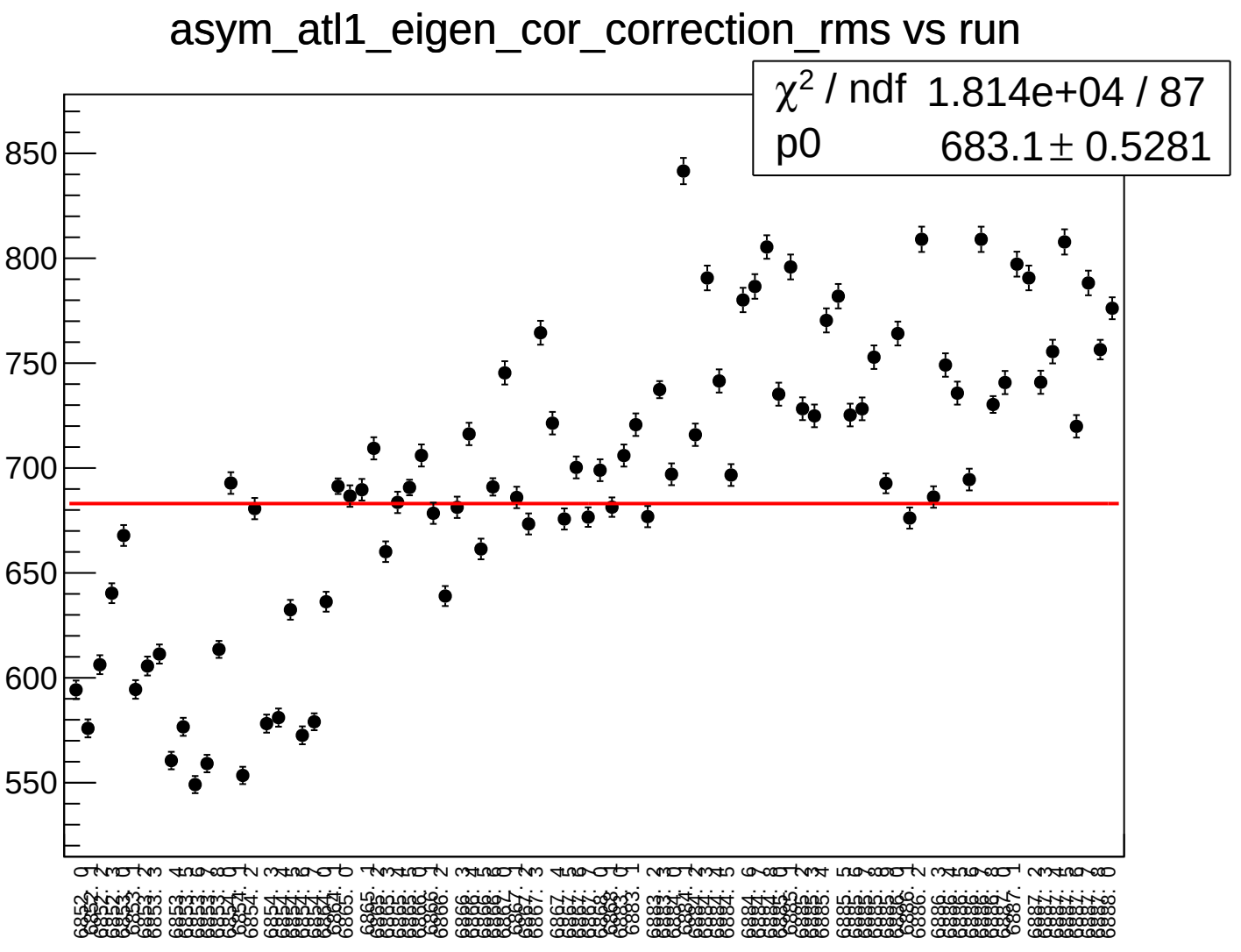

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.814e+04 / 87
p0 683.1 ± 0.5281
850
800
750
700
650
600
550

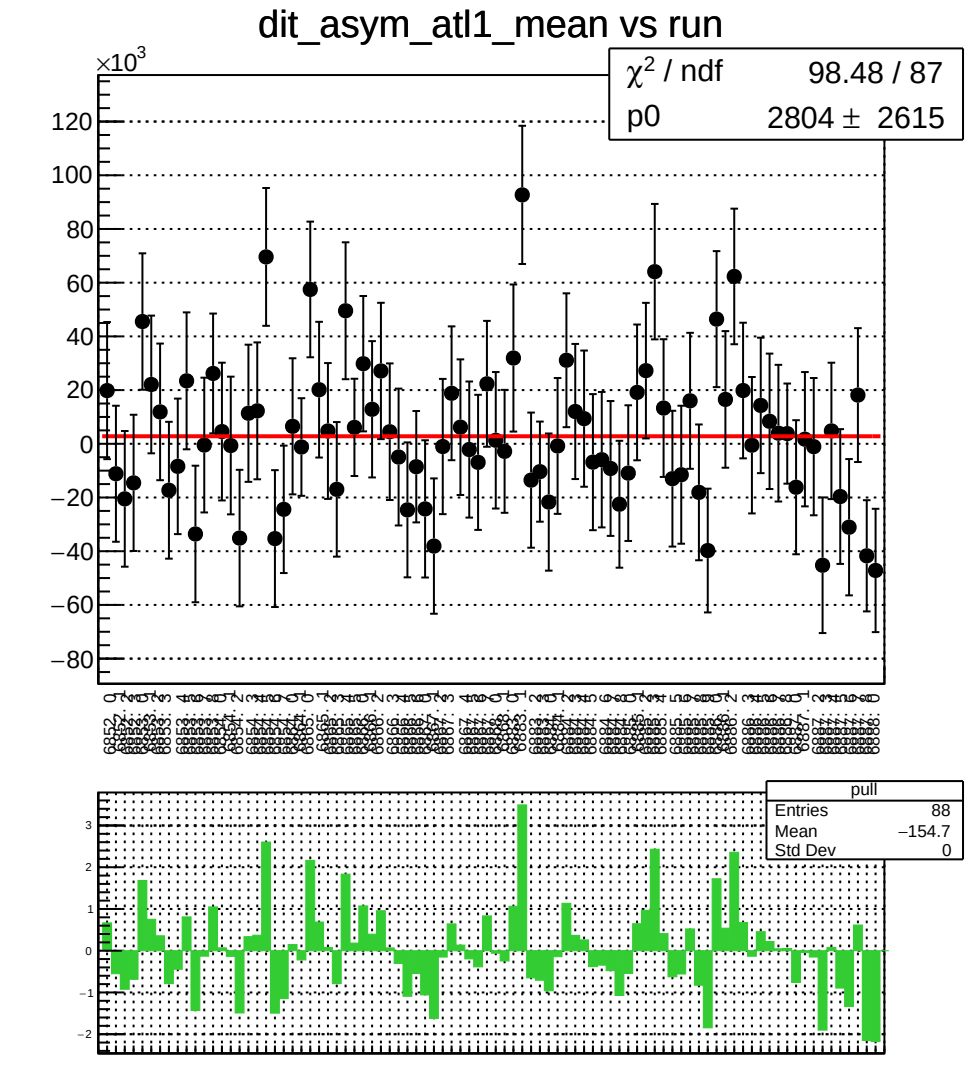

eigen_cor_asym_atl1_mean vs run
χ² / ndf 98.28 / 87
p0 2880 ± 2614
×10³
pull
Entries 88
Mean −150.7
Std Dev 0

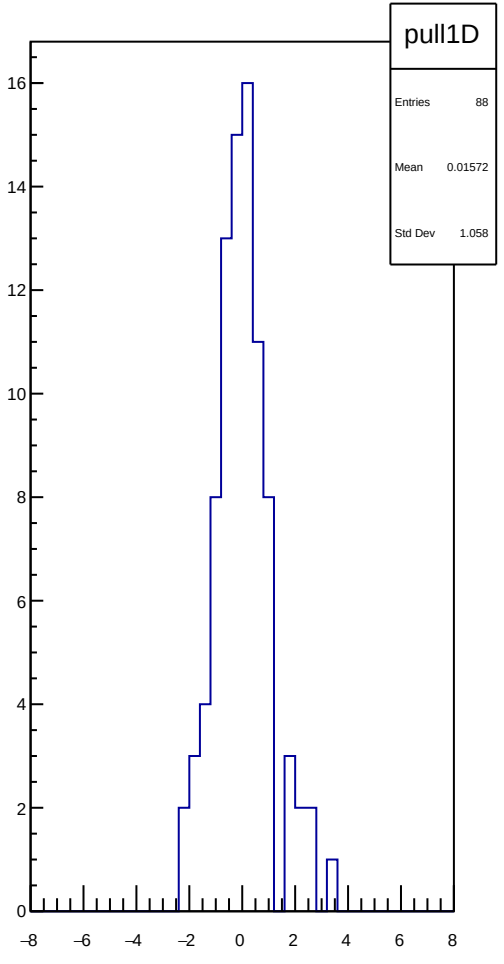

pull1D
Entries 88
Mean 0.01556
Std Dev 1.057

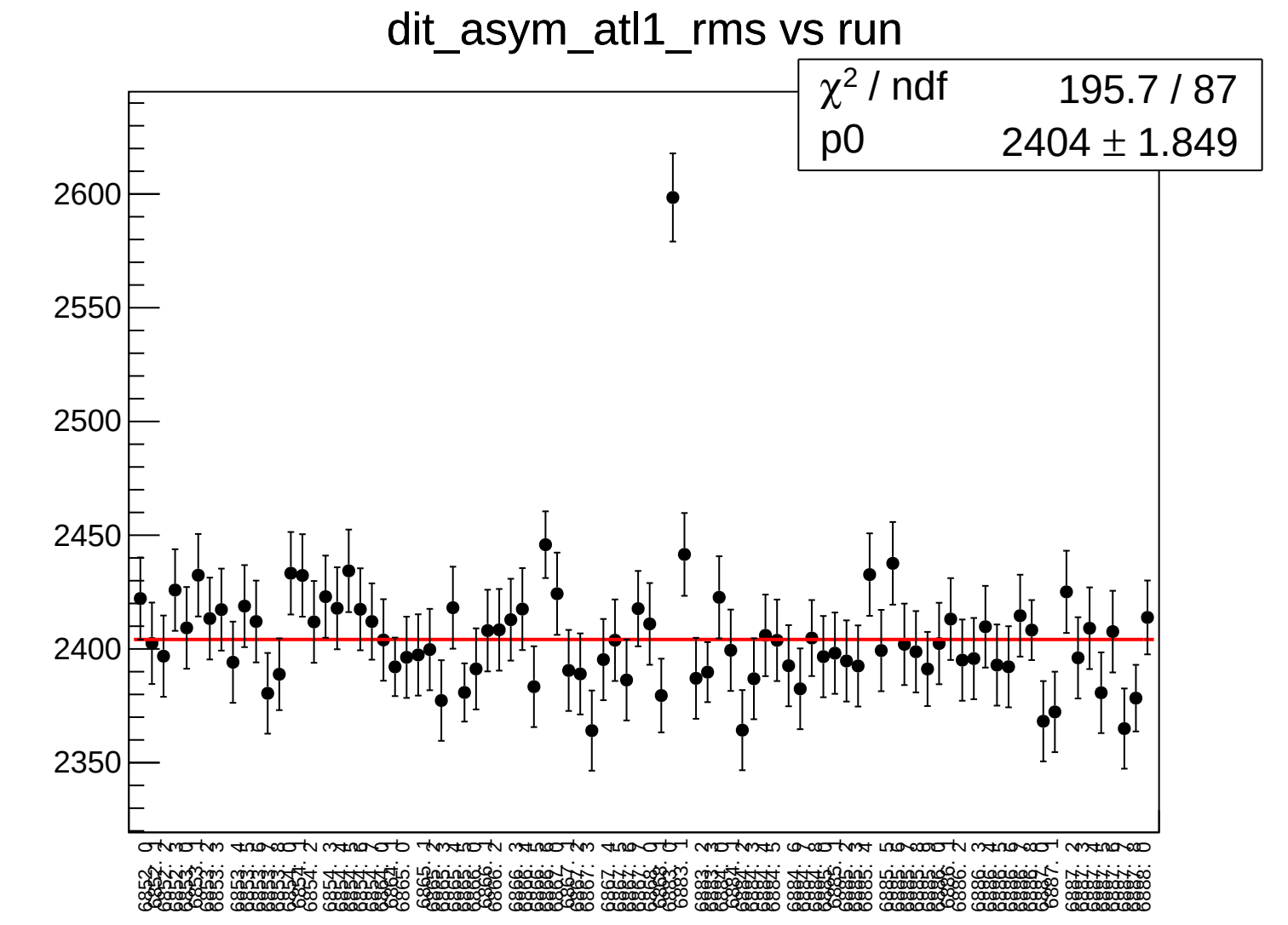

eigen_cor_asym_atl1_rms vs run
χ² / ndf 195.8 / 87
p0 2403 ± 1.848
2600
2550
2500
2450
2400
2350

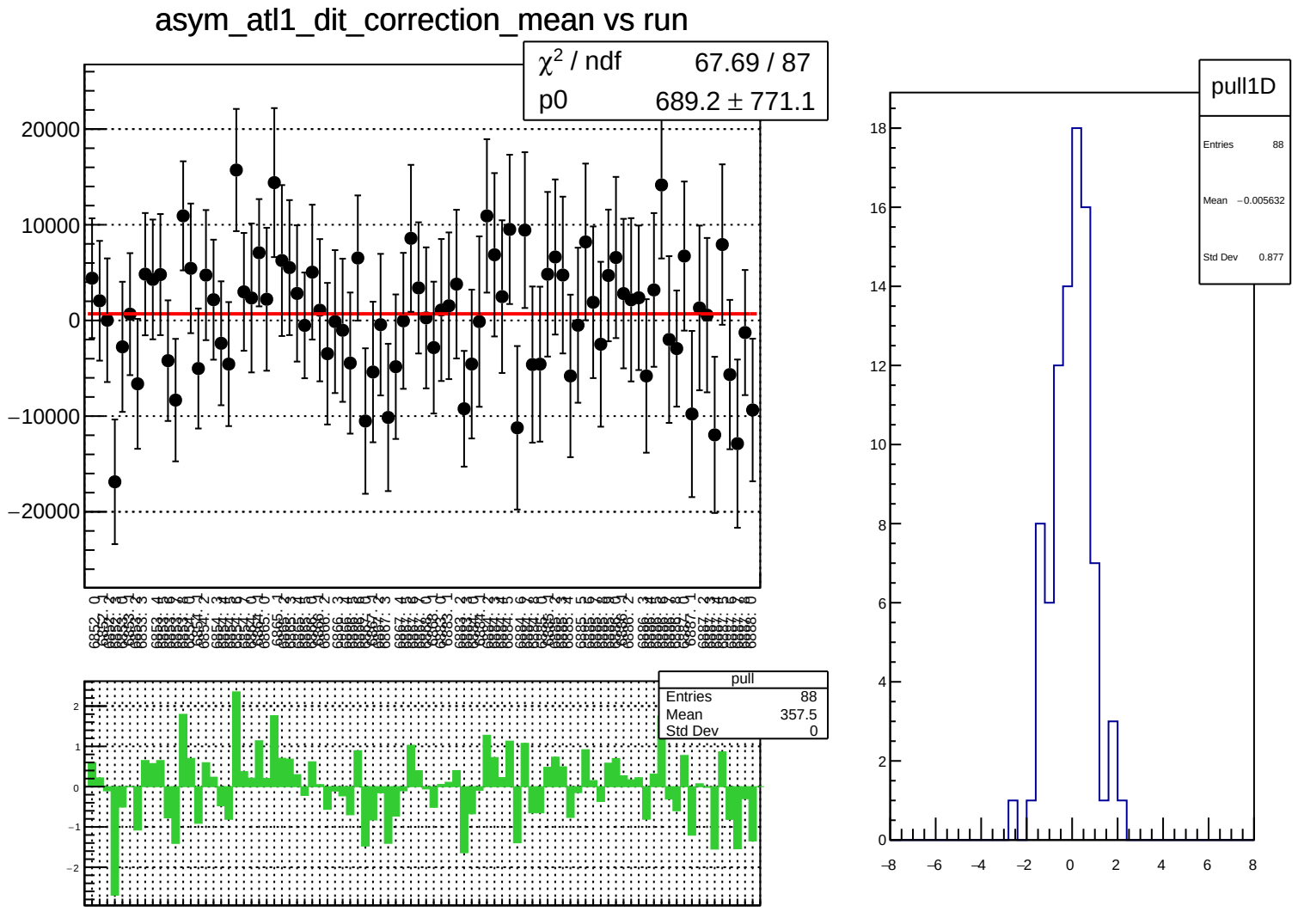

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 68.11 / 87
p0 779.7 ± 746.9
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 256
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007177
Std Dev 0.8798
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

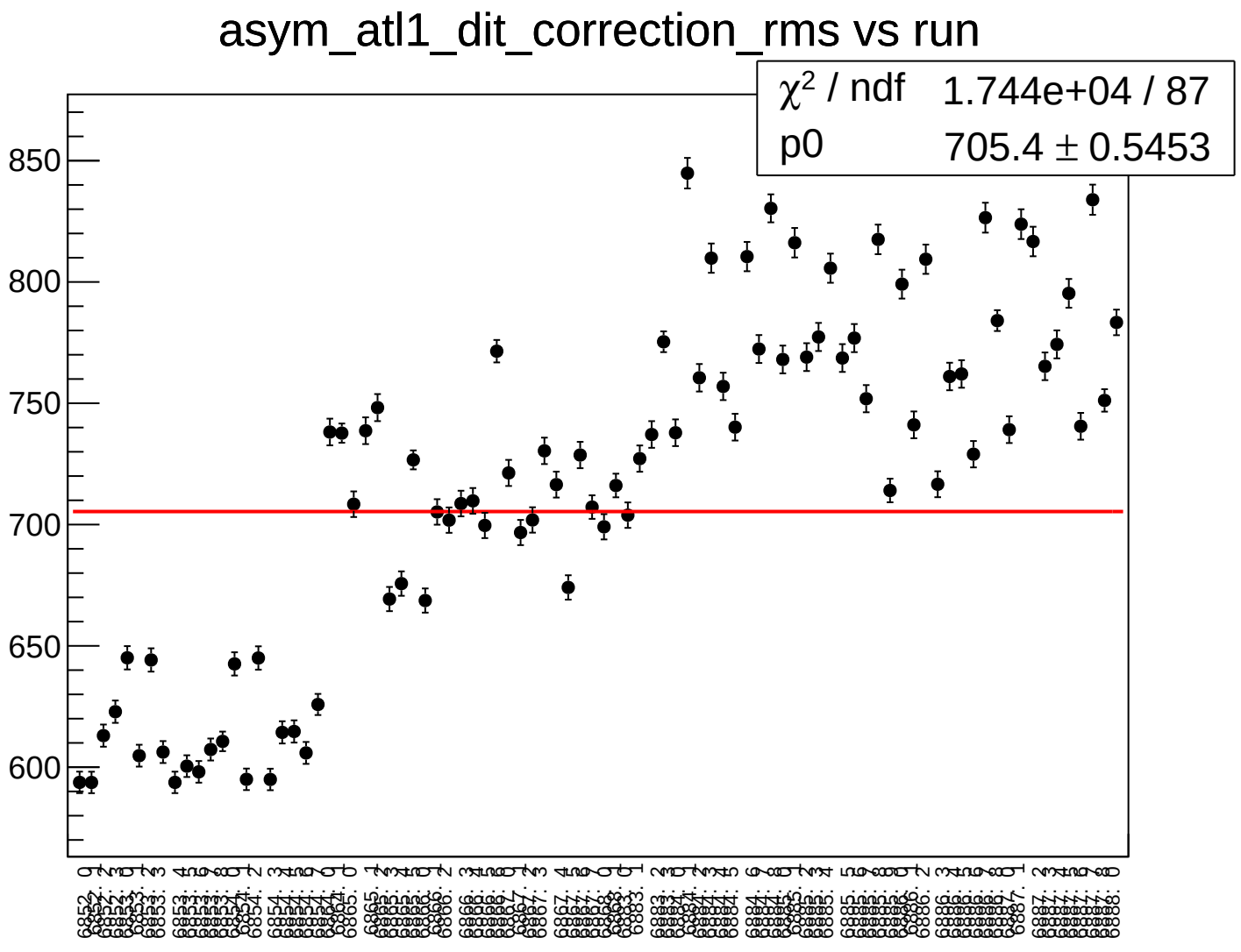

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.814e+04 / 87
p0 683.1 ± 0.5281
850
800
750
700
650
600
550

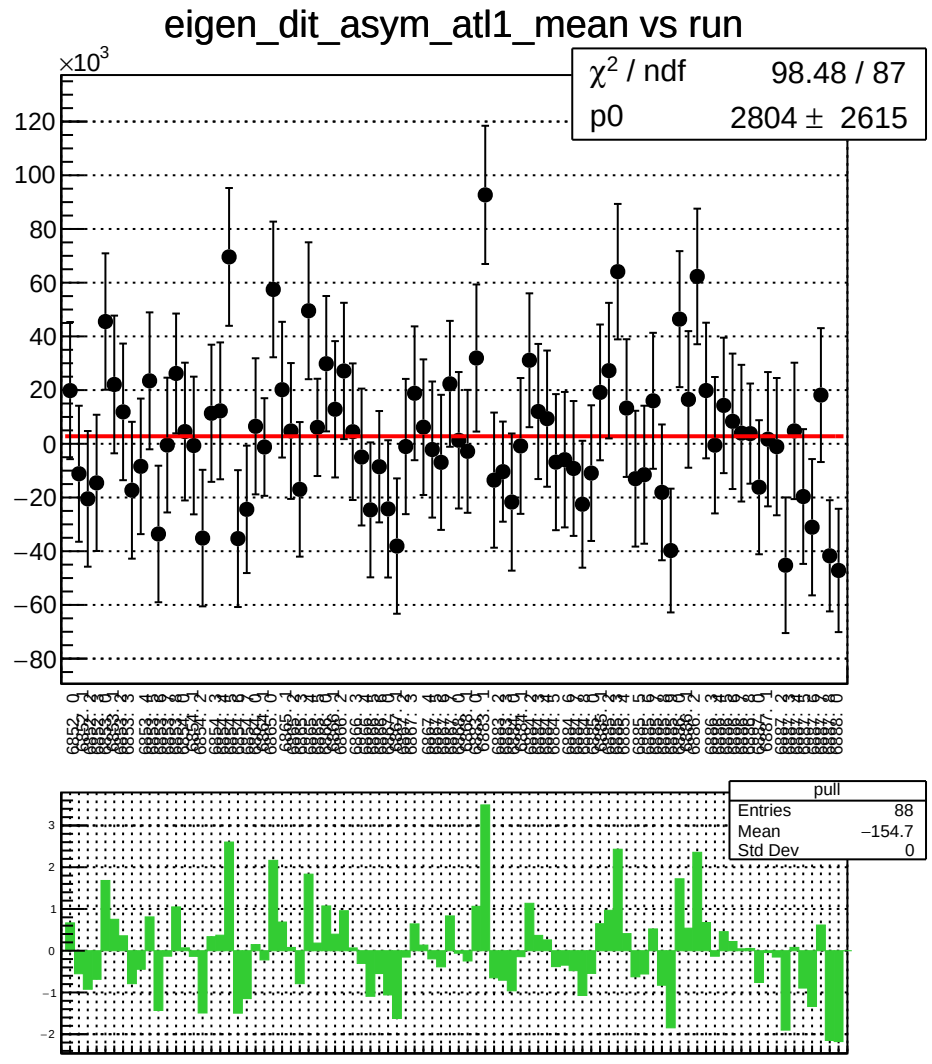

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 98.48 / 87
p0 2804 ± 2615
pull
Entries 88
Mean −154.7
Std Dev 0

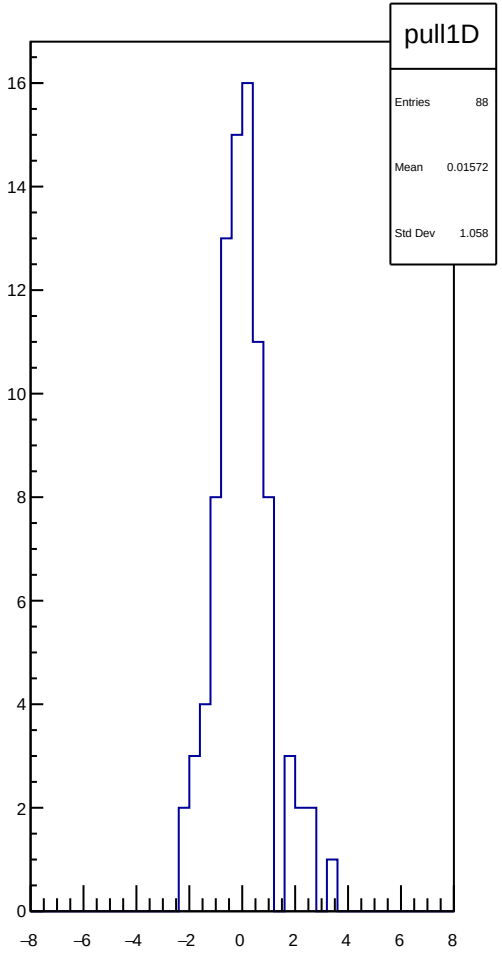

pull1D
Entries 88
Mean 0.01572
Std Dev 1.058

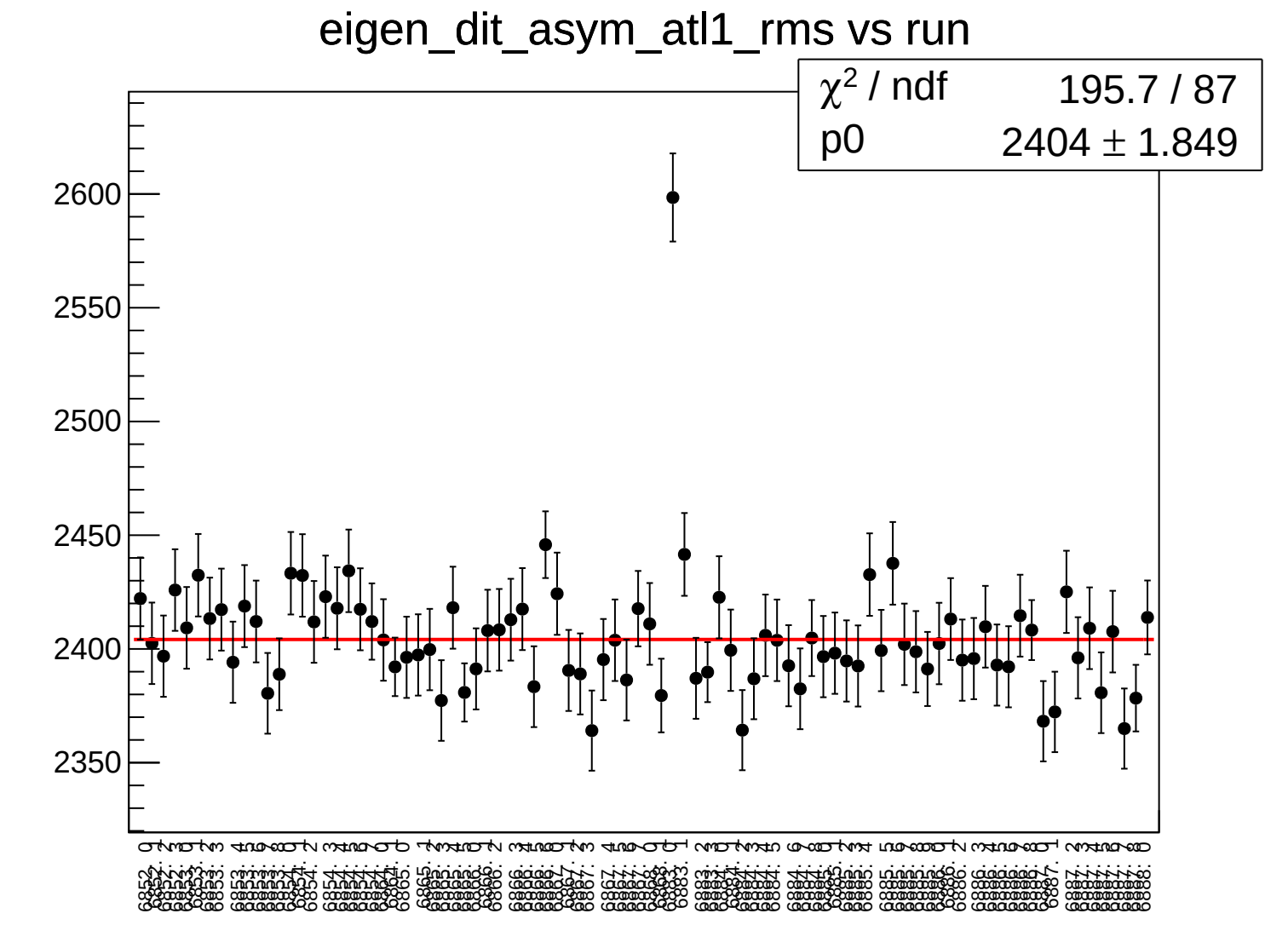

dit_asym_atl1_rms vs run
χ² / ndf 195.7 / 87
p0 2404 ± 1.849
2600
2550
2500
2450
2400
2350

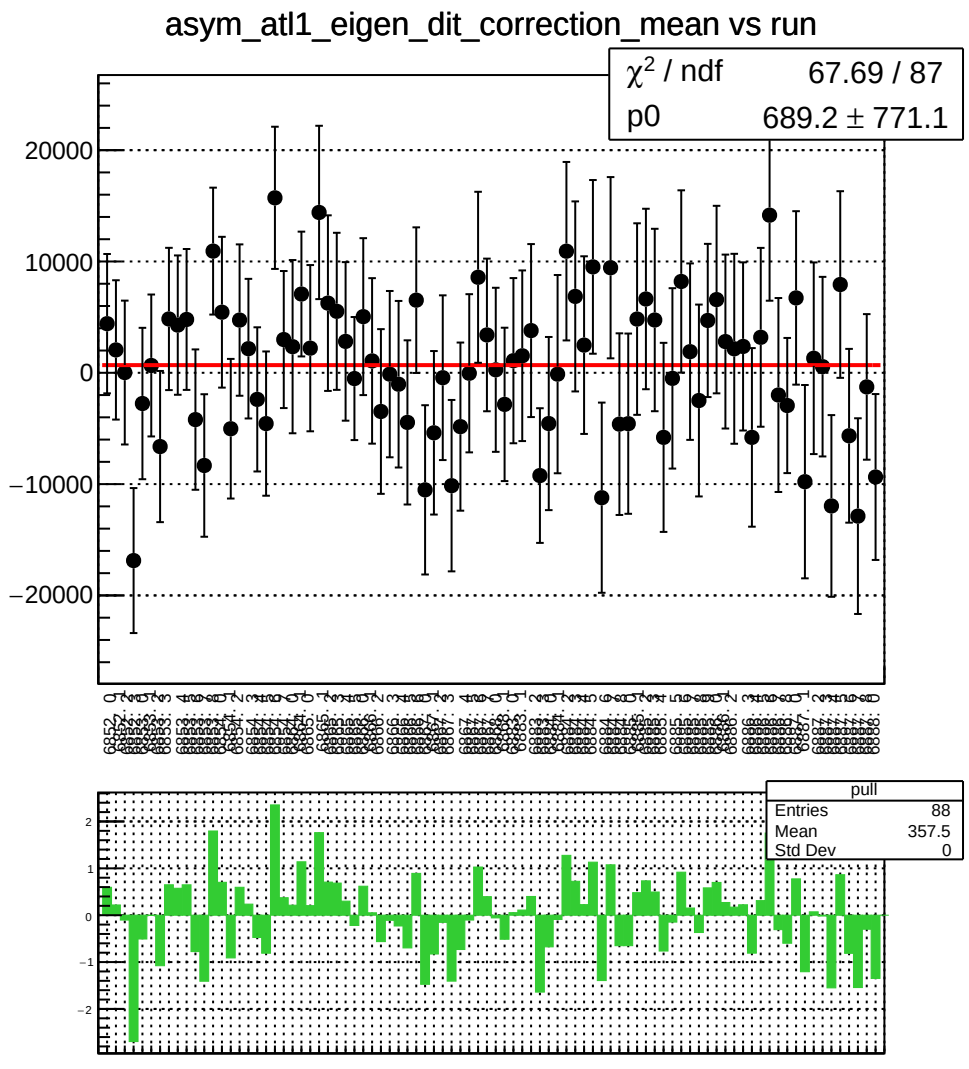

asym_atl1_dit_correction_mean vs run
χ² / ndf 67.69 / 87
p0 689.2 ± 771.1
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 357.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.005632
Std Dev 0.877
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

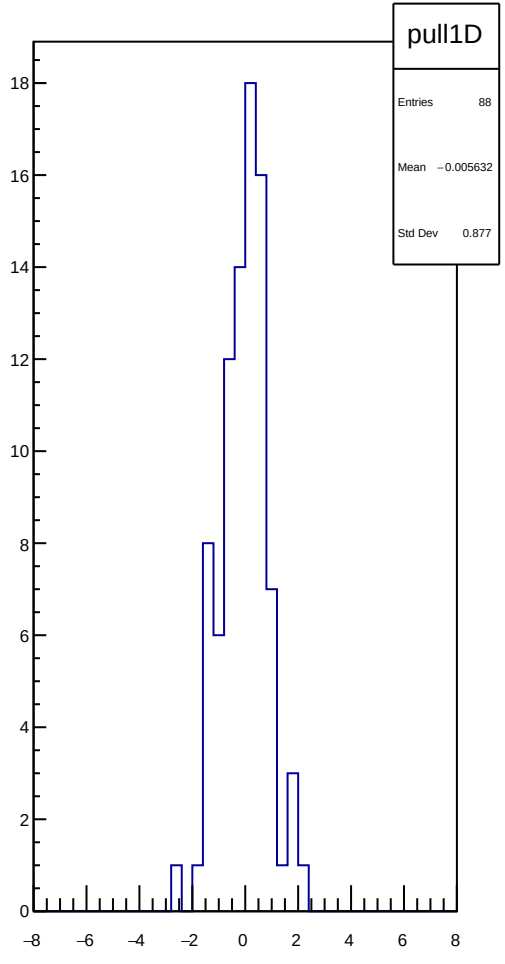

asym_atl1_dit_correction_rms vs run
χ² / ndf 1.744e+04 / 87
p0 705.4 ± 0.5453
850
800
750
700
650
600

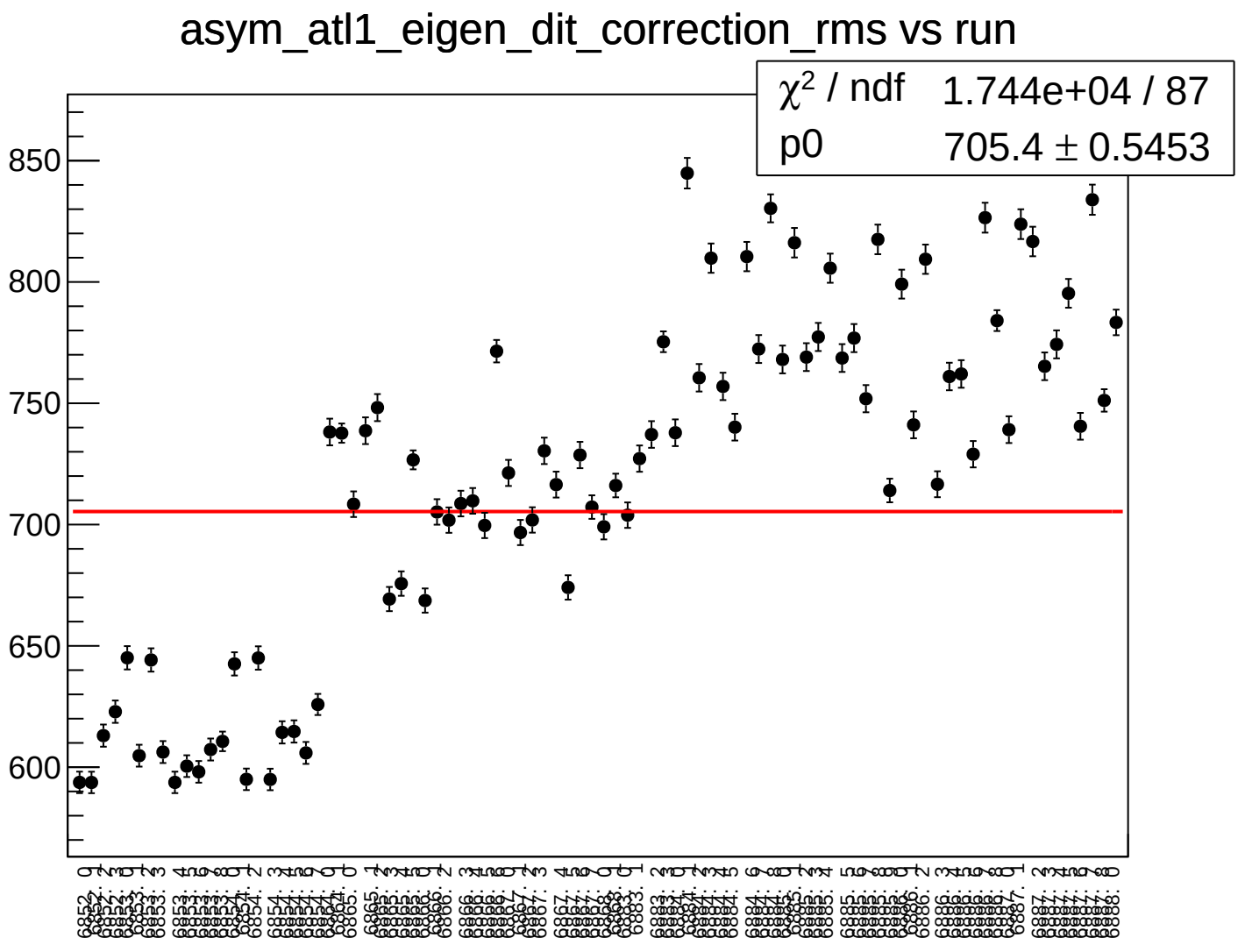

eigen_dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 98.48 / 87
p0 2804 ± 2615
120
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 88
Mean −154.7
Std Dev 0
3
2
1
0
−1
−2

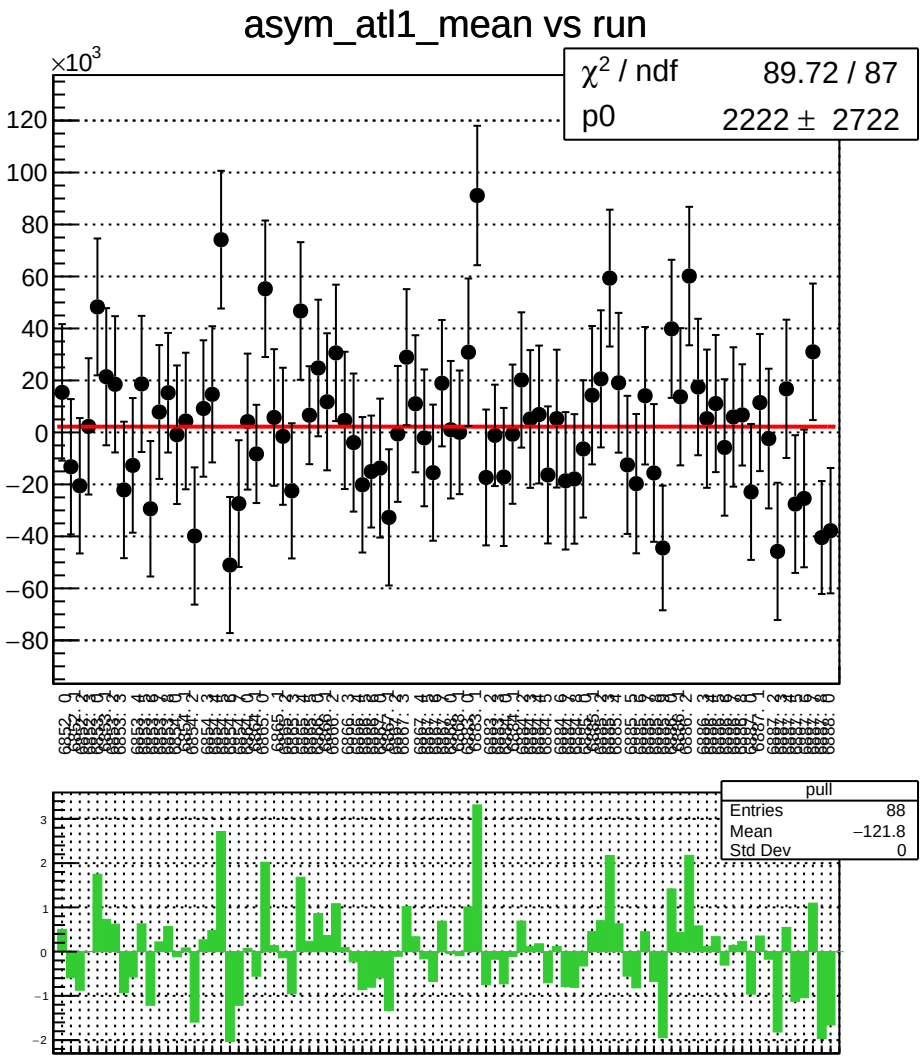

pull1D
Entries 88
Mean 0.01572
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

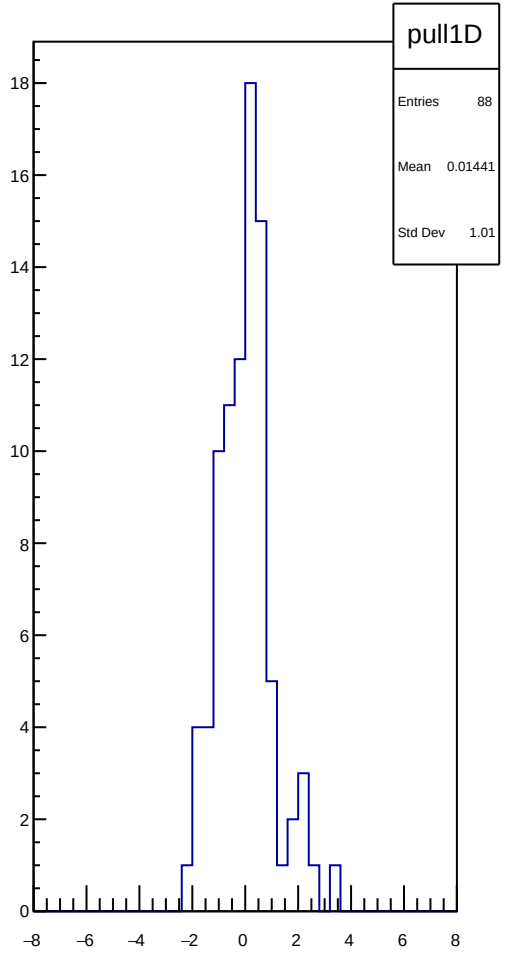

eigen_dit_asym_atl1_rms vs run
χ² / ndf 195.7 / 87
p0 2404 ± 1.849
2600
2550
2500
2450
2400
2350


asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 67.69 / 87
p0 689.2 ± 771.1
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 357.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.005632
Std Dev 0.877
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.744e+04 / 87
p0 705.4 ± 0.5453
850
800
750
700
650
600


asym_atl1_mean vs run
×10^3
χ^2 / ndf 89.72 / 87
p0 2222 ± 2722
120
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 88
Mean −121.8
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.01441
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
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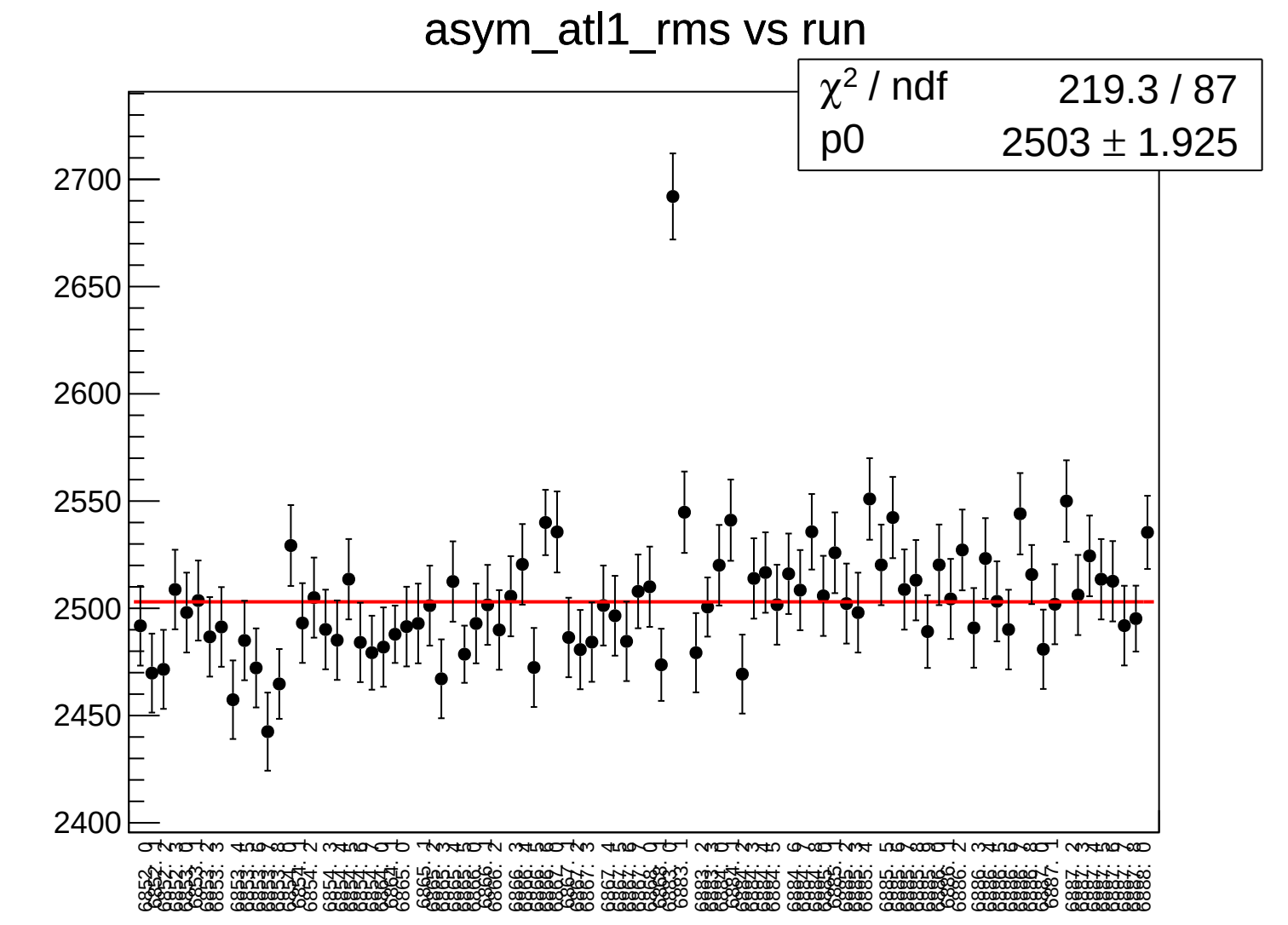
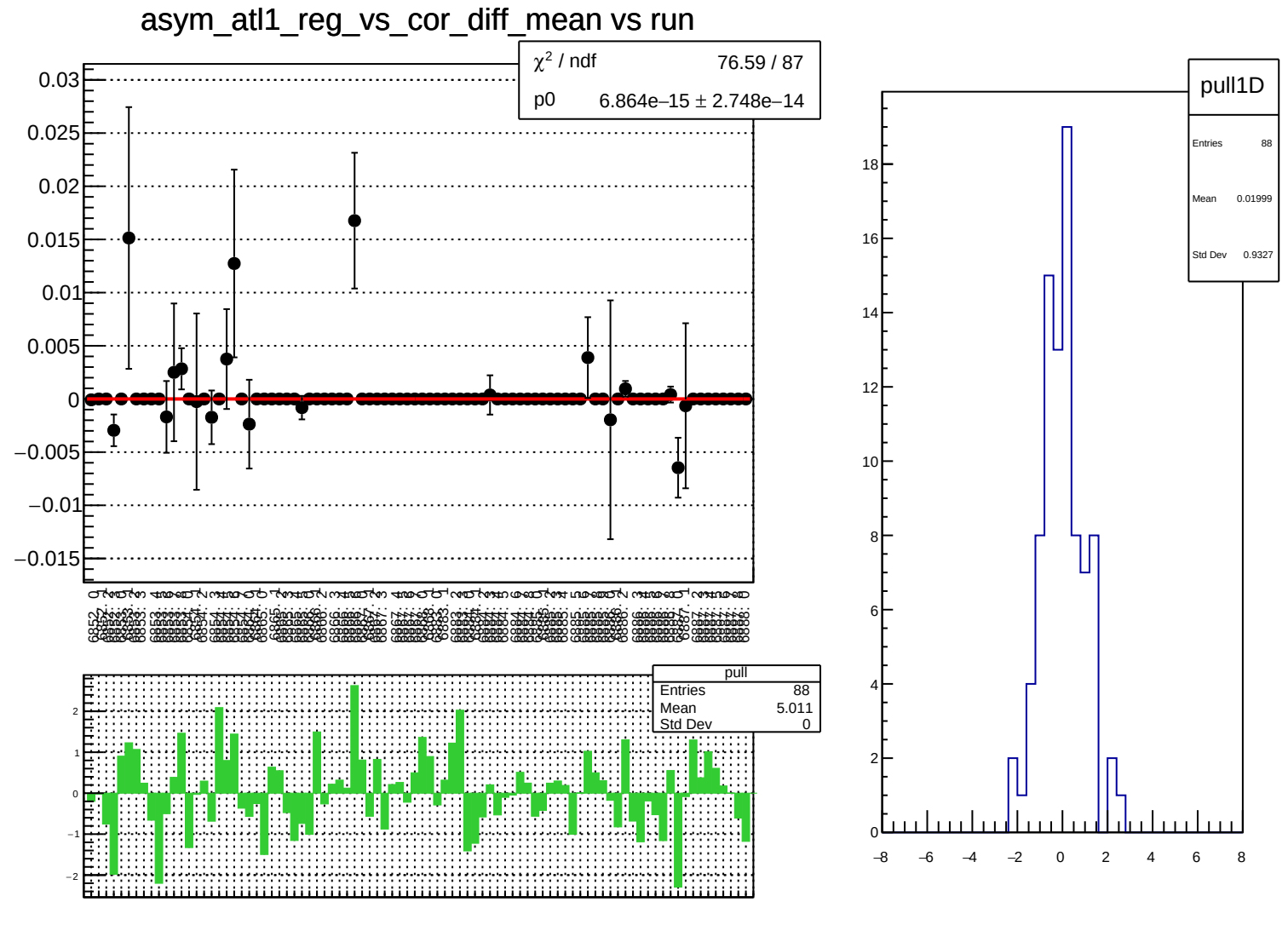
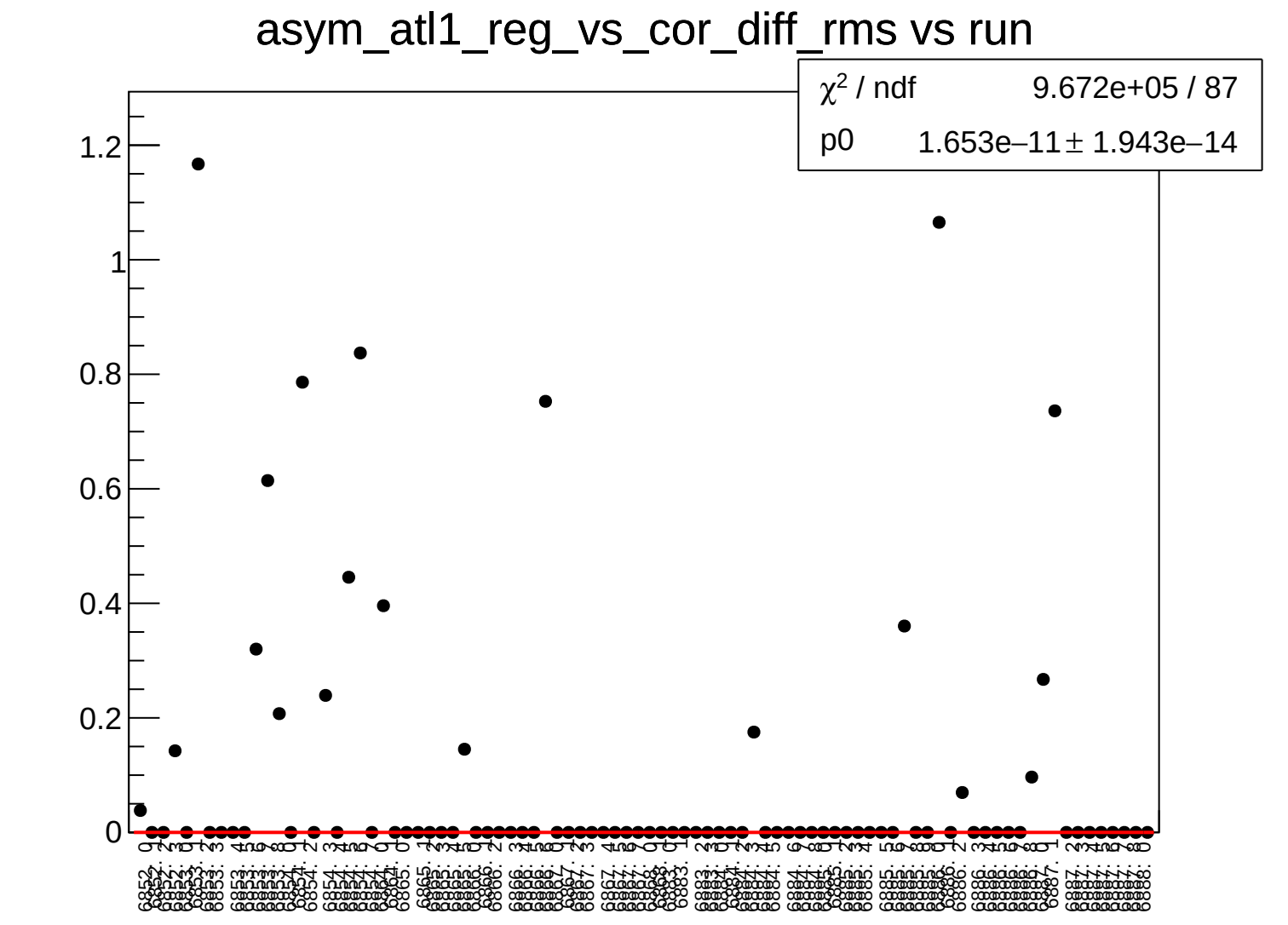
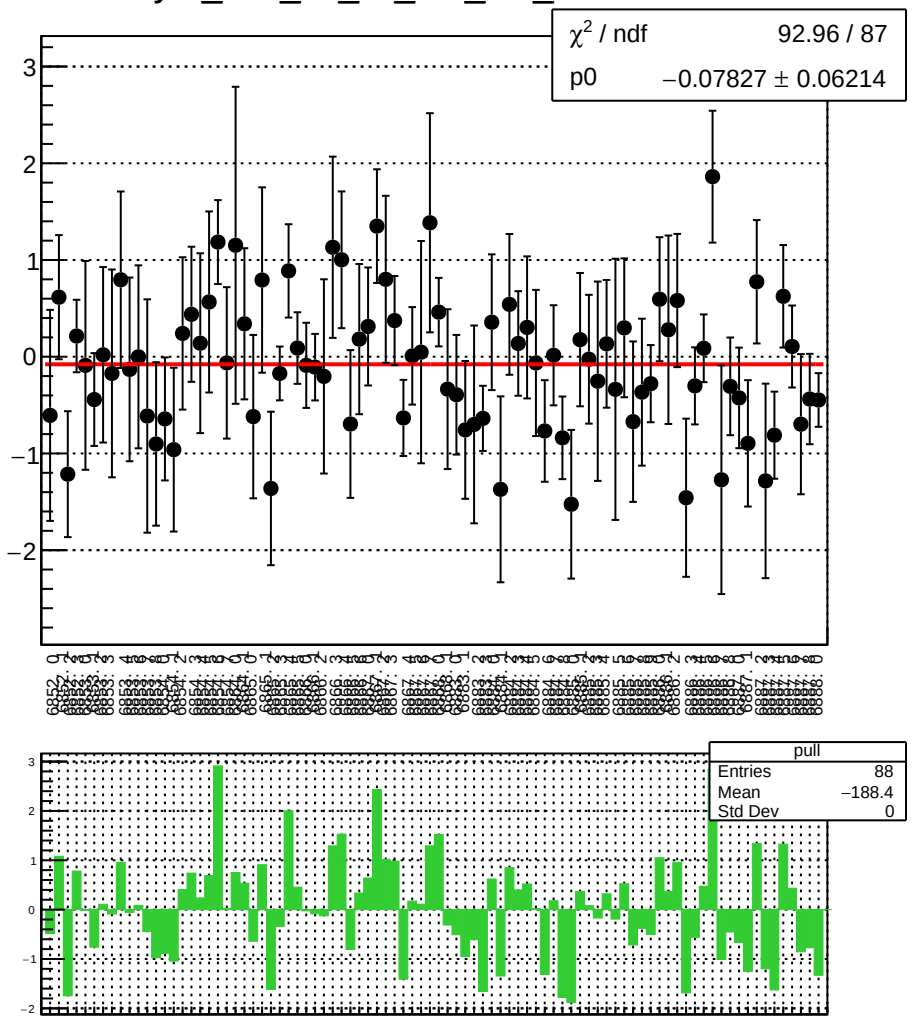
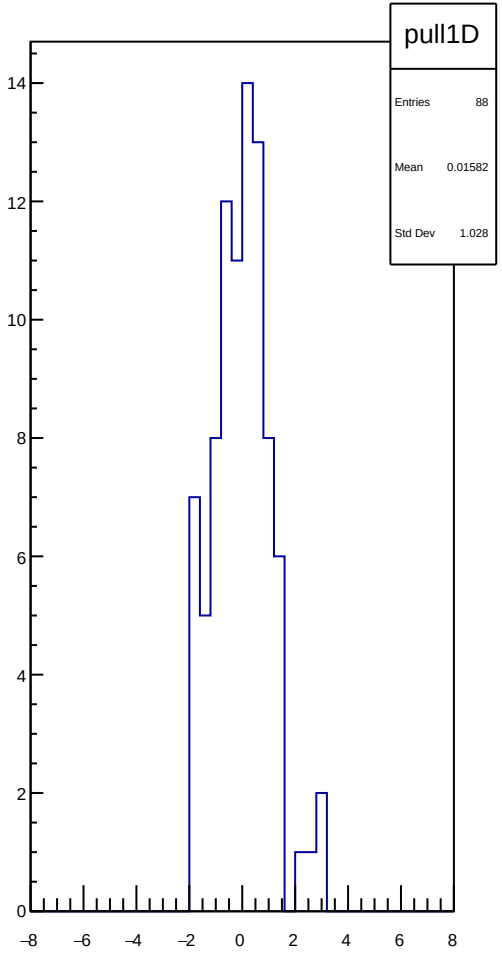
2
4
6
8

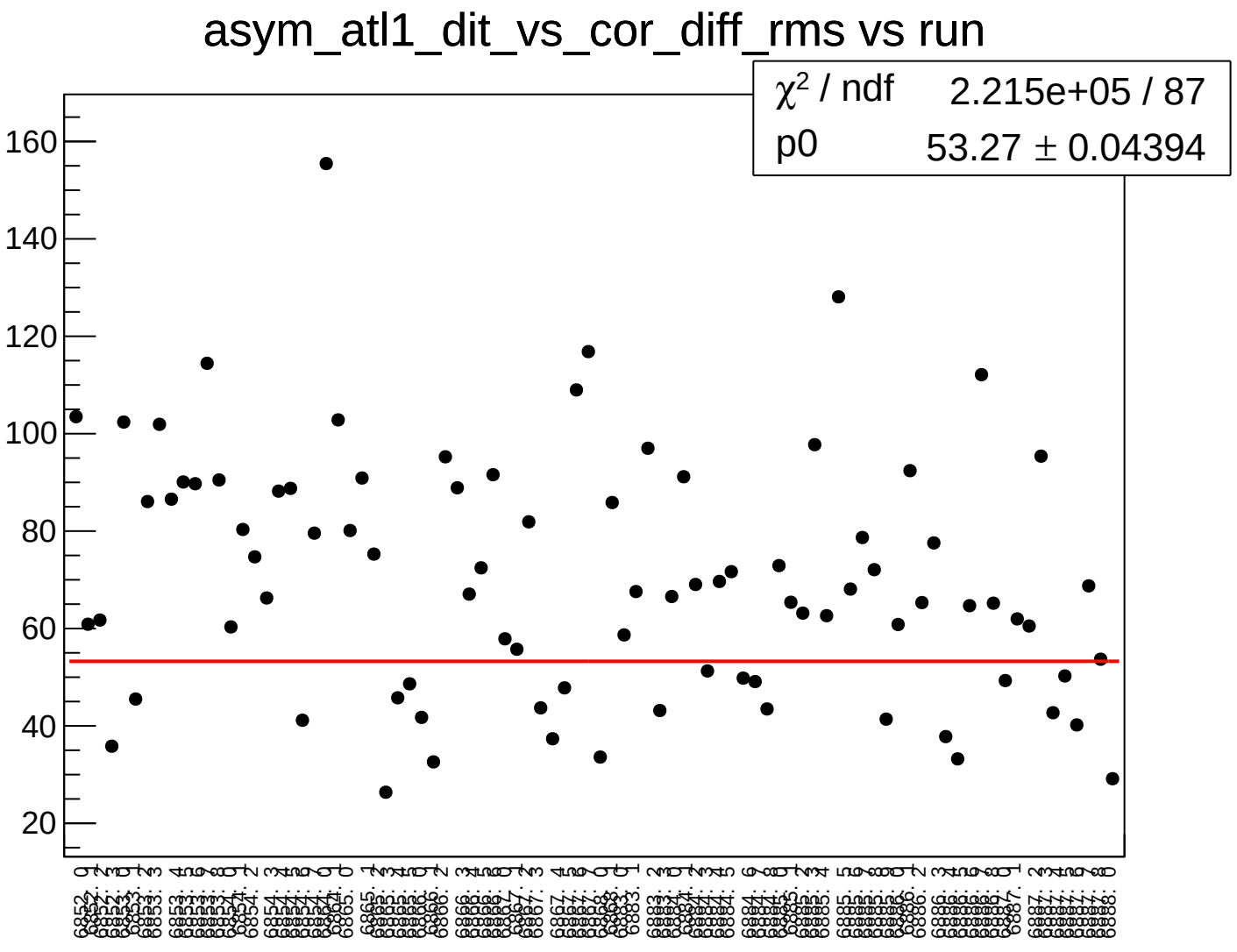

asym_atl1_rms vs run
χ^2 / ndf 219.3 / 87
p0 2503 ± 1.925
2700
2650
2600
2550
2500
2450
2400

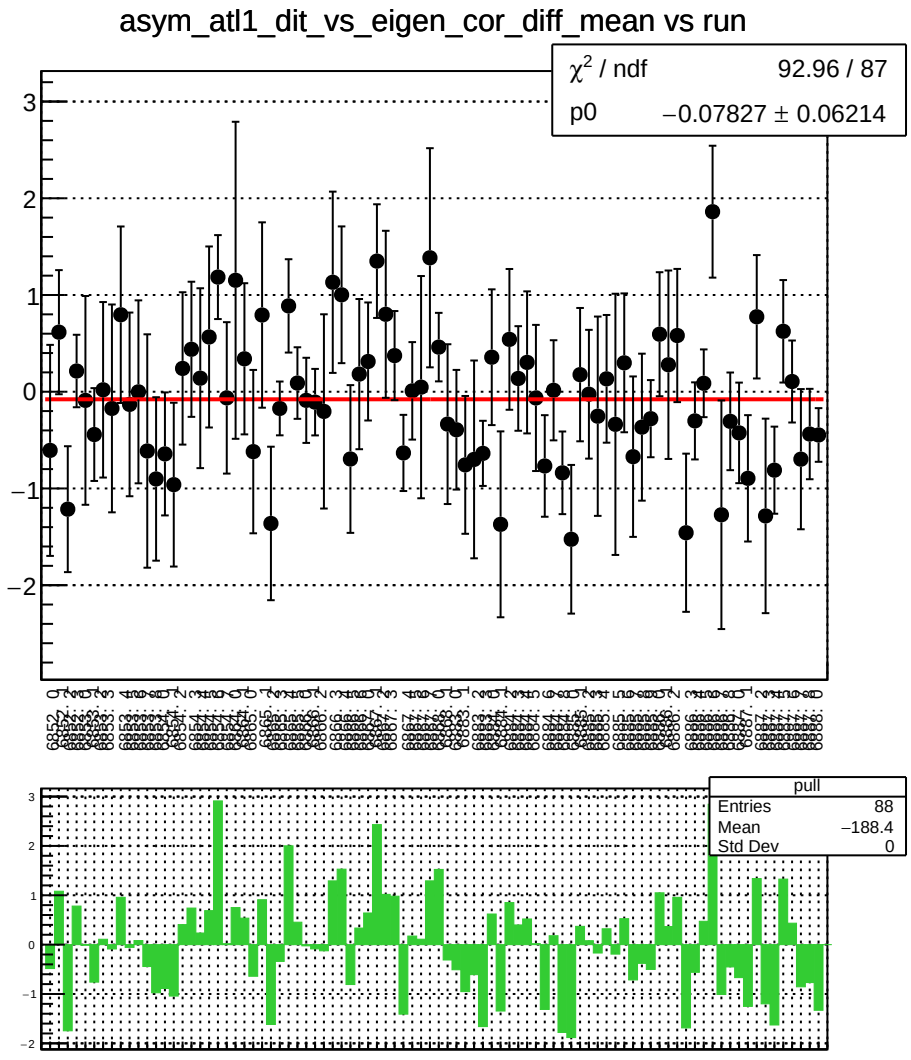

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 76.59 / 87
p0 6.864e−15 ± 2.748e−14
pull
Entries 88
Mean 5.011
Std Dev 0
pull1D
Entries 88
Mean 0.01999
Std Dev 0.9327

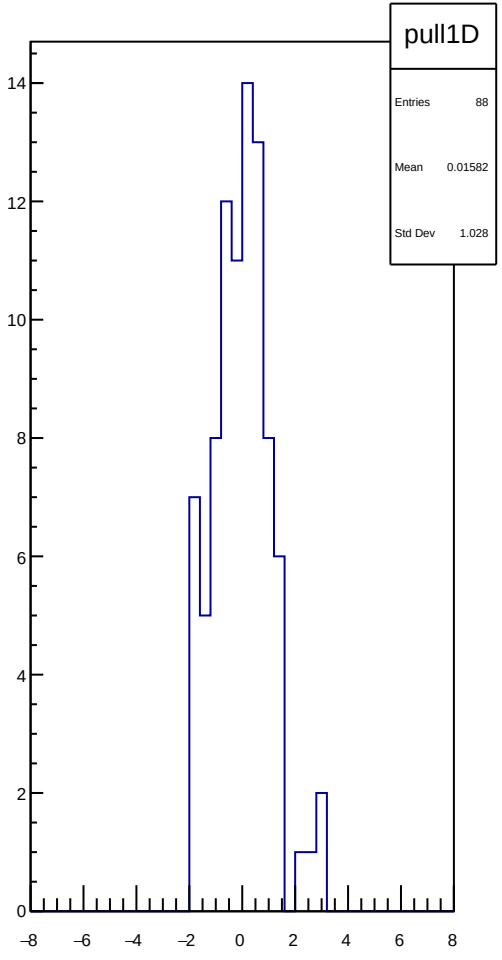

asym_atl1_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.672e+05 / 87
p0 1.653e−11 ± 1.943e−14
1.2
1
0.8
0.6
0.4
0.2
0

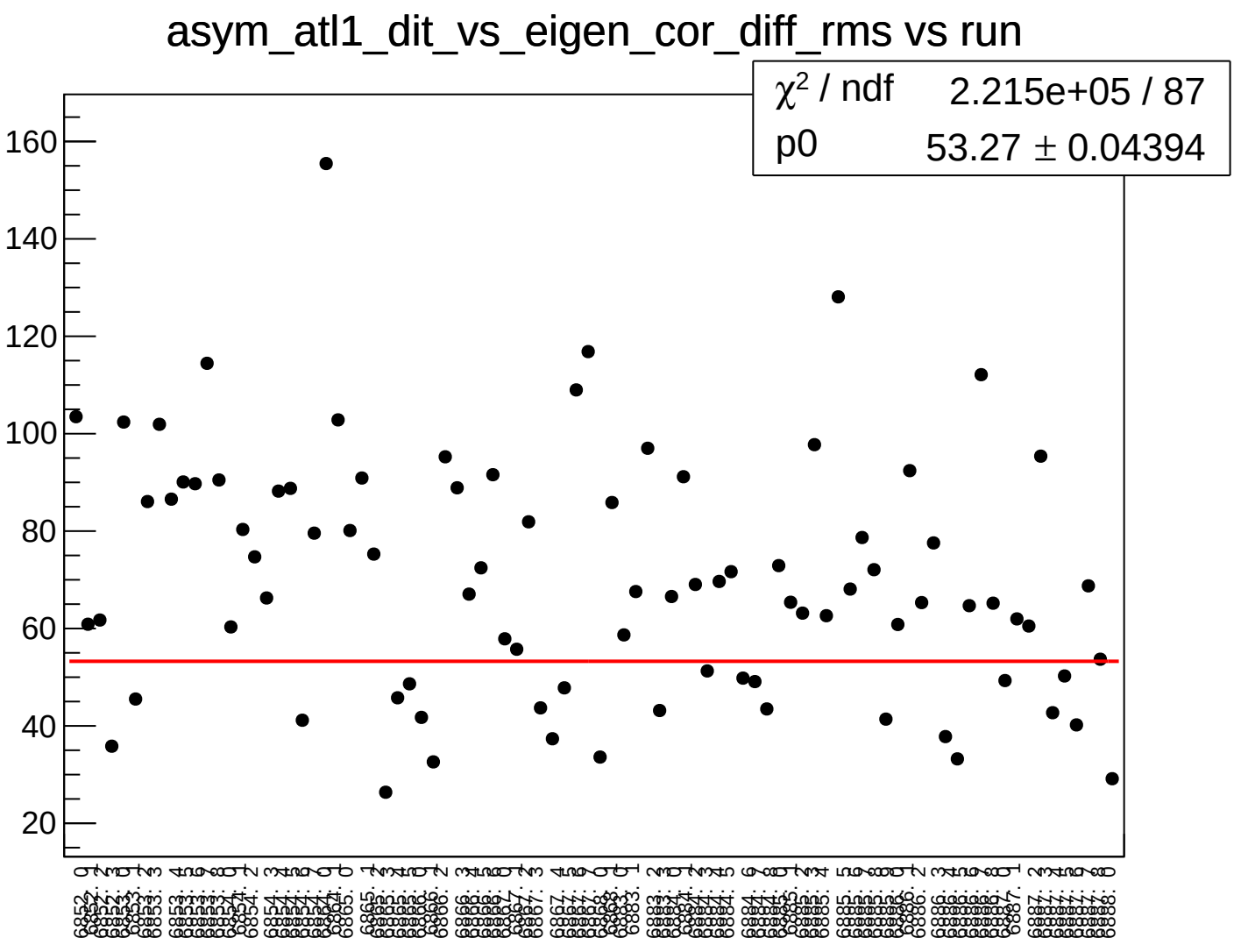

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 92.96 / 87
p0 −0.07827 ± 0.06214
pull
Entries 88
Mean −188.4
Std Dev 0

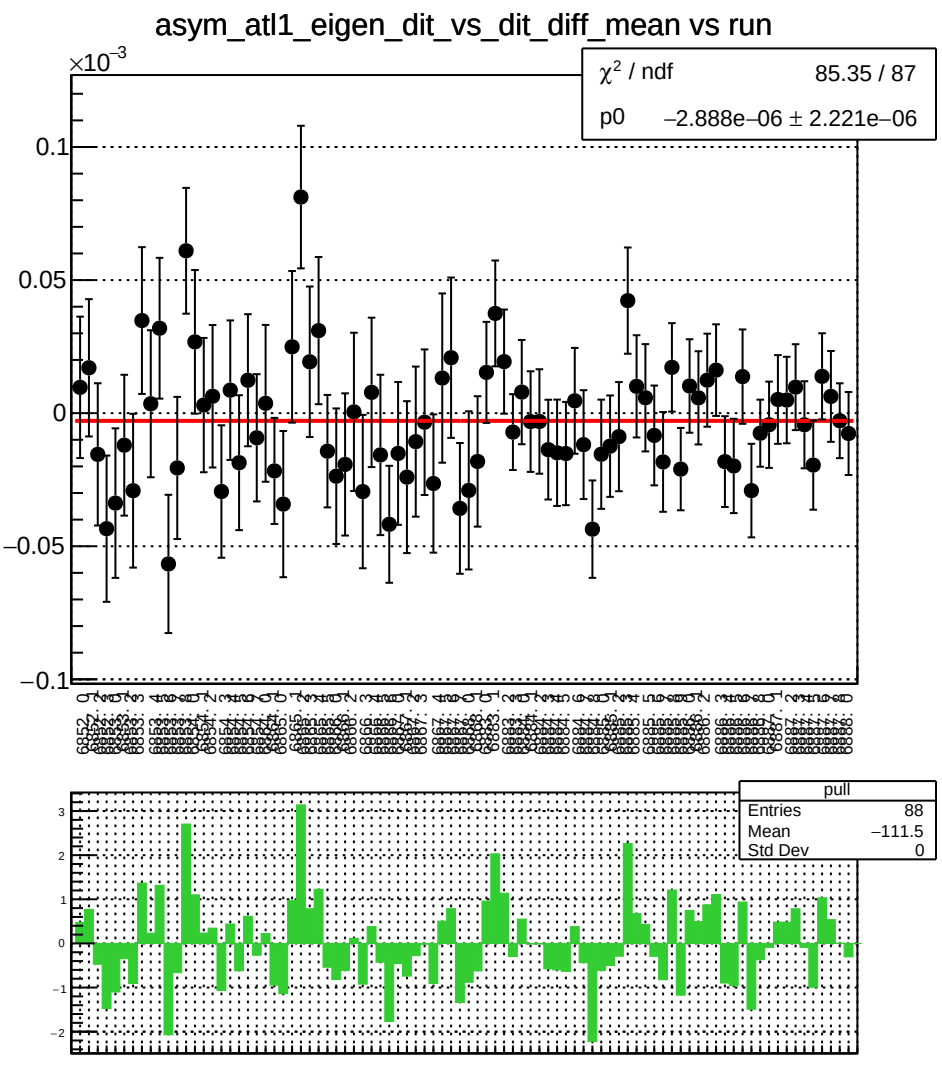

pull1D
Entries 88
Mean 0.01582
Std Dev 1.028

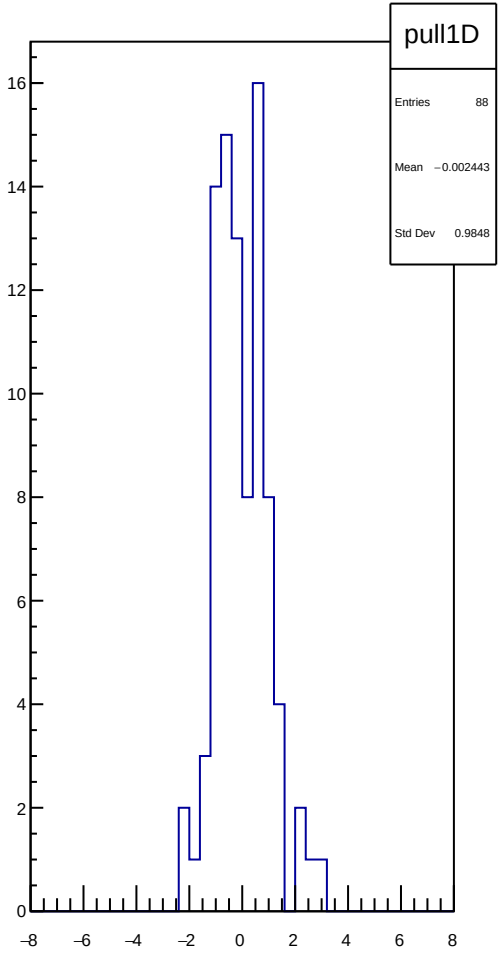

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.215e+05 / 87
p0 53.27 ± 0.04394
160
140
120
100
80
60
40
20

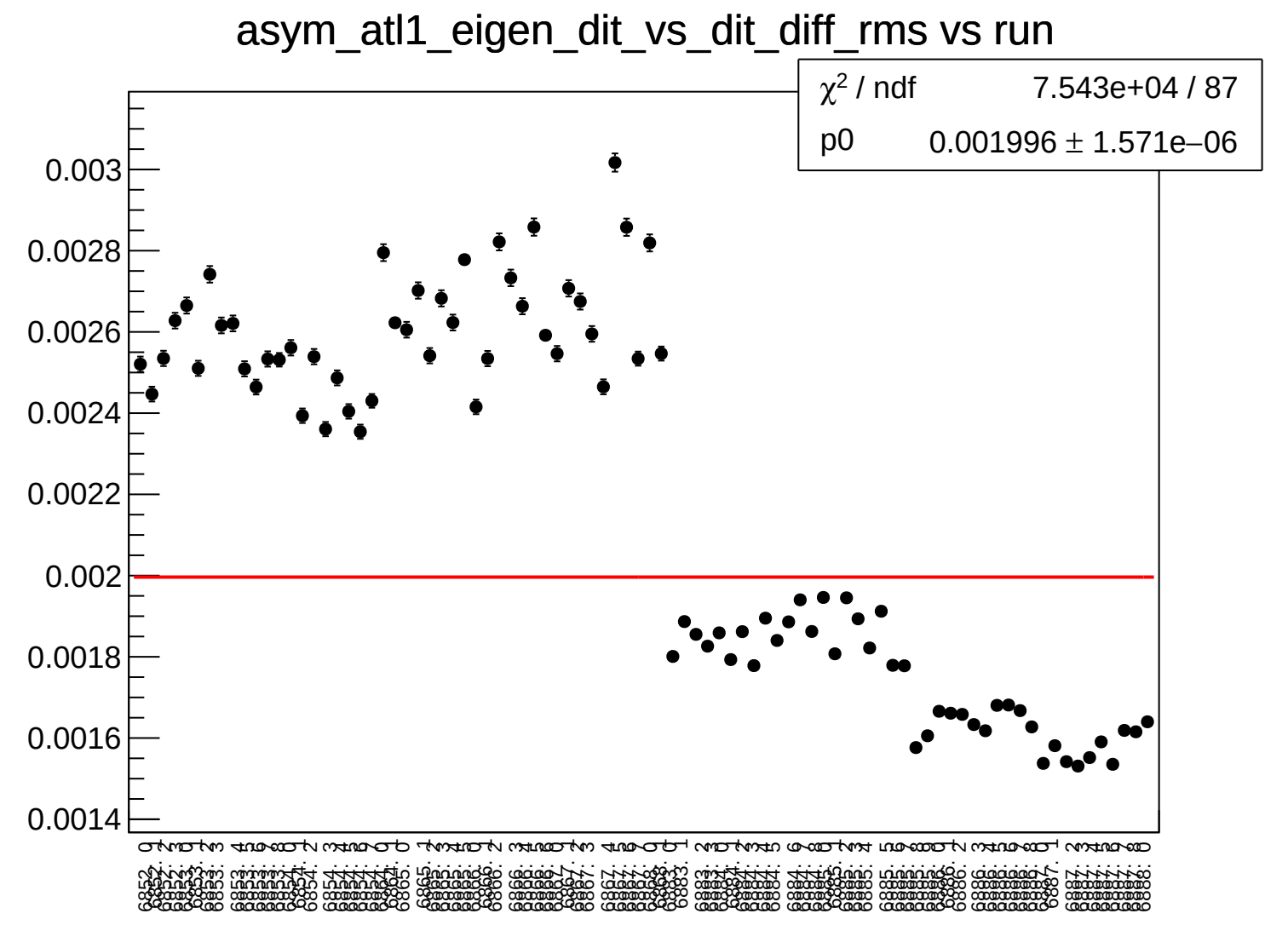

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.96 / 87
p0 −0.07827 ± 0.06214
pull
Entries 88
Mean −188.4
Std Dev 0

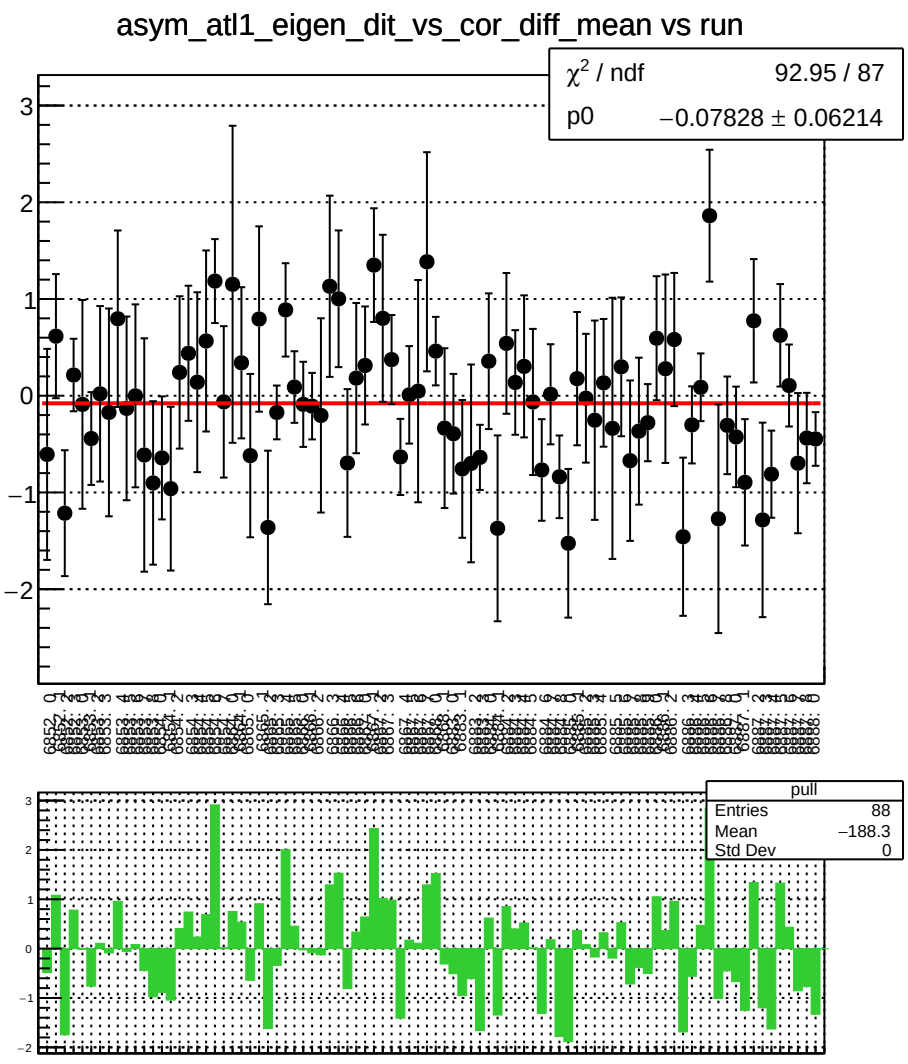

pull1D
Entries 88
Mean 0.01582
Std Dev 1.028

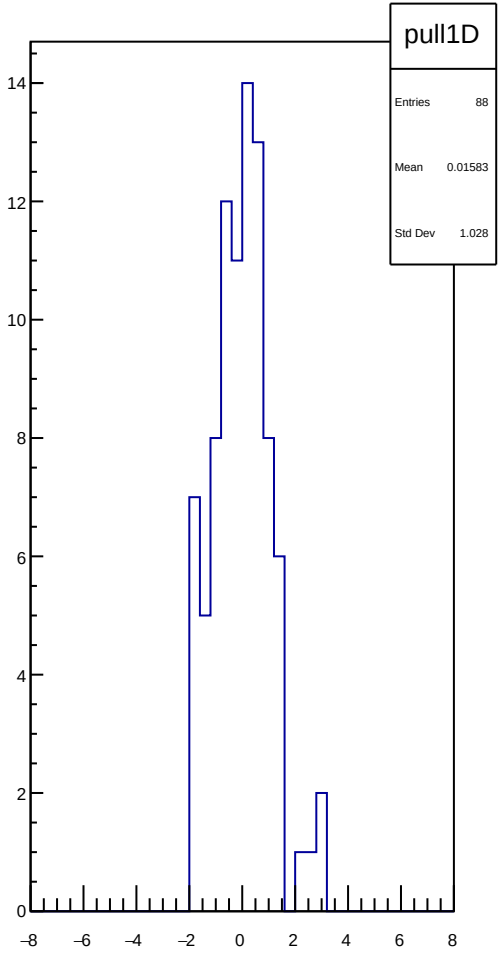

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.215e+05 / 87
p0 53.27 ± 0.04394
160
140
120
100
80
60
40
20

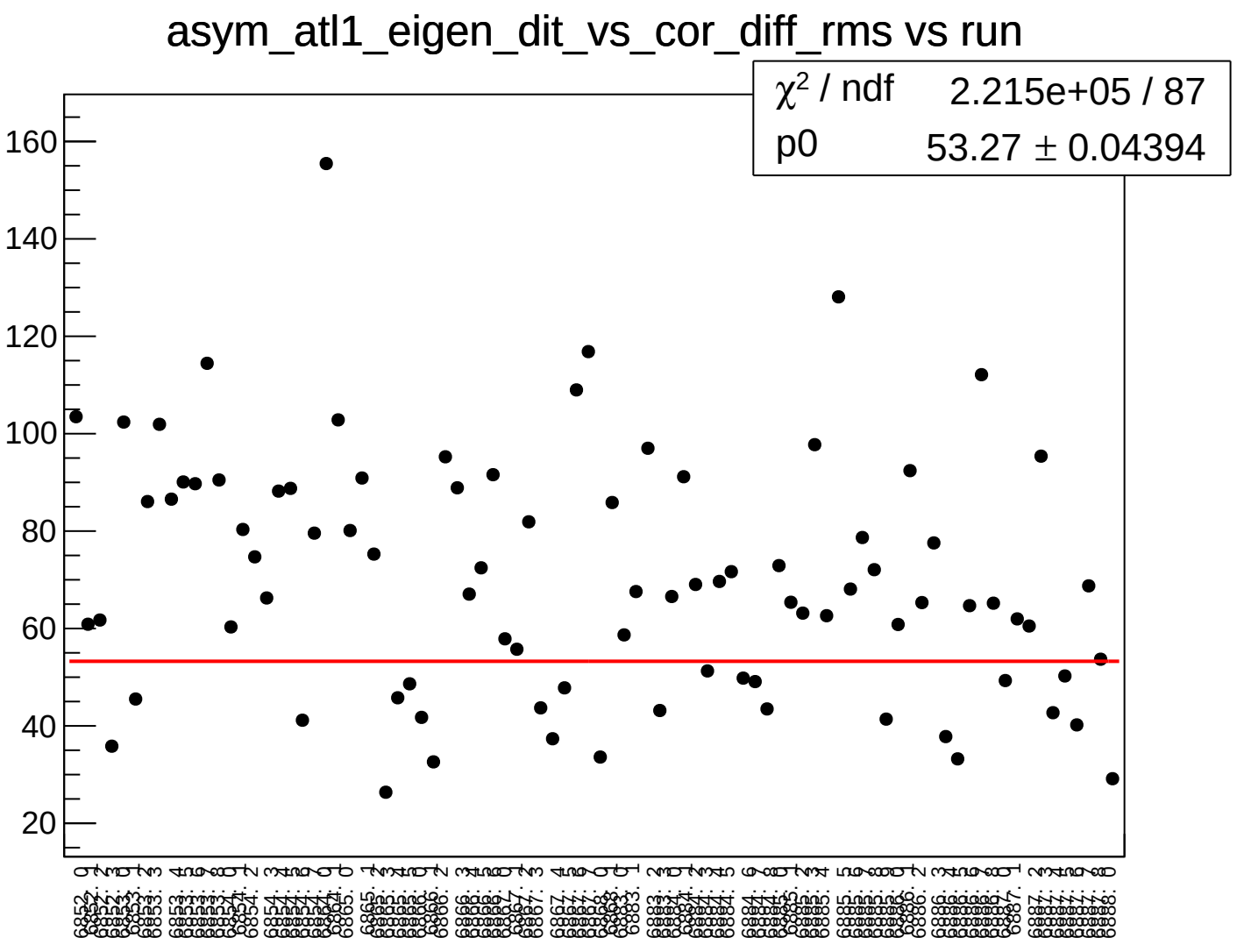

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.35 / 87
p0 −2.888e−06 ± 2.221e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −111.5
Std Dev 0
3
2
1
0
−1
−2

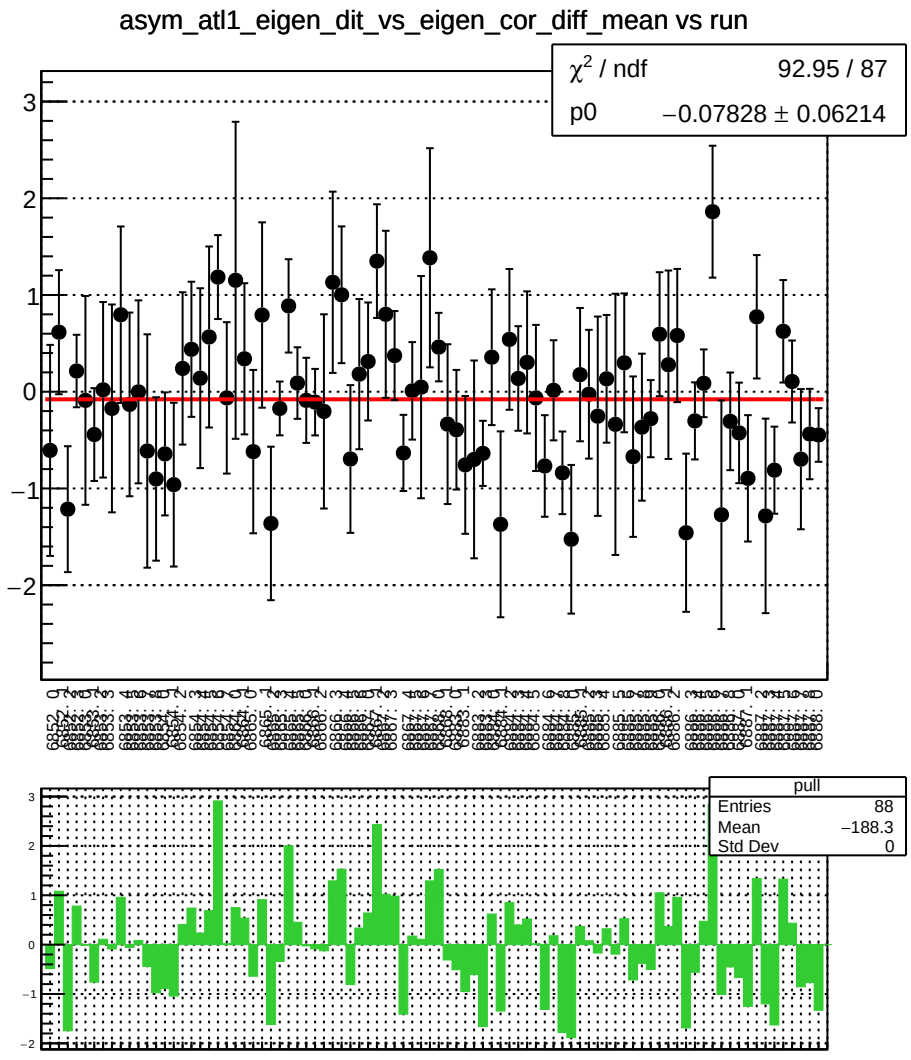

pull1D
Entries 88
Mean −0.002443
Std Dev 0.9848
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

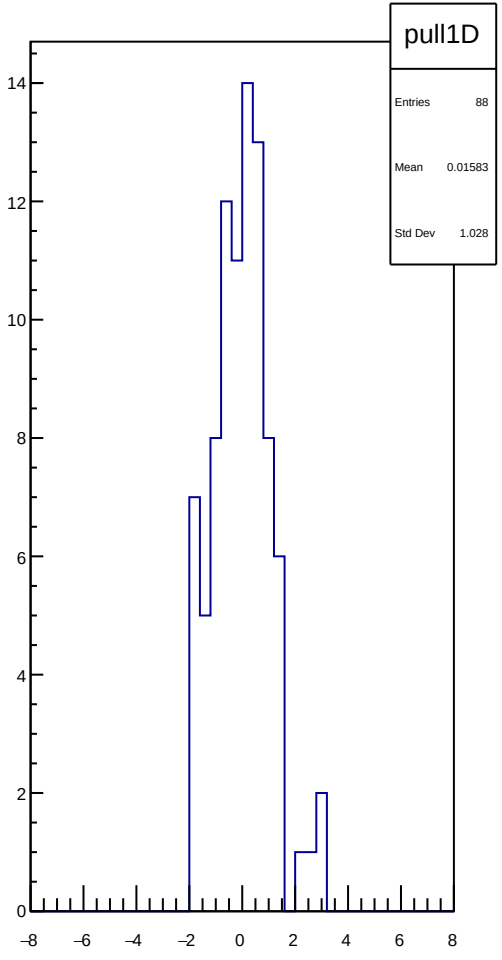

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.543e+04 / 87
p0 0.001996 ± 1.571e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

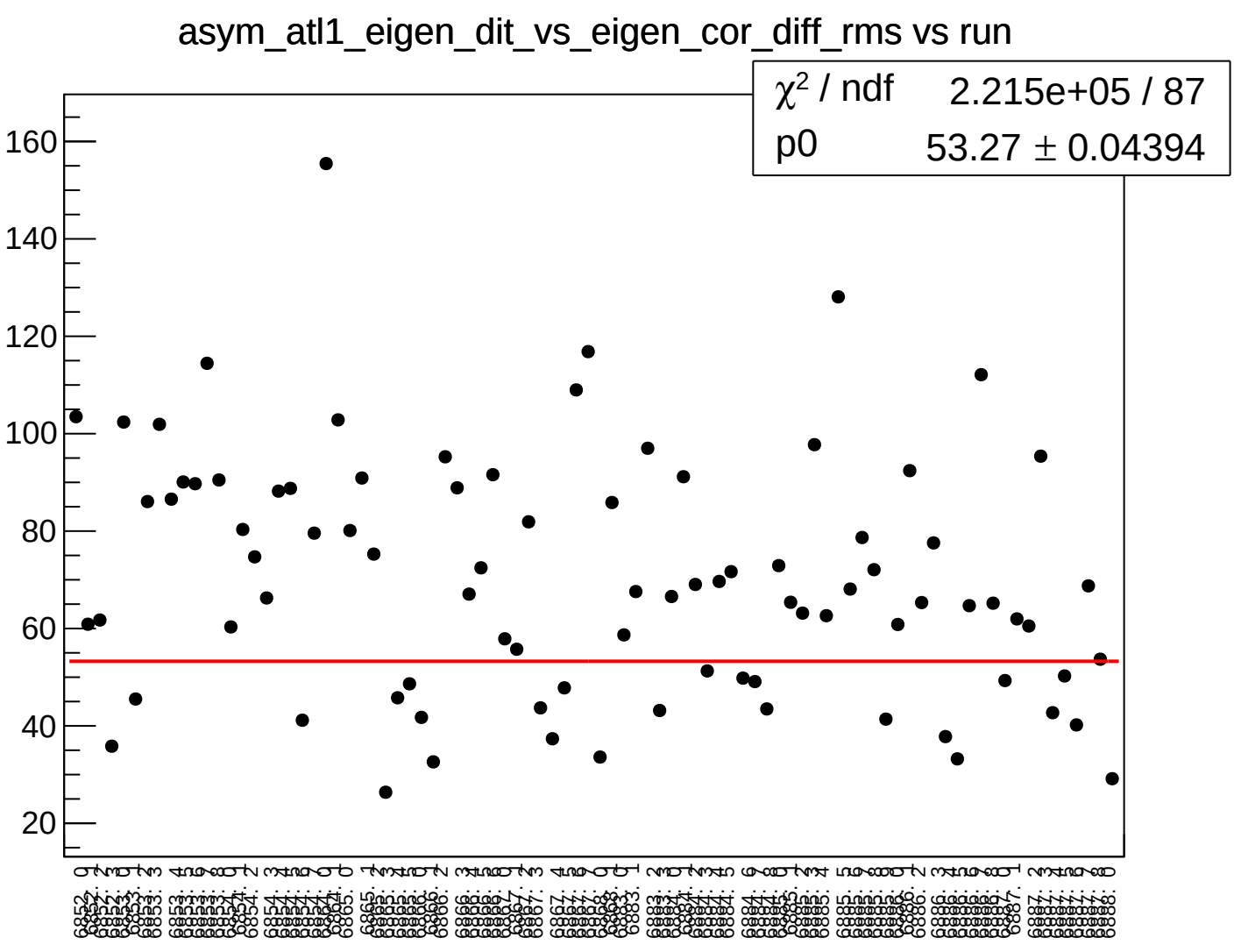

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.95 / 87
p0 −0.07828 ± 0.06214
pull
Entries 88
Mean −188.3
Std Dev 0

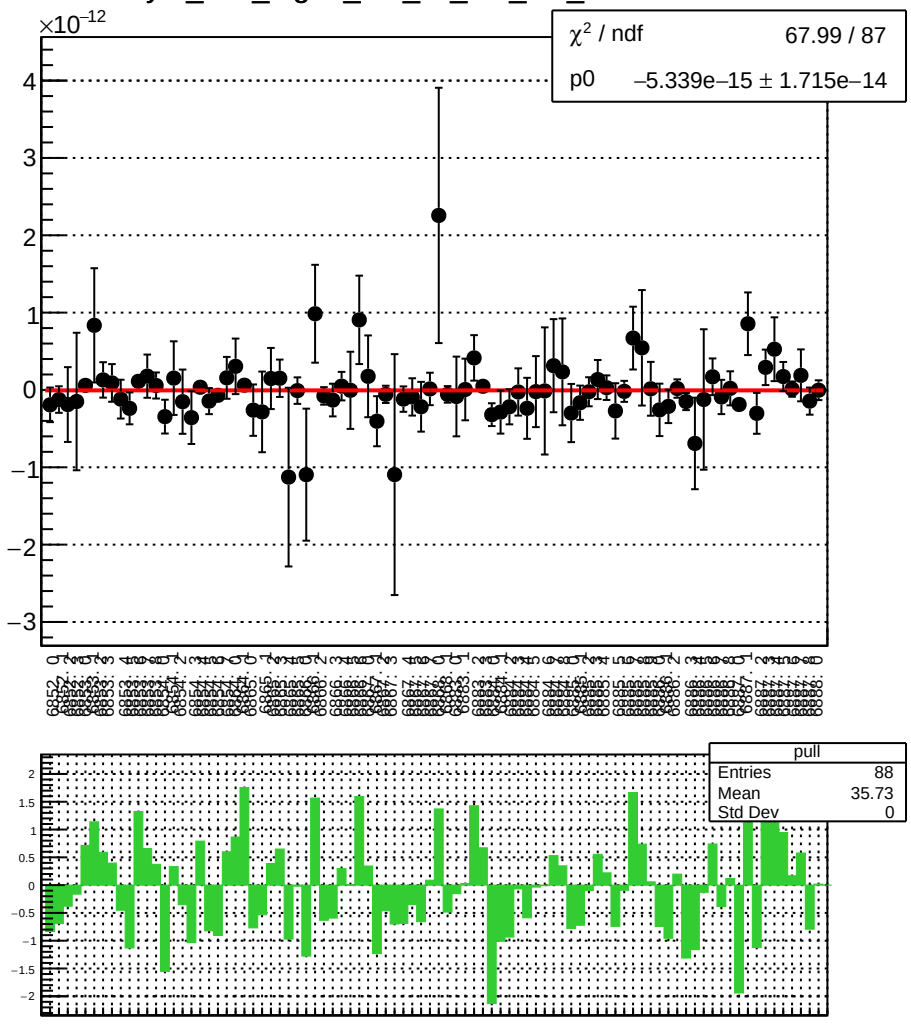

pull1D
Entries 88
Mean 0.01583
Std Dev 1.028

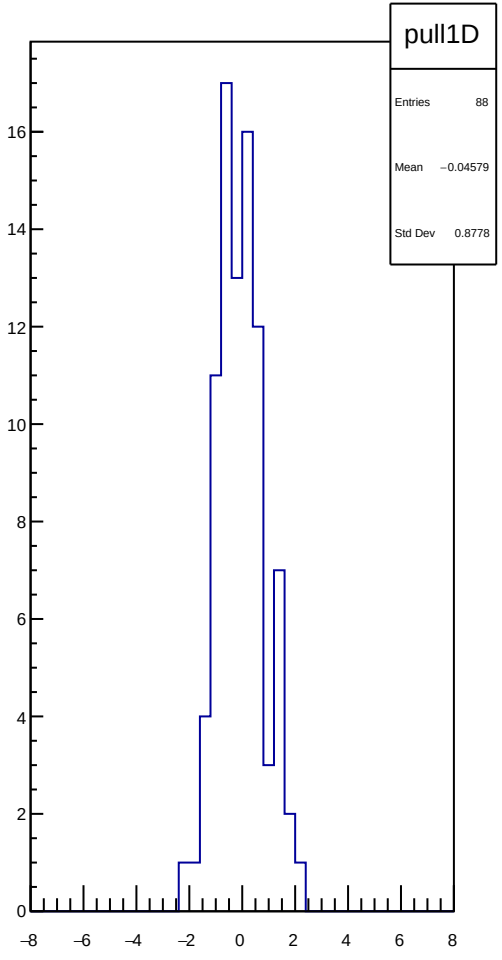

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.215e+05 / 87
p0 53.27 ± 0.04394
160
140
120
100
80
60
40
20

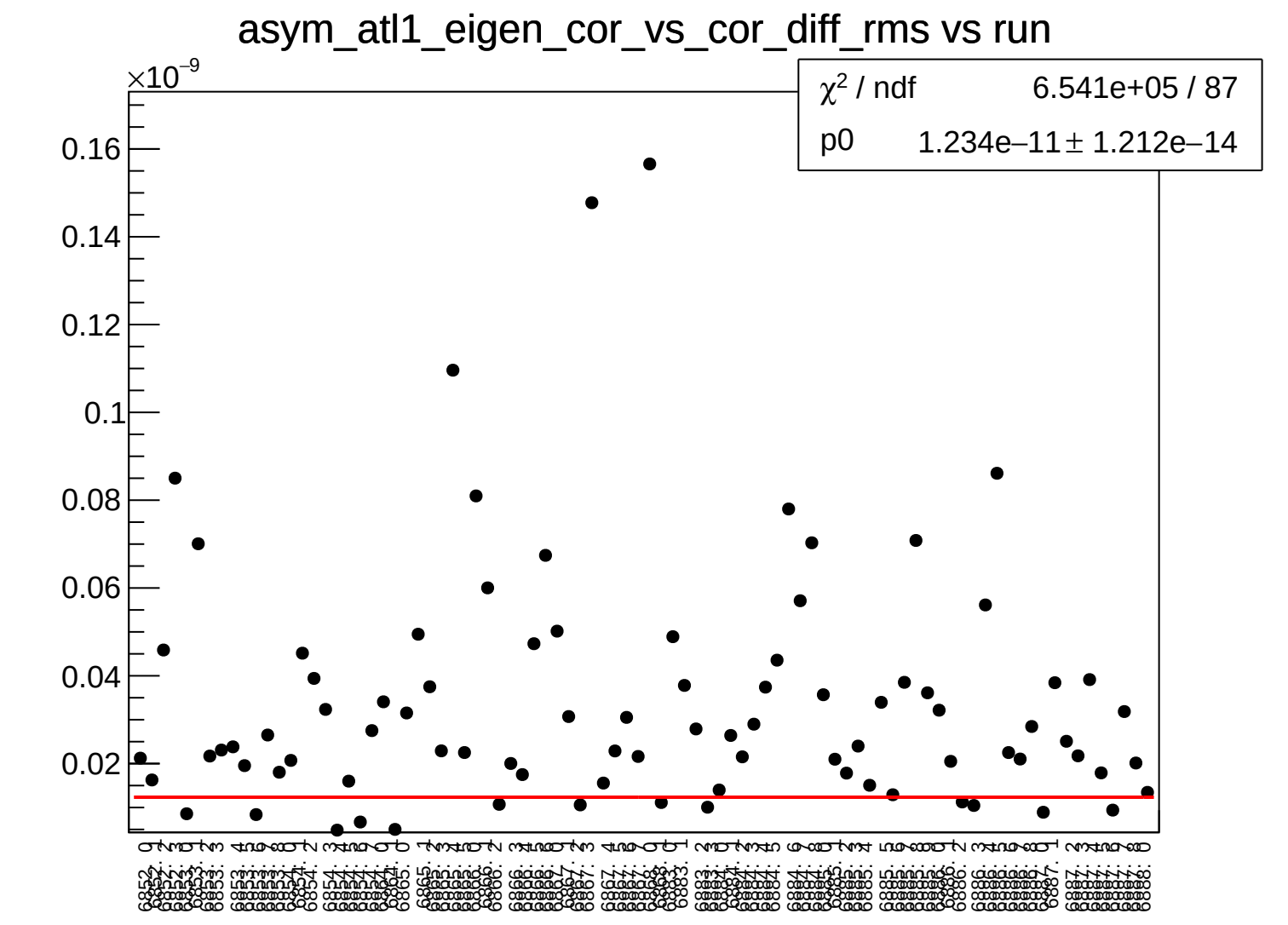

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.95 / 87
p0 −0.07828 ± 0.06214
pull
Entries 88
Mean −188.3
Std Dev 0

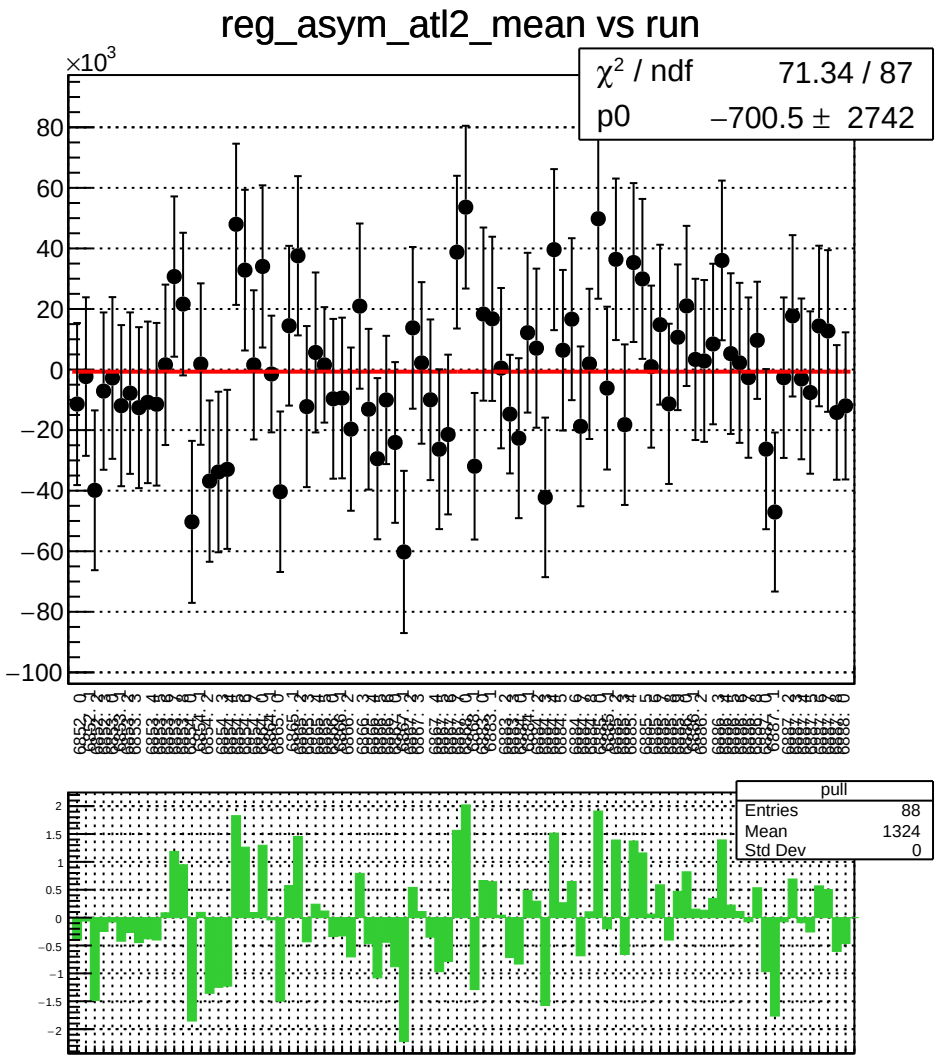

pull1D
Entries 88
Mean 0.01583
Std Dev 1.028

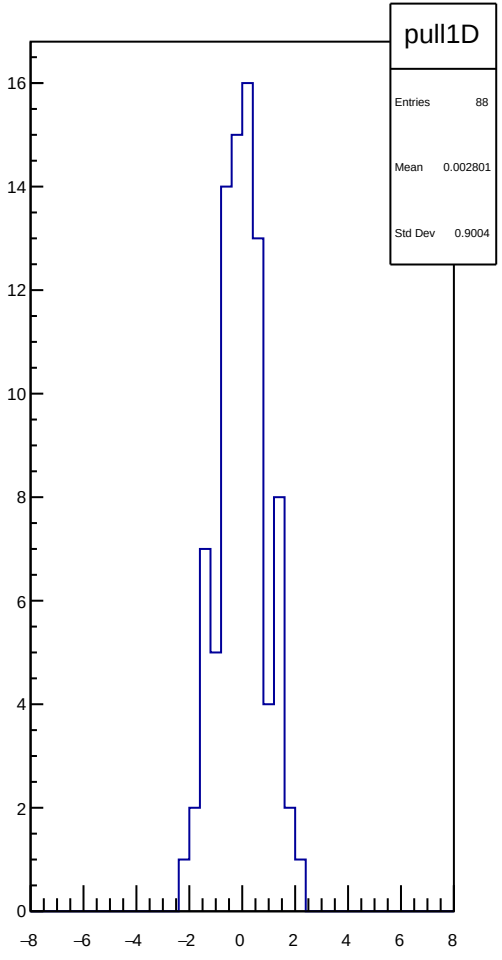

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.215e+05 / 87
p0 53.27 ± 0.04394
160
140
120
100
80
60
40
20

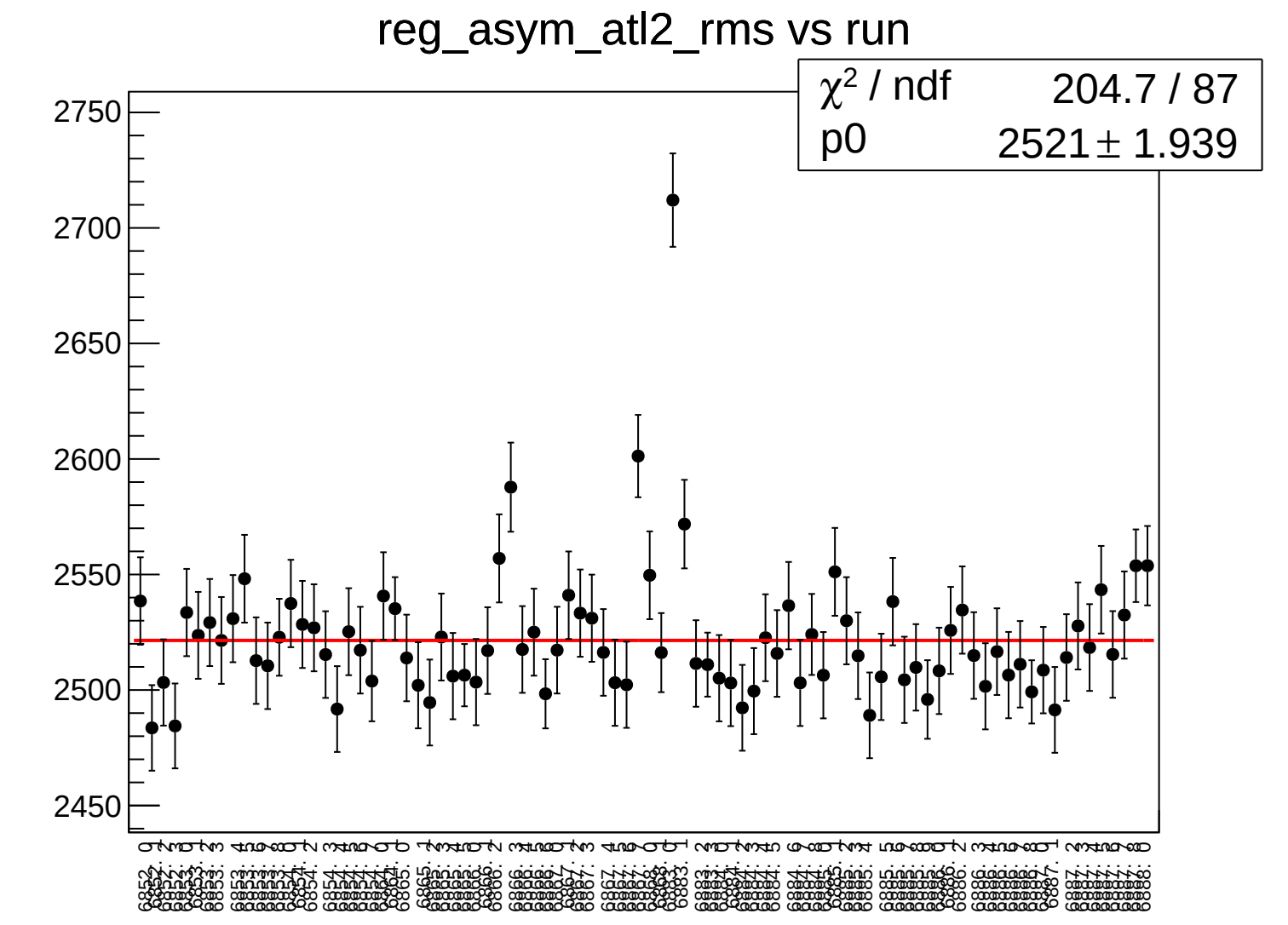

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.99 / 87
p0 −5.339e−15 ± 1.715e−14
pull
Entries 88
Mean 35.73
Std Dev 0

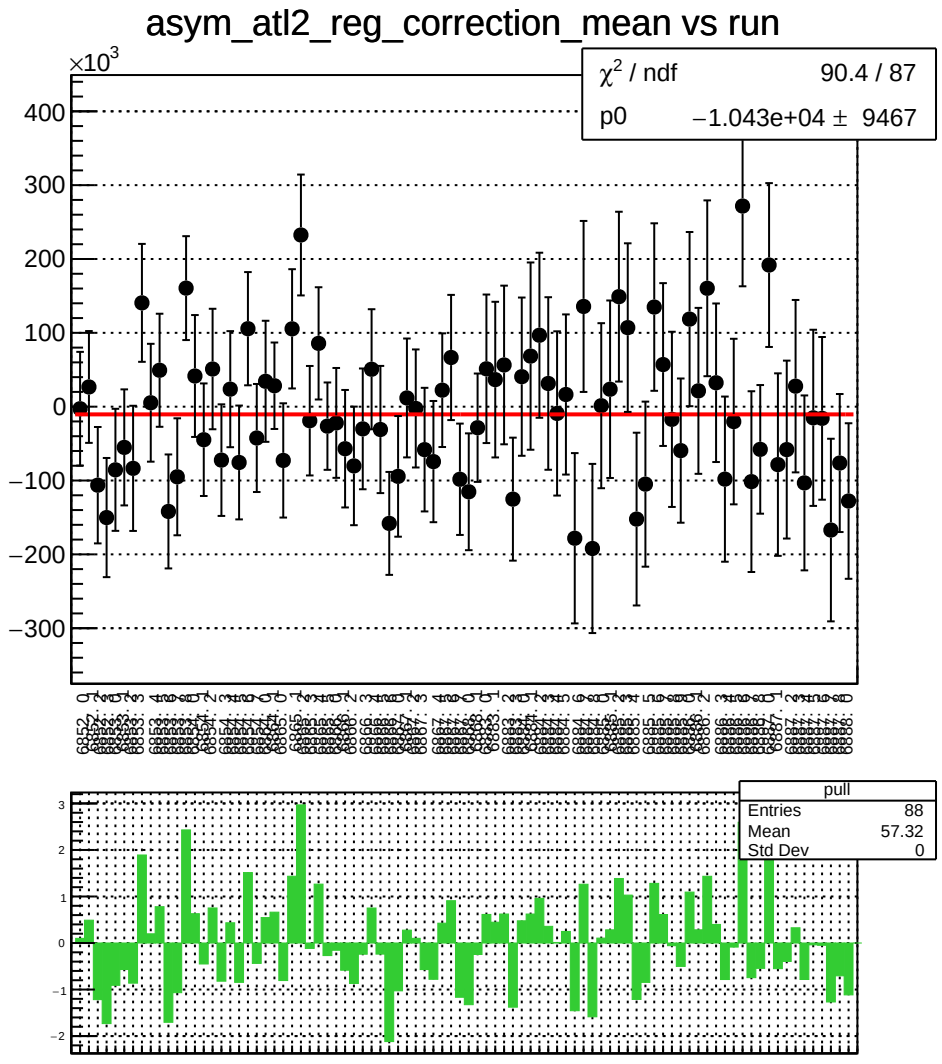

pull1D
Entries 88
Mean −0.04579
Std Dev 0.8778

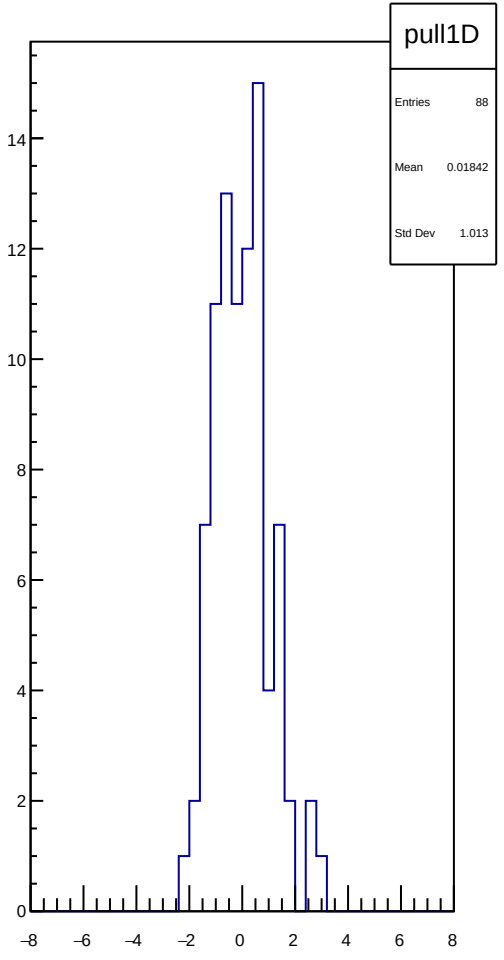

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.541e+05 / 87
p0 1.234e−11 ± 1.212e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

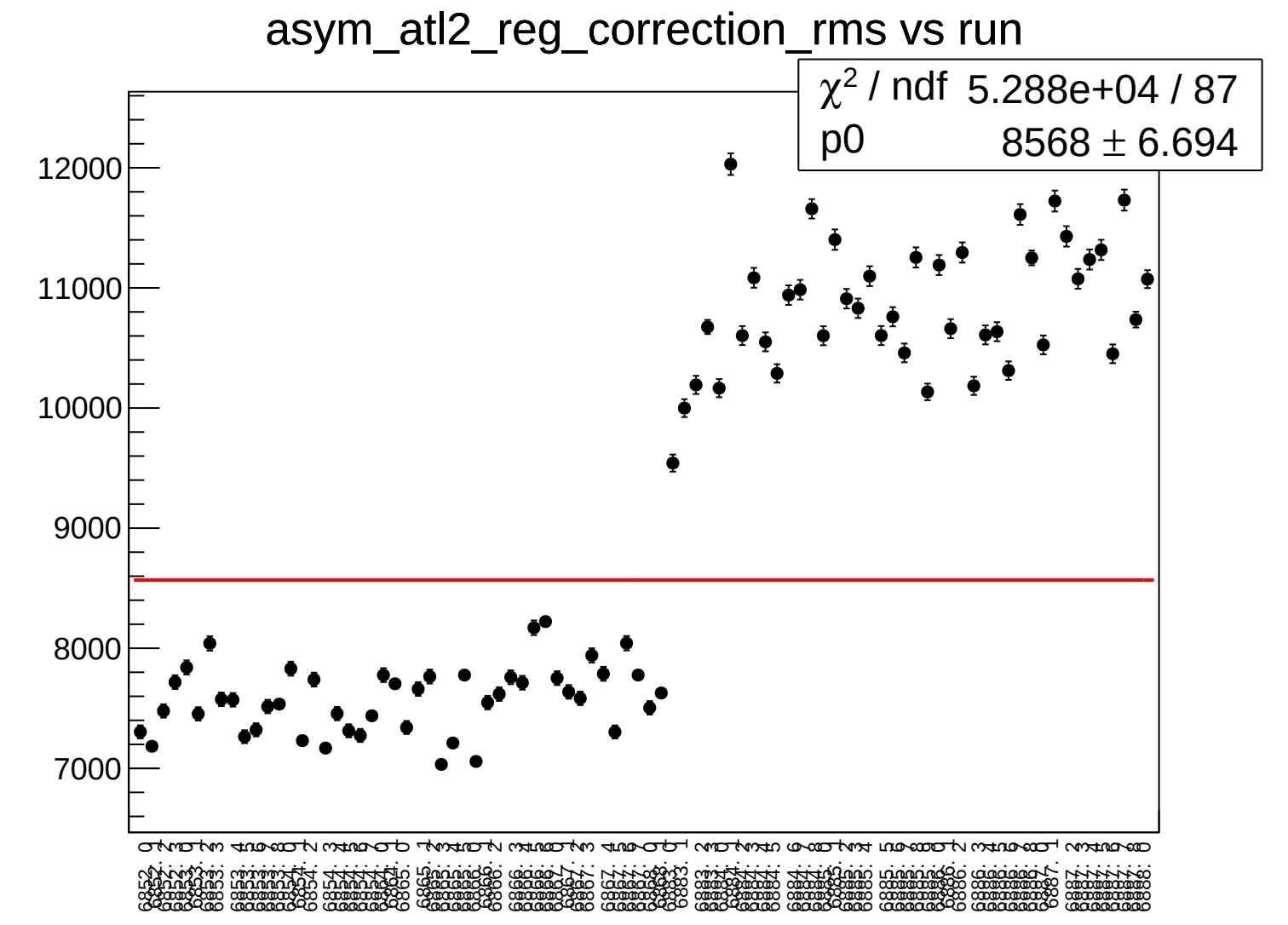

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 71.34 / 87
p0 −700.5 ± 2742
pull
Entries 88
Mean 1324
Std Dev 0

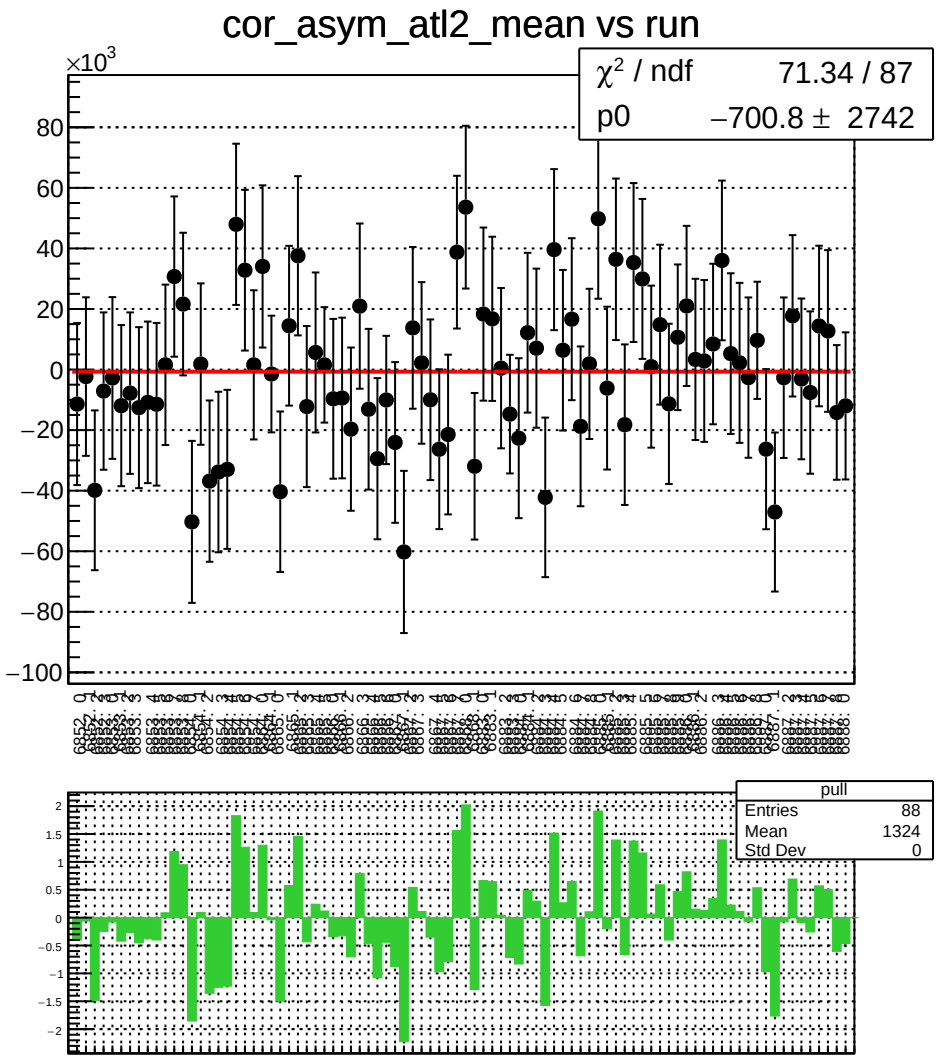

pull1D
Entries 88
Mean 0.002801
Std Dev 0.9004

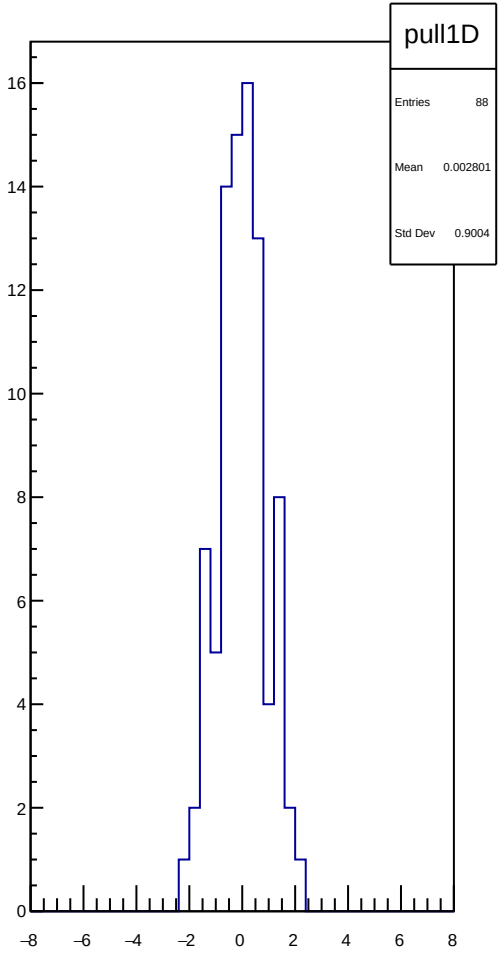

reg_asym_atl2_rms vs run
χ² / ndf 204.7 / 87
p0 2521 ± 1.939
2750
2700
2650
2600
2550
2500
2450

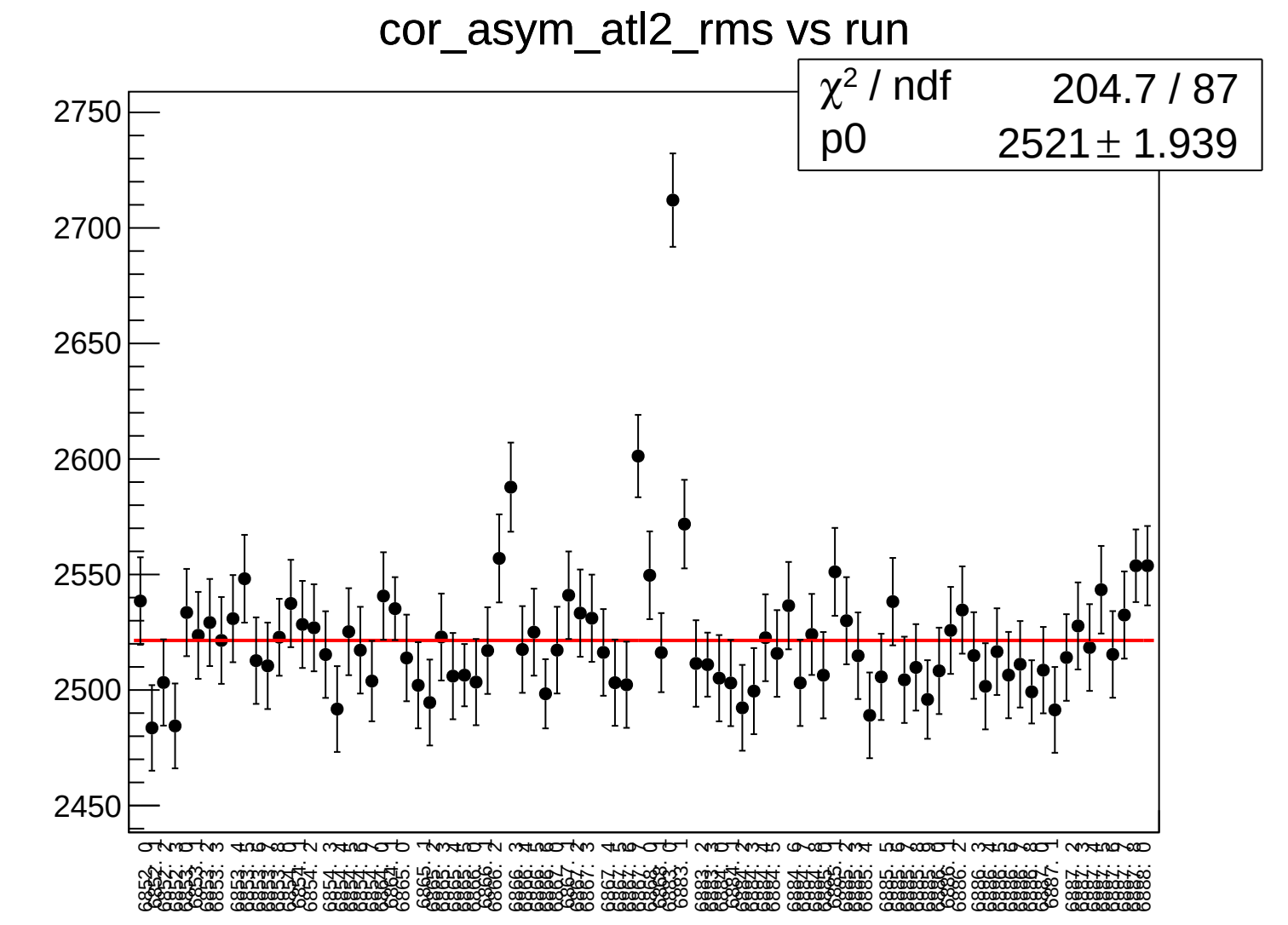

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 90.4 / 87
p0 −1.043e+04 ± 9467
pull
Entries 88
Mean 57.32
Std Dev 0

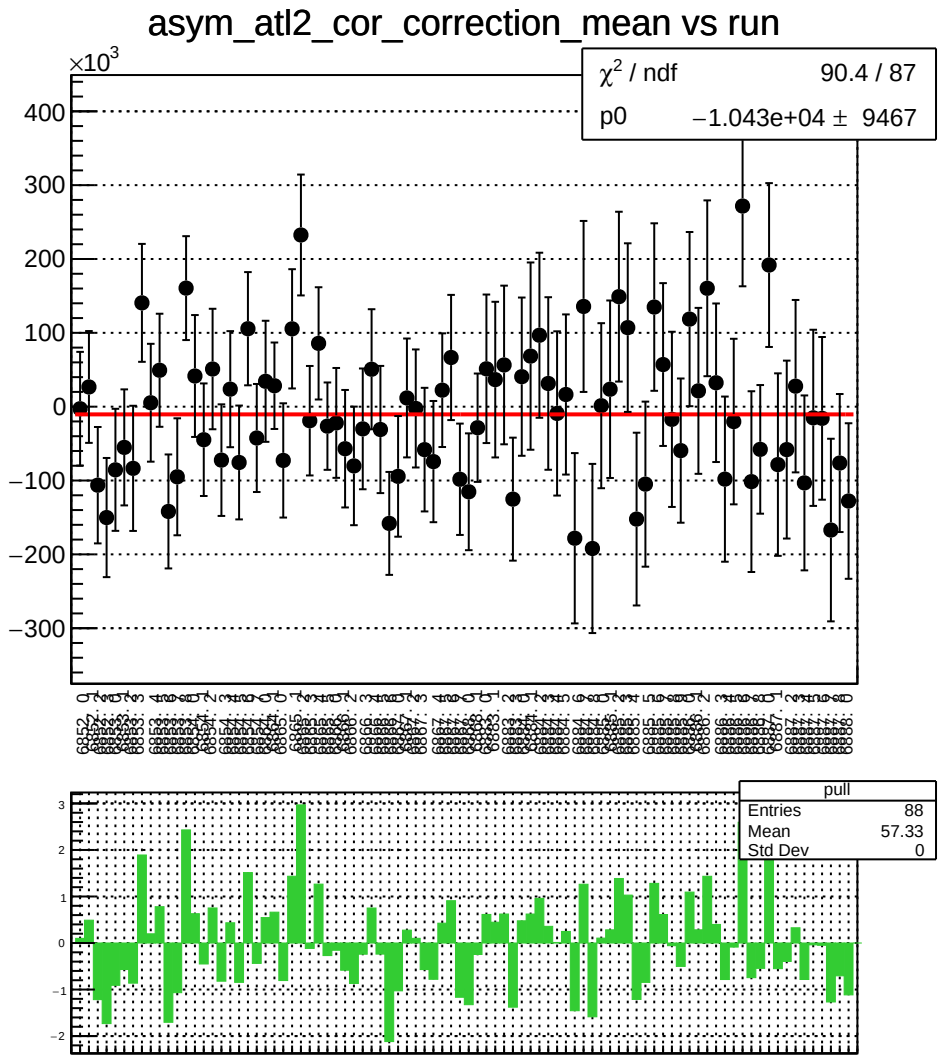

pull1D
Entries 88
Mean 0.01842
Std Dev 1.013

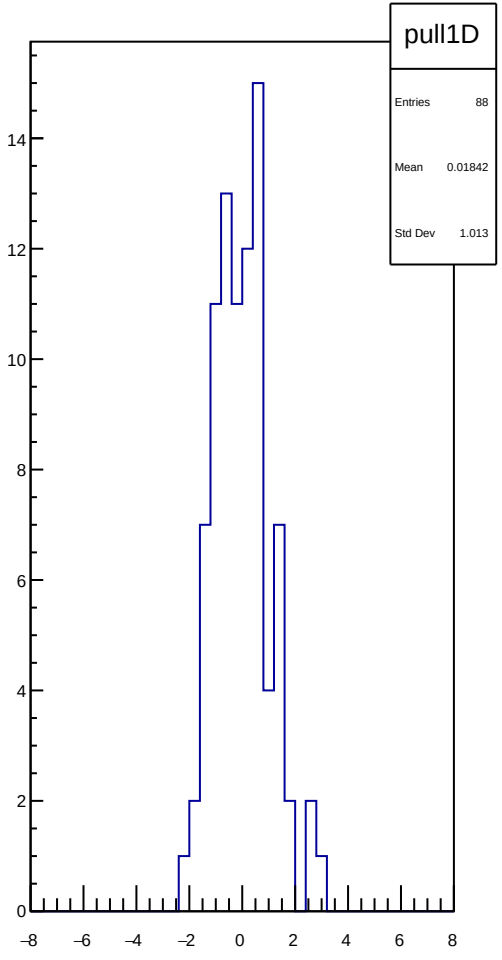

asym_atl2_reg_correction_rms vs run
χ² / ndf 5.288e+04 / 87
p0 8568 ± 6.694
12000
11000
10000
9000
8000
7000

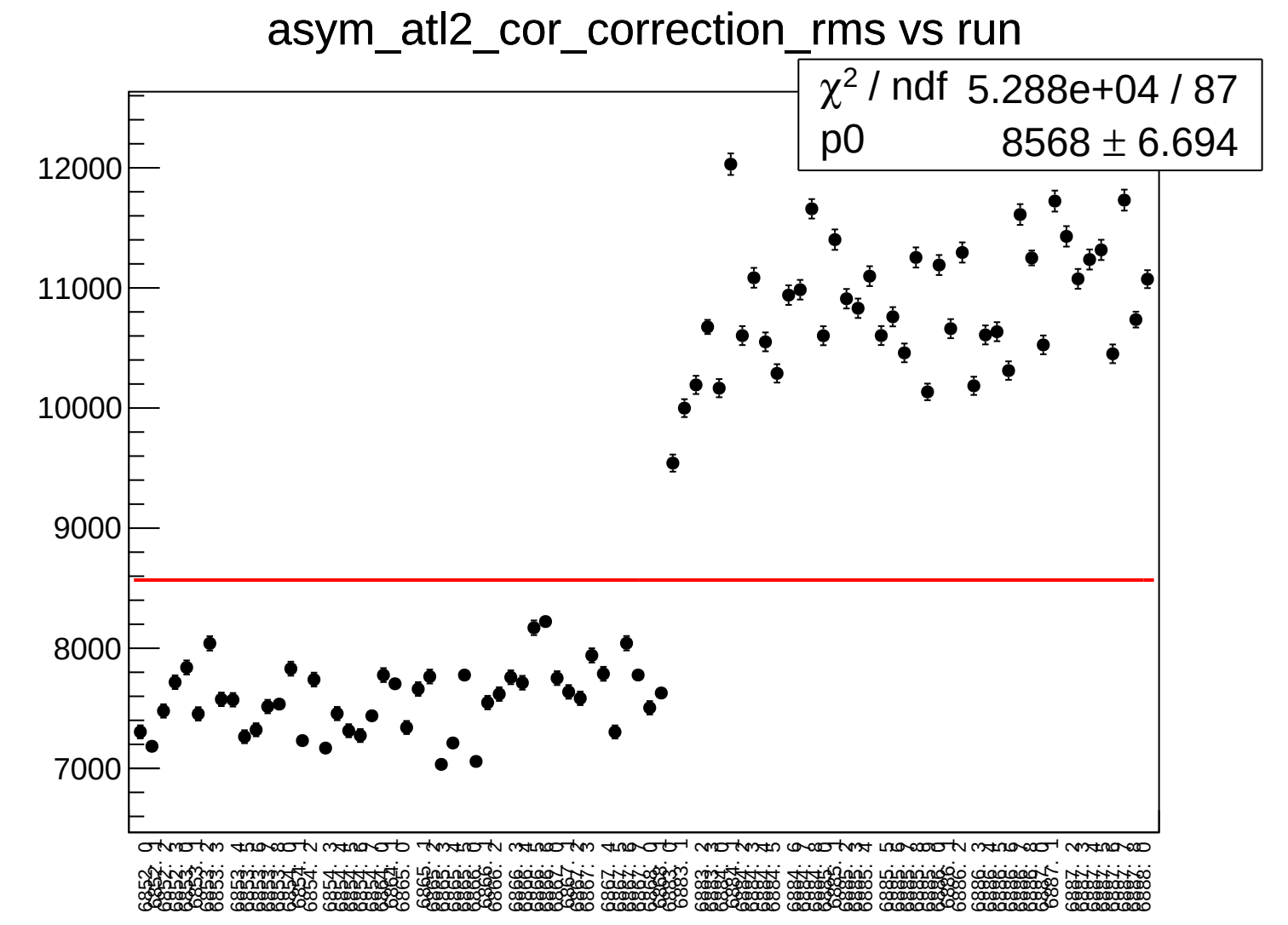

cor_asym_atl2_mean vs run
×10^3
χ² / ndf 71.34 / 87
p0 −700.8 ± 2742
pull
Entries 88
Mean 1324
Std Dev 0

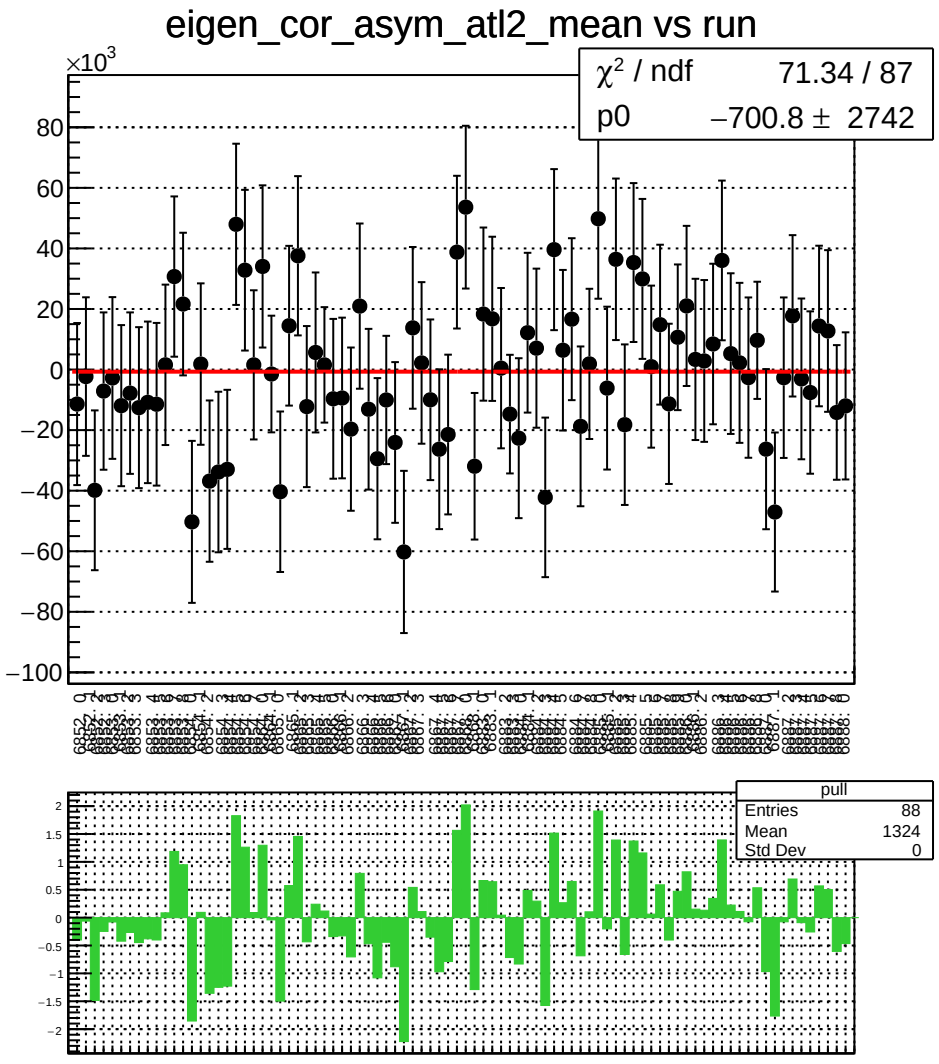

pull1D
Entries 88
Mean 0.002801
Std Dev 0.9004

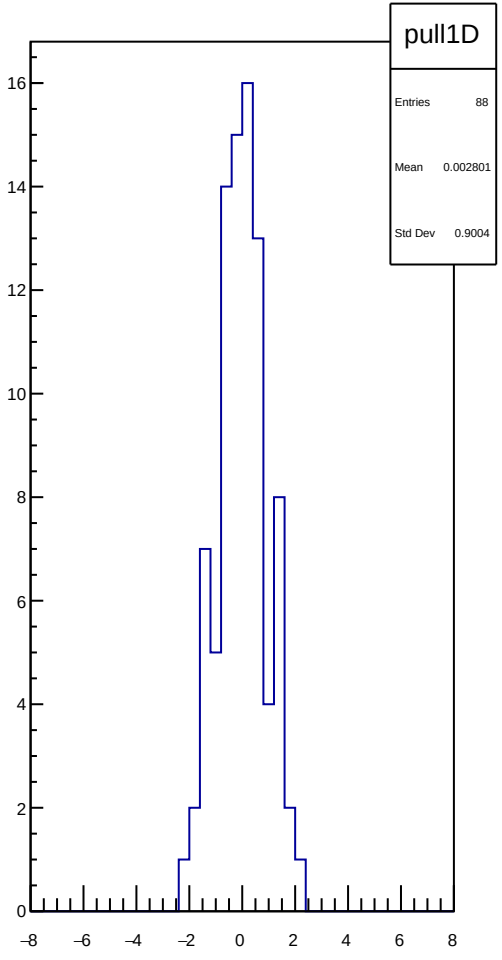

cor_asym_atl2_rms vs run
χ² / ndf 204.7 / 87
p0 2521 ± 1.939
2750
2700
2650
2600
2550
2500
2450

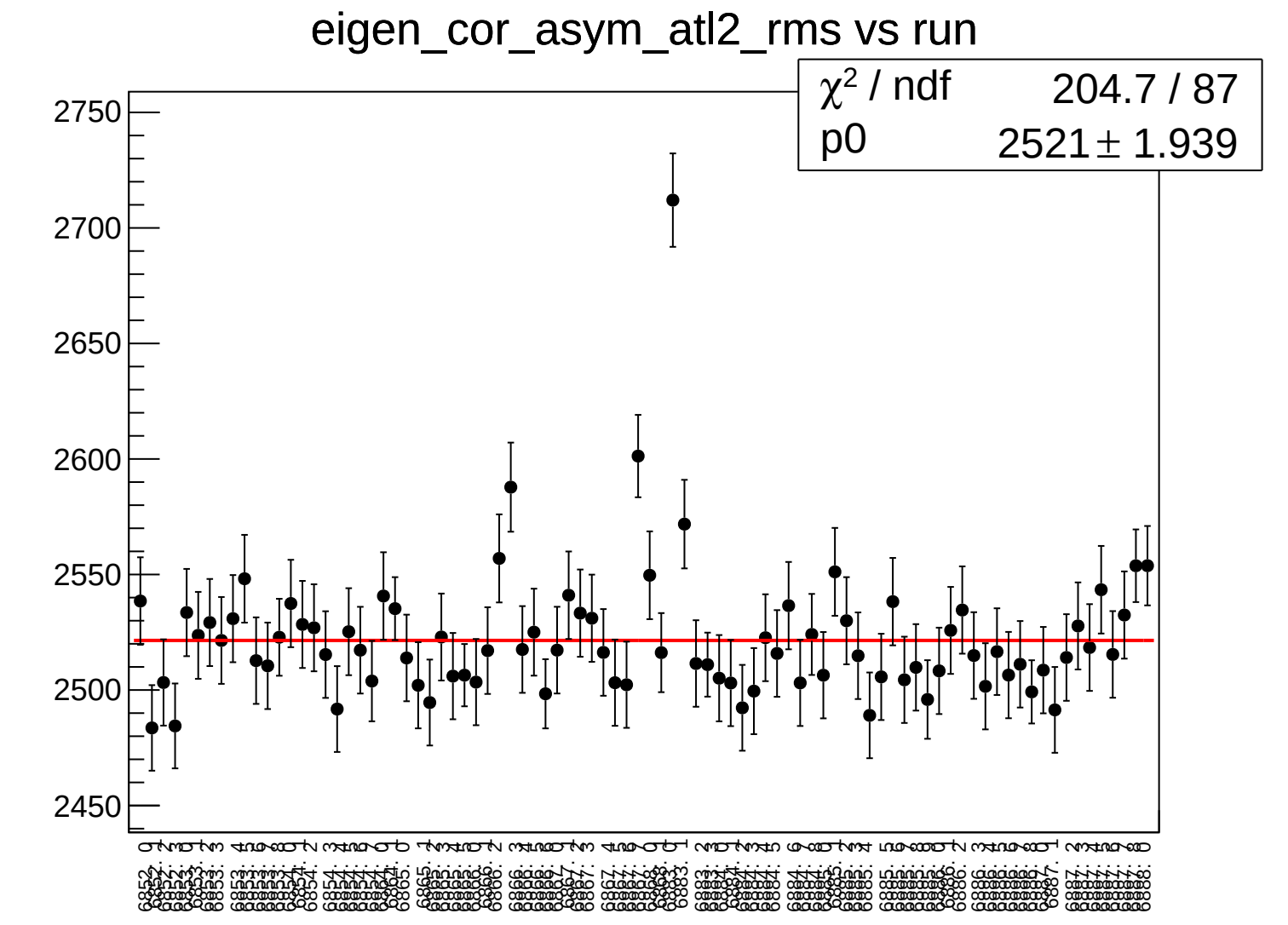

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 90.4 / 87
p0 −1.043e+04 ± 9467
pull
Entries 88
Mean 57.33
Std Dev 0

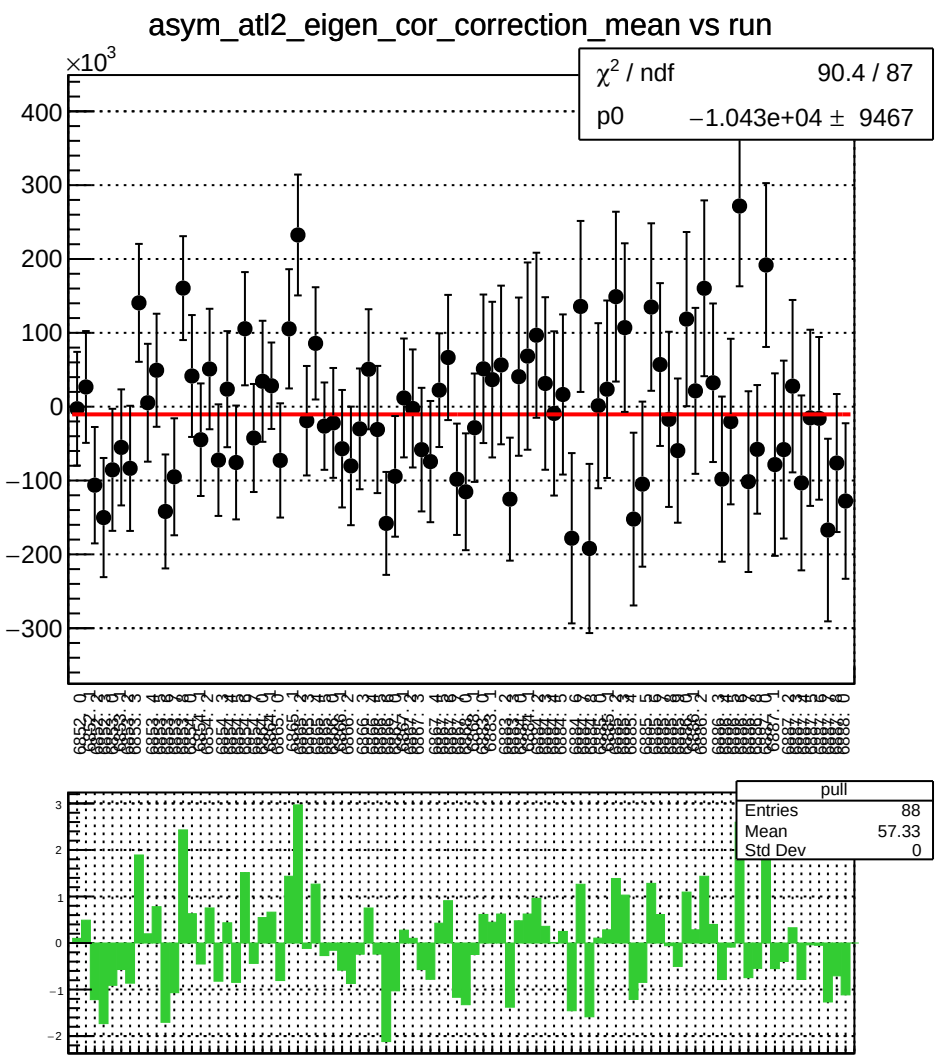

pull1D
Entries 88
Mean 0.01842
Std Dev 1.013

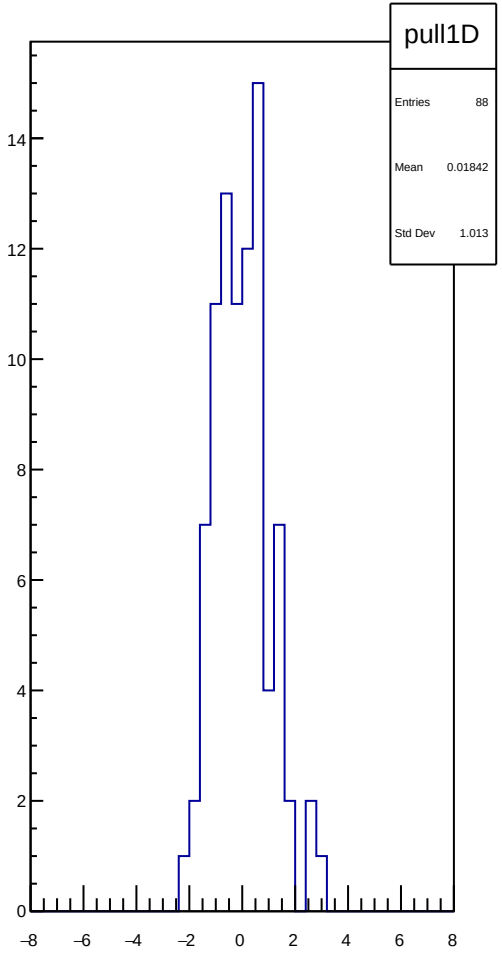

asym_atl2_cor_correction_rms vs run
χ² / ndf 5.288e+04 / 87
p0 8568 ± 6.694
12000
11000
10000
9000
8000
7000

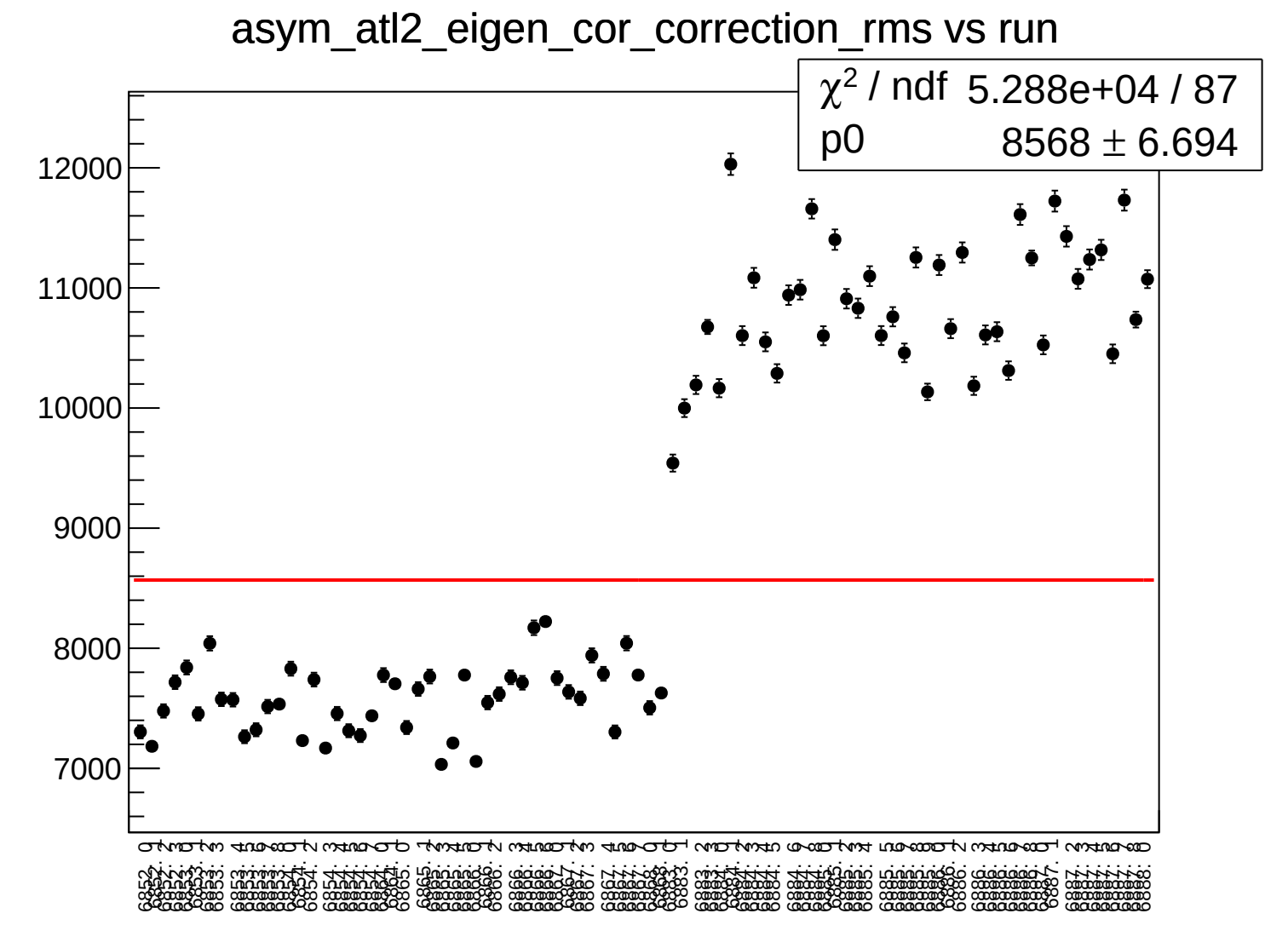

eigen_cor_asym_atl2_mean vs run
×10^3
χ² / ndf 71.34 / 87
p0 −700.8 ± 2742
pull
Entries 88
Mean 1324
Std Dev 0

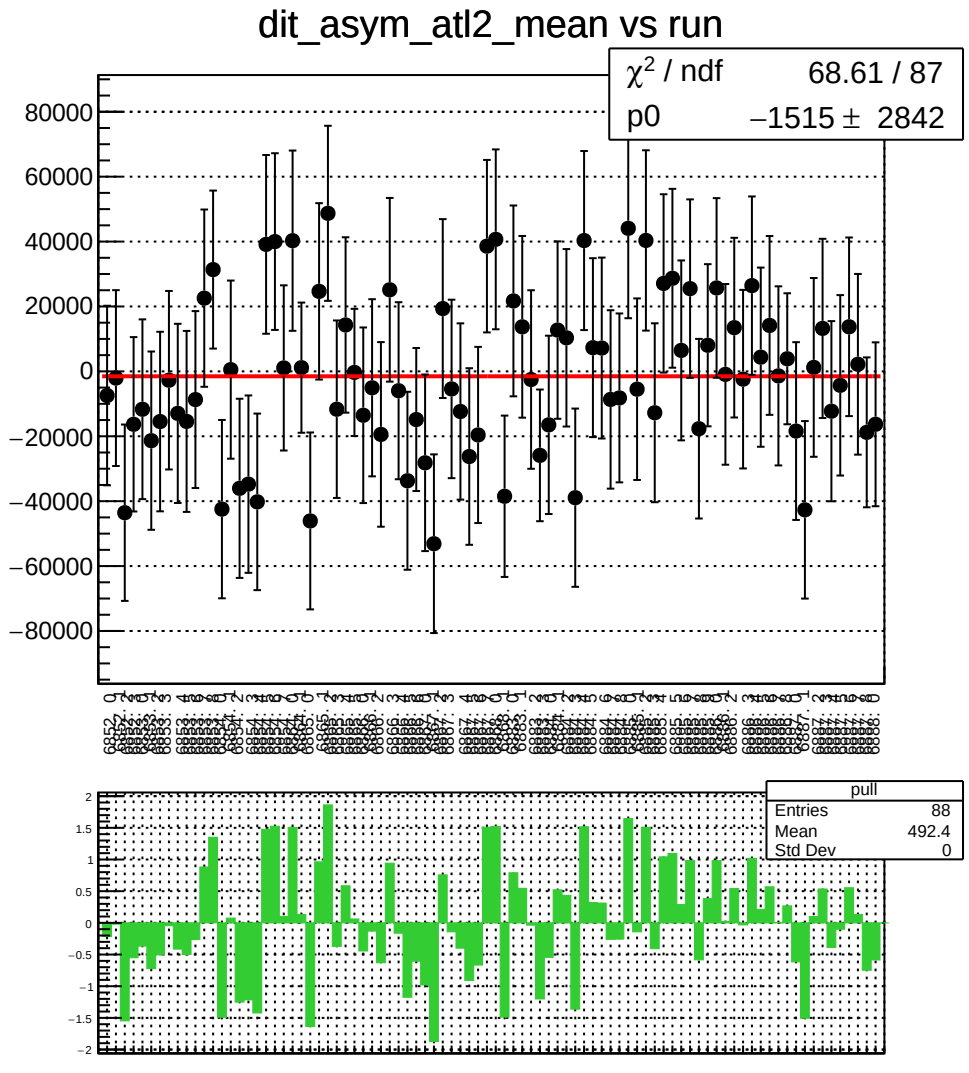

pull1D
Entries 88
Mean 0.002801
Std Dev 0.9004

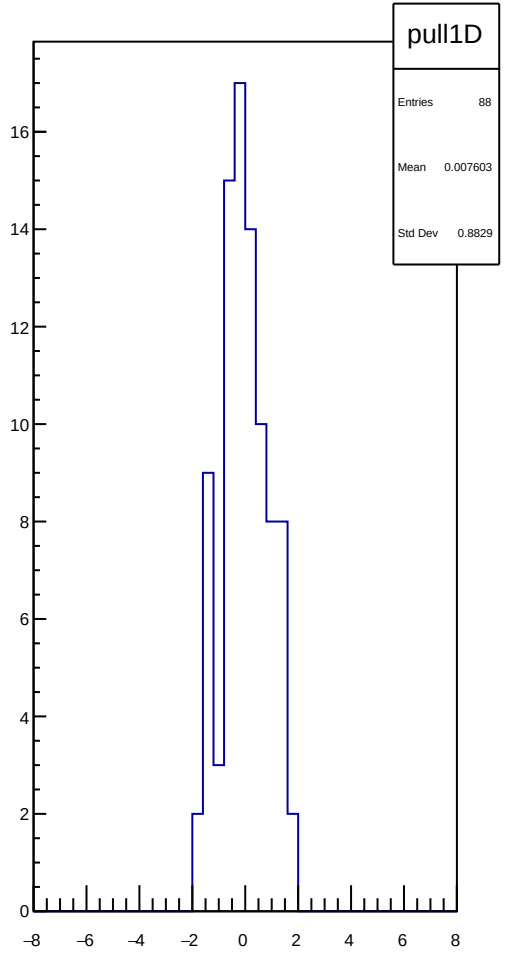

eigen_cor_asym_atl2_rms vs run
χ² / ndf 204.7 / 87
p0 2521 ± 1.939
2750
2700
2650
2600
2550
2500
2450

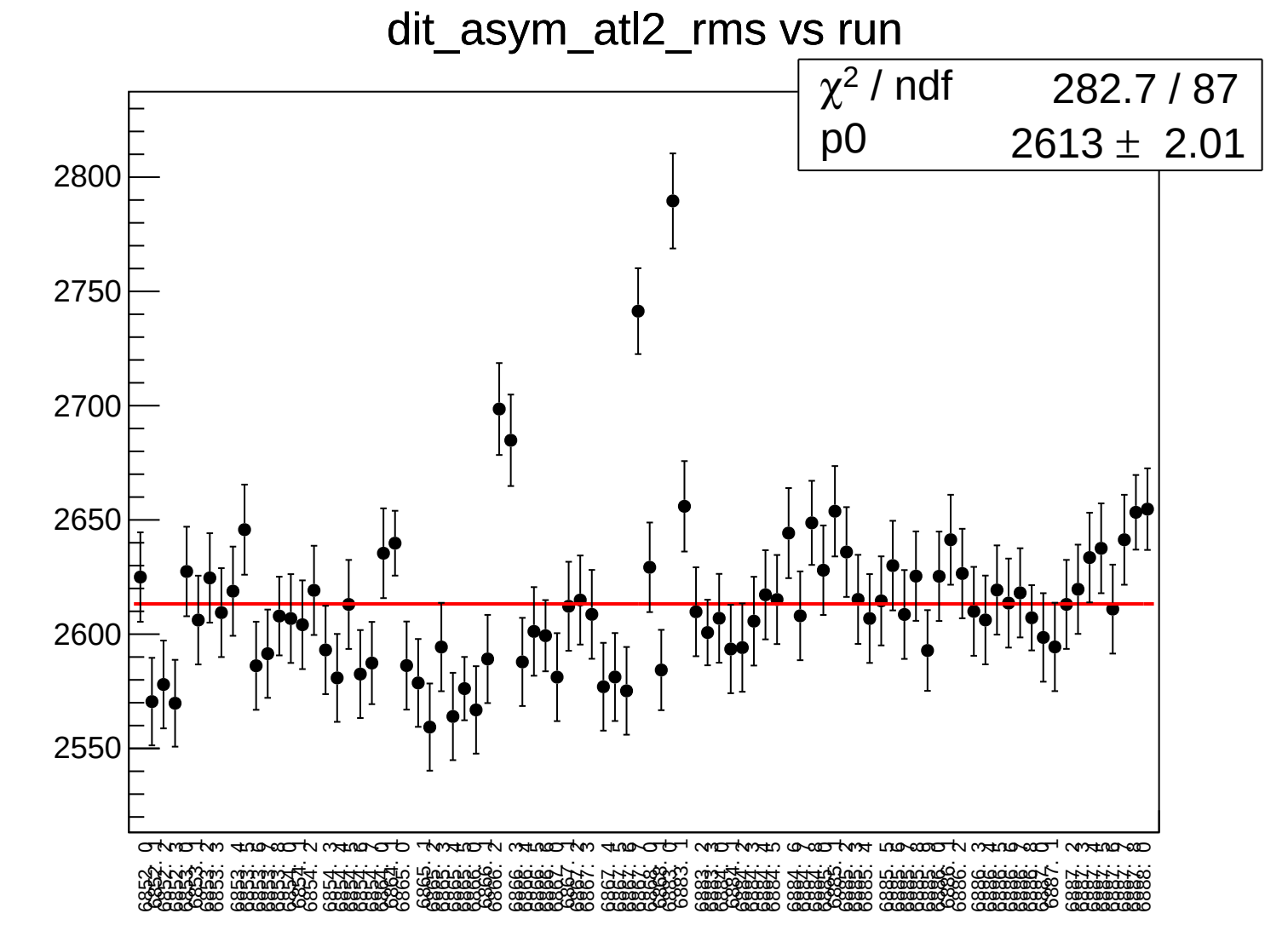

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.4 / 87
p0 −1.043e+04 ± 9467
pull
Entries 88
Mean 57.33
Std Dev 0

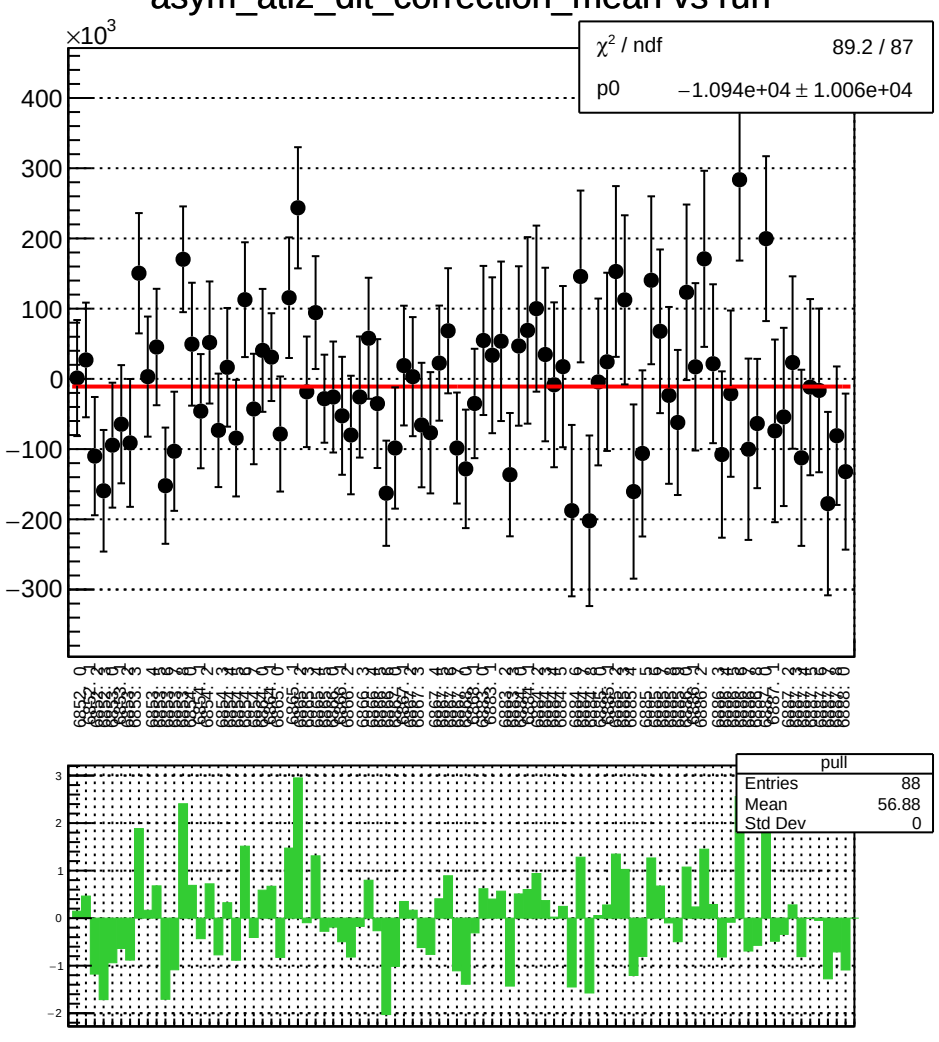

pull1D
Entries 88
Mean 0.01842
Std Dev 1.013

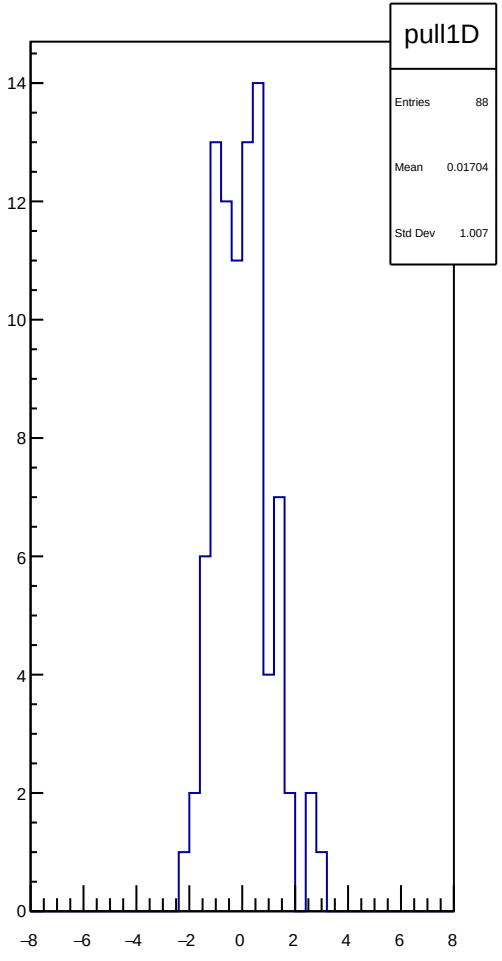

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 5.288e+04 / 87
p0 8568 ± 6.694
12000
11000
10000
9000
8000
7000

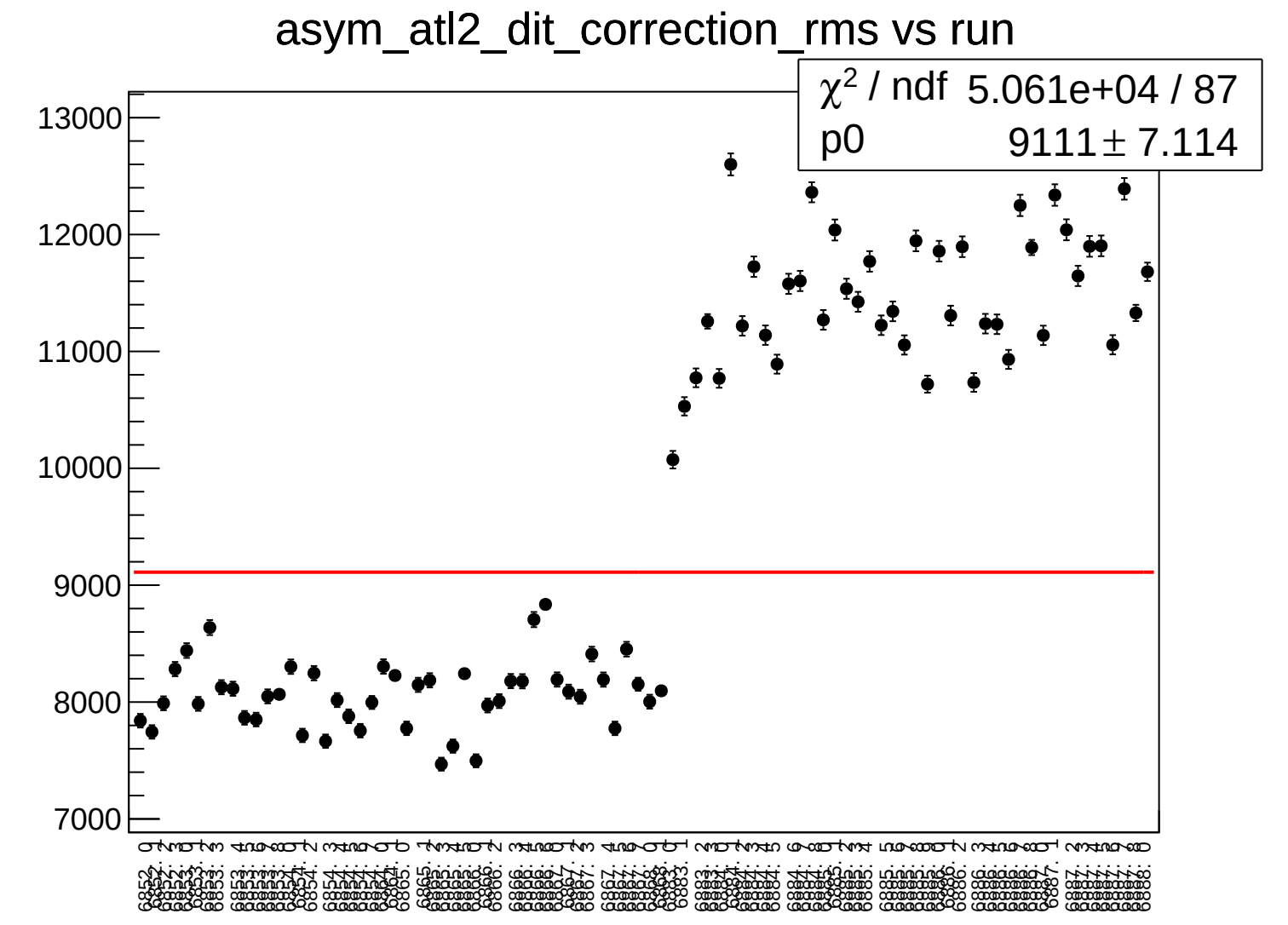

dit_asym_atl2_mean vs run
χ² / ndf 68.61 / 87
p0 −1515 ± 2842
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 492.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

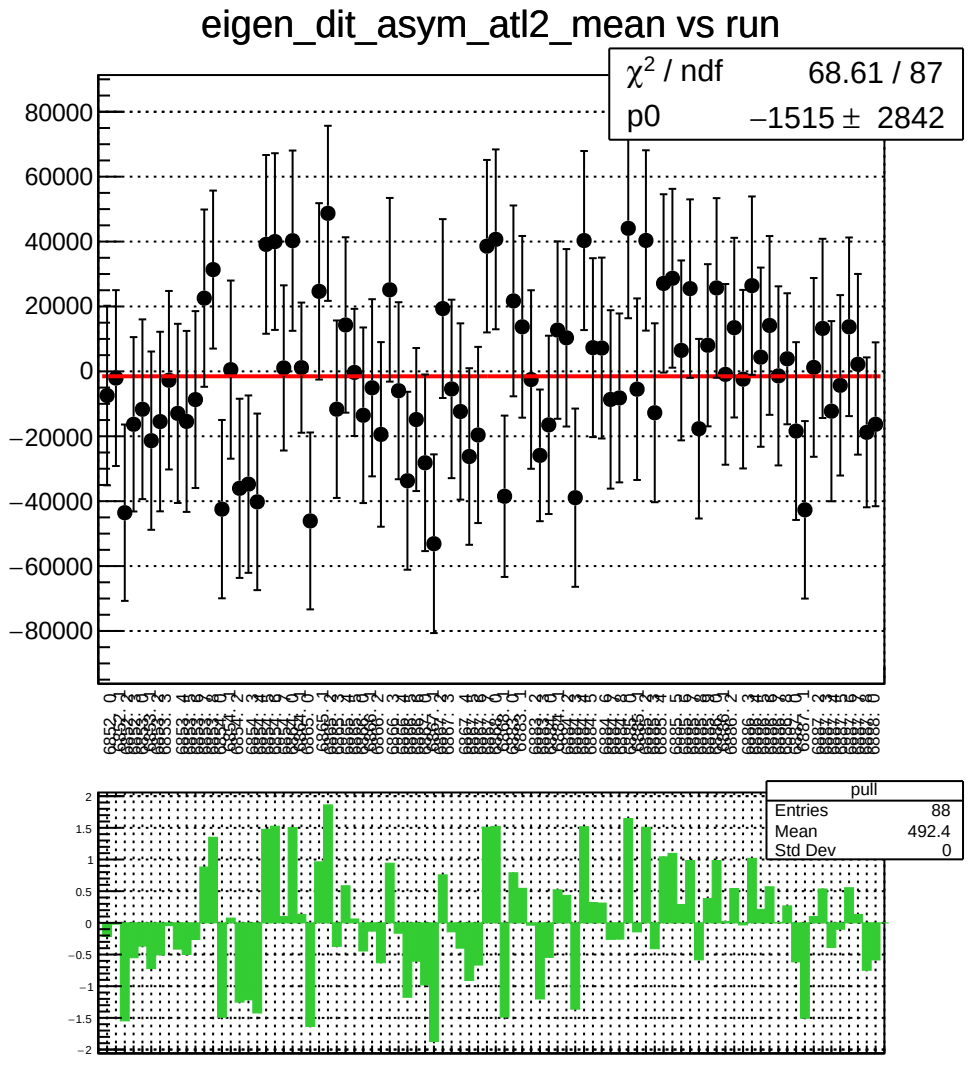

pull1D
Entries 88
Mean 0.007603
Std Dev 0.8829
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

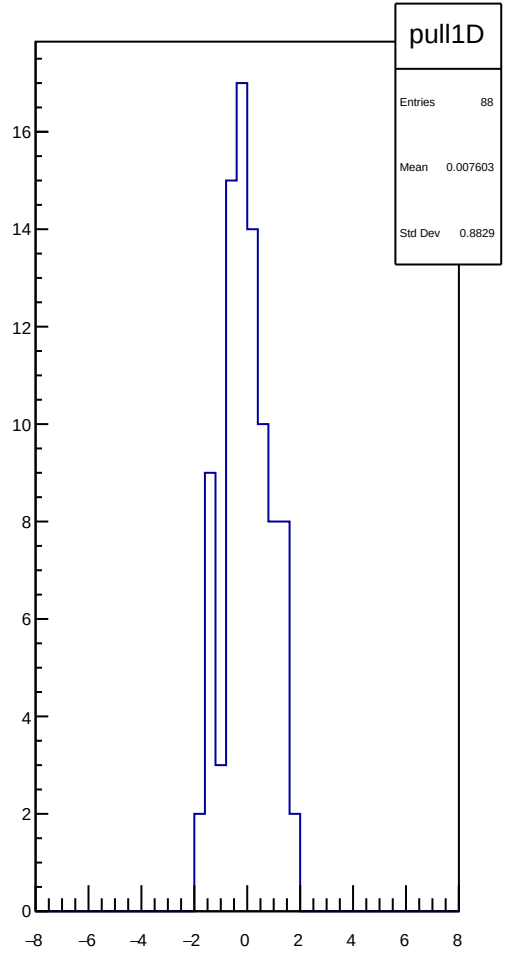

dit_asym_atl2_rms vs run
χ² / ndf 282.7 / 87
p0 2613 ± 2.01
2800
2750
2700
2650
2600
2550

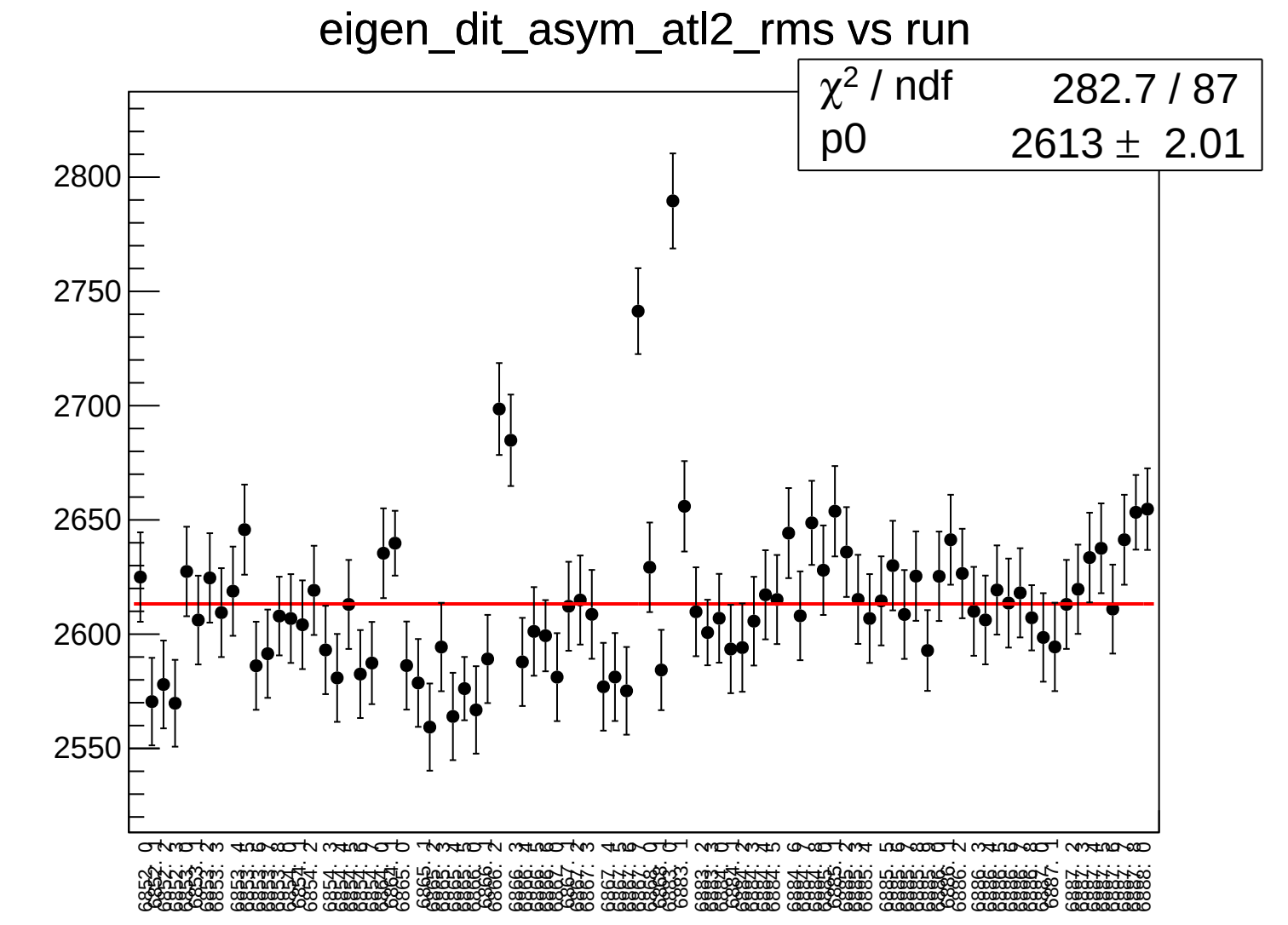

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 89.2 / 87
p0 −1.094e+04 ± 1.006e+04
400
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 56.88
Std Dev 0
3
2
1
0
−1
−2

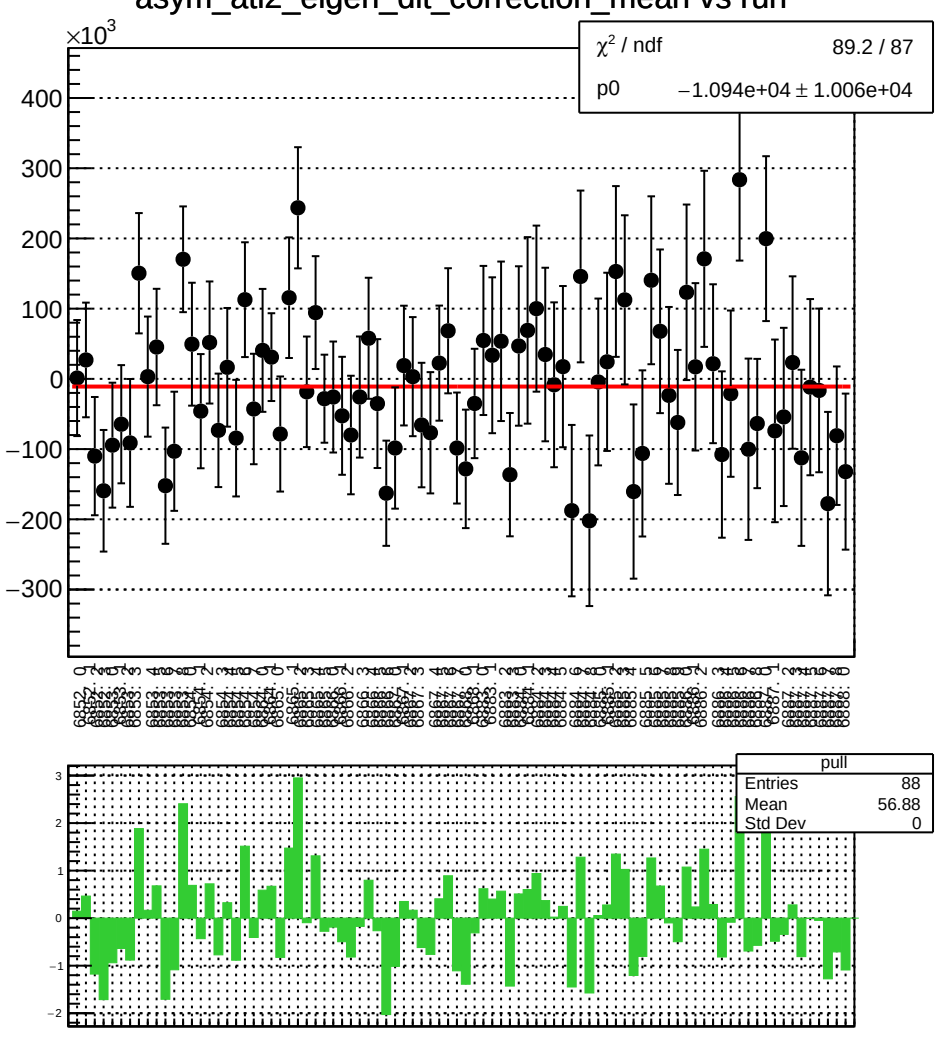

pull1D
Entries 88
Mean 0.01704
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

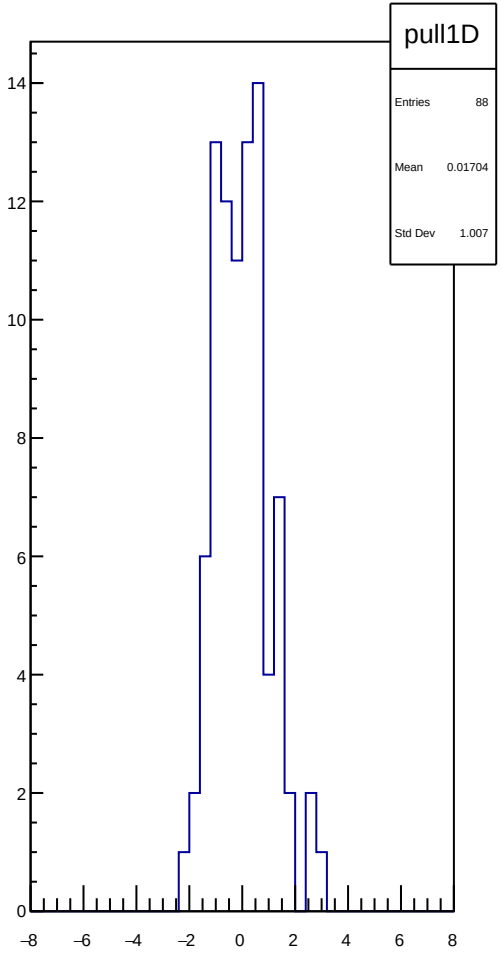

asym_atl2_dit_correction_rms vs run
χ² / ndf 5.061e+04 / 87
p0 9111 ± 7.114
13000
12000
11000
10000
9000
8000
7000

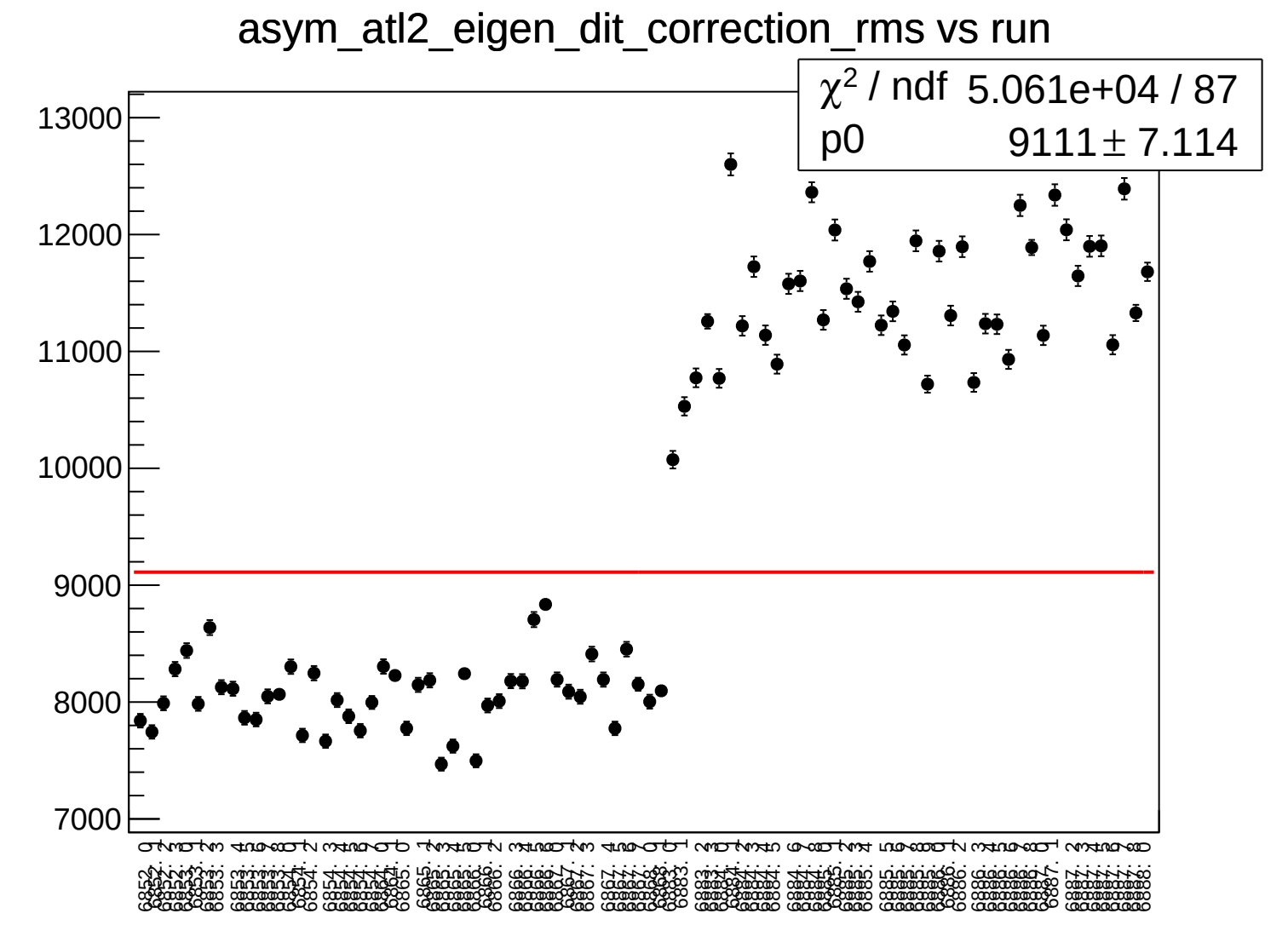

eigen_dit_asym_atl2_mean vs run
χ² / ndf 68.61 / 87
p0 −1515 ± 2842
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 492.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

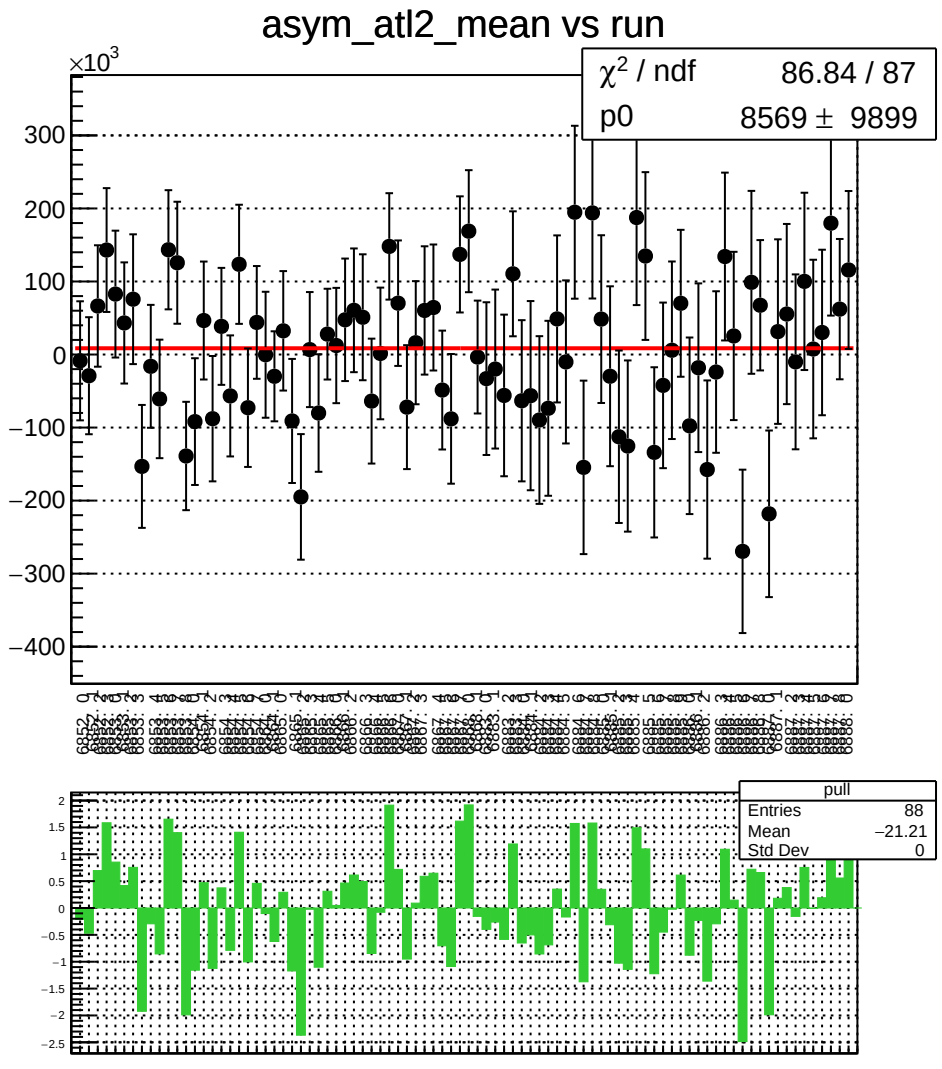

pull1D
Entries 88
Mean 0.007603
Std Dev 0.8829
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

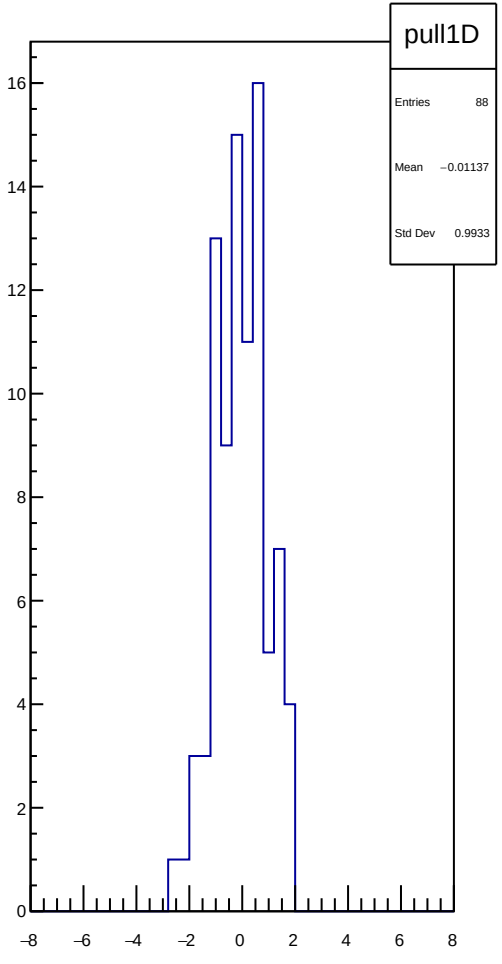

eigen_dit_asym_atl2_rms vs run
χ² / ndf 282.7 / 87
p0 2613 ± 2.01
2800
2750
2700
2650
2600
2550

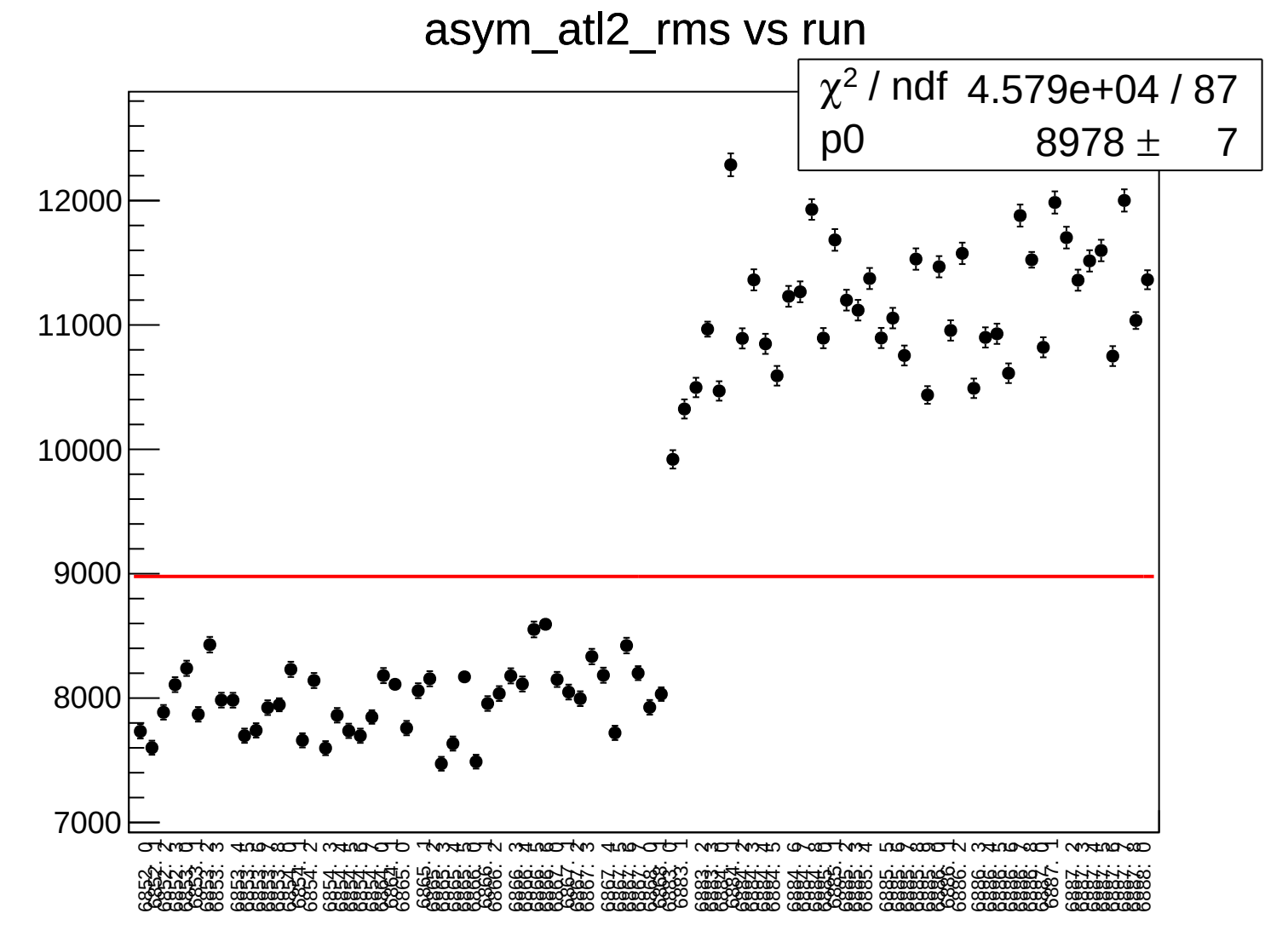

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.2 / 87
p0 −1.094e+04 ± 1.006e+04
400
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 56.88
Std Dev 0
3
2
1
0
−1
−2

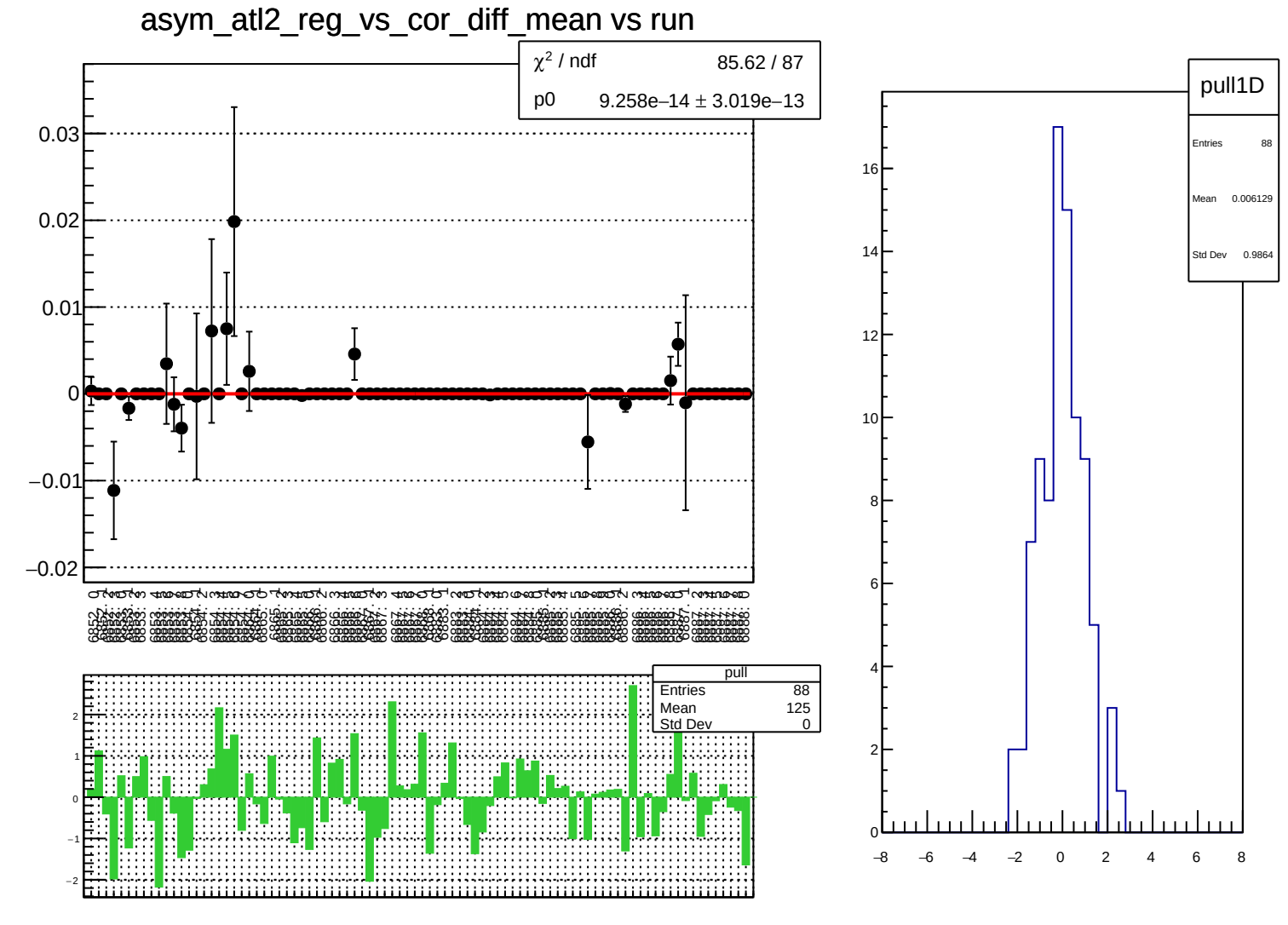

pull1D
Entries 88
Mean 0.01704
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

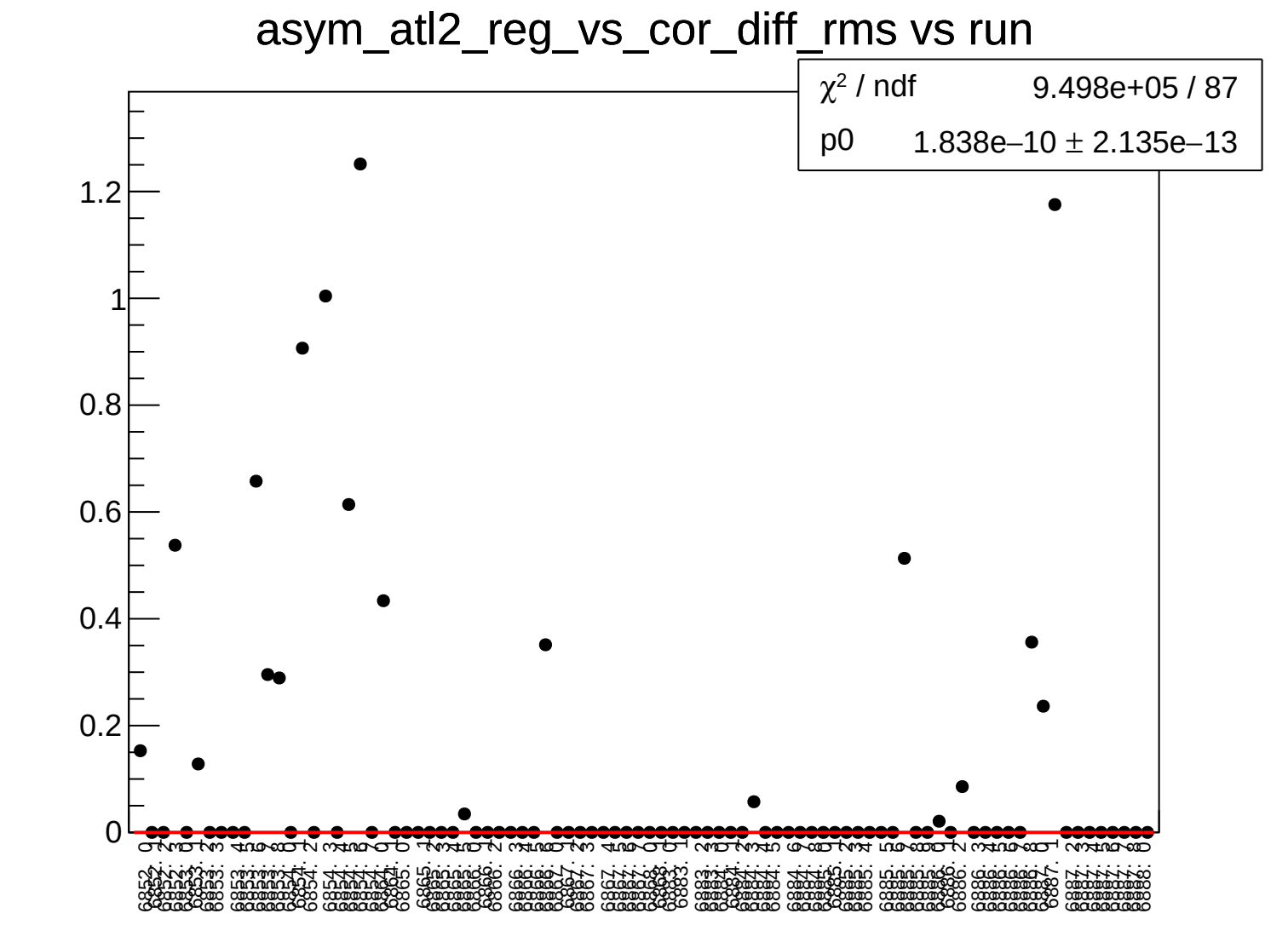

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 5.061e+04 / 87
p0 9111 ± 7.114
13000
12000
11000
10000
9000
8000
7000

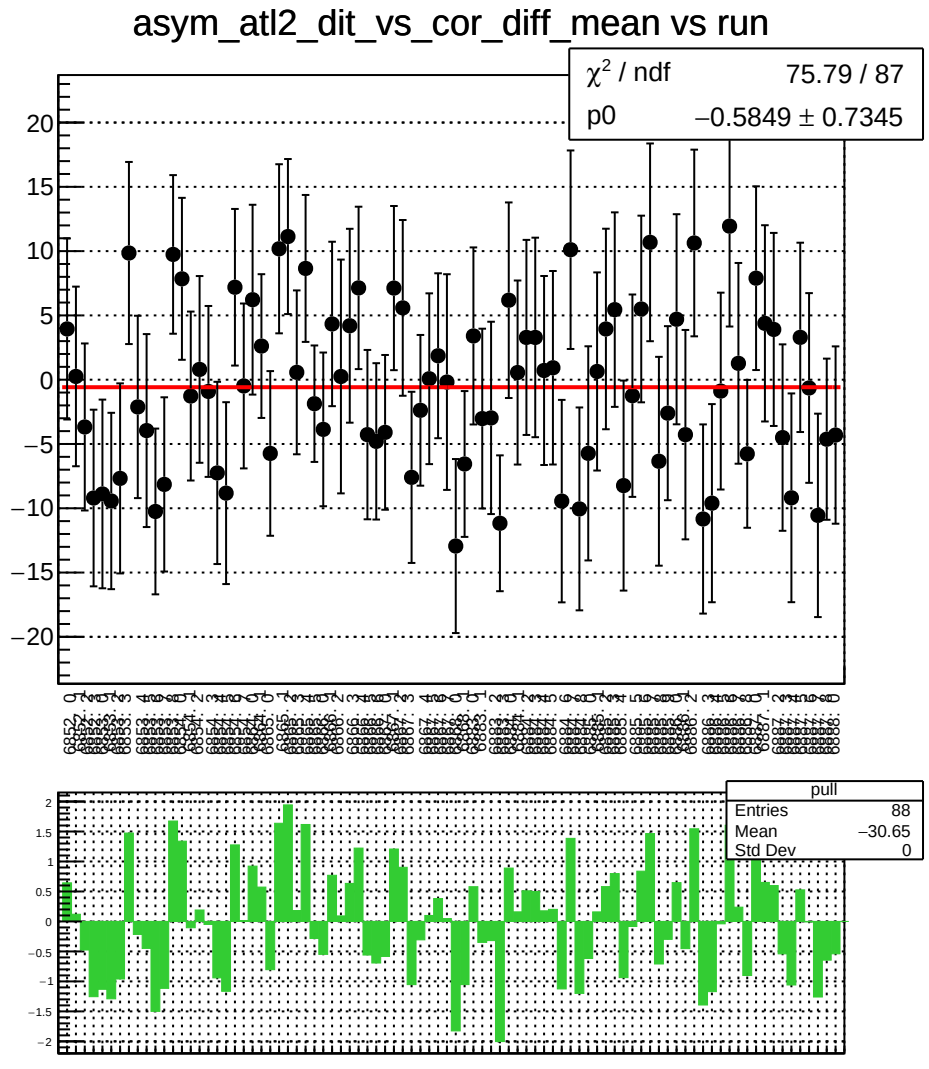

asym_atl2_mean vs run
×10^3
χ^2 / ndf 86.84 / 87
p0 8569 ± 9899
300
200
100
0
−100
−200
−300
−400
pull
Entries 88
Mean −21.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

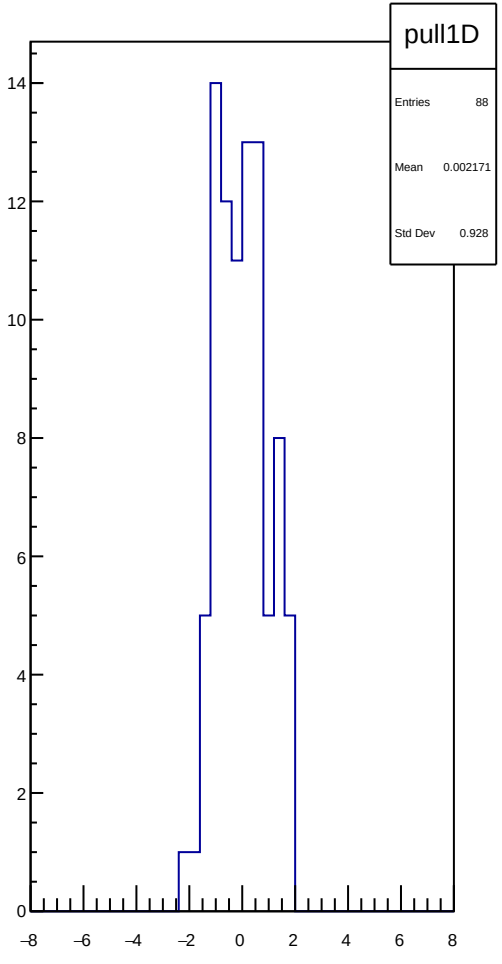

pull1D
Entries 88
Mean −0.01137
Std Dev 0.9933
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

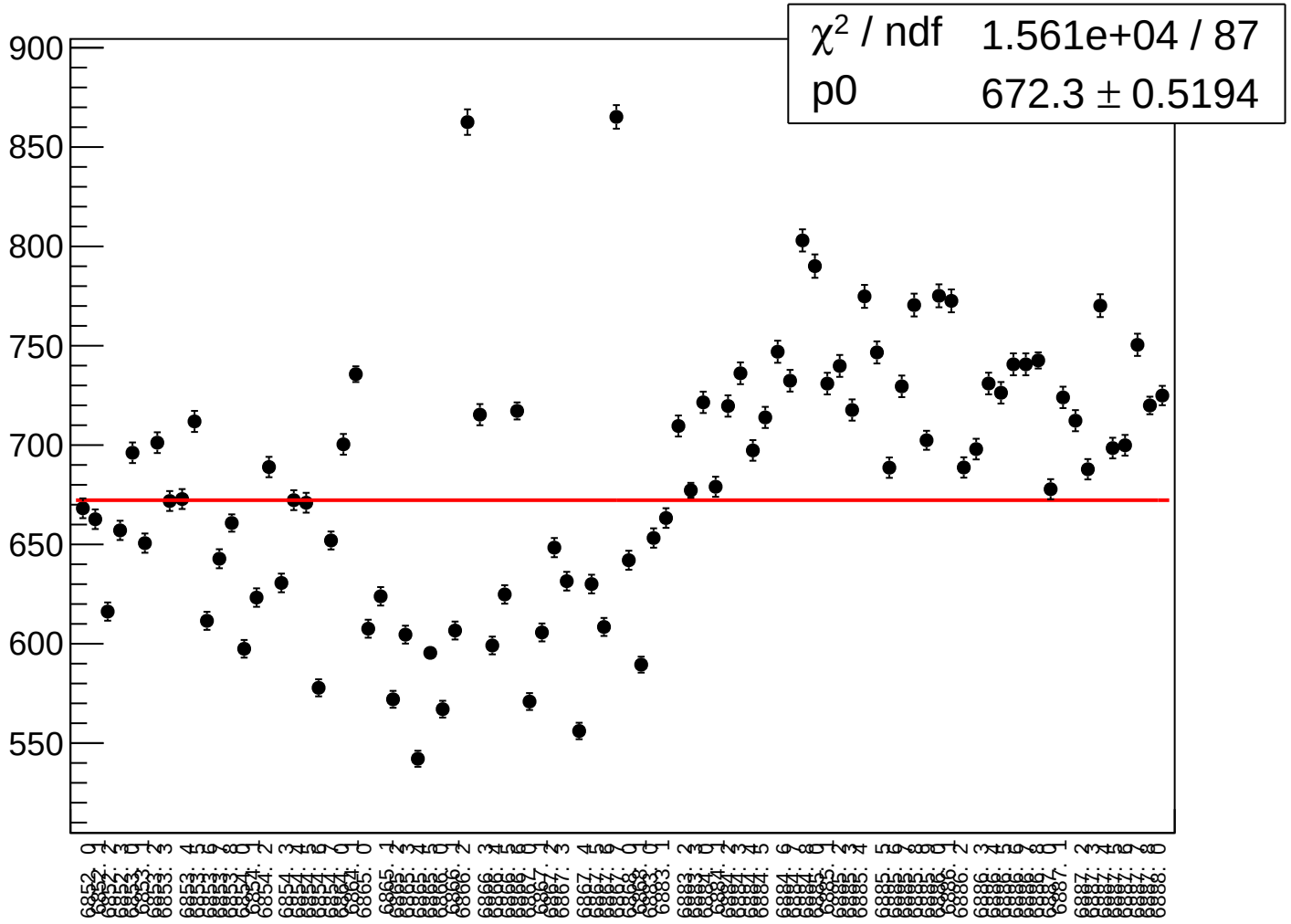

asym_atl2_rms vs run
χ² / ndf 4.579e+04 / 87
p0 8978 ± 7
12000
11000
10000
9000
8000
7000

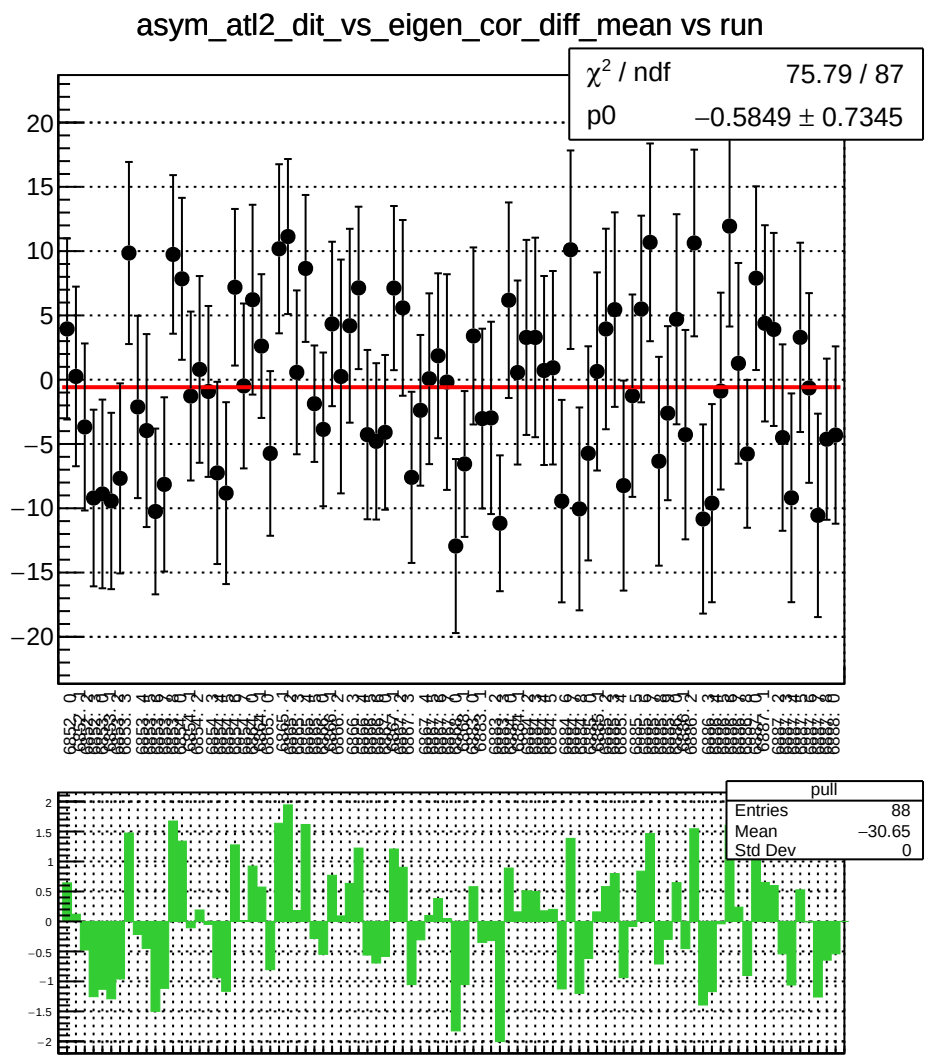

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 85.62 / 87
p0 9.258e−14 ± 3.019e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 125
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.006129
Std Dev 0.9864
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

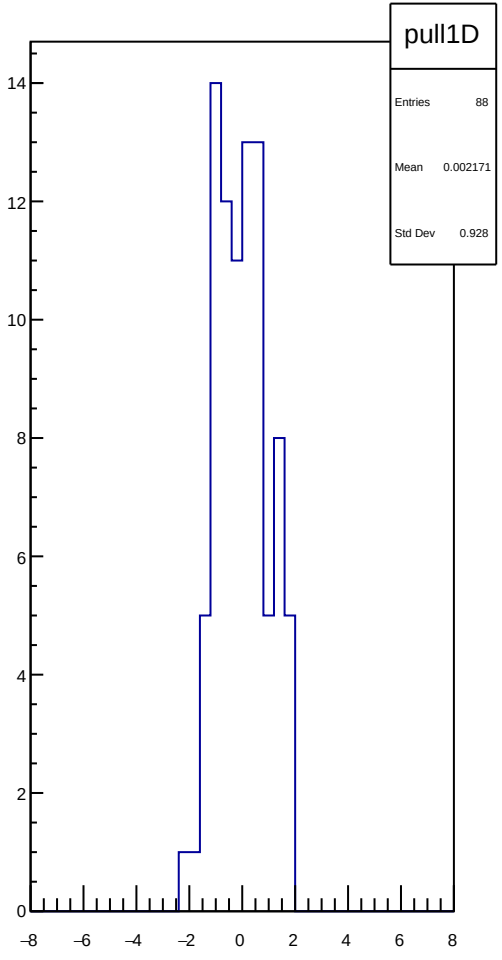

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.498e+05 / 87
p0 1.838e−10 ± 2.135e−13
1.2
1
0.8
0.6
0.4
0.2
0

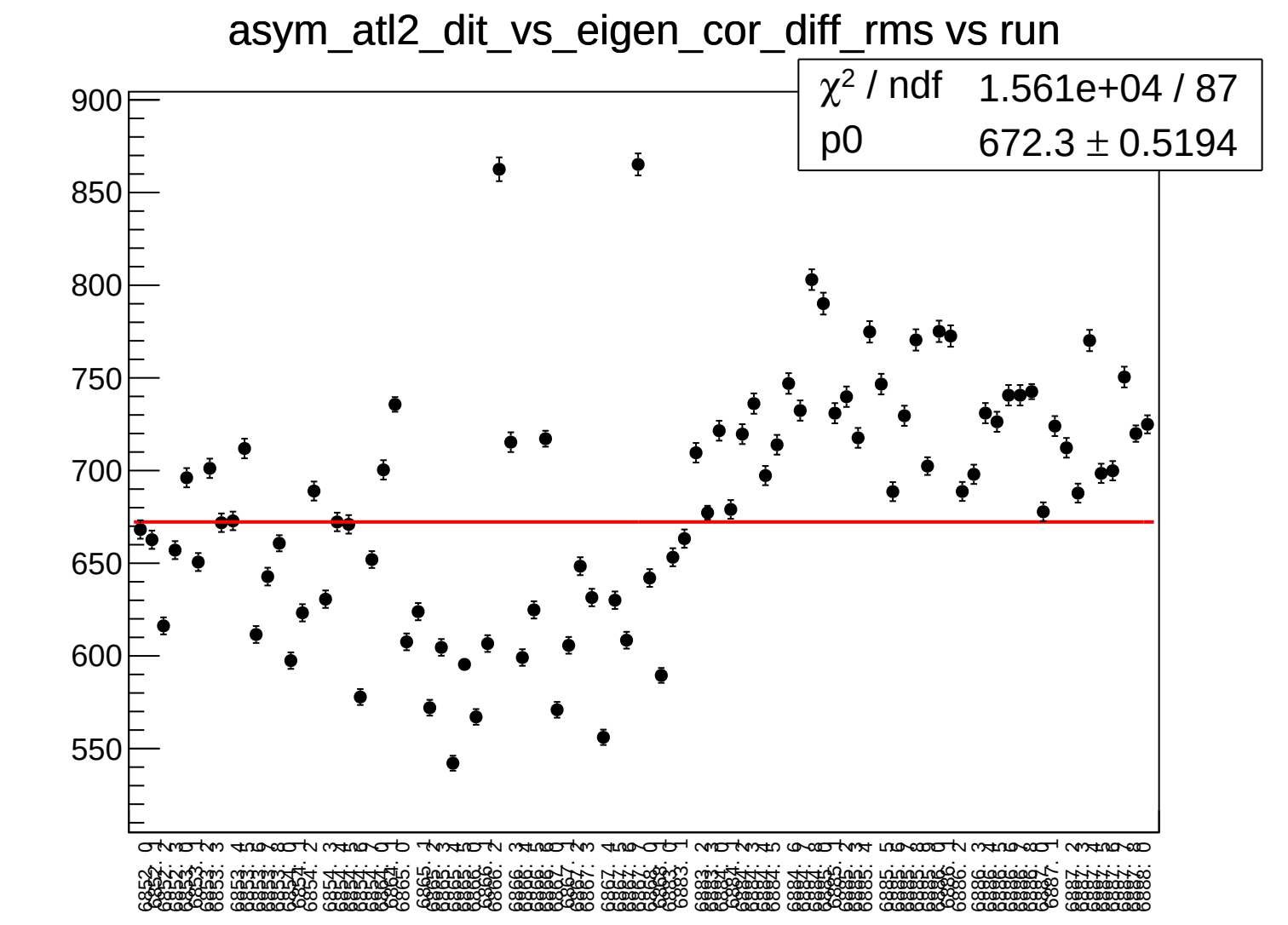

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 75.79 / 87
p0 −0.5849 ± 0.7345
pull
Entries 88
Mean −30.65
Std Dev 0

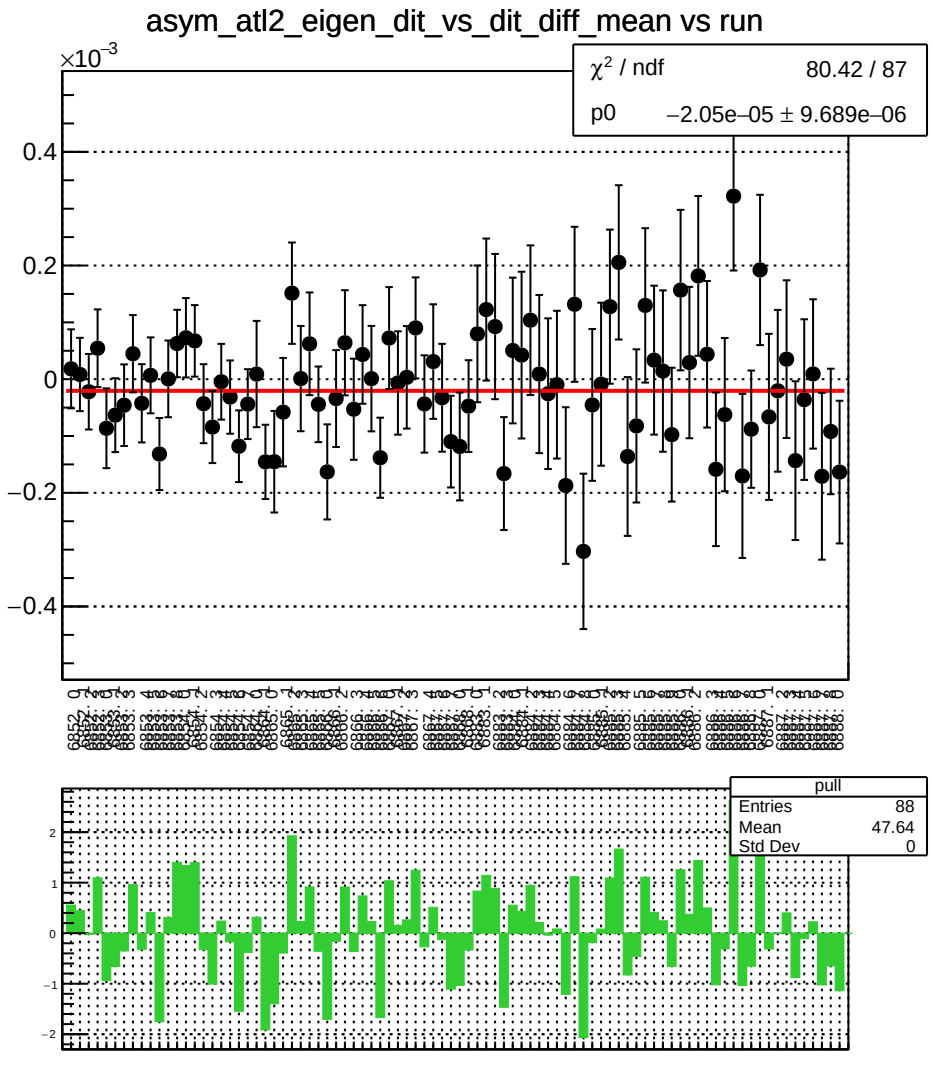

pull1D
Entries 88
Mean 0.002171
Std Dev 0.928

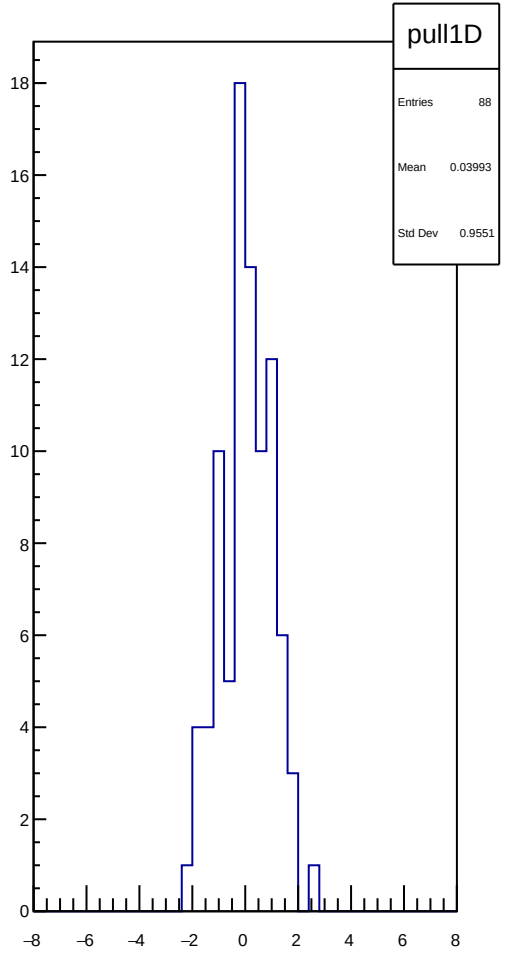

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.561e+04 / 87
p0 672.3 ± 0.5194
900
850
800
750
700
650
600
550

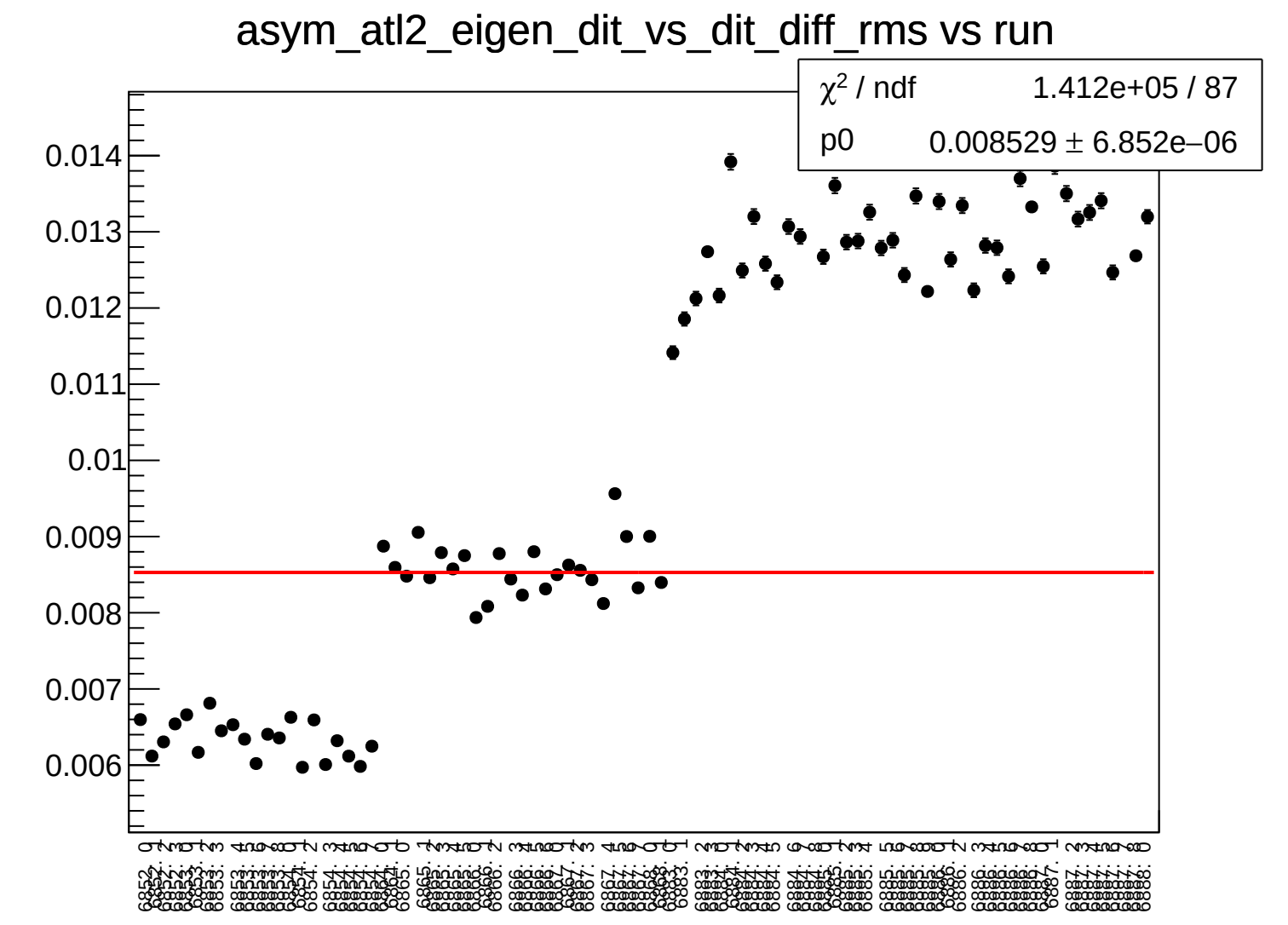

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.79 / 87
p0 −0.5849 ± 0.7345
pull
Entries 88
Mean −30.65
Std Dev 0

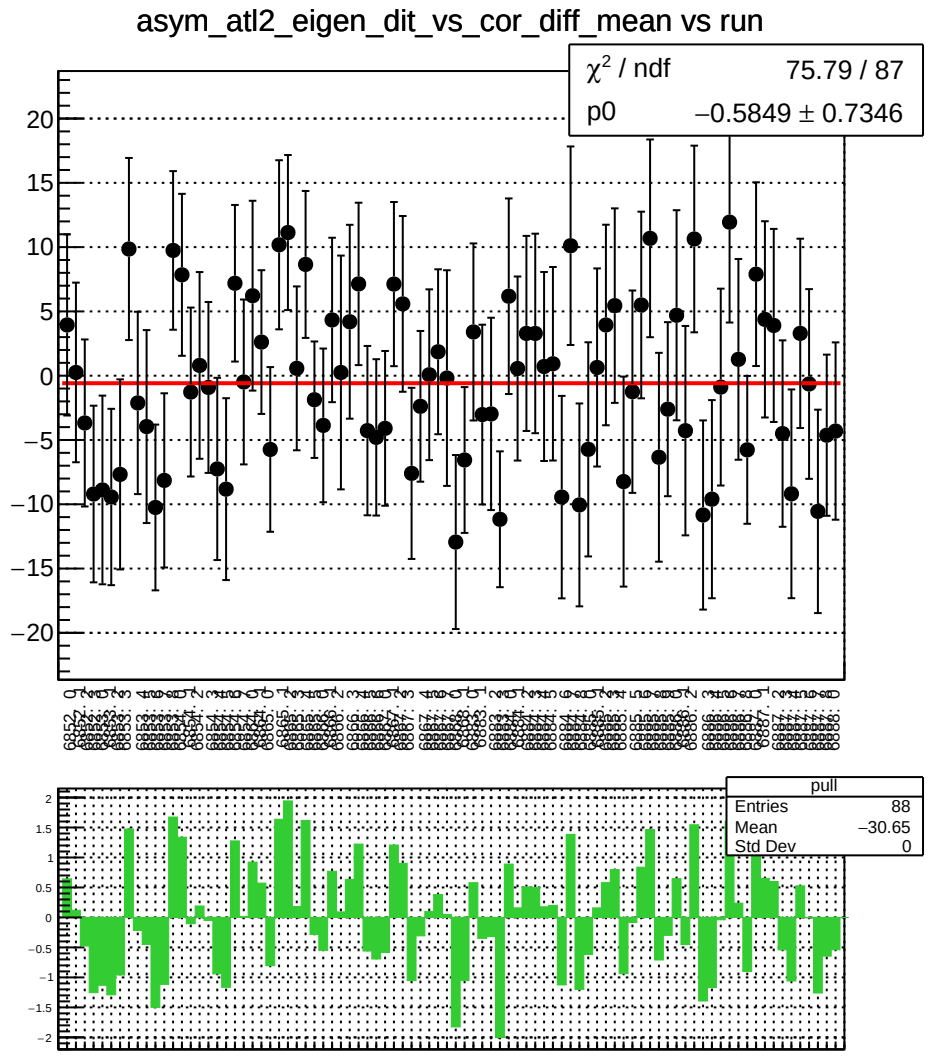

pull1D
Entries 88
Mean 0.002171
Std Dev 0.928

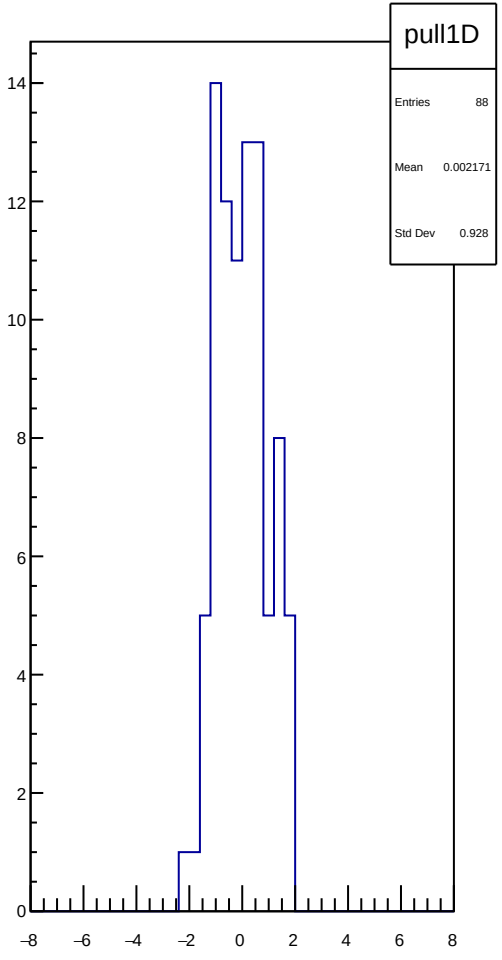

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.561e+04 / 87
p0 672.3 ± 0.5194
900
850
800
750
700
650
600
550

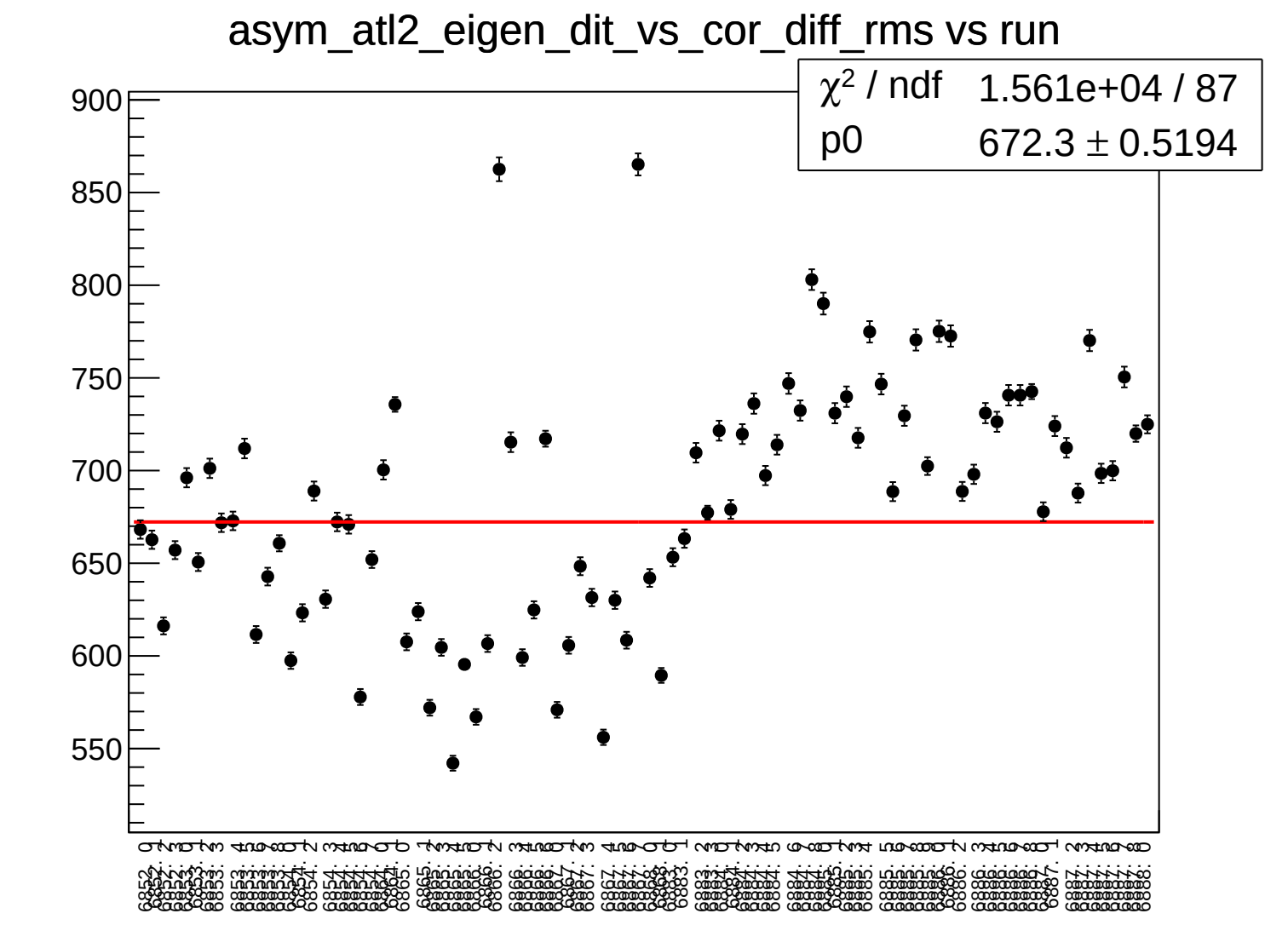

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.42 / 87
p0 −2.05e−05 ± 9.689e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean 47.64
Std Dev 0
2
1
0
−1
−2

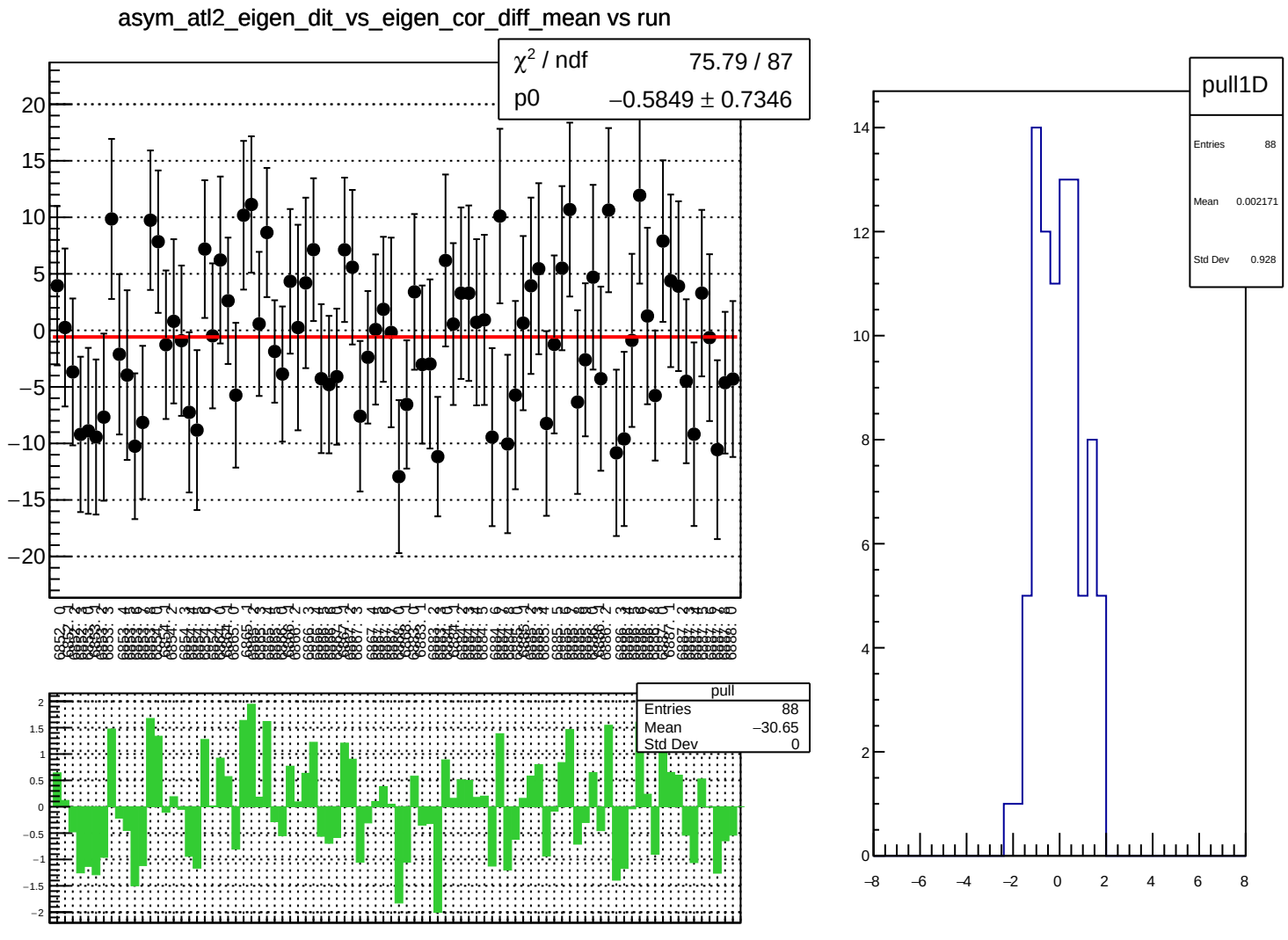

pull1D
Entries 88
Mean 0.03993
Std Dev 0.9551
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

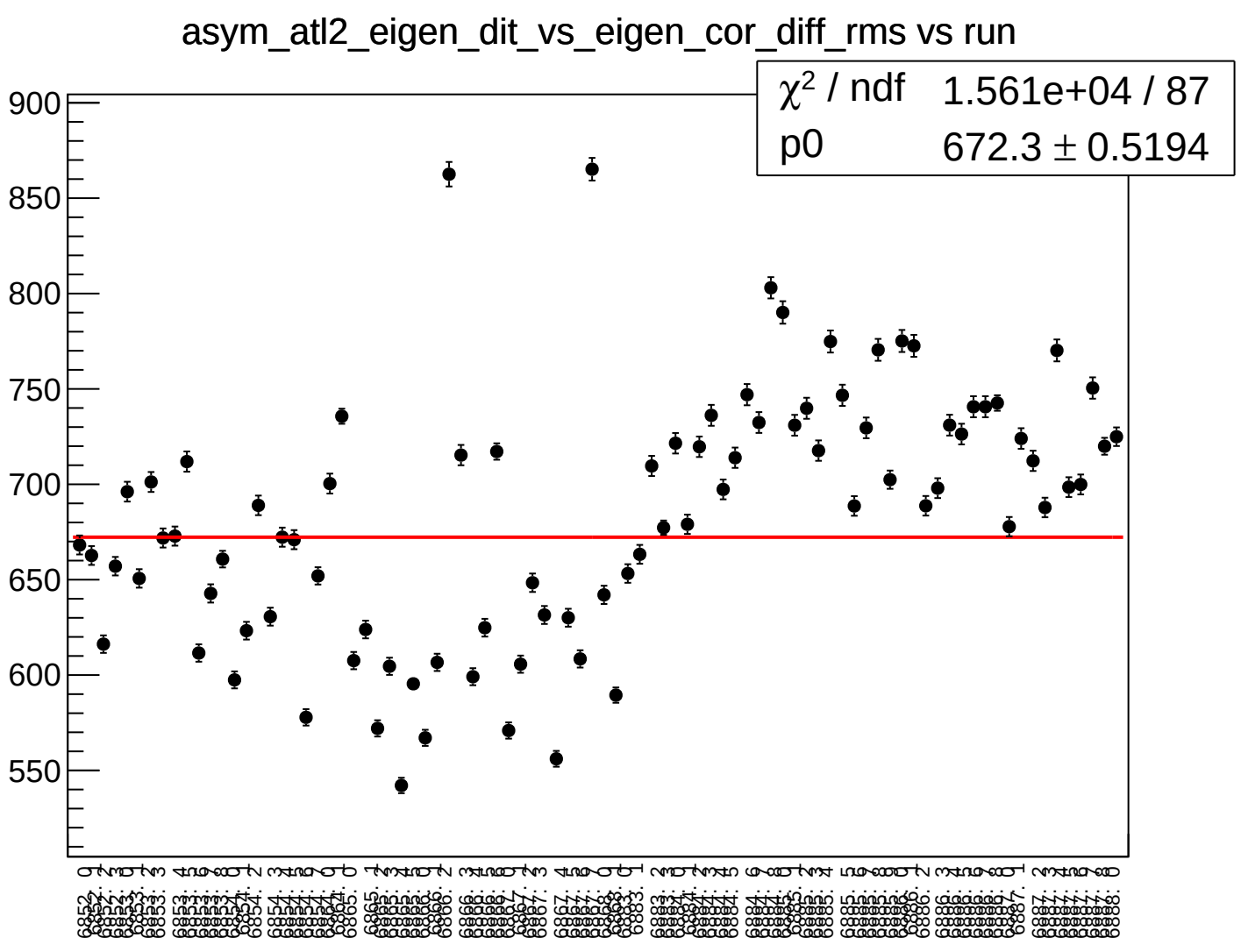

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.412e+05 / 87
p0 0.008529 ± 6.852e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

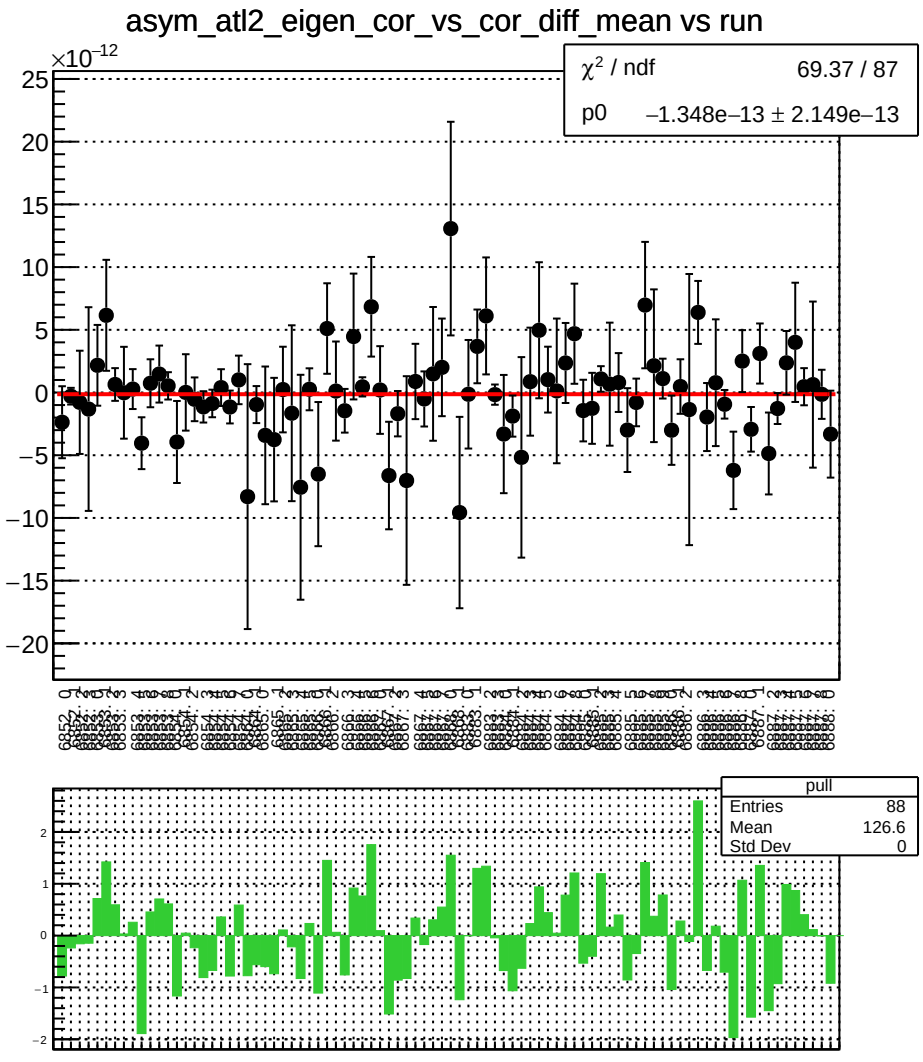

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.79 / 87
p0 −0.5849 ± 0.7346
pull
Entries 88
Mean −30.65
Std Dev 0

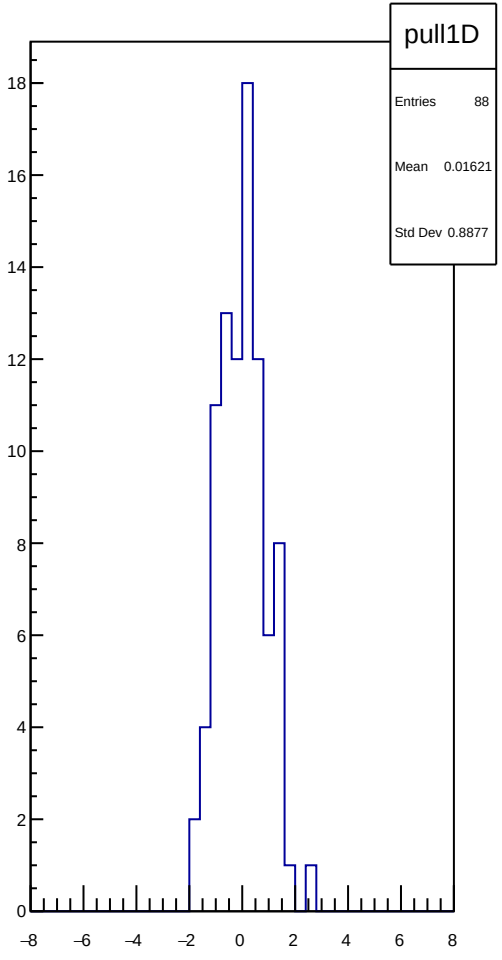

pull1D
Entries 88
Mean 0.002171
Std Dev 0.928

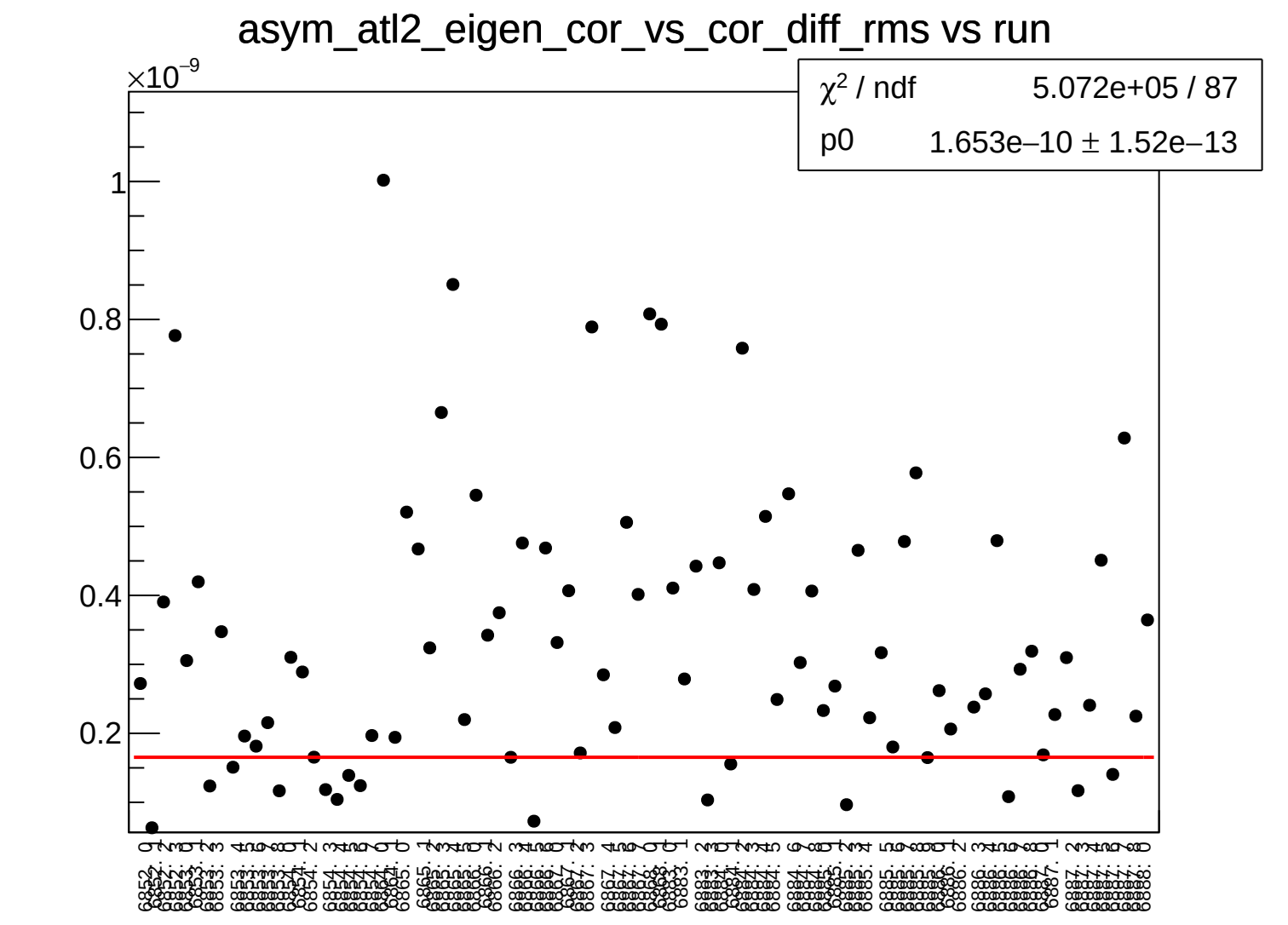

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.561e+04 / 87
p0 672.3 ± 0.5194
900
850
800
750
700
650
600
550

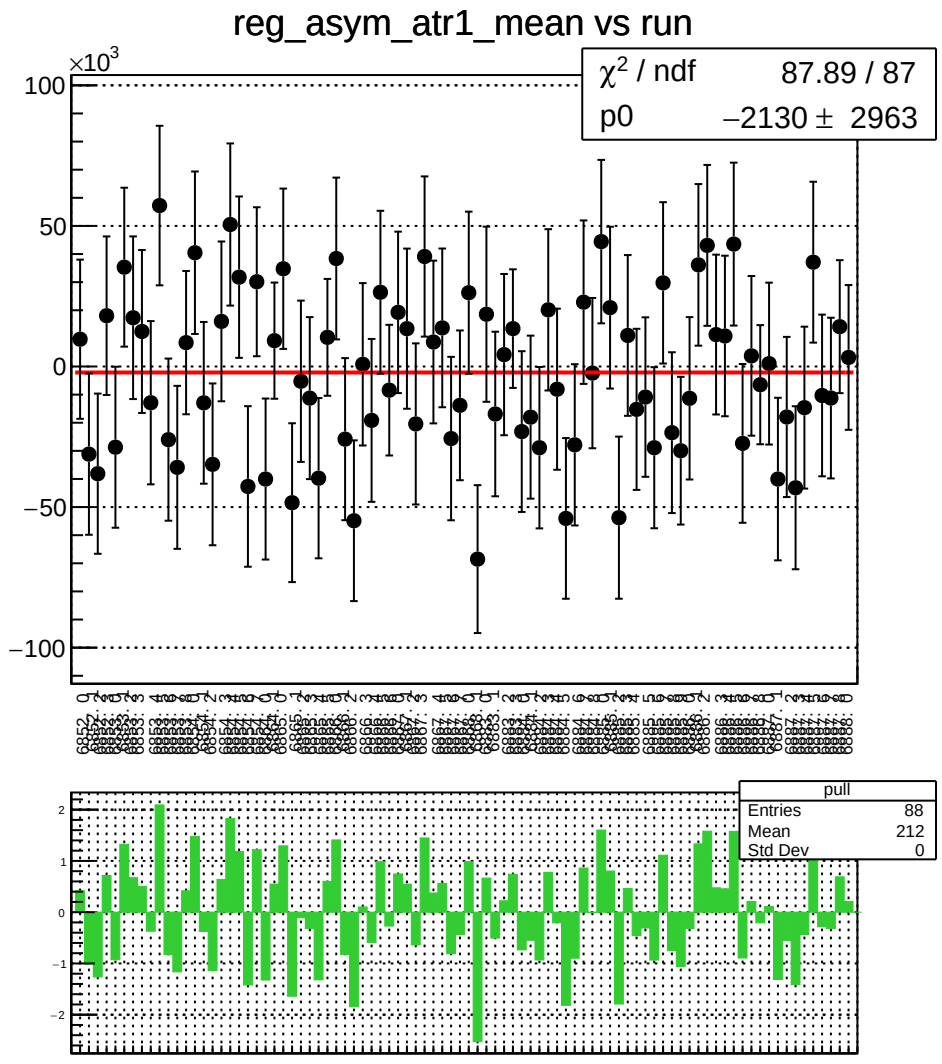

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.79 / 87
p0 −0.5849 ± 0.7346
pull
Entries 88
Mean −30.65
Std Dev 0
pull1D
Entries 88
Mean 0.002171
Std Dev 0.928

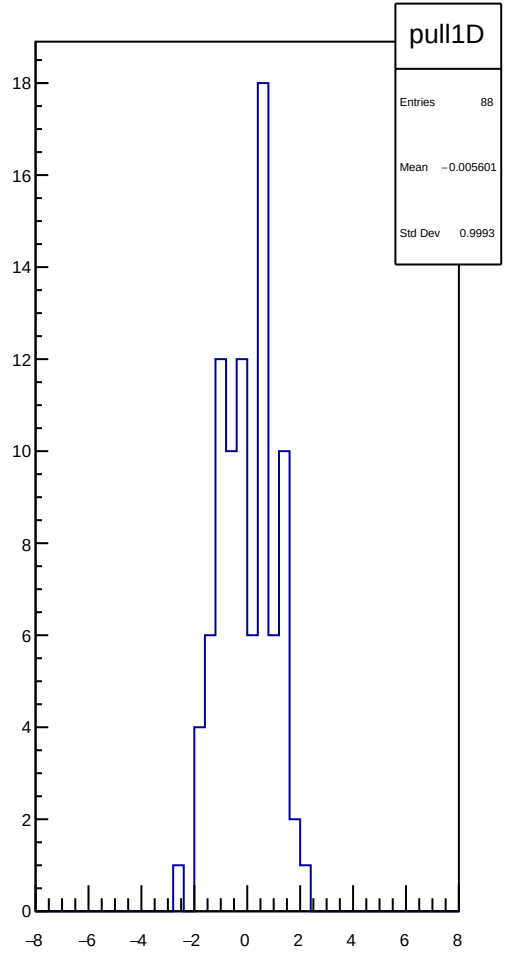

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.561e+04 / 87
p0 672.3 ± 0.5194
900
850
800
750
700
650
600
550

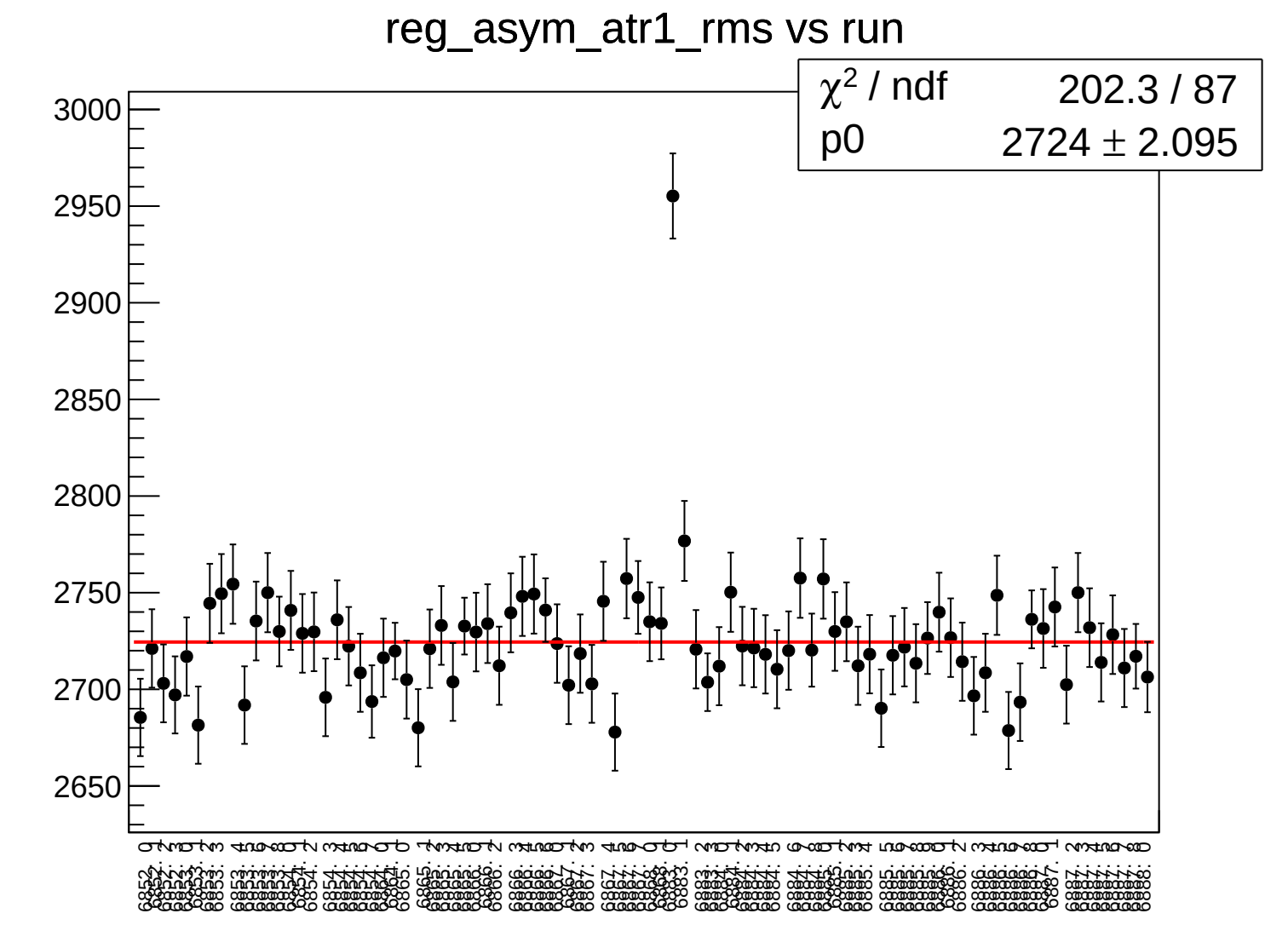

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.37 / 87
p0 −1.348e−13 ± 2.149e−13
pull
Entries 88
Mean 126.6
Std Dev 0

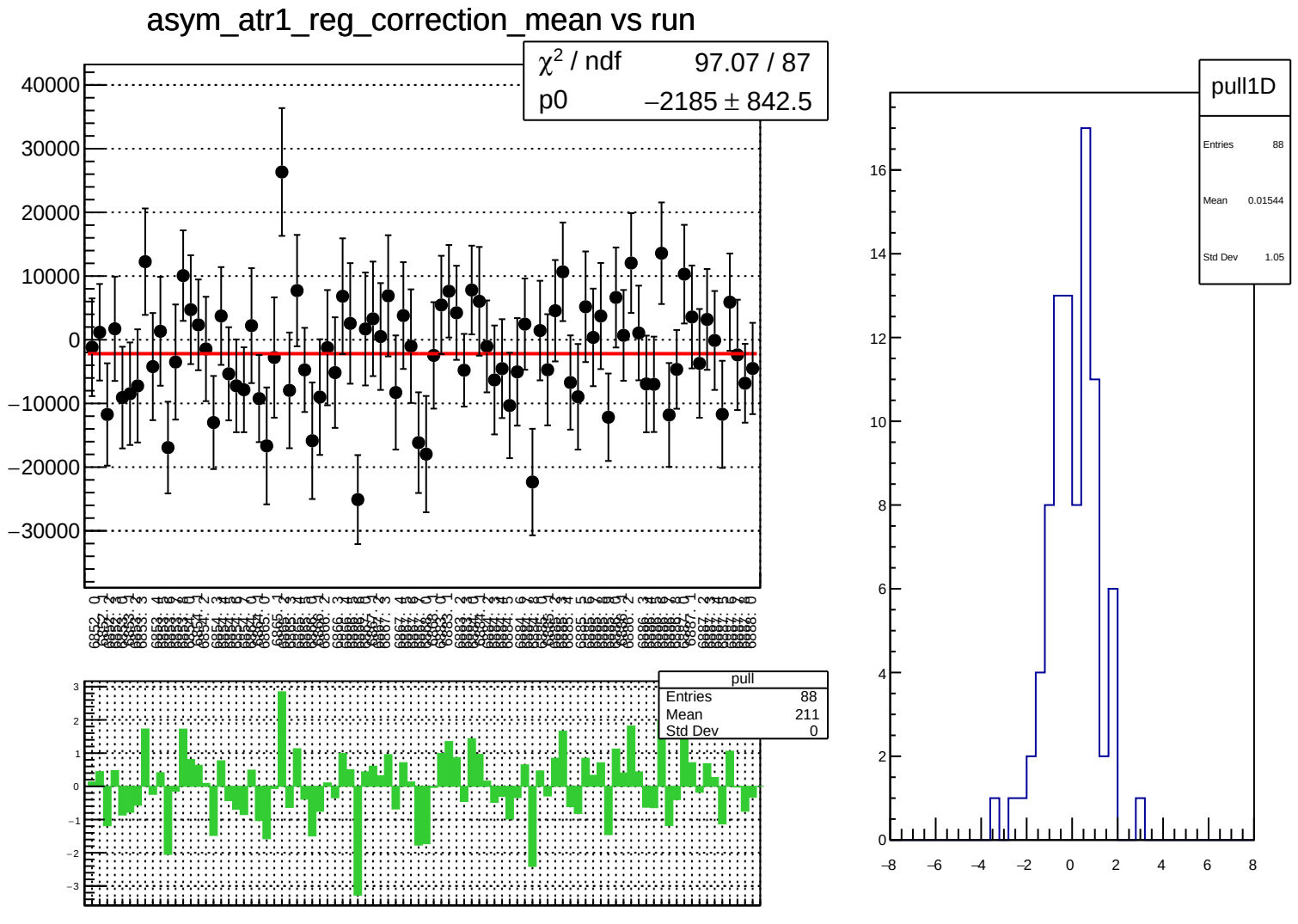

pull1D
Entries 88
Mean 0.01621
Std Dev 0.8877

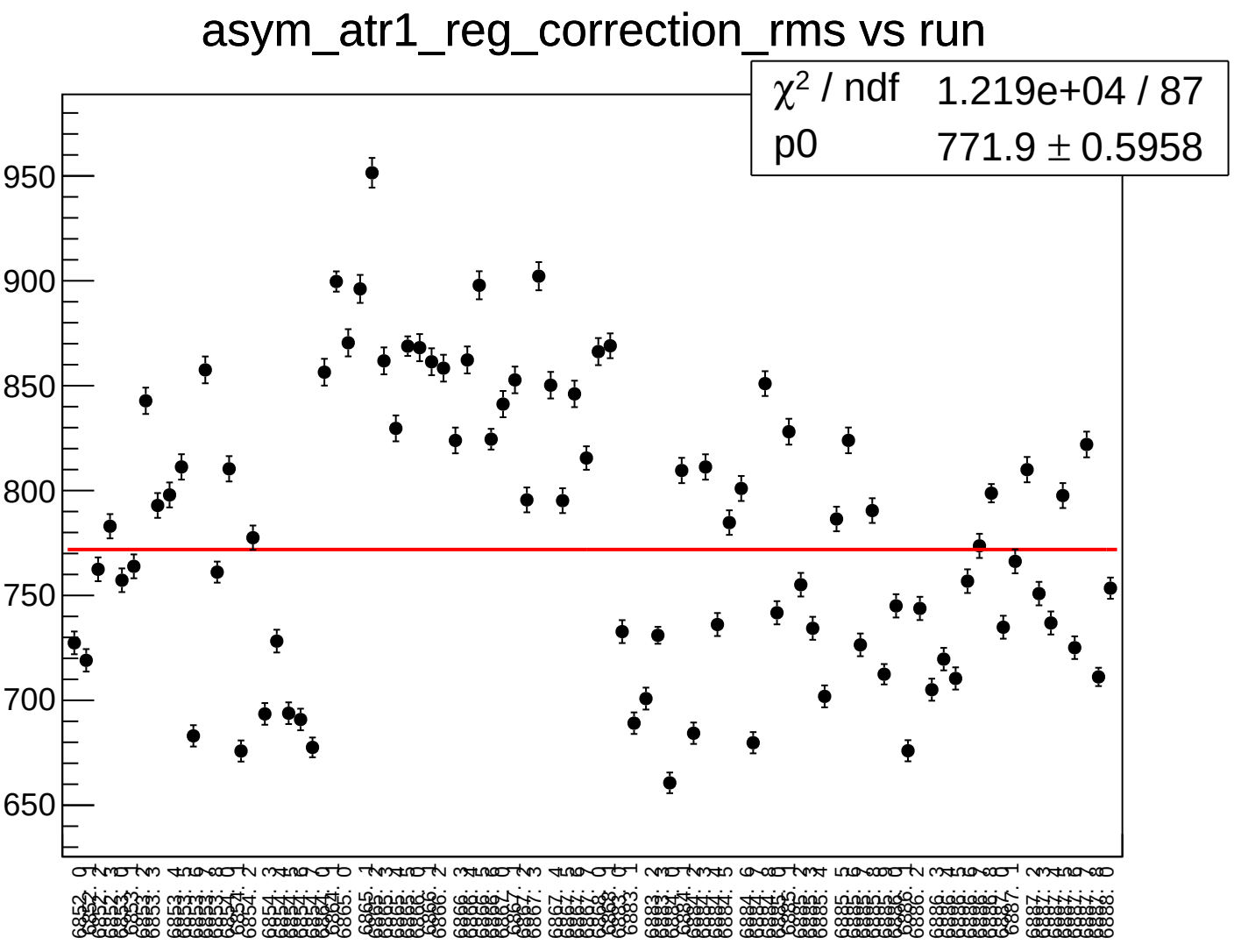

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.072e+05 / 87
p0 1.653e−10 ± 1.52e−13
1
0.8
0.6
0.4
0.2

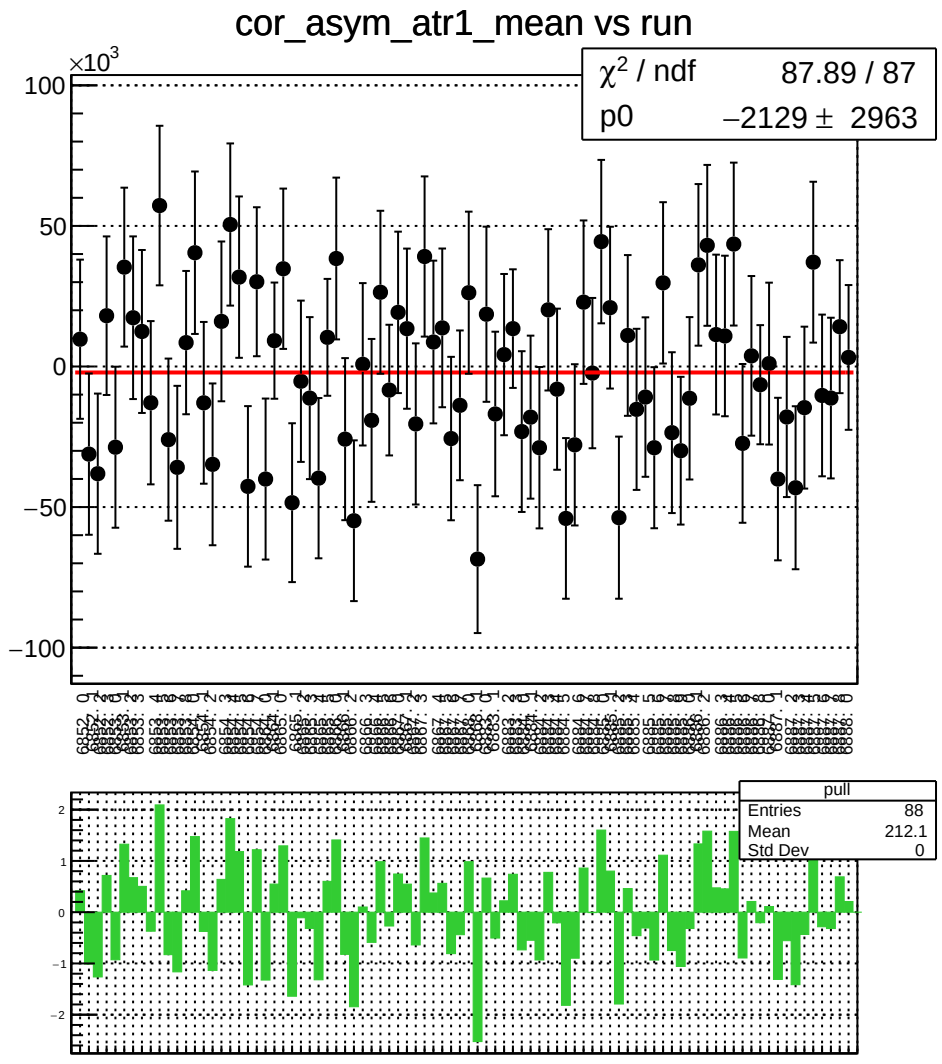

reg_asym_atr1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 87.89 / 87
p0 −2130 ± 2963
pull
Entries 88
Mean 212
Std Dev 0
2
1
0
−1
−2

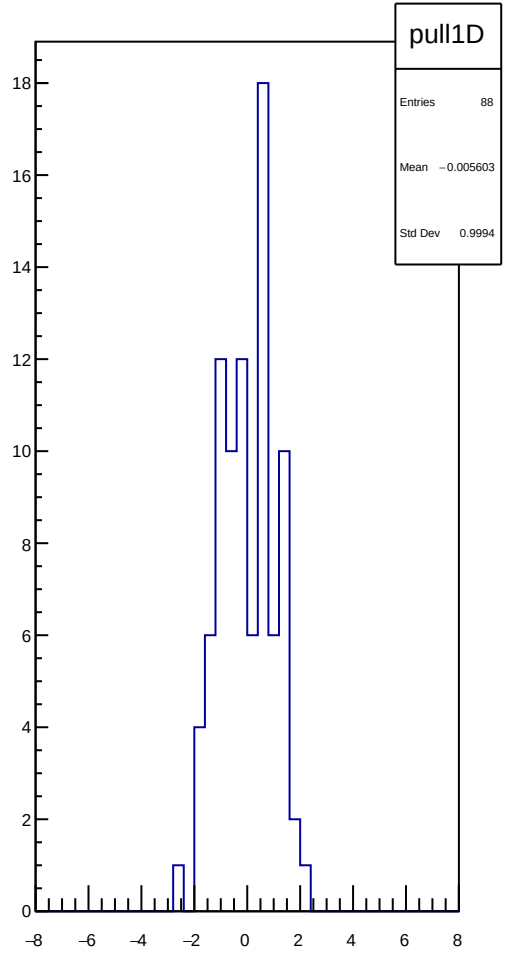

pull1D
Entries 88
Mean −0.005601
Std Dev 0.9993
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

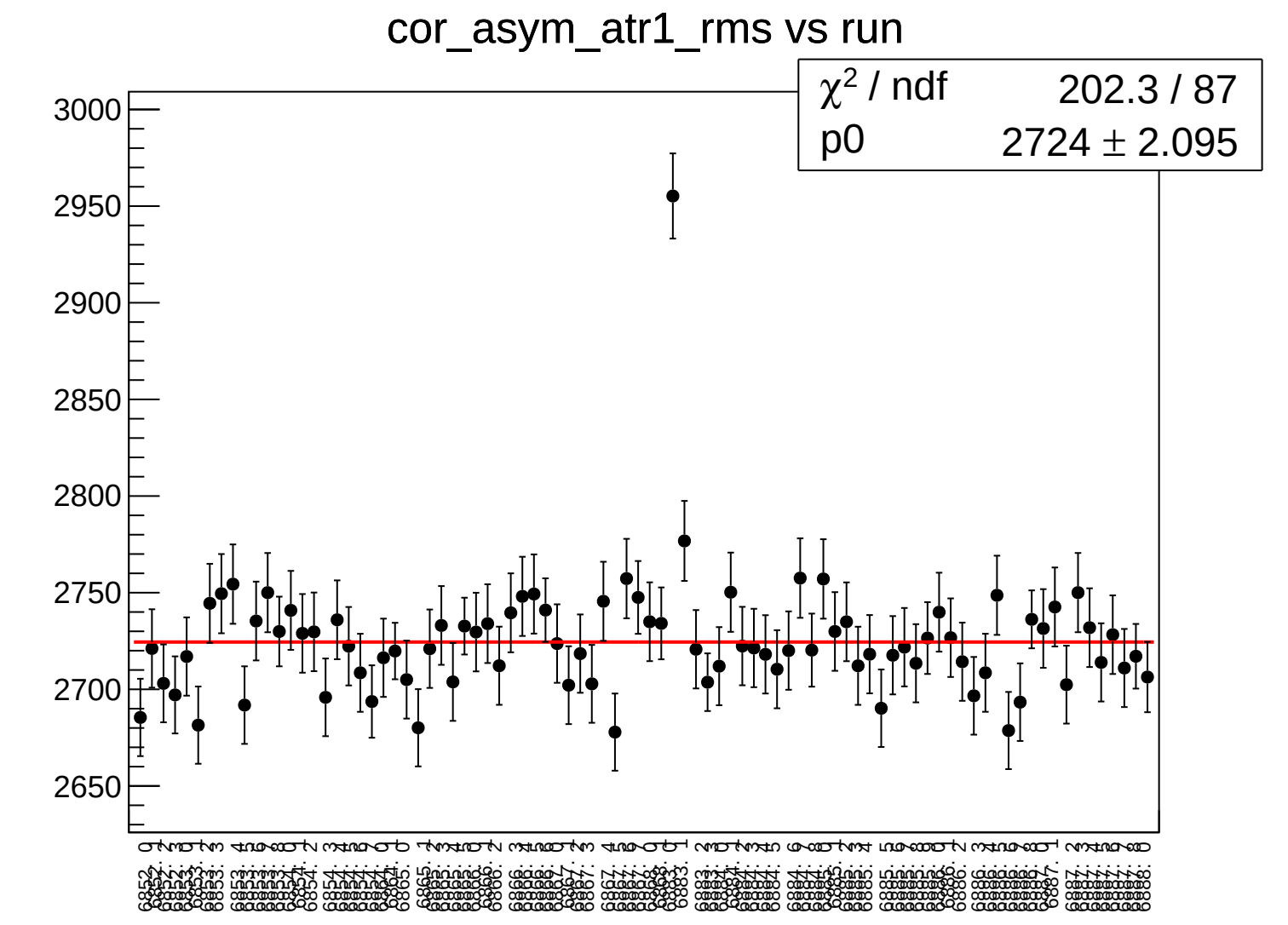

reg_asym_atr1_rms vs run
χ² / ndf 202.3 / 87
p0 2724 ± 2.095
3000
2950
2900
2850
2800
2750
2700
2650

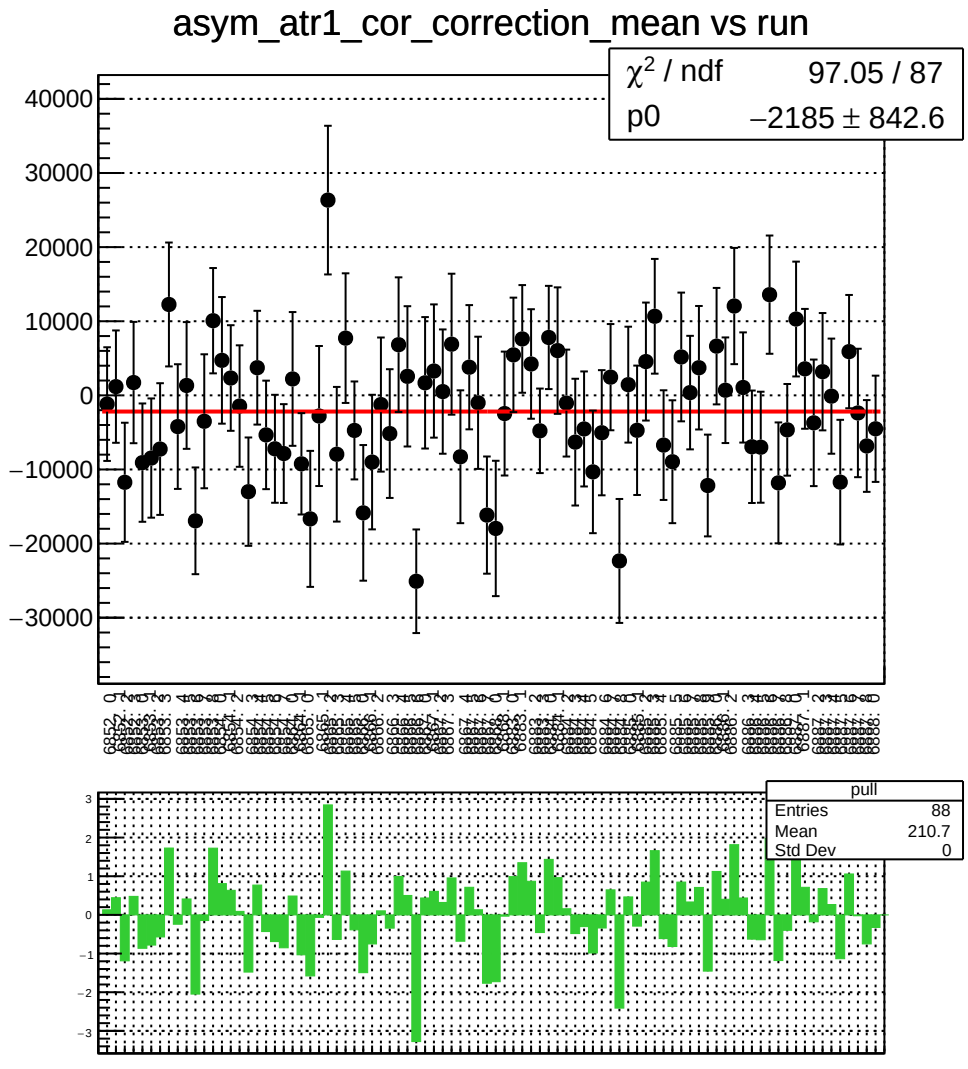

asym_atr1_reg_correction_mean vs run
χ² / ndf 97.07 / 87
p0 −2185 ± 842.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 211
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01544
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

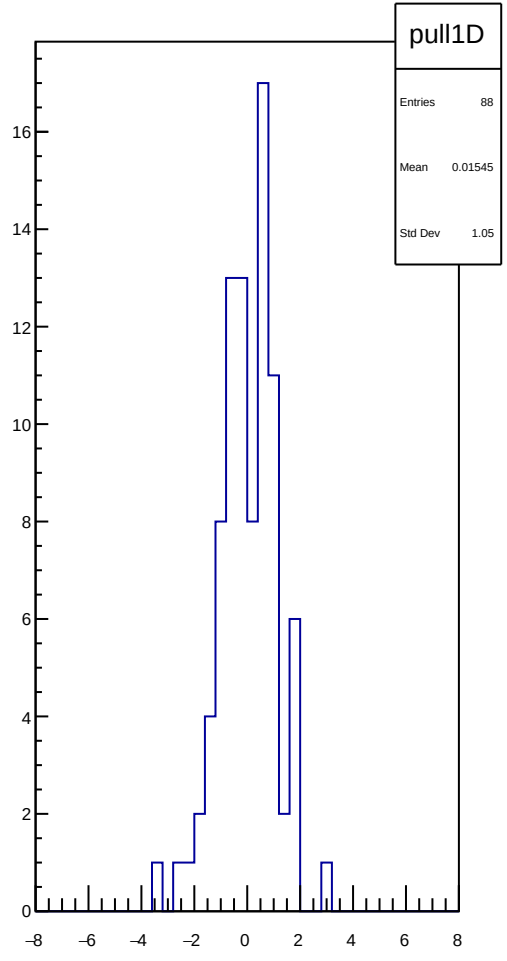

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.219e+04 / 87
p0 771.9 ± 0.5958
950
900
850
800
750
700
650

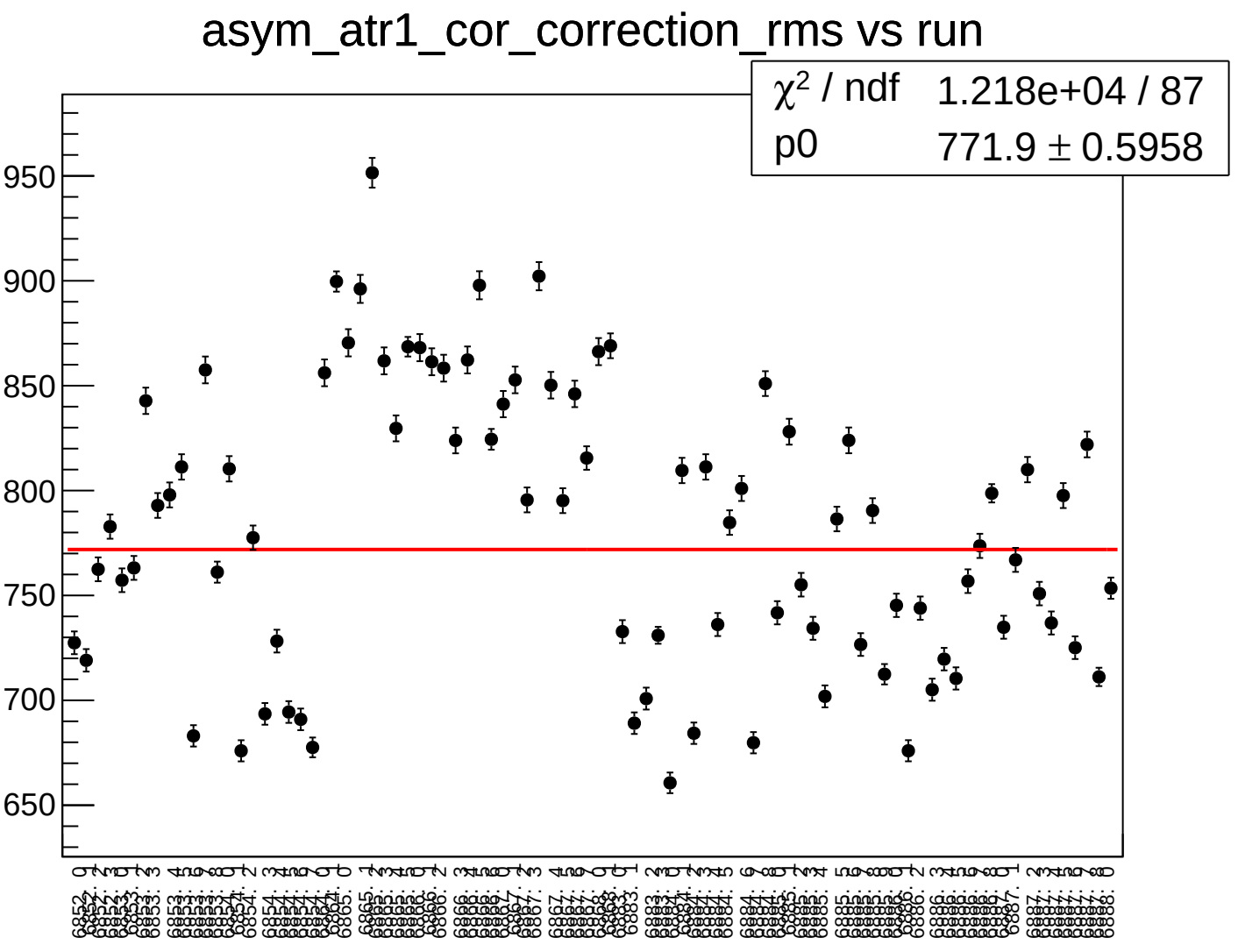

cor_asym_atr1_mean vs run
×10^3
χ² / ndf 87.89 / 87
p0 −2129 ± 2963
100
50
0
−50
−100
pull
Entries 88
Mean 212.1
Std Dev 0
2
1
0
−1
−2

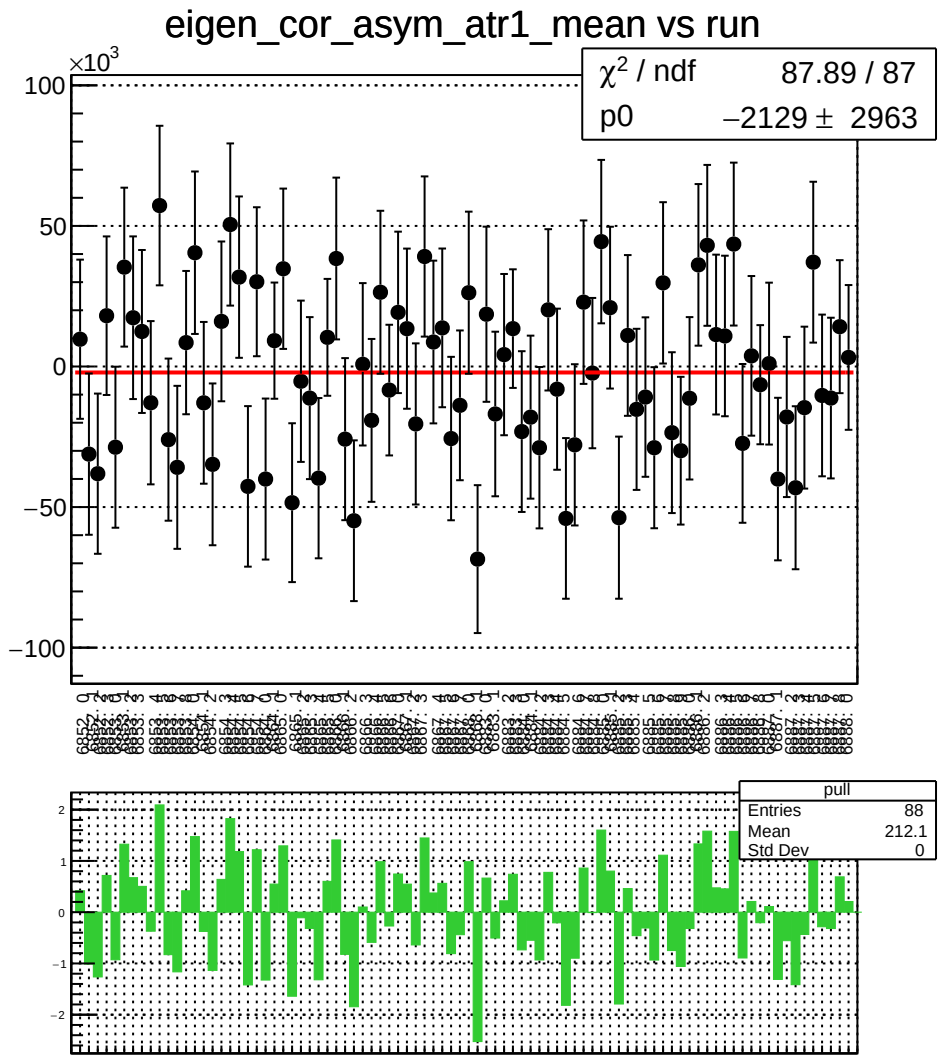

pull1D
Entries 88
Mean −0.005603
Std Dev 0.9994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

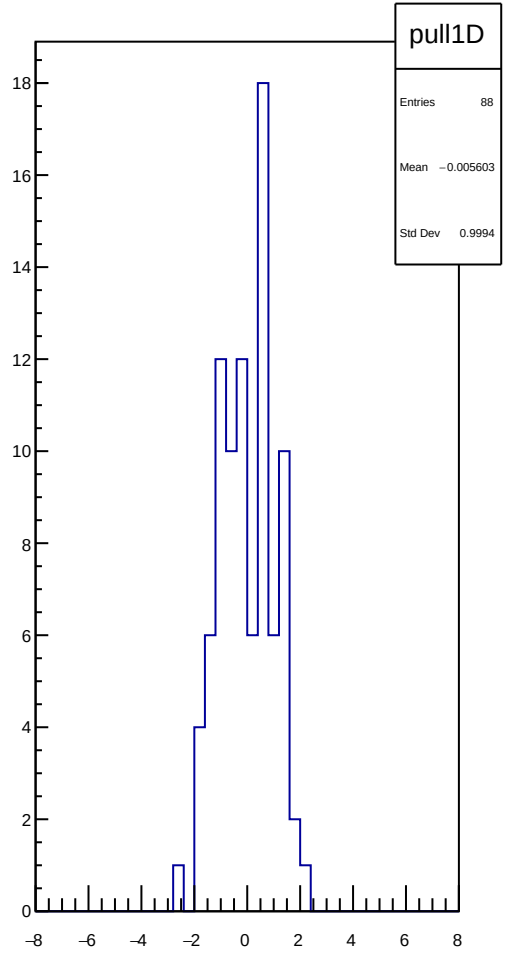

cor_asym_atr1_rms vs run
χ² / ndf 202.3 / 87
p0 2724 ± 2.095
3000
2950
2900
2850
2800
2750
2700
2650

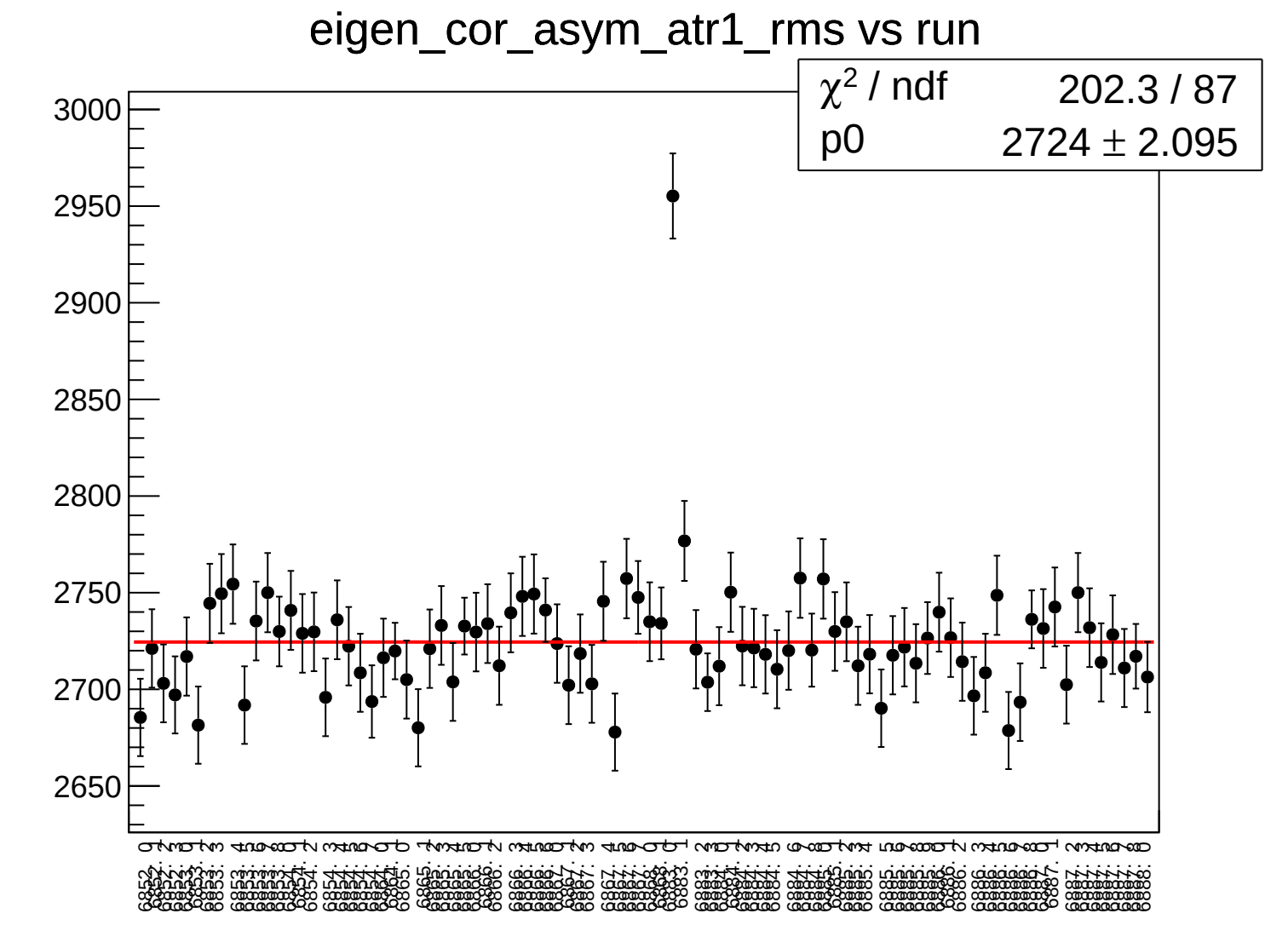

asym_atr1_cor_correction_mean vs run
χ² / ndf 97.05 / 87
p0 −2185 ± 842.6
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 210.7
Std Dev 0
3
2
1
0
−1
−2
−3

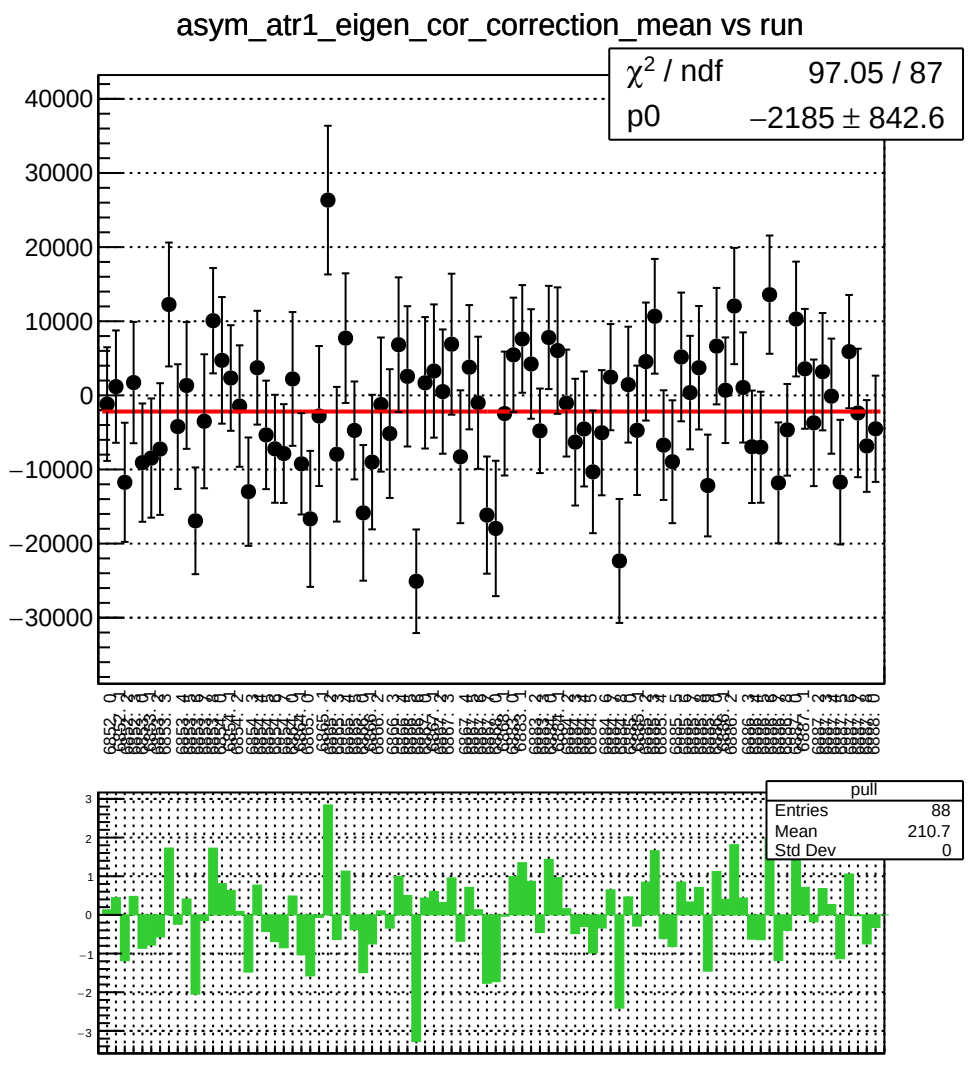

pull1D
Entries 88
Mean 0.01545
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

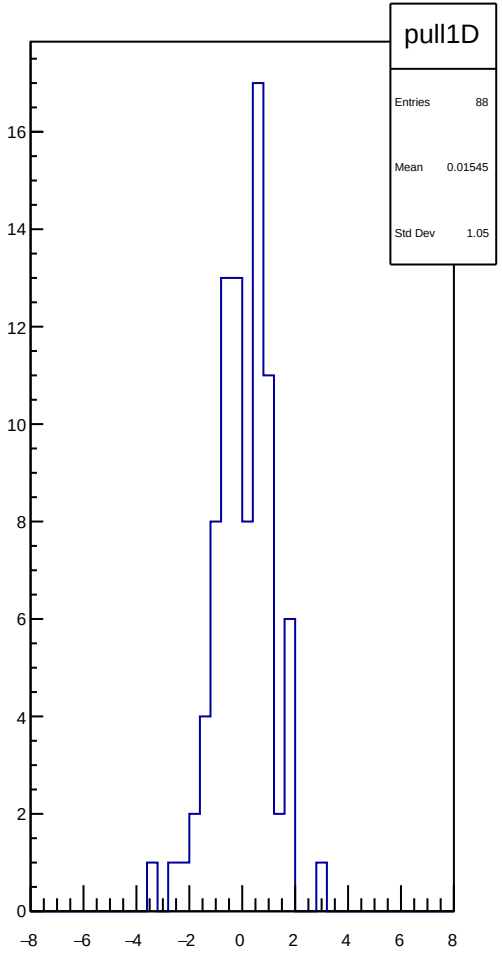

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.218e+04 / 87
p0 771.9 ± 0.5958
950
900
850
800
750
700
650

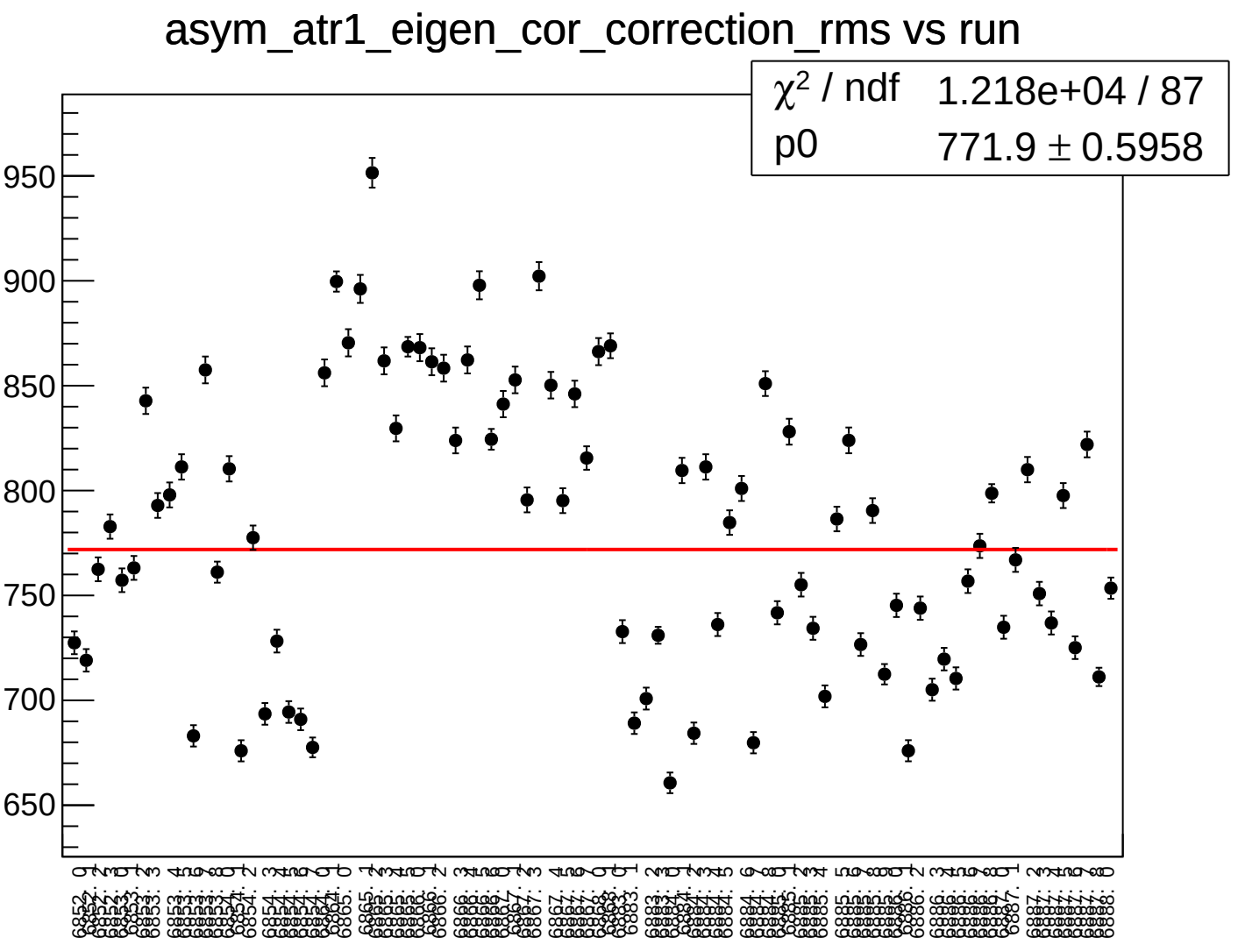

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 87.89 / 87
p0 −2129 ± 2963
100
50
0
−50
−100
pull
Entries 88
Mean 212.1
Std Dev 0
2
1
0
−1
−2

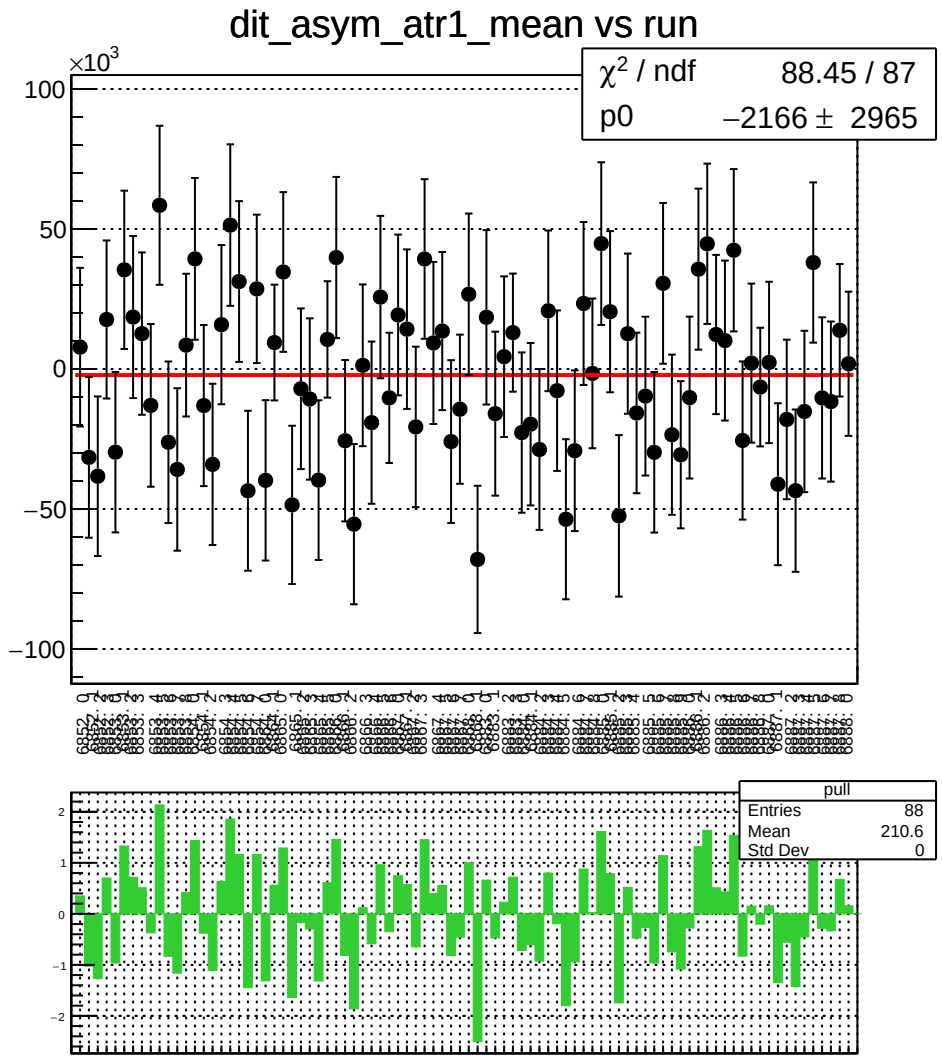

pull1D
Entries 88
Mean −0.005603
Std Dev 0.9994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

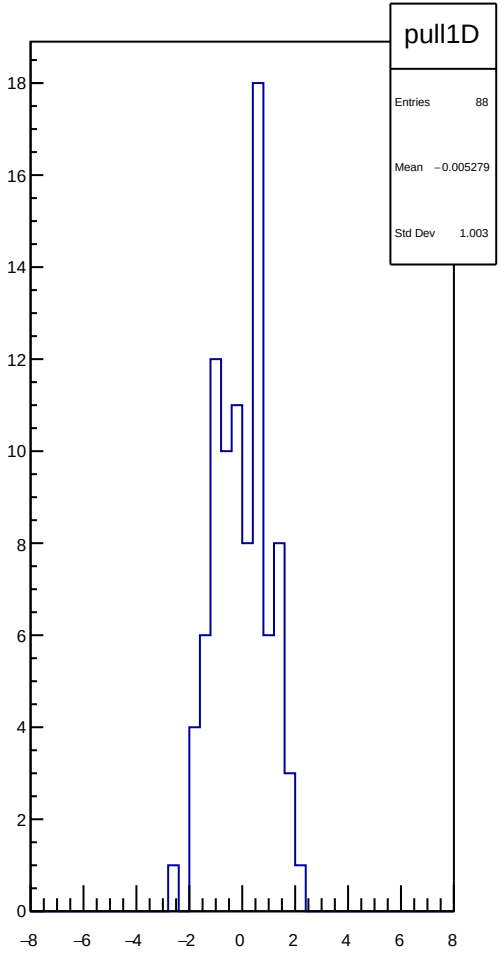

eigen_cor_asym_atr1_rms vs run
χ² / ndf 202.3 / 87
p0 2724 ± 2.095
3000
2950
2900
2850
2800
2750
2700
2650

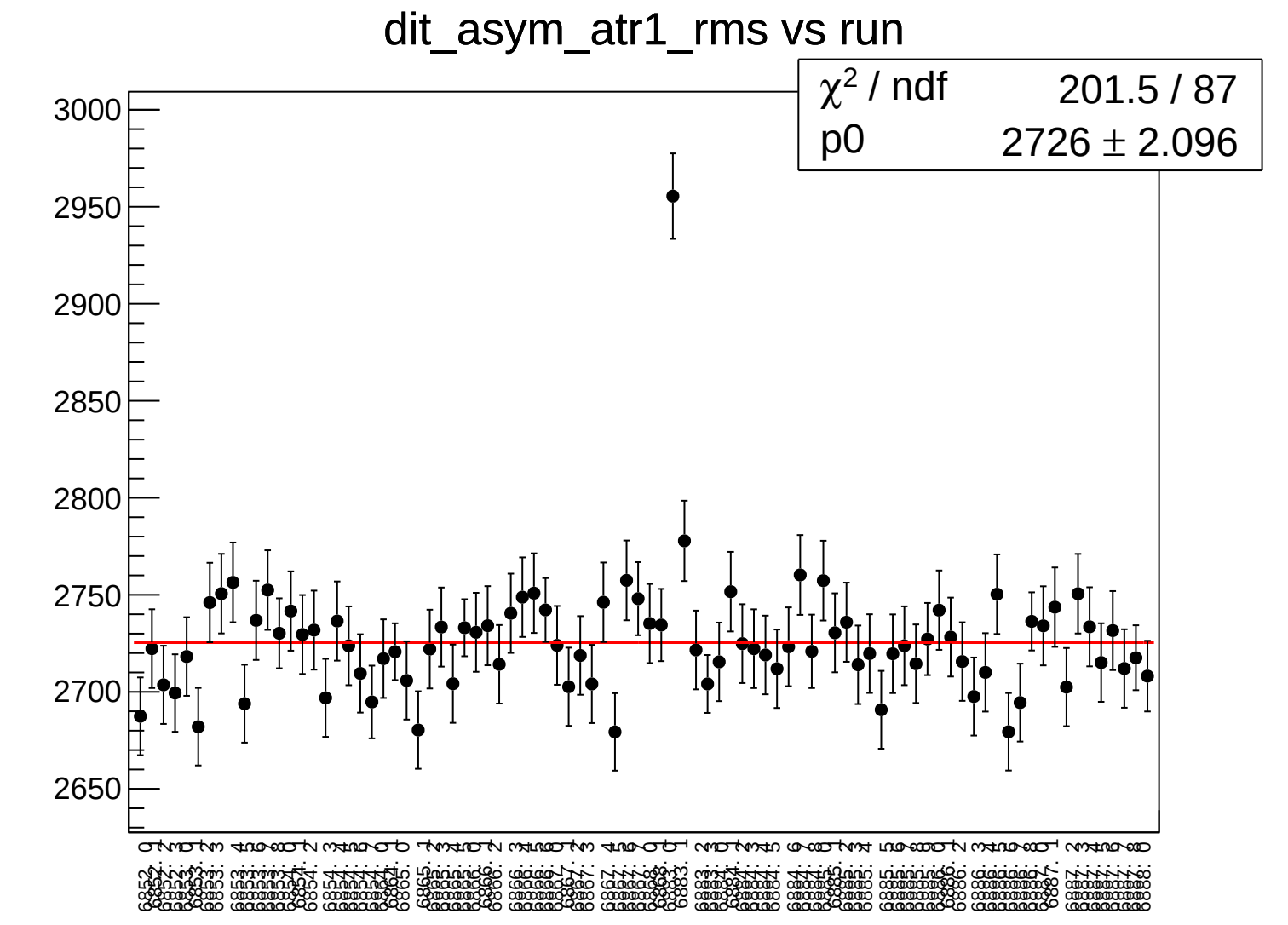

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 97.05 / 87
p0 −2185 ± 842.6
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 210.7
Std Dev 0
3
2
1
0
−1
−2
−3

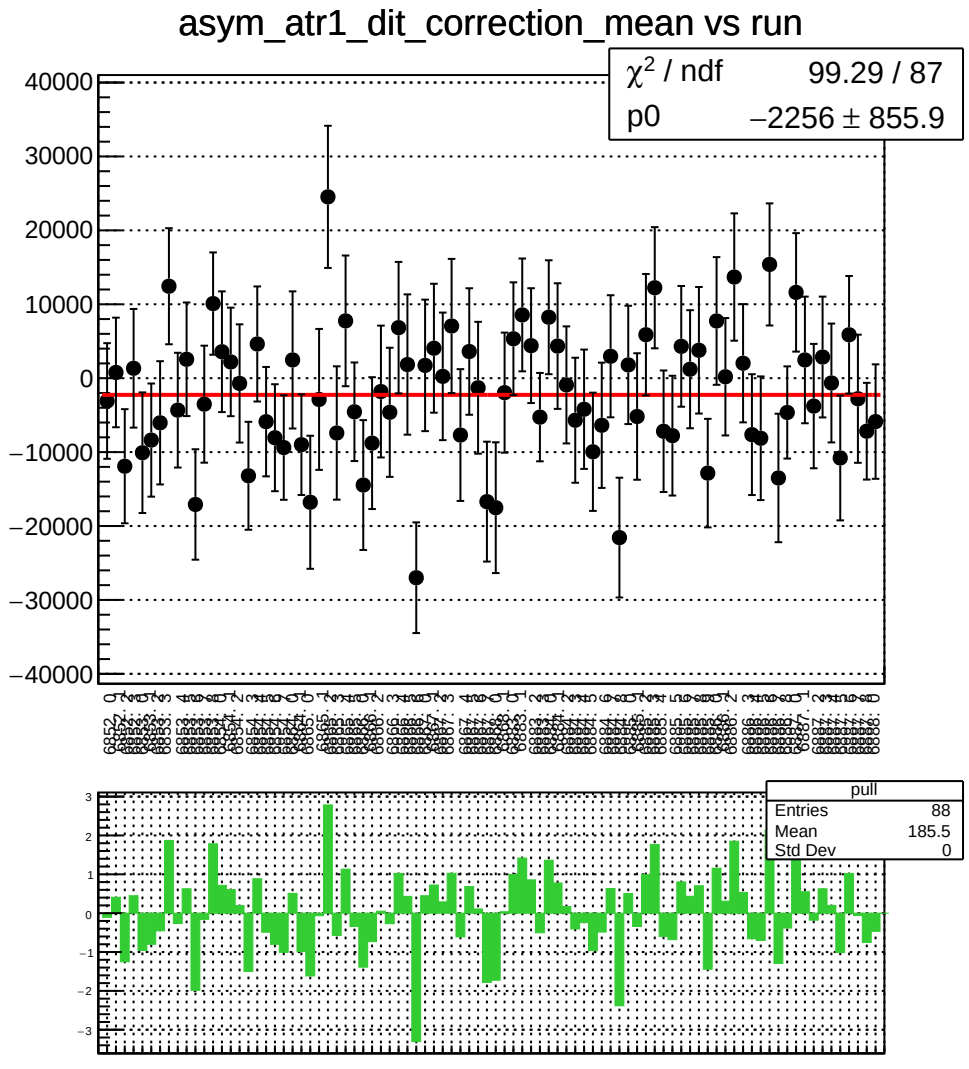

pull1D
Entries 88
Mean 0.01545
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

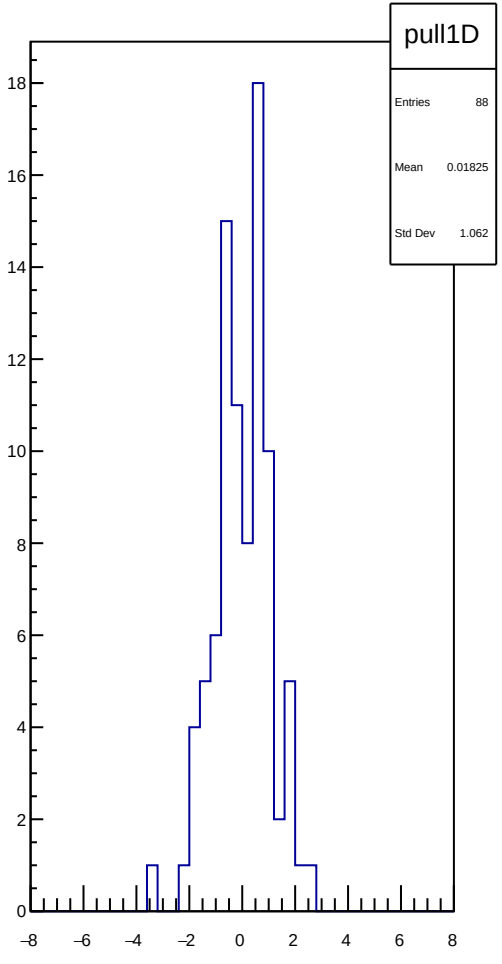

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.218e+04 / 87
p0 771.9 ± 0.5958
950
900
850
800
750
700
650

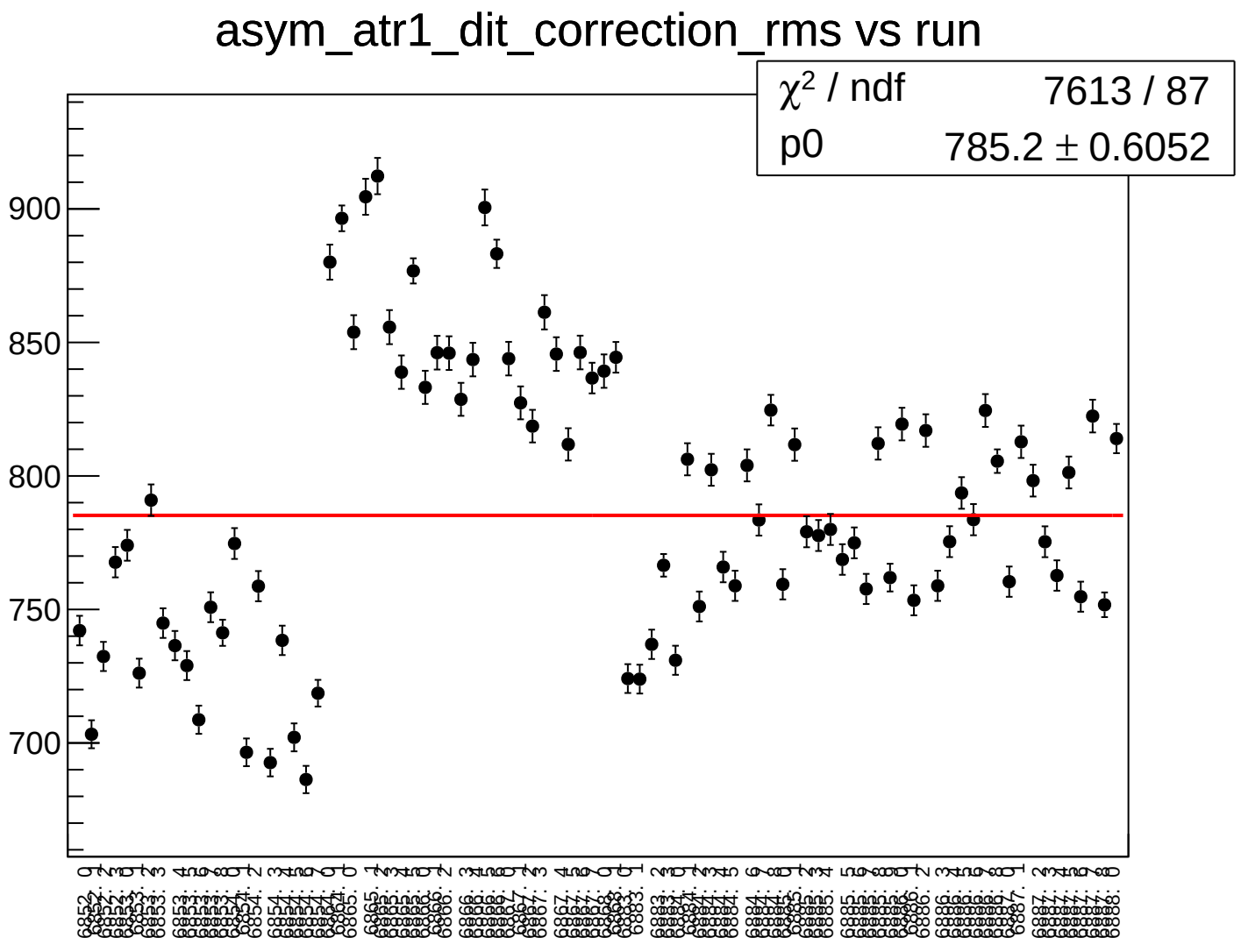

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 88.45 / 87
p0 −2166 ± 2965
pull
Entries 88
Mean 210.6
Std Dev 0

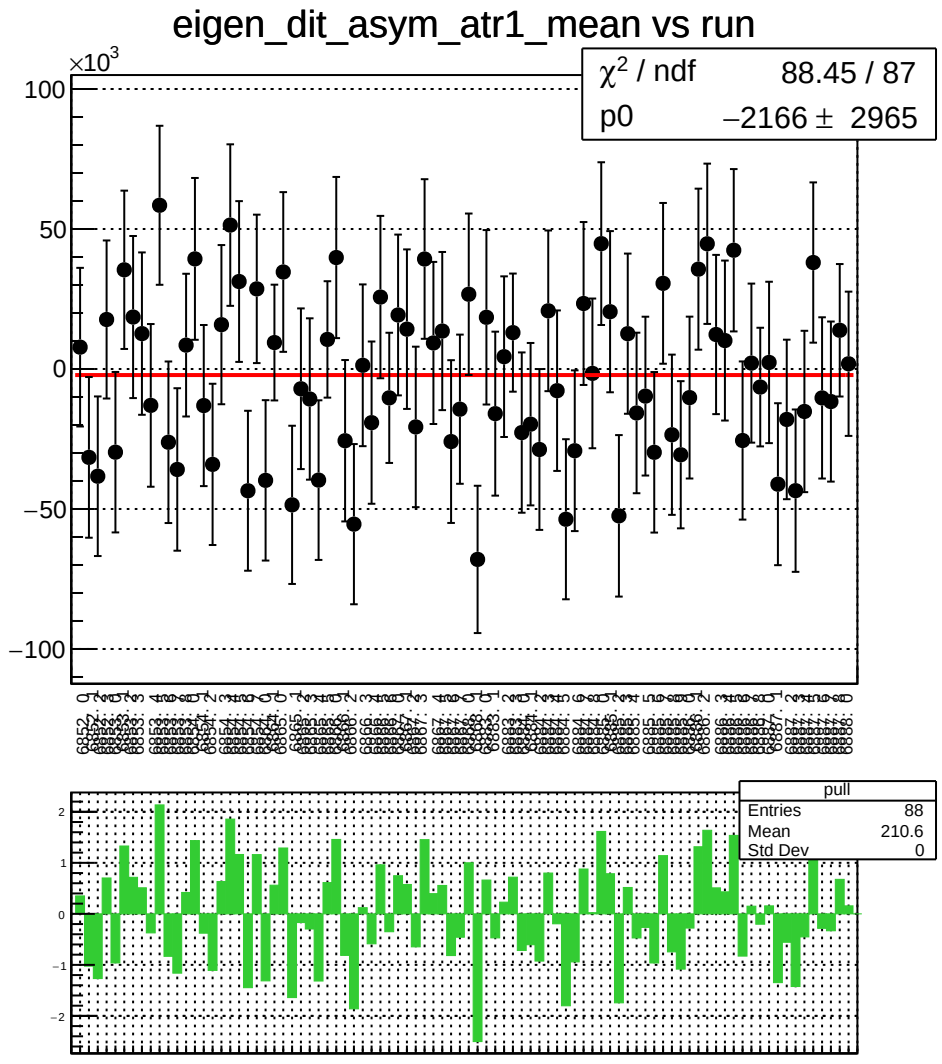

pull1D
Entries 88
Mean −0.005279
Std Dev 1.003

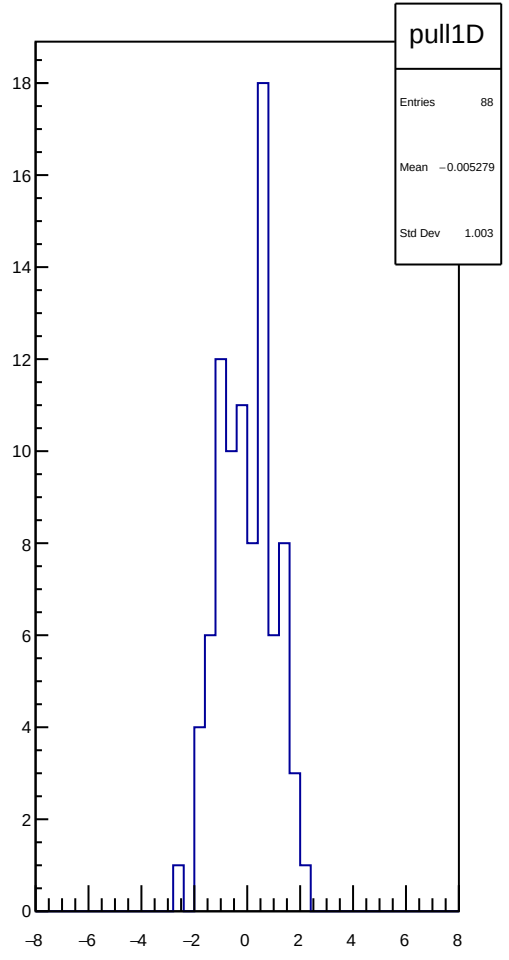

dit_asym_atr1_rms vs run
χ² / ndf 201.5 / 87
p0 2726 ± 2.096
3000
2950
2900
2850
2800
2750
2700
2650


asym_atr1_dit_correction_mean vs run
χ² / ndf 99.29 / 87
p0 −2256 ± 855.9
pull
Entries 88
Mean 185.5
Std Dev 0

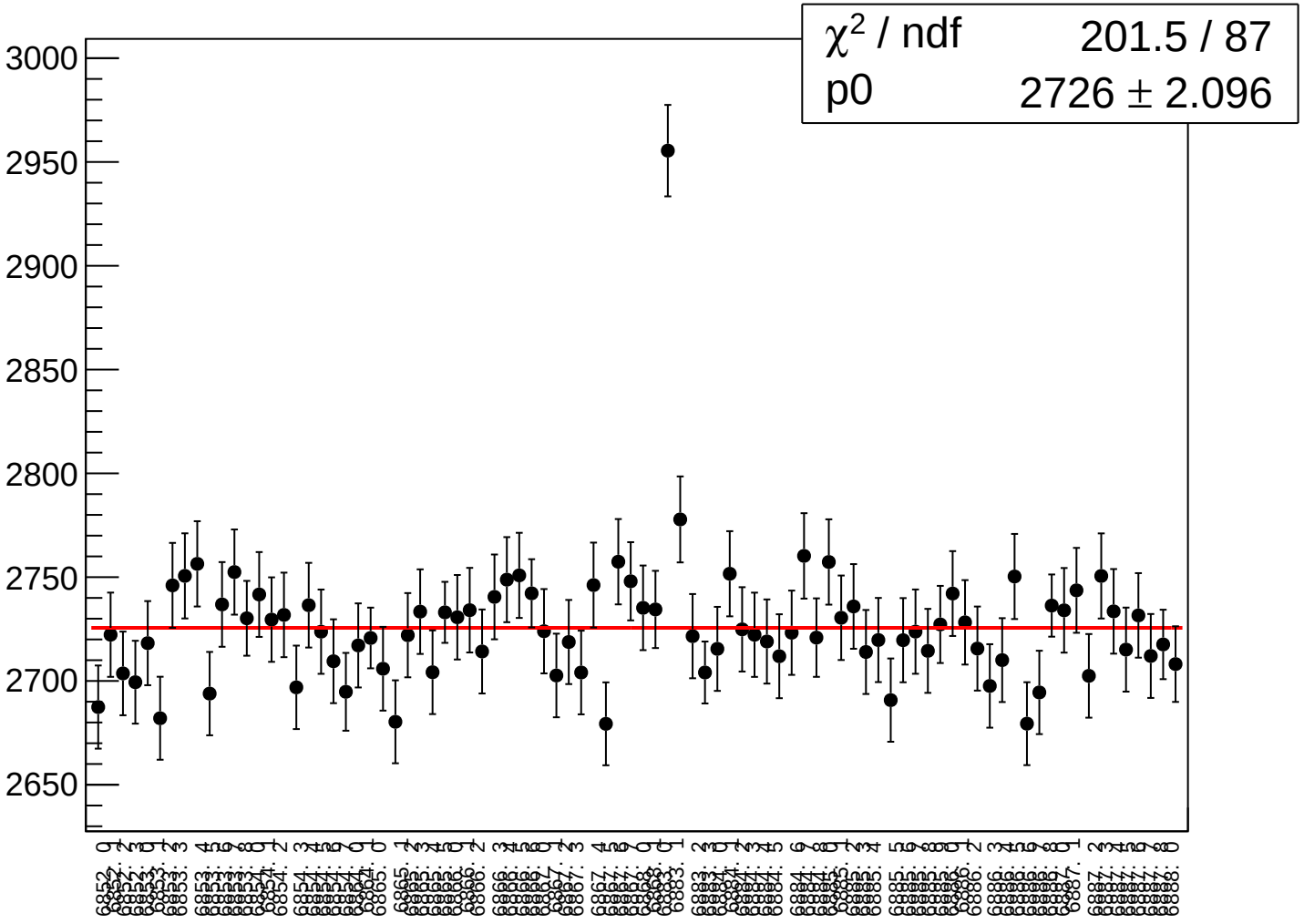

pull1D
Entries 88
Mean 0.01825
Std Dev 1.062

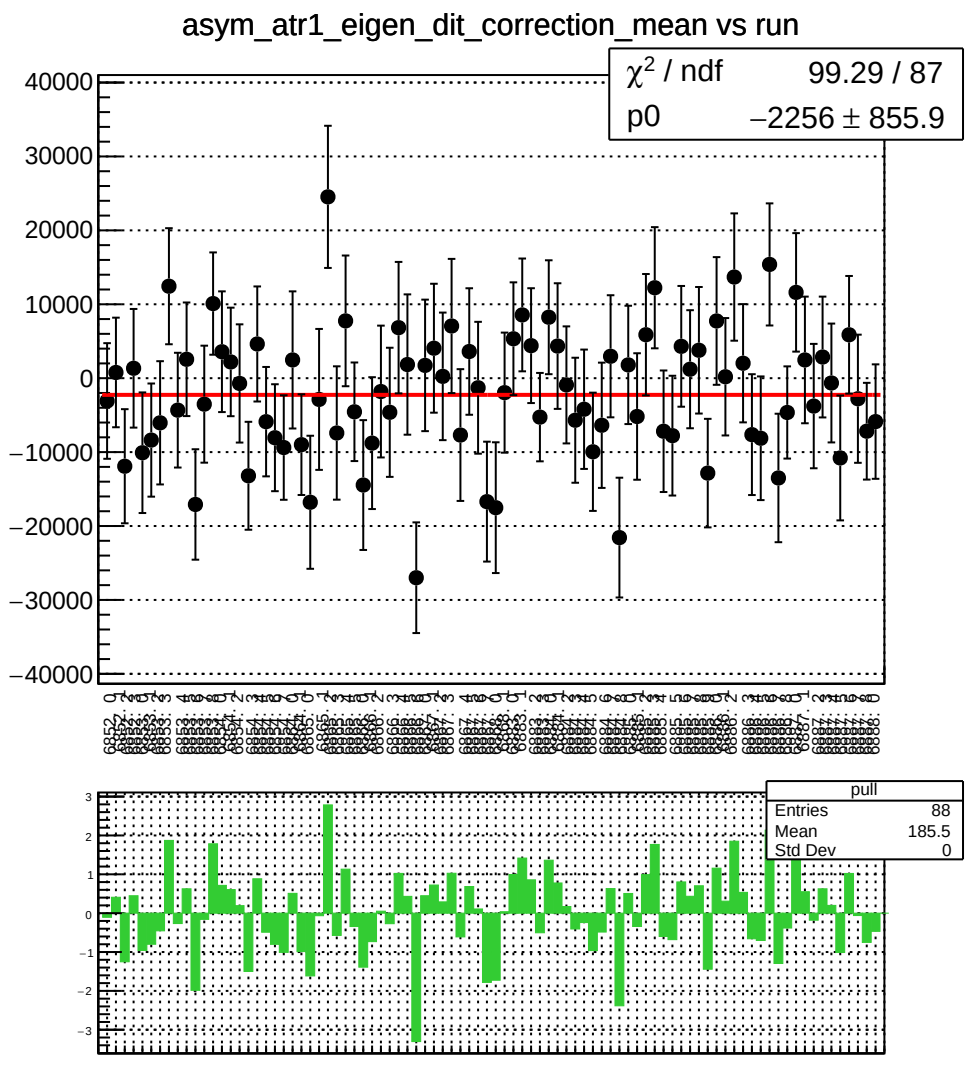

asym_atr1_dit_correction_rms vs run
χ² / ndf 7613 / 87
p0 785.2 ± 0.6052
900
850
800
750
700

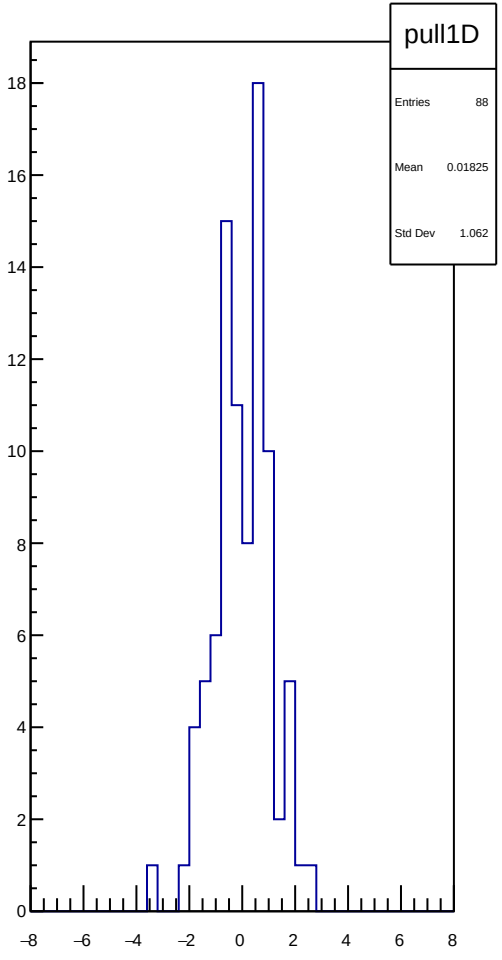

eigen_dit_asym_atr1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 88.45 / 87
p0 −2166 ± 2965
pull
Entries 88
Mean 210.6
Std Dev 0
2
1
0
−1
−2

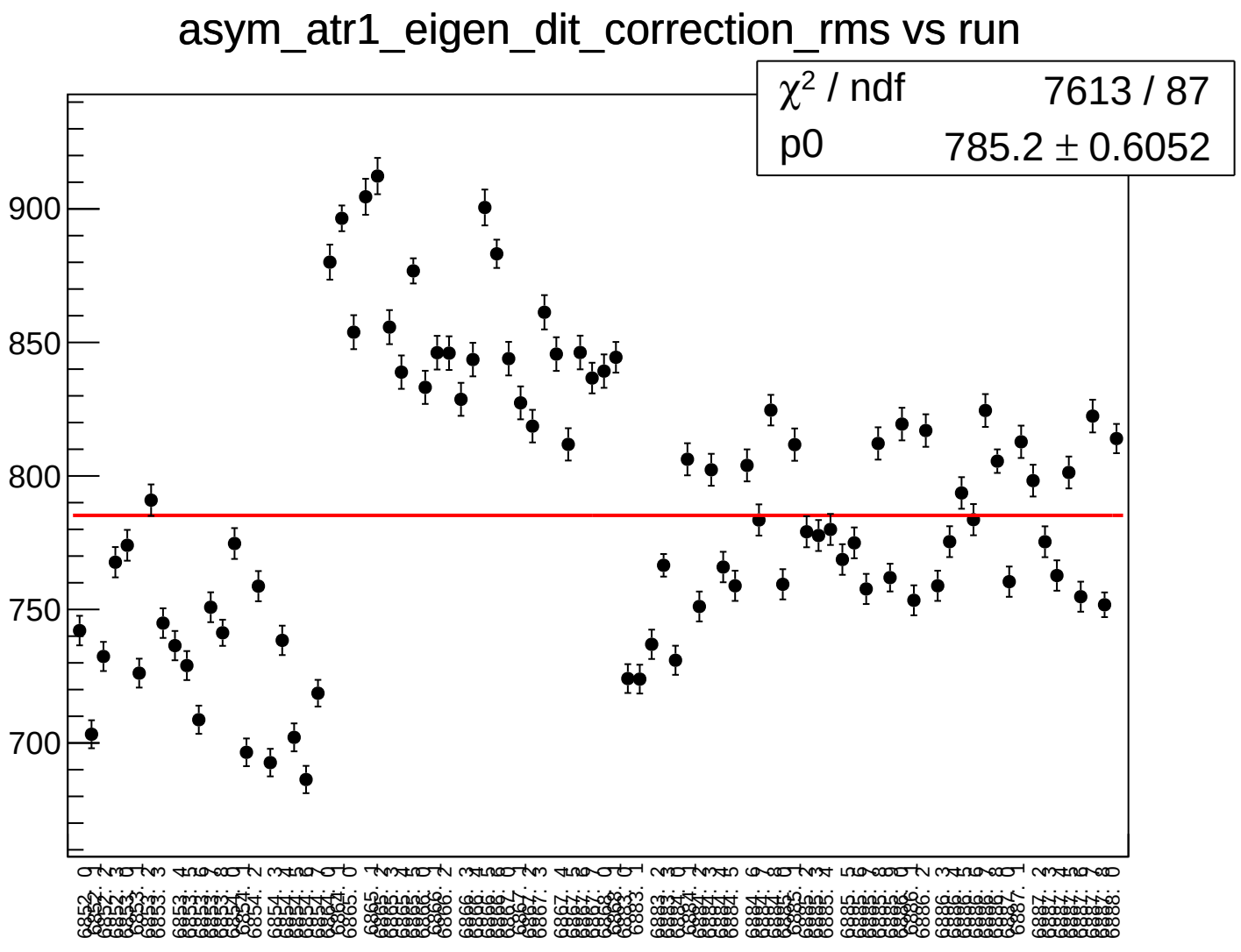

pull1D
Entries 88
Mean −0.005279
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

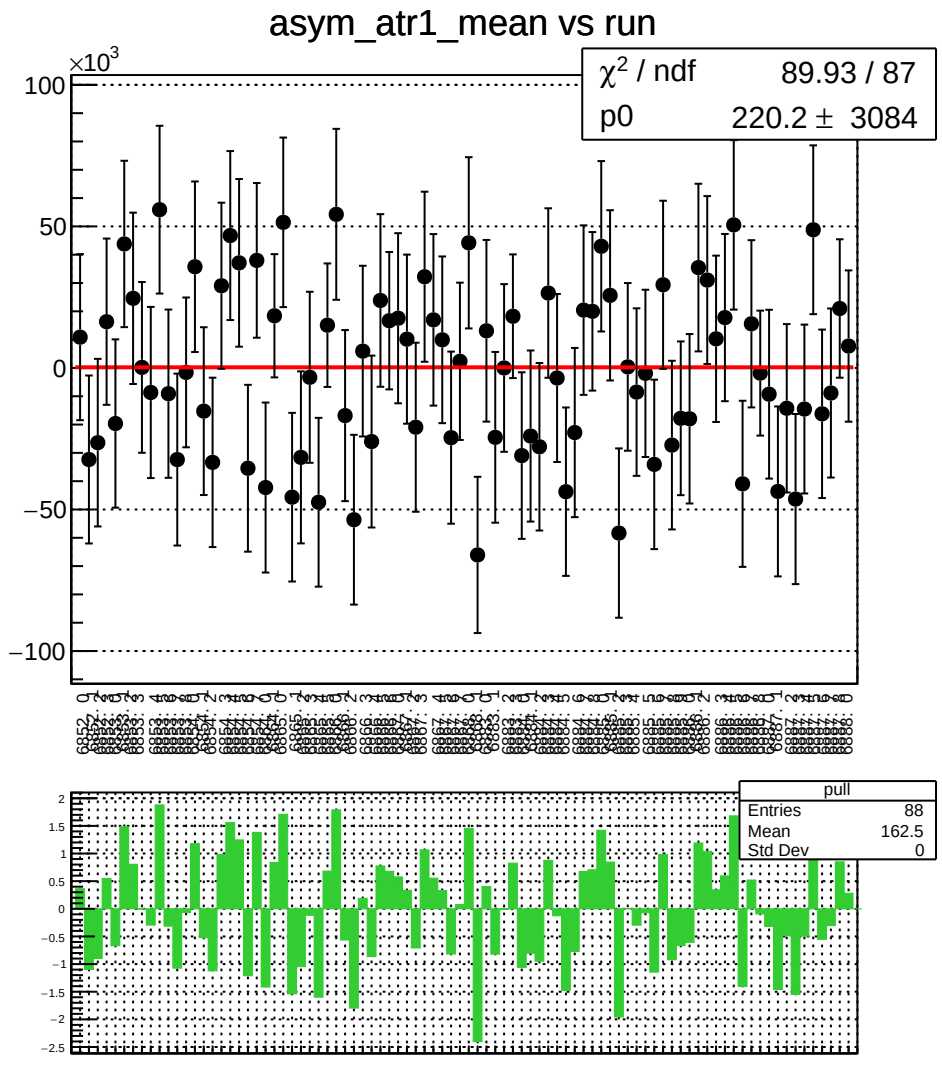
eigen_dit_asym_atr1_rms vs run

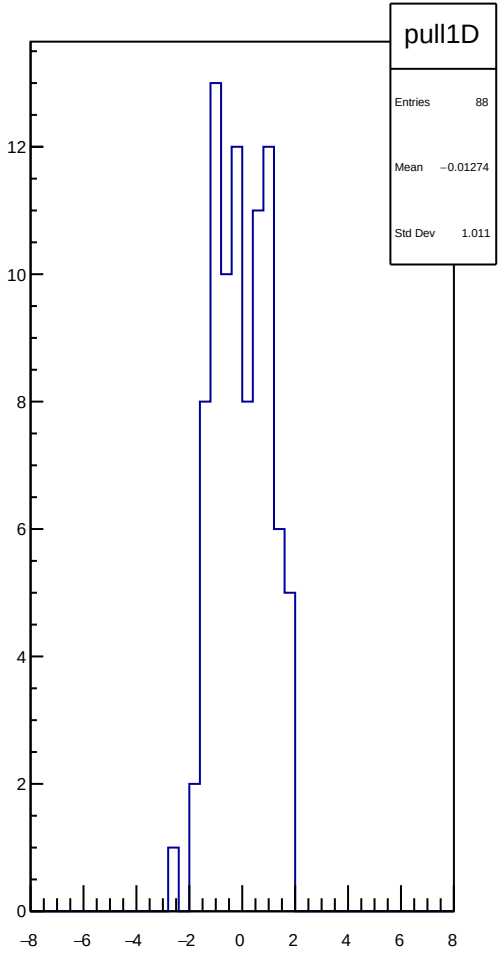


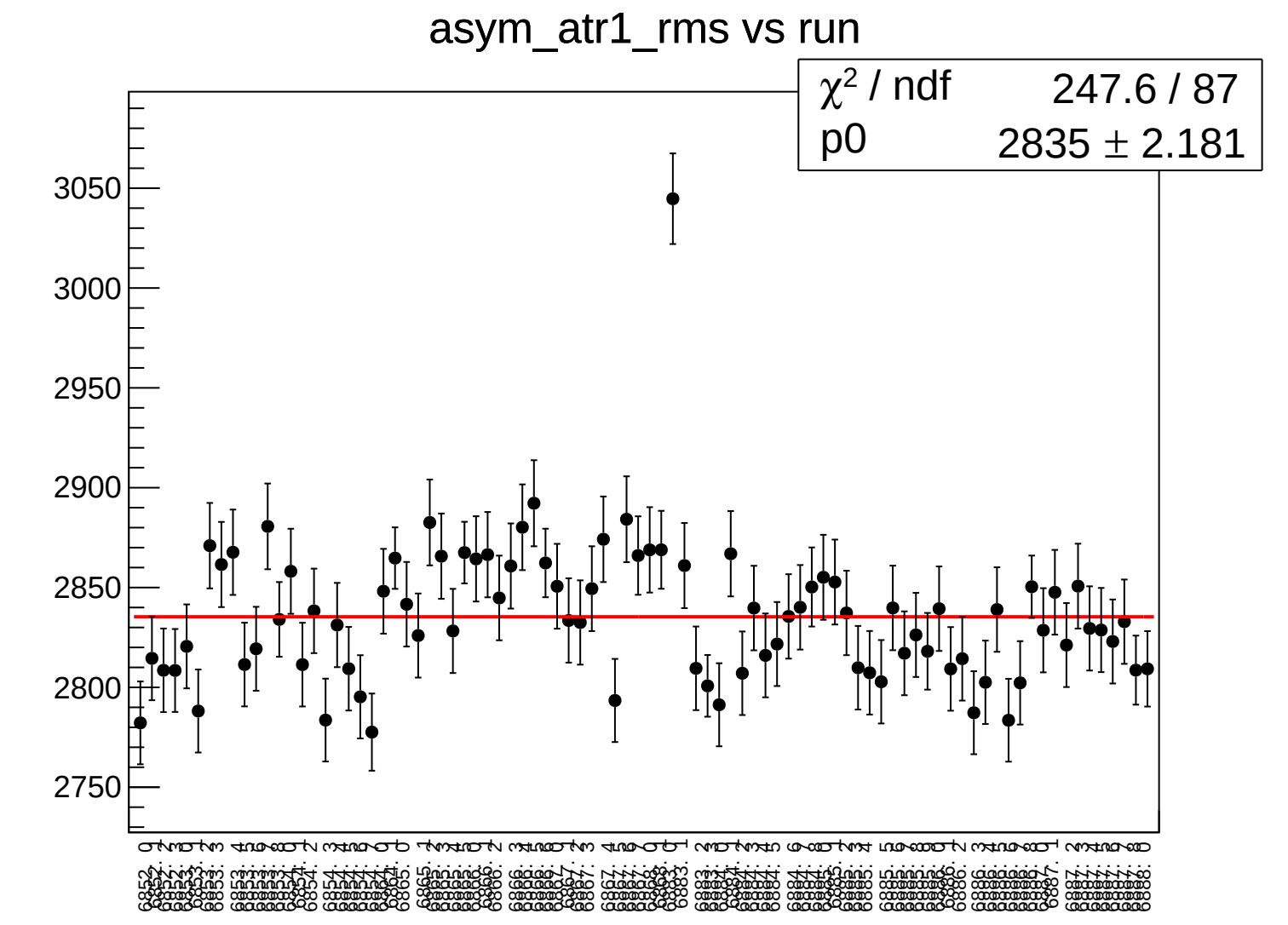

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 99.29 / 87
p0 −2256 ± 855.9
pull
Entries 88
Mean 185.5
Std Dev 0

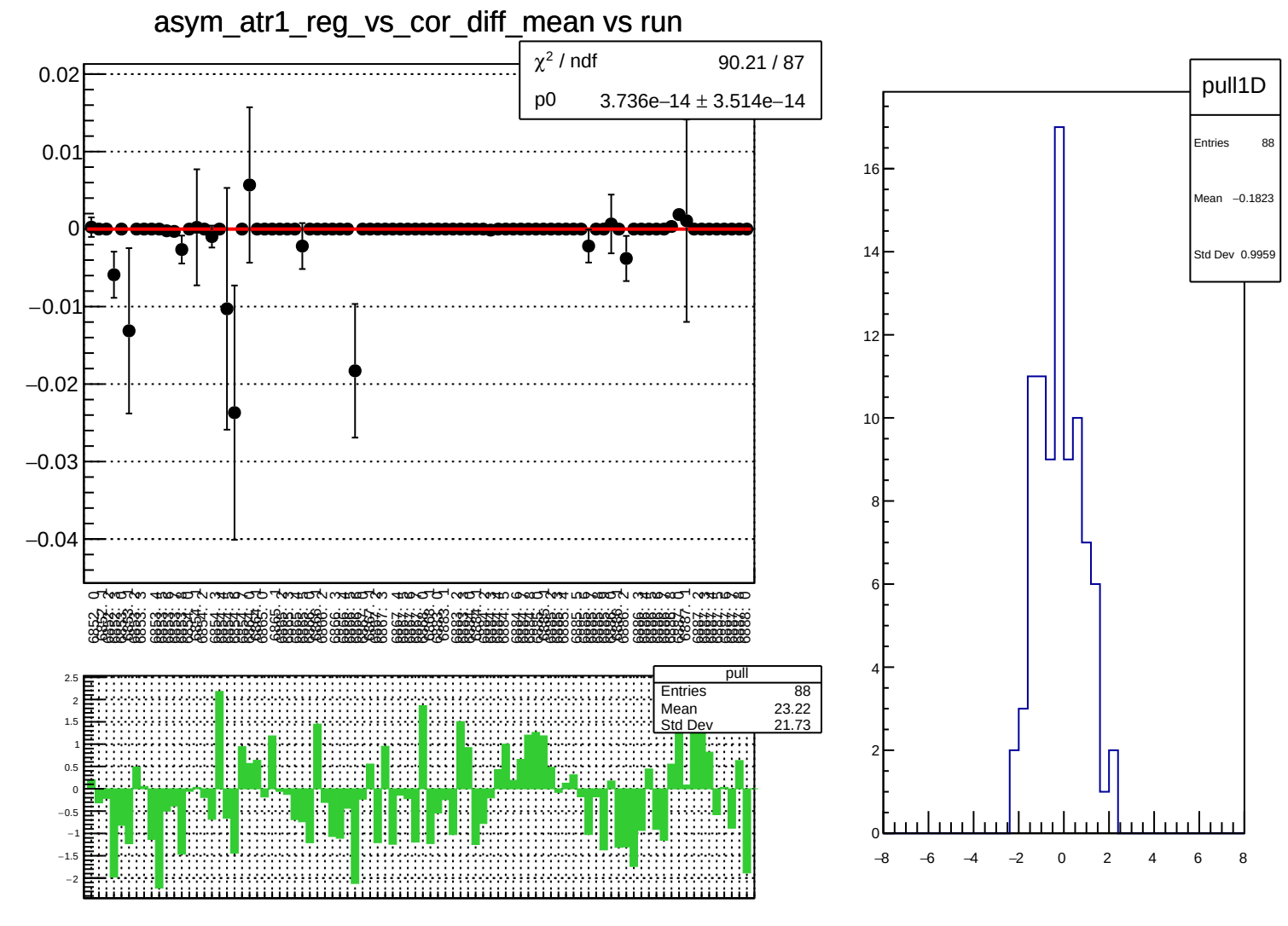

pull1D
Entries 88
Mean 0.01825
Std Dev 1.062

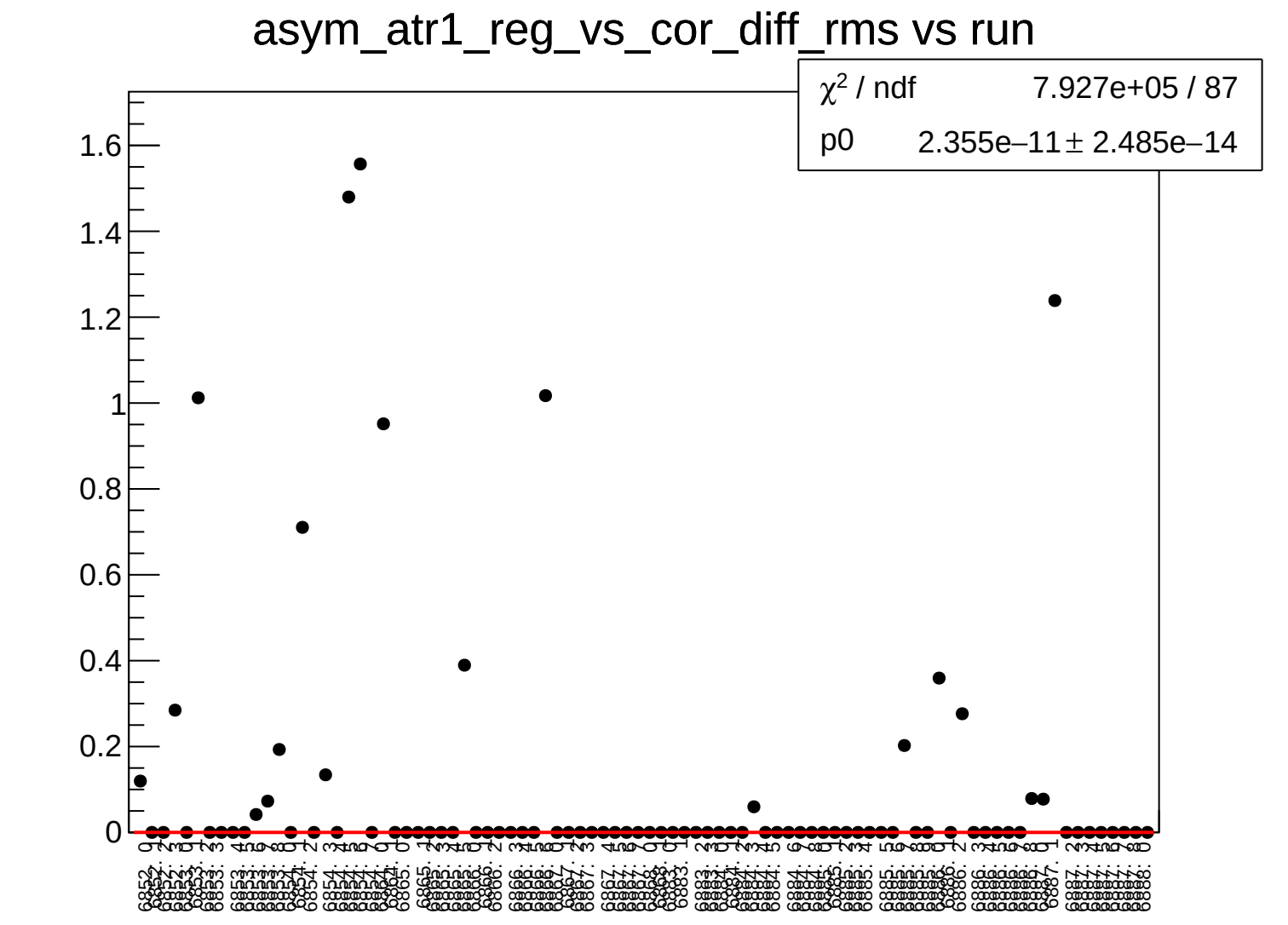

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 7613 / 87
p0 785.2 ± 0.6052
900
850
800
750
700

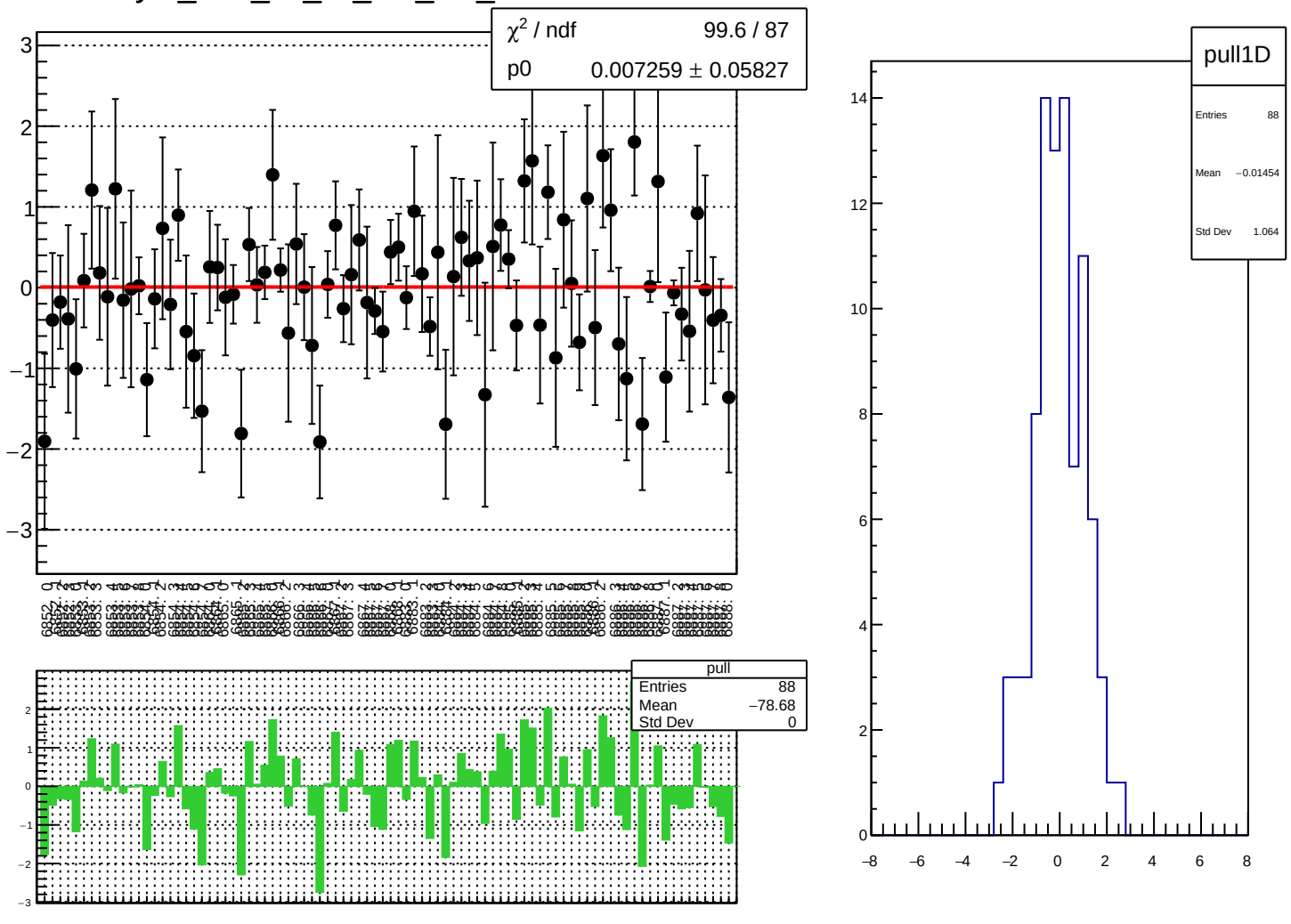

asym_atr1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 89.93 / 87
p0 220.2 ± 3084
pull
Entries 88
Mean 162.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

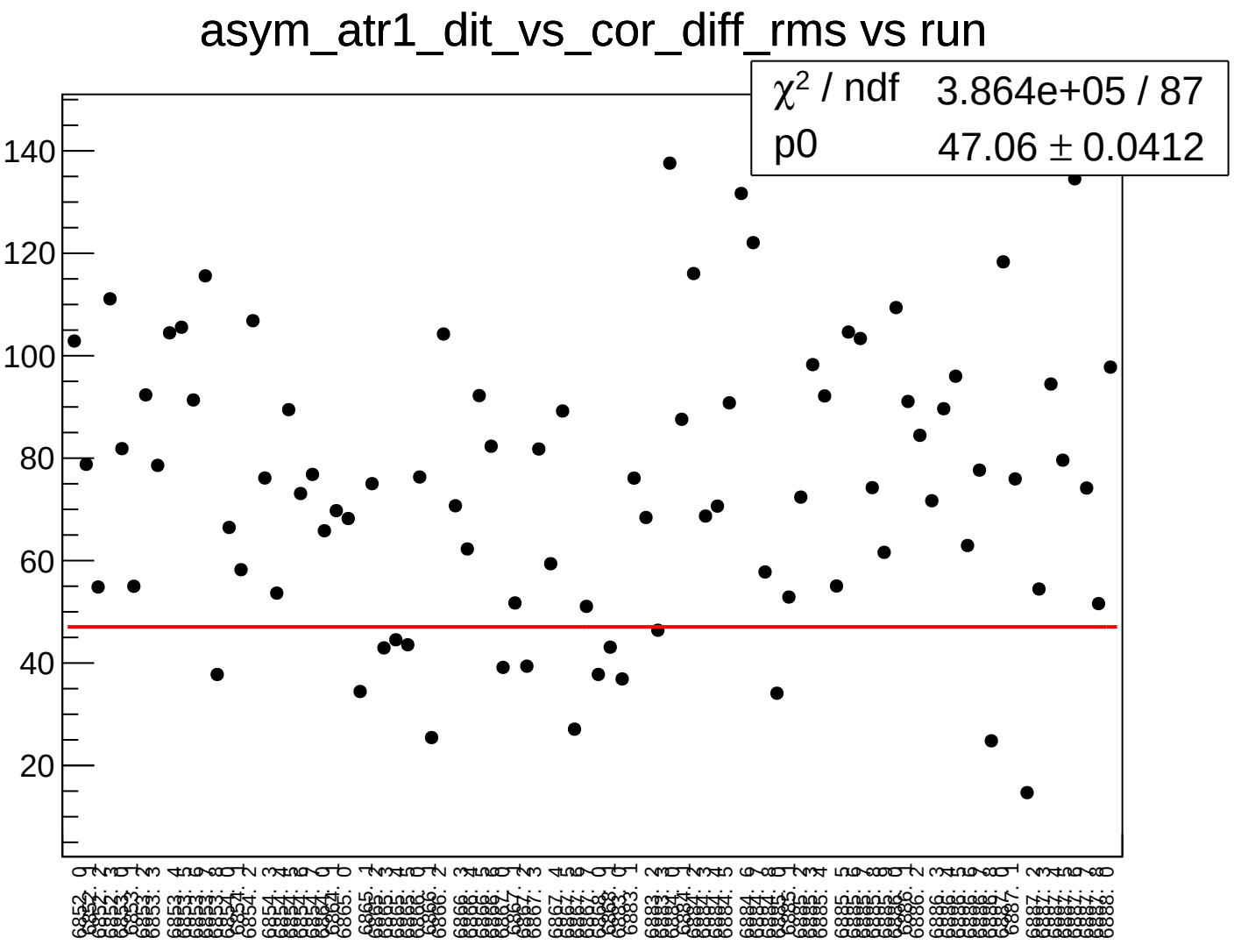

pull1D
Entries 88
Mean −0.01274
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

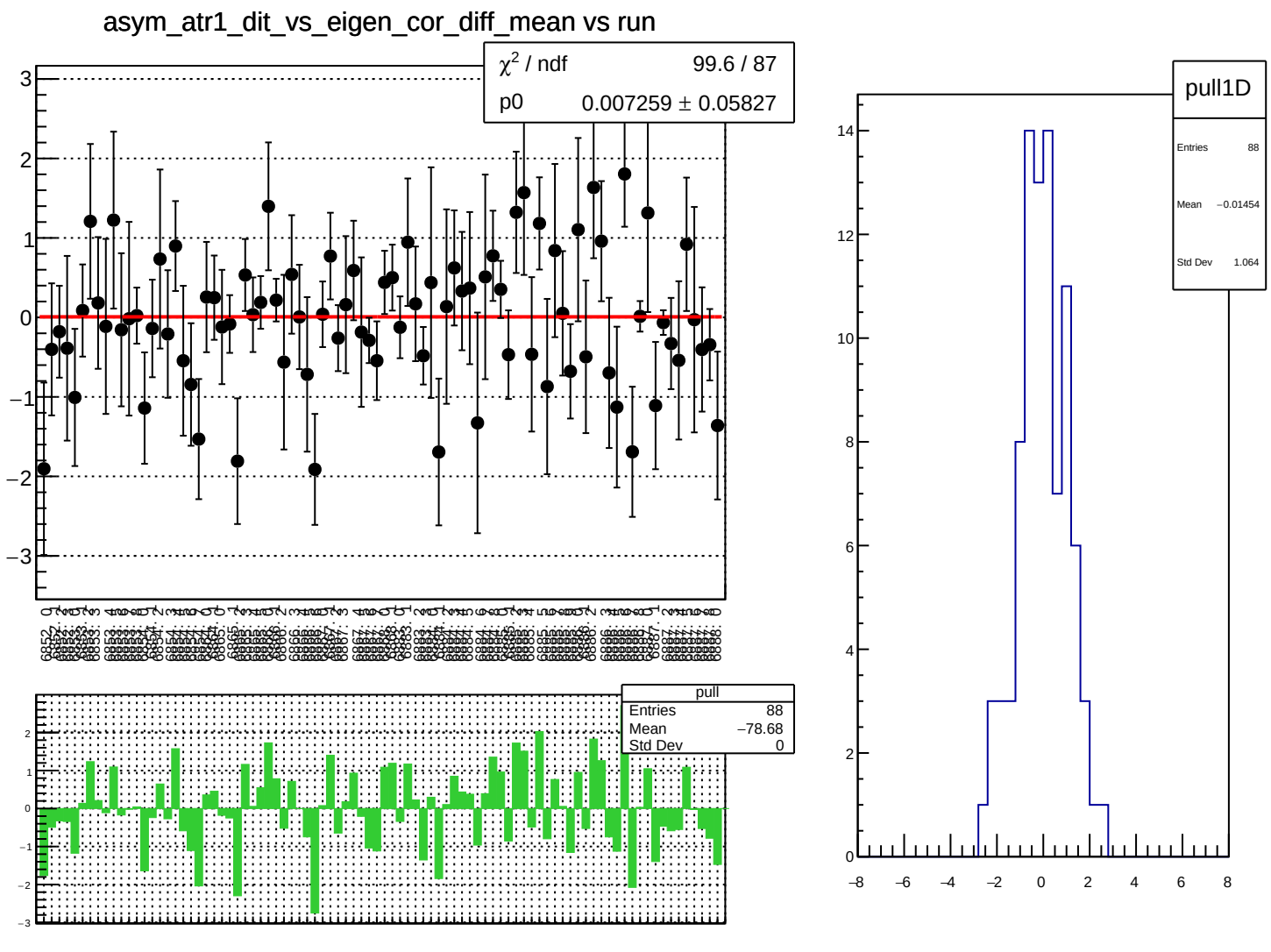

asym_atr1_rms vs run
χ^2 / ndf 247.6 / 87
p0 2835 ± 2.181
3050
3000
2950
2900
2850
2800
2750

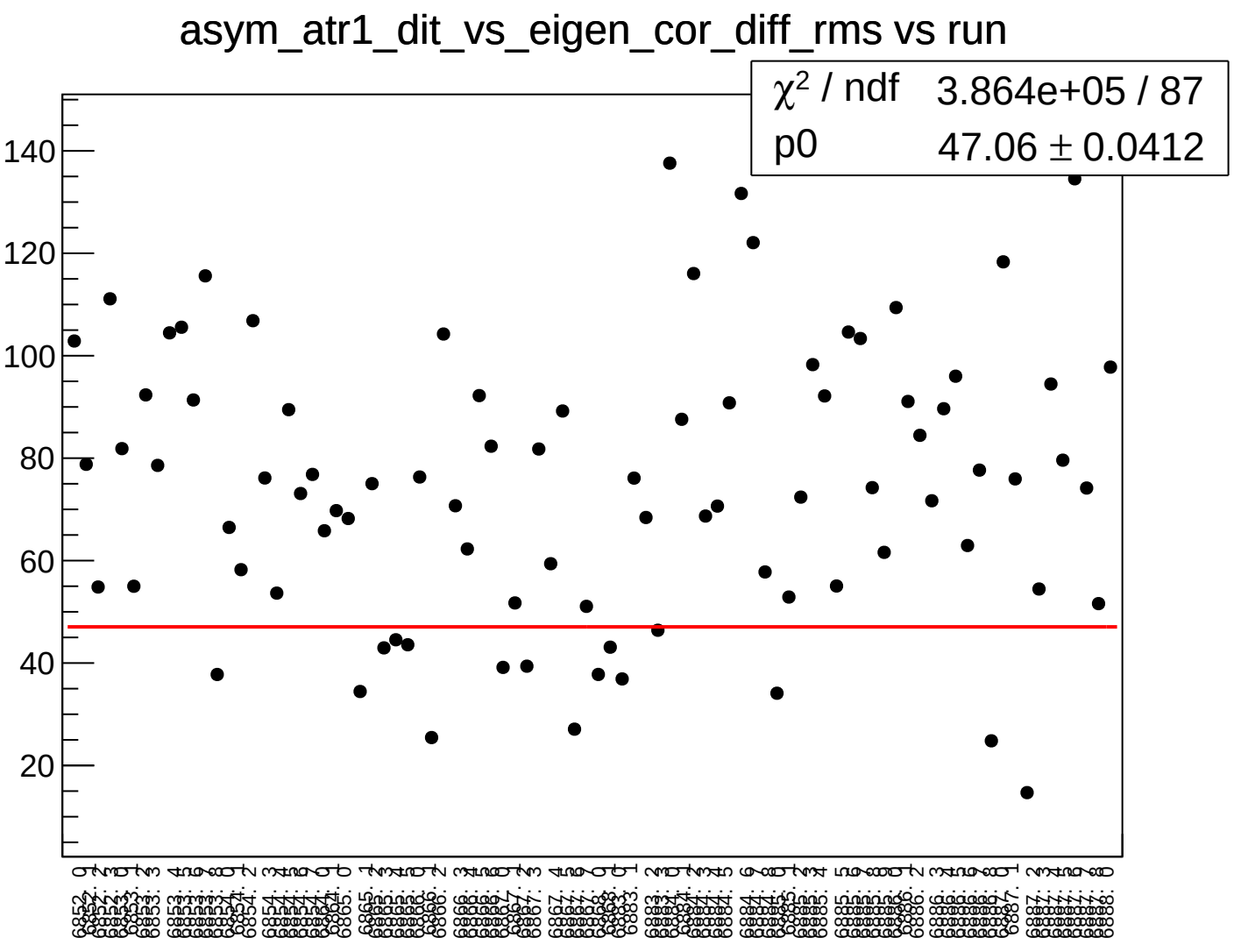

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 90.21 / 87
p0 3.736e−14 ± 3.514e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 88
Mean 23.22
Std Dev 21.73
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.1823
Std Dev 0.9959
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

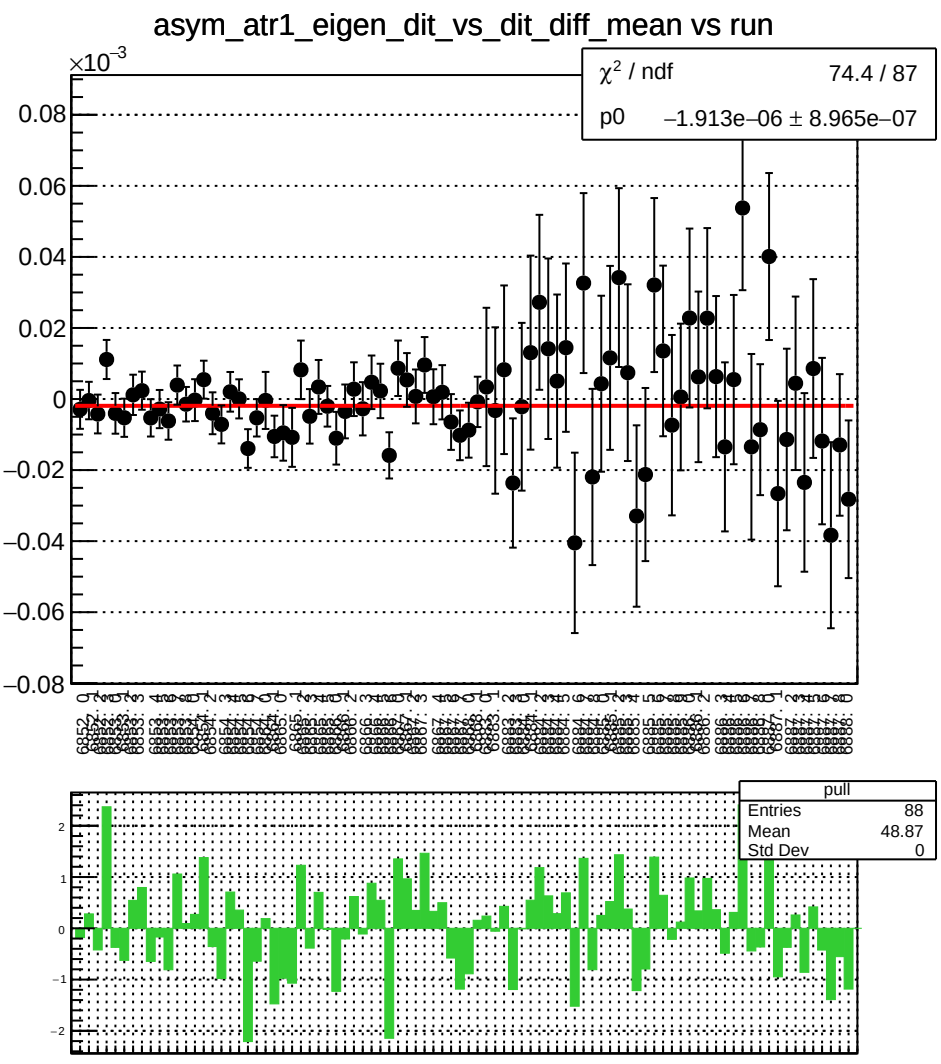

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 7.927e+05 / 87
p0 2.355e−11 ± 2.485e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

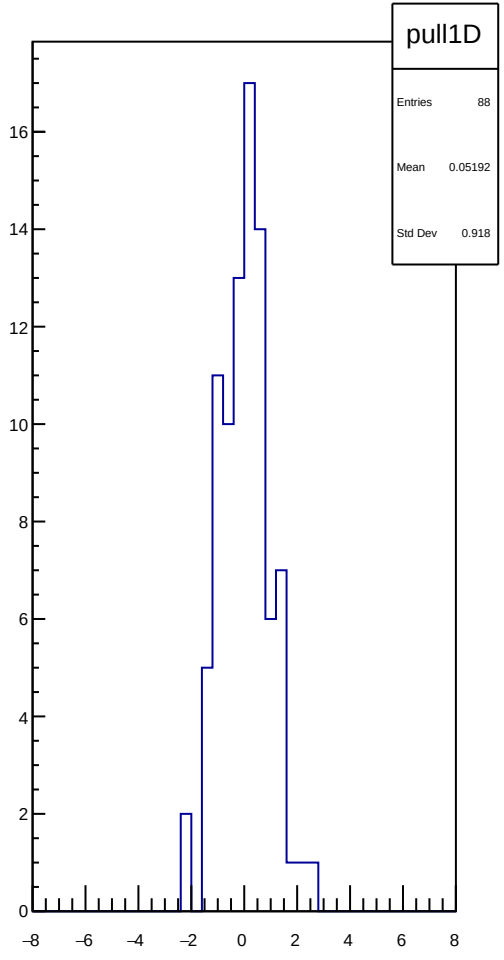

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 99.6 / 87
p0 0.007259 ± 0.05827
pull
Entries 88
Mean −78.68
Std Dev 0
pull1D
Entries 88
Mean −0.01454
Std Dev 1.064

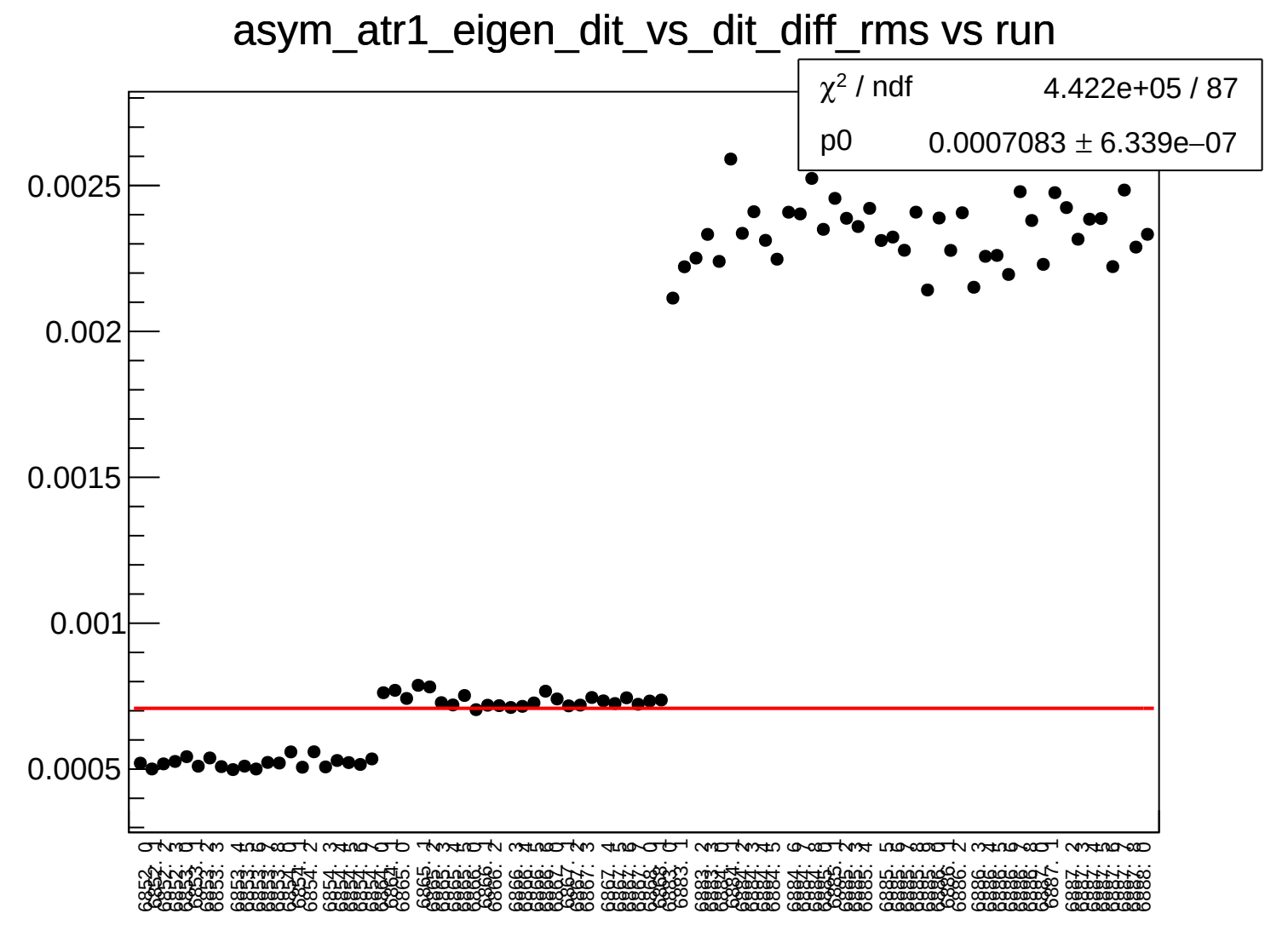

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.864e+05 / 87
p0 47.06 ± 0.0412
140
120
100
80
60
40
20

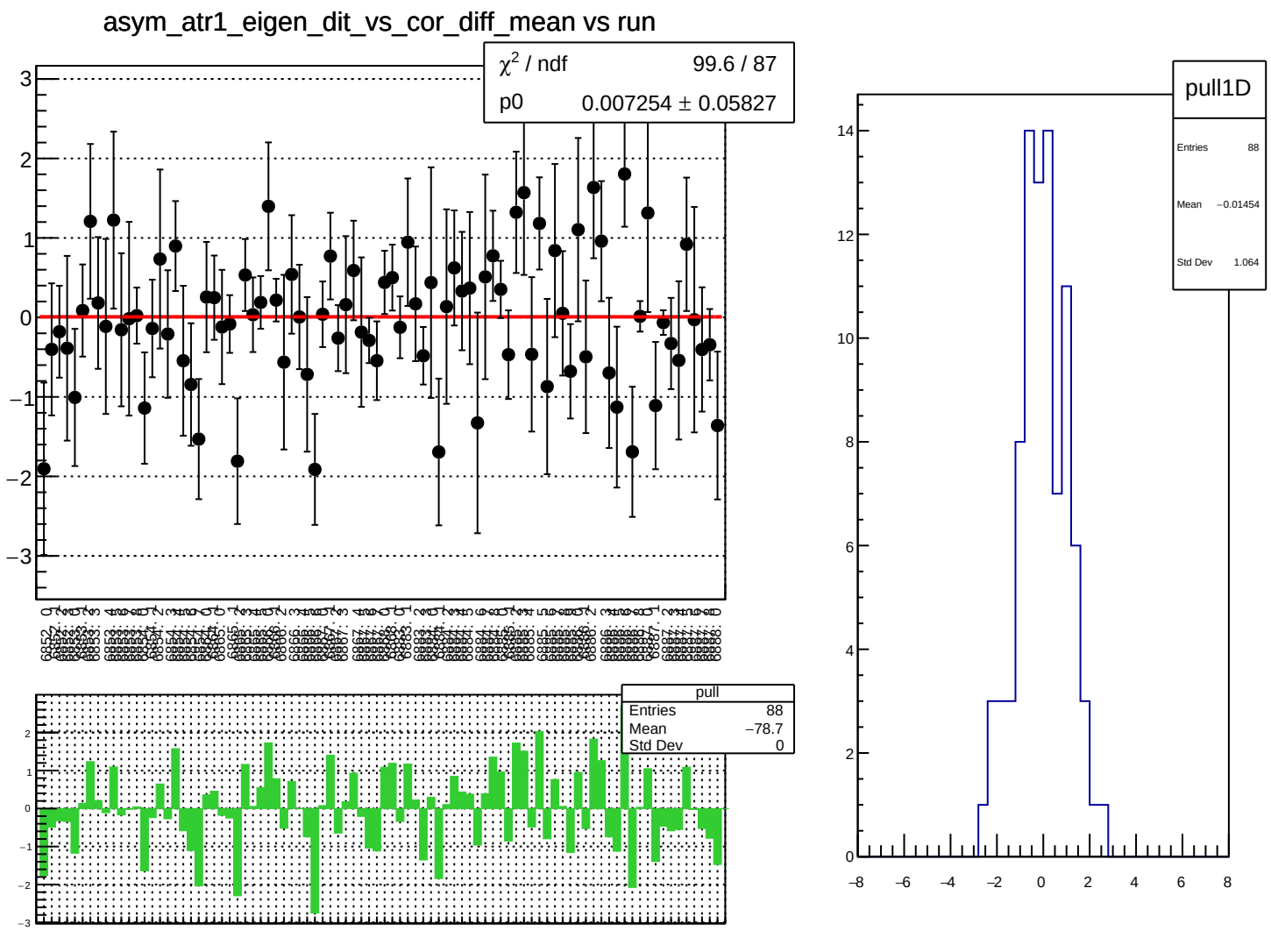

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.6 / 87
p0 0.007259 ± 0.05827
pull
Entries 88
Mean −78.68
Std Dev 0
pull1D
Entries 88
Mean −0.01454
Std Dev 1.064

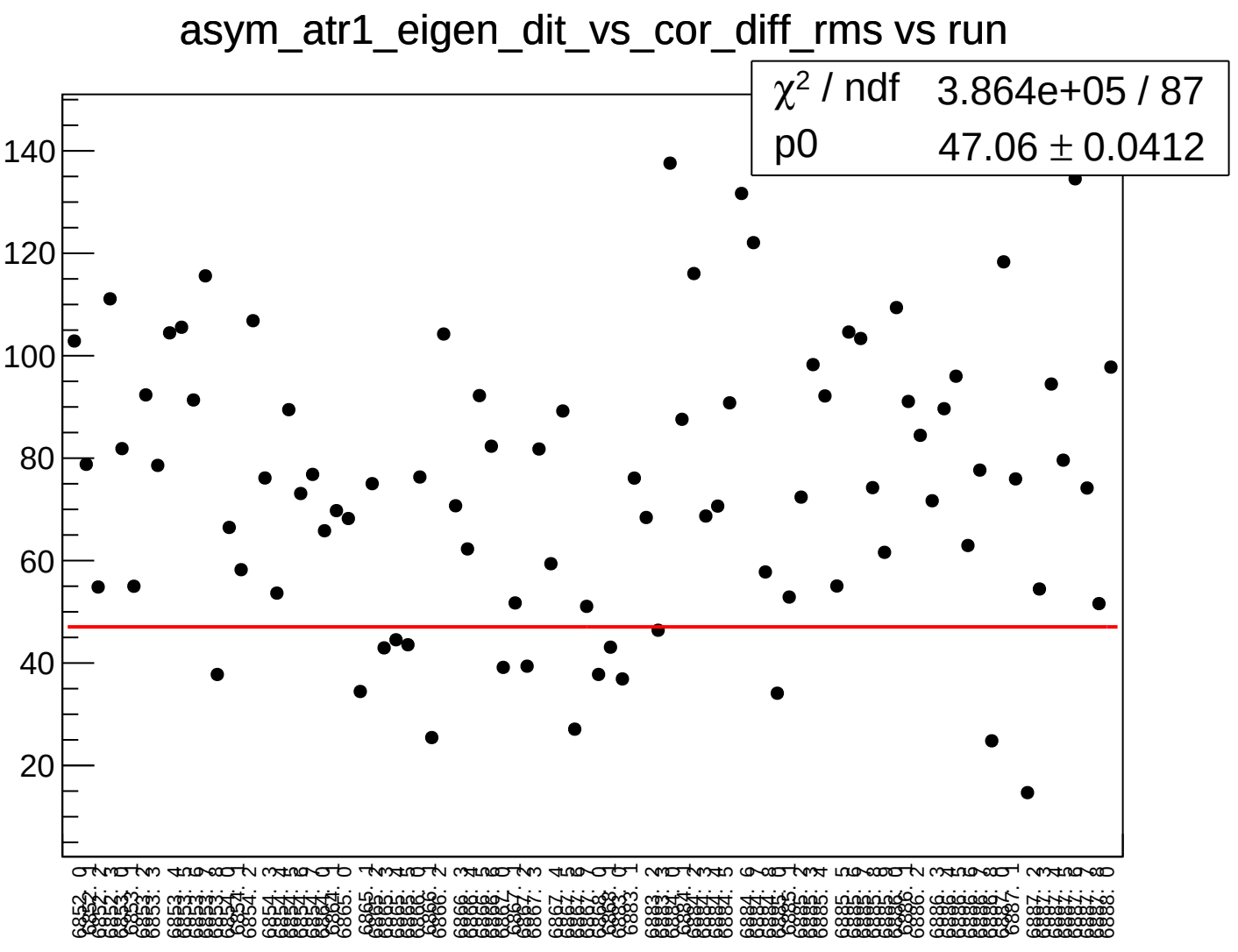

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.864e+05 / 87
p0 47.06 ± 0.0412
140
120
100
80
60
40
20


asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.4 / 87
p0 −1.913e−06 ± 8.965e−07
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 88
Mean 48.87
Std Dev 0
2
1
0
−1
−2

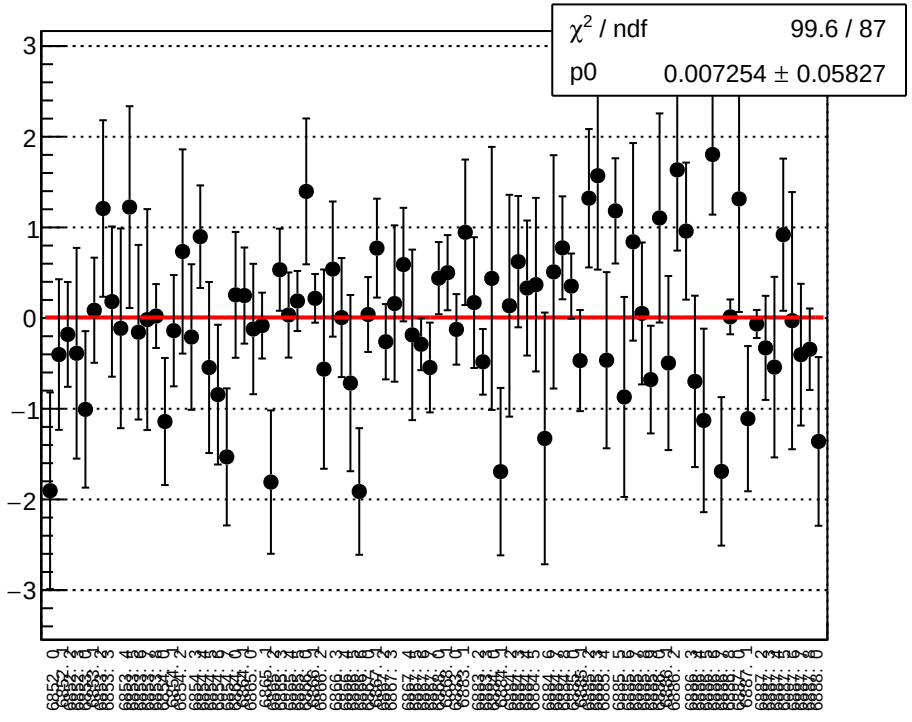

pull1D
Entries 88
Mean 0.05192
Std Dev 0.918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

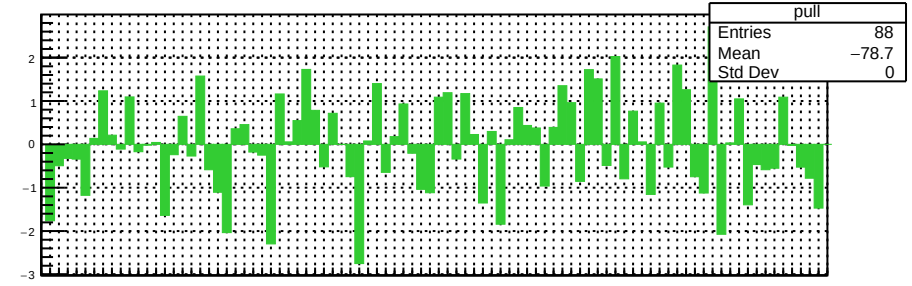

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.422e+05 / 87
p0 0.0007083 ± 6.339e−07
0.0025
0.002
0.0015
0.001
0.0005

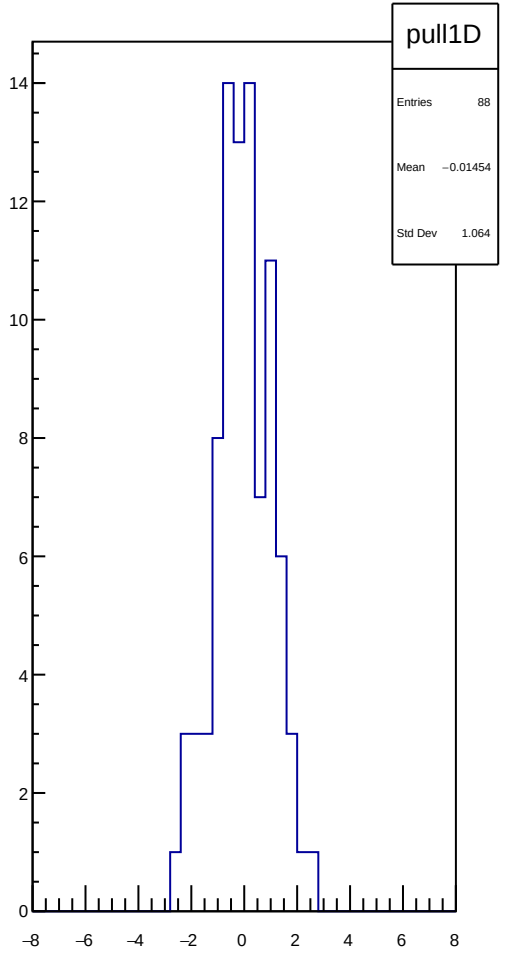

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.6 / 87
p0 0.007254 ± 0.05827
pull
Entries 88
Mean −78.7
Std Dev 0
pull1D
Entries 88
Mean −0.01454
Std Dev 1.064

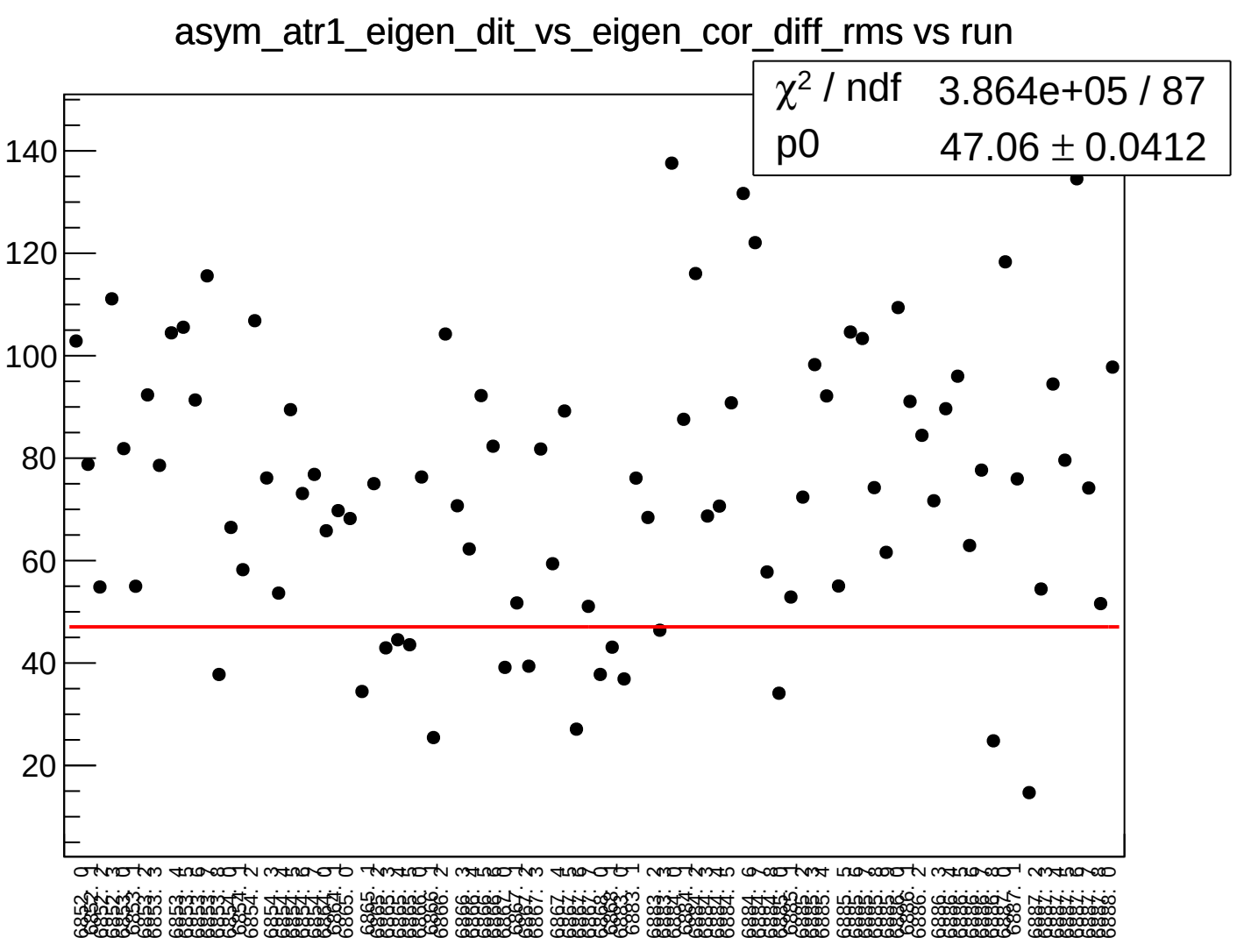

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.864e+05 / 87
p0 47.06 ± 0.0412
140
120
100
80
60
40
20

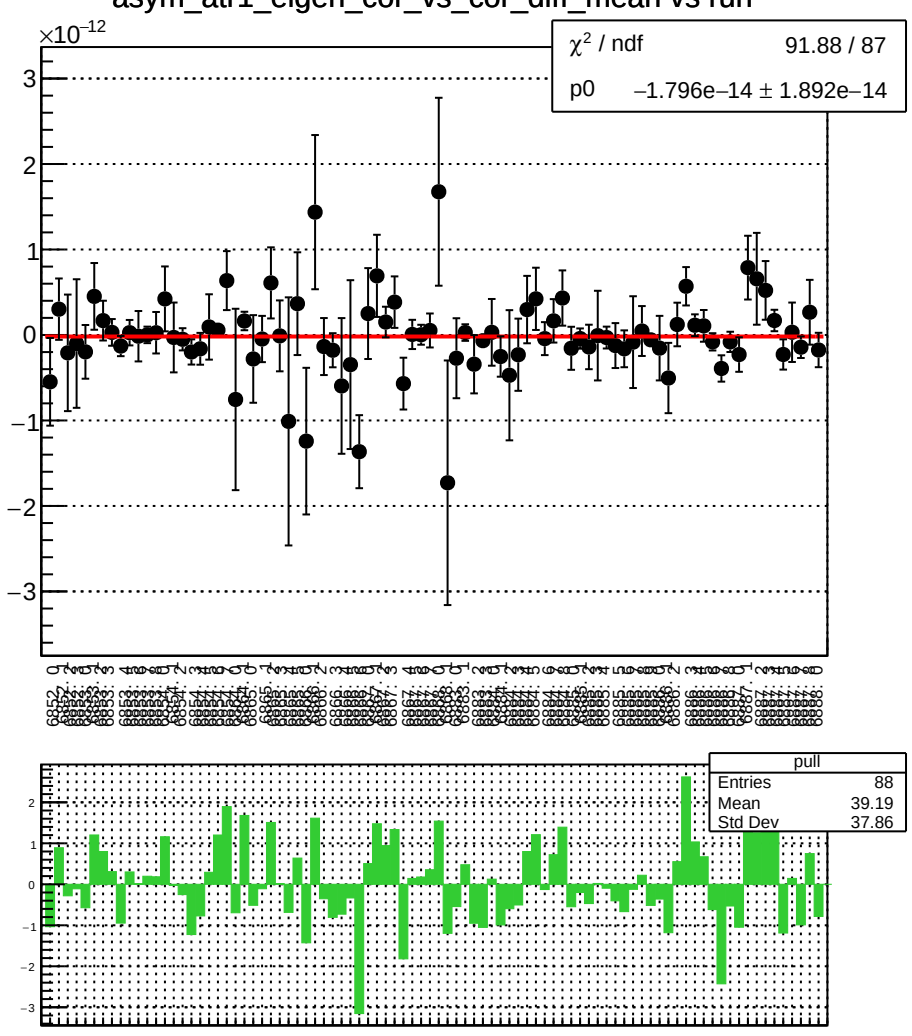
asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run

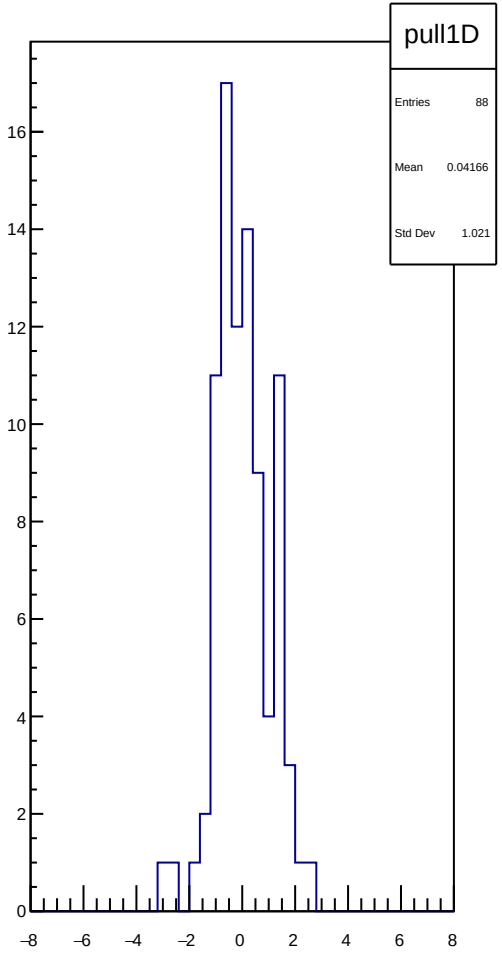


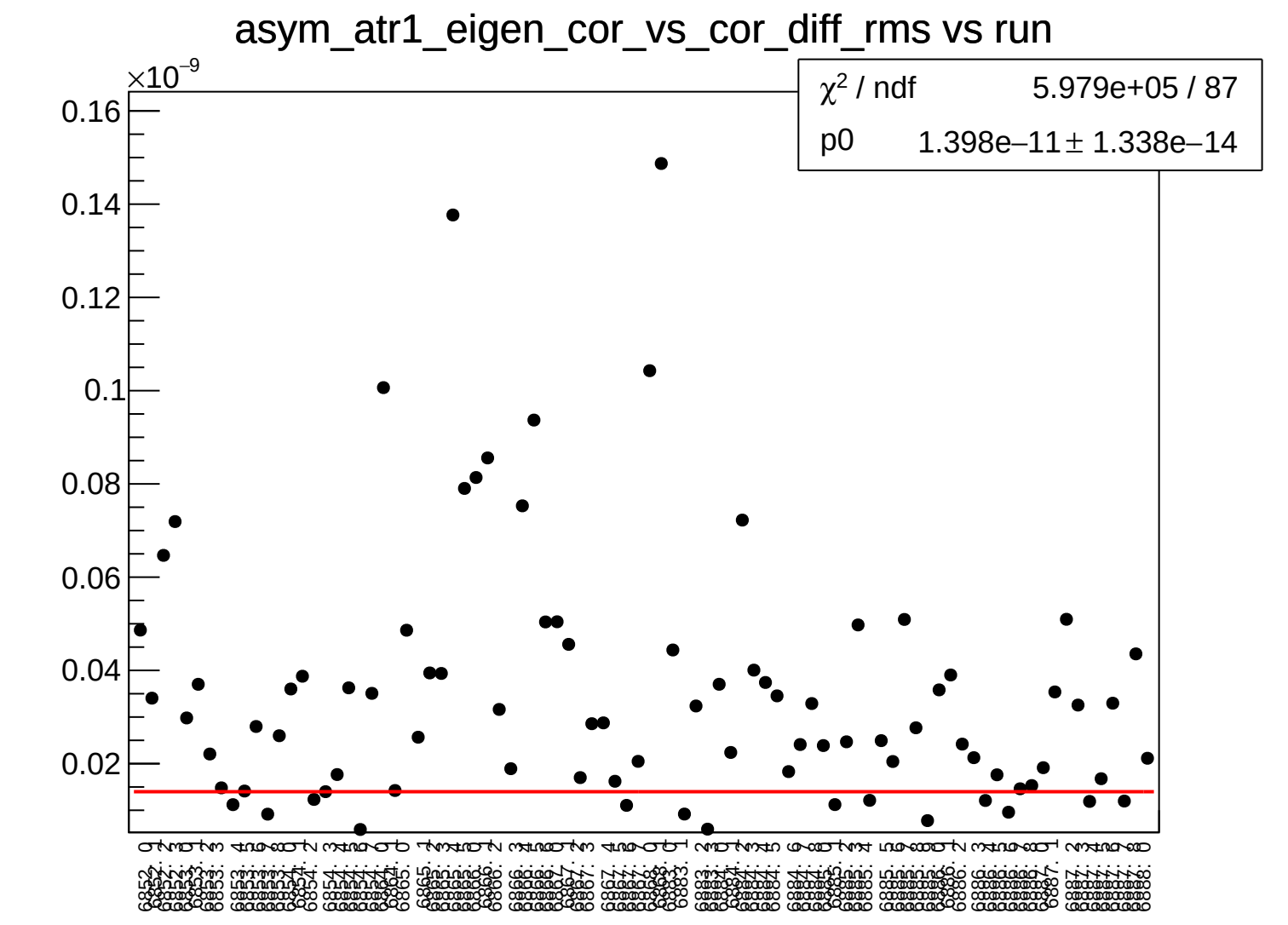


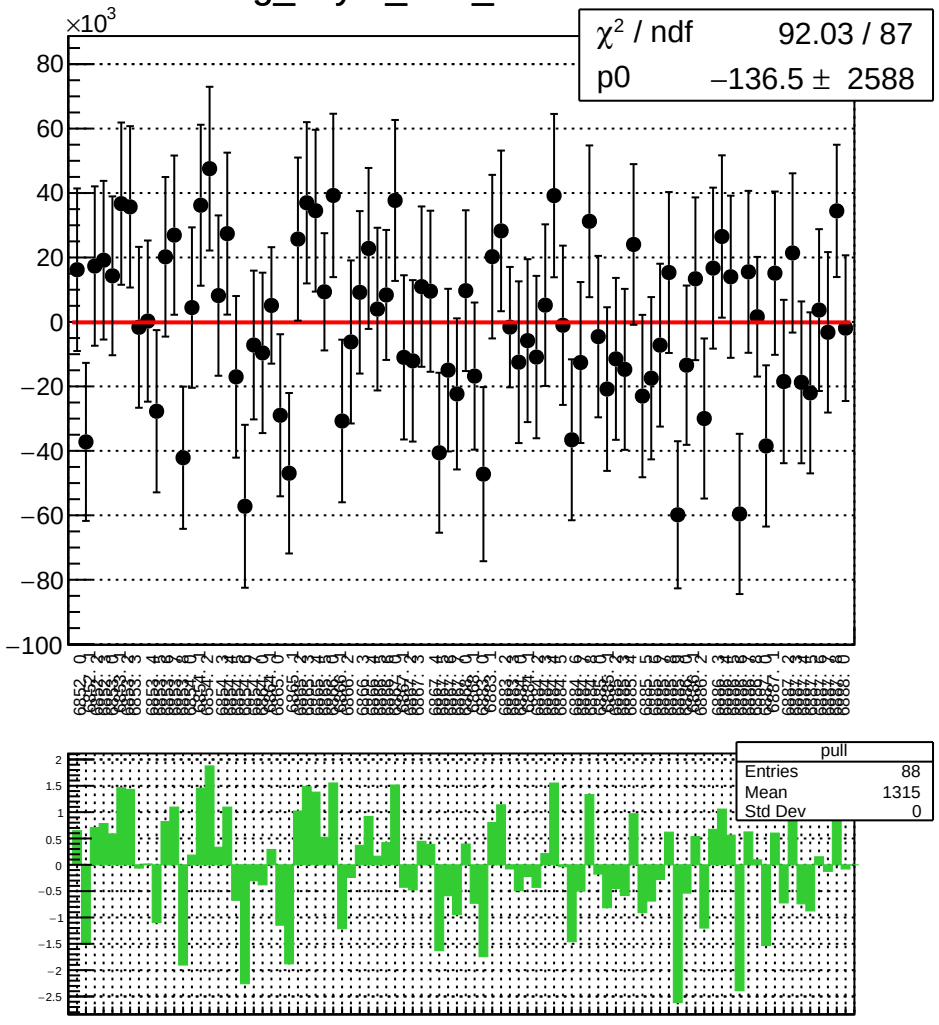


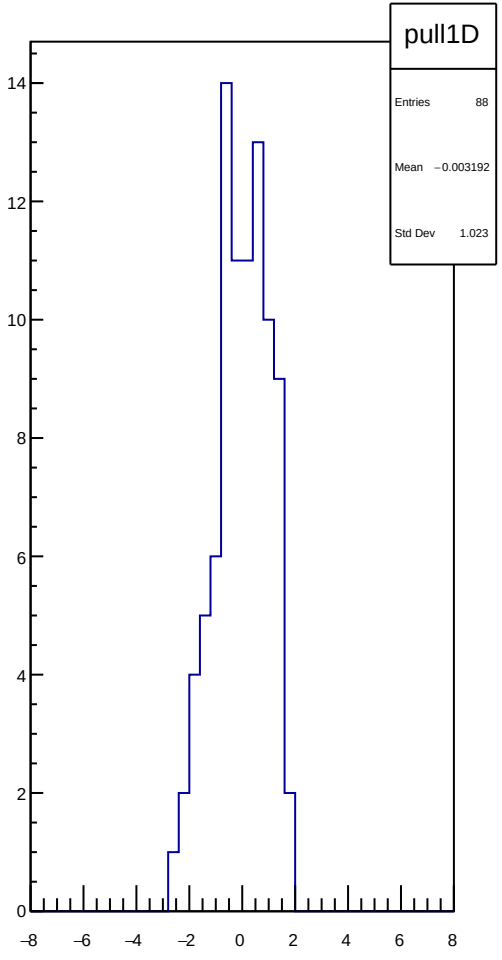

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.864e+05 / 87
p0 47.06 ± 0.0412
140
120
100
80
60
40
20

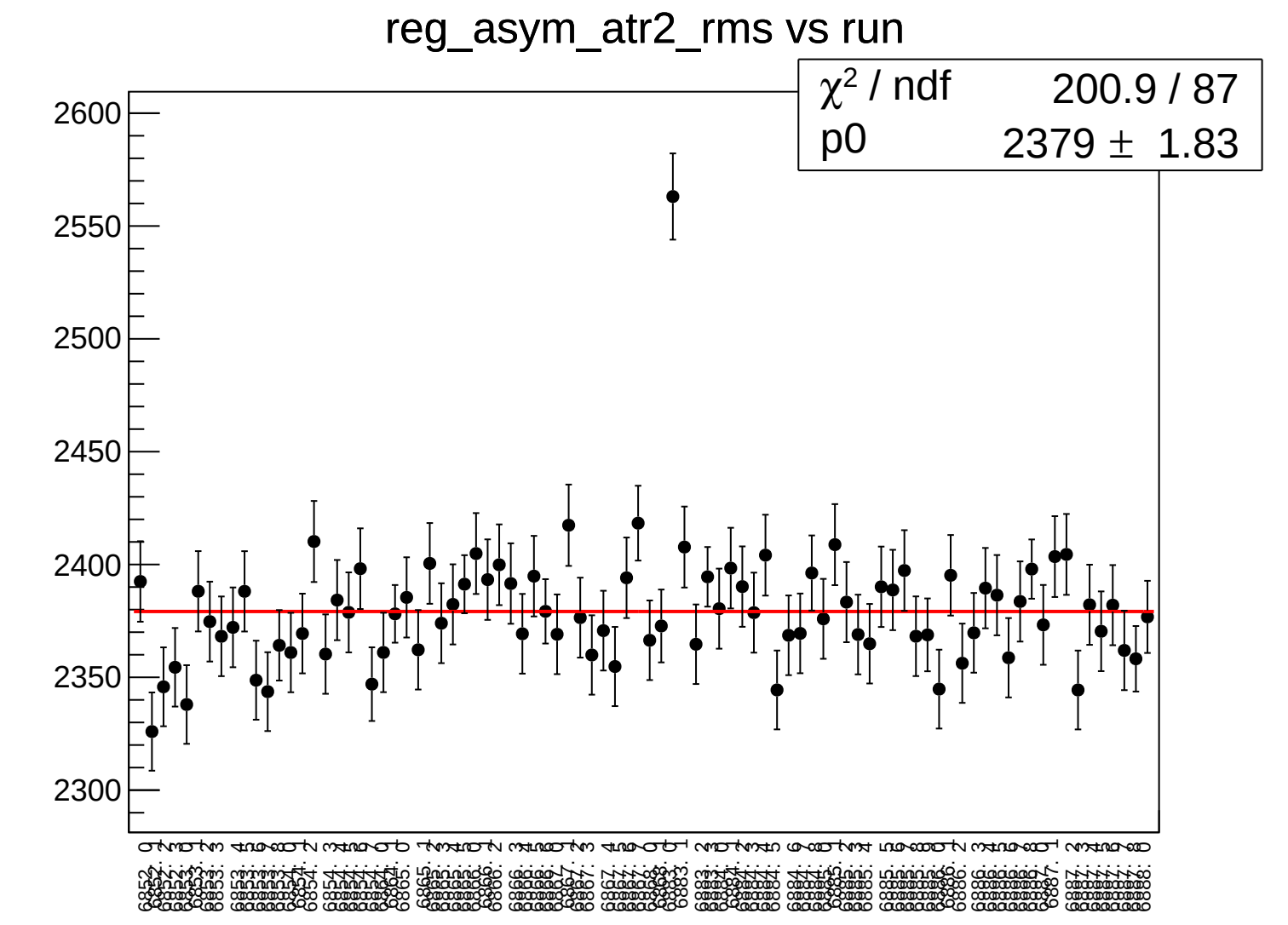

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.88 / 87
p0 −1.796e−14 ± 1.892e−14
pull
Entries 88
Mean 39.19
Std Dev 37.86

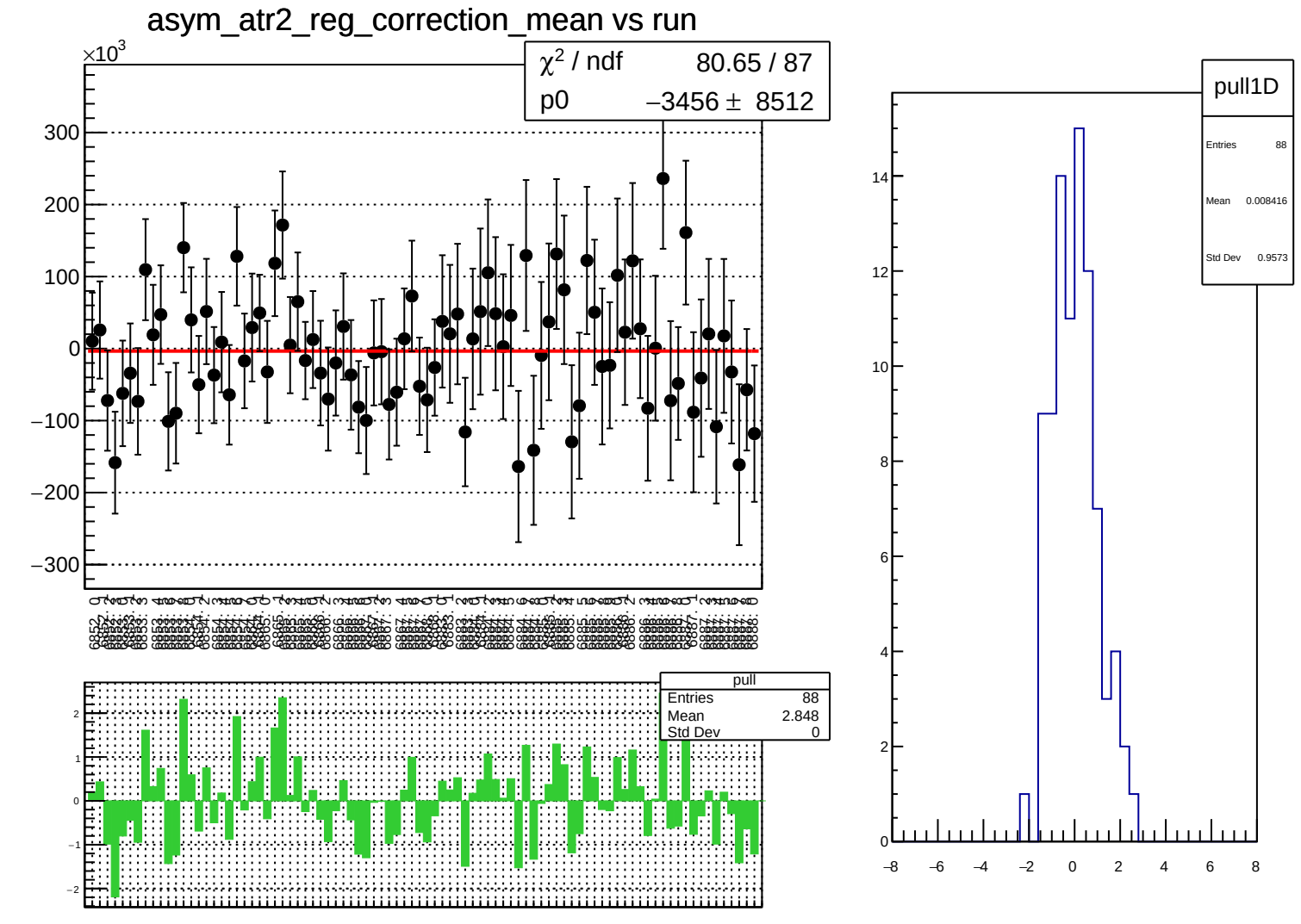

pull1D
Entries 88
Mean 0.04166
Std Dev 1.021

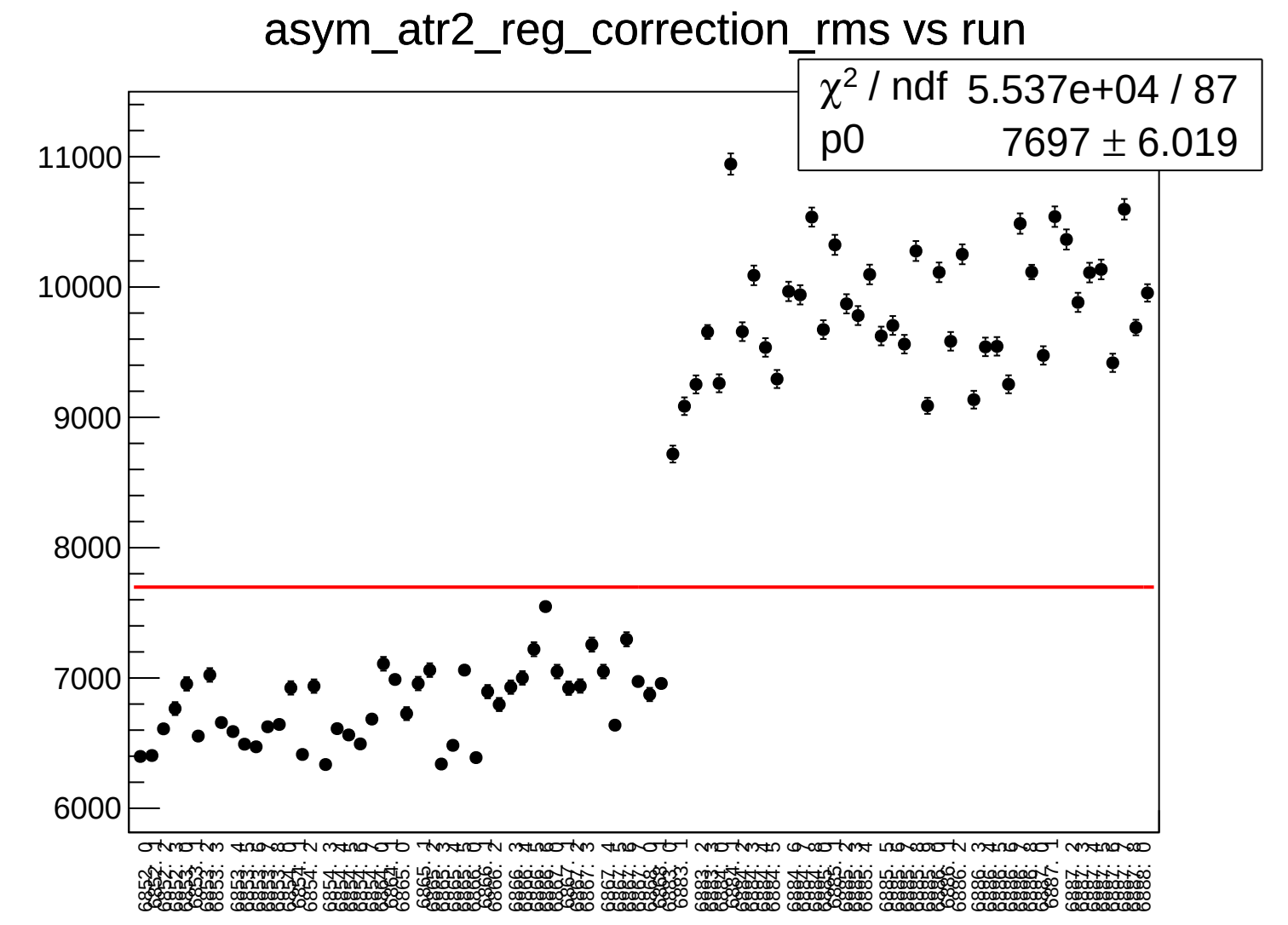

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.979e+05 / 87
p0 1.398e−11 ± 1.338e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

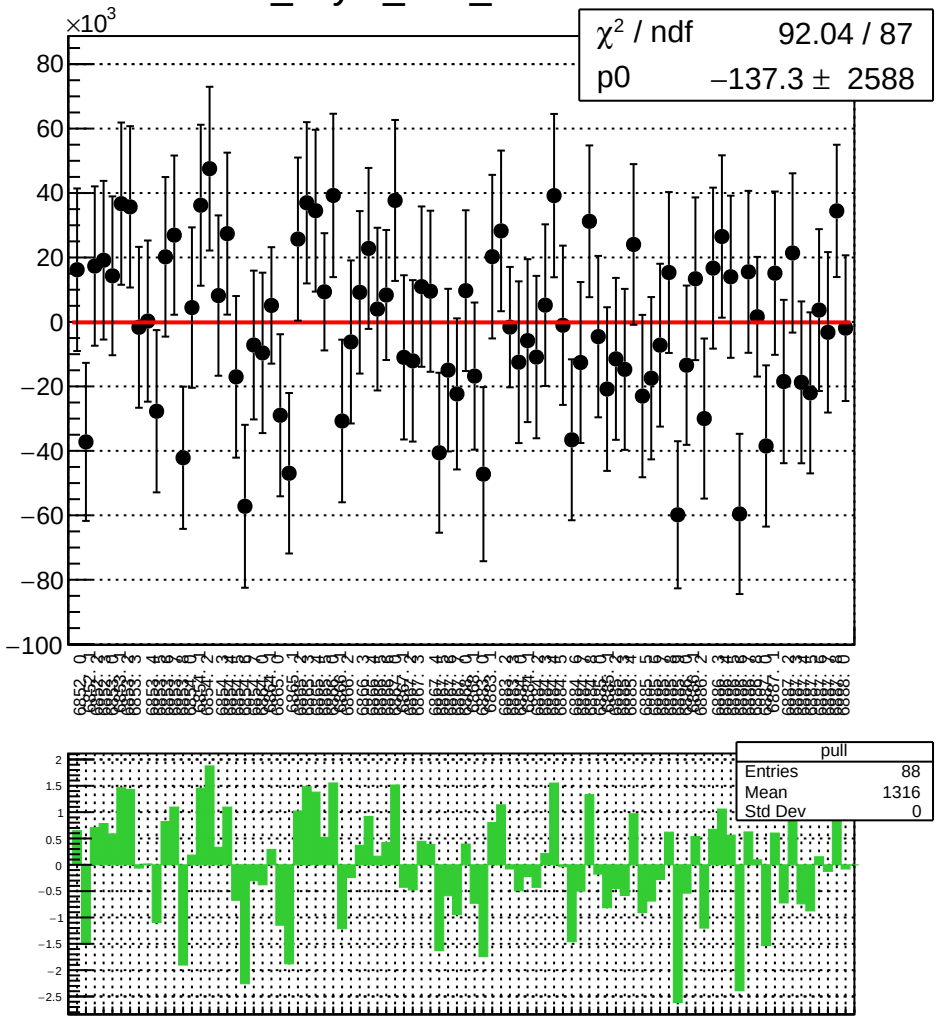

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 92.03 / 87
p0 −136.5 ± 2588
pull
Entries 88
Mean 1315
Std Dev 0

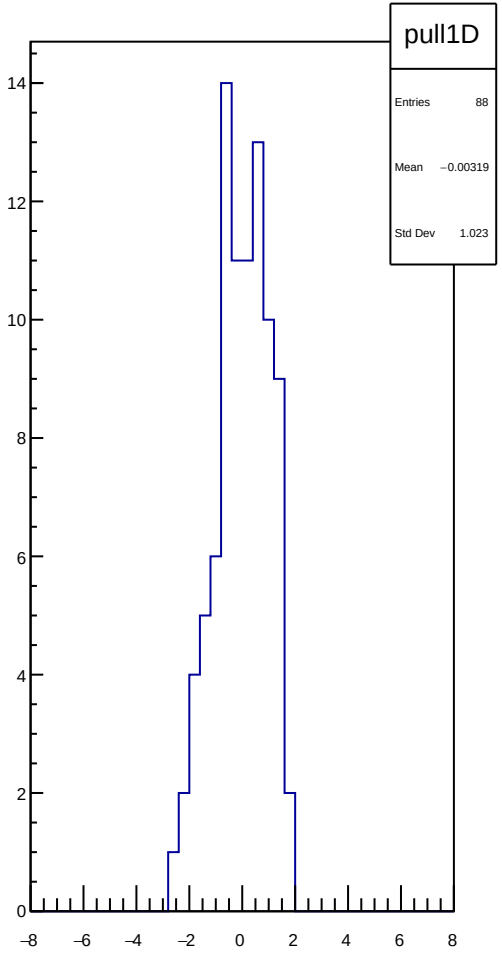

pull1D
Entries 88
Mean −0.003192
Std Dev 1.023

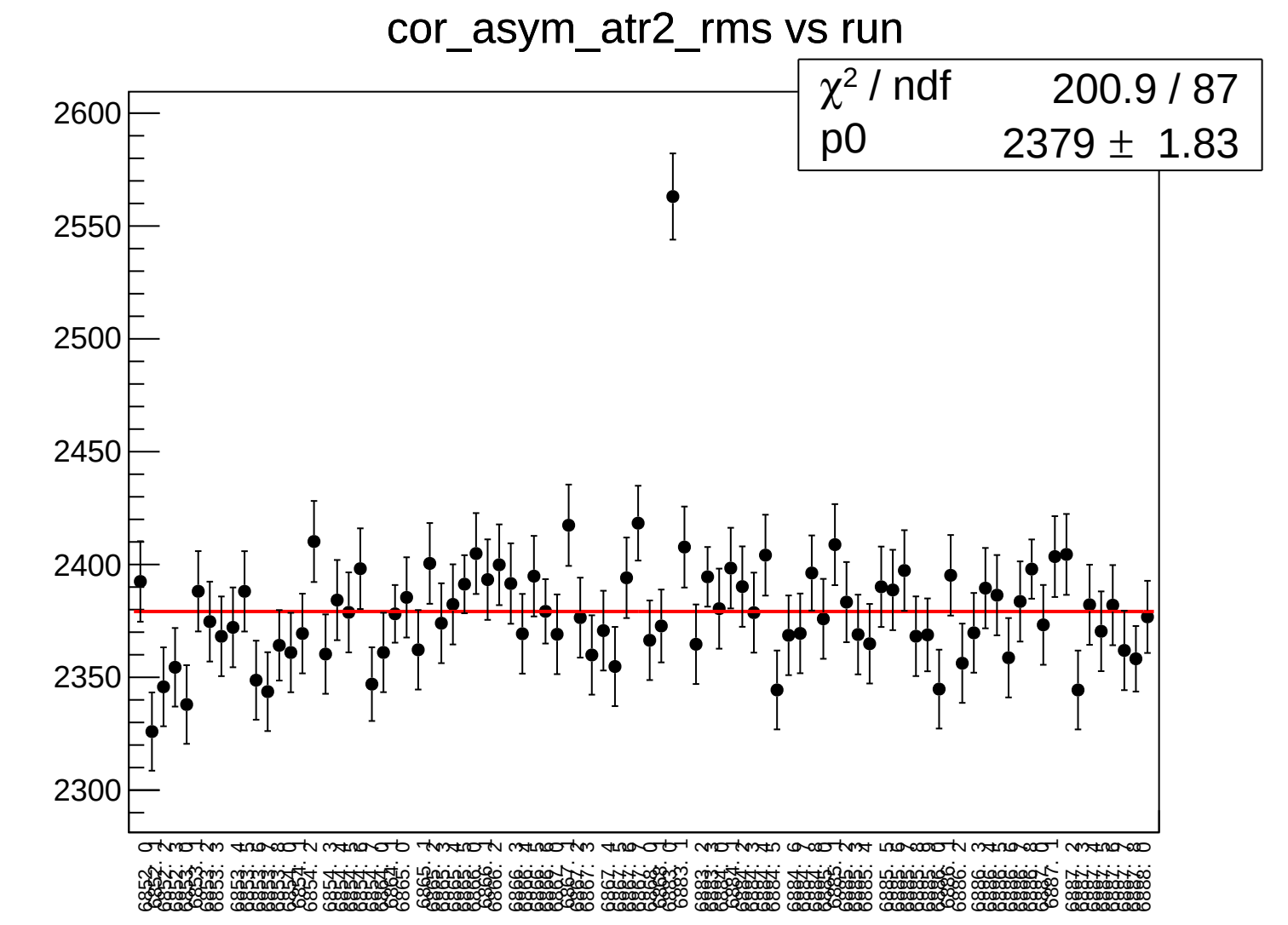

reg_asym_atr2_rms vs run
χ² / ndf 200.9 / 87
p0 2379 ± 1.83
2600
2550
2500
2450
2400
2350
2300

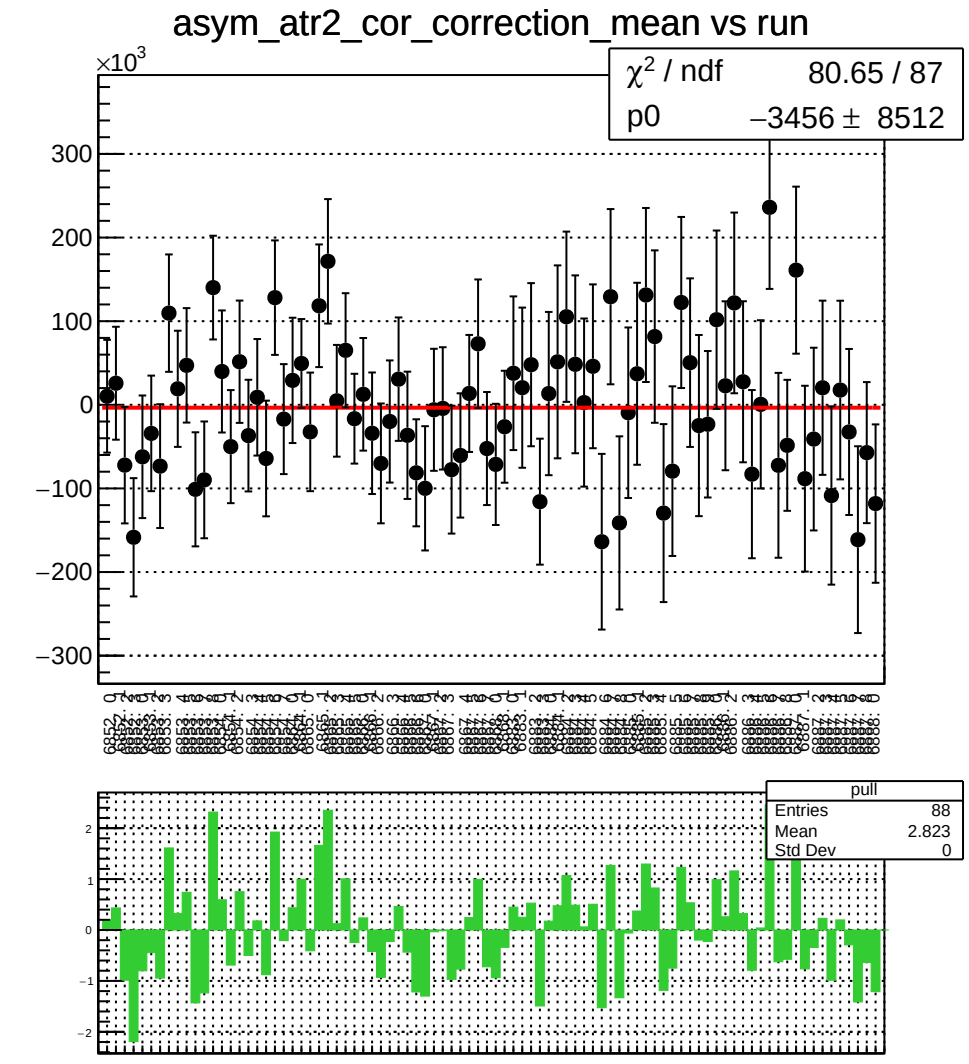

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 80.65 / 87
p0 −3456 ± 8512
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 2.848
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.008416
Std Dev 0.9573
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

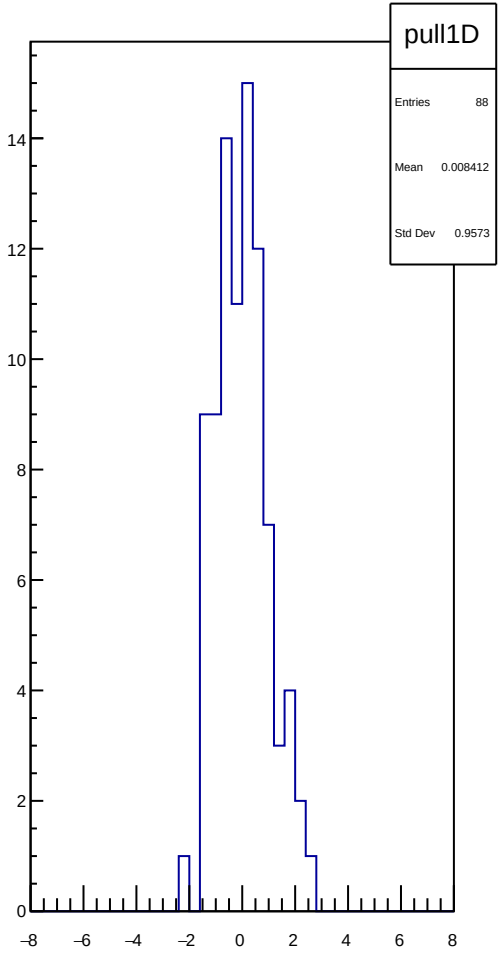

asym_atr2_reg_correction_rms vs run
χ² / ndf 5.537e+04 / 87
p0 7697 ± 6.019
11000
10000
9000
8000
7000
6000

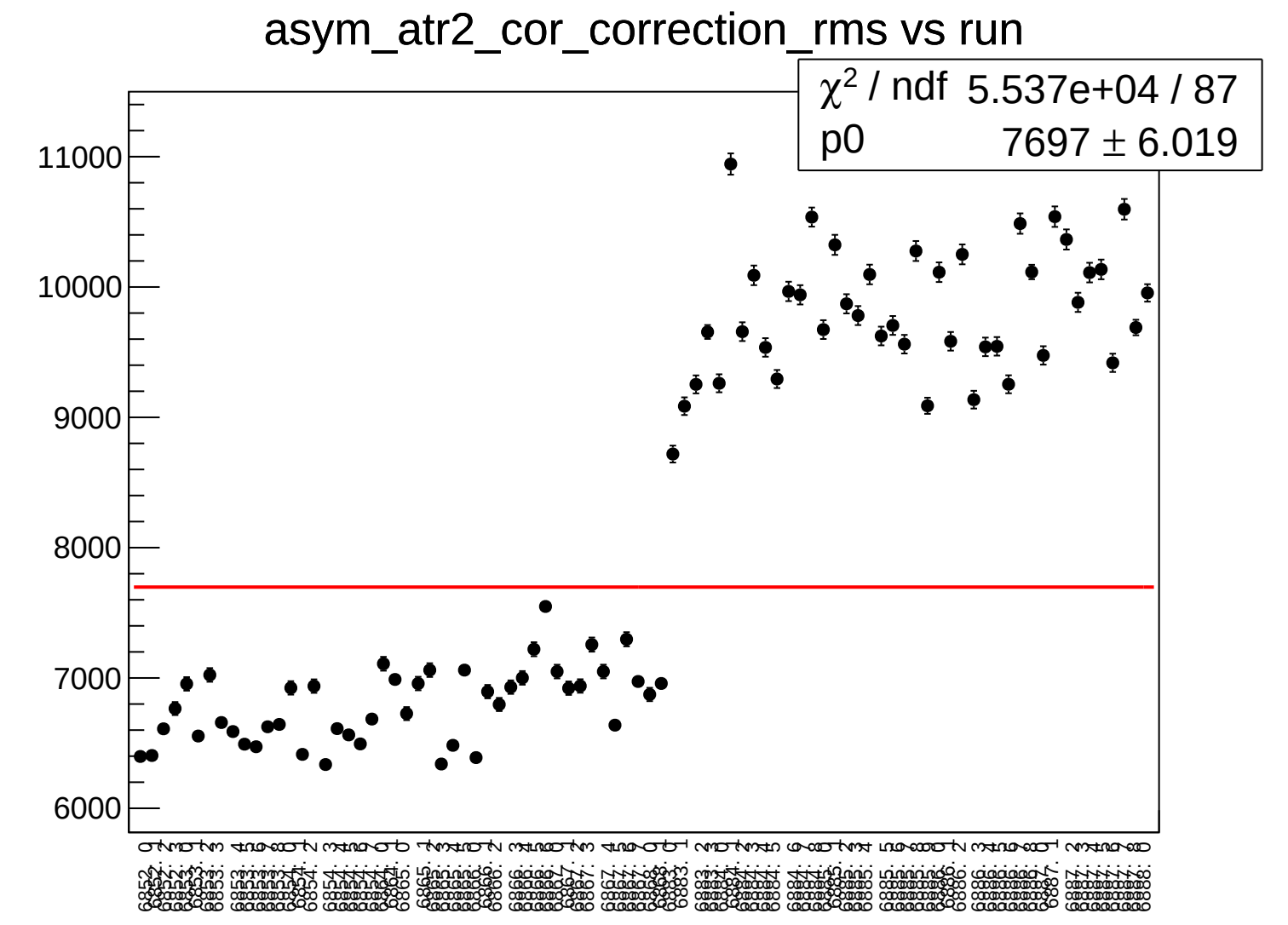

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 92.04 / 87
p0 −137.3 ± 2588
pull
Entries 88
Mean 1316
Std Dev 0

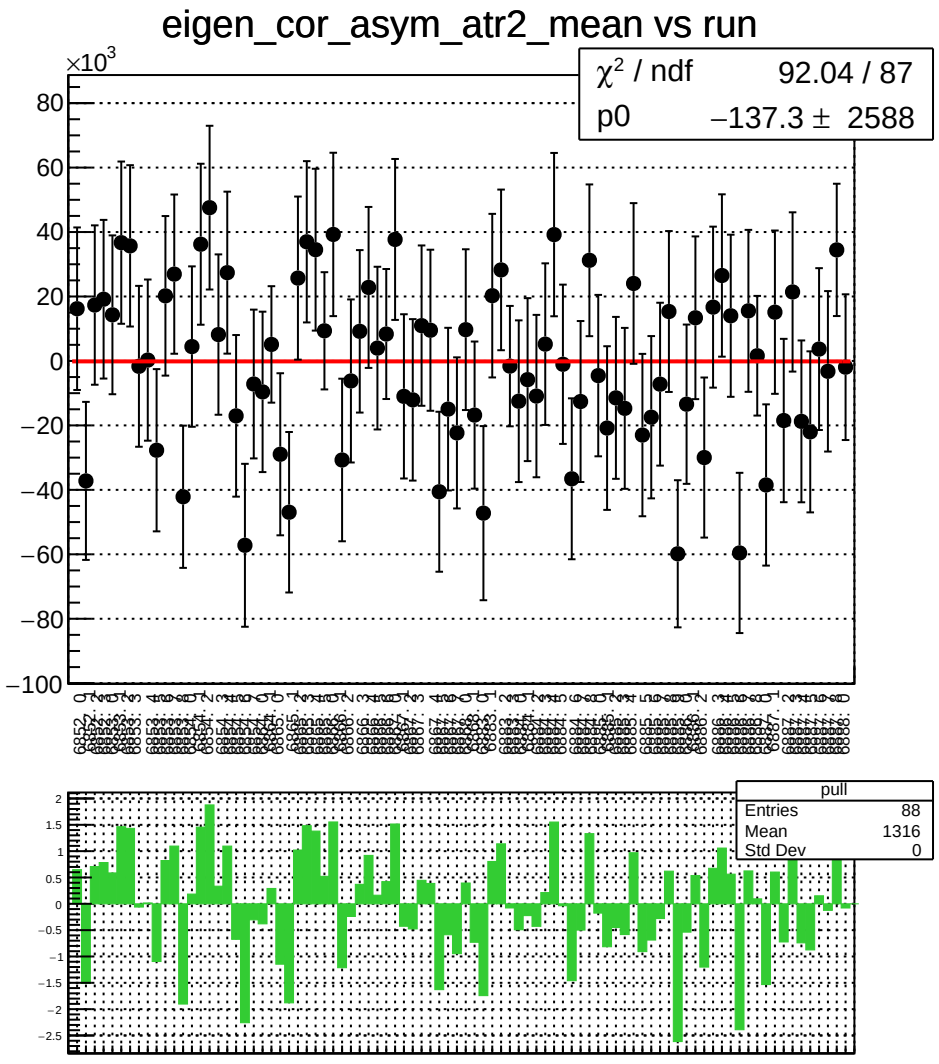

pull1D
Entries 88
Mean −0.00319
Std Dev 1.023

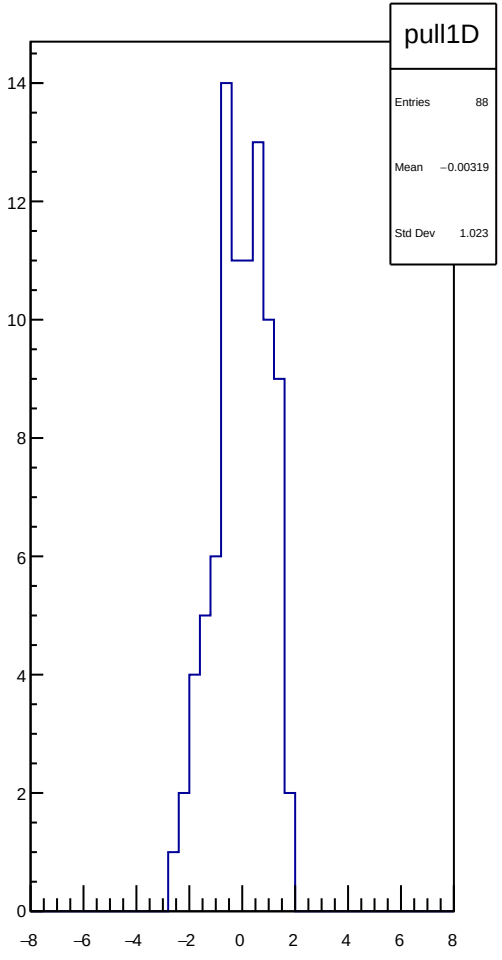

cor_asym_atr2_rms vs run
χ² / ndf 200.9 / 87
p0 2379 ± 1.83
2600
2550
2500
2450
2400
2350
2300

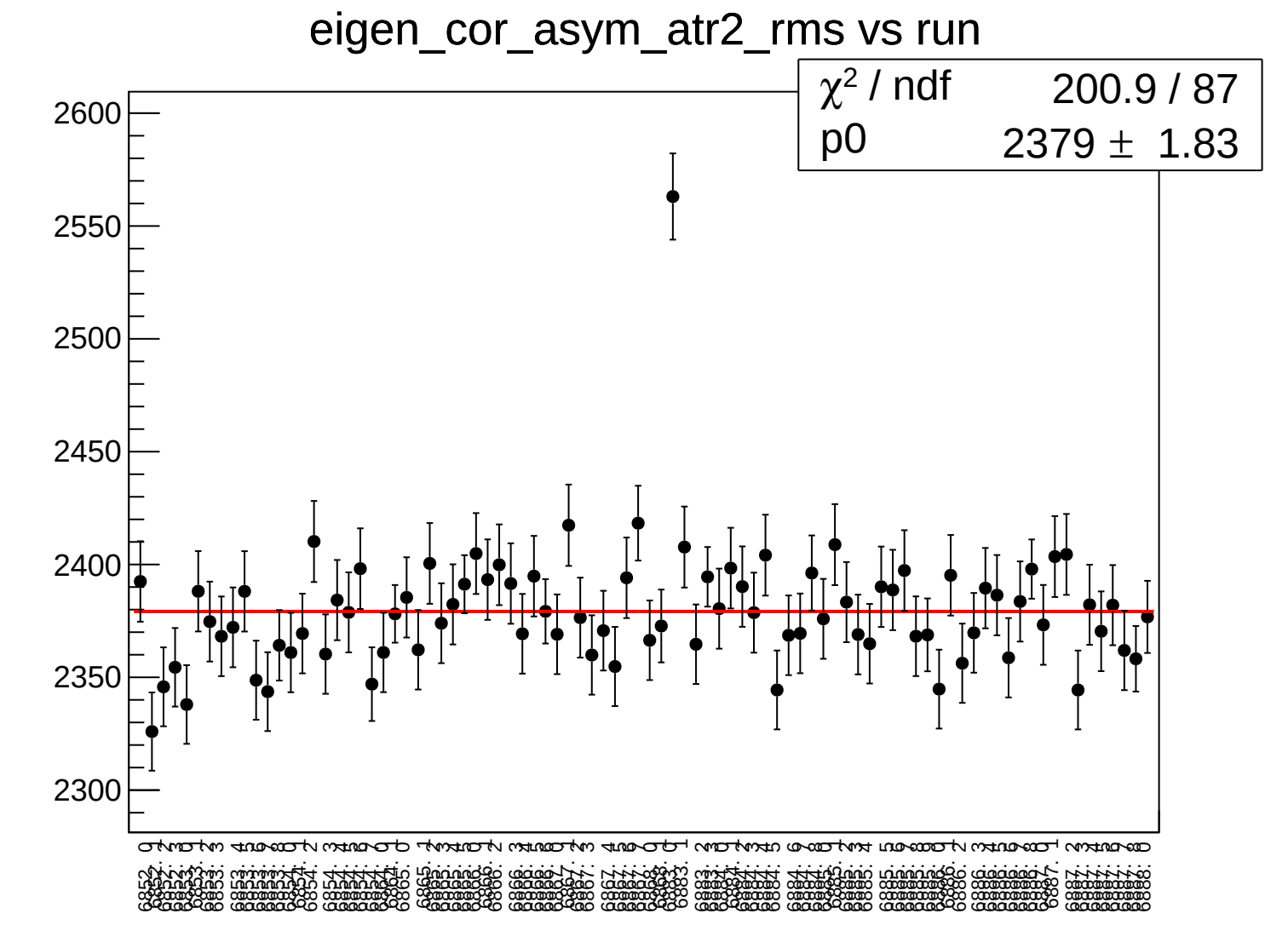

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 80.65 / 87
p0 −3456 ± 8512
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 2.823
Std Dev 0
2
1
0
−1
−2

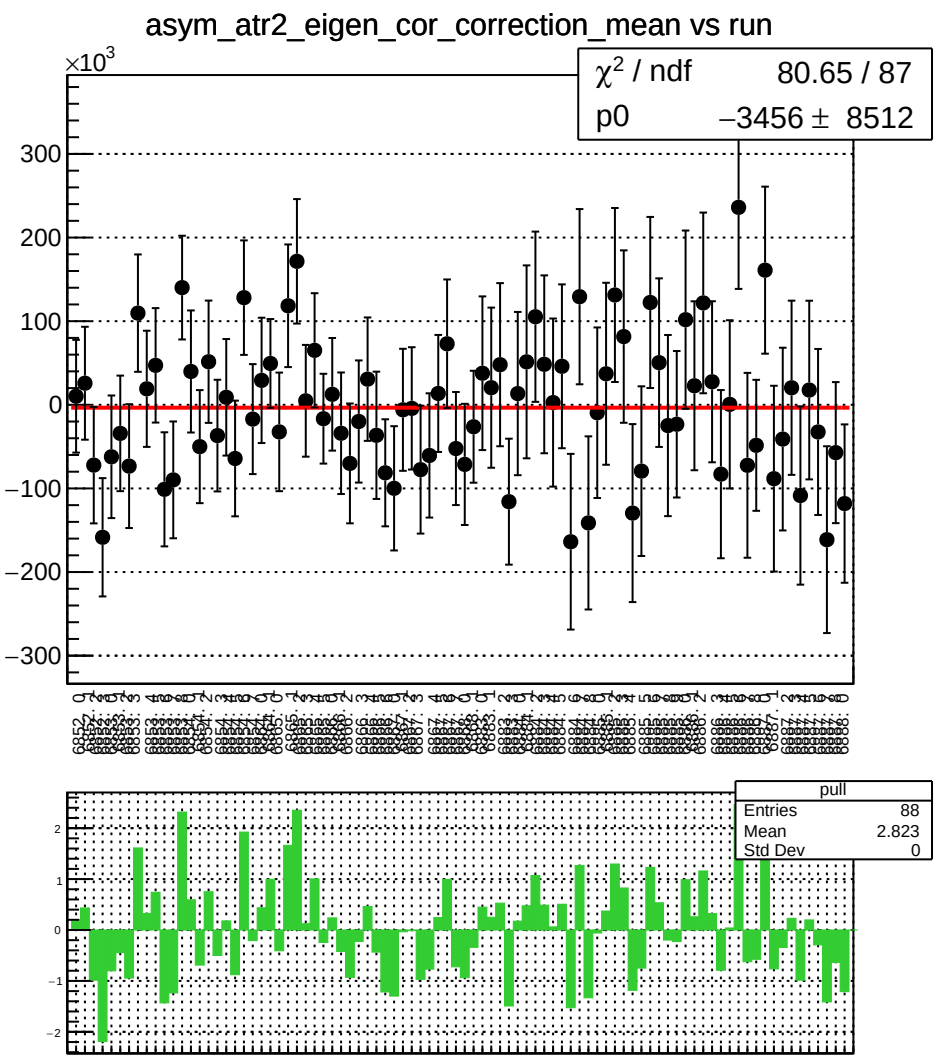

pull1D
Entries 88
Mean 0.008412
Std Dev 0.9573
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

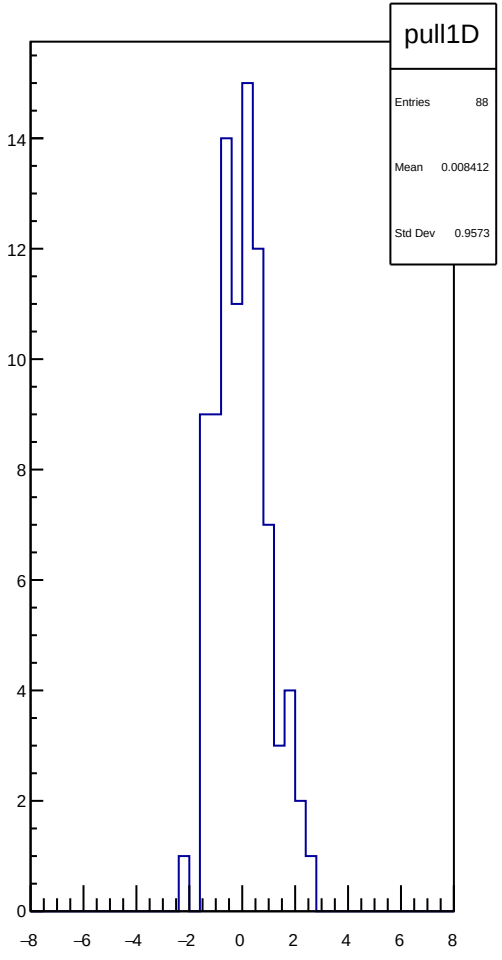

asym_atr2_cor_correction_rms vs run
χ² / ndf 5.537e+04 / 87
p0 7697 ± 6.019
11000
10000
9000
8000
7000
6000

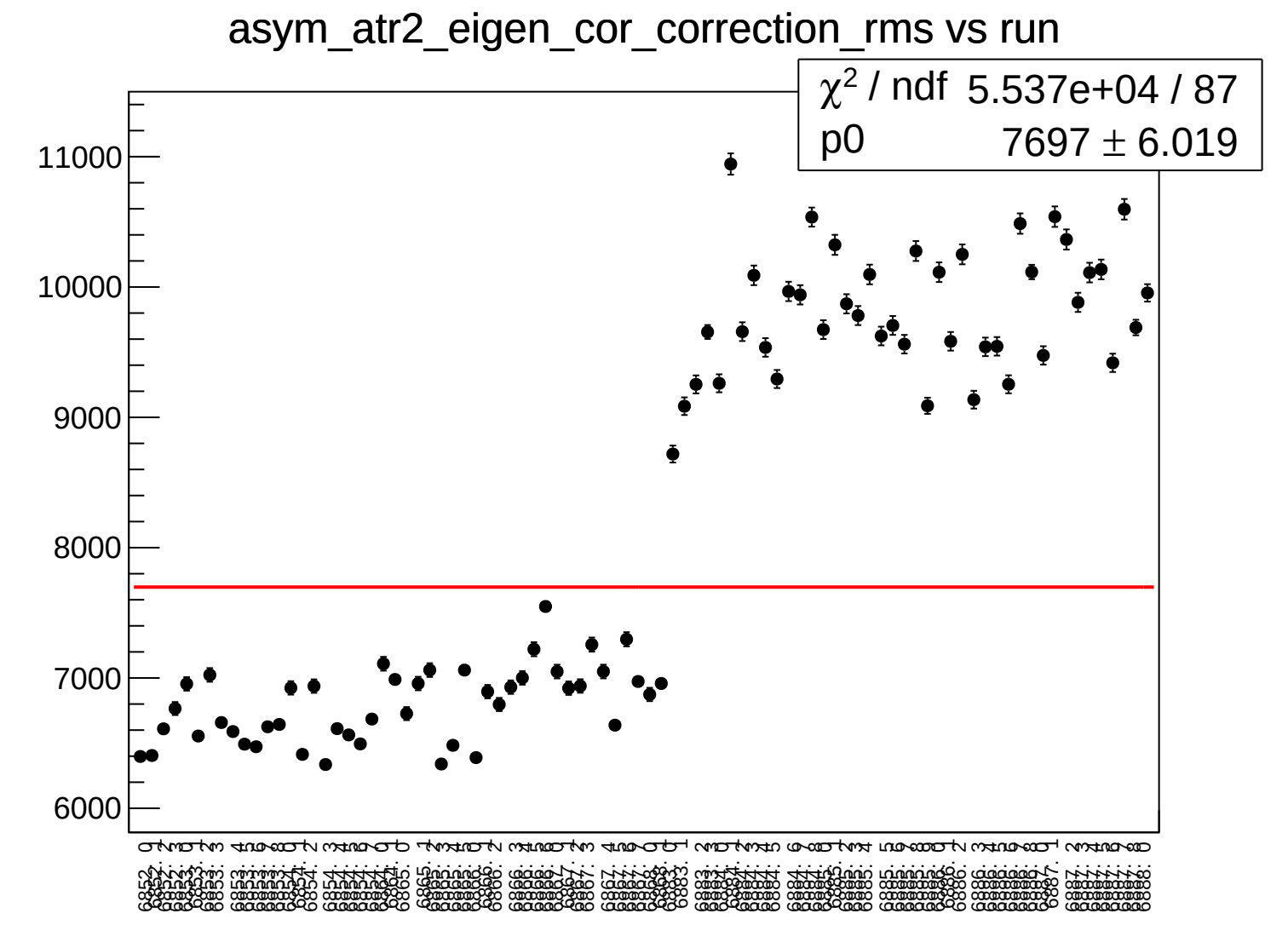

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 92.04 / 87
p0 −137.3 ± 2588
pull
Entries 88
Mean 1316
Std Dev 0

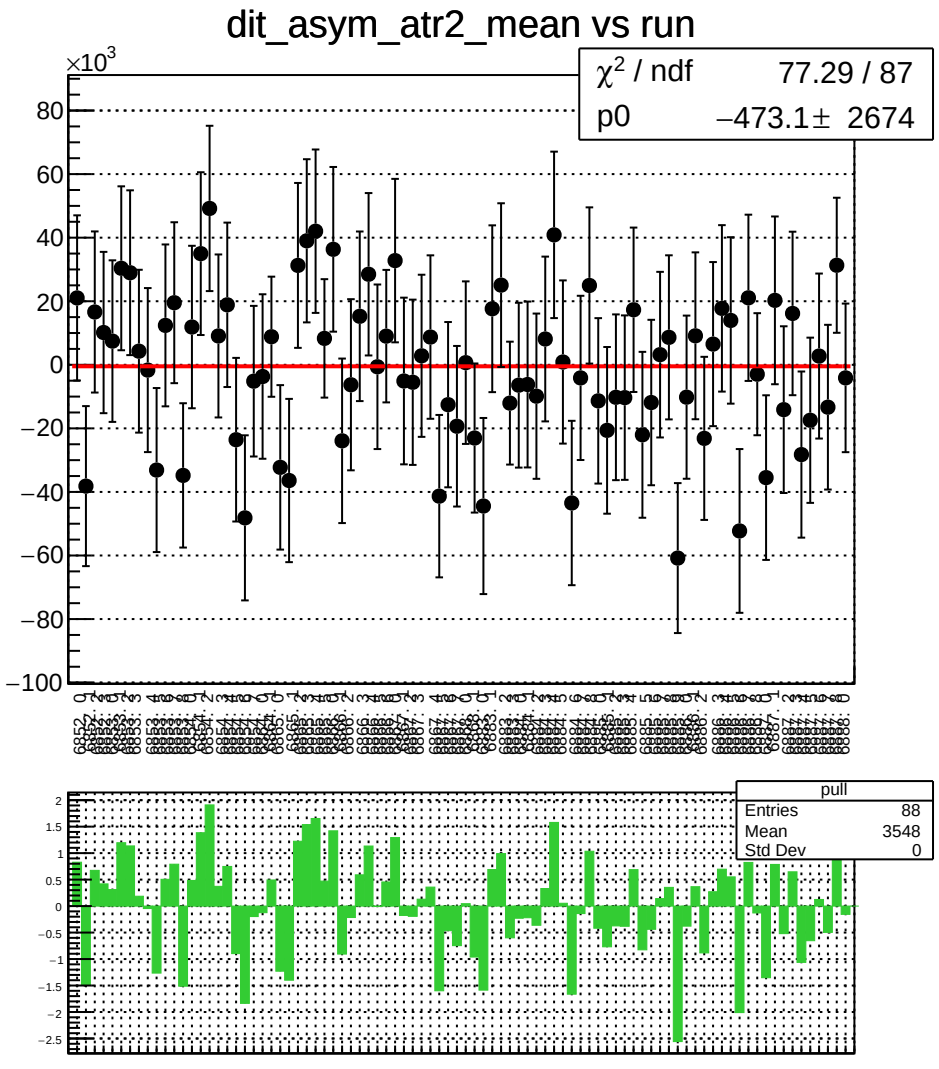

pull1D
Entries 88
Mean −0.00319
Std Dev 1.023

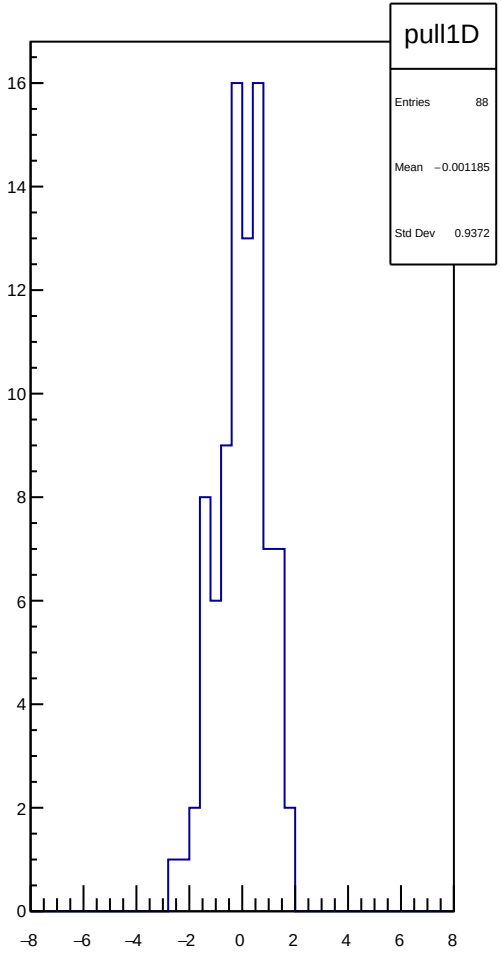

eigen_cor_asym_atr2_rms vs run
χ² / ndf 200.9 / 87
p0 2379 ± 1.83
2600
2550
2500
2450
2400
2350
2300

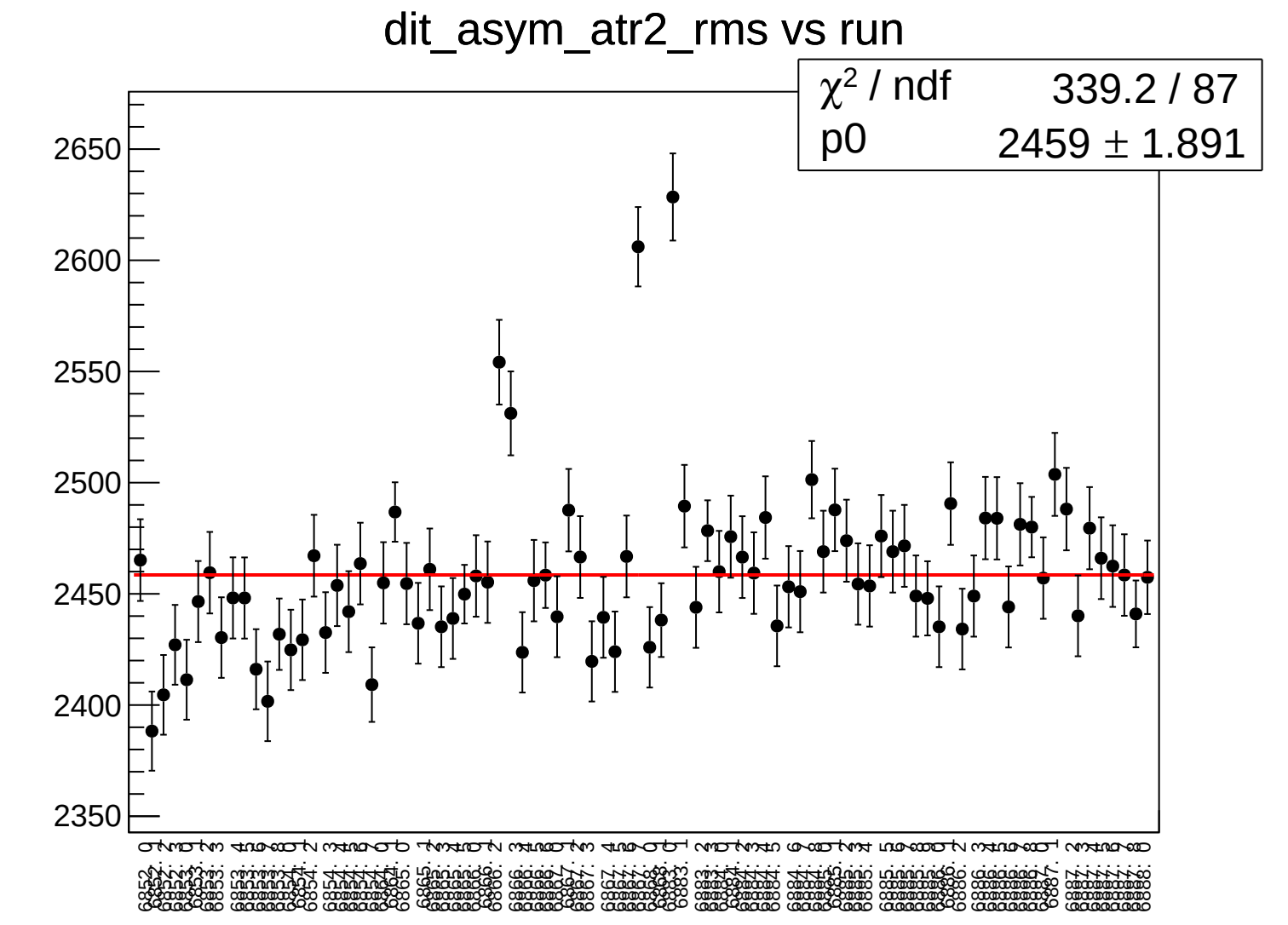

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 80.65 / 87
p0 −3456 ± 8512
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 2.823
Std Dev 0
2
1
0
−1
−2

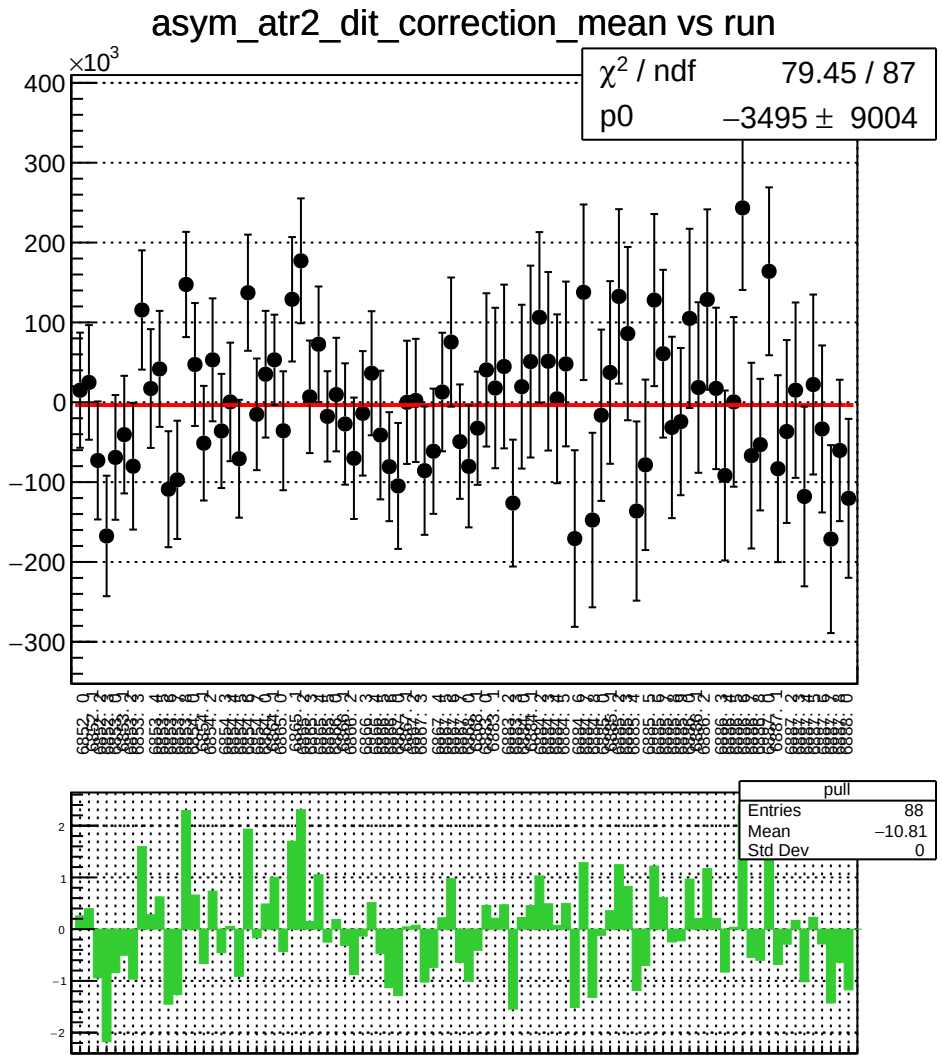

pull1D
Entries 88
Mean 0.008412
Std Dev 0.9573
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

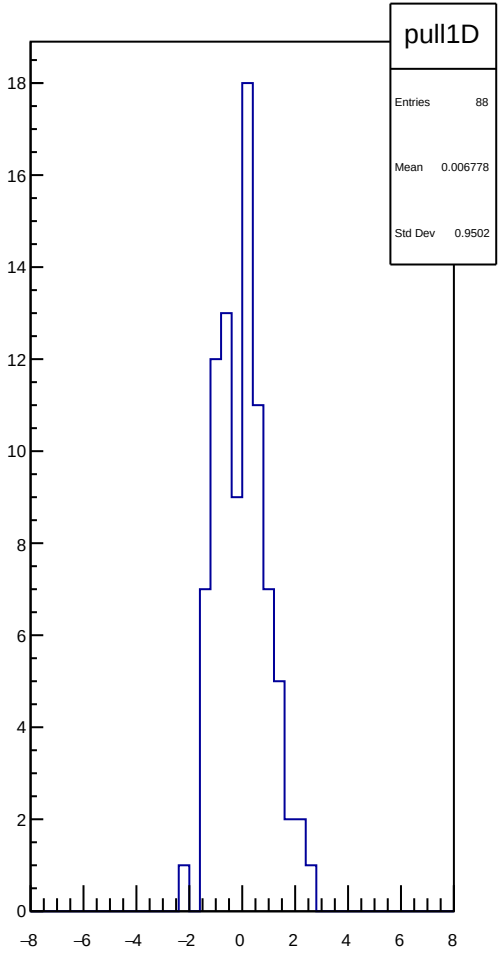

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 5.537e+04 / 87
p0 7697 ± 6.019
11000
10000
9000
8000
7000
6000

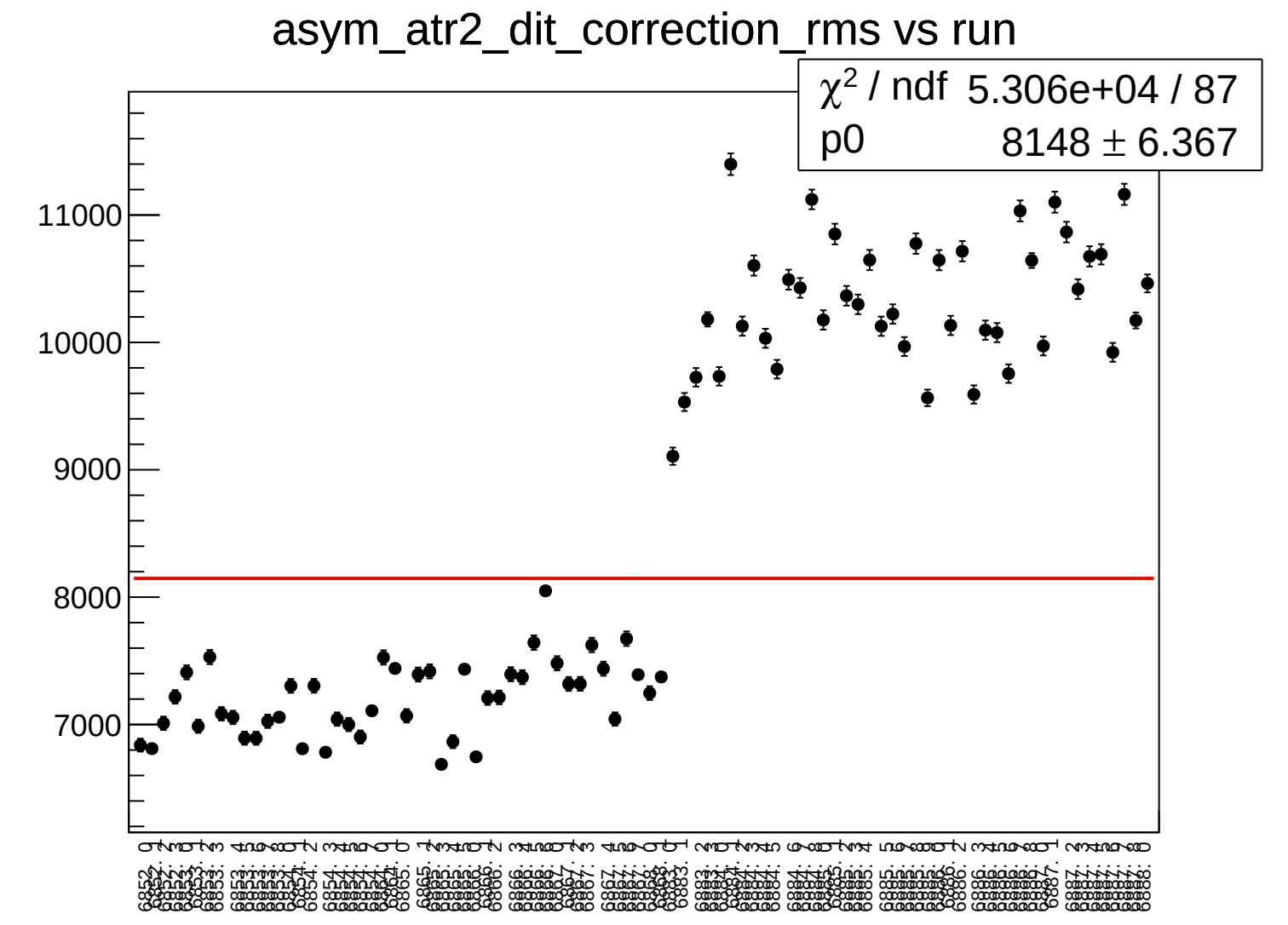

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 77.29 / 87
p0 −473.1± 2674
pull
Entries 88
Mean 3548
Std Dev 0

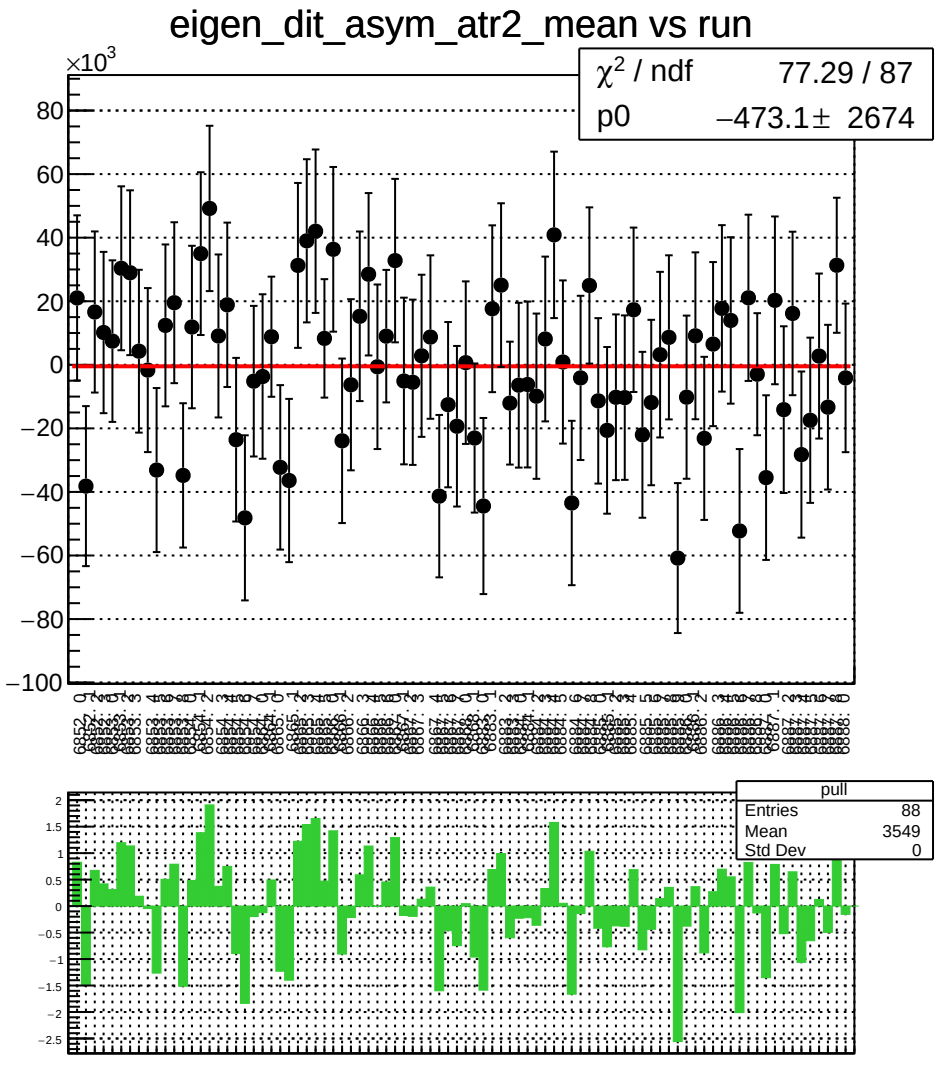

pull1D
Entries 88
Mean −0.001185
Std Dev 0.9372

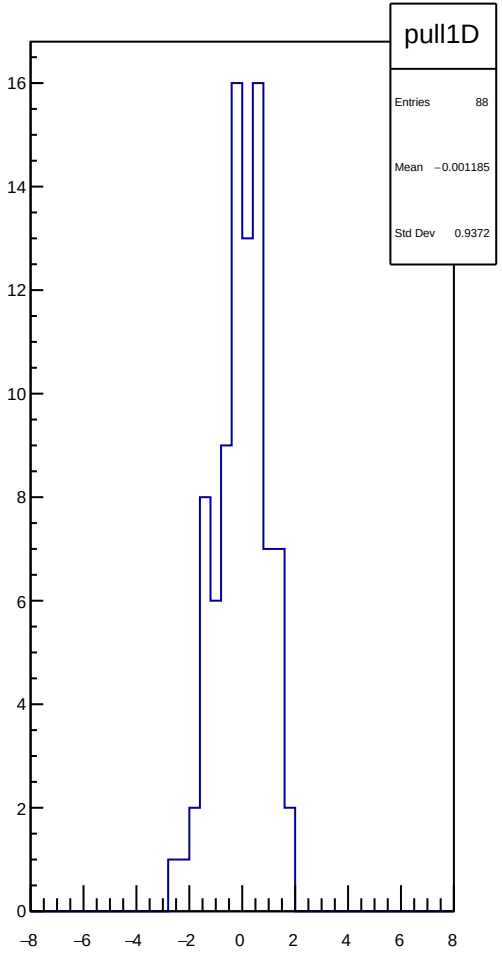

dit_asym_atr2_rms vs run
χ² / ndf 339.2 / 87
p0 2459 ± 1.891
2650
2600
2550
2500
2450
2400
2350

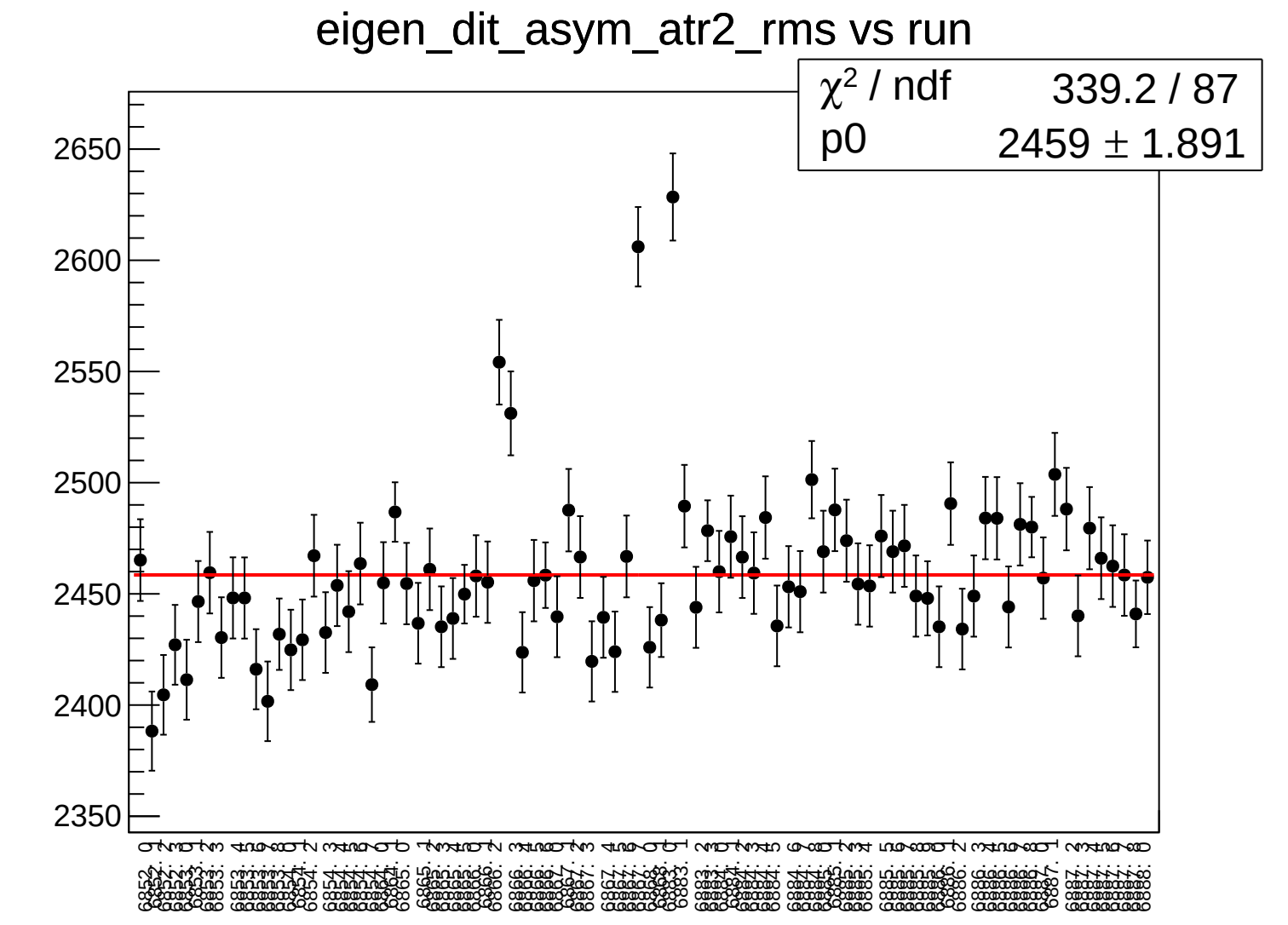

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 79.45 / 87
p0 −3495 ± 9004
pull
Entries 88
Mean −10.81
Std Dev 0

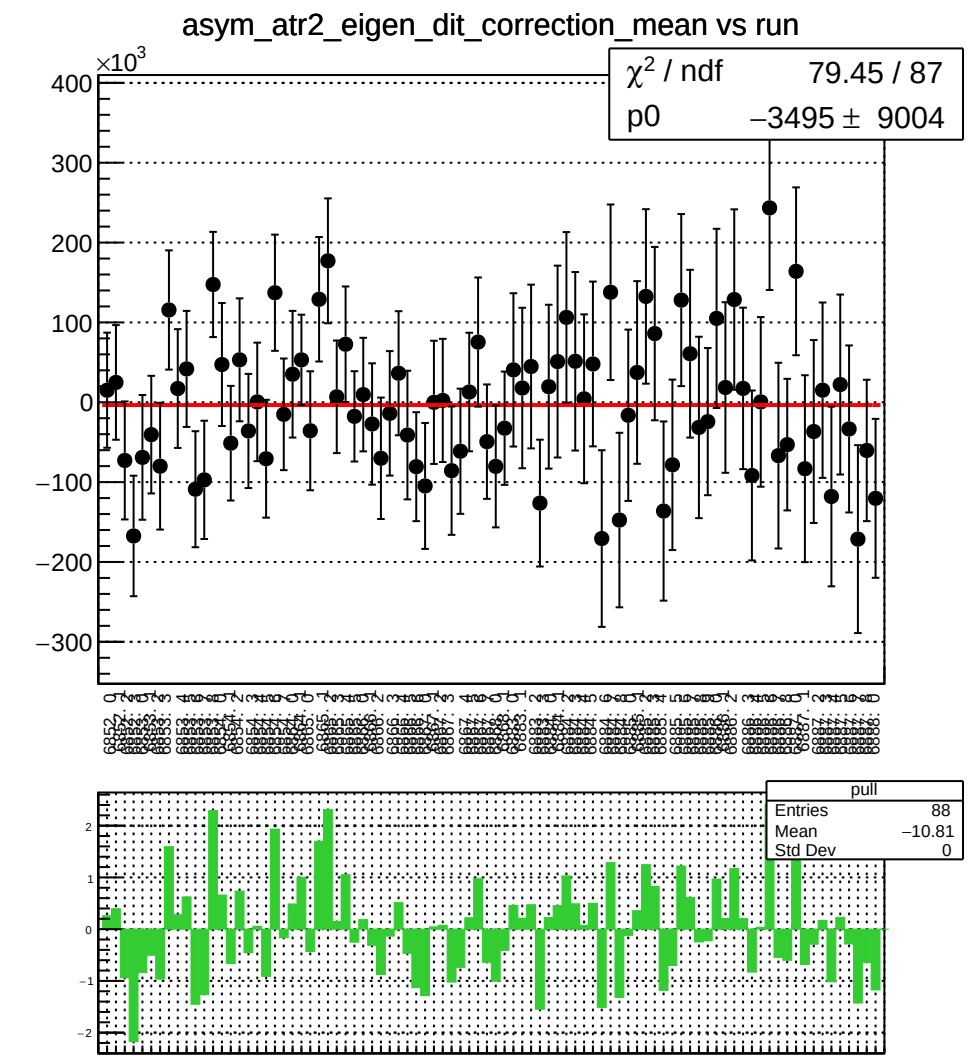

pull1D
Entries 88
Mean 0.006778
Std Dev 0.9502

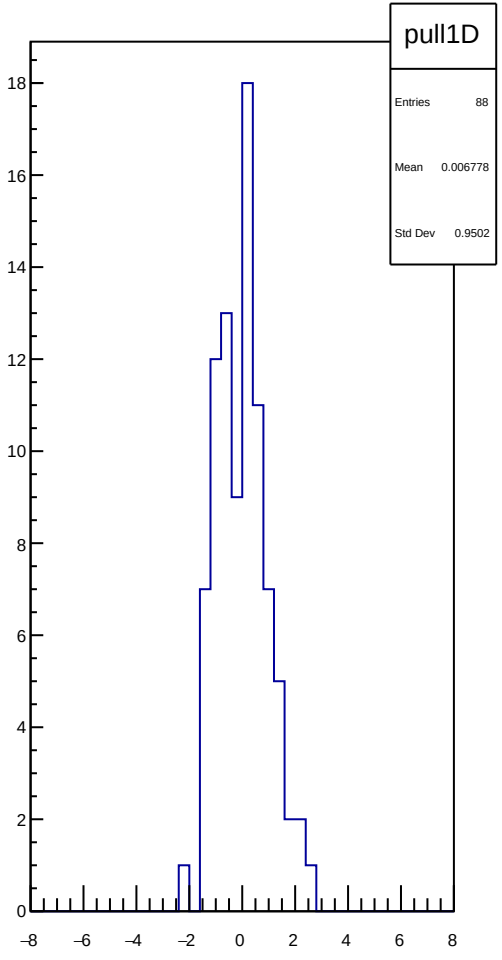

asym_atr2_dit_correction_rms vs run
χ² / ndf 5.306e+04 / 87
p0 8148 ± 6.367
11000
10000
9000
8000
7000

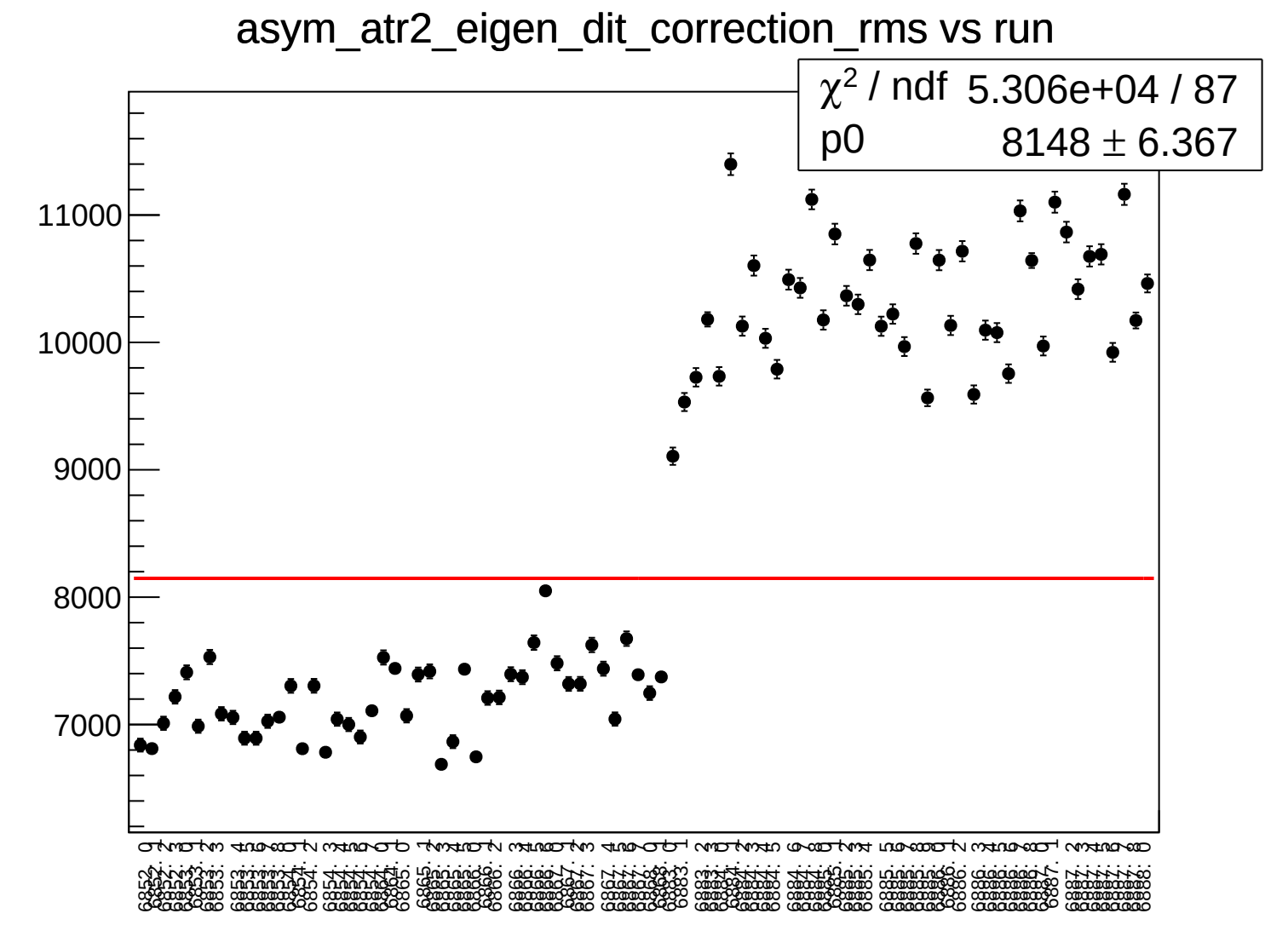

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 77.29 / 87
p0 −473.1± 2674
pull
Entries 88
Mean 3549
Std Dev 0

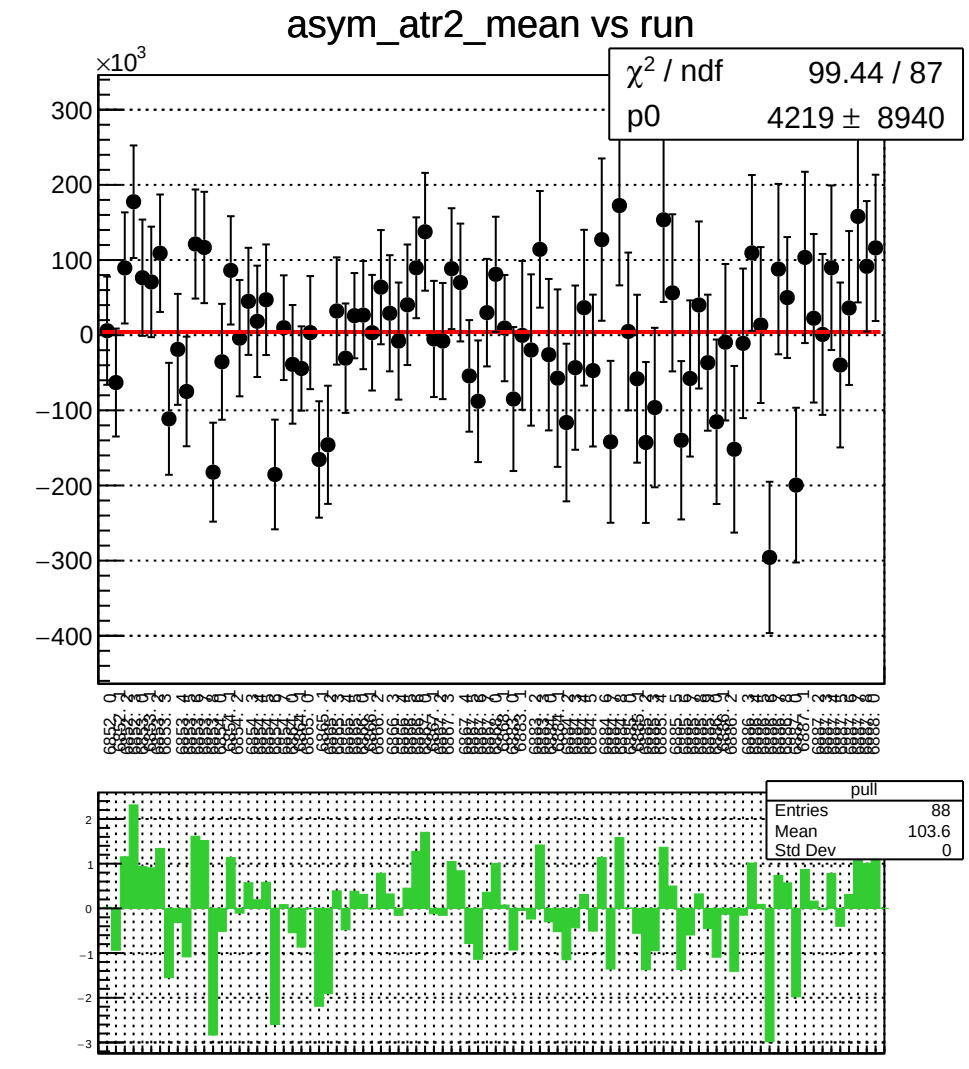

pull1D
Entries 88
Mean −0.001185
Std Dev 0.9372

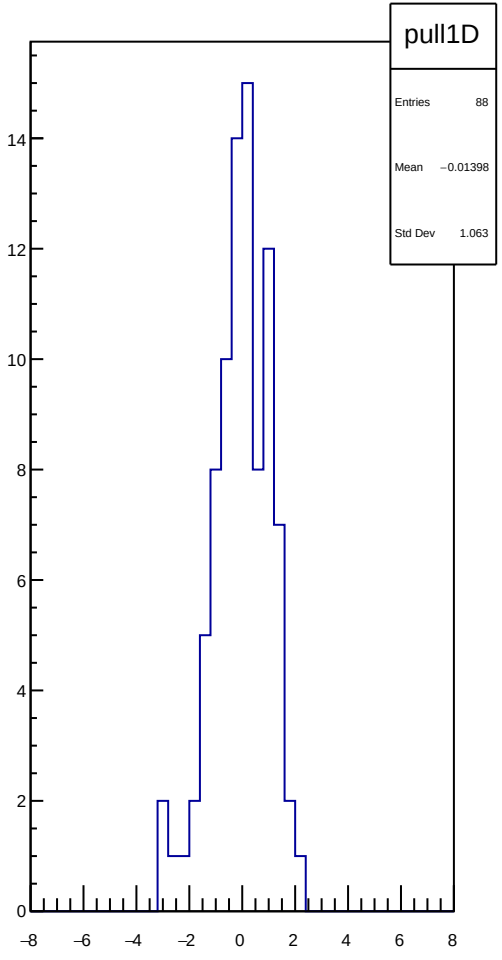

eigen_dit_asym_atr2_rms vs run
χ^2 / ndf 339.2 / 87
p0 2459 ± 1.891
2650
2600
2550
2500
2450
2400
2350

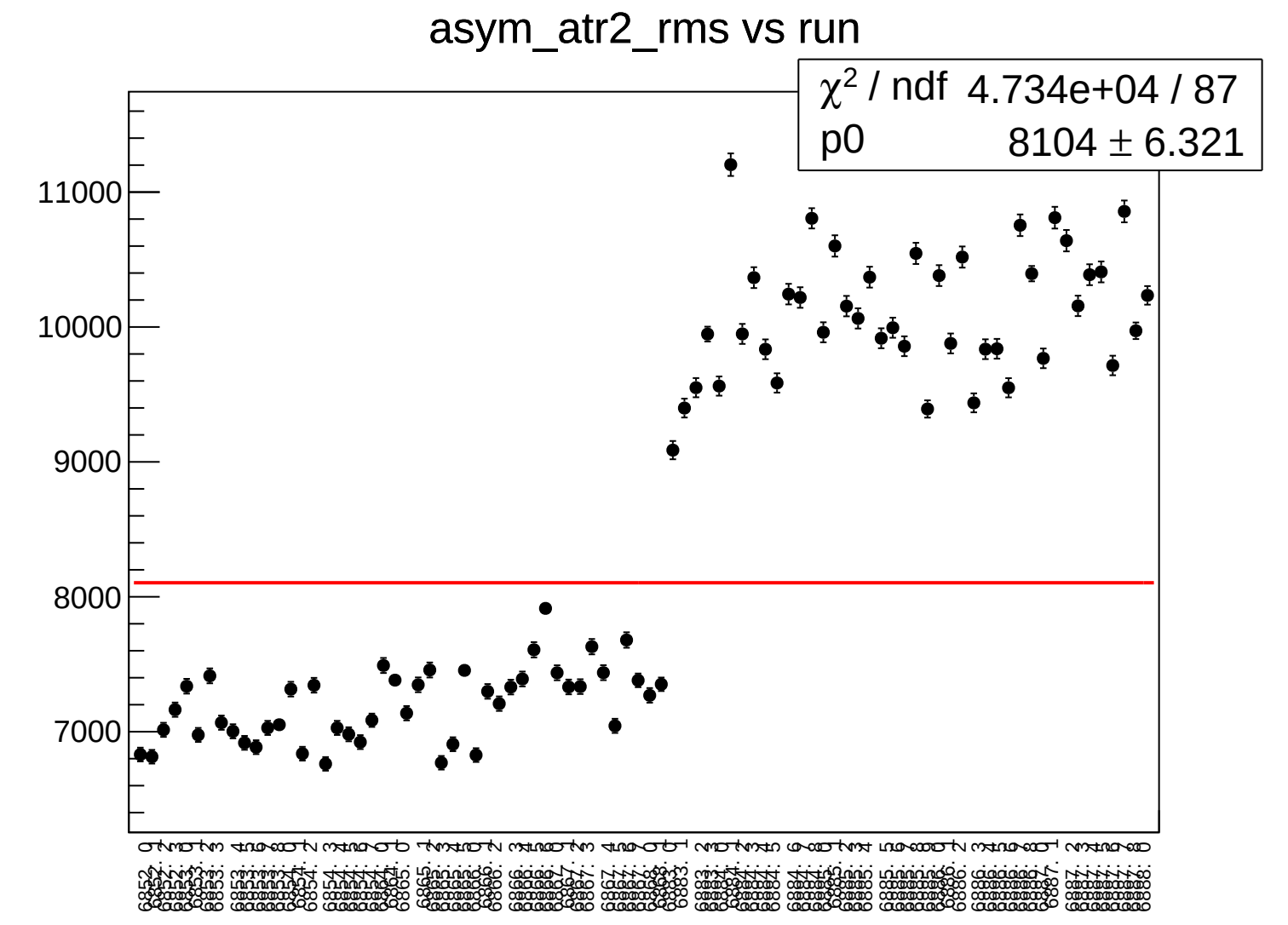

asym_atr2_eigen_dit_correction_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
χ² / ndf 79.45 / 87
p0 −3495 ± 9004
pull
Entries 88
Mean −10.81
Std Dev 0
2
1
0
−1
−2

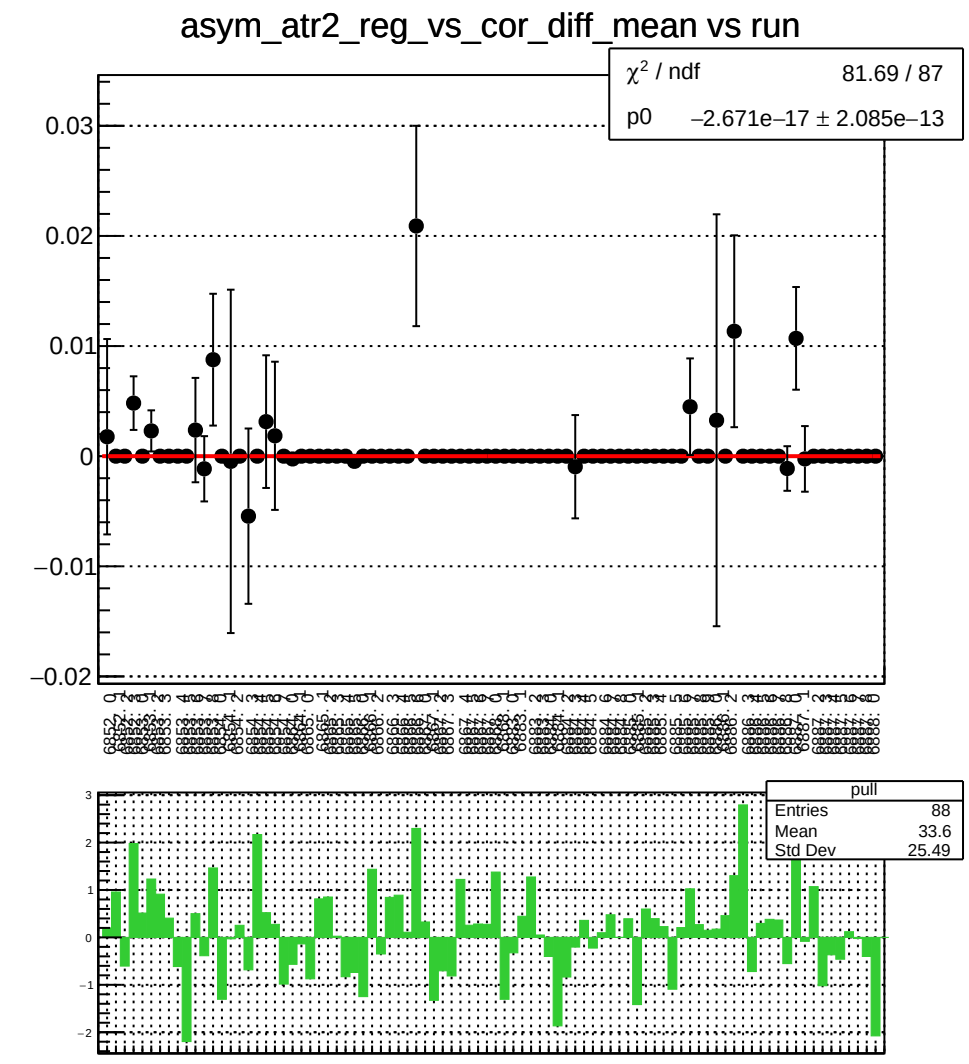

pull1D
Entries 88
Mean 0.006778
Std Dev 0.9502
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

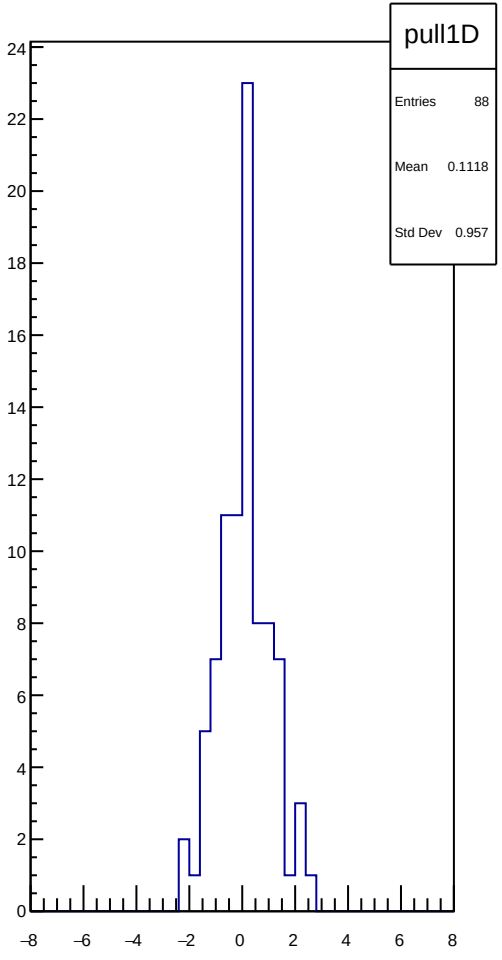

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 5.306e+04 / 87
p0 8148 ± 6.367
11000
10000
9000
8000
7000

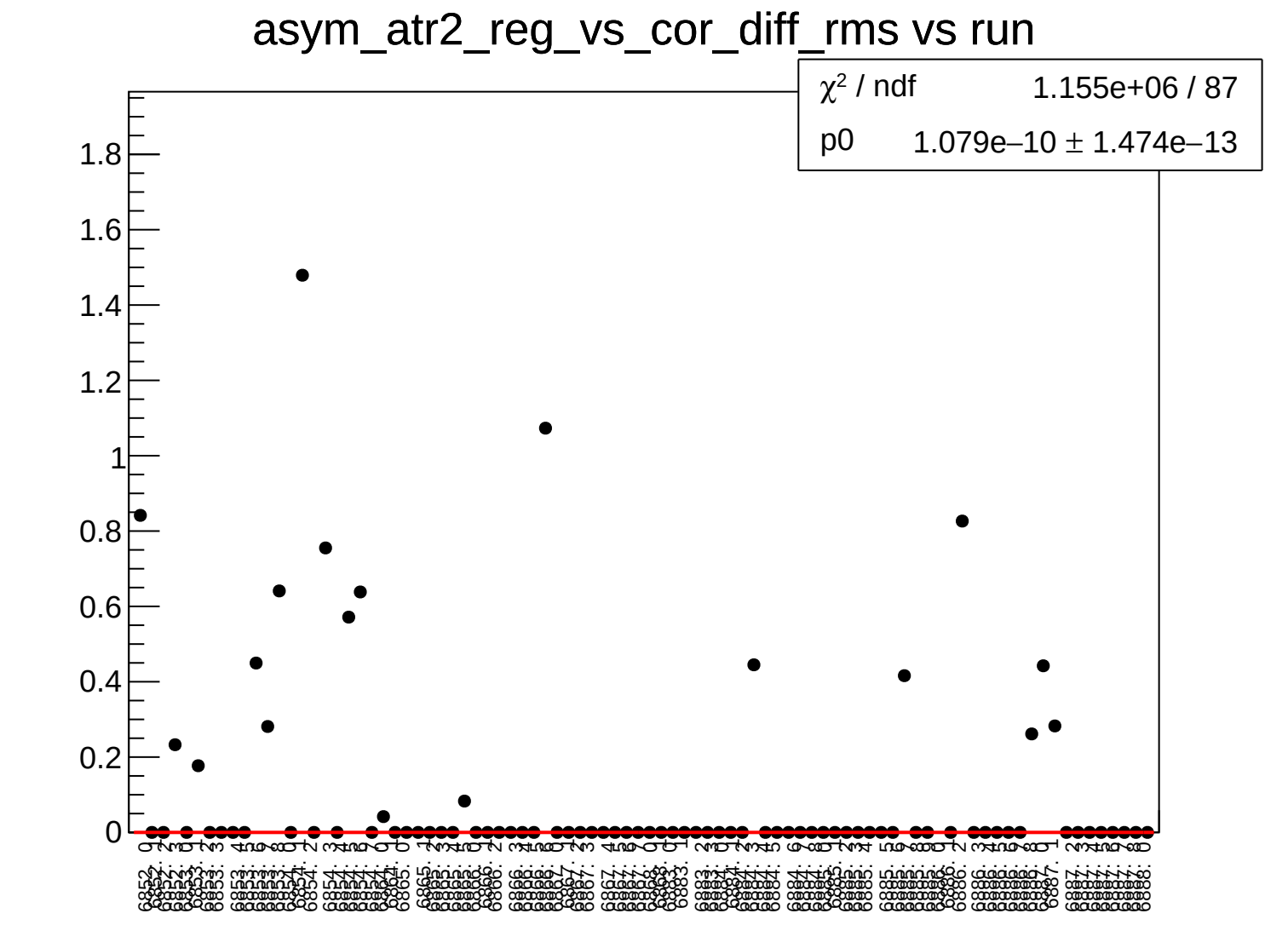

asym_atr2_mean vs run
×10^3
χ^2 / ndf 99.44 / 87
p0 4219 ± 8940
pull
Entries 88
Mean 103.6
Std Dev 0

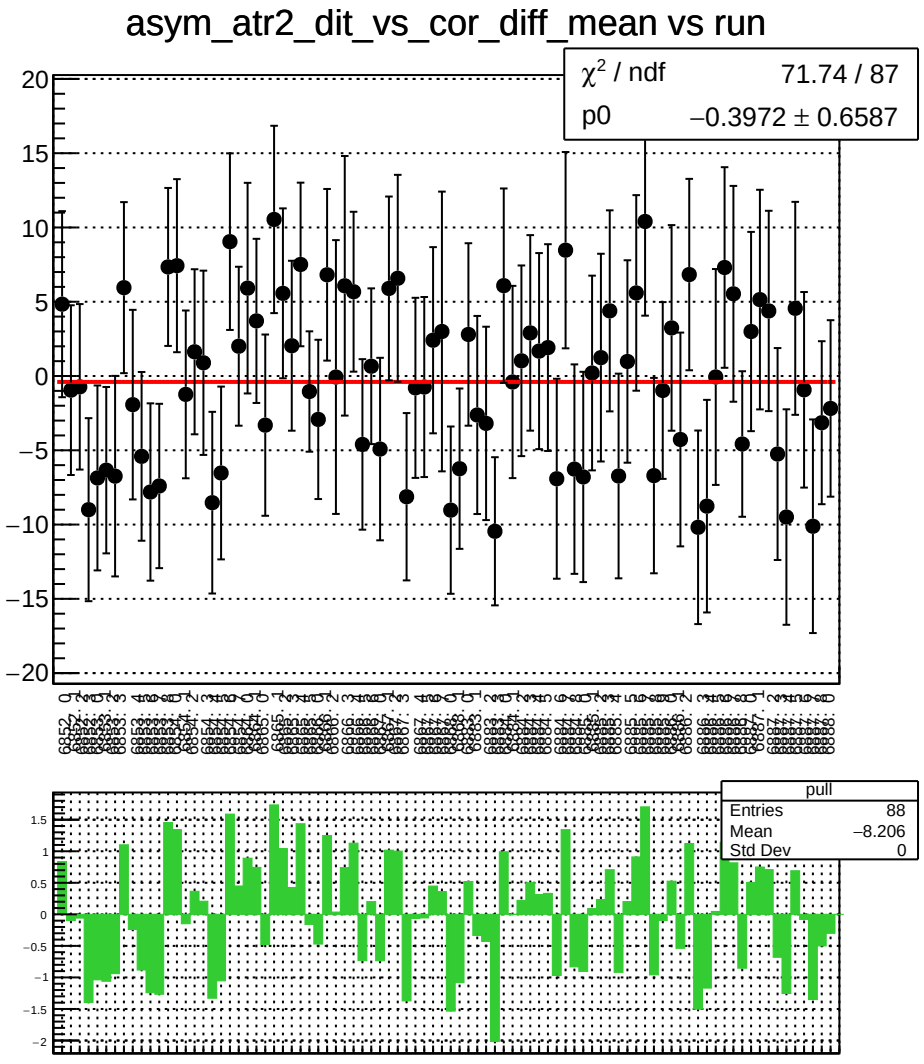

pull1D
Entries 88
Mean −0.01398
Std Dev 1.063

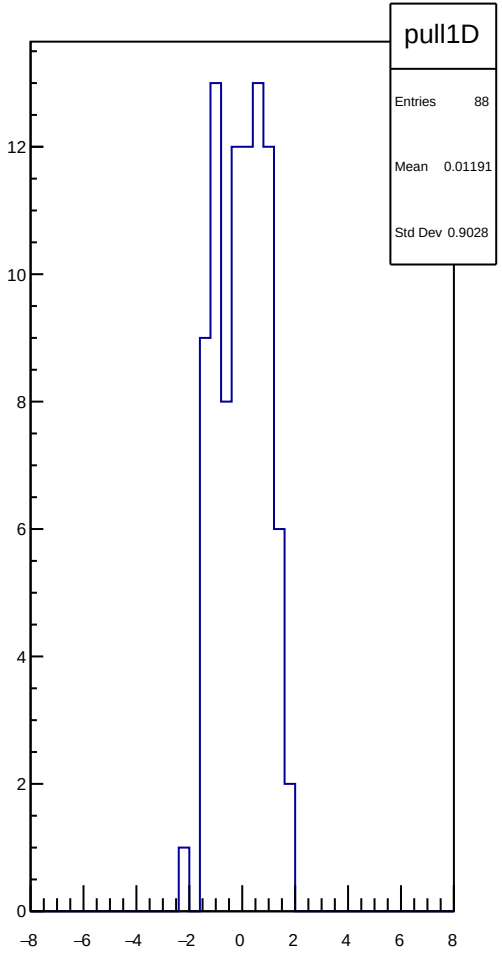

asym_atr2_rms vs run
χ² / ndf 4.734e+04 / 87
p0 8104 ± 6.321
11000
10000
9000
8000
7000

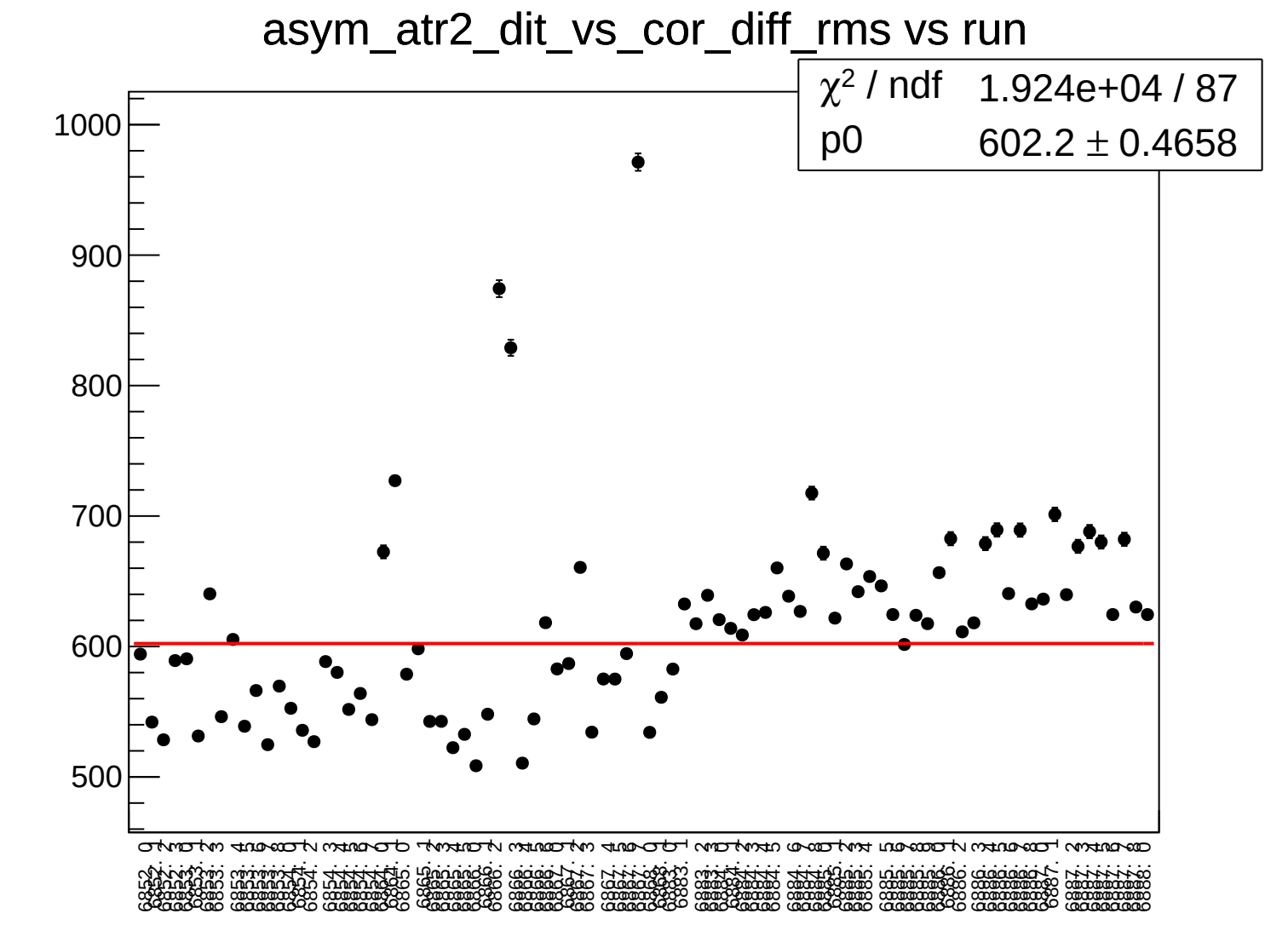

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 81.69 / 87
p0 −2.671e−17 ± 2.085e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 33.6
Std Dev 25.49
3
2
1
0
−1
−2

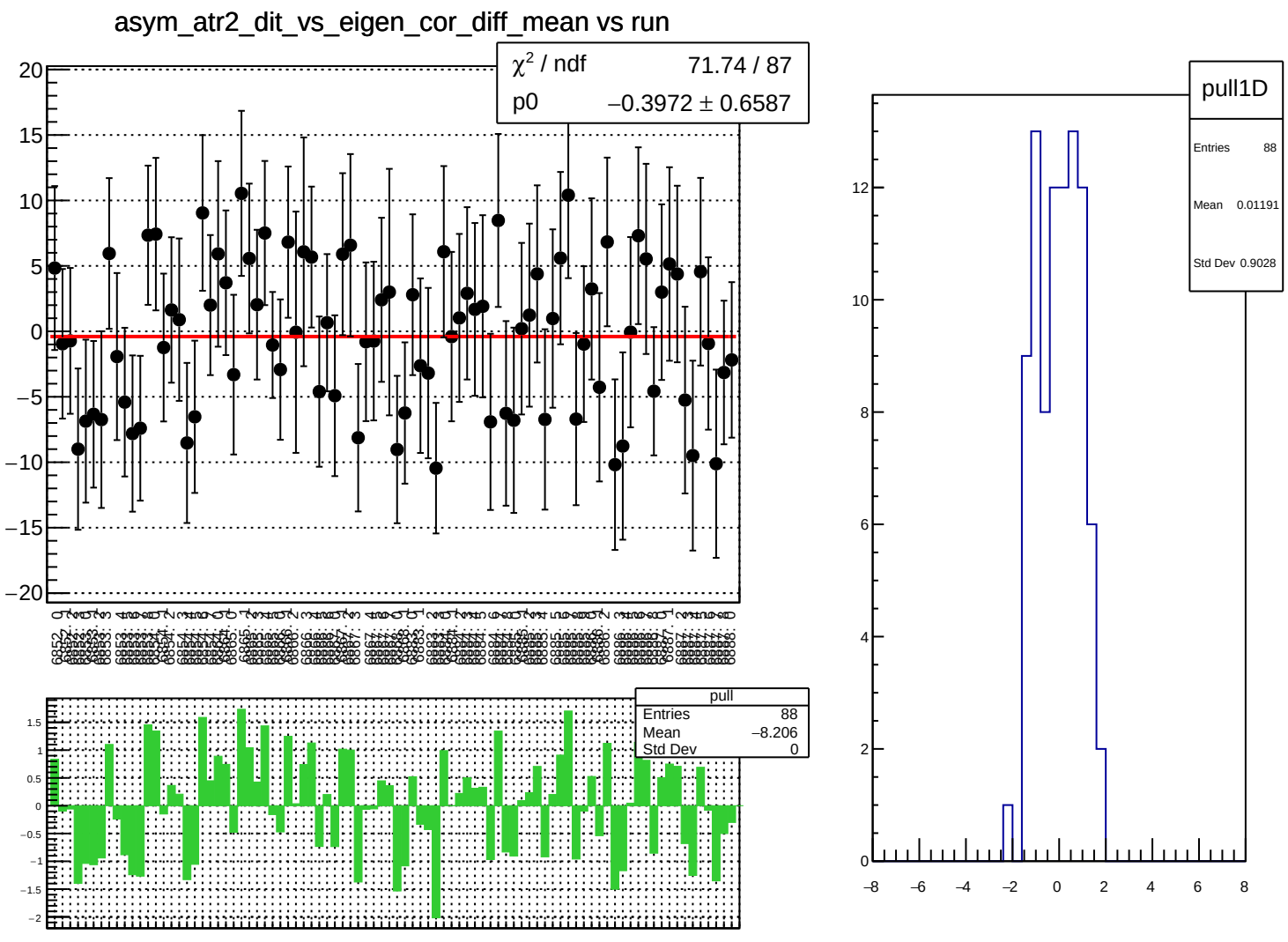

pull1D
Entries 88
Mean 0.1118
Std Dev 0.957
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

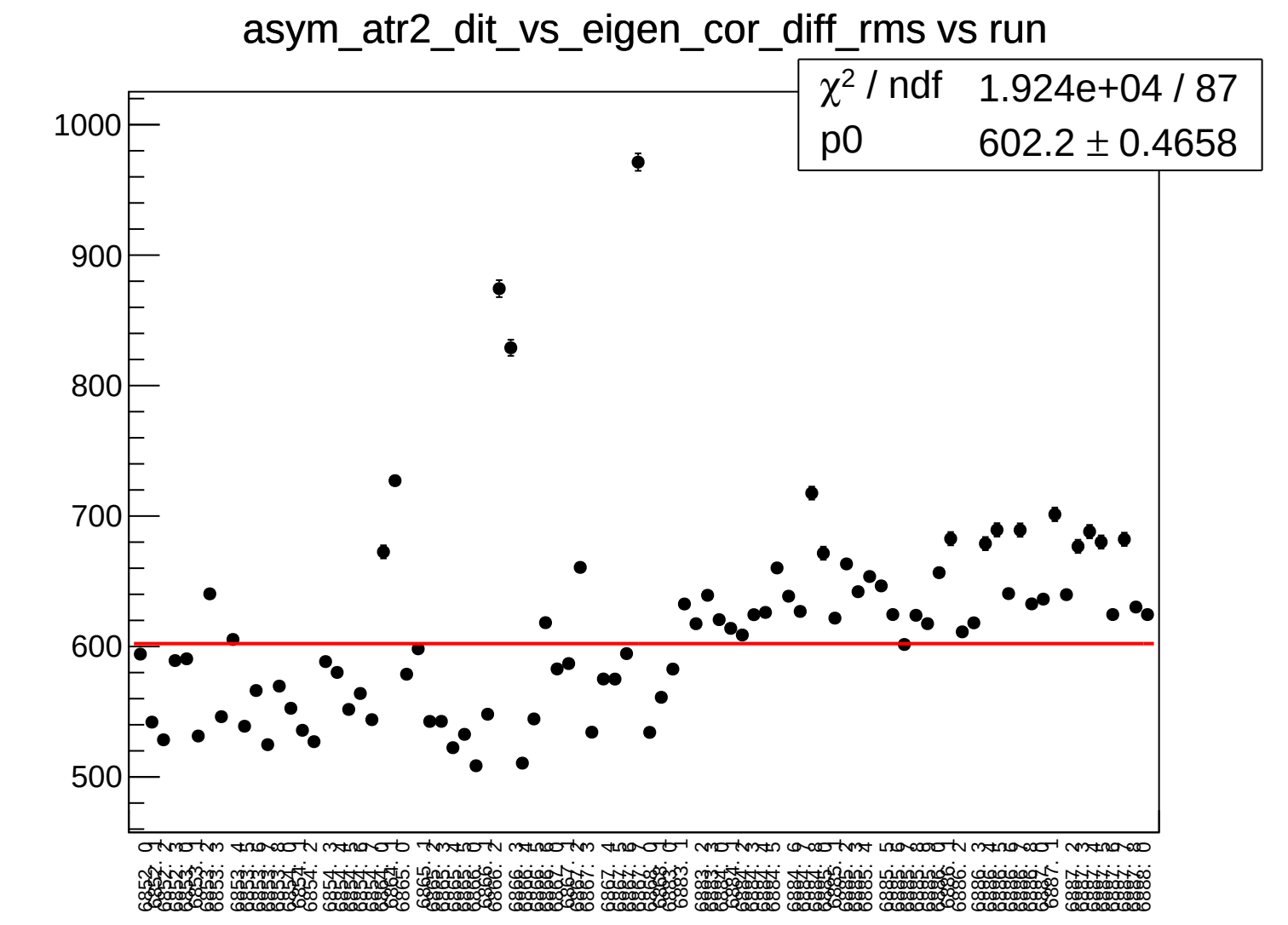

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.155e+06 / 87
p0 1.079e−10 ± 1.474e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

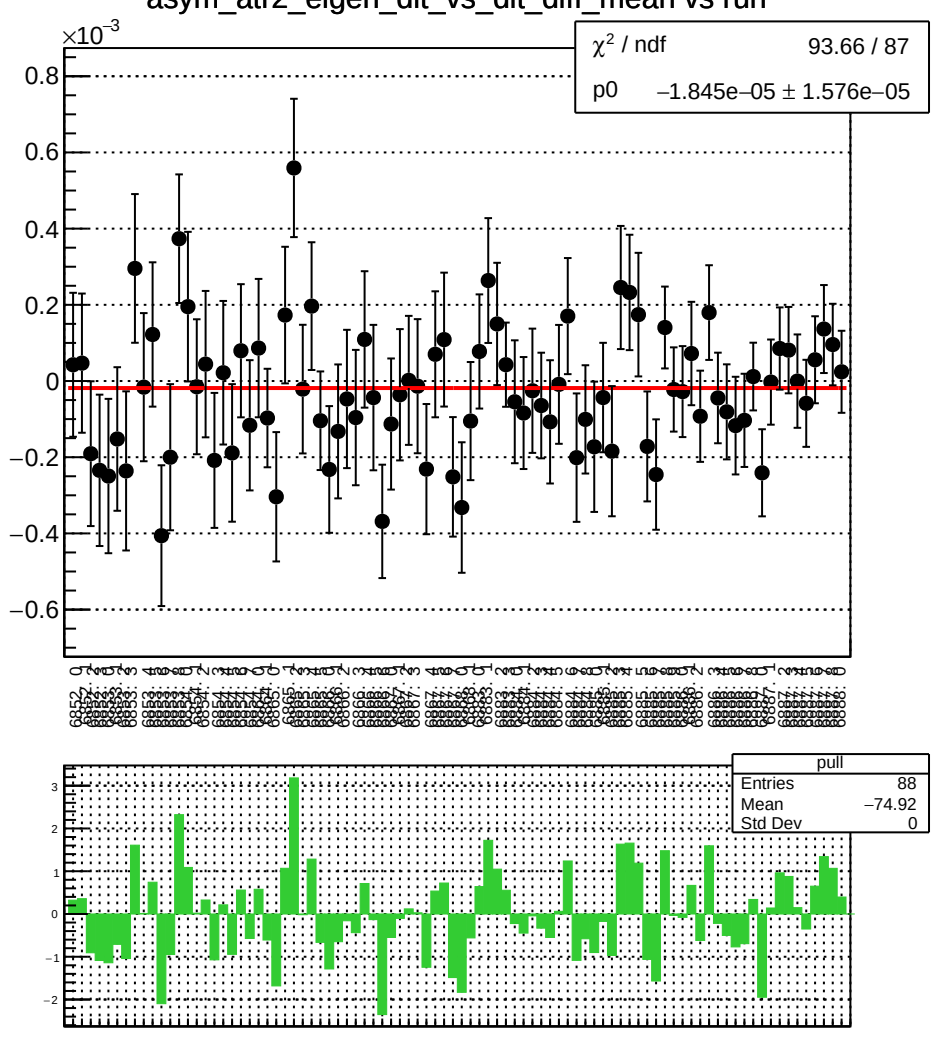

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 71.74 / 87
p0 −0.3972 ± 0.6587
pull
Entries 88
Mean −8.206
Std Dev 0

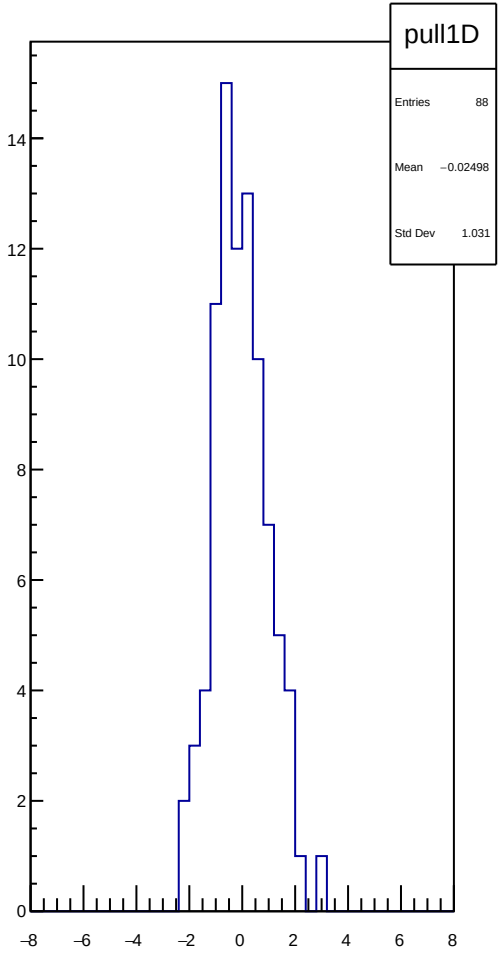

pull1D
Entries 88
Mean 0.01191
Std Dev 0.9028

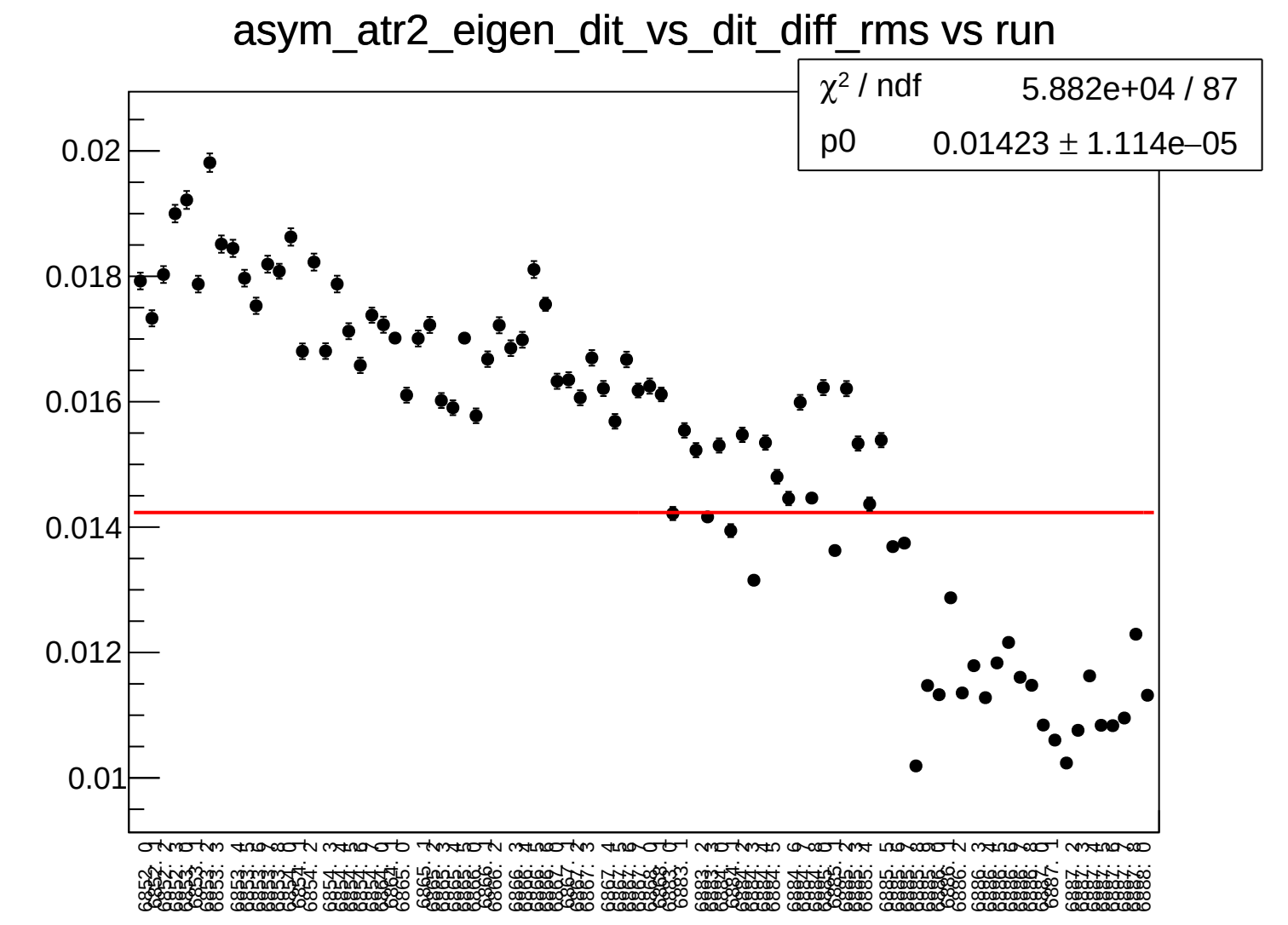

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.924e+04 / 87
p0 602.2 ± 0.4658
1000
900
800
700
600
500

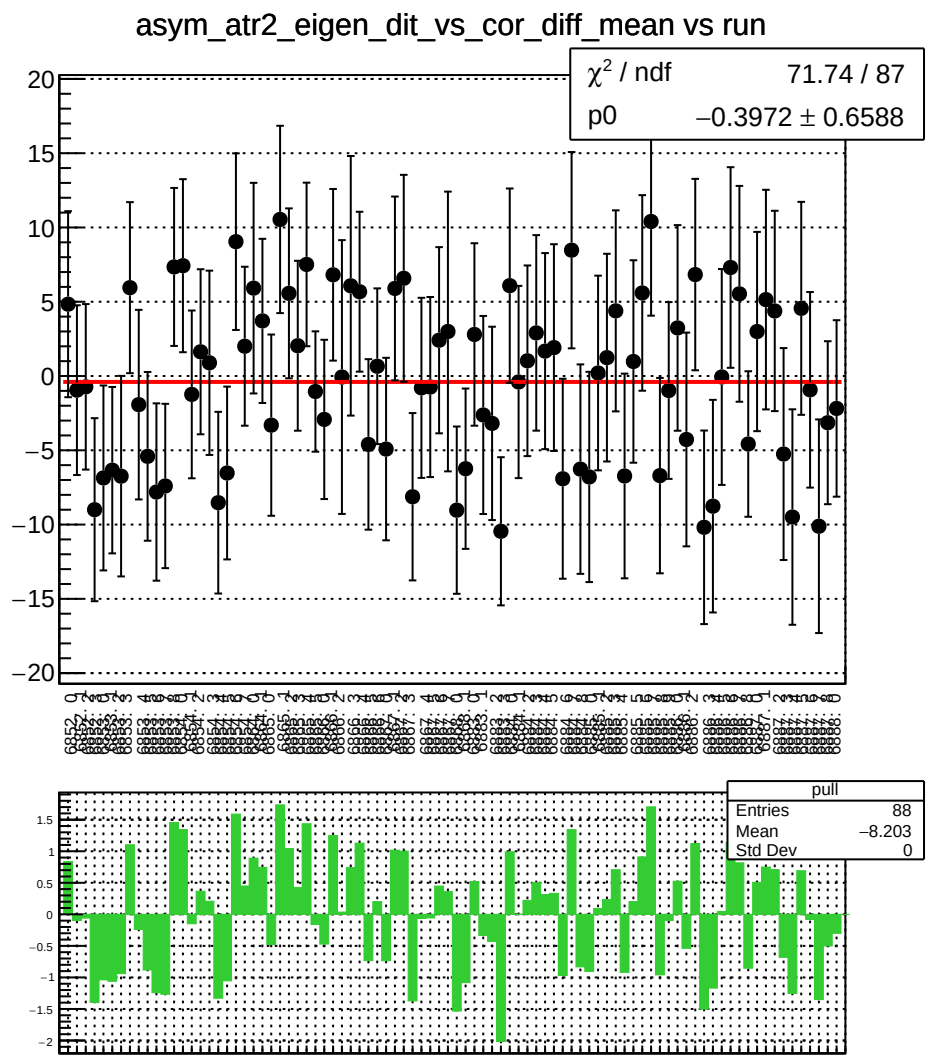

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.74 / 87
p0 −0.3972 ± 0.6587
pull
Entries 88
Mean −8.206
Std Dev 0
pull1D
Entries 88
Mean 0.01191
Std Dev 0.9028

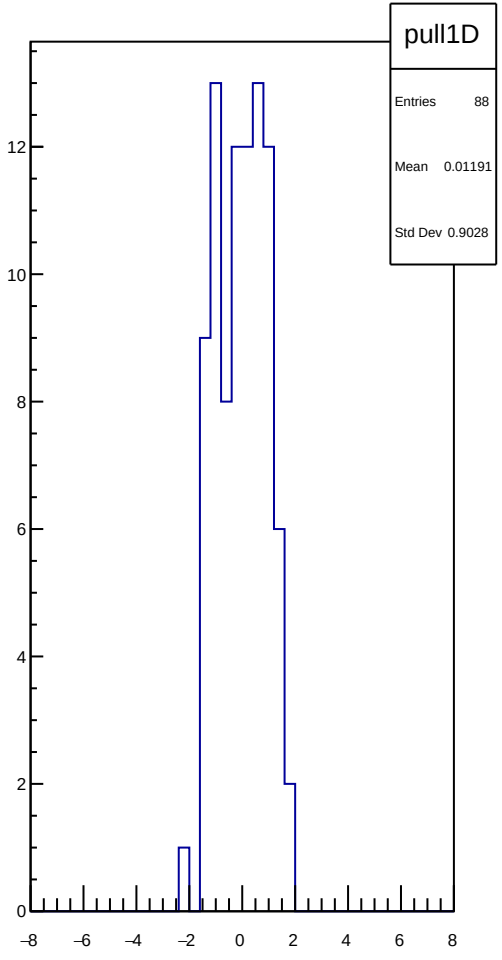

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.924e+04 / 87
p0 602.2 ± 0.4658
1000
900
800
700
600
500

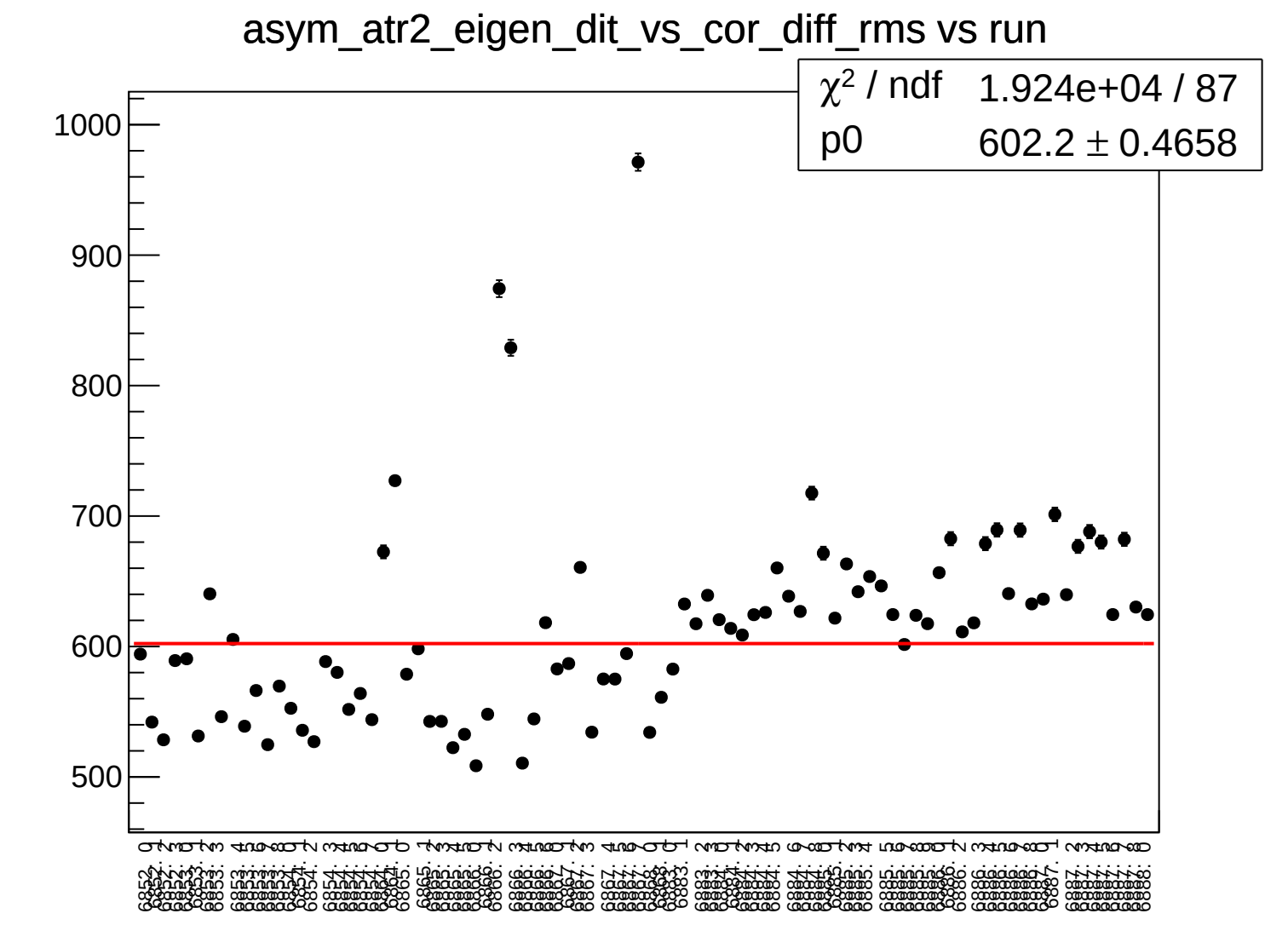

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.66 / 87
p0 −1.845e−05 ± 1.576e−05
pull
Entries 88
Mean −74.92
Std Dev 0

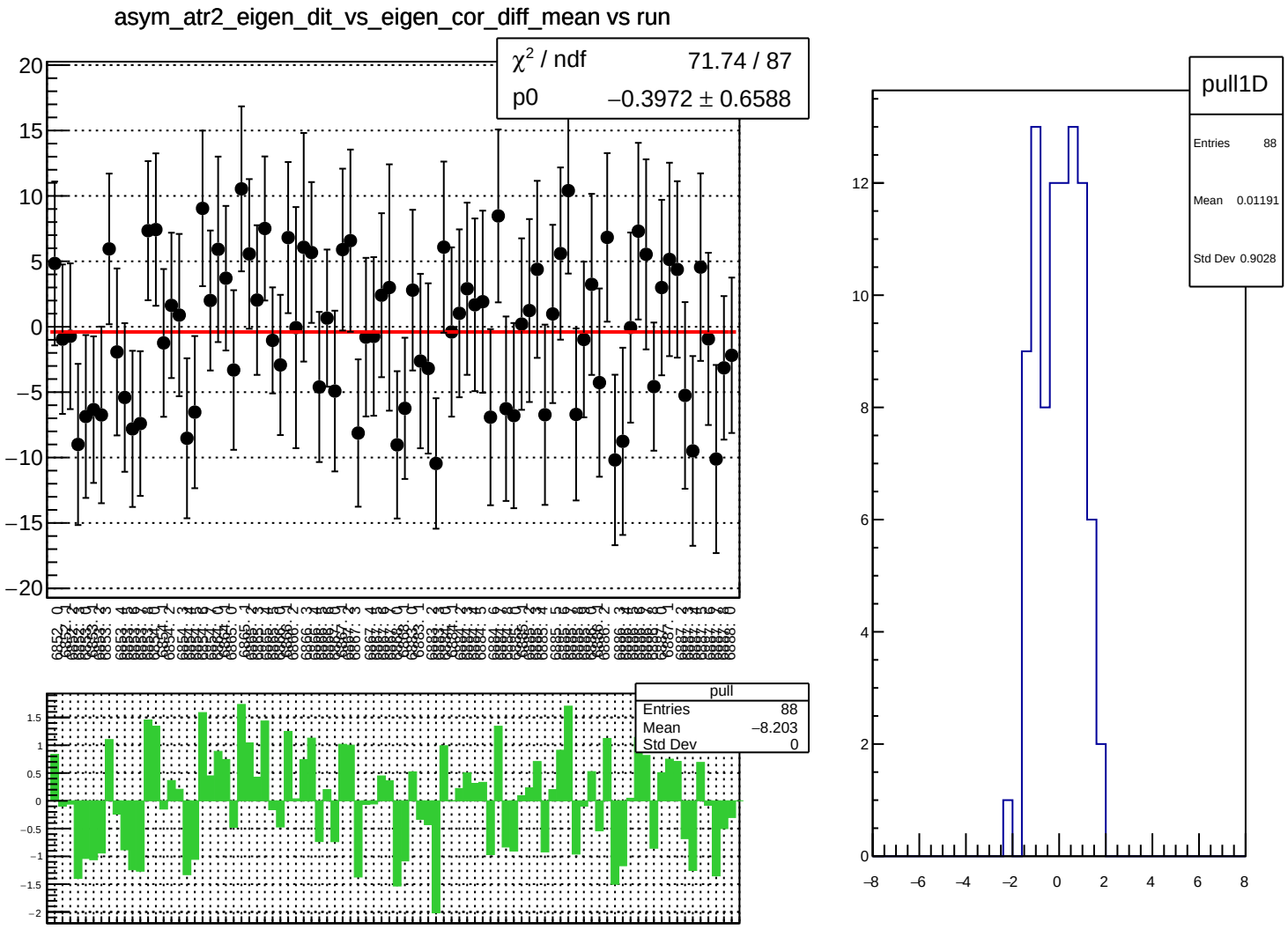

pull1D
Entries 88
Mean −0.02498
Std Dev 1.031

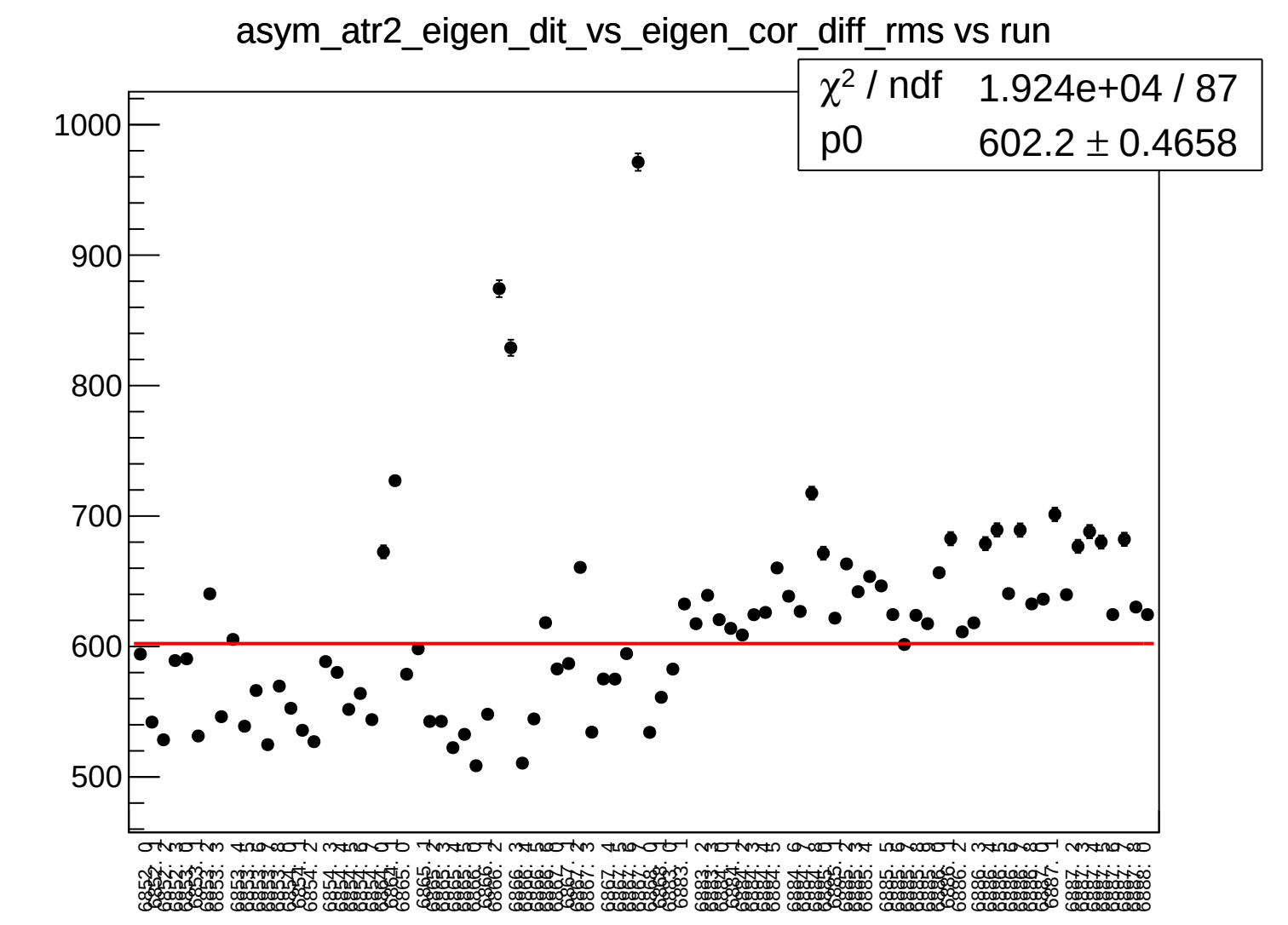

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.882e+04 / 87
p0 0.01423 ± 1.114e−05
0.02
0.018
0.016
0.014
0.012
0.01

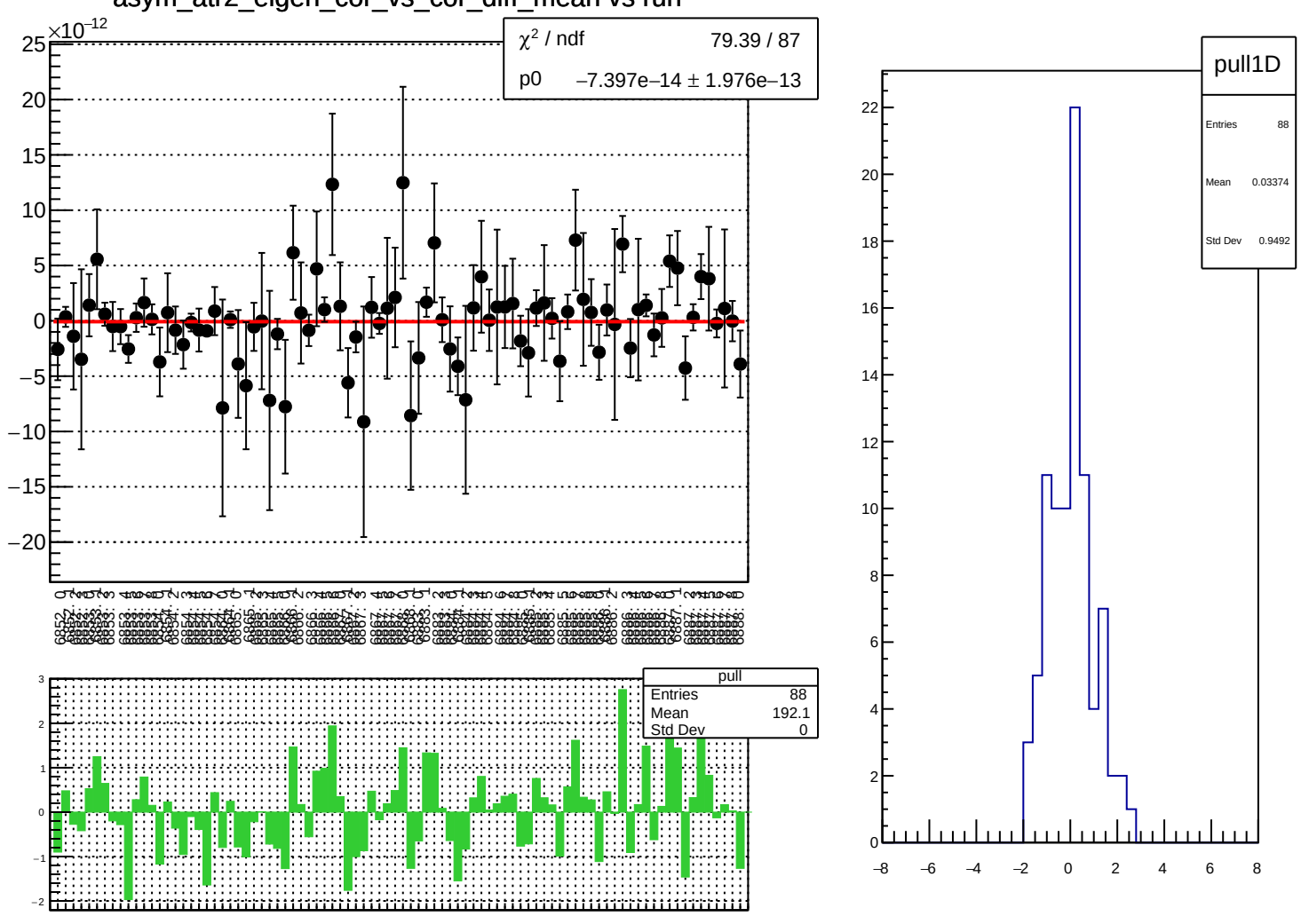

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.74 / 87
p0 −0.3972 ± 0.6588
pull
Entries 88
Mean −8.203
Std Dev 0

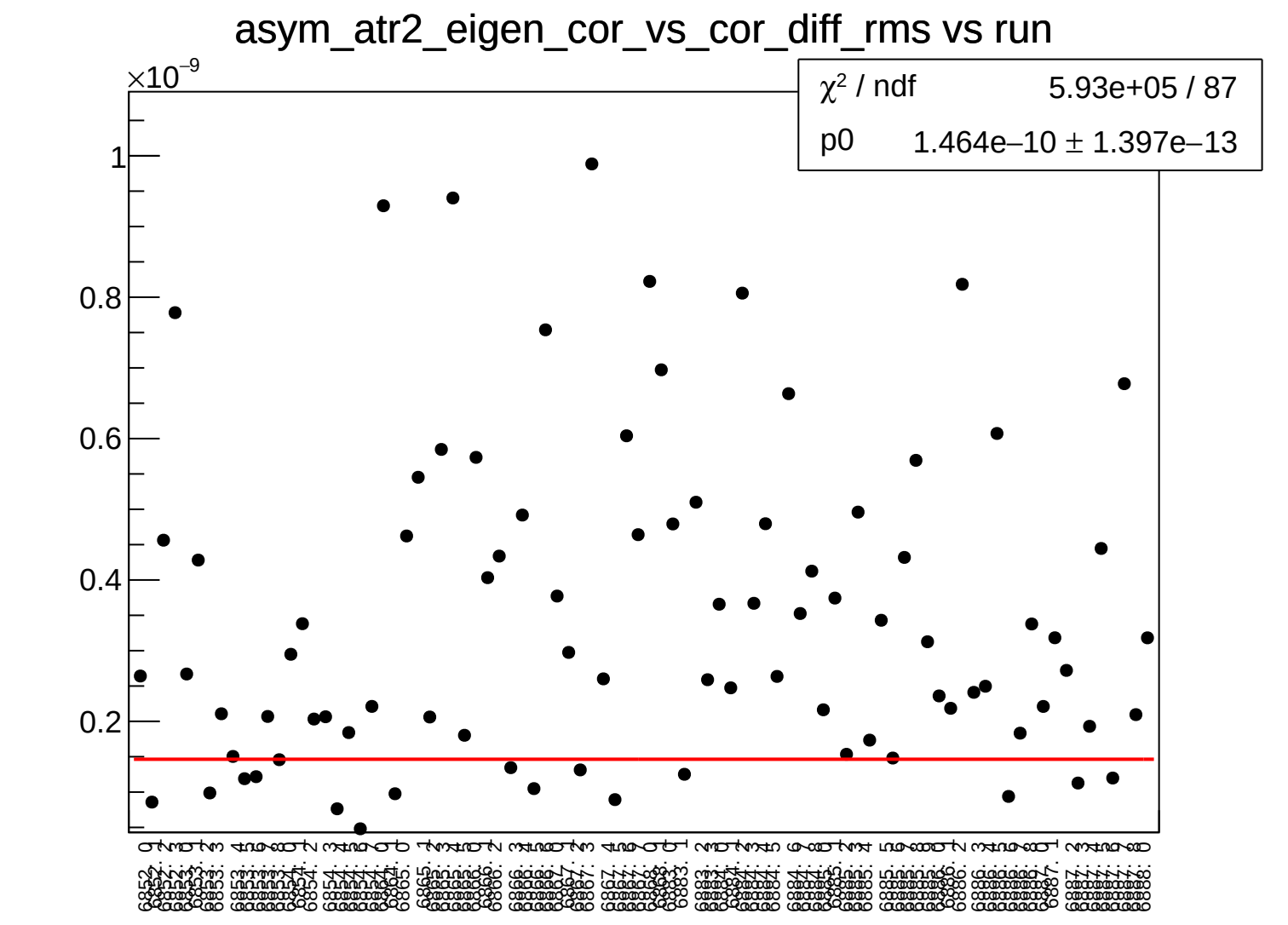

pull1D
Entries 88
Mean 0.01191
Std Dev 0.9028

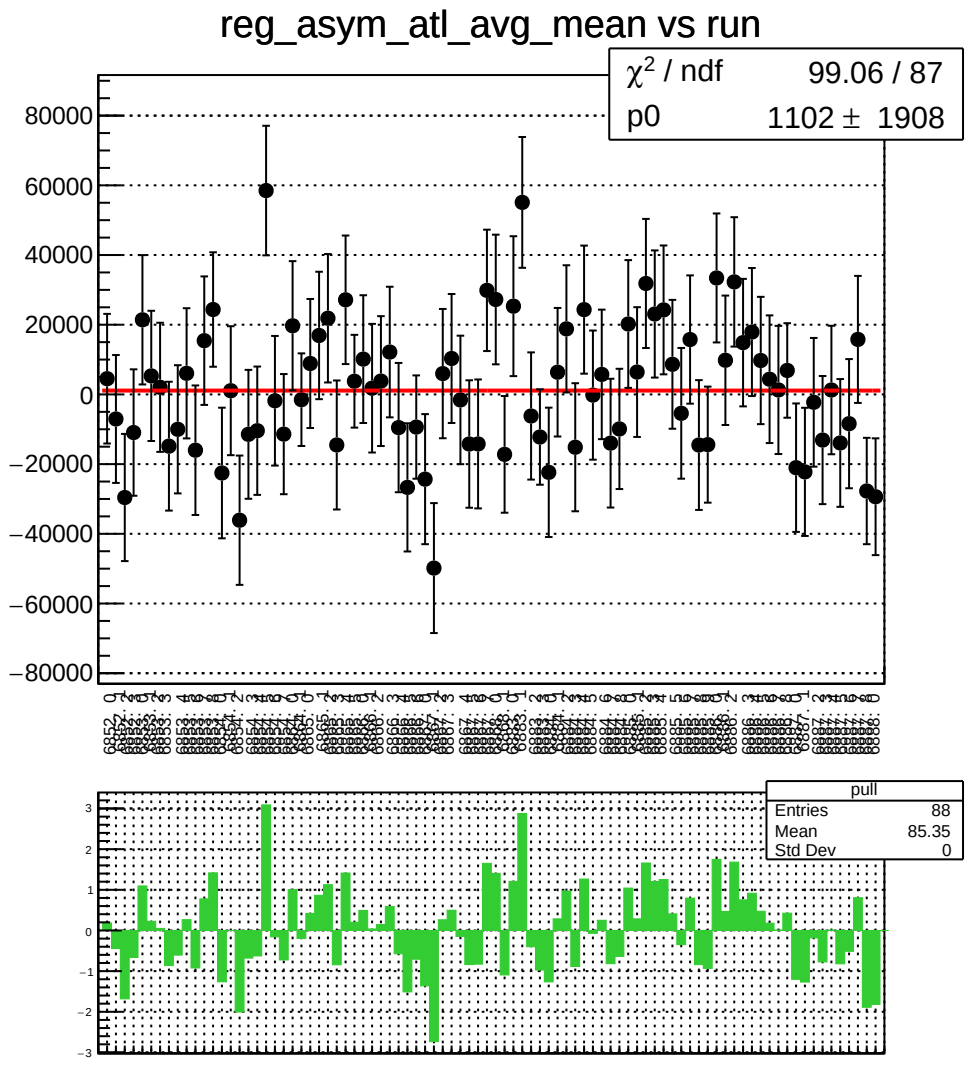

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.924e+04 / 87
p0 602.2 ± 0.4658
1000
900
800
700
600
500

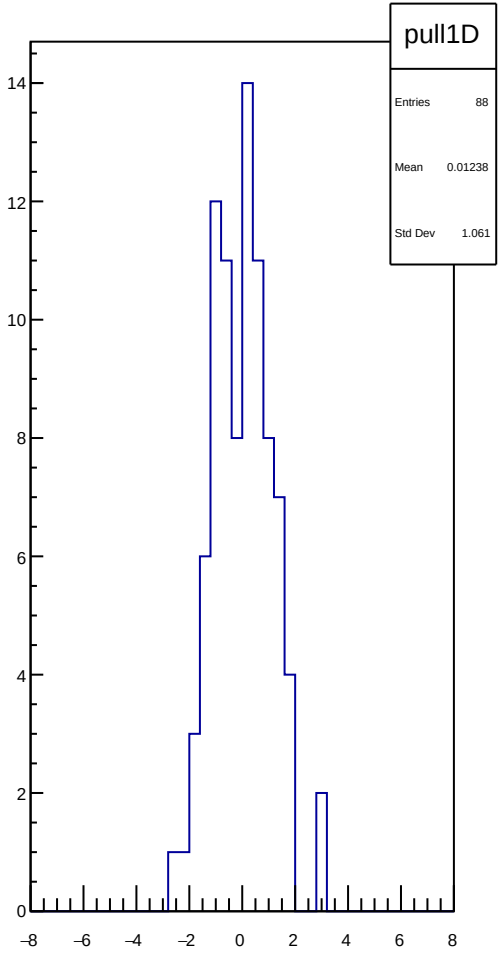

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.74 / 87
p0 −0.3972 ± 0.6588
pull
Entries 88
Mean −8.203
Std Dev 0
pull1D
Entries 88
Mean 0.01191
Std Dev 0.9028

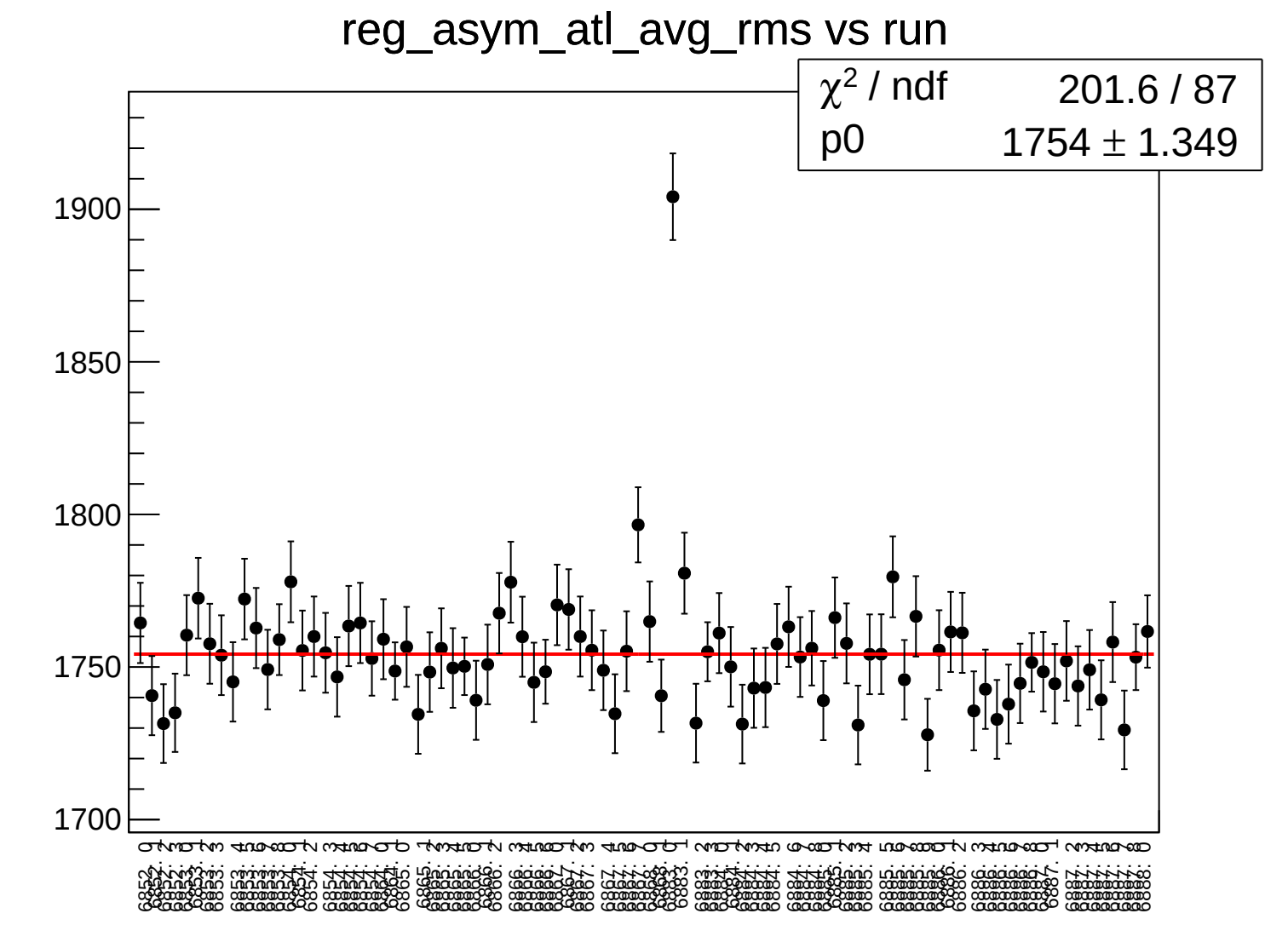

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.924e+04 / 87
p0 602.2 ± 0.4658
1000
900
800
700
600
500

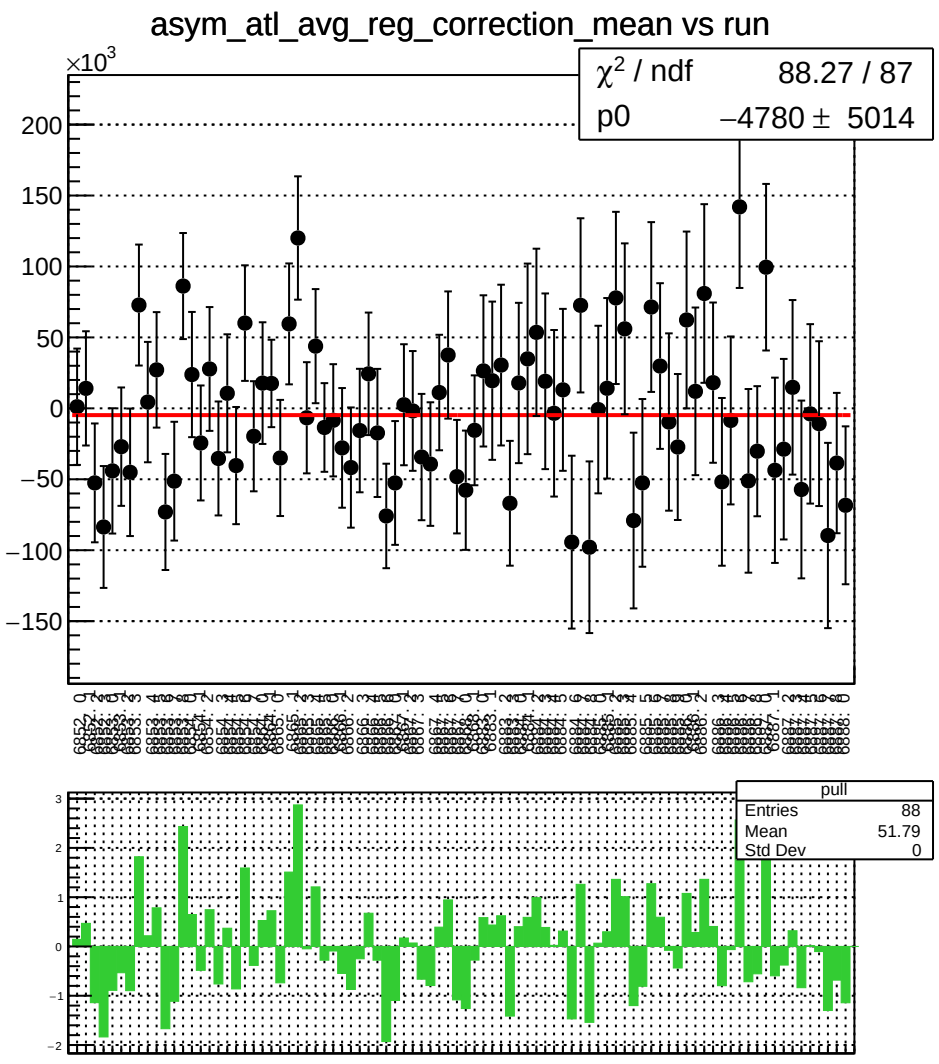

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.39 / 87
p0 −7.397e−14 ± 1.976e−13
pull
Entries 88
Mean 192.1
Std Dev 0
pull1D
Entries 88
Mean 0.03374
Std Dev 0.9492

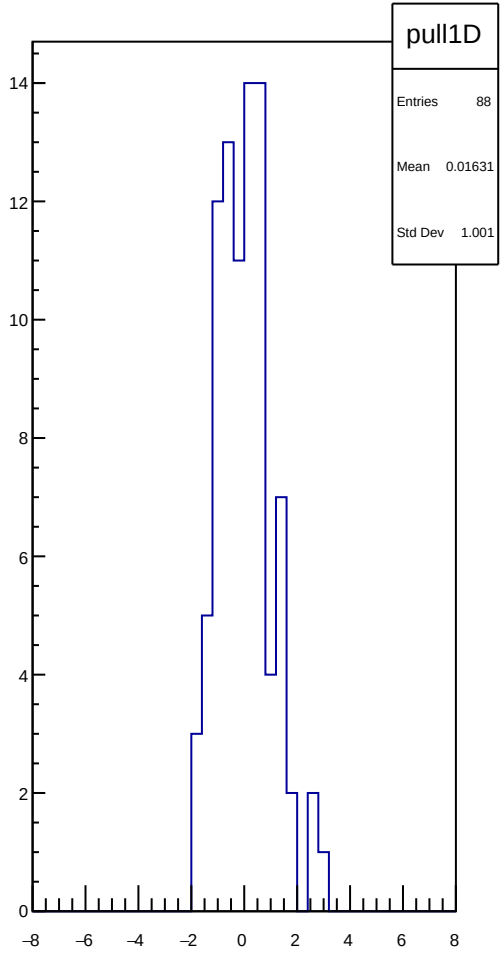

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.93e+05 / 87
p0 1.464e−10 ± 1.397e−13
1
0.8
0.6
0.4
0.2

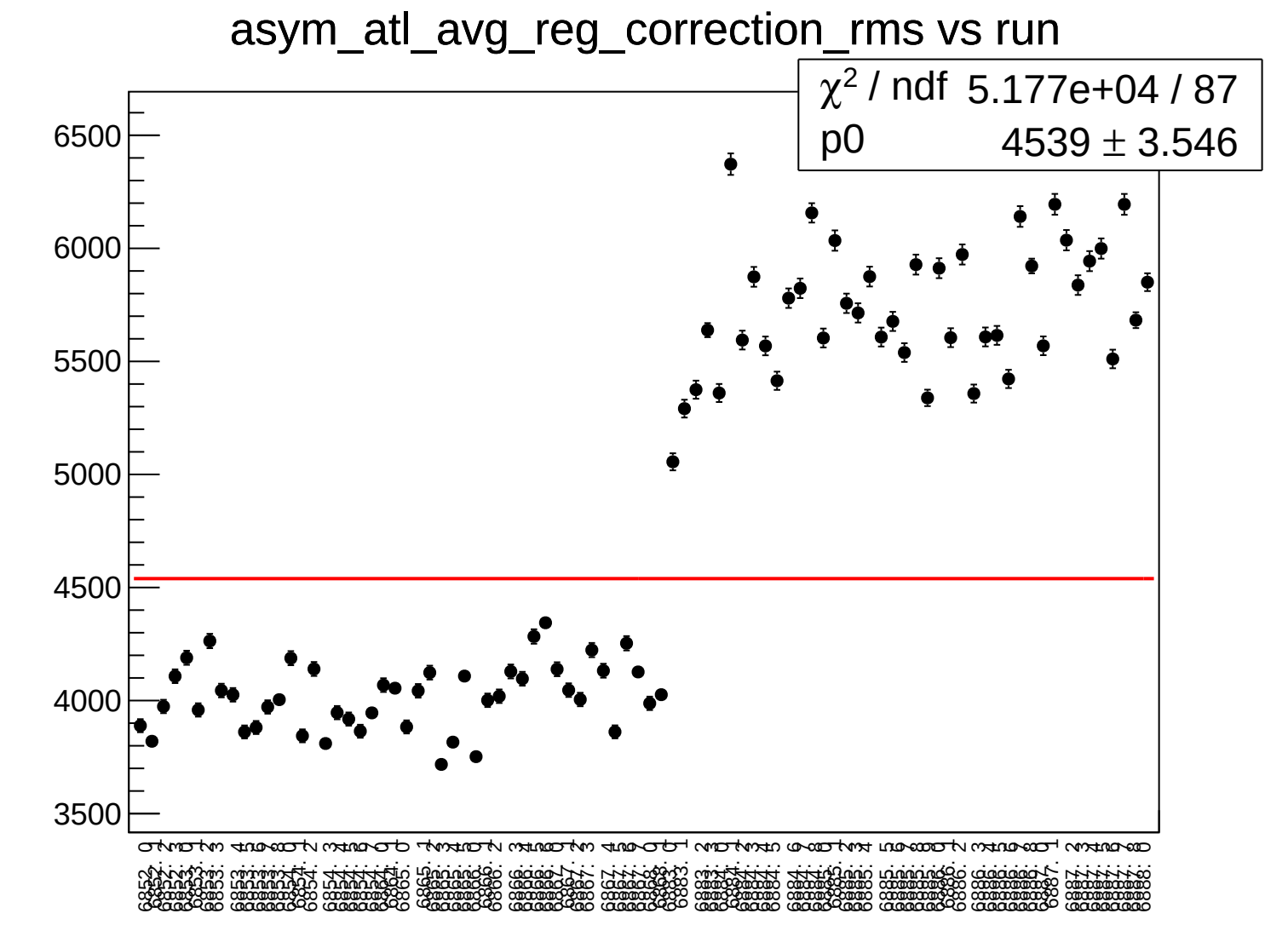

reg_asym_atl_avg_mean vs run
χ² / ndf 99.06 / 87
p0 1102 ± 1908
pull
Entries 88
Mean 85.35
Std Dev 0

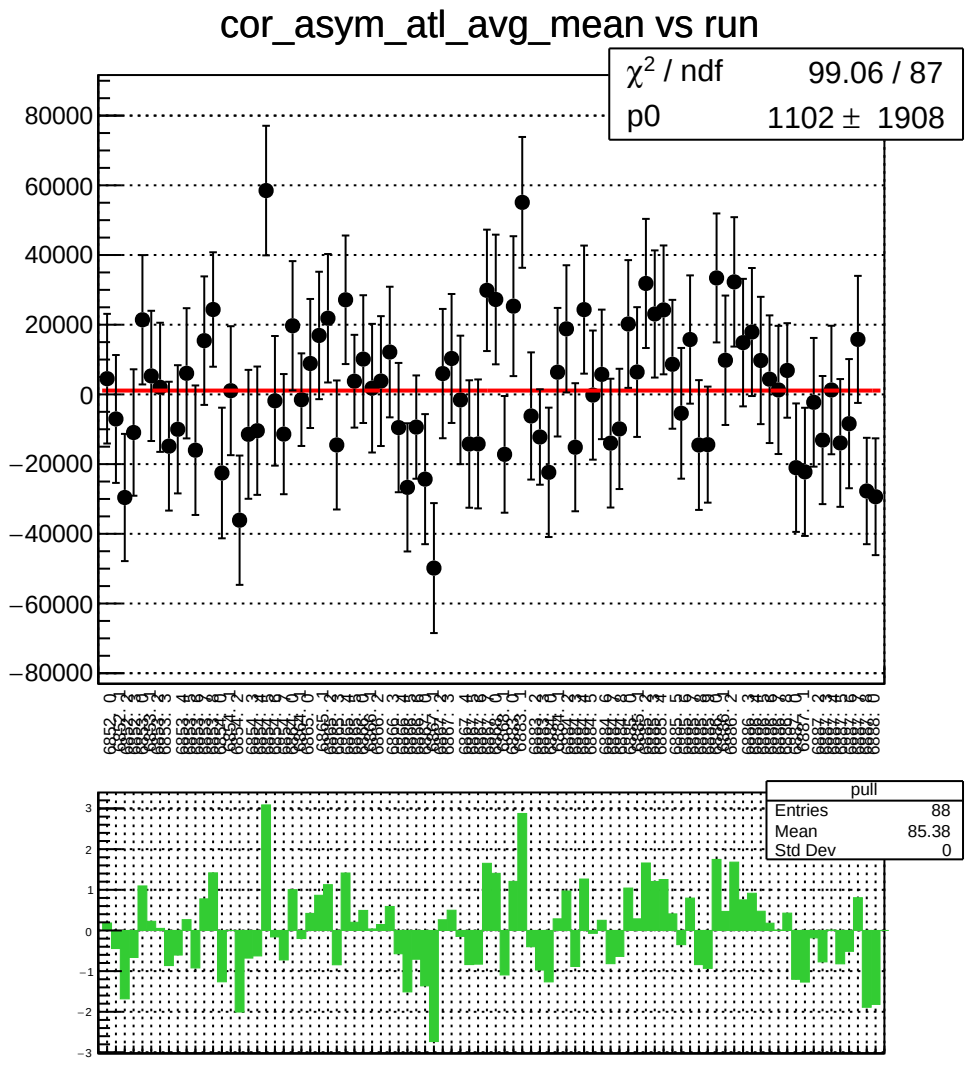

pull1D
Entries 88
Mean 0.01238
Std Dev 1.061

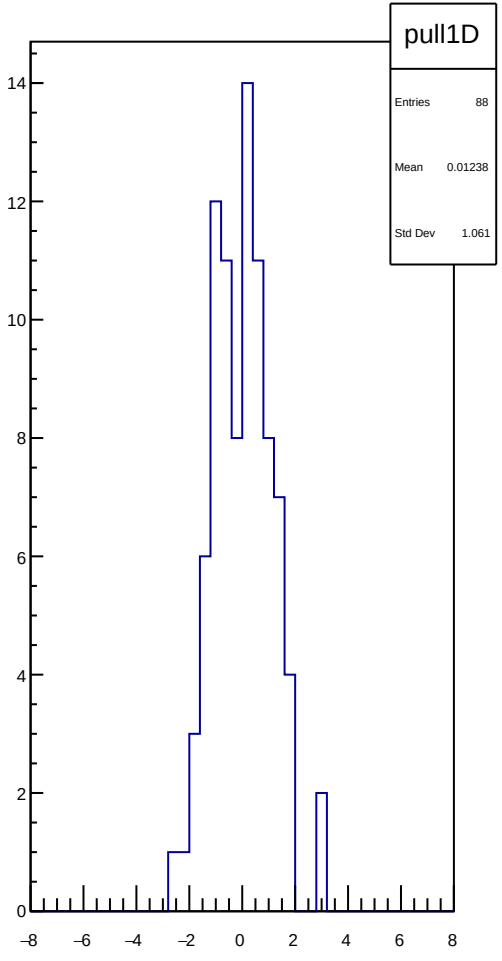

reg_asym_atl_avg_rms vs run
χ² / ndf 201.6 / 87
p0 1754 ± 1.349
1900
1850
1800
1750
1700

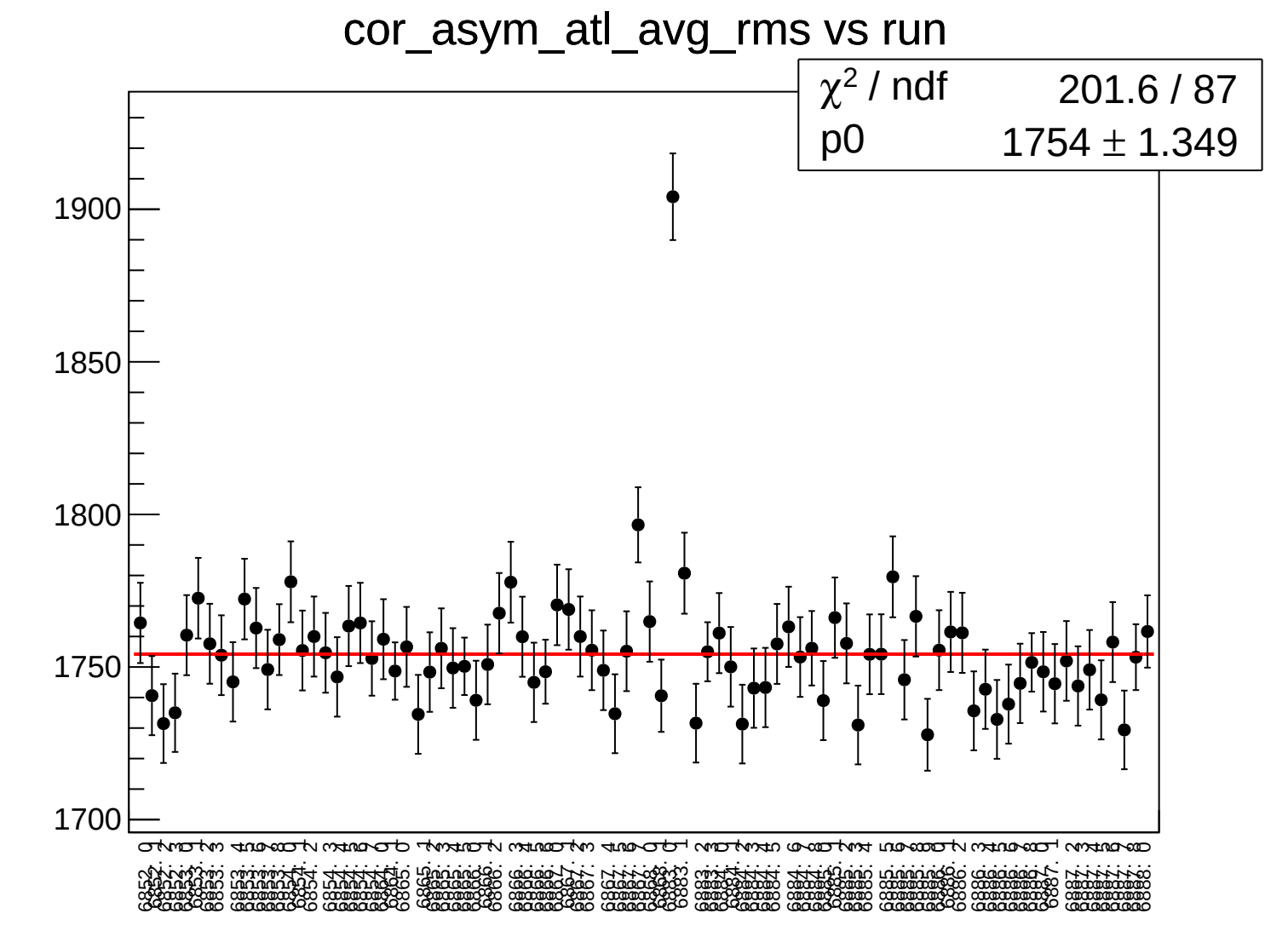

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 88.27 / 87
p0 −4780 ± 5014
200
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 51.79
Std Dev 0
3
2
1
0
−1
−2

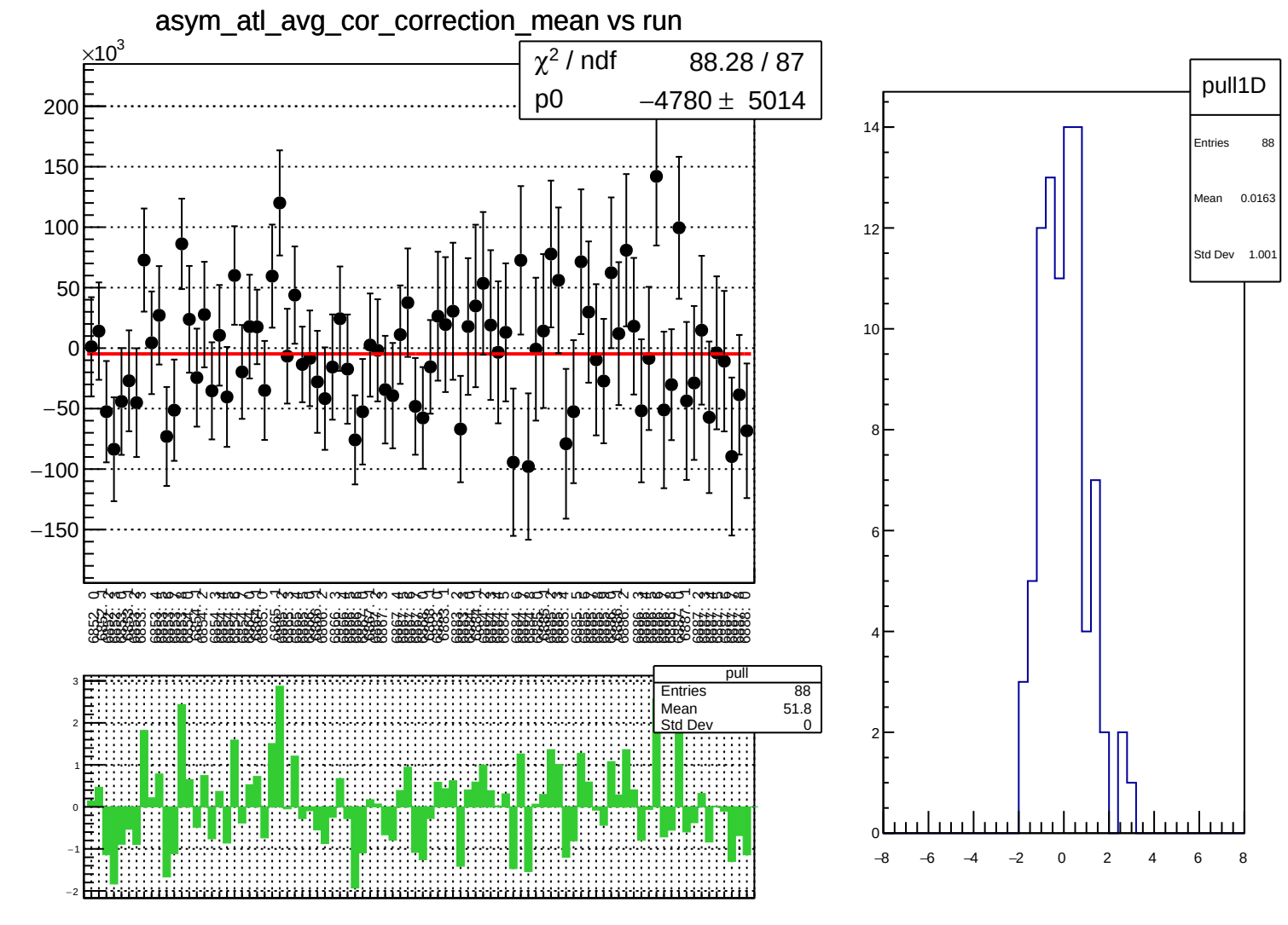

pull1D
Entries 88
Mean 0.01631
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

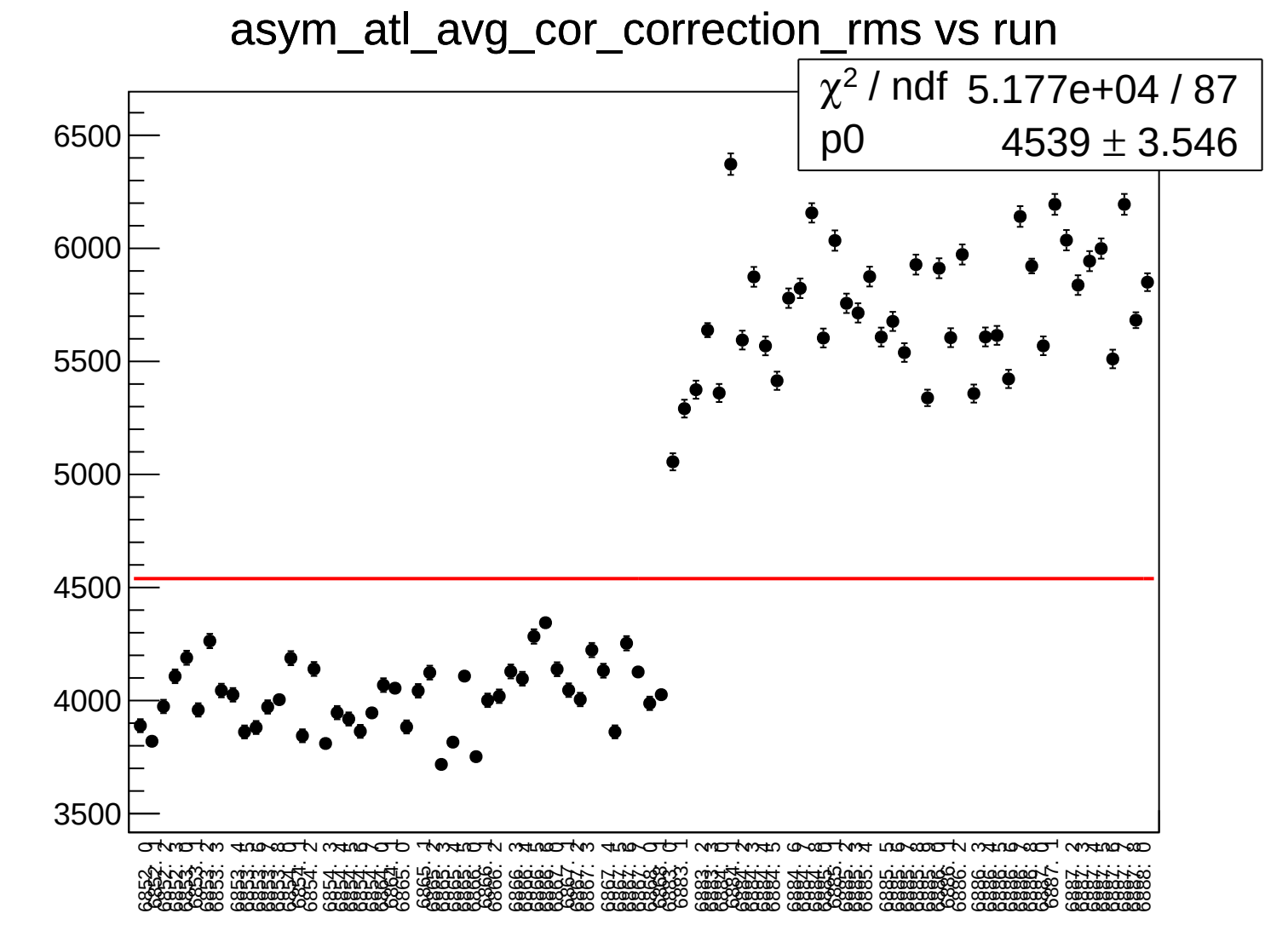

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 5.177e+04 / 87
p0 4539 ± 3.546
6500
6000
5500
5000
4500
4000
3500

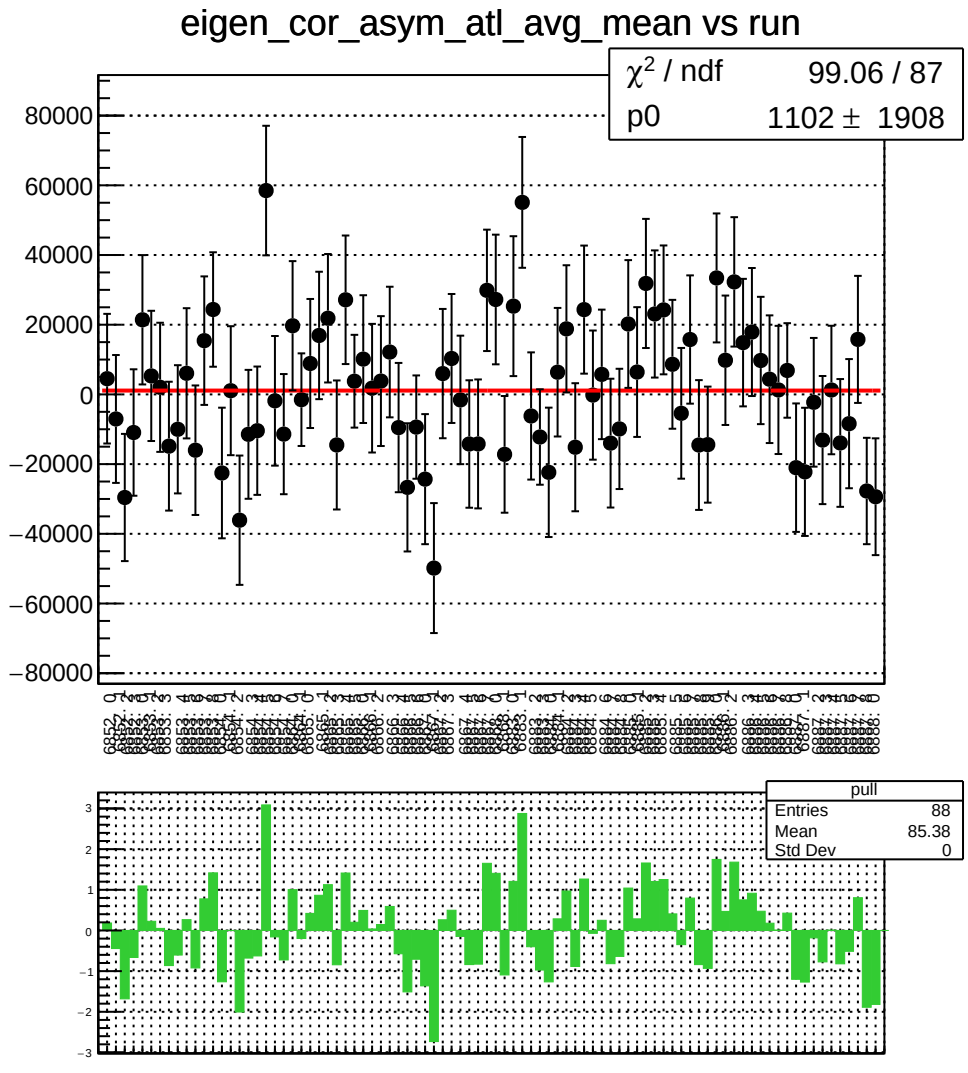

cor_asym_atl_avg_mean vs run
χ² / ndf 99.06 / 87
p0 1102 ± 1908
pull
Entries 88
Mean 85.38
Std Dev 0

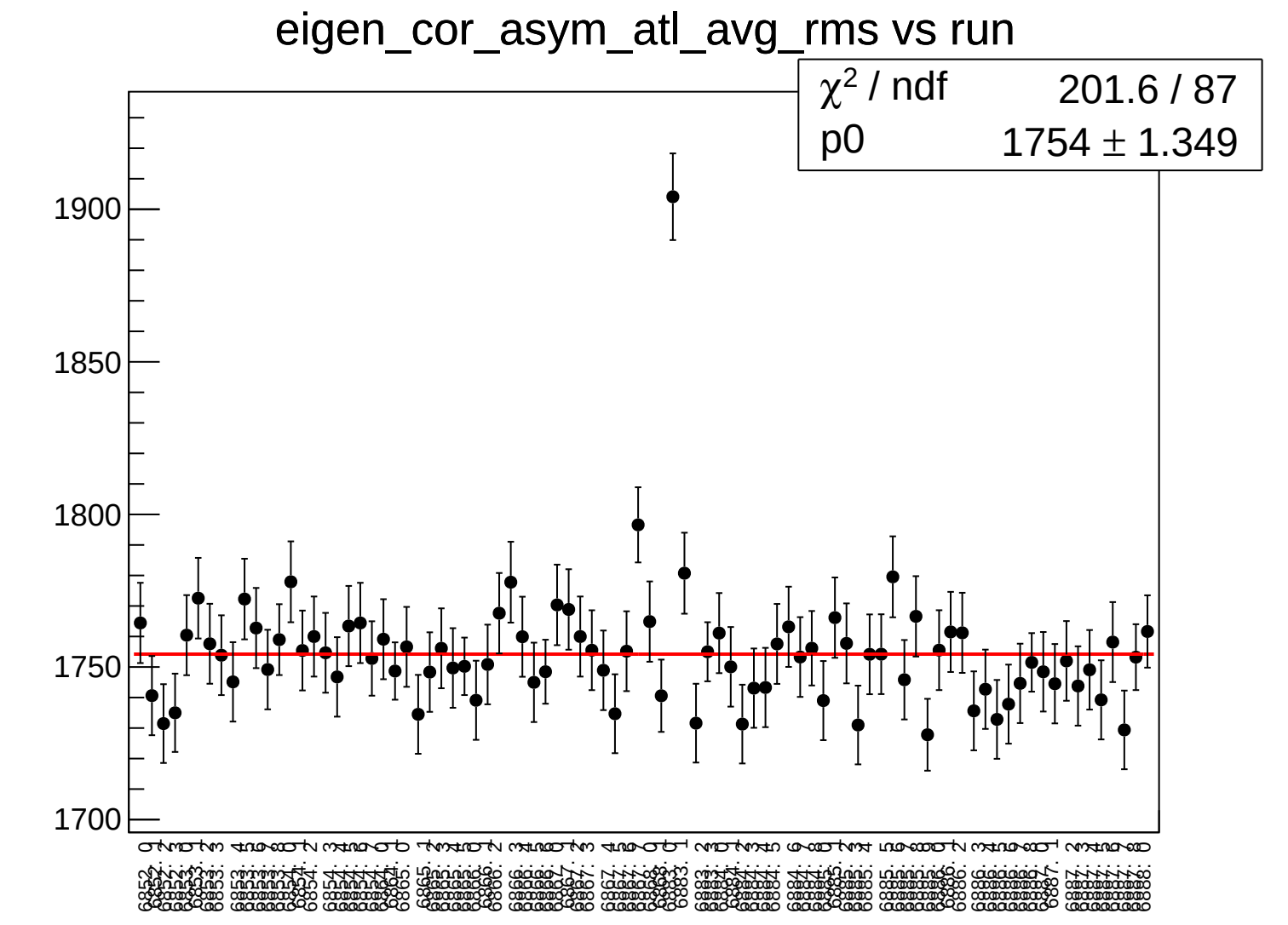

pull1D
Entries 88
Mean 0.01238
Std Dev 1.061

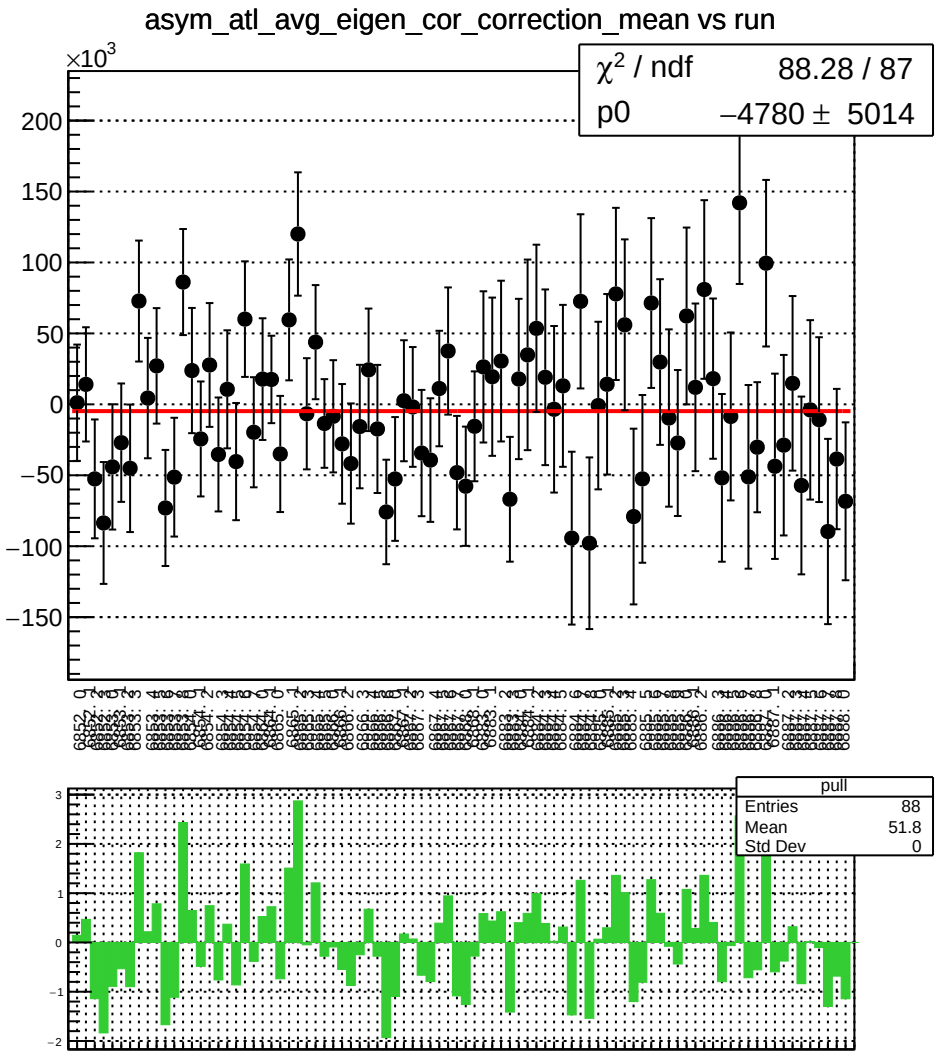

cor_asym_atl_avg_rms vs run
χ² / ndf 201.6 / 87
p0 1754 ± 1.349
1900
1850
1800
1750
1700

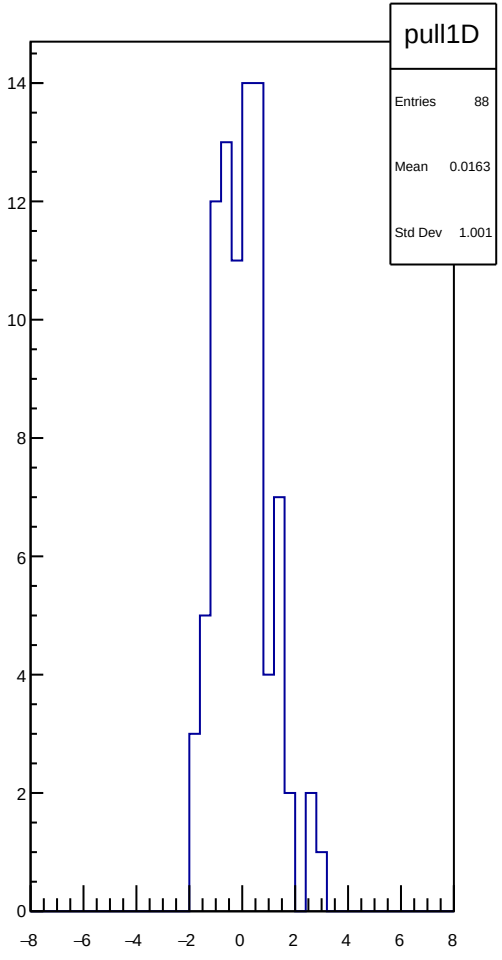

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 88.28 / 87
p0 −4780 ± 5014
×10³
pull
Entries 88
Mean 51.8
Std Dev 0
pull1D
Entries 88
Mean 0.0163
Std Dev 1.001

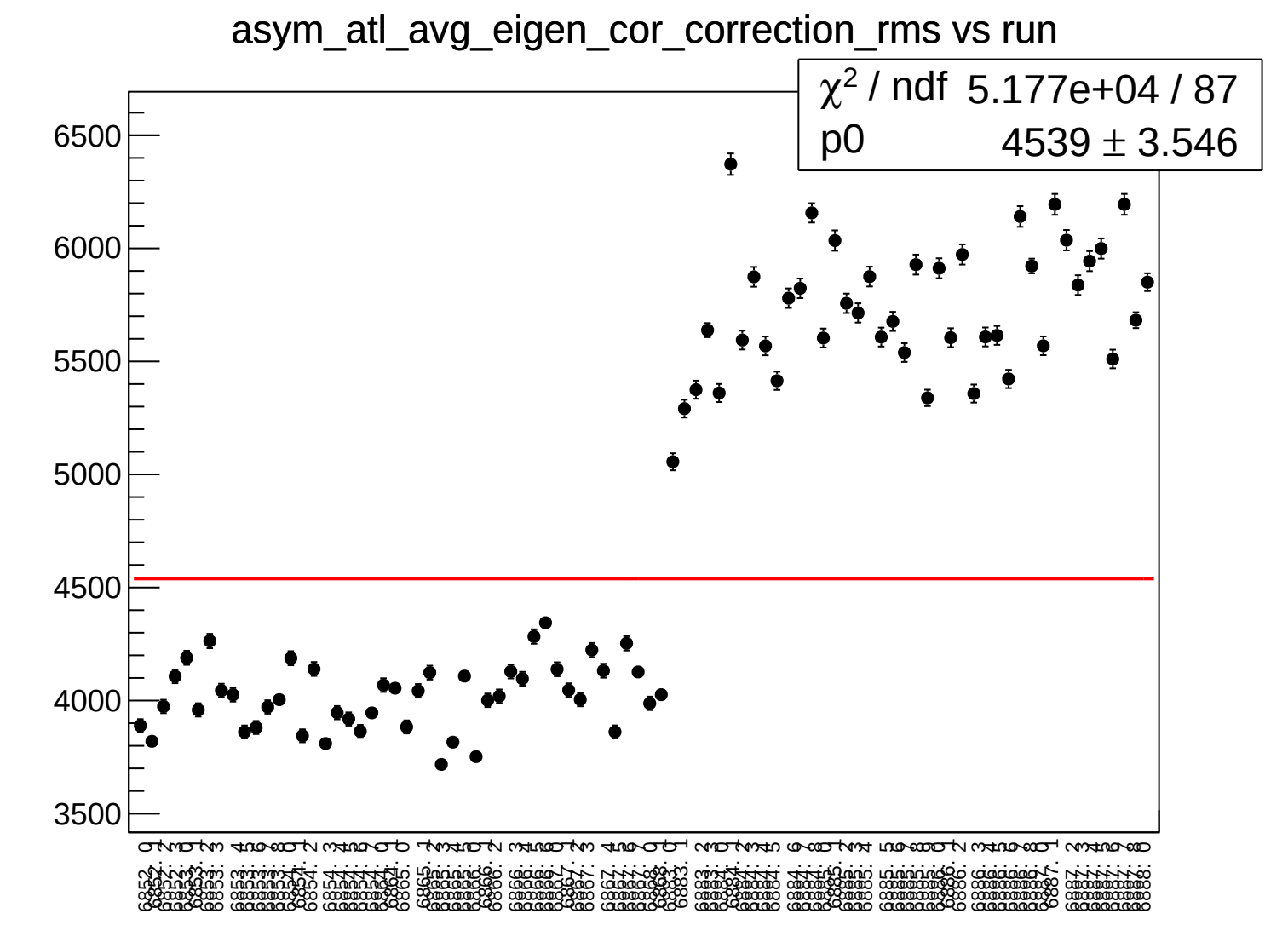

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 5.177e+04 / 87
p0 4539 ± 3.546
6500
6000
5500
5000
4500
4000
3500

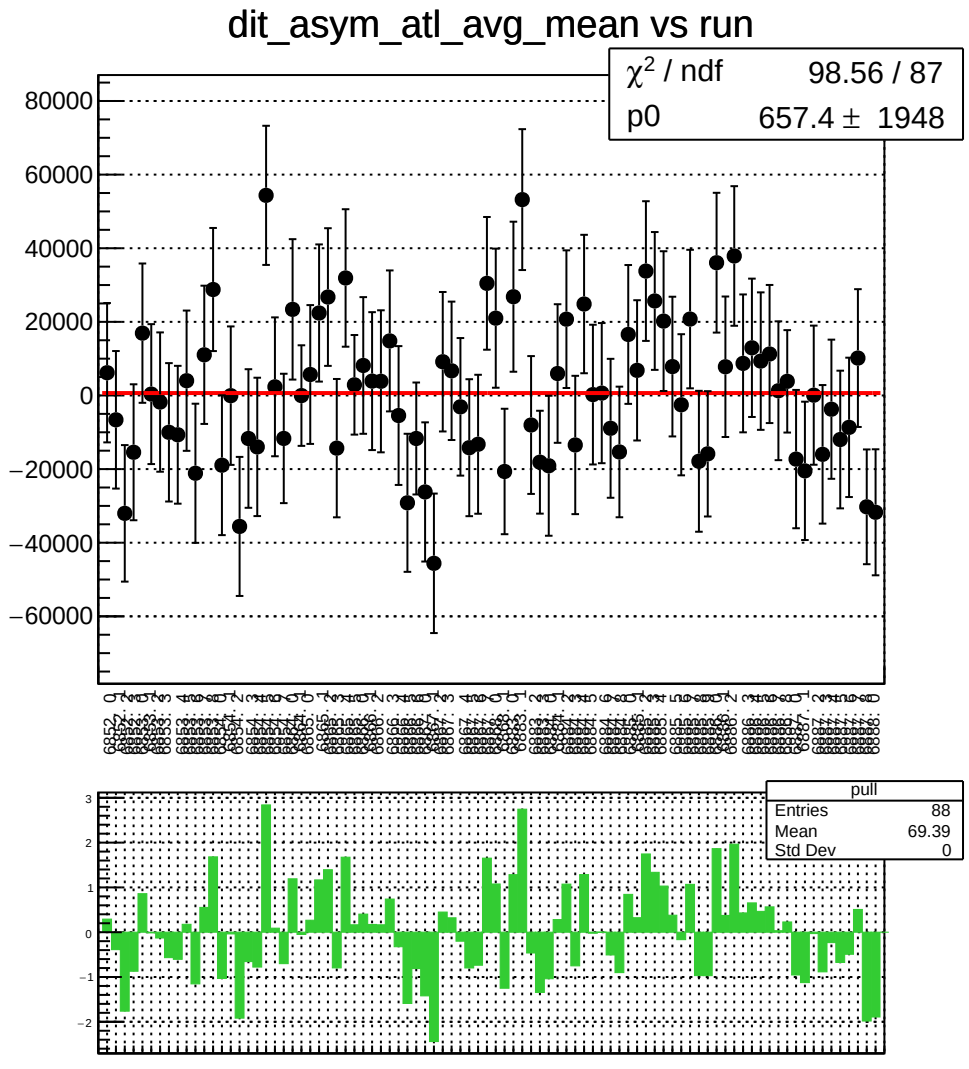

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 99.06 / 87
p0 1102 ± 1908
pull
Entries 88
Mean 85.38
Std Dev 0
pull1D
Entries 88
Mean 0.01238
Std Dev 1.061

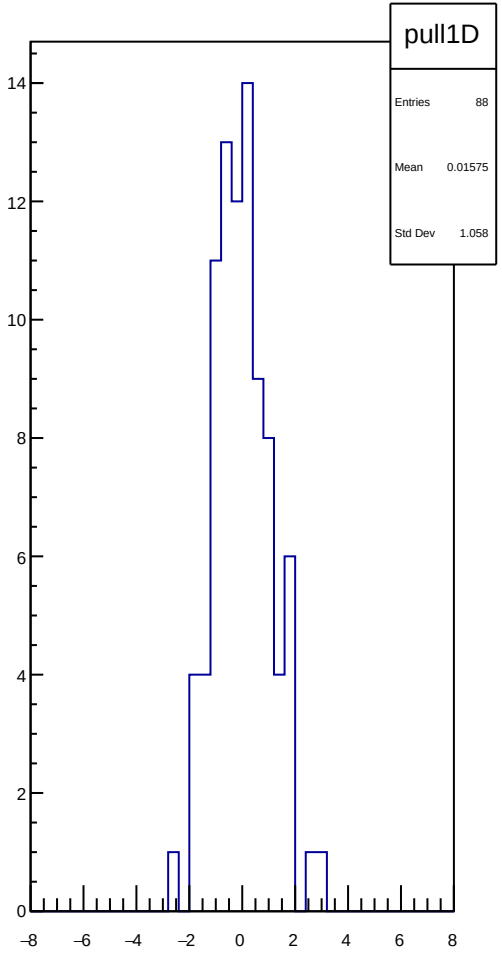

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 201.6 / 87
p0 1754 ± 1.349
1900
1850
1800
1750
1700

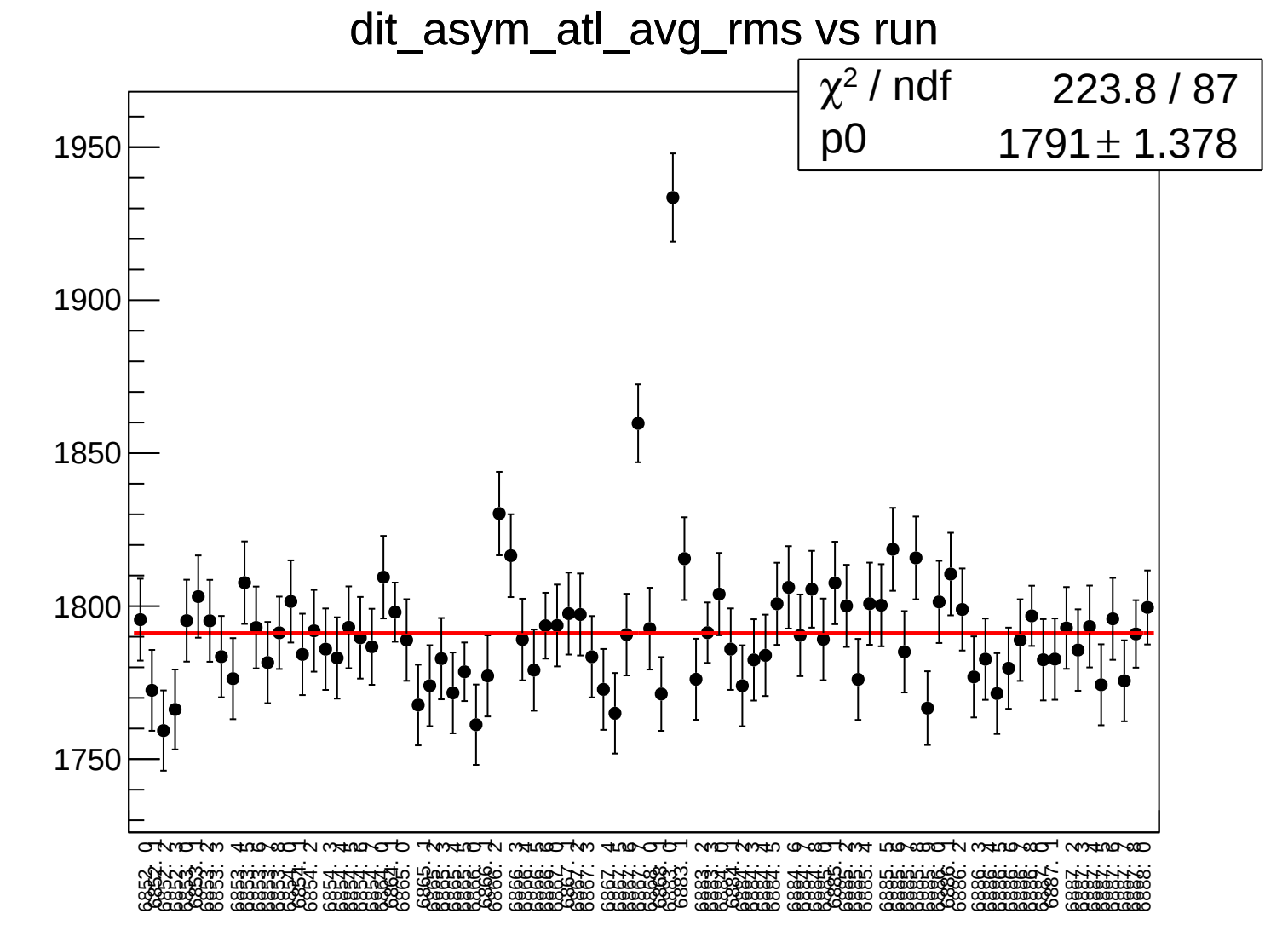

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.28 / 87
p0 −4780 ± 5014
200
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 51.8
Std Dev 0
3
2
1
0
−1
−2

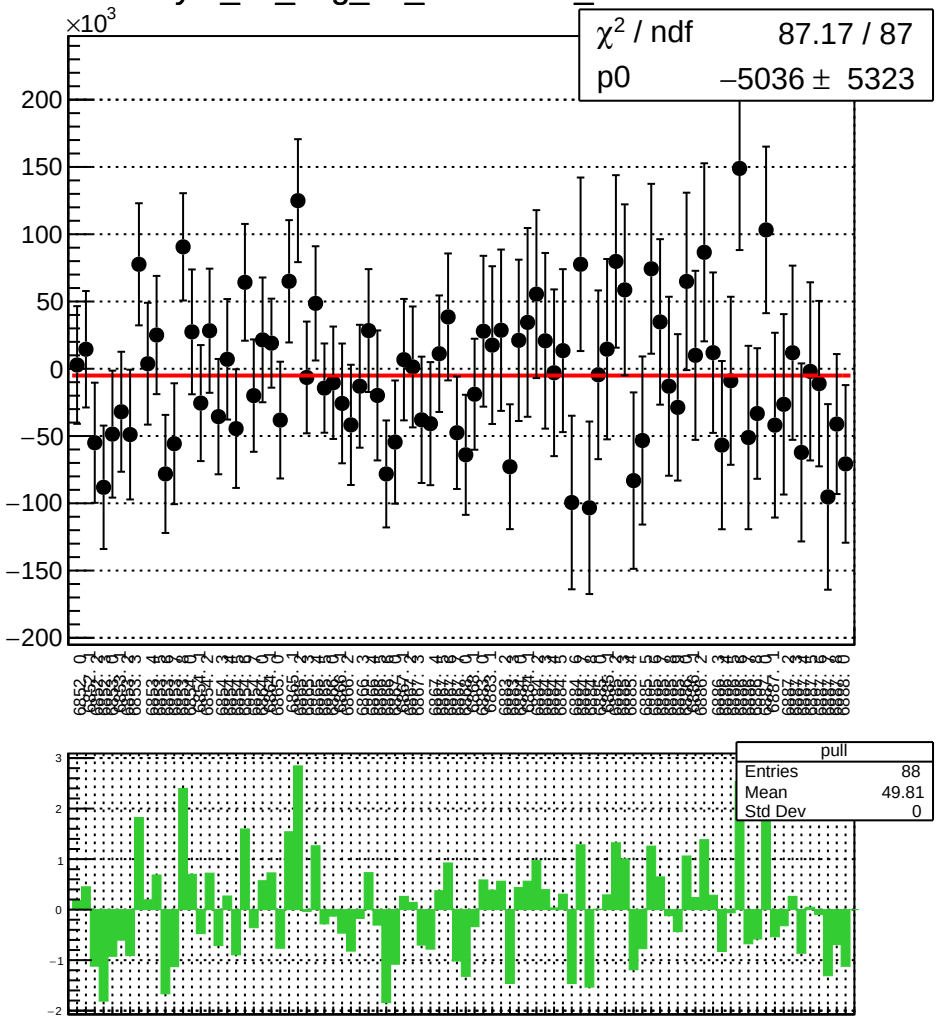

pull1D
Entries 88
Mean 0.0163
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

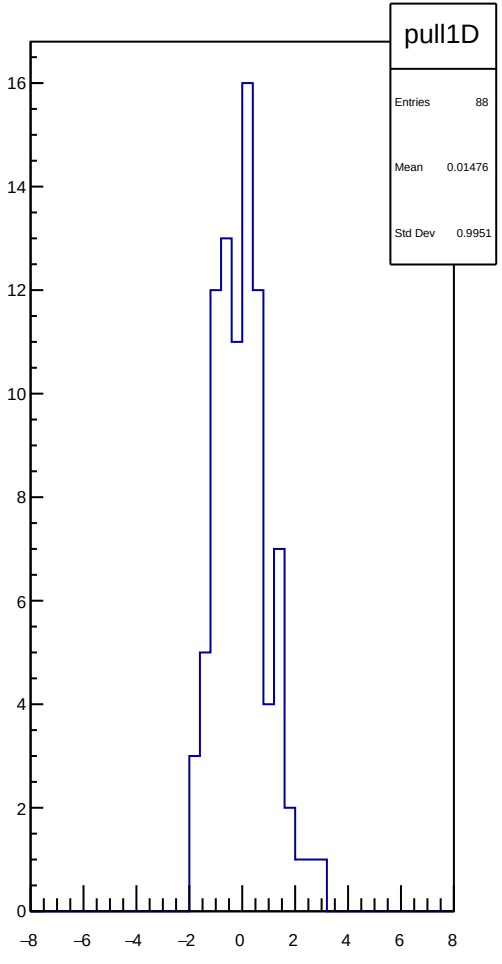

asym_atl_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 5.177e+04 / 87
p0 4539 ± 3.546
6500
6000
5500
5000
4500
4000
3500

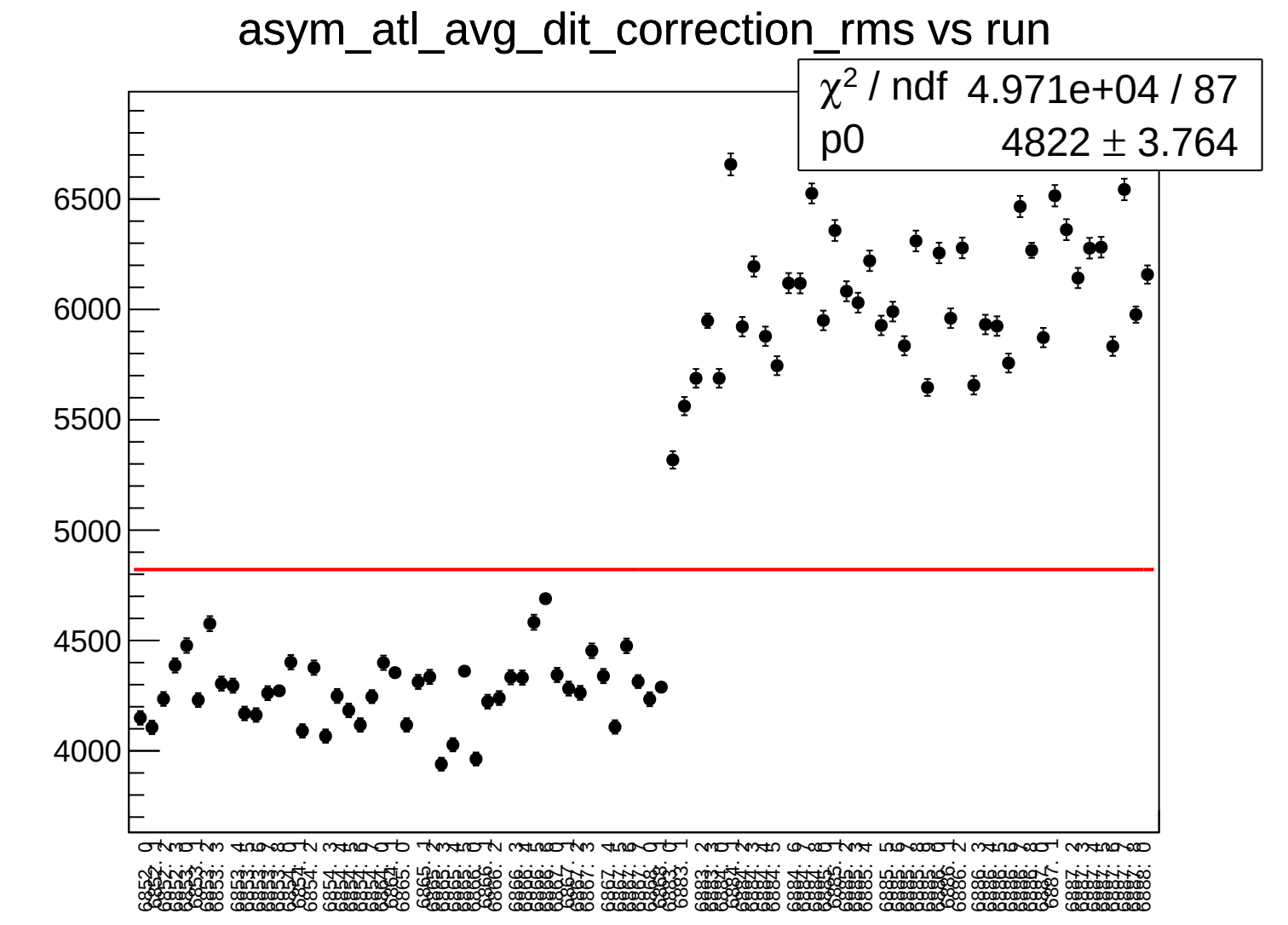

dit_asym_atl_avg_mean vs run
χ² / ndf 98.56 / 87
p0 657.4 ± 1948
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 69.39
Std Dev 0
3
2
1
0
−1
−2

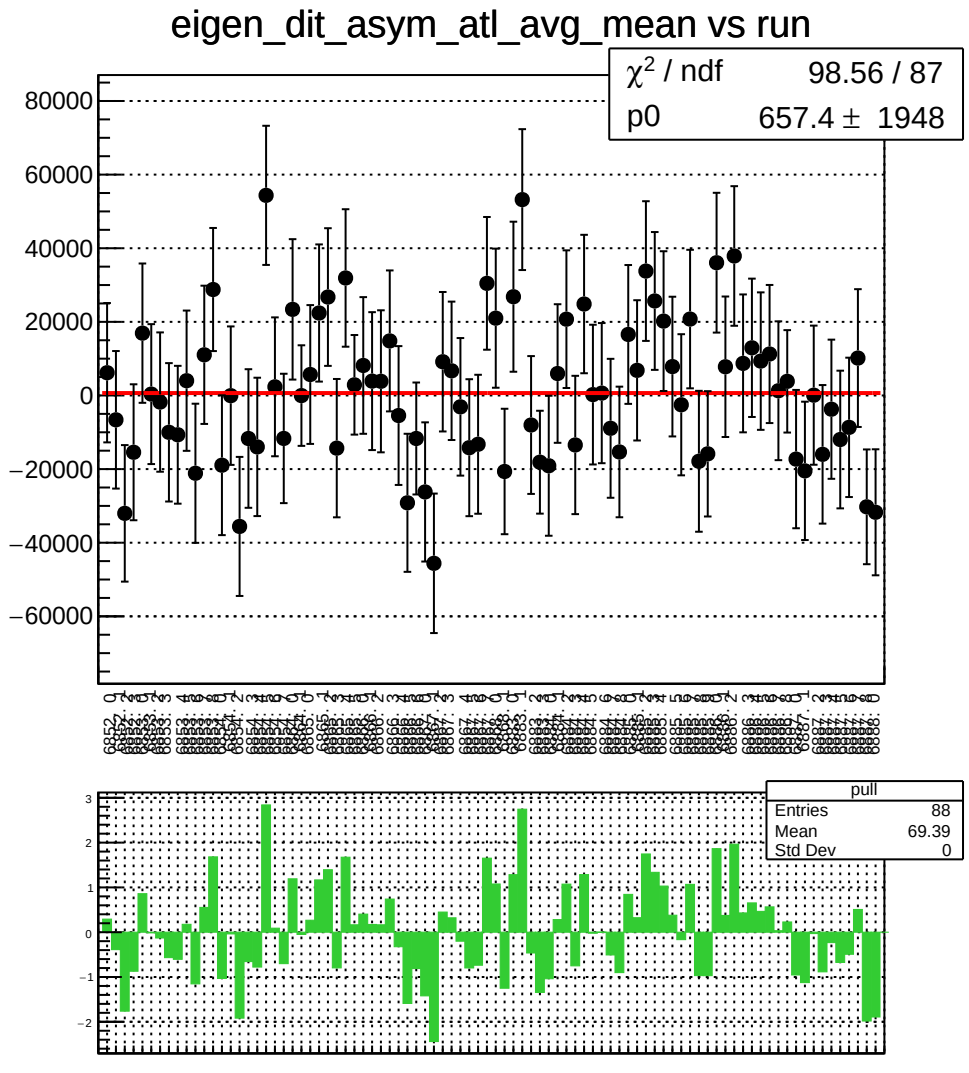

pull1D
Entries 88
Mean 0.01575
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

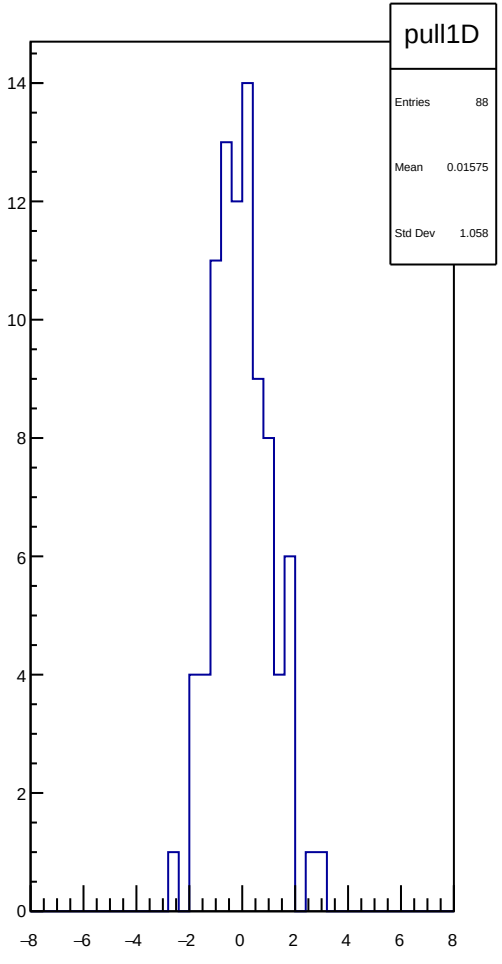

dit_asym_atl_avg_rms vs run
χ² / ndf 223.8 / 87
p0 1791 ± 1.378
1950
1900
1850
1800
1750

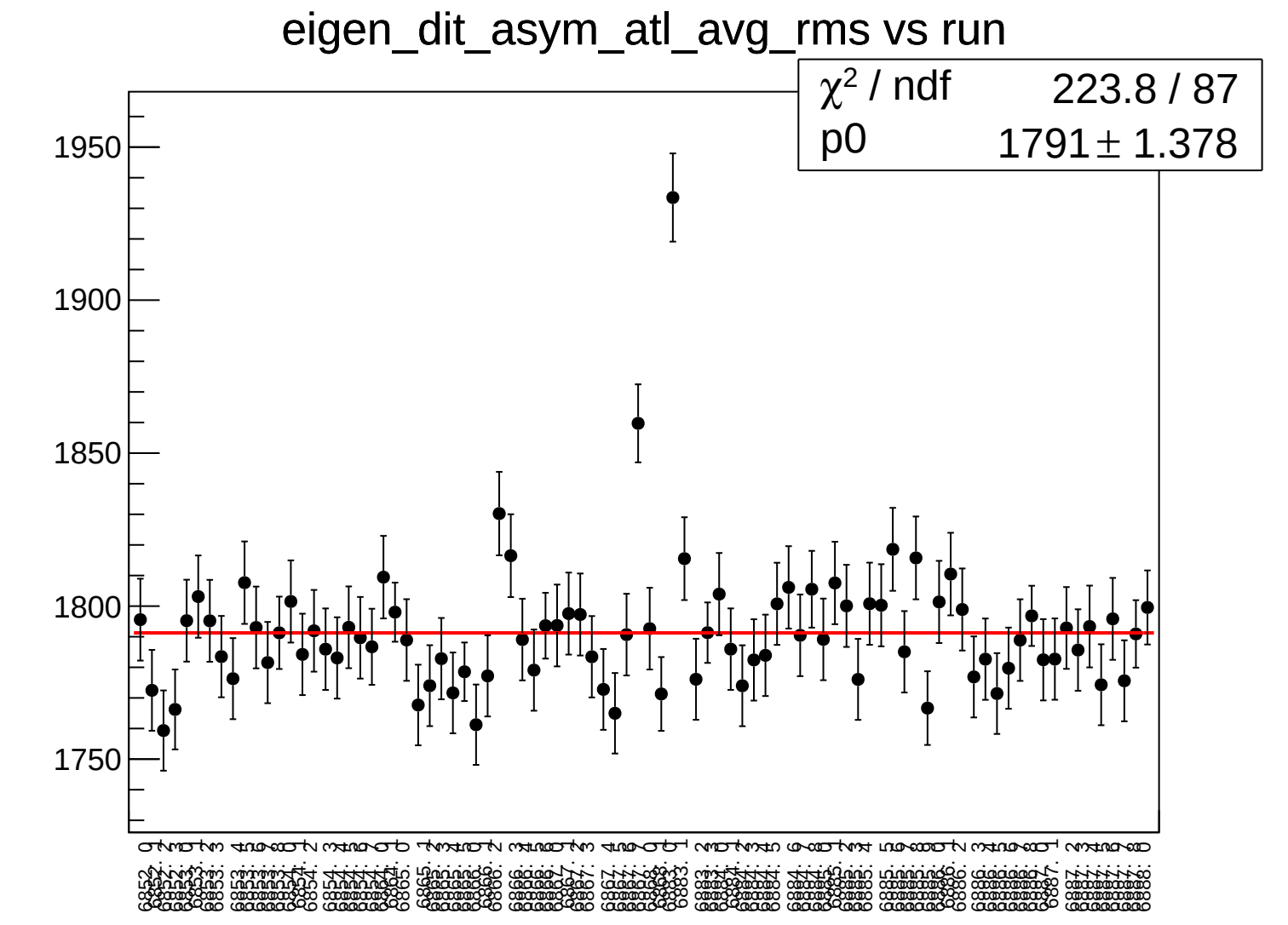

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 87.17 / 87
p0 −5036 ± 5323
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 49.81
Std Dev 0
3
2
1
0
−1
−2

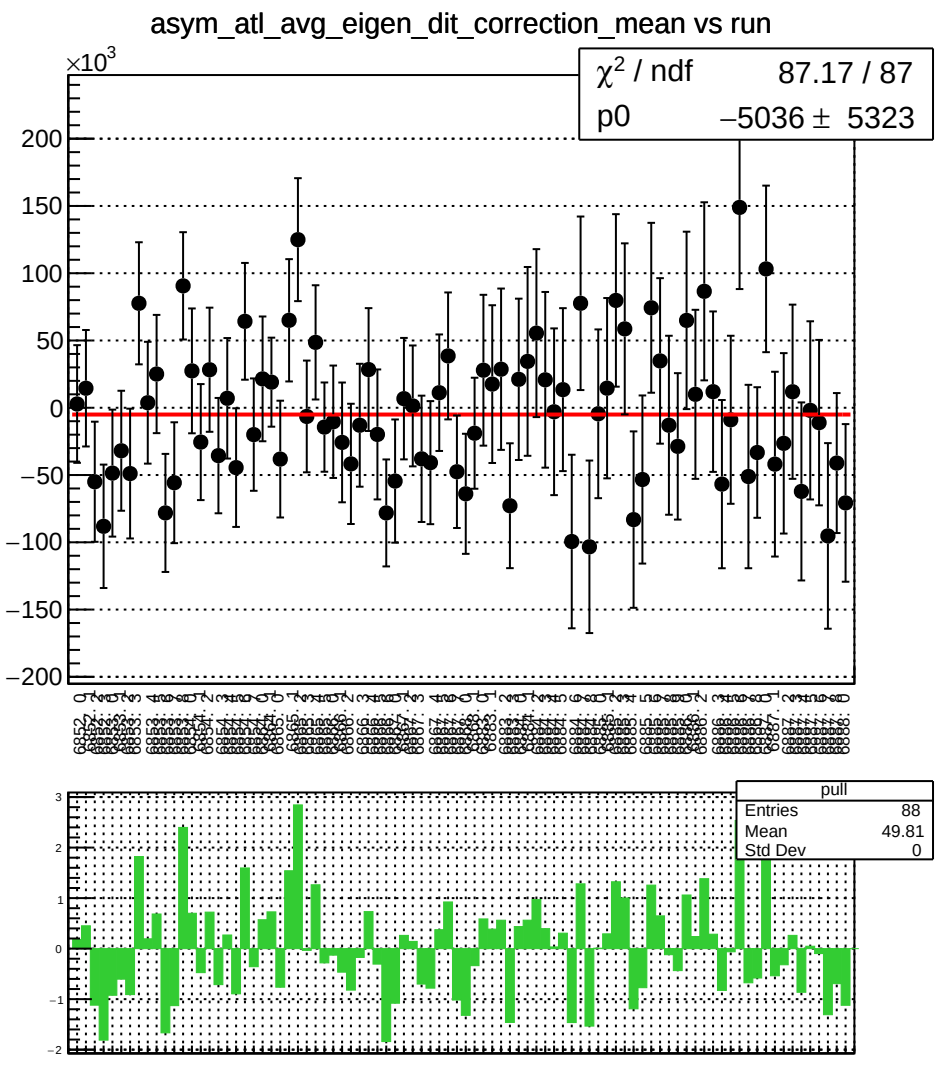

pull1D
Entries 88
Mean 0.01476
Std Dev 0.9951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

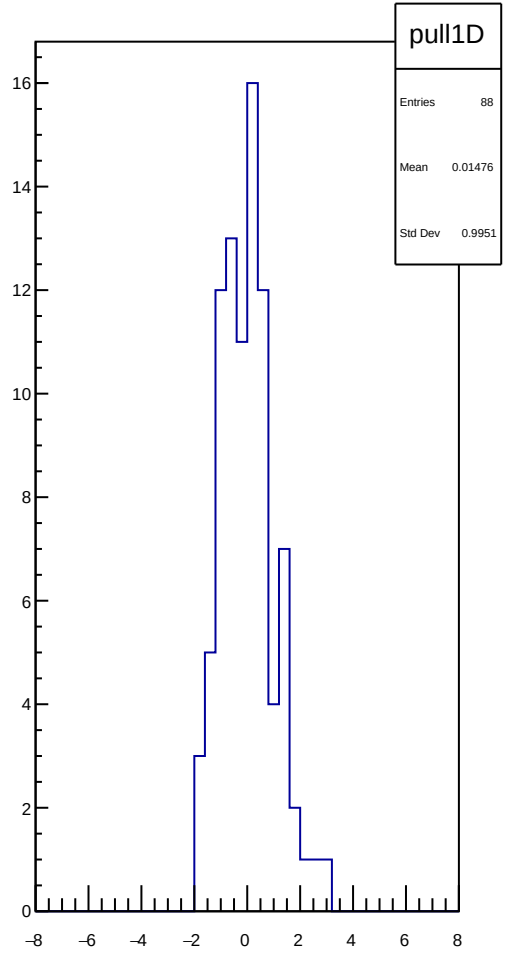

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 4.971e+04 / 87
p0 4822 ± 3.764
6500
6000
5500
5000
4500
4000

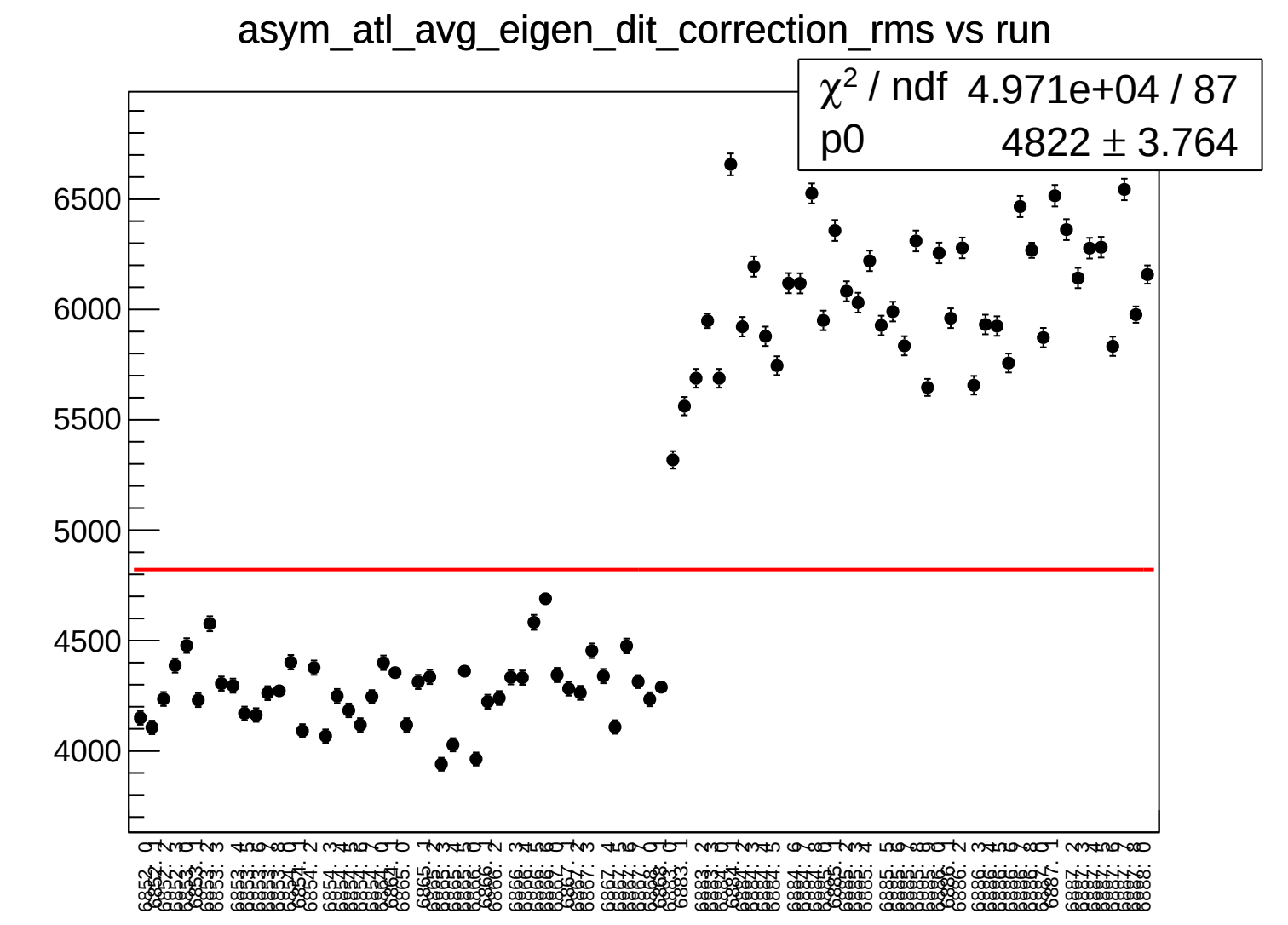

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 98.56 / 87
p0 657.4 ± 1948
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 69.39
Std Dev 0
3
2
1
0
−1
−2

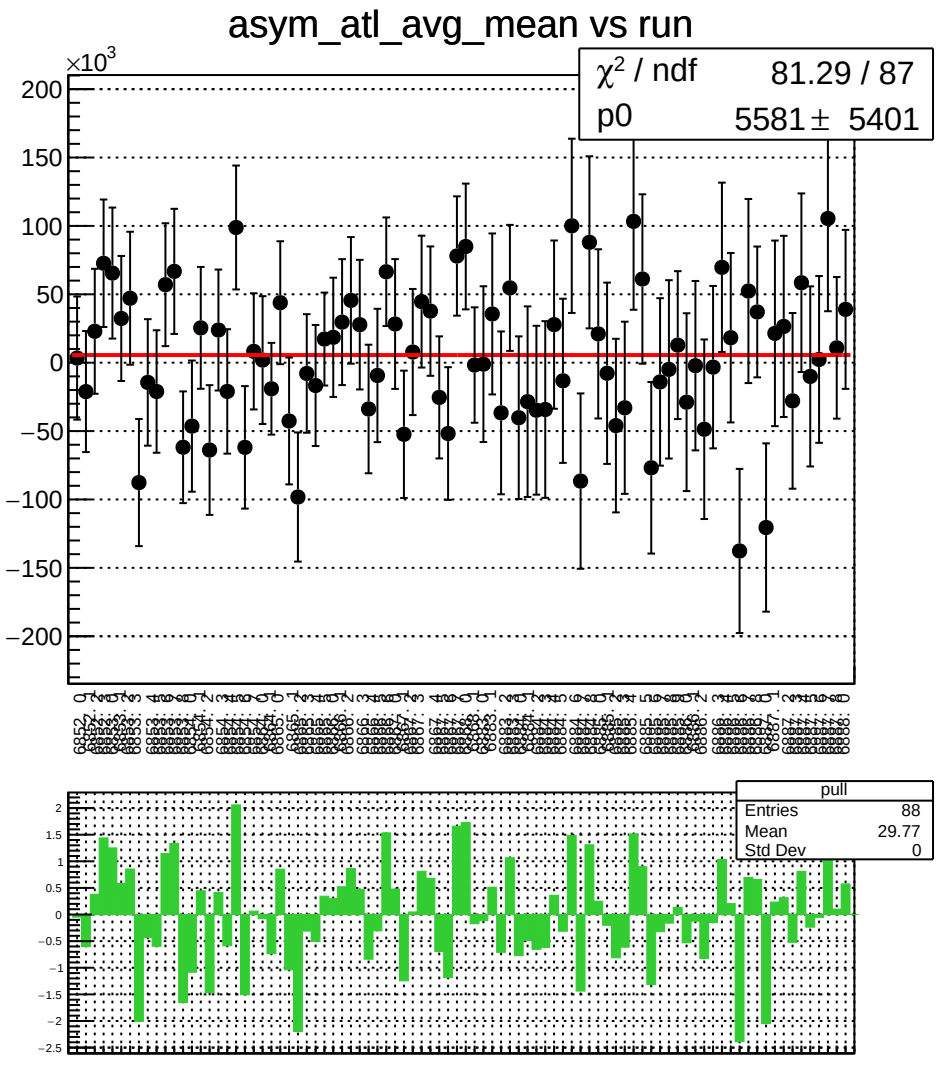

pull1D
Entries 88
Mean 0.01575
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

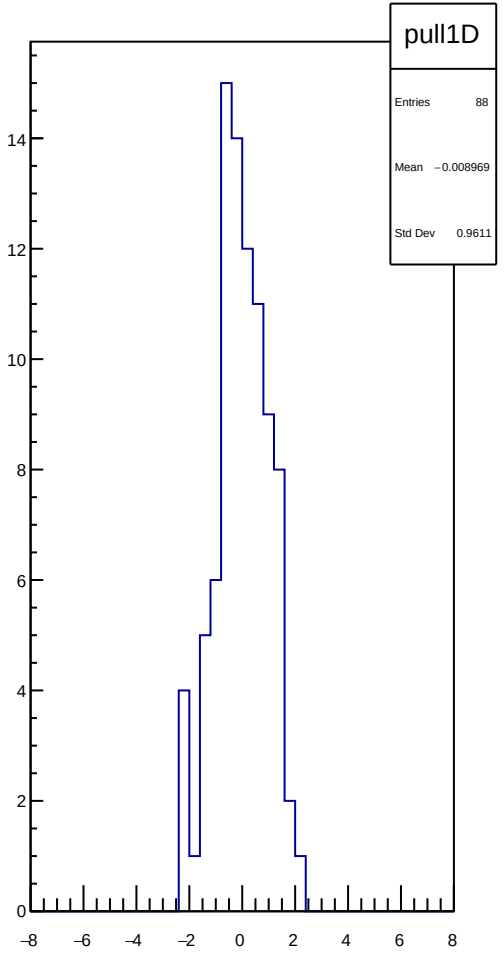

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 223.8 / 87
p0 1791 ± 1.378
1950
1900
1850
1800
1750

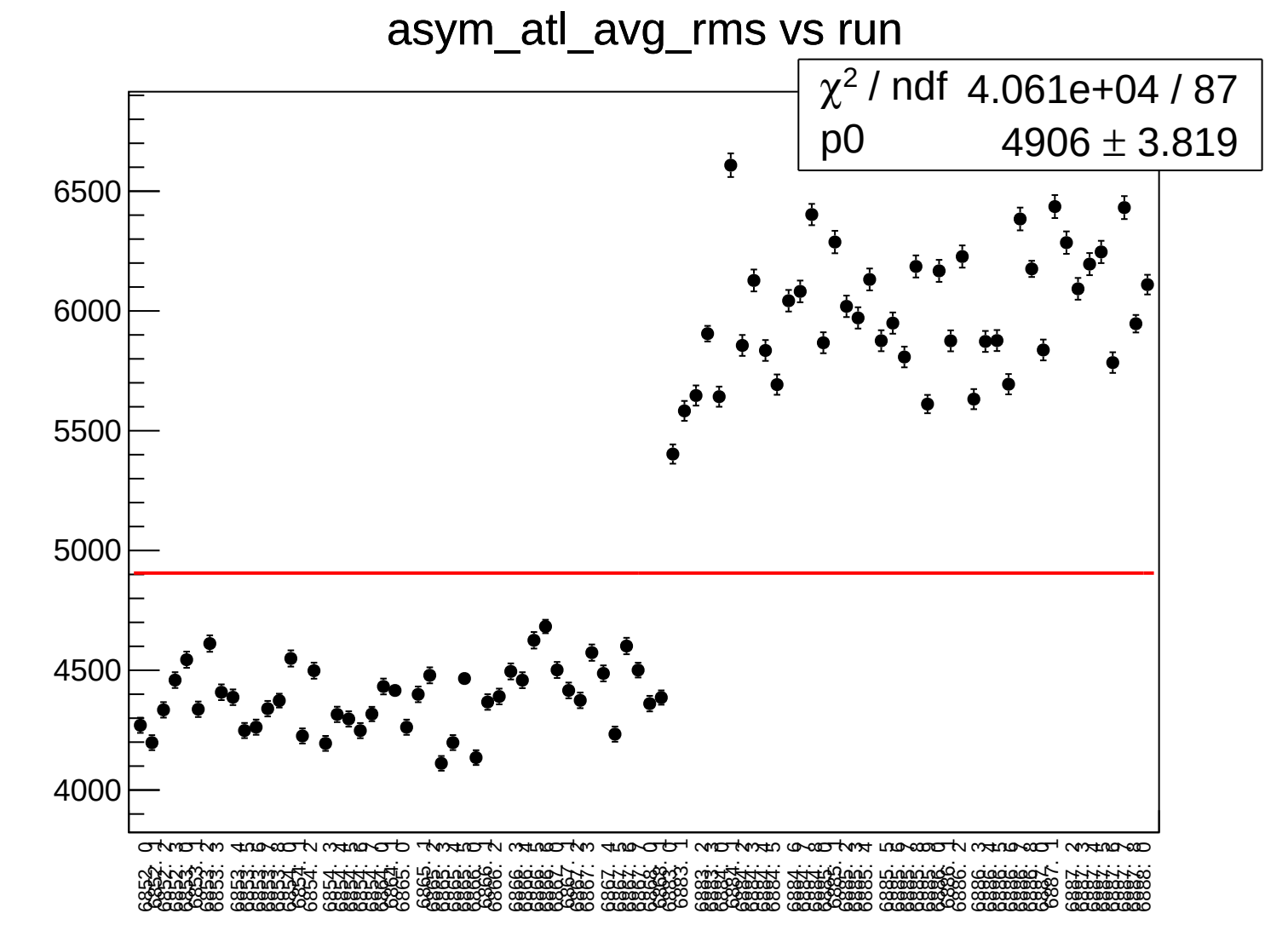

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.17 / 87
p0 −5036 ± 5323
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 49.81
Std Dev 0
3
2
1
0
−1
−2

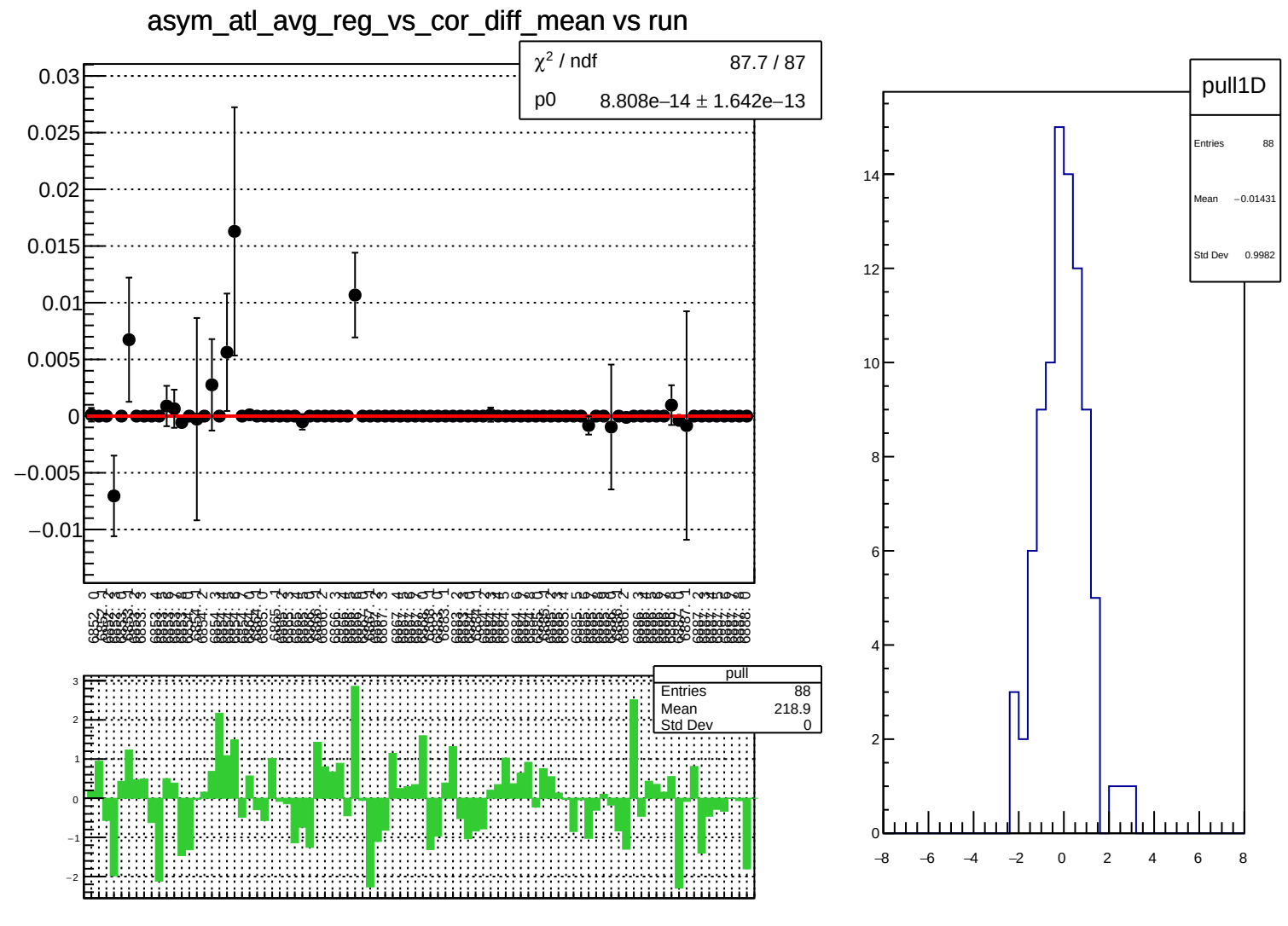

pull1D
Entries 88
Mean 0.01476
Std Dev 0.9951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

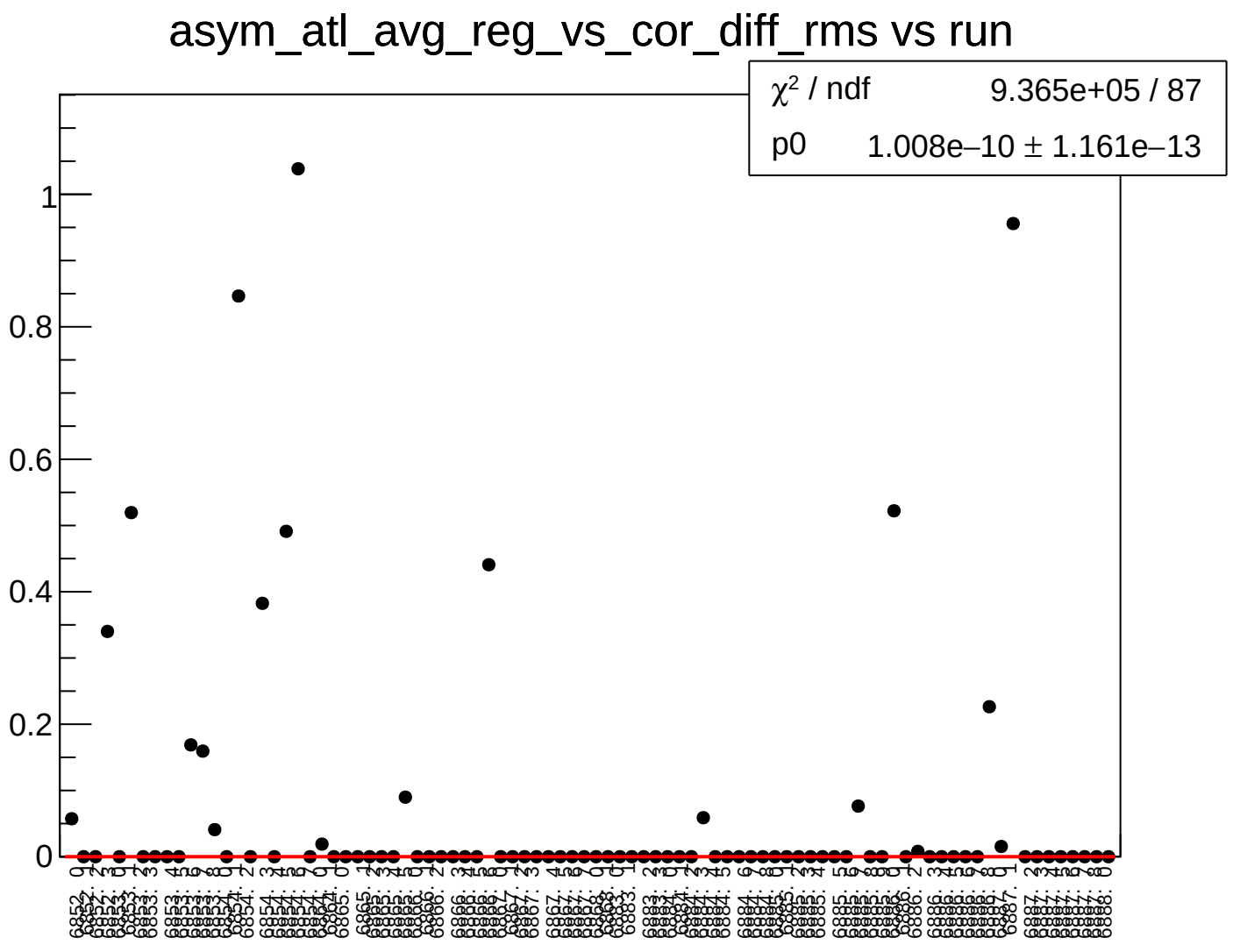

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.971e+04 / 87
p0 4822 ± 3.764
6500
6000
5500
5000
4500
4000

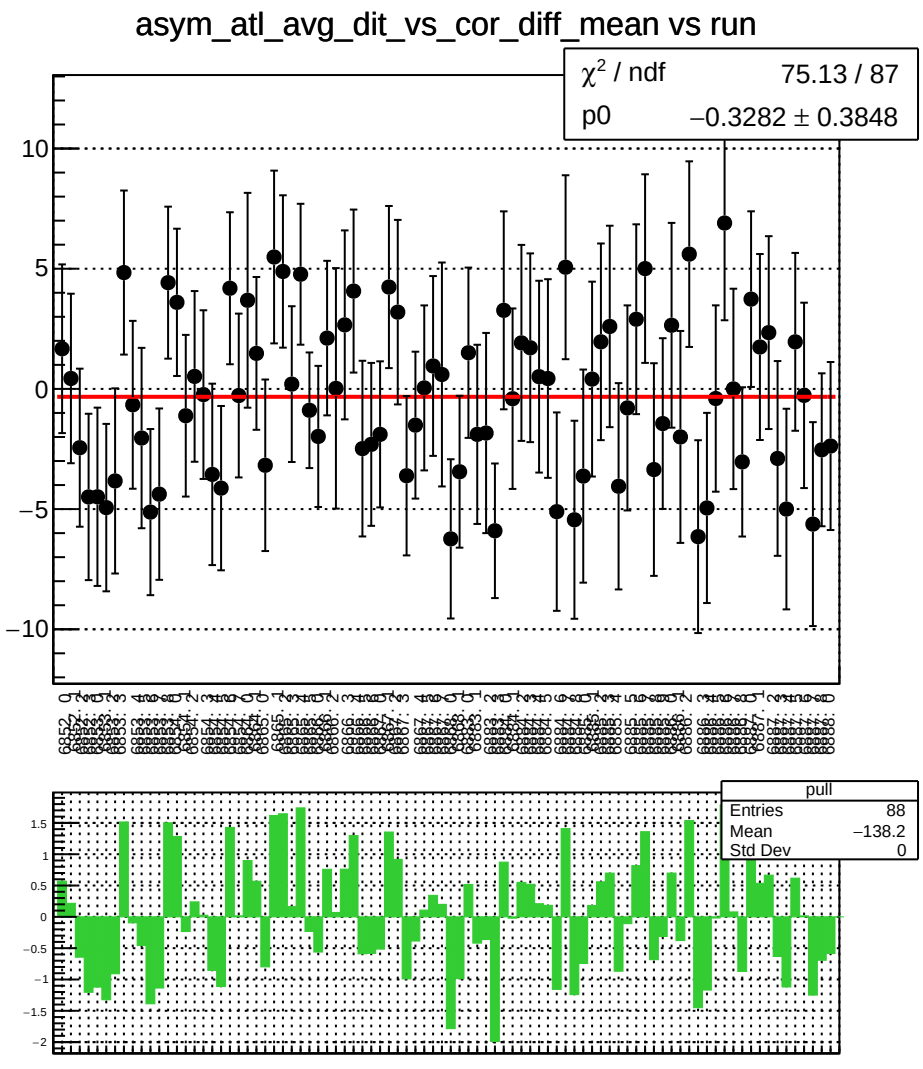

asym_atl_avg_mean vs run
×10^3
χ² / ndf 81.29 / 87
p0 5581 ± 5401
pull
Entries 88
Mean 29.77
Std Dev 0

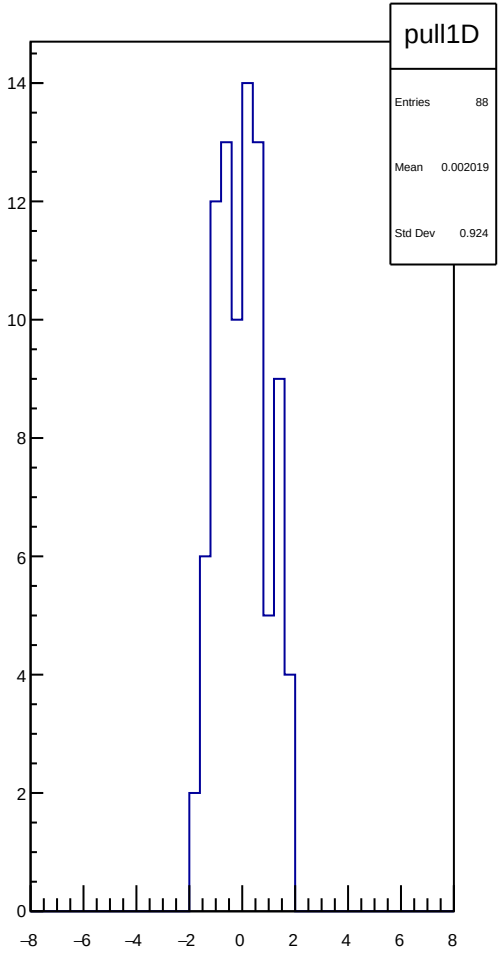

pull1D
Entries 88
Mean −0.008969
Std Dev 0.9611

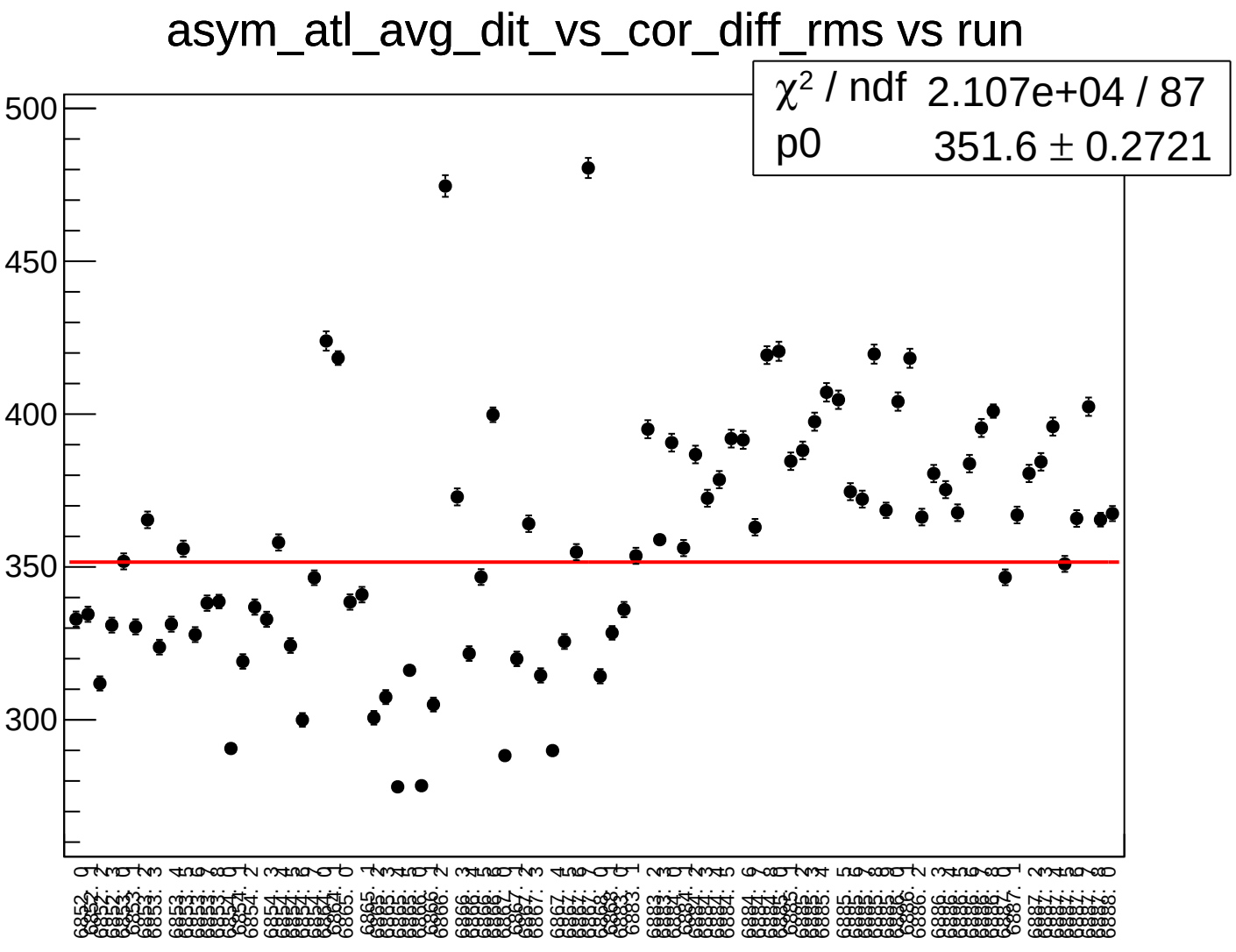

asym_atl_avg_rms vs run
χ² / ndf 4.061e+04 / 87
p0 4906 ± 3.819
6500
6000
5500
5000
4500
4000

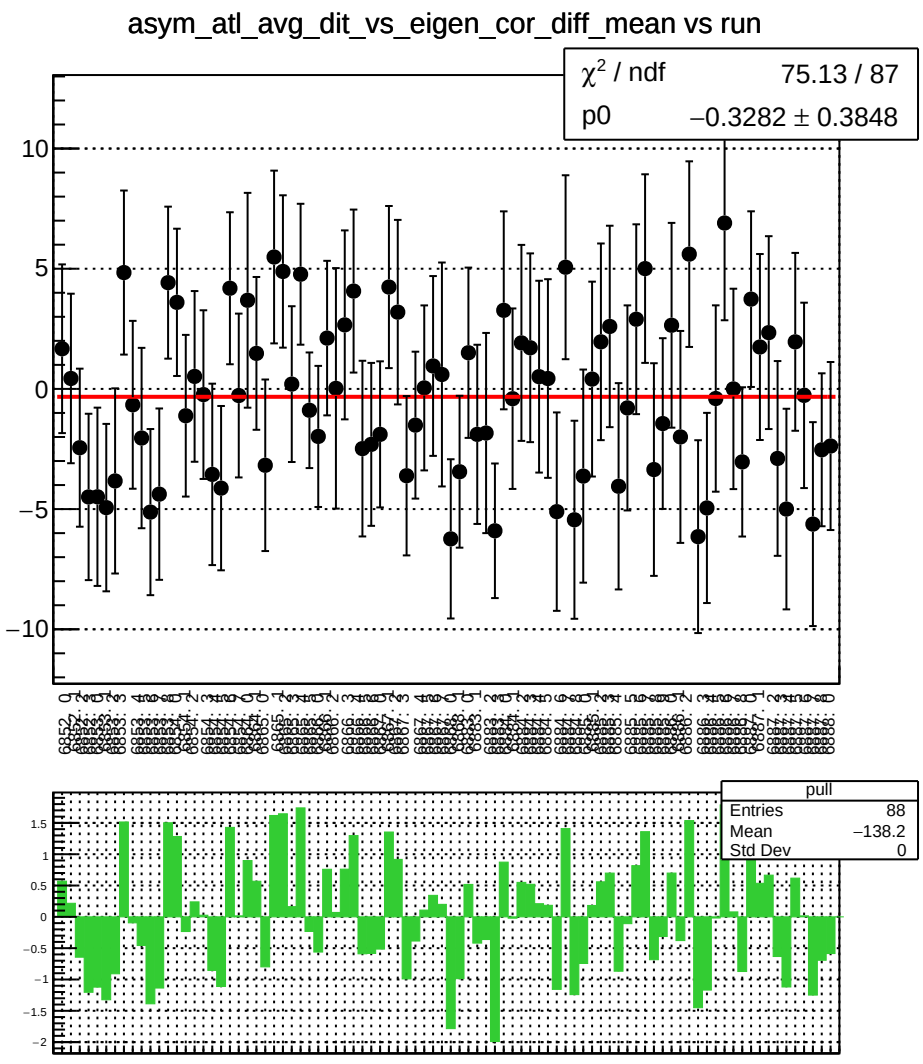

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.7 / 87
p0 8.808e−14 ± 1.642e−13
0.03
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 218.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01431
Std Dev 0.9982
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

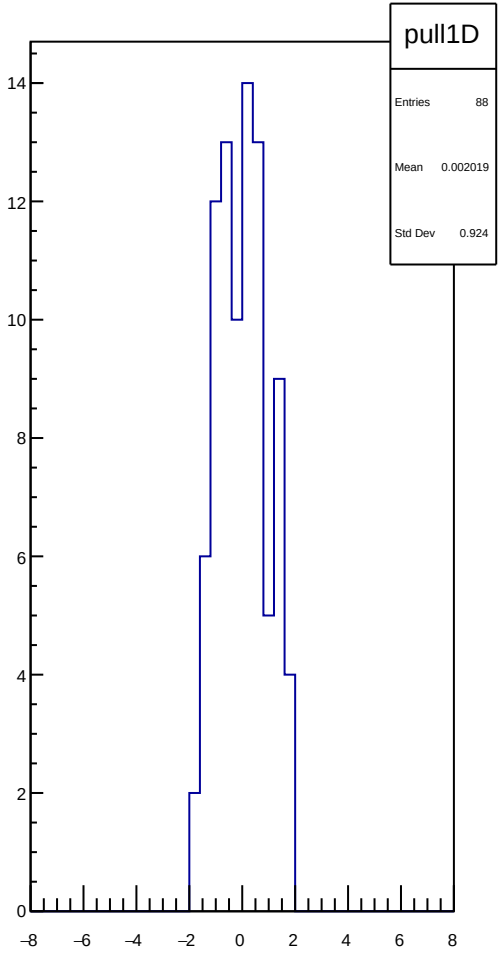

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.365e+05 / 87
p0 1.008e−10 ± 1.161e−13
1
0.8
0.6
0.4
0.2
0

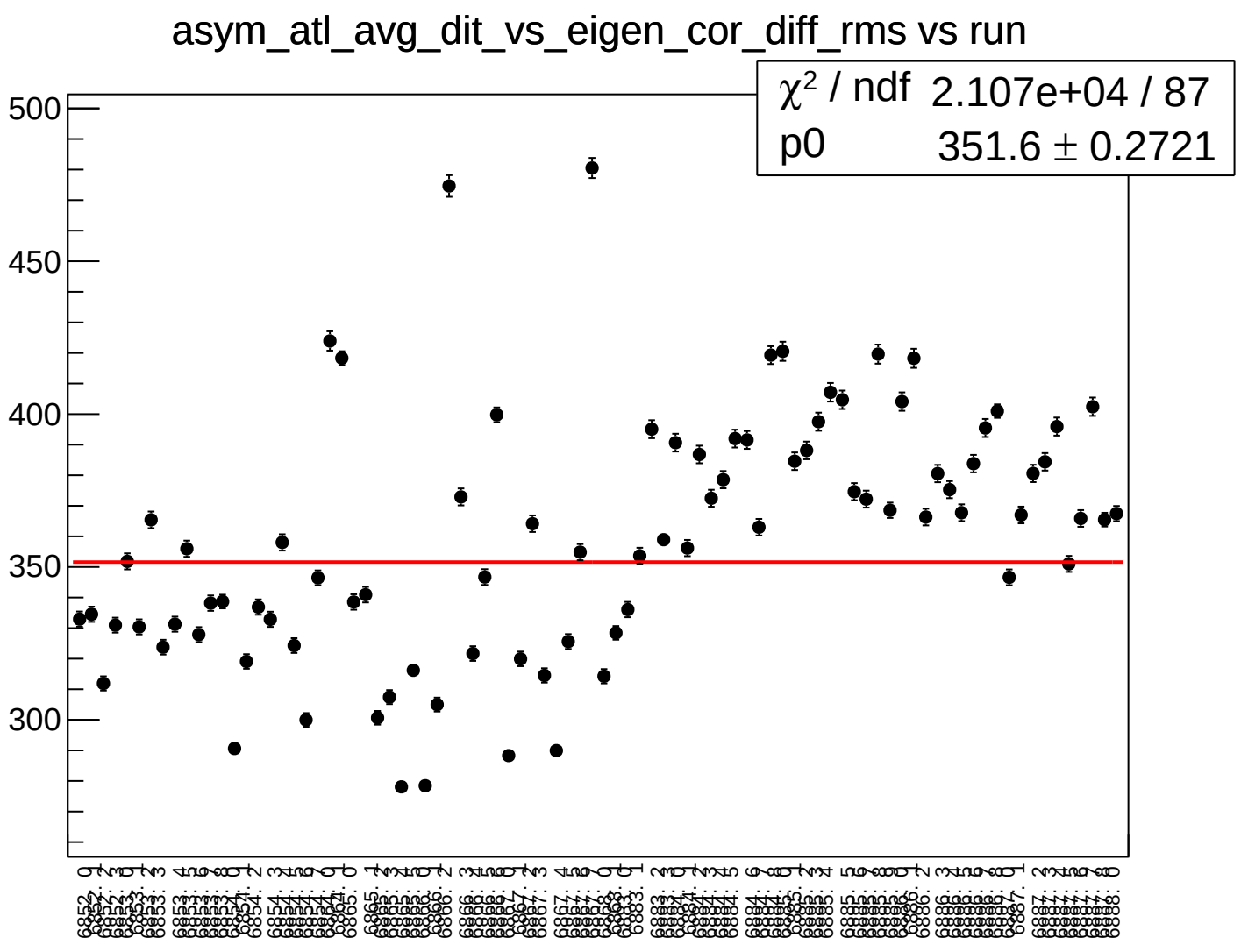

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.13 / 87
p0 −0.3282 ± 0.3848
pull
Entries 88
Mean −138.2
Std Dev 0

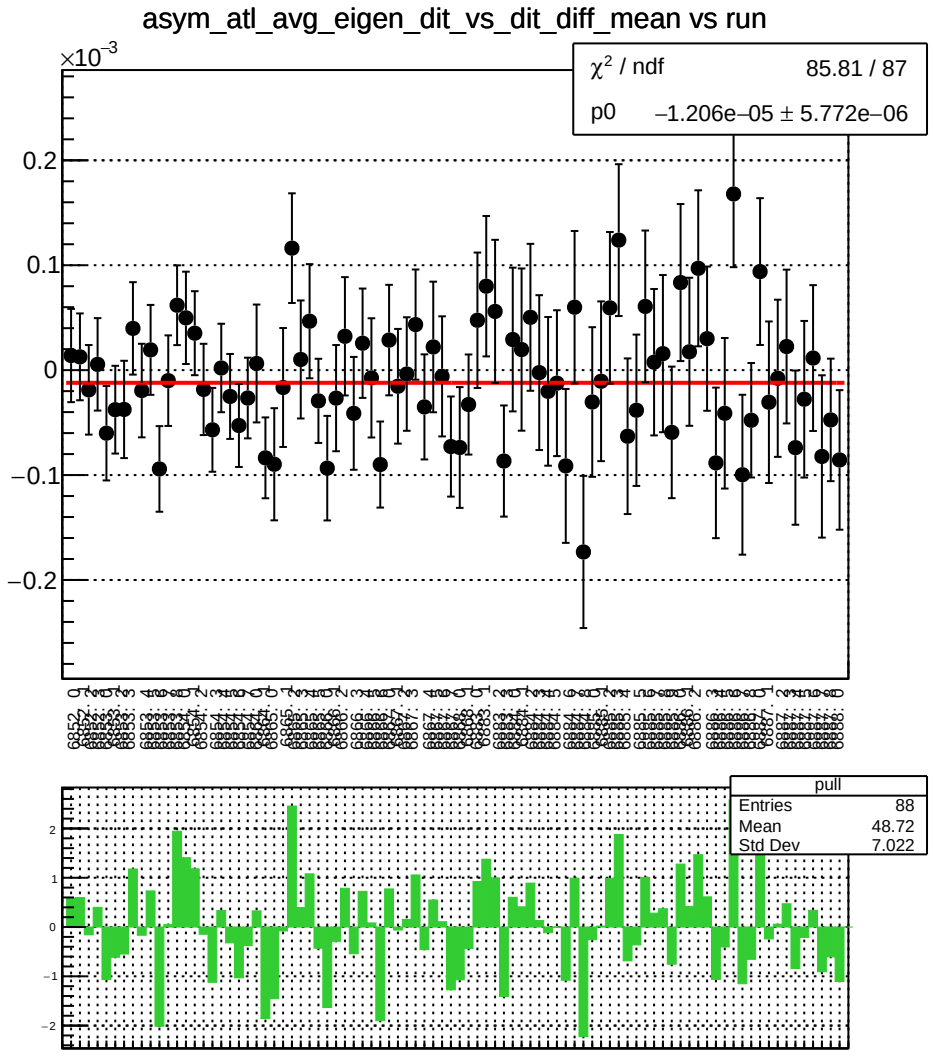

pull1D
Entries 88
Mean 0.002019
Std Dev 0.924

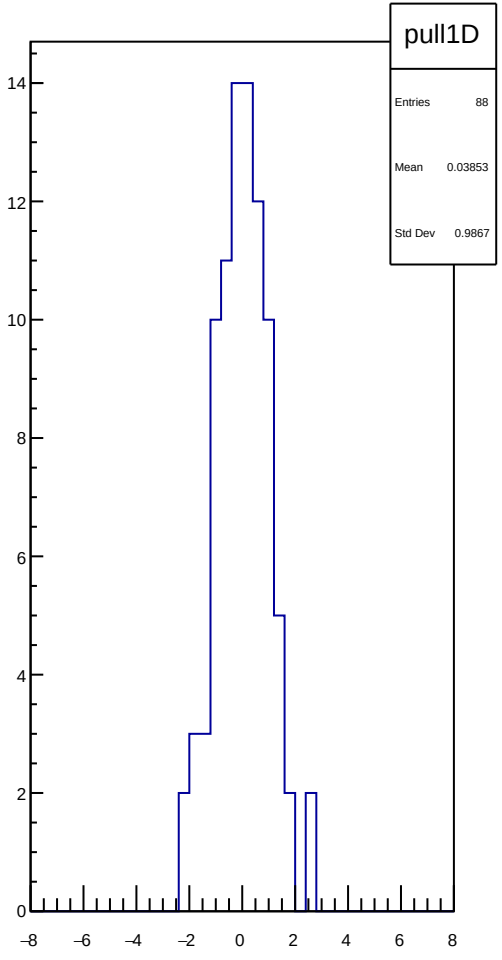

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.107e+04 / 87
p0 351.6 ± 0.2721
500
450
400
350
300

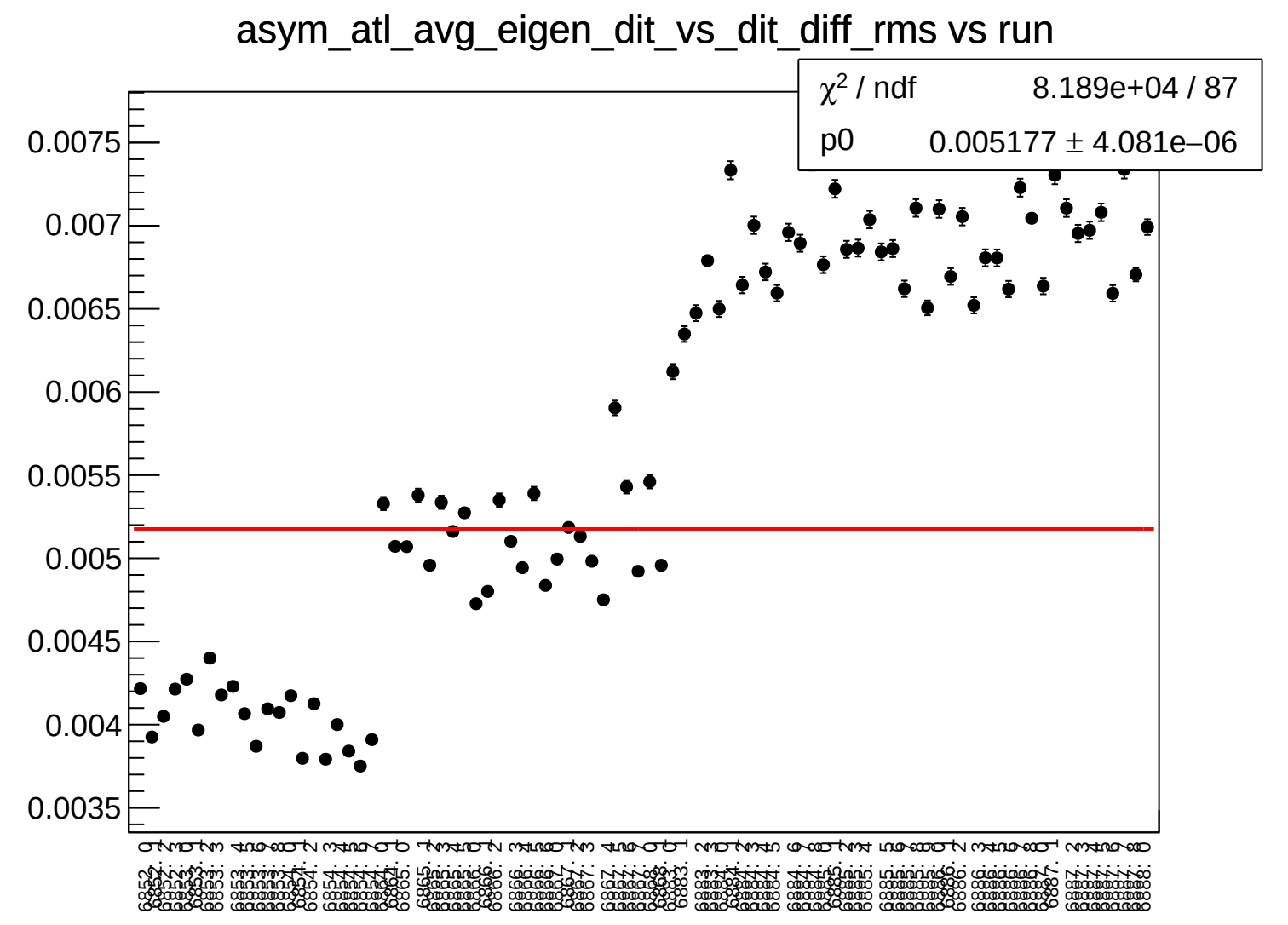

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.13 / 87
p0 −0.3282 ± 0.3848
pull
Entries 88
Mean −138.2
Std Dev 0

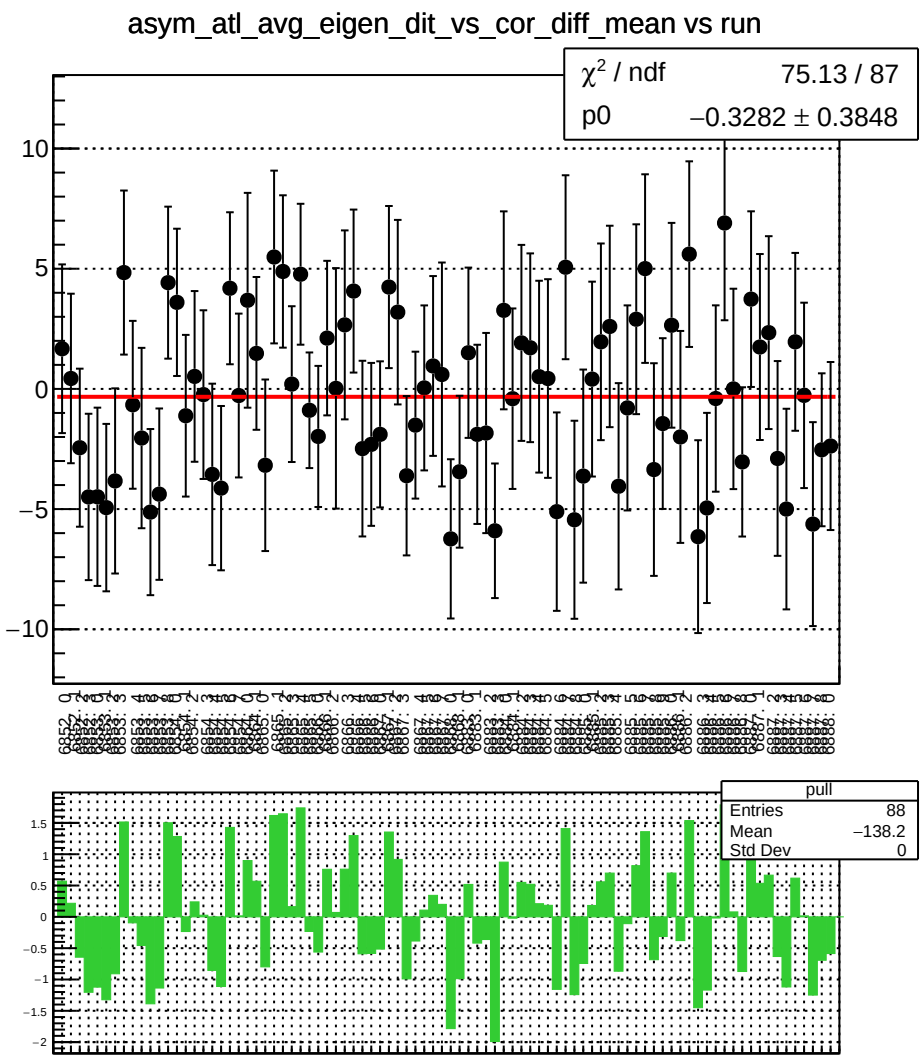

pull1D
Entries 88
Mean 0.002019
Std Dev 0.924

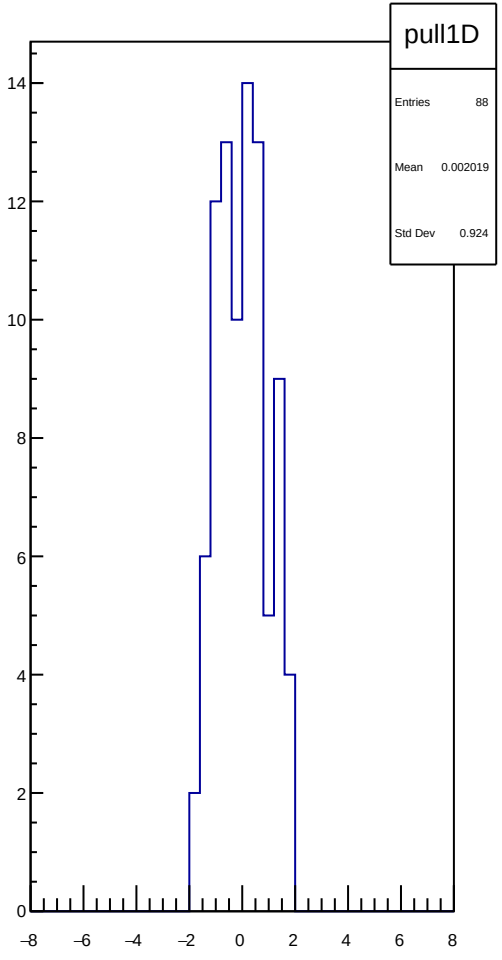

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.107e+04 / 87
p0 351.6 ± 0.2721
500
450
400
350
300

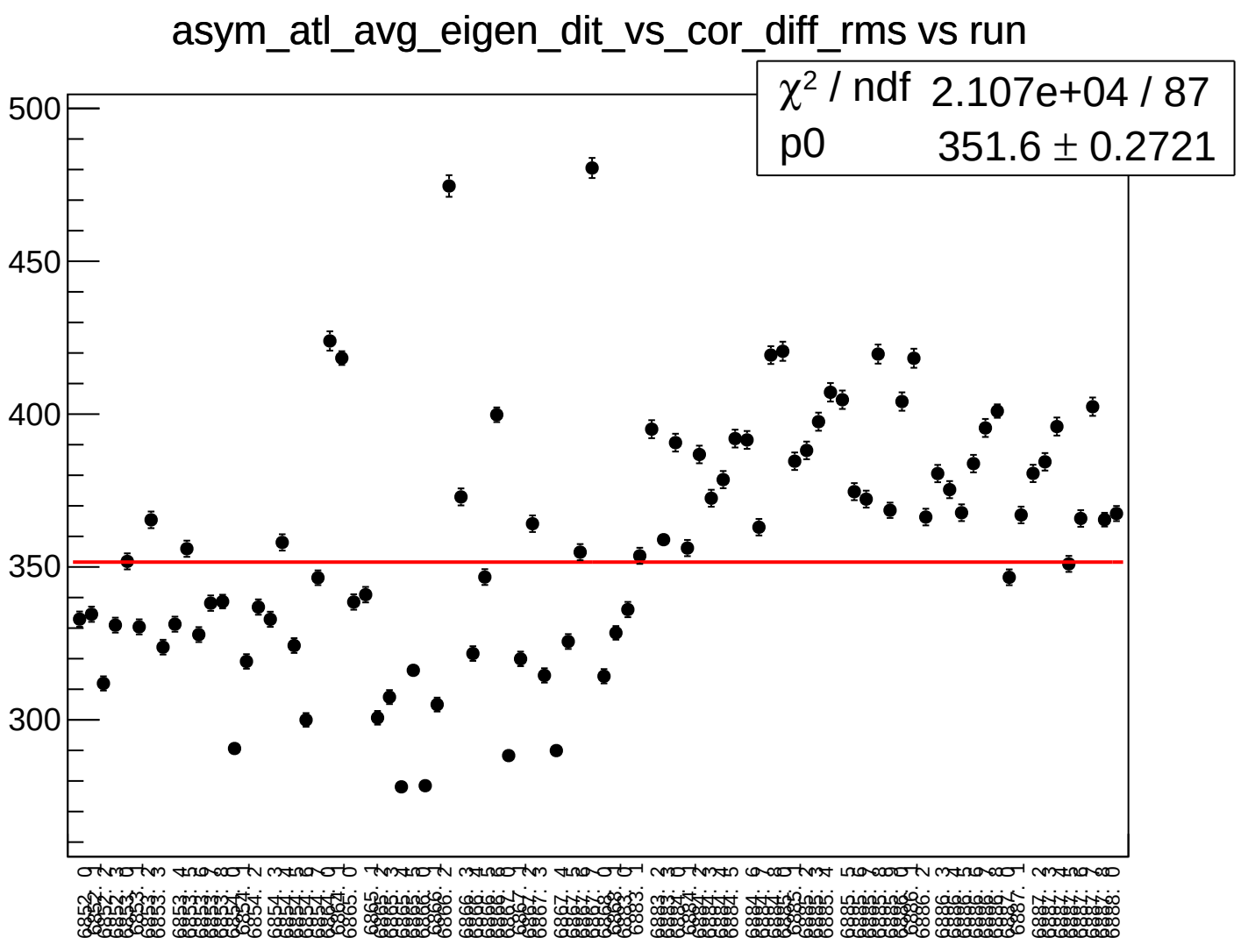

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.81 / 87
p0 −1.206e−05 ± 5.772e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean 48.72
Std Dev 7.022
2
1
0
−1
−2

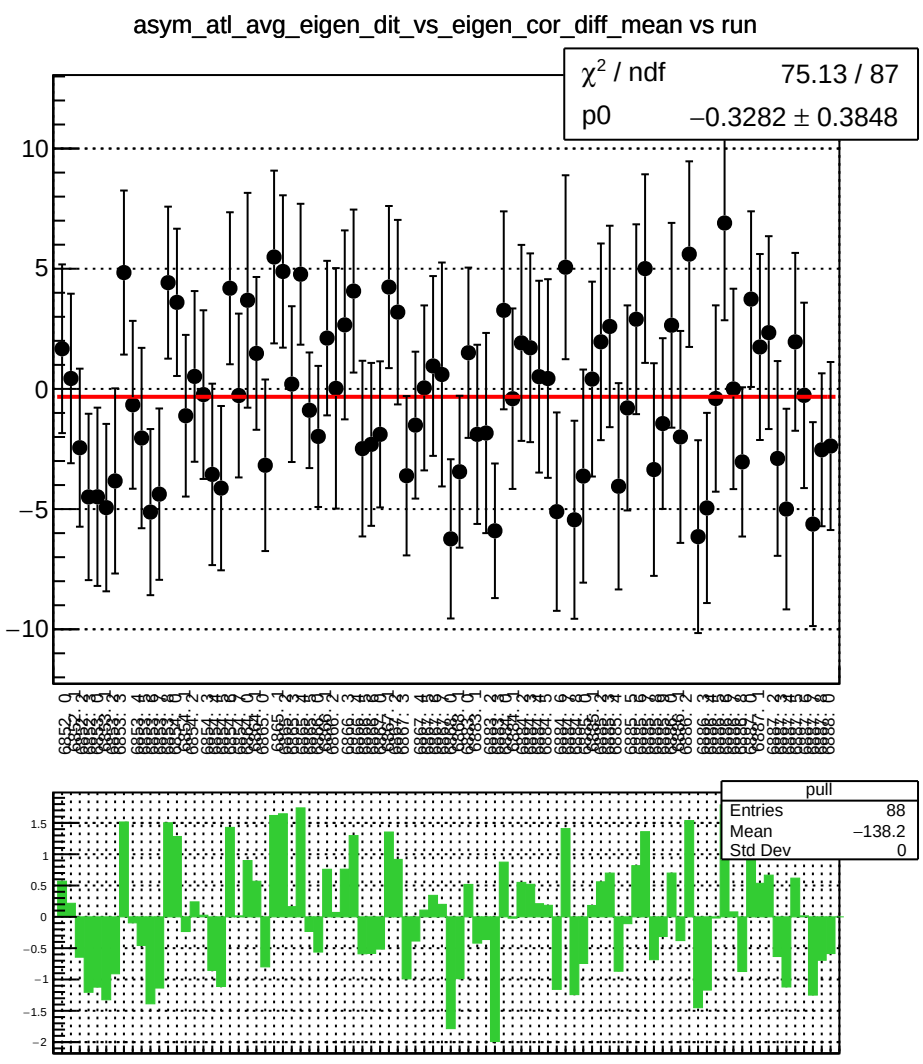

pull1D
Entries 88
Mean 0.03853
Std Dev 0.9867
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

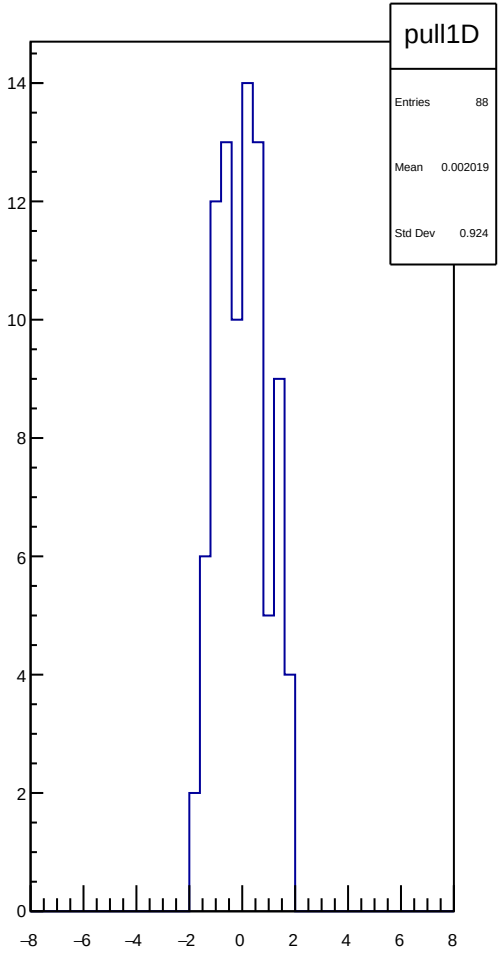

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.189e+04 / 87
p0 0.005177 ± 4.081e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

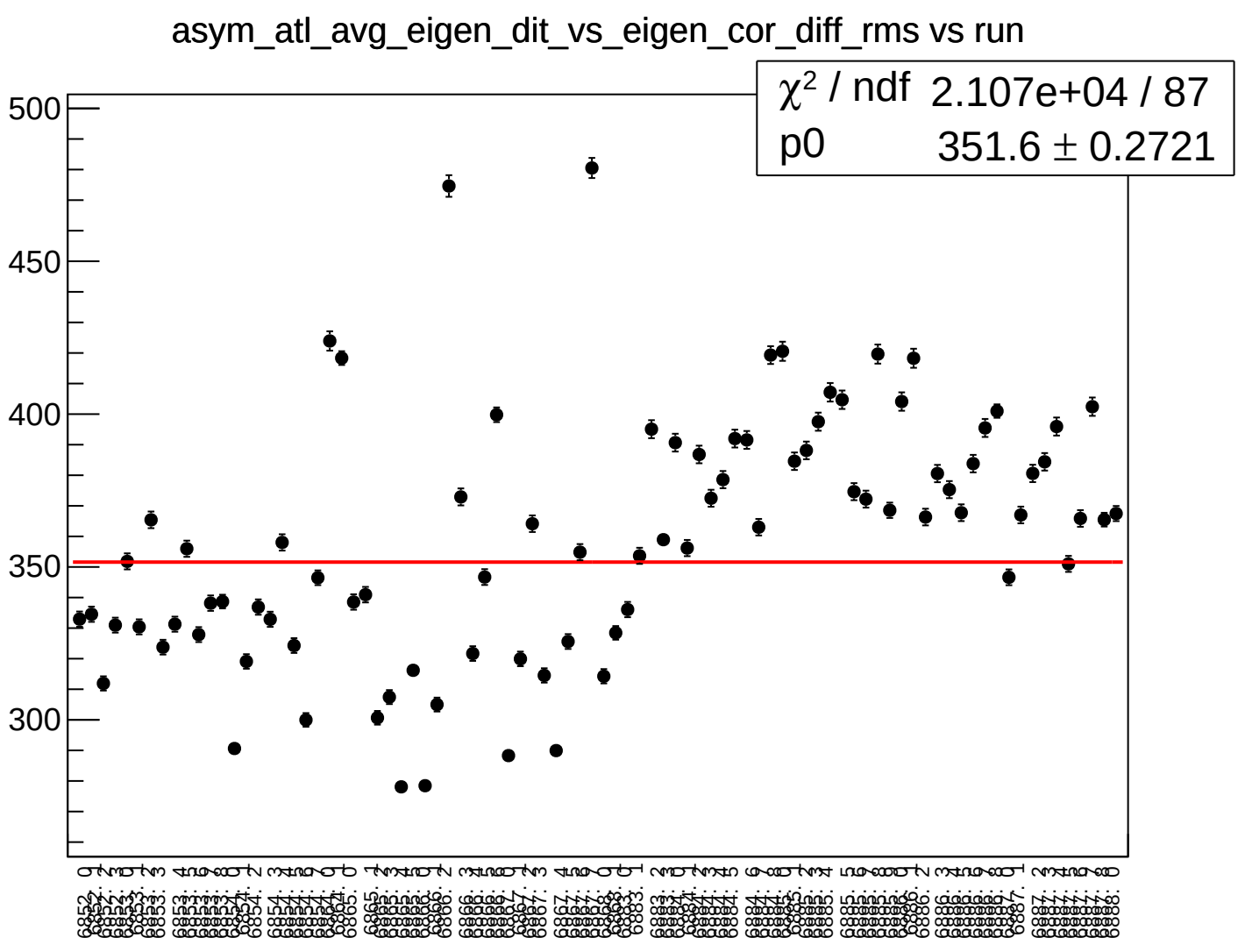

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.13 / 87
p0 −0.3282 ± 0.3848
pull
Entries 88
Mean −138.2
Std Dev 0

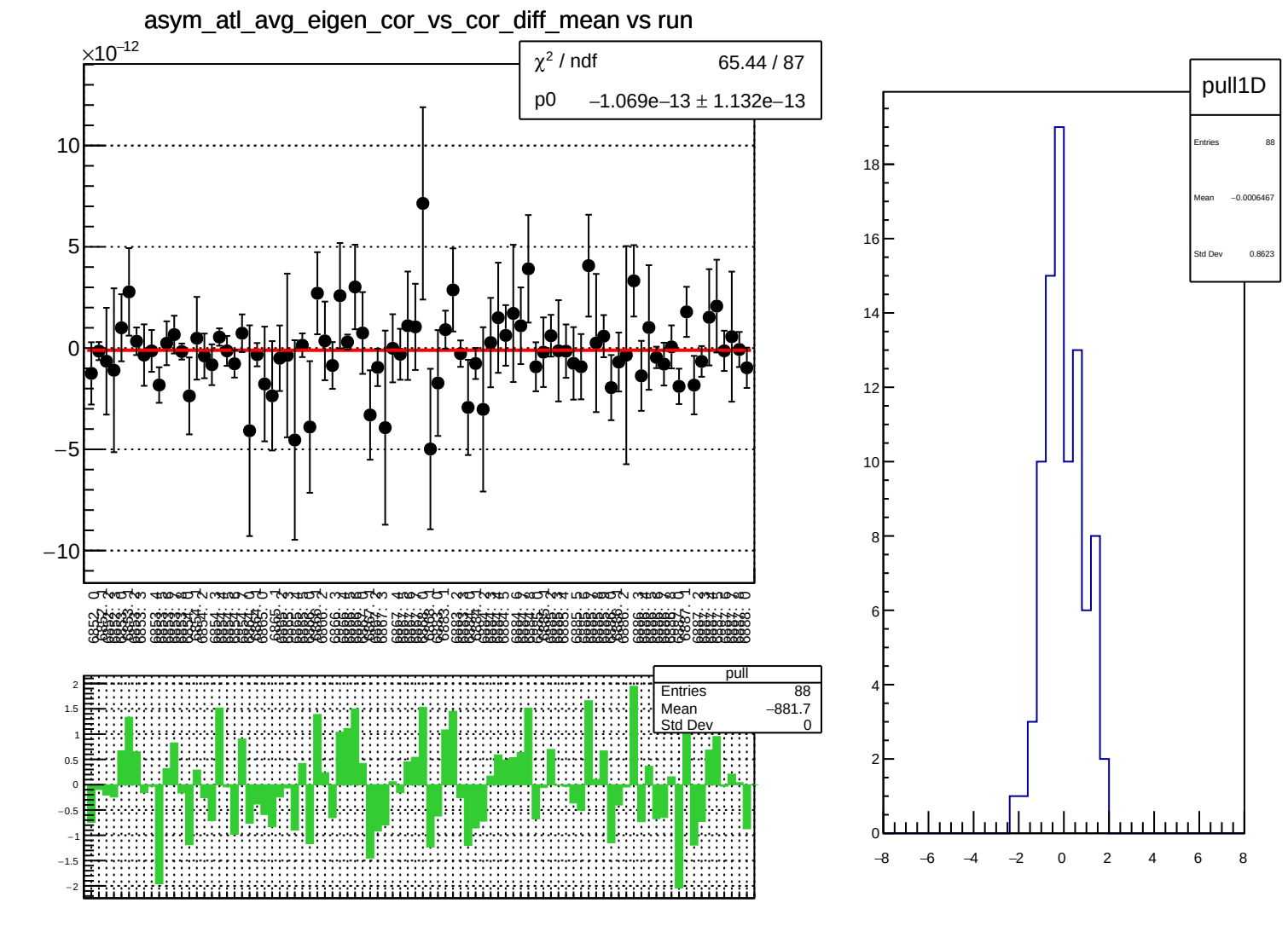

pull1D
Entries 88
Mean 0.002019
Std Dev 0.924

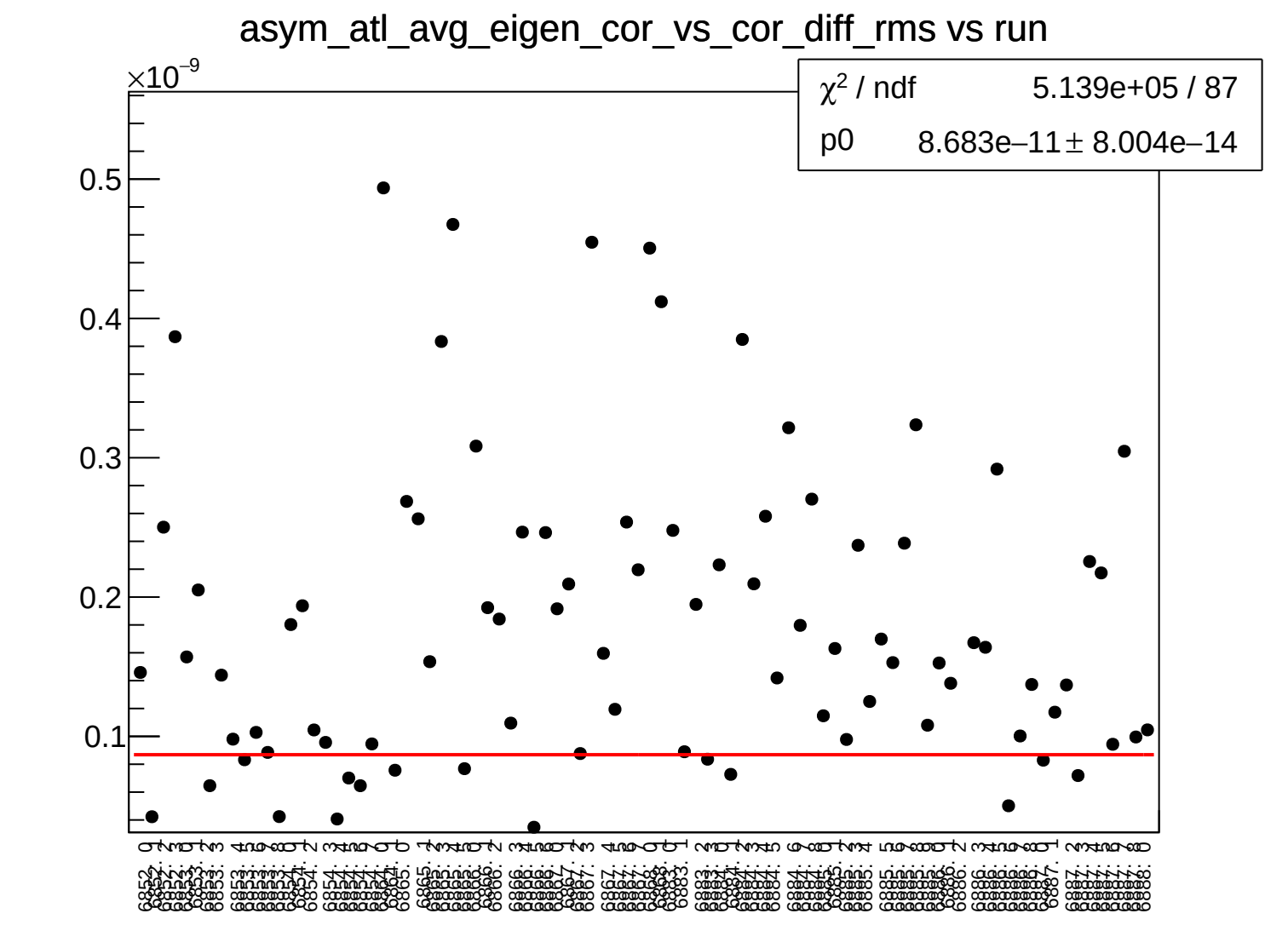

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.107e+04 / 87
p0 351.6 ± 0.2721
500
450
400
350
300

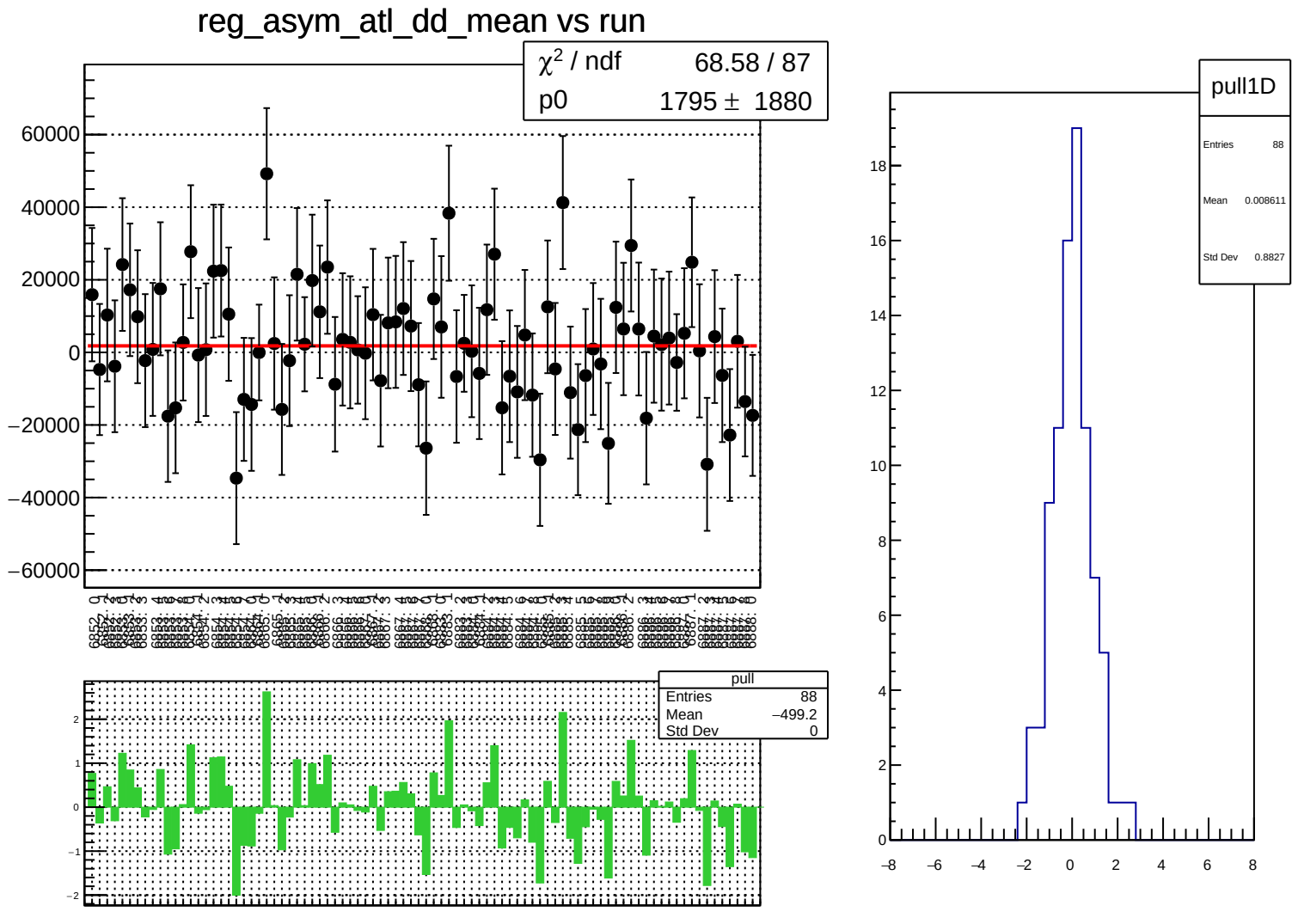

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.13 / 87
p0 −0.3282 ± 0.3848
pull
Entries 88
Mean −138.2
Std Dev 0

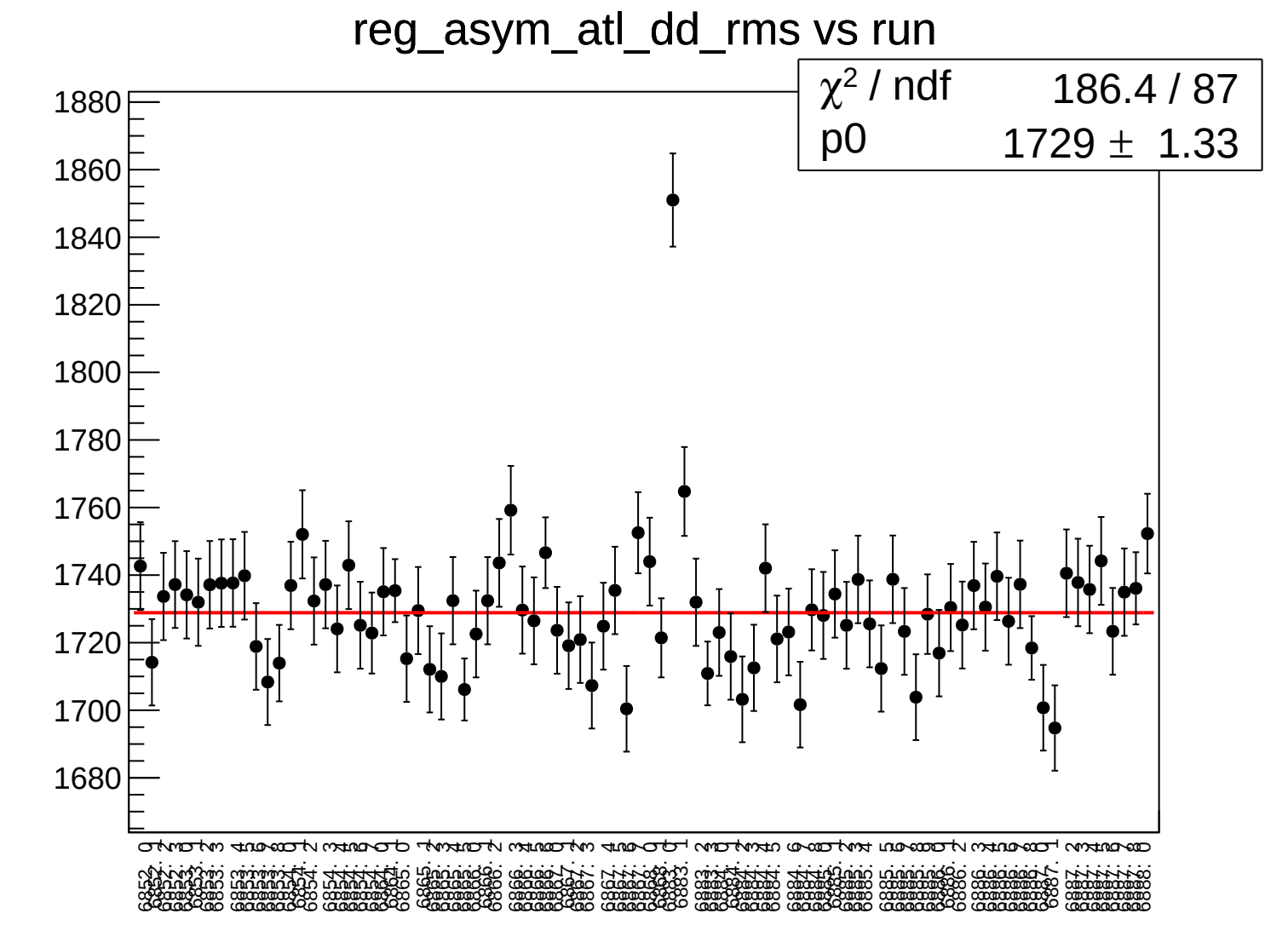

pull1D
Entries 88
Mean 0.002019
Std Dev 0.924

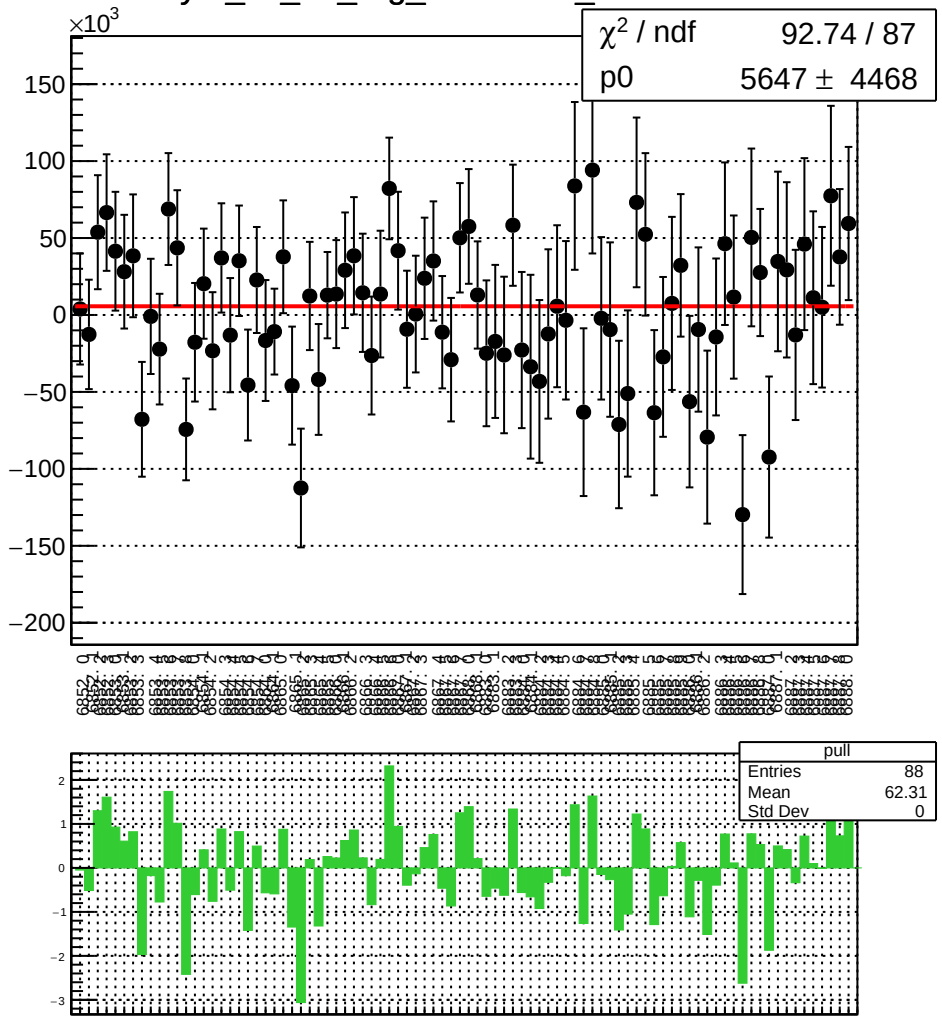

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.107e+04 / 87
p0 351.6 ± 0.2721
500
450
400
350
300

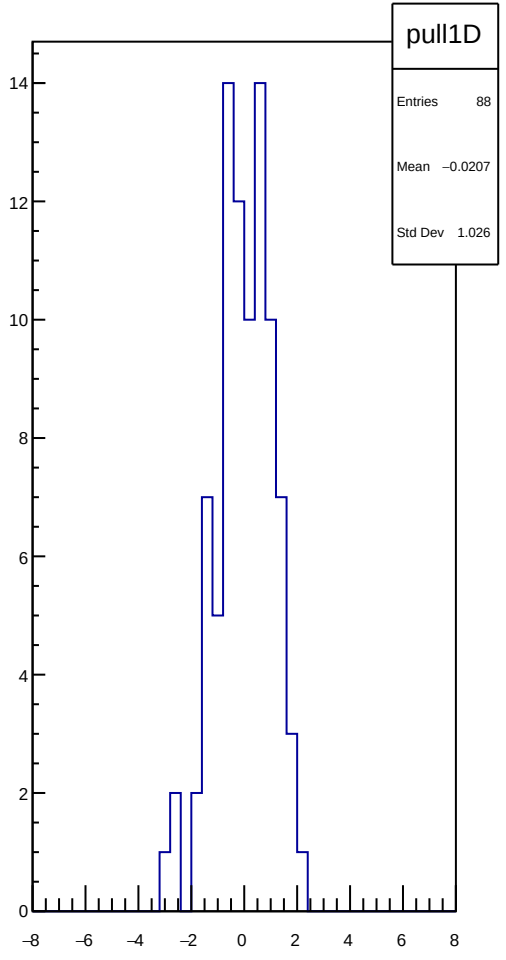

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.44 / 87
p0 −1.069e−13 ± 1.132e−13
10
5
0
−5
−10
pull
Entries 88
Mean −881.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.0006467
Std Dev 0.8623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

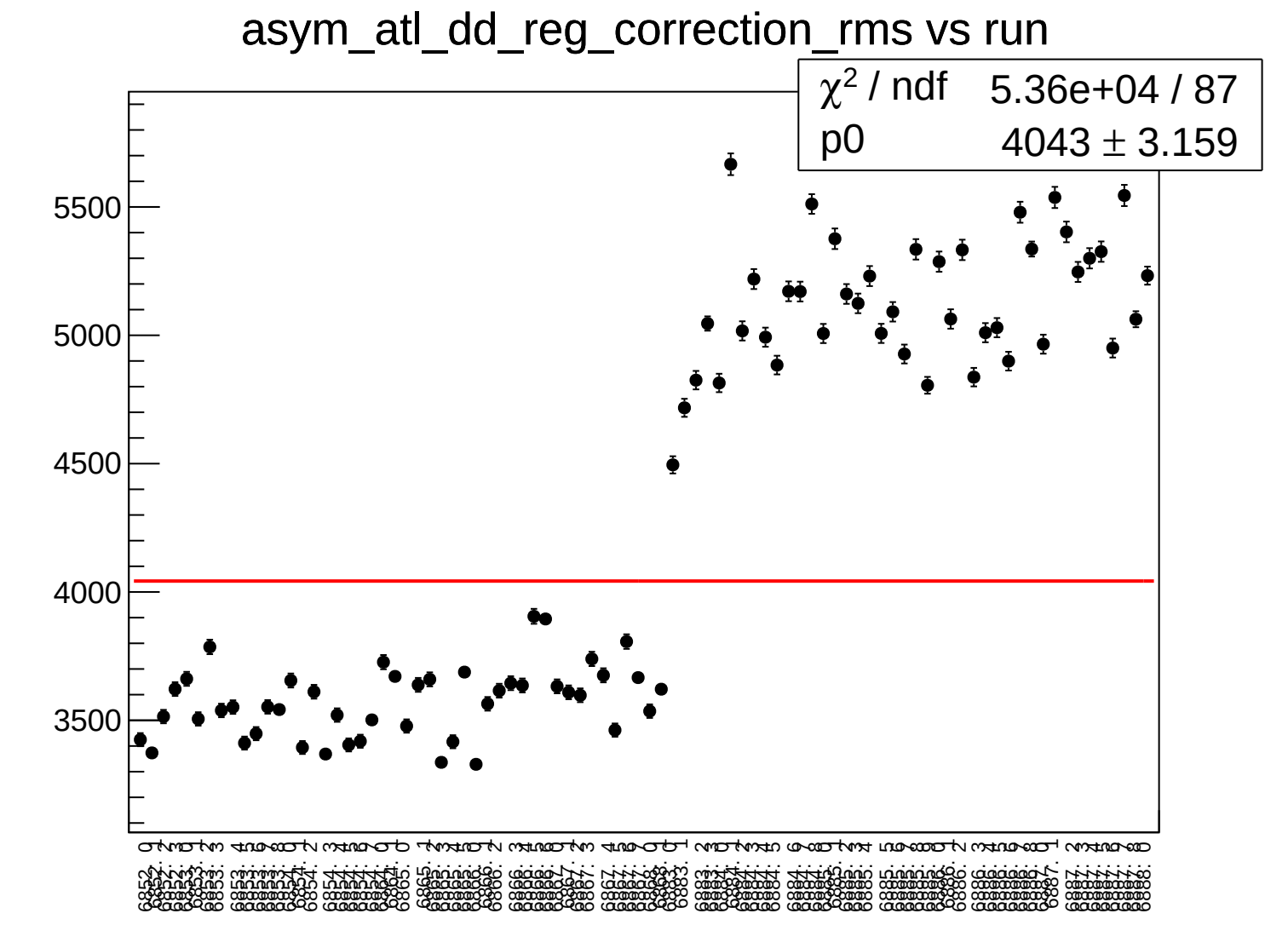

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.139e+05 / 87
p0 8.683e−11 ± 8.004e−14
0.5
0.4
0.3
0.2
0.1

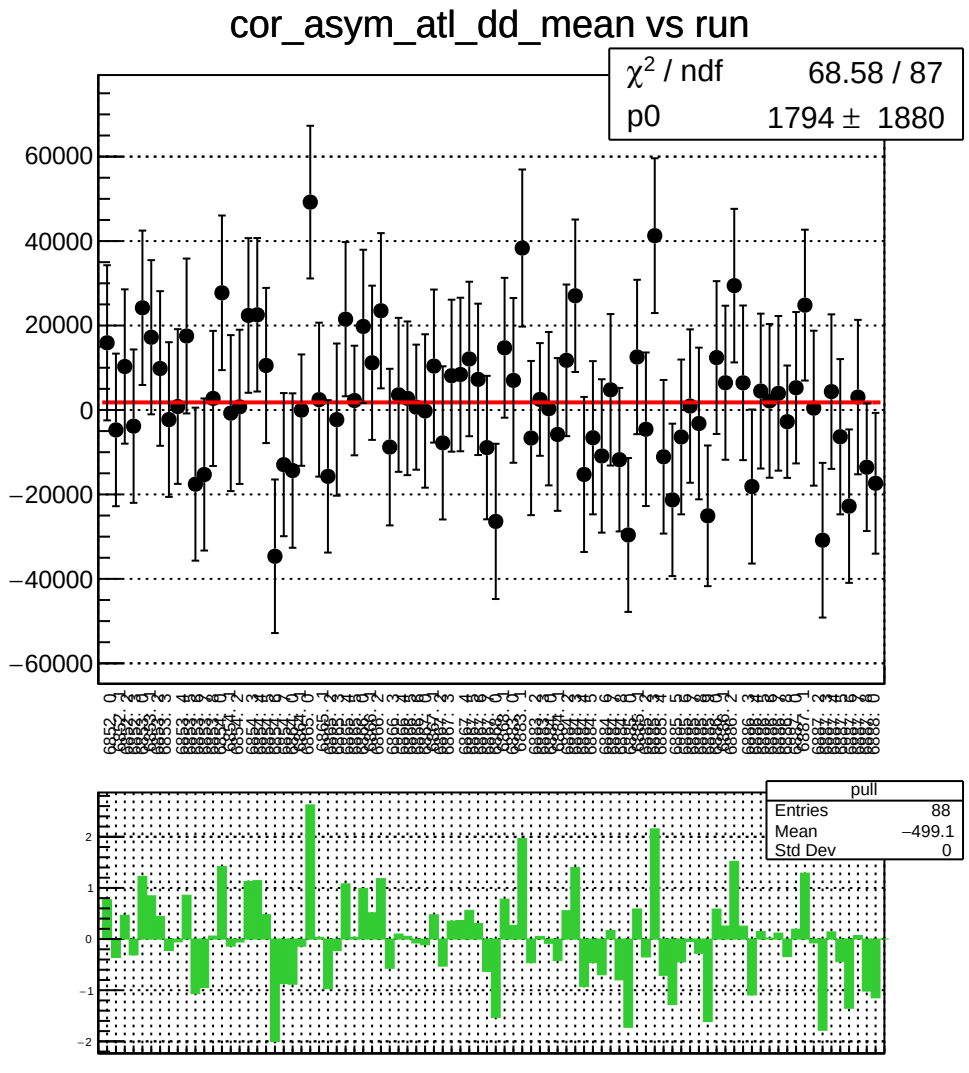

reg_asym_atl_dd_mean vs run
χ² / ndf 68.58 / 87
p0 1795 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −499.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.008611
Std Dev 0.8827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

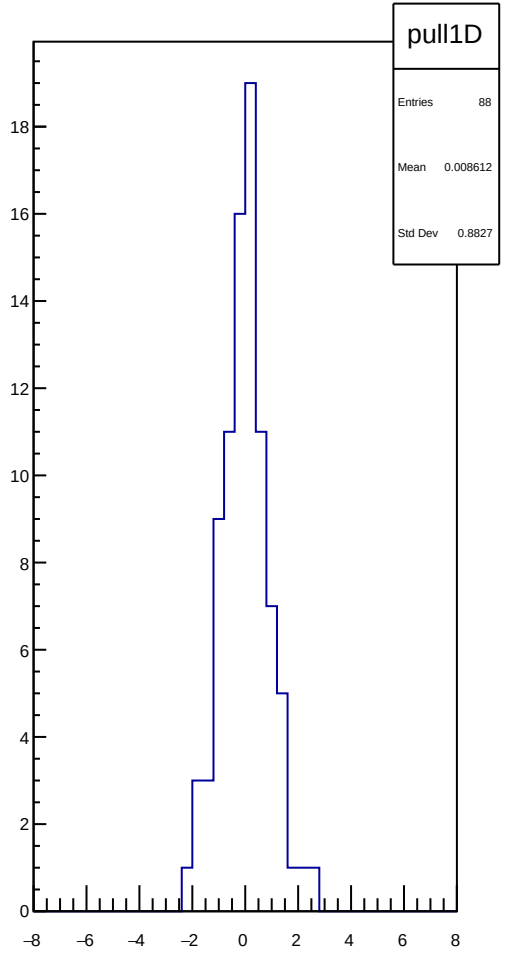

reg_asym_atl_dd_rms vs run
χ² / ndf 186.4 / 87
p0 1729 ± 1.33
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

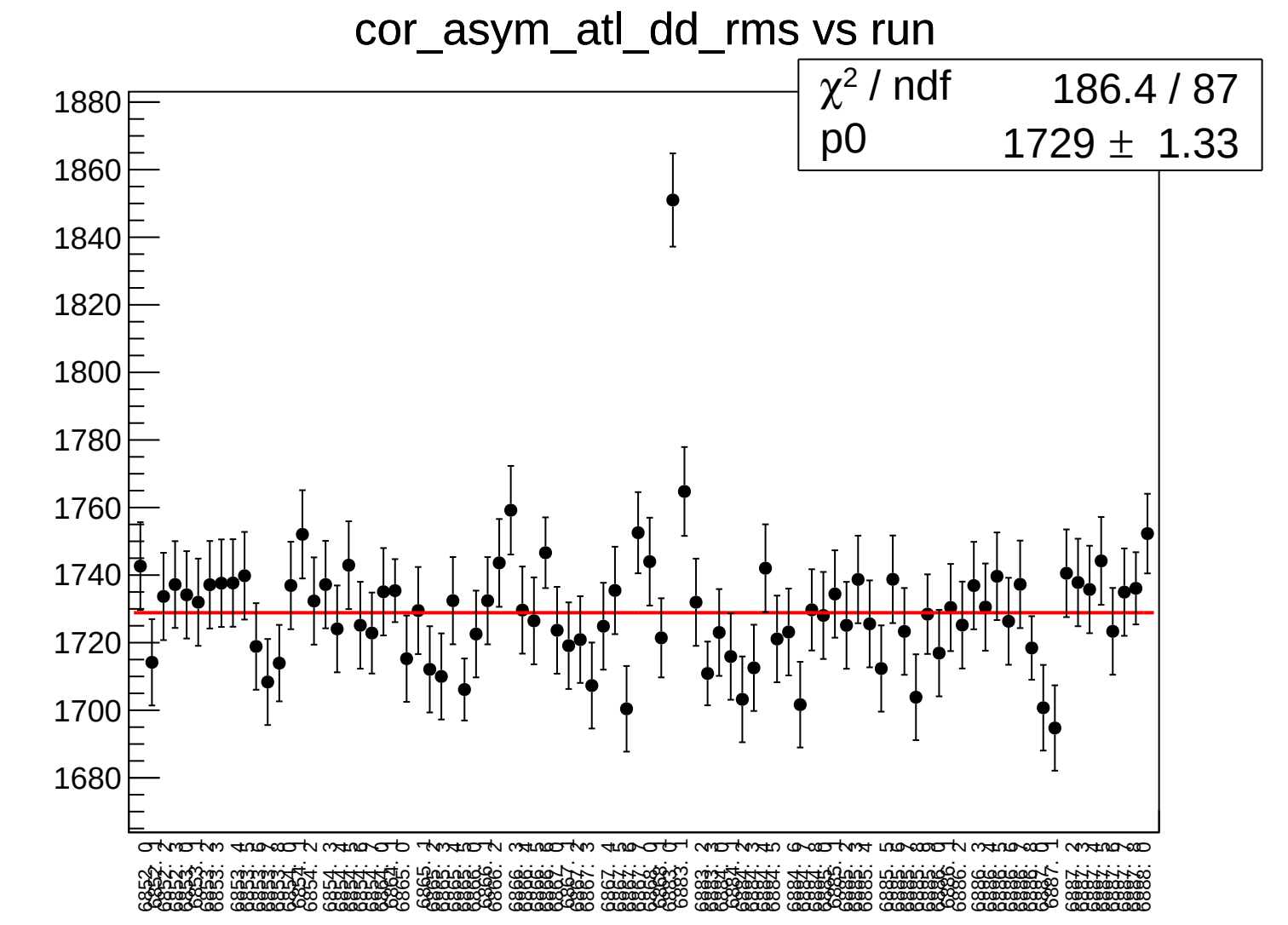

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 92.74 / 87
p0 5647 ± 4468
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 62.31
Std Dev 0
2
1
0
−1
−2
−3

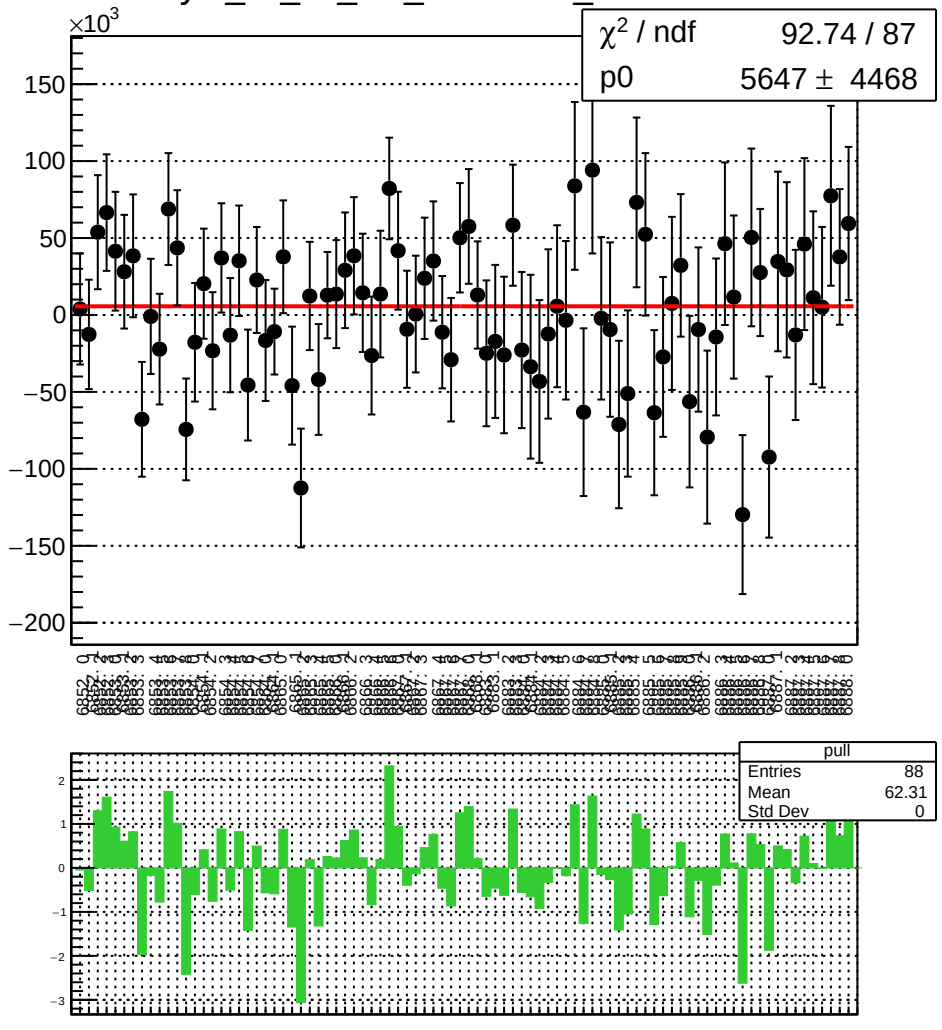

pull1D
Entries 88
Mean −0.0207
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

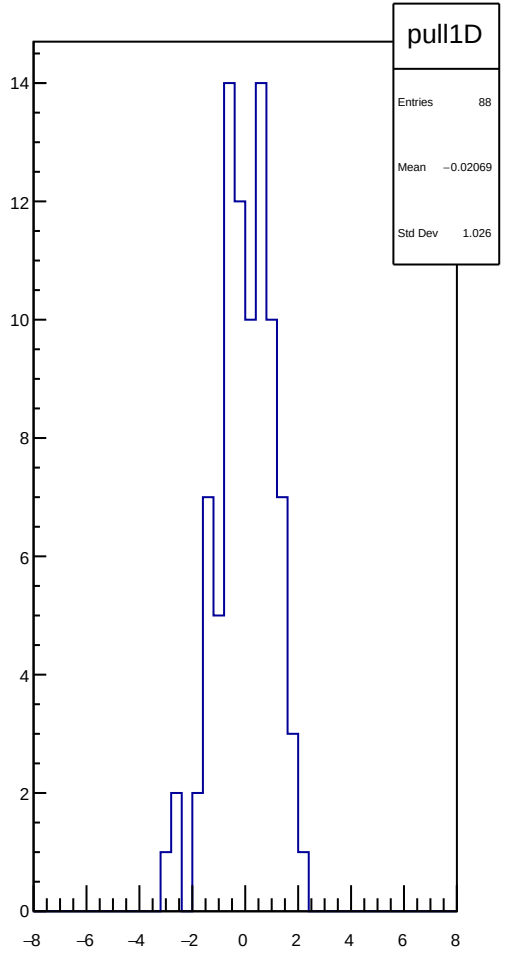

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 5.36e+04 / 87
p0 4043 ± 3.159
5500
5000
4500
4000
3500

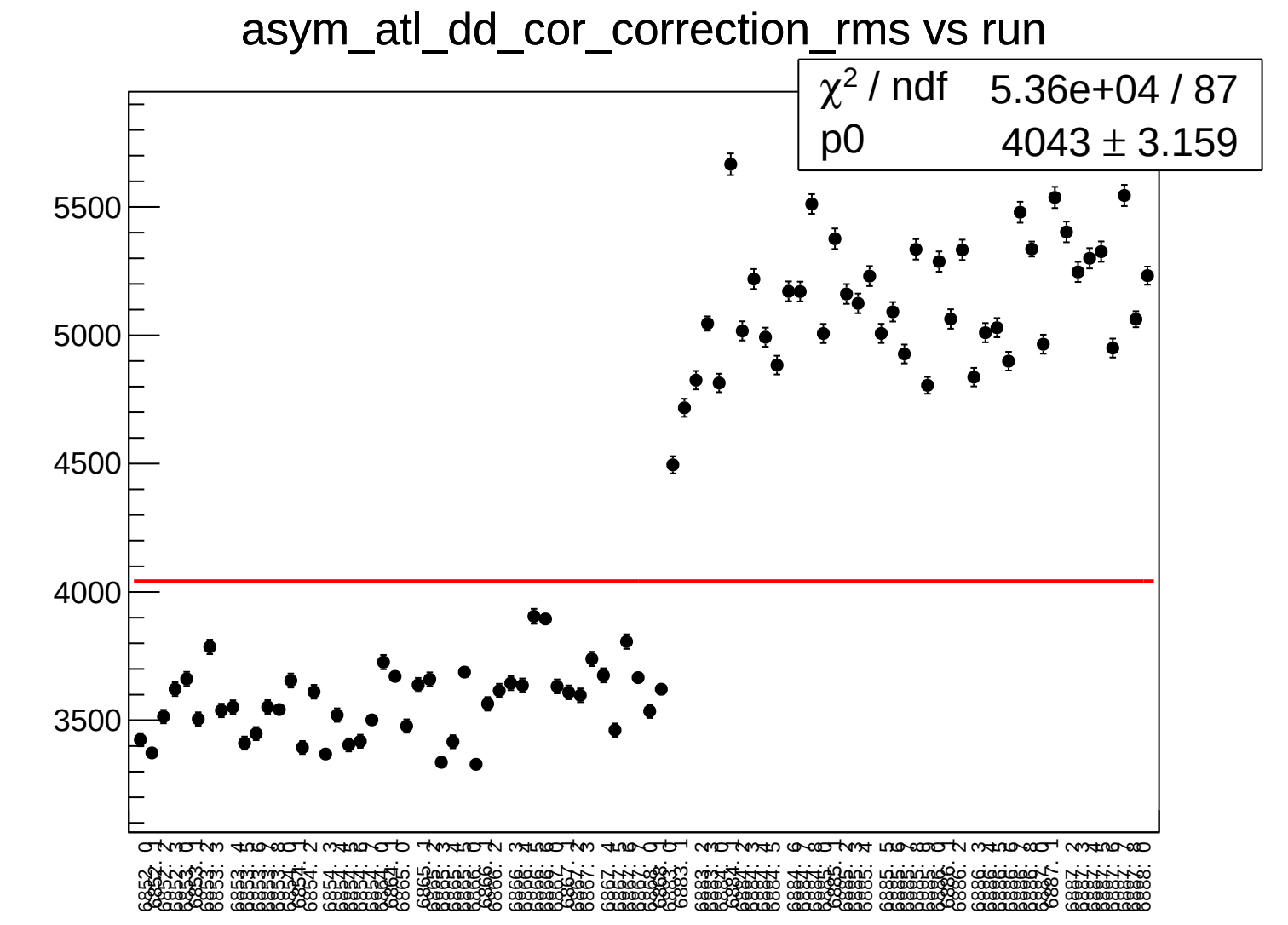

cor_asym_atl_dd_mean vs run
χ² / ndf 68.58 / 87
p0 1794 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −499.1
Std Dev 0
2
1
0
−1
−2

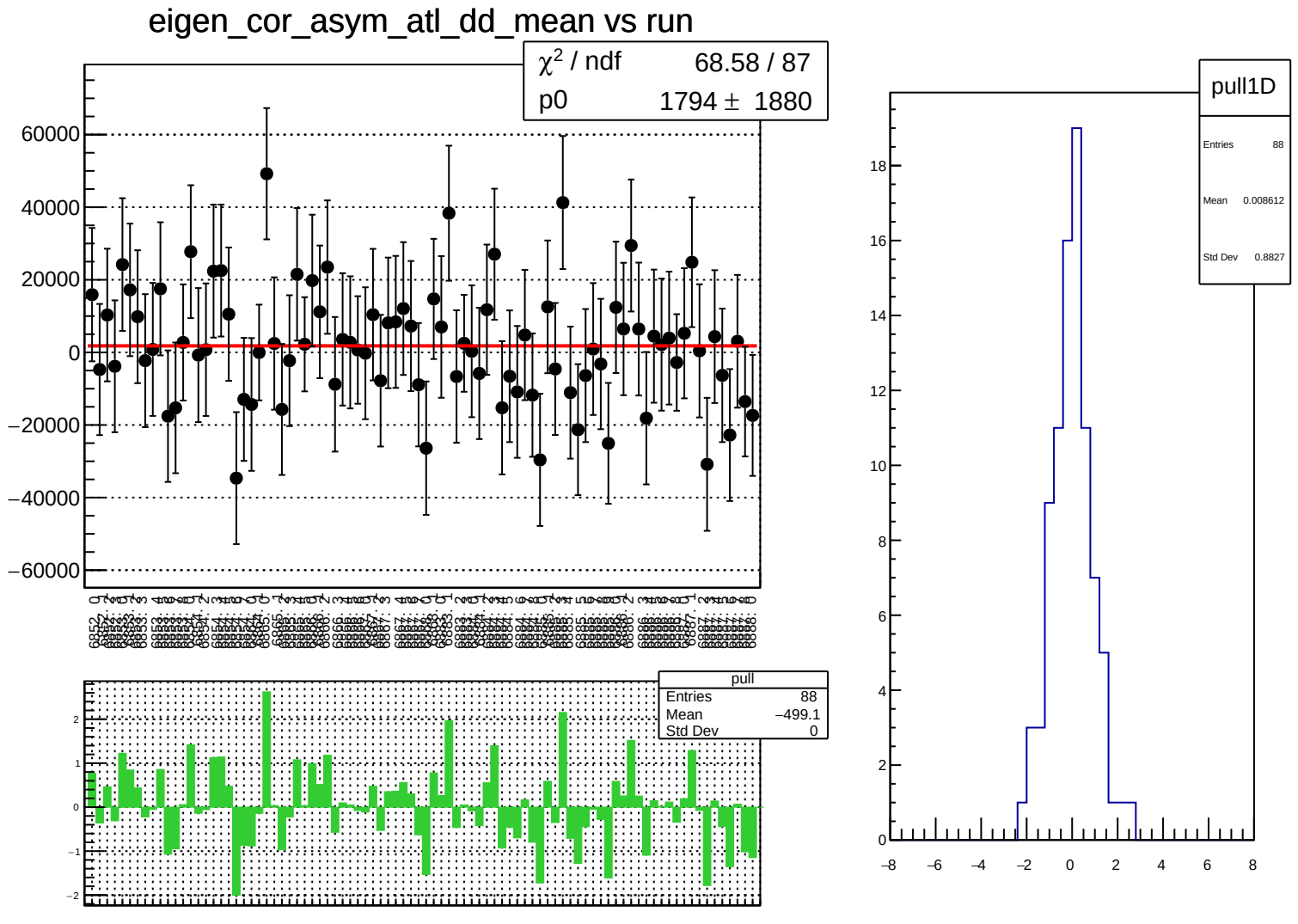

pull1D
Entries 88
Mean 0.008612
Std Dev 0.8827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

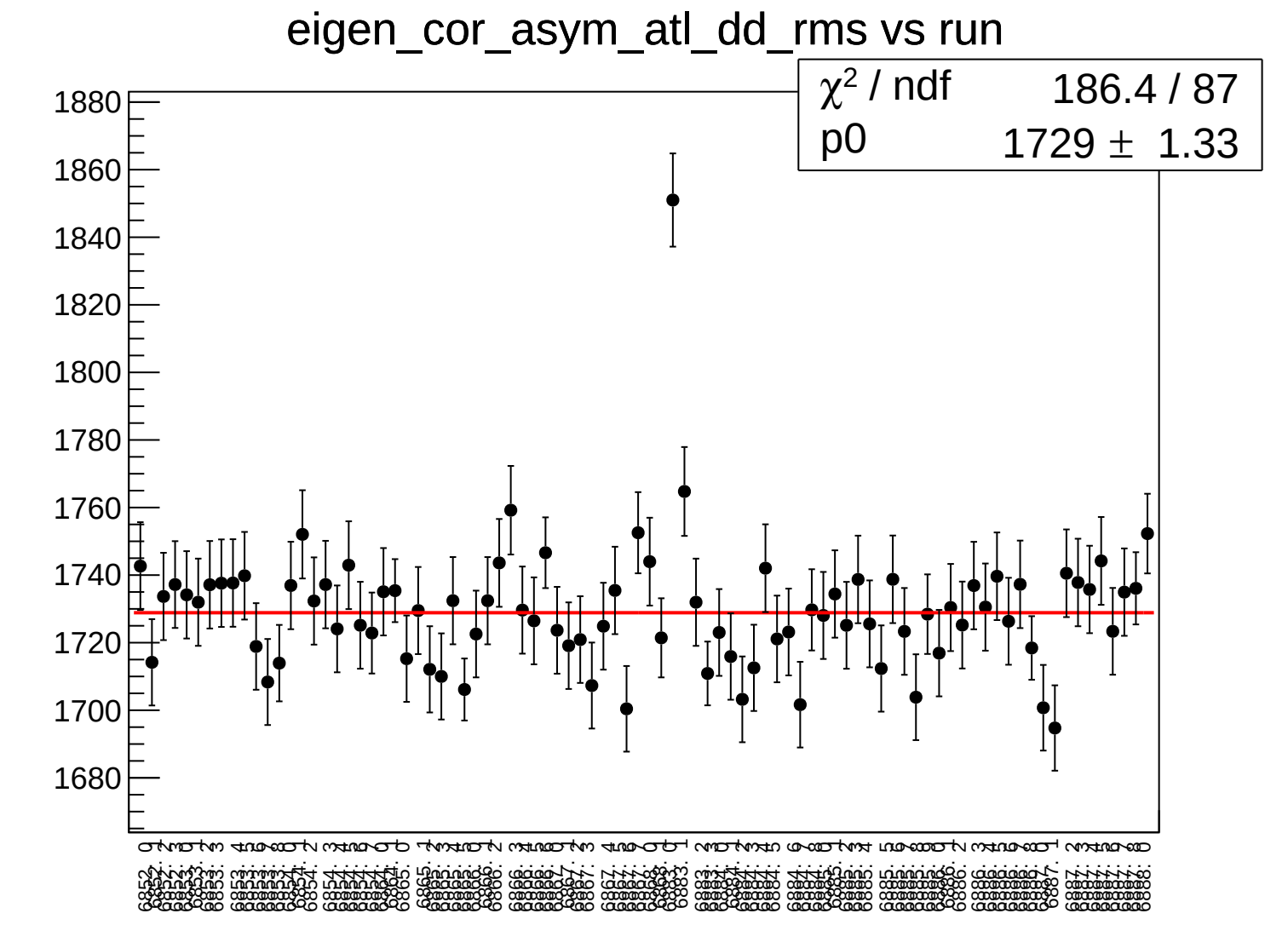

cor_asym_atl_dd_rms vs run
χ² / ndf 186.4 / 87
p0 1729 ± 1.33
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

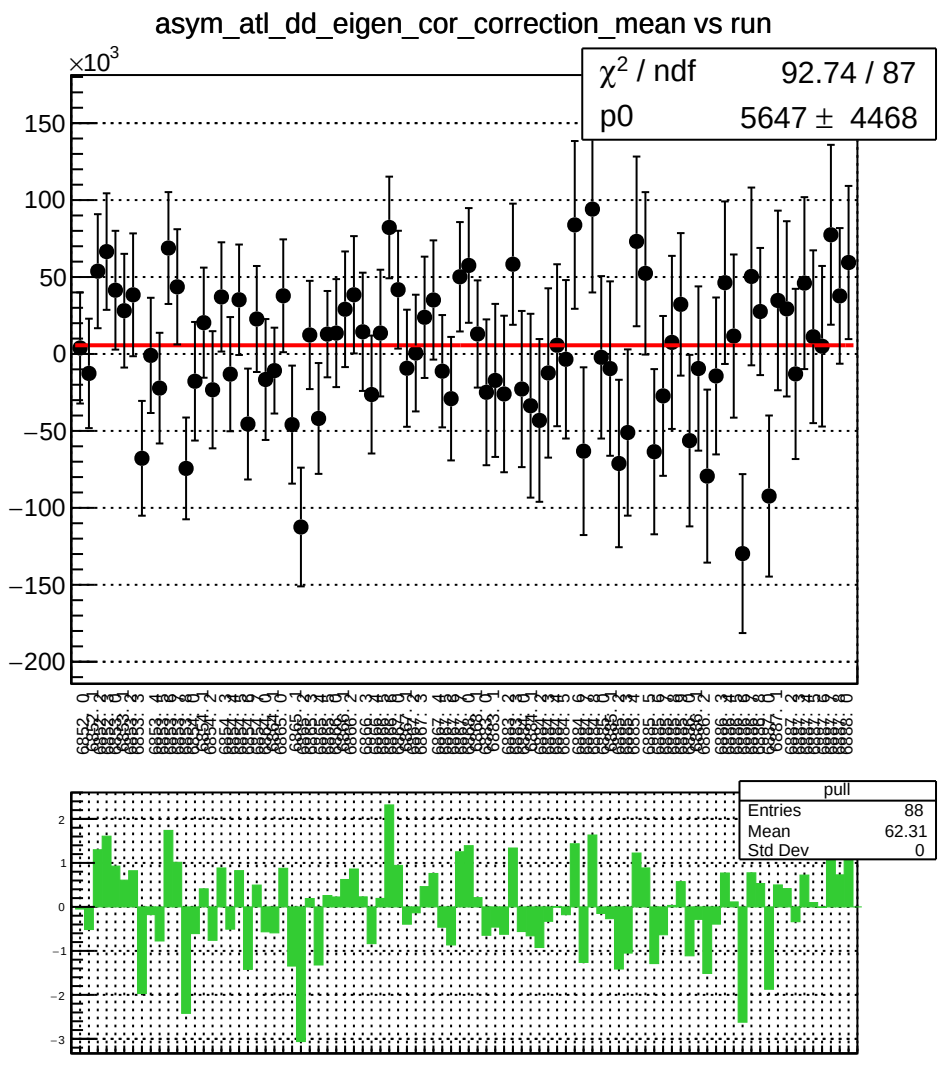

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 92.74 / 87
p0 5647 ± 4468
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 62.31
Std Dev 0
2
1
0
−1
−2
−3

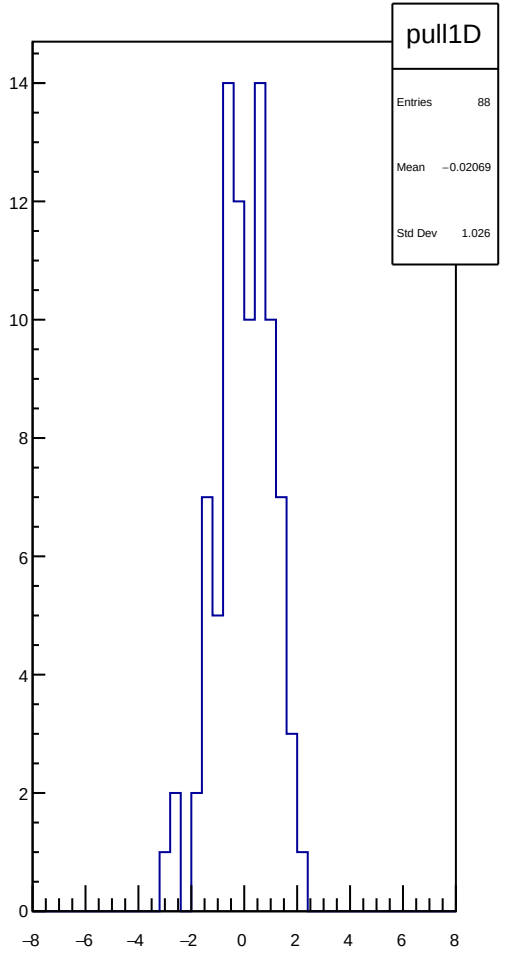

pull1D
Entries 88
Mean −0.02069
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

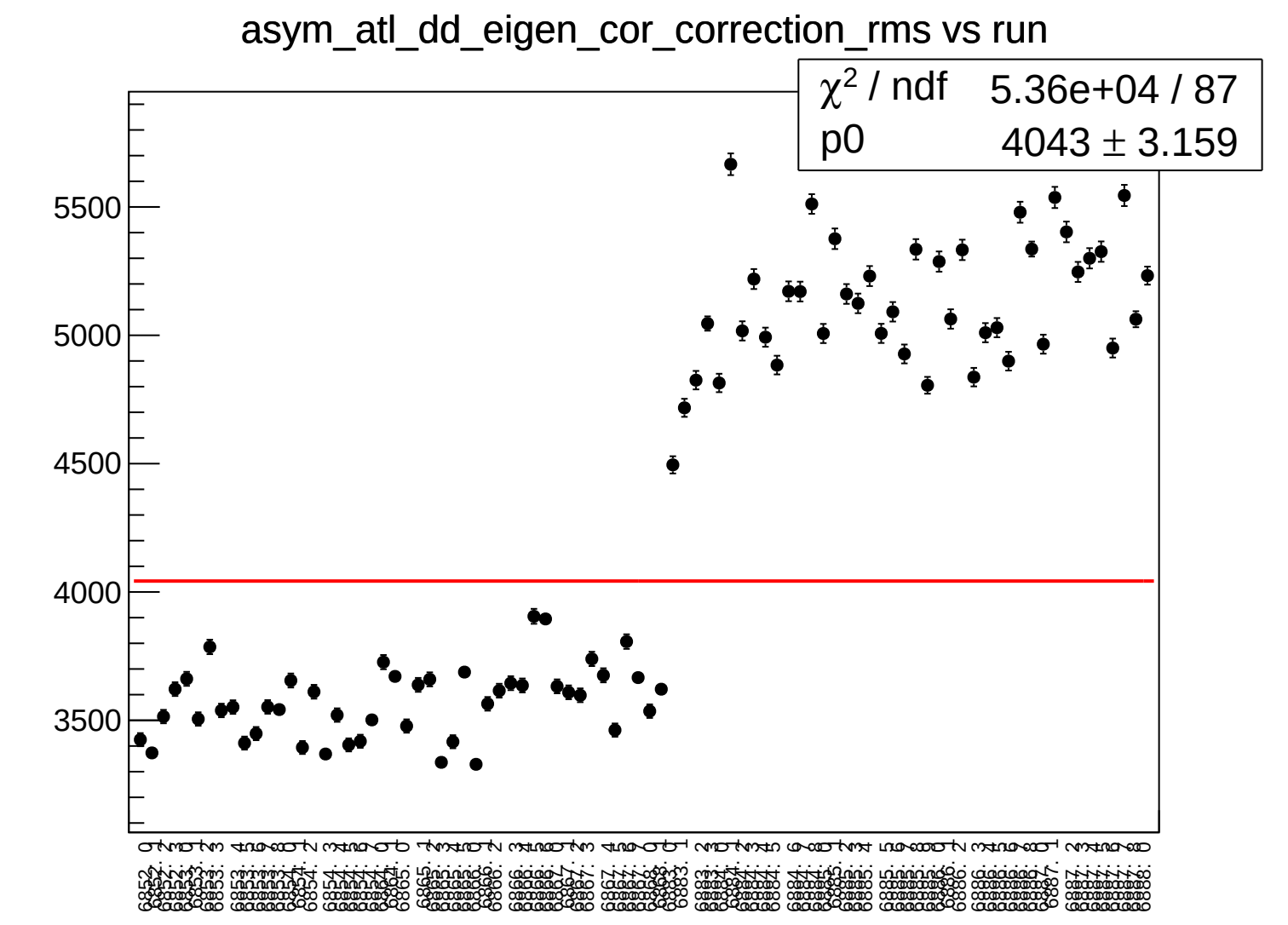

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 5.36e+04 / 87
p0 4043 ± 3.159
5500
5000
4500
4000
3500

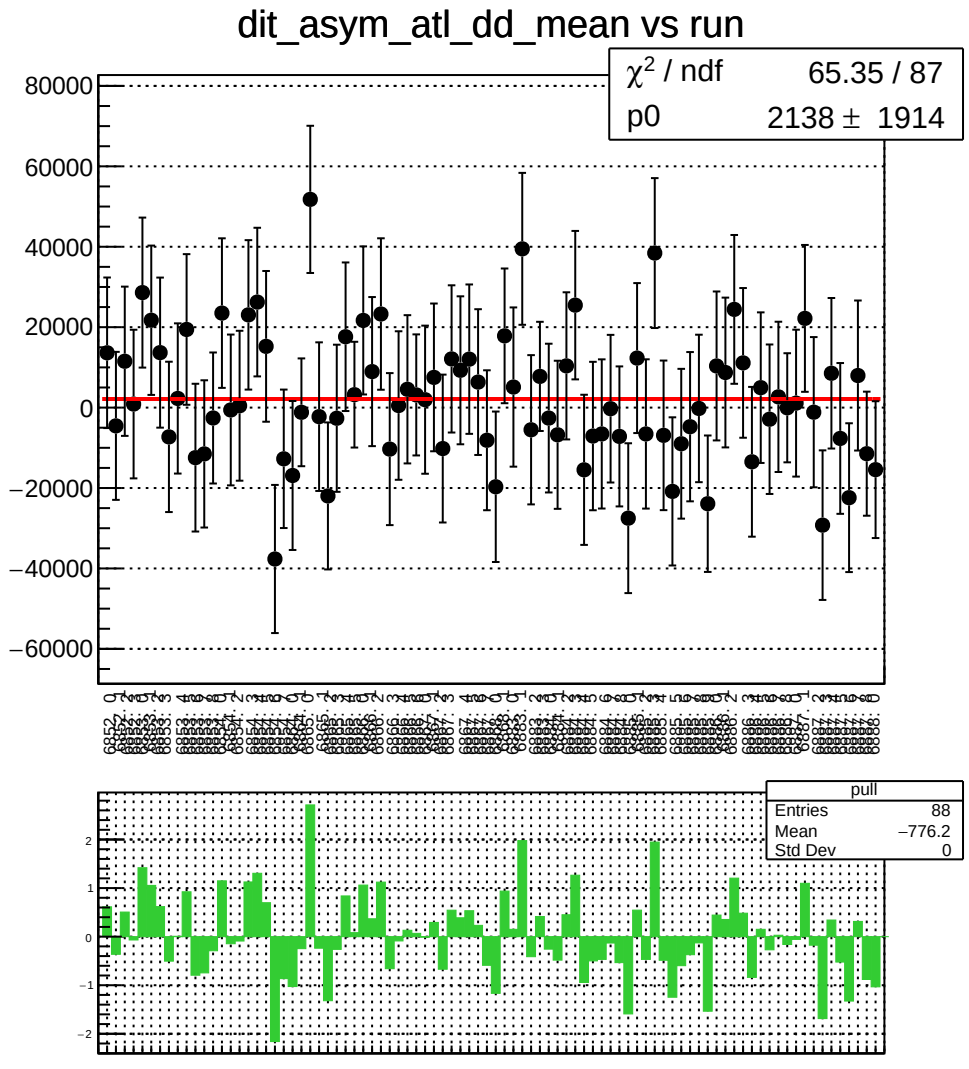

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 68.58 / 87
p0 1794 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −499.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.008612
Std Dev 0.8827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

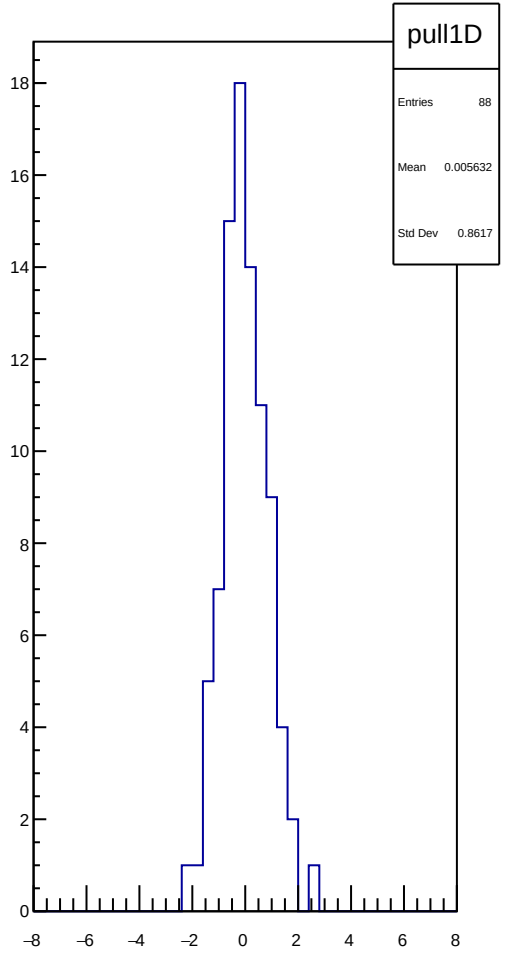

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 186.4 / 87
p0 1729 ± 1.33
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

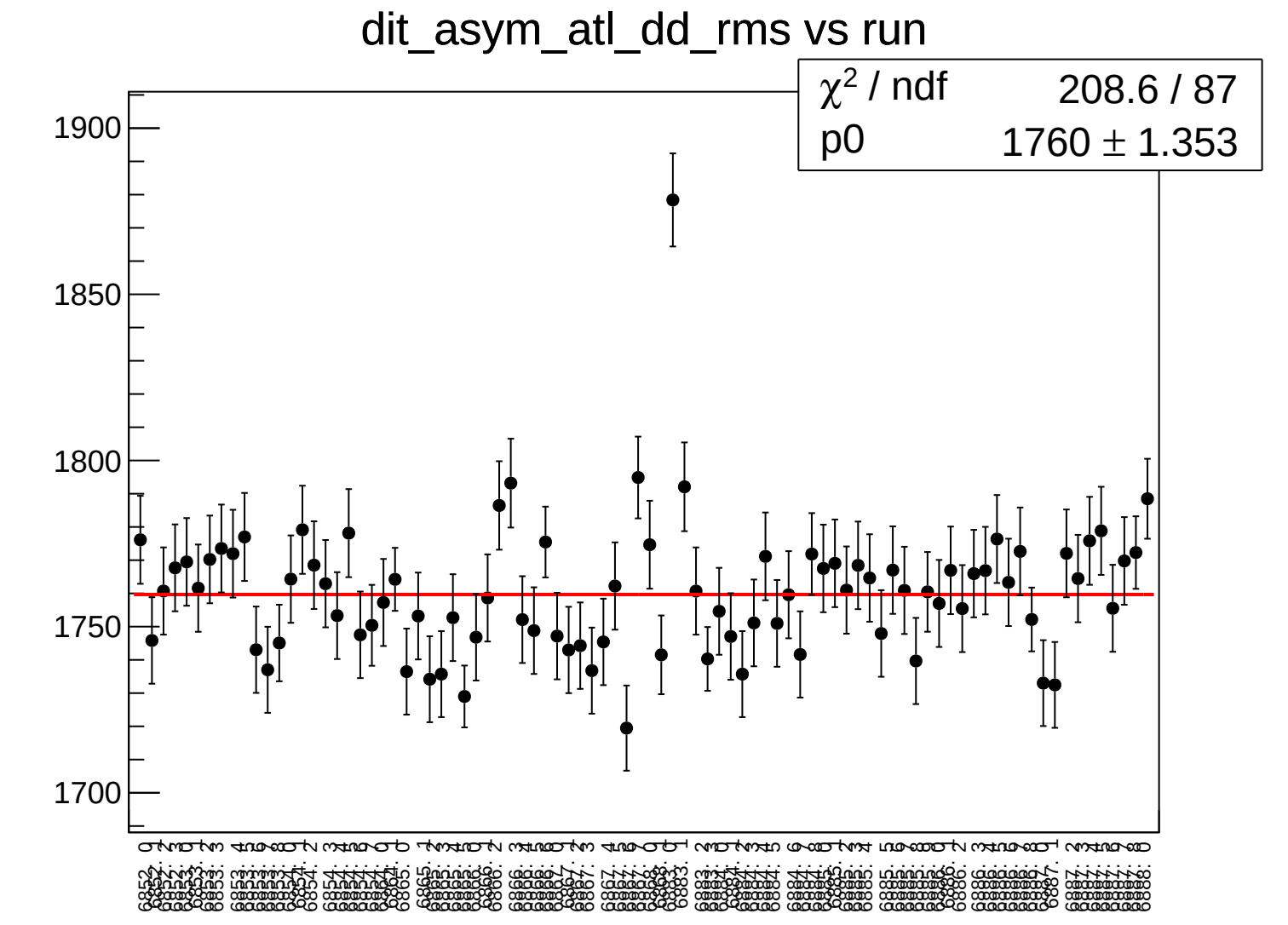

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.74 / 87
p0 5647 ± 4468
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 62.31
Std Dev 0
2
1
0
−1
−2
−3

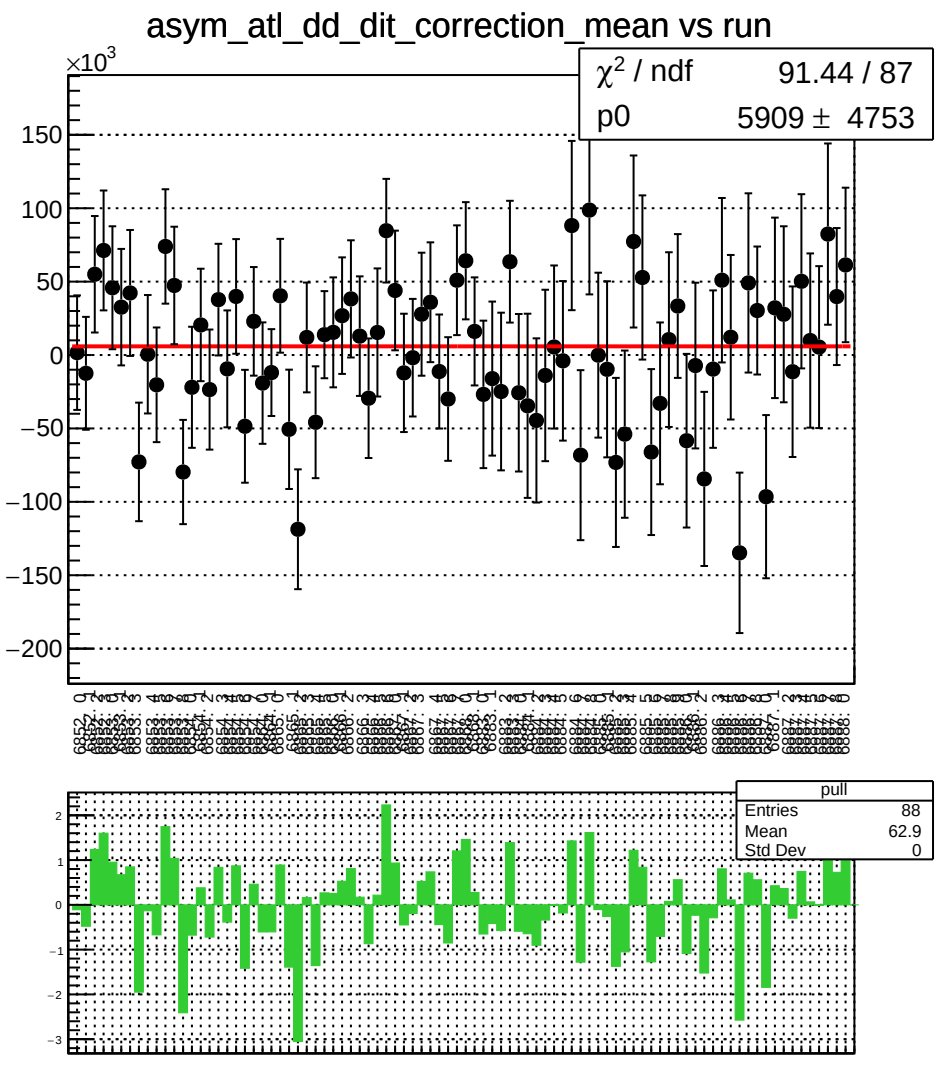

pull1D
Entries 88
Mean −0.02069
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

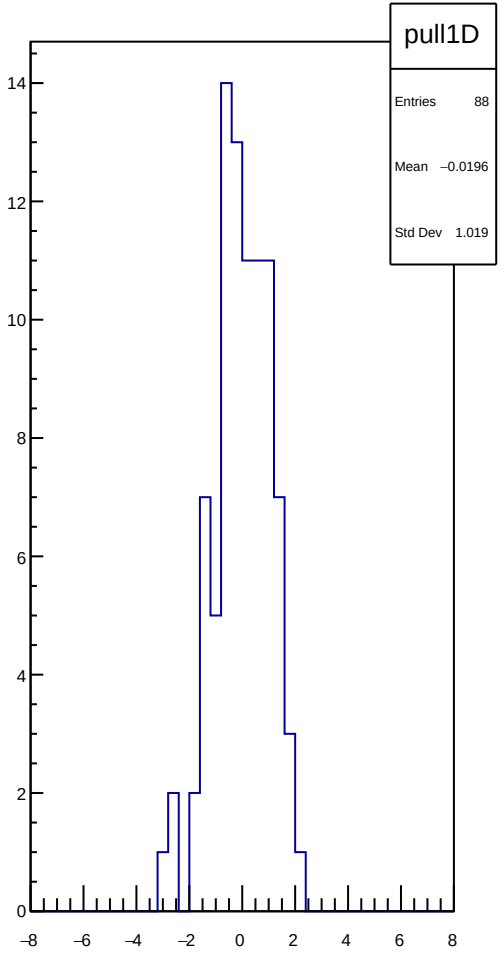

asym_atl_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 5.36e+04 / 87
p0 4043 ± 3.159
5500
5000
4500
4000
3500

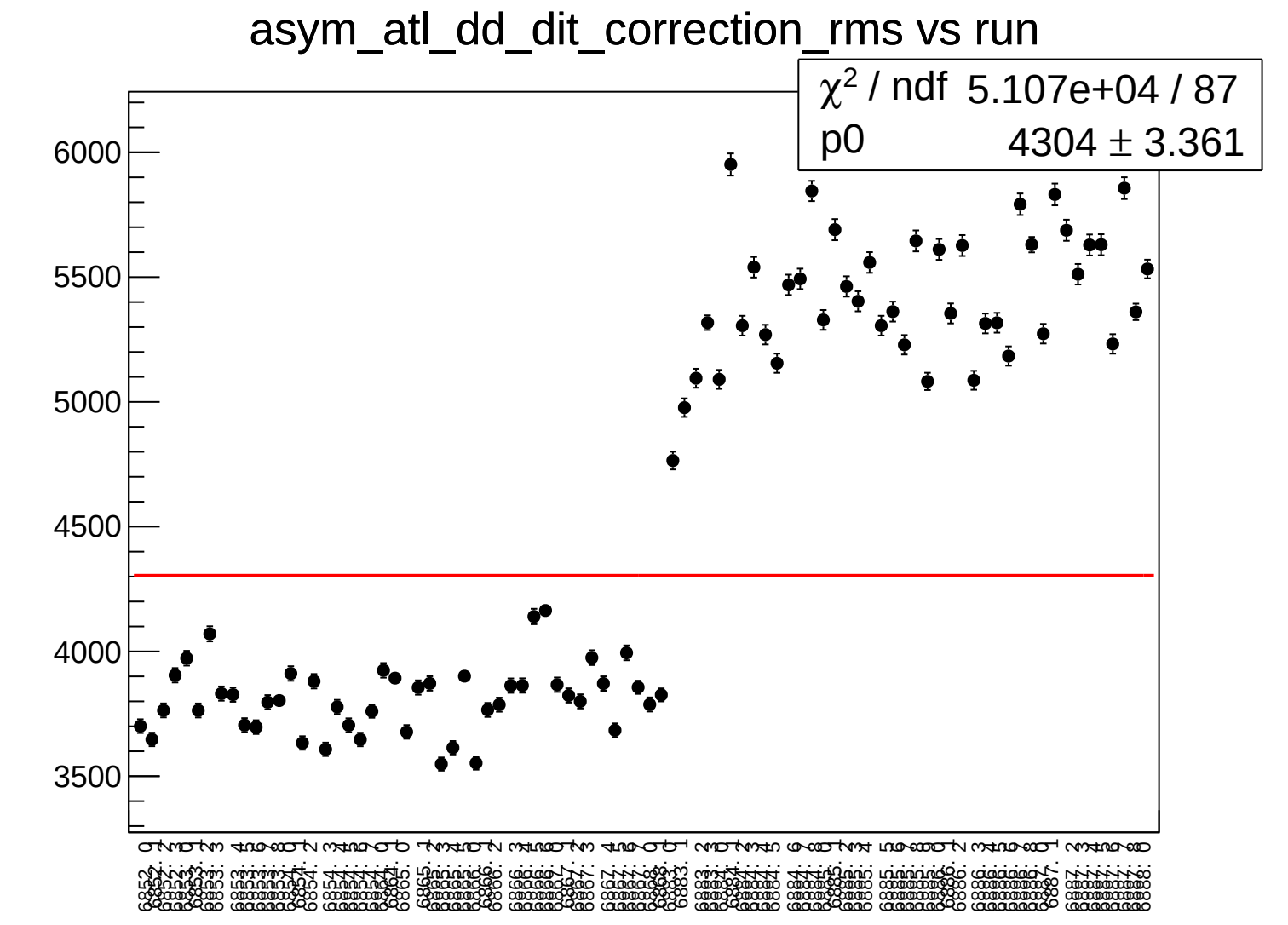

dit_asym_atl_dd_mean vs run
χ² / ndf 65.35 / 87
p0 2138 ± 1914
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −776.2
Std Dev 0
2
1
0
−1
−2

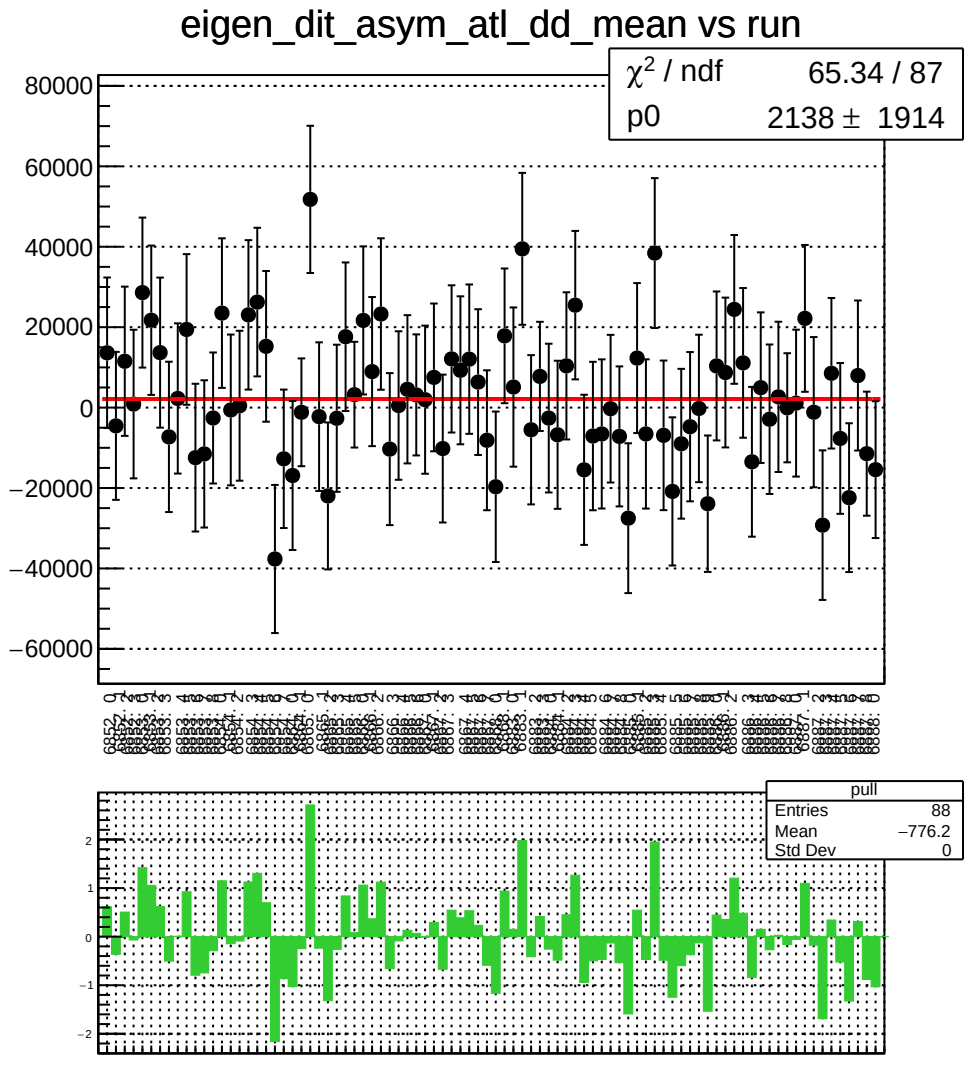

pull1D
Entries 88
Mean 0.005632
Std Dev 0.8617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

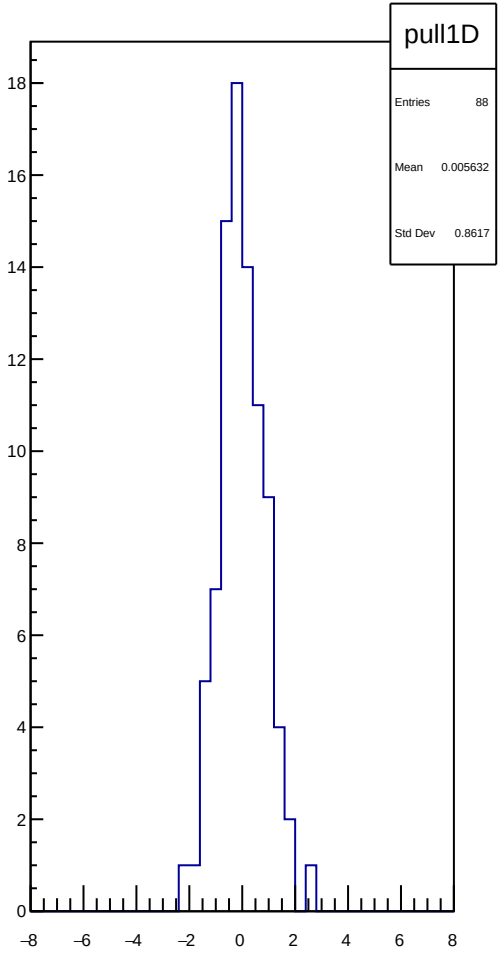

dit_asym_atl_dd_rms vs run
χ² / ndf 208.6 / 87
p0 1760 ± 1.353
1900
1850
1800
1750
1700

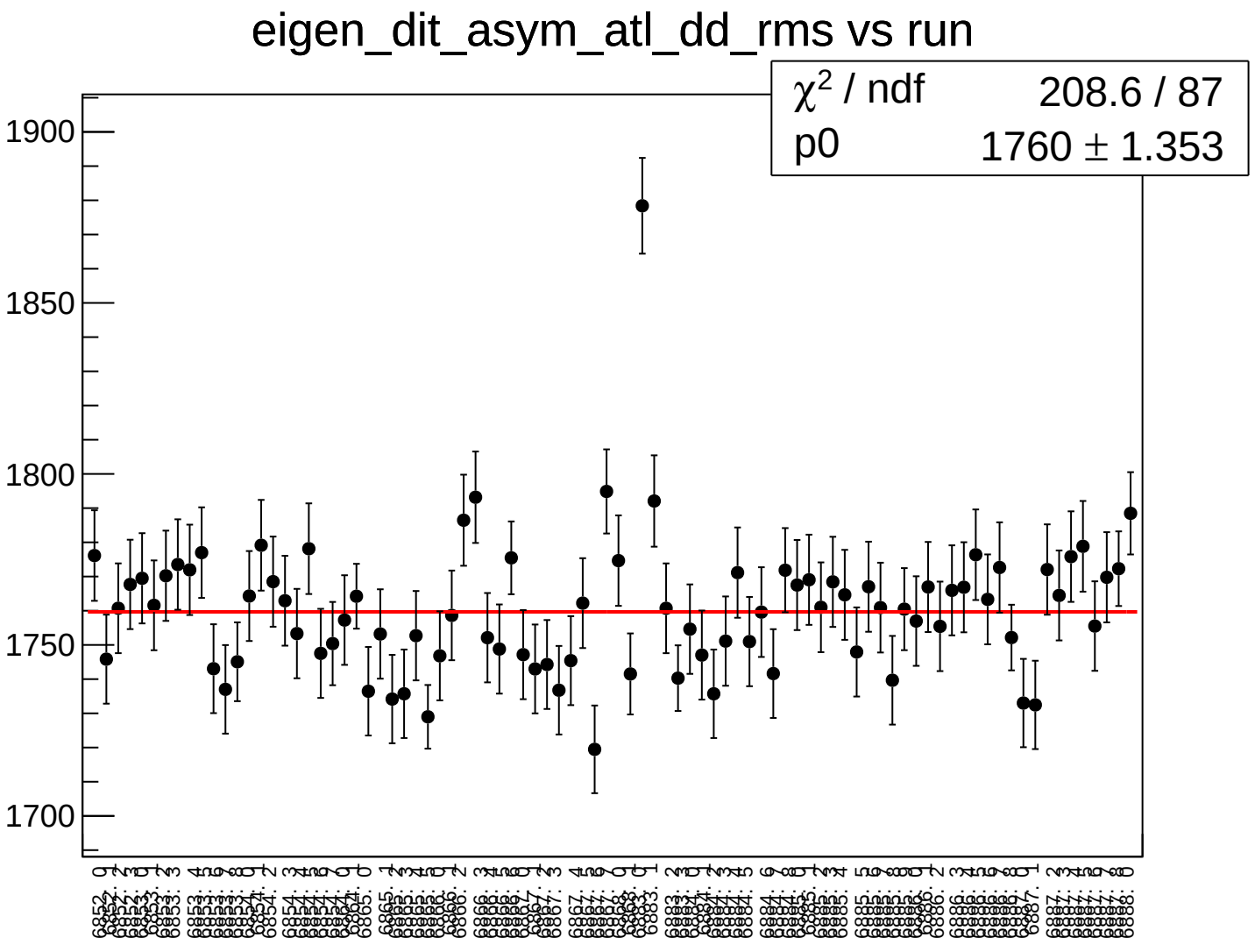

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 91.44 / 87
p0 5909 ± 4753
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 62.9
Std Dev 0
2
1
0
−1
−2
−3

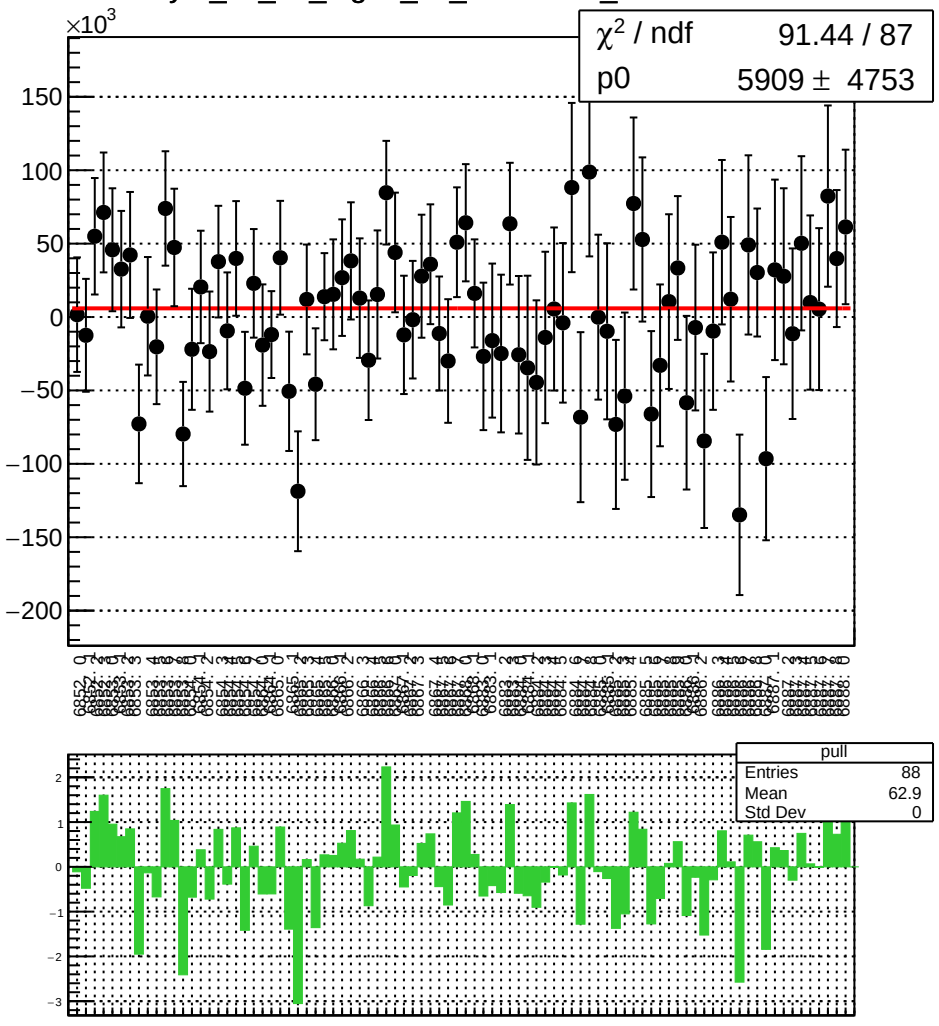

pull1D
Entries 88
Mean −0.0196
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

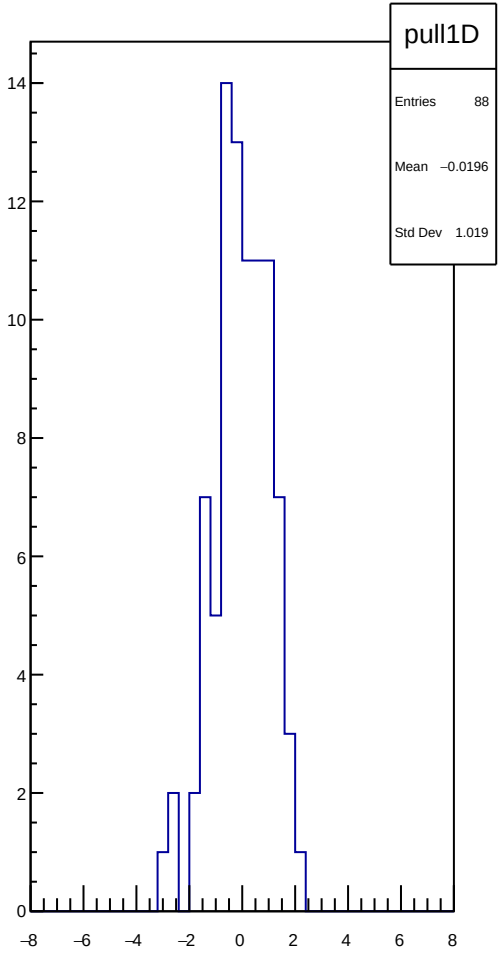

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 5.107e+04 / 87
p0 4304 ± 3.361
6000
5500
5000
4500
4000
3500

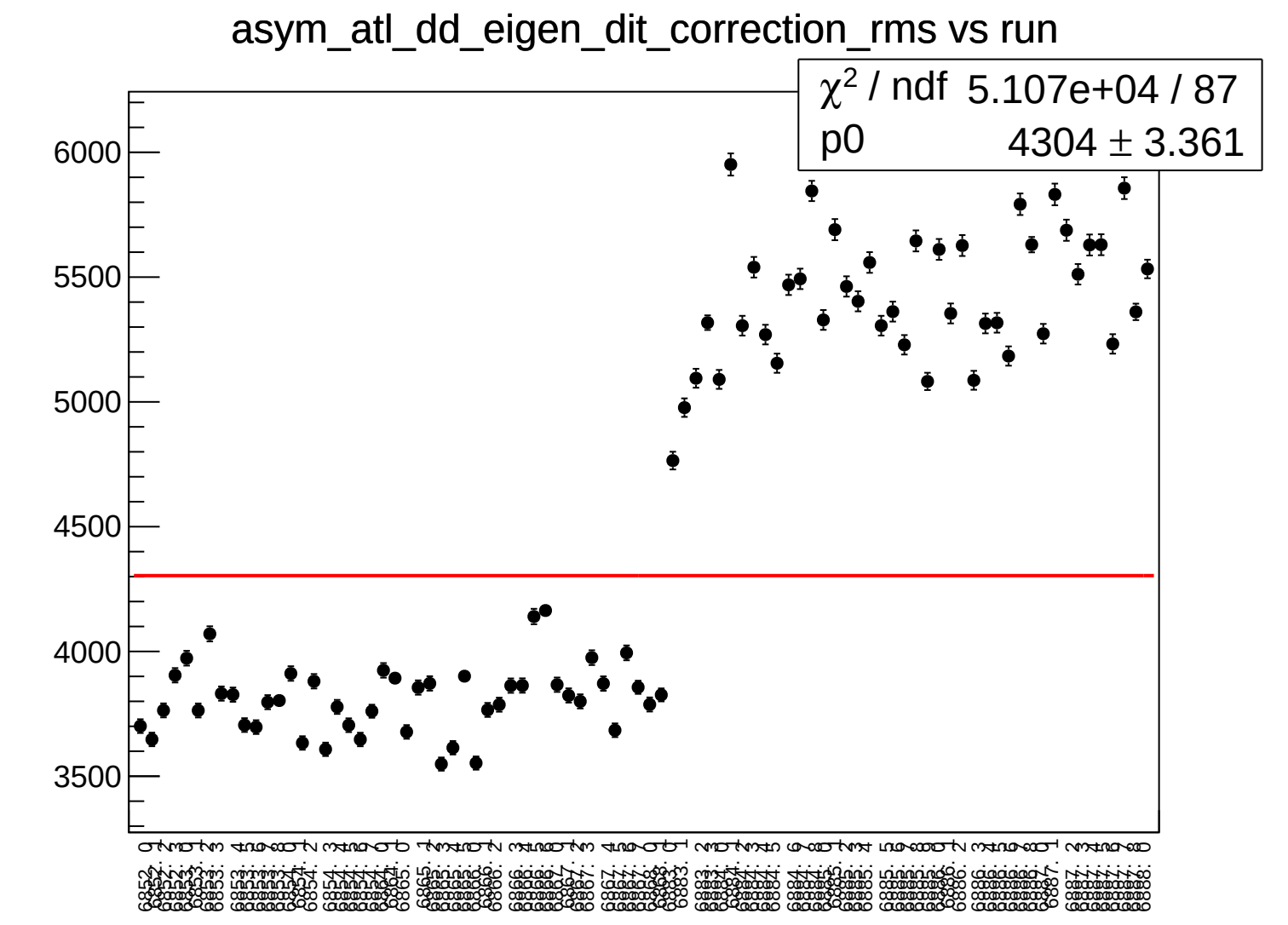

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 65.34 / 87
p0 2138 ± 1914
pull
Entries 88
Mean −776.2
Std Dev 0

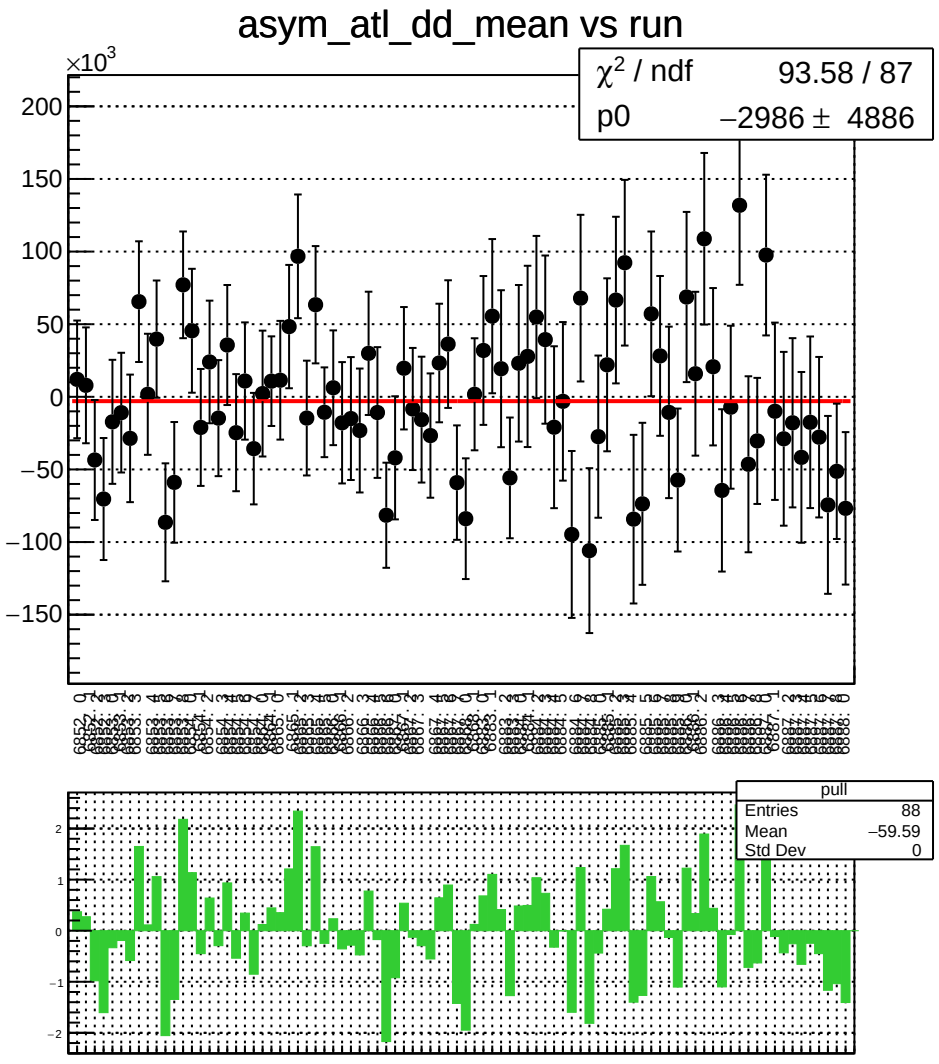

pull1D
Entries 88
Mean 0.005632
Std Dev 0.8617

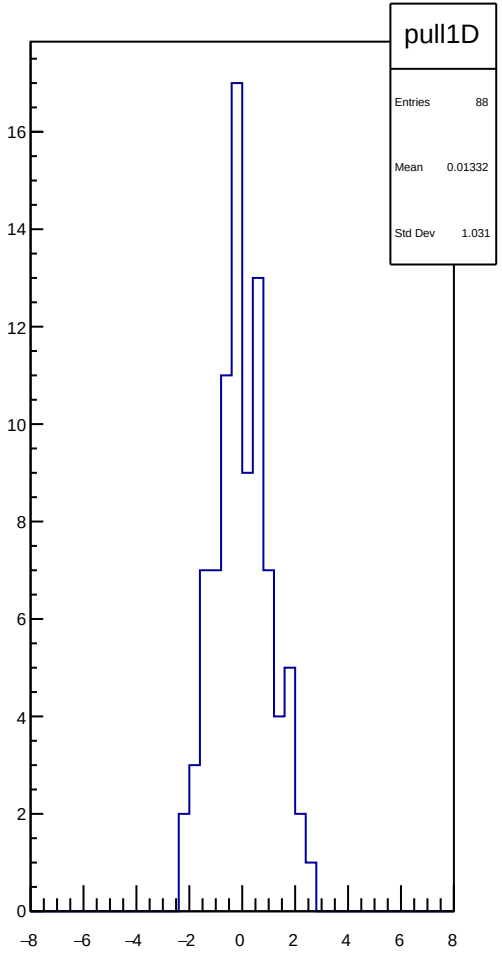

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 208.6 / 87
p0 1760 ± 1.353
1900
1850
1800
1750
1700

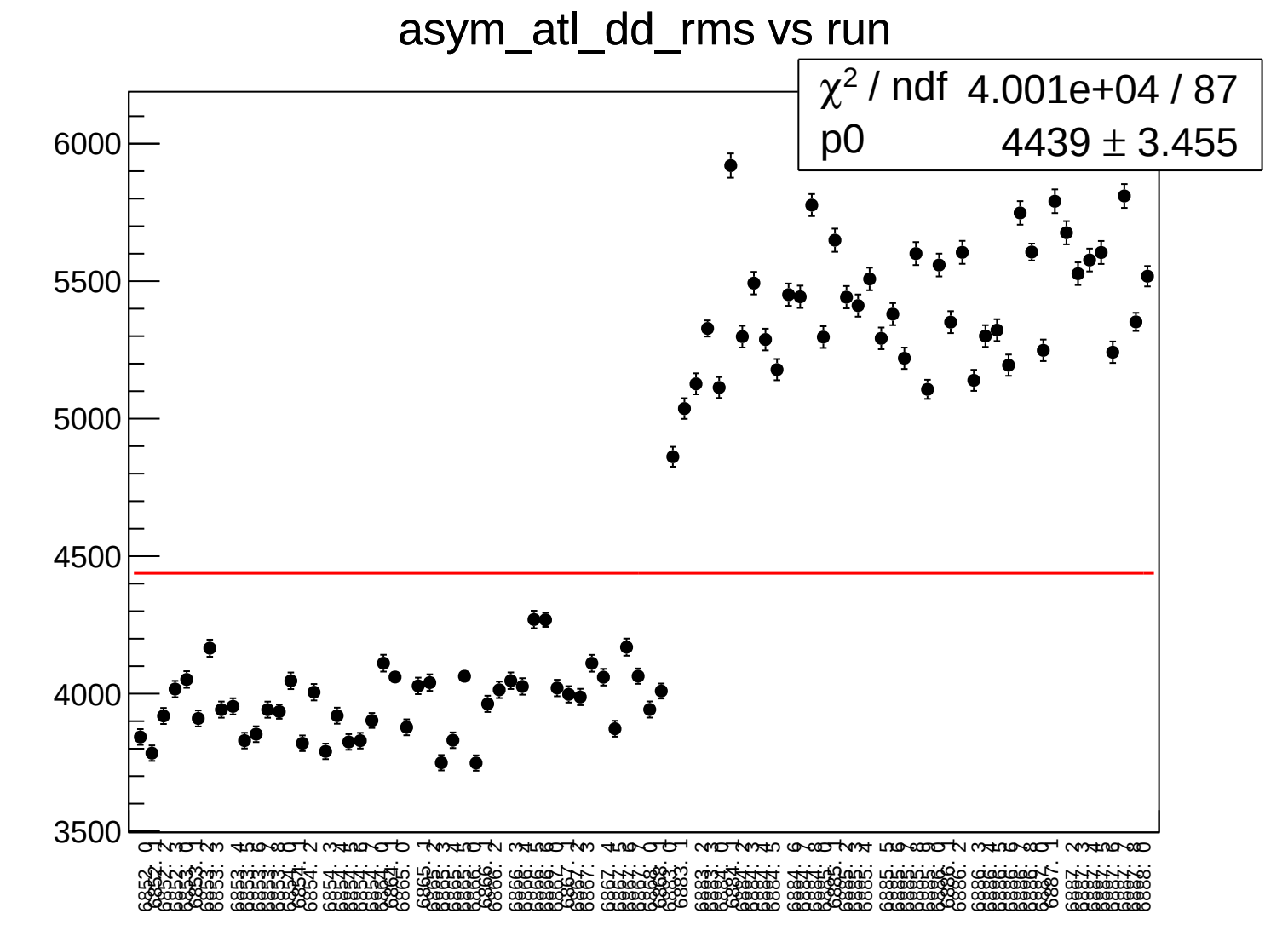

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.44 / 87
p0 5909 ± 4753
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 62.9
Std Dev 0
2
1
0
−1
−2
−3

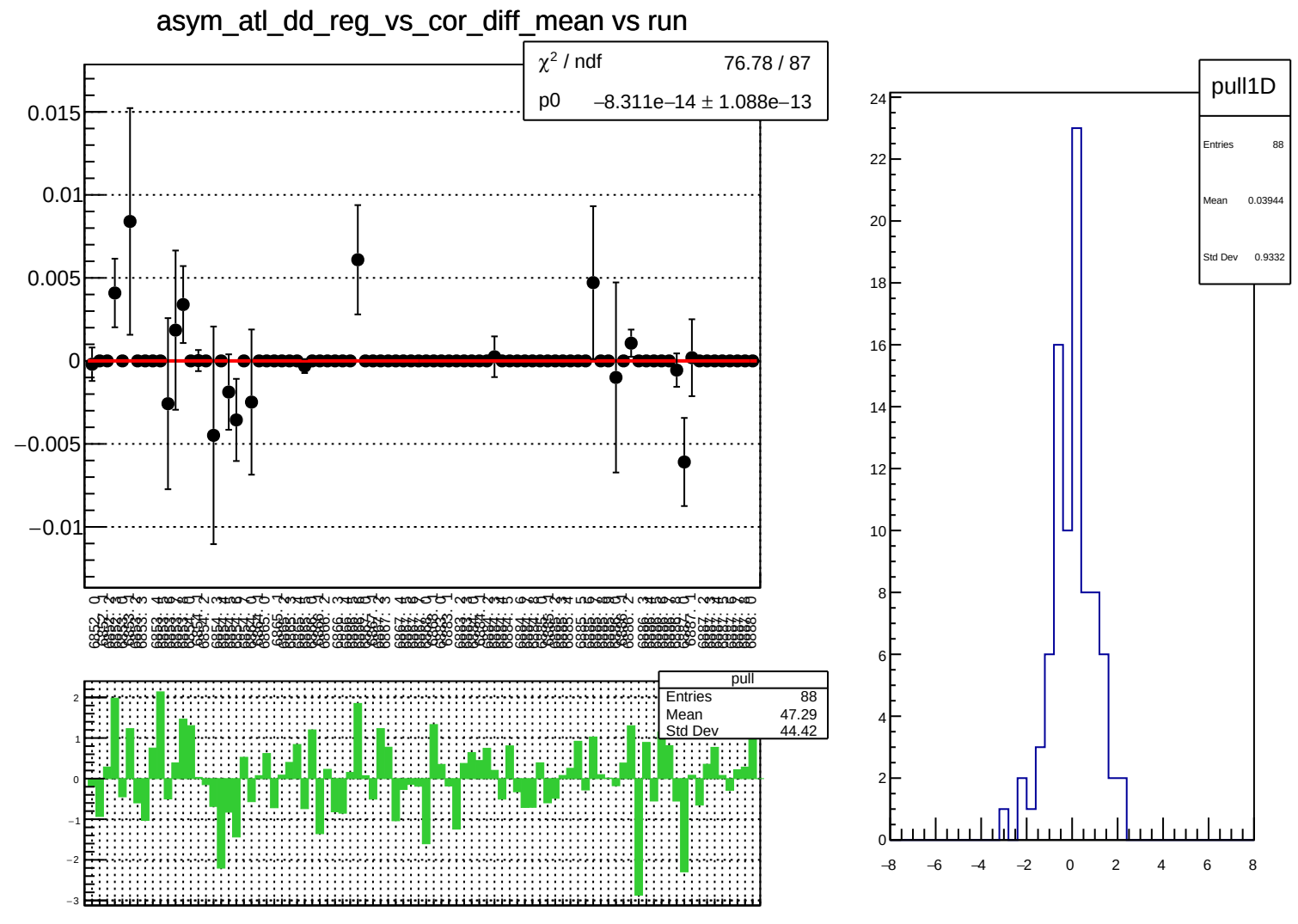

pull1D
Entries 88
Mean −0.0196
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

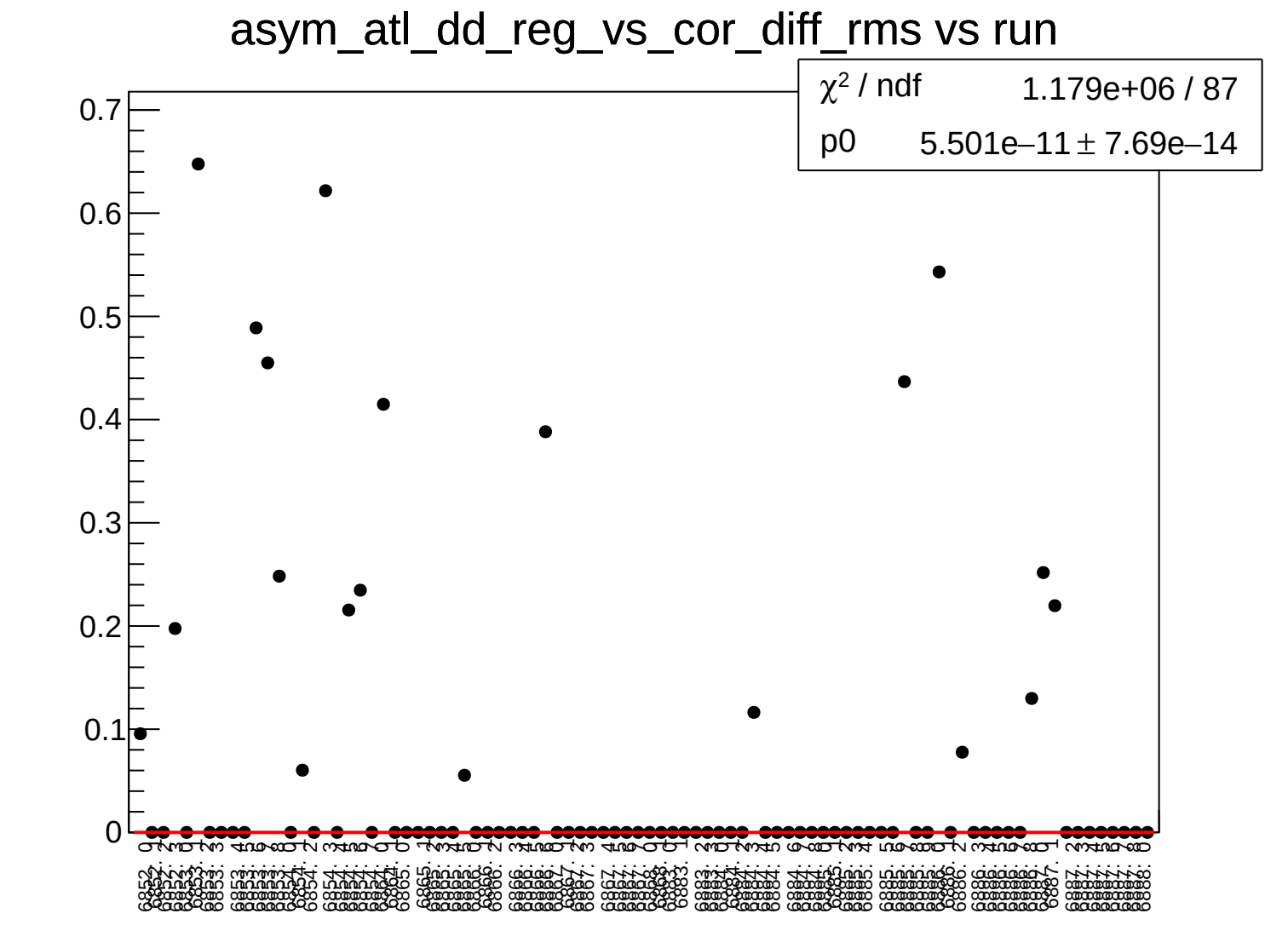

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.107e+04 / 87
p0 4304 ± 3.361
6000
5500
5000
4500
4000
3500

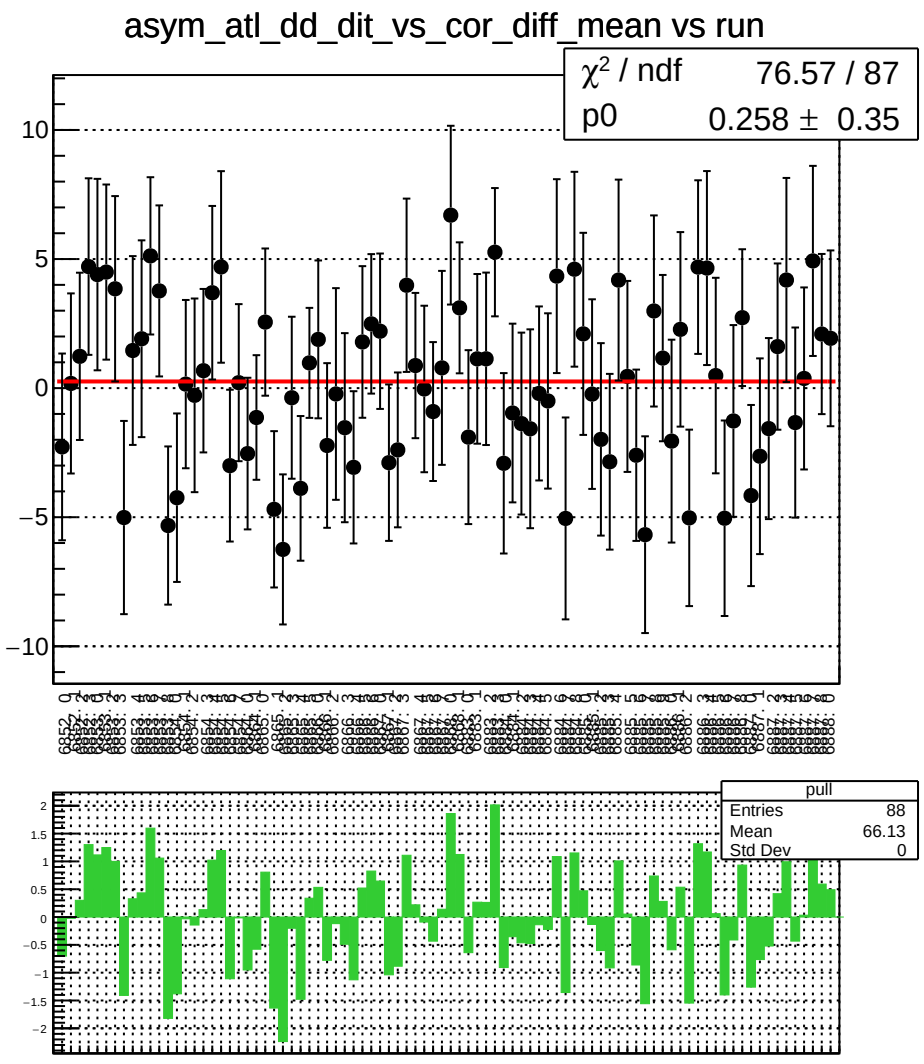

asym_atl_dd_mean vs run
×10^3
χ² / ndf 93.58 / 87
p0 −2986 ± 4886
pull
Entries 88
Mean −59.59
Std Dev 0

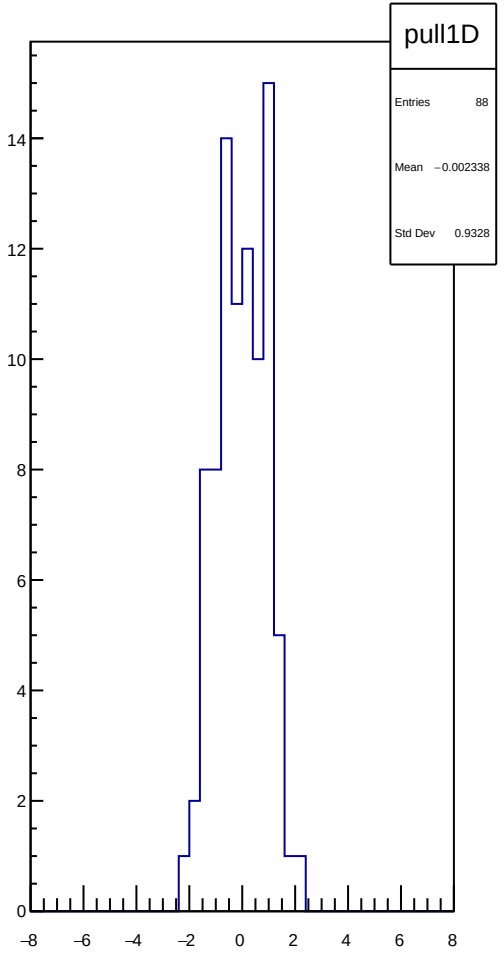

pull1D
Entries 88
Mean 0.01332
Std Dev 1.031

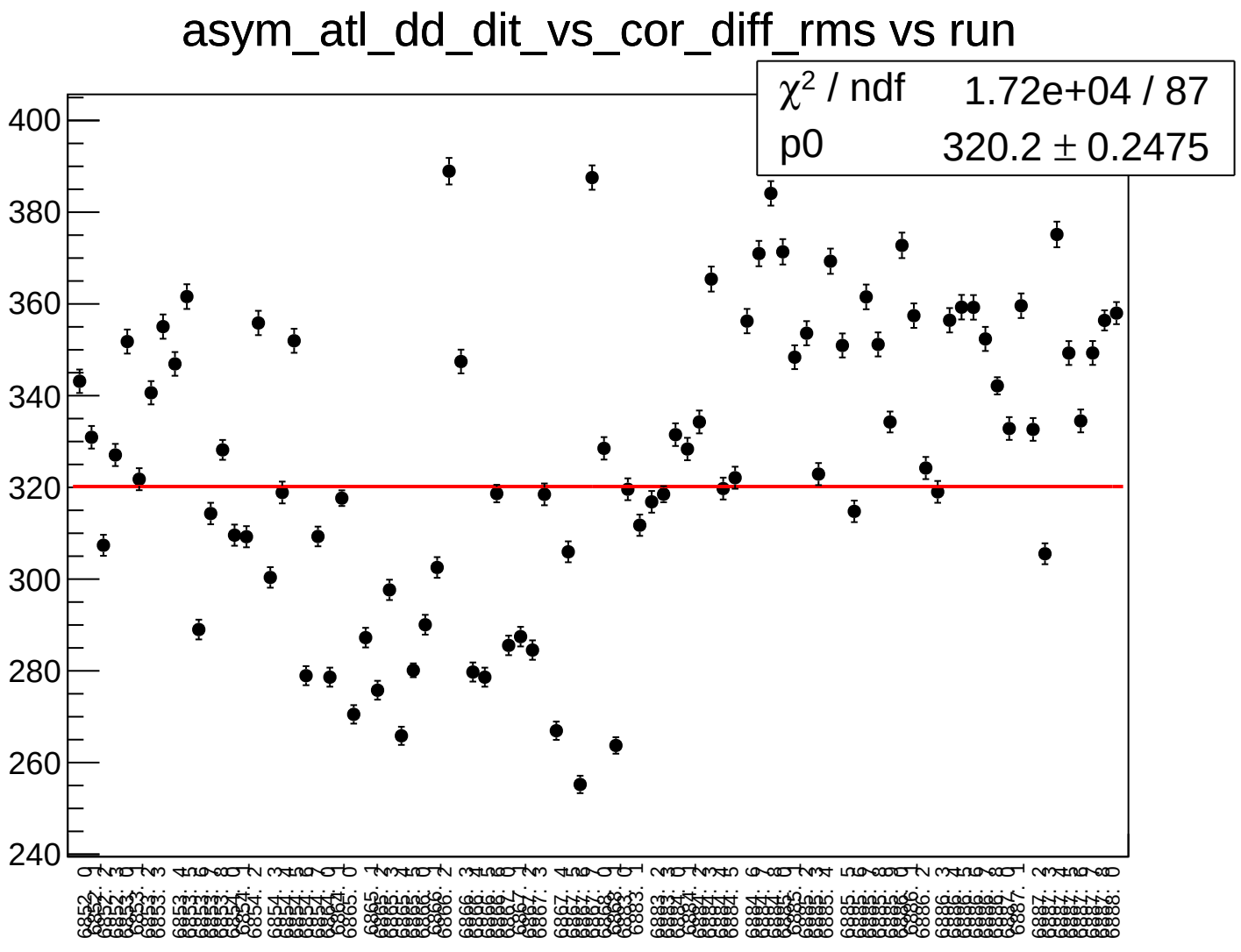

asym_atl_dd_rms vs run
χ^2 / ndf 4.001e+04 / 87
p0 4439 ± 3.455
6000
5500
5000
4500
4000
3500

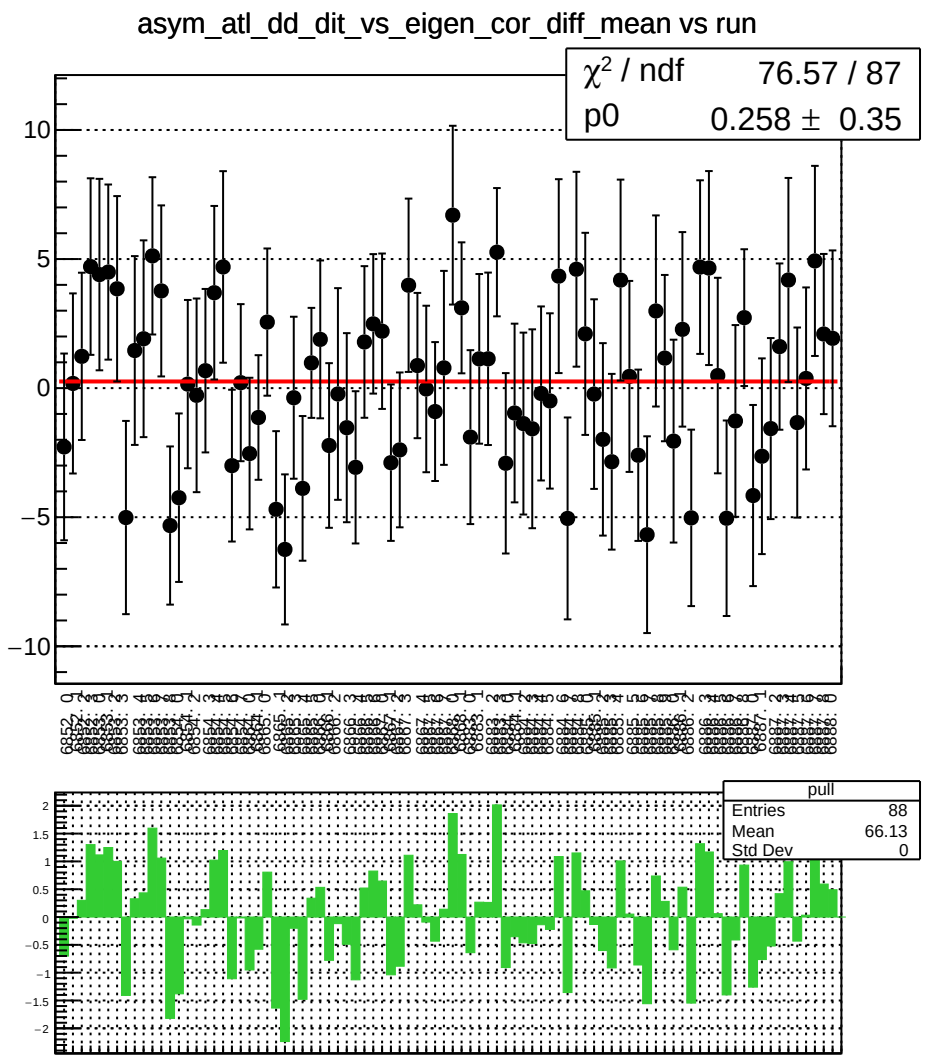

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.78 / 87
p0 −8.311e−14 ± 1.088e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 47.29
Std Dev 44.42
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.03944
Std Dev 0.9332
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

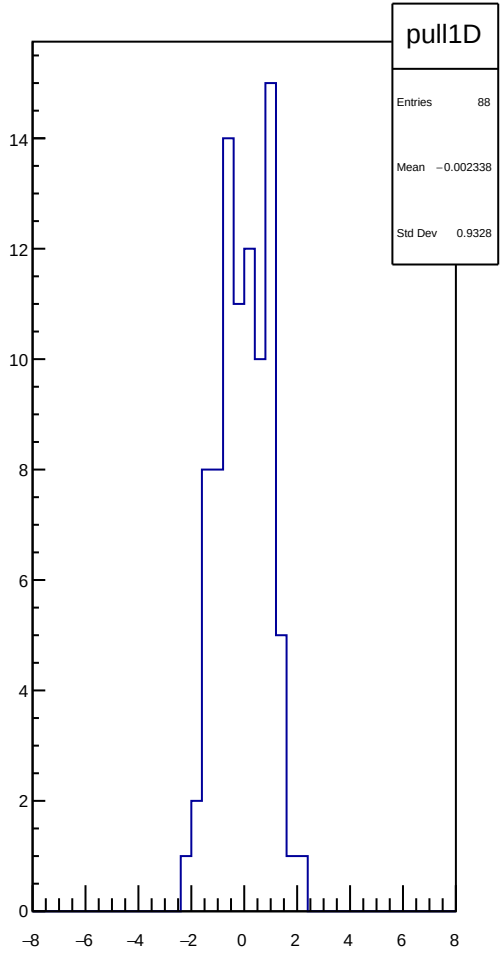

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.179e+06 / 87
p0 5.501e−11 ± 7.69e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

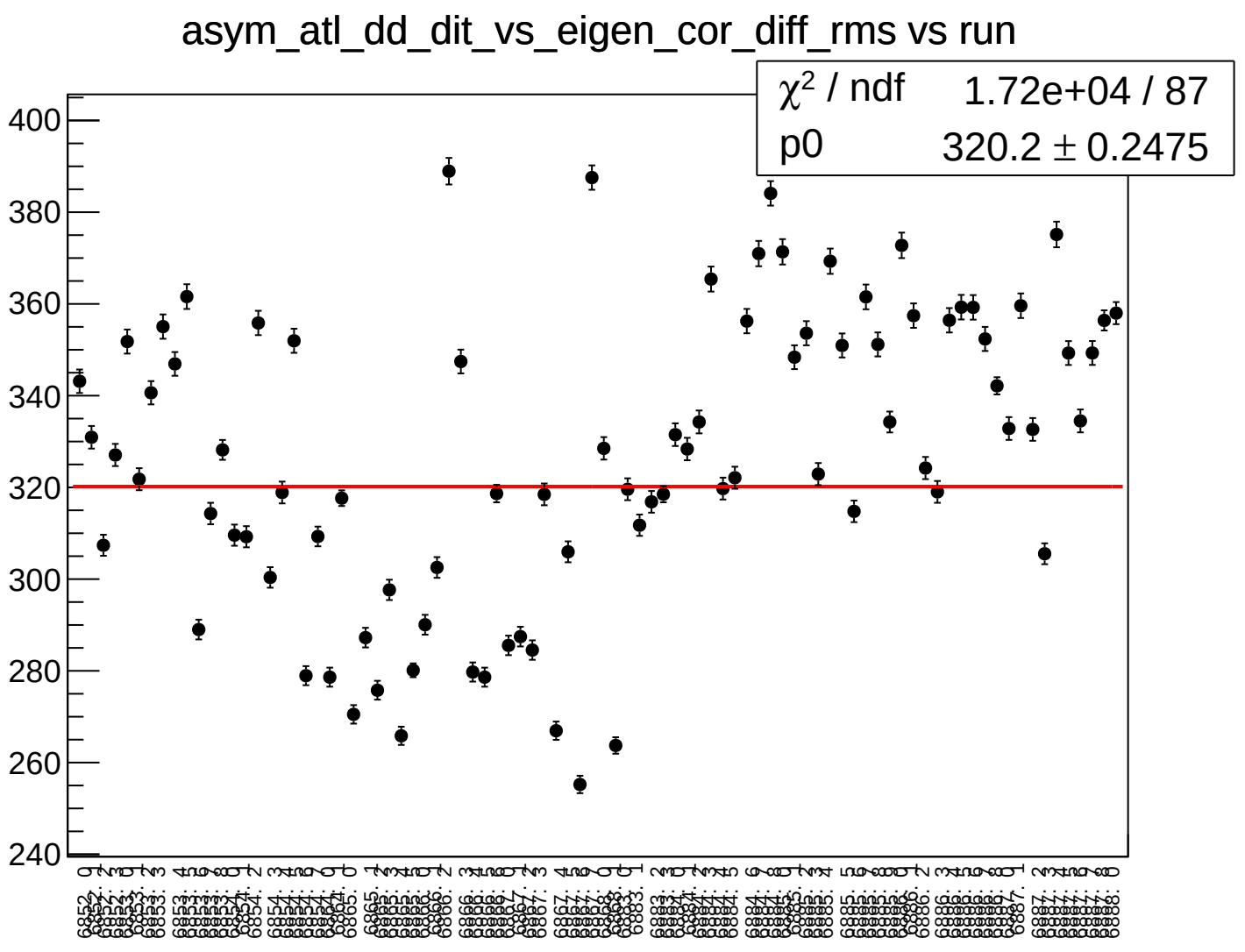

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.57 / 87
p0 0.258 ± 0.35
pull
Entries 88
Mean 66.13
Std Dev 0

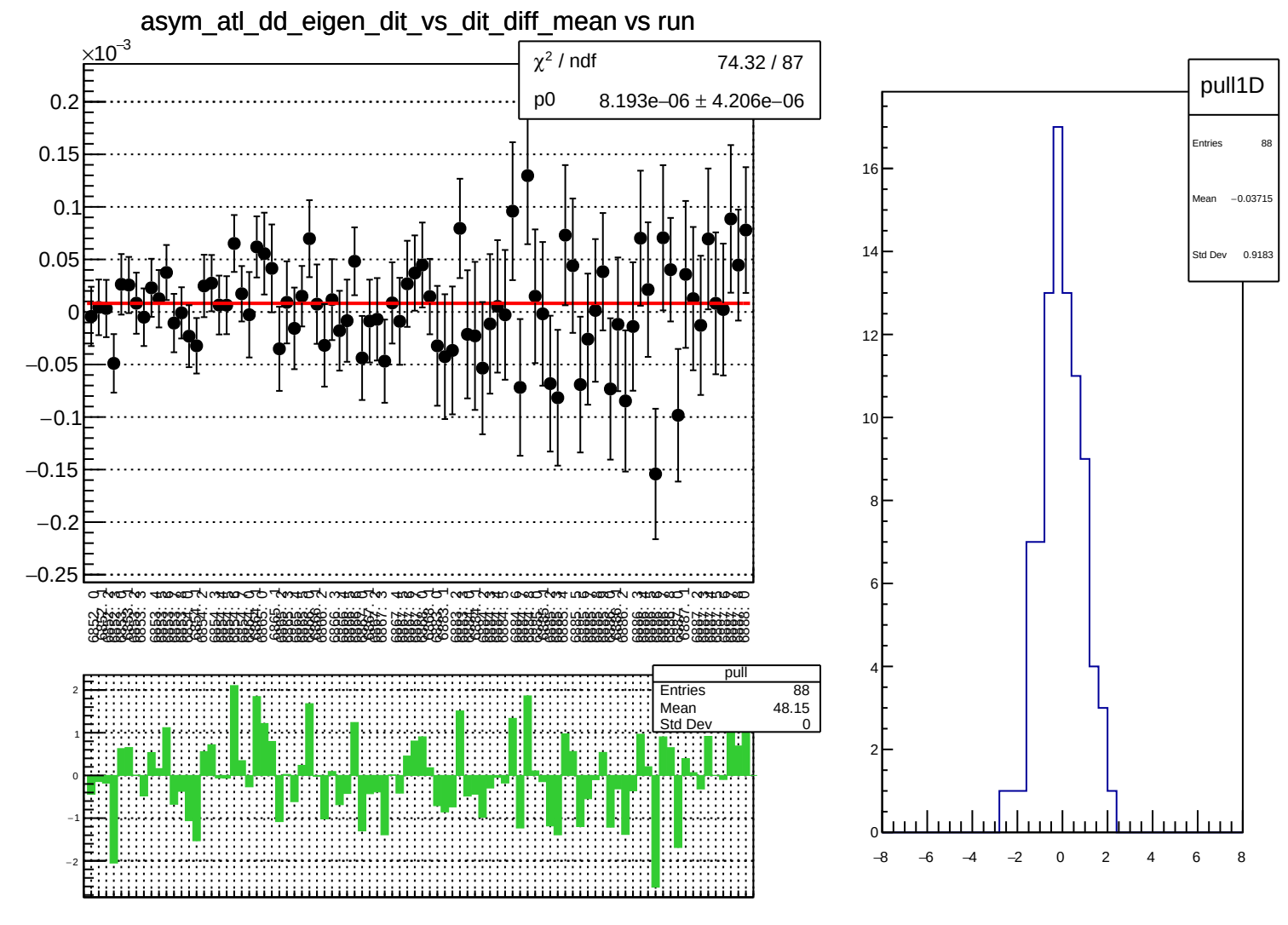

pull1D
Entries 88
Mean −0.002338
Std Dev 0.9328

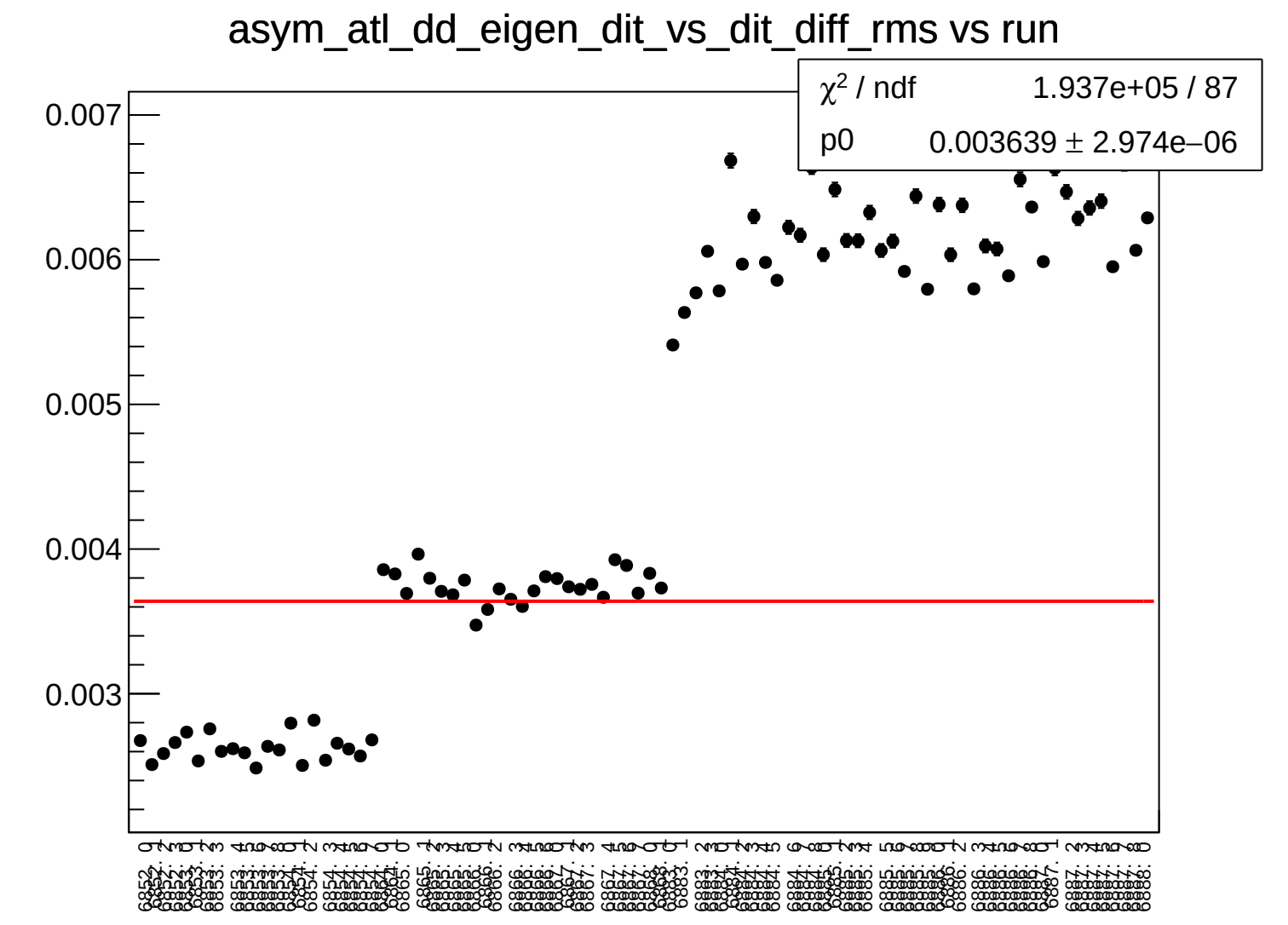

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.72e+04 / 87
p0 320.2 ± 0.2475
400
380
360
340
320
300
280
260
240

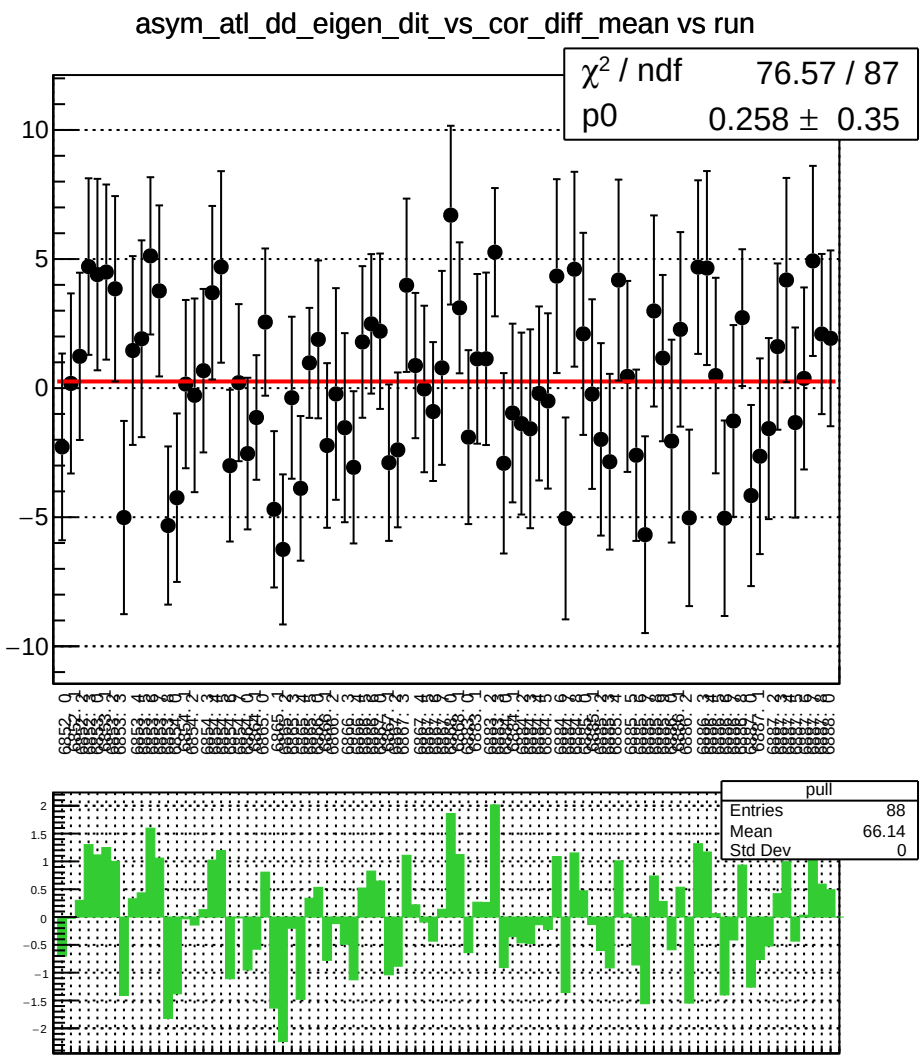

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.57 / 87
p0 0.258 ± 0.35
10
5
0
−5
−10
pull
Entries 88
Mean 66.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

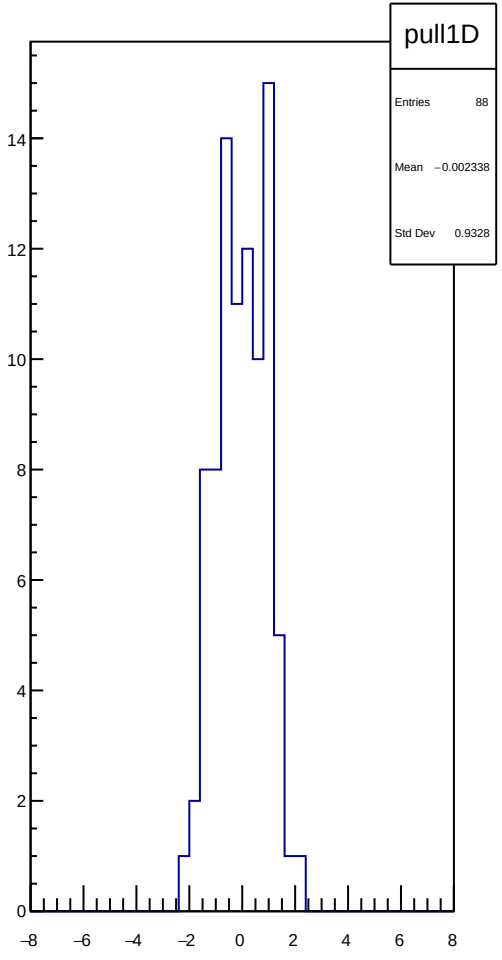

pull1D
Entries 88
Mean −0.002338
Std Dev 0.9328
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

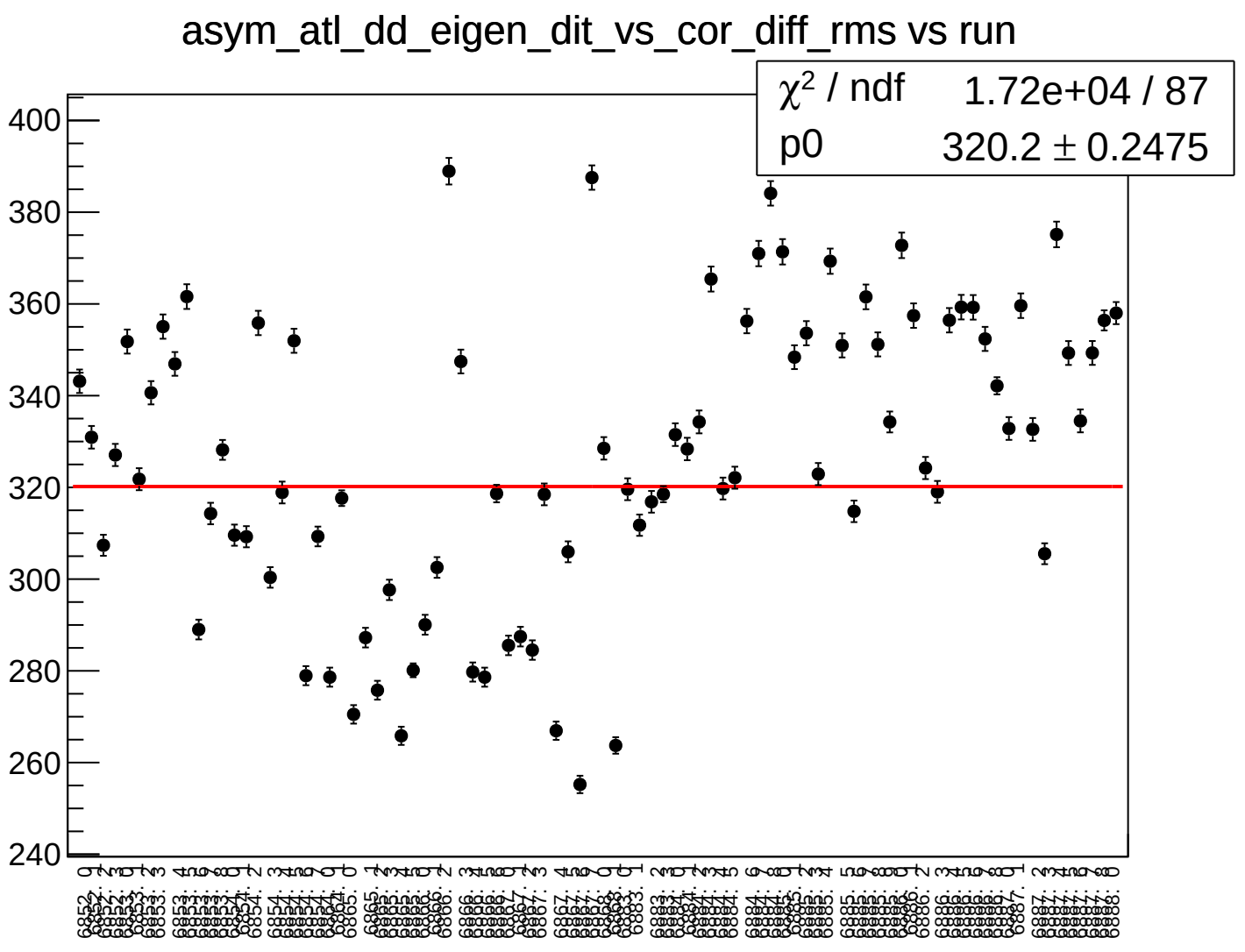

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.72e+04 / 87
p0 320.2 ± 0.2475
400
380
360
340
320
300
280
260
240

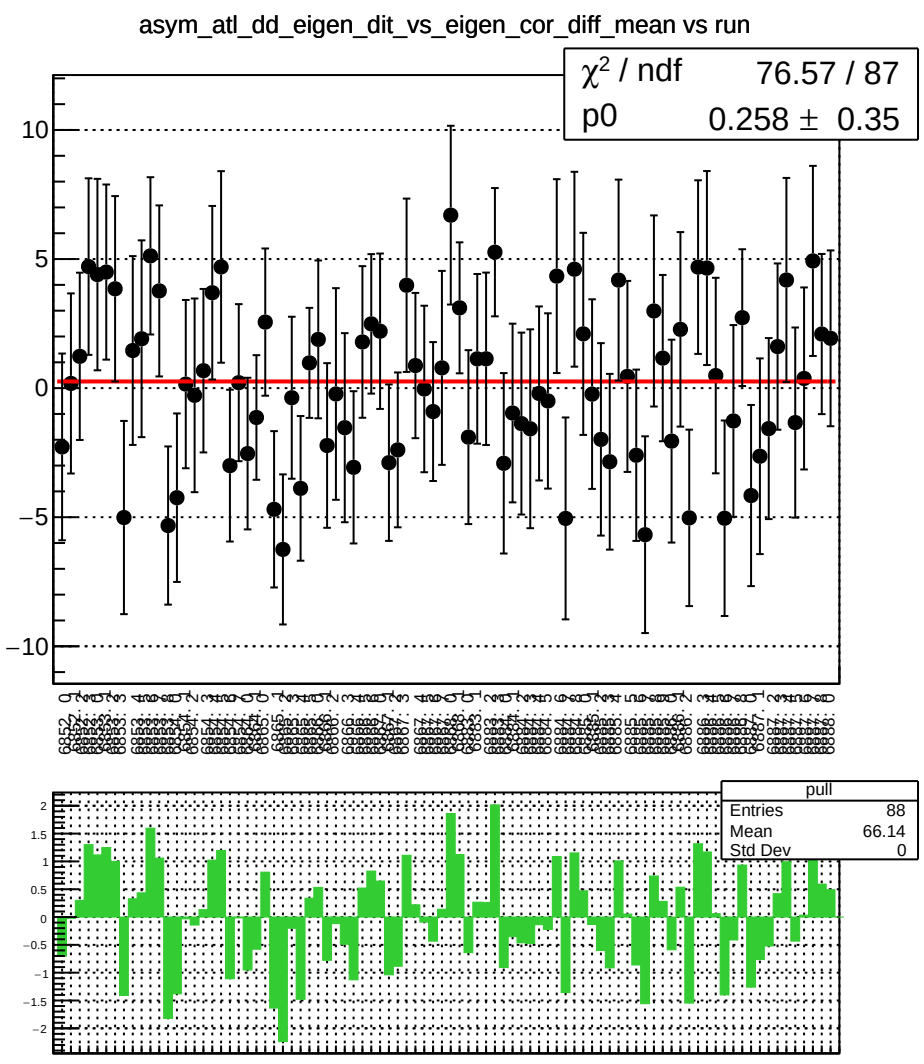

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.32 / 87
p0 8.193e−06 ± 4.206e−06
pull
Entries 88
Mean 48.15
Std Dev 0
pull1D
Entries 88
Mean −0.03715
Std Dev 0.9183

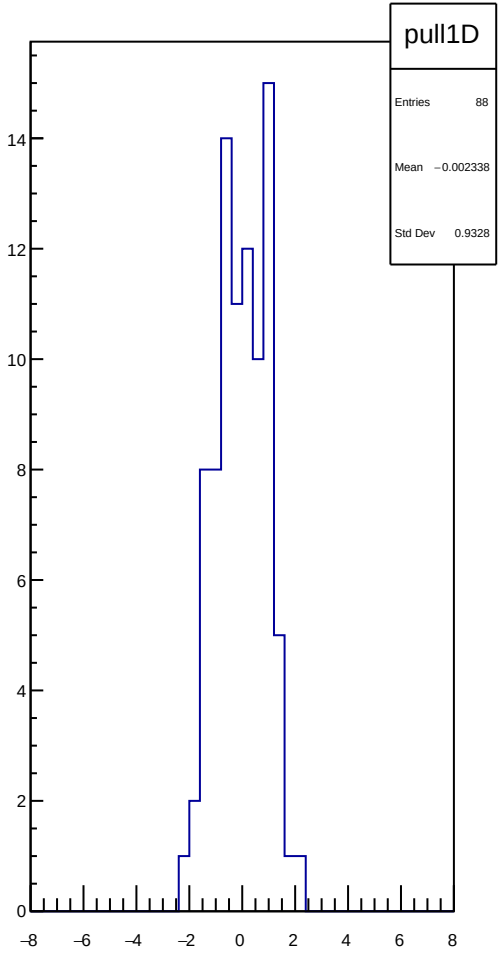

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.937e+05 / 87
p0 0.003639 ± 2.974e−06
0.007
0.006
0.005
0.004
0.003

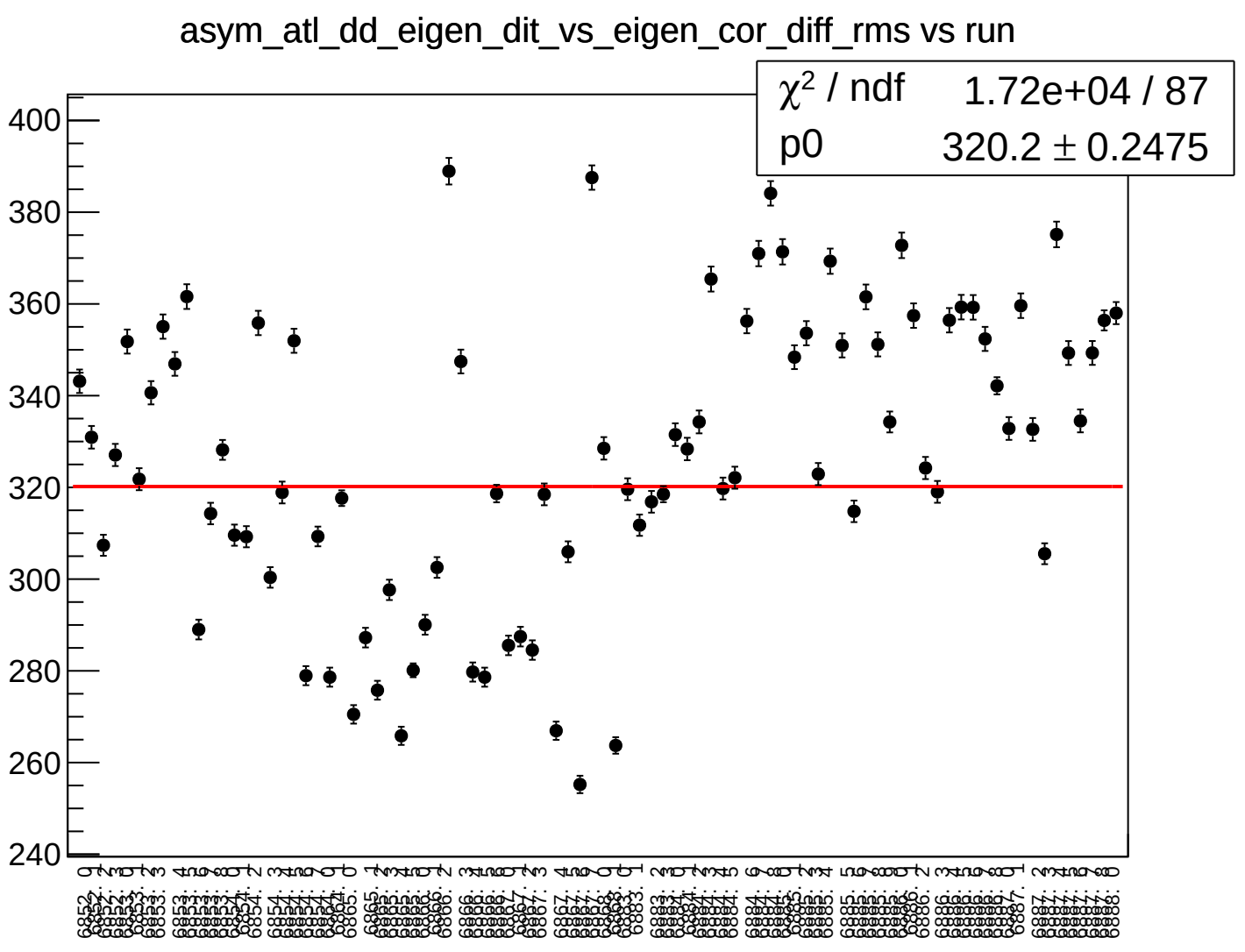

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.57 / 87
p0 0.258 ± 0.35
pull
Entries 88
Mean 66.14
Std Dev 0

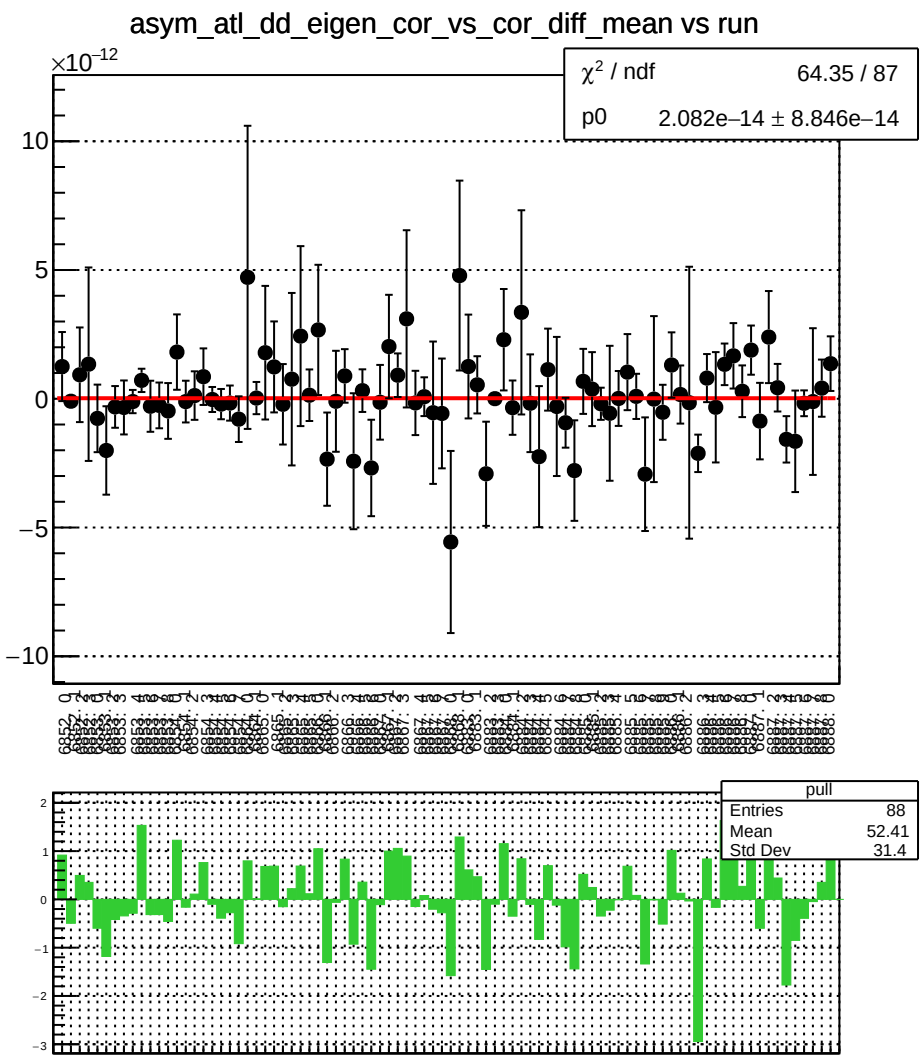

pull1D
Entries 88
Mean −0.002338
Std Dev 0.9328

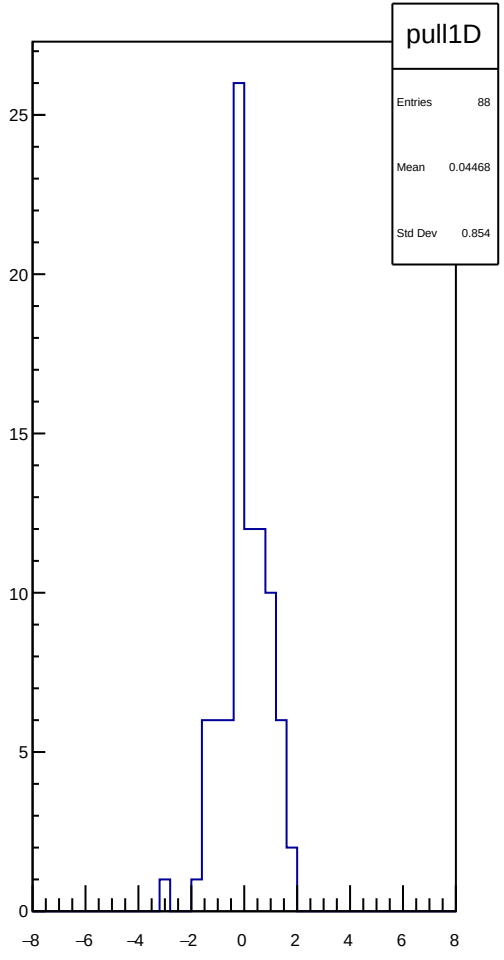

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.72e+04 / 87
p0 320.2 ± 0.2475
400
380
360
340
320
300
280
260
240

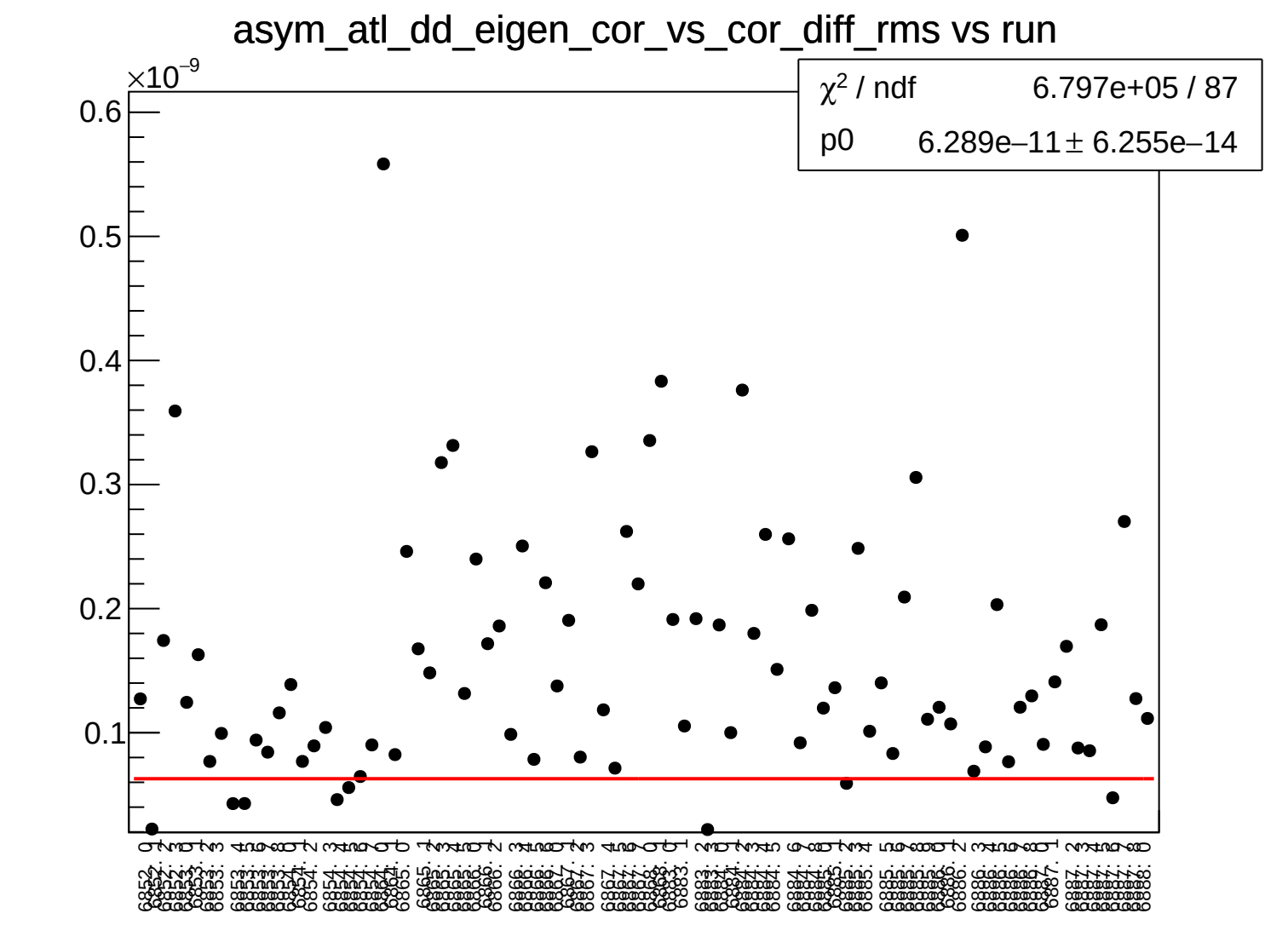

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.57 / 87
p0 0.258 ± 0.35
pull
Entries 88
Mean 66.14
Std Dev 0

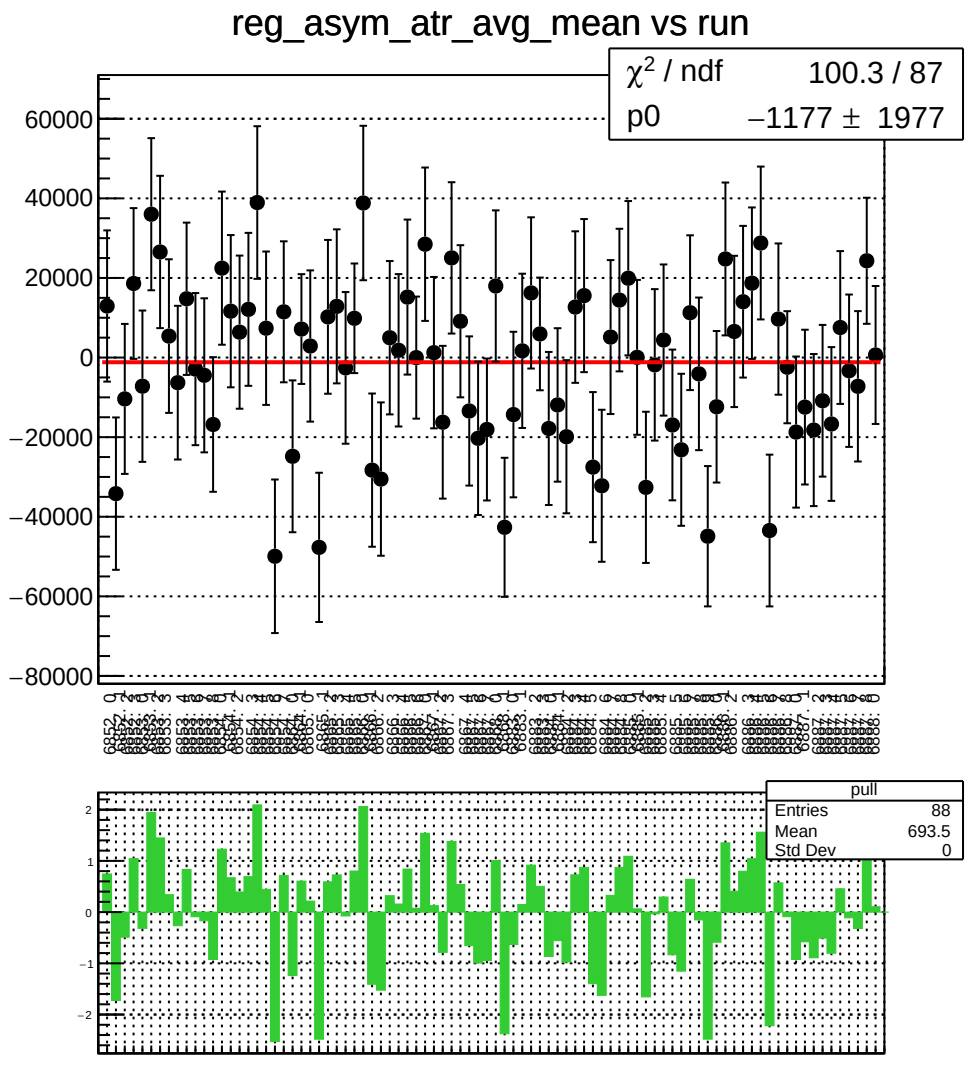

pull1D
Entries 88
Mean −0.002338
Std Dev 0.9328

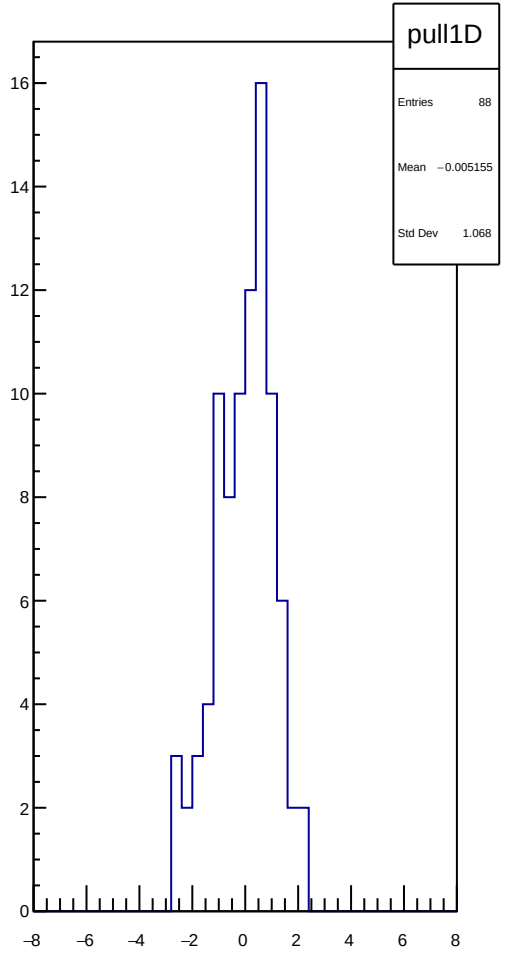

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.72e+04 / 87
p0 320.2 ± 0.2475
400
380
360
340
320
300
280
260
240

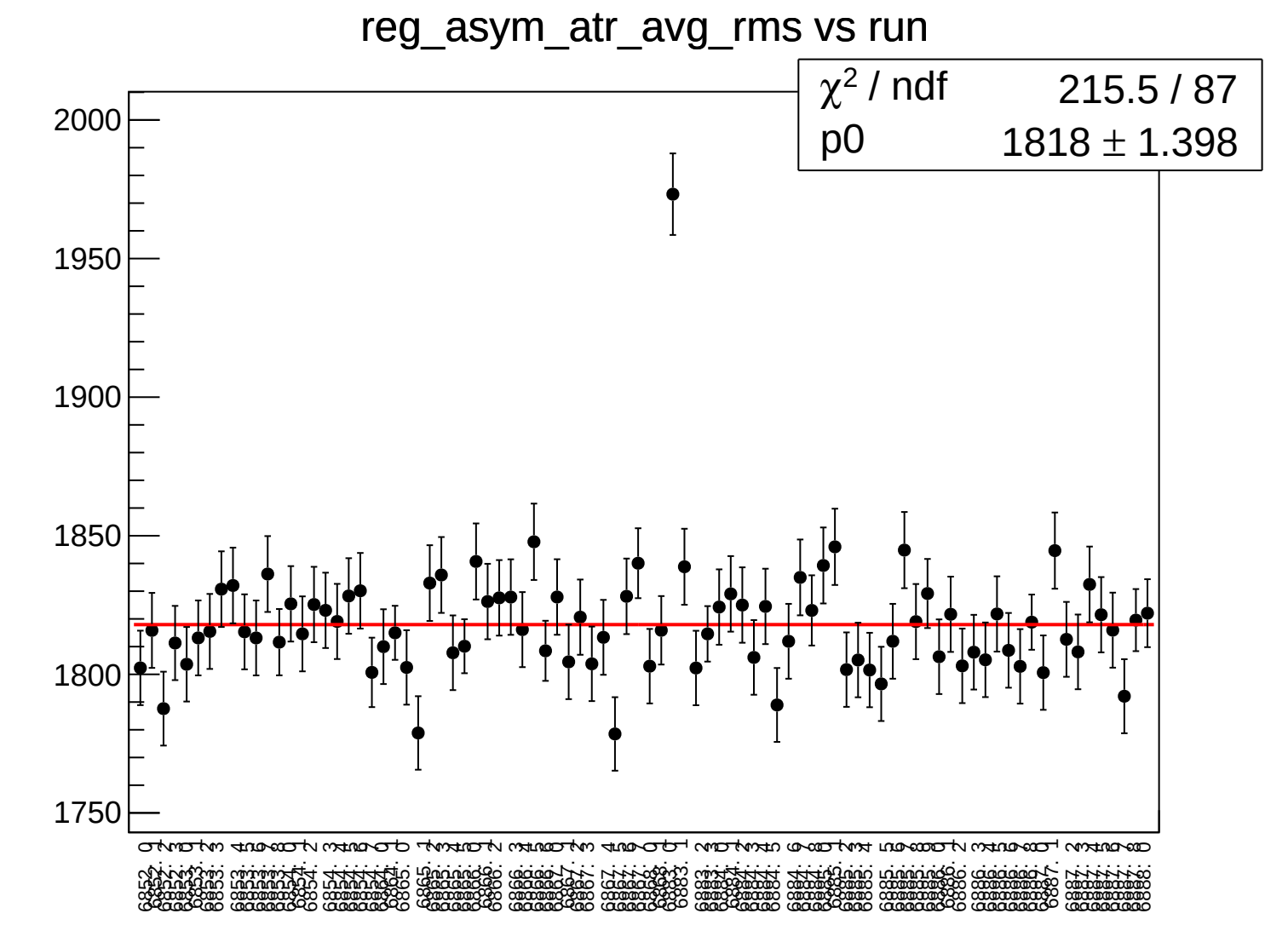

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.35 / 87
p0 2.082e−14 ± 8.846e−14
10
5
0
−5
−10
pull
Entries 88
Mean 52.41
Std Dev 31.4
2
1
0
−1
−2
−3

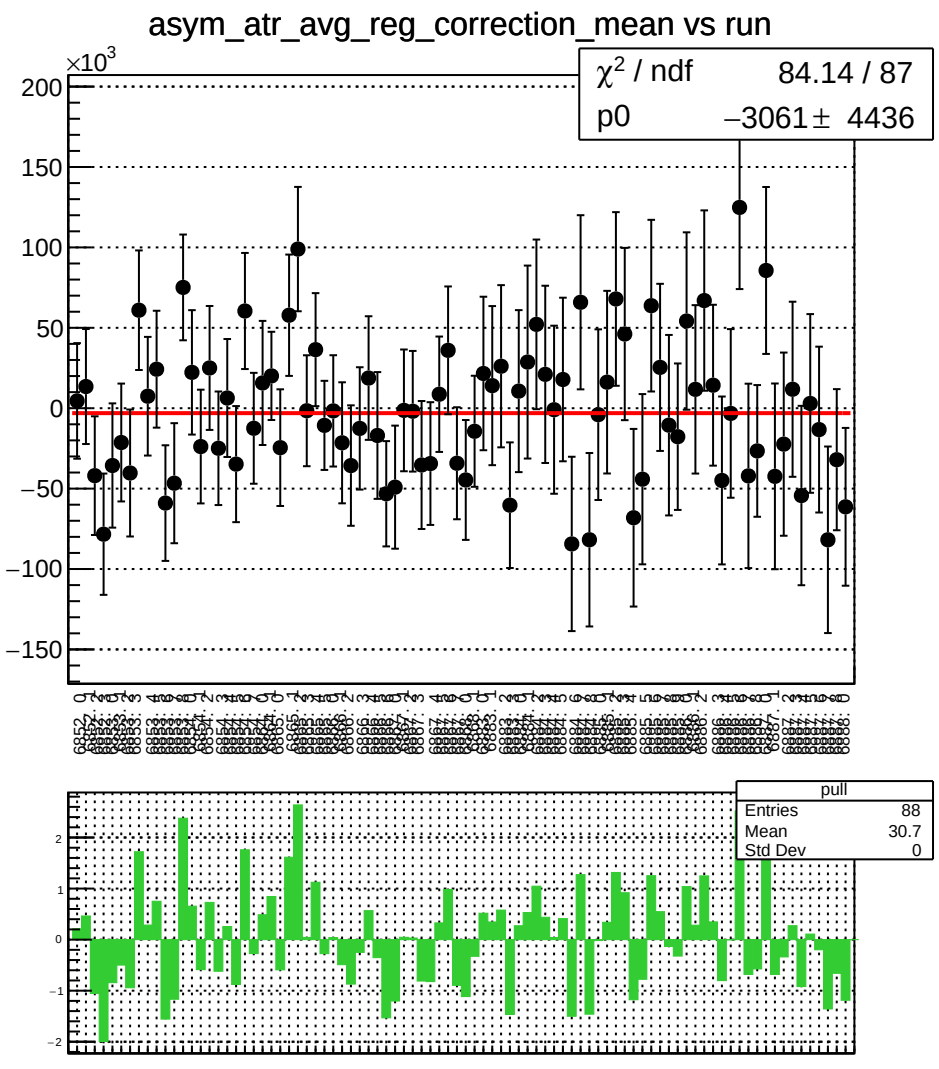

pull1D
Entries 88
Mean 0.04468
Std Dev 0.854
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

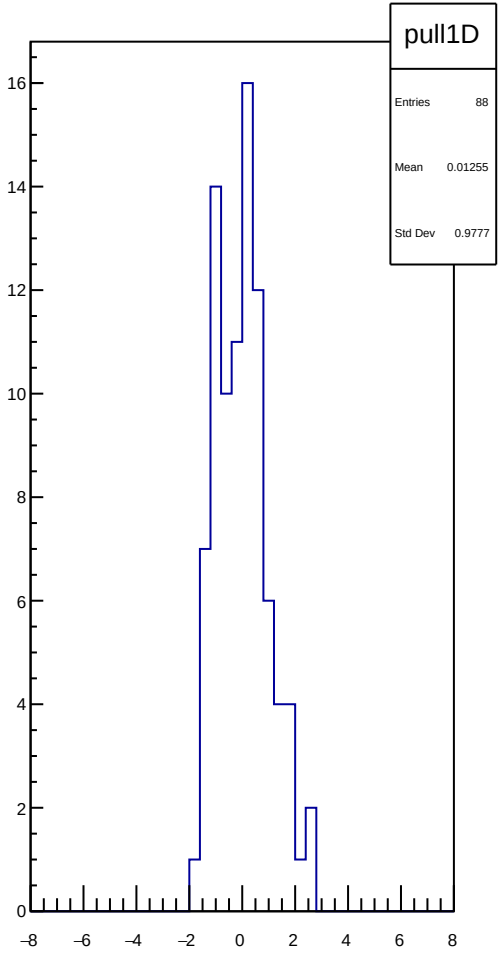

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.797e+05 / 87
p0 6.289e−11 ± 6.255e−14
0.6
0.5
0.4
0.3
0.2
0.1

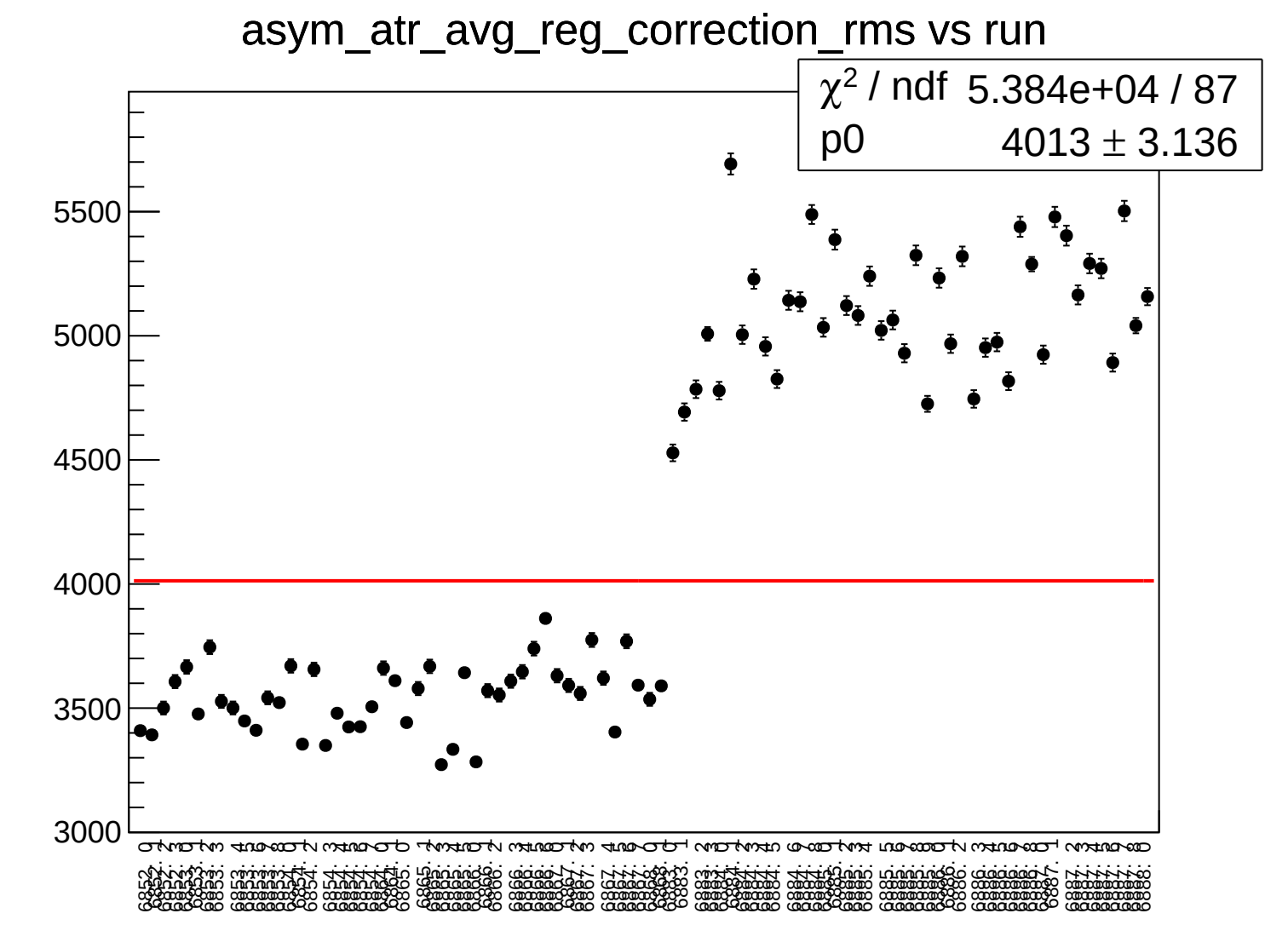

reg_asym_atr_avg_mean vs run
χ² / ndf 100.3 / 87
p0 −1177 ± 1977
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 693.5
Std Dev 0
2
1
0
−1
−2

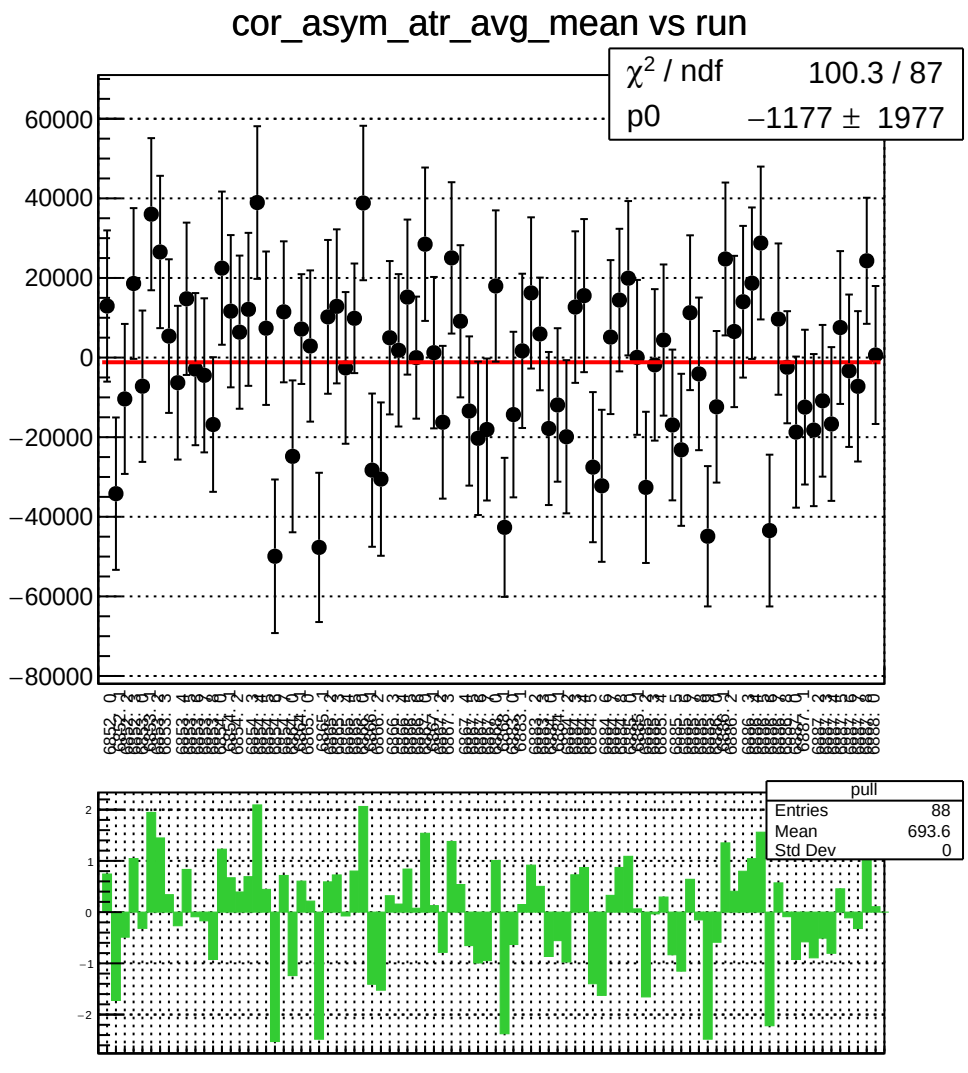

pull1D
Entries 88
Mean −0.005155
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

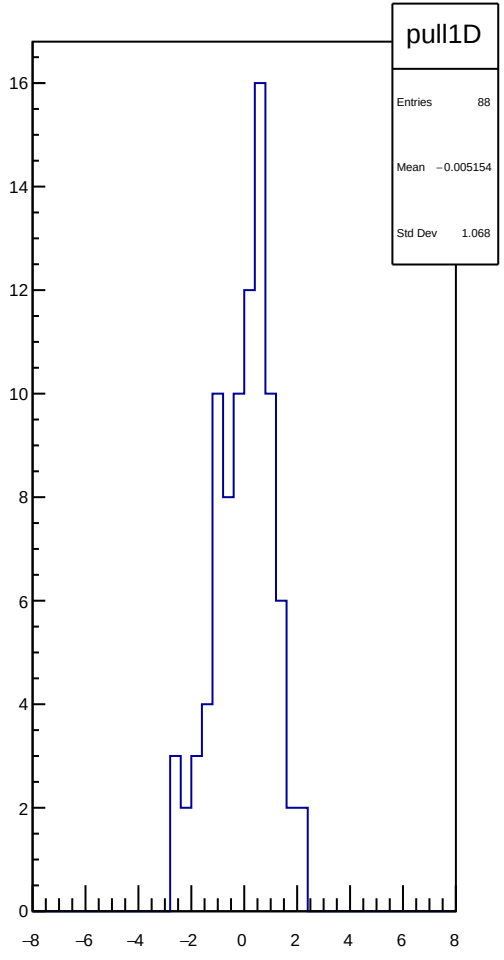

reg_asym_atr_avg_rms vs run
χ^2 / ndf 215.5 / 87
p0 1818 ± 1.398
2000
1950
1900
1850
1800
1750

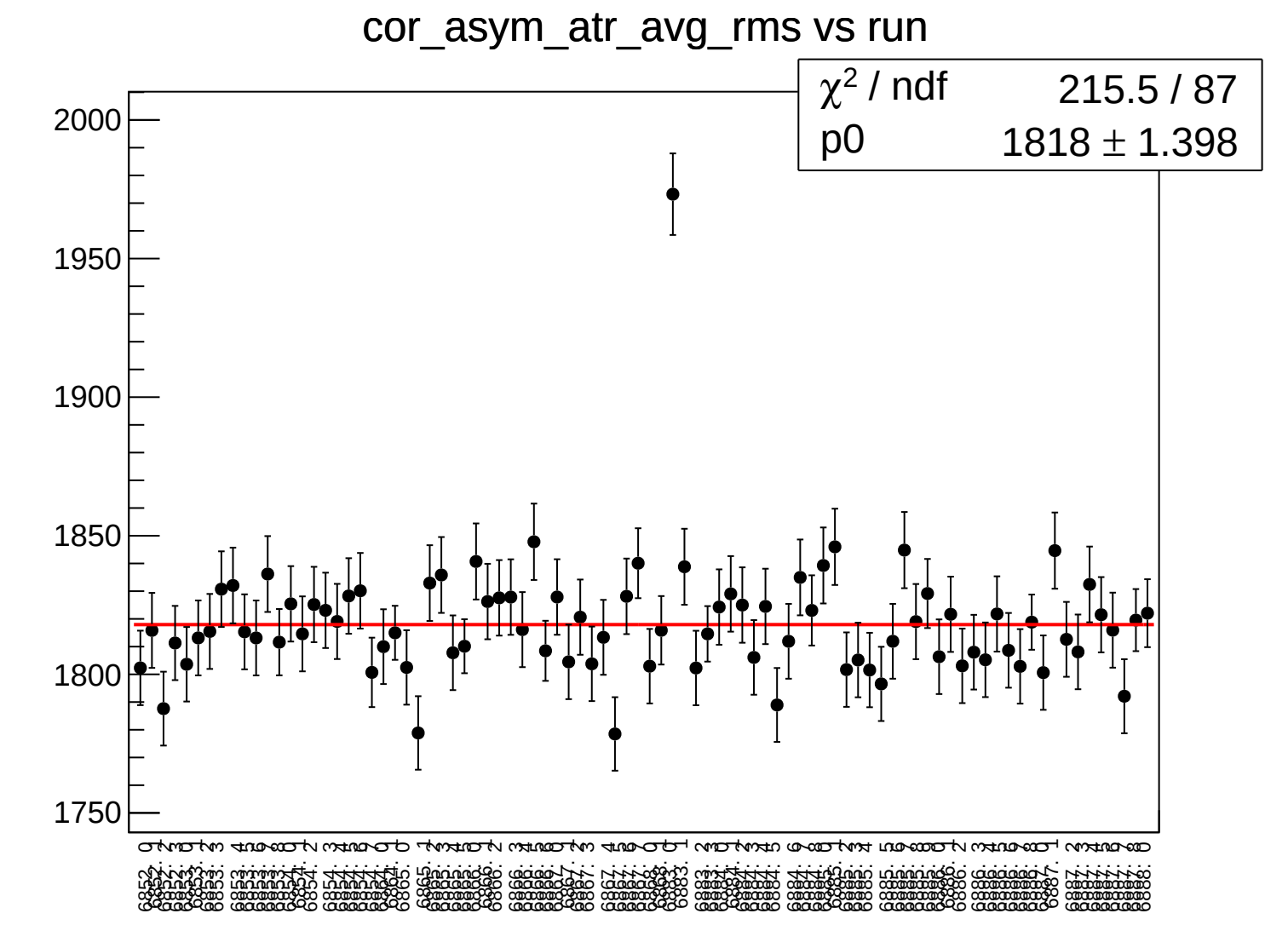

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.14 / 87
p0 −3061 ± 4436
pull
Entries 88
Mean 30.7
Std Dev 0

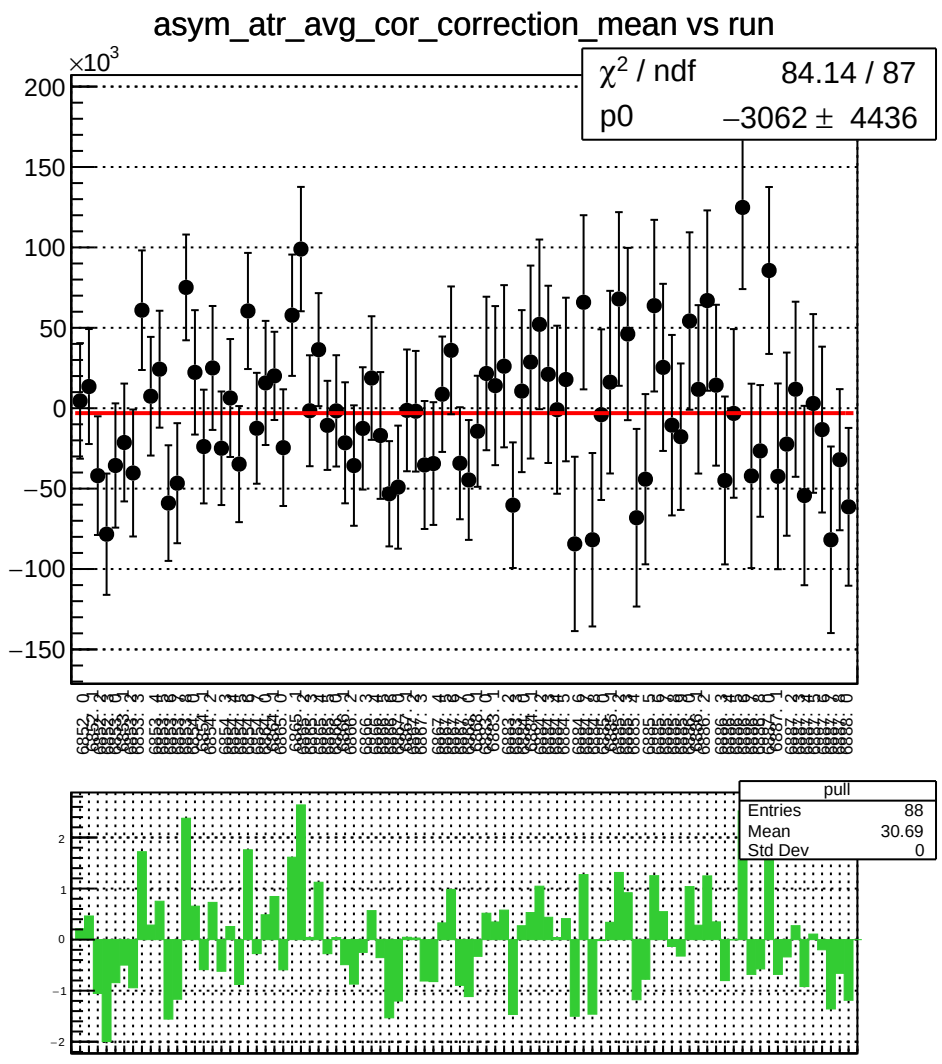

pull1D
Entries 88
Mean 0.01255
Std Dev 0.9777

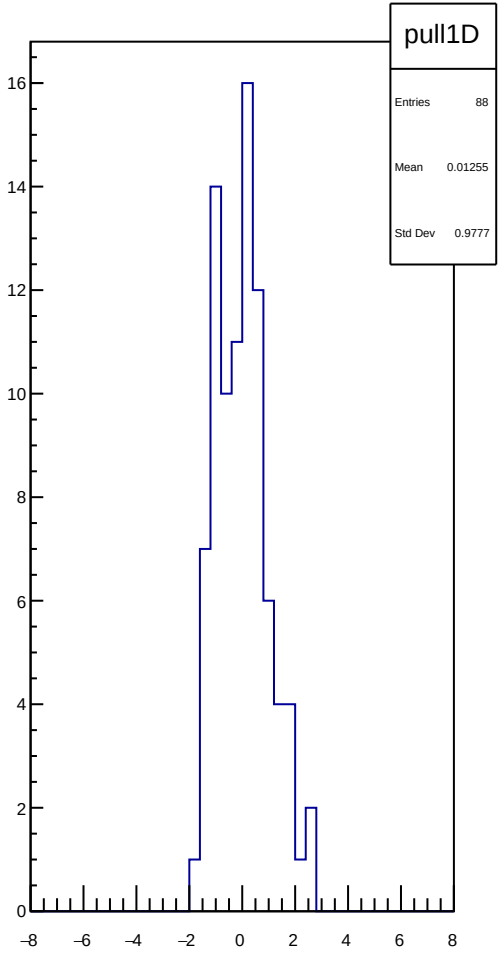

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 5.384e+04 / 87
p0 4013 ± 3.136
5500
5000
4500
4000
3500
3000

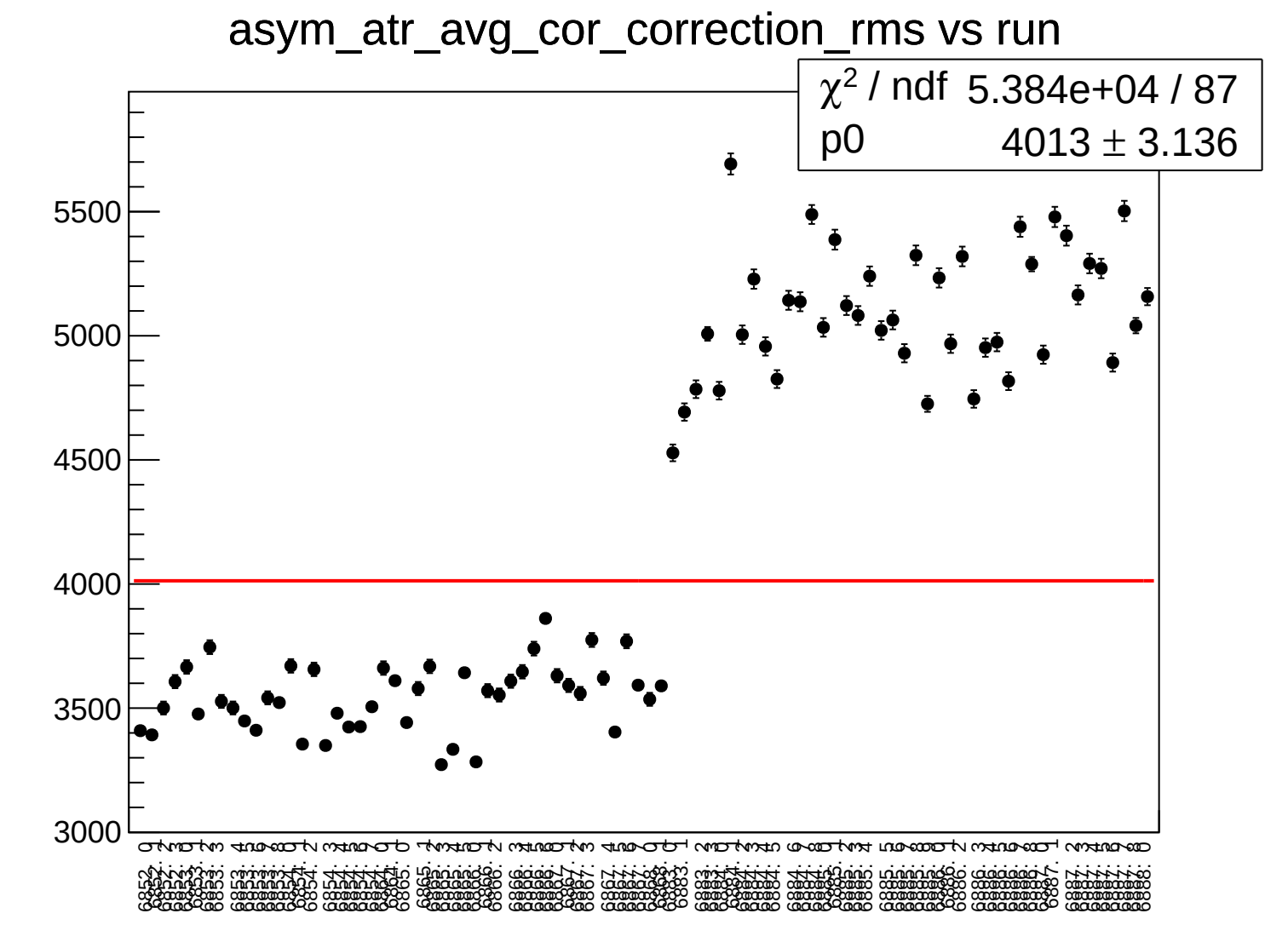

cor_asym_atr_avg_mean vs run
χ² / ndf 100.3 / 87
p0 −1177 ± 1977
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 693.6
Std Dev 0
2
1
0
−1
−2

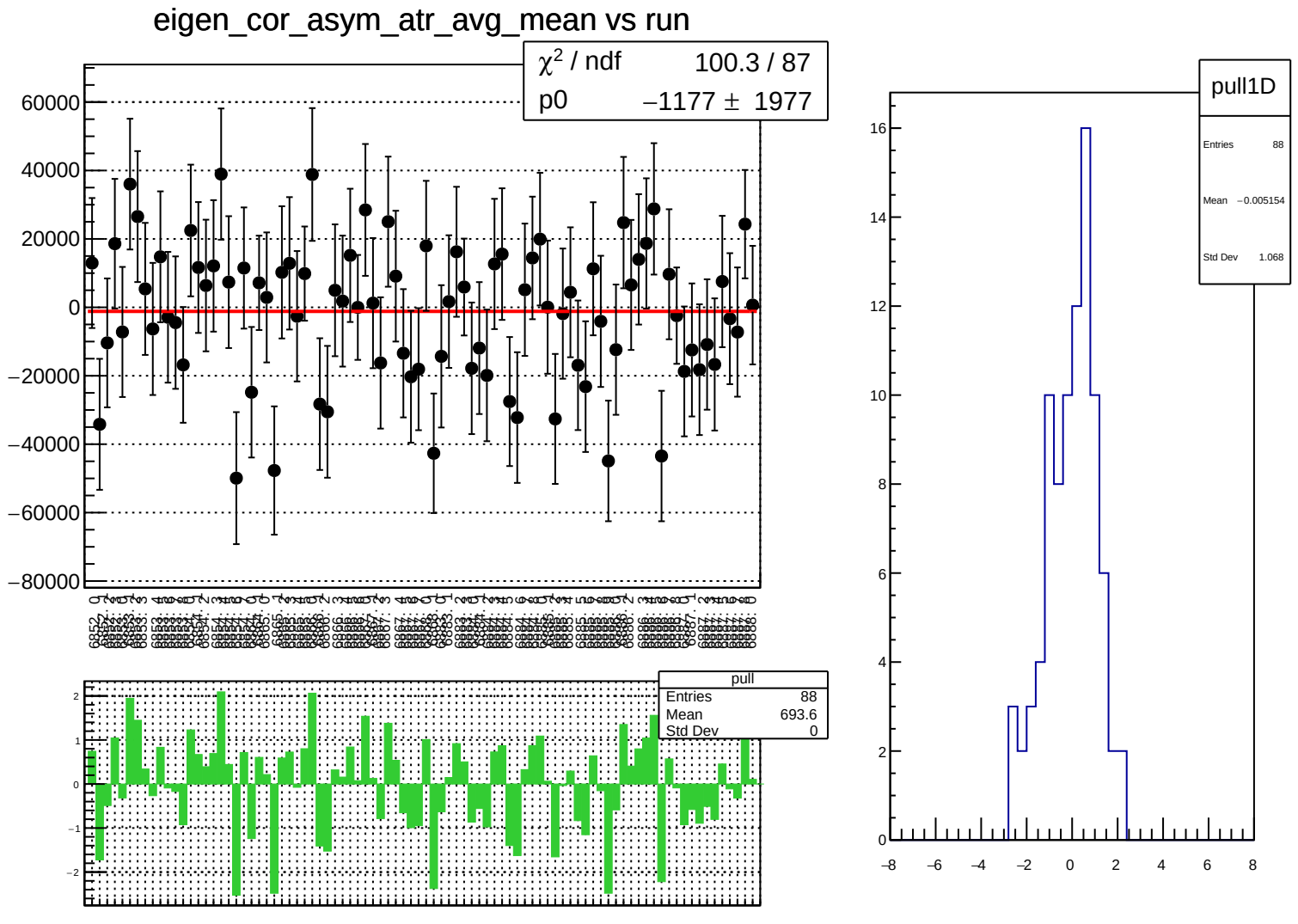

pull1D
Entries 88
Mean −0.005154
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

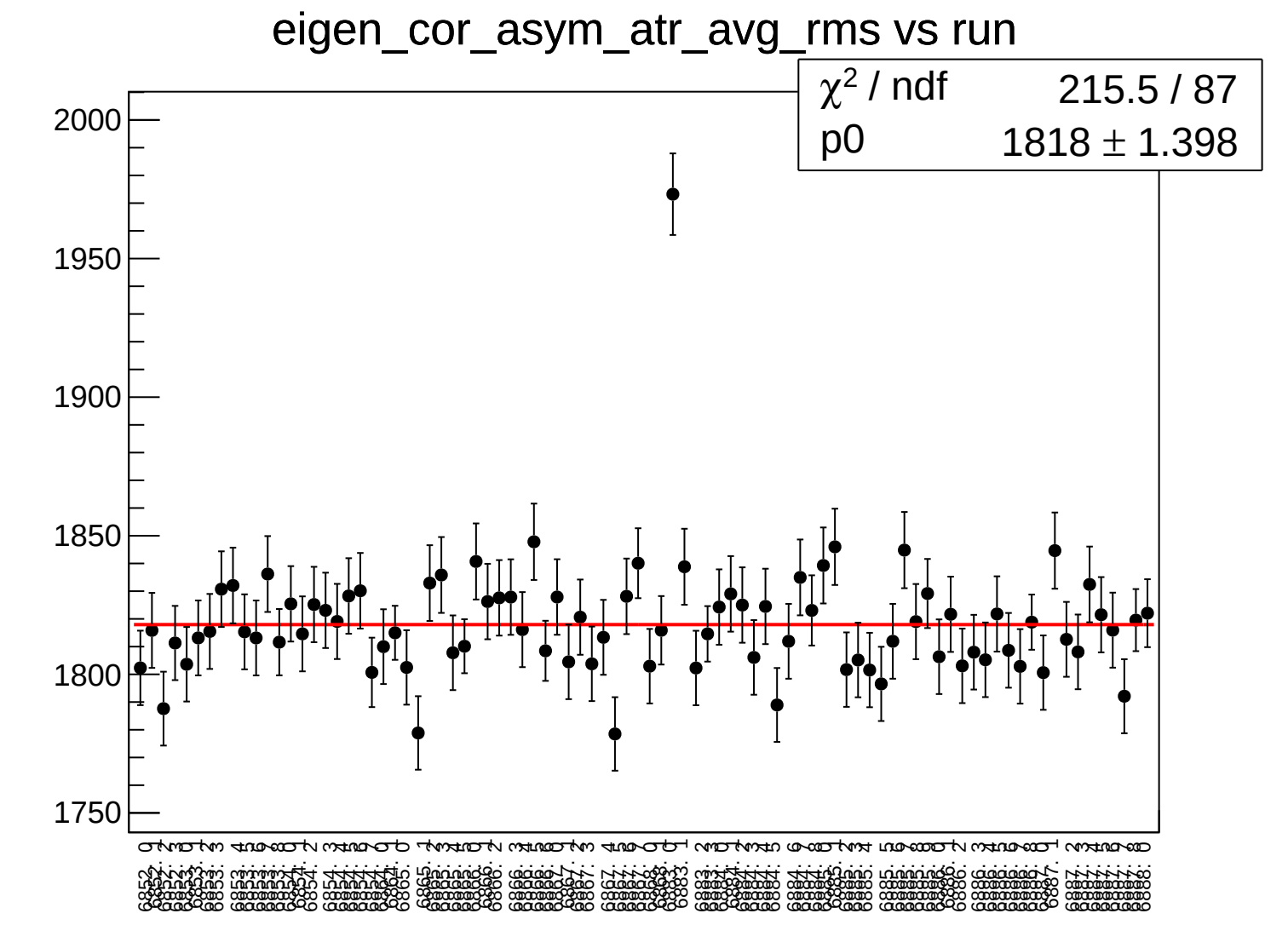

cor_asym_atr_avg_rms vs run
χ² / ndf 215.5 / 87
p0 1818 ± 1.398
2000
1950
1900
1850
1800
1750

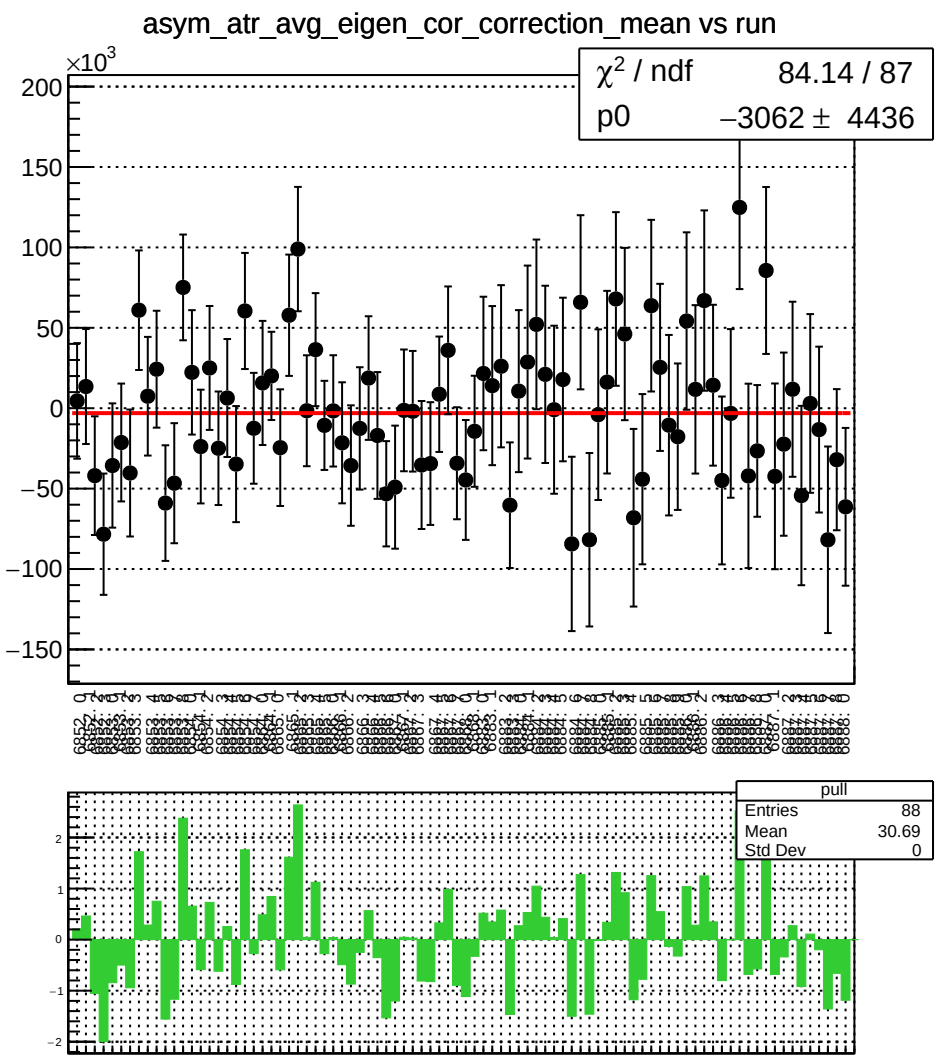

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.14 / 87
p0 −3062 ± 4436
pull
Entries 88
Mean 30.69
Std Dev 0

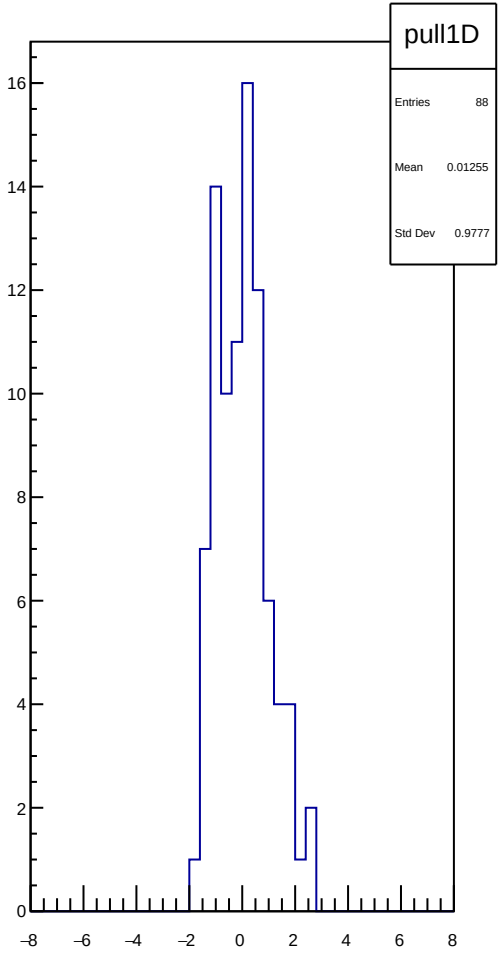

pull1D
Entries 88
Mean 0.01255
Std Dev 0.9777

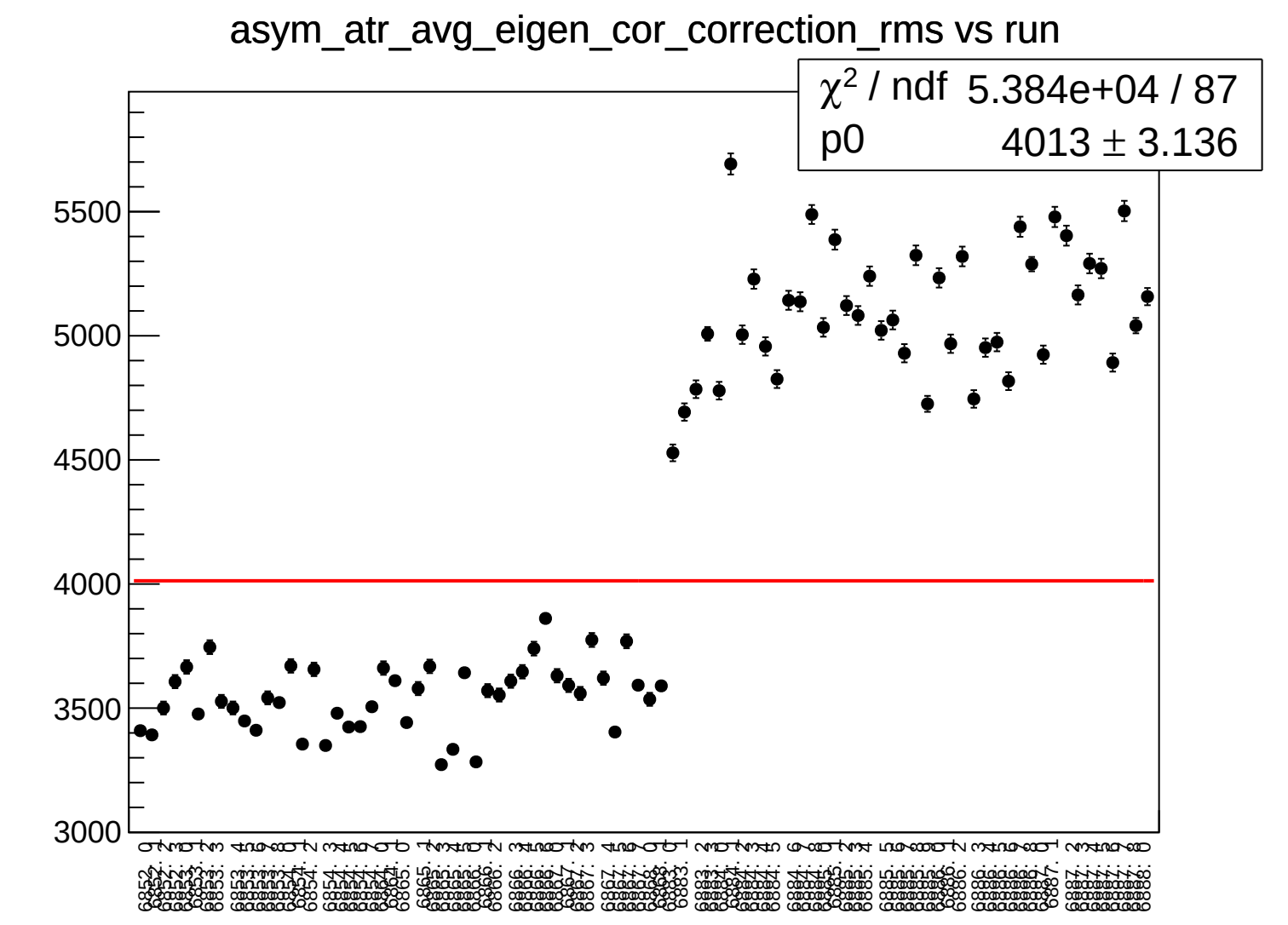

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 5.384e+04 / 87
p0 4013 ± 3.136
5500
5000
4500
4000
3500
3000

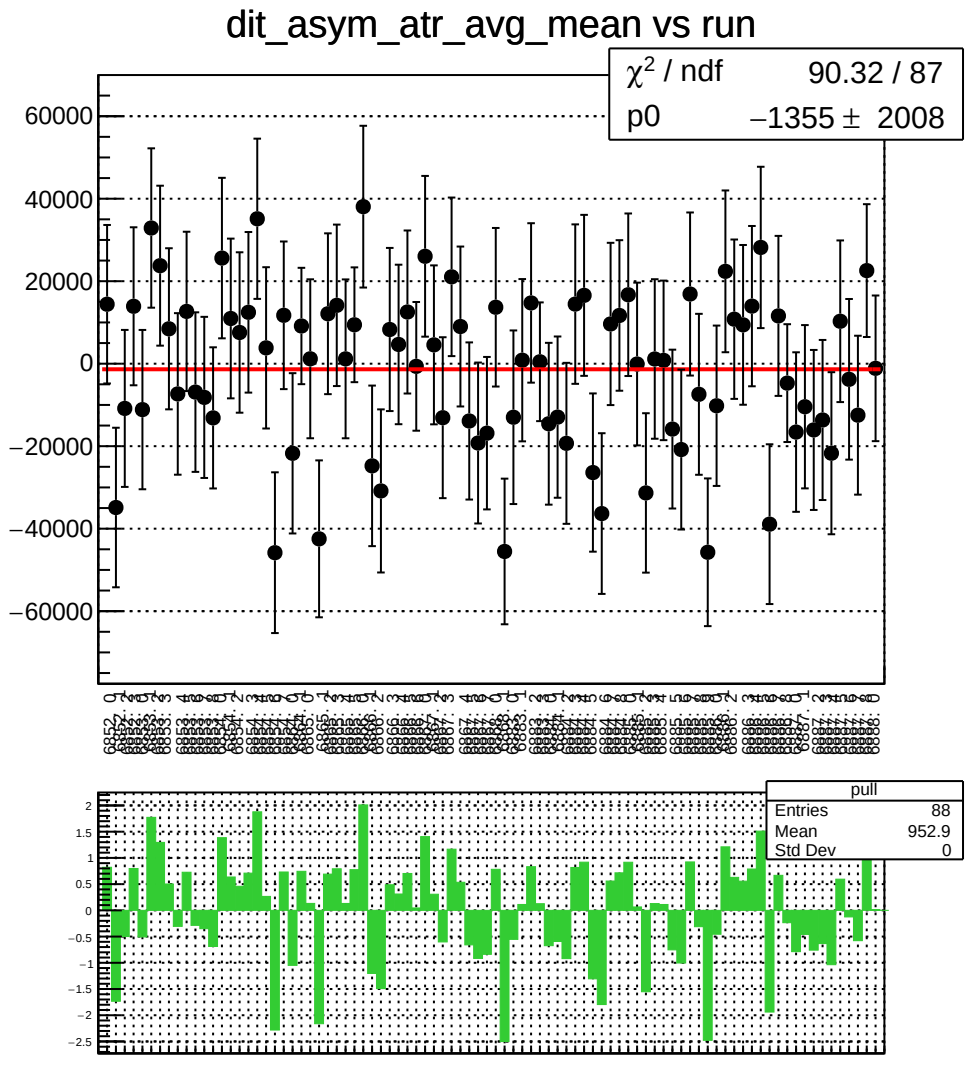

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 100.3 / 87
p0 −1177 ± 1977
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 693.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.005154
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

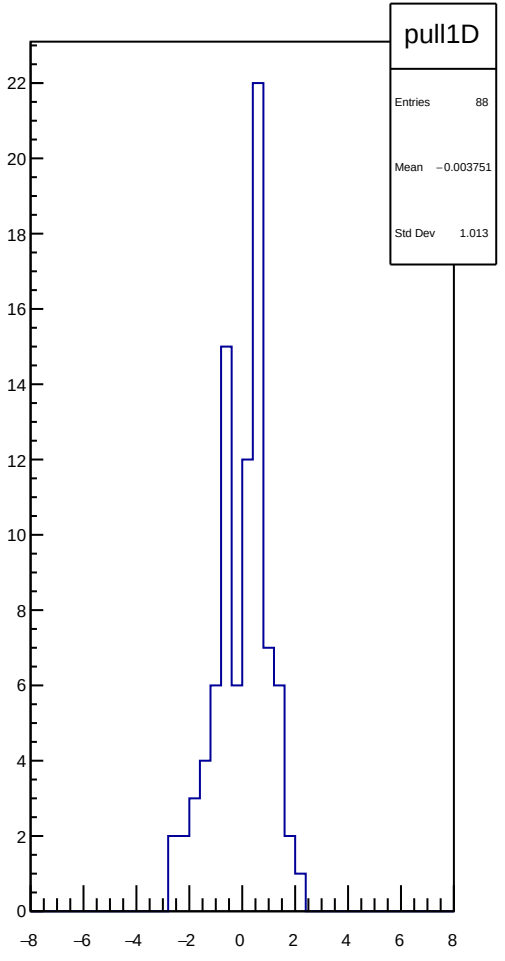

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 215.5 / 87
p0 1818 ± 1.398
2000
1950
1900
1850
1800
1750

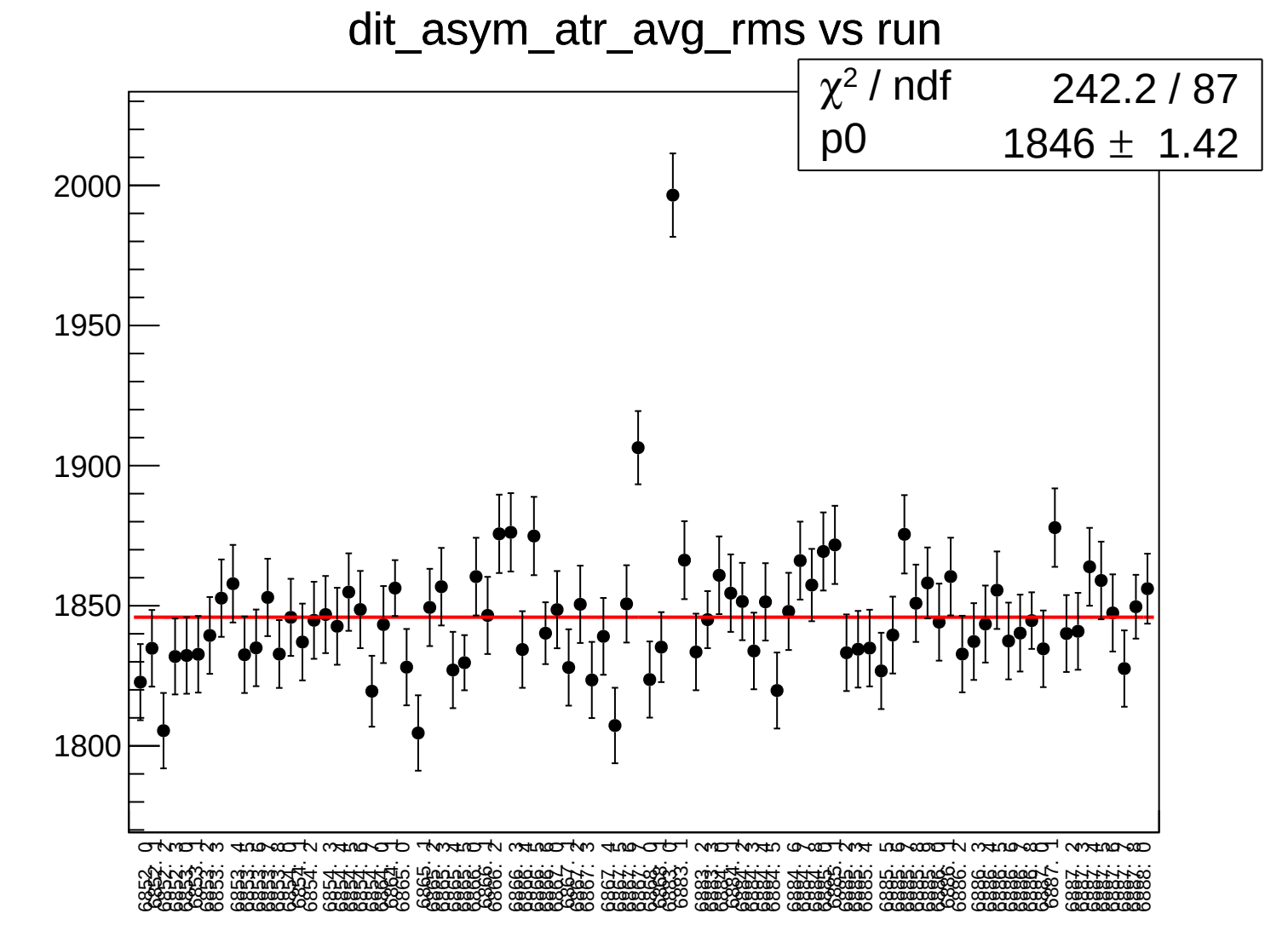

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.14 / 87
p0 −3062 ± 4436
pull
Entries 88
Mean 30.69
Std Dev 0

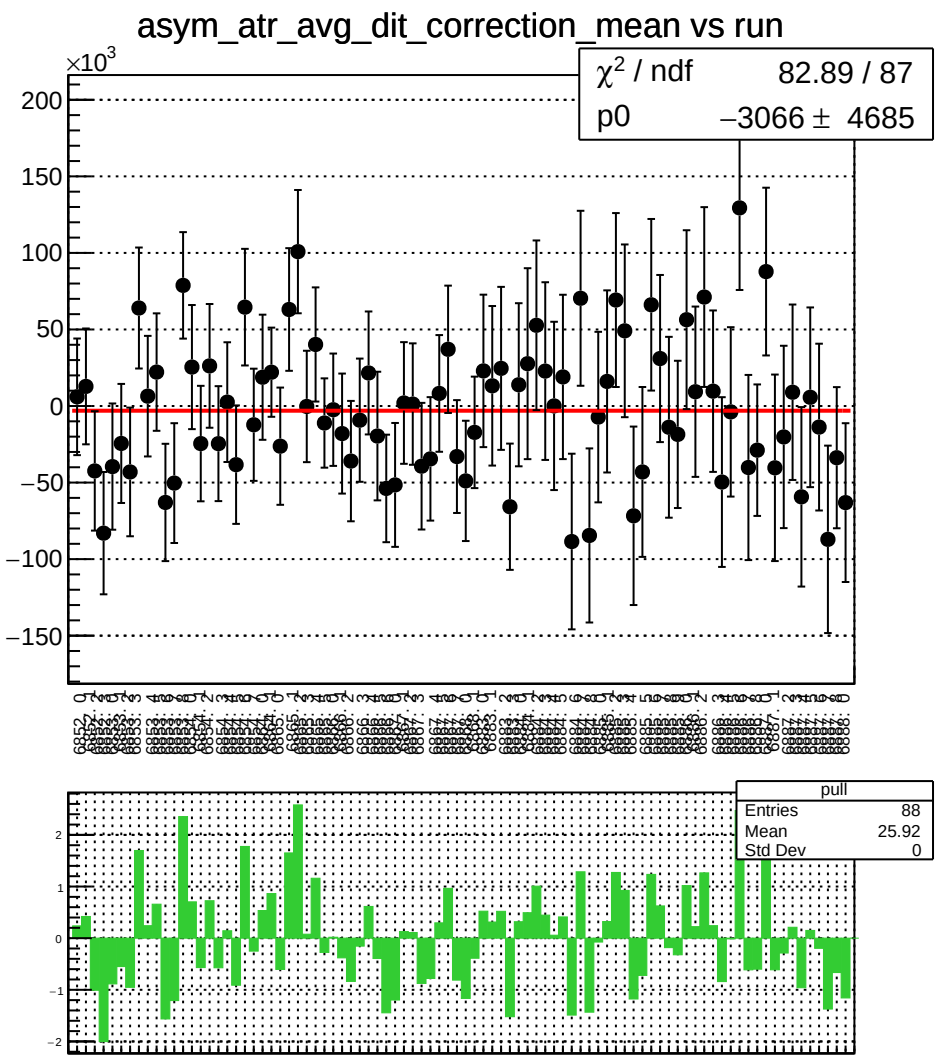

pull1D
Entries 88
Mean 0.01255
Std Dev 0.9777

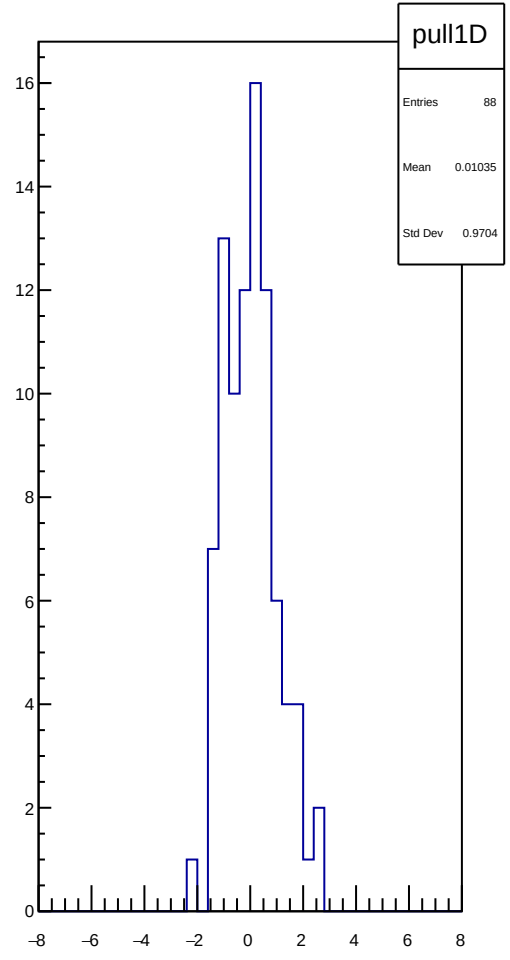

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.384e+04 / 87
p0 4013 ± 3.136
5500
5000
4500
4000
3500
3000

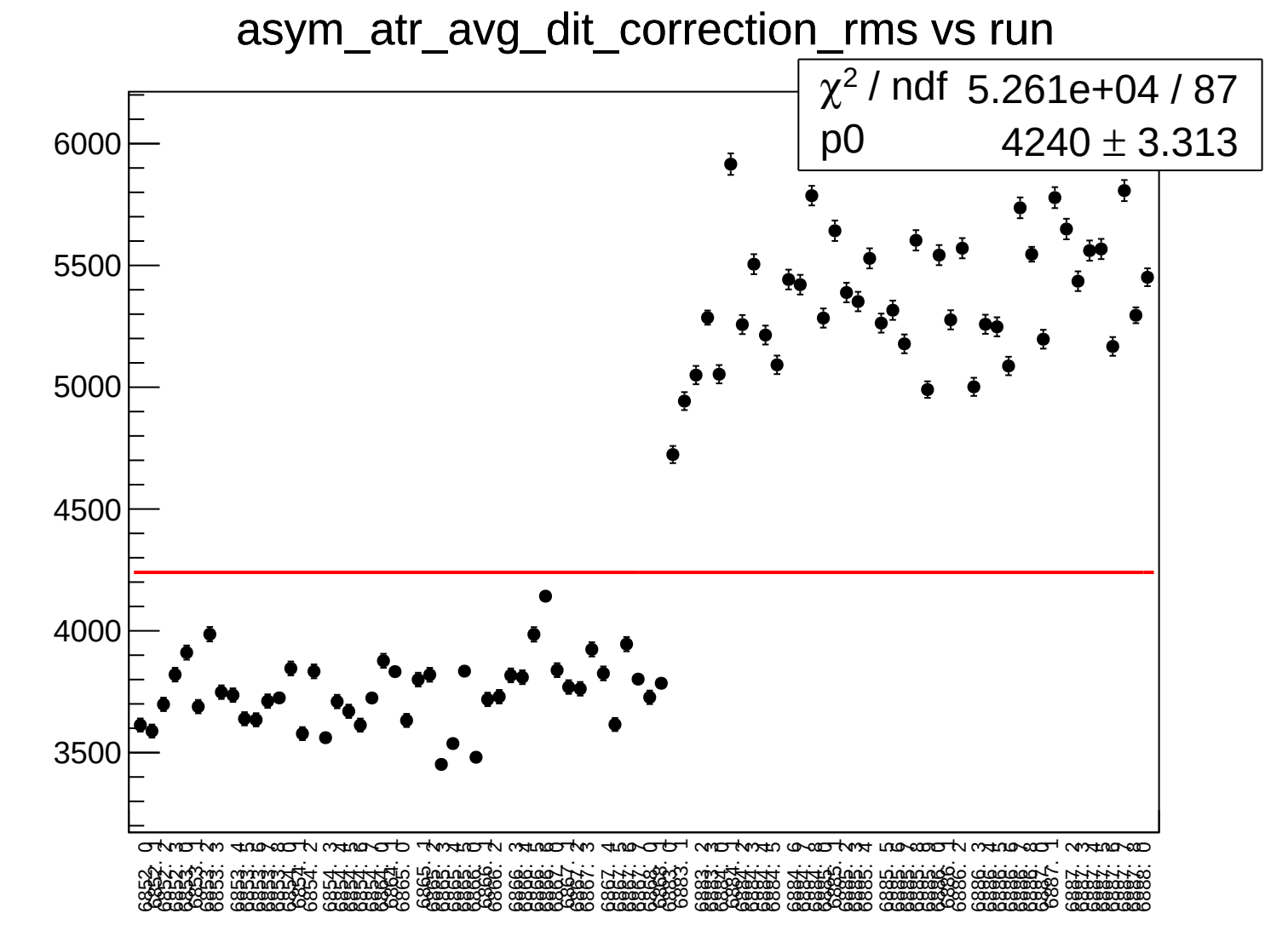

dit_asym_atr_avg_mean vs run
χ² / ndf 90.32 / 87
p0 −1355 ± 2008
pull
Entries 88
Mean 952.9
Std Dev 0

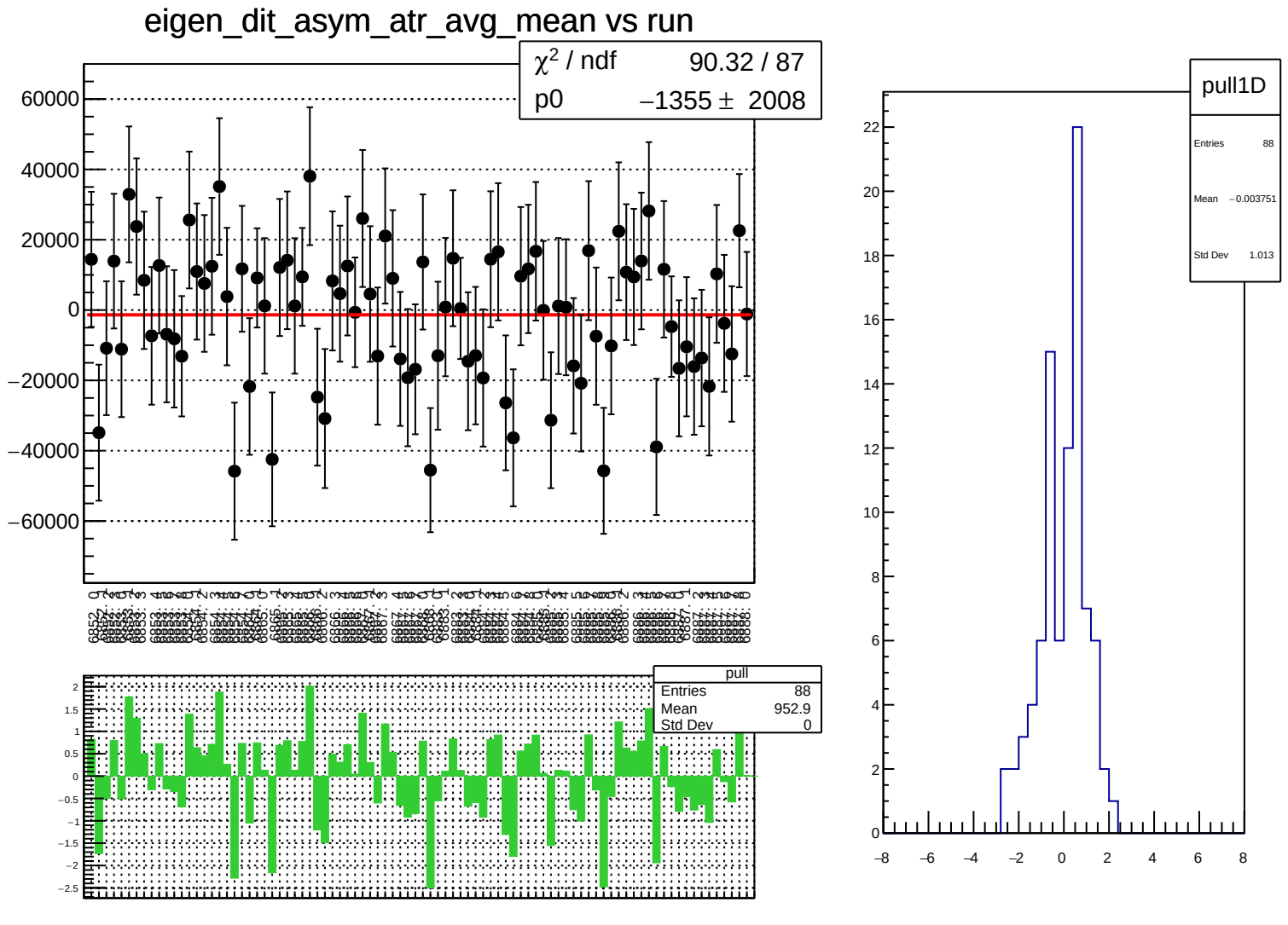

pull1D
Entries 88
Mean −0.003751
Std Dev 1.013

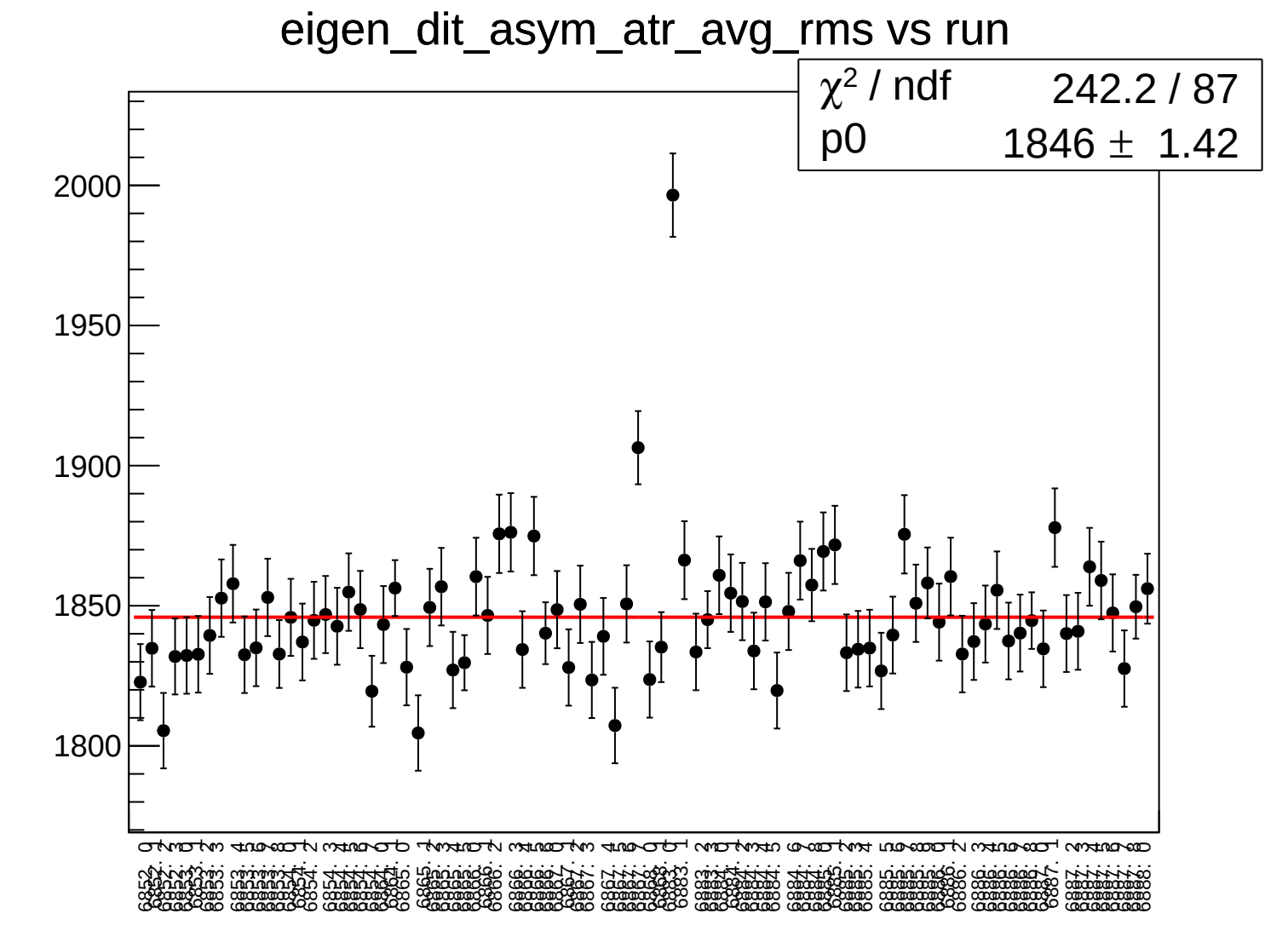

dit_asym_atr_avg_rms vs run
χ² / ndf 242.2 / 87
p0 1846 ± 1.42
2000
1950
1900
1850
1800

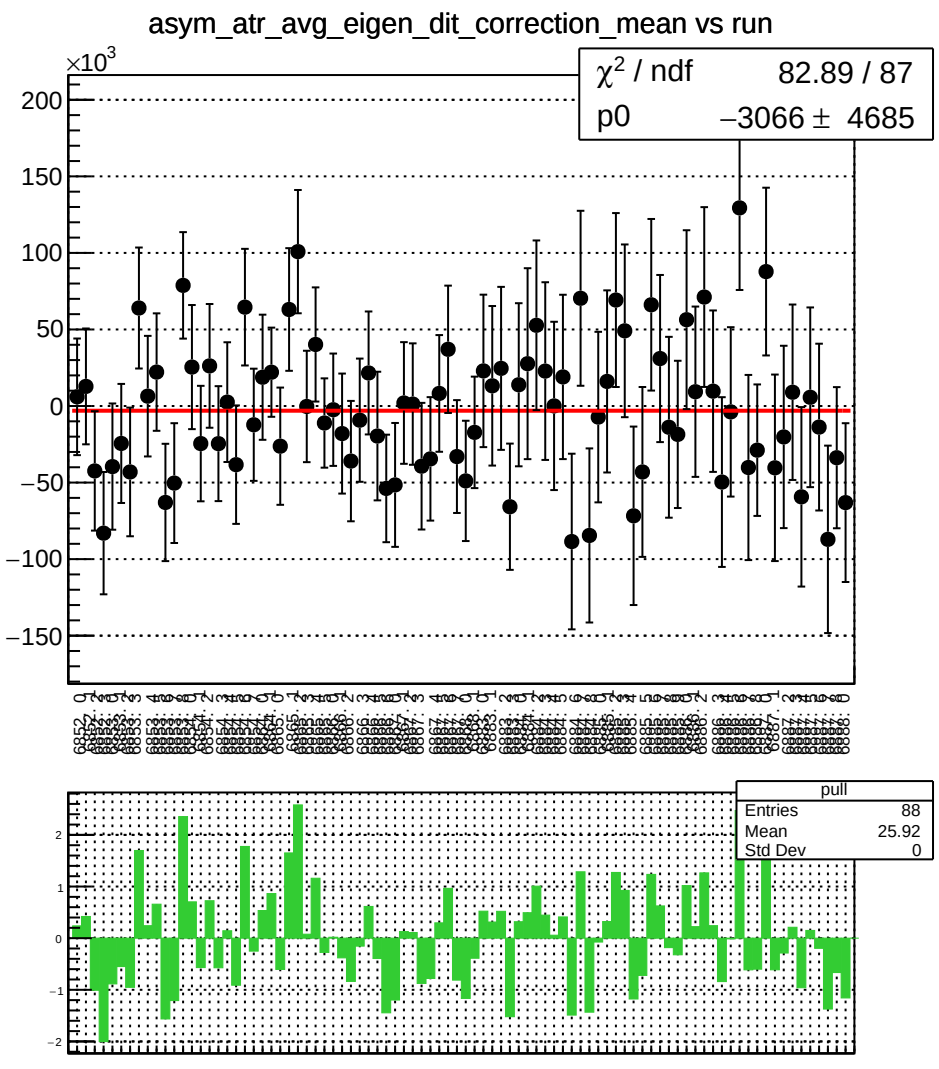

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.89 / 87
p0 −3066 ± 4685
pull
Entries 88
Mean 25.92
Std Dev 0

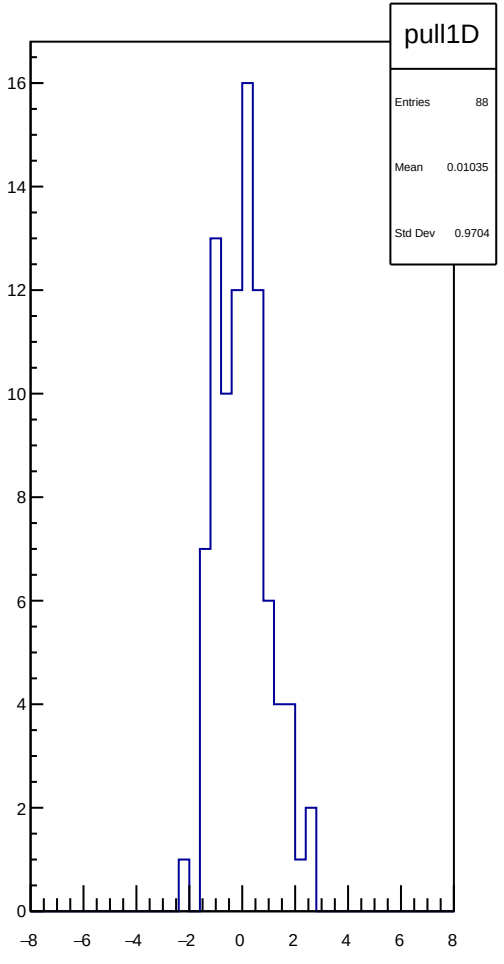

pull1D
Entries 88
Mean 0.01035
Std Dev 0.9704

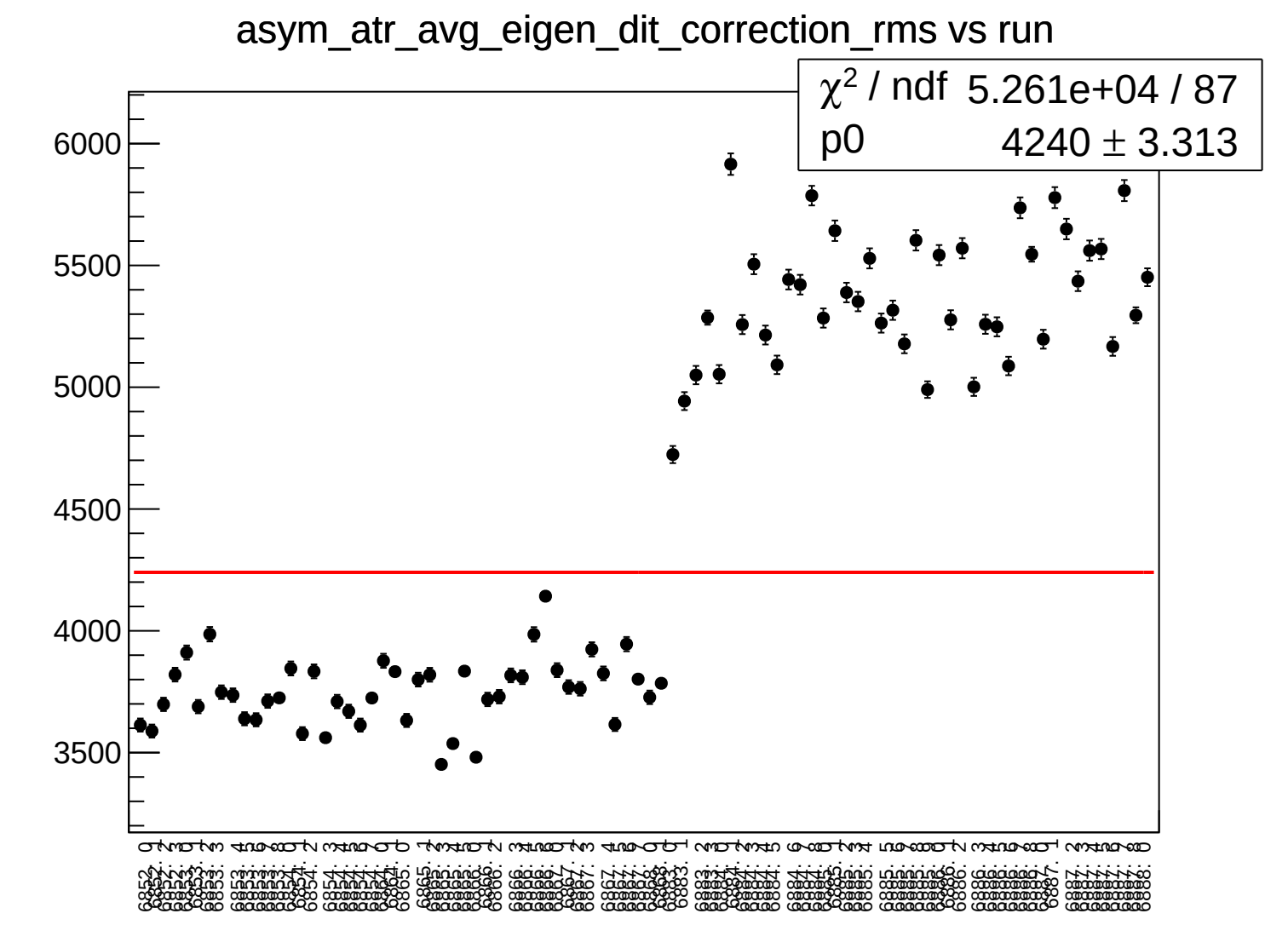

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 5.261e+04 / 87
p0 4240 ± 3.313
6000
5500
5000
4500
4000
3500

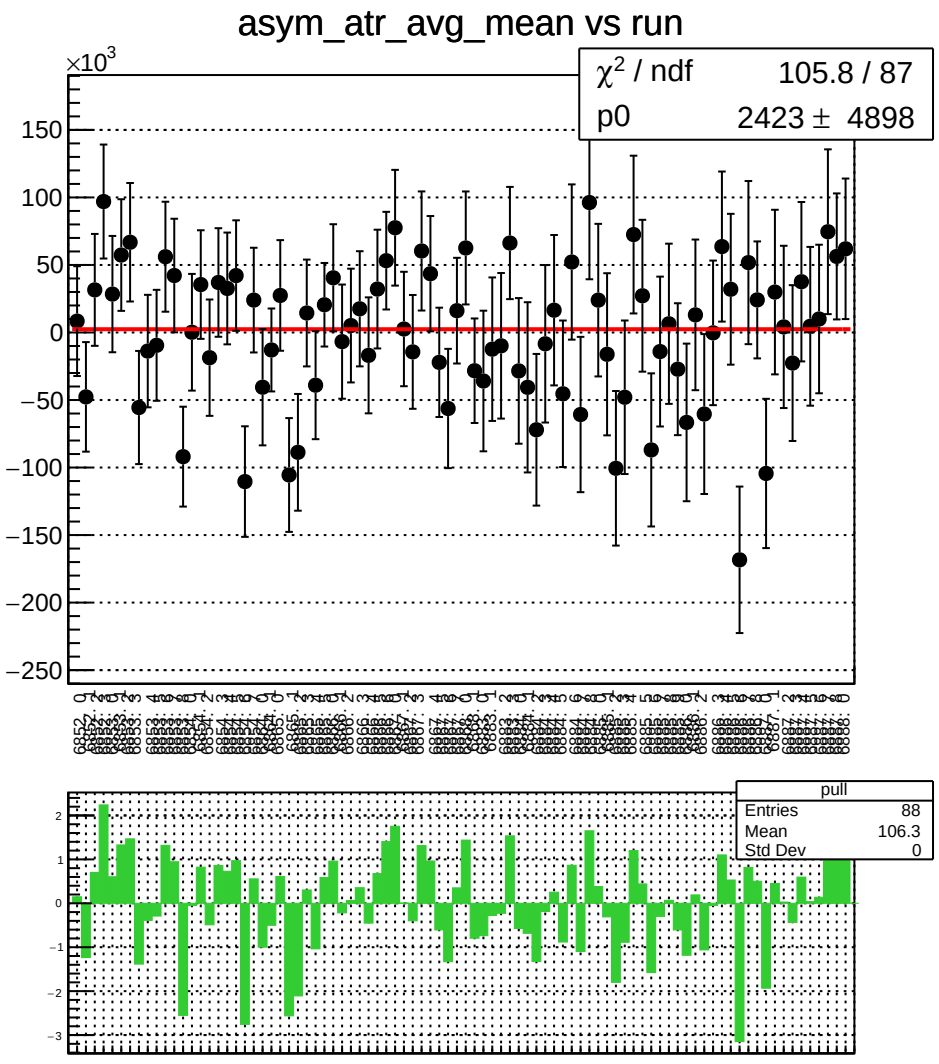

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 90.32 / 87
p0 −1355 ± 2008
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 952.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean −0.003751
Std Dev 1.013
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

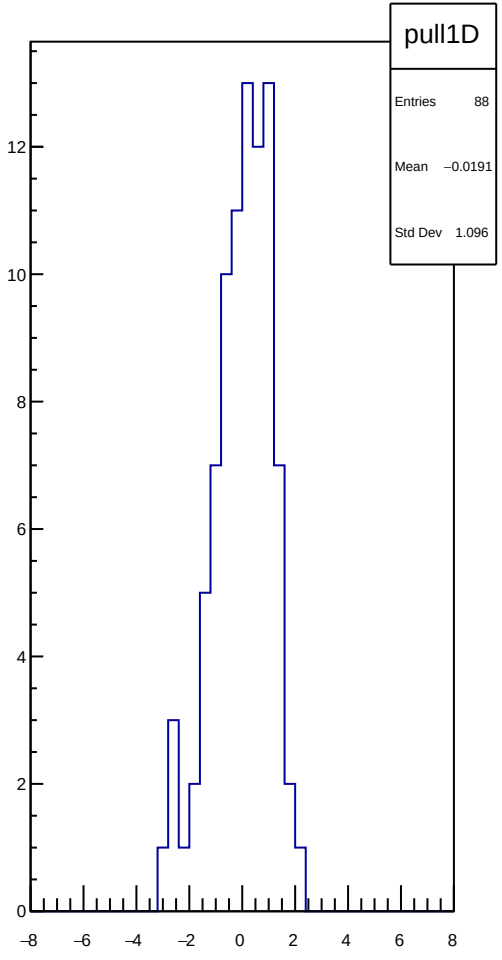

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 242.2 / 87
p0 1846 ± 1.42
2000
1950
1900
1850
1800

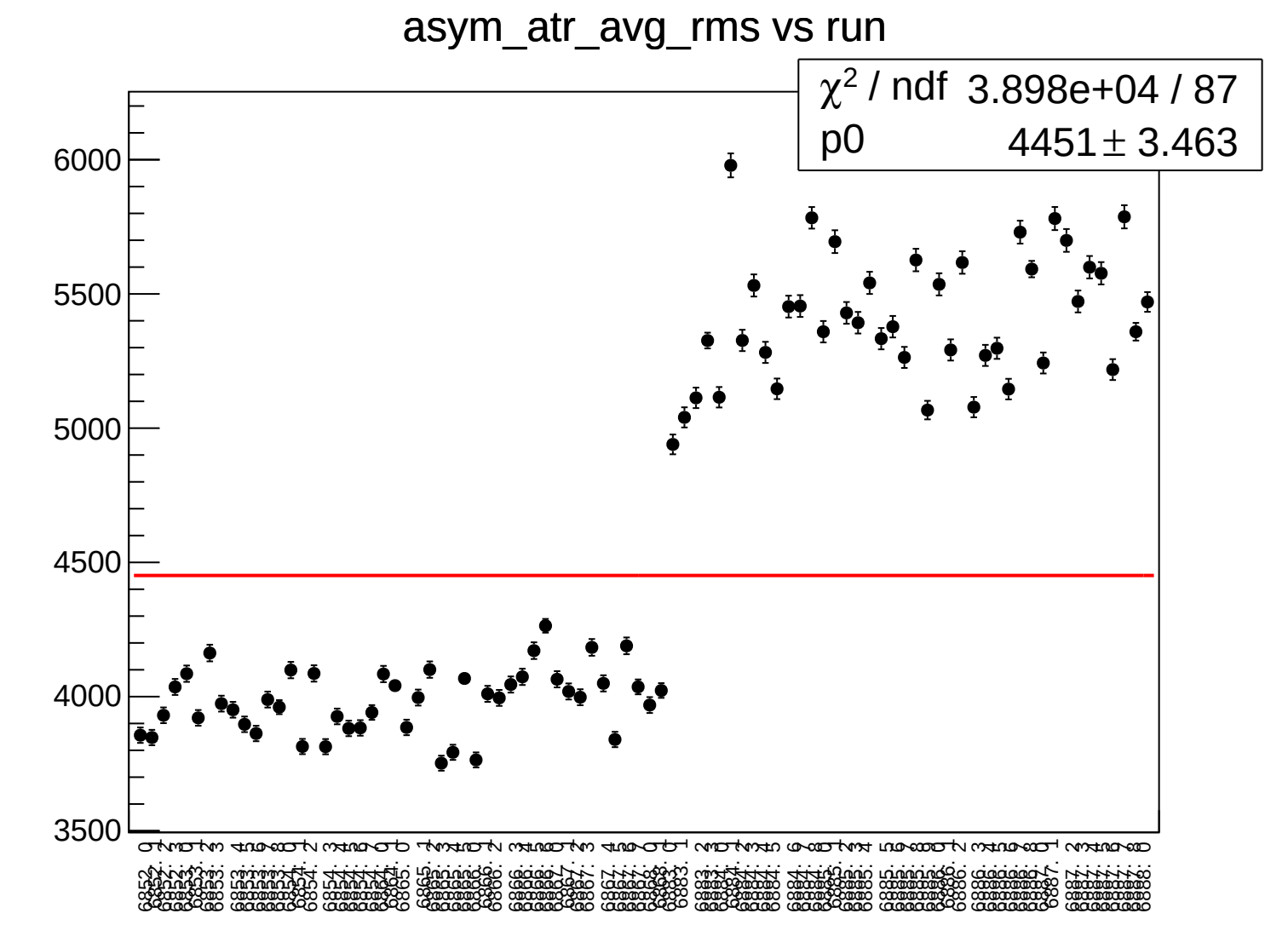

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.89 / 87
p0 −3066 ± 4685
200
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 25.92
Std Dev 0
2
1
0
−1
−2

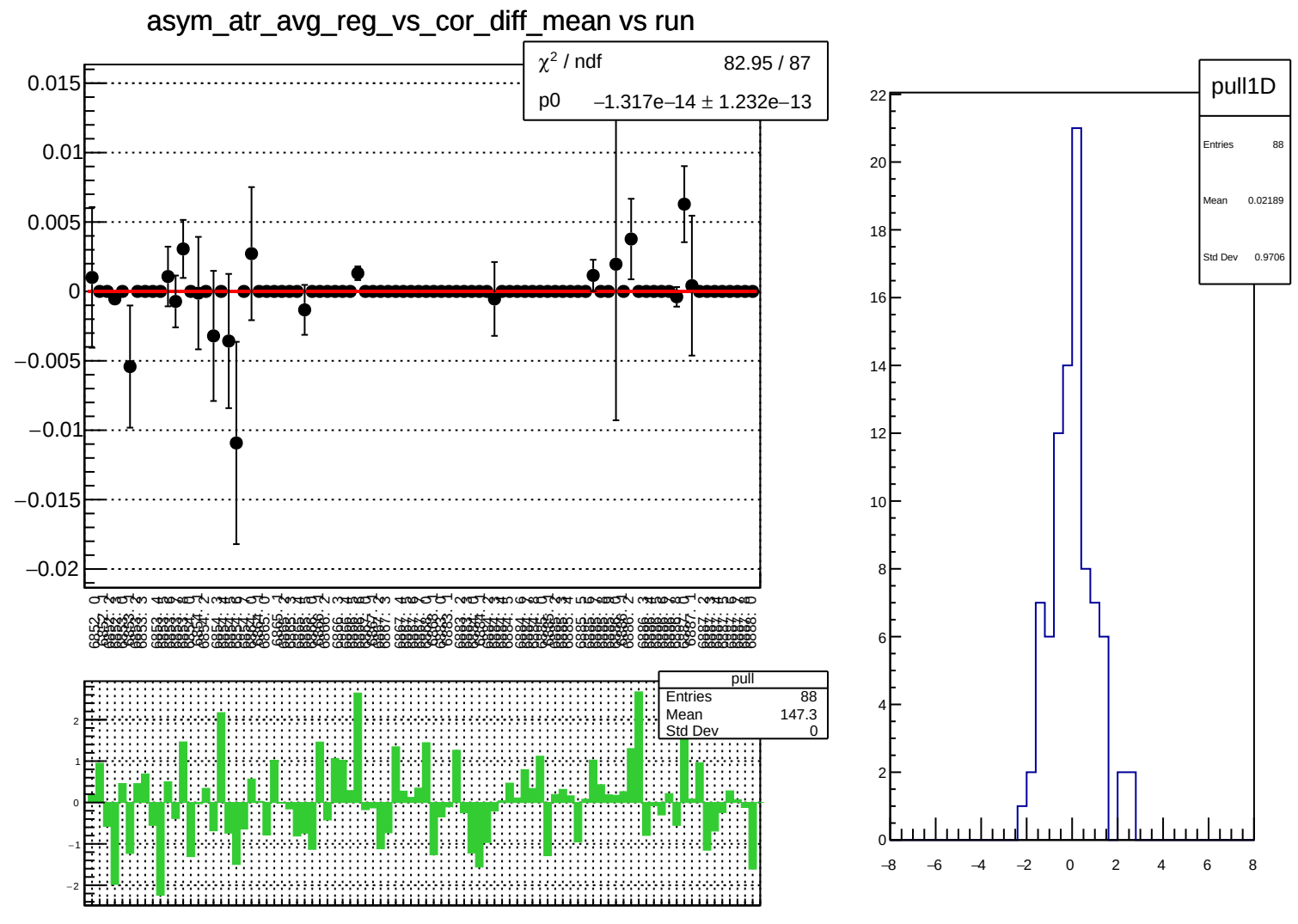

pull1D
Entries 88
Mean 0.01035
Std Dev 0.9704
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

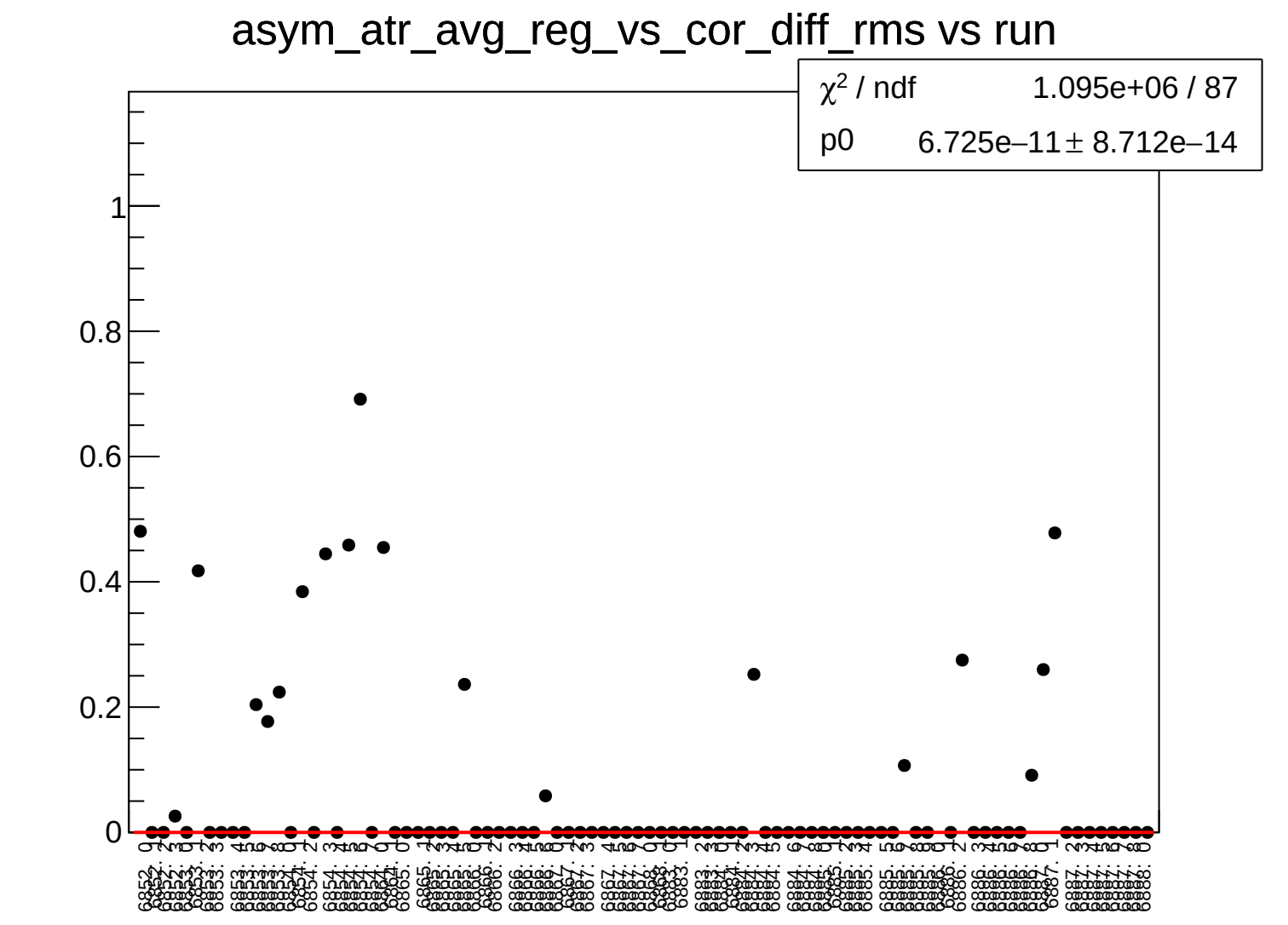

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.261e+04 / 87
p0 4240 ± 3.313
6000
5500
5000
4500
4000
3500

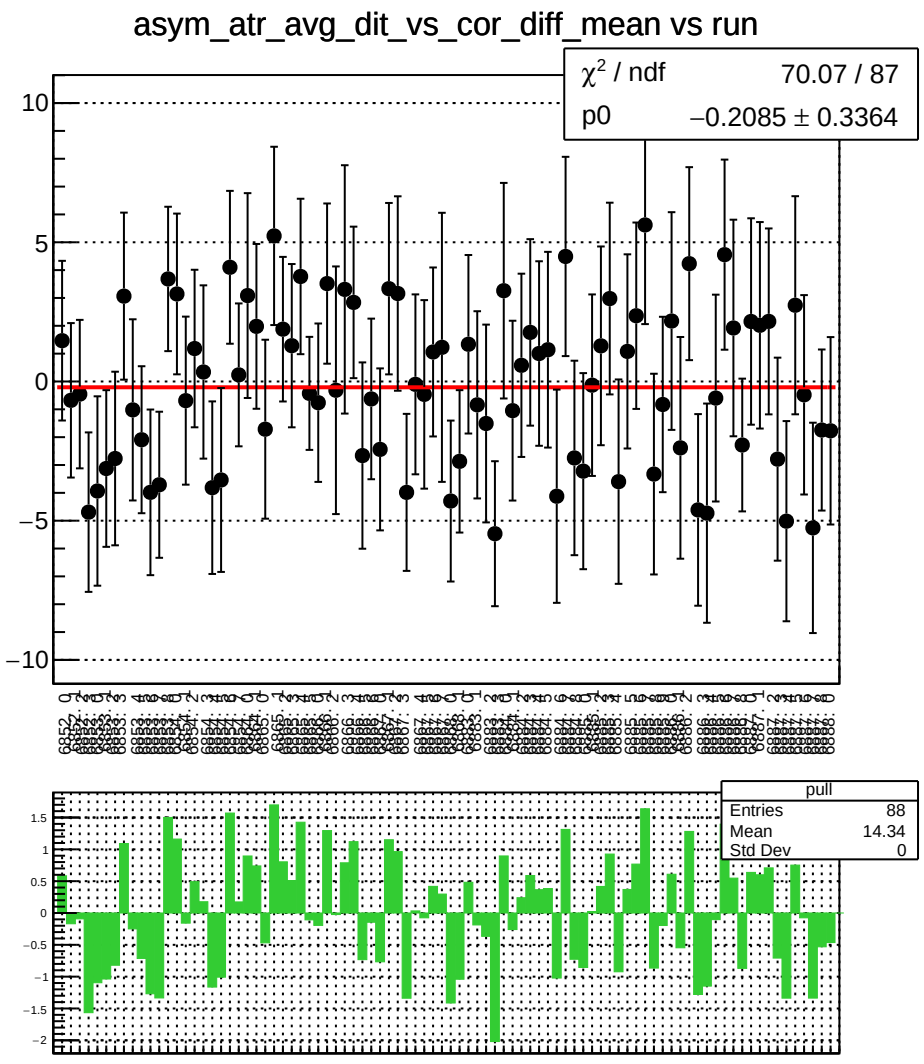

asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 105.8 / 87
p0 2423 ± 4898
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 88
Mean 106.3
Std Dev 0
2
1
0
−1
−2
−3

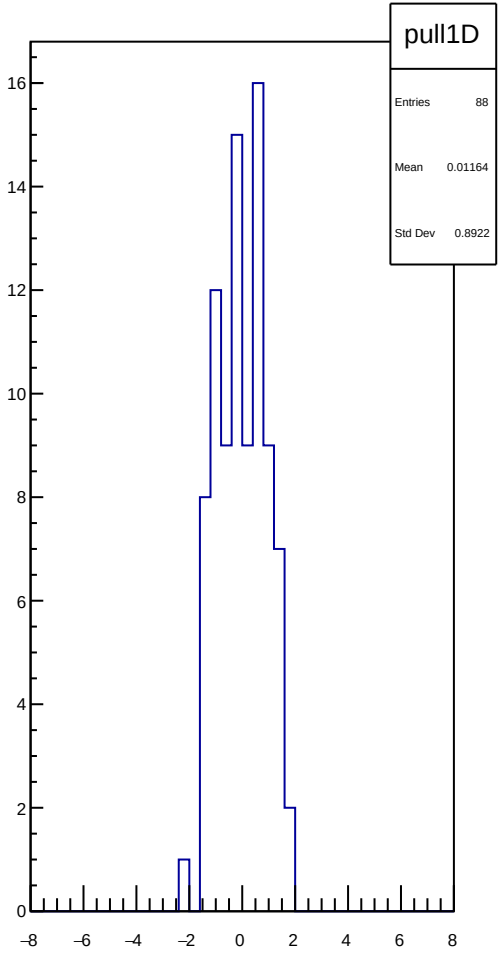

pull1D
Entries 88
Mean −0.0191
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

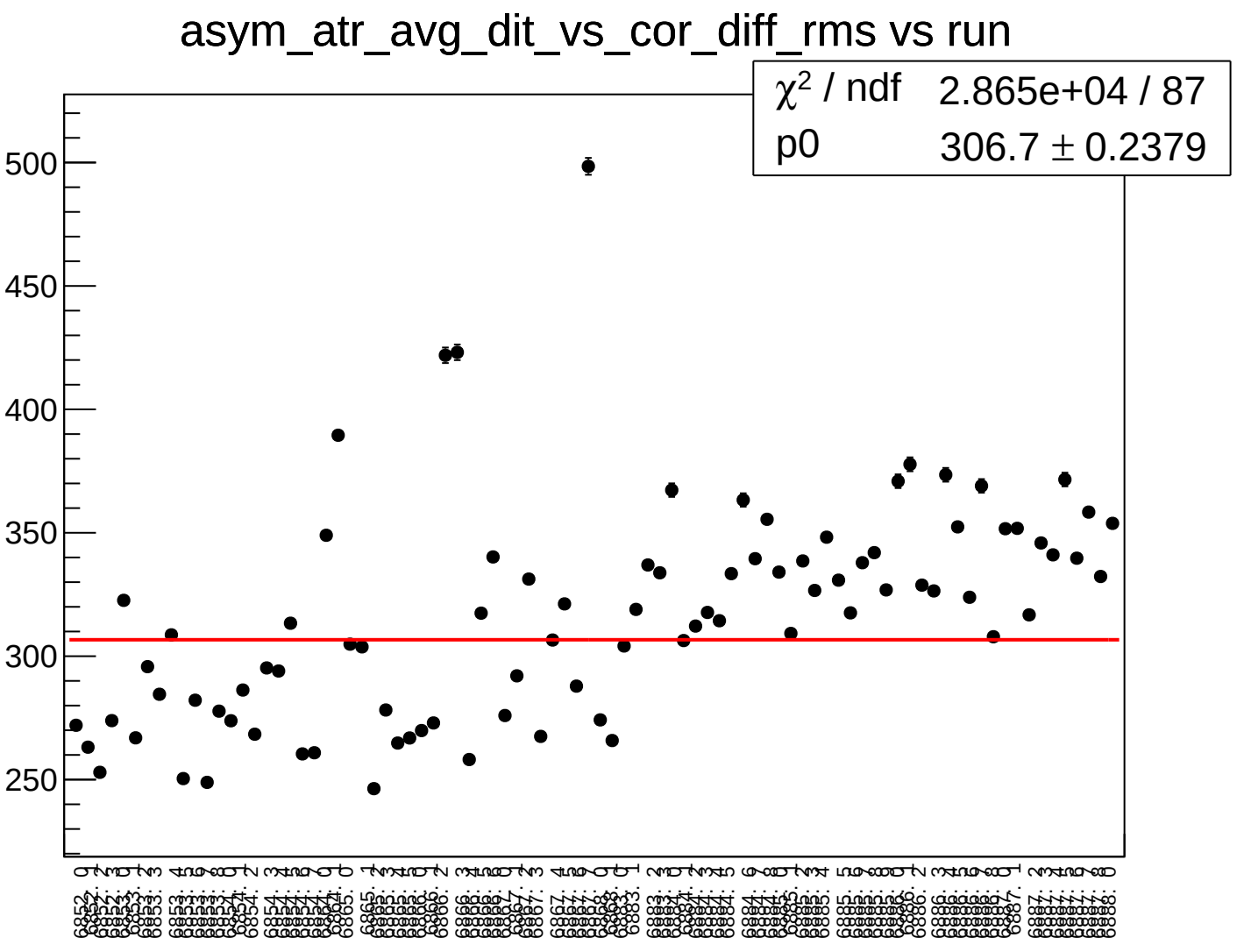

asym_atr_avg_rms vs run
χ² / ndf 3.898e+04 / 87
p0 4451 ± 3.463
6000
5500
5000
4500
4000
3500

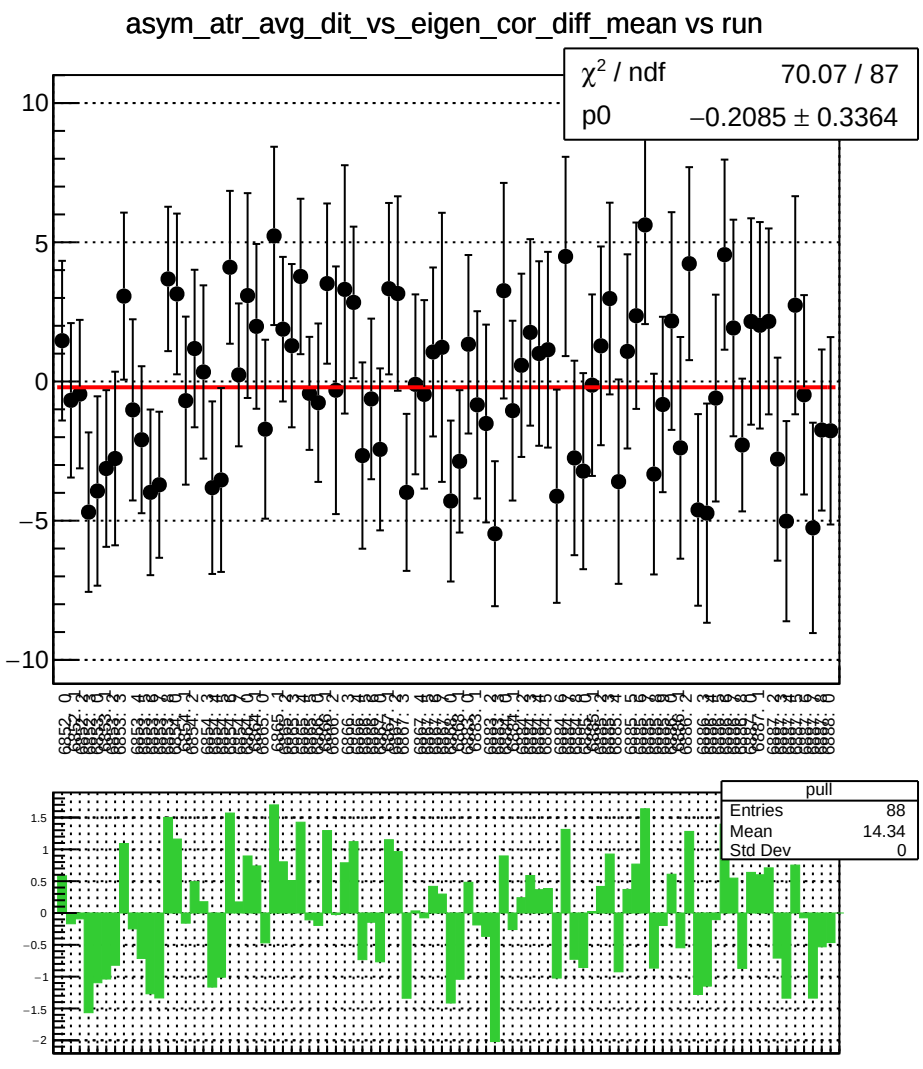

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.95 / 87
p0 −1.317e−14 ± 1.232e−13
pull
Entries 88
Mean 147.3
Std Dev 0
pull1D
Entries 88
Mean 0.02189
Std Dev 0.9706

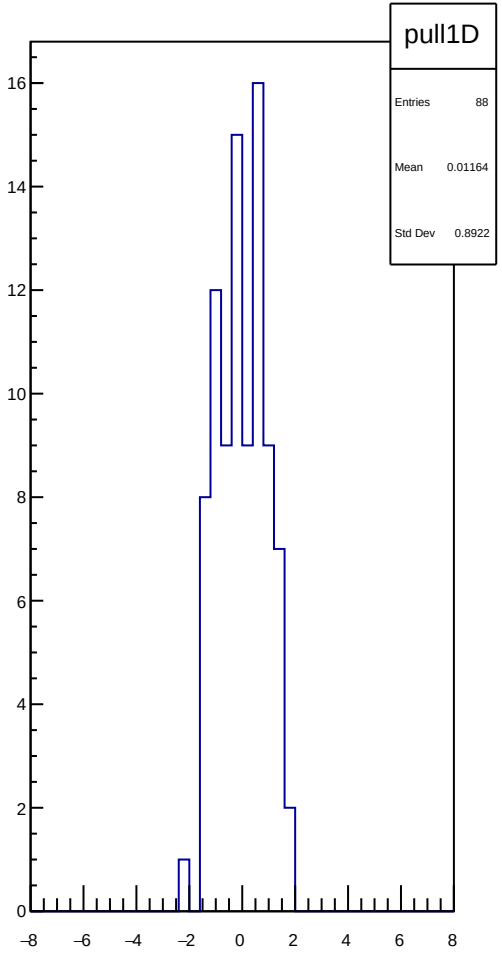

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.095e+06 / 87
p0 6.725e−11 ± 8.712e−14
1
0.8
0.6
0.4
0.2
0

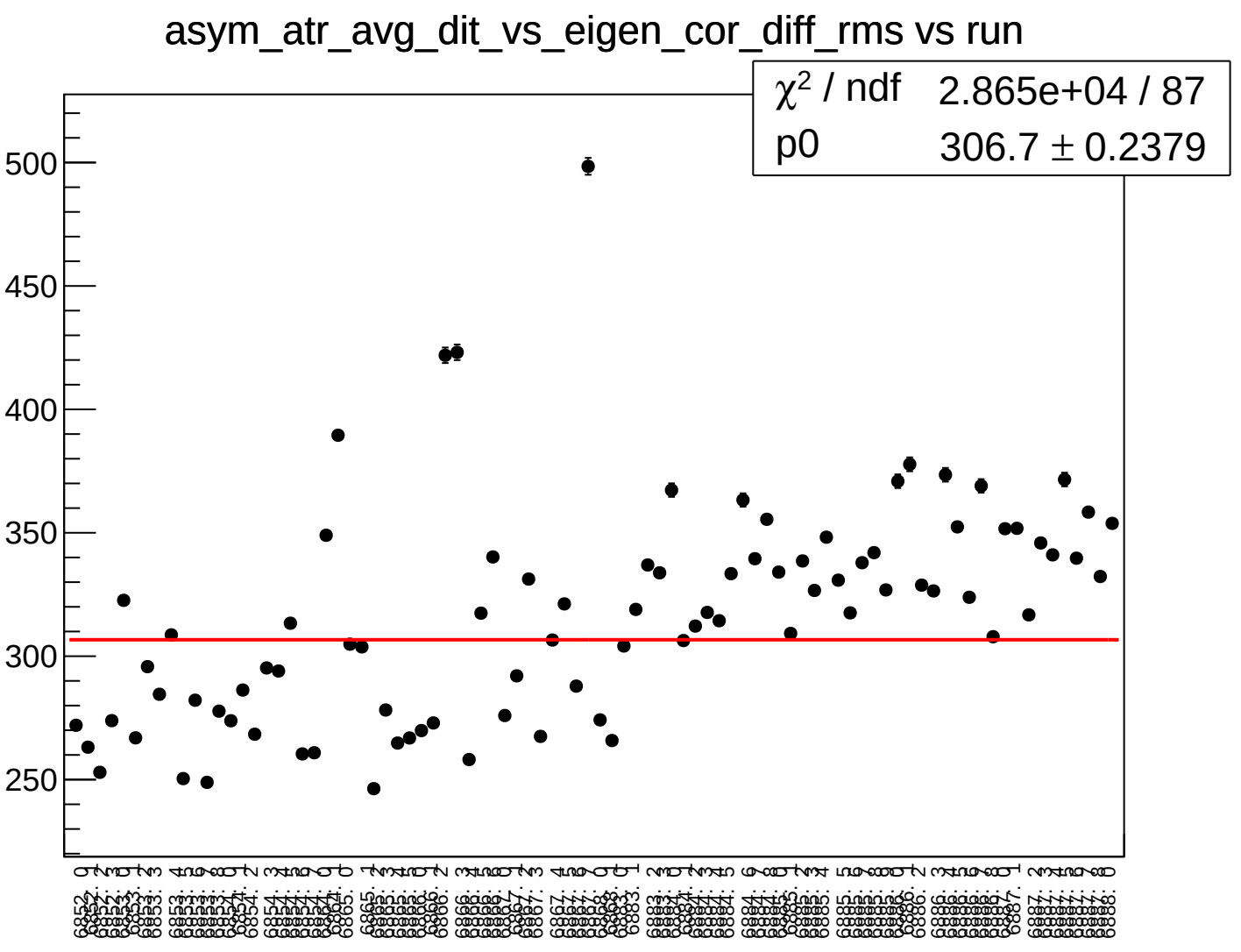

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.07 / 87
p0 −0.2085 ± 0.3364
pull
Entries 88
Mean 14.34
Std Dev 0

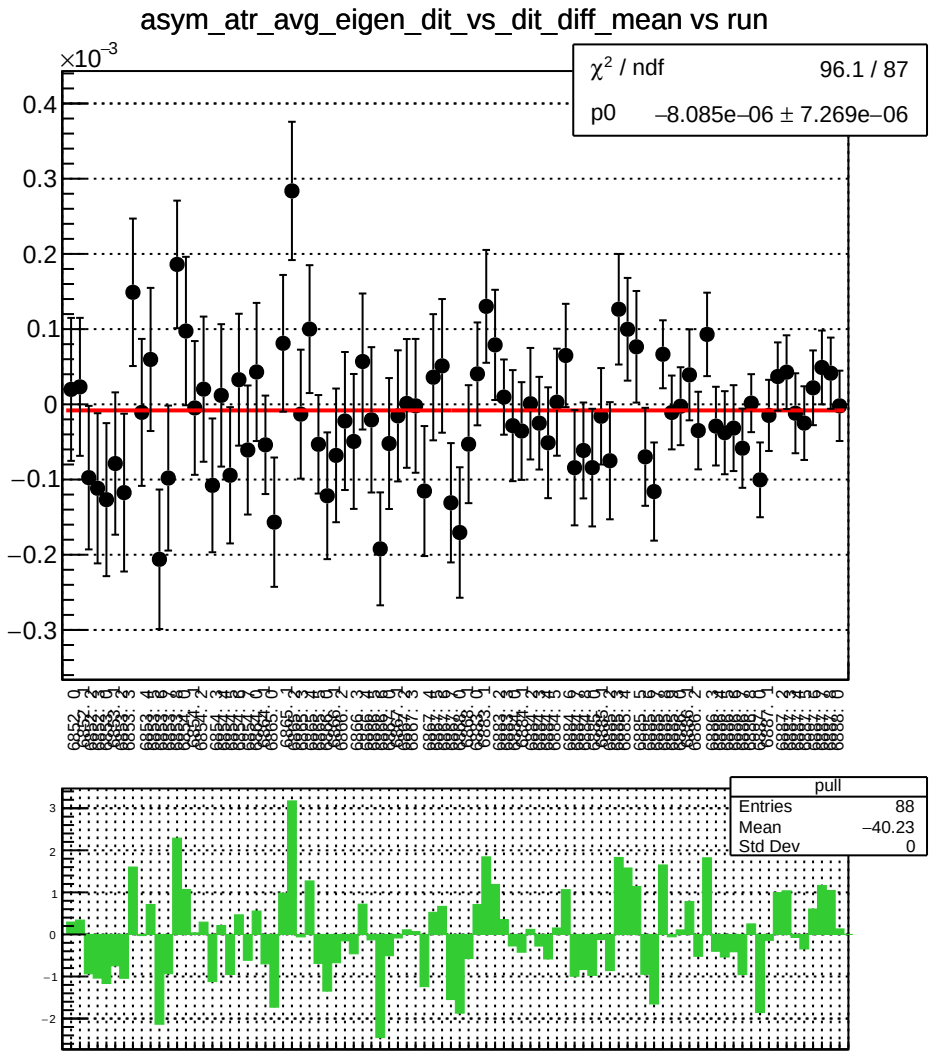

pull1D
Entries 88
Mean 0.01164
Std Dev 0.8922

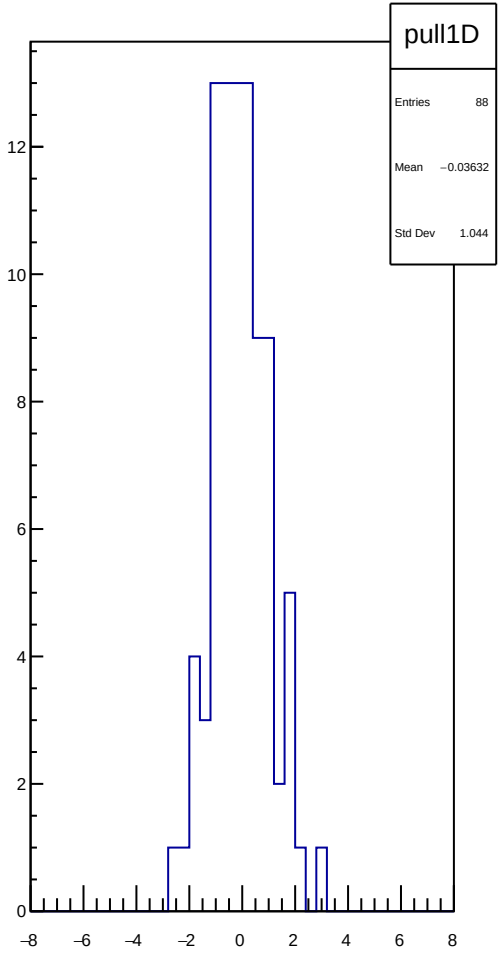

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.865e+04 / 87
p0 306.7 ± 0.2379
500
450
400
350
300
250

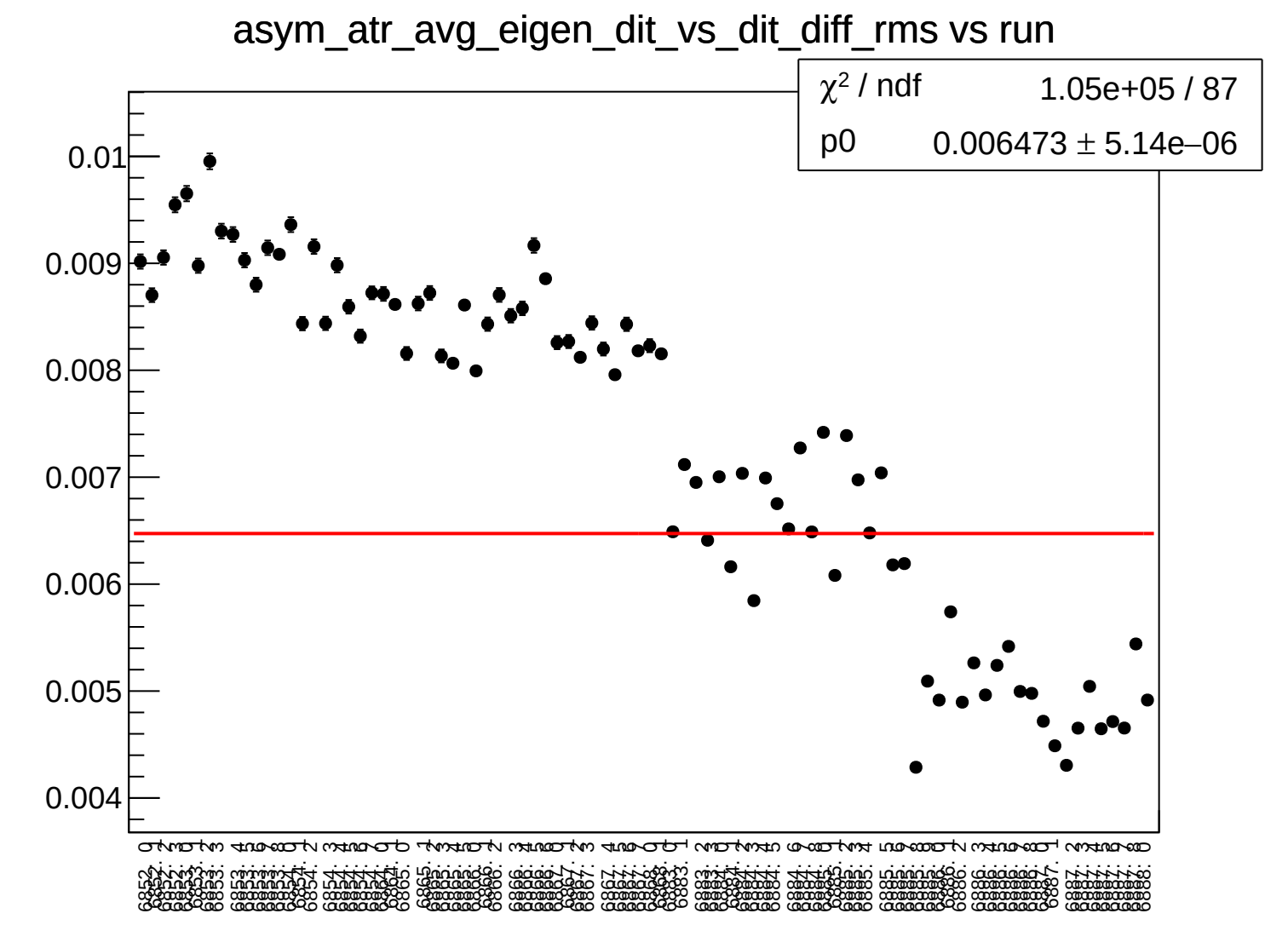

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.07 / 87
p0 −0.2085 ± 0.3364
pull
Entries 88
Mean 14.34
Std Dev 0

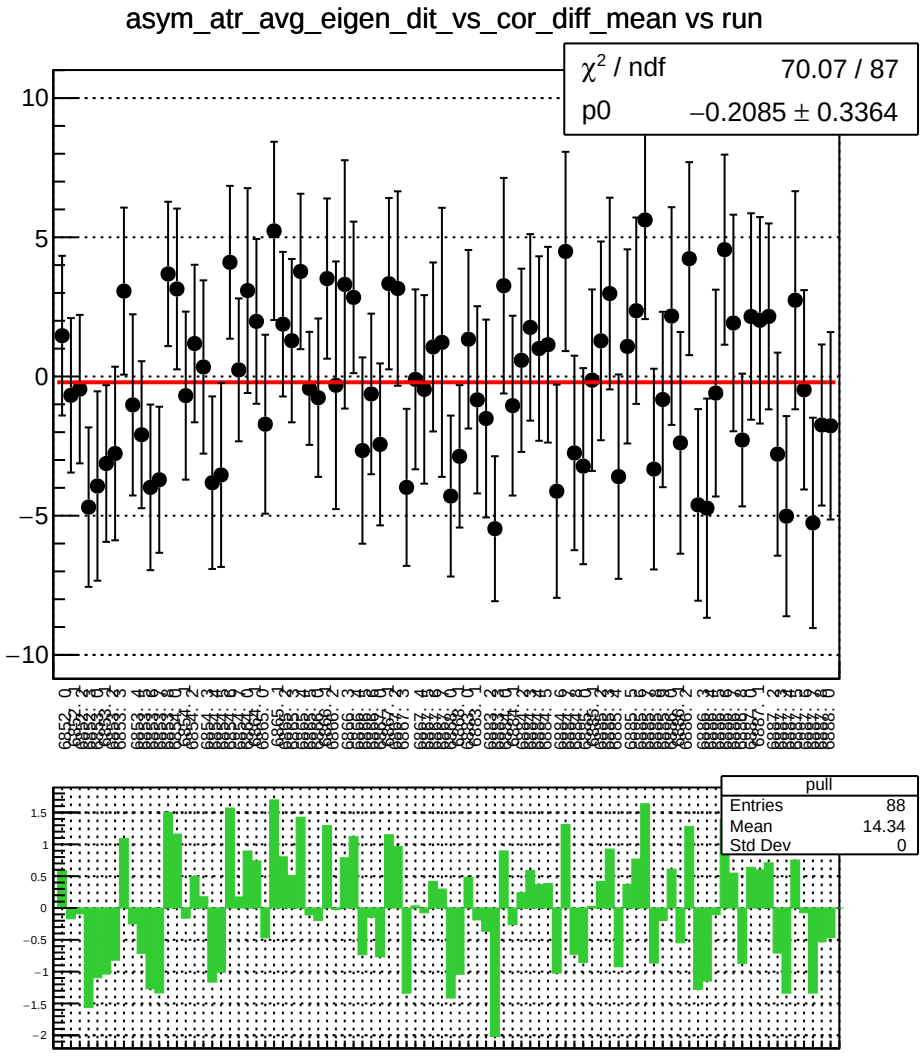

pull1D
Entries 88
Mean 0.01164
Std Dev 0.8922

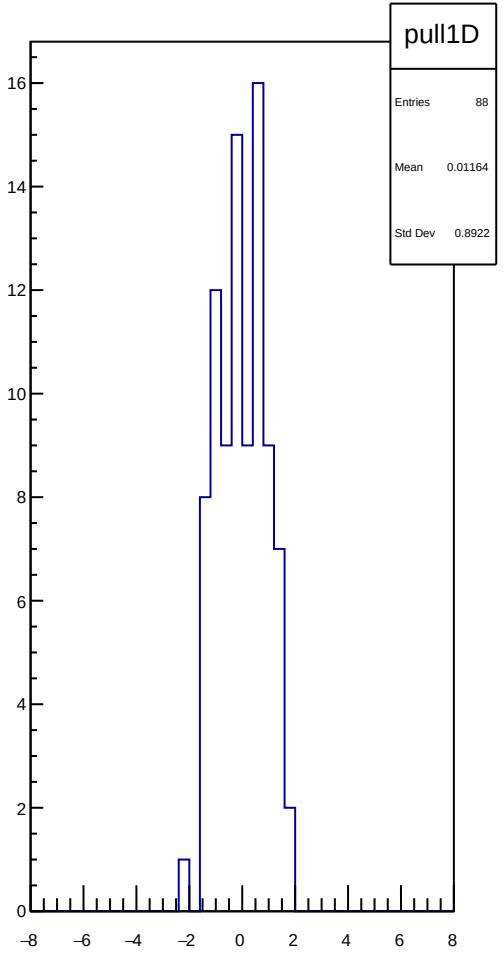

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.865e+04 / 87
p0 306.7 ± 0.2379
500
450
400
350
300
250

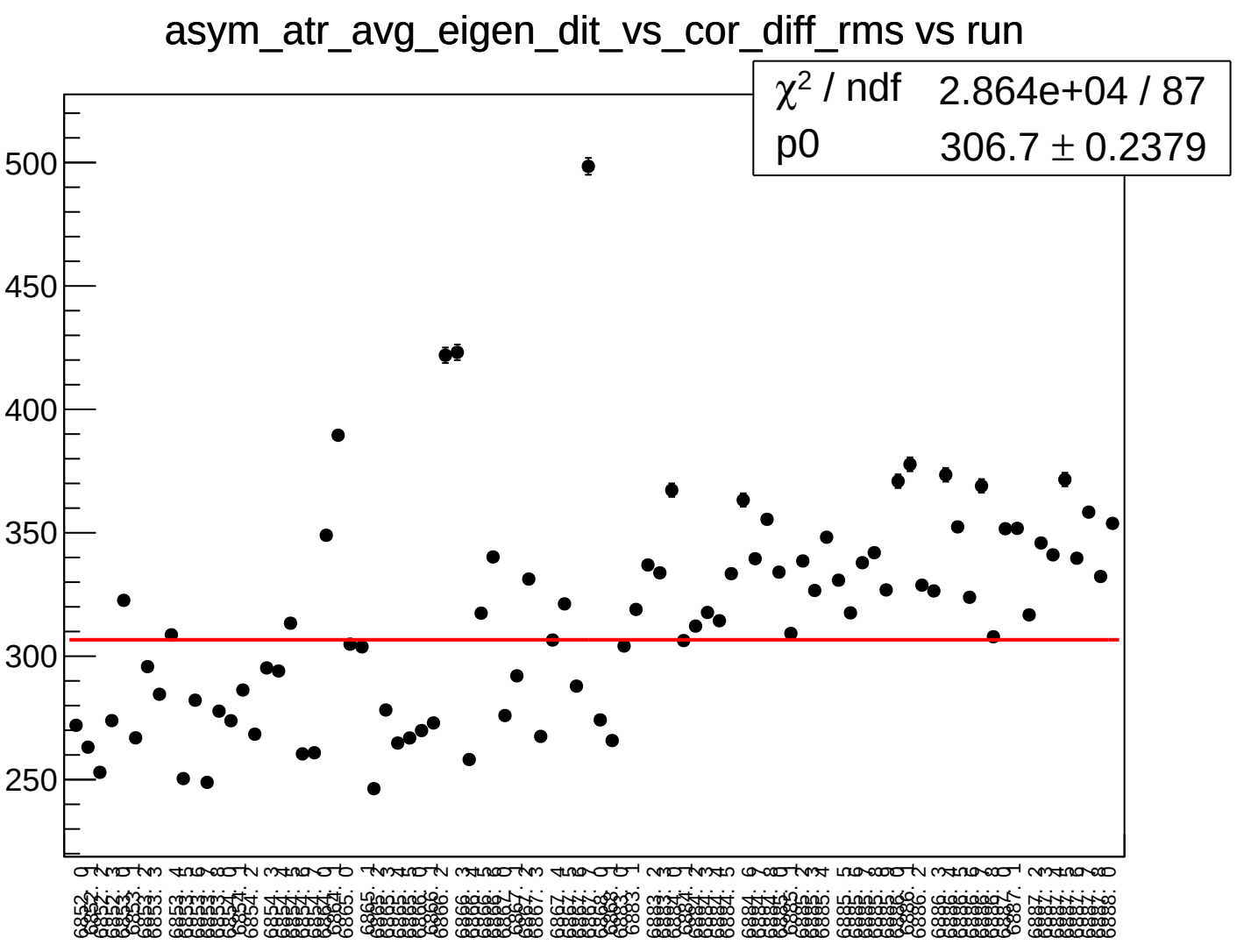

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.1 / 87
p0 −8.085e−06 ± 7.269e−06
pull
Entries 88
Mean −40.23
Std Dev 0

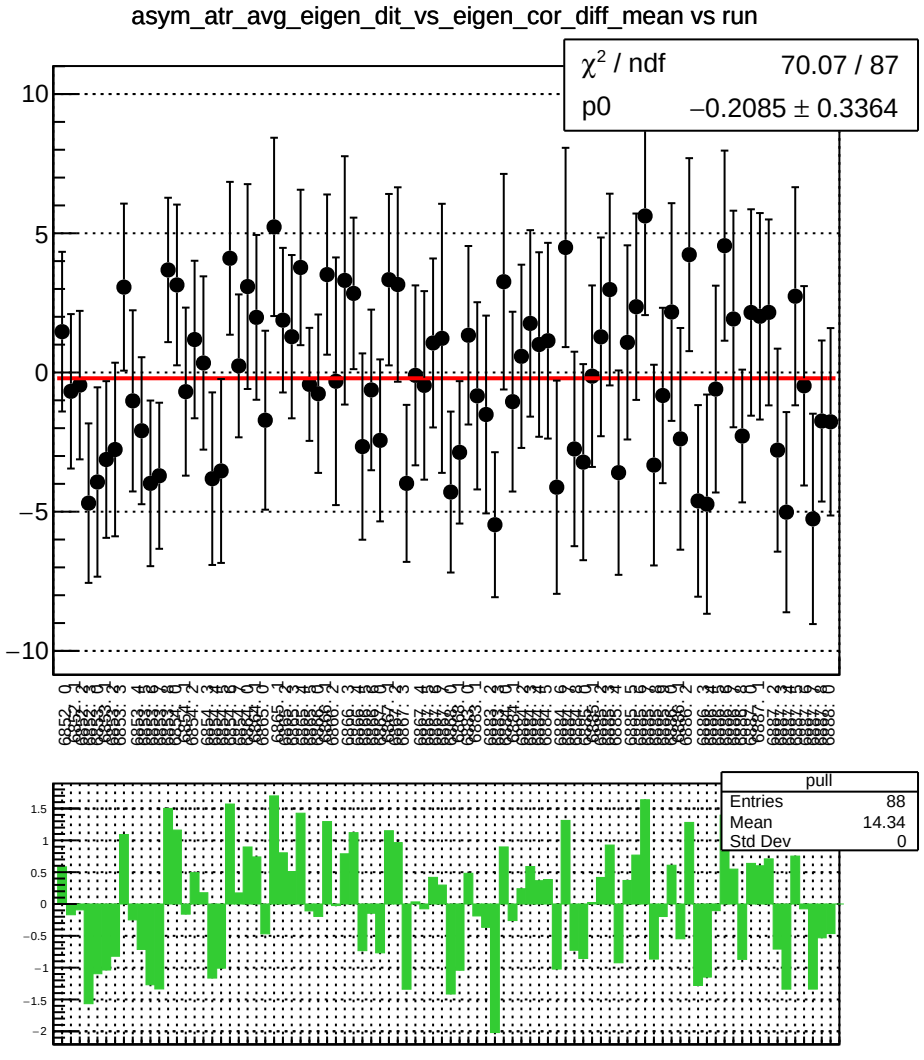

pull1D
Entries 88
Mean −0.03632
Std Dev 1.044

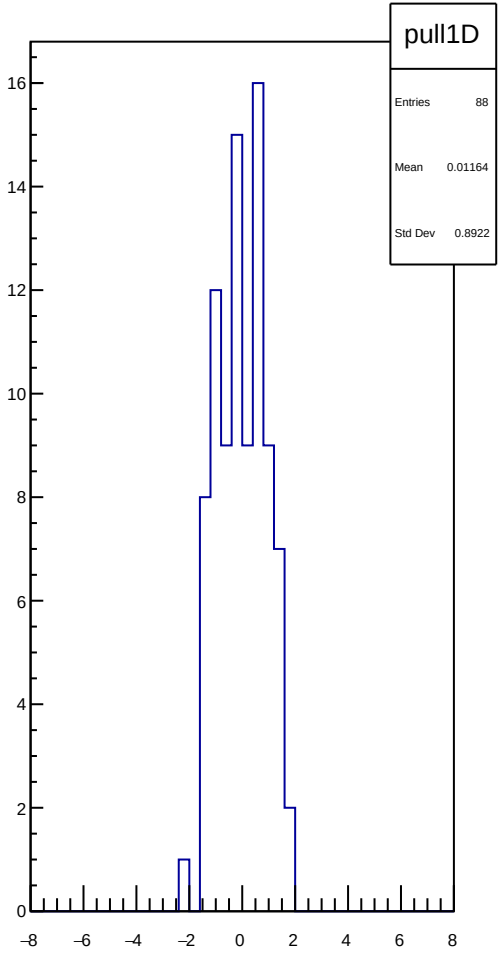

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.05e+05 / 87
p0 0.006473 ± 5.14e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

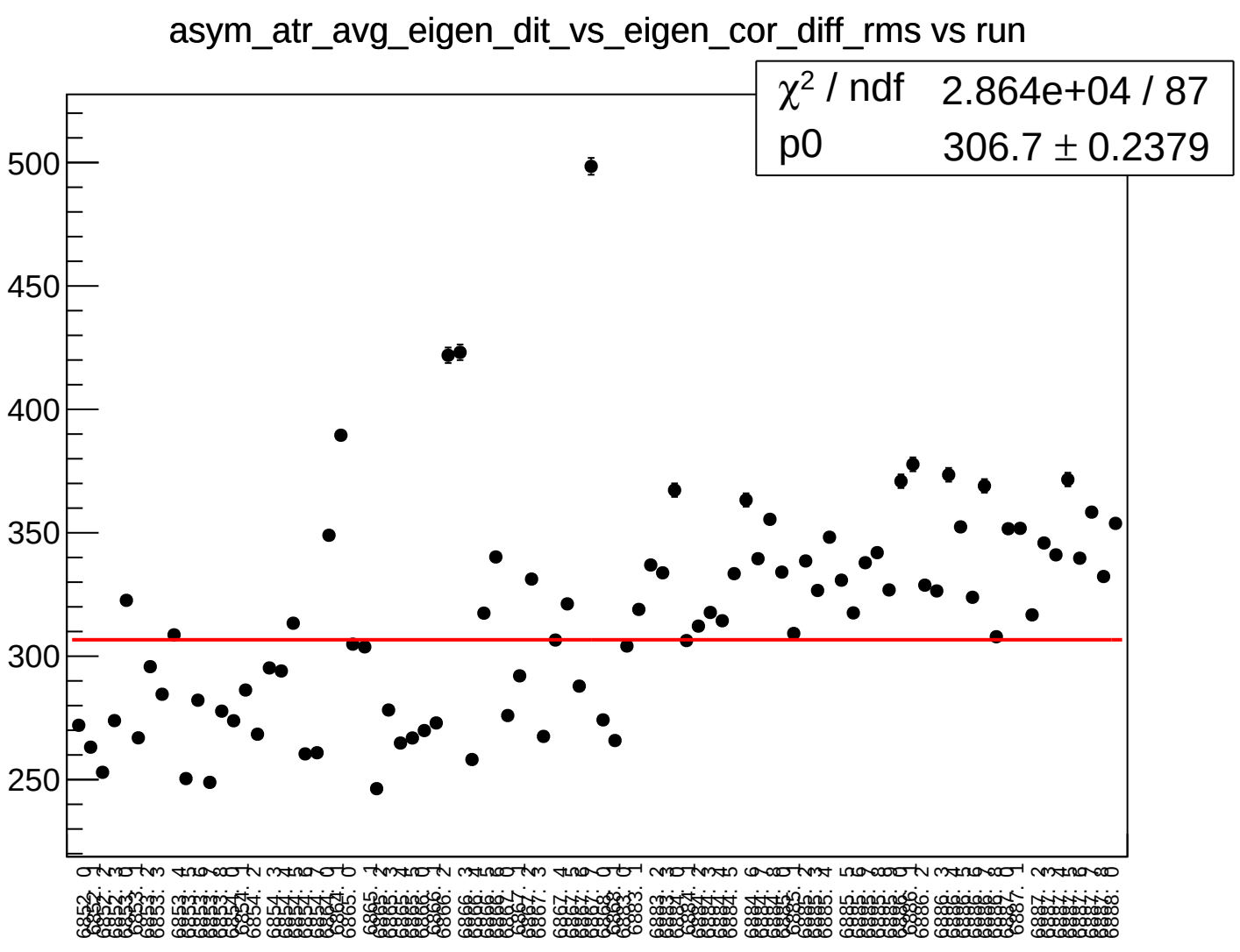

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.07 / 87
p0 −0.2085 ± 0.3364
pull
Entries 88
Mean 14.34
Std Dev 0

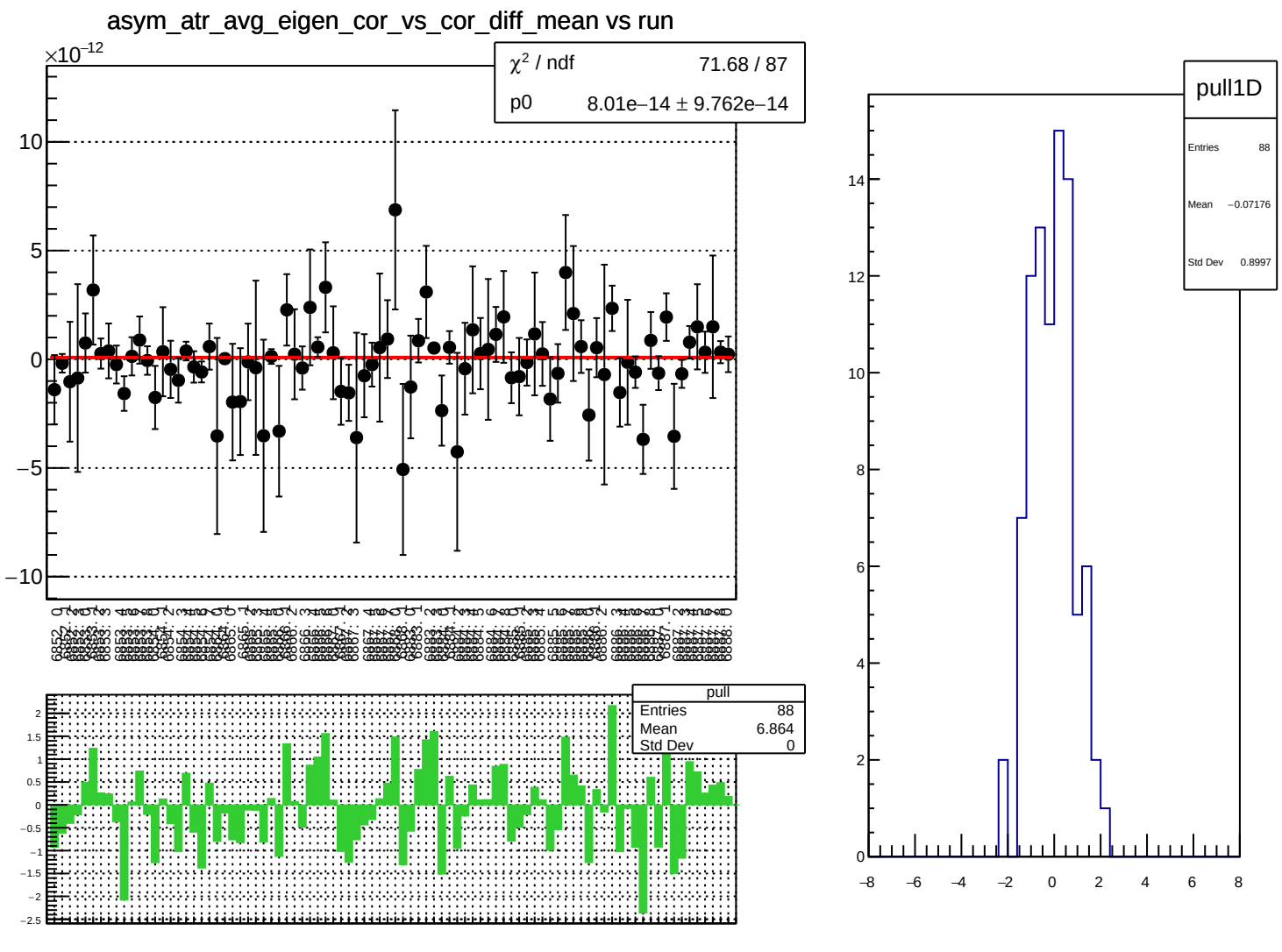

pull1D
Entries 88
Mean 0.01164
Std Dev 0.8922

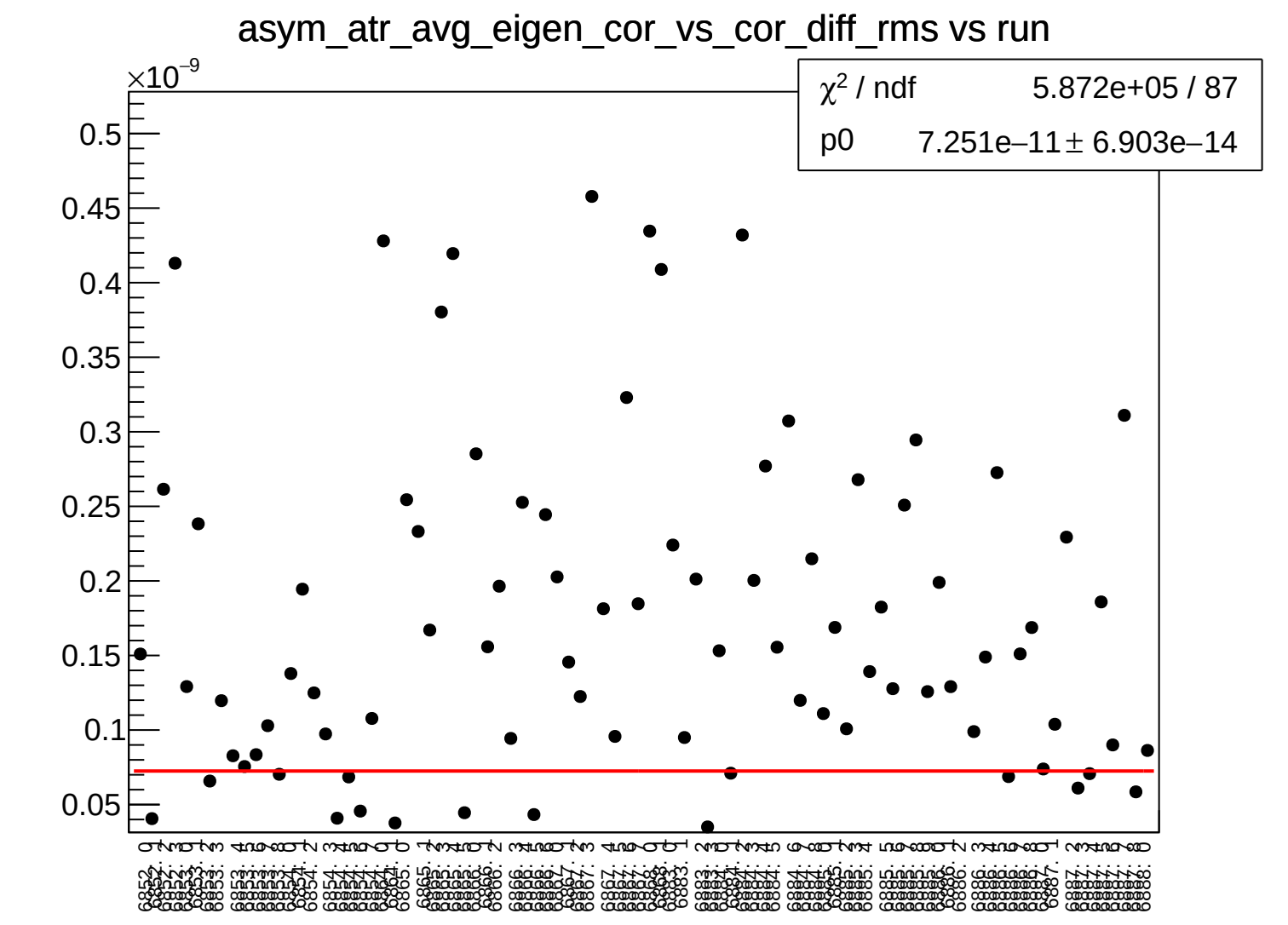

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.864e+04 / 87
p0 306.7 ± 0.2379
500
450
400
350
300
250

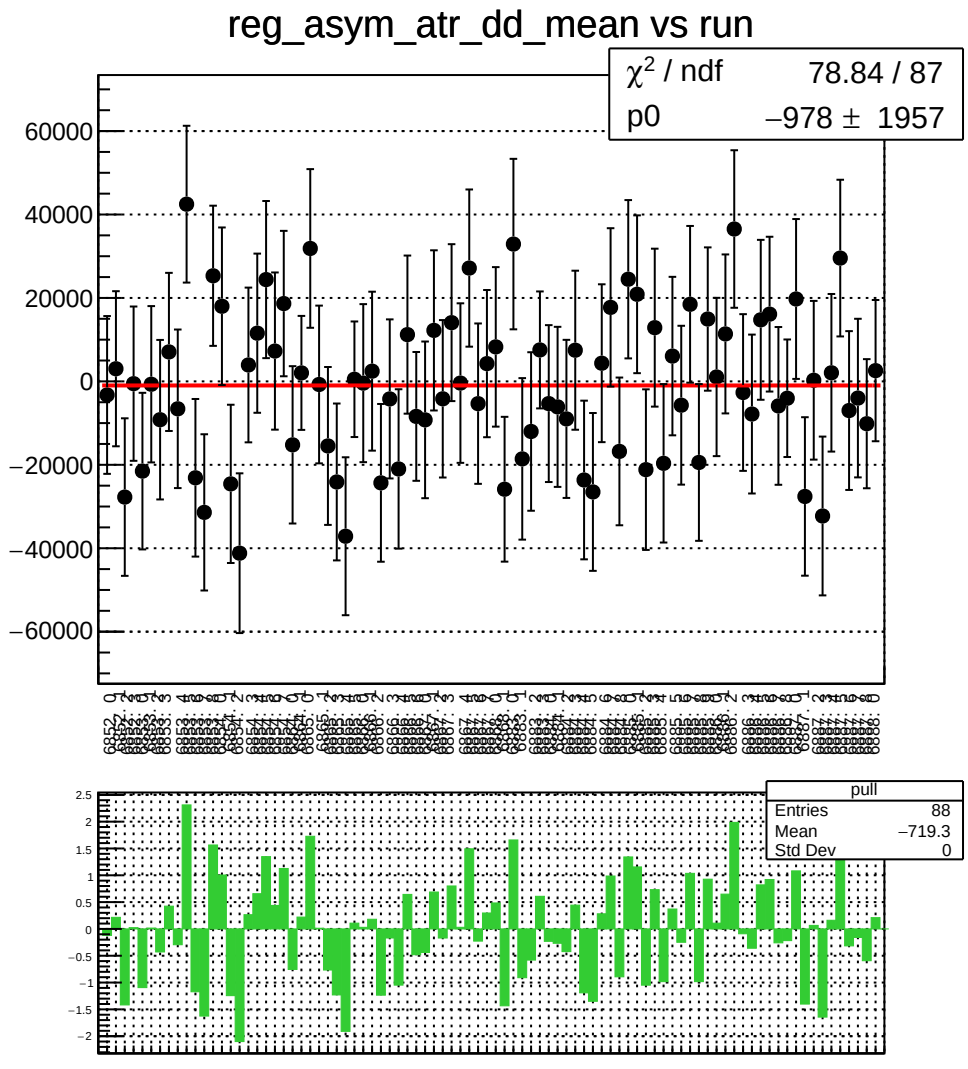

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.07 / 87
p0 −0.2085 ± 0.3364
pull
Entries 88
Mean 14.34
Std Dev 0

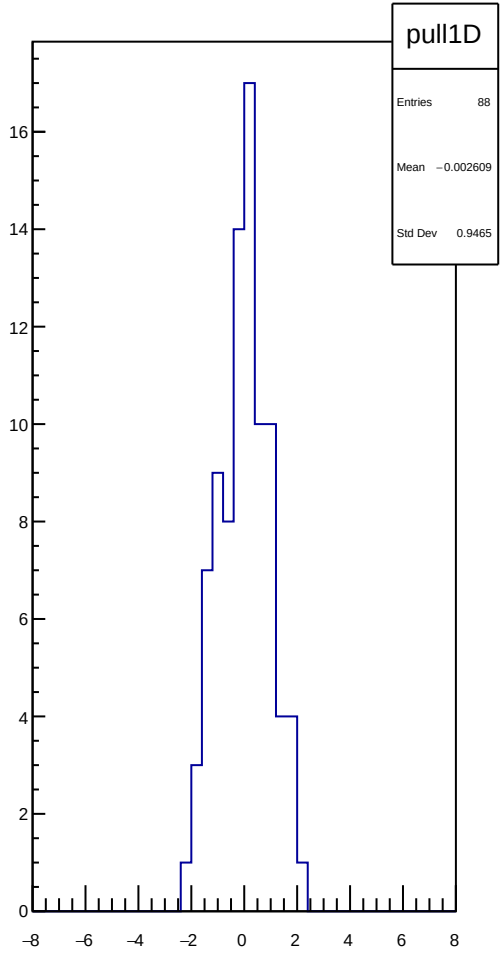

pull1D
Entries 88
Mean 0.01164
Std Dev 0.8922

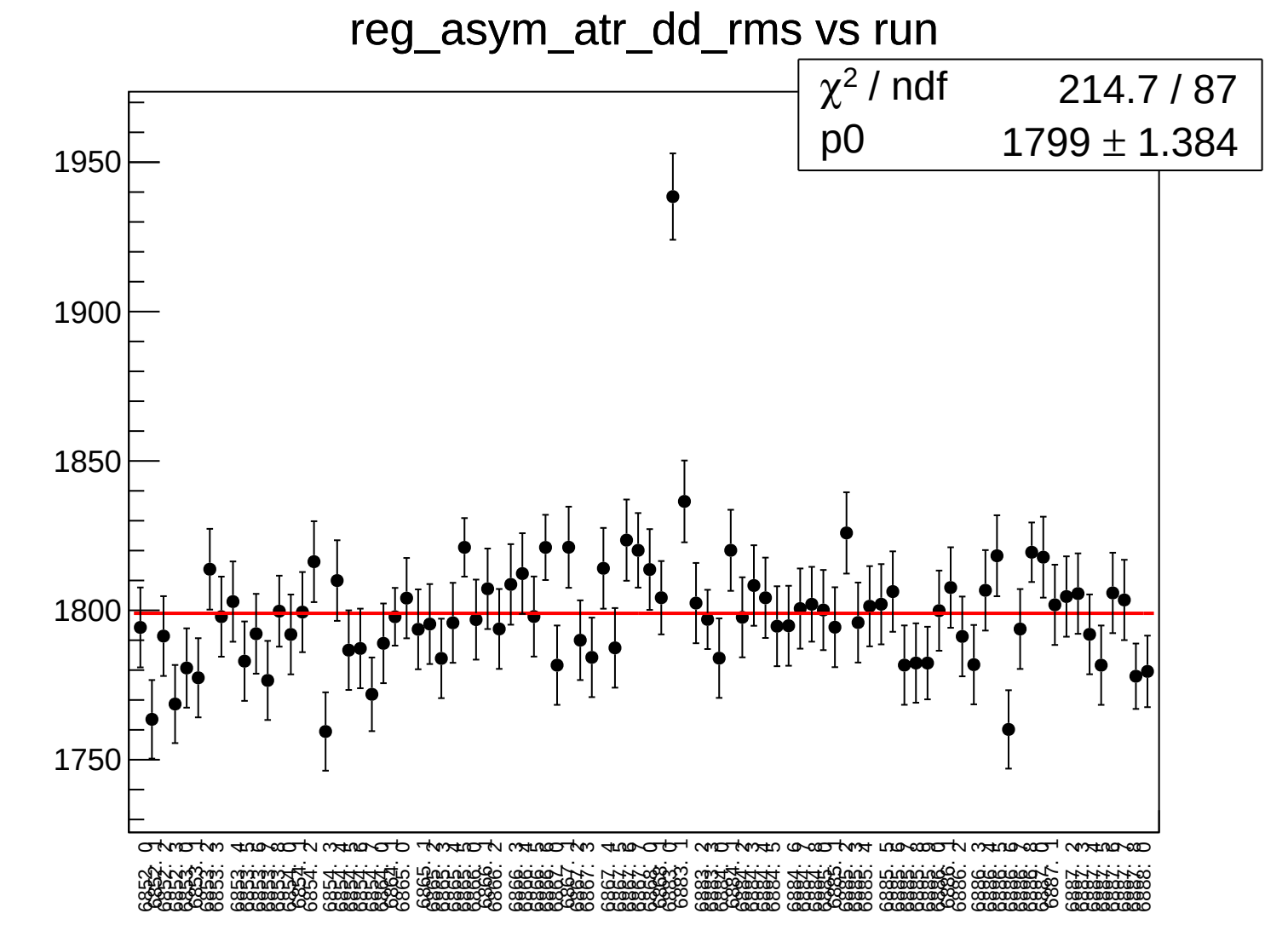

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.864e+04 / 87
p0 306.7 ± 0.2379
500
450
400
350
300
250

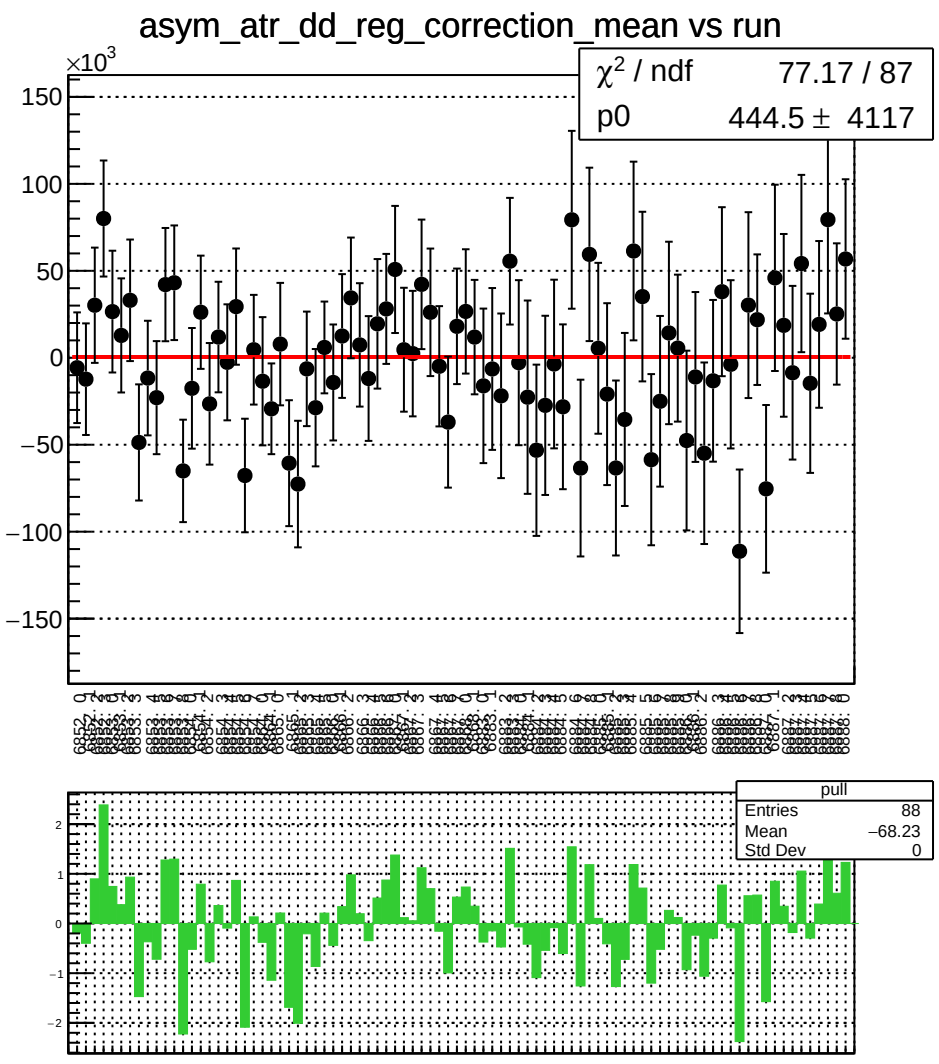

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.68 / 87
p0 8.01e−14 ± 9.762e−14
10
5
0
−5
−10
pull
Entries 88
Mean 6.864
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean −0.07176
Std Dev 0.8997
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

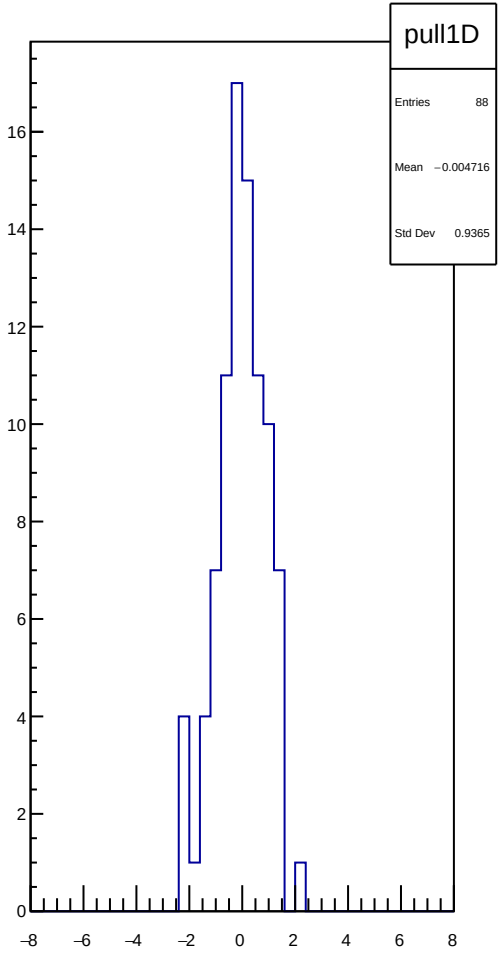

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.872e+05 / 87
p0 7.251e−11 ± 6.903e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

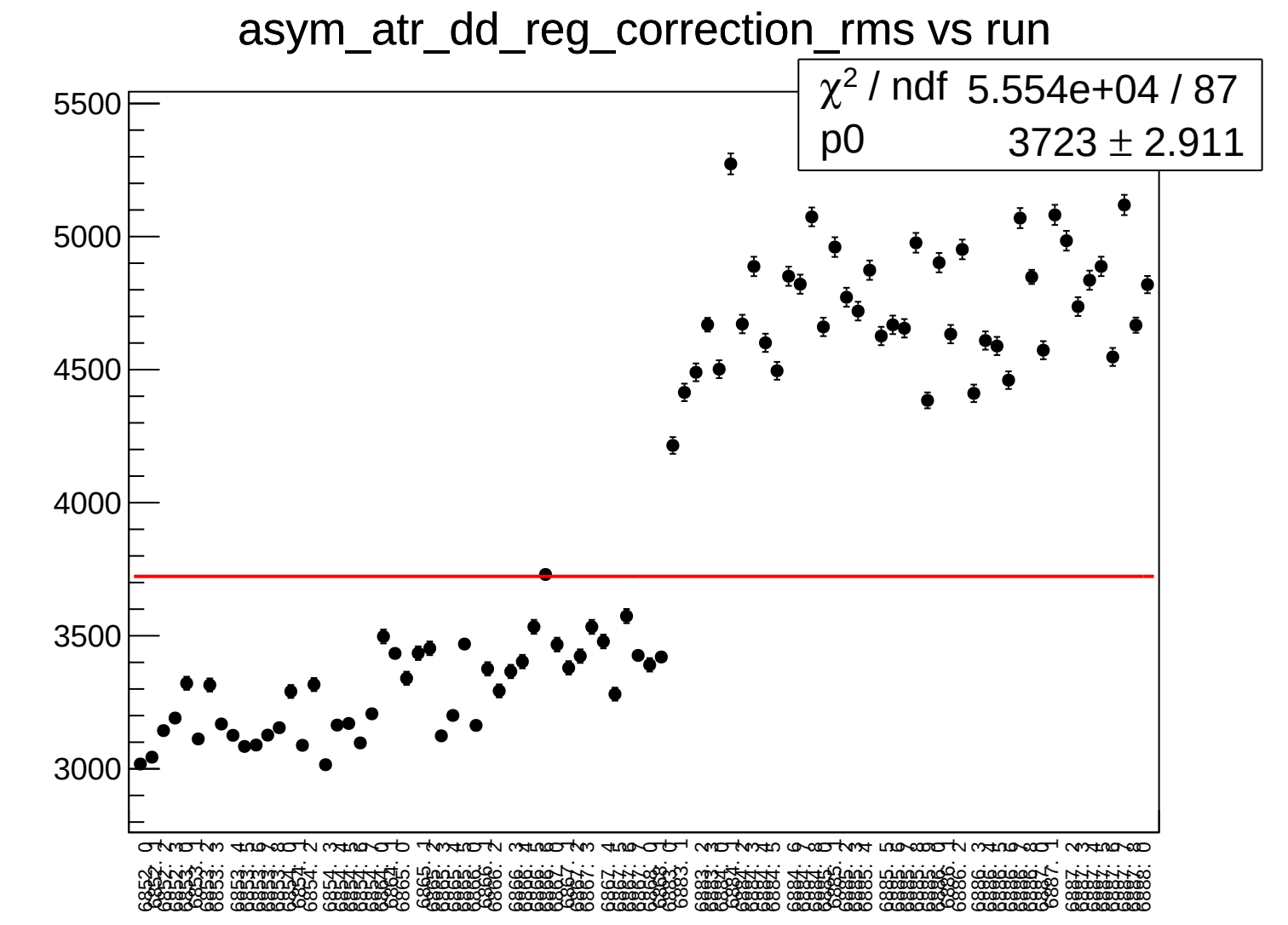

reg_asym_atr_dd_mean vs run
χ² / ndf 78.84 / 87
p0 −978 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −719.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

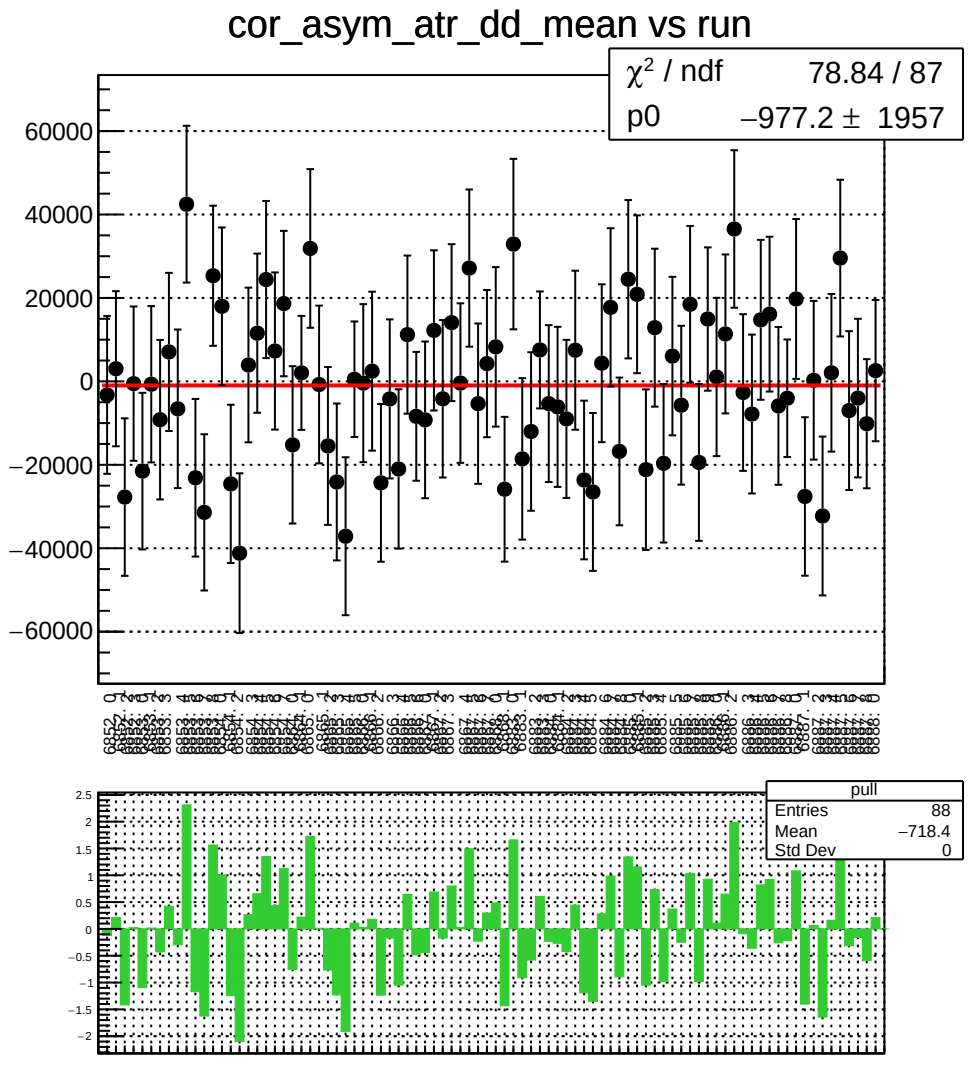

pull1D
Entries 88
Mean −0.002609
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

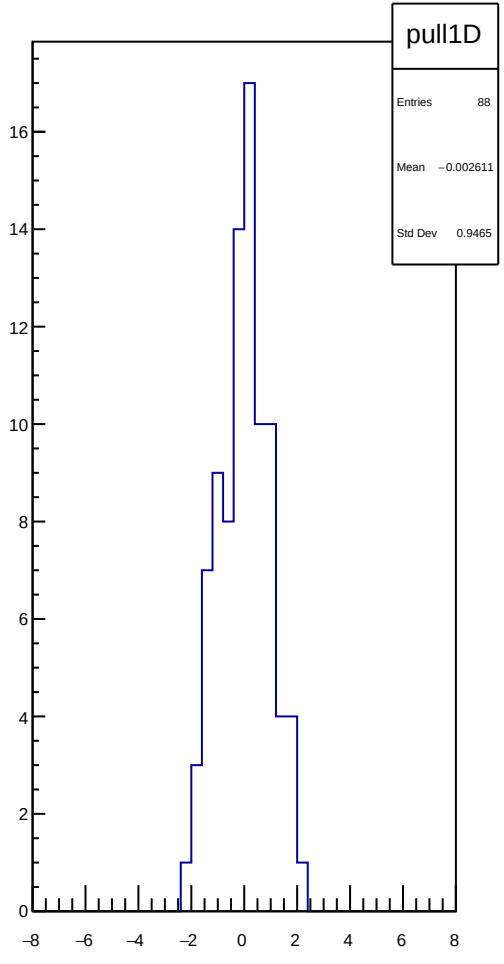

reg_asym_atr_dd_rms vs run
χ^2 / ndf 214.7 / 87
p0 1799 ± 1.384
1950
1900
1850
1800
1750

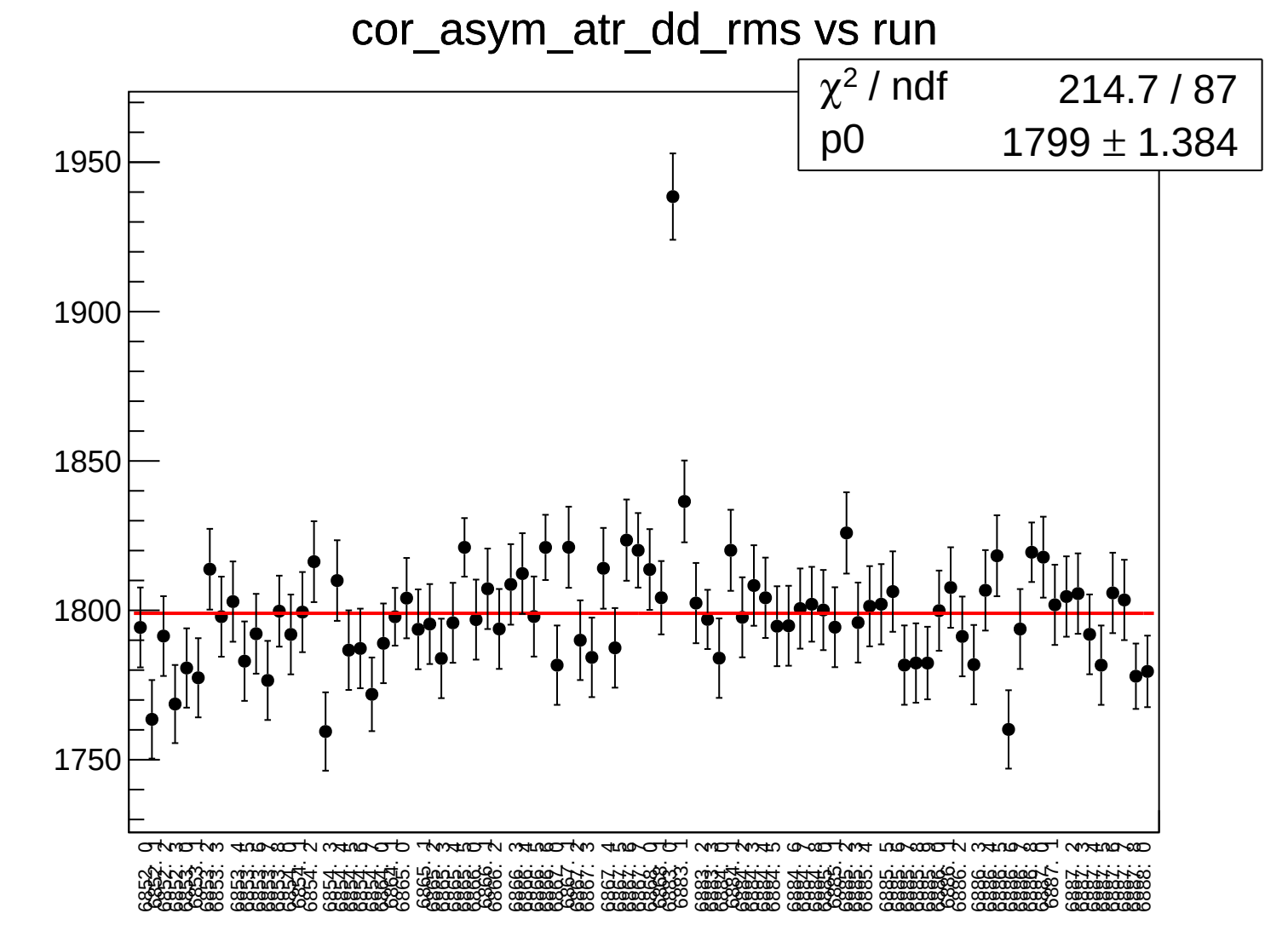

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 77.17 / 87
p0 444.5 ± 4117
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −68.23
Std Dev 0
2
1
0
−1
−2

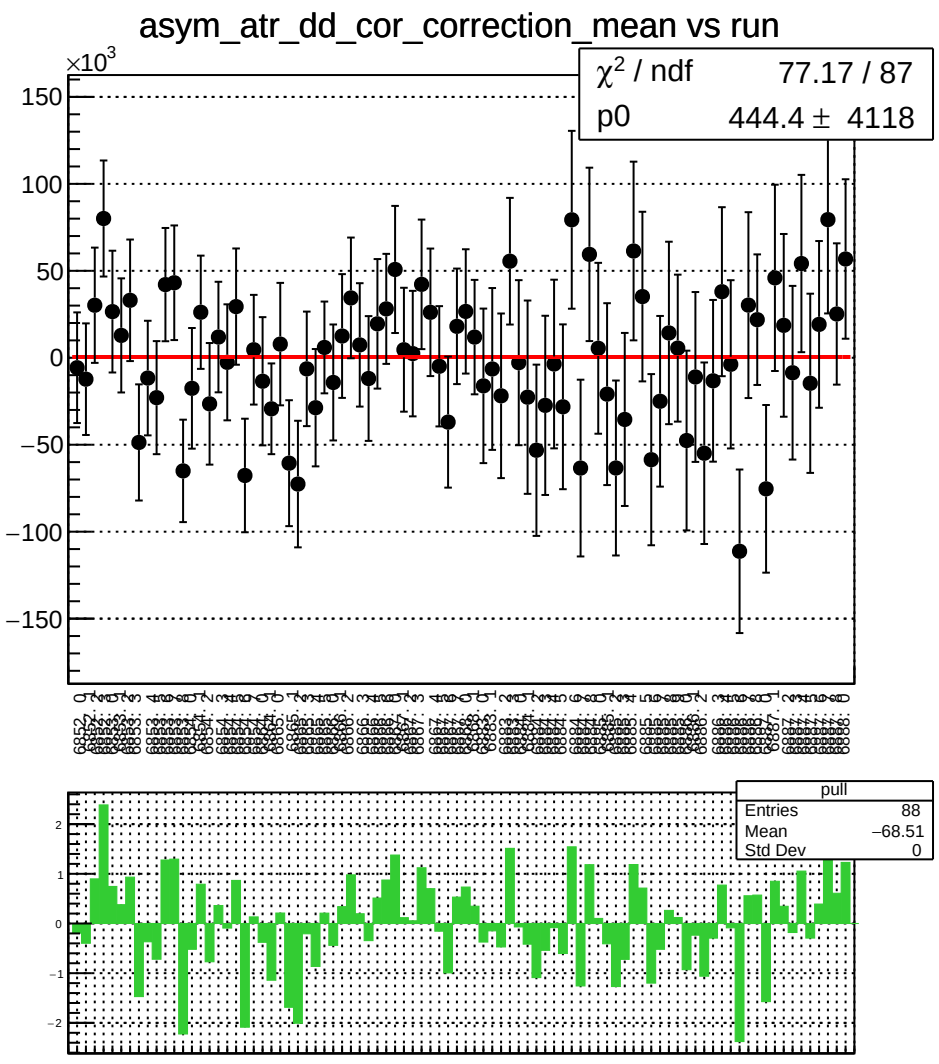

pull1D
Entries 88
Mean −0.004716
Std Dev 0.9365
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

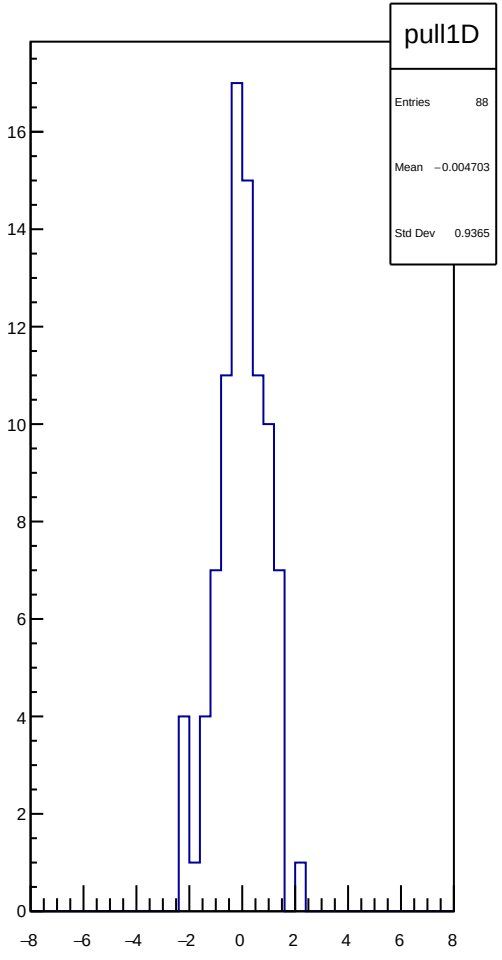

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 5.554e+04 / 87
p0 3723 ± 2.911
5500
5000
4500
4000
3500
3000

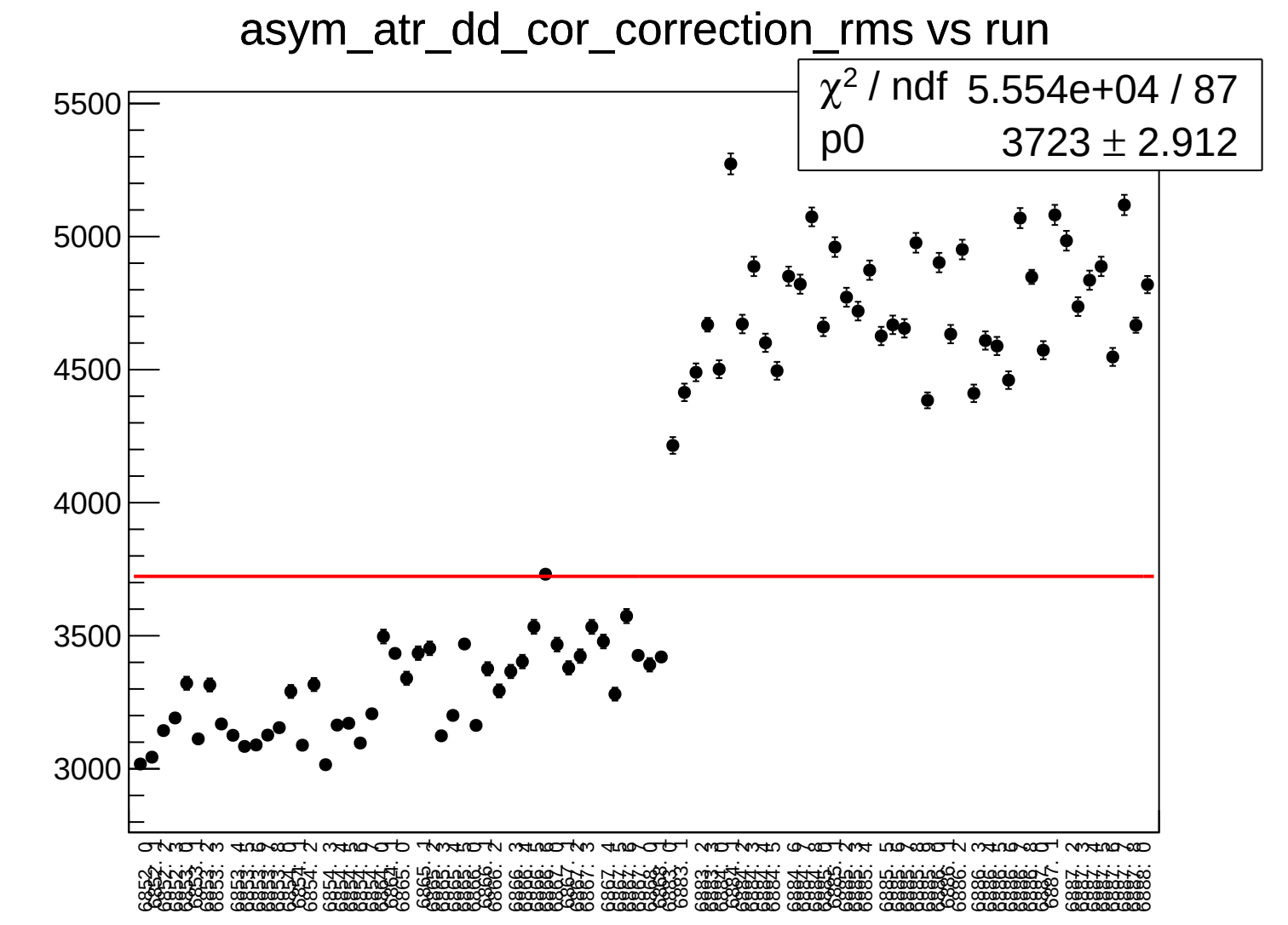

cor_asym_atr_dd_mean vs run
χ² / ndf 78.84 / 87
p0 −977.2 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −718.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

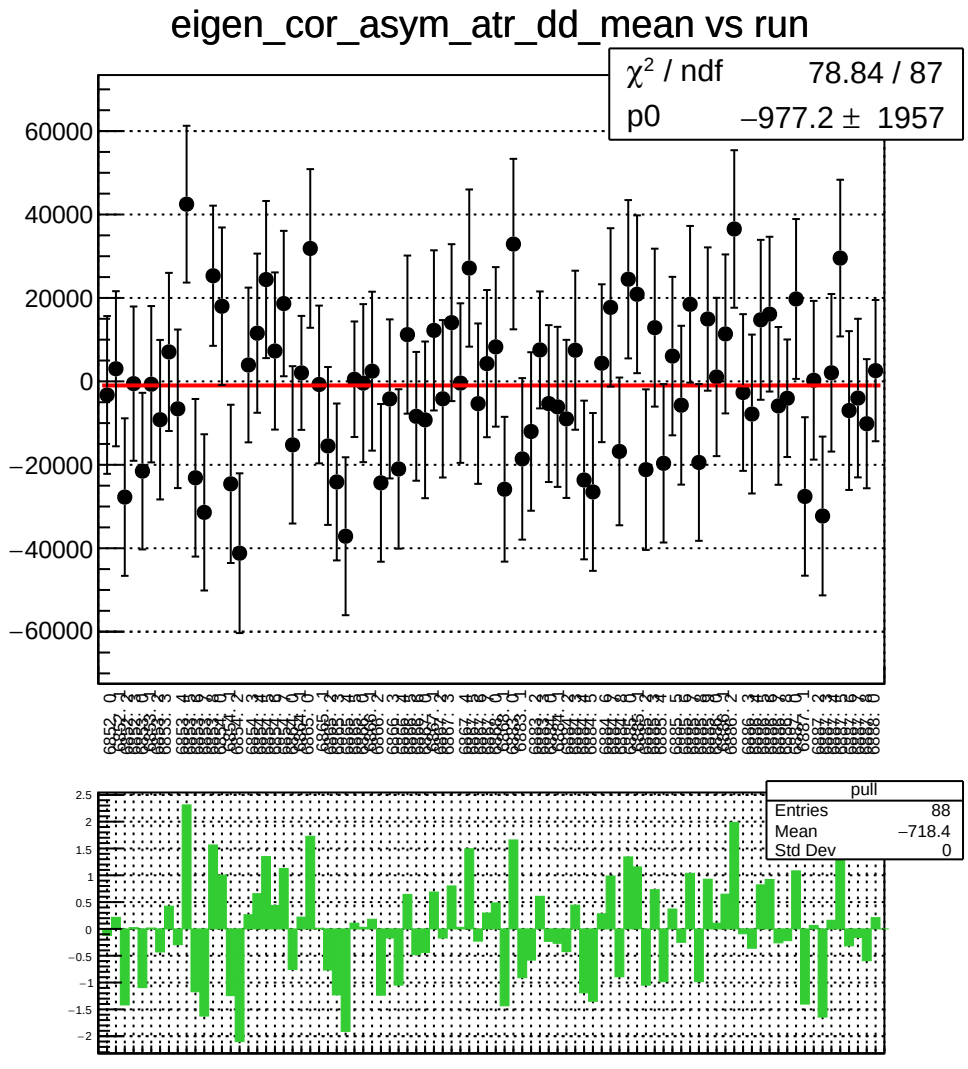

pull1D
Entries 88
Mean −0.002611
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

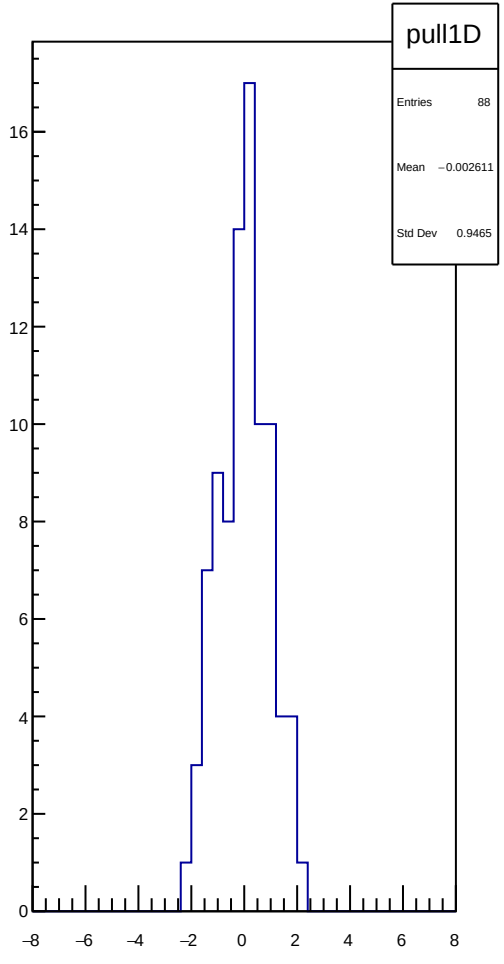

cor_asym_atr_dd_rms vs run
χ^2 / ndf 214.7 / 87
p0 1799 ± 1.384
1950
1900
1850
1800
1750

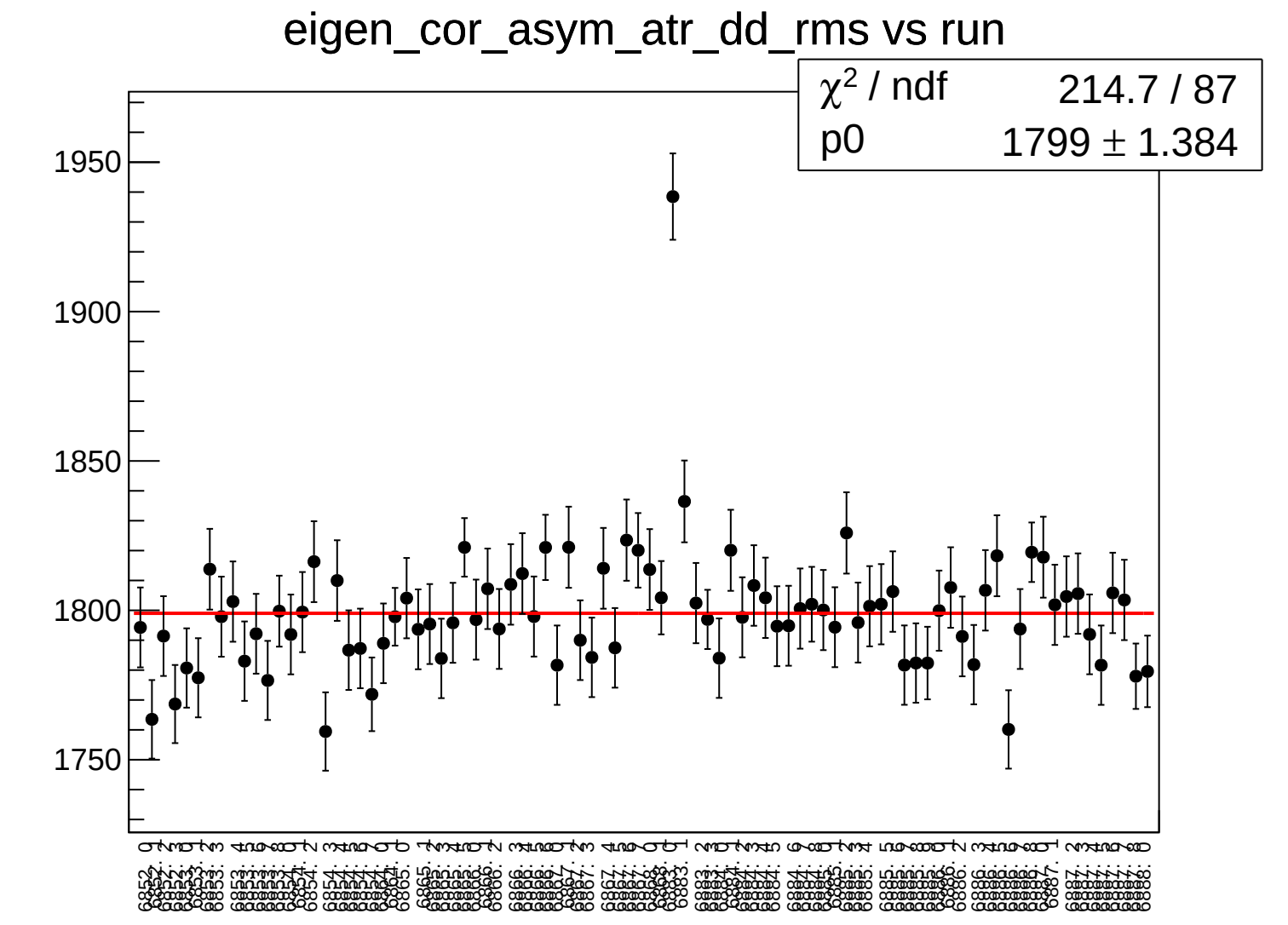

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 77.17 / 87
p0 444.4 ± 4118
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −68.51
Std Dev 0
2
1
0
−1
−2

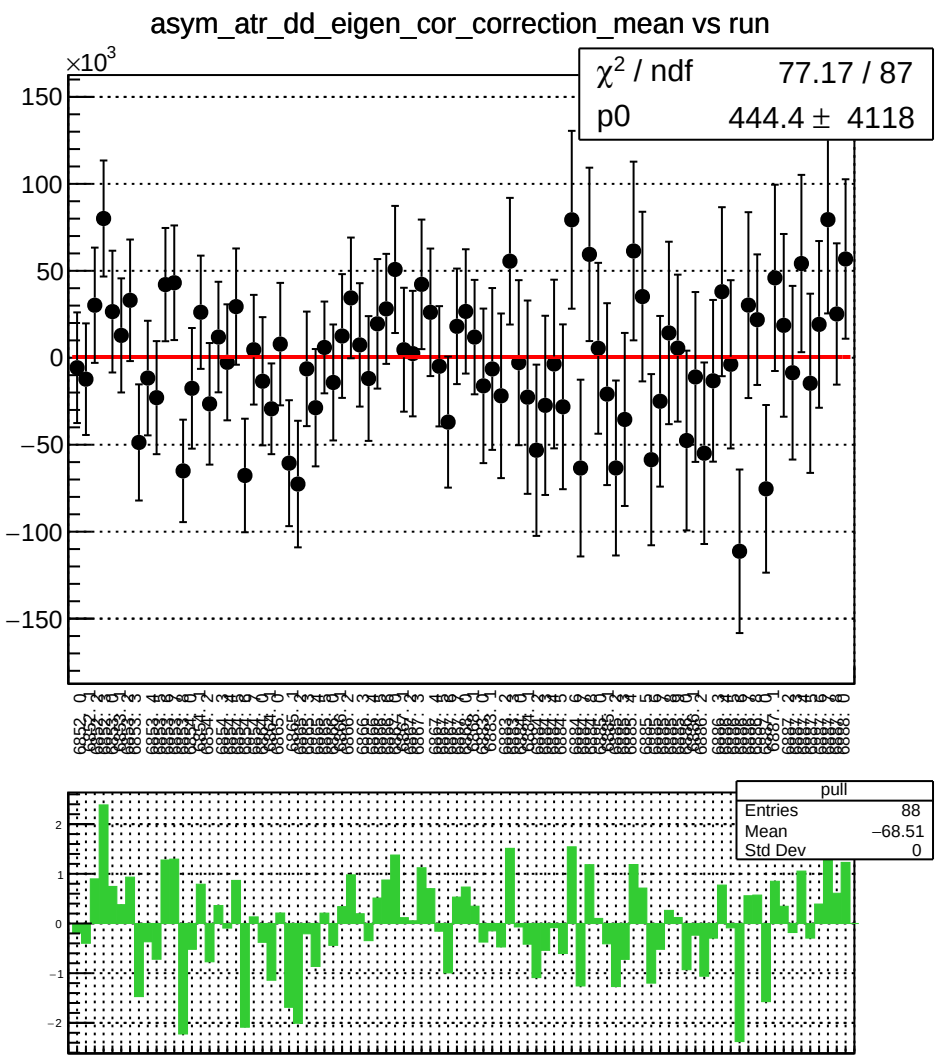

pull1D
Entries 88
Mean −0.004703
Std Dev 0.9365
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

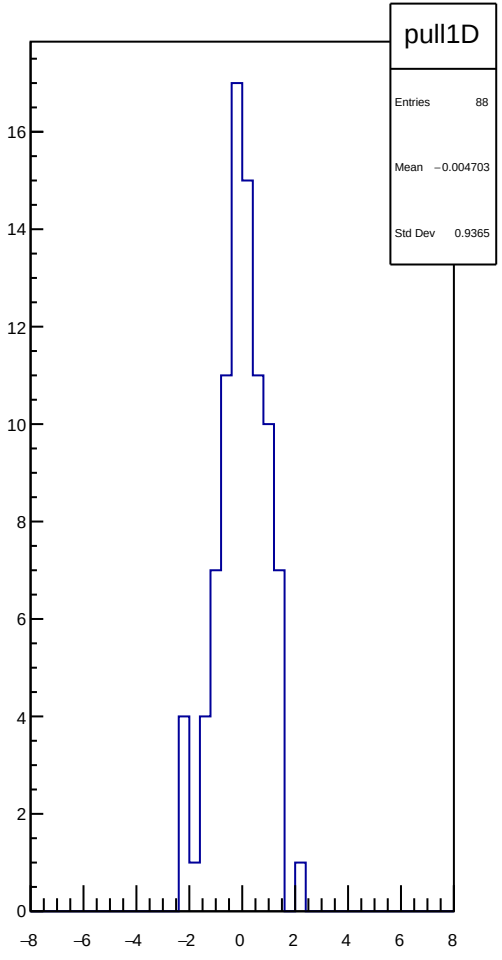

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 5.554e+04 / 87
p0 3723 ± 2.912
5500
5000
4500
4000
3500
3000

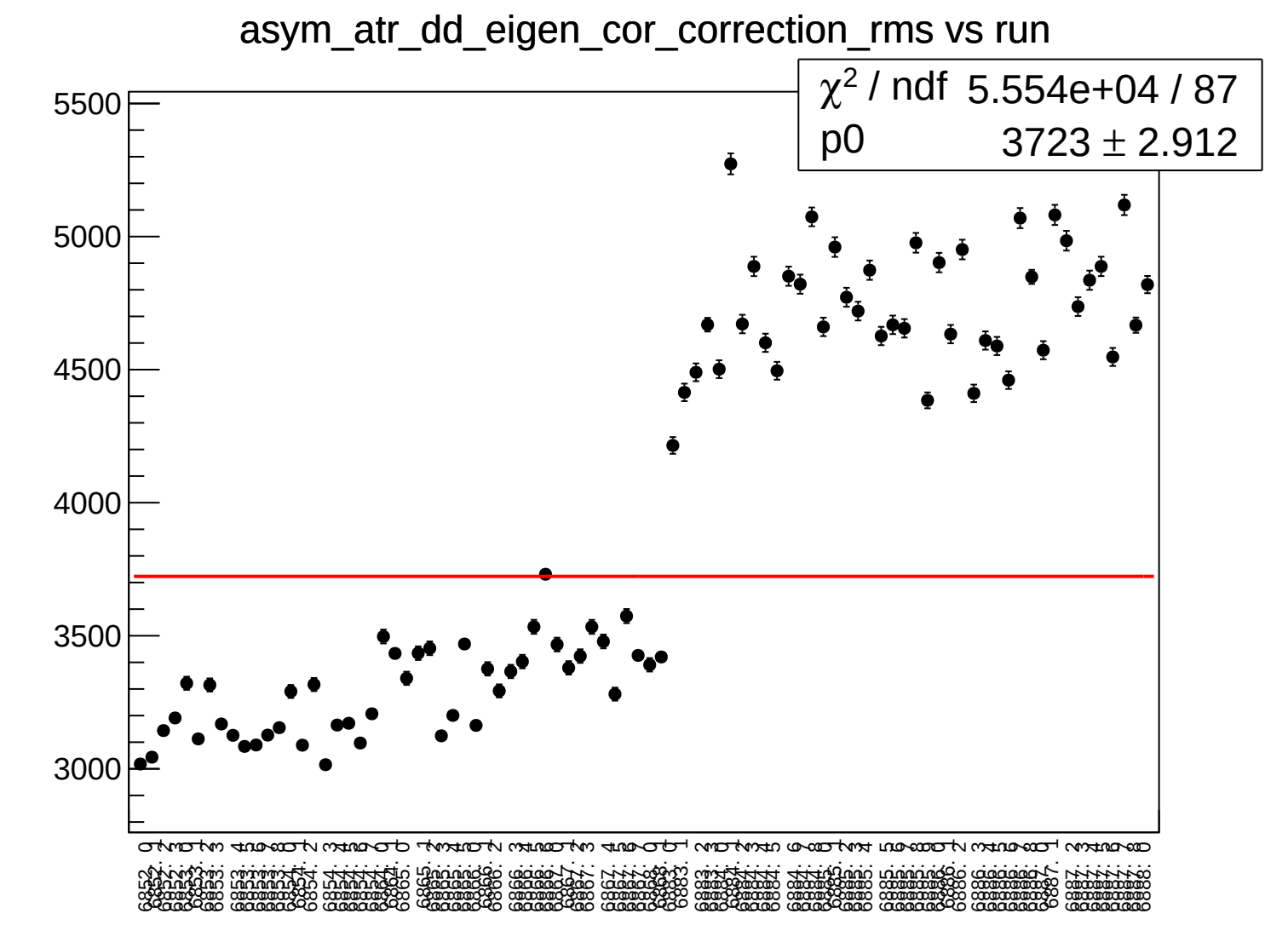

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 78.84 / 87
p0 −977.2 ± 1957
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −718.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

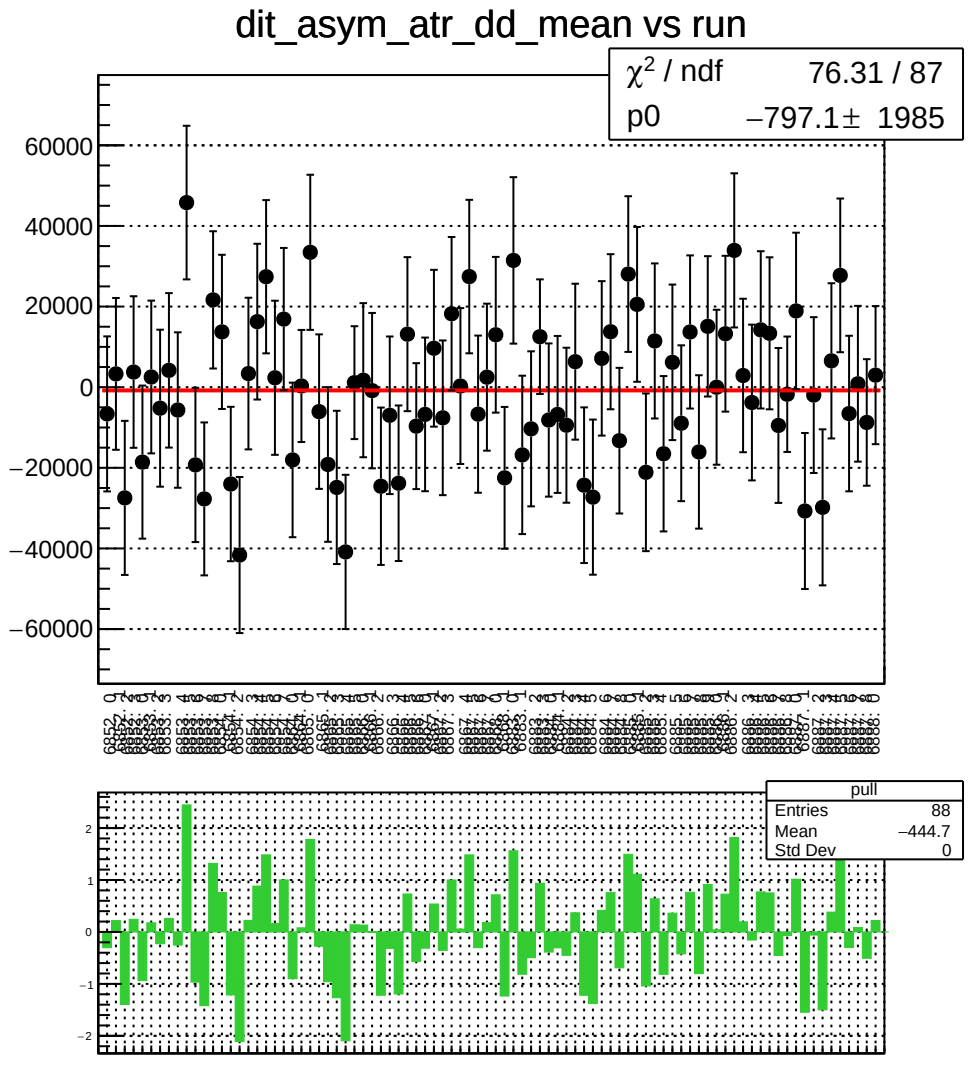

pull1D
Entries 88
Mean −0.002611
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

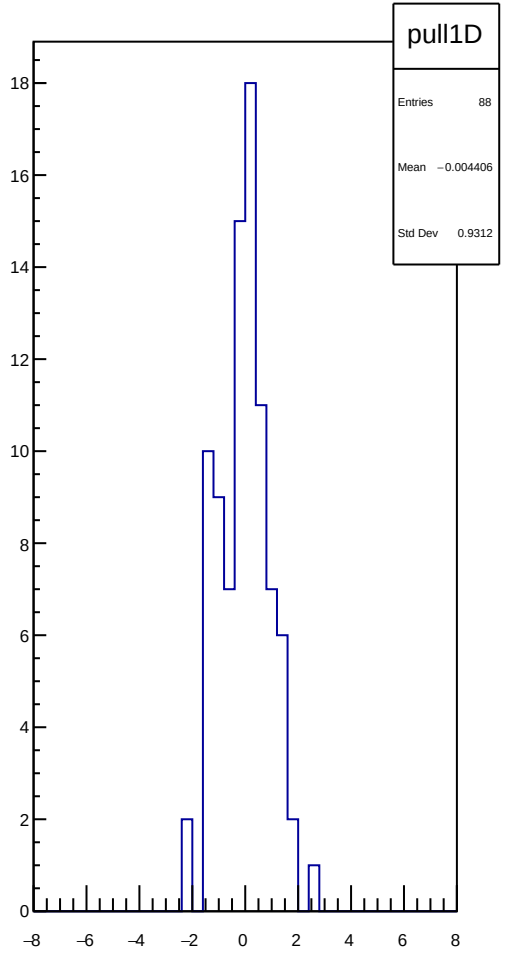

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 214.7 / 87
p0 1799 ± 1.384
1950
1900
1850
1800
1750

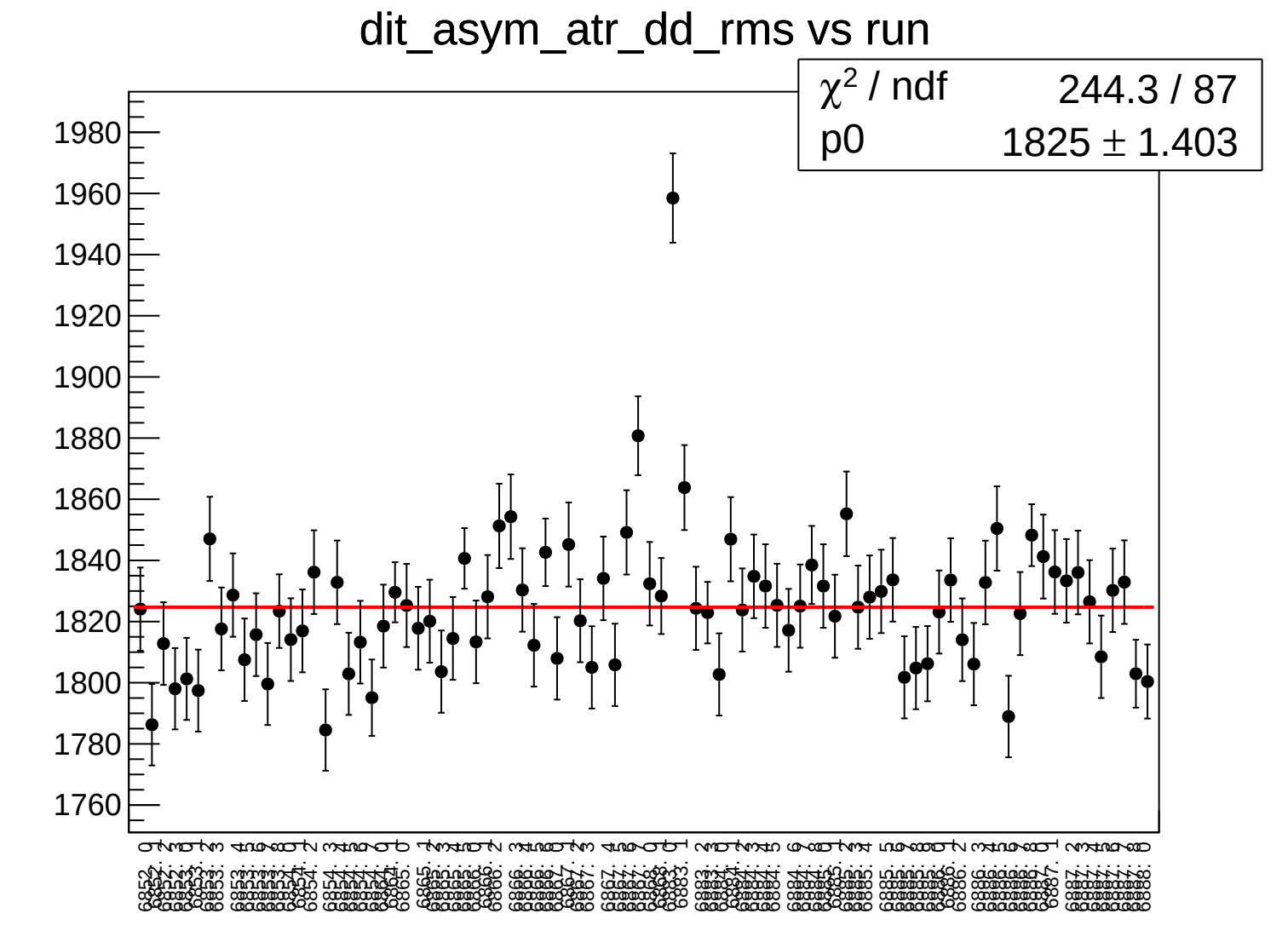

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 77.17 / 87
p0 444.4 ± 4118
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −68.51
Std Dev 0
2
1
0
−1
−2

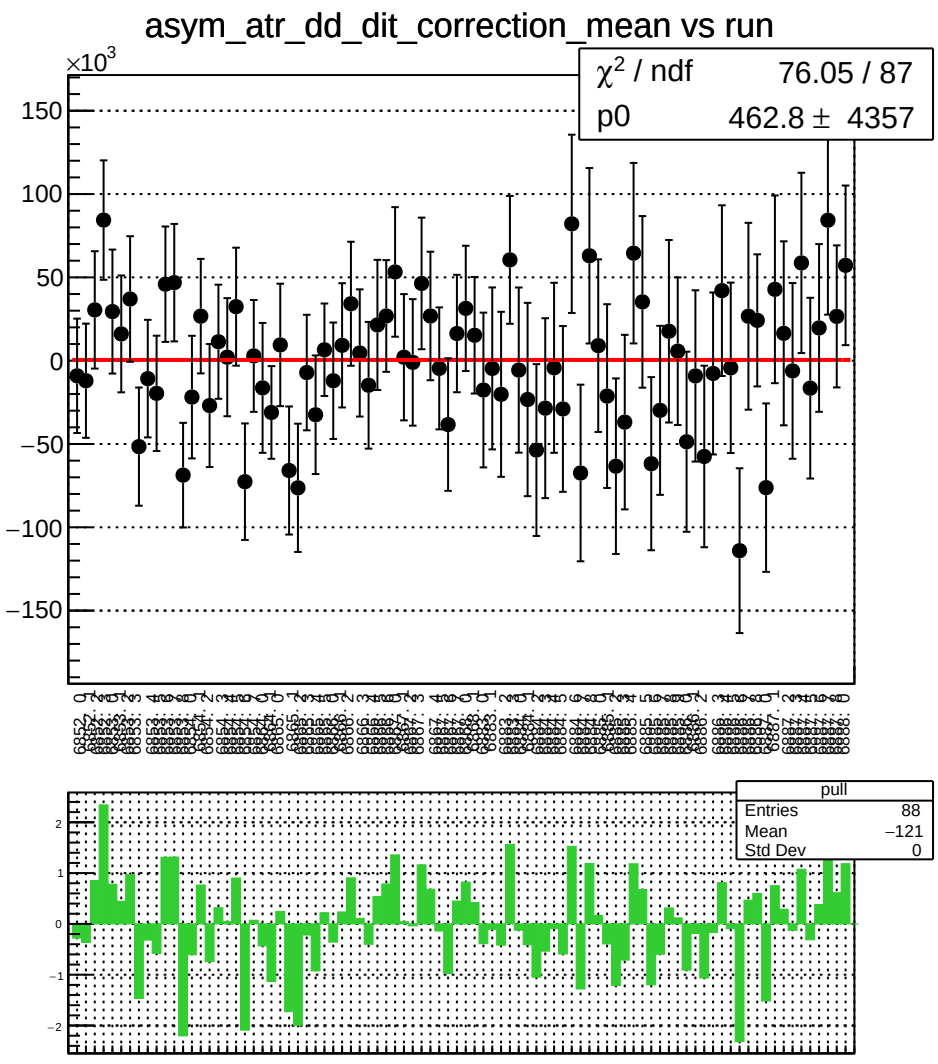

pull1D
Entries 88
Mean −0.004703
Std Dev 0.9365
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

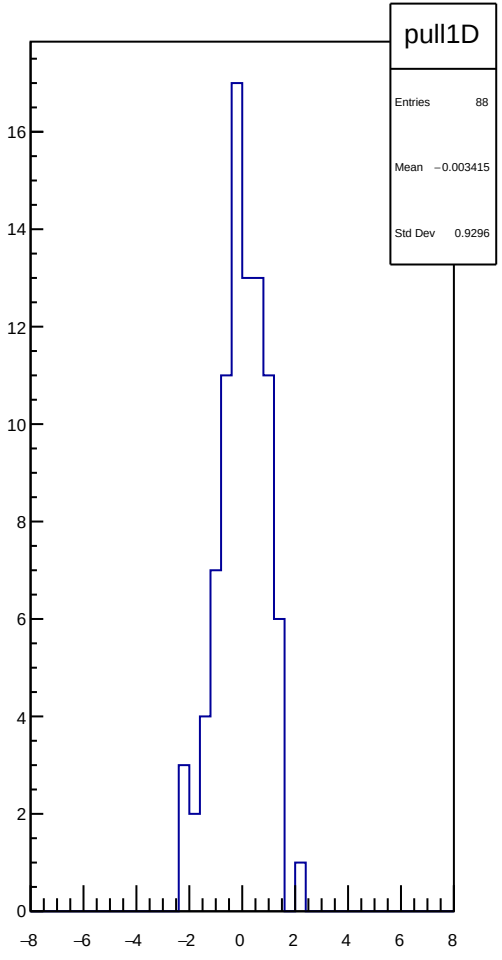

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.554e+04 / 87
p0 3723 ± 2.912
5500
5000
4500
4000
3500
3000

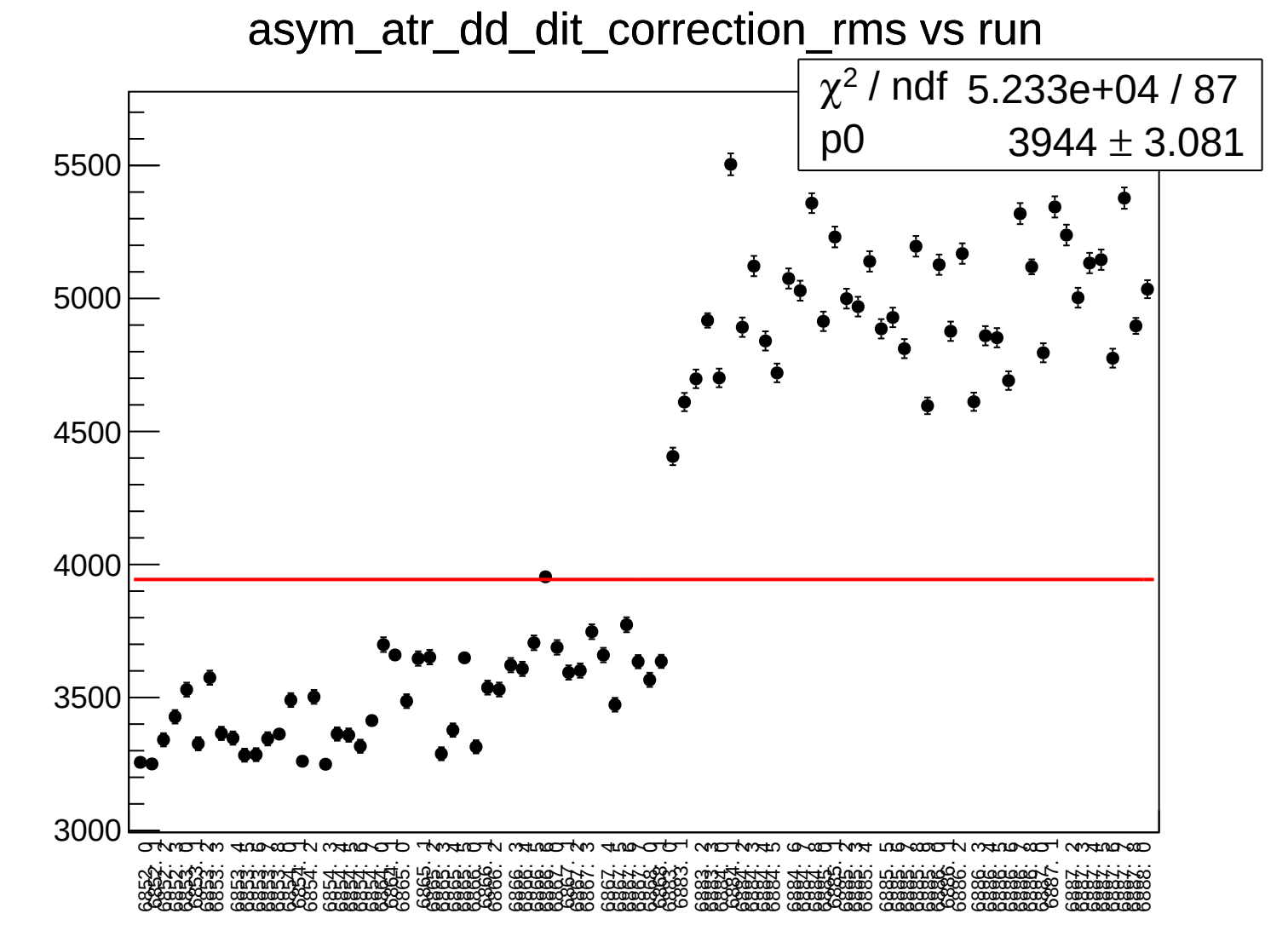

dit_asym_atr_dd_mean vs run
χ² / ndf 76.31 / 87
p0 −797.1± 1985
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −444.7
Std Dev 0
2
1
0
−1
−2

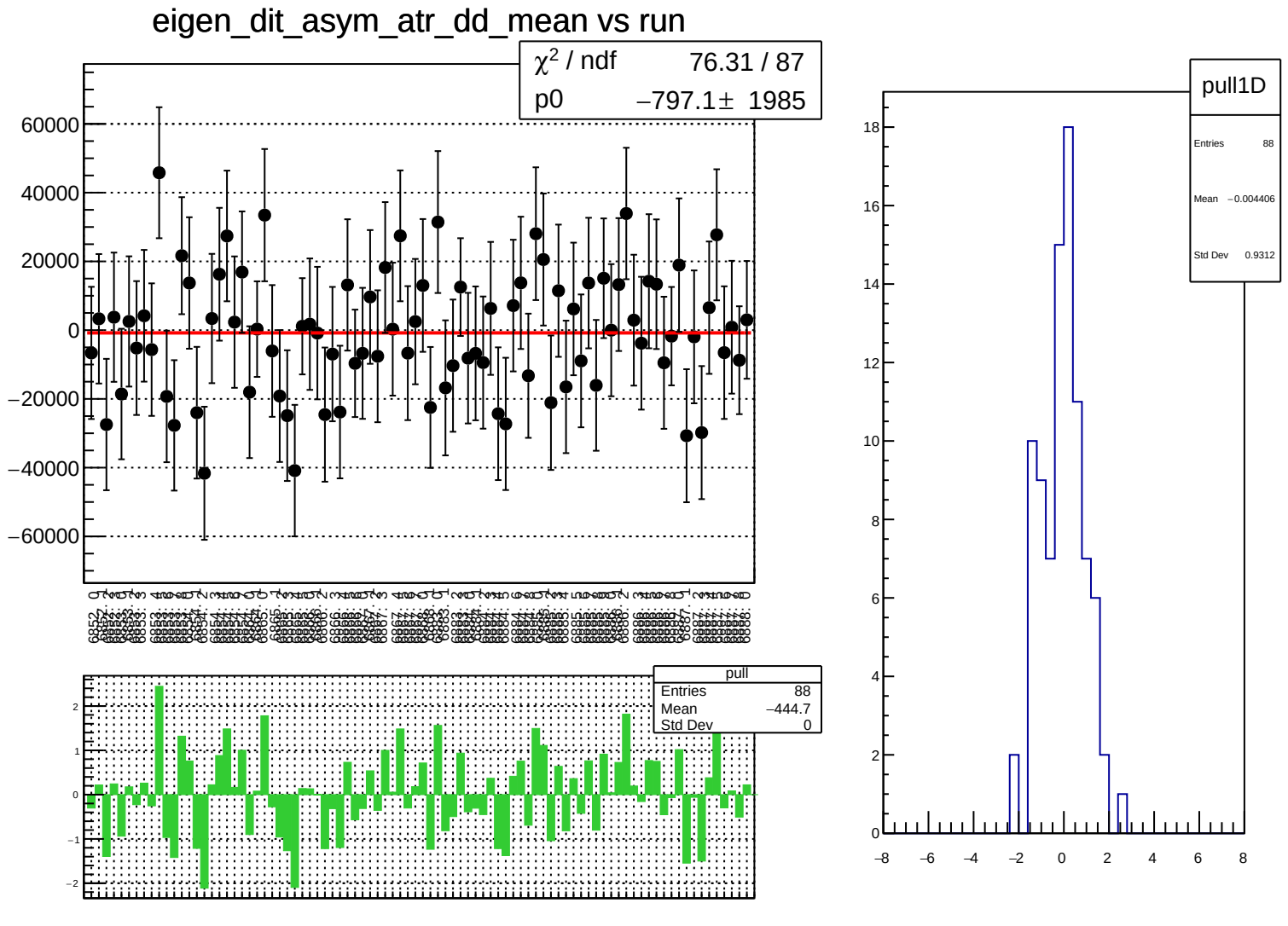

pull1D
Entries 88
Mean −0.004406
Std Dev 0.9312
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

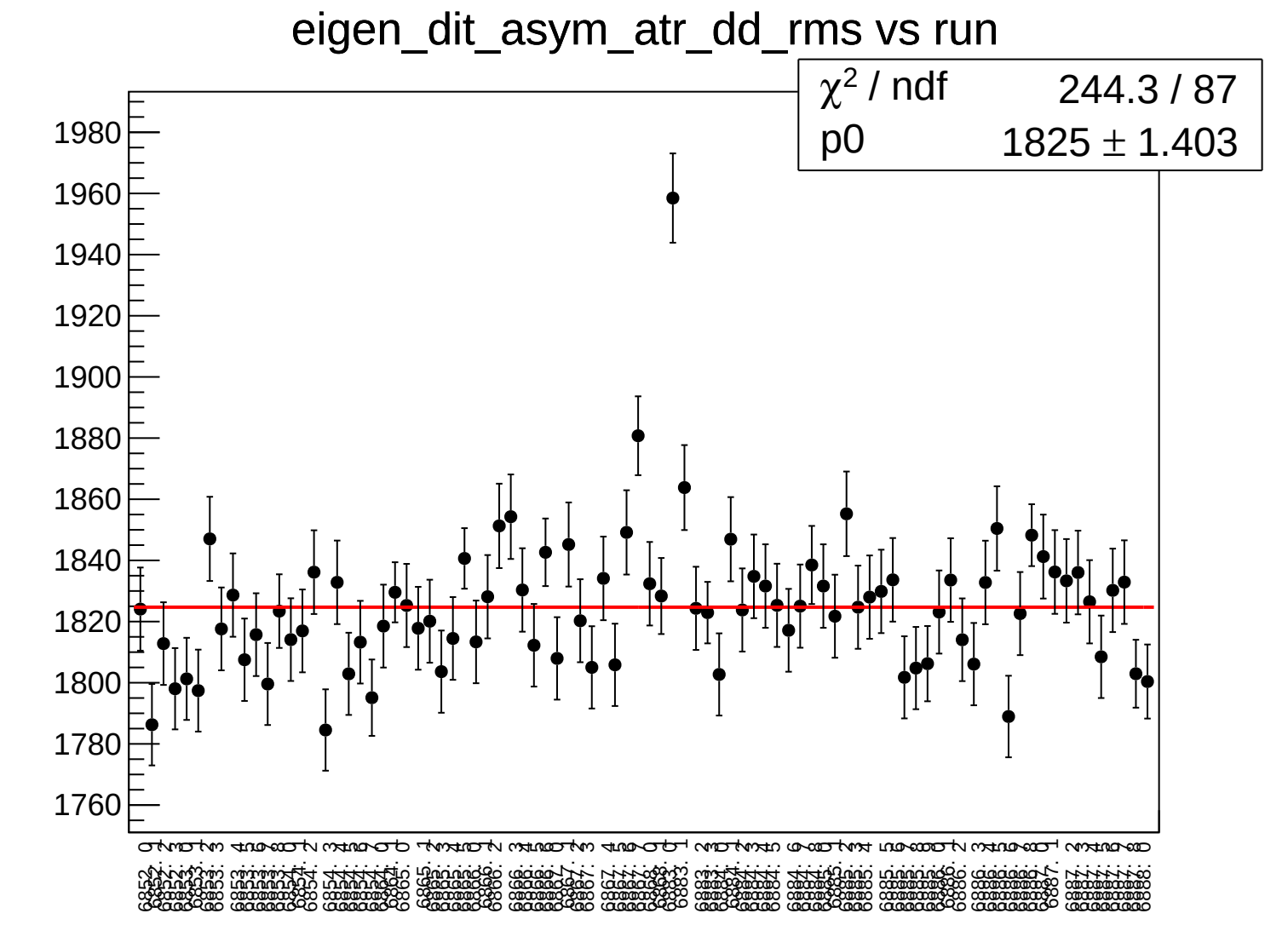

dit_asym_atr_dd_rms vs run
χ² / ndf 244.3 / 87
p0 1825 ± 1.403
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

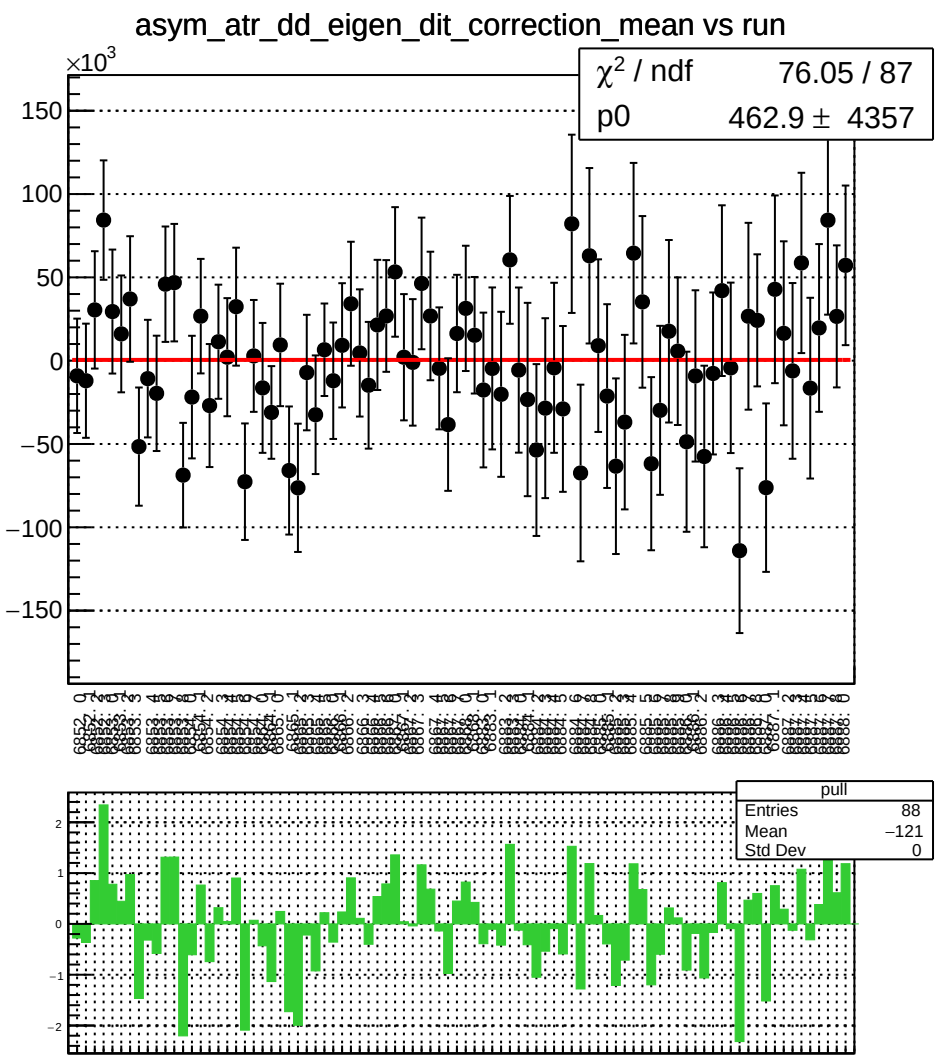

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 76.05 / 87
p0 462.8 ± 4357
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −121
Std Dev 0
2
1
0
−1
−2

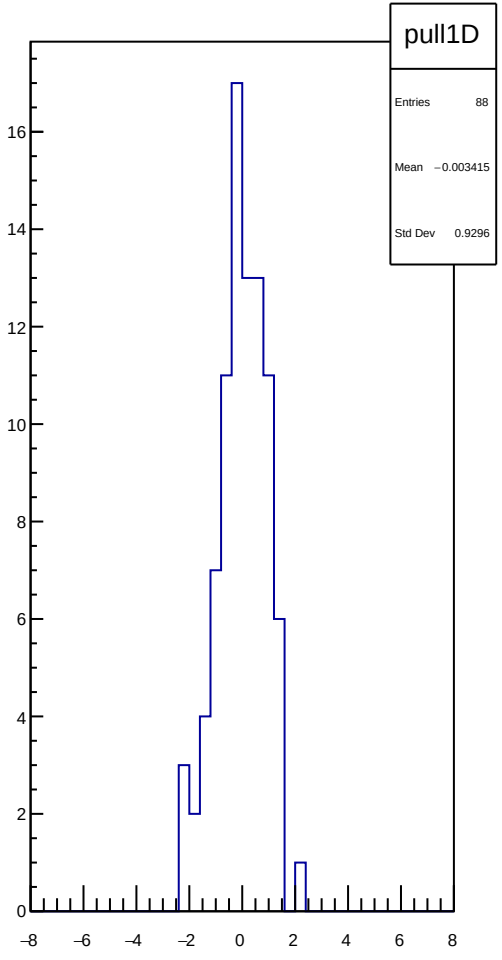

pull1D
Entries 88
Mean −0.003415
Std Dev 0.9296
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

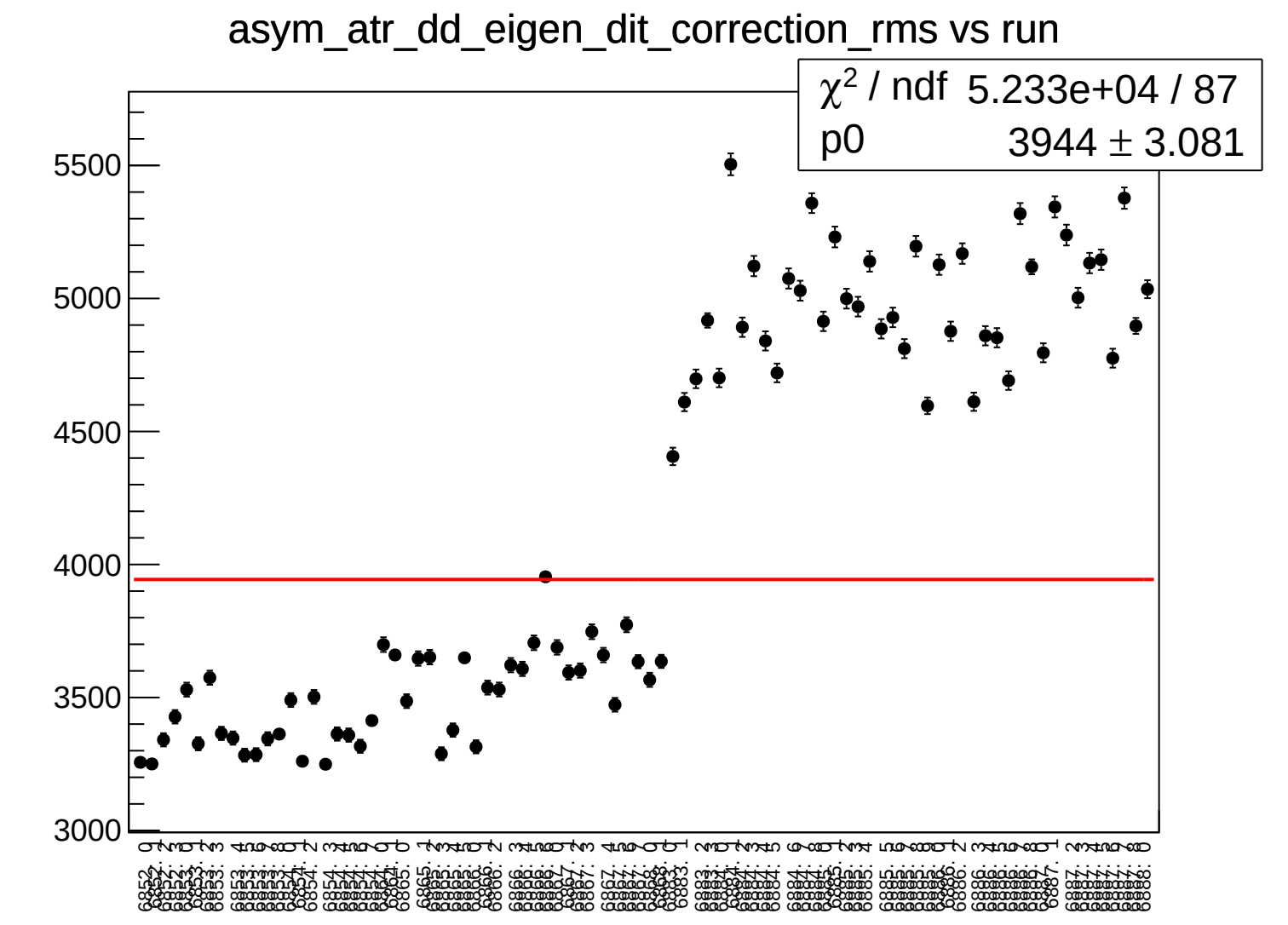

asym_atr_dd_dit_correction_rms vs run
χ^2 / ndf 5.233e+04 / 87
p0 3944 ± 3.081
5500
5000
4500
4000
3500
3000

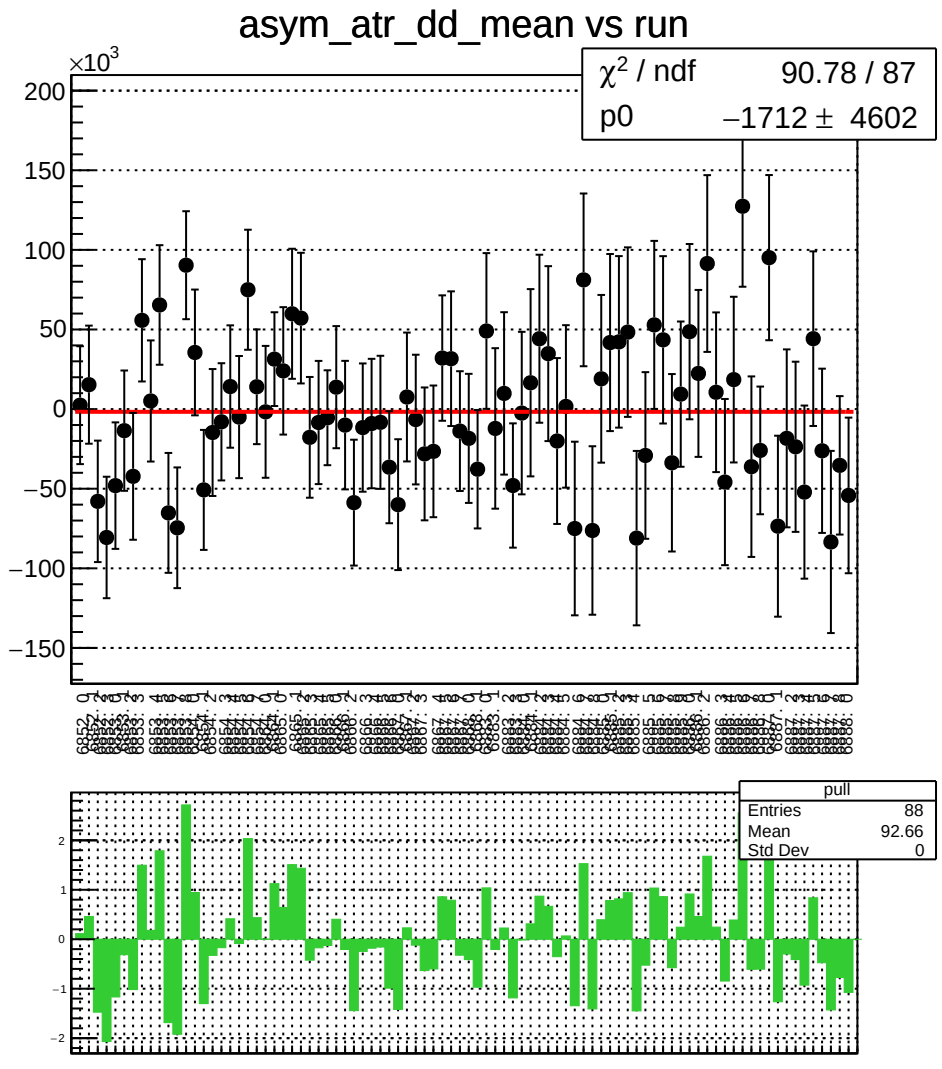

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 76.31 / 87
p0 −797.1± 1985
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −444.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.004406
Std Dev 0.9312
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

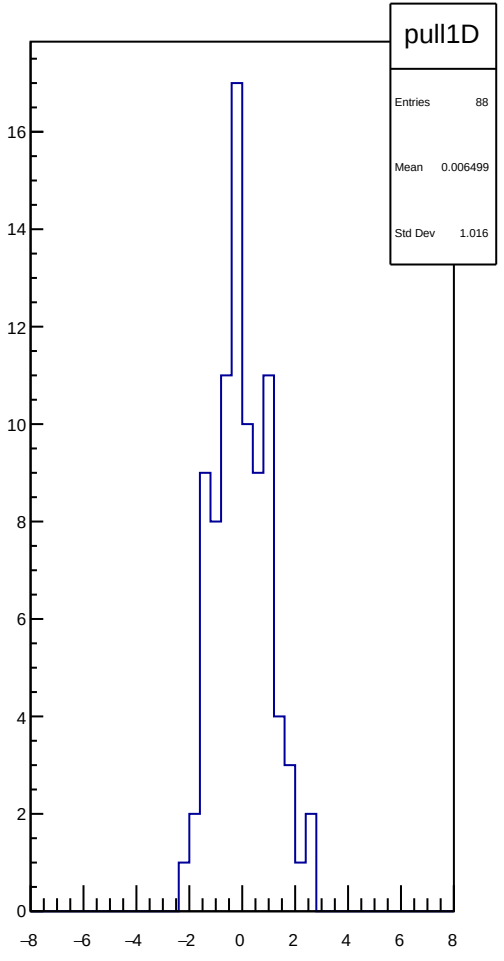

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 244.3 / 87
p0 1825 ± 1.403
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

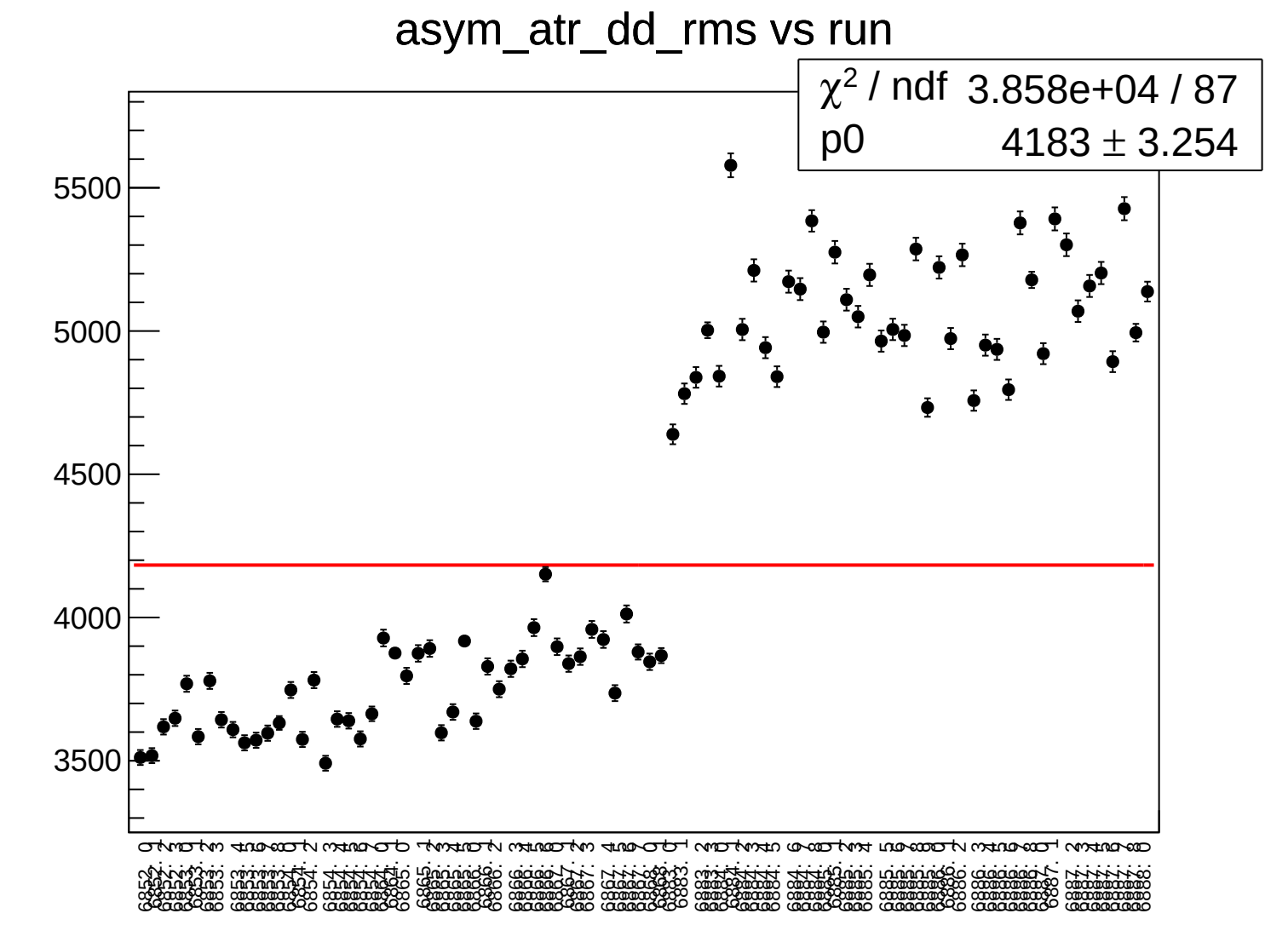

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 76.05 / 87
p0 462.9 ± 4357
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −121
Std Dev 0
2
1
0
−1
−2

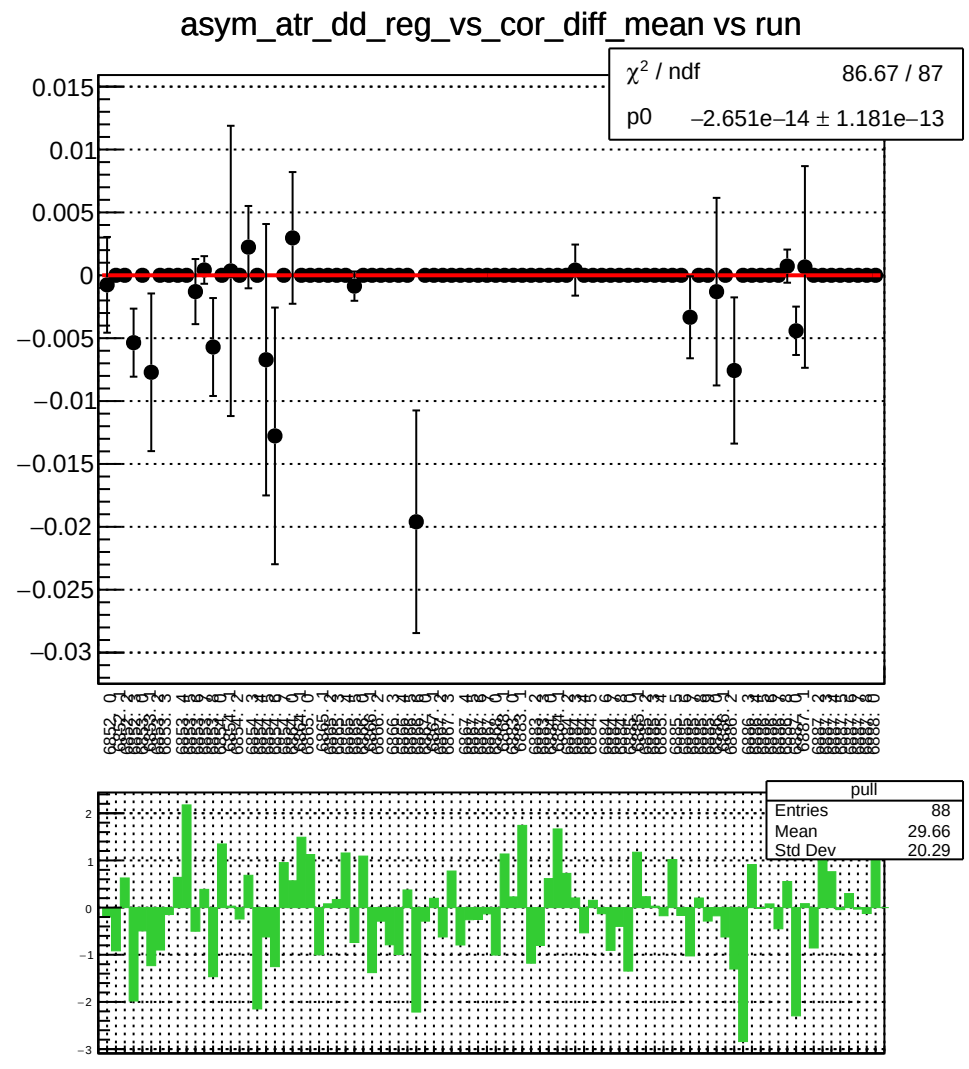

pull1D
Entries 88
Mean −0.003415
Std Dev 0.9296
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

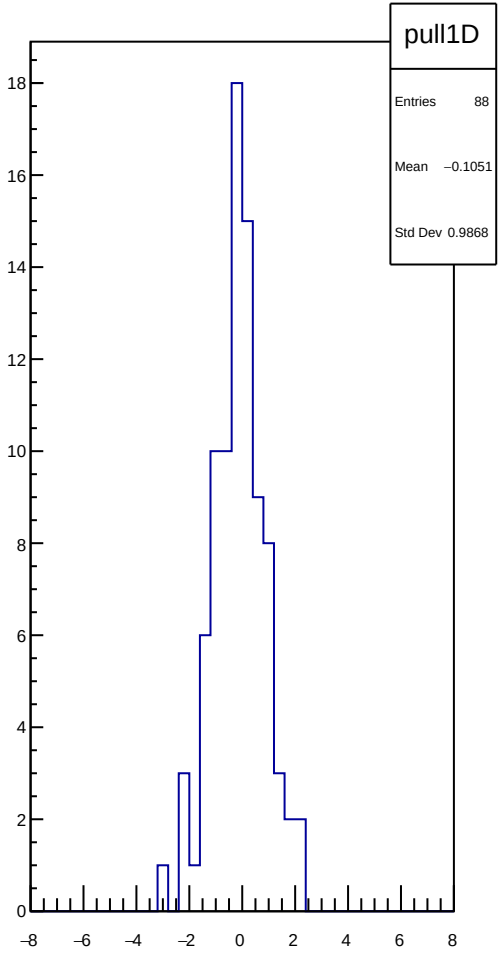

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.233e+04 / 87
p0 3944 ± 3.081
5500
5000
4500
4000
3500
3000

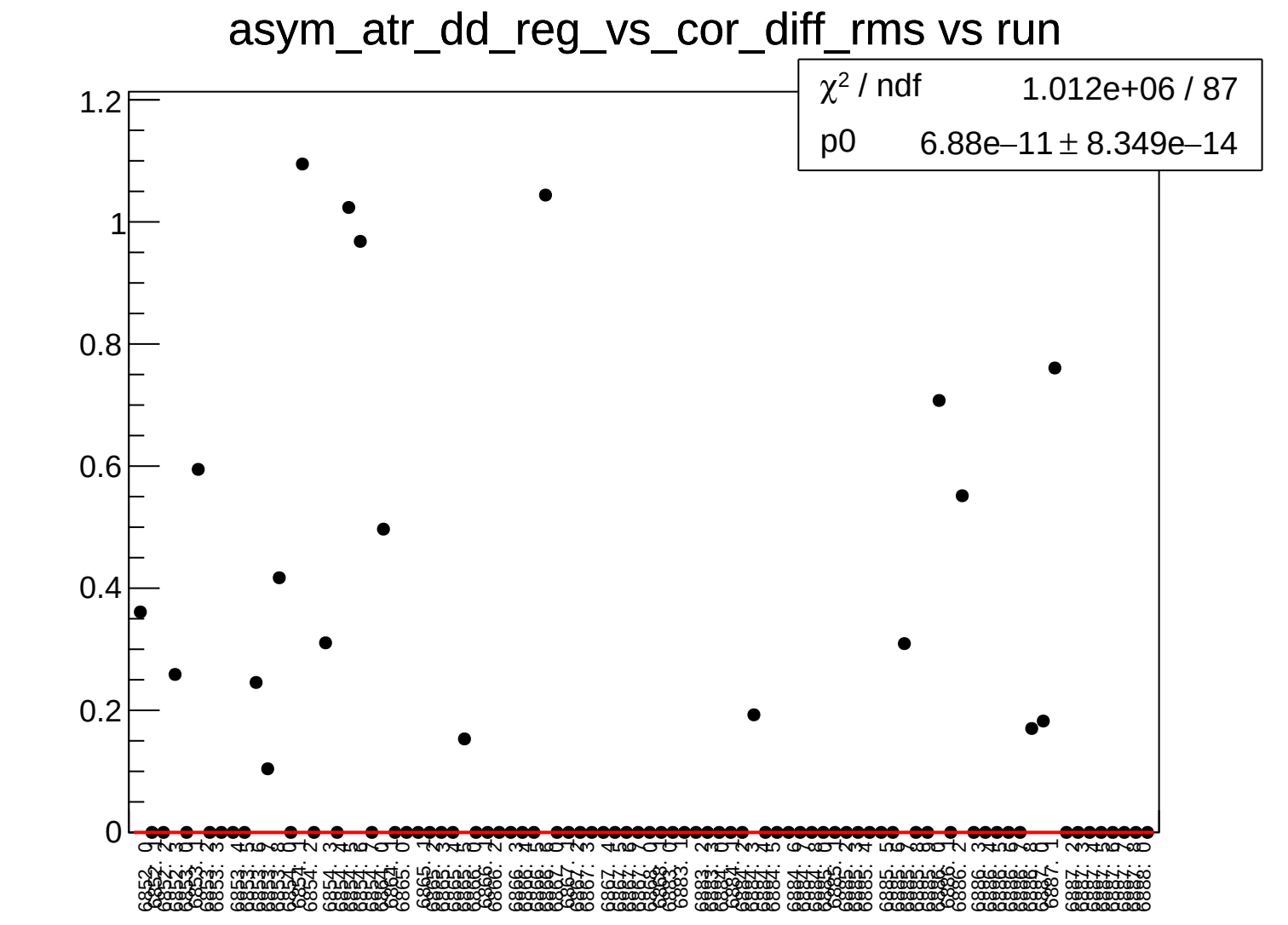

asym_atr_dd_mean vs run
×10^3
χ² / ndf 90.78 / 87
p0 −1712 ± 4602
pull
Entries 88
Mean 92.66
Std Dev 0

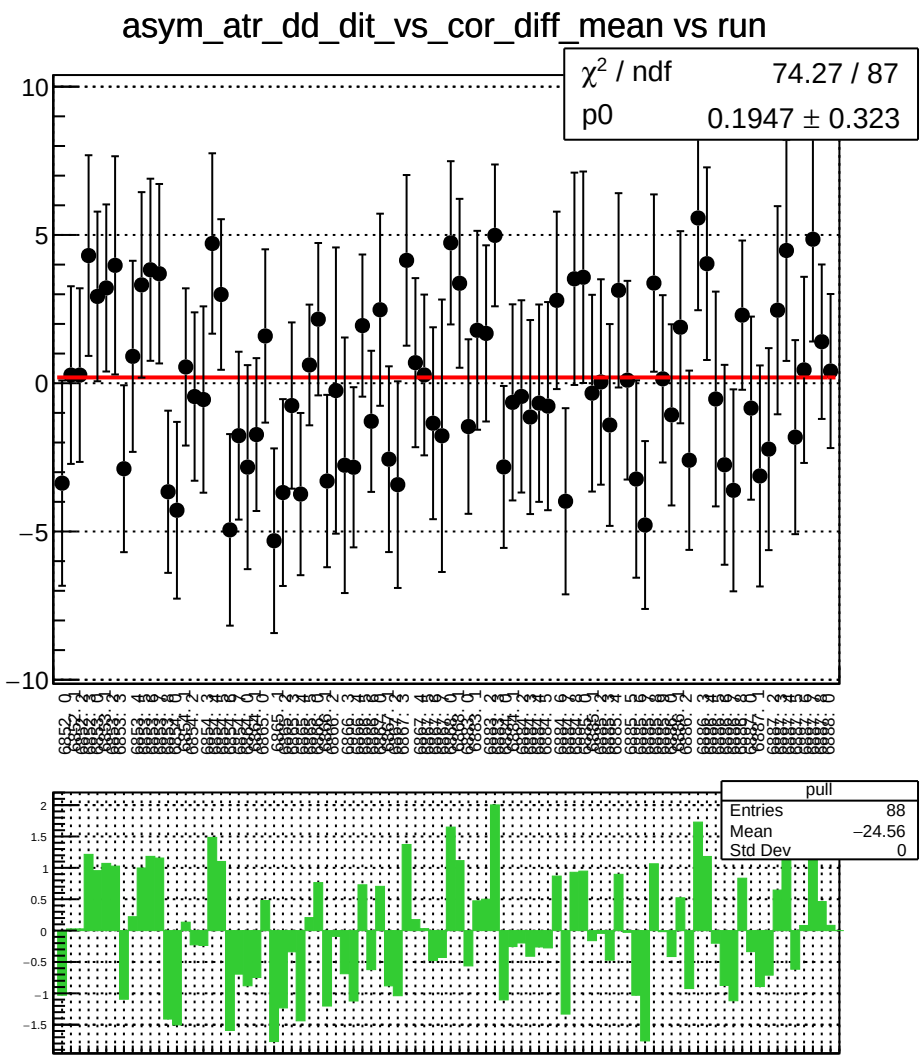

pull1D
Entries 88
Mean 0.006499
Std Dev 1.016

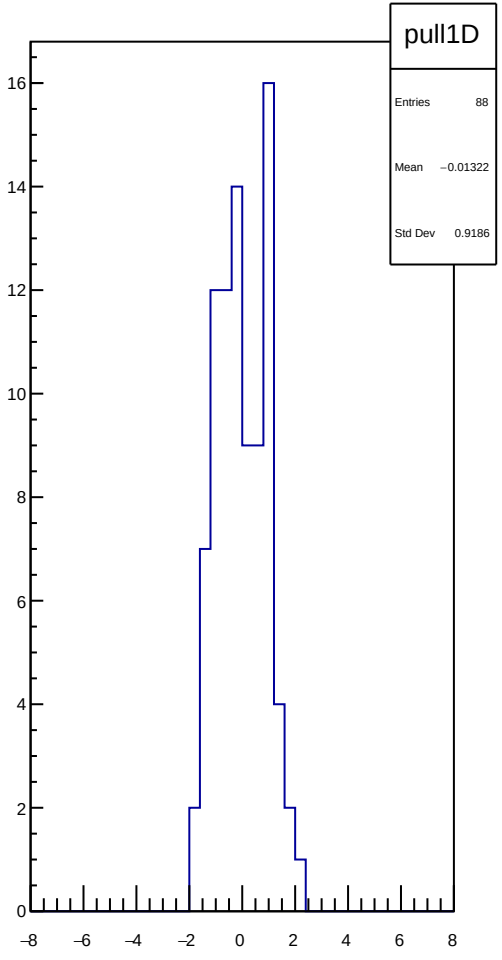

asym_atr_dd_rms vs run
χ² / ndf 3.858e+04 / 87
p0 4183 ± 3.254
5500
5000
4500
4000
3500

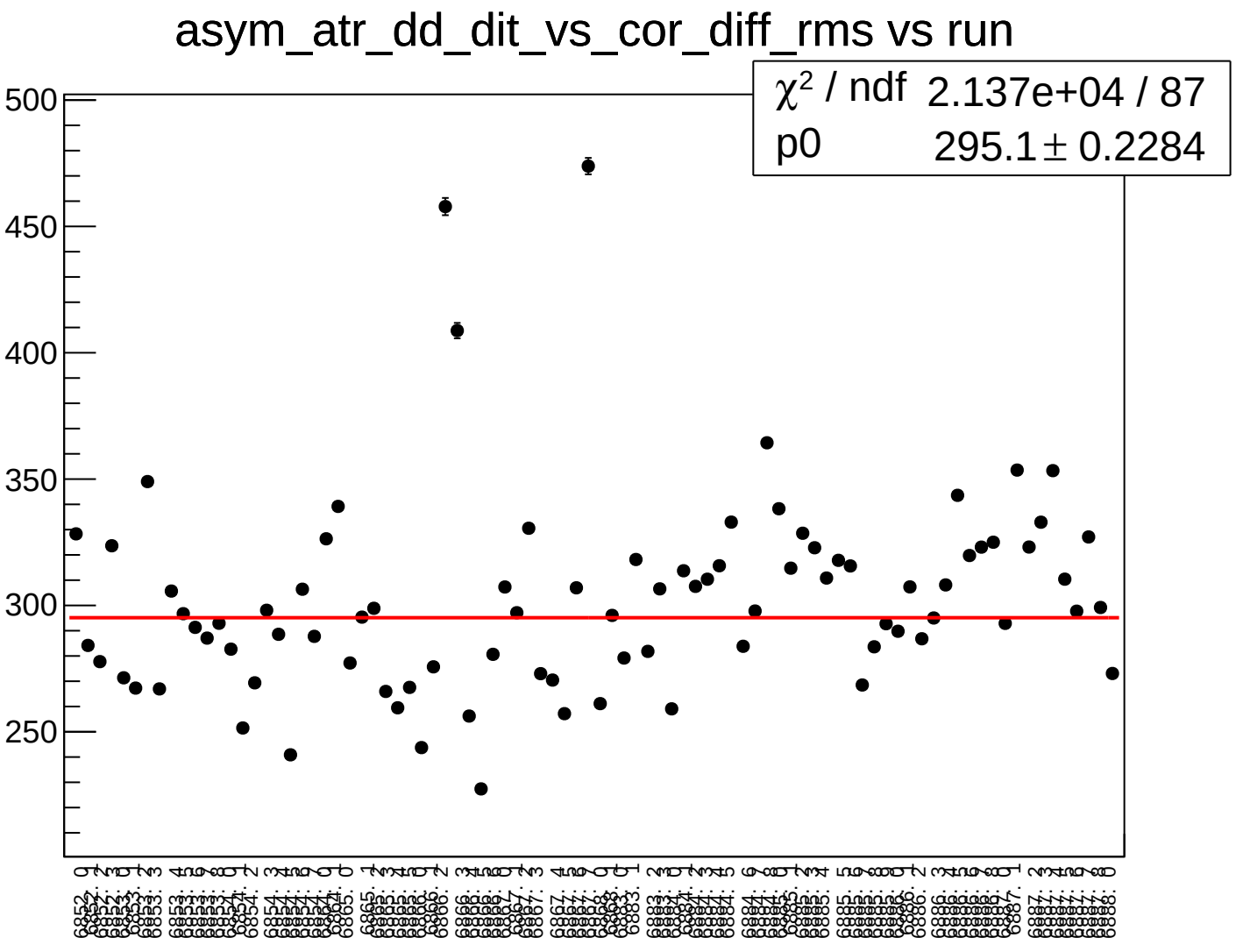

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.67 / 87
p0 −2.651e−14 ± 1.181e−13
pull
Entries 88
Mean 29.66
Std Dev 20.29

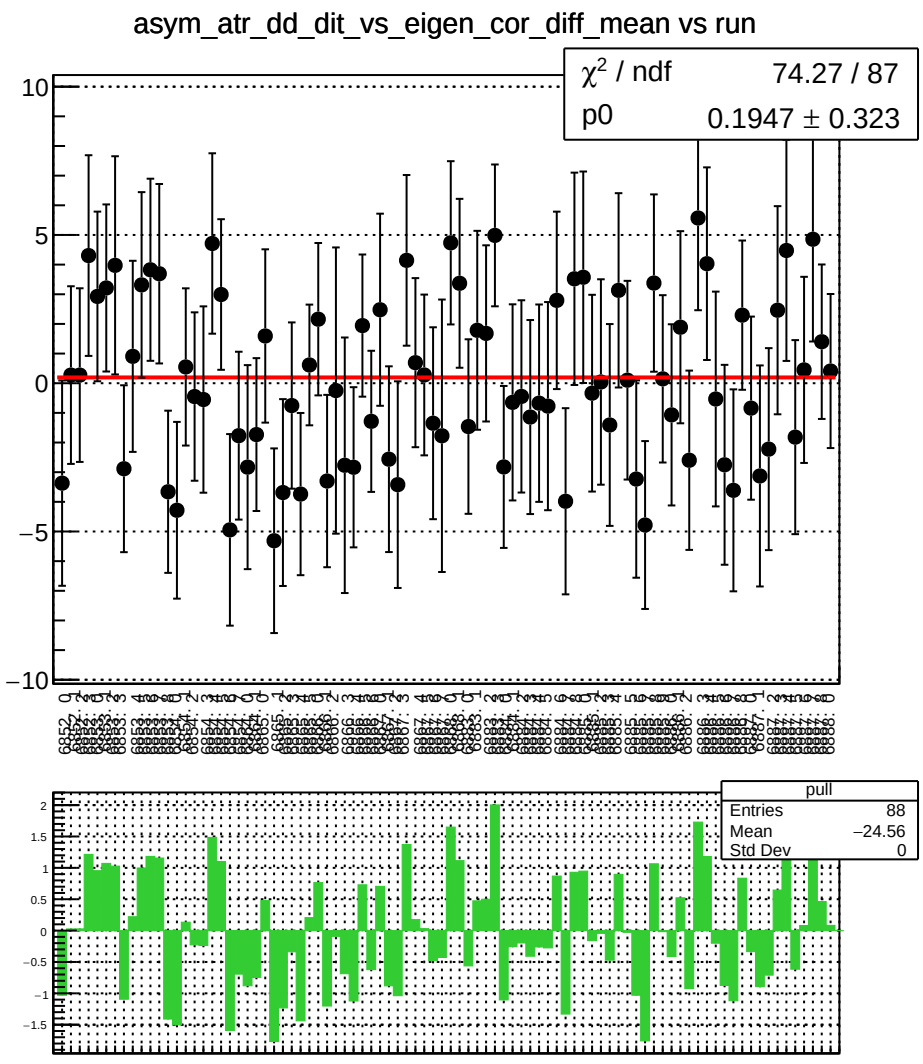

pull1D
Entries 88
Mean −0.1051
Std Dev 0.9868

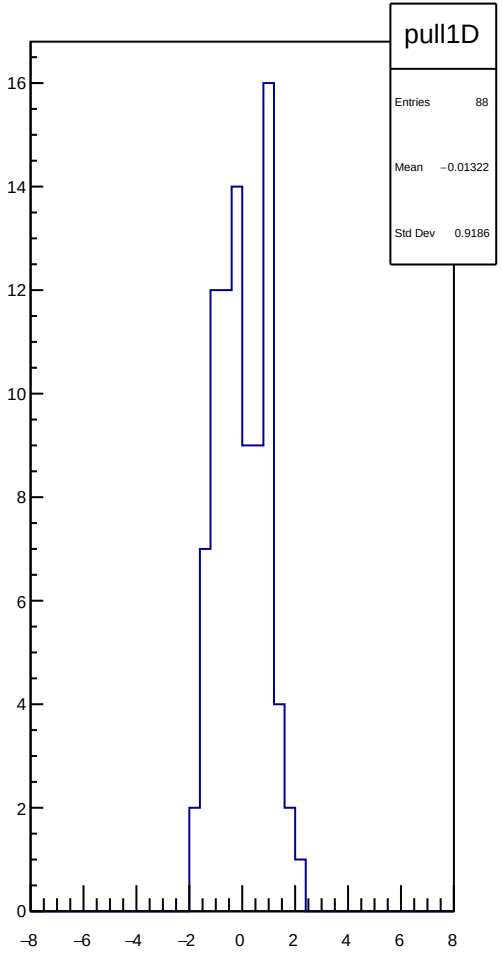

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.012e+06 / 87
p0 6.88e−11 ± 8.349e−14
1.2
1
0.8
0.6
0.4
0.2
0

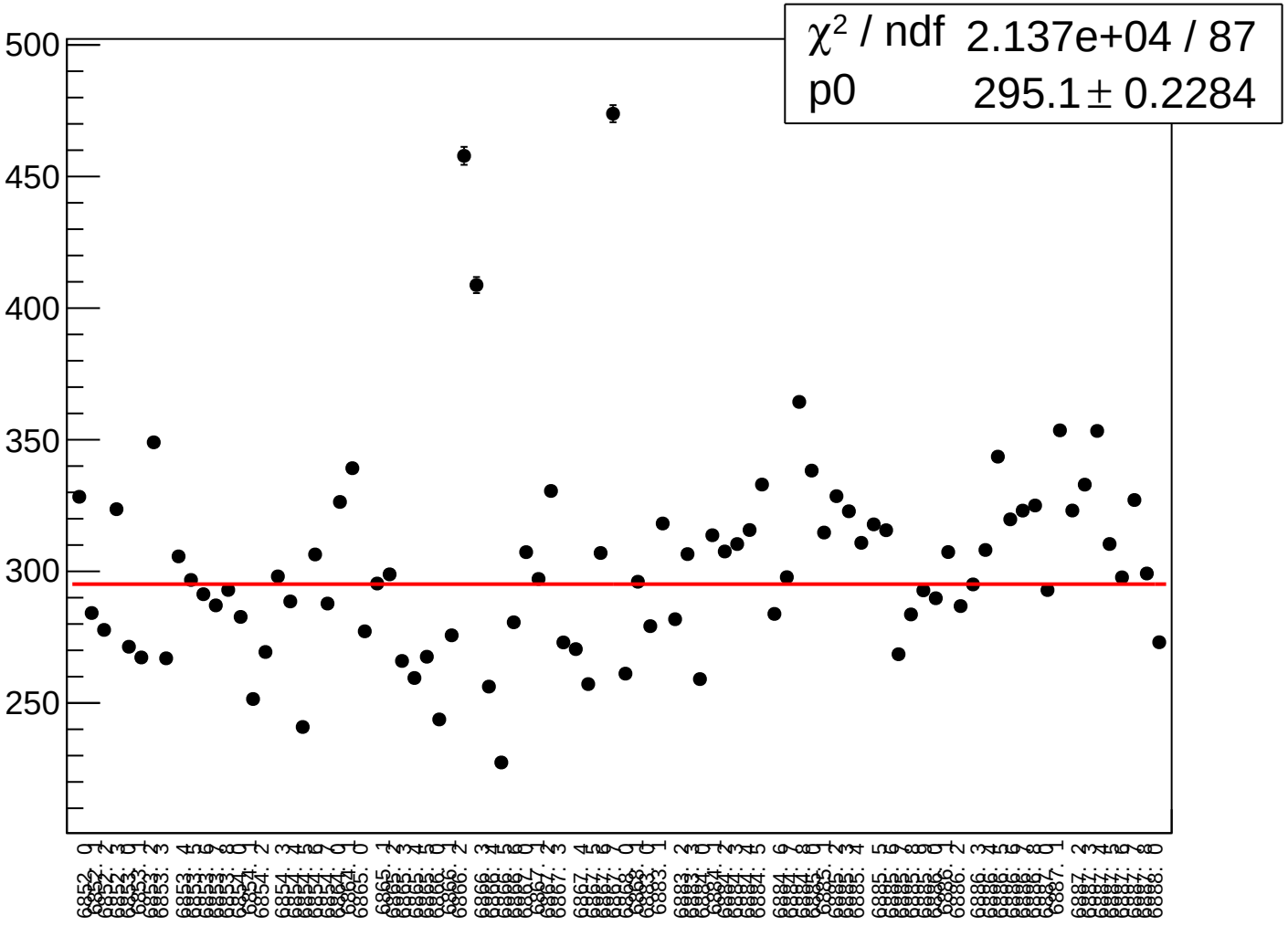

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.27 / 87
p0 0.1947 ± 0.323
pull
Entries 88
Mean −24.56
Std Dev 0

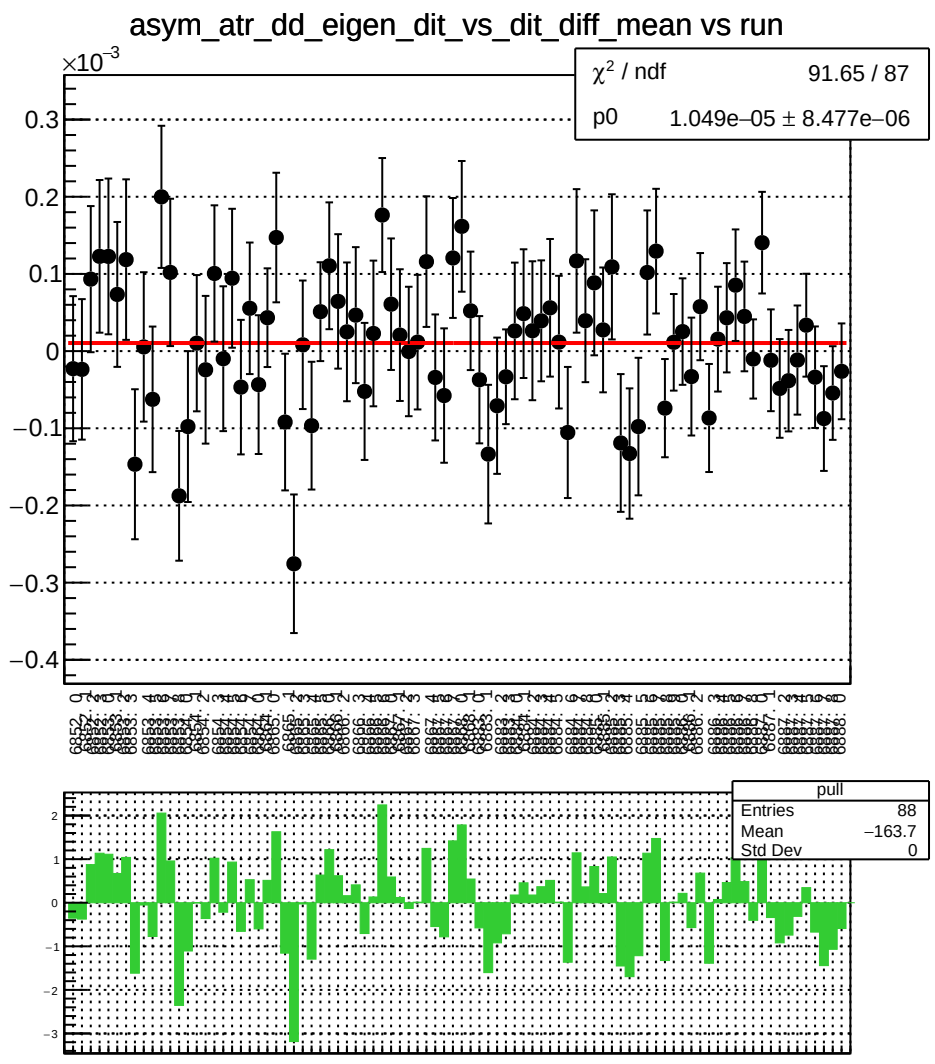

pull1D
Entries 88
Mean −0.01322
Std Dev 0.9186

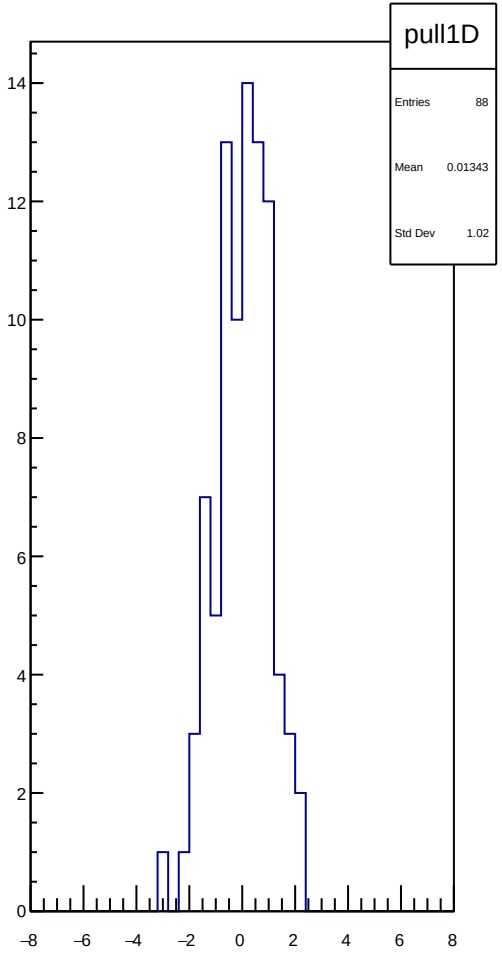

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.137e+04 / 87
p0 295.1 ± 0.2284
500
450
400
350
300
250

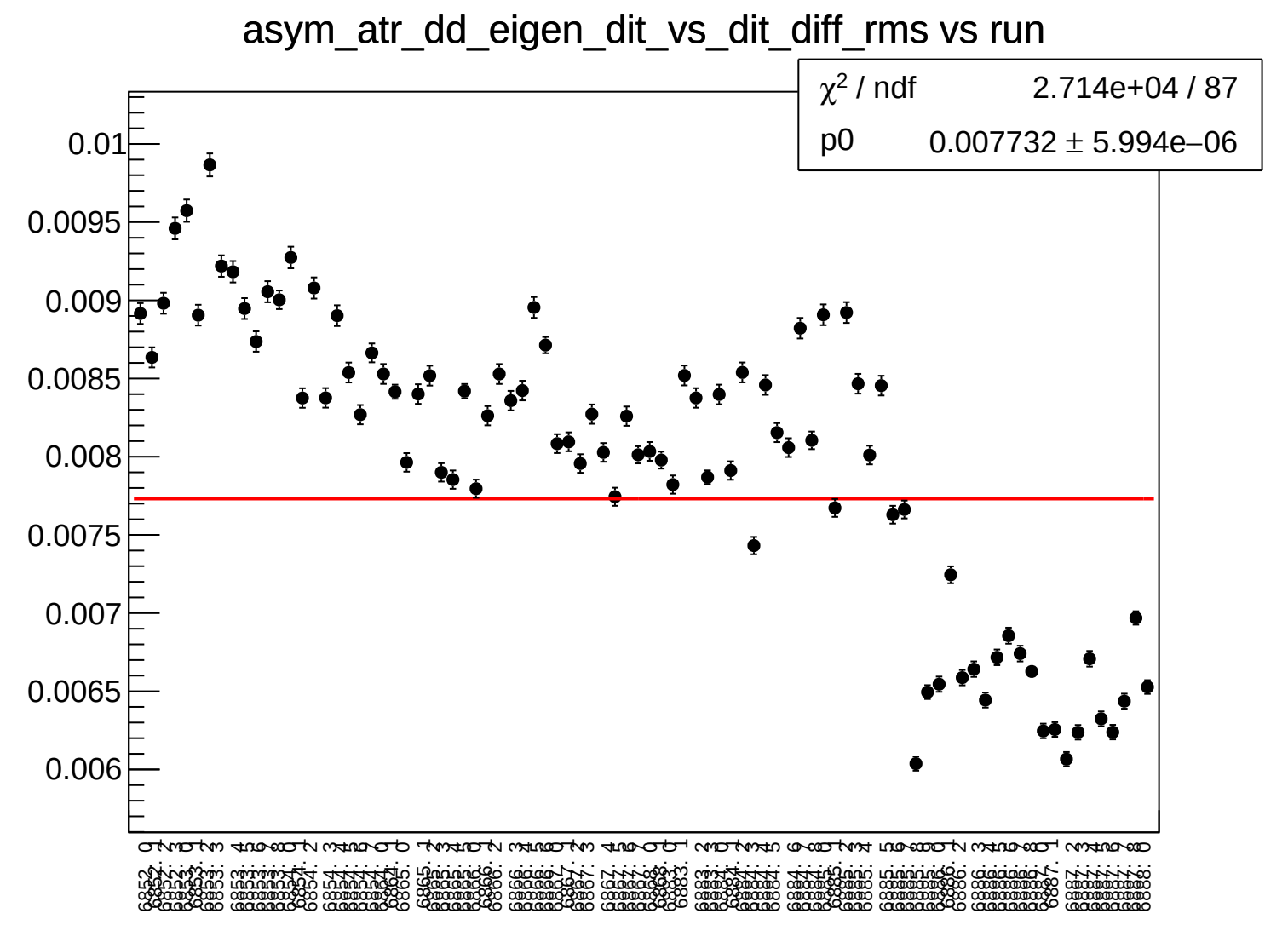

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.27 / 87
p0 0.1947 ± 0.323
pull
Entries 88
Mean −24.56
Std Dev 0

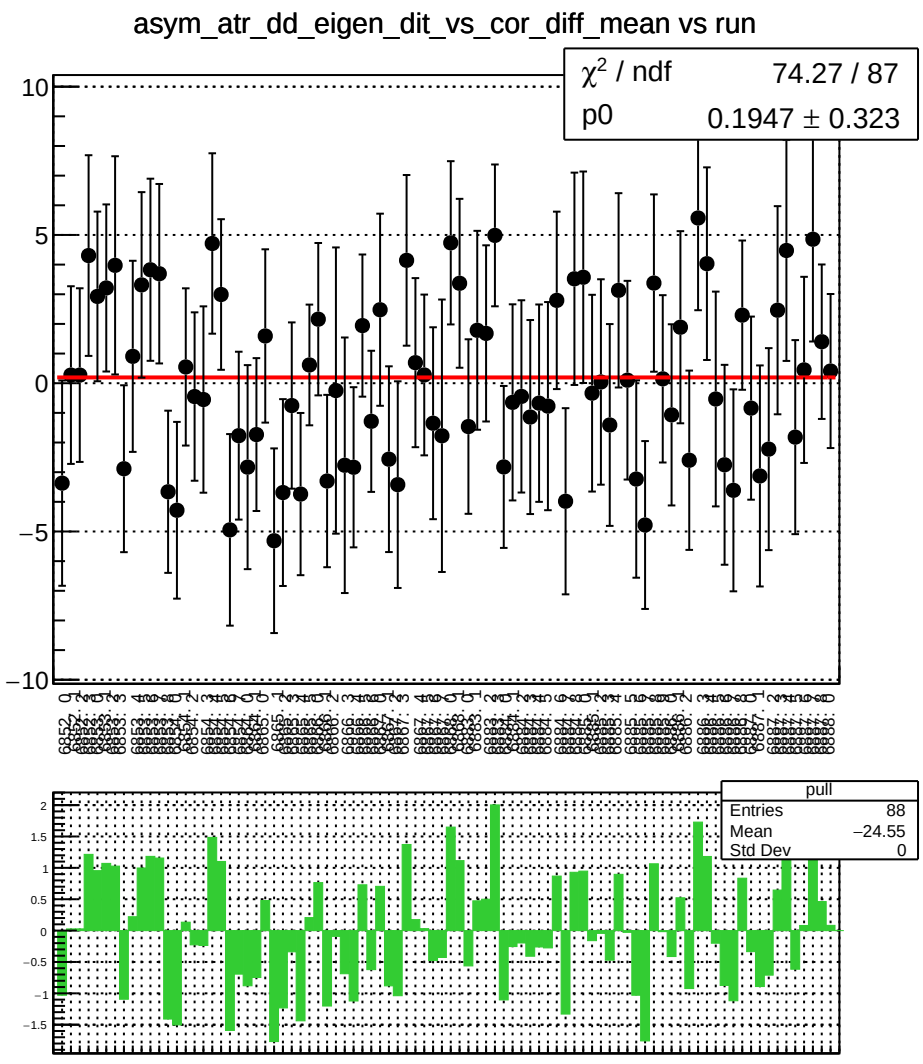

pull1D
Entries 88
Mean −0.01322
Std Dev 0.9186

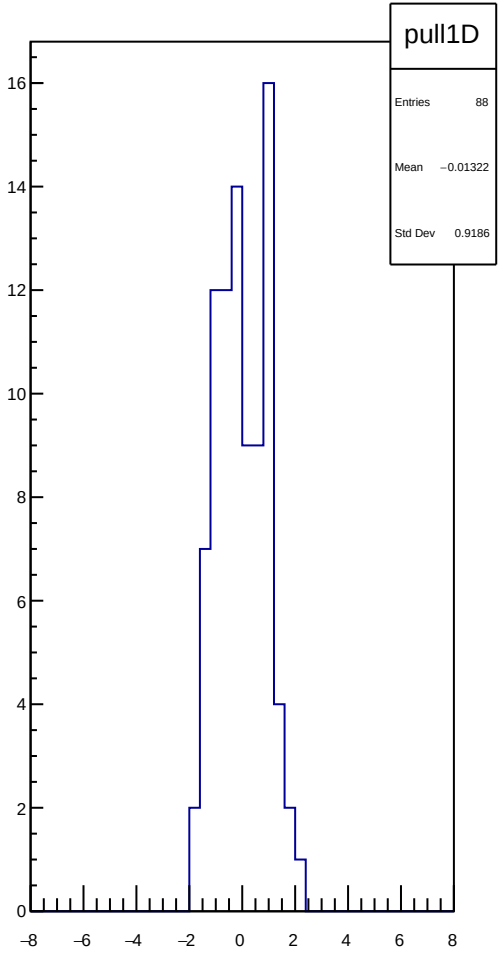

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.137e+04 / 87
p0 295.1 ± 0.2284
500
450
400
350
300
250

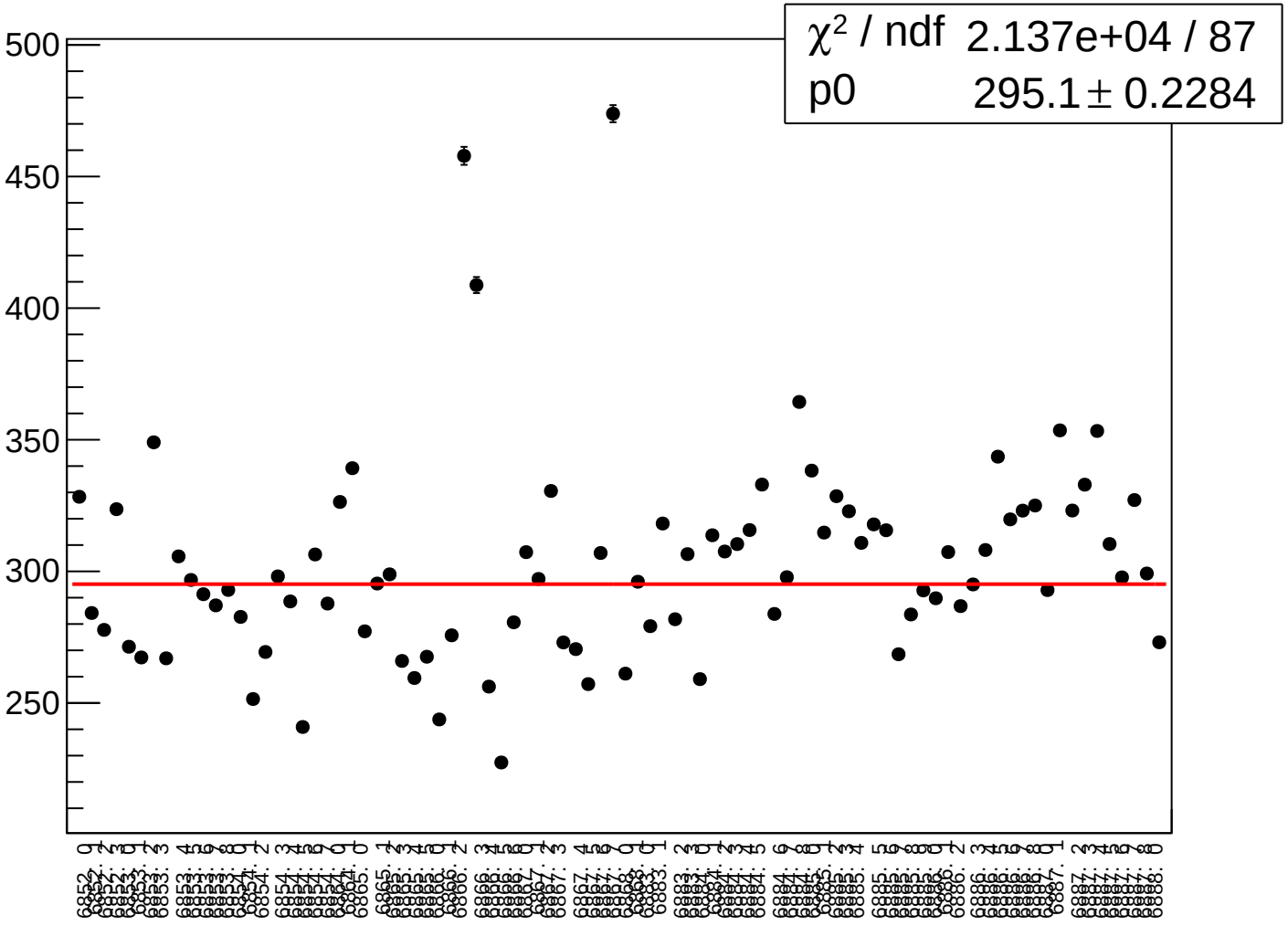

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.65 / 87
p0 1.049e−05 ± 8.477e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 88
Mean −163.7
Std Dev 0
2
1
0
−1
−2
−3

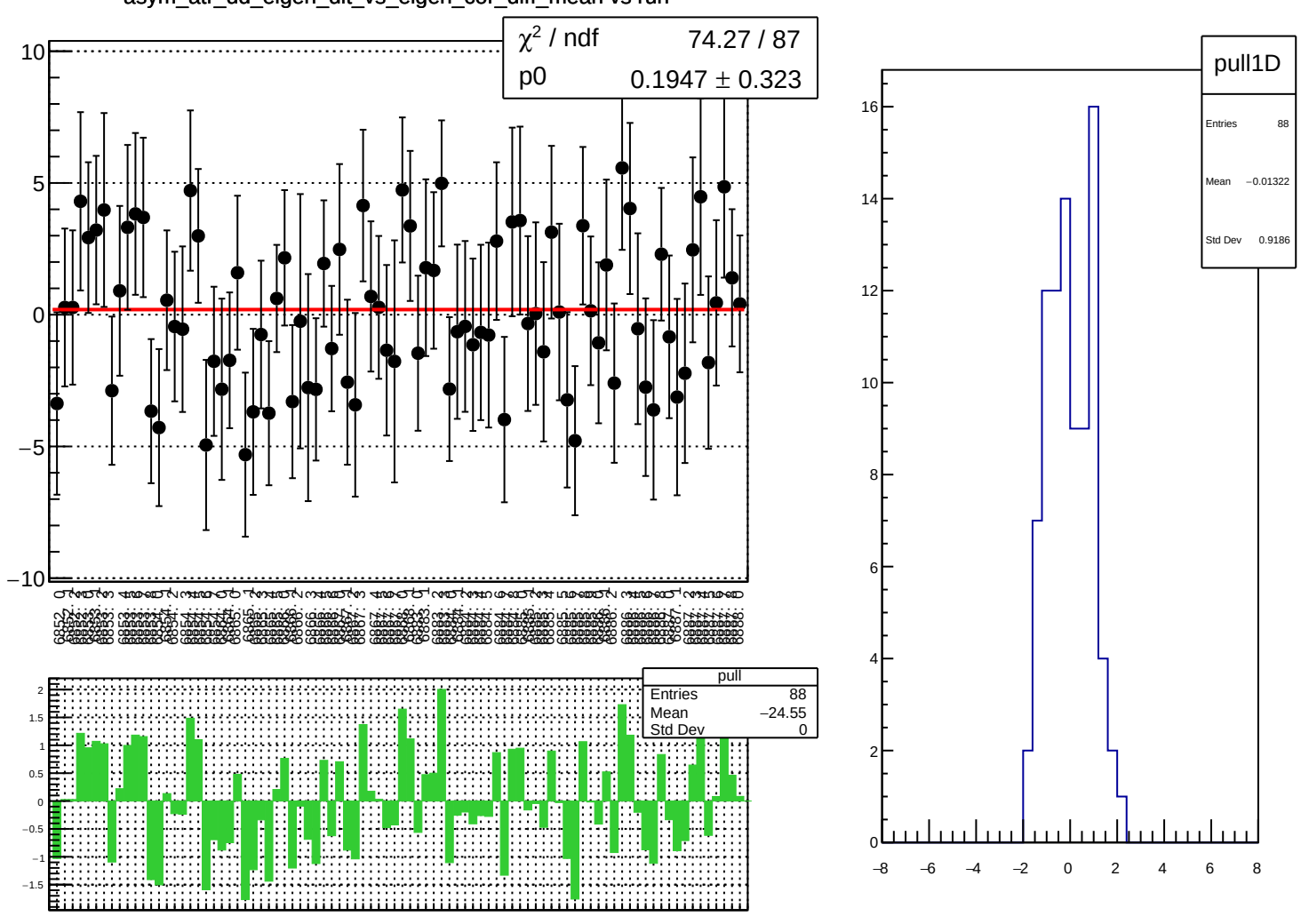

pull1D
Entries 88
Mean 0.01343
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

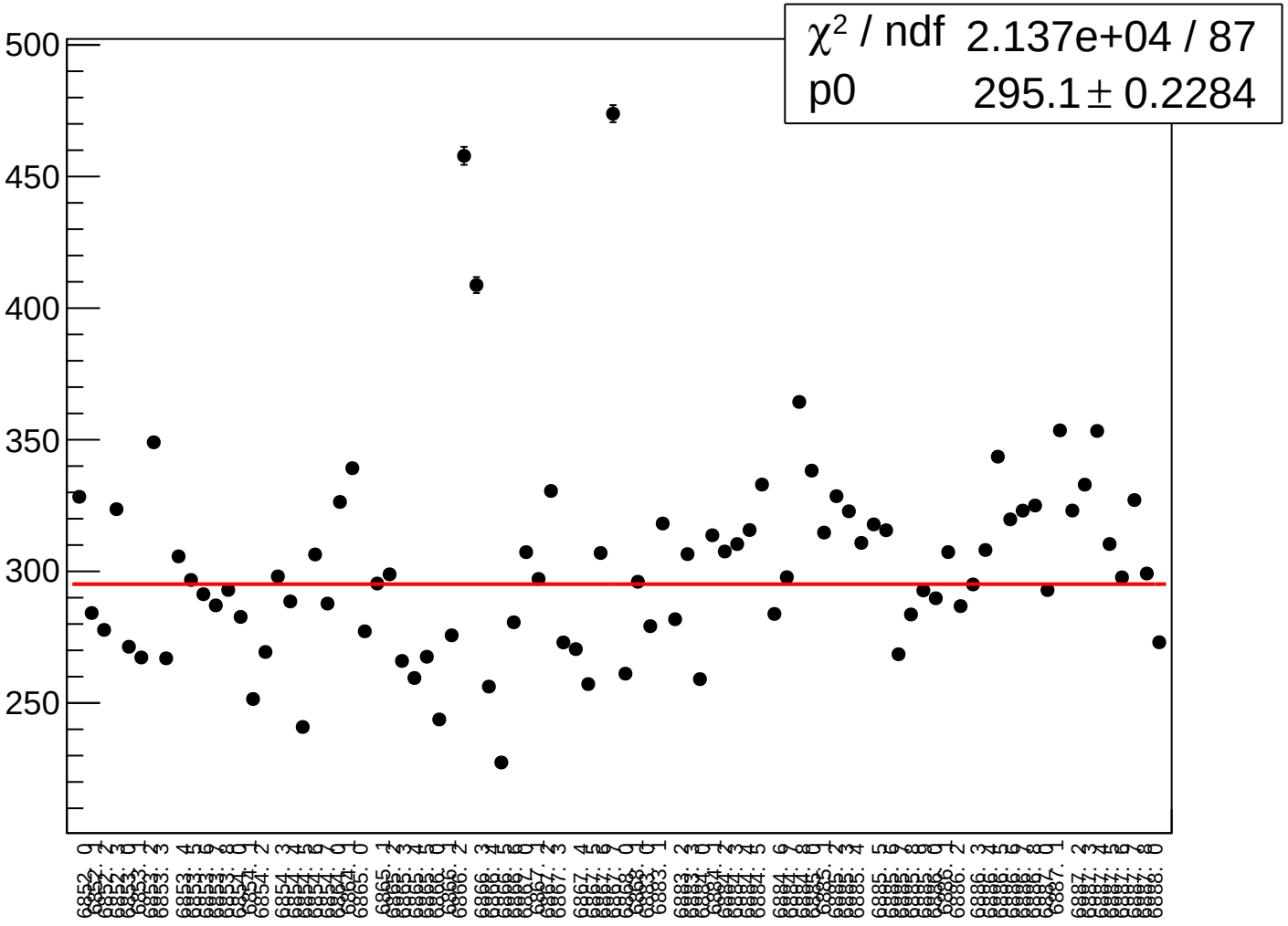

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.714e+04 / 87
p0 0.007732 ± 5.994e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

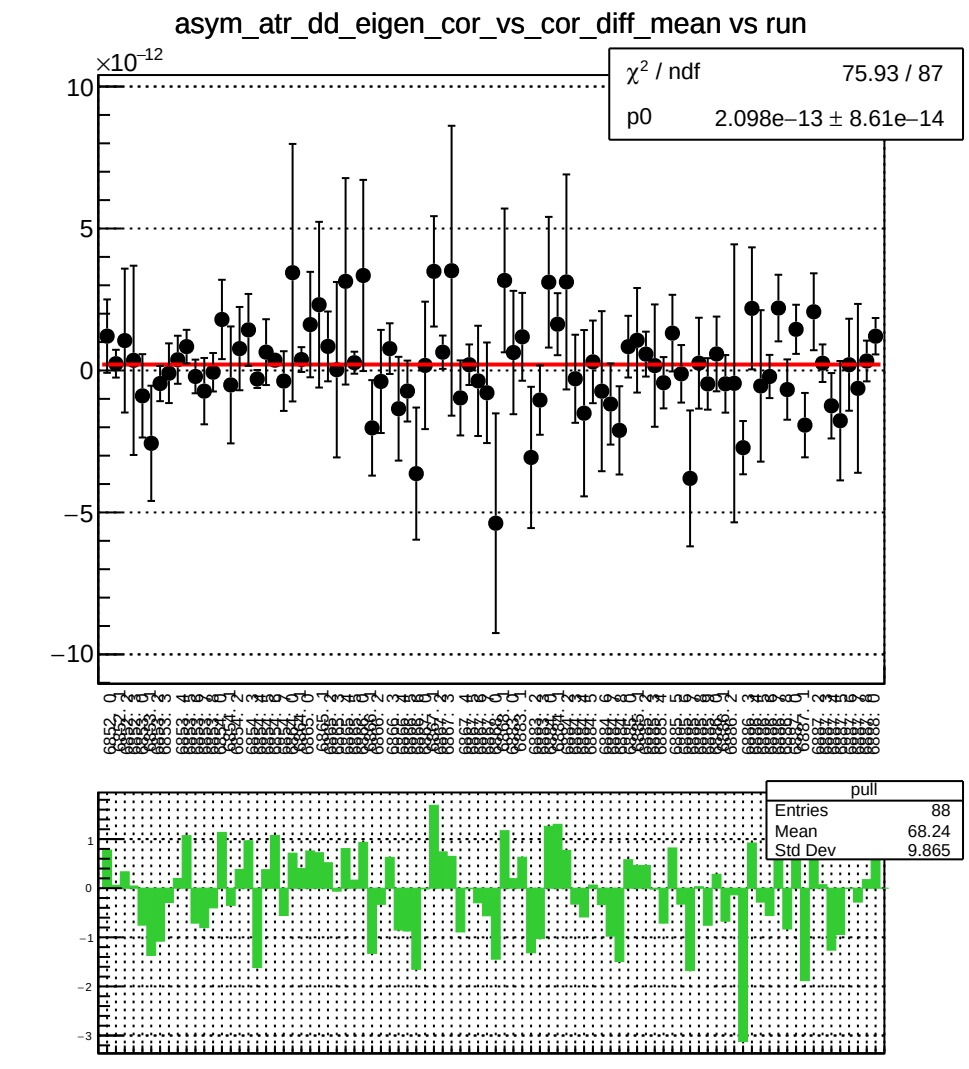

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.27 / 87
p0 0.1947 ± 0.323
pull
Entries 88
Mean −24.55
Std Dev 0

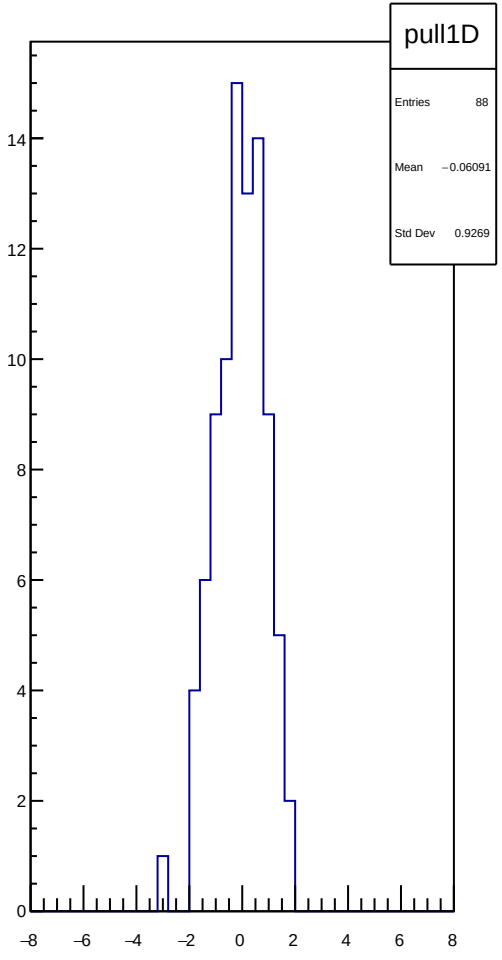

pull1D
Entries 88
Mean −0.01322
Std Dev 0.9186

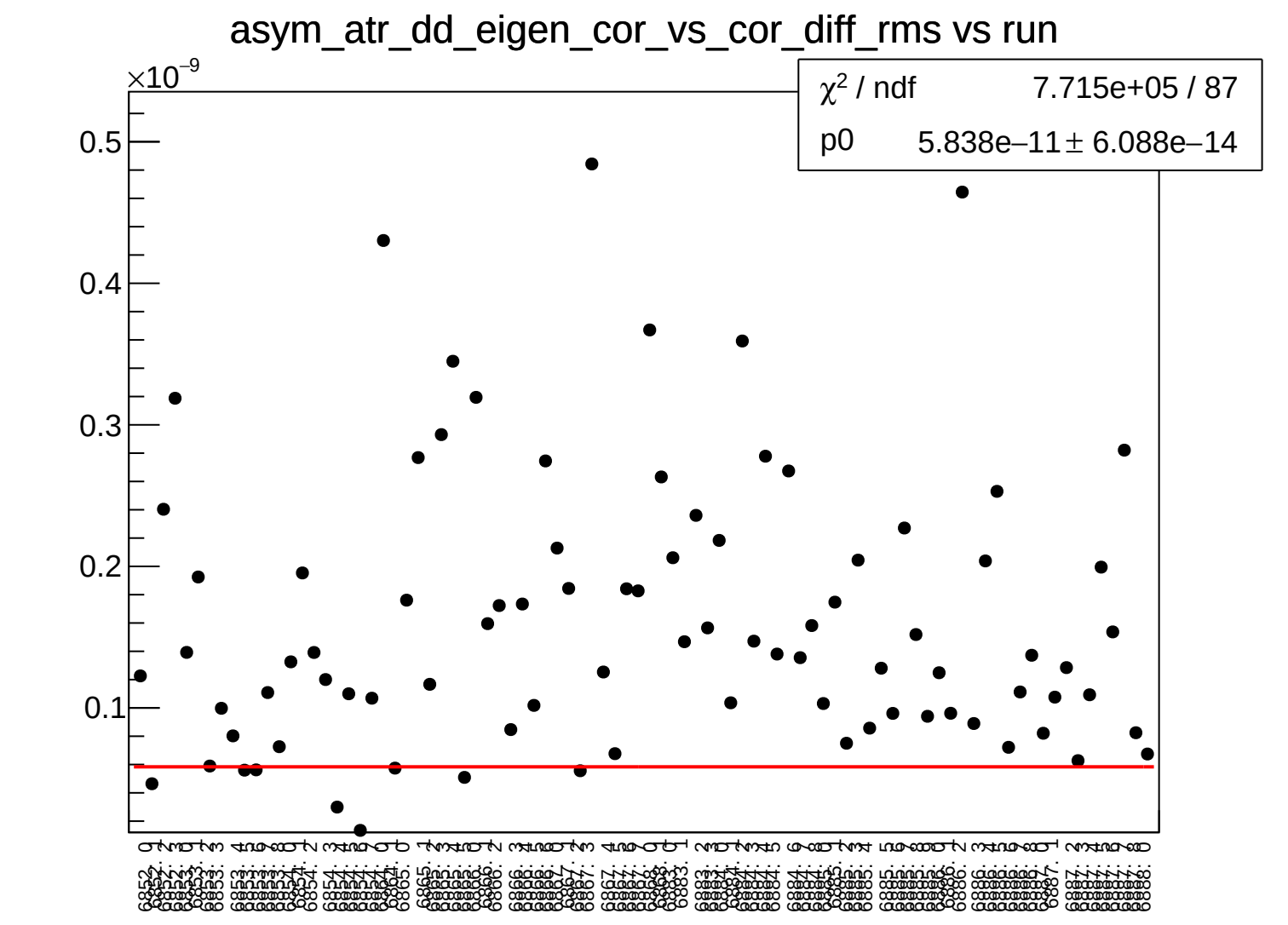

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.137e+04 / 87
p0 295.1 ± 0.2284
500
450
400
350
300
250

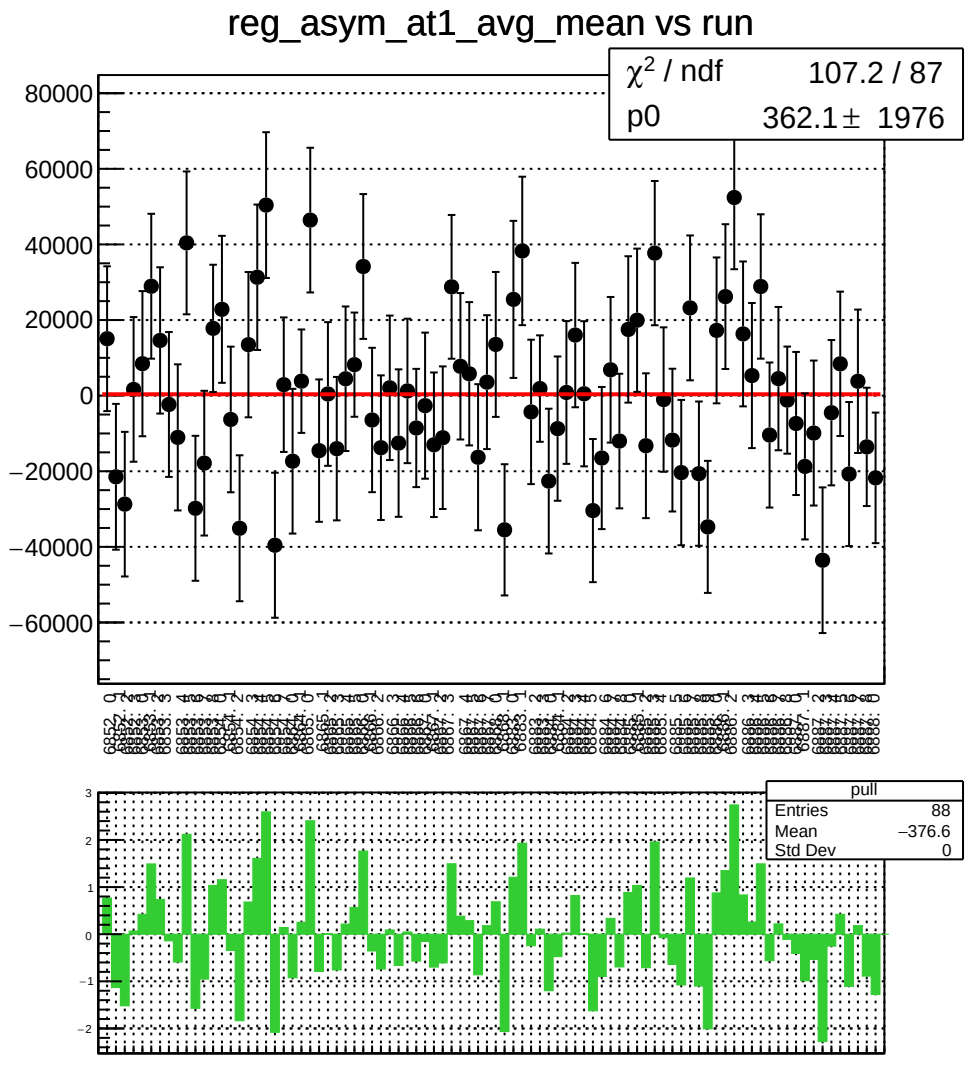

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.27 / 87
p0 0.1947 ± 0.323
pull
Entries 88
Mean −24.55
Std Dev 0
pull1D
Entries 88
Mean −0.01322
Std Dev 0.9186

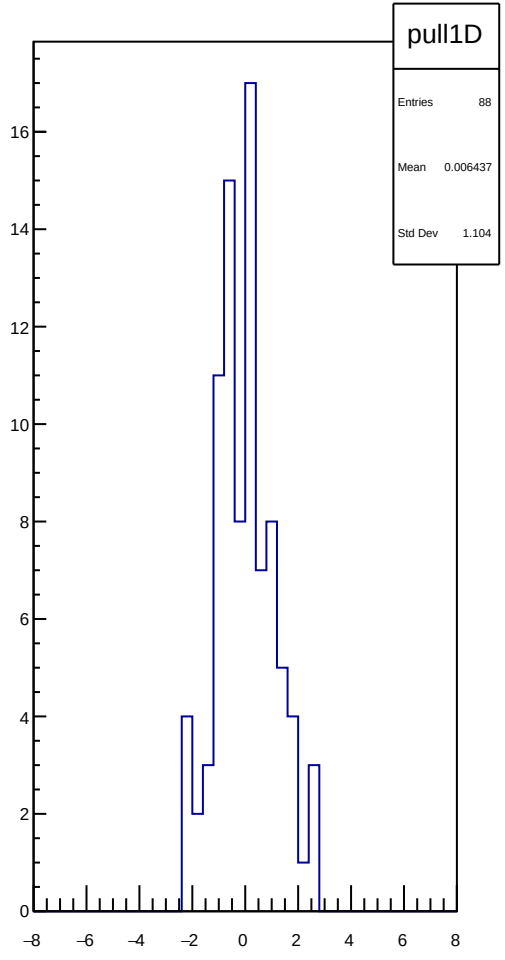

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.137e+04 / 87
p0 295.1 ± 0.2284
500
450
400
350
300
250

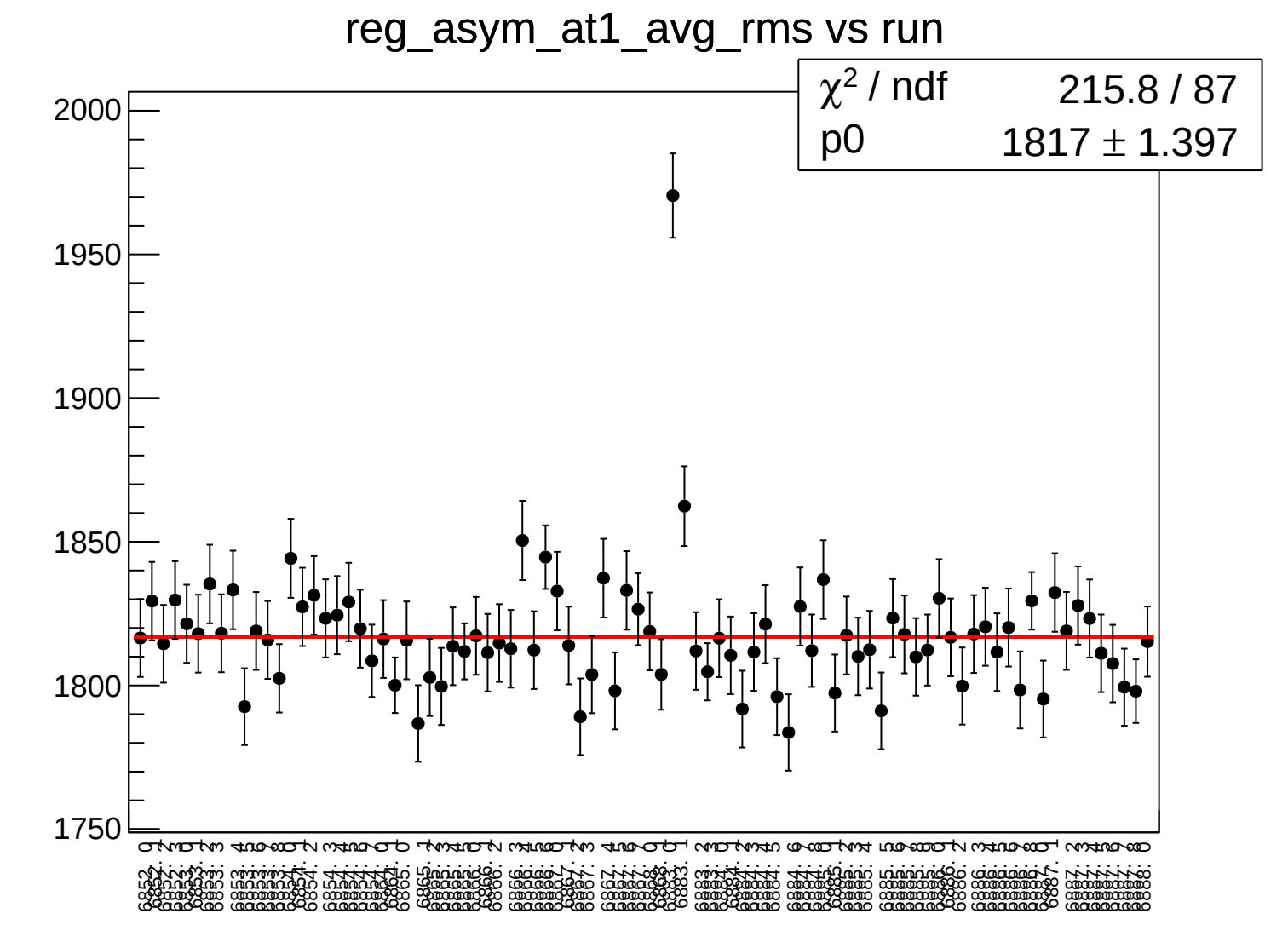

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.93 / 87
p0 2.098e−13 ± 8.61e−14
pull
Entries 88
Mean 68.24
Std Dev 9.865

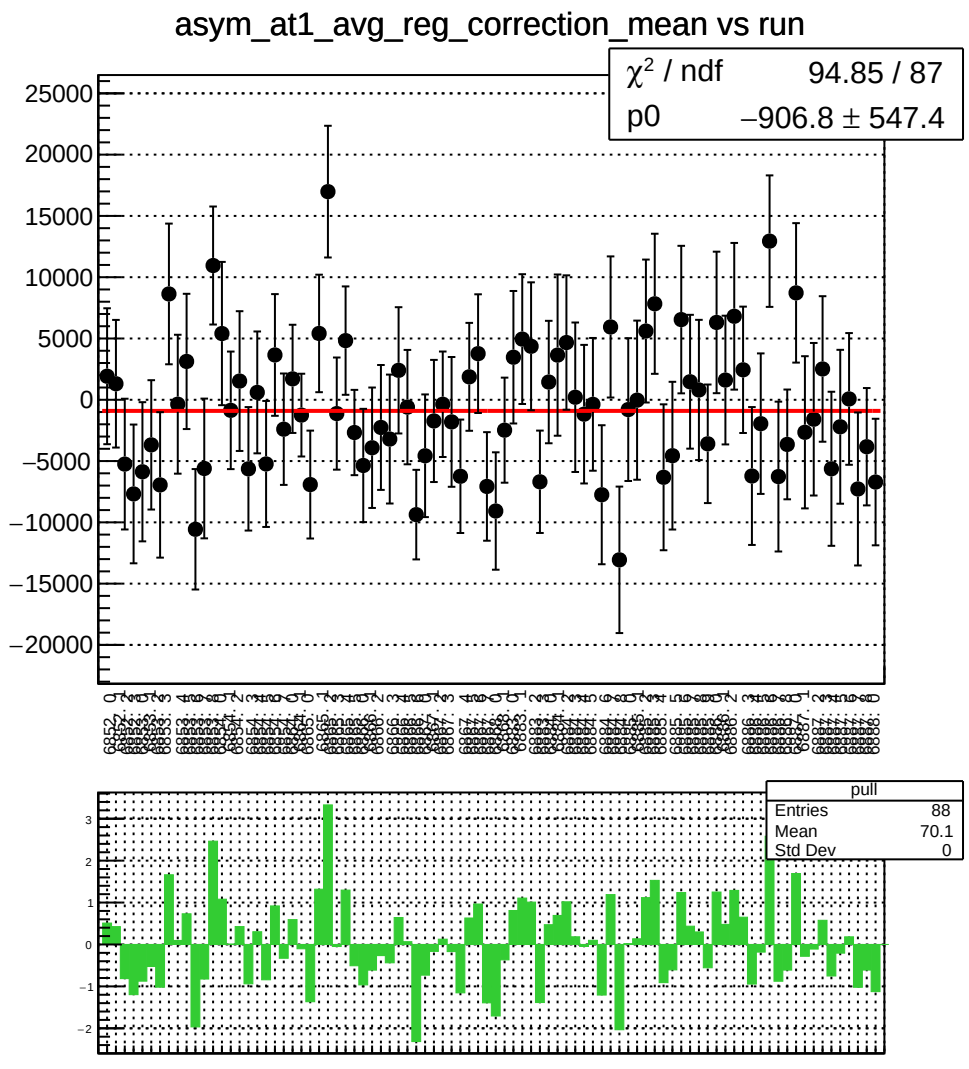

pull1D
Entries 88
Mean −0.06091
Std Dev 0.9269

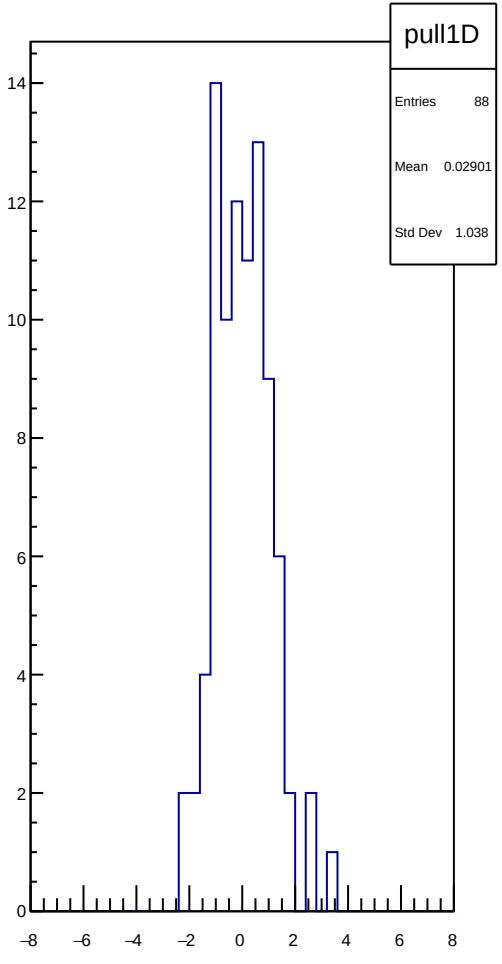

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.715e+05 / 87
p0 5.838e−11 ± 6.088e−14
0.5
0.4
0.3
0.2
0.1

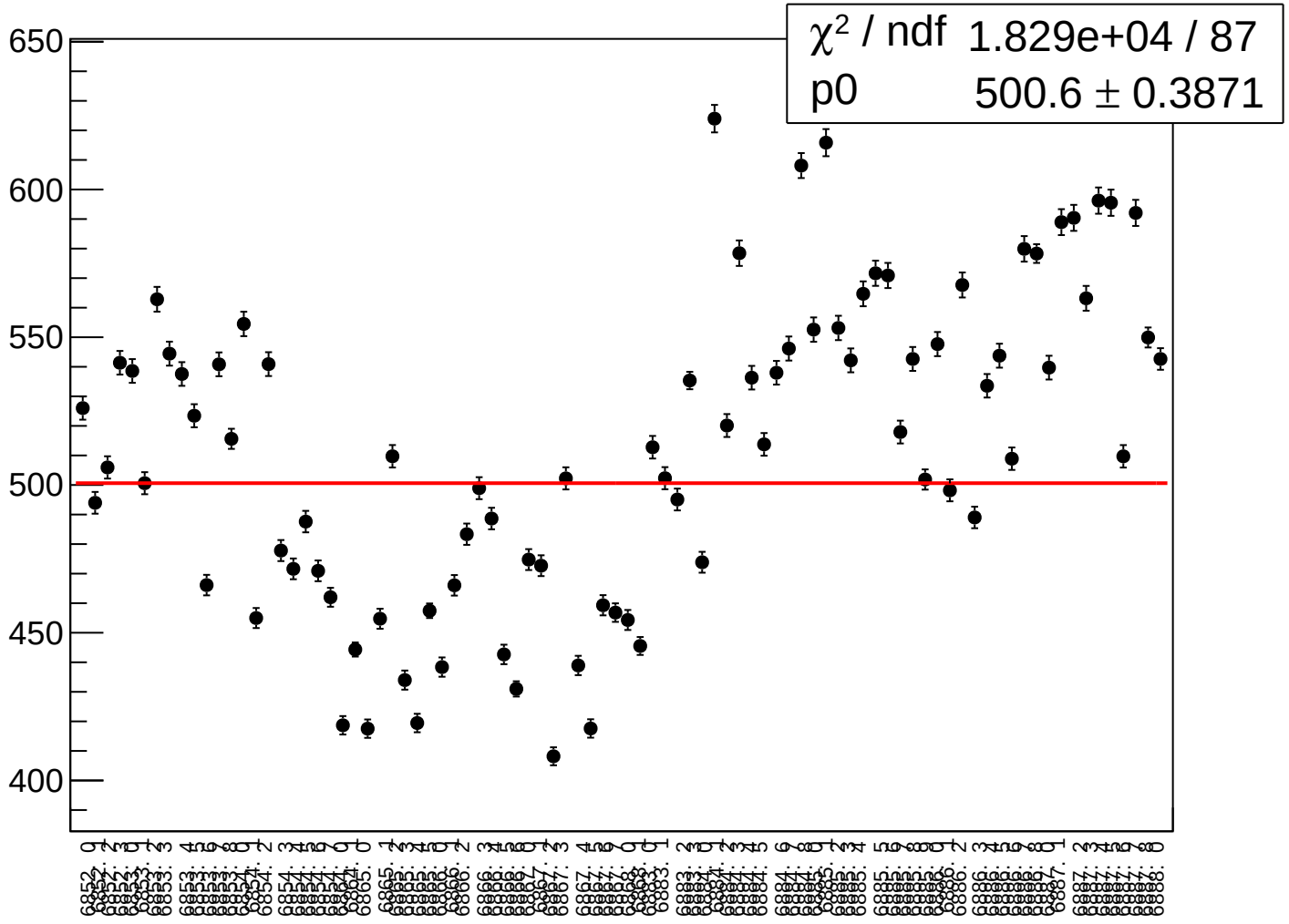

reg_asym_at1_avg_mean vs run
χ² / ndf 107.2 / 87
p0 362.1 ± 1976
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −376.6
Std Dev 0
3
2
1
0
−1
−2

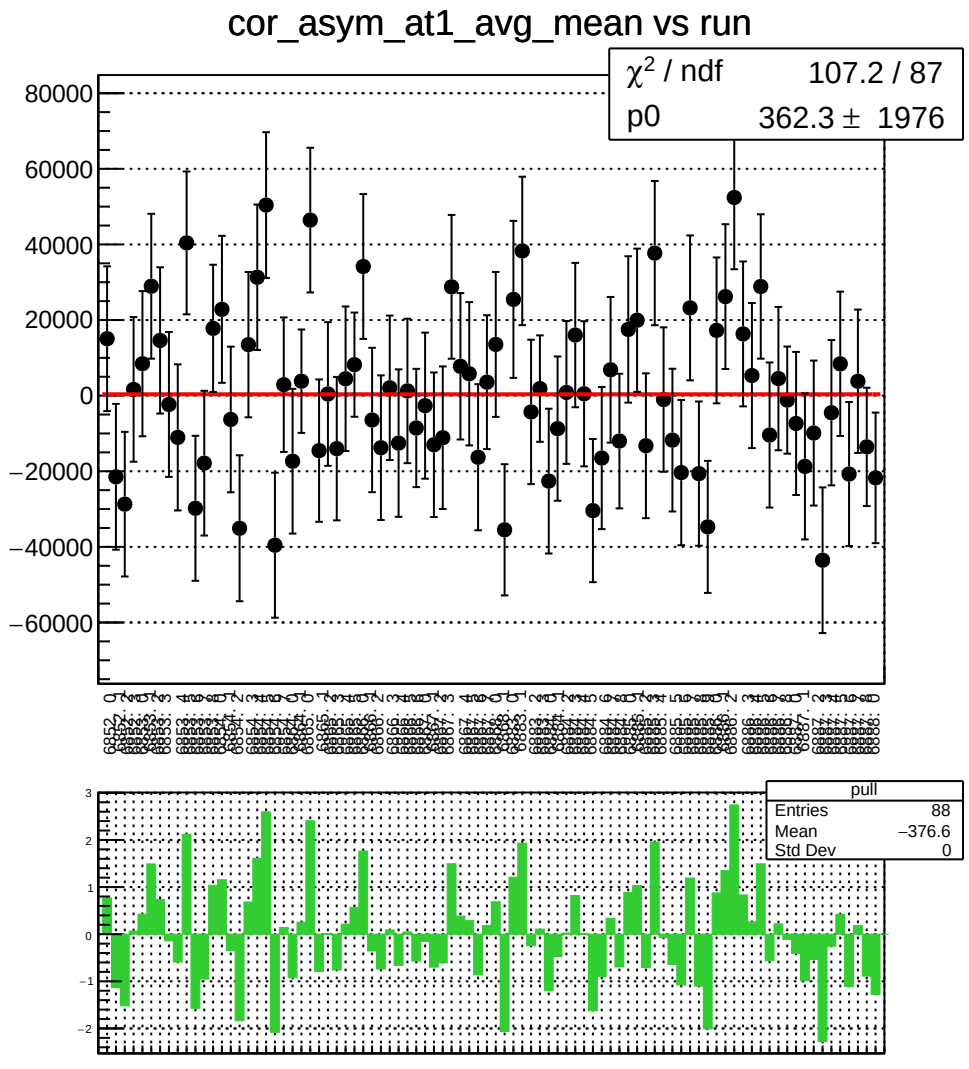

pull1D
Entries 88
Mean 0.006437
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

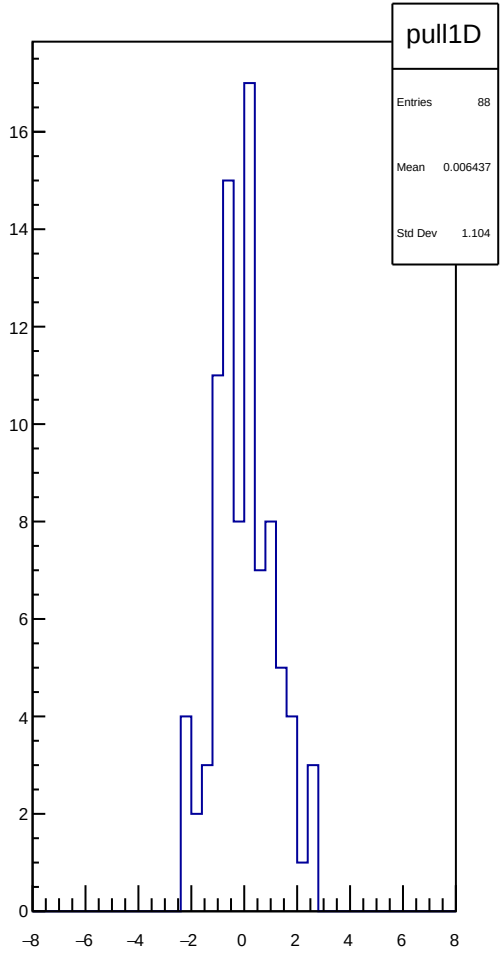

reg_asym_at1_avg_rms vs run
χ² / ndf 215.8 / 87
p0 1817 ± 1.397
2000
1950
1900
1850
1800
1750

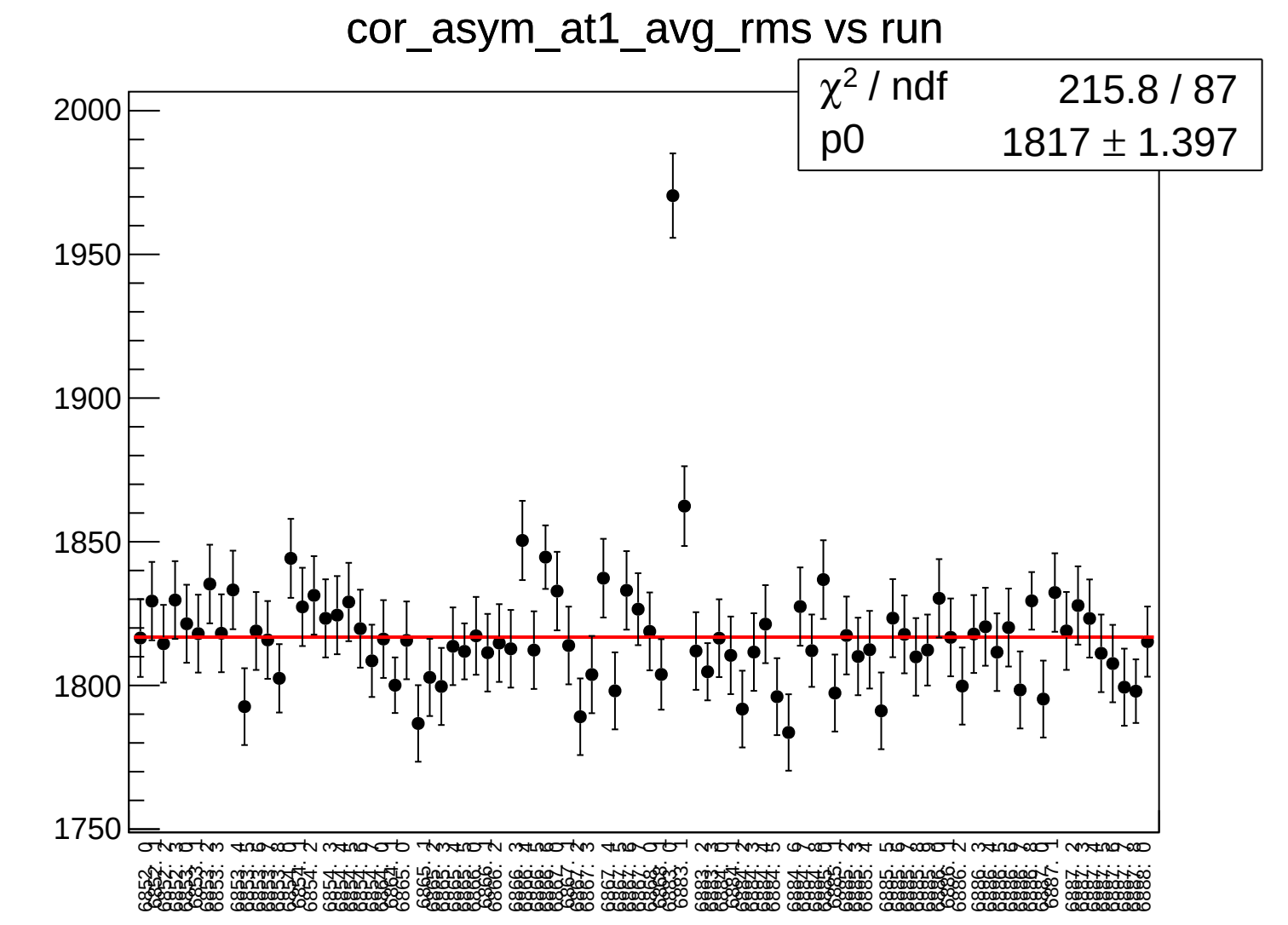

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 94.85 / 87
p0 −906.8 ± 547.4
pull
Entries 88
Mean 70.1
Std Dev 0

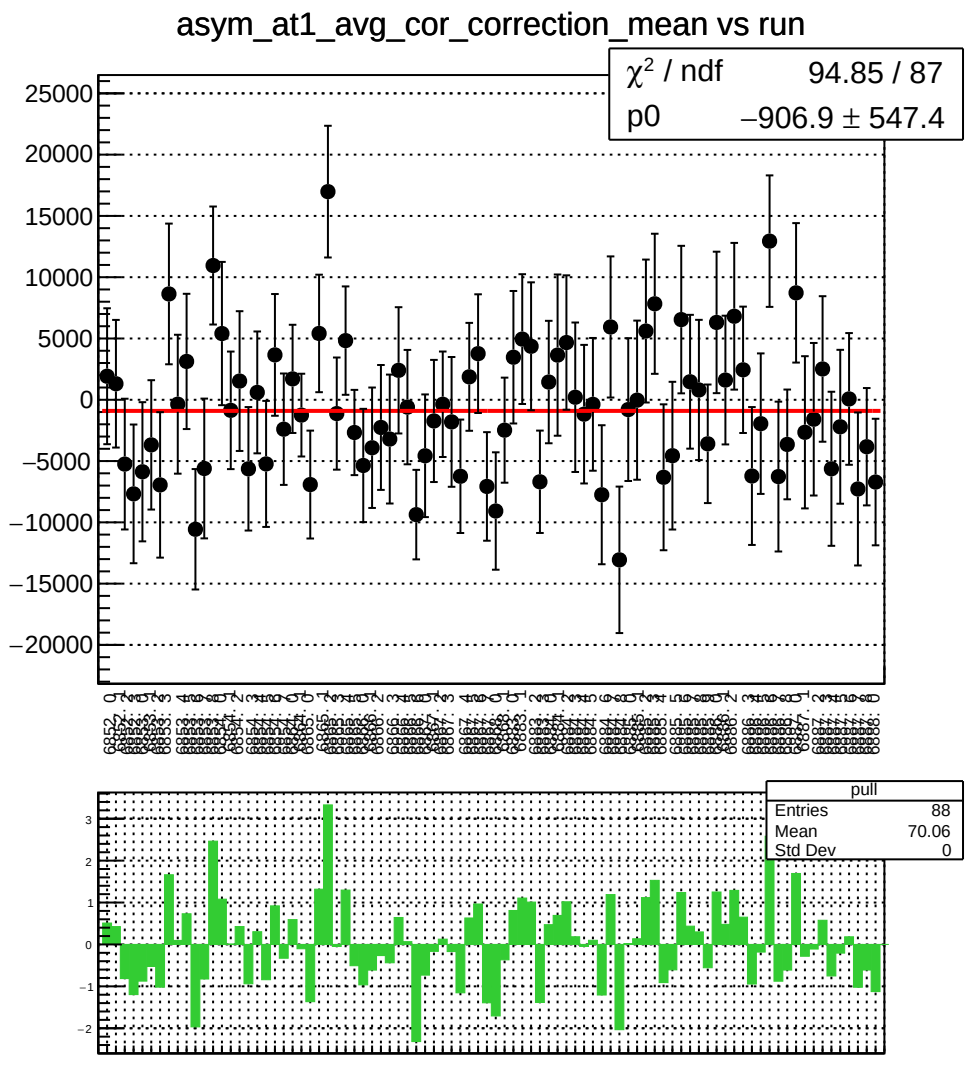

pull1D
Entries 88
Mean 0.02901
Std Dev 1.038

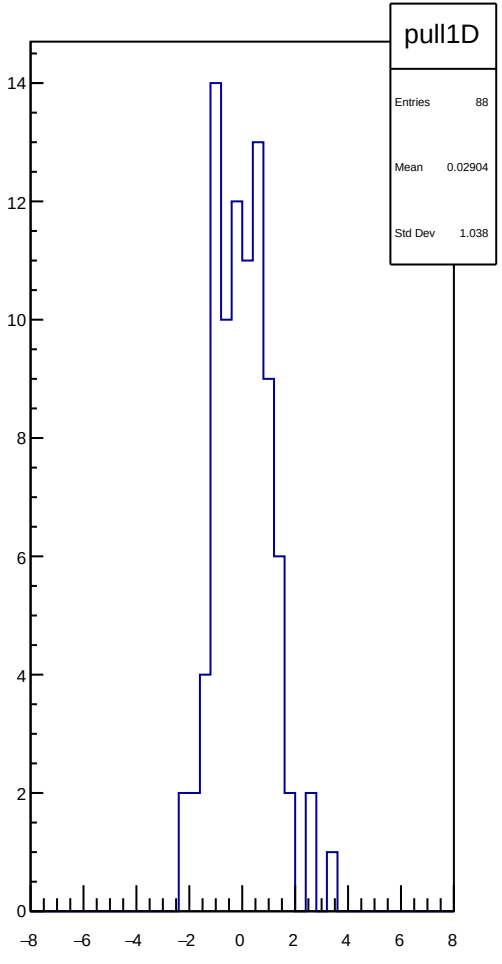

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.829e+04 / 87
p0 500.6 ± 0.3871
650
600
550
500
450
400

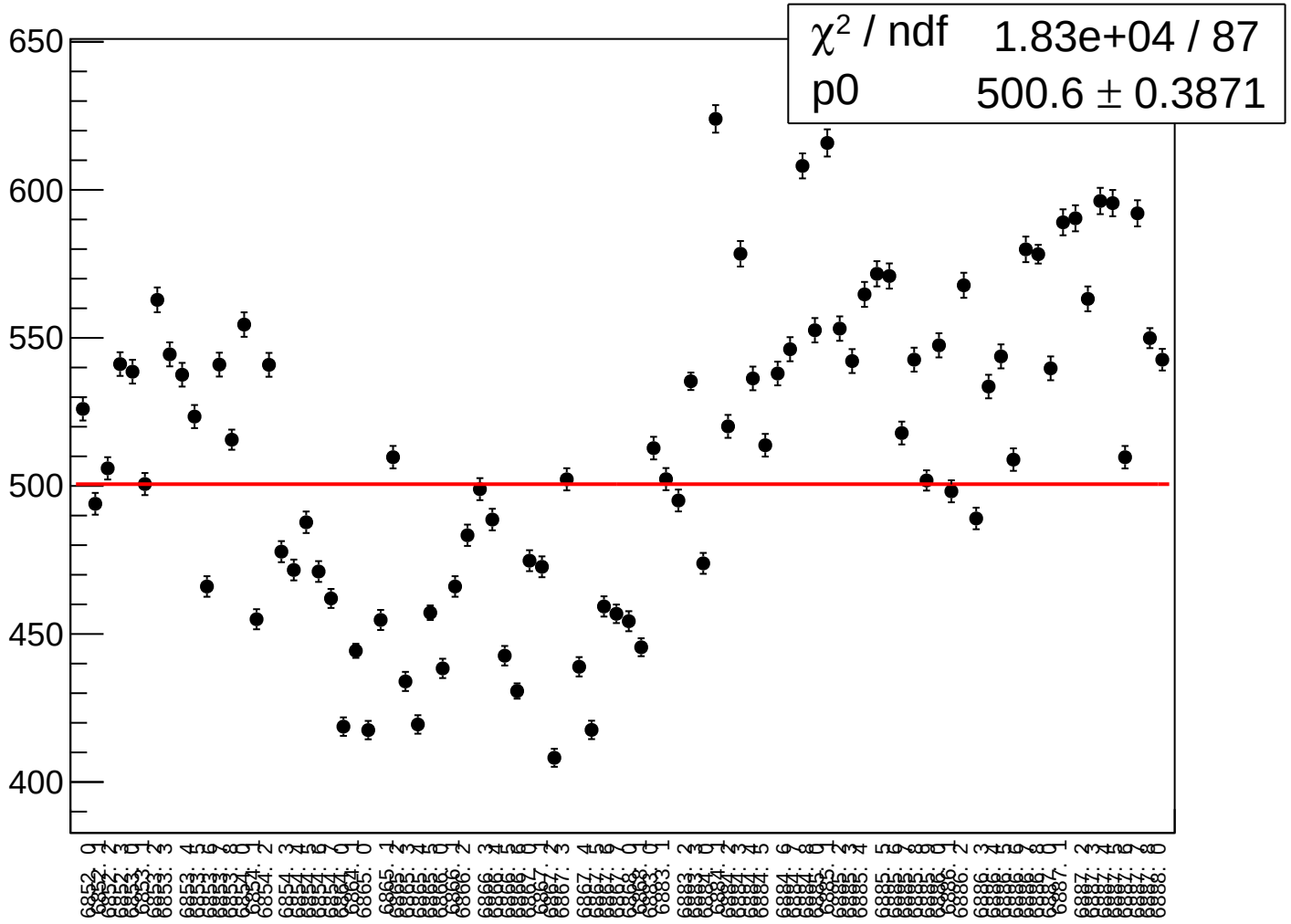

cor_asym_at1_avg_mean vs run
χ² / ndf 107.2 / 87
p0 362.3 ± 1976
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −376.6
Std Dev 0
3
2
1
0
−1
−2

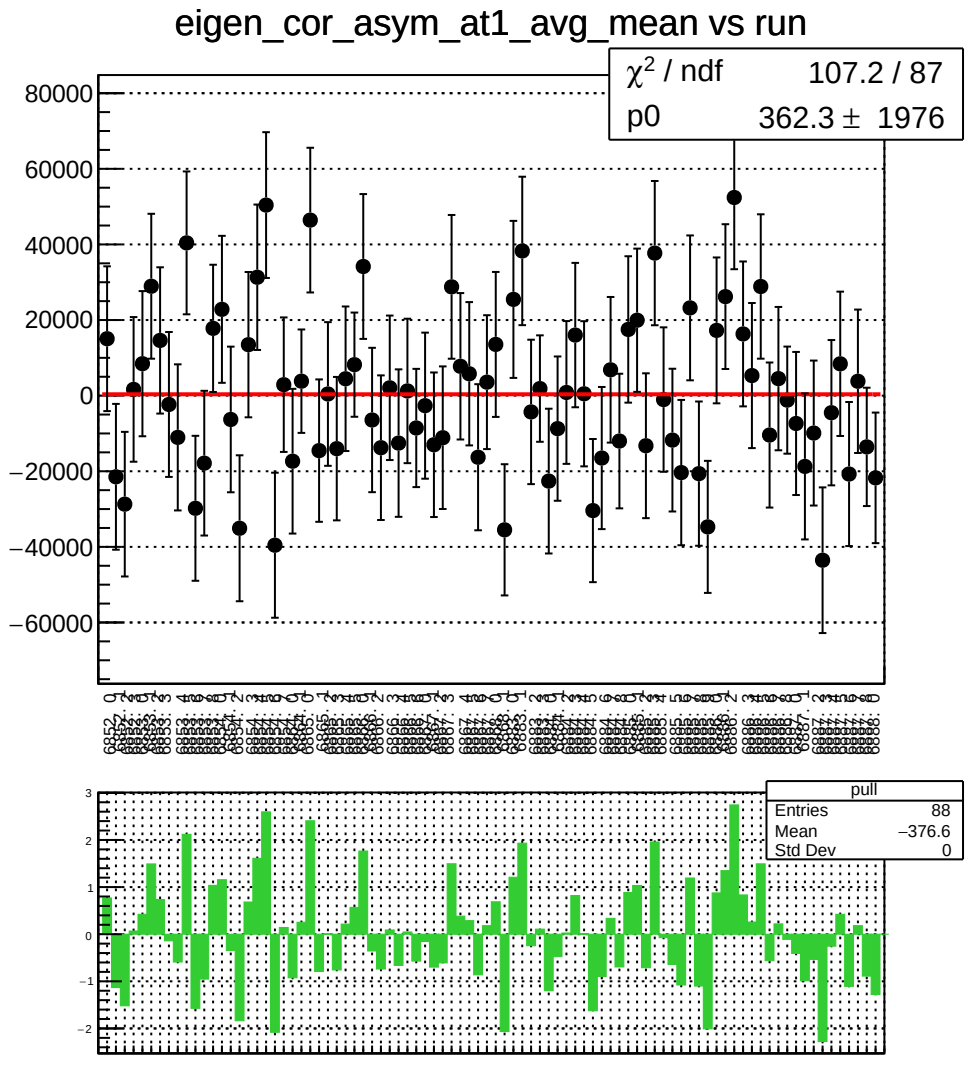

pull1D
Entries 88
Mean 0.006437
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

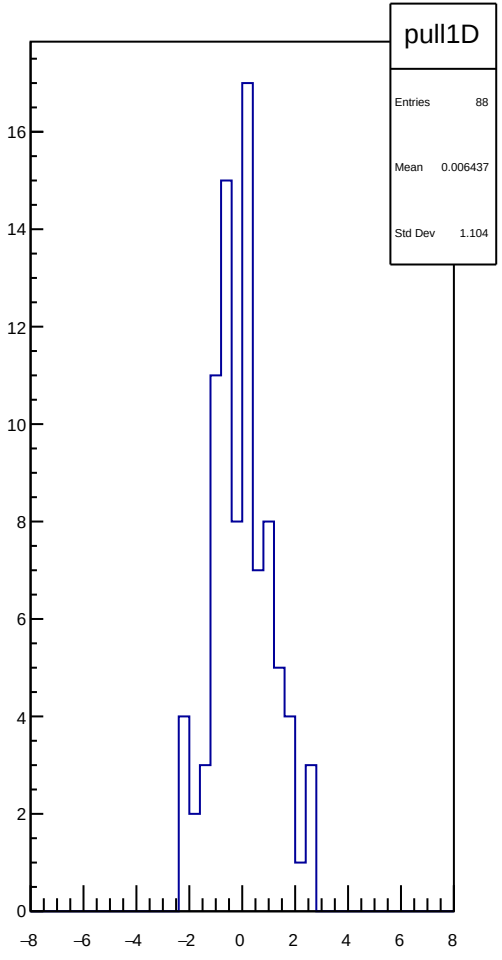

cor_asym_at1_avg_rms vs run
χ² / ndf 215.8 / 87
p0 1817 ± 1.397
2000
1950
1900
1850
1800
1750

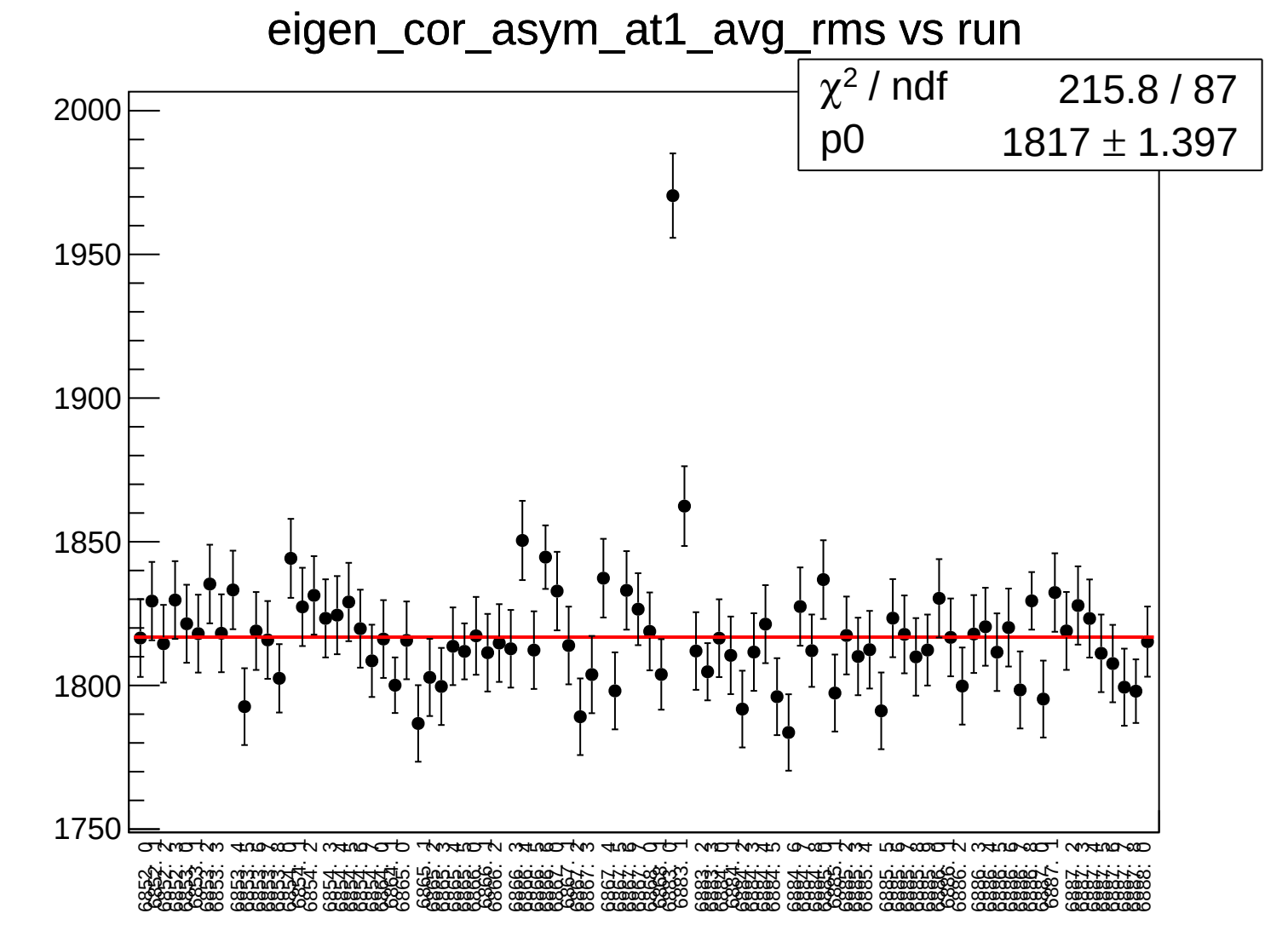

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 94.85 / 87
p0 −906.9 ± 547.4
pull
Entries 88
Mean 70.06
Std Dev 0

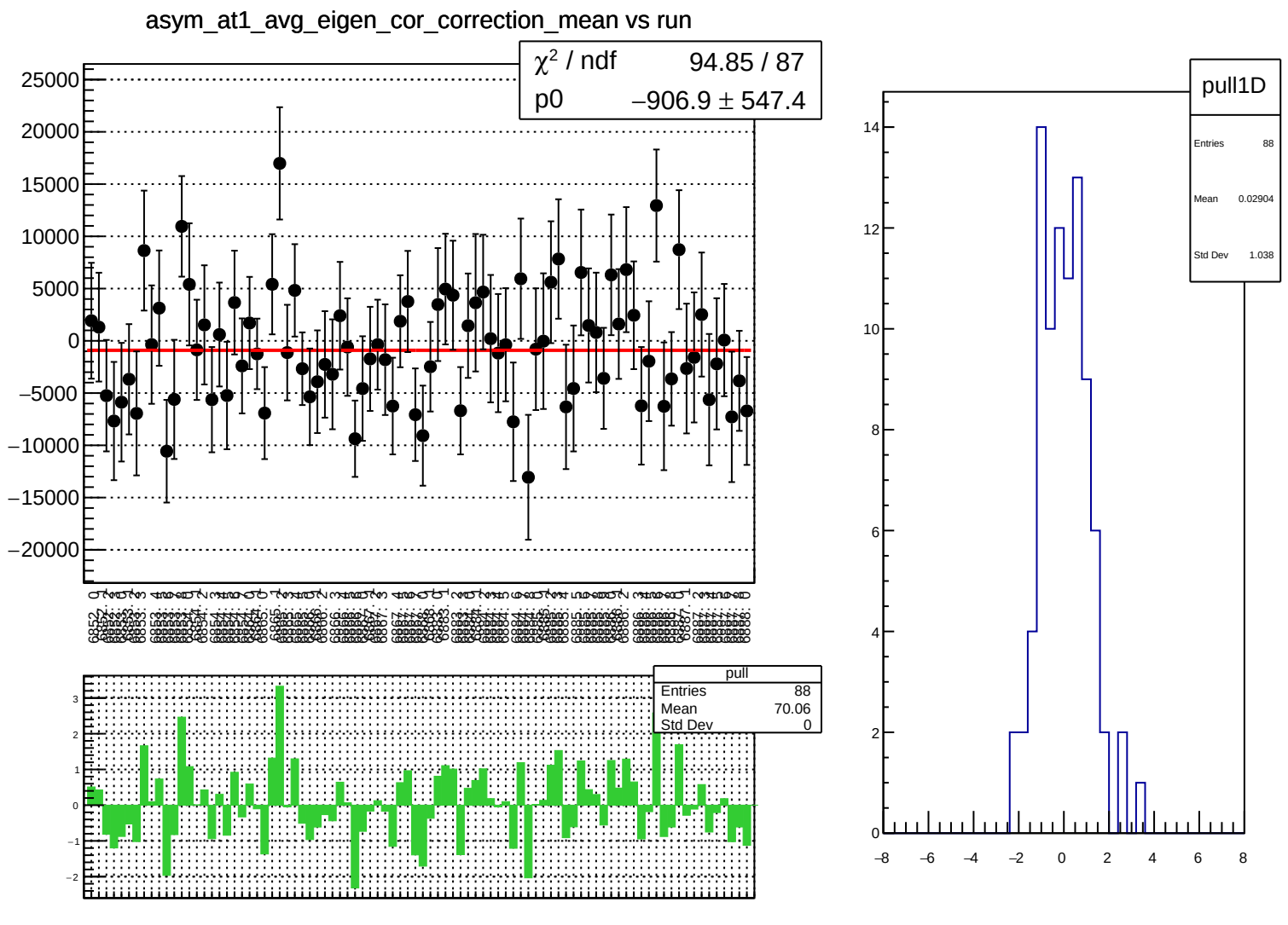

pull1D
Entries 88
Mean 0.02904
Std Dev 1.038

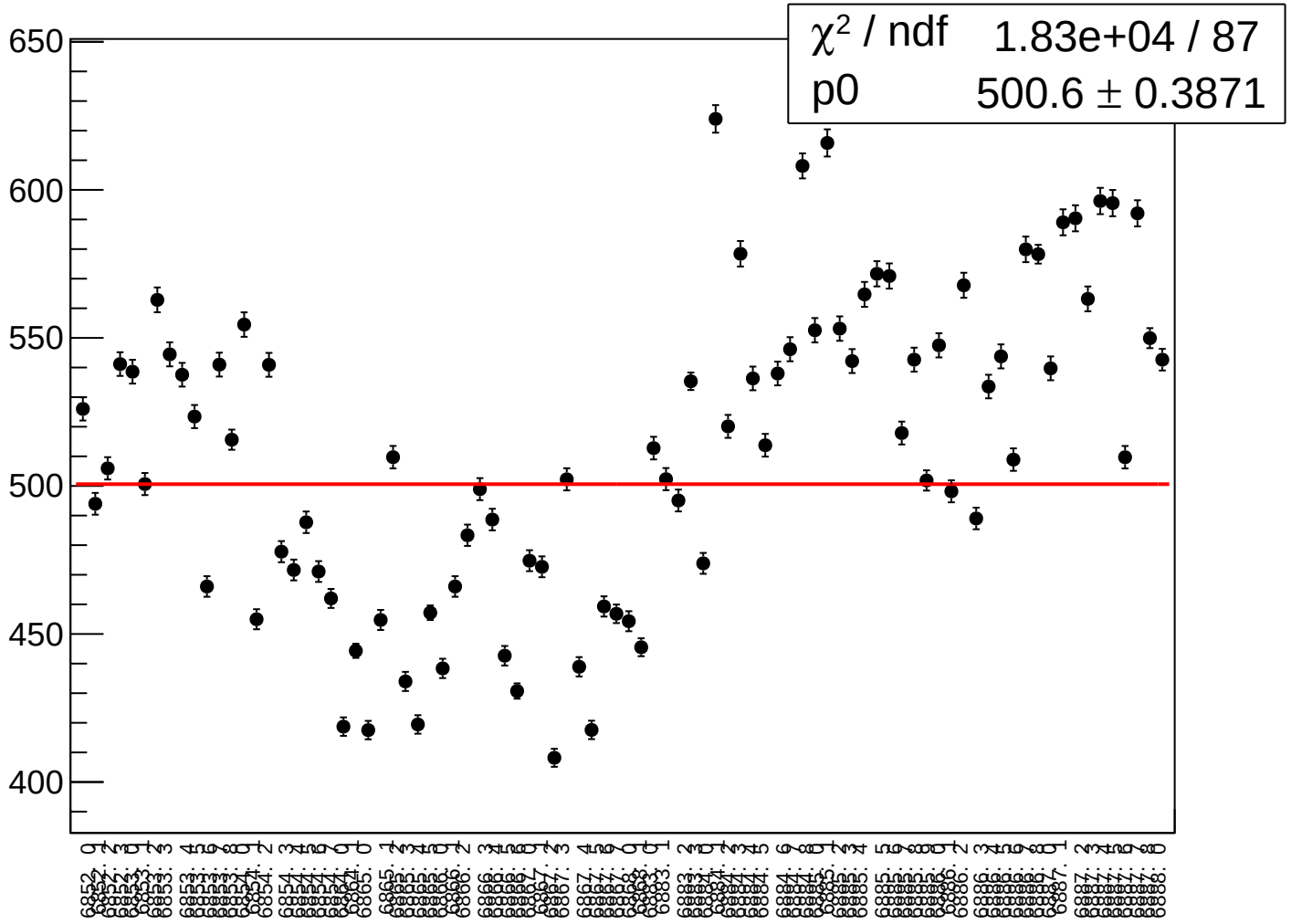

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.83e+04 / 87
p0 500.6 ± 0.3871
650
600
550
500
450
400

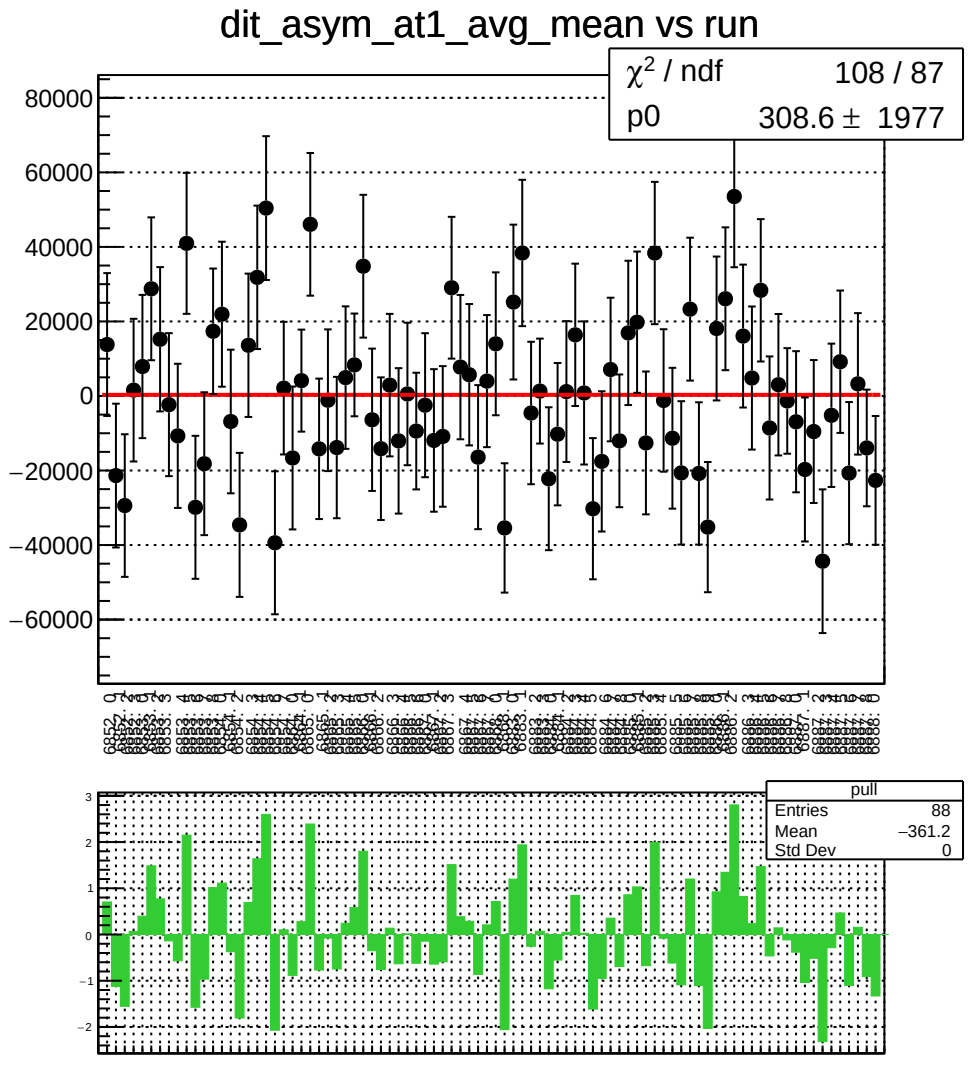

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 107.2 / 87
p0 362.3 ± 1976
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −376.6
Std Dev 0
3
2
1
0
−1
−2

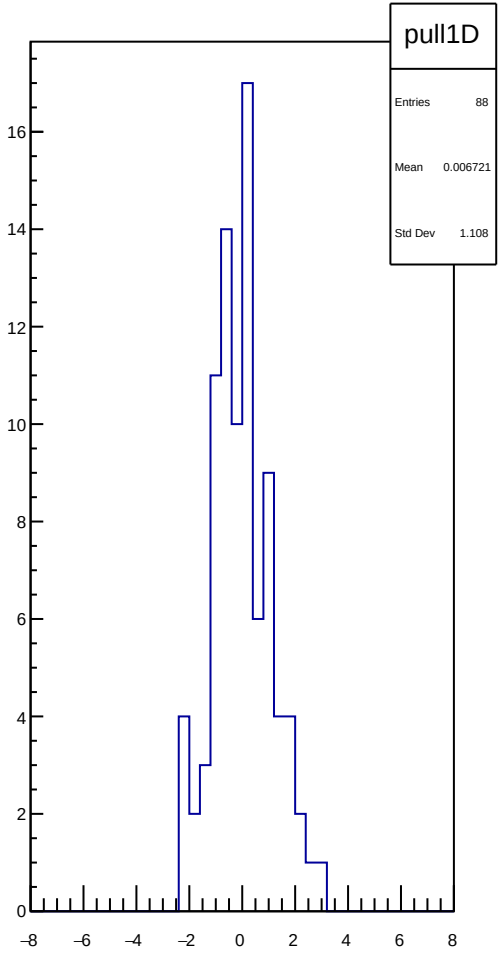

pull1D
Entries 88
Mean 0.006437
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

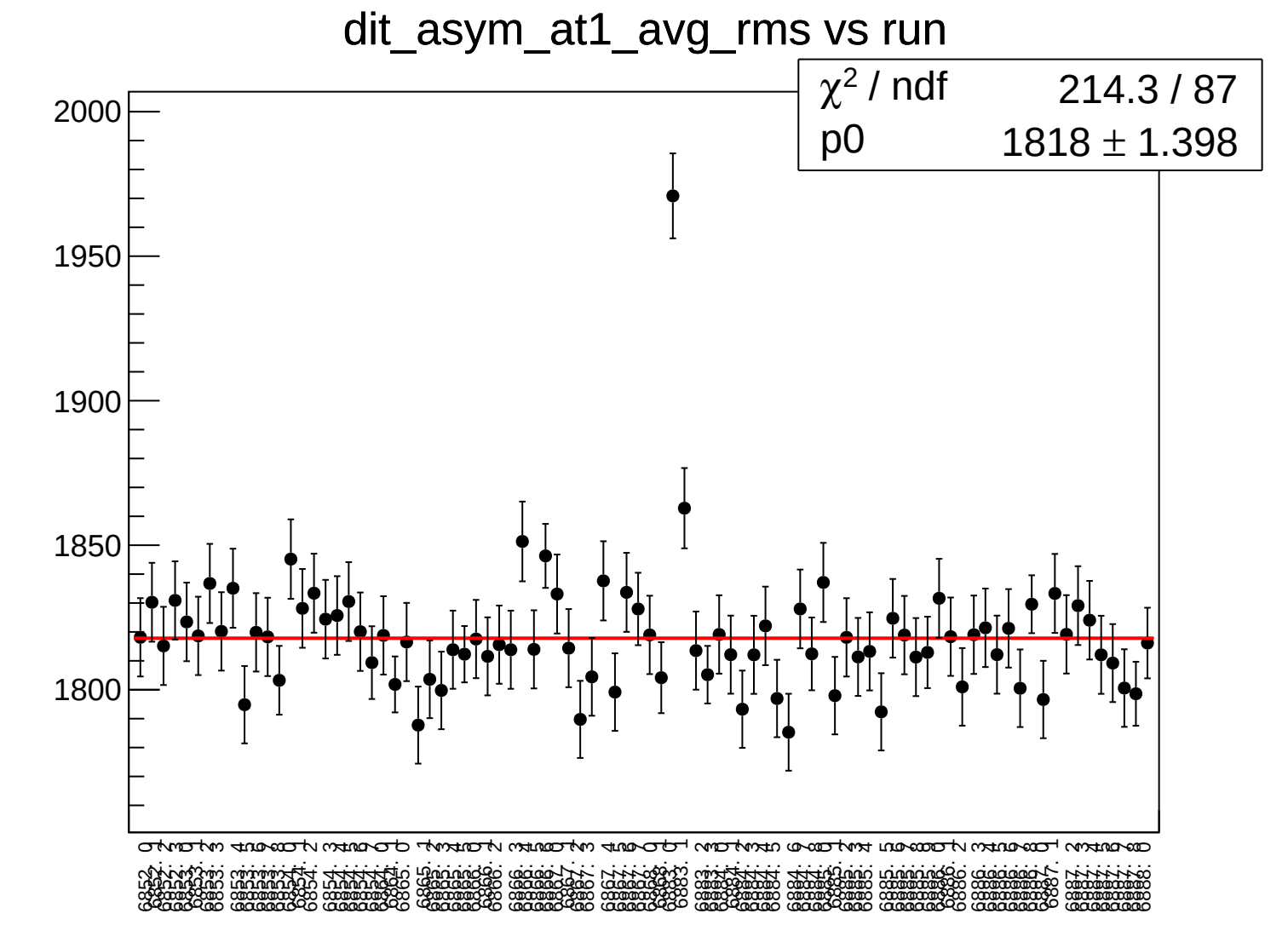

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 215.8 / 87
p0 1817 ± 1.397
2000
1950
1900
1850
1800
1750

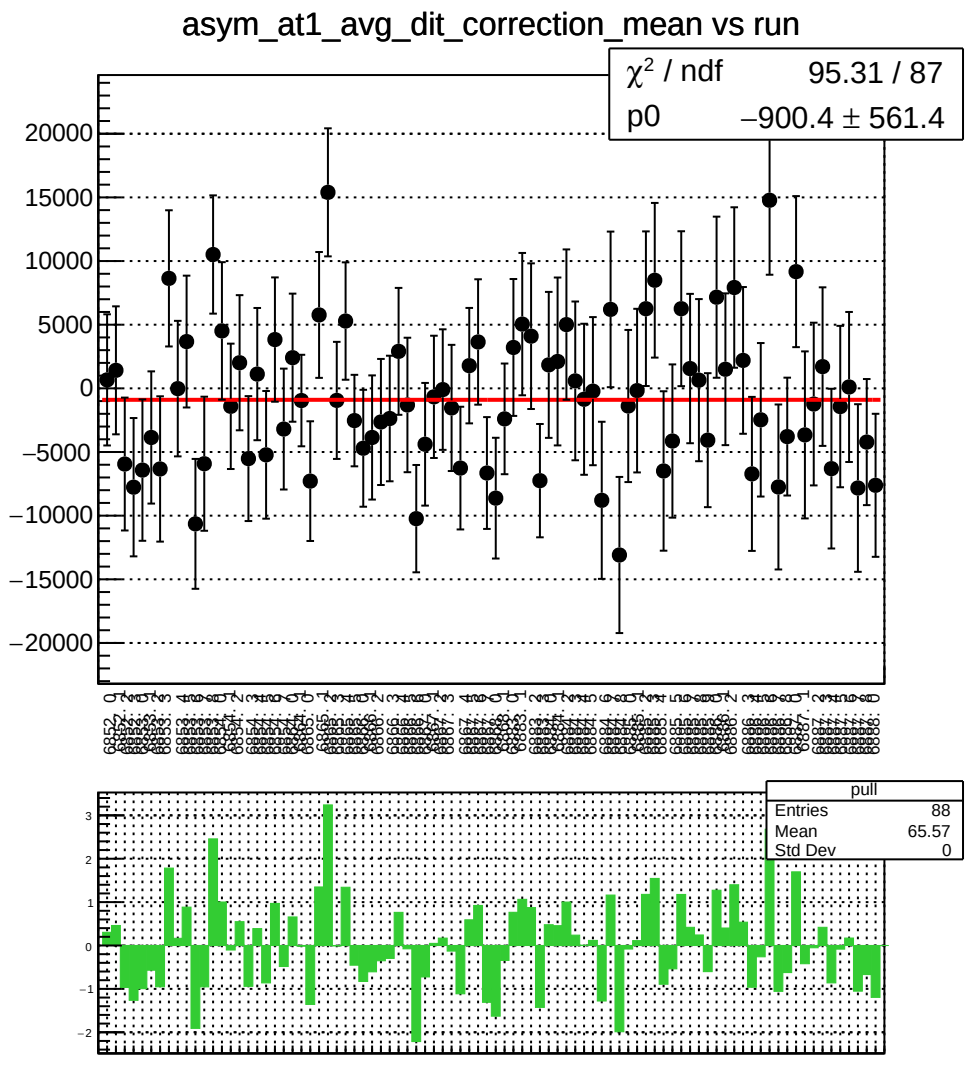

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.85 / 87
p0 −906.9 ± 547.4
pull
Entries 88
Mean 70.06
Std Dev 0
pull1D
Entries 88
Mean 0.02904
Std Dev 1.038

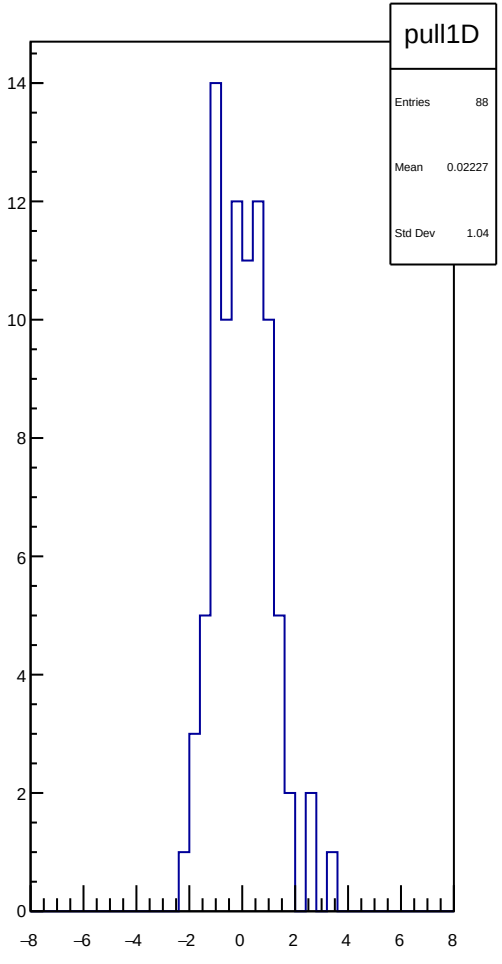

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.83e+04 / 87
p0 500.6 ± 0.3871
650
600
550
500
450
400

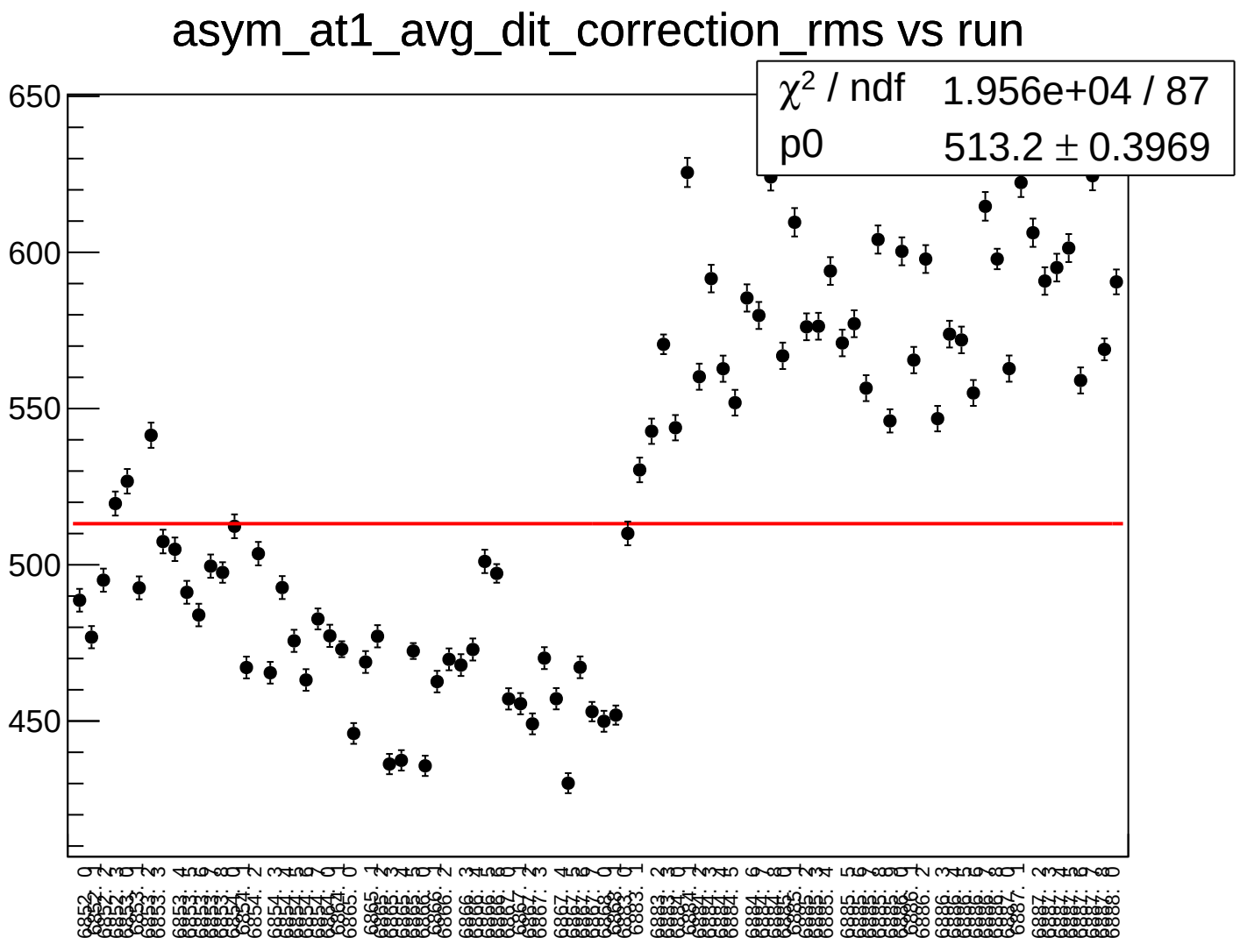

dit_asym_at1_avg_mean vs run
χ² / ndf 108 / 87
p0 308.6 ± 1977
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −361.2
Std Dev 0
3
2
1
0
−1
−2

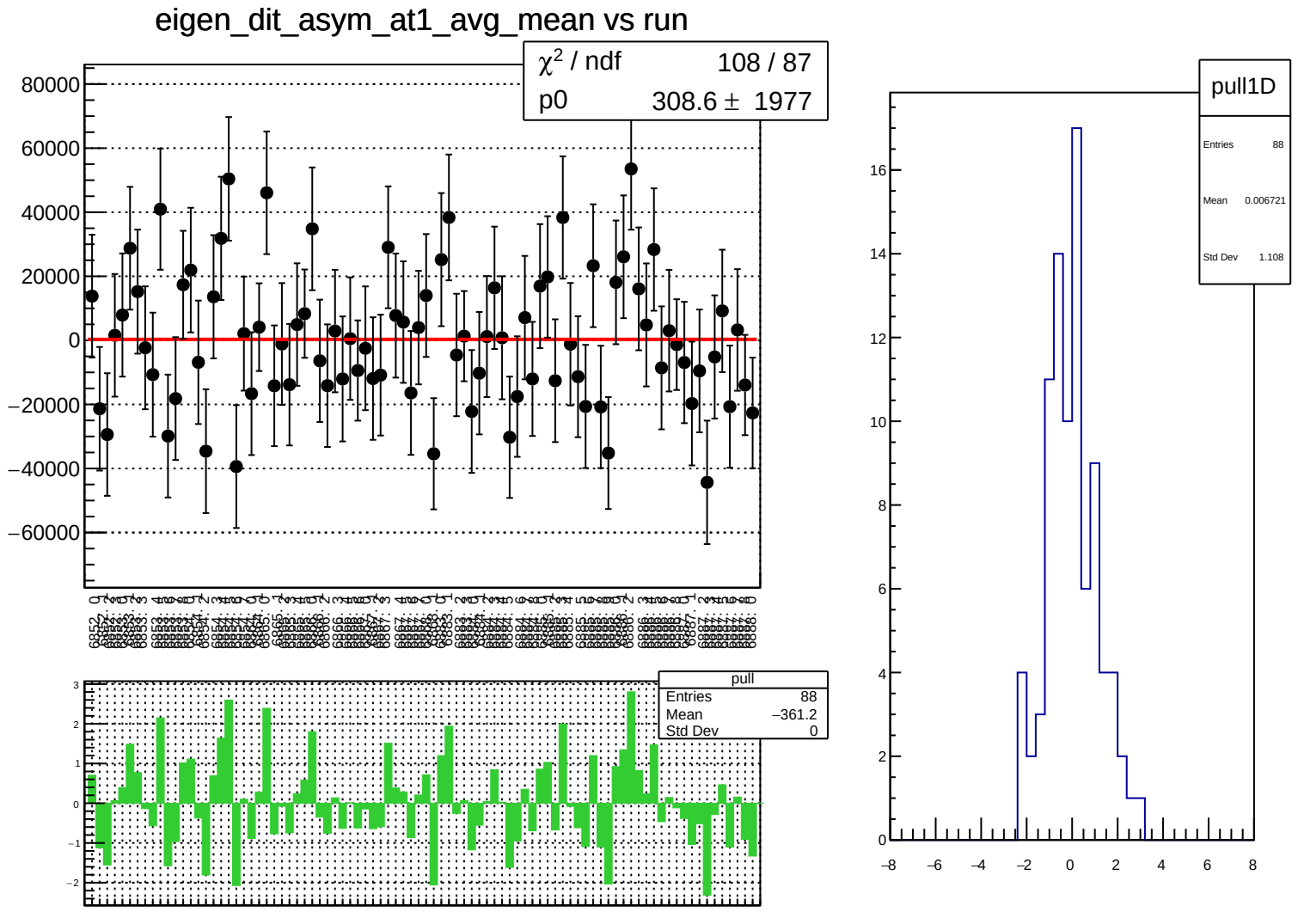

pull1D
Entries 88
Mean 0.006721
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

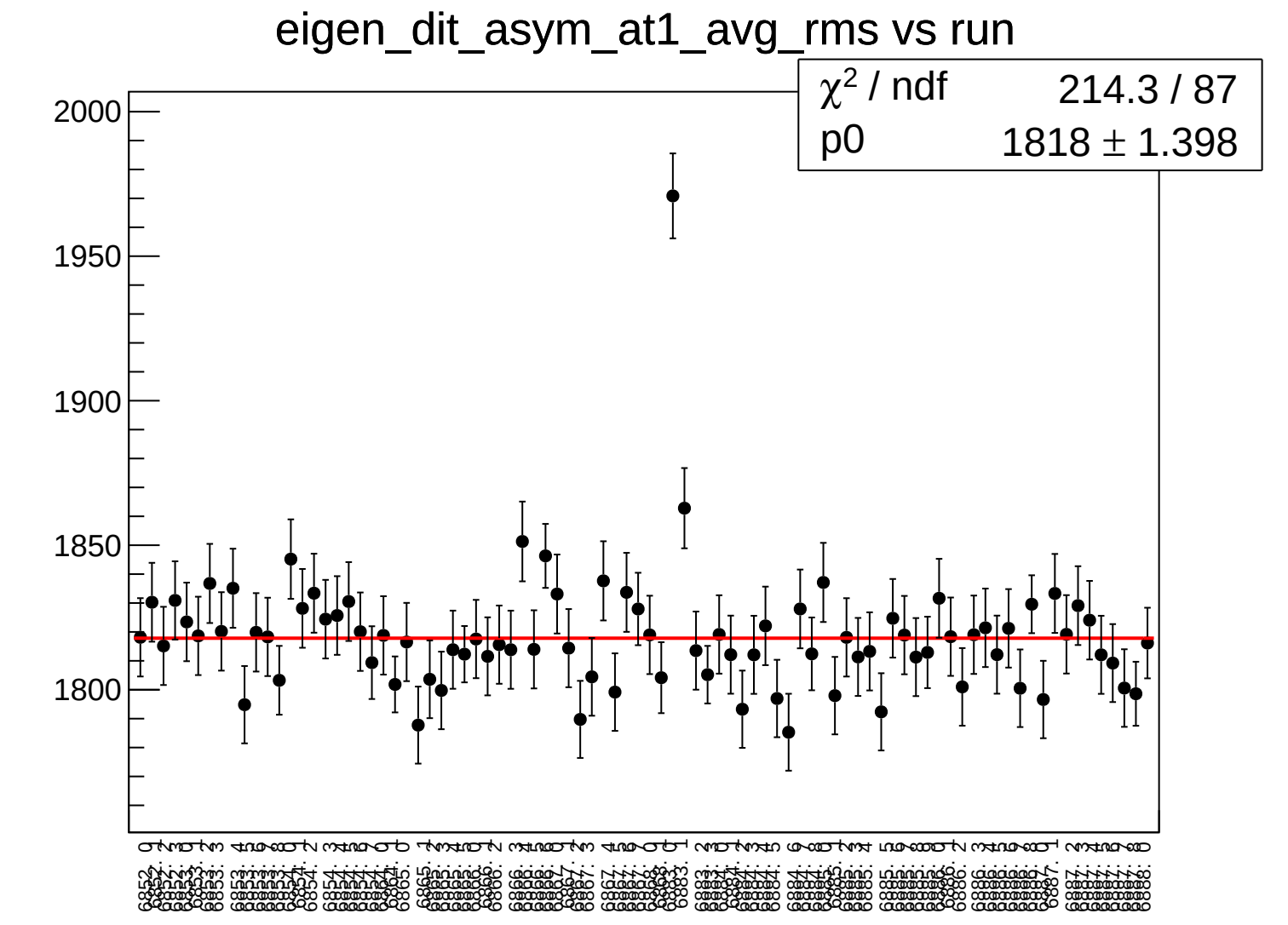

dit_asym_at1_avg_rms vs run
χ² / ndf 214.3 / 87
p0 1818 ± 1.398
2000
1950
1900
1850
1800

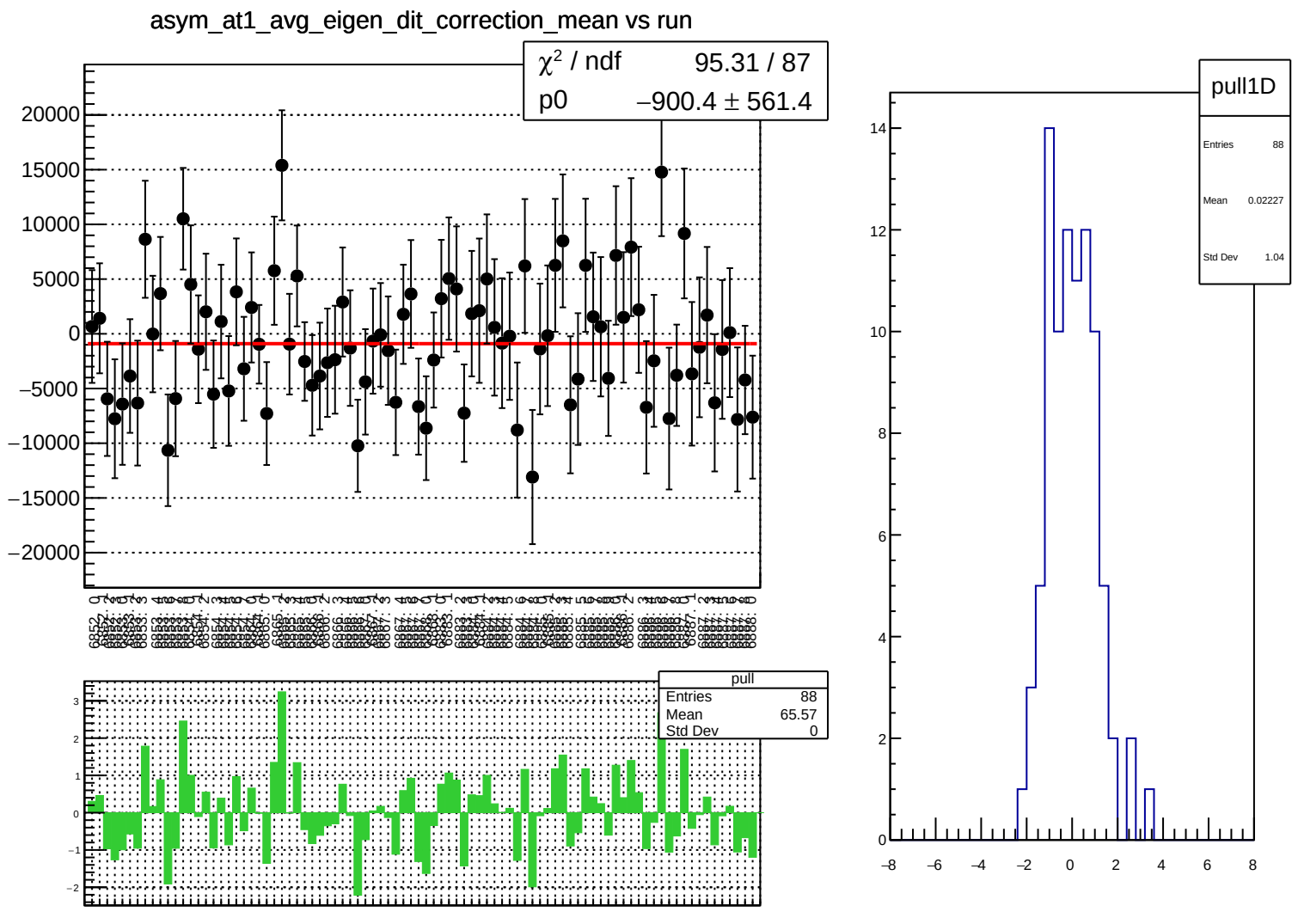

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 95.31 / 87
p0 −900.4 ± 561.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 65.57
Std Dev 0
3
2
1
0
−1
−2

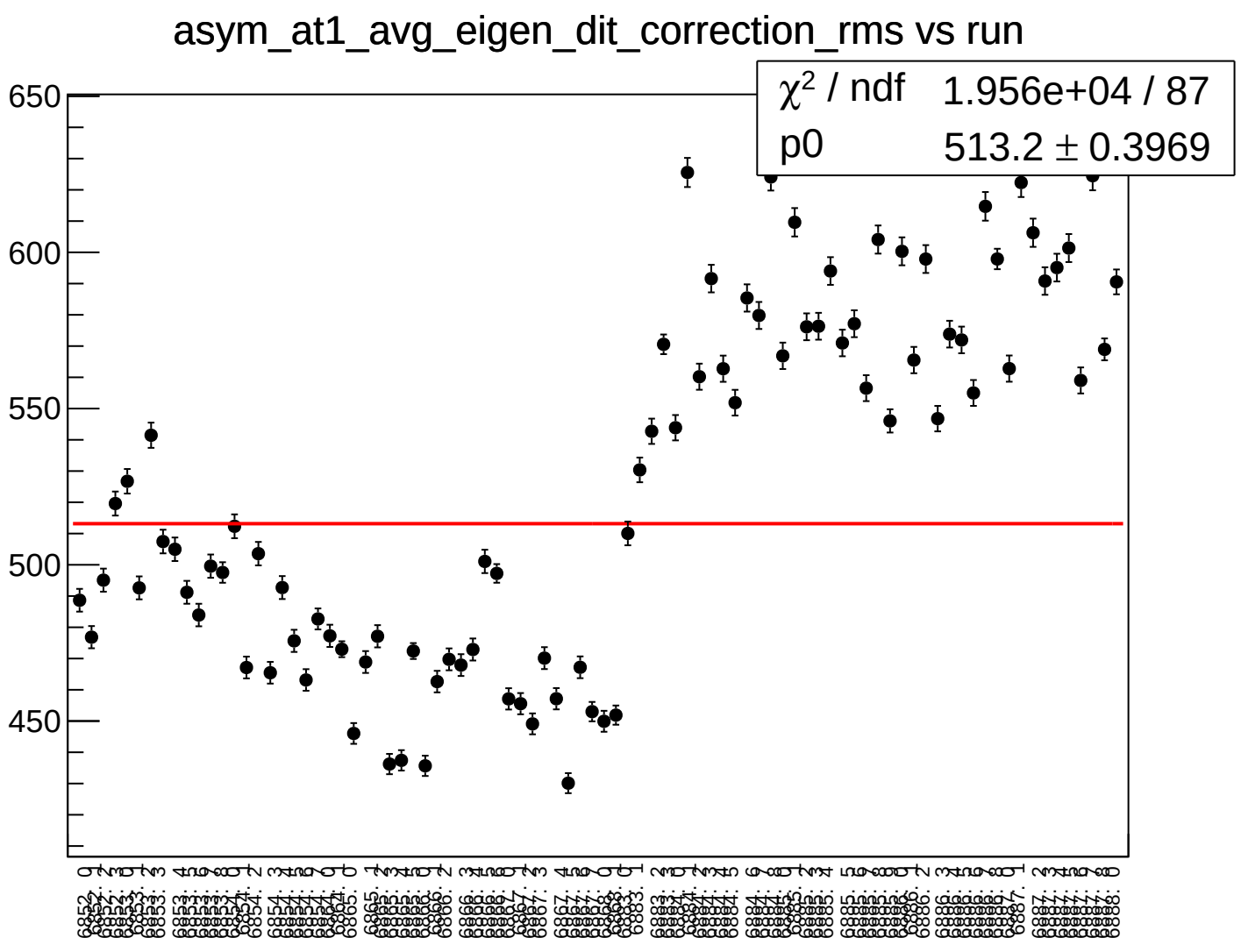

pull1D
Entries 88
Mean 0.02227
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

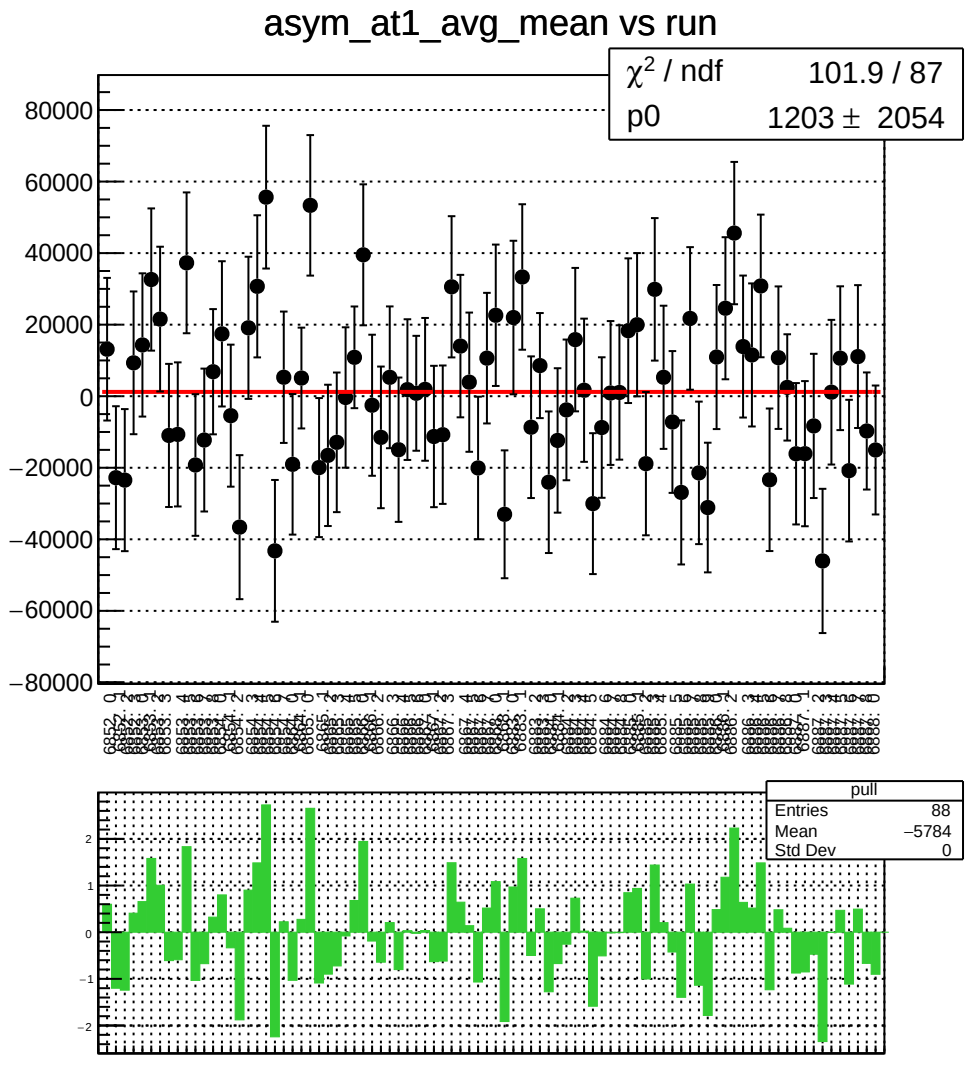

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.956e+04 / 87
p0 513.2 ± 0.3969
650
600
550
500
450

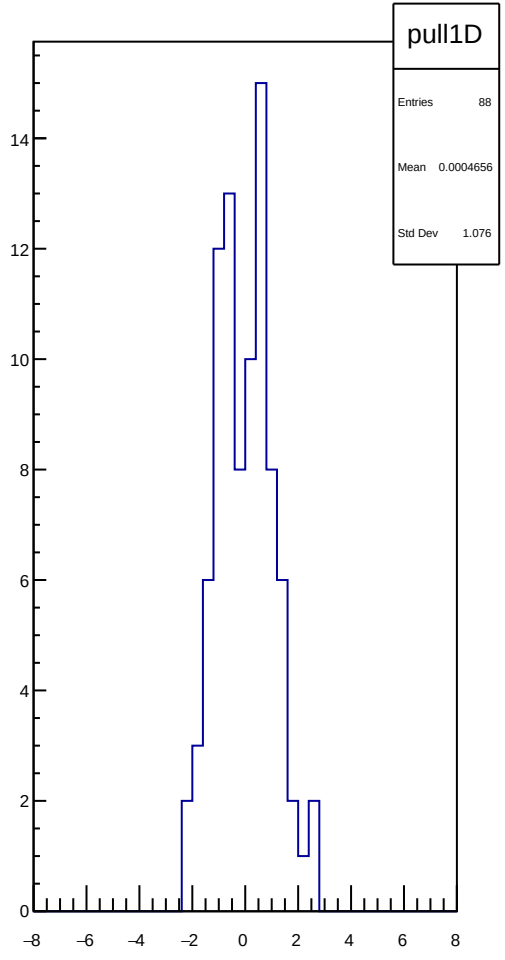

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 108 / 87
p0 308.6 ± 1977
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −361.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.006721
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

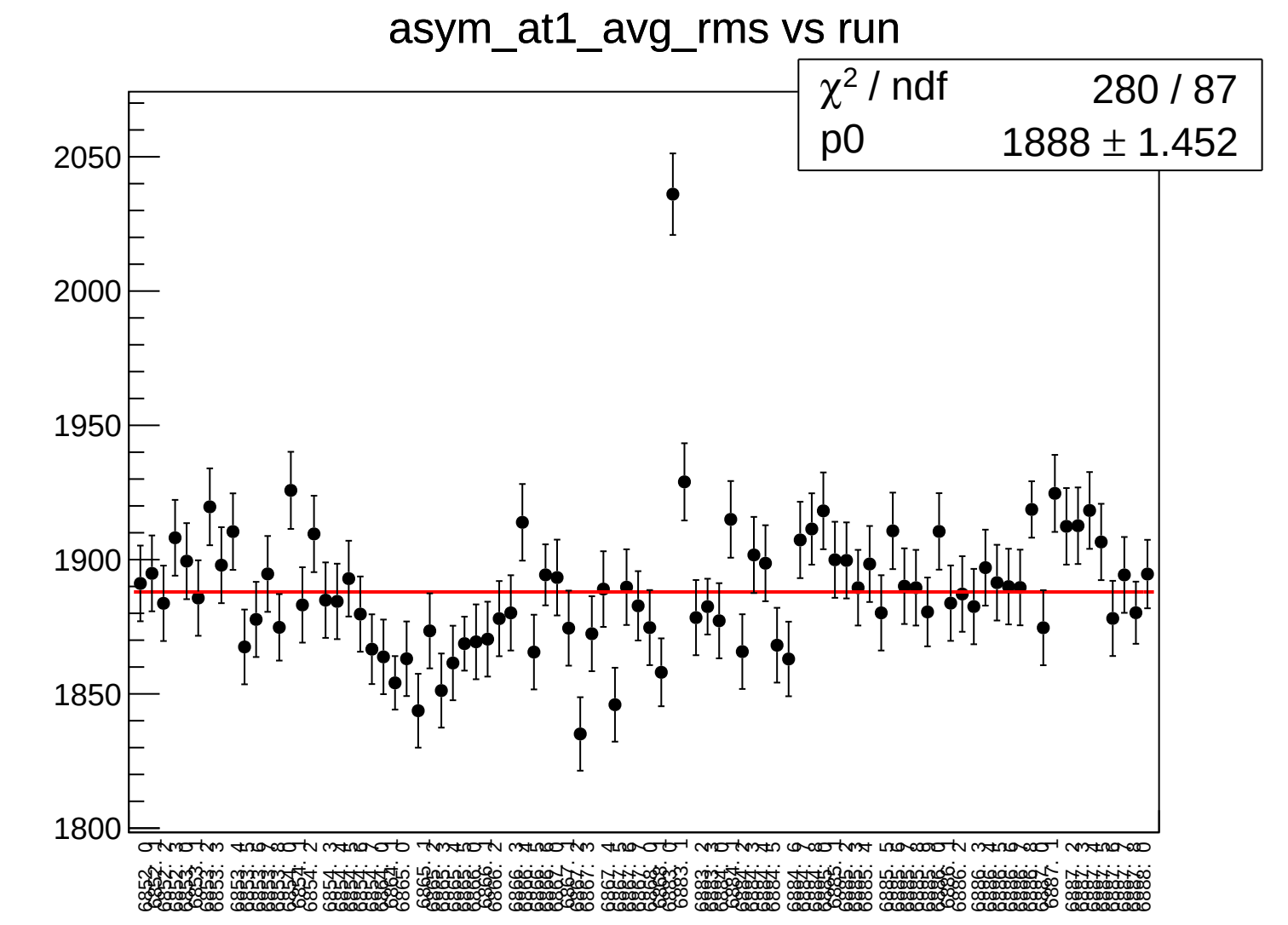

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 214.3 / 87
p0 1818 ± 1.398
2000
1950
1900
1850
1800

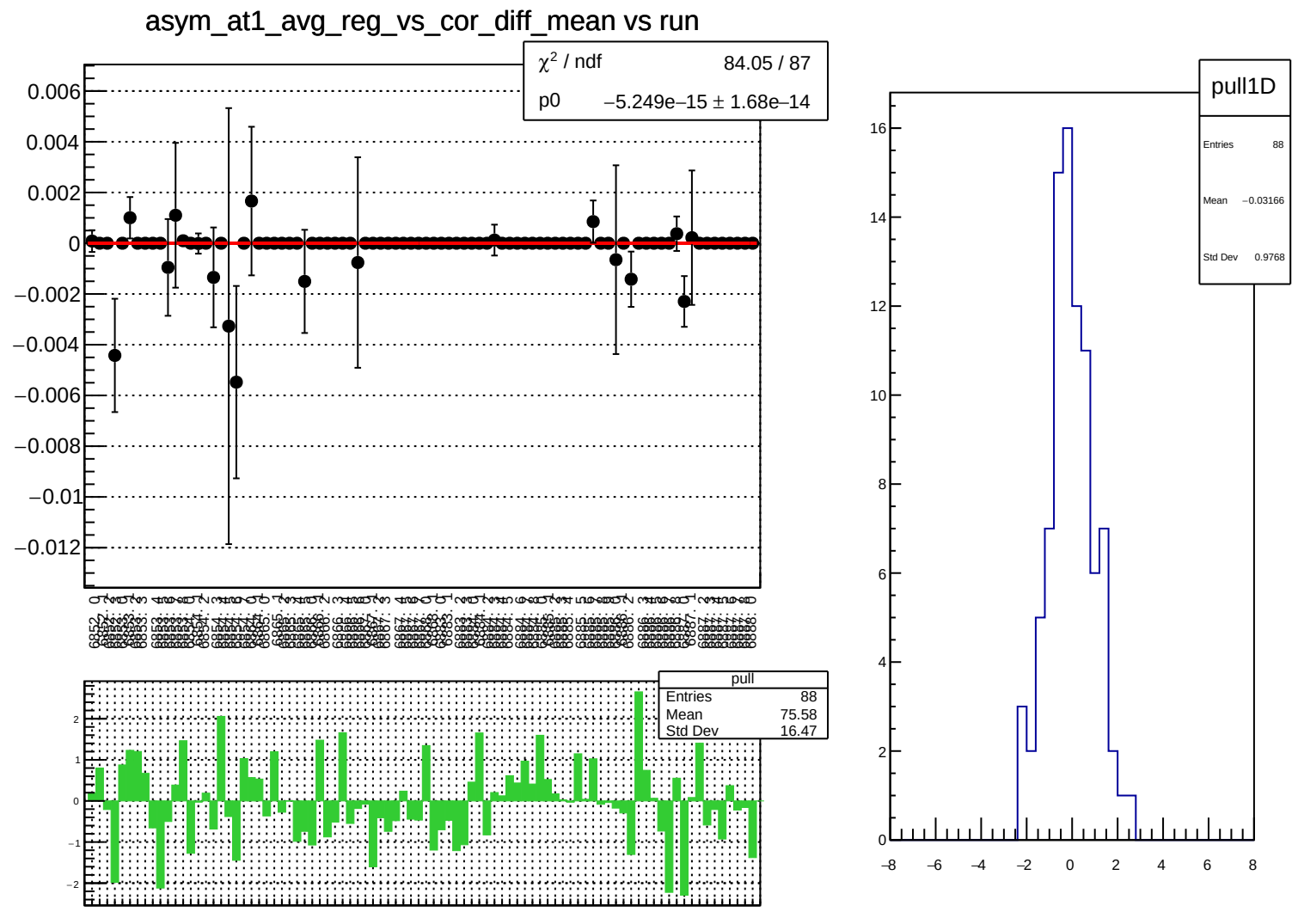

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.31 / 87
p0 −900.4 ± 561.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 65.57
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.02227
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

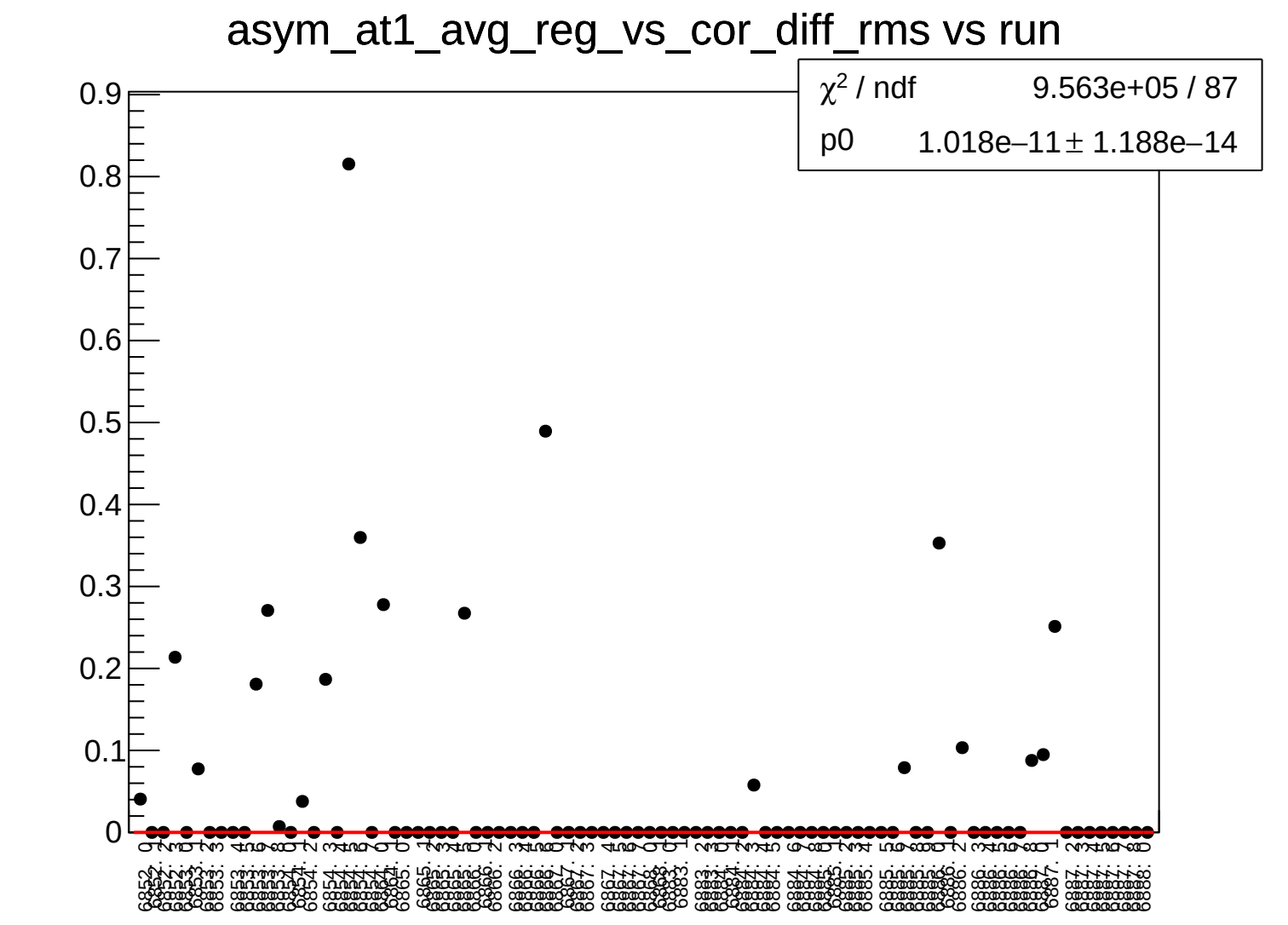

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.956e+04 / 87
p0 513.2 ± 0.3969
650
600
550
500
450

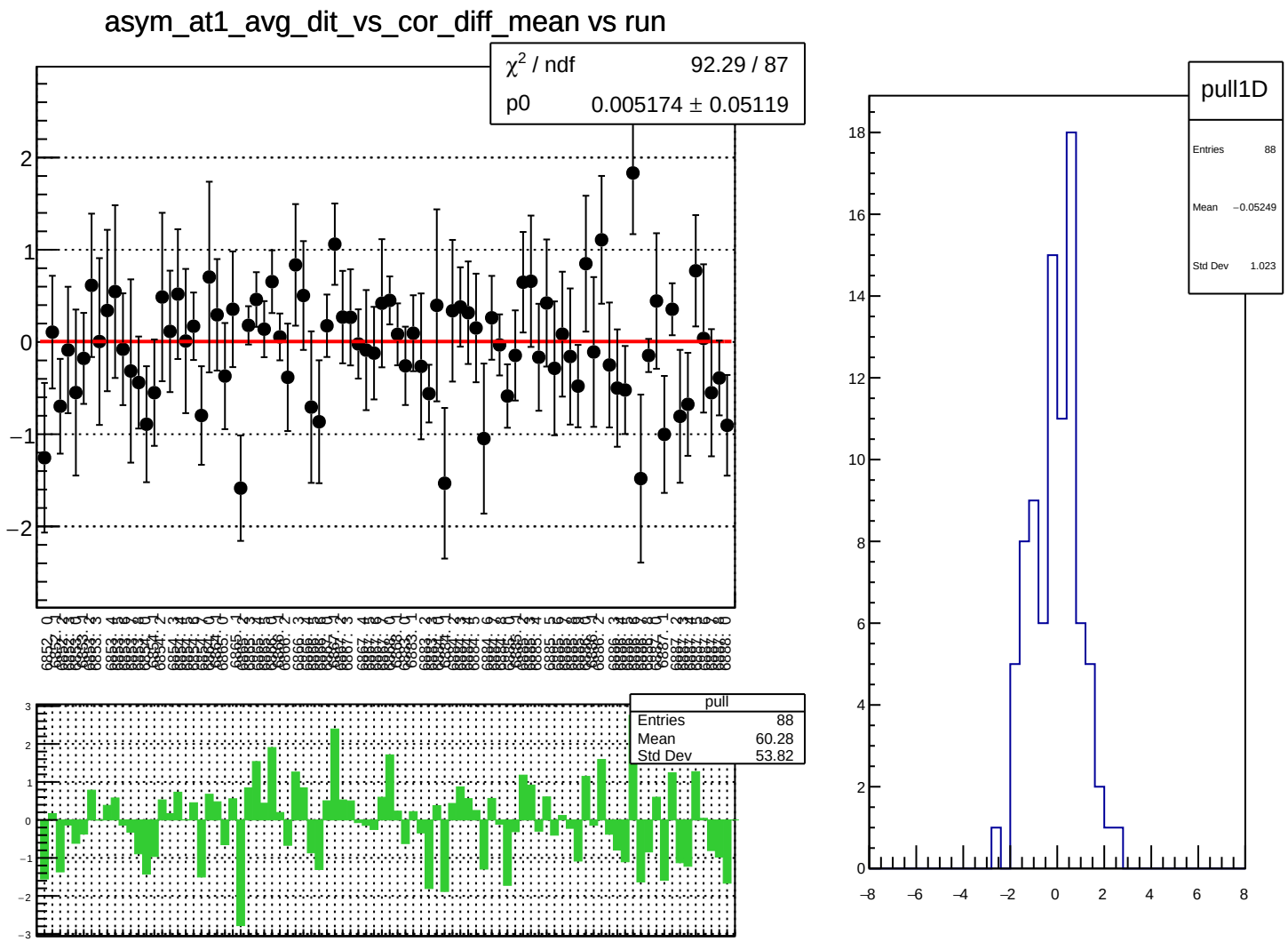

asym_at1_avg_mean vs run
χ² / ndf 101.9 / 87
p0 1203 ± 2054
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −5784
Std Dev 0
2
1
0
−1
−2

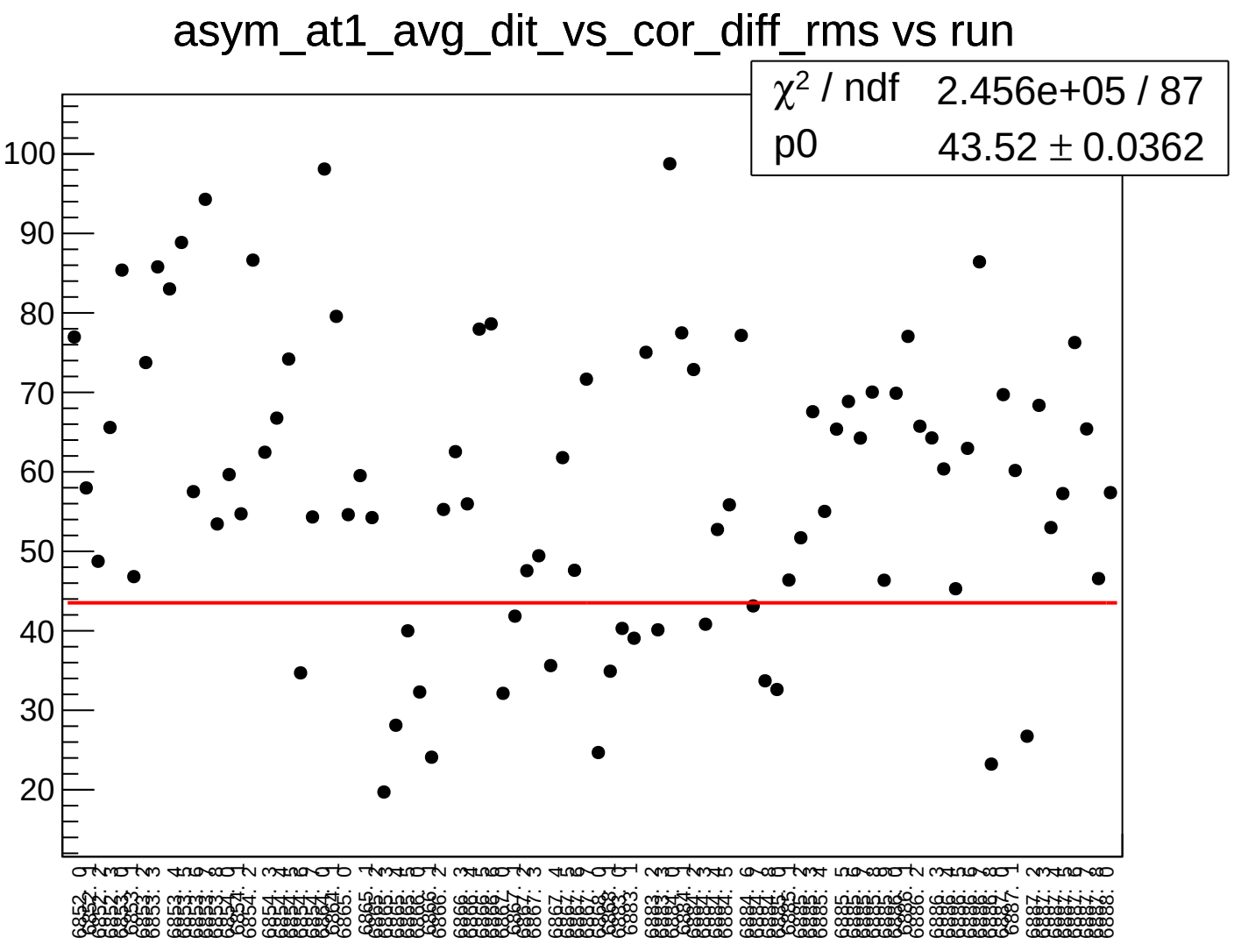

pull1D
Entries 88
Mean 0.0004656
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

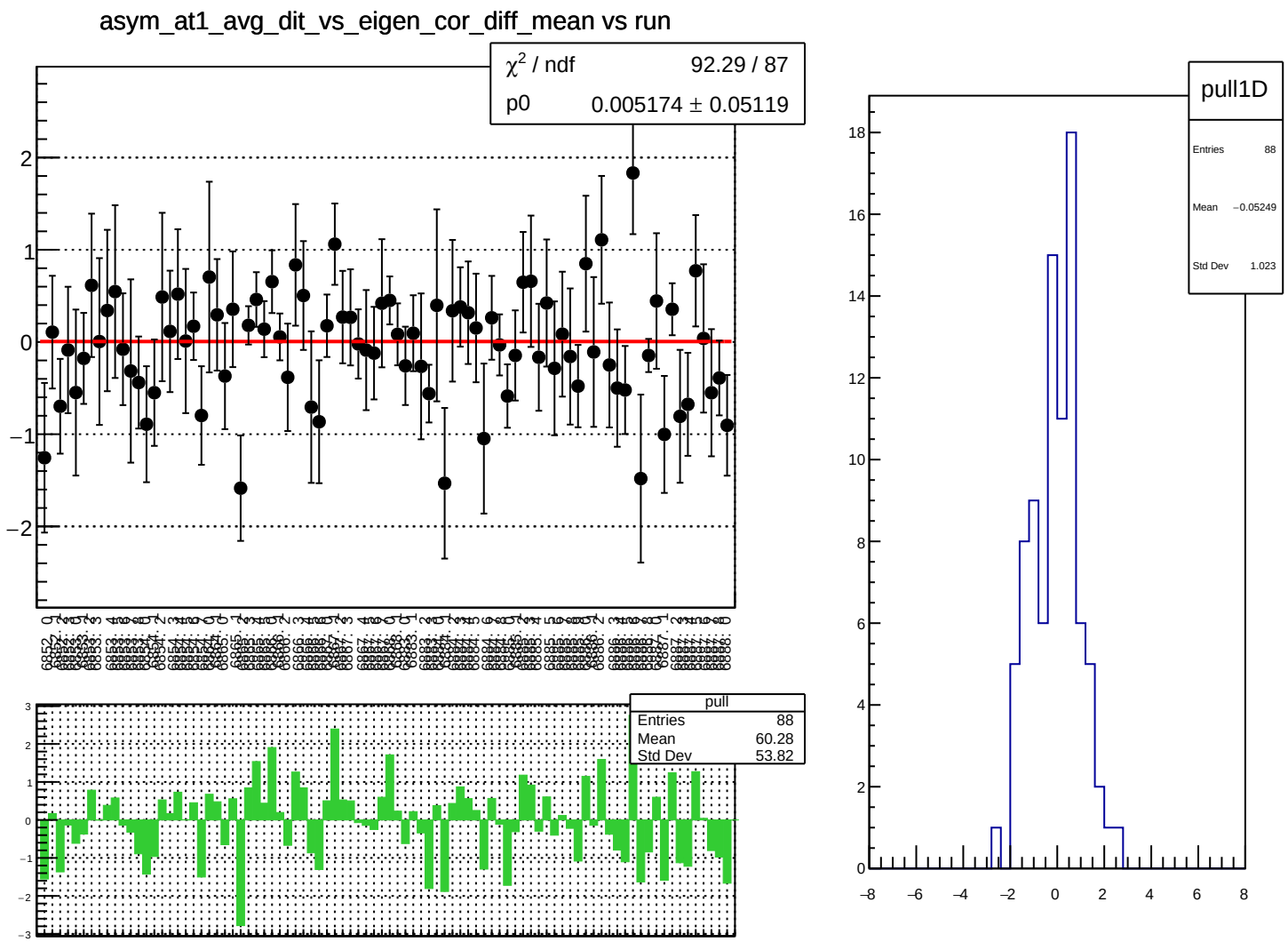

asym_at1_avg_rms vs run
χ^2 / ndf 280 / 87
p0 1888 ± 1.452
2050
2000
1950
1900
1850
1800

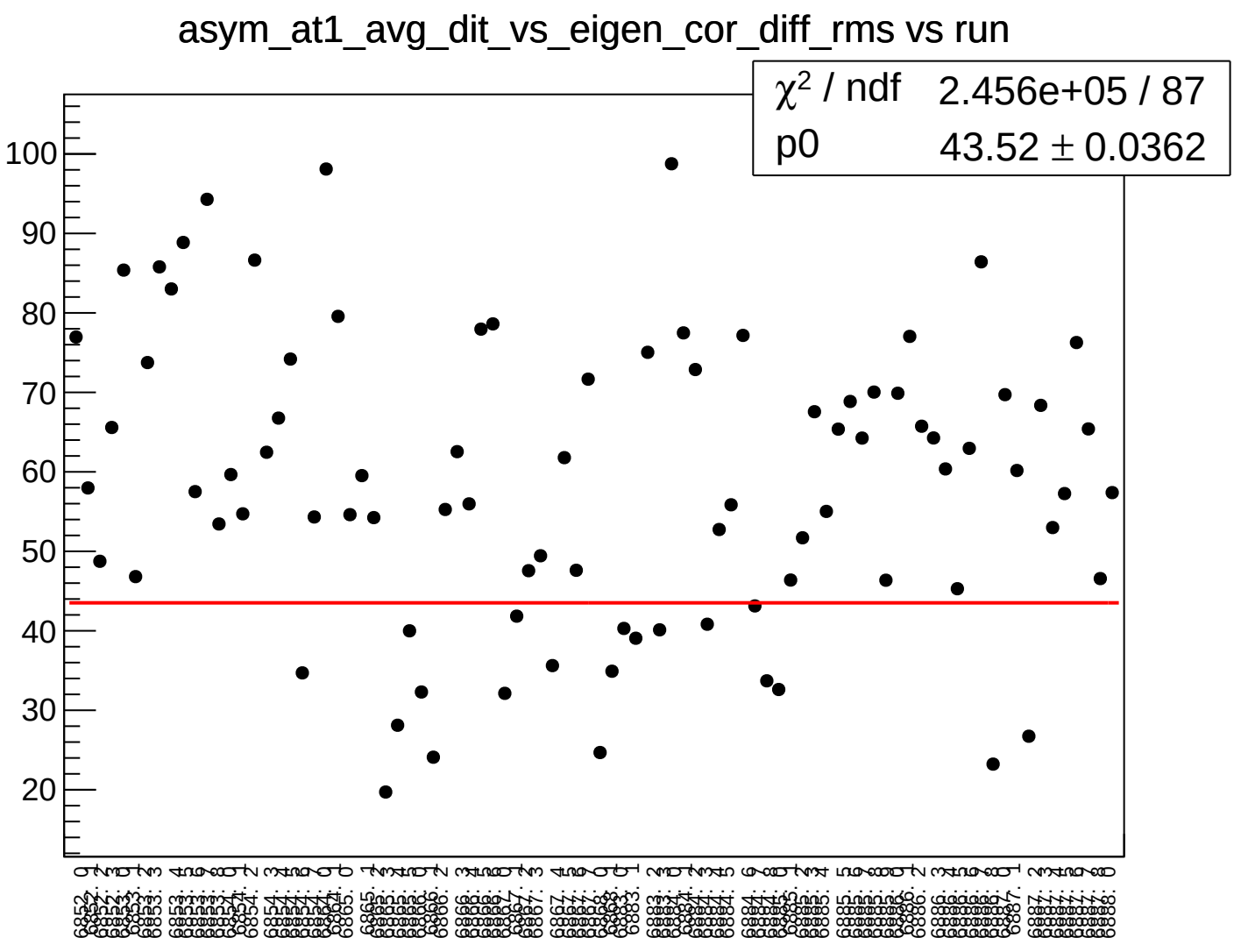

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.05 / 87
p0 −5.249e−15 ± 1.68e−14
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
pull
Entries 88
Mean 75.58
Std Dev 16.47
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.03166
Std Dev 0.9768
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

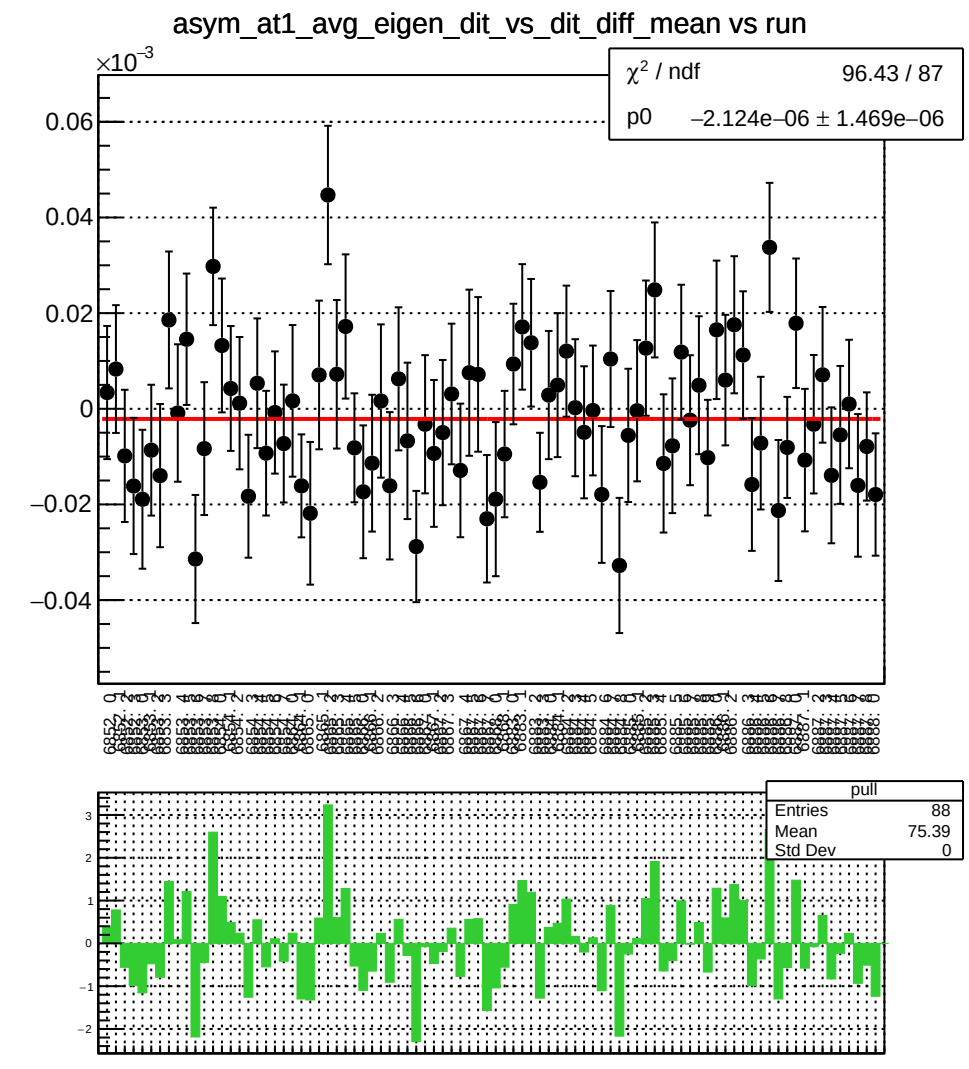

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.563e+05 / 87
p0 1.018e−11 ± 1.188e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

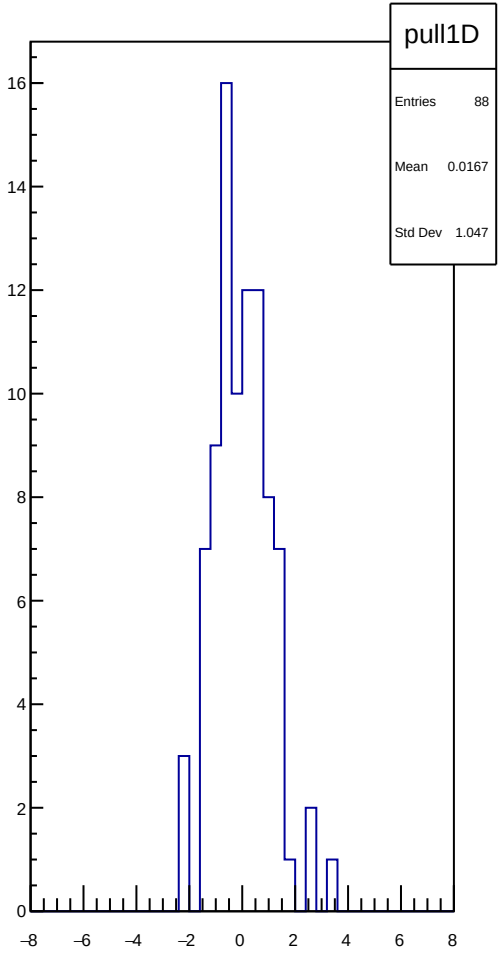

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.29 / 87
p0 0.005174 ± 0.05119
pull
Entries 88
Mean 60.28
Std Dev 53.82
pull1D
Entries 88
Mean −0.05249
Std Dev 1.023

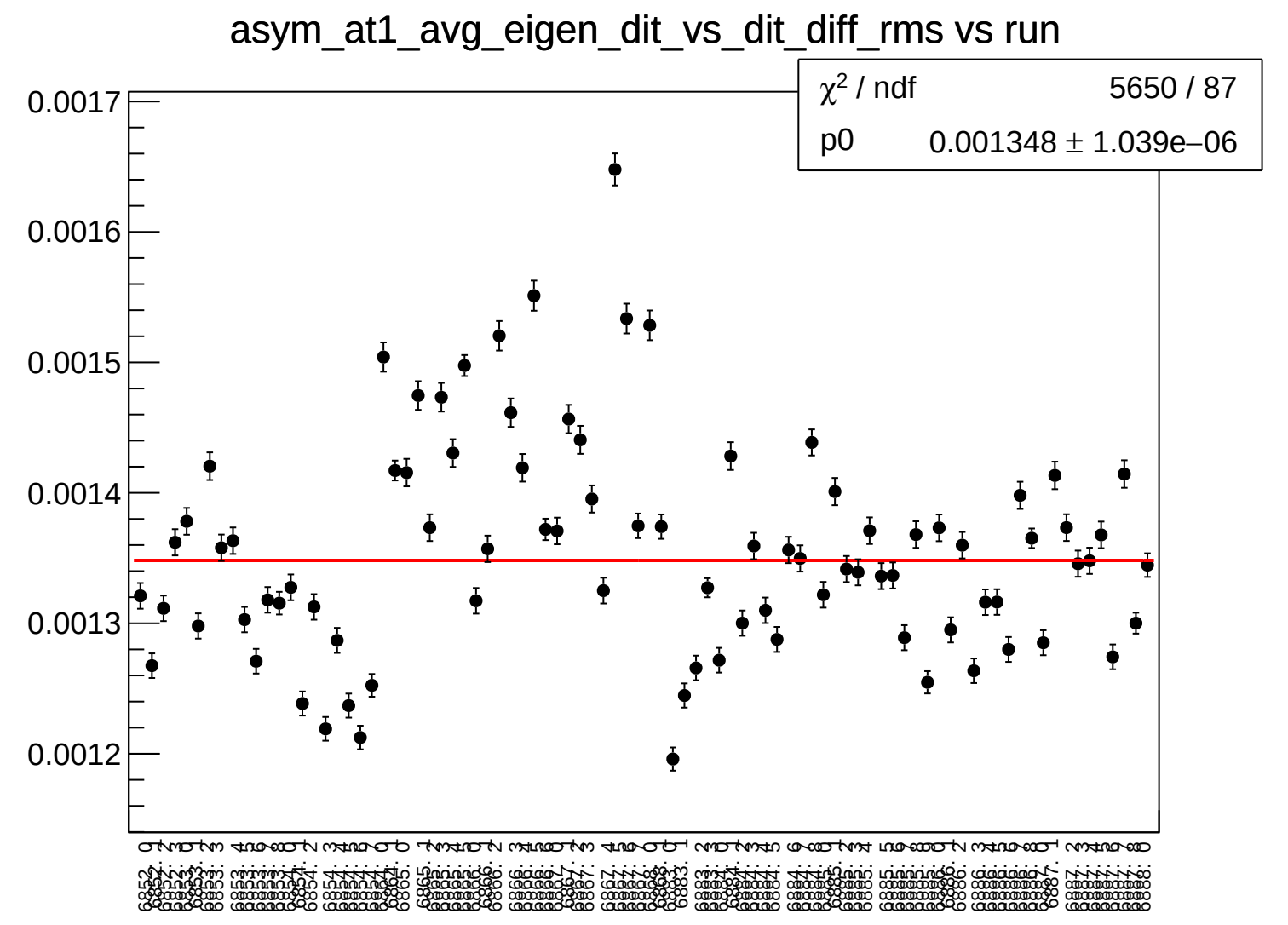

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.456e+05 / 87
p0 43.52 ± 0.0362
100
90
80
70
60
50
40
30
20

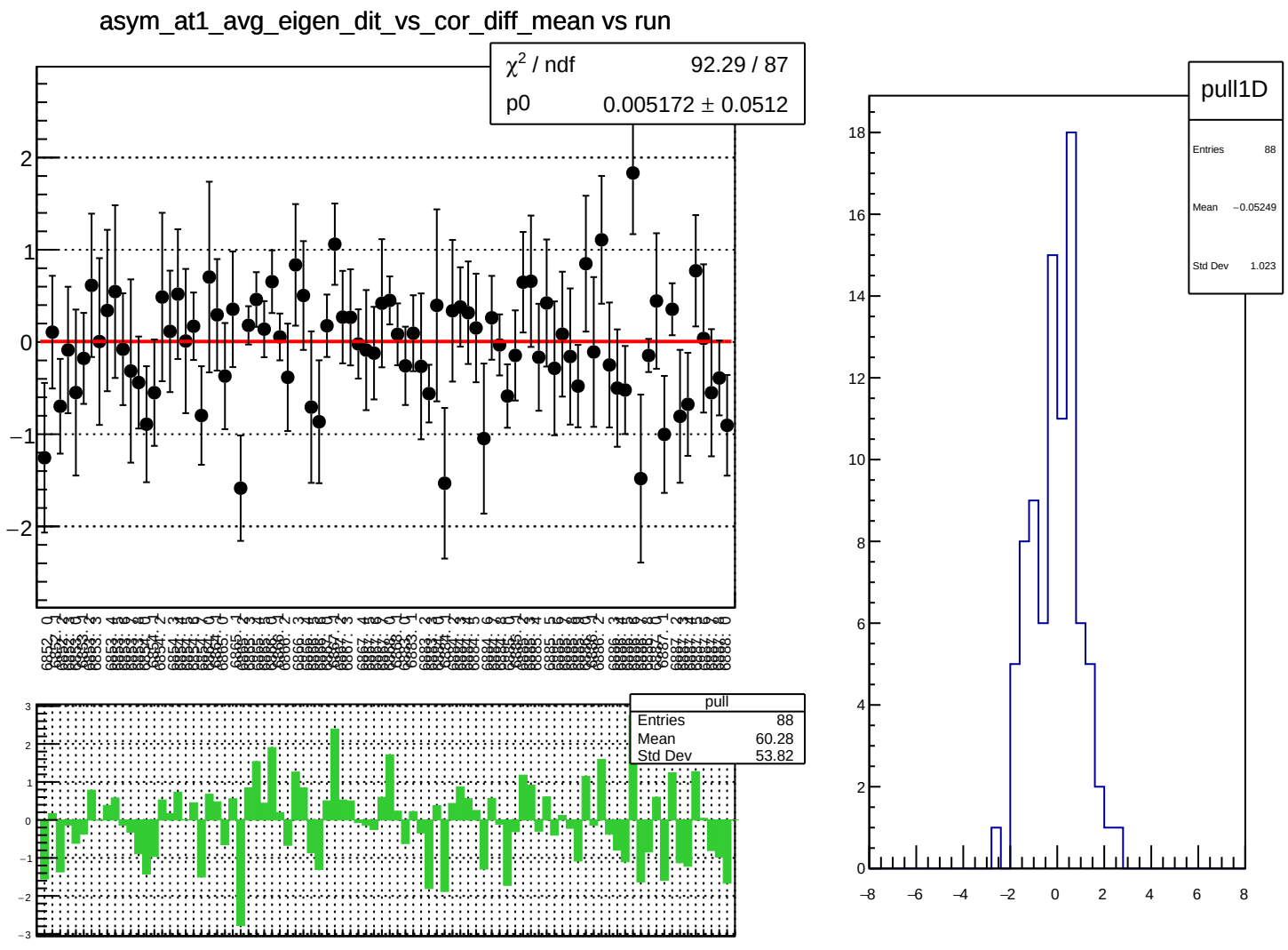

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.29 / 87
p0 0.005174 ± 0.05119
pull
Entries 88
Mean 60.28
Std Dev 53.82
pull1D
Entries 88
Mean −0.05249
Std Dev 1.023

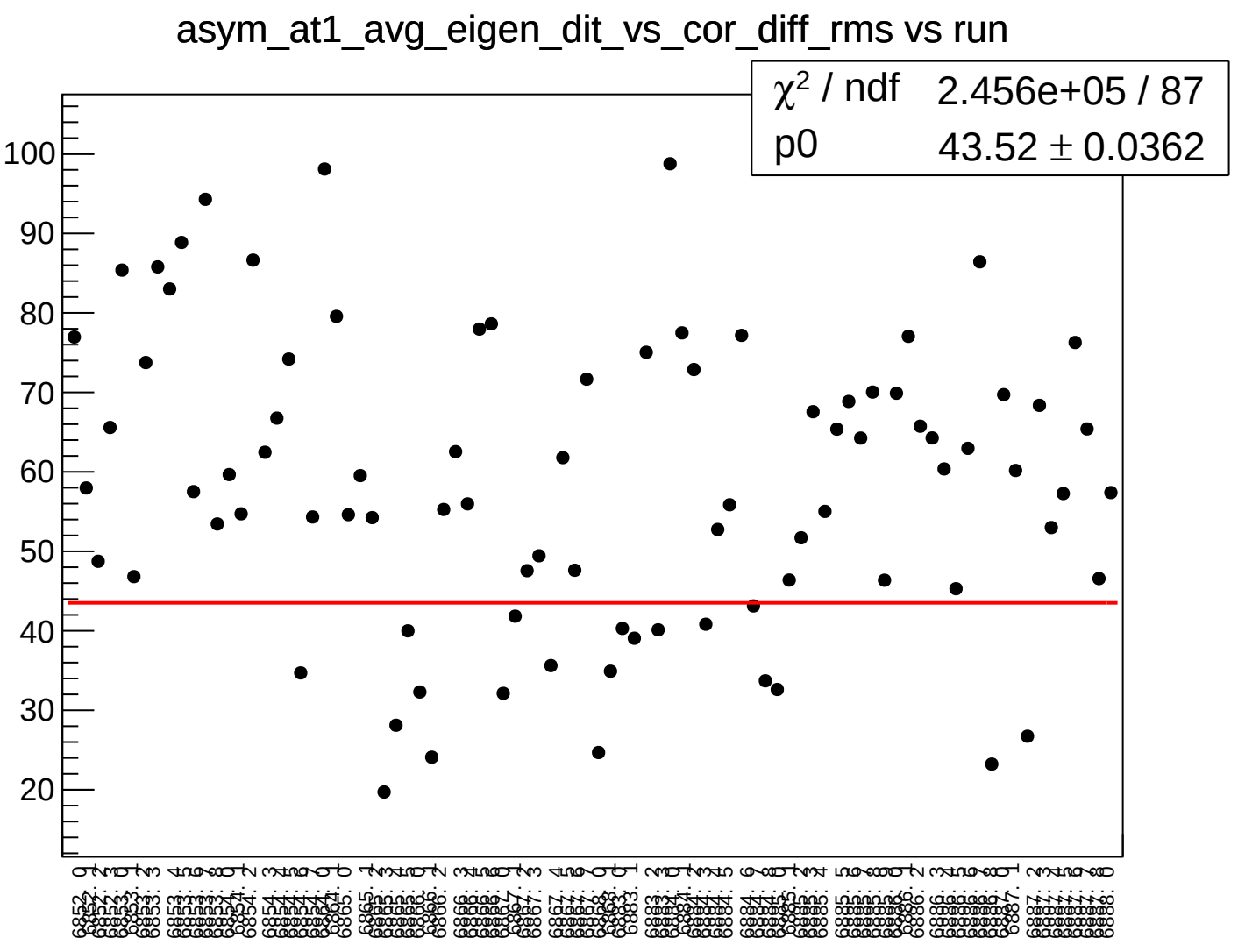

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.456e+05 / 87
p0 43.52 ± 0.0362
100
90
80
70
60
50
40
30
20

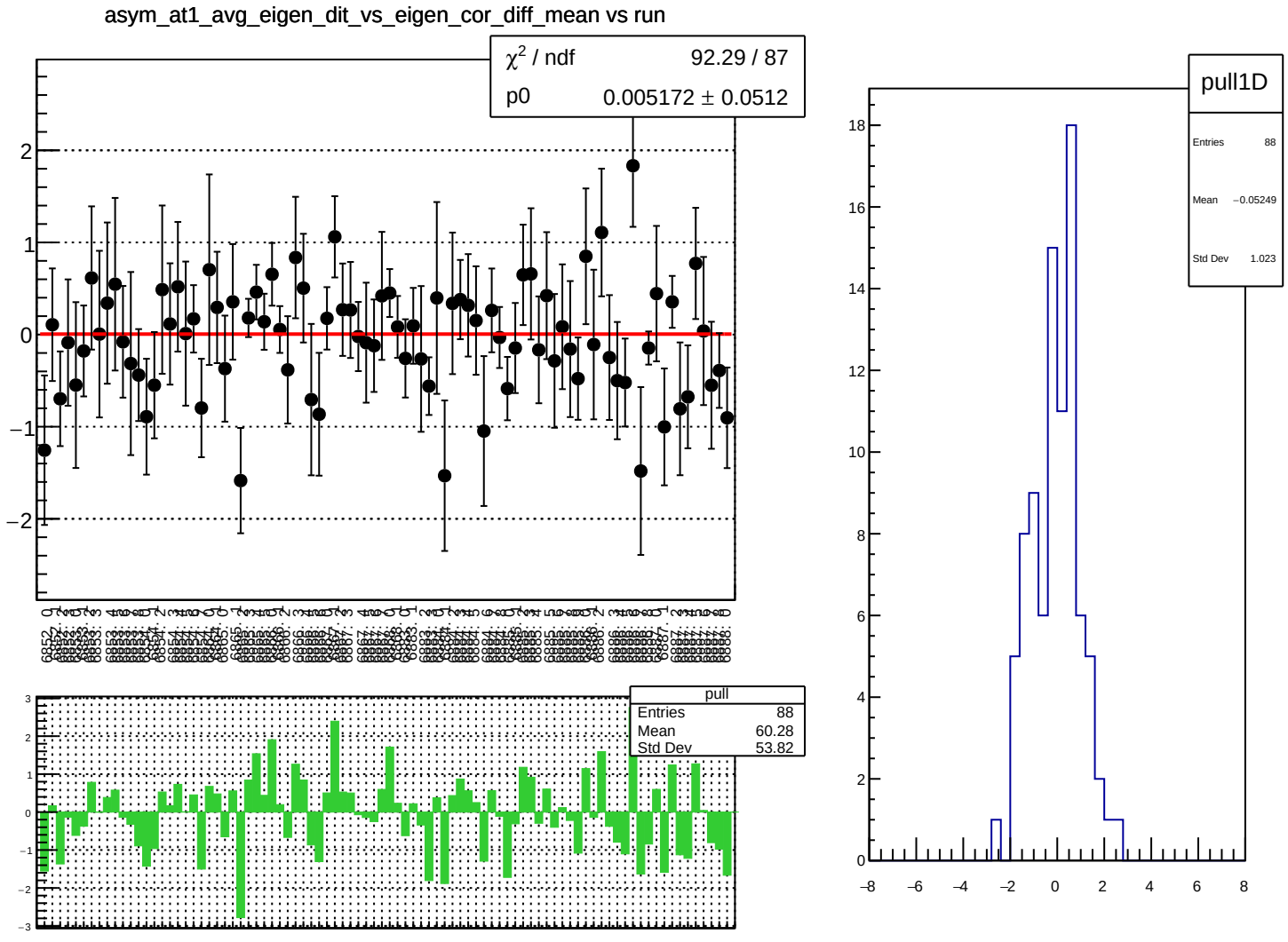

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.43 / 87
p0 −2.124e−06 ± 1.469e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean 75.39
Std Dev 0
3
2
1
0
−1
−2

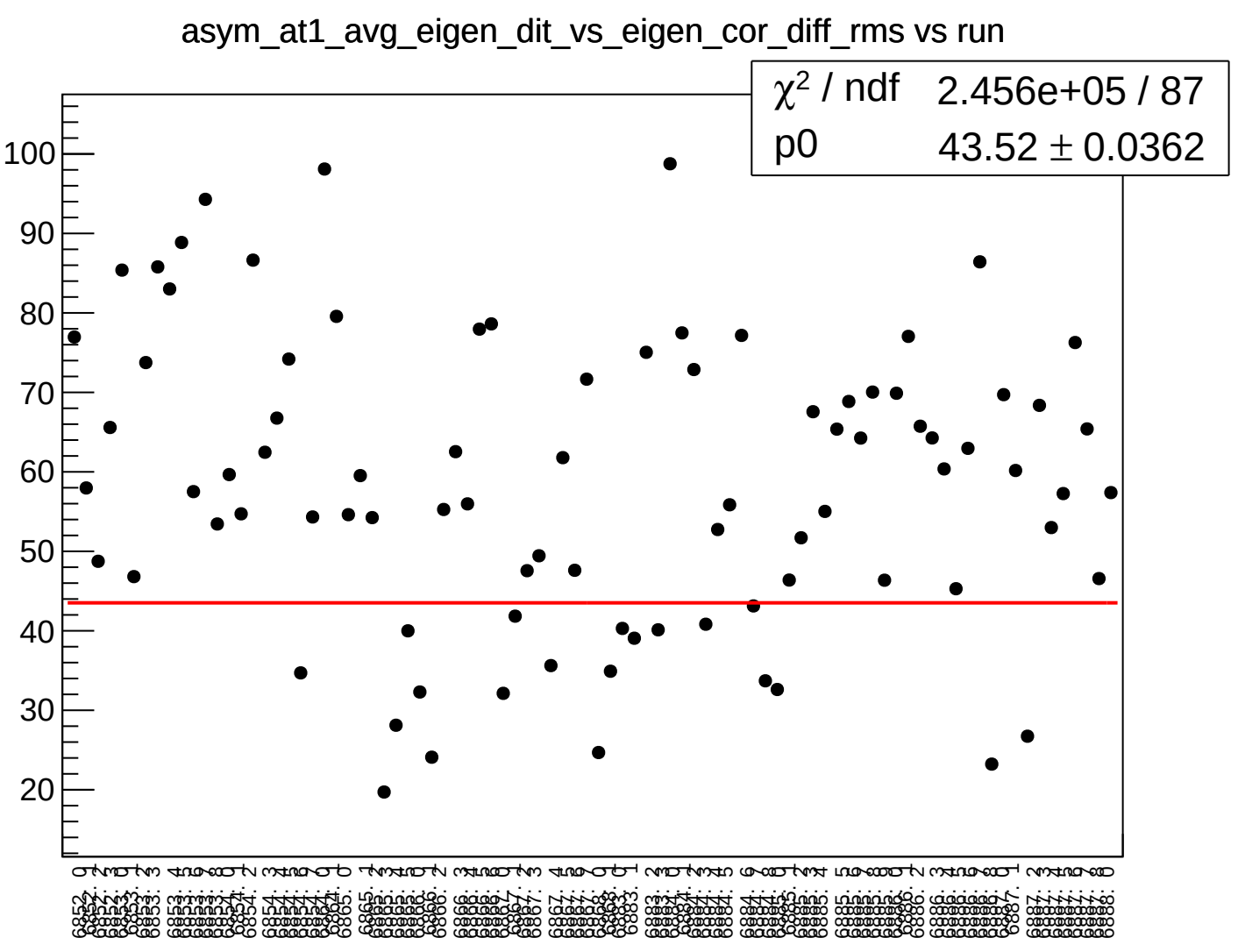

pull1D
Entries 88
Mean 0.0167
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

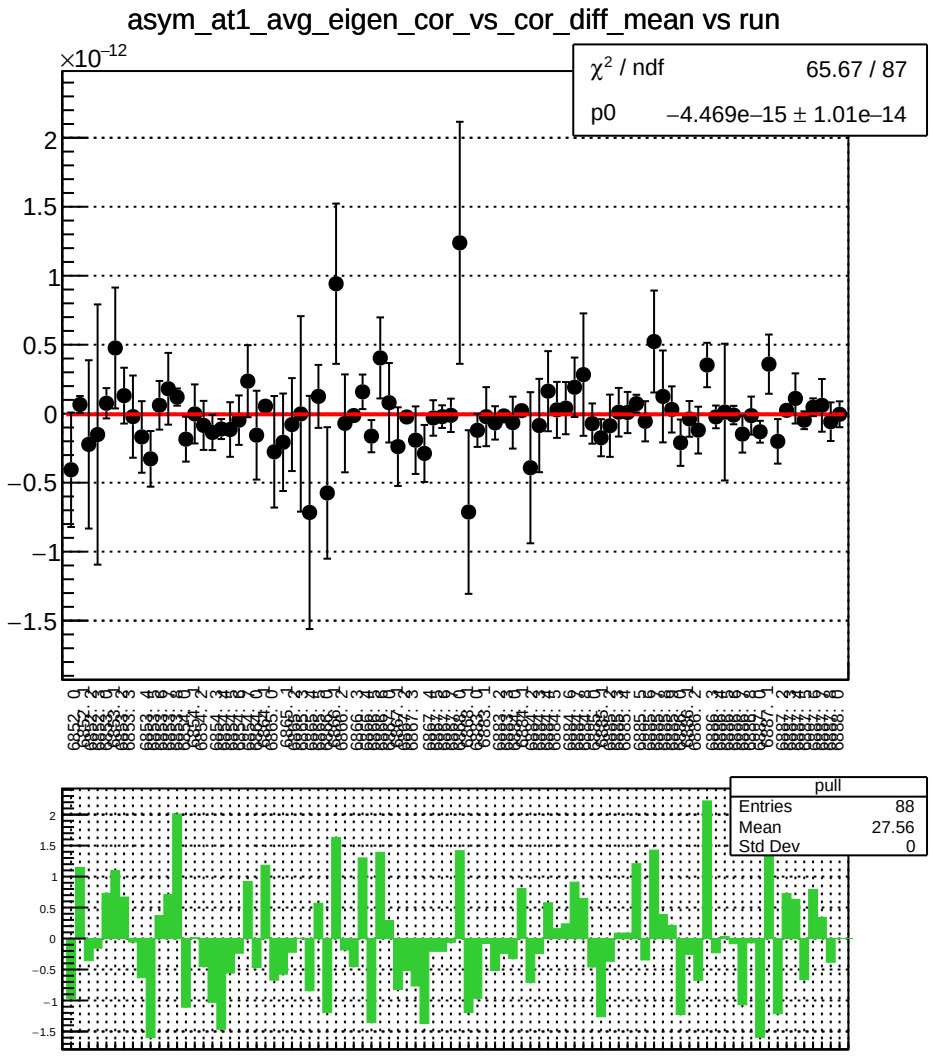

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5650 / 87
p0 0.001348 ± 1.039e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

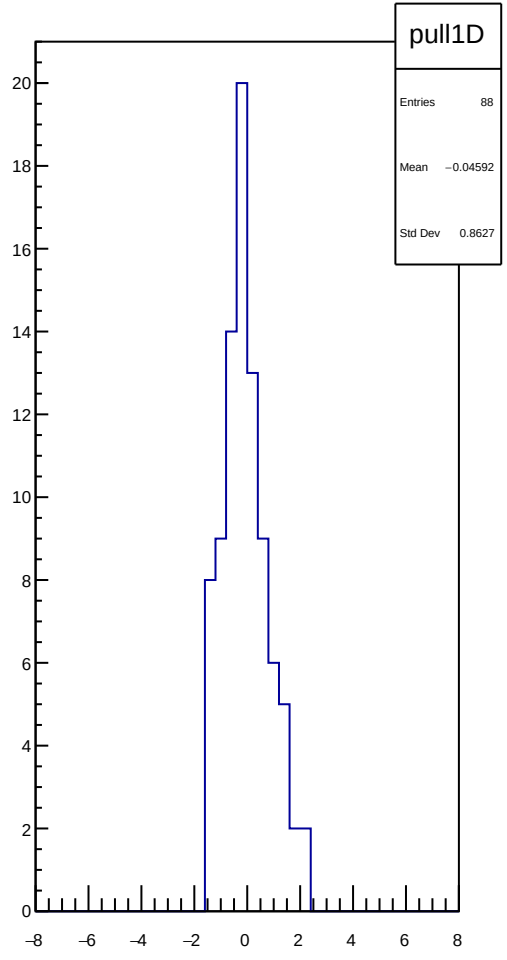

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.29 / 87
p0 0.005172 ± 0.0512
pull
Entries 88
Mean 60.28
Std Dev 53.82
pull1D
Entries 88
Mean −0.05249
Std Dev 1.023

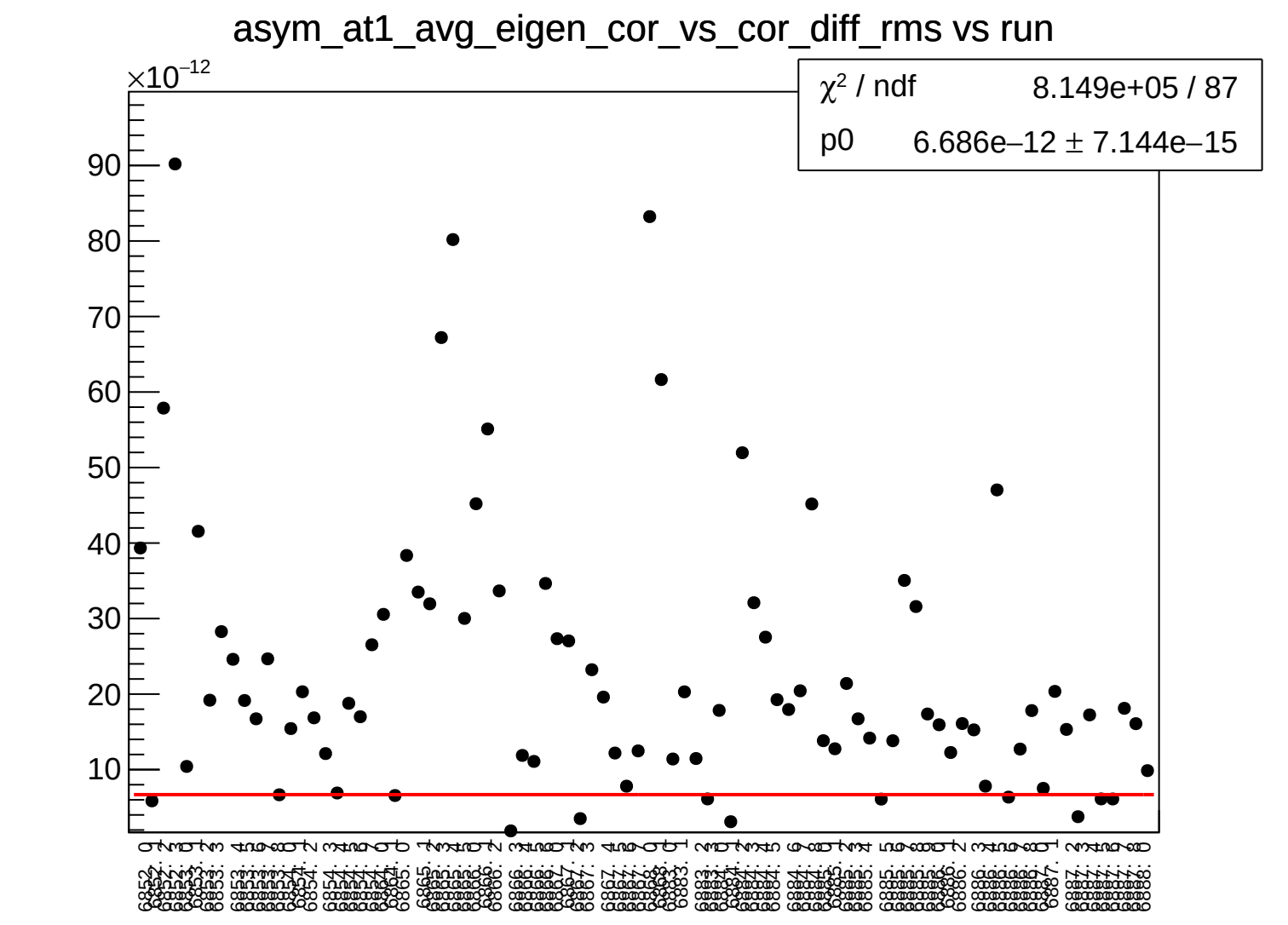

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.456e+05 / 87
p0 43.52 ± 0.0362
100
90
80
70
60
50
40
30
20

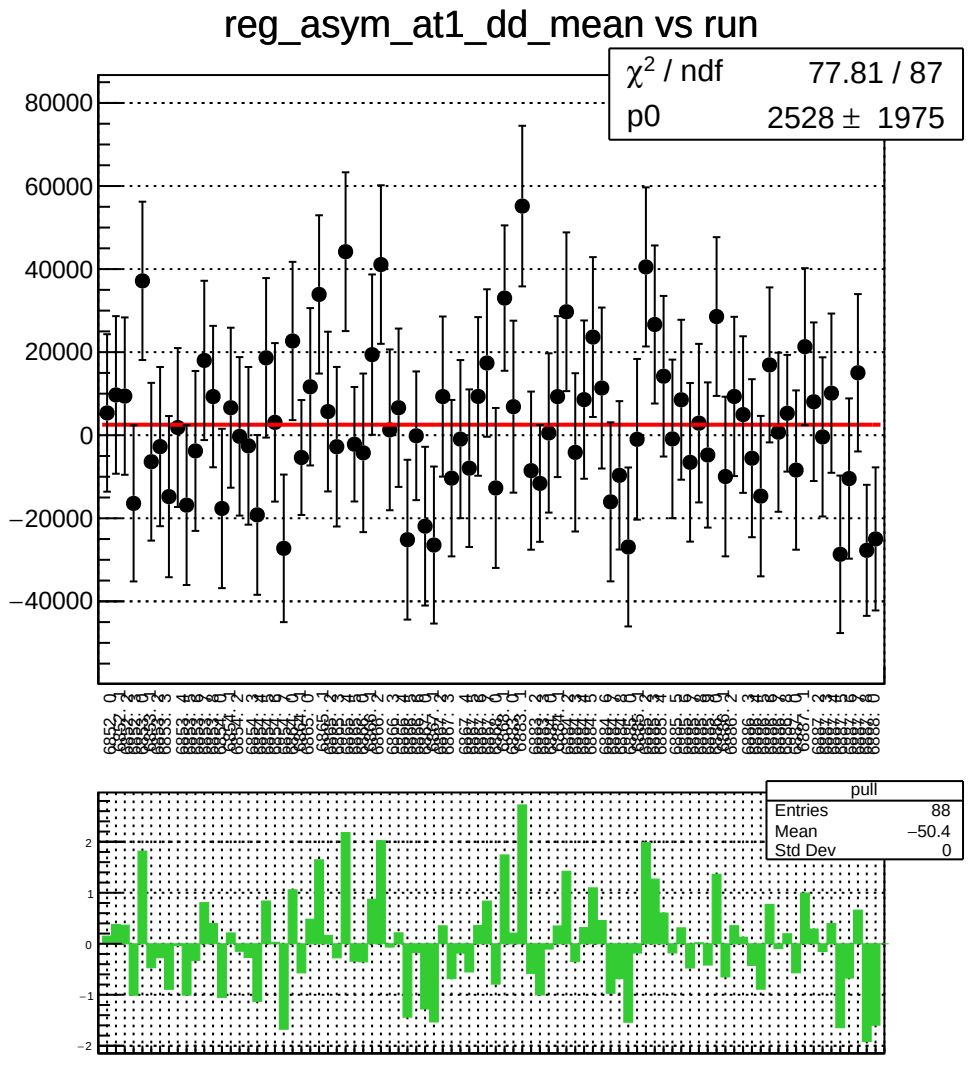

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.29 / 87
p0 0.005172 ± 0.0512
pull
Entries 88
Mean 60.28
Std Dev 53.82
pull1D
Entries 88
Mean −0.05249
Std Dev 1.023

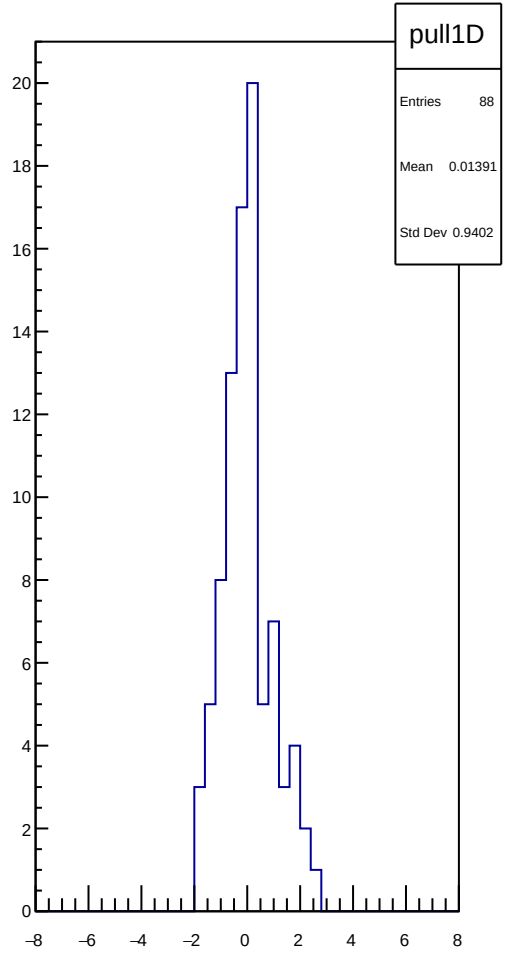

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.456e+05 / 87
p0 43.52 ± 0.0362
100
90
80
70
60
50
40
30
20

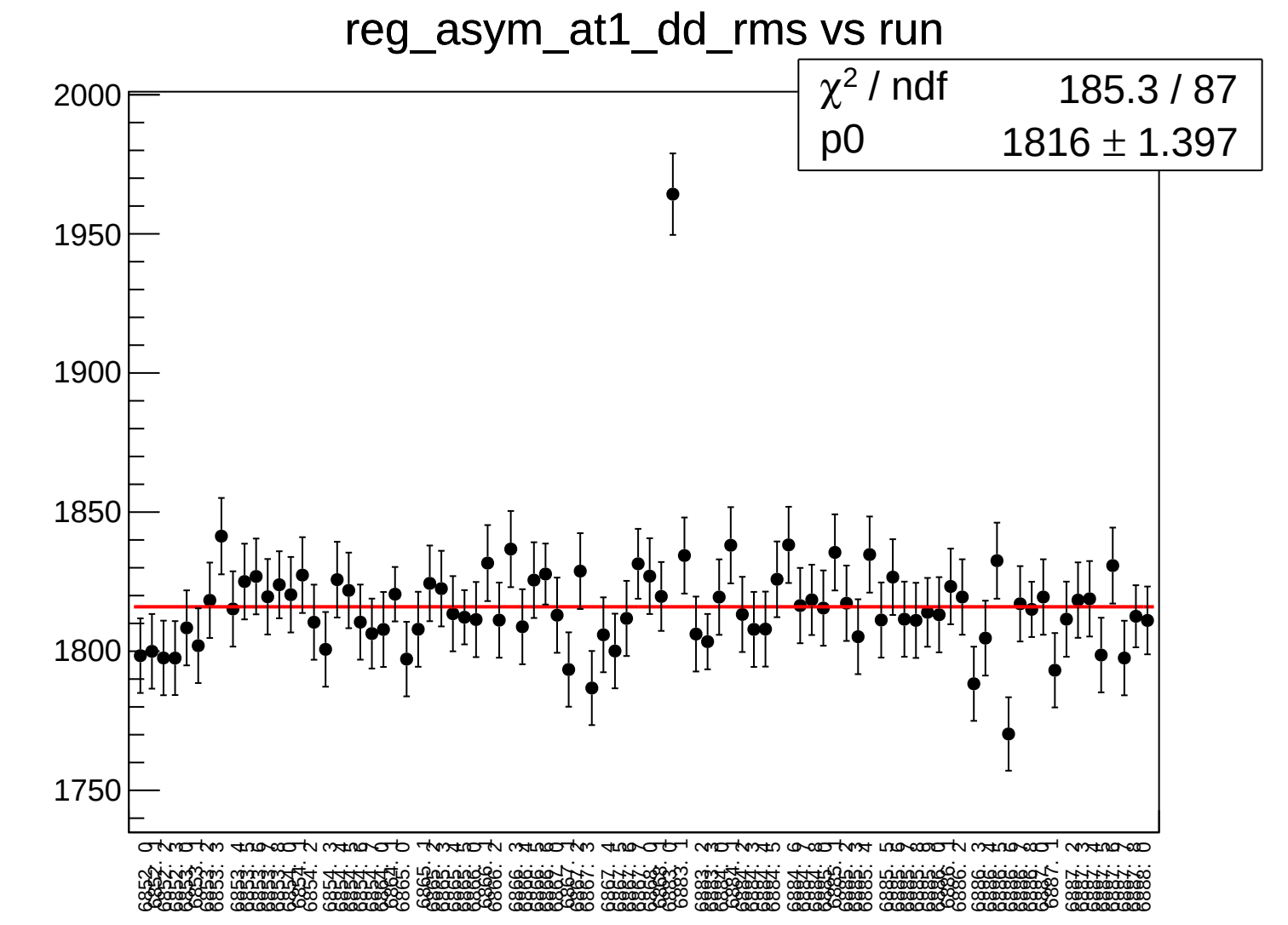

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.67 / 87
p0 −4.469e−15 ± 1.01e−14
pull
Entries 88
Mean 27.56
Std Dev 0

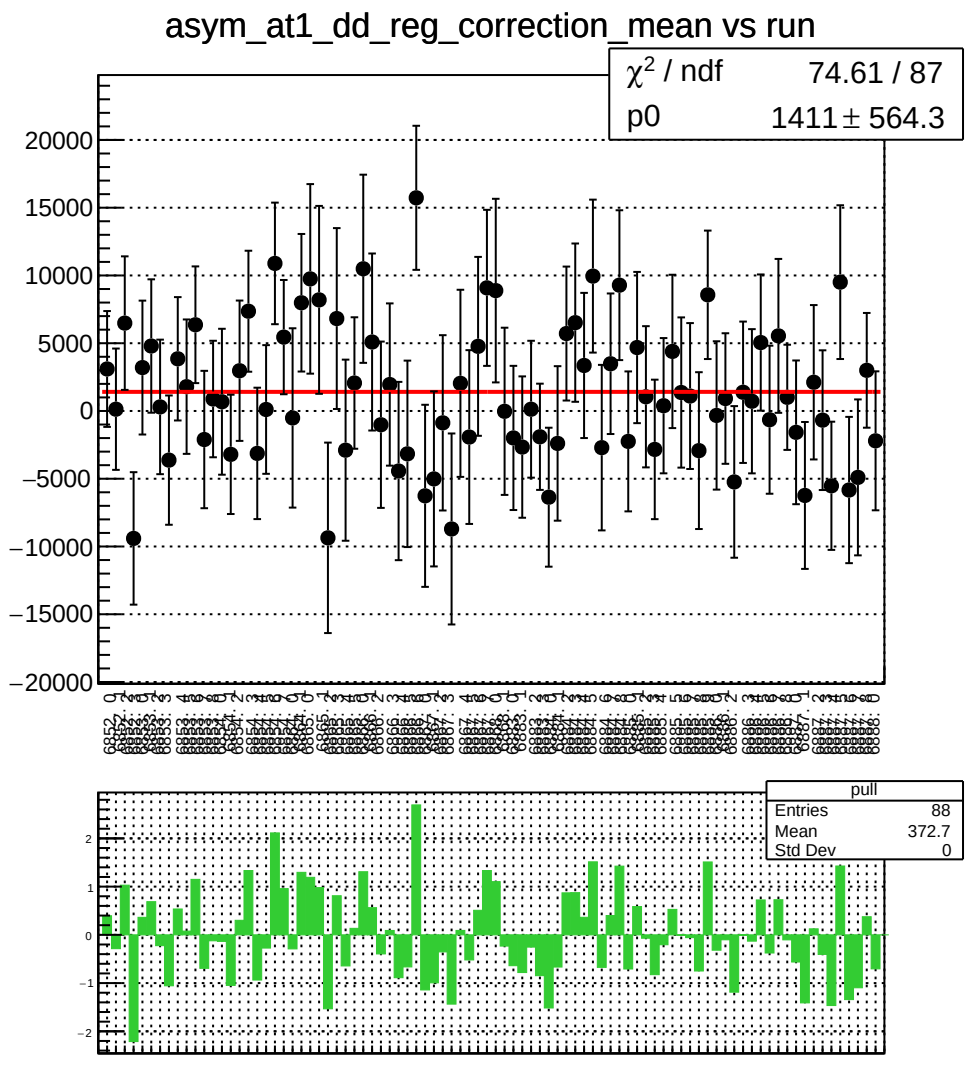

pull1D
Entries 88
Mean −0.04592
Std Dev 0.8627

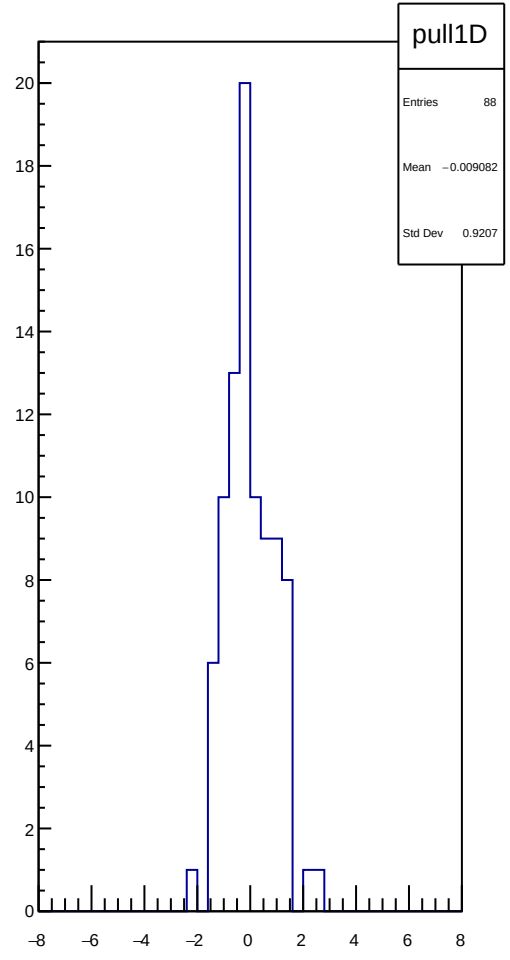

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.149e+05 / 87
p0 6.686e−12 ± 7.144e−15
90
80
70
60
50
40
30
20
10

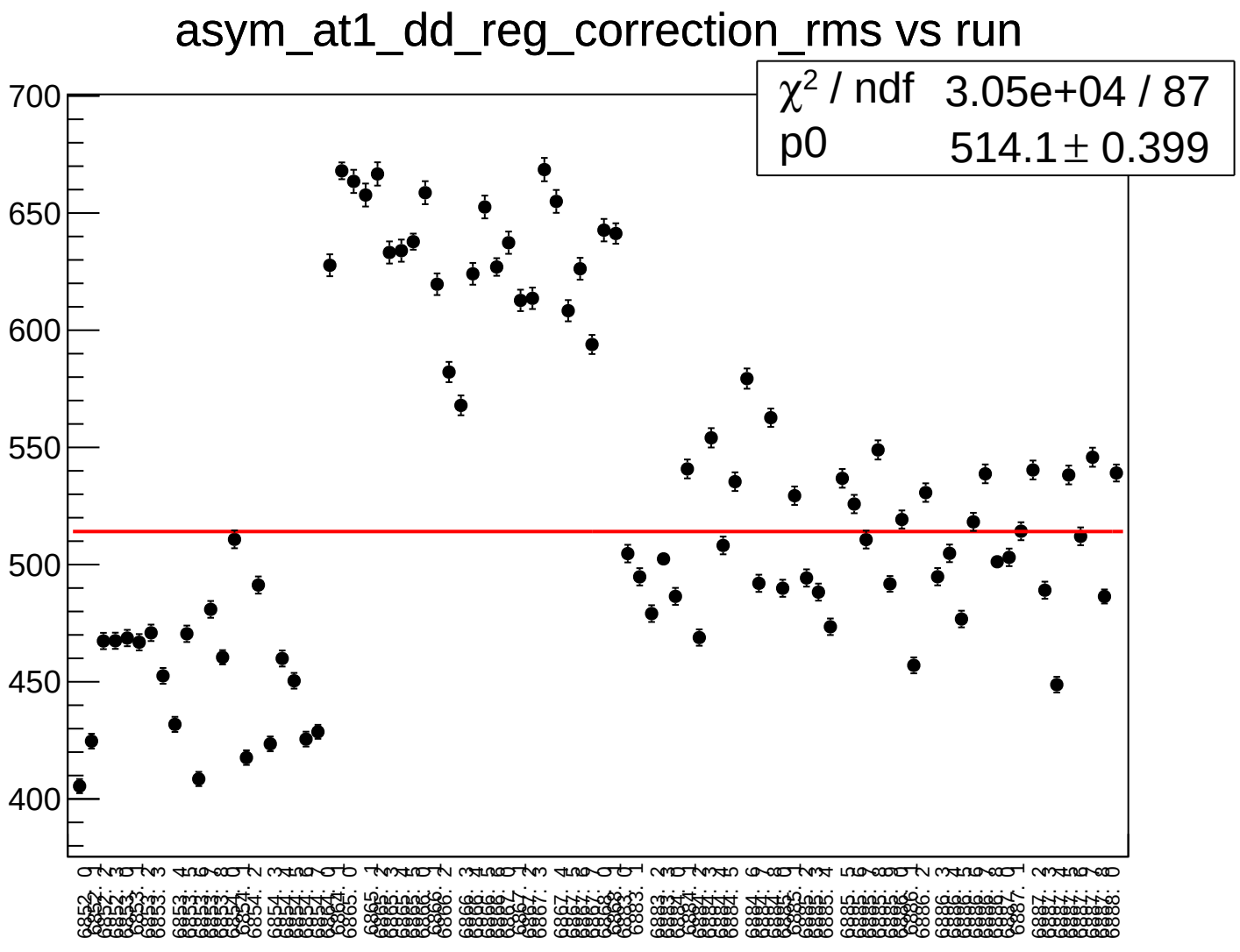

reg_asym_at1_dd_mean vs run
χ² / ndf 77.81 / 87
p0 2528 ± 1975
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −50.4
Std Dev 0
2
1
0
−1
−2

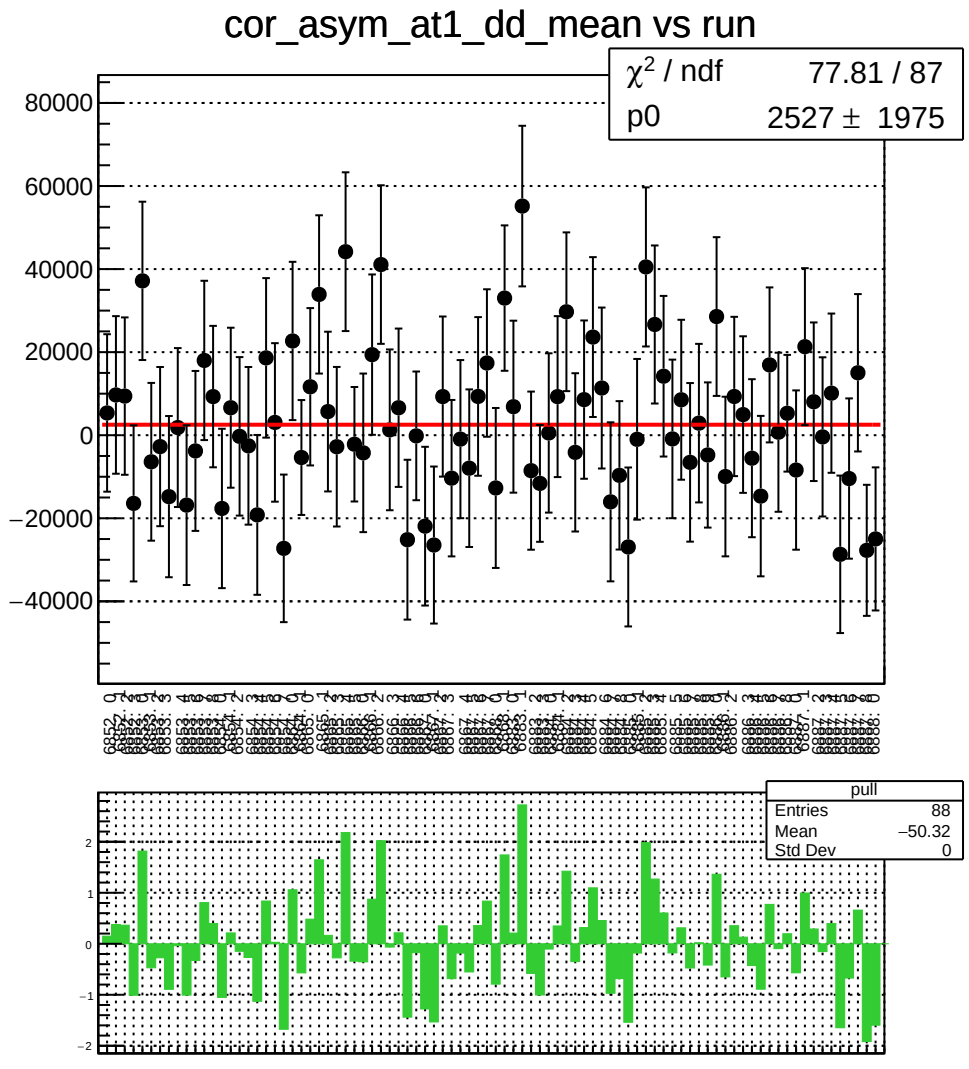

pull1D
Entries 88
Mean 0.01391
Std Dev 0.9402
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

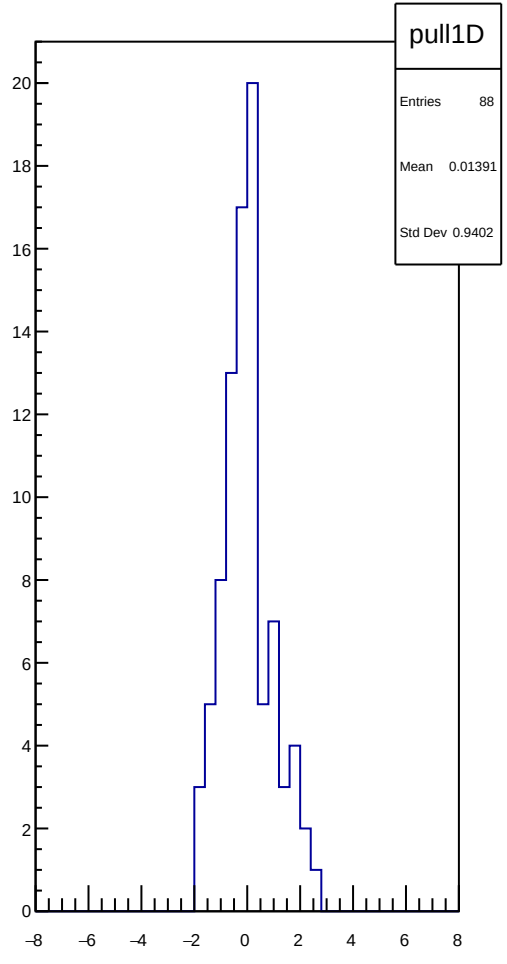

reg_asym_at1_dd_rms vs run
χ² / ndf 185.3 / 87
p0 1816 ± 1.397
2000
1950
1900
1850
1800
1750

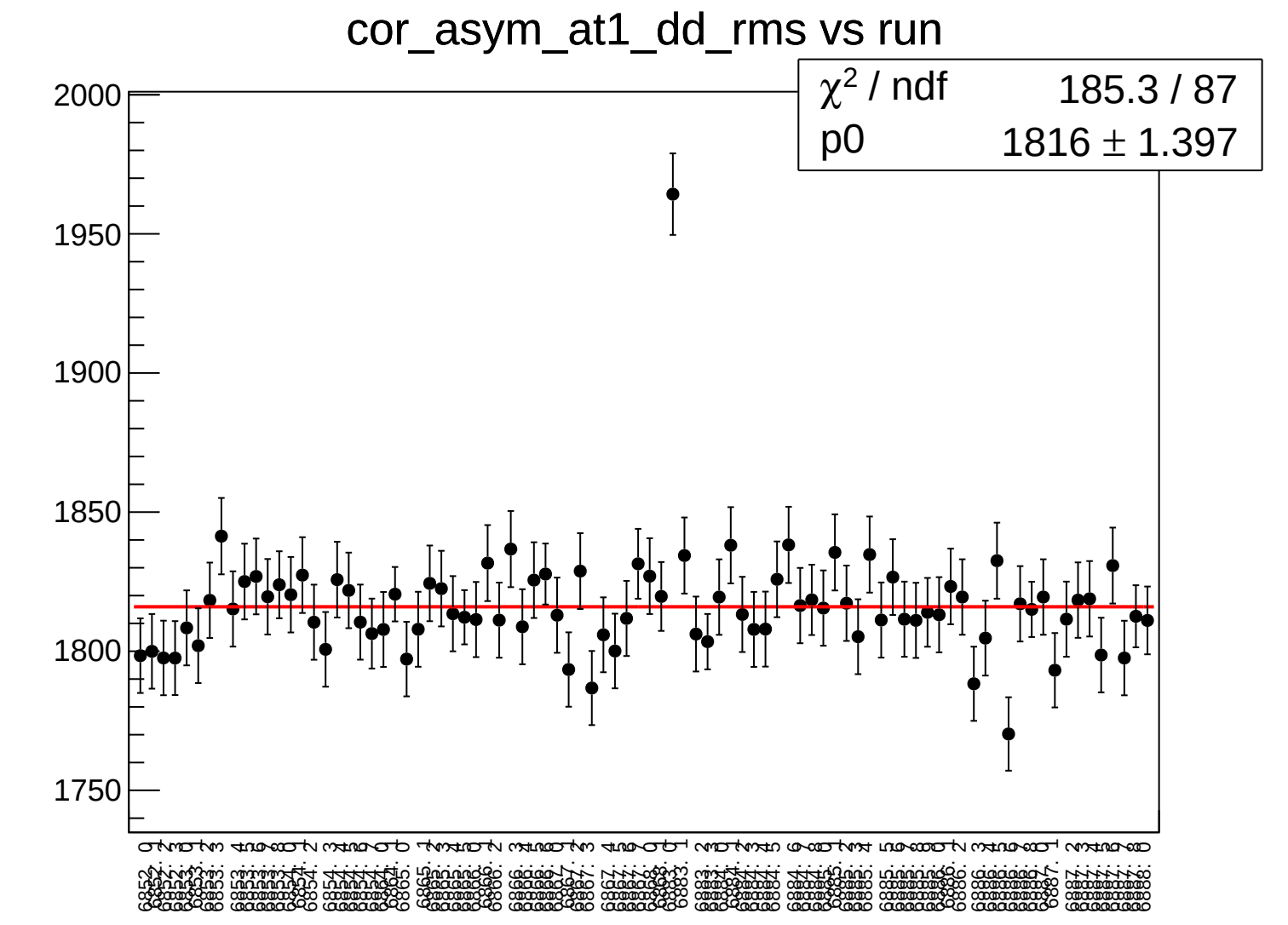

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 74.61 / 87
p0 1411 ± 564.3
pull
Entries 88
Mean 372.7
Std Dev 0

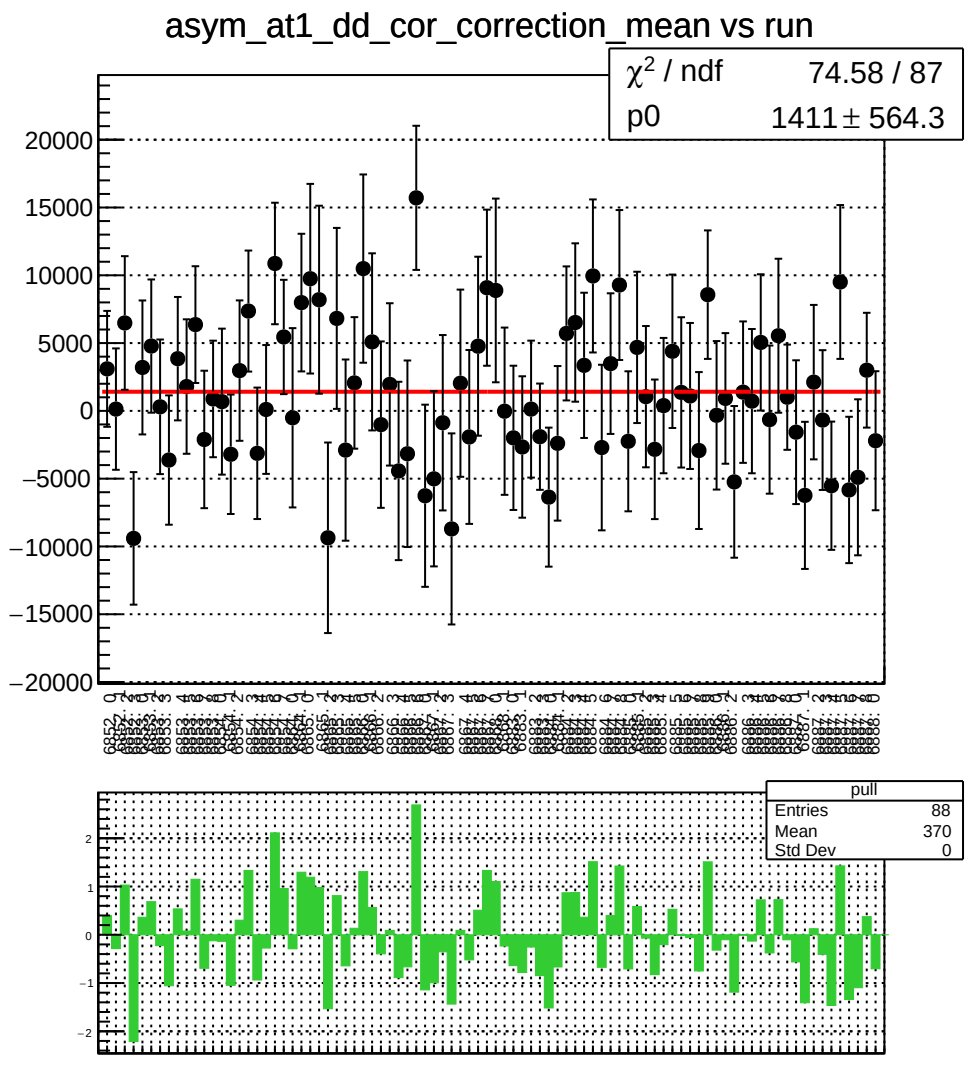

pull1D
Entries 88
Mean −0.009082
Std Dev 0.9207

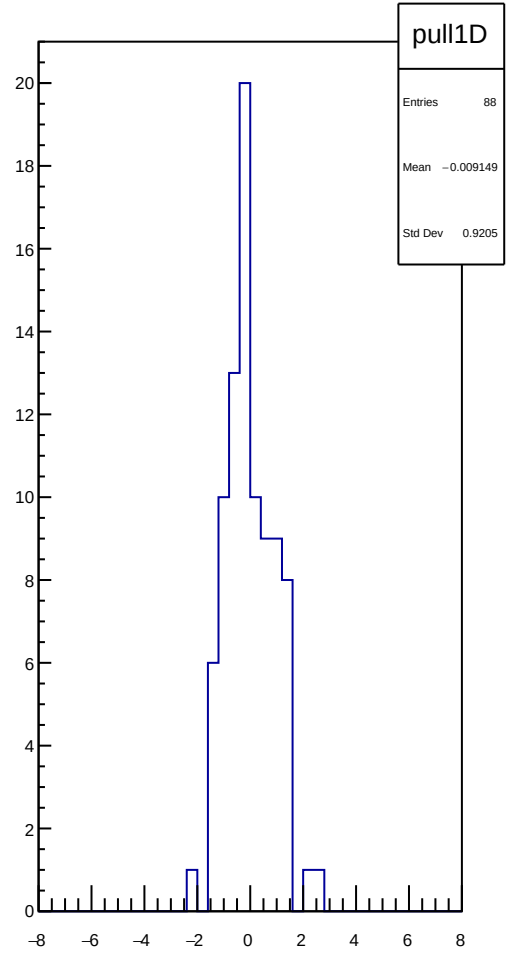

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 3.05e+04 / 87
p0 514.1 ± 0.399
700
650
600
550
500
450
400

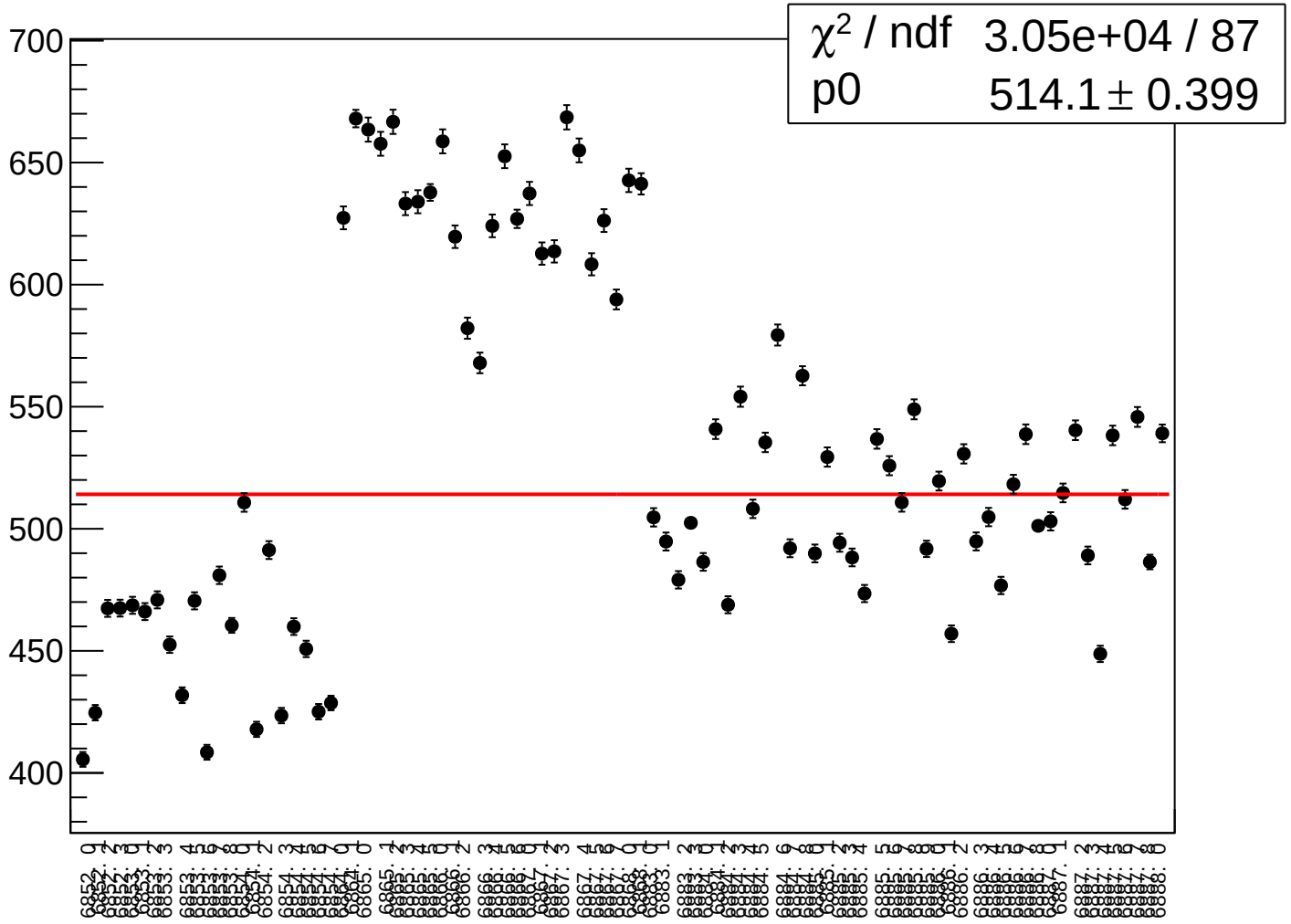

cor_asym_at1_dd_mean vs run
χ² / ndf 77.81 / 87
p0 2527 ± 1975
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −50.32
Std Dev 0
2
1
0
−1
−2

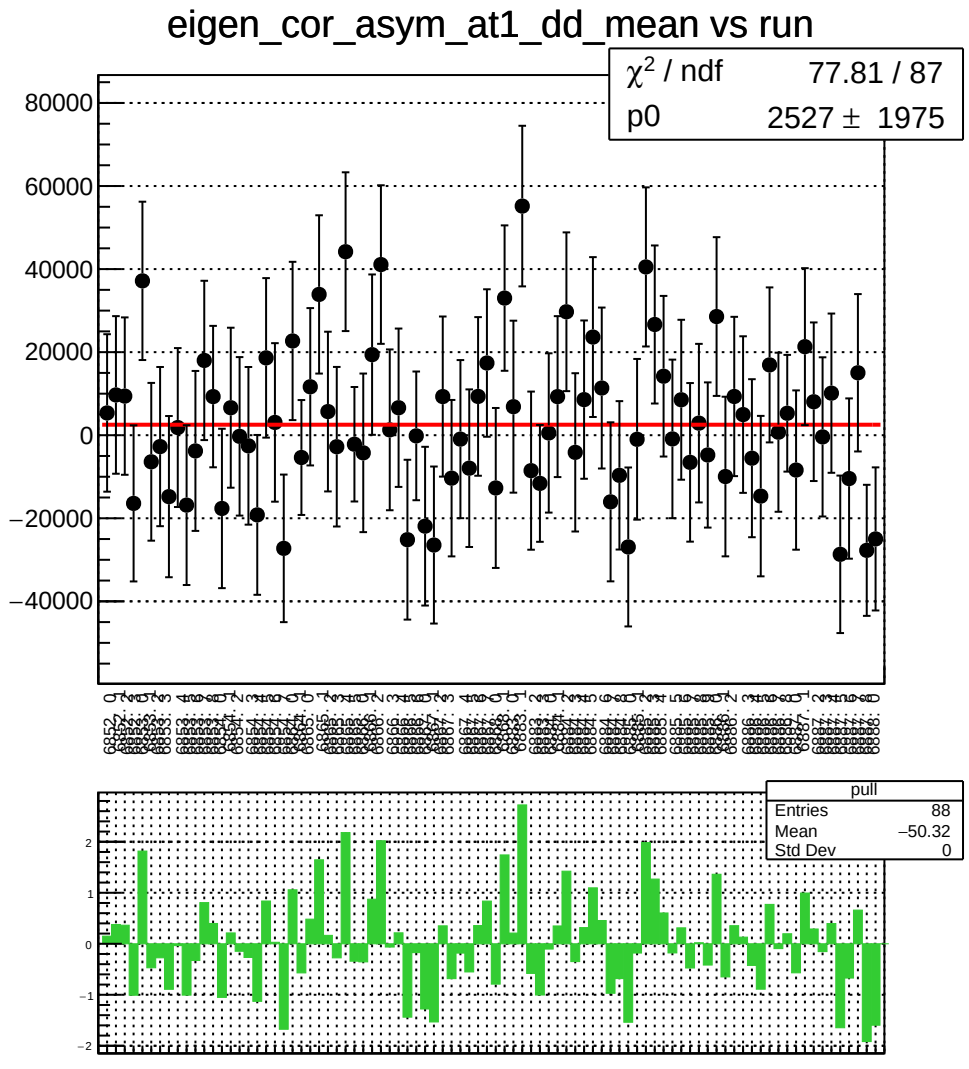

pull1D
Entries 88
Mean 0.01391
Std Dev 0.9402
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

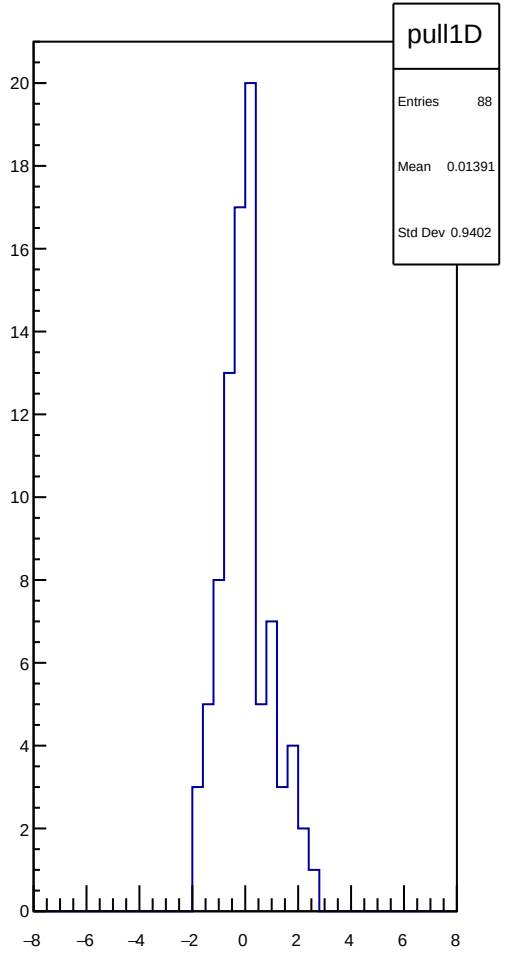

cor_asym_at1_dd_rms vs run
χ² / ndf 185.3 / 87
p0 1816 ± 1.397
2000
1950
1900
1850
1800
1750

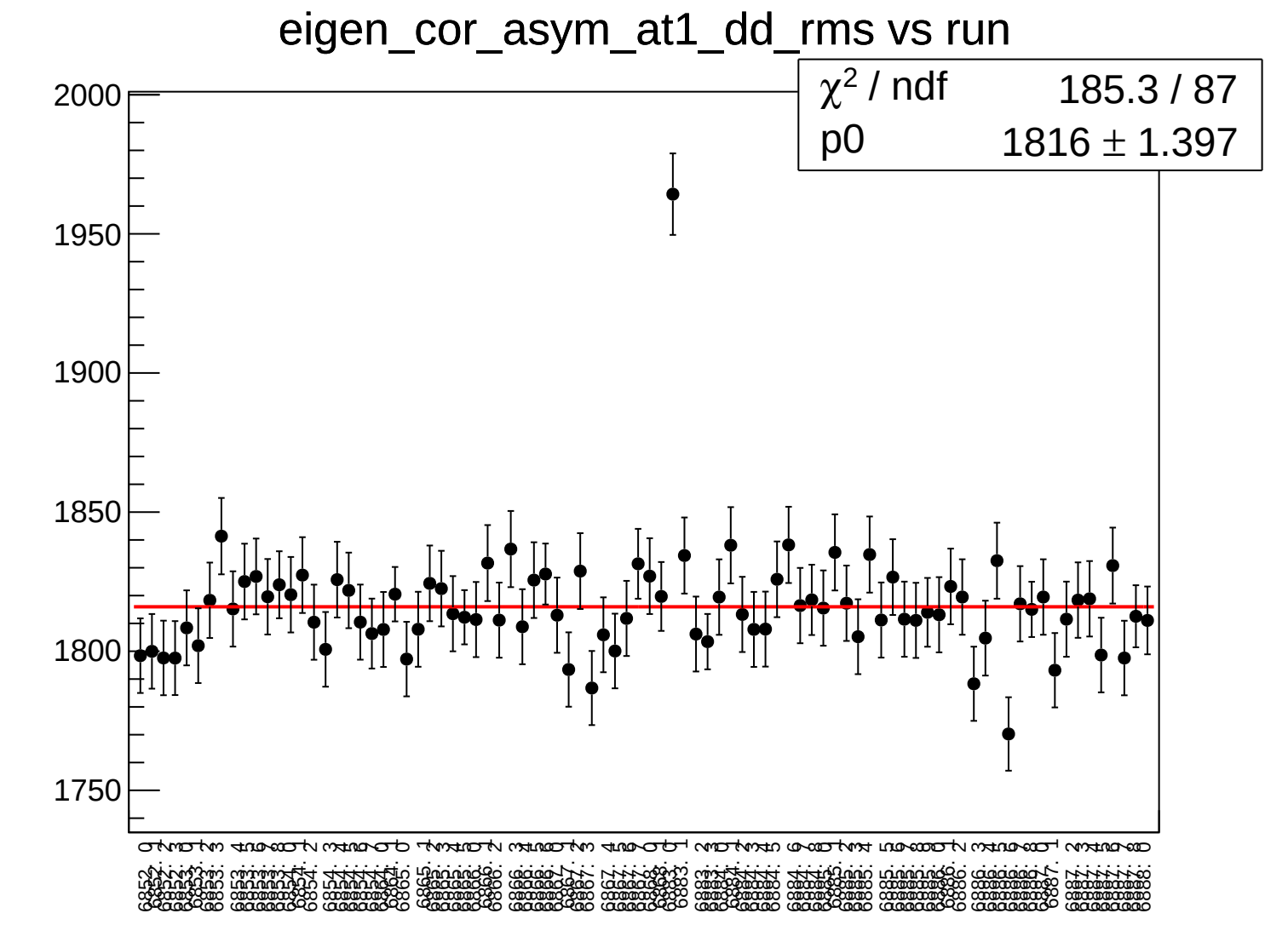

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 74.58 / 87
p0 1411 ± 564.3
pull
Entries 88
Mean 370
Std Dev 0

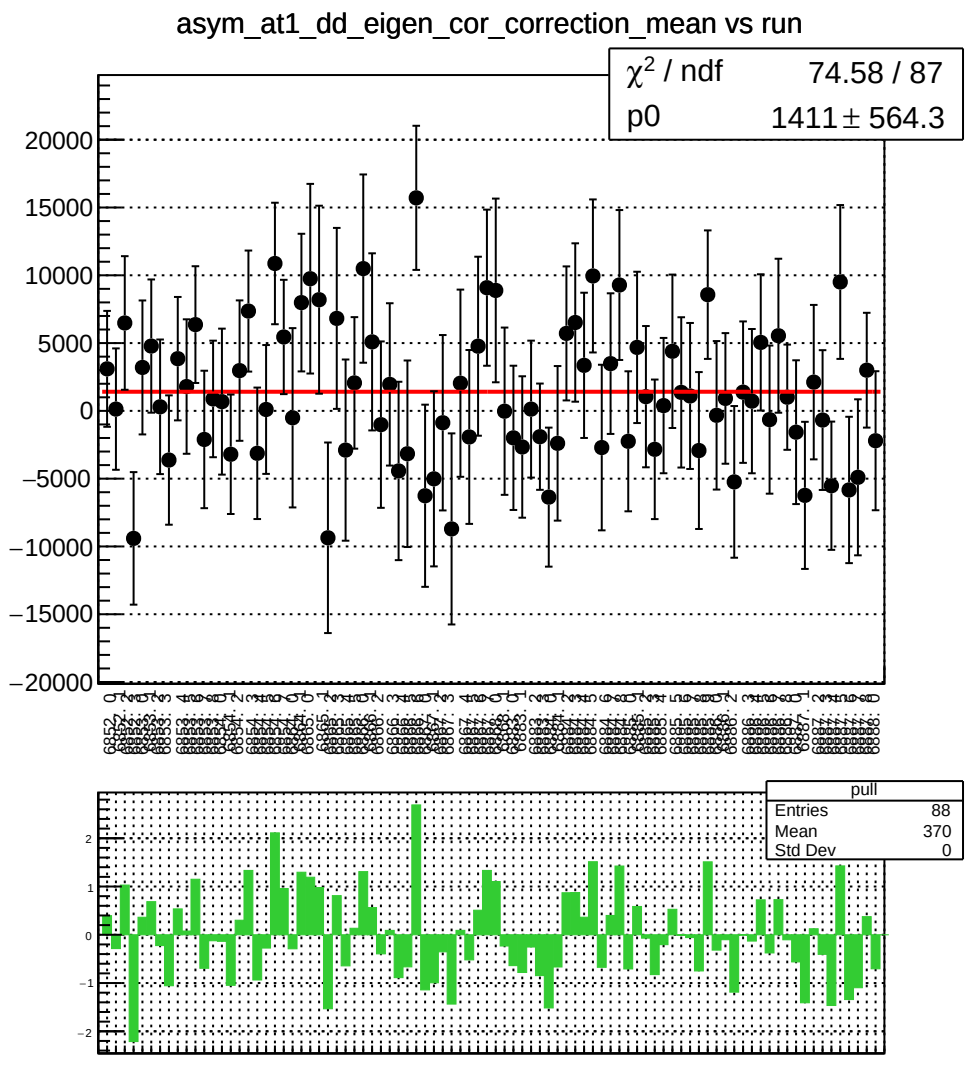

pull1D
Entries 88
Mean −0.009149
Std Dev 0.9205

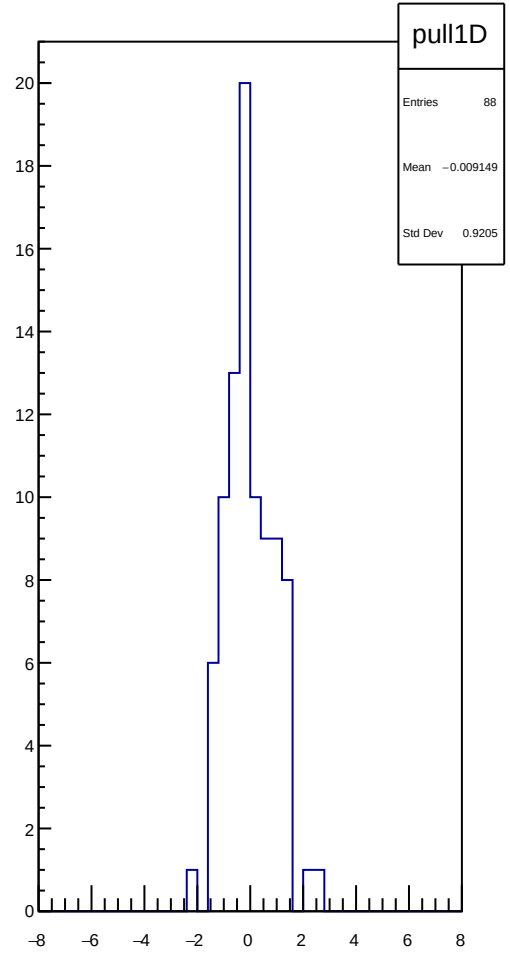

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 3.05e+04 / 87
p0 514.1 ± 0.399
700
650
600
550
500
450
400

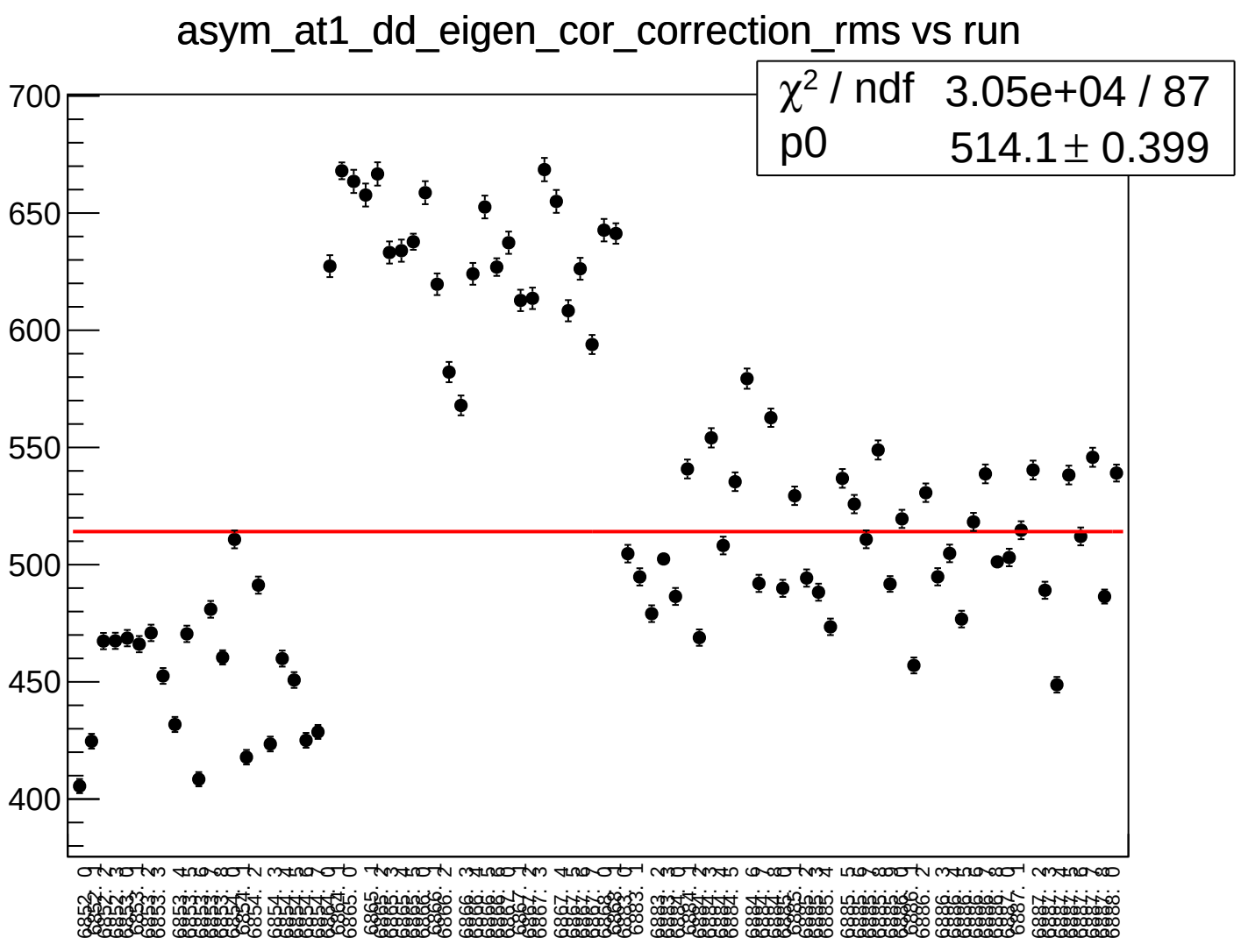

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 77.81 / 87
p0 2527 ± 1975
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −50.32
Std Dev 0
2
1
0
−1
−2

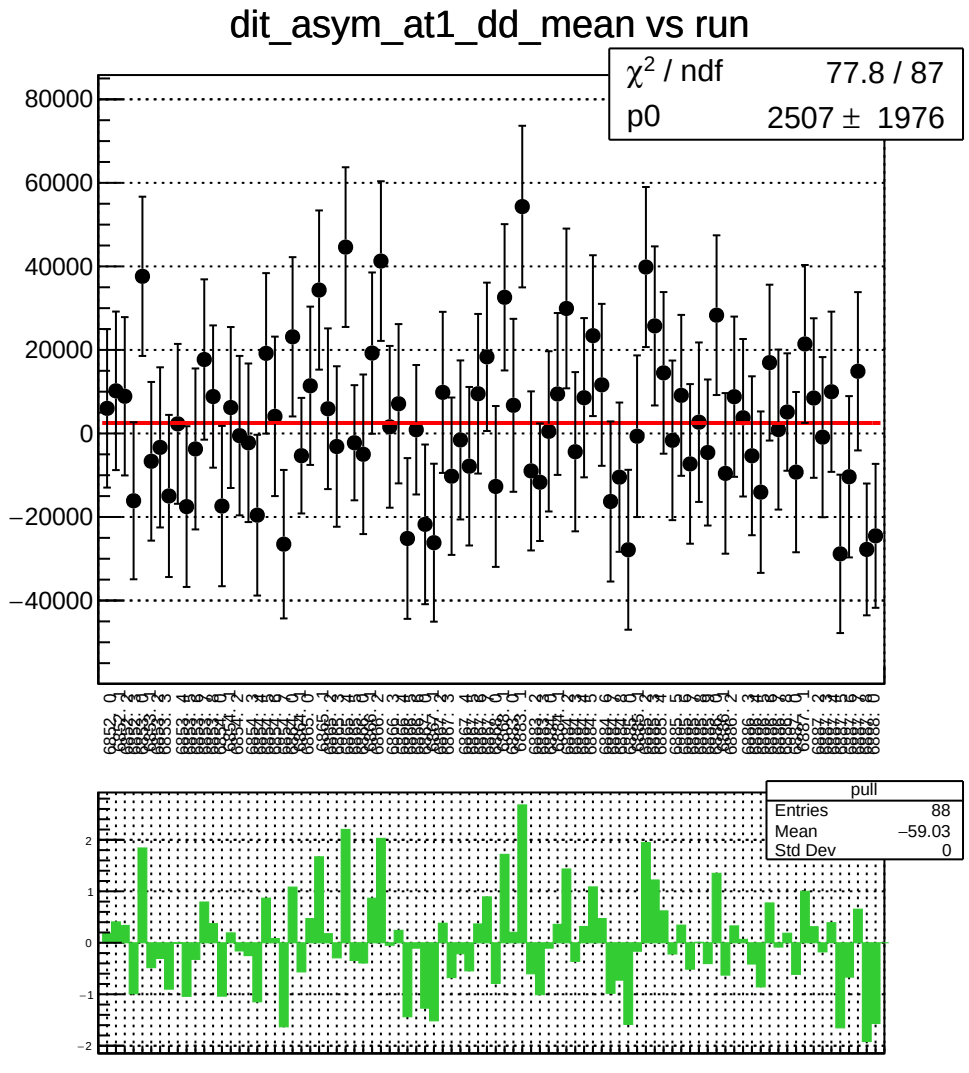

pull1D
Entries 88
Mean 0.01391
Std Dev 0.9402
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

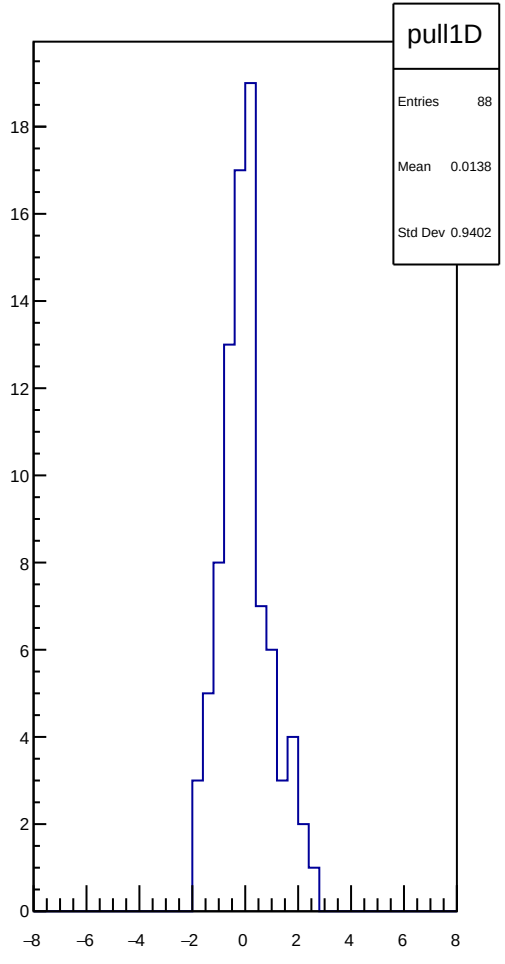

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 185.3 / 87
p0 1816 ± 1.397
2000
1950
1900
1850
1800
1750

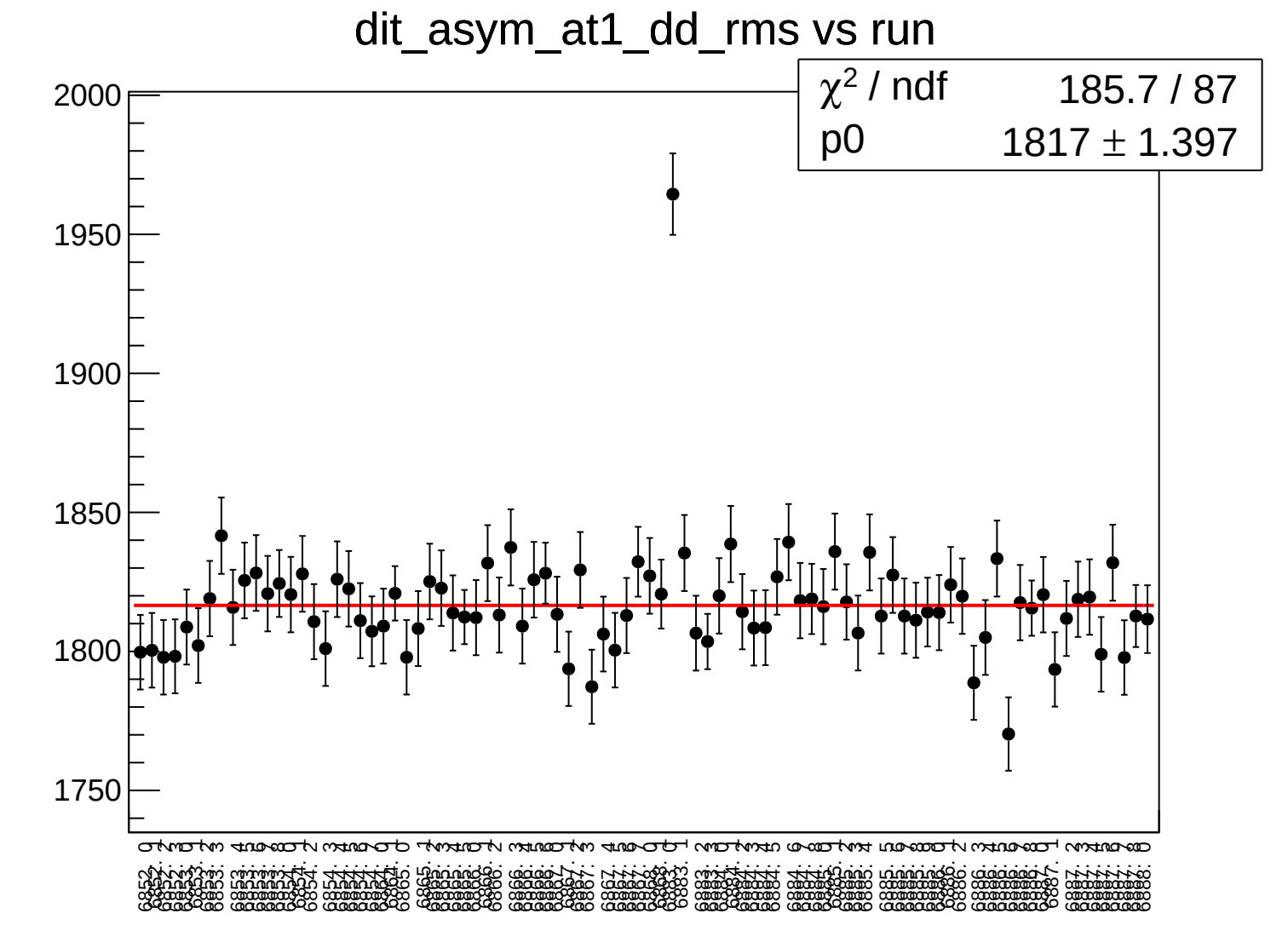

asym_at1_dd_eigen_cor_correction_mean vs run
χ^2 / ndf 74.58 / 87
p0 1411 ± 564.3
pull
Entries 88
Mean 370
Std Dev 0

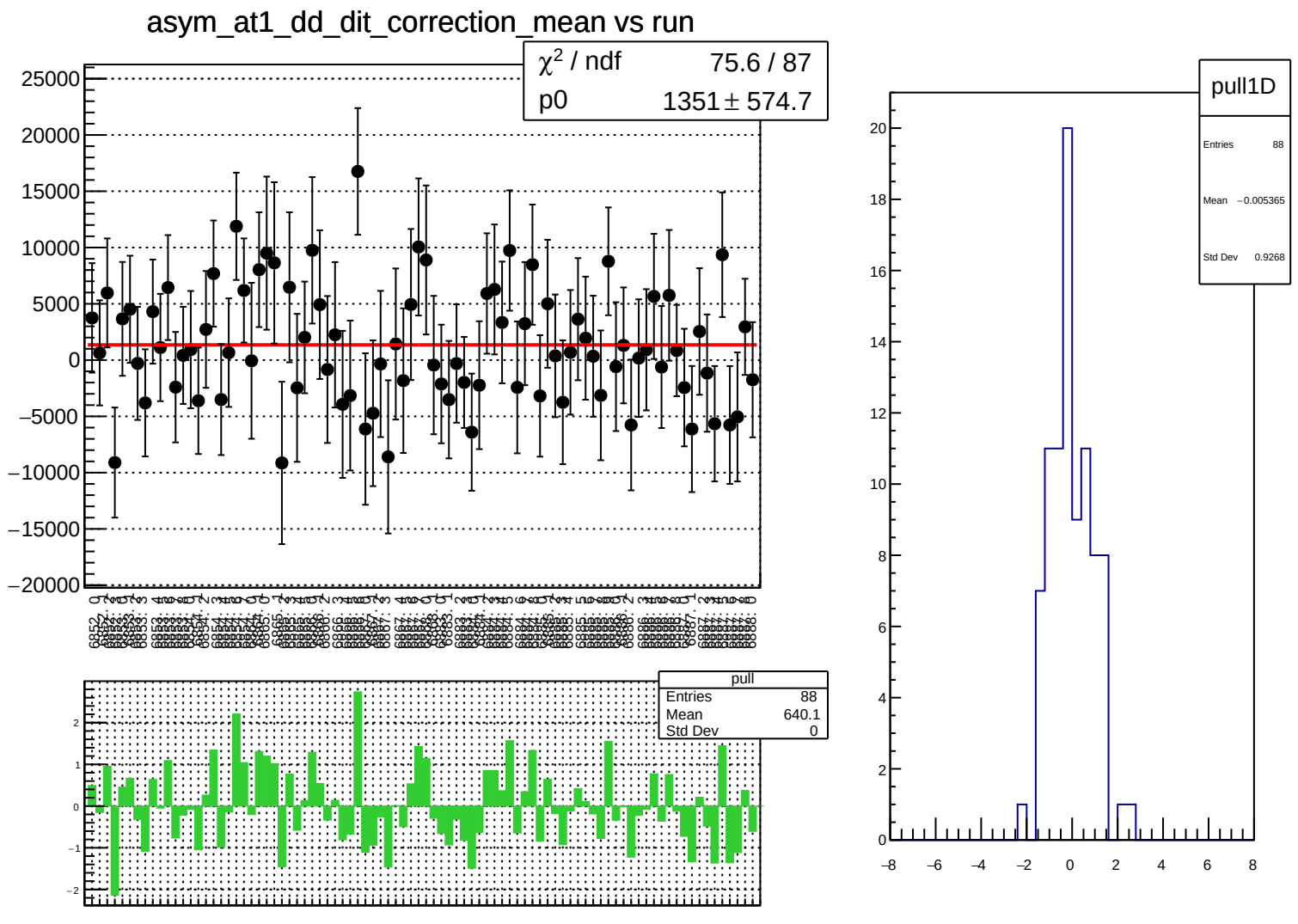

pull1D
Entries 88
Mean −0.009149
Std Dev 0.9205

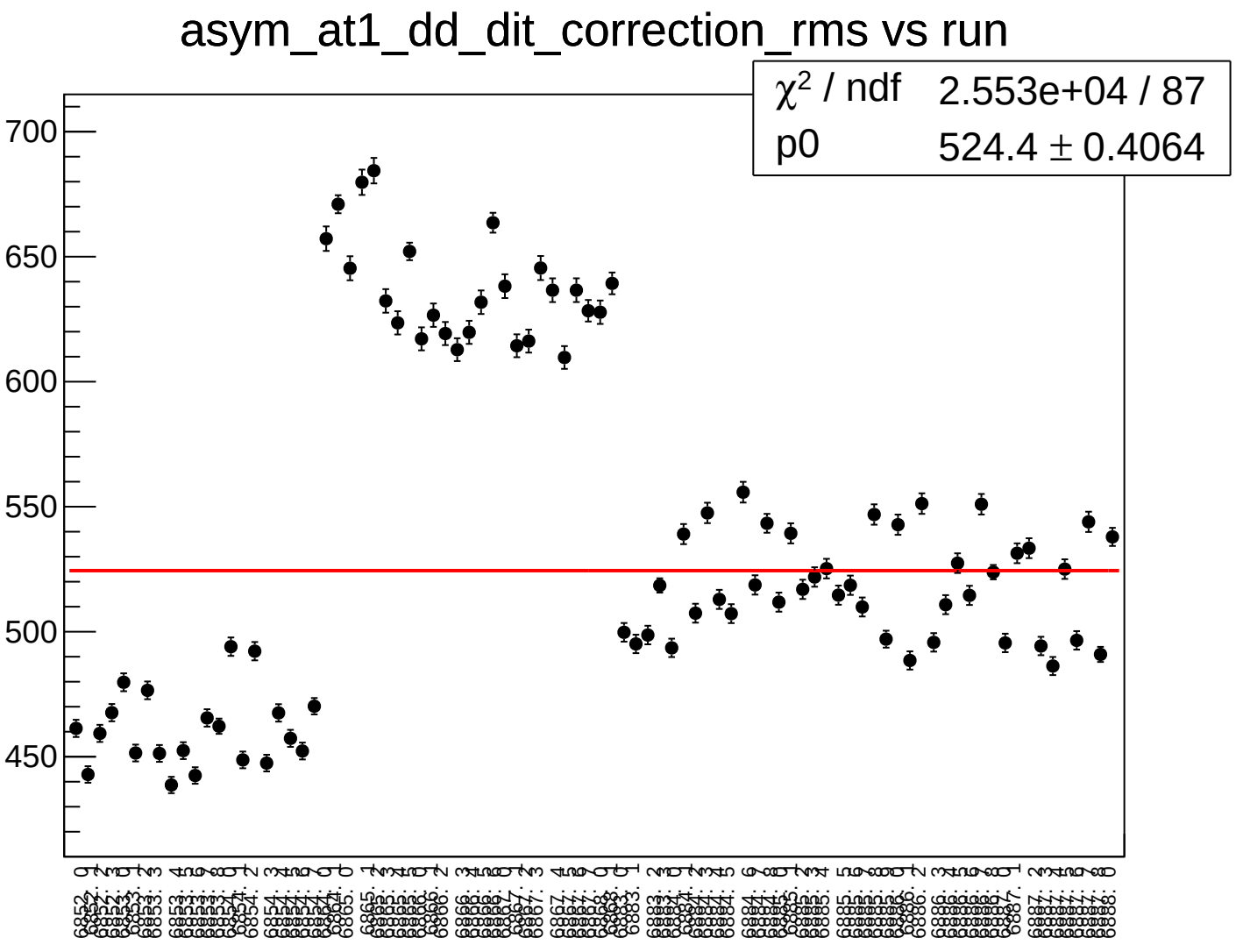

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.05e+04 / 87
p0 514.1 ± 0.399
700
650
600
550
500
450
400

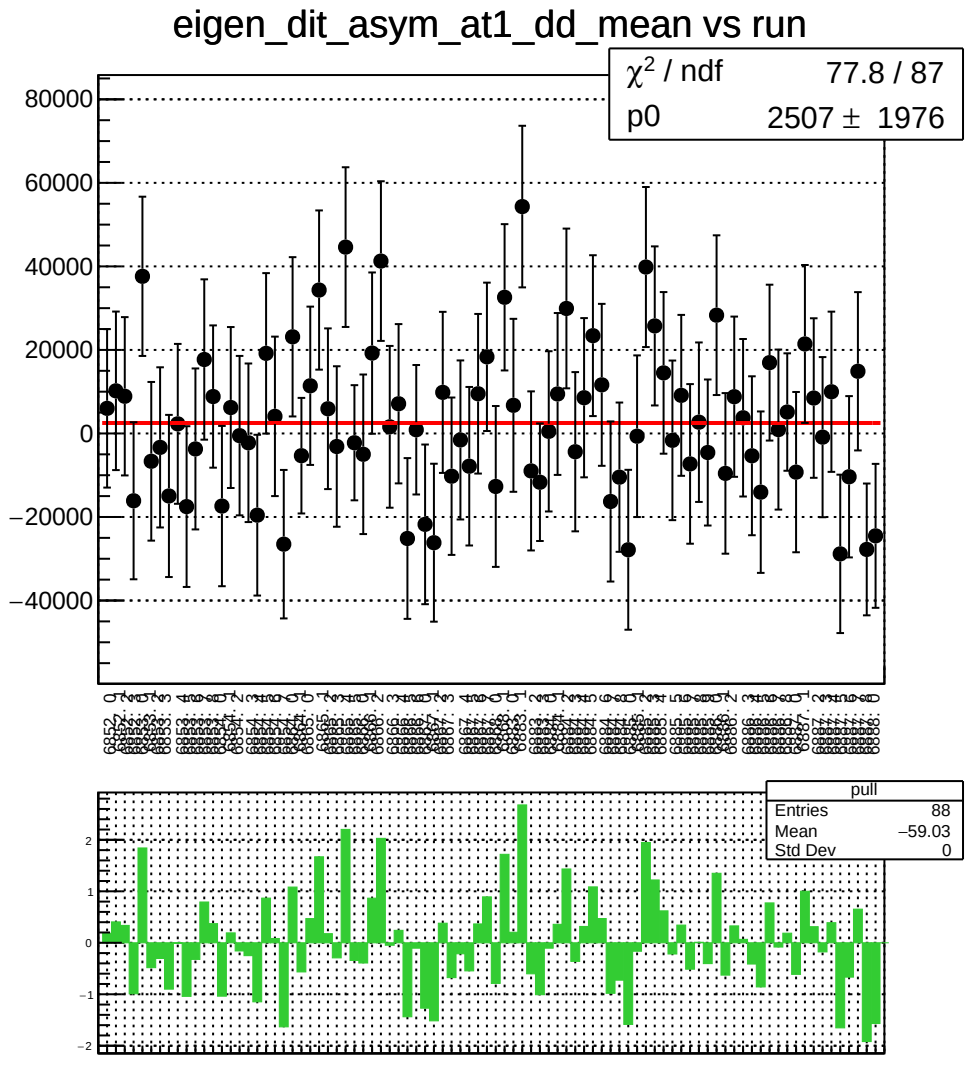

dit_asym_at1_dd_mean vs run
χ² / ndf 77.8 / 87
p0 2507 ± 1976
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −59.03
Std Dev 0
2
1
0
−1
−2

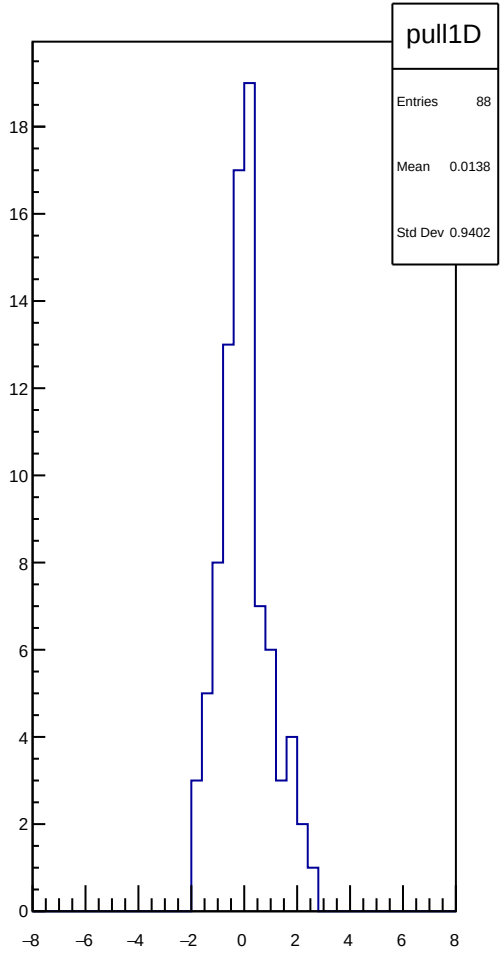

pull1D
Entries 88
Mean 0.0138
Std Dev 0.9402
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

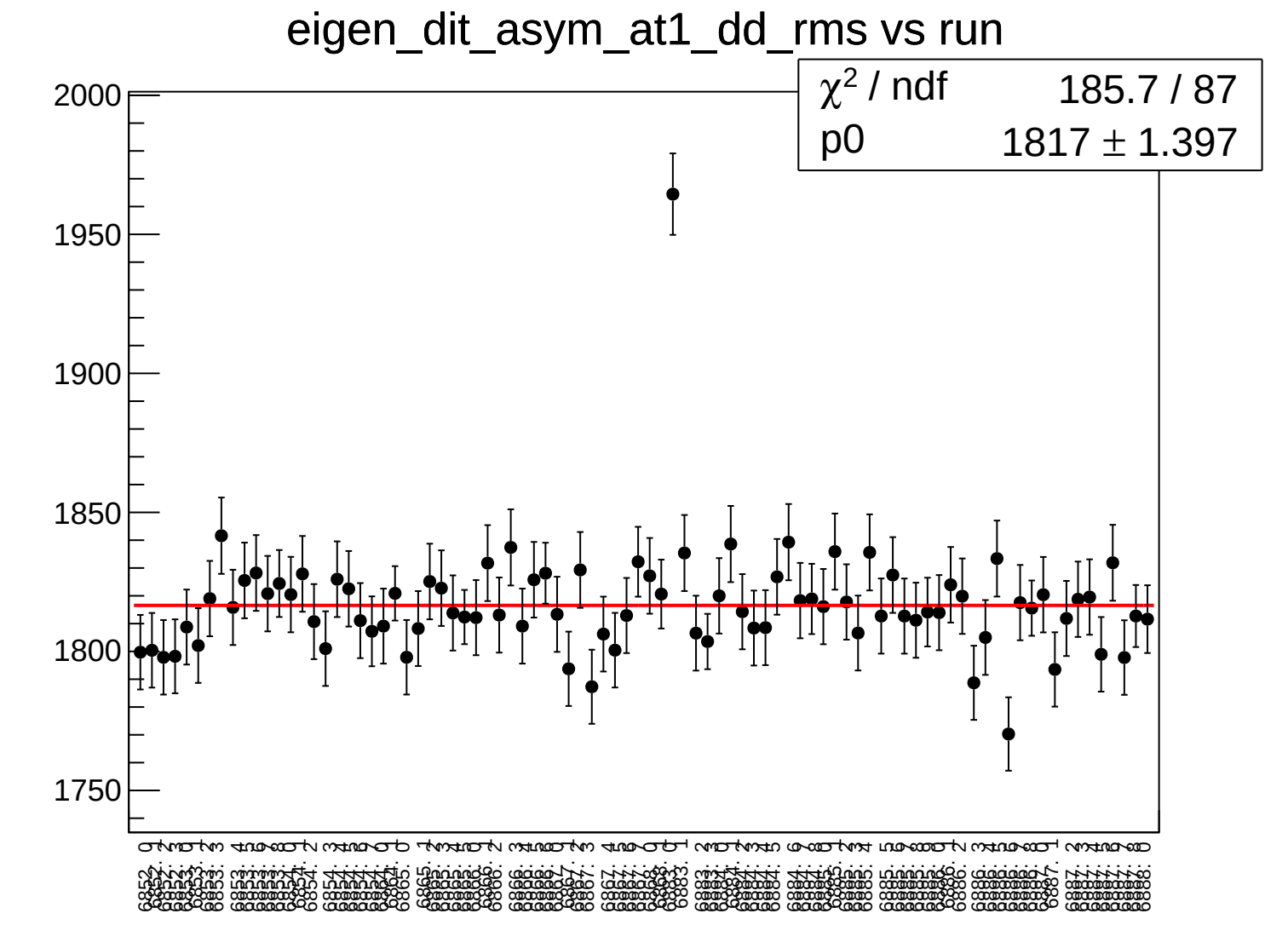

dit_asym_at1_dd_rms vs run
χ² / ndf 185.7 / 87
p0 1817 ± 1.397
2000
1950
1900
1850
1800
1750

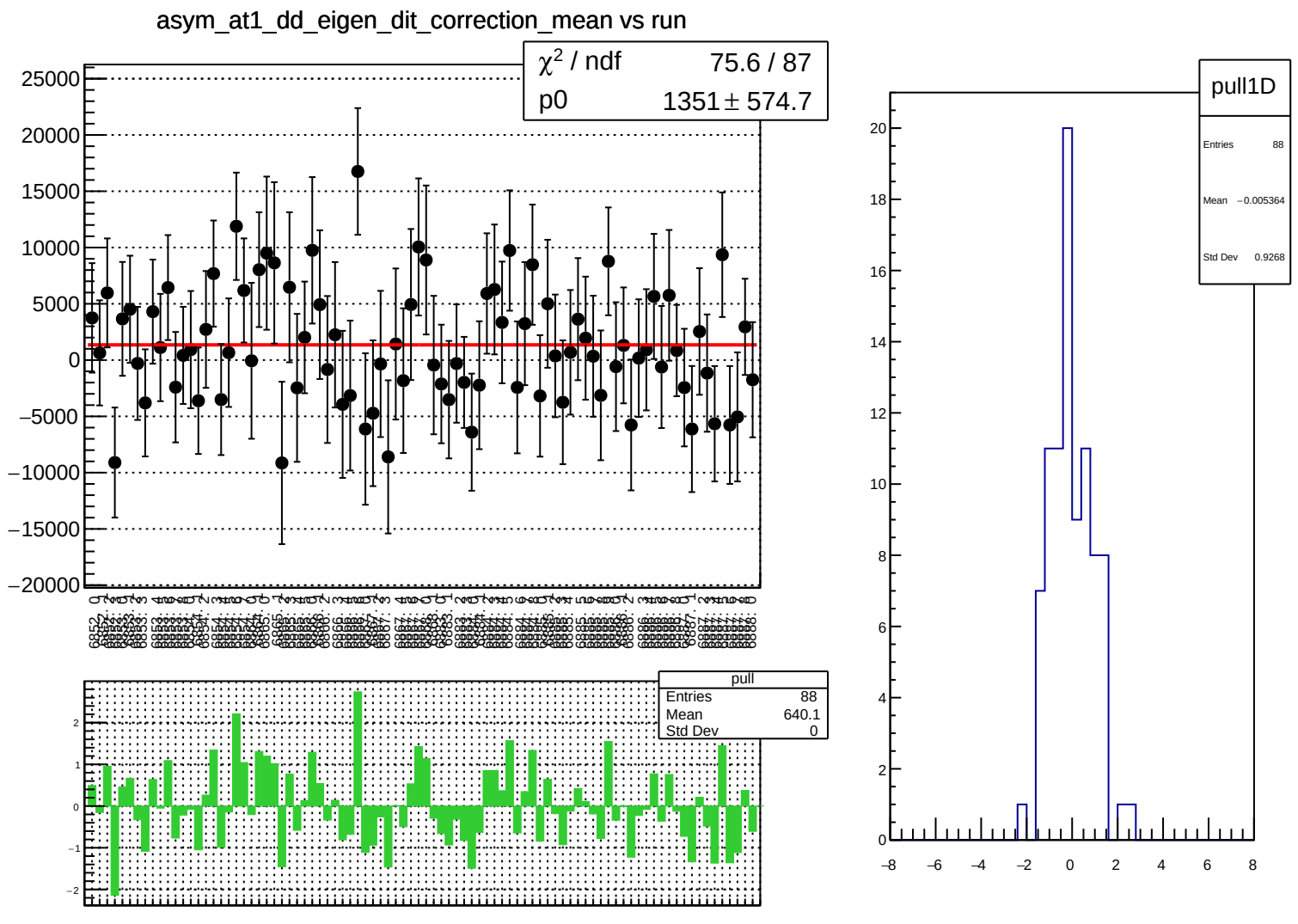

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 75.6 / 87
p0 1351 ± 574.7
pull
Entries 88
Mean 640.1
Std Dev 0
pull1D
Entries 88
Mean −0.005365
Std Dev 0.9268

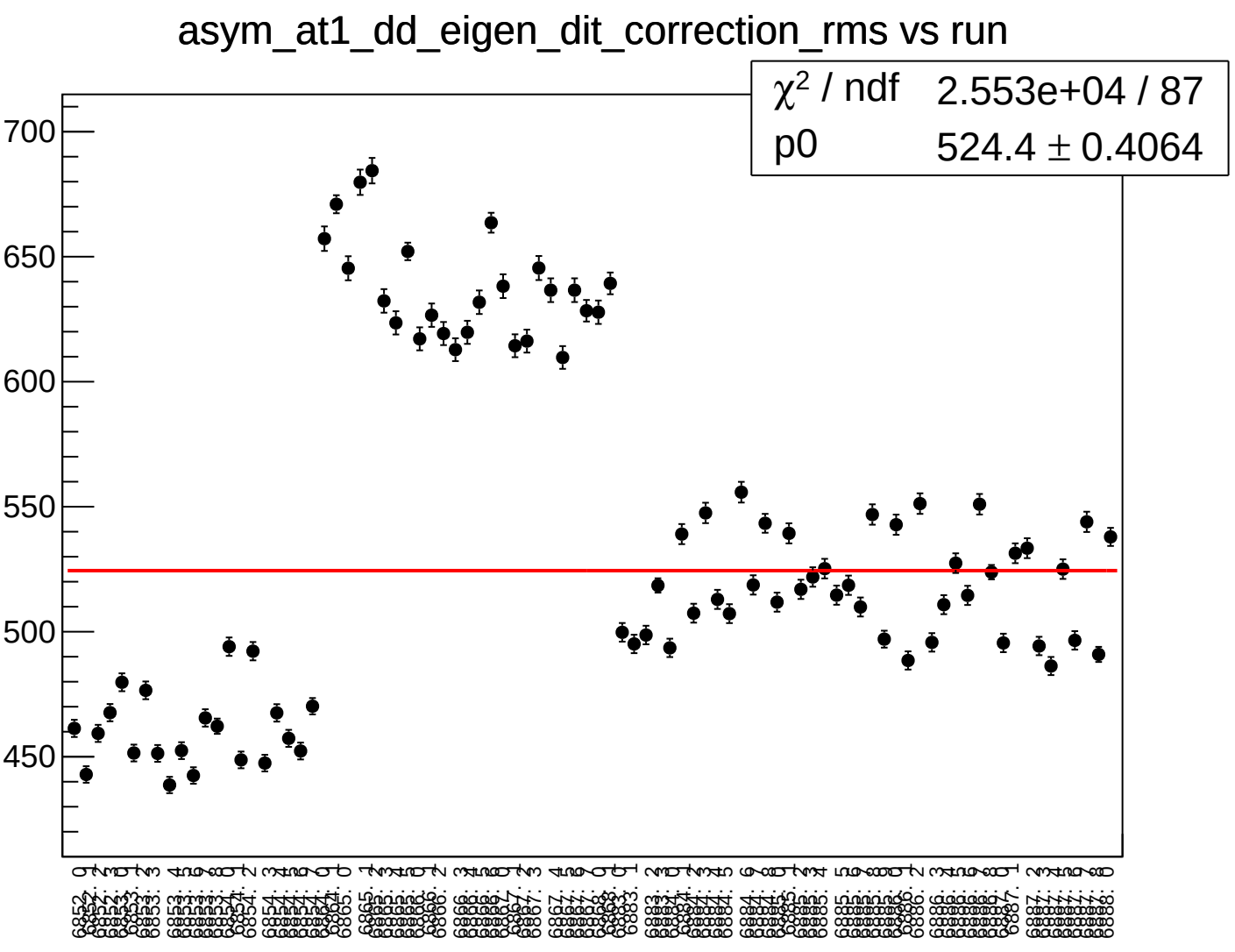

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 2.553e+04 / 87
p0 524.4 ± 0.4064
700
650
600
550
500
450

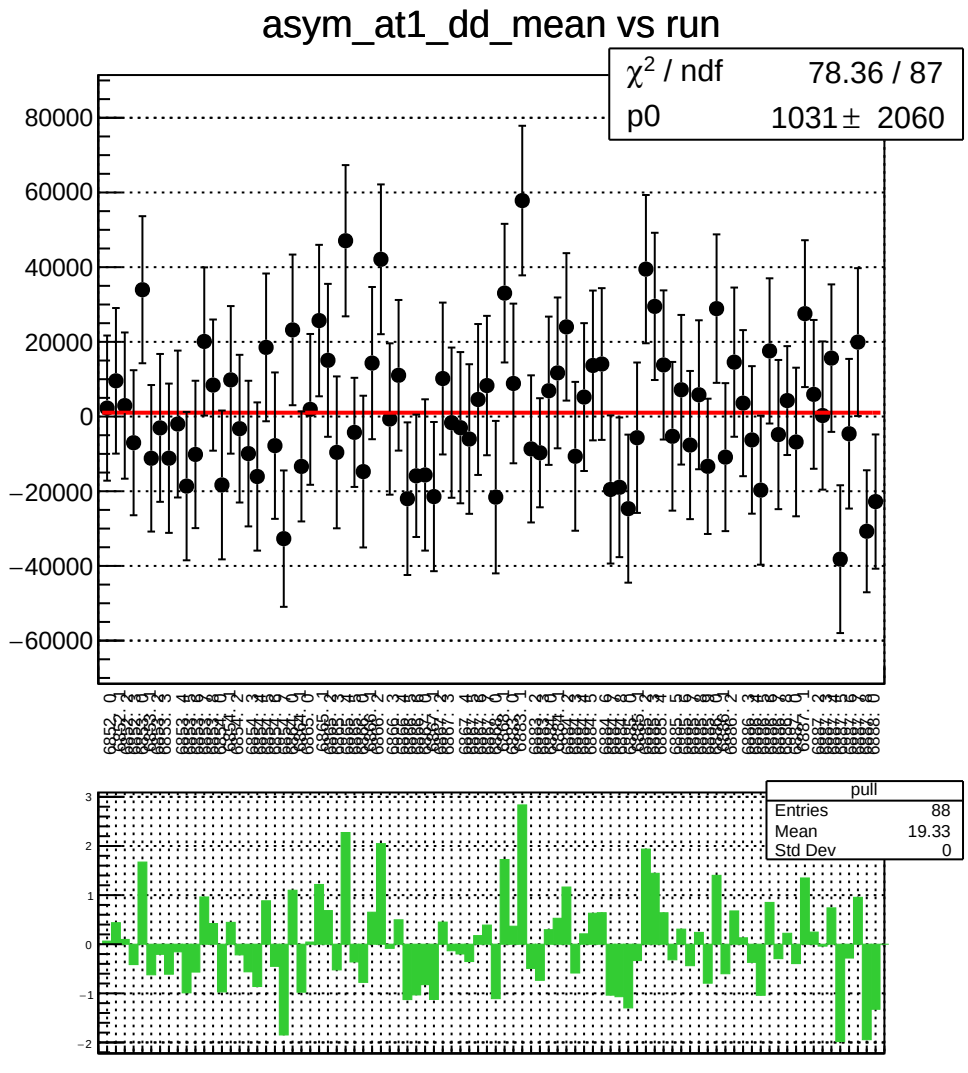

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 77.8 / 87
p0 2507 ± 1976
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −59.03
Std Dev 0
2
1
0
−1
−2

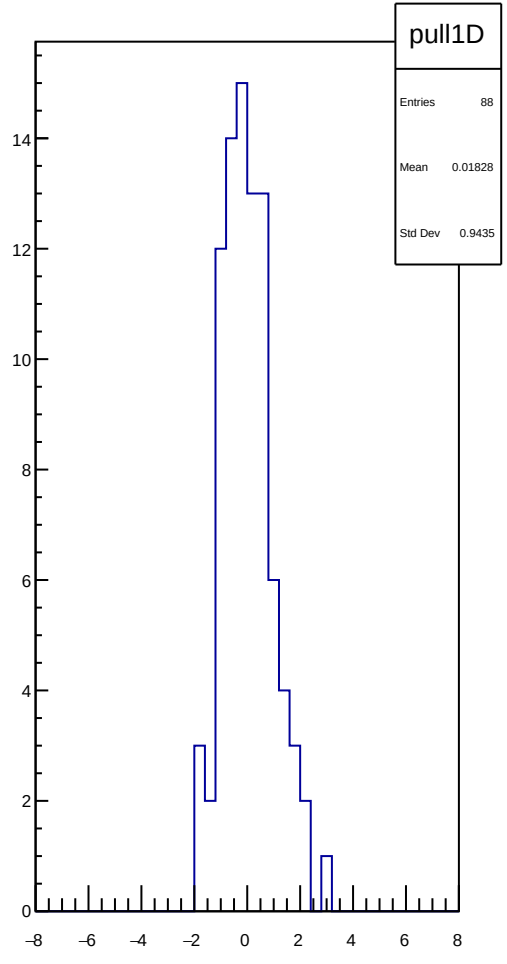

pull1D
Entries 88
Mean 0.0138
Std Dev 0.9402
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

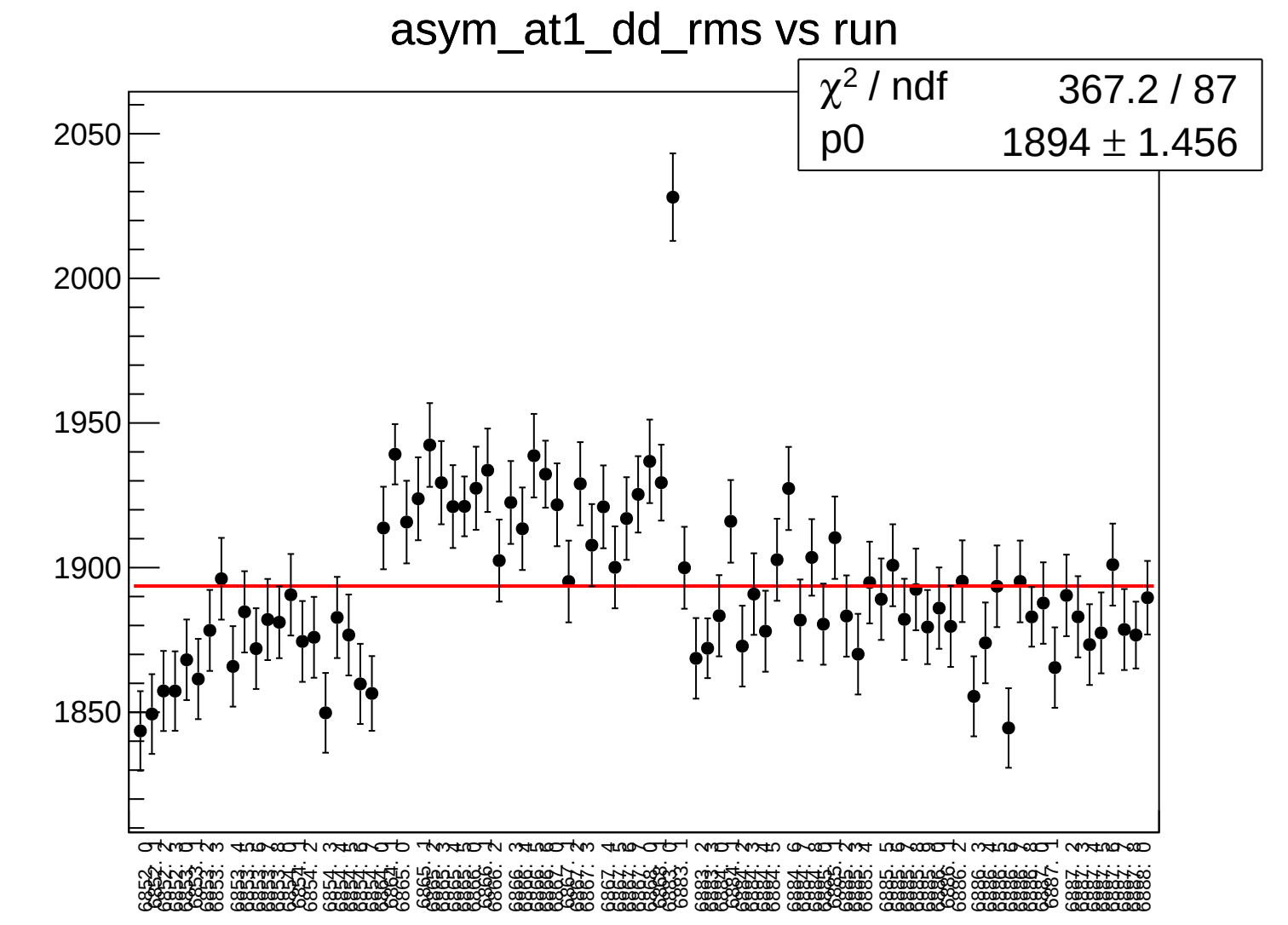

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 185.7 / 87
p0 1817 ± 1.397
2000
1950
1900
1850
1800
1750

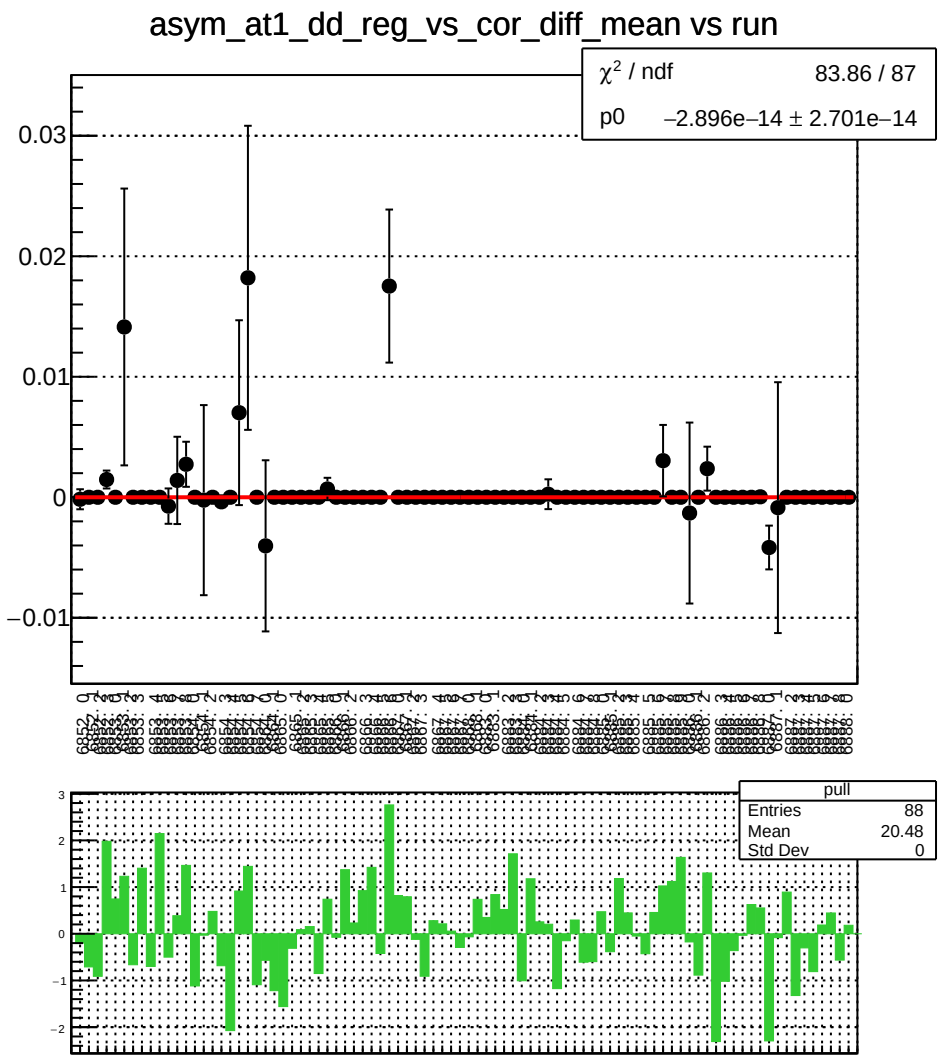

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.6 / 87
p0 1351 ± 574.7
pull
Entries 88
Mean 640.1
Std Dev 0
pull1D
Entries 88
Mean −0.005364
Std Dev 0.9268

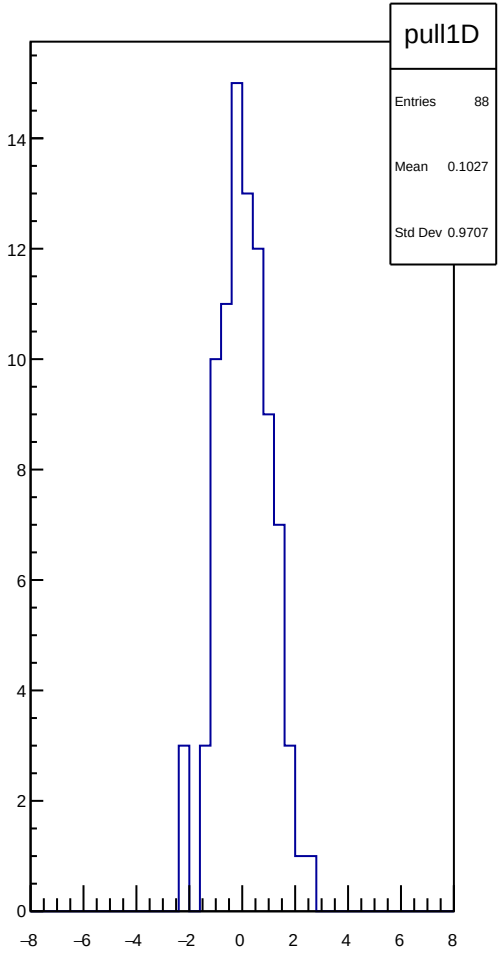

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.553e+04 / 87
p0 524.4 ± 0.4064
700
650
600
550
500
450

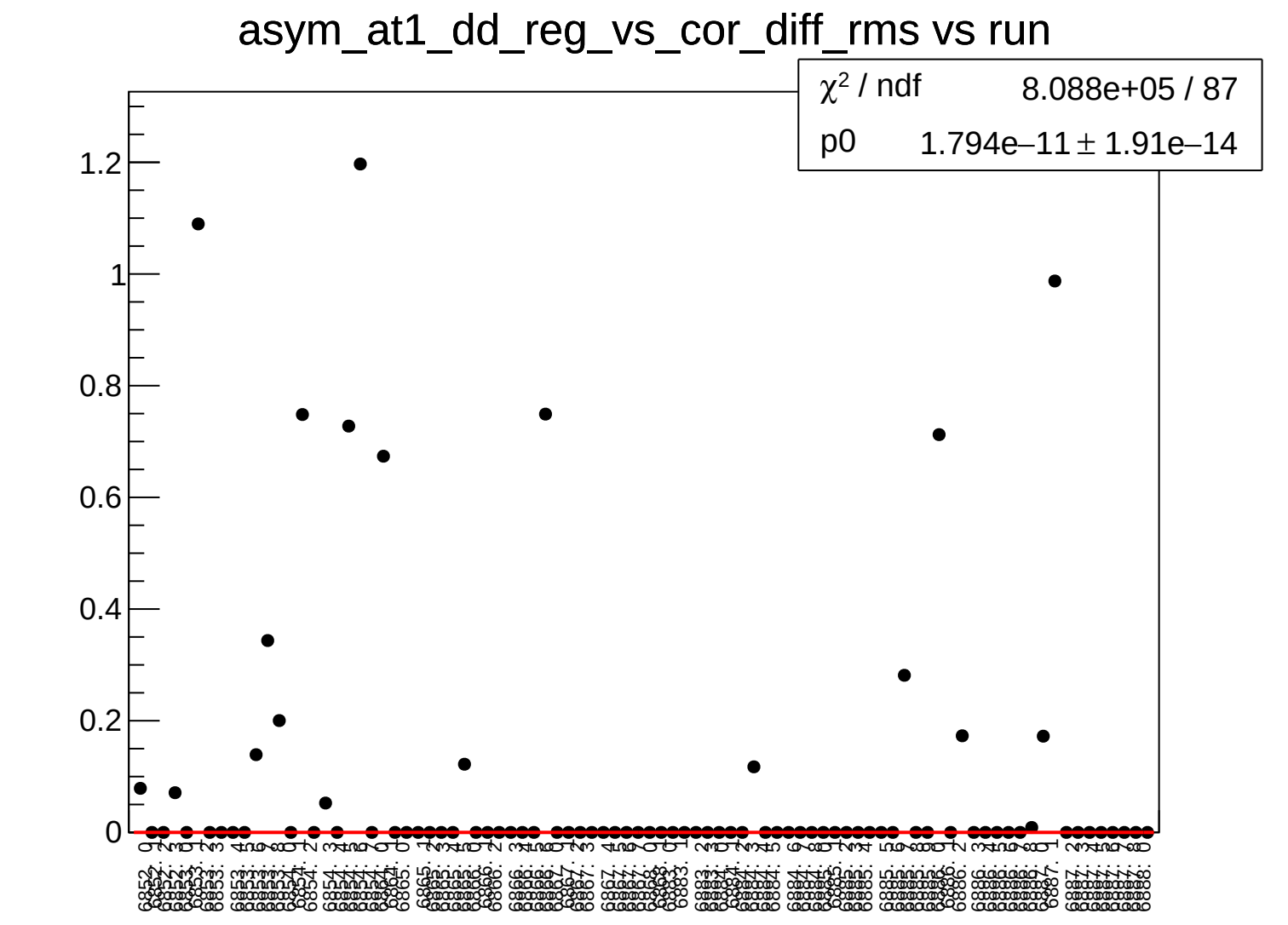

asym_at1_dd_mean vs run
χ² / ndf 78.36 / 87
p0 1031 ± 2060
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 19.33
Std Dev 0
3
2
1
0
−1
−2

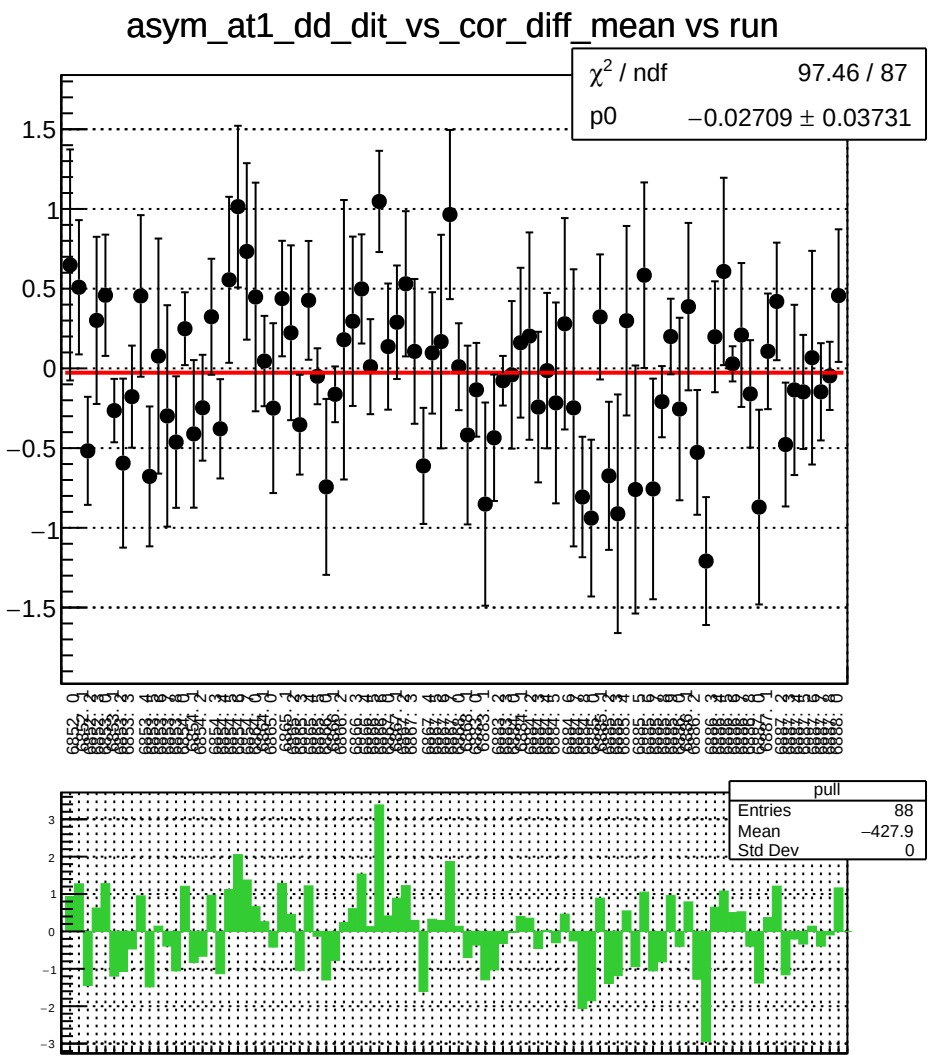

pull1D
Entries 88
Mean 0.01828
Std Dev 0.9435
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

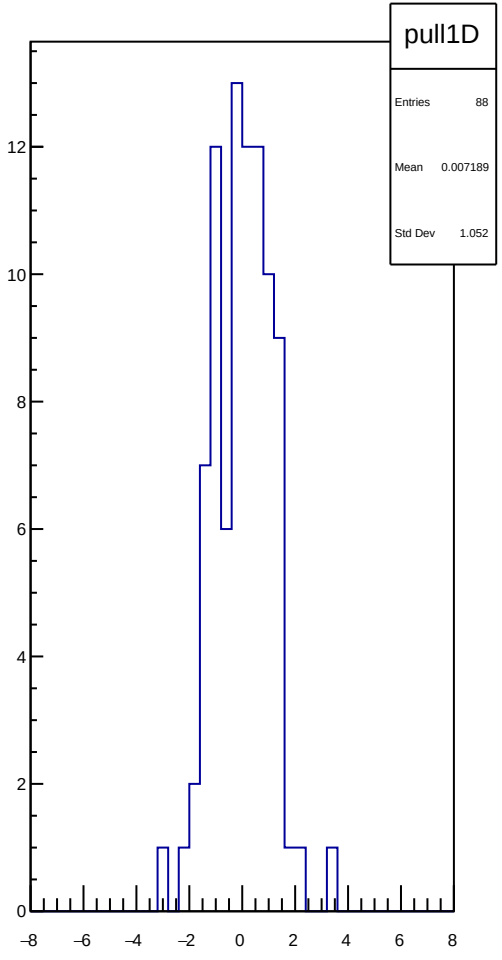

asym_at1_dd_rms vs run
χ^2 / ndf 367.2 / 87
p0 1894 ± 1.456
2050
2000
1950
1900
1850

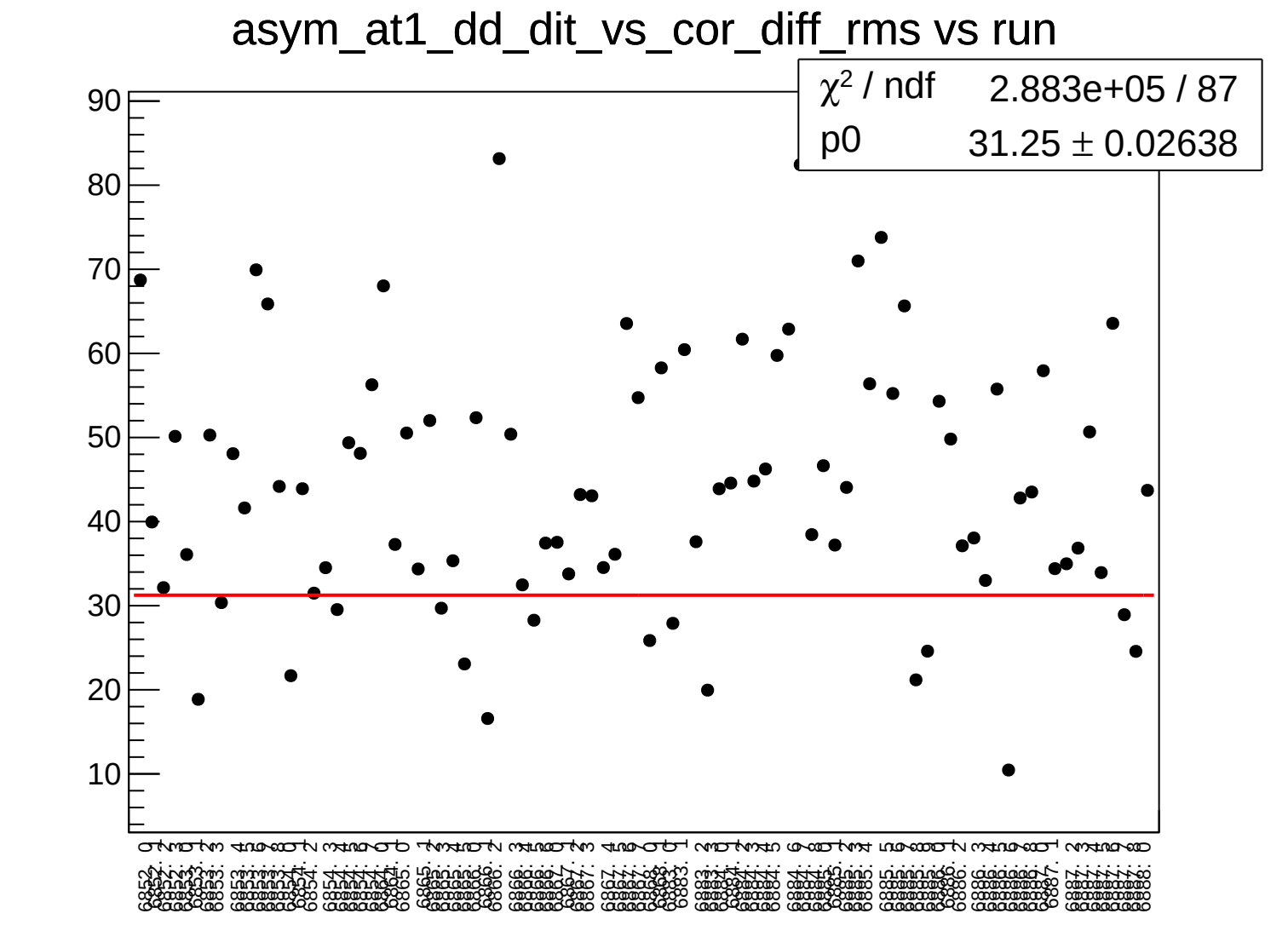

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.86 / 87
p0 −2.896e−14 ± 2.701e−14
0.03
0.02
0.01
0
−0.01
pull
Entries 88
Mean 20.48
Std Dev 0

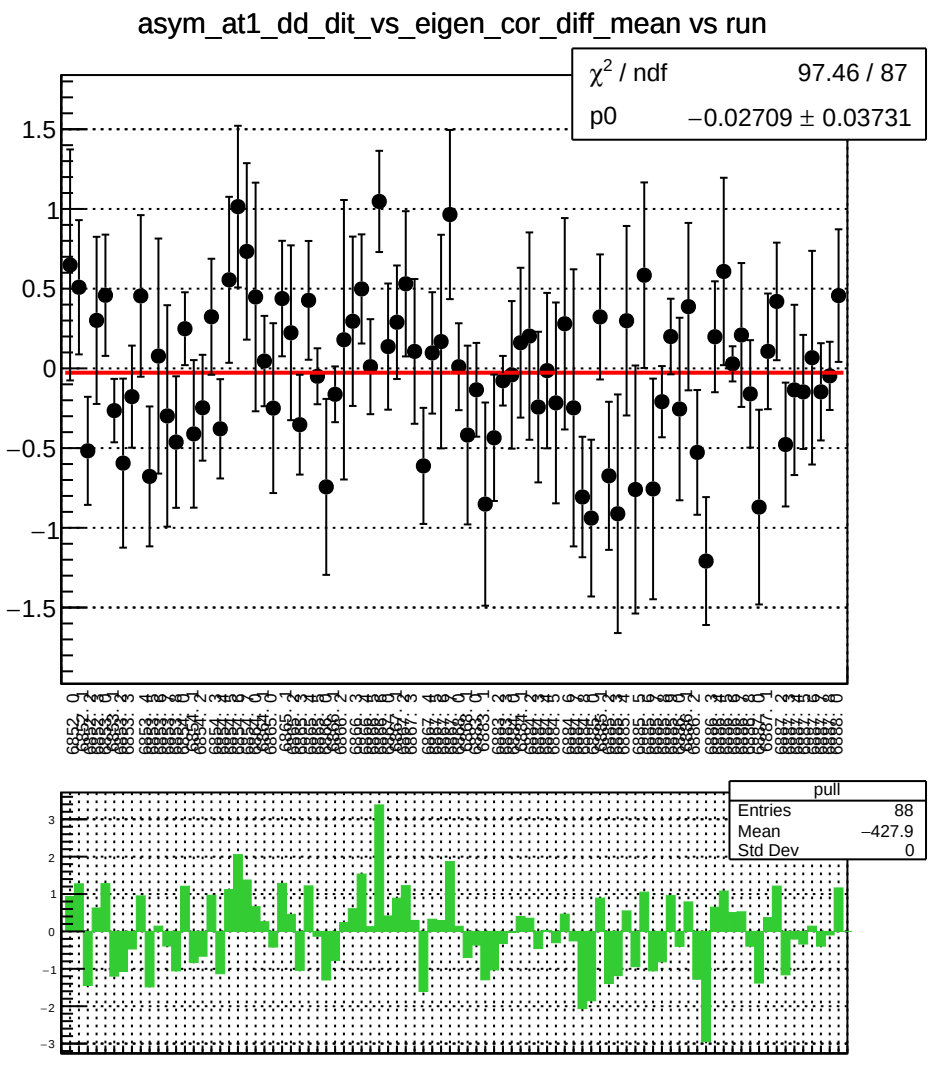

pull1D
Entries 88
Mean 0.1027
Std Dev 0.9707
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

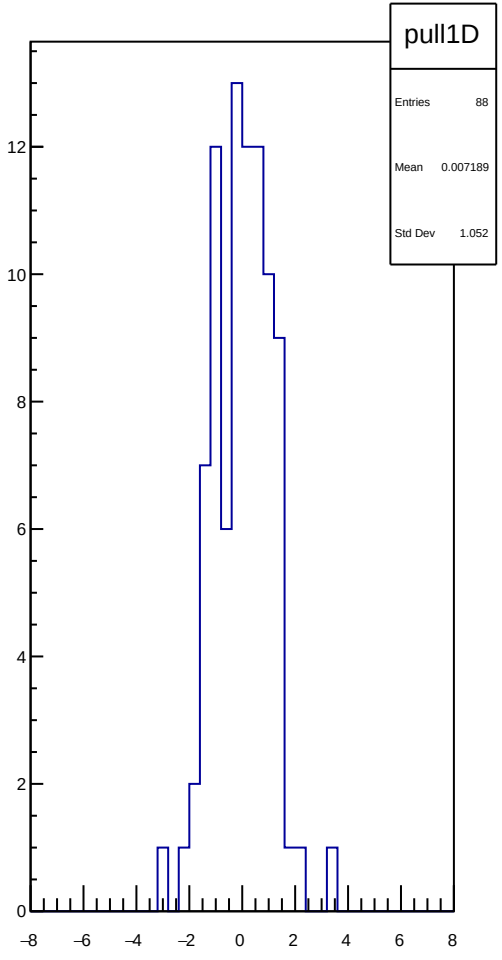

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.088e+05 / 87
p0 1.794e−11 ± 1.91e−14
1.2
1
0.8
0.6
0.4
0.2
0

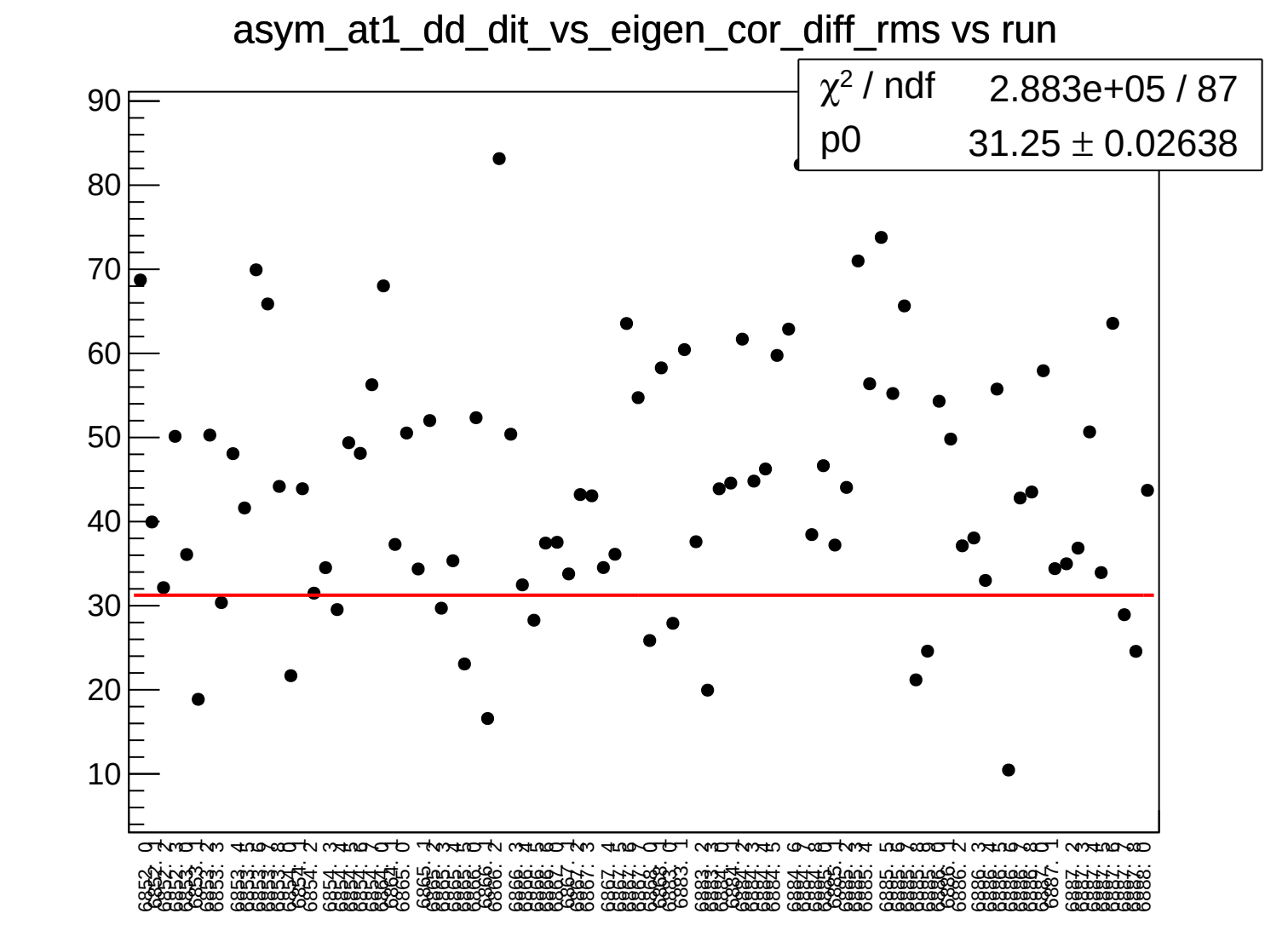

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.46 / 87
p0 −0.02709 ± 0.03731
pull
Entries 88
Mean −427.9
Std Dev 0

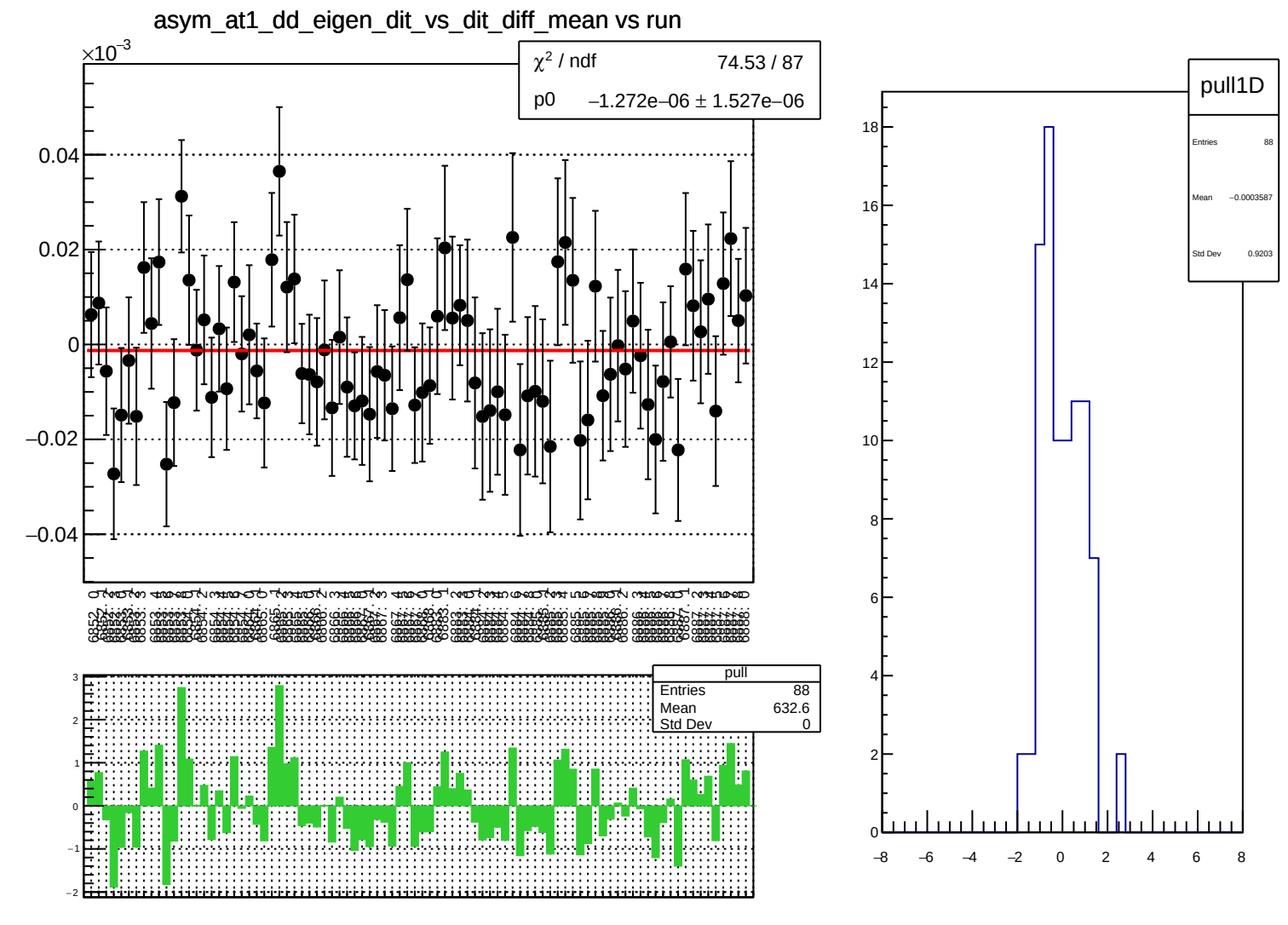

pull1D
Entries 88
Mean 0.007189
Std Dev 1.052

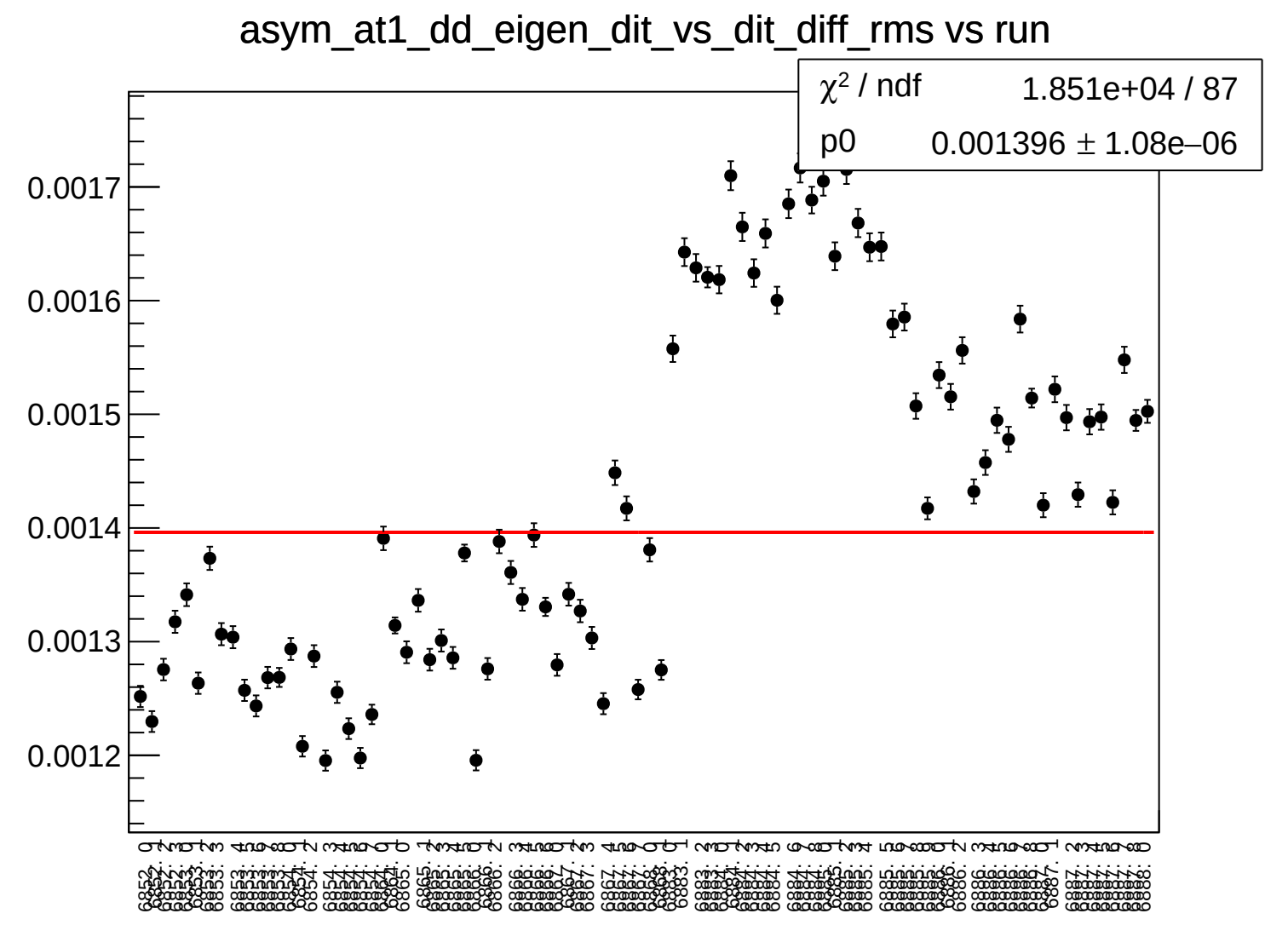

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.883e+05 / 87
p0 31.25 ± 0.02638
90
80
70
60
50
40
30
20
10

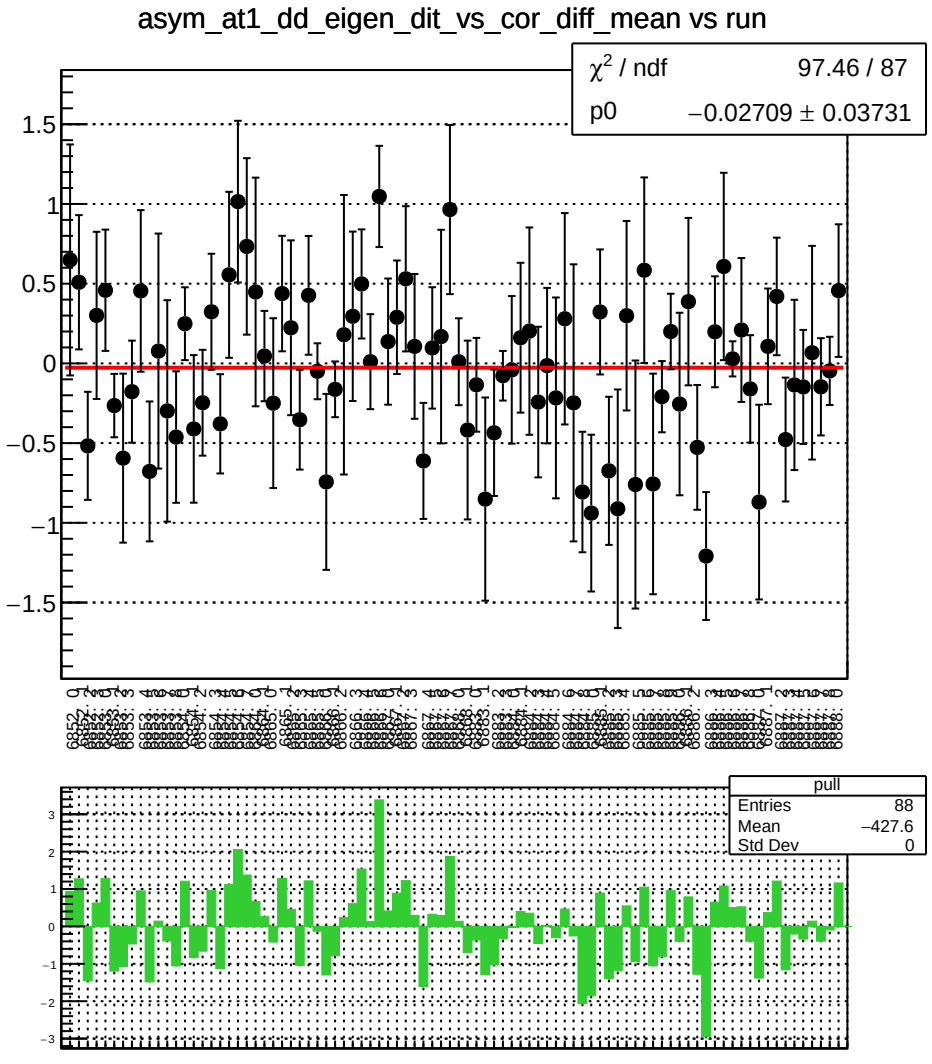

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.46 / 87
p0 −0.02709 ± 0.03731
pull
Entries 88
Mean −427.9
Std Dev 0

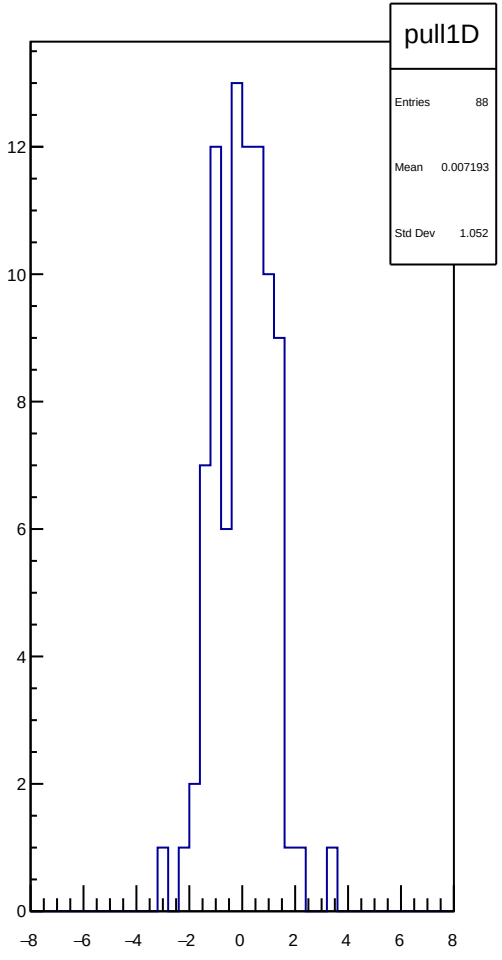

pull1D
Entries 88
Mean 0.007189
Std Dev 1.052

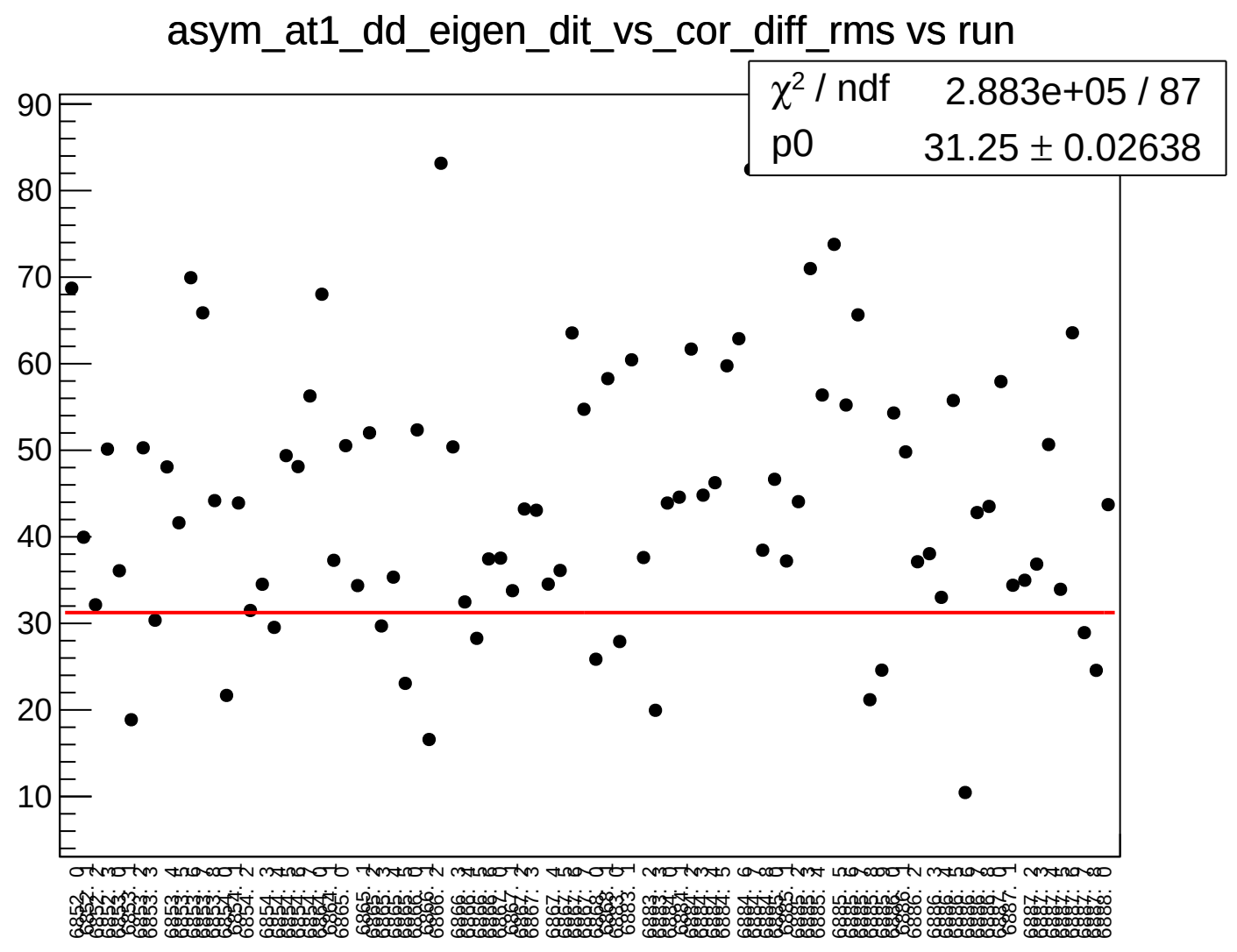

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.883e+05 / 87
p0 31.25 ± 0.02638
90
80
70
60
50
40
30
20
10

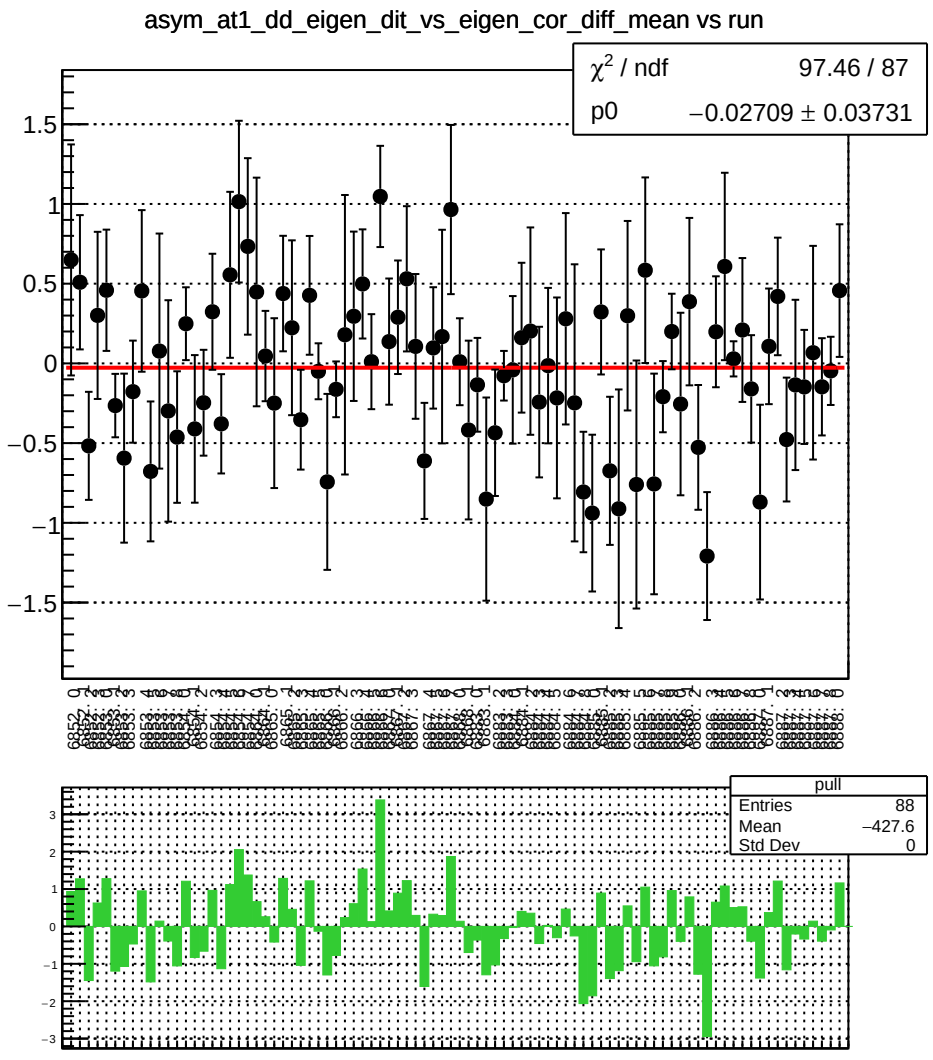

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.53 / 87
p0 −1.272e−06 ± 1.527e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 88
Mean 632.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0003587
Std Dev 0.9203
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

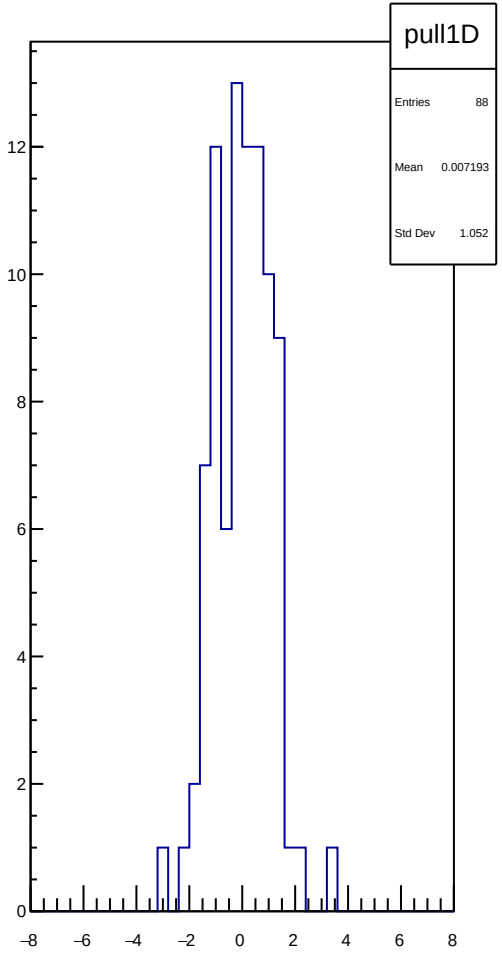

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.851e+04 / 87
p0 0.001396 ± 1.08e–06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

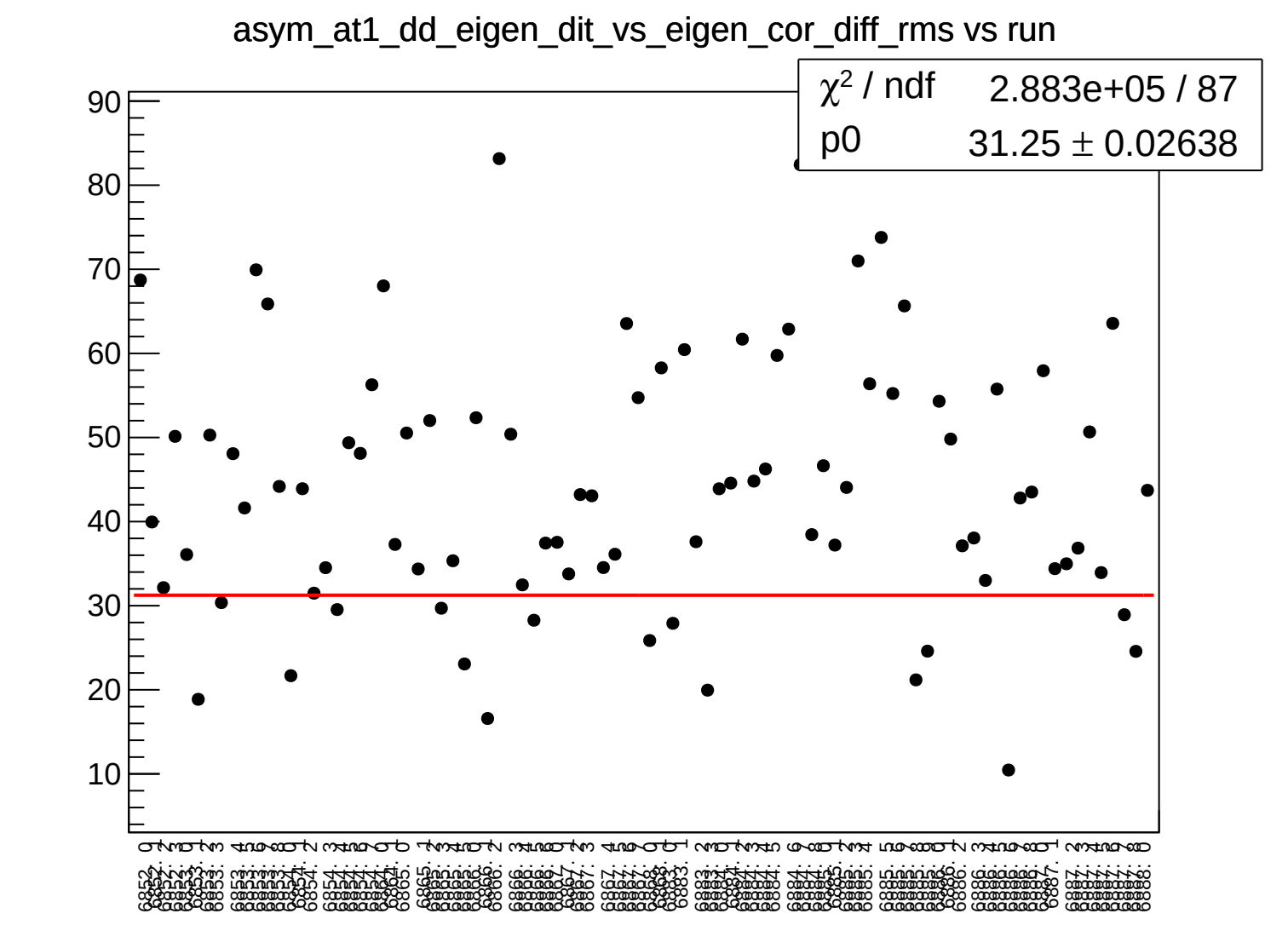

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.46 / 87
p0 −0.02709 ± 0.03731
pull
Entries 88
Mean −427.6
Std Dev 0

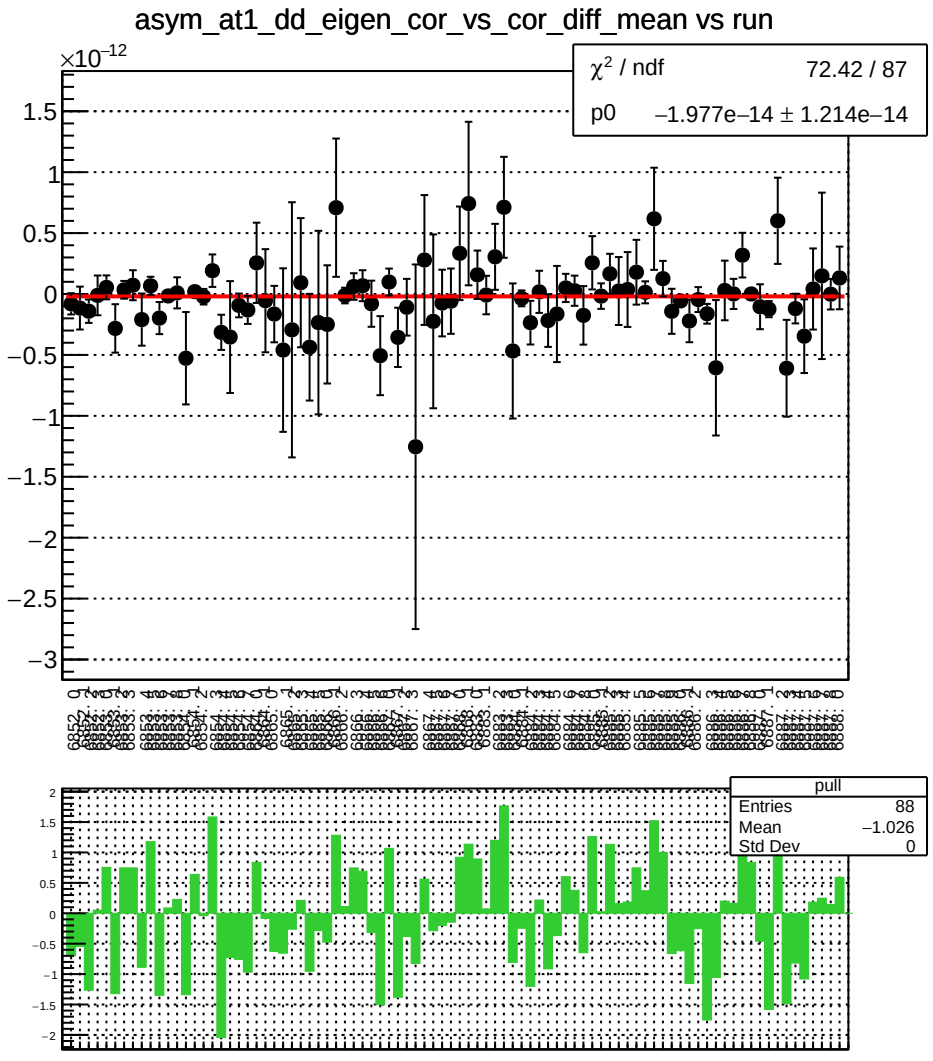

pull1D
Entries 88
Mean 0.007193
Std Dev 1.052

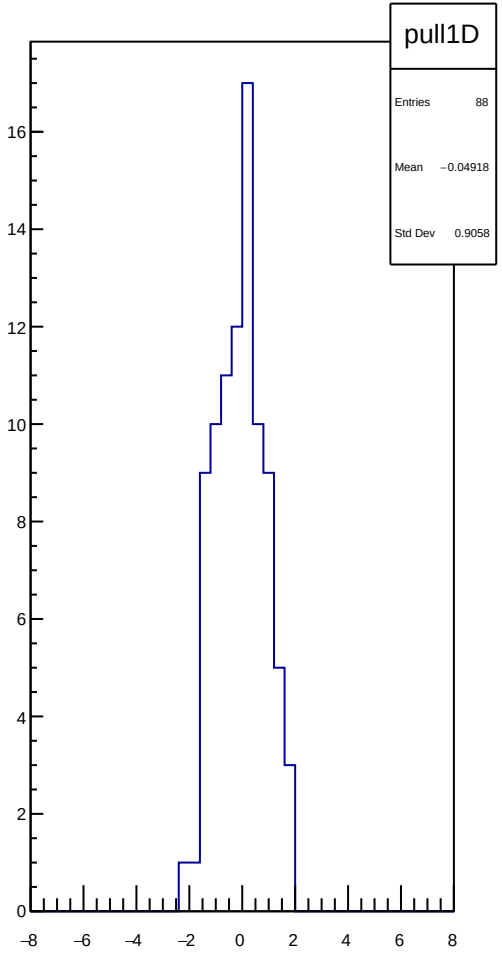

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.883e+05 / 87
p0 31.25 ± 0.02638
90
80
70
60
50
40
30
20
10

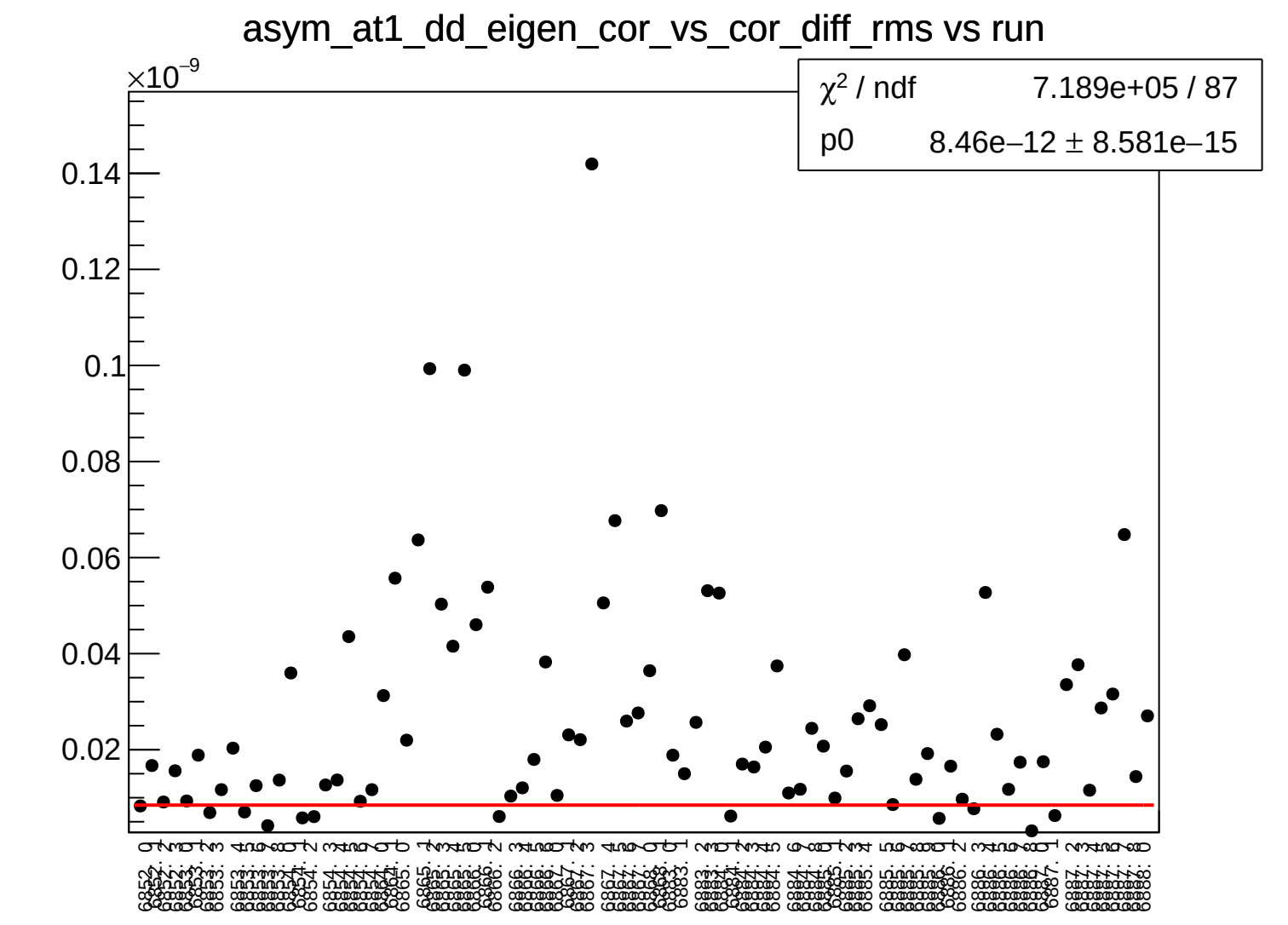

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.46 / 87
p0 −0.02709 ± 0.03731
pull
Entries 88
Mean −427.6
Std Dev 0

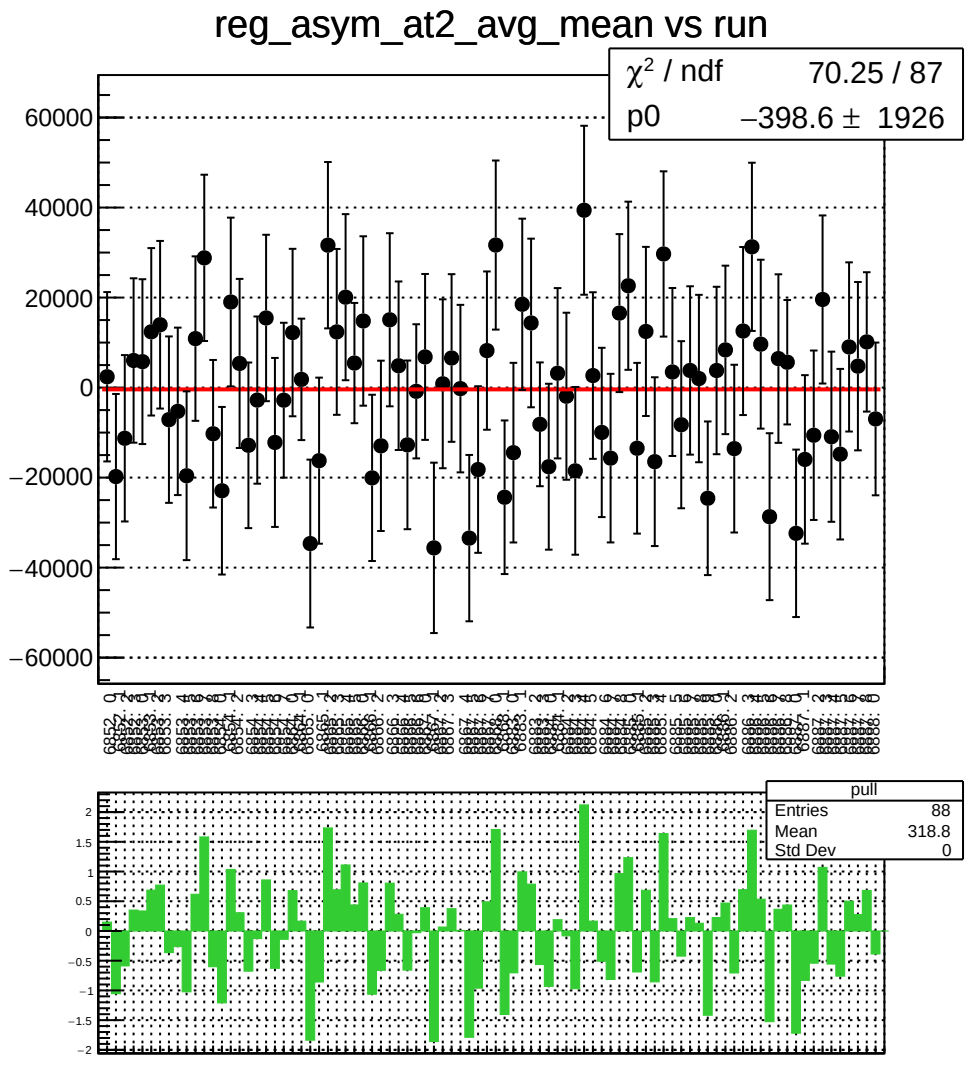

pull1D
Entries 88
Mean 0.007193
Std Dev 1.052

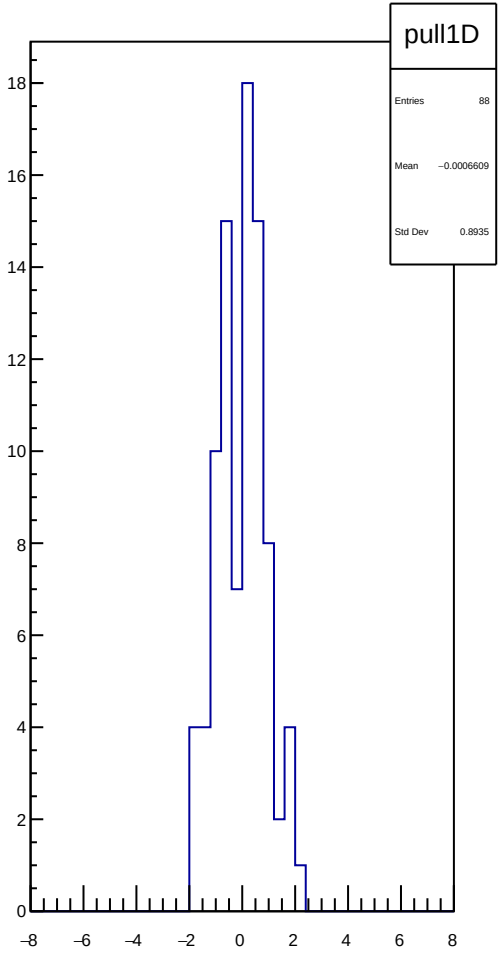

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.883e+05 / 87
p0 31.25 ± 0.02638
90
80
70
60
50
40
30
20
10

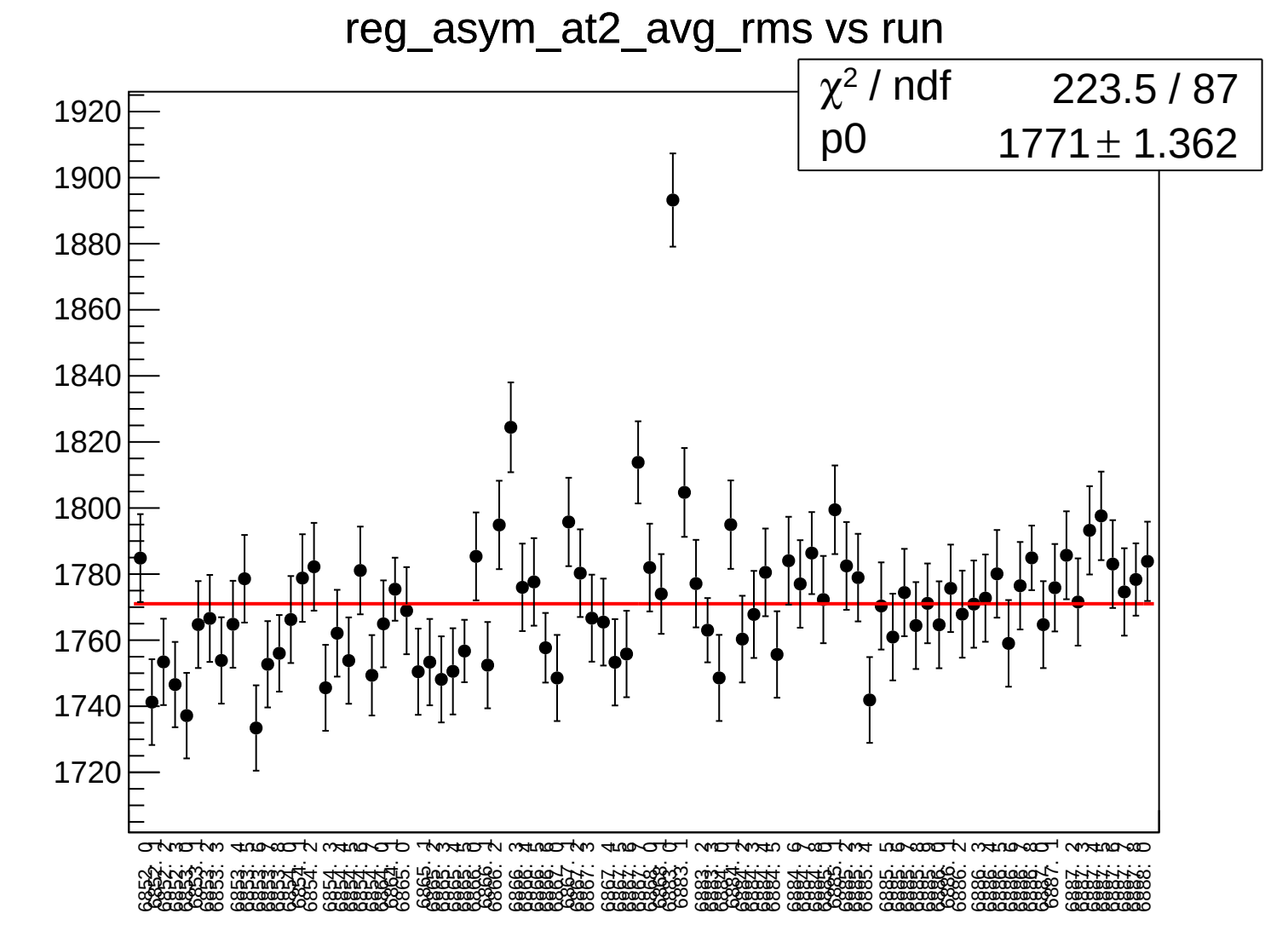

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.42 / 87
p0 −1.977e−14 ± 1.214e−14
pull
Entries 88
Mean −1.026
Std Dev 0

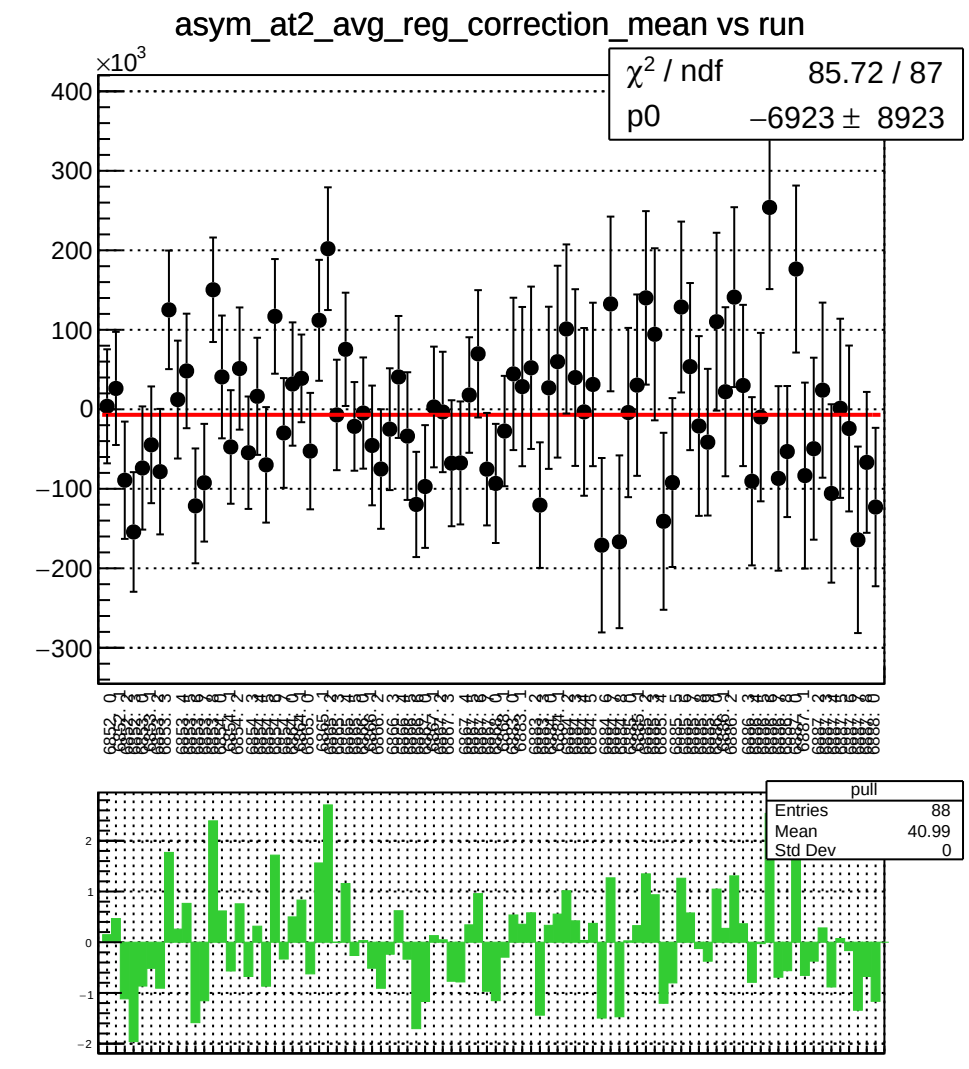

pull1D
Entries 88
Mean −0.04918
Std Dev 0.9058

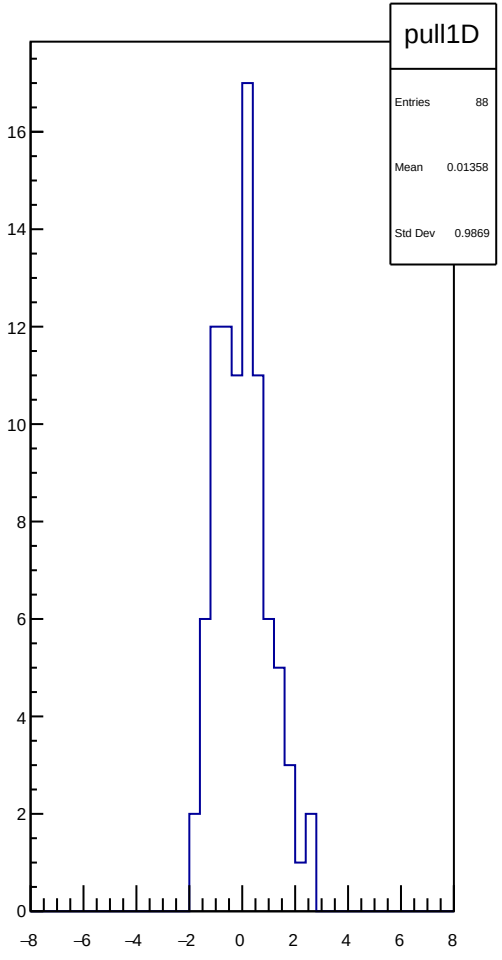

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.189e+05 / 87
p0 8.46e−12 ± 8.581e−15
0.14
0.12
0.1
0.08
0.06
0.04
0.02

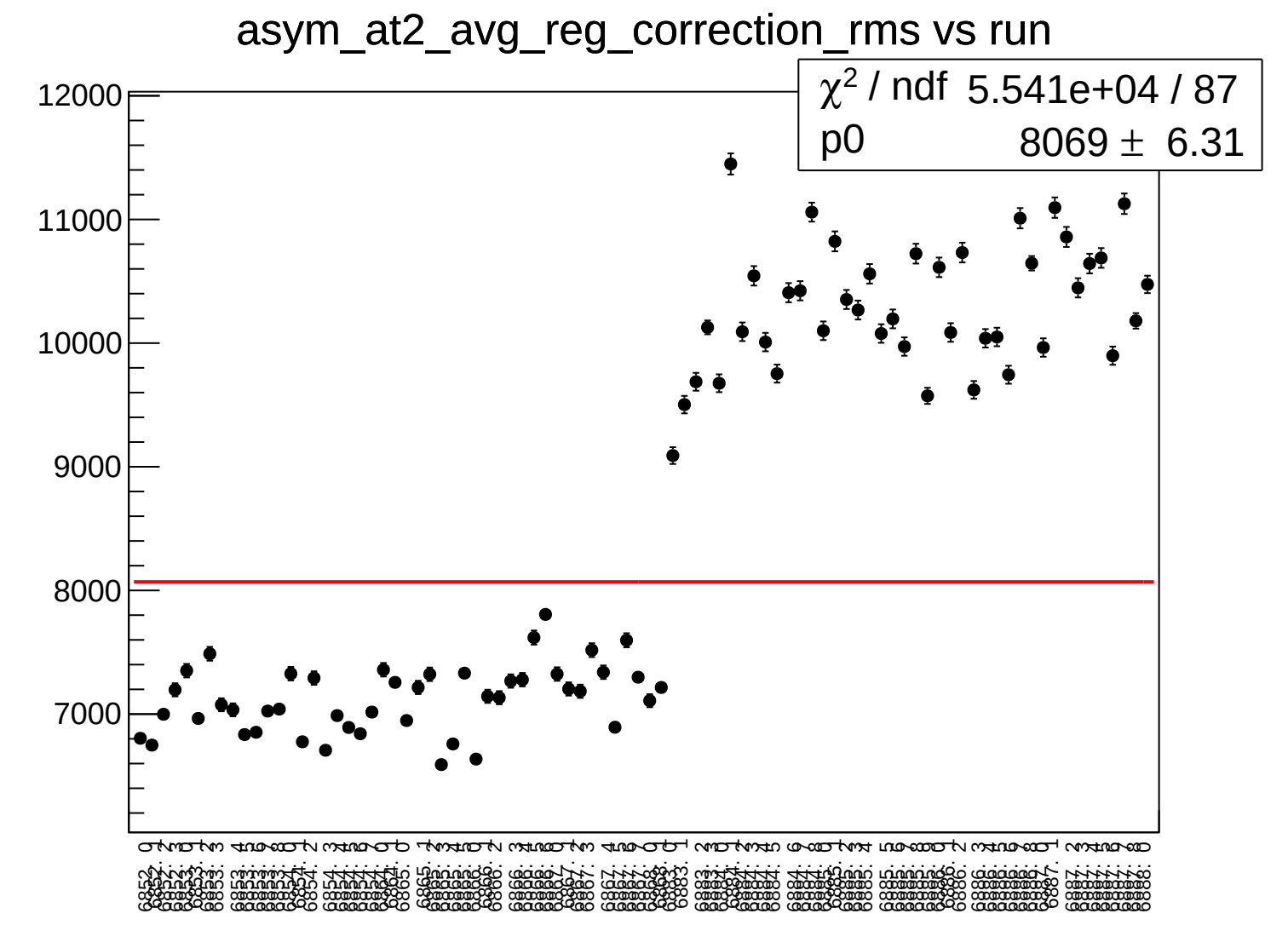

reg_asym_at2_avg_mean vs run
χ² / ndf 70.25 / 87
p0 −398.6 ± 1926
pull
Entries 88
Mean 318.8
Std Dev 0

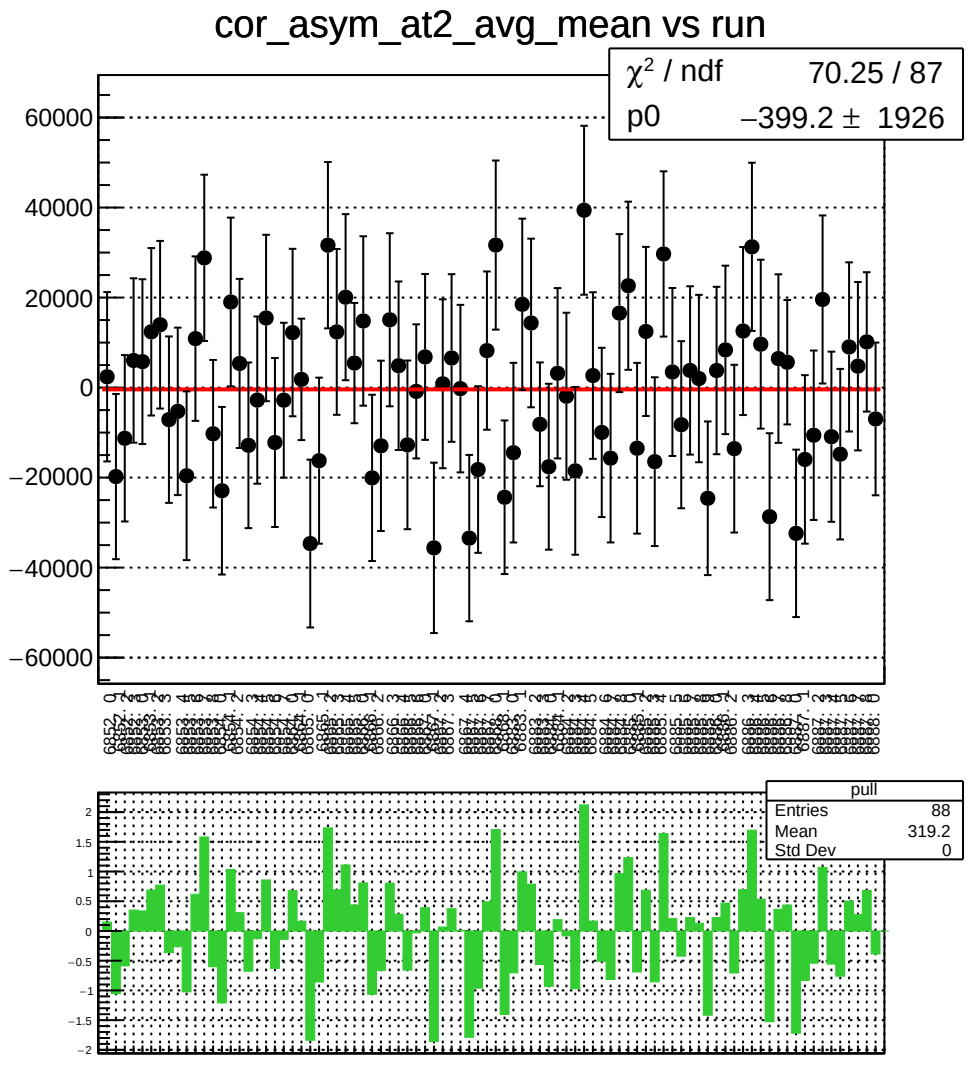

pull1D
Entries 88
Mean −0.0006609
Std Dev 0.8935

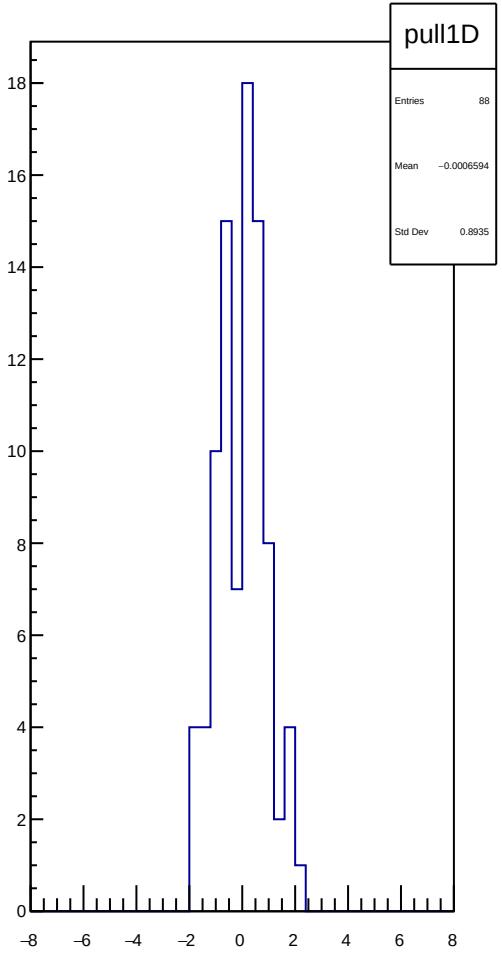

reg_asym_at2_avg_rms vs run
χ² / ndf 223.5 / 87
p0 1771 ± 1.362
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

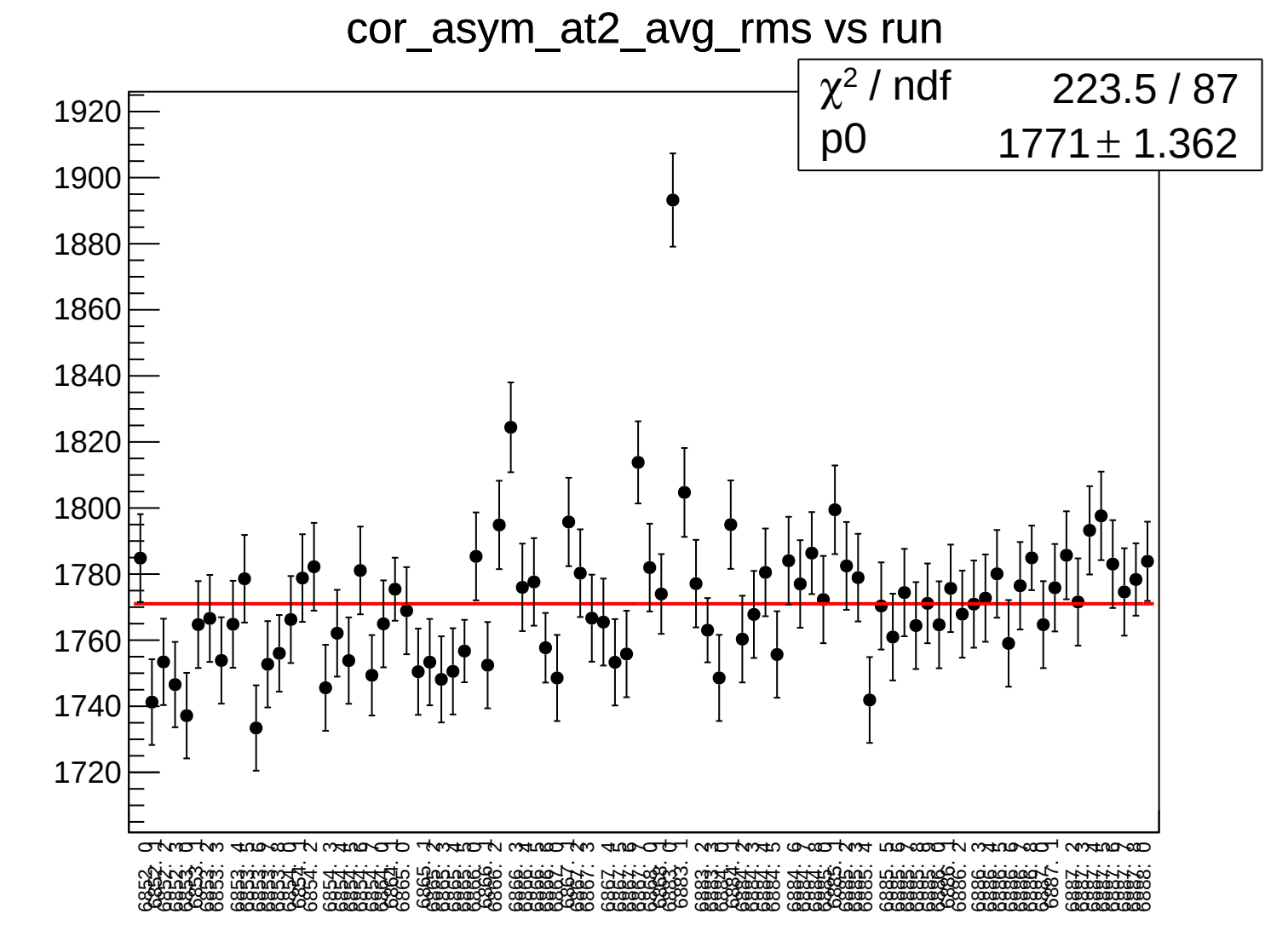

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.72 / 87
p0 −6923 ± 8923
pull
Entries 88
Mean 40.99
Std Dev 0

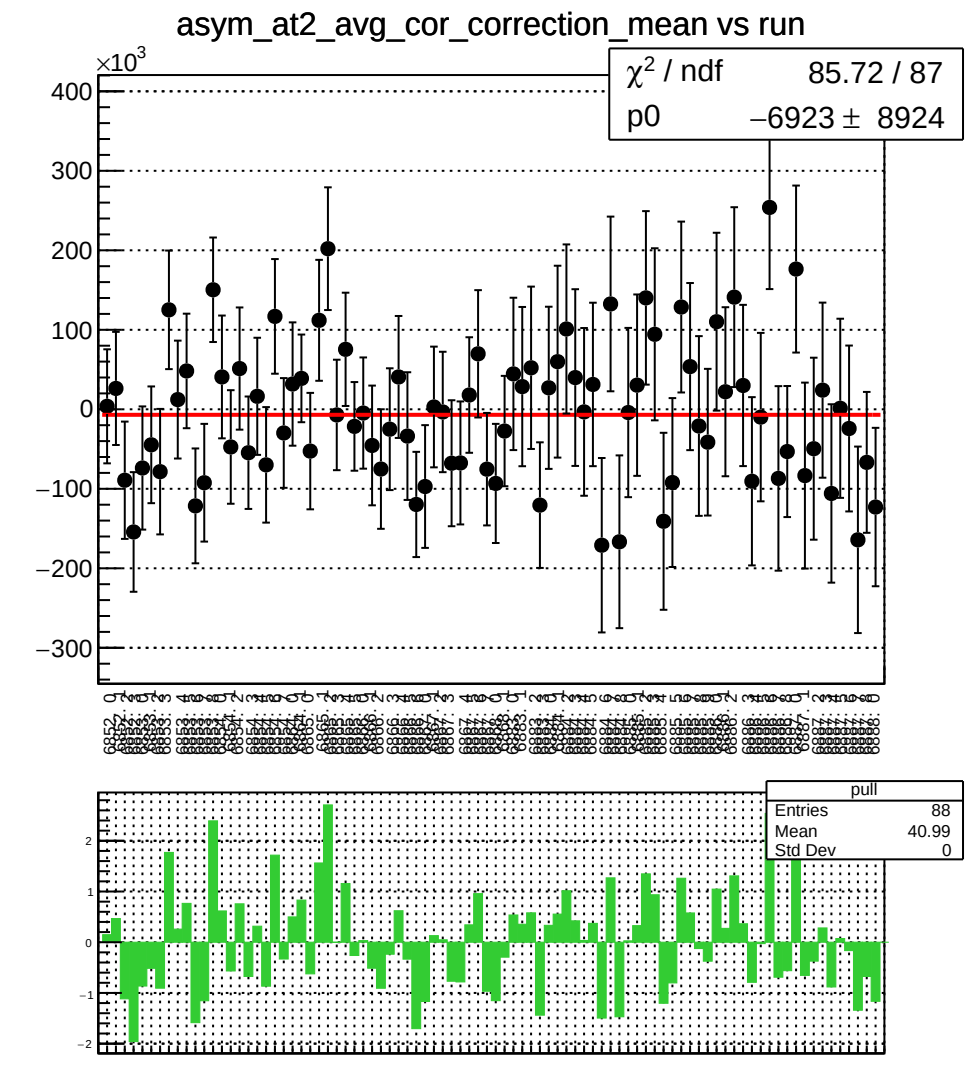

pull1D
Entries 88
Mean 0.01358
Std Dev 0.9869

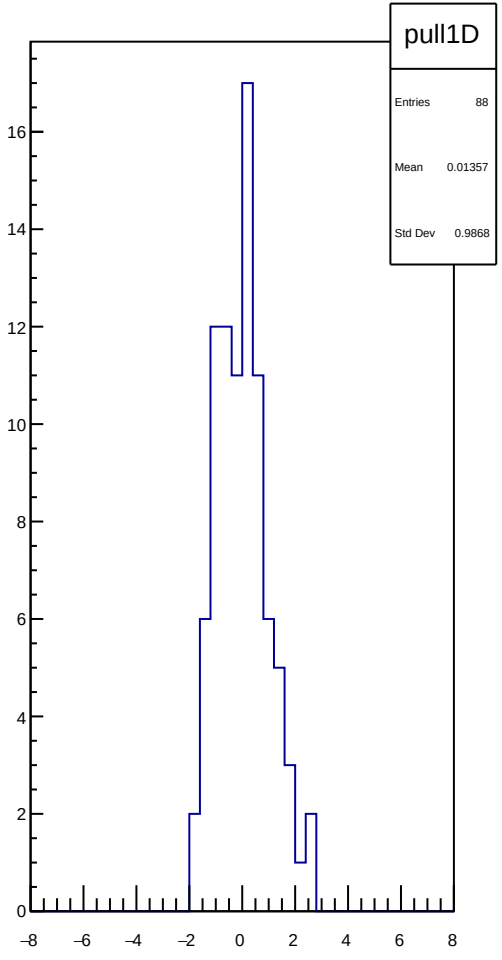

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 5.541e+04 / 87
p0 8069 ± 6.31
12000
11000
10000
9000
8000
7000

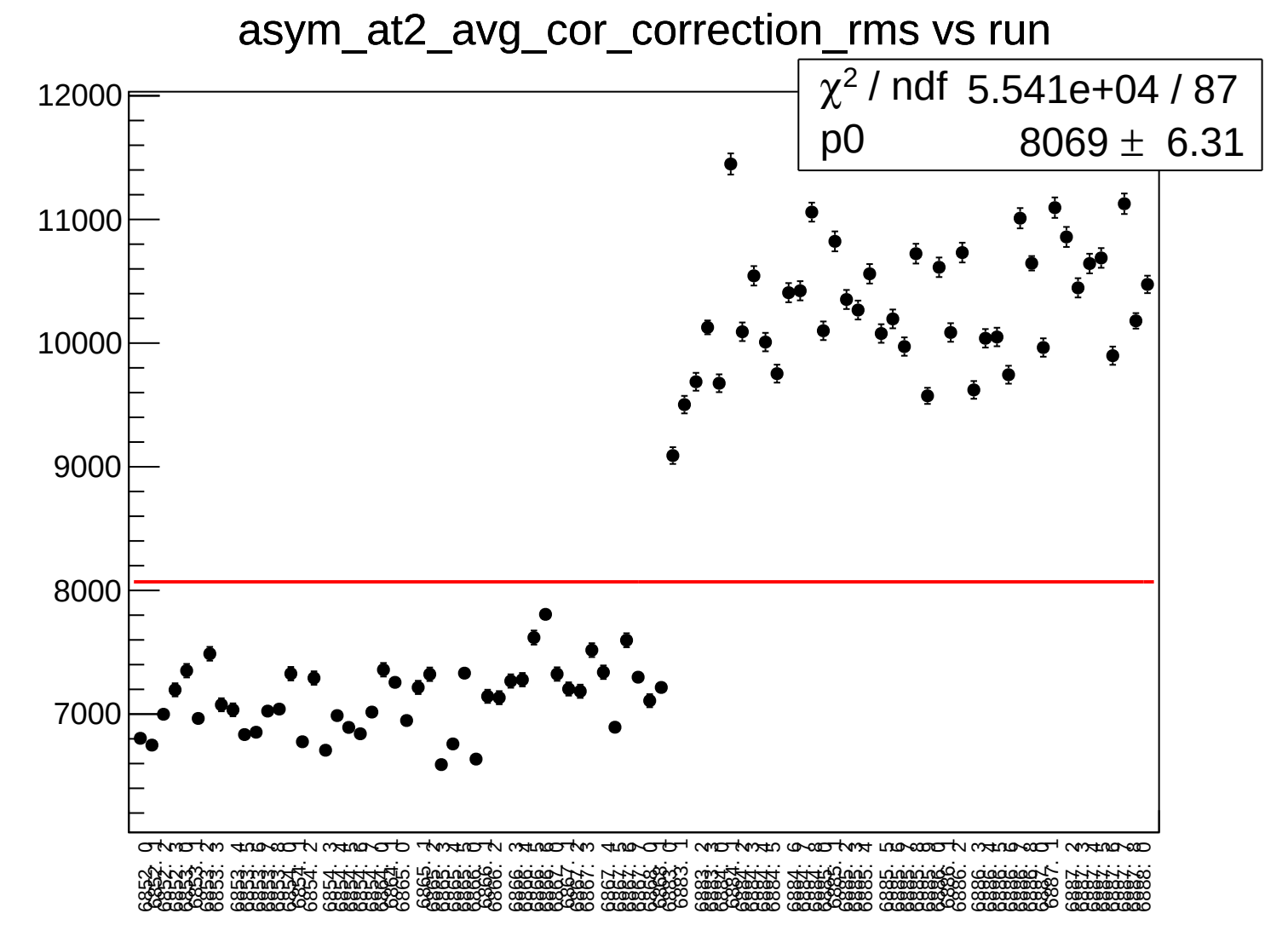

cor_asym_at2_avg_mean vs run
χ² / ndf 70.25 / 87
p0 −399.2 ± 1926
pull
Entries 88
Mean 319.2
Std Dev 0

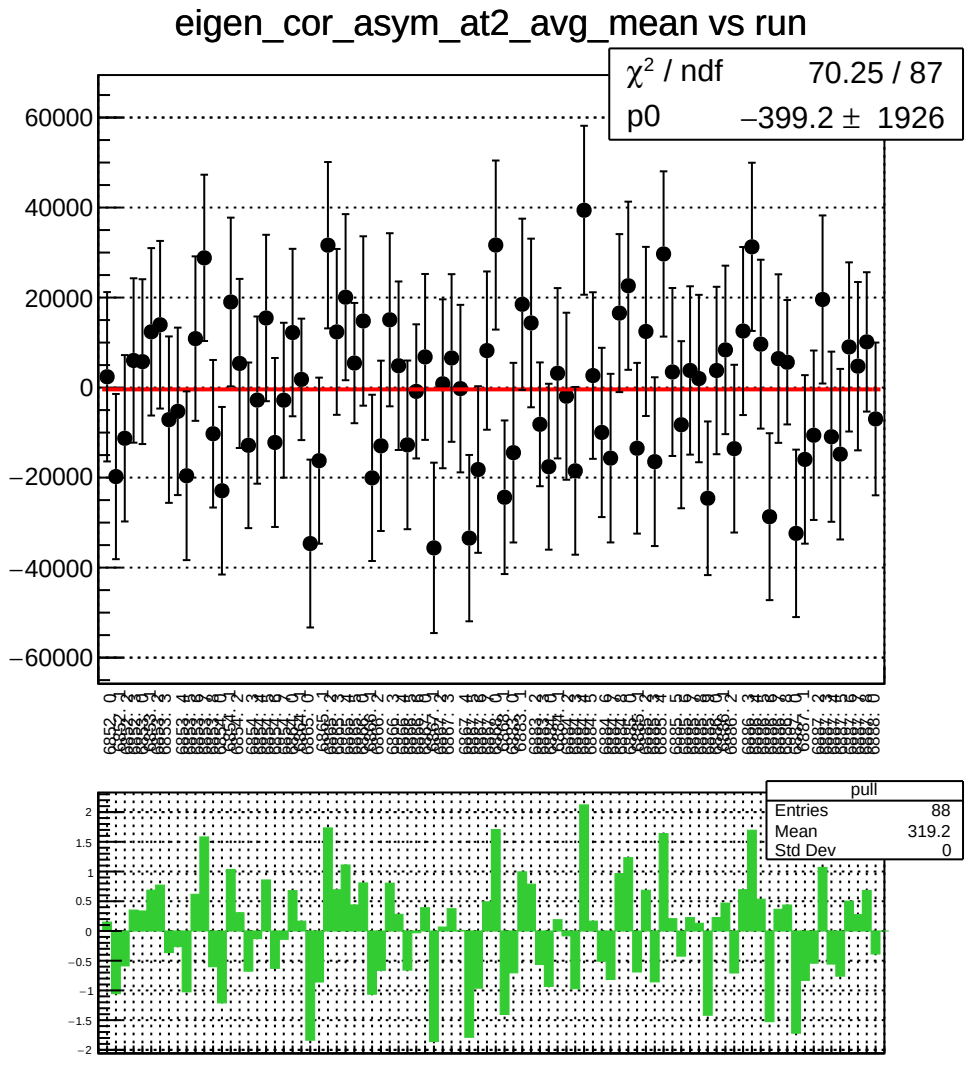

pull1D
Entries 88
Mean −0.0006594
Std Dev 0.8935

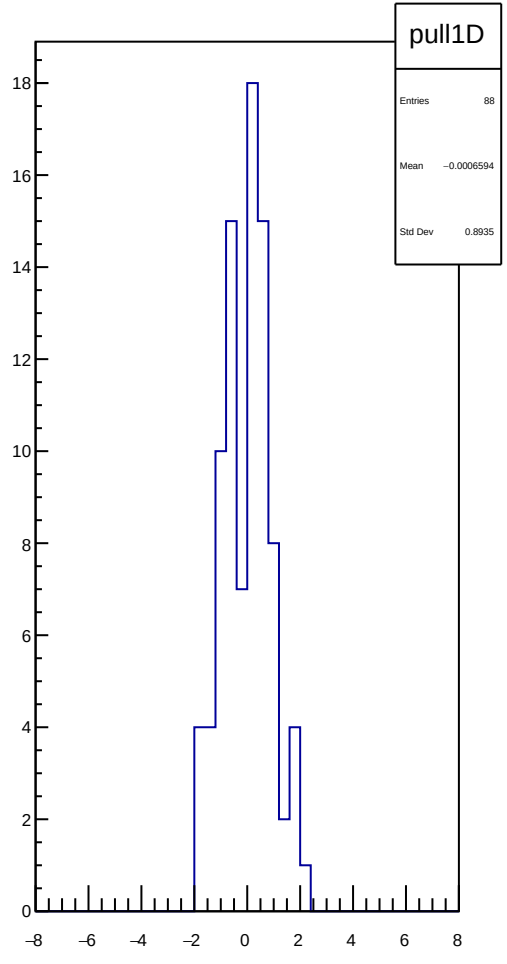

cor_asym_at2_avg_rms vs run
χ² / ndf 223.5 / 87
p0 1771 ± 1.362
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

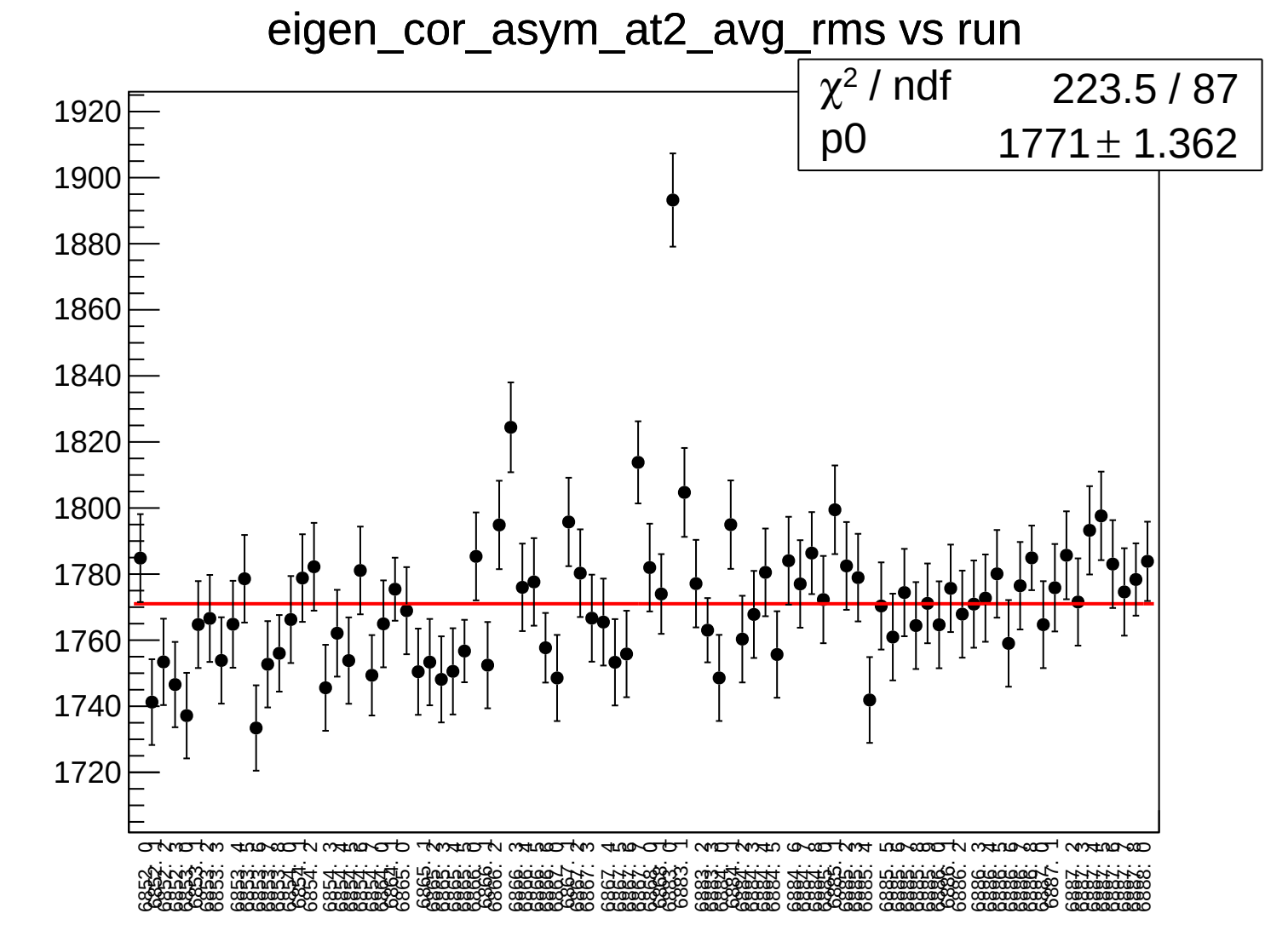

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.72 / 87
p0 −6923 ± 8924
pull
Entries 88
Mean 40.99
Std Dev 0

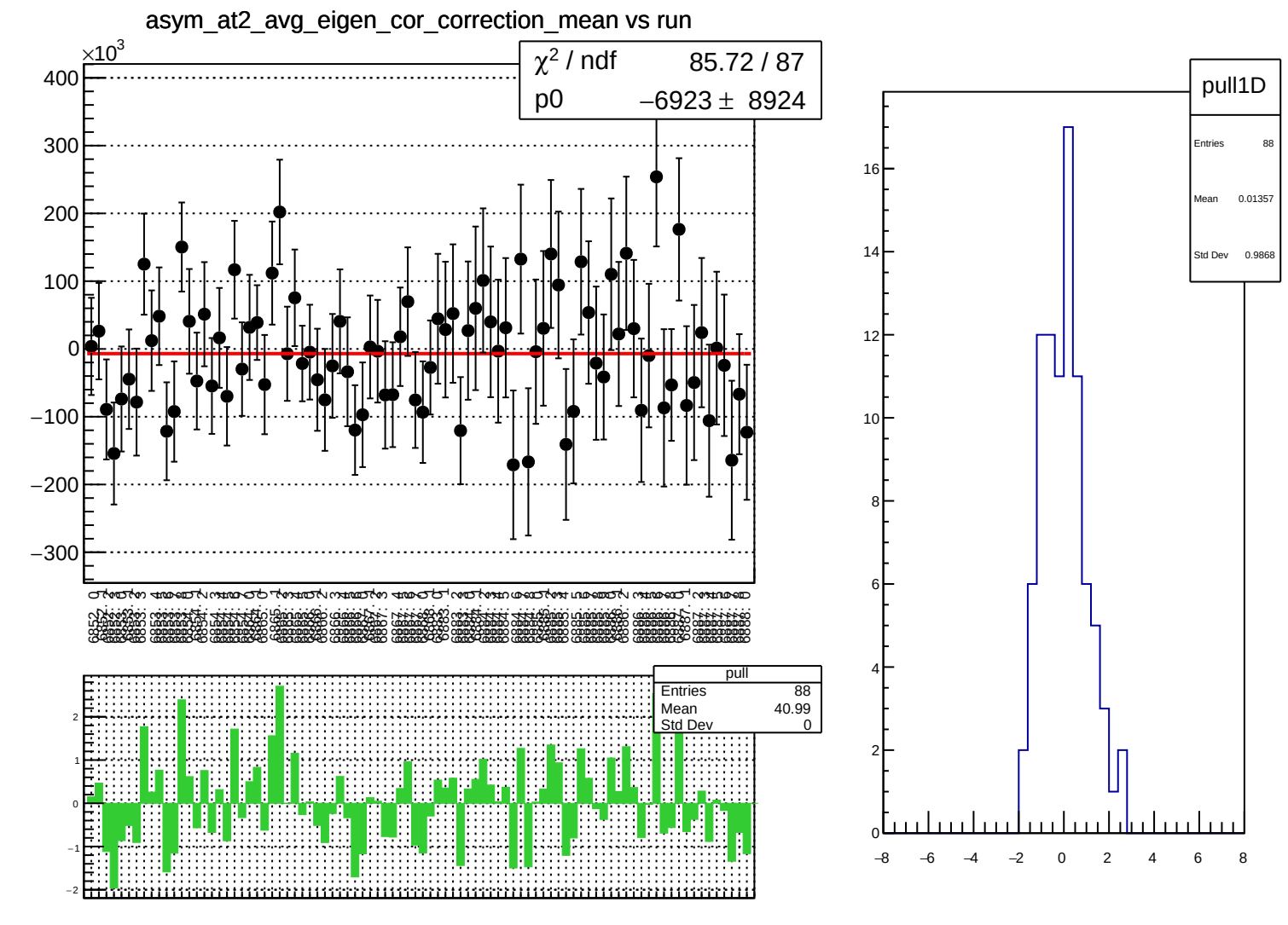

pull1D
Entries 88
Mean 0.01357
Std Dev 0.9868

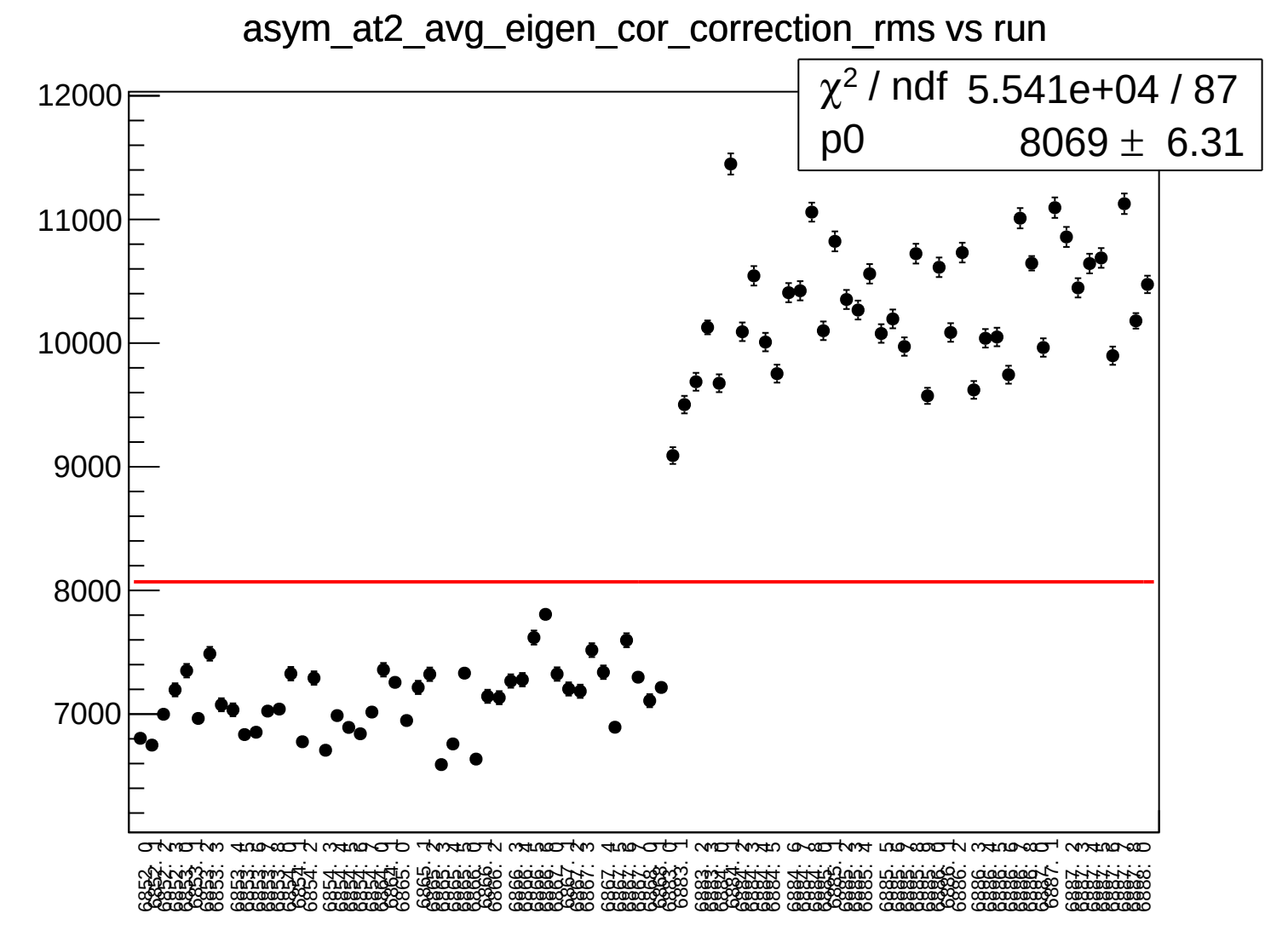

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 5.541e+04 / 87
p0 8069 ± 6.31
12000
11000
10000
9000
8000
7000

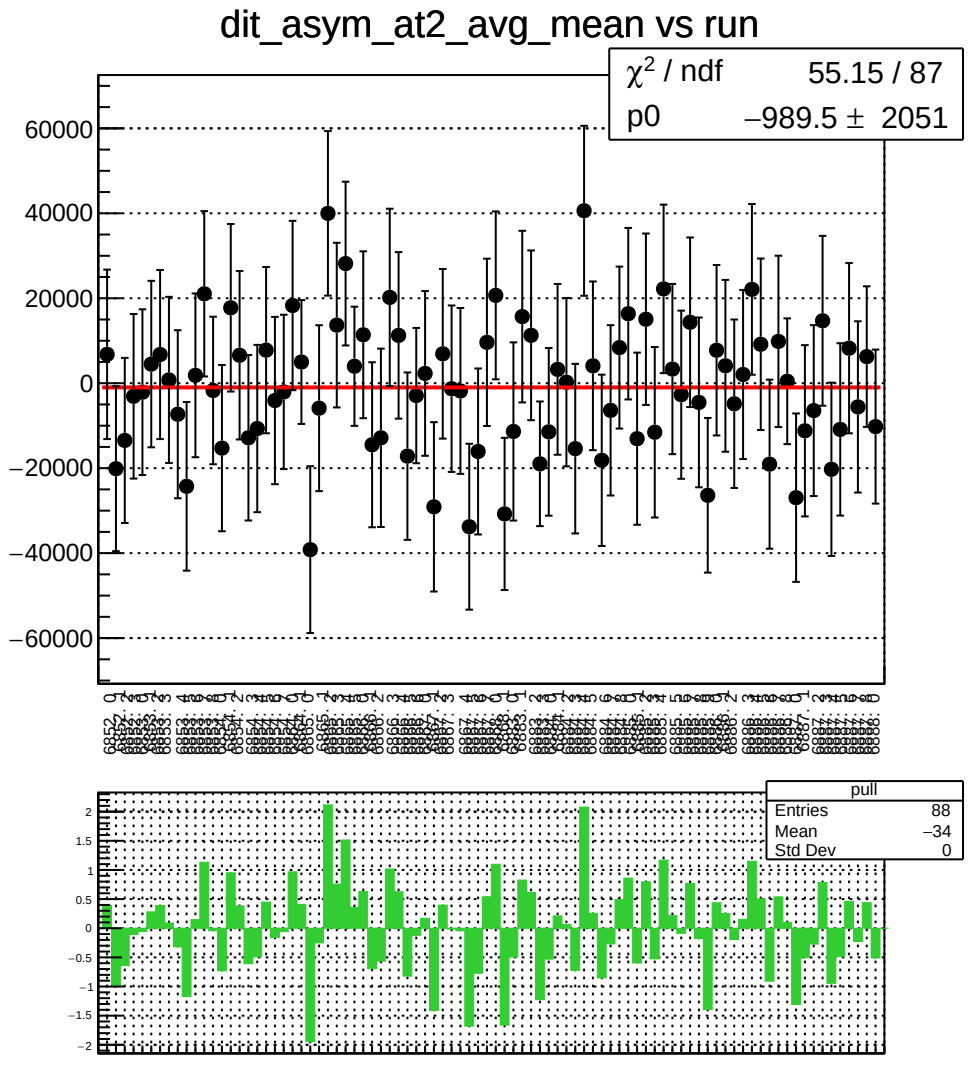

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 70.25 / 87
p0 −399.2 ± 1926
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 319.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

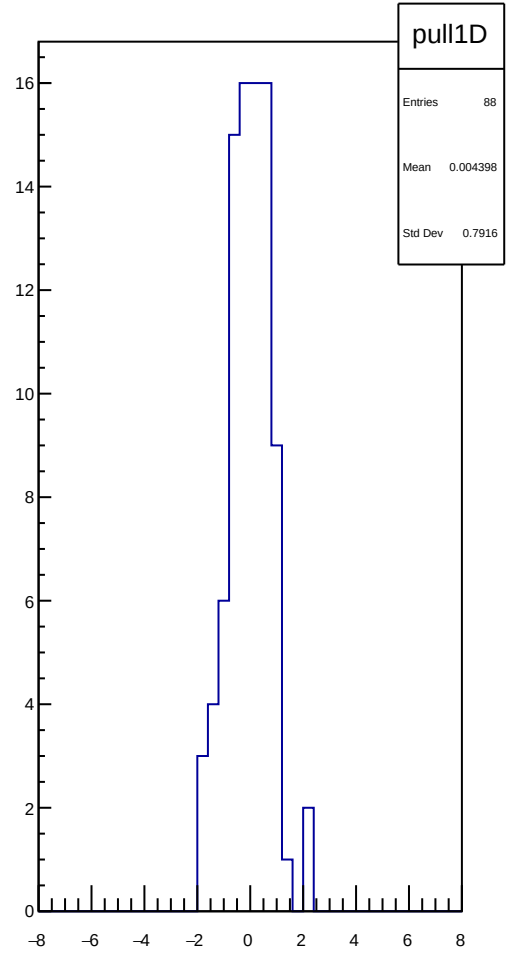

pull1D
Entries 88
Mean −0.0006594
Std Dev 0.8935
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

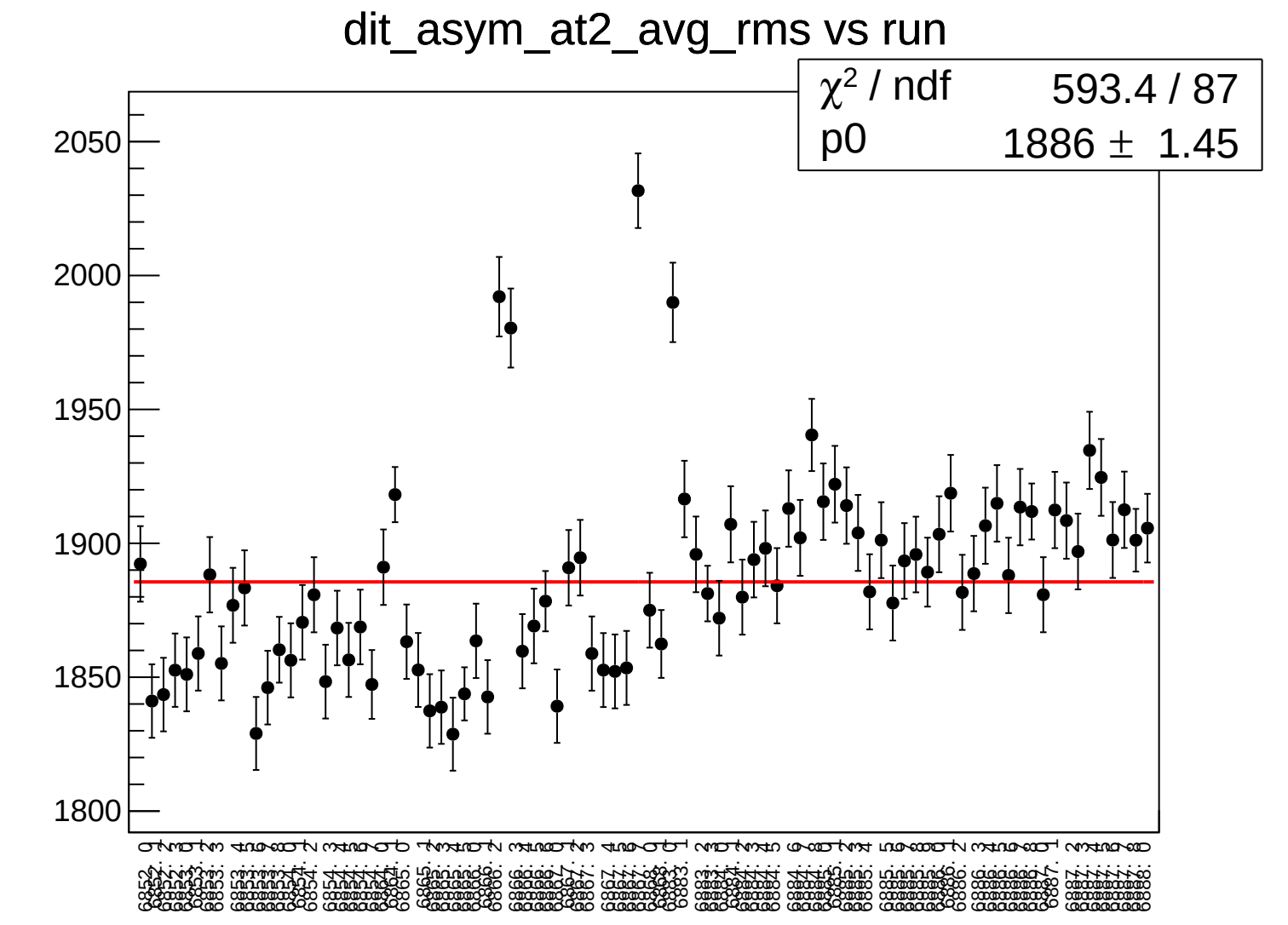

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 223.5 / 87
p0 1771 ± 1.362
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

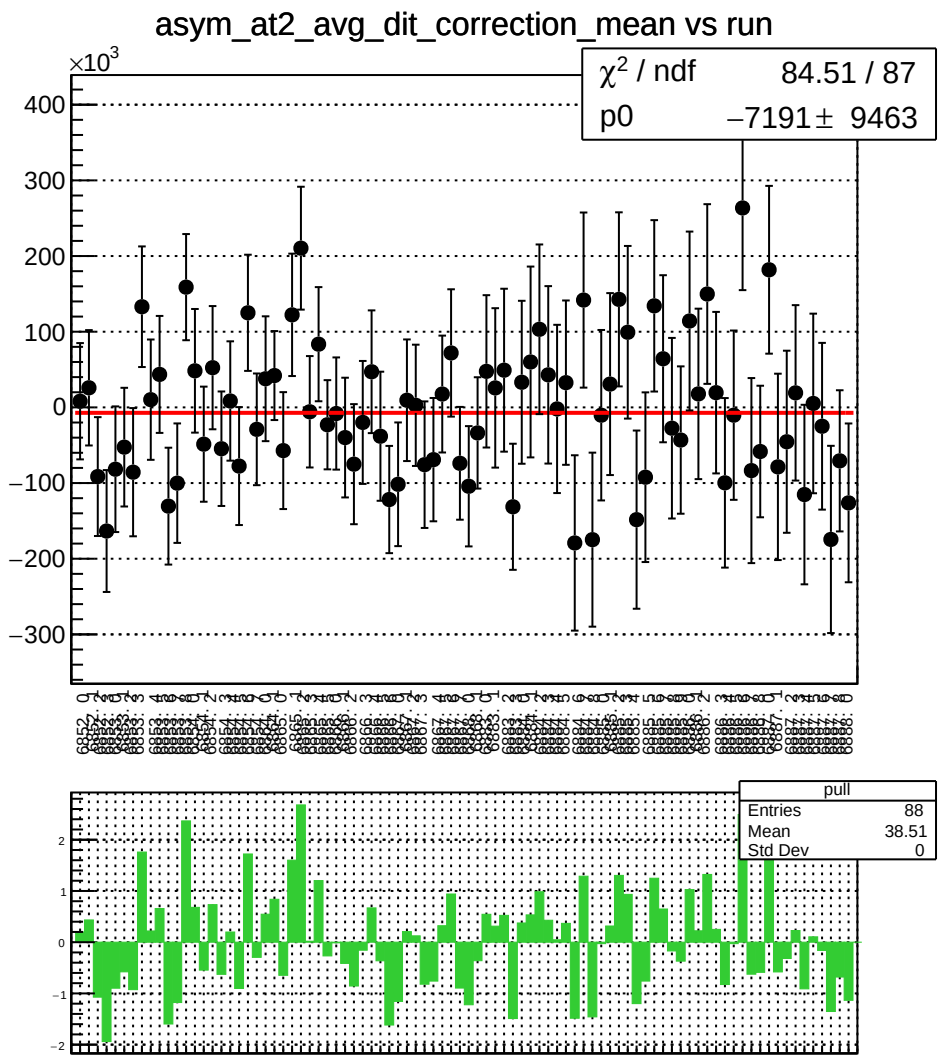

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.72 / 87
p0 −6923 ± 8924
pull
Entries 88
Mean 40.99
Std Dev 0
pull1D
Entries 88
Mean 0.01357
Std Dev 0.9868

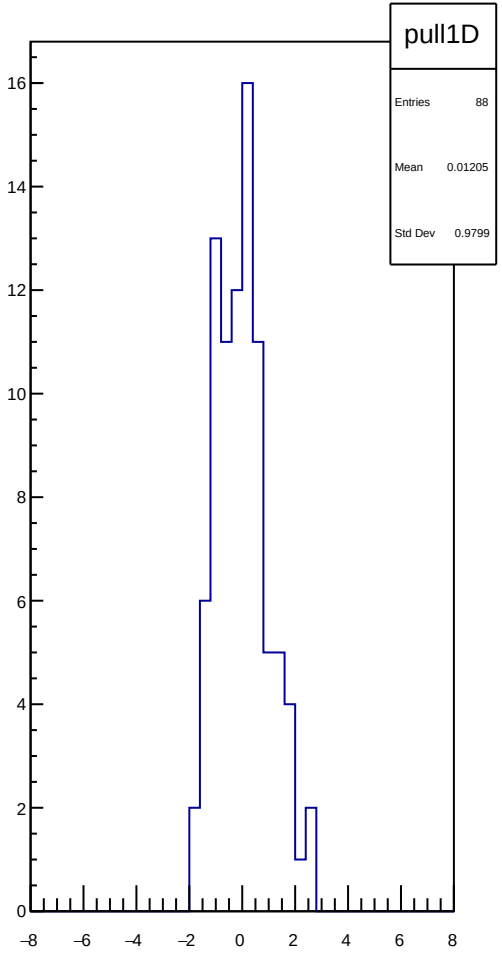

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.541e+04 / 87
p0 8069 ± 6.31
12000
11000
10000
9000
8000
7000

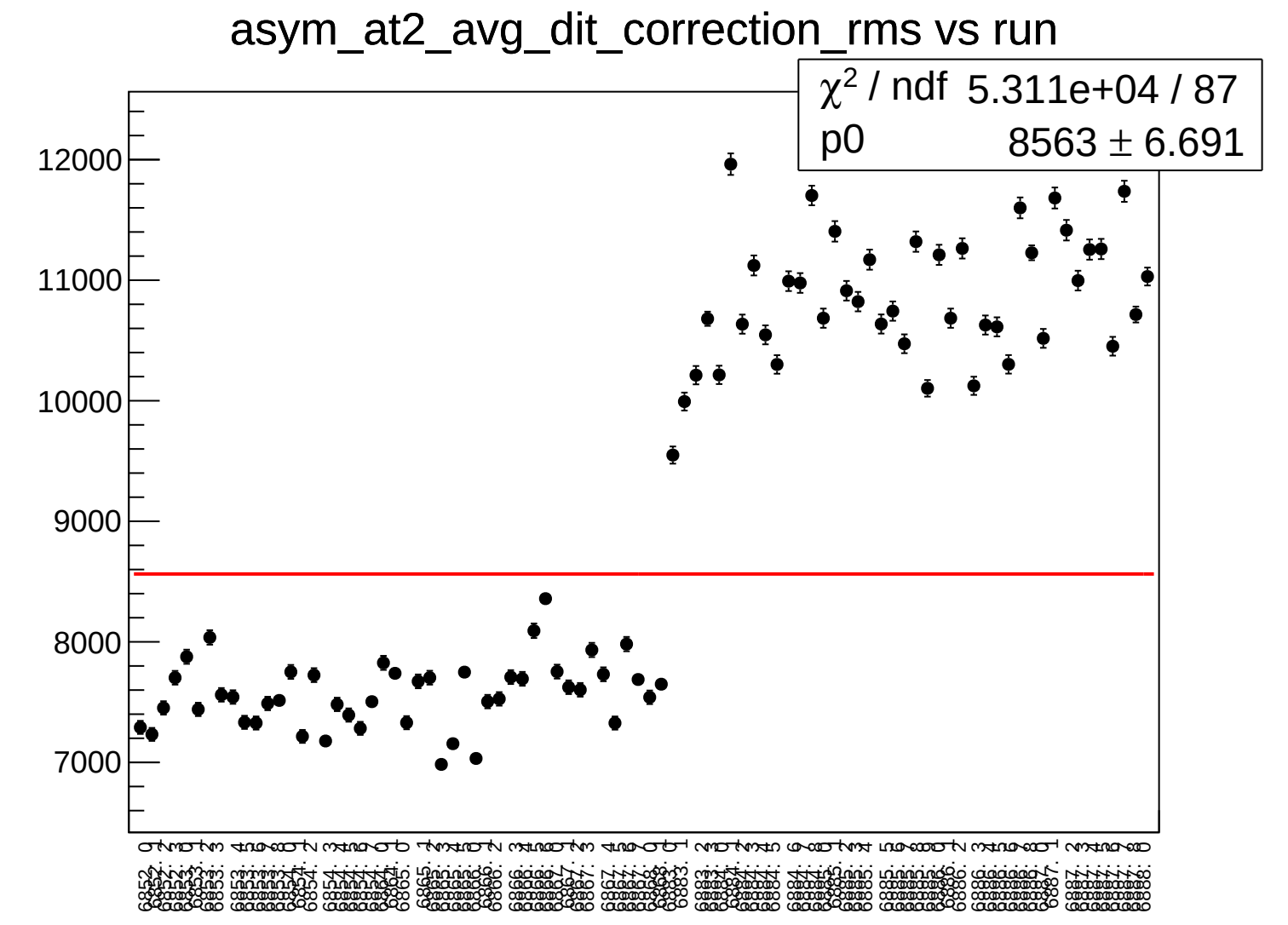

dit_asym_at2_avg_mean vs run
χ² / ndf 55.15 / 87
p0 −989.5 ± 2051
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

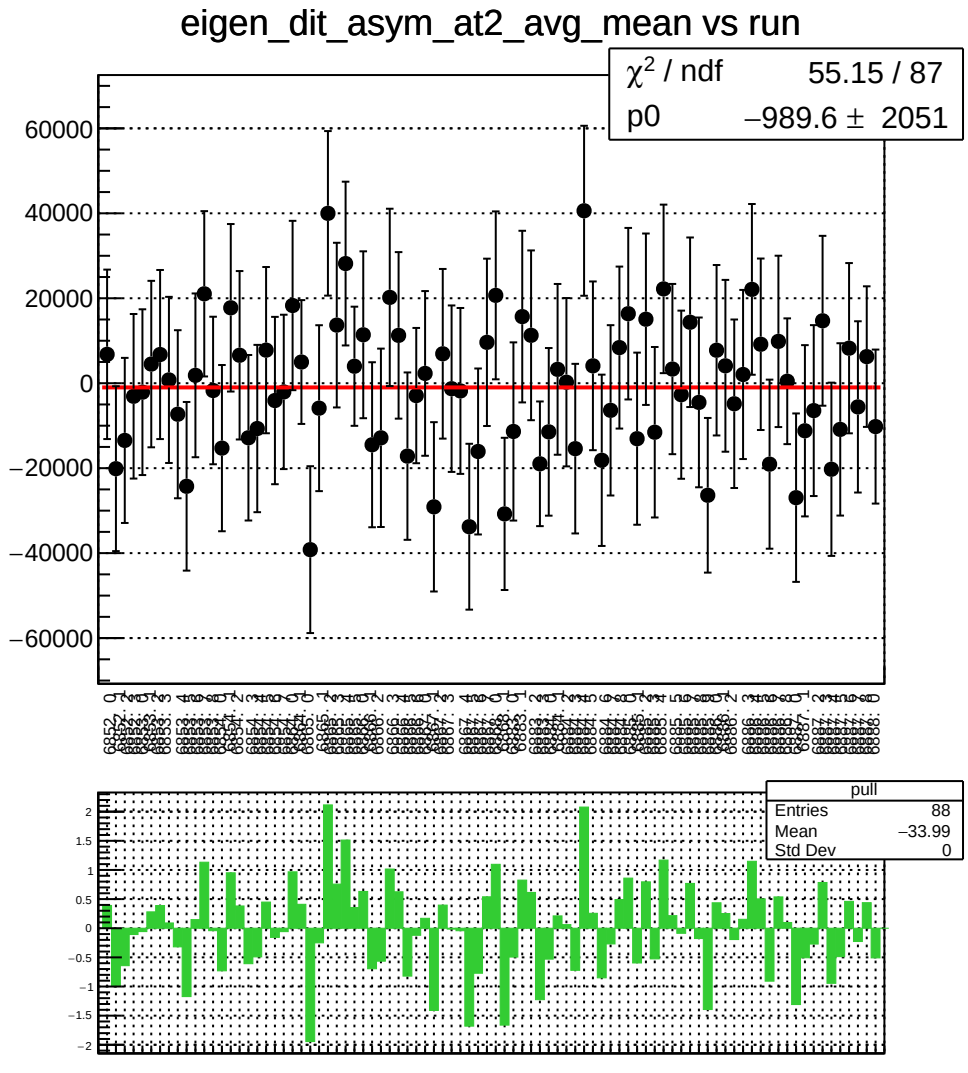

pull1D
Entries 88
Mean 0.004398
Std Dev 0.7916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

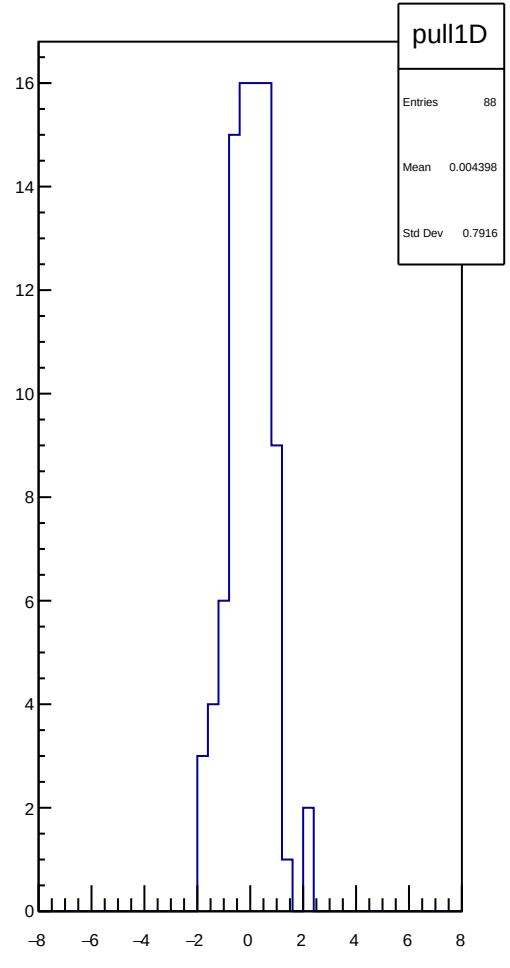

dit_asym_at2_avg_rms vs run
χ² / ndf 593.4 / 87
p0 1886 ± 1.45
2050
2000
1950
1900
1850
1800

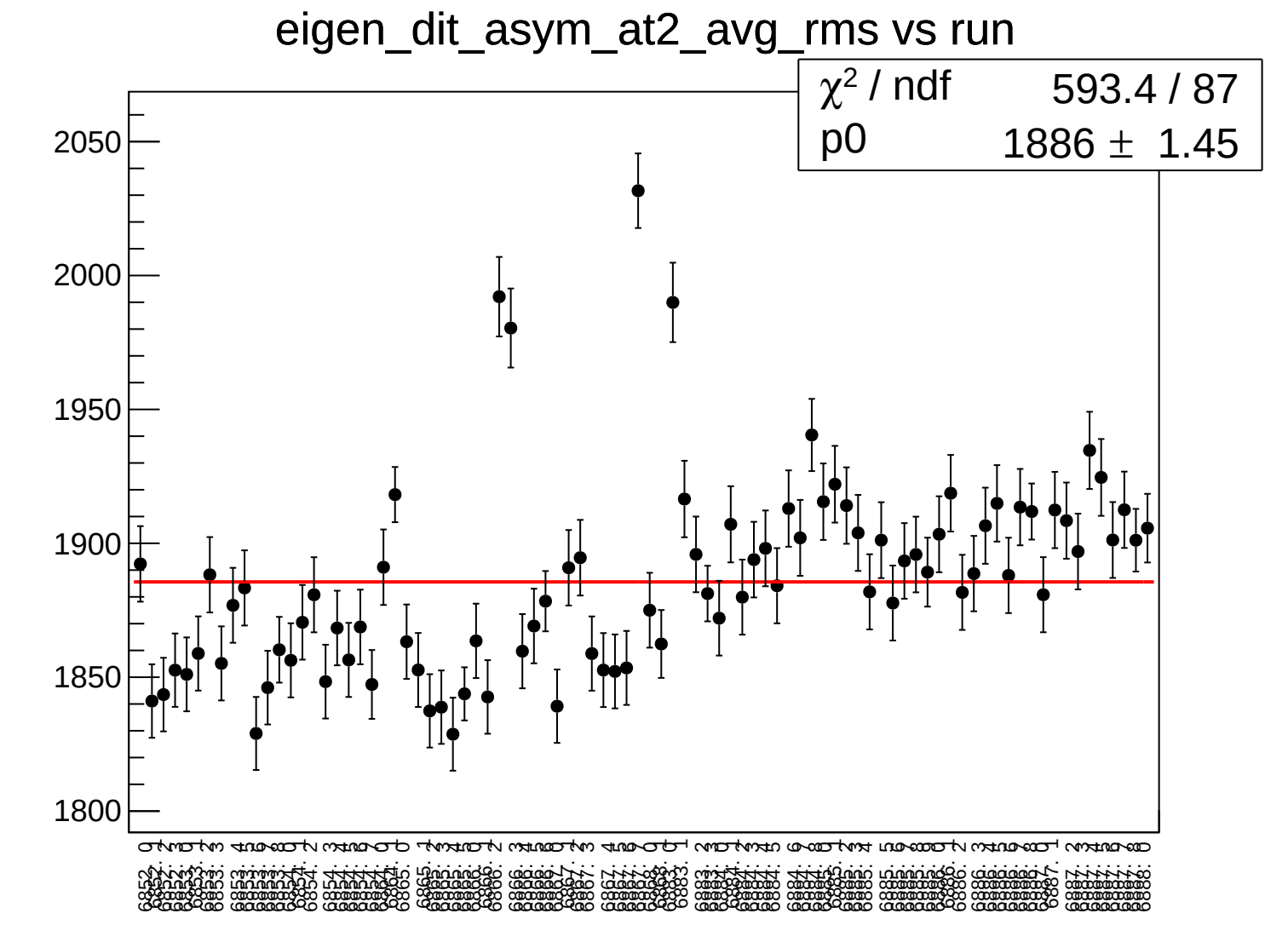

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.51 / 87
p0 −7191 ± 9463
pull
Entries 88
Mean 38.51
Std Dev 0

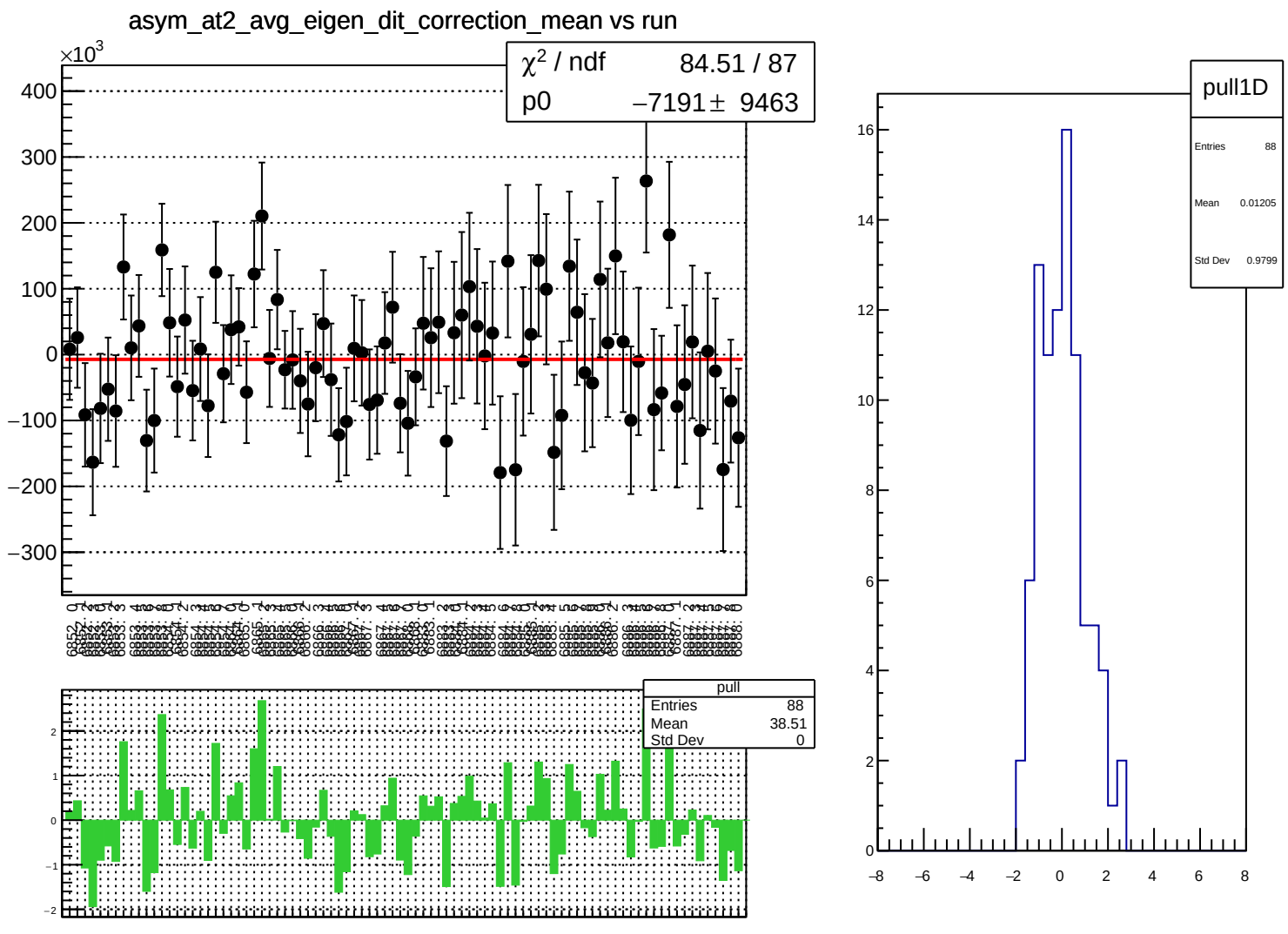

pull1D
Entries 88
Mean 0.01205
Std Dev 0.9799

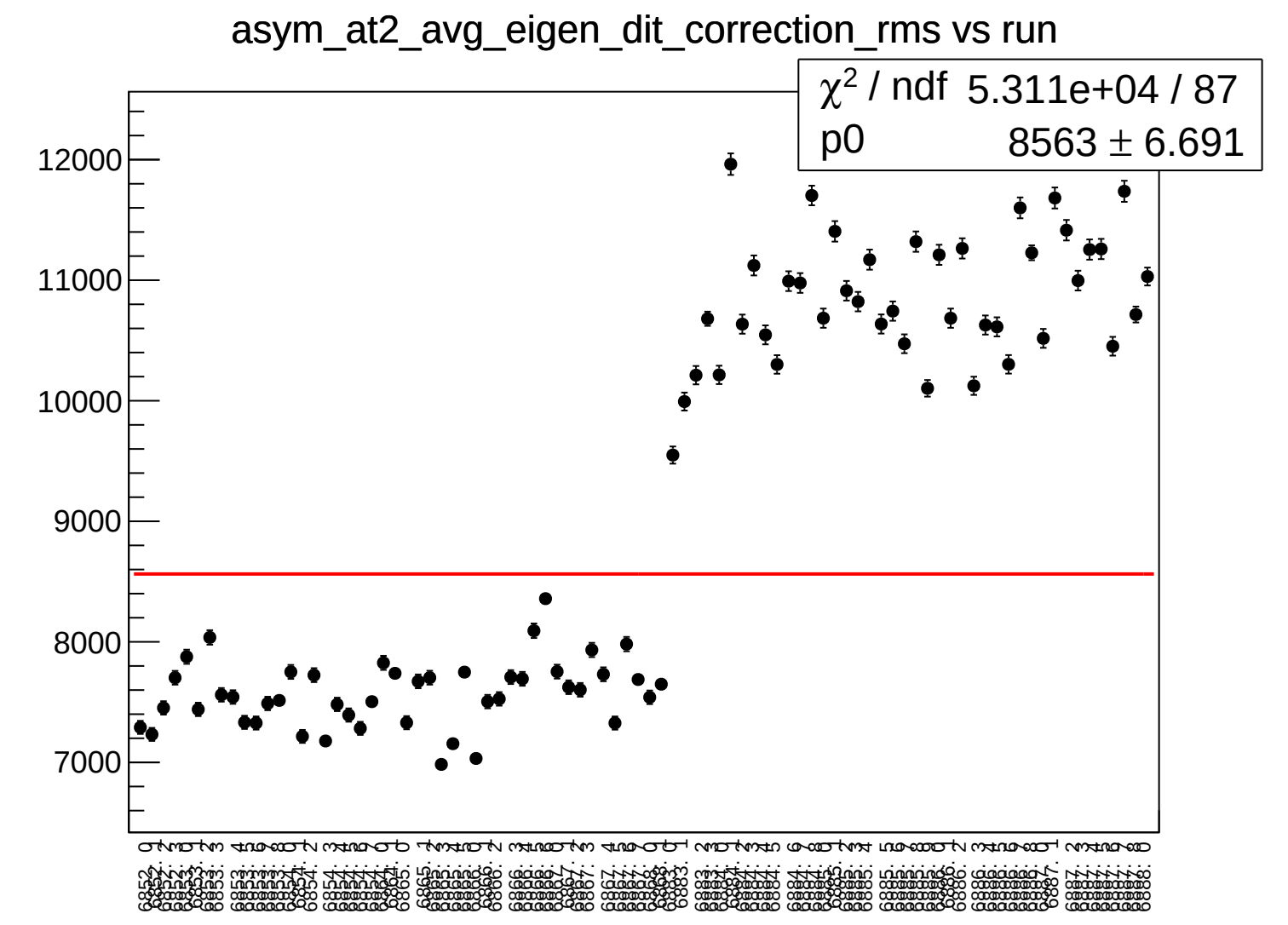

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 5.311e+04 / 87
p0 8563 ± 6.691
12000
11000
10000
9000
8000
7000

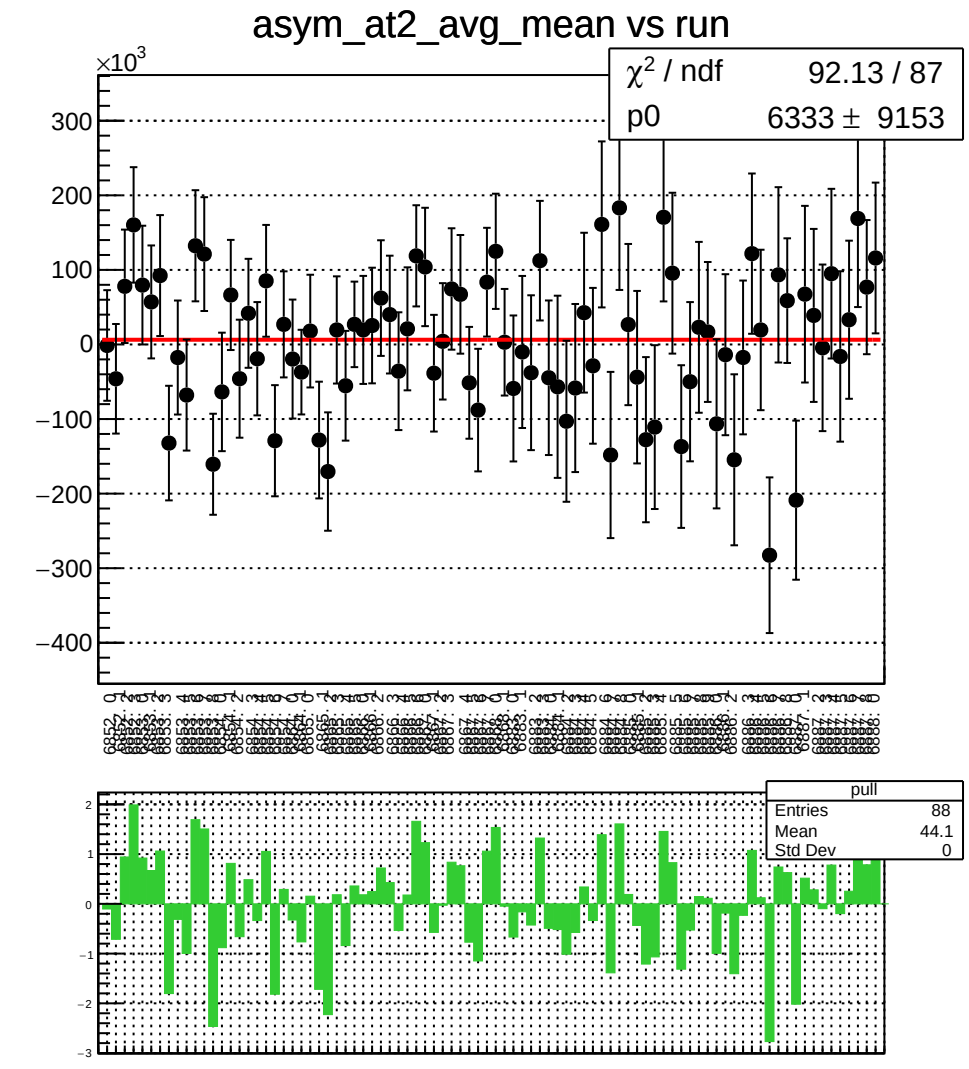

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 55.15 / 87
p0 −989.6 ± 2051
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −33.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

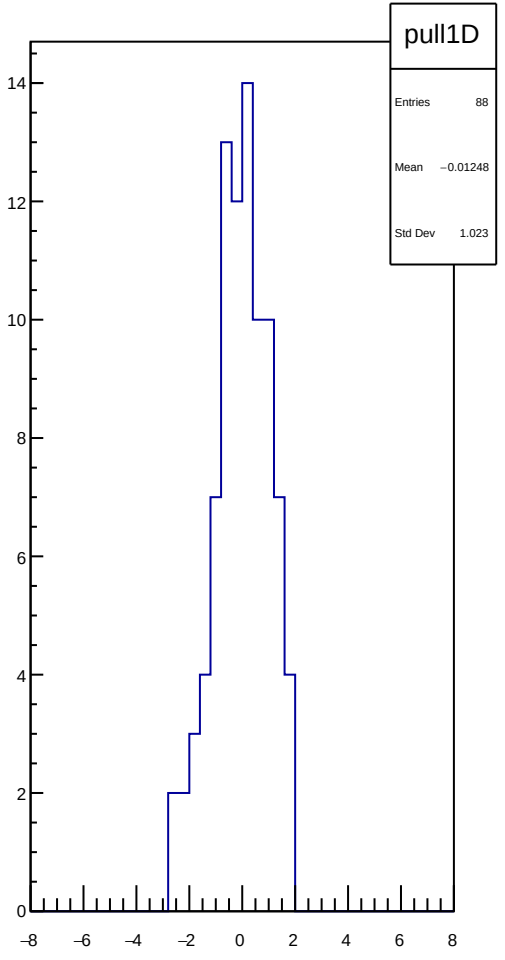

pull1D
Entries 88
Mean 0.004398
Std Dev 0.7916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

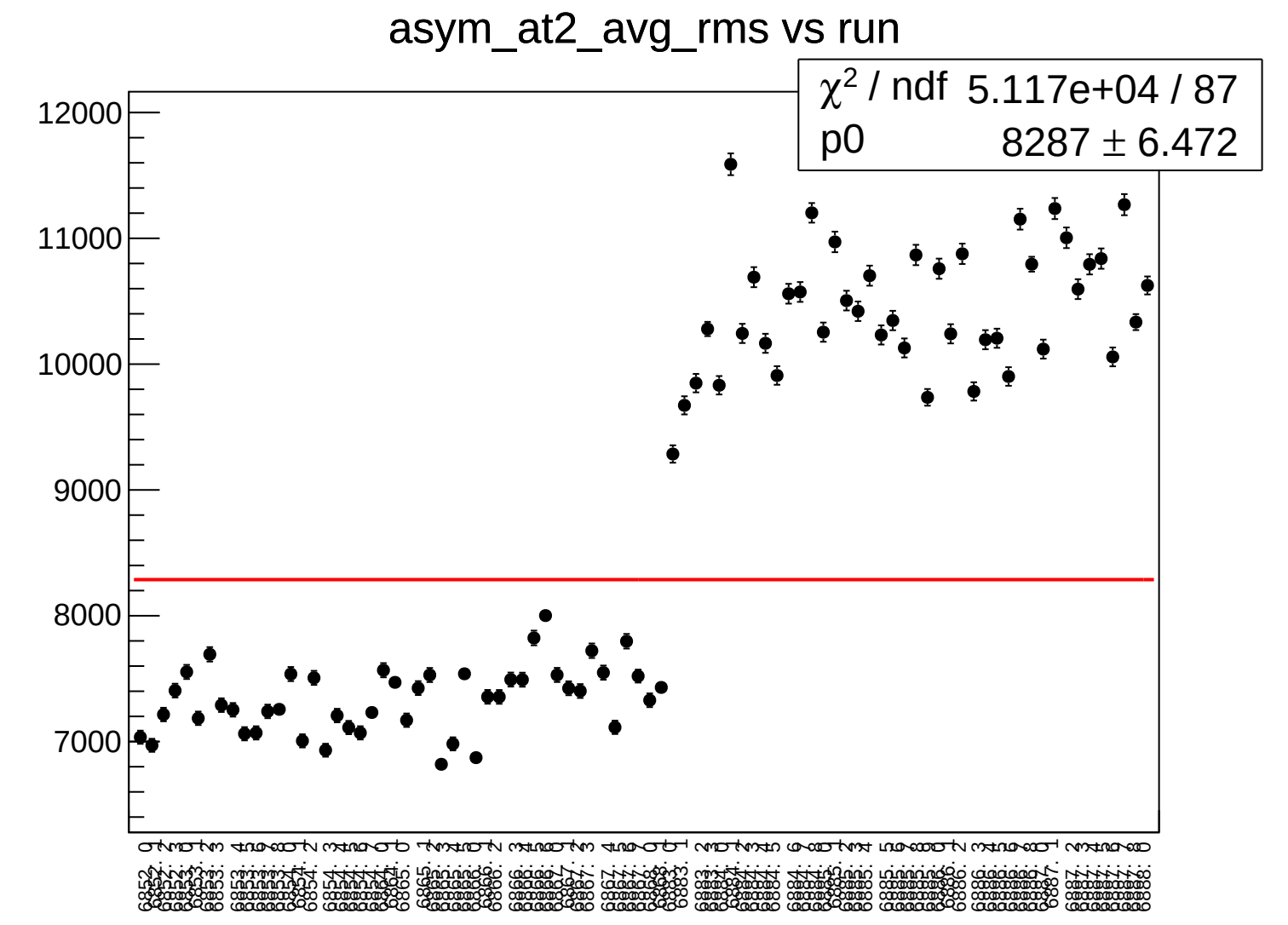

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 593.4 / 87
p0 1886 ± 1.45
2050
2000
1950
1900
1850
1800

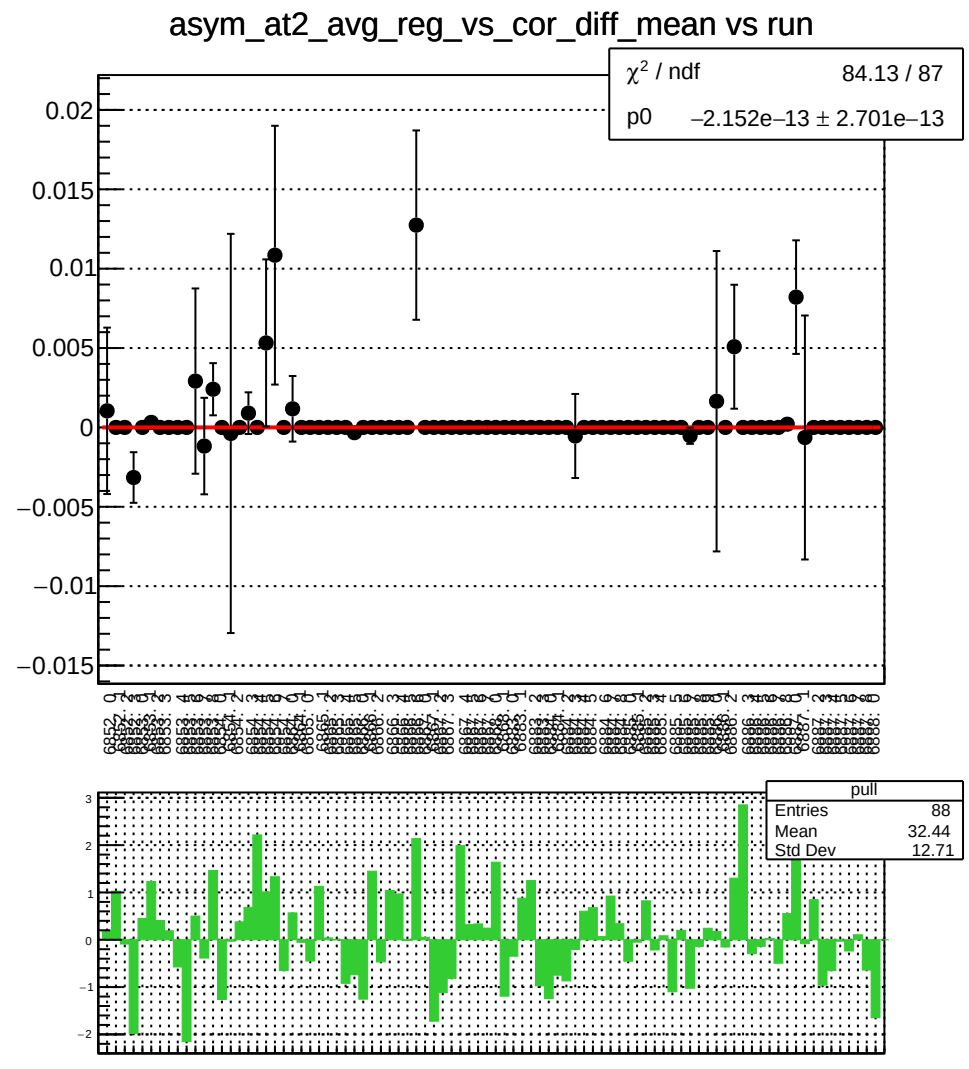

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.51 / 87
p0 −7191 ± 9463
pull
Entries 88
Mean 38.51
Std Dev 0
pull1D
Entries 88
Mean 0.01205
Std Dev 0.9799

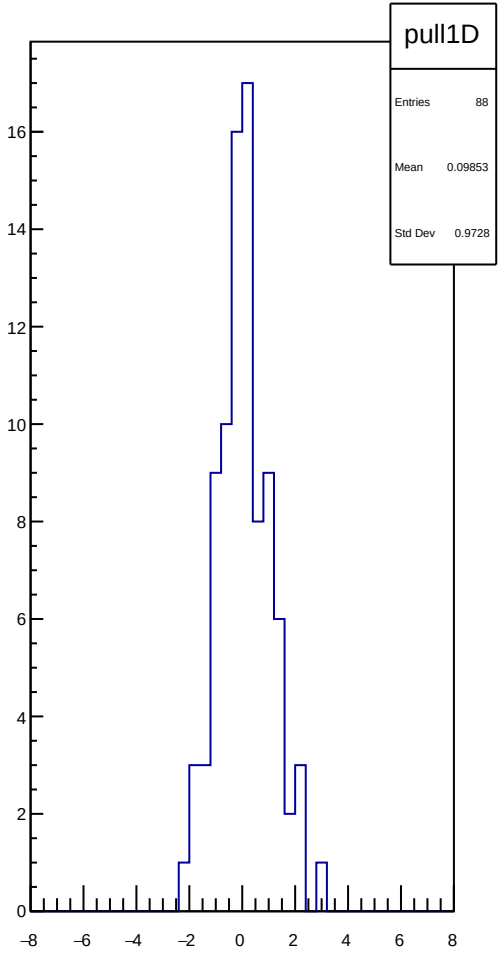

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.311e+04 / 87
p0 8563 ± 6.691
12000
11000
10000
9000
8000
7000

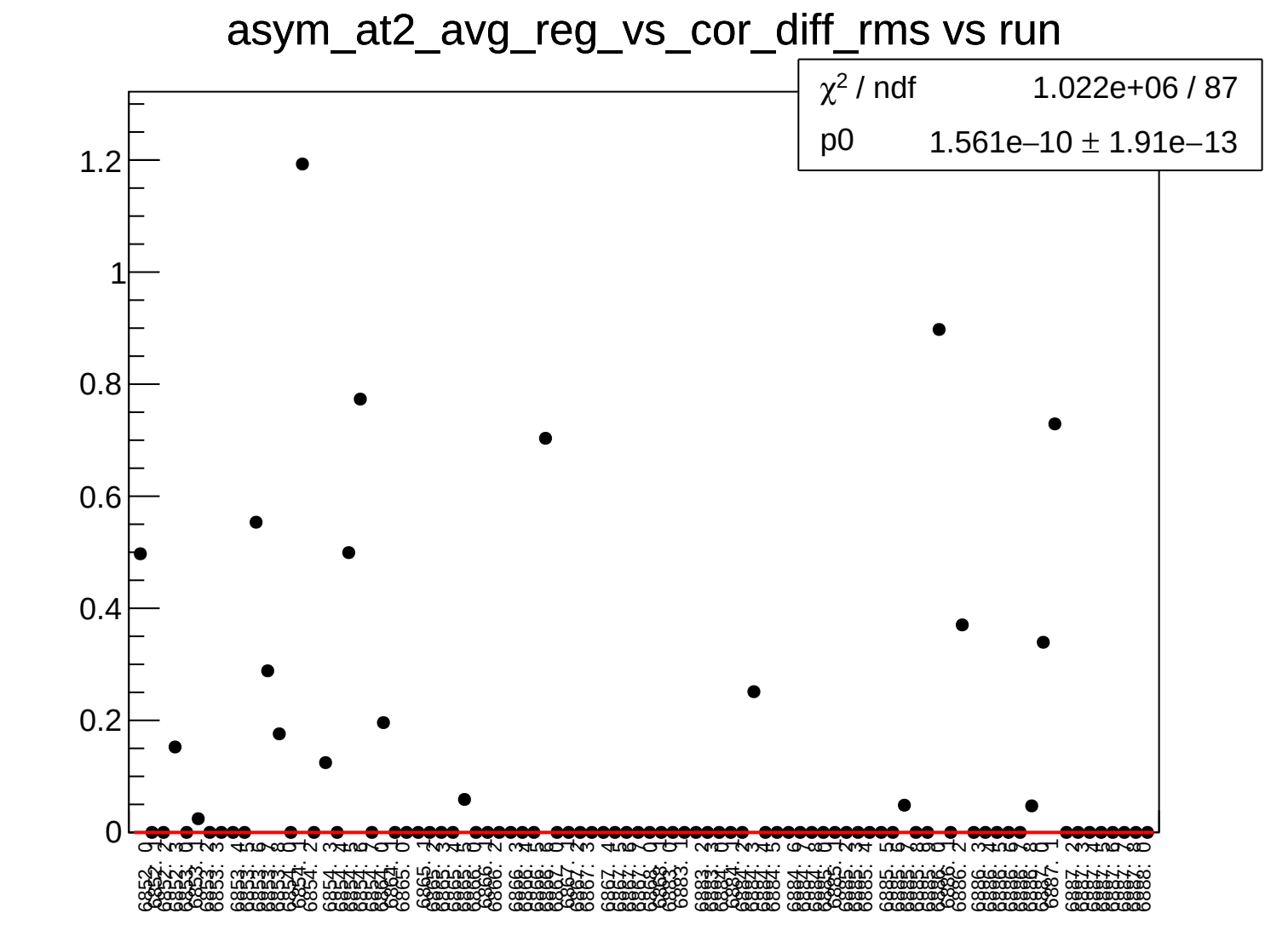

asym_at2_avg_mean vs run
×10^3
χ² / ndf 92.13 / 87
p0 6333 ± 9153
pull
Entries 88
Mean 44.1
Std Dev 0

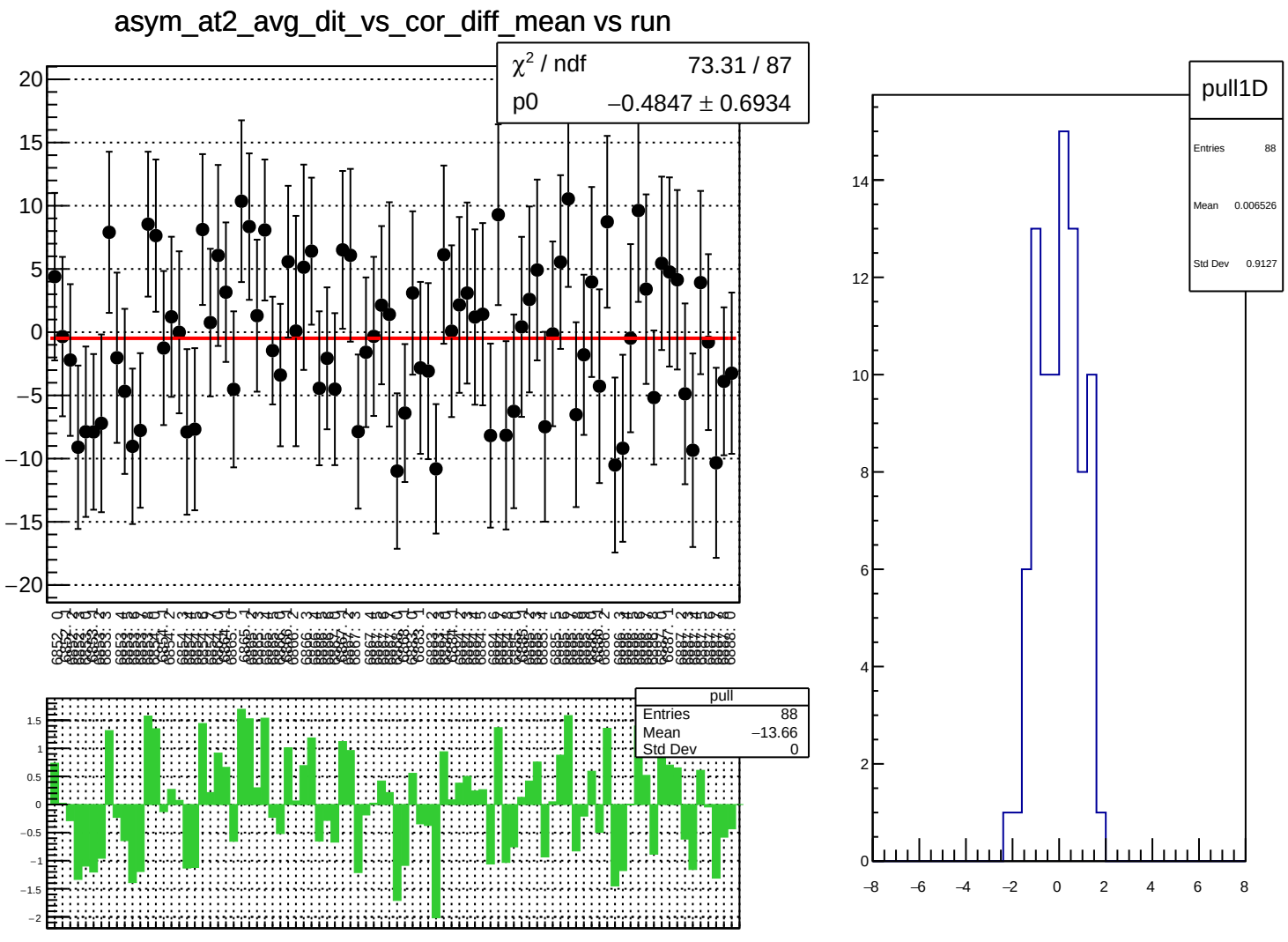

pull1D
Entries 88
Mean −0.01248
Std Dev 1.023

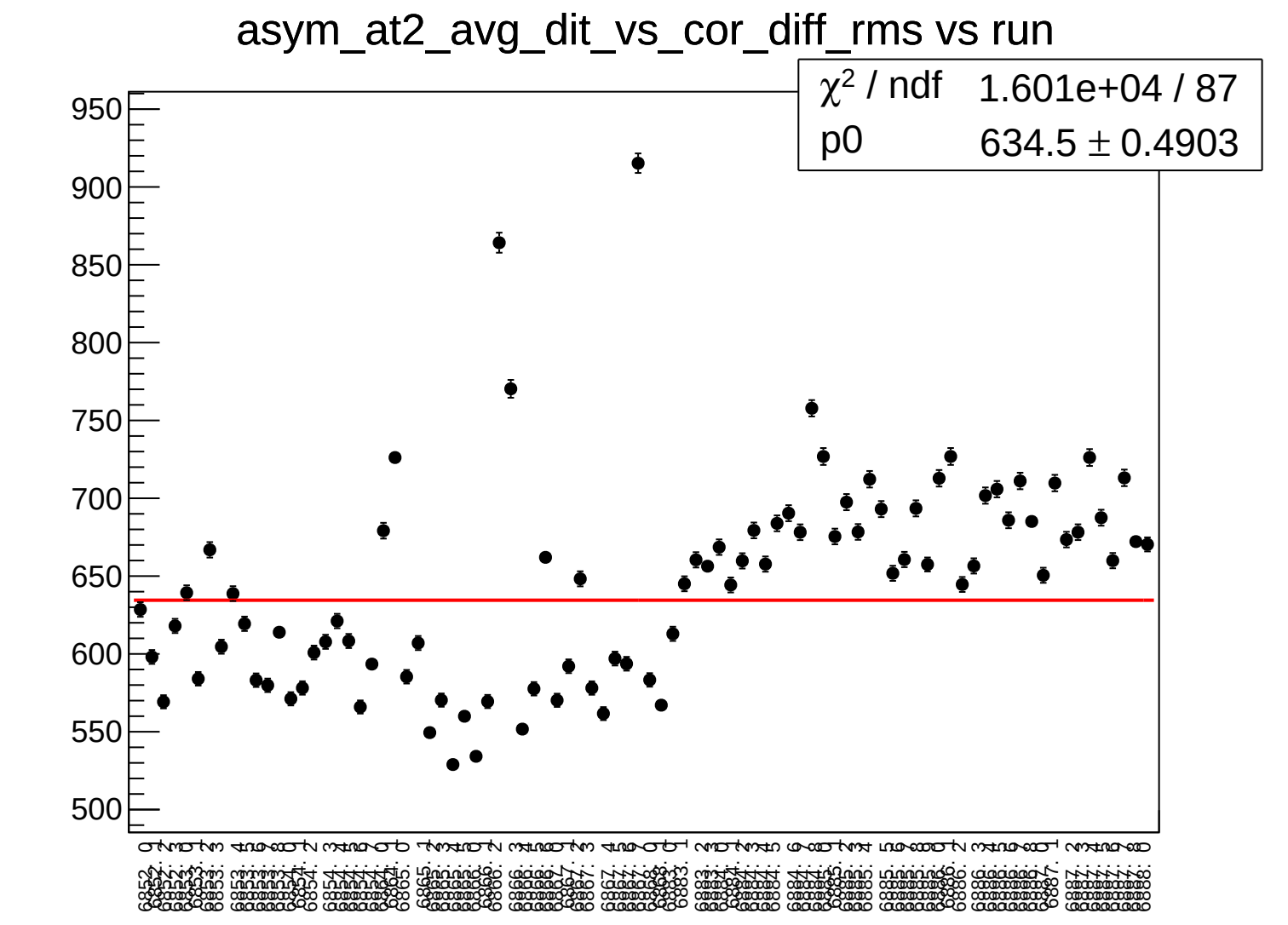

asym_at2_avg_rms vs run
χ^2 / ndf 5.117e+04 / 87
p0 8287 ± 6.472
12000
11000
10000
9000
8000
7000

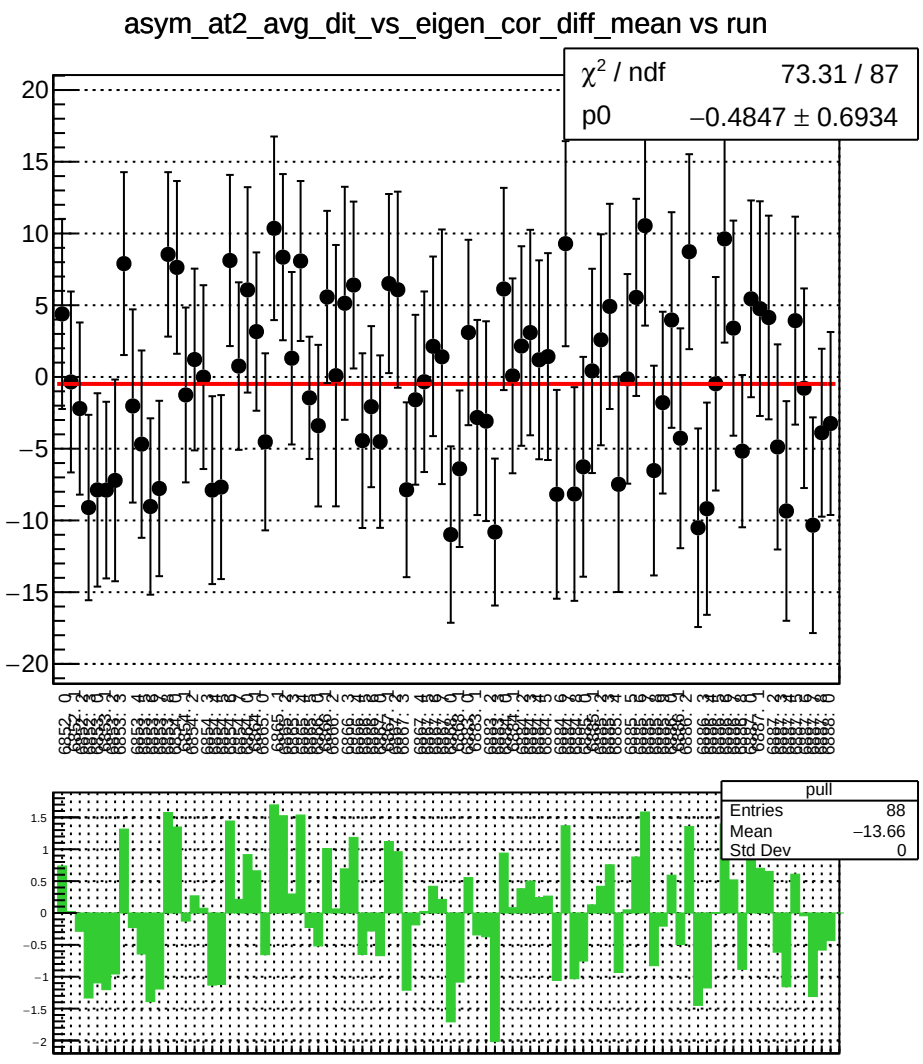

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.13 / 87
p0 −2.152e−13 ± 2.701e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 32.44
Std Dev 12.71
3
2
1
0
−1
−2

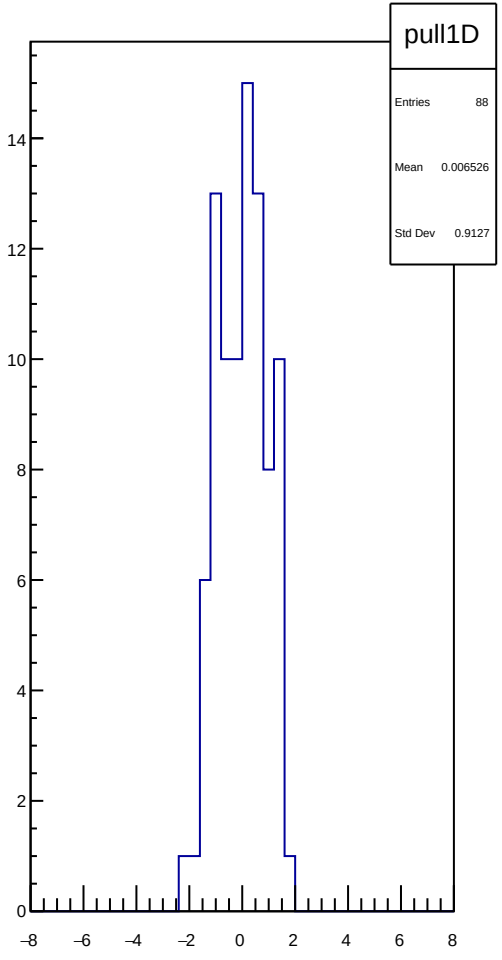

pull1D
Entries 88
Mean 0.09853
Std Dev 0.9728
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

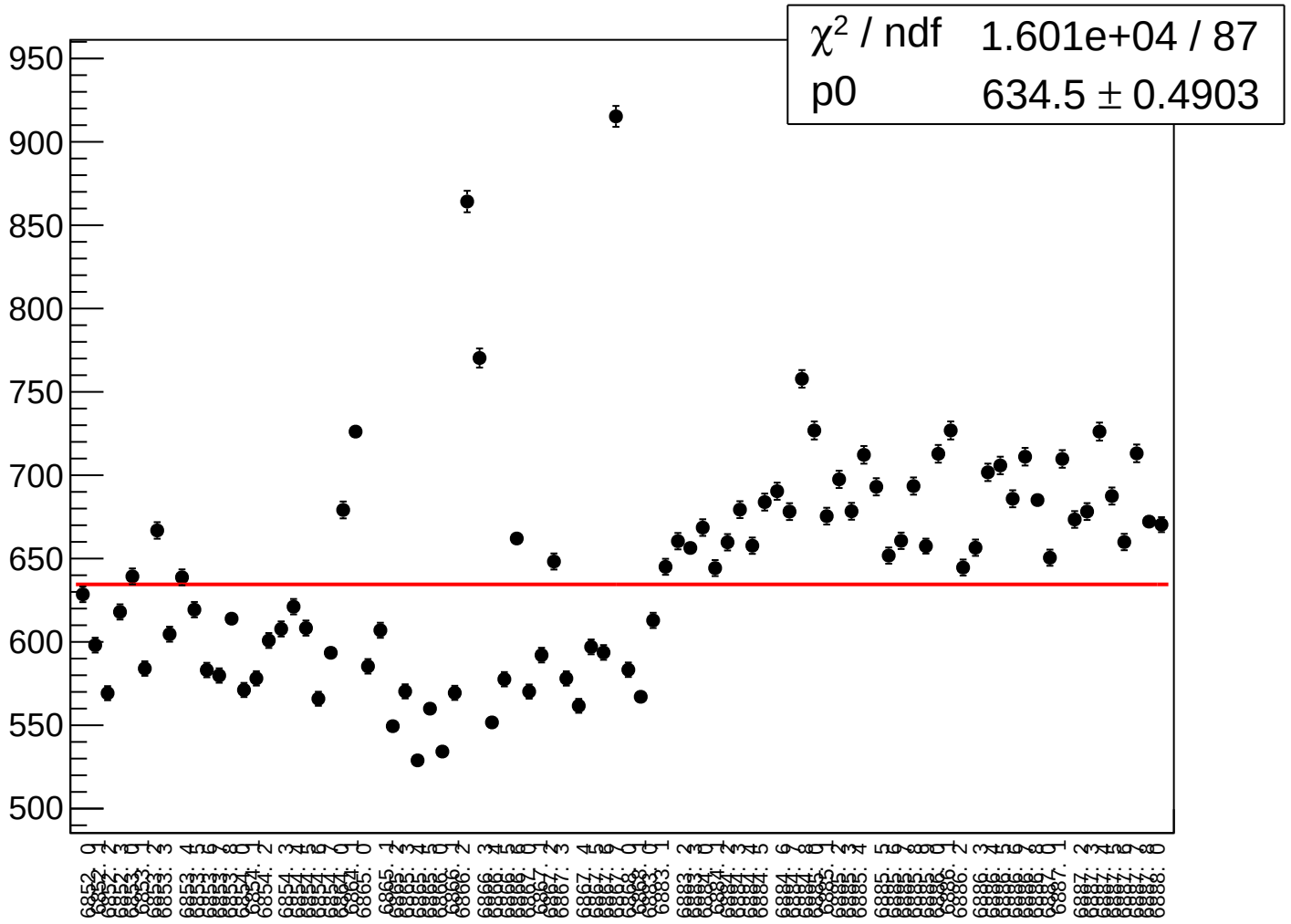

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.022e+06 / 87
p0 1.561e−10 ± 1.91e−13
1.2
1
0.8
0.6
0.4
0.2
0

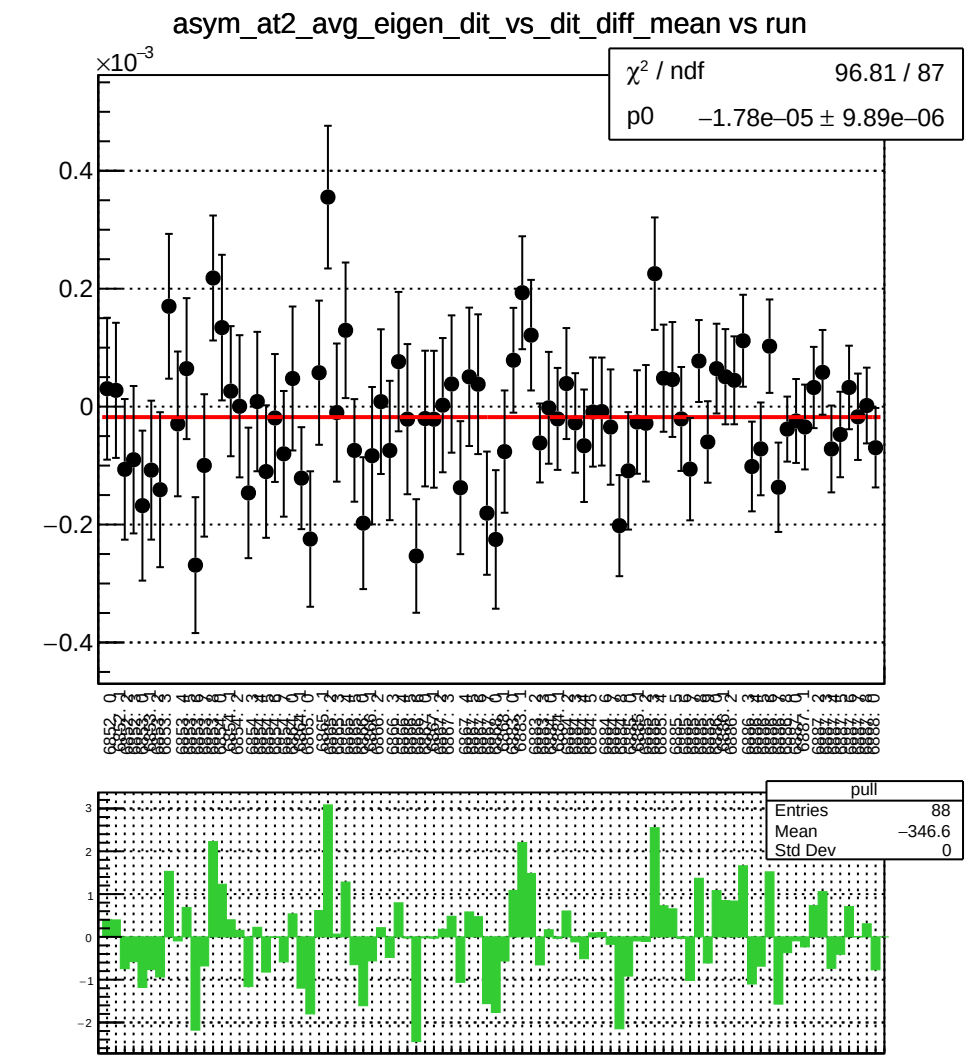

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.31 / 87
p0 −0.4847 ± 0.6934
pull
Entries 88
Mean −13.66
Std Dev 0
pull1D
Entries 88
Mean 0.006526
Std Dev 0.9127

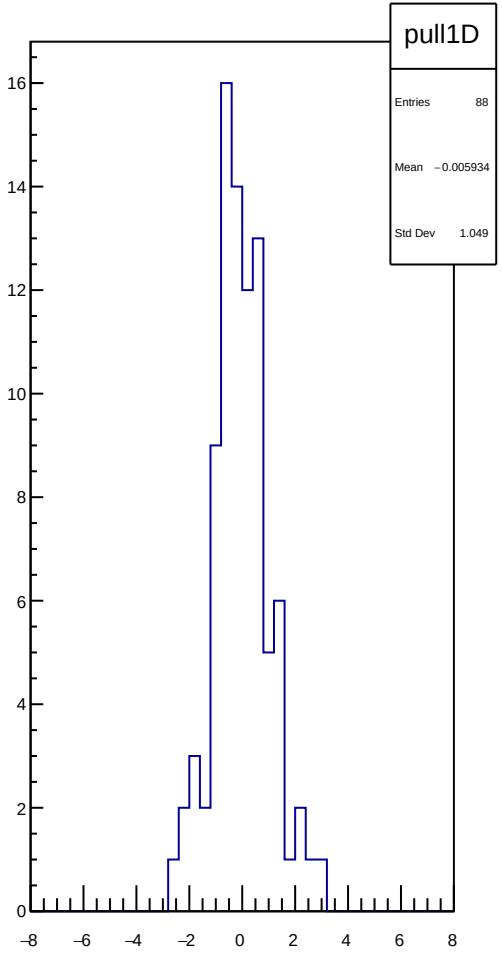

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.601e+04 / 87
p0 634.5 ± 0.4903
950
900
850
800
750
700
650
600
550
500

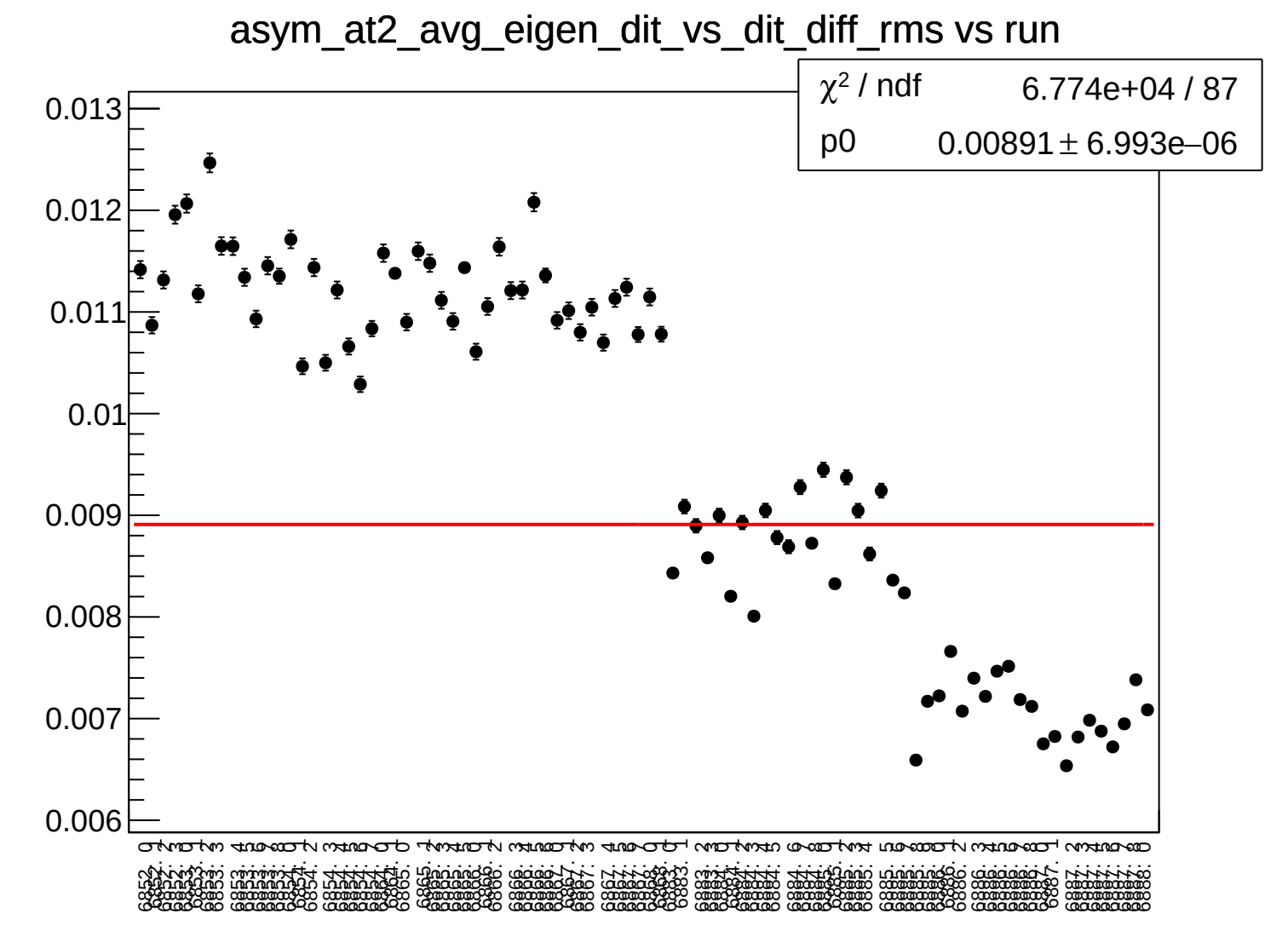

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.31 / 87
p0 −0.4847 ± 0.6934
pull
Entries 88
Mean −13.66
Std Dev 0

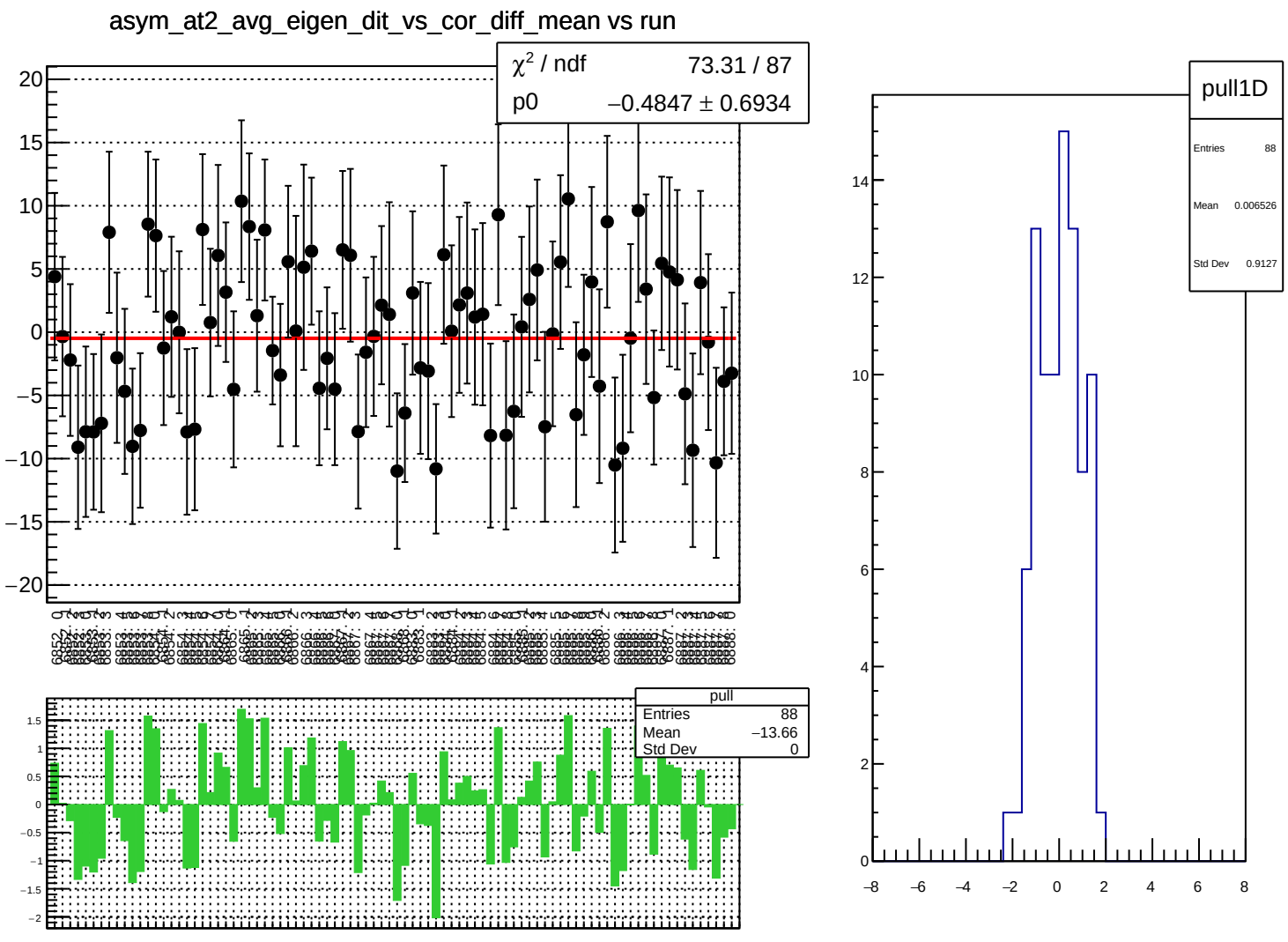

pull1D
Entries 88
Mean 0.006526
Std Dev 0.9127

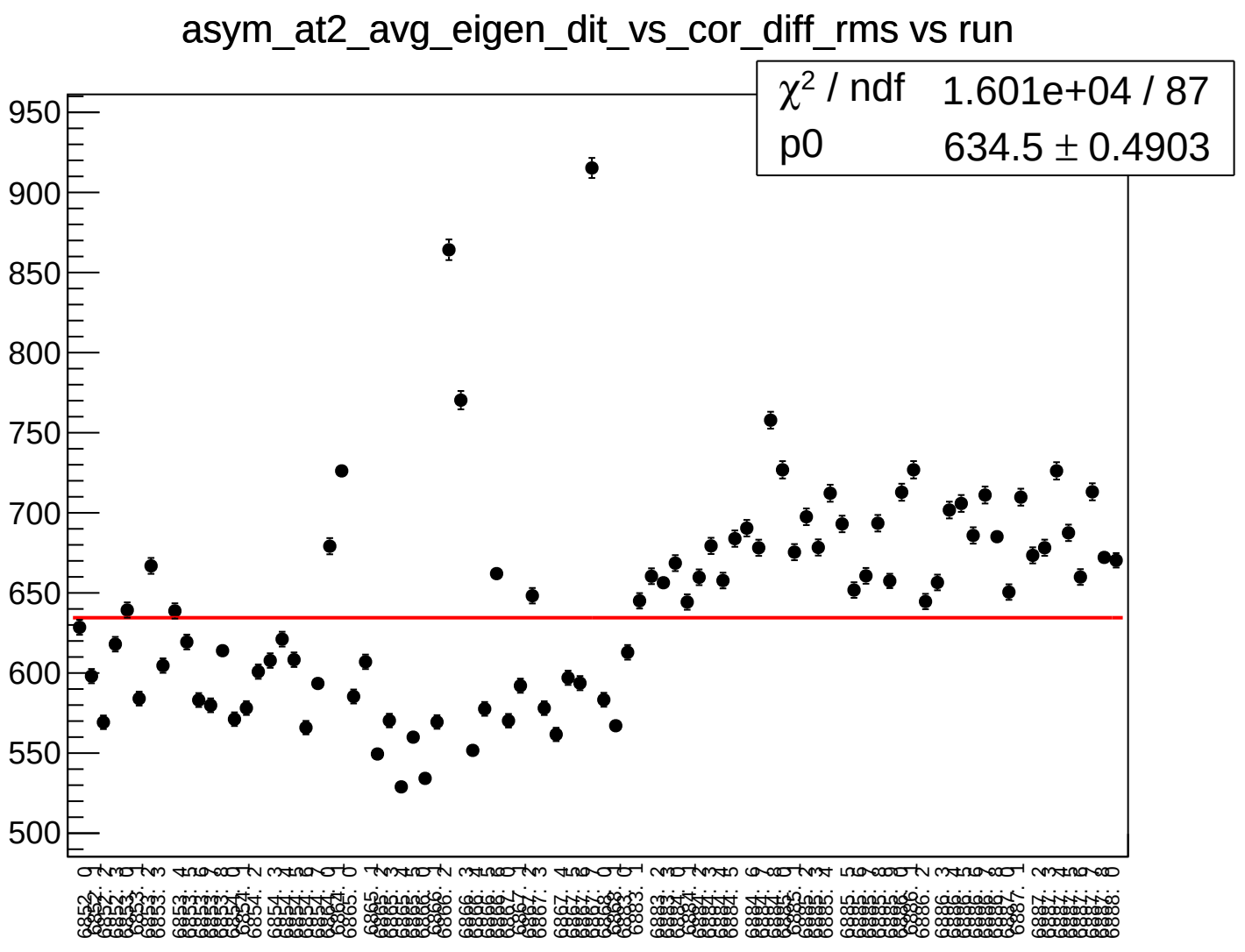

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.601e+04 / 87
p0 634.5 ± 0.4903
950
900
850
800
750
700
650
600
550
500

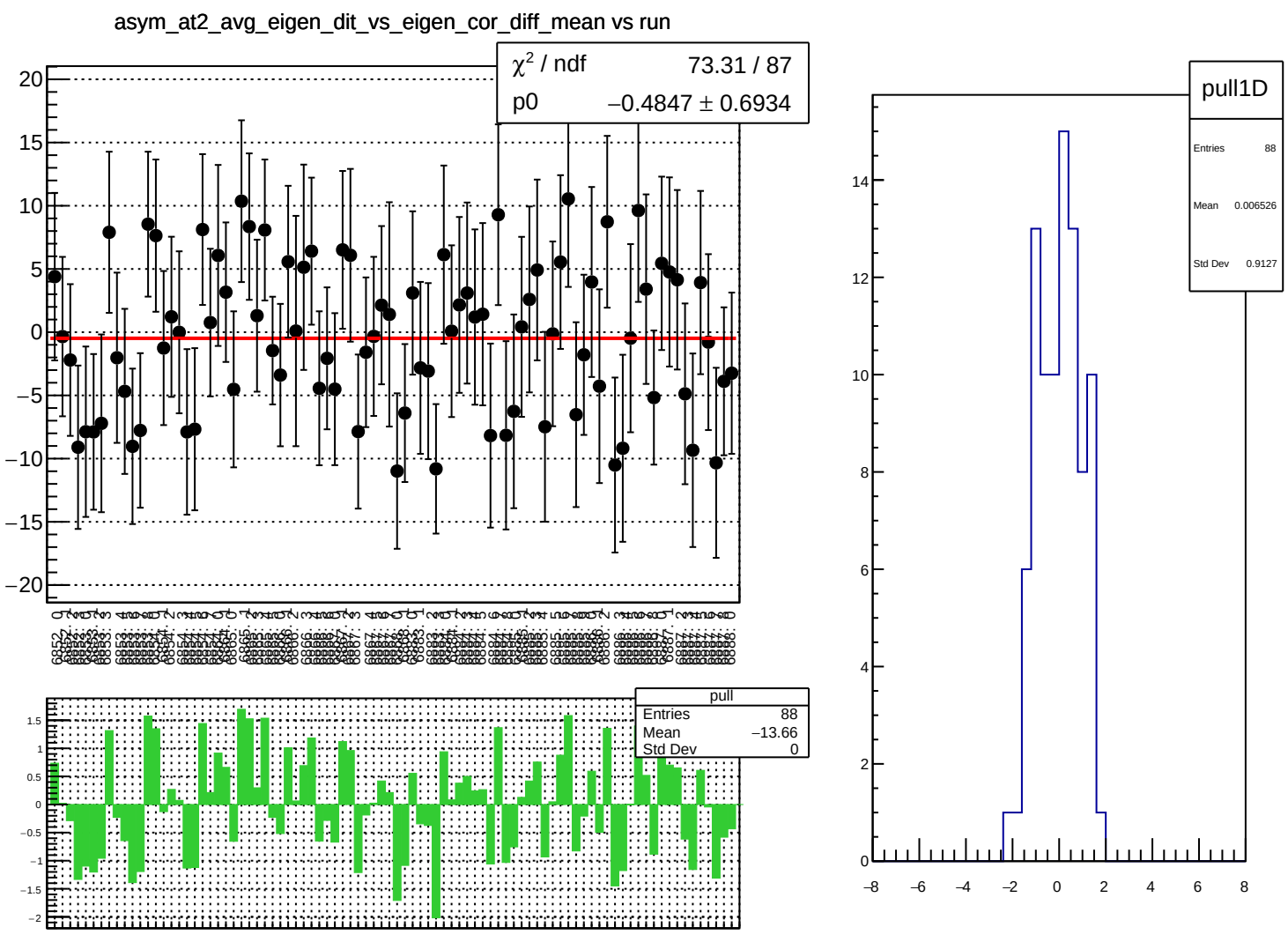

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.81 / 87
p0 −1.78e−05 ± 9.89e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean −346.6
Std Dev 0
3
2
1
0
−1
−2

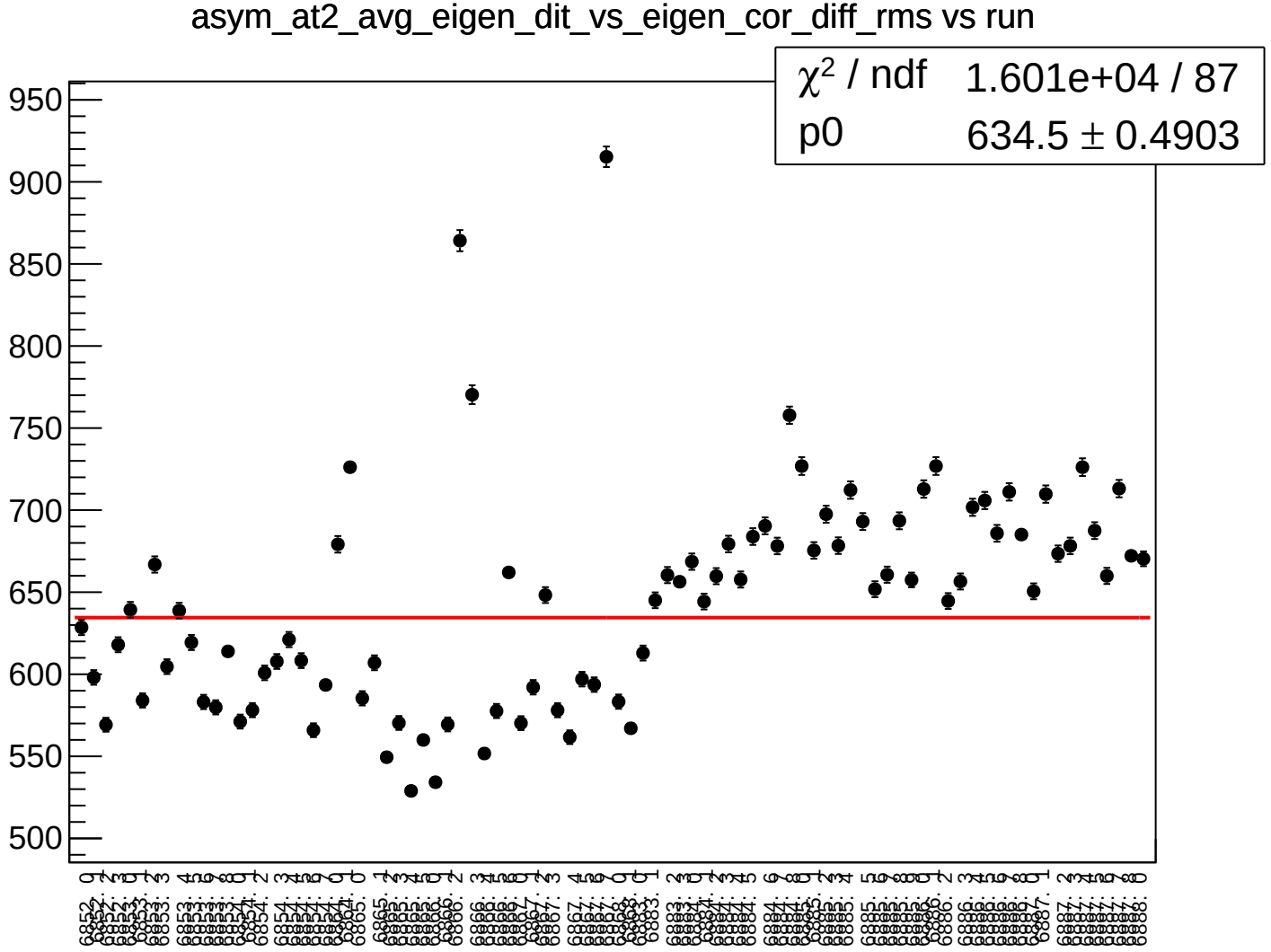

pull1D
Entries 88
Mean −0.005934
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

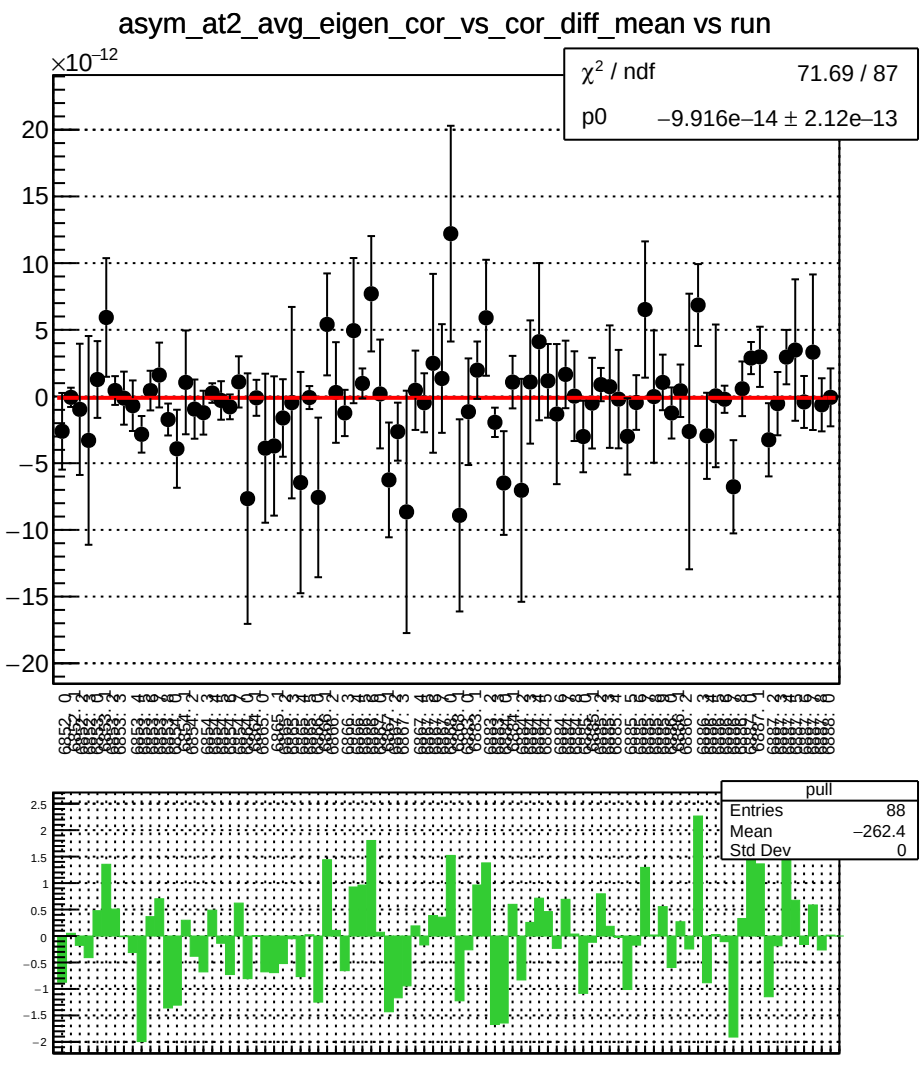

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.774e+04 / 87
p0 0.00891 ± 6.993e–06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

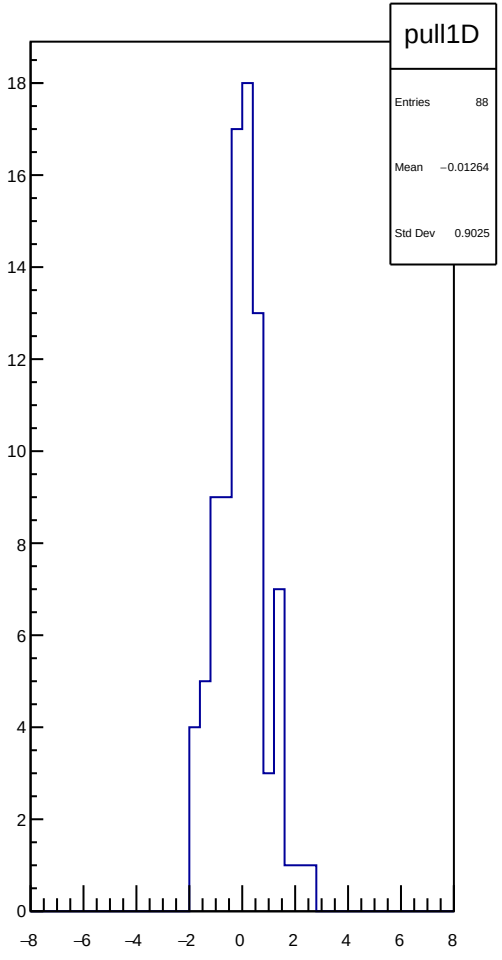

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.31 / 87
p0 −0.4847 ± 0.6934
pull
Entries 88
Mean −13.66
Std Dev 0
pull1D
Entries 88
Mean 0.006526
Std Dev 0.9127

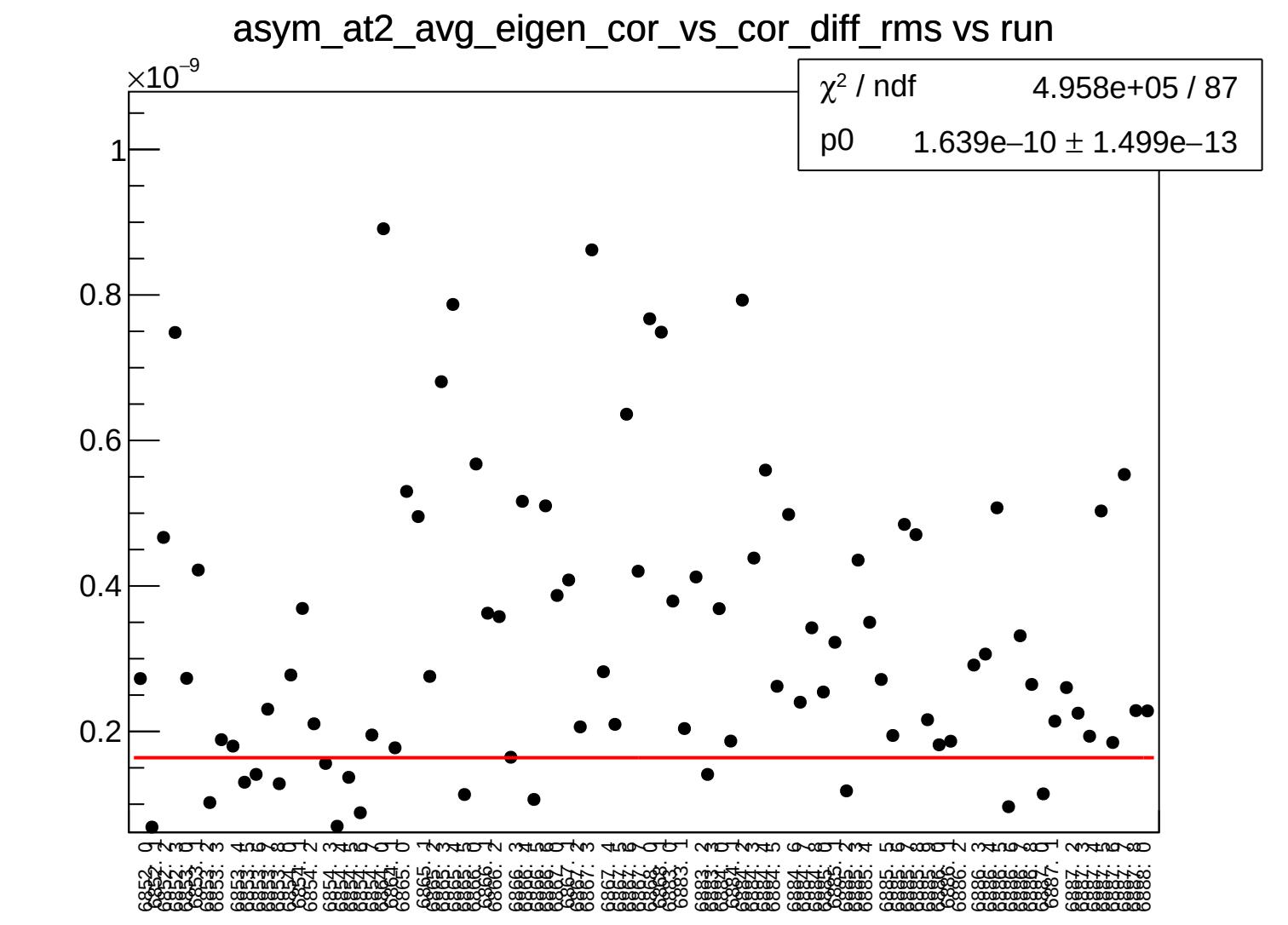

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.601e+04 / 87
p0 634.5 ± 0.4903
950
900
850
800
750
700
650
600
550
500

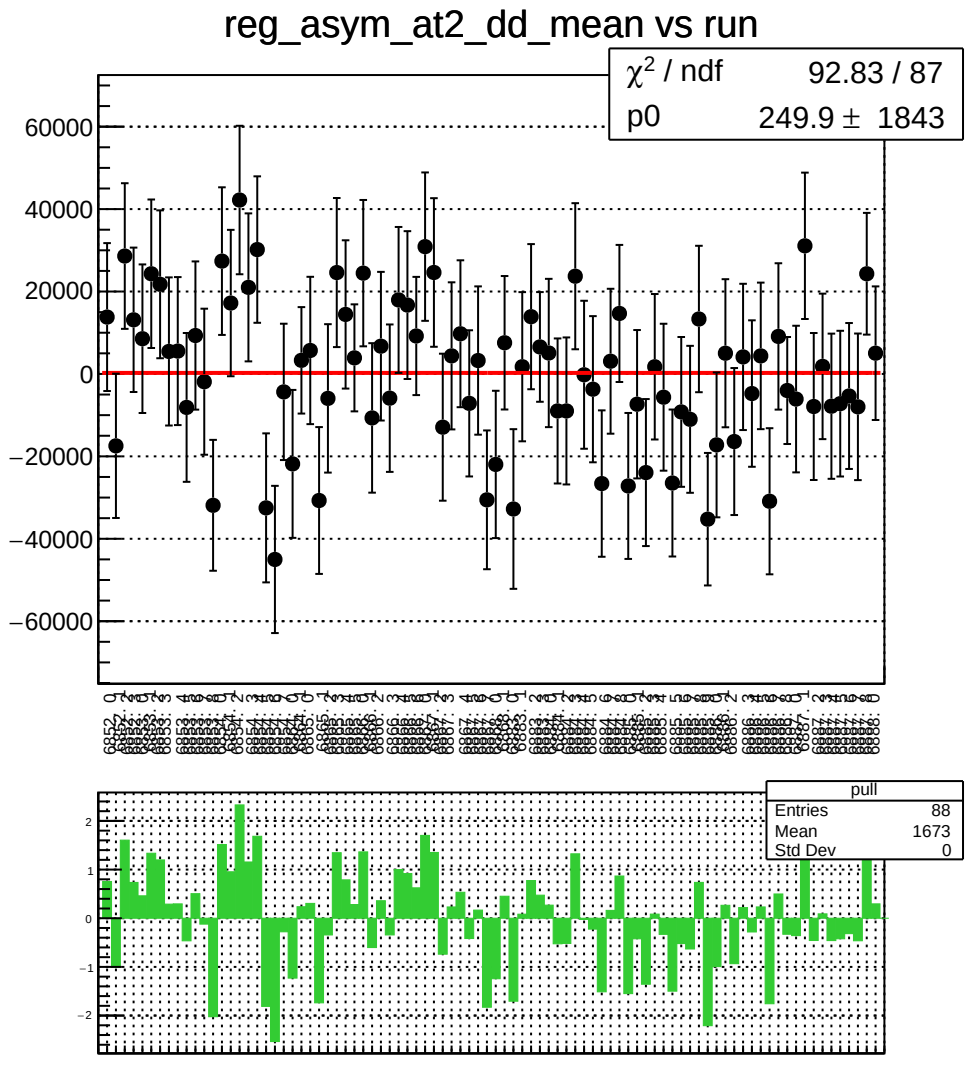

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.31 / 87
p0 −0.4847 ± 0.6934
pull
Entries 88
Mean −13.66
Std Dev 0
pull1D
Entries 88
Mean 0.006526
Std Dev 0.9127

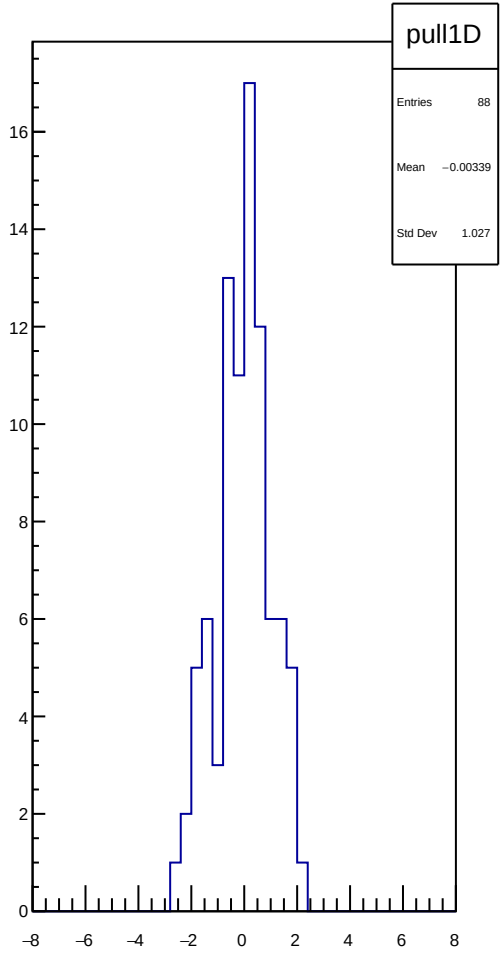

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.601e+04 / 87
p0 634.5 ± 0.4903
950
900
850
800
750
700
650
600
550
500

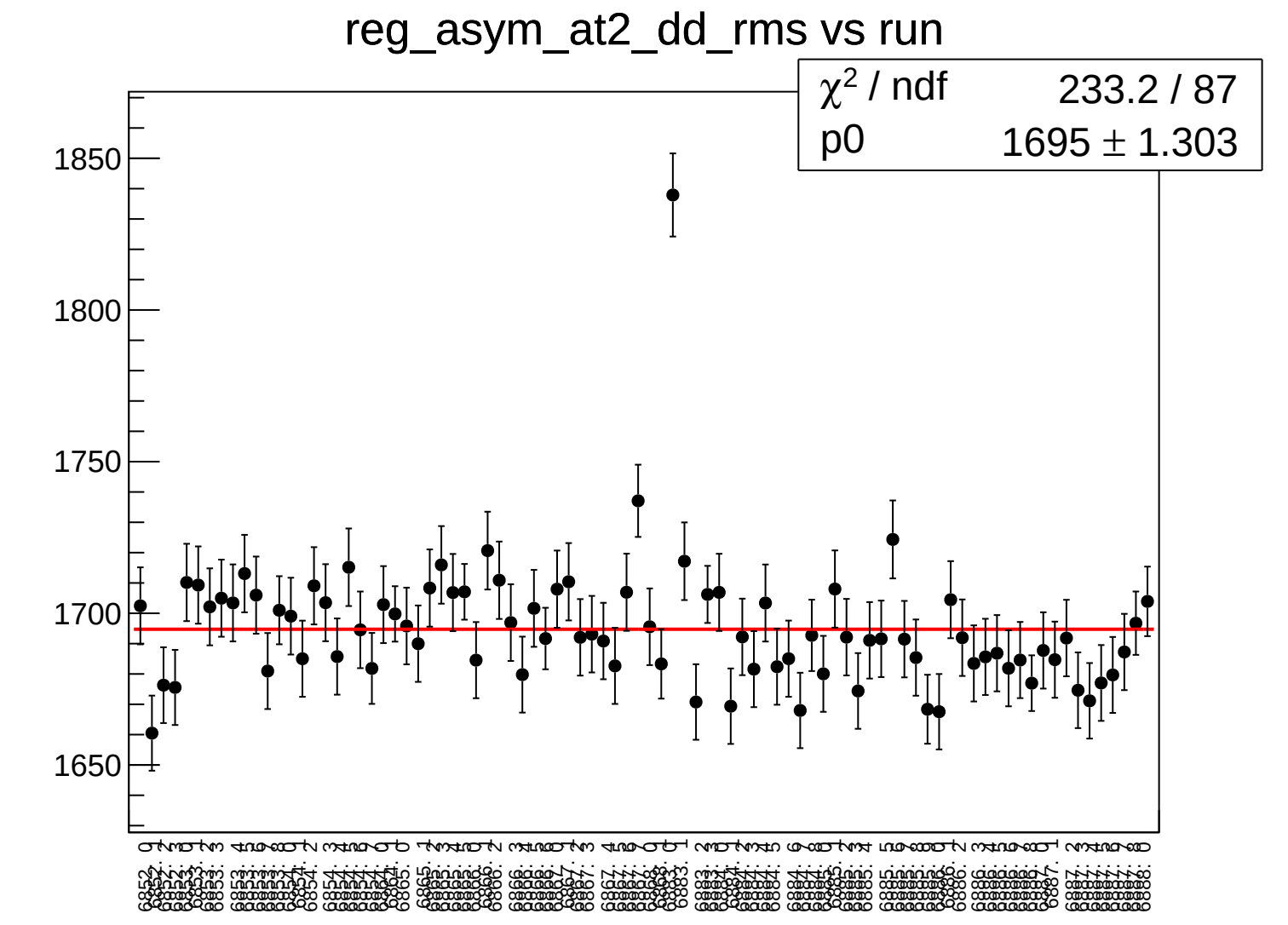

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.69 / 87
p0 −9.916e−14 ± 2.12e−13
pull
Entries 88
Mean −262.4
Std Dev 0

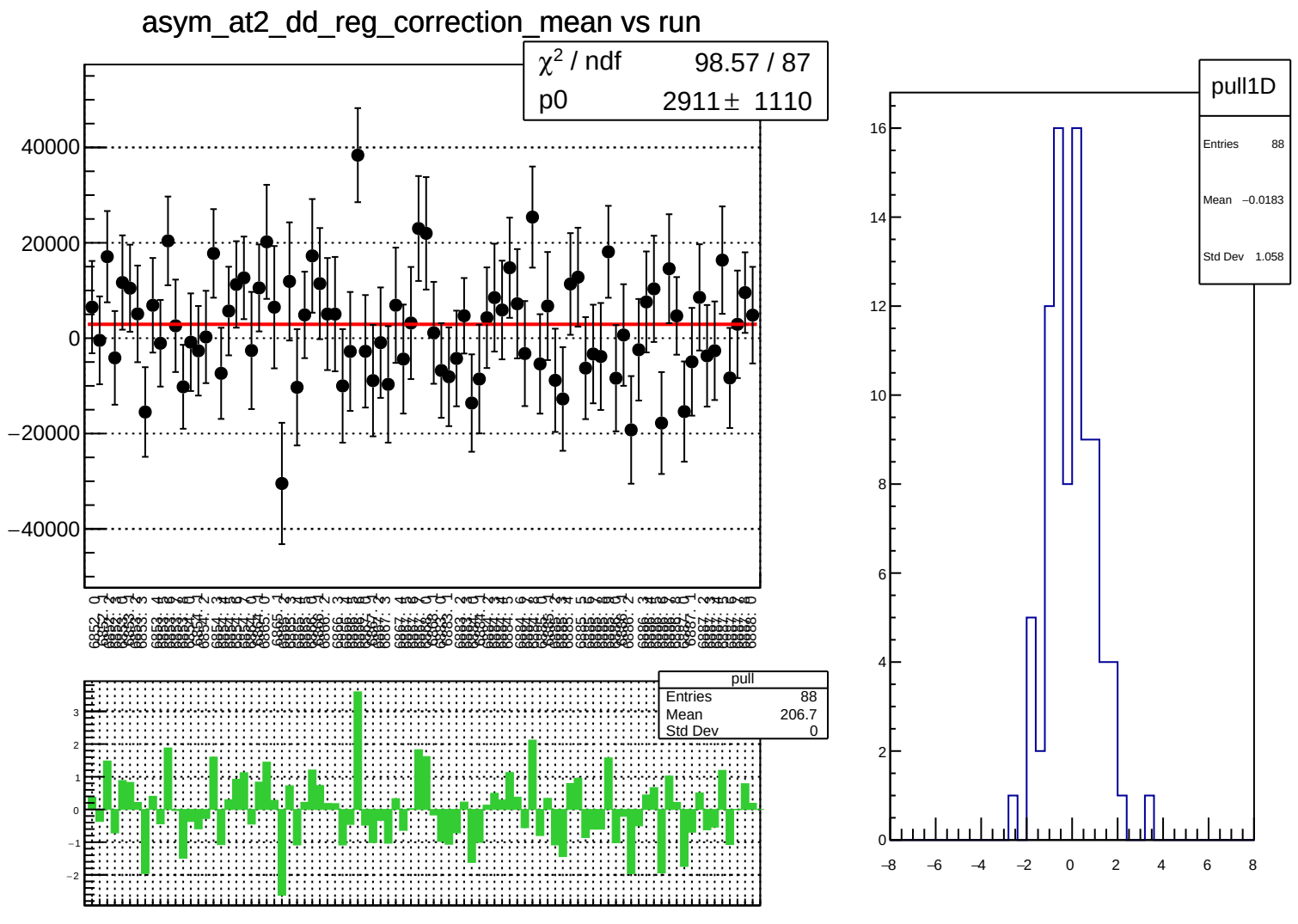

pull1D
Entries 88
Mean −0.01264
Std Dev 0.9025

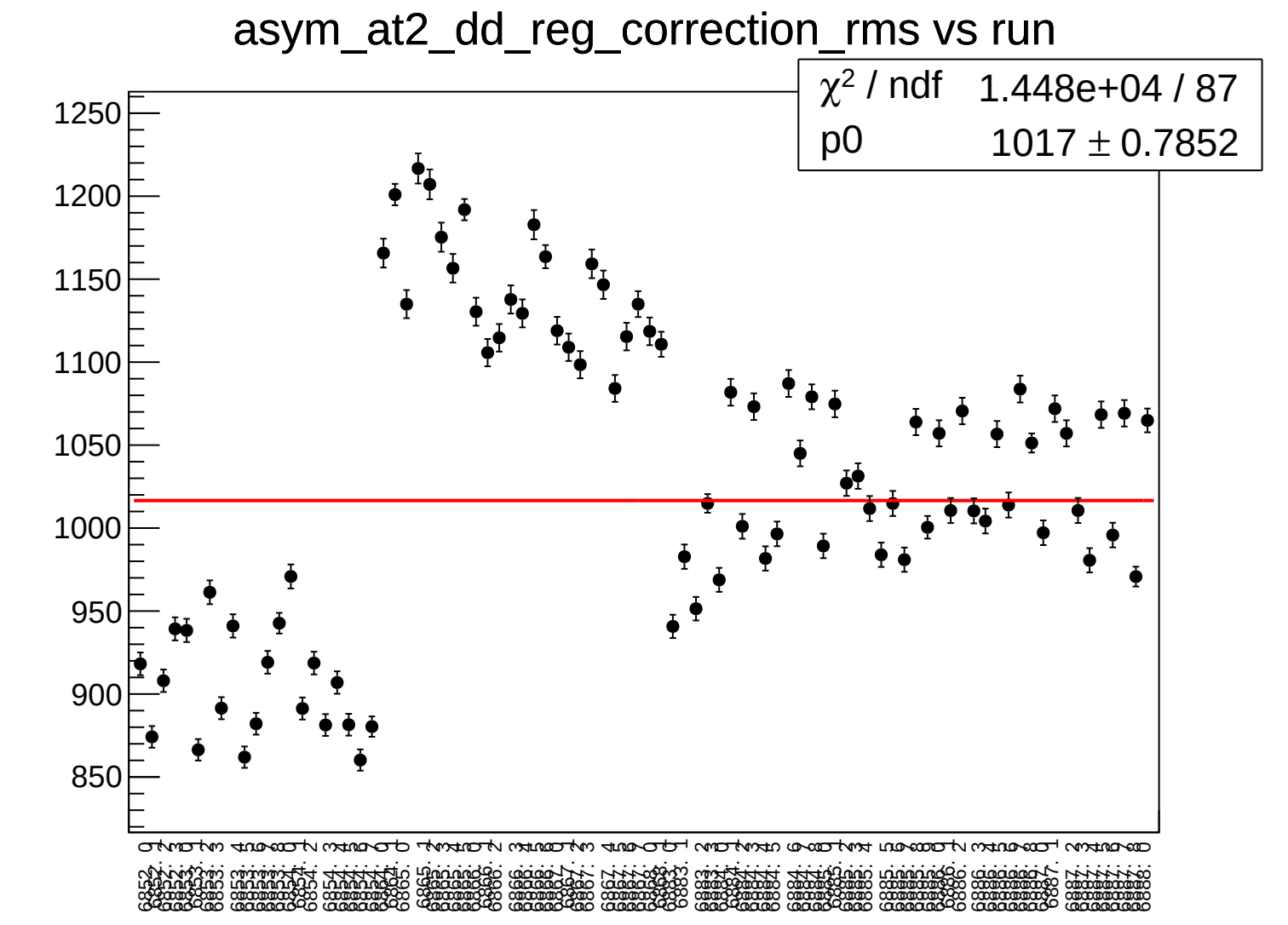

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.958e+05 / 87
p0 1.639e−10 ± 1.499e−13
1
0.8
0.6
0.4
0.2

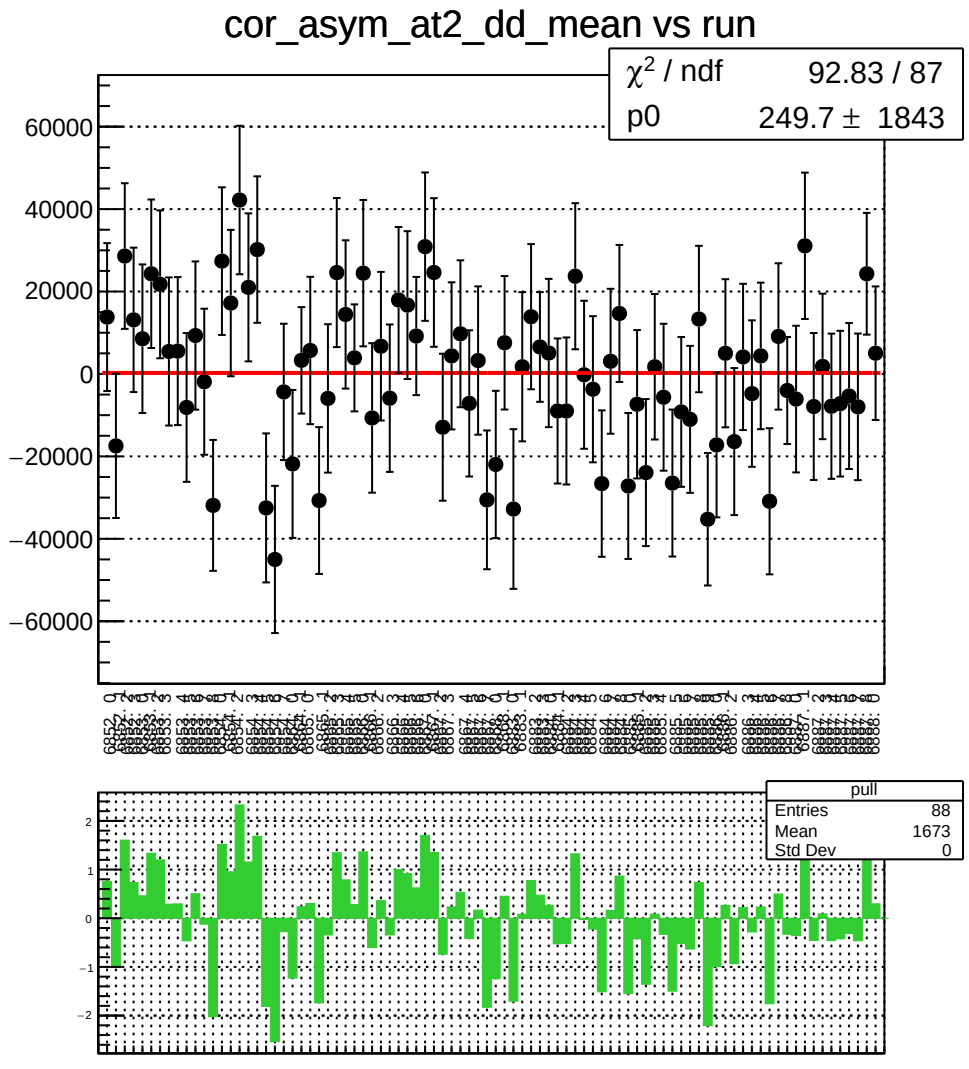

reg_asym_at2_dd_mean vs run
χ² / ndf 92.83 / 87
p0 249.9 ± 1843
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1673
Std Dev 0
2
1
0
−1
−2

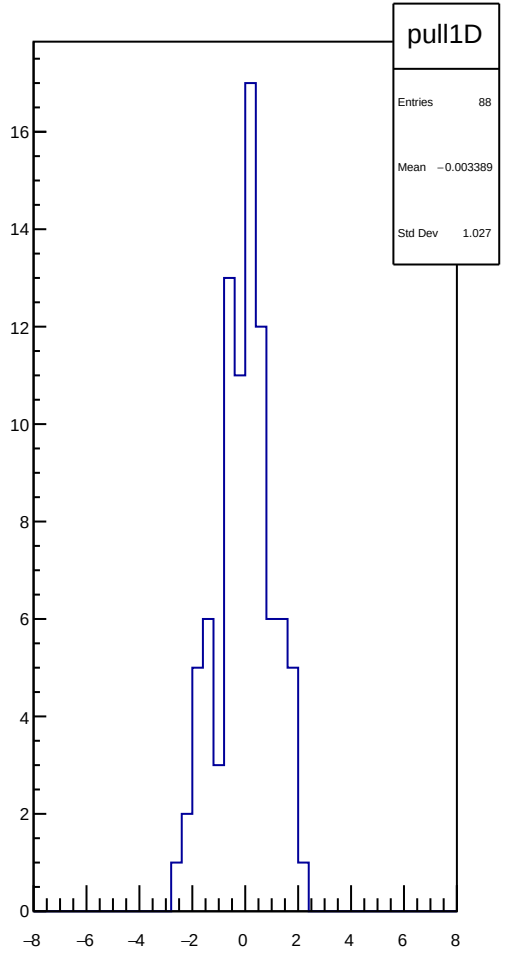

pull1D
Entries 88
Mean −0.00339
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

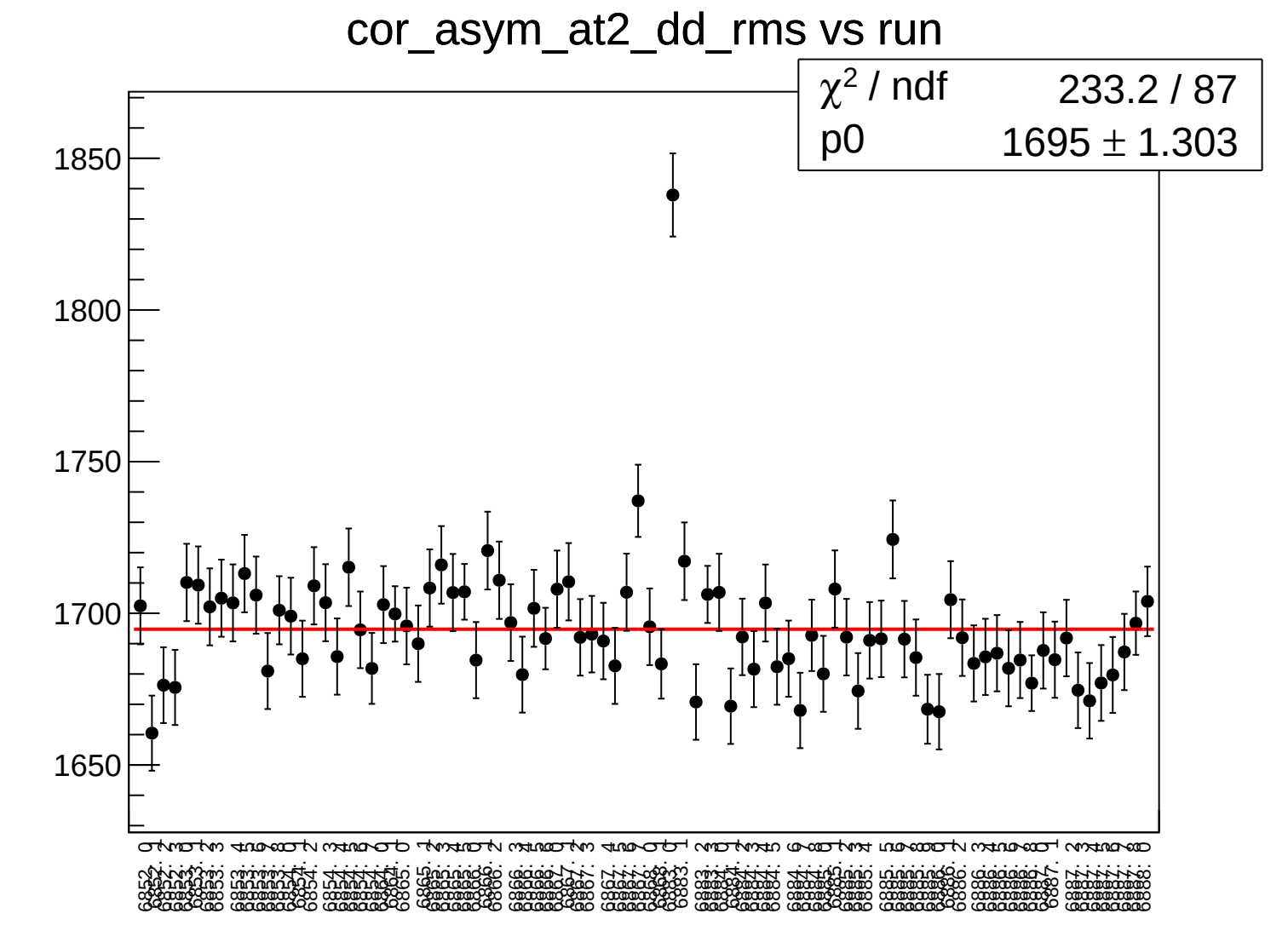

reg_asym_at2_dd_rms vs run
χ² / ndf 233.2 / 87
p0 1695 ± 1.303
1850
1800
1750
1700
1650

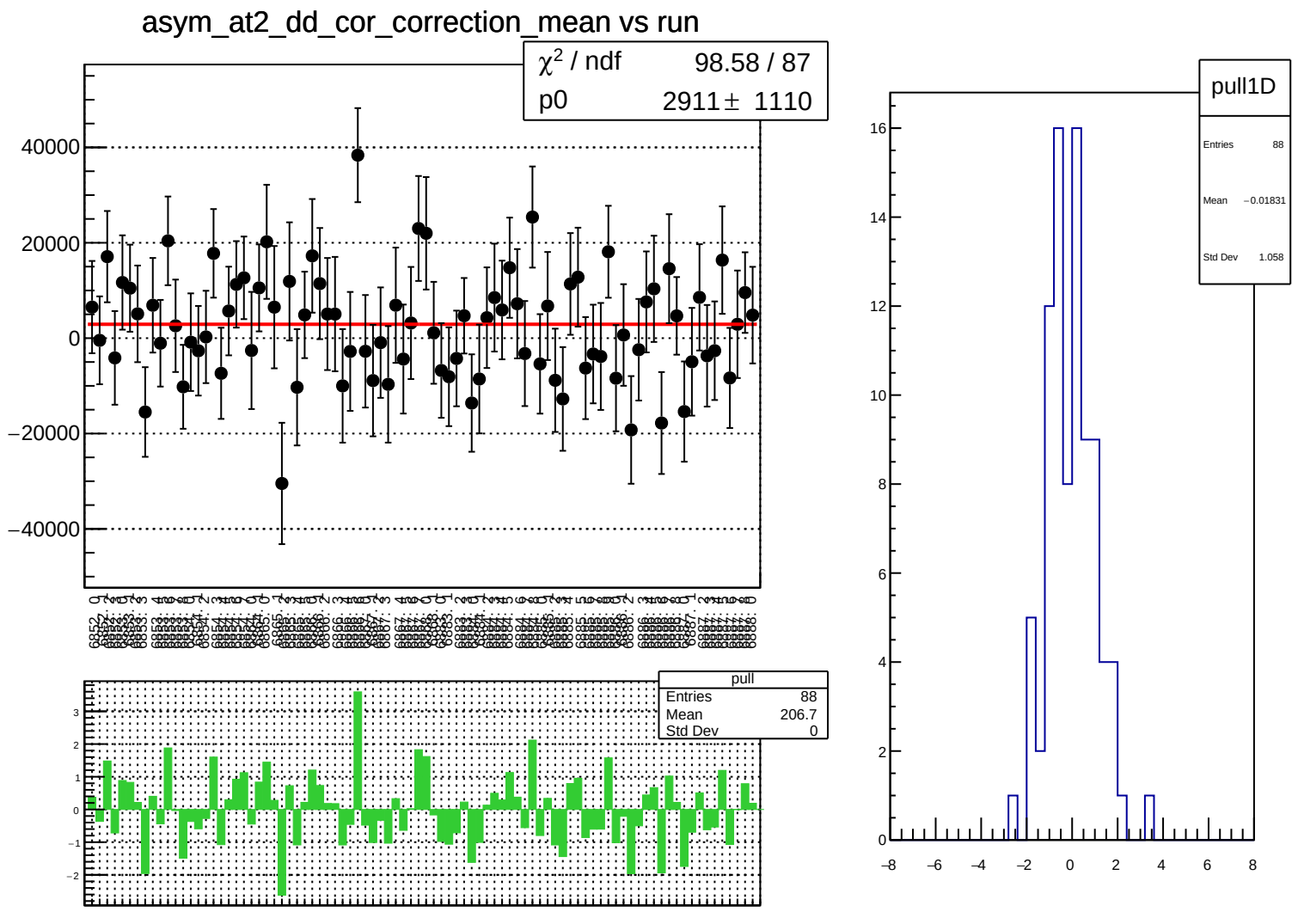

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 98.57 / 87
p0 2911 ± 1110
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 206.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0183
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

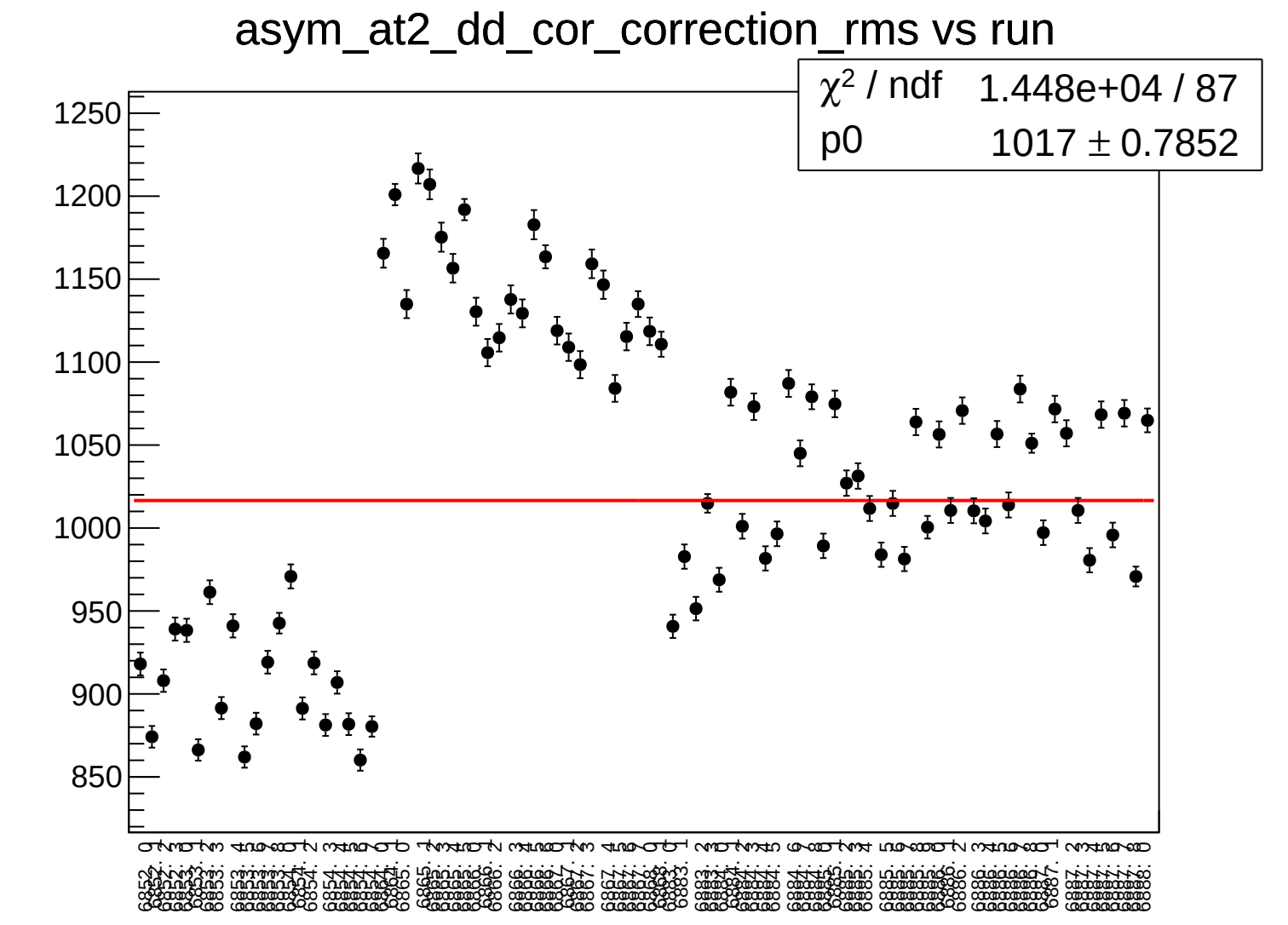

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 1.448e+04 / 87
p0 1017 ± 0.7852
1250
1200
1150
1100
1050
1000
950
900
850

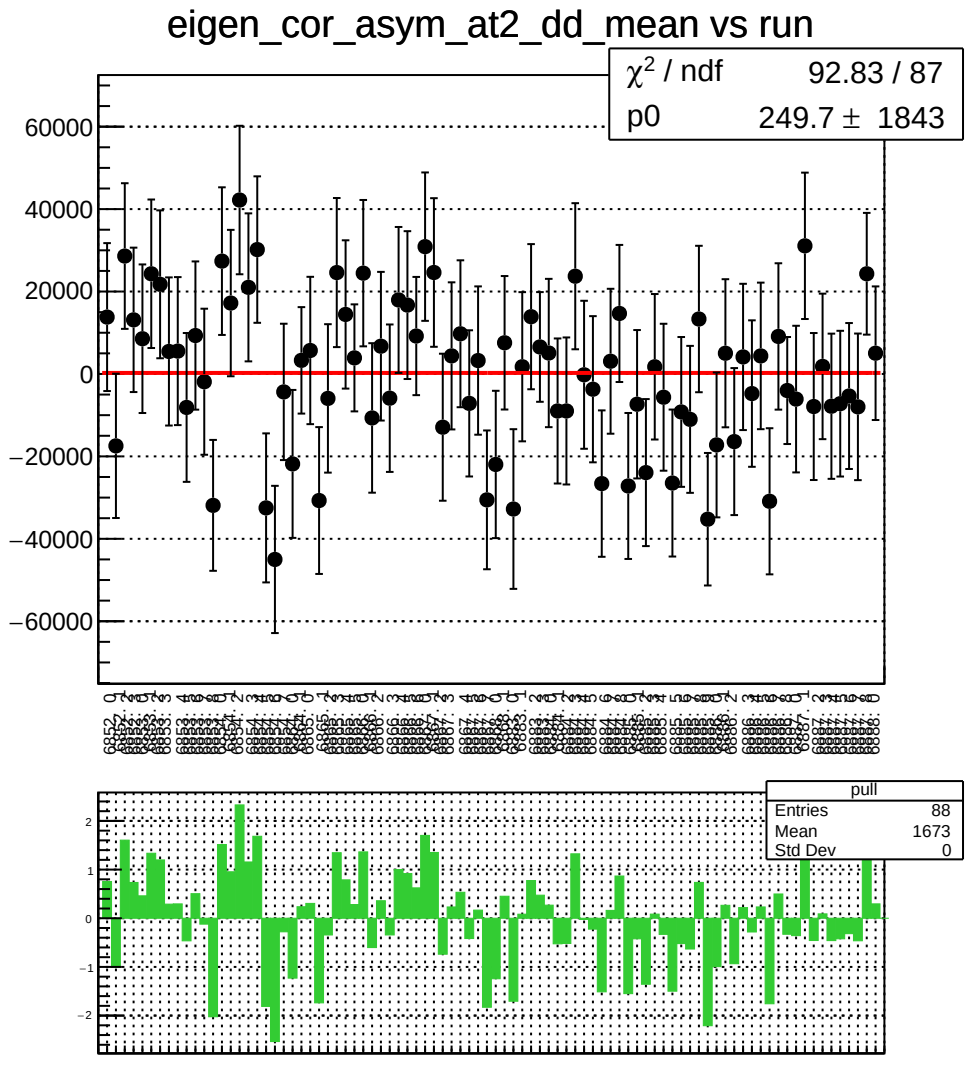

cor_asym_at2_dd_mean vs run
χ² / ndf 92.83 / 87
p0 249.7 ± 1843
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1673
Std Dev 0
2
1
0
−1
−2

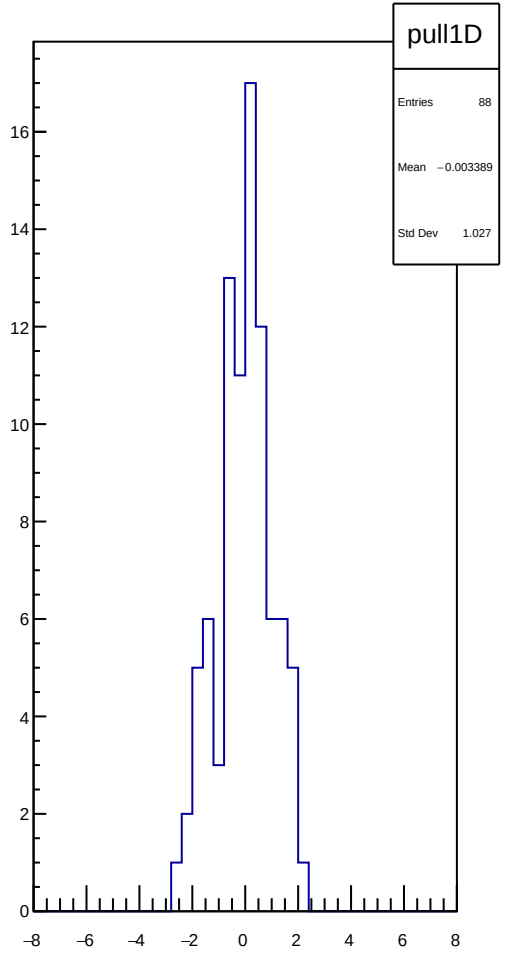

pull1D
Entries 88
Mean −0.003389
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

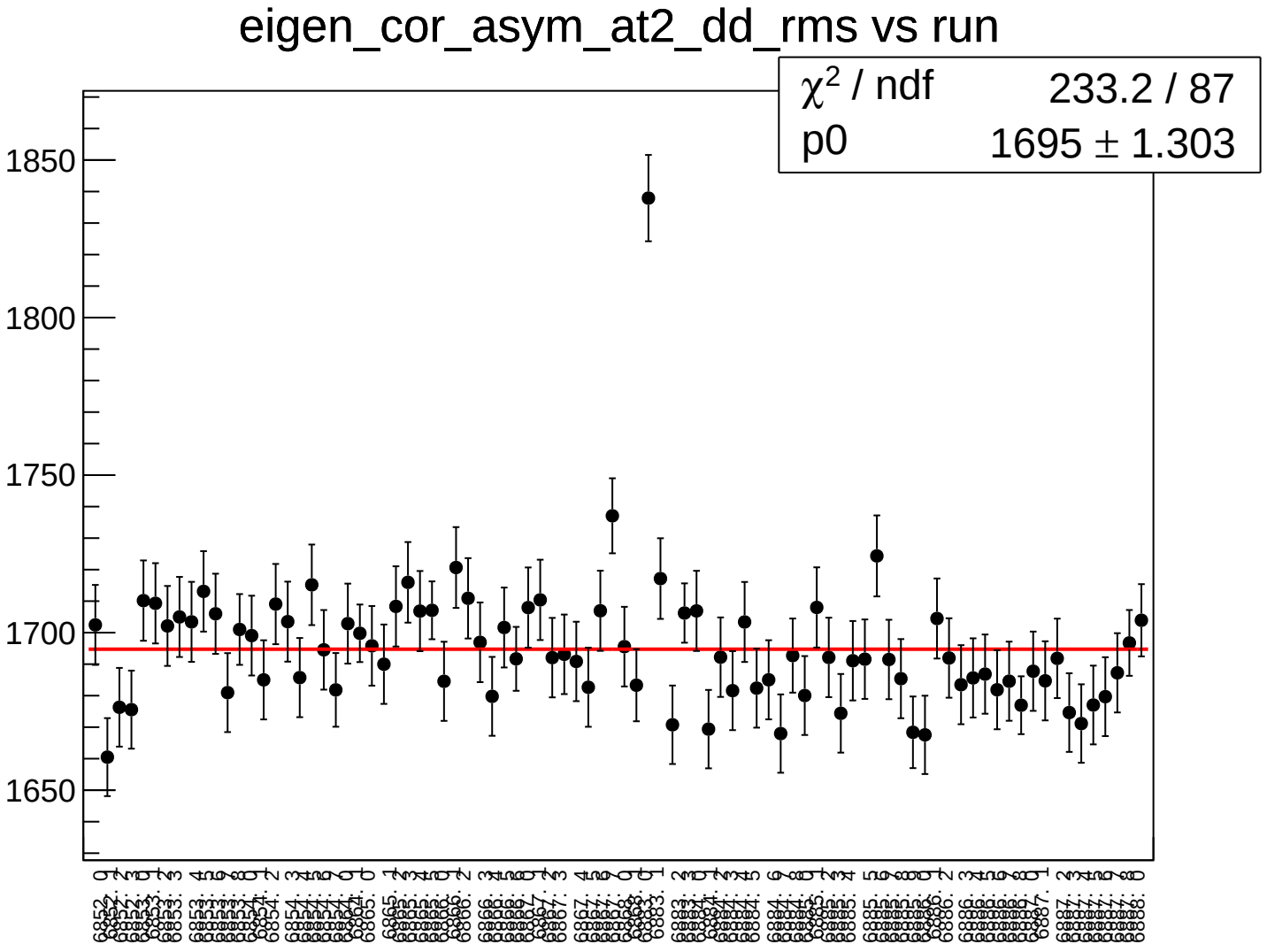

cor_asym_at2_dd_rms vs run
χ² / ndf 233.2 / 87
p0 1695 ± 1.303
1850
1800
1750
1700
1650

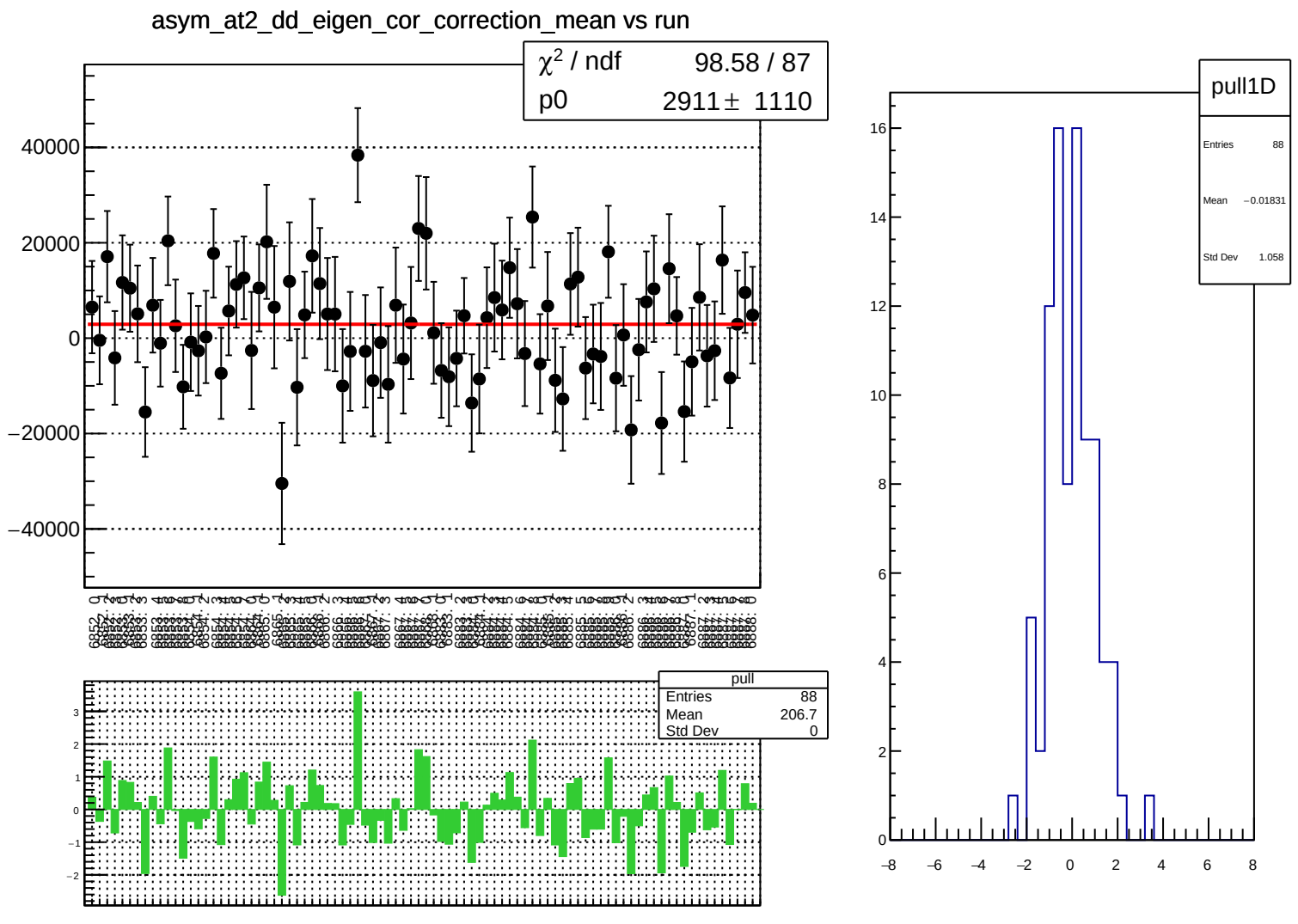

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 98.58 / 87
p0 2911 ± 1110
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 206.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01831
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

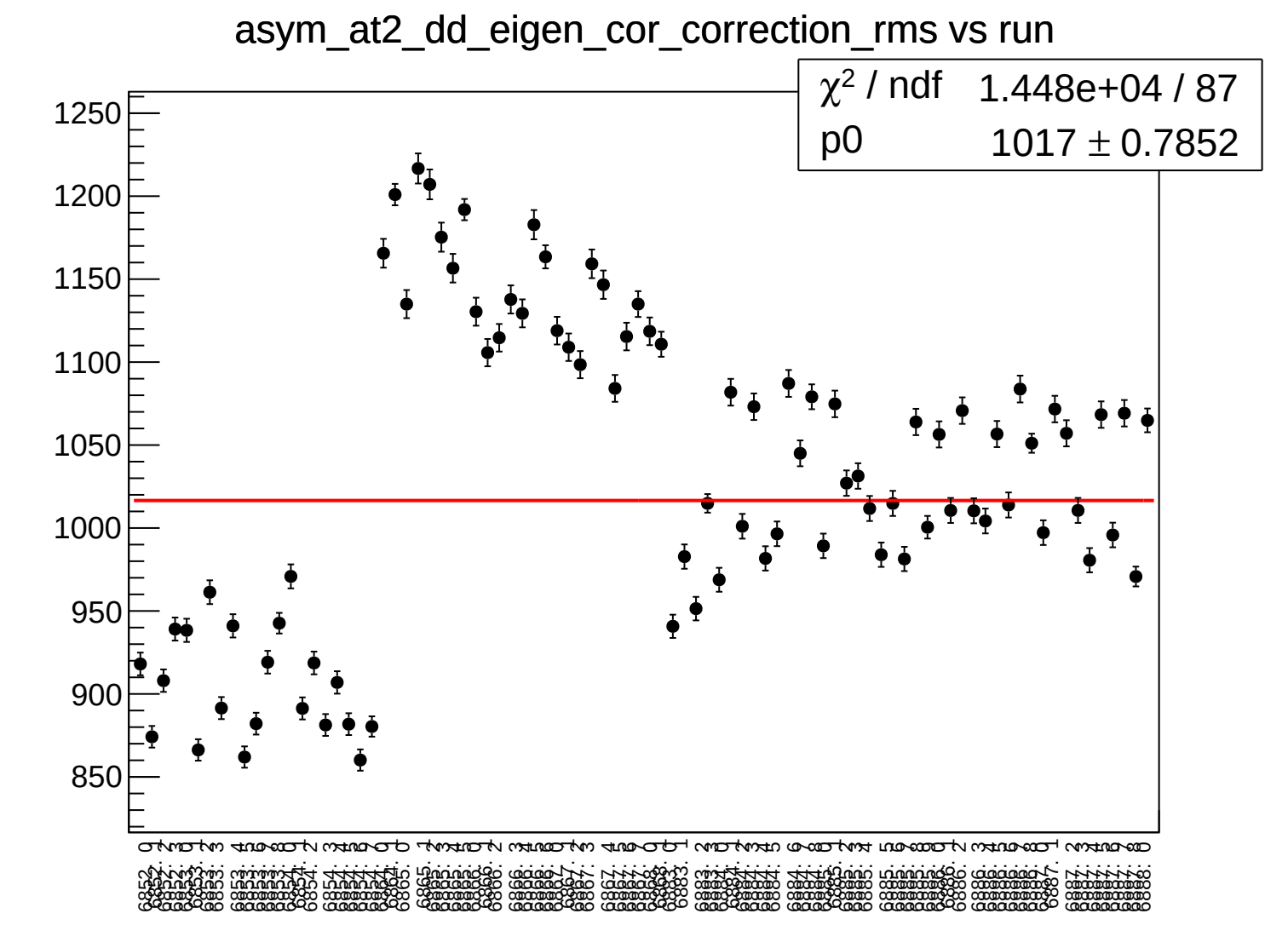

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 1.448e+04 / 87
p0 1017 ± 0.7852
1250
1200
1150
1100
1050
1000
950
900
850

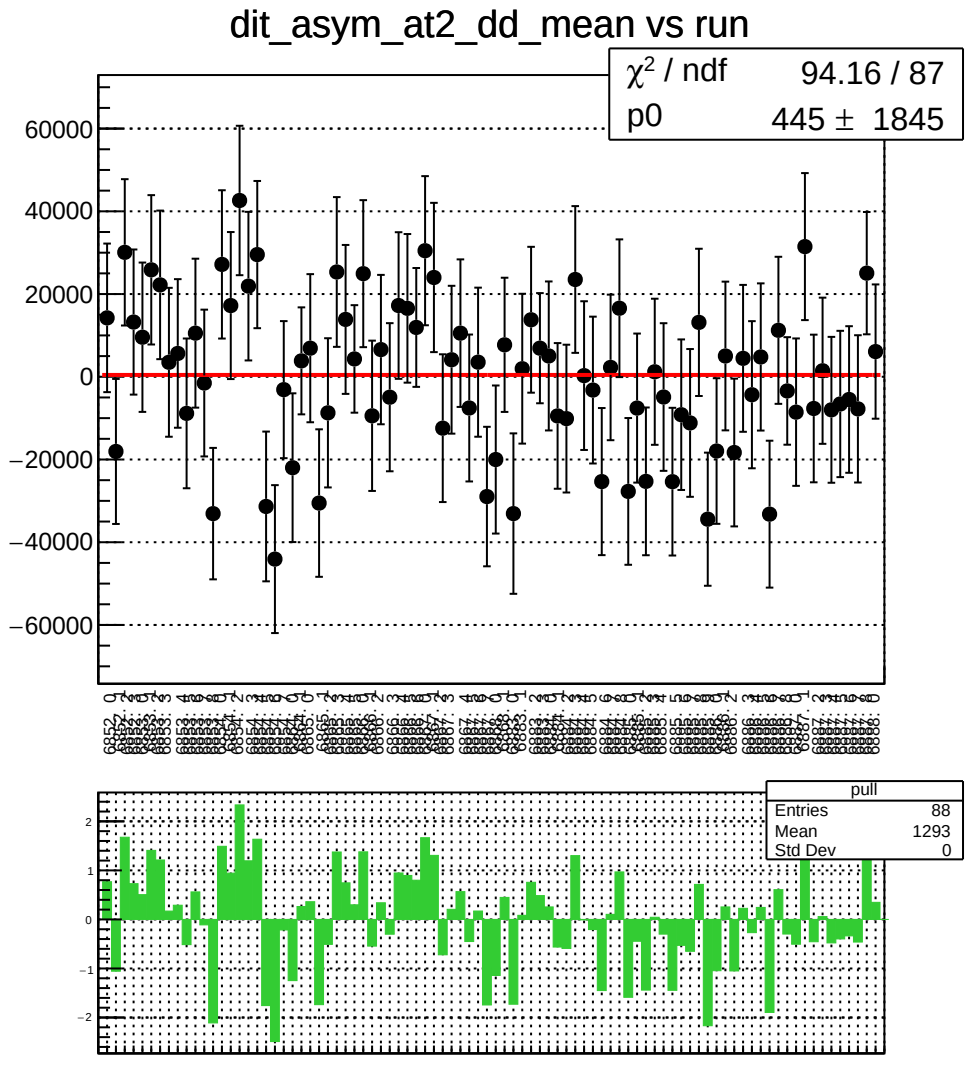

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 92.83 / 87
p0 249.7 ± 1843
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1673
Std Dev 0
2
1
0
−1
−2

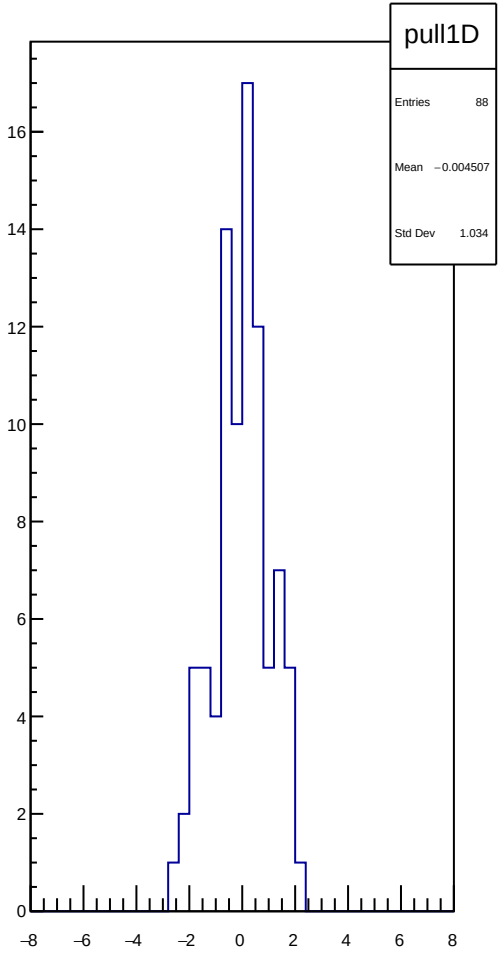

pull1D
Entries 88
Mean −0.003389
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

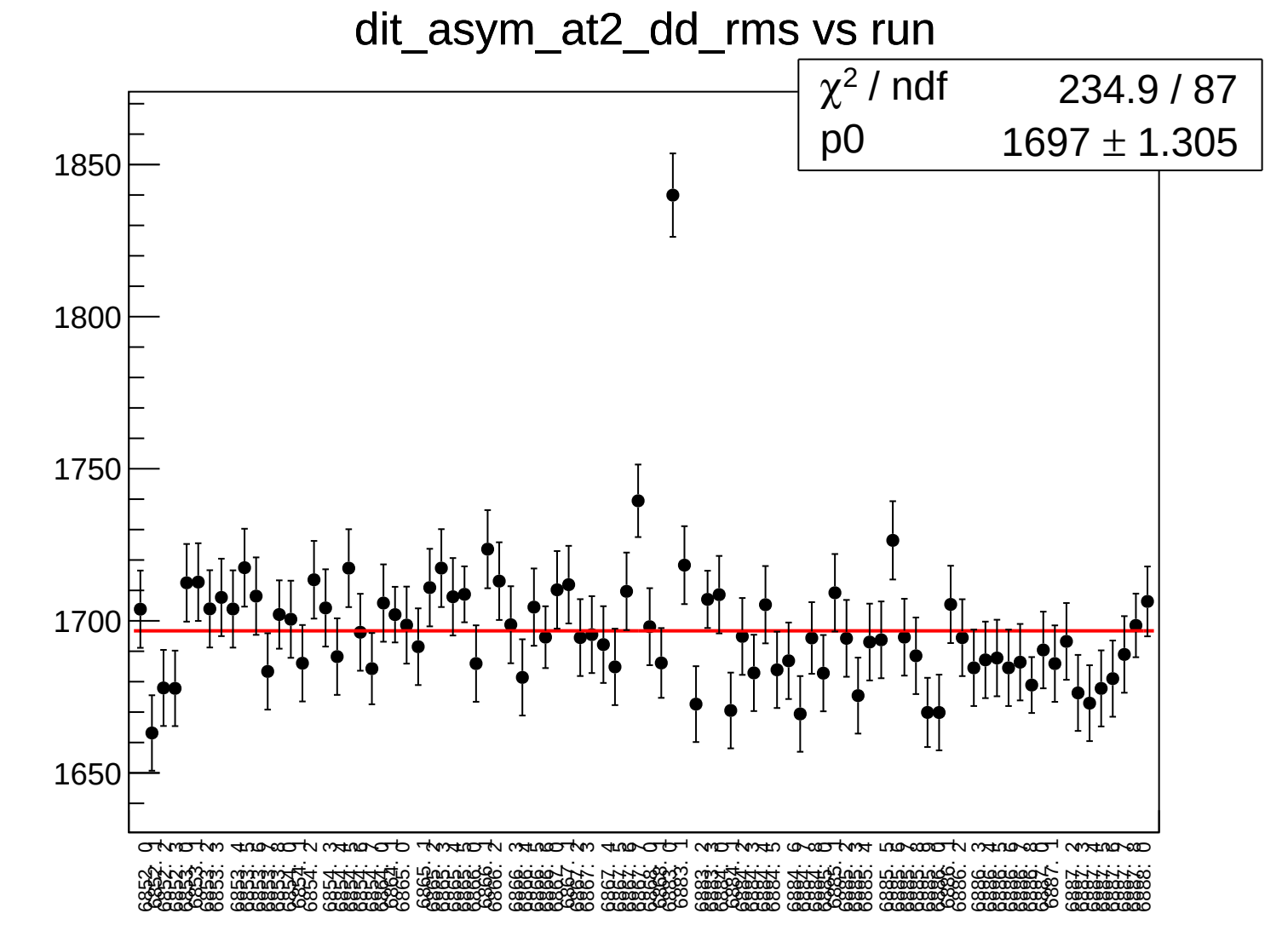

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 233.2 / 87
p0 1695 ± 1.303
1850
1800
1750
1700
1650

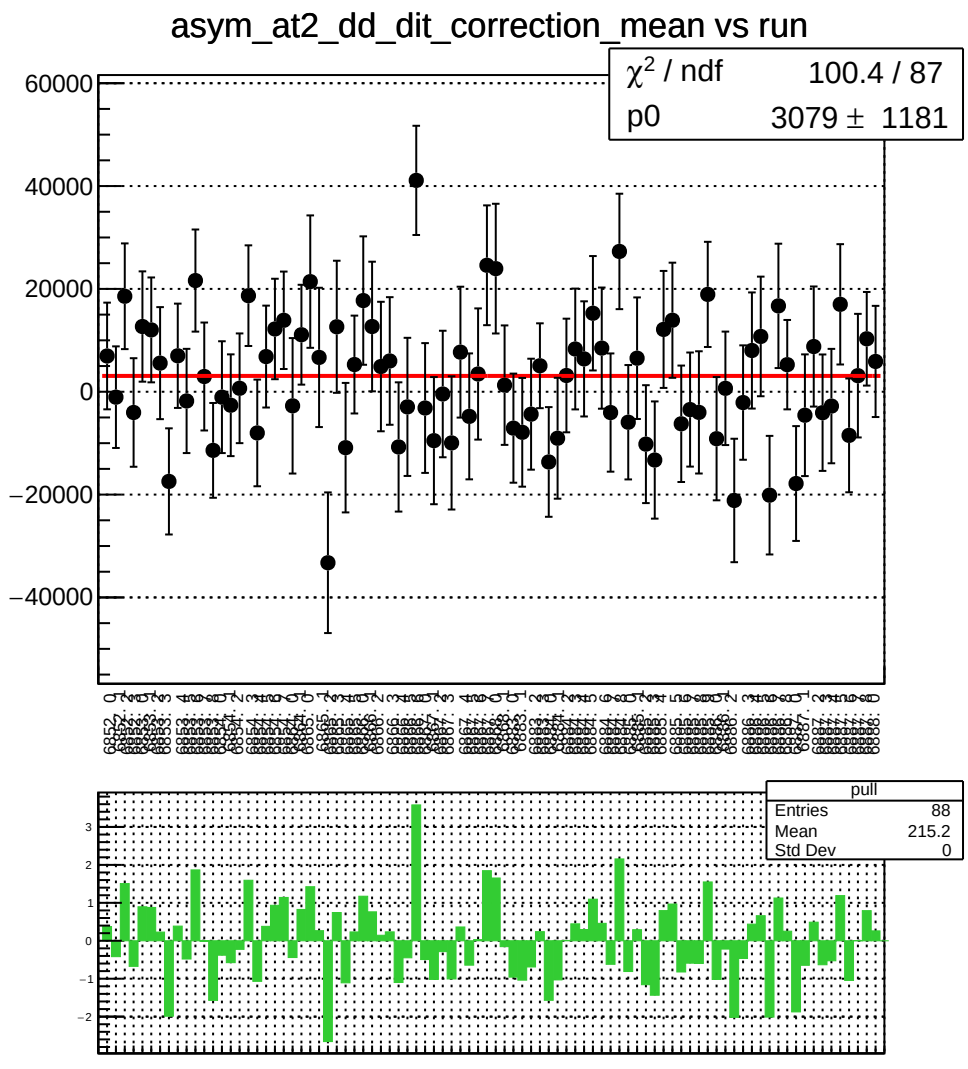

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.58 / 87
p0 2911 ± 1110
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 206.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01831
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

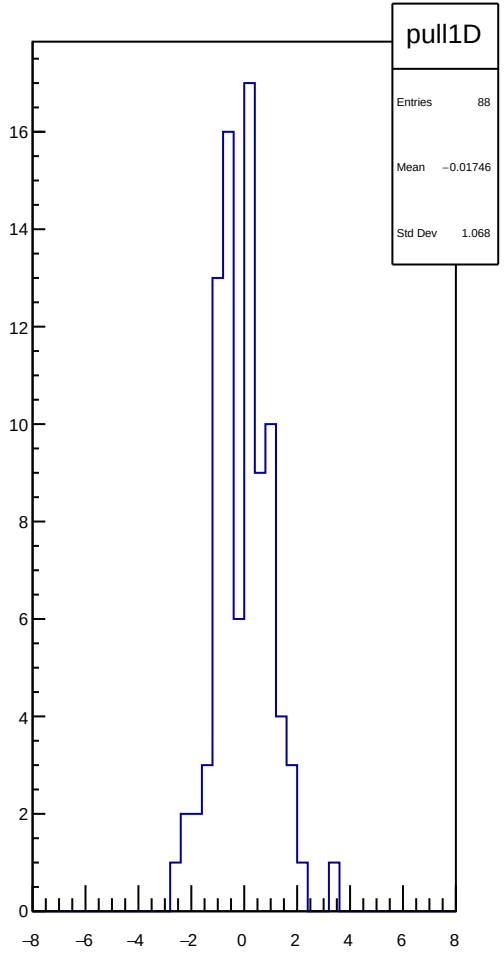

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.448e+04 / 87
p0 1017 ± 0.7852
1250
1200
1150
1100
1050
1000
950
900
850

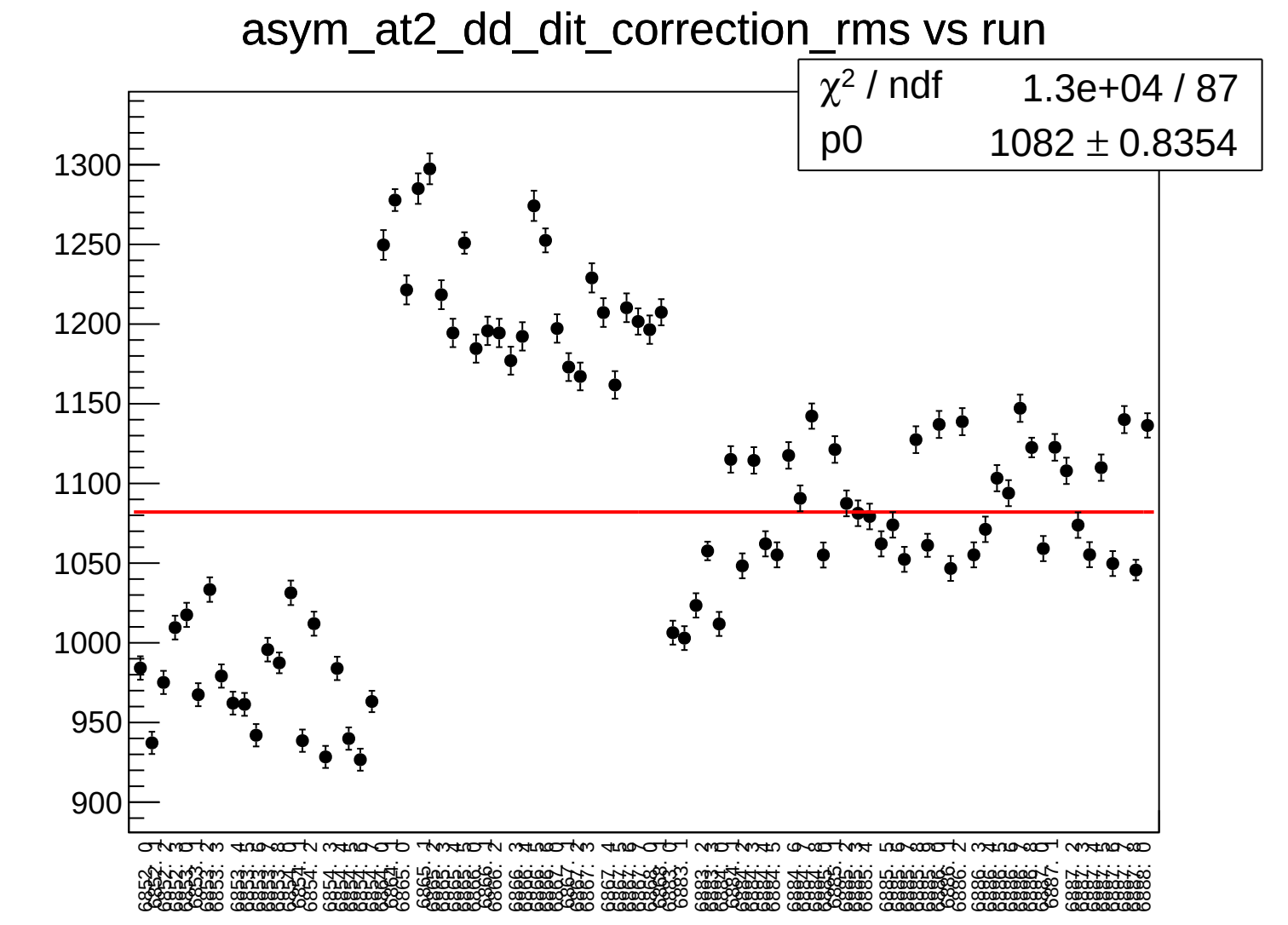

dit_asym_at2_dd_mean vs run
χ² / ndf 94.16 / 87
p0 445 ± 1845
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1293
Std Dev 0
2
1
0
−1
−2

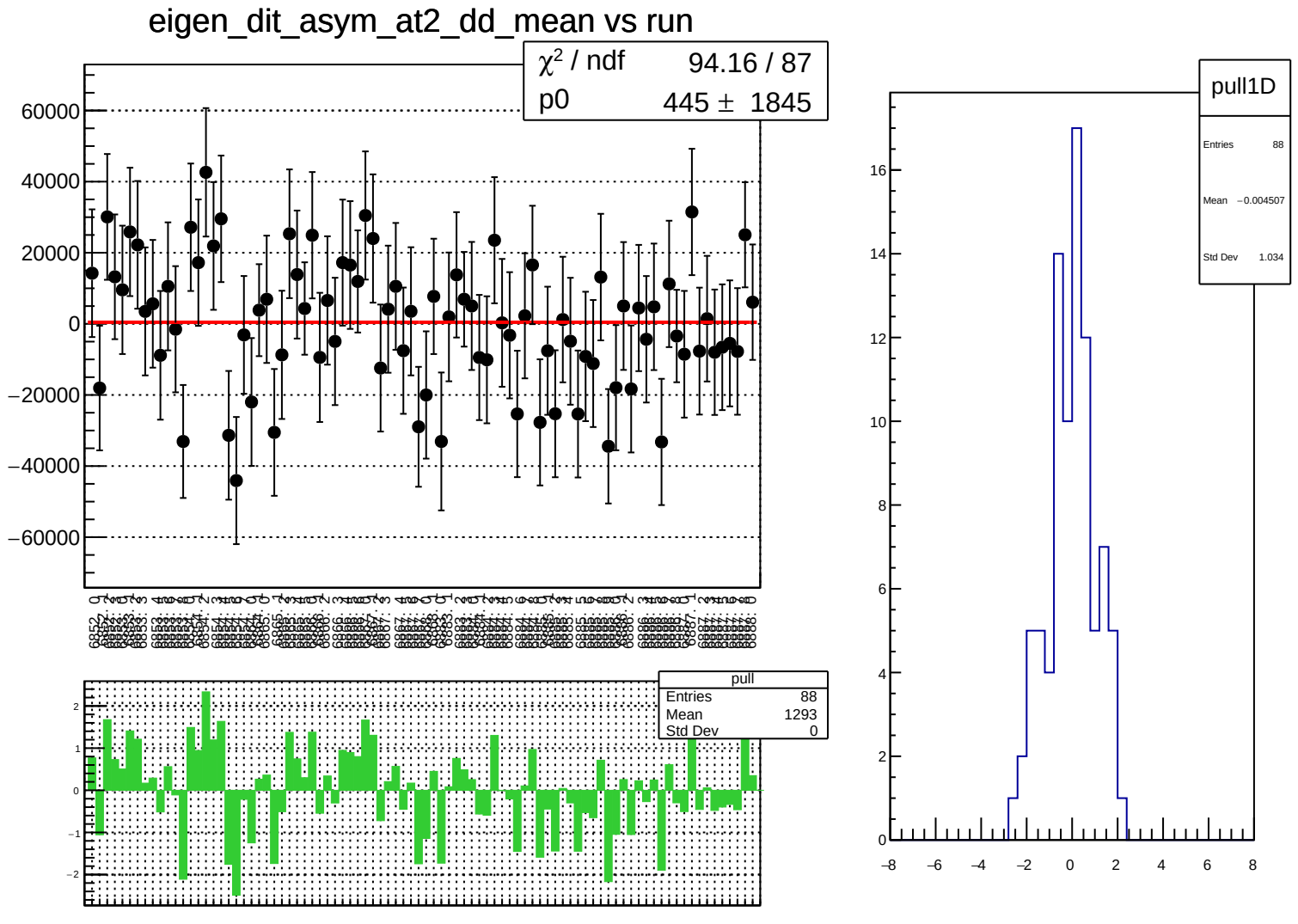

pull1D
Entries 88
Mean −0.004507
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

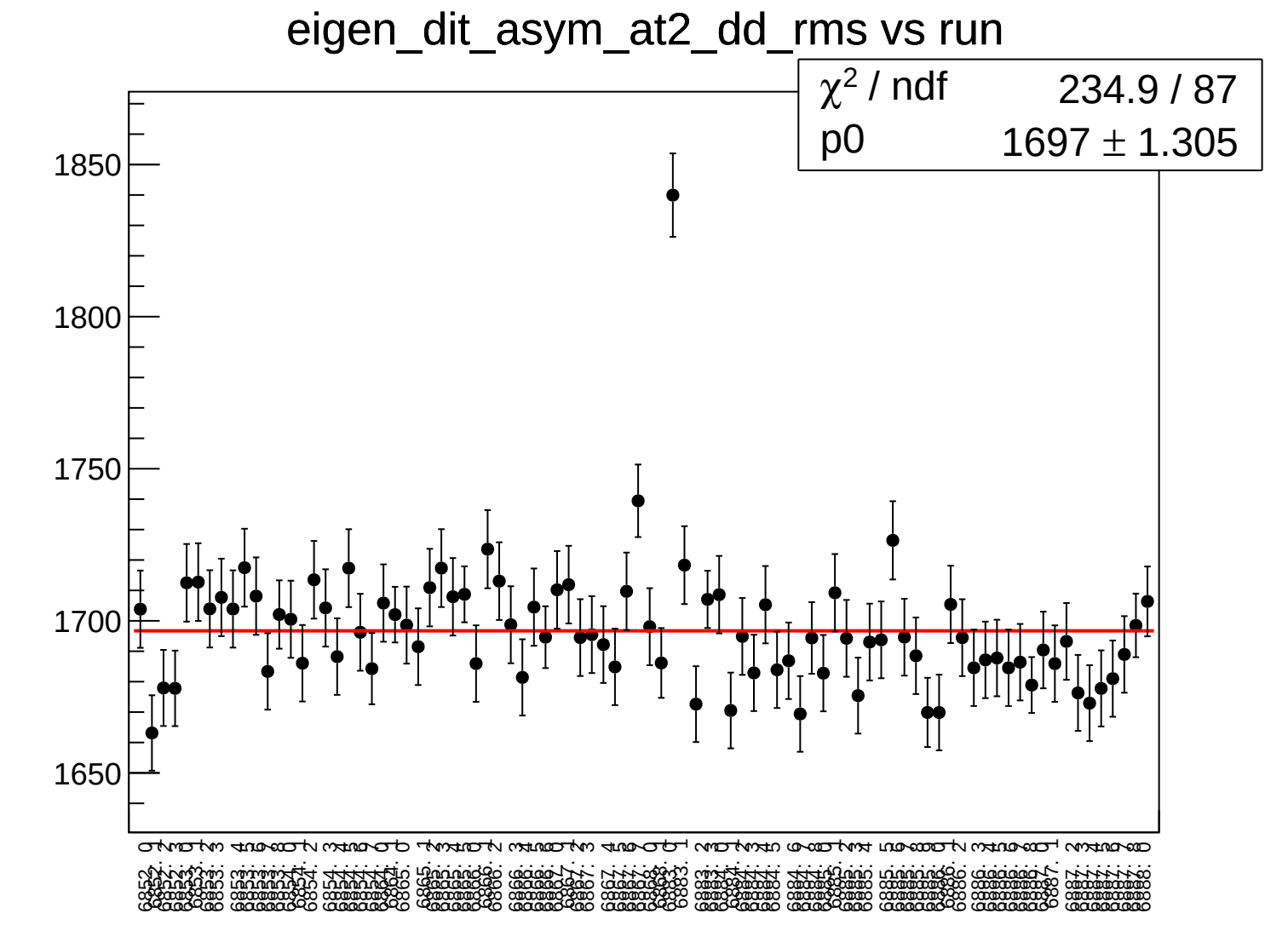

dit_asym_at2_dd_rms vs run
χ² / ndf 234.9 / 87
p0 1697 ± 1.305
1850
1800
1750
1700
1650

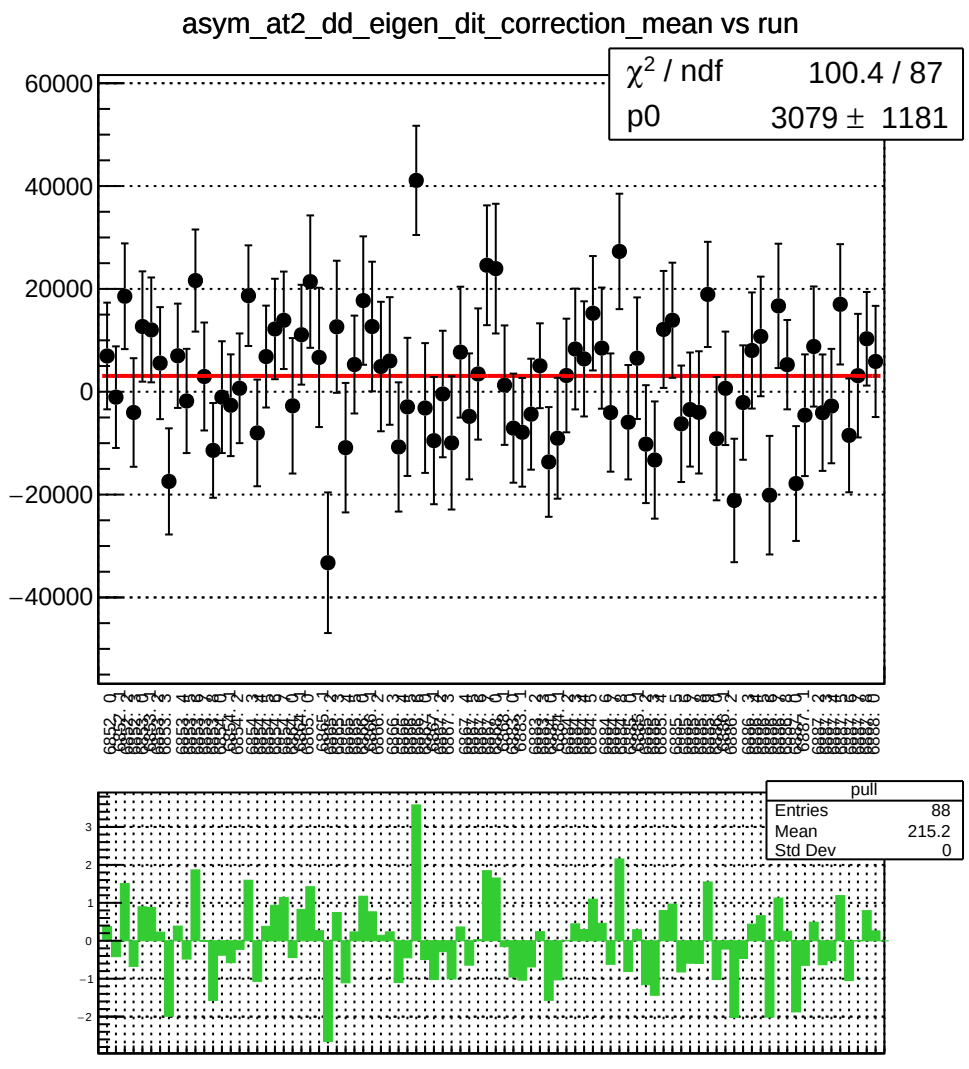

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 100.4 / 87
p0 3079 ± 1181
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 215.2
Std Dev 0
3
2
1
0
−1
−2

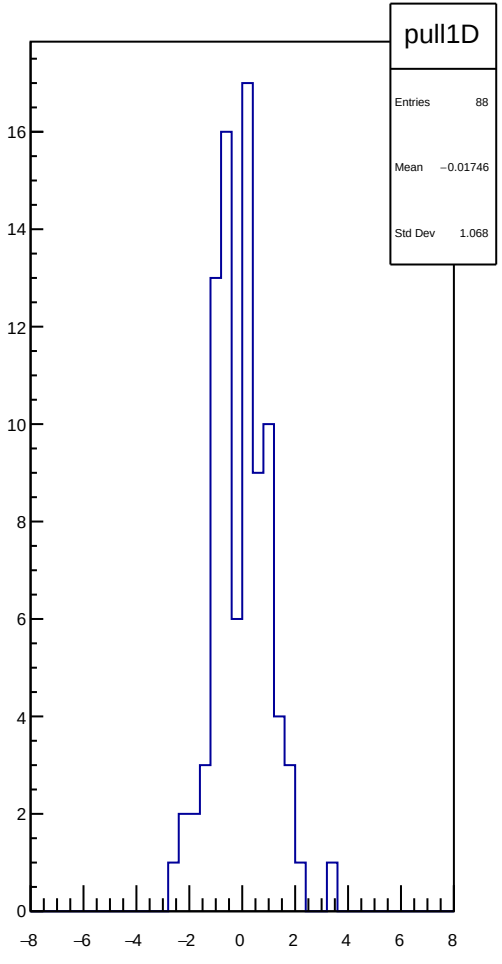

pull1D
Entries 88
Mean −0.01746
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

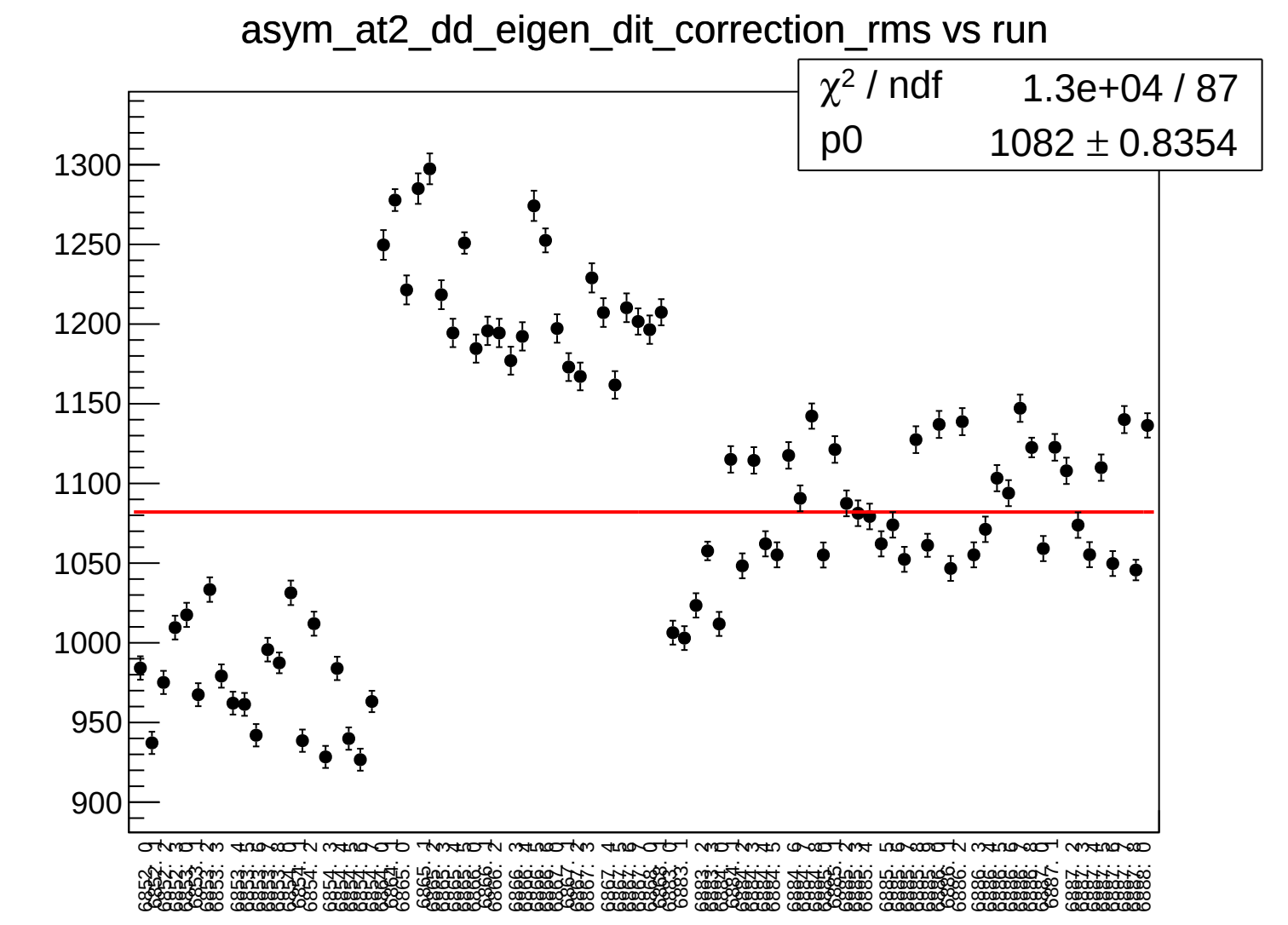

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 1.3e+04 / 87
p0 1082 ± 0.8354
1300
1250
1200
1150
1100
1050
1000
950
900

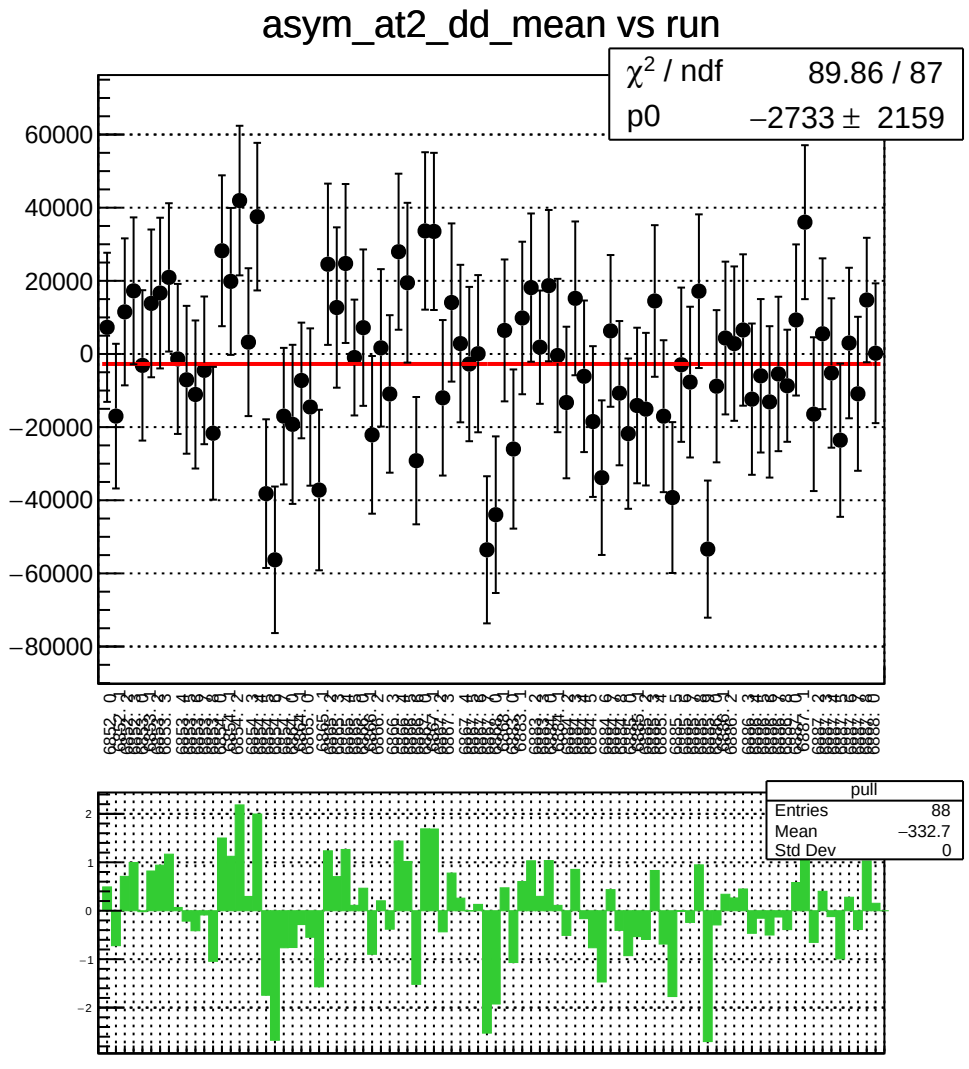

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 94.16 / 87
p0 445 ± 1845
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1293
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.004507
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

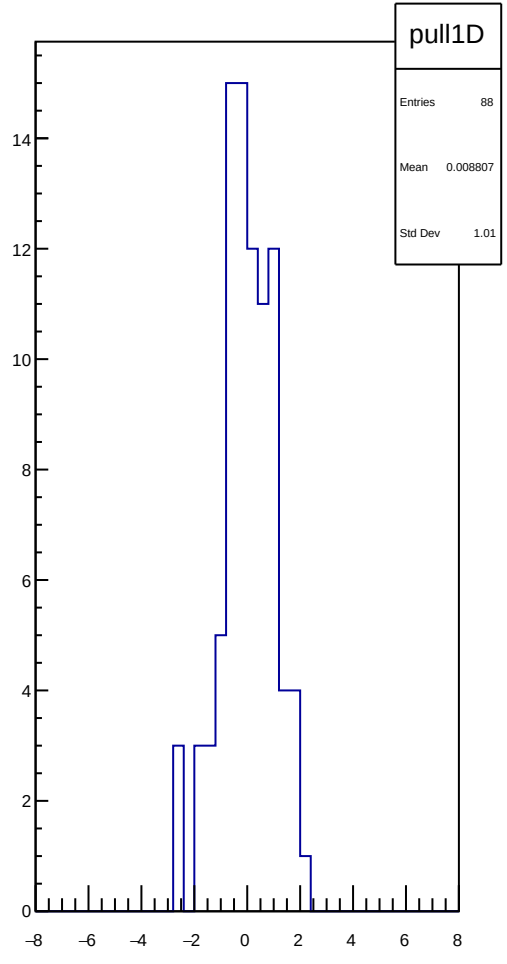

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 234.9 / 87
p0 1697 ± 1.305
1850
1800
1750
1700
1650

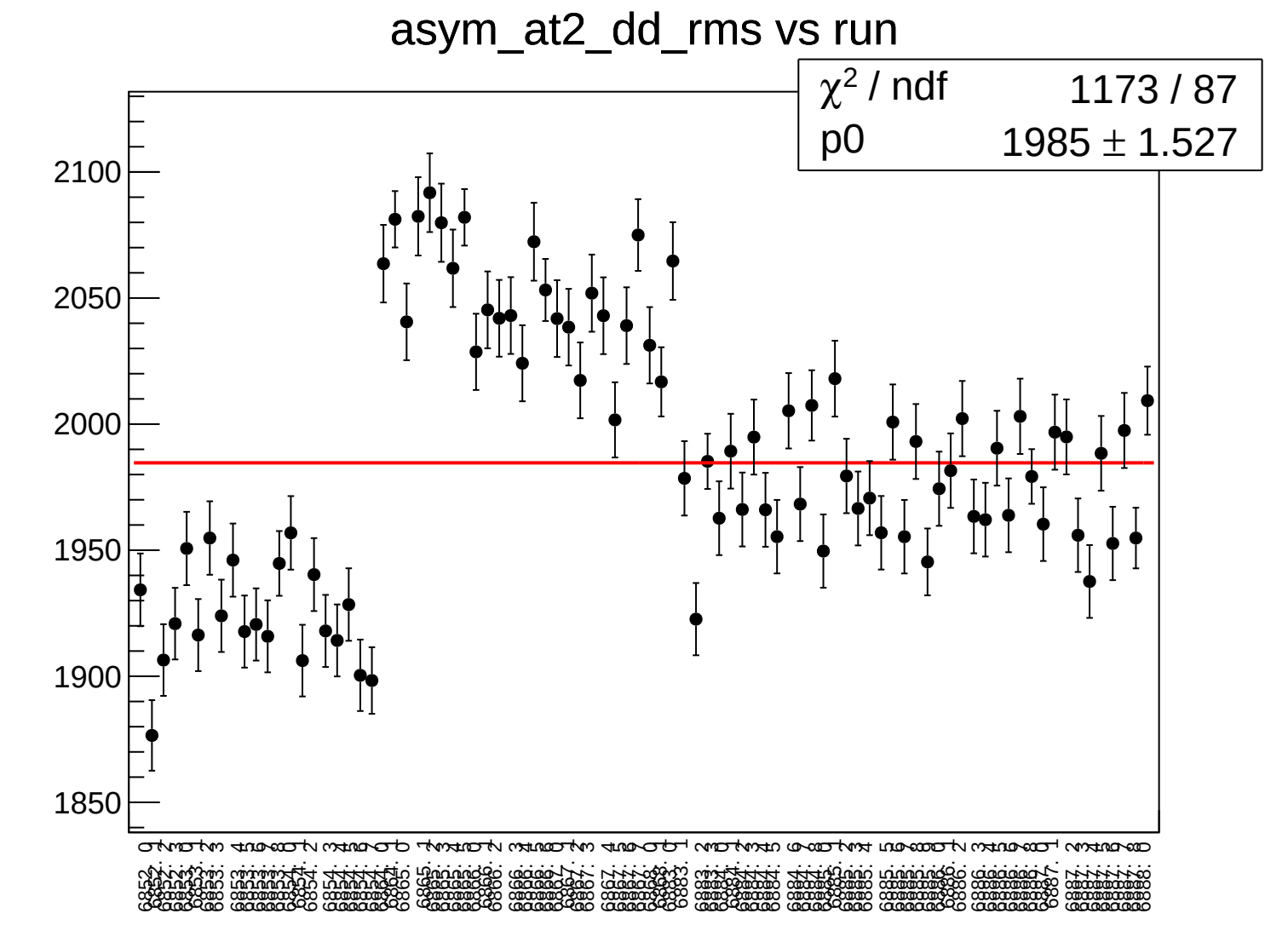

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 100.4 / 87
p0 3079 ± 1181
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 215.2
Std Dev 0
3
2
1
0
−1
−2

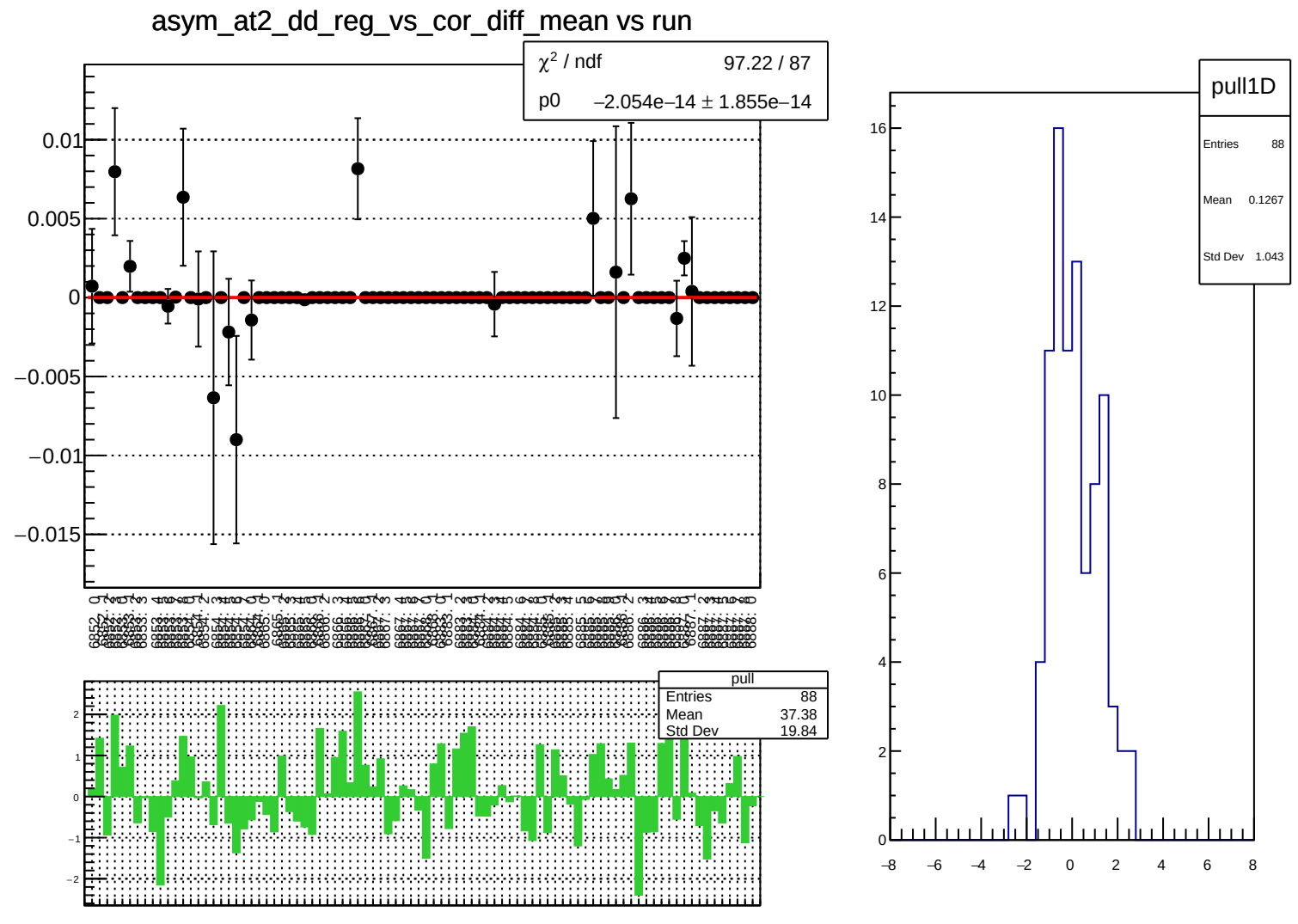

pull1D
Entries 88
Mean −0.01746
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

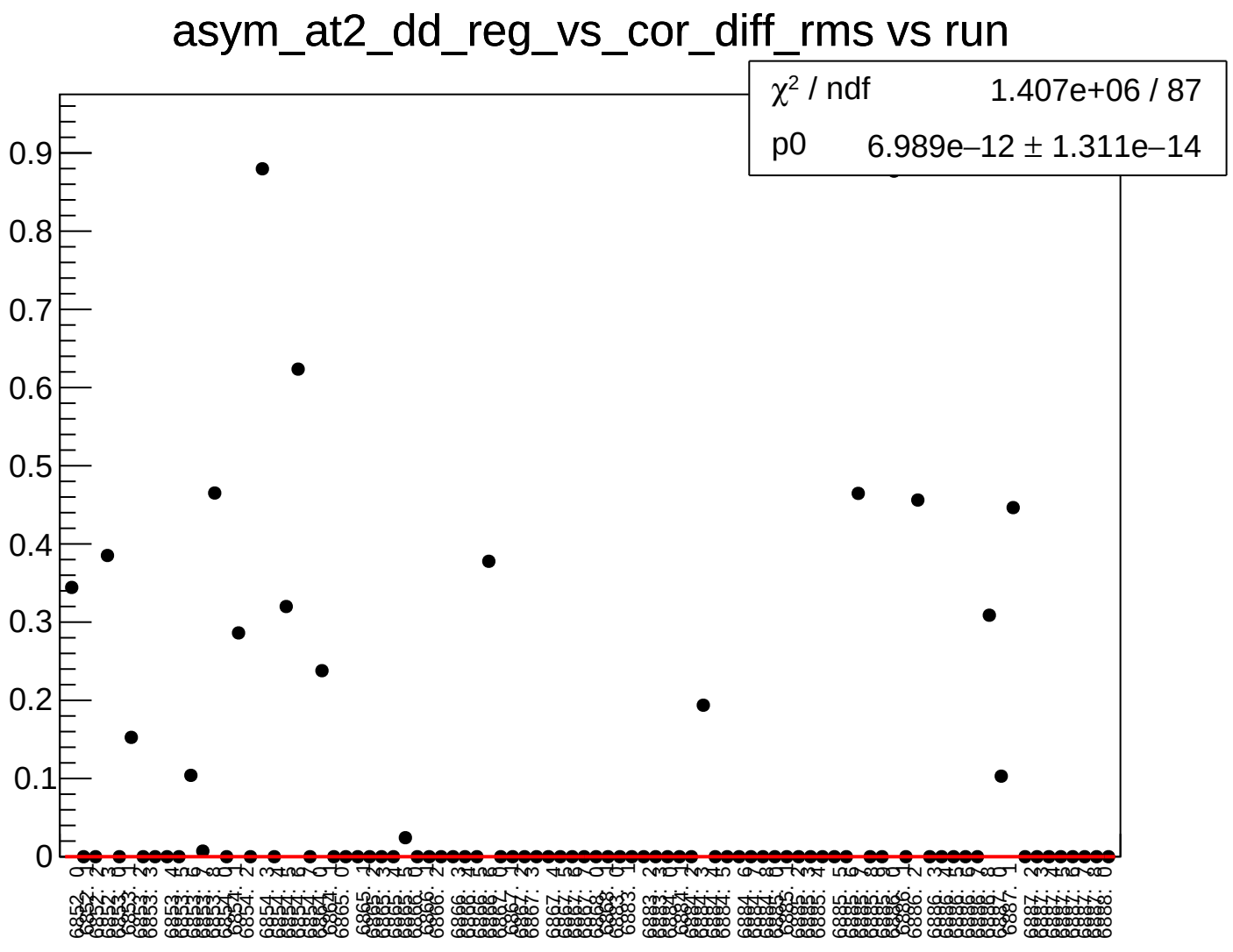

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.3e+04 / 87
p0 1082 ± 0.8354
1300
1250
1200
1150
1100
1050
1000
950
900

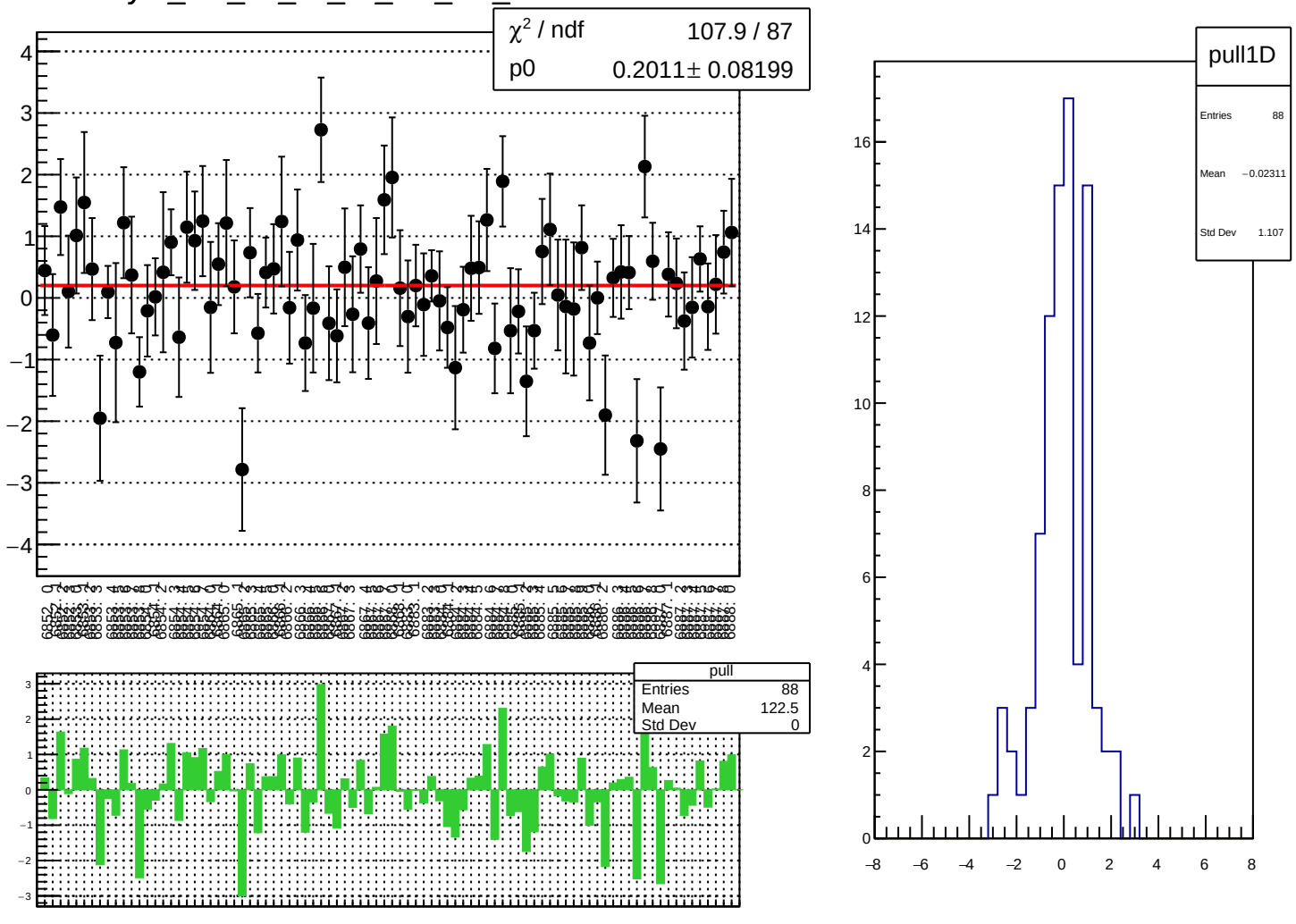

asym_at2_dd_mean vs run
χ² / ndf 89.86 / 87
p0 −2733 ± 2159
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −332.7
Std Dev 0
2
1
0
−1
−2

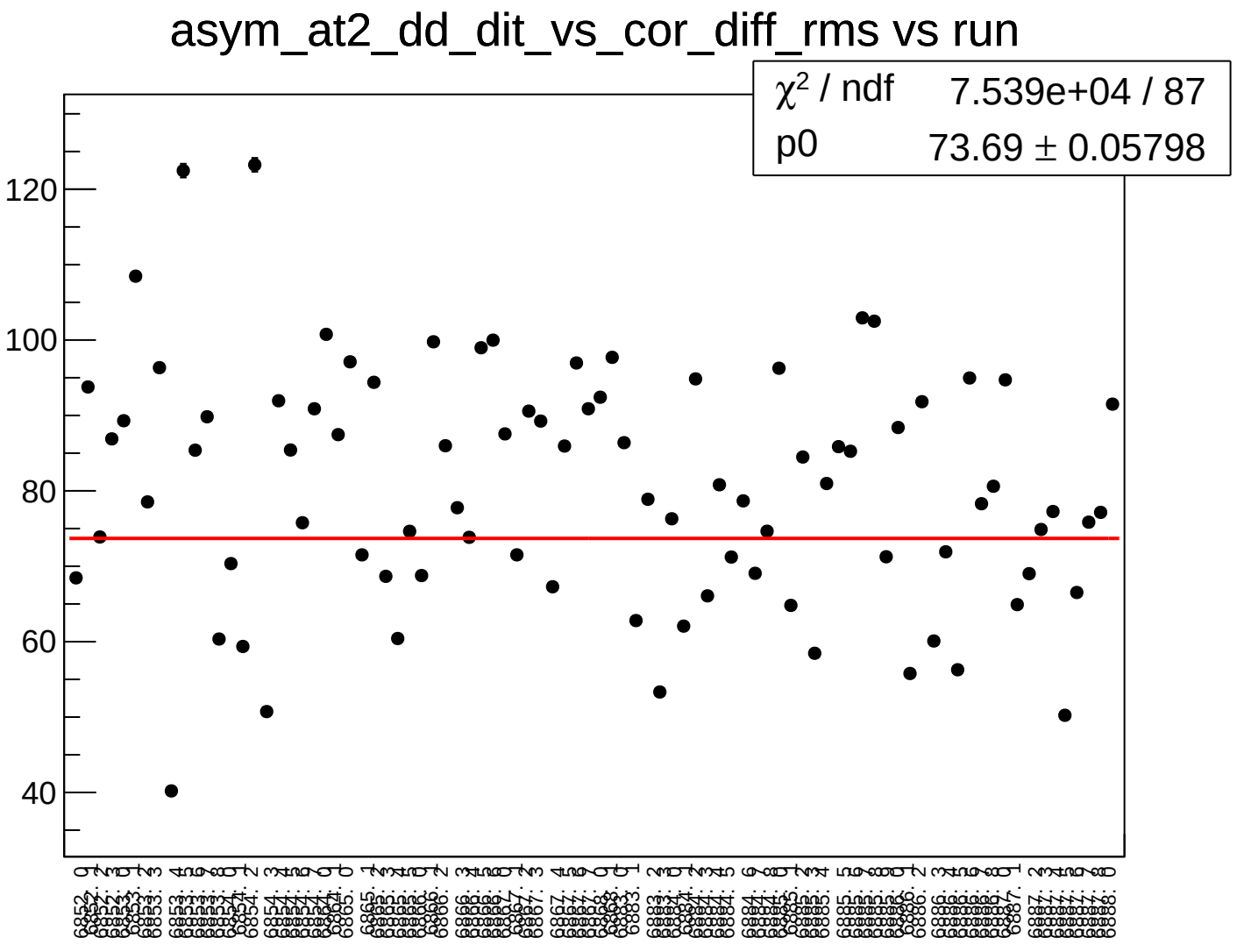

pull1D
Entries 88
Mean 0.008807
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

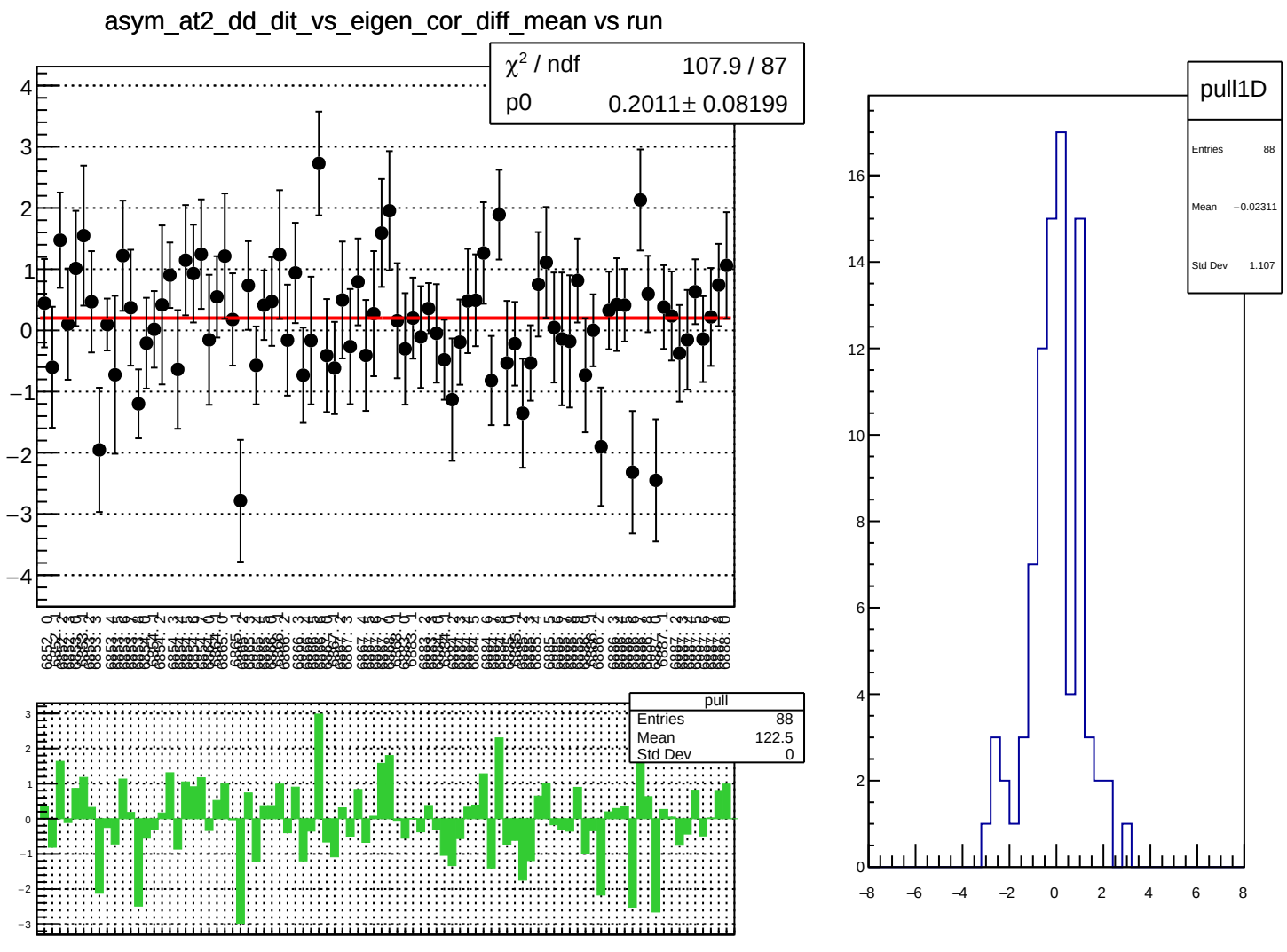

asym_at2_dd_rms vs run
χ^2 / ndf 1173 / 87
p0 1985 ± 1.527
2100
2050
2000
1950
1900
1850

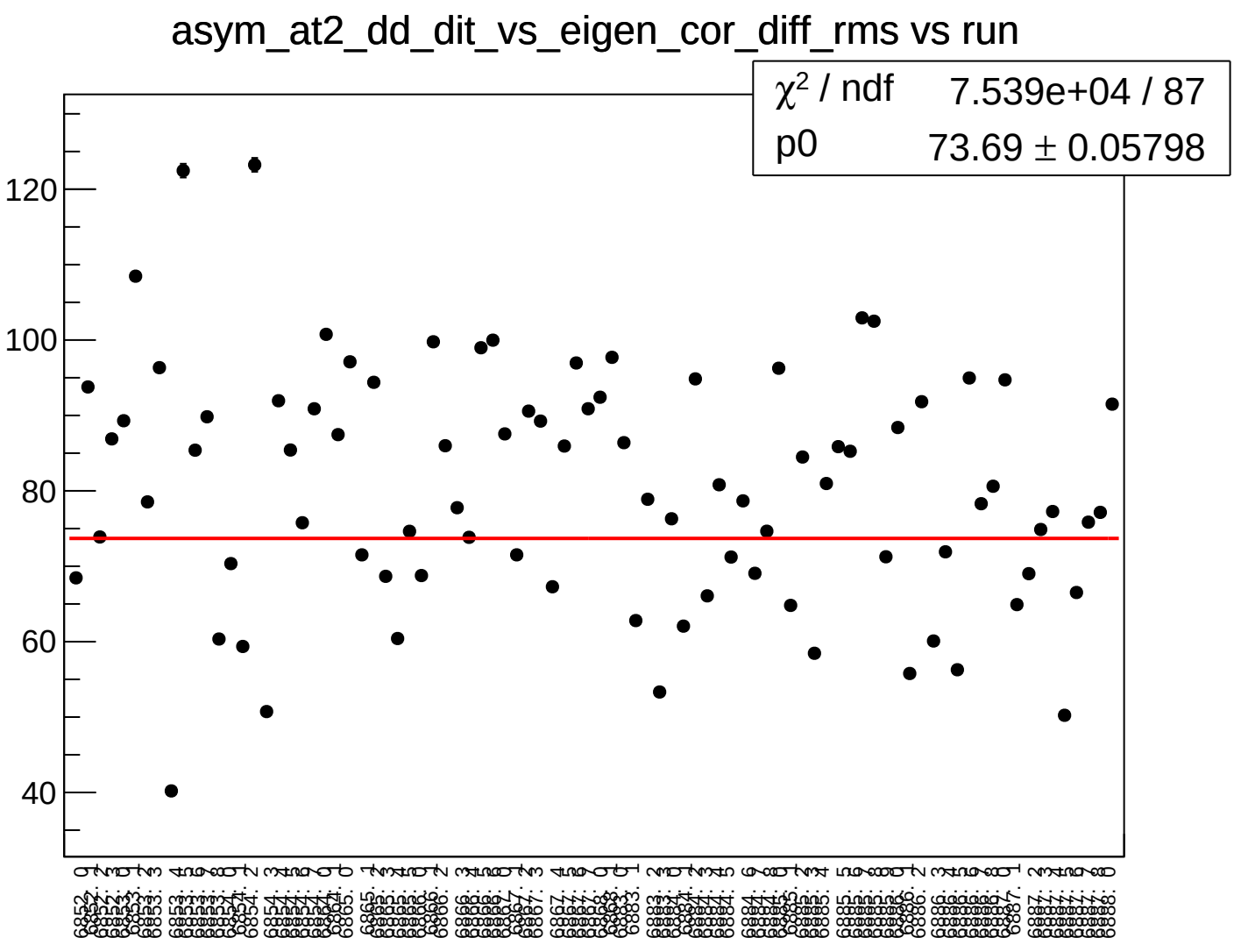

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.22 / 87
p0 −2.054e−14 ± 1.855e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 37.38
Std Dev 19.84
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.1267
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

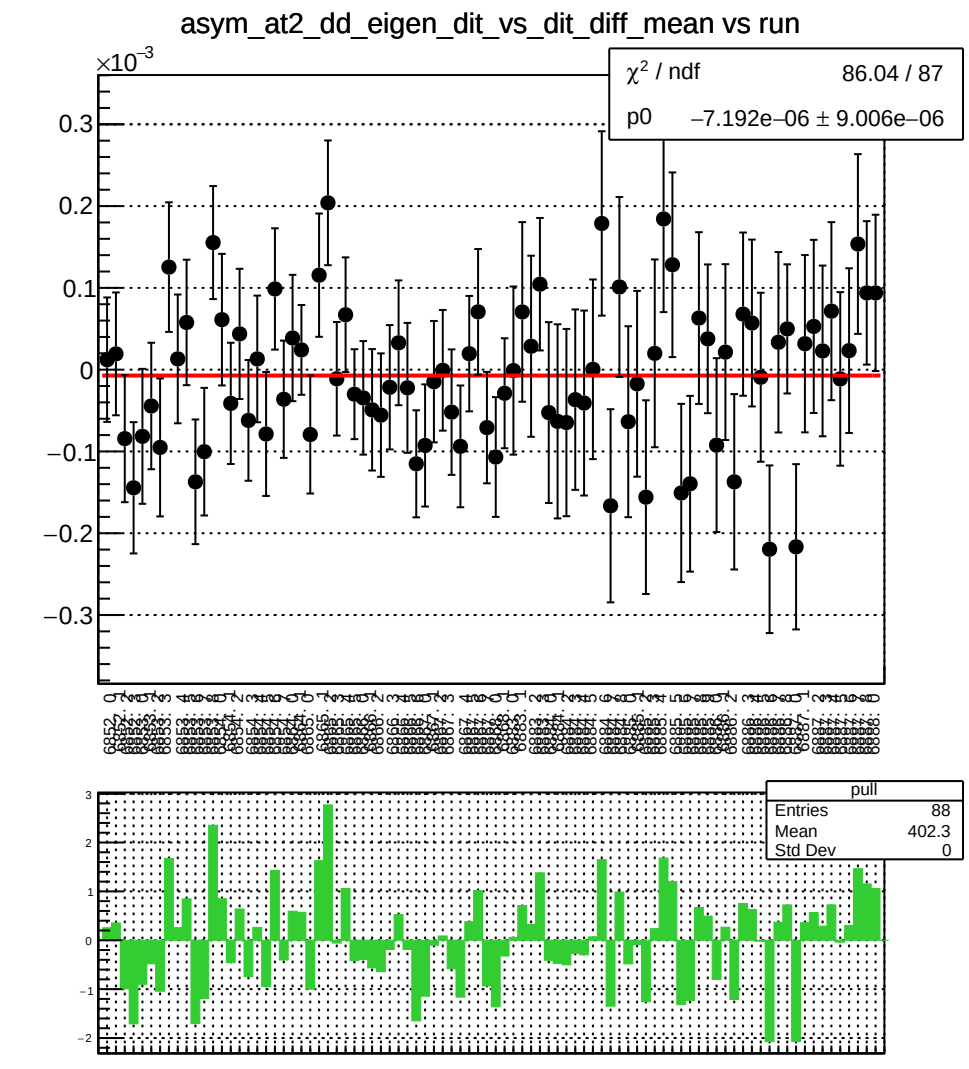

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.407e+06 / 87
p0 6.989e−12 ± 1.311e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

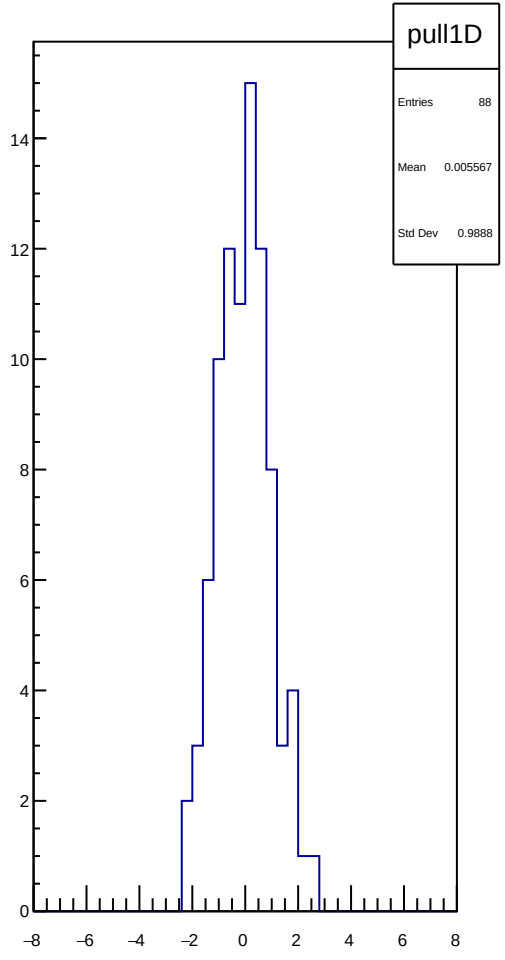

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.9 / 87
p0 0.2011± 0.08199
pull
Entries 88
Mean 122.5
Std Dev 0
pull1D
Entries 88
Mean −0.02311
Std Dev 1.107

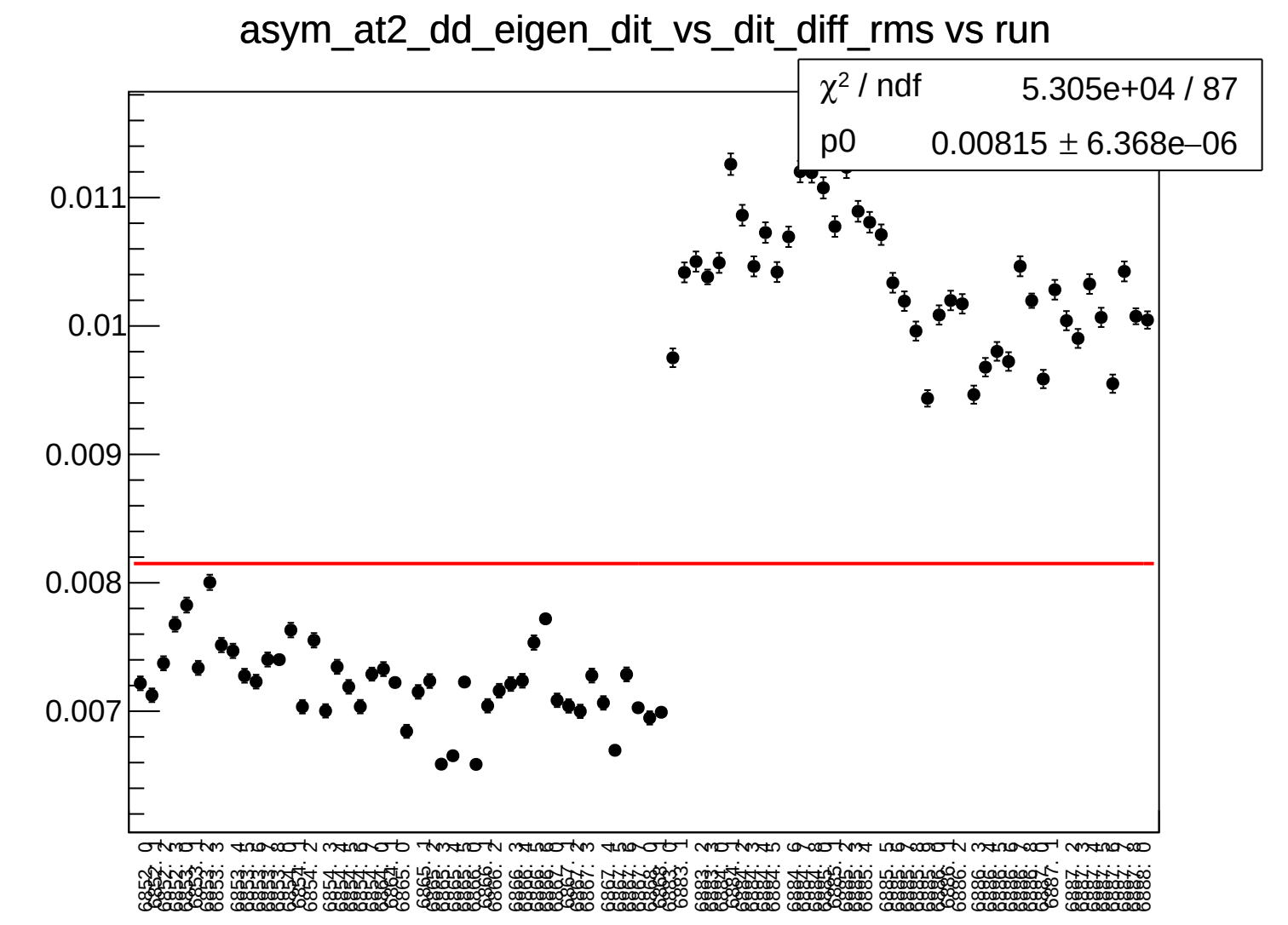

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.539e+04 / 87
p0 73.69 ± 0.05798
120
100
80
60
40

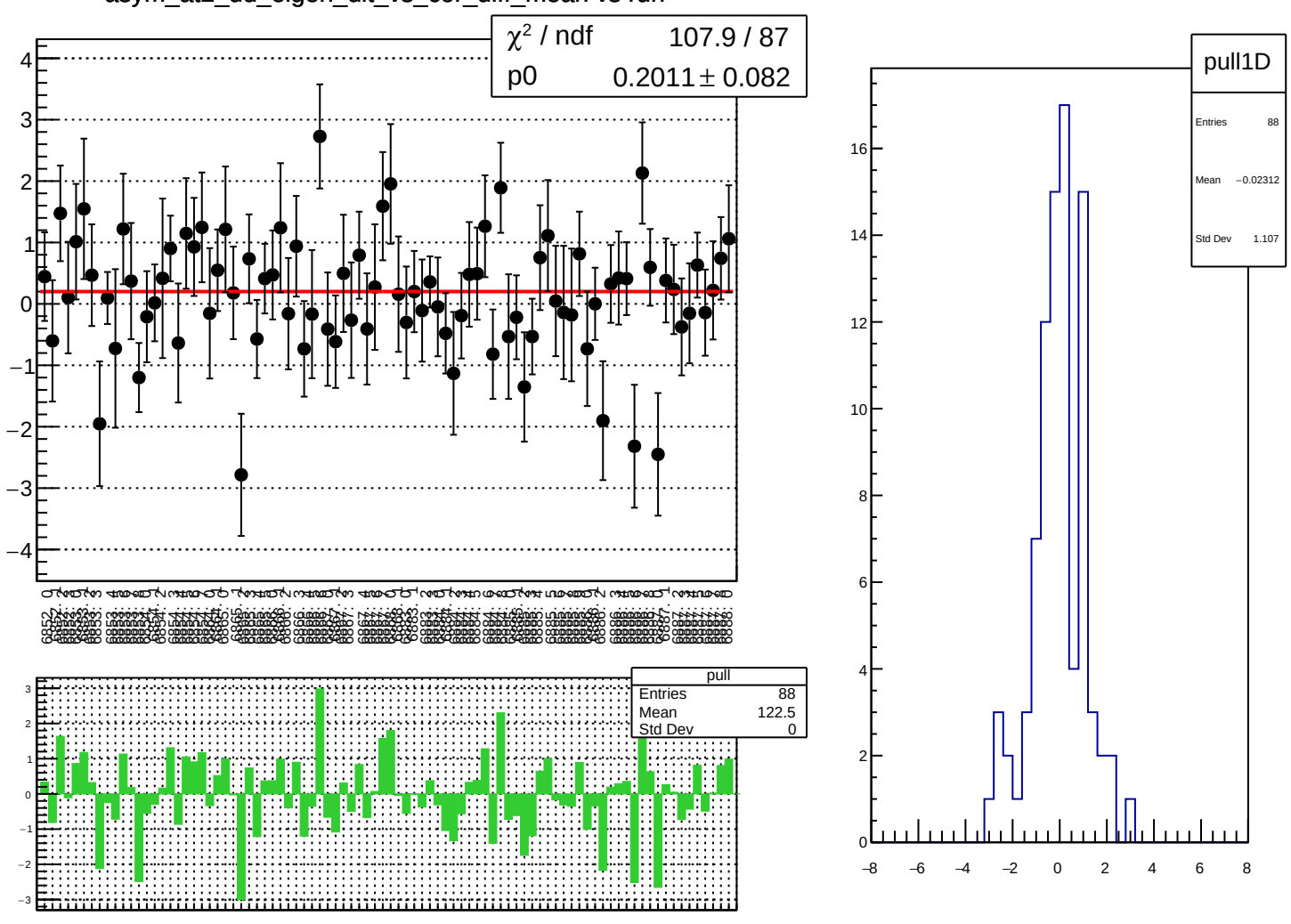

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.9 / 87
p0 0.2011± 0.08199
pull
Entries 88
Mean 122.5
Std Dev 0
pull1D
Entries 88
Mean −0.02311
Std Dev 1.107

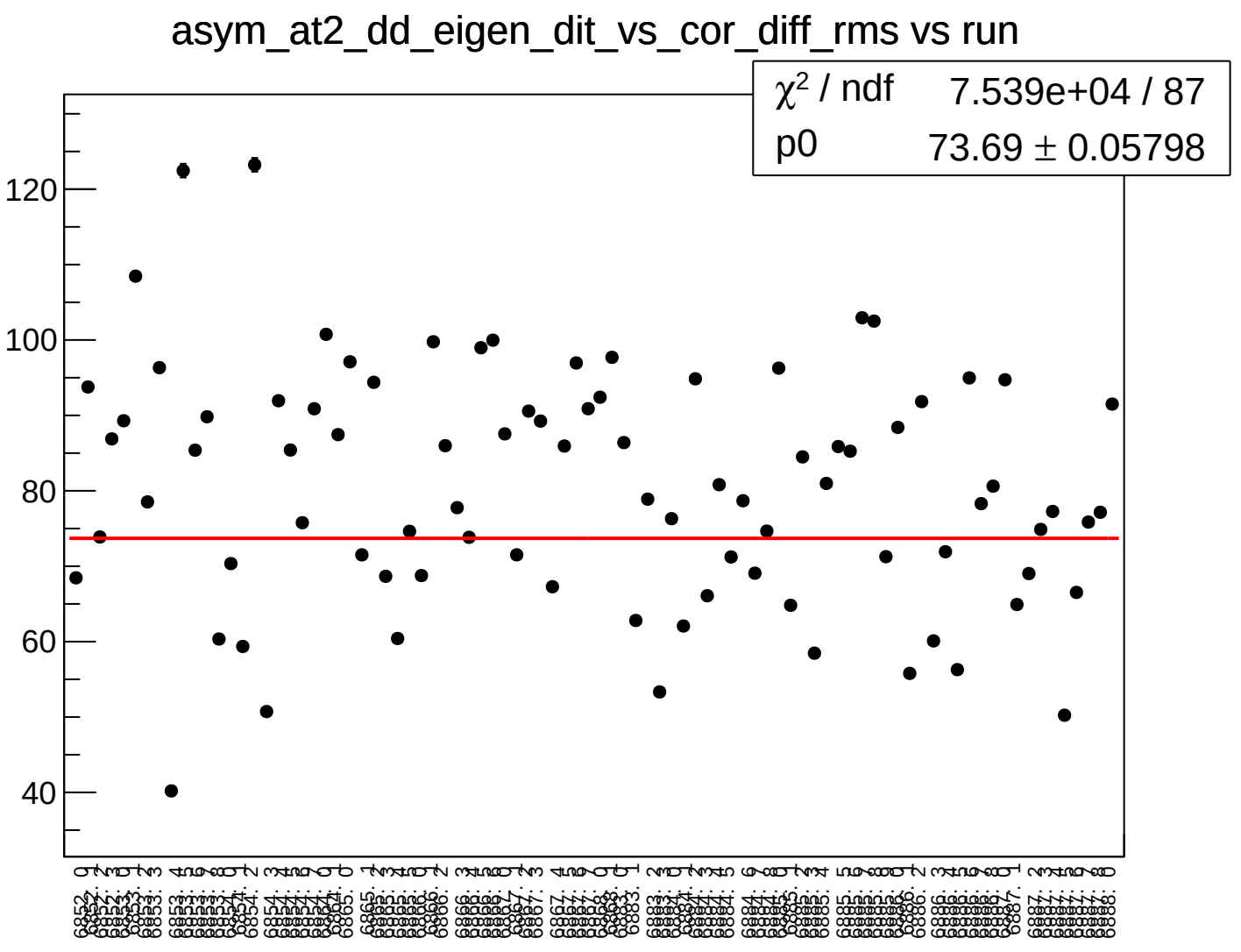

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.539e+04 / 87
p0 73.69 ± 0.05798
120
100
80
60
40


asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.04 / 87
p0 −7.192e−06 ± 9.006e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 88
Mean 402.3
Std Dev 0
3
2
1
0
−1
−2

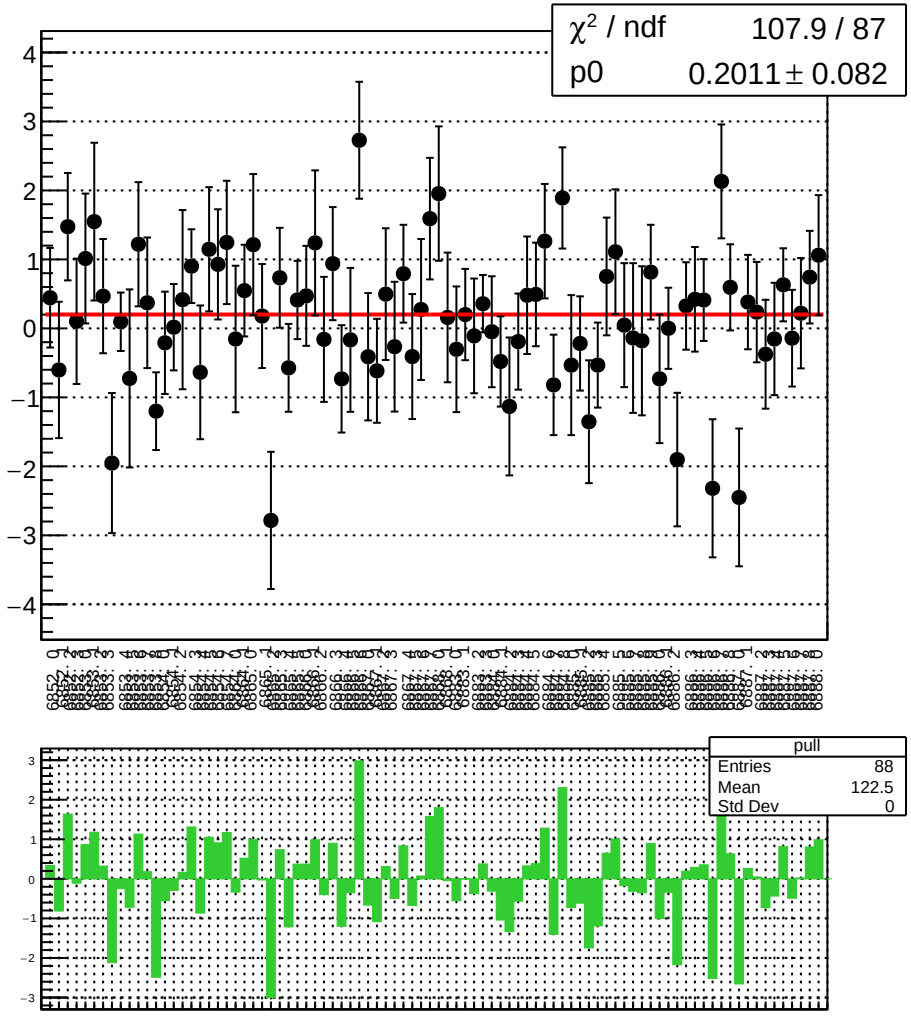

pull1D
Entries 88
Mean 0.005567
Std Dev 0.9888
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

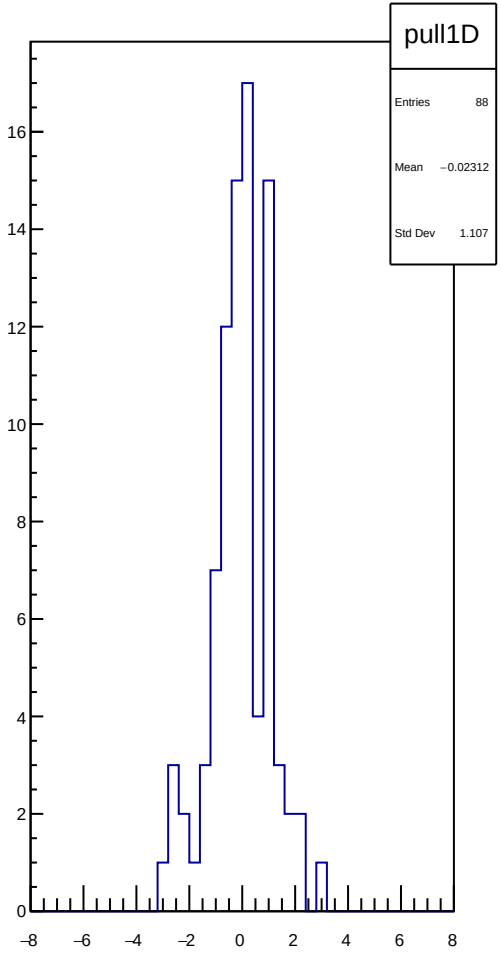

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.305e+04 / 87
p0 0.00815 ± 6.368e–06
0.011
0.01
0.009
0.008
0.007

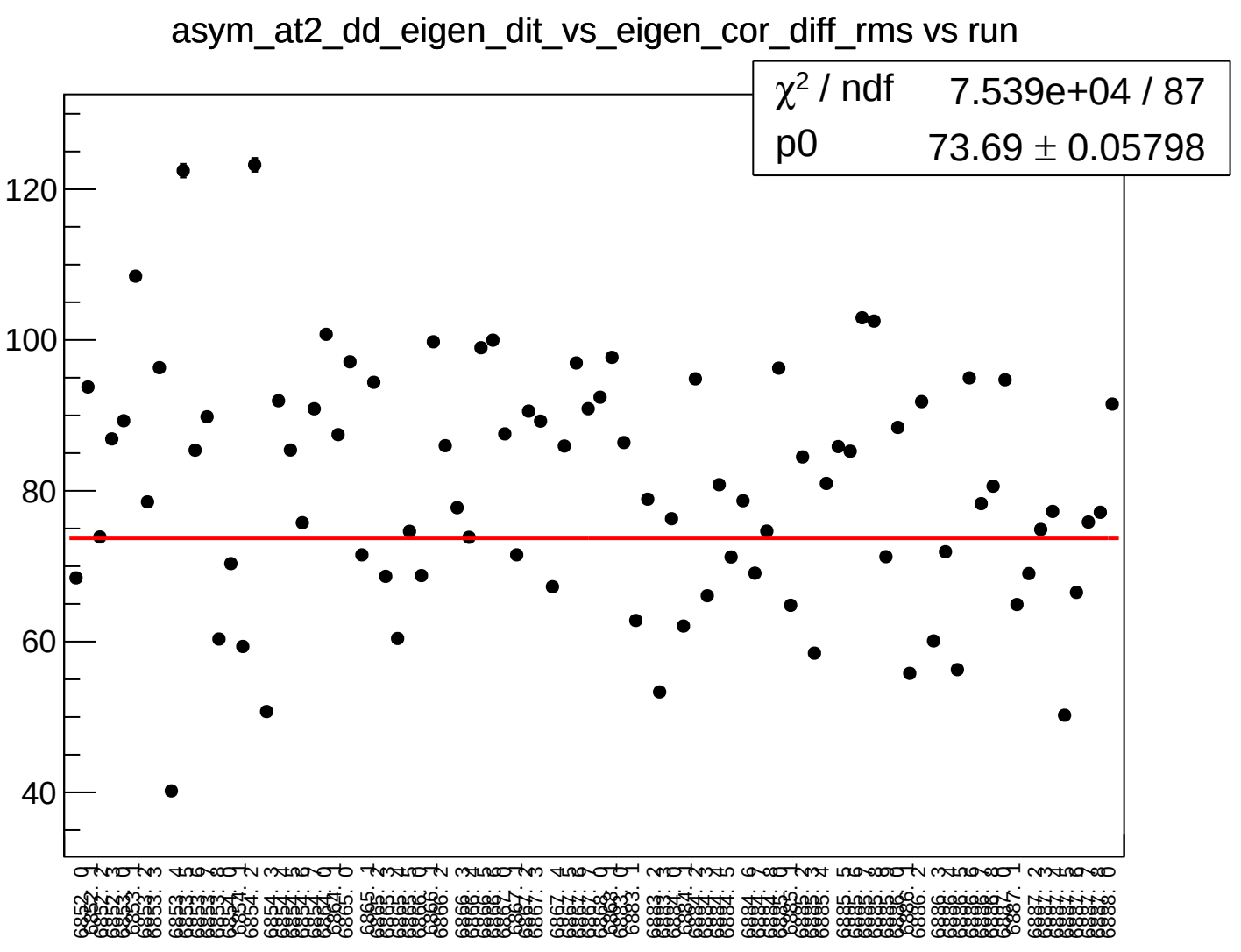

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.9 / 87
p0 0.2011 ± 0.082
pull
Entries 88
Mean 122.5
Std Dev 0
pull1D
Entries 88
Mean −0.02312
Std Dev 1.107

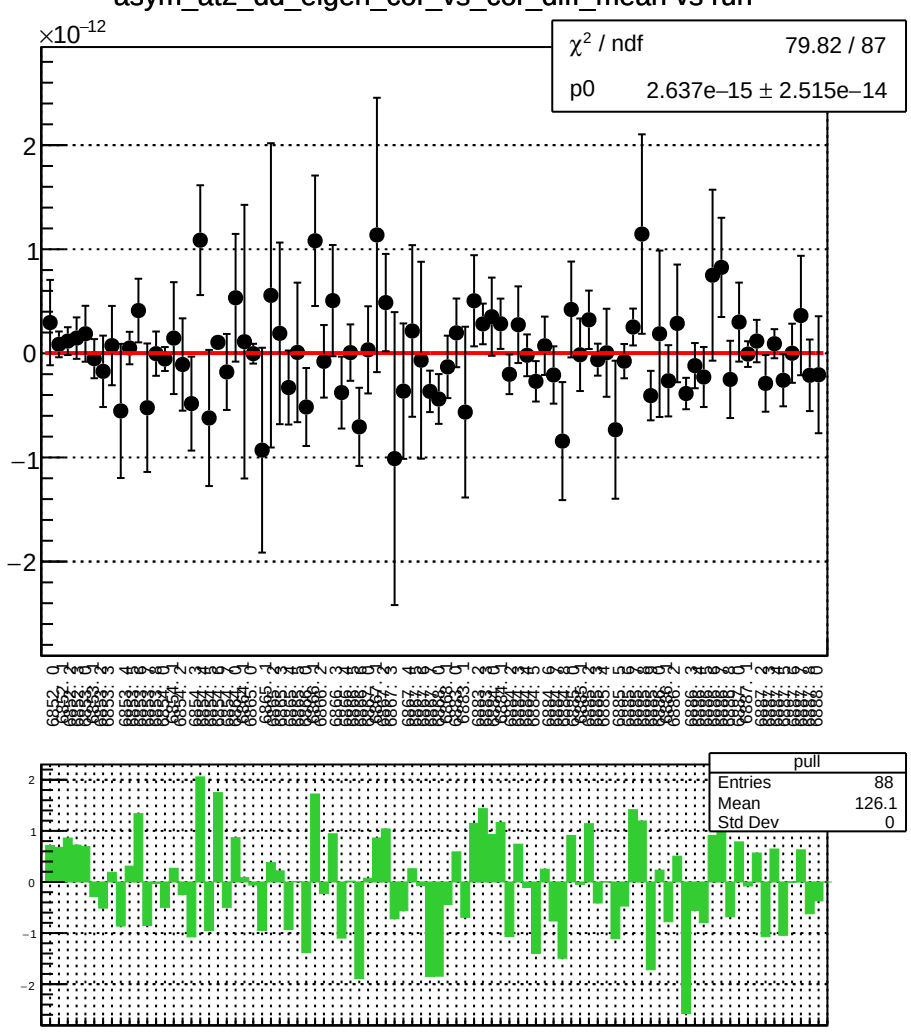

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.539e+04 / 87
p0 73.69 ± 0.05798
120
100
80
60
40

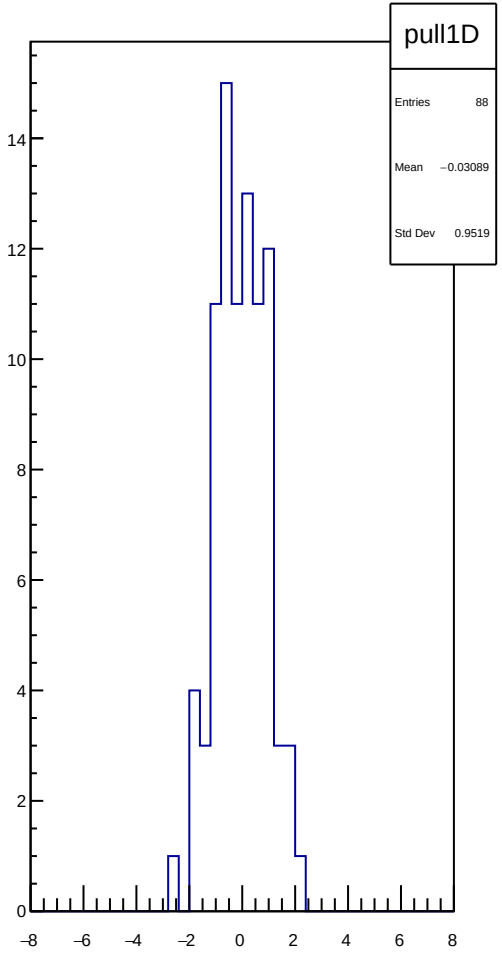
asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

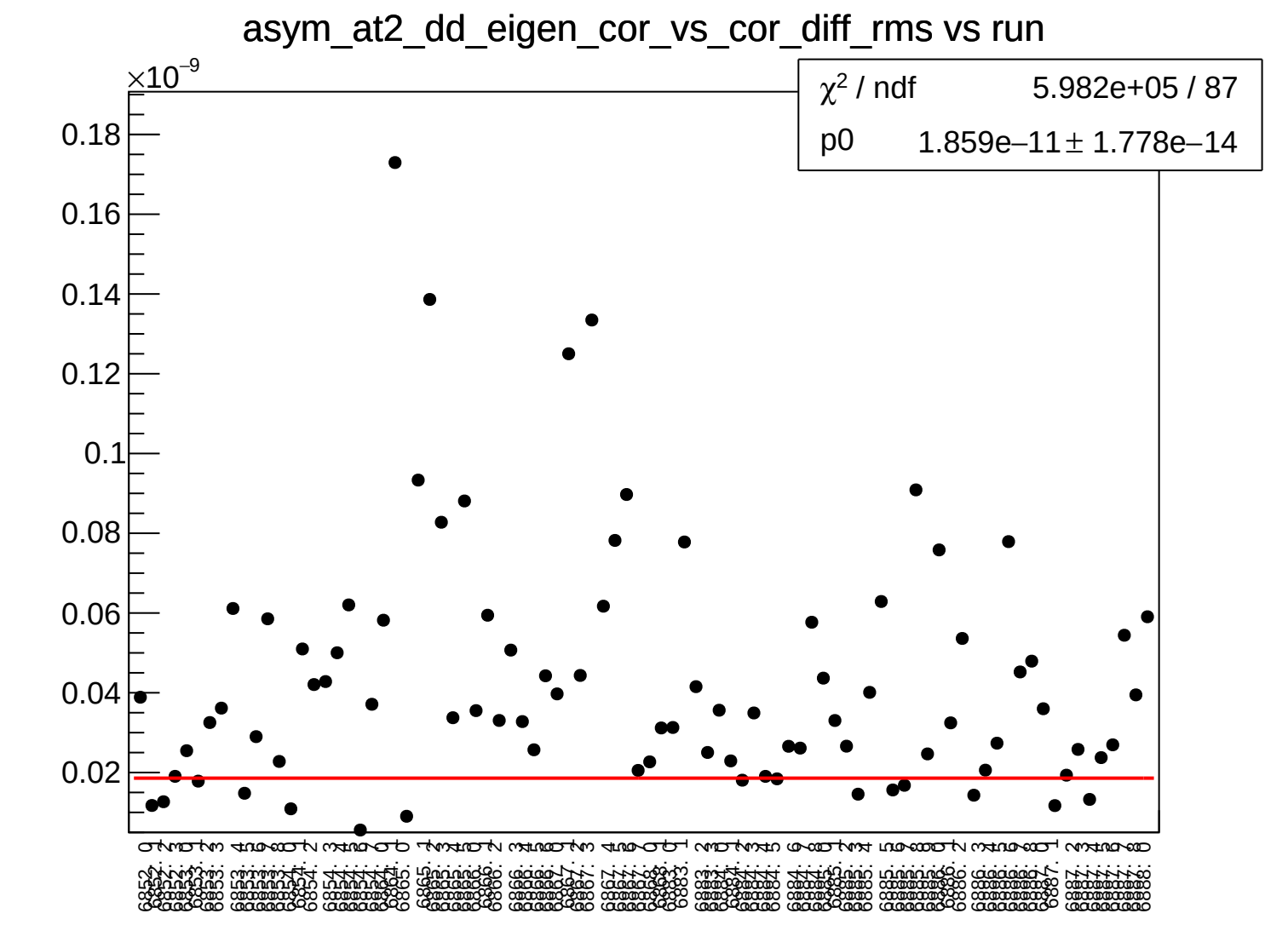


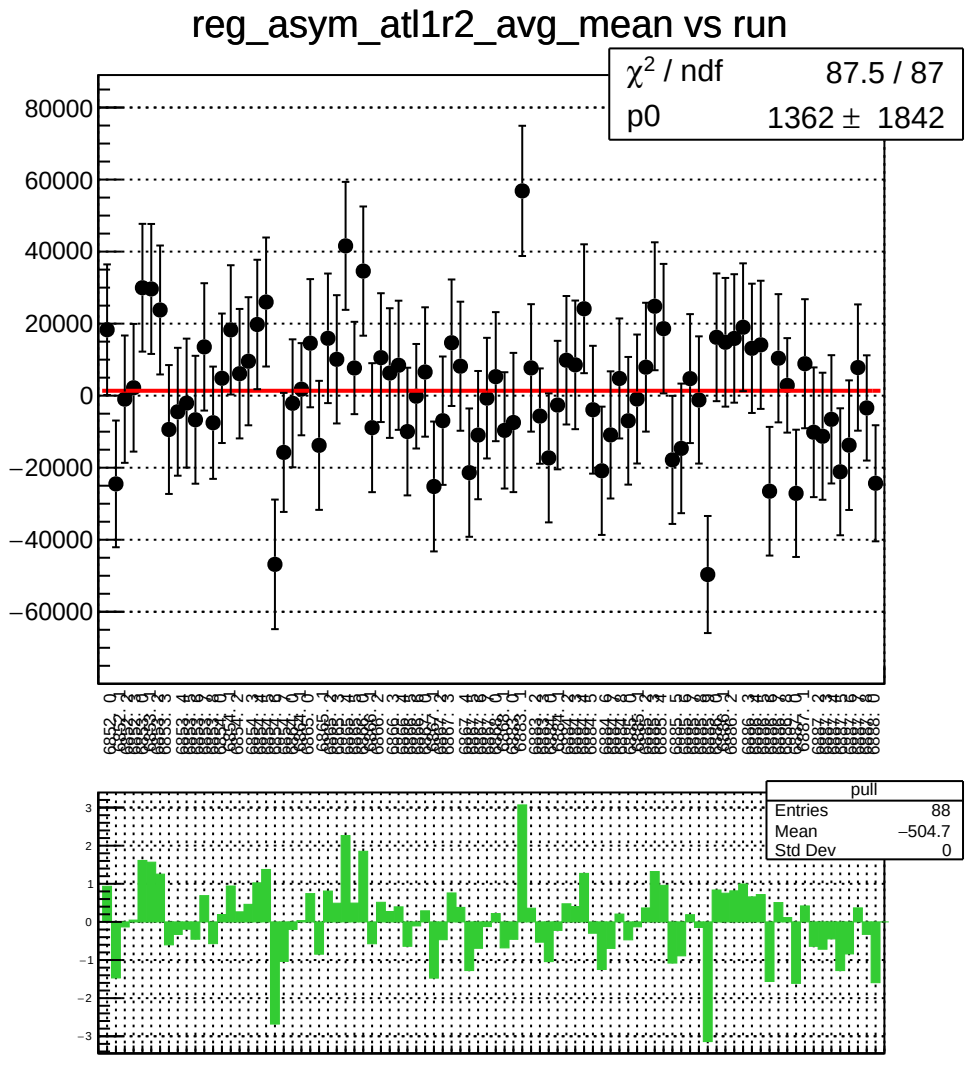


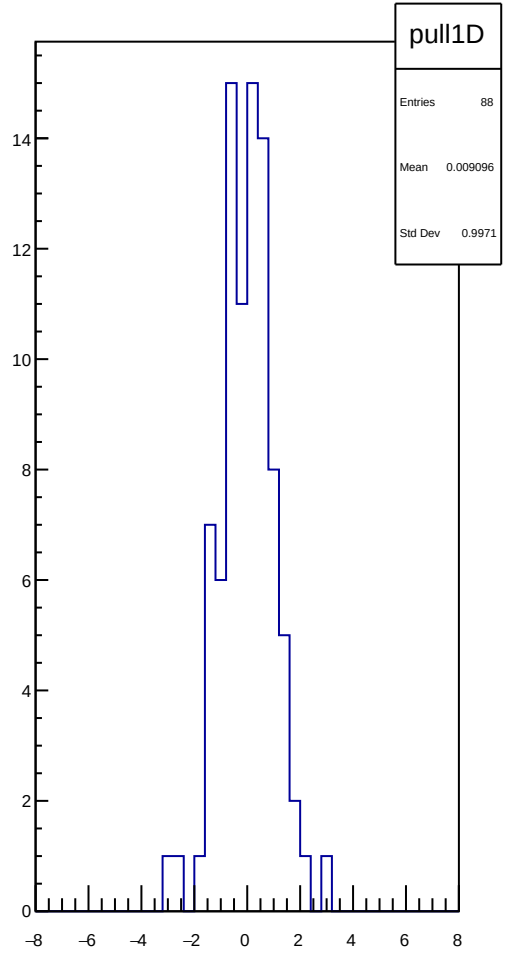

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.539e+04 / 87
p0 73.69 ± 0.05798
120
100
80
60
40

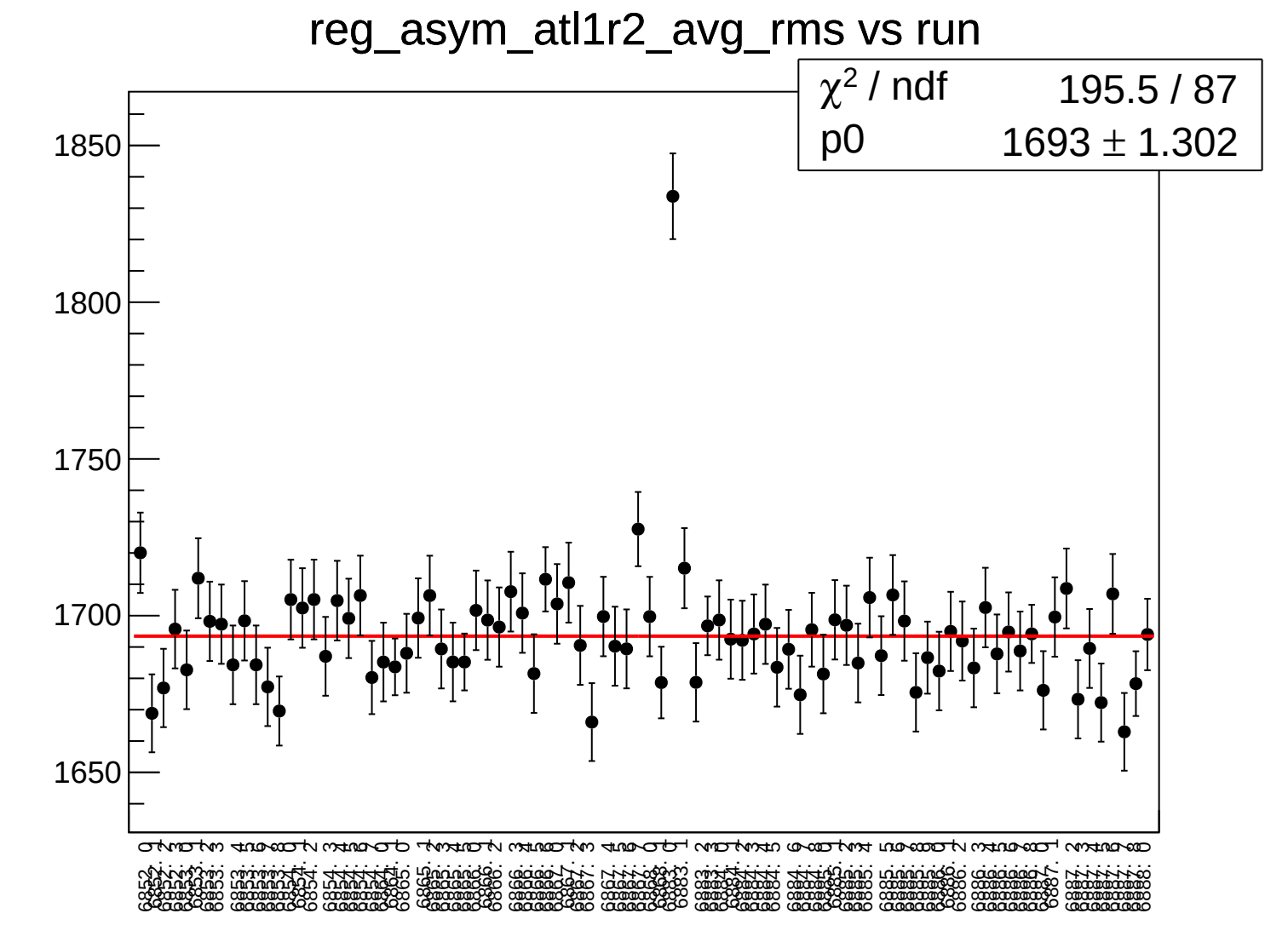

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.82 / 87
p0 2.637e−15 ± 2.515e−14
pull
Entries 88
Mean 126.1
Std Dev 0

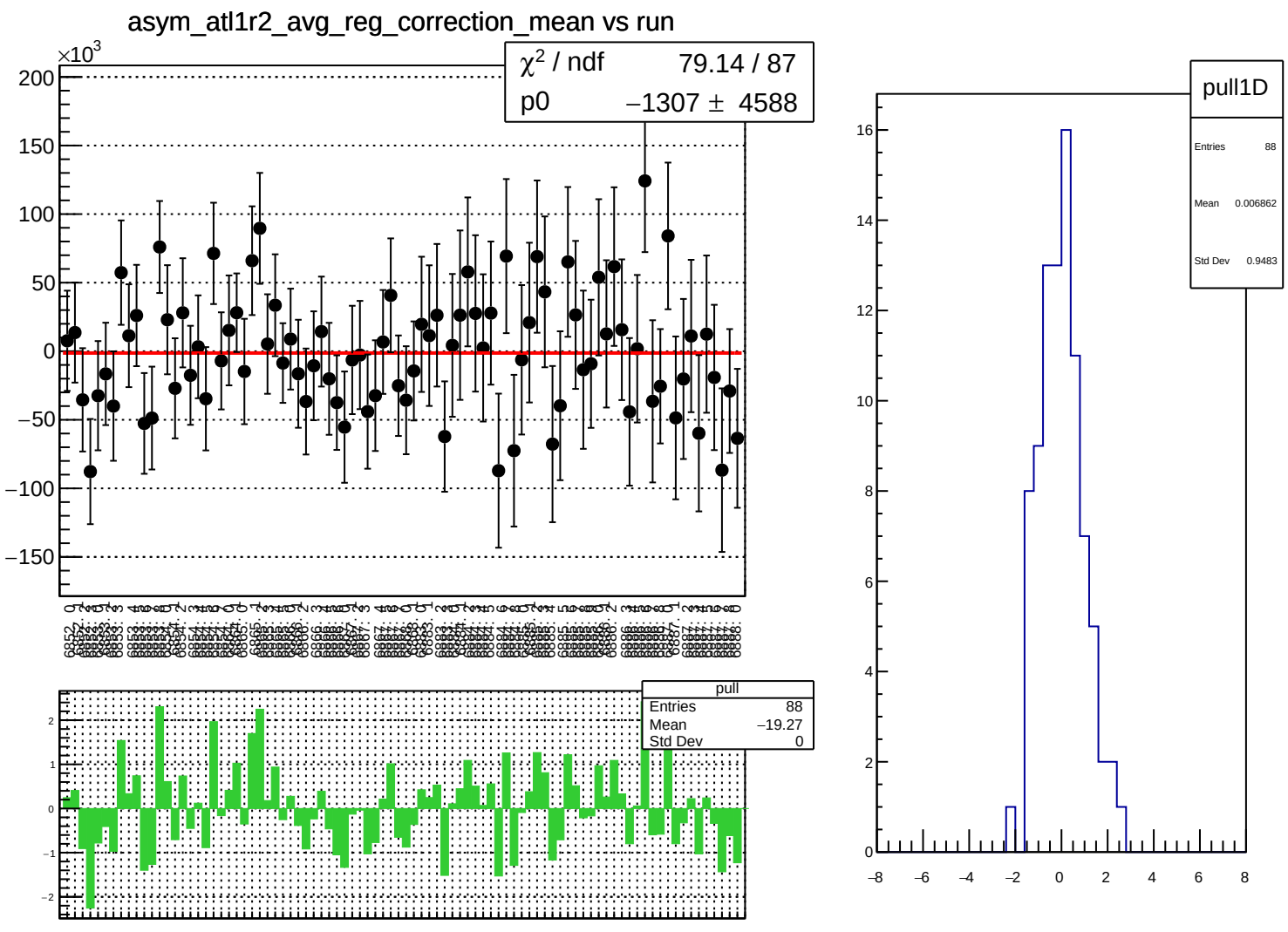

pull1D
Entries 88
Mean −0.03089
Std Dev 0.9519

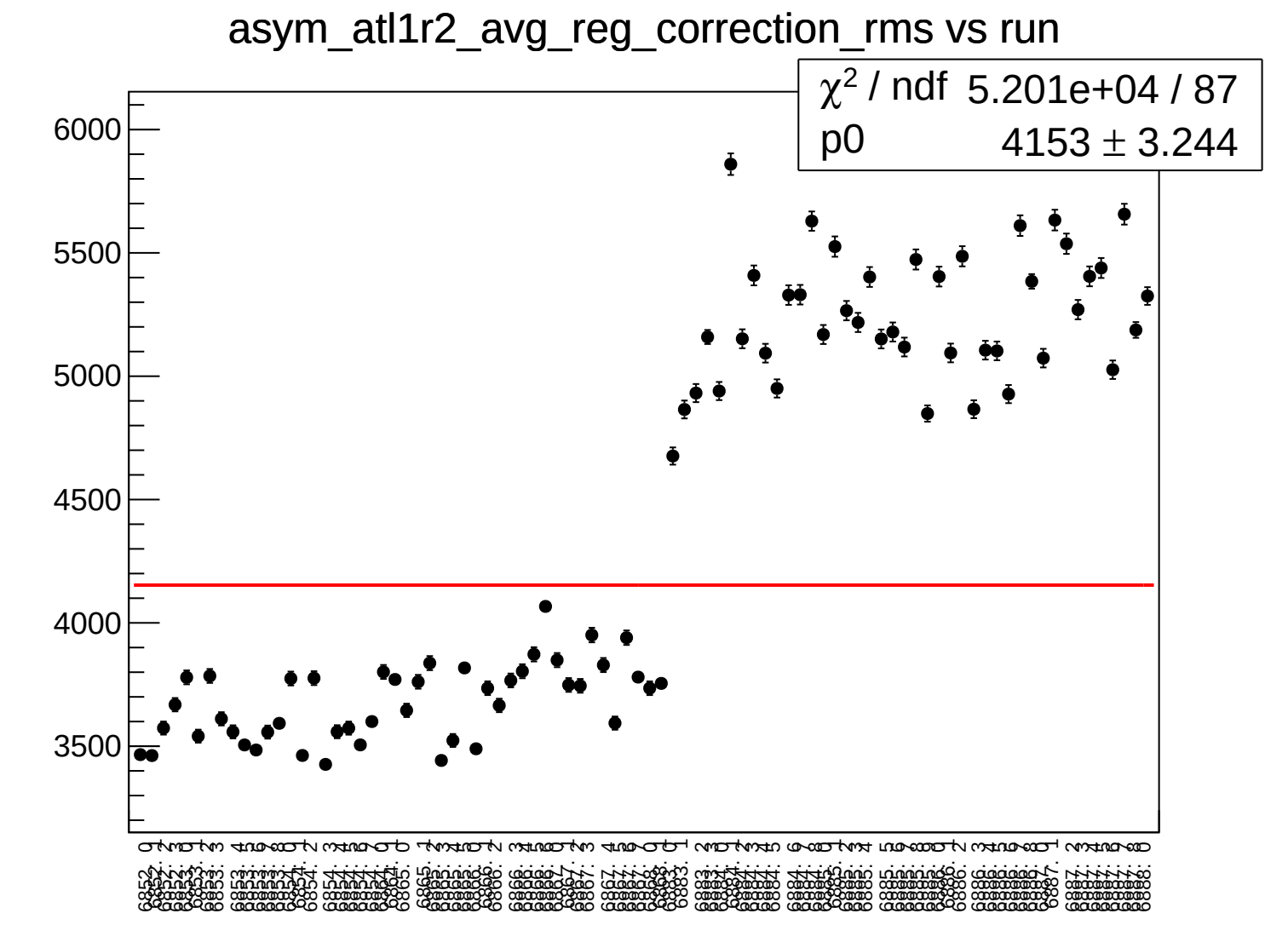

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.982e+05 / 87
p0 1.859e−11 ± 1.778e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

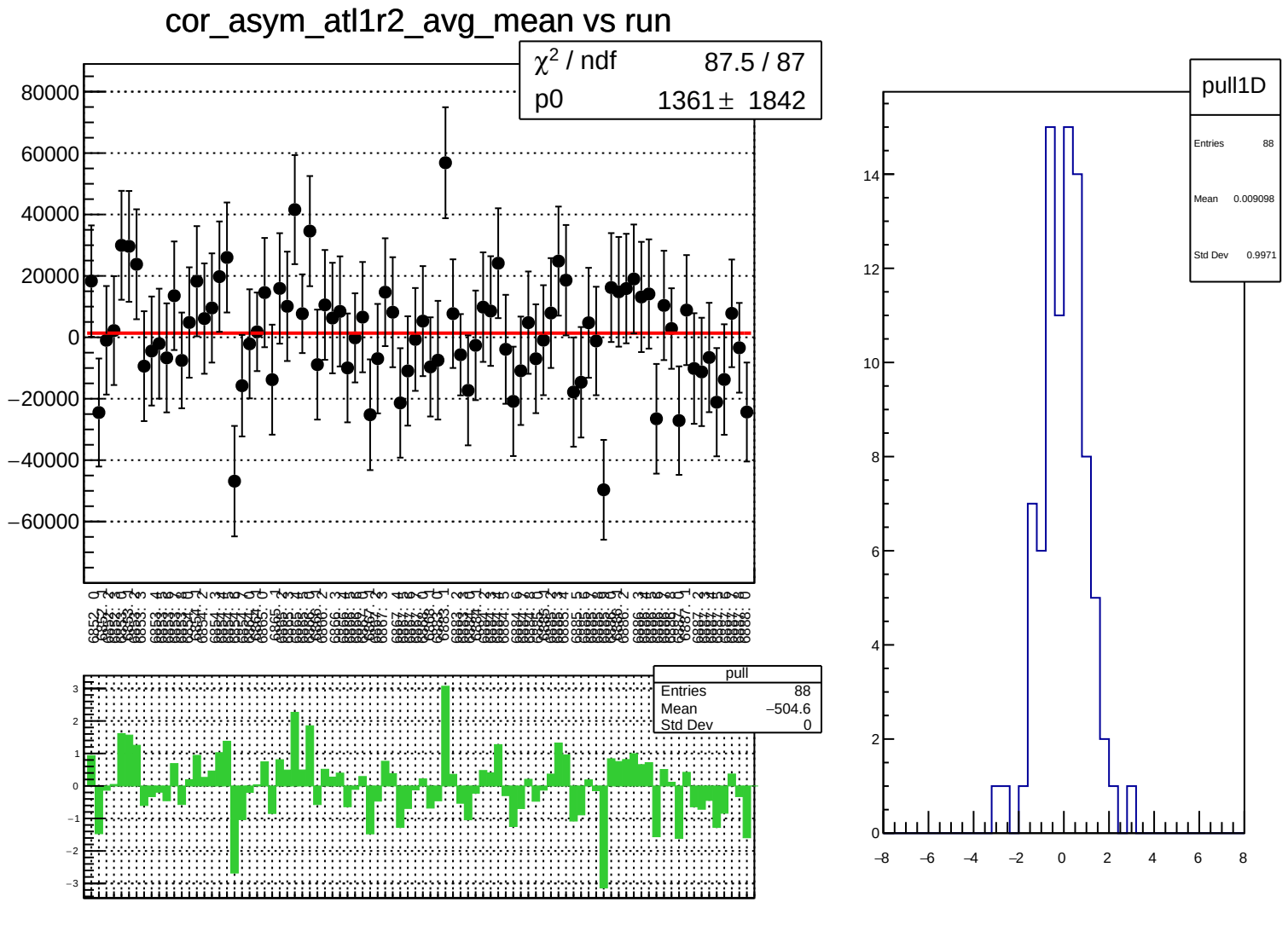

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 87.5 / 87
p0 1362 ± 1842
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −504.7
Std Dev 0
3
2
1
0
−1
−2
−3

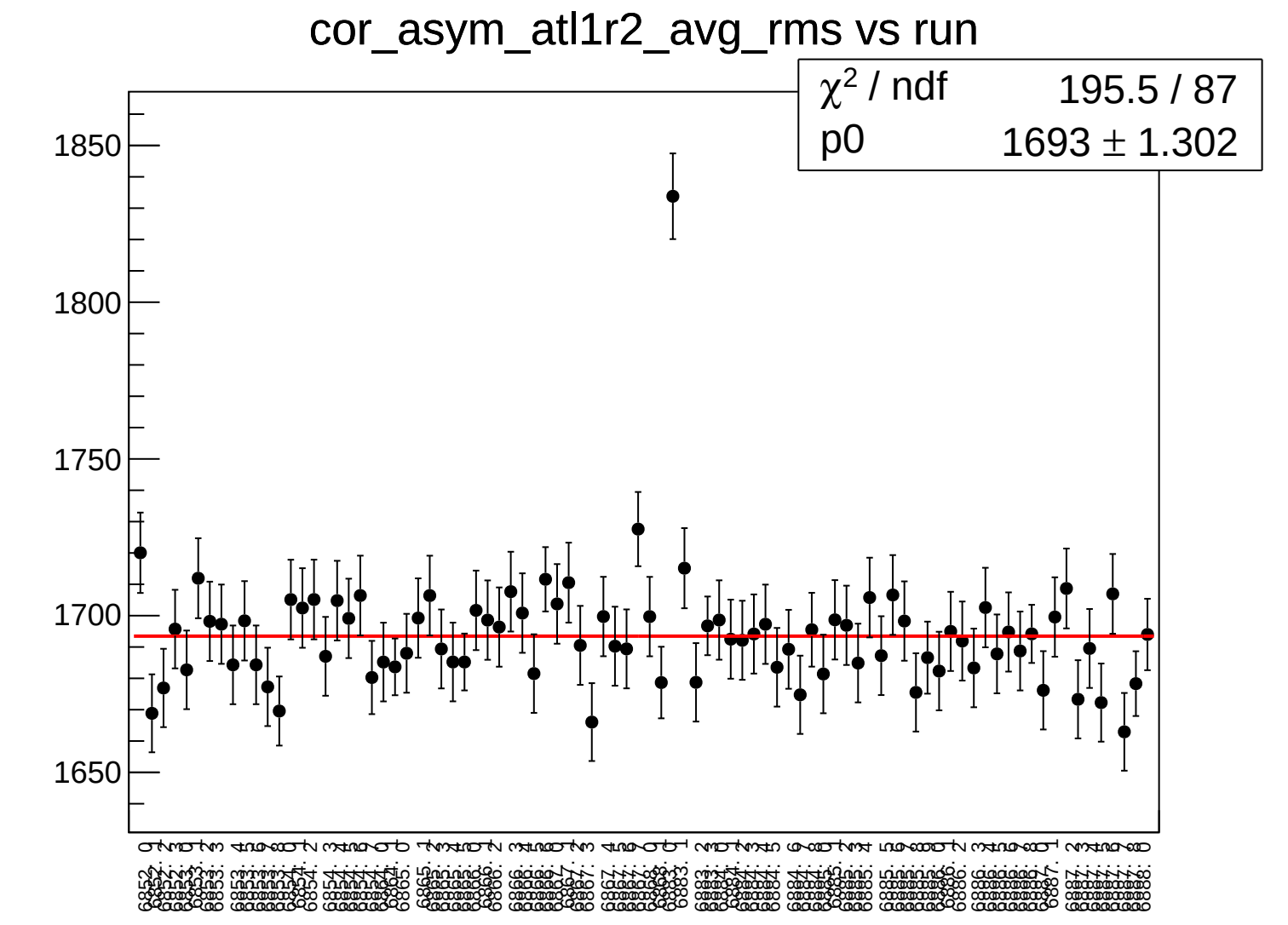

pull1D
Entries 88
Mean 0.009096
Std Dev 0.9971
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

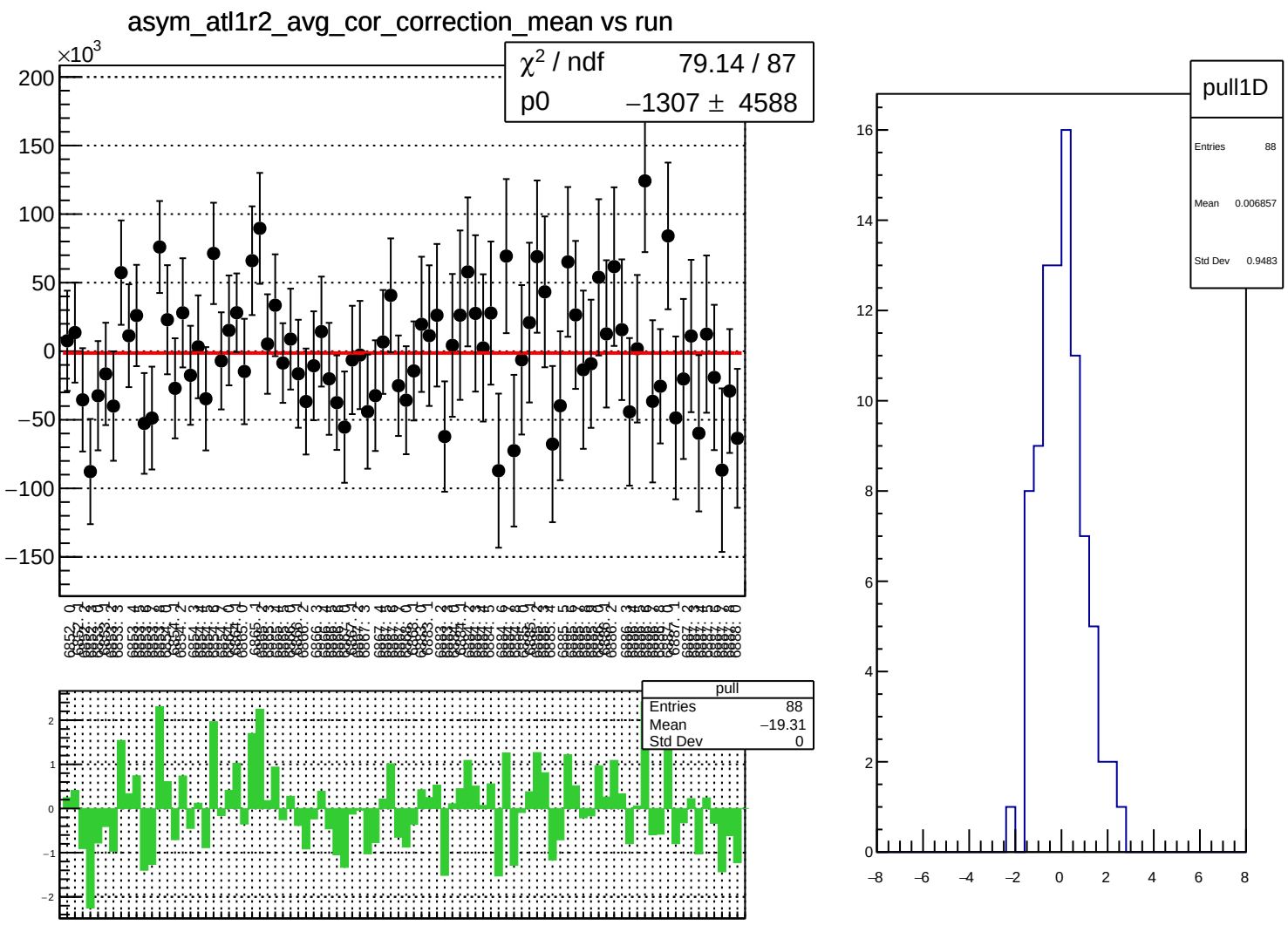

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 195.5 / 87
p0 1693 ± 1.302
1850
1800
1750
1700
1650

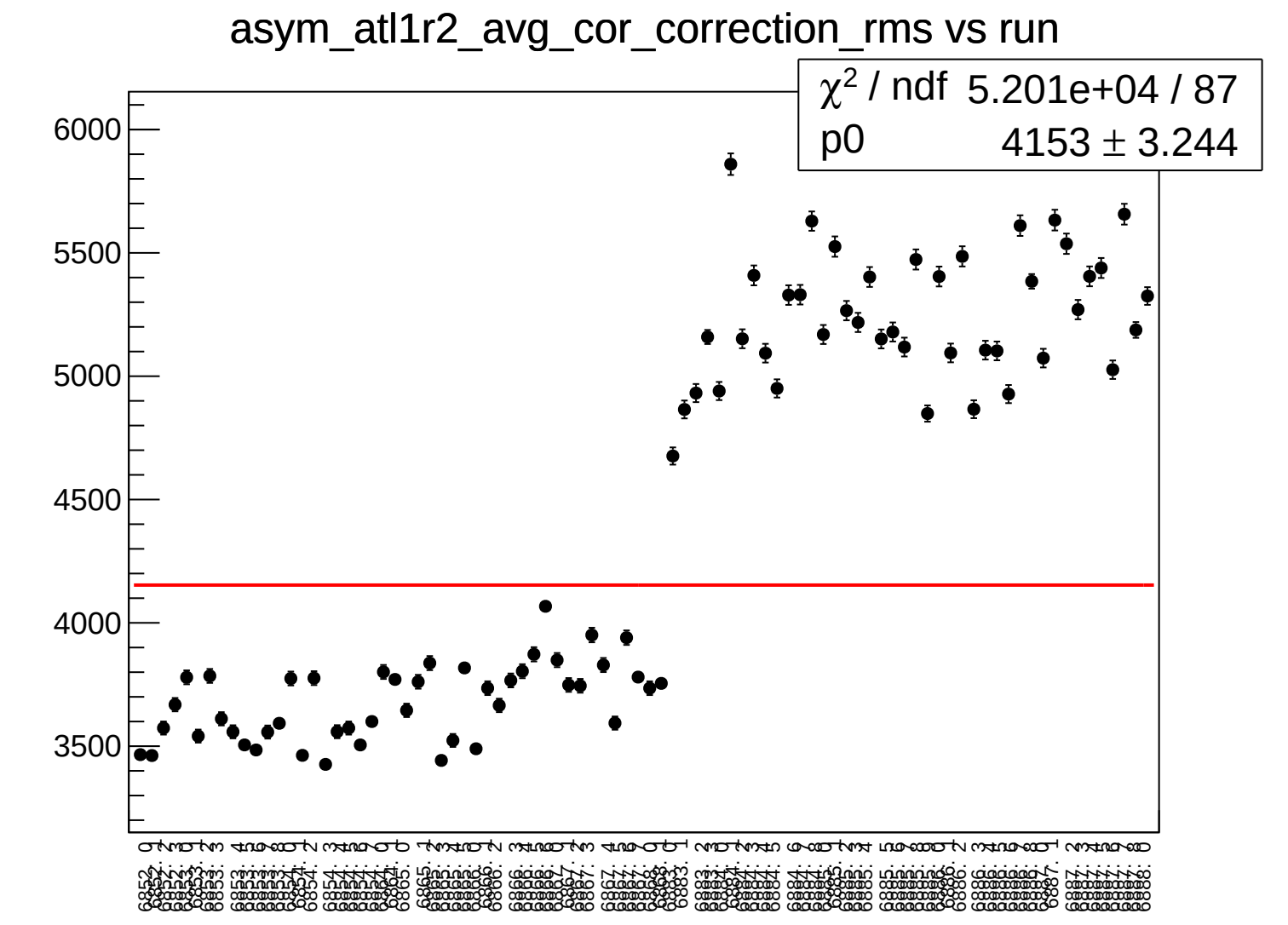

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 79.14 / 87
p0 −1307 ± 4588
200
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −19.27
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.006862
Std Dev 0.9483
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

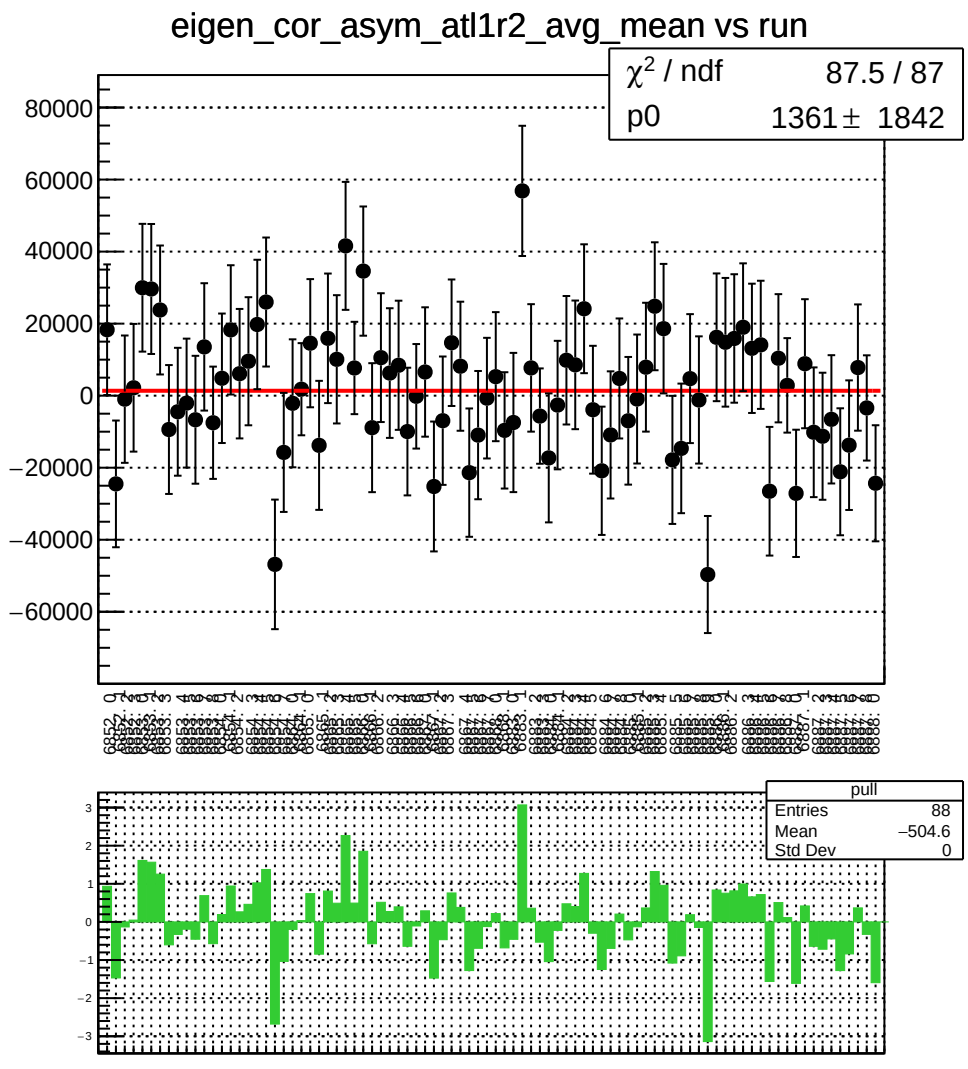

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 5.201e+04 / 87
p0 4153 ± 3.244
6000
5500
5000
4500
4000
3500

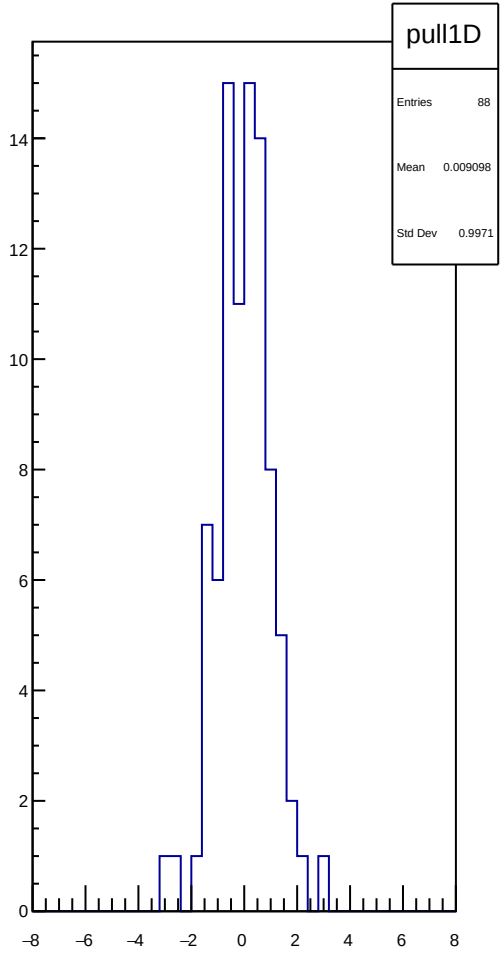

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 87.5 / 87
p0 1361 ± 1842
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −504.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.009098
Std Dev 0.9971
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

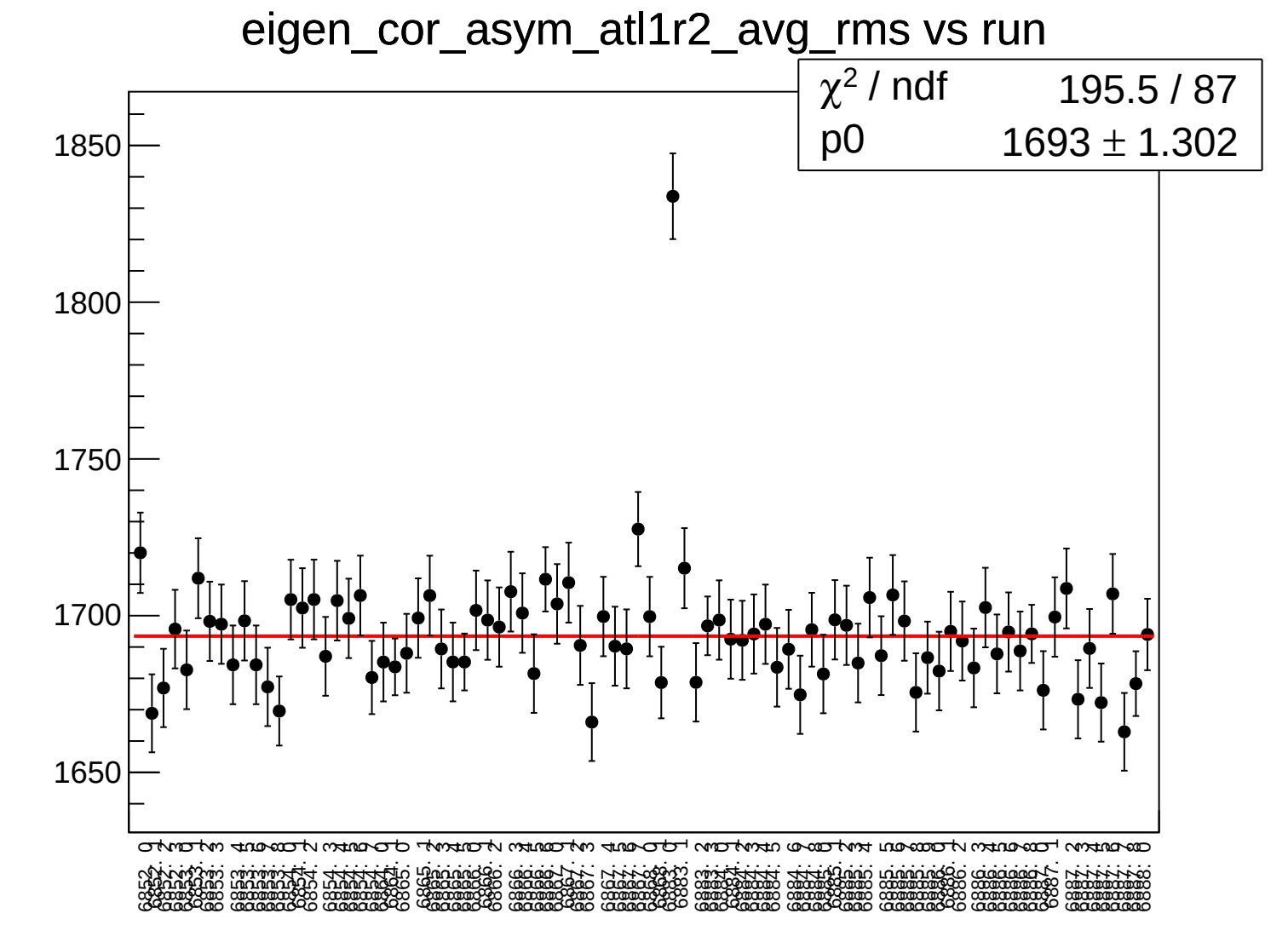

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 195.5 / 87
p0 1693 ± 1.302
1850
1800
1750
1700
1650

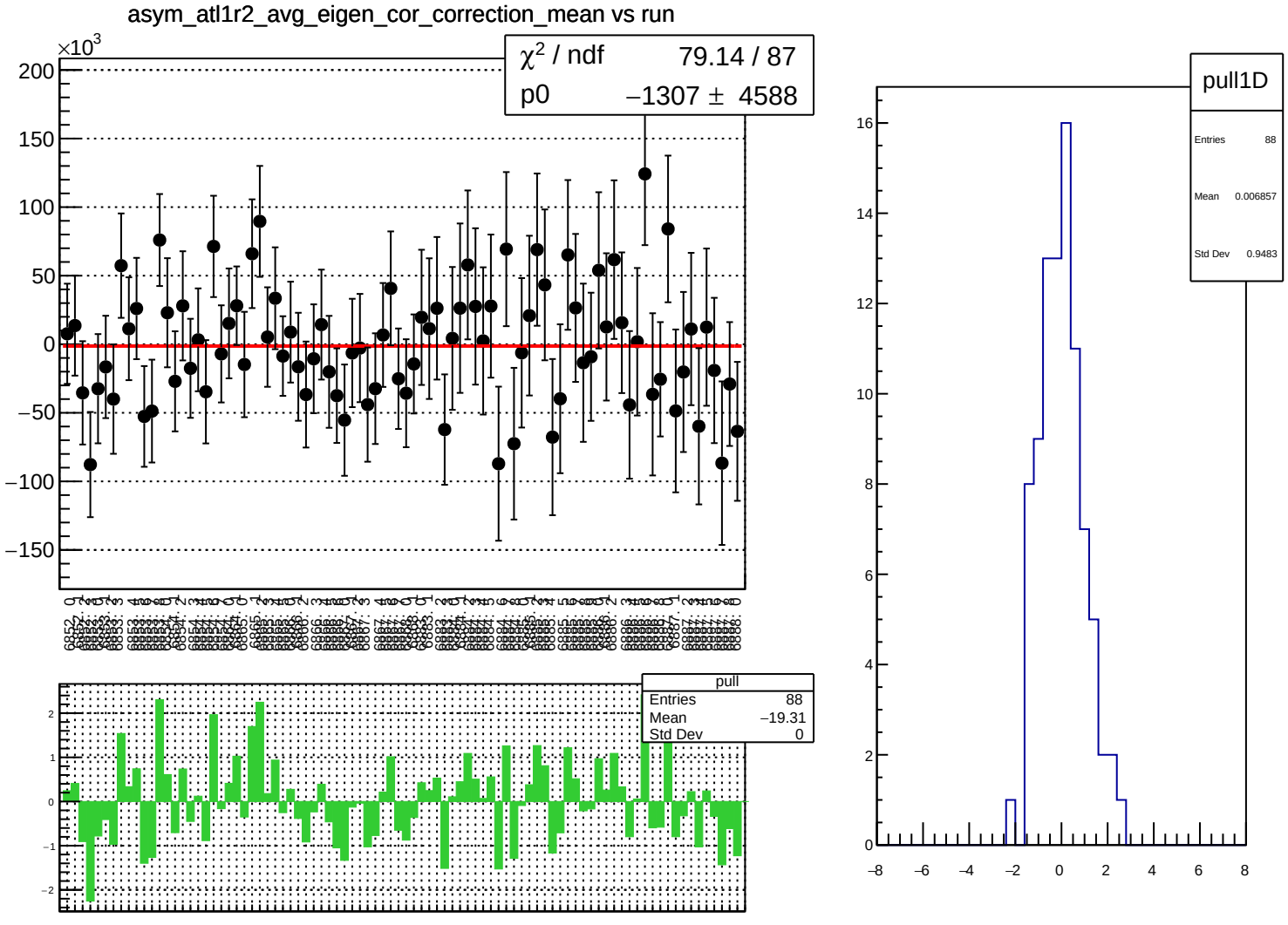

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 79.14 / 87
p0 −1307 ± 4588
200
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −19.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.006857
Std Dev 0.9483
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

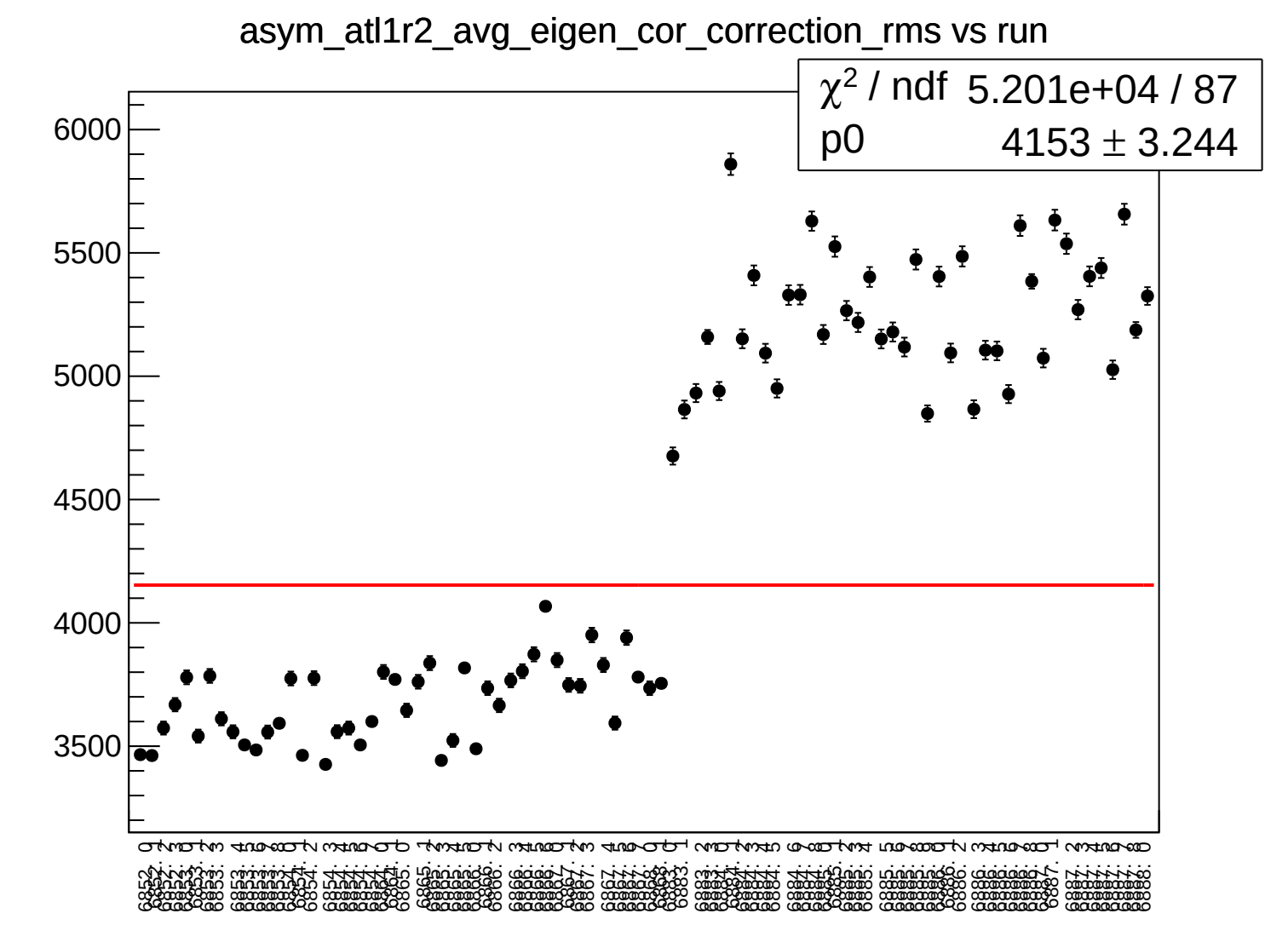

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 5.201e+04 / 87
p0 4153 ± 3.244
6000
5500
5000
4500
4000
3500

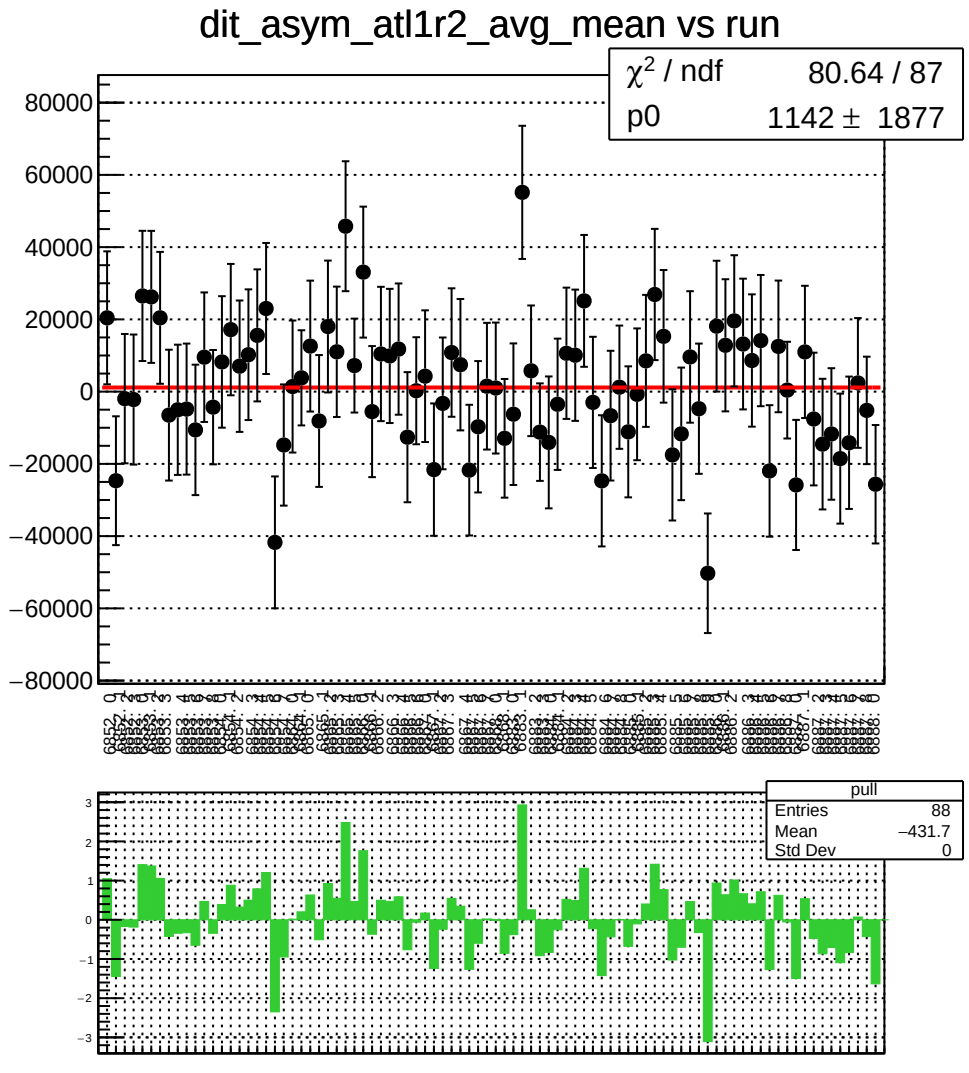

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 87.5 / 87
p0 1361 ± 1842
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −504.6
Std Dev 0
3
2
1
0
−1
−2
−3

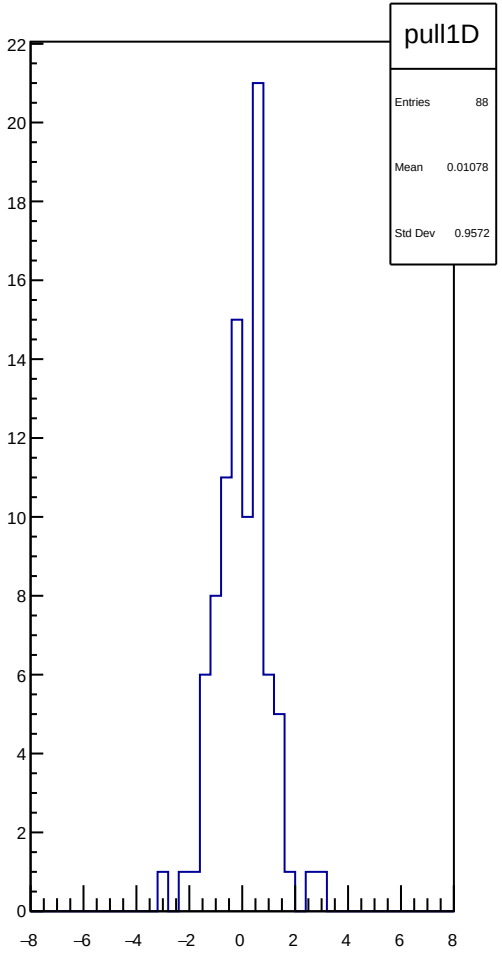

pull1D
Entries 88
Mean 0.009098
Std Dev 0.9971
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

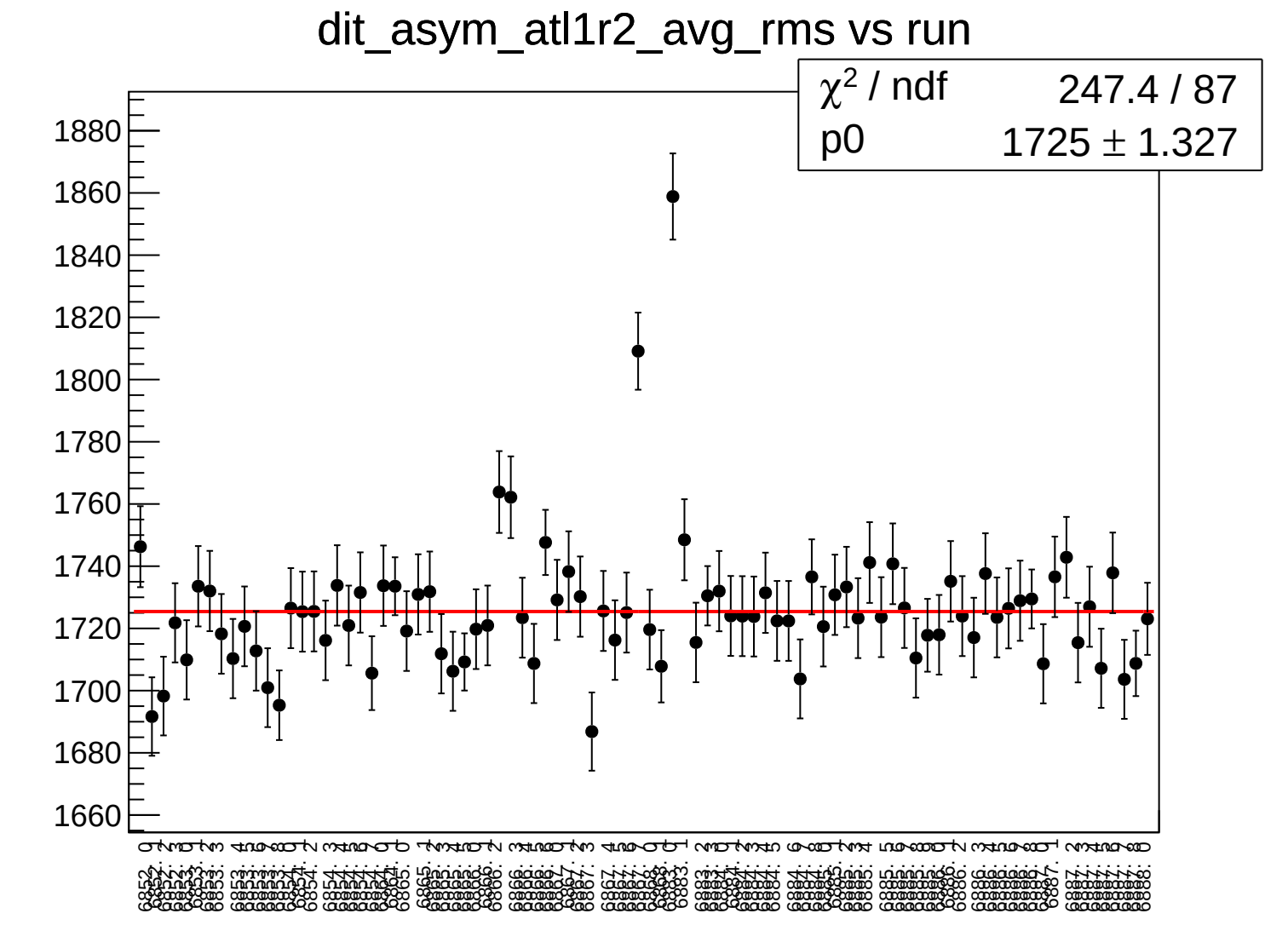

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 195.5 / 87
p0 1693 ± 1.302
1850
1800
1750
1700
1650

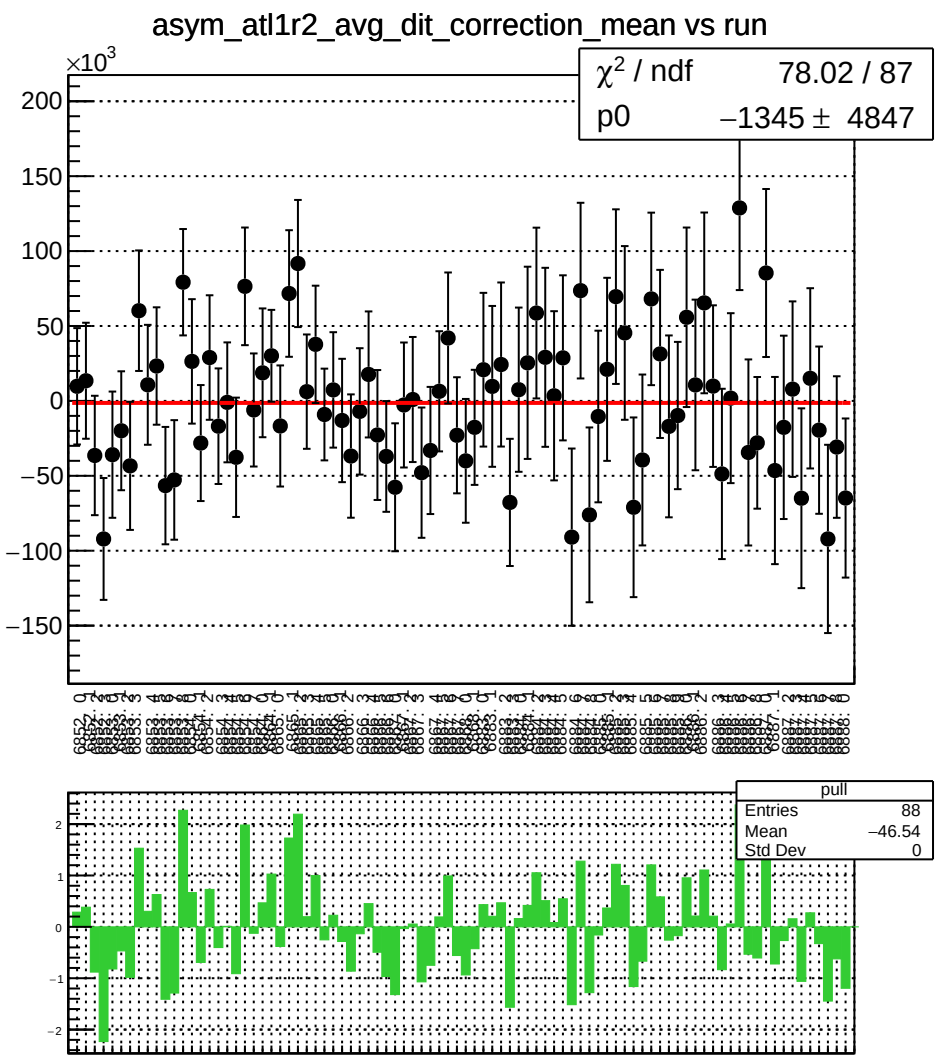

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 79.14 / 87
p0 −1307 ± 4588
pull
Entries 88
Mean −19.31
Std Dev 0
pull1D
Entries 88
Mean 0.006857
Std Dev 0.9483

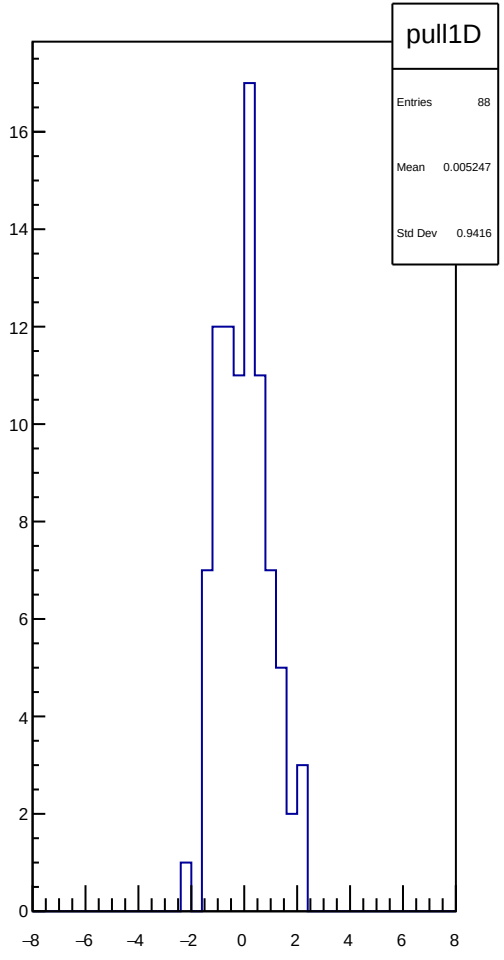

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.201e+04 / 87
p0 4153 ± 3.244
6000
5500
5000
4500
4000
3500

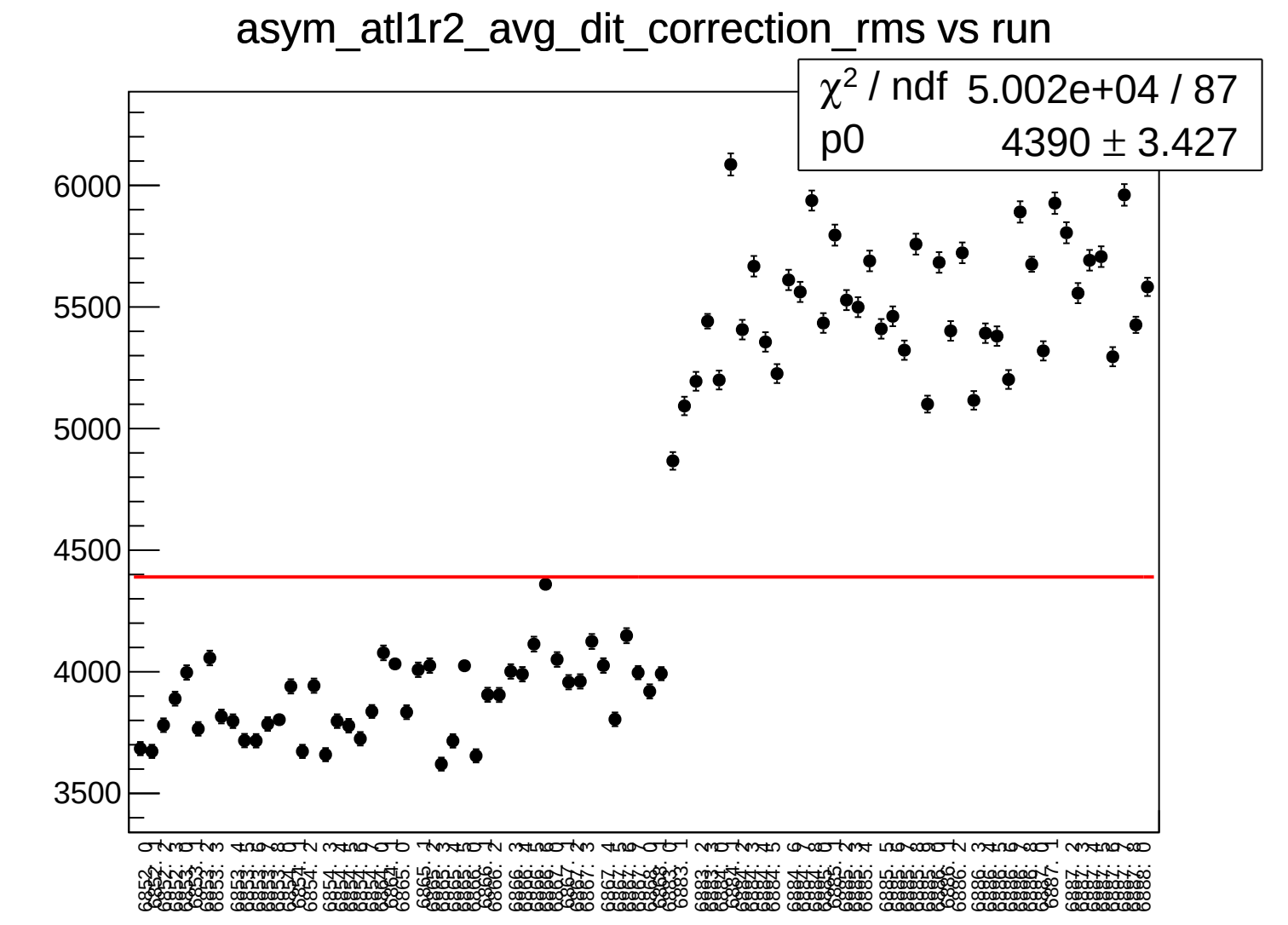

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 80.64 / 87
p0 1142 ± 1877
pull
Entries 88
Mean −431.7
Std Dev 0

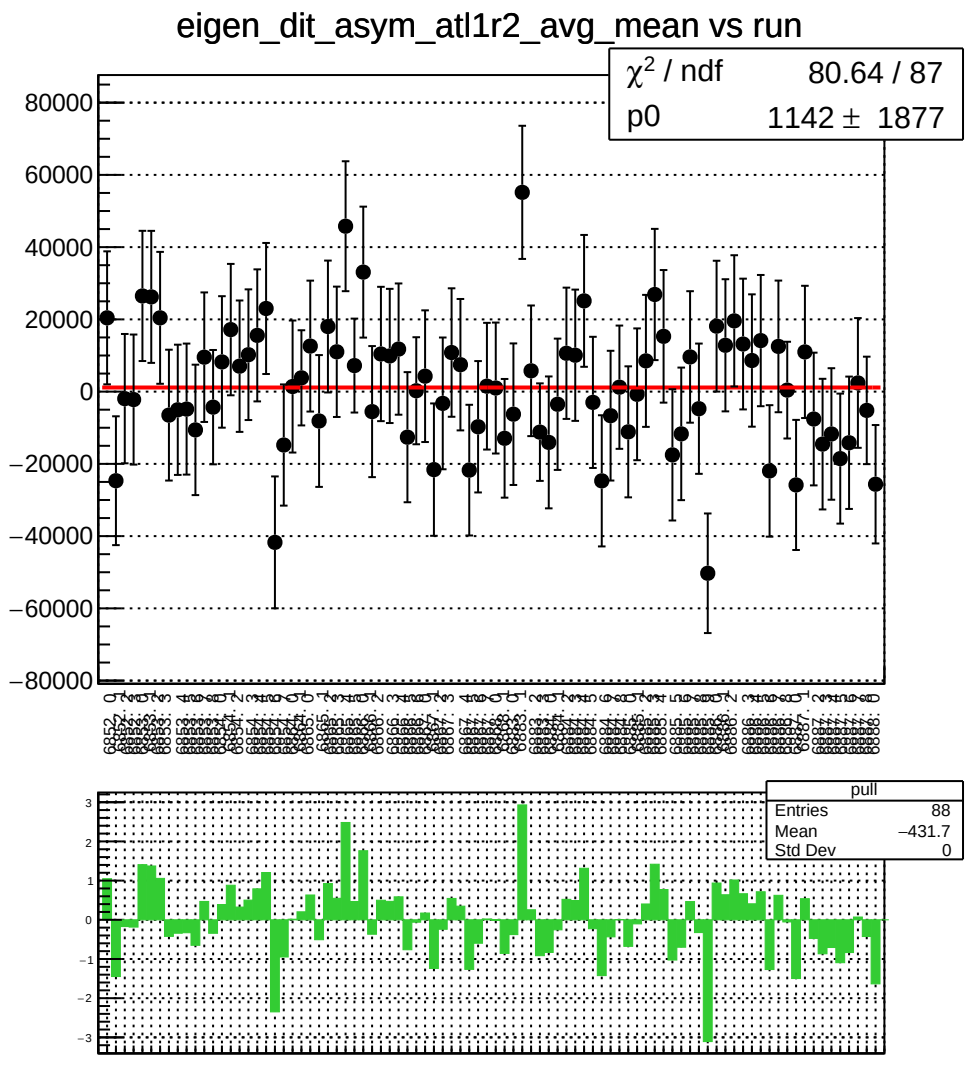

pull1D
Entries 88
Mean 0.01078
Std Dev 0.9572

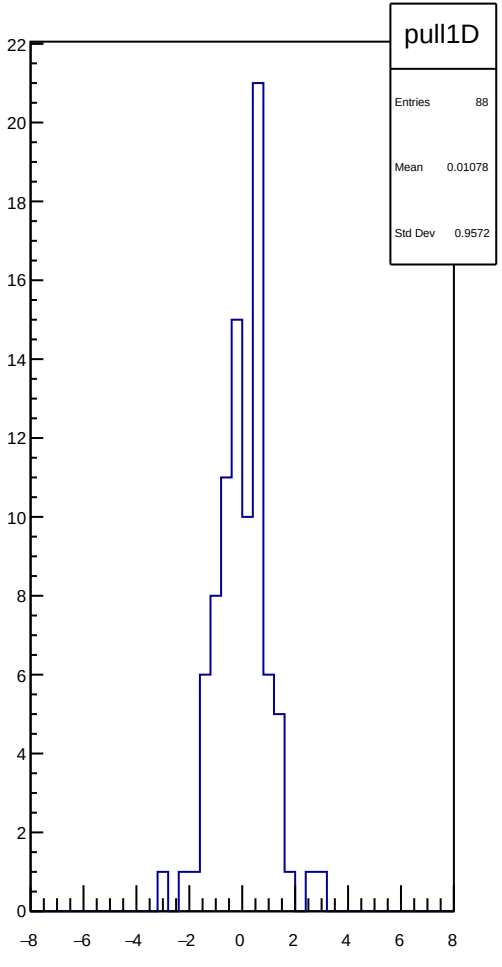

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 247.4 / 87
p0 1725 ± 1.327
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

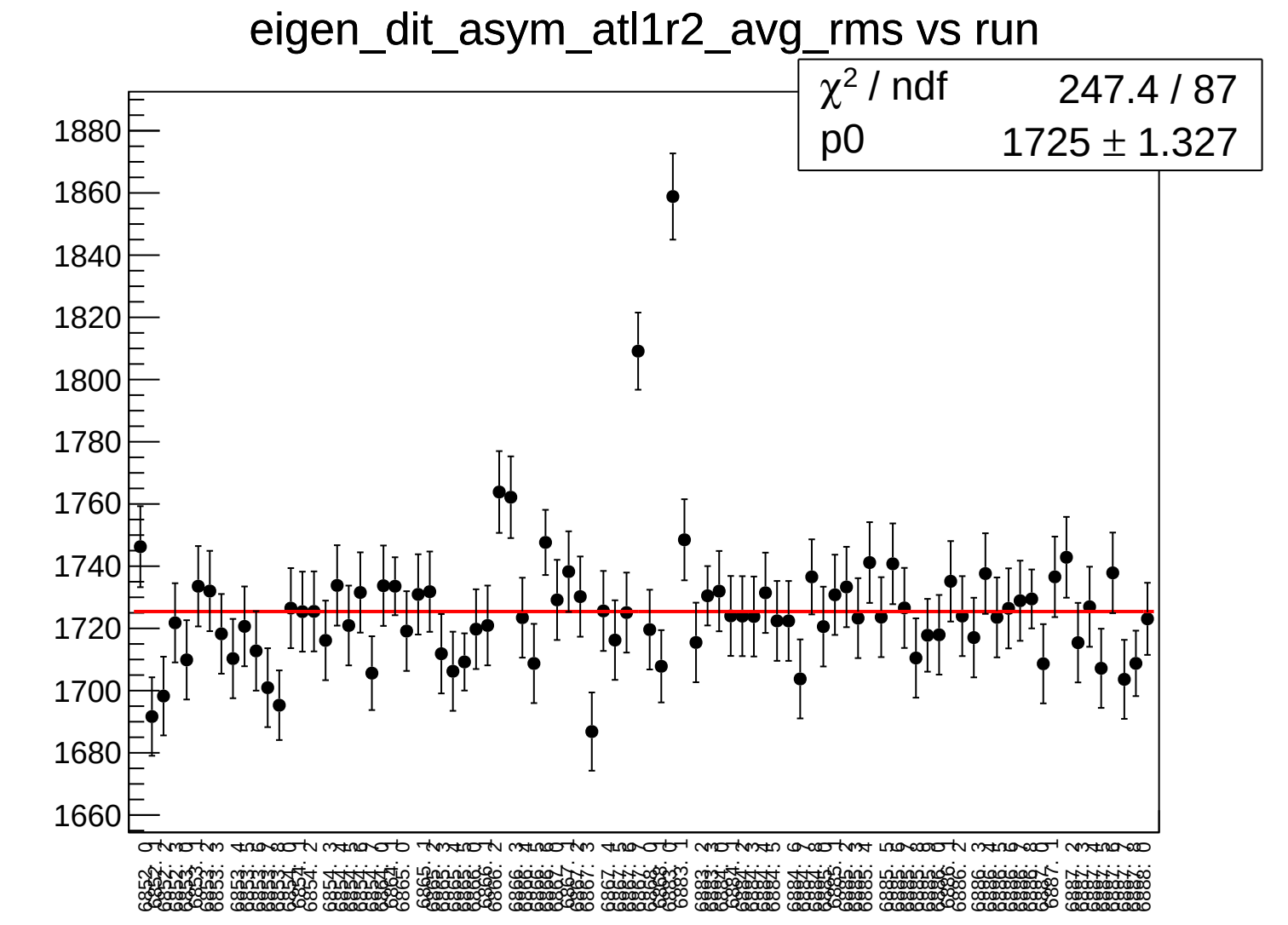

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 78.02 / 87
p0 −1345 ± 4847
200
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −46.54
Std Dev 0
2
1
0
−1
−2

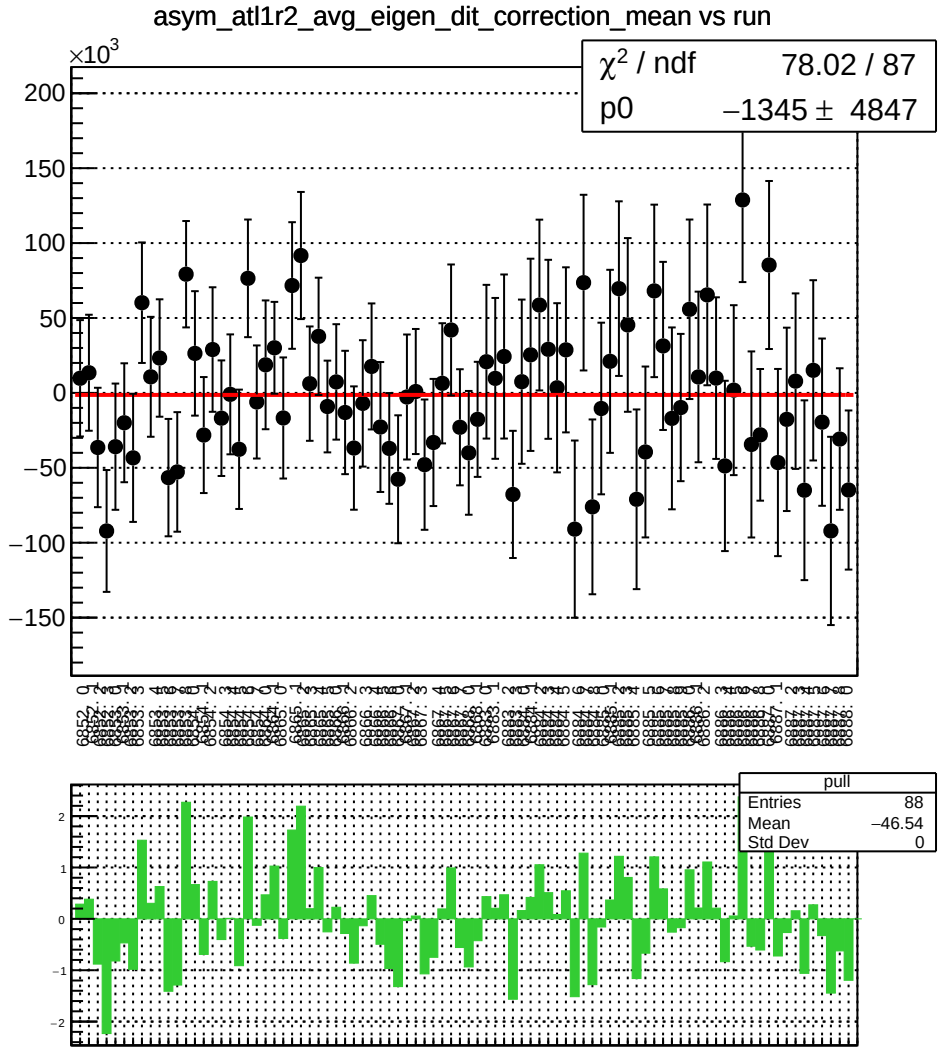

pull1D
Entries 88
Mean 0.005247
Std Dev 0.9416
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

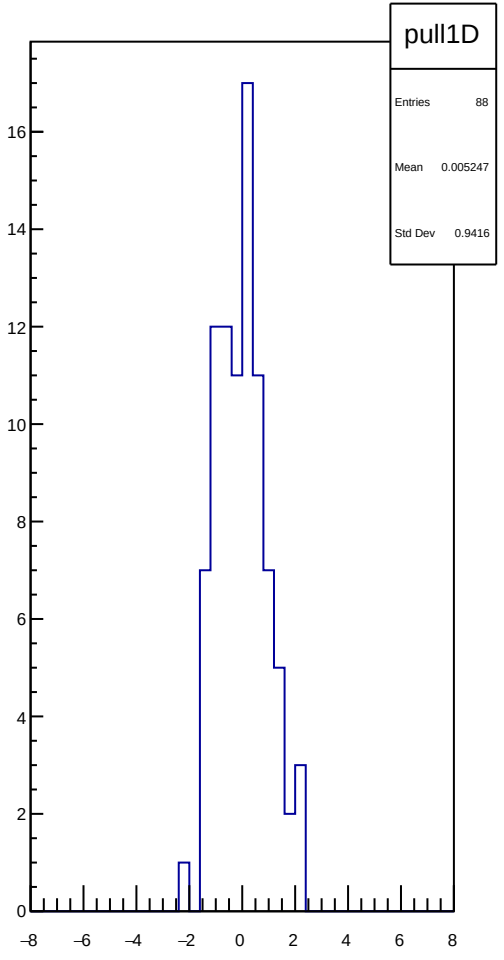

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 5.002e+04 / 87
p0 4390 ± 3.427
6000
5500
5000
4500
4000
3500

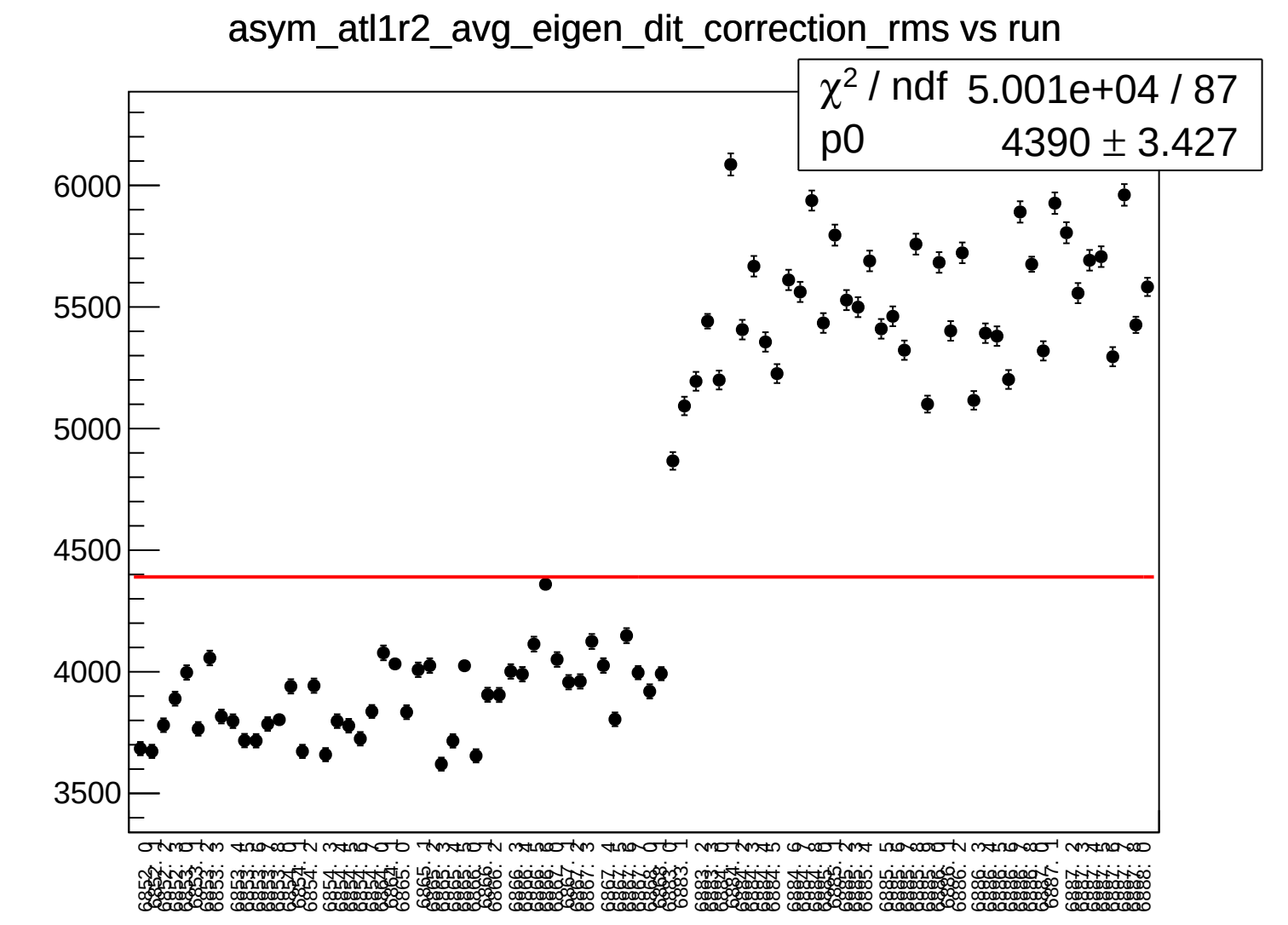

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 80.64 / 87
p0 1142 ± 1877
pull
Entries 88
Mean −431.7
Std Dev 0

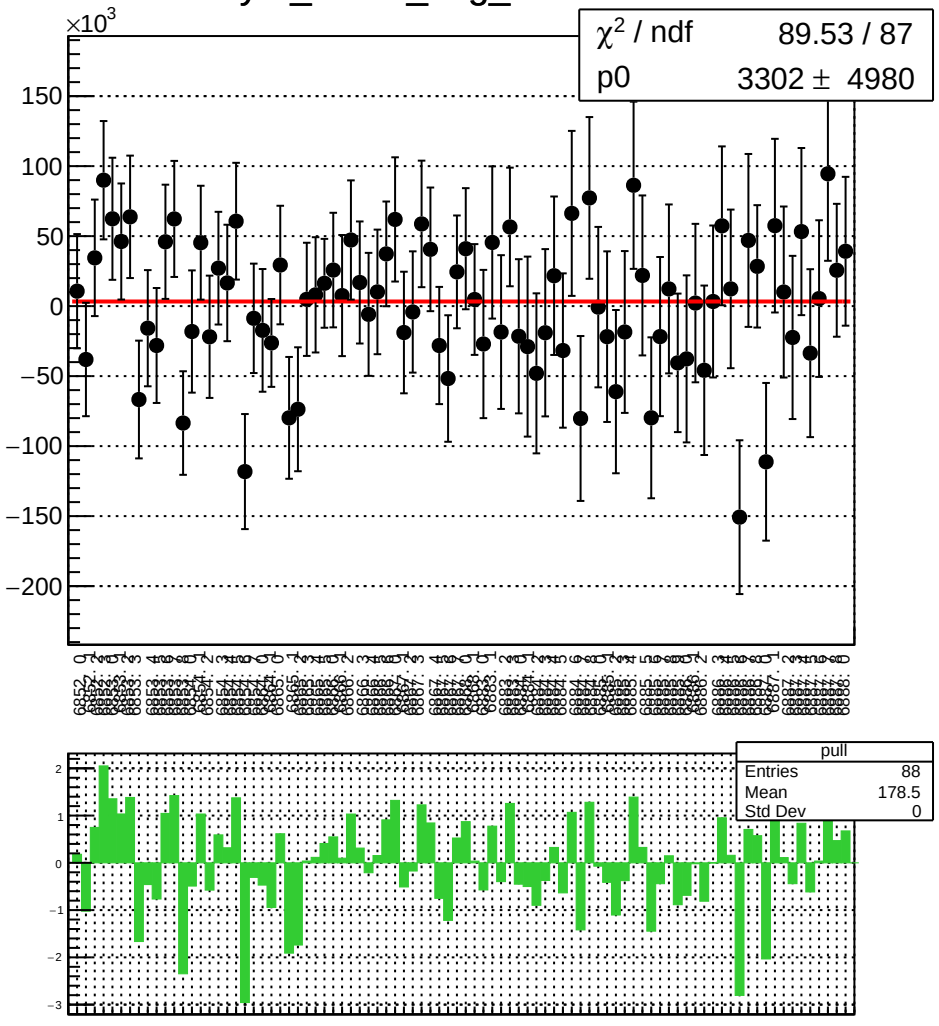

pull1D
Entries 88
Mean 0.01078
Std Dev 0.9572

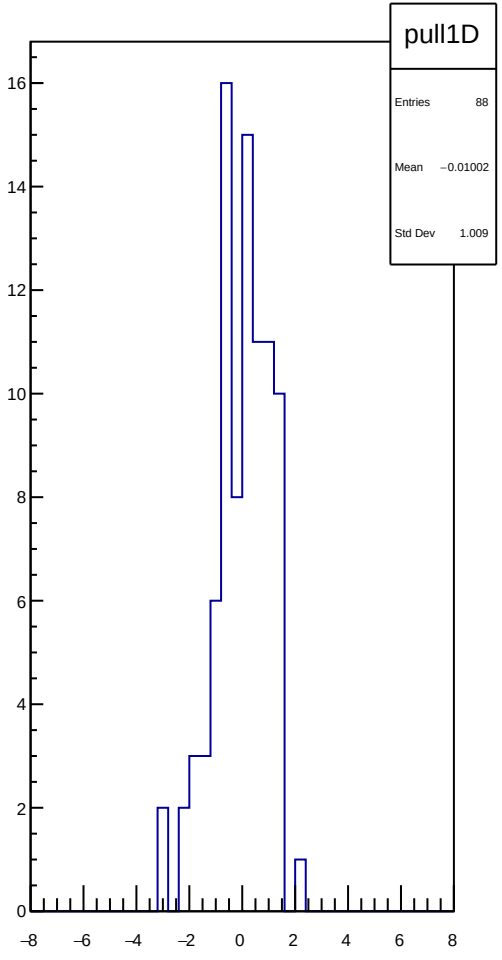

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 247.4 / 87
p0 1725 ± 1.327
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

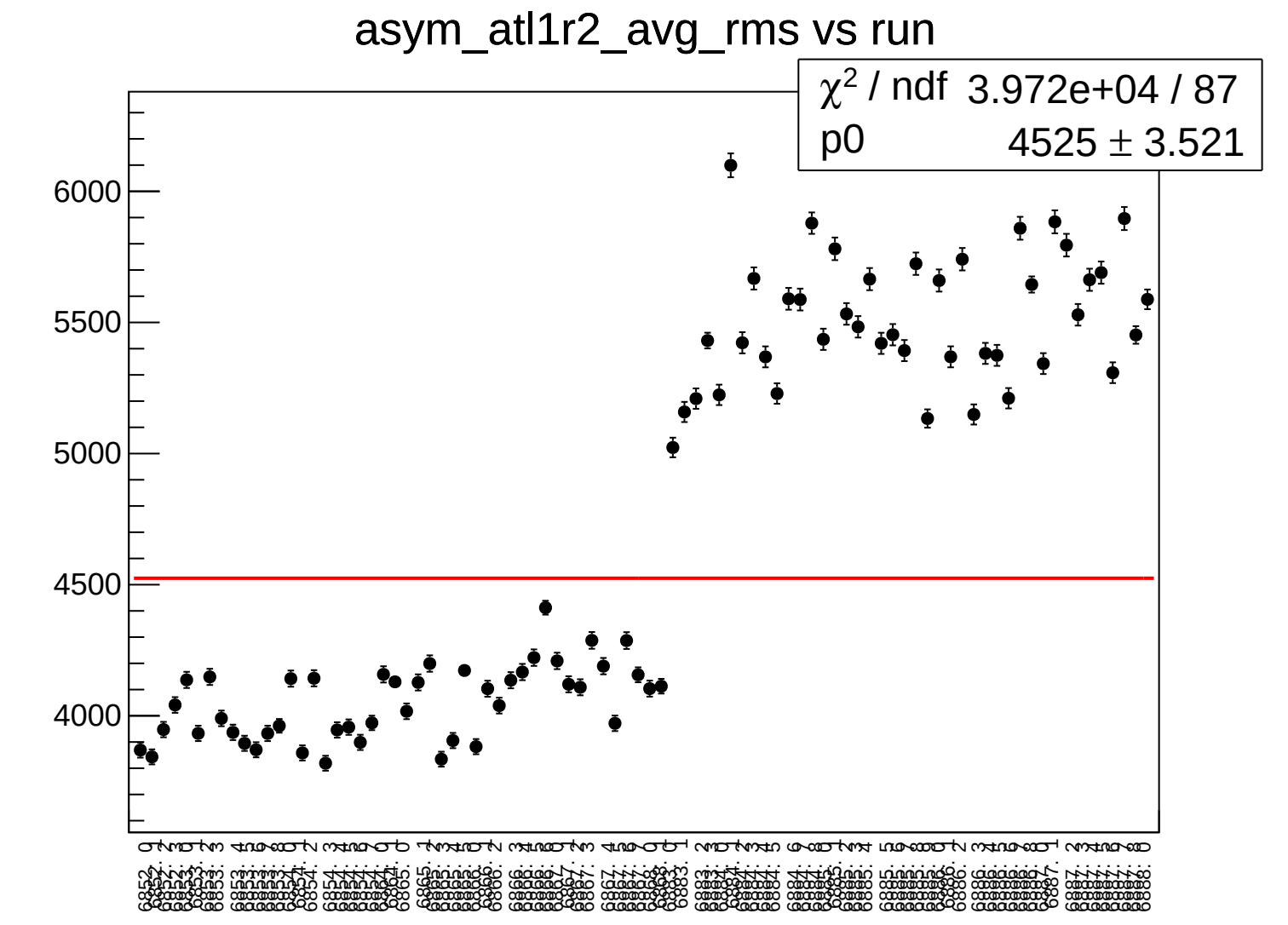

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 78.02 / 87
p0 −1345 ± 4847
pull
Entries 88
Mean −46.54
Std Dev 0

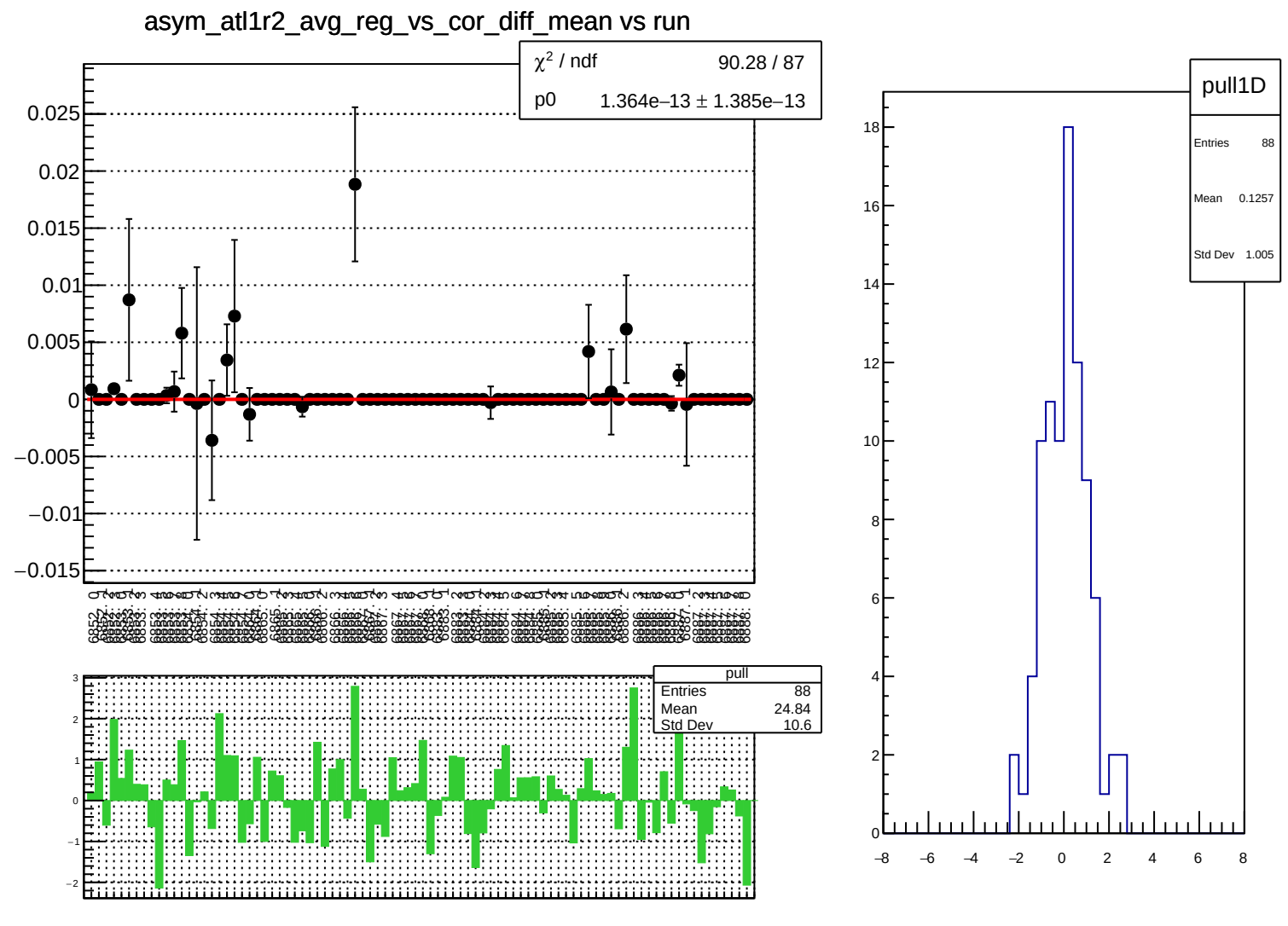

pull1D
Entries 88
Mean 0.005247
Std Dev 0.9416

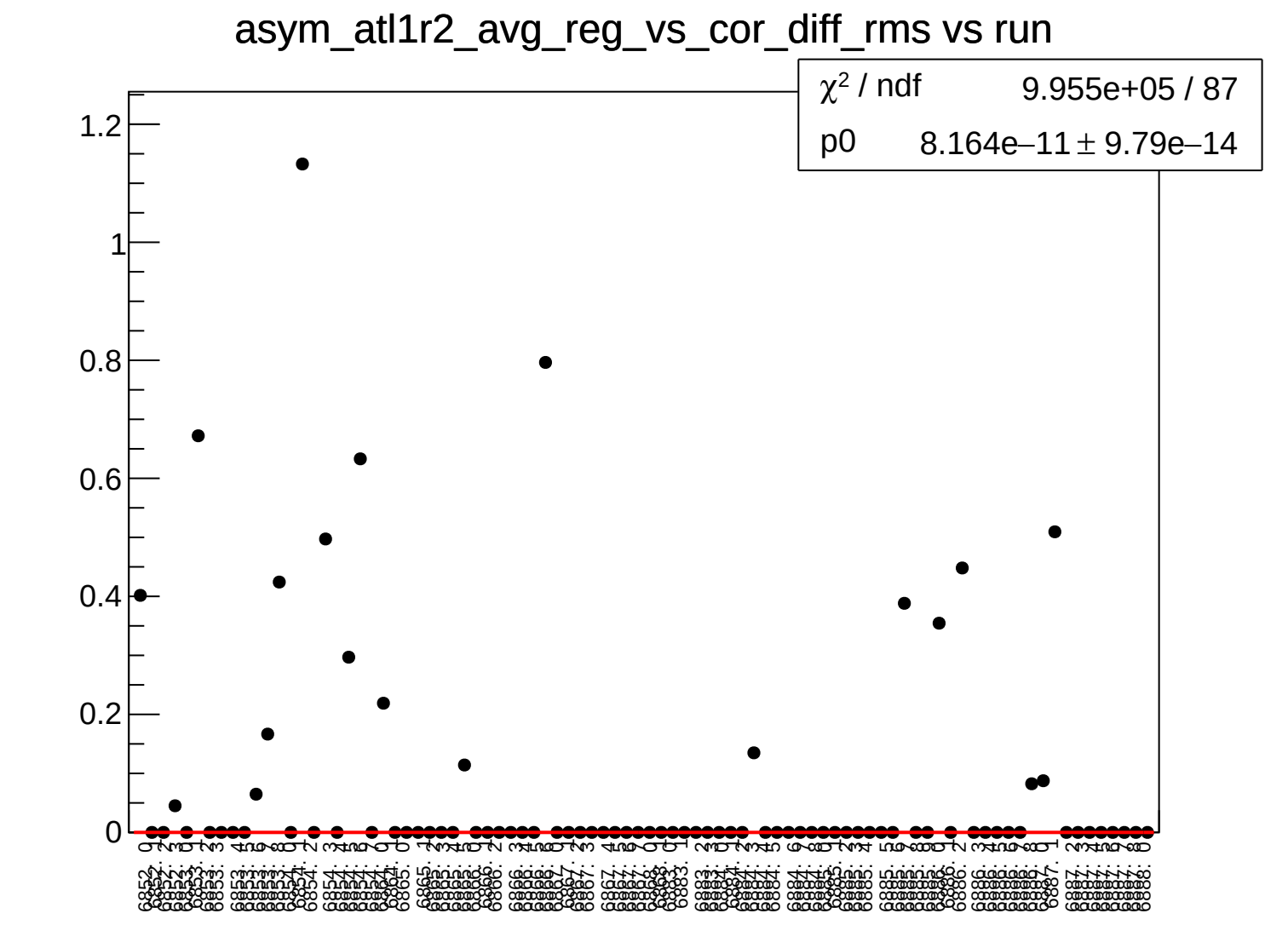

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.001e+04 / 87
p0 4390 ± 3.427
6000
5500
5000
4500
4000
3500

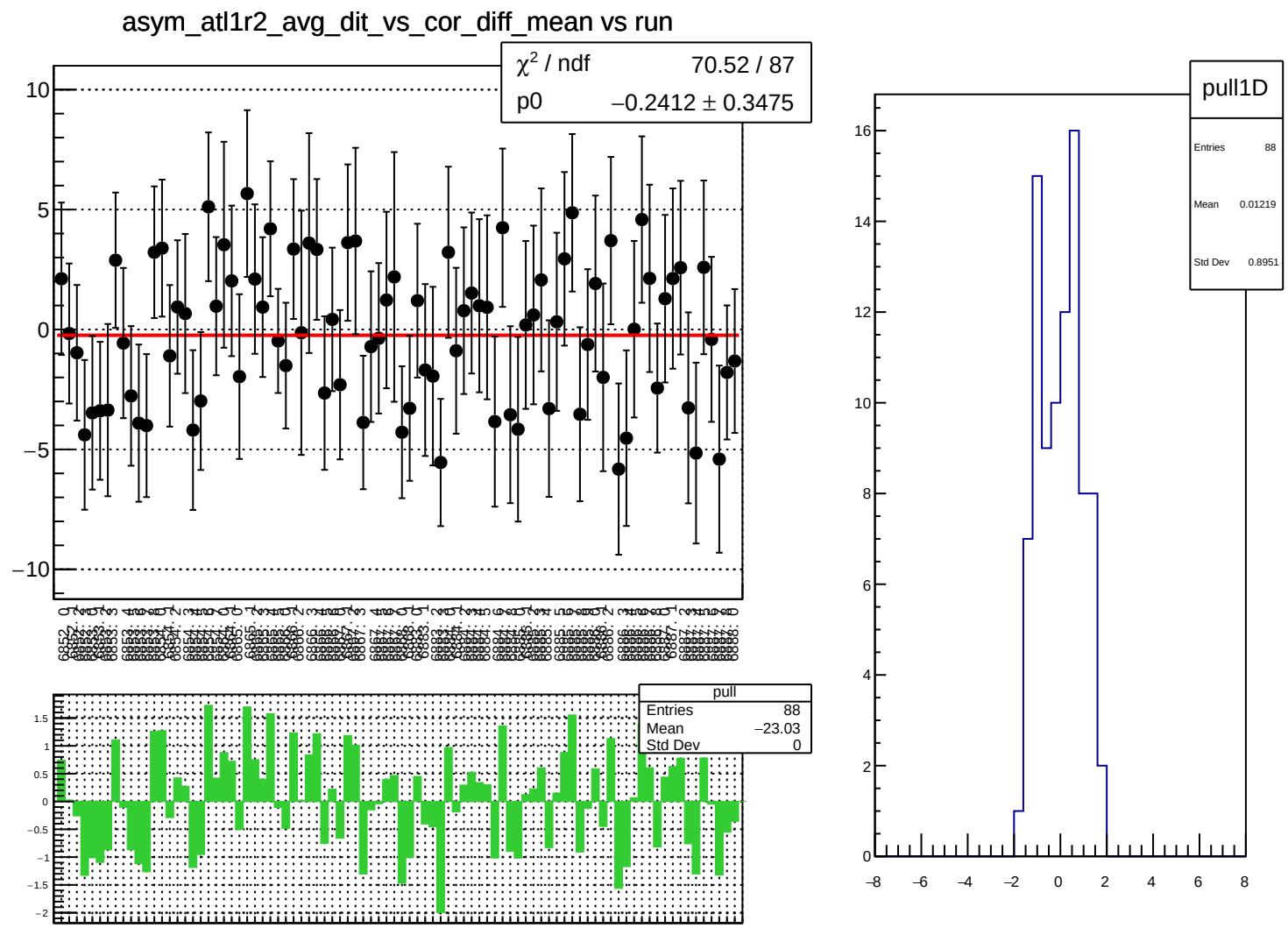

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 89.53 / 87
p0 3302 ± 4980
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 178.5
Std Dev 0
2
1
0
−1
−2
−3

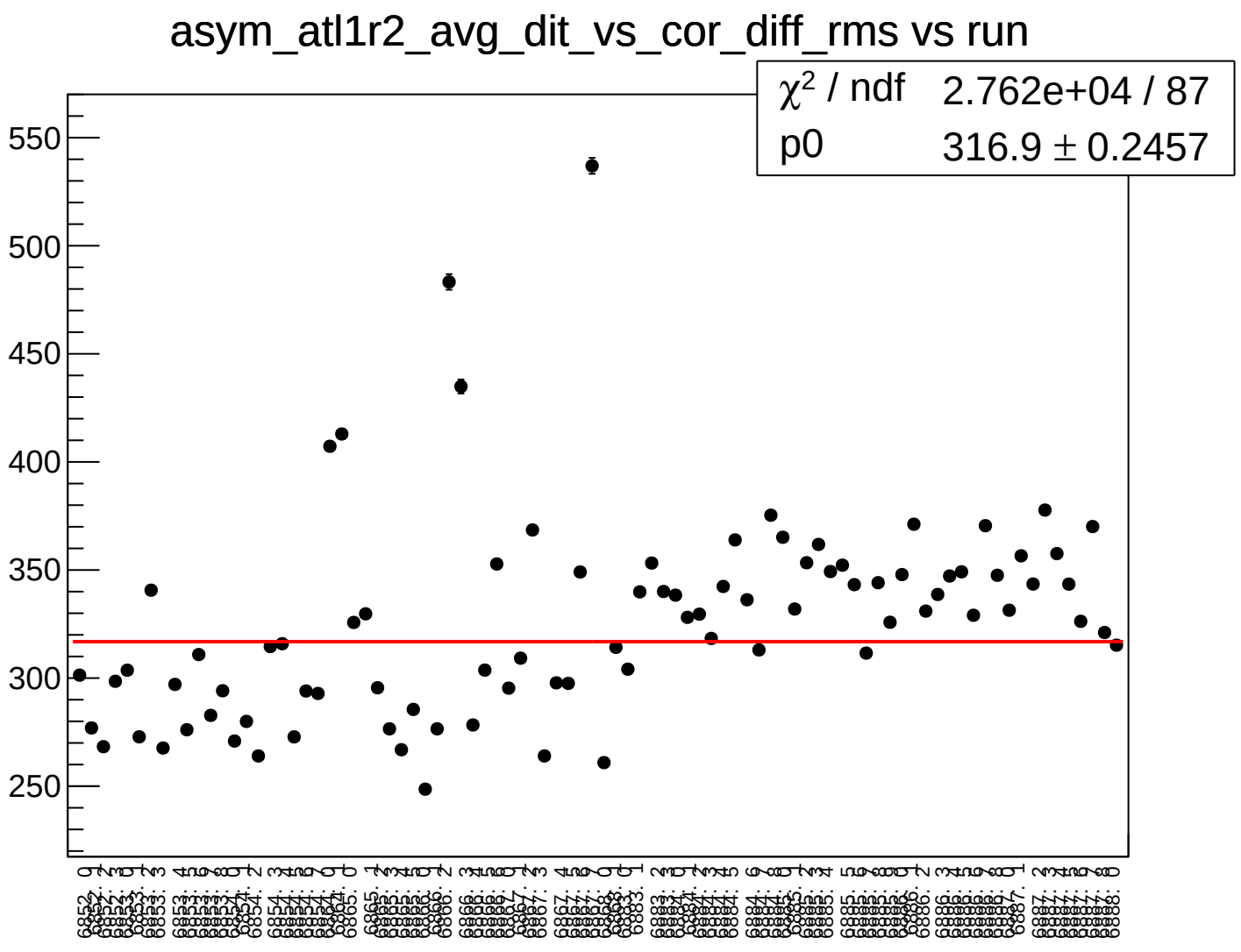

pull1D
Entries 88
Mean −0.01002
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

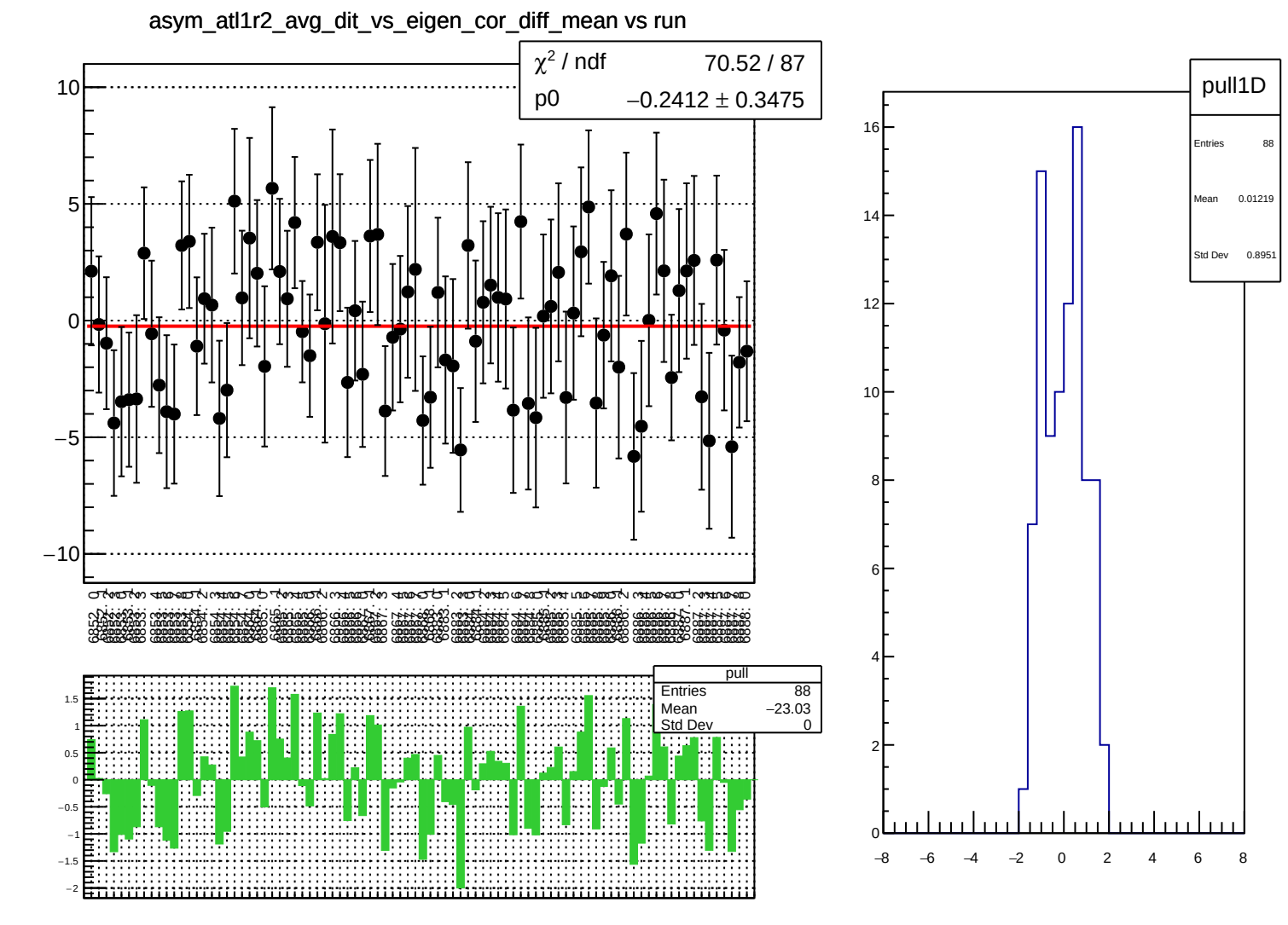

asym_atl1r2_avg_rms vs run
χ² / ndf 3.972e+04 / 87
p0 4525 ± 3.521
6000
5500
5000
4500
4000

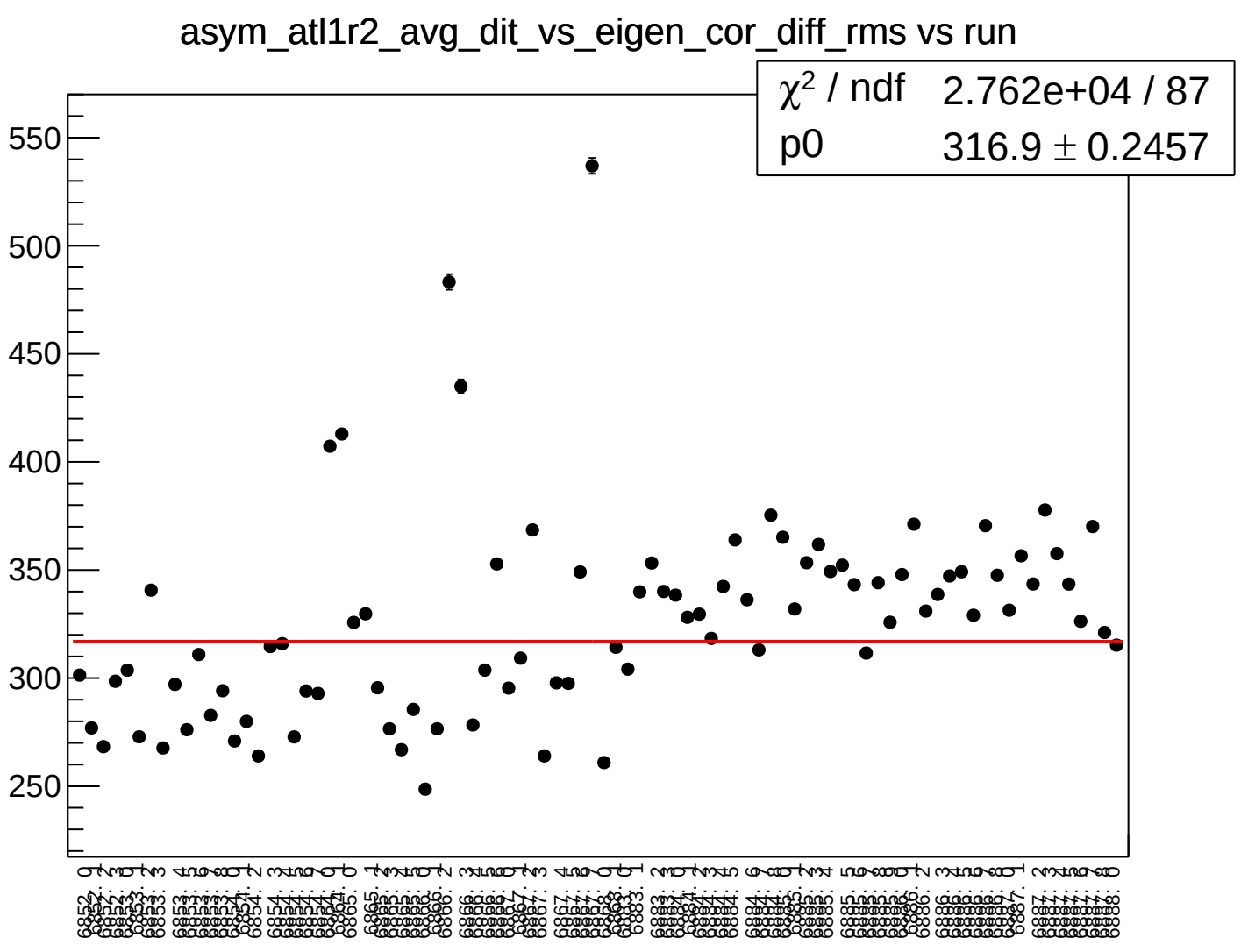

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.28 / 87
p0 1.364e−13 ± 1.385e−13
pull
Entries 88
Mean 24.84
Std Dev 10.6
pull1D
Entries 88
Mean 0.1257
Std Dev 1.005

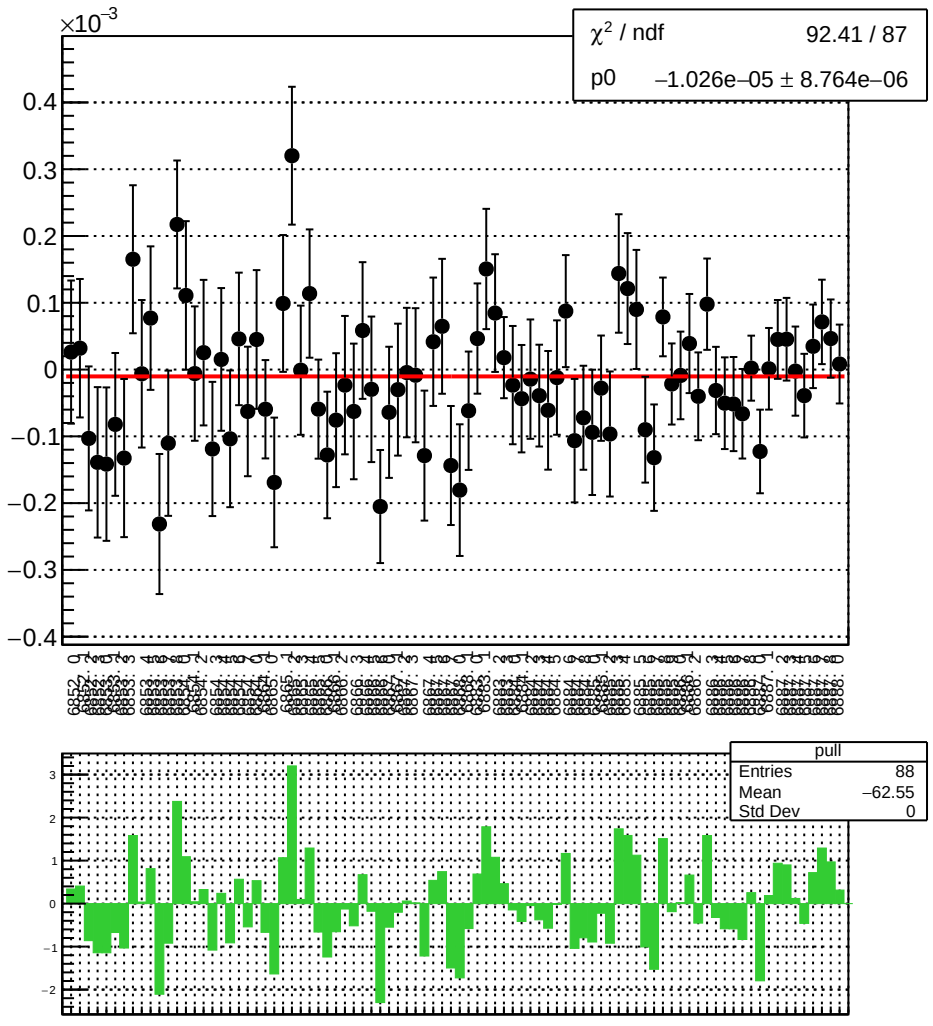

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.955e+05 / 87
p0 8.164e−11 ± 9.79e−14
1.2
1
0.8
0.6
0.4
0.2
0

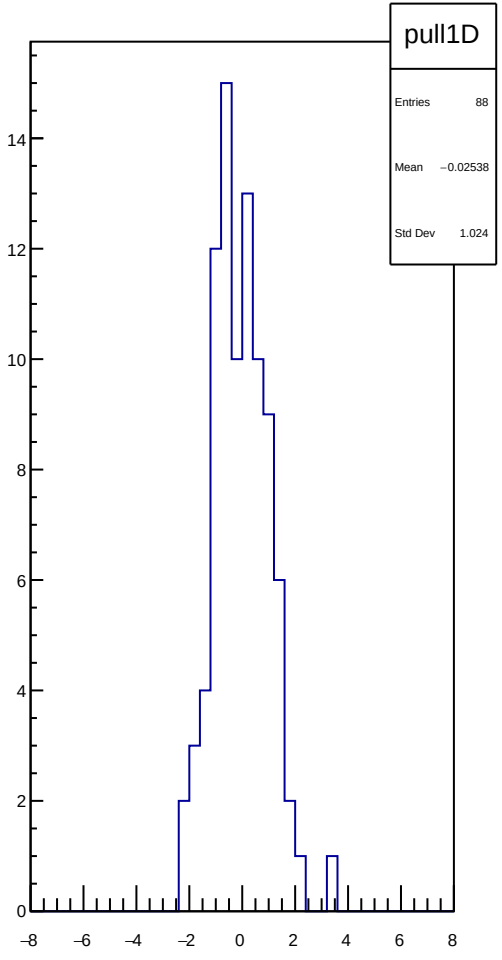

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.52 / 87
p0 −0.2412 ± 0.3475
pull
Entries 88
Mean −23.03
Std Dev 0
pull1D
Entries 88
Mean 0.01219
Std Dev 0.8951

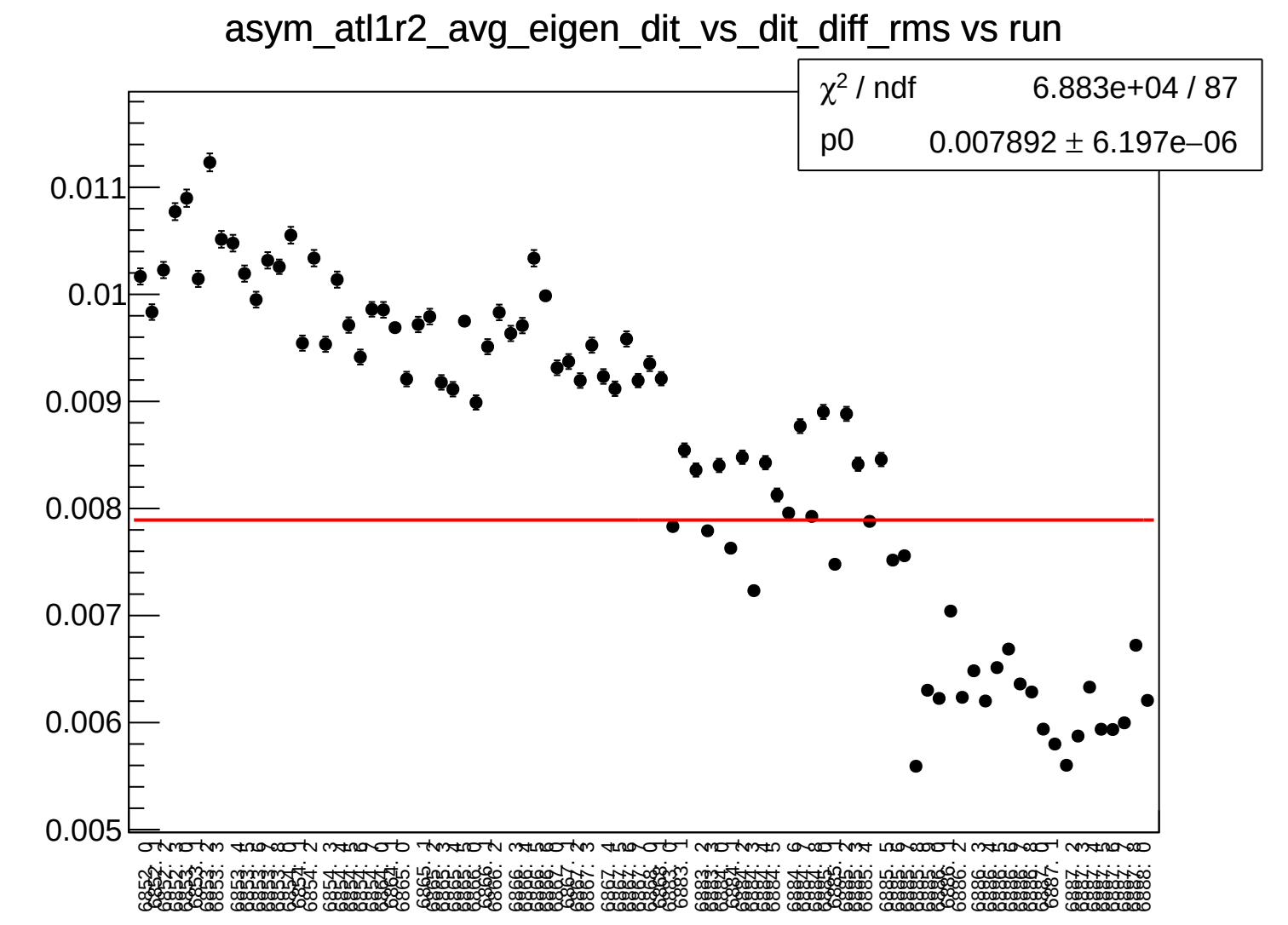

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.762e+04 / 87
p0 316.9 ± 0.2457
550
500
450
400
350
300
250

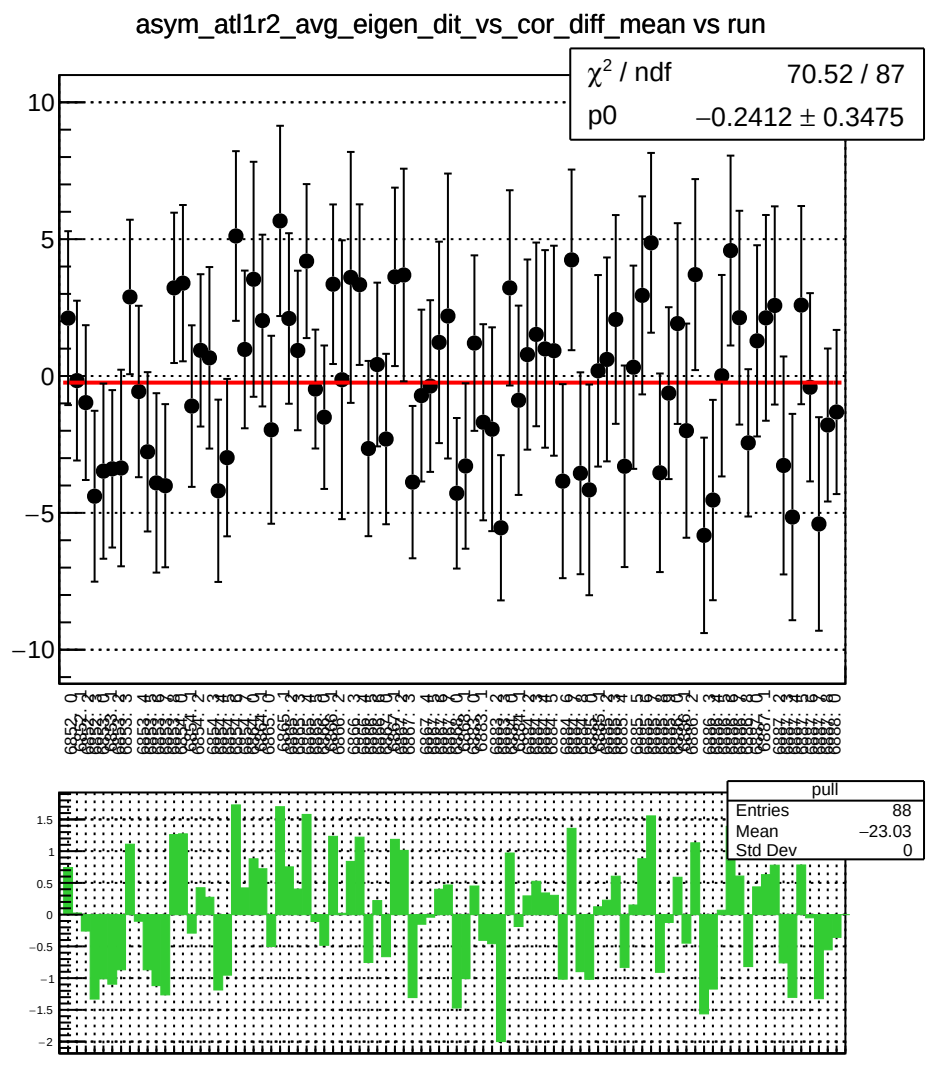

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.52 / 87
p0 −0.2412 ± 0.3475
pull
Entries 88
Mean −23.03
Std Dev 0
pull1D
Entries 88
Mean 0.01219
Std Dev 0.8951

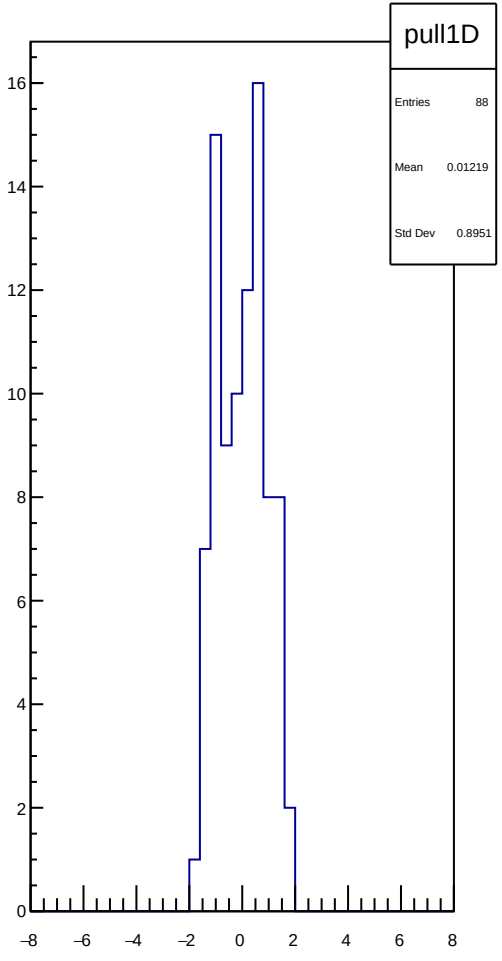

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.762e+04 / 87
p0 316.9 ± 0.2457
550
500
450
400
350
300
250

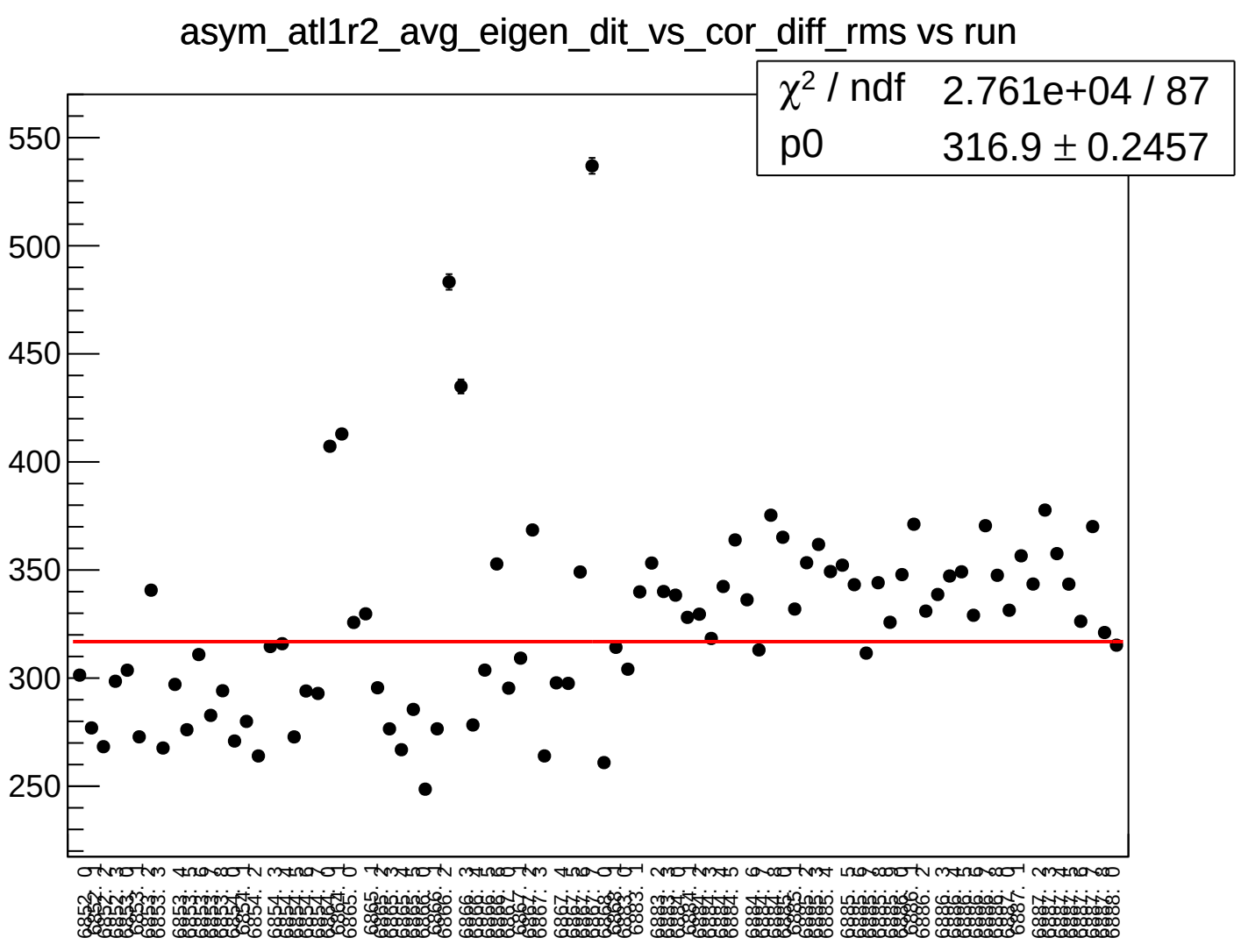

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.41 / 87
p0 −1.026e−05 ± 8.764e−06
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 88
Mean −62.55
Std Dev 0
3
2
1
0
−1
−2

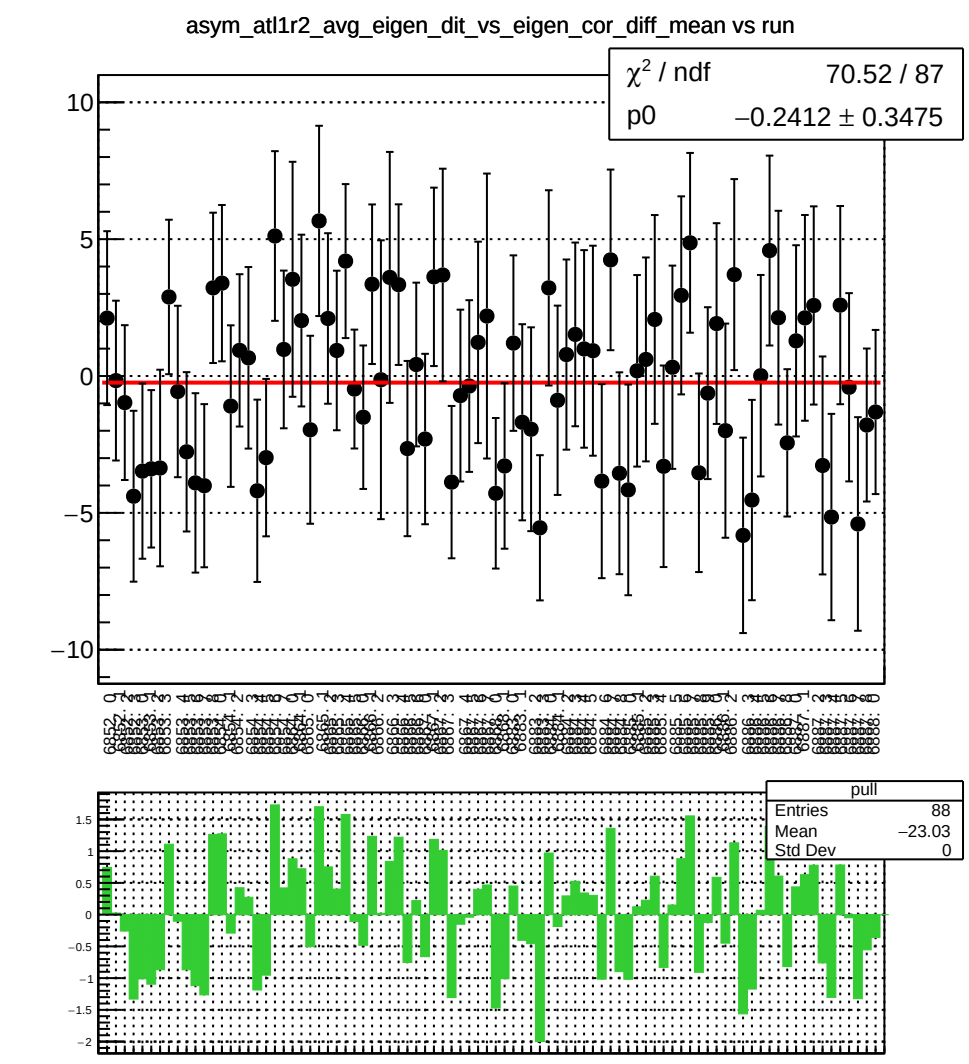

pull1D
Entries 88
Mean −0.02538
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

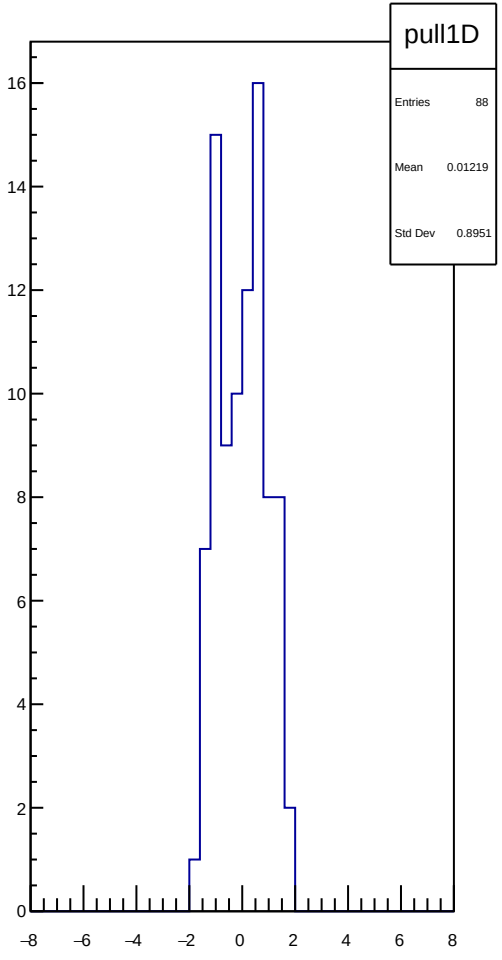

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.883e+04 / 87
p0 0.007892 ± 6.197e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

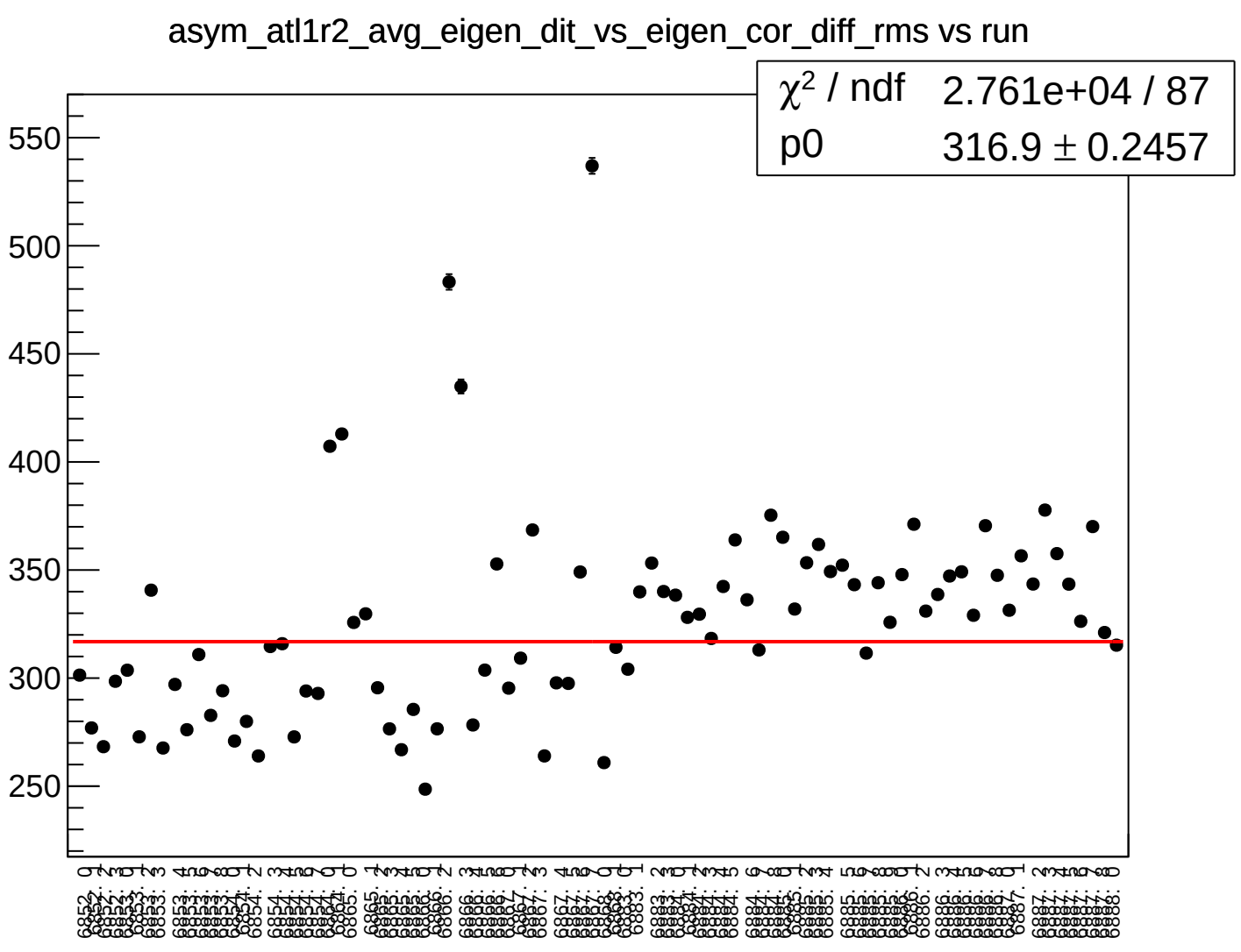

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.52 / 87
p0 −0.2412 ± 0.3475
pull
Entries 88
Mean −23.03
Std Dev 0

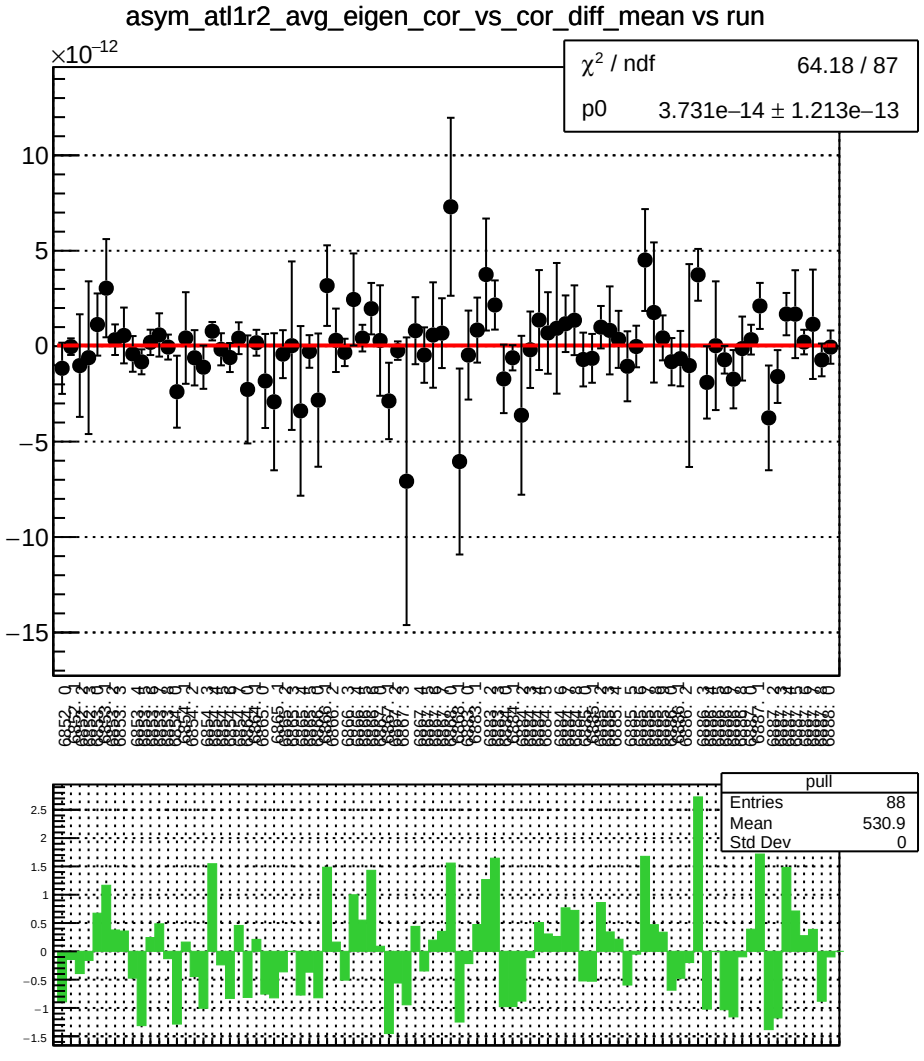

pull1D
Entries 88
Mean 0.01219
Std Dev 0.8951

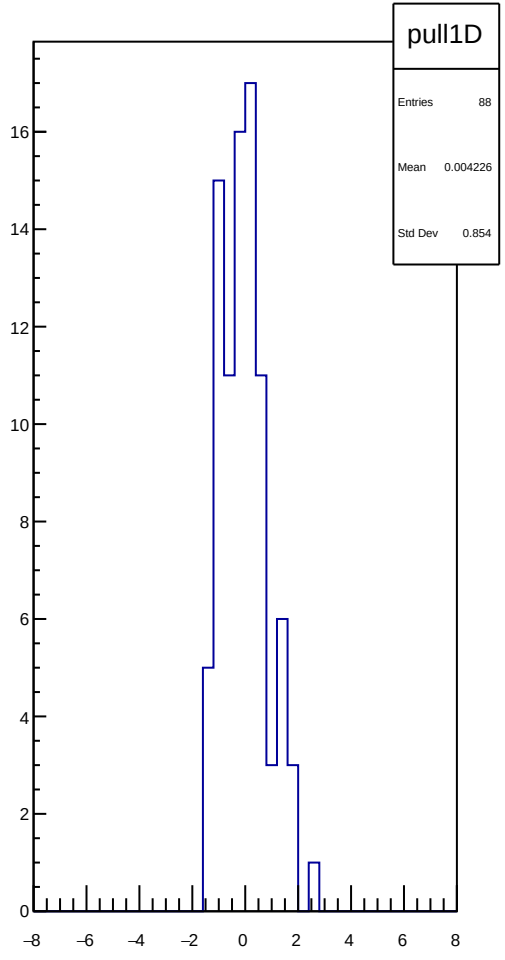

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.761e+04 / 87
p0 316.9 ± 0.2457
550
500
450
400
350
300
250

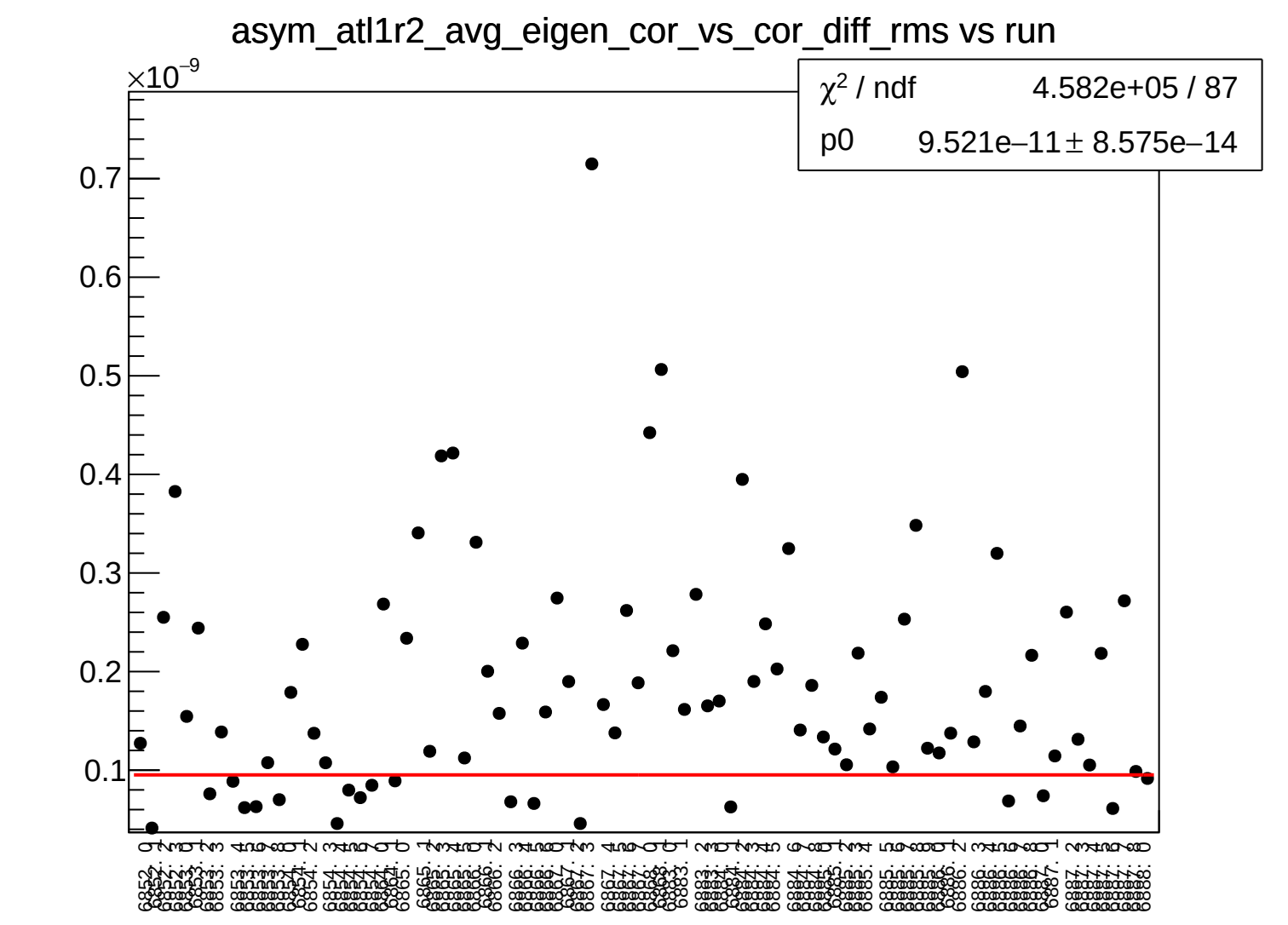

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.52 / 87
p0 −0.2412 ± 0.3475
pull
Entries 88
Mean −23.03
Std Dev 0

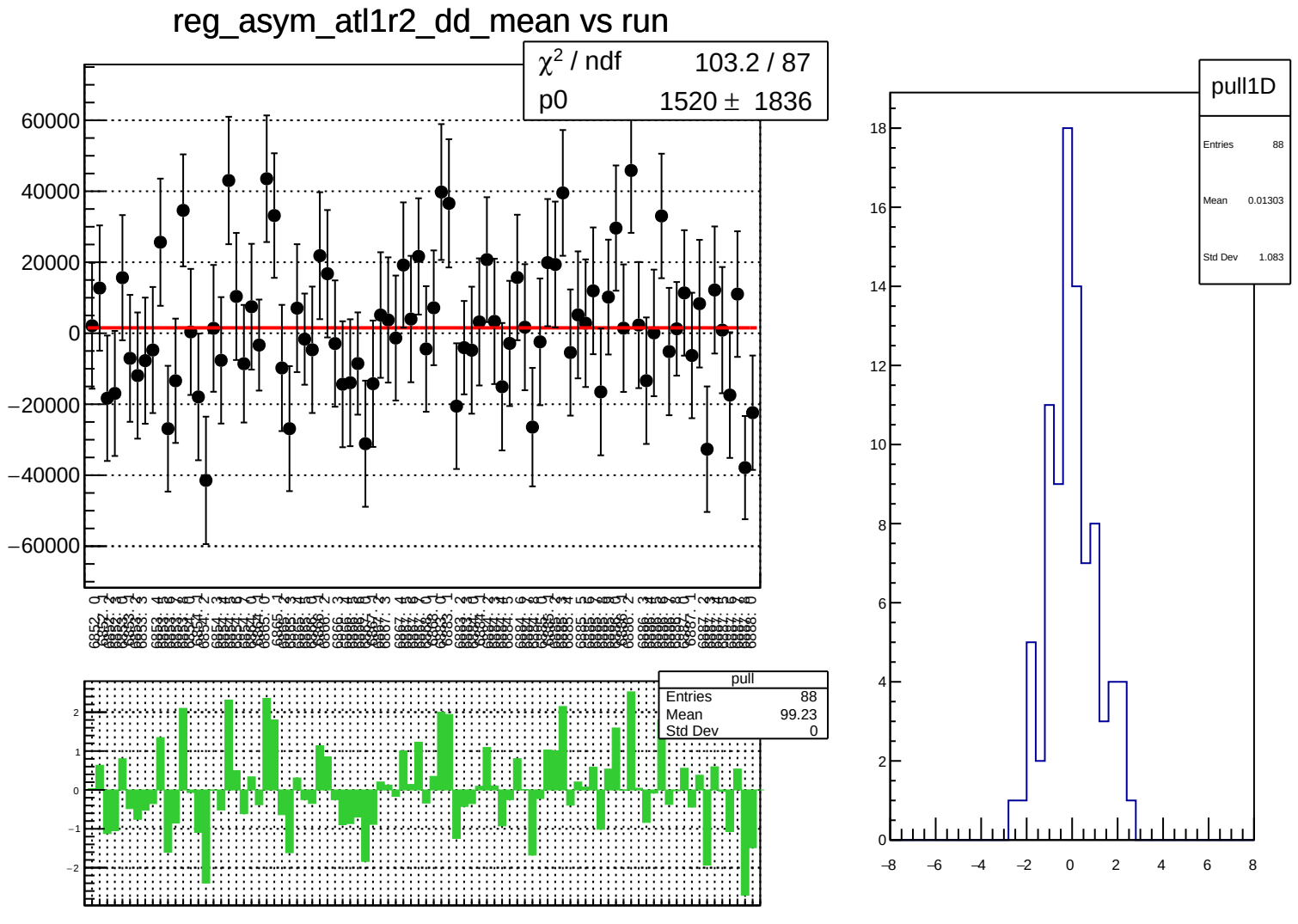

pull1D
Entries 88
Mean 0.01219
Std Dev 0.8951

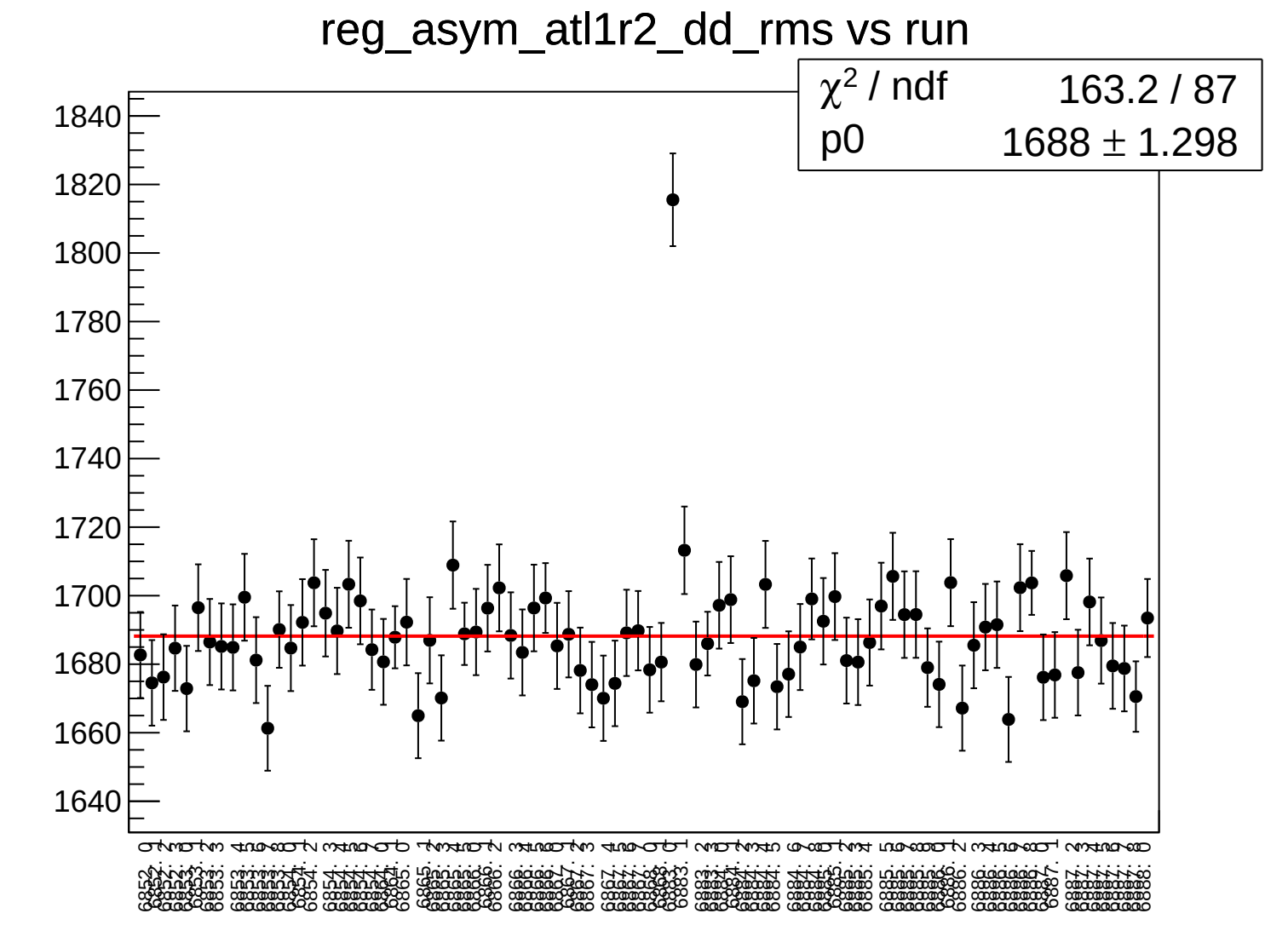

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.761e+04 / 87
p0 316.9 ± 0.2457
550
500
450
400
350
300
250

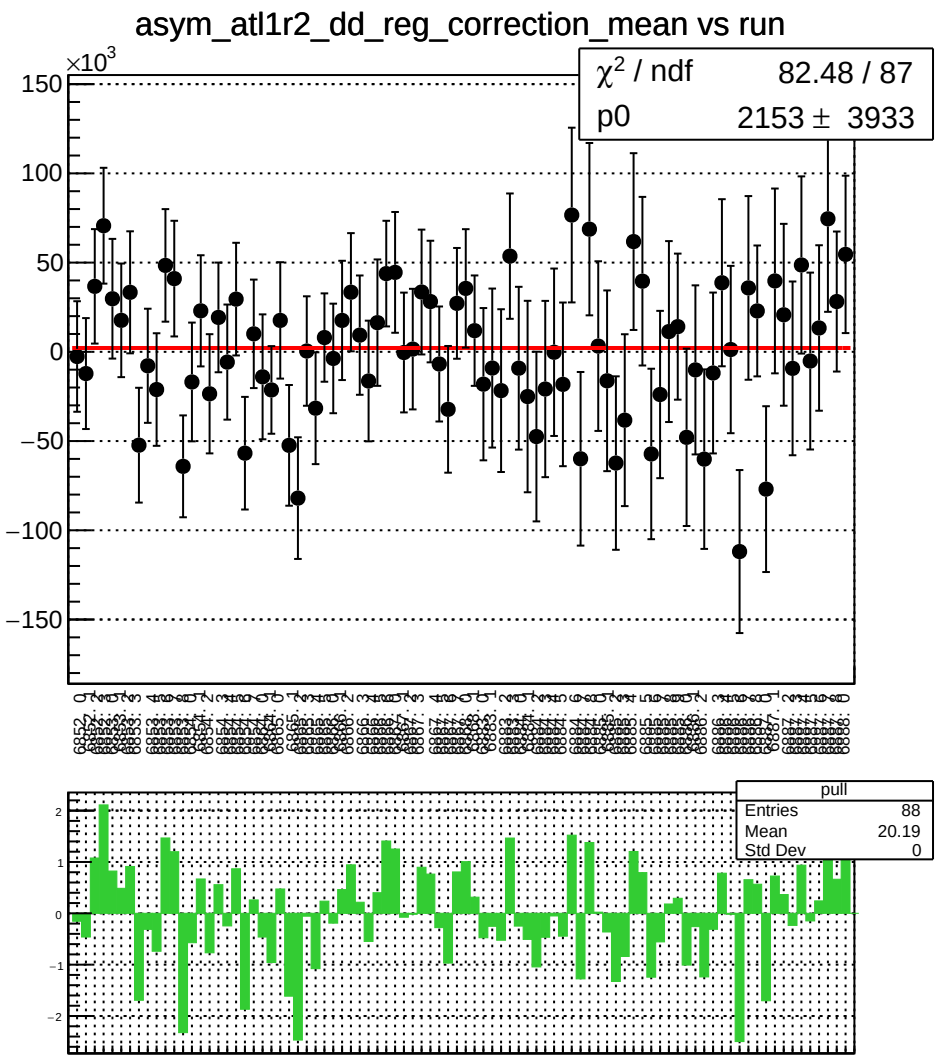

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.18 / 87
p0 3.731e−14 ± 1.213e−13
10
5
0
−5
−10
−15
pull
Entries 88
Mean 530.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

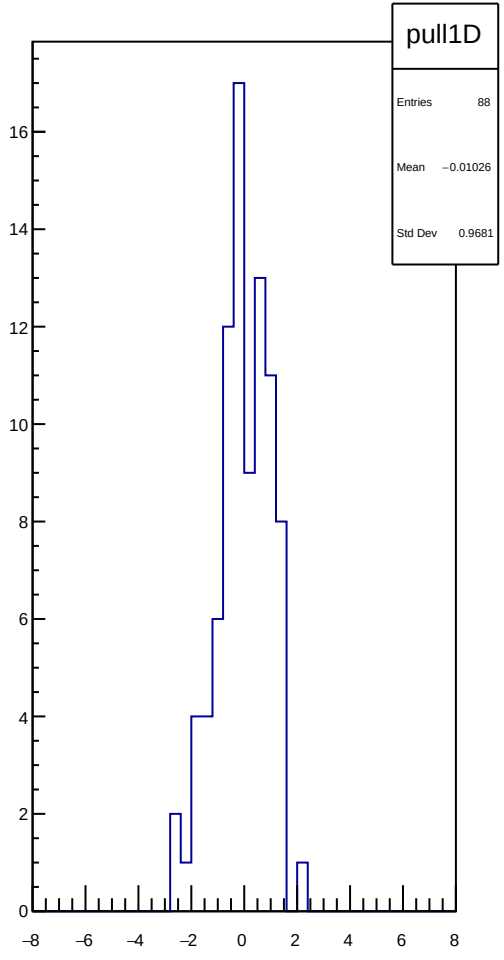

pull1D
Entries 88
Mean 0.004226
Std Dev 0.854
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

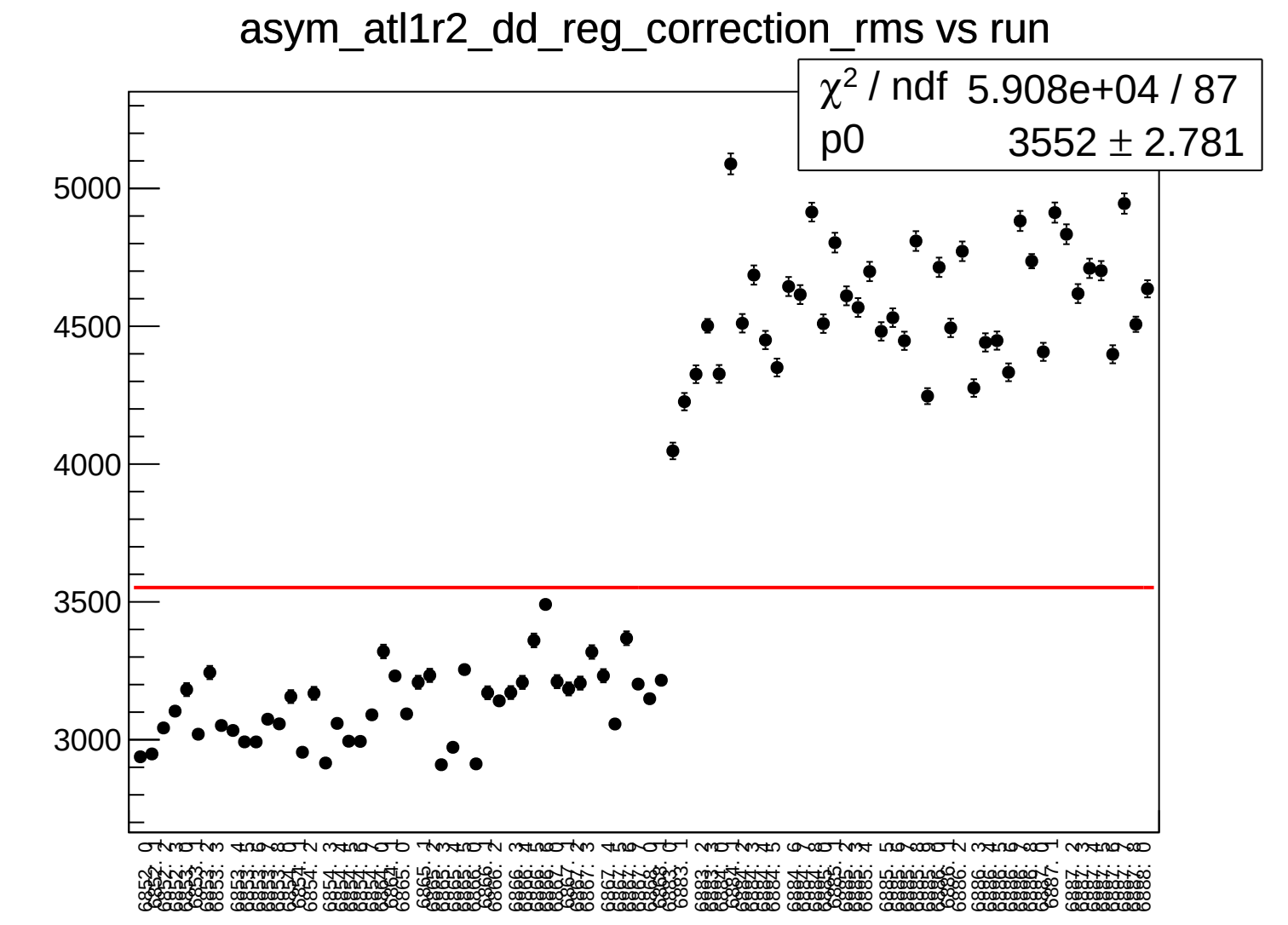

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.582e+05 / 87
p0 9.521e−11 ± 8.575e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

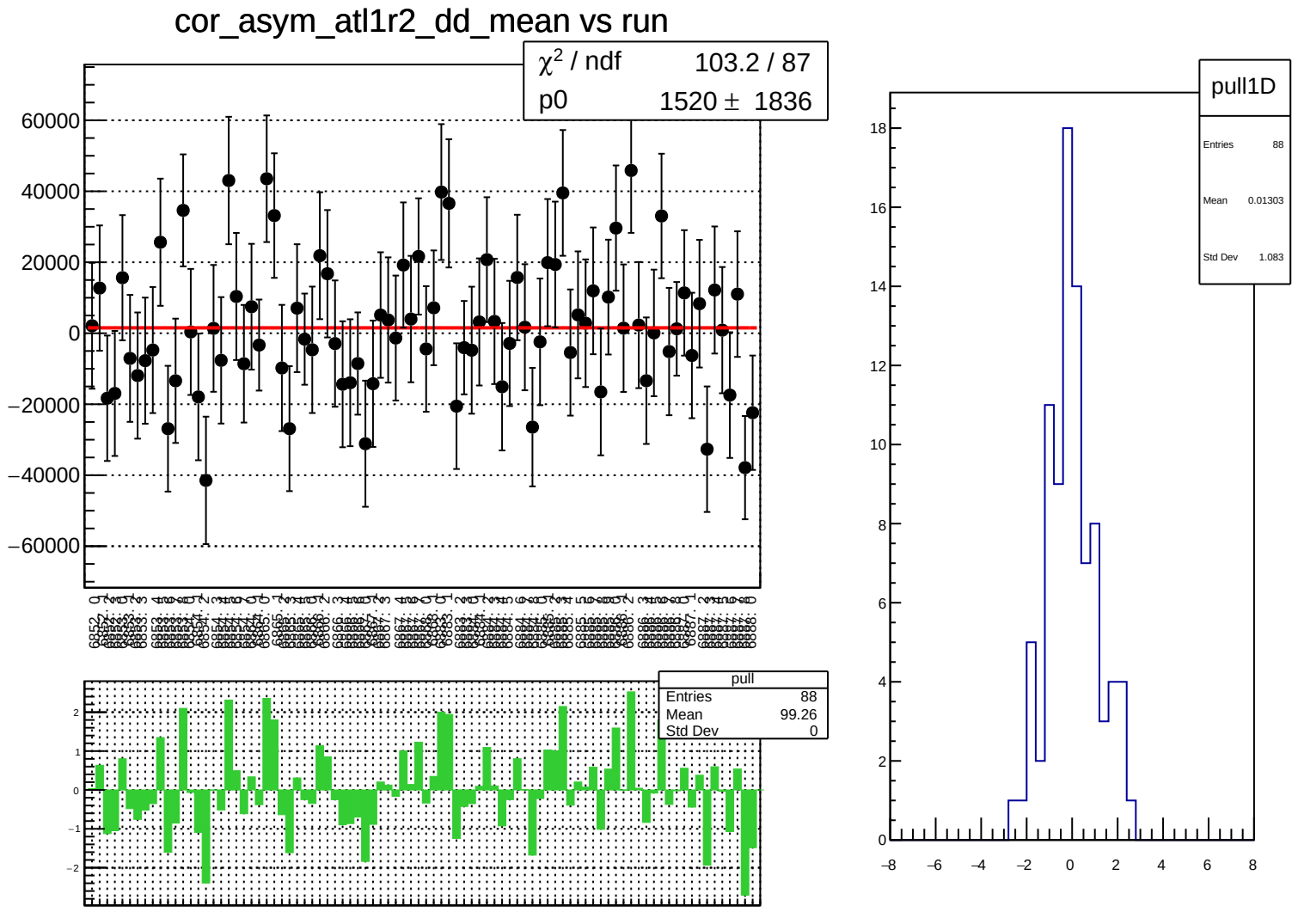

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 103.2 / 87
p0 1520 ± 1836
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 99.23
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01303
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

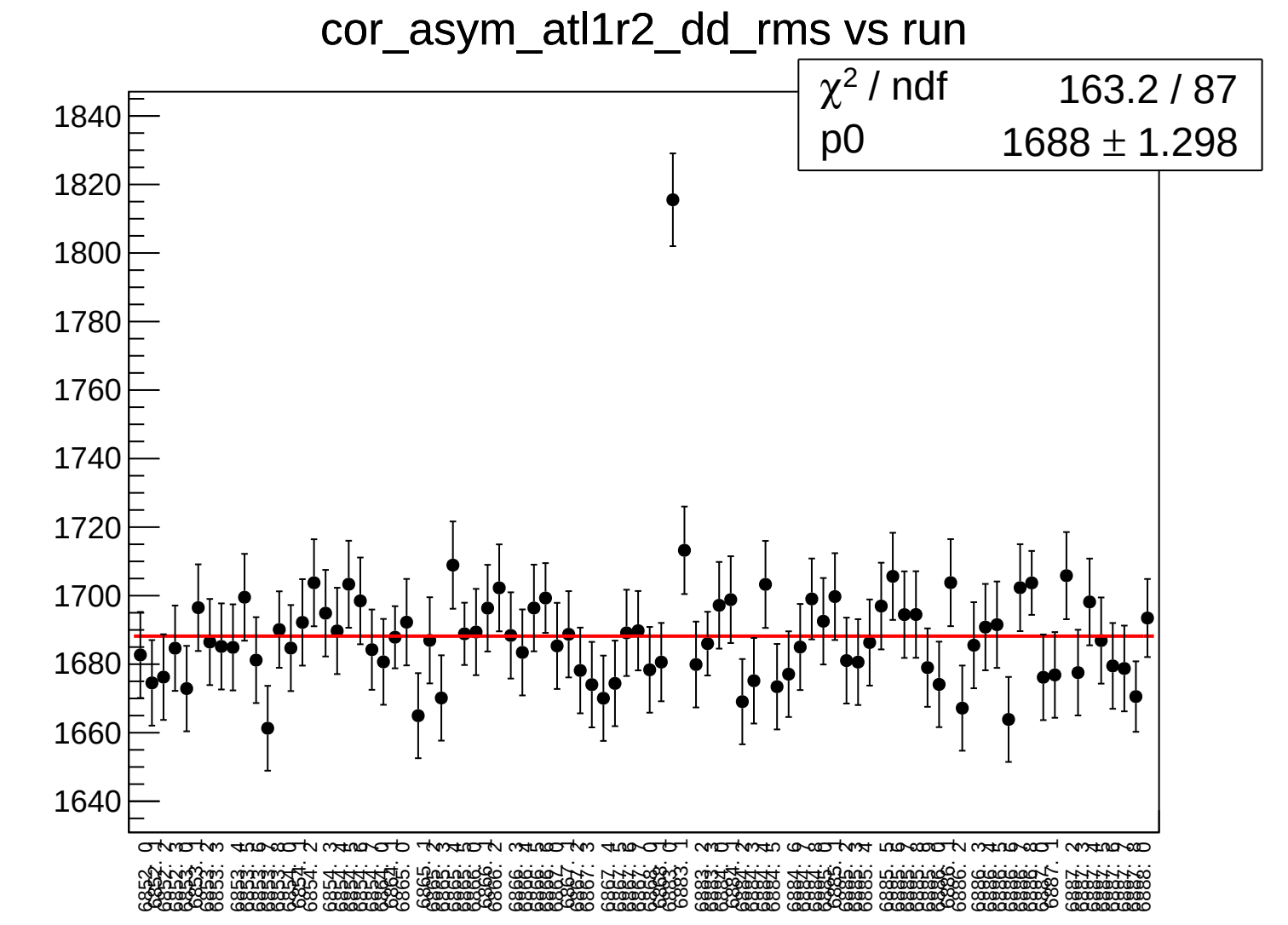

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 163.2 / 87
p0 1688 ± 1.298
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

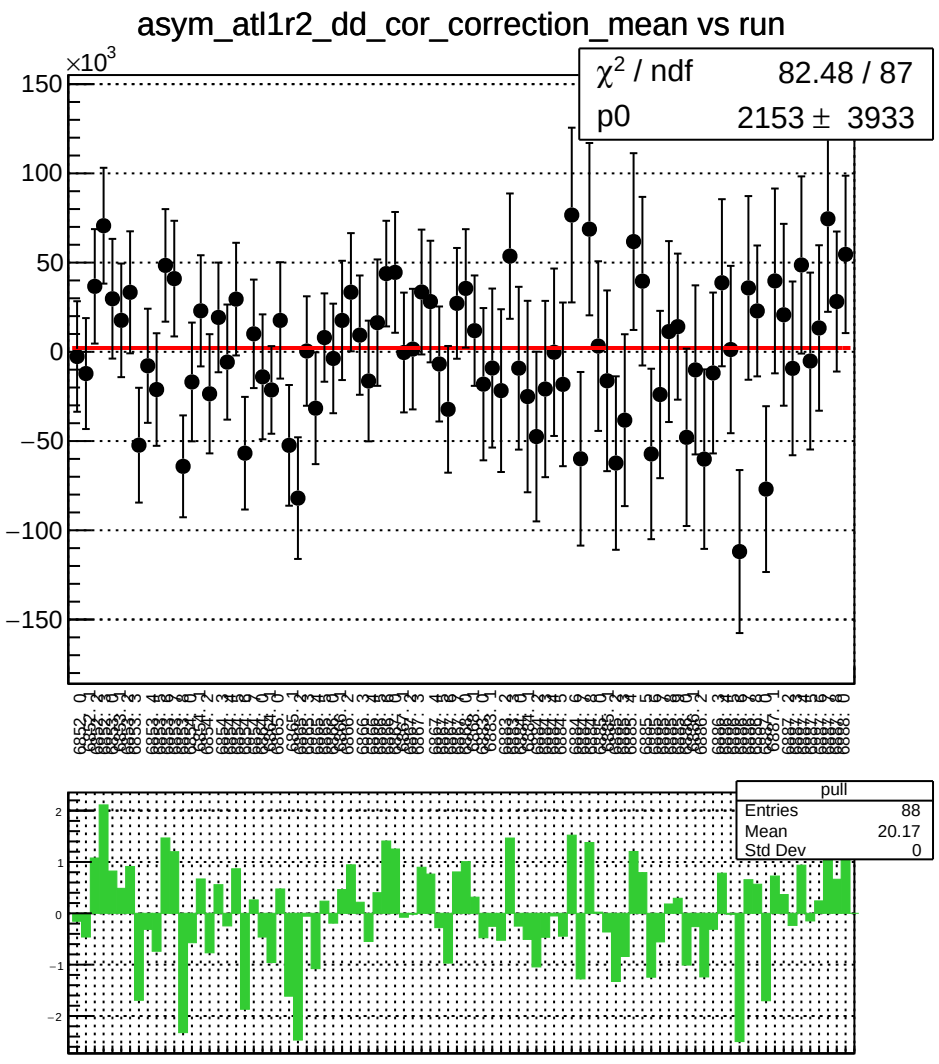

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.48 / 87
p0 2153 ± 3933
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 20.19
Std Dev 0
2
1
0
−1
−2

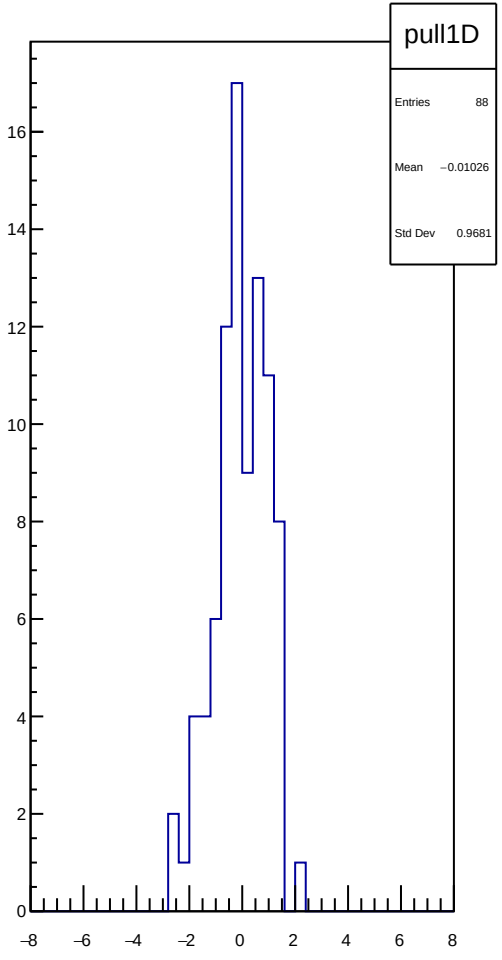

pull1D
Entries 88
Mean −0.01026
Std Dev 0.9681
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

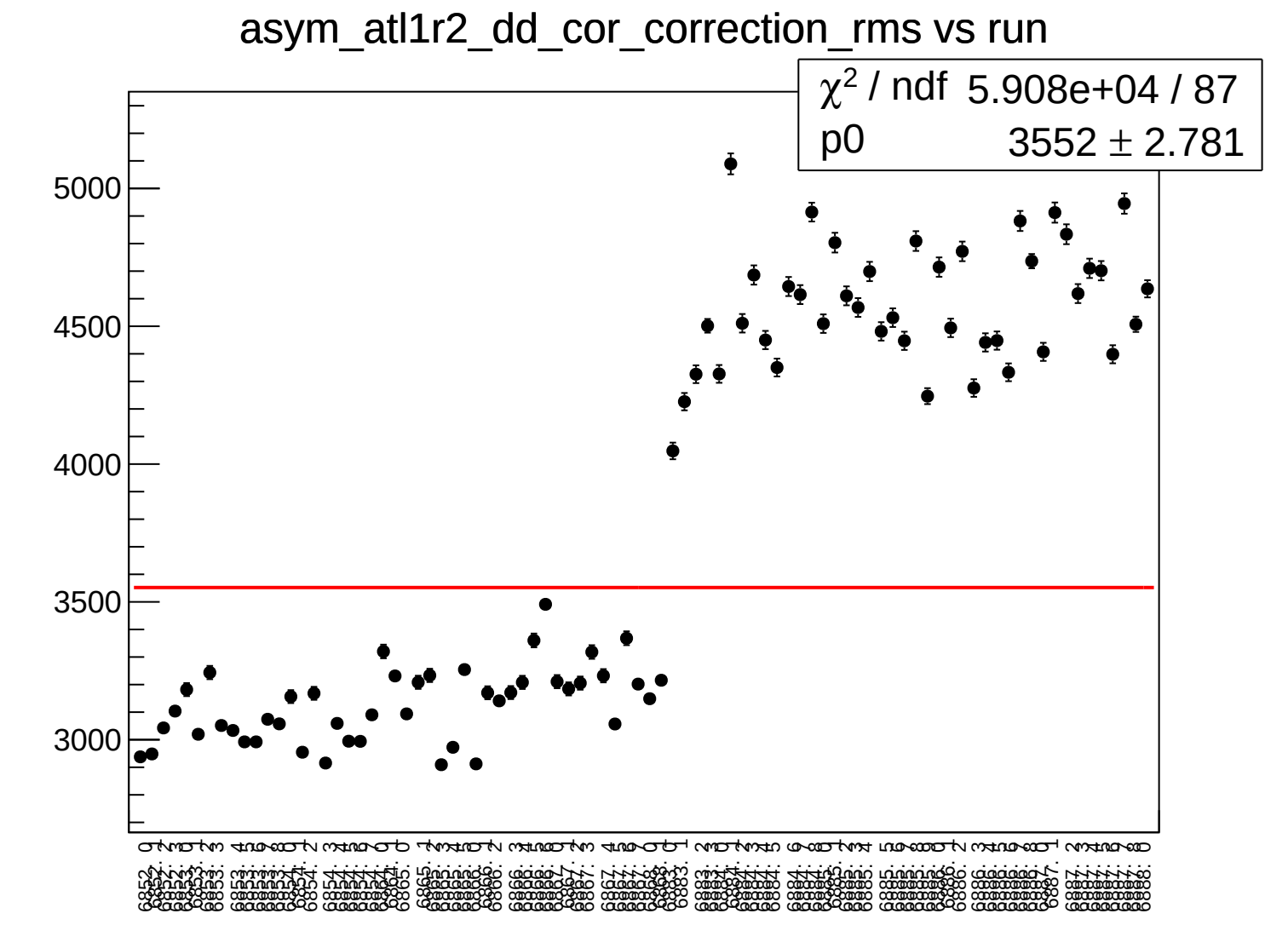

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 5.908e+04 / 87
p0 3552 ± 2.781
5000
4500
4000
3500
3000

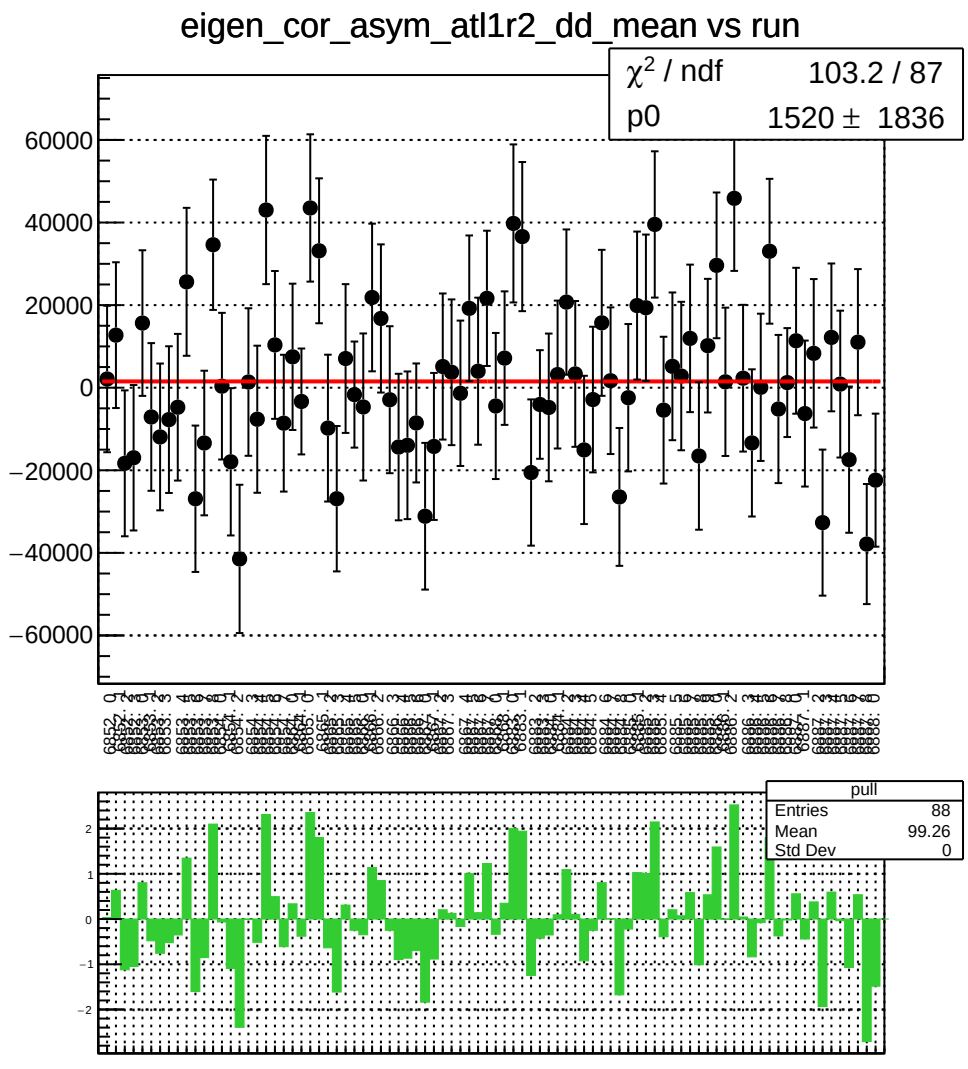

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 103.2 / 87
p0 1520 ± 1836
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 99.26
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01303
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

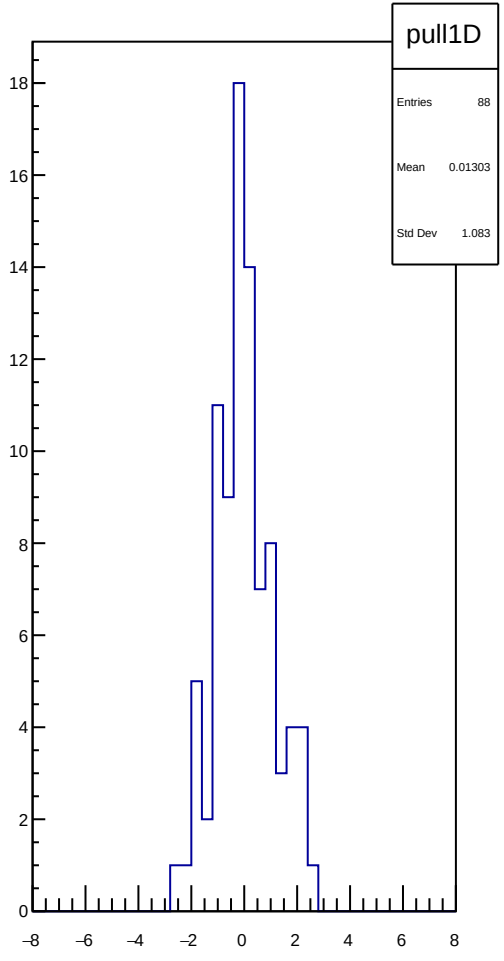

cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 163.2 / 87
p0 1688 ± 1.298
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

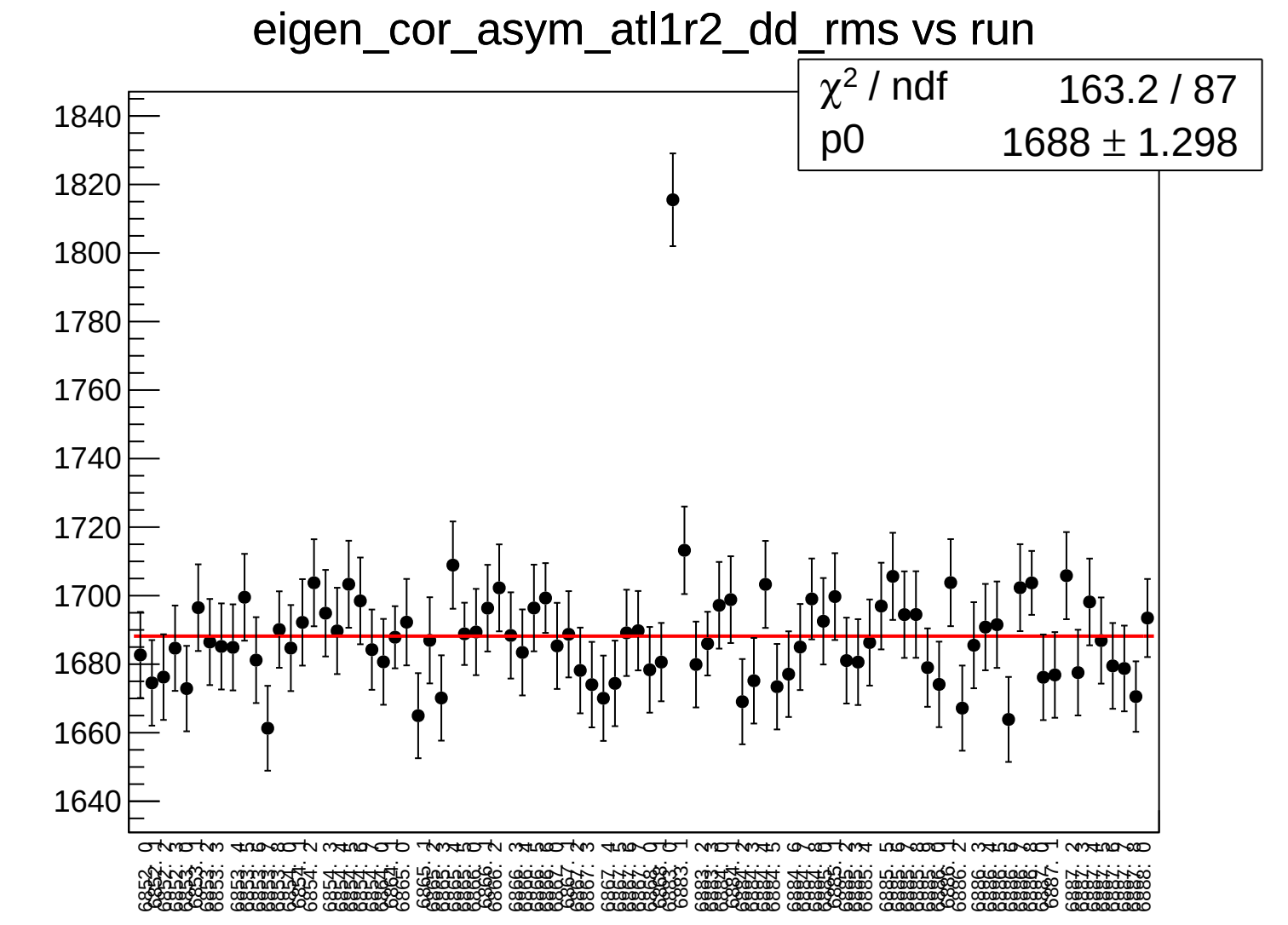

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.48 / 87
p0 2153 ± 3933
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 20.17
Std Dev 0
2
1
0
−1
−2

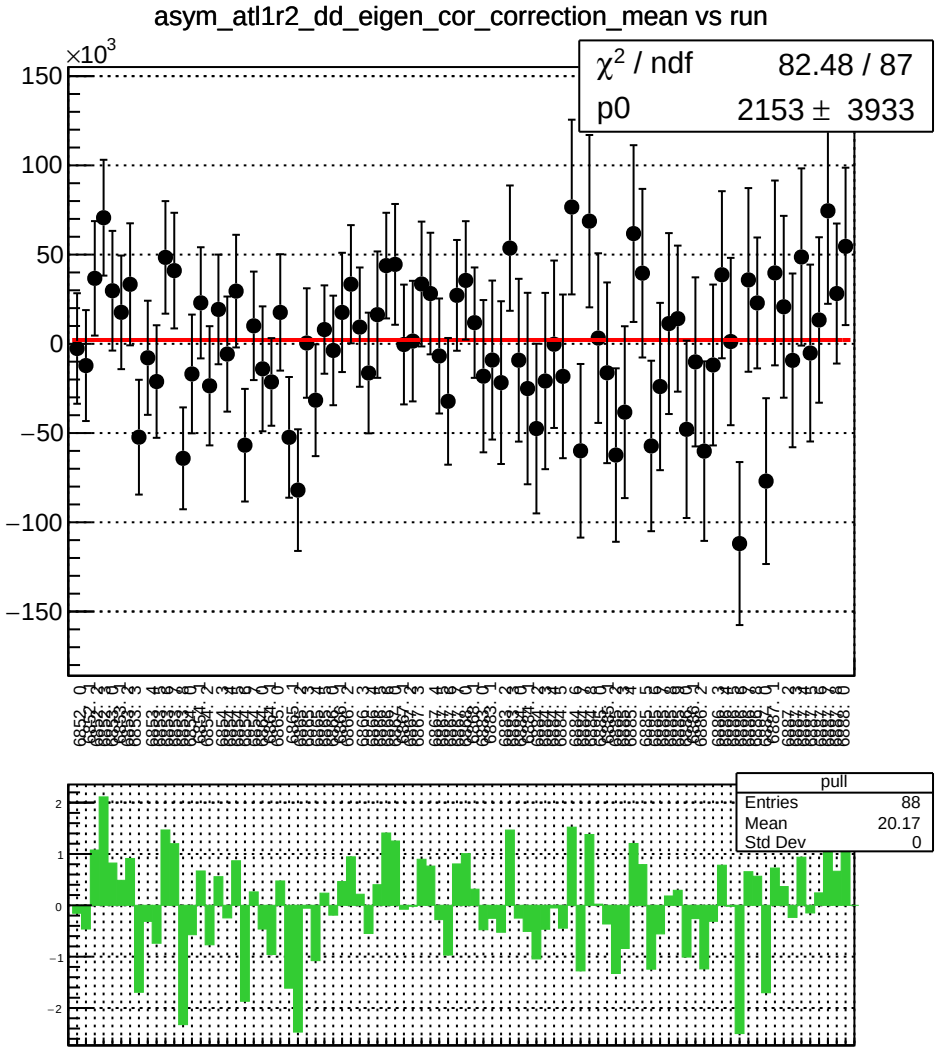

pull1D
Entries 88
Mean −0.01026
Std Dev 0.9681
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

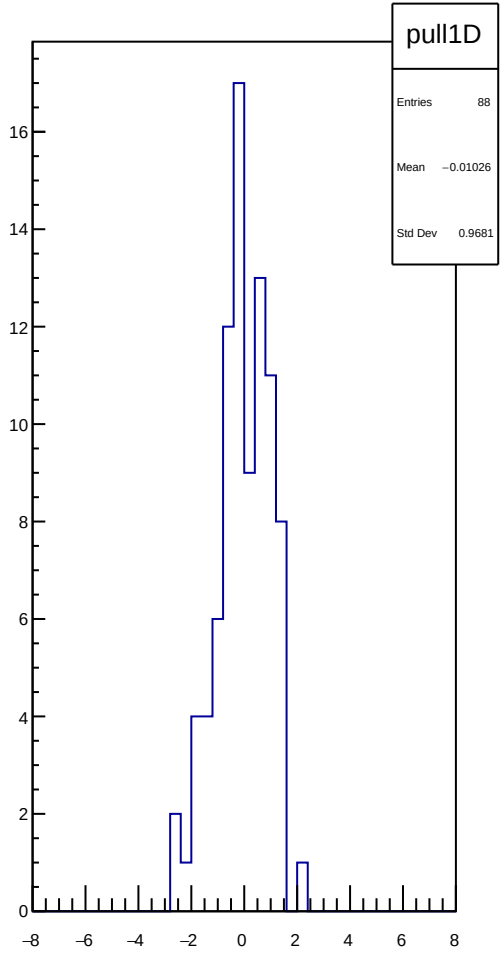

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 5.908e+04 / 87
p0 3552 ± 2.781
5000
4500
4000
3500
3000

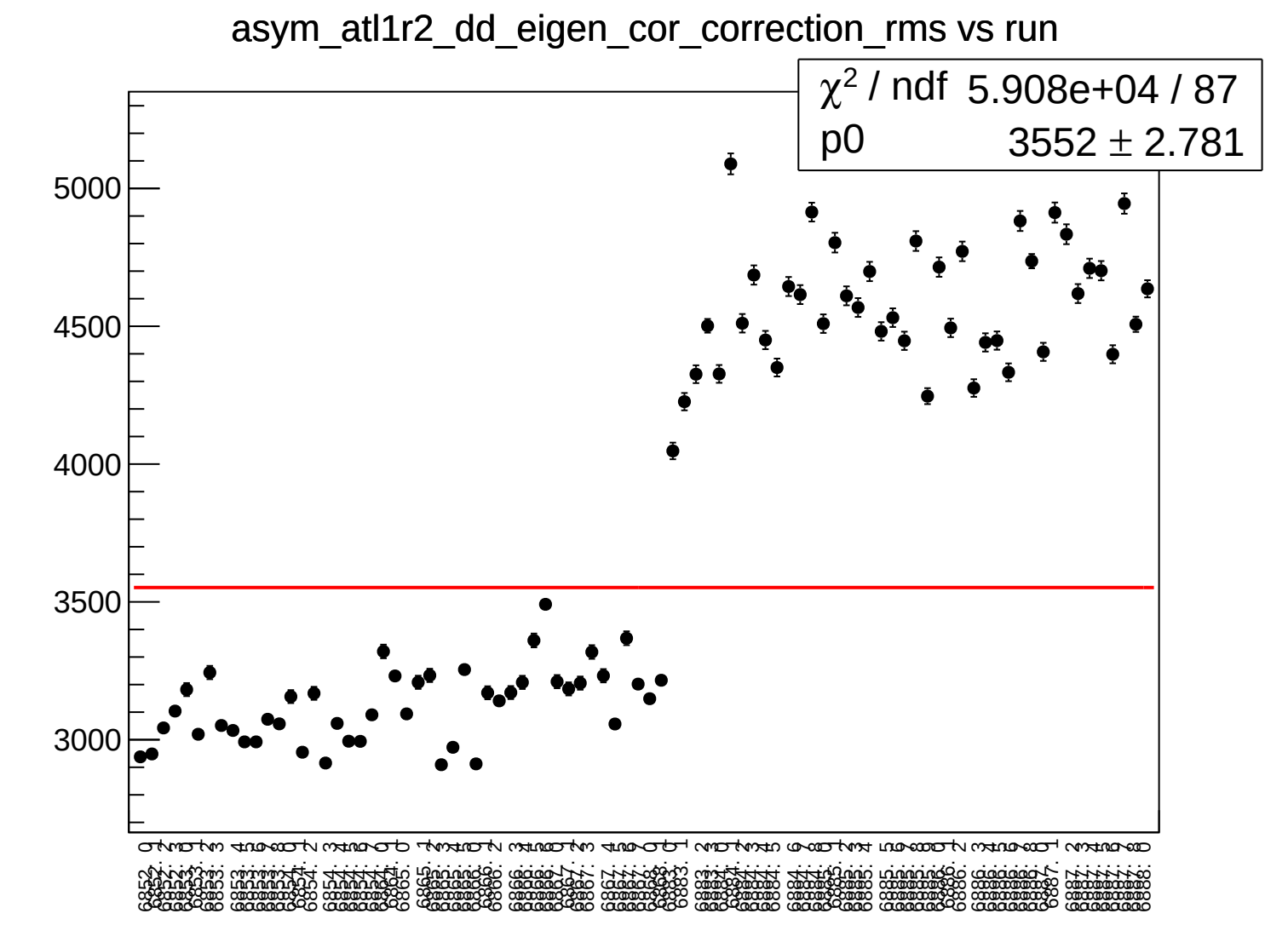

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 103.2 / 87
p0 1520 ± 1836
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 99.26
Std Dev 0
2
1
0
−1
−2

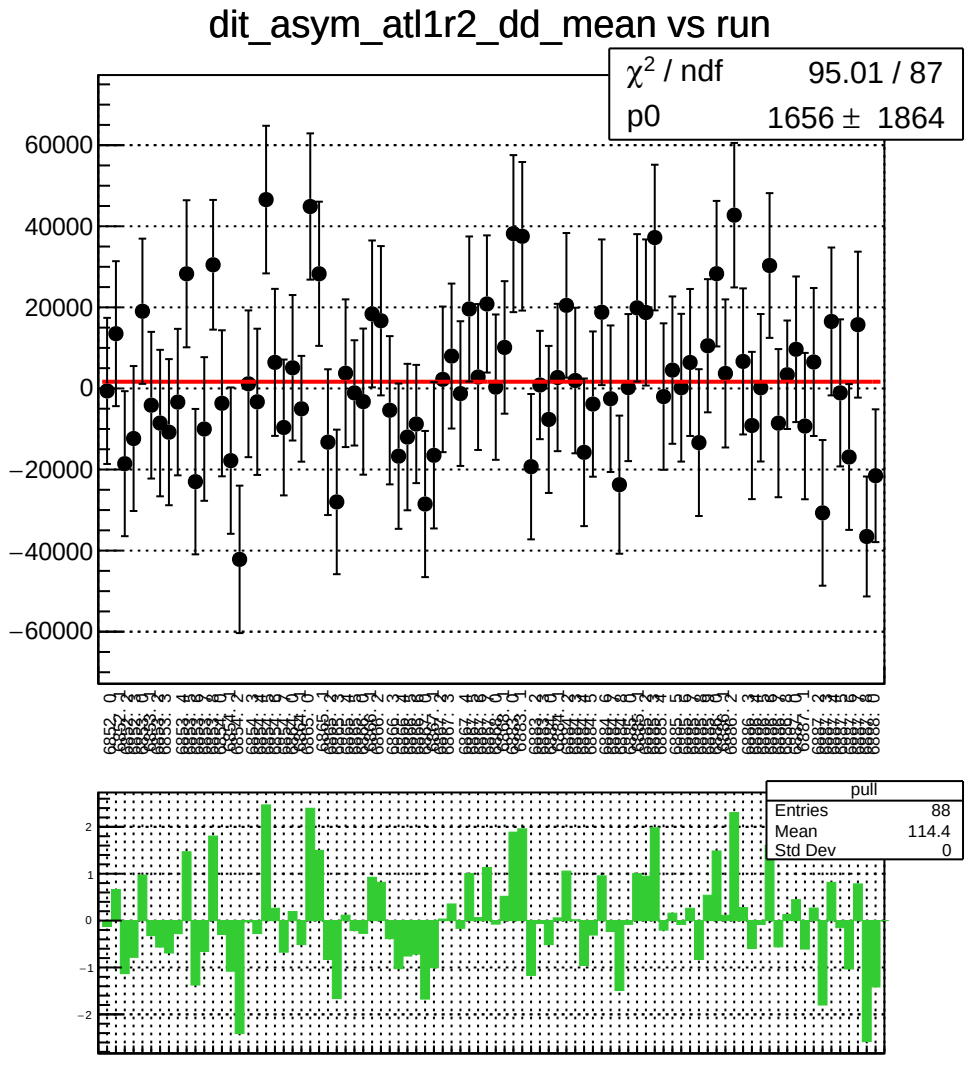

pull1D
Entries 88
Mean 0.01303
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

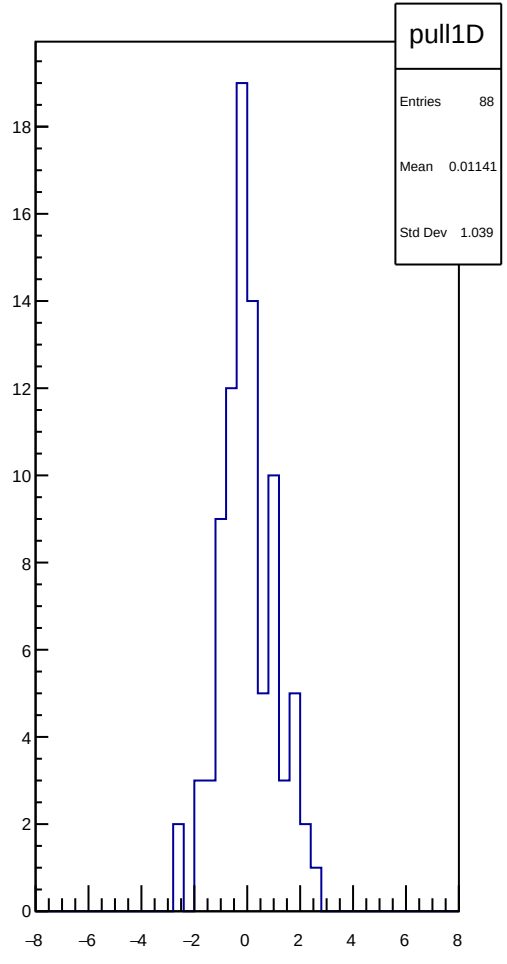

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 163.2 / 87
p0 1688 ± 1.298
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

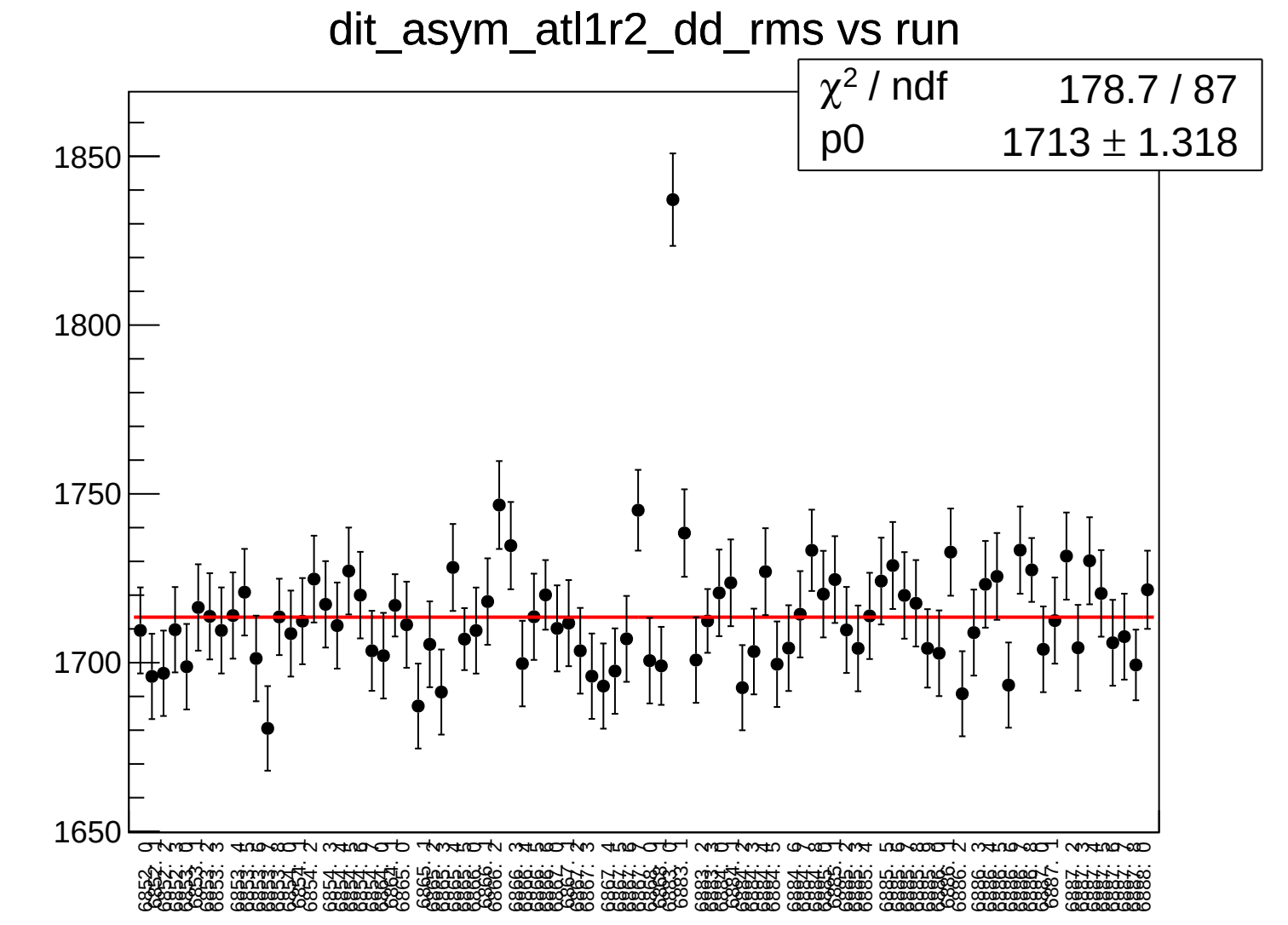

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.48 / 87
p0 2153 ± 3933
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 20.17
Std Dev 0
2
1
0
−1
−2

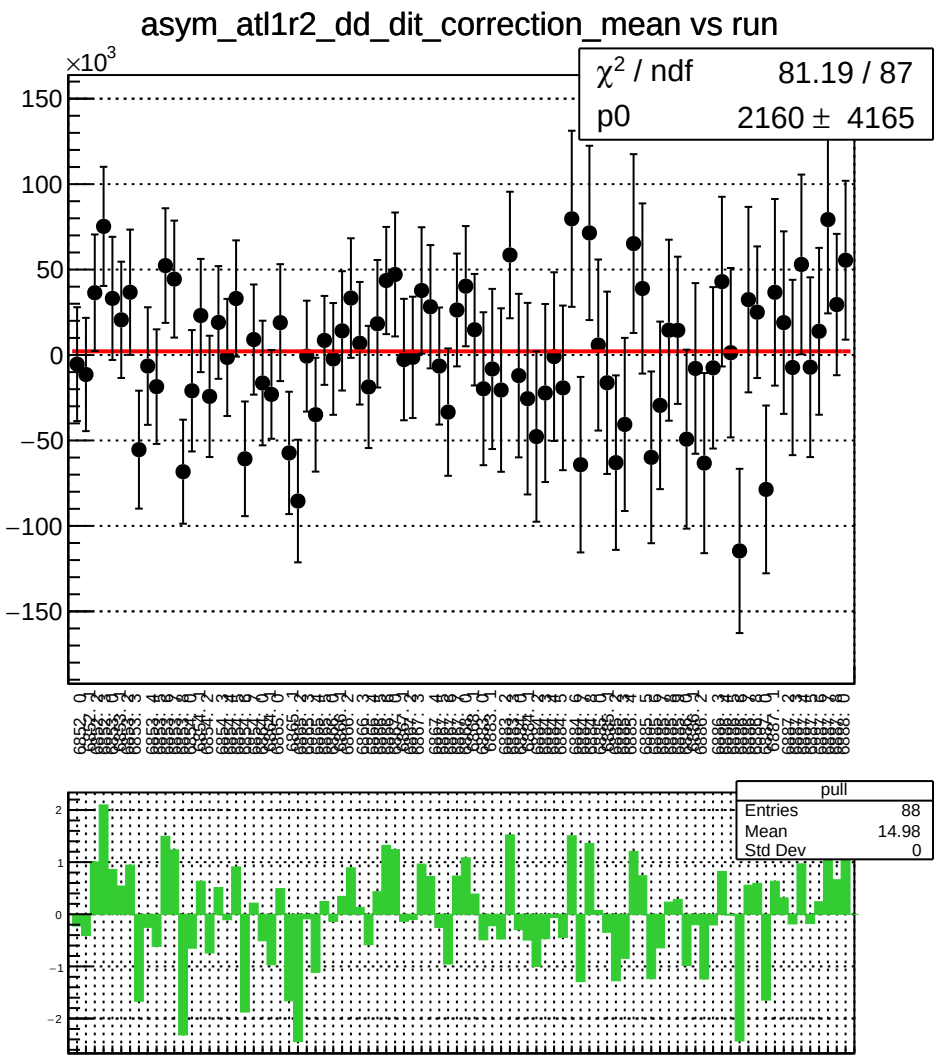

pull1D
Entries 88
Mean −0.01026
Std Dev 0.9681
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

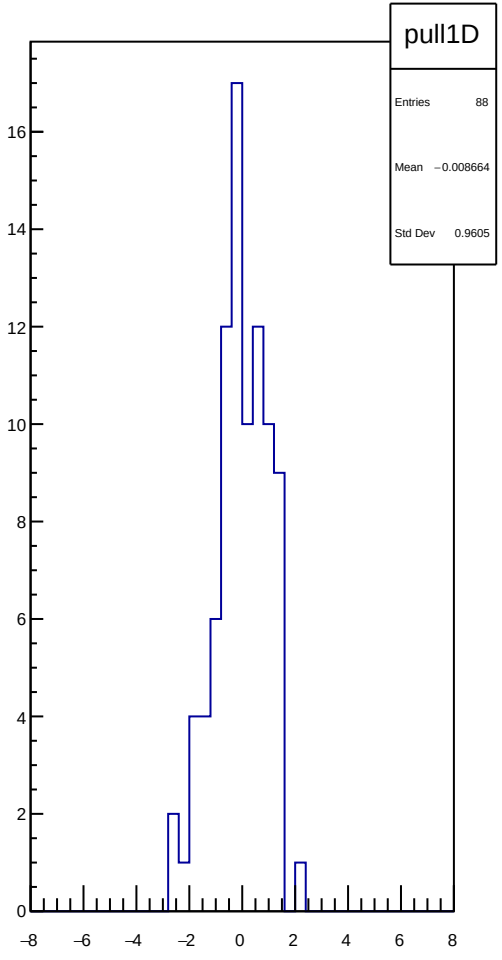

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.908e+04 / 87
p0 3552 ± 2.781
5000
4500
4000
3500
3000

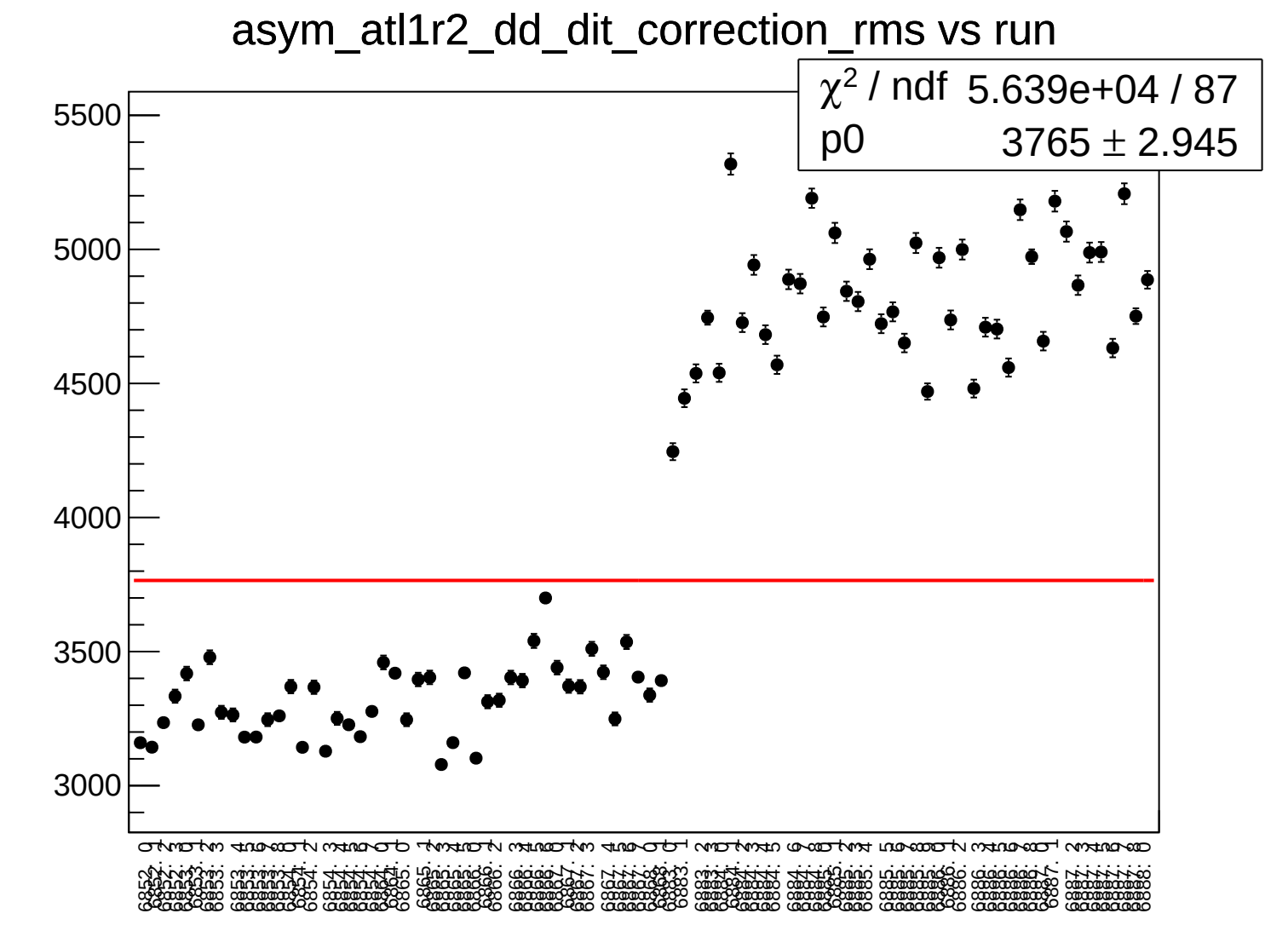

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 95.01 / 87
p0 1656 ± 1864
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 114.4
Std Dev 0
2
1
0
−1
−2

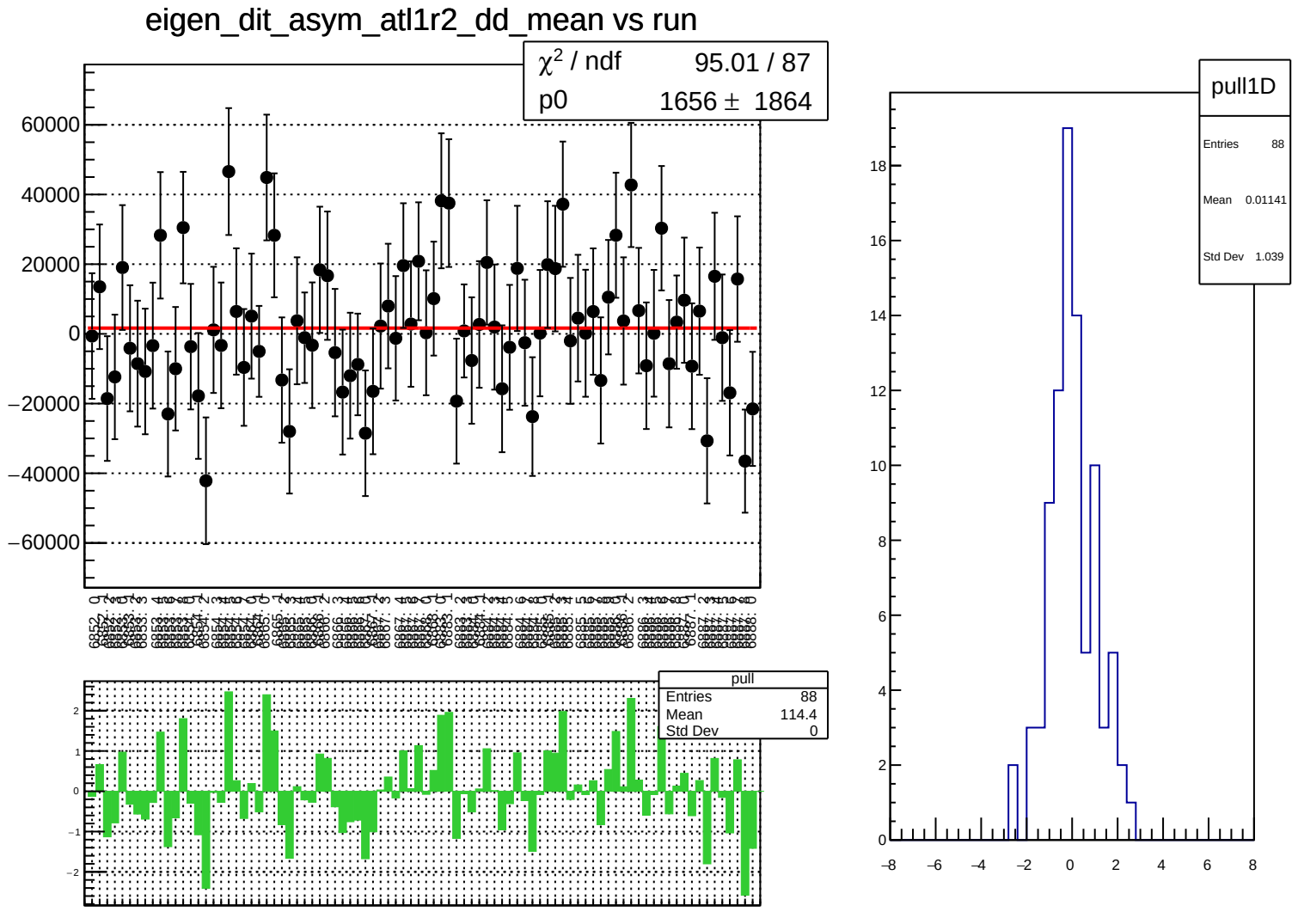

pull1D
Entries 88
Mean 0.01141
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

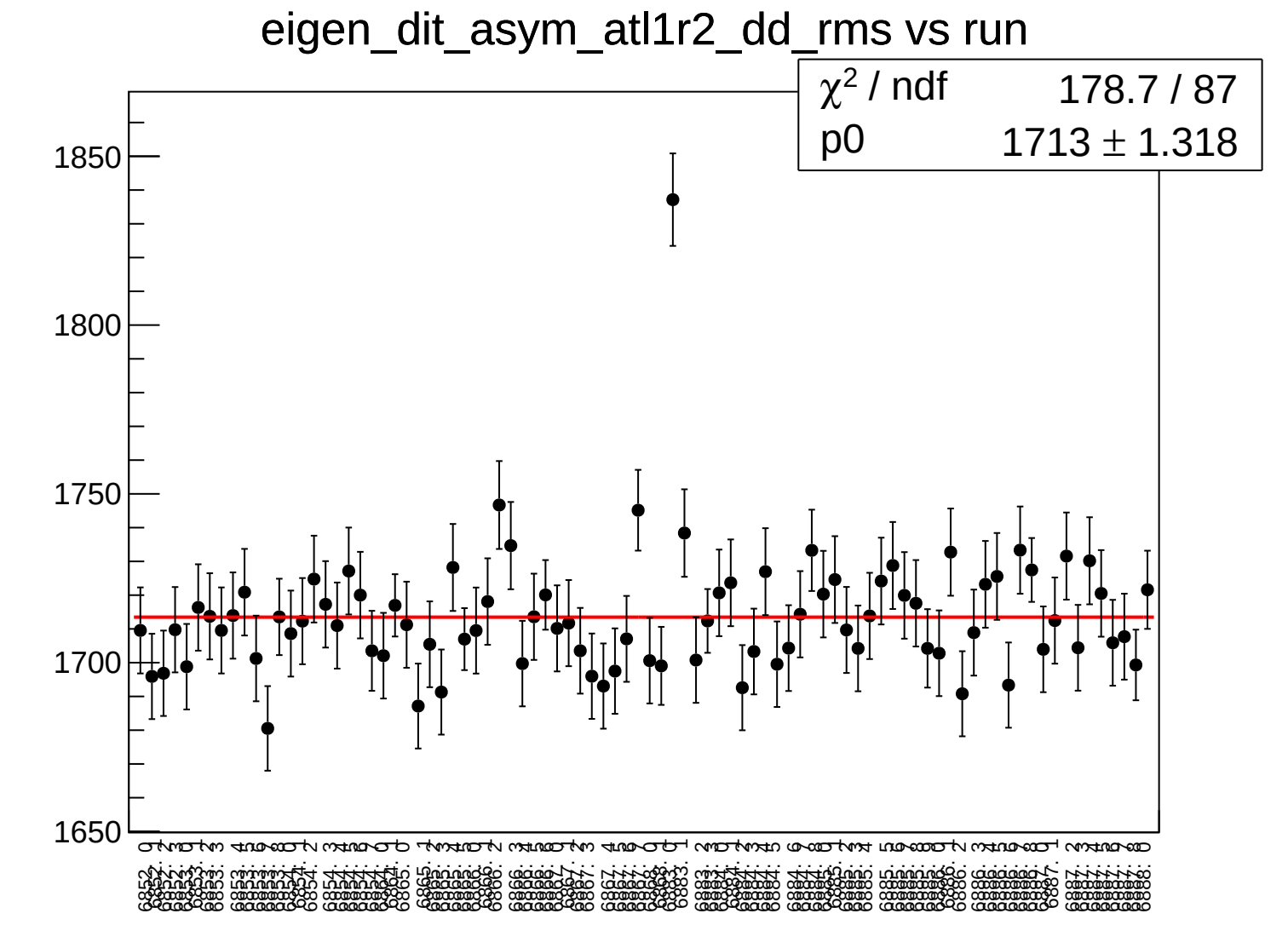

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 178.7 / 87
p0 1713 ± 1.318
1850
1800
1750
1700
1650

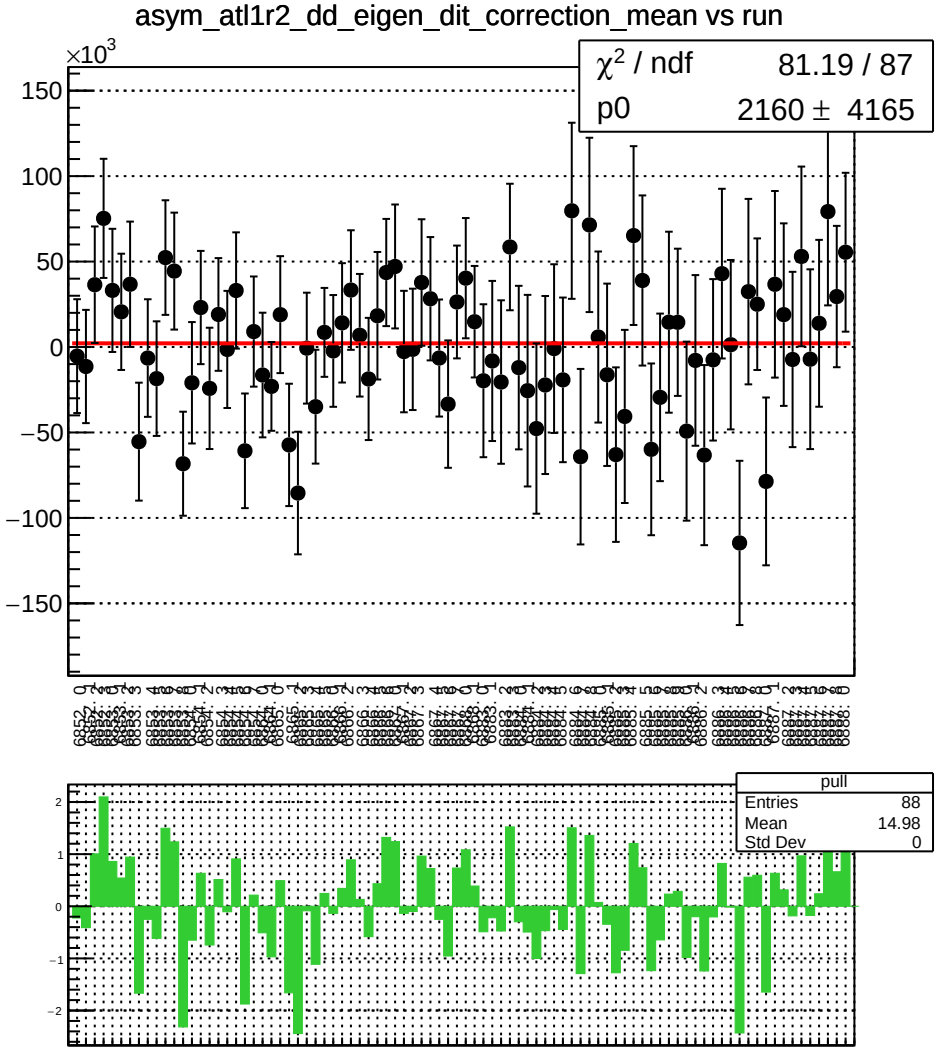

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 81.19 / 87
p0 2160 ± 4165
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 14.98
Std Dev 0
2
1
0
−1
−2

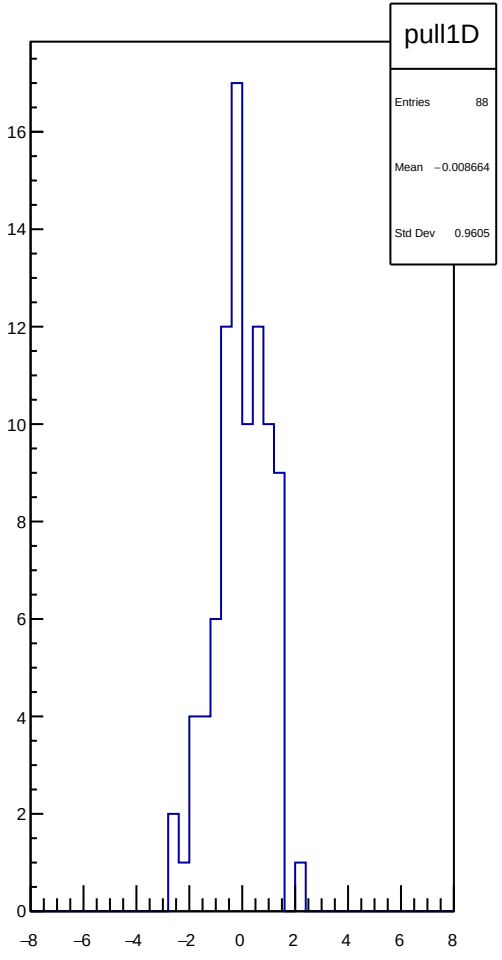

pull1D
Entries 88
Mean −0.008664
Std Dev 0.9605
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

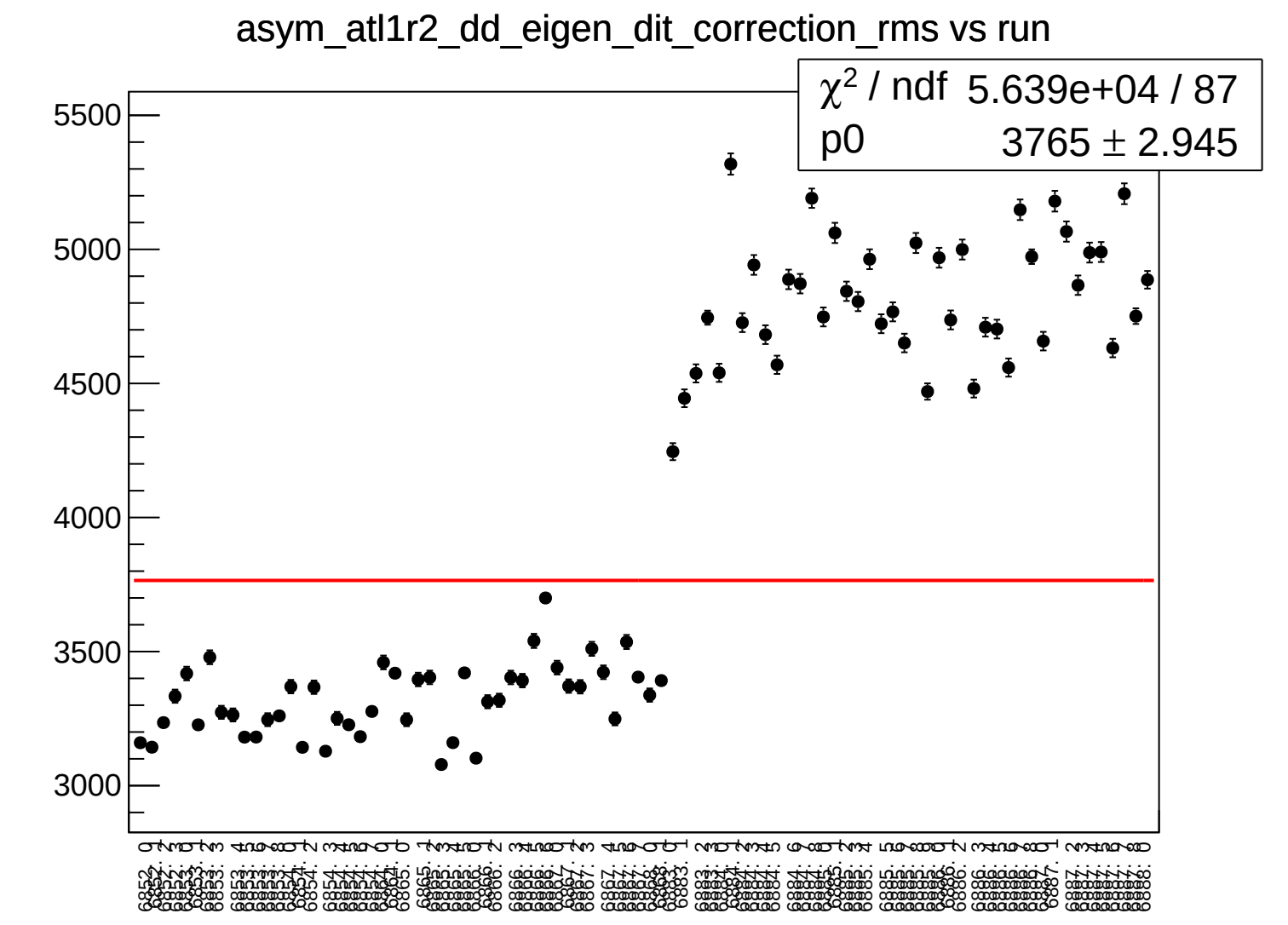

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 5.639e+04 / 87
p0 3765 ± 2.945
5500
5000
4500
4000
3500
3000

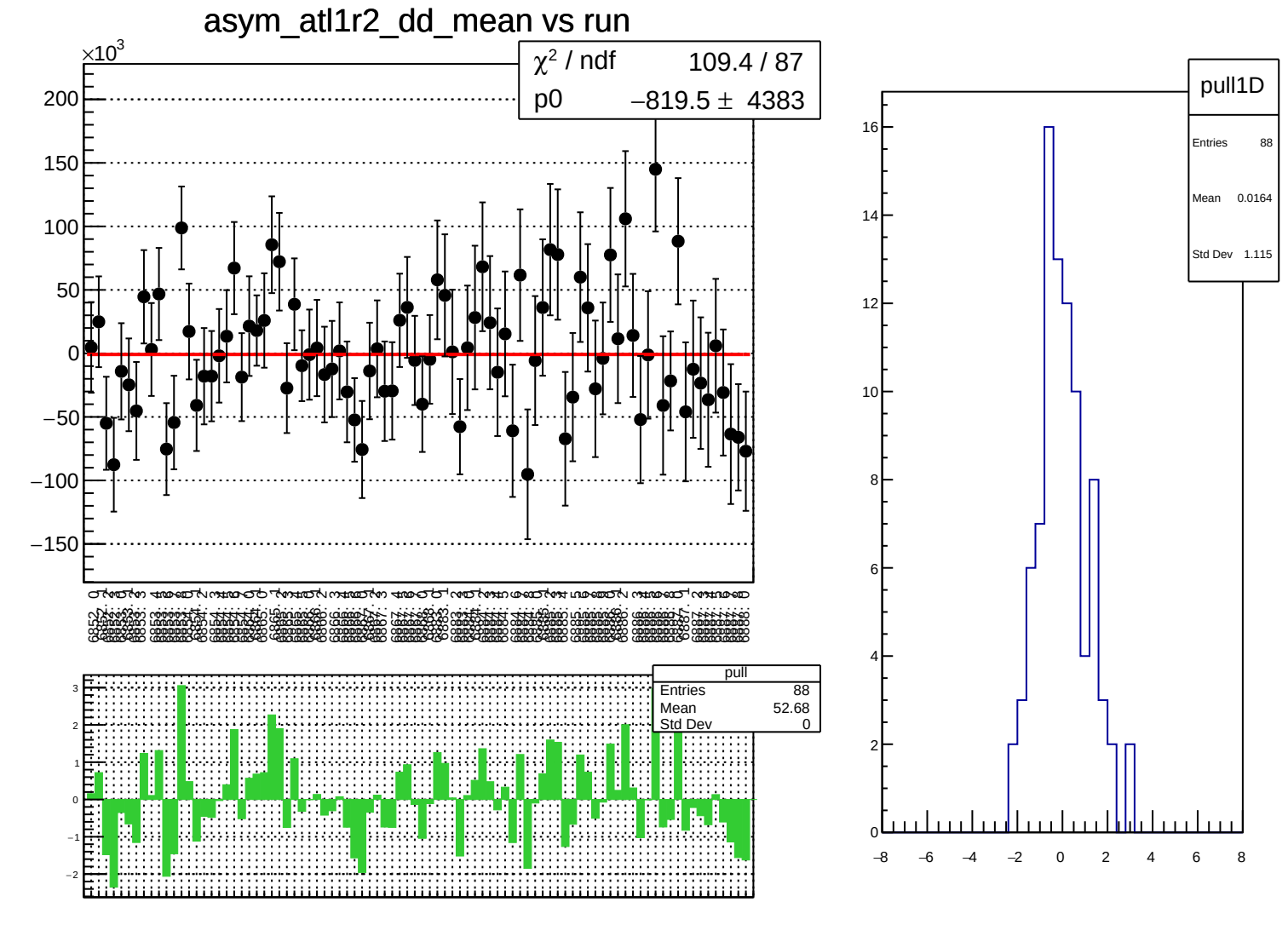

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 95.01 / 87
p0 1656 ± 1864
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 114.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01141
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

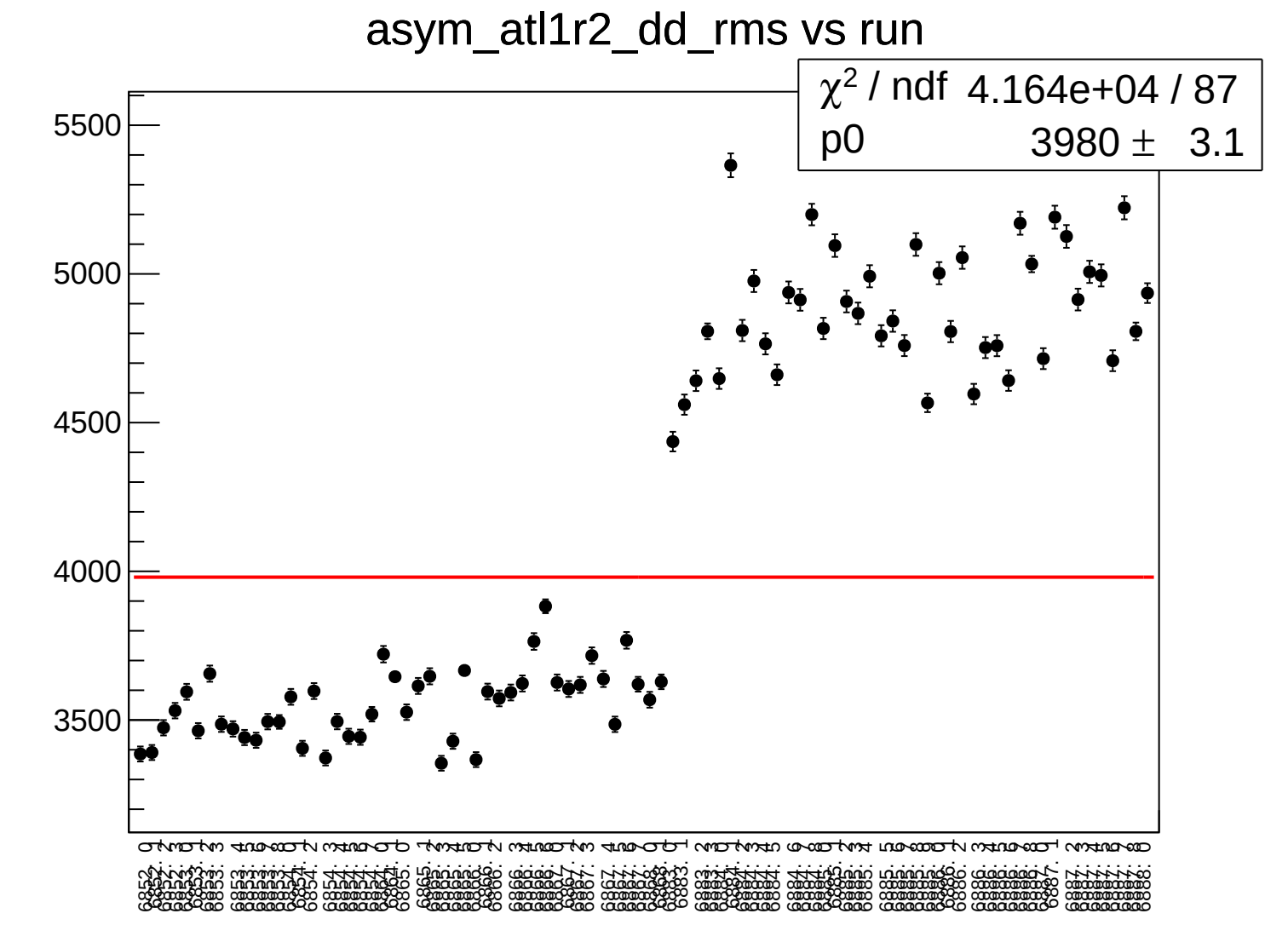

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 178.7 / 87
p0 1713 ± 1.318
1850
1800
1750
1700
1650

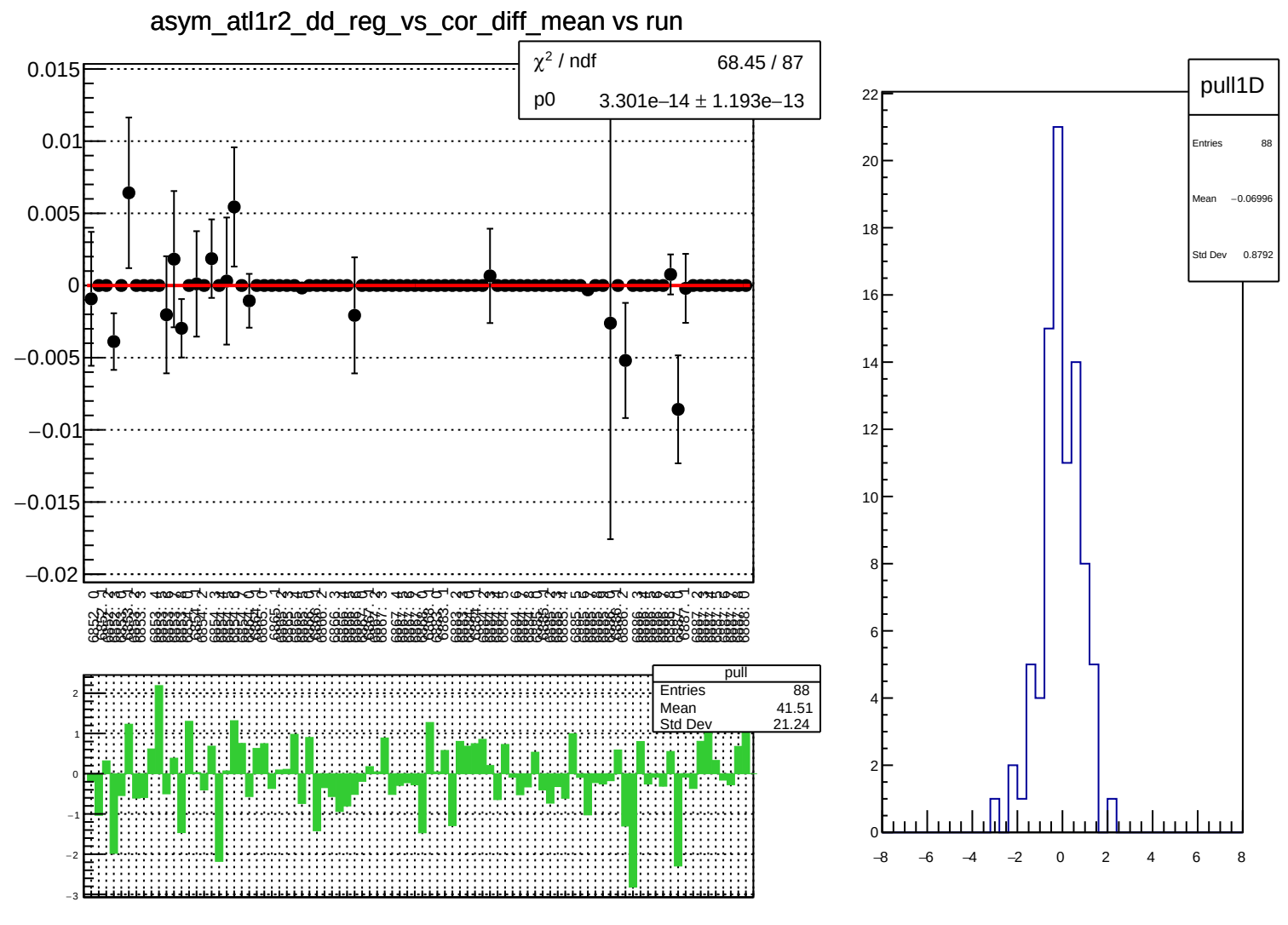

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.19 / 87
p0 2160 ± 4165
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 14.98
Std Dev 0
2
1
0
−1
−2

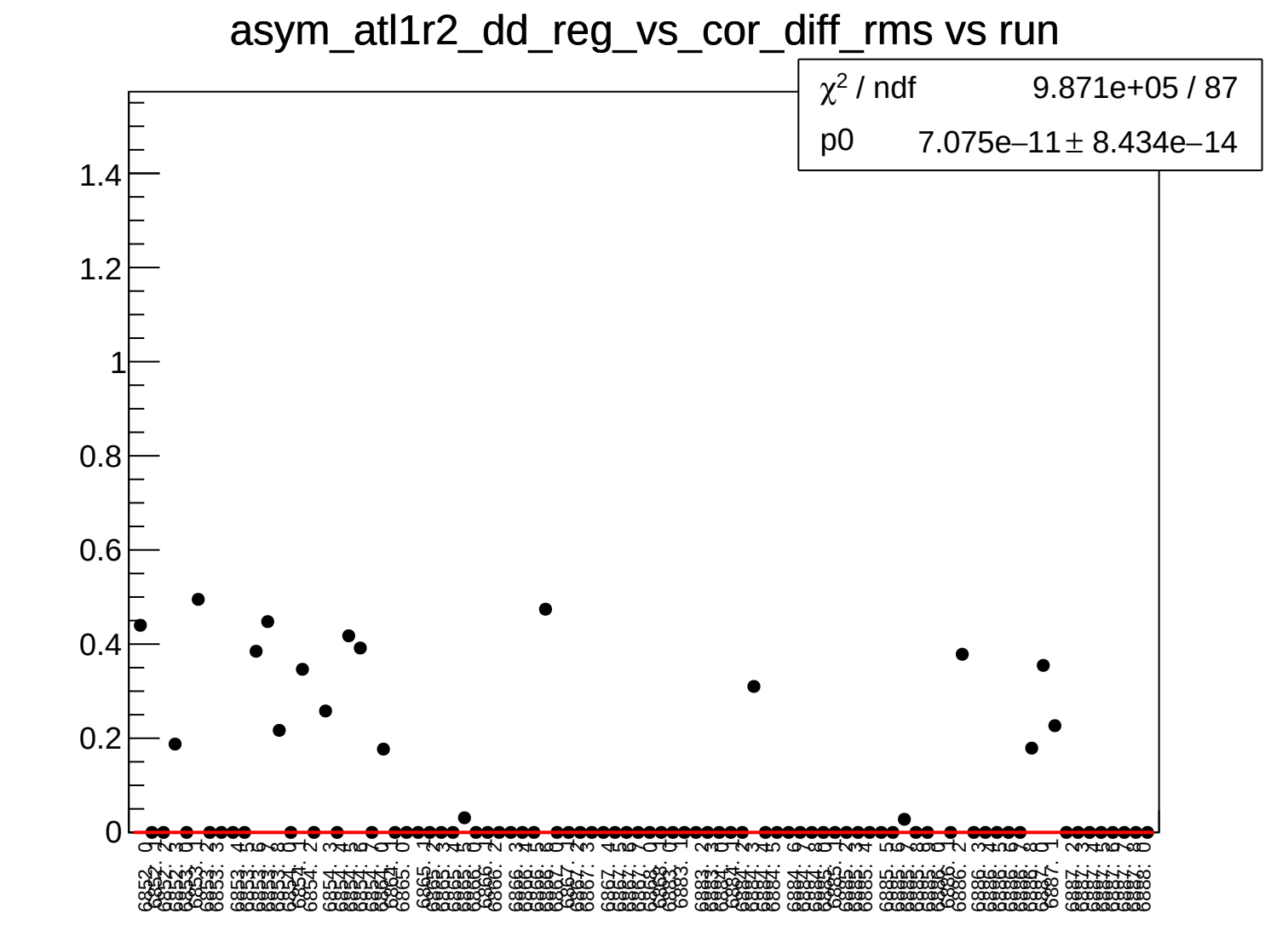

pull1D
Entries 88
Mean −0.008664
Std Dev 0.9605
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

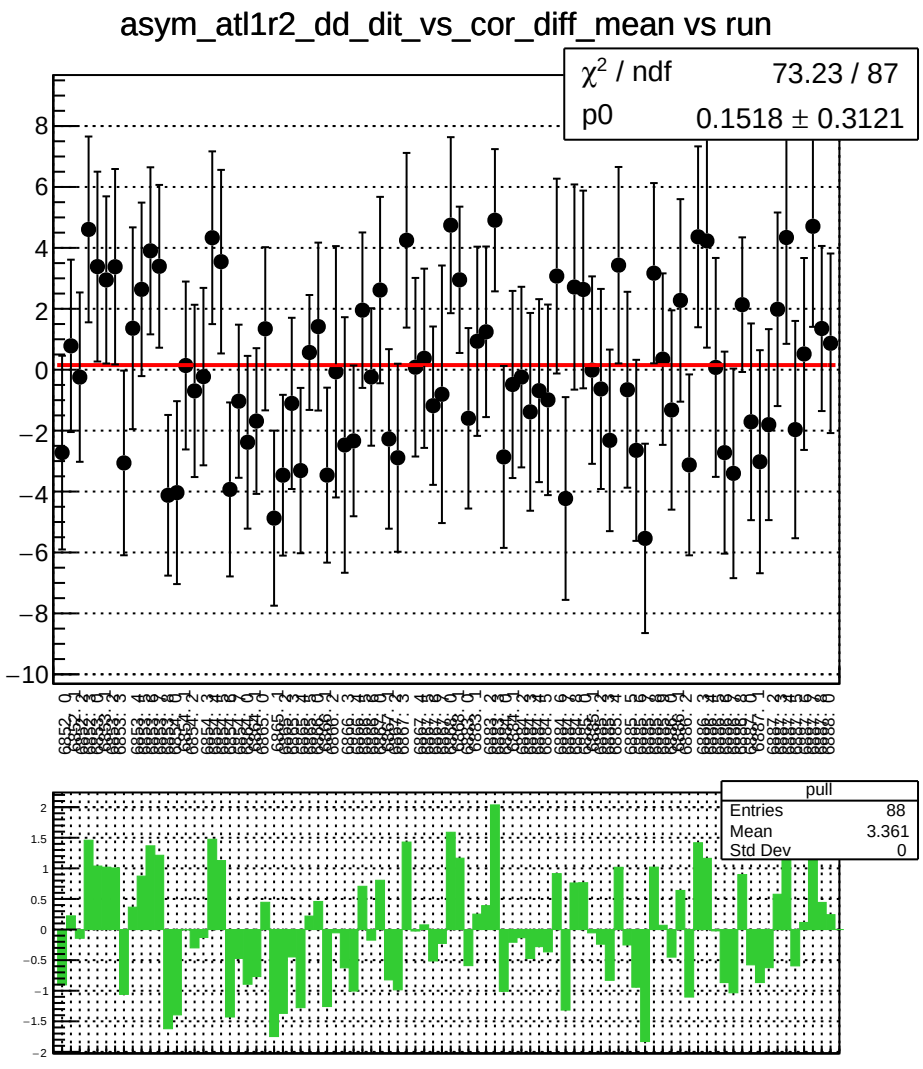

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.639e+04 / 87
p0 3765 ± 2.945
5500
5000
4500
4000
3500
3000

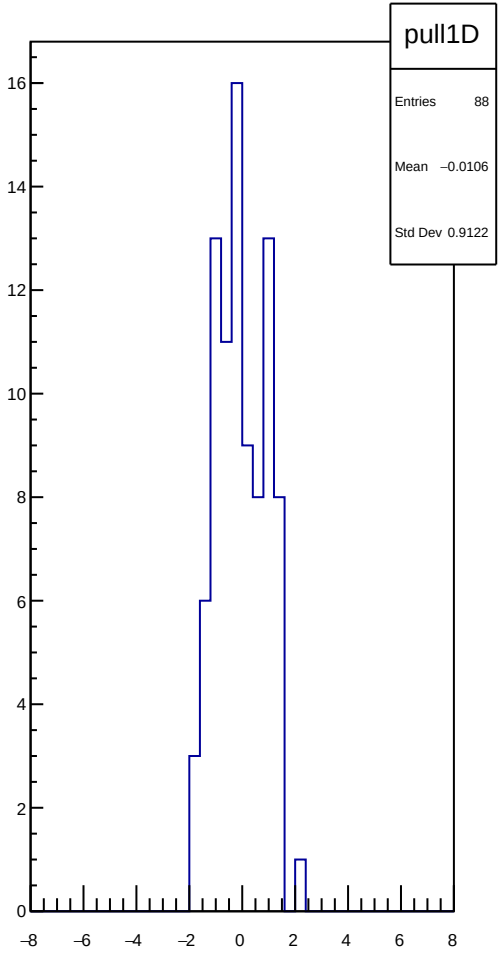

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 109.4 / 87
p0 −819.5 ± 4383
200
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 52.68
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0164
Std Dev 1.115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

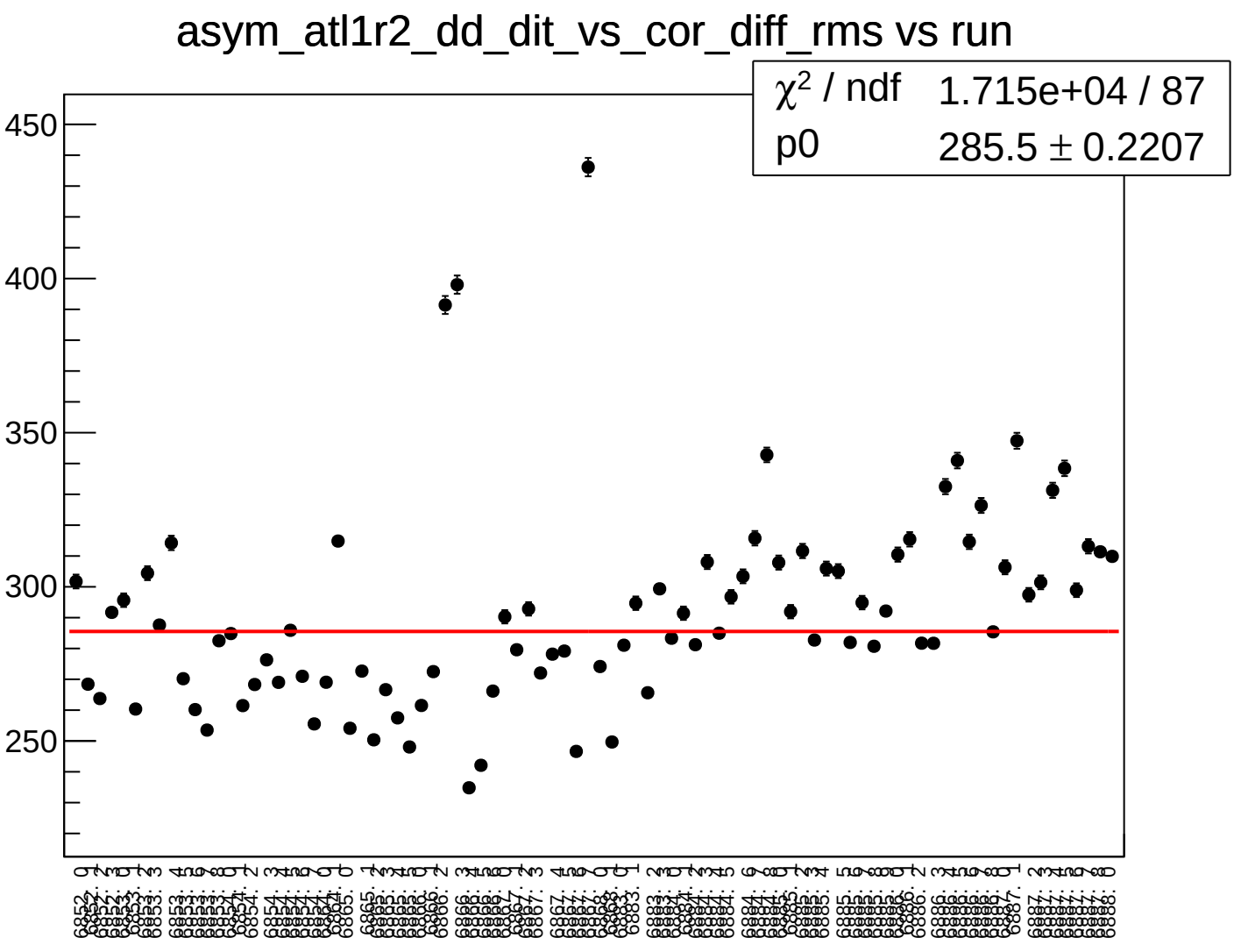

asym_atl1r2_dd_rms vs run
χ² / ndf 4.164e+04 / 87
p0 3980 ± 3.1
5500
5000
4500
4000
3500

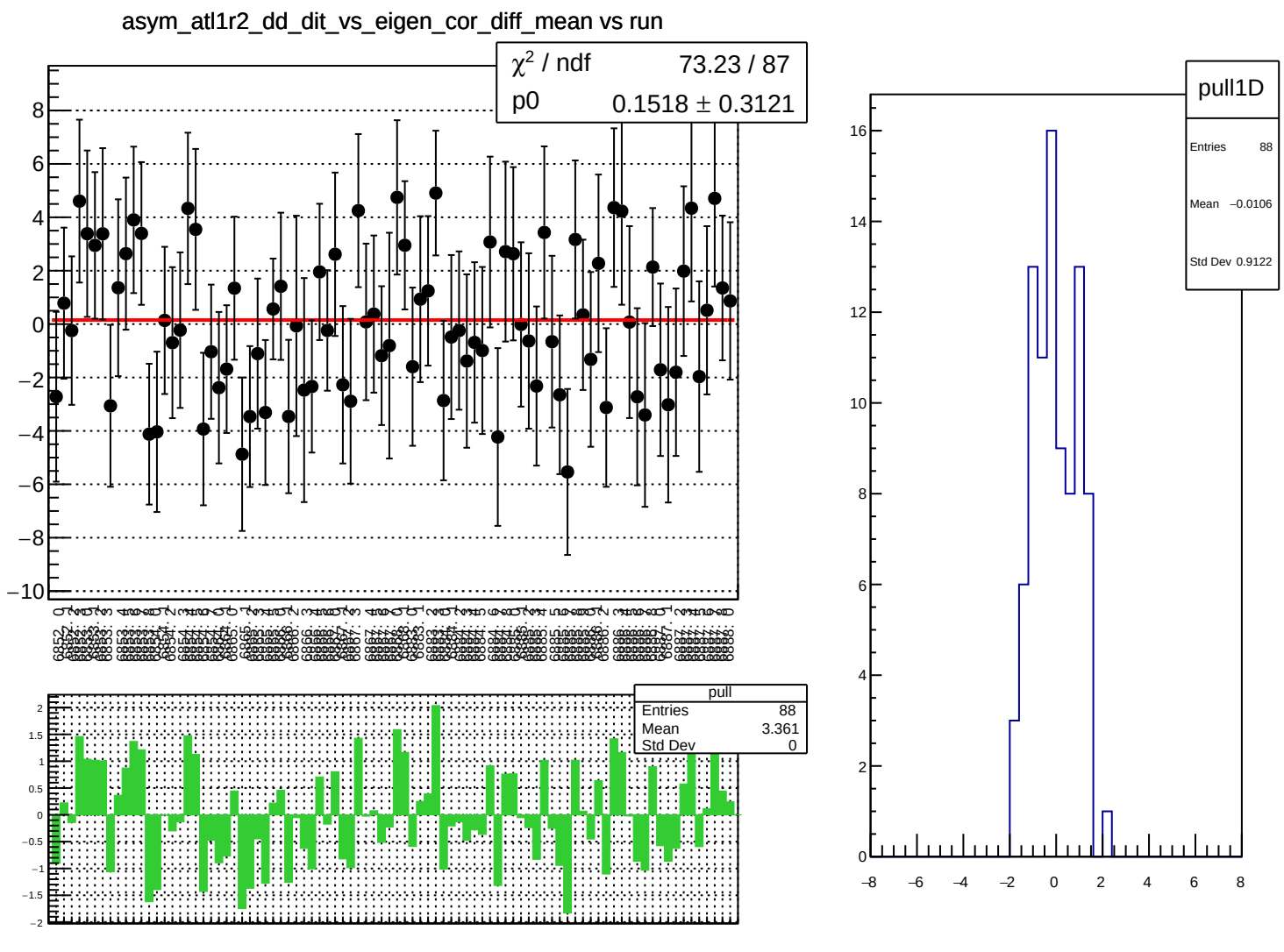

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.45 / 87
p0 3.301e−14 ± 1.193e−13
pull
Entries 88
Mean 41.51
Std Dev 21.24
pull1D
Entries 88
Mean −0.06996
Std Dev 0.8792

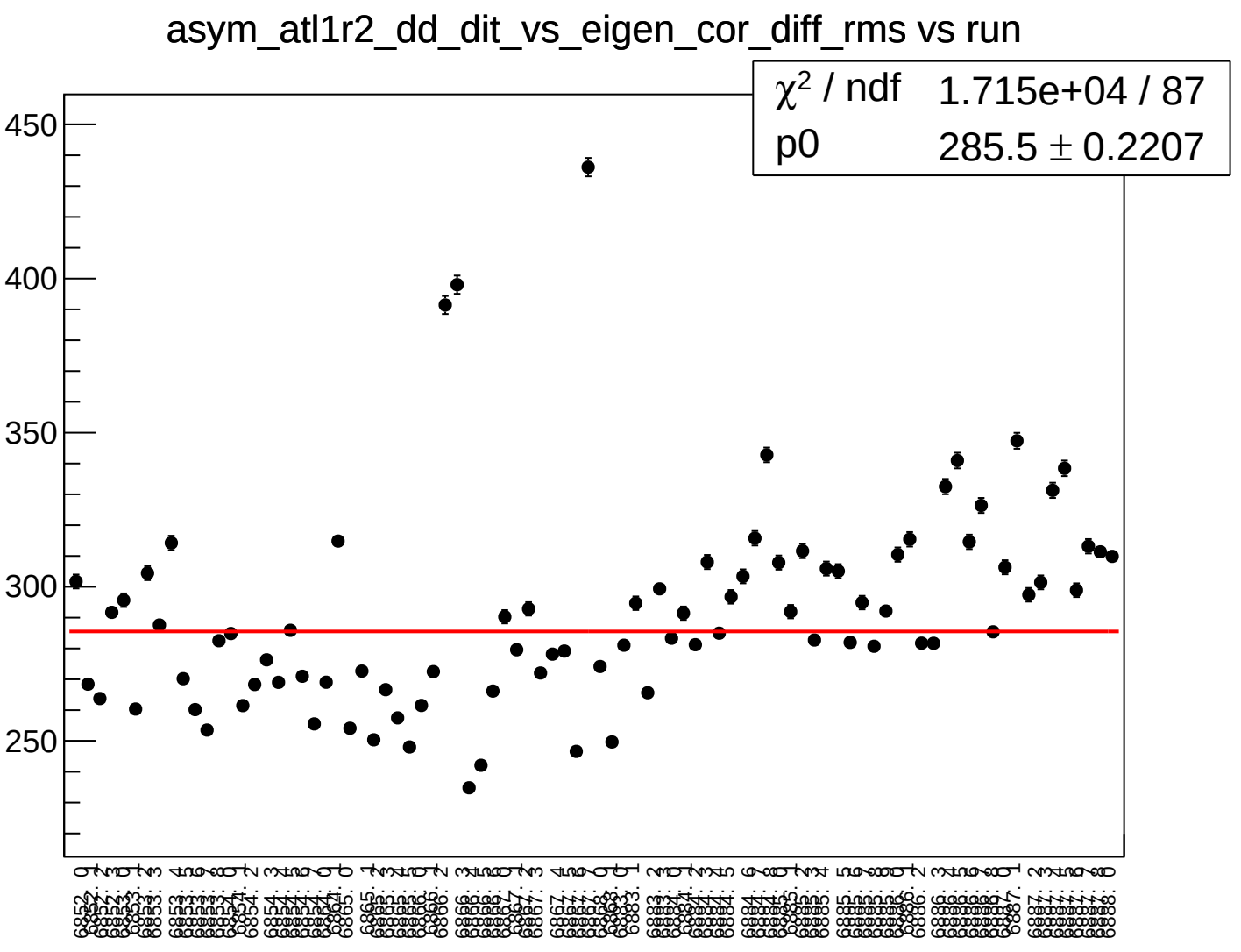

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.871e+05 / 87
p0 7.075e−11 ± 8.434e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

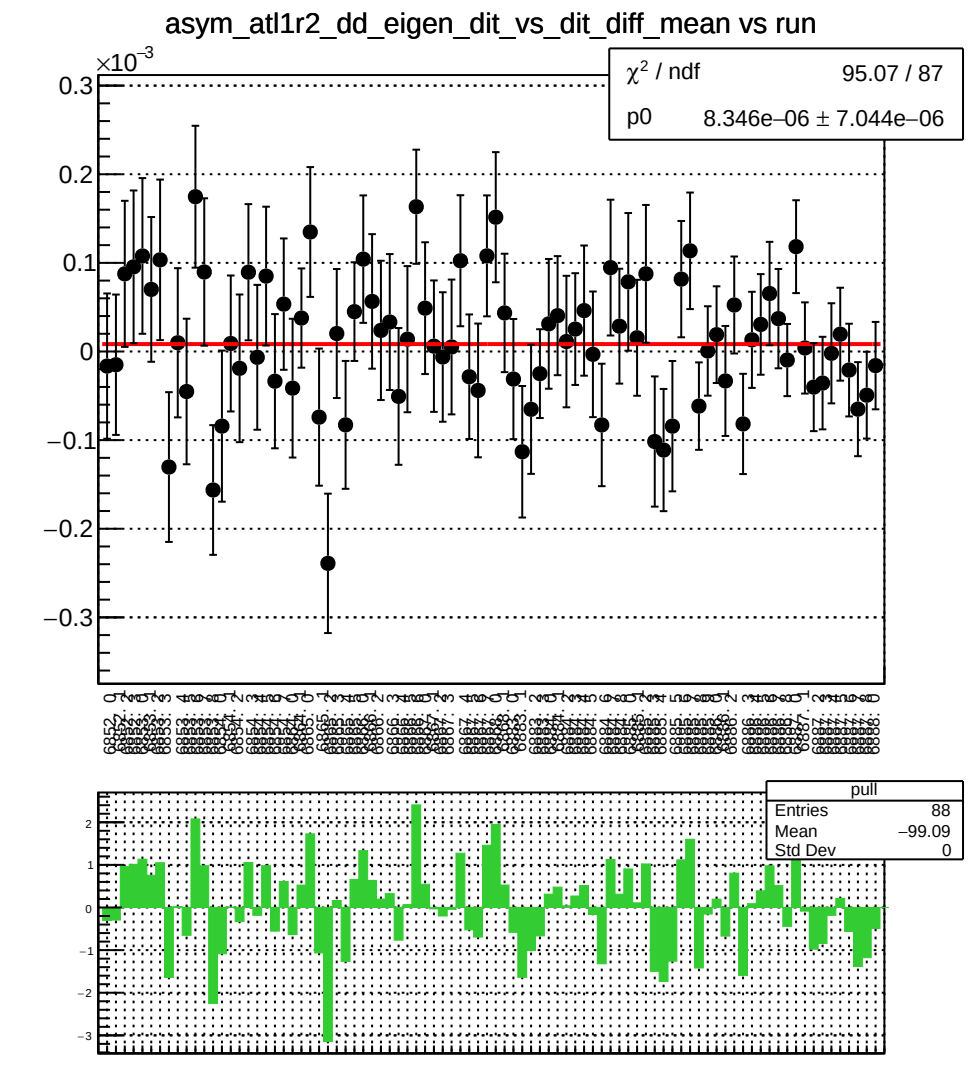

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.23 / 87
p0 0.1518 ± 0.3121
pull
Entries 88
Mean 3.361
Std Dev 0

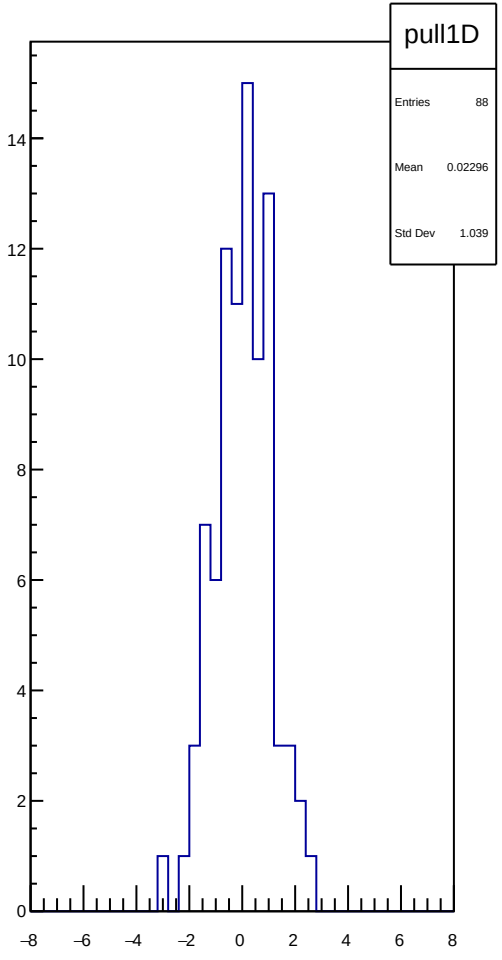

pull1D
Entries 88
Mean −0.0106
Std Dev 0.9122

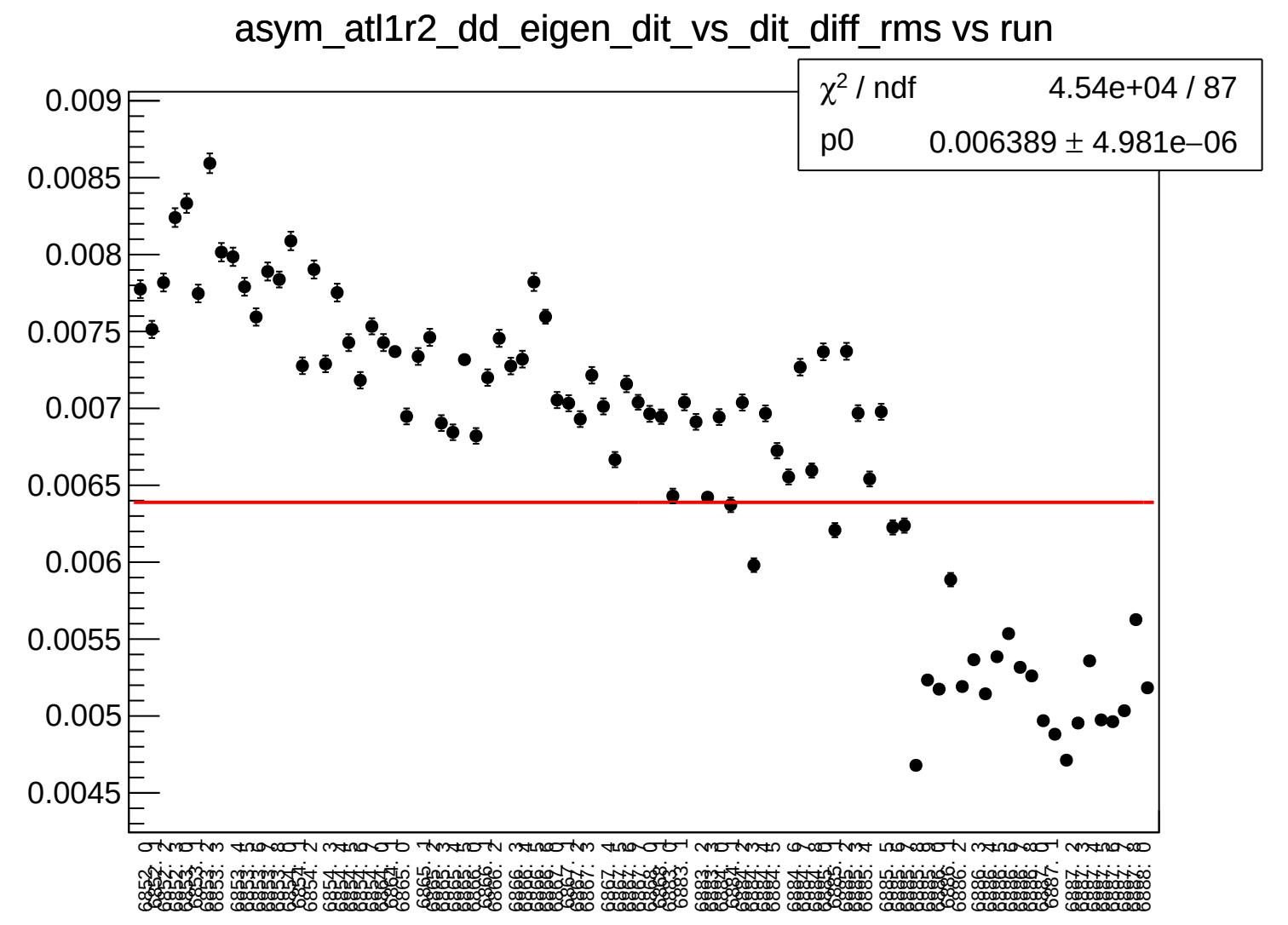

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.715e+04 / 87
p0 285.5 ± 0.2207
450
400
350
300
250

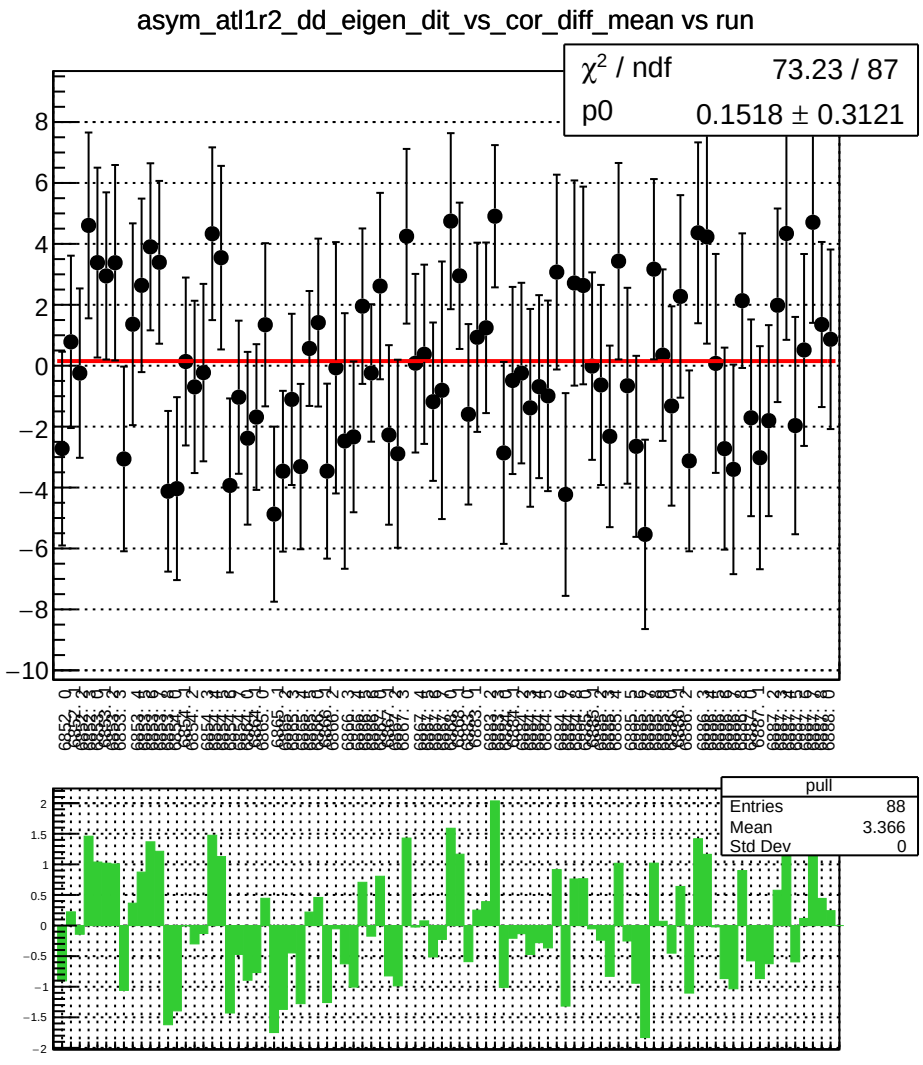

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.23 / 87
p0 0.1518 ± 0.3121
pull
Entries 88
Mean 3.361
Std Dev 0
pull1D
Entries 88
Mean −0.0106
Std Dev 0.9122

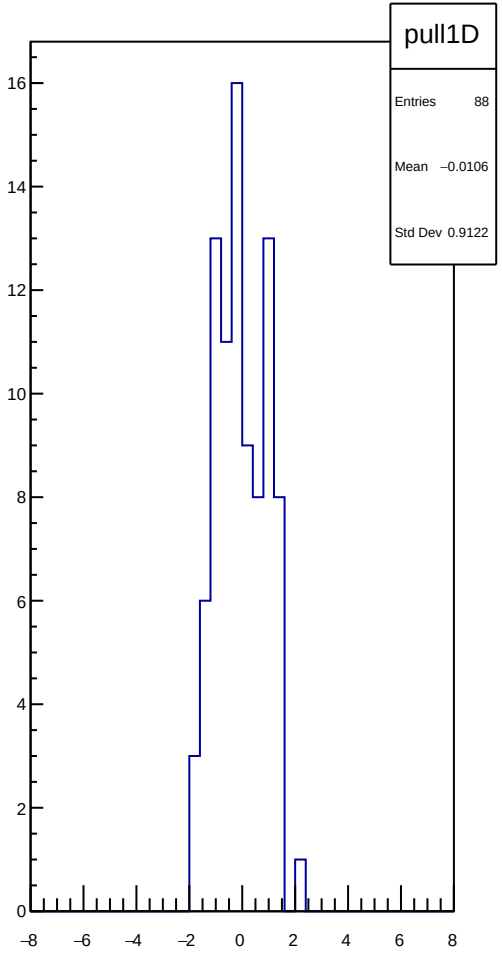

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.715e+04 / 87
p0 285.5 ± 0.2207
450
400
350
300
250

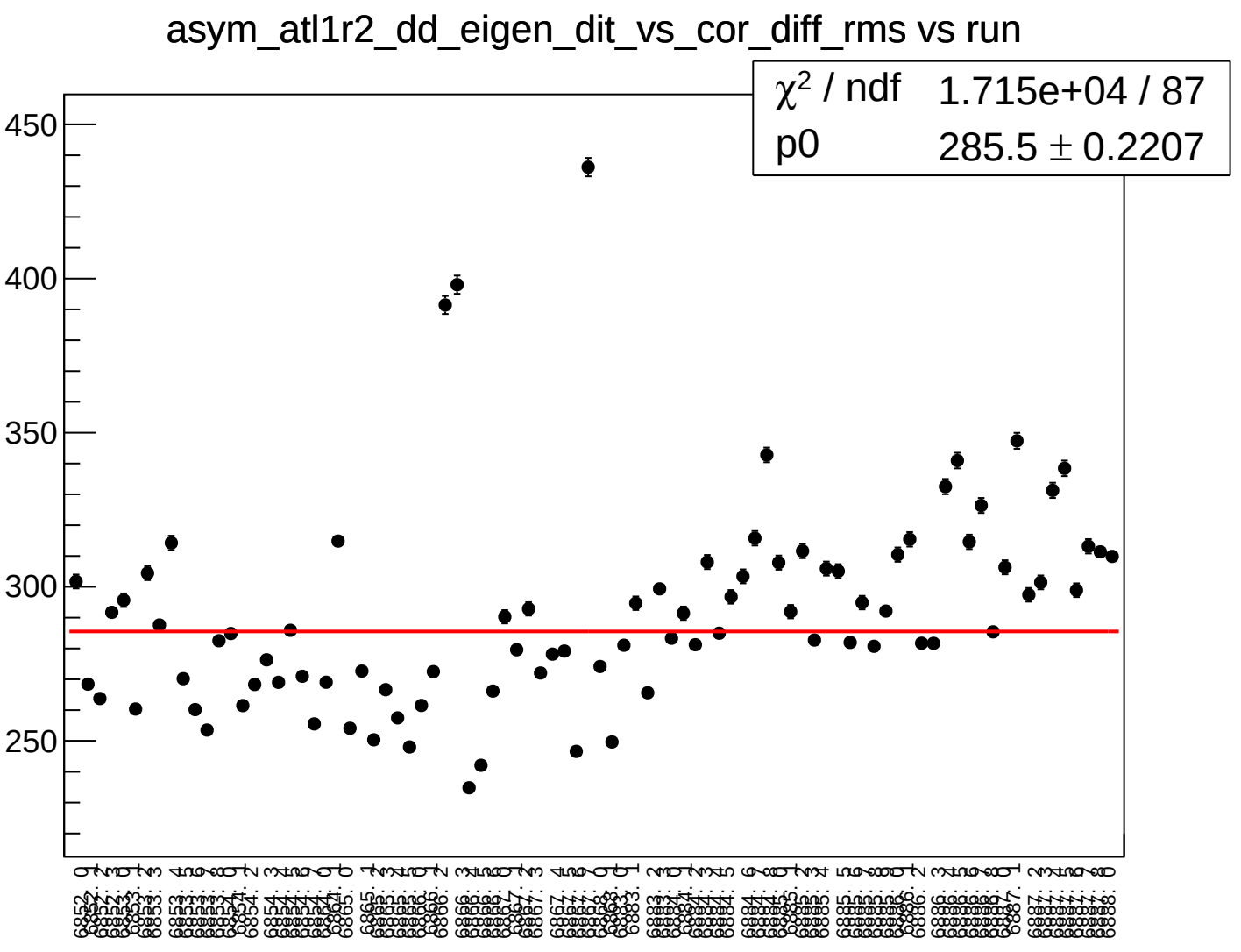

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.07 / 87
p0 8.346e−06 ± 7.044e−06
pull
Entries 88
Mean −99.09
Std Dev 0

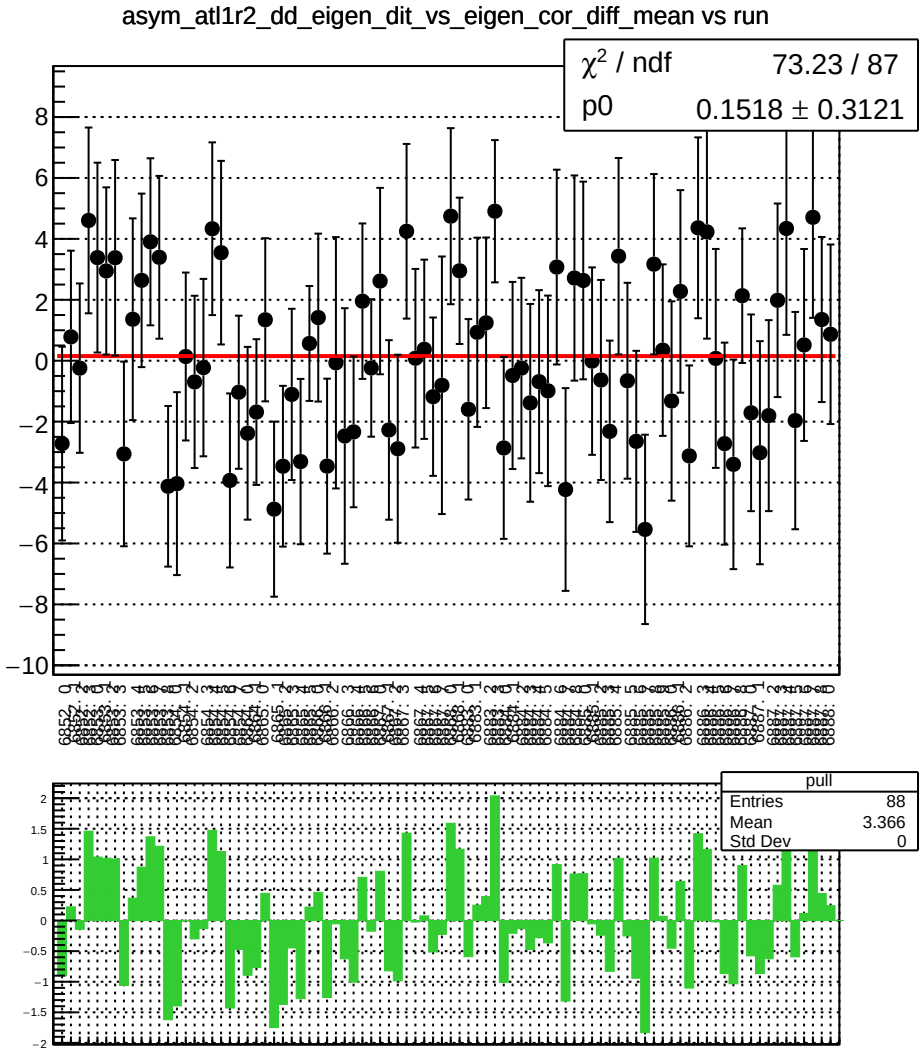

pull1D
Entries 88
Mean 0.02296
Std Dev 1.039

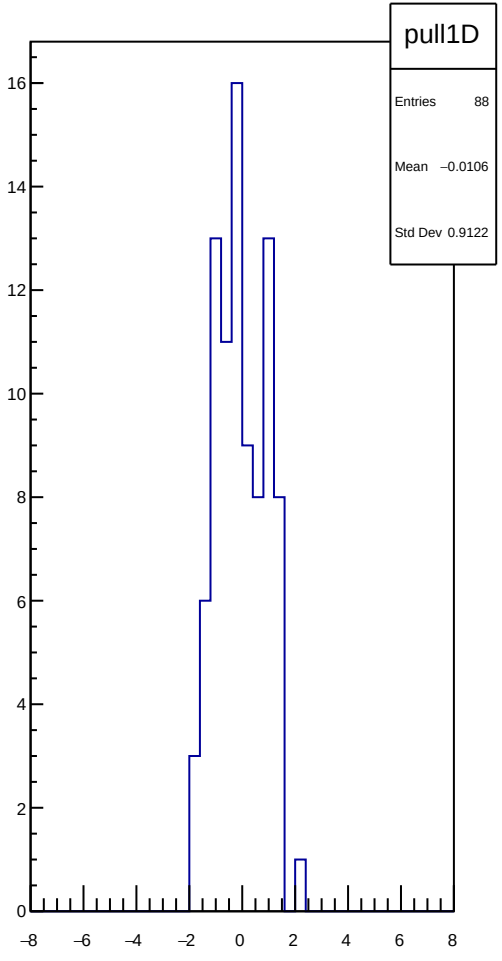

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.54e+04 / 87
p0 0.006389 ± 4.981e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

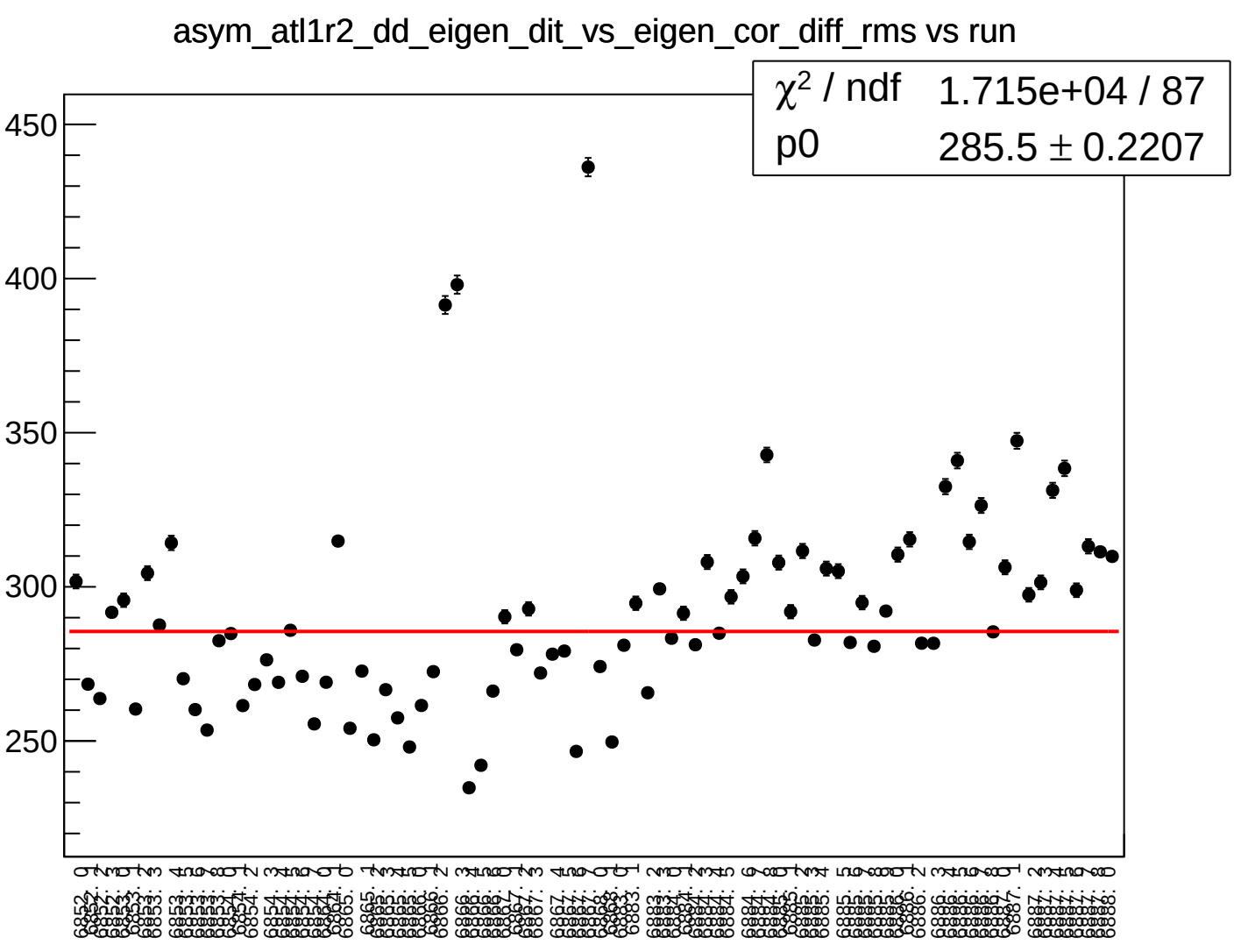

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.23 / 87
p0 0.1518 ± 0.3121
pull
Entries 88
Mean 3.366
Std Dev 0

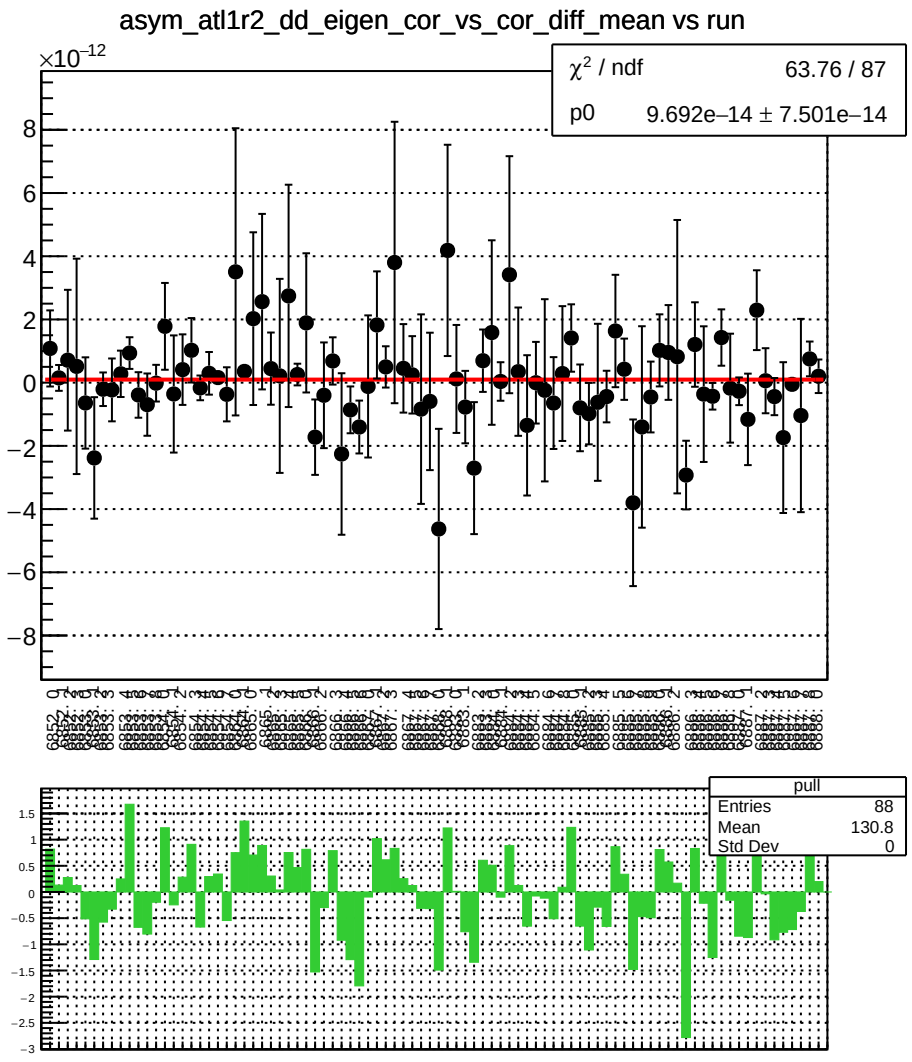

pull1D
Entries 88
Mean −0.0106
Std Dev 0.9122

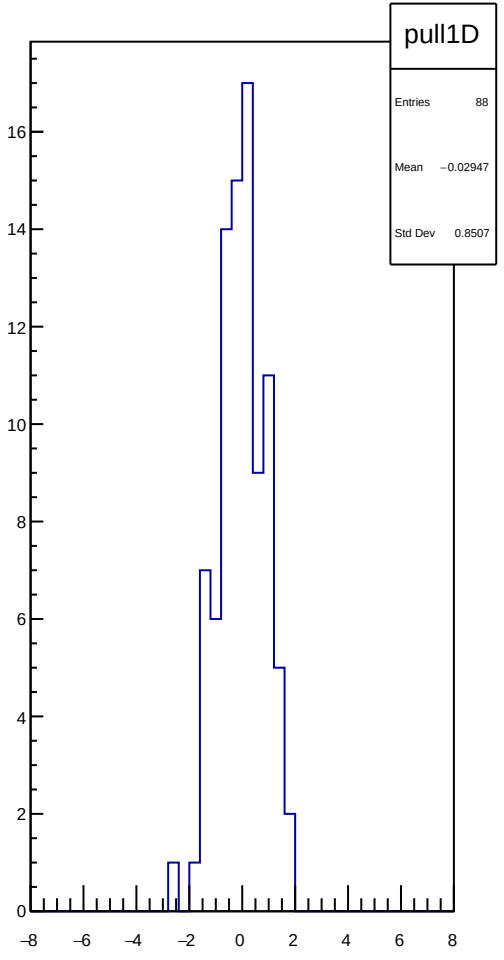

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.715e+04 / 87
p0 285.5 ± 0.2207
450
400
350
300
250

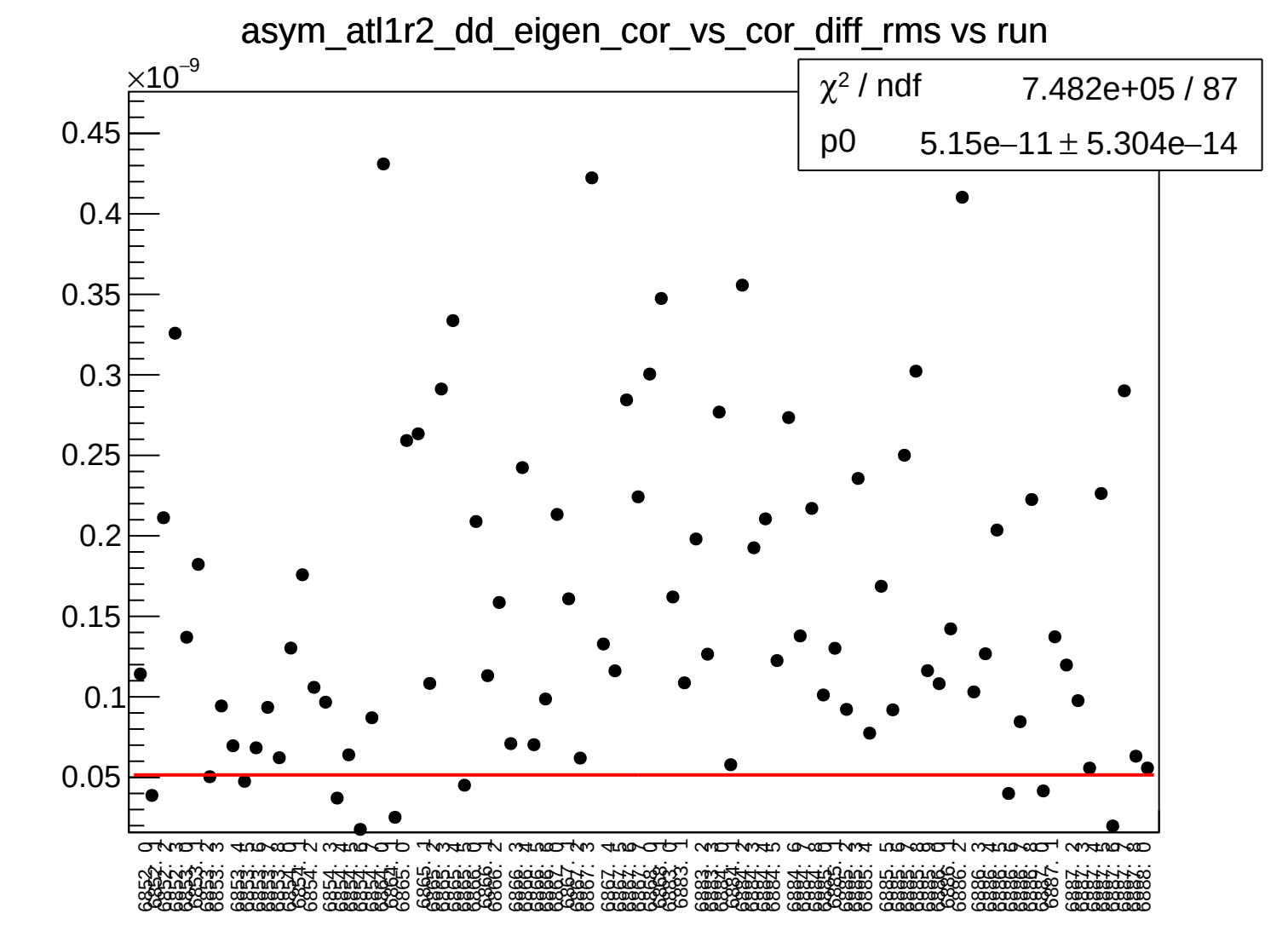

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.23 / 87
p0 0.1518 ± 0.3121
pull
Entries 88
Mean 3.366
Std Dev 0

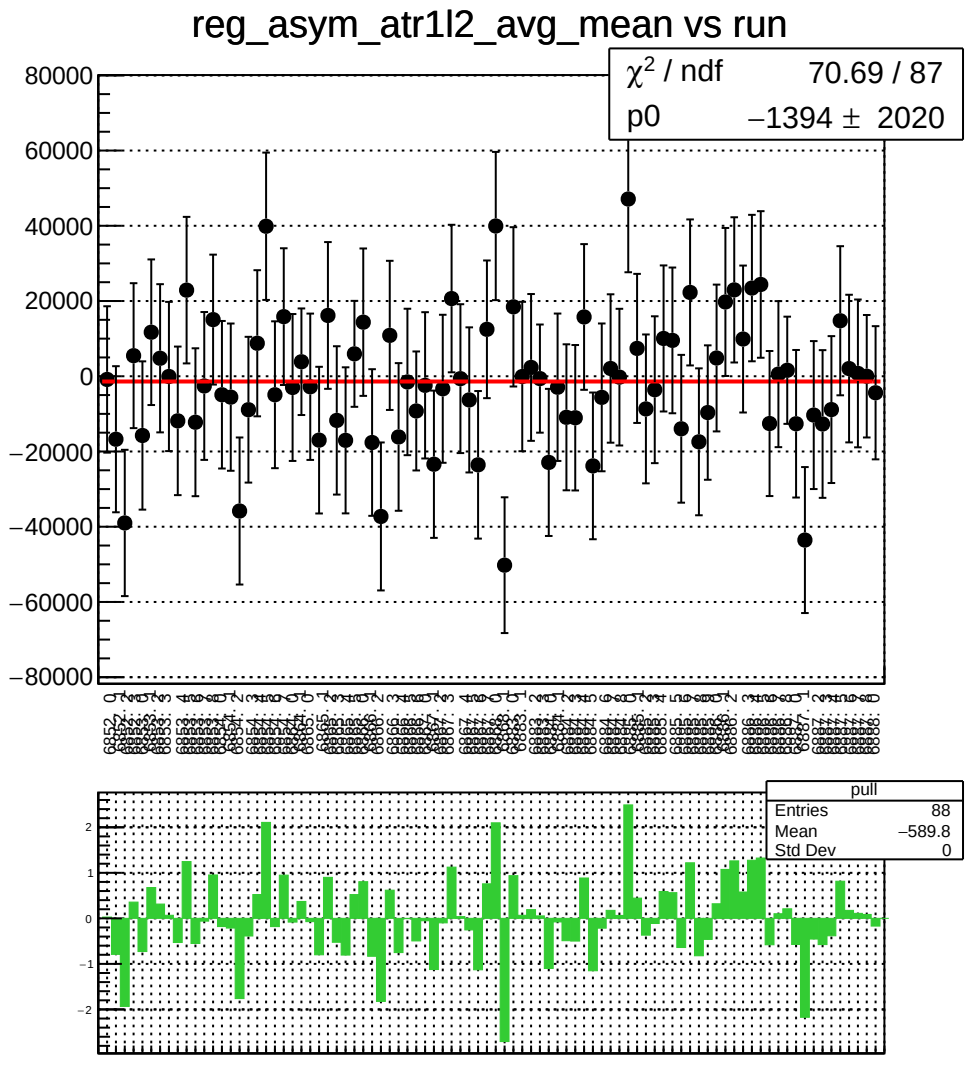

pull1D
Entries 88
Mean −0.0106
Std Dev 0.9122

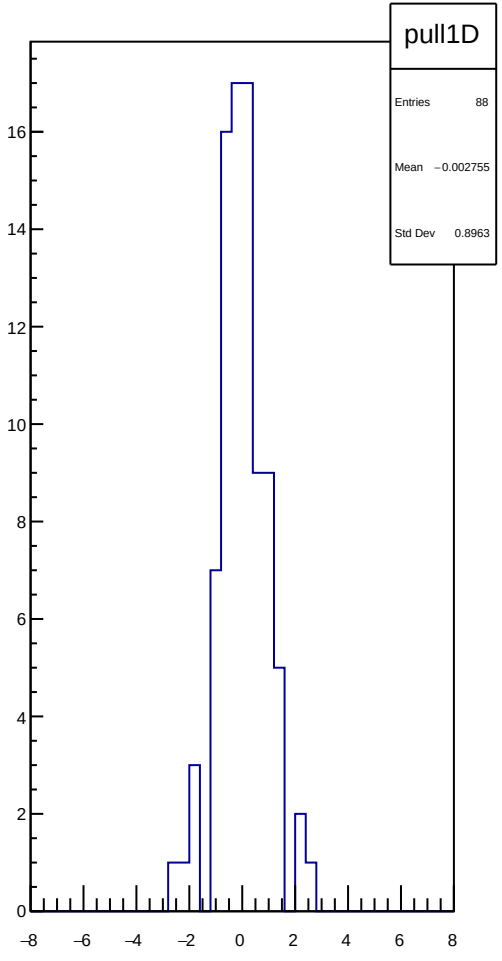

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.715e+04 / 87
p0 285.5 ± 0.2207
450
400
350
300
250

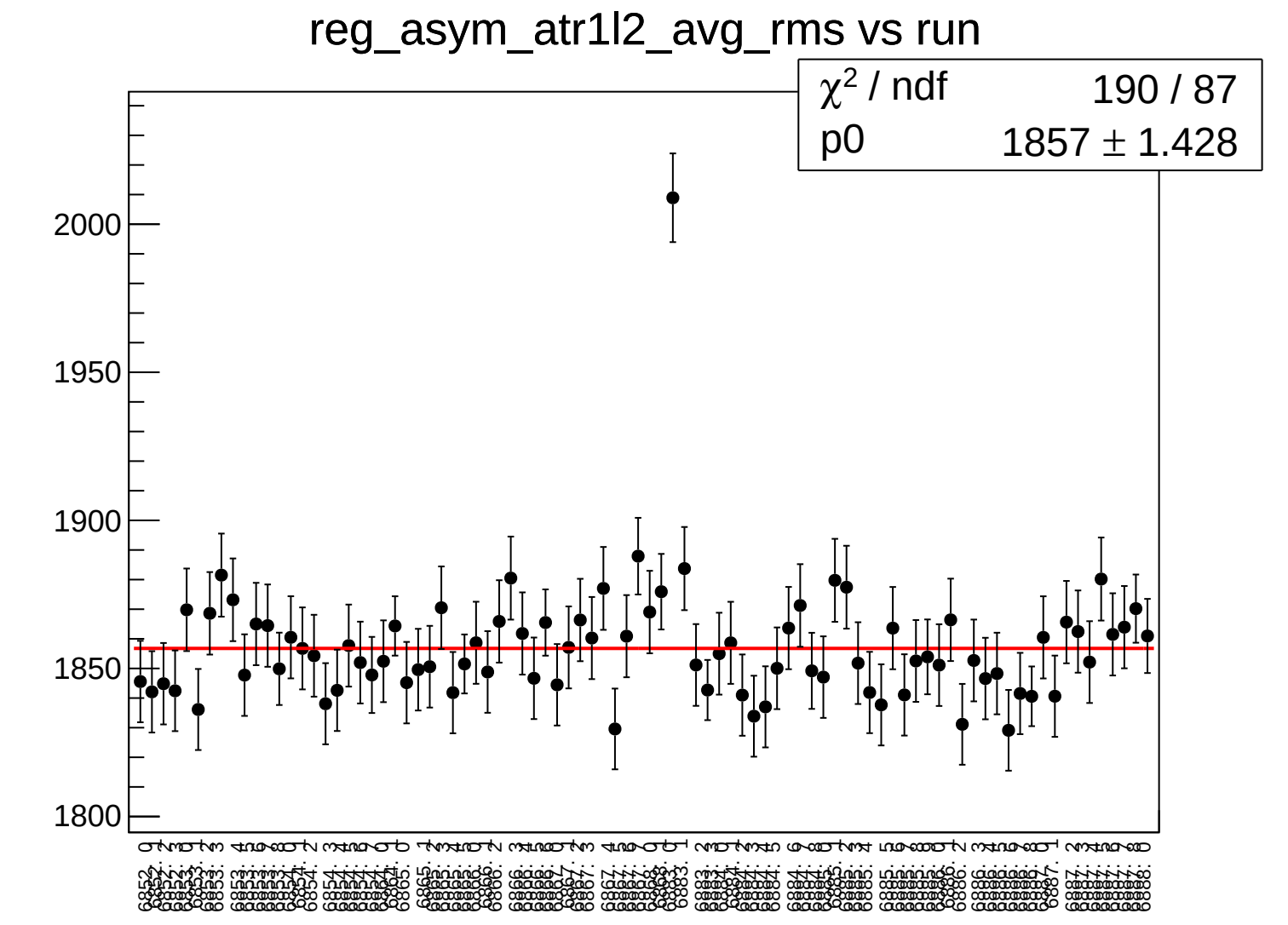

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.76 / 87
p0 9.692e−14 ± 7.501e−14
pull
Entries 88
Mean 130.8
Std Dev 0

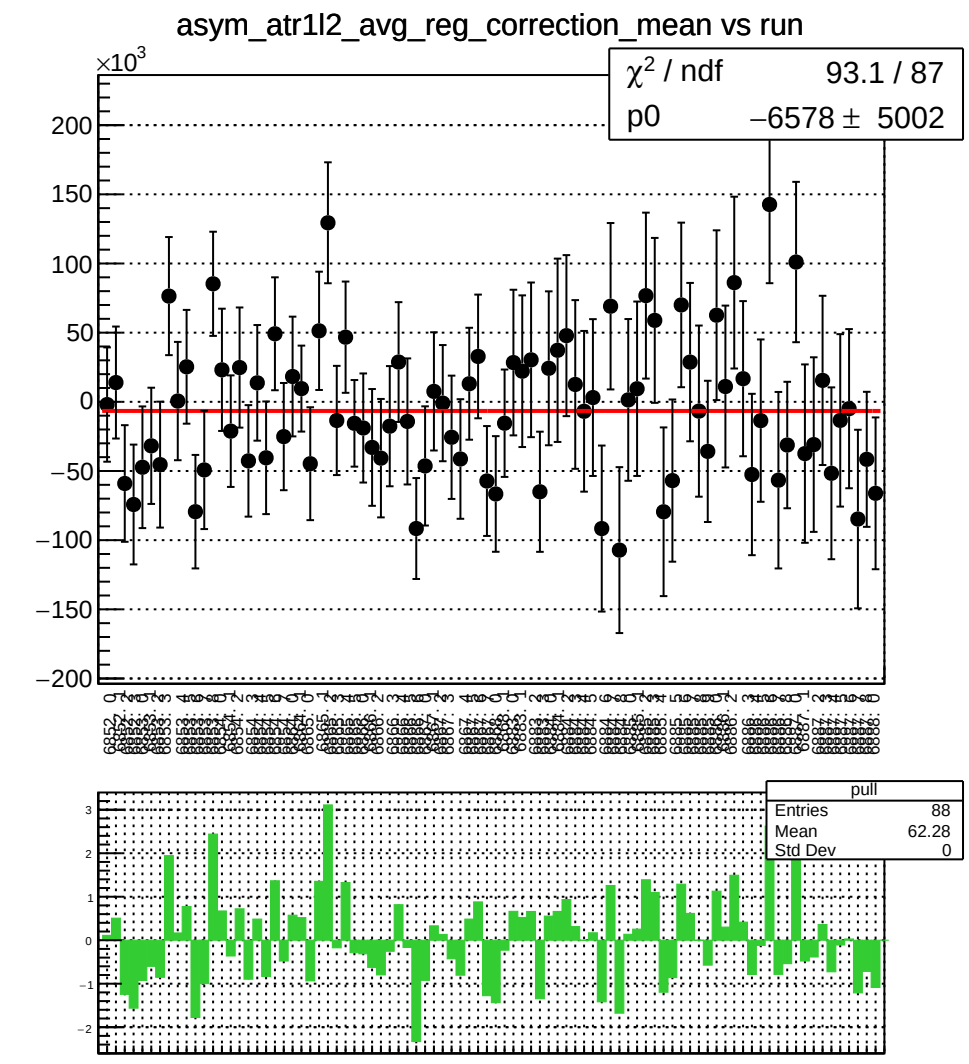

pull1D
Entries 88
Mean −0.02947
Std Dev 0.8507

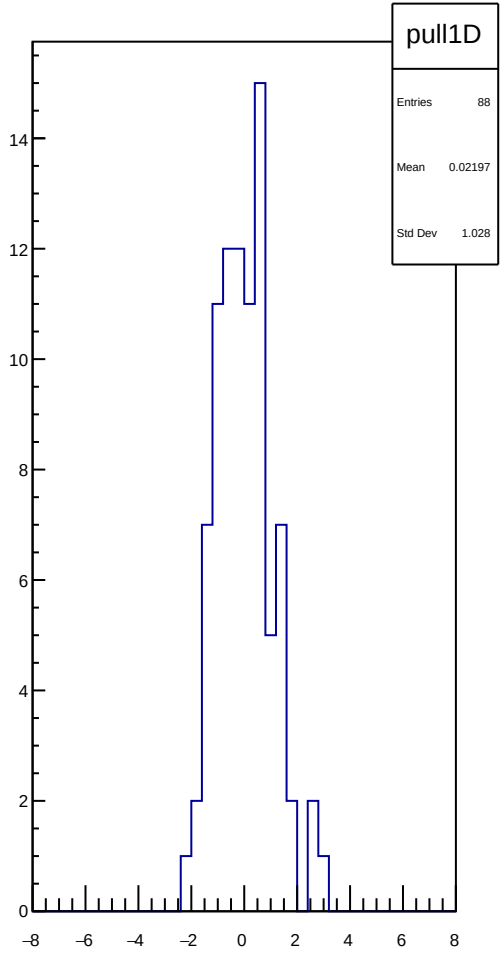

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.482e+05 / 87
p0 5.15e−11 ± 5.304e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

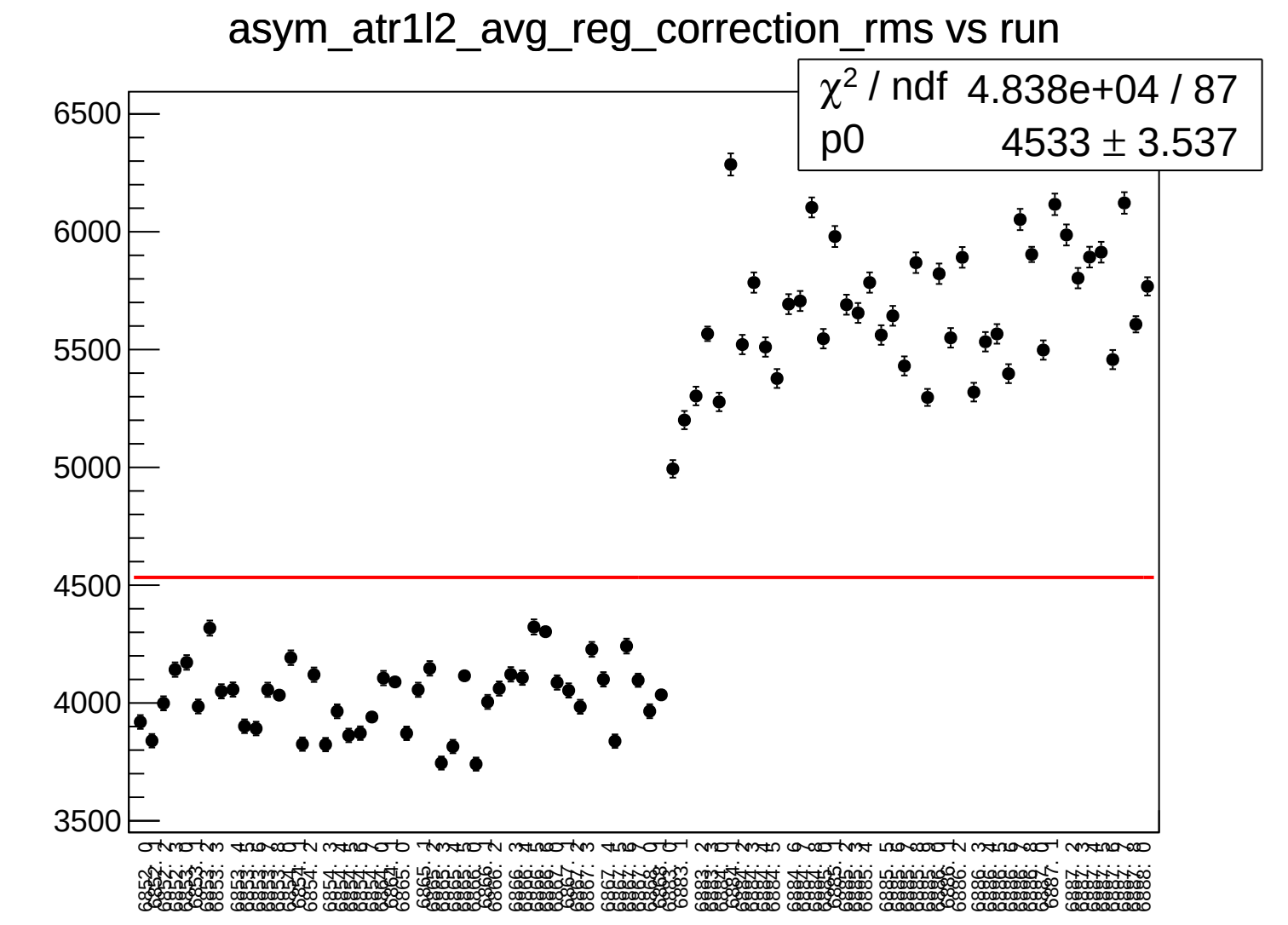

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 70.69 / 87
p0 −1394 ± 2020
pull
Entries 88
Mean −589.8
Std Dev 0

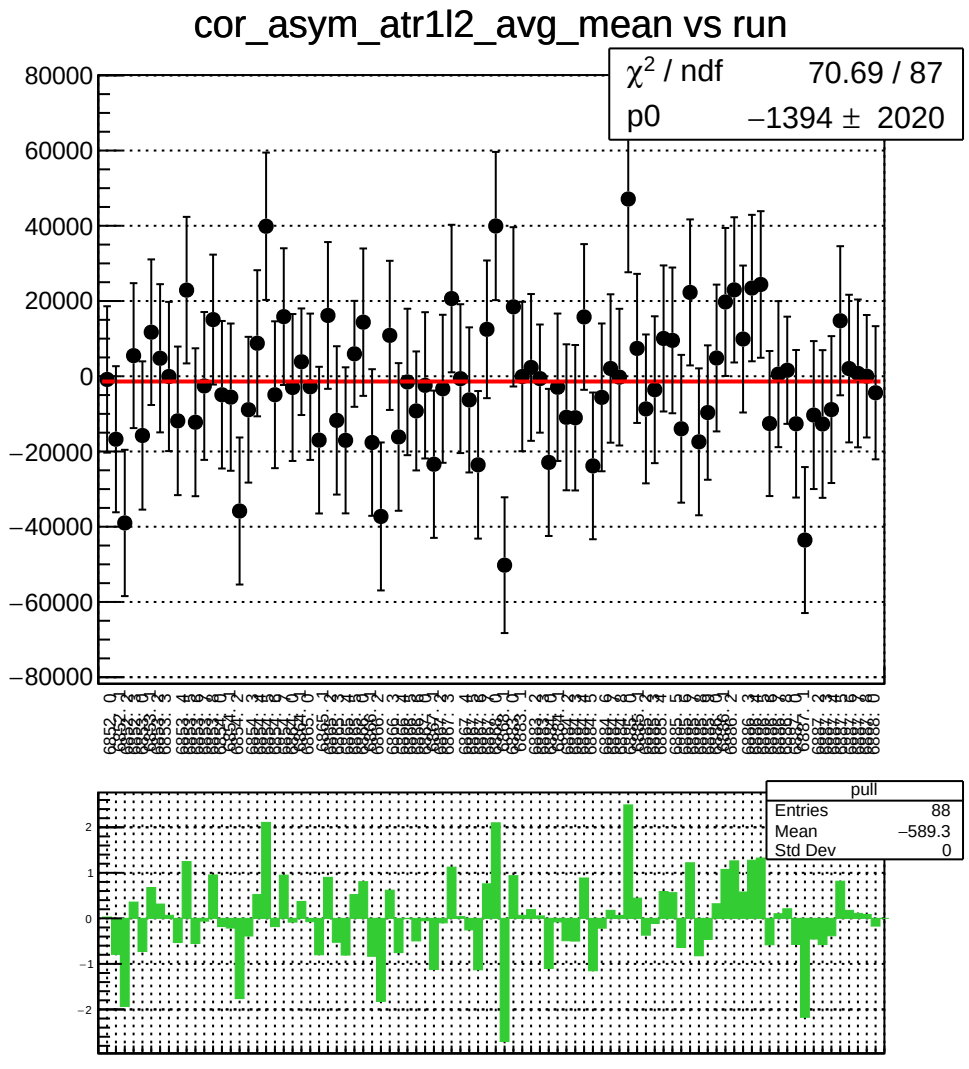

pull1D
Entries 88
Mean −0.002755
Std Dev 0.8963

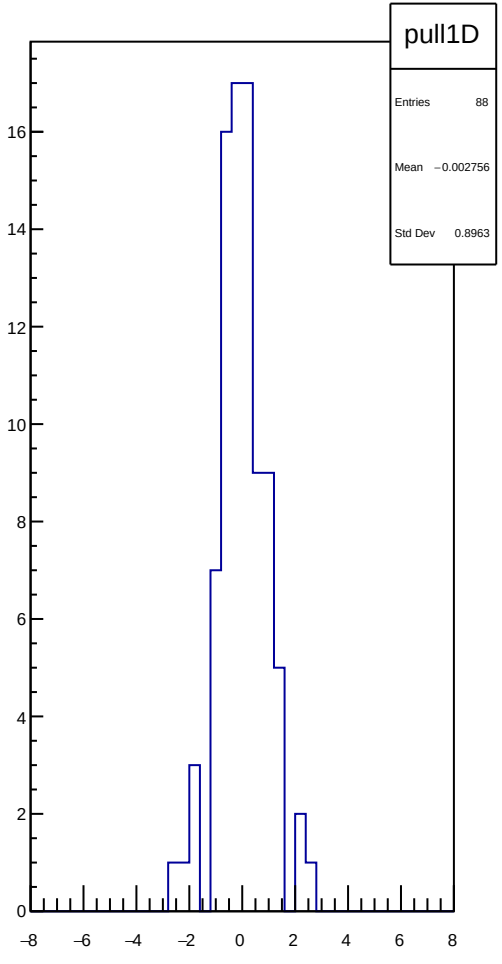

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 190 / 87
p0 1857 ± 1.428
2000
1950
1900
1850
1800

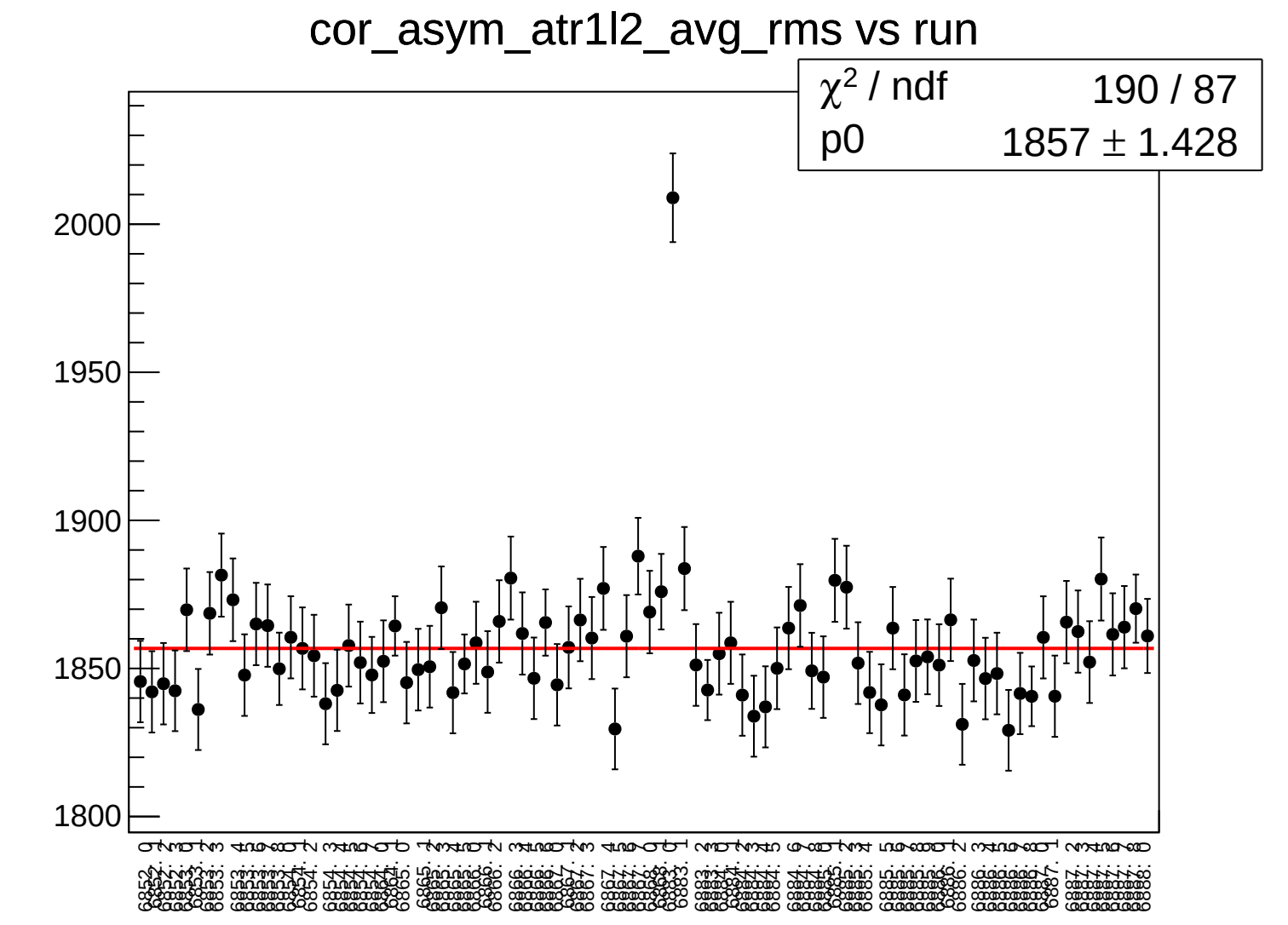

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 93.1 / 87
p0 −6578 ± 5002
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 62.28
Std Dev 0
3
2
1
0
−1
−2

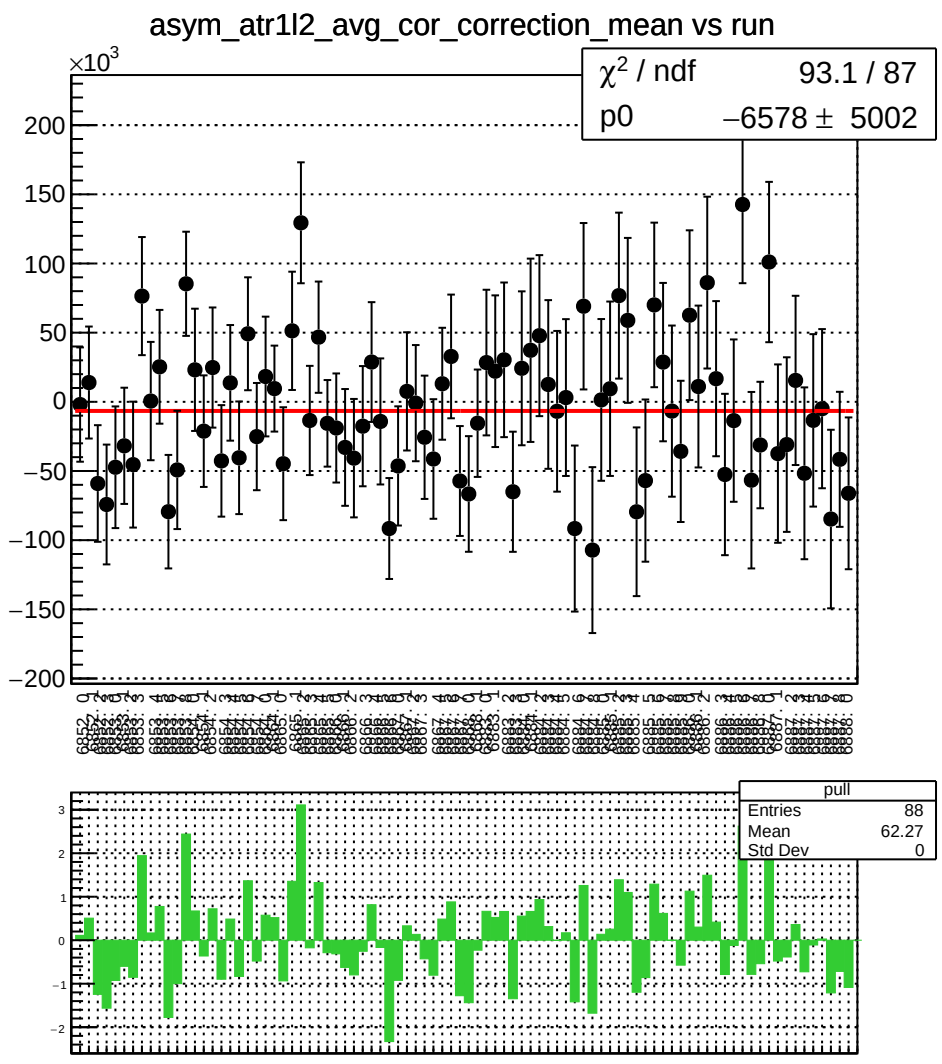

pull1D
Entries 88
Mean 0.02197
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

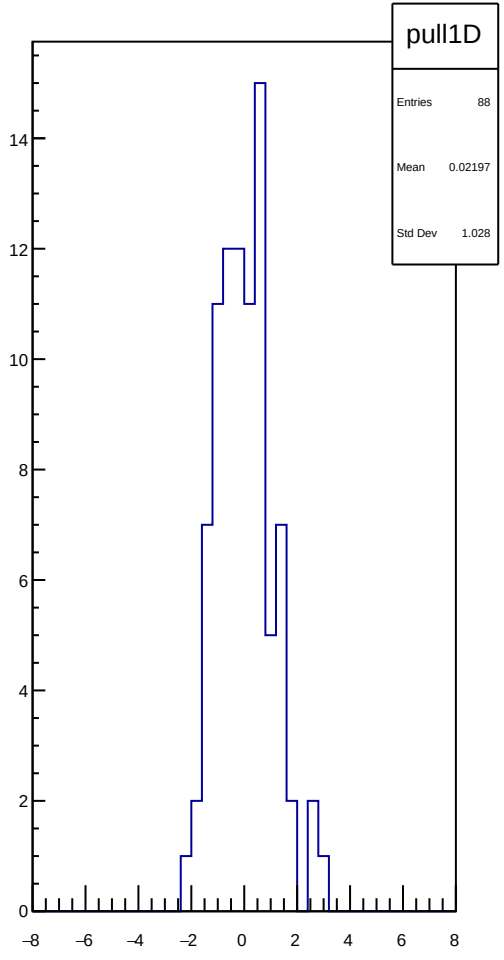

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 4.838e+04 / 87
p0 4533 ± 3.537
6500
6000
5500
5000
4500
4000
3500

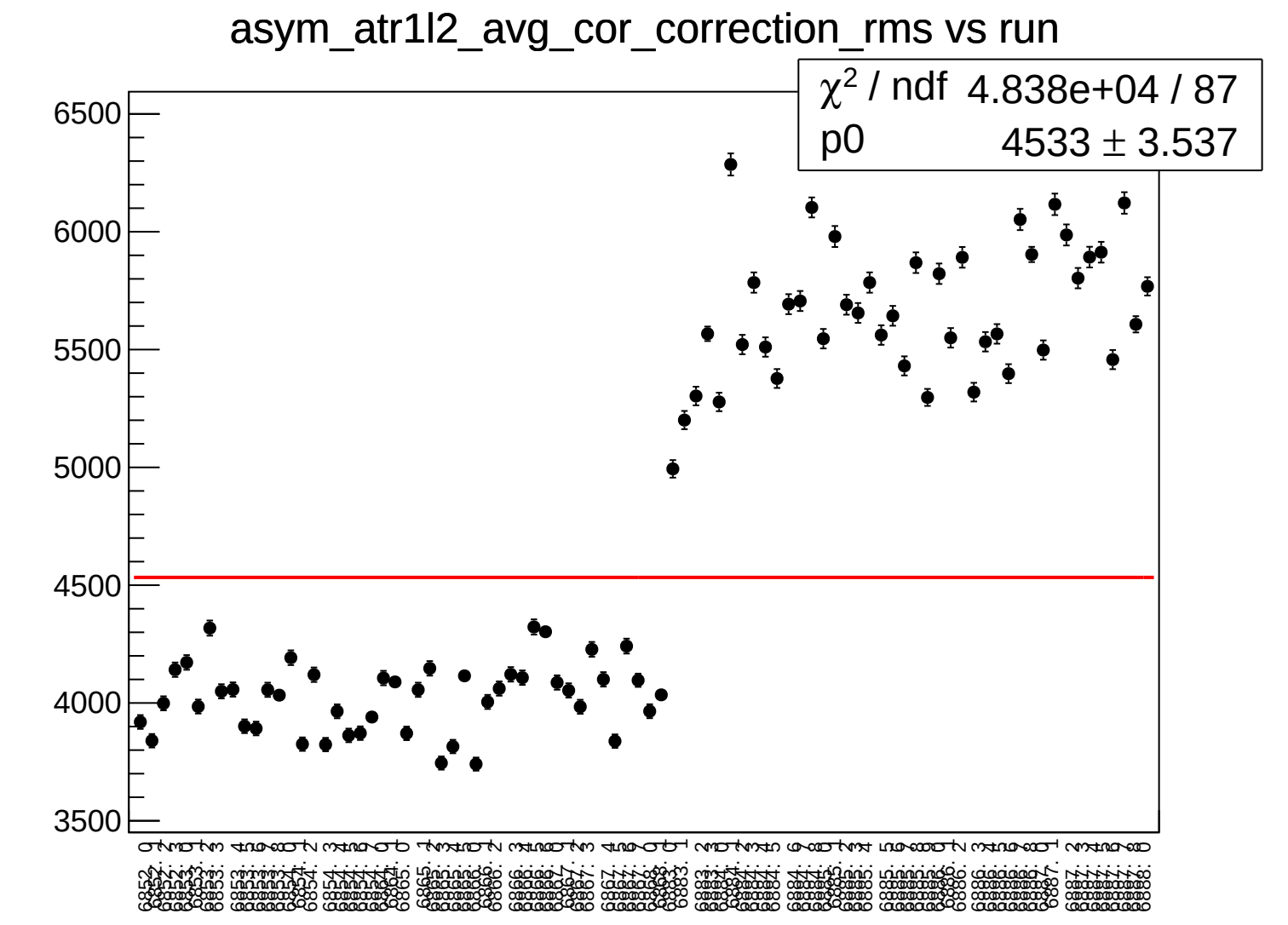

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 70.69 / 87
p0 −1394 ± 2020
pull
Entries 88
Mean −589.3
Std Dev 0

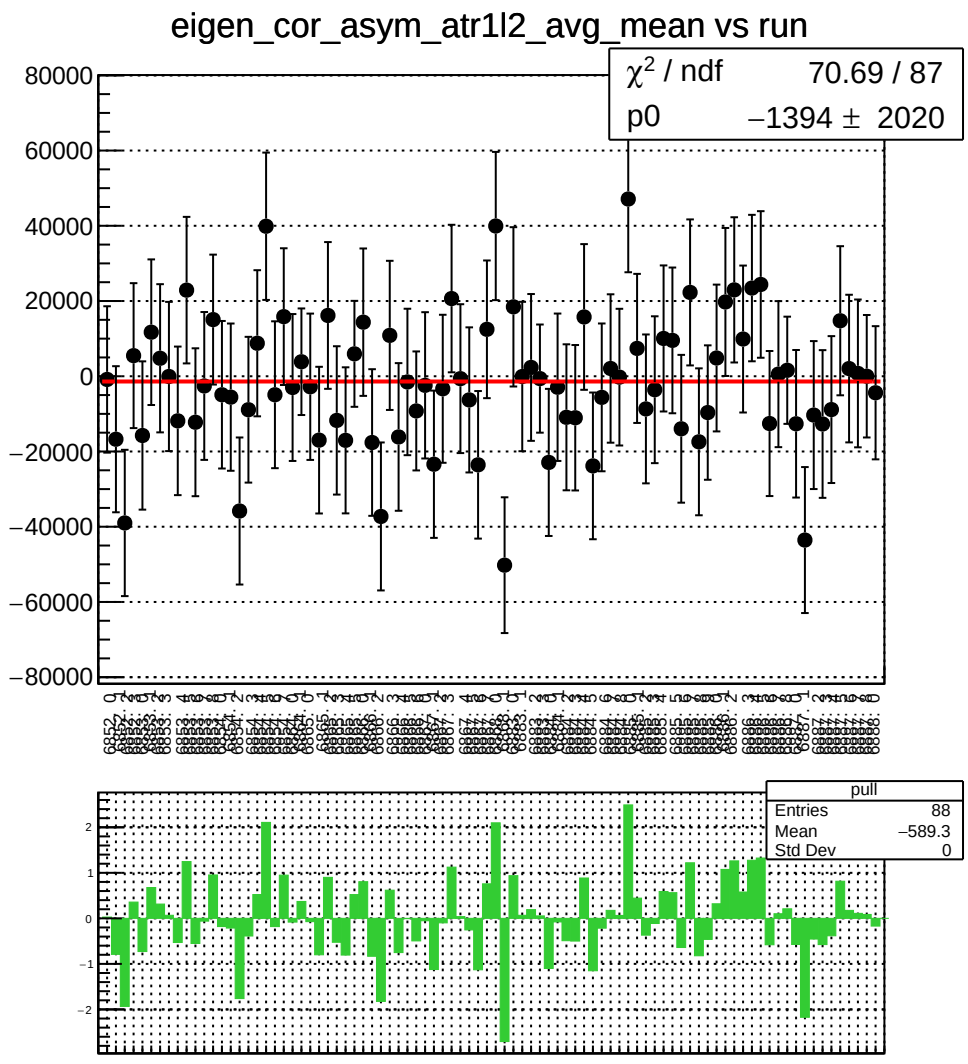

pull1D
Entries 88
Mean −0.002756
Std Dev 0.8963

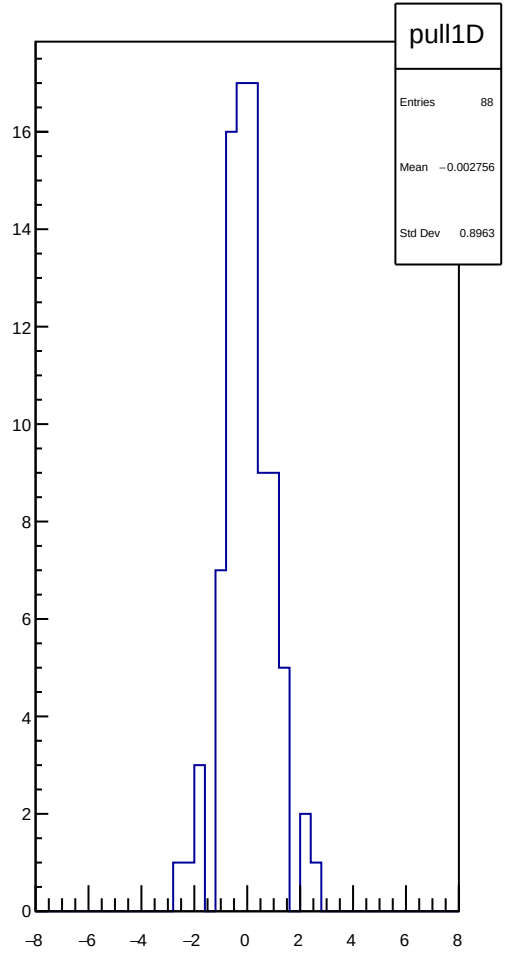

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 190 / 87
p0 1857 ± 1.428
2000
1950
1900
1850
1800

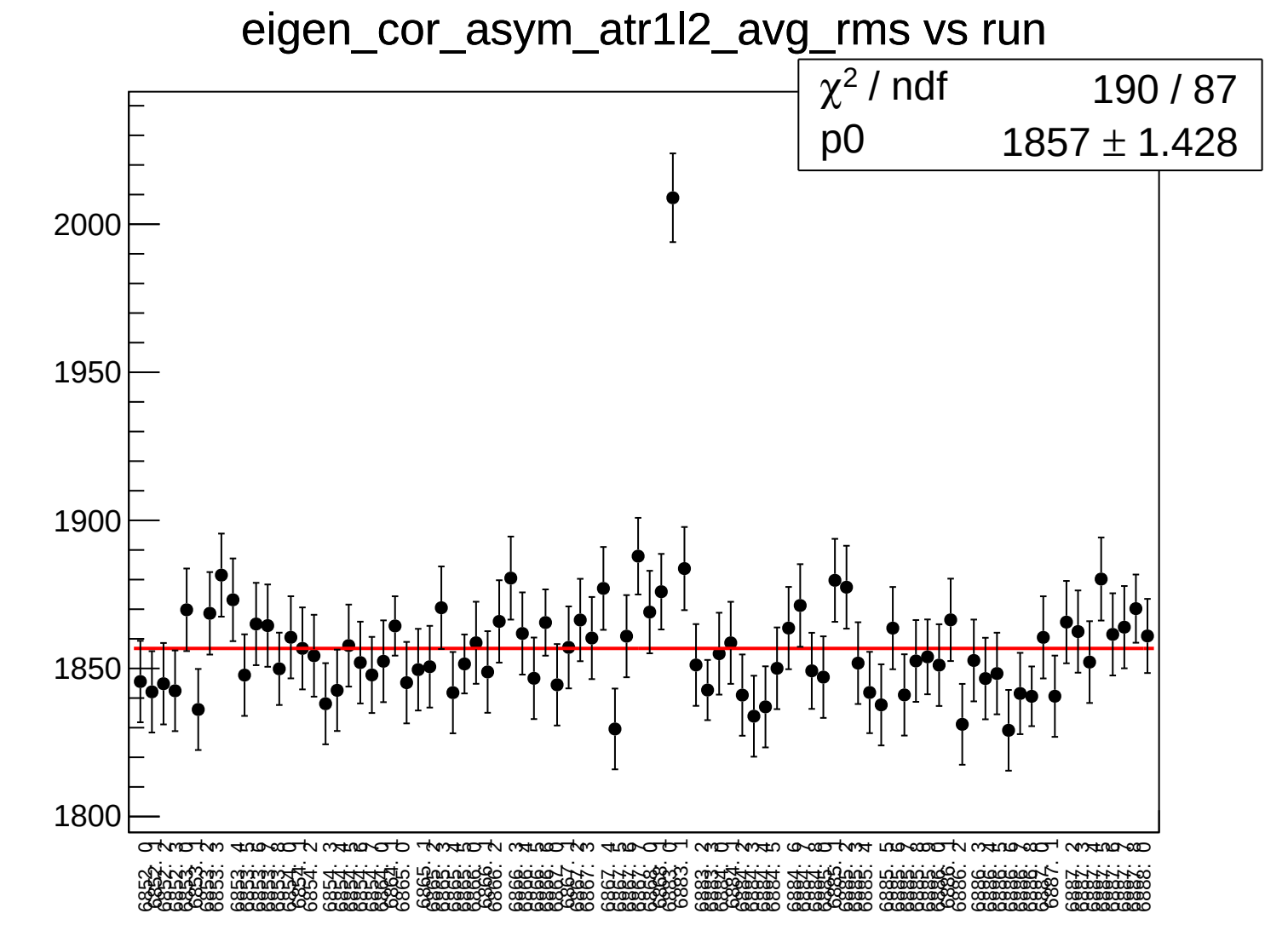

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 93.1 / 87
p0 −6578 ± 5002
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 62.27
Std Dev 0
3
2
1
0
−1
−2

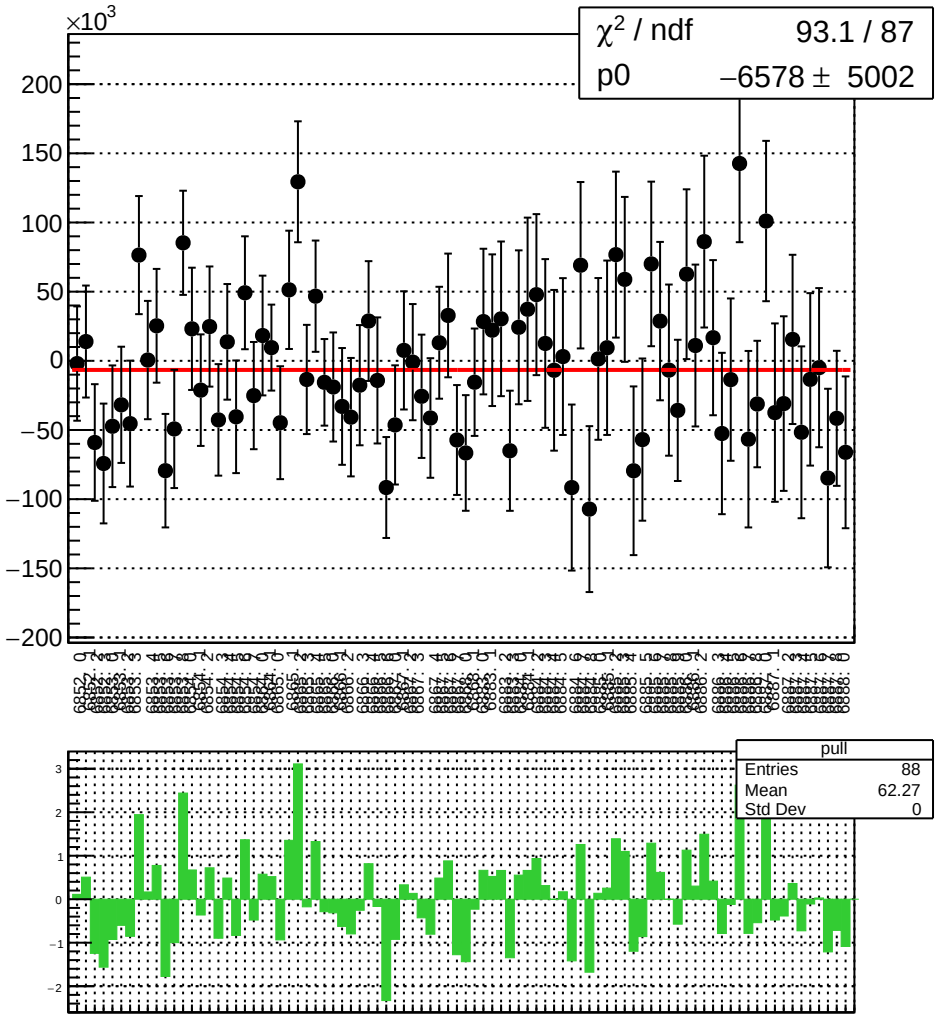

pull1D
Entries 88
Mean 0.02197
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

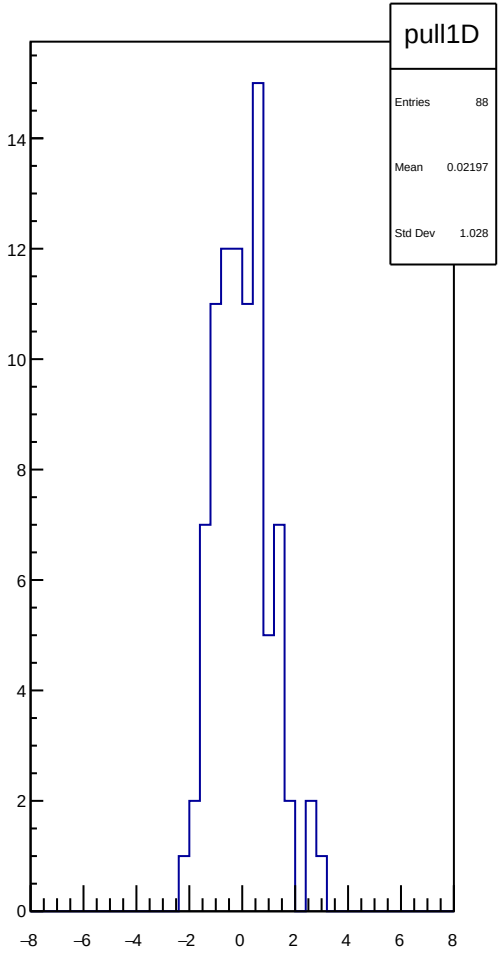

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 4.838e+04 / 87
p0 4533 ± 3.537
6500
6000
5500
5000
4500
4000
3500

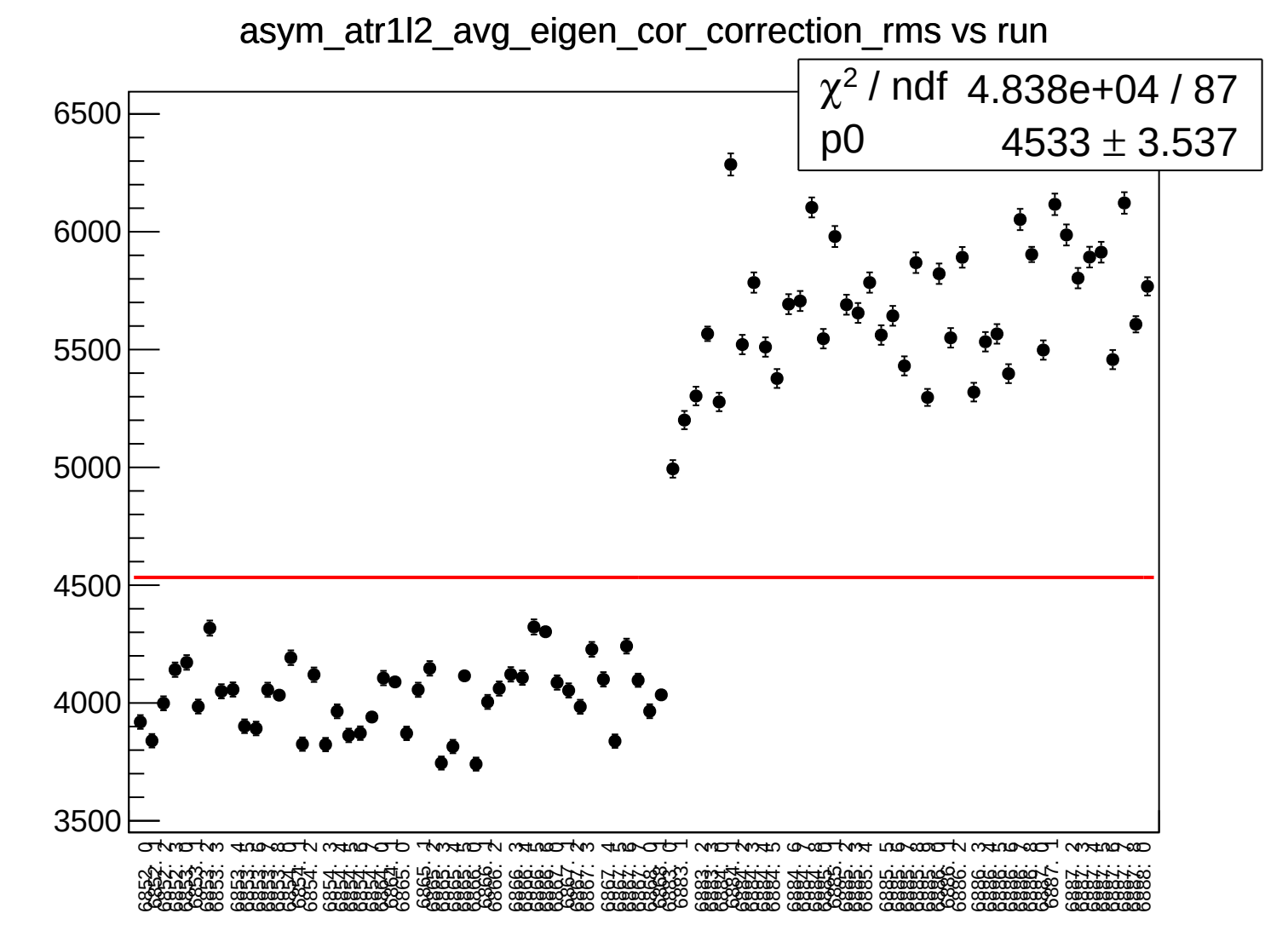

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 70.69 / 87
p0 −1394 ± 2020
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −589.3
Std Dev 0
2
1
0
−1
−2

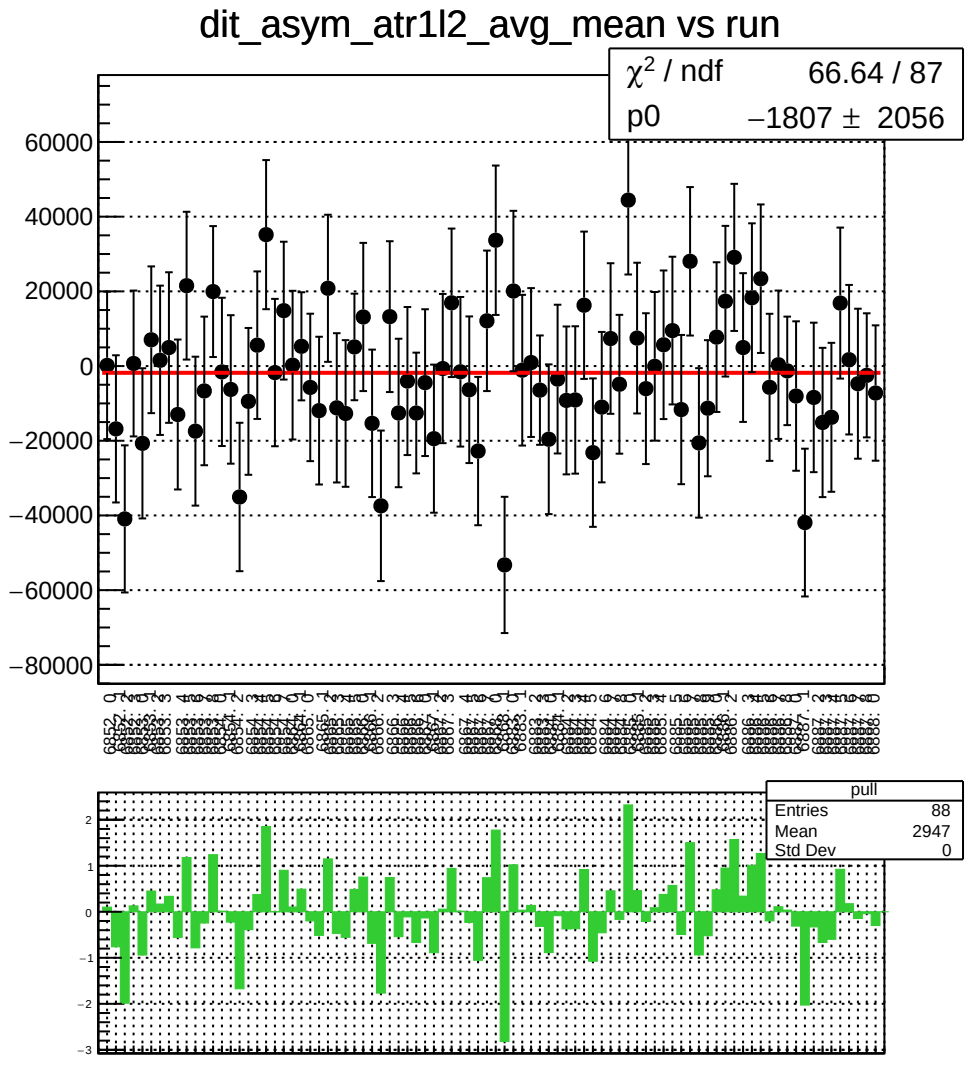

pull1D
Entries 88
Mean −0.002756
Std Dev 0.8963
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

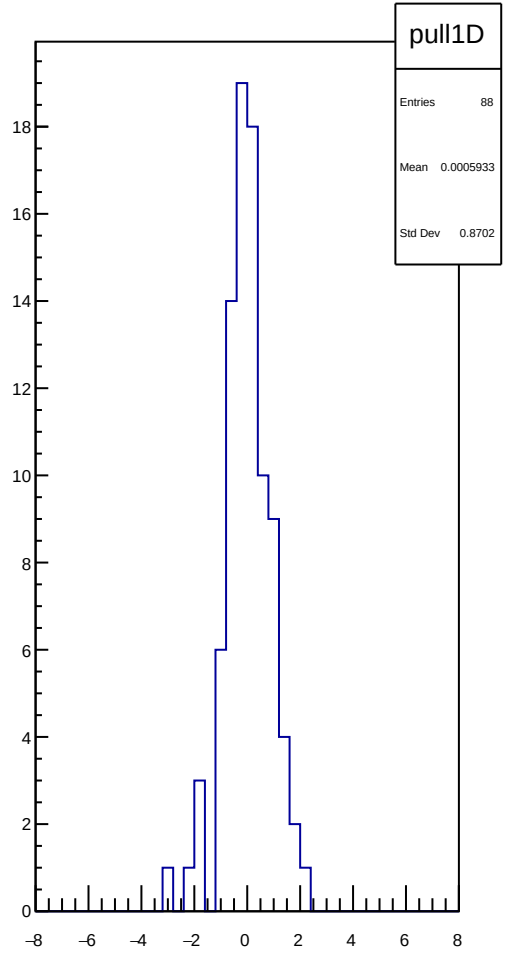

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 190 / 87
p0 1857 ± 1.428
2000
1950
1900
1850
1800

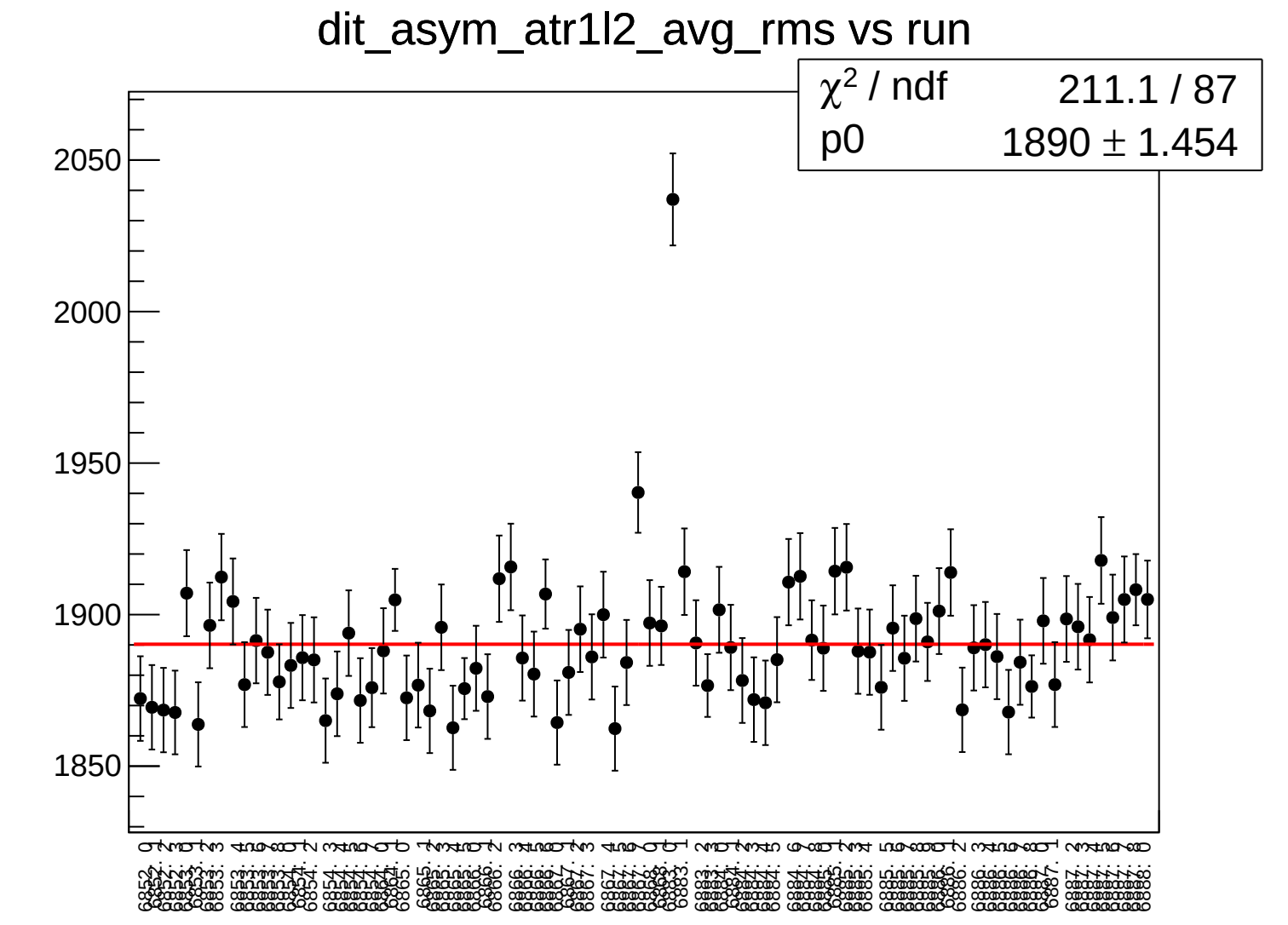

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 93.1 / 87
p0 −6578 ± 5002
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 62.27
Std Dev 0
3
2
1
0
−1
−2

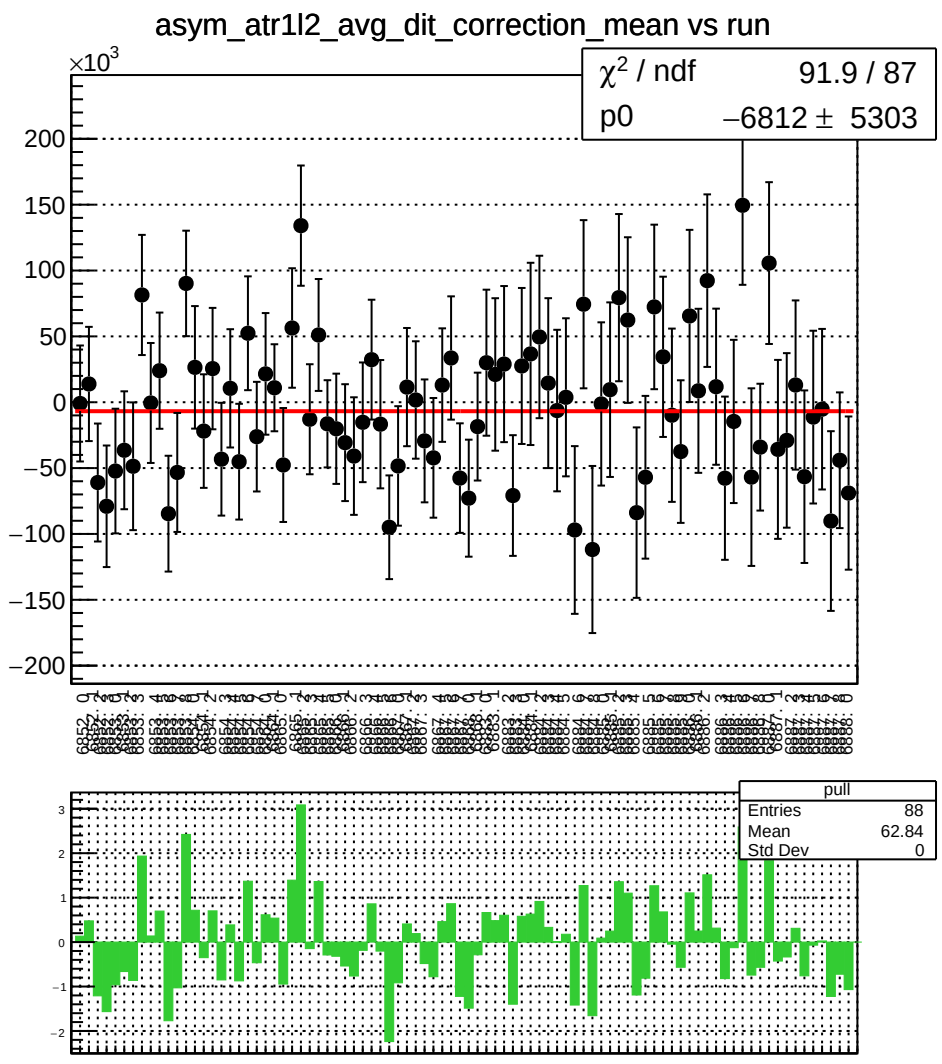

pull1D
Entries 88
Mean 0.02197
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

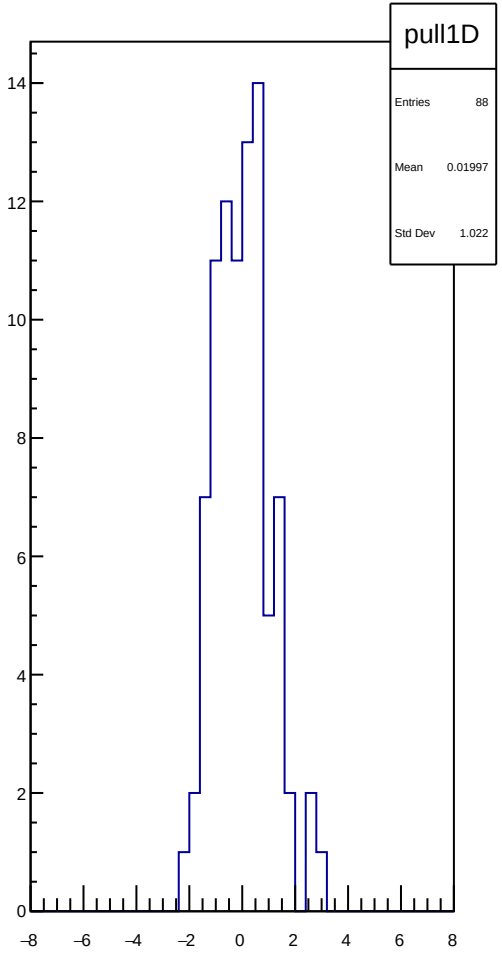

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.838e+04 / 87
p0 4533 ± 3.537
6500
6000
5500
5000
4500
4000
3500

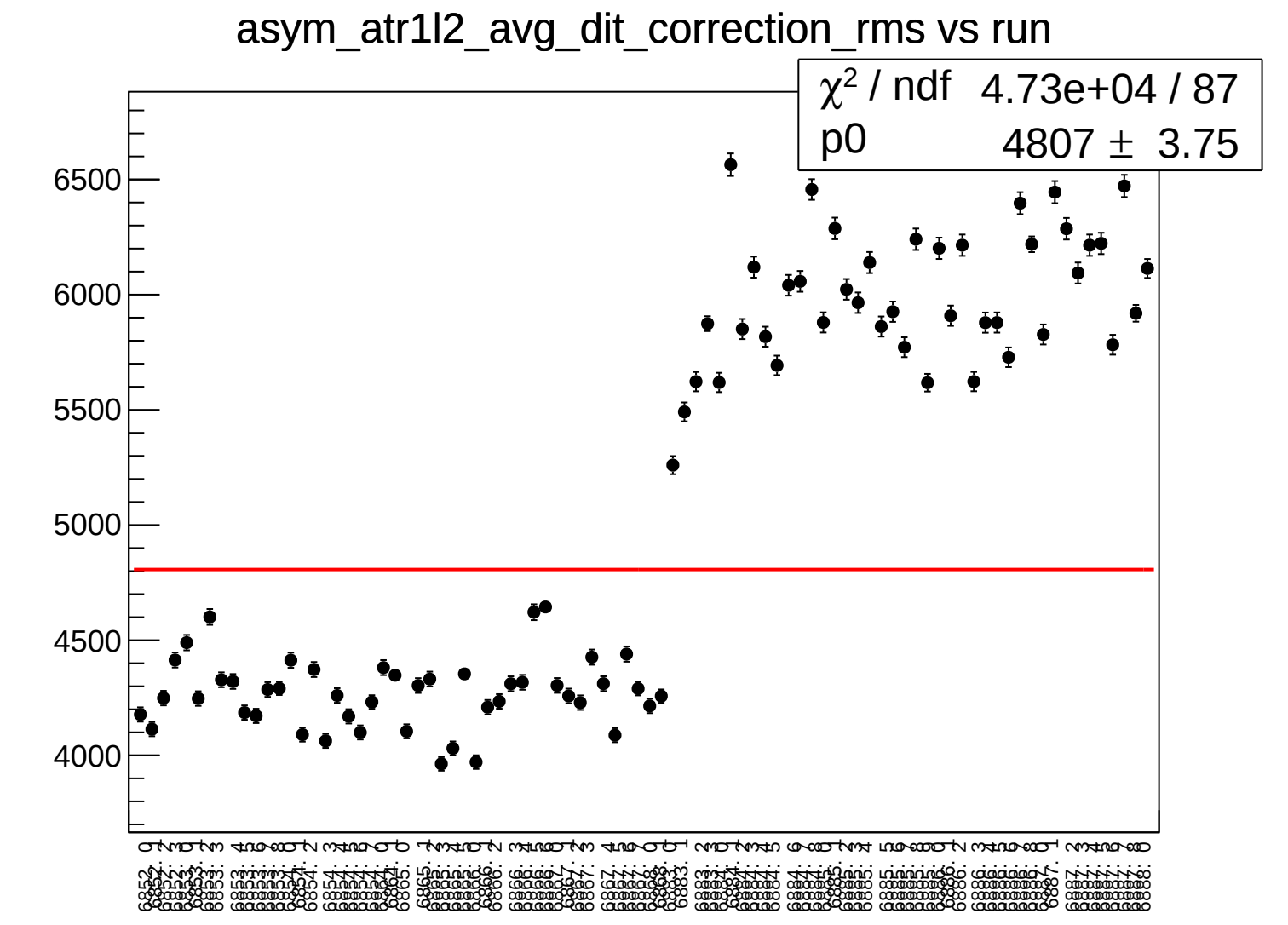

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 66.64 / 87
p0 −1807 ± 2056
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 2947
Std Dev 0
2
1
0
−1
−2
−3

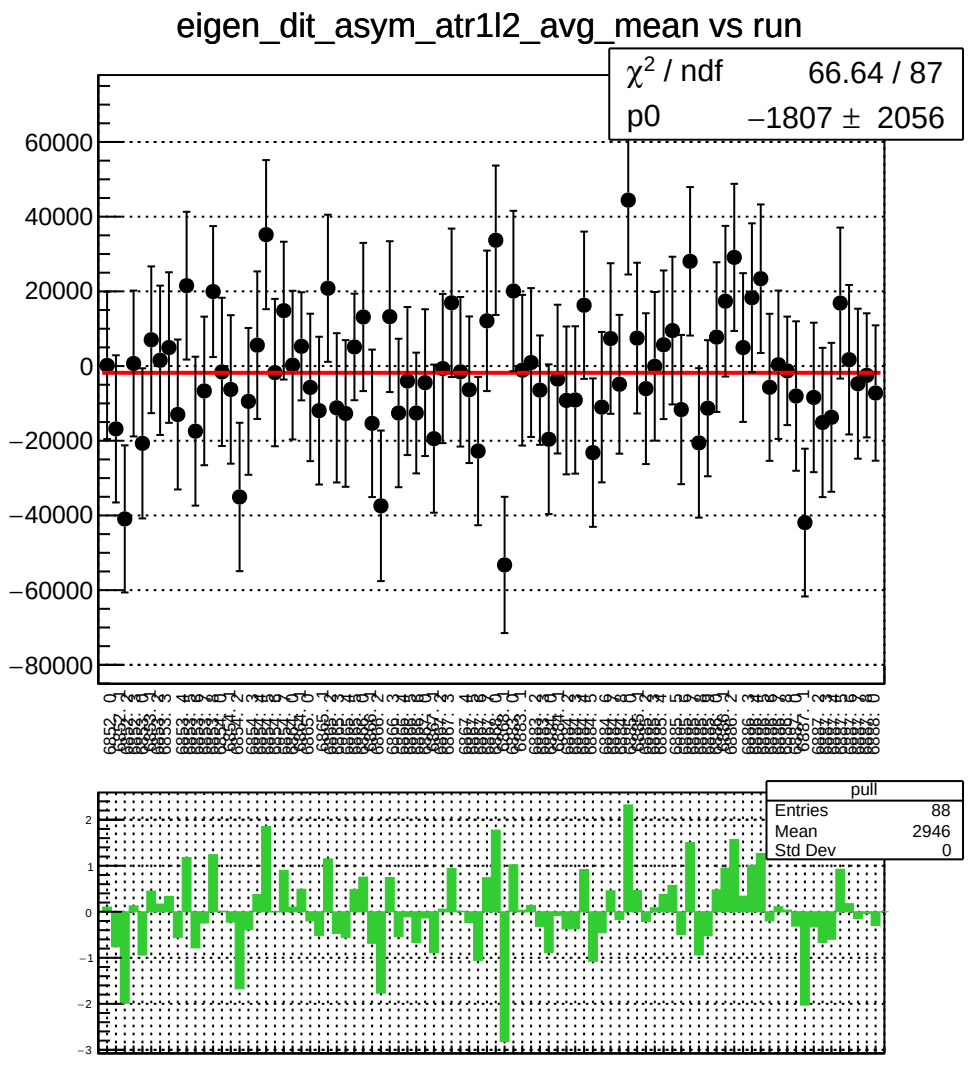

pull1D
Entries 88
Mean 0.0005933
Std Dev 0.8702
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

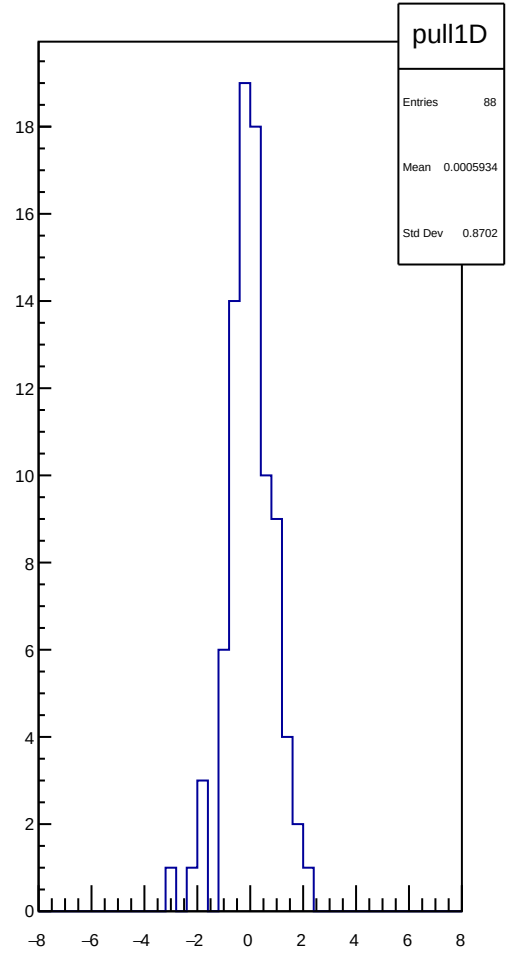

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 211.1 / 87
p0 1890 ± 1.454
2050
2000
1950
1900
1850

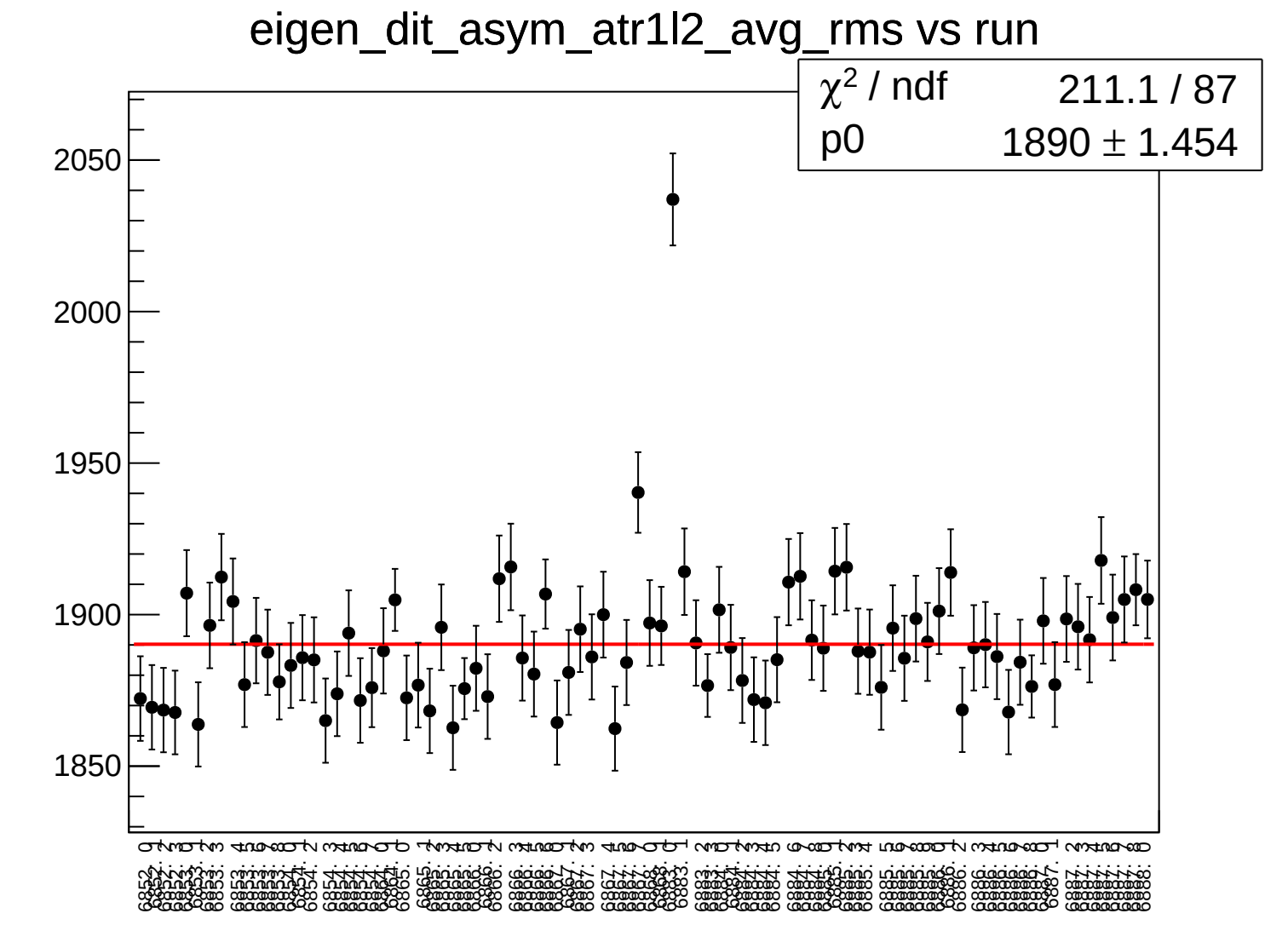

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91.9 / 87
p0 −6812 ± 5303
pull
Entries 88
Mean 62.84
Std Dev 0

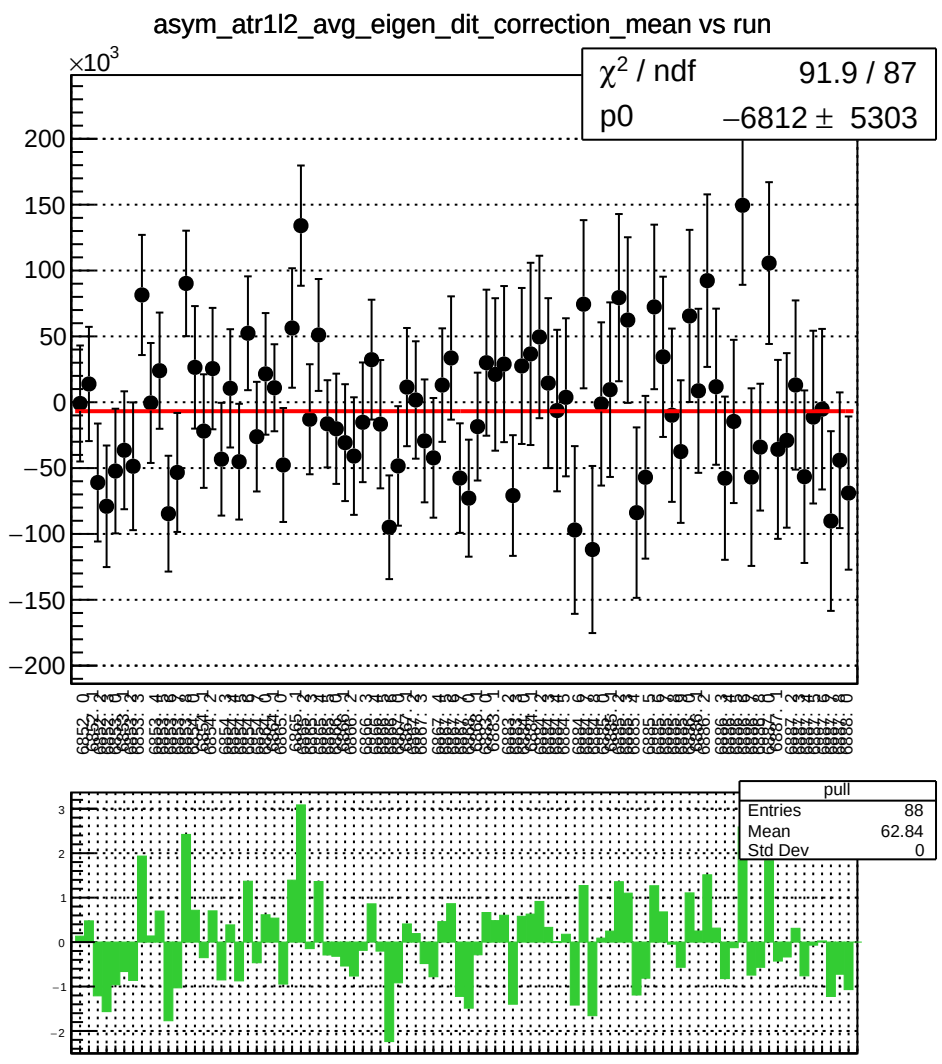

pull1D
Entries 88
Mean 0.01997
Std Dev 1.022

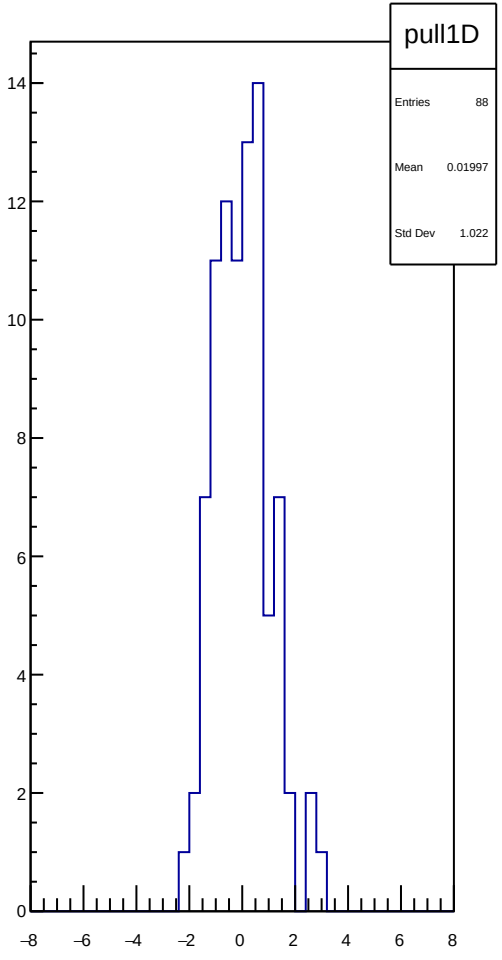

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 4.73e+04 / 87
p0 4807 ± 3.75
6500
6000
5500
5000
4500
4000

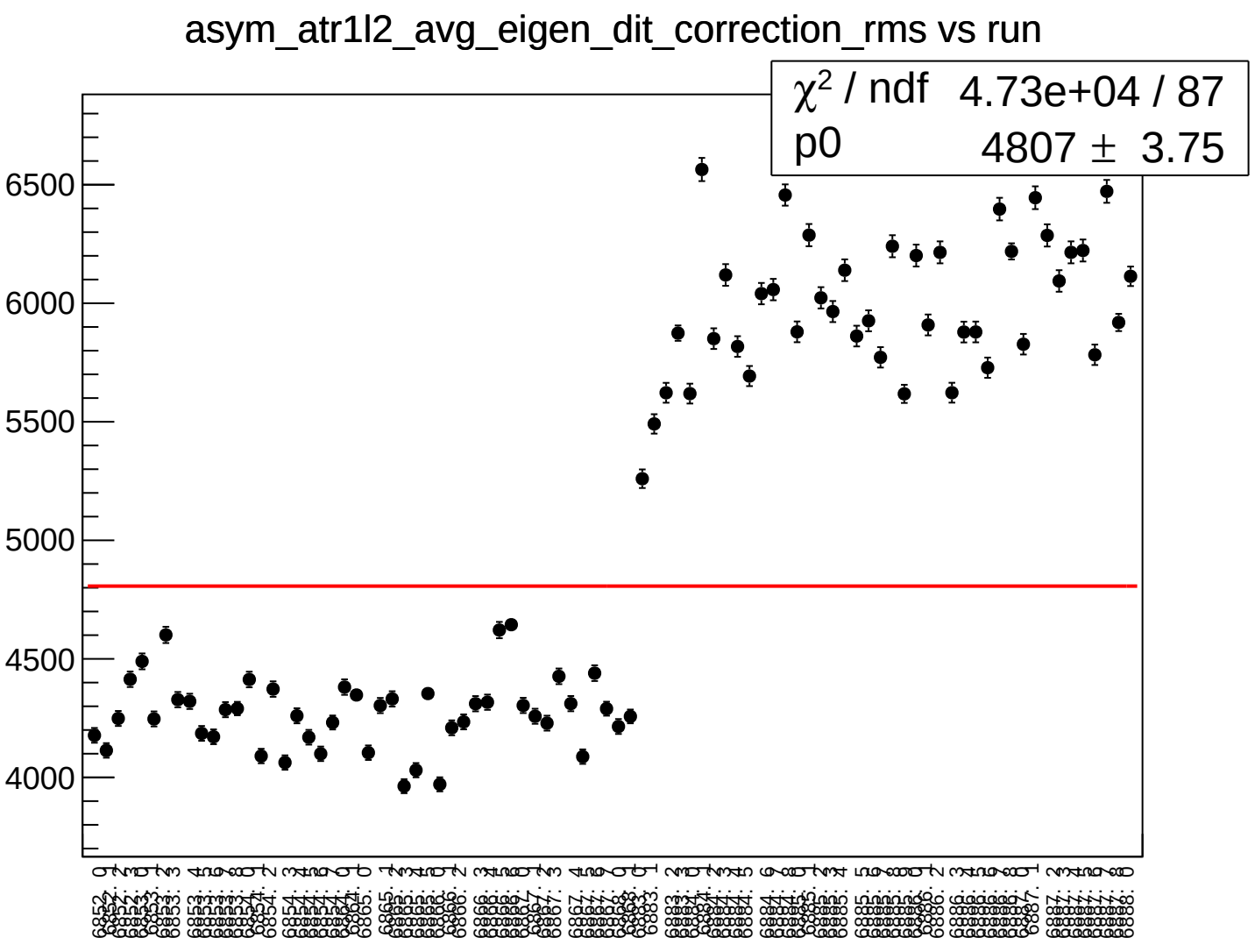

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 66.64 / 87
p0 −1807 ± 2056
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 2946
Std Dev 0
2
1
0
−1
−2
−3

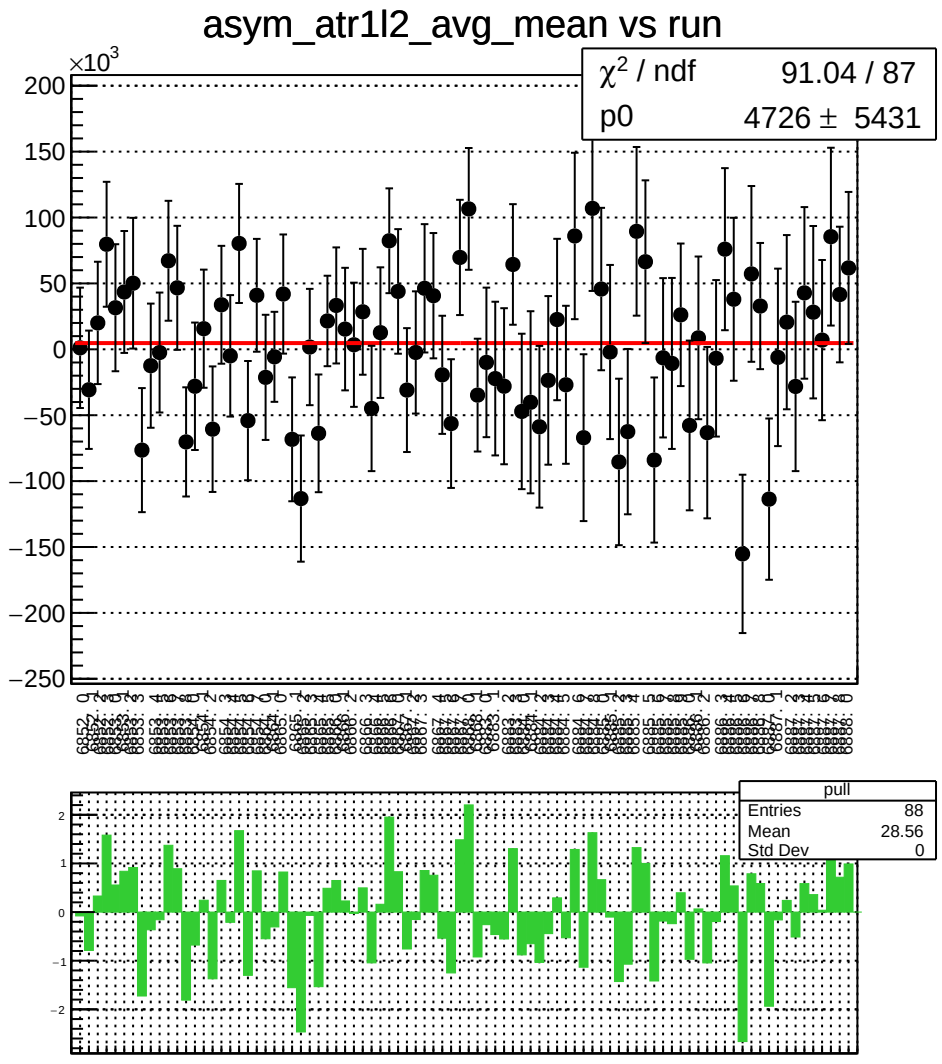

pull1D
Entries 88
Mean 0.0005934
Std Dev 0.8702
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

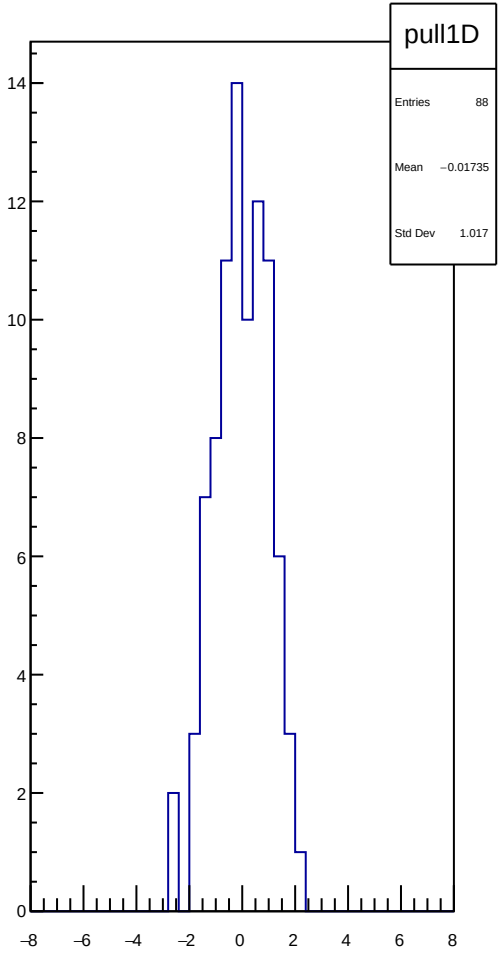

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 211.1 / 87
p0 1890 ± 1.454
2050
2000
1950
1900
1850

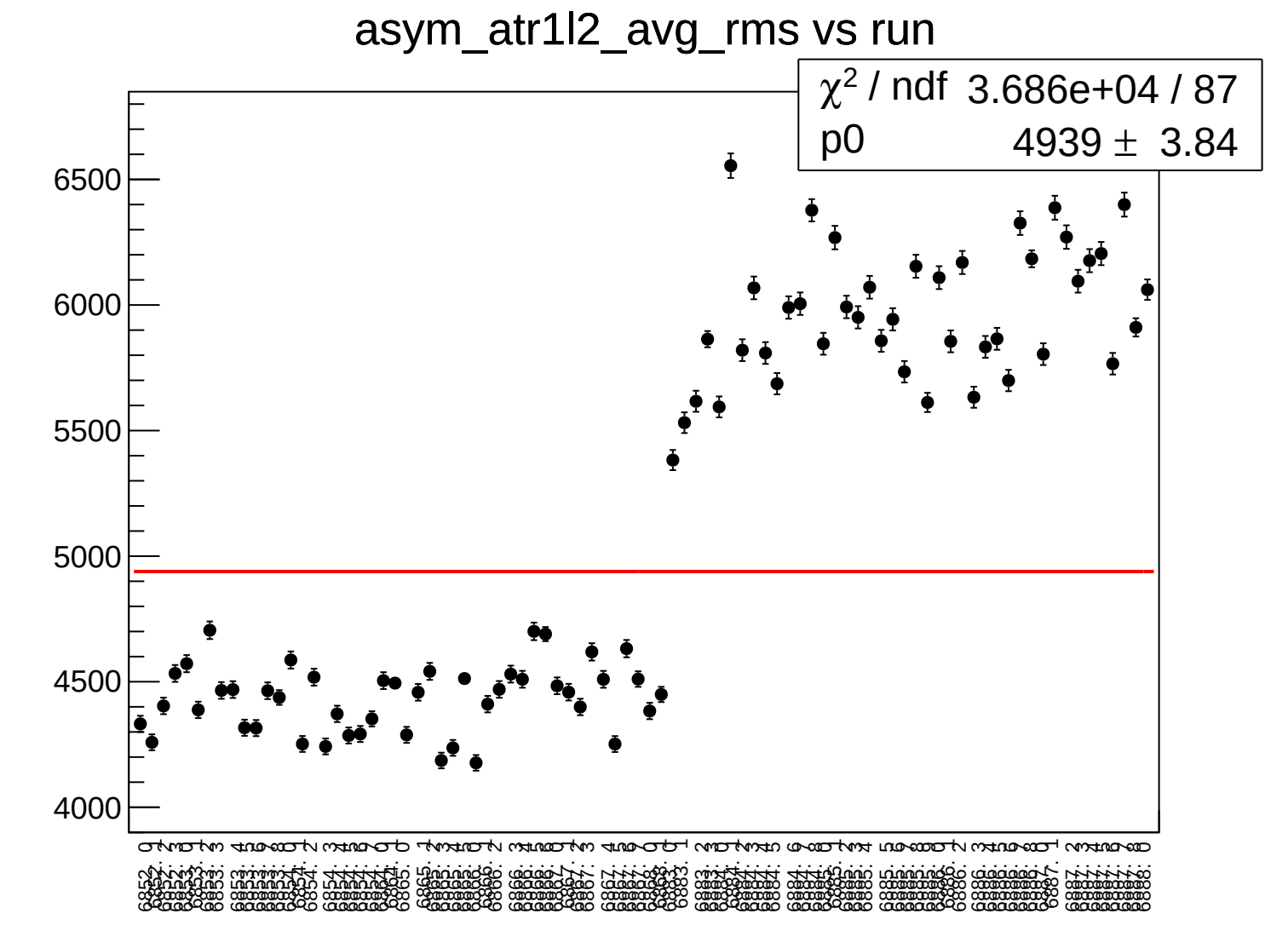

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.9 / 87
p0 −6812 ± 5303
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 62.84
Std Dev 0
3
2
1
0
−1
−2

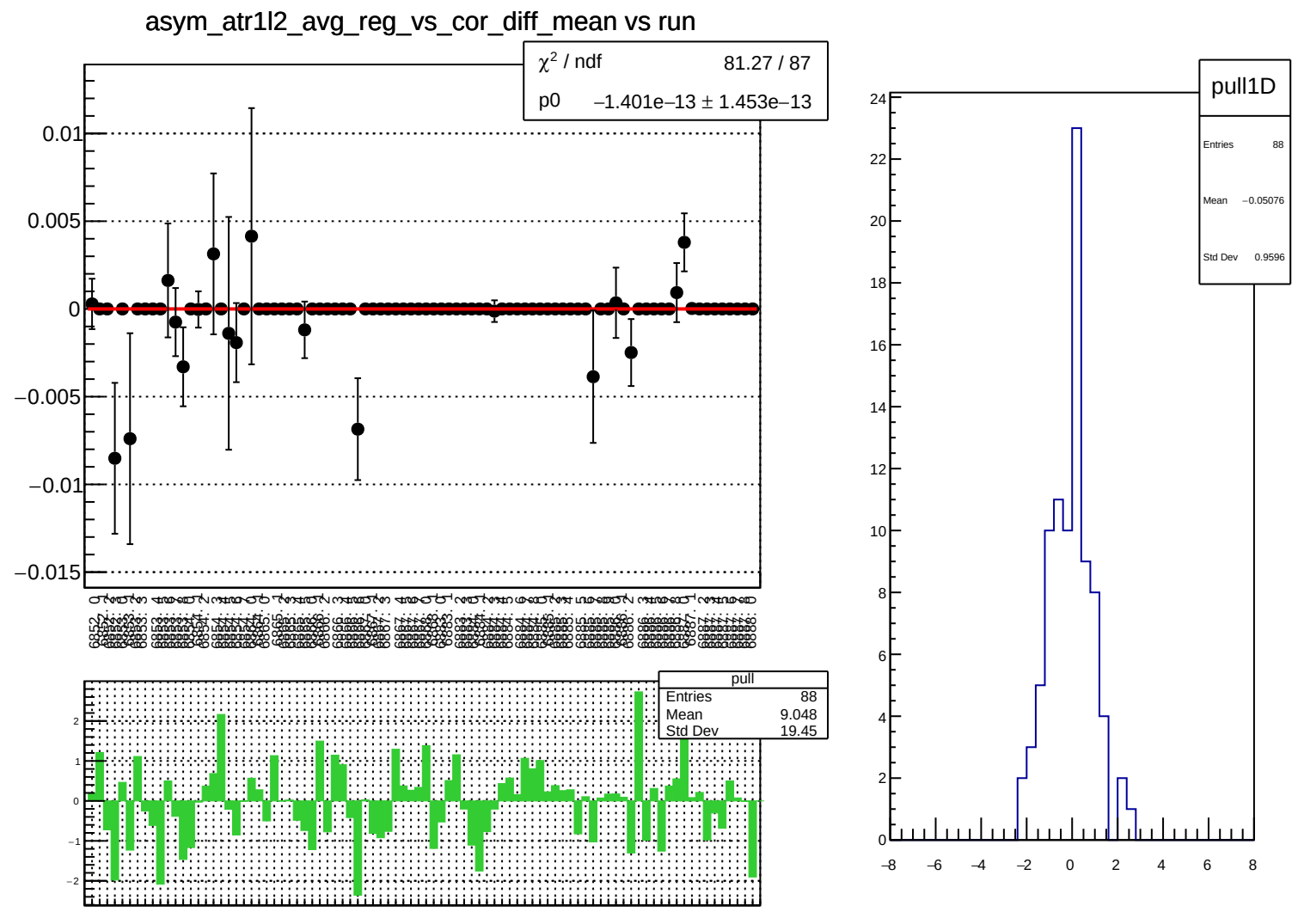

pull1D
Entries 88
Mean 0.01997
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

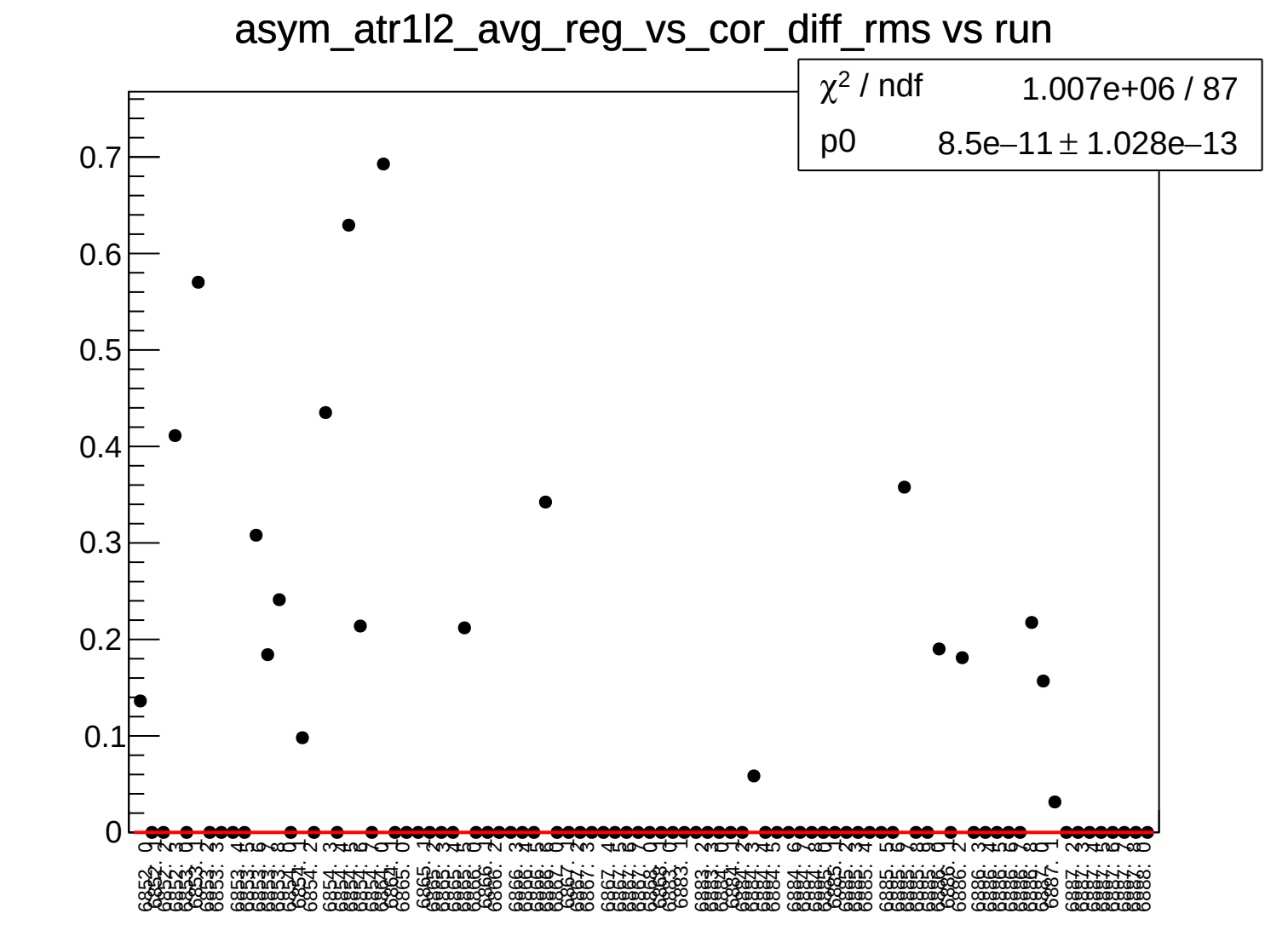

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.73e+04 / 87
p0 4807 ± 3.75
6500
6000
5500
5000
4500
4000

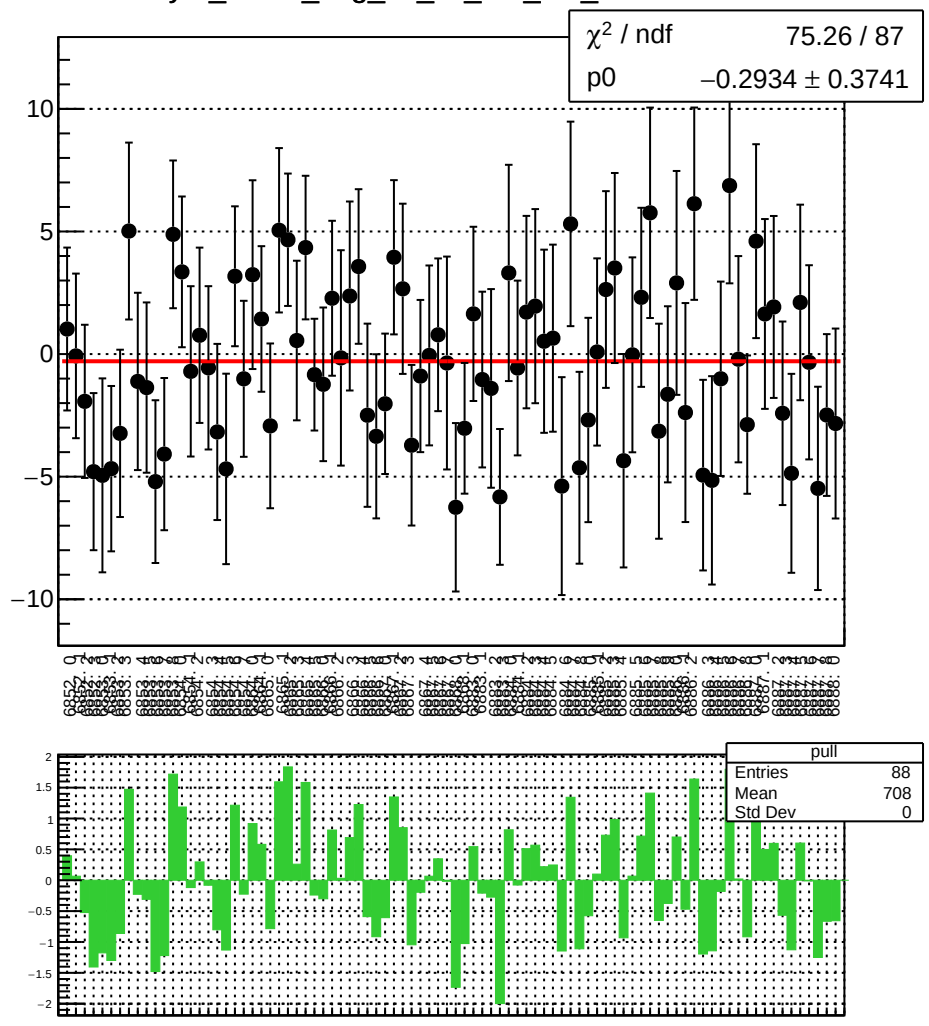

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 91.04 / 87
p0 4726 ± 5431
pull
Entries 88
Mean 28.56
Std Dev 0

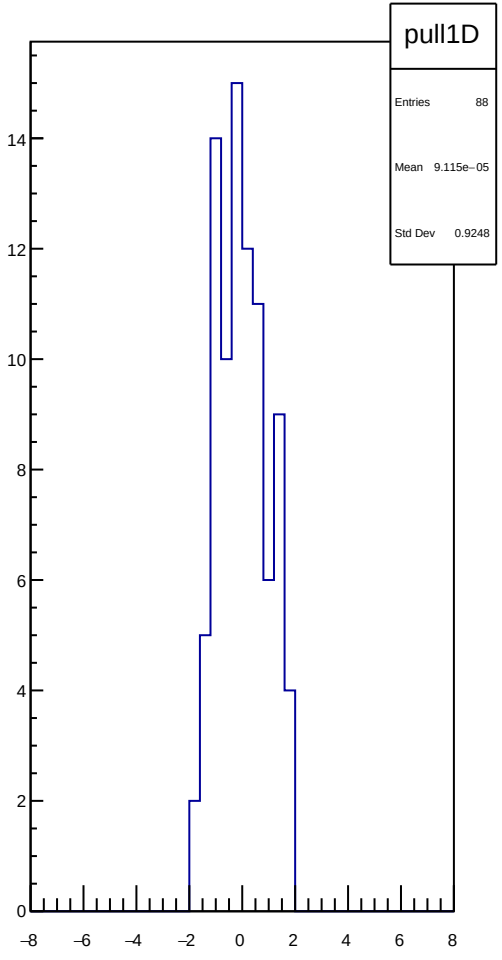

pull1D
Entries 88
Mean −0.01735
Std Dev 1.017

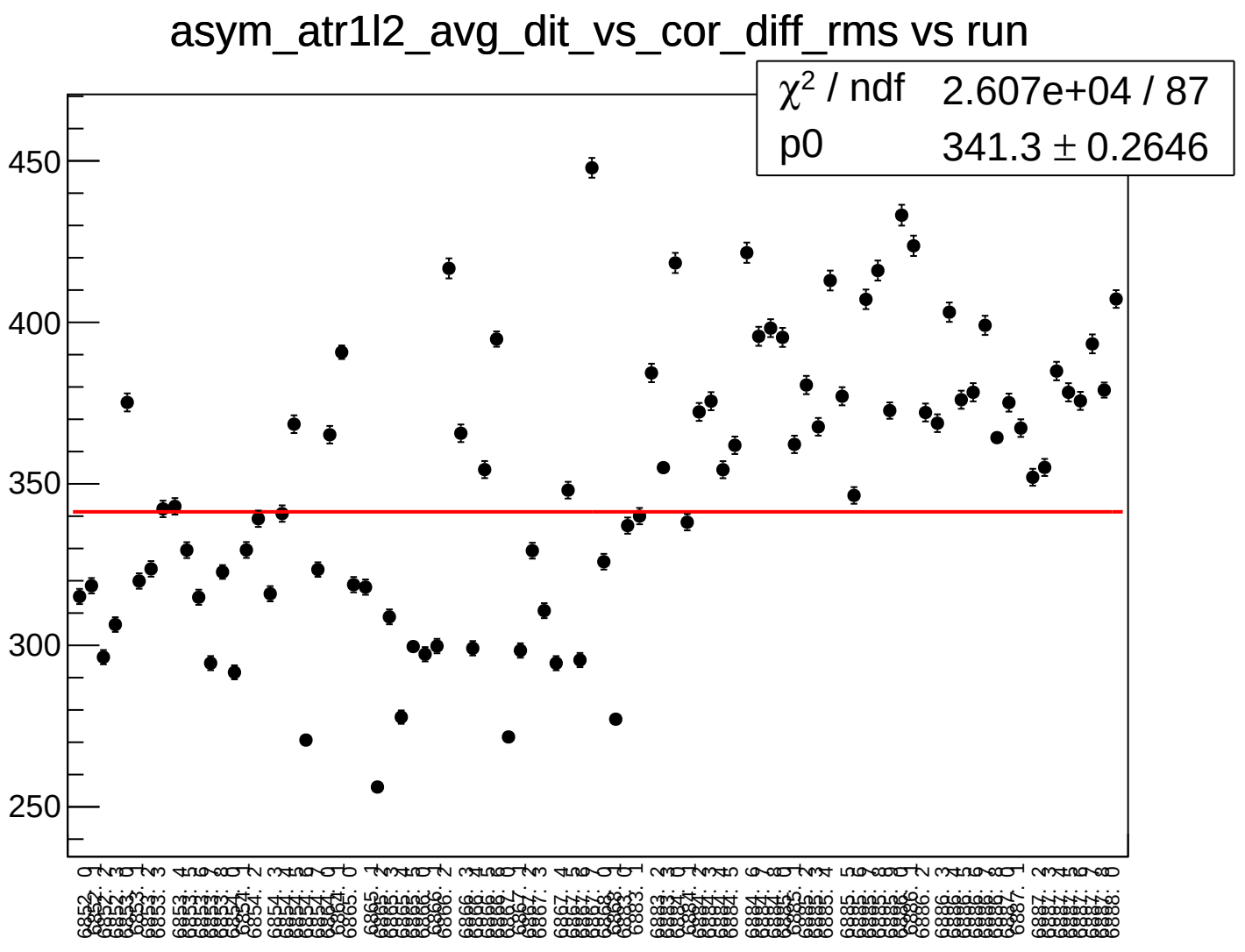

asym_atr1l2_avg_rms vs run
χ² / ndf 3.686e+04 / 87
p0 4939 ± 3.84
6500
6000
5500
5000
4500
4000

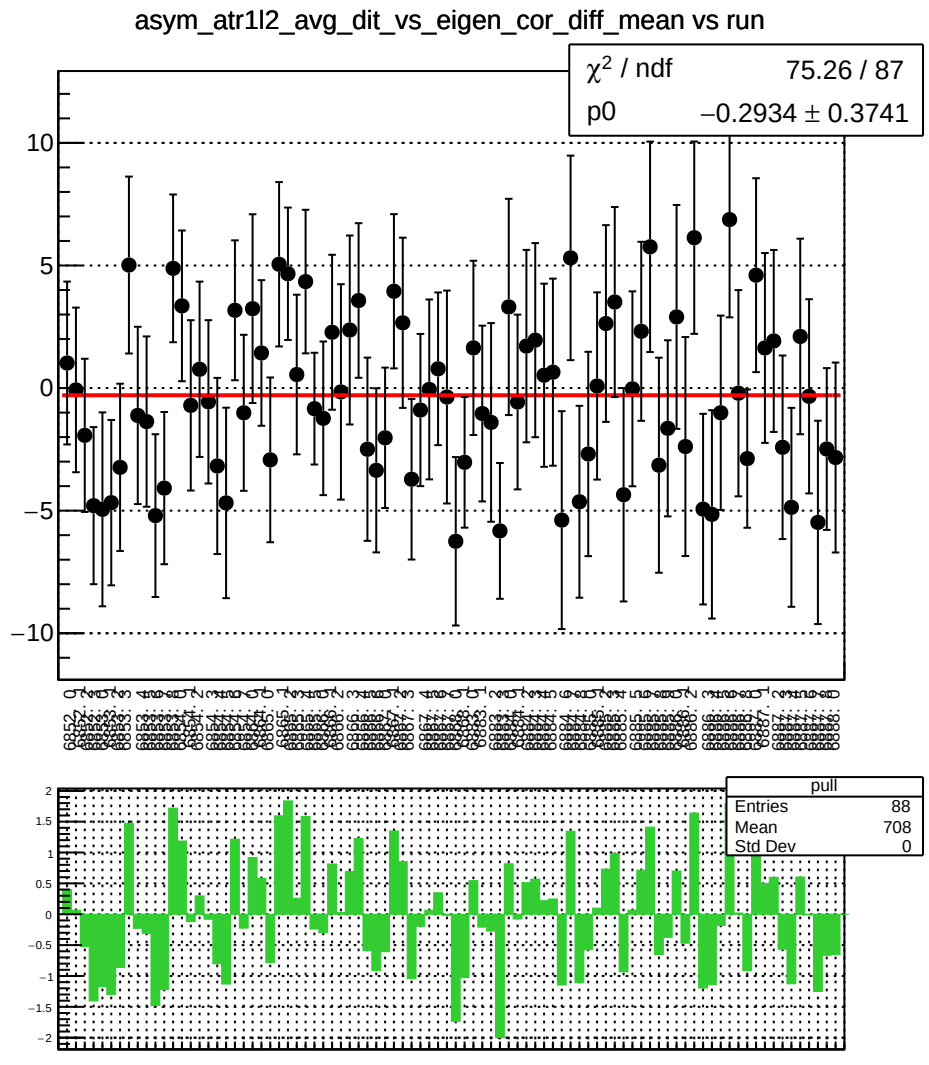

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.27 / 87
p0 −1.401e−13 ± 1.453e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 9.048
Std Dev 19.45
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.05076
Std Dev 0.9596
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

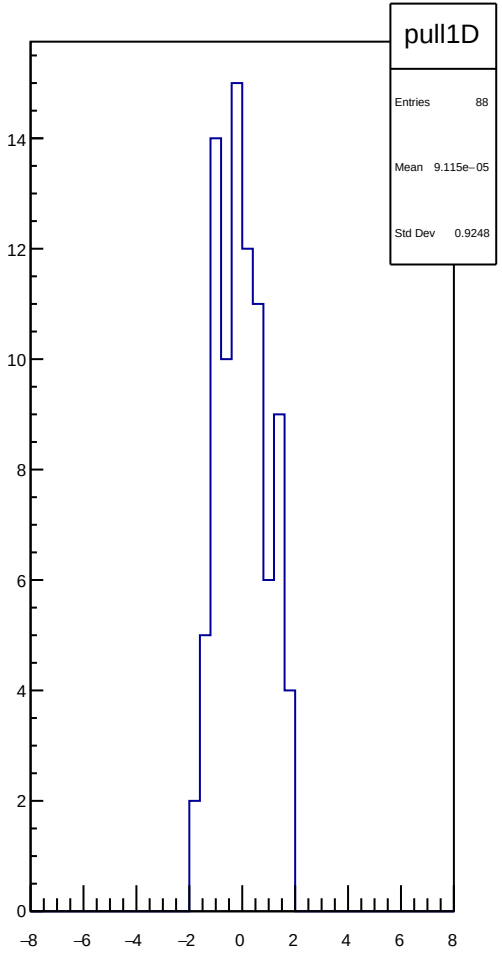

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.007e+06 / 87
p0 8.5e−11 ± 1.028e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

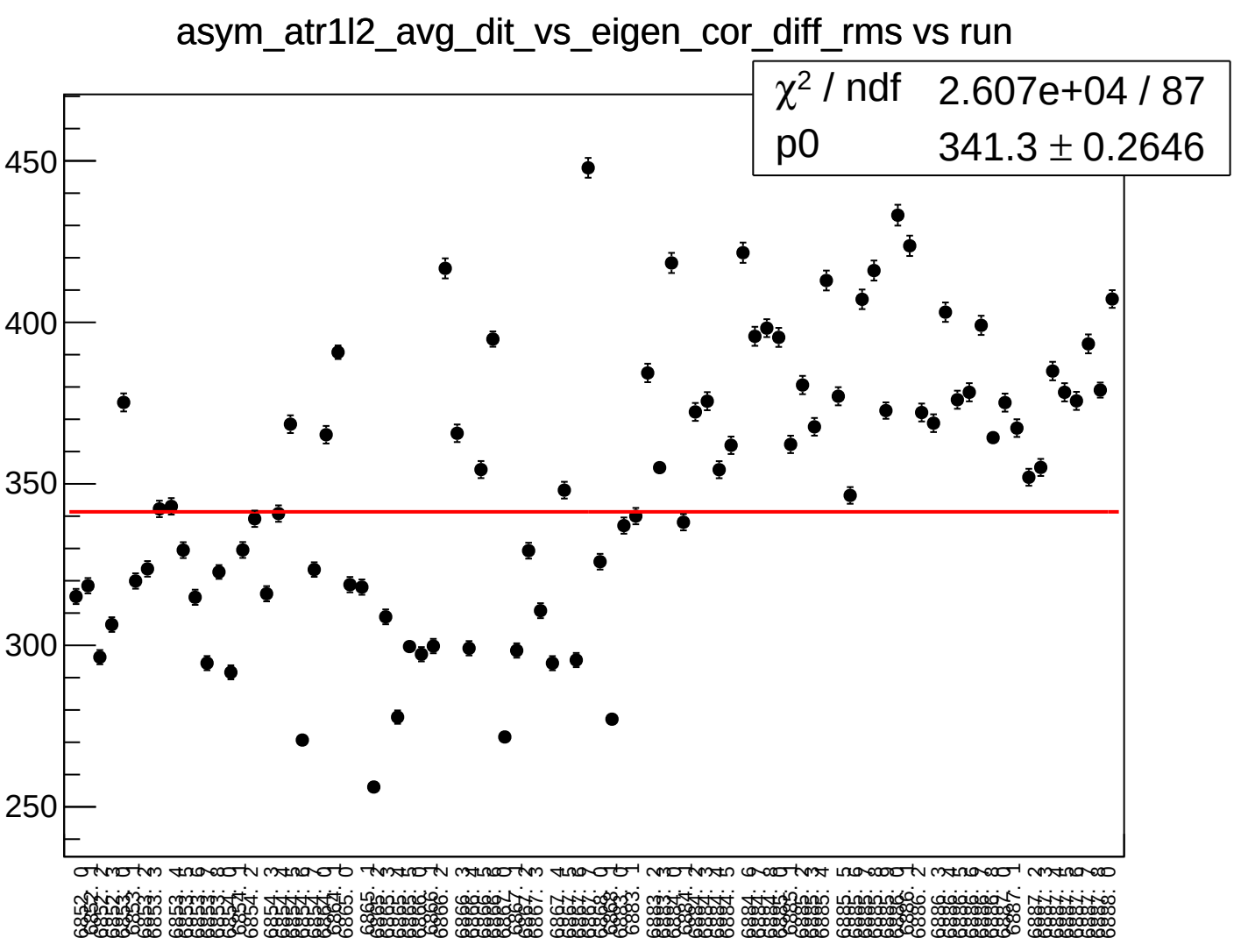

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.26 / 87
p0 −0.2934 ± 0.3741
pull
Entries 88
Mean 708
Std Dev 0

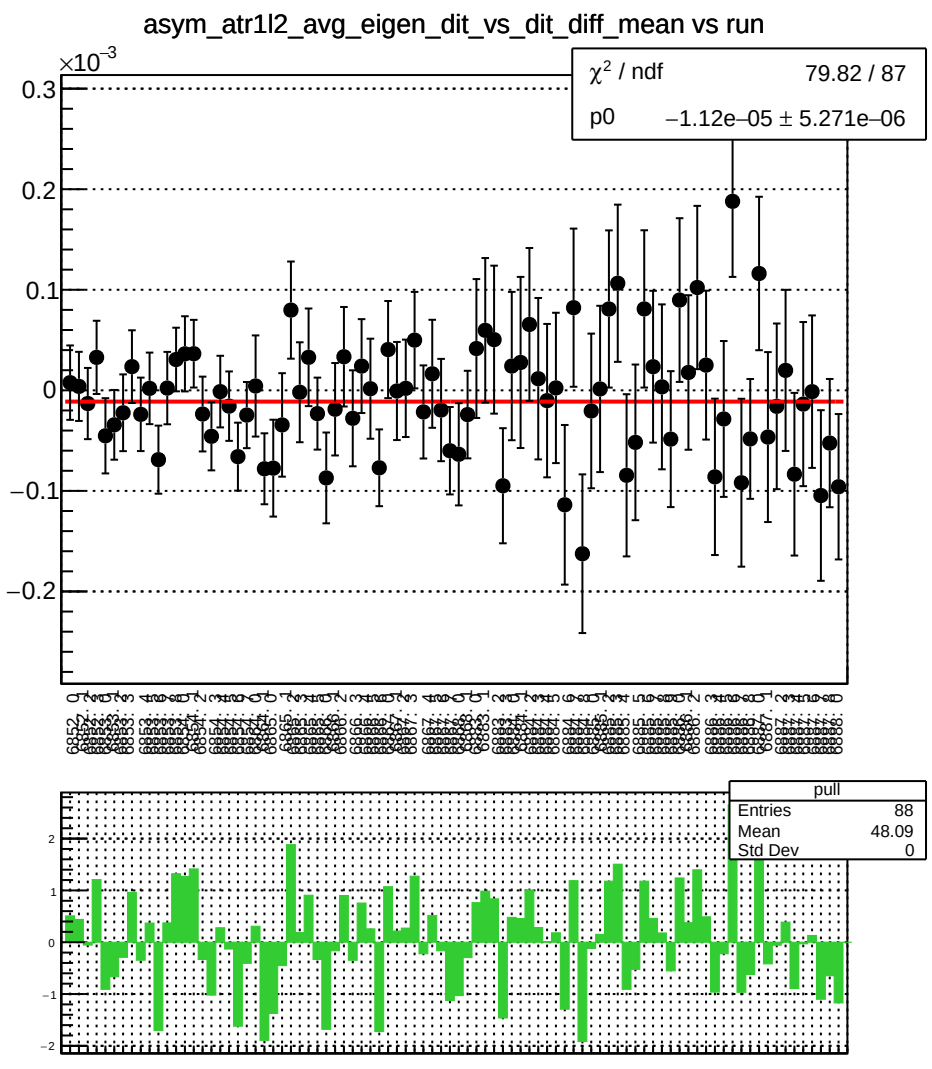

pull1D
Entries 88
Mean 9.115e−05
Std Dev 0.9248

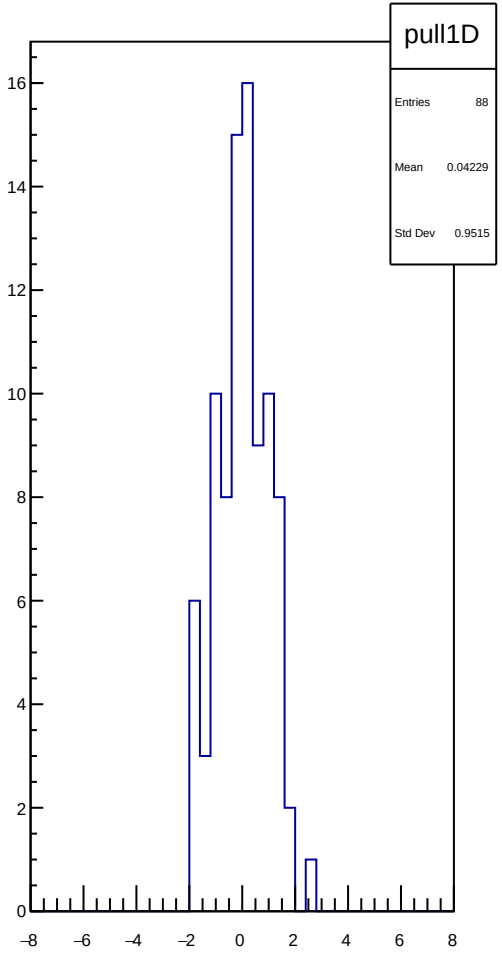

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.607e+04 / 87
p0 341.3 ± 0.2646
450
400
350
300
250

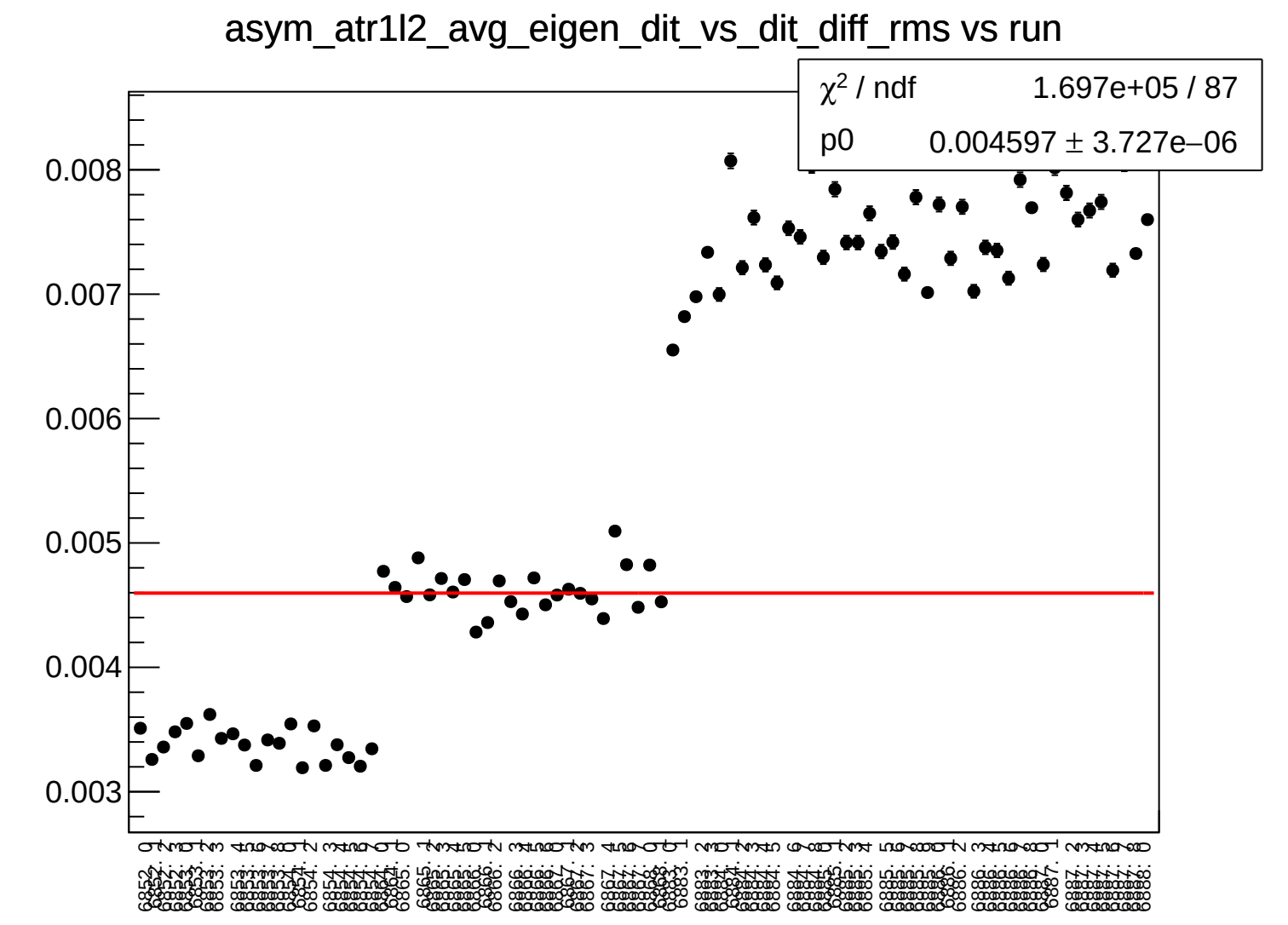

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.26 / 87
p0 −0.2934 ± 0.3741
pull
Entries 88
Mean 708
Std Dev 0

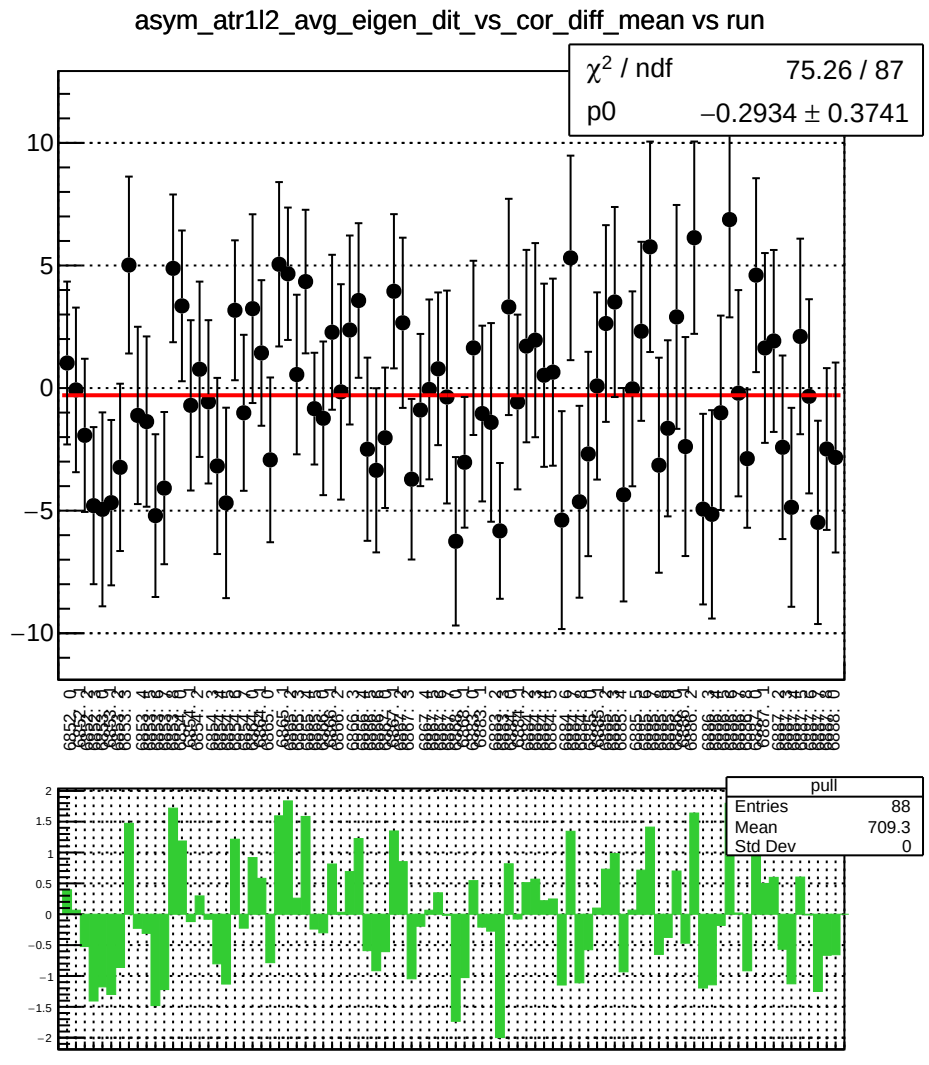

pull1D
Entries 88
Mean 9.115e−05
Std Dev 0.9248

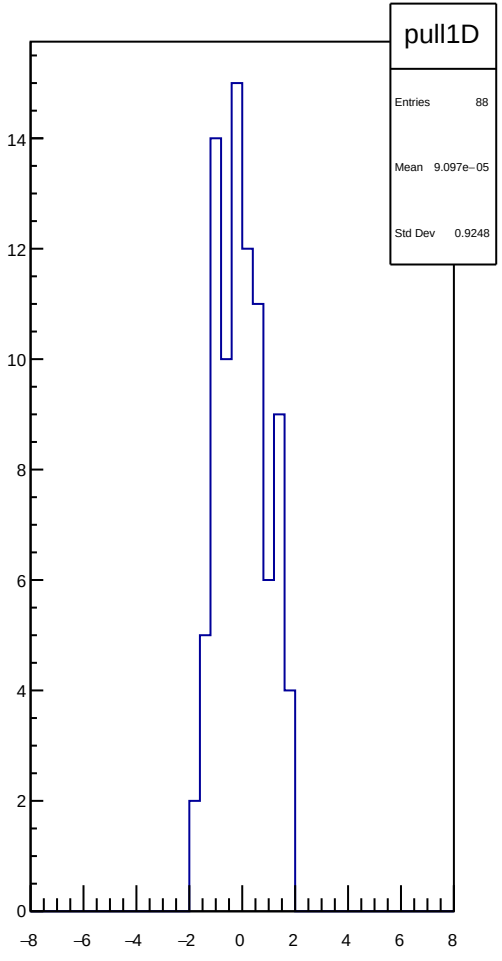

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.607e+04 / 87
p0 341.3 ± 0.2646
450
400
350
300
250

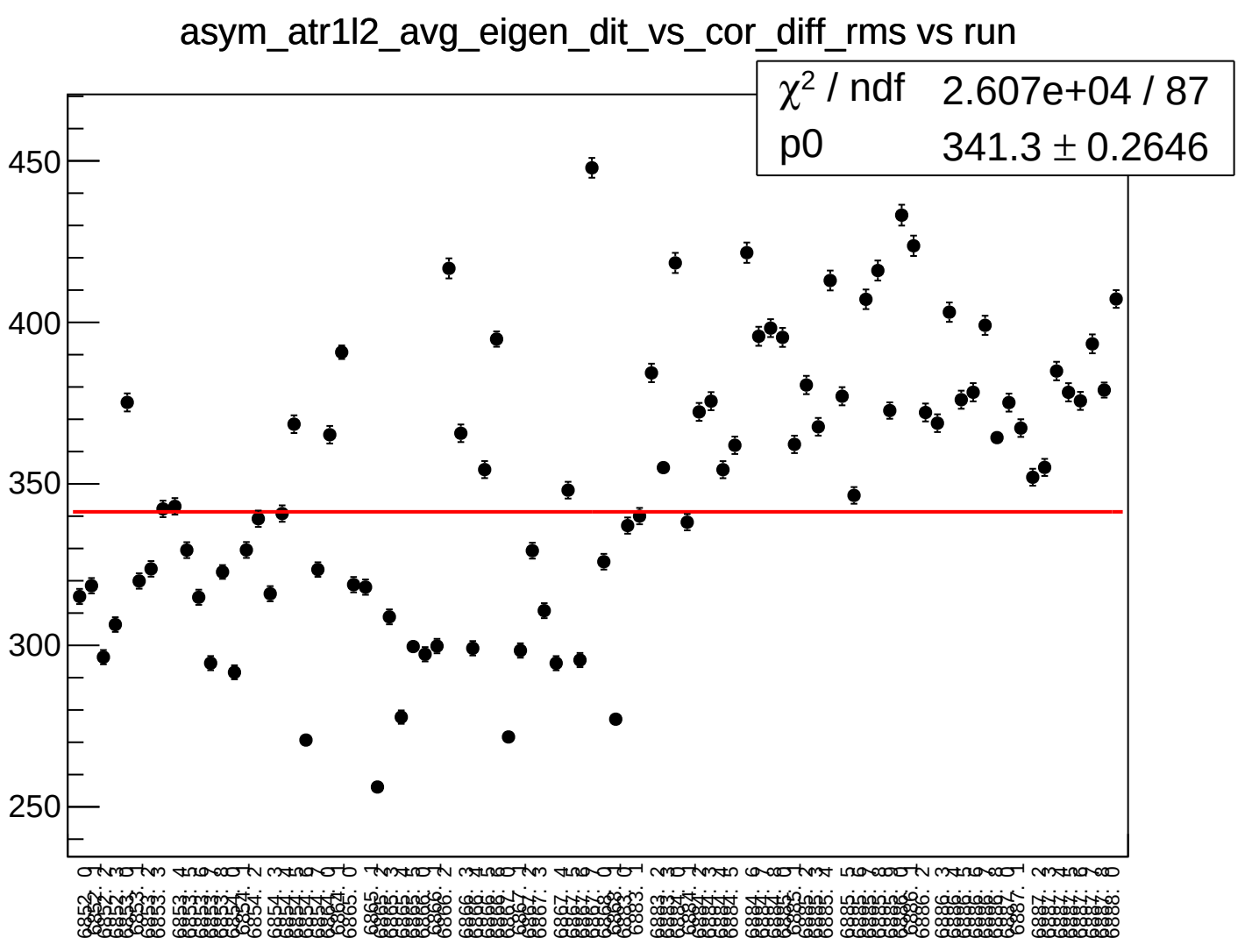

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.82 / 87
p0 −1.12e−05 ± 5.271e−06
pull
Entries 88
Mean 48.09
Std Dev 0

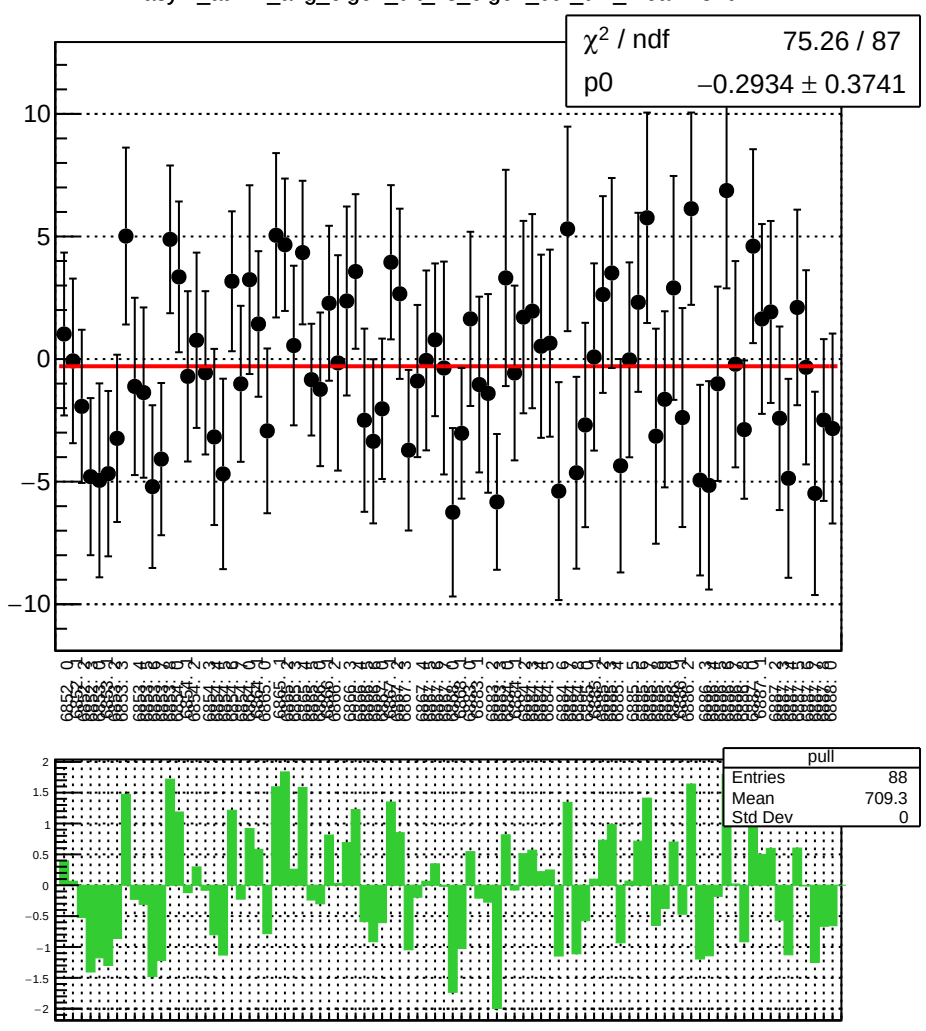

pull1D
Entries 88
Mean 0.04229
Std Dev 0.9515

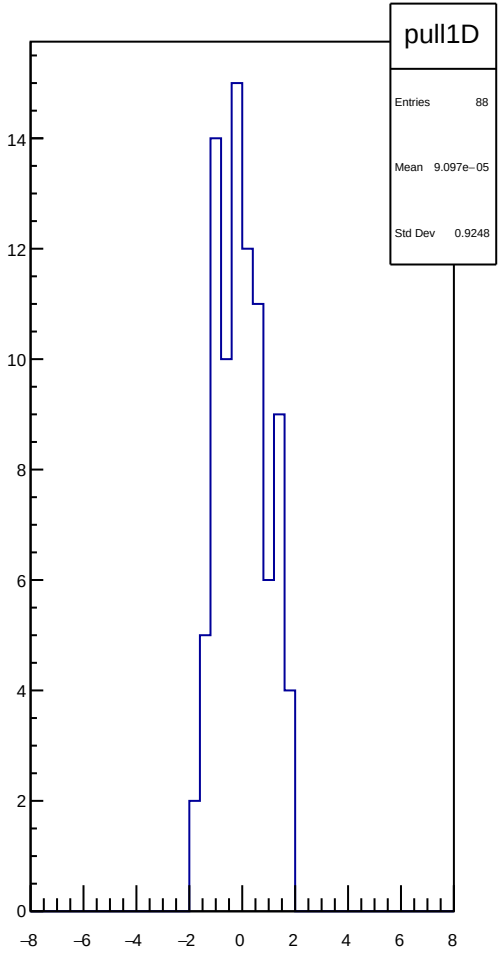

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.697e+05 / 87
p0 0.004597 ± 3.727e−06
0.008
0.007
0.006
0.005
0.004
0.003

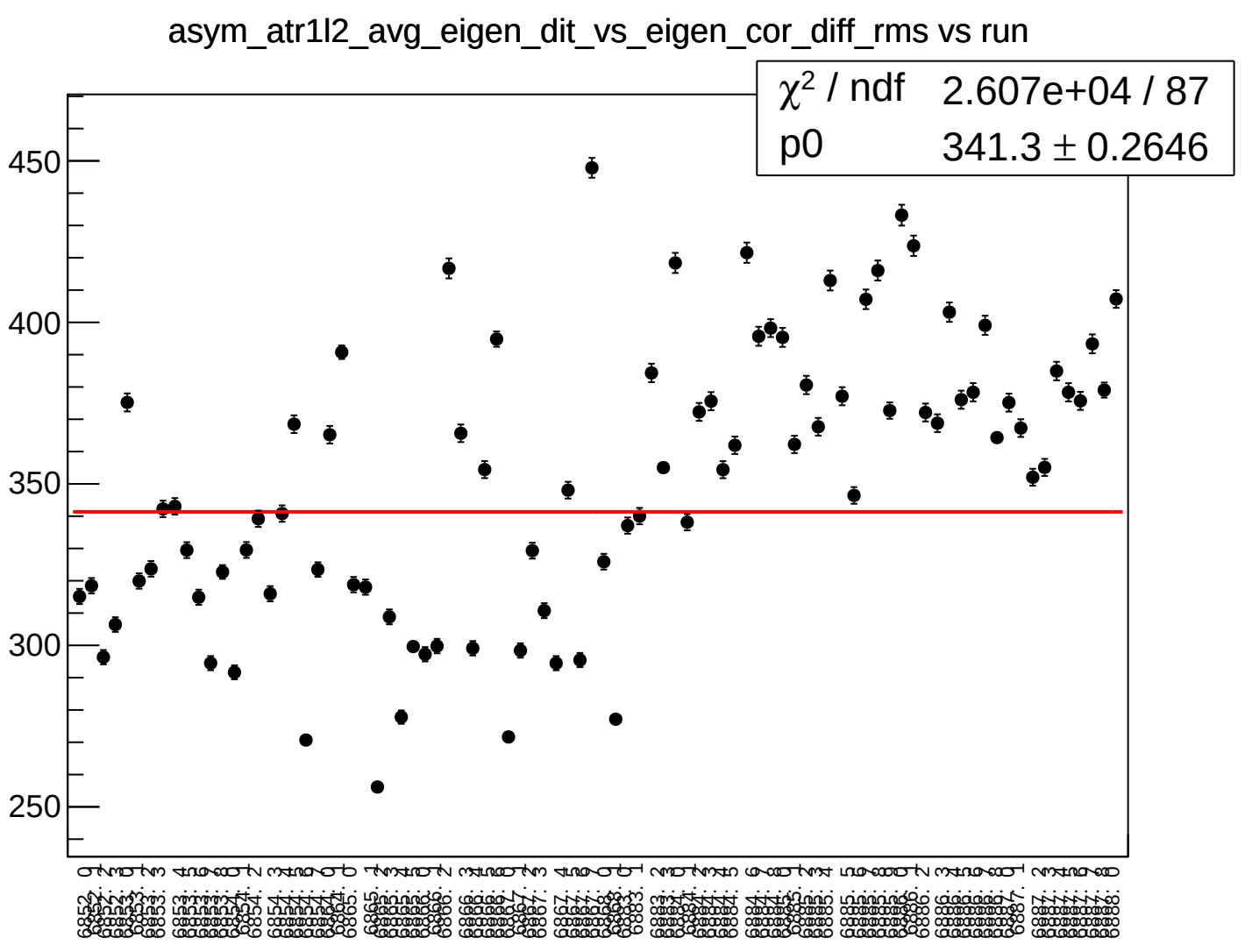

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.26 / 87
p0 −0.2934 ± 0.3741
pull
Entries 88
Mean 709.3
Std Dev 0

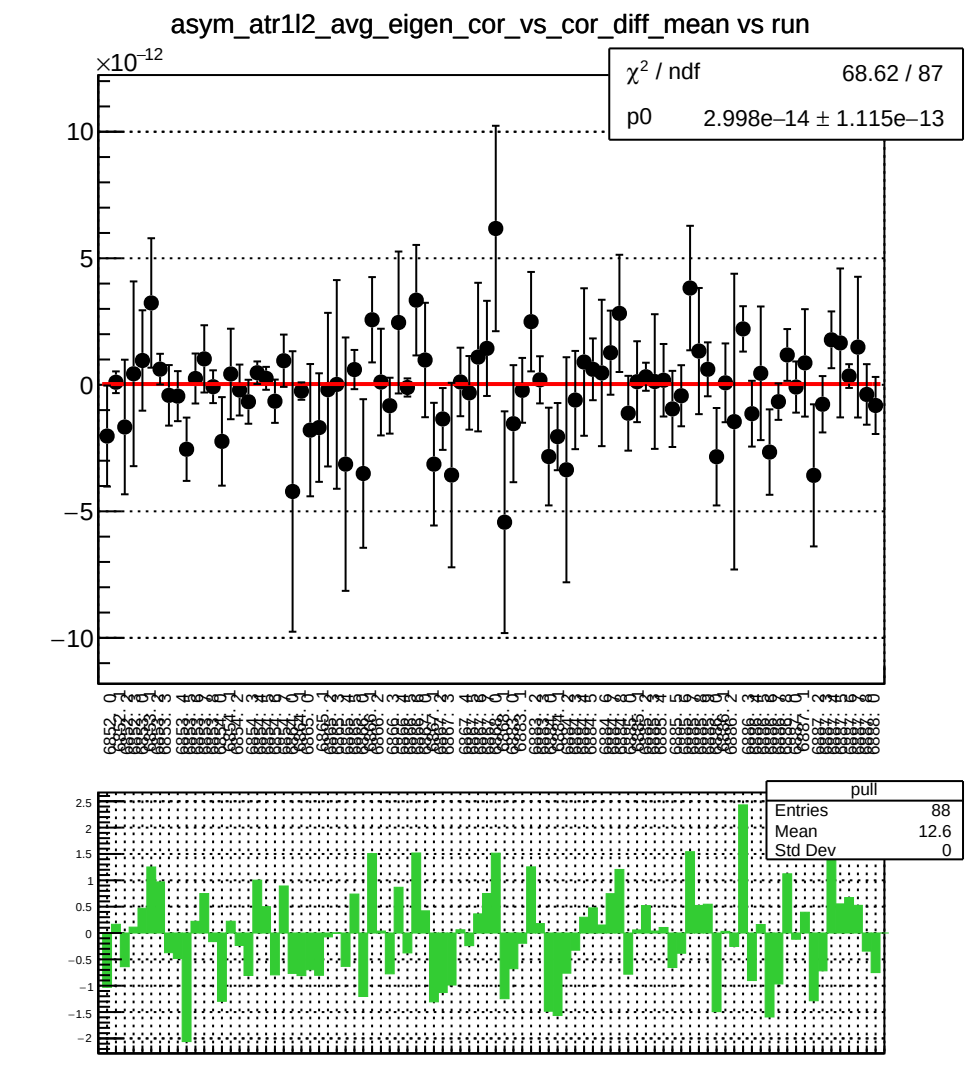

pull1D
Entries 88
Mean 9.097e−05
Std Dev 0.9248

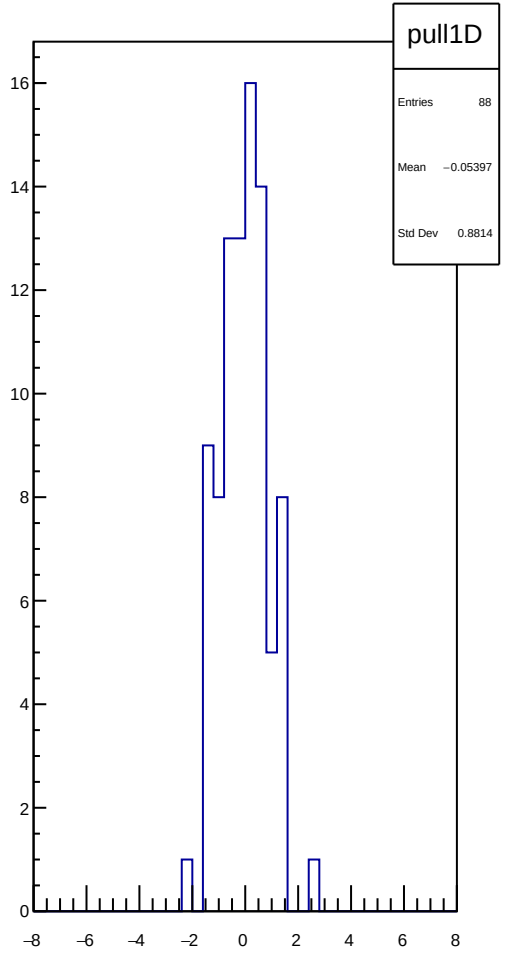

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.607e+04 / 87
p0 341.3 ± 0.2646
450
400
350
300
250

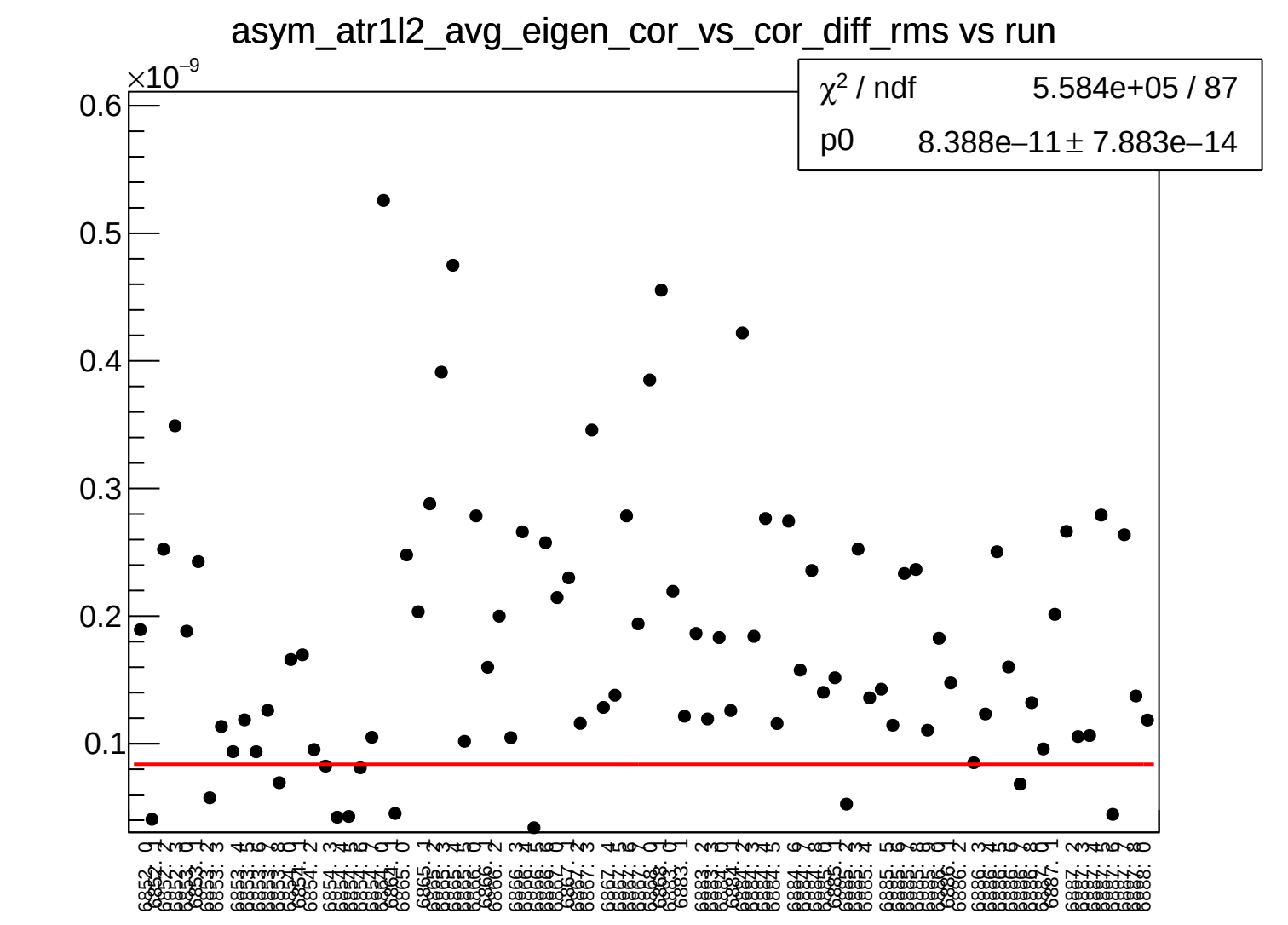

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.26 / 87
p0 −0.2934 ± 0.3741
pull
Entries 88
Mean 709.3
Std Dev 0

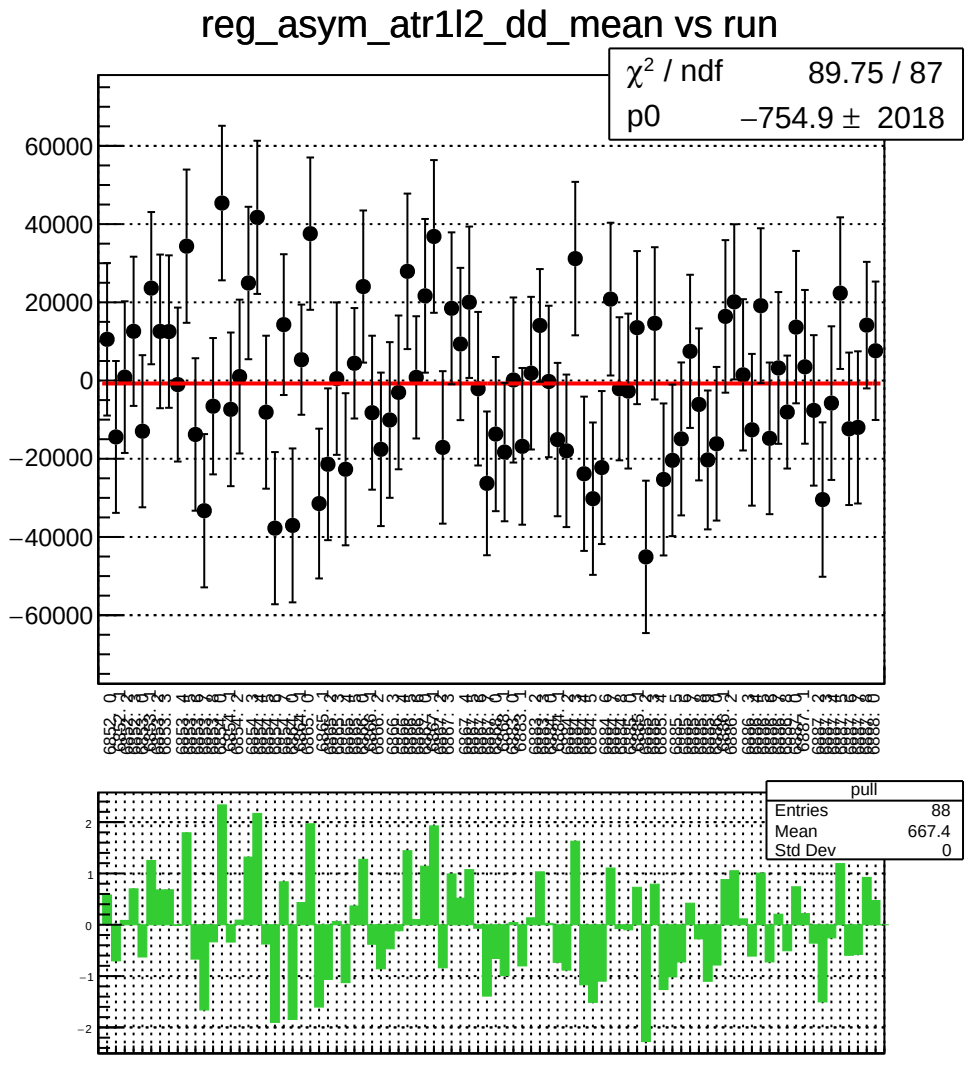

pull1D
Entries 88
Mean 9.097e−05
Std Dev 0.9248

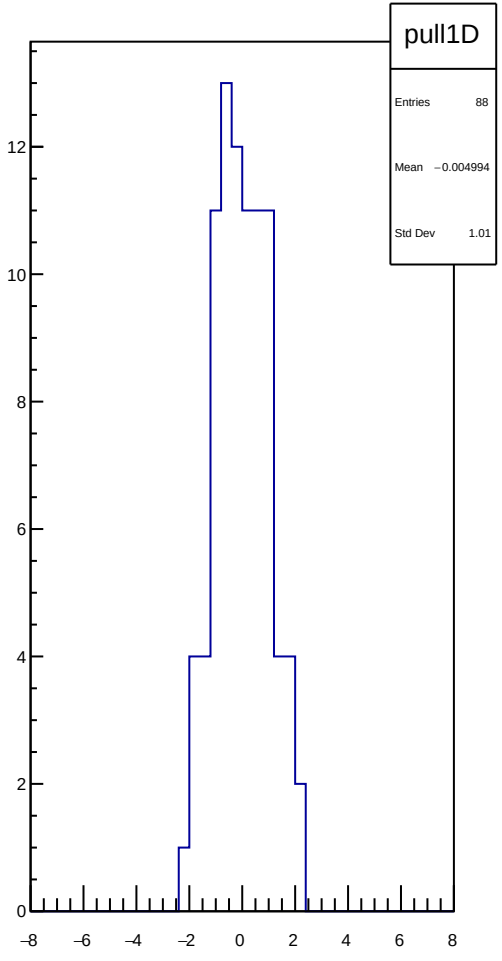

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.607e+04 / 87
p0 341.3 ± 0.2646
450
400
350
300
250

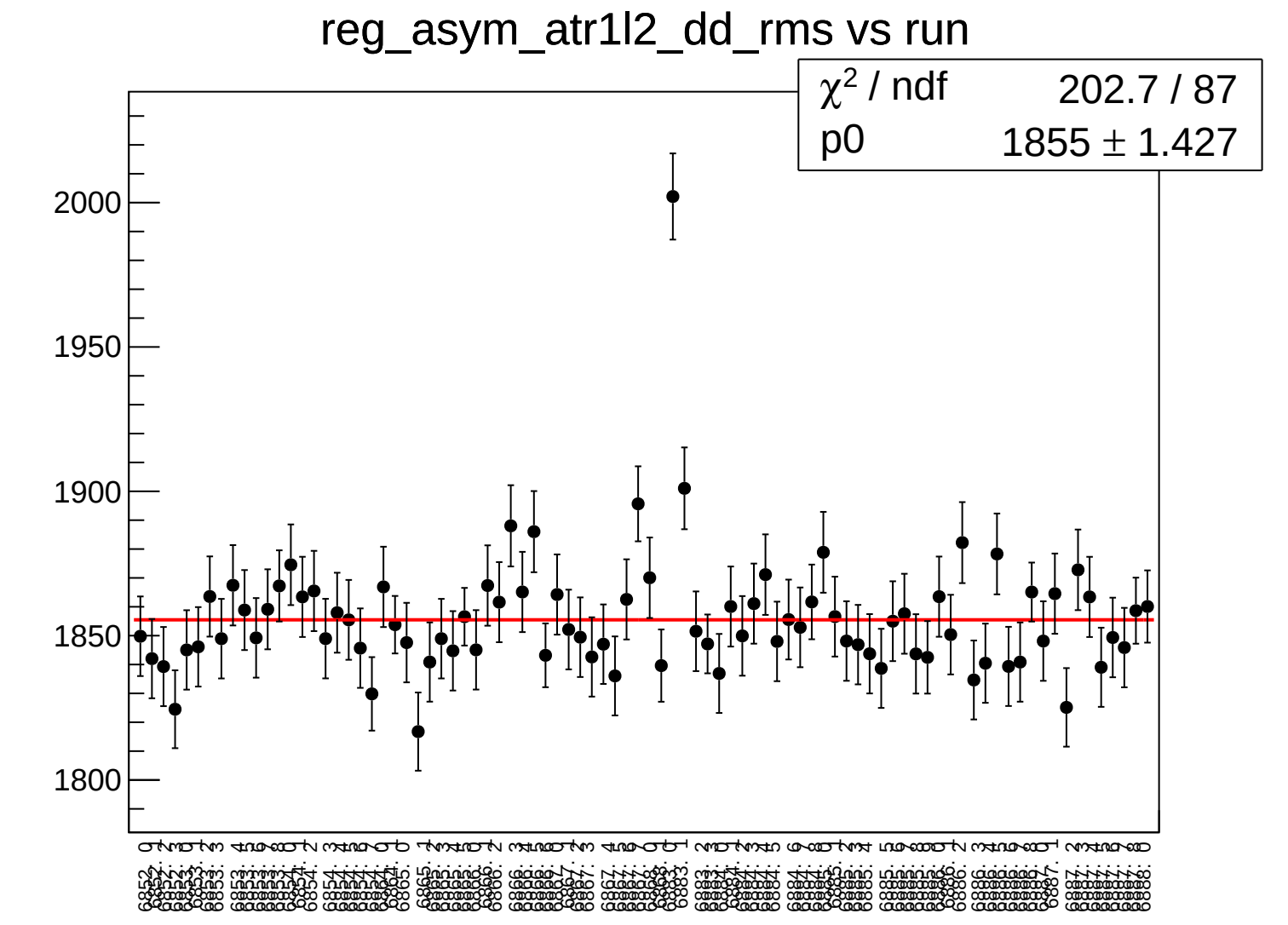

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.62 / 87
p0 2.998e−14 ± 1.115e−13
10
5
0
−5
−10
pull
Entries 88
Mean 12.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

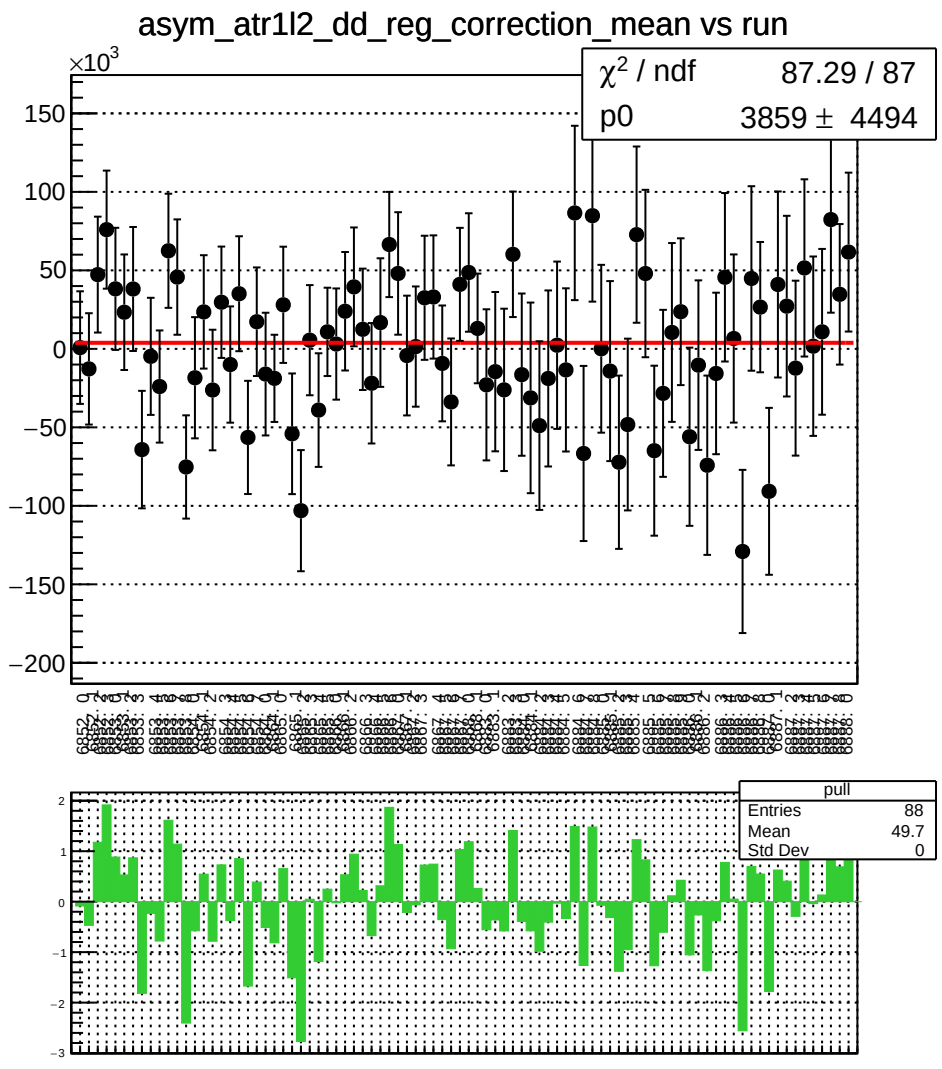

pull1D
Entries 88
Mean −0.05397
Std Dev 0.8814
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

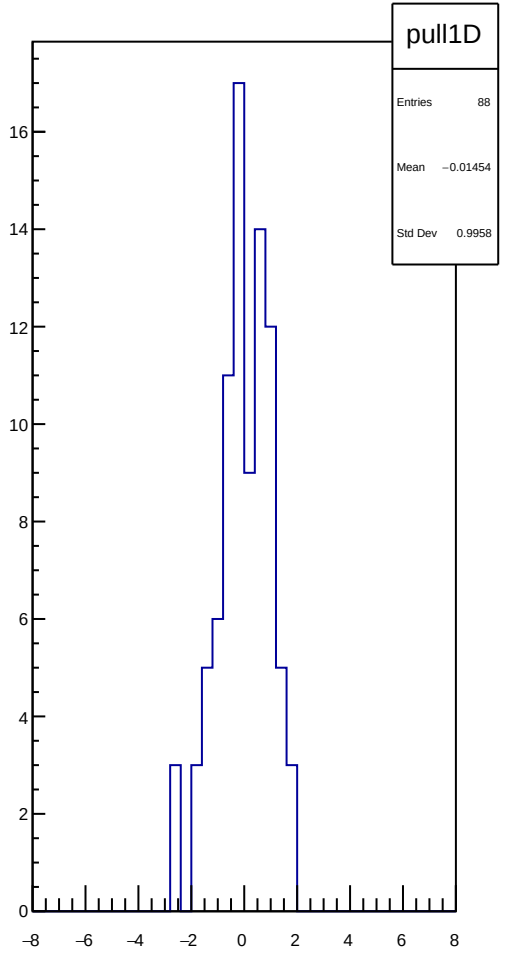

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.584e+05 / 87
p0 8.388e−11 ± 7.883e−14
0.6
0.5
0.4
0.3
0.2
0.1

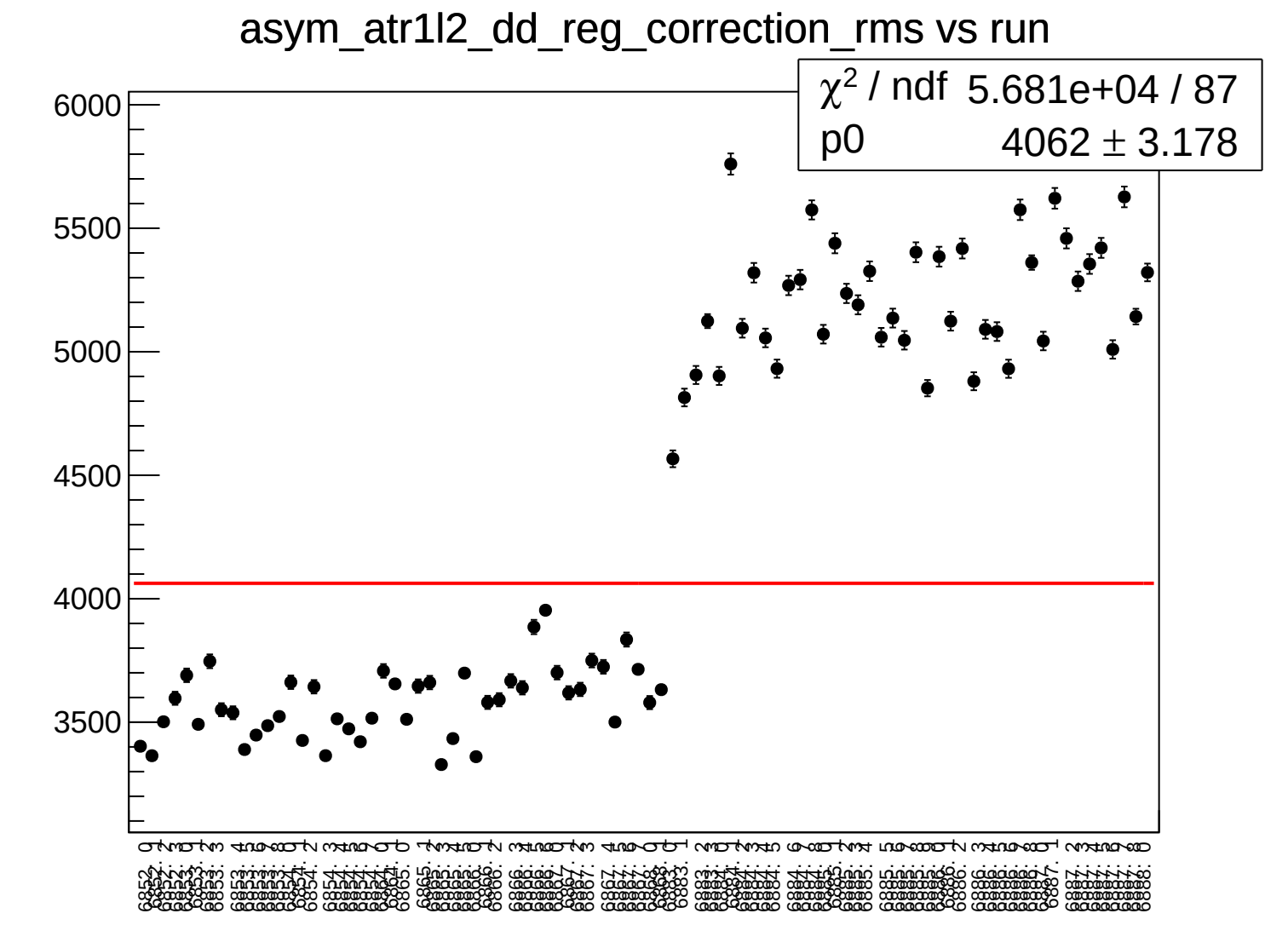

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 89.75 / 87
p0 −754.9 ± 2018
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 667.4
Std Dev 0
2
1
0
−1
−2

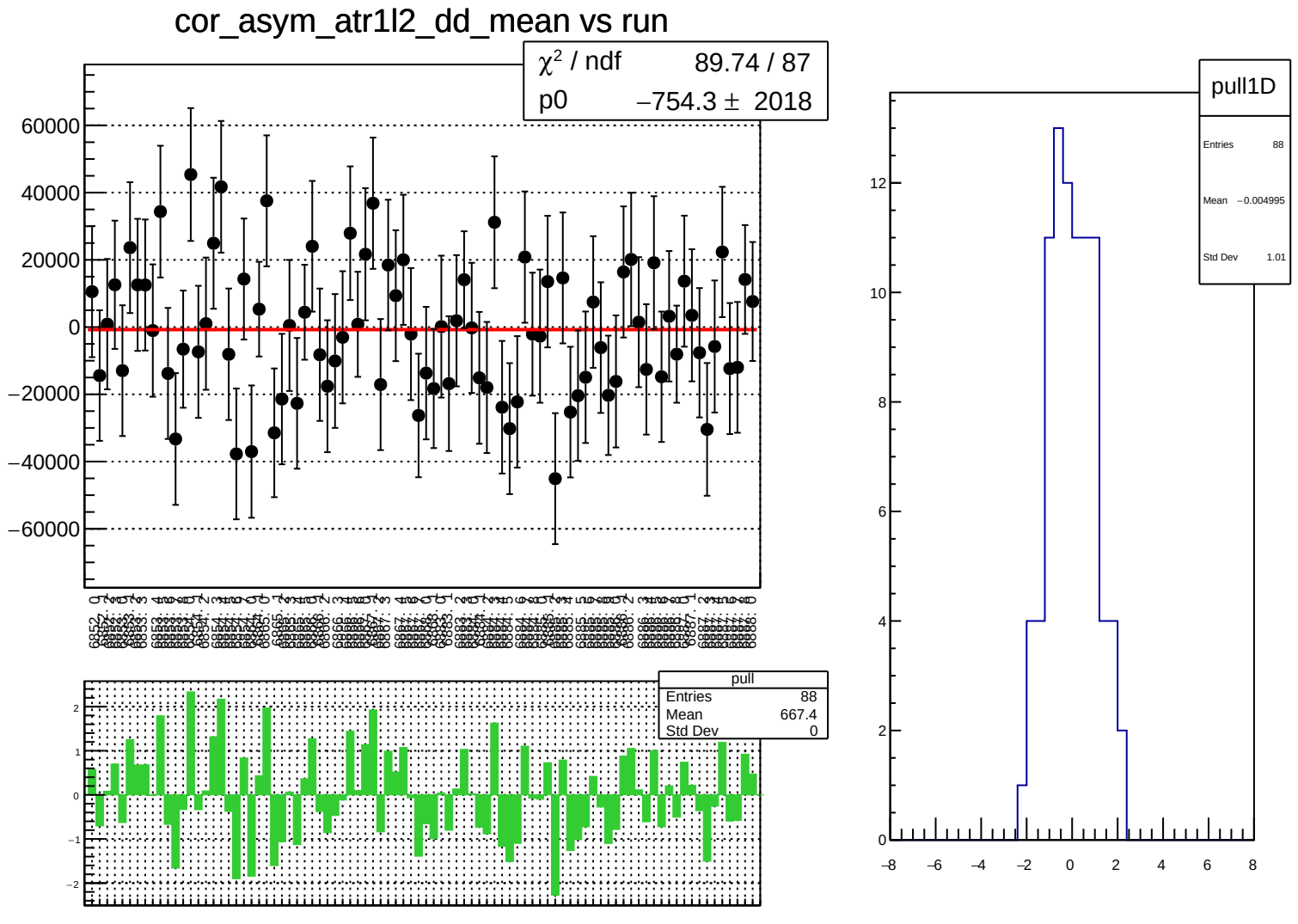

pull1D
Entries 88
Mean −0.004994
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

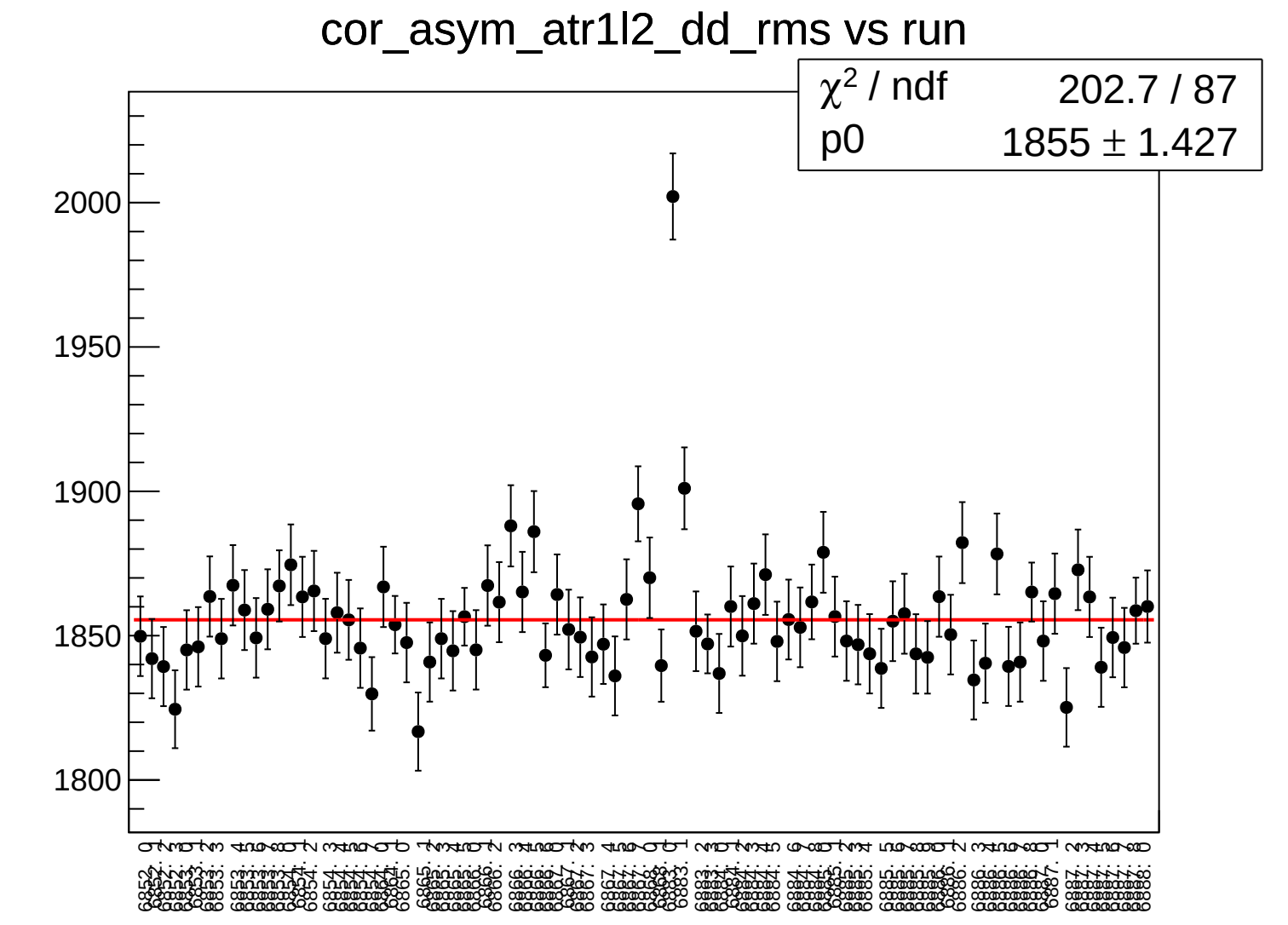

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 202.7 / 87
p0 1855 ± 1.427
2000
1950
1900
1850
1800

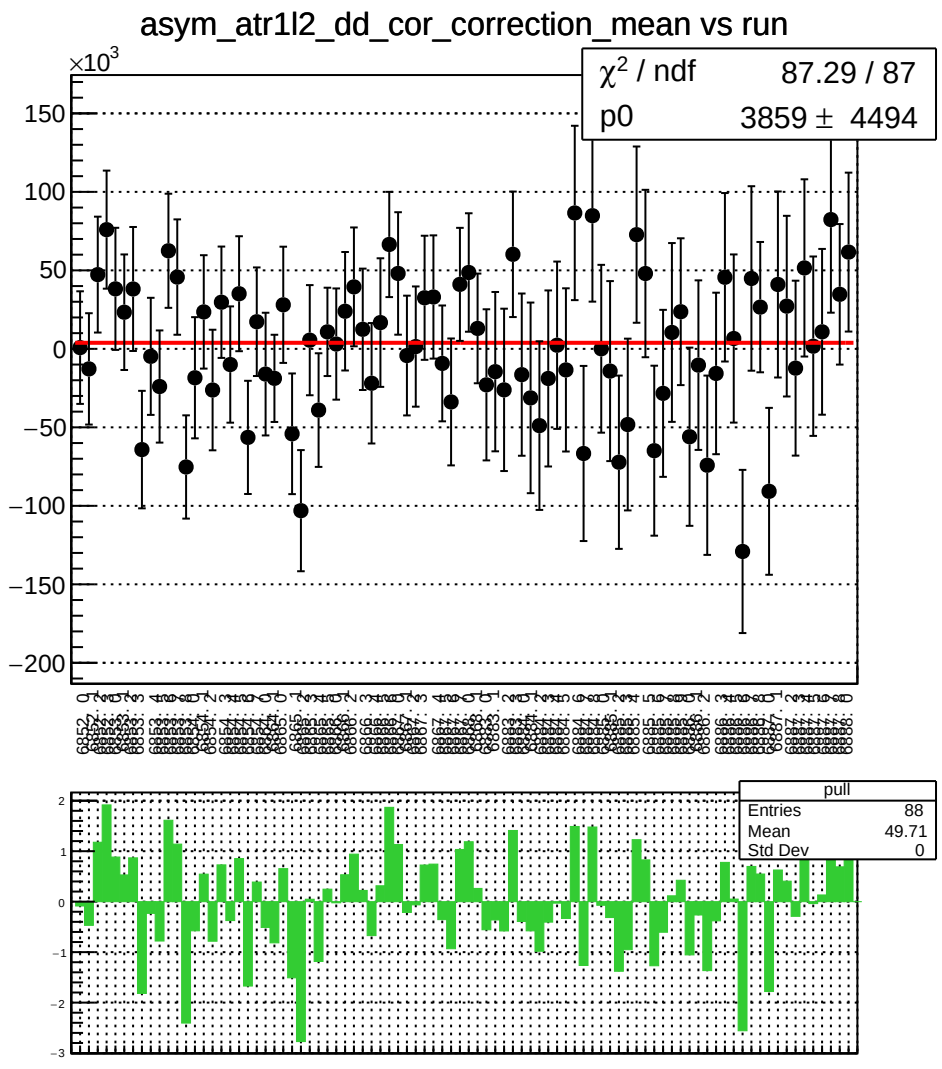

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 87.29 / 87
p0 3859 ± 4494
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 49.7
Std Dev 0
2
1
0
−1
−2
−3

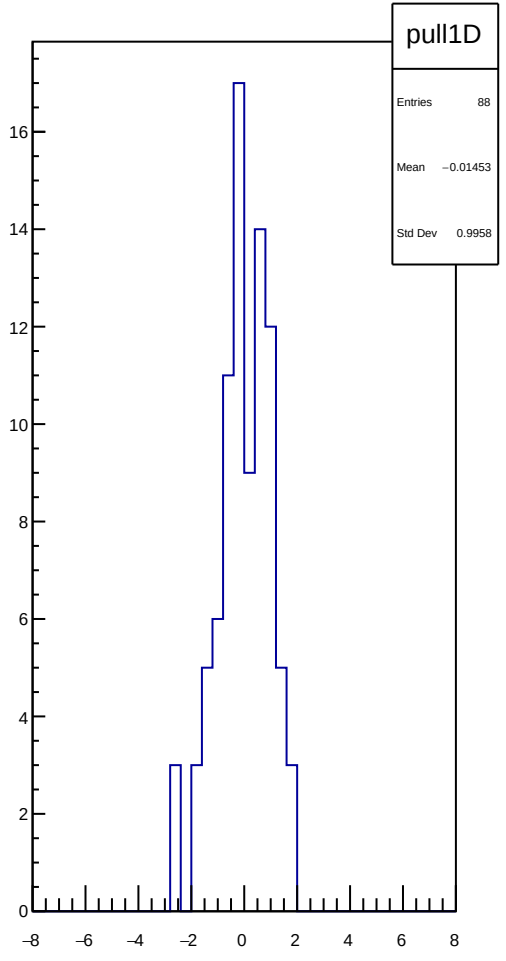

pull1D
Entries 88
Mean −0.01454
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 5.681e+04 / 87
p0 4062 ± 3.178
6000
5500
5000
4500
4000
3500


cor_asym_atr1l2_dd_mean vs run
χ² / ndf 89.74 / 87
p0 −754.3 ± 2018
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 667.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.004995
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr1l2_dd_rms vs run
χ² / ndf 202.7 / 87
p0 1855 ± 1.427
2000
1950
1900
1850
1800


asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 87.29 / 87
p0 3859 ± 4494
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 49.71
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean −0.01453
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
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−4
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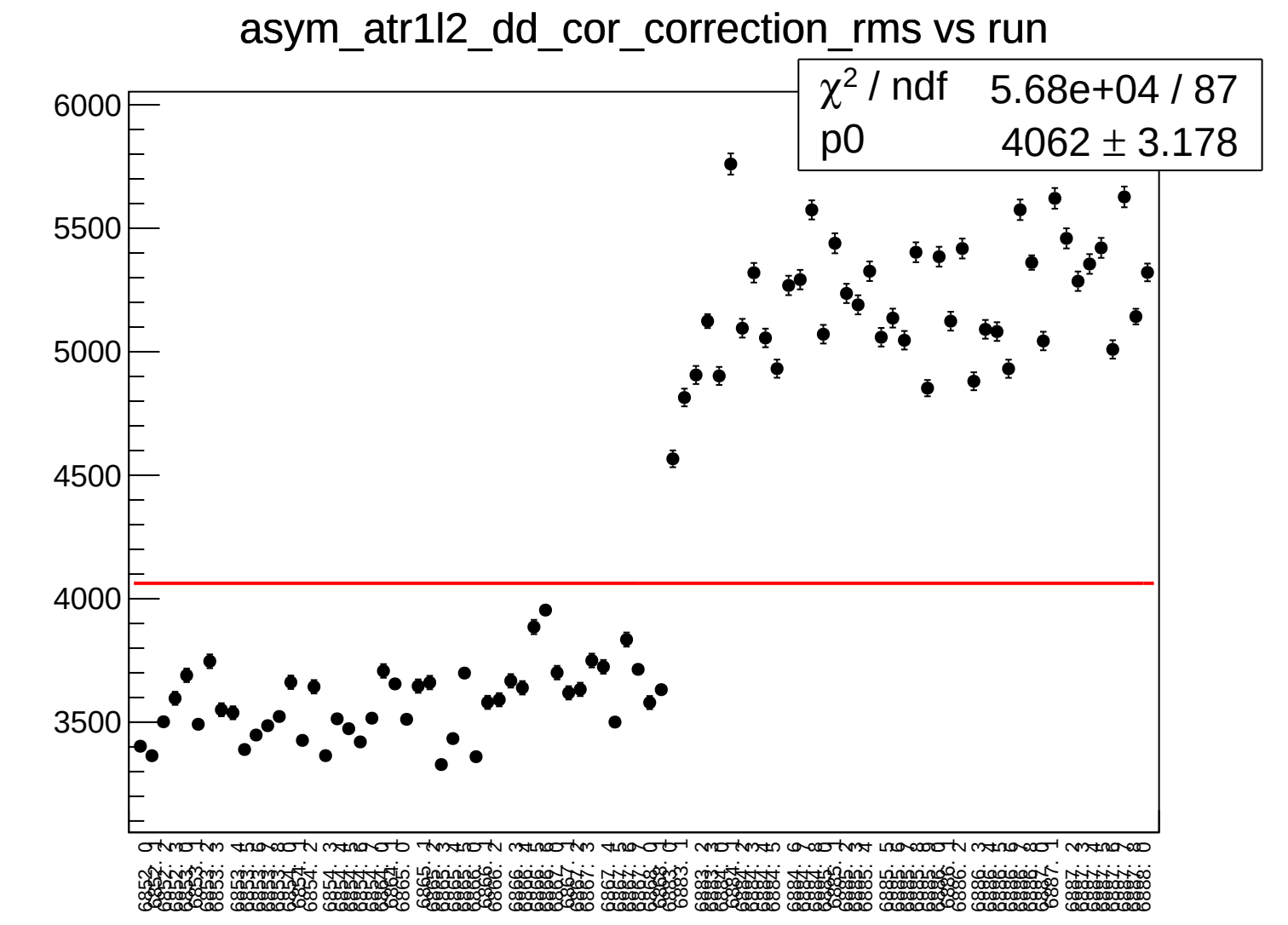
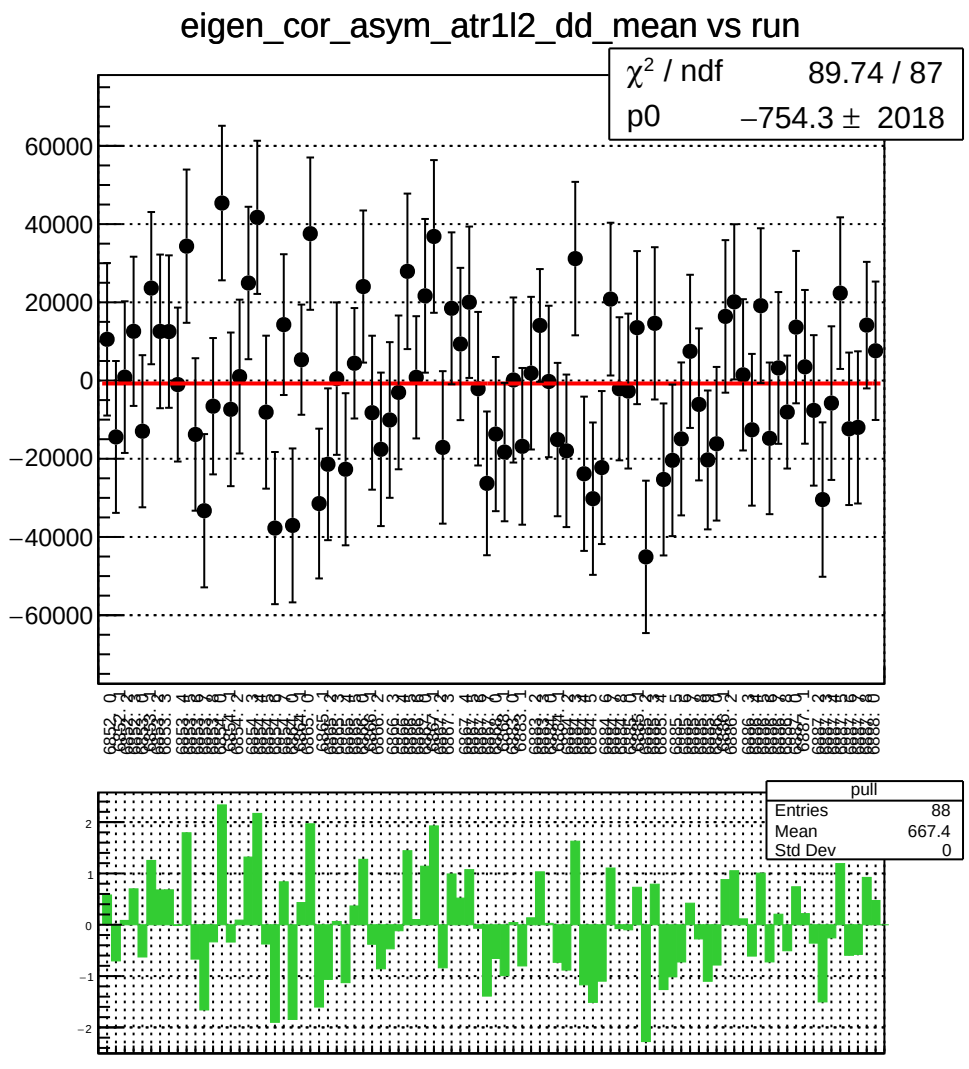
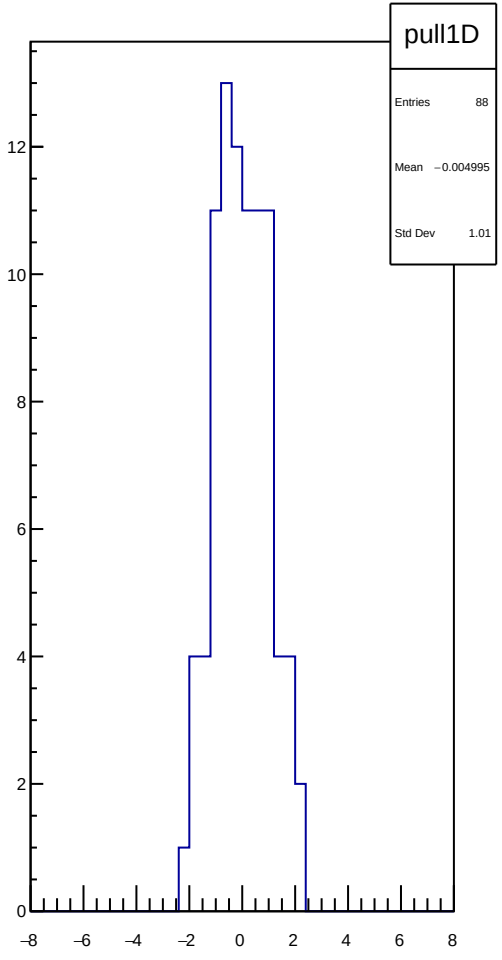
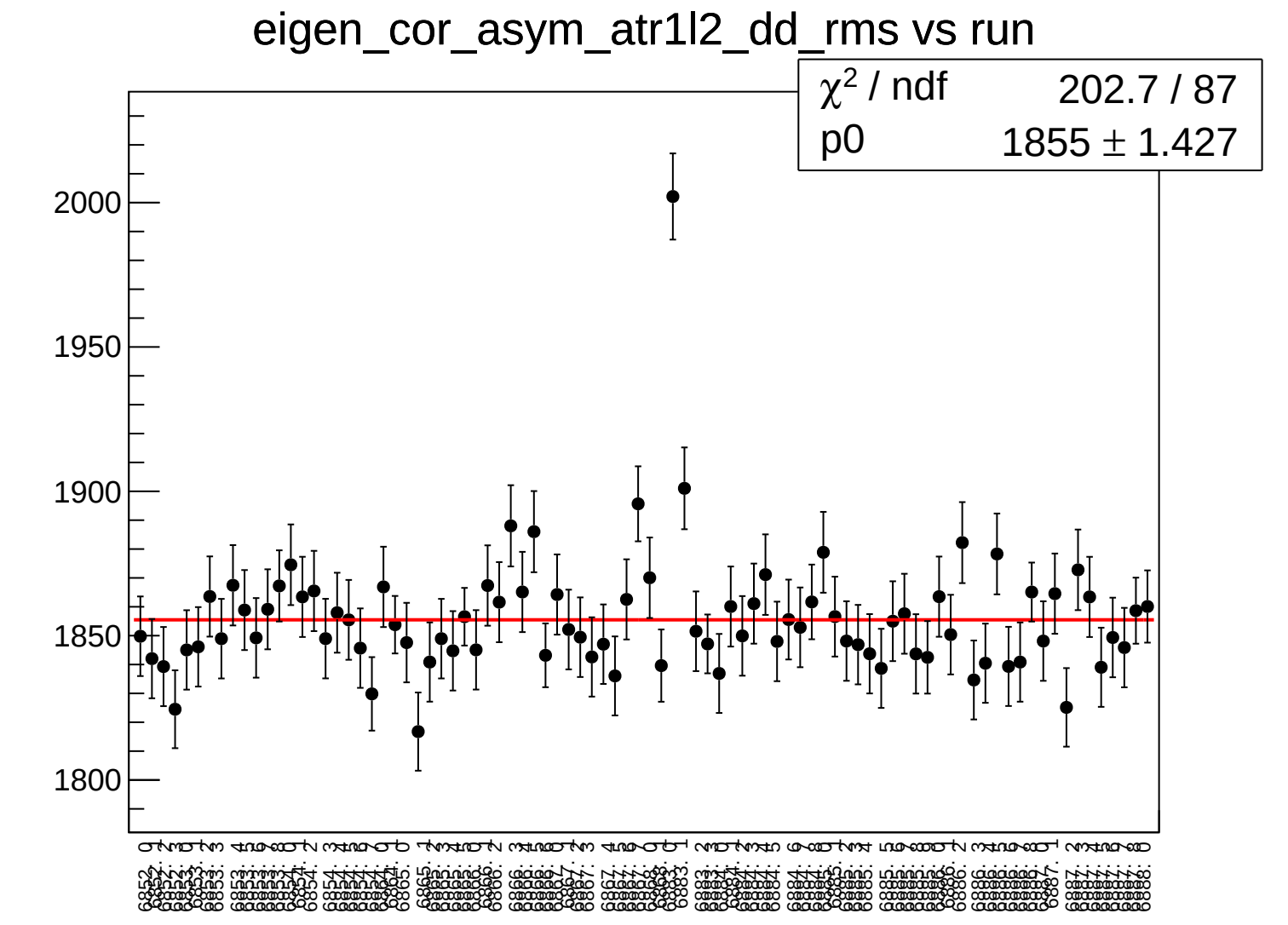
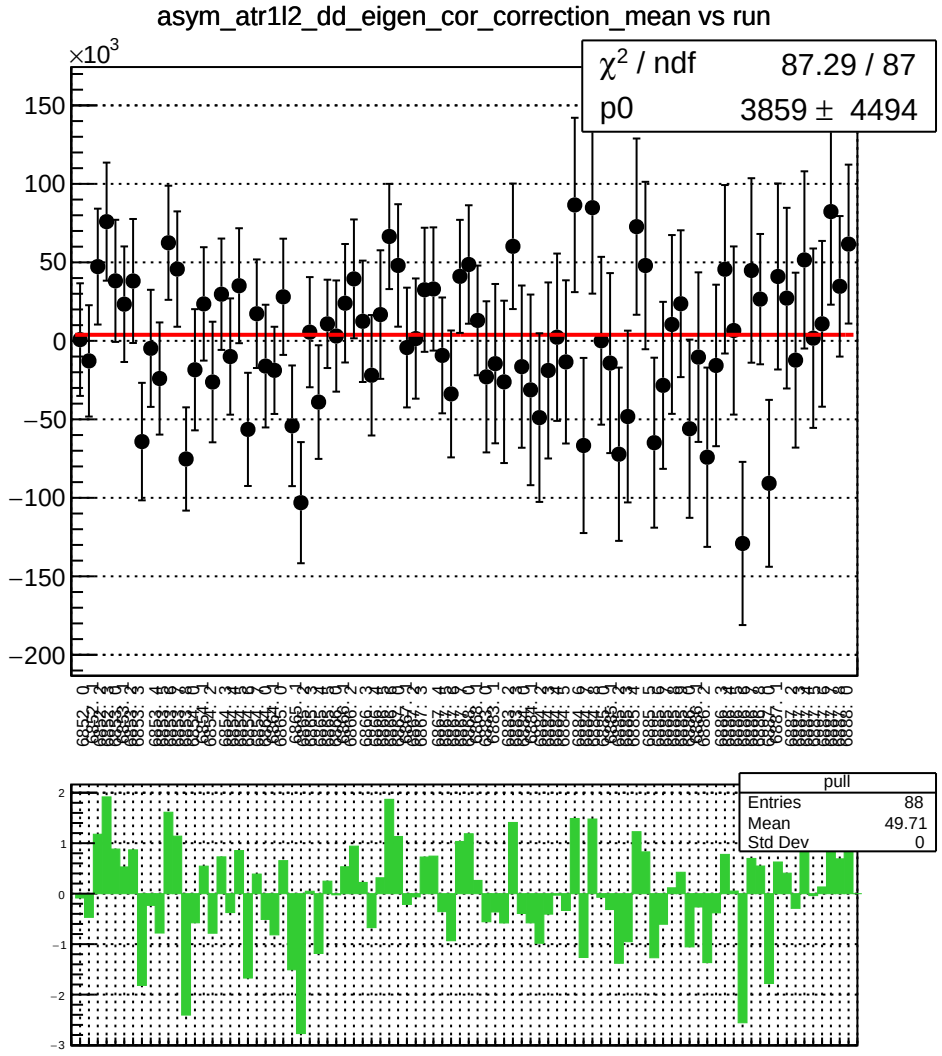
0
2
4
6
8

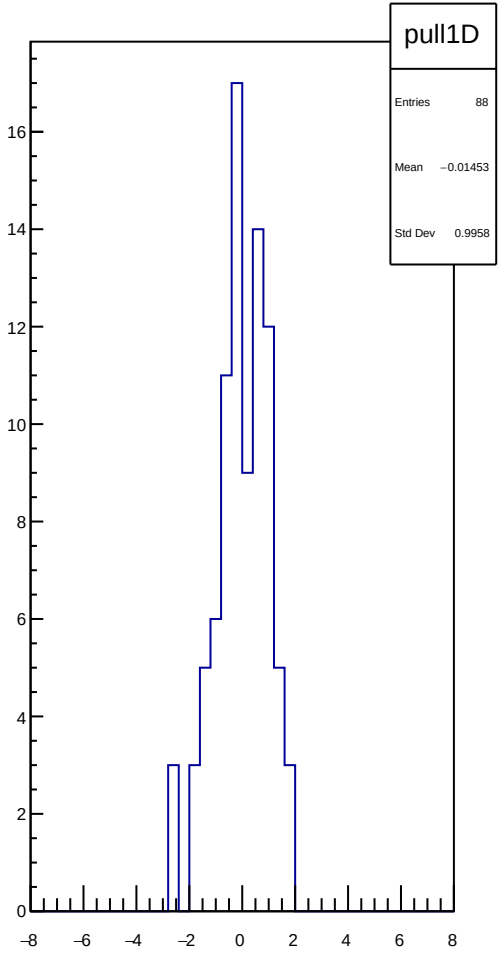

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 5.68e+04 / 87
p0 4062 ± 3.178
6000
5500
5000
4500
4000
3500

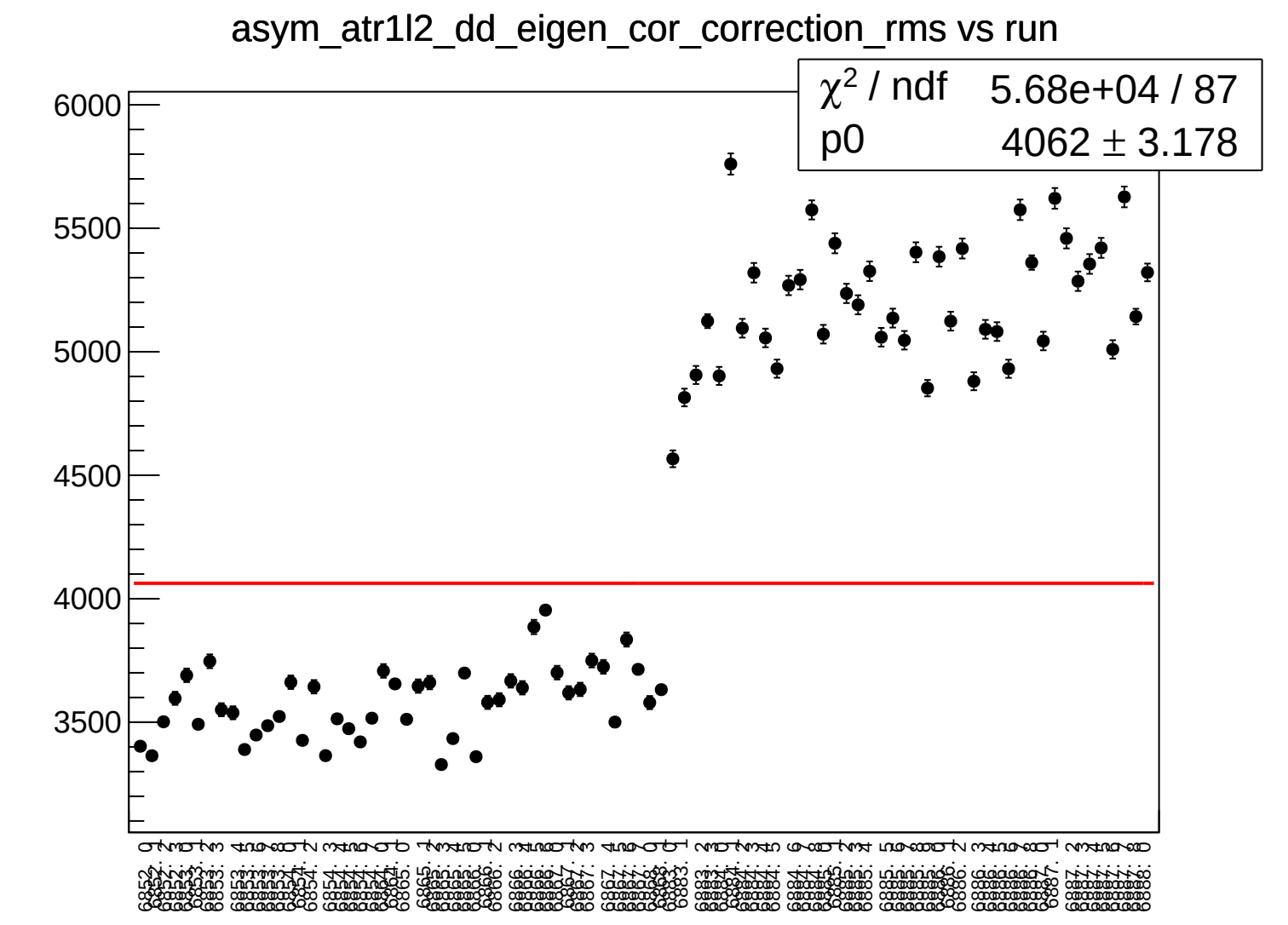

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 89.74 / 87
p0 −754.3 ± 2018
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 667.4
Std Dev 0
2
1
0
−1
−2

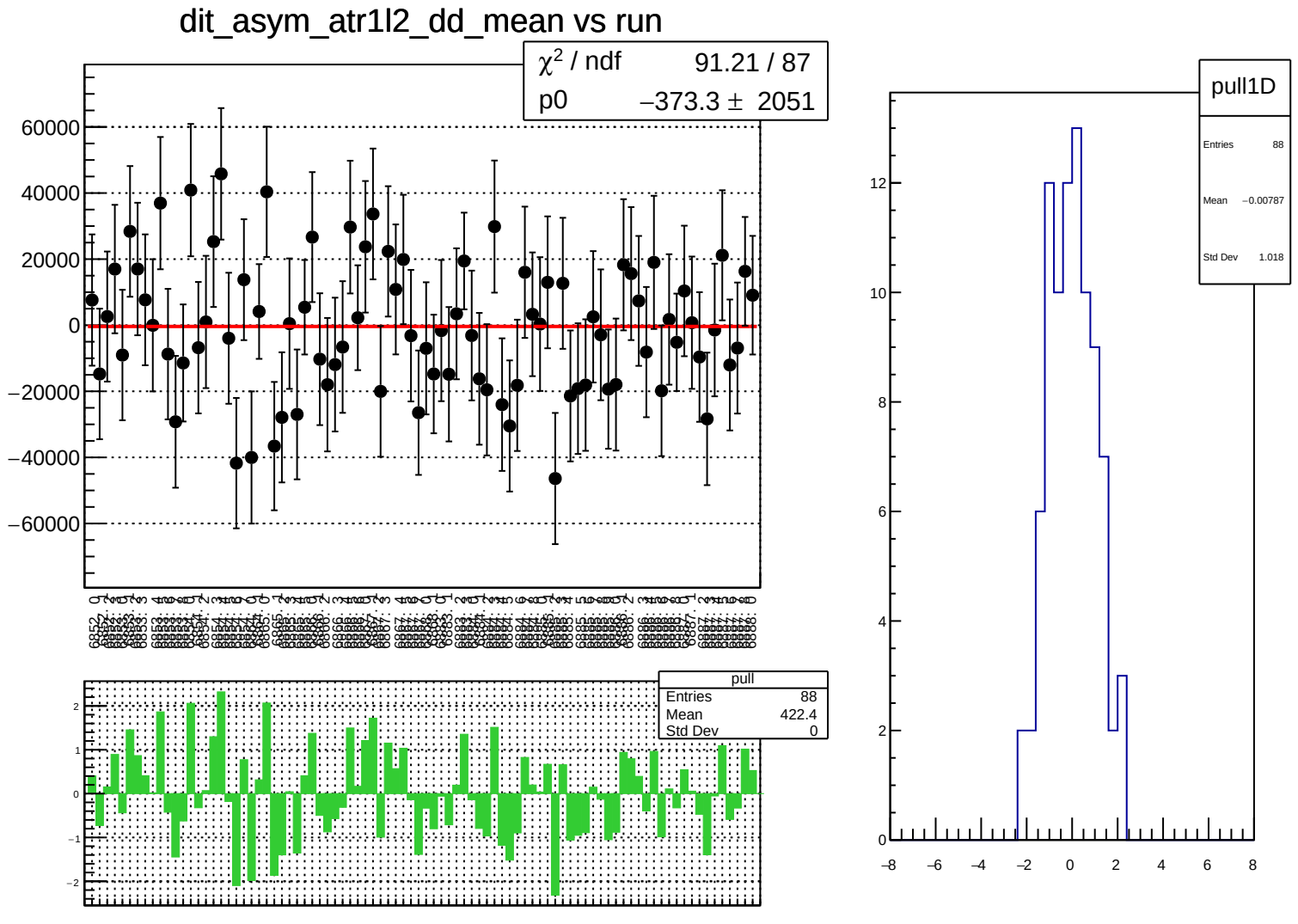

pull1D
Entries 88
Mean −0.004995
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

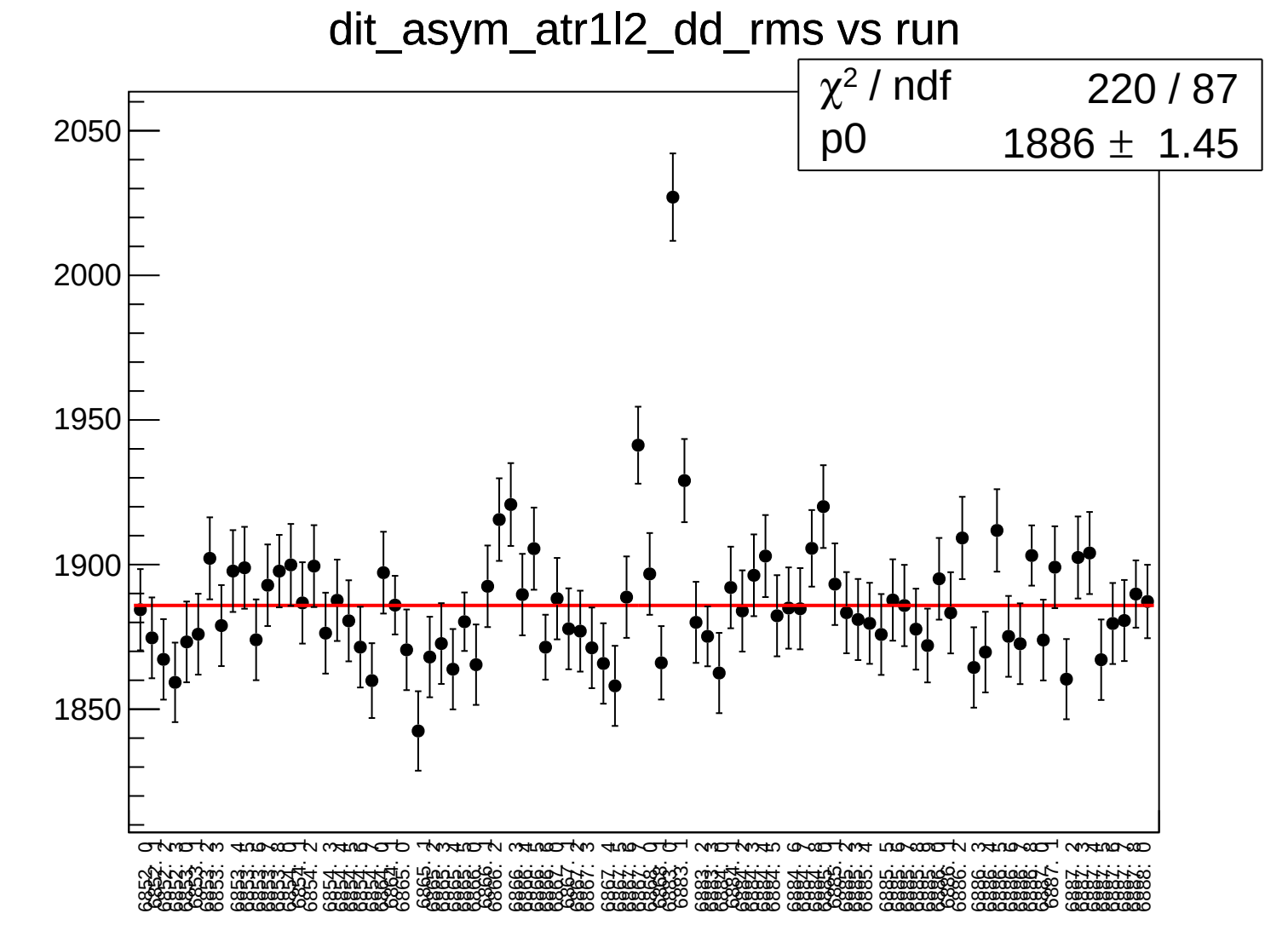

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 202.7 / 87
p0 1855 ± 1.427
2000
1950
1900
1850
1800

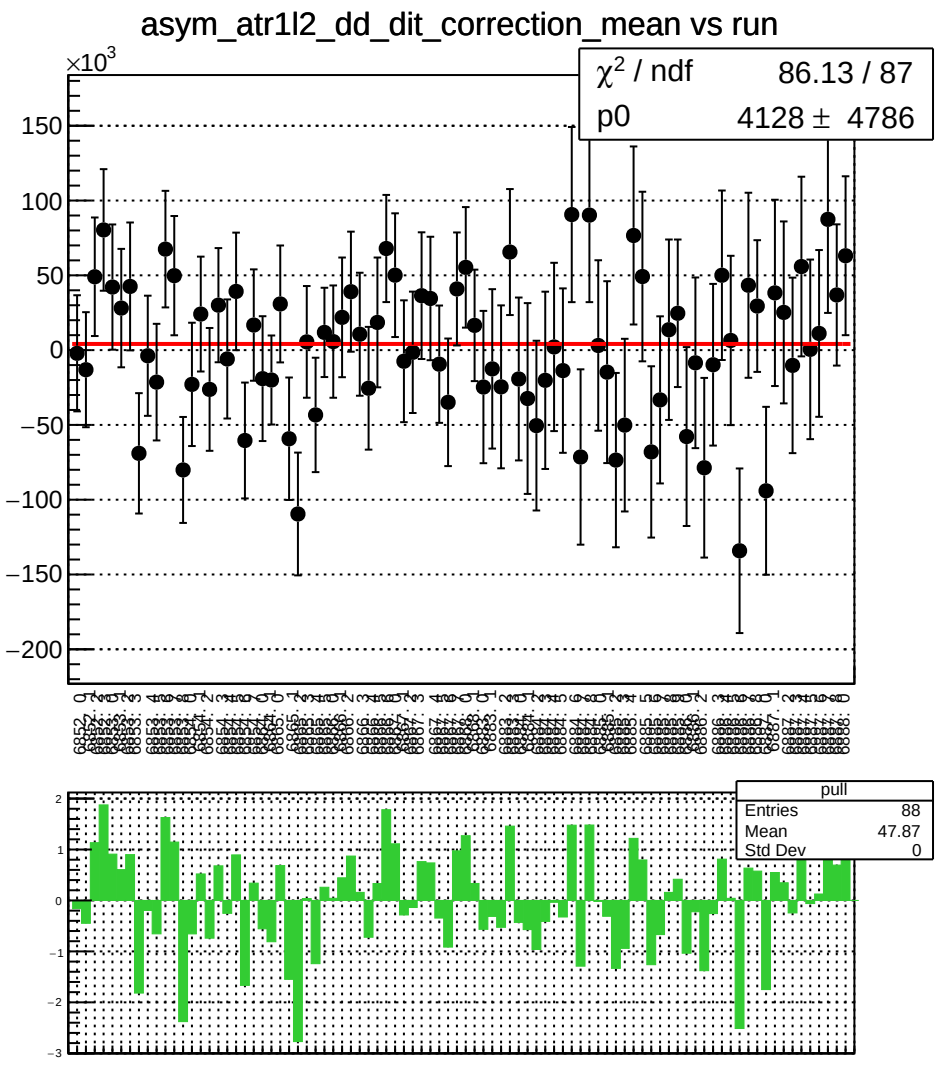

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.29 / 87
p0 3859 ± 4494
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 49.71
Std Dev 0
2
1
0
−1
−2
−3

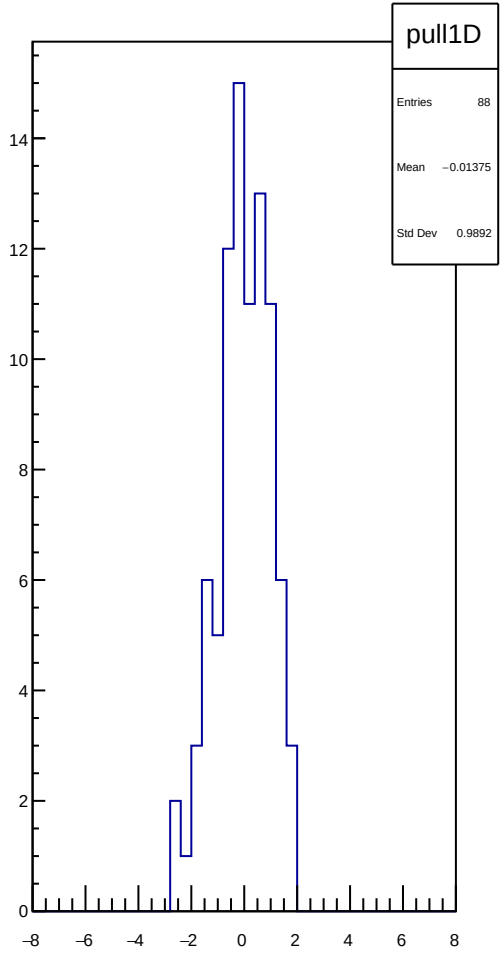

pull1D
Entries 88
Mean −0.01453
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

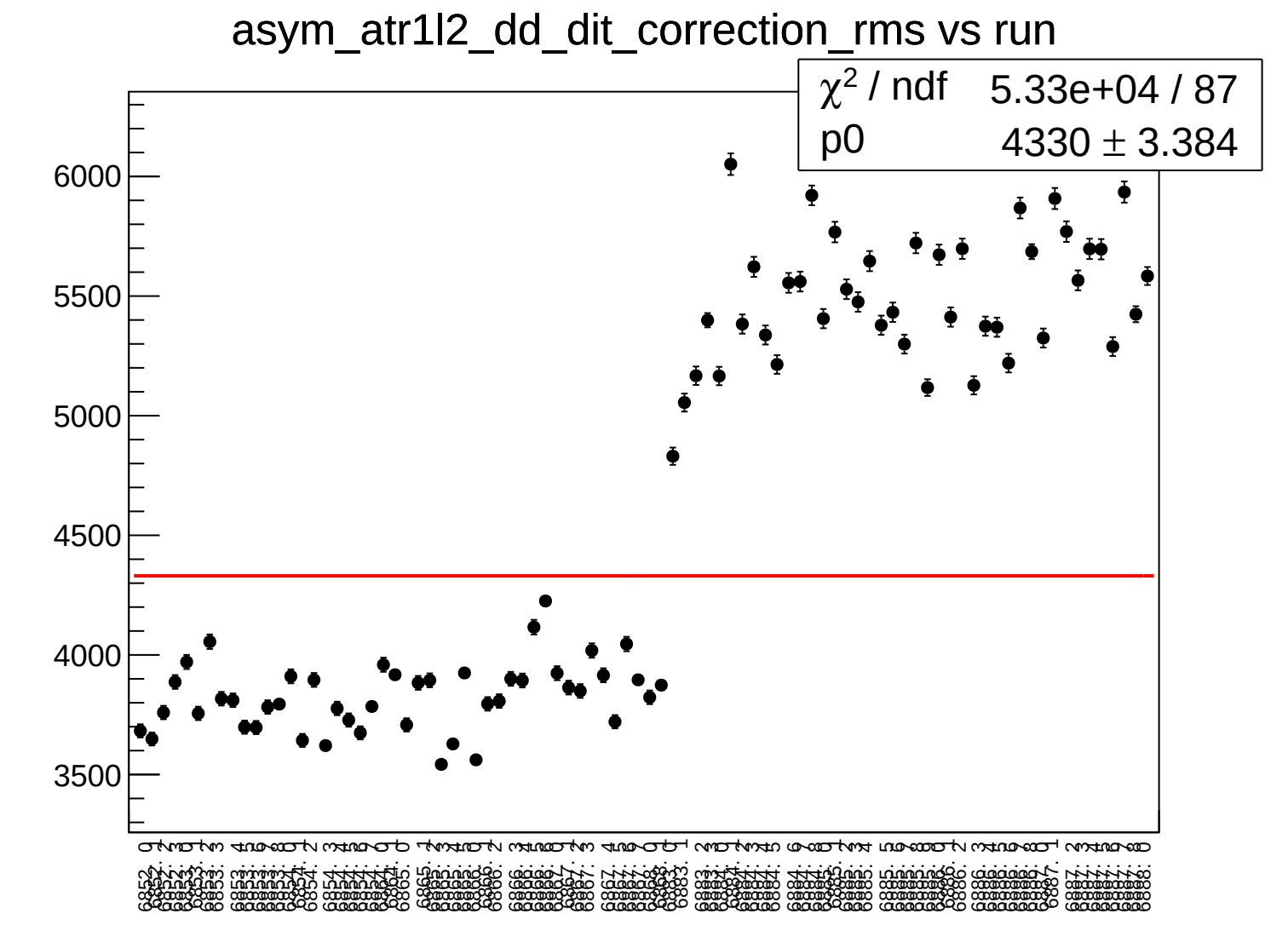

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.68e+04 / 87
p0 4062 ± 3.178
6000
5500
5000
4500
4000
3500

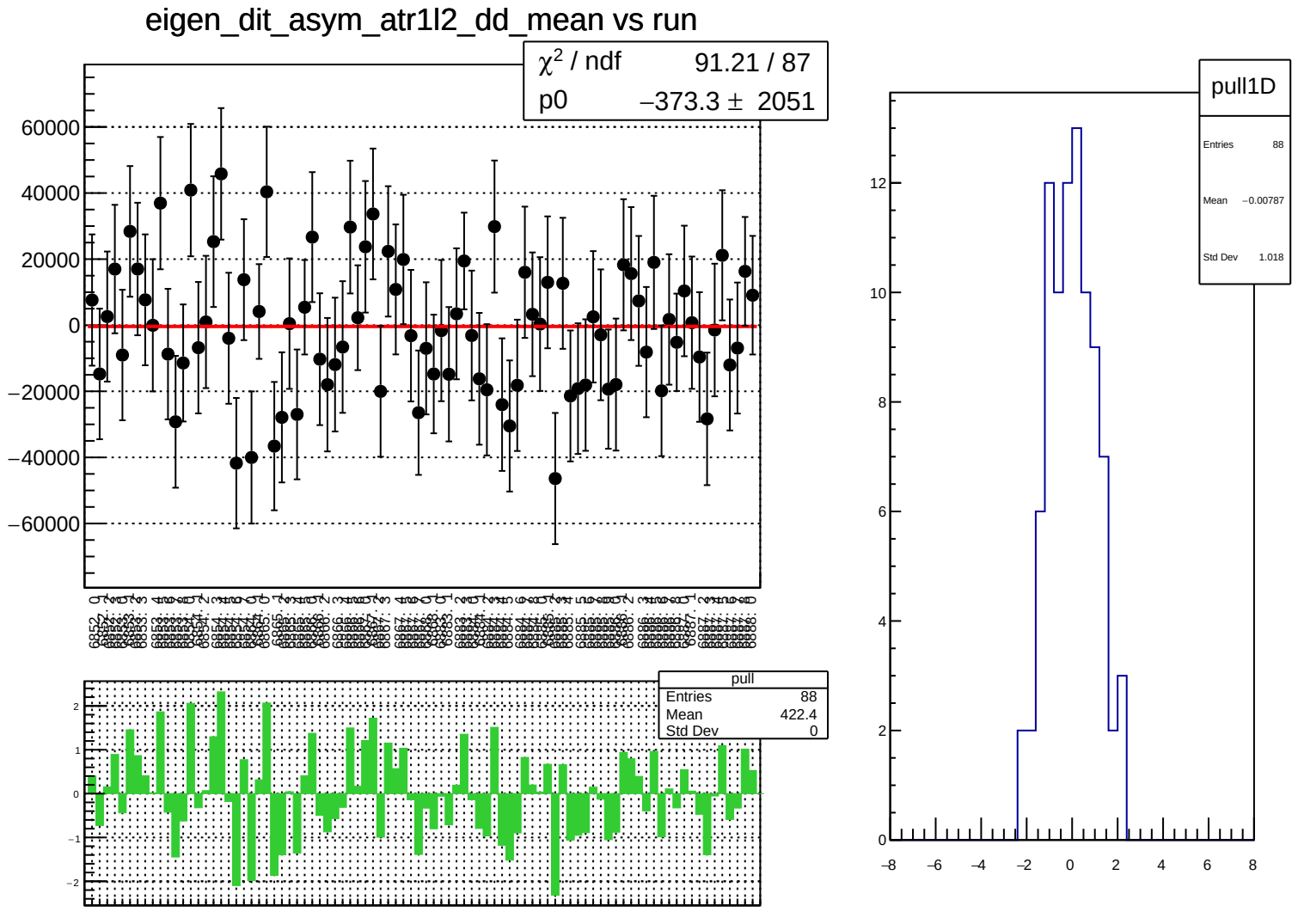

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 91.21 / 87
p0 −373.3 ± 2051
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 422.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00787
Std Dev 1.018
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

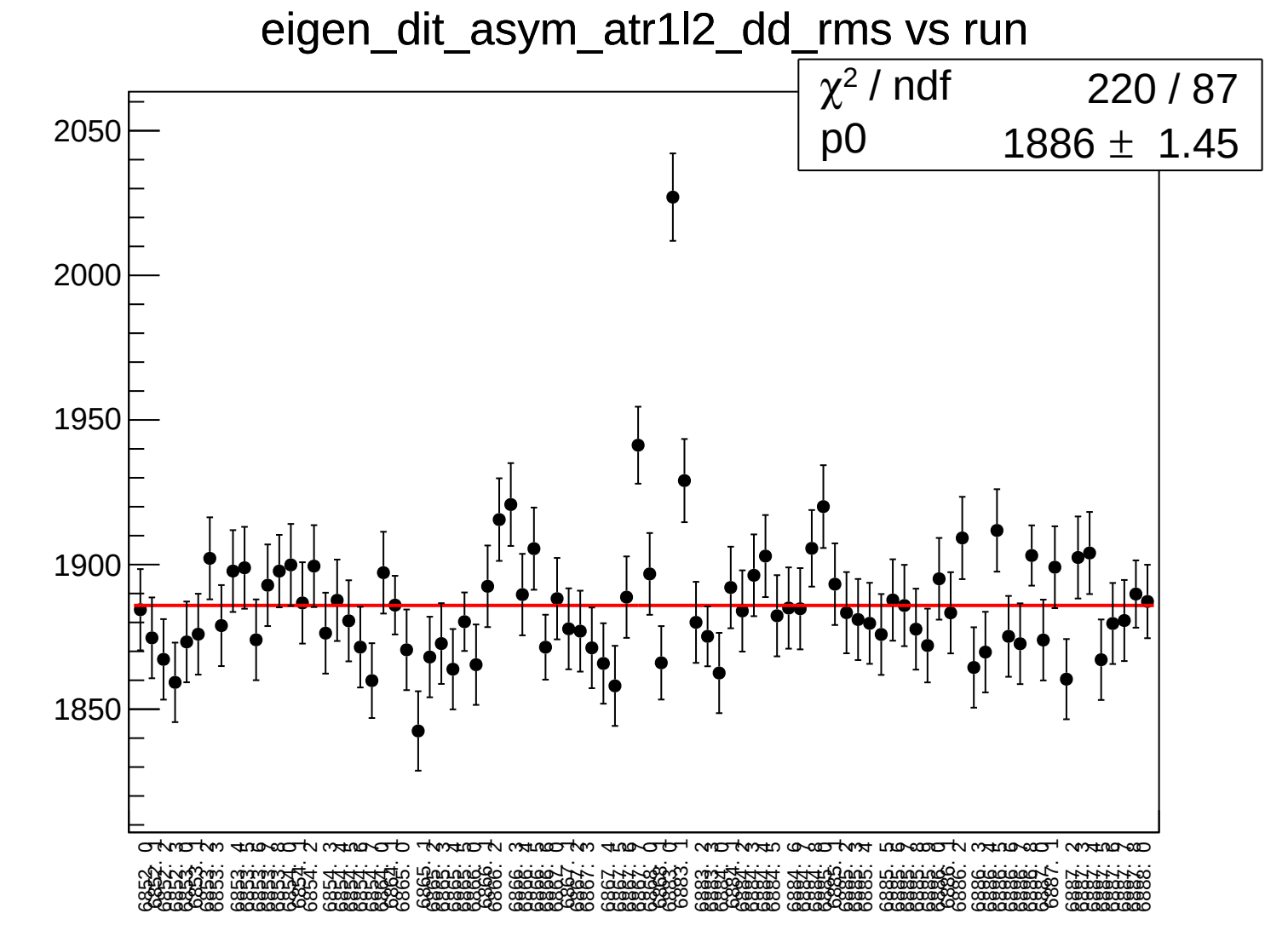

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 220 / 87
p0 1886 ± 1.45
2050
2000
1950
1900
1850

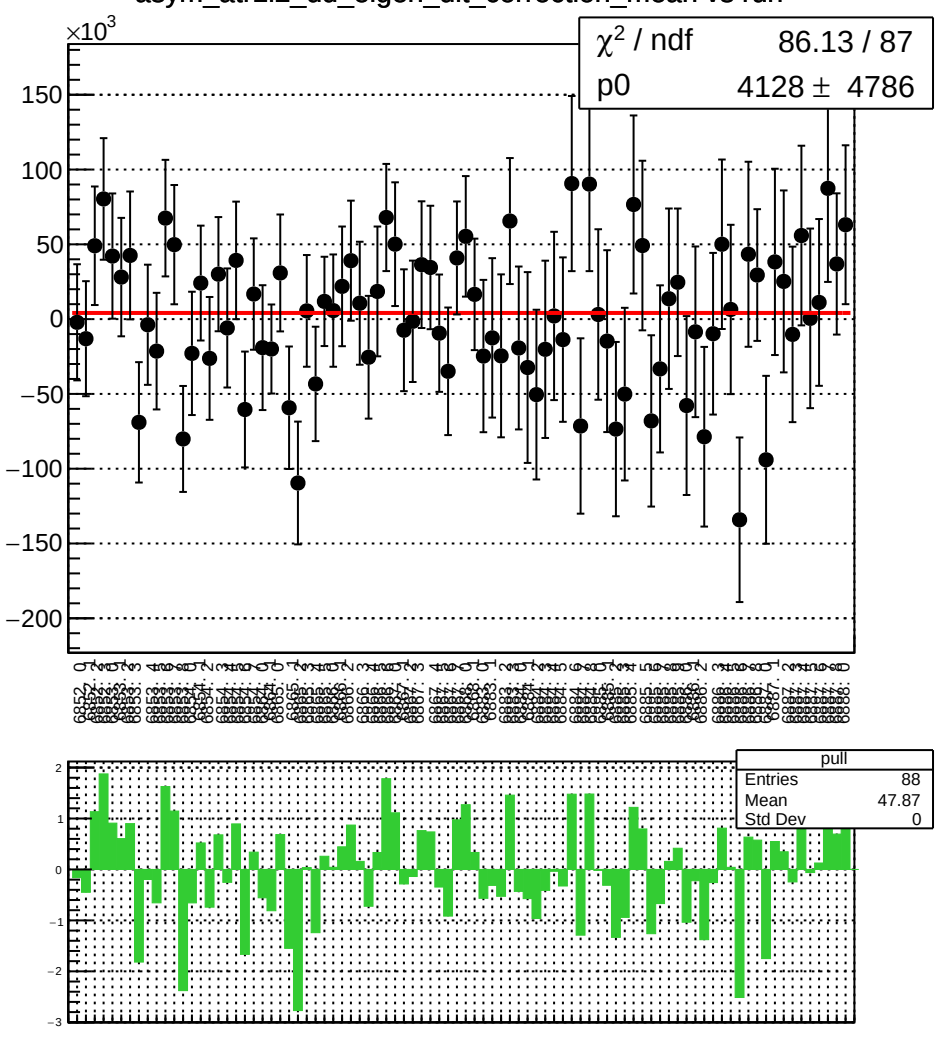

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.13 / 87
p0 4128 ± 4786
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 47.87
Std Dev 0
2
1
0
−1
−2
−3

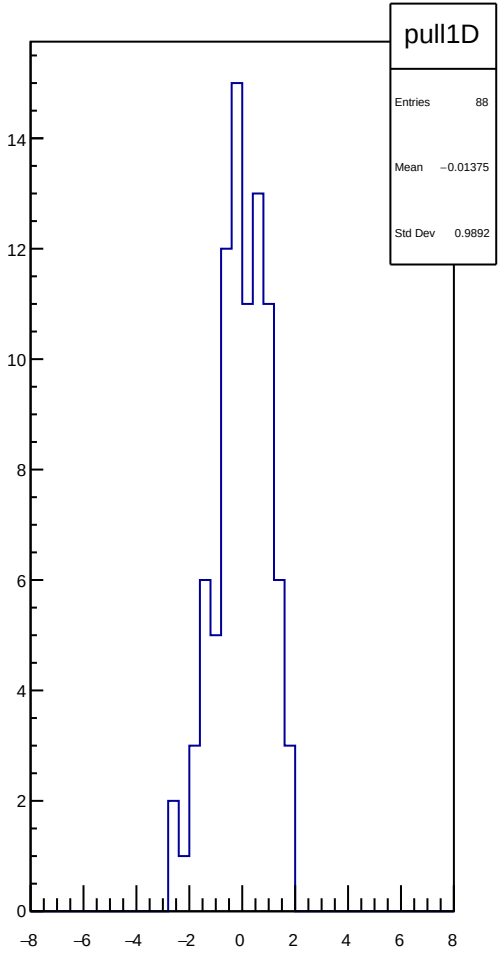

pull1D
Entries 88
Mean −0.01375
Std Dev 0.9892
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

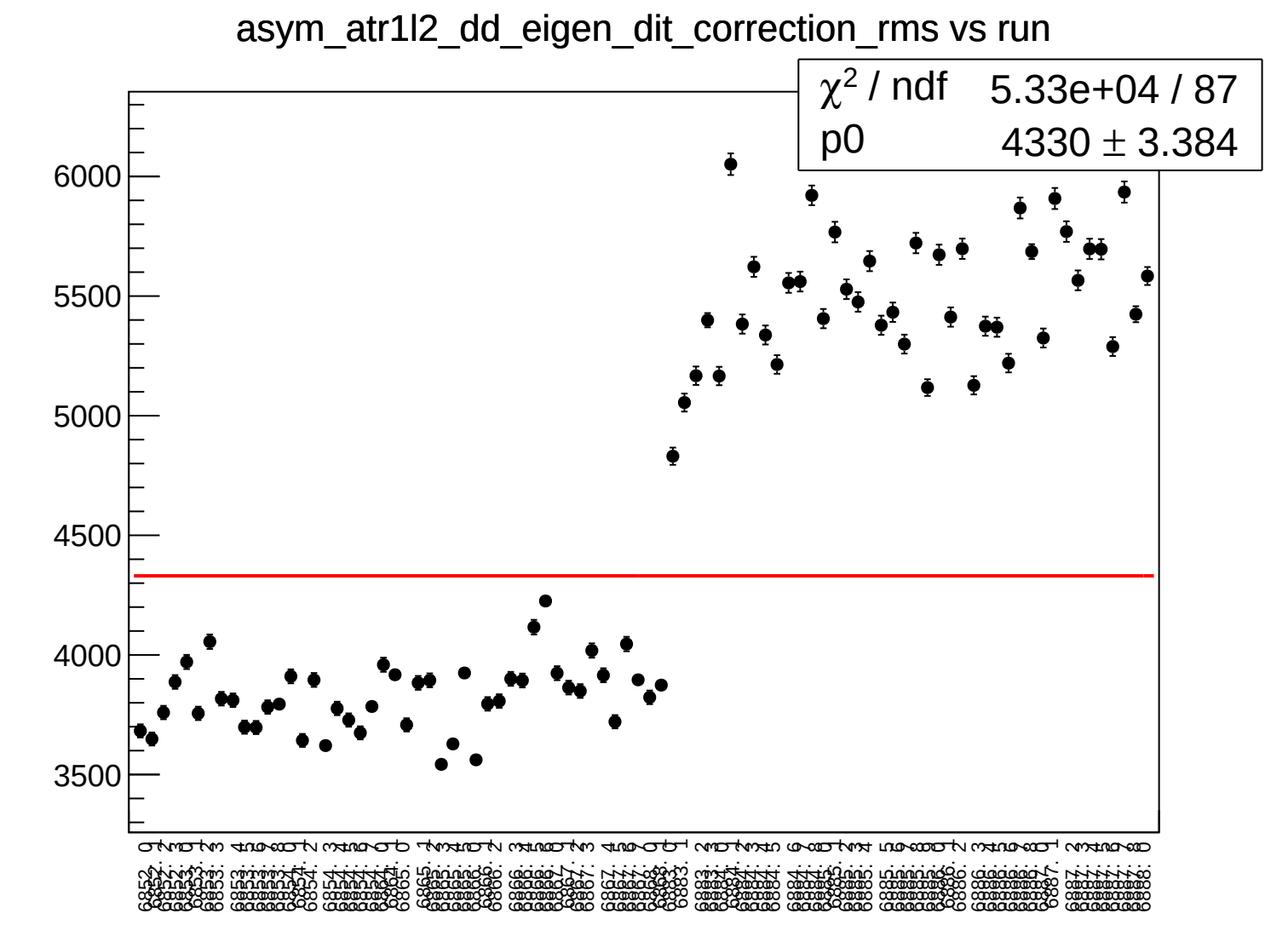

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 5.33e+04 / 87
p0 4330 ± 3.384
6000
5500
5000
4500
4000
3500

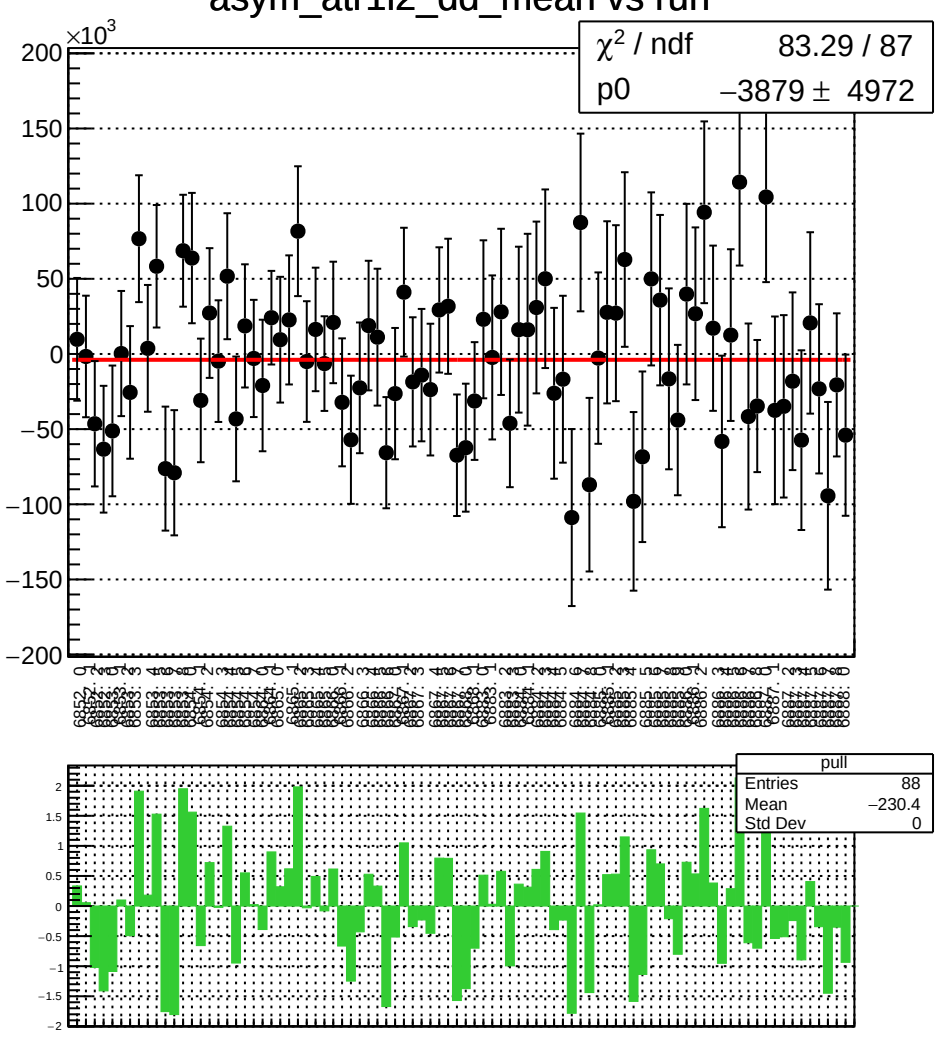

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 91.21 / 87
p0 −373.3 ± 2051
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 422.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00787
Std Dev 1.018
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

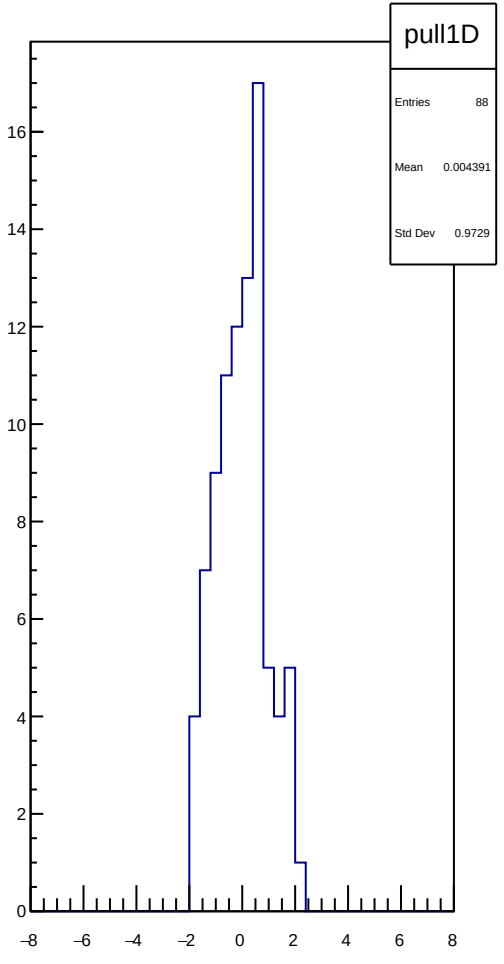

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 220 / 87
p0 1886 ± 1.45
2050
2000
1950
1900
1850

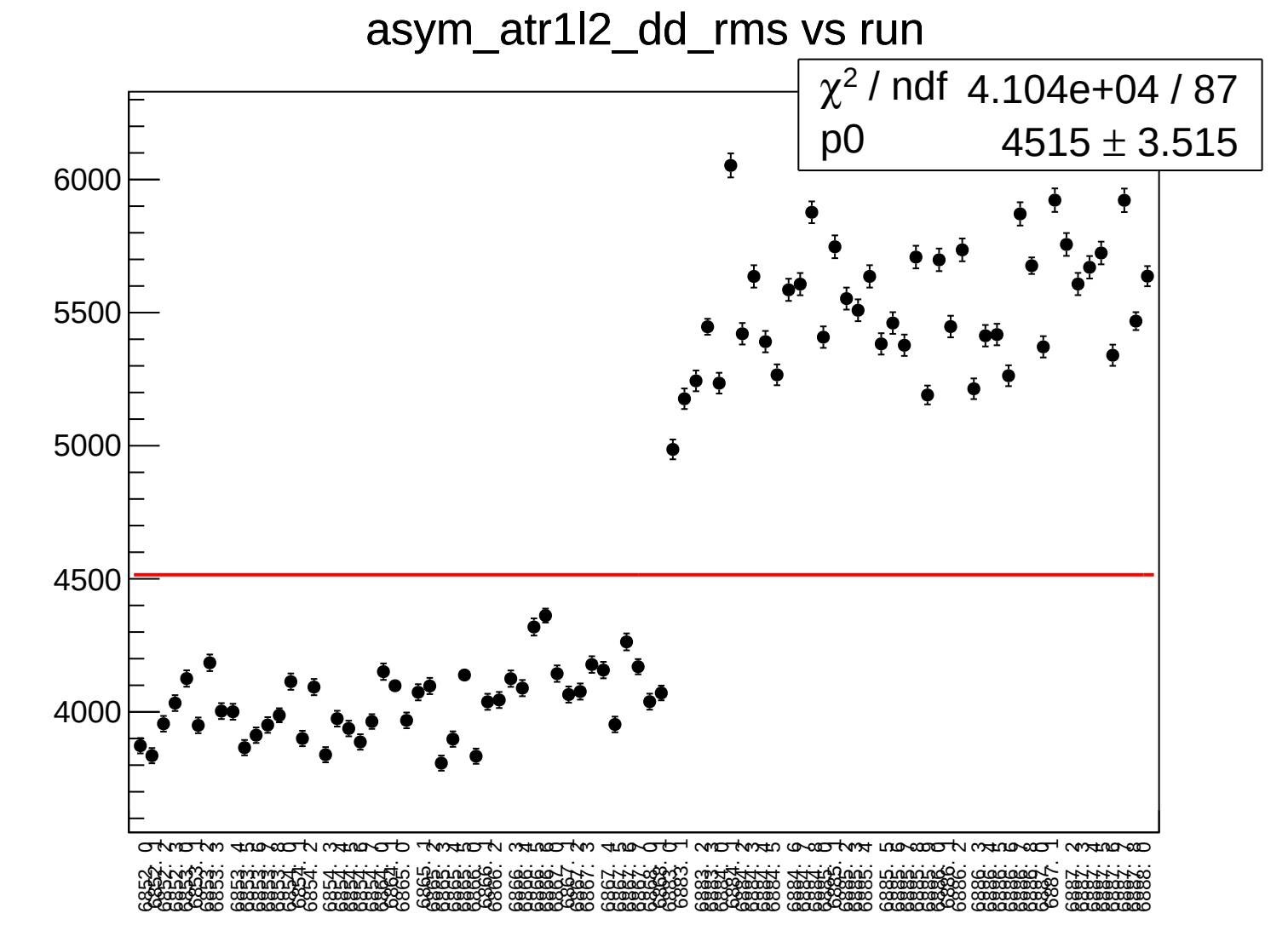

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.13 / 87
p0 4128 ± 4786
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 47.87
Std Dev 0
2
1
0
−1
−2
−3

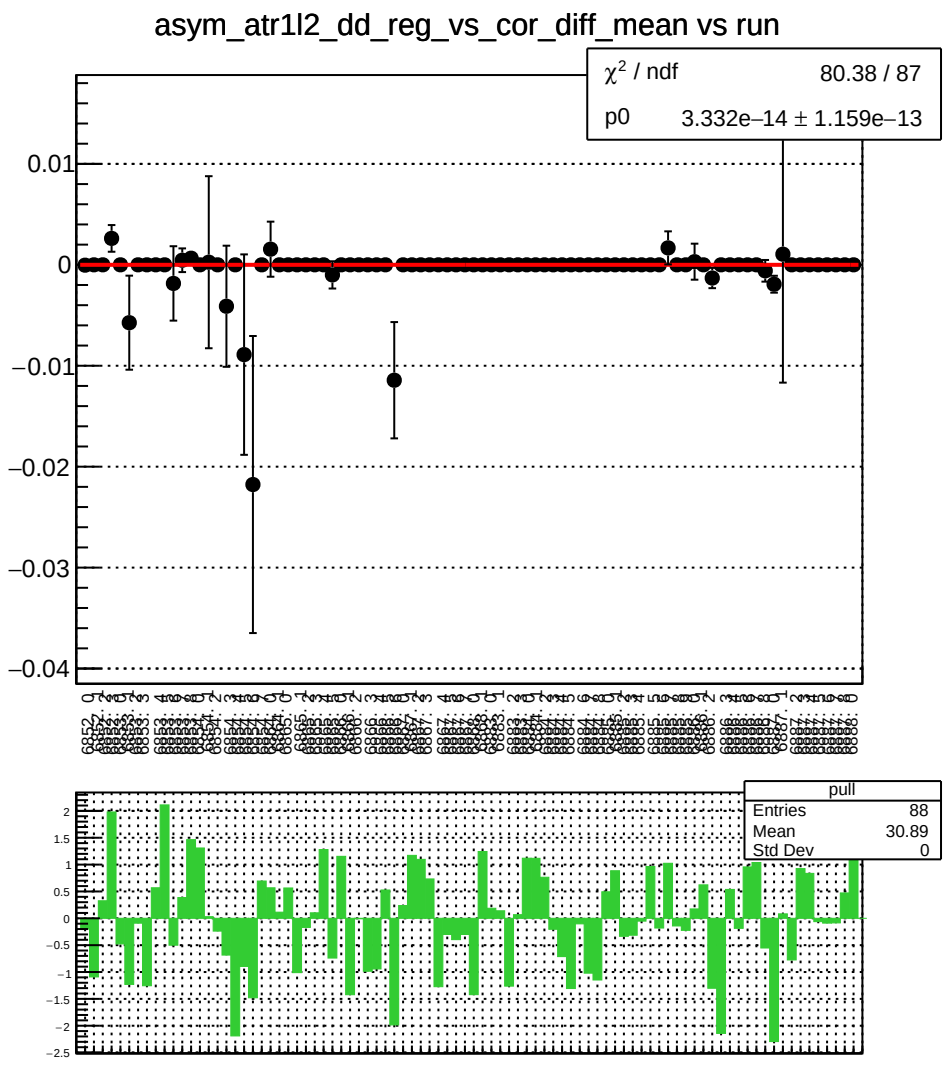

pull1D
Entries 88
Mean −0.01375
Std Dev 0.9892
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

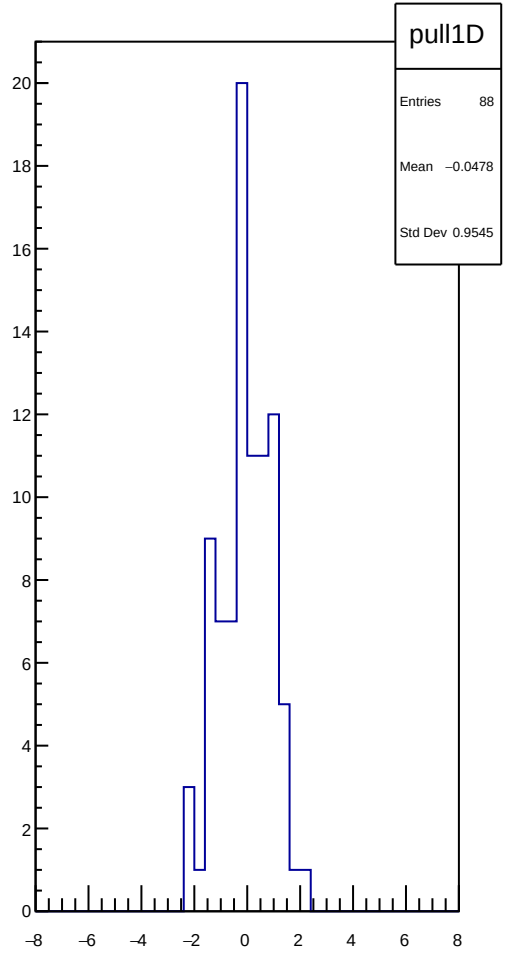

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.33e+04 / 87
p0 4330 ± 3.384
6000
5500
5000
4500
4000
3500

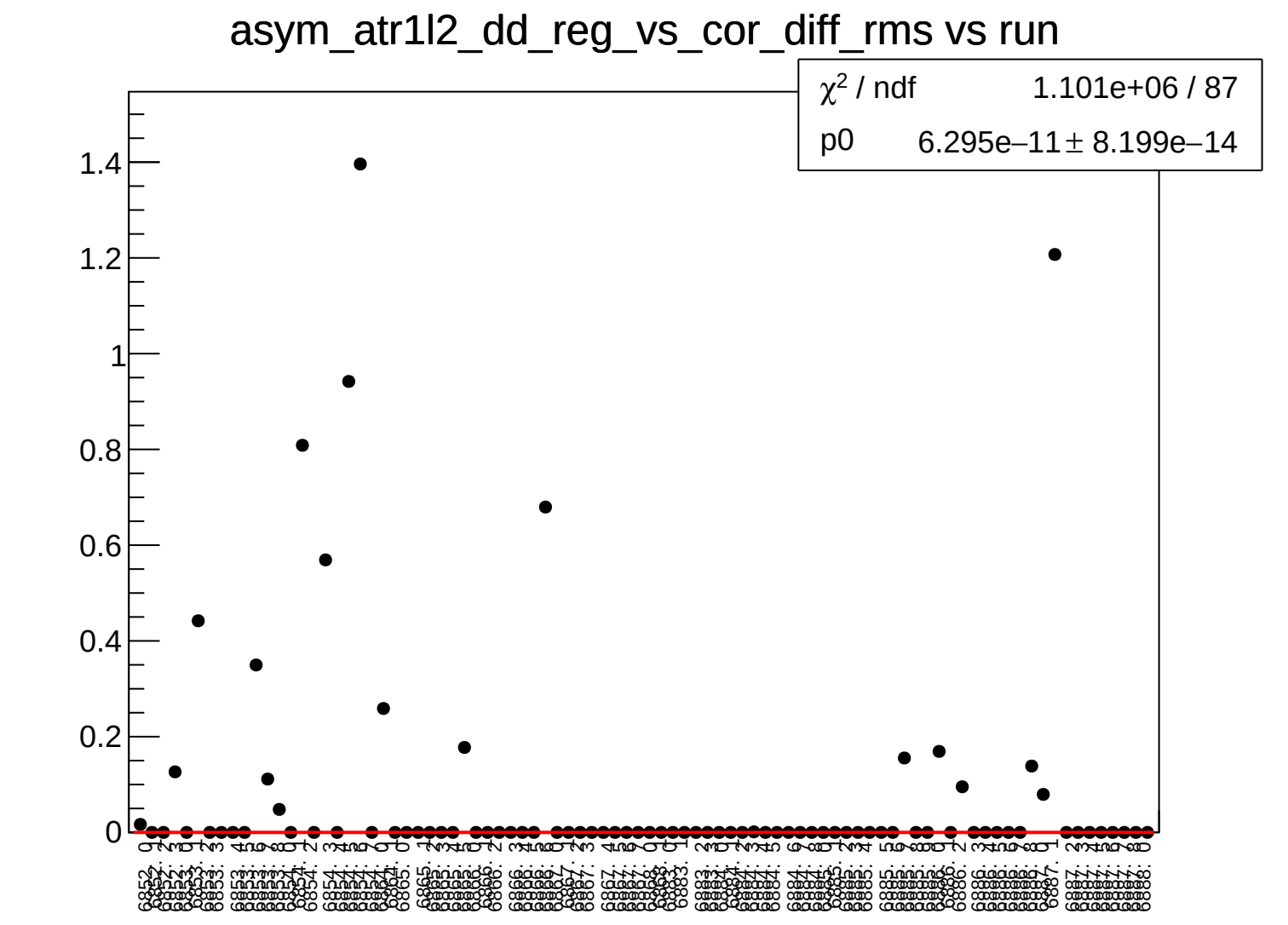

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 83.29 / 87
p0 −3879 ± 4972
pull
Entries 88
Mean −230.4
Std Dev 0

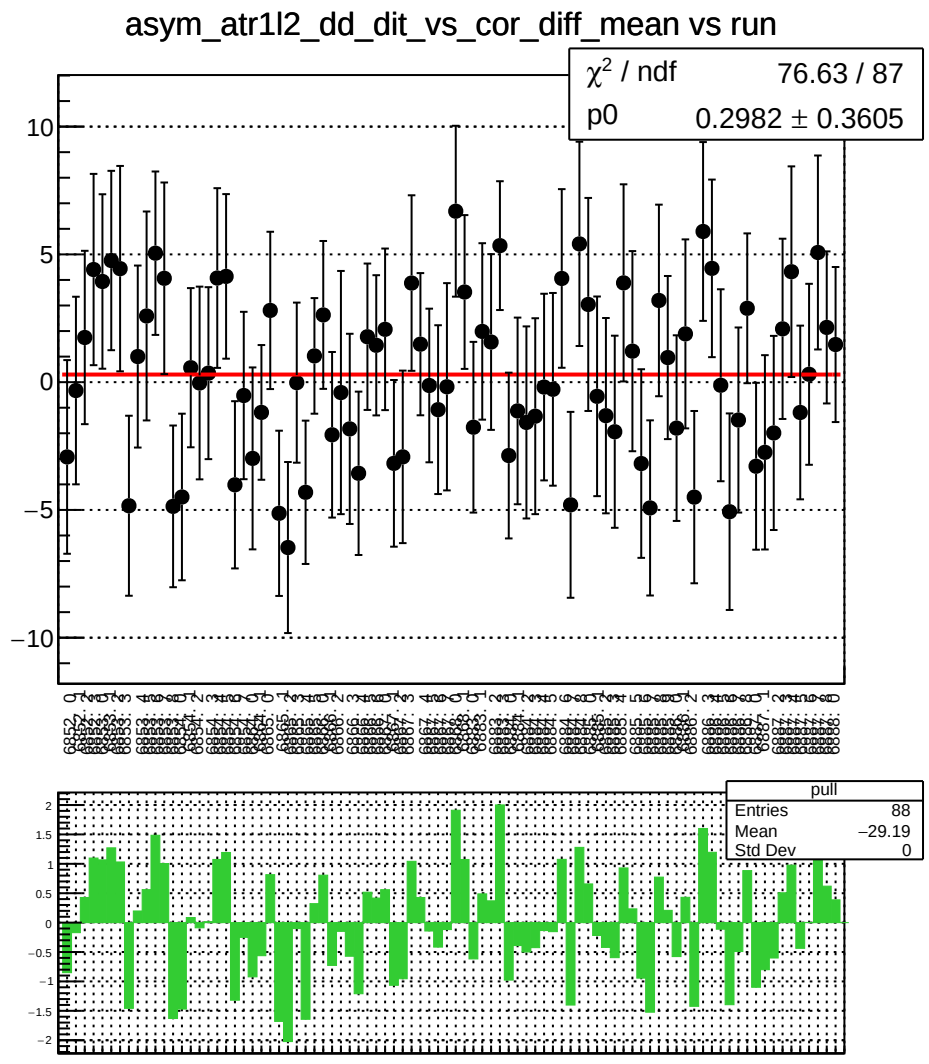

pull1D
Entries 88
Mean 0.004391
Std Dev 0.9729

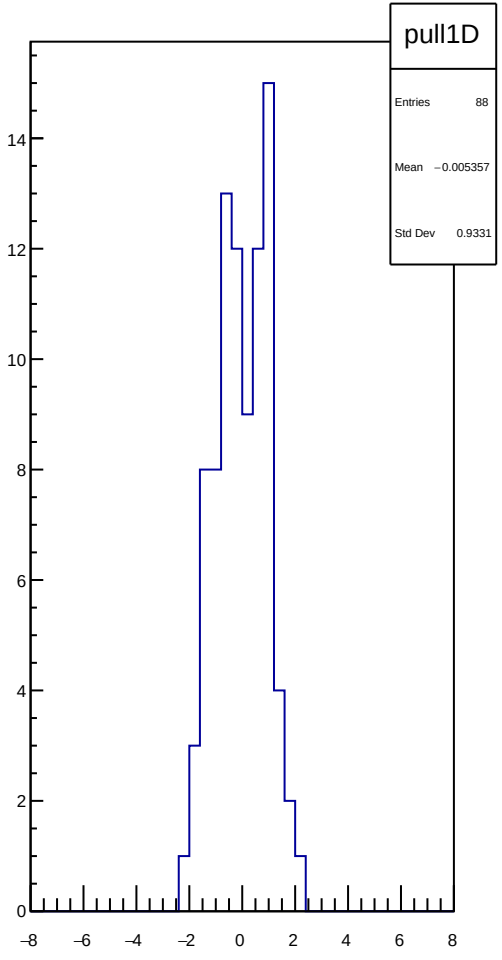

asym_atr1l2_dd_rms vs run
χ² / ndf 4.104e+04 / 87
p0 4515 ± 3.515
6000
5500
5000
4500
4000

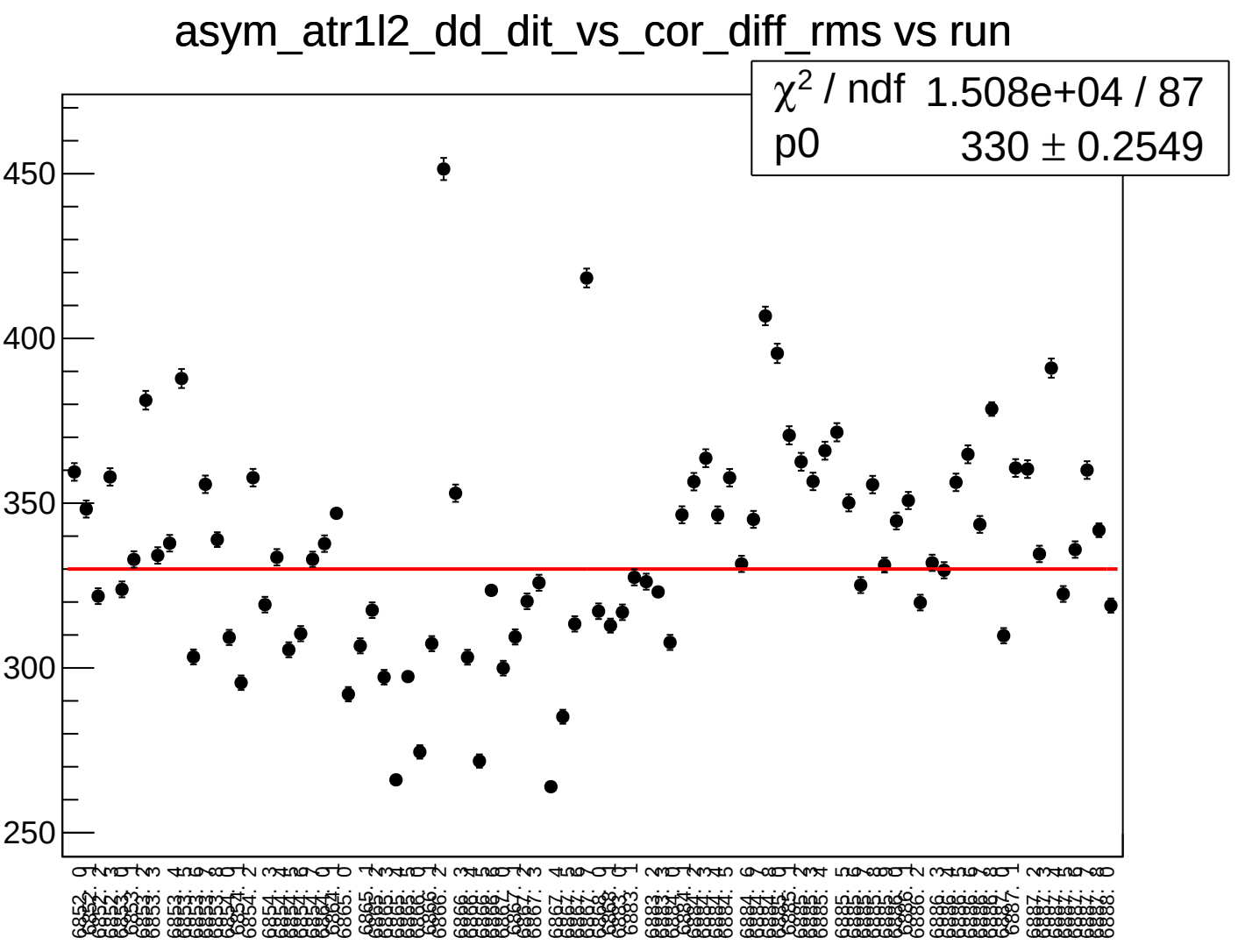

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.38 / 87
p0 3.332e−14 ± 1.159e−13
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 88
Mean 30.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

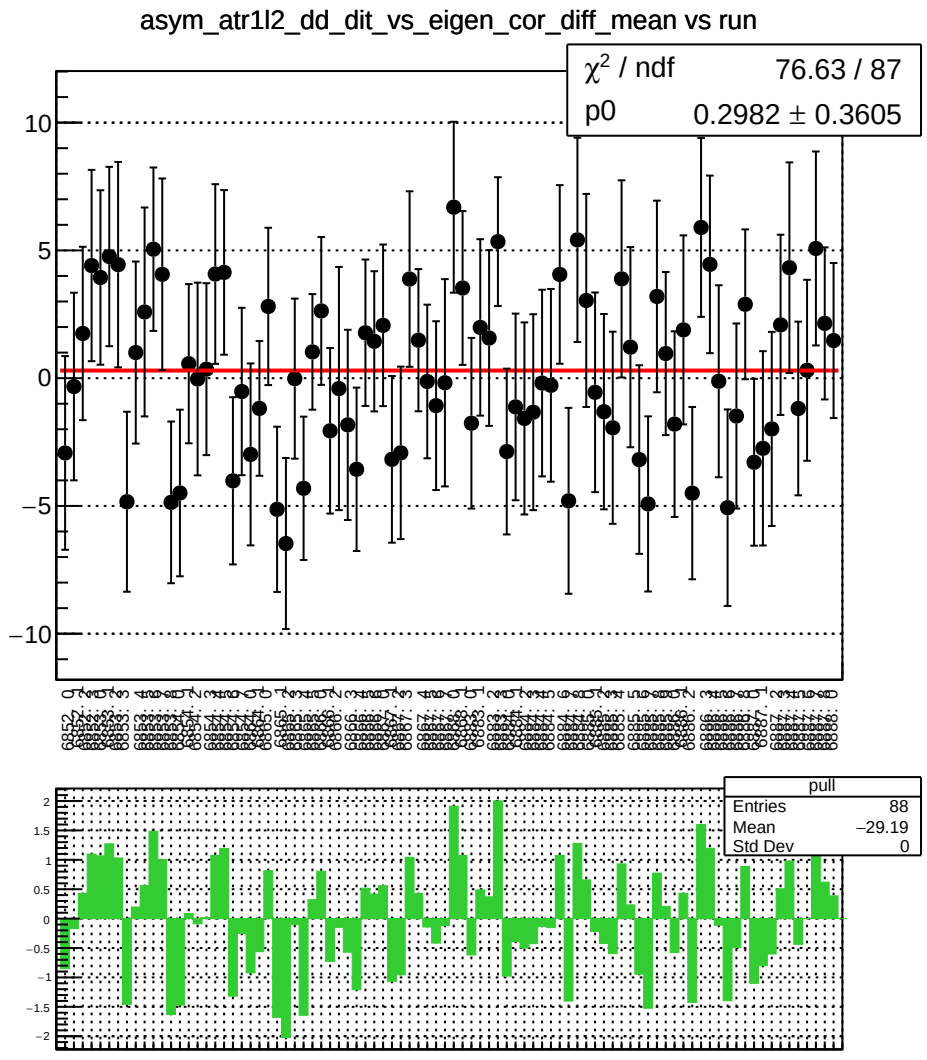

pull1D
Entries 88
Mean −0.0478
Std Dev 0.9545
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

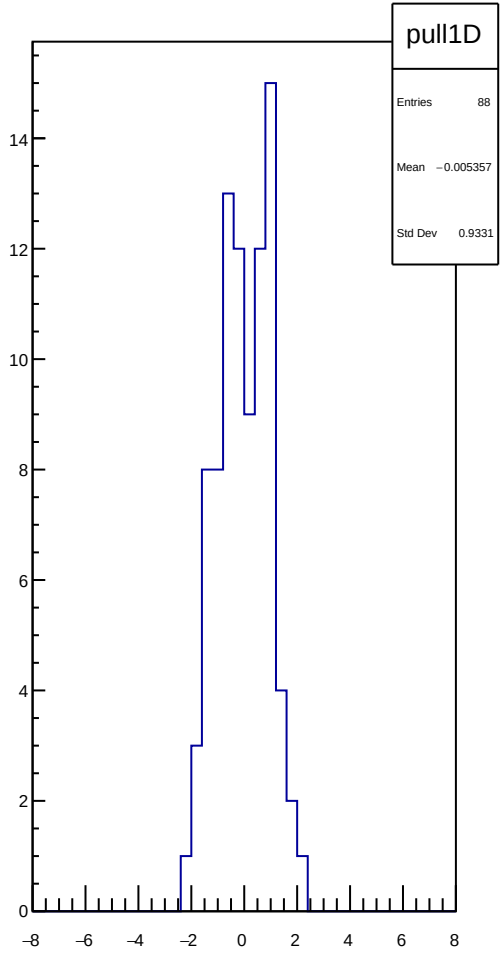

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.101e+06 / 87
p0 6.295e−11 ± 8.199e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

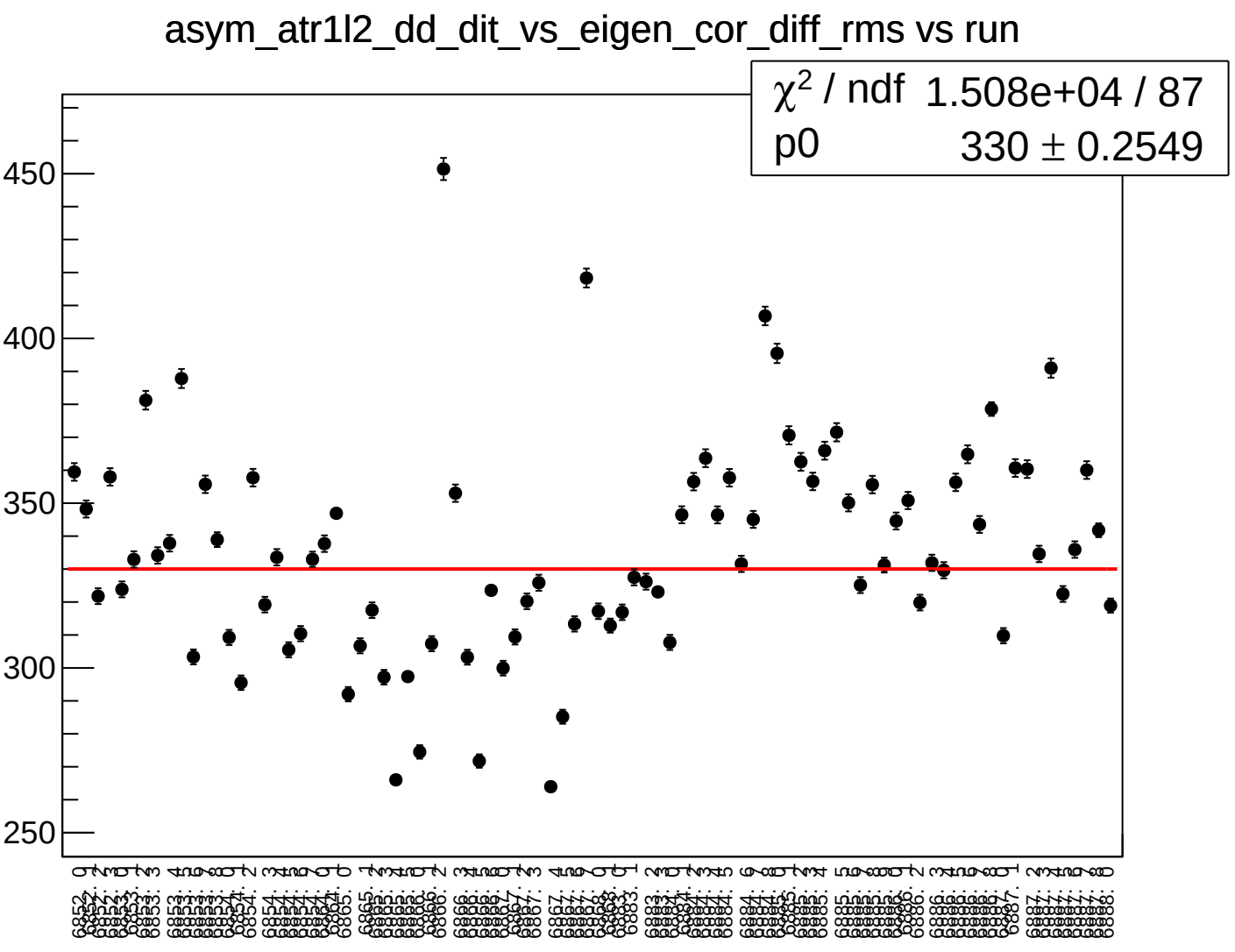

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.63 / 87
p0 0.2982 ± 0.3605
pull
Entries 88
Mean −29.19
Std Dev 0

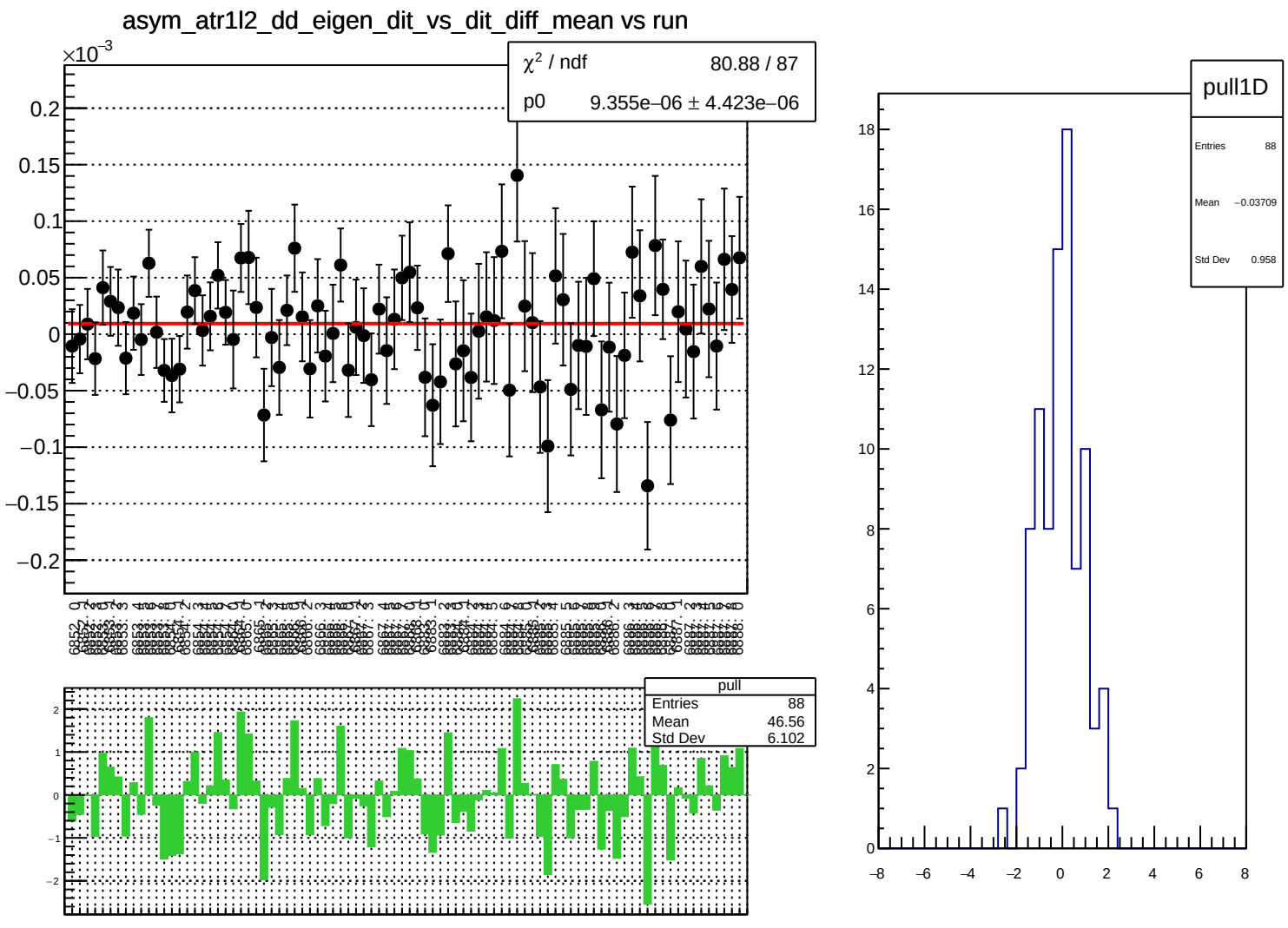

pull1D
Entries 88
Mean −0.005357
Std Dev 0.9331

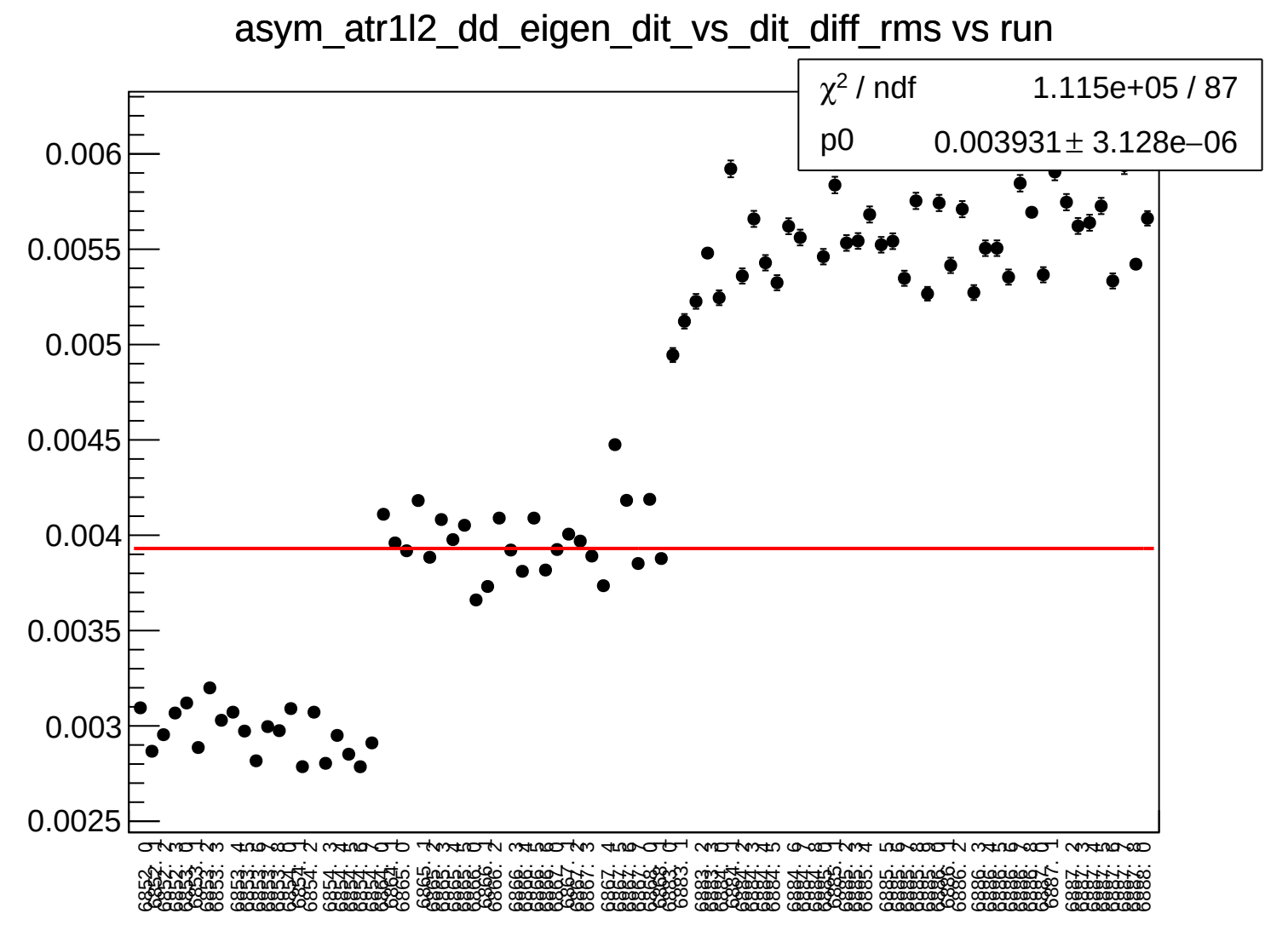

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.508e+04 / 87
p0 330 ± 0.2549
450
400
350
300
250

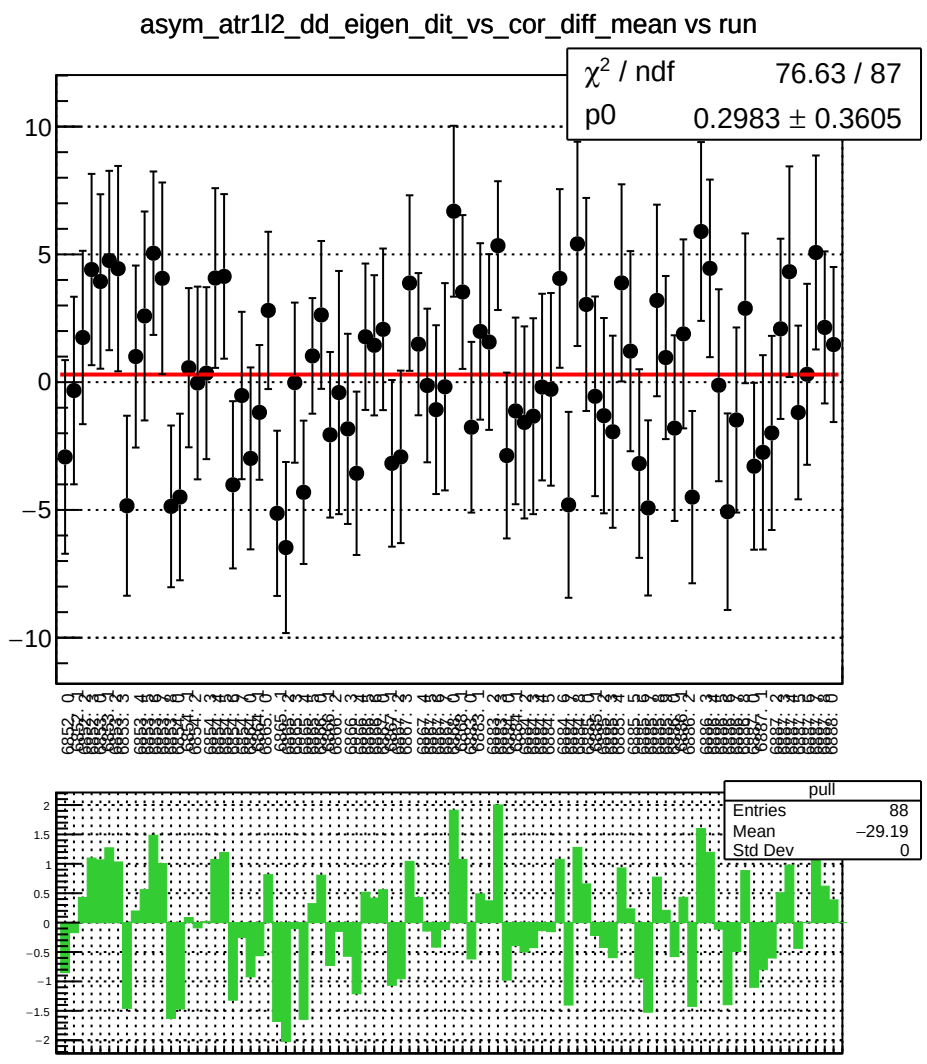

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.63 / 87
p0 0.2982 ± 0.3605
pull
Entries 88
Mean −29.19
Std Dev 0

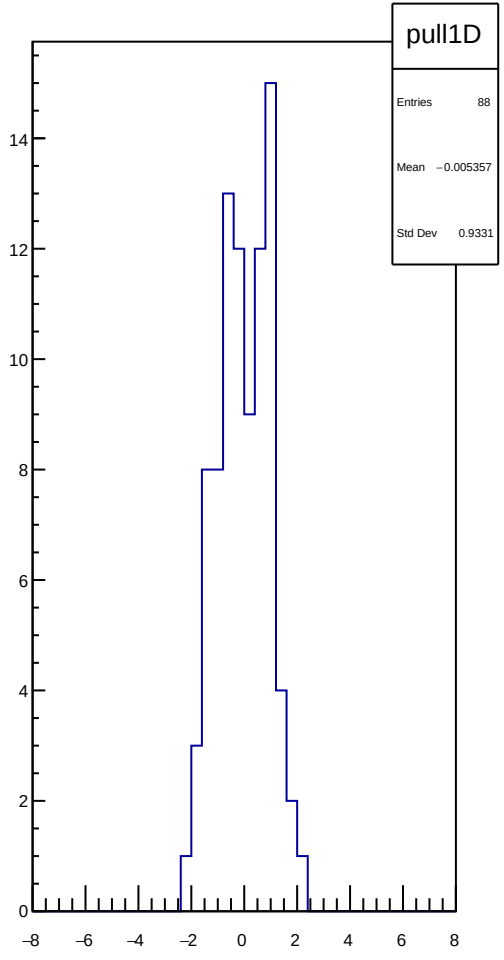

pull1D
Entries 88
Mean −0.005357
Std Dev 0.9331

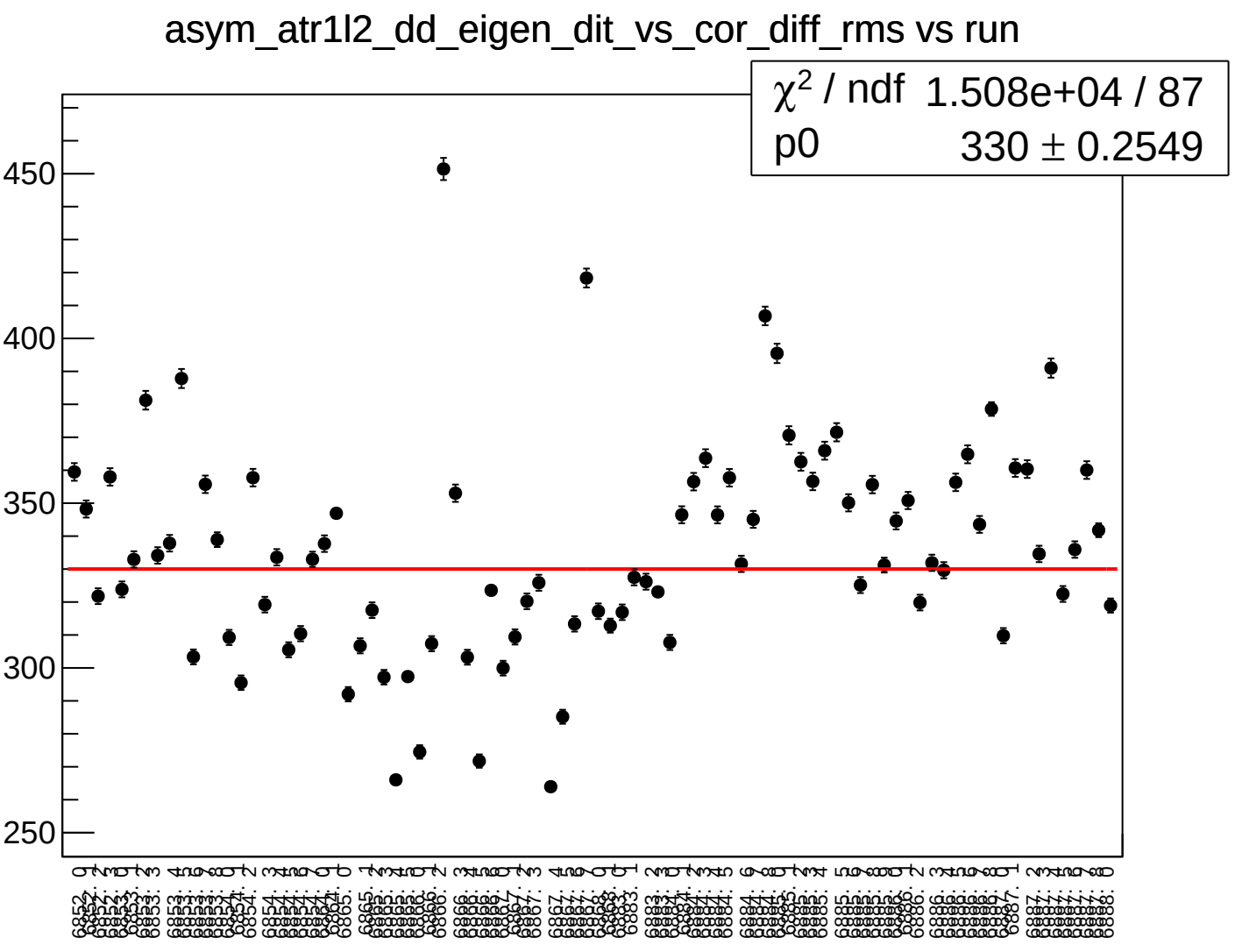

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.508e+04 / 87
p0 330 ± 0.2549
450
400
350
300
250

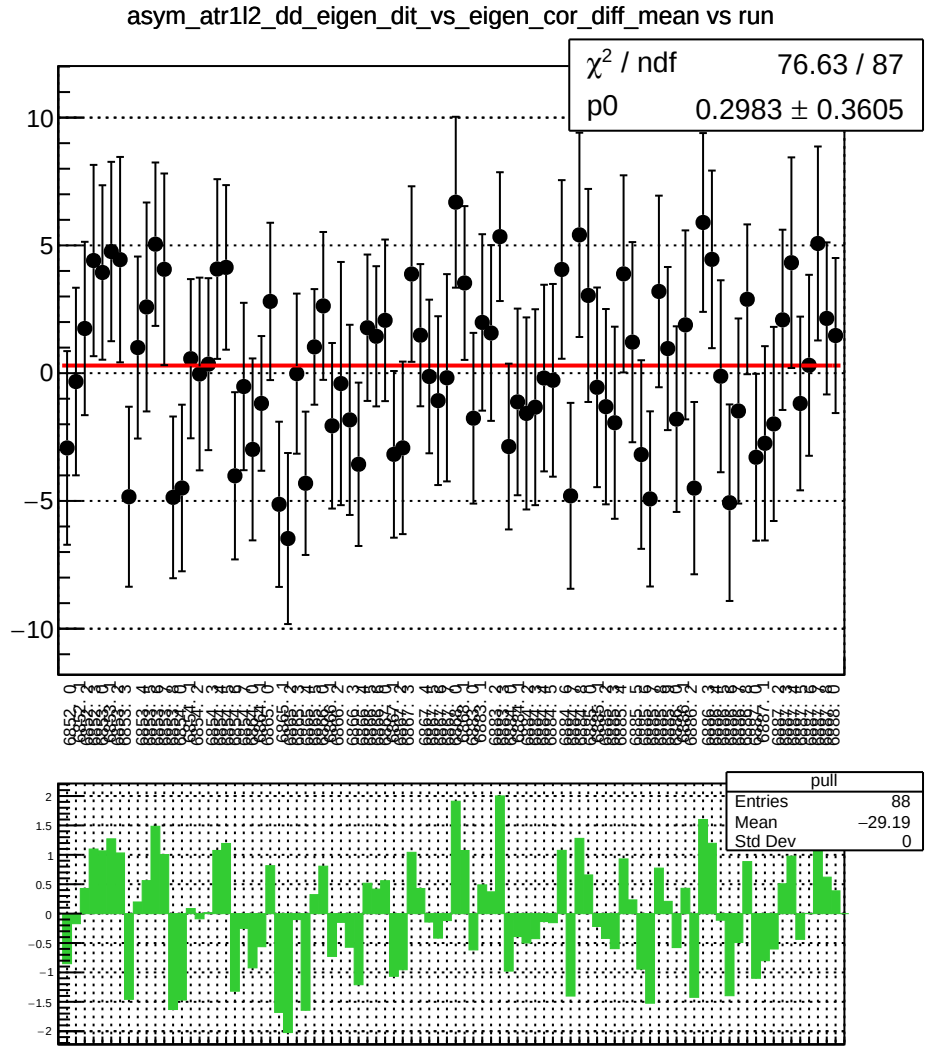

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.88 / 87
p0 9.355e−06 ± 4.423e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 88
Mean 46.56
Std Dev 6.102
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.03709
Std Dev 0.958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

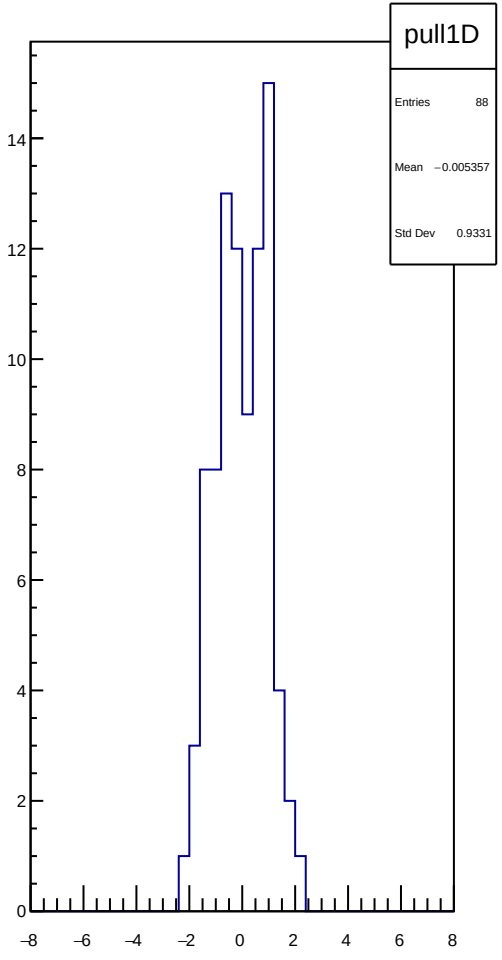

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.115e+05 / 87
p0 0.003931 ± 3.128e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

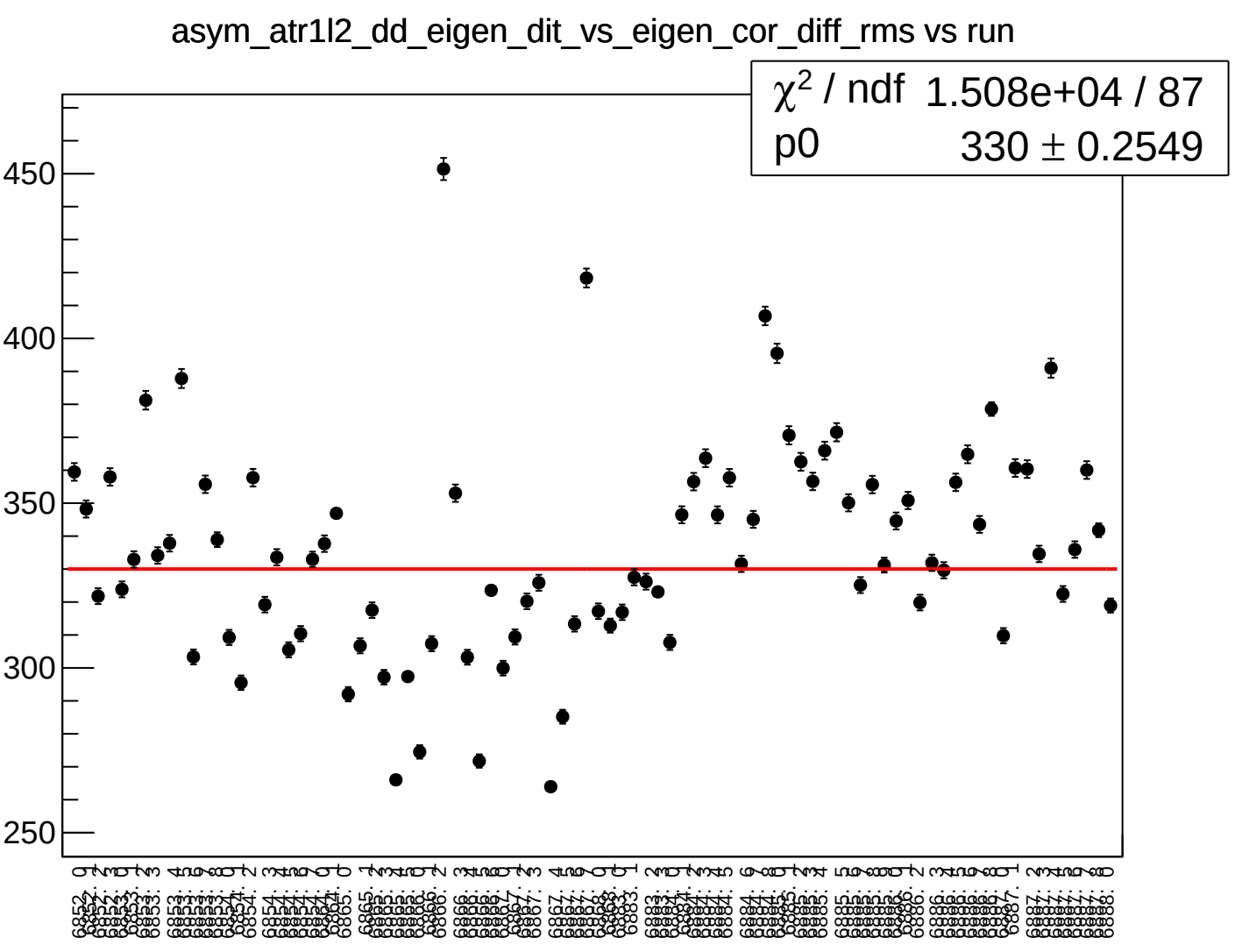

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.63 / 87
p0 0.2983 ± 0.3605
10
5
0
−5
−10
pull
Entries 88
Mean −29.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

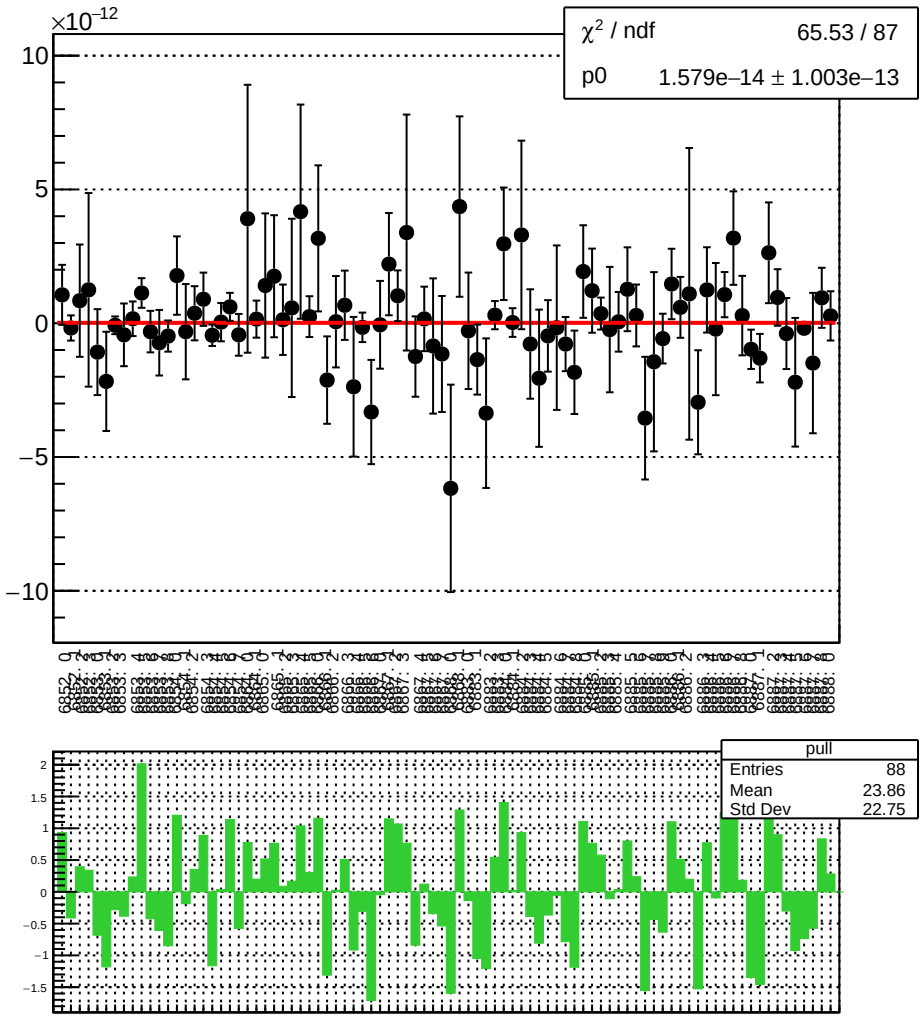

pull1D
Entries 88
Mean −0.005357
Std Dev 0.9331
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

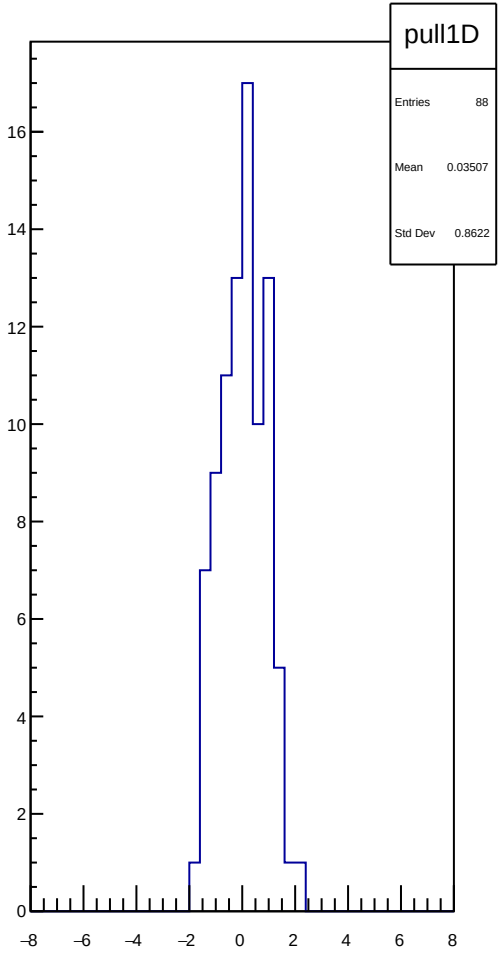

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.508e+04 / 87
p0 330 ± 0.2549
450
400
350
300
250

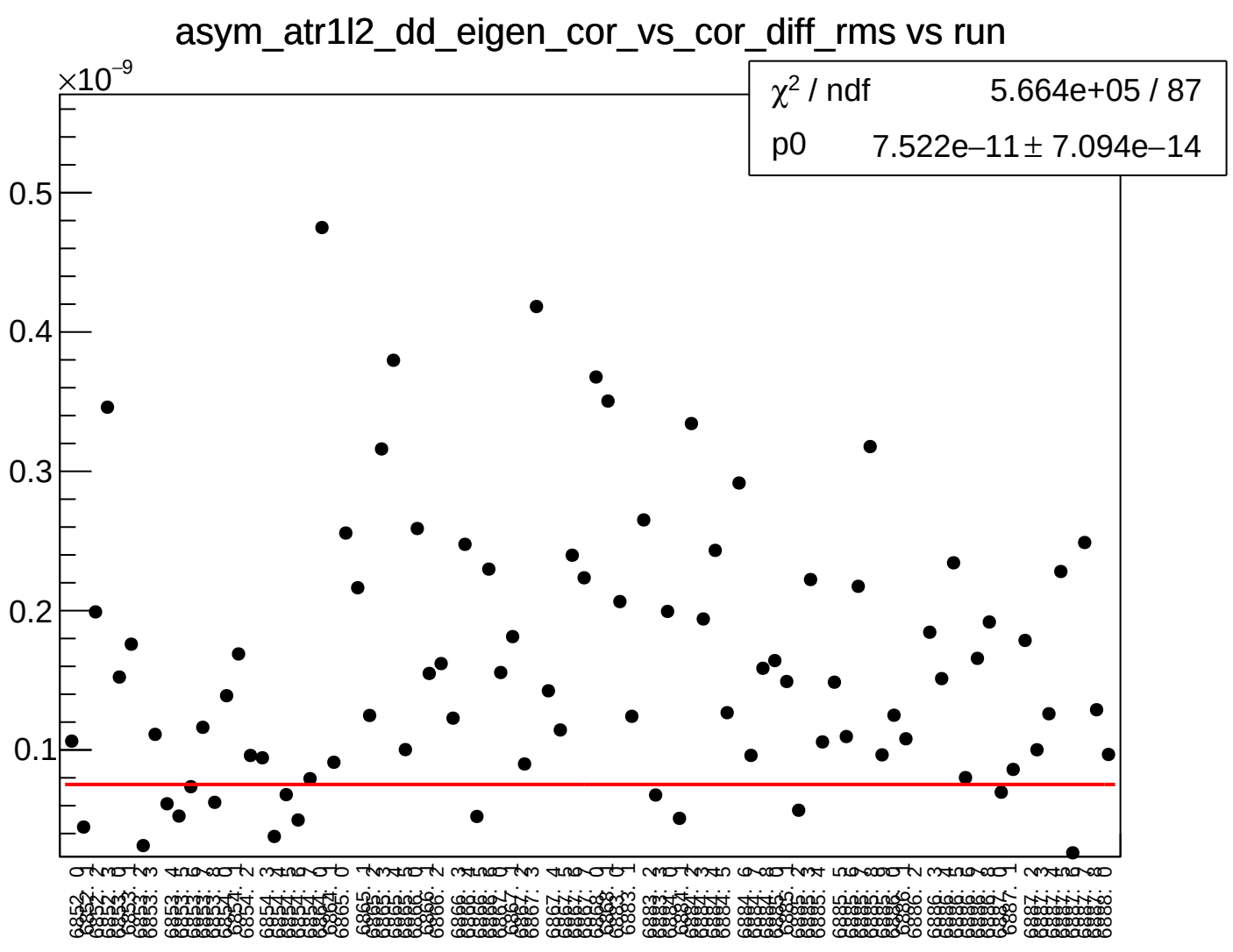

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.63 / 87
p0 0.2983 ± 0.3605
pull
Entries 88
Mean −29.19
Std Dev 0

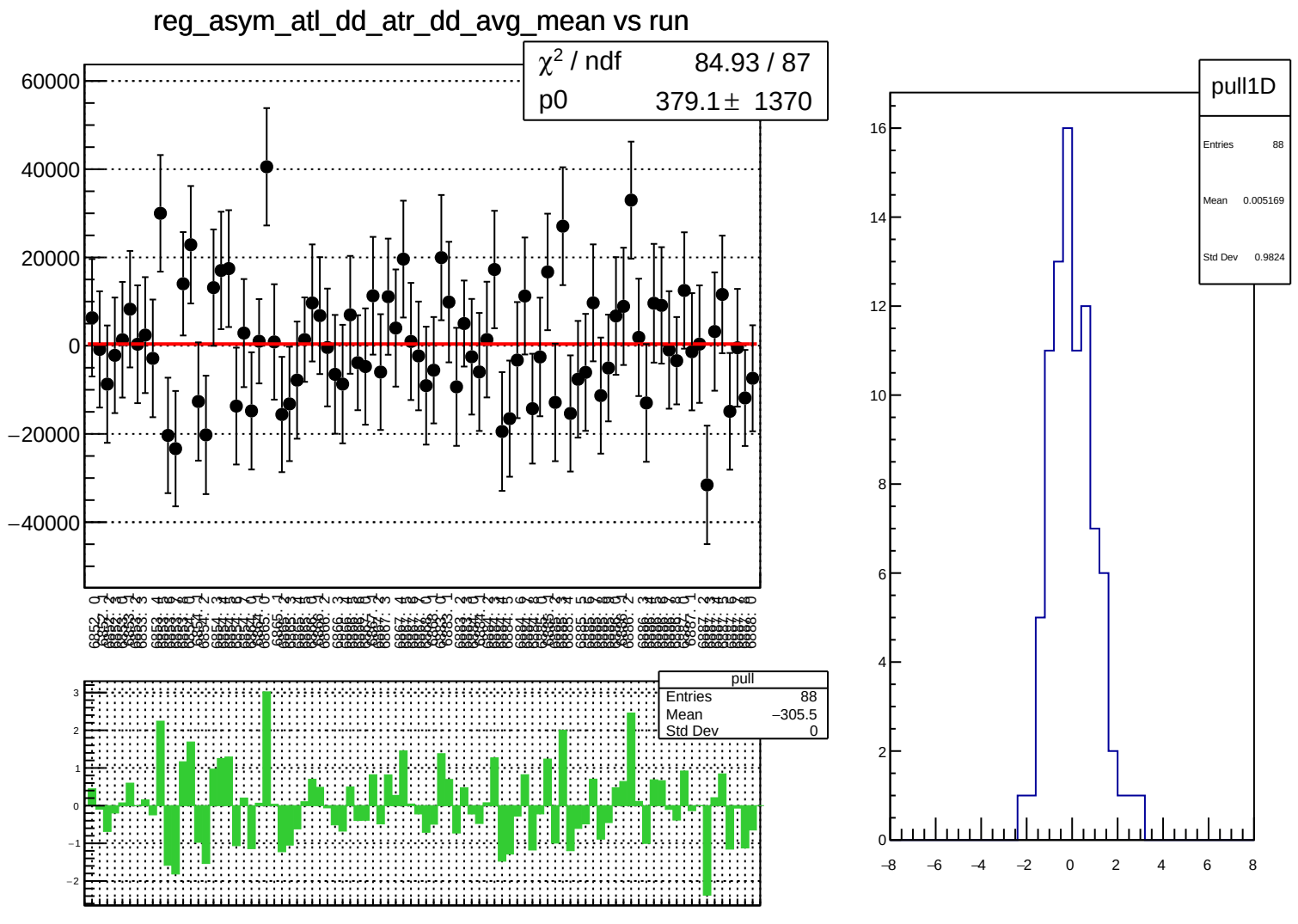

pull1D
Entries 88
Mean −0.005357
Std Dev 0.9331

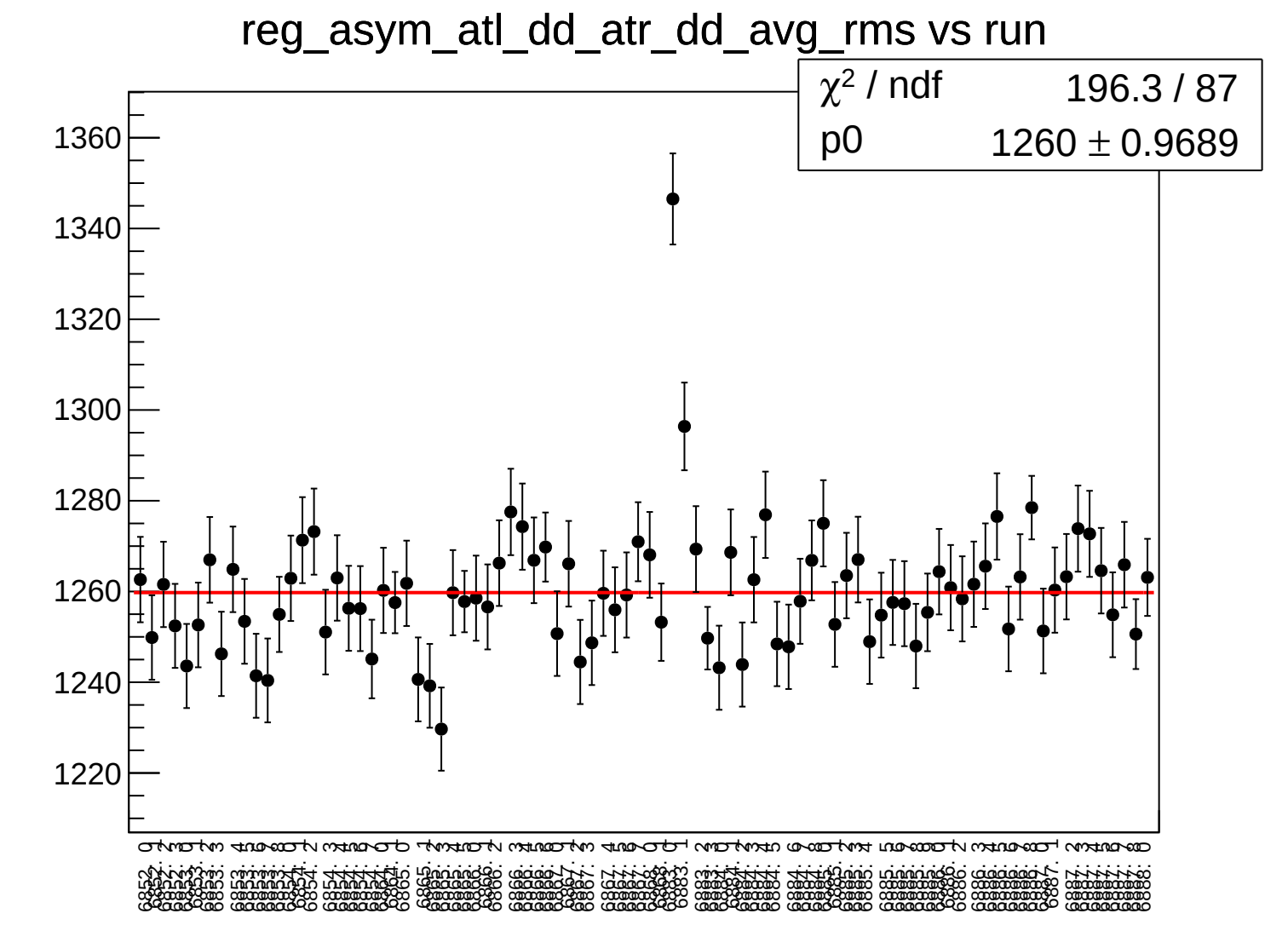

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.508e+04 / 87
p0 330 ± 0.2549
450
400
350
300
250

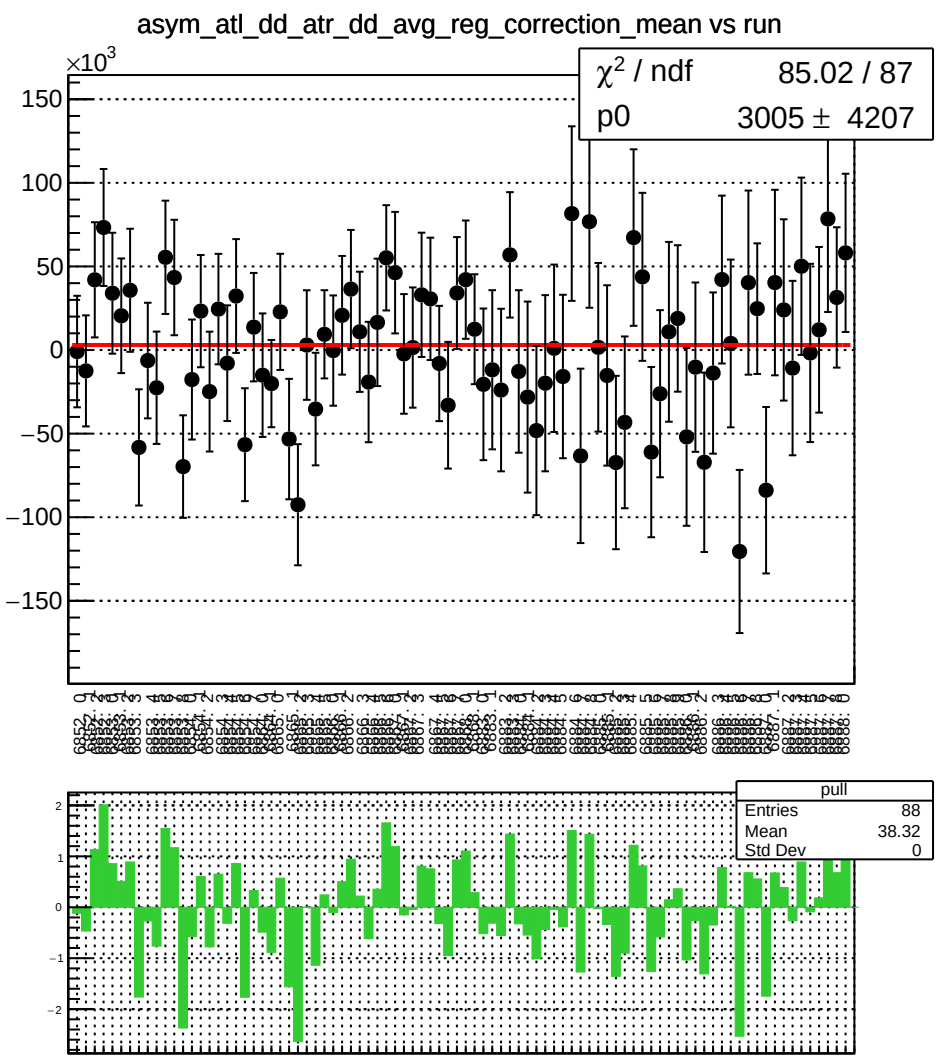

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.53 / 87
p0 1.579e−14 ± 1.003e−13
pull
Entries 88
Mean 23.86
Std Dev 22.75

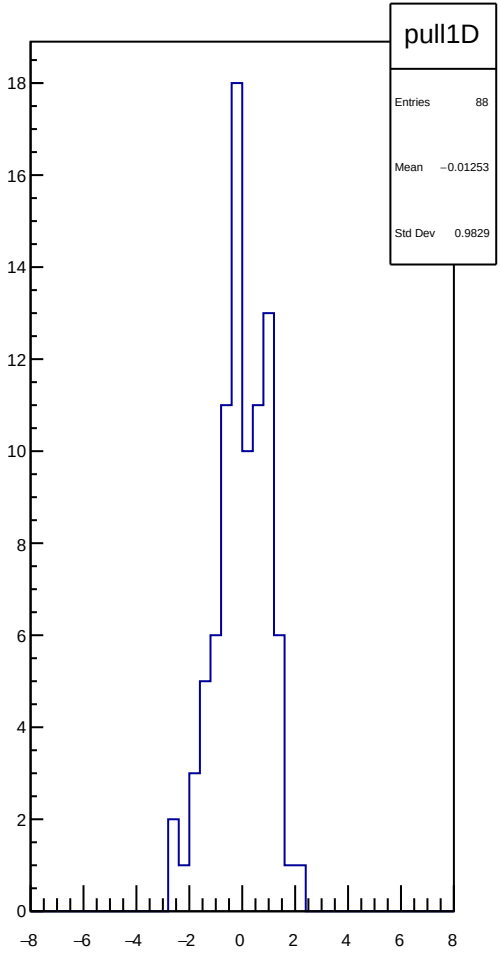

pull1D
Entries 88
Mean 0.03507
Std Dev 0.8622

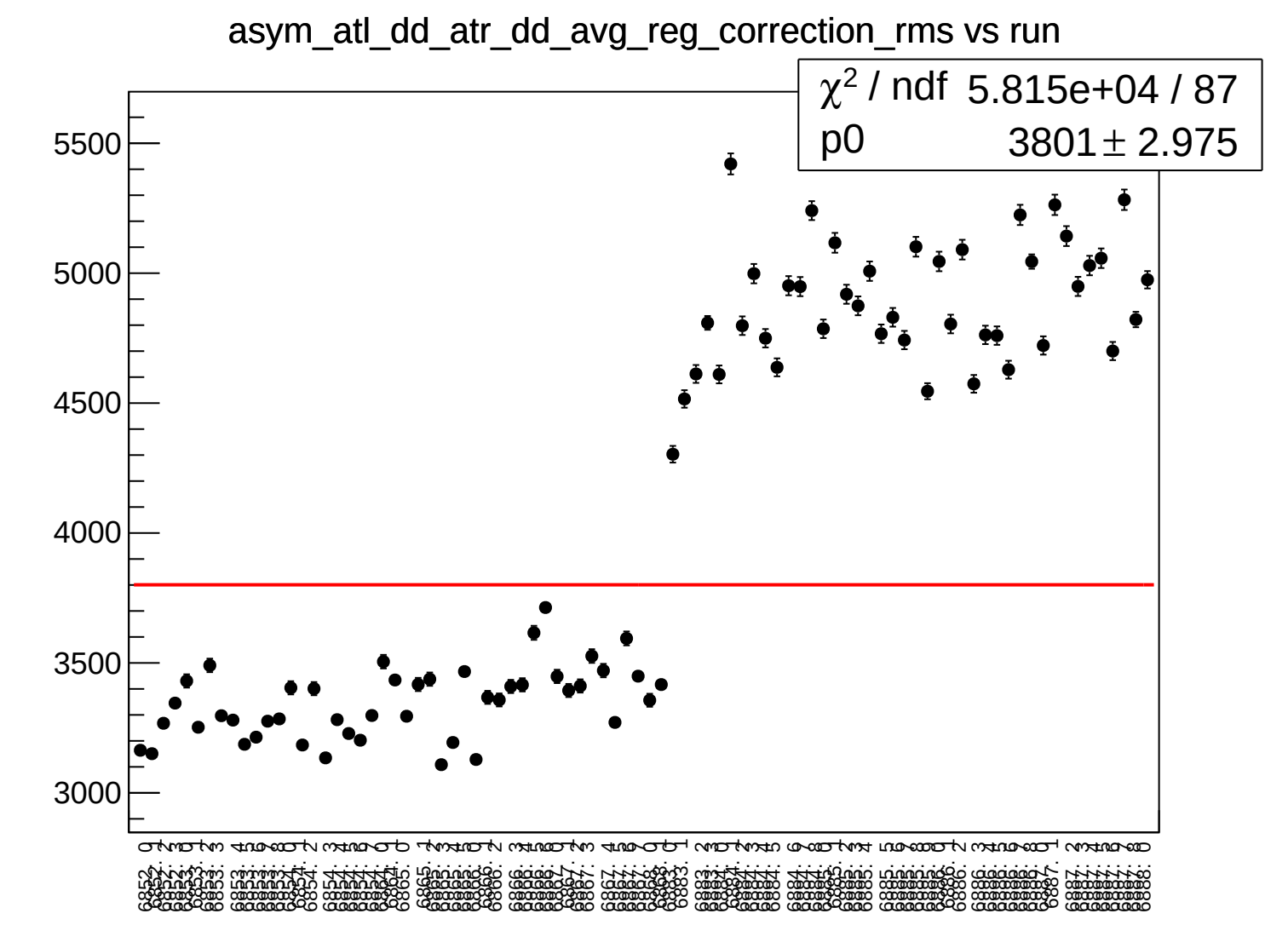

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.664e+05 / 87
p0 7.522e−11 ± 7.094e−14
0.5
0.4
0.3
0.2
0.1

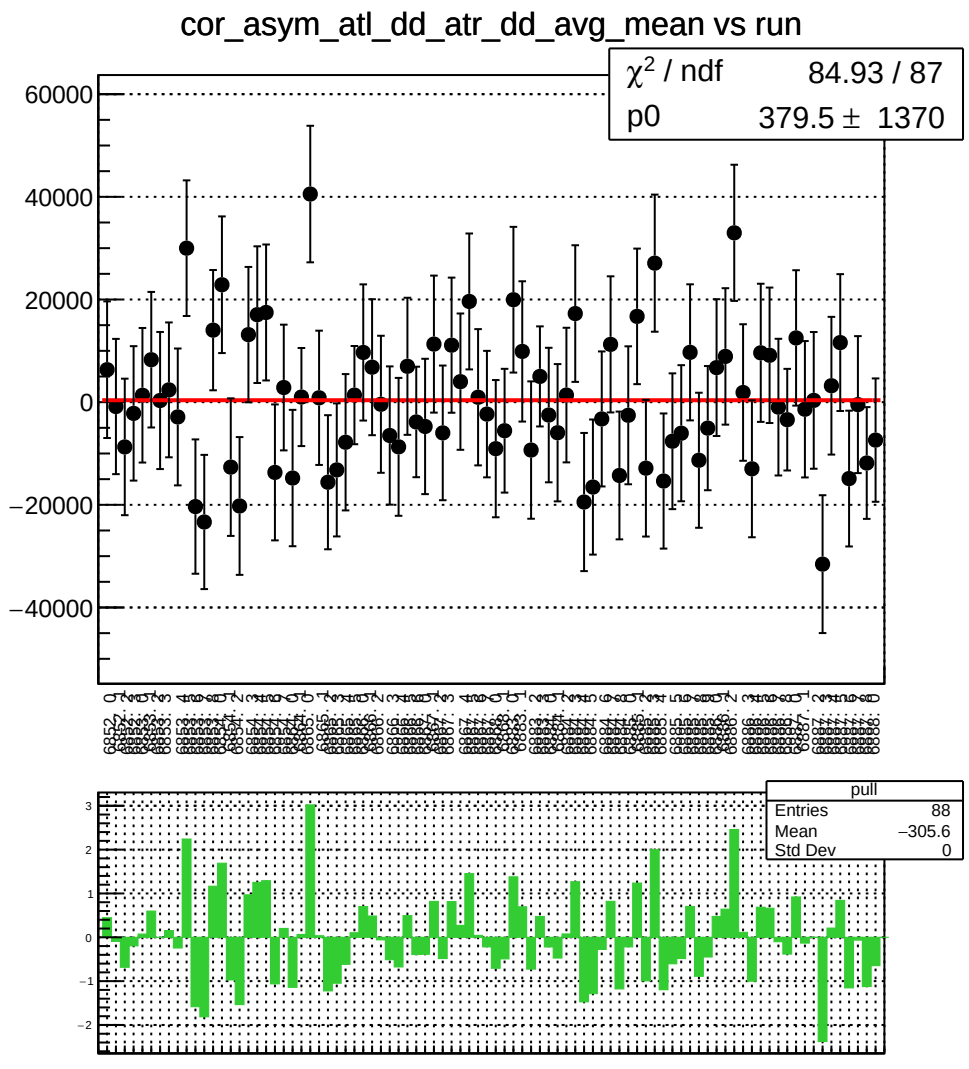

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 84.93 / 87
p0 379.1± 1370
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −305.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.005169
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

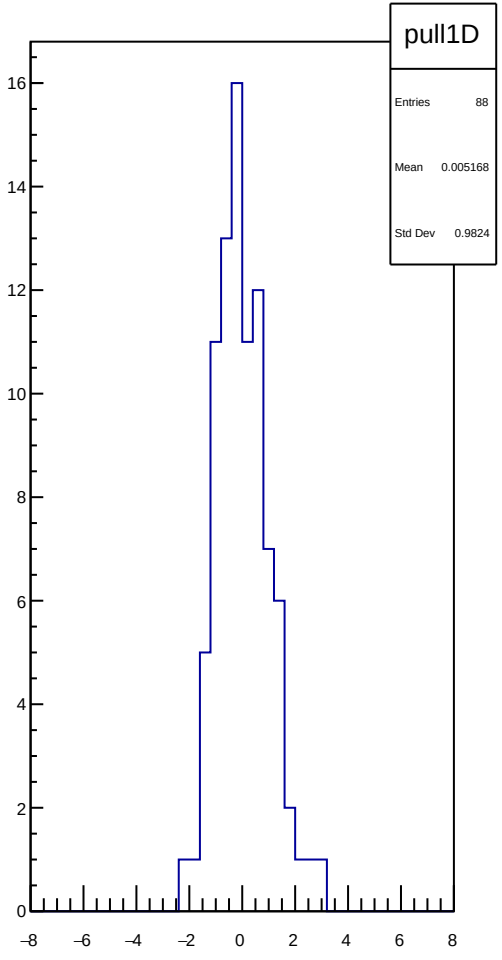

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 196.3 / 87
p0 1260 ± 0.9689
1360
1340
1320
1300
1280
1260
1240
1220

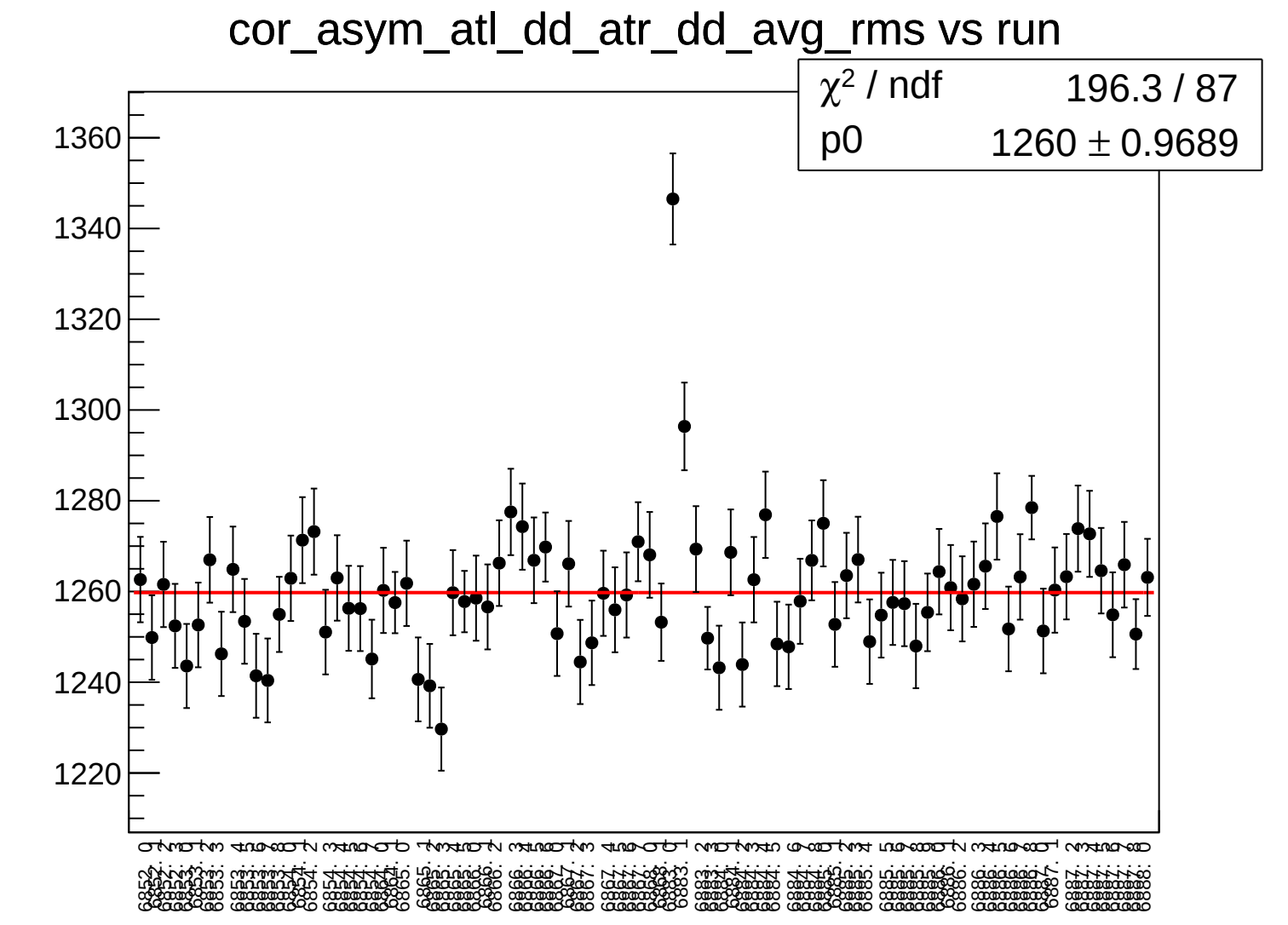

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 85.02 / 87
p0 3005 ± 4207
pull
Entries 88
Mean 38.32
Std Dev 0

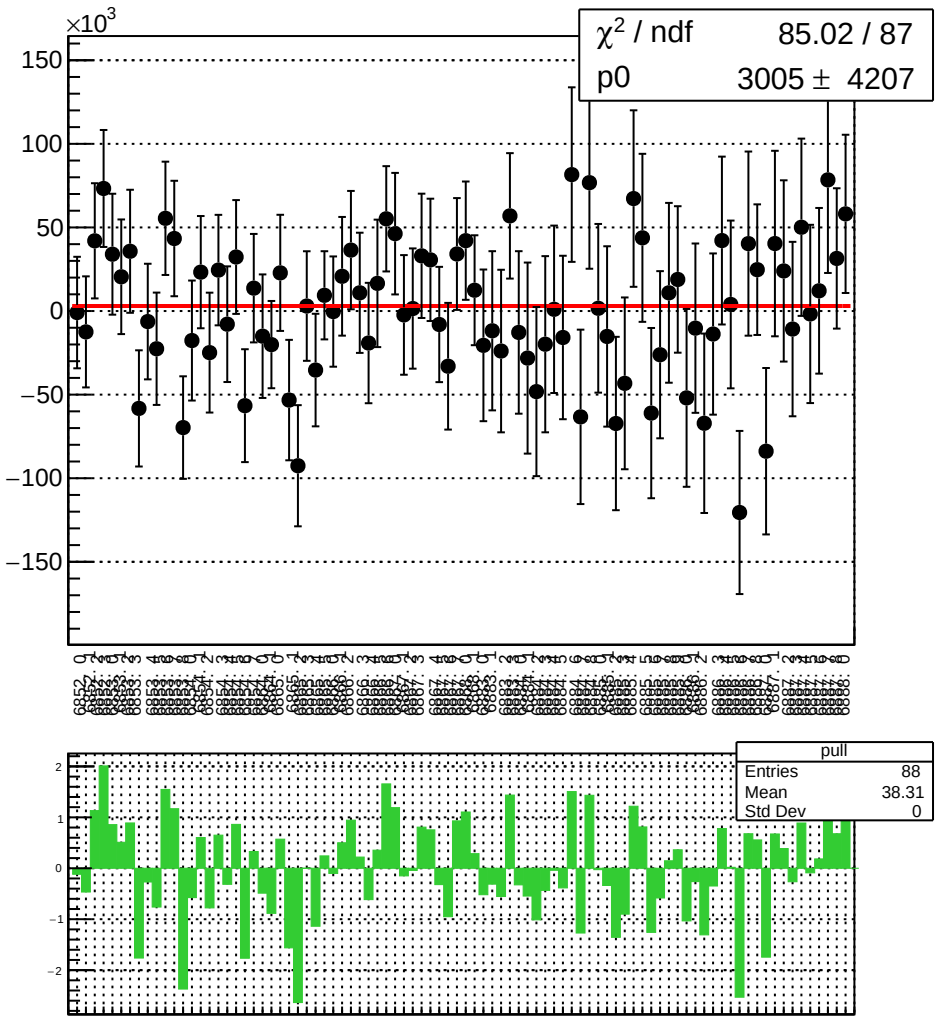

pull1D
Entries 88
Mean −0.01253
Std Dev 0.9829

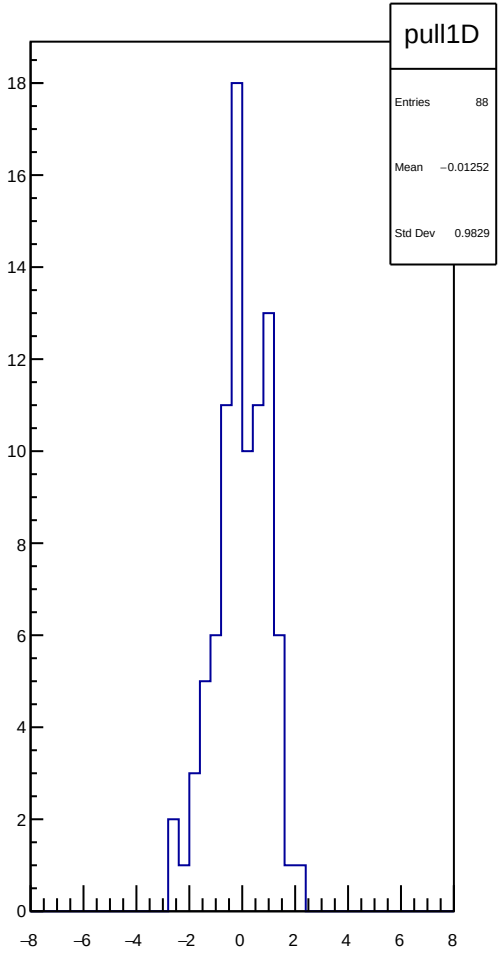

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 5.815e+04 / 87
p0 3801 ± 2.975
5500
5000
4500
4000
3500
3000

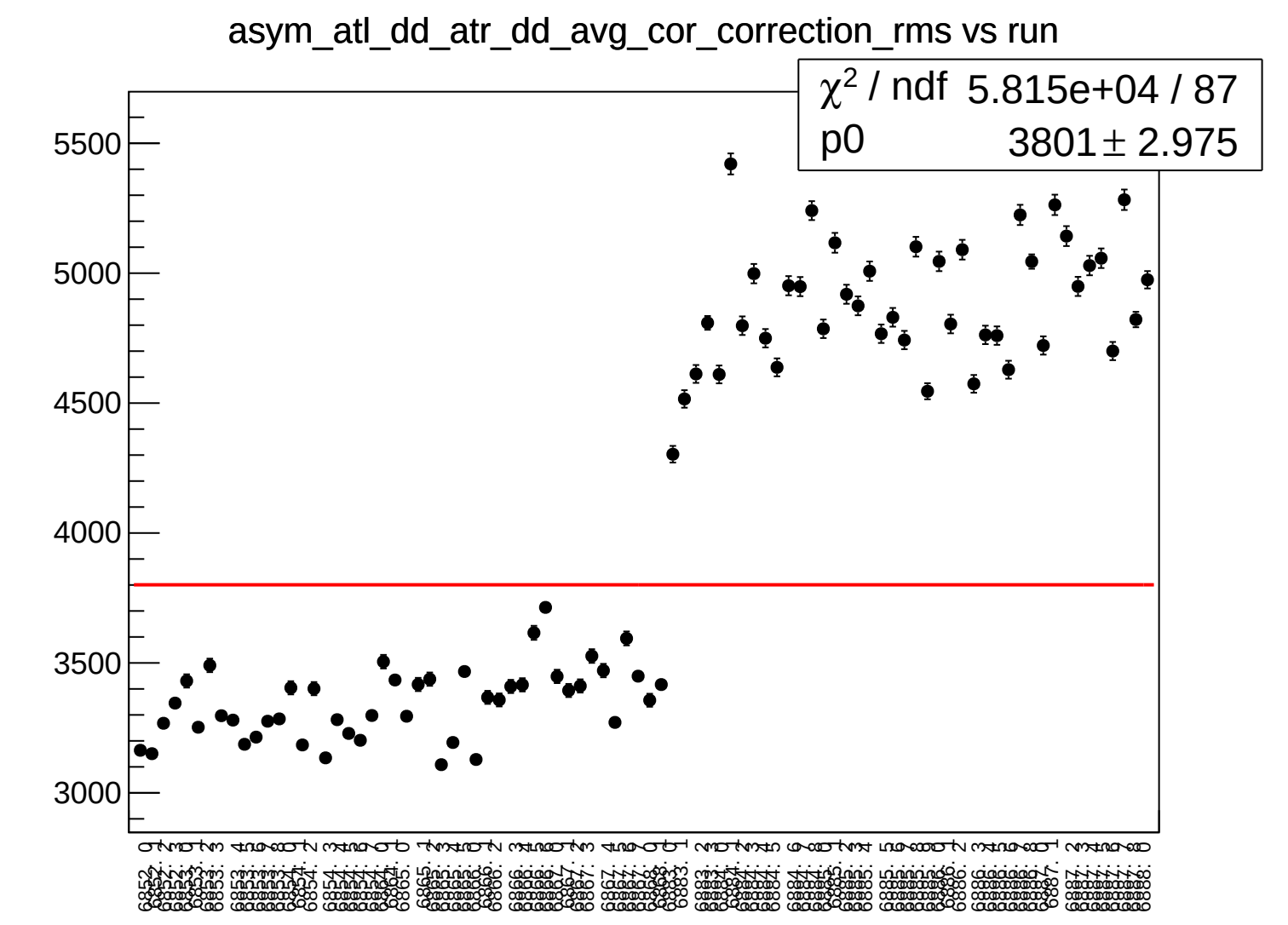

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 84.93 / 87
p0 379.5 ± 1370
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −305.6
Std Dev 0
3
2
1
0
−1
−2

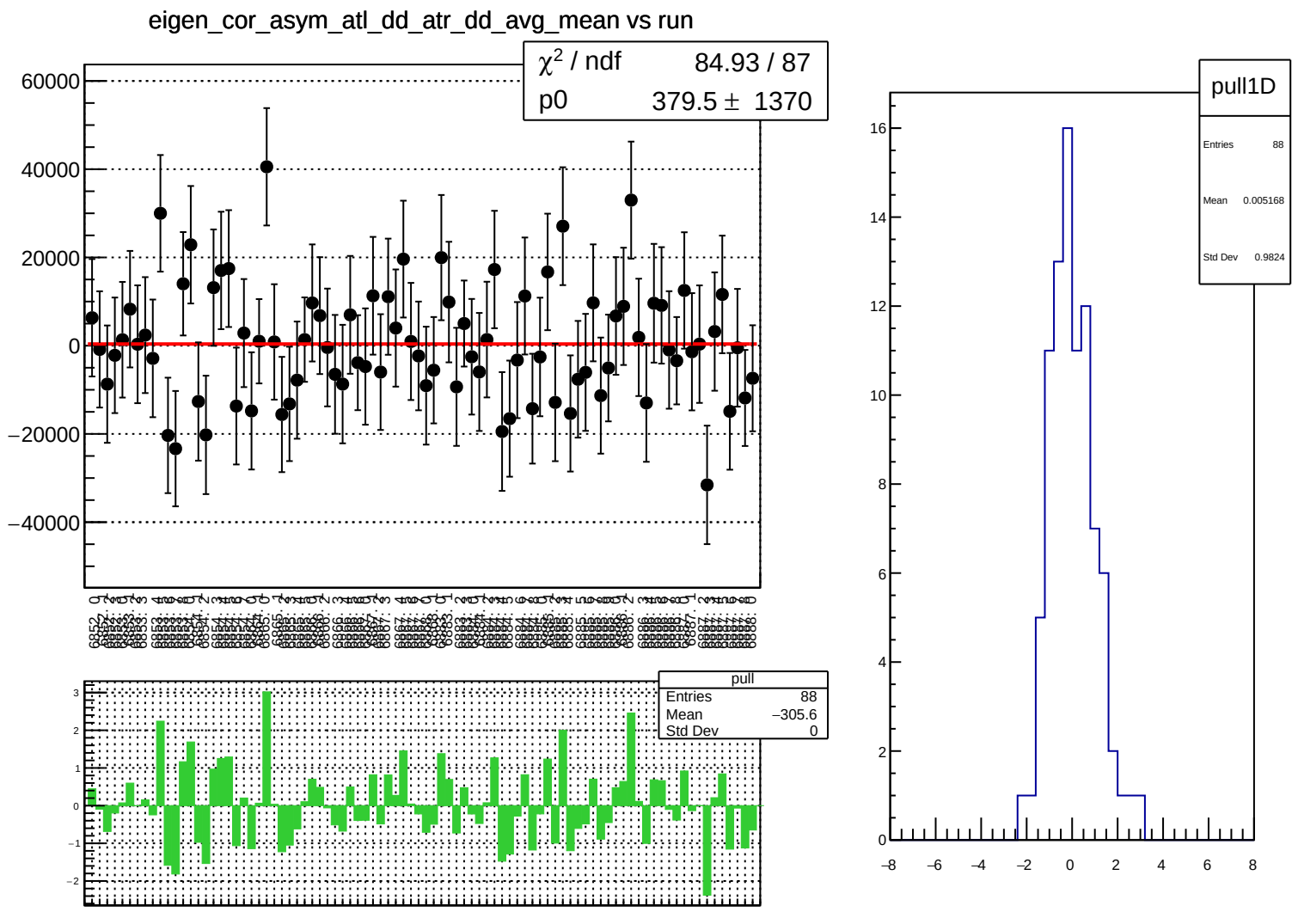

pull1D
Entries 88
Mean 0.005168
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

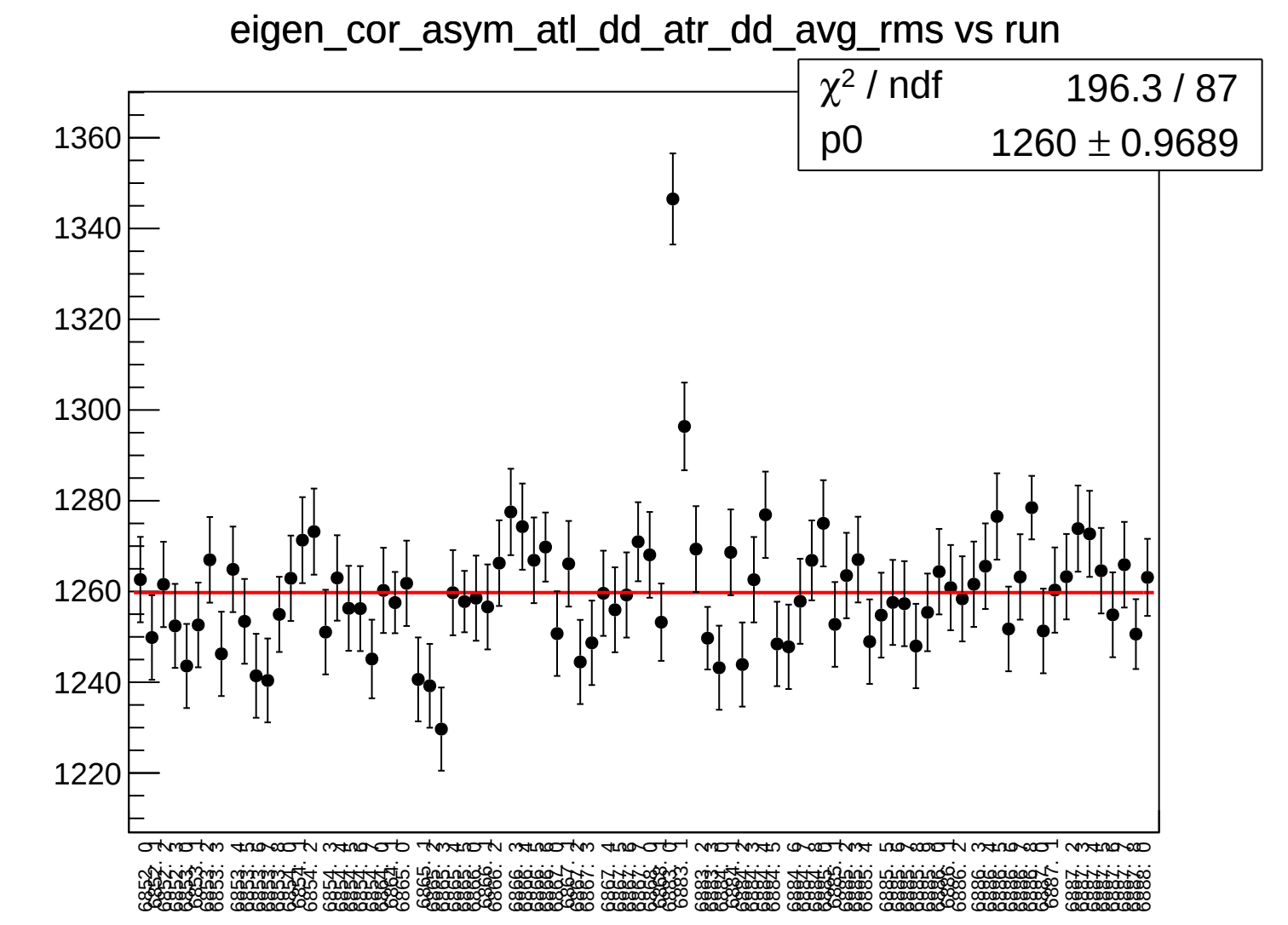

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 196.3 / 87
p0 1260 ± 0.9689
1360
1340
1320
1300
1280
1260
1240
1220

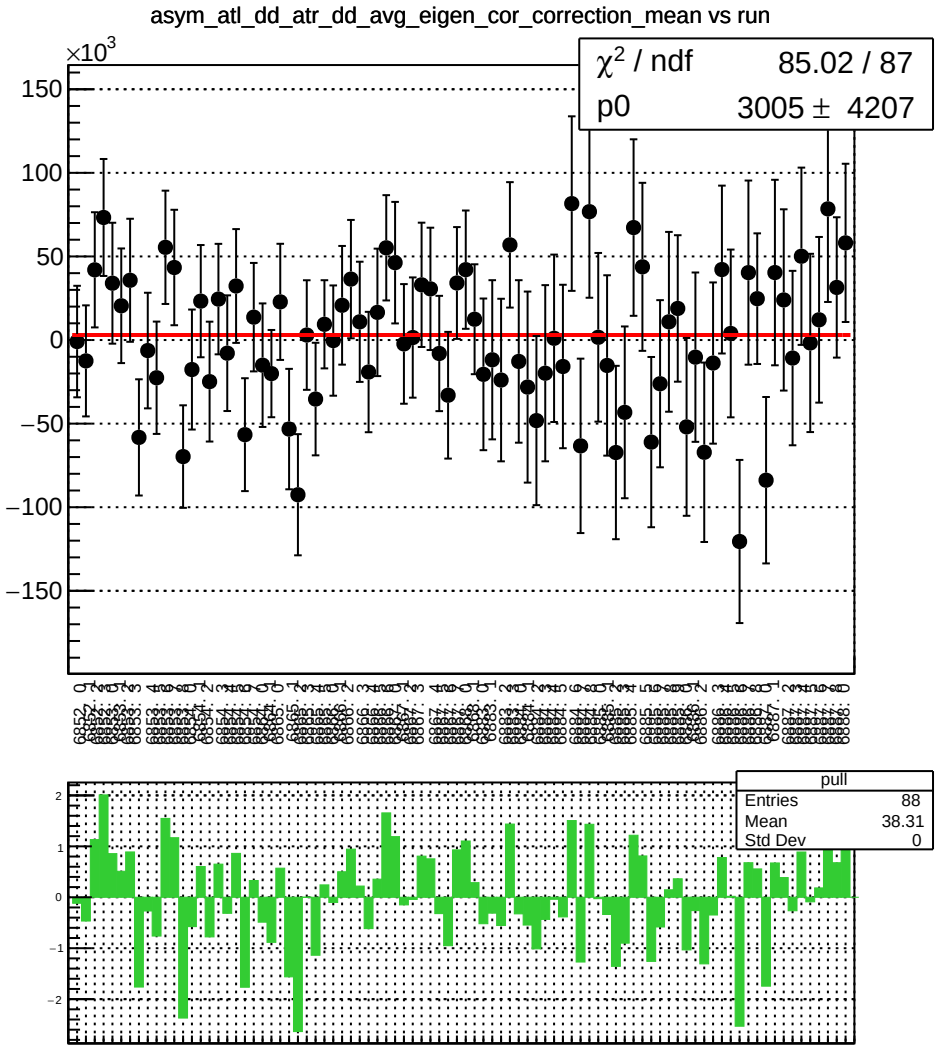

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.02 / 87
p0 3005 ± 4207
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 38.31
Std Dev 0
2
1
0
−1
−2

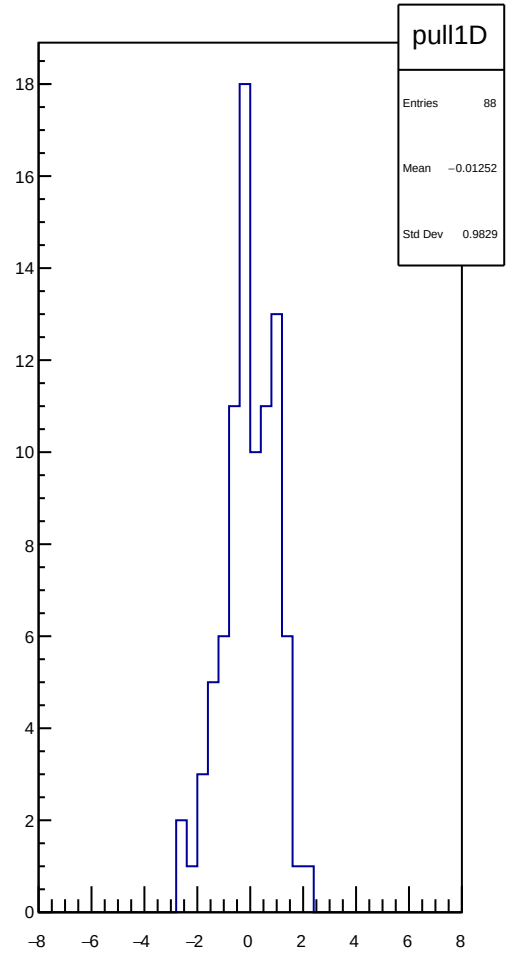

pull1D
Entries 88
Mean −0.01252
Std Dev 0.9829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

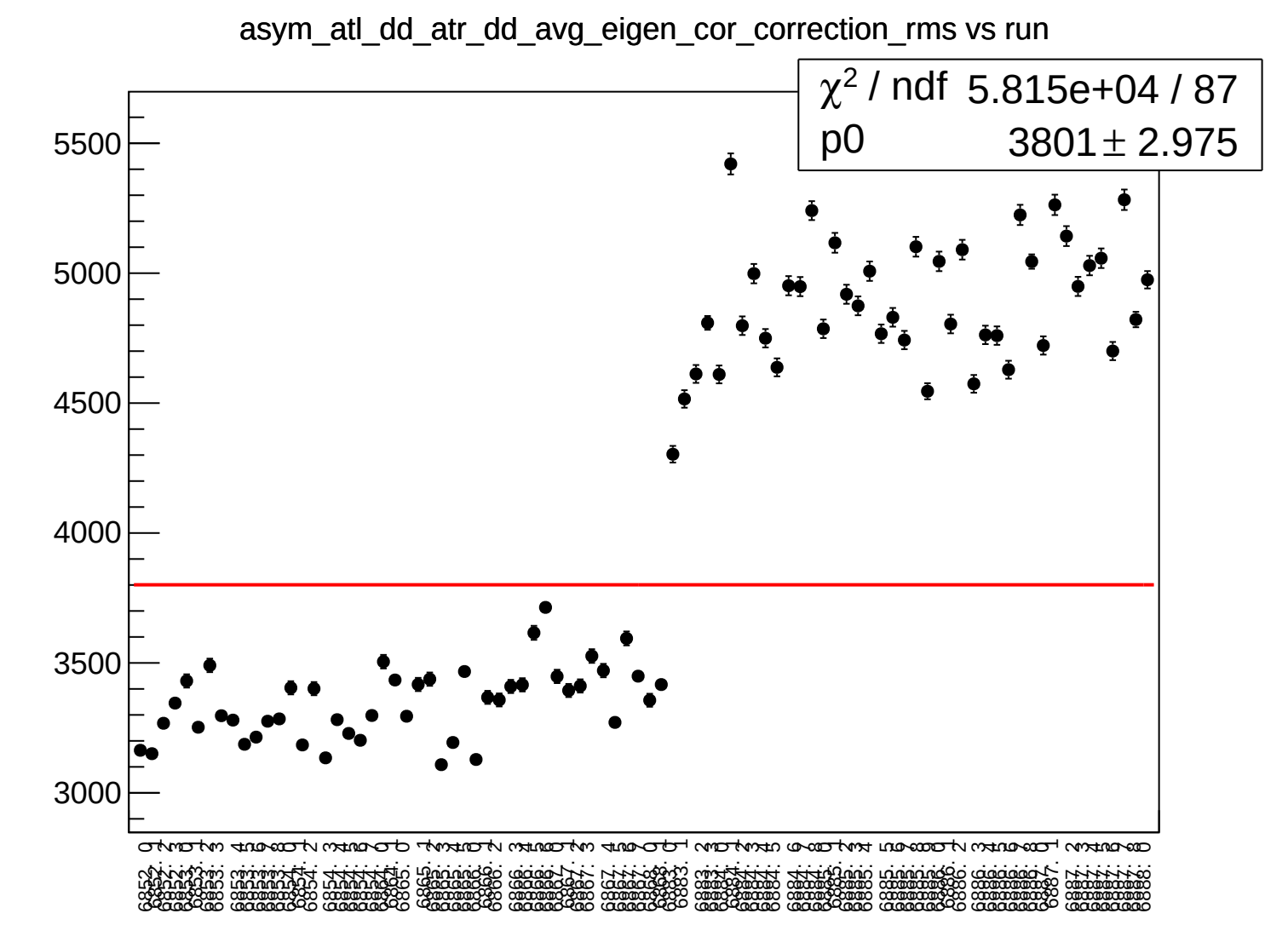

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 5.815e+04 / 87
p0 3801 ± 2.975
5500
5000
4500
4000
3500
3000

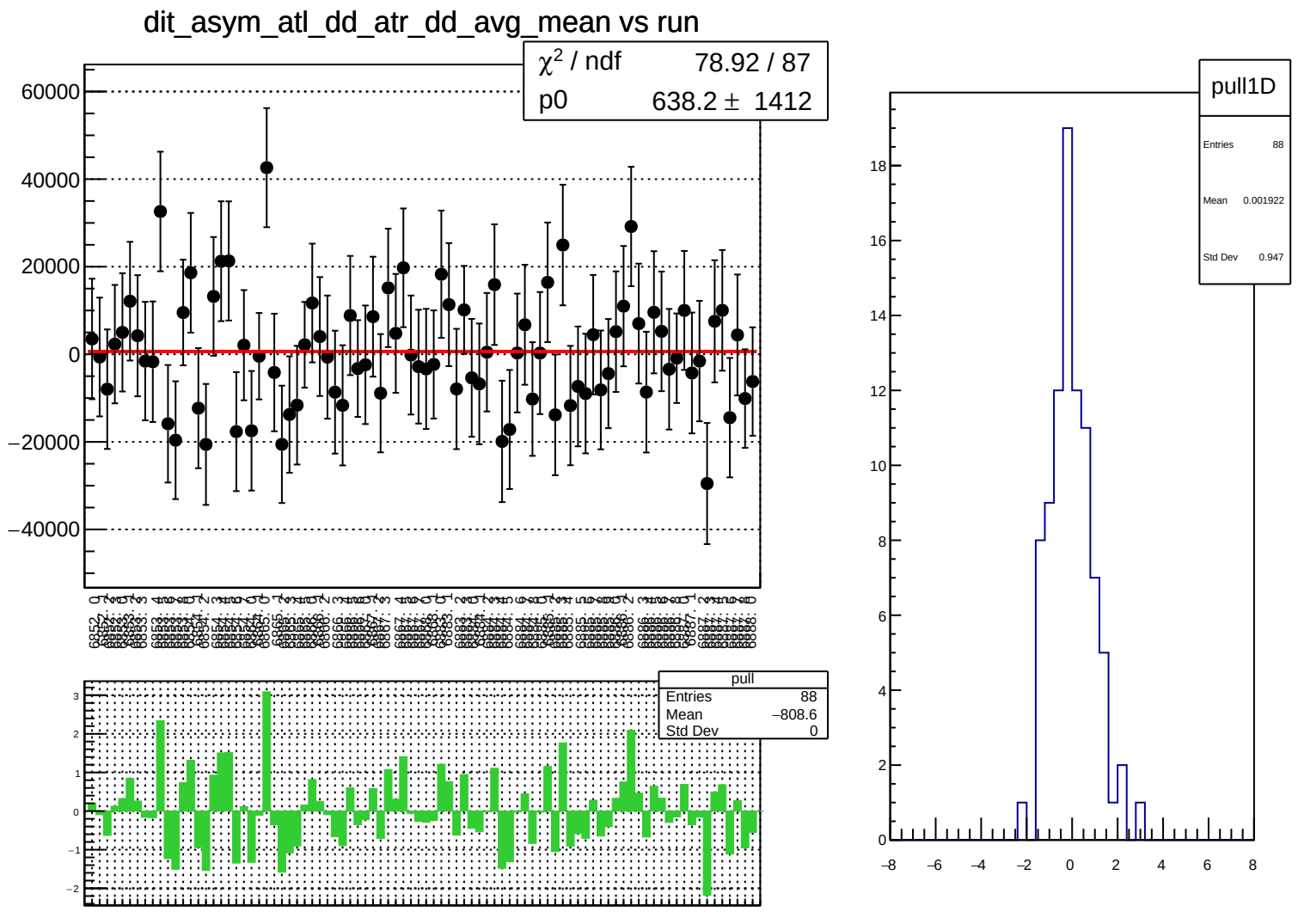

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 84.93 / 87
p0 379.5 ± 1370
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −305.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.005168
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

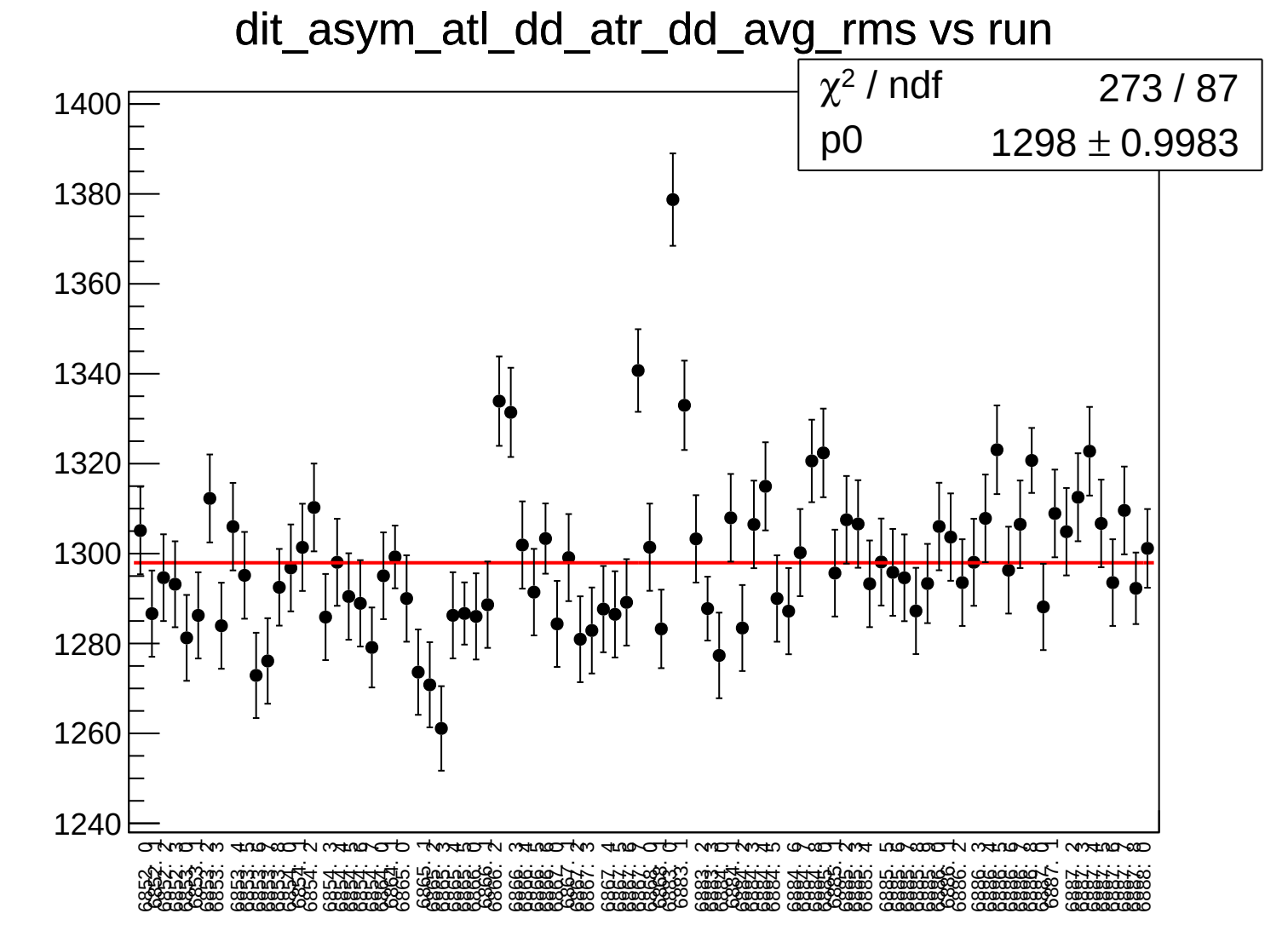

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 196.3 / 87
p0 1260 ± 0.9689
1360
1340
1320
1300
1280
1260
1240
1220

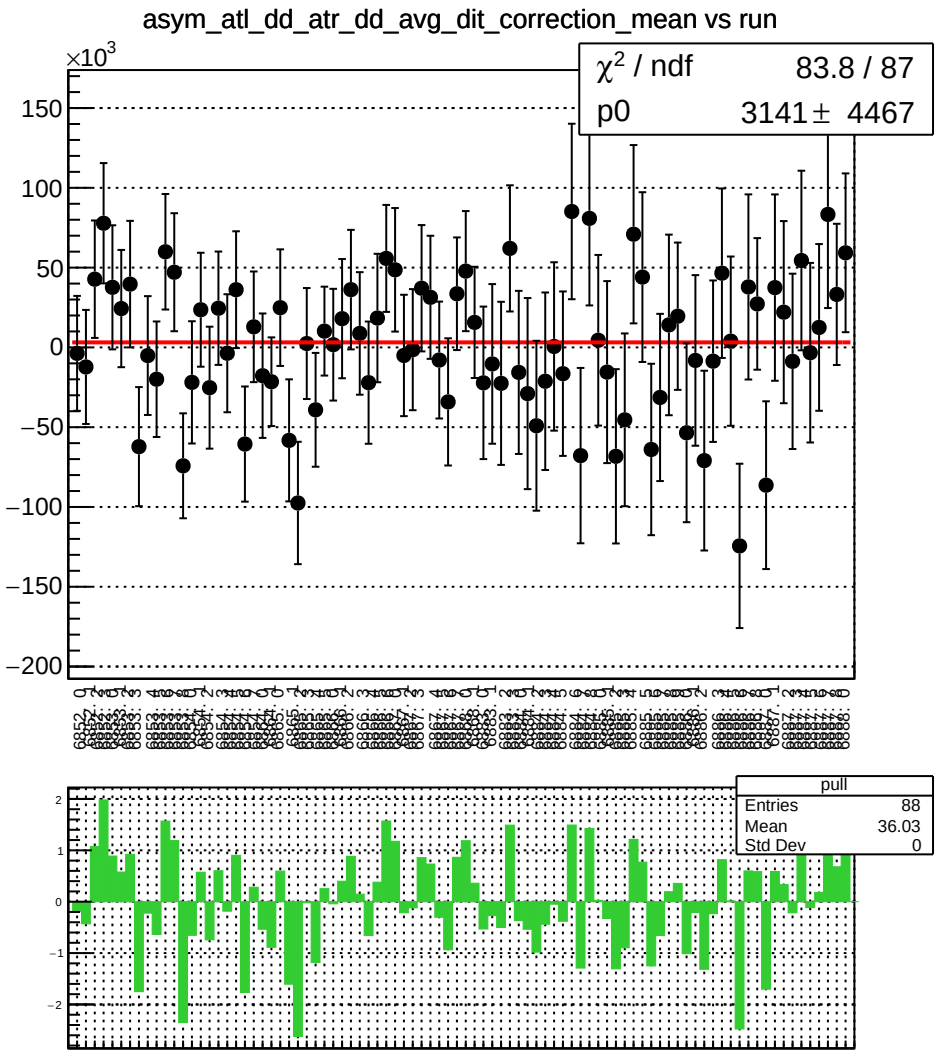

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.02 / 87
p0 3005 ± 4207
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 38.31
Std Dev 0
2
1
0
−1
−2

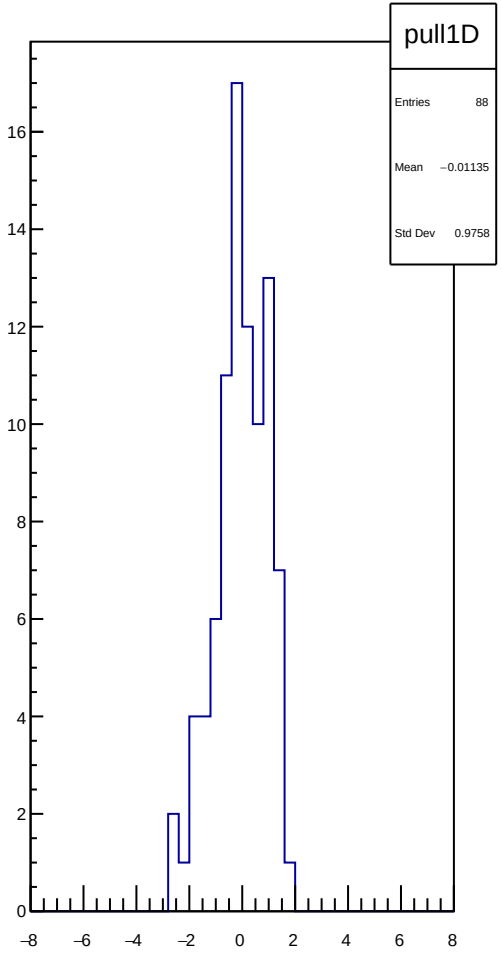

pull1D
Entries 88
Mean −0.01252
Std Dev 0.9829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

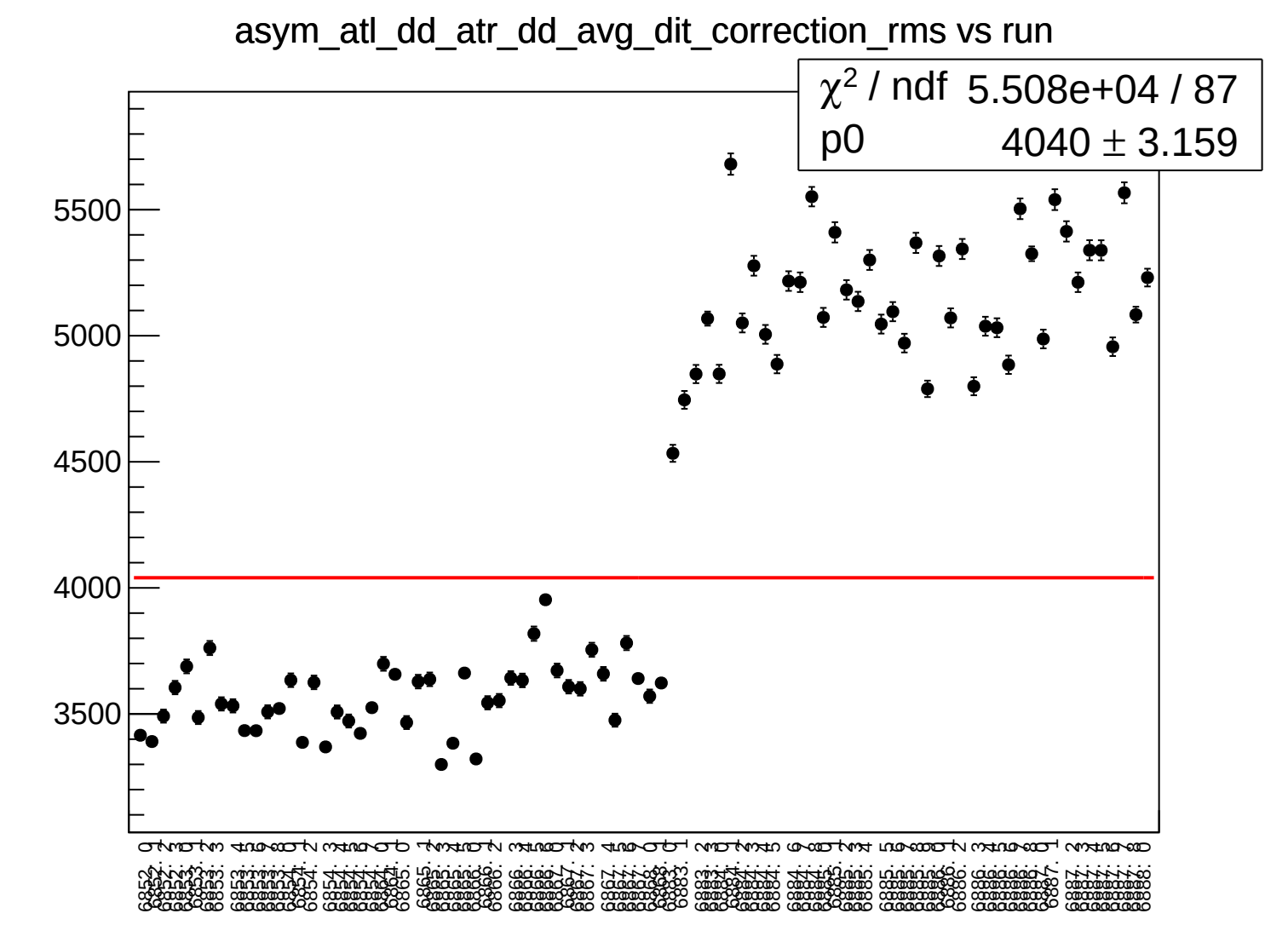

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.815e+04 / 87
p0 3801 ± 2.975
5500
5000
4500
4000
3500
3000

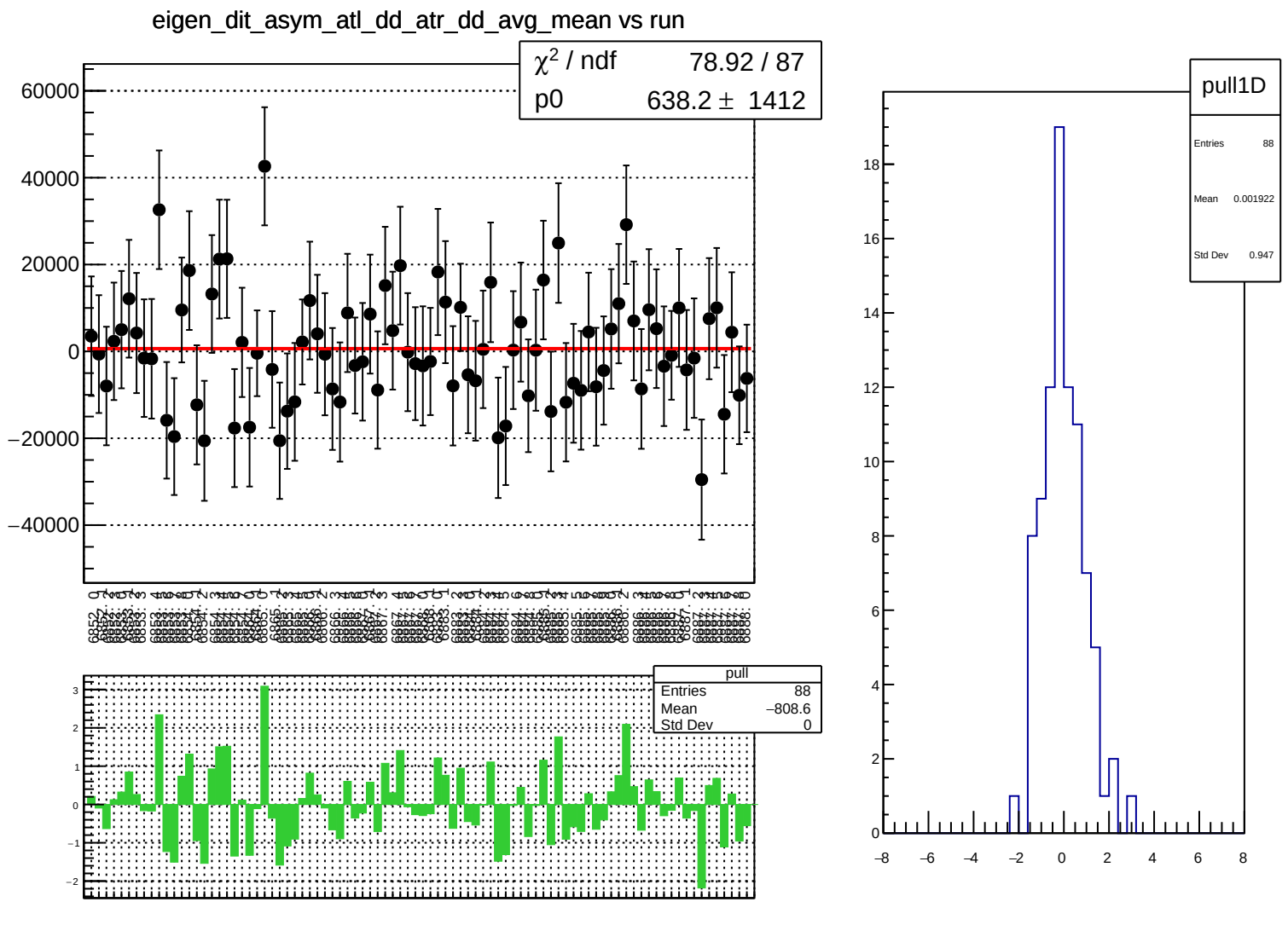

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 78.92 / 87
p0 638.2 ± 1412
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −808.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001922
Std Dev 0.947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

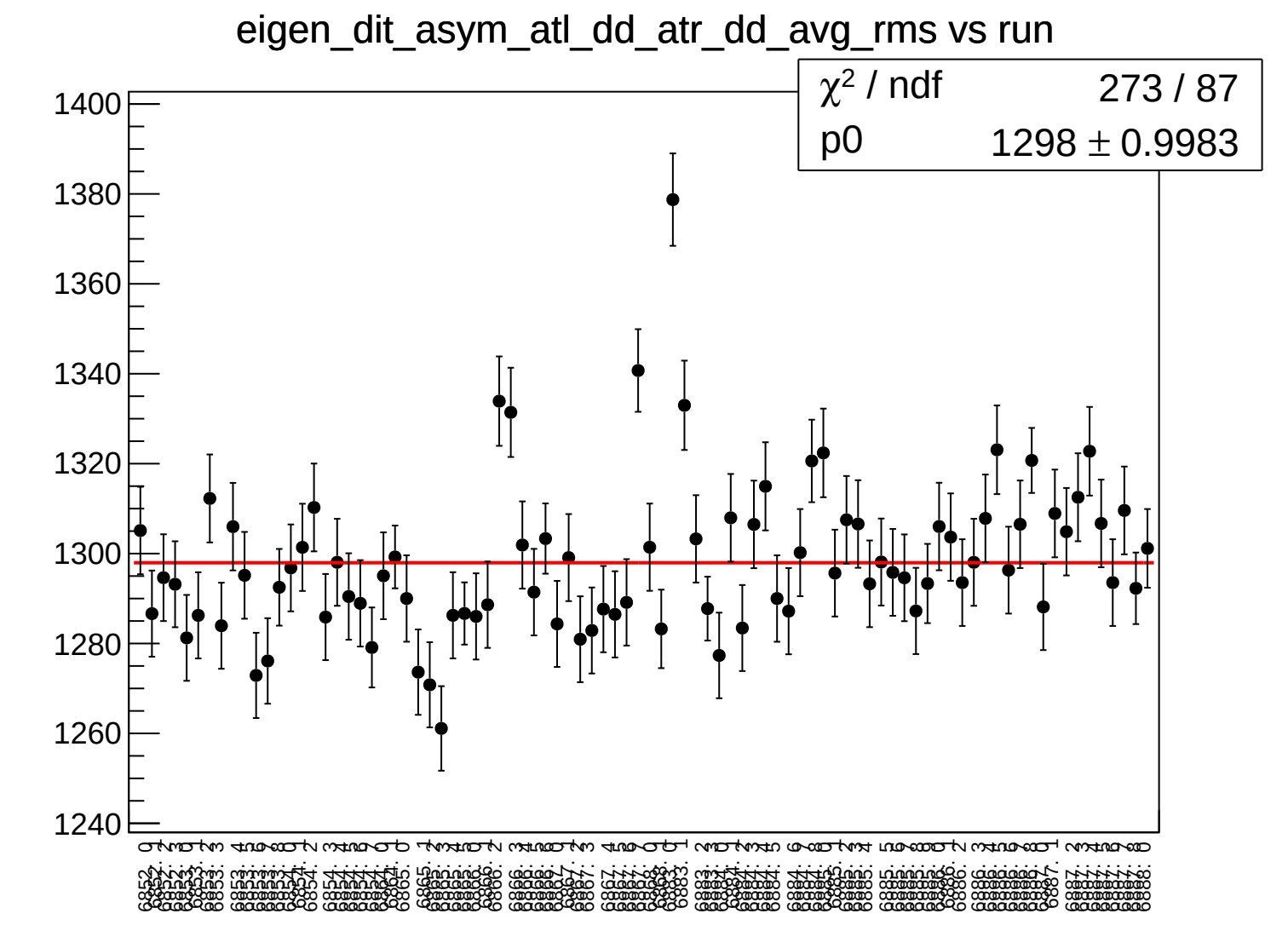

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 273 / 87
p0 1298 ± 0.9983
1400
1380
1360
1340
1320
1300
1280
1260
1240

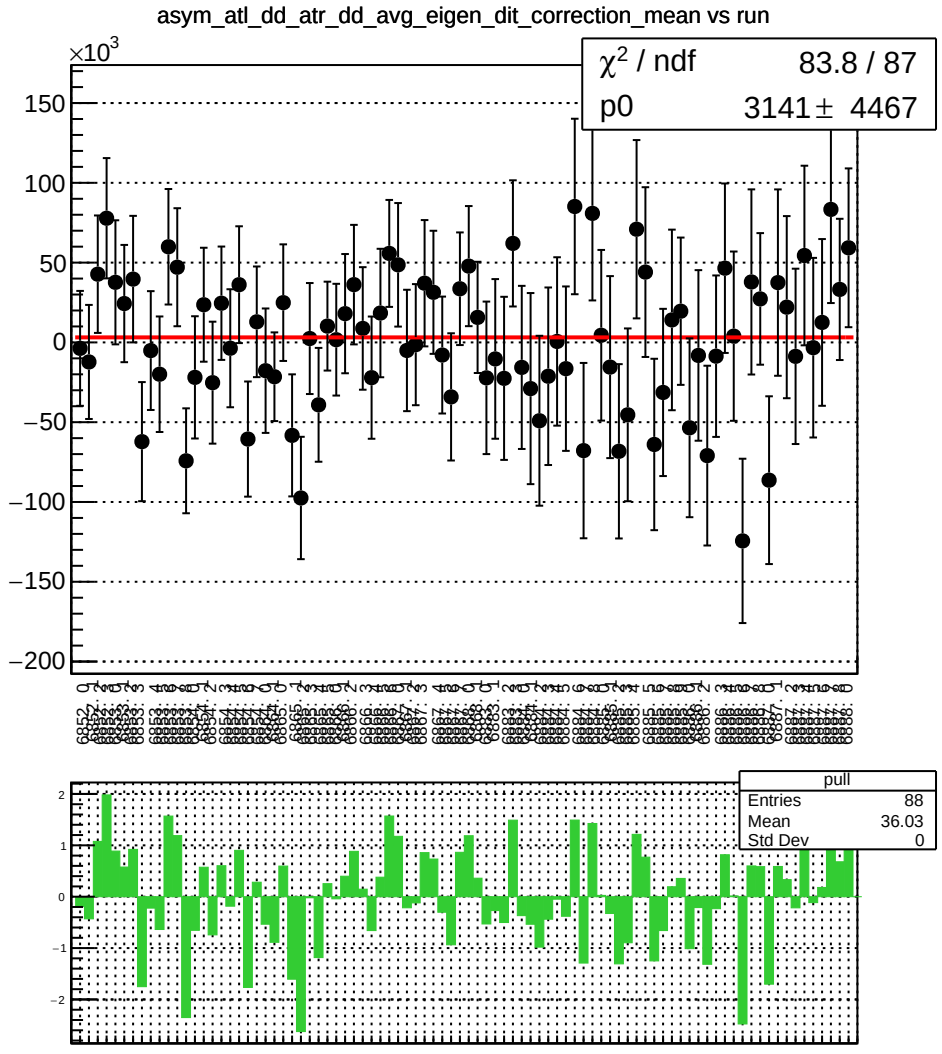

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 83.8 / 87
p0 3141 ± 4467
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 36.03
Std Dev 0
2
1
0
−1
−2

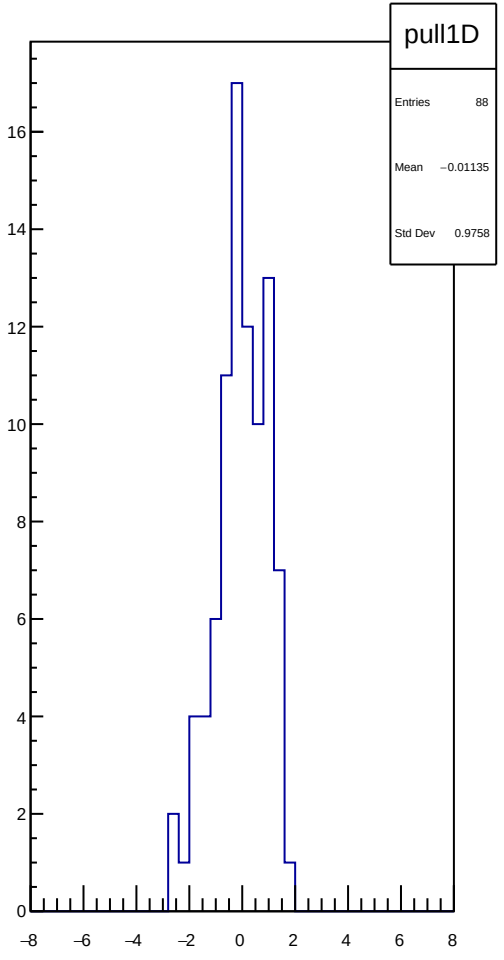

pull1D
Entries 88
Mean −0.01135
Std Dev 0.9758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

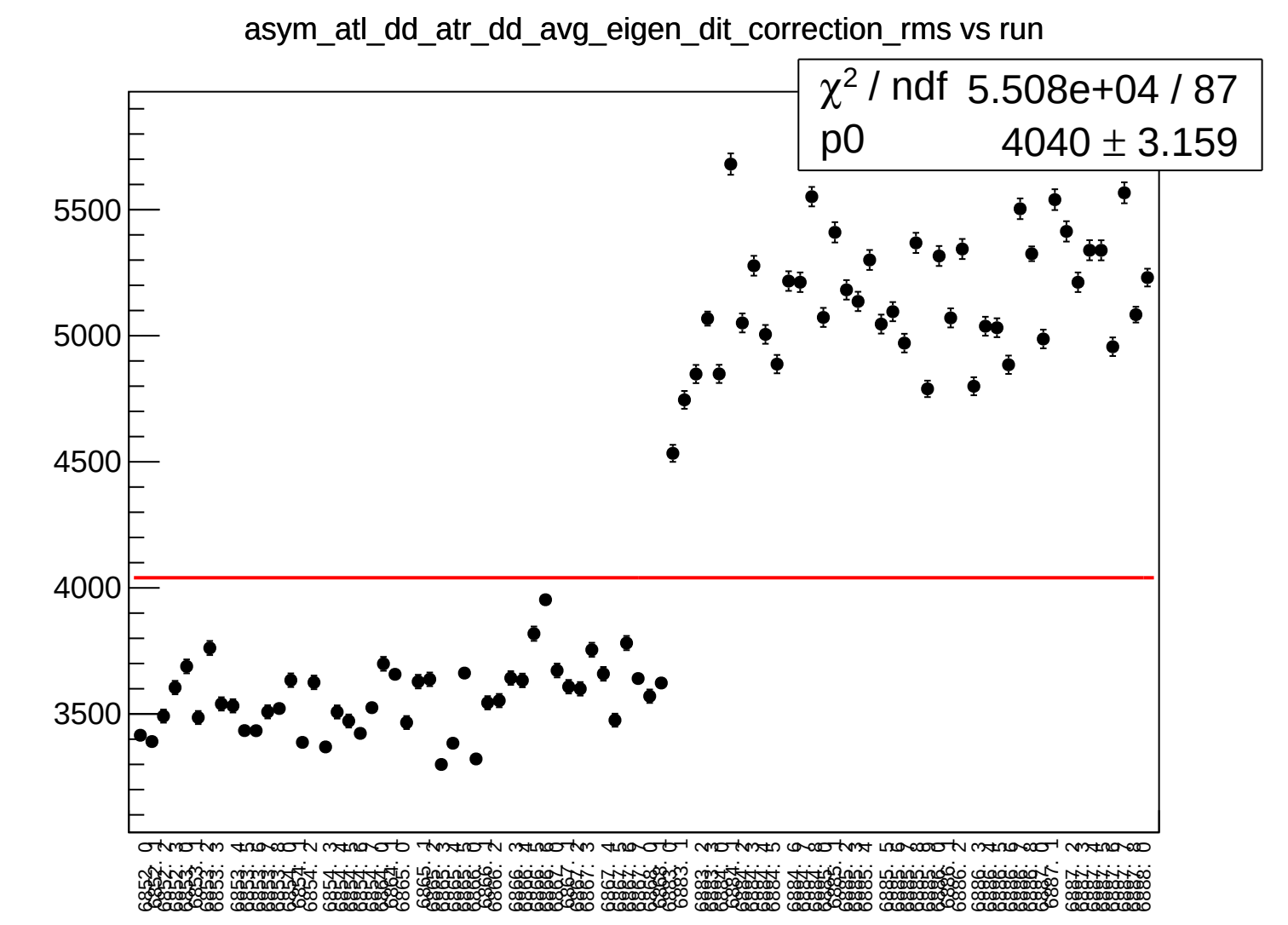

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 5.508e+04 / 87
p0 4040 ± 3.159
5500
5000
4500
4000
3500

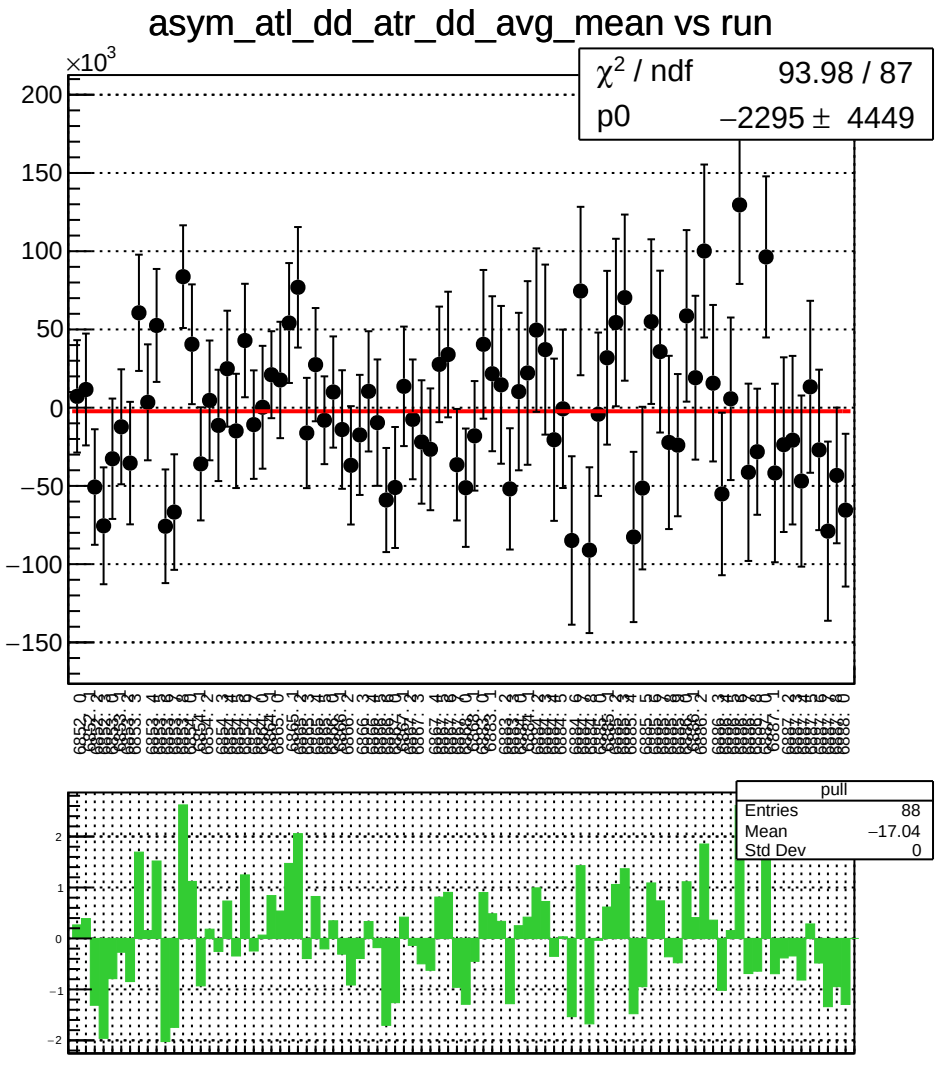

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 78.92 / 87
p0 638.2 ± 1412
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −808.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001922
Std Dev 0.947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

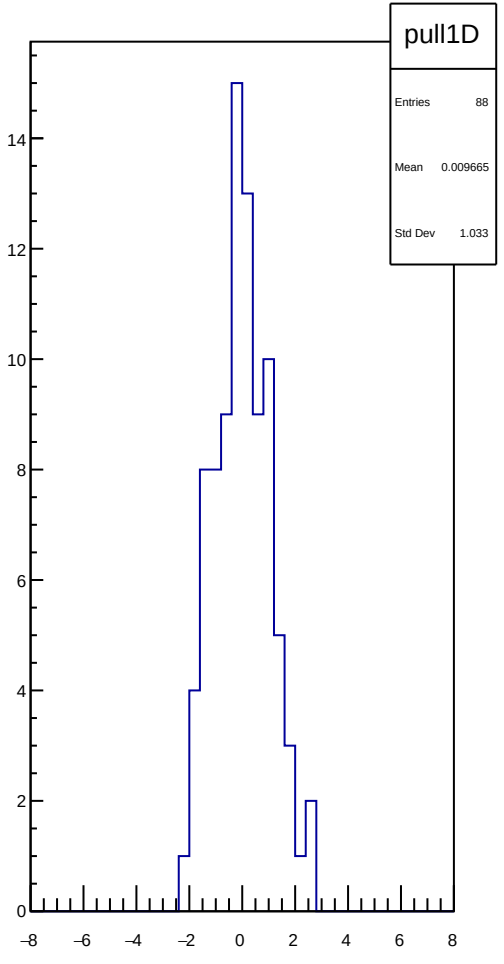

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 273 / 87
p0 1298 ± 0.9983
1400
1380
1360
1340
1320
1300
1280
1260
1240

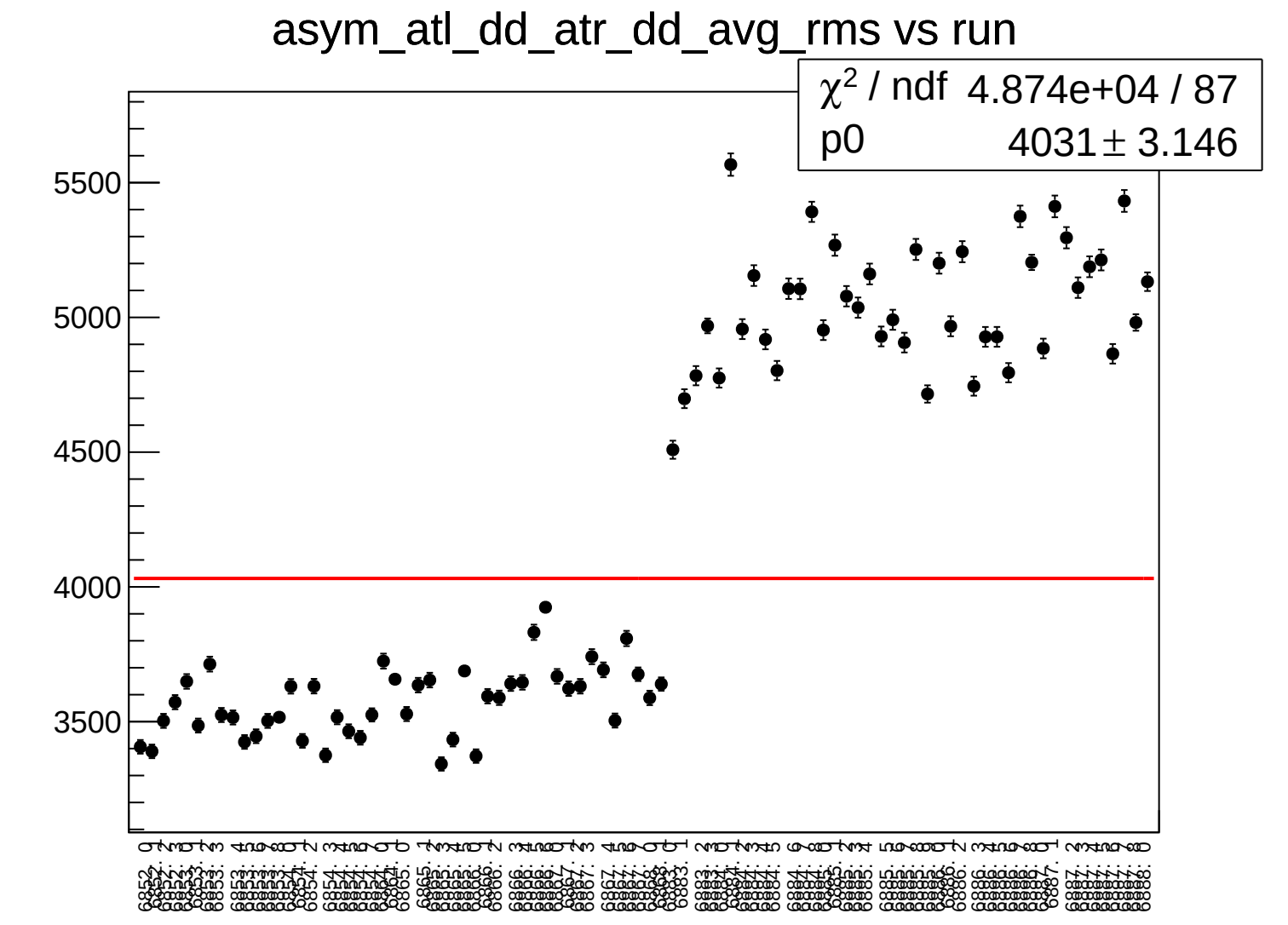

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.8 / 87
p0 3141 ± 4467
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 36.03
Std Dev 0
2
1
0
−1
−2

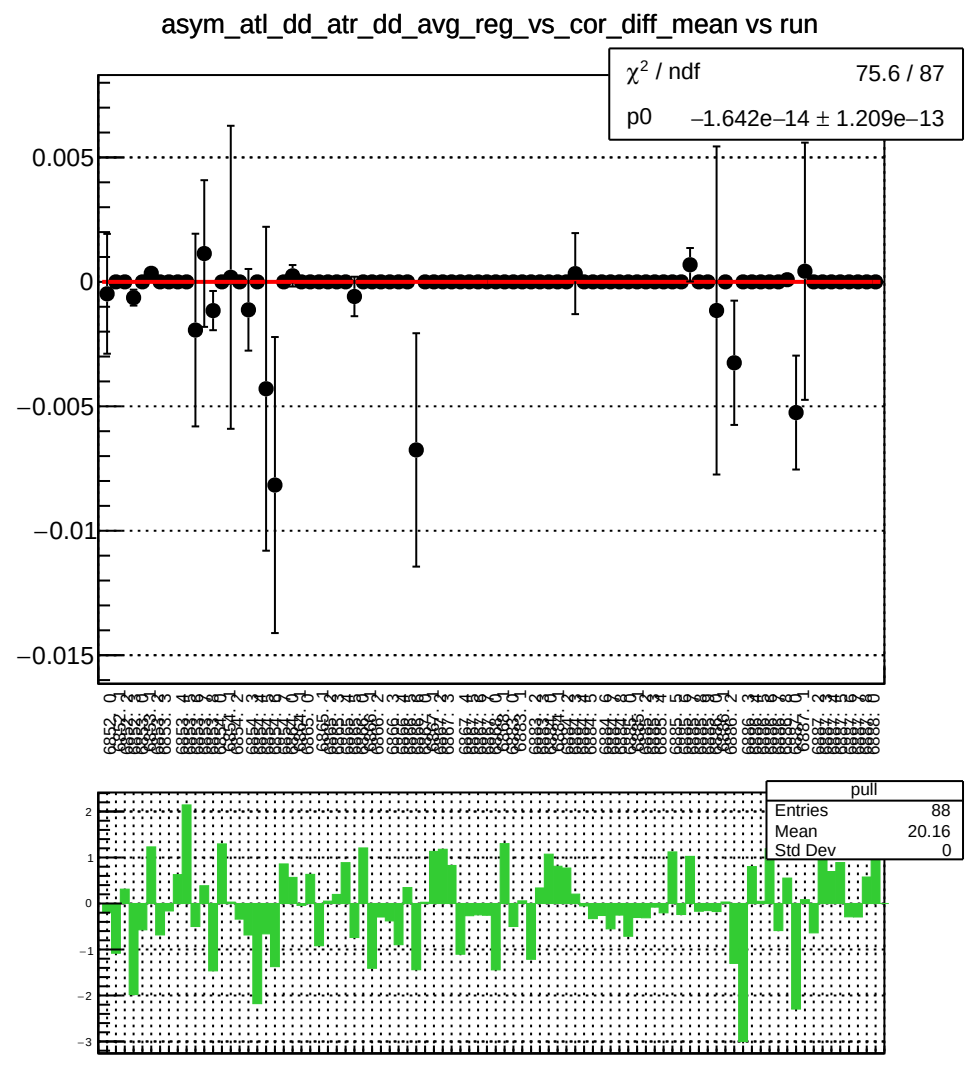

pull1D
Entries 88
Mean −0.01135
Std Dev 0.9758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

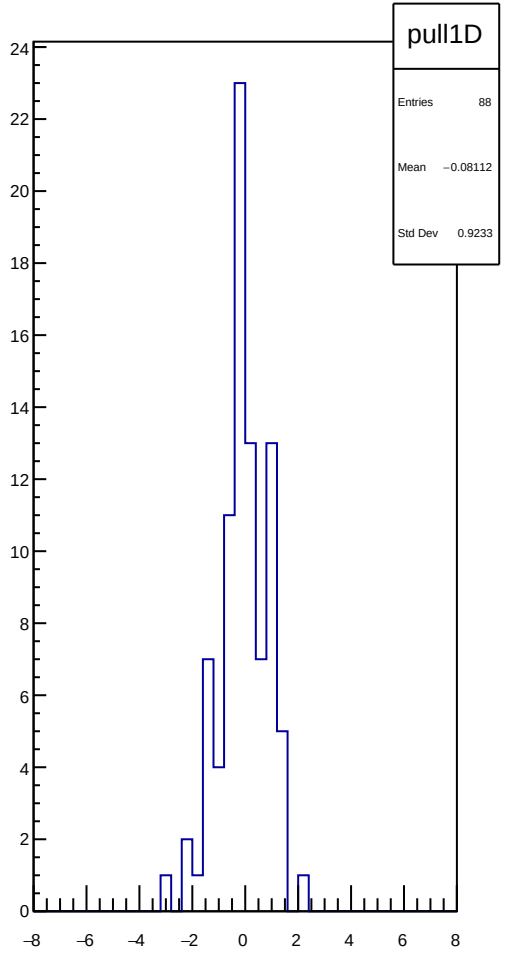

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.508e+04 / 87
p0 4040 ± 3.159
5500
5000
4500
4000
3500

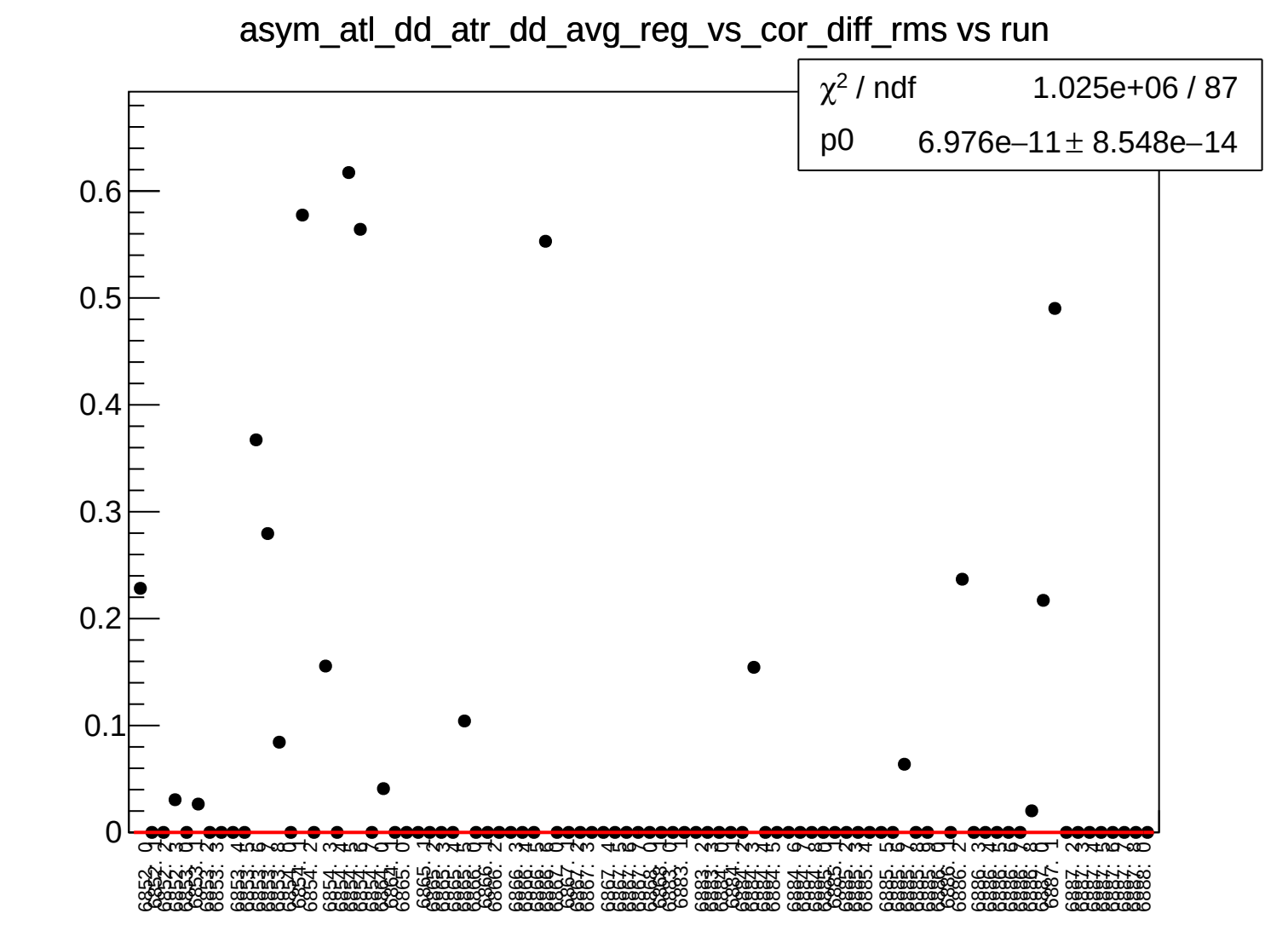

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 93.98 / 87
p0 −2295 ± 4449
pull
Entries 88
Mean −17.04
Std Dev 0

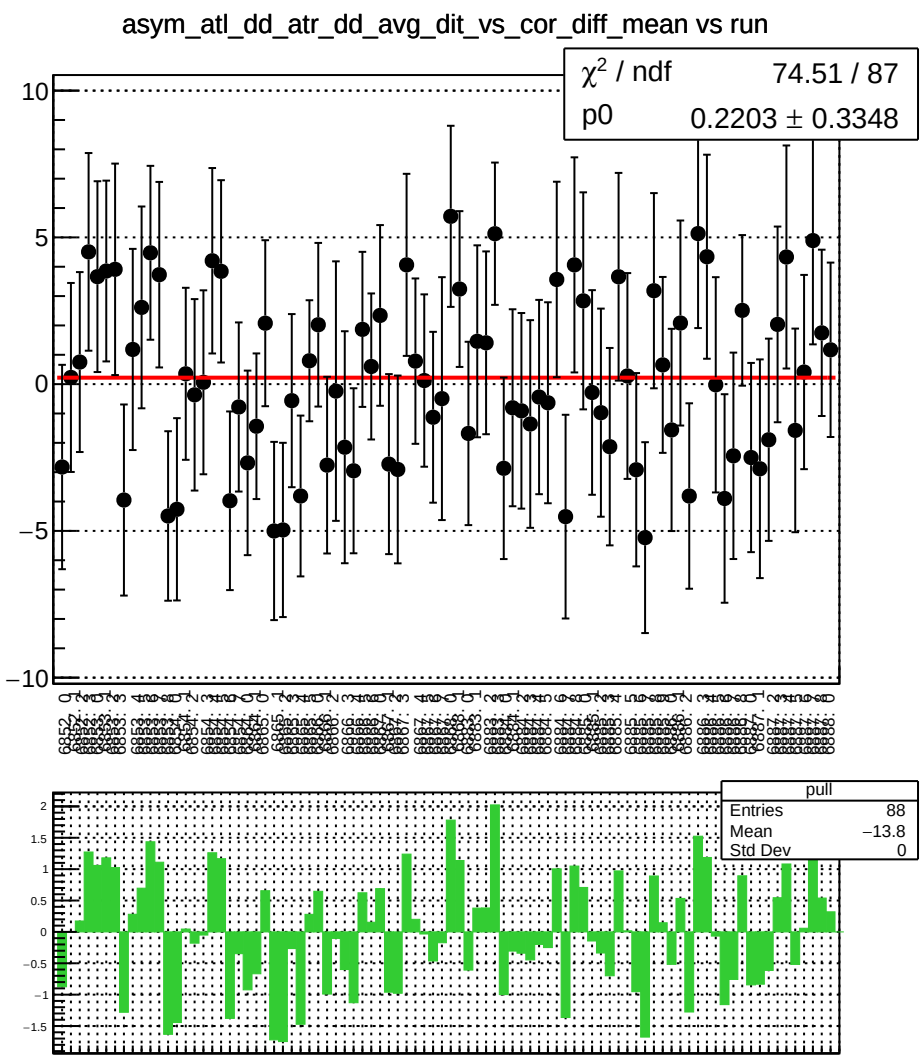

pull1D
Entries 88
Mean 0.009665
Std Dev 1.033

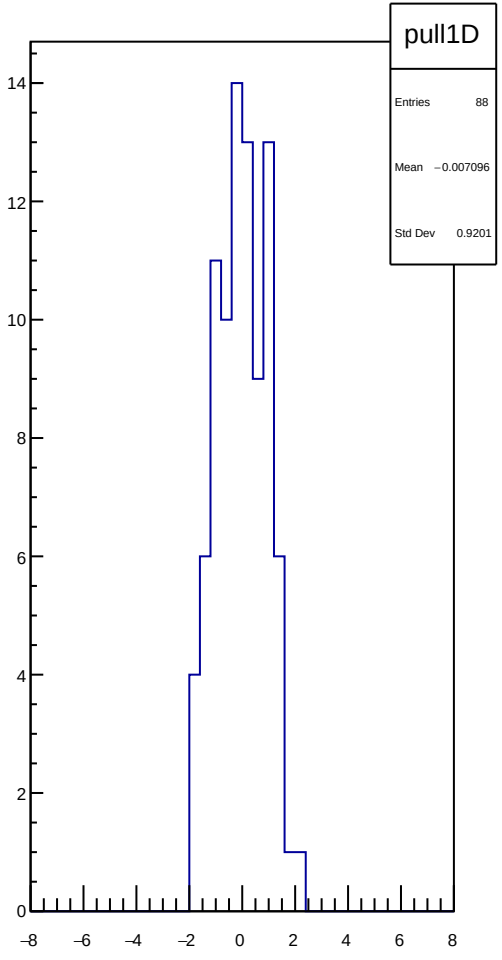

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4.874e+04 / 87
p0 4031 ± 3.146
5500
5000
4500
4000
3500

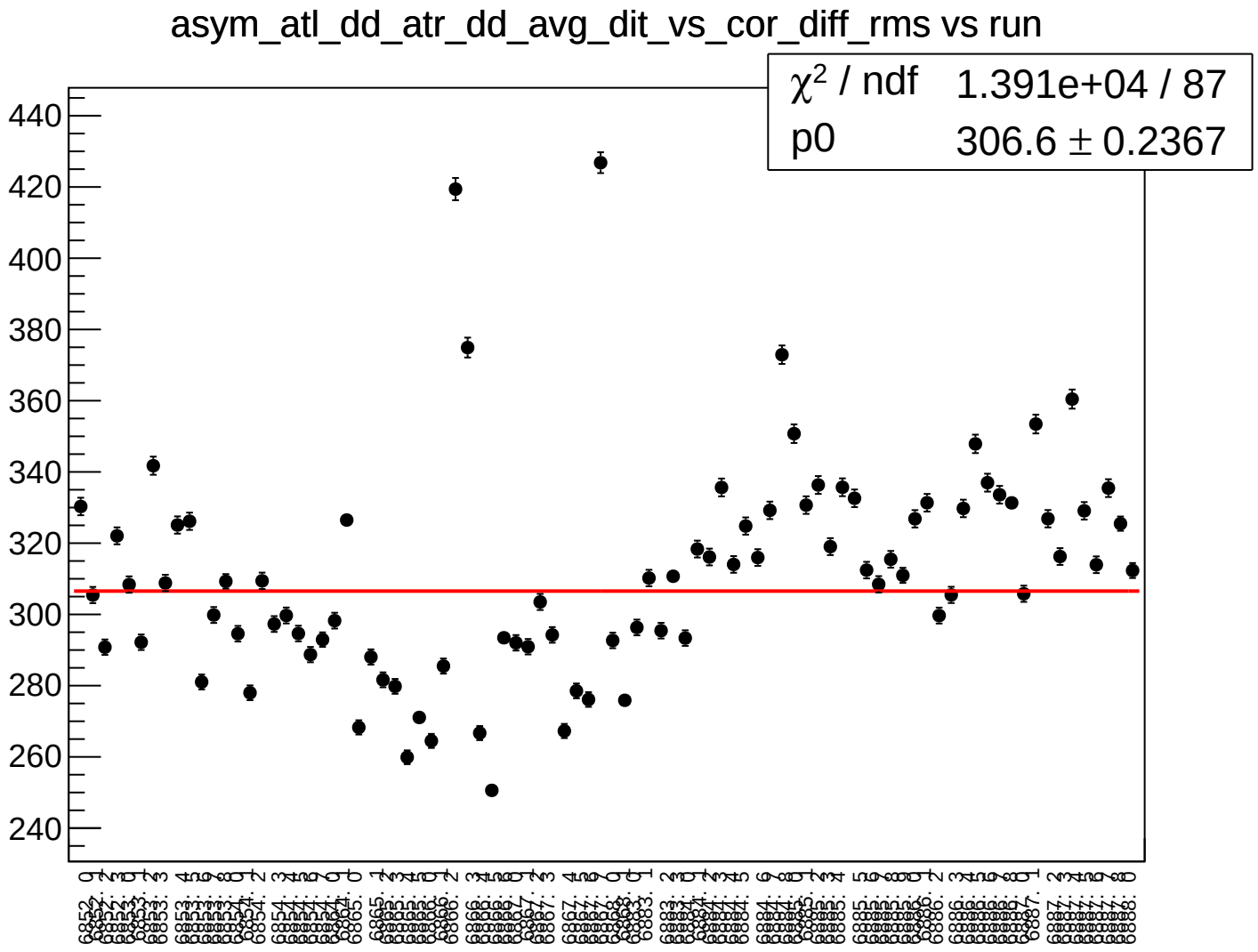

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.6 / 87
p0 −1.642e−14 ± 1.209e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 20.16
Std Dev 0
2
1
0
−1
−2
−3

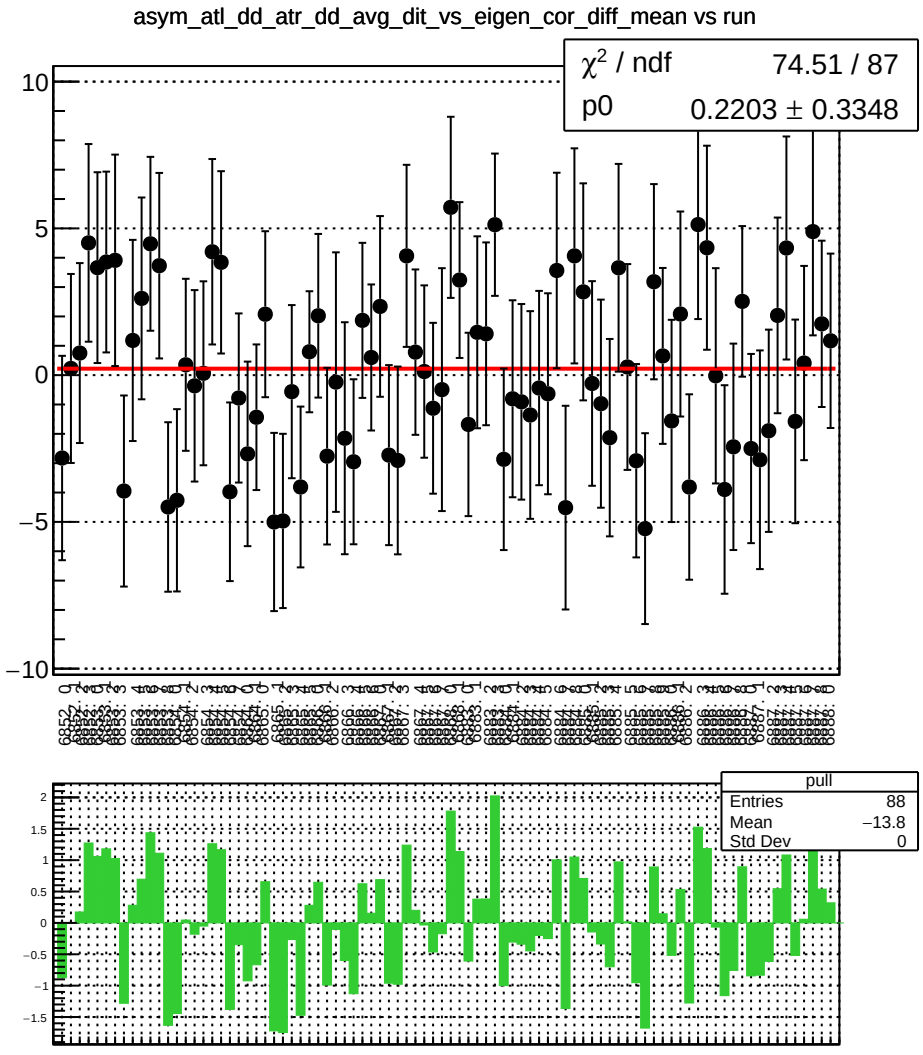

pull1D
Entries 88
Mean −0.08112
Std Dev 0.9233
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

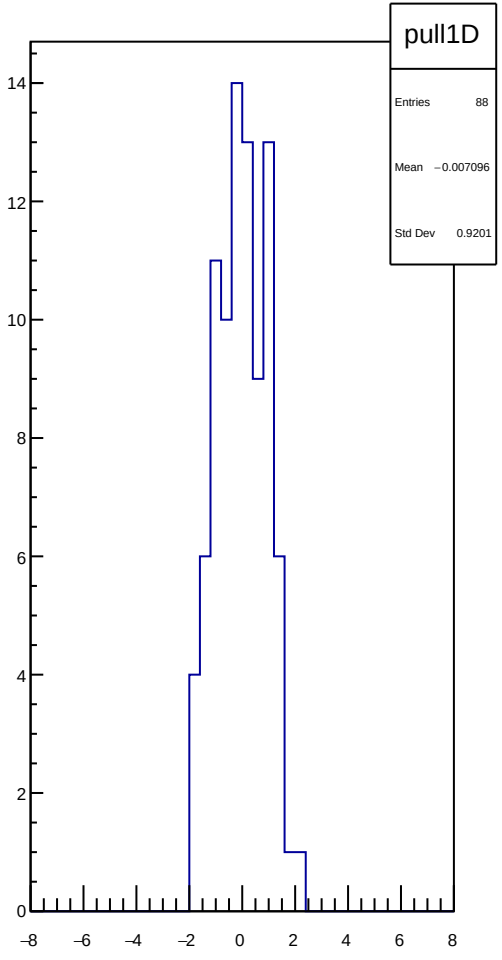

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.025e+06 / 87
p0 6.976e−11 ± 8.548e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

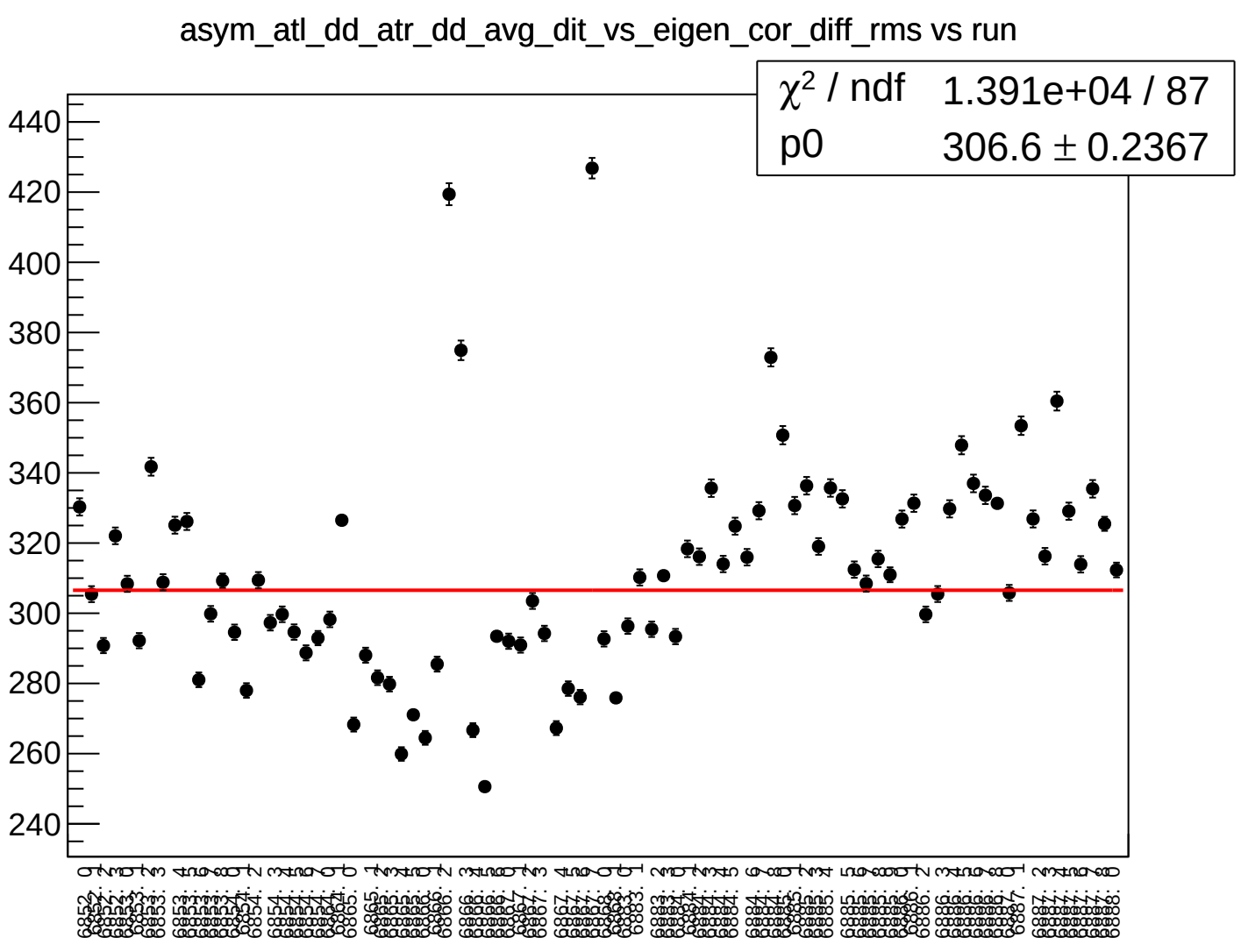

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.51 / 87
p0 0.2203 ± 0.3348
pull
Entries 88
Mean −13.8
Std Dev 0

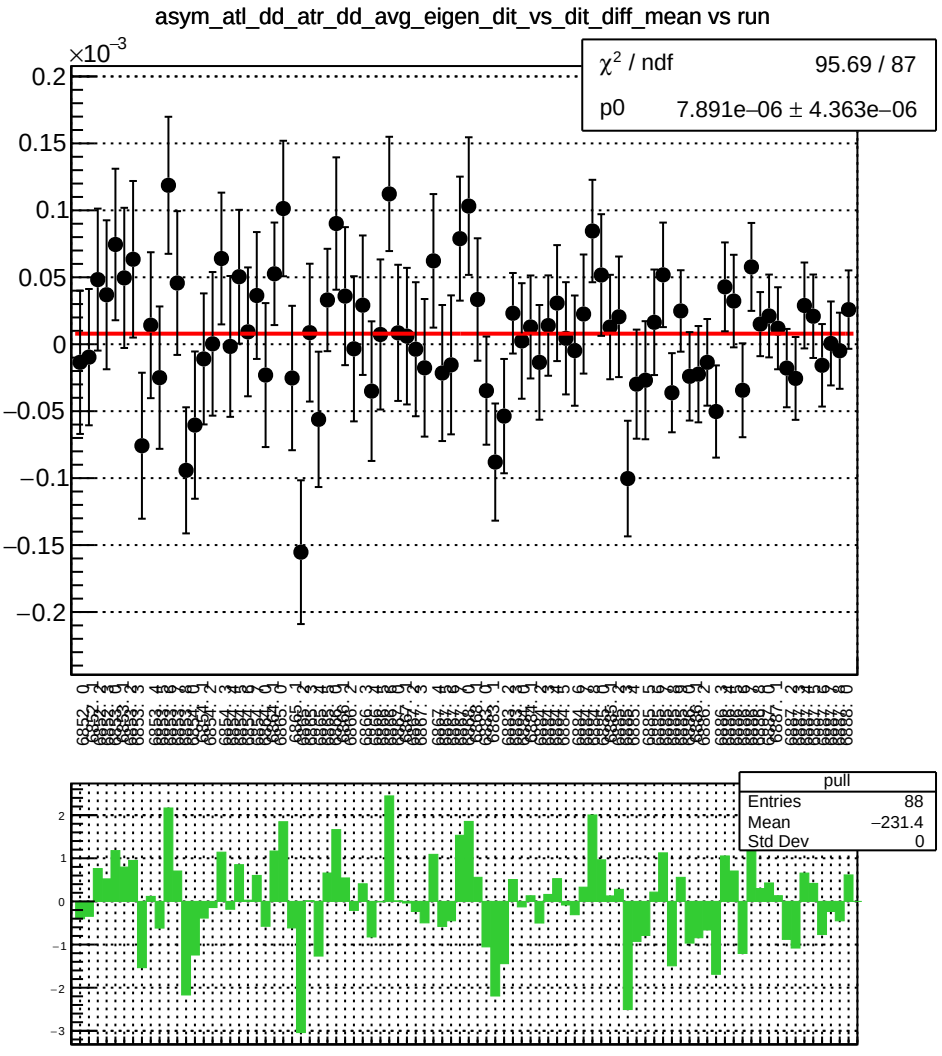

pull1D
Entries 88
Mean −0.007096
Std Dev 0.9201

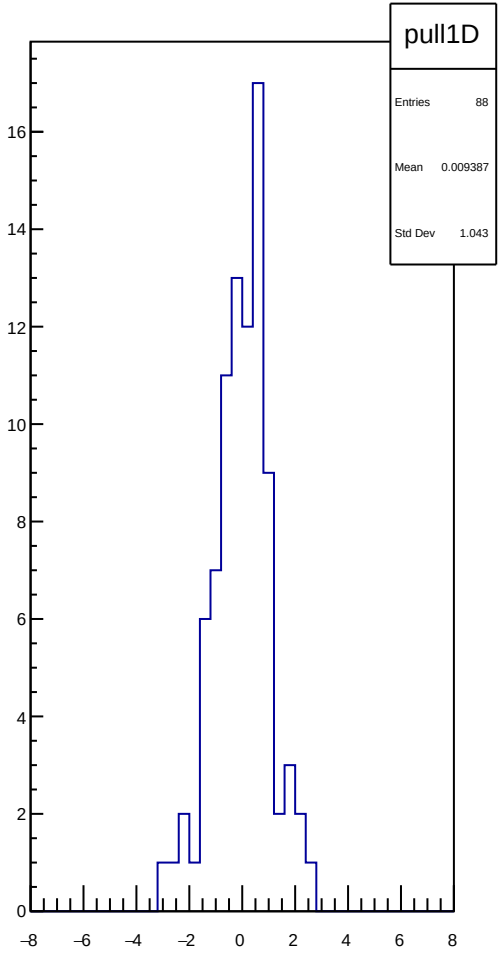

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 87
p0 306.6 ± 0.2367
440
420
400
380
360
340
320
300
280
260
240

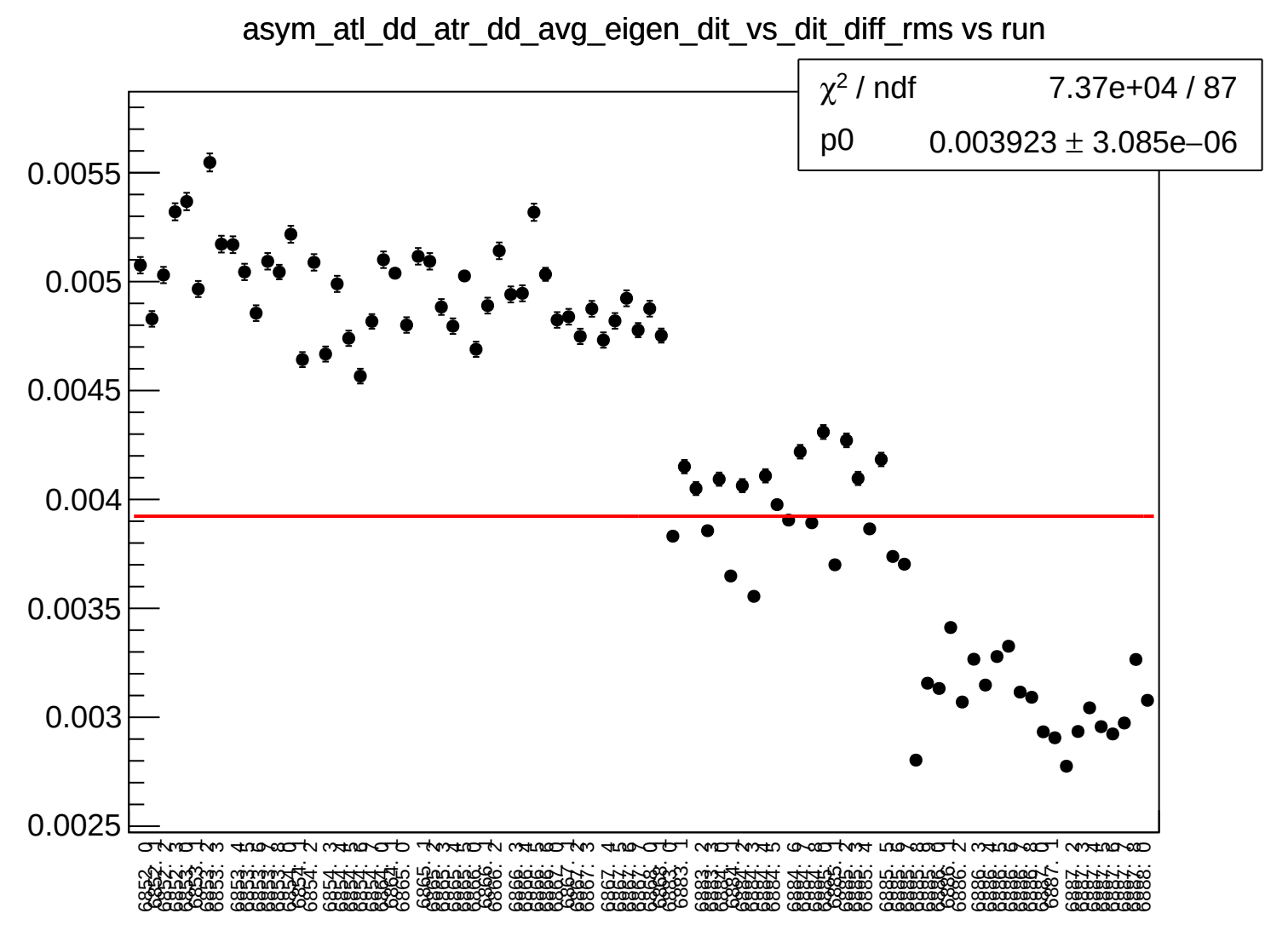

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.51 / 87
p0 0.2203 ± 0.3348
pull
Entries 88
Mean −13.8
Std Dev 0

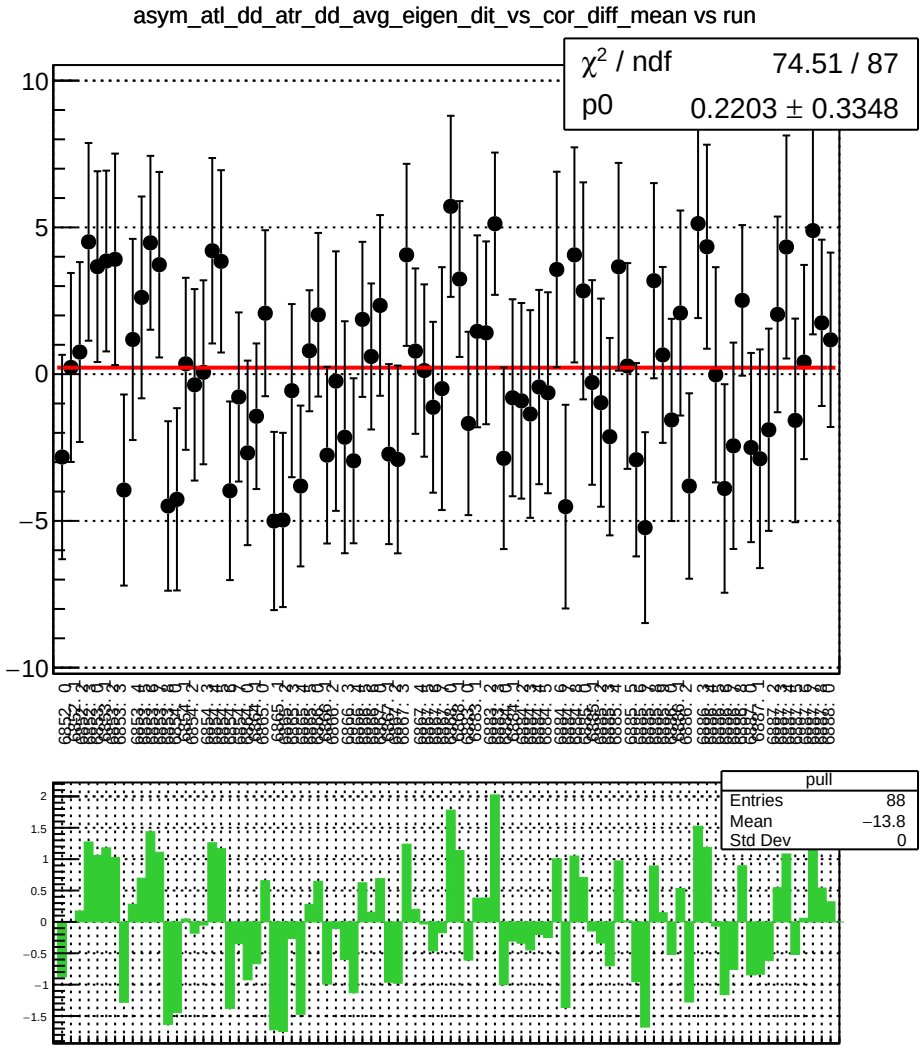

pull1D
Entries 88
Mean −0.007096
Std Dev 0.9201

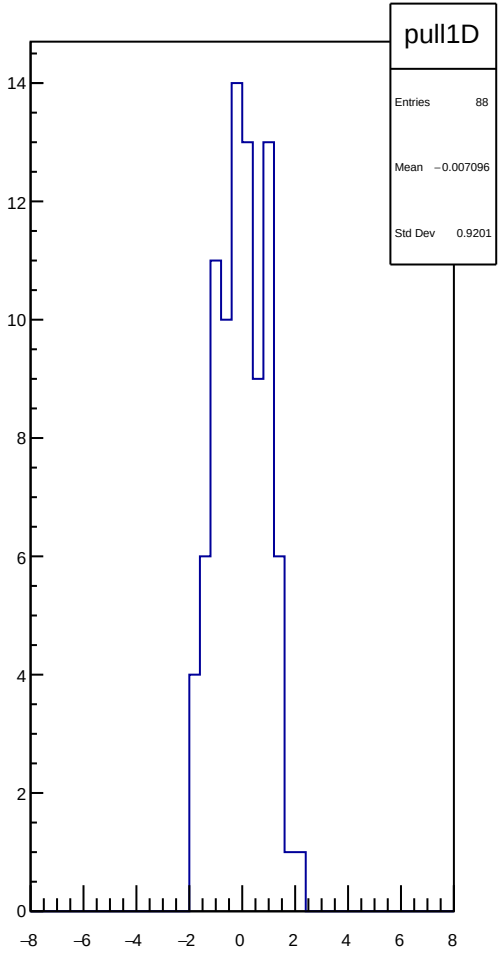

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 87
p0 306.6 ± 0.2367
440
420
400
380
360
340
320
300
280
260
240

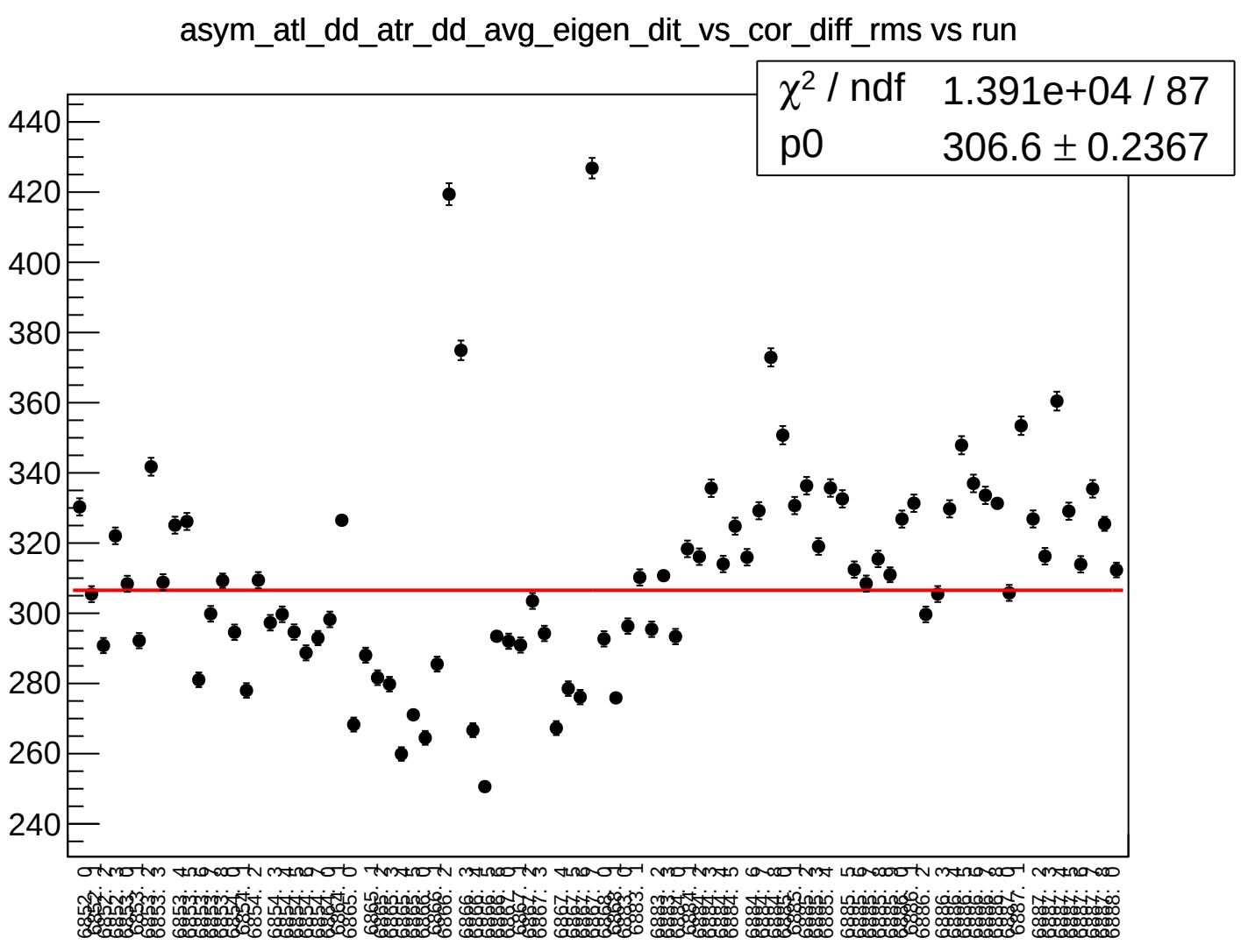

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.69 / 87
p0 7.891e−06 ± 4.363e−06
pull
Entries 88
Mean −231.4
Std Dev 0

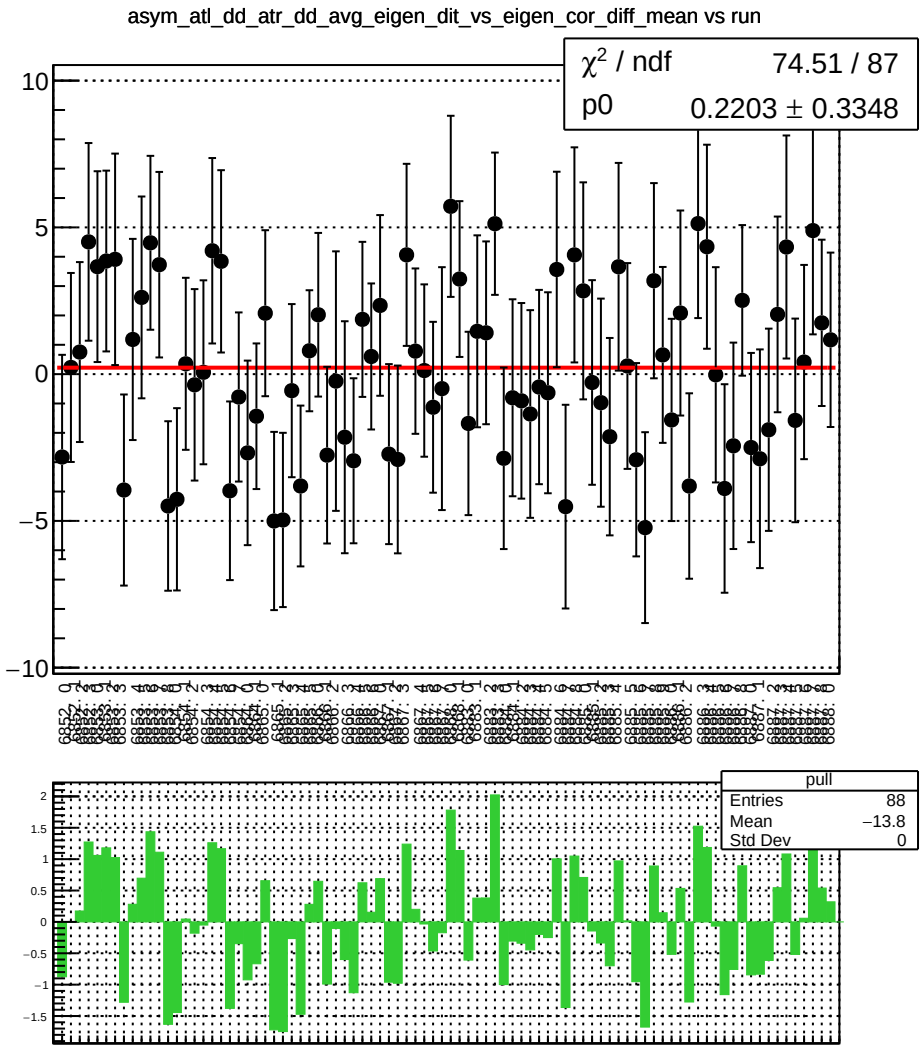

pull1D
Entries 88
Mean 0.009387
Std Dev 1.043

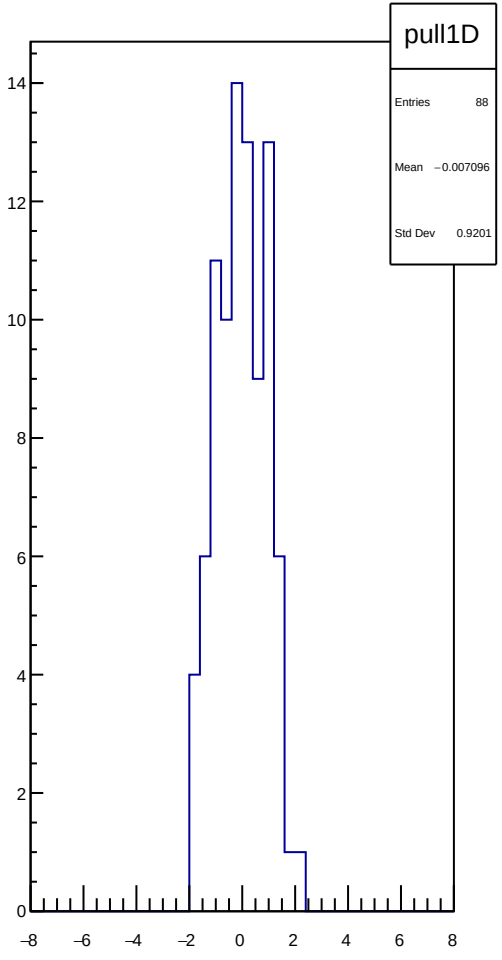

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.37e+04 / 87
p0 0.003923 ± 3.085e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

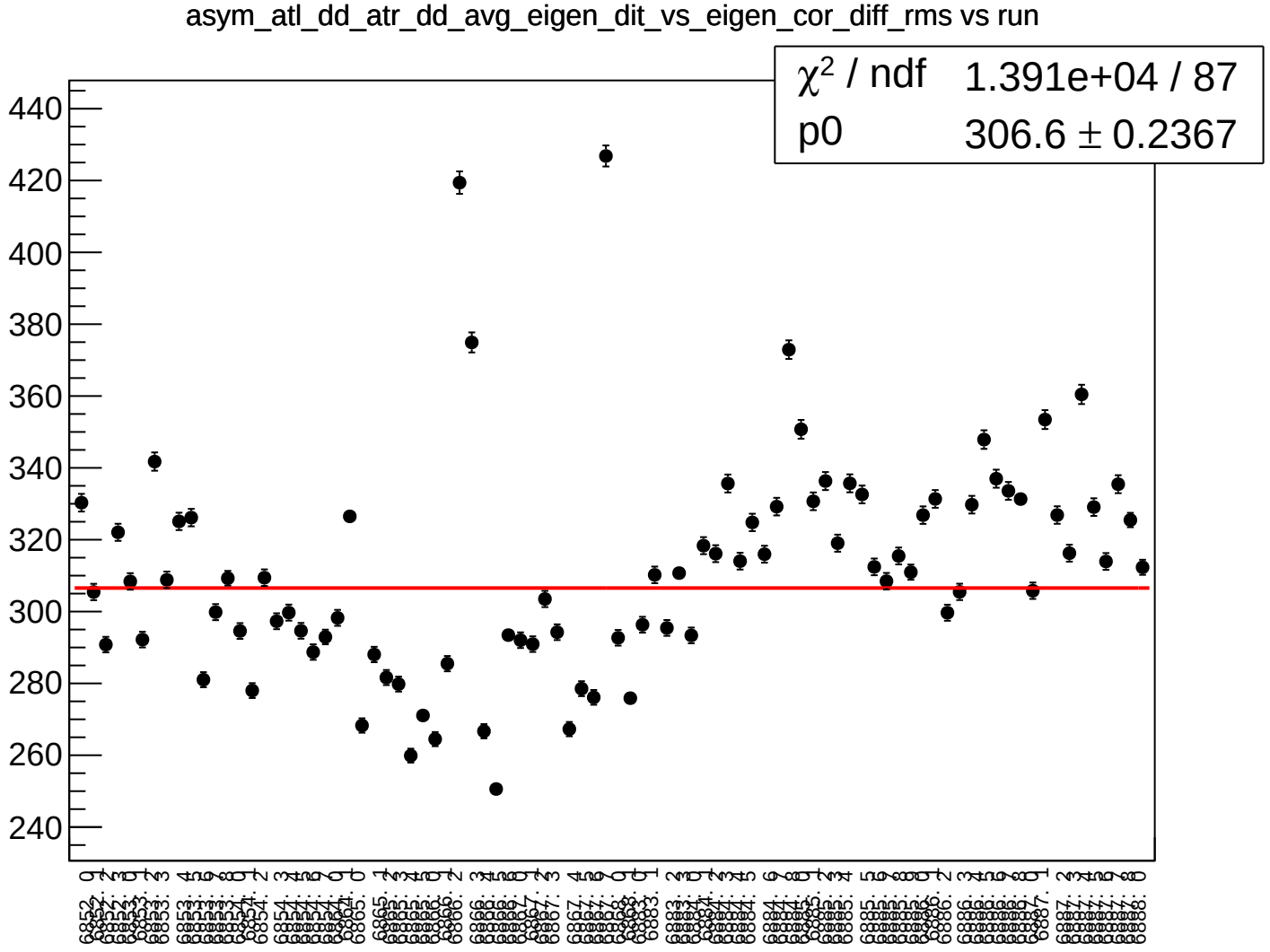

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.51 / 87
p0 0.2203 ± 0.3348
pull
Entries 88
Mean −13.8
Std Dev 0

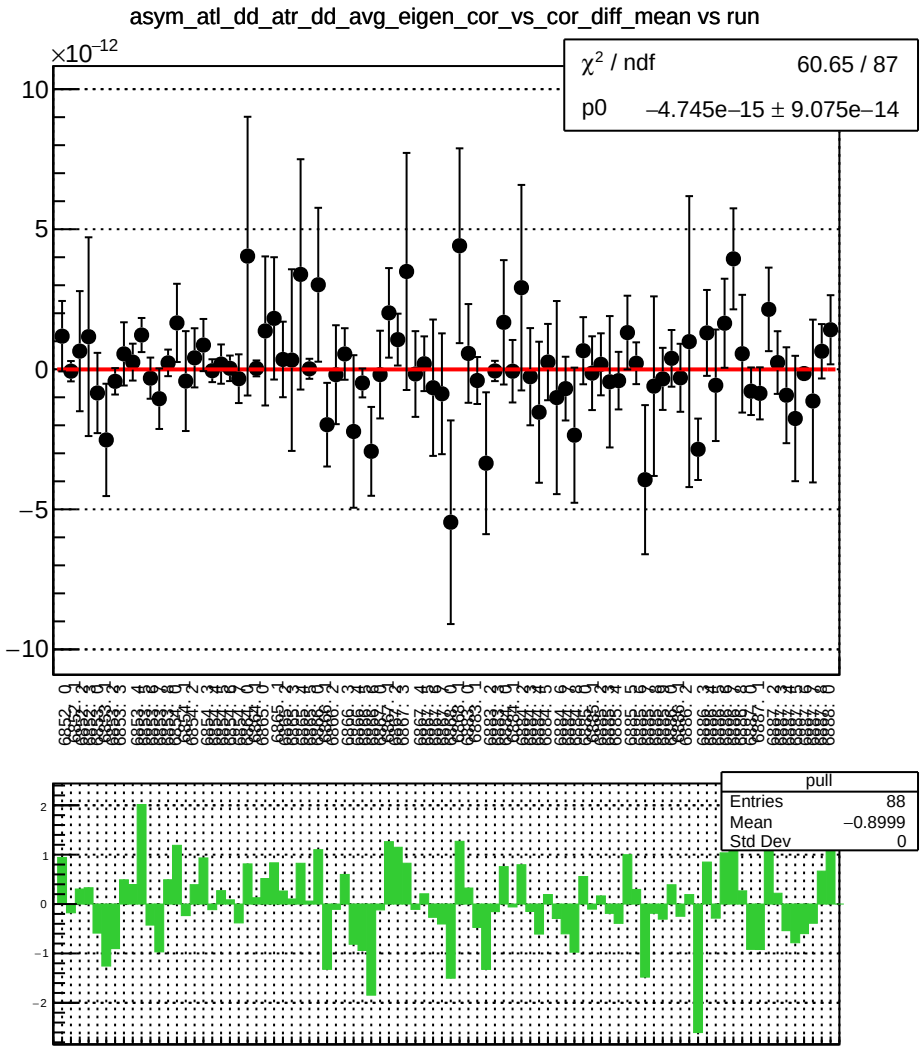

pull1D
Entries 88
Mean −0.007096
Std Dev 0.9201

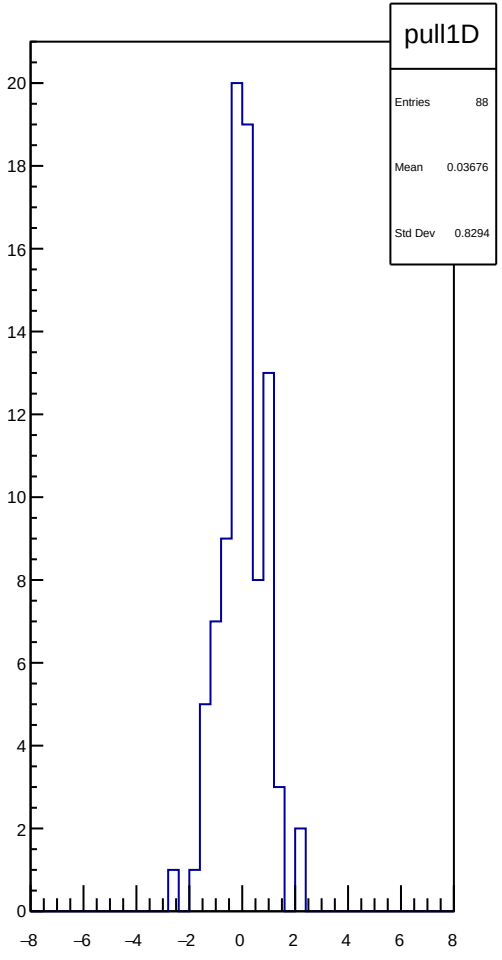

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 87
p0 306.6 ± 0.2367
440
420
400
380
360
340
320
300
280
260
240

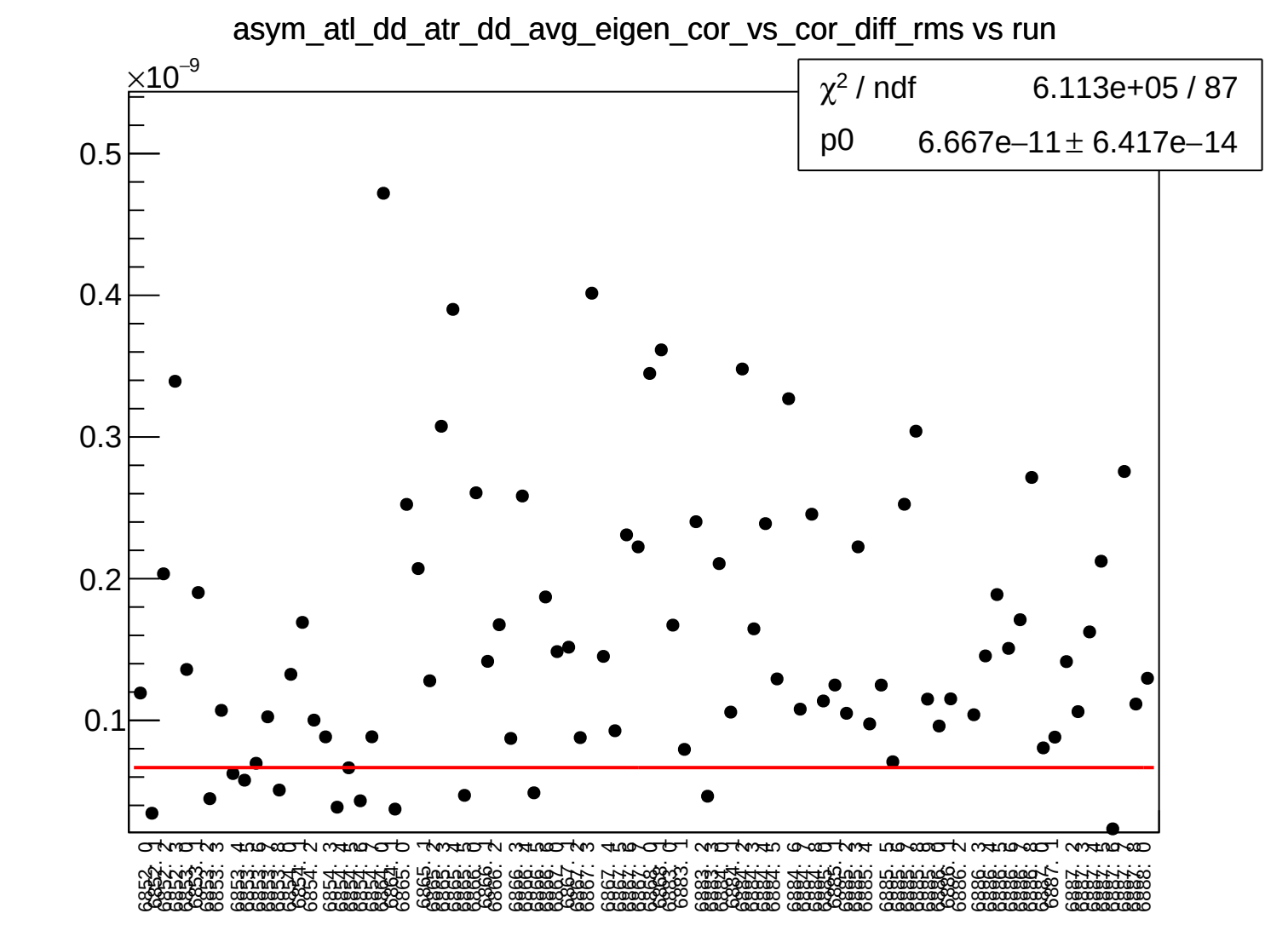

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.51 / 87
p0 0.2203 ± 0.3348
pull
Entries 88
Mean −13.8
Std Dev 0

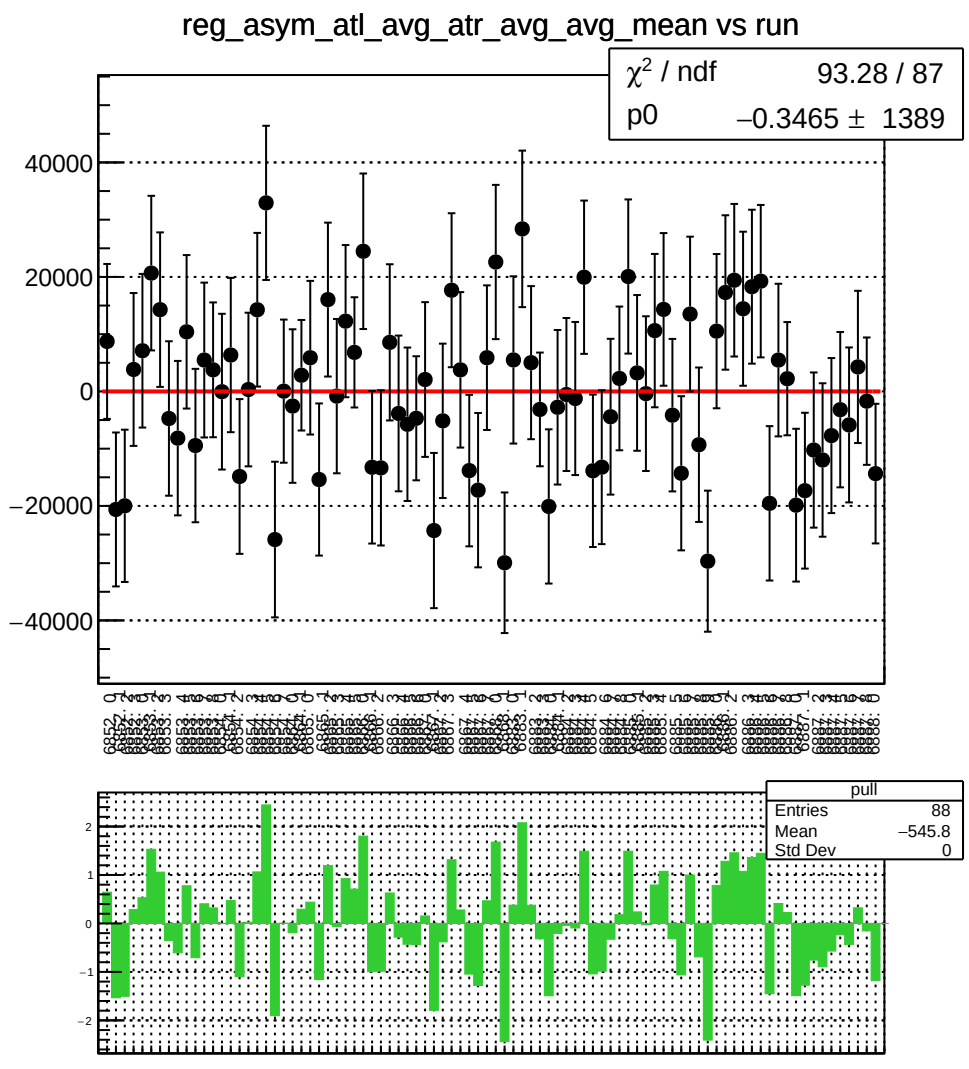

pull1D
Entries 88
Mean −0.007096
Std Dev 0.9201

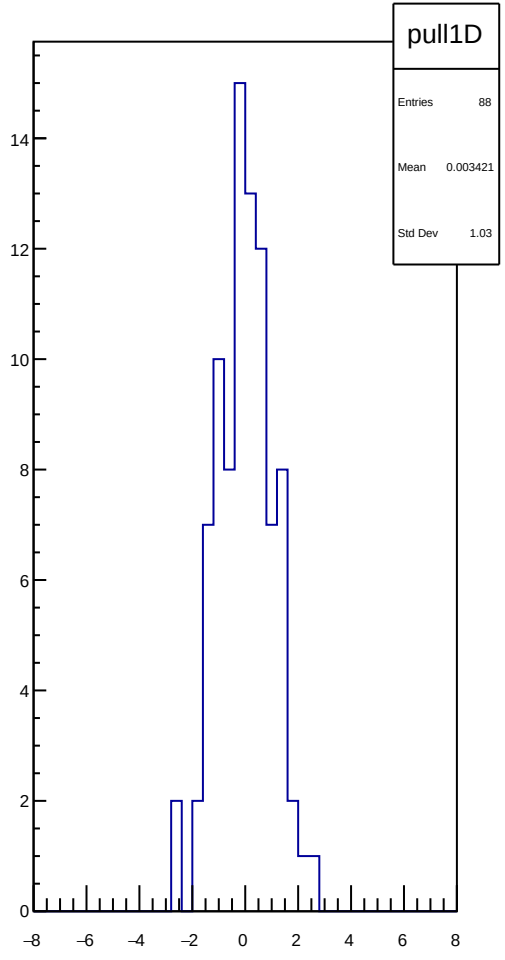

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 87
p0 306.6 ± 0.2367
440
420
400
380
360
340
320
300
280
260
240

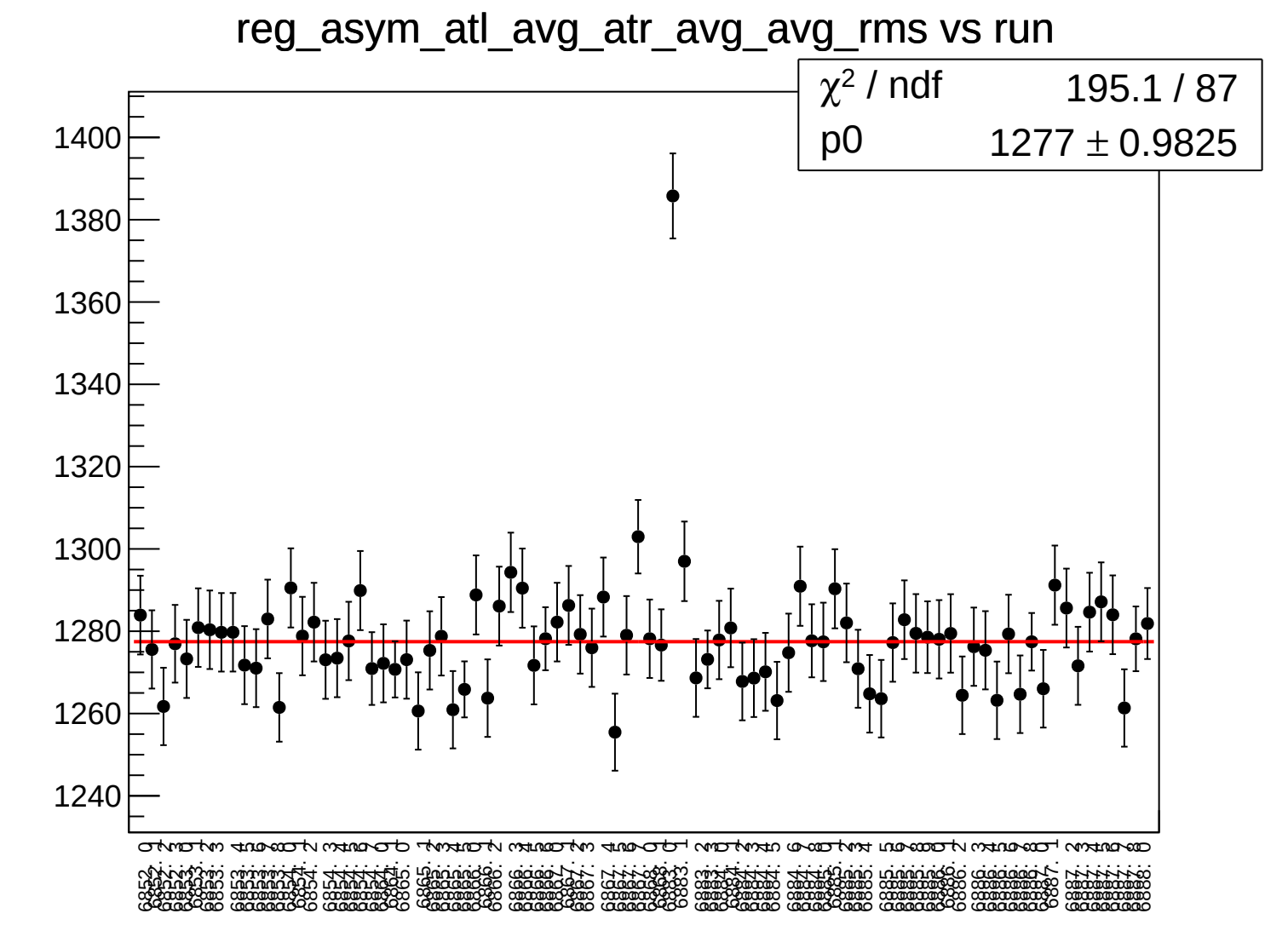

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 60.65 / 87
p0 −4.745e−15 ± 9.075e−14
pull
Entries 88
Mean −0.8999
Std Dev 0

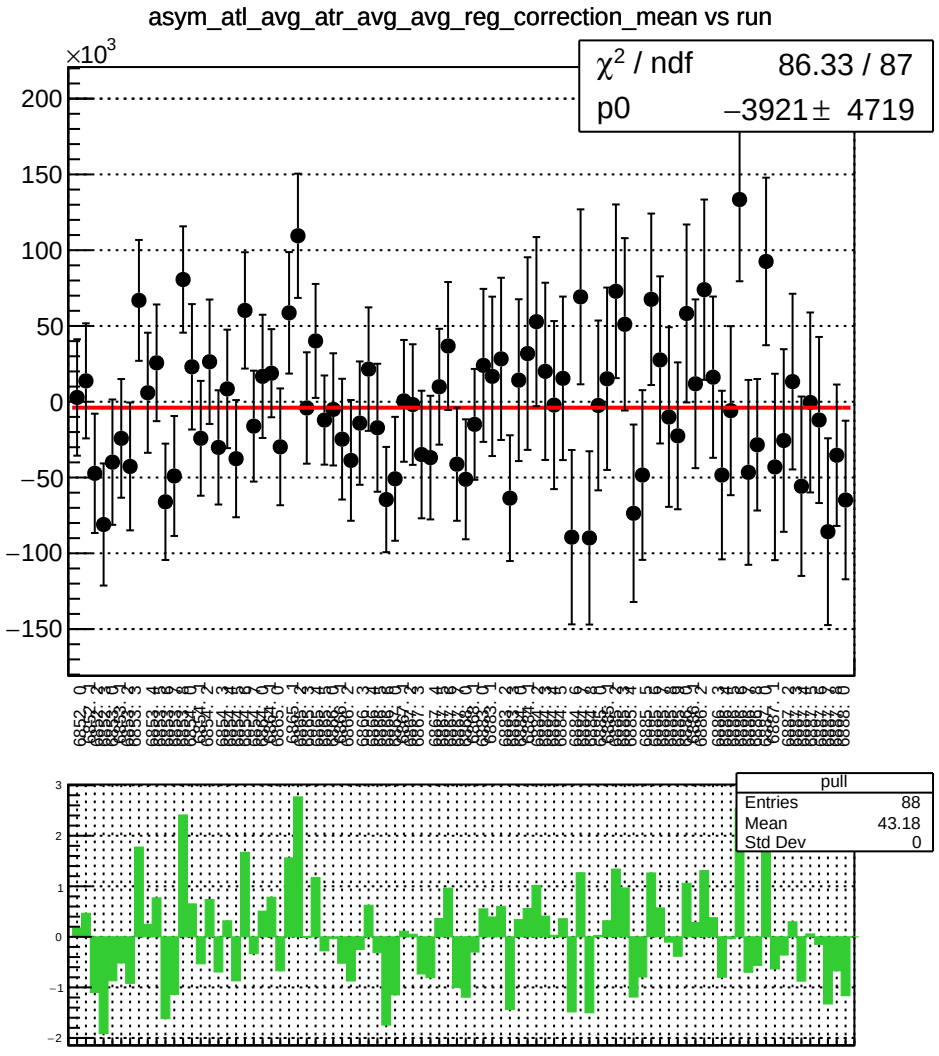

pull1D
Entries 88
Mean 0.03676
Std Dev 0.8294

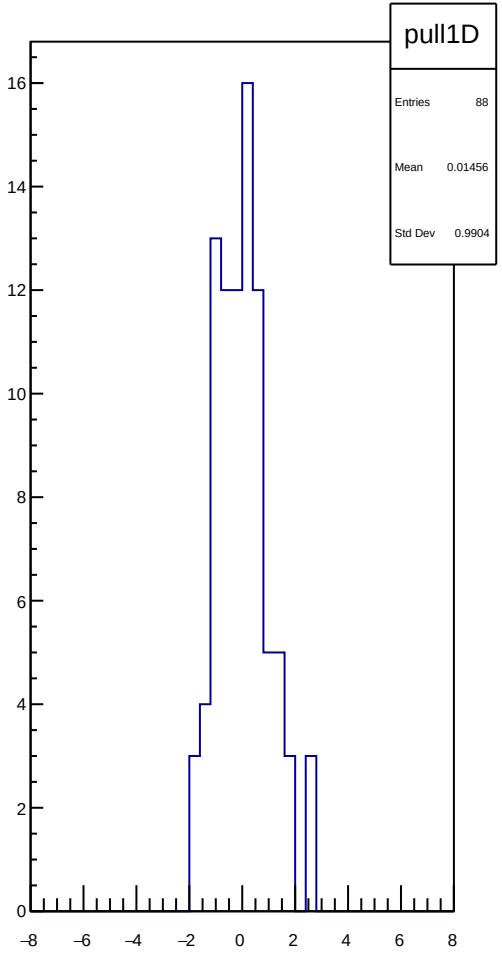

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.113e+05 / 87
p0 6.667e−11 ± 6.417e−14
0.5
0.4
0.3
0.2
0.1

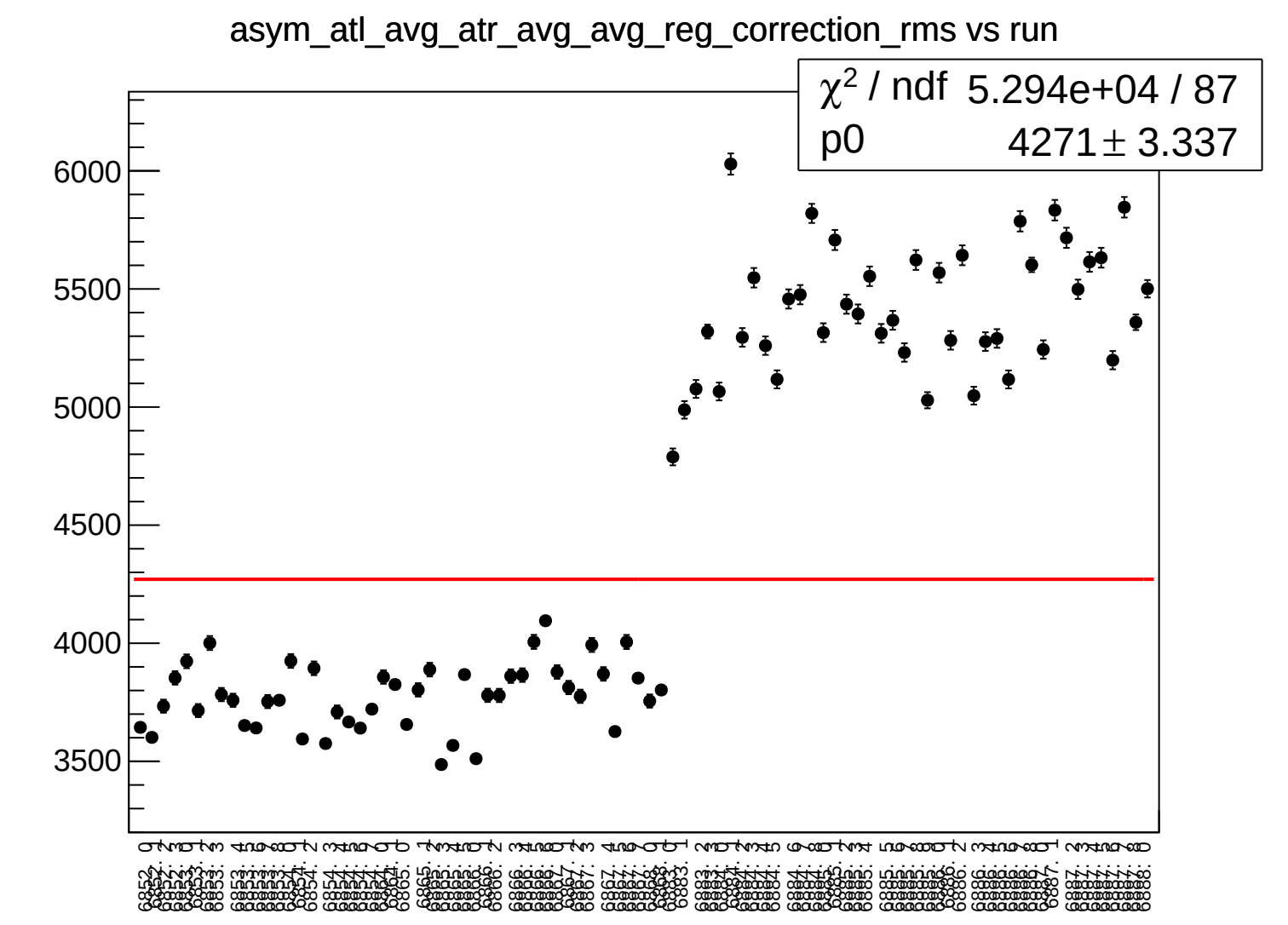

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.28 / 87
p0 −0.3465 ± 1389
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −545.8
Std Dev 0
2
1
0
−1
−2

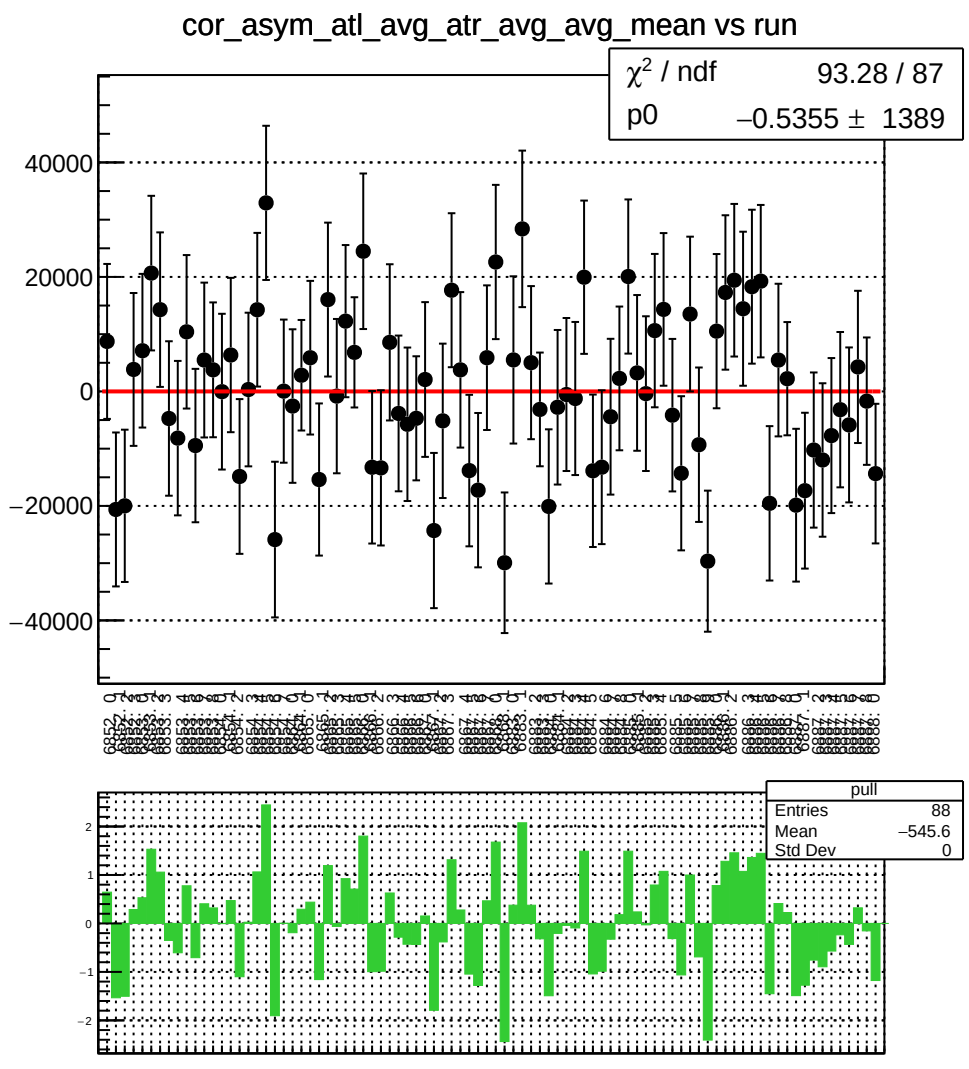

pull1D
Entries 88
Mean 0.003421
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

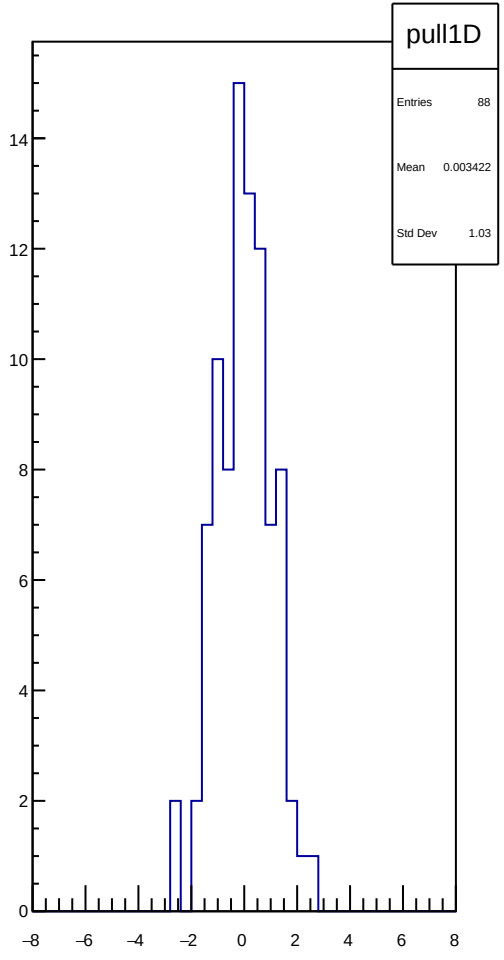

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 195.1 / 87
p0 1277 ± 0.9825
1400
1380
1360
1340
1320
1300
1280
1260
1240

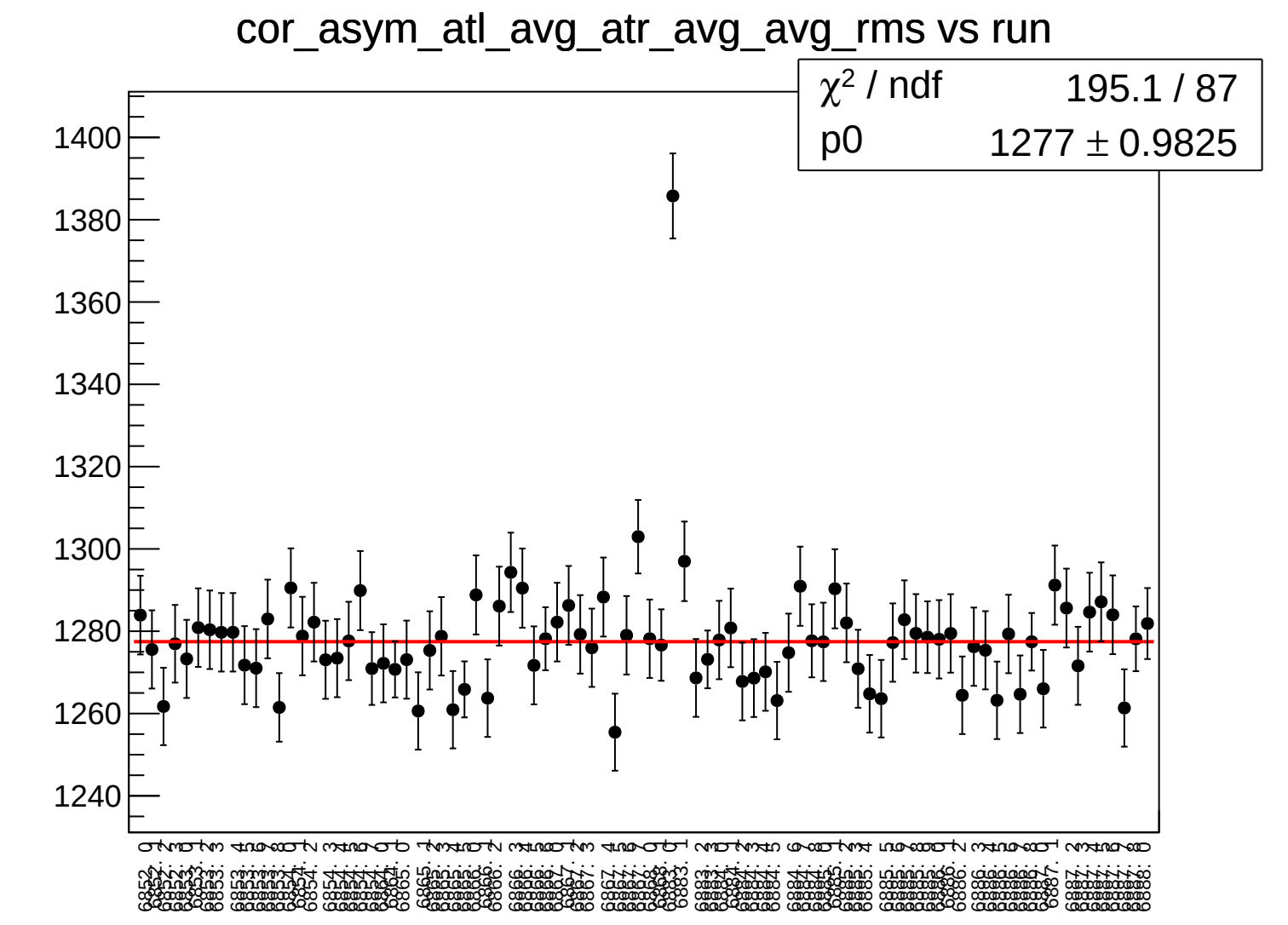

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.33 / 87
p0 −3921 ± 4719
pull
Entries 88
Mean 43.18
Std Dev 0

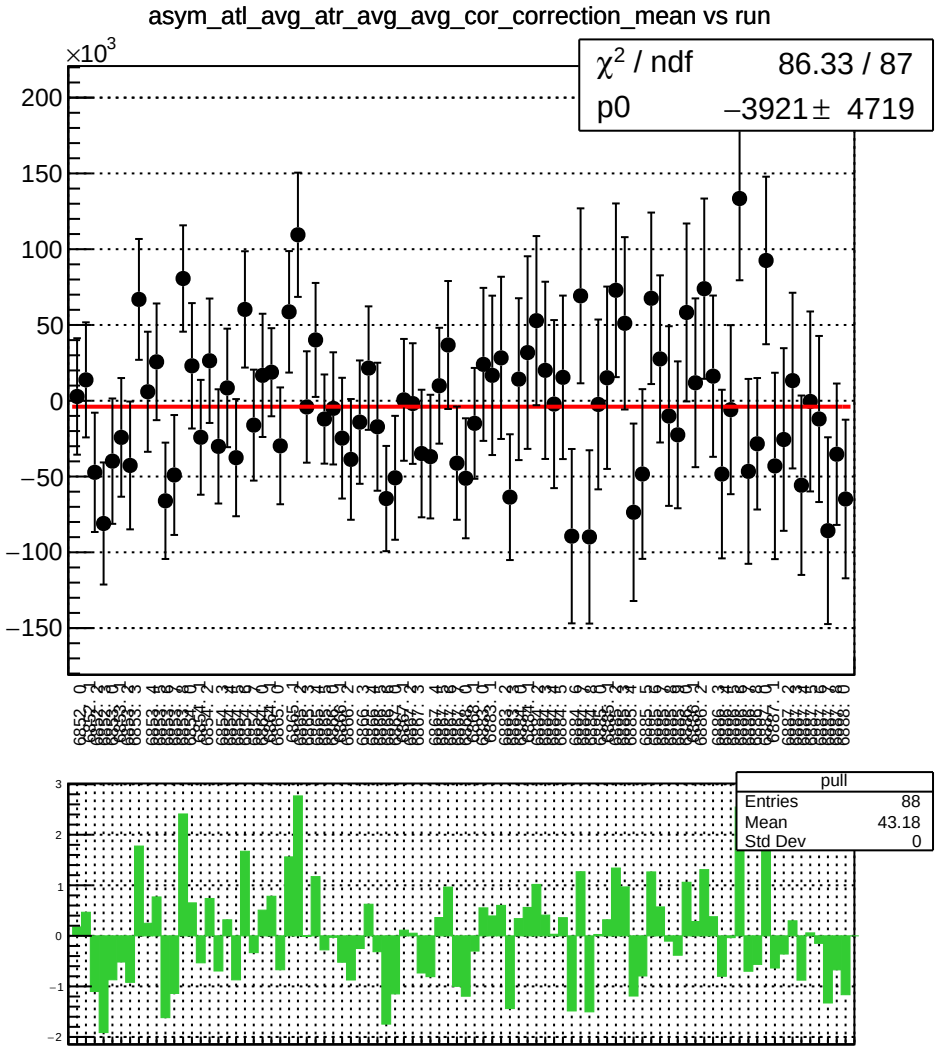

pull1D
Entries 88
Mean 0.01456
Std Dev 0.9904

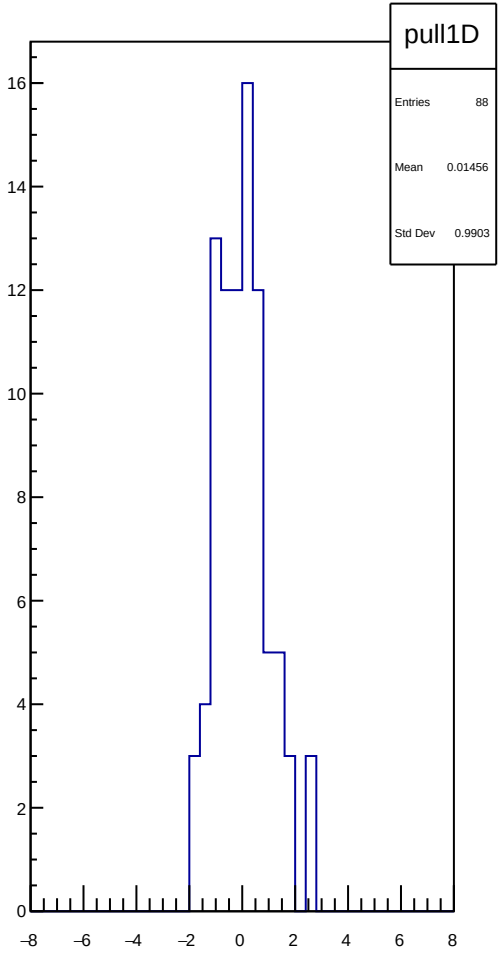

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 5.294e+04 / 87
p0 4271 ± 3.337
6000
5500
5000
4500
4000
3500

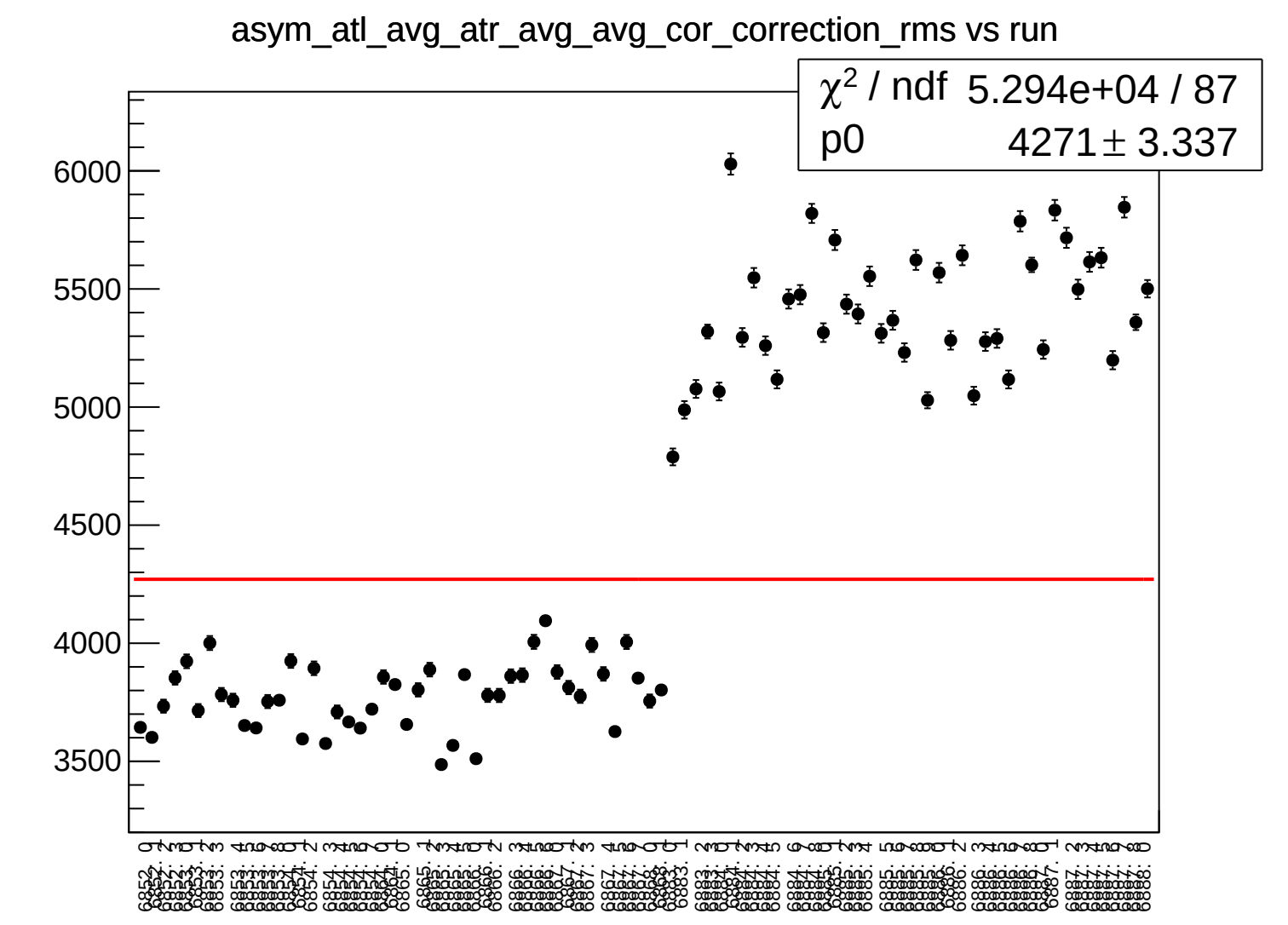

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.28 / 87
p0 −0.5355 ± 1389
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −545.6
Std Dev 0
2
1
0
−1
−2

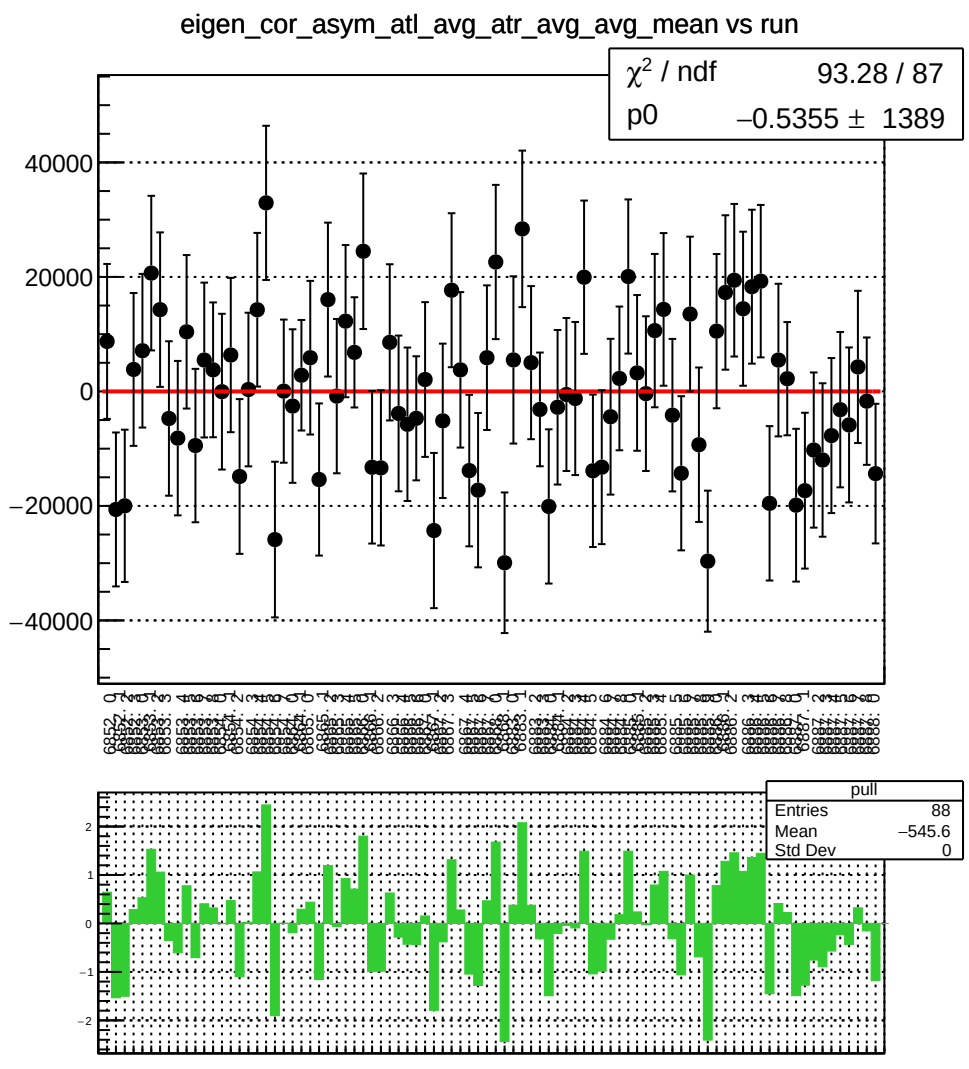

pull1D
Entries 88
Mean 0.003422
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

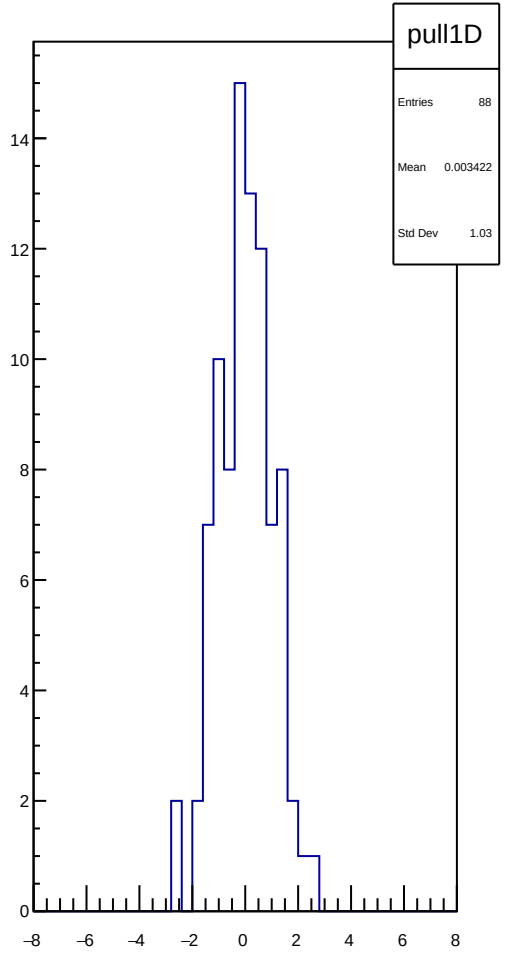

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 195.1 / 87
p0 1277 ± 0.9825
1400
1380
1360
1340
1320
1300
1280
1260
1240

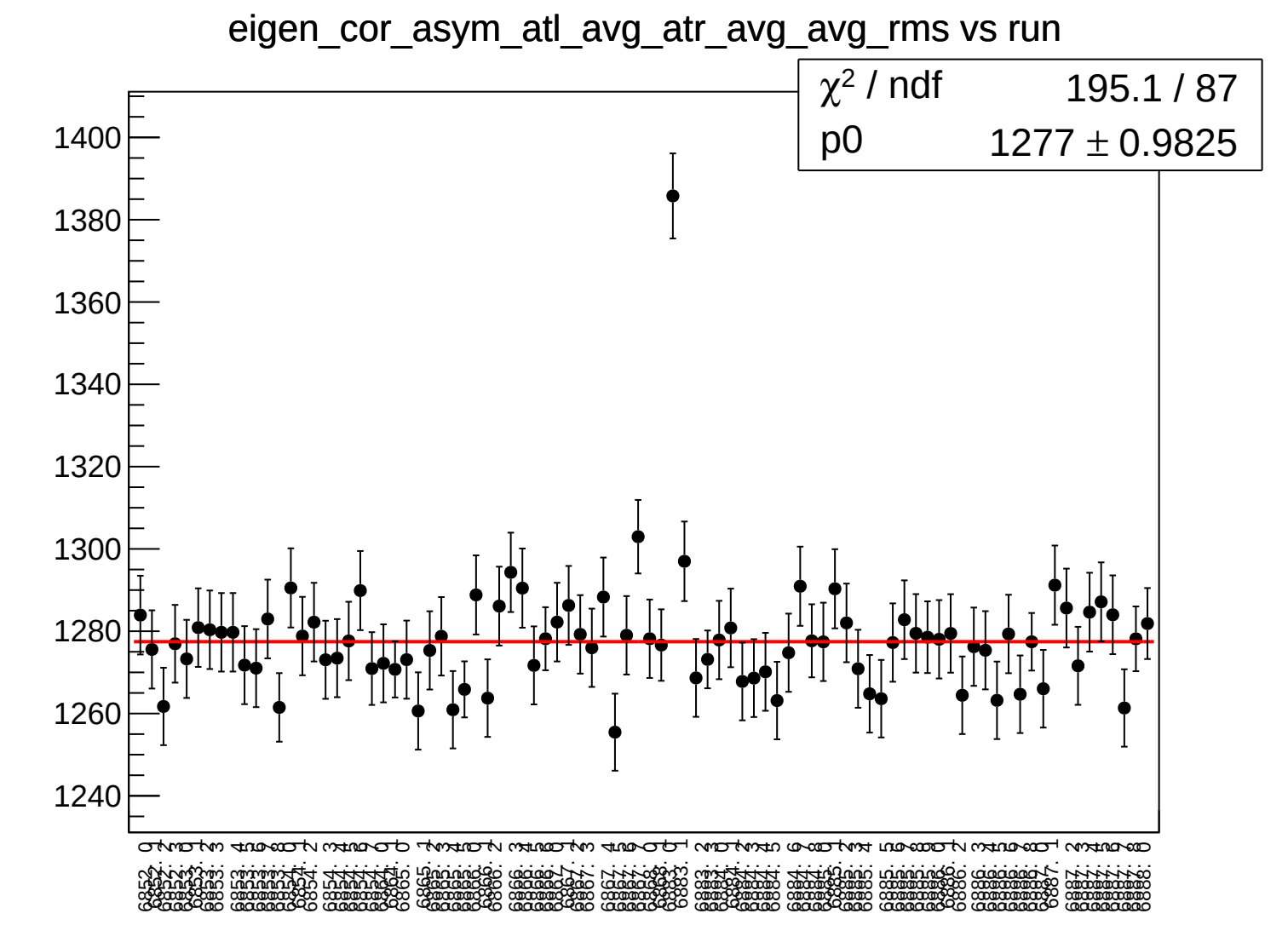

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.33 / 87
p0 −3921 ± 4719
pull
Entries 88
Mean 43.18
Std Dev 0

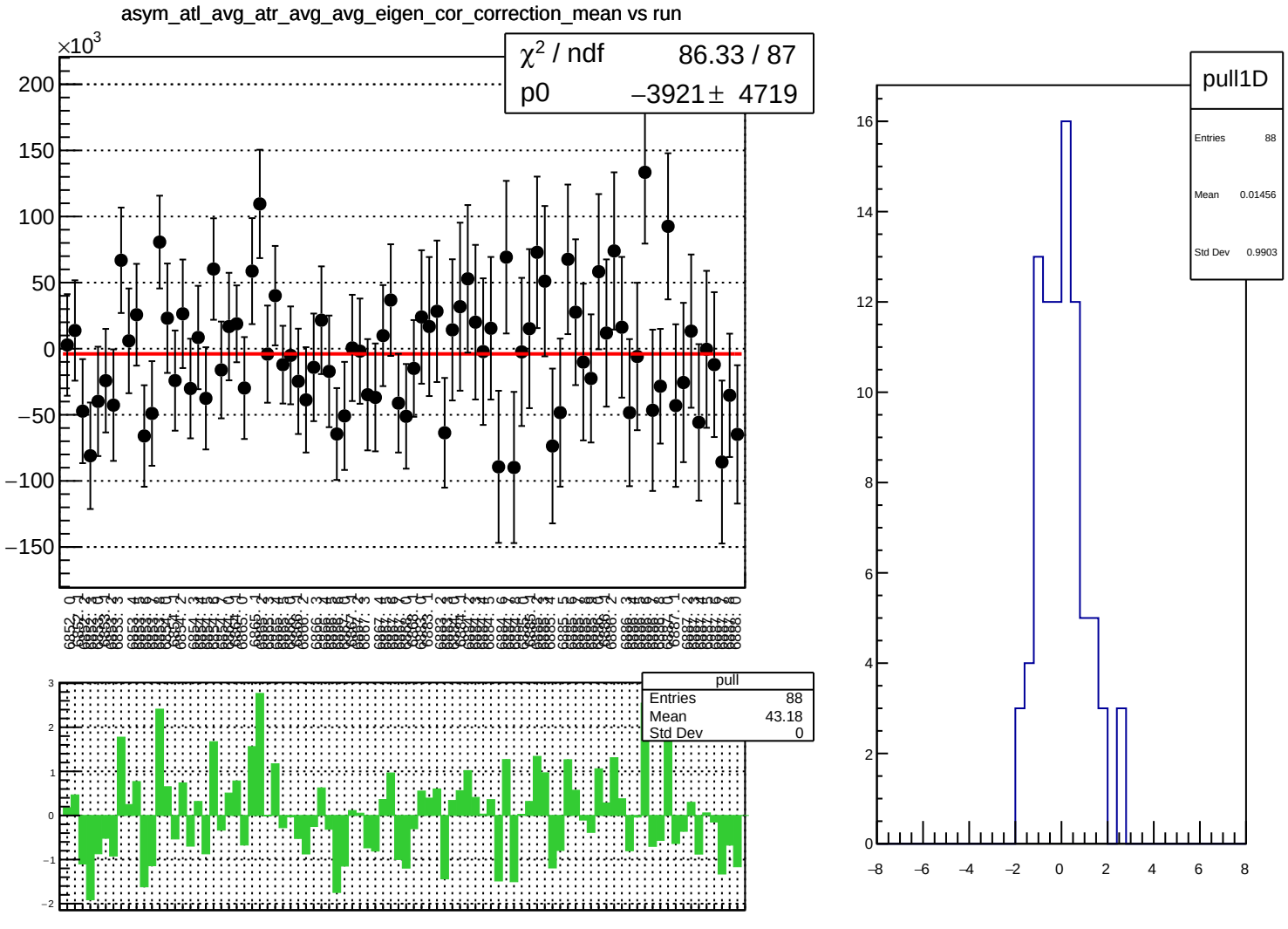

pull1D
Entries 88
Mean 0.01456
Std Dev 0.9903

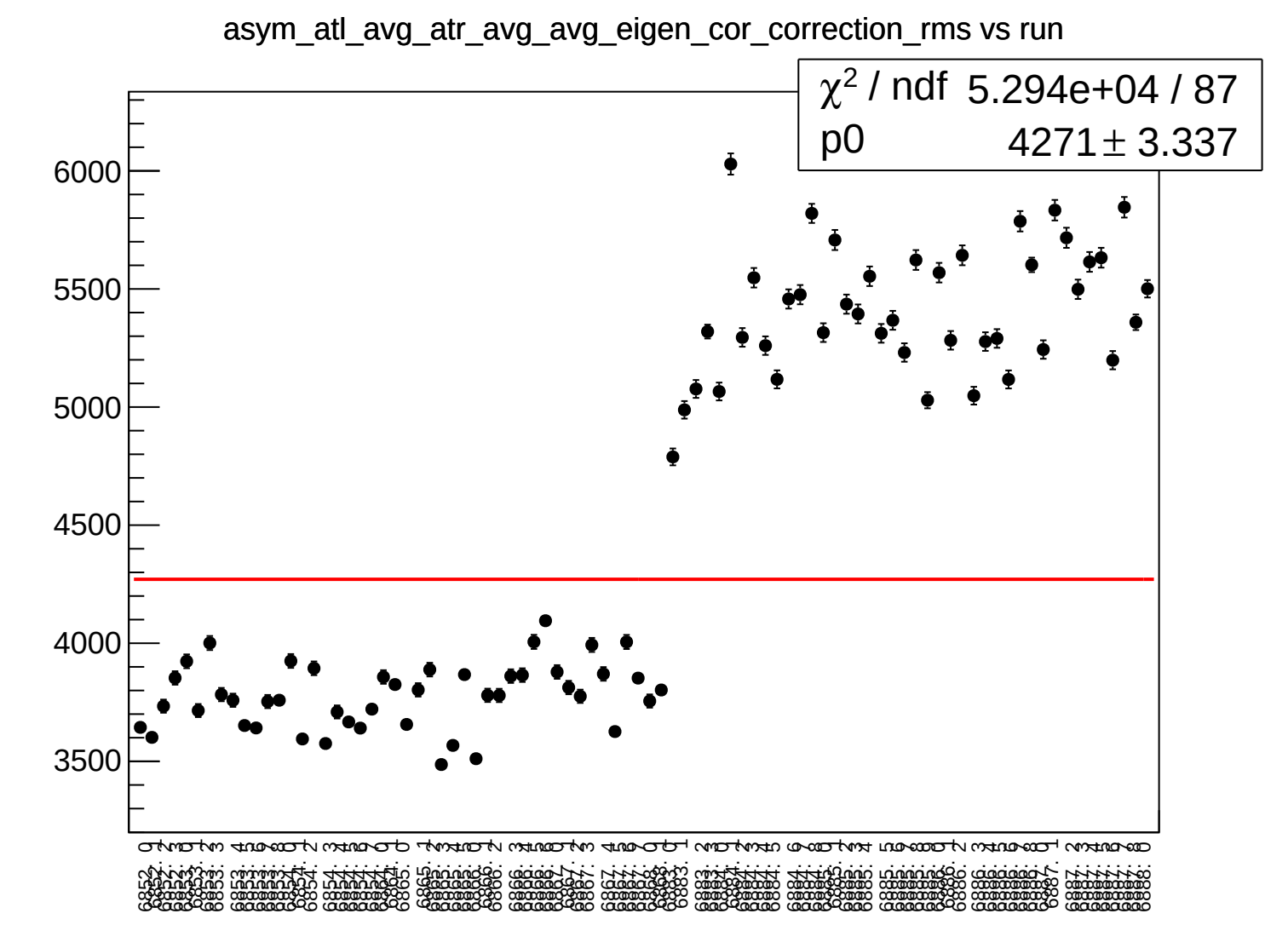

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 5.294e+04 / 87
p0 4271 ± 3.337
6000
5500
5000
4500
4000
3500

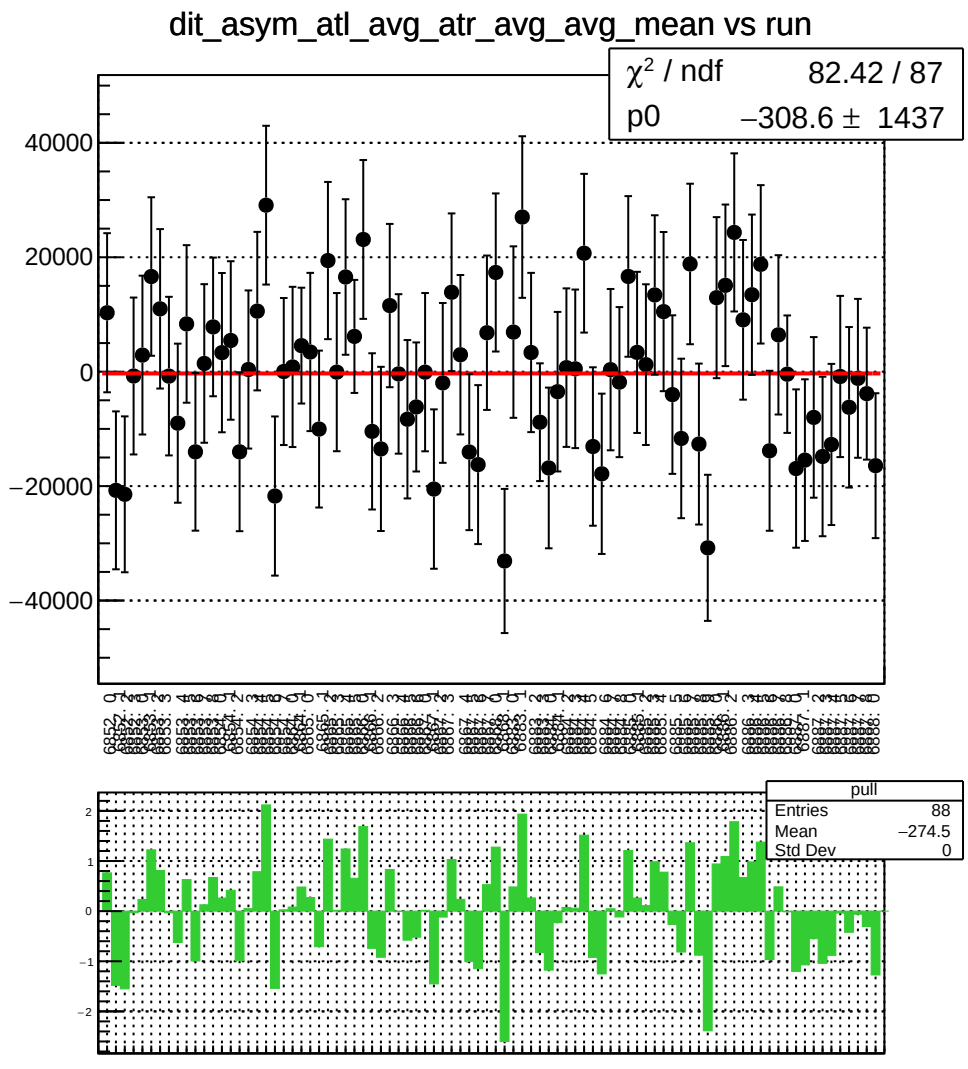

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.28 / 87
p0 −0.5355 ± 1389
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −545.6
Std Dev 0
2
1
0
−1
−2

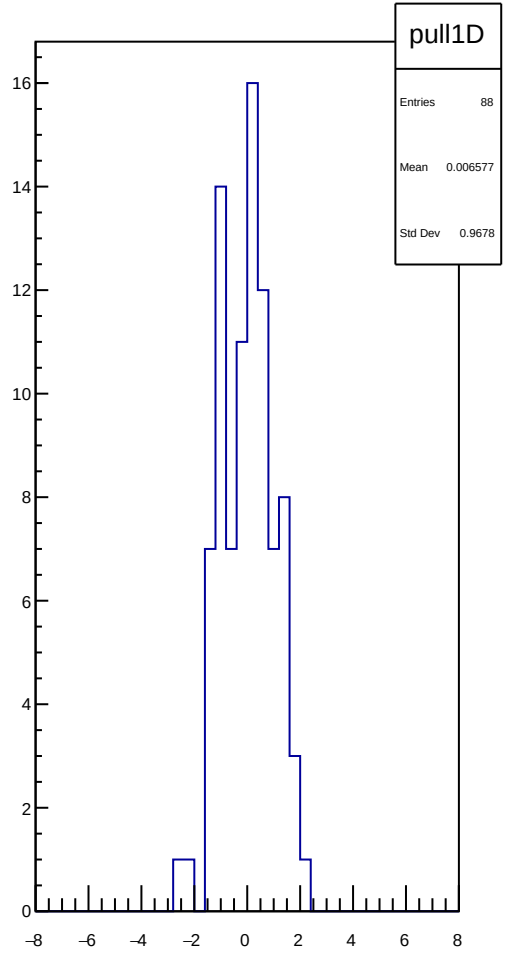

pull1D
Entries 88
Mean 0.003422
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

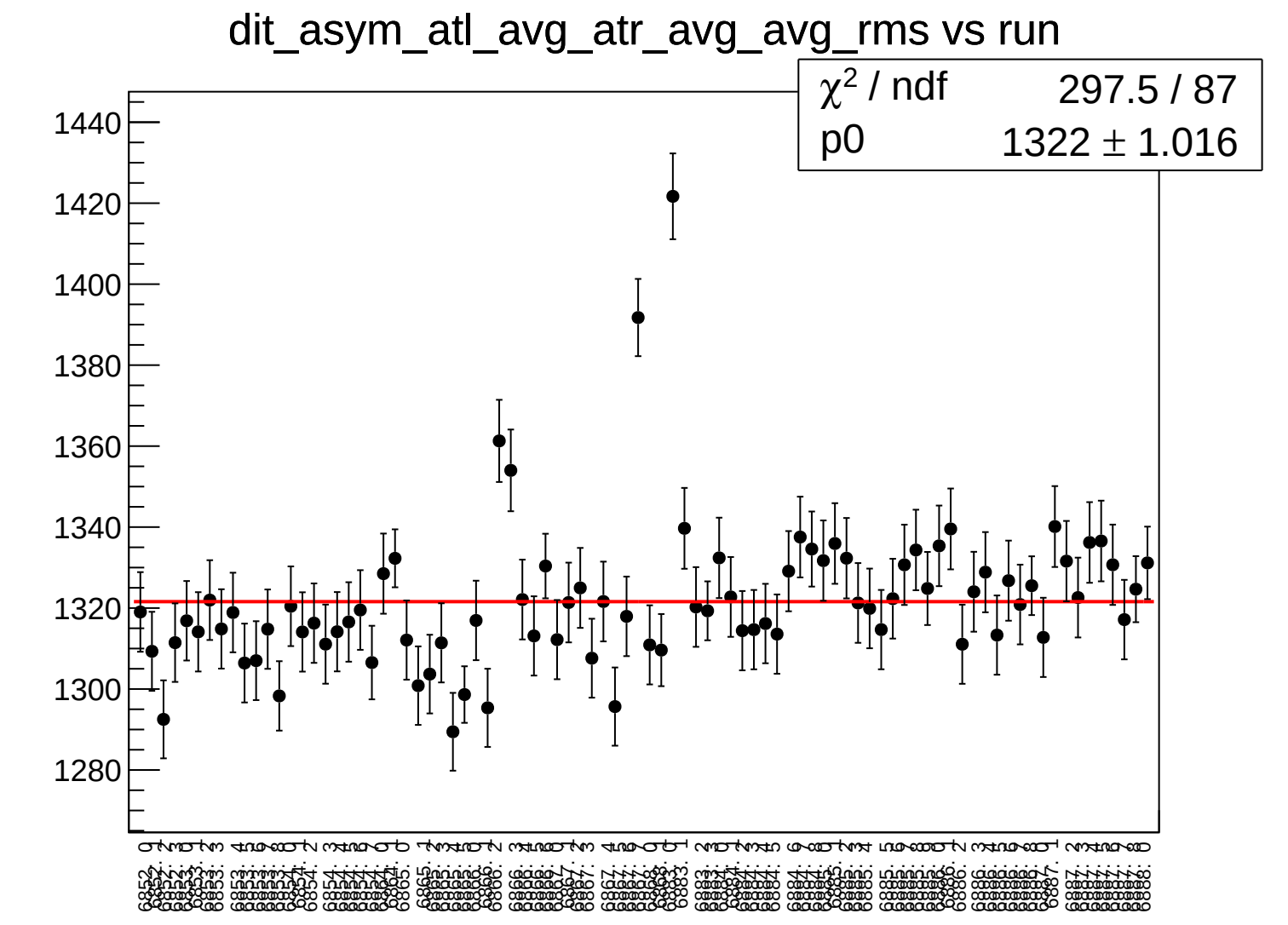

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 195.1 / 87
p0 1277 ± 0.9825
1400
1380
1360
1340
1320
1300
1280
1260
1240

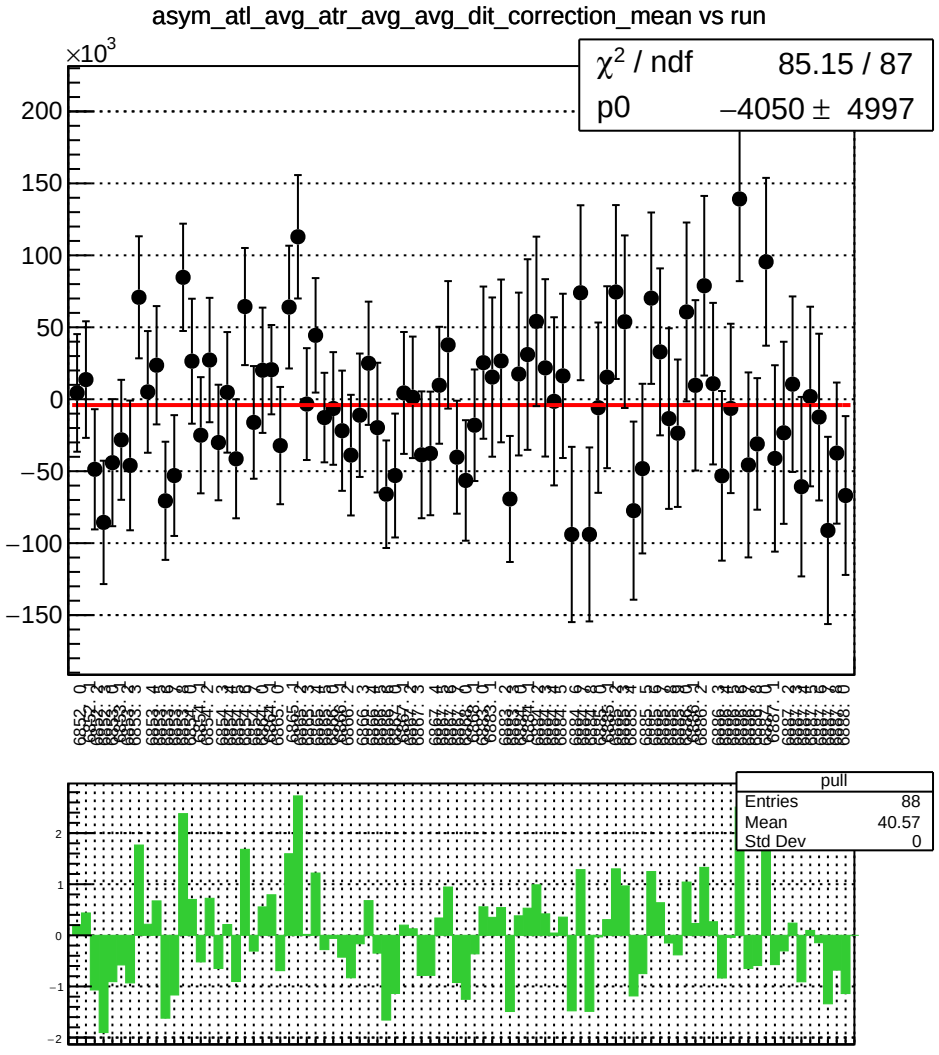

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.33 / 87
p0 −3921 ± 4719
pull
Entries 88
Mean 43.18
Std Dev 0
pull1D
Entries 88
Mean 0.01456
Std Dev 0.9903

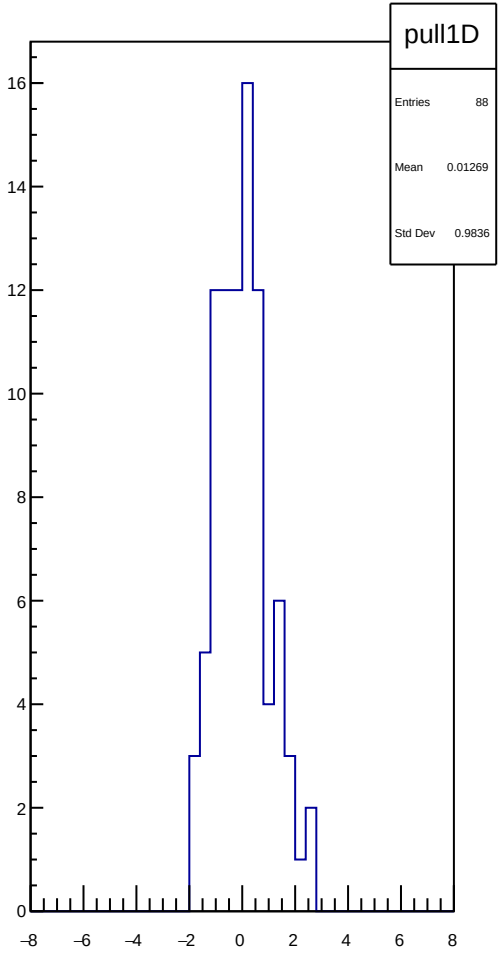

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.294e+04 / 87
p0 4271 ± 3.337
6000
5500
5000
4500
4000
3500

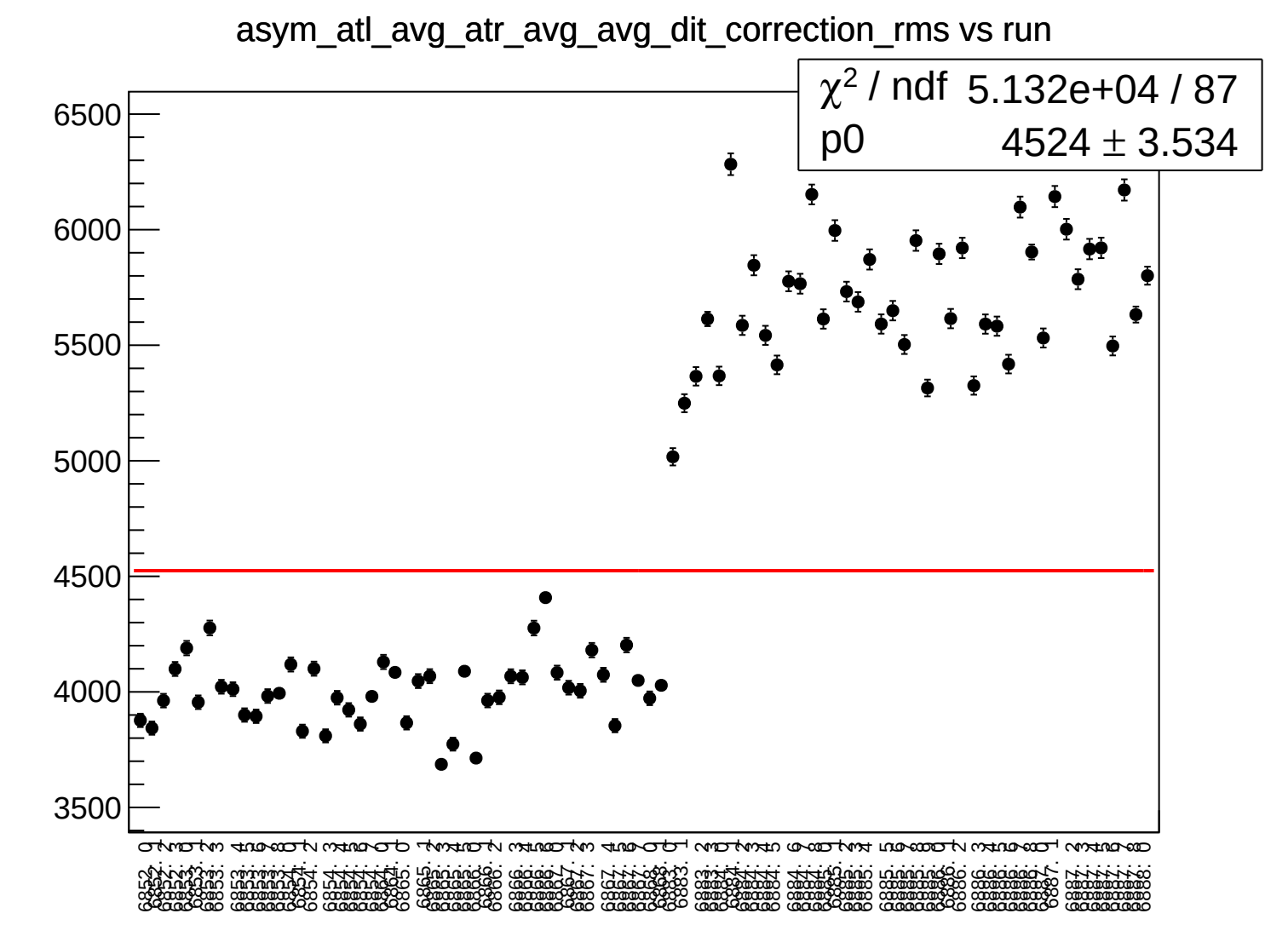

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 82.42 / 87
p0 −308.6 ± 1437
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −274.5
Std Dev 0
2
1
0
−1
−2

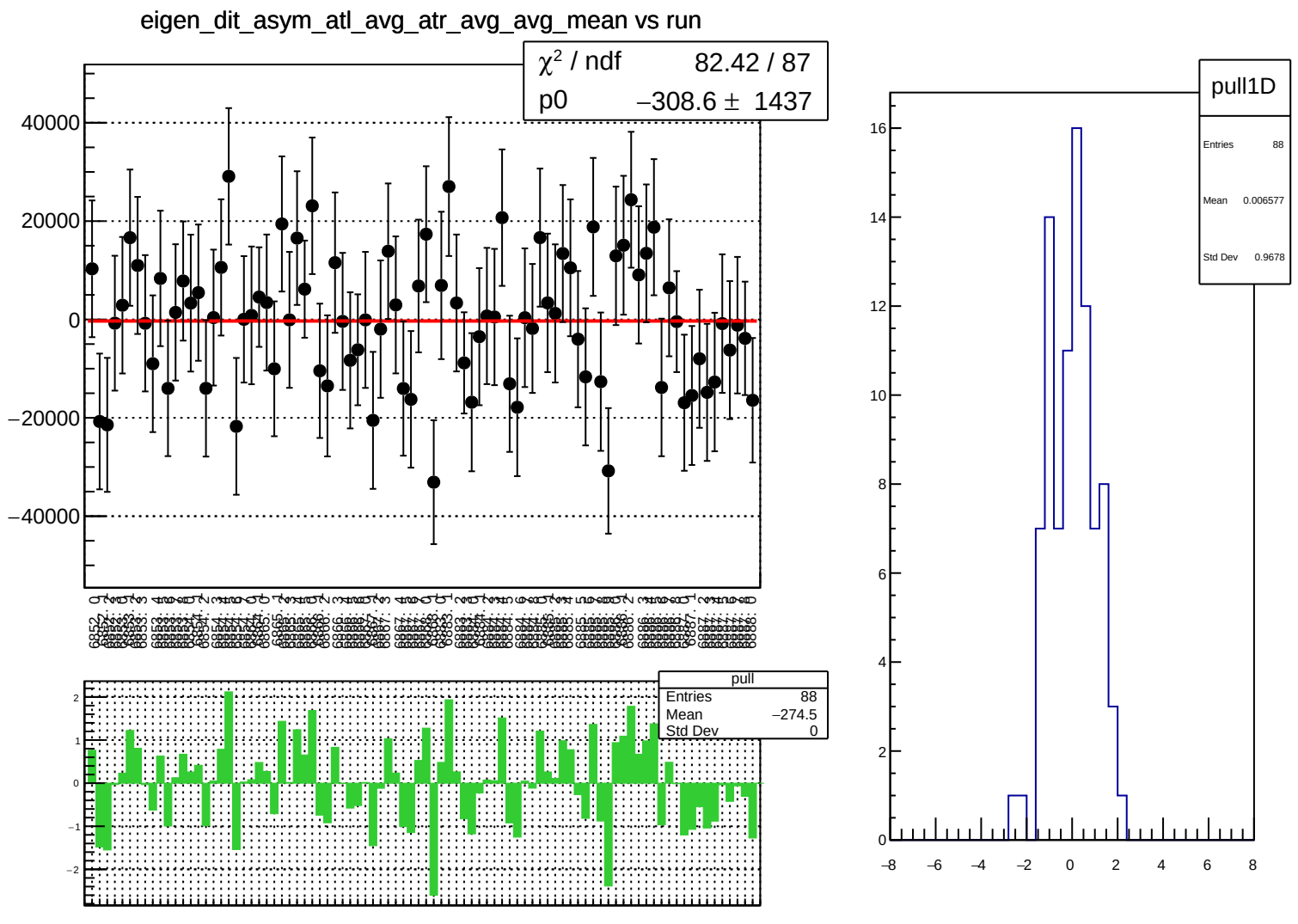

pull1D
Entries 88
Mean 0.006577
Std Dev 0.9678
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

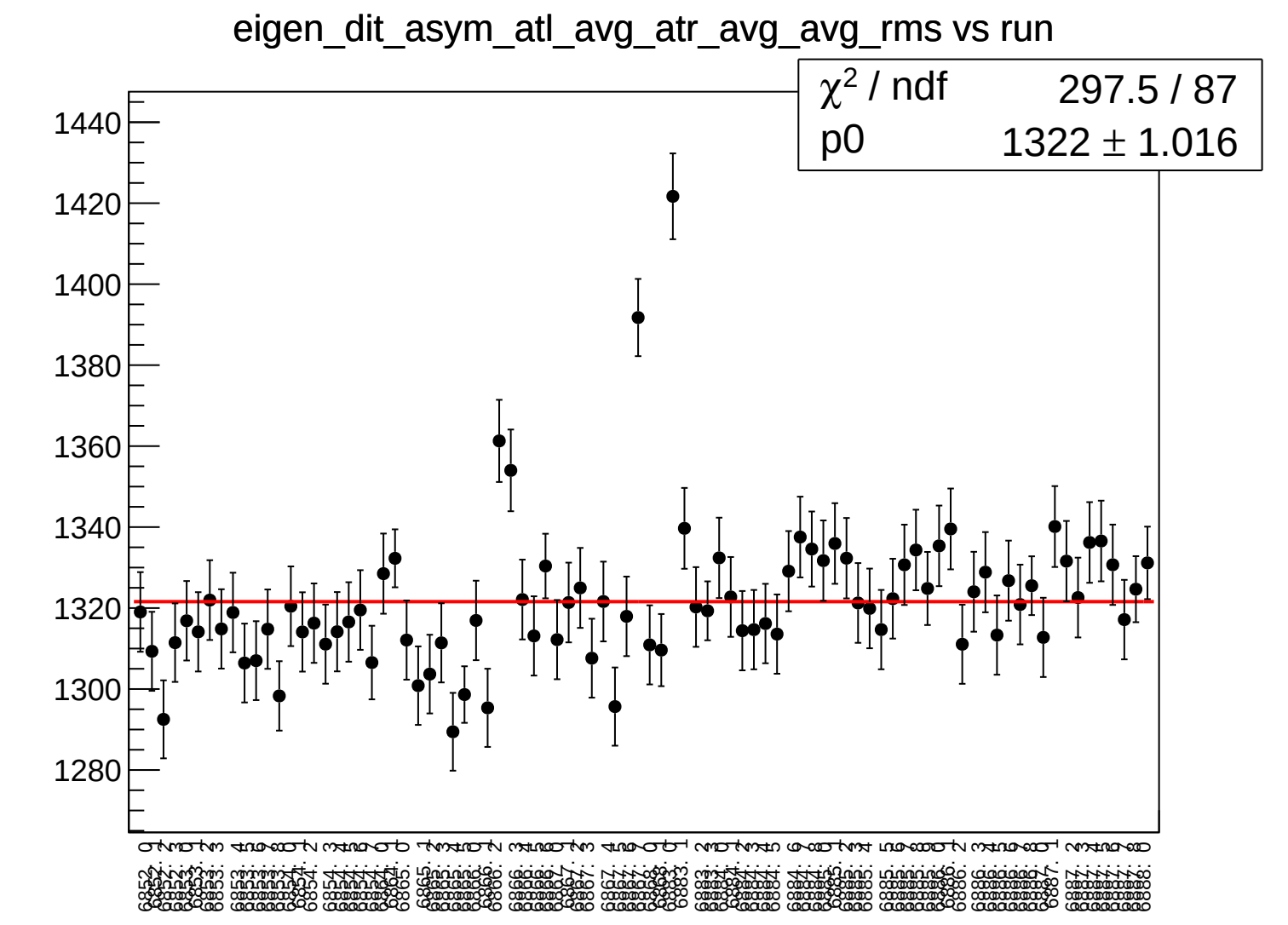

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 297.5 / 87
p0 1322 ± 1.016
1440
1420
1400
1380
1360
1340
1320
1300
1280

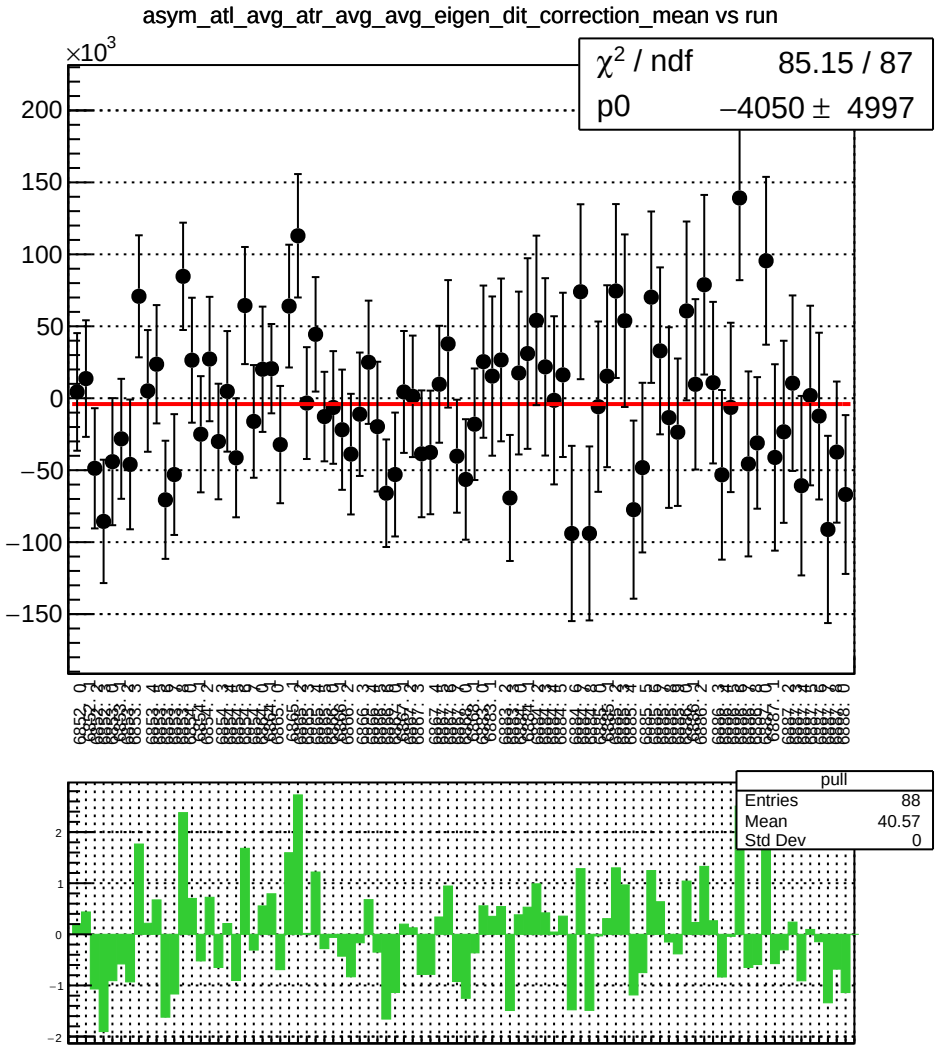

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
χ² / ndf 85.15 / 87
p0 −4050 ± 4997
×10³
pull
Entries 88
Mean 40.57
Std Dev 0

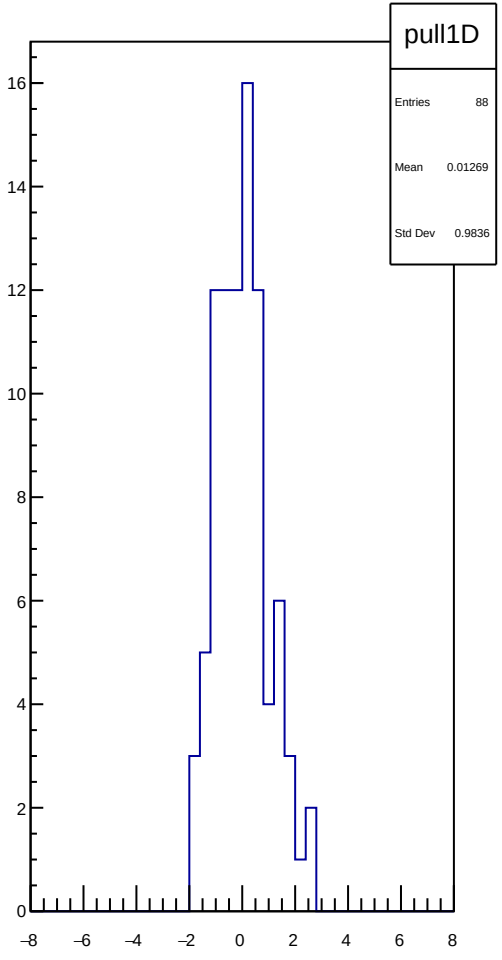

pull1D
Entries 88
Mean 0.01269
Std Dev 0.9836

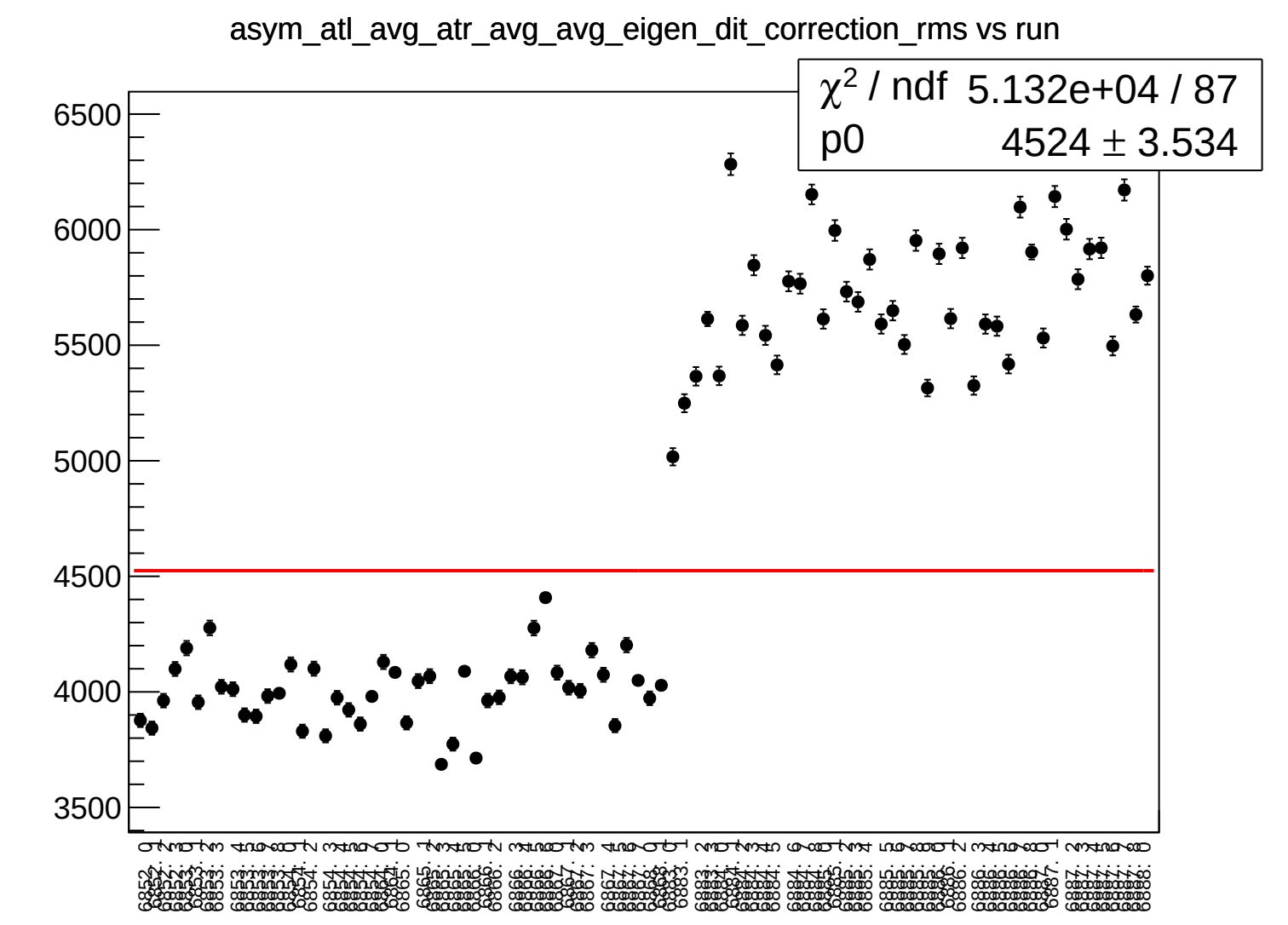

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 5.132e+04 / 87
p0 4524 ± 3.534
6500
6000
5500
5000
4500
4000
3500

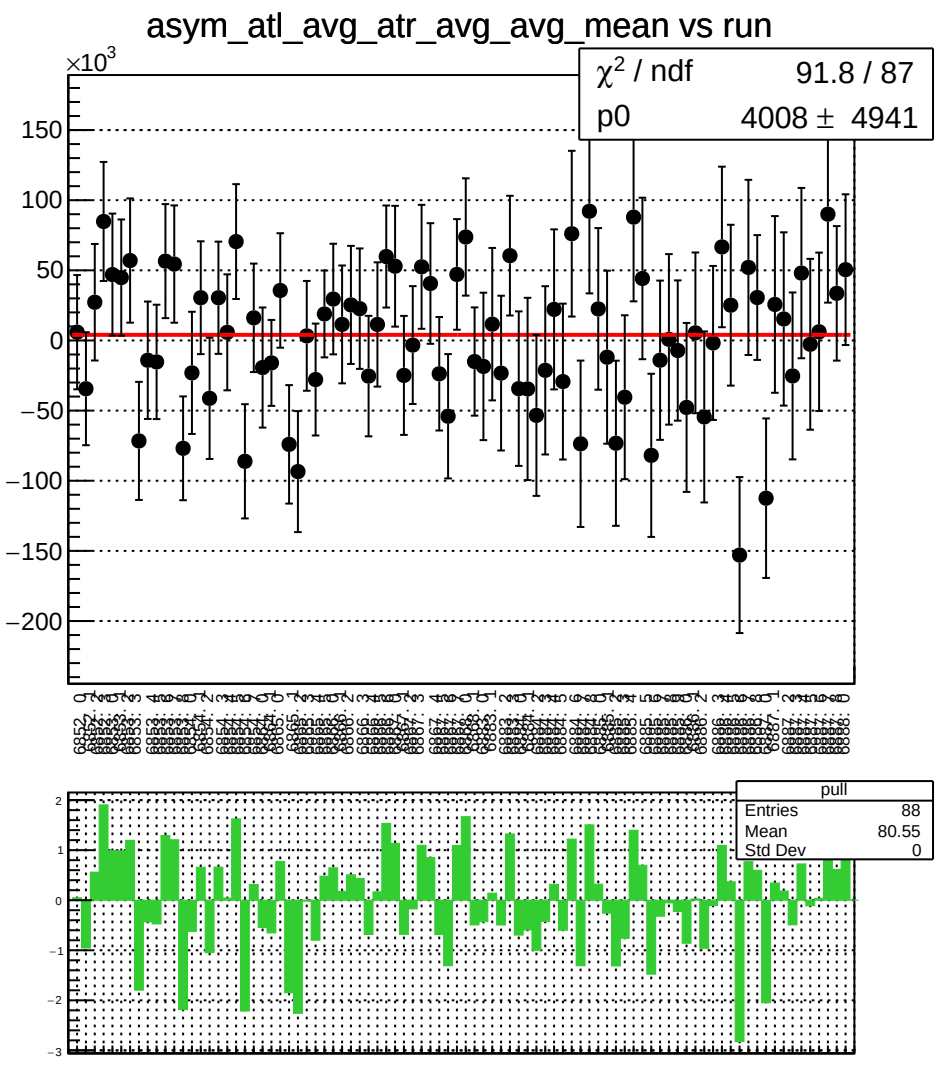

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 82.42 / 87
p0 −308.6 ± 1437
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −274.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.006577
Std Dev 0.9678
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

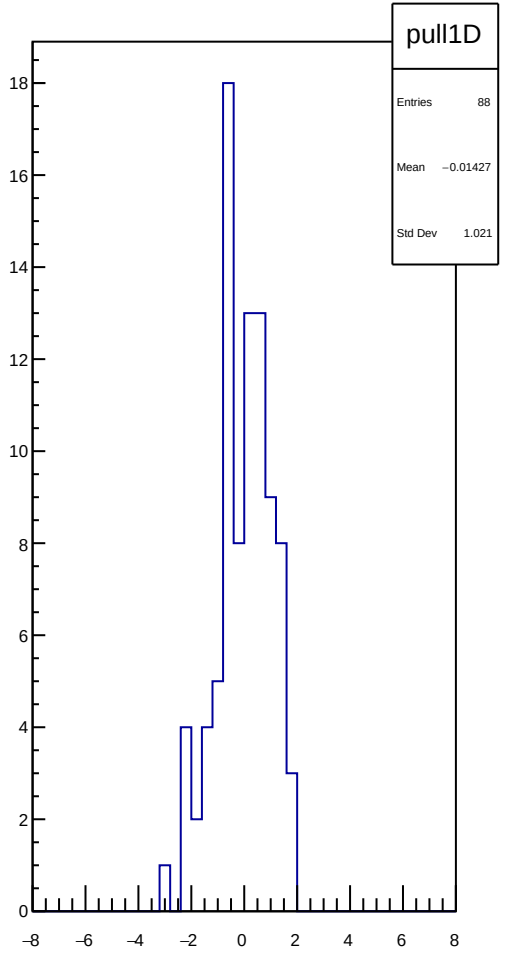

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 297.5 / 87
p0 1322 ± 1.016
1440
1420
1400
1380
1360
1340
1320
1300
1280

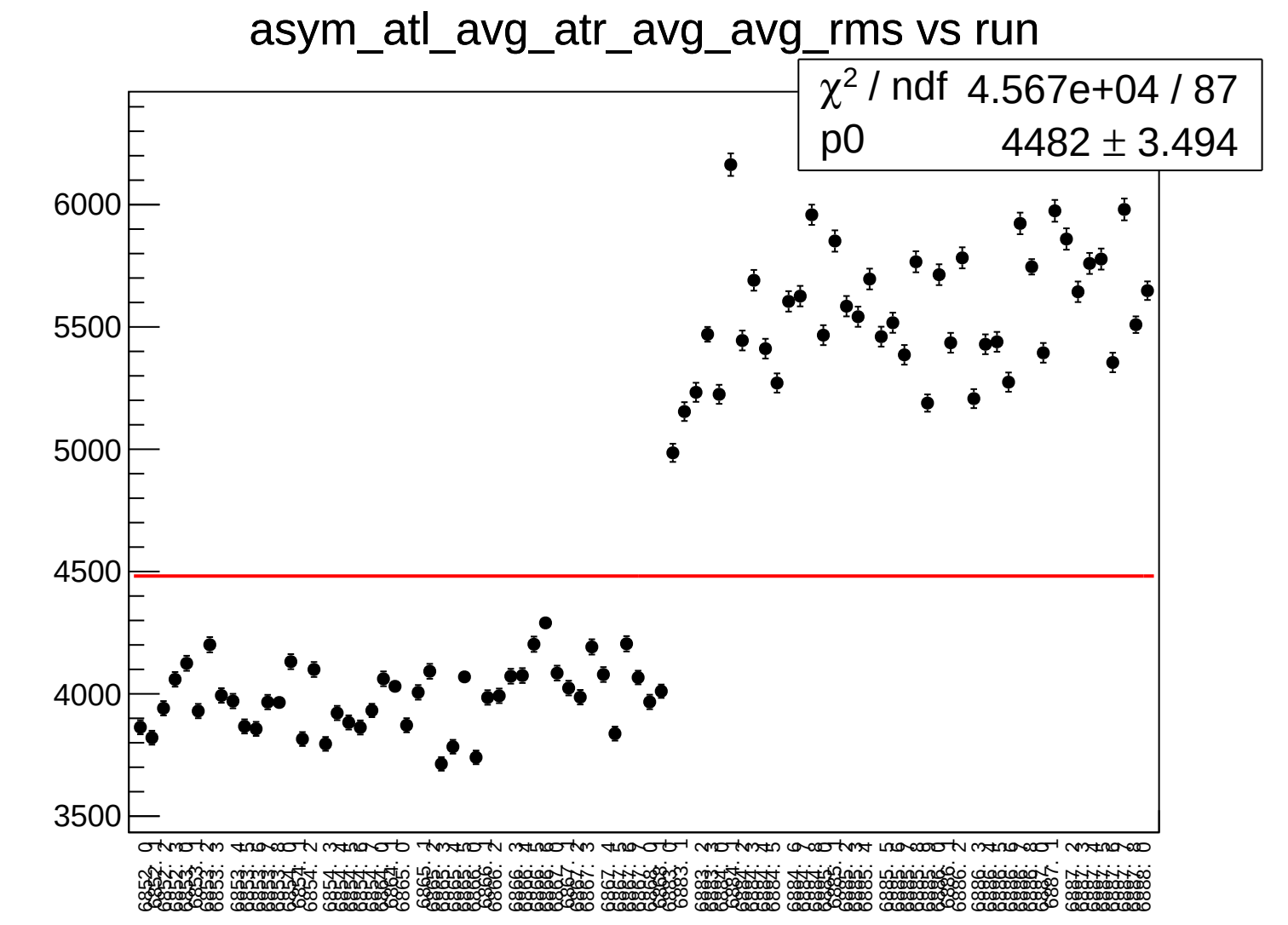

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.15 / 87
p0 −4050 ± 4997
200
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 40.57
Std Dev 0
2
1
0
−1
−2

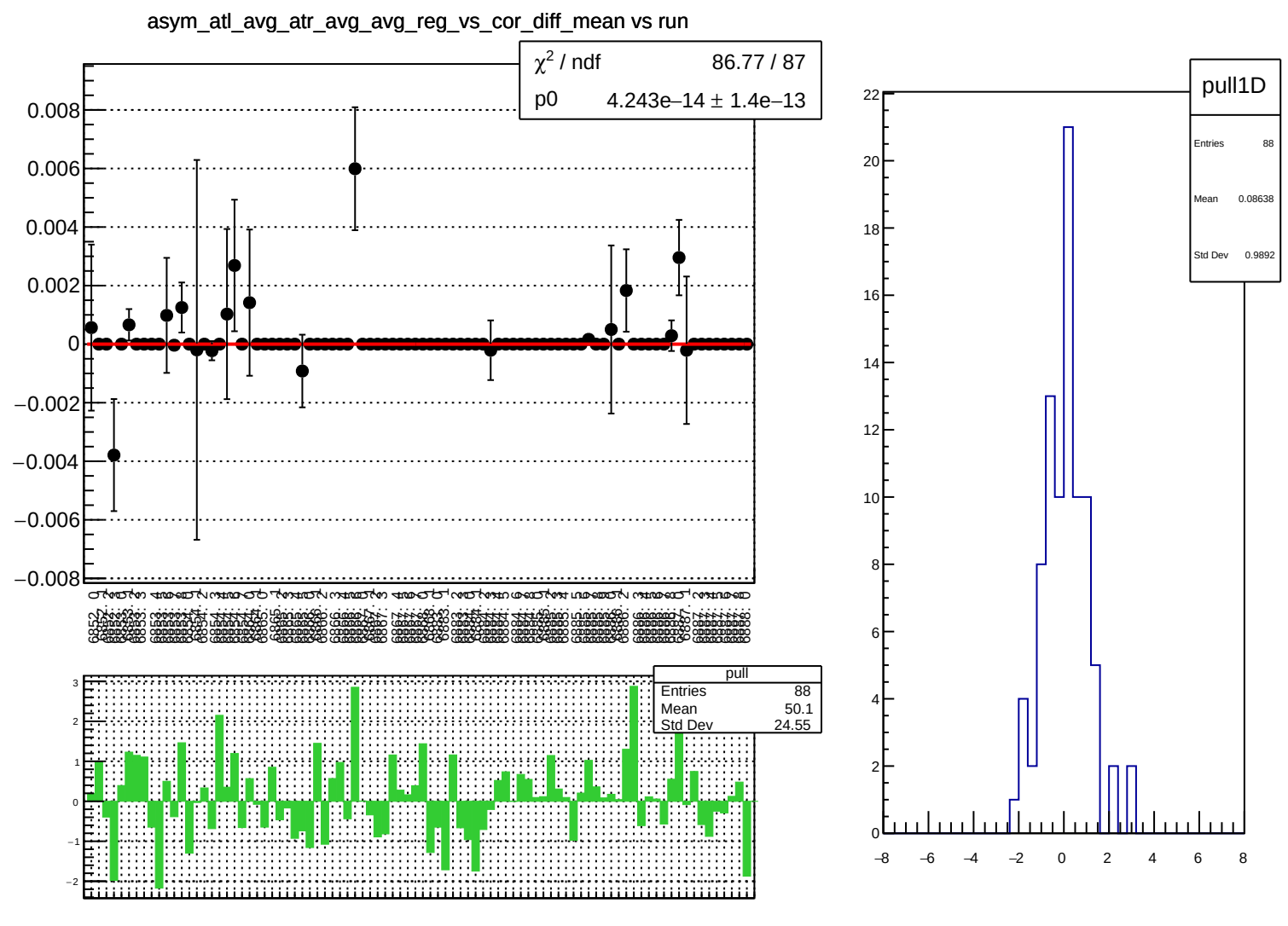

pull1D
Entries 88
Mean 0.01269
Std Dev 0.9836
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

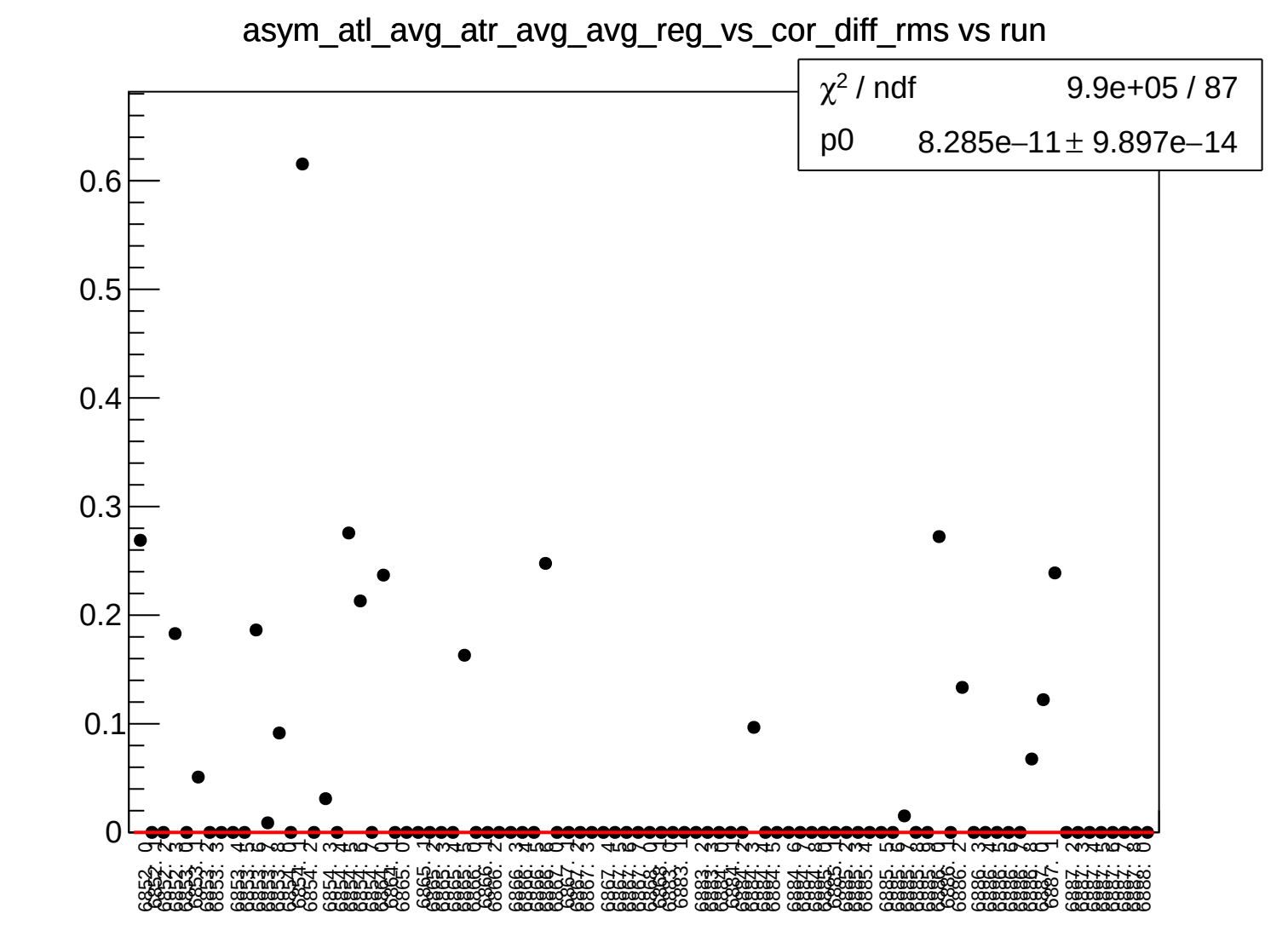

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.132e+04 / 87
p0 4524 ± 3.534
6500
6000
5500
5000
4500
4000
3500

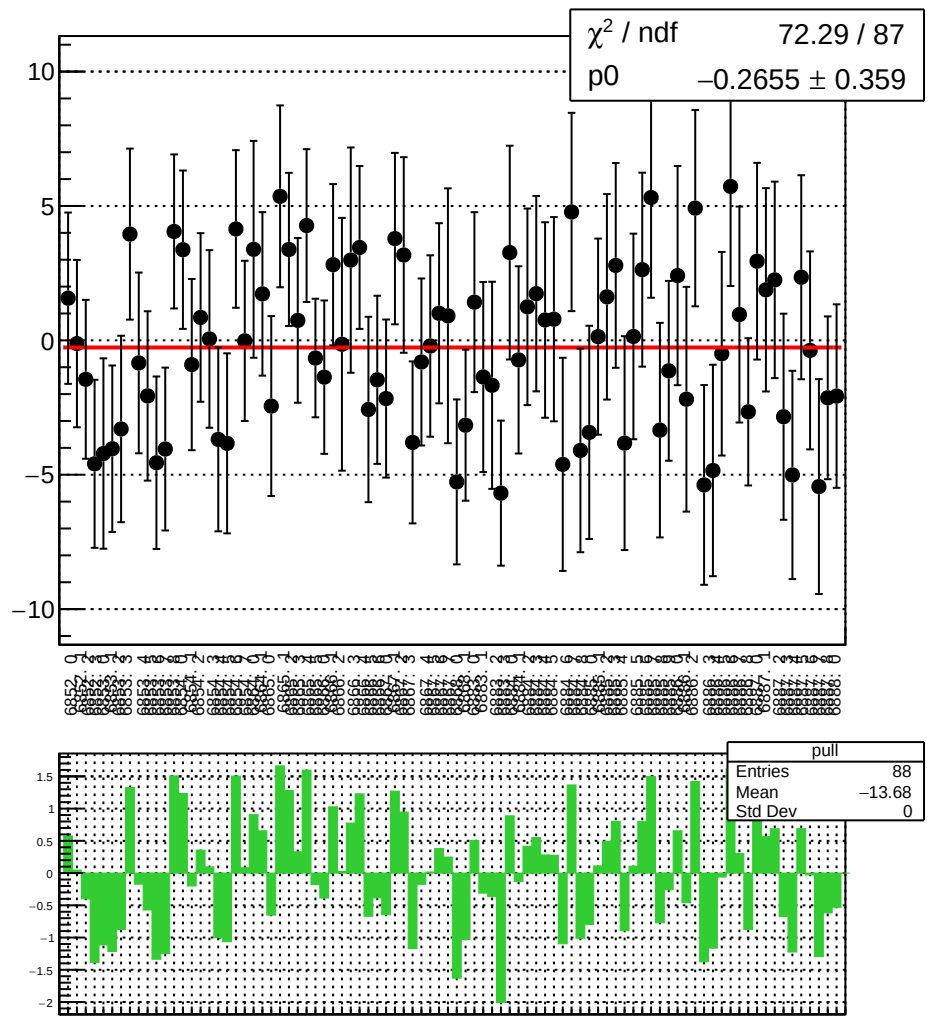

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 91.8 / 87
p0 4008 ± 4941
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 80.55
Std Dev 0
2
1
0
−1
−2
−3

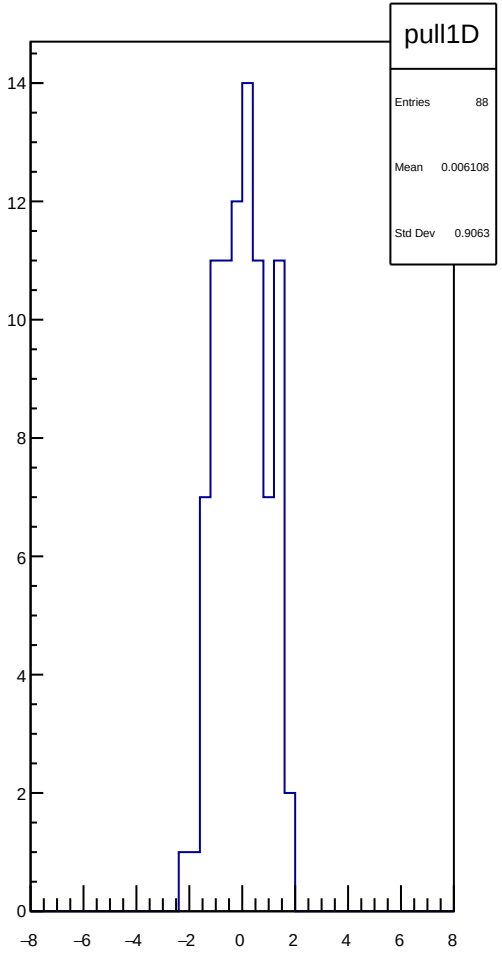

pull1D
Entries 88
Mean −0.01427
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

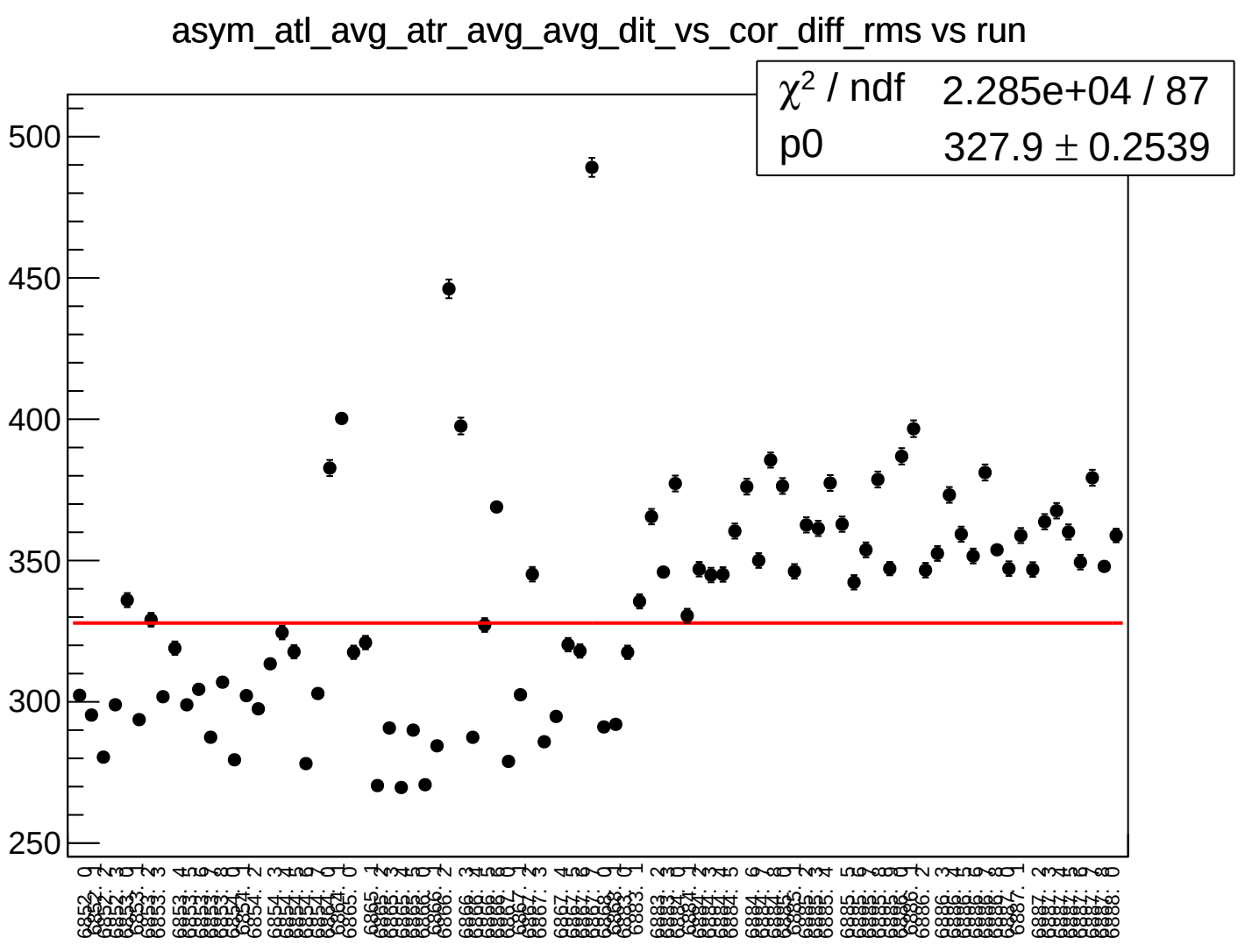

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4.567e+04 / 87
p0 4482 ± 3.494
6000
5500
5000
4500
4000
3500

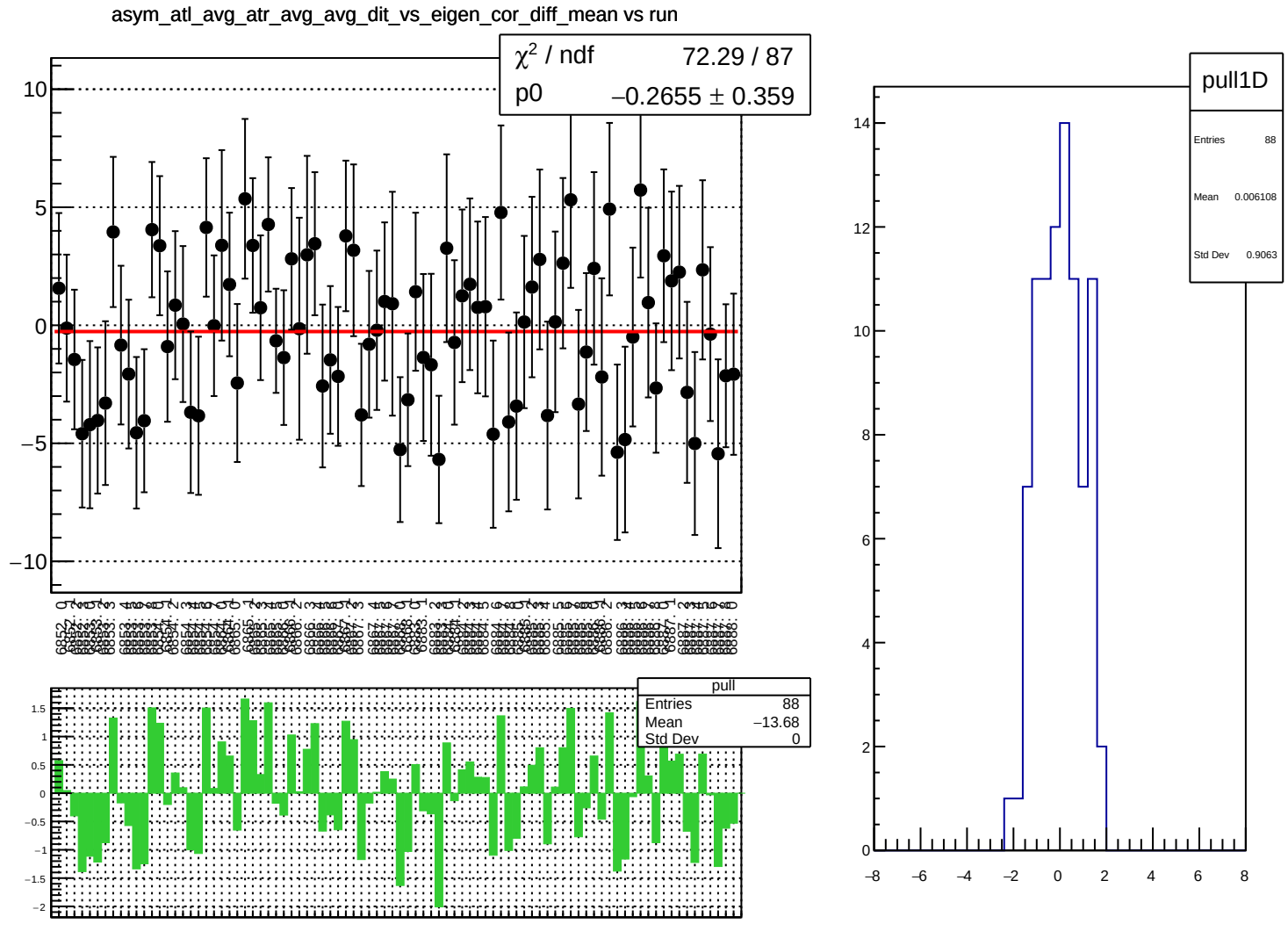

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.77 / 87
p0 4.243e−14 ± 1.4e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 88
Mean 50.1
Std Dev 24.55
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.08638
Std Dev 0.9892
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

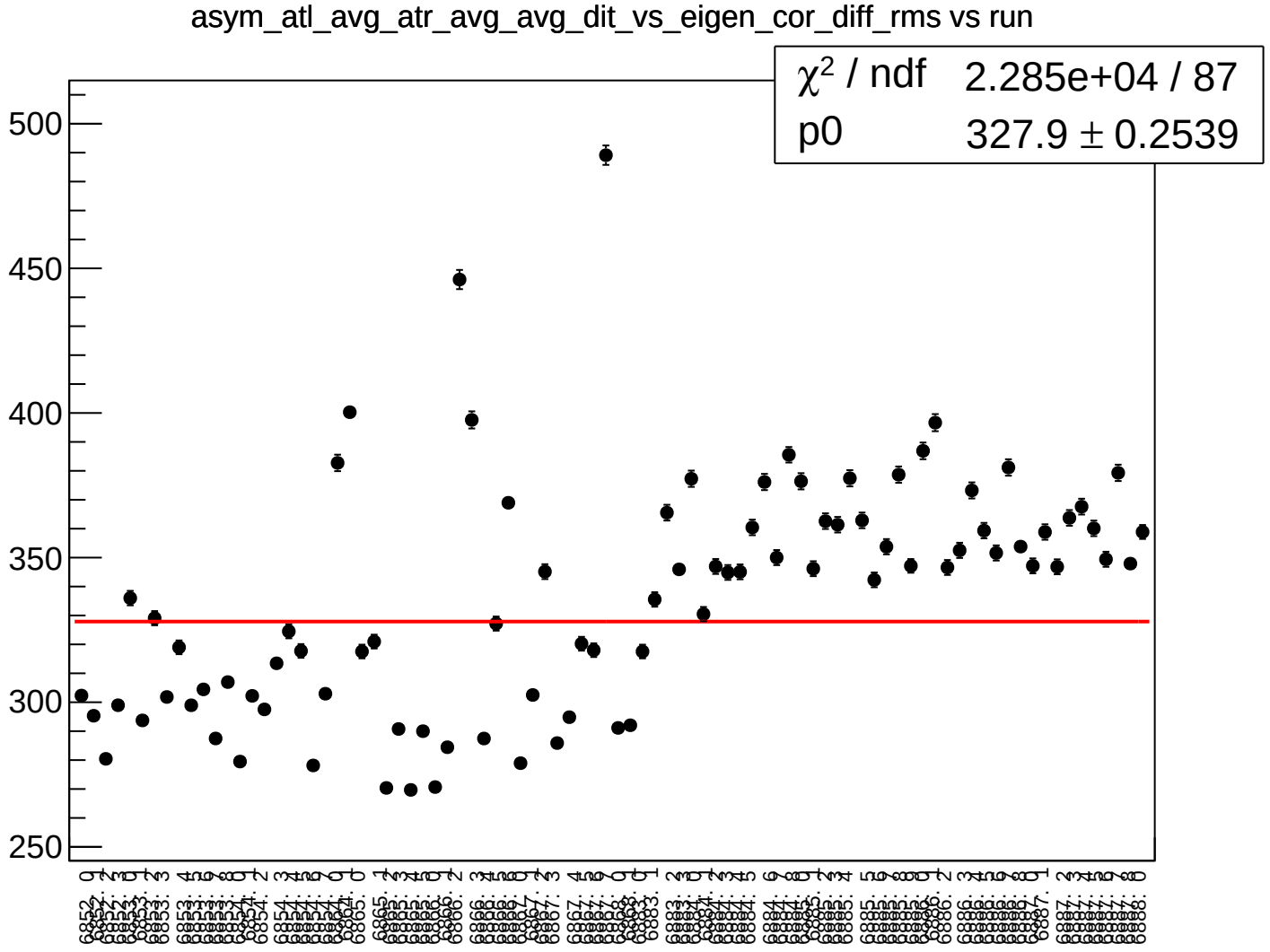

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.9e+05 / 87
p0 8.285e−11 ± 9.897e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

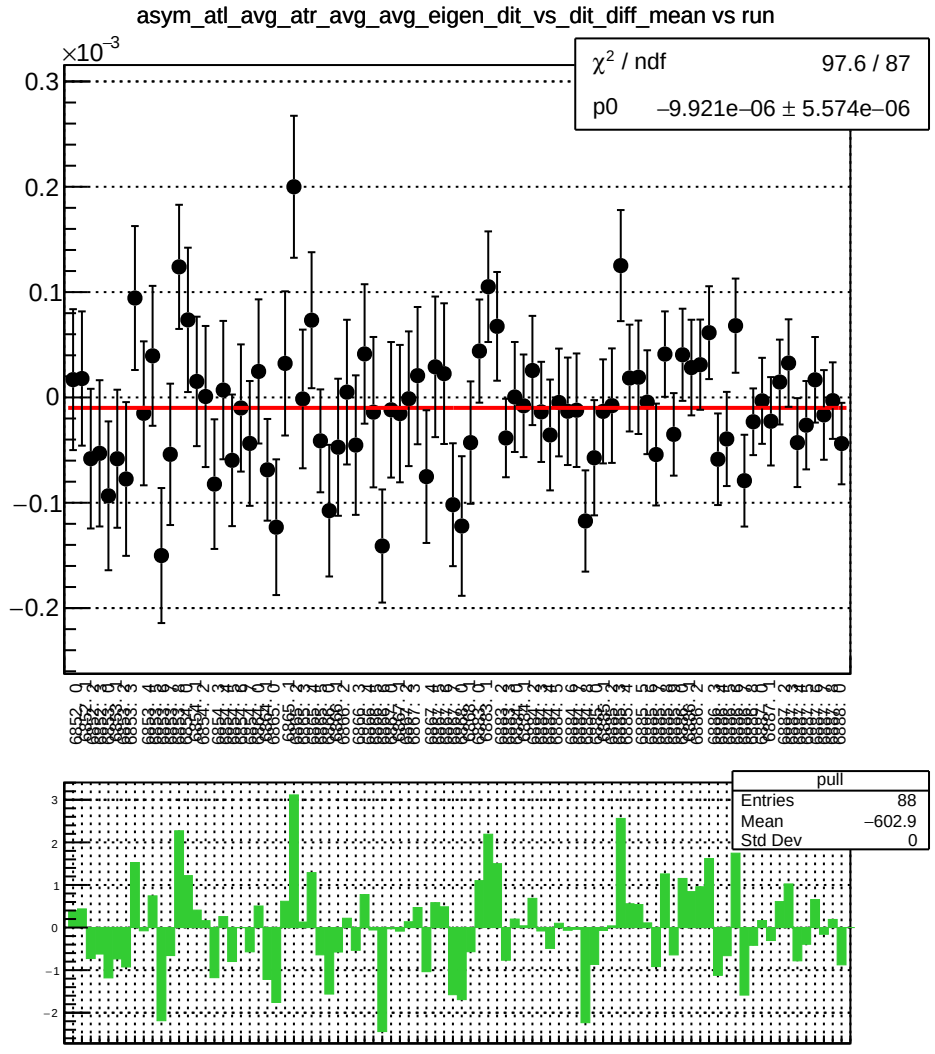

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.29 / 87
p0 −0.2655 ± 0.359
pull
Entries 88
Mean −13.68
Std Dev 0

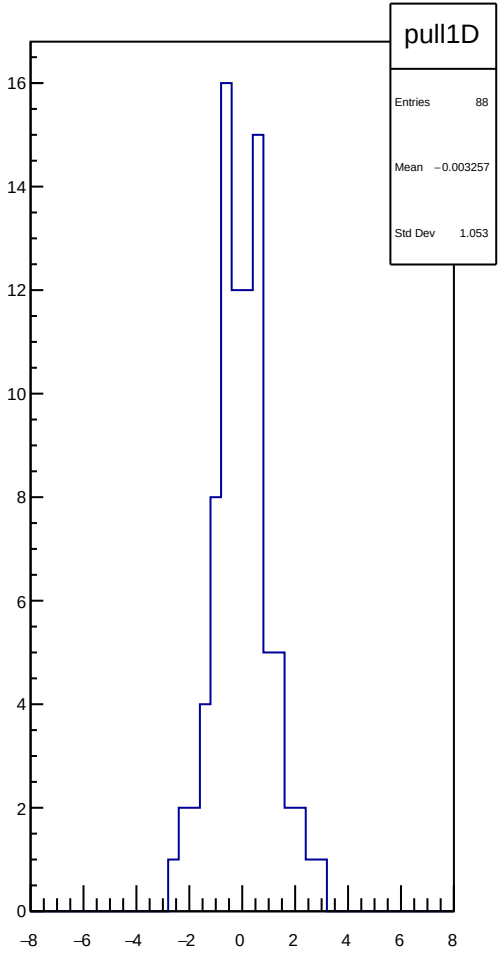

pull1D
Entries 88
Mean 0.006108
Std Dev 0.9063

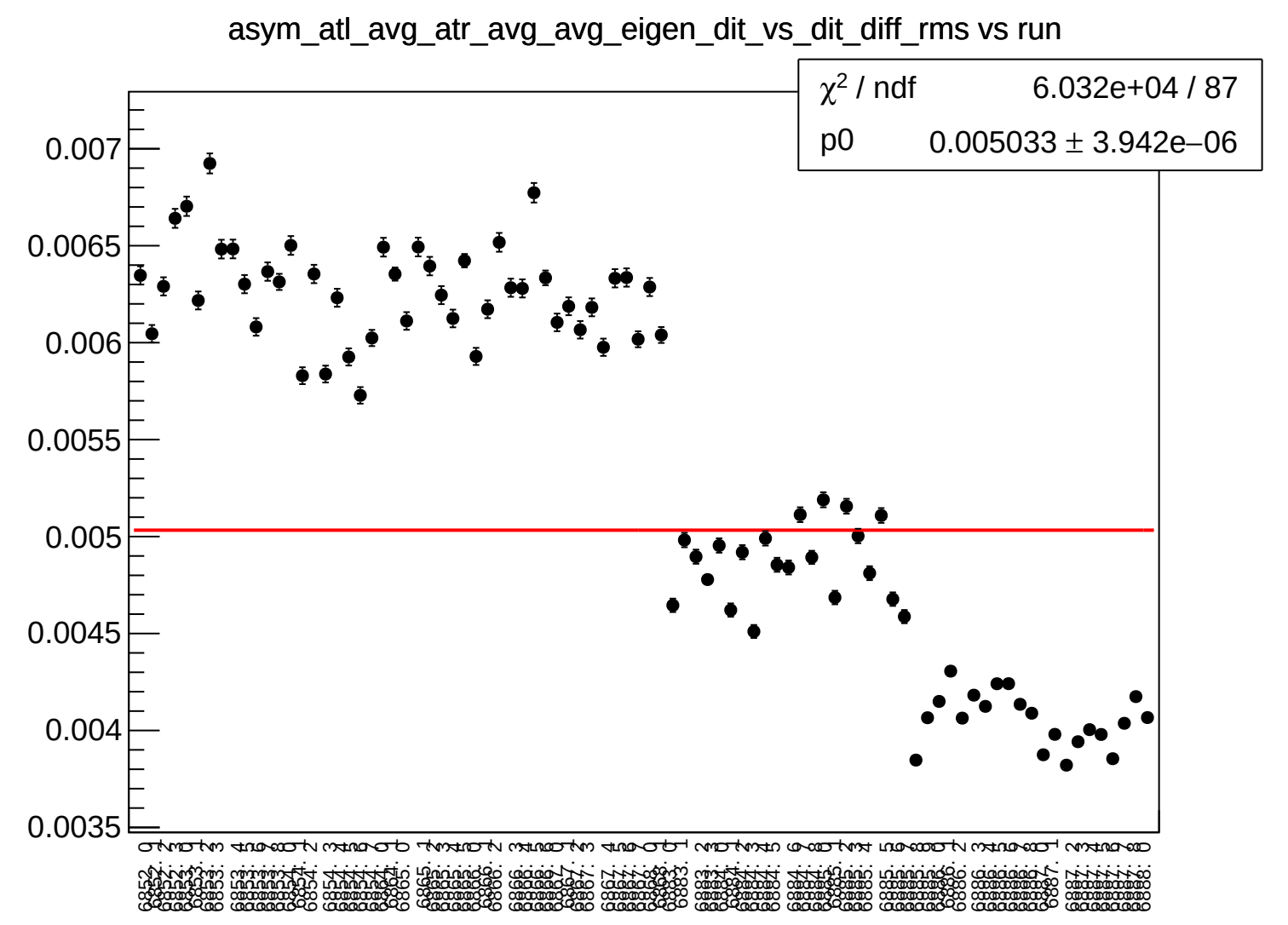

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.285e+04 / 87
p0 327.9 ± 0.2539
500
450
400
350
300
250

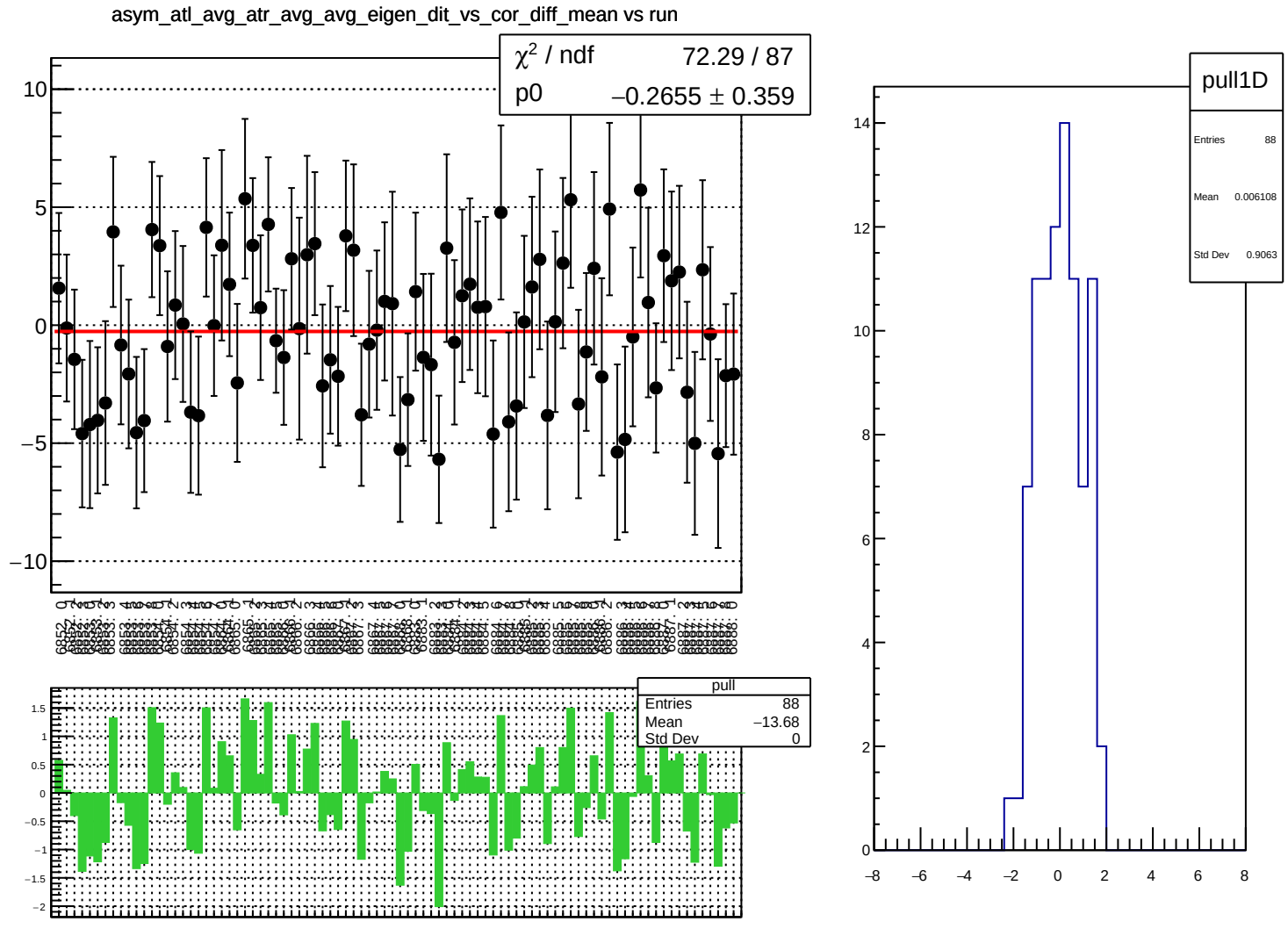

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.29 / 87
p0 −0.2655 ± 0.359
pull
Entries 88
Mean −13.68
Std Dev 0
pull1D
Entries 88
Mean 0.006108
Std Dev 0.9063

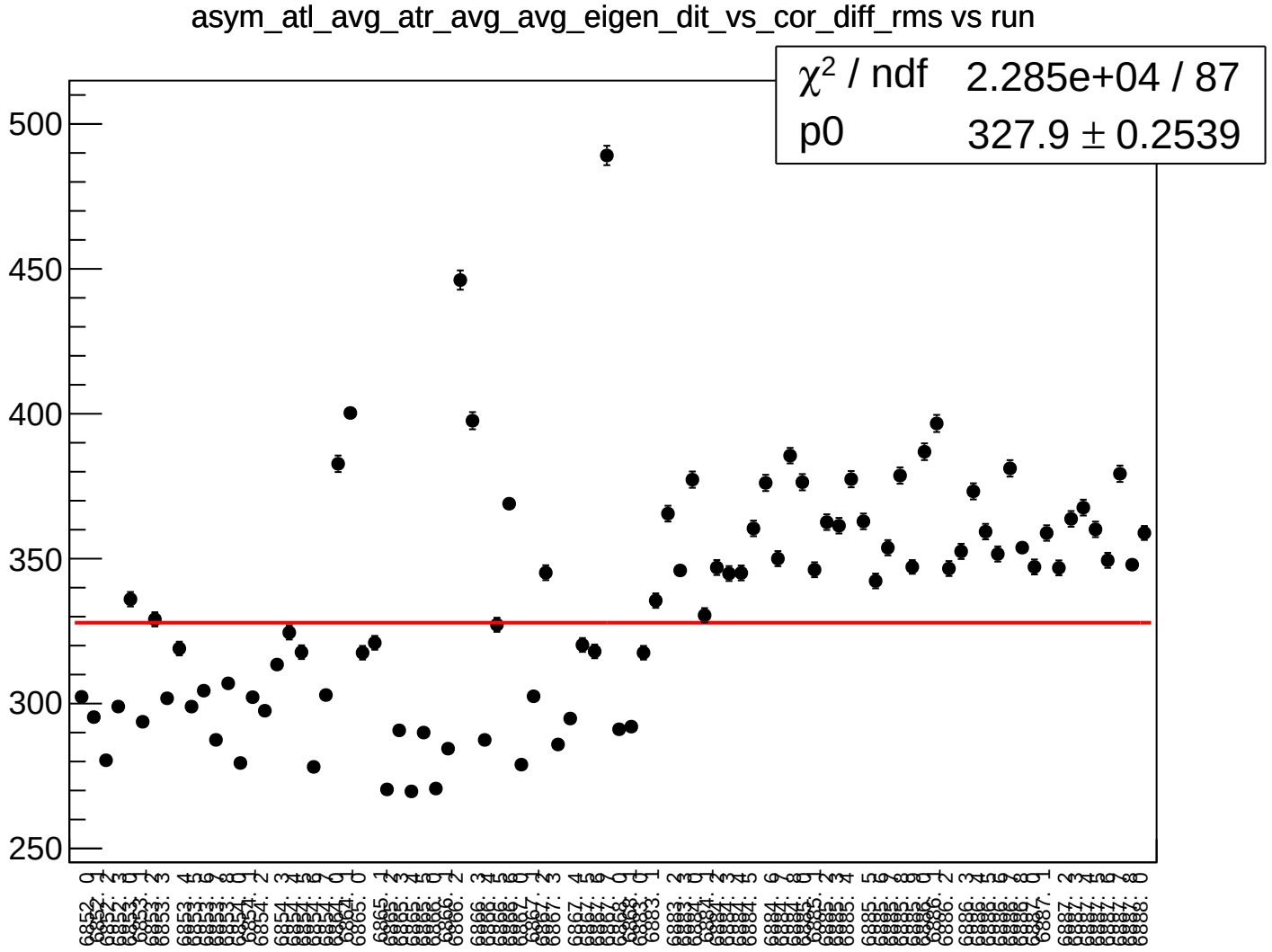

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.285e+04 / 87
p0 327.9 ± 0.2539
500
450
400
350
300
250

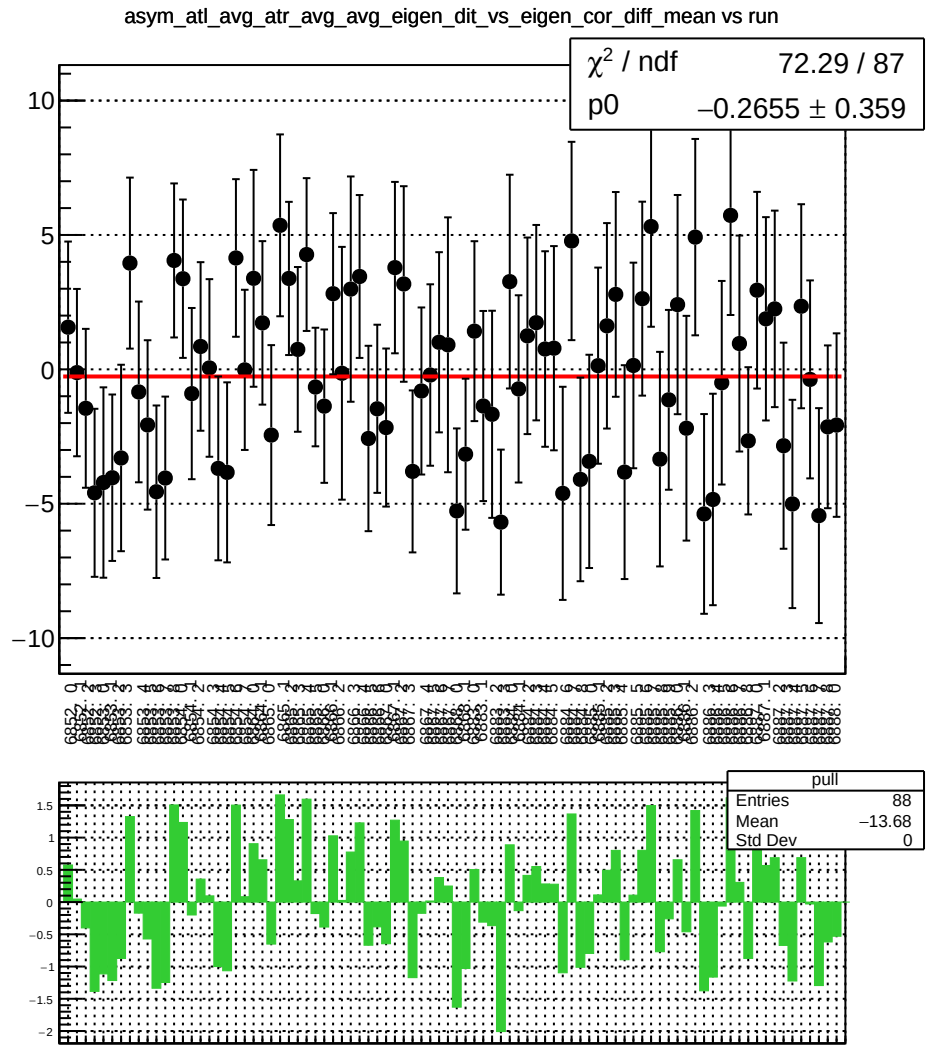

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.6 / 87
p0 −9.921e−06 ± 5.574e−06
pull
Entries 88
Mean −602.9
Std Dev 0

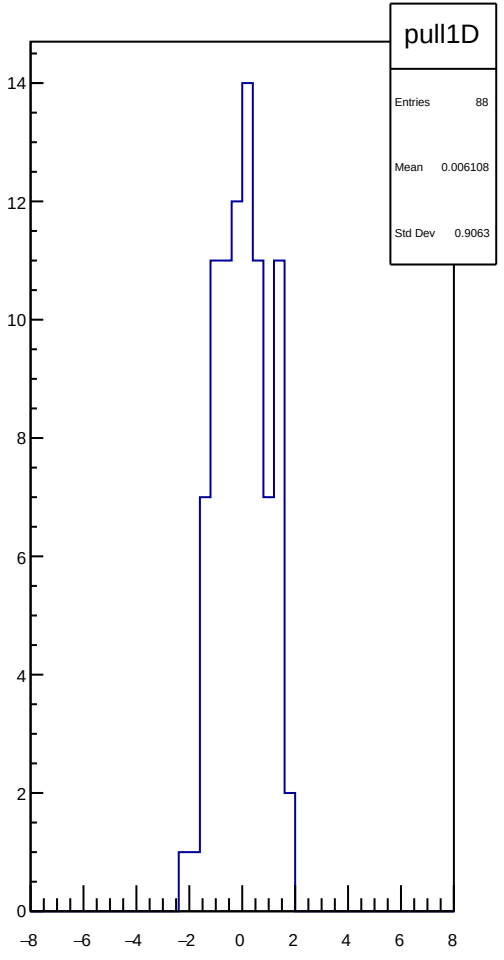

pull1D
Entries 88
Mean −0.003257
Std Dev 1.053

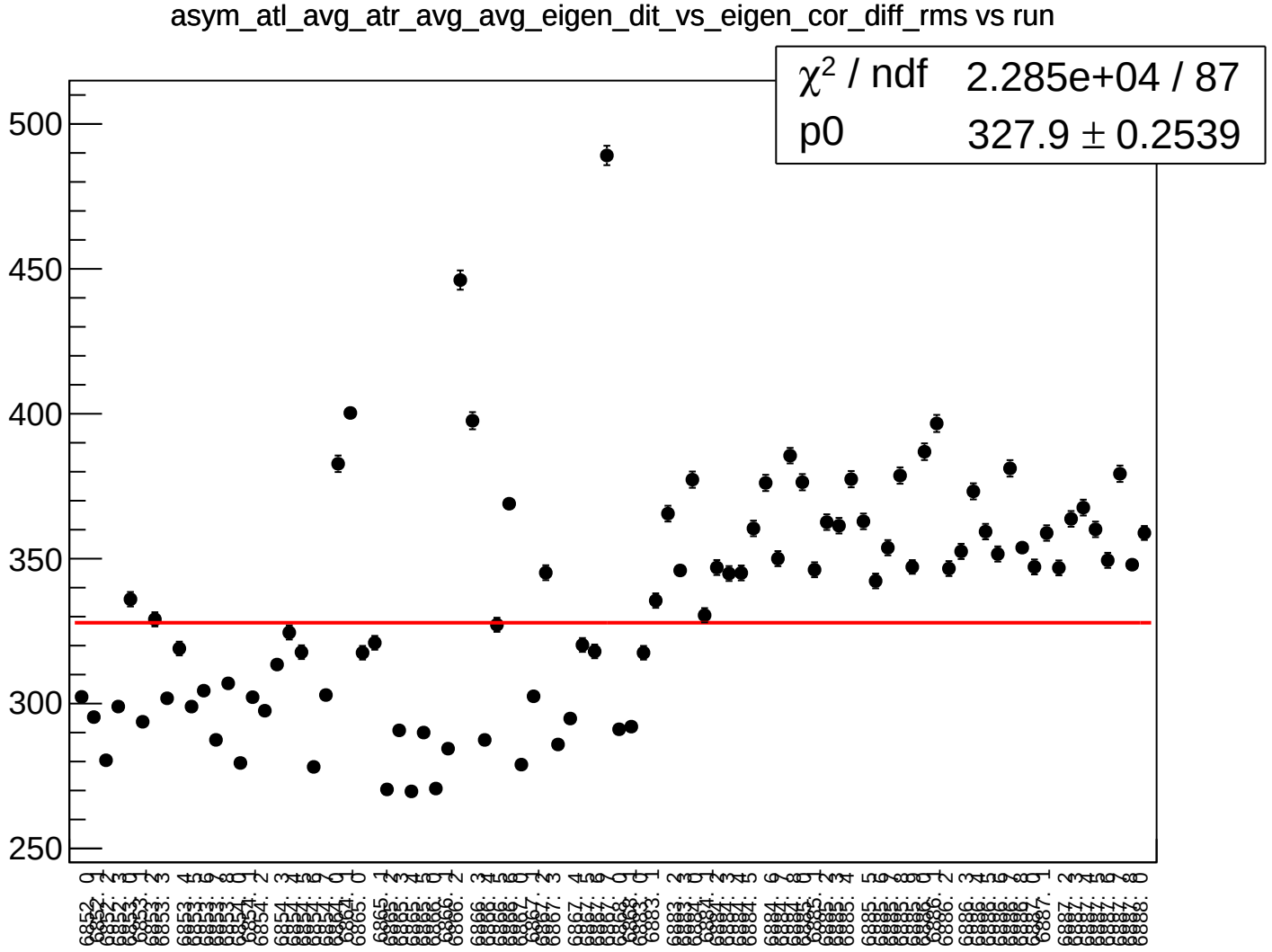

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.032e+04 / 87
p0 0.005033 ± 3.942e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

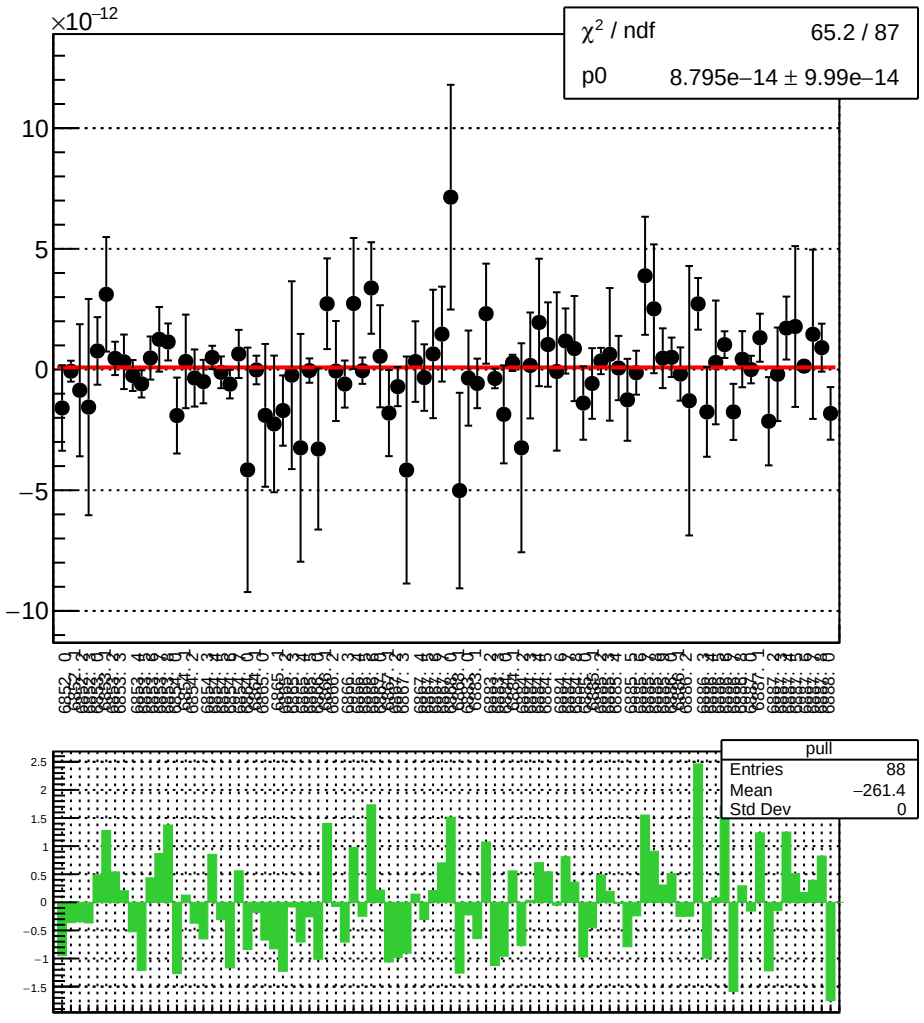

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.29 / 87
p0 −0.2655 ± 0.359
pull
Entries 88
Mean −13.68
Std Dev 0
pull1D
Entries 88
Mean 0.006108
Std Dev 0.9063

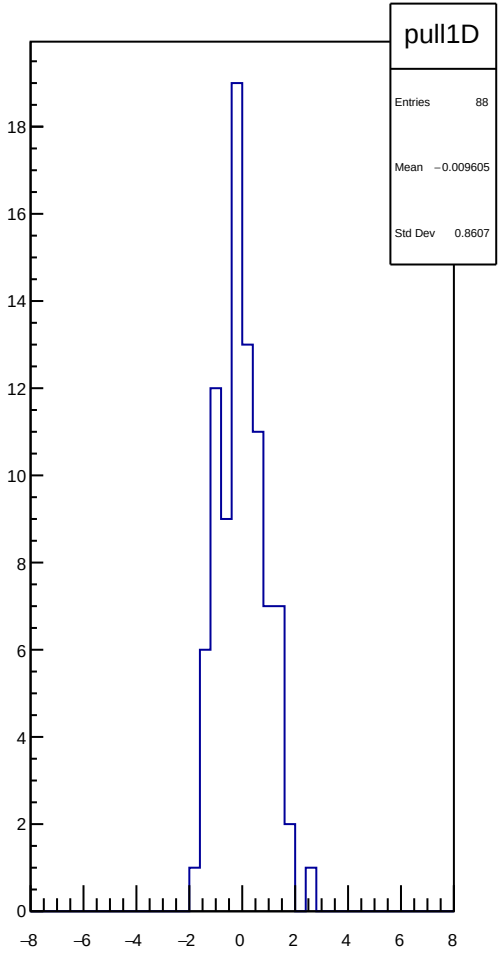

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.285e+04 / 87
p0 327.9 ± 0.2539
500
450
400
350
300
250

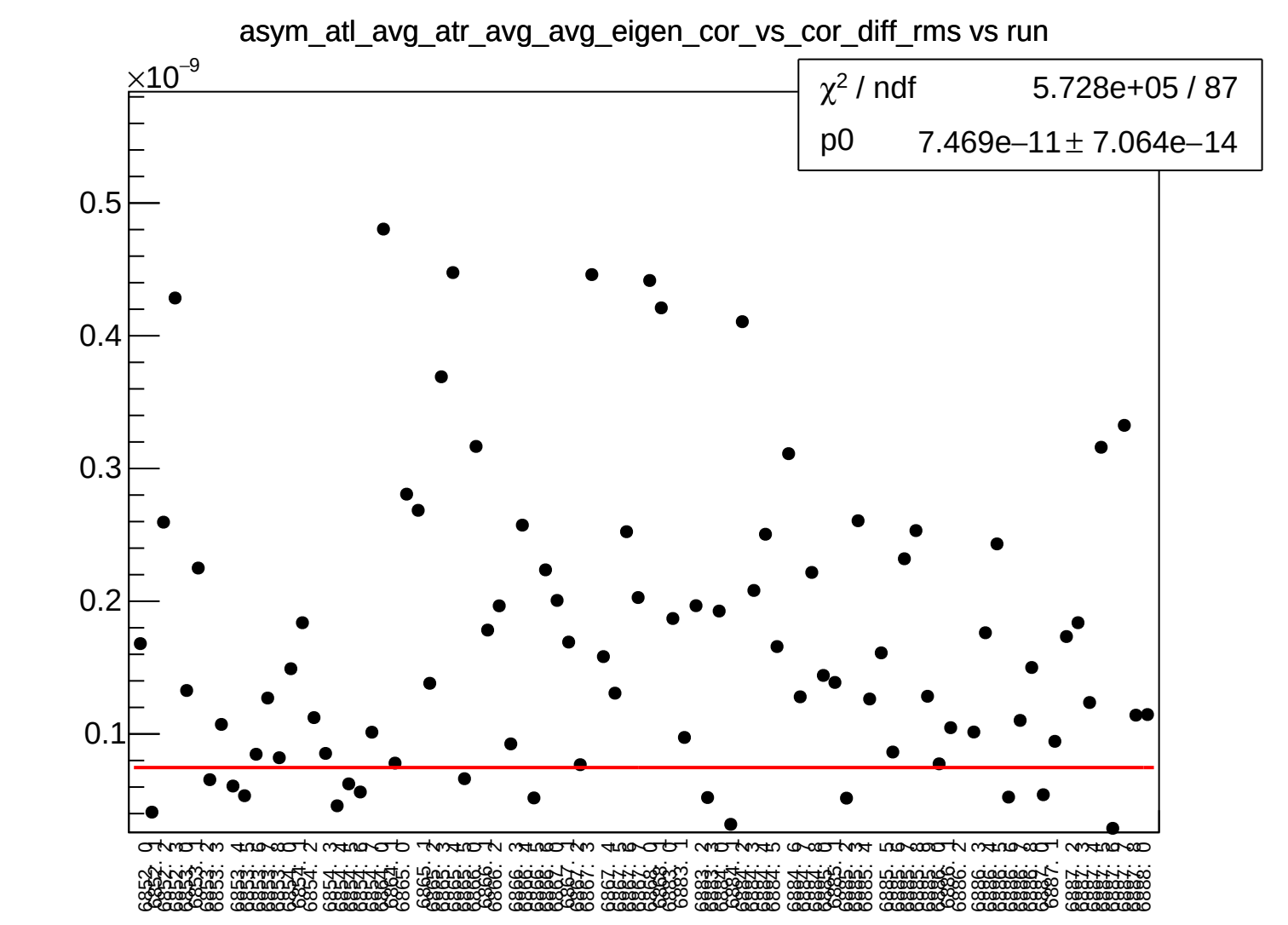

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.29 / 87
p0 −0.2655 ± 0.359
pull
Entries 88
Mean −13.68
Std Dev 0

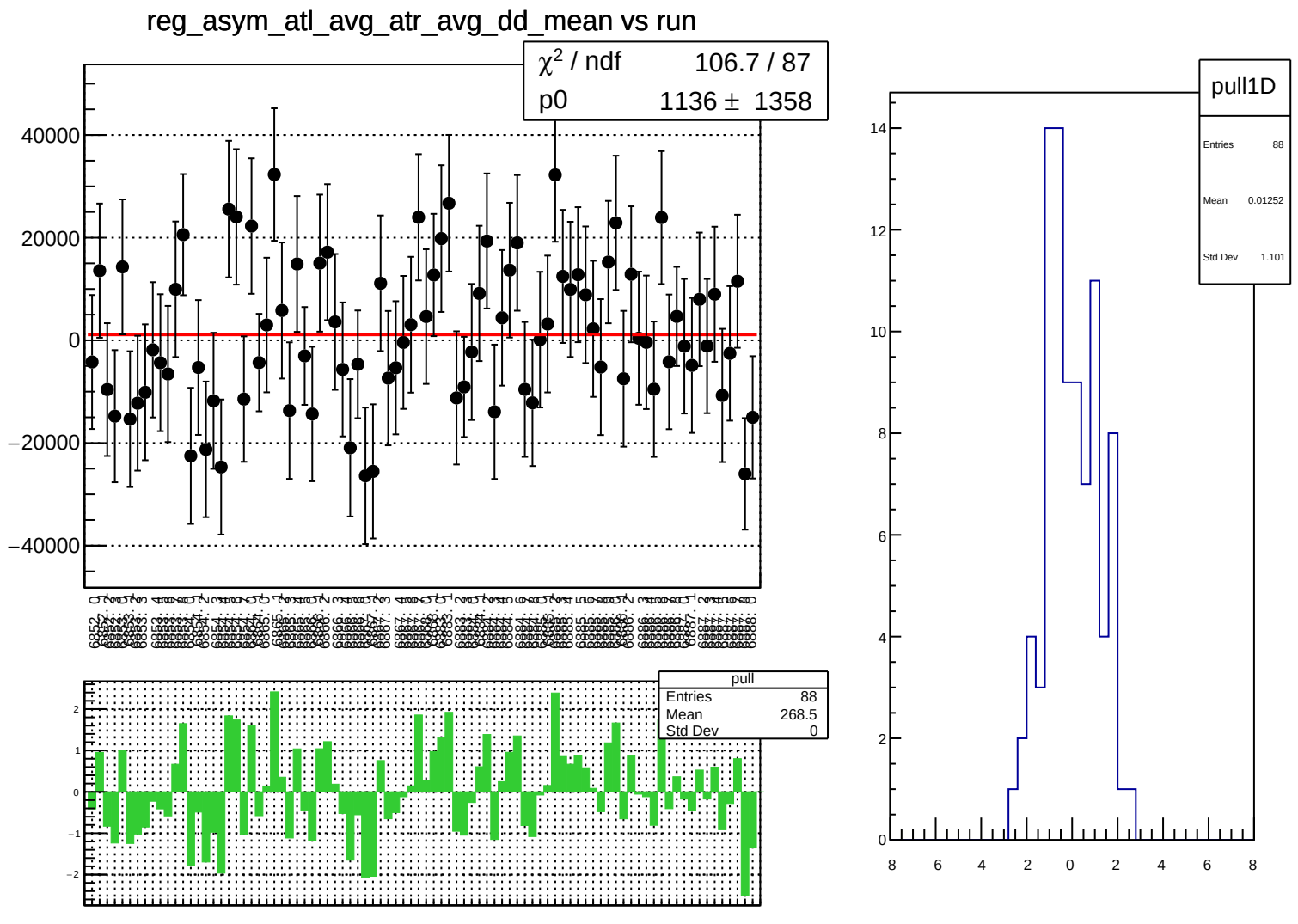

pull1D
Entries 88
Mean 0.006108
Std Dev 0.9063

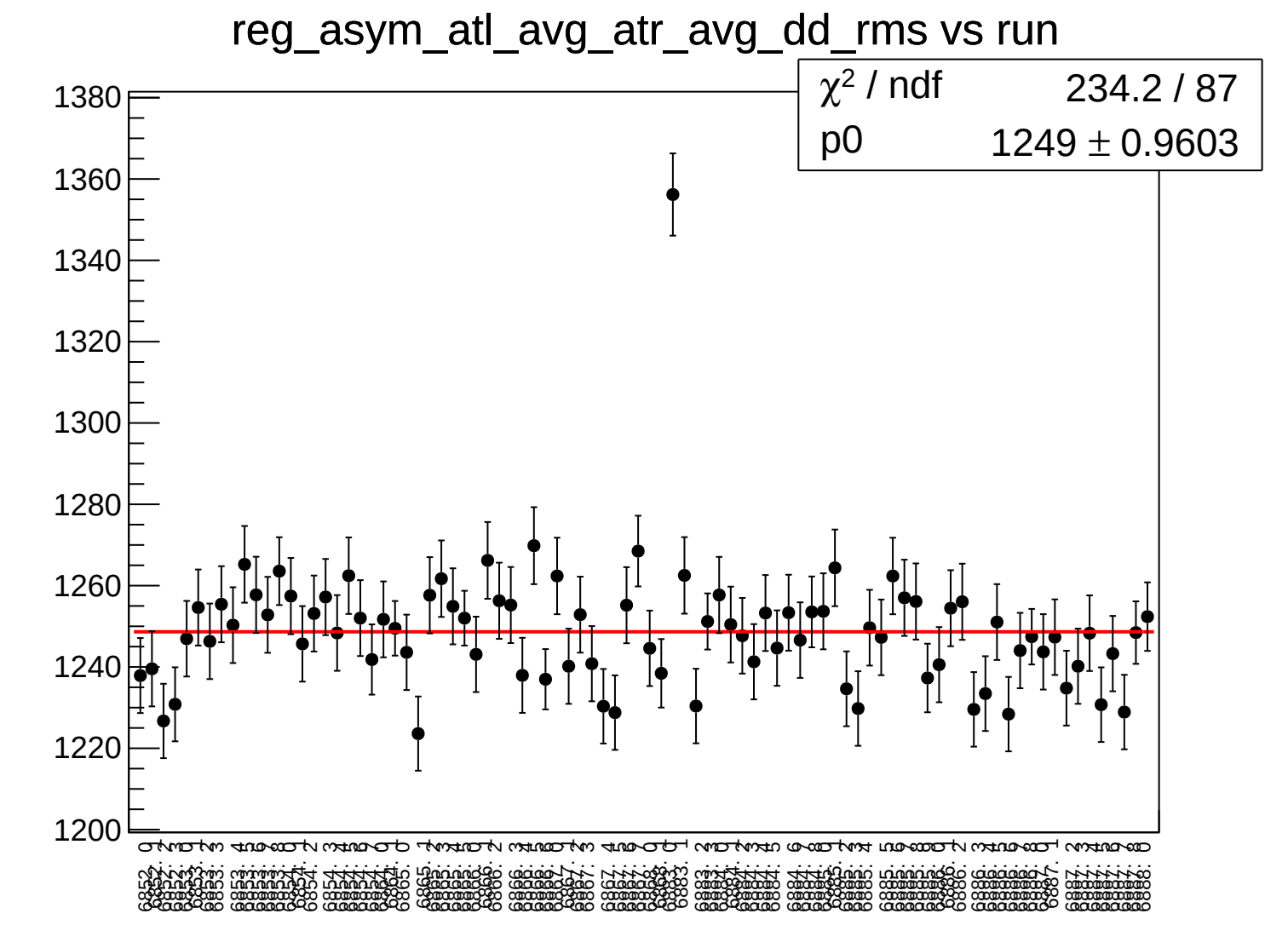

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.285e+04 / 87
p0 327.9 ± 0.2539
500
450
400
350
300
250

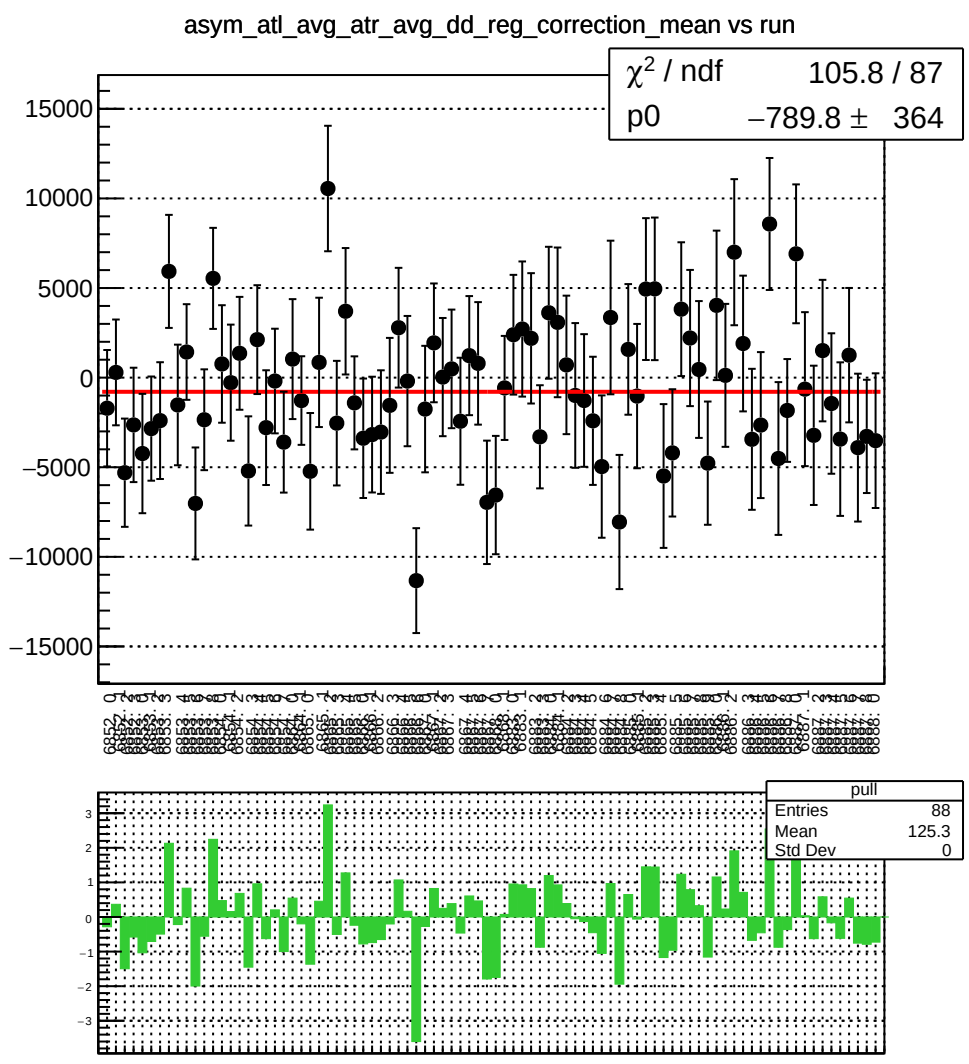

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.2 / 87
p0 8.795e−14 ± 9.99e−14
pull
Entries 88
Mean −261.4
Std Dev 0

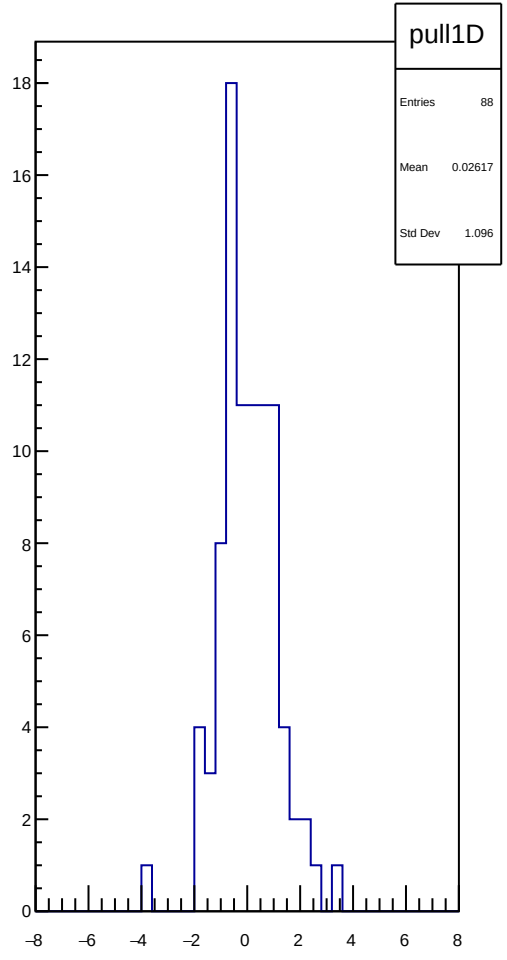

pull1D
Entries 88
Mean −0.009605
Std Dev 0.8607

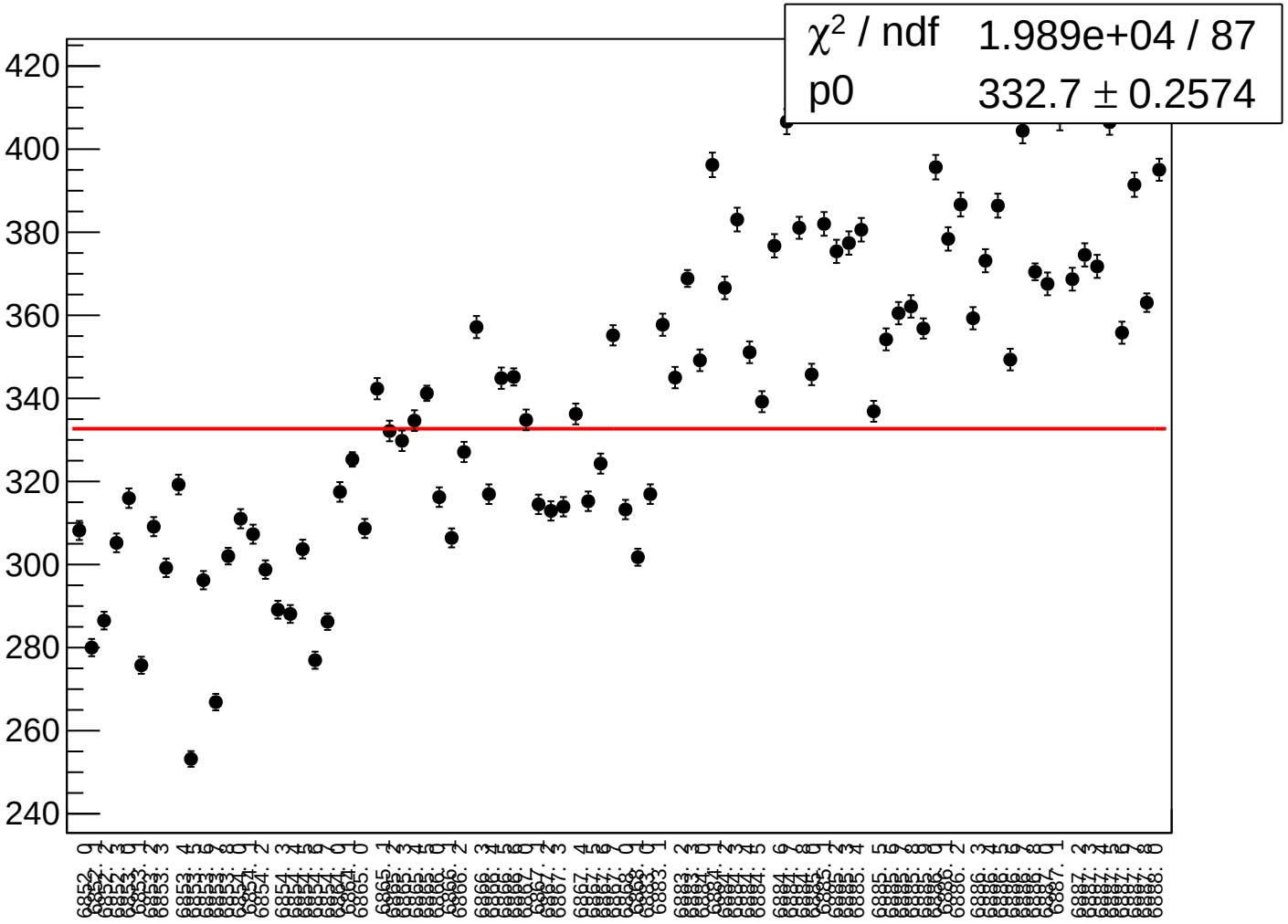

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.728e+05 / 87
p0 7.469e−11 ± 7.064e−14
0.5
0.4
0.3
0.2
0.1

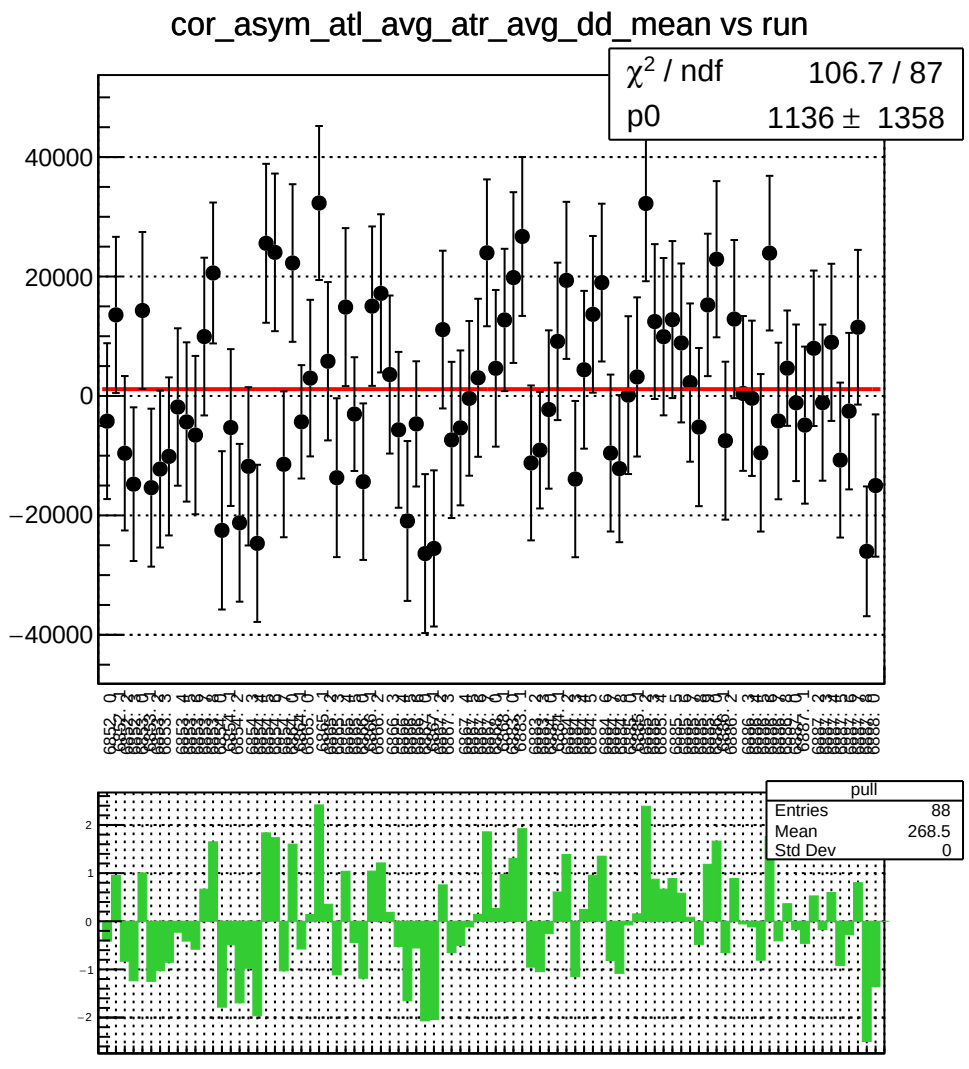

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 106.7 / 87
p0 1136 ± 1358
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 268.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01252
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

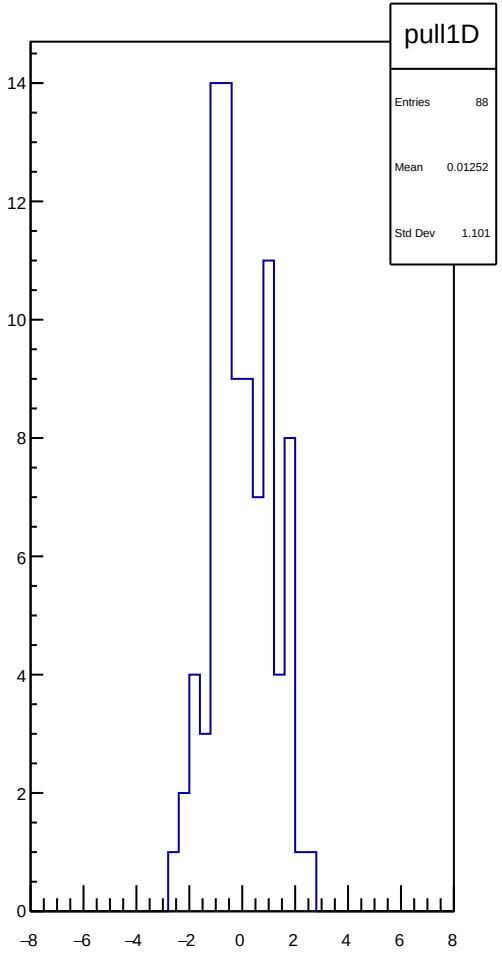

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 234.2 / 87
p0 1249 ± 0.9603
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200


asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 105.8 / 87
p0 −789.8 ± 364
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 125.3
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean 0.02617
Std Dev 1.096
18
16
14
12
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 1.989e+04 / 87
p0 332.7 ± 0.2574
420
400
380
360
340
320
300
280
260
240


cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 106.7 / 87
p0 1136 ± 1358
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 268.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.01252
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
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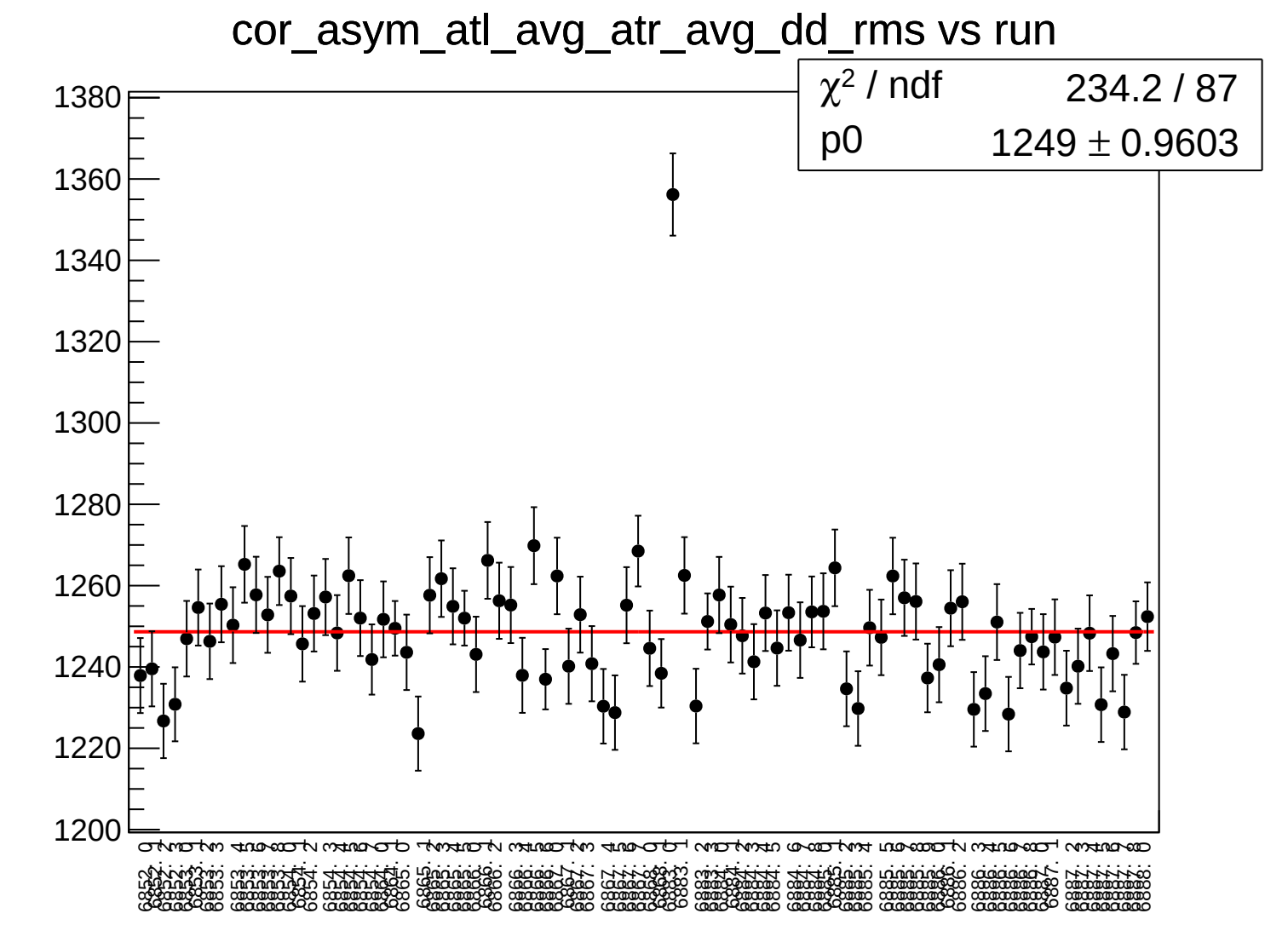
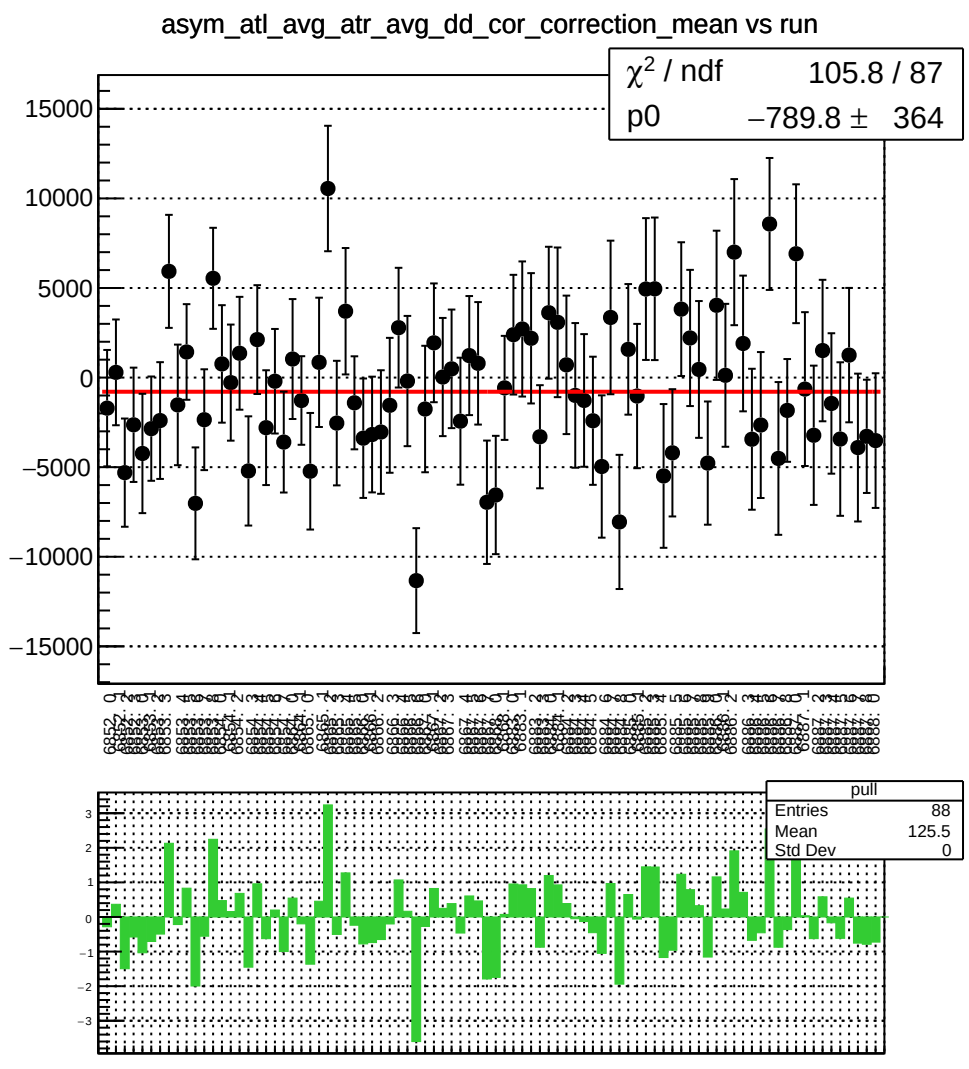
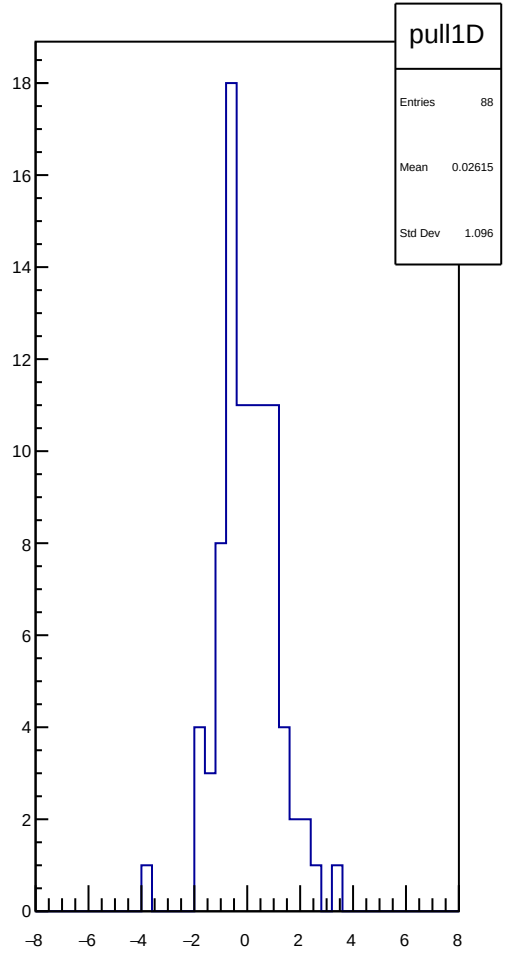
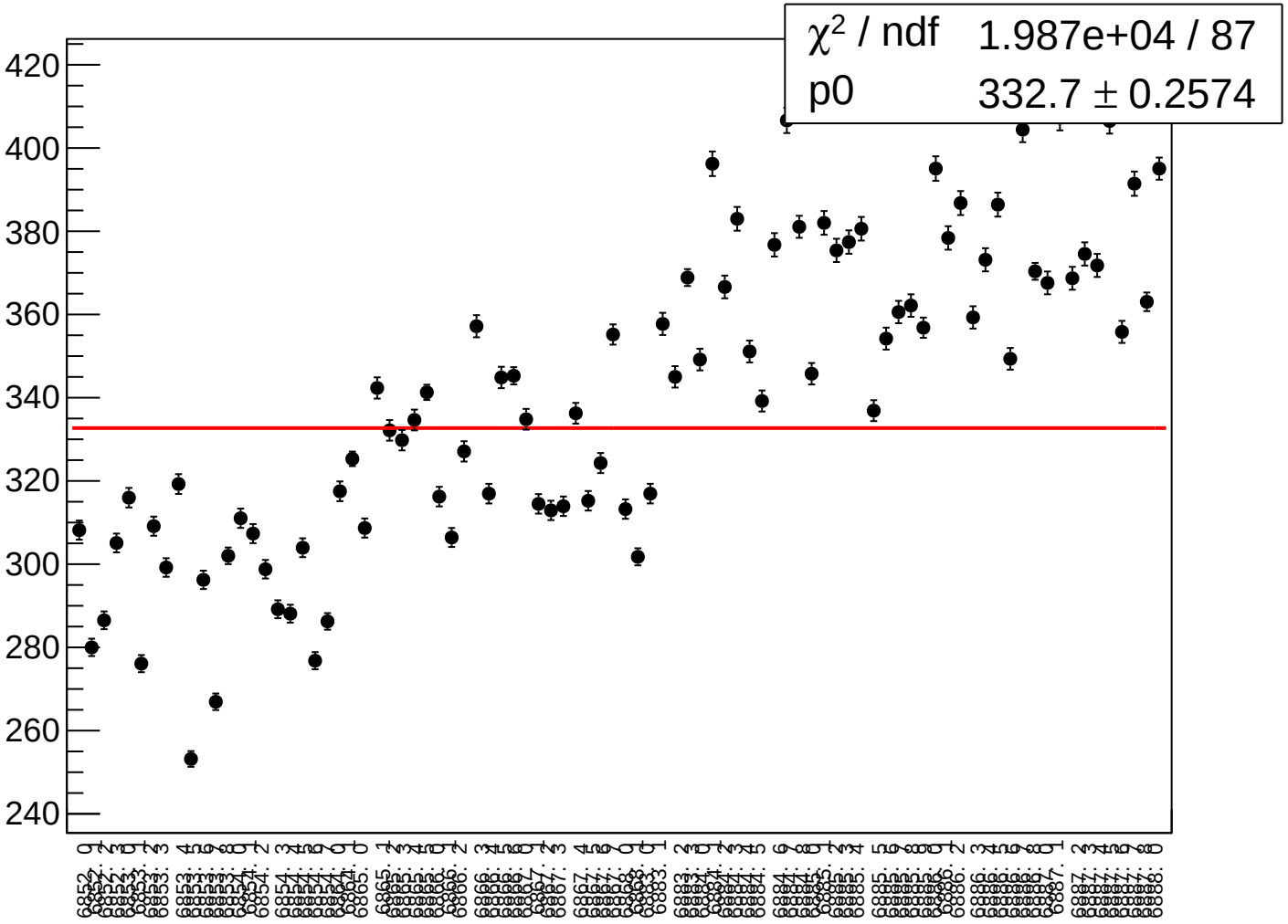
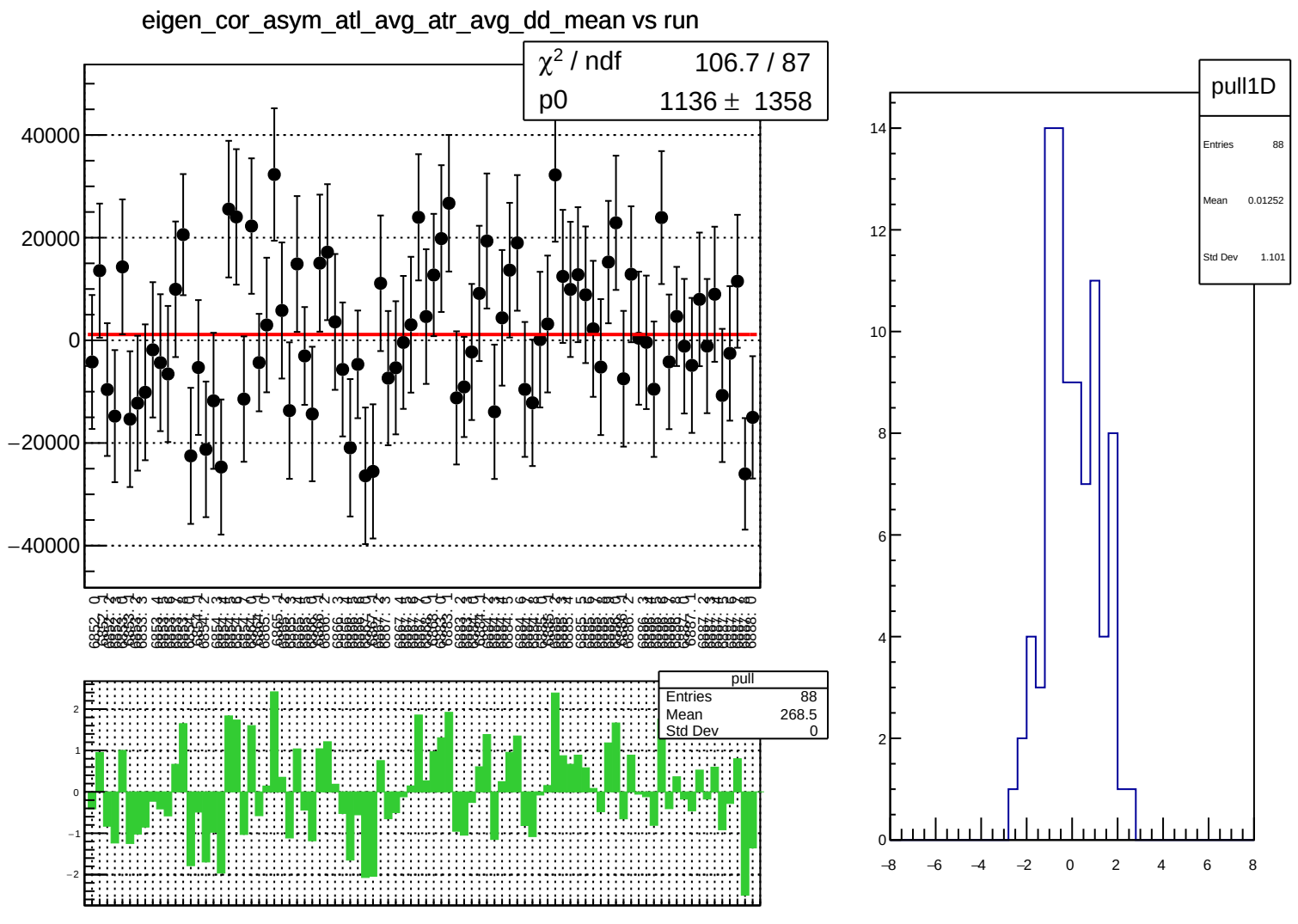
0
2
4
6
8

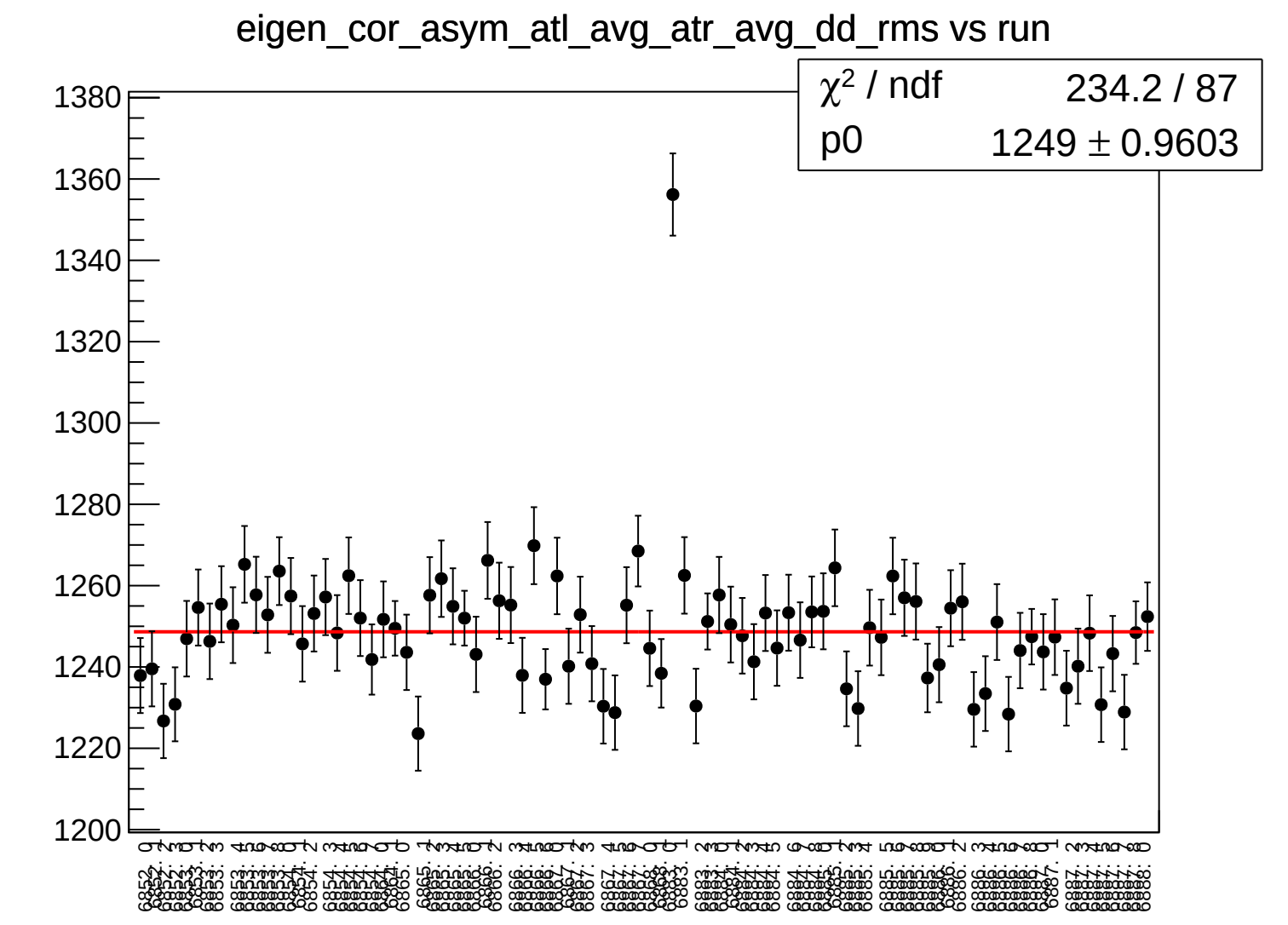

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 234.2 / 87
p0 1249 ± 0.9603
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

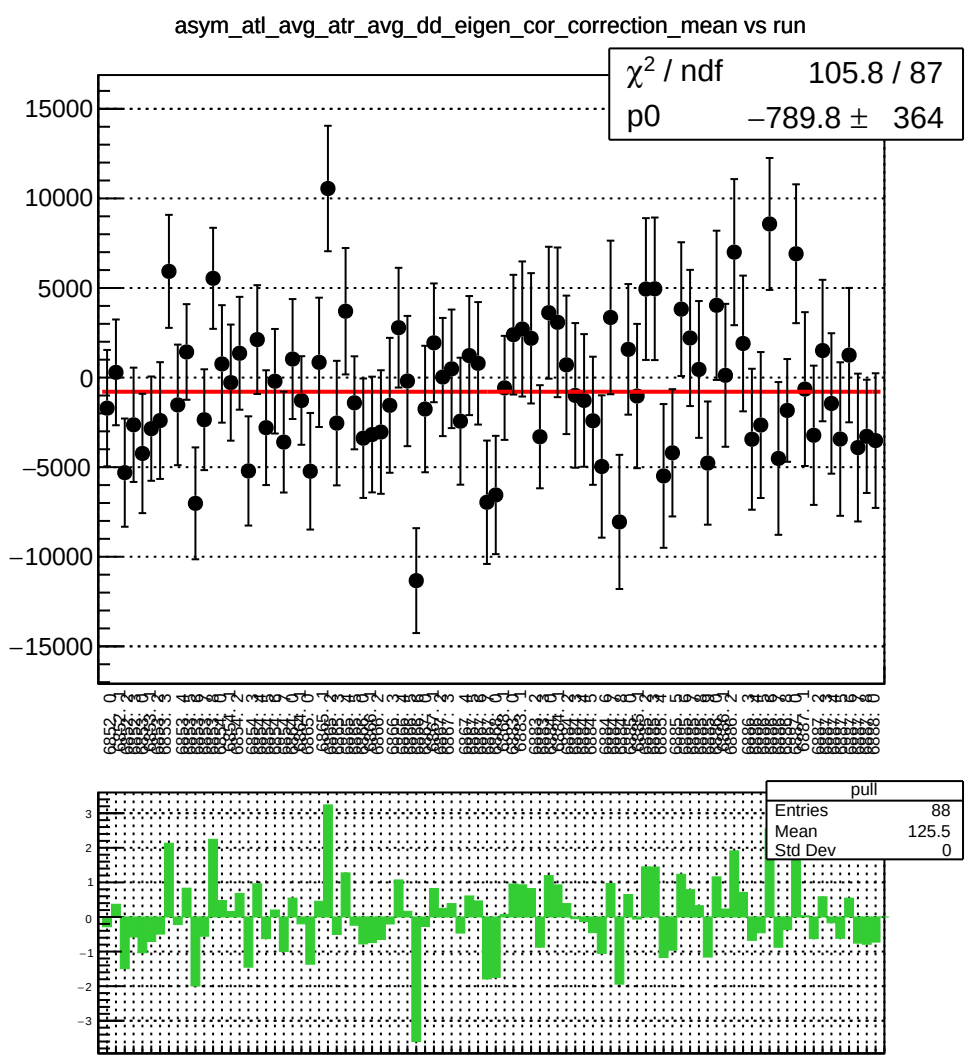

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 105.8 / 87
p0 −789.8 ± 364
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 125.5
Std Dev 0
3
2
1
0
−1
−2
−3

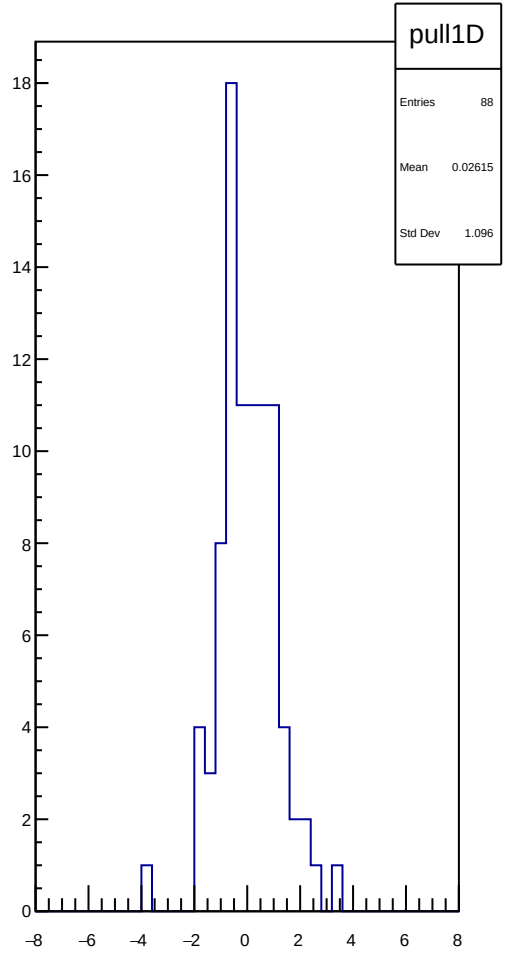

pull1D
Entries 88
Mean 0.02615
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

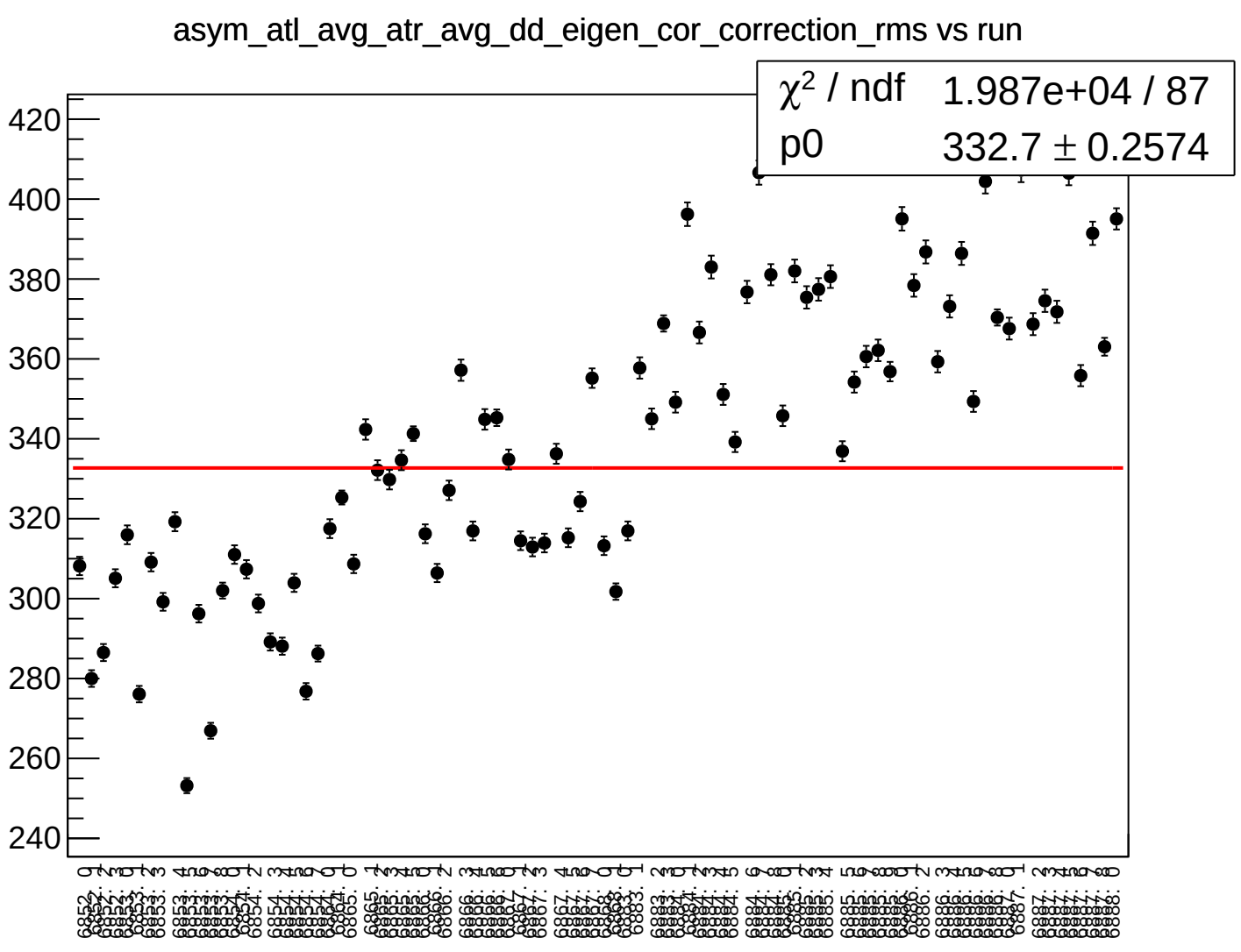

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.987e+04 / 87
p0 332.7 ± 0.2574
420
400
380
360
340
320
300
280
260
240

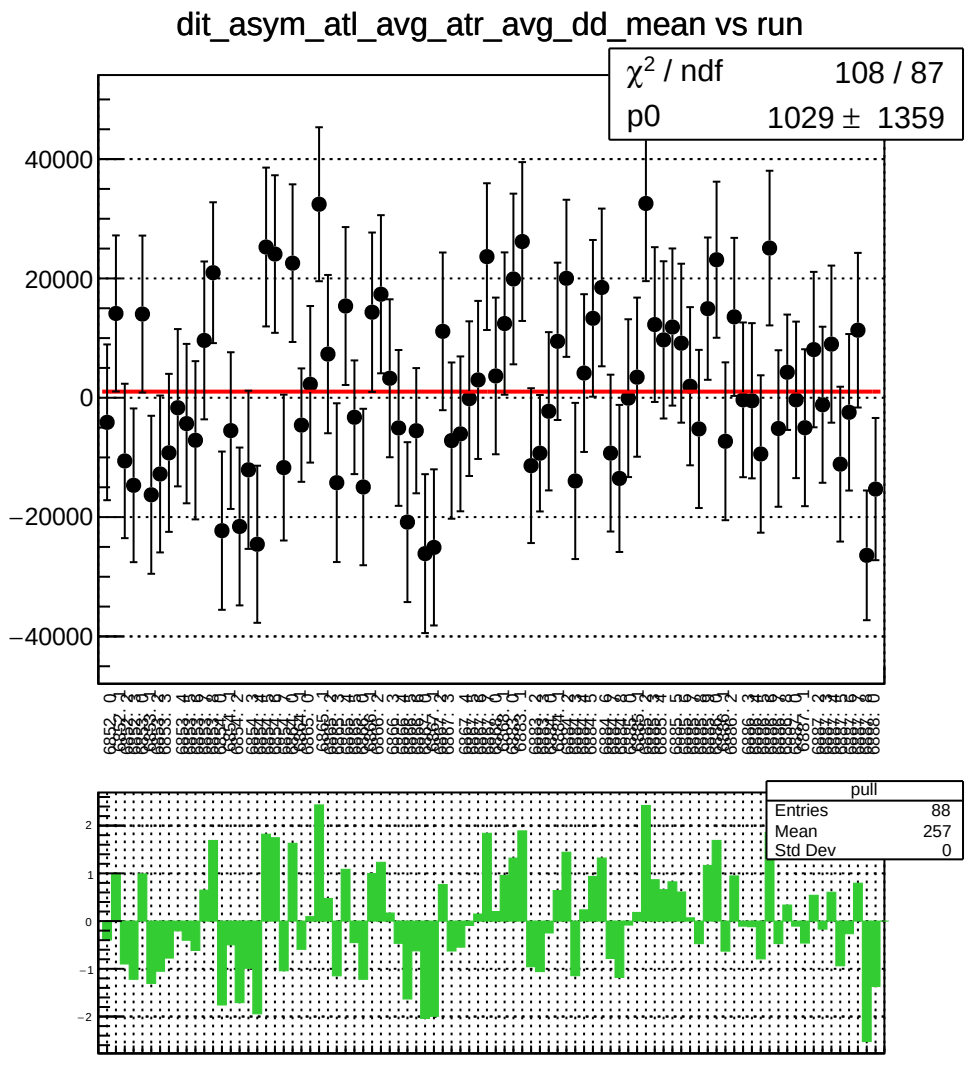

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 106.7 / 87
p0 1136 ± 1358
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 268.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01252
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

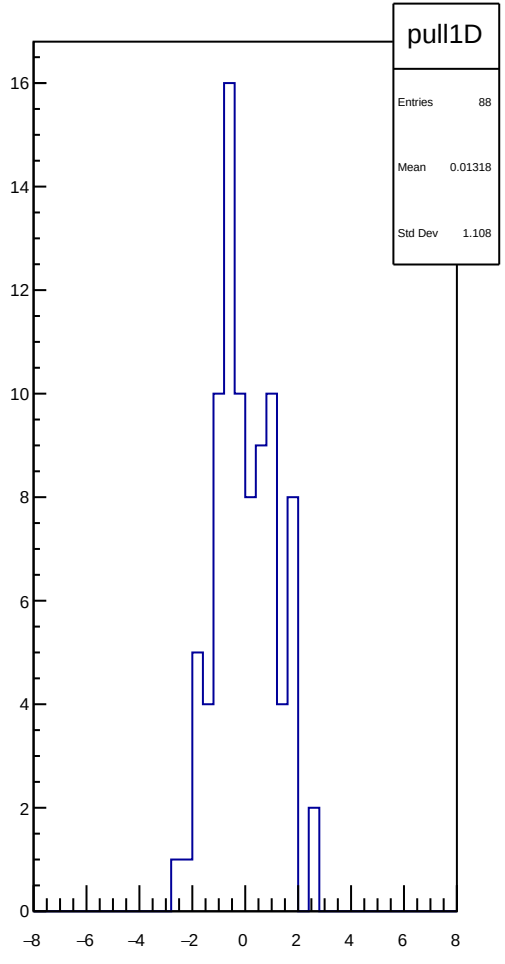

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 234.2 / 87
p0 1249 ± 0.9603
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

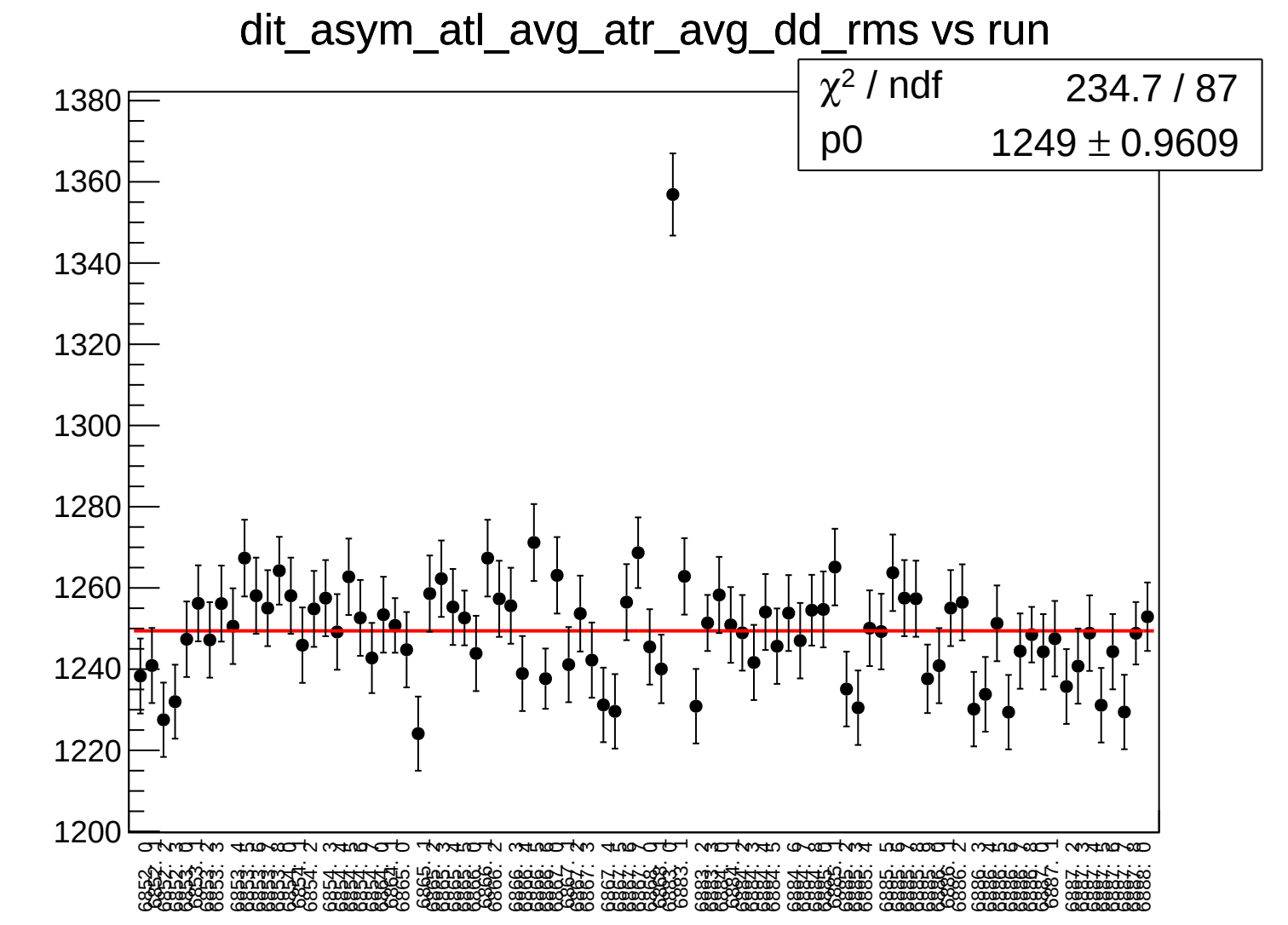

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.8 / 87
p0 −789.8 ± 364
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 125.5
Std Dev 0
3
2
1
0
−1
−2
−3

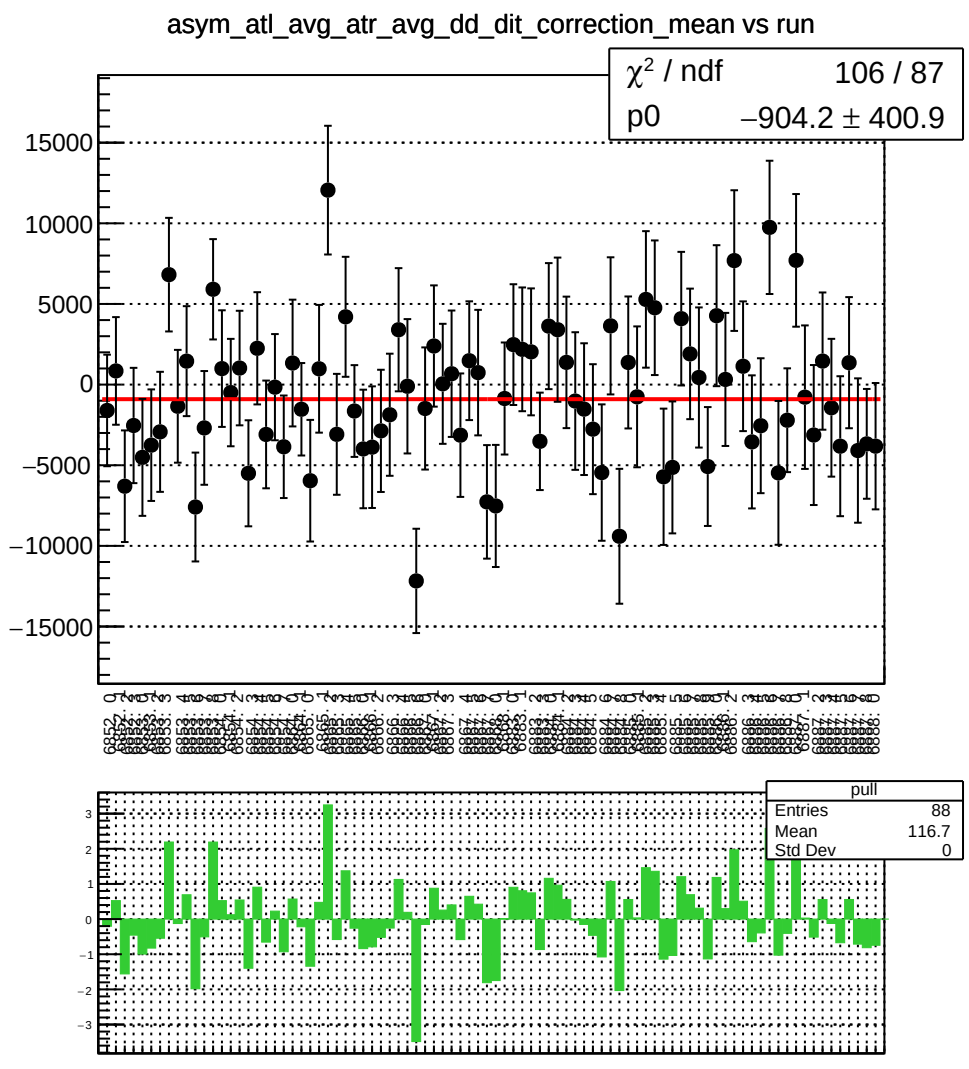

pull1D
Entries 88
Mean 0.02615
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

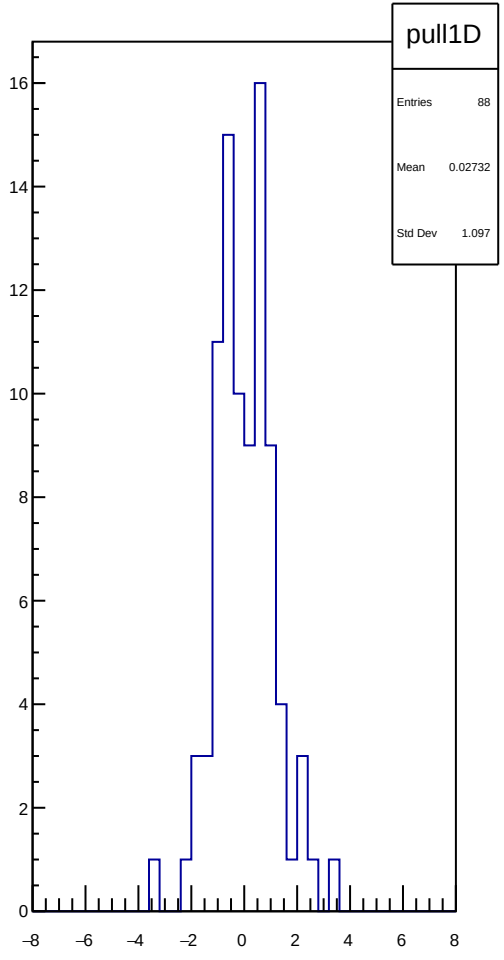

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.987e+04 / 87
p0 332.7 ± 0.2574
420
400
380
360
340
320
300
280
260
240

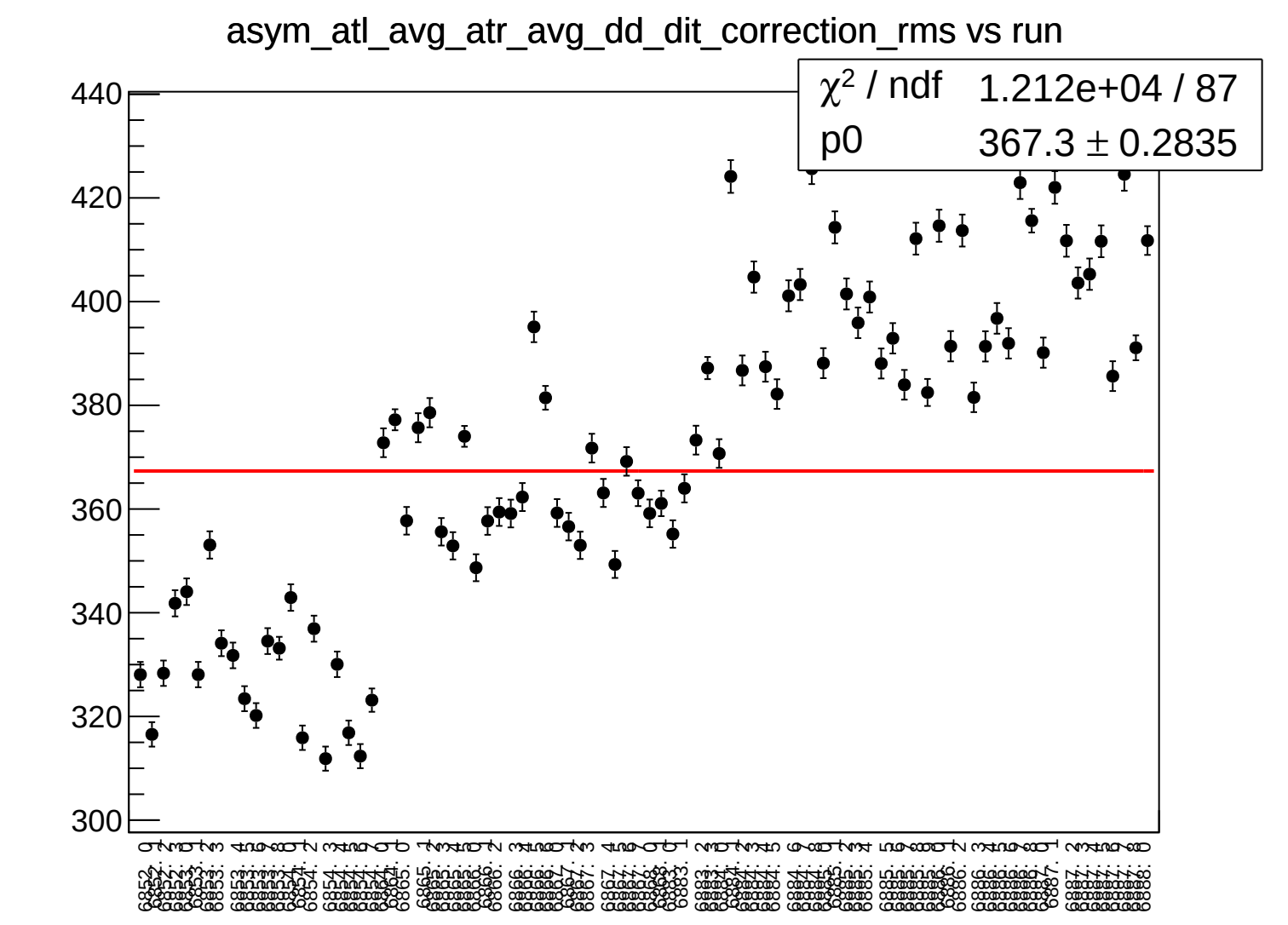

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 108 / 87
p0 1029 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 257
Std Dev 0
2
1
0
−1
−2

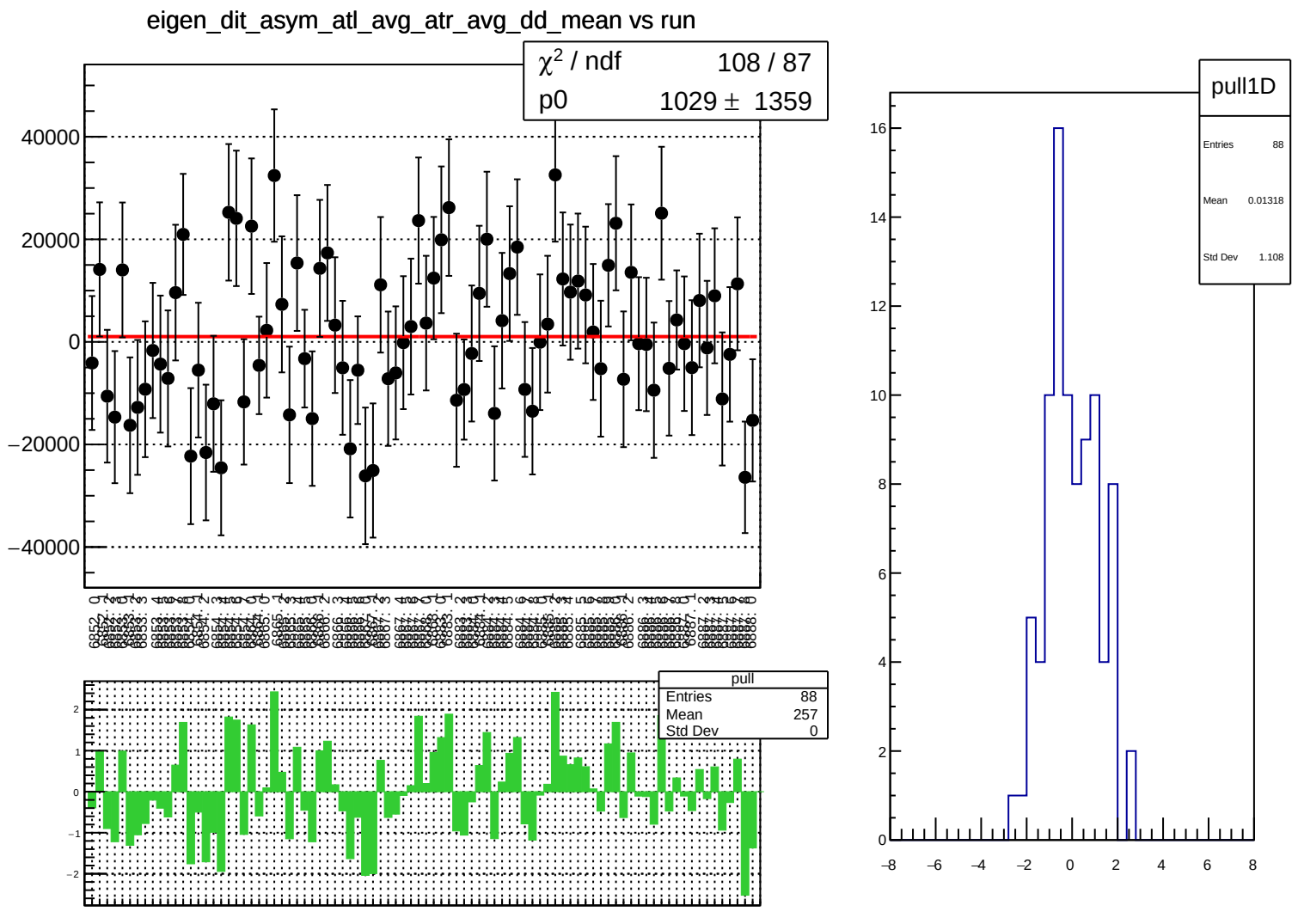

pull1D
Entries 88
Mean 0.01318
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

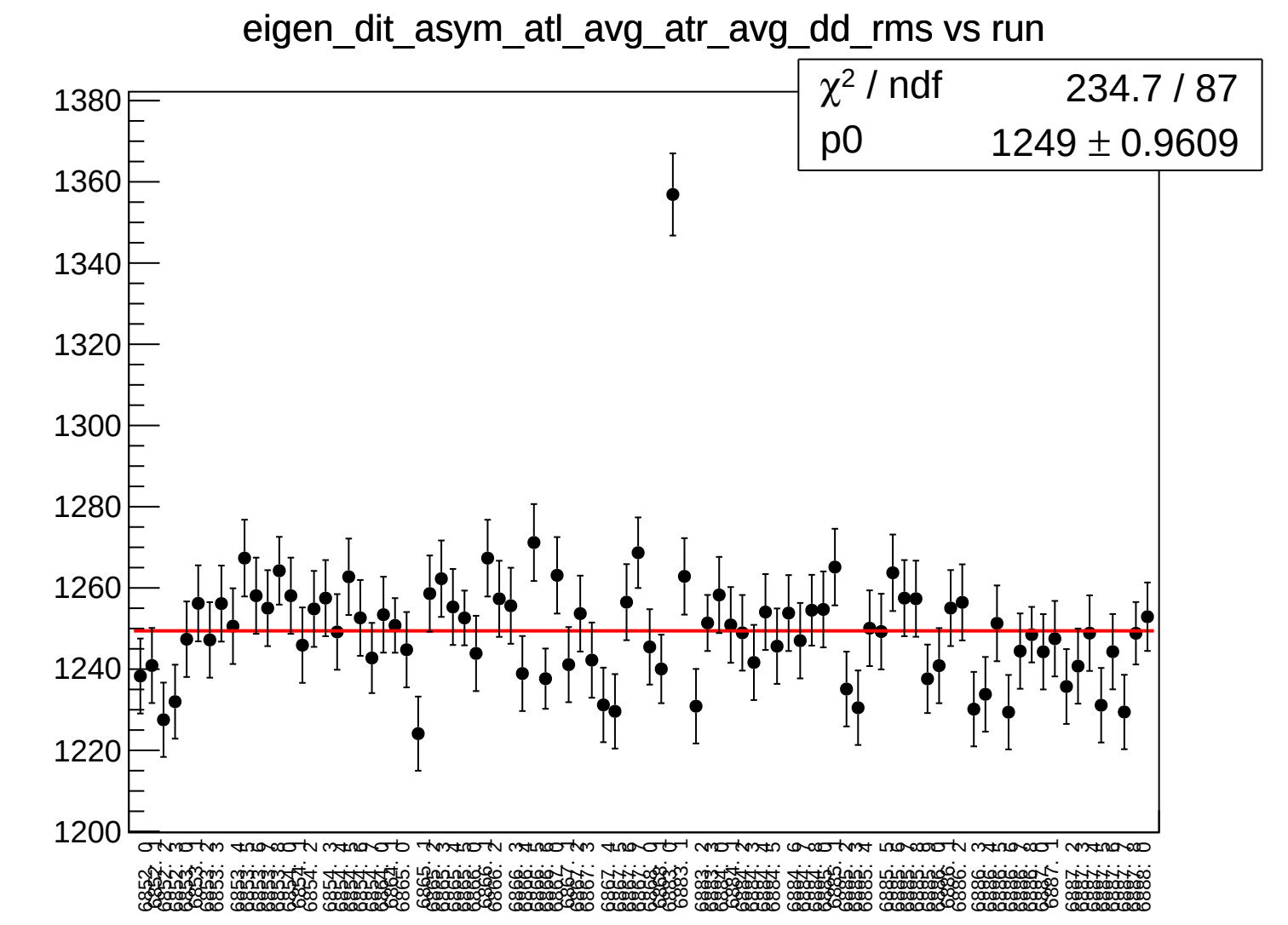

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 234.7 / 87
p0 1249 ± 0.9609
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

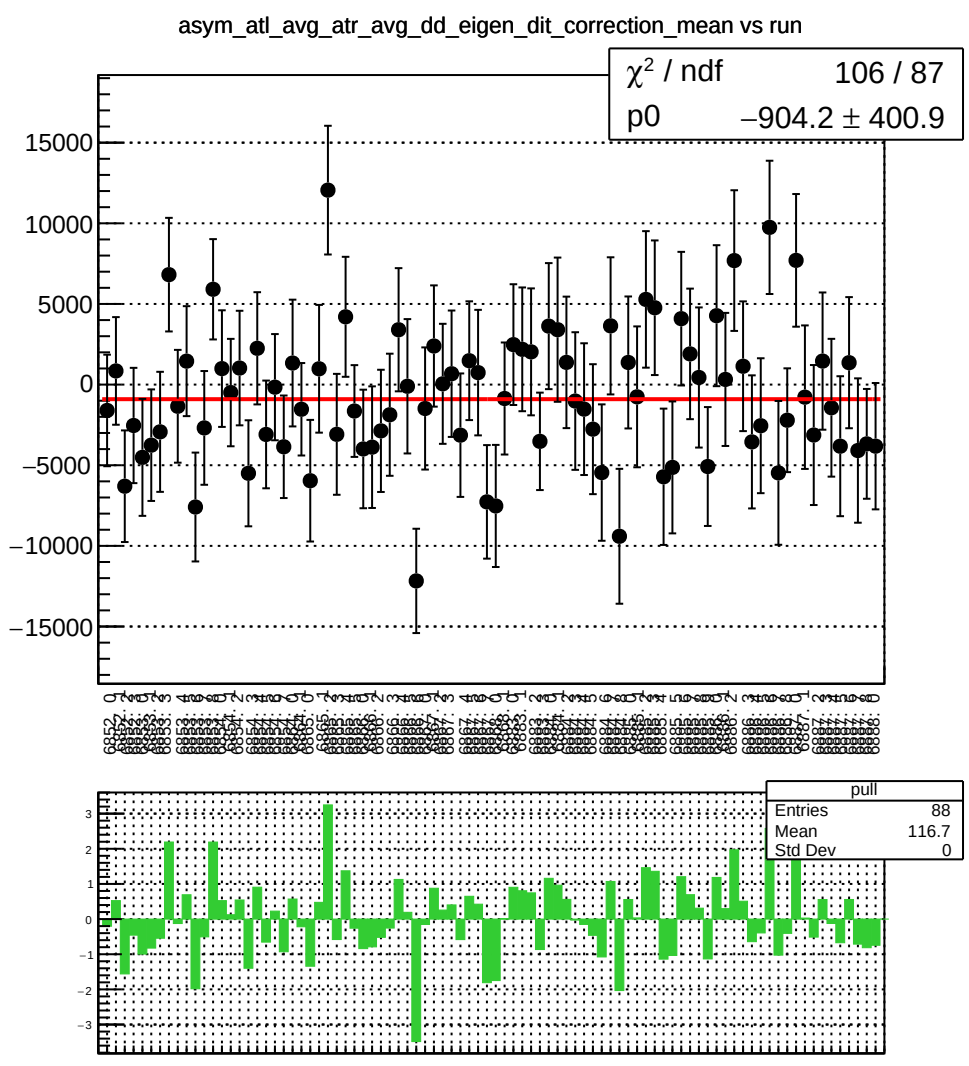

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 106 / 87
p0 −904.2 ± 400.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 116.7
Std Dev 0
3
2
1
0
−1
−2
−3

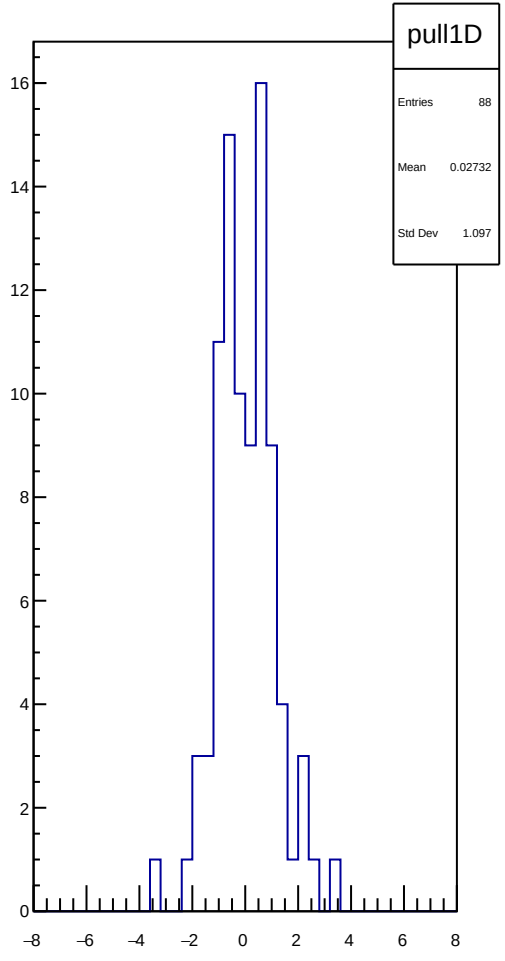

pull1D
Entries 88
Mean 0.02732
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

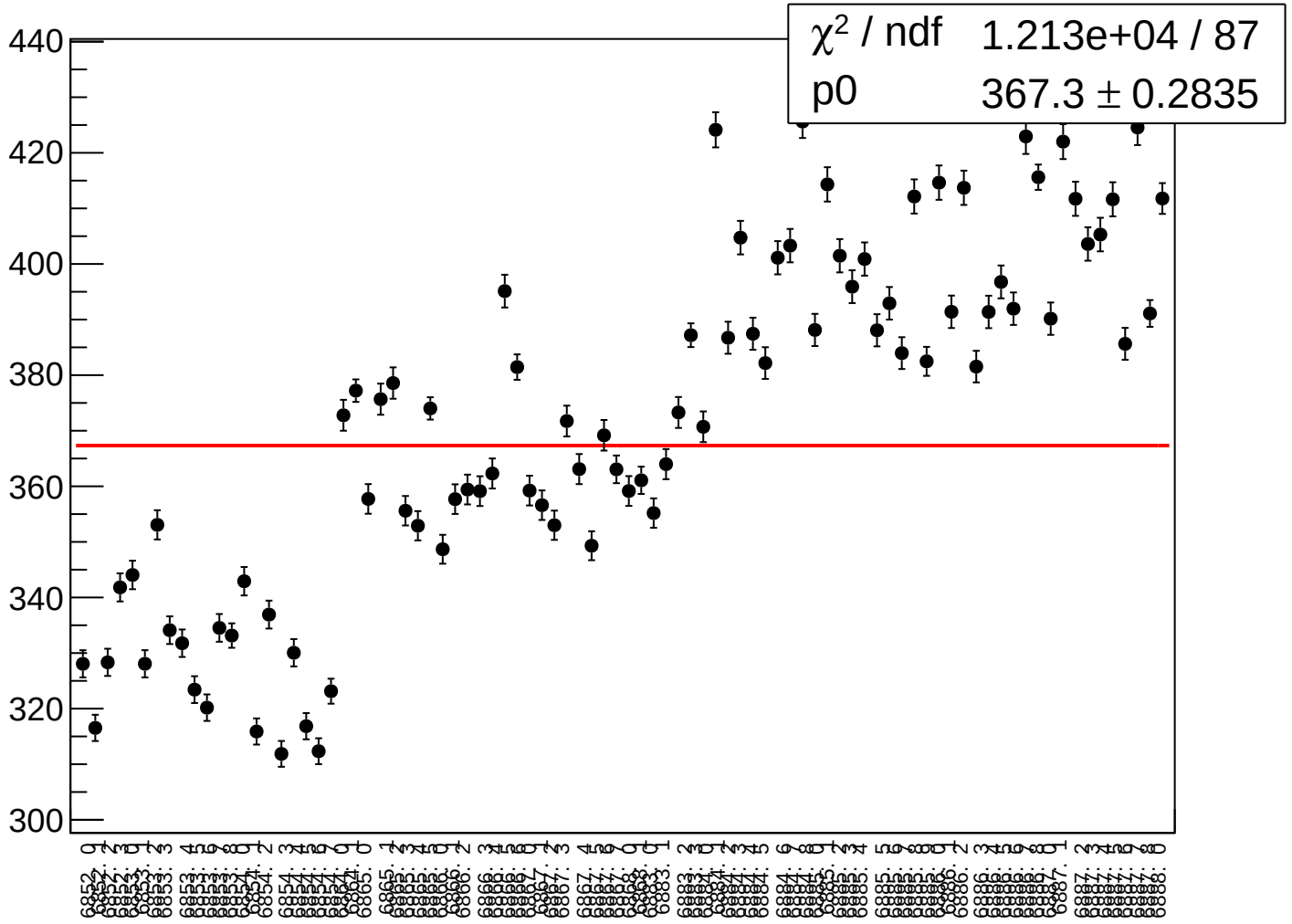

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.212e+04 / 87
p0 367.3 ± 0.2835
440
420
400
380
360
340
320
300

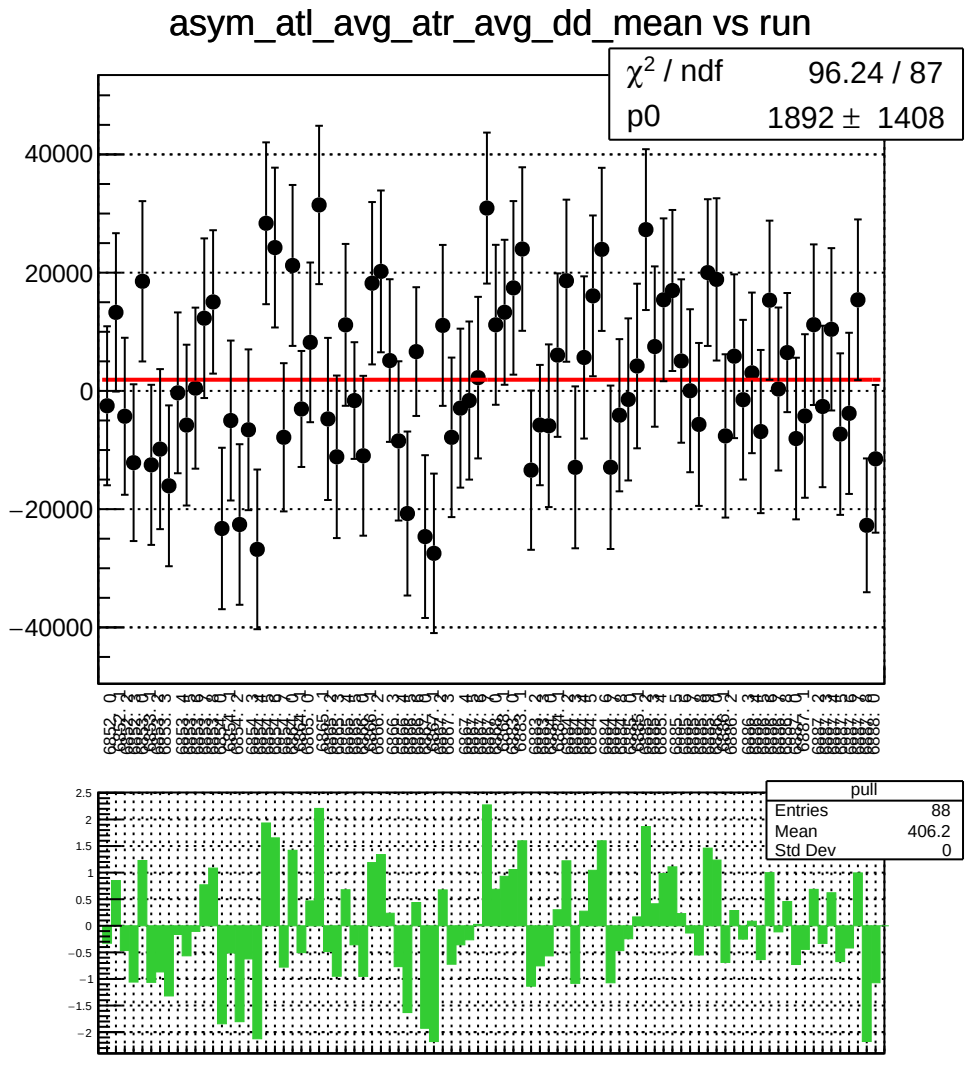

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 108 / 87
p0 1029 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 257
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01318
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

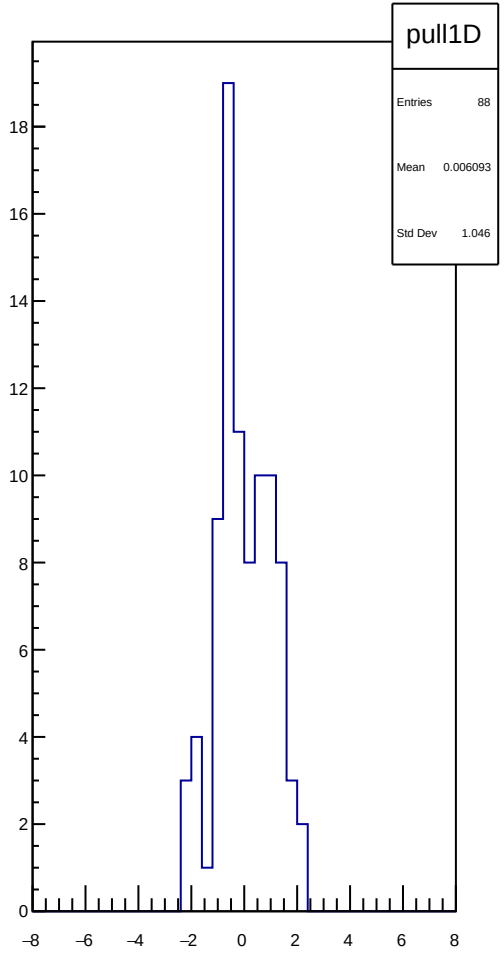

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 234.7 / 87
p0 1249 ± 0.9609
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

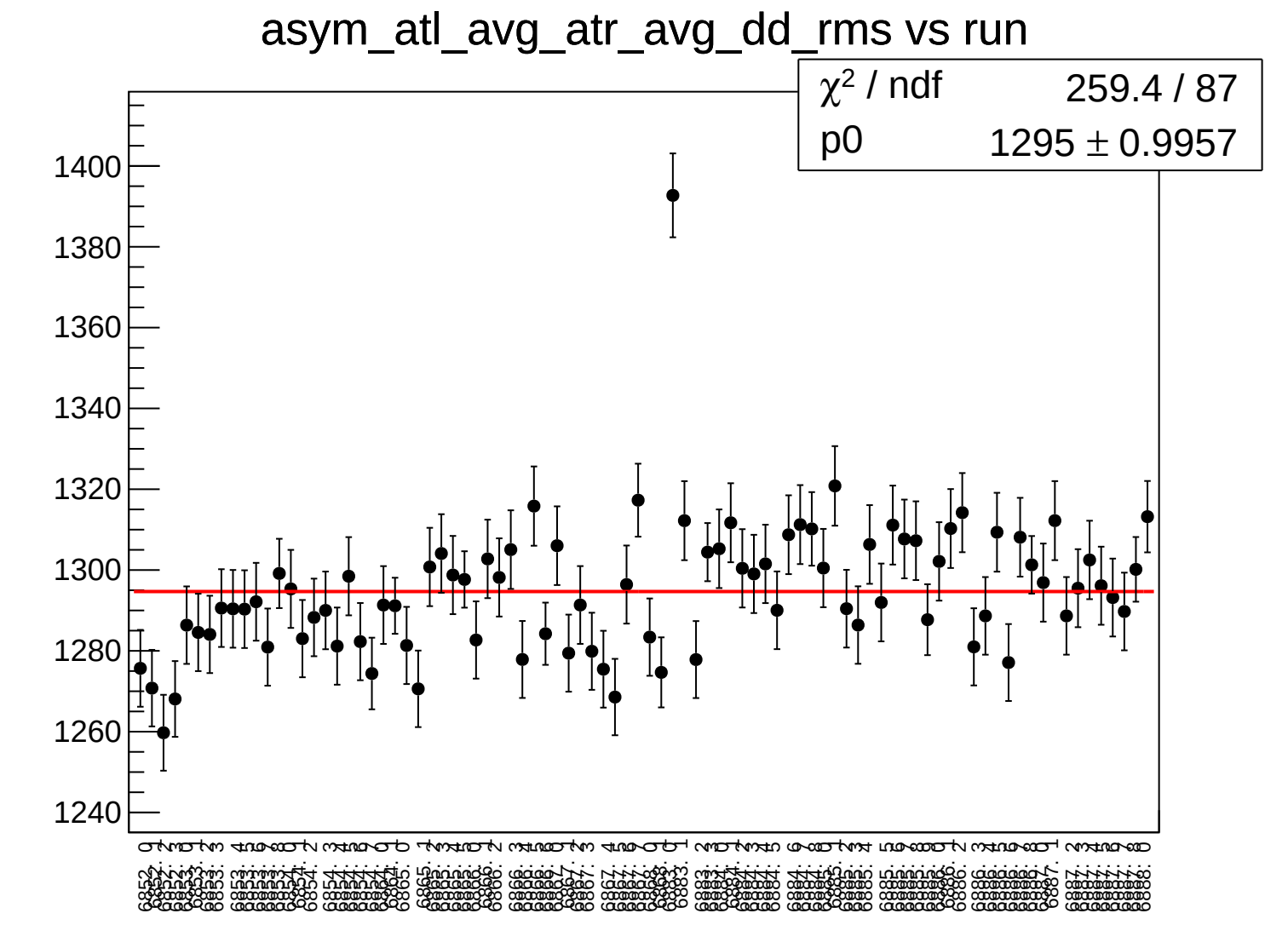

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 106 / 87
p0 −904.2 ± 400.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 116.7
Std Dev 0
3
2
1
0
−1
−2
−3

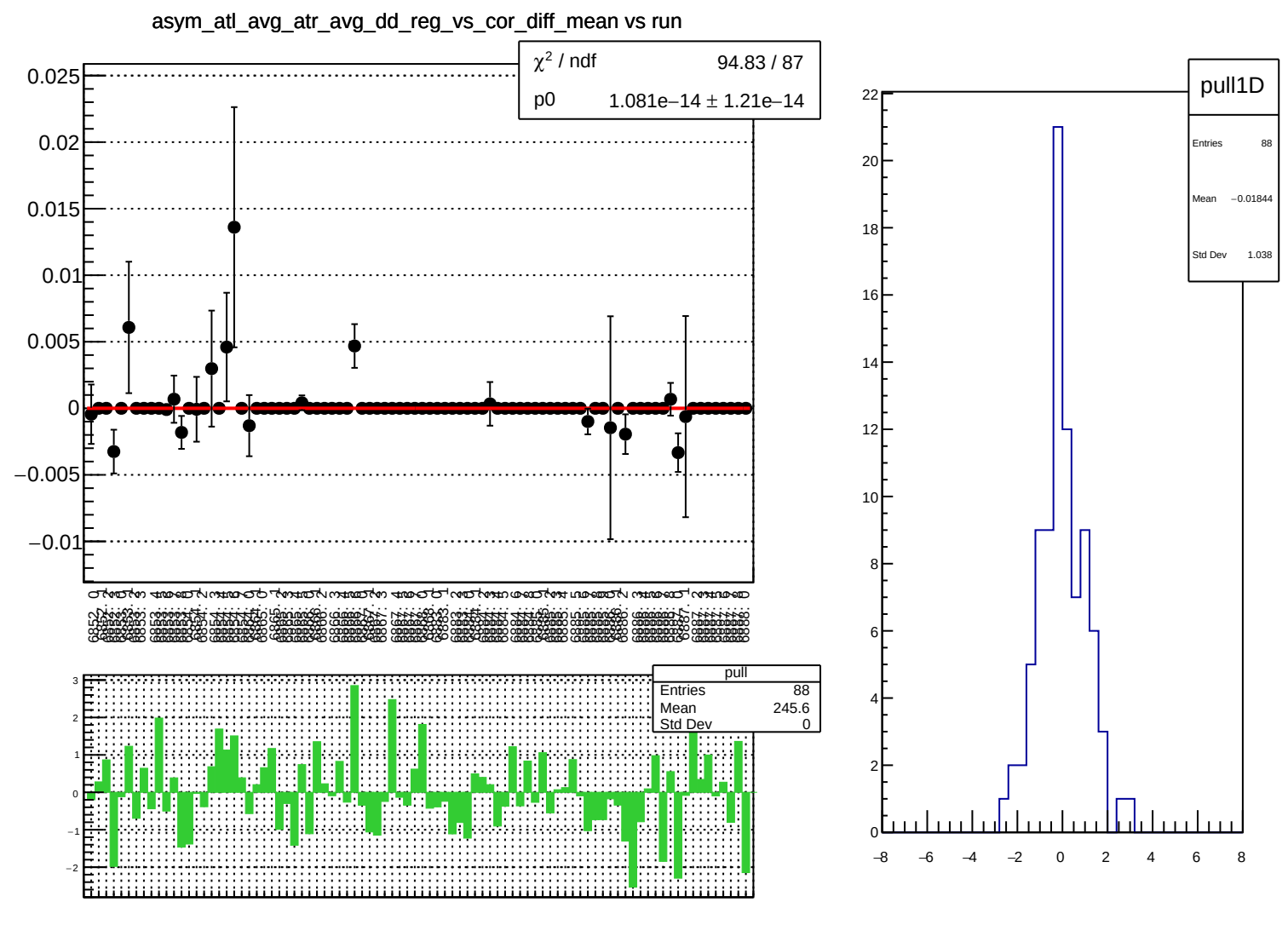

pull1D
Entries 88
Mean 0.02732
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

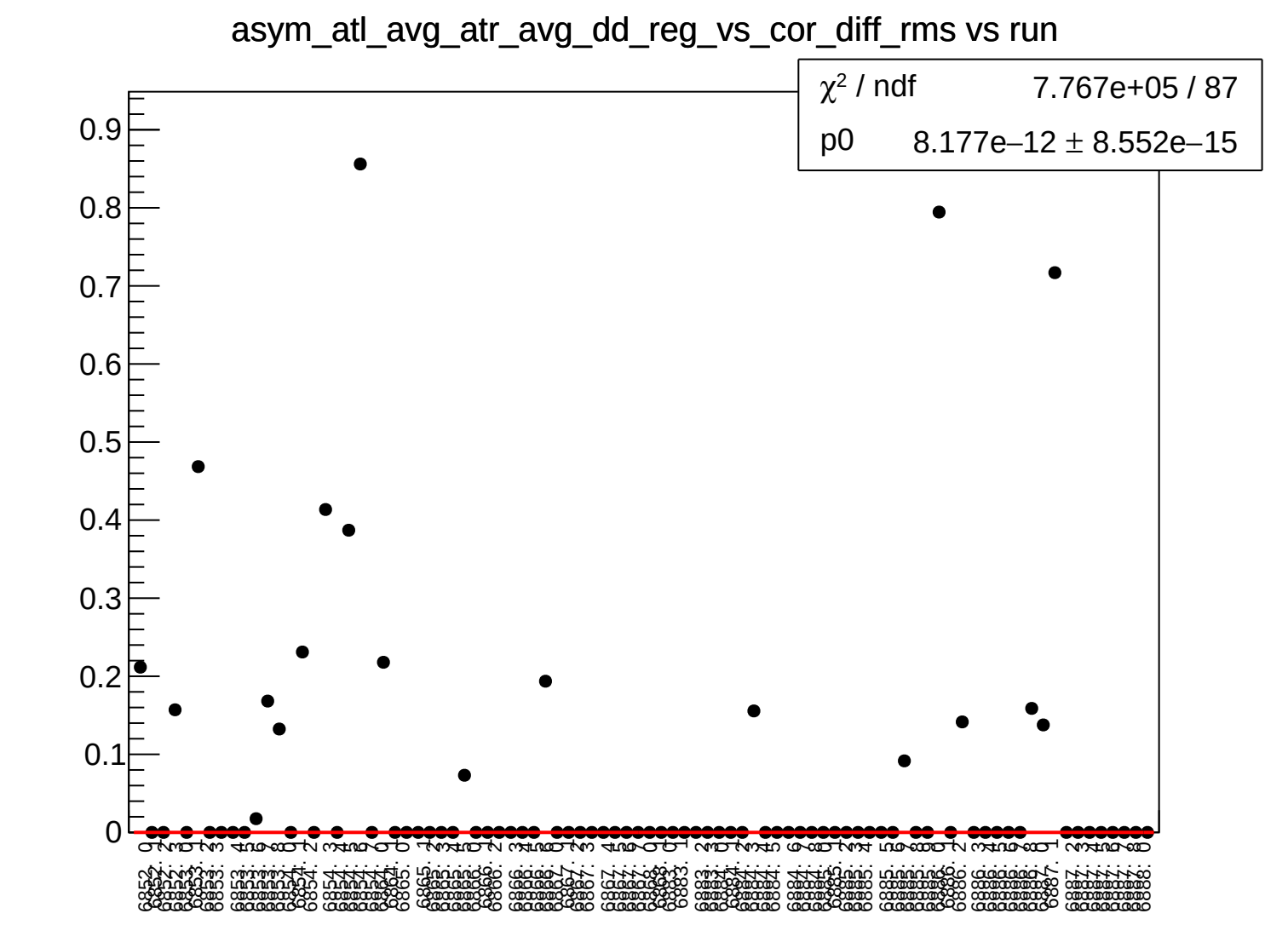

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.213e+04 / 87
p0 367.3 ± 0.2835
440
420
400
380
360
340
320
300

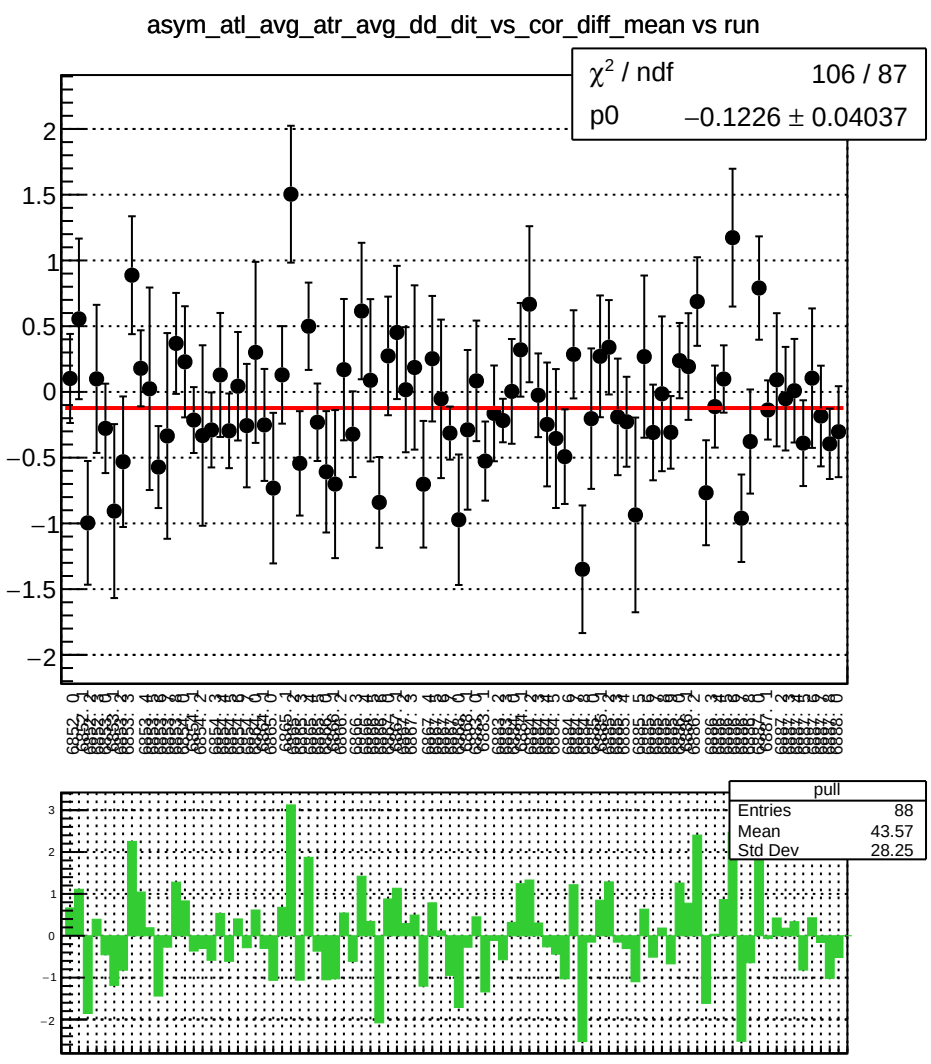

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 96.24 / 87
p0 1892 ± 1408
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 406.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

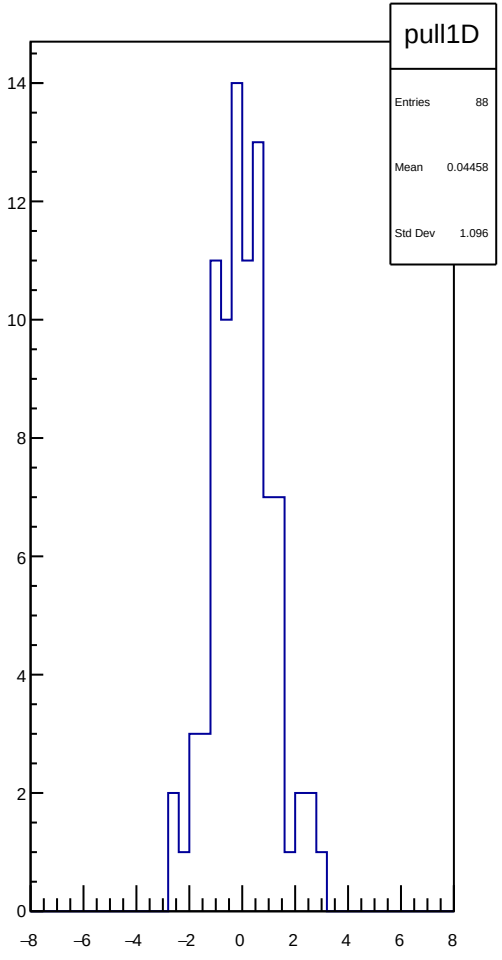

pull1D
Entries 88
Mean 0.006093
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

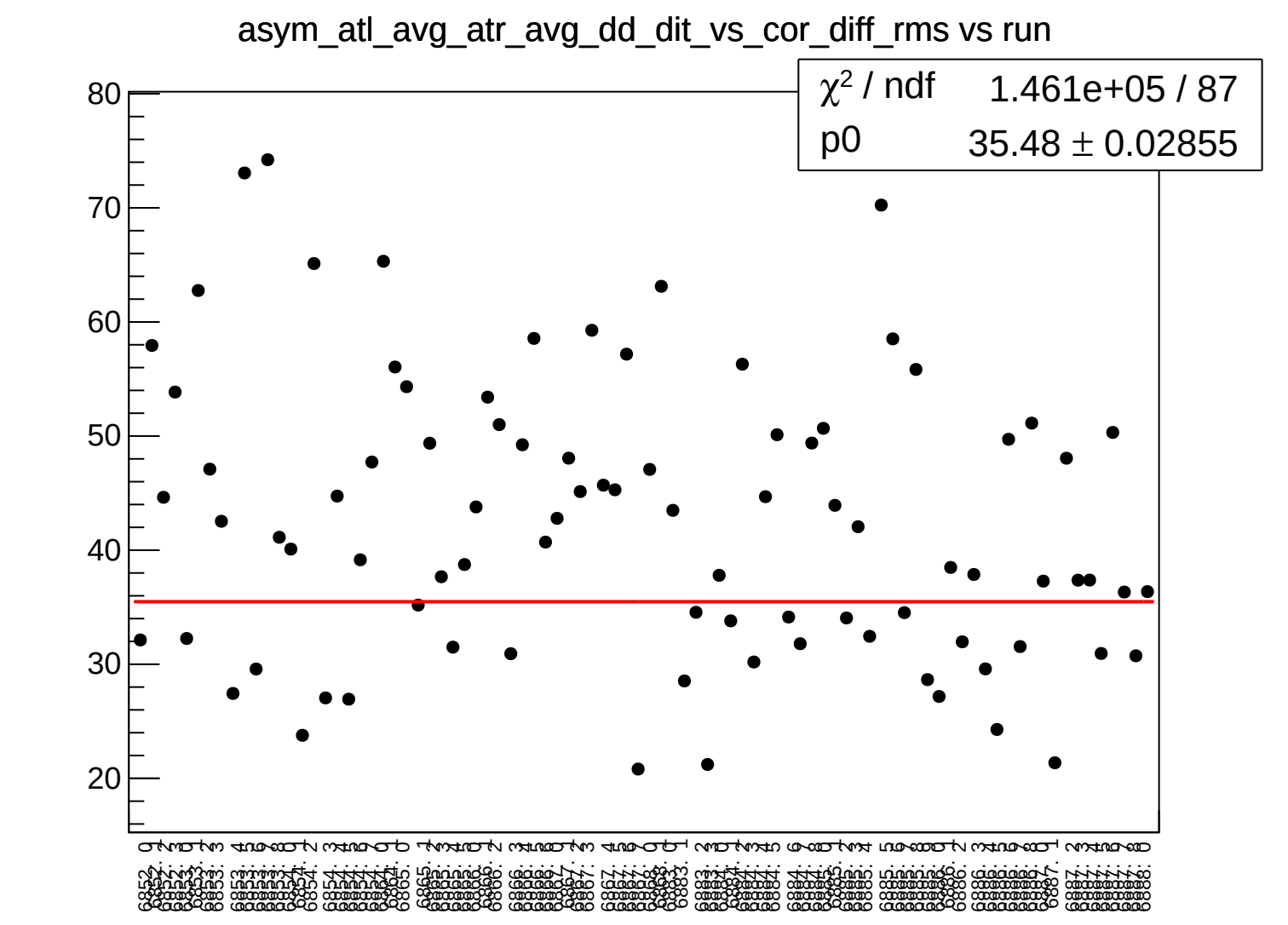

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 259.4 / 87
p0 1295 ± 0.9957
1400
1380
1360
1340
1320
1300
1280
1260
1240

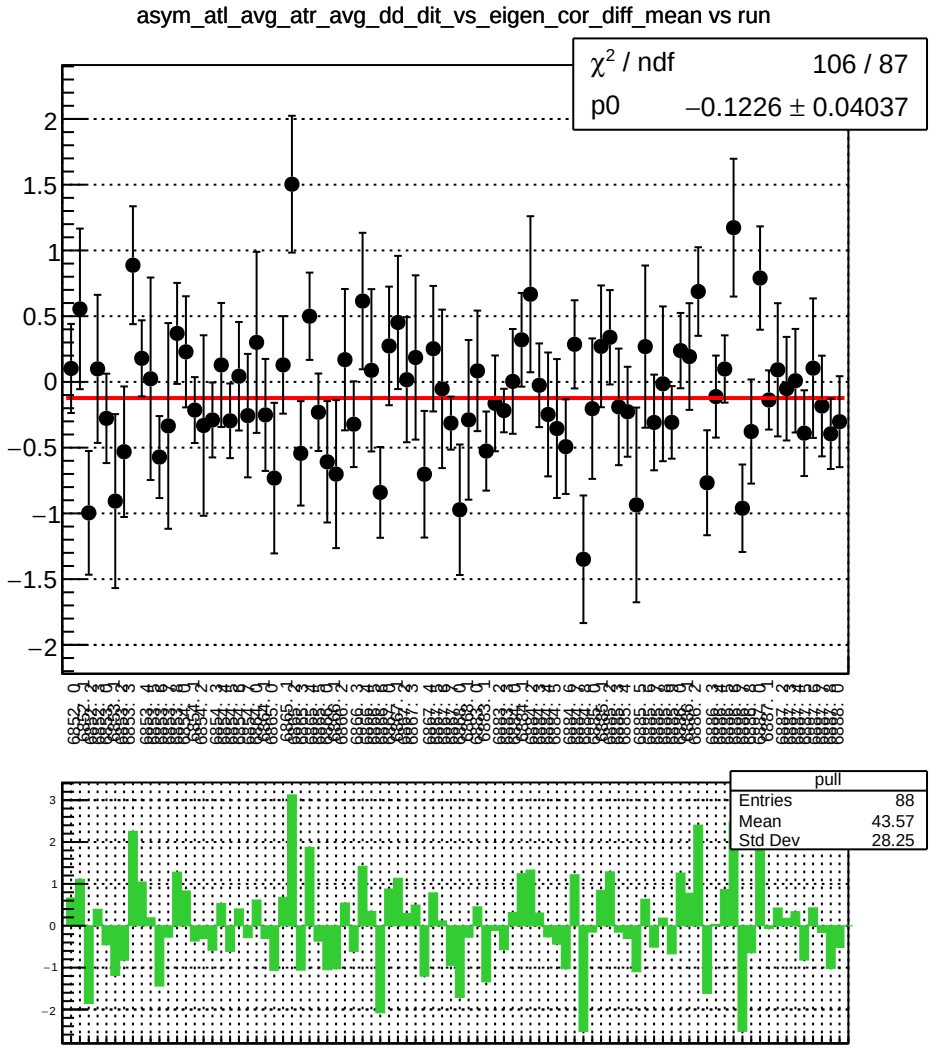

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.83 / 87
p0 1.081e−14 ± 1.21e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 245.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01844
Std Dev 1.038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

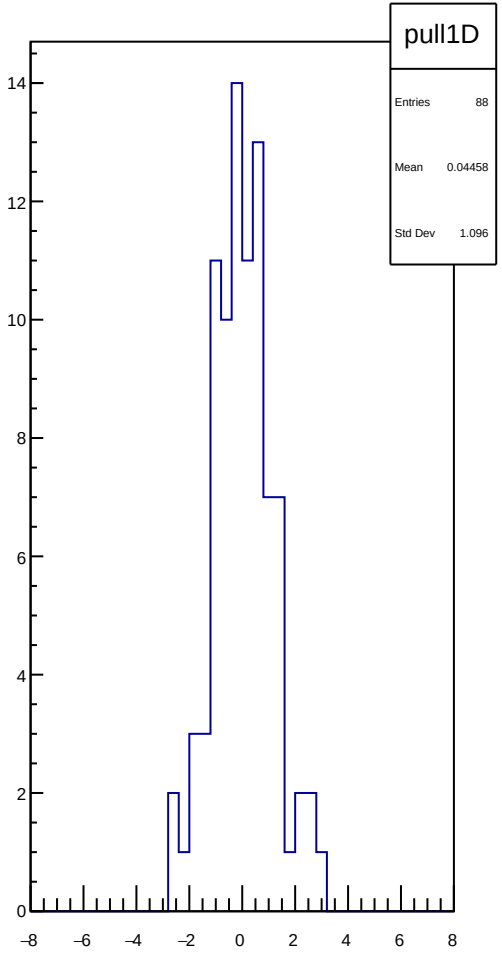

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.767e+05 / 87
p0 8.177e−12 ± 8.552e−15
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

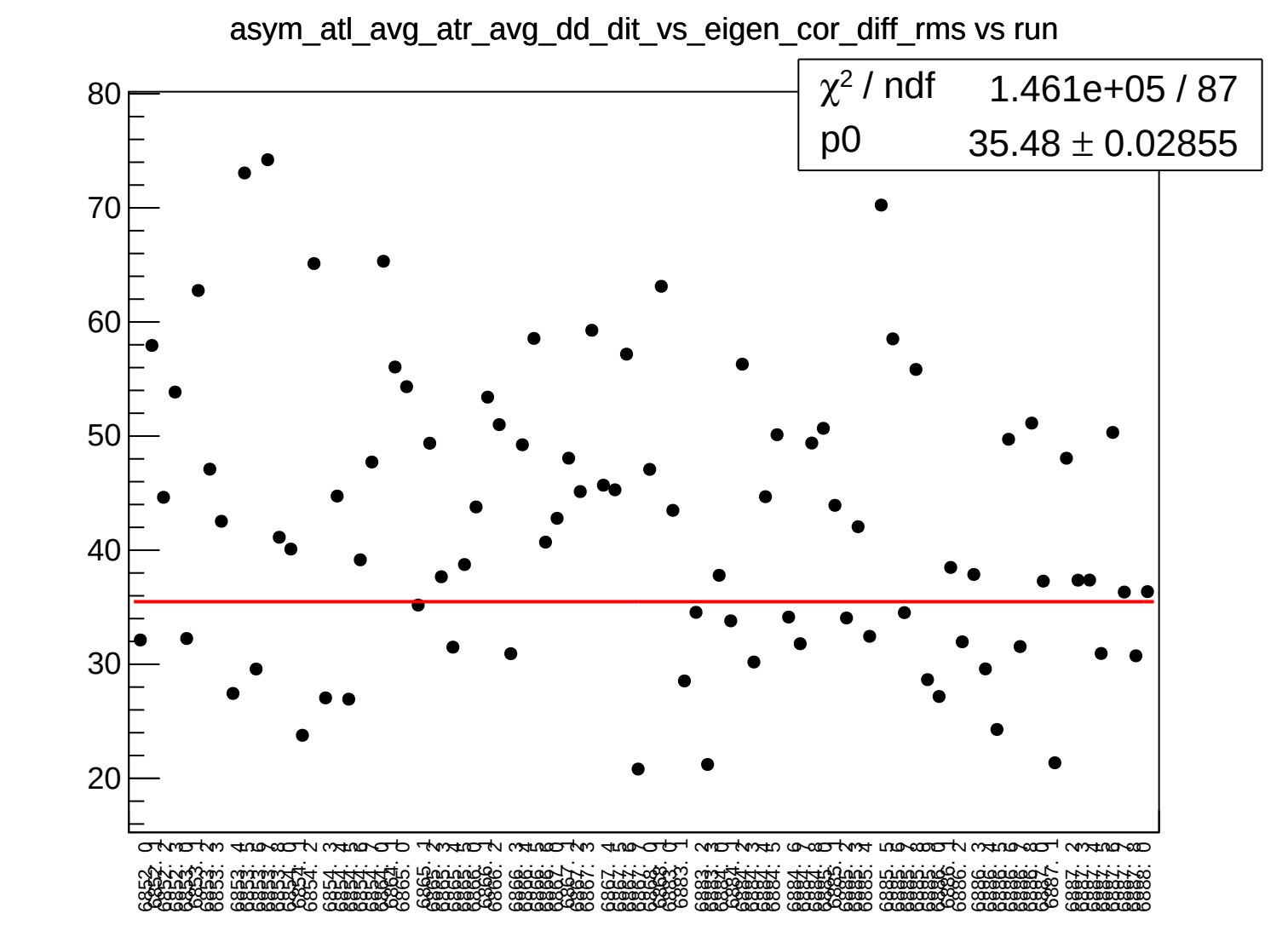

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106 / 87
p0 −0.1226 ± 0.04037
pull
Entries 88
Mean 43.57
Std Dev 28.25

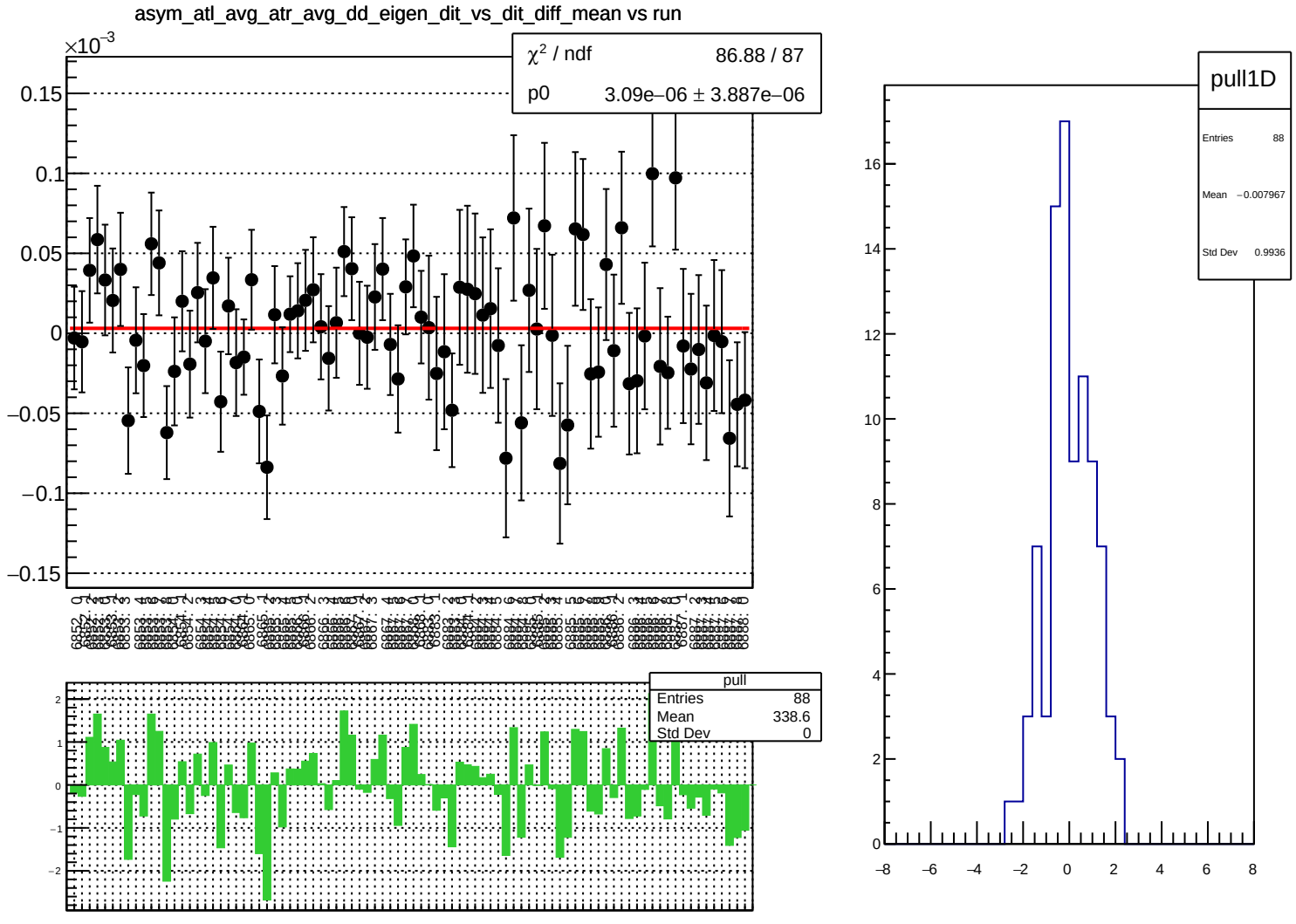

pull1D
Entries 88
Mean 0.04458
Std Dev 1.096

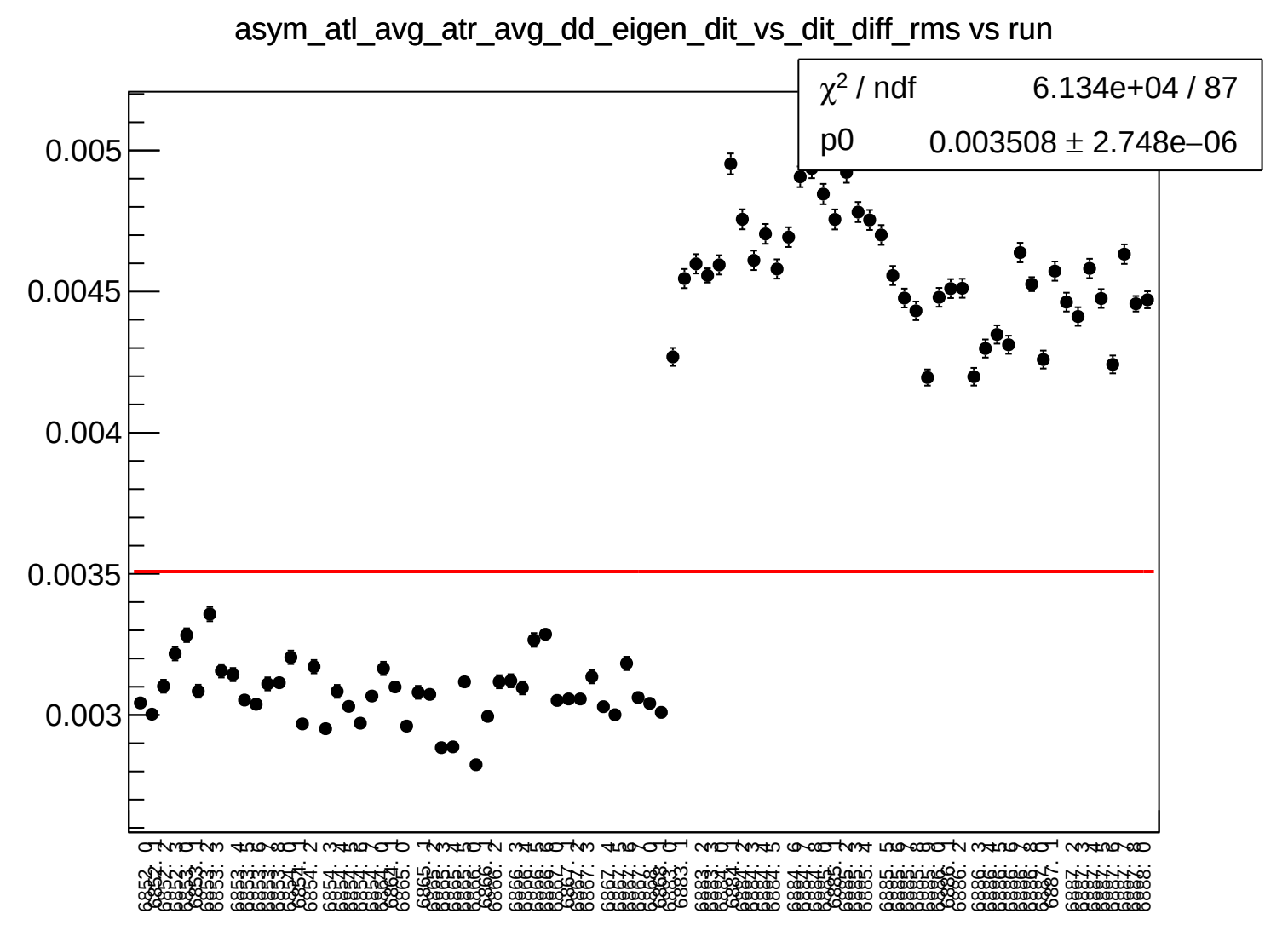

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.461e+05 / 87
p0 35.48 ± 0.02855
80
70
60
50
40
30
20

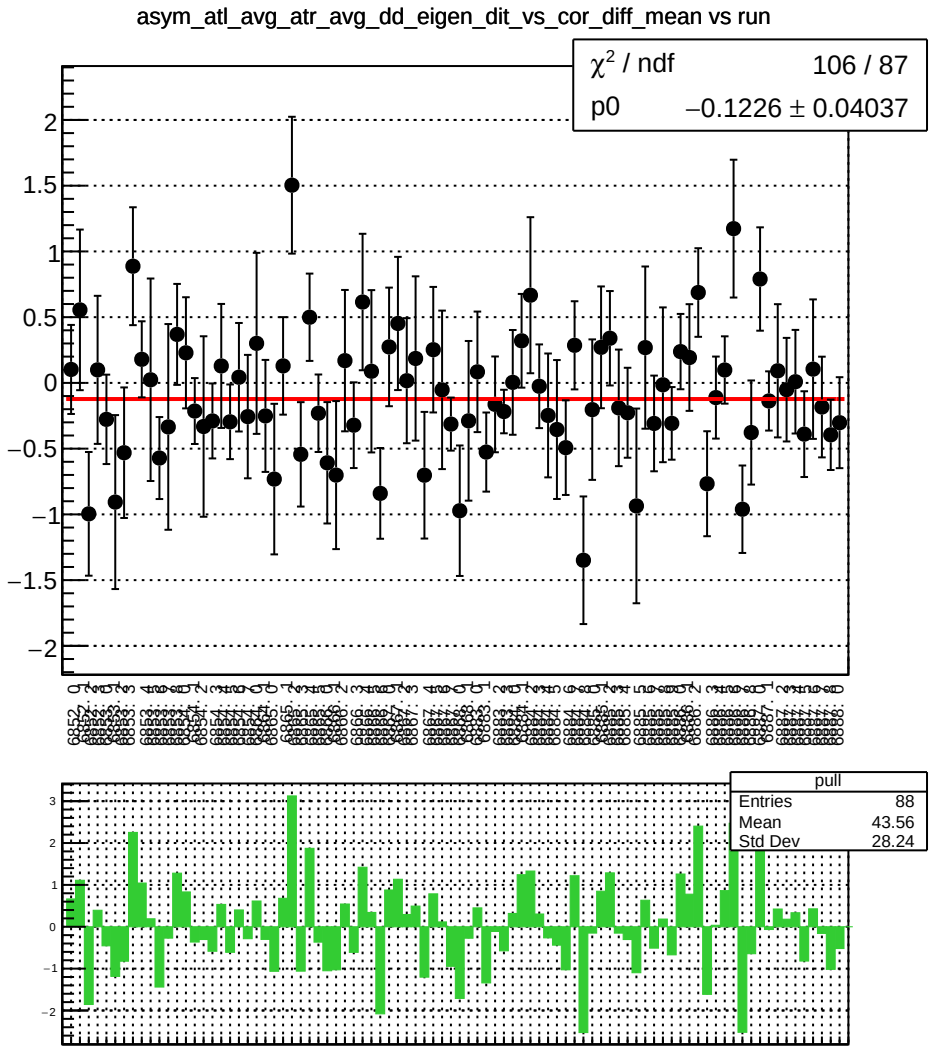

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106 / 87
p0 −0.1226 ± 0.04037
pull
Entries 88
Mean 43.57
Std Dev 28.25

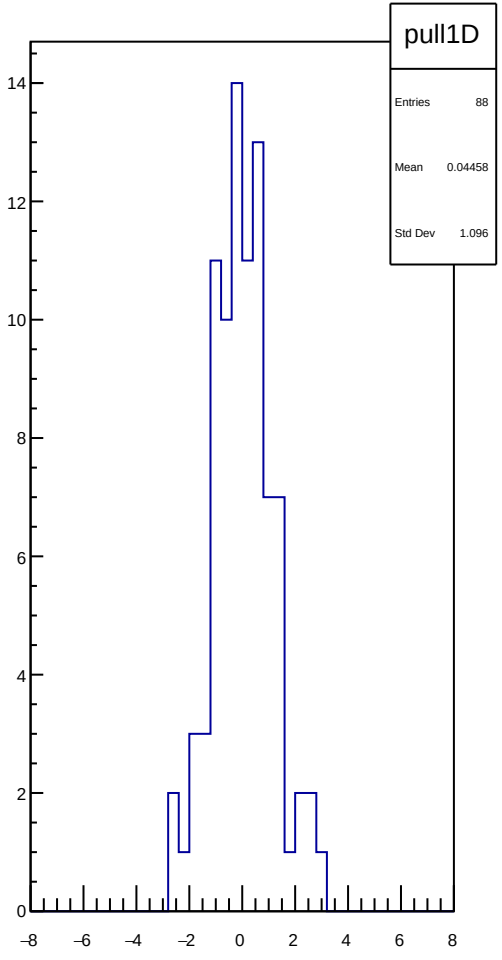

pull1D
Entries 88
Mean 0.04458
Std Dev 1.096

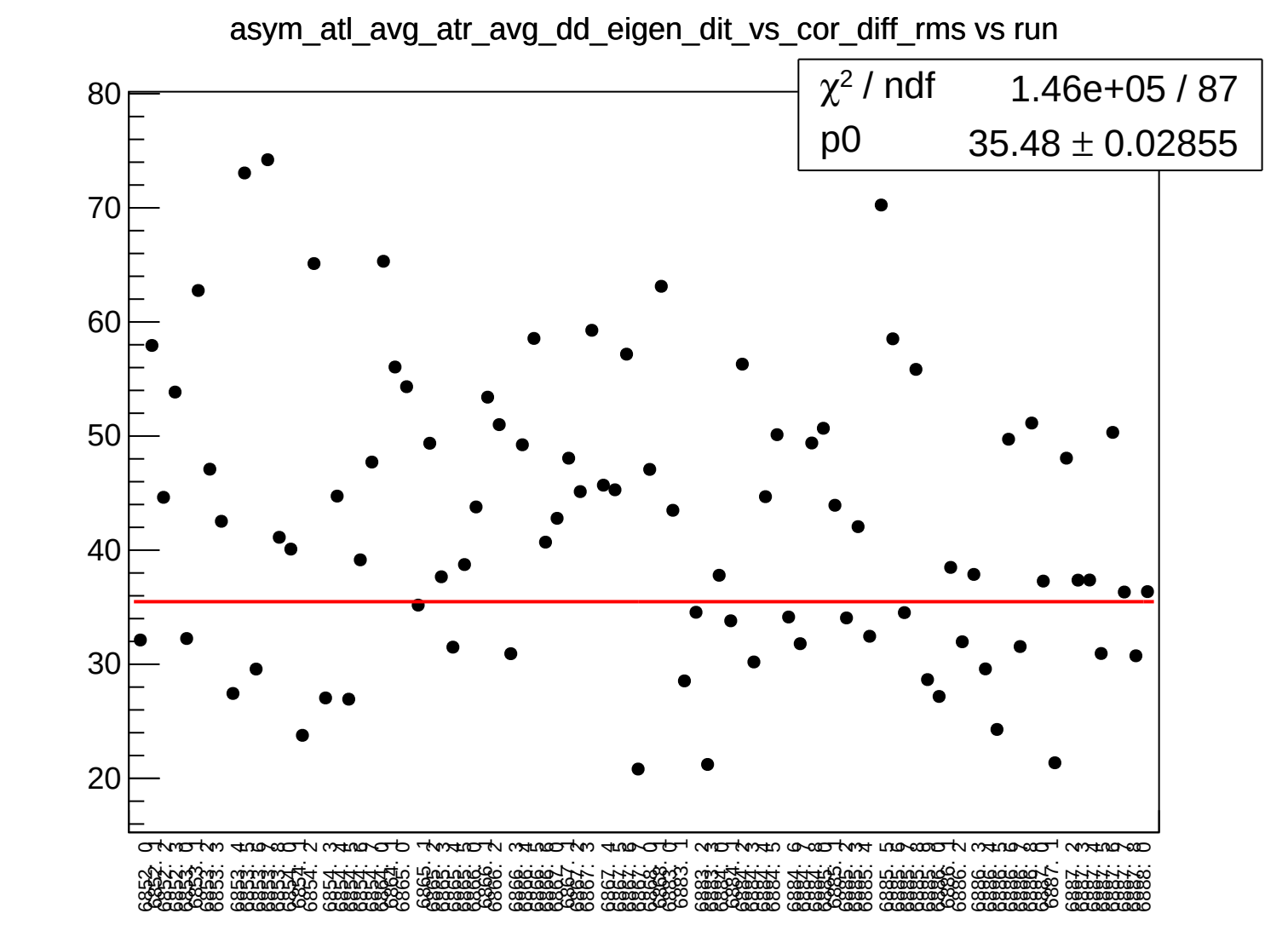

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.461e+05 / 87
p0 35.48 ± 0.02855
80
70
60
50
40
30
20

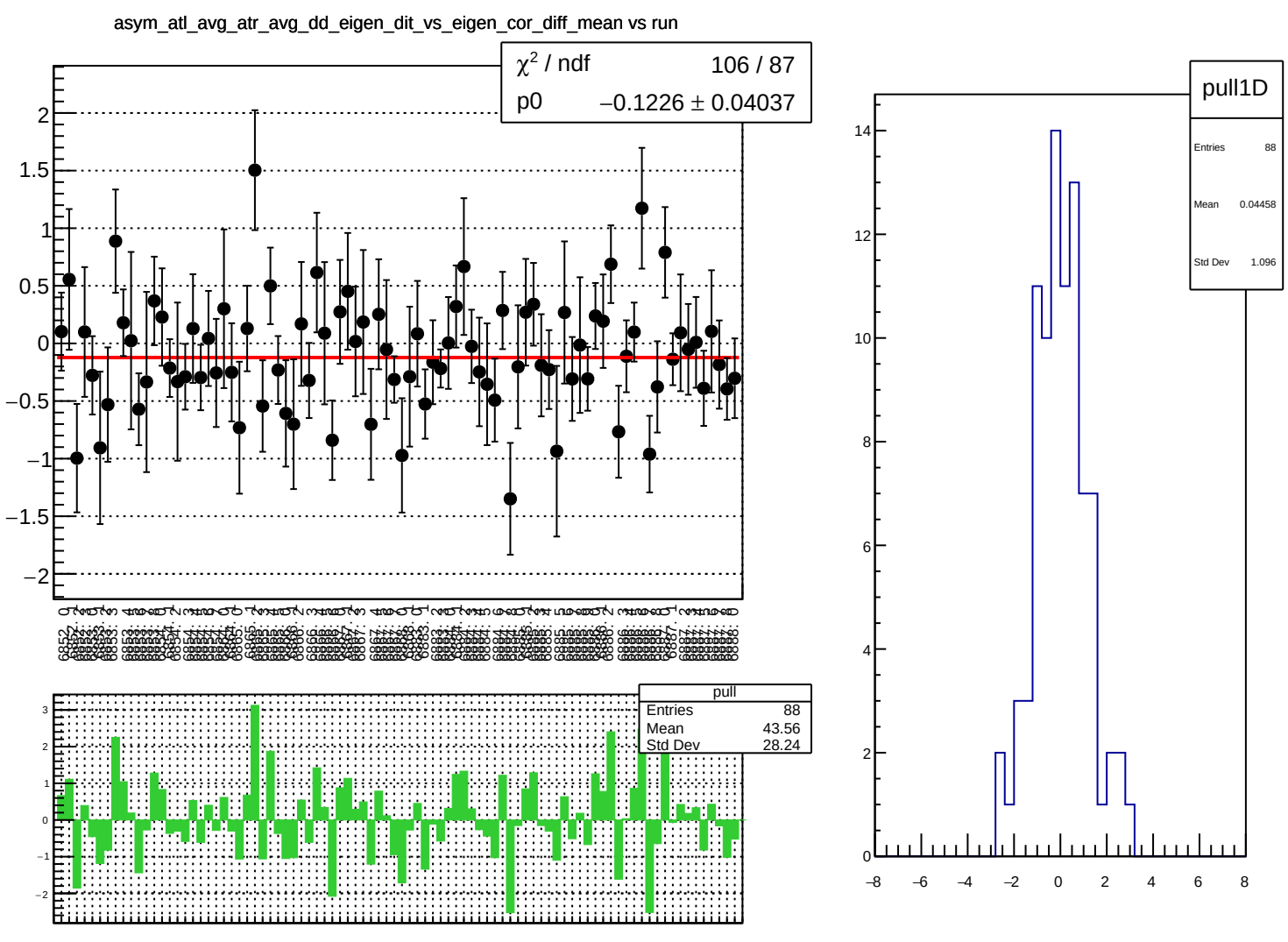

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.88 / 87
p0 3.09e−06 ± 3.887e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 338.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.007967
Std Dev 0.9936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

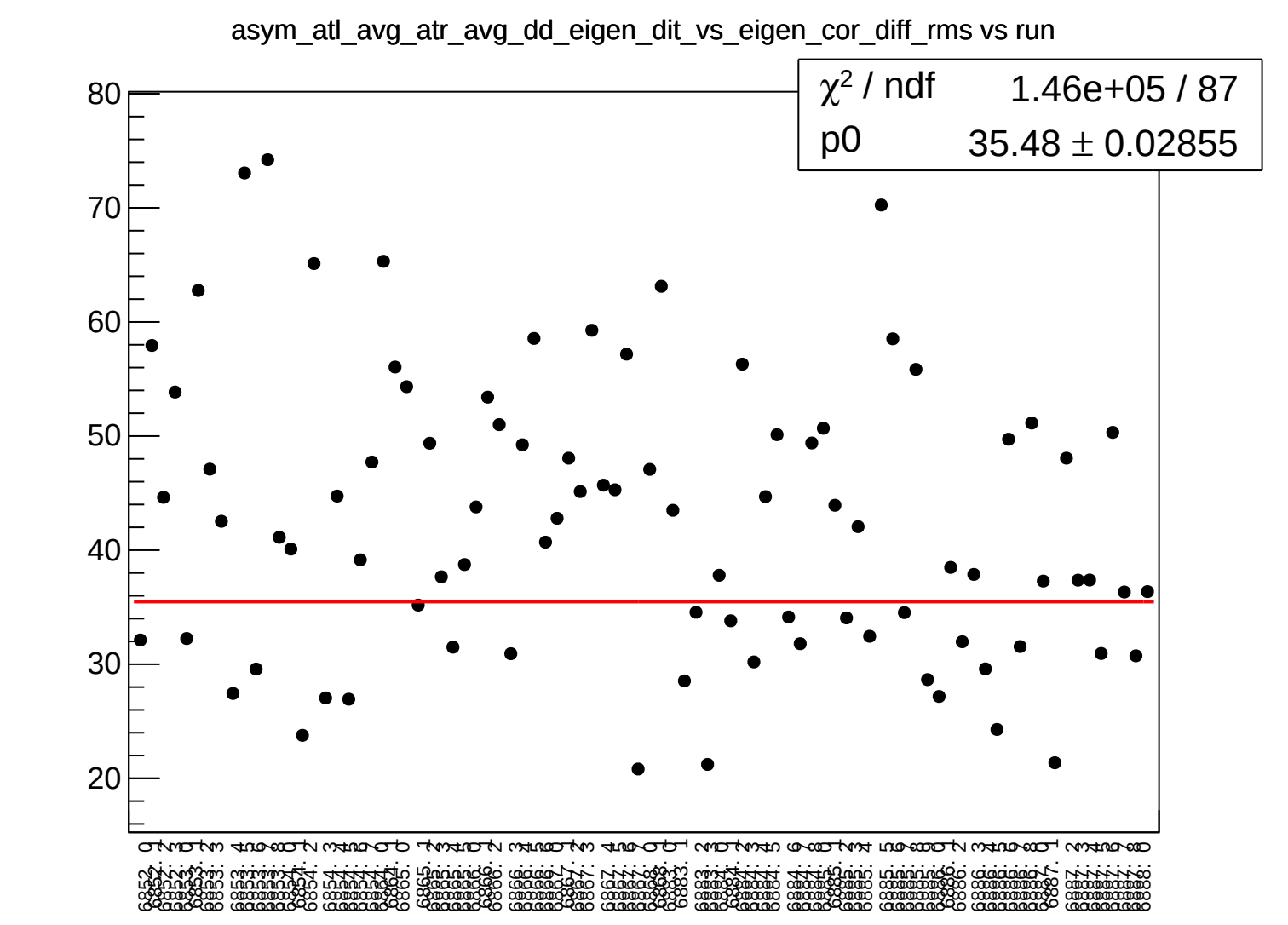

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.134e+04 / 87
p0 0.003508 ± 2.748e−06
0.005
0.0045
0.004
0.0035
0.003

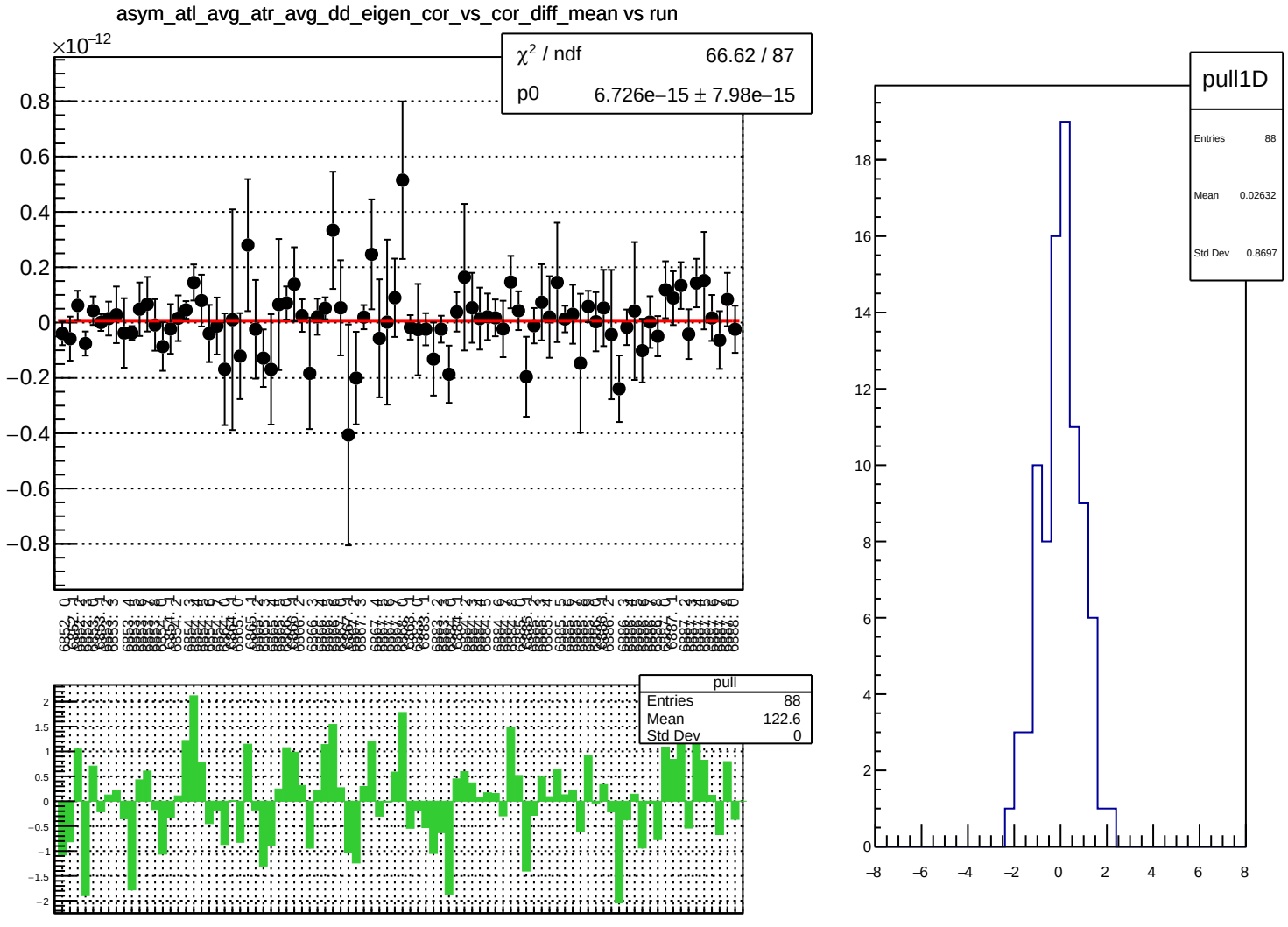

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106 / 87
p0 −0.1226 ± 0.04037
pull
Entries 88
Mean 43.56
Std Dev 28.24

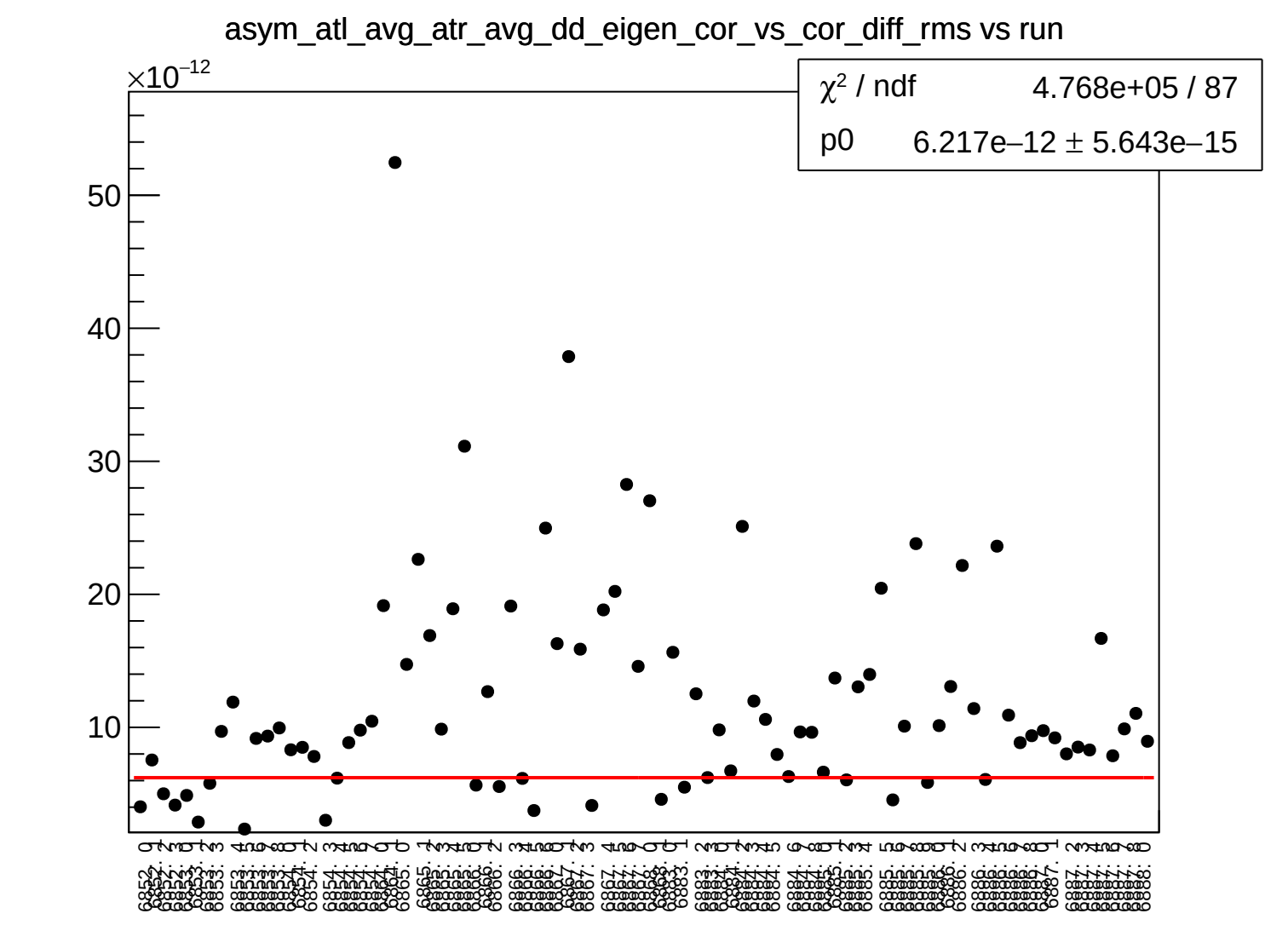

pull1D
Entries 88
Mean 0.04458
Std Dev 1.096

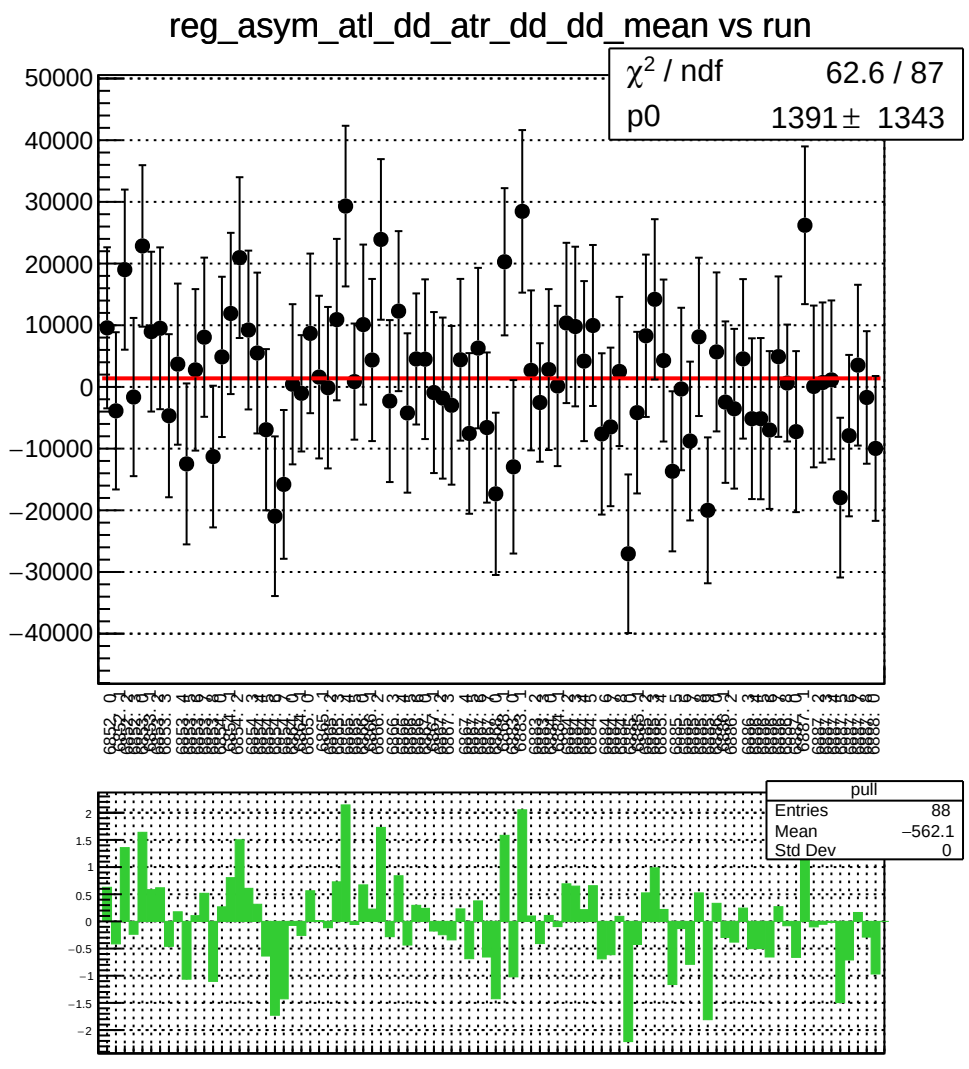

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.46e+05 / 87
p0 35.48 ± 0.02855
80
70
60
50
40
30
20

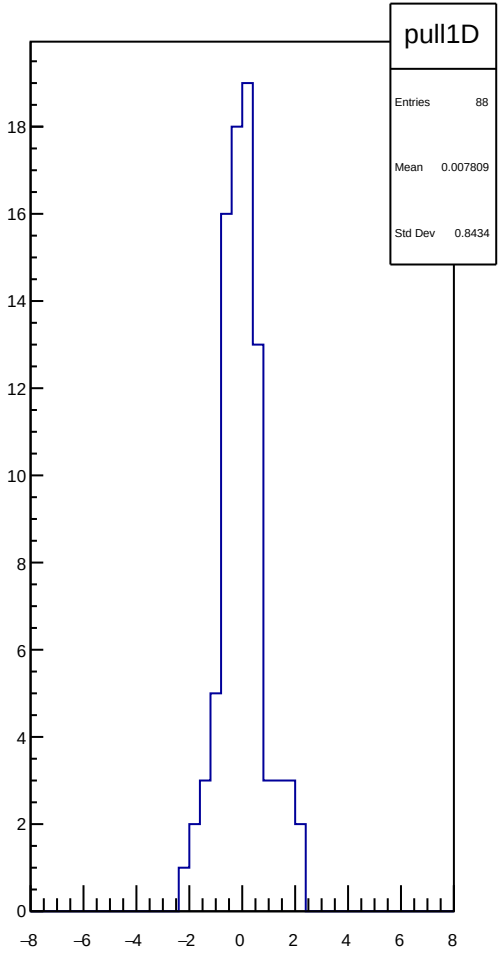

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106 / 87
p0 −0.1226 ± 0.04037
pull
Entries 88
Mean 43.56
Std Dev 28.24
pull1D
Entries 88
Mean 0.04458
Std Dev 1.096

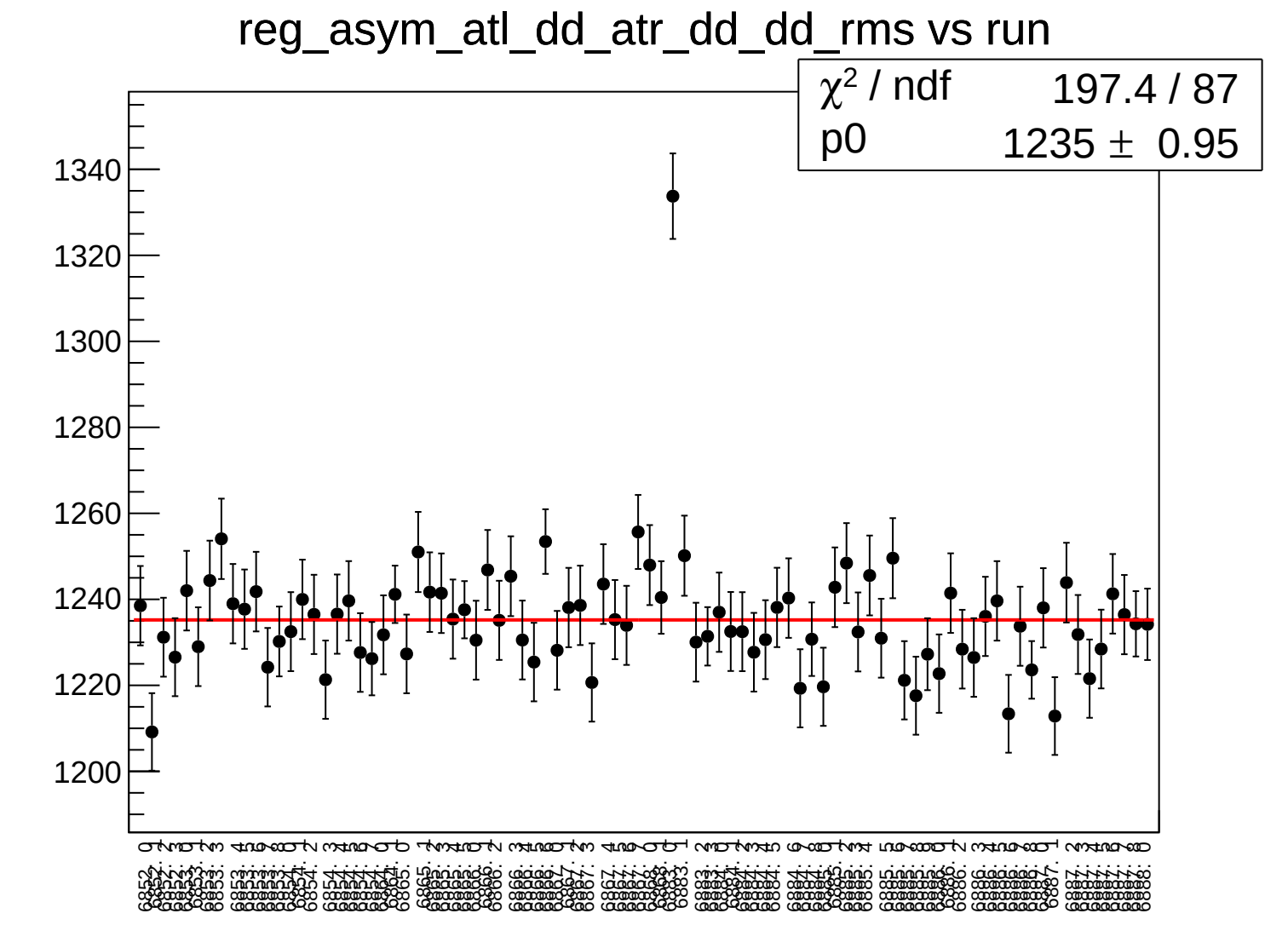

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.46e+05 / 87
p0 35.48 ± 0.02855
80
70
60
50
40
30
20

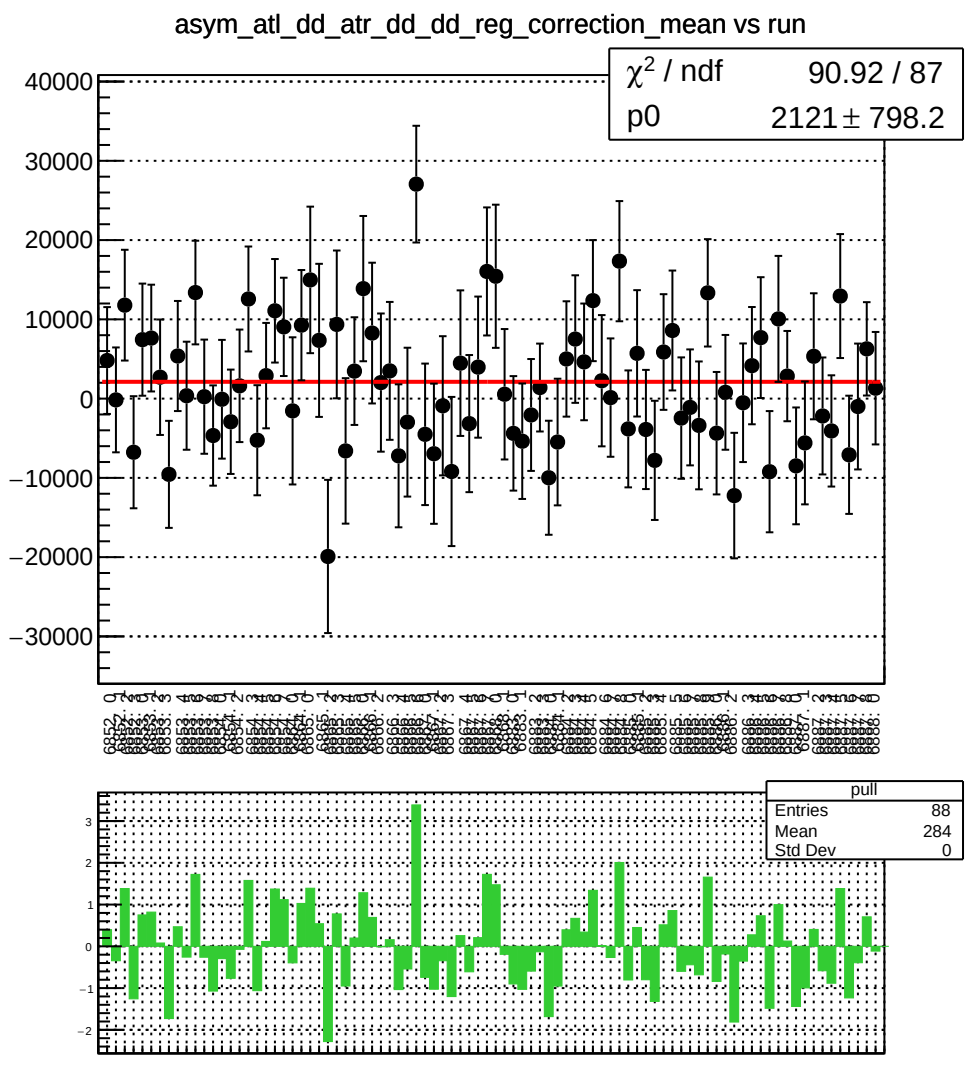

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.62 / 87
p0 6.726e−15 ± 7.98e−15
pull
Entries 88
Mean 122.6
Std Dev 0
pull1D
Entries 88
Mean 0.02632
Std Dev 0.8697

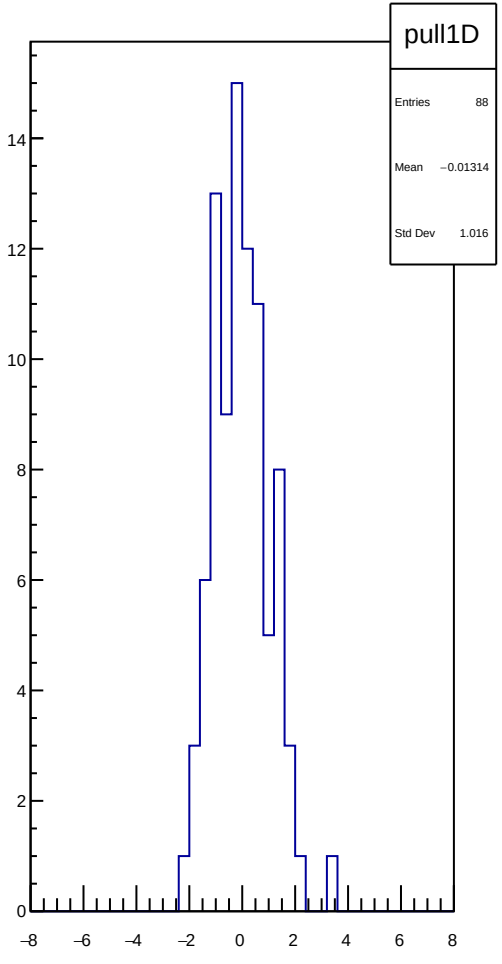

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.768e+05 / 87
p0 6.217e−12 ± 5.643e−15
50
40
30
20
10

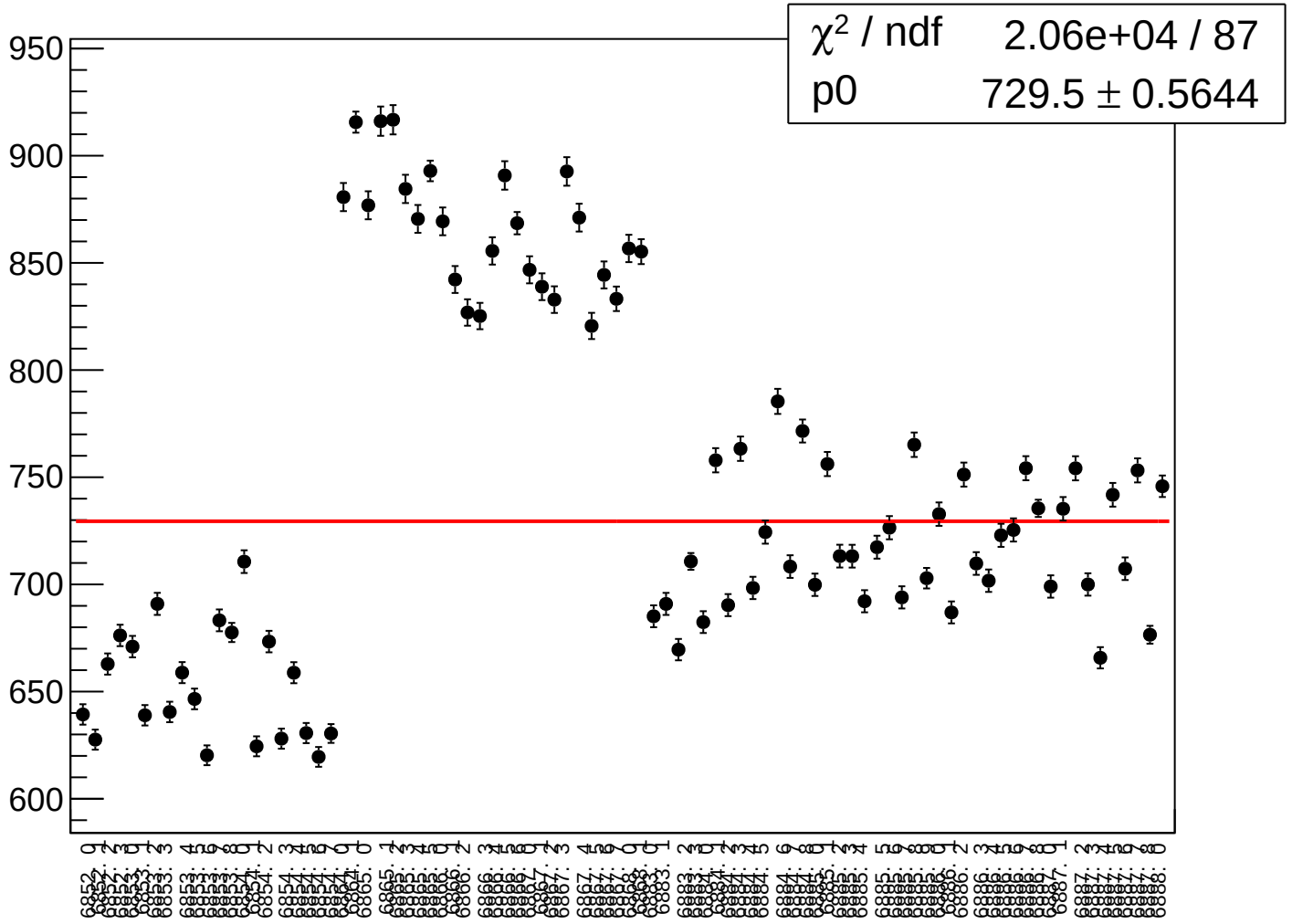

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 62.6 / 87
p0 1391 ± 1343
pull
Entries 88
Mean −562.1
Std Dev 0

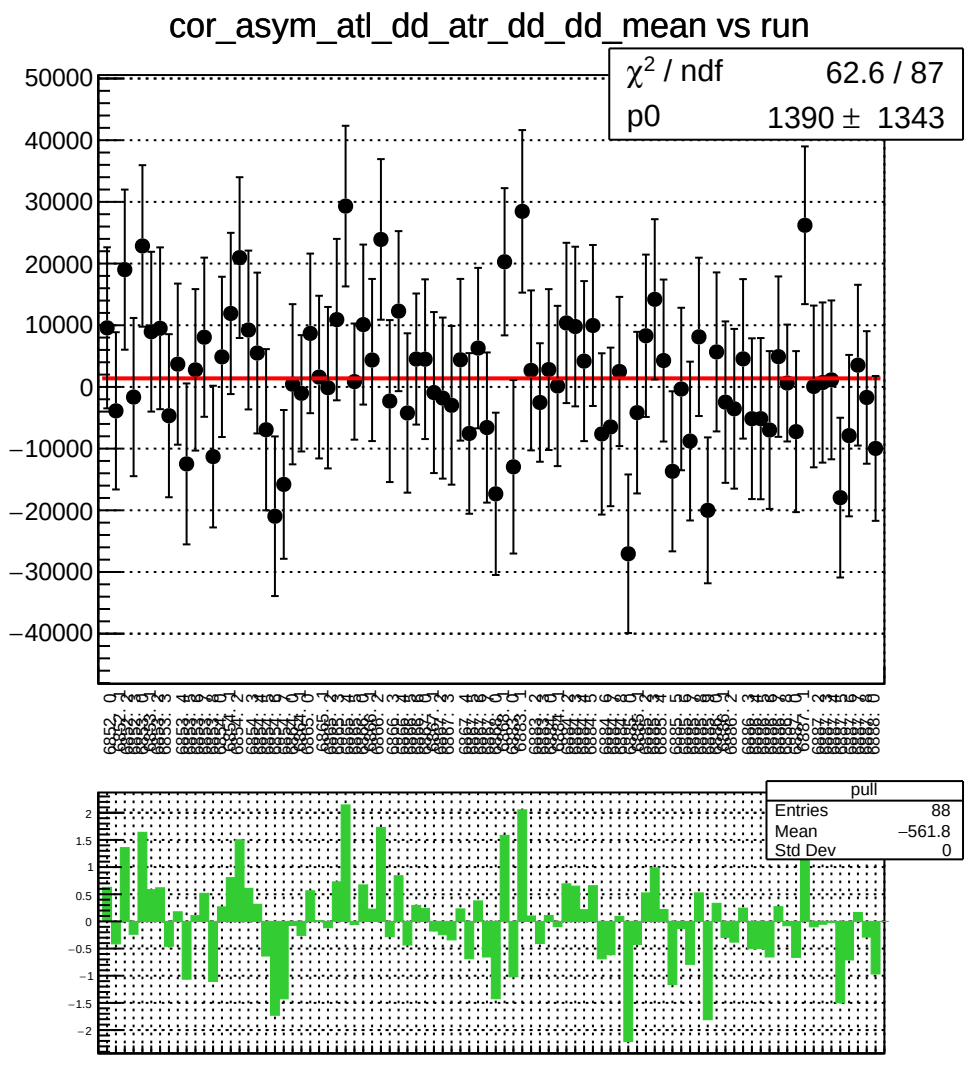

pull1D
Entries 88
Mean 0.007809
Std Dev 0.8434

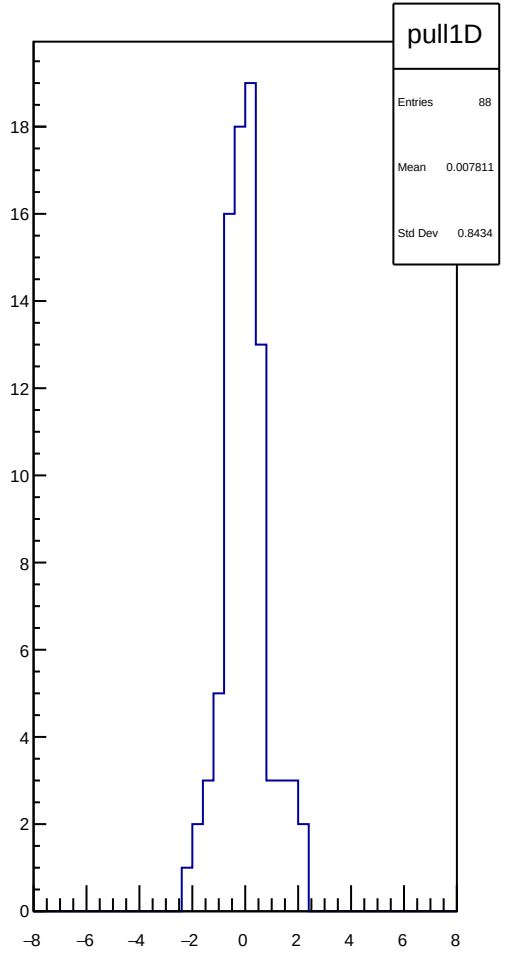

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 197.4 / 87
p0 1235 ± 0.95
1340
1320
1300
1280
1260
1240
1220
1200

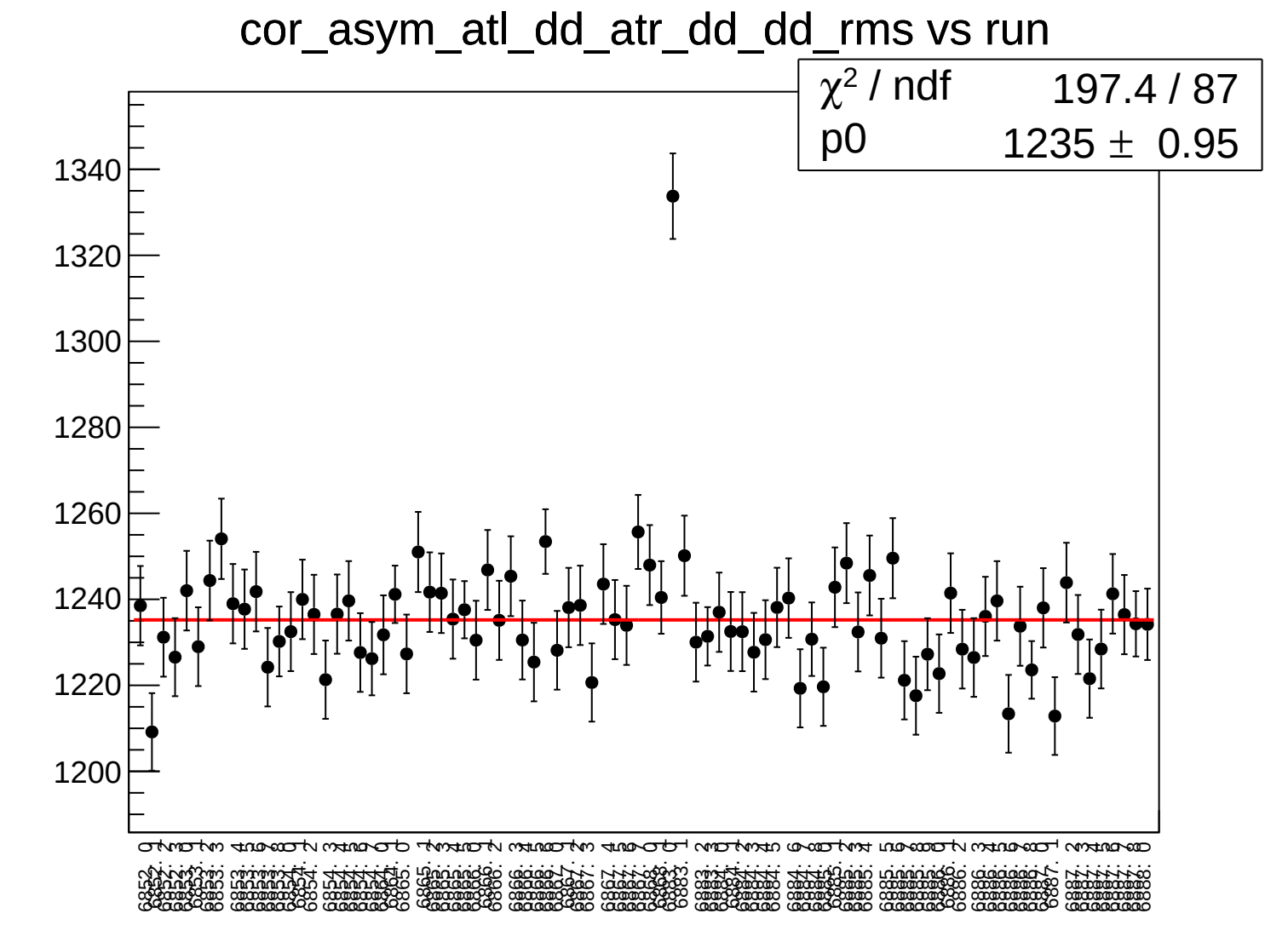

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 90.92 / 87
p0 2121 ± 798.2
pull
Entries 88
Mean 284
Std Dev 0

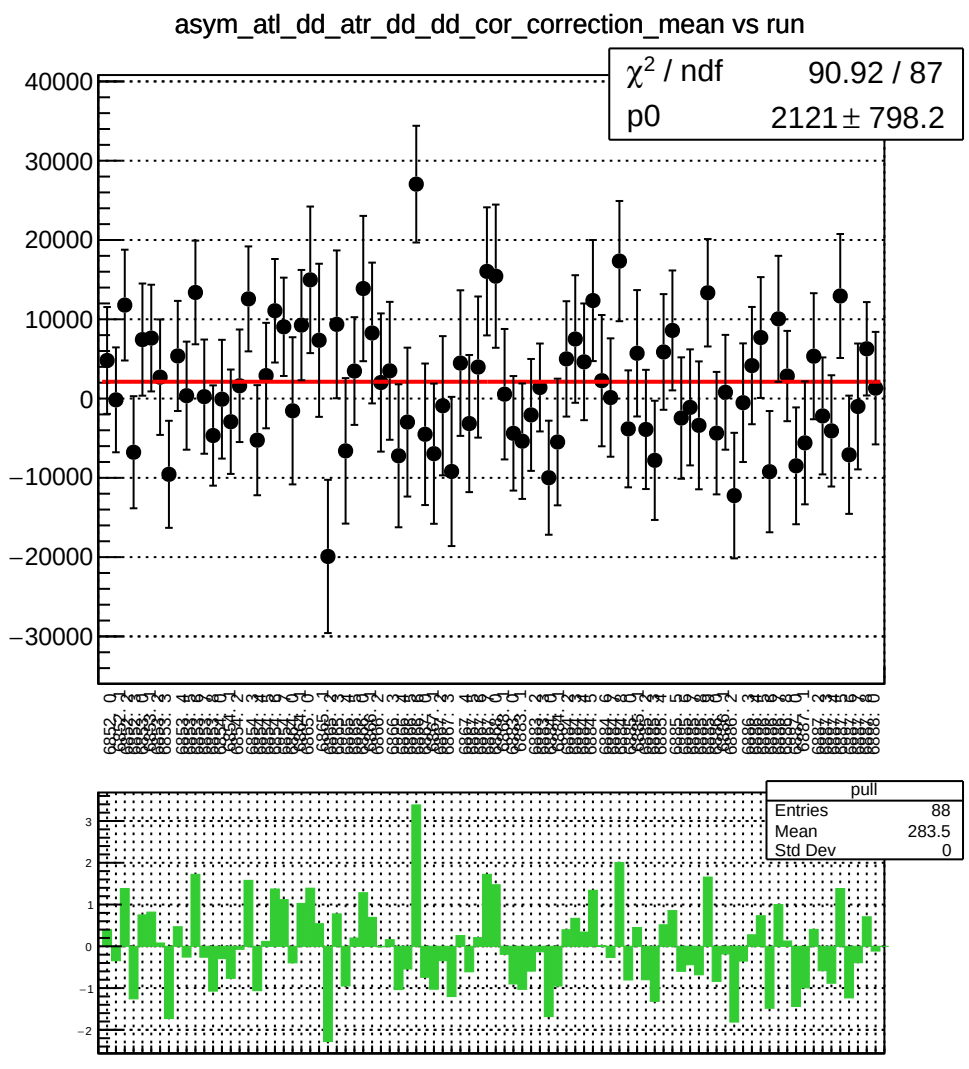

pull1D
Entries 88
Mean −0.01314
Std Dev 1.016

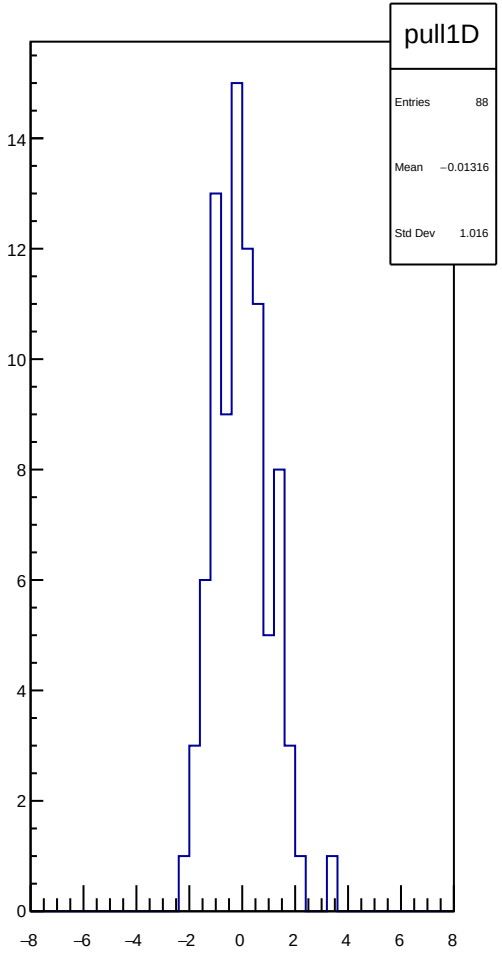

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.06e+04 / 87
p0 729.5 ± 0.5644
950
900
850
800
750
700
650
600

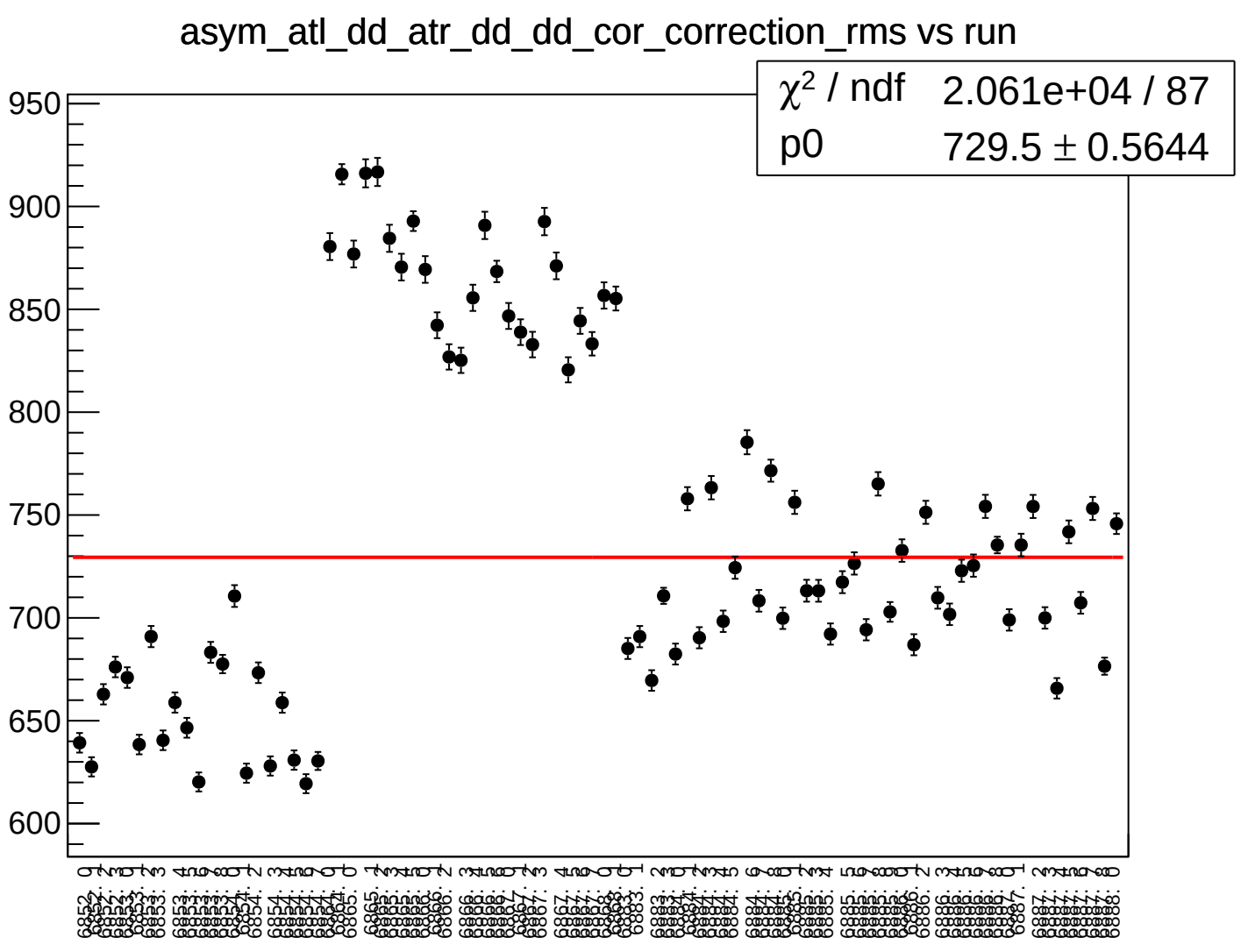

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 62.6 / 87
p0 1390 ± 1343
pull
Entries 88
Mean −561.8
Std Dev 0

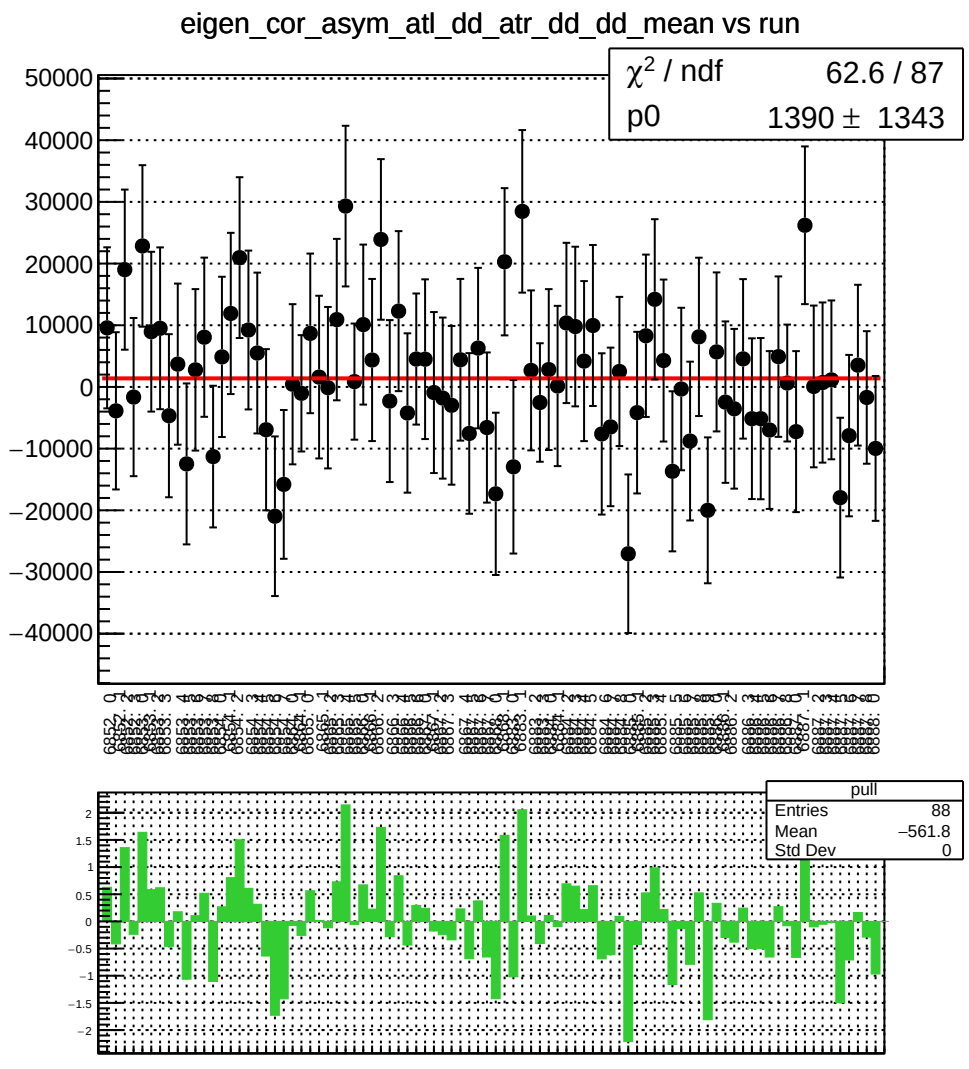

pull1D
Entries 88
Mean 0.007811
Std Dev 0.8434

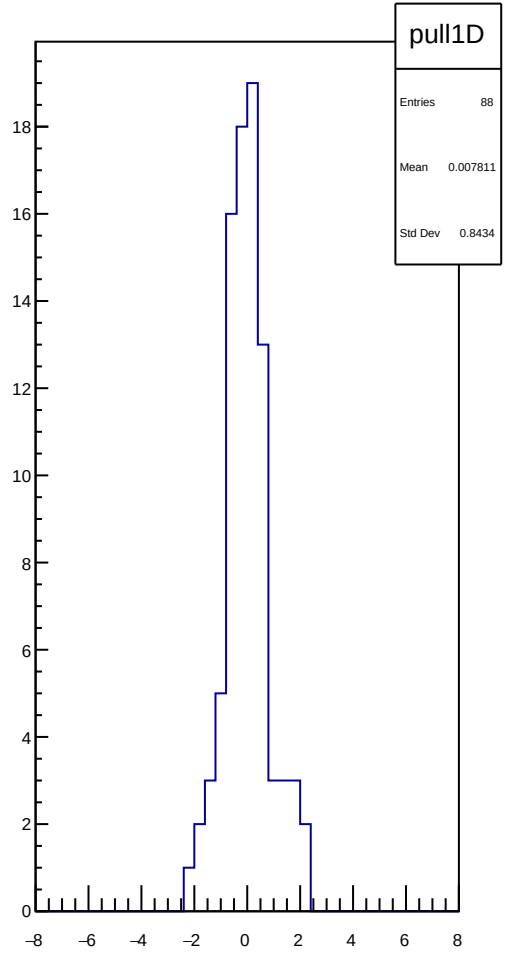

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 197.4 / 87
p0 1235 ± 0.95
1340
1320
1300
1280
1260
1240
1220
1200

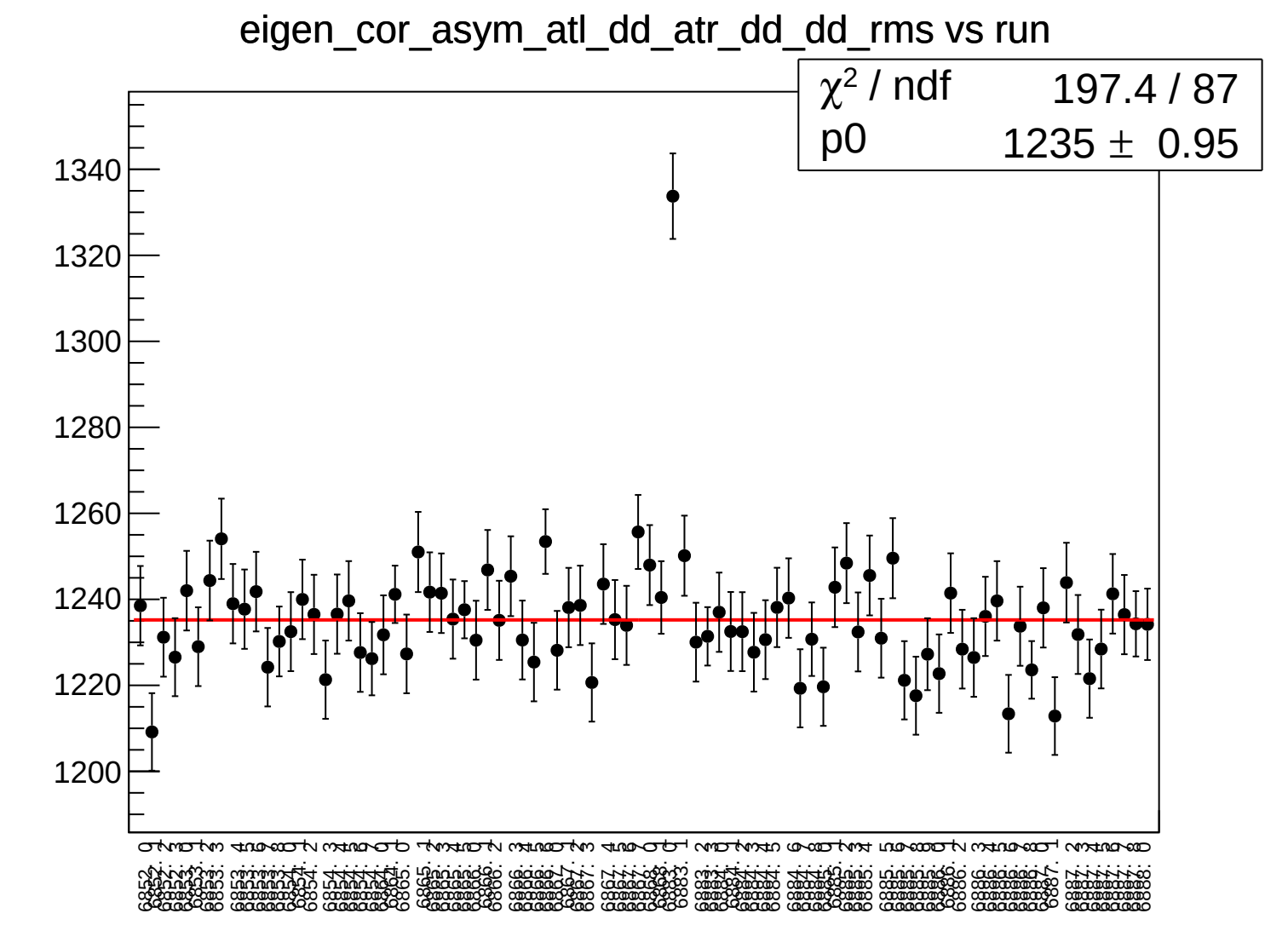

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 90.92 / 87
p0 2121 ± 798.2
pull
Entries 88
Mean 283.5
Std Dev 0

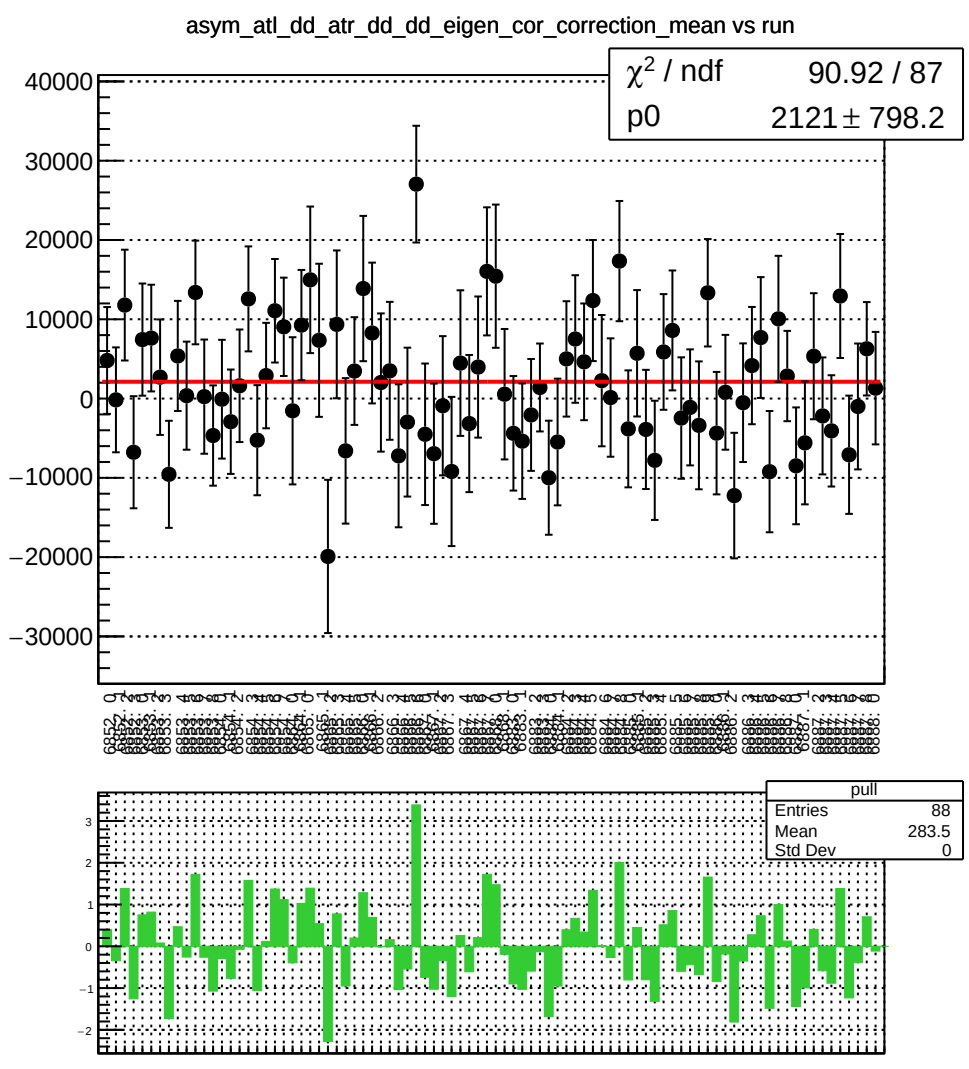

pull1D
Entries 88
Mean −0.01316
Std Dev 1.016

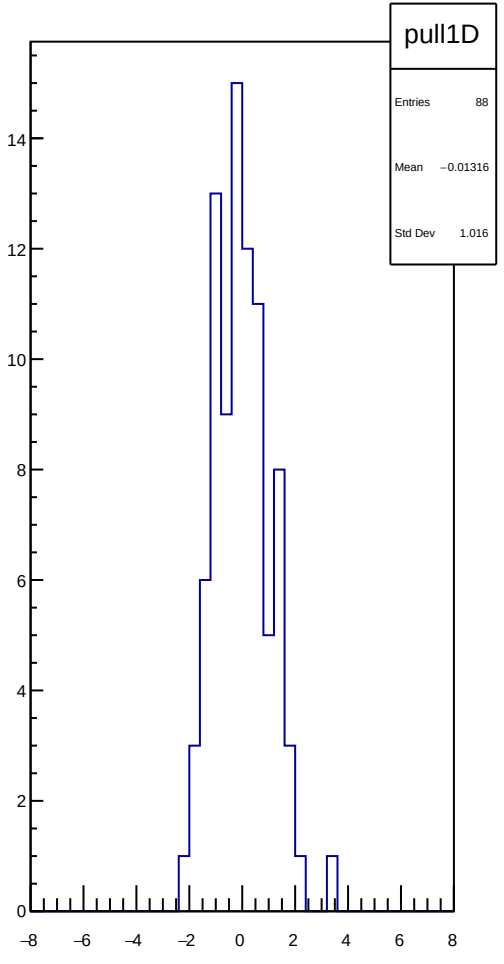

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.061e+04 / 87
p0 729.5 ± 0.5644
950
900
850
800
750
700
650
600

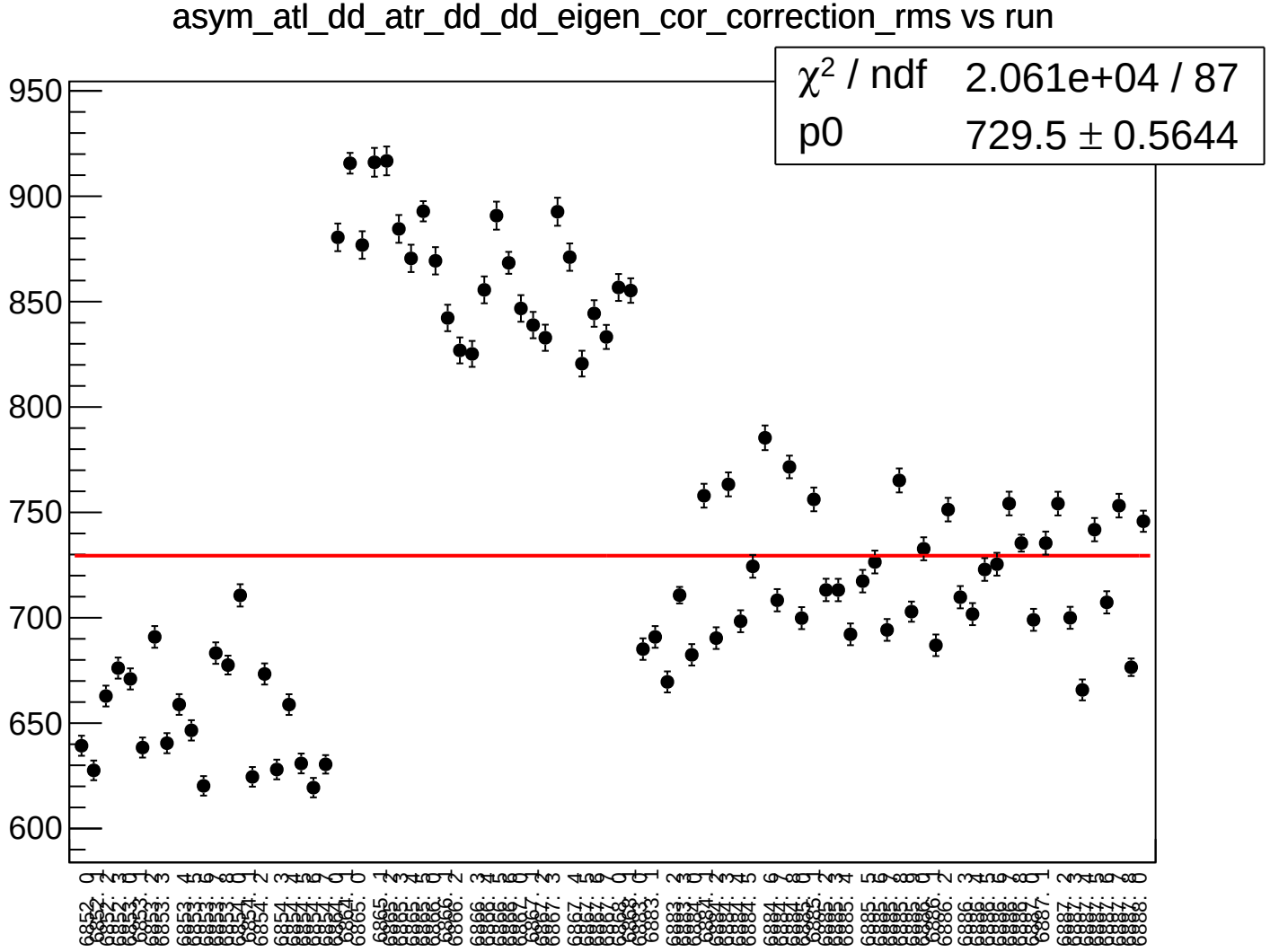

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 62.6 / 87
p0 1390 ± 1343
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −561.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

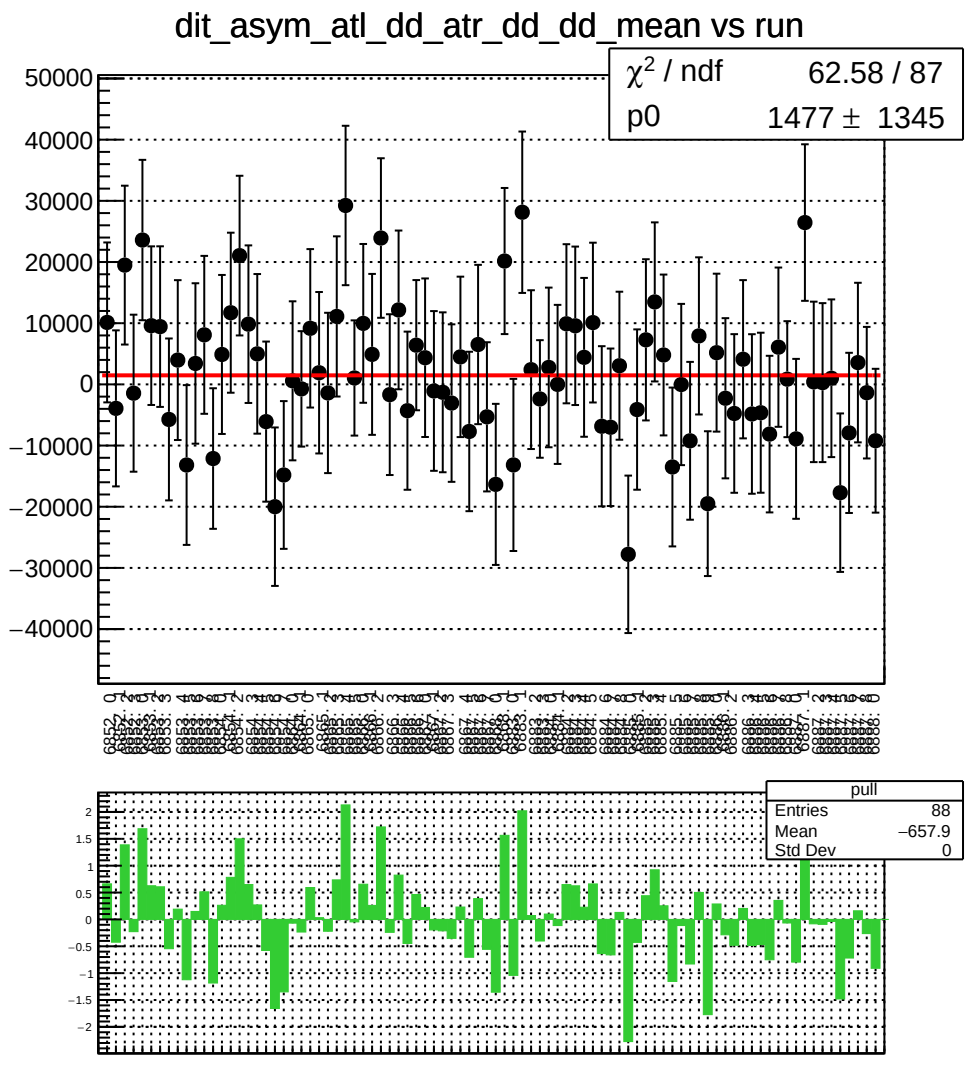

pull1D
Entries 88
Mean 0.007811
Std Dev 0.8434
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

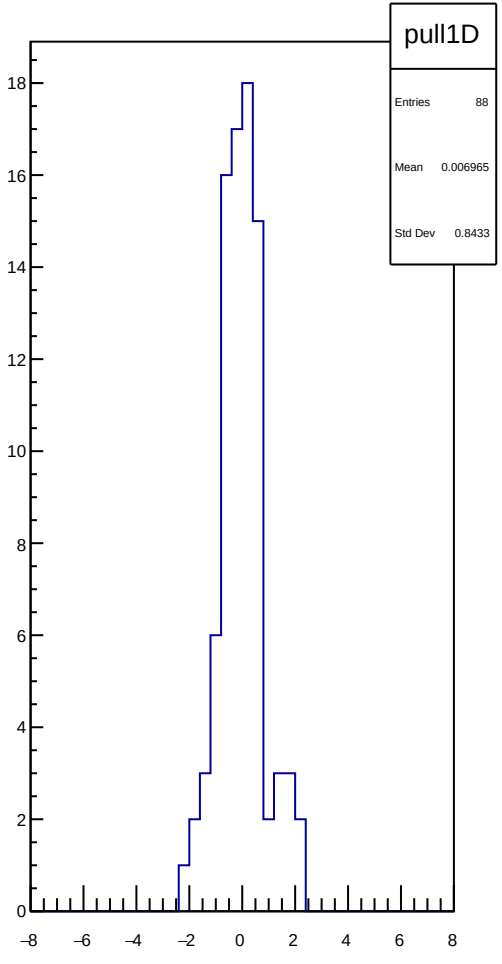

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 197.4 / 87
p0 1235 ± 0.95
1340
1320
1300
1280
1260
1240
1220
1200

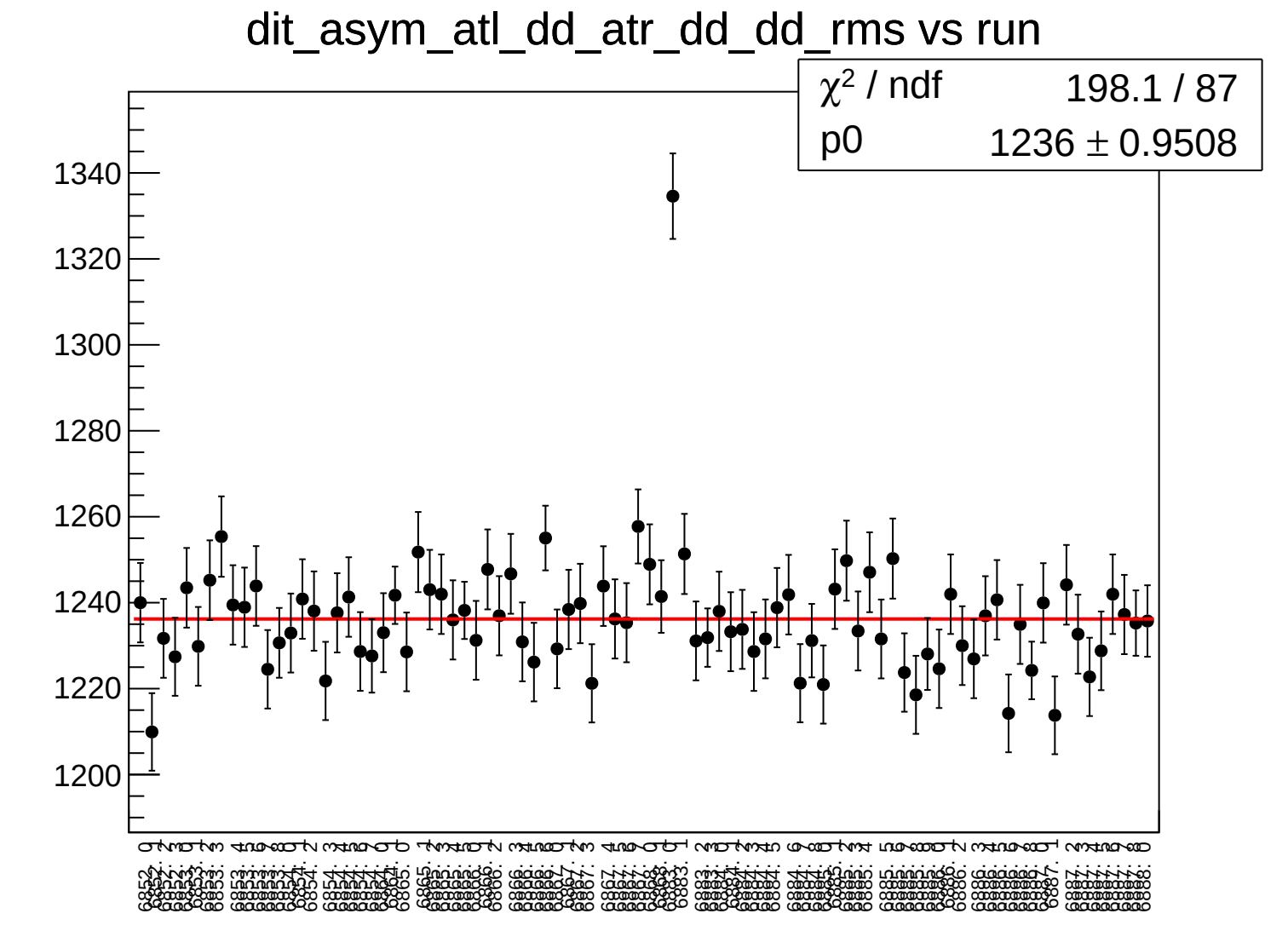

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.92 / 87
p0 2121 ± 798.2
pull
Entries 88
Mean 283.5
Std Dev 0

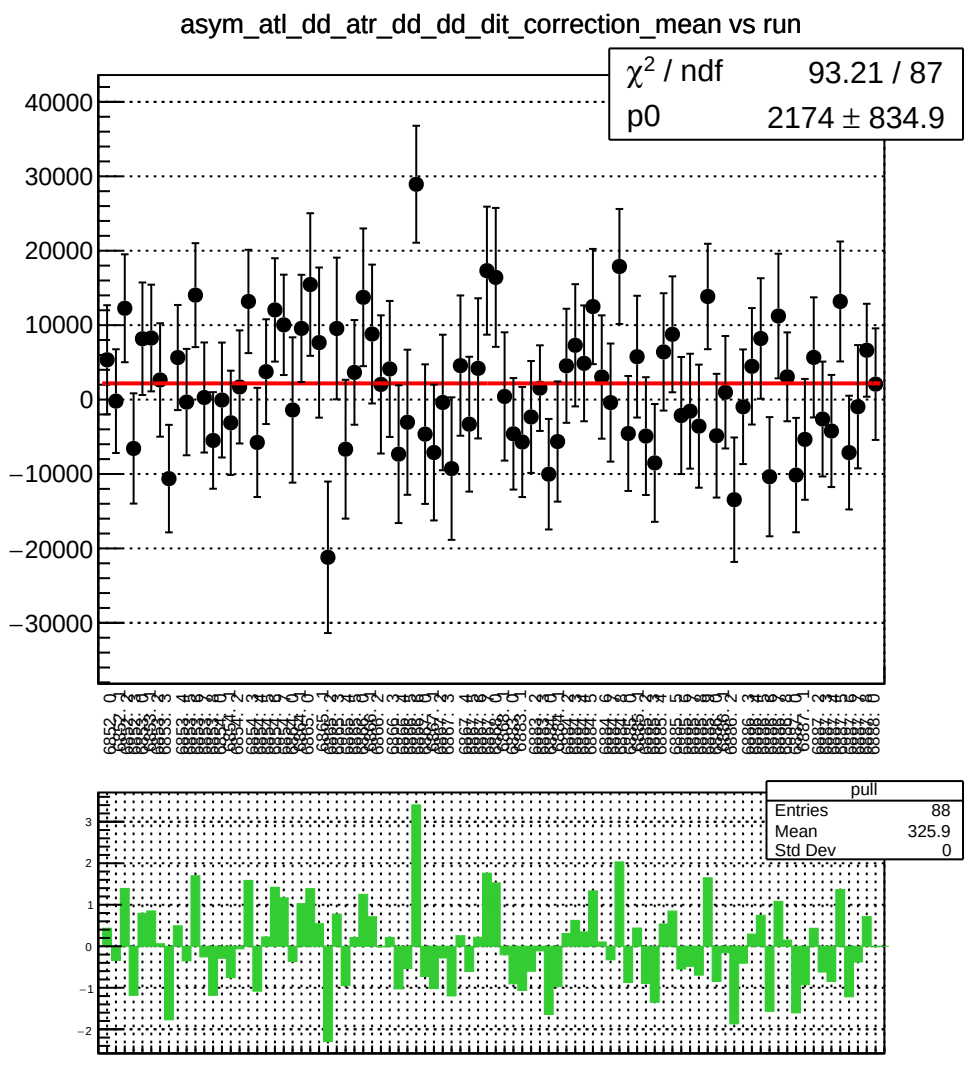

pull1D
Entries 88
Mean −0.01316
Std Dev 1.016

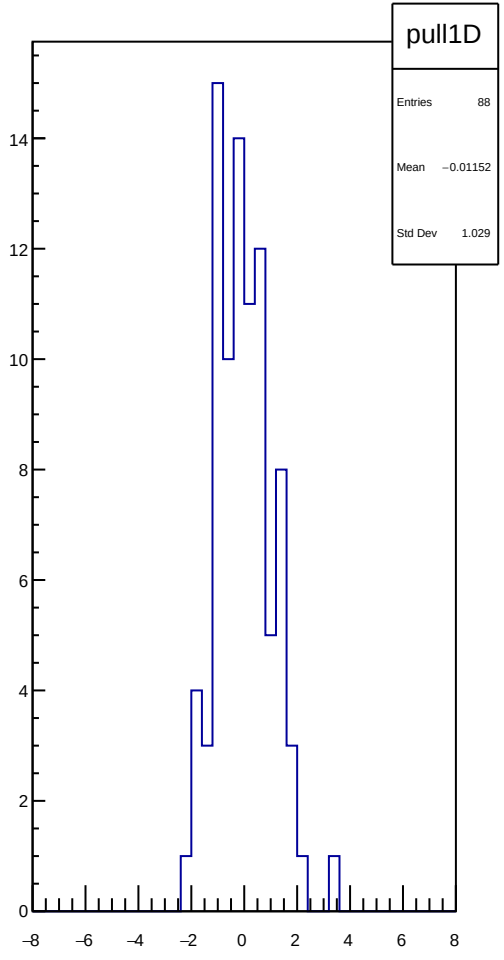

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.061e+04 / 87
p0 729.5 ± 0.5644
950
900
850
800
750
700
650
600

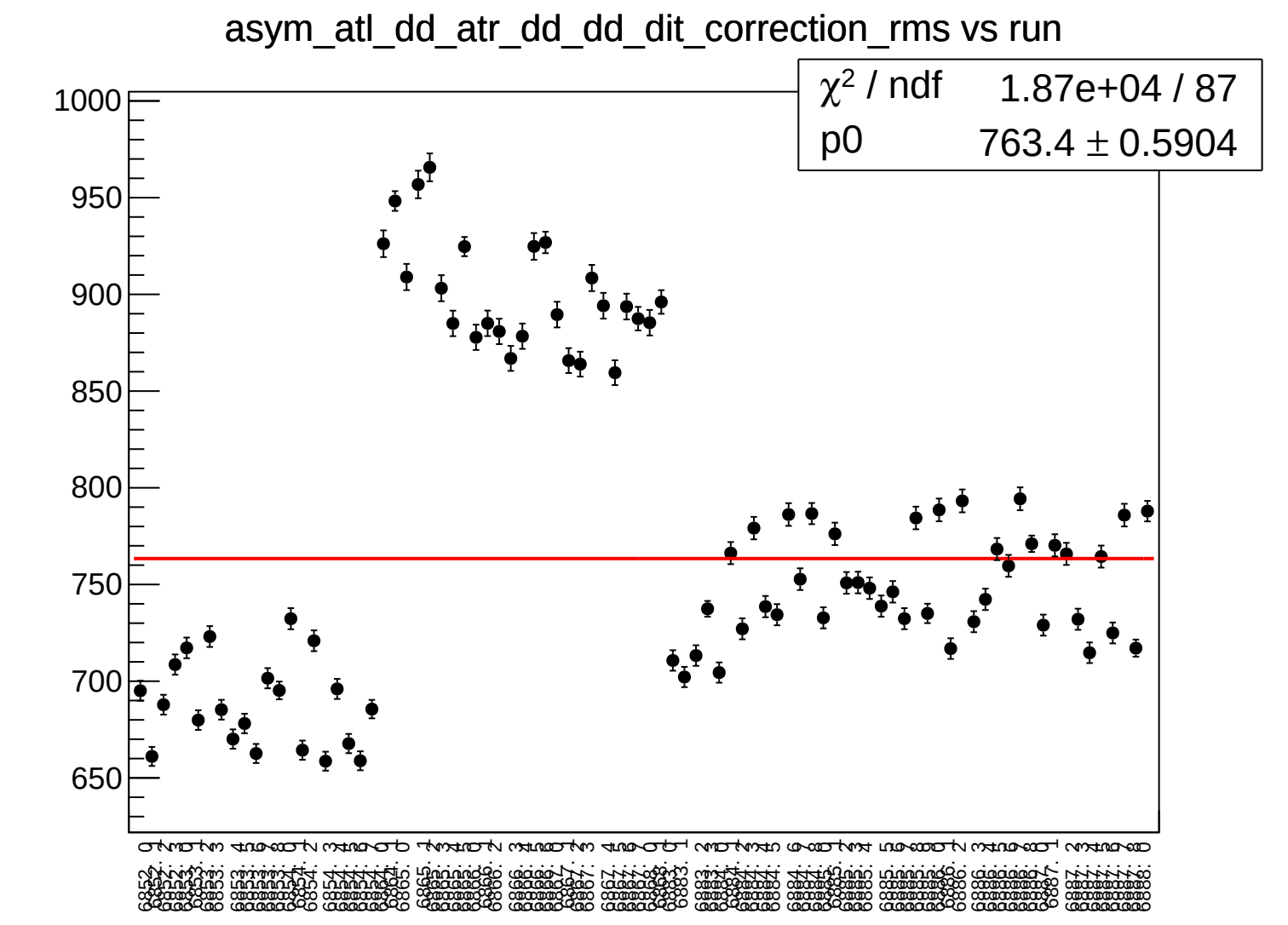

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 62.58 / 87
p0 1477 ± 1345
pull
Entries 88
Mean −657.9
Std Dev 0

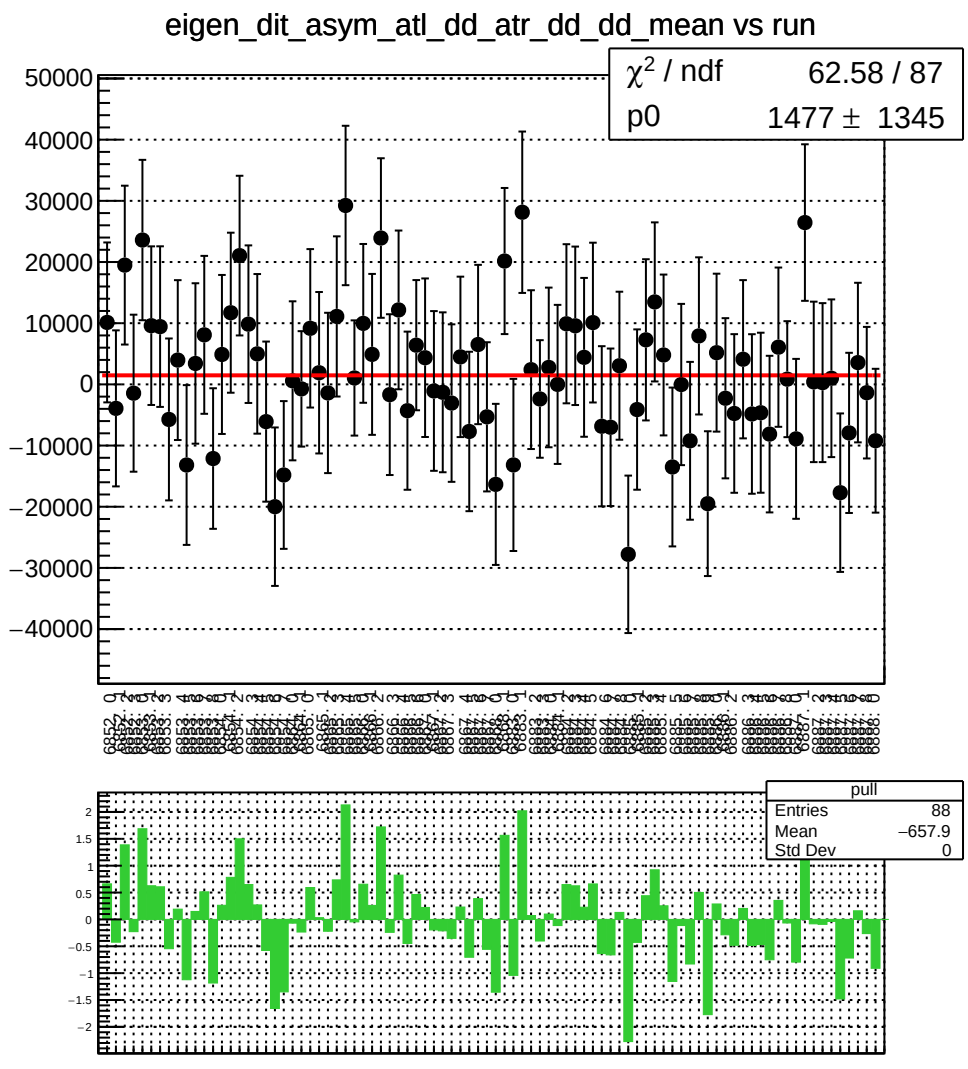

pull1D
Entries 88
Mean 0.006965
Std Dev 0.8433

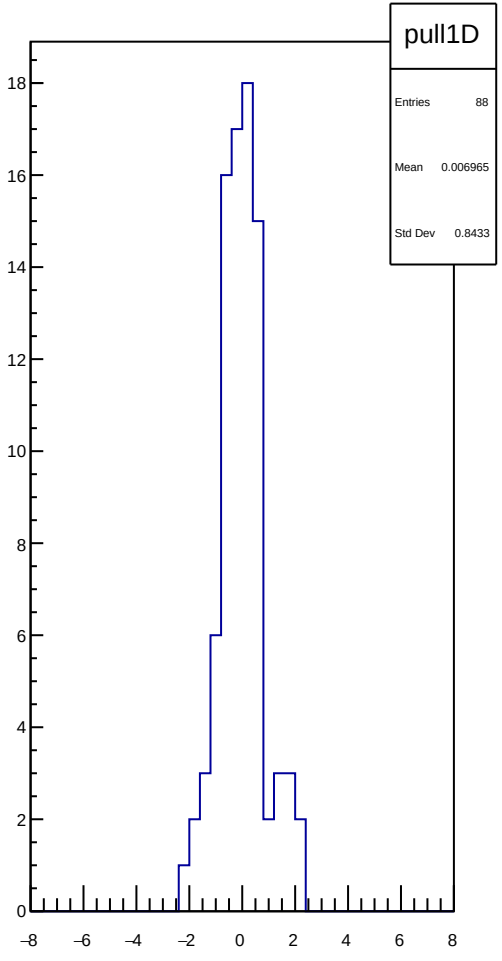

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 198.1 / 87
p0 1236 ± 0.9508
1340
1320
1300
1280
1260
1240
1220
1200

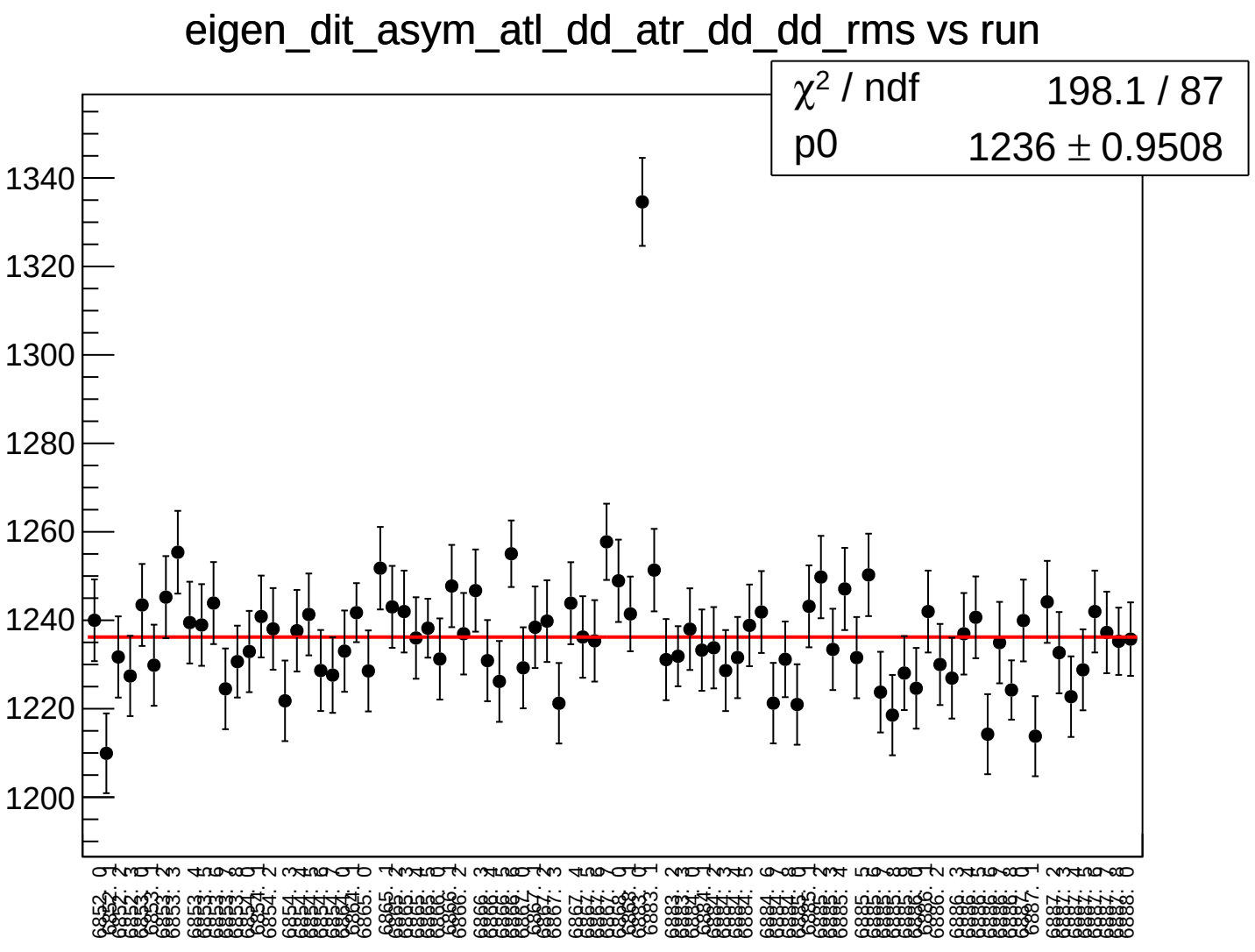

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 93.21 / 87
p0 2174 ± 834.9
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 325.9
Std Dev 0
3
2
1
0
−1
−2

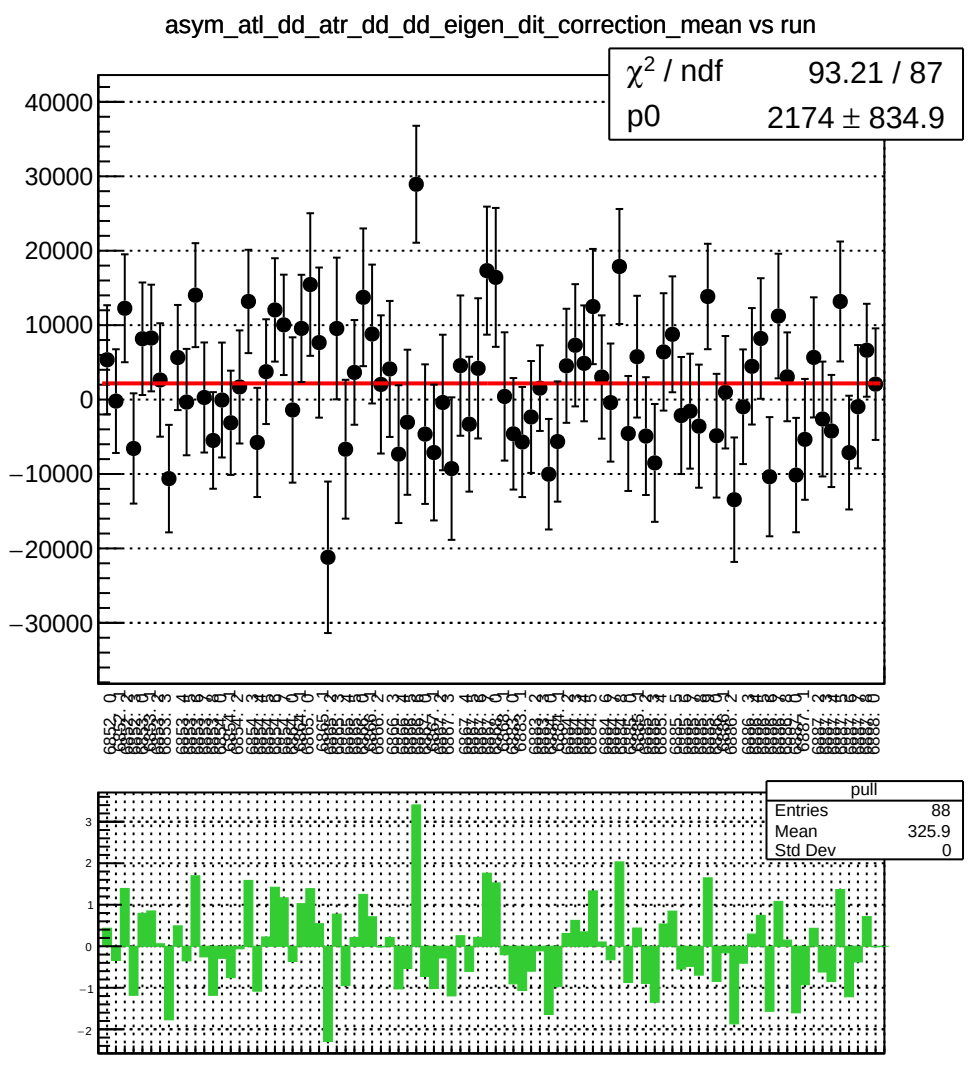

pull1D
Entries 88
Mean −0.01152
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

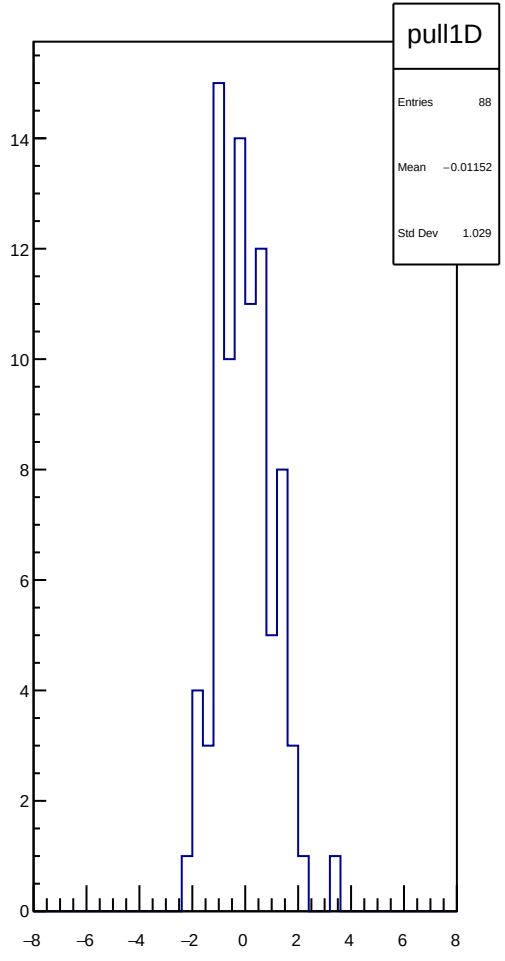

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.87e+04 / 87
p0 763.4 ± 0.5904
1000
950
900
850
800
750
700
650

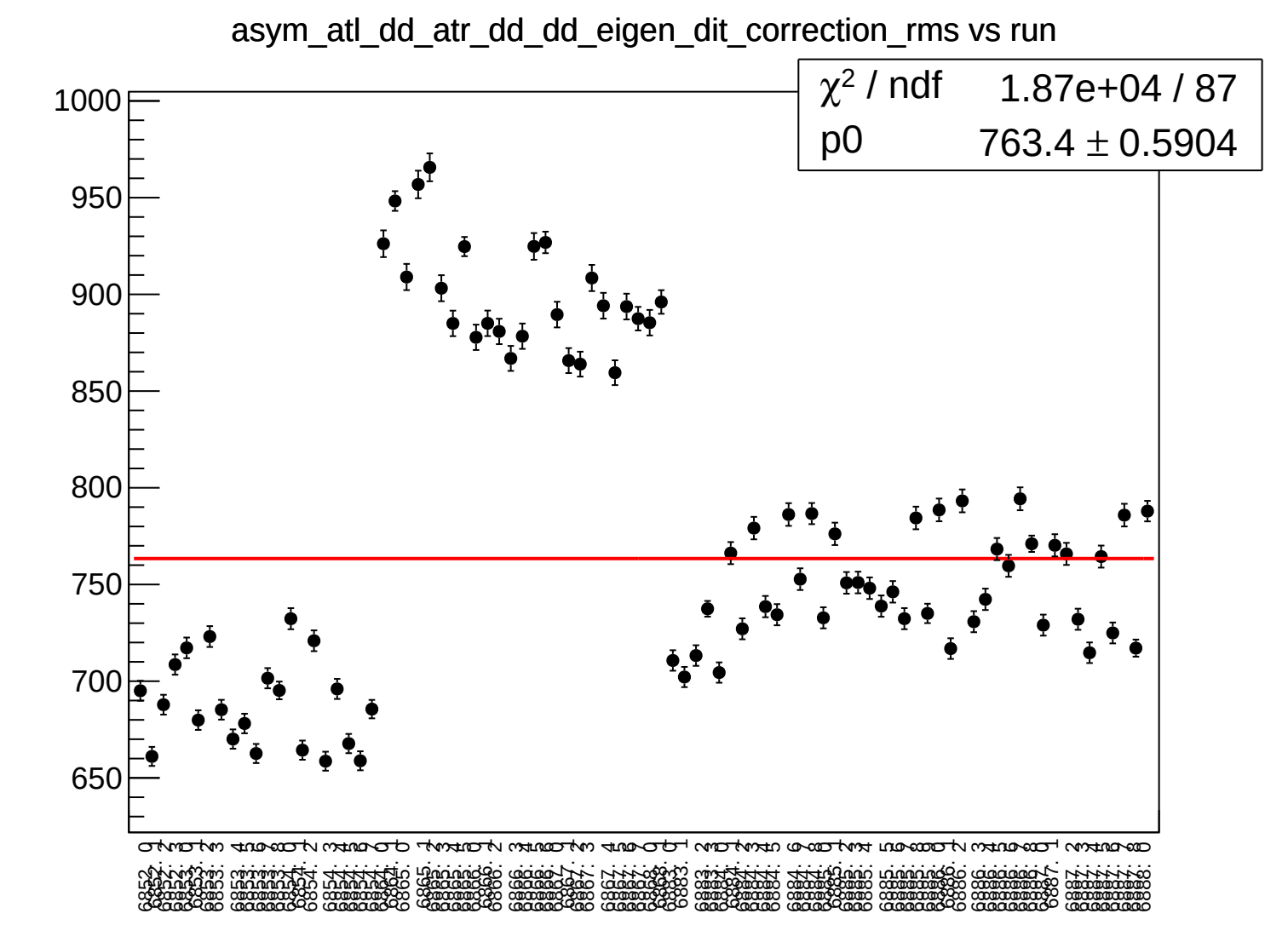

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ^2 / ndf 62.58 / 87
p0 1477 ± 1345
pull
Entries 88
Mean −657.9
Std Dev 0

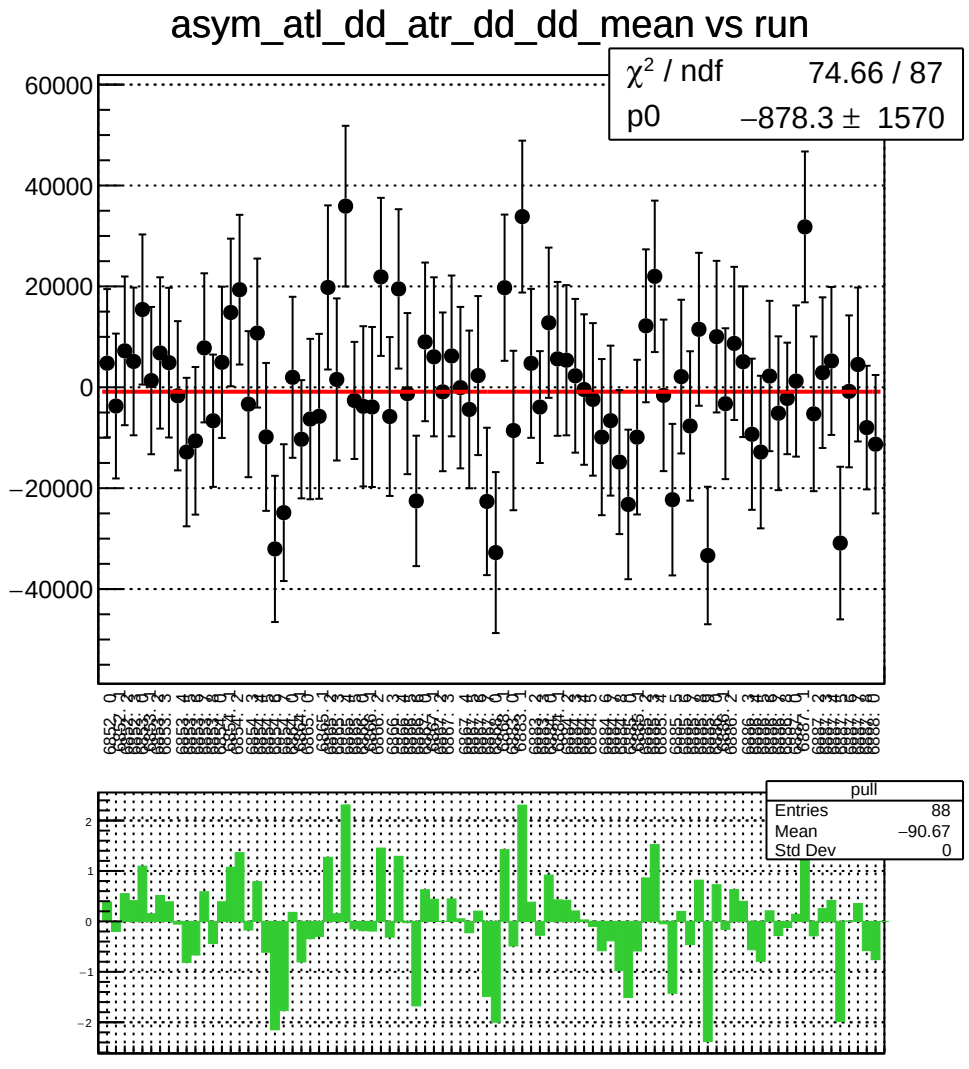

pull1D
Entries 88
Mean 0.006965
Std Dev 0.8433

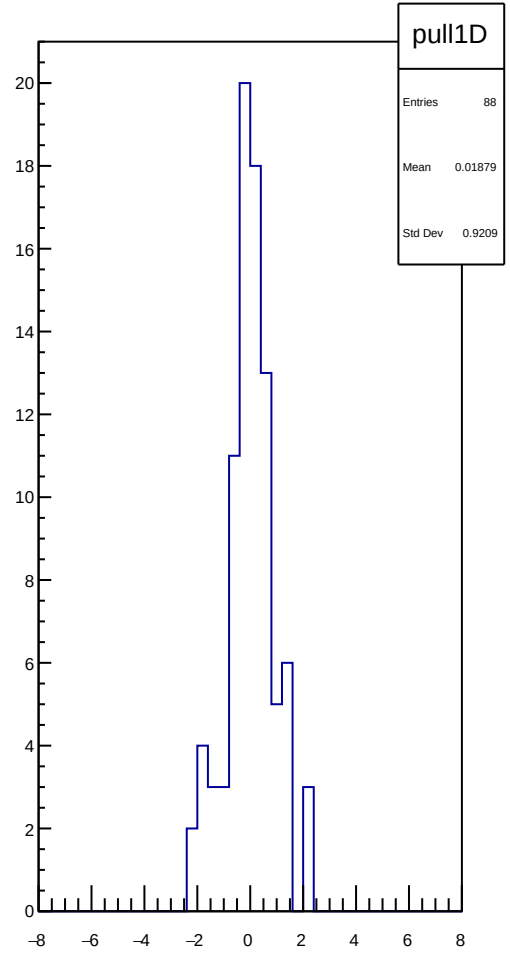

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 198.1 / 87
p0 1236 ± 0.9508
1340
1320
1300
1280
1260
1240
1220
1200

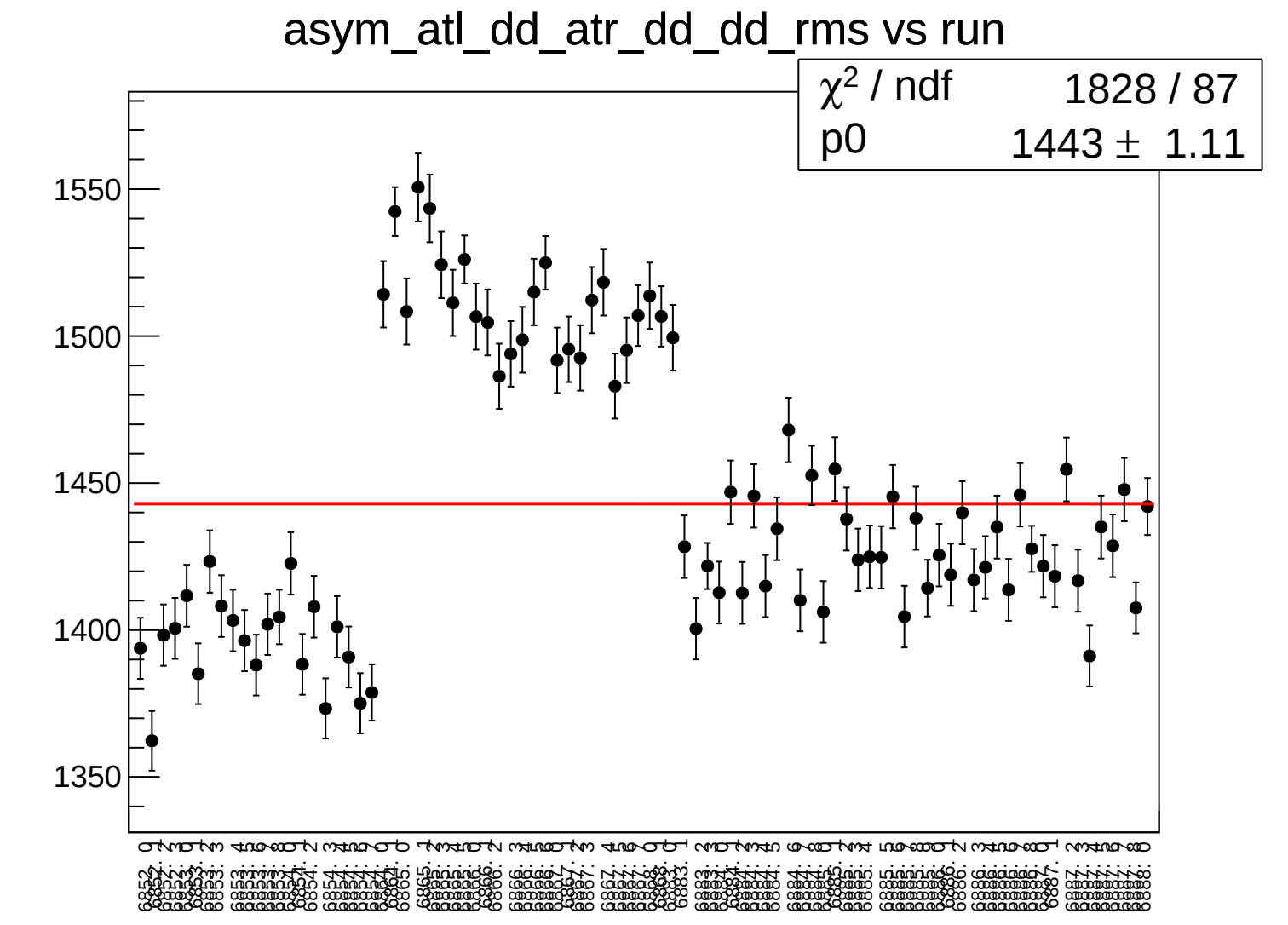

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.21 / 87
p0 2174 ± 834.9
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 325.9
Std Dev 0
3
2
1
0
−1
−2

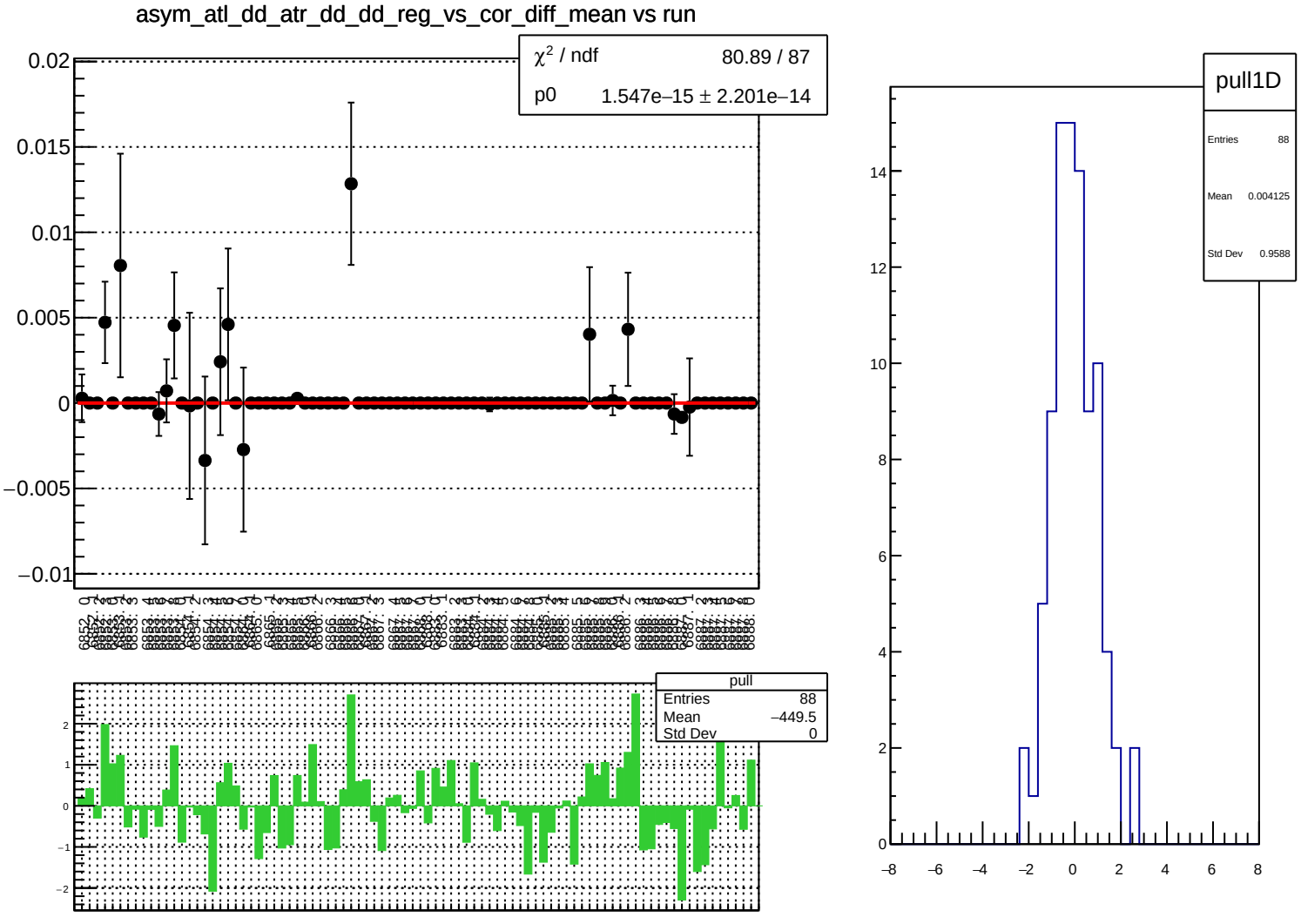

pull1D
Entries 88
Mean −0.01152
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

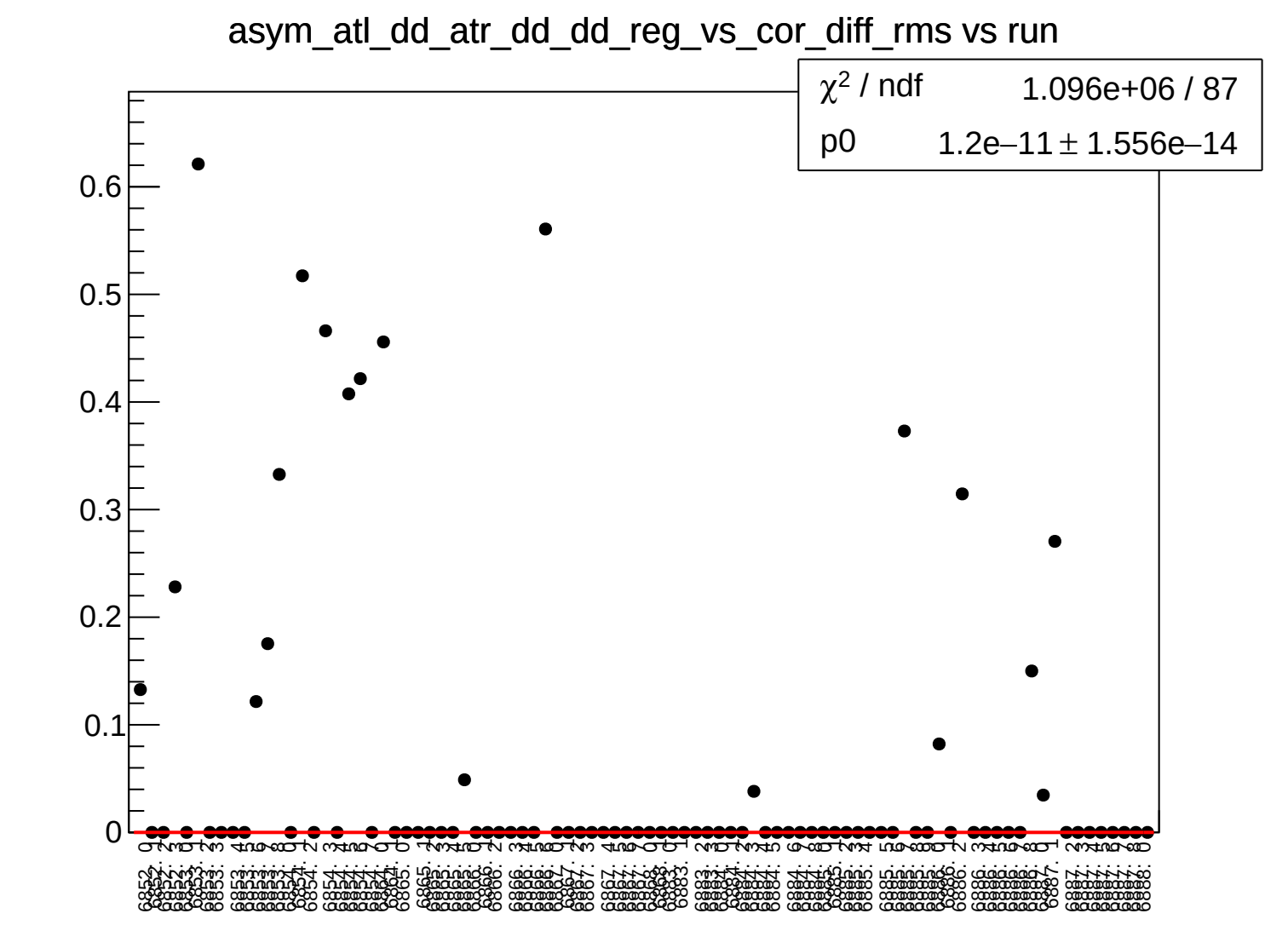

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.87e+04 / 87
p0 763.4 ± 0.5904
1000
950
900
850
800
750
700
650

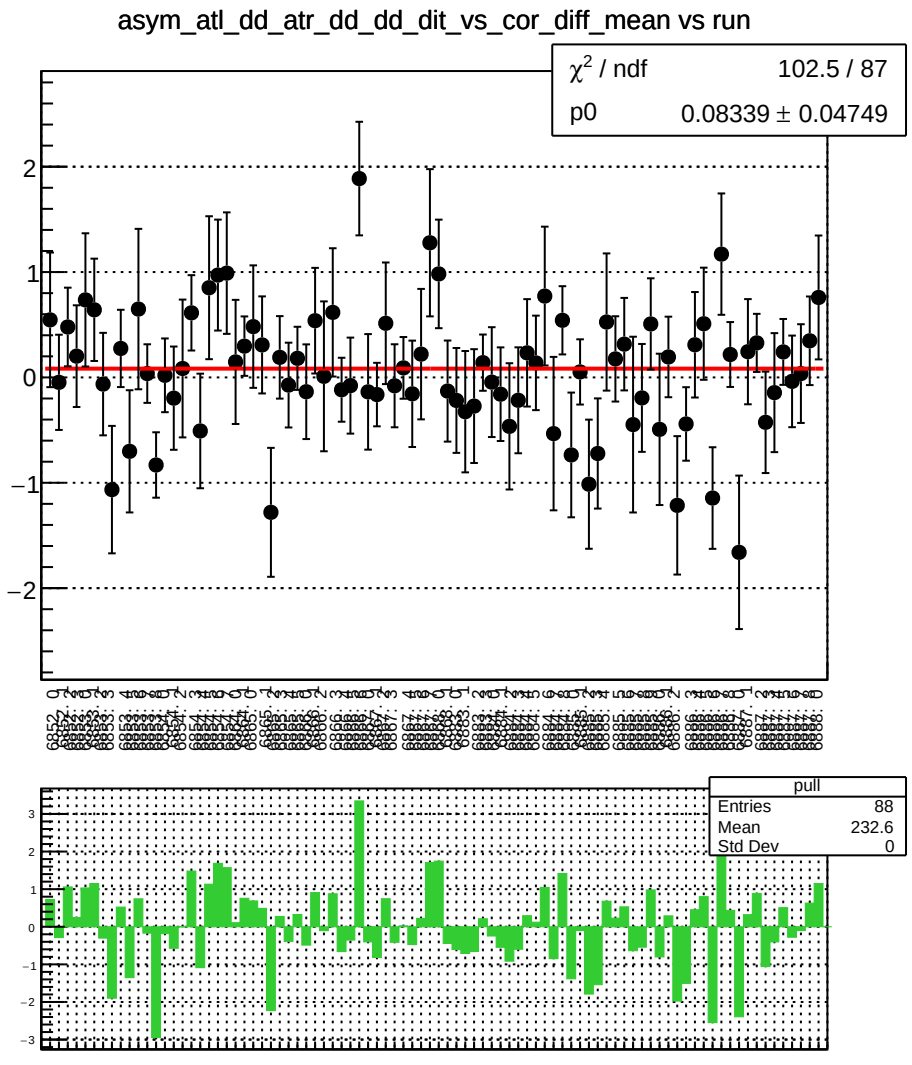

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 74.66 / 87
p0 −878.3 ± 1570
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −90.67
Std Dev 0
2
1
0
−1
−2

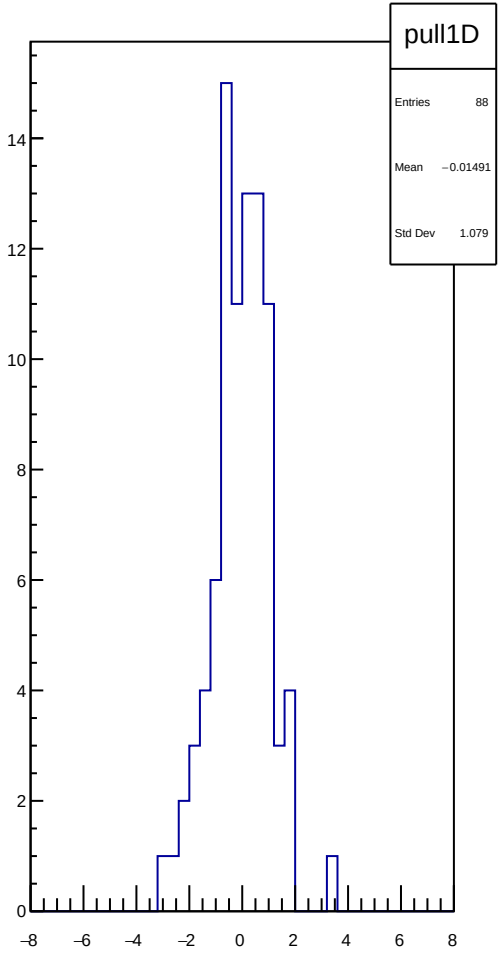

pull1D
Entries 88
Mean 0.01879
Std Dev 0.9209
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

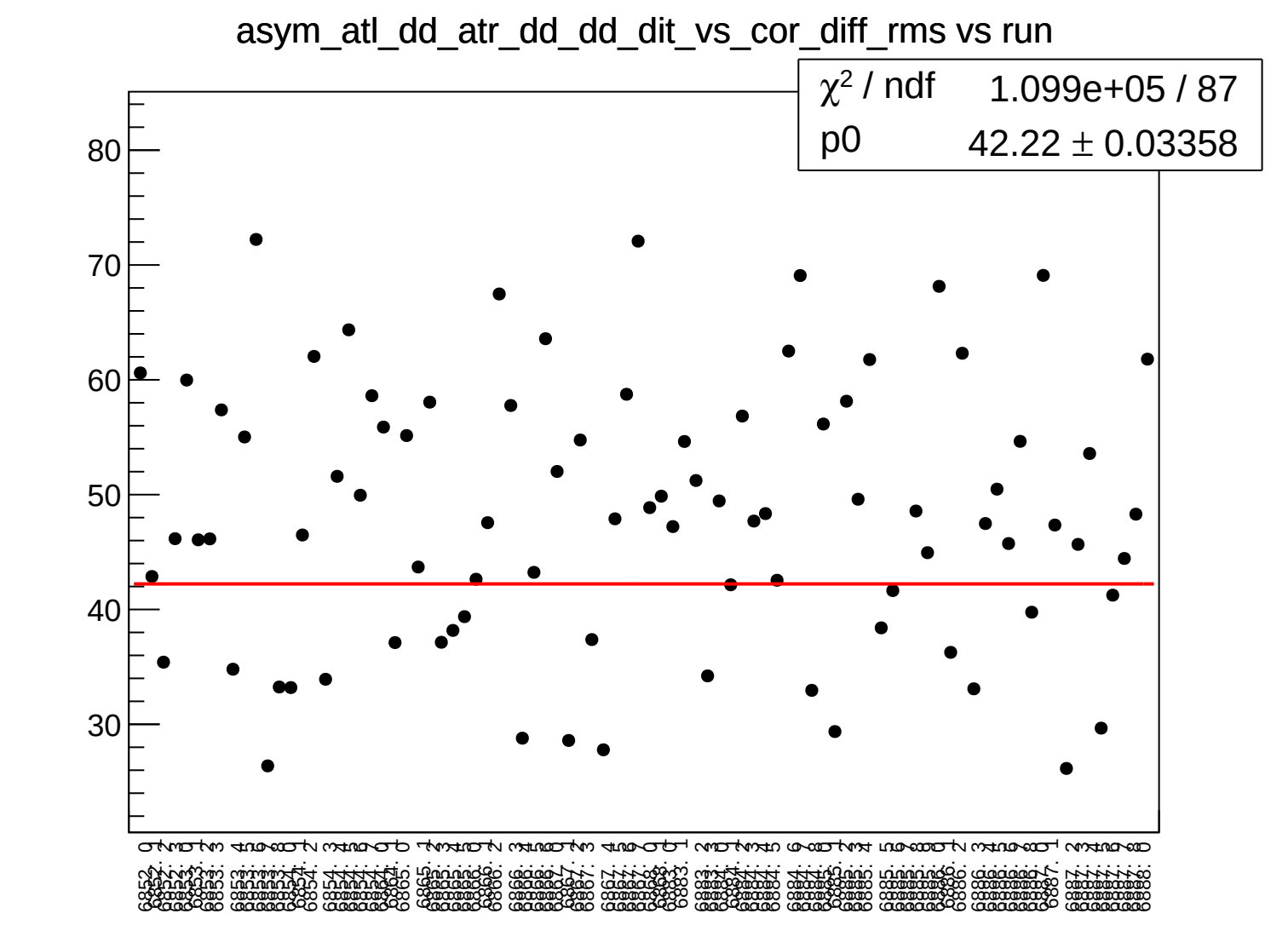

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1828 / 87
p0 1443 ± 1.11
1550
1500
1450
1400
1350

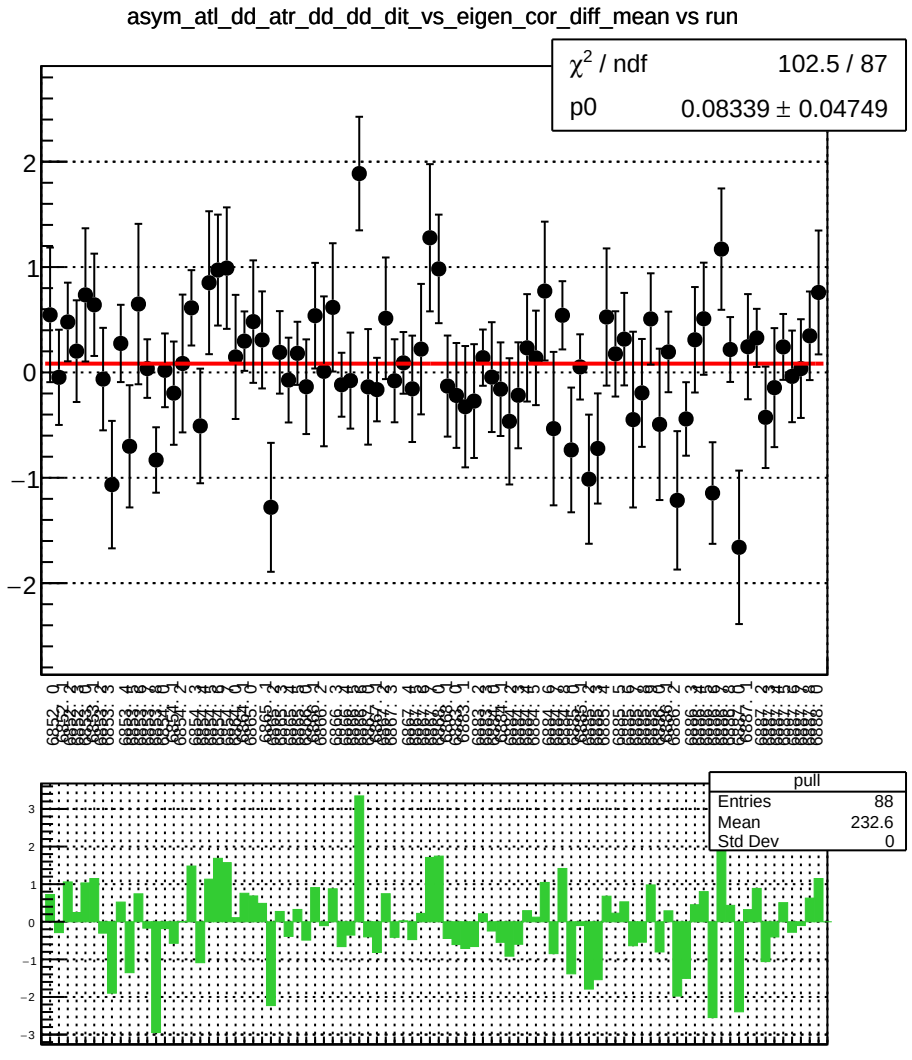

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.89 / 87
p0 1.547e−15 ± 2.201e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean −449.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.004125
Std Dev 0.9588
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

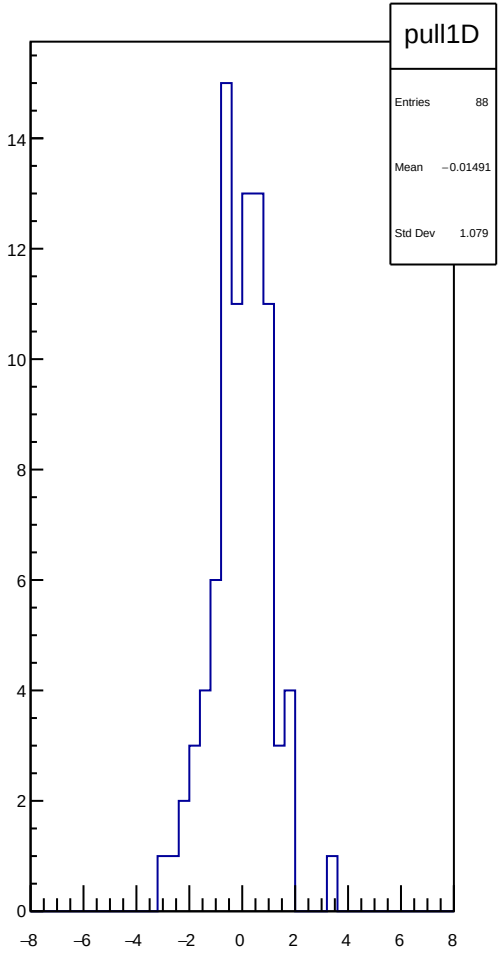

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.096e+06 / 87
p0 1.2e−11 ± 1.556e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

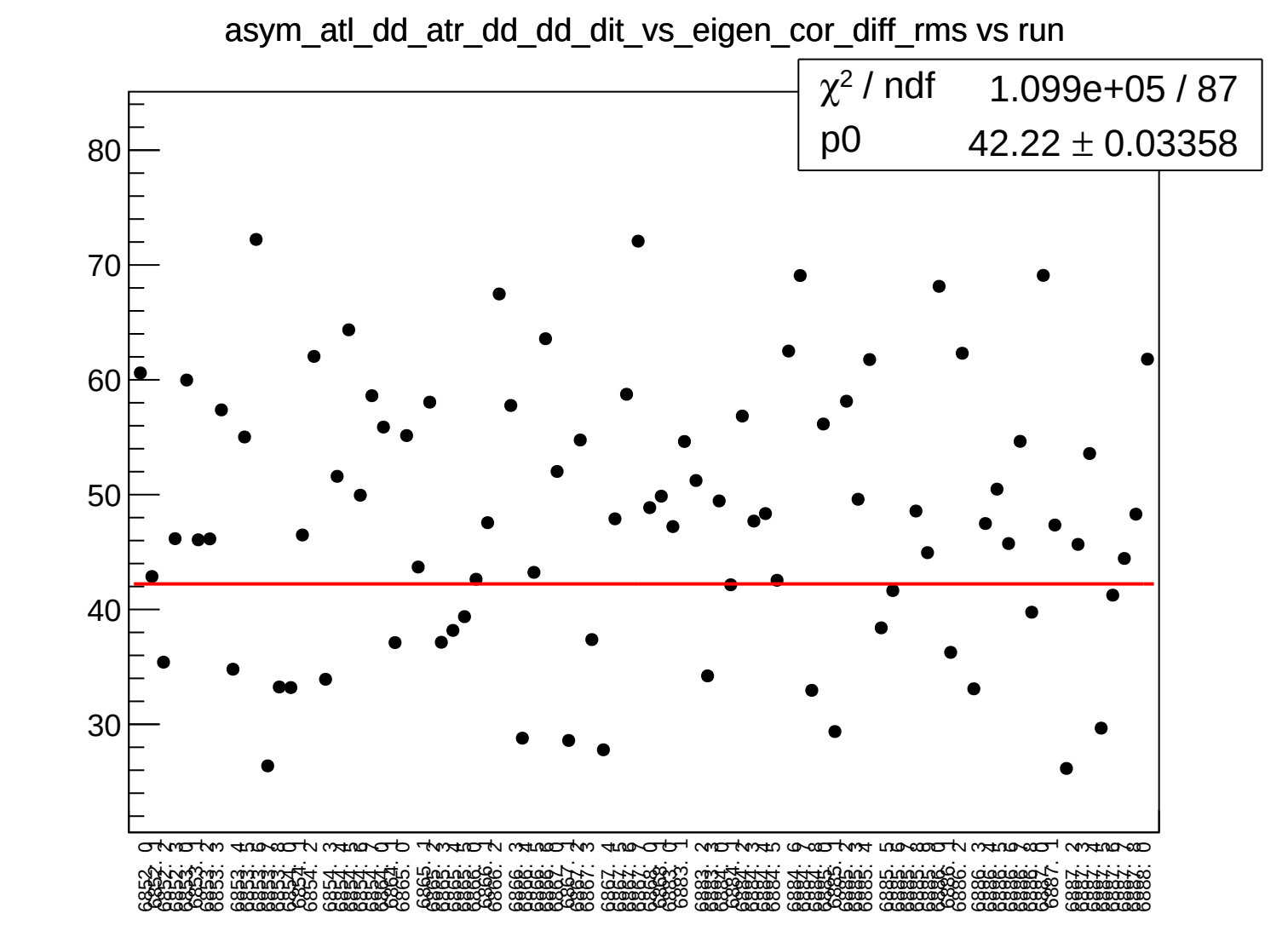

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 87
p0 0.08339 ± 0.04749
pull
Entries 88
Mean 232.6
Std Dev 0

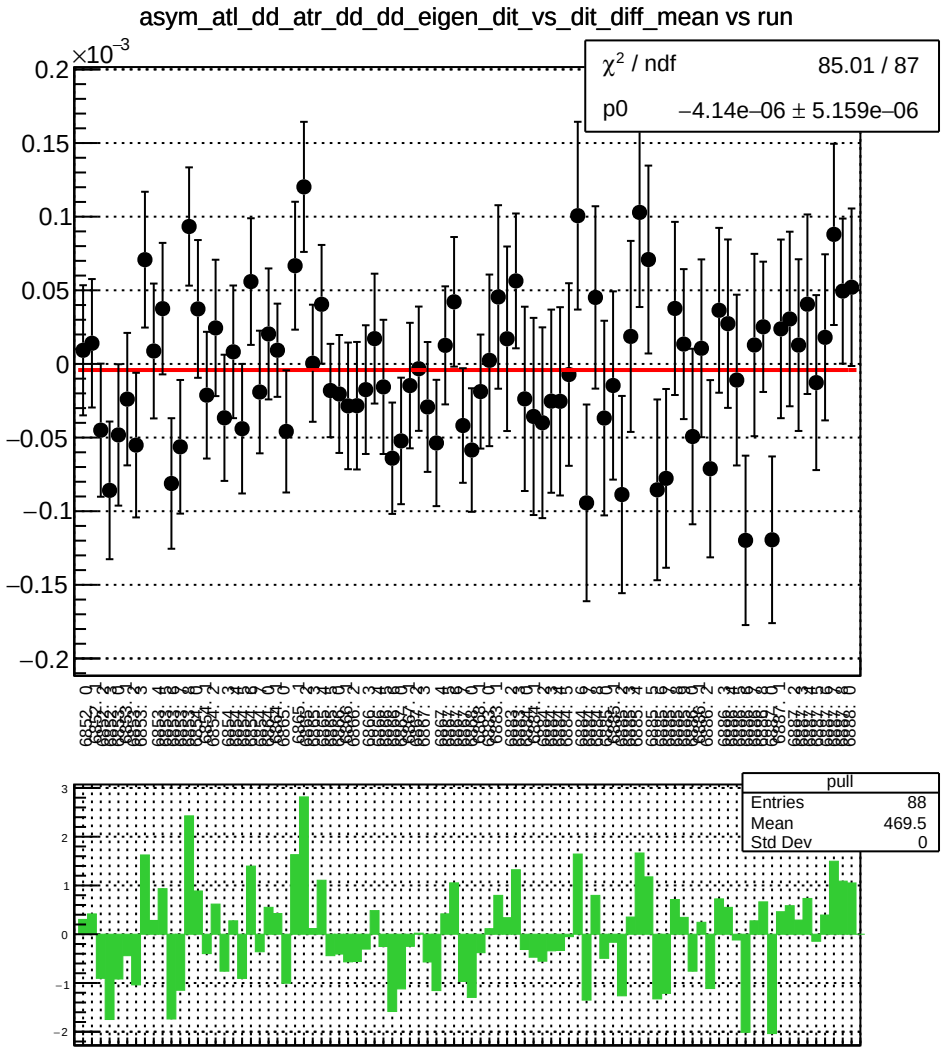

pull1D
Entries 88
Mean −0.01491
Std Dev 1.079

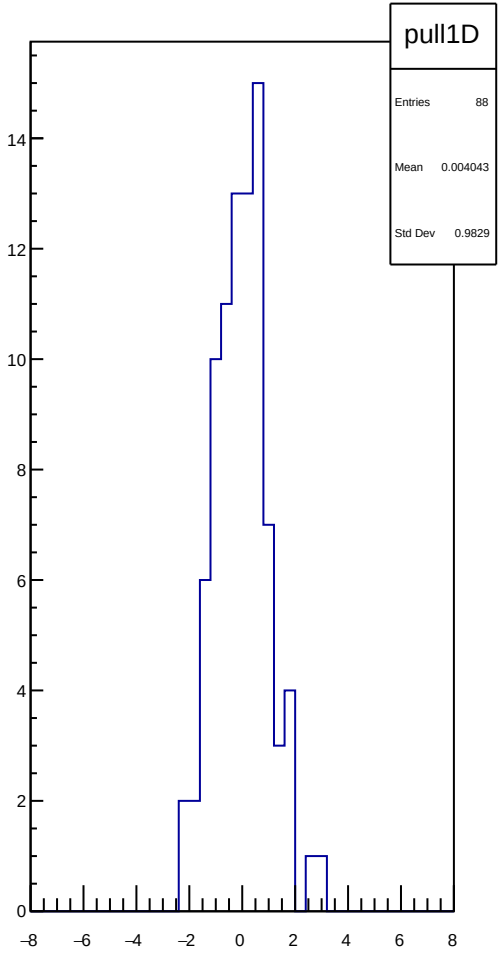

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.099e+05 / 87
p0 42.22 ± 0.03358
80
70
60
50
40
30

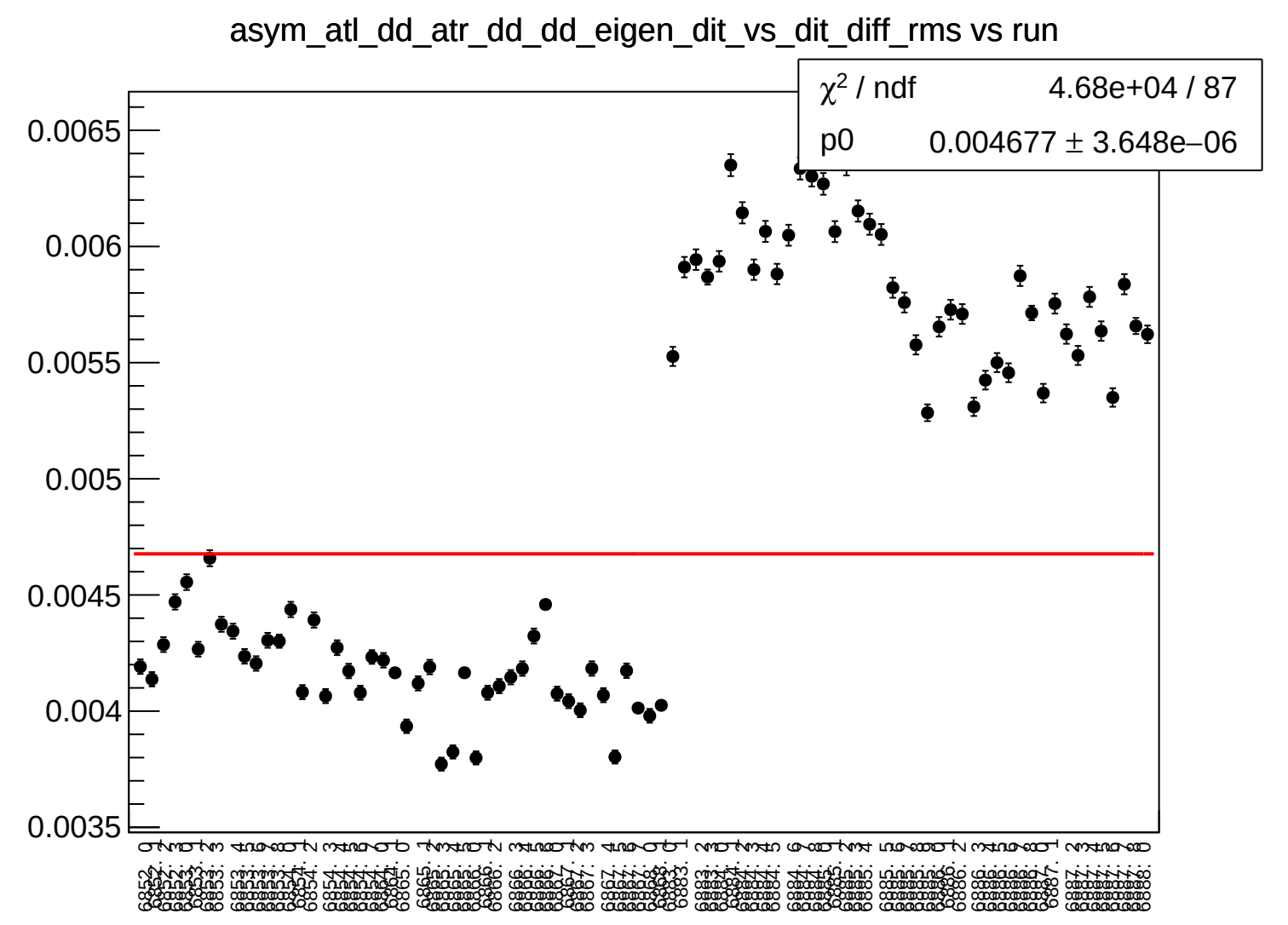

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.5 / 87
p0 0.08339 ± 0.04749
pull
Entries 88
Mean 232.6
Std Dev 0

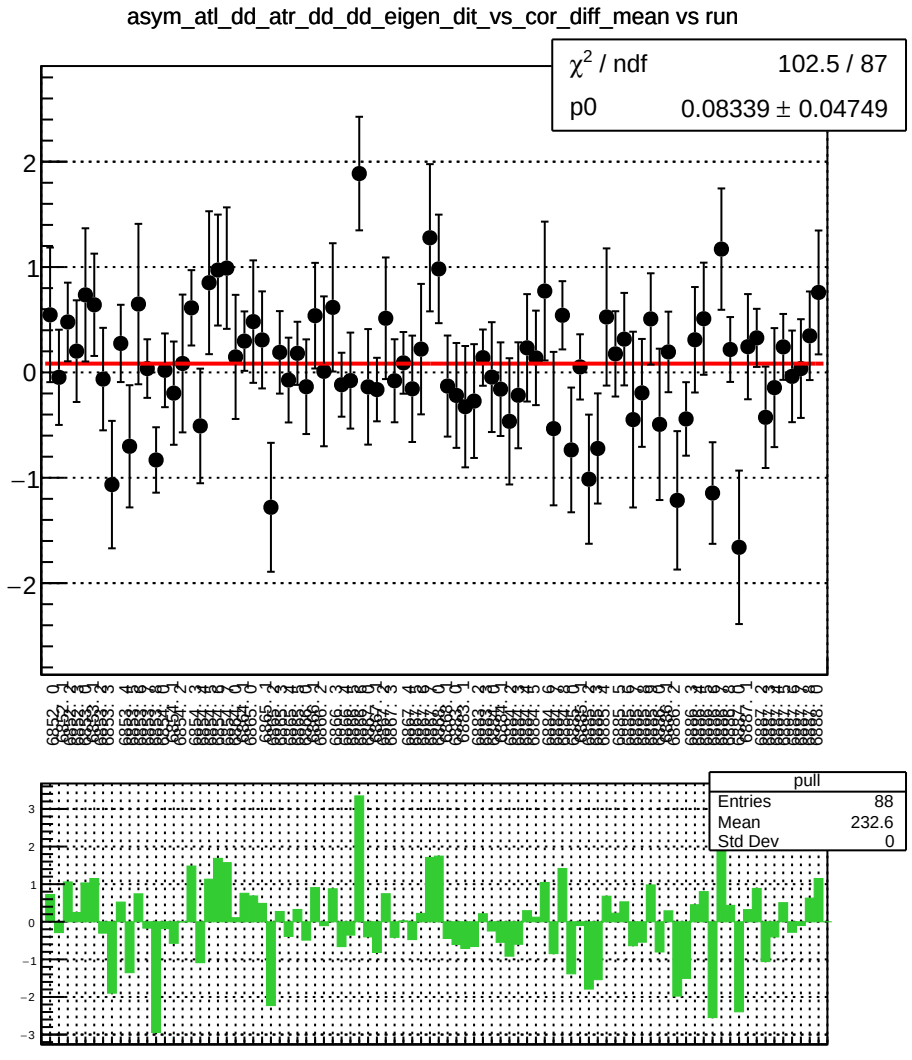

pull1D
Entries 88
Mean −0.01491
Std Dev 1.079

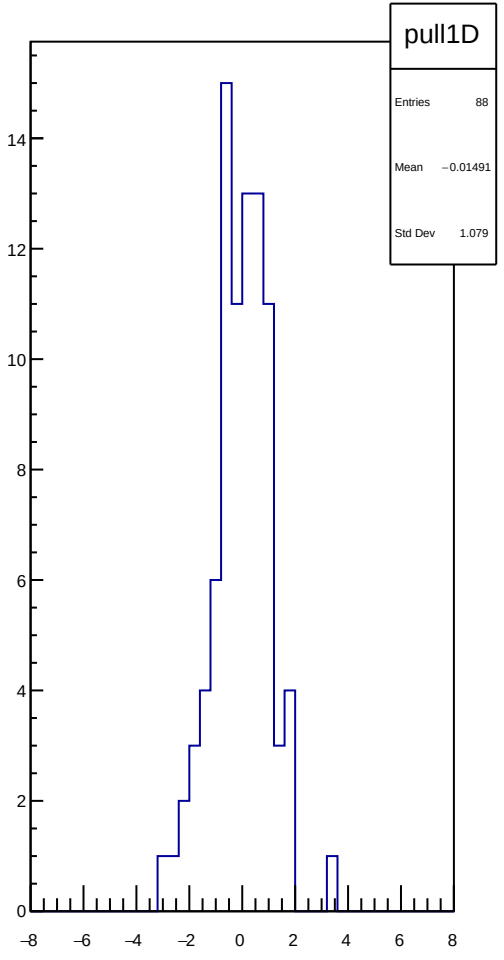

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.099e+05 / 87
p0 42.22 ± 0.03358
80
70
60
50
40
30

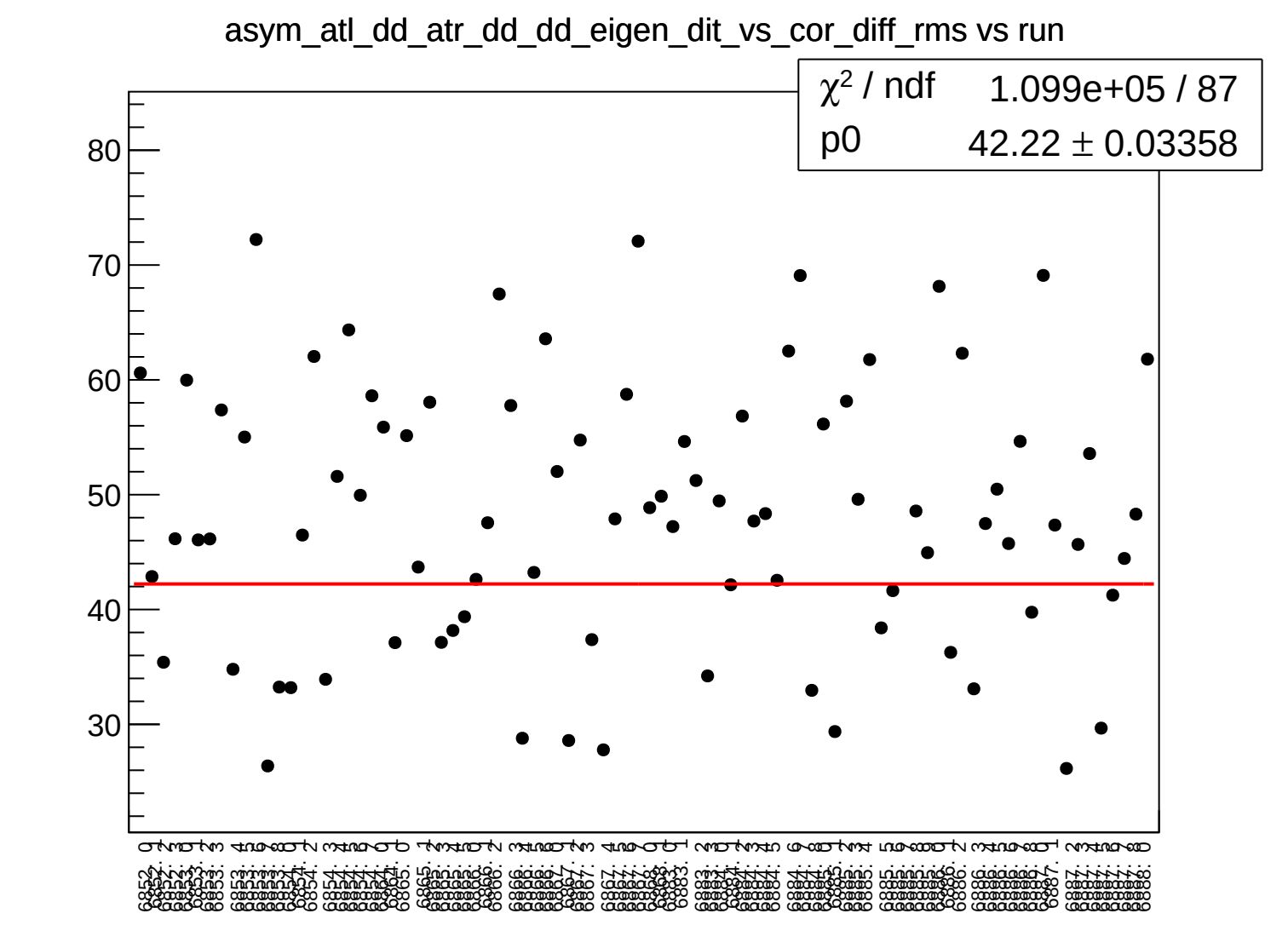

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.01 / 87
p0 −4.14e−06 ± 5.159e−06
pull
Entries 88
Mean 469.5
Std Dev 0

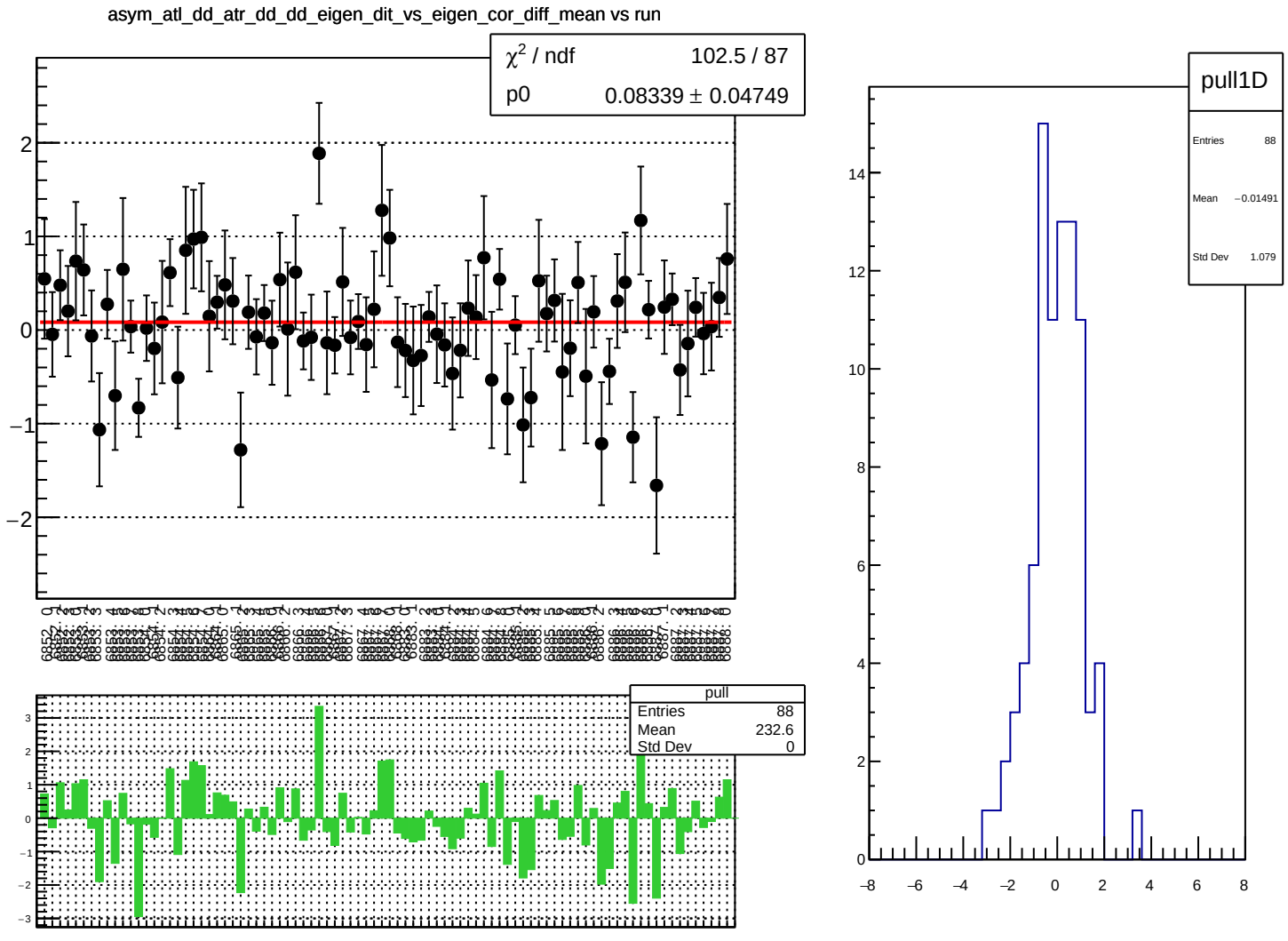

pull1D
Entries 88
Mean 0.004043
Std Dev 0.9829

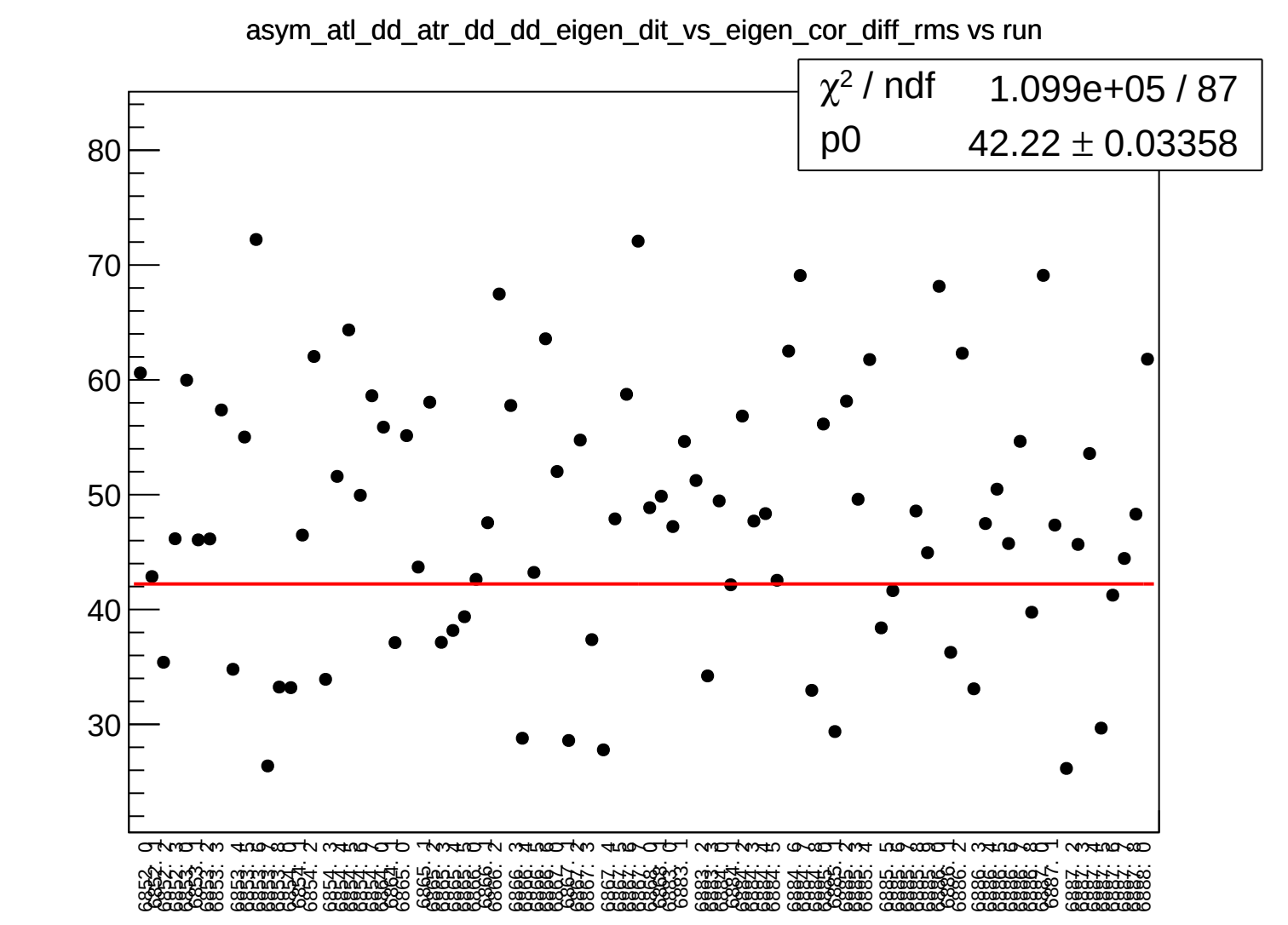

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.68e+04 / 87
p0 0.004677 ± 3.648e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

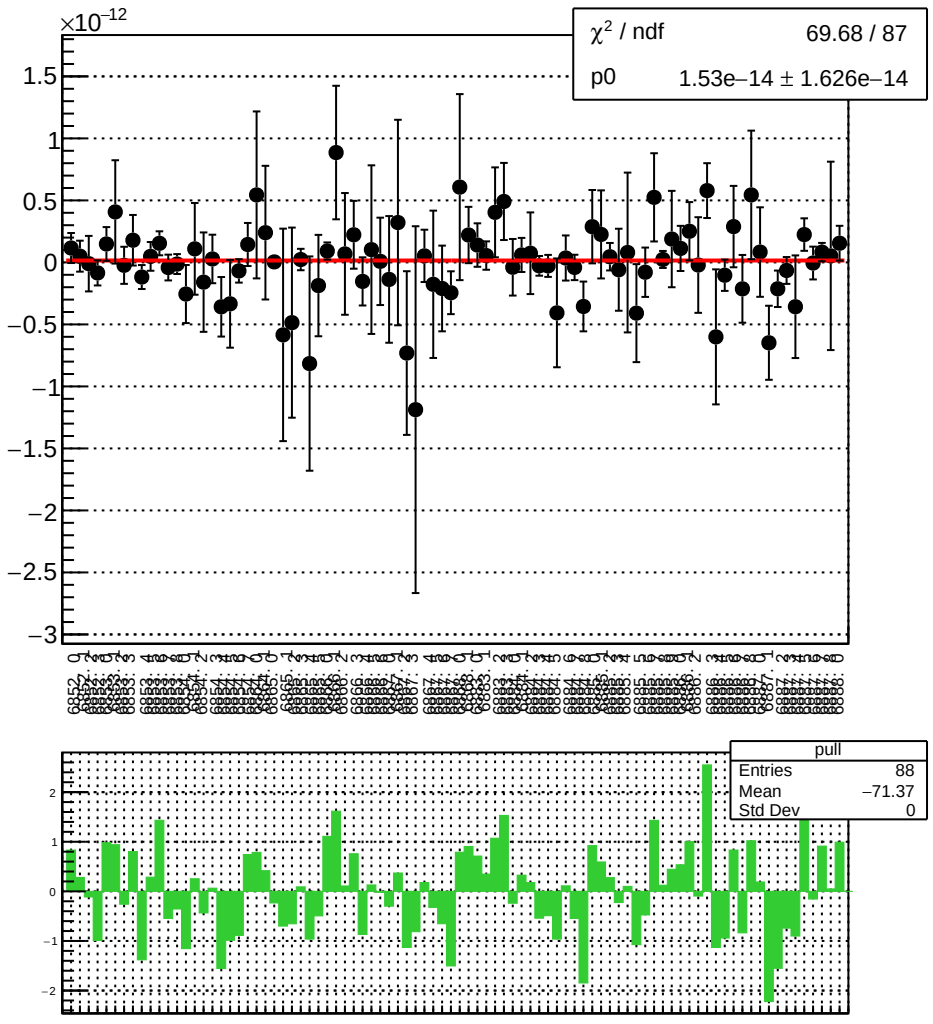

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 87
p0 0.08339 ± 0.04749
pull
Entries 88
Mean 232.6
Std Dev 0

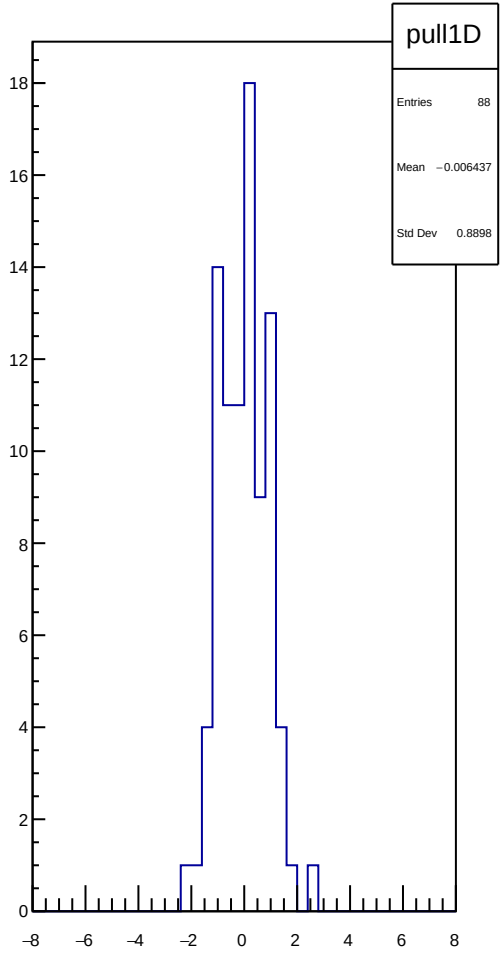

pull1D
Entries 88
Mean −0.01491
Std Dev 1.079

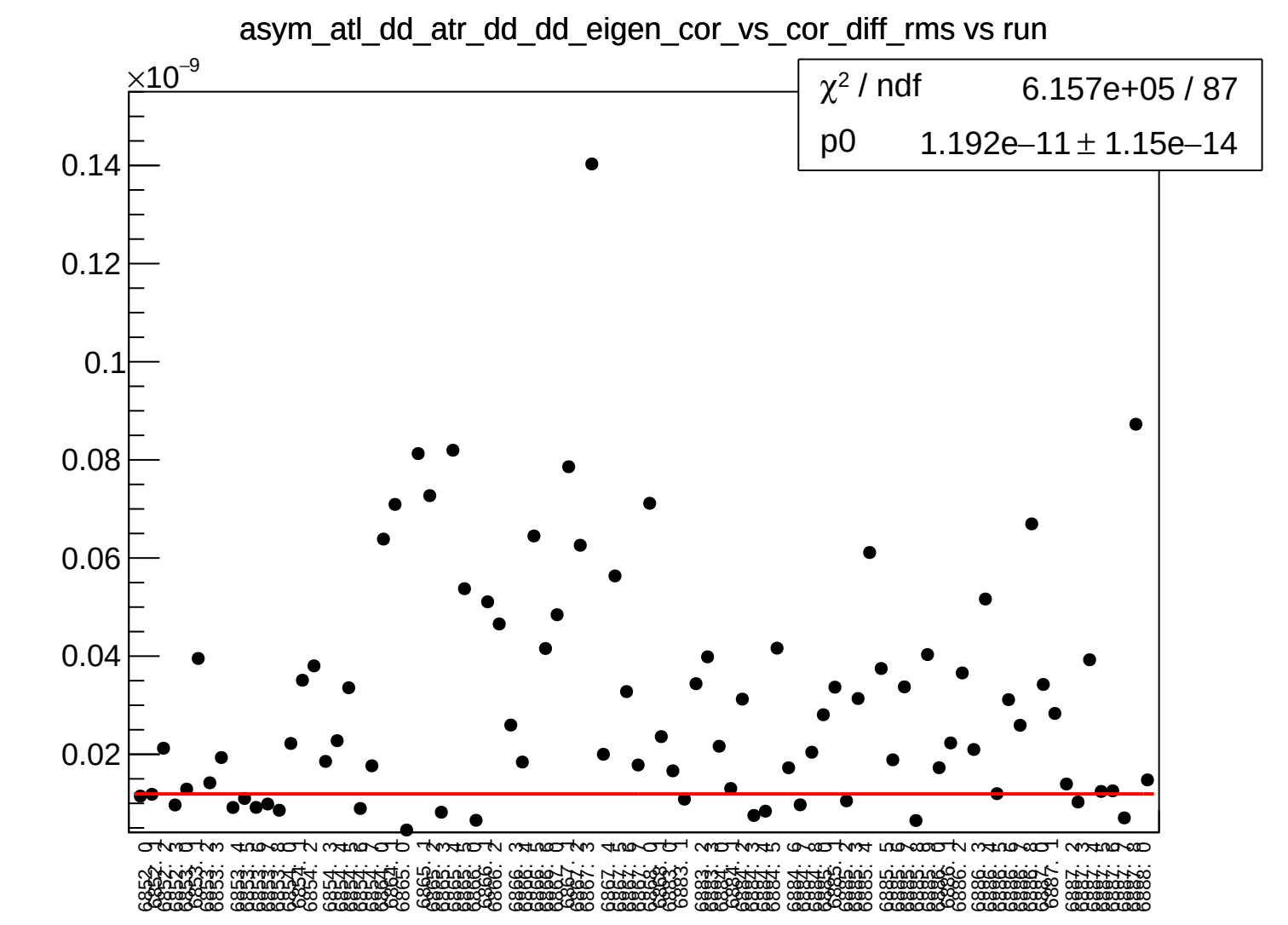

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.099e+05 / 87
p0 42.22 ± 0.03358
80
70
60
50
40
30

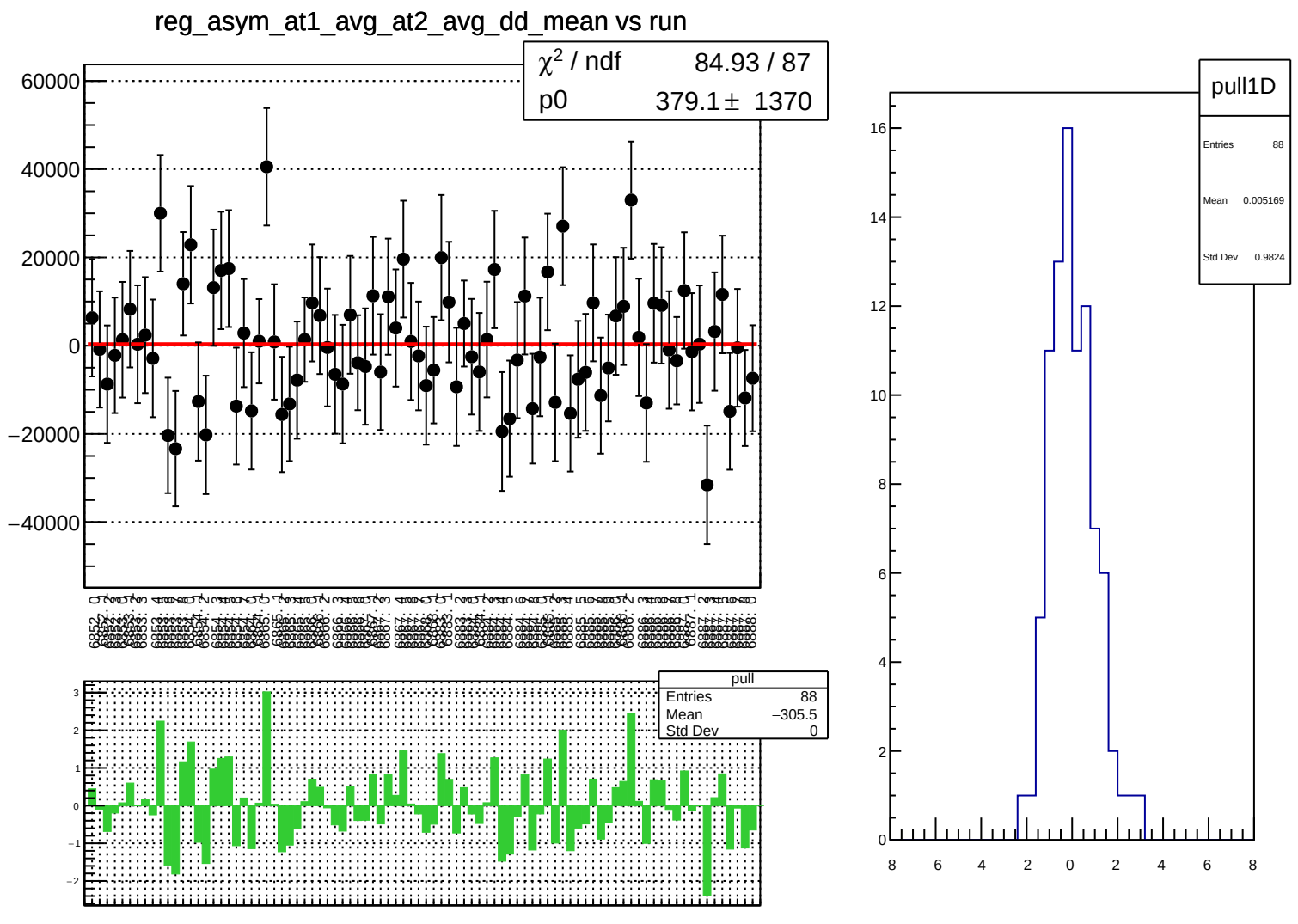

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.5 / 87
p0 0.08339 ± 0.04749
pull
Entries 88
Mean 232.6
Std Dev 0
pull1D
Entries 88
Mean −0.01491
Std Dev 1.079

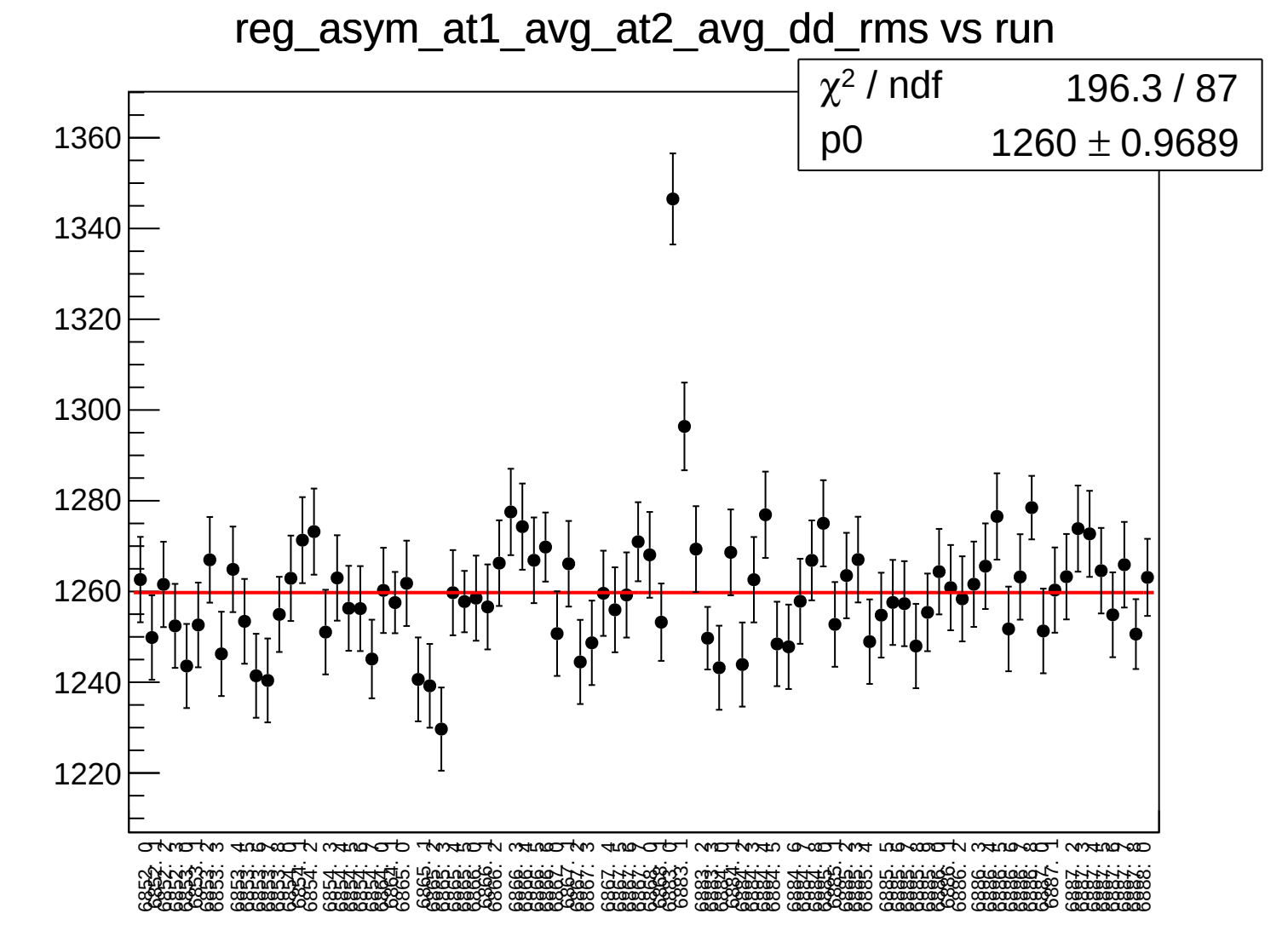

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.099e+05 / 87
p0 42.22 ± 0.03358
80
70
60
50
40
30

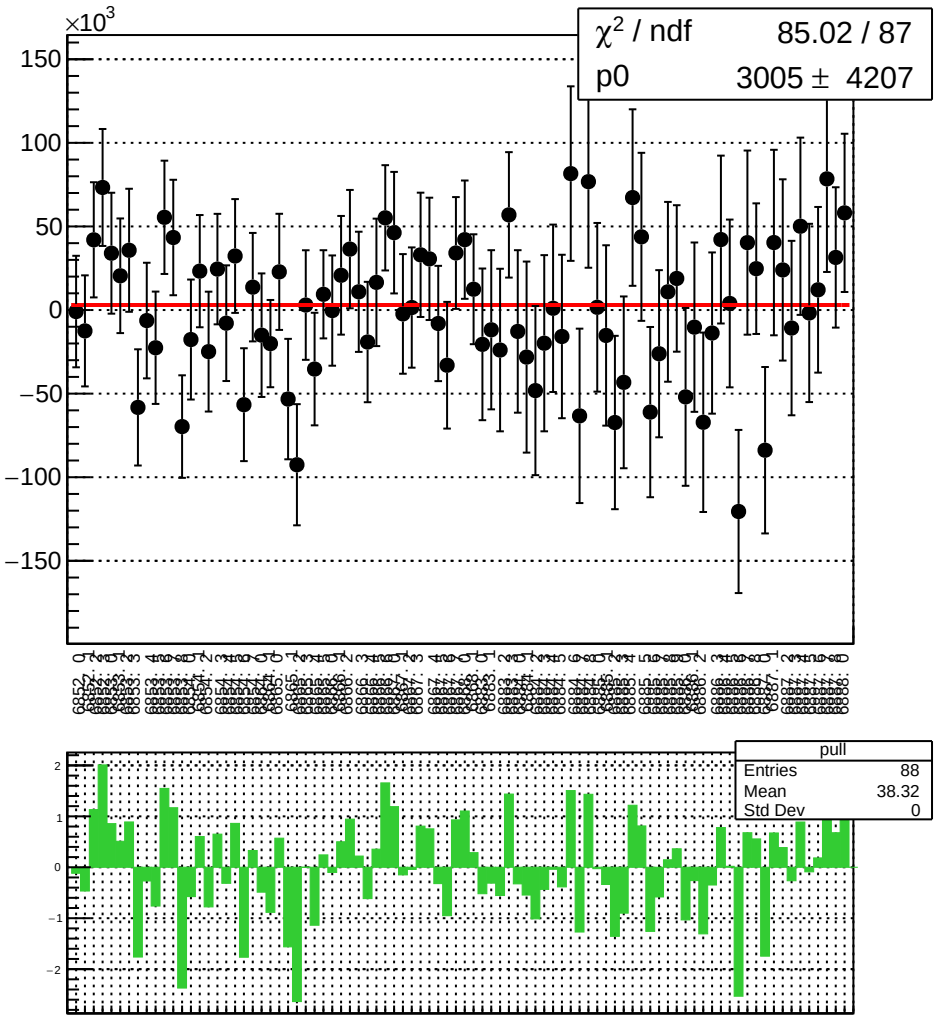

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.68 / 87
p0 1.53e−14 ± 1.626e−14
pull
Entries 88
Mean −71.37
Std Dev 0

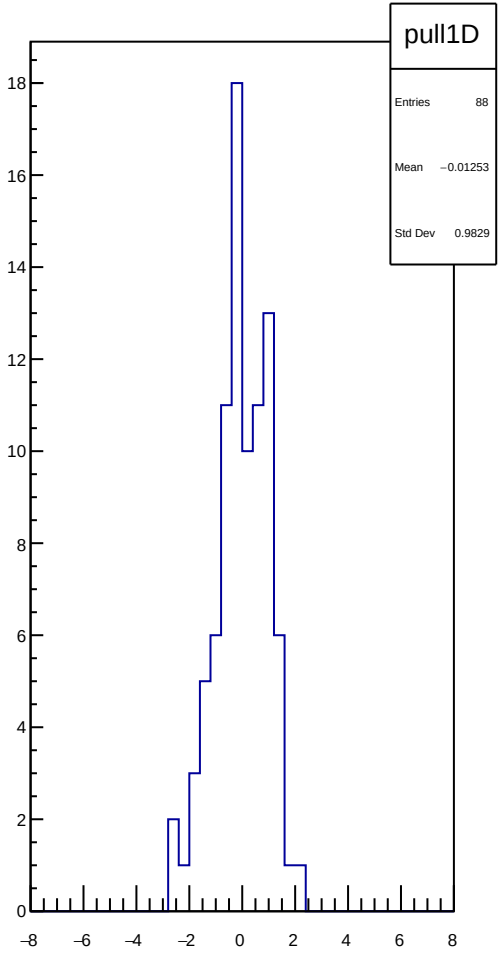

pull1D
Entries 88
Mean −0.006437
Std Dev 0.8898

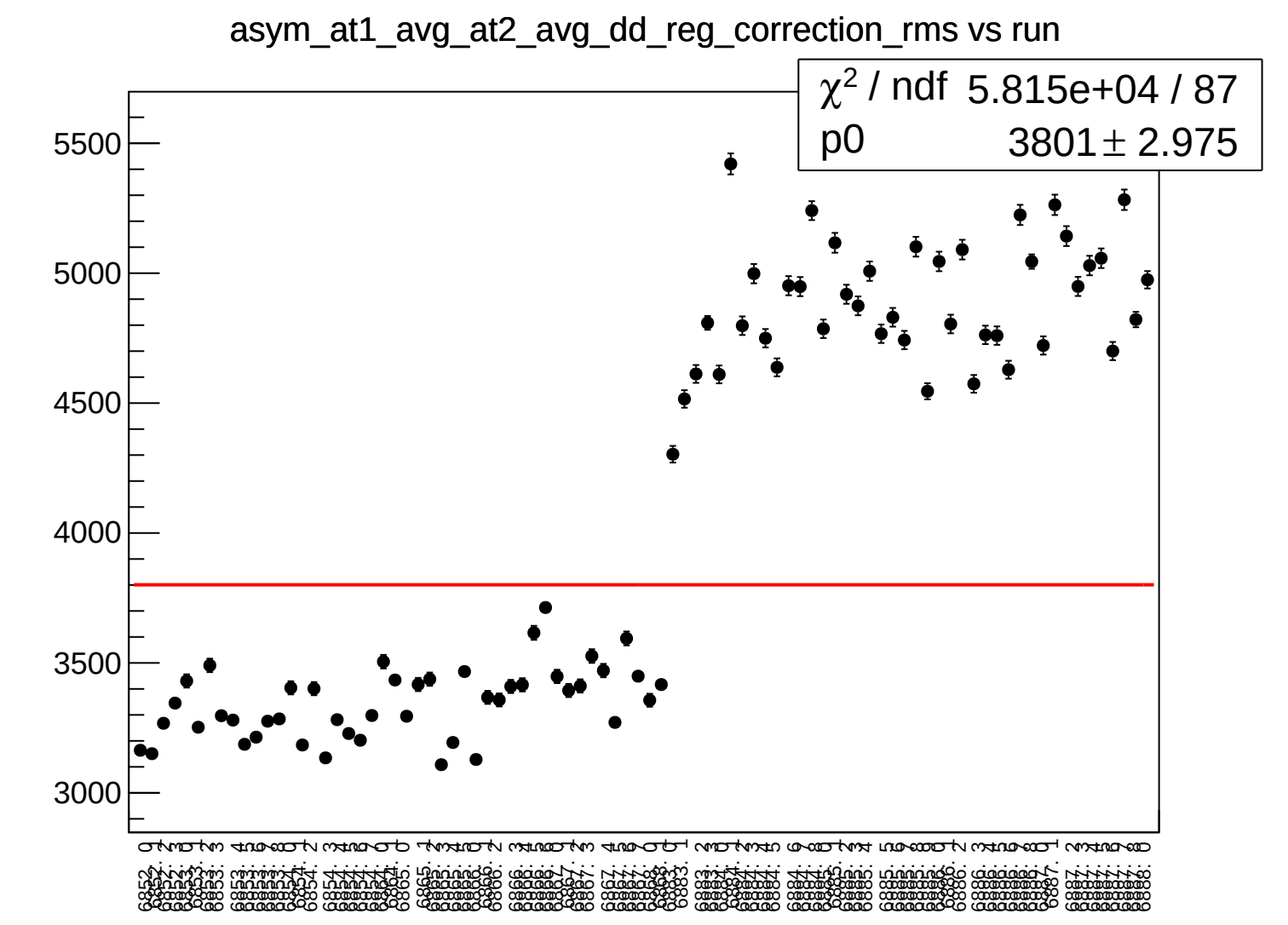

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.157e+05 / 87
p0 1.192e−11 ± 1.15e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

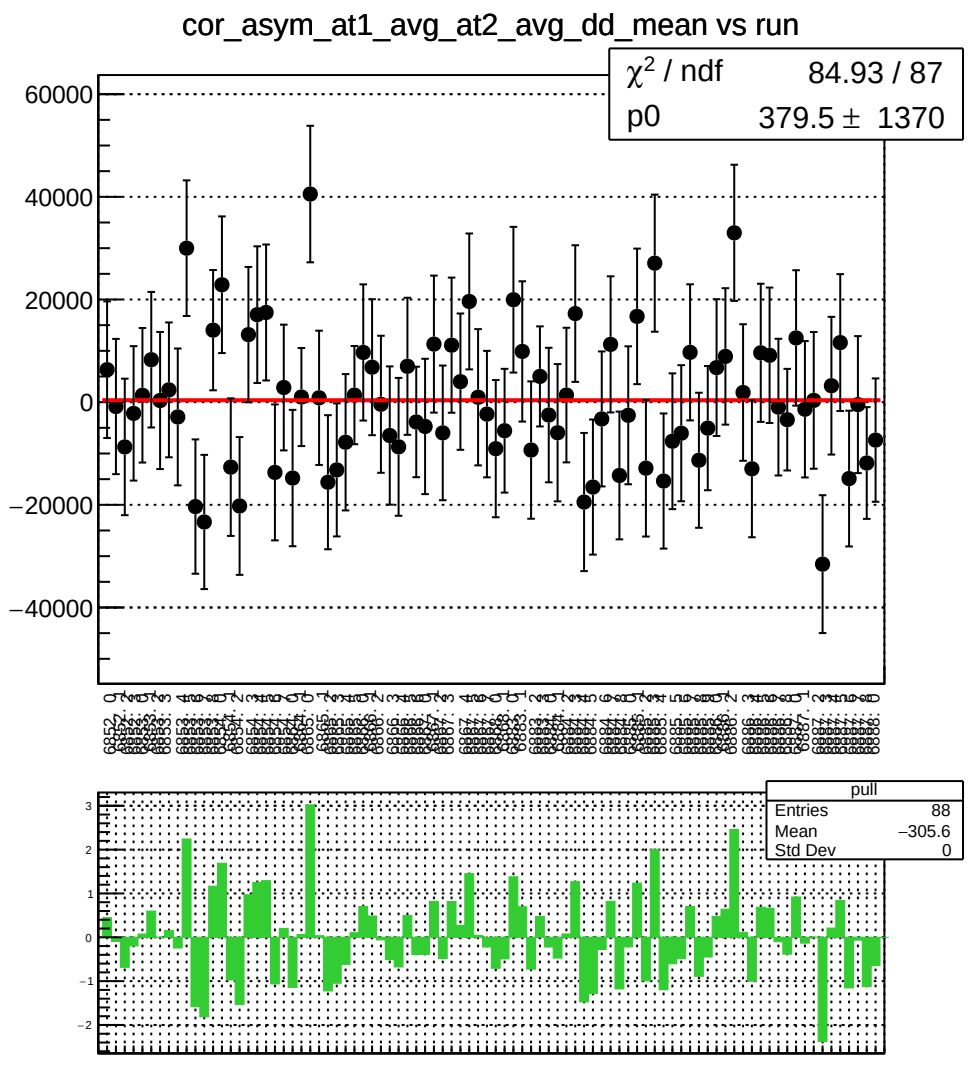

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 84.93 / 87
p0 379.1 ± 1370
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −305.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.005169
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

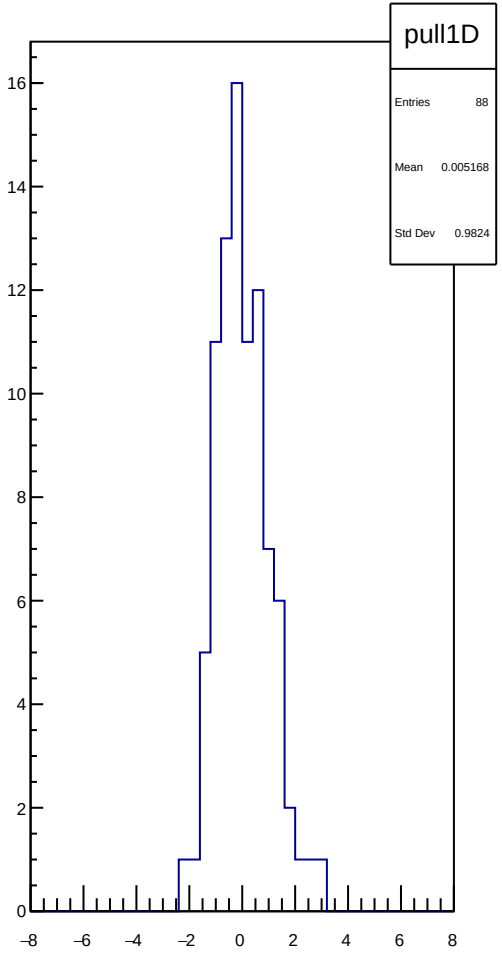

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 196.3 / 87
p0 1260 ± 0.9689
1360
1340
1320
1300
1280
1260
1240
1220

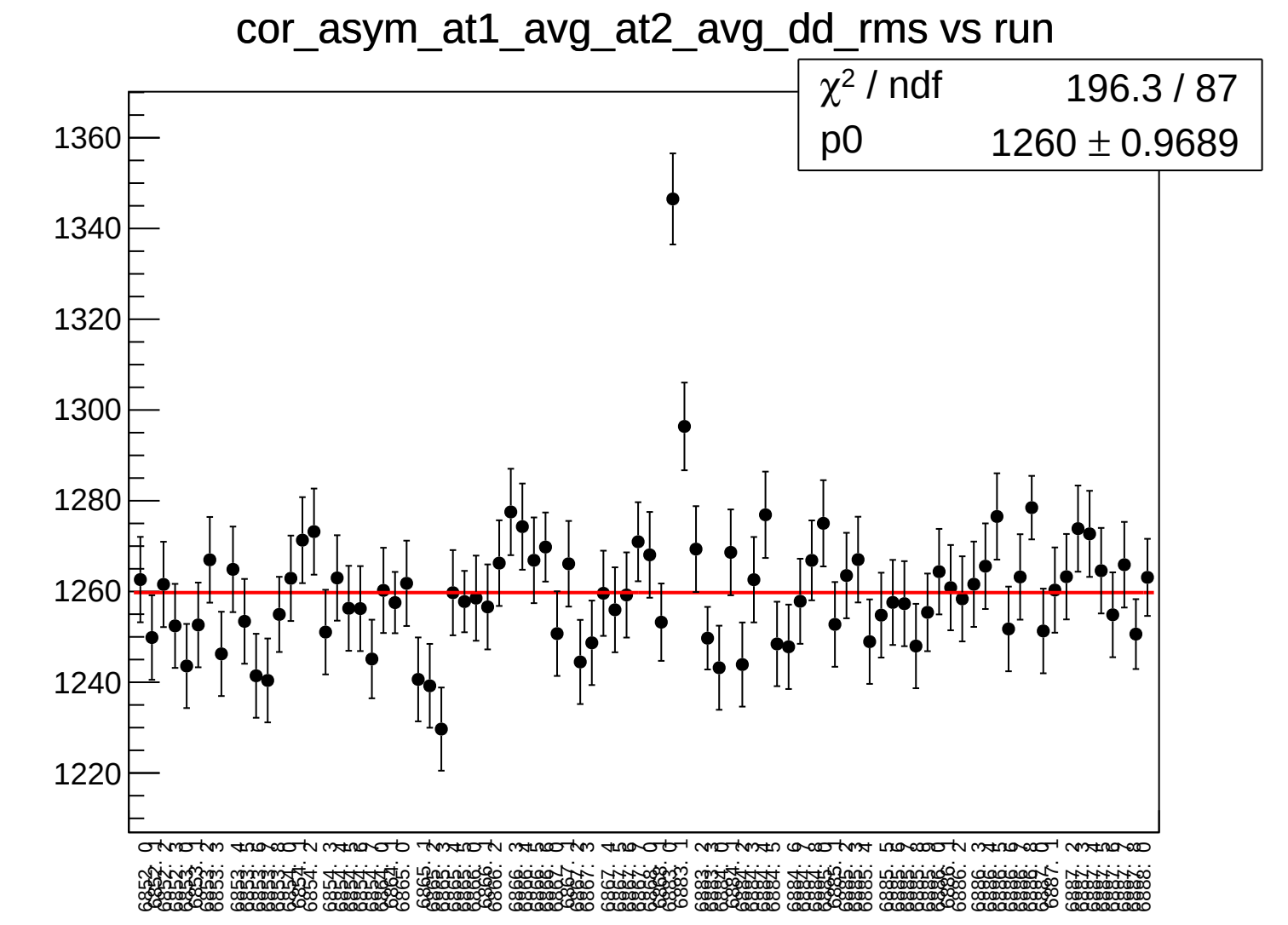

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.02 / 87
p0 3005 ± 4207
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 38.32
Std Dev 0
2
1
0
−1
−2

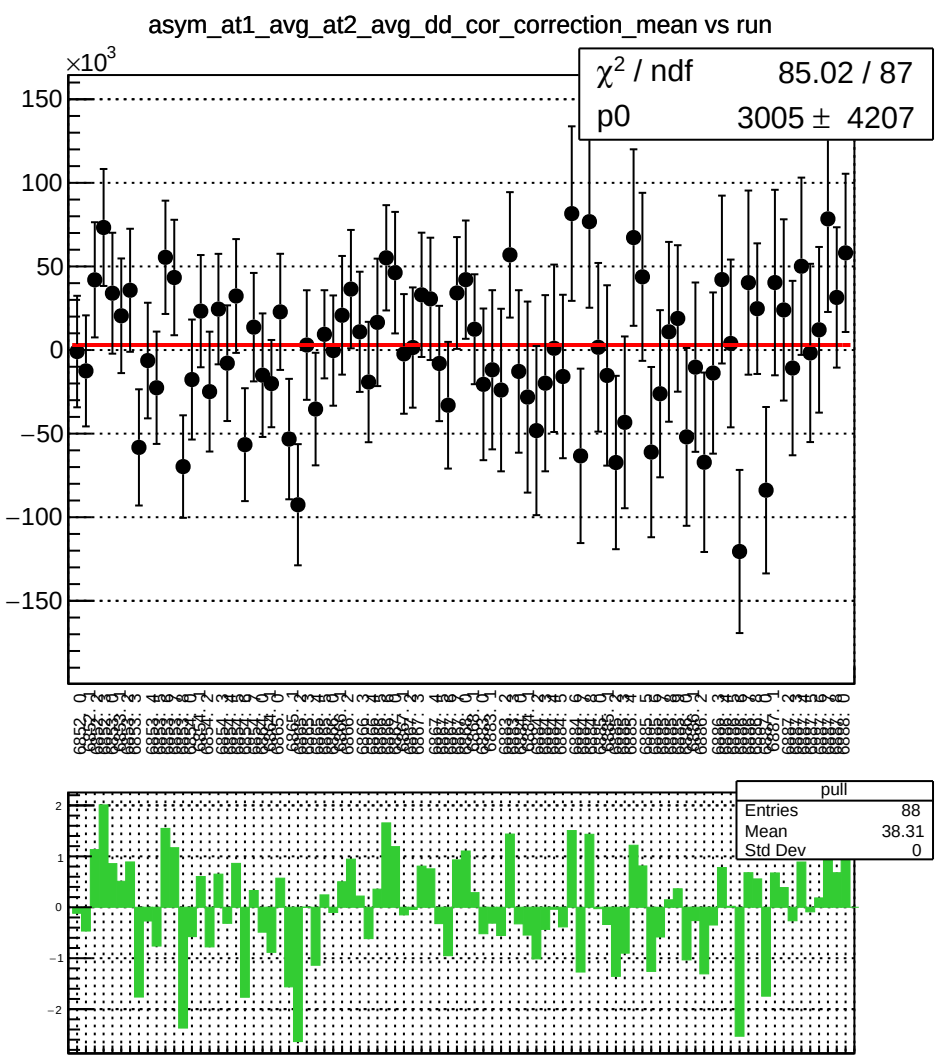

pull1D
Entries 88
Mean −0.01253
Std Dev 0.9829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

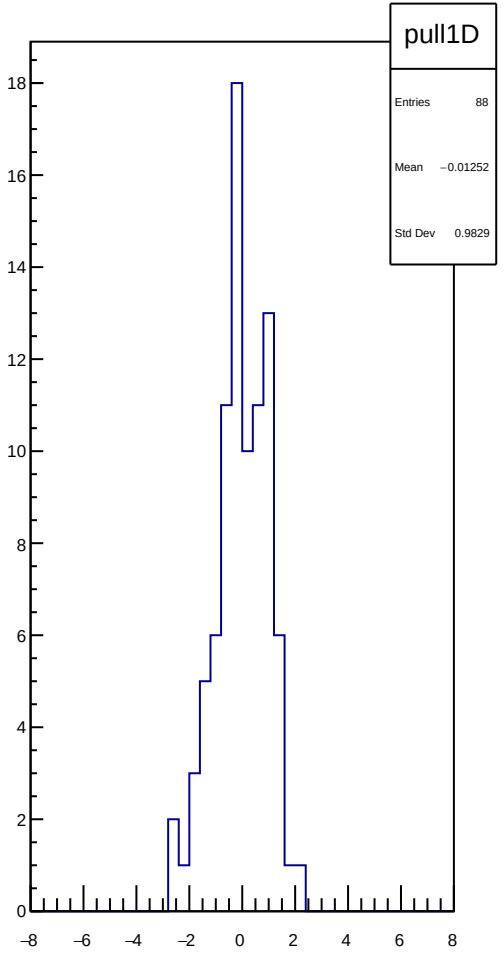

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 5.815e+04 / 87
p0 3801 ± 2.975
5500
5000
4500
4000
3500
3000

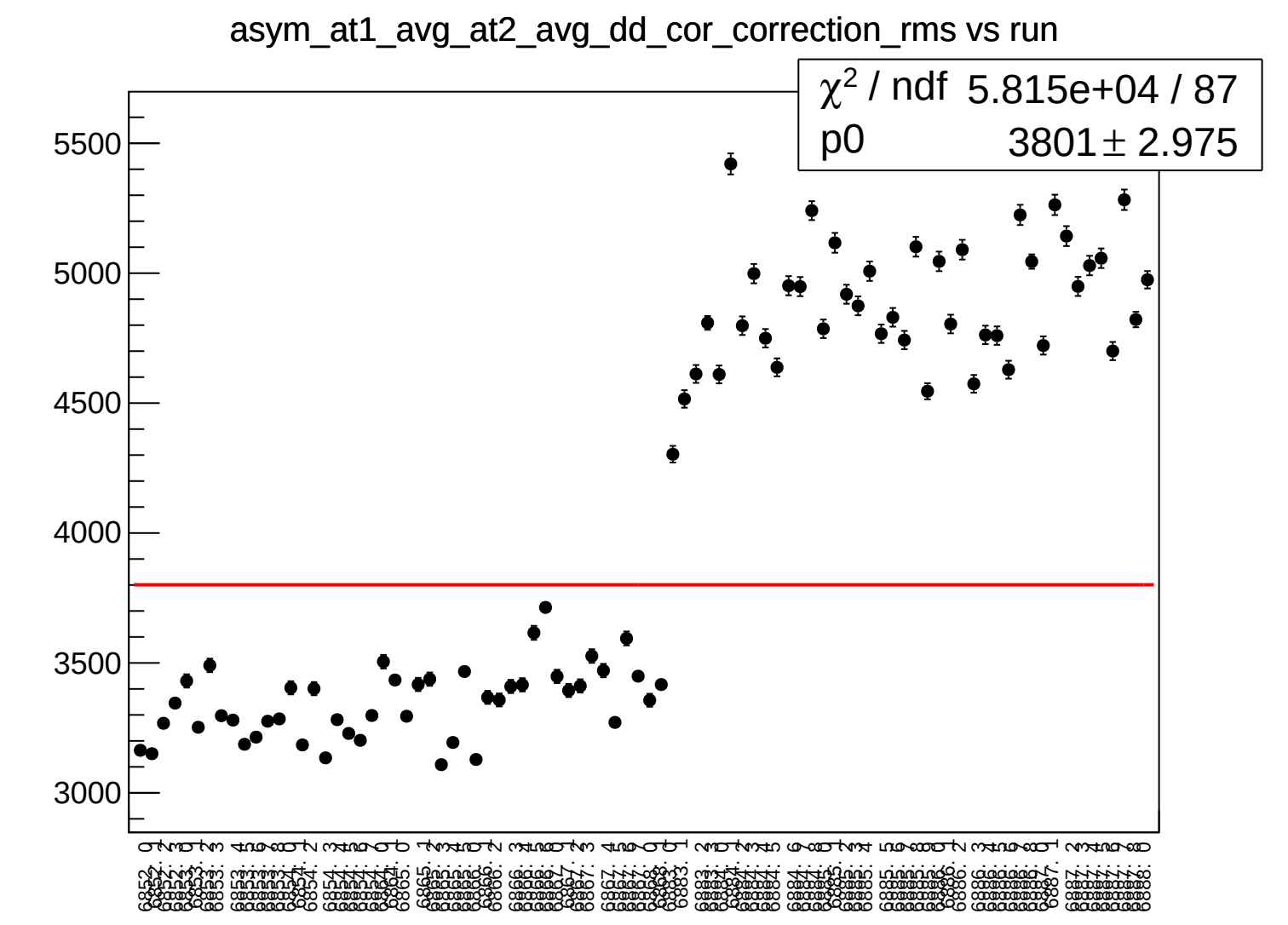

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 84.93 / 87
p0 379.5 ± 1370
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −305.6
Std Dev 0
3
2
1
0
−1
−2

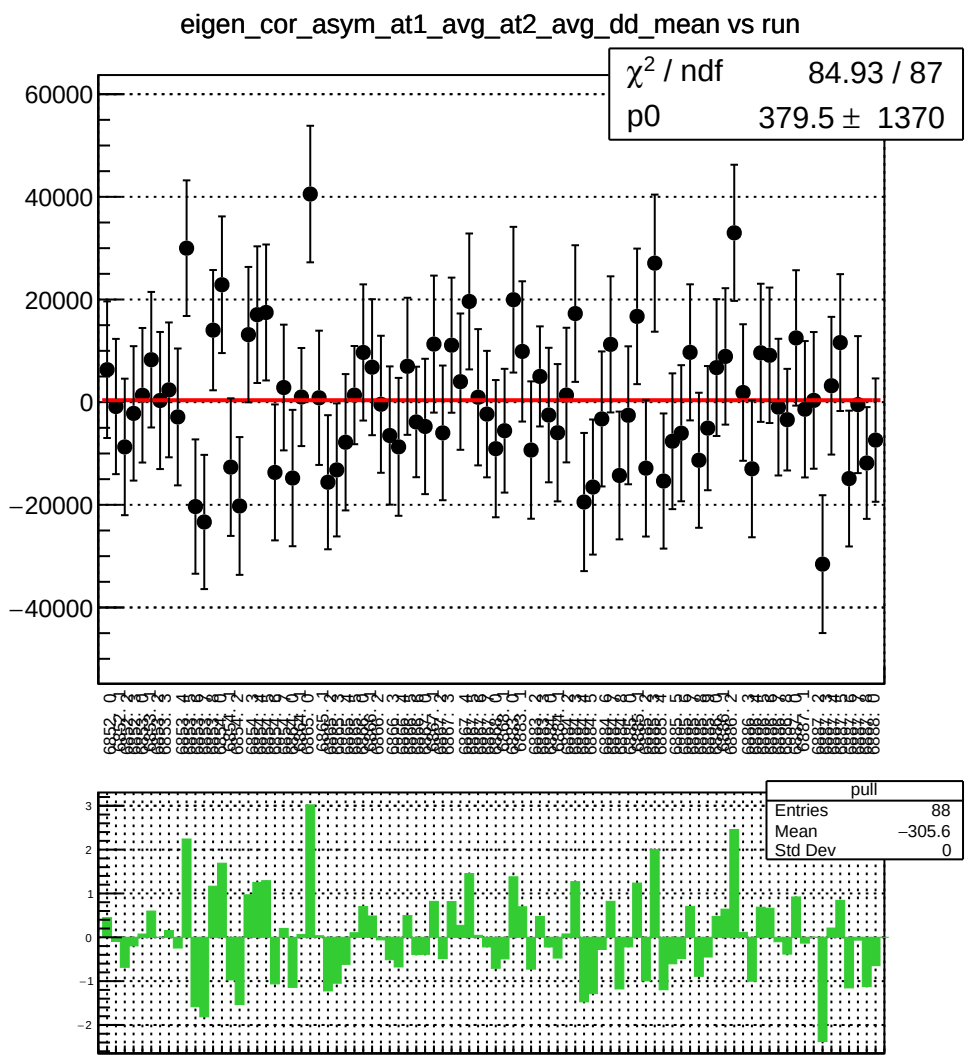

pull1D
Entries 88
Mean 0.005168
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

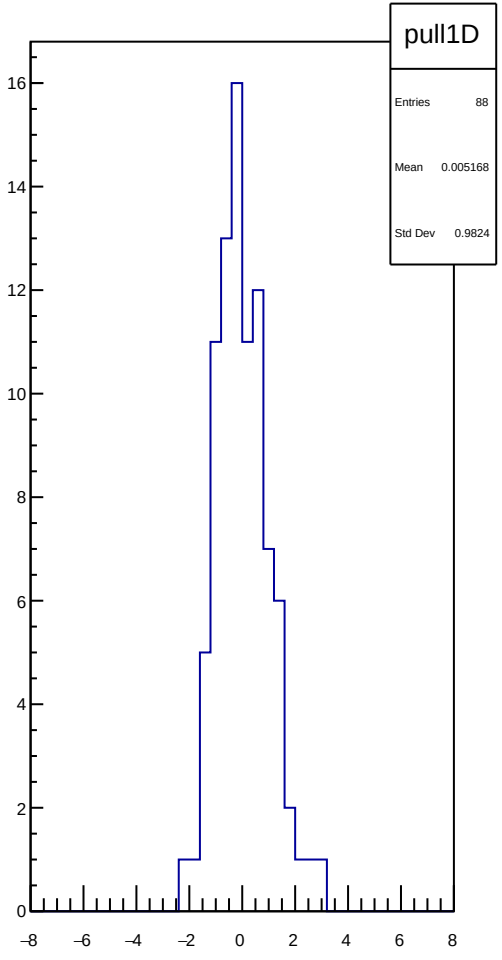

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 196.3 / 87
p0 1260 ± 0.9689
1360
1340
1320
1300
1280
1260
1240
1220

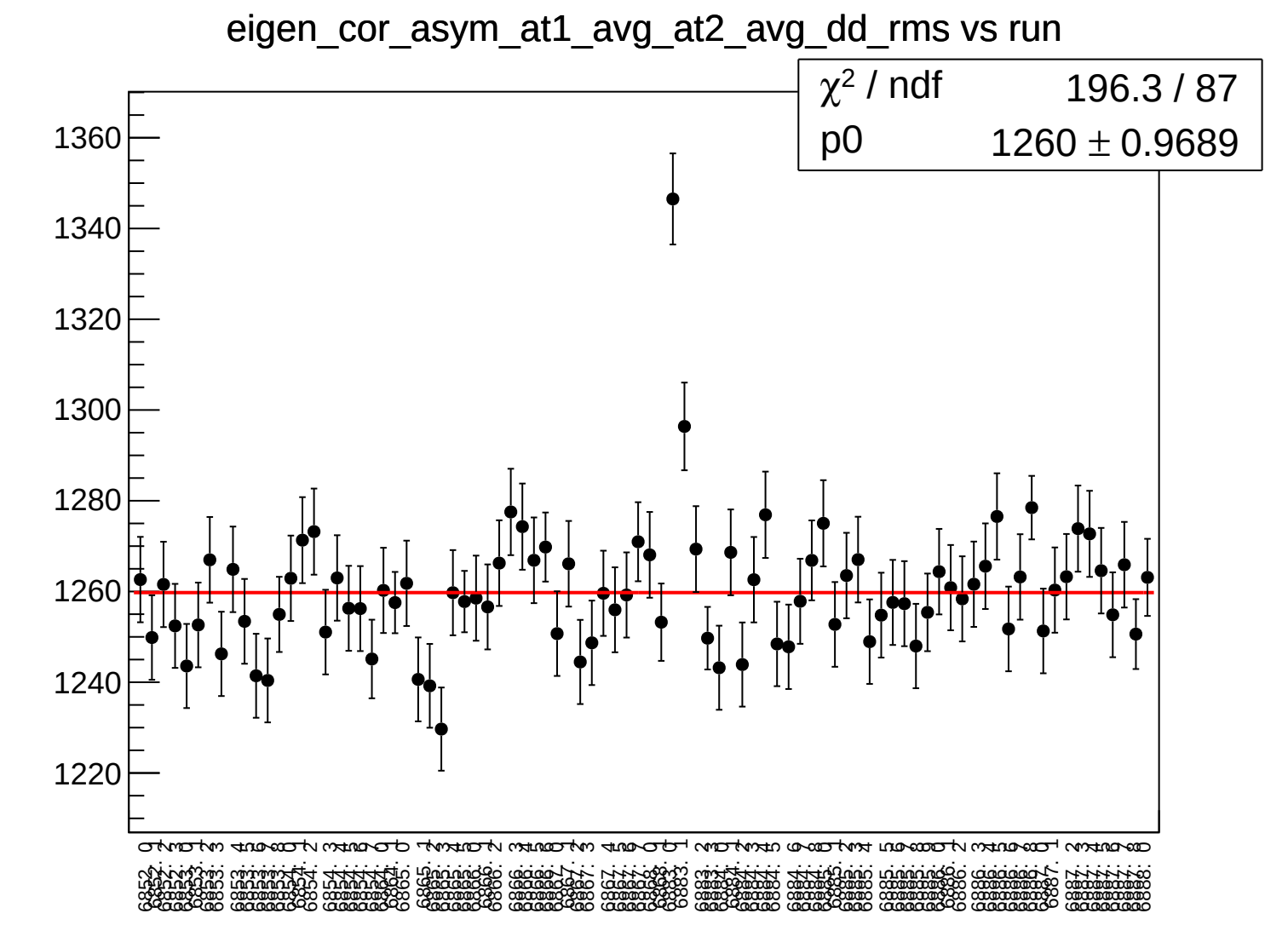

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.02 / 87
p0 3005 ± 4207
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 38.31
Std Dev 0
2
1
0
−1
−2

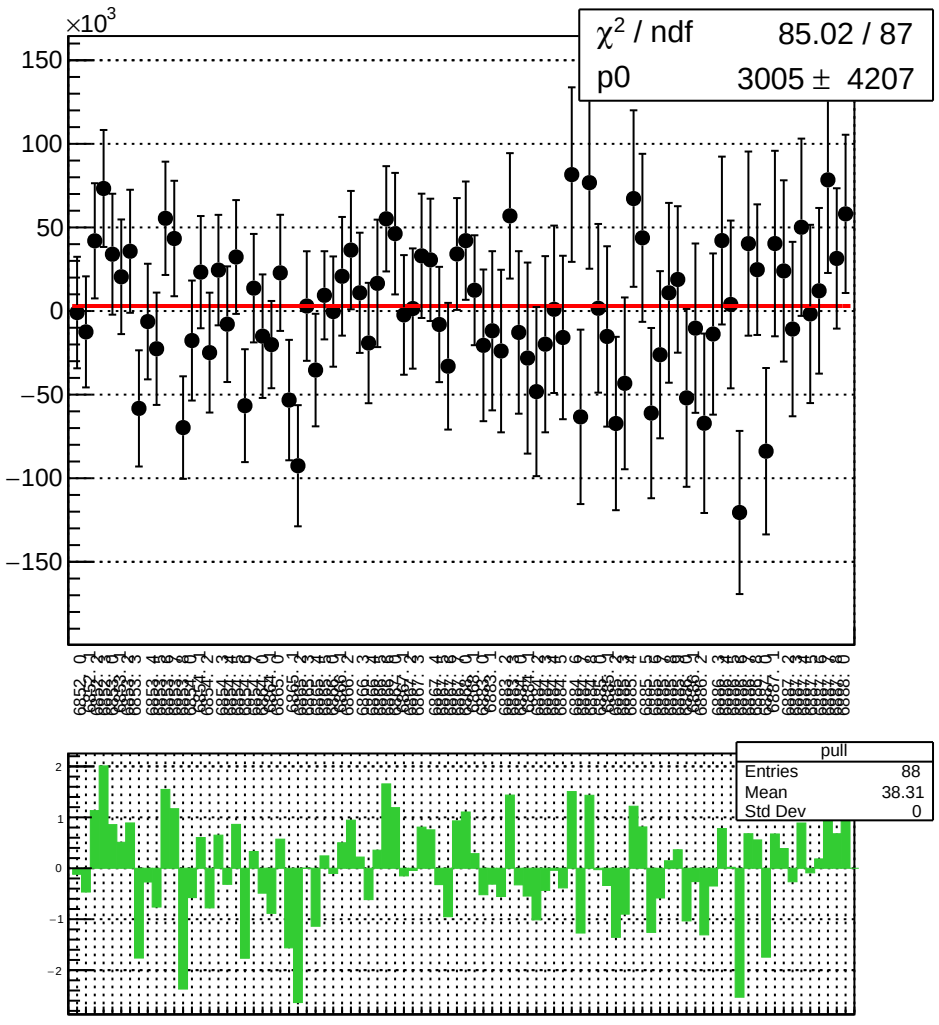

pull1D
Entries 88
Mean −0.01252
Std Dev 0.9829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

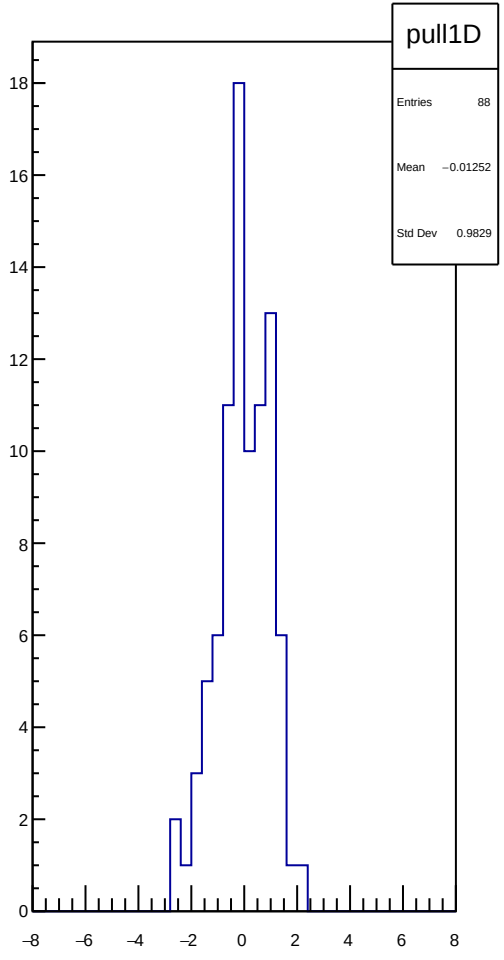

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 5.815e+04 / 87
p0 3801 ± 2.975
5500
5000
4500
4000
3500
3000

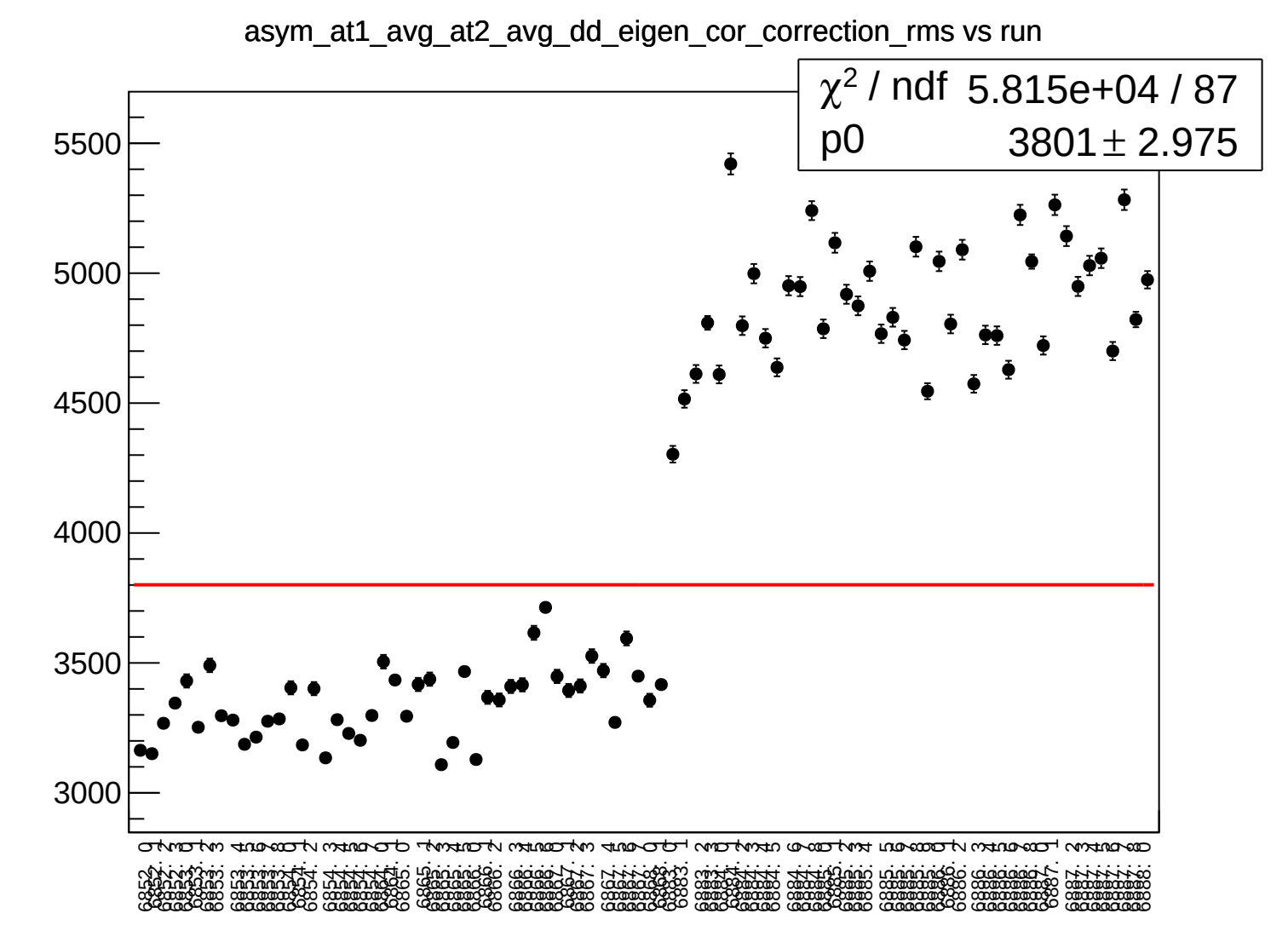

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 84.93 / 87
p0 379.5 ± 1370
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −305.6
Std Dev 0
3
2
1
0
−1
−2

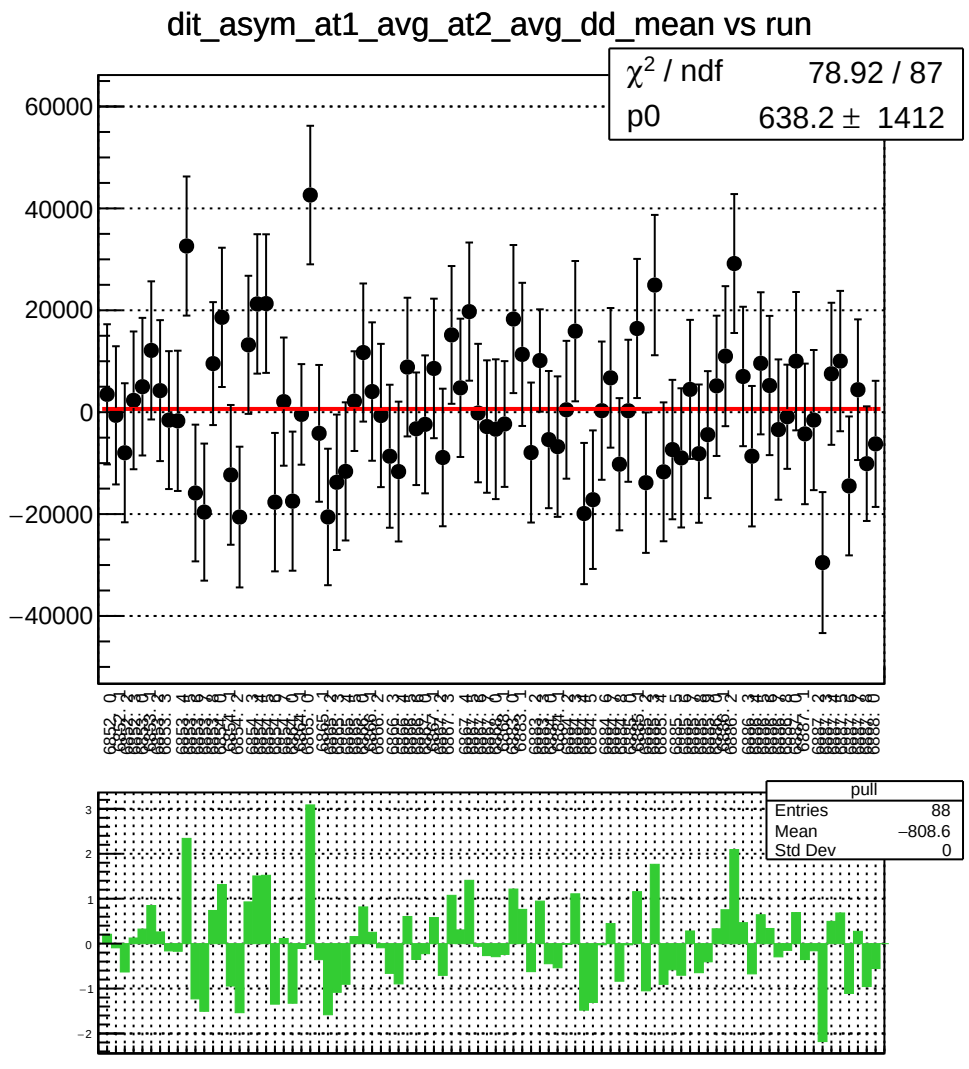

pull1D
Entries 88
Mean 0.005168
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

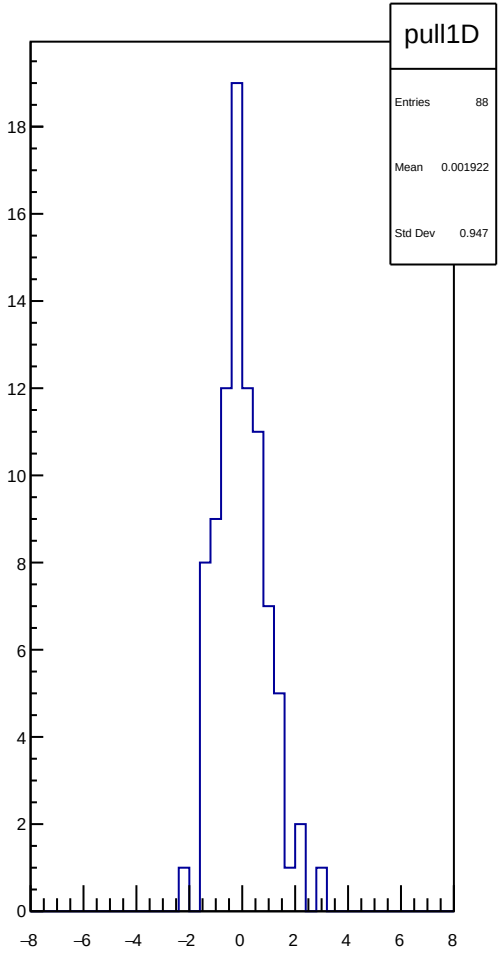

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 196.3 / 87
p0 1260 ± 0.9689
1360
1340
1320
1300
1280
1260
1240
1220

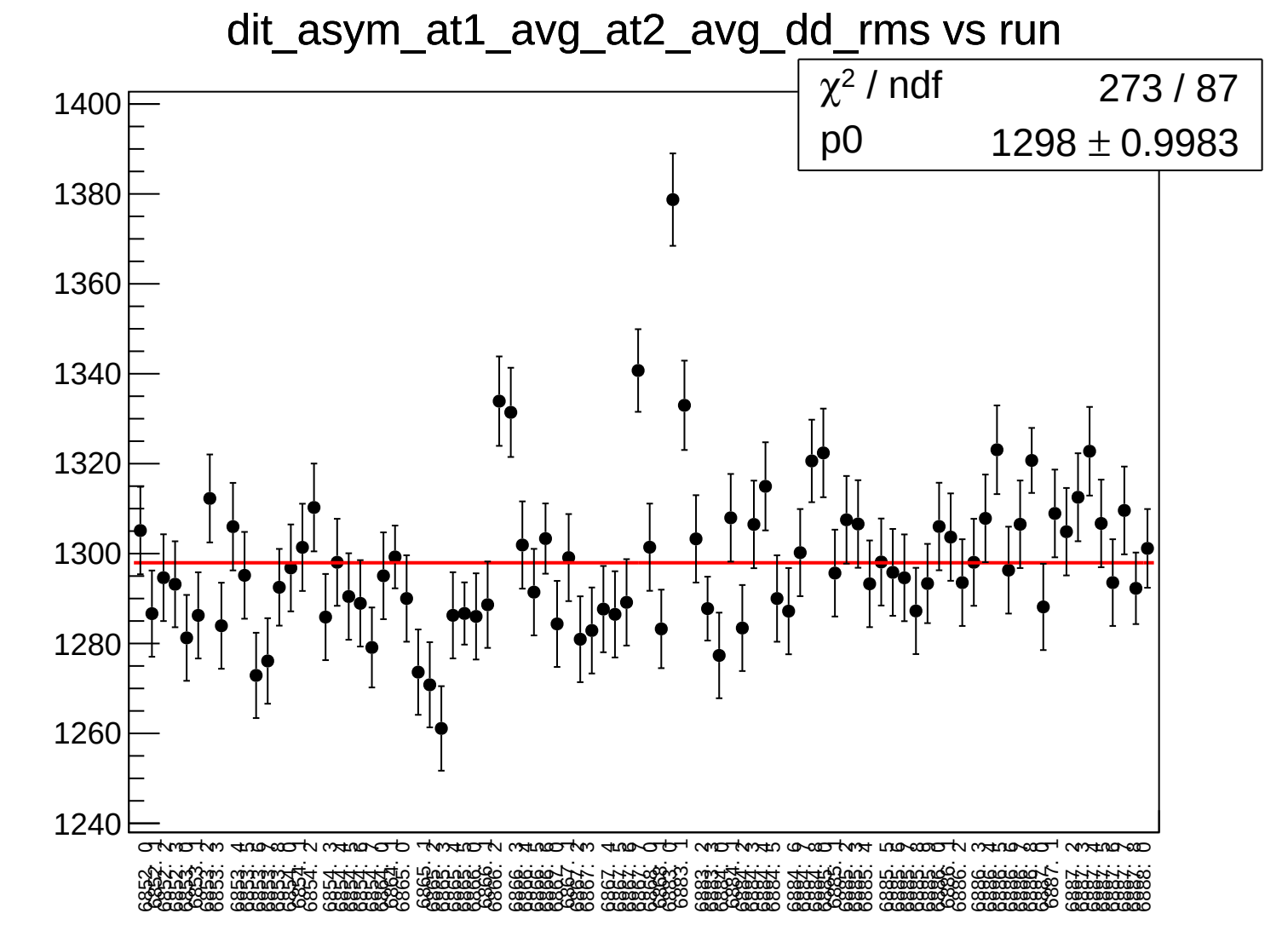

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.02 / 87
p0 3005 ± 4207
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 38.31
Std Dev 0
2
1
0
−1
−2

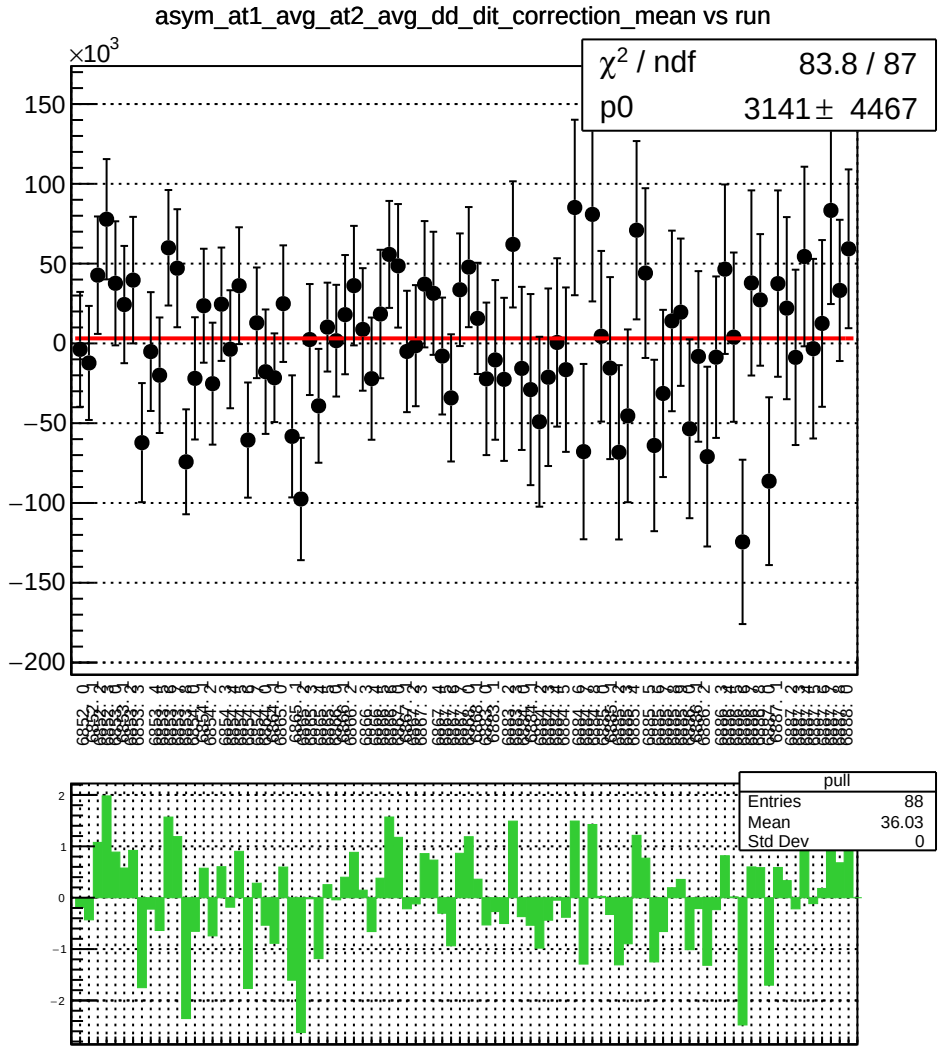

pull1D
Entries 88
Mean −0.01252
Std Dev 0.9829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

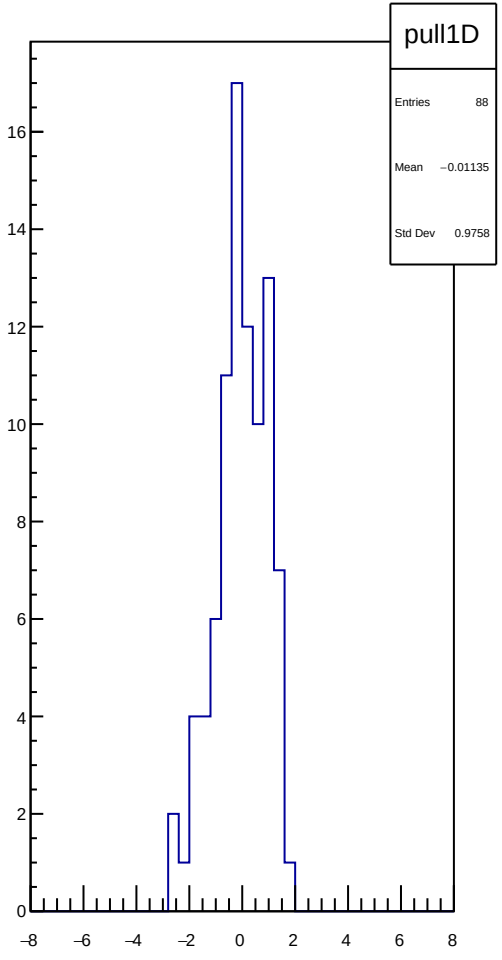

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.815e+04 / 87
p0 3801 ± 2.975
5500
5000
4500
4000
3500
3000

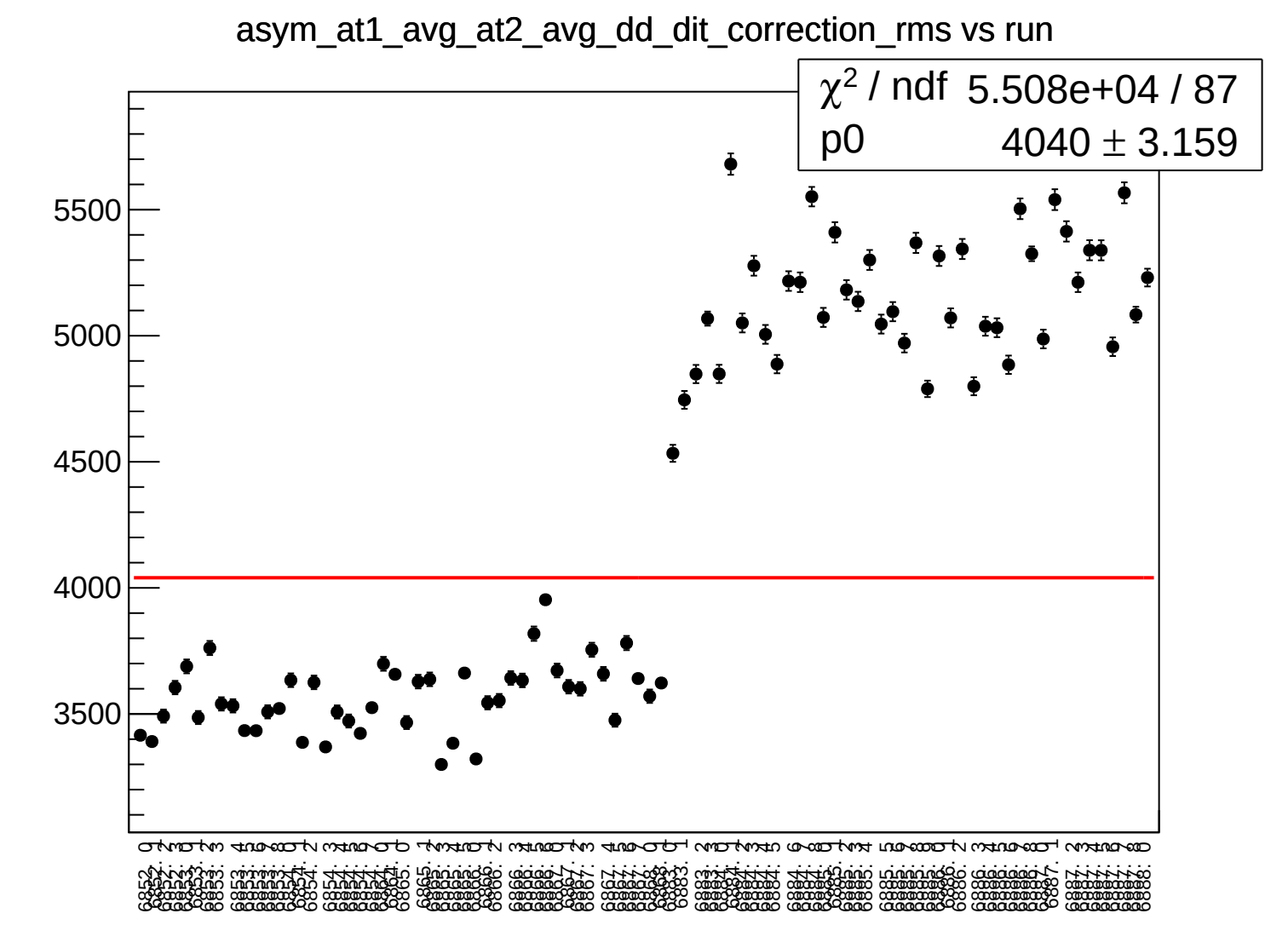

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 78.92 / 87
p0 638.2 ± 1412
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −808.6
Std Dev 0
3
2
1
0
−1
−2

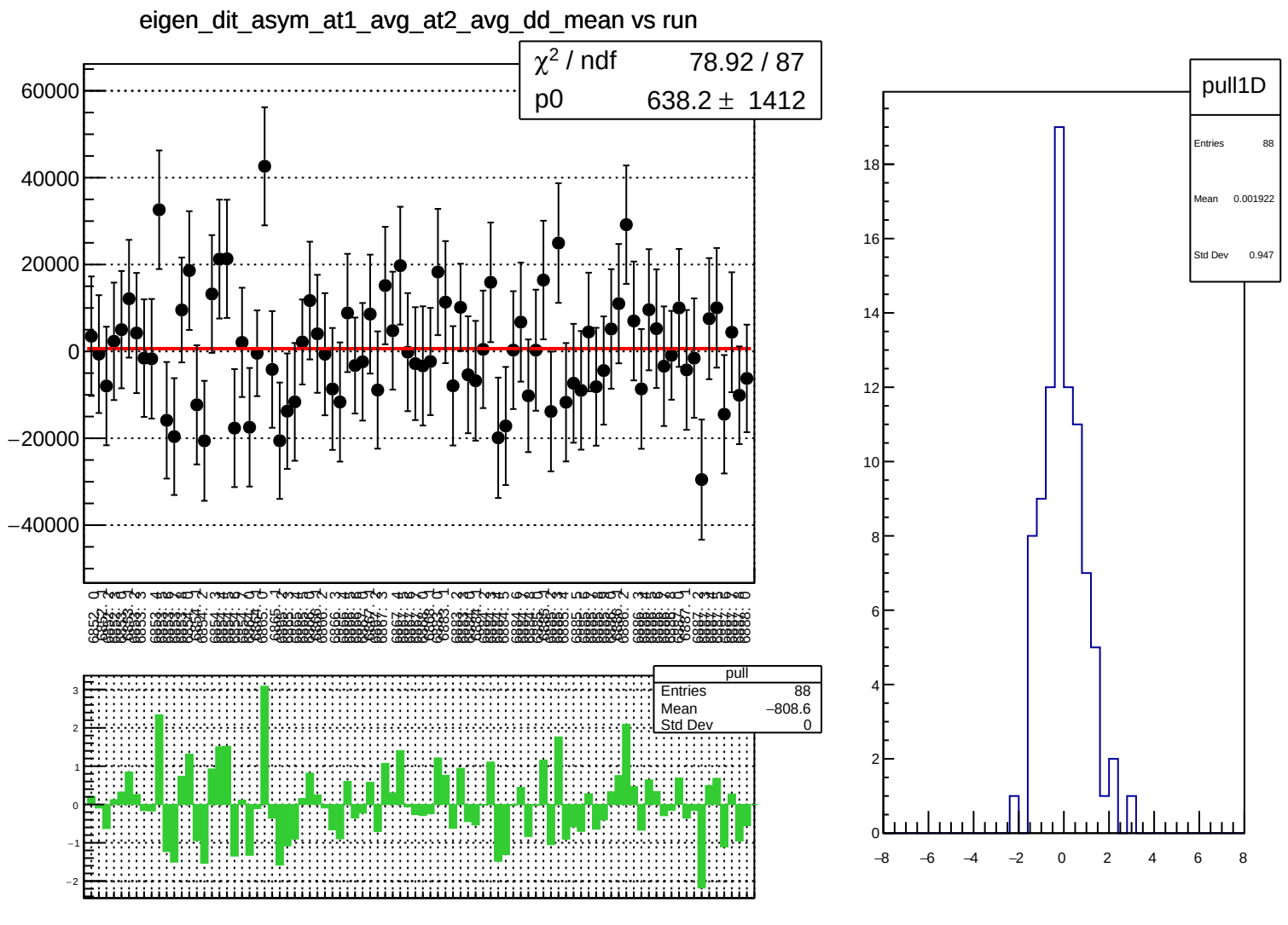

pull1D
Entries 88
Mean 0.001922
Std Dev 0.947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

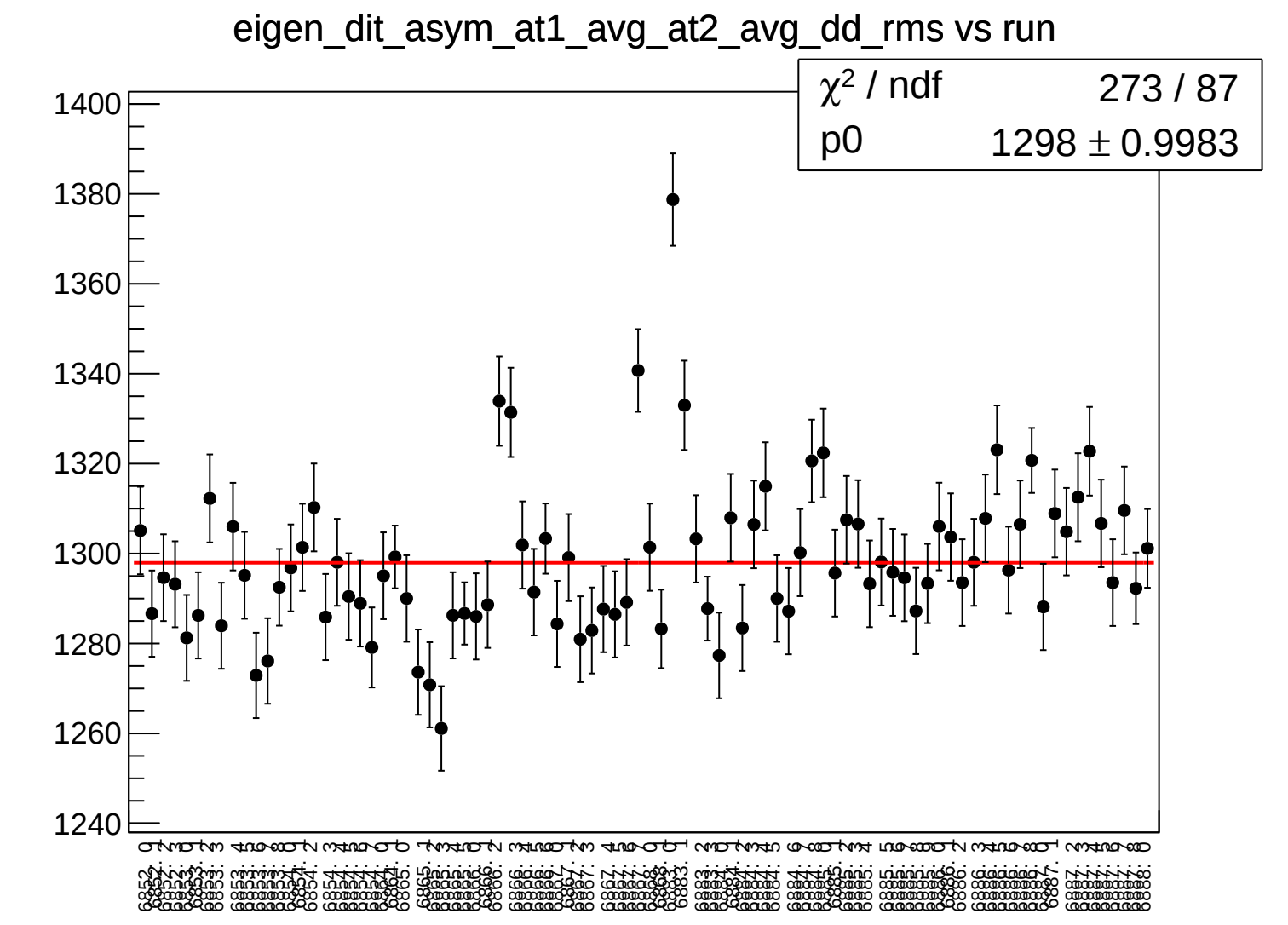

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 273 / 87
p0 1298 ± 0.9983
1400
1380
1360
1340
1320
1300
1280
1260
1240

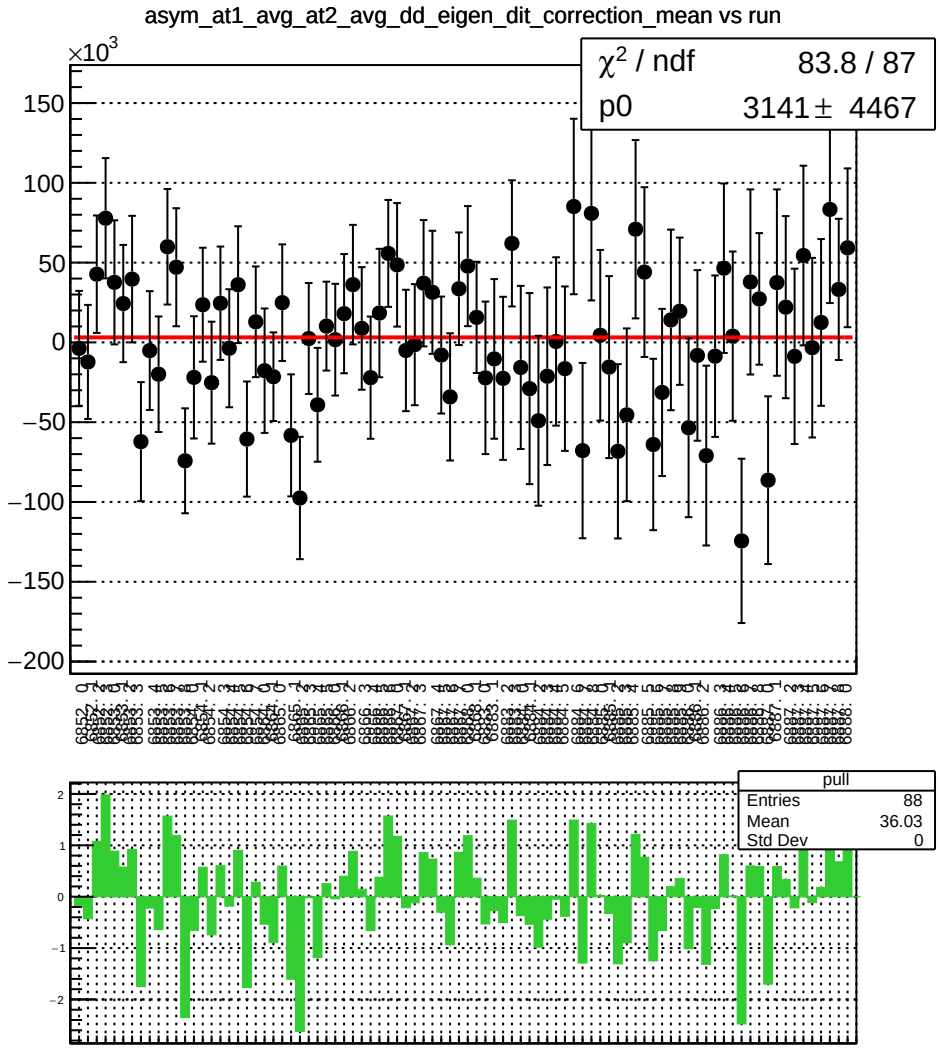

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 83.8 / 87
p0 3141 ± 4467
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 36.03
Std Dev 0
2
1
0
−1
−2

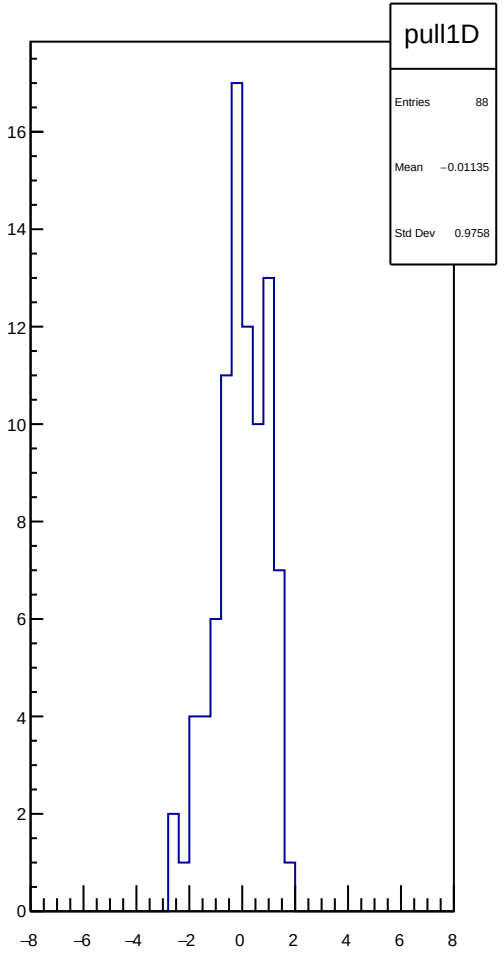

pull1D
Entries 88
Mean −0.01135
Std Dev 0.9758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

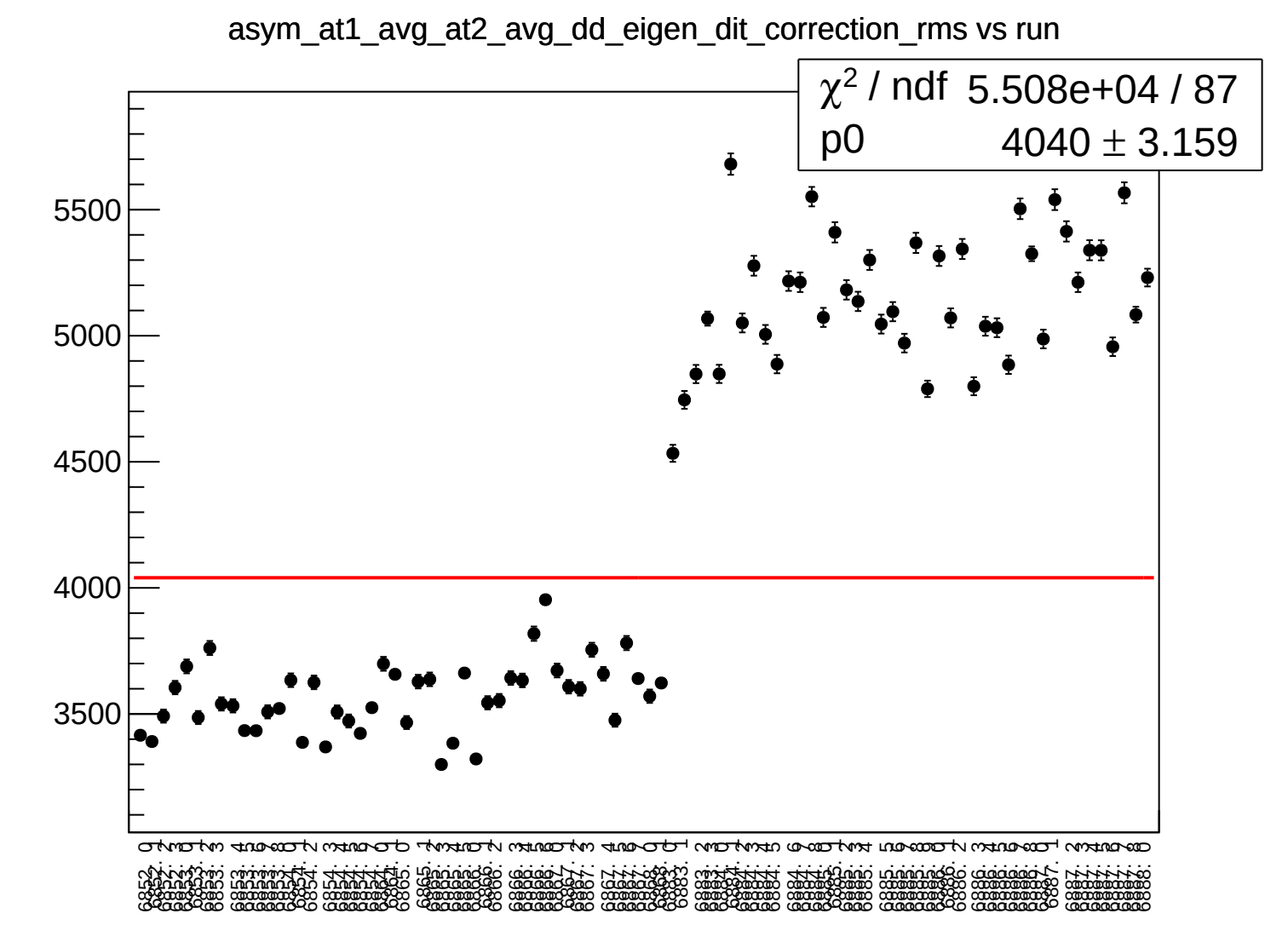

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 5.508e+04 / 87
p0 4040 ± 3.159
5500
5000
4500
4000
3500

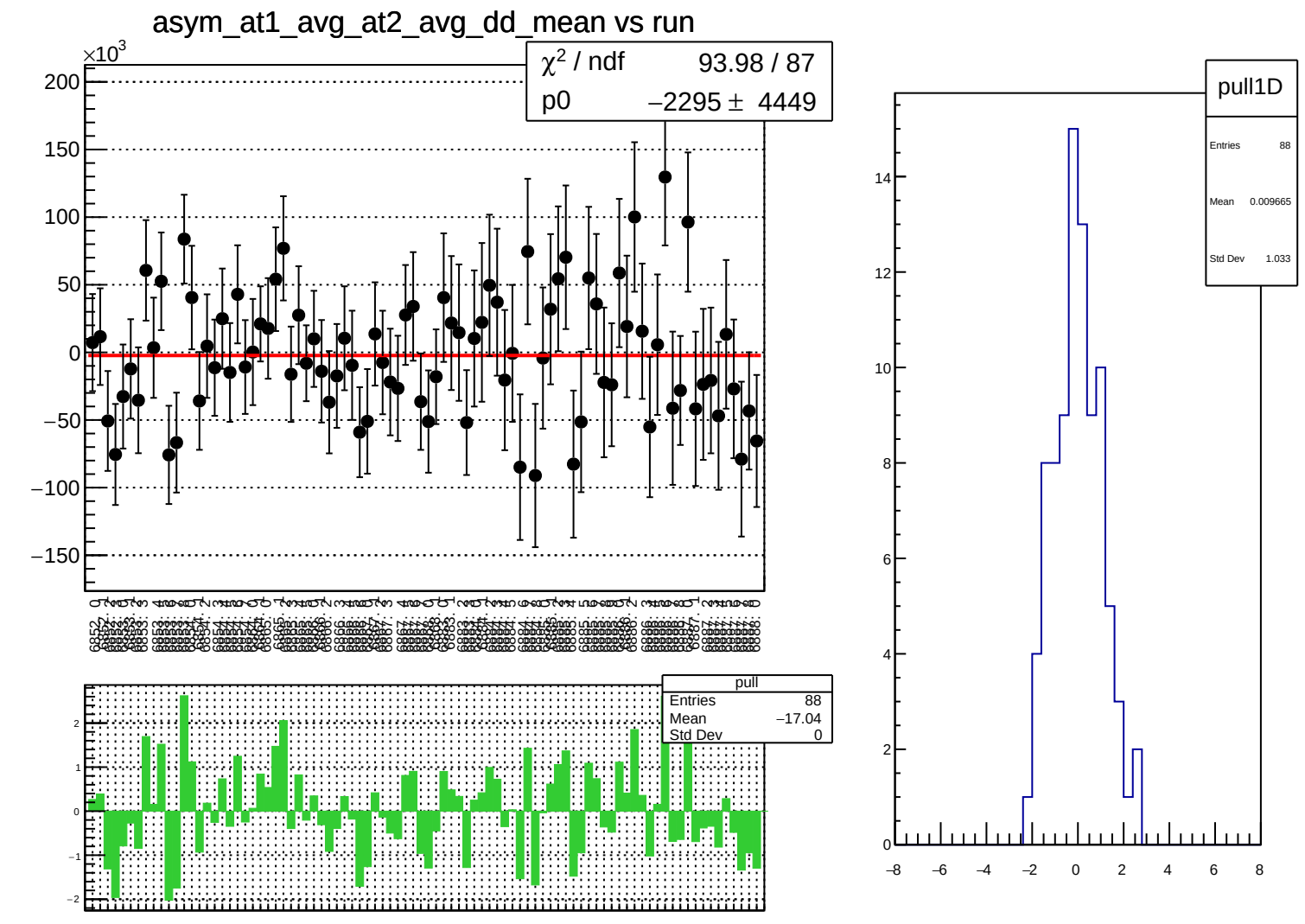

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 78.92 / 87
p0 638.2 ± 1412
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −808.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001922
Std Dev 0.947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

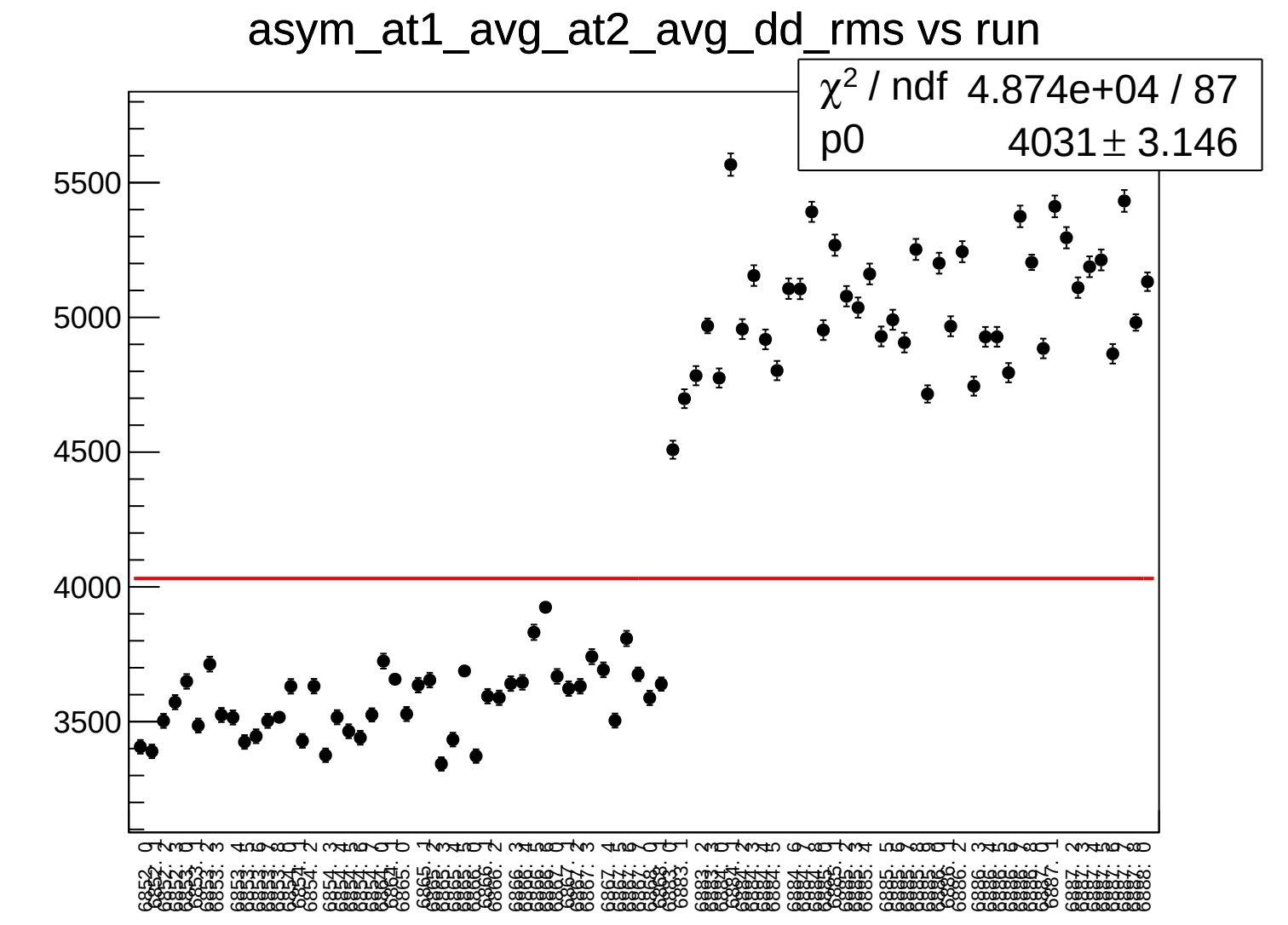

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 273 / 87
p0 1298 ± 0.9983
1400
1380
1360
1340
1320
1300
1280
1260
1240

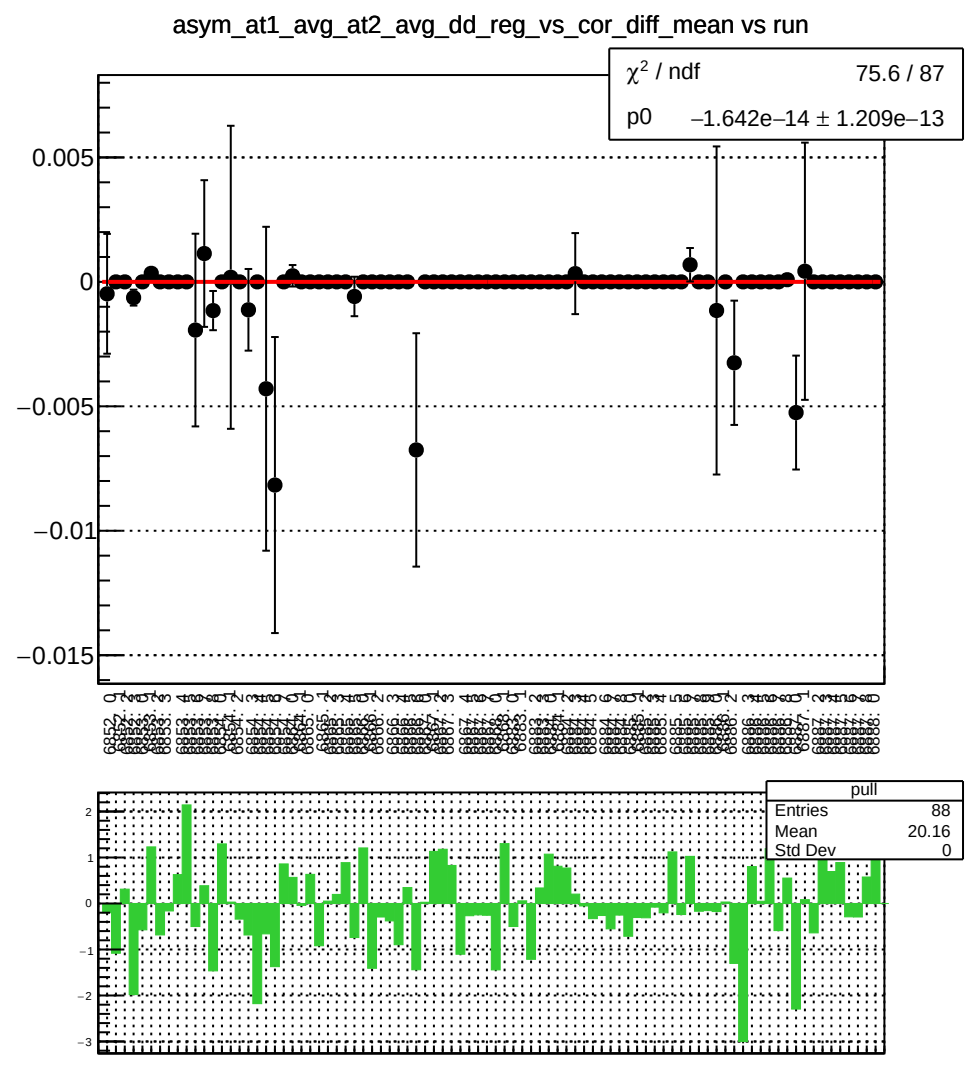

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.8 / 87
p0 3141 ± 4467
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 36.03
Std Dev 0
2
1
0
−1
−2

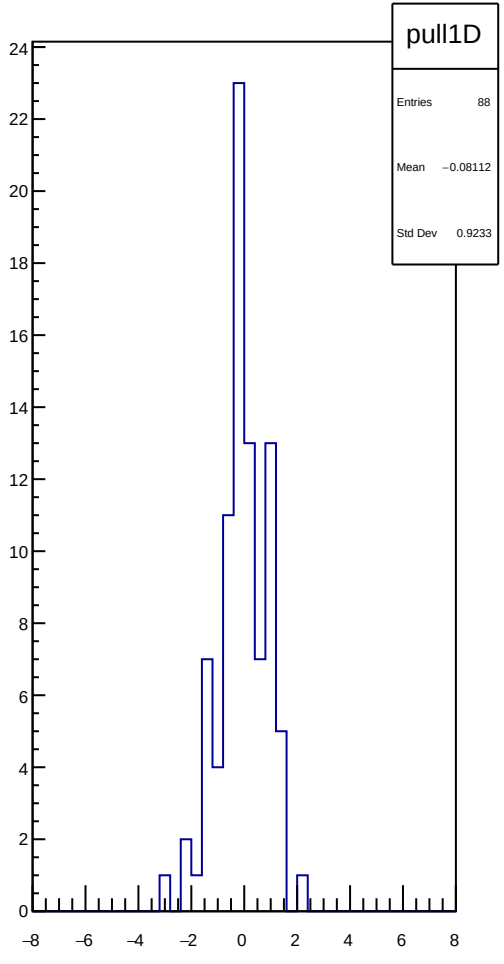

pull1D
Entries 88
Mean −0.01135
Std Dev 0.9758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

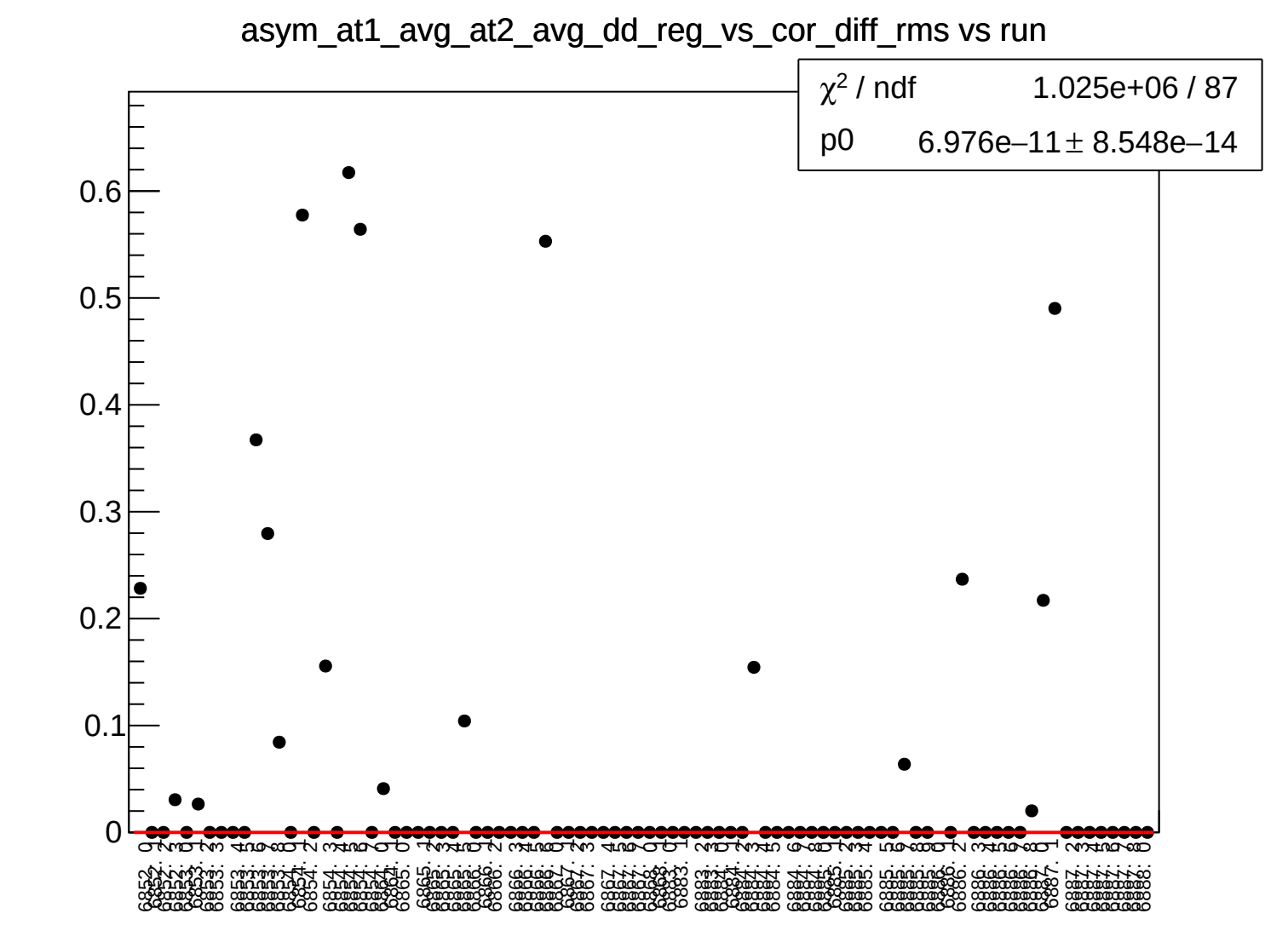

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.508e+04 / 87
p0 4040 ± 3.159
5500
5000
4500
4000
3500

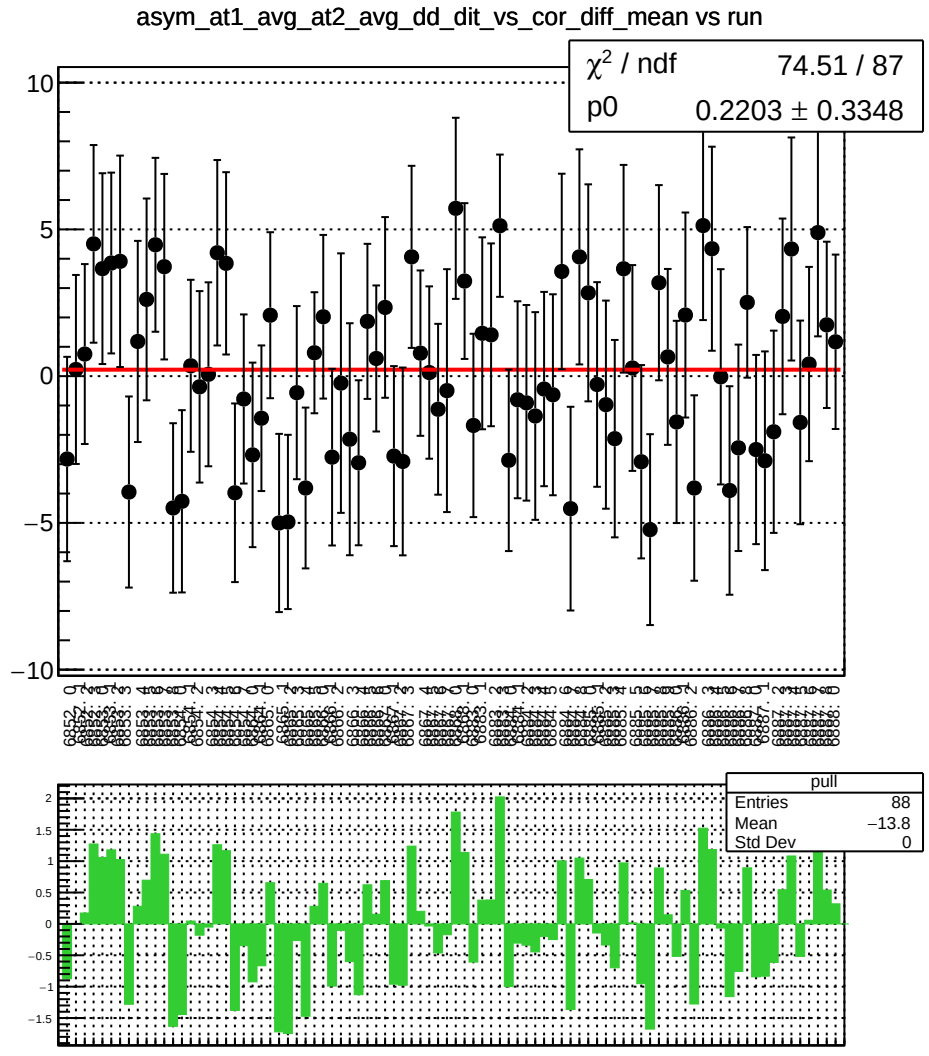

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 93.98 / 87
p0 −2295 ± 4449
pull
Entries 88
Mean −17.04
Std Dev 0
pull1D
Entries 88
Mean 0.009665
Std Dev 1.033

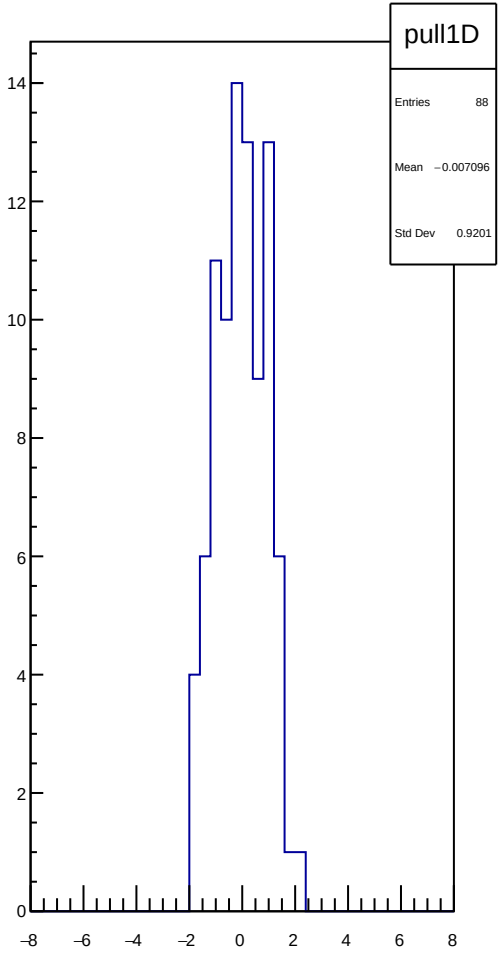

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 4.874e+04 / 87
p0 4031 ± 3.146
5500
5000
4500
4000
3500

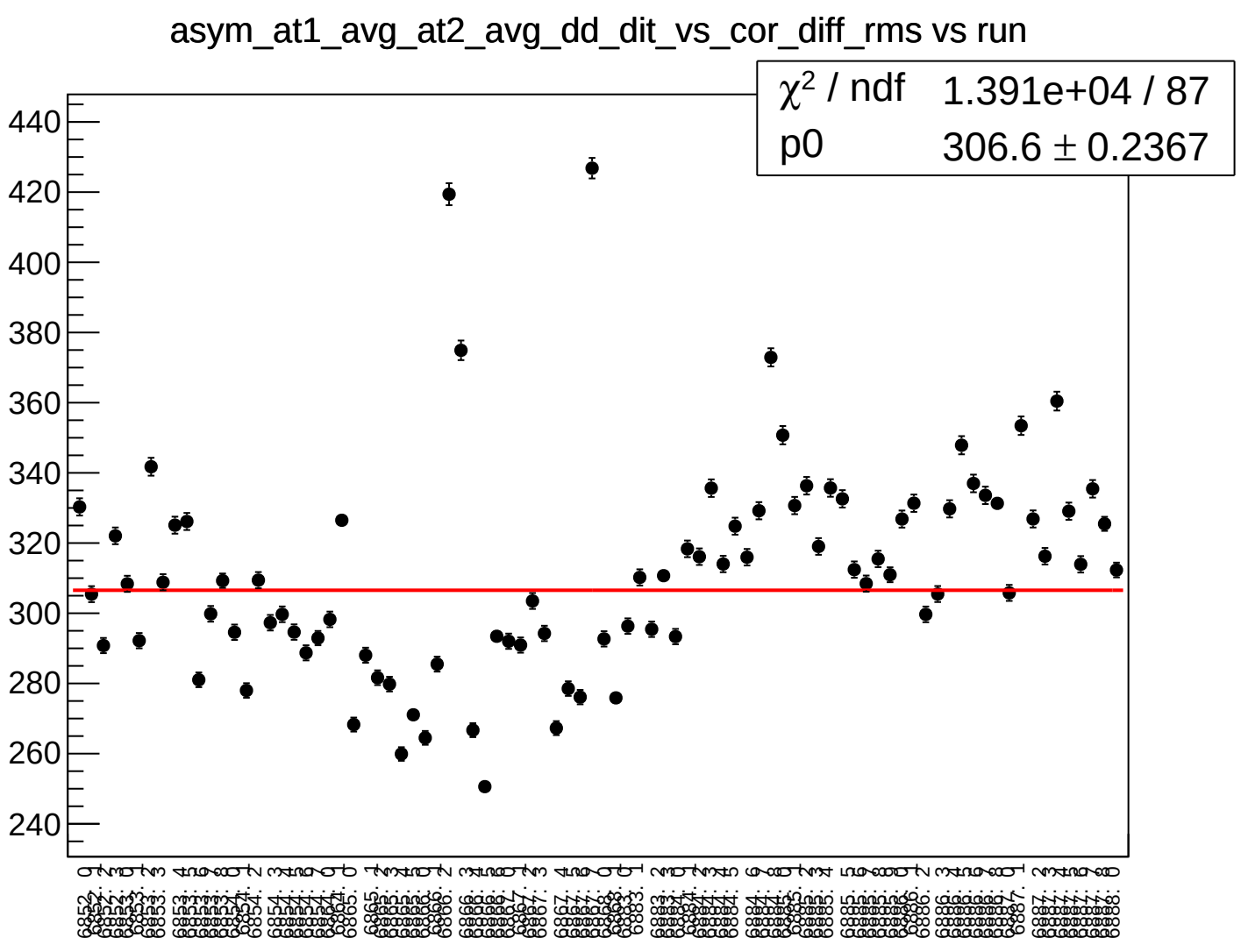

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.6 / 87
p0 −1.642e−14 ± 1.209e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 20.16
Std Dev 0
2
1
0
−1
−2
−3

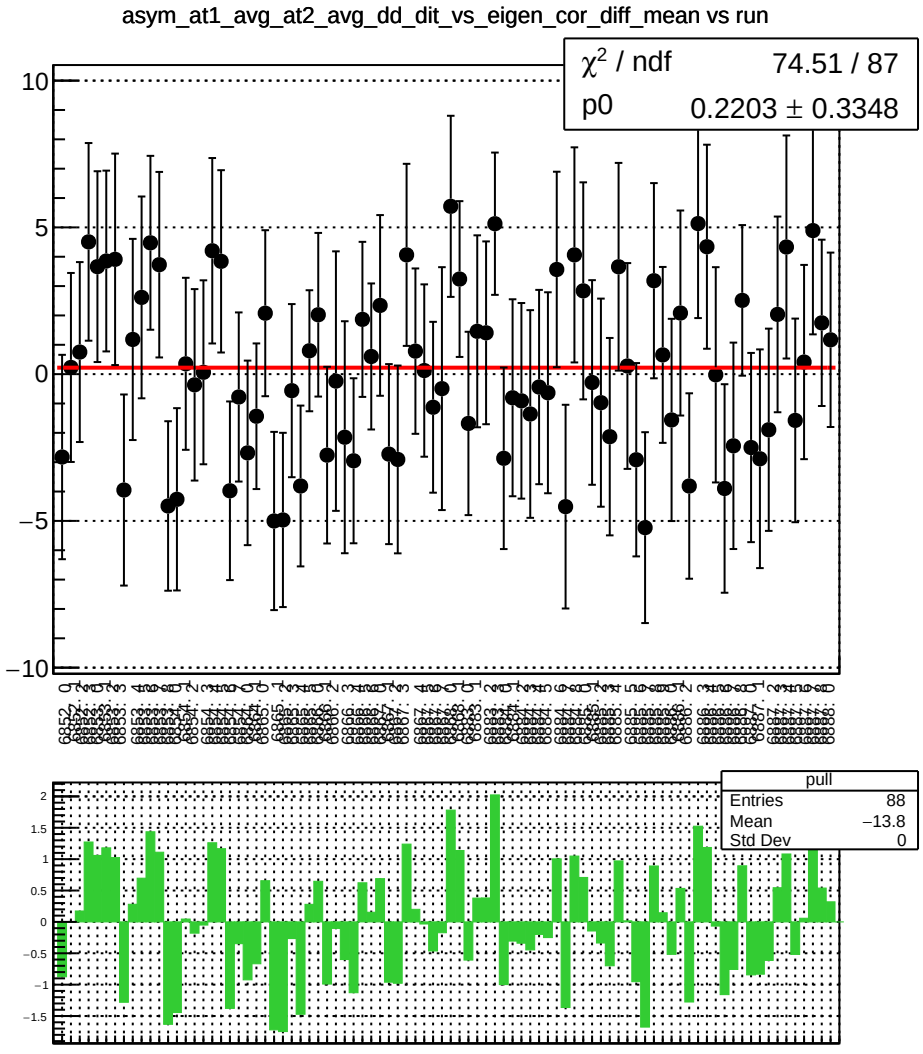

pull1D
Entries 88
Mean −0.08112
Std Dev 0.9233
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

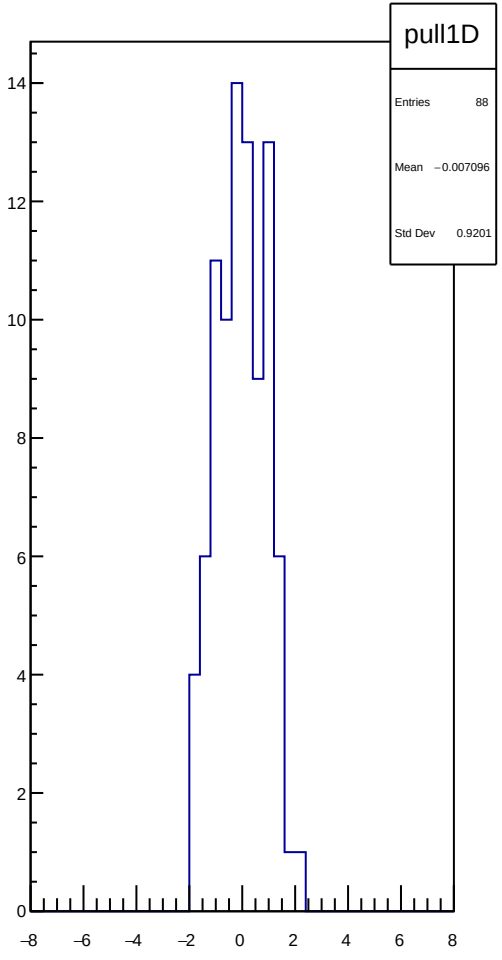

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.025e+06 / 87
p0 6.976e−11 ± 8.548e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

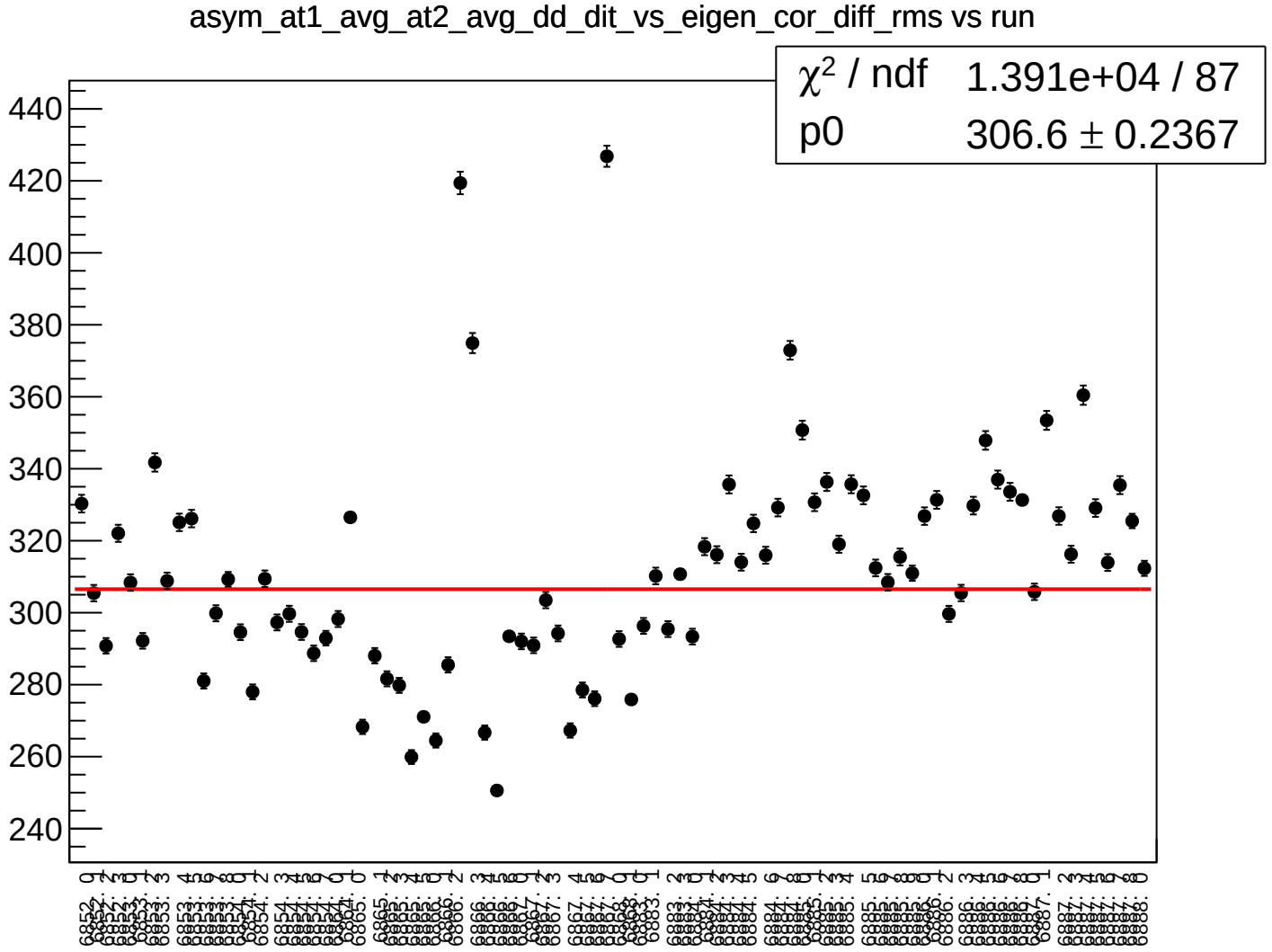

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.51 / 87
p0 0.2203 ± 0.3348
pull
Entries 88
Mean −13.8
Std Dev 0

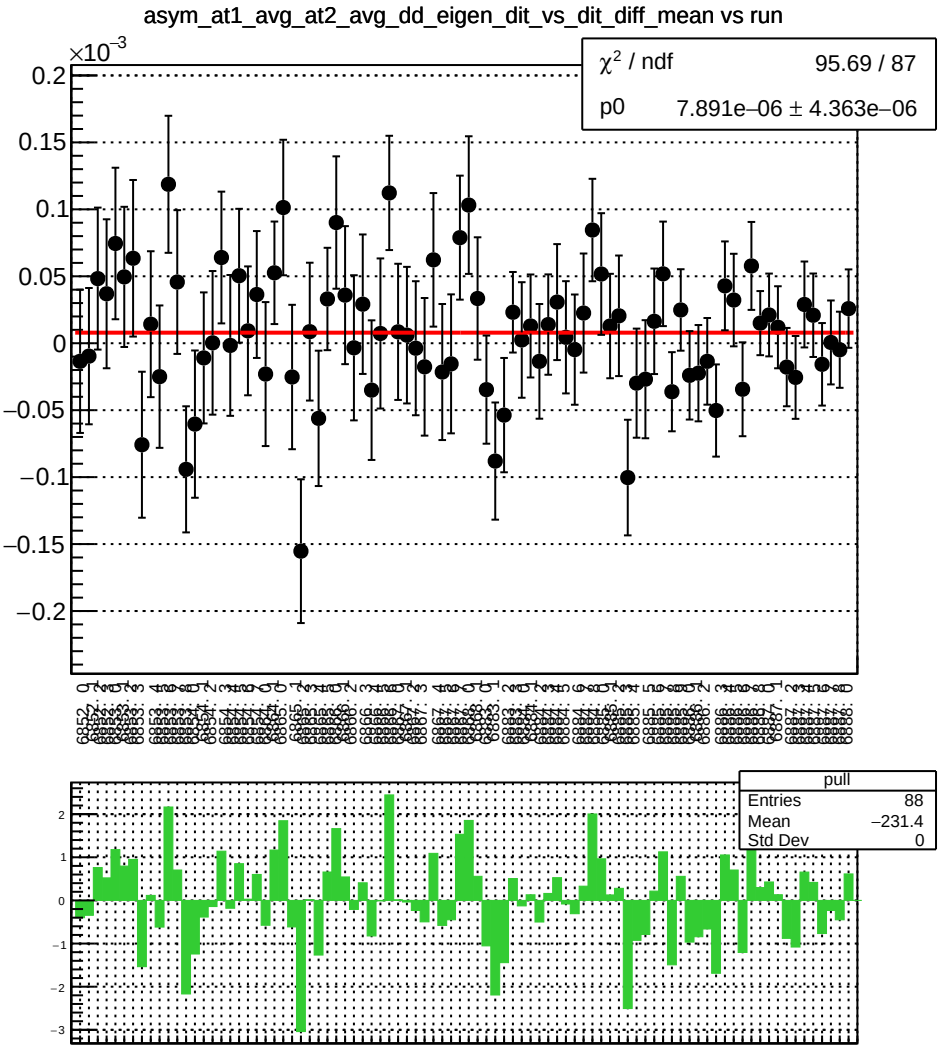

pull1D
Entries 88
Mean −0.007096
Std Dev 0.9201

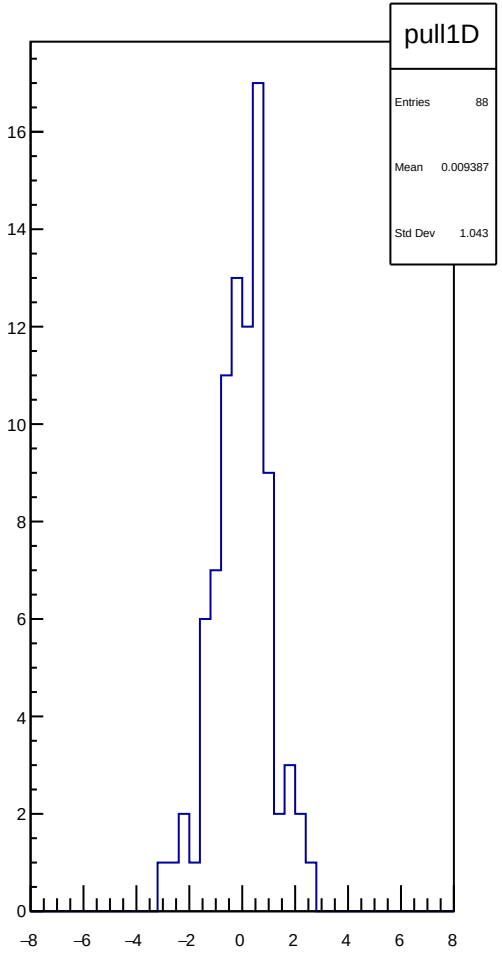

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 87
p0 306.6 ± 0.2367
440
420
400
380
360
340
320
300
280
260
240

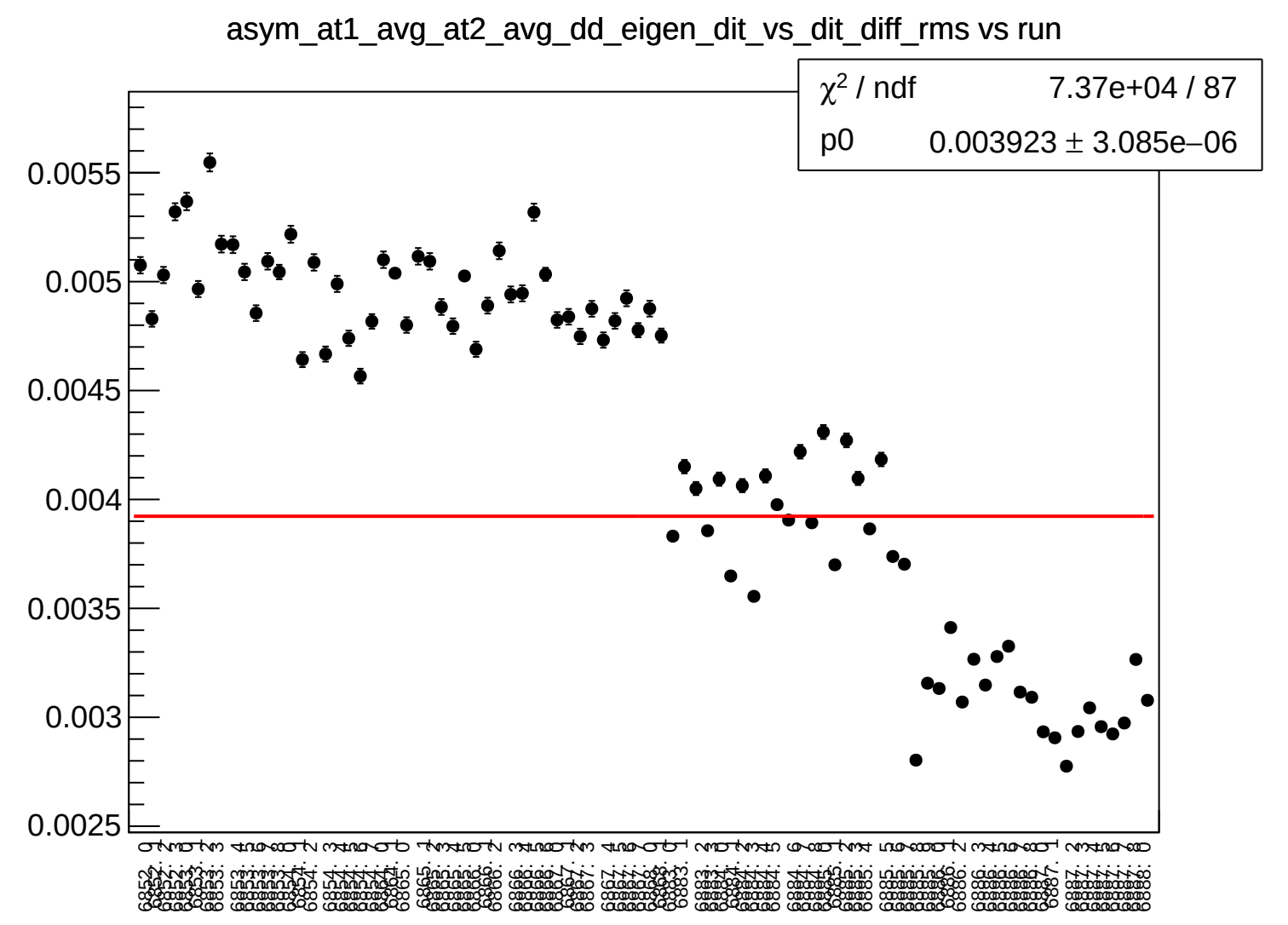

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.51 / 87
p0 0.2203 ± 0.3348
pull
Entries 88
Mean −13.8
Std Dev 0

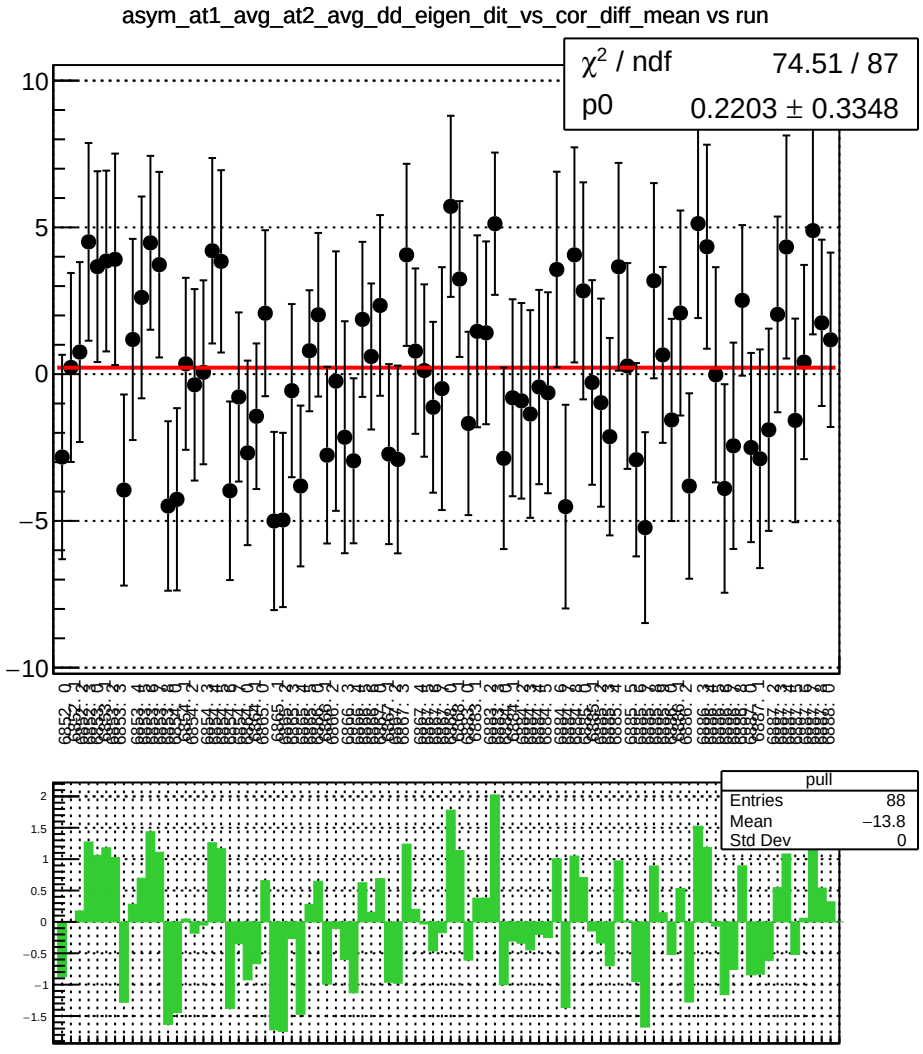

pull1D
Entries 88
Mean −0.007096
Std Dev 0.9201

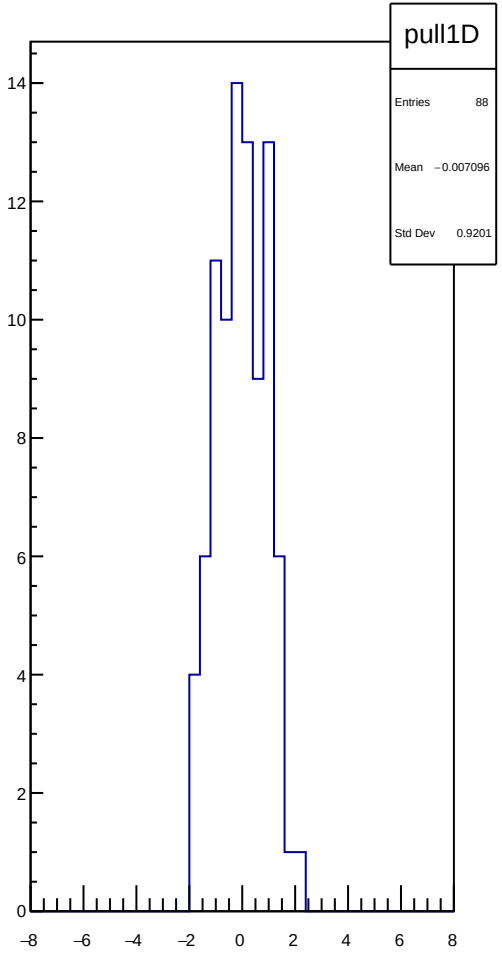

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 87
p0 306.6 ± 0.2367
440
420
400
380
360
340
320
300
280
260
240

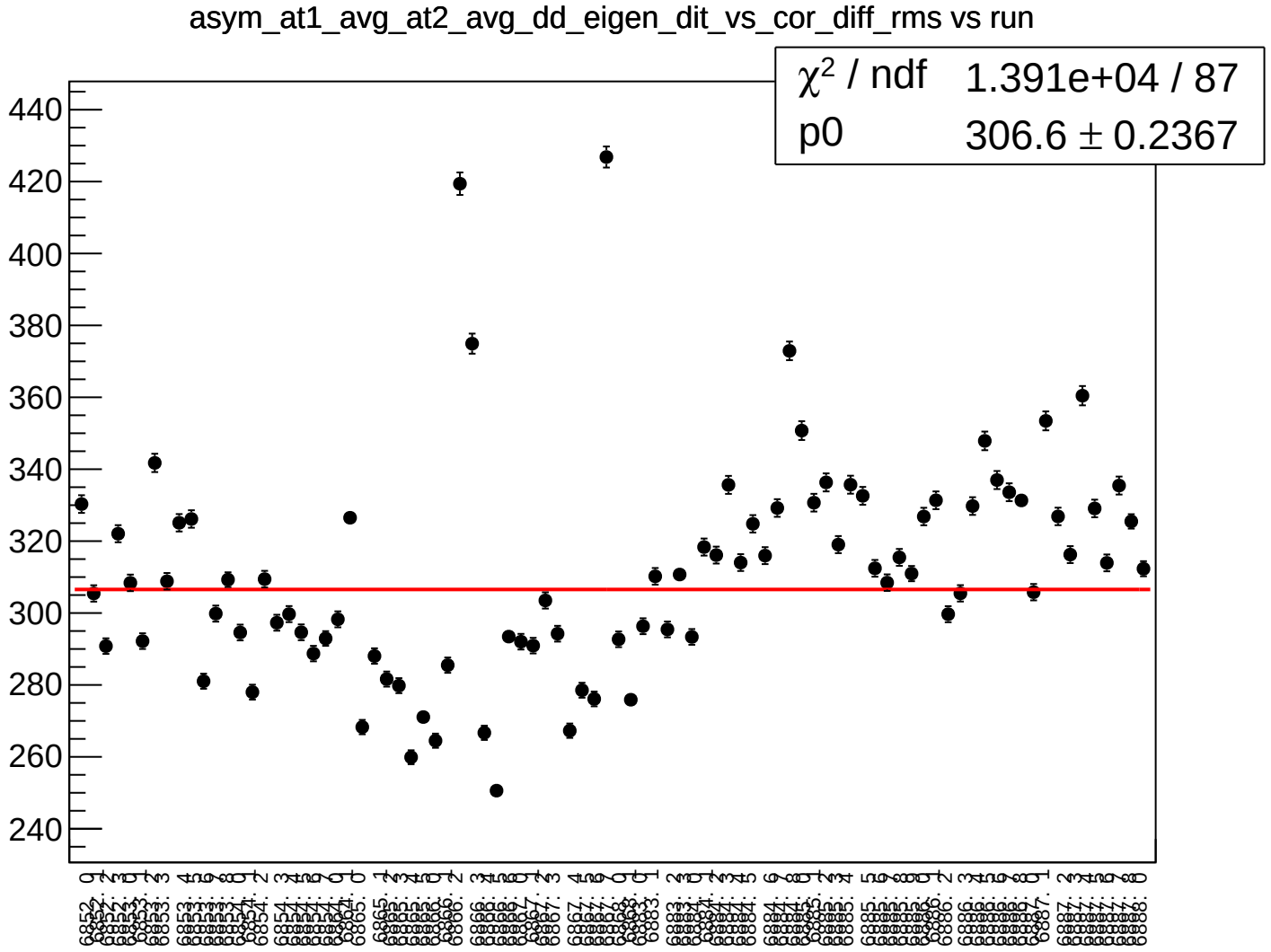

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.69 / 87
p0 7.891e−06 ± 4.363e−06
pull
Entries 88
Mean −231.4
Std Dev 0

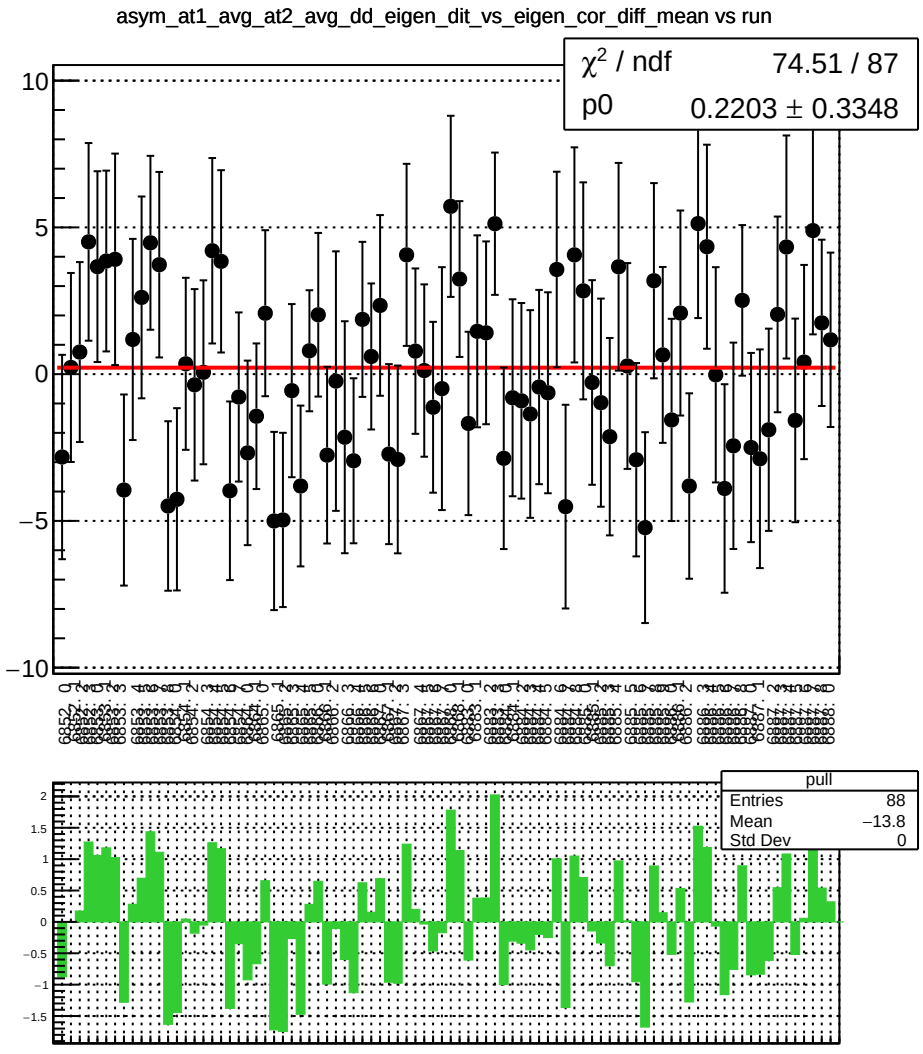

pull1D
Entries 88
Mean 0.009387
Std Dev 1.043

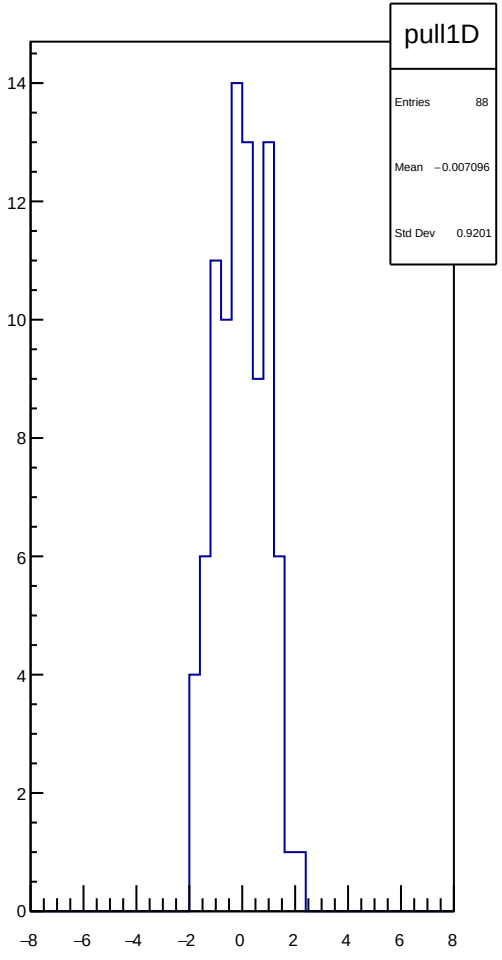

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.37e+04 / 87
p0 0.003923 ± 3.085e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

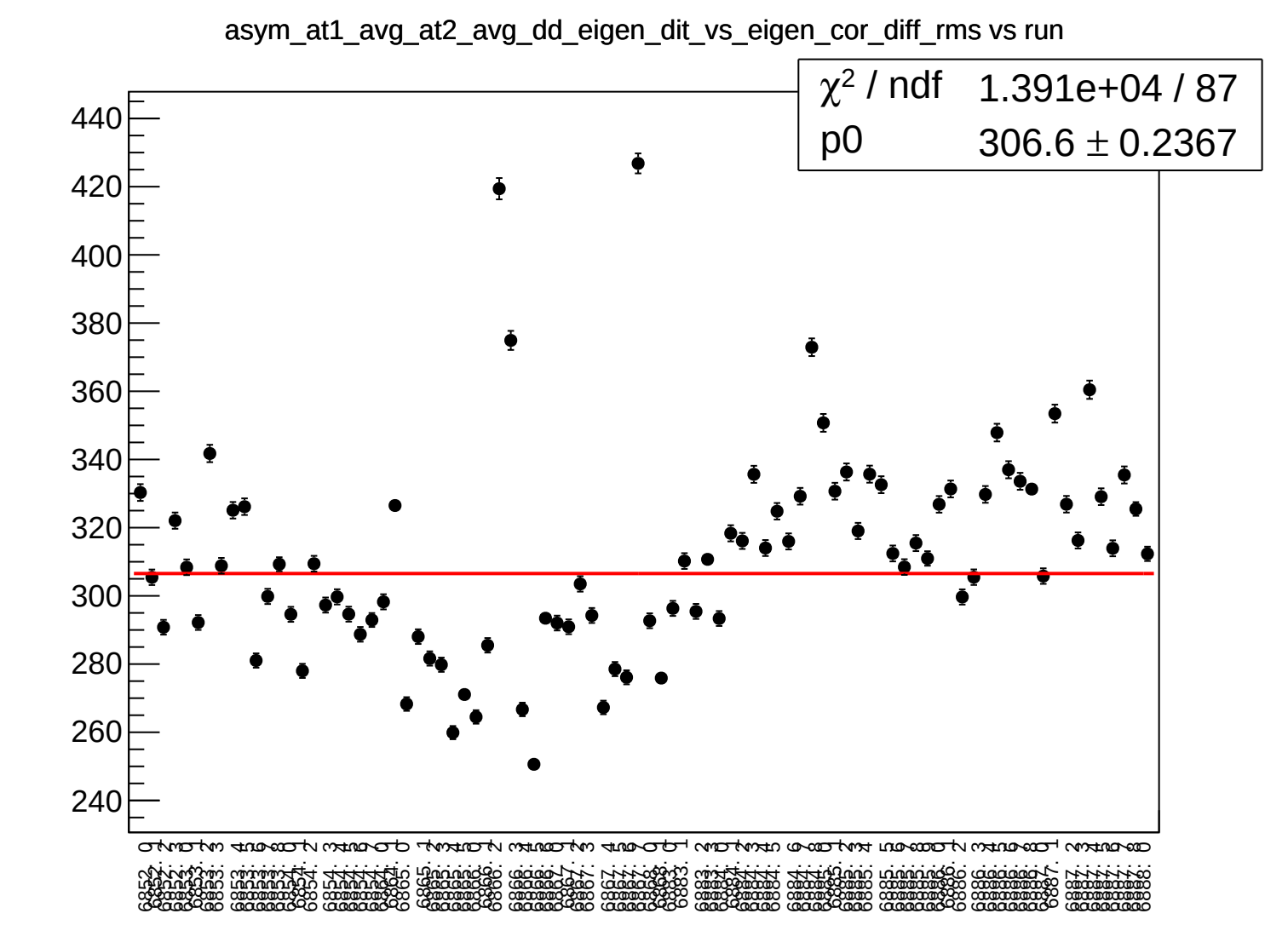

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.51 / 87
p0 0.2203 ± 0.3348
pull
Entries 88
Mean −13.8
Std Dev 0

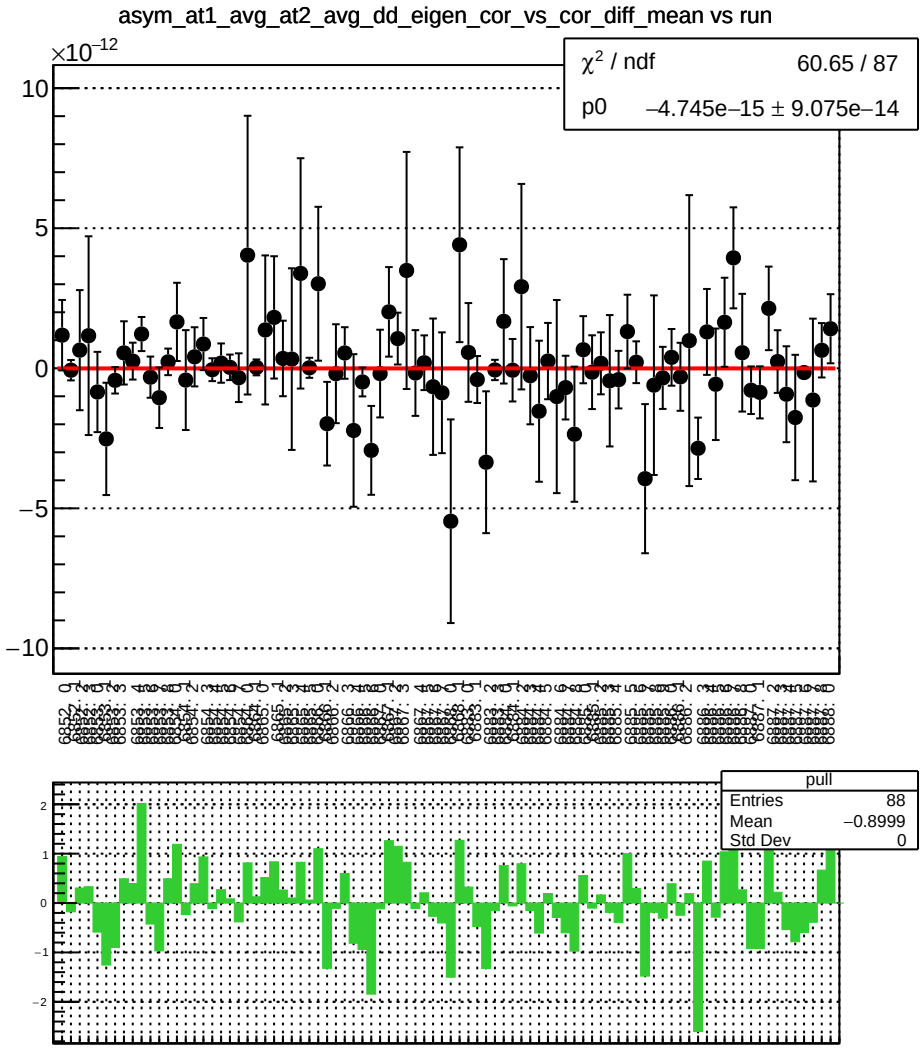

pull1D
Entries 88
Mean −0.007096
Std Dev 0.9201

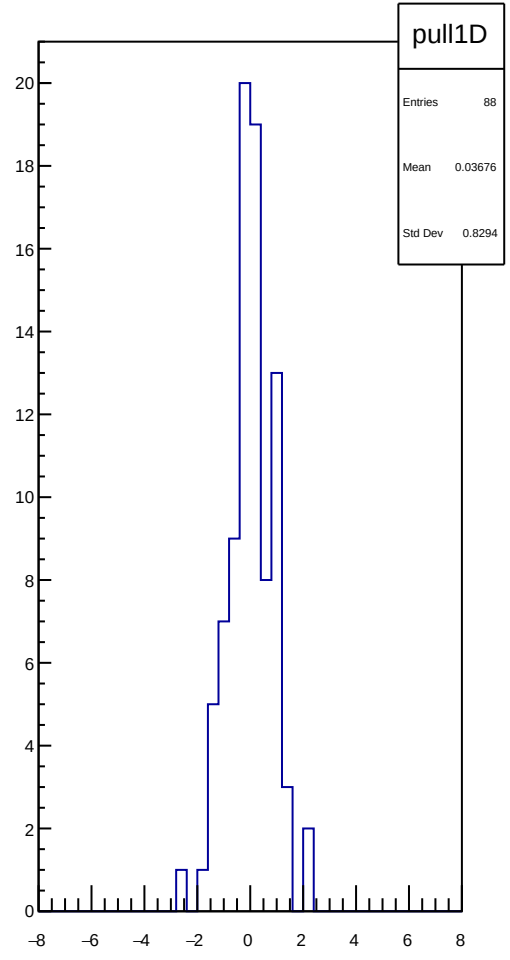

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 87
p0 306.6 ± 0.2367
440
420
400
380
360
340
320
300
280
260
240

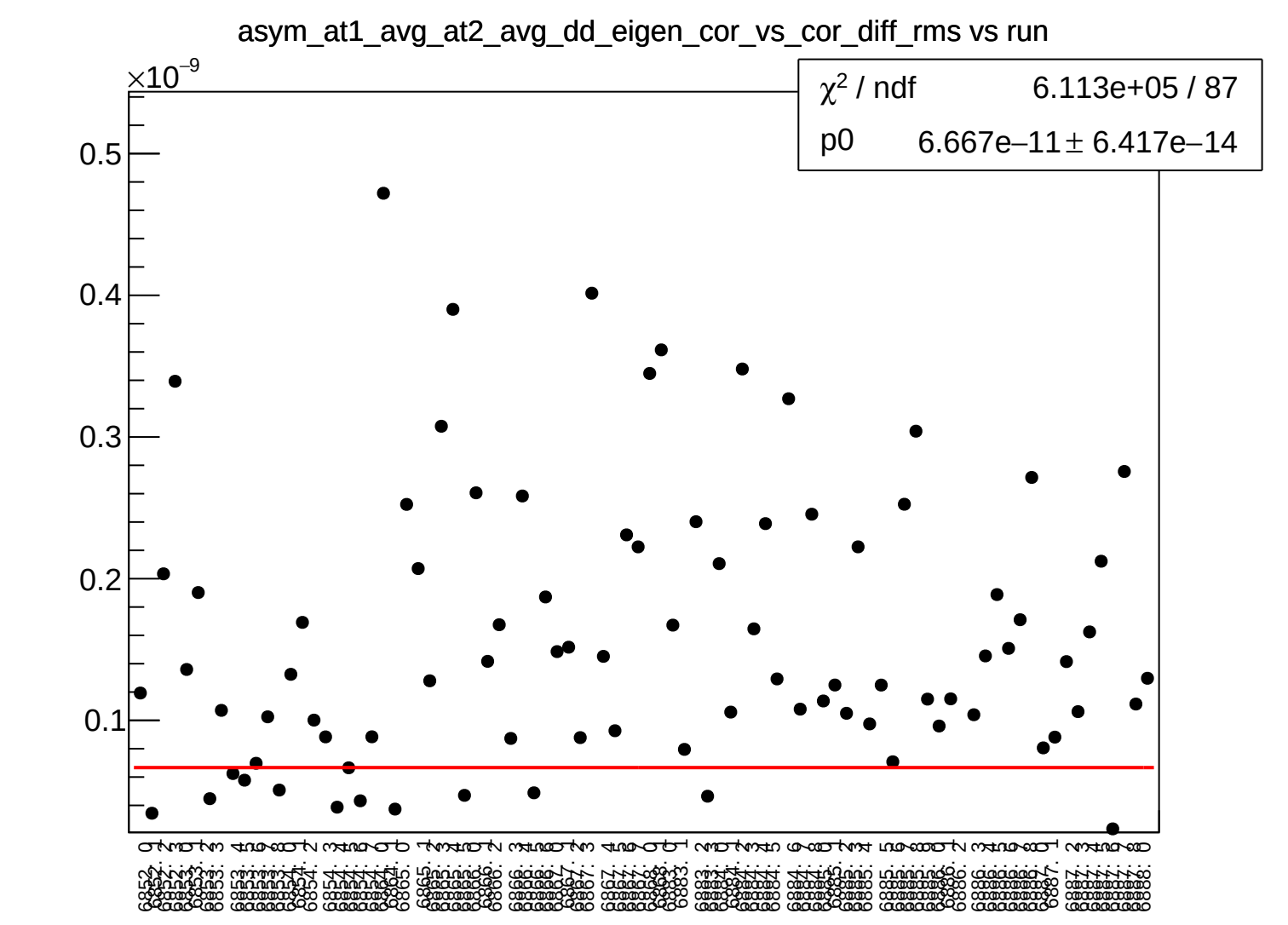

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.51 / 87
p0 0.2203 ± 0.3348
pull
Entries 88
Mean −13.8
Std Dev 0

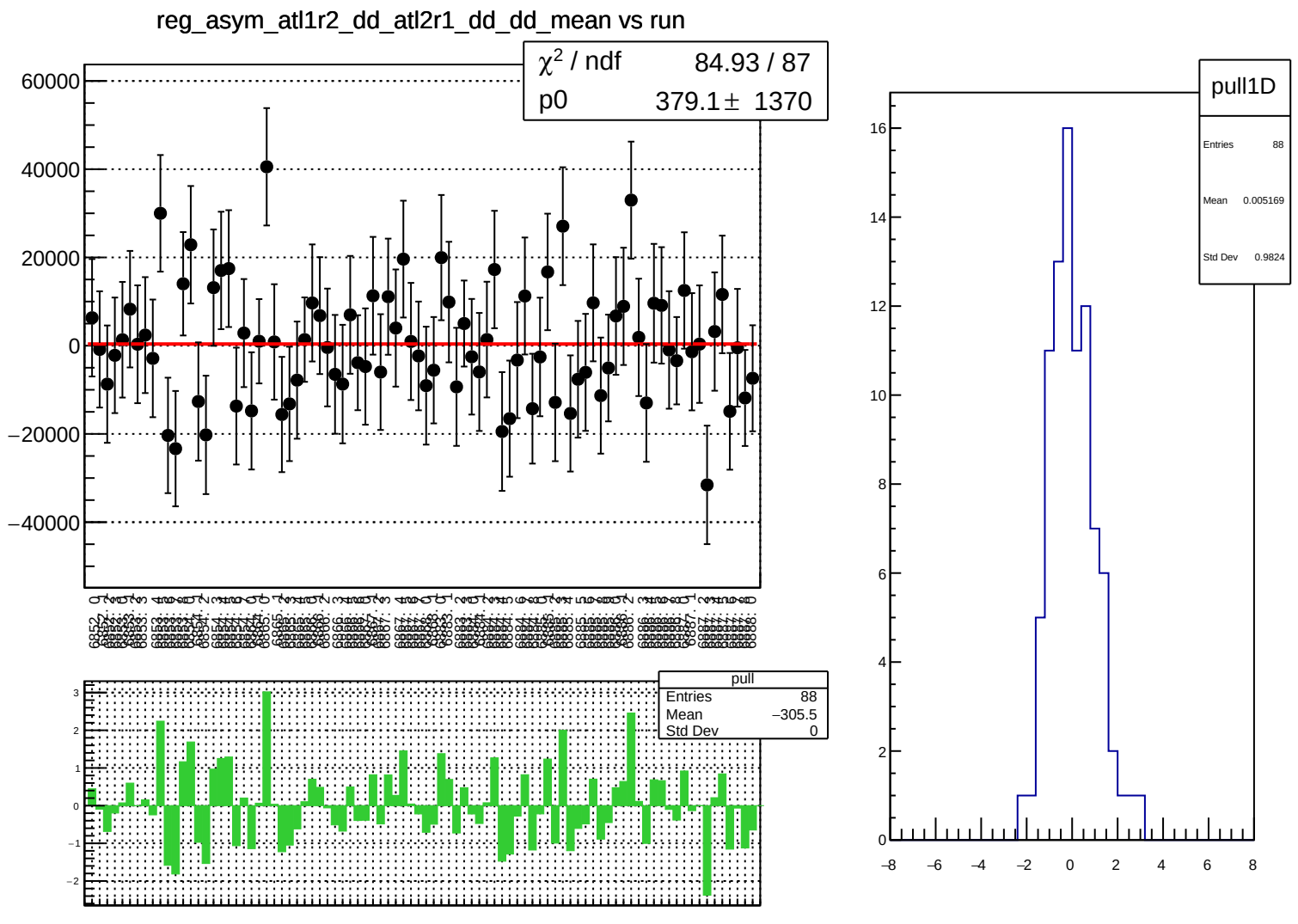

pull1D
Entries 88
Mean −0.007096
Std Dev 0.9201

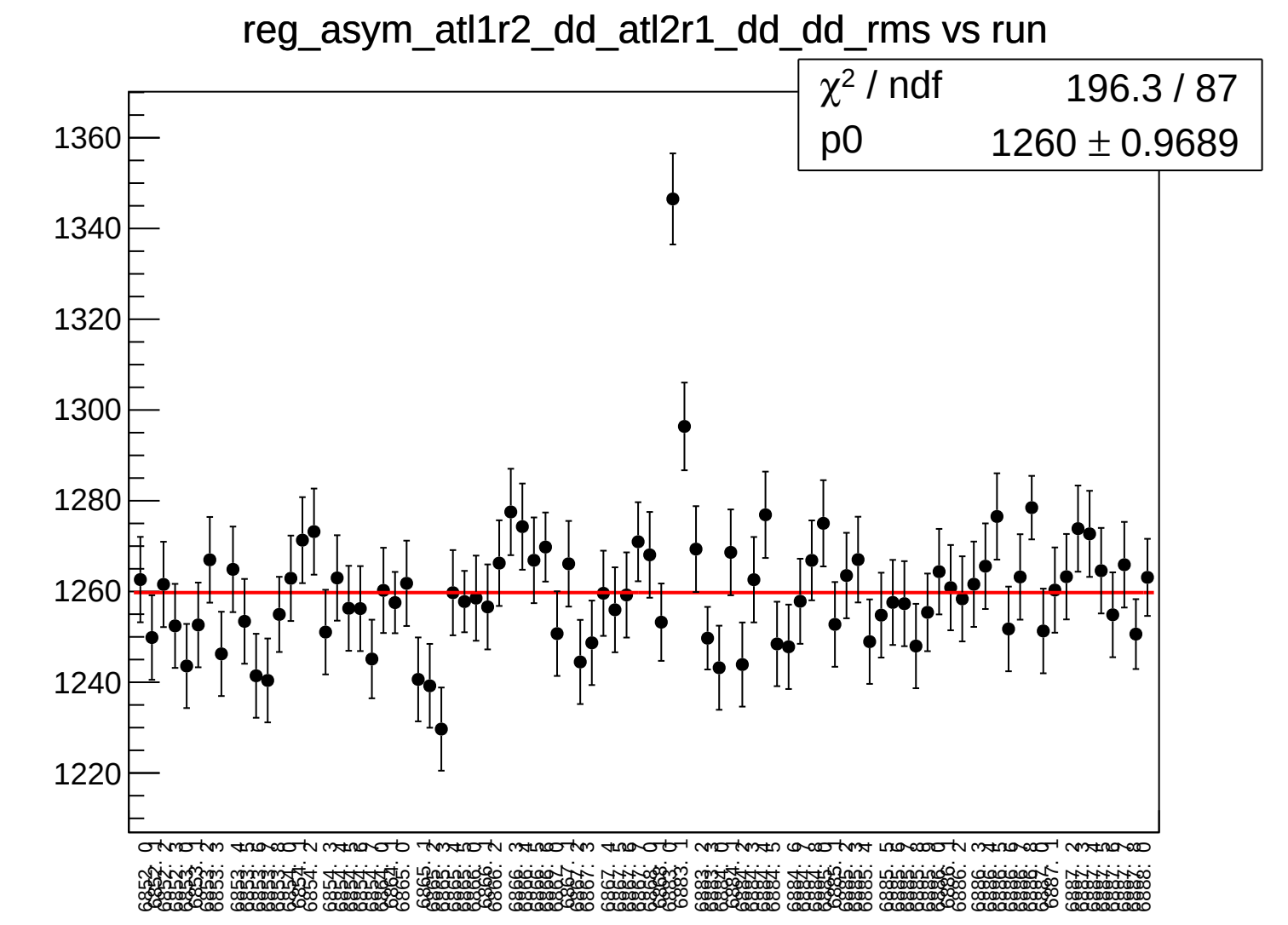

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 87
p0 306.6 ± 0.2367
440
420
400
380
360
340
320
300
280
260
240

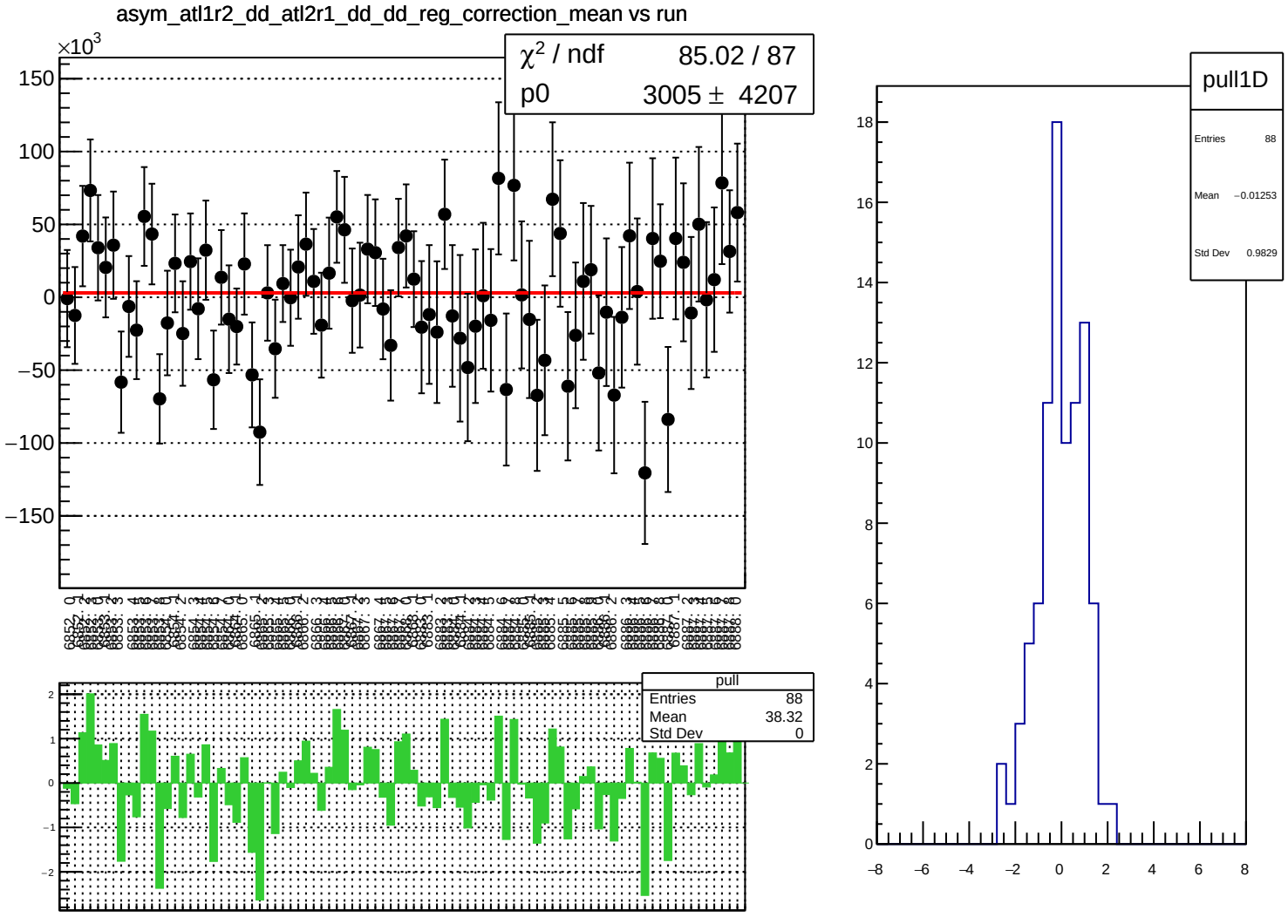

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 60.65 / 87
p0 −4.745e−15 ± 9.075e−14
pull
Entries 88
Mean −0.8999
Std Dev 0

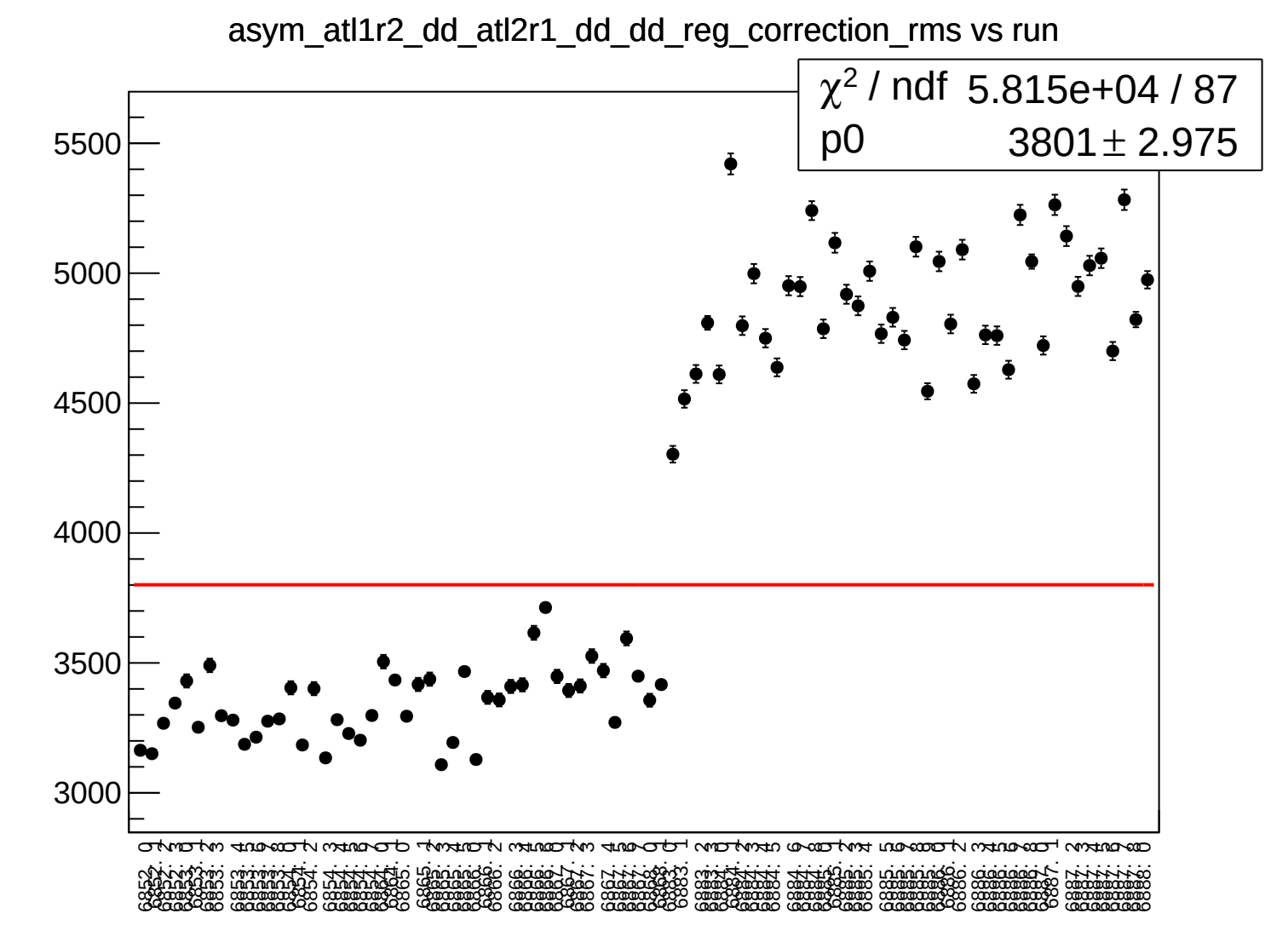

pull1D
Entries 88
Mean 0.03676
Std Dev 0.8294

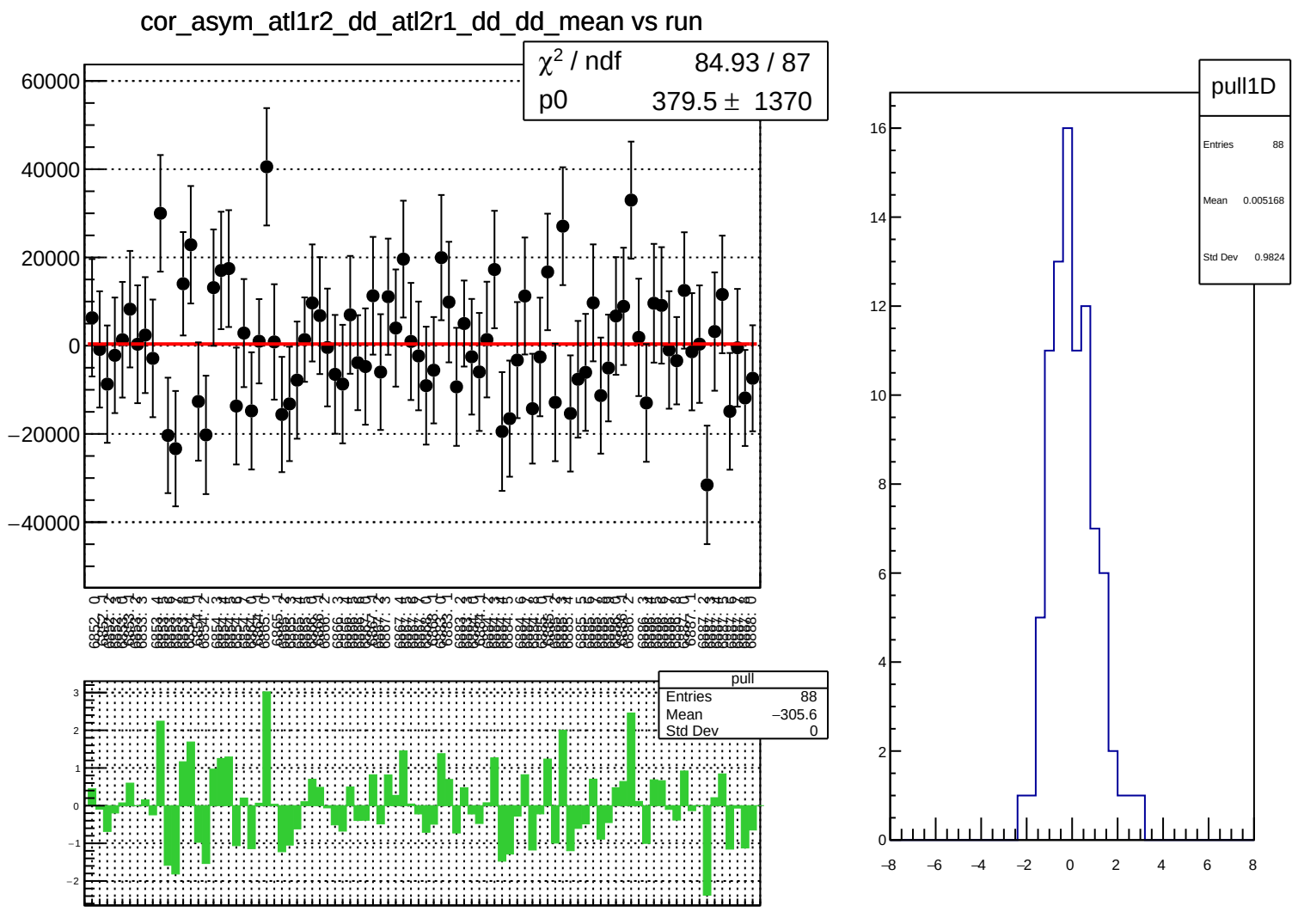

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.113e+05 / 87
p0 6.667e−11 ± 6.417e−14
0.5
0.4
0.3
0.2
0.1

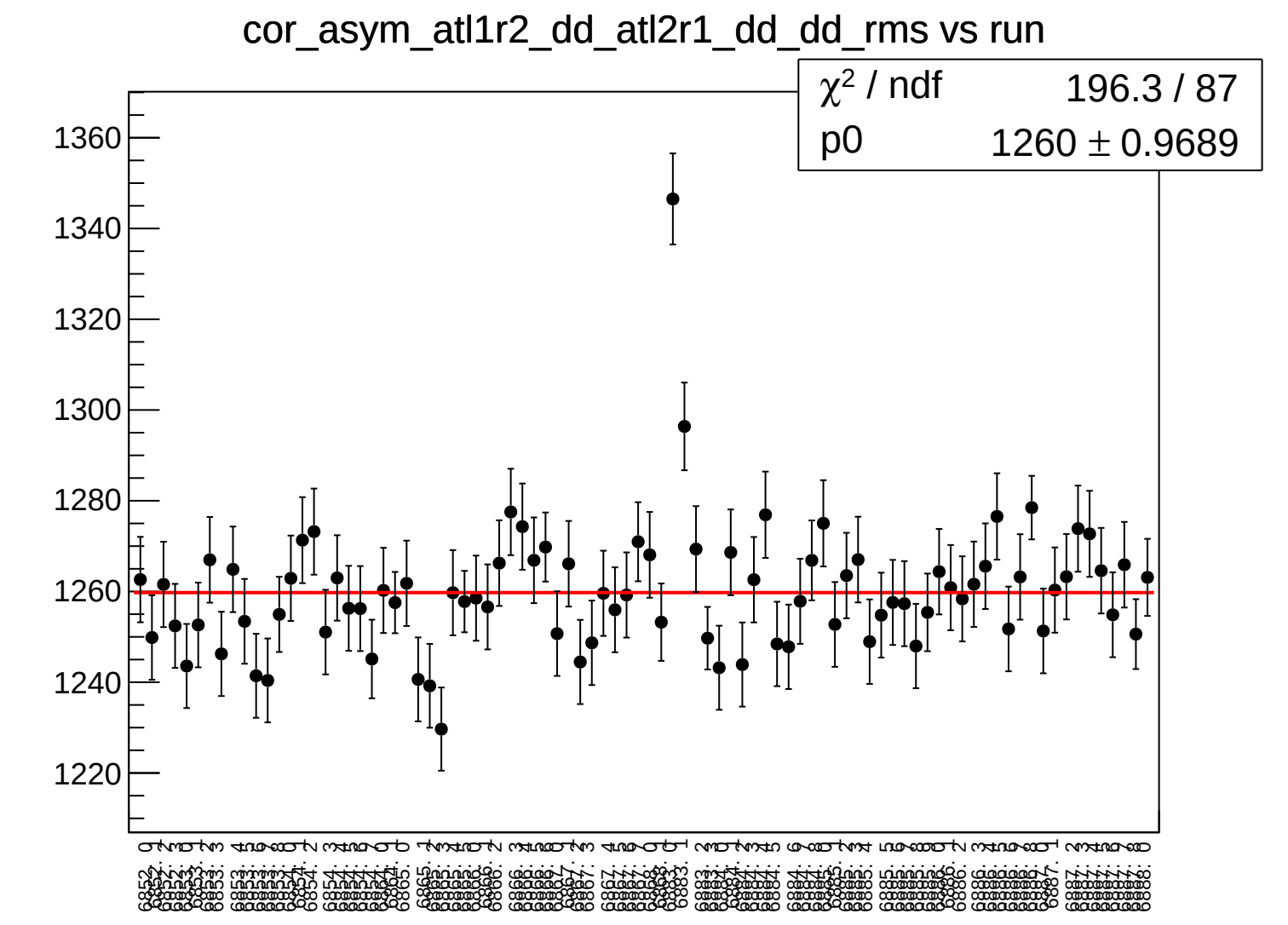

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 84.93 / 87
p0 379.1 ± 1370
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −305.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.005169
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

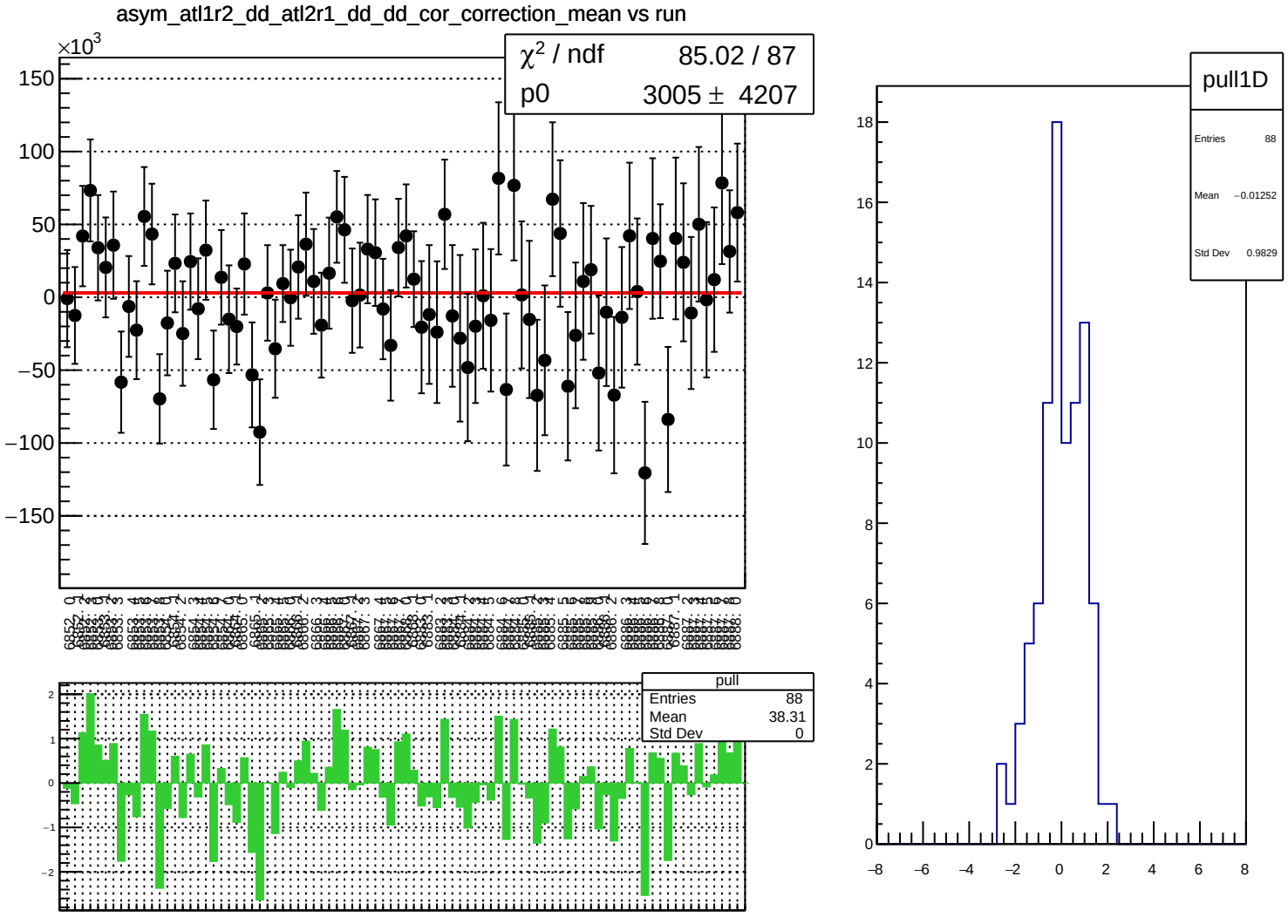

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 196.3 / 87
p0 1260 ± 0.9689
1360
1340
1320
1300
1280
1260
1240
1220

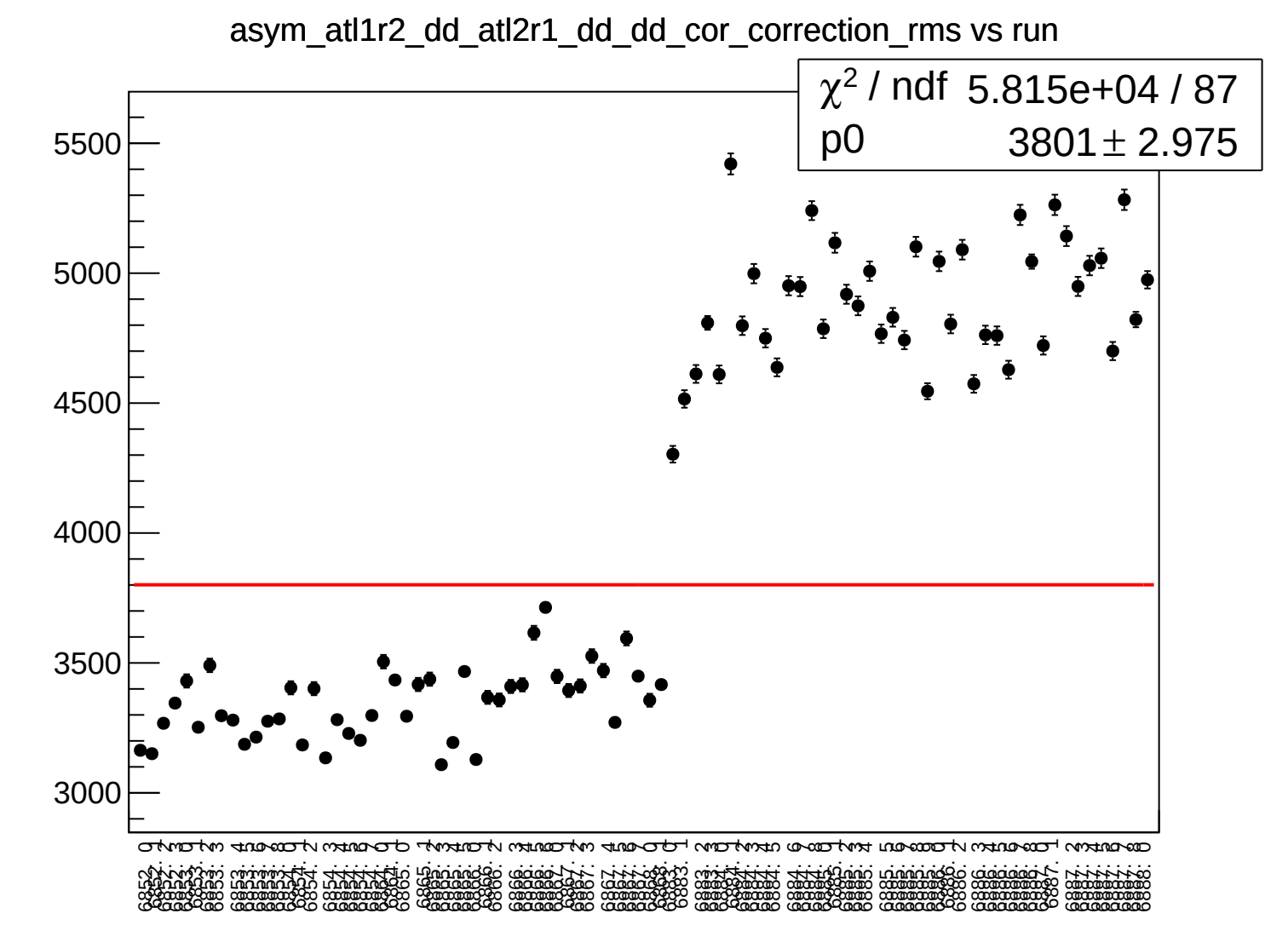

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.02 / 87
p0 3005 ± 4207
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 38.32
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01253
Std Dev 0.9829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

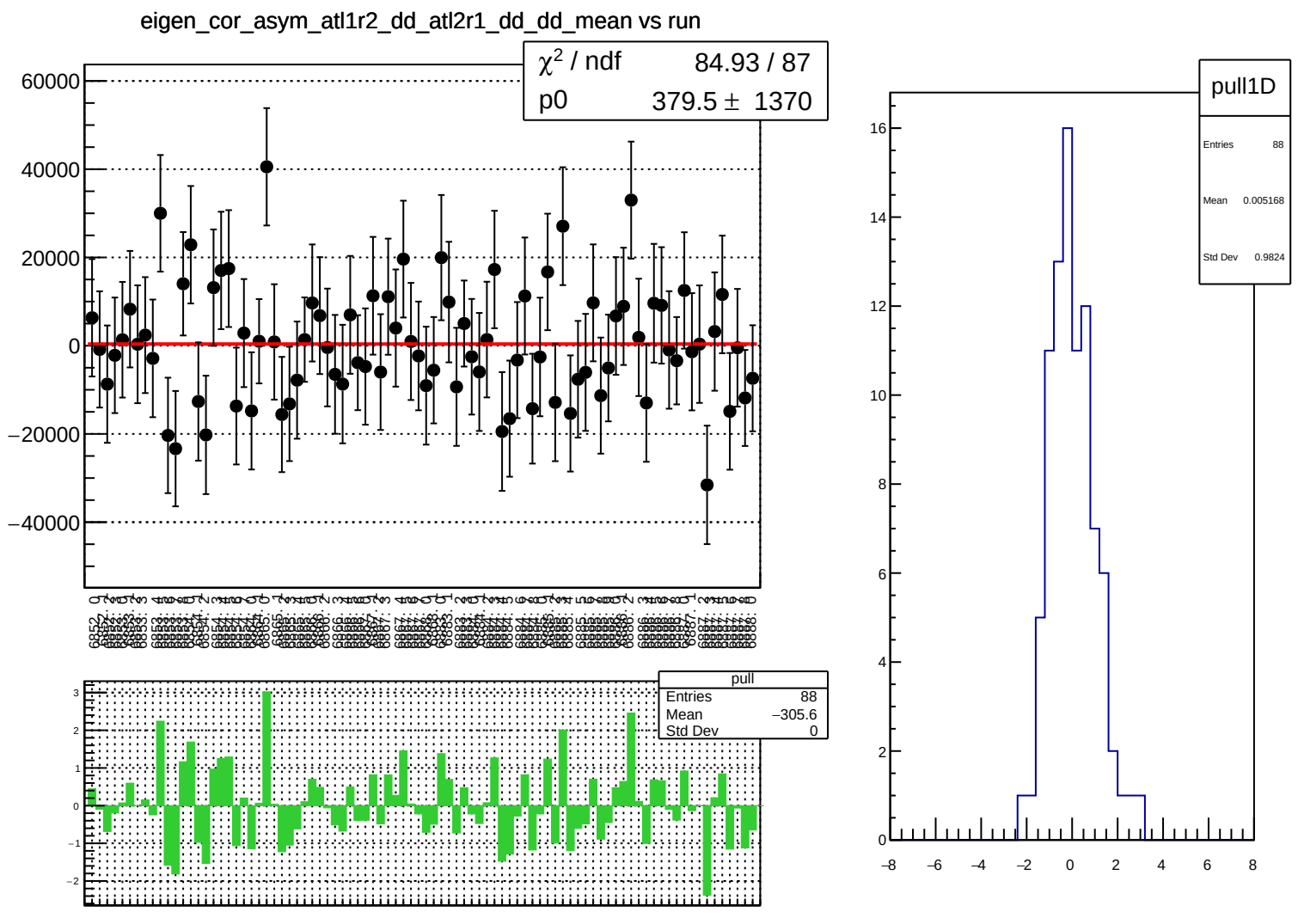

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 5.815e+04 / 87
p0 3801 ± 2.975
5500
5000
4500
4000
3500
3000

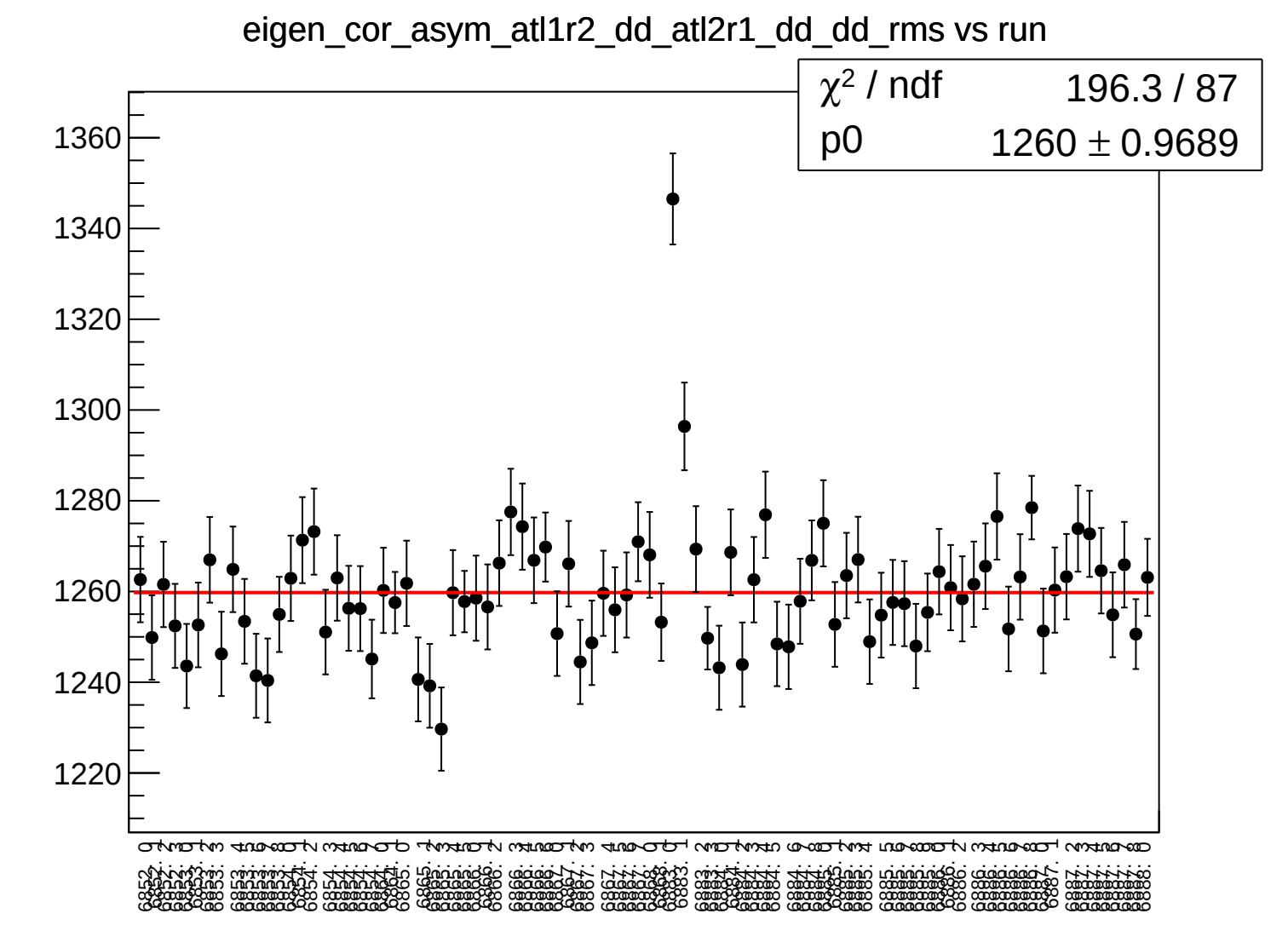

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 84.93 / 87
p0 379.5 ± 1370
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −305.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.005168
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

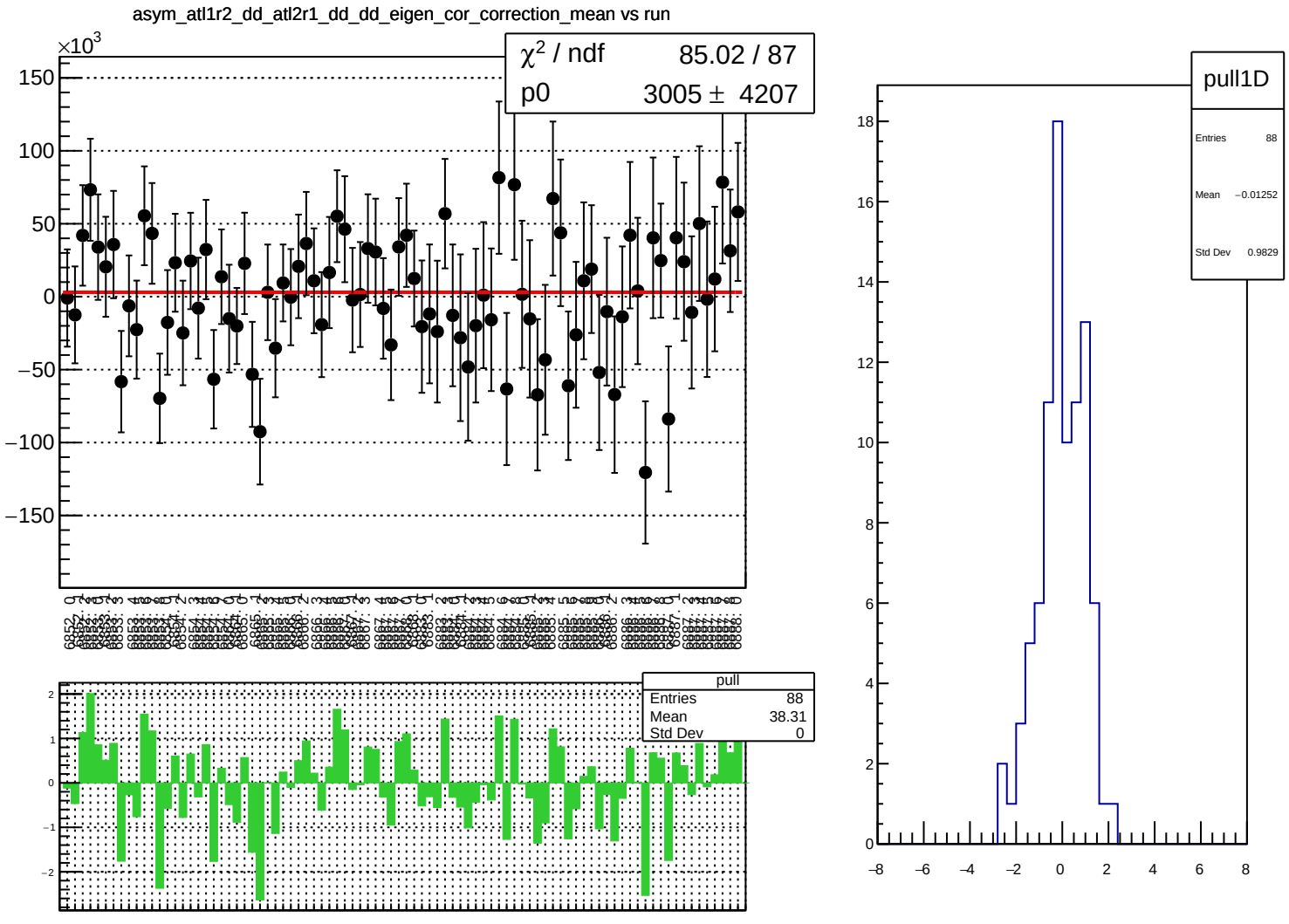

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 196.3 / 87
p0 1260 ± 0.9689
1360
1340
1320
1300
1280
1260
1240
1220

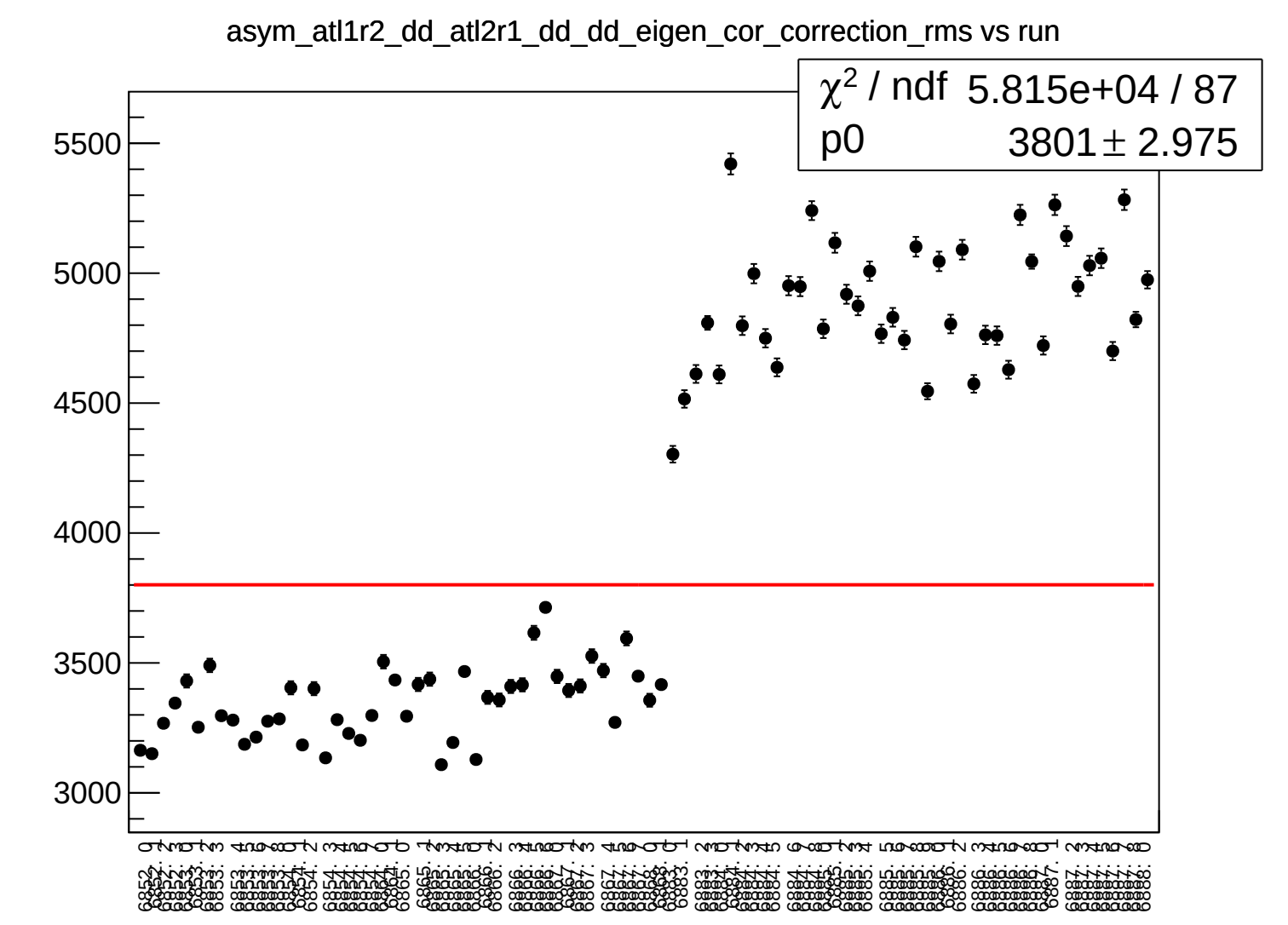

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.02 / 87
p0 3005 ± 4207
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 38.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01252
Std Dev 0.9829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

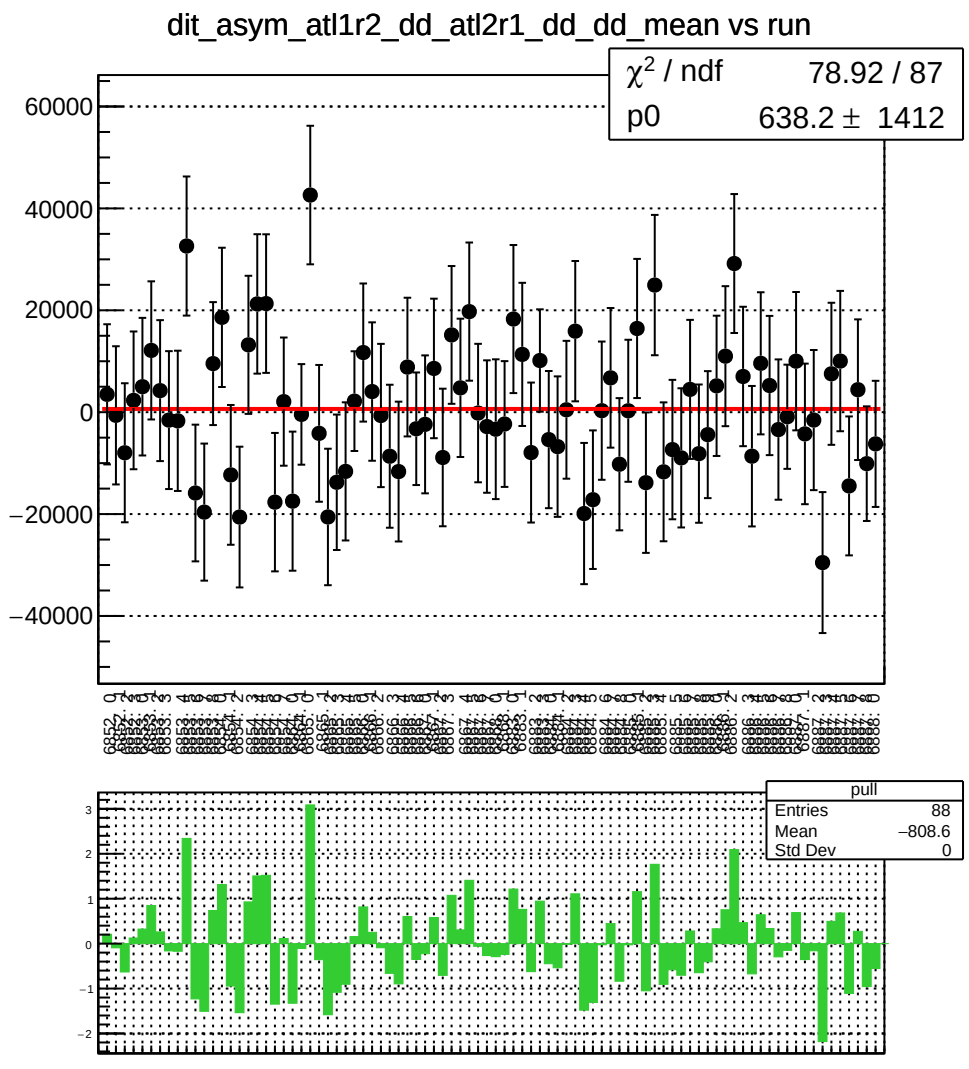

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 5.815e+04 / 87
p0 3801 ± 2.975
5500
5000
4500
4000
3500
3000

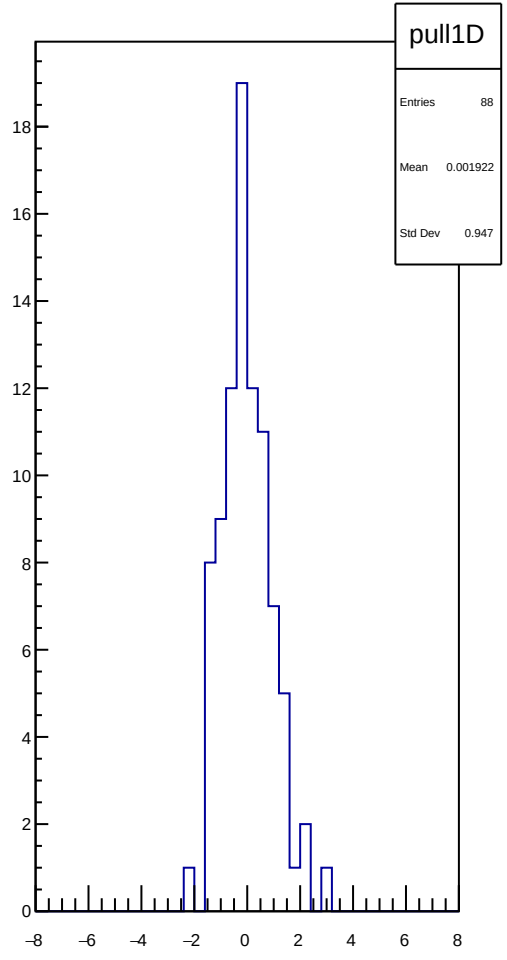

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 84.93 / 87
p0 379.5 ± 1370
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −305.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.005168
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

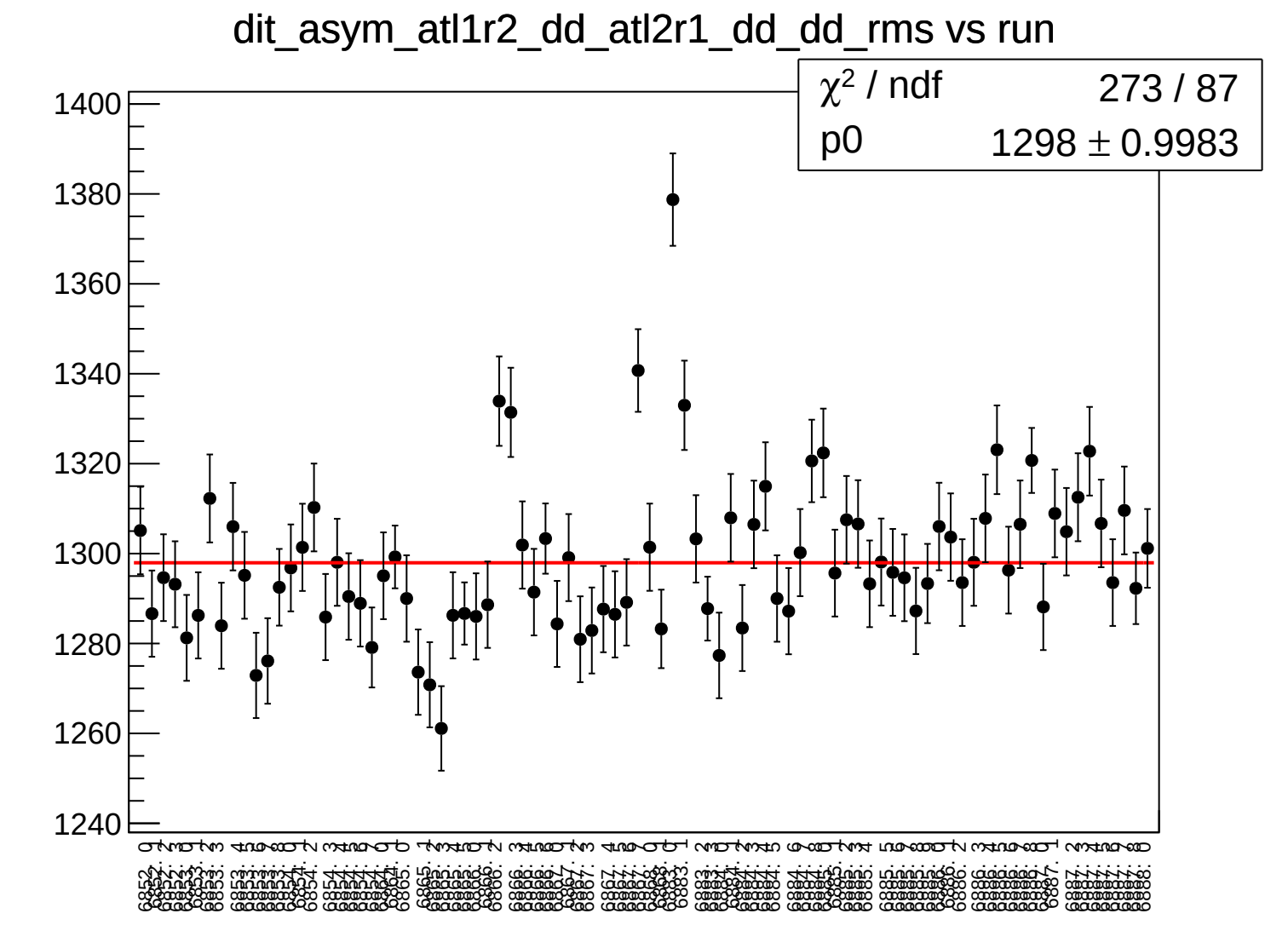

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 196.3 / 87
p0 1260 ± 0.9689
1360
1340
1320
1300
1280
1260
1240
1220

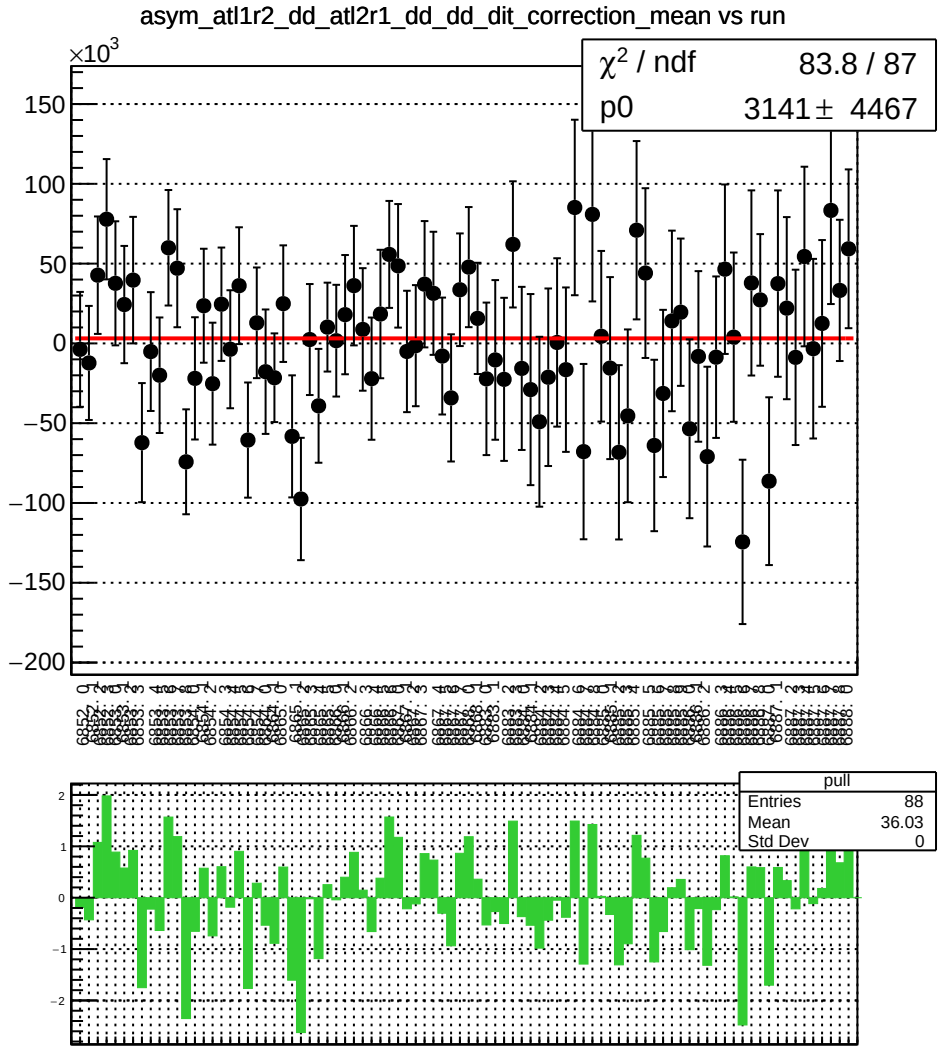

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.02 / 87
p0 3005 ± 4207
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 38.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01252
Std Dev 0.9829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

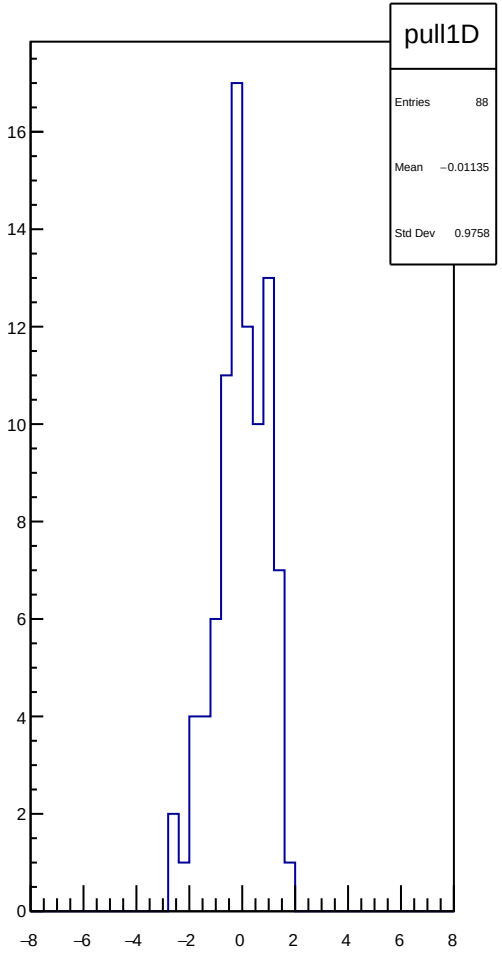

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.815e+04 / 87
p0 3801 ± 2.975
5500
5000
4500
4000
3500
3000

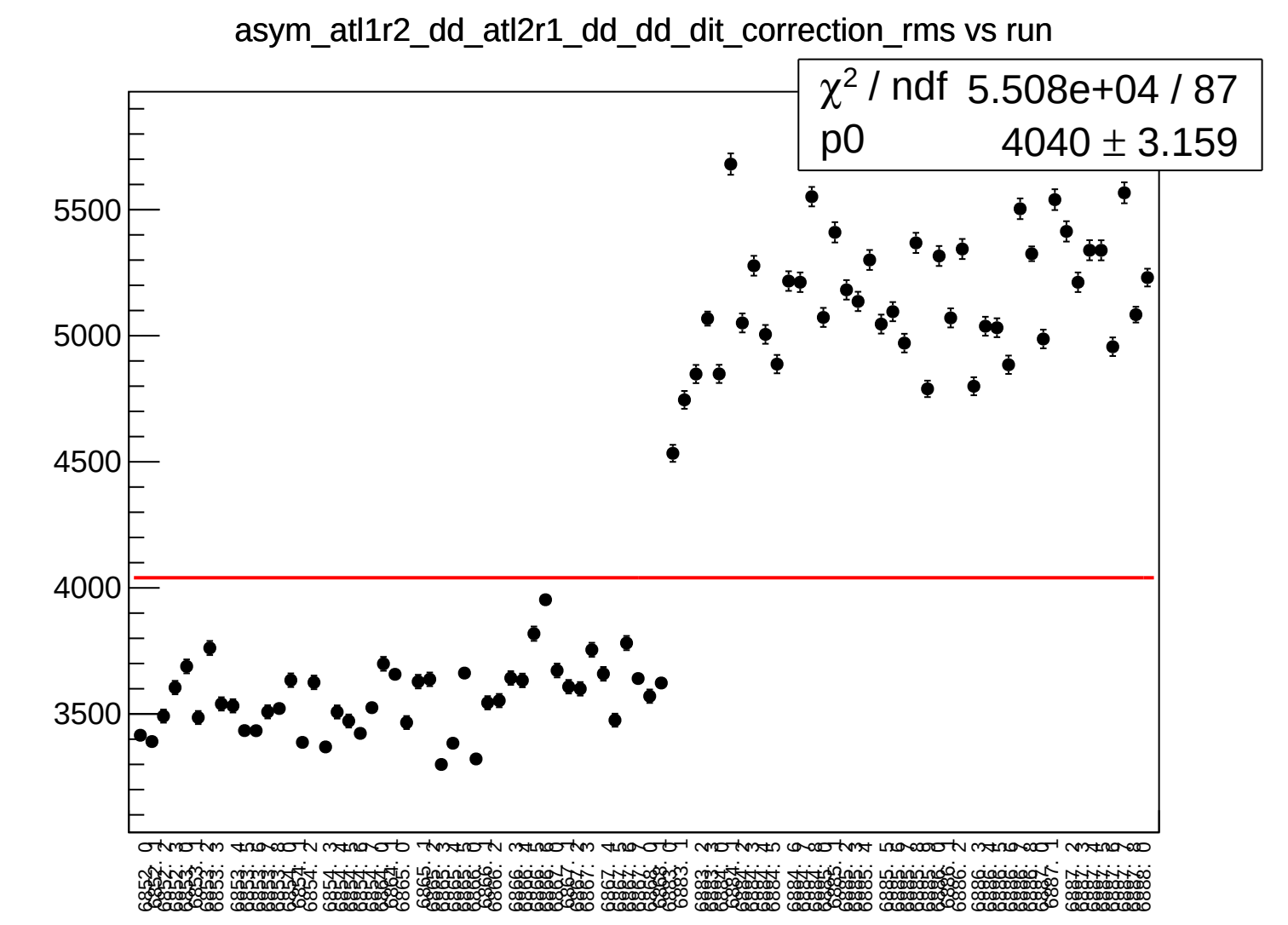

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 78.92 / 87
p0 638.2 ± 1412
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −808.6
Std Dev 0
3
2
1
0
−1
−2

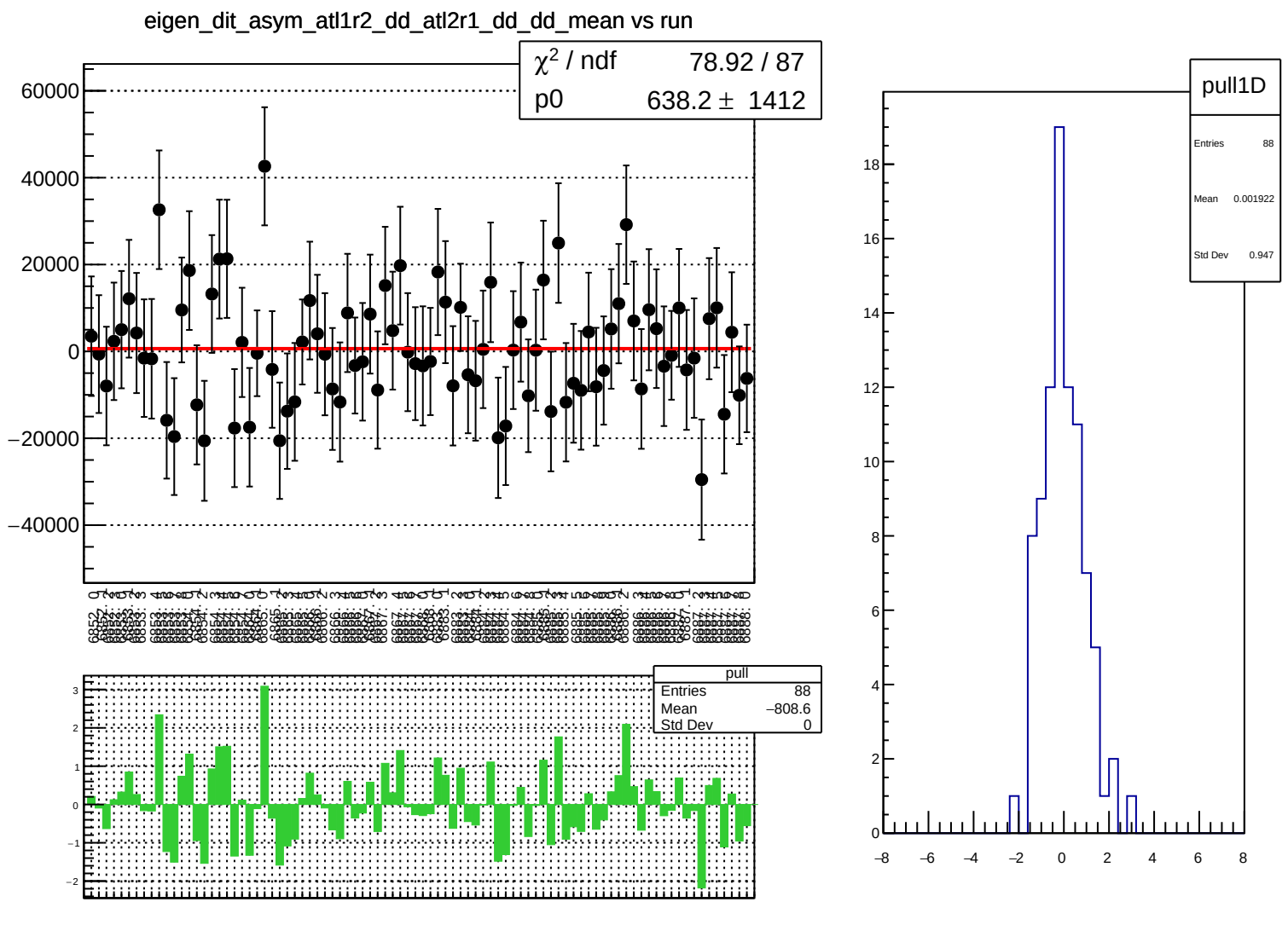

pull1D
Entries 88
Mean 0.001922
Std Dev 0.947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

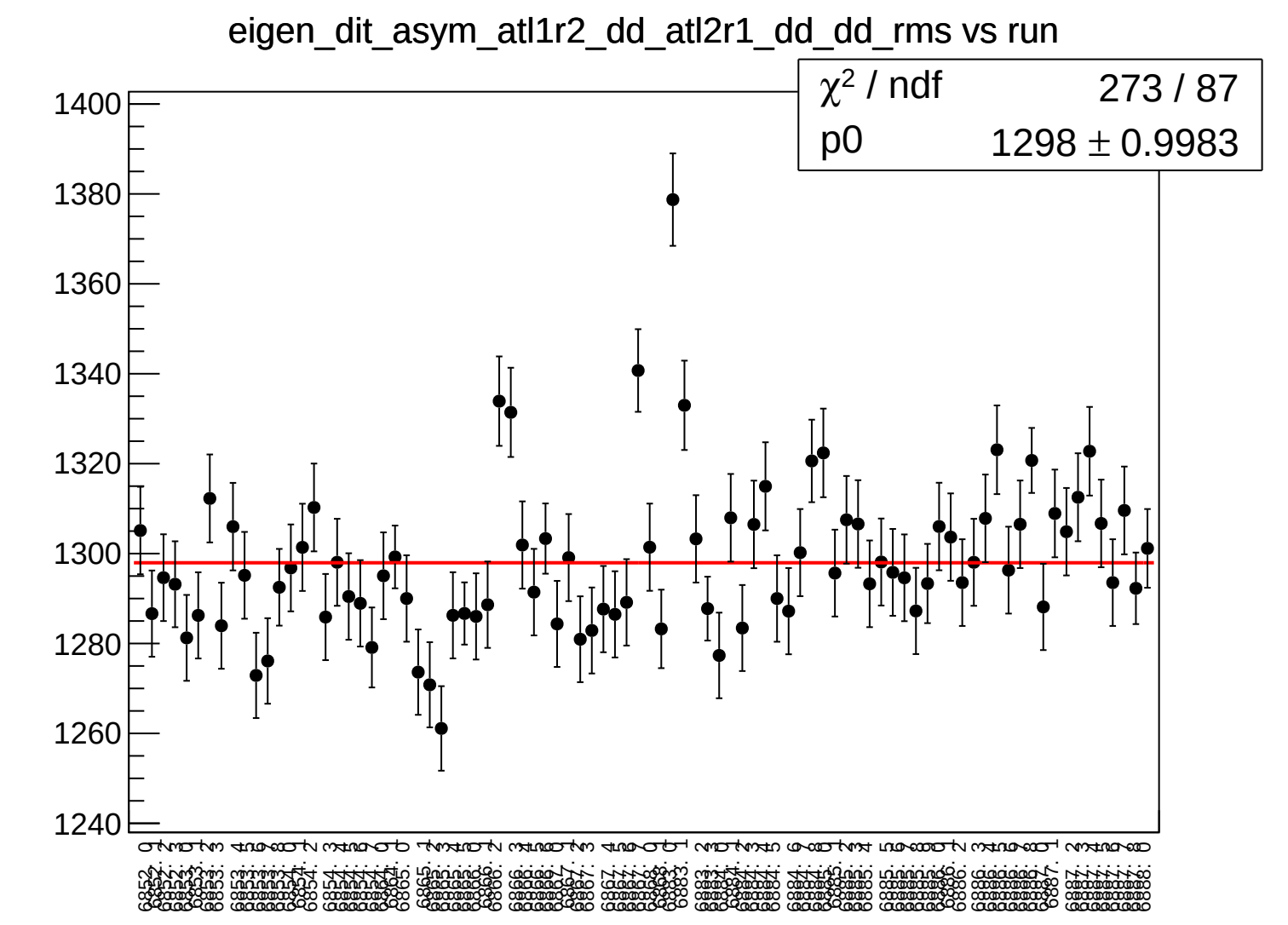

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 273 / 87
p0 1298 ± 0.9983
1400
1380
1360
1340
1320
1300
1280
1260
1240

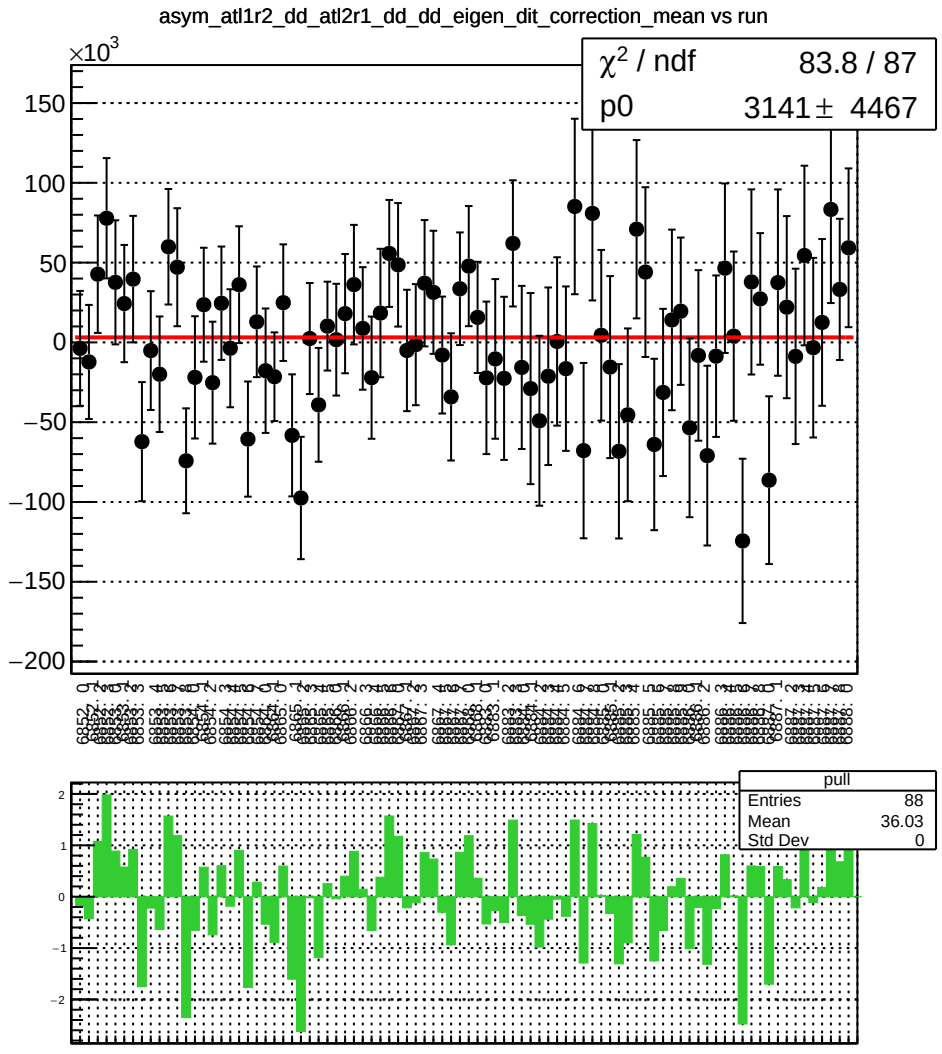

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 83.8 / 87
p0 3141 ± 4467
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 36.03
Std Dev 0
2
1
0
−1
−2

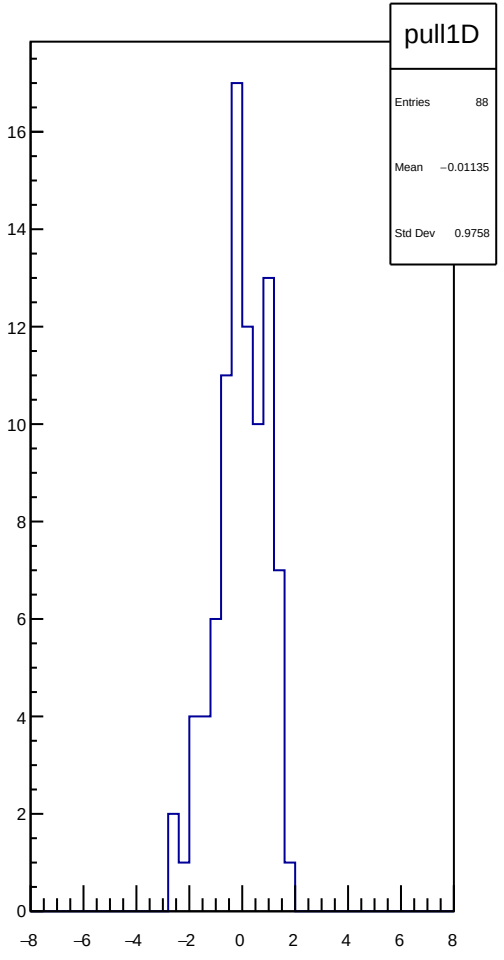

pull1D
Entries 88
Mean −0.01135
Std Dev 0.9758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 5.508e+04 / 87
p0 4040 ± 3.159
5500
5000
4500
4000
3500


eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 78.92 / 87
p0 638.2 ± 1412
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −808.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001922
Std Dev 0.947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 273 / 87
p0 1298 ± 0.9983
1400
1380
1360
1340
1320
1300
1280
1260
1240


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.8 / 87
p0 3141 ± 4467
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 36.03
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.01135
Std Dev 0.9758
16
14
12
10
8
6
4
2
0
−8
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−4
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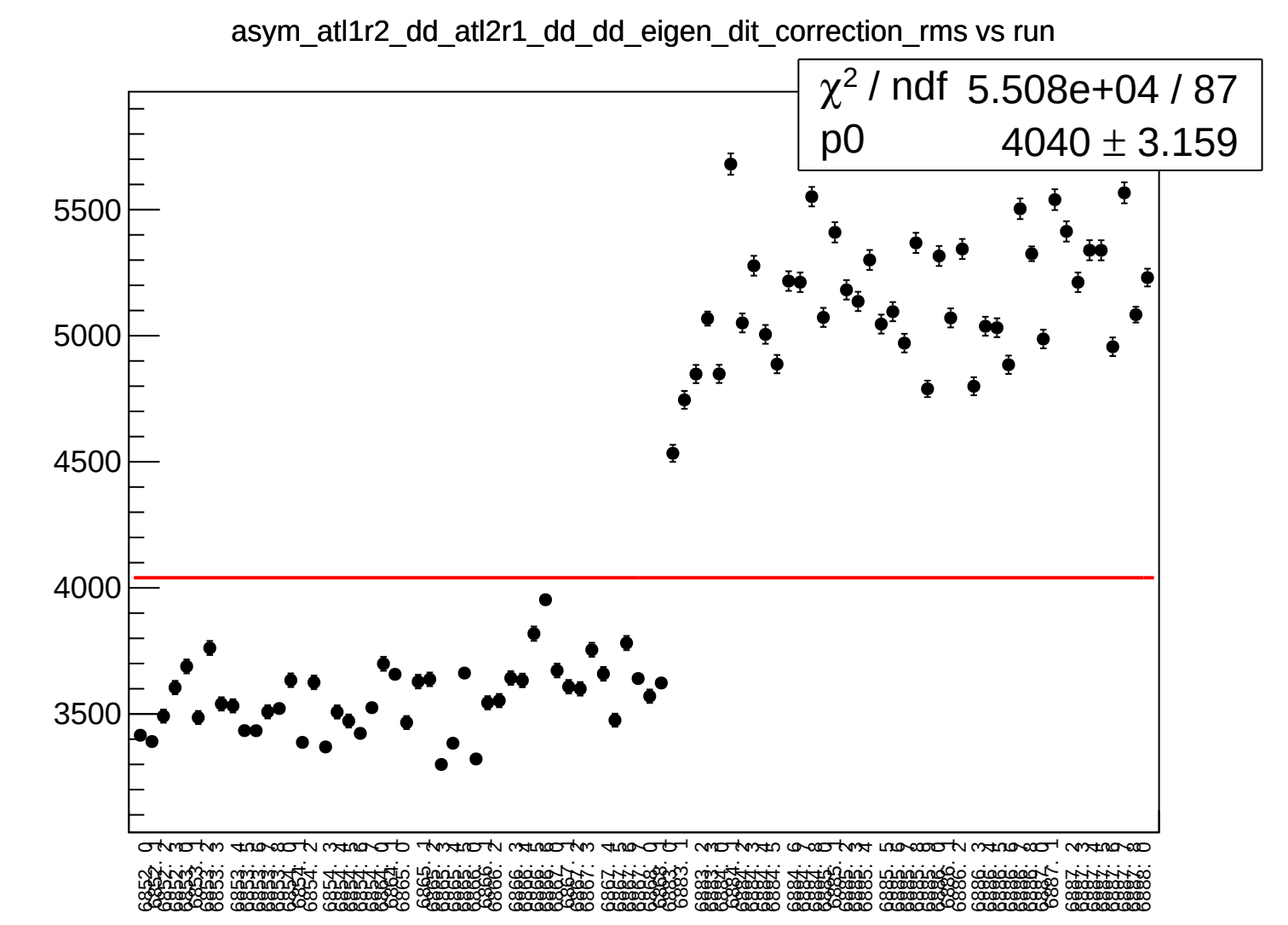
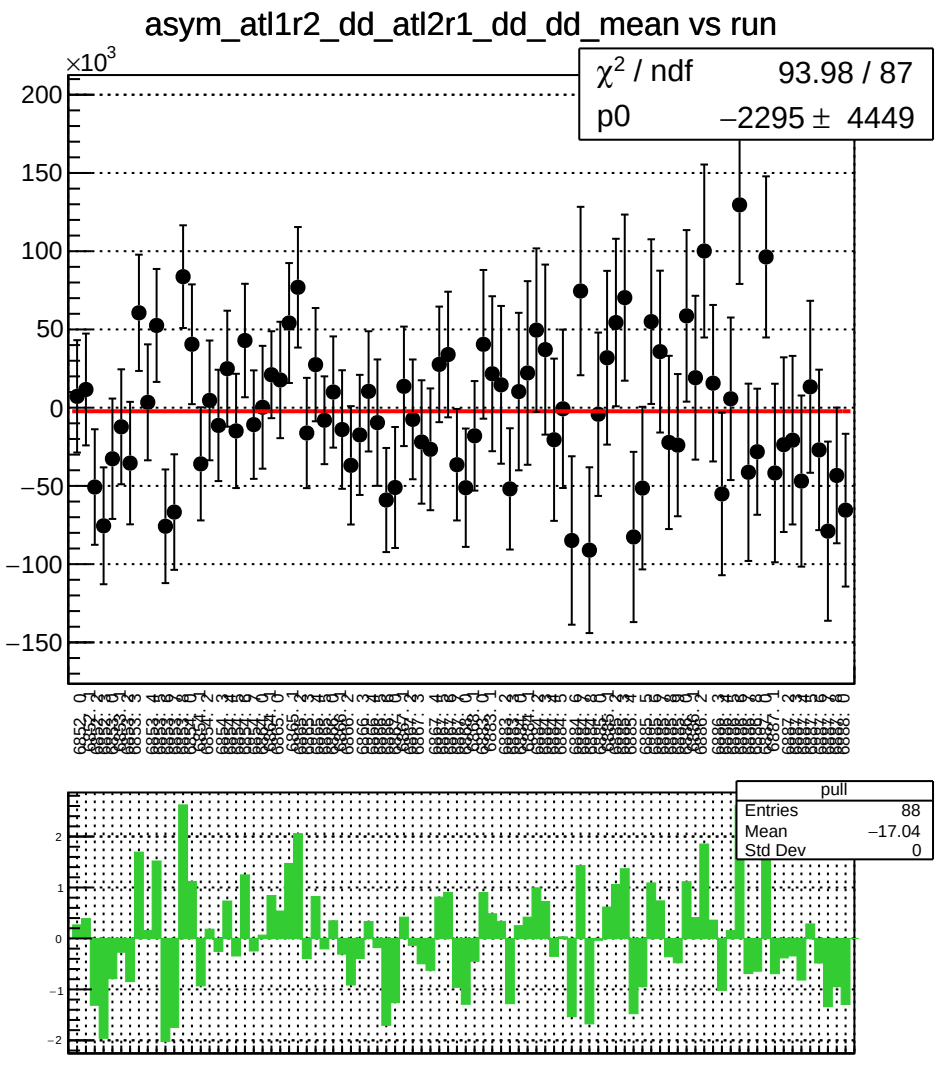
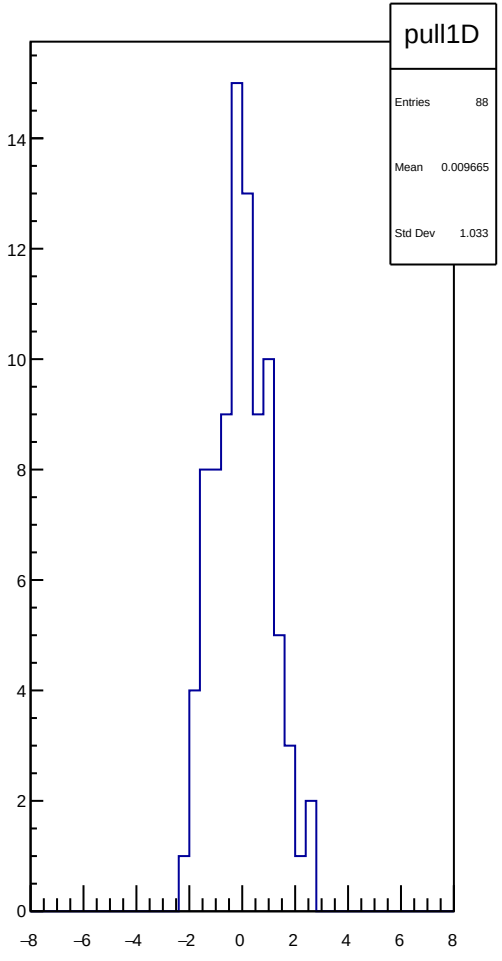
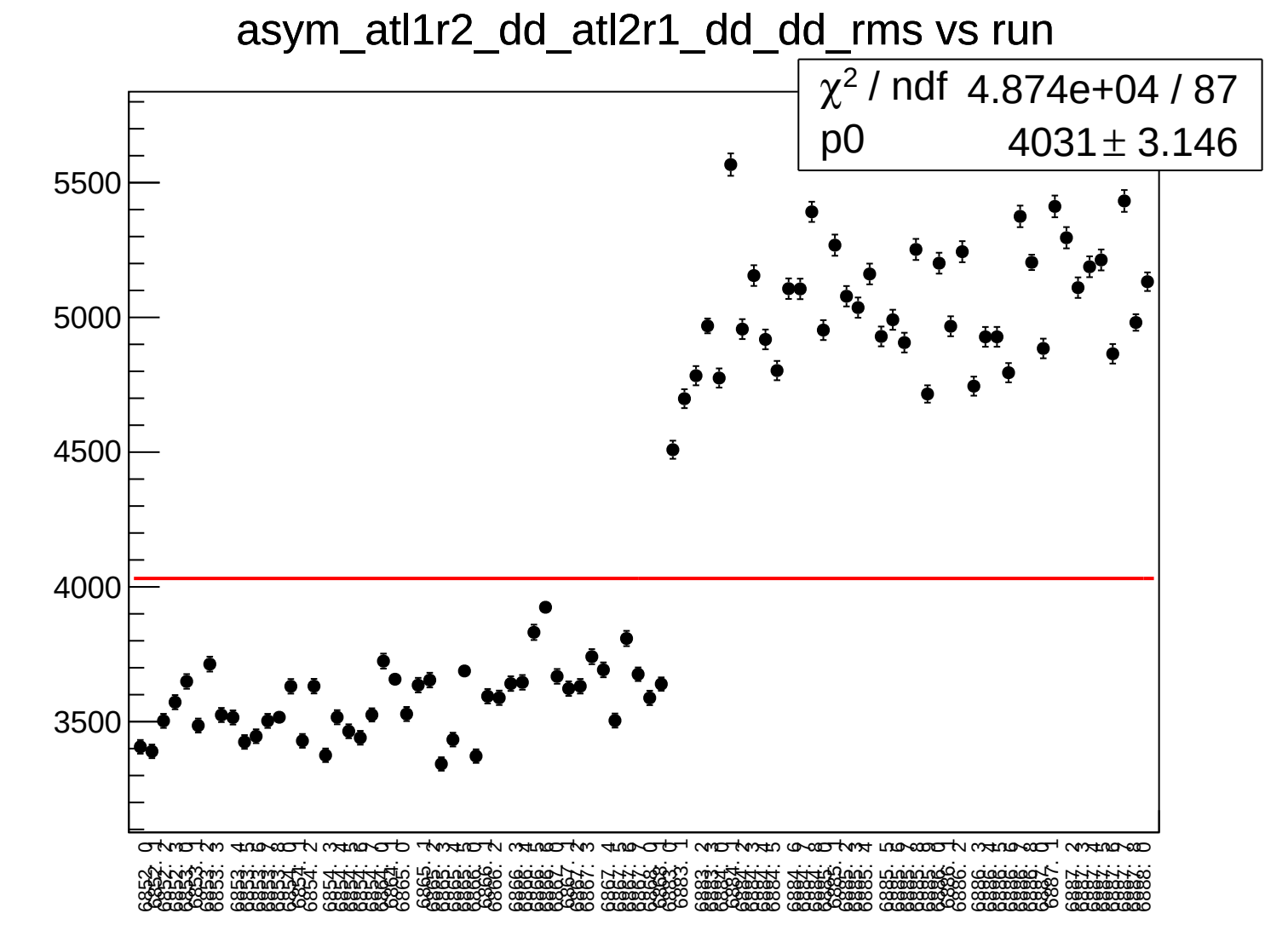
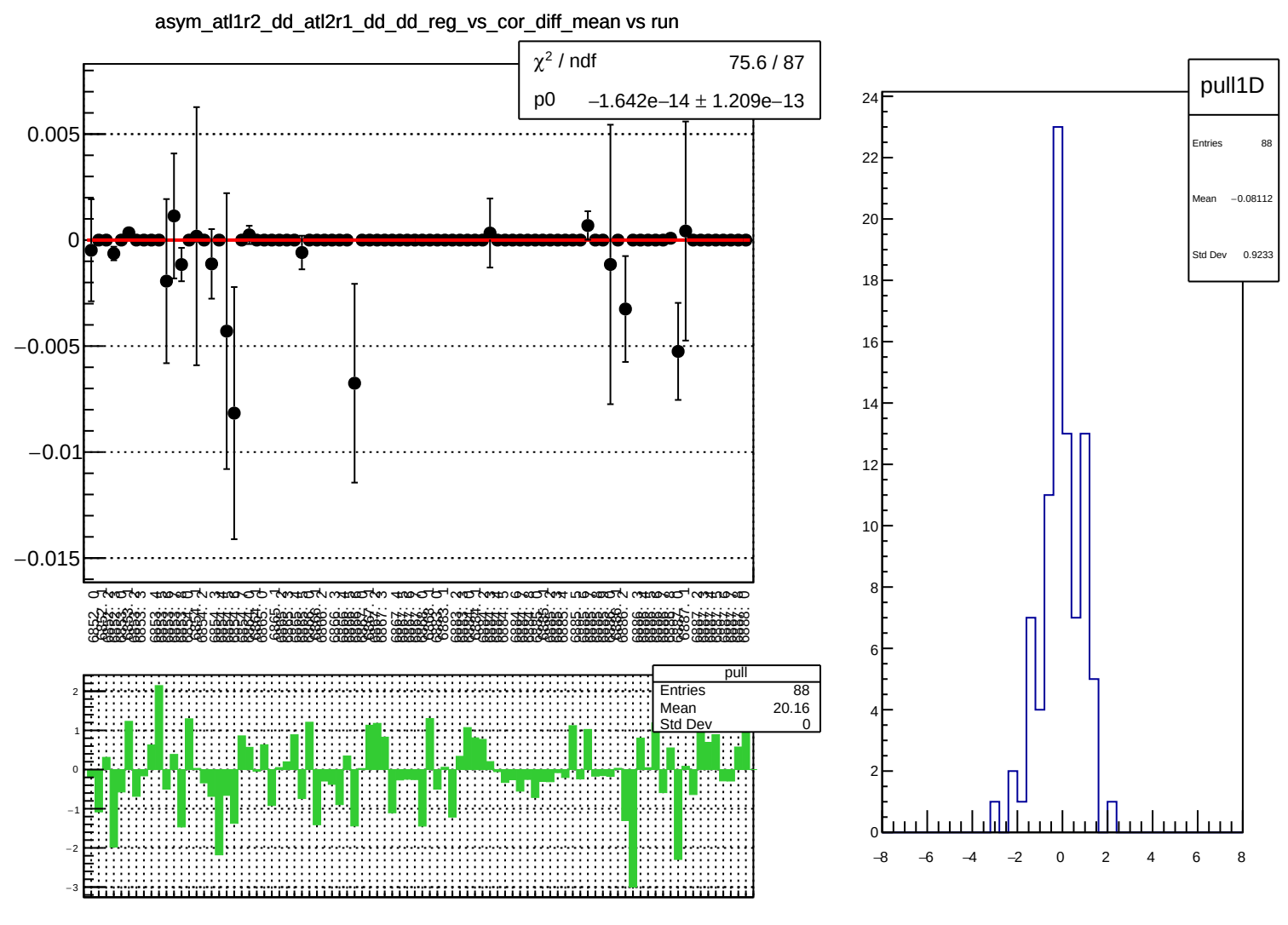
0
2
4
6
8

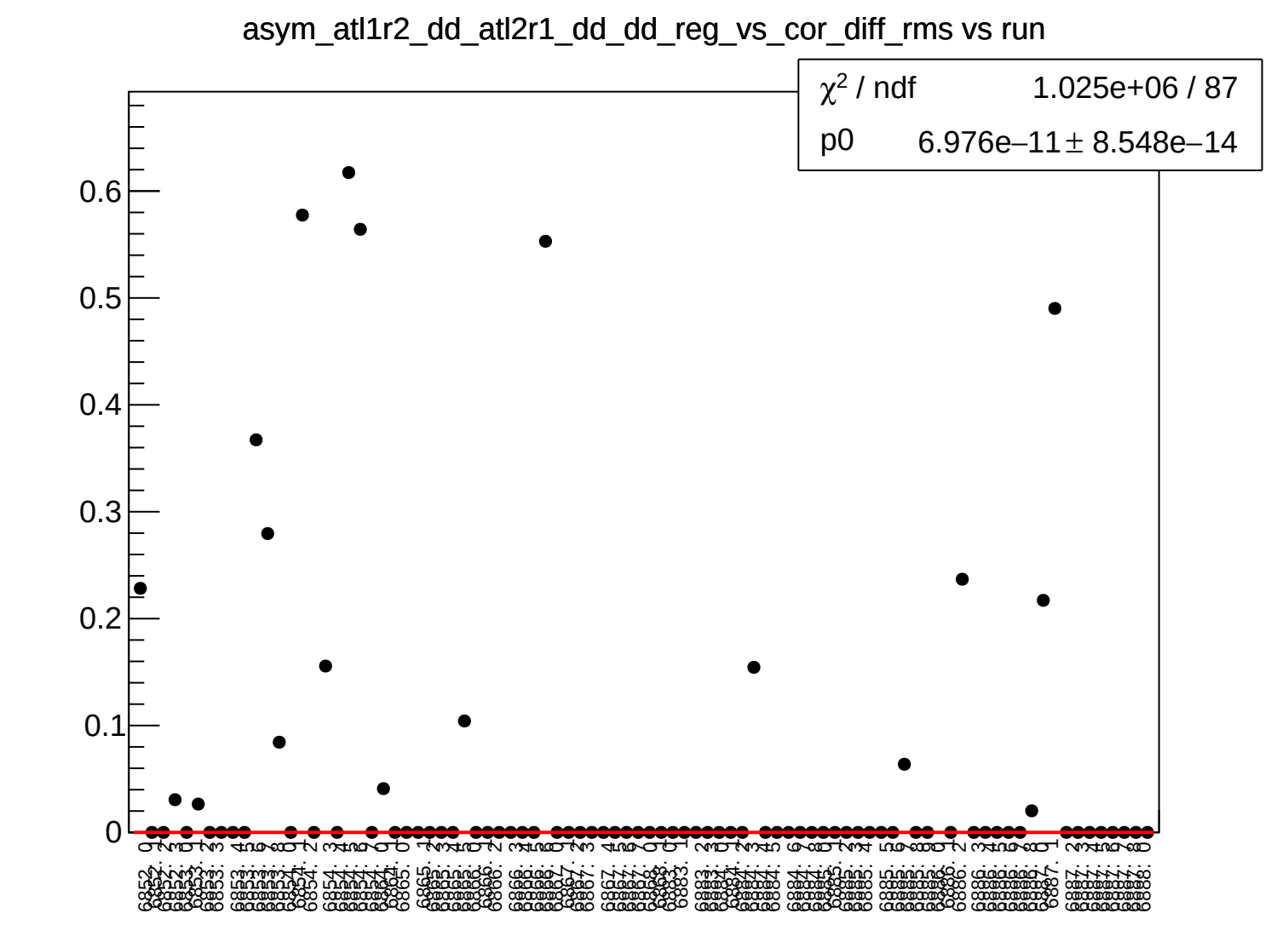

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.508e+04 / 87
p0 4040 ± 3.159
5500
5000
4500
4000
3500


asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 93.98 / 87
p0 −2295 ± 4449
pull
Entries 88
Mean −17.04
Std Dev 0

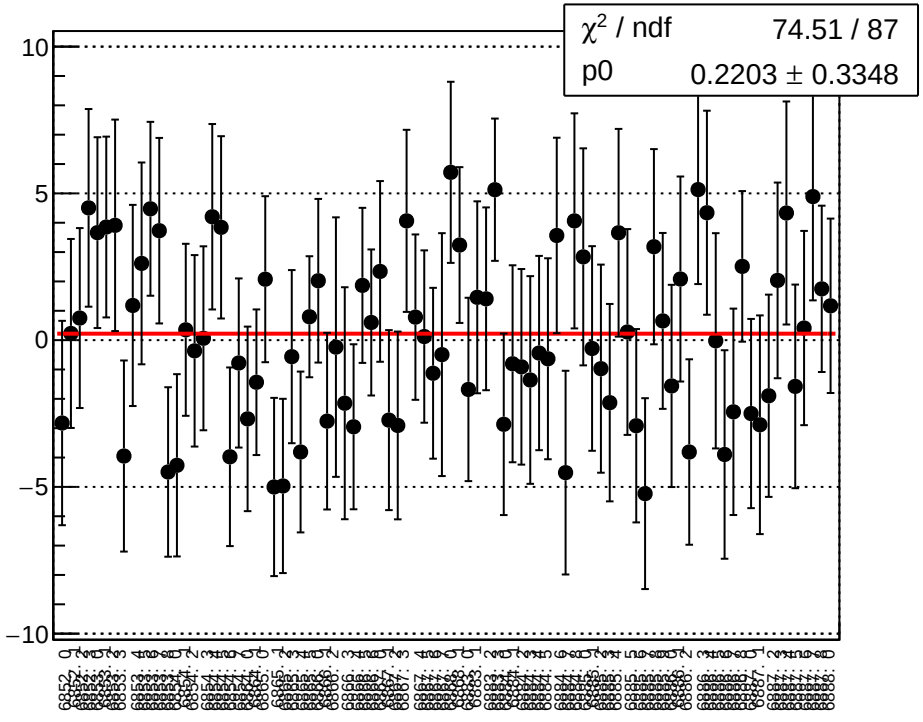

pull1D
Entries 88
Mean 0.009665
Std Dev 1.033

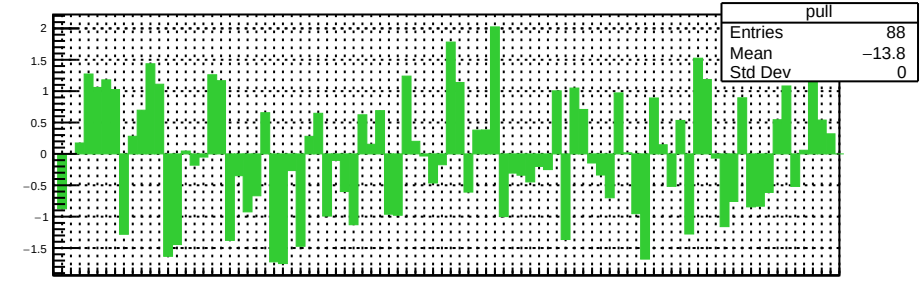

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 4.874e+04 / 87
p0 4031 ± 3.146
5500
5000
4500
4000
3500

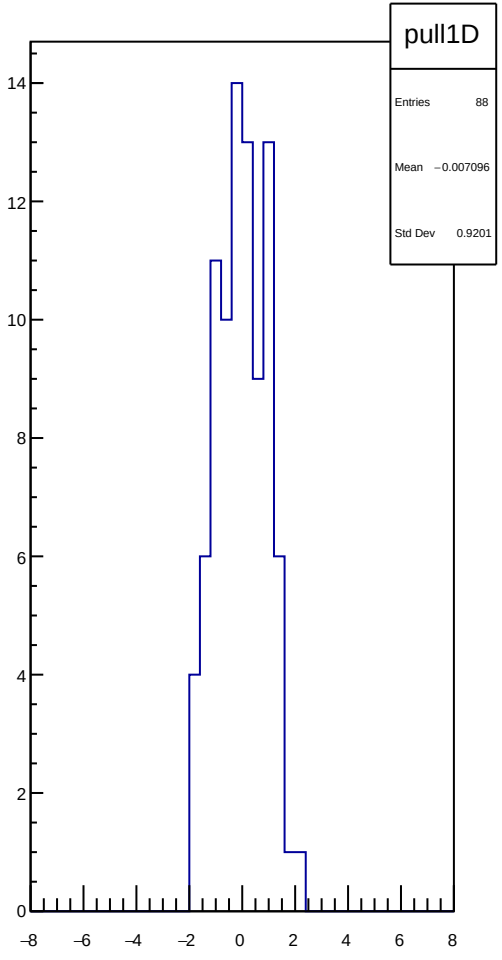

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.6 / 87
p0 −1.642e−14 ± 1.209e−13
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 20.16
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.08112
Std Dev 0.9233
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

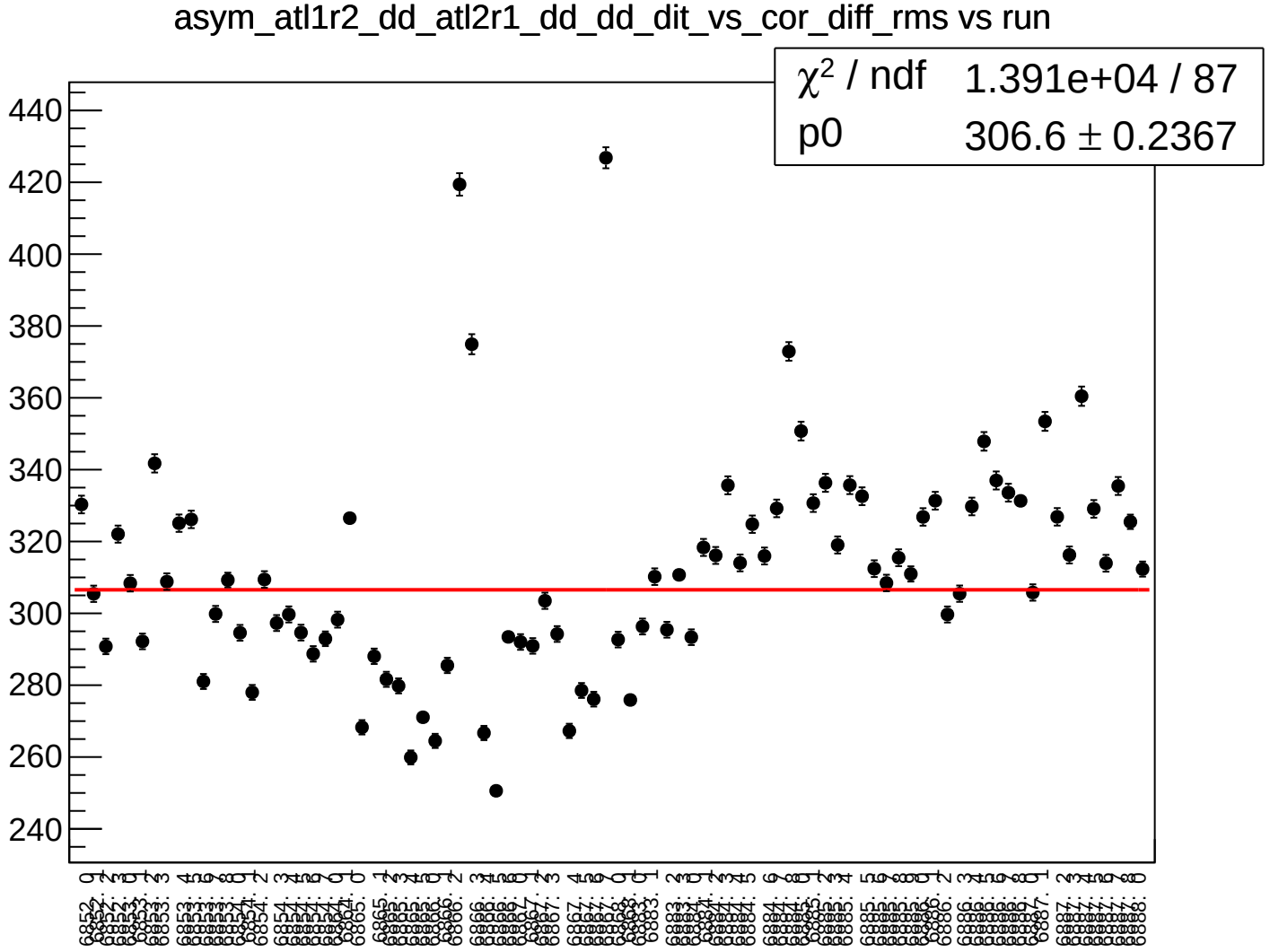

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.025e+06 / 87
p0 6.976e−11 ± 8.548e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

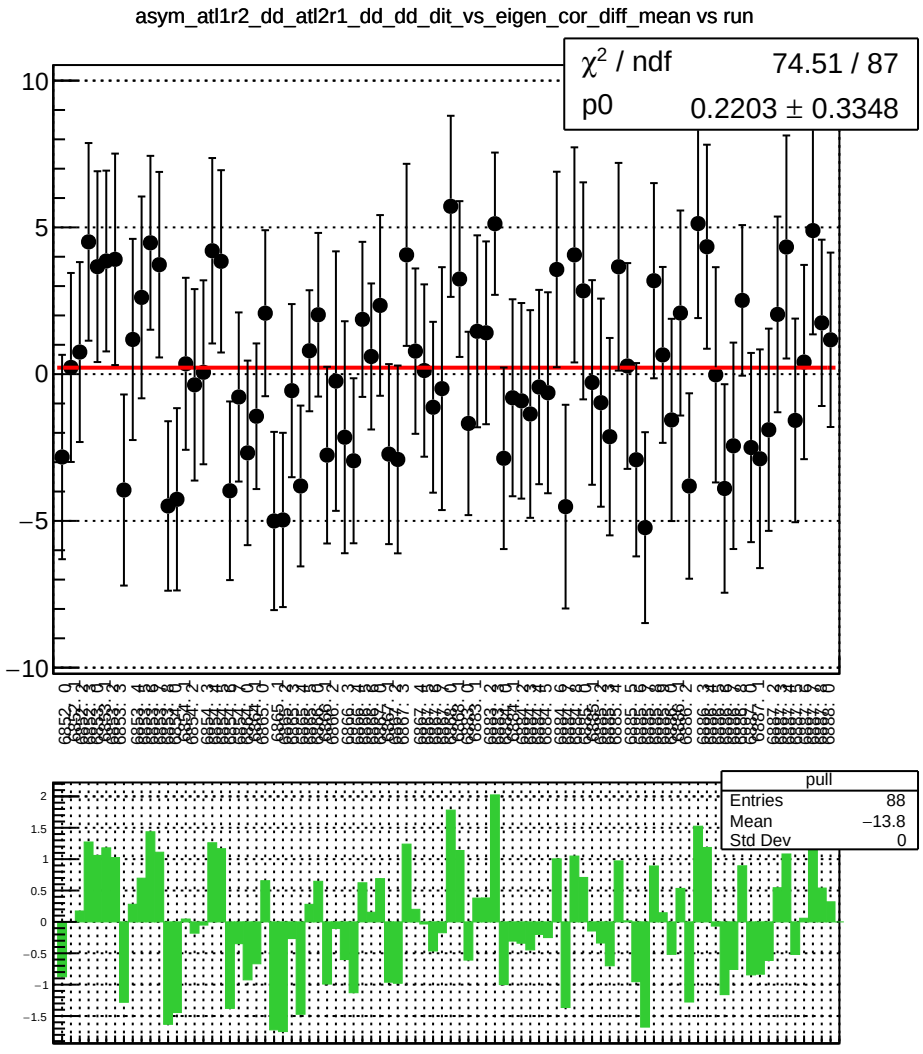
asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run

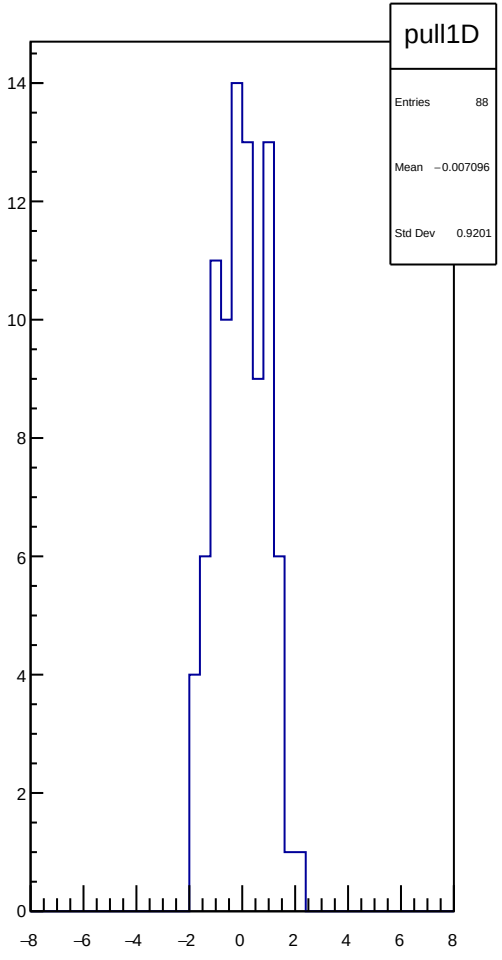


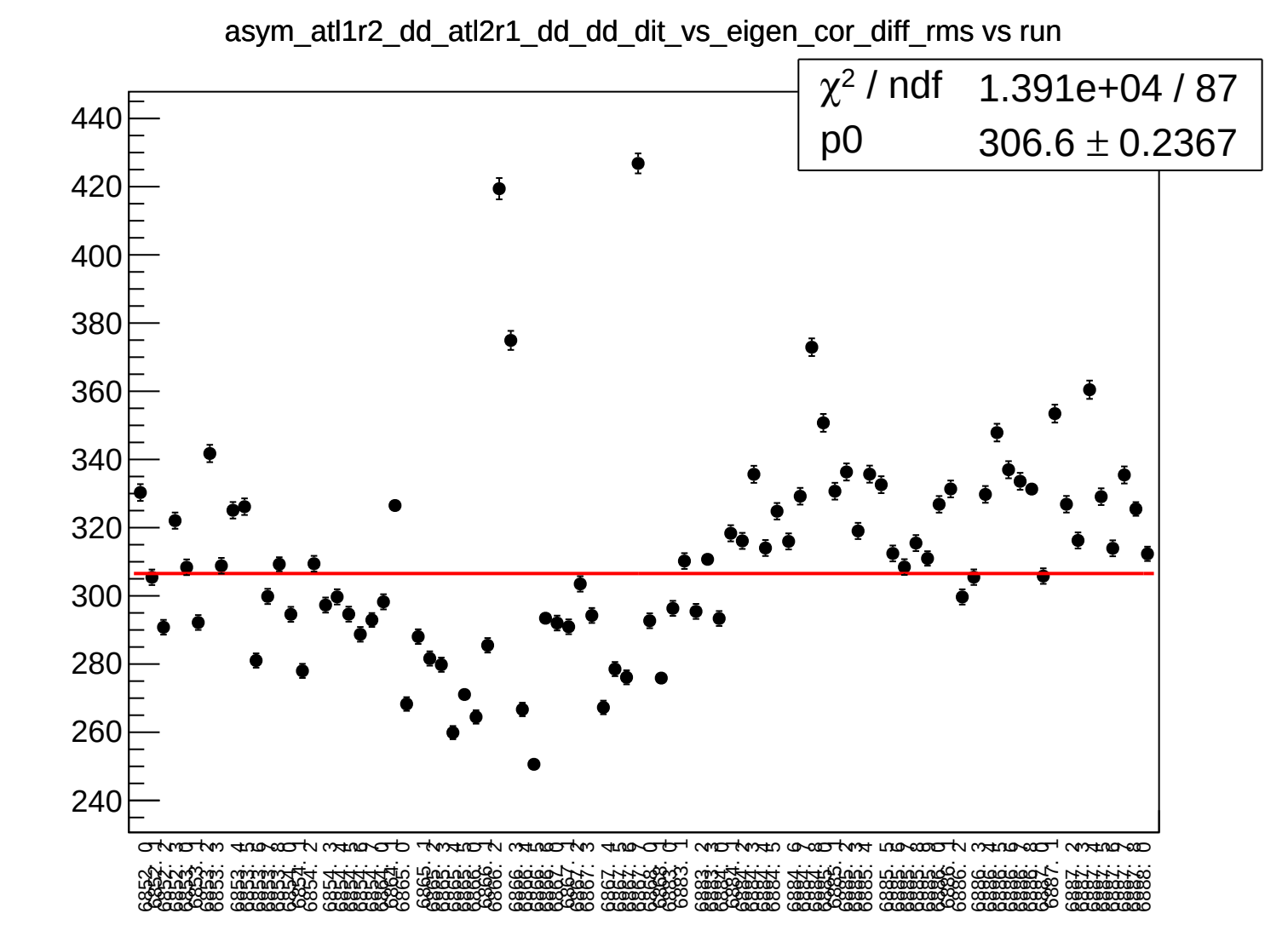


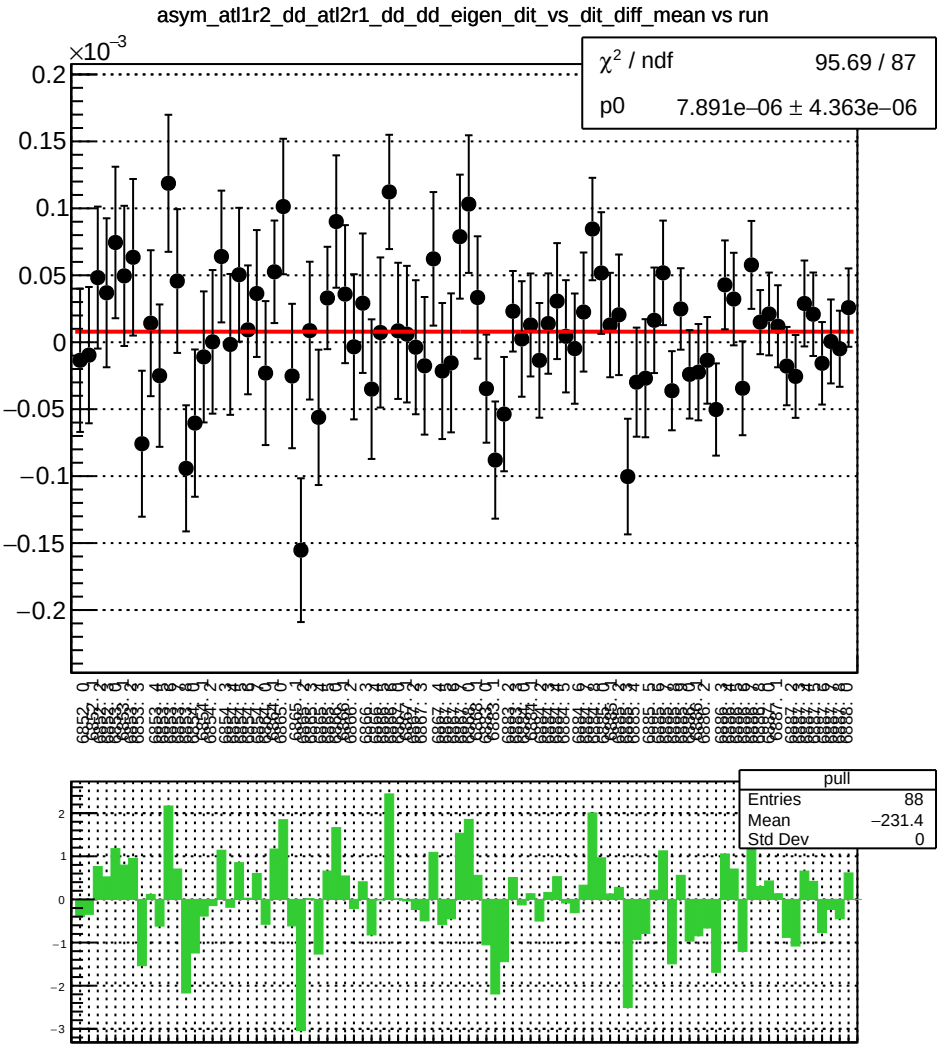


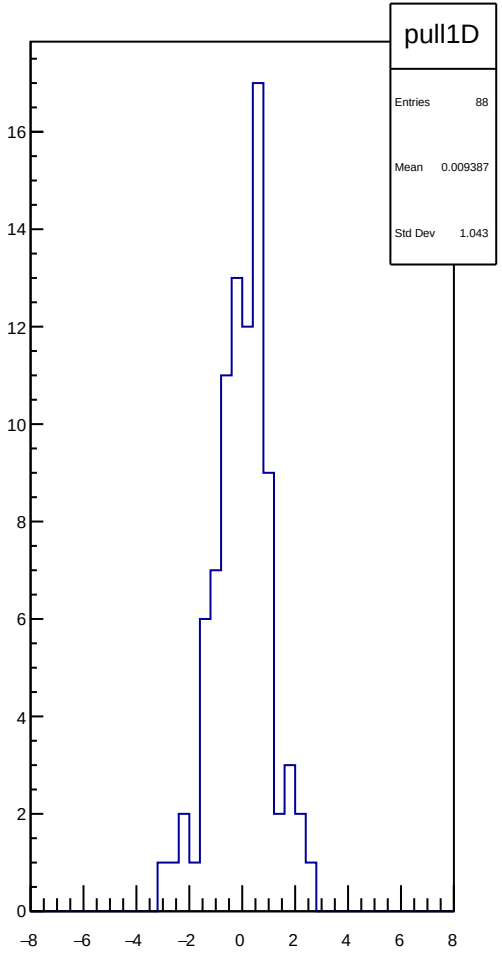

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 87
p0 306.6 ± 0.2367
440
420
400
380
360
340
320
300
280
260
240

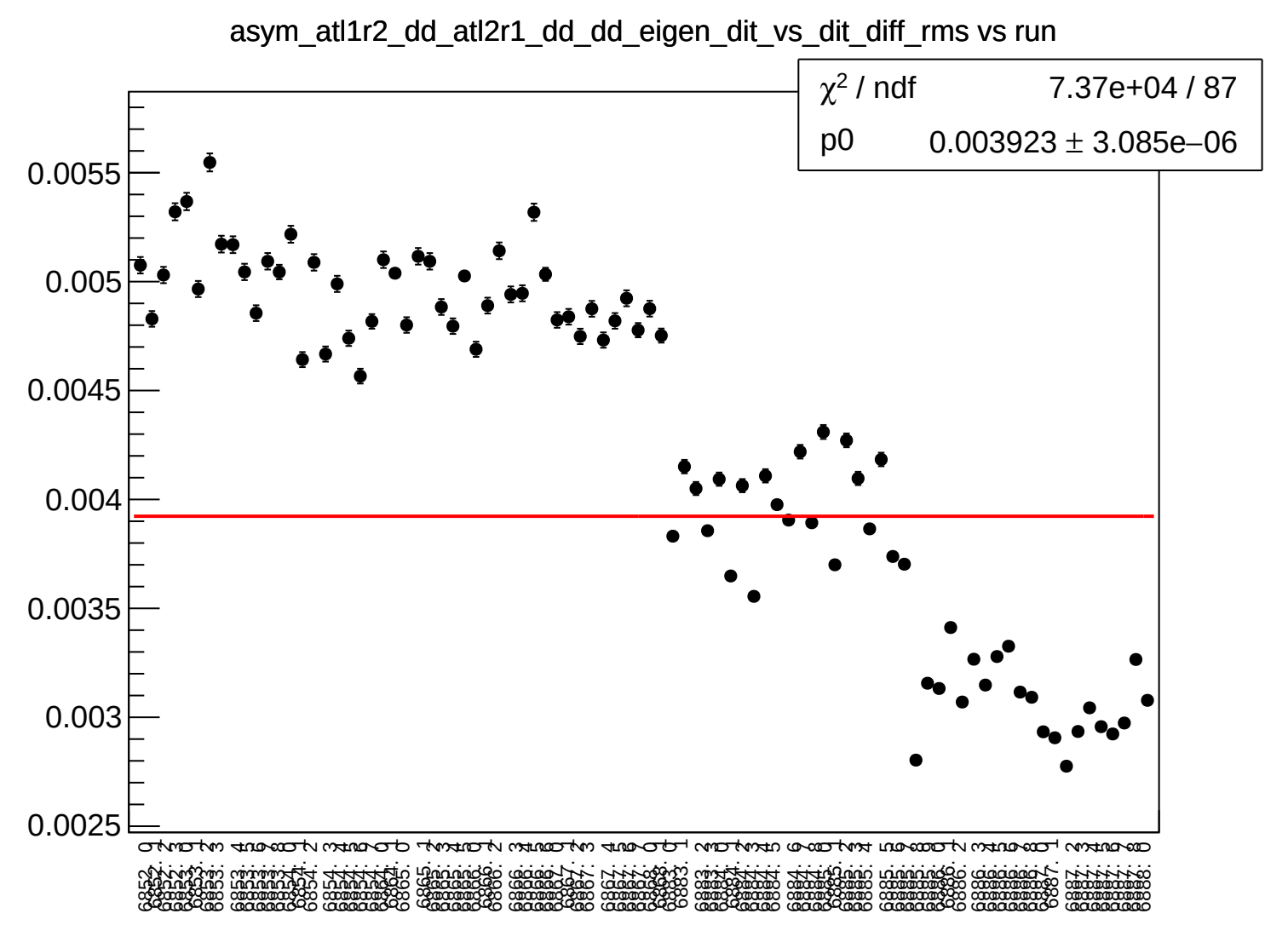

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.51 / 87
p0 0.2203 ± 0.3348
pull
Entries 88
Mean −13.8
Std Dev 0

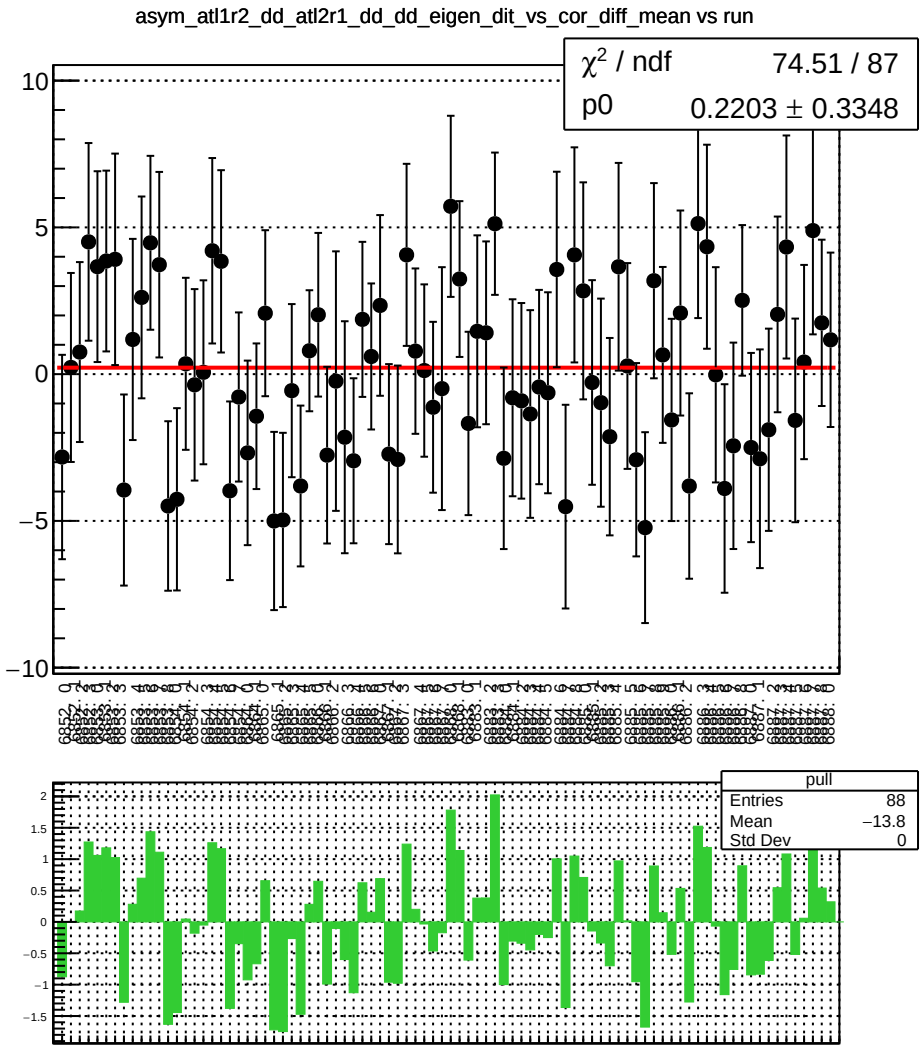

pull1D
Entries 88
Mean −0.007096
Std Dev 0.9201

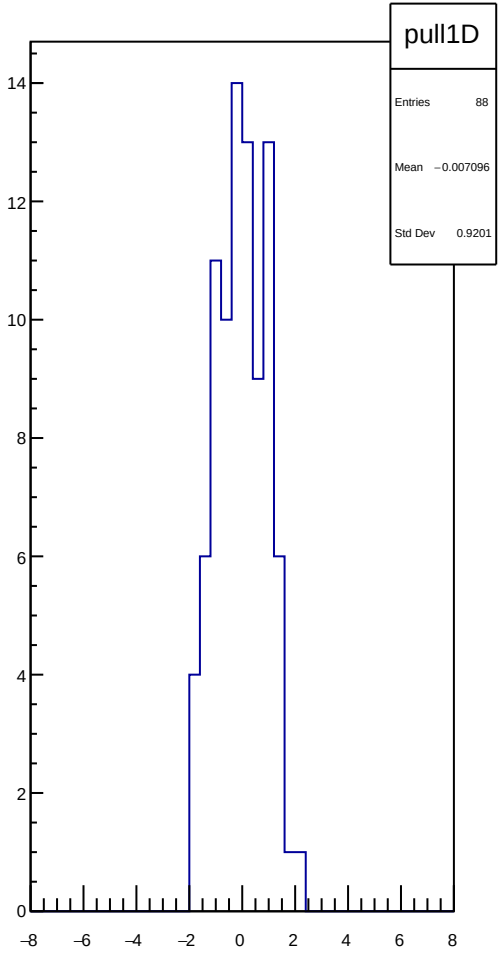

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 87
p0 306.6 ± 0.2367
440
420
400
380
360
340
320
300
280
260
240

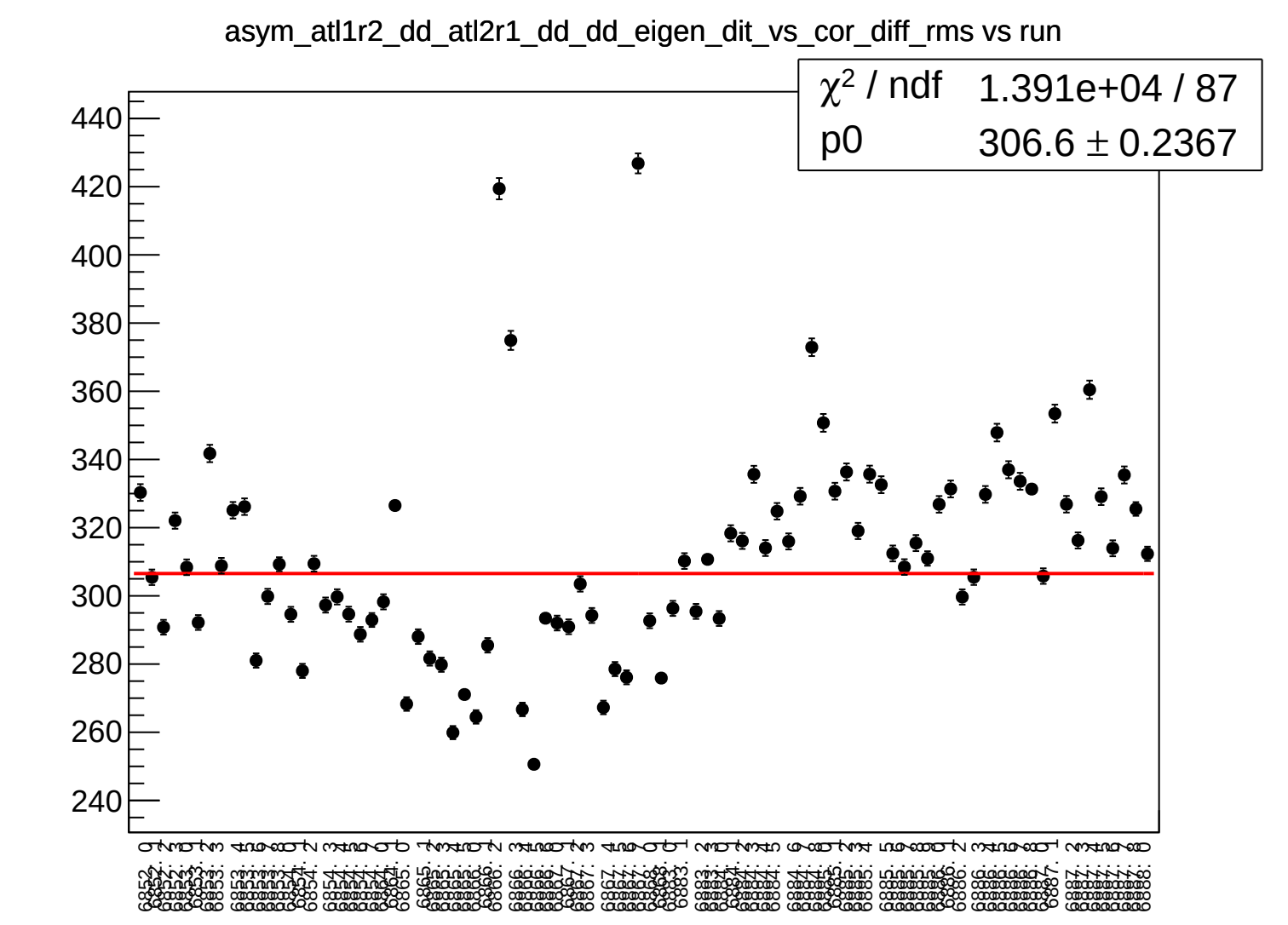

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.69 / 87
p0 7.891e−06 ± 4.363e−06
pull
Entries 88
Mean −231.4
Std Dev 0

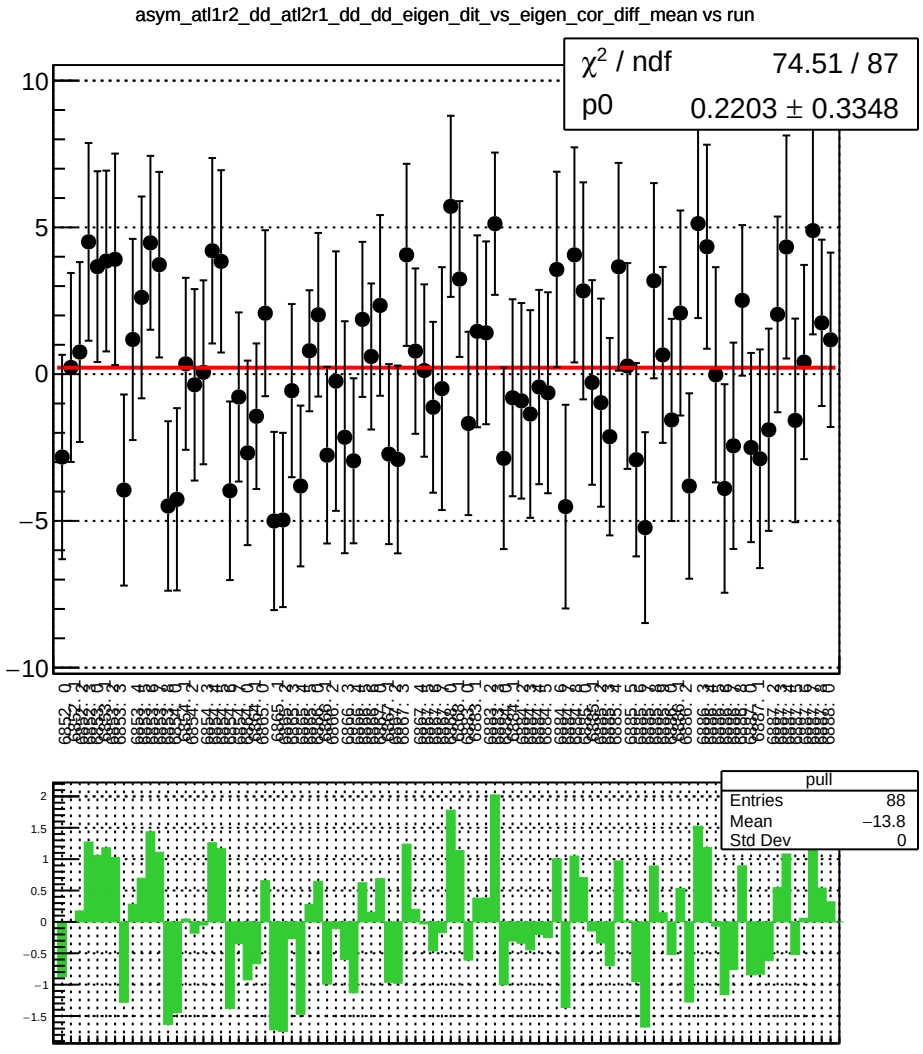

pull1D
Entries 88
Mean 0.009387
Std Dev 1.043

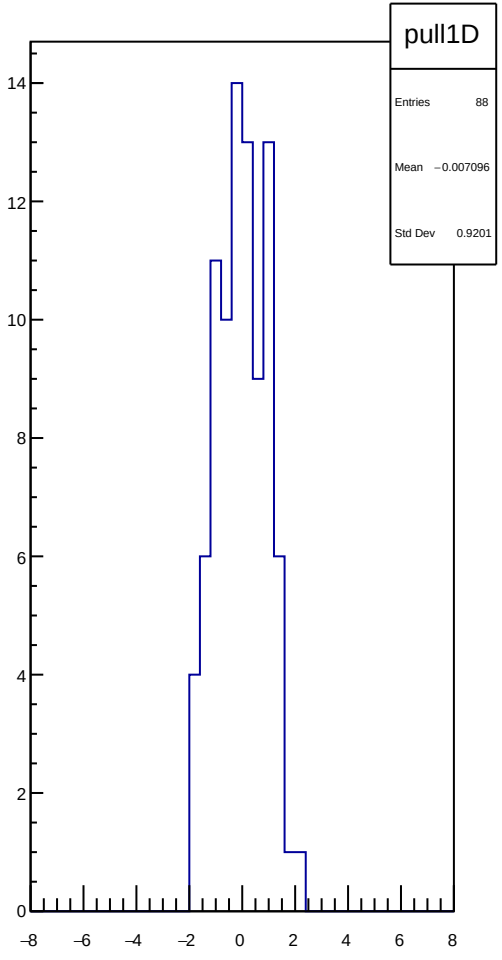

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.37e+04 / 87
p0 0.003923 ± 3.085e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

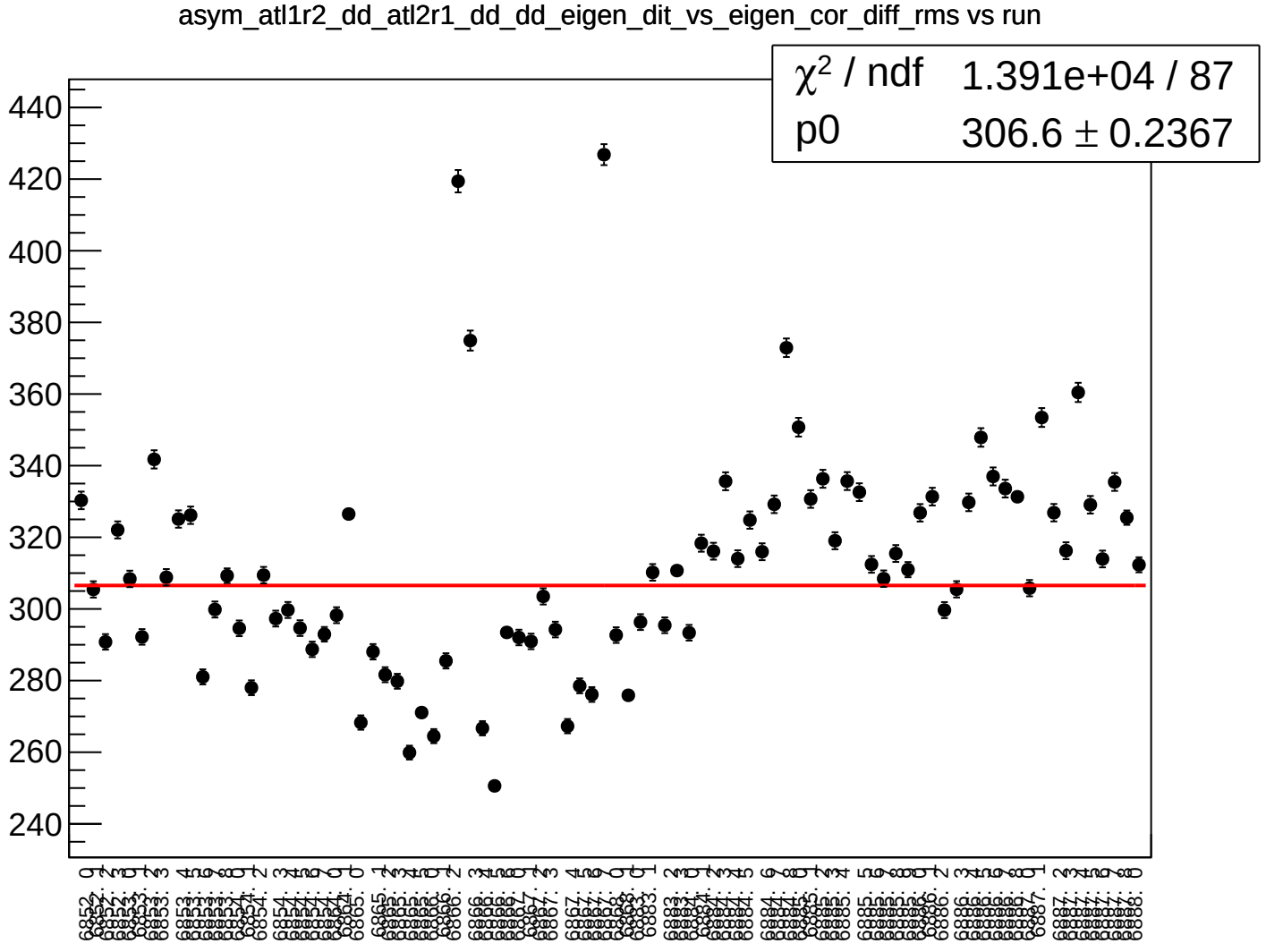

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.51 / 87
p0 0.2203 ± 0.3348
pull
Entries 88
Mean −13.8
Std Dev 0

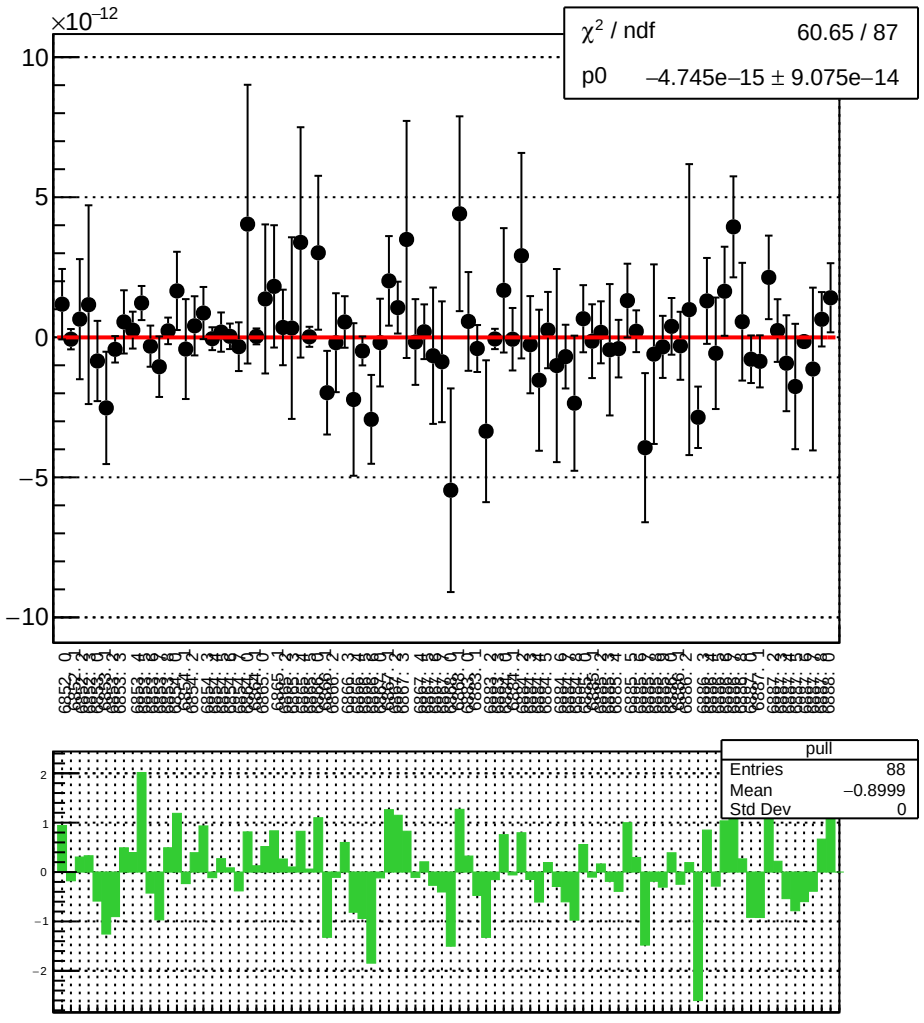

pull1D
Entries 88
Mean −0.007096
Std Dev 0.9201

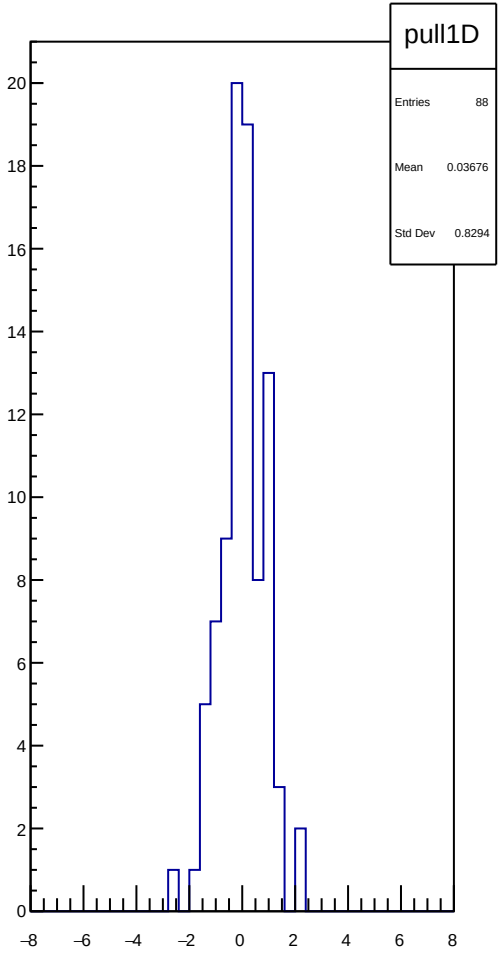

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 87
p0 306.6 ± 0.2367
440
420
400
380
360
340
320
300
280
260
240

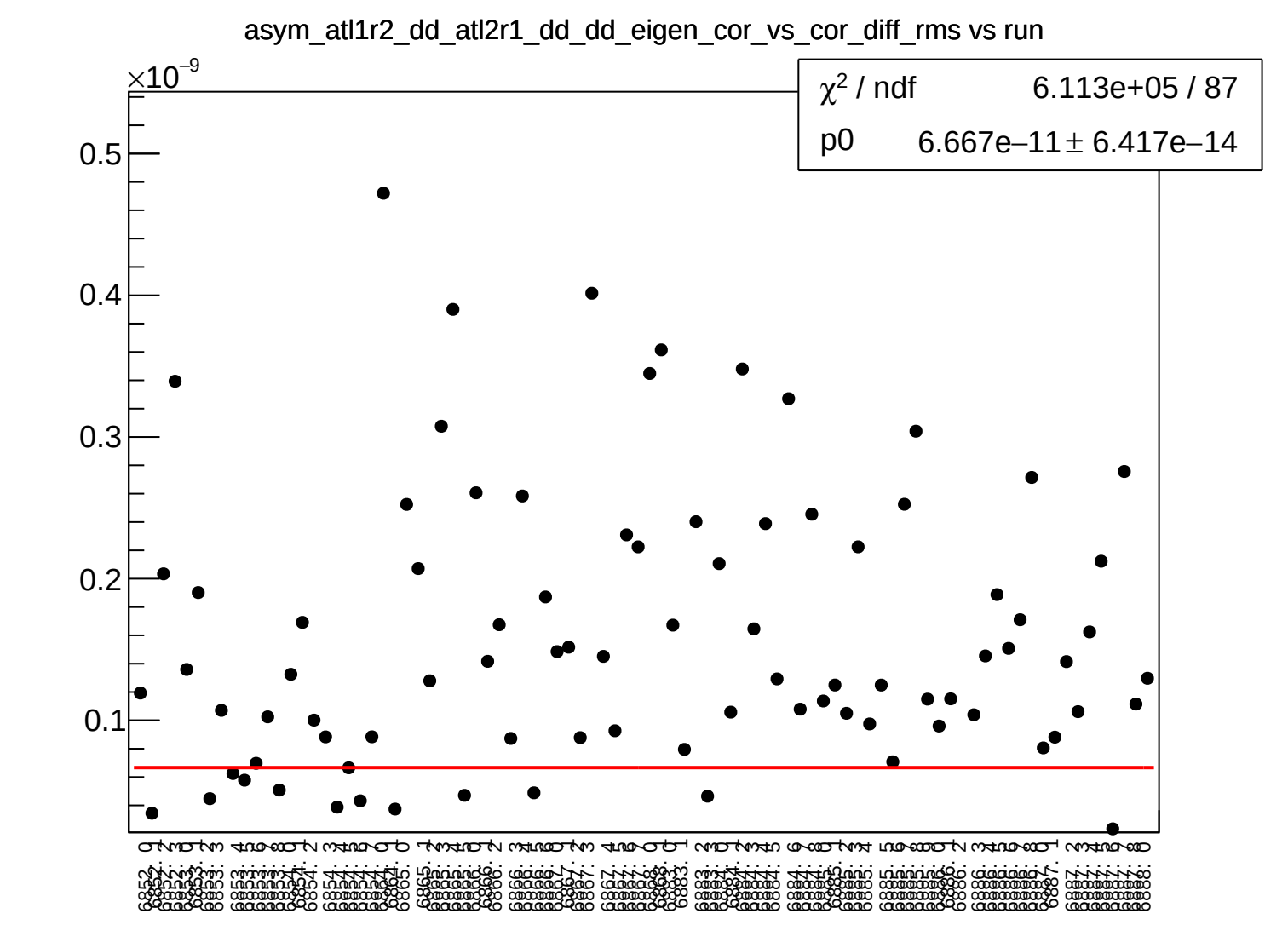

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.51 / 87
p0 0.2203 ± 0.3348
pull
Entries 88
Mean −13.8
Std Dev 0

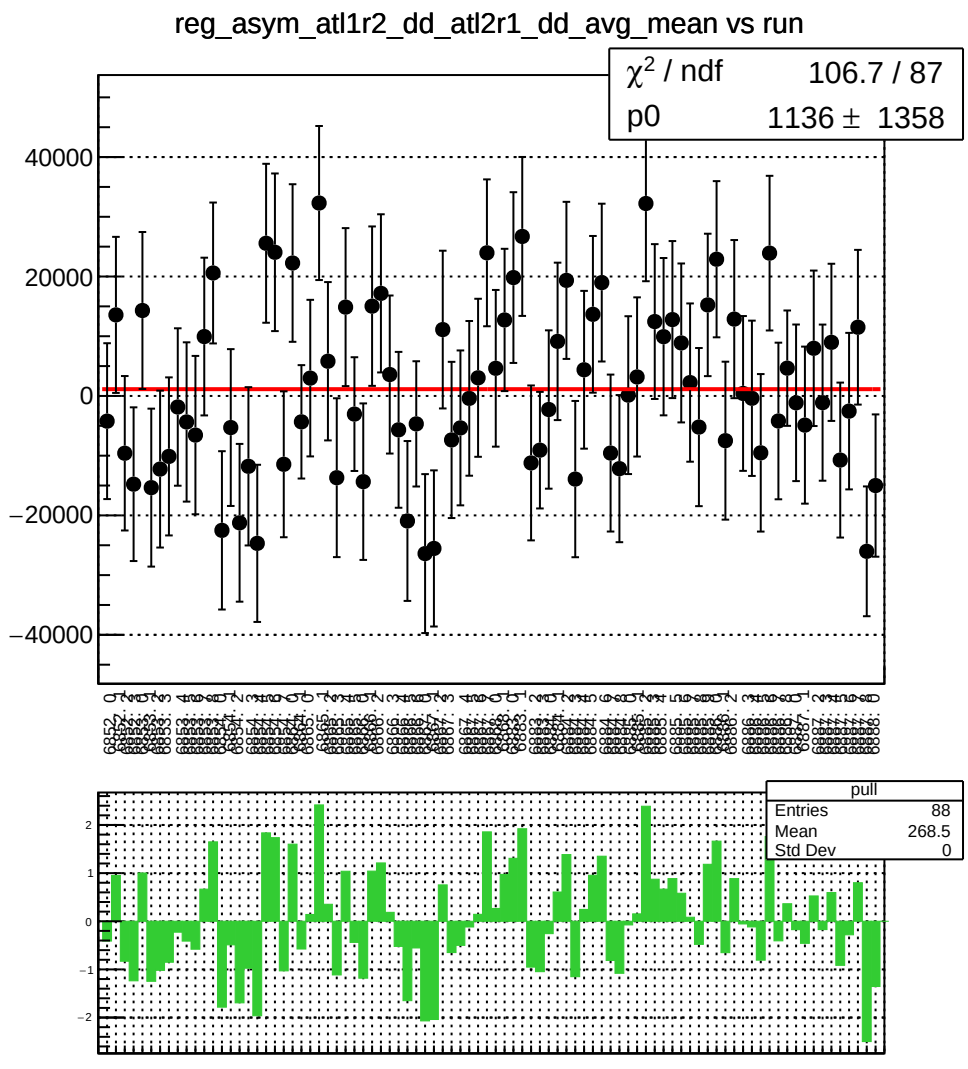

pull1D
Entries 88
Mean −0.007096
Std Dev 0.9201

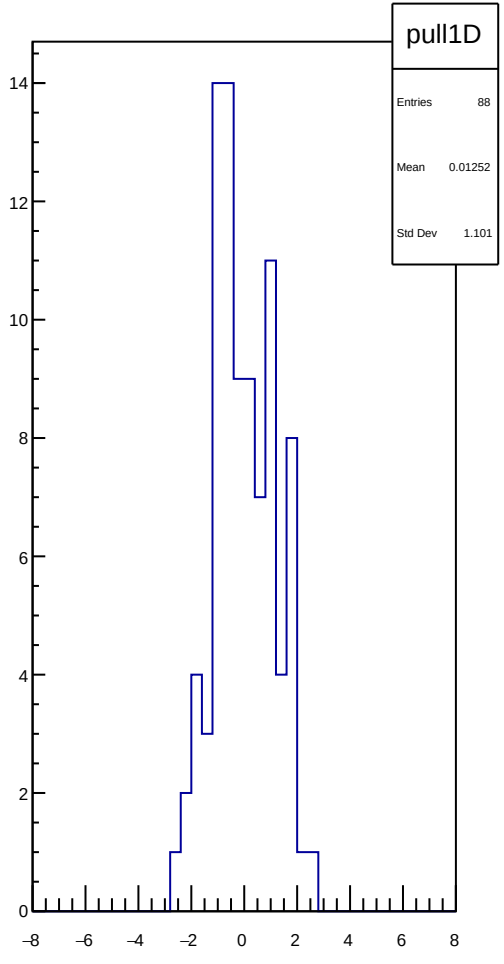

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 87
p0 306.6 ± 0.2367
440
420
400
380
360
340
320
300
280
260
240

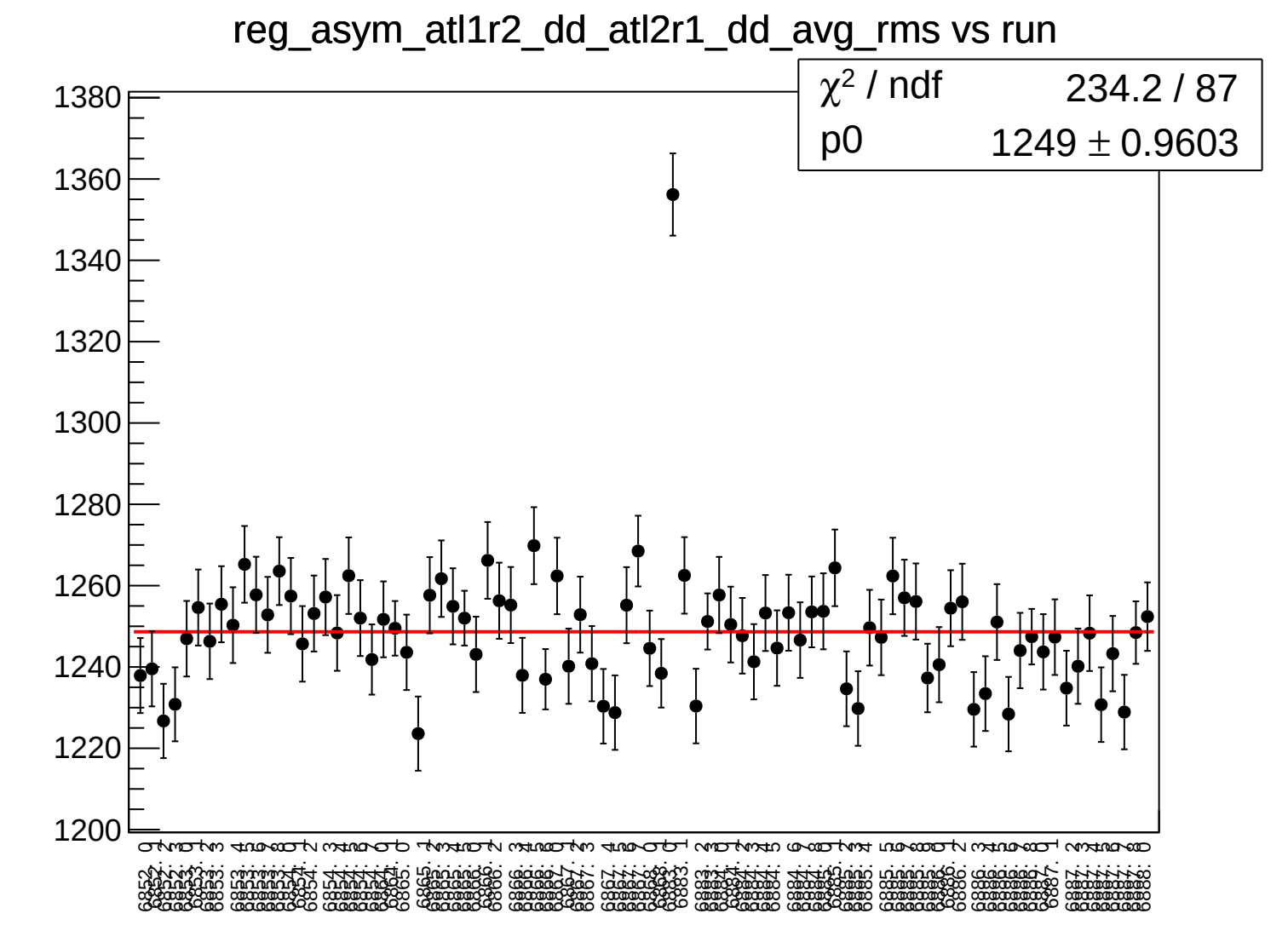

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 60.65 / 87
p0 −4.745e−15 ± 9.075e−14
pull
Entries 88
Mean −0.8999
Std Dev 0

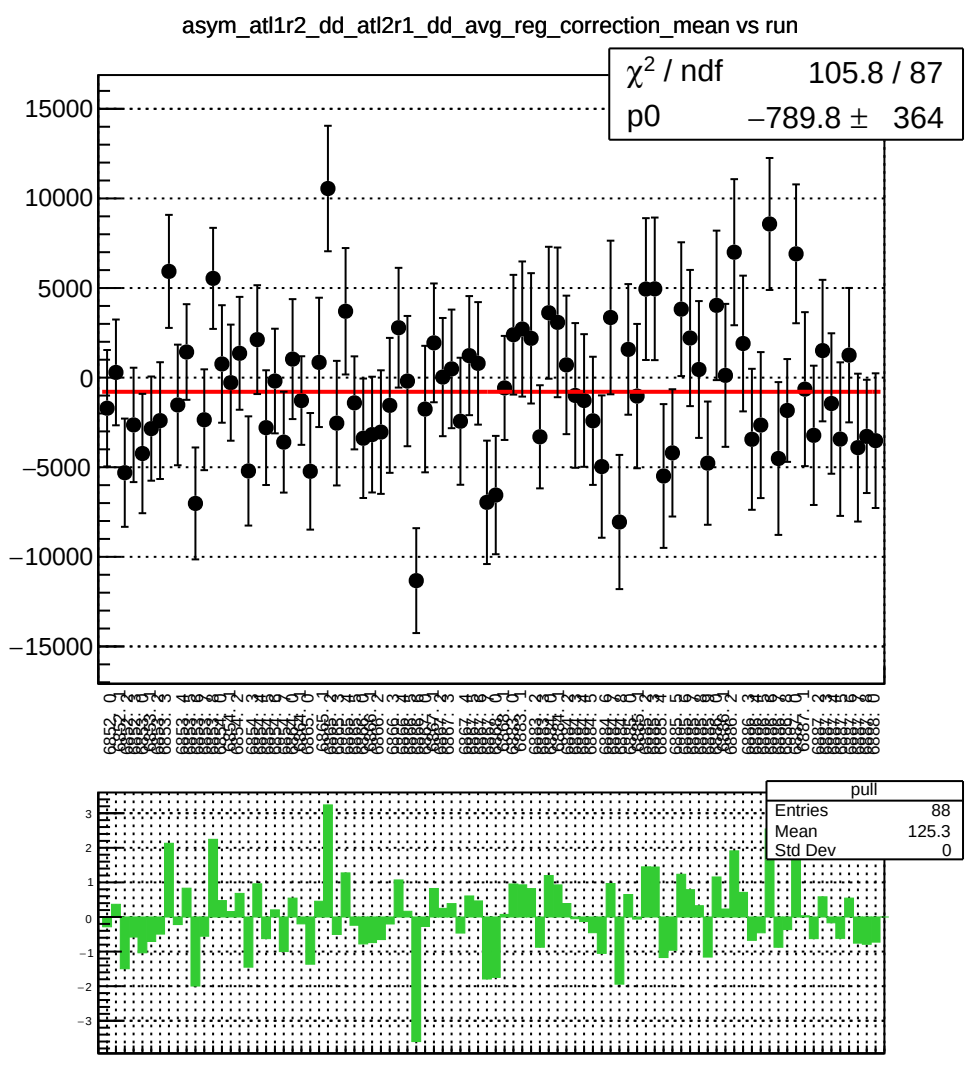

pull1D
Entries 88
Mean 0.03676
Std Dev 0.8294

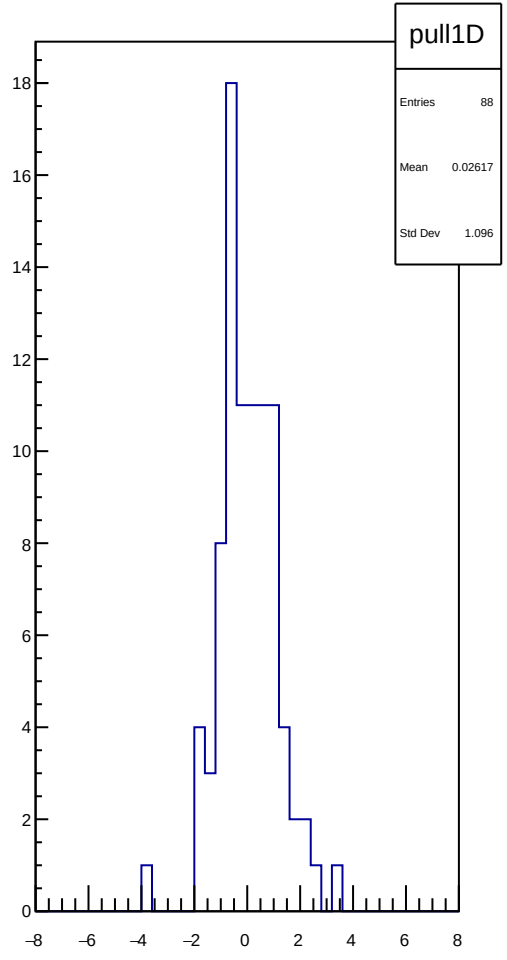

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.113e+05 / 87
p0 6.667e−11 ± 6.417e−14
0.5
0.4
0.3
0.2
0.1

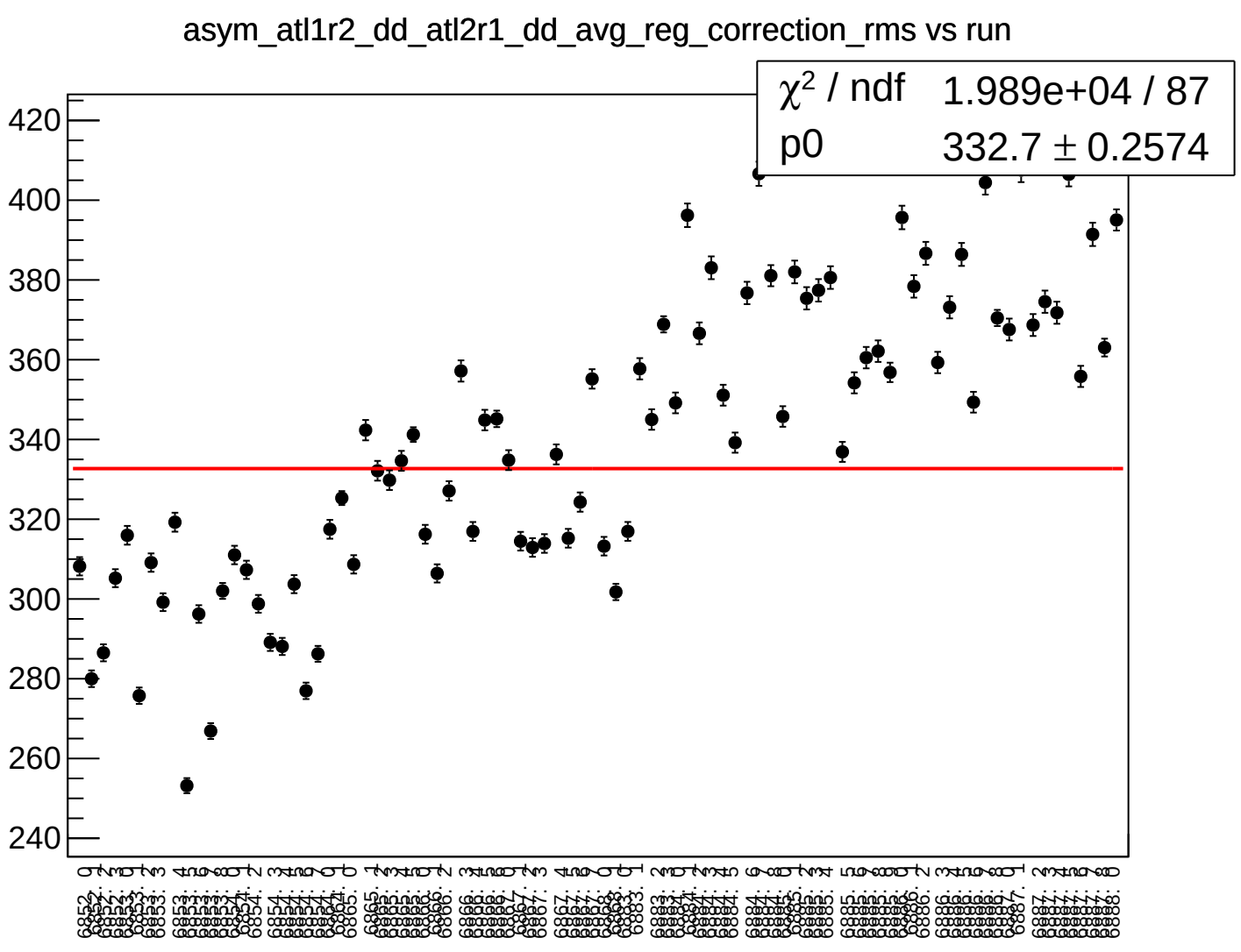

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 106.7 / 87
p0 1136 ± 1358
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 268.5
Std Dev 0
2
1
0
−1
−2

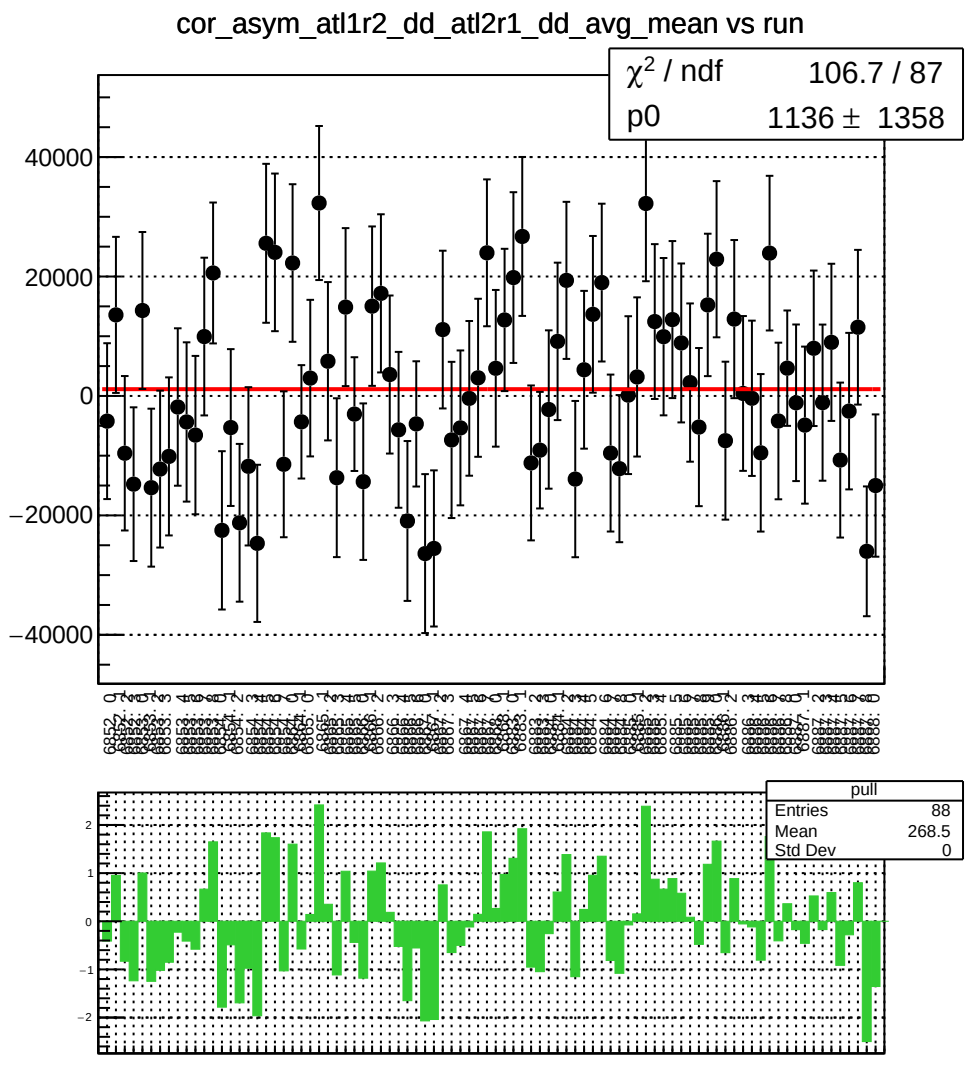

pull1D
Entries 88
Mean 0.01252
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

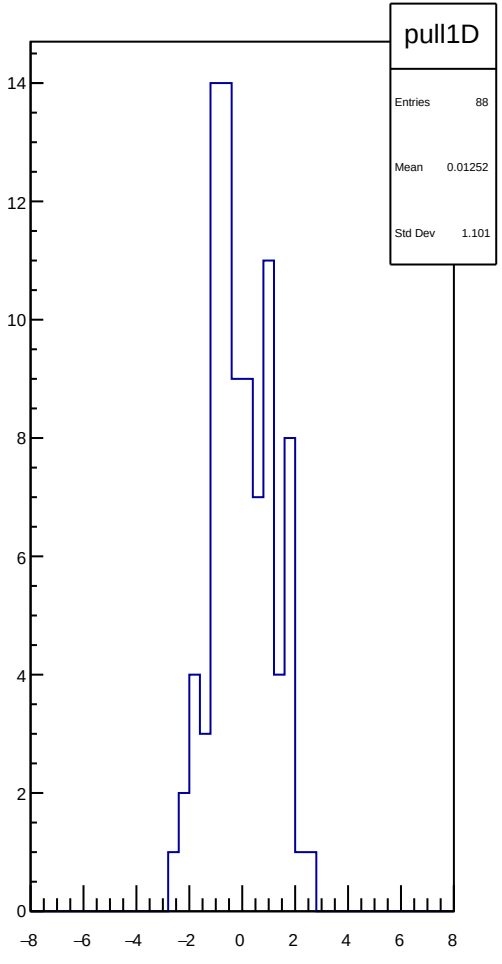

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 234.2 / 87
p0 1249 ± 0.9603
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

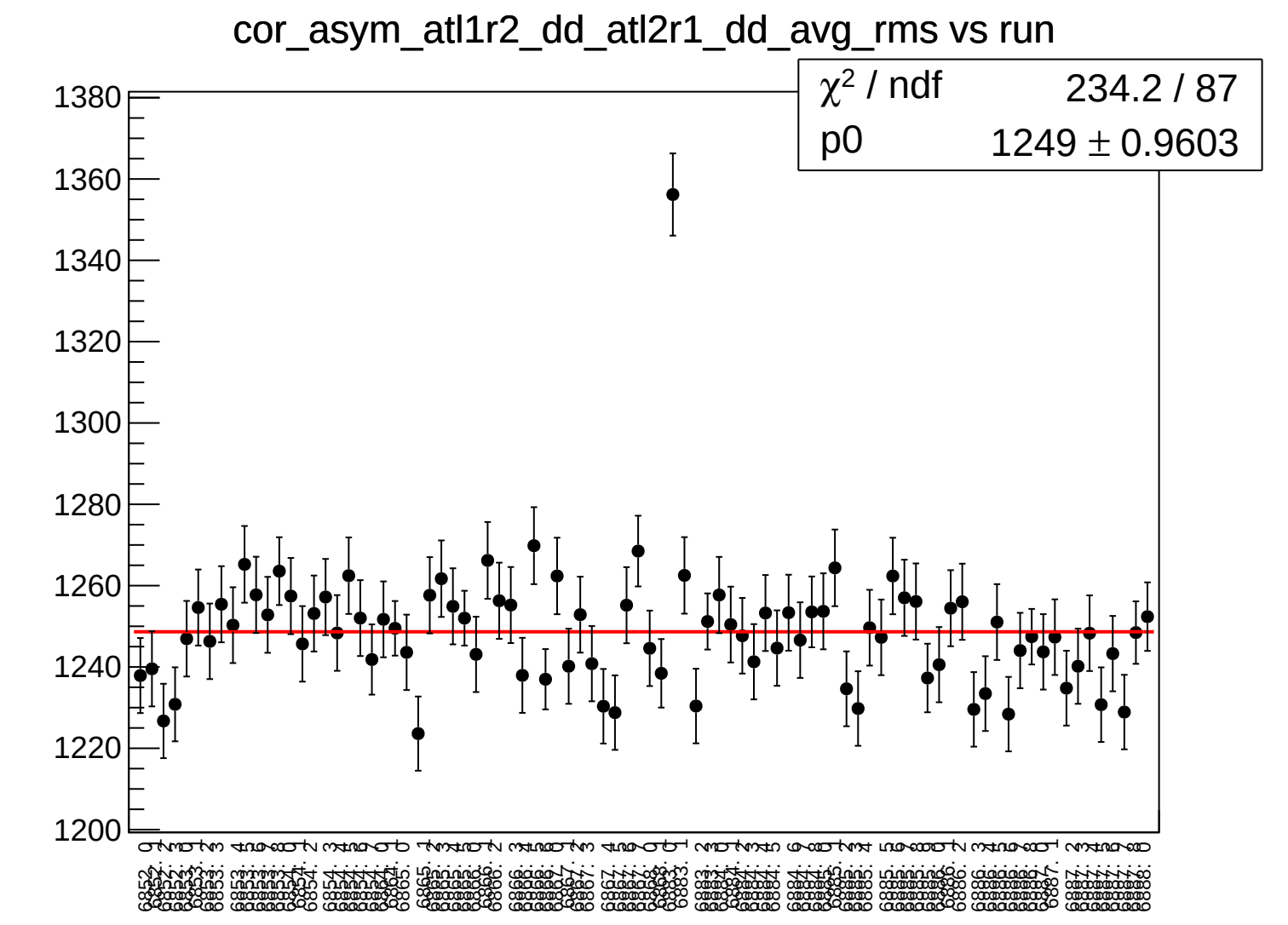

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 105.8 / 87
p0 −789.8 ± 364
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 125.3
Std Dev 0
3
2
1
0
−1
−2
−3

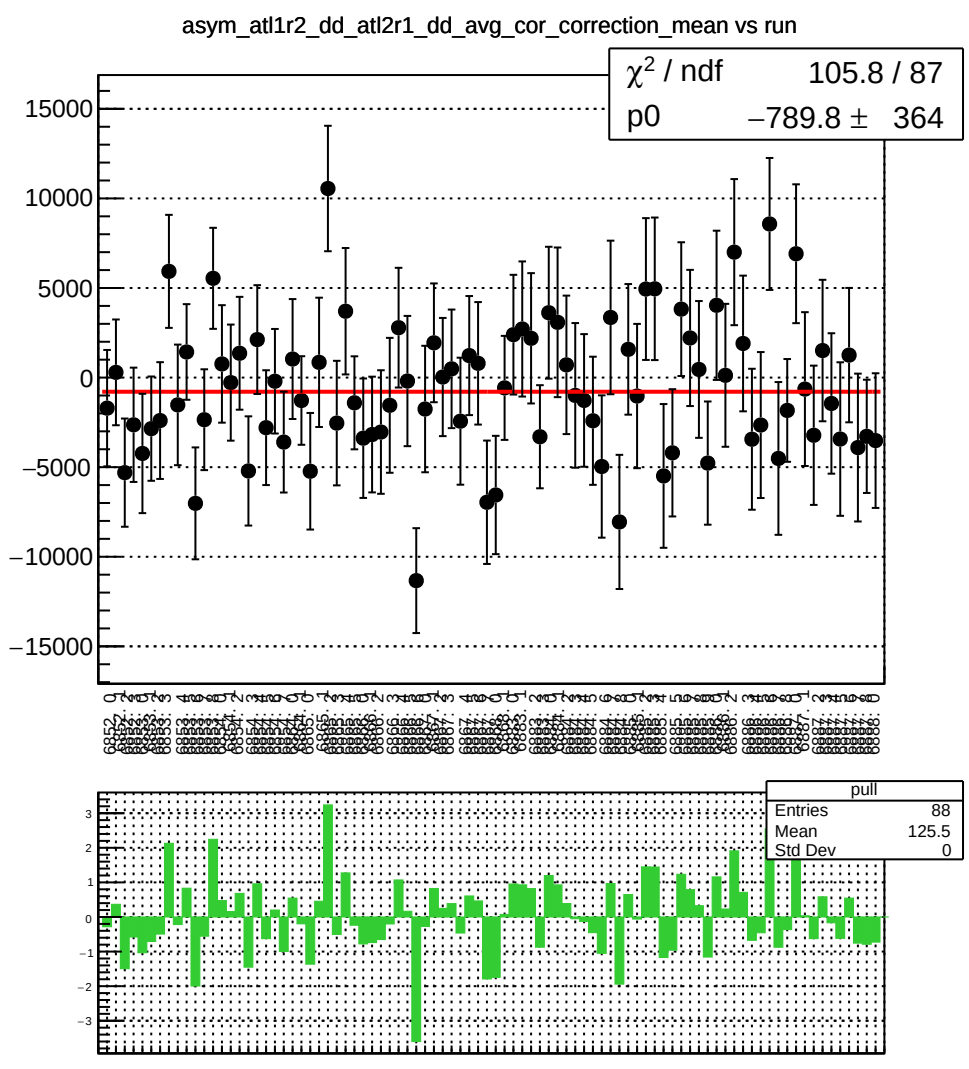

pull1D
Entries 88
Mean 0.02617
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

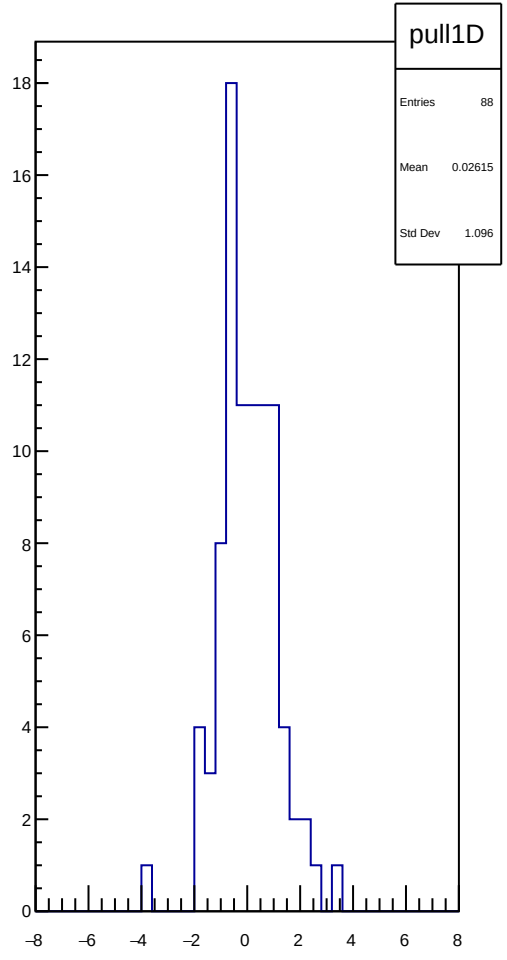

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.989e+04 / 87
p0 332.7 ± 0.2574
420
400
380
360
340
320
300
280
260
240

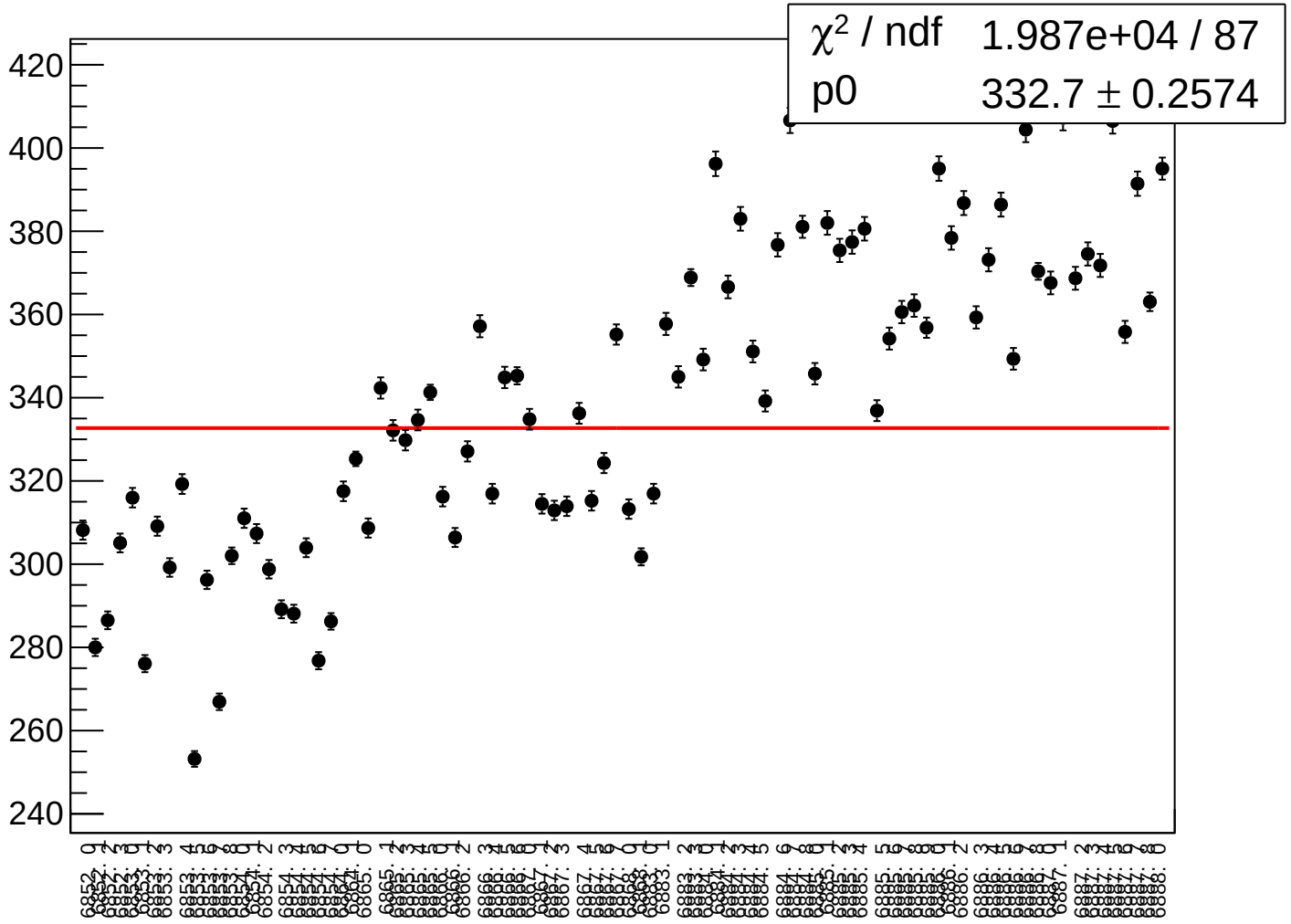

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 106.7 / 87
p0 1136 ± 1358
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 268.5
Std Dev 0
2
1
0
−1
−2

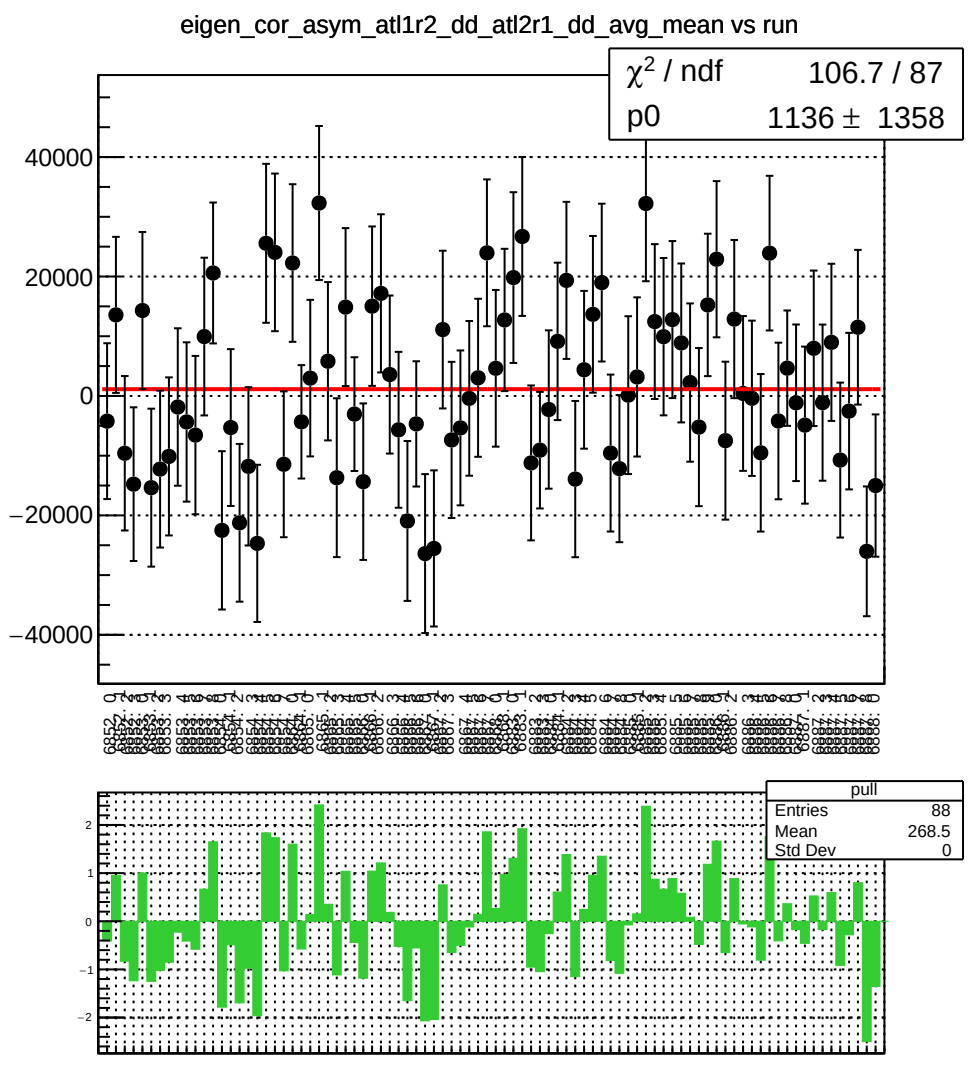

pull1D
Entries 88
Mean 0.01252
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

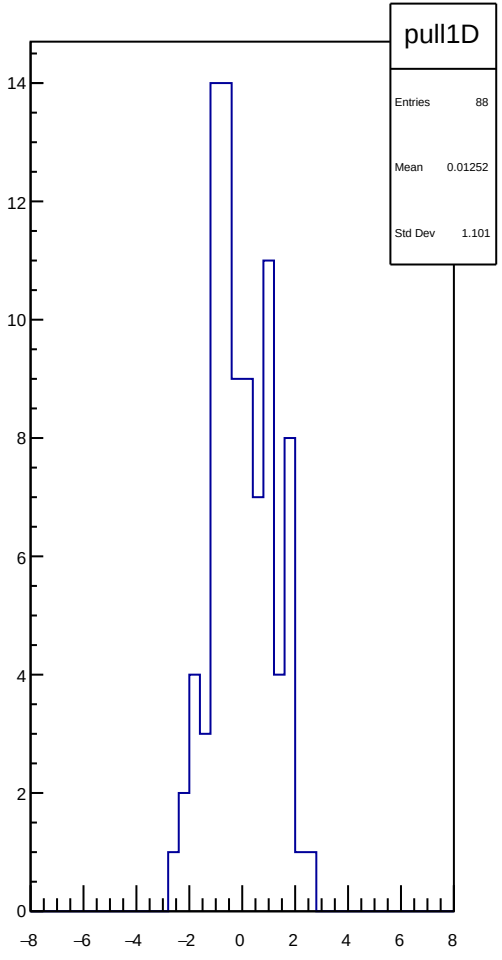

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 234.2 / 87
p0 1249 ± 0.9603
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

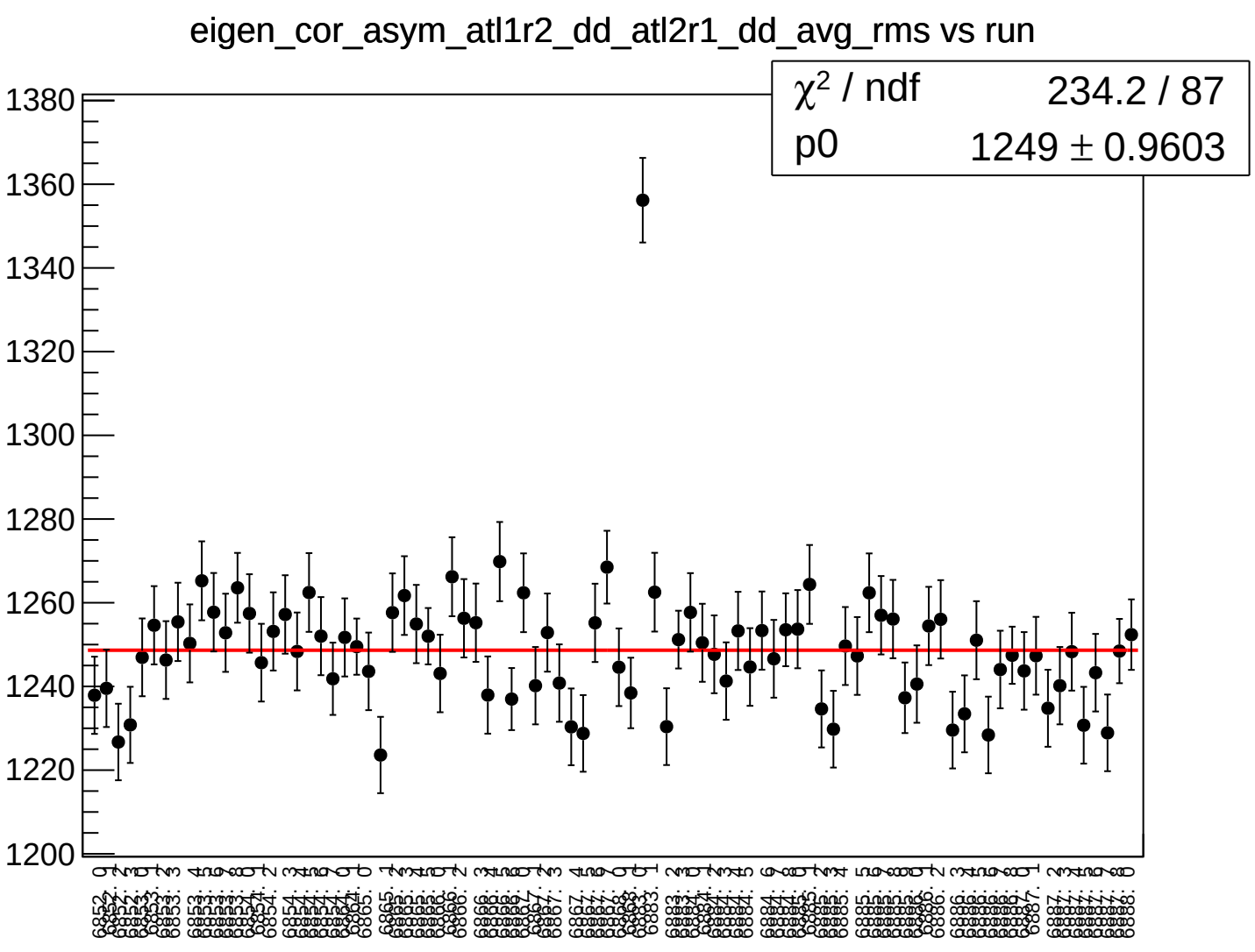

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 105.8 / 87
p0 −789.8 ± 364
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 125.5
Std Dev 0
3
2
1
0
−1
−2
−3

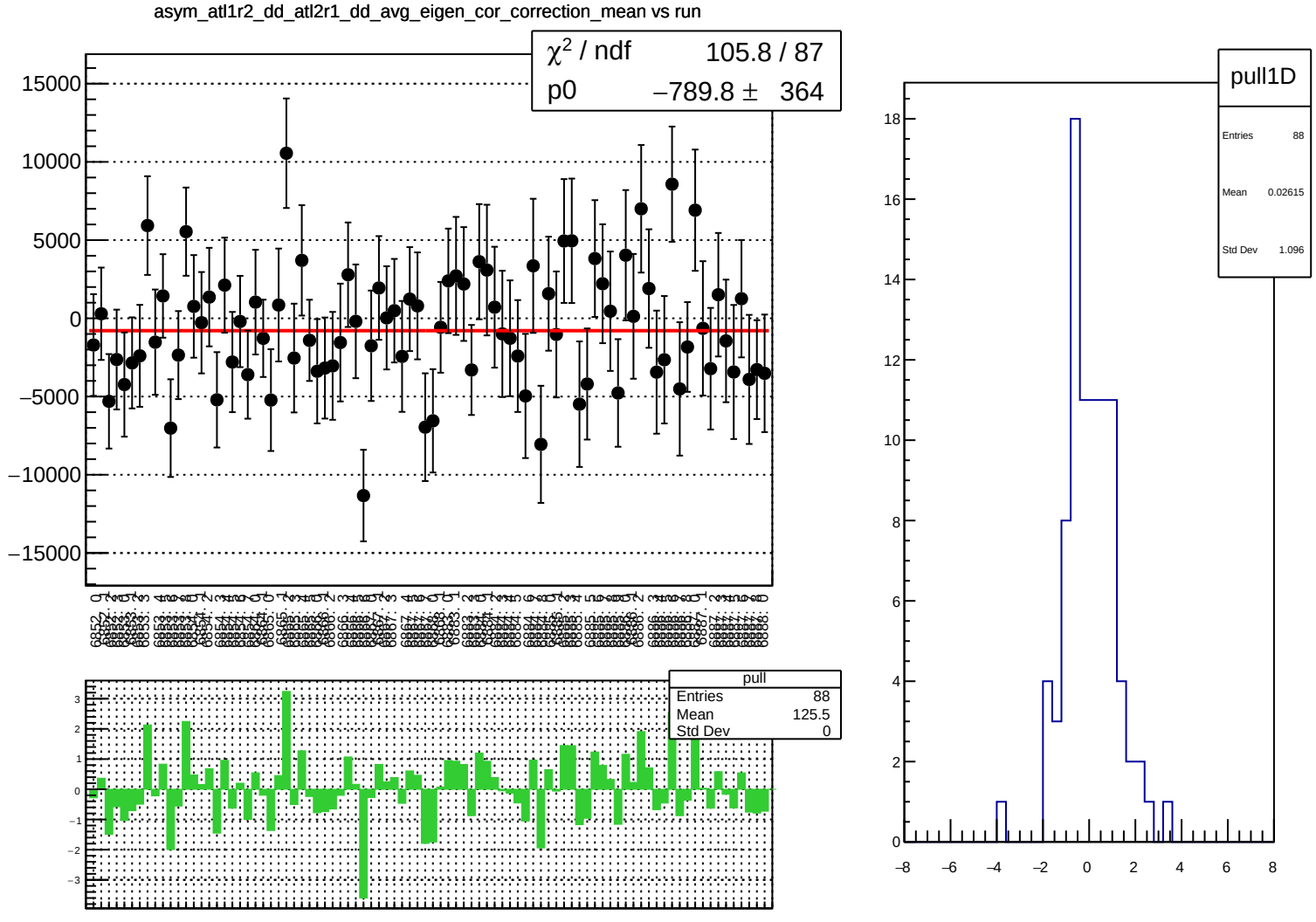

pull1D
Entries 88
Mean 0.02615
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

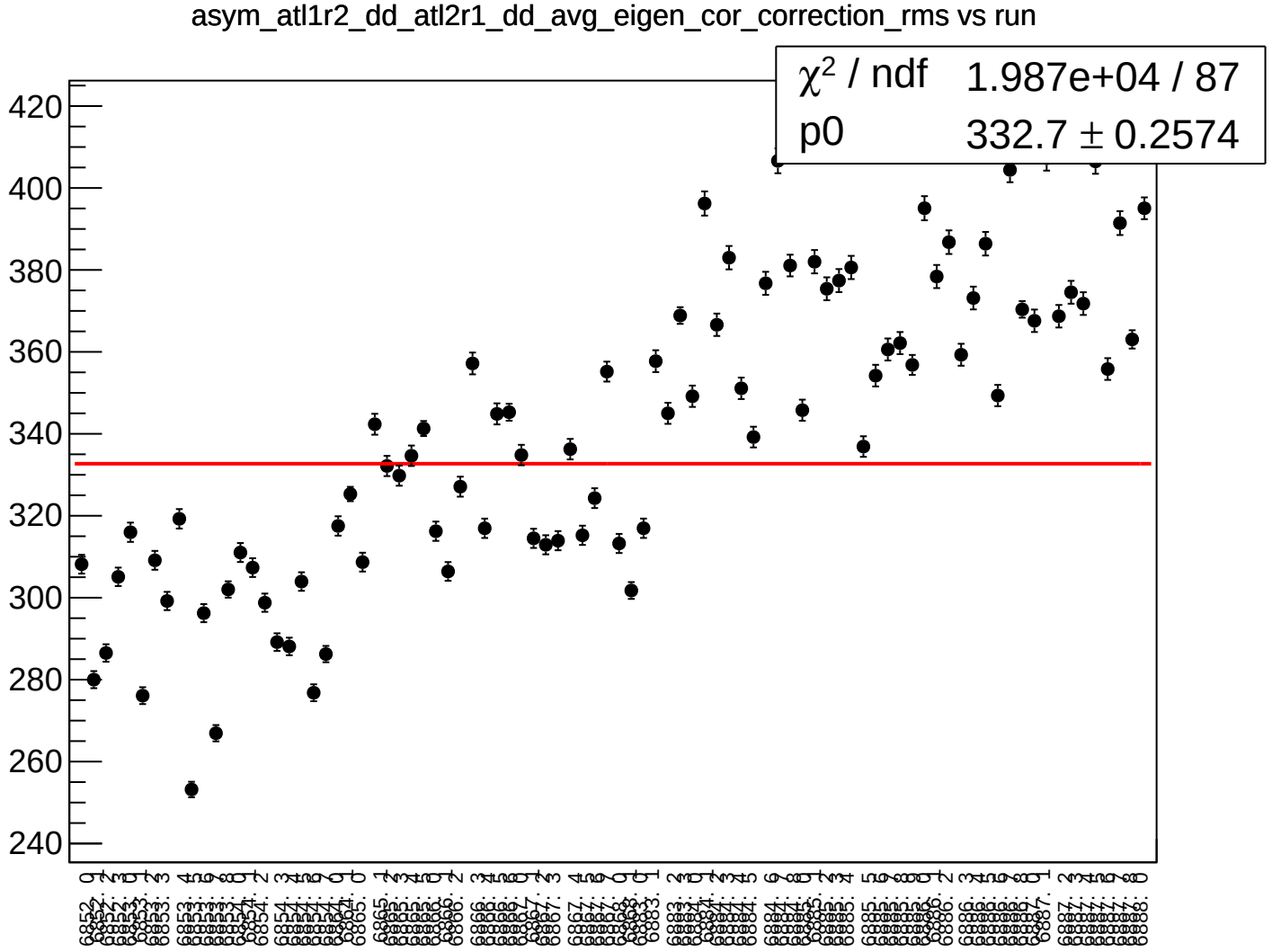

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.987e+04 / 87
p0 332.7 ± 0.2574
420
400
380
360
340
320
300
280
260
240

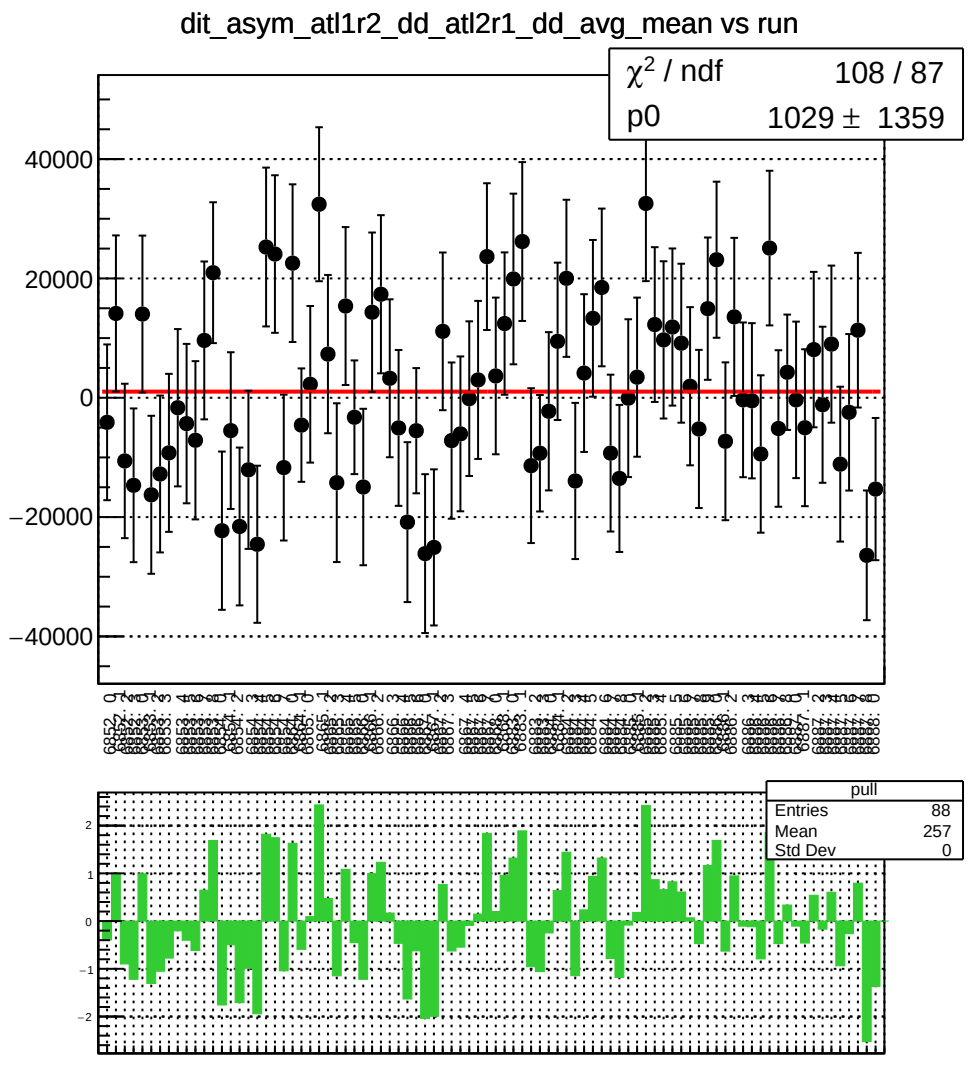

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 106.7 / 87
p0 1136 ± 1358
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 268.5
Std Dev 0
2
1
0
−1
−2

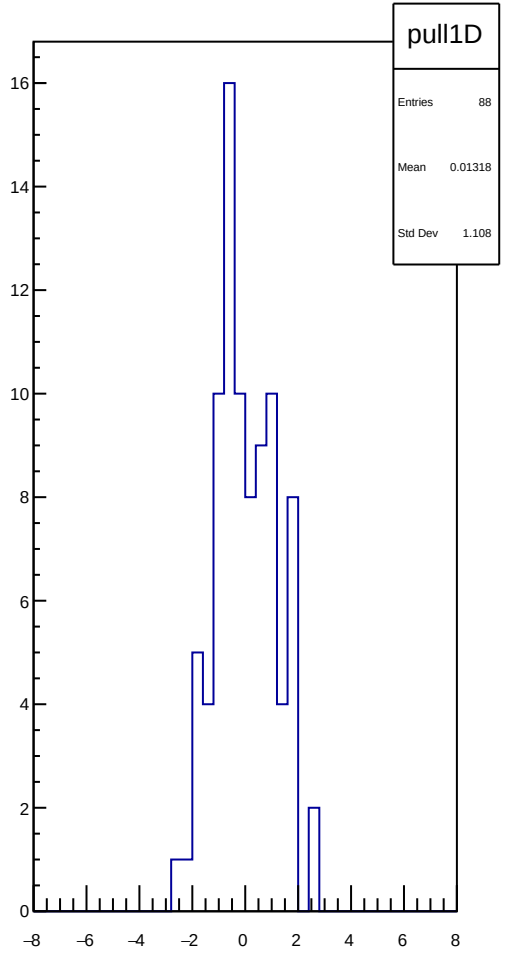

pull1D
Entries 88
Mean 0.01252
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

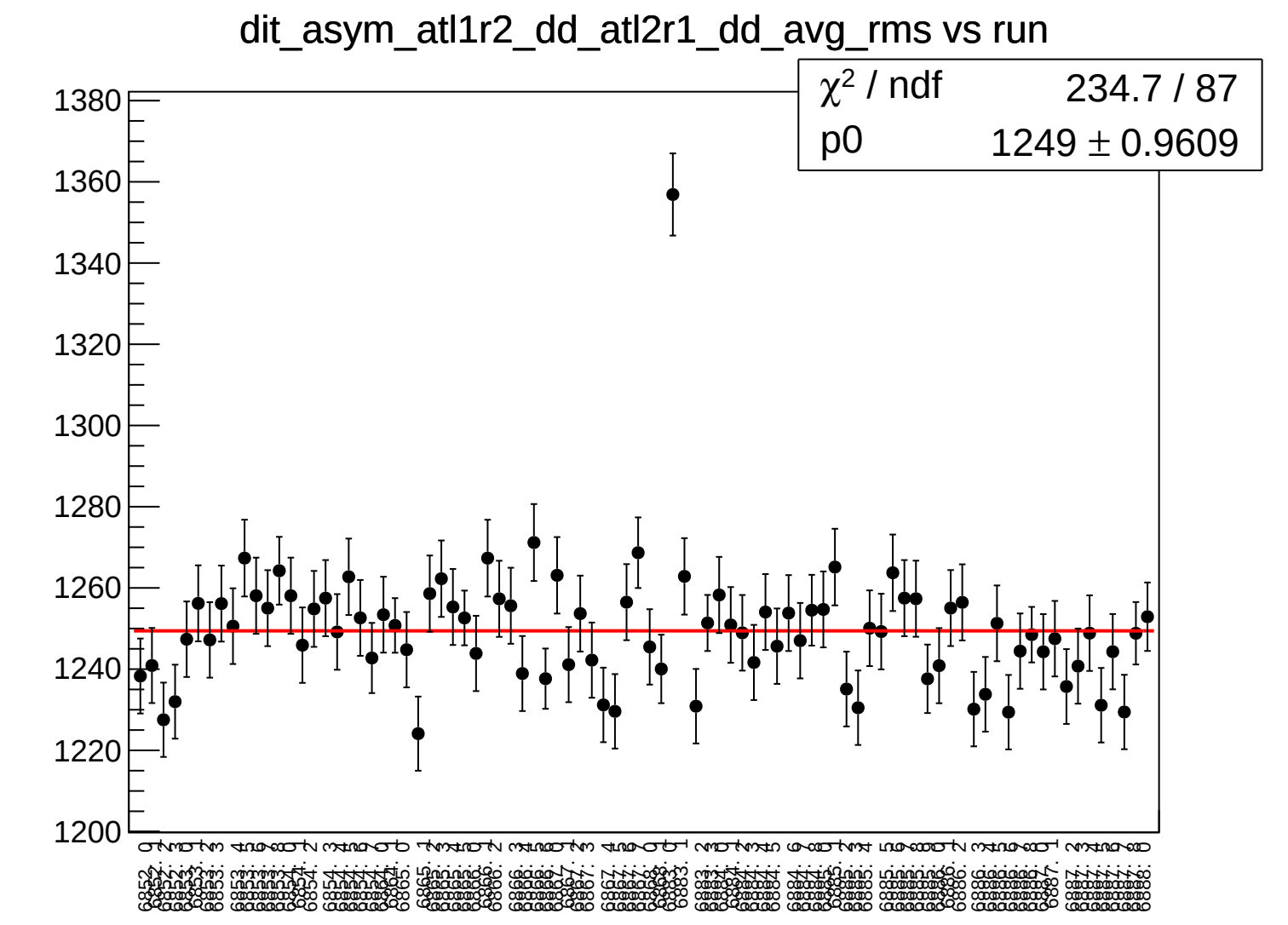

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 234.2 / 87
p0 1249 ± 0.9603
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

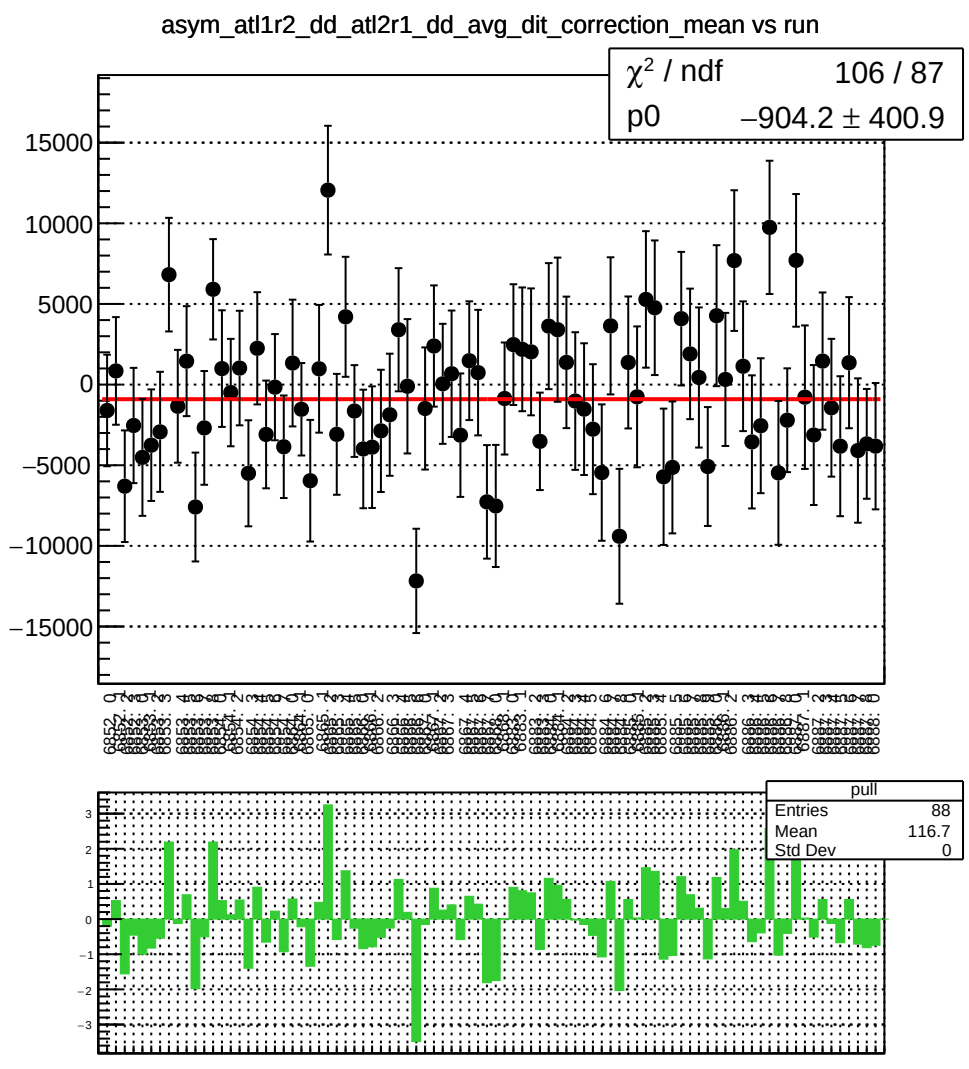

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 105.8 / 87
p0 −789.8 ± 364
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 125.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.02615
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

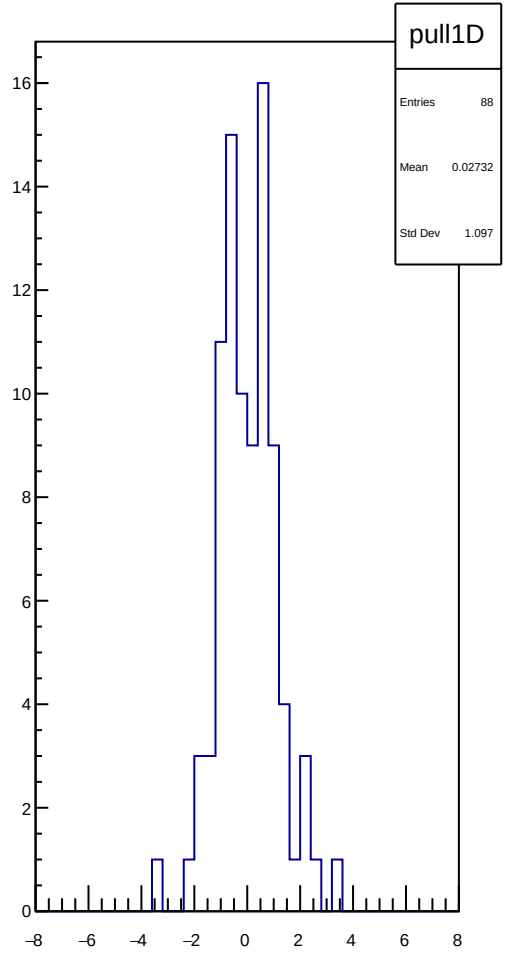

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.987e+04 / 87
p0 332.7 ± 0.2574
420
400
380
360
340
320
300
280
260
240

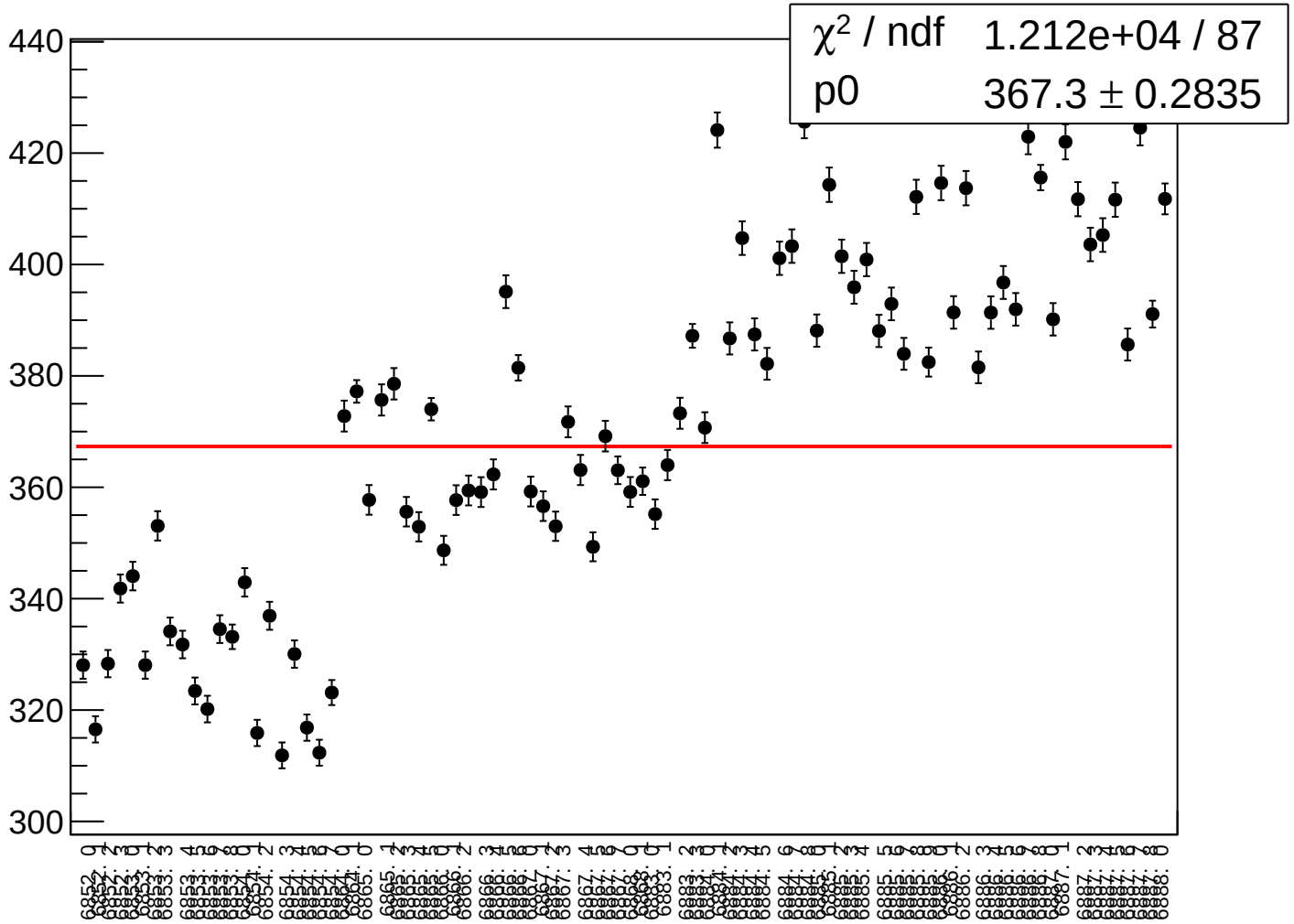

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 108 / 87
p0 1029 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 257
Std Dev 0
2
1
0
−1
−2

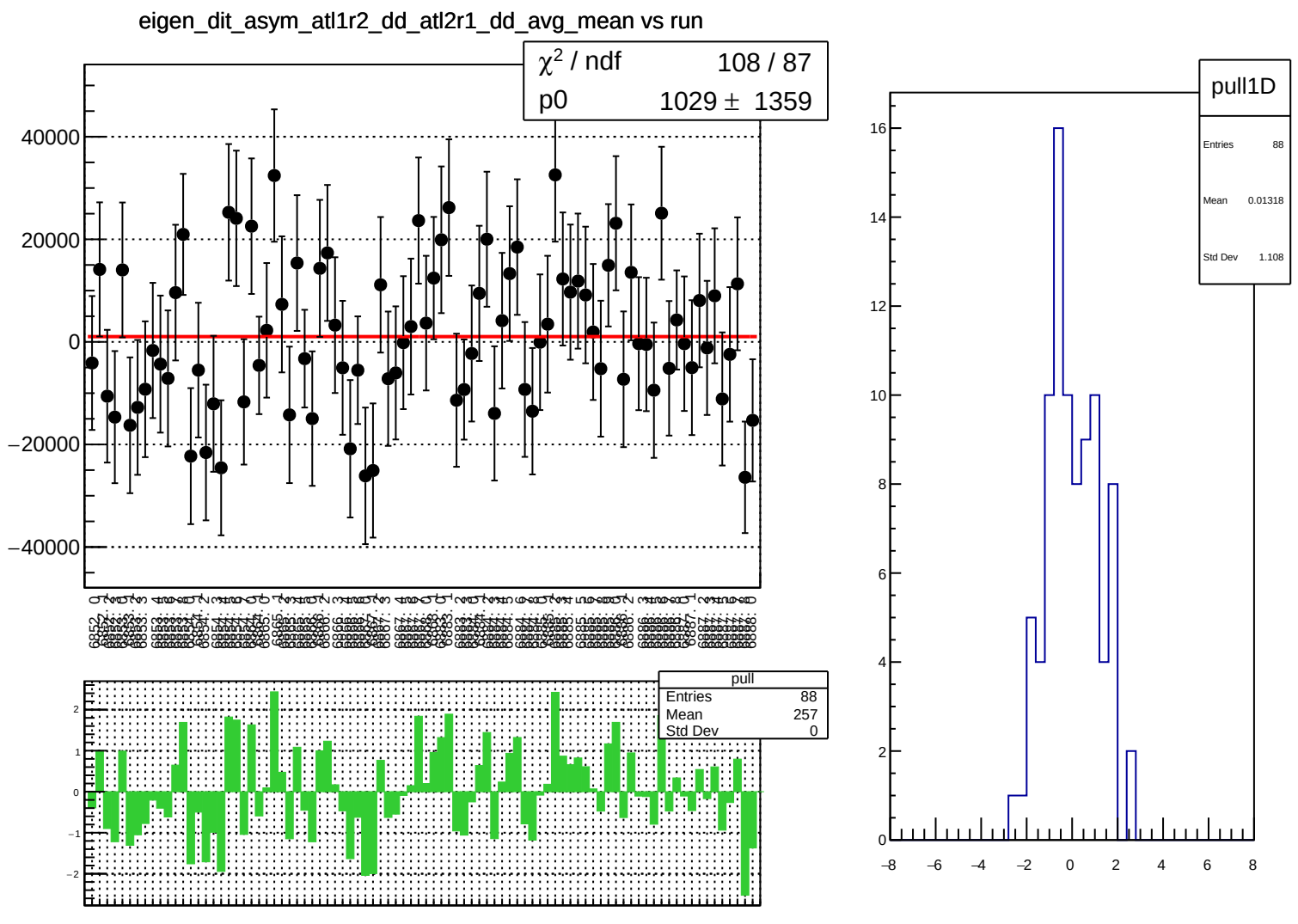

pull1D
Entries 88
Mean 0.01318
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

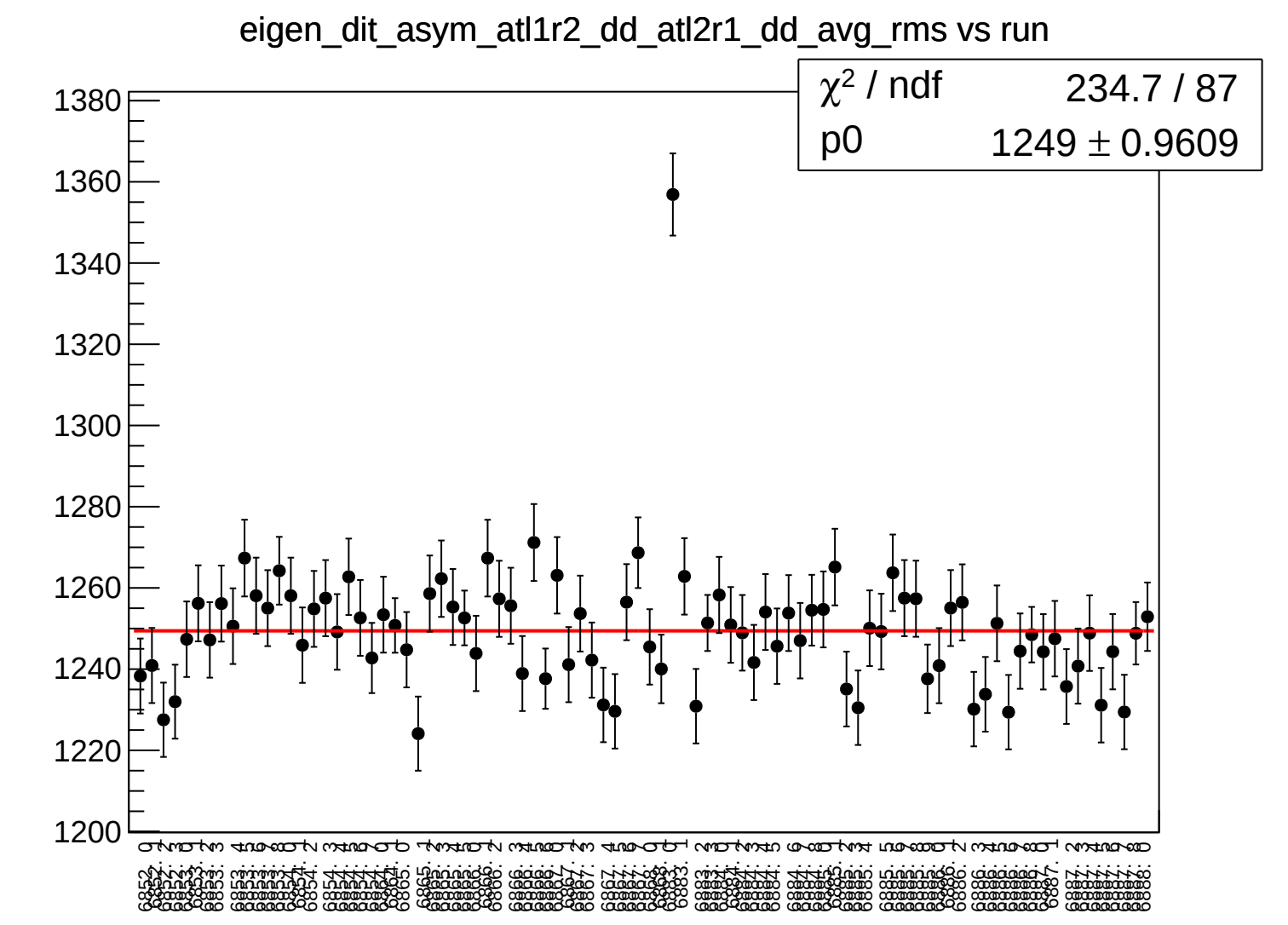

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 234.7 / 87
p0 1249 ± 0.9609
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

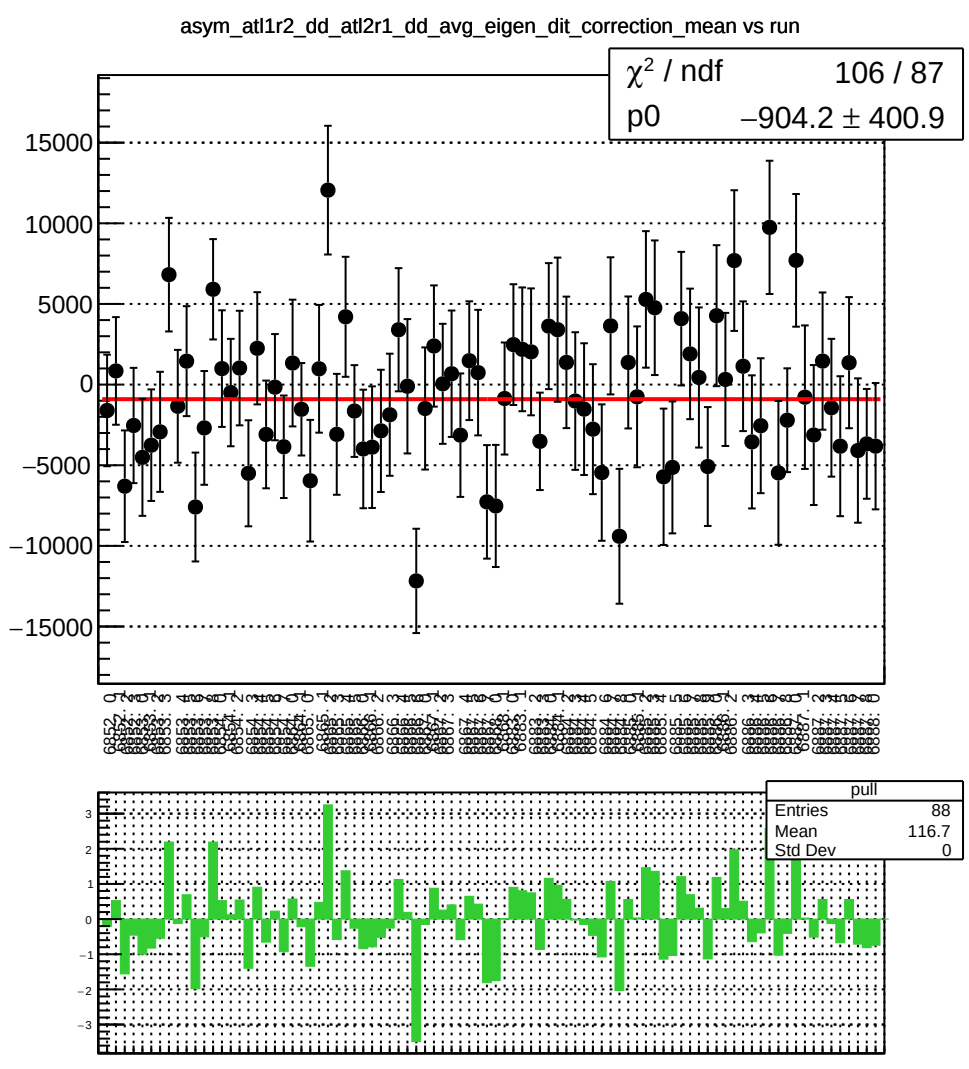

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 106 / 87
p0 −904.2 ± 400.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 116.7
Std Dev 0
3
2
1
0
−1
−2
−3

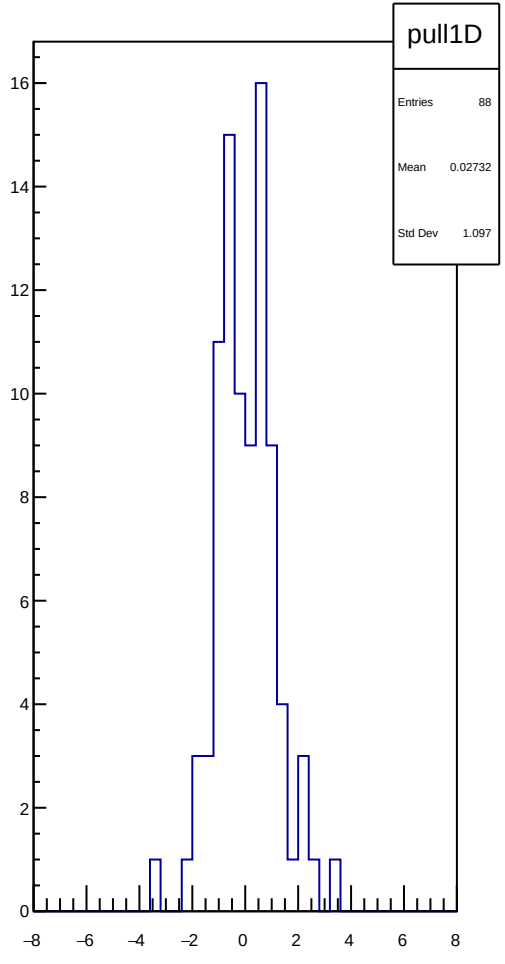

pull1D
Entries 88
Mean 0.02732
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

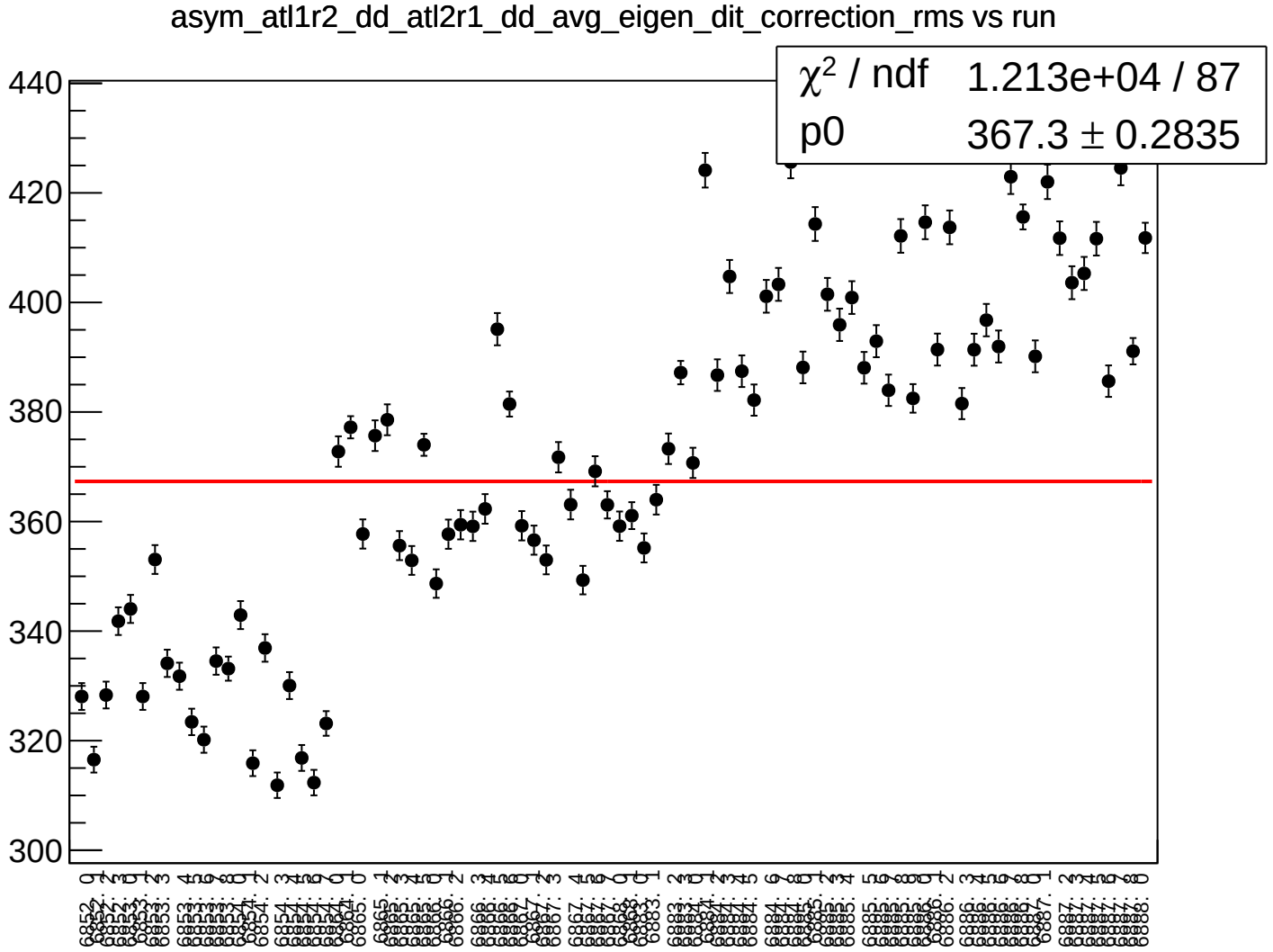

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 1.212e+04 / 87
p0 367.3 ± 0.2835
440
420
400
380
360
340
320
300

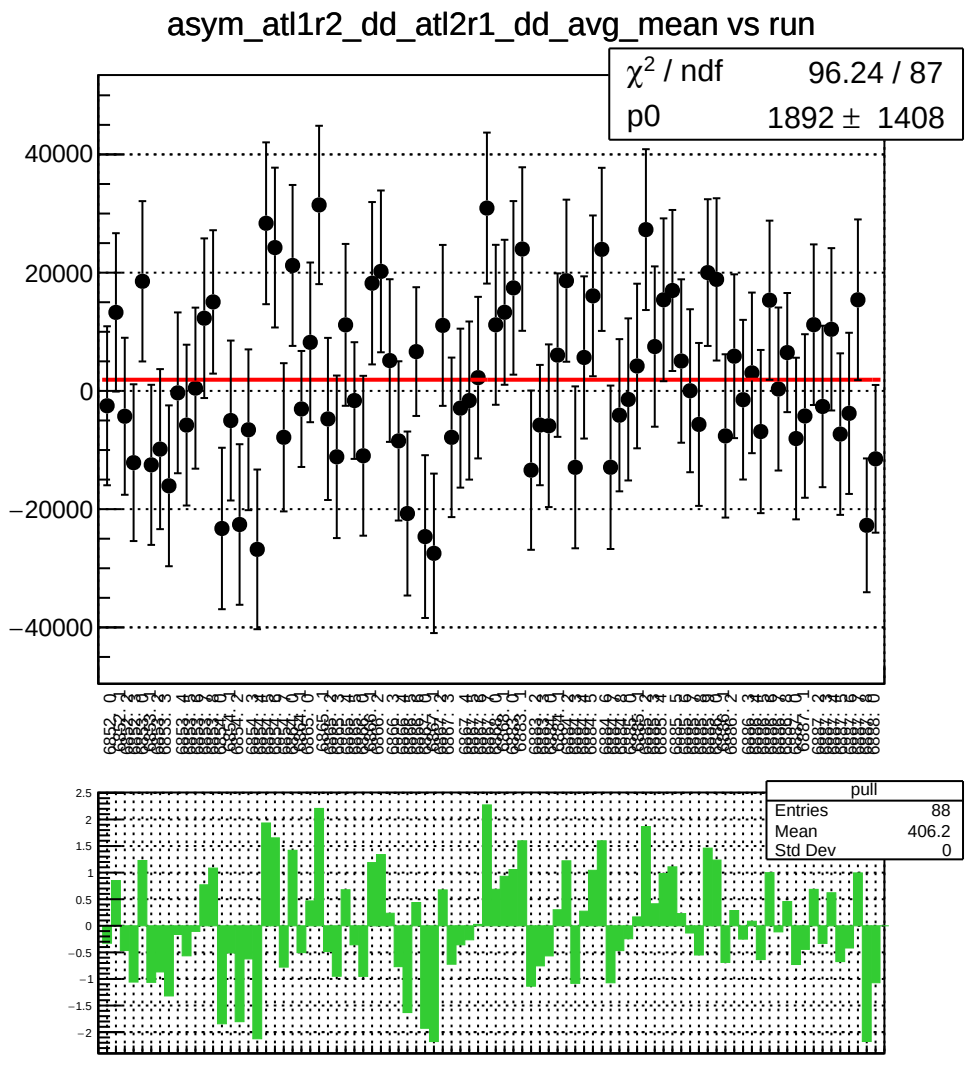

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 108 / 87
p0 1029 ± 1359
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 257
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01318
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

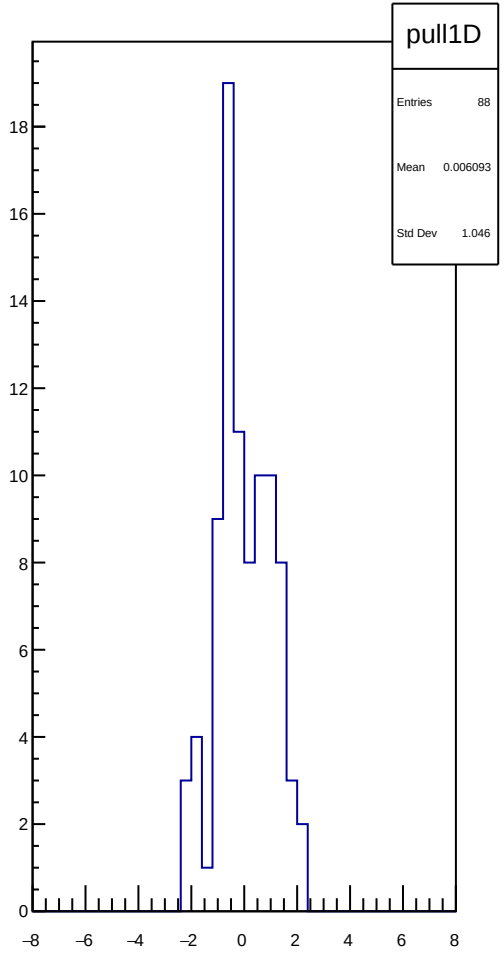

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 234.7 / 87
p0 1249 ± 0.9609
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

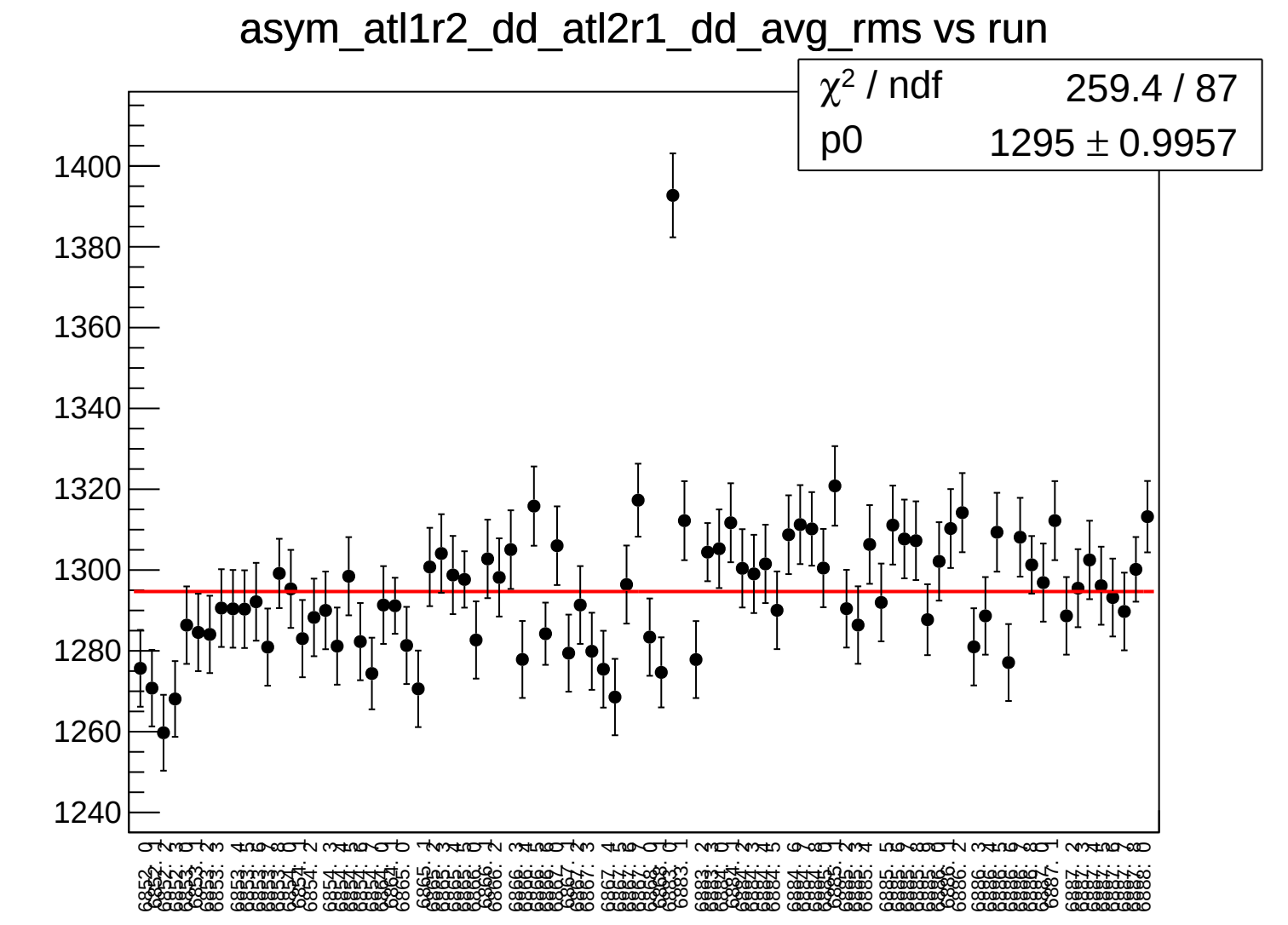

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 106 / 87
p0 −904.2 ± 400.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 116.7
Std Dev 0
3
2
1
0
−1
−2
−3

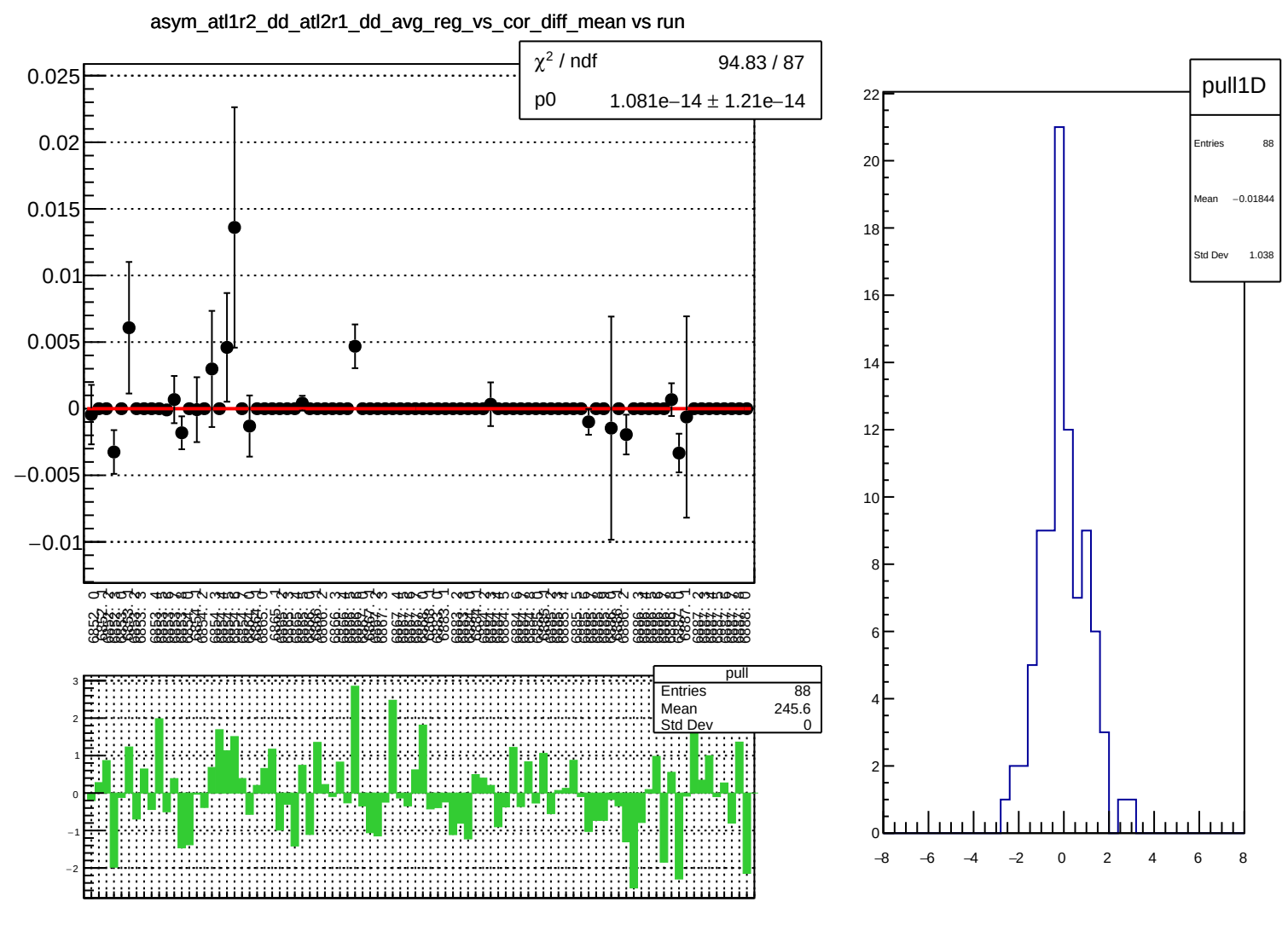

pull1D
Entries 88
Mean 0.02732
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

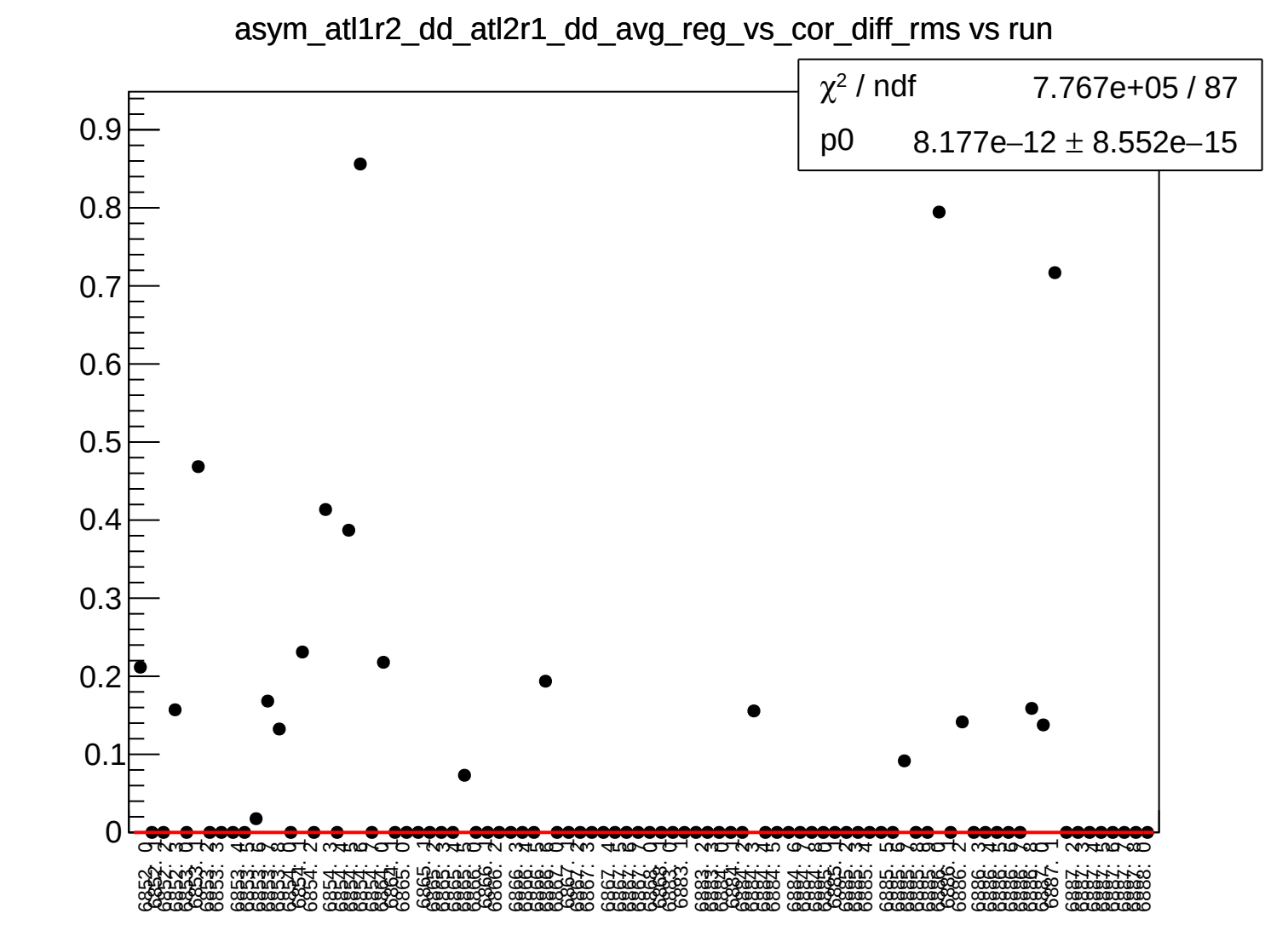

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.213e+04 / 87
p0 367.3 ± 0.2835
440
420
400
380
360
340
320
300

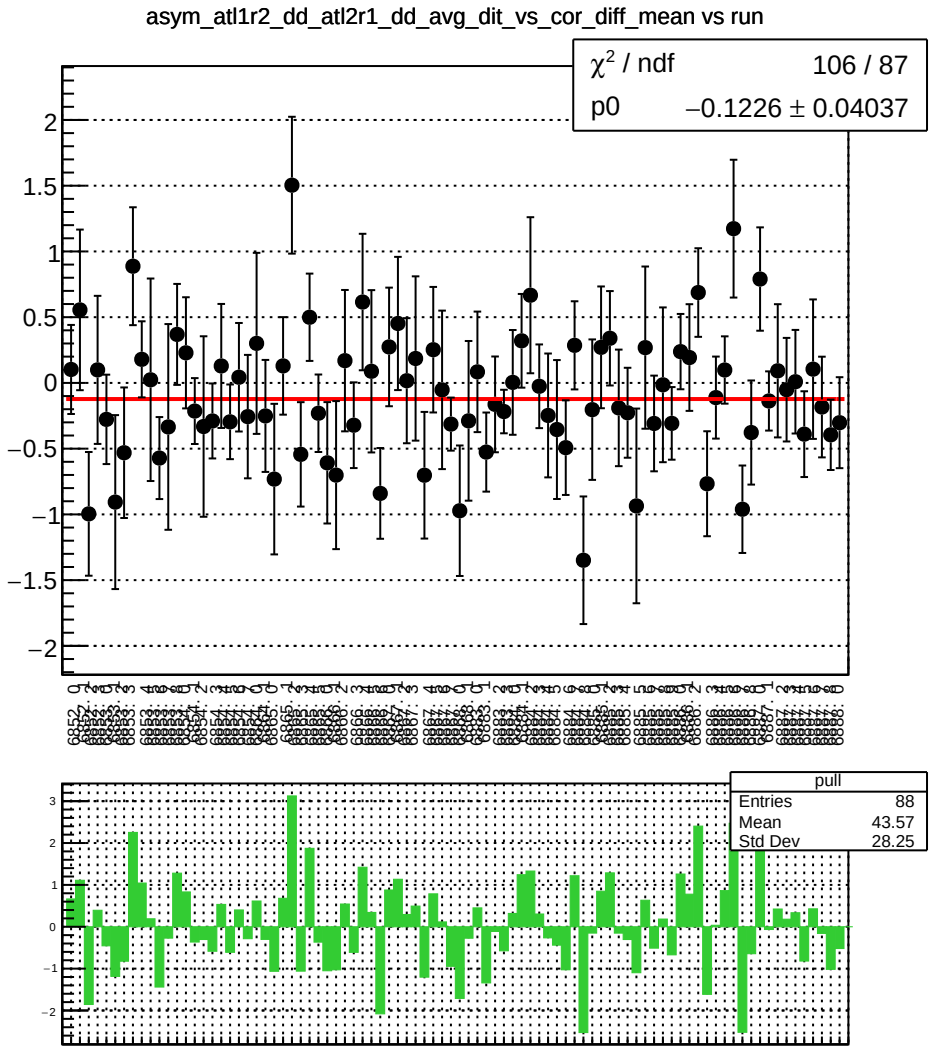

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 96.24 / 87
p0 1892 ± 1408
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 406.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

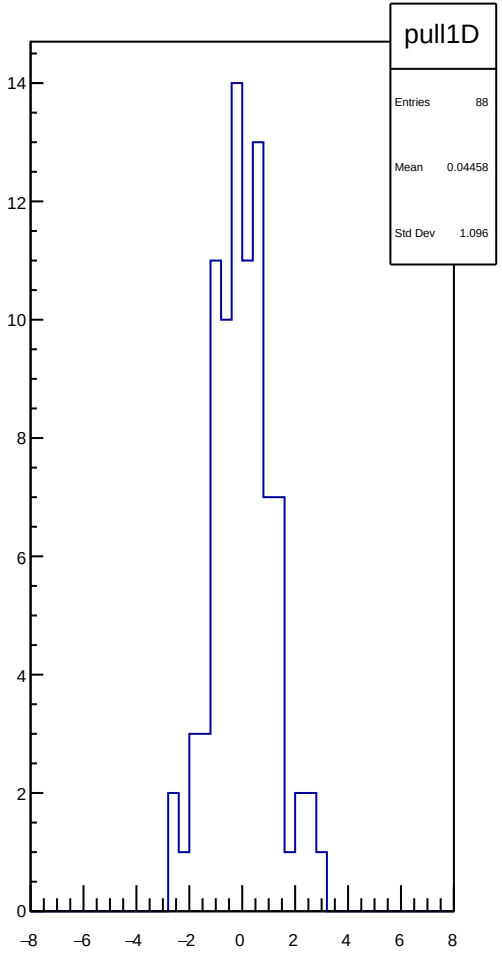

pull1D
Entries 88
Mean 0.006093
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

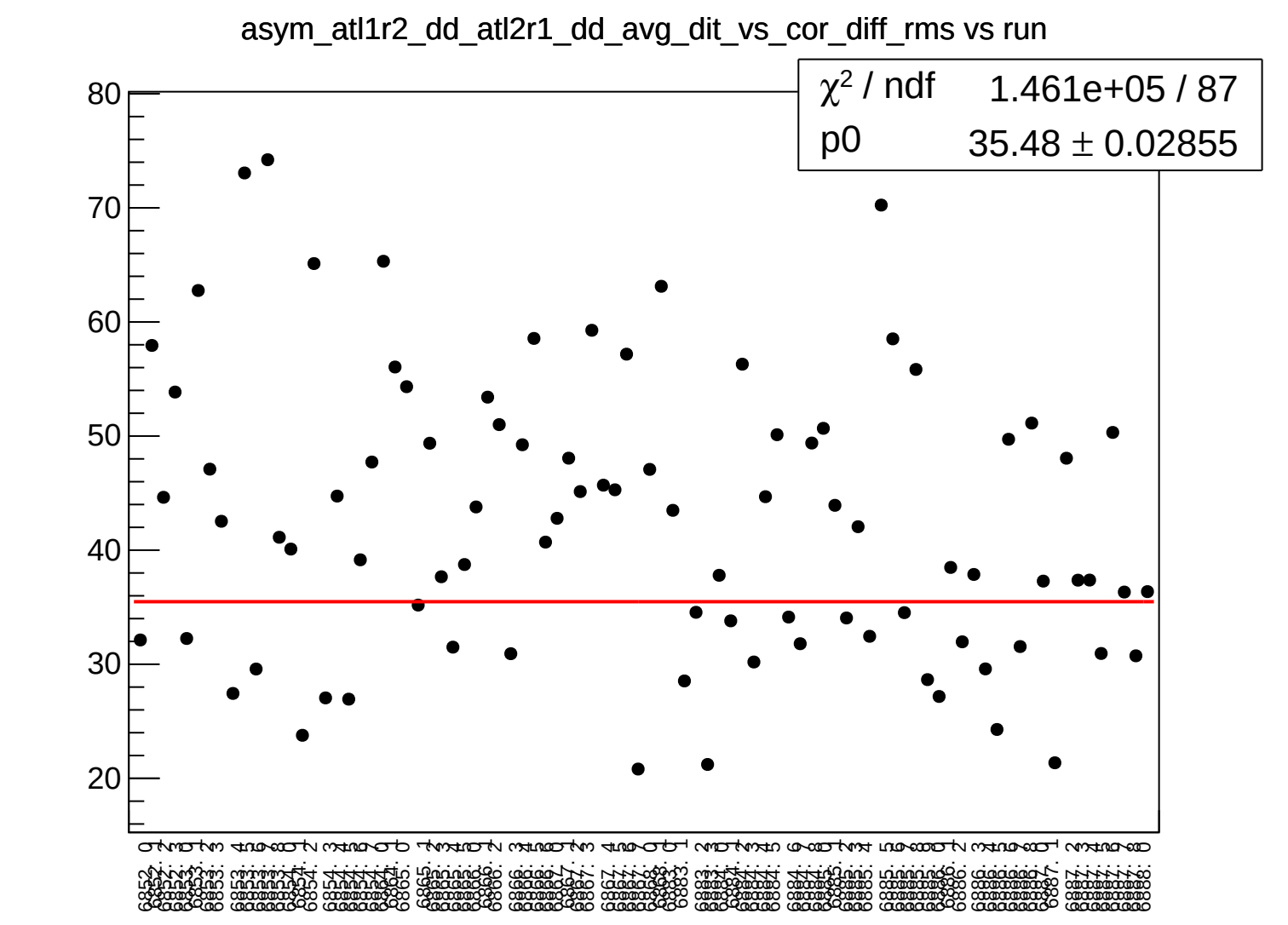

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 259.4 / 87
p0 1295 ± 0.9957
1400
1380
1360
1340
1320
1300
1280
1260
1240

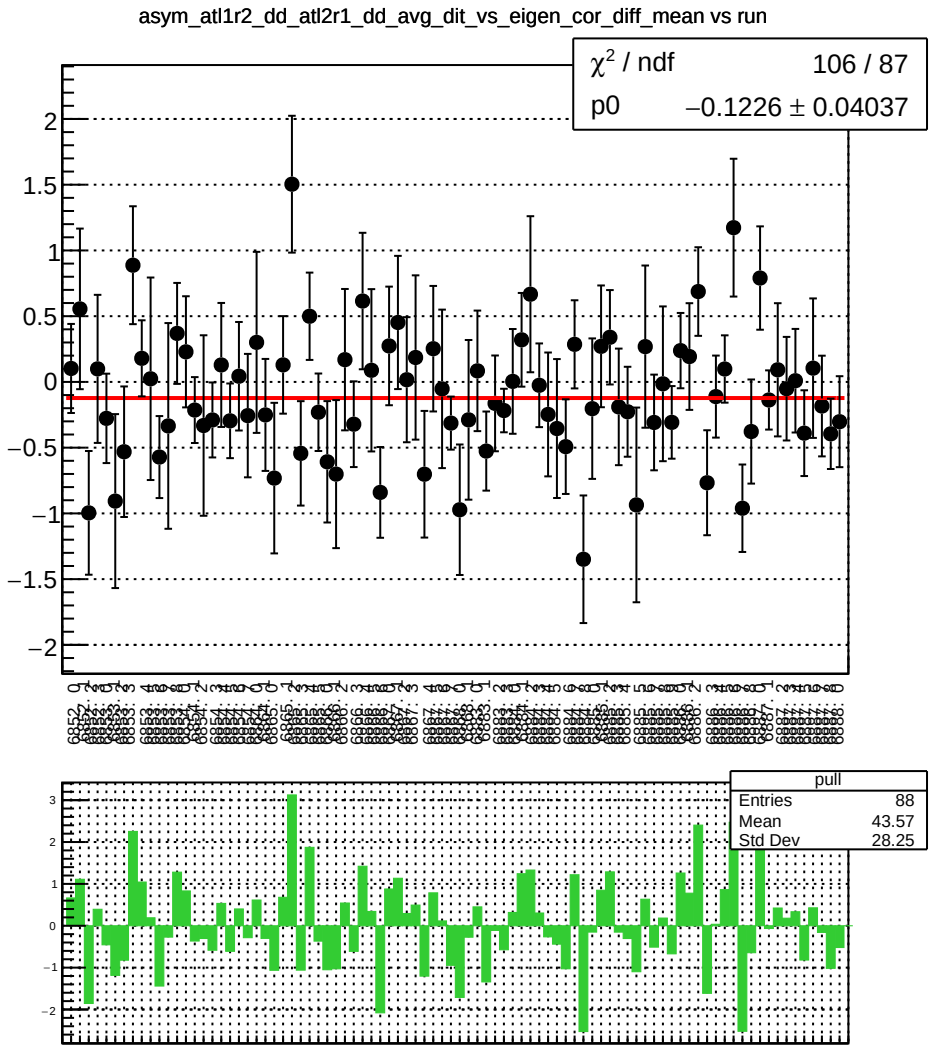

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.83 / 87
p0 1.081e−14 ± 1.21e−14
pull
Entries 88
Mean 245.6
Std Dev 0
pull1D
Entries 88
Mean −0.01844
Std Dev 1.038

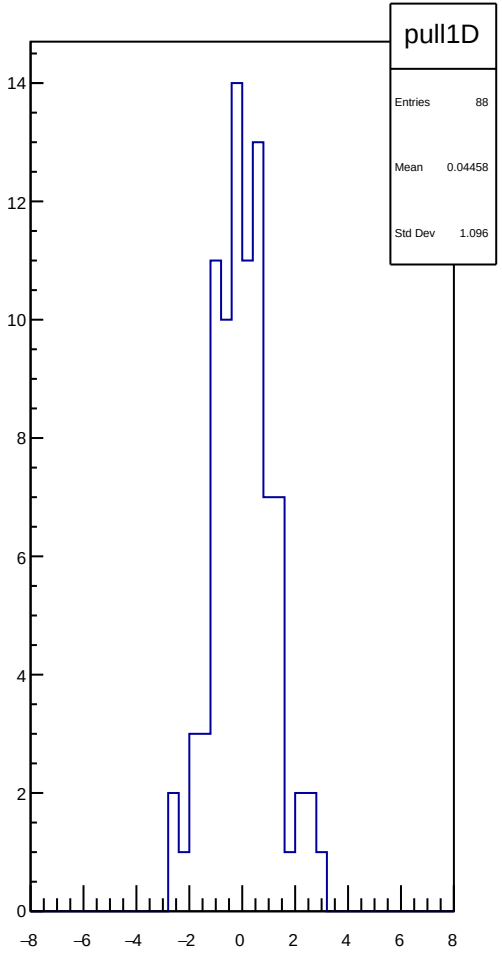

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 7.767e+05 / 87
p0 8.177e−12 ± 8.552e−15
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

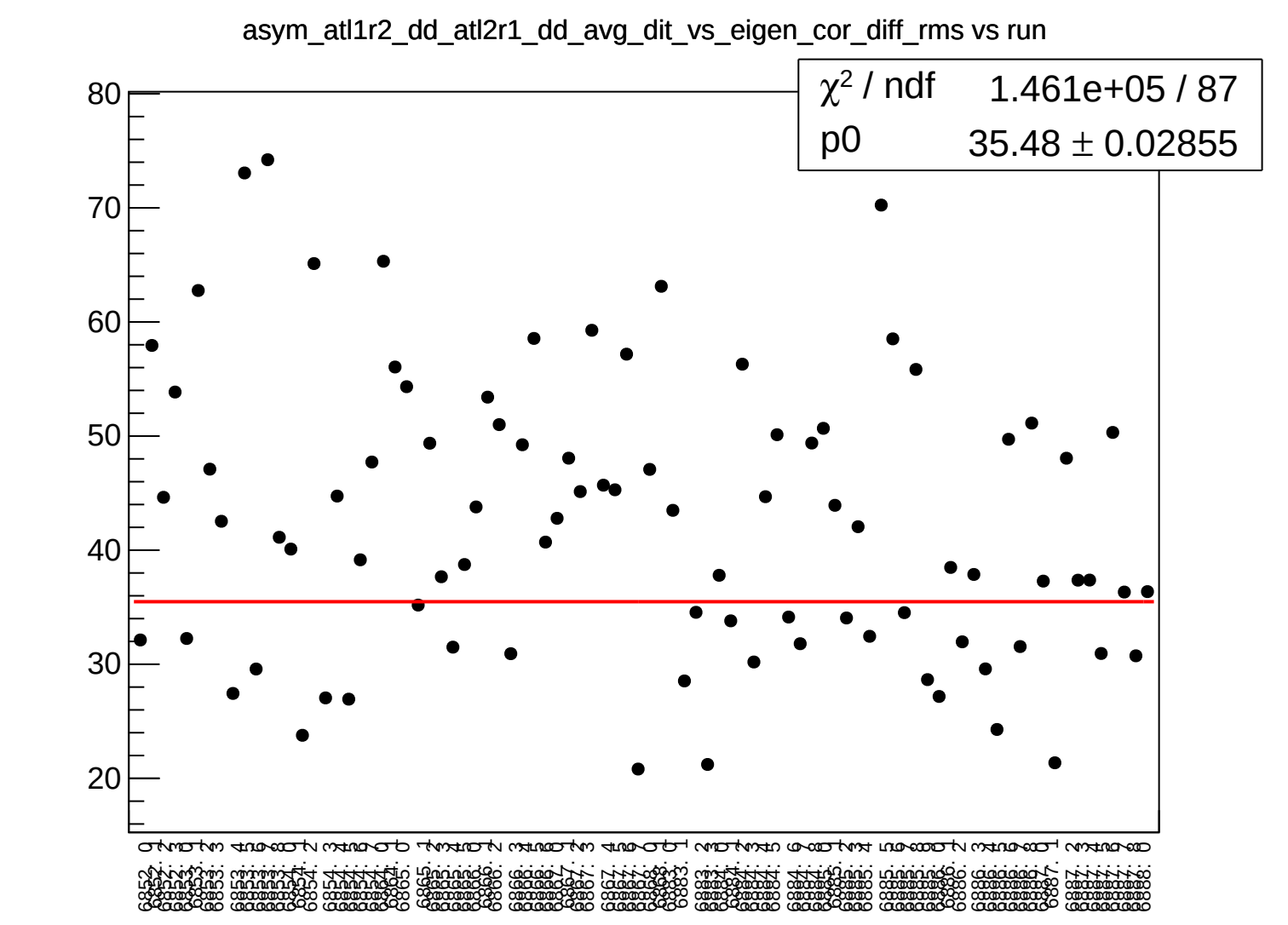

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106 / 87
p0 −0.1226 ± 0.04037
pull
Entries 88
Mean 43.57
Std Dev 28.25

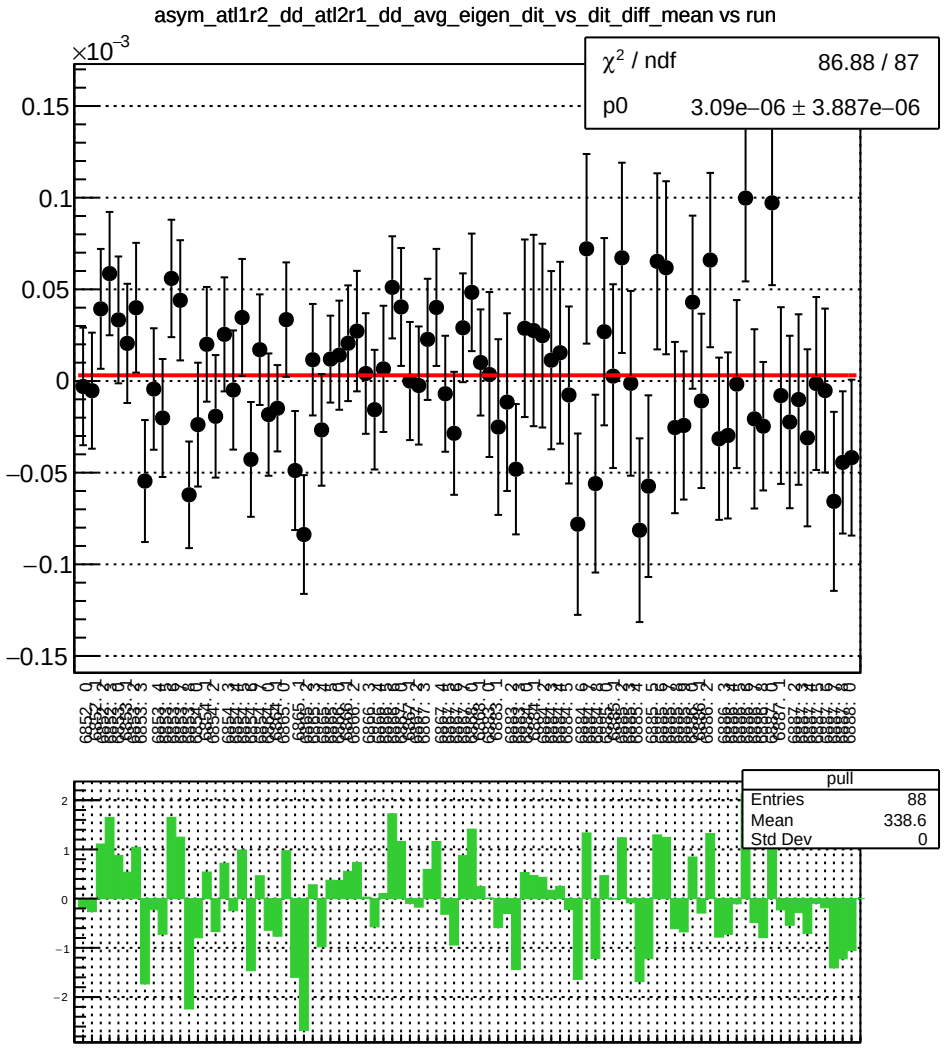

pull1D
Entries 88
Mean 0.04458
Std Dev 1.096

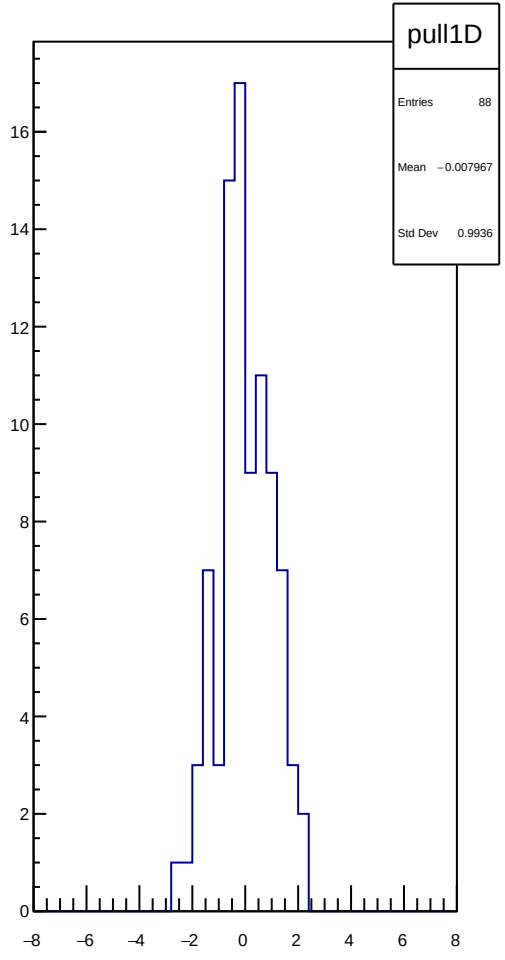

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.461e+05 / 87
p0 35.48 ± 0.02855
80
70
60
50
40
30
20

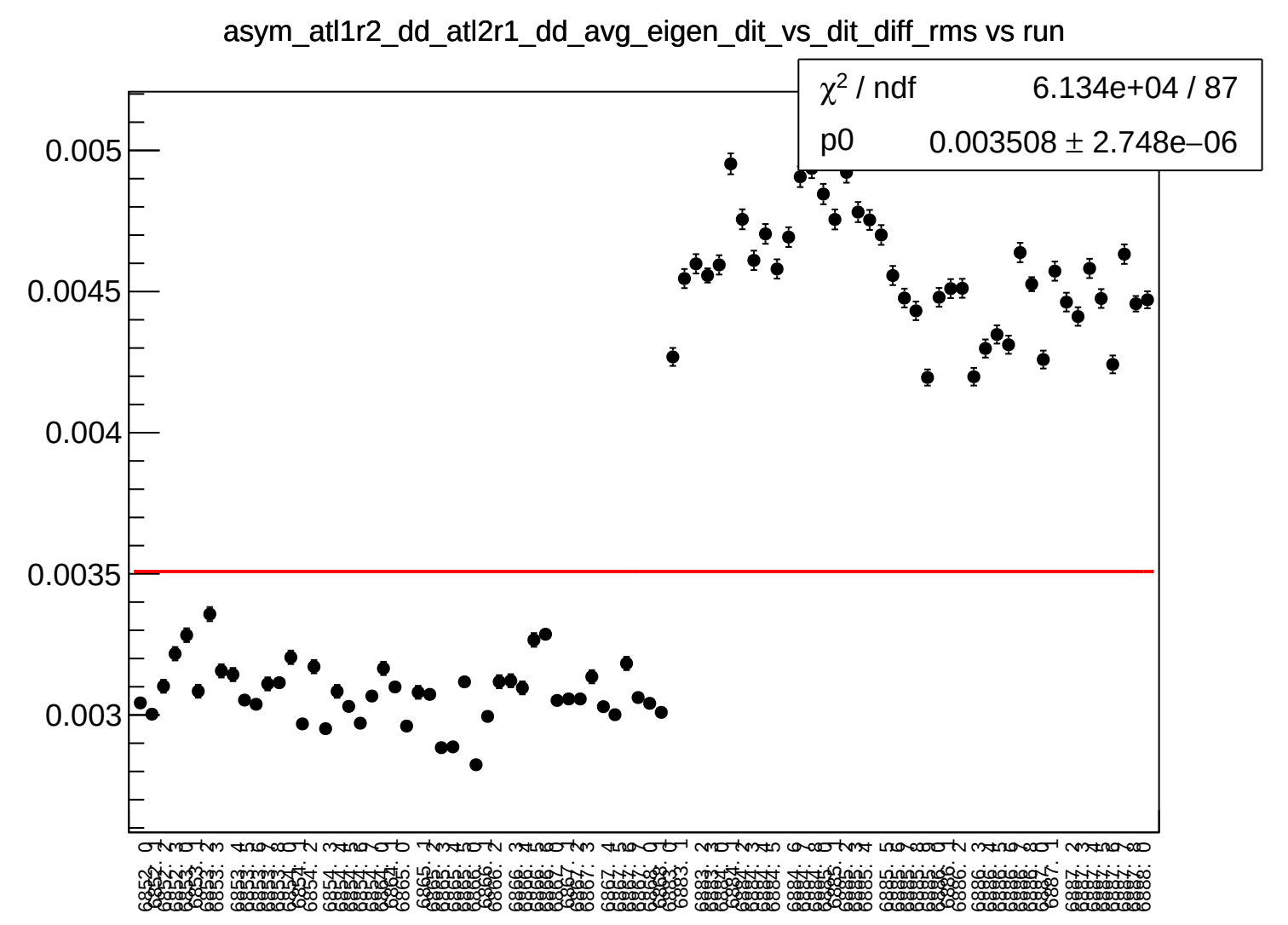

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106 / 87
p0 −0.1226 ± 0.04037
pull
Entries 88
Mean 43.57
Std Dev 28.25

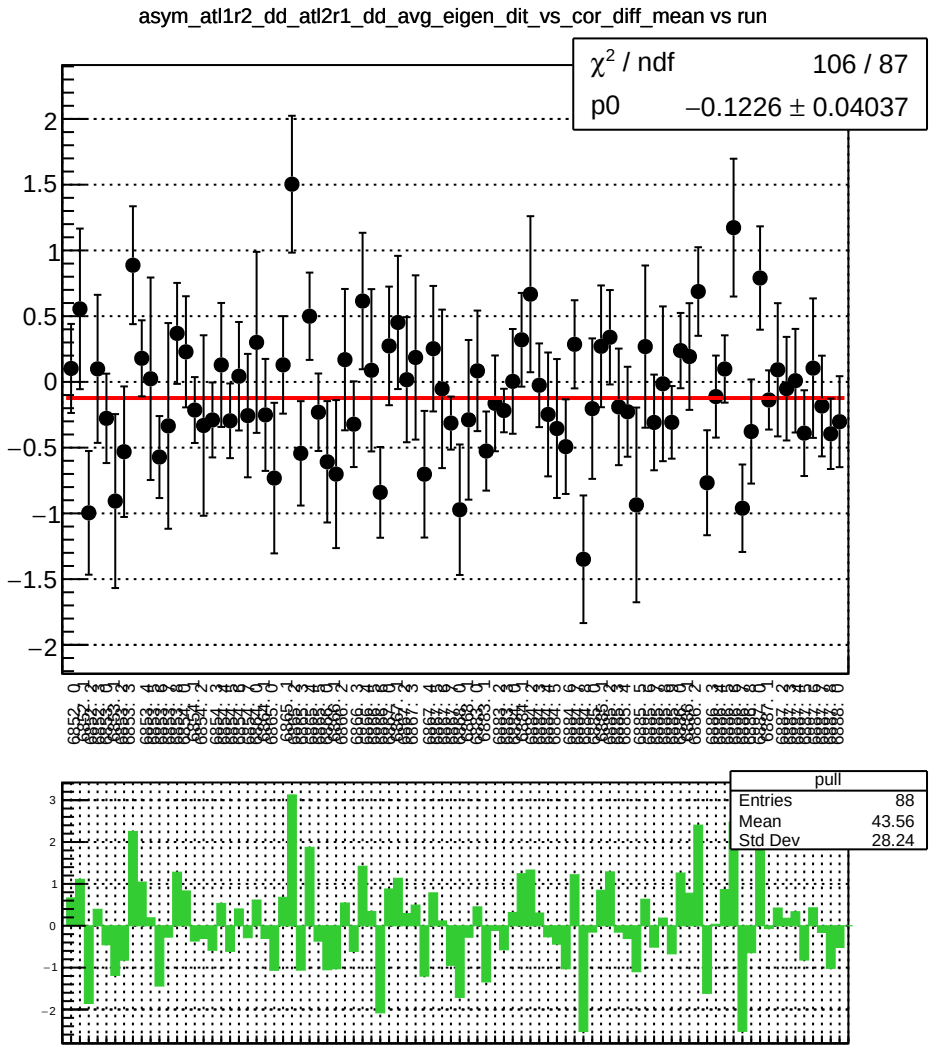

pull1D
Entries 88
Mean 0.04458
Std Dev 1.096

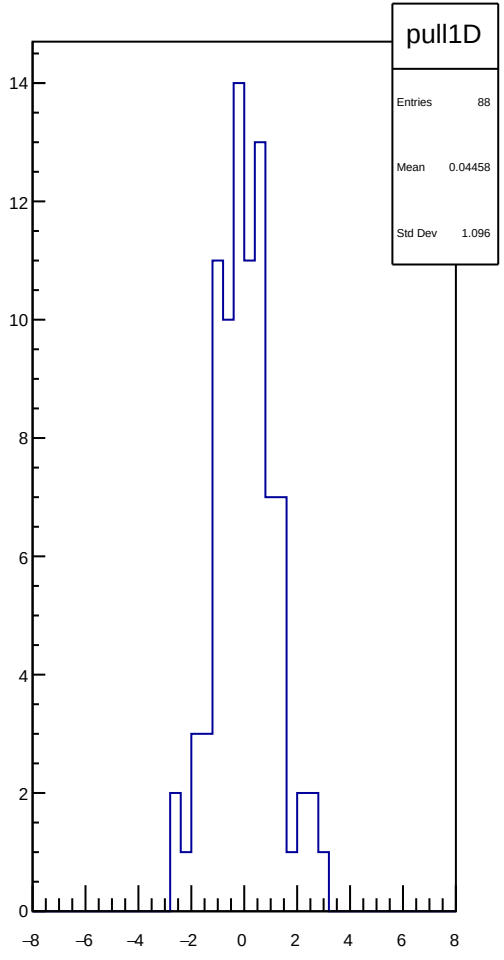

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.461e+05 / 87
p0 35.48 ± 0.02855
80
70
60
50
40
30
20

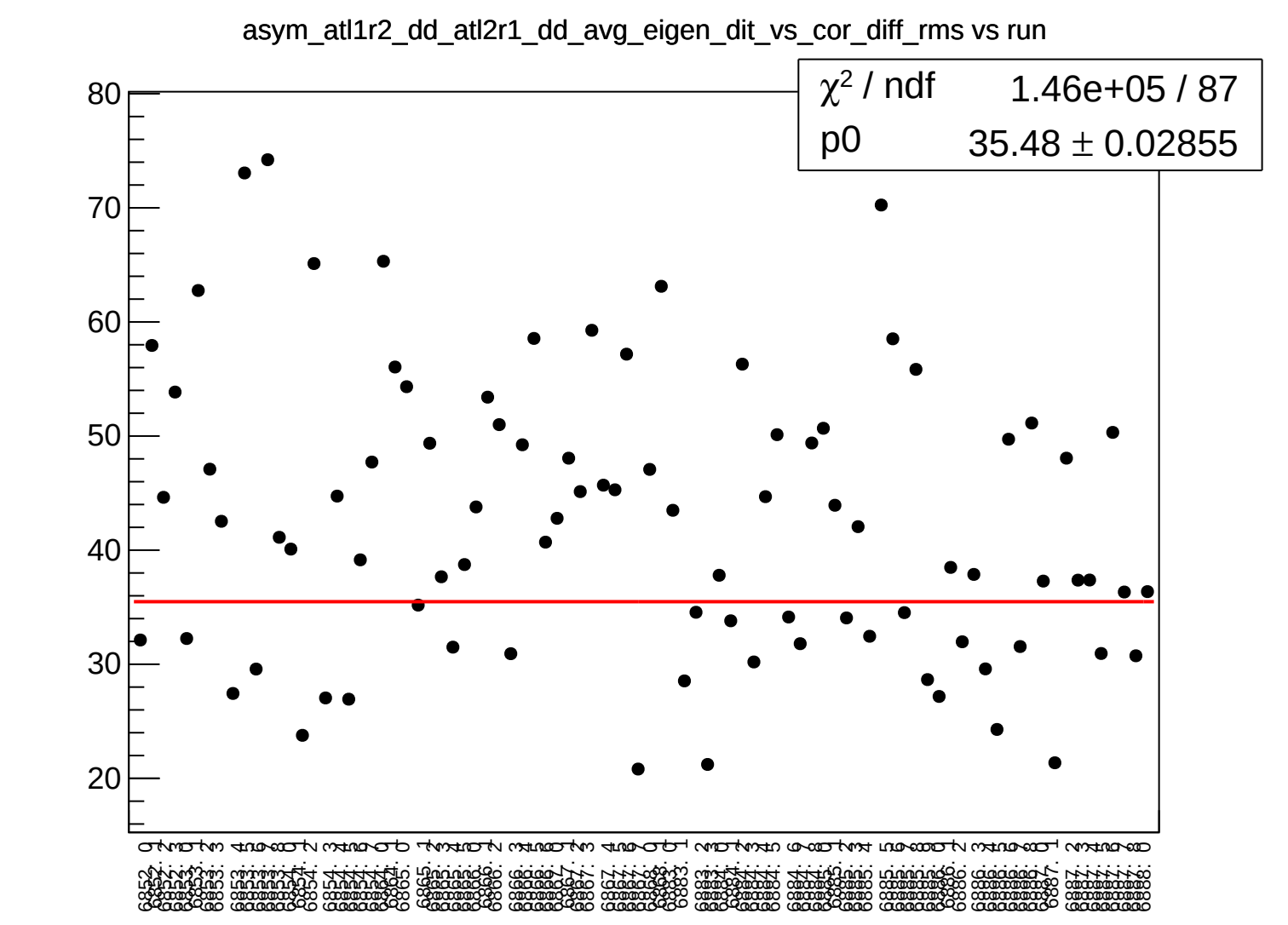

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.88 / 87
p0 3.09e−06 ± 3.887e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 338.6
Std Dev 0
2
1
0
−1
−2

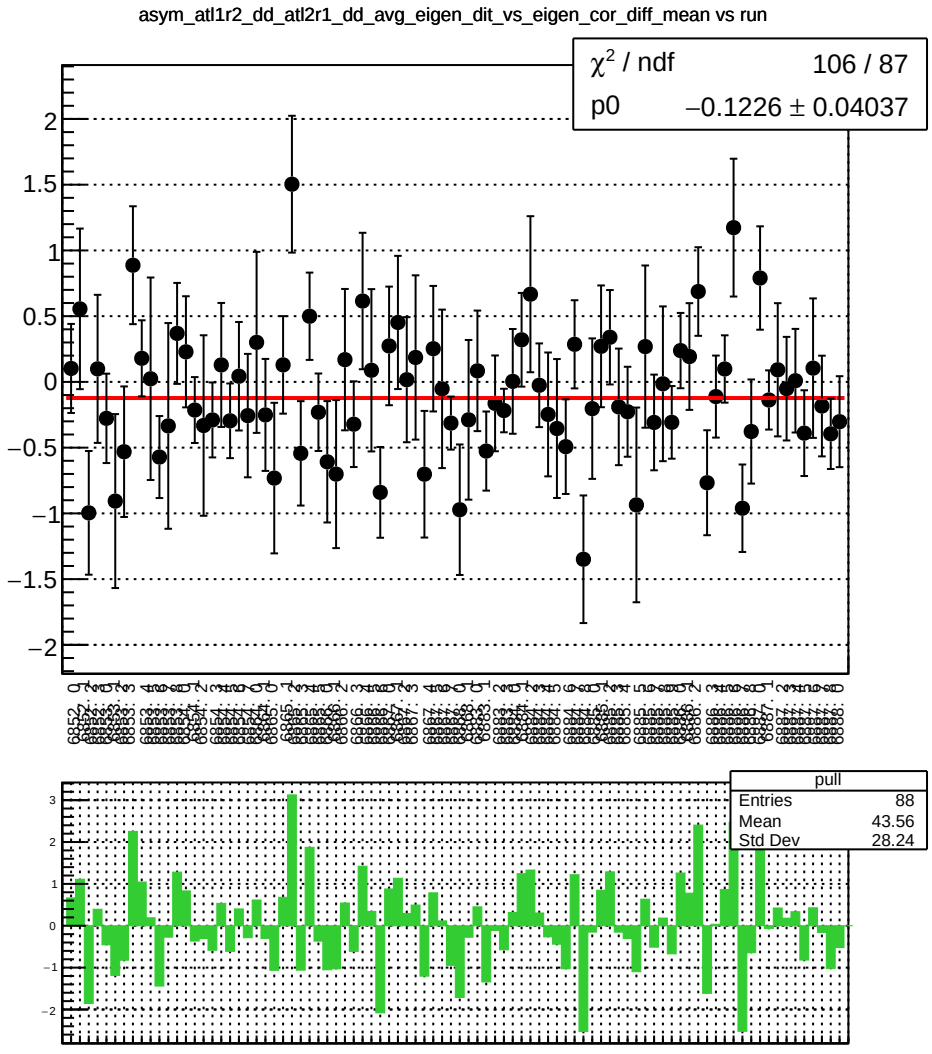

pull1D
Entries 88
Mean −0.007967
Std Dev 0.9936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

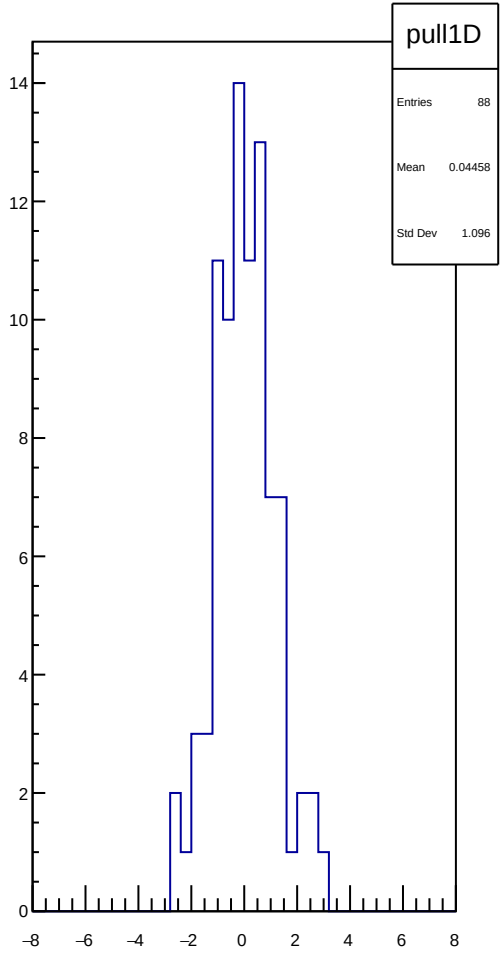

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.134e+04 / 87
p0 0.003508 ± 2.748e−06
0.005
0.0045
0.004
0.0035
0.003


asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106 / 87
p0 −0.1226 ± 0.04037
pull
Entries 88
Mean 43.56
Std Dev 28.24

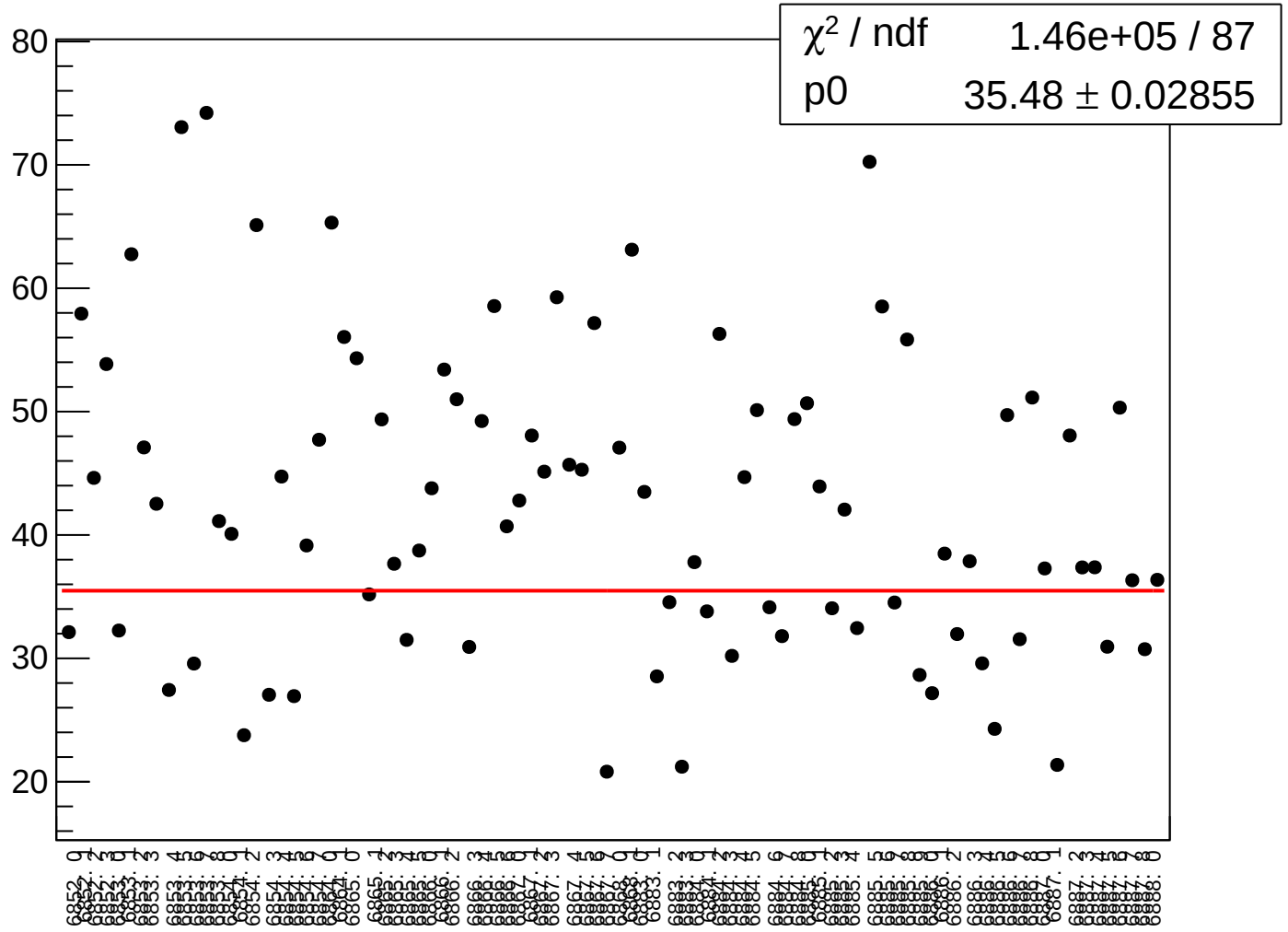

pull1D
Entries 88
Mean 0.04458
Std Dev 1.096

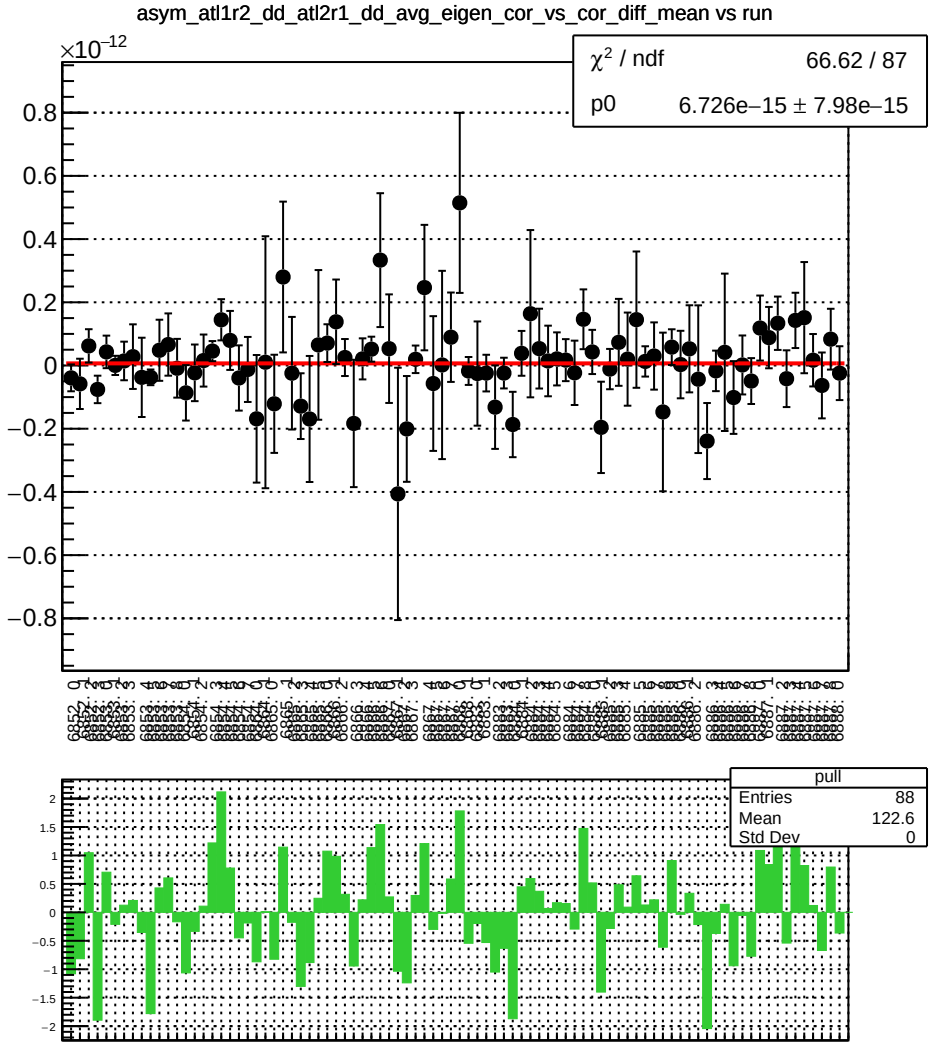

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.46e+05 / 87
p0 35.48 ± 0.02855
80
70
60
50
40
30
20

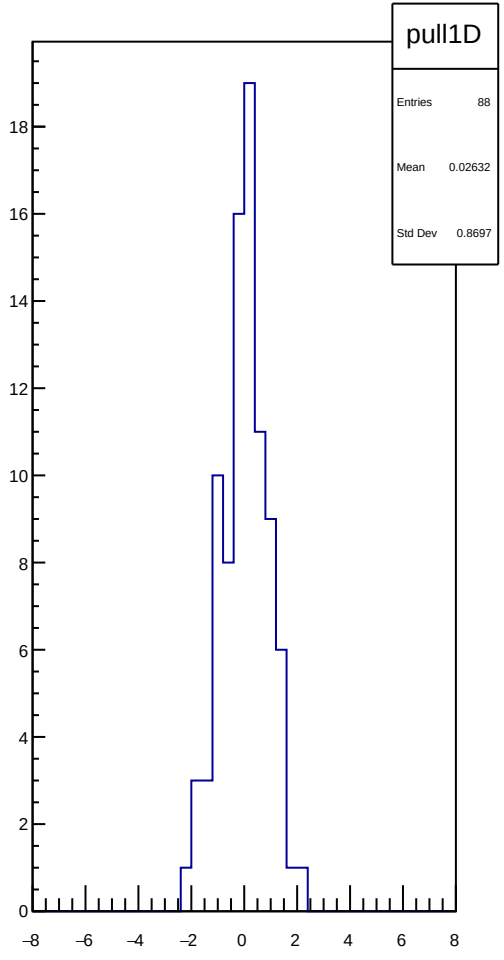

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106 / 87
p0 −0.1226 ± 0.04037
pull
Entries 88
Mean 43.56
Std Dev 28.24

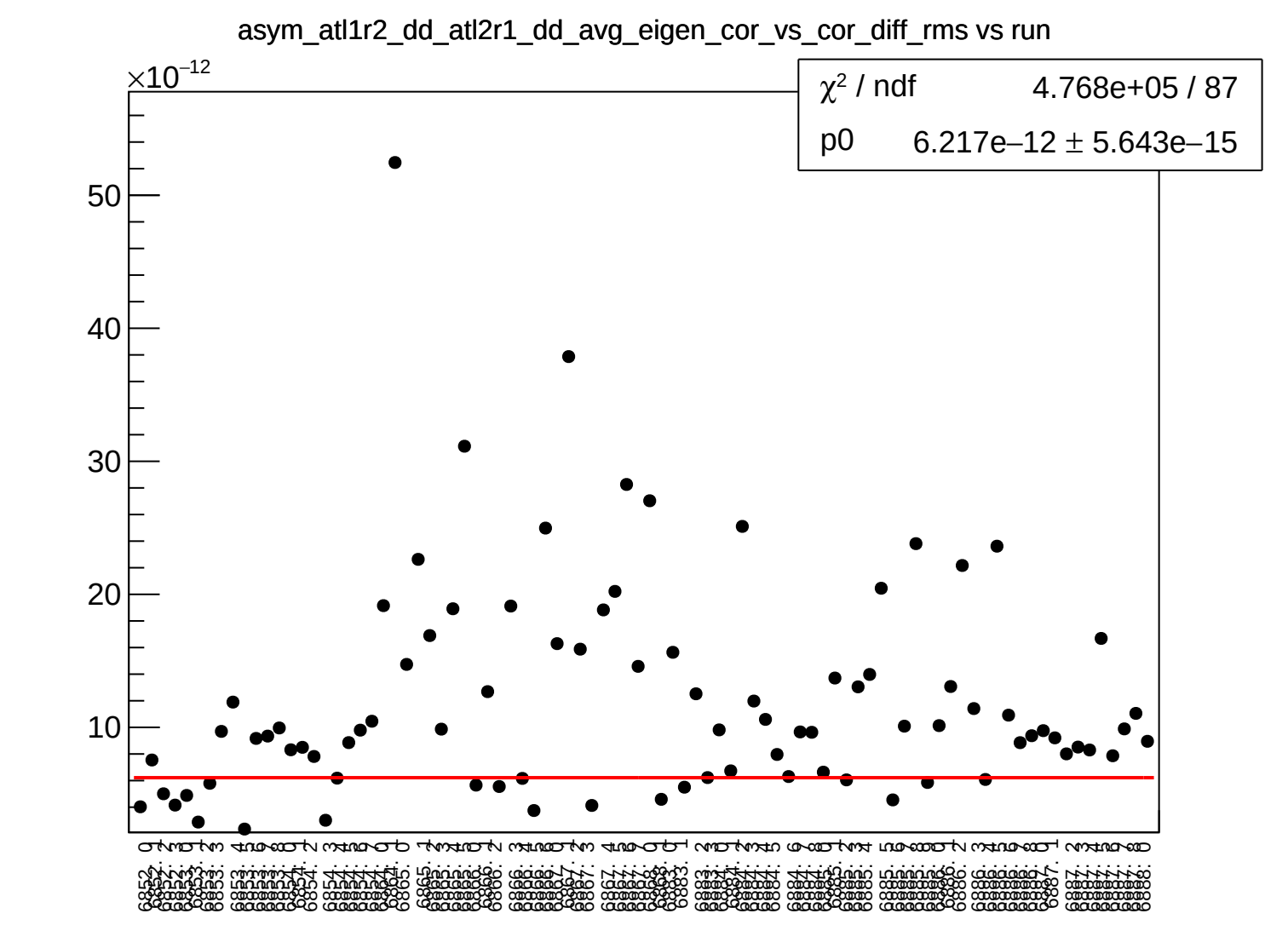

pull1D
Entries 88
Mean 0.04458
Std Dev 1.096

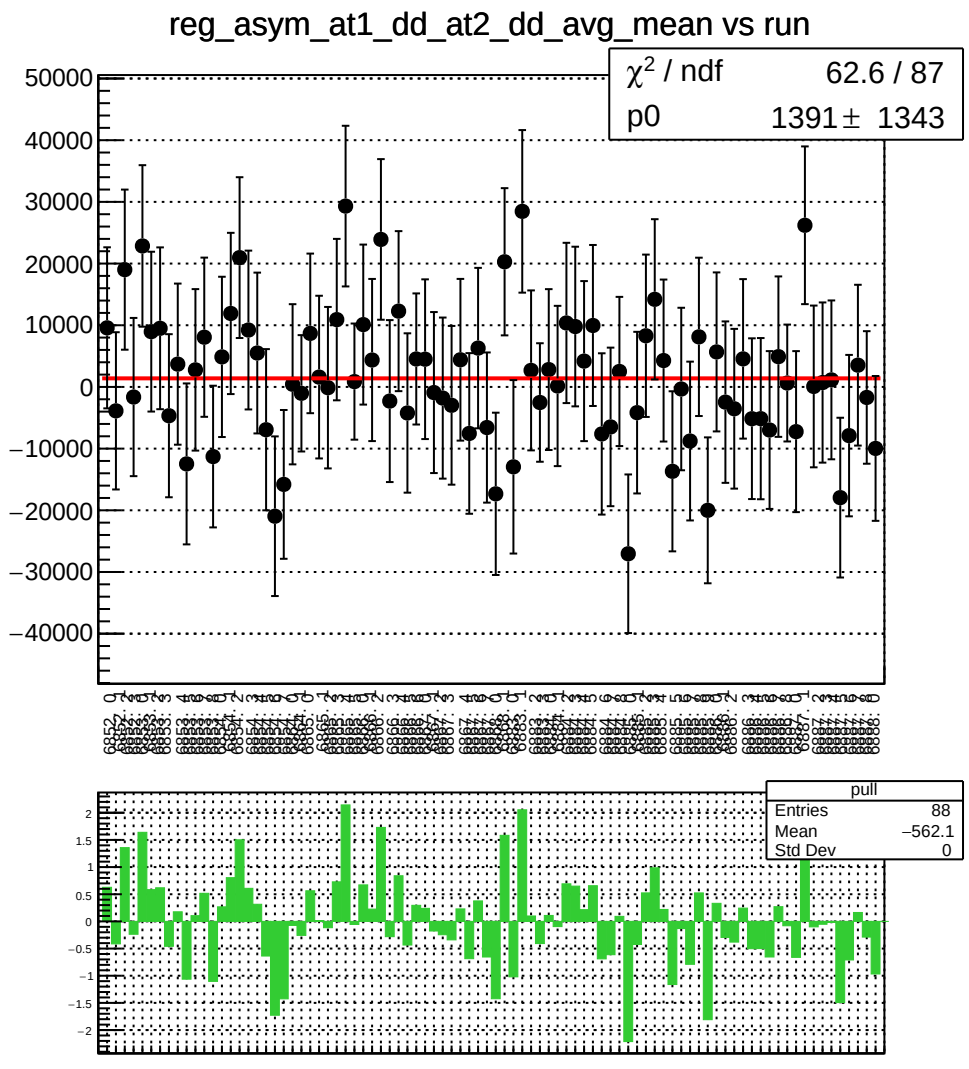
asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run

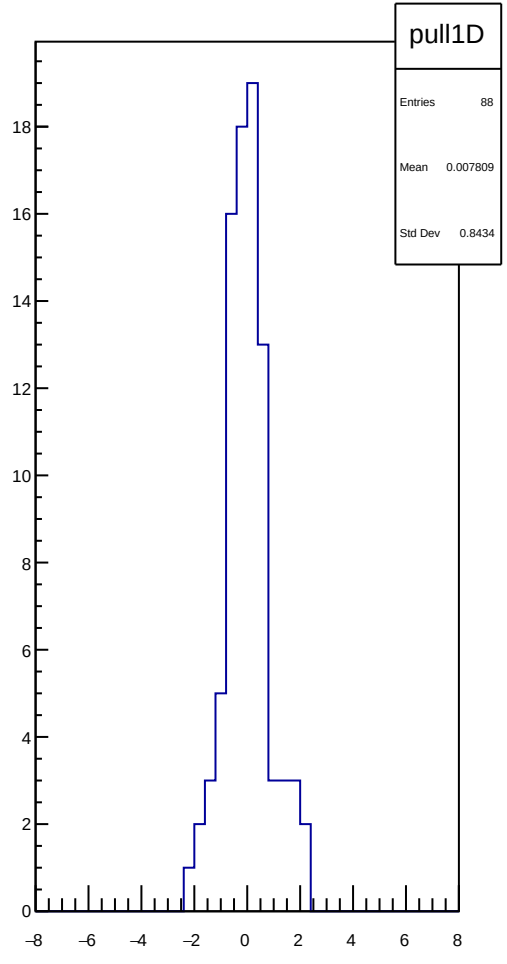


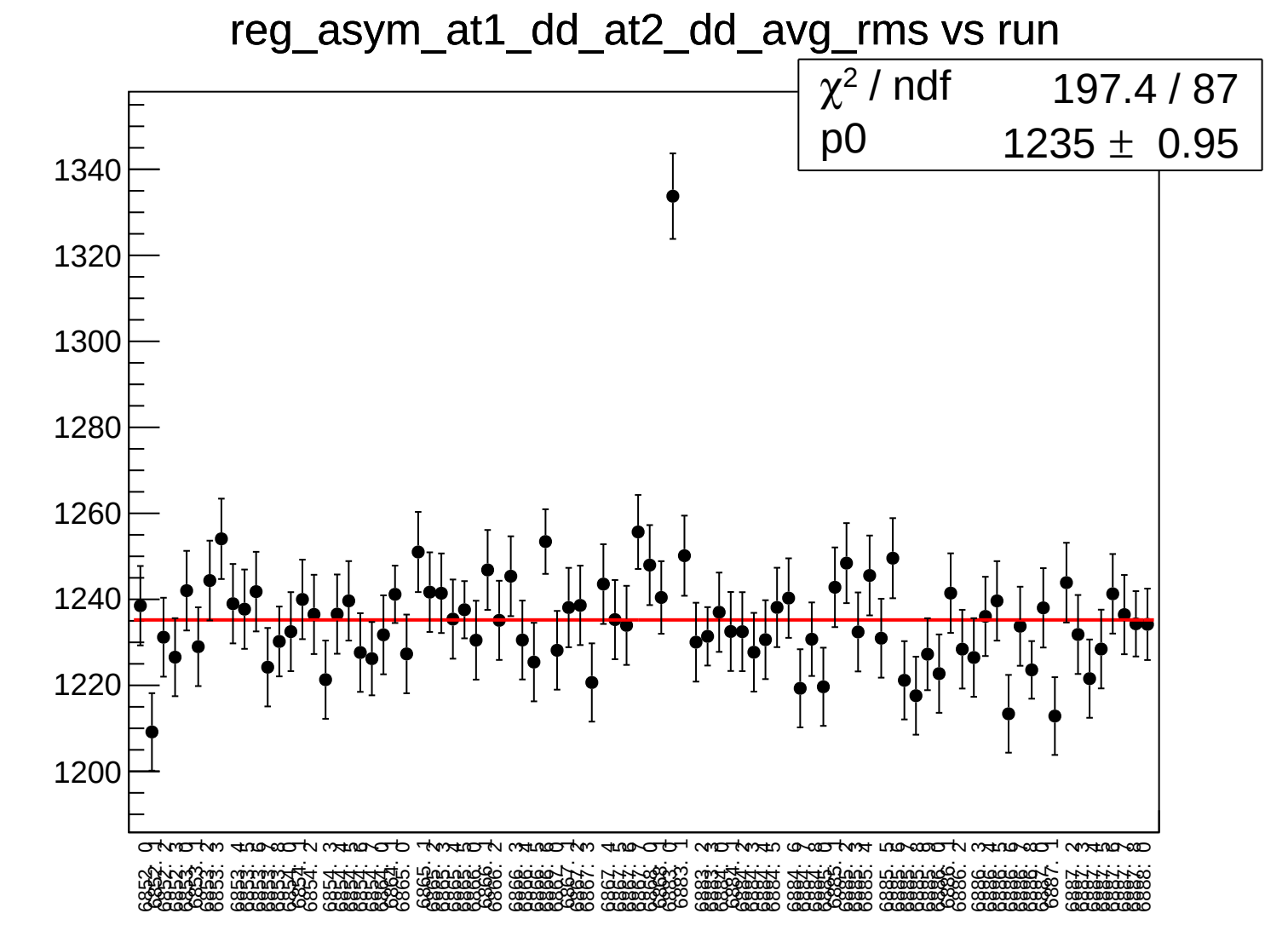

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.62 / 87
p0 6.726e−15 ± 7.98e−15
pull
Entries 88
Mean 122.6
Std Dev 0

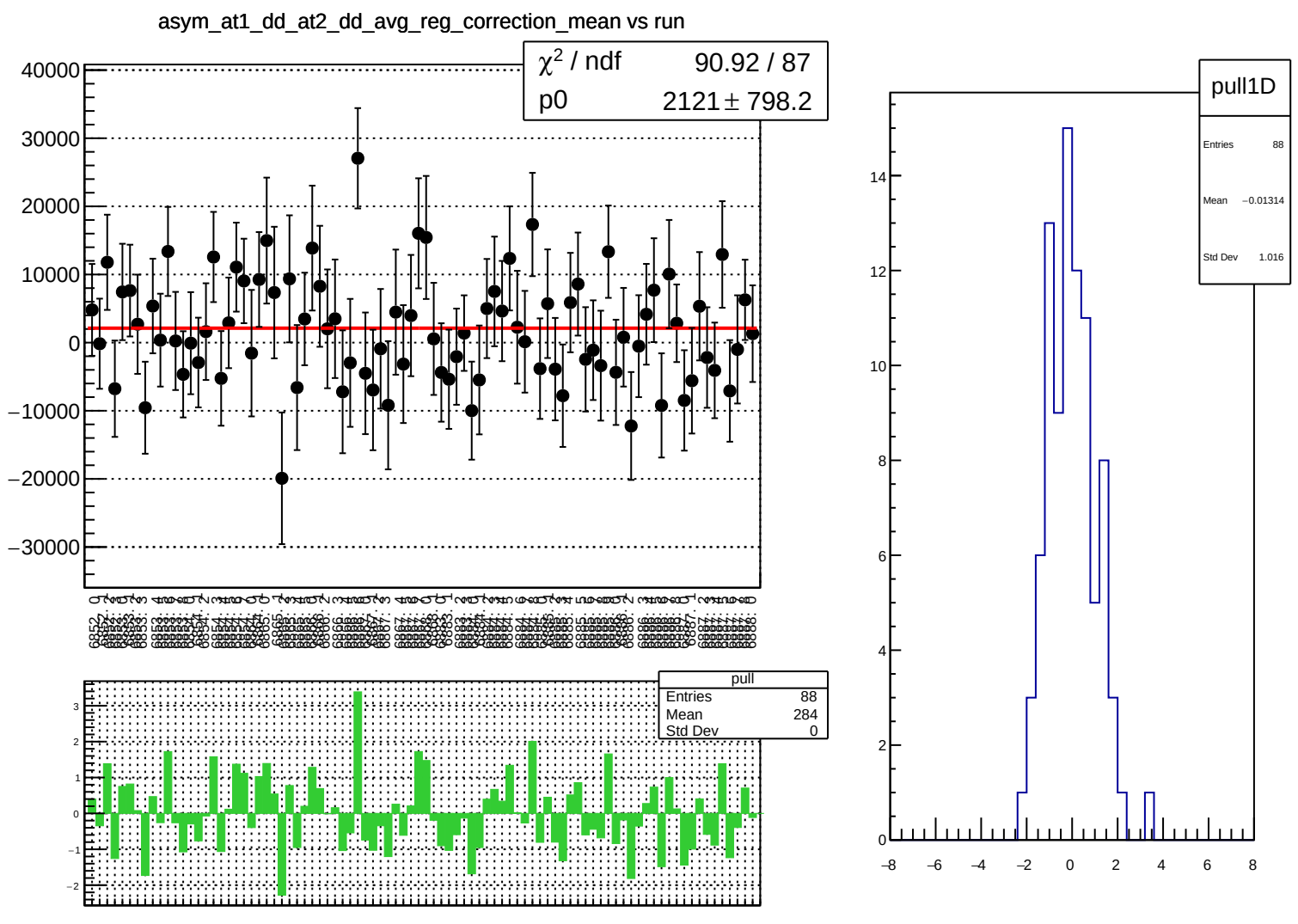

pull1D
Entries 88
Mean 0.02632
Std Dev 0.8697

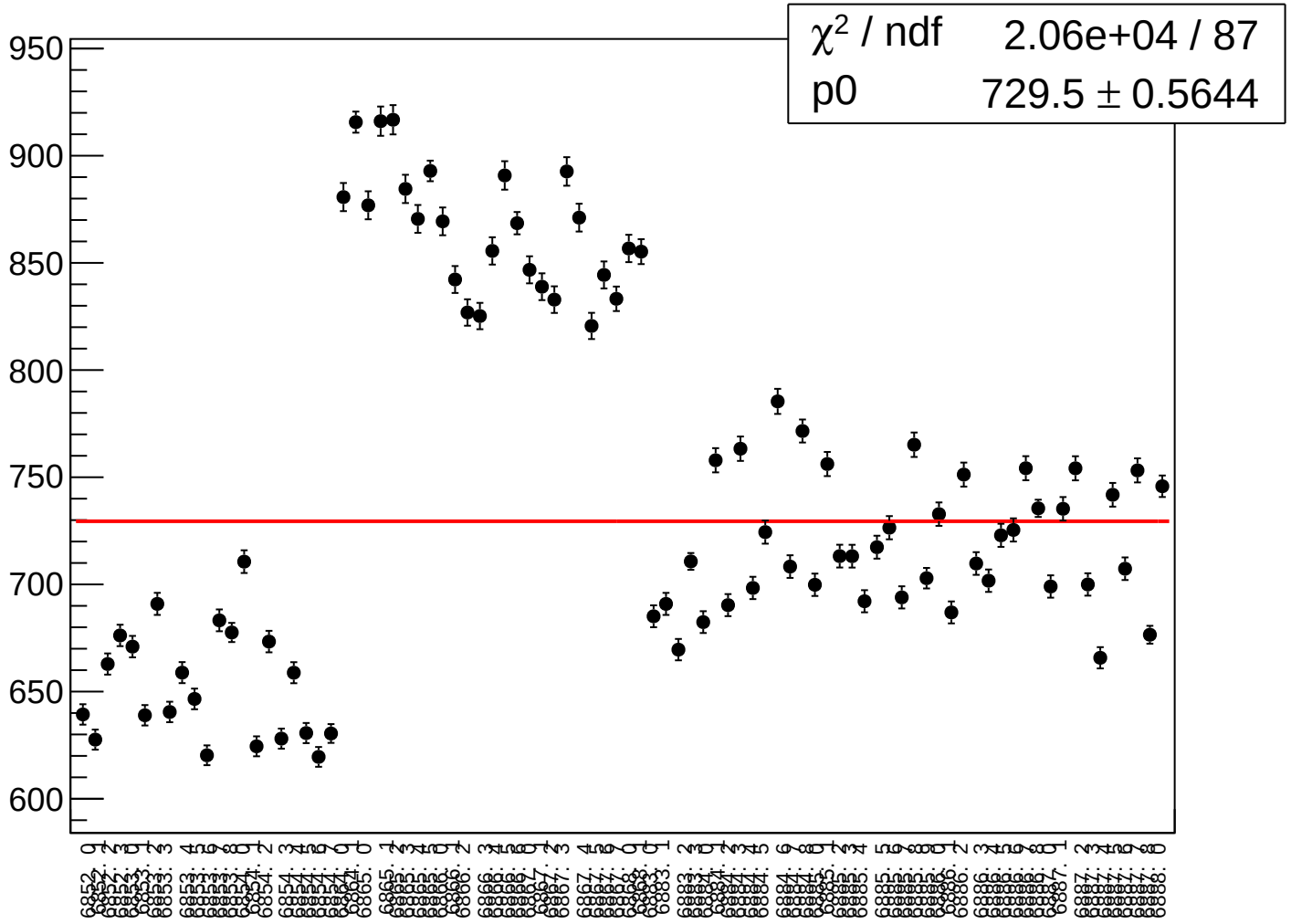

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.768e+05 / 87
p0 6.217e−12 ± 5.643e−15
50
40
30
20
10

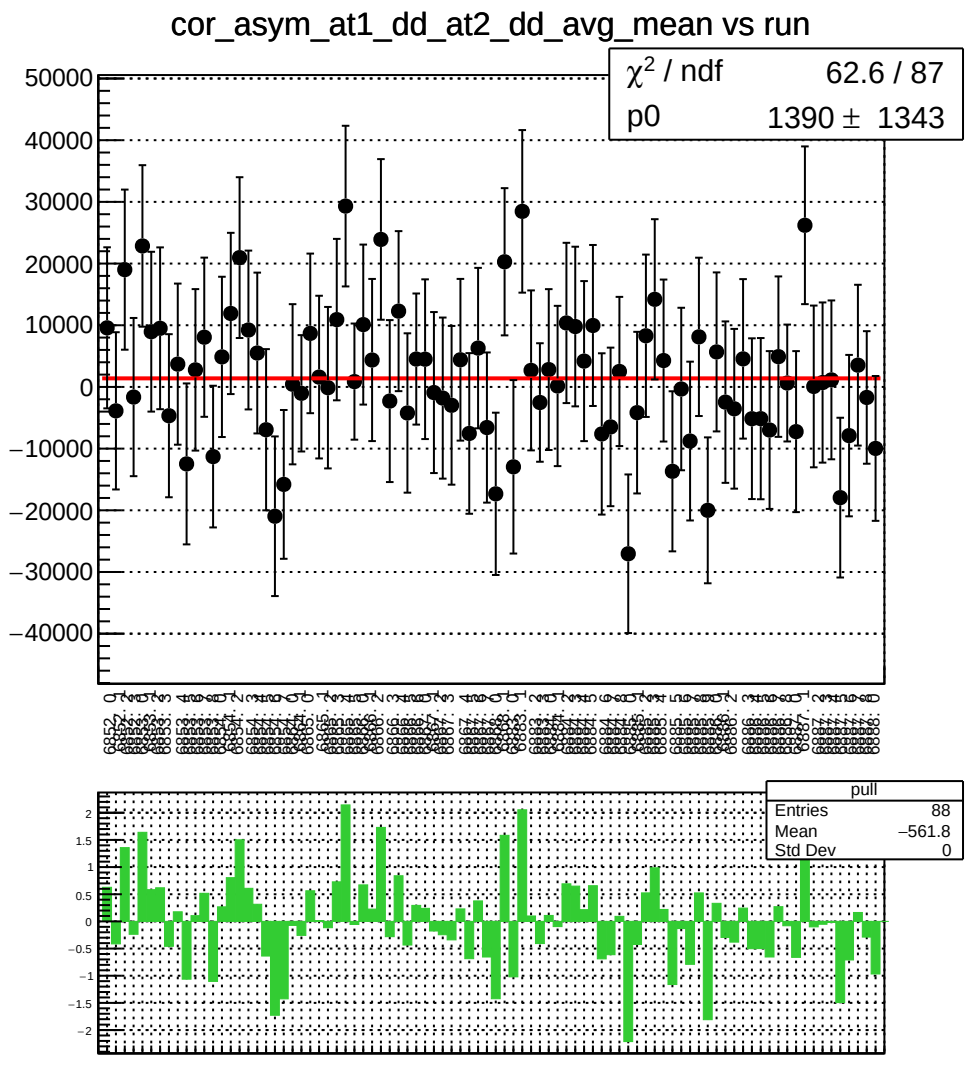

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 62.6 / 87
p0 1391 ± 1343
pull
Entries 88
Mean −562.1
Std Dev 0

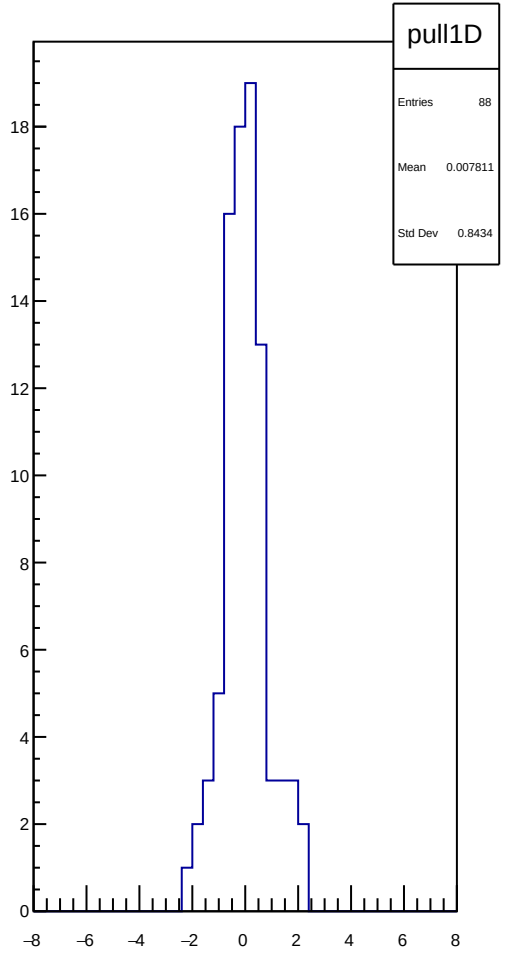

pull1D
Entries 88
Mean 0.007809
Std Dev 0.8434

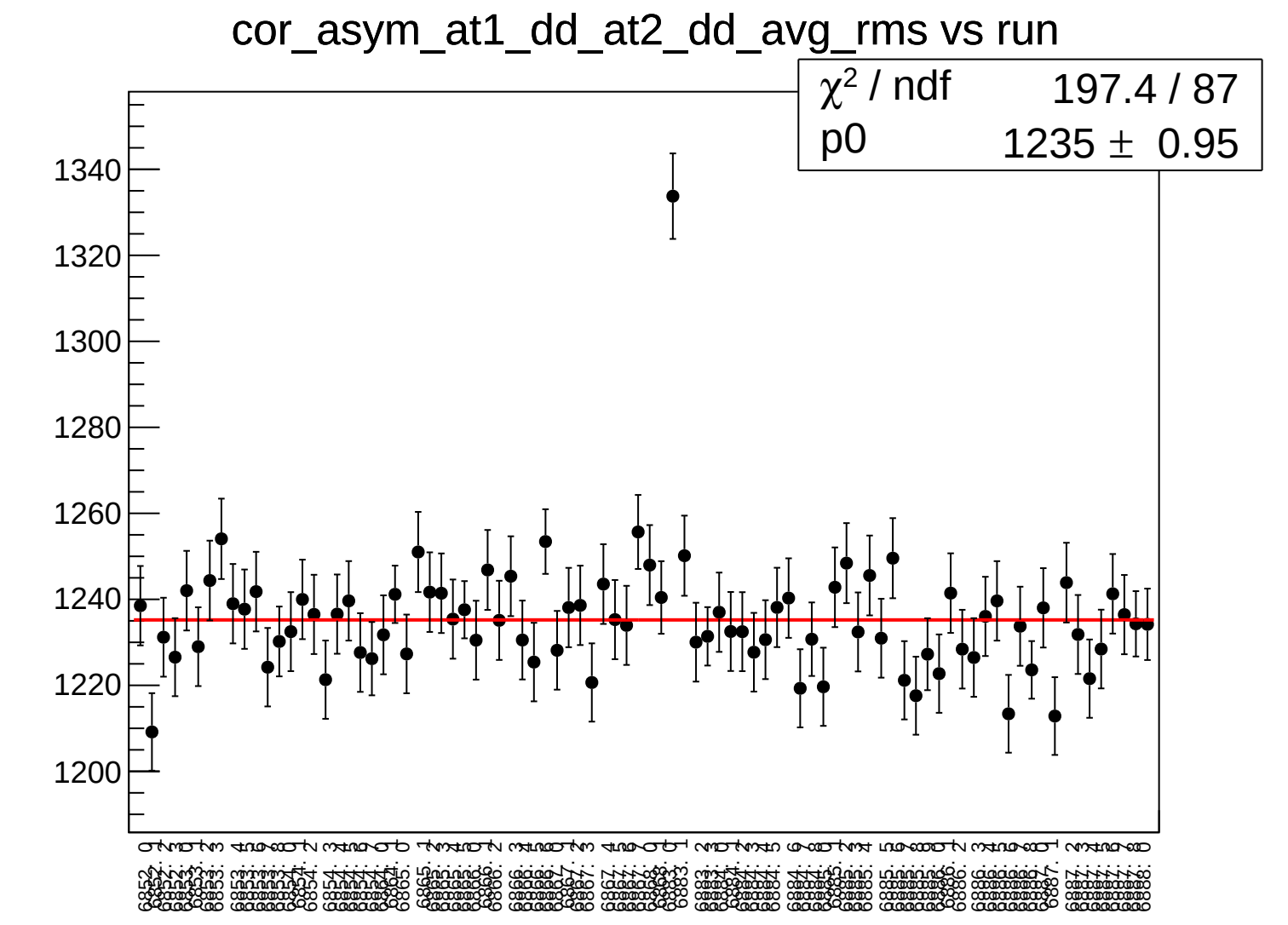

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 197.4 / 87
p0 1235 ± 0.95
1340
1320
1300
1280
1260
1240
1220
1200

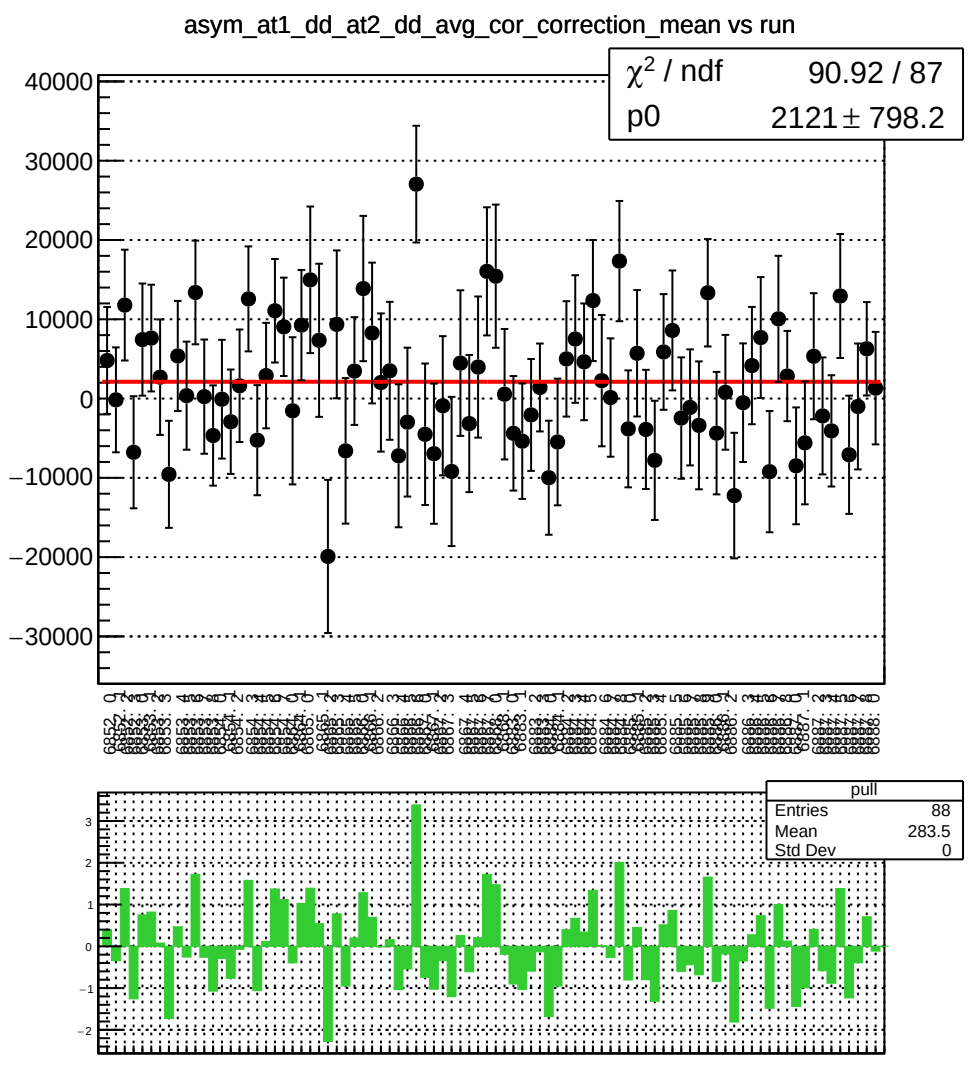

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 90.92 / 87
p0 2121 ± 798.2
pull
Entries 88
Mean 284
Std Dev 0
pull1D
Entries 88
Mean −0.01314
Std Dev 1.016

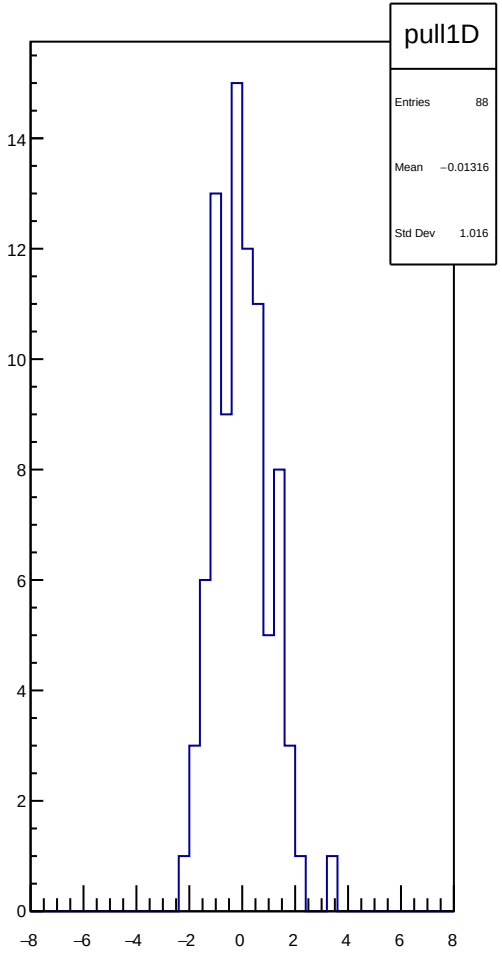

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 2.06e+04 / 87
p0 729.5 ± 0.5644
950
900
850
800
750
700
650
600

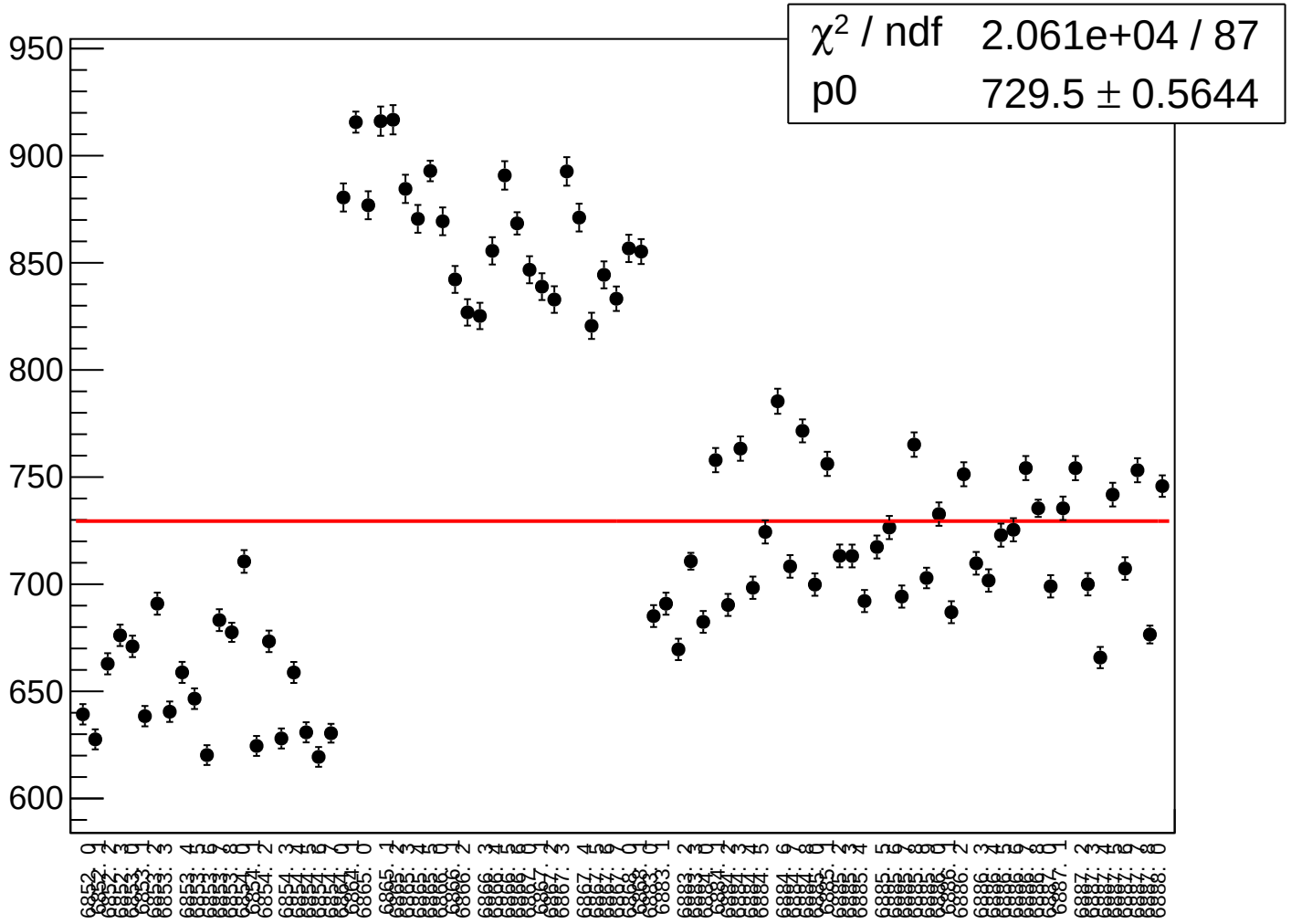

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 62.6 / 87
p0 1390 ± 1343
pull
Entries 88
Mean −561.8
Std Dev 0

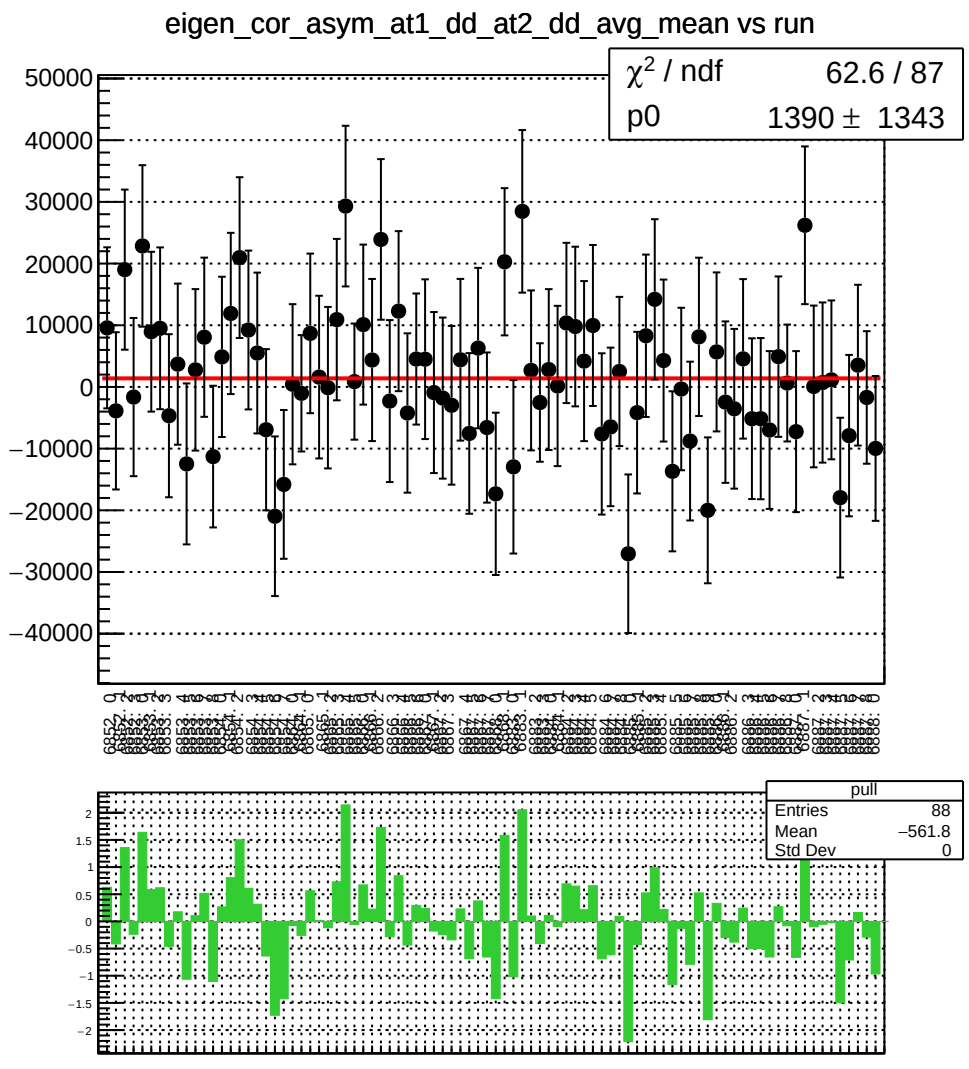

pull1D
Entries 88
Mean 0.007811
Std Dev 0.8434

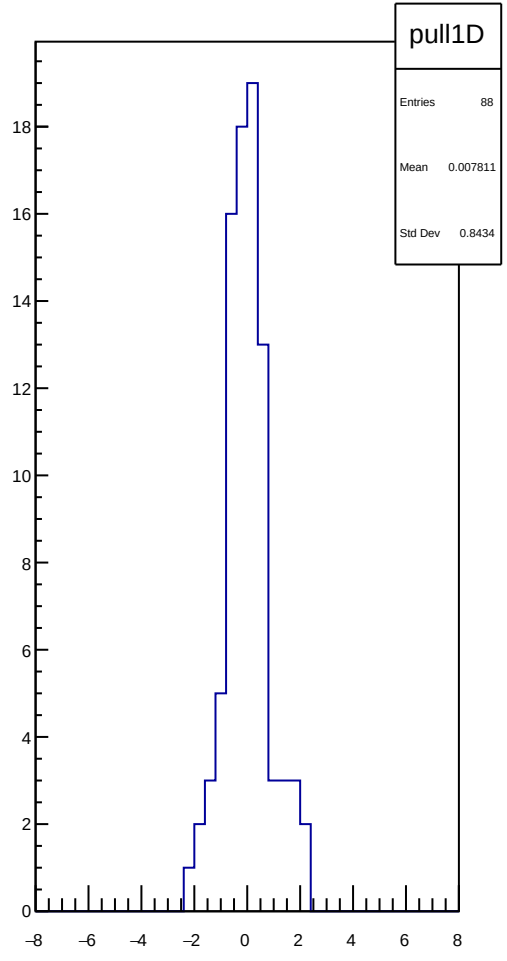

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 197.4 / 87
p0 1235 ± 0.95
1340
1320
1300
1280
1260
1240
1220
1200

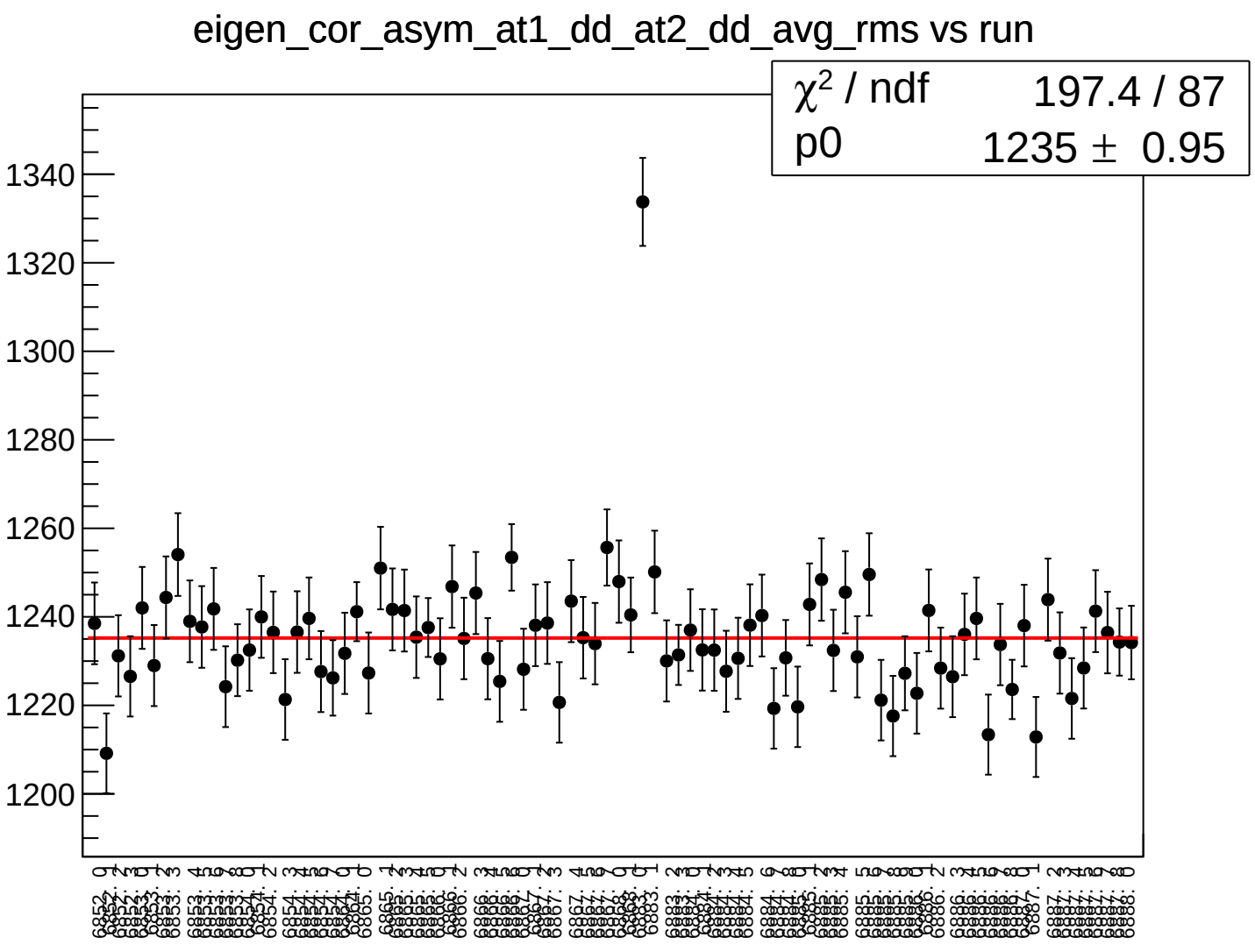

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 90.92 / 87
p0 2121 ± 798.2
pull
Entries 88
Mean 283.5
Std Dev 0

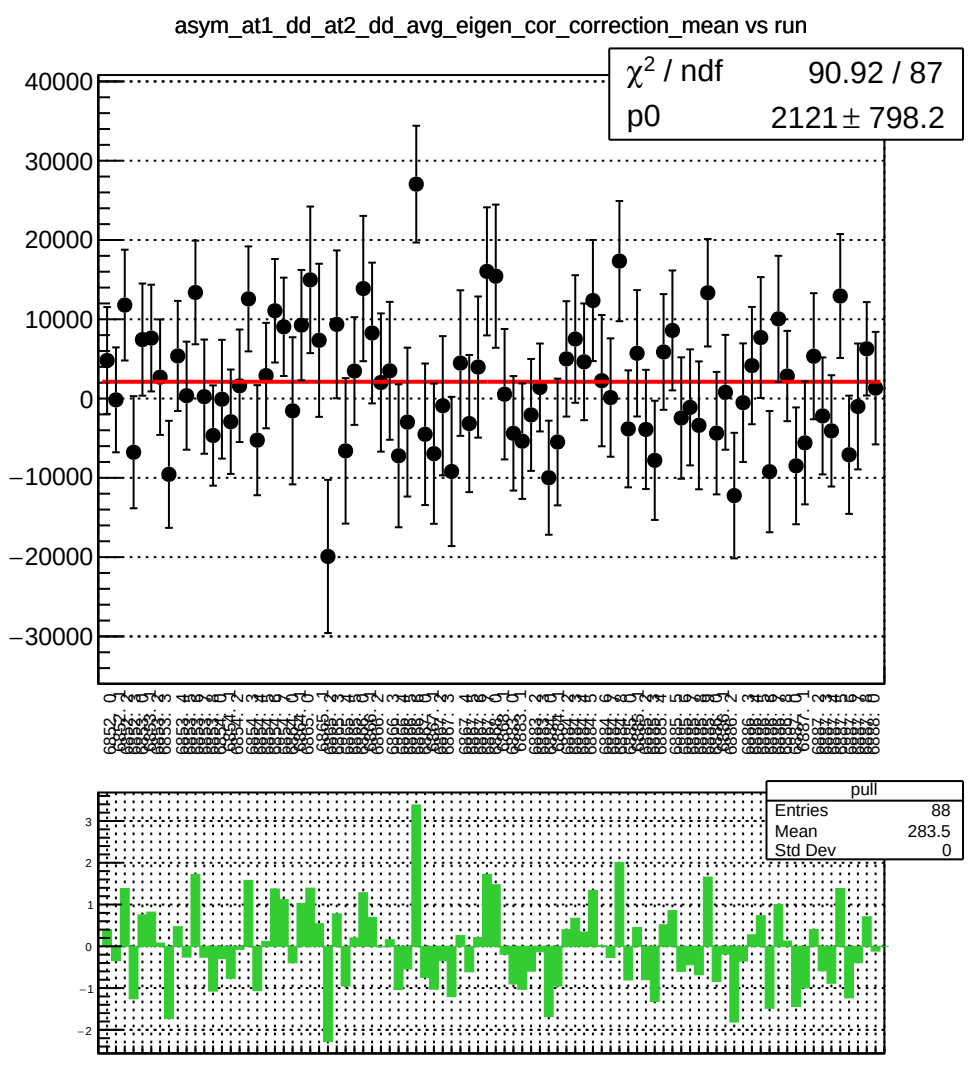

pull1D
Entries 88
Mean −0.01316
Std Dev 1.016

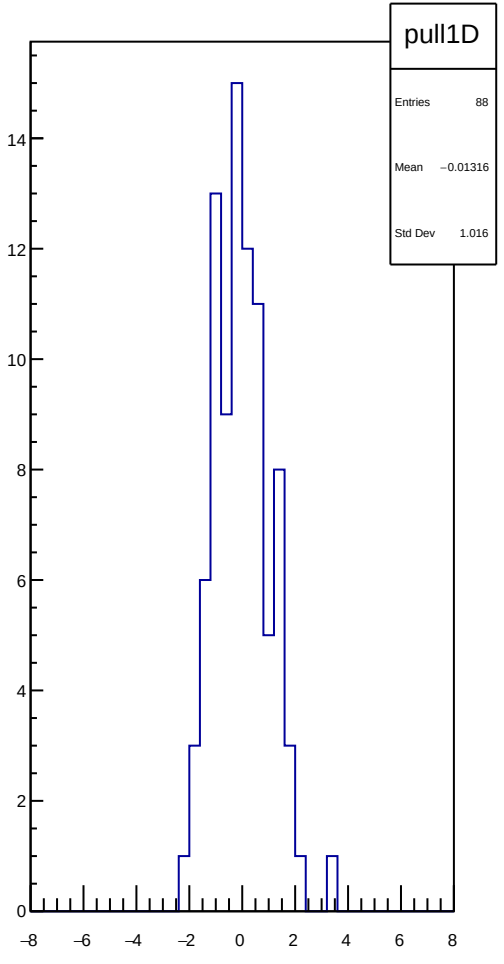

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 2.061e+04 / 87
p0 729.5 ± 0.5644
950
900
850
800
750
700
650
600

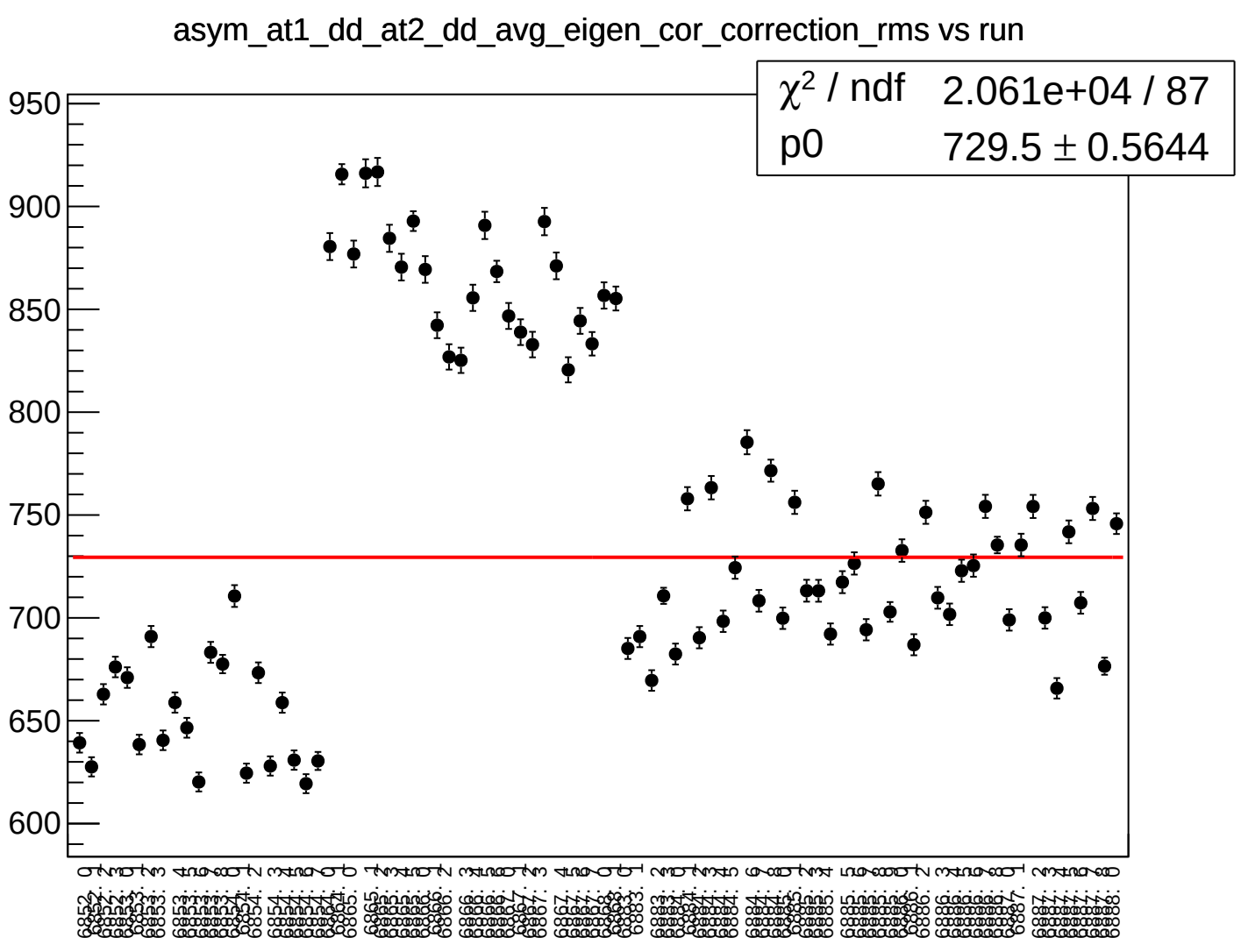

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 62.6 / 87
p0 1390 ± 1343
pull
Entries 88
Mean −561.8
Std Dev 0

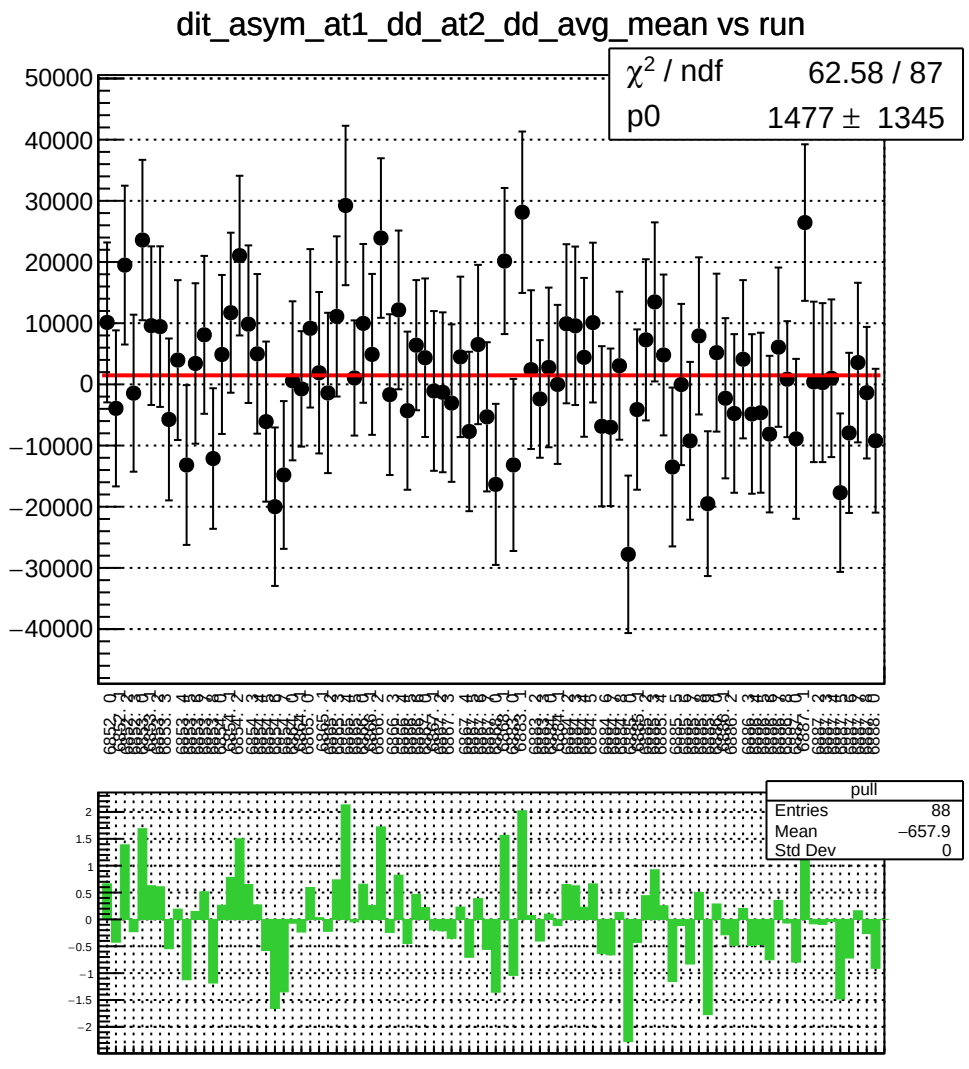

pull1D
Entries 88
Mean 0.007811
Std Dev 0.8434

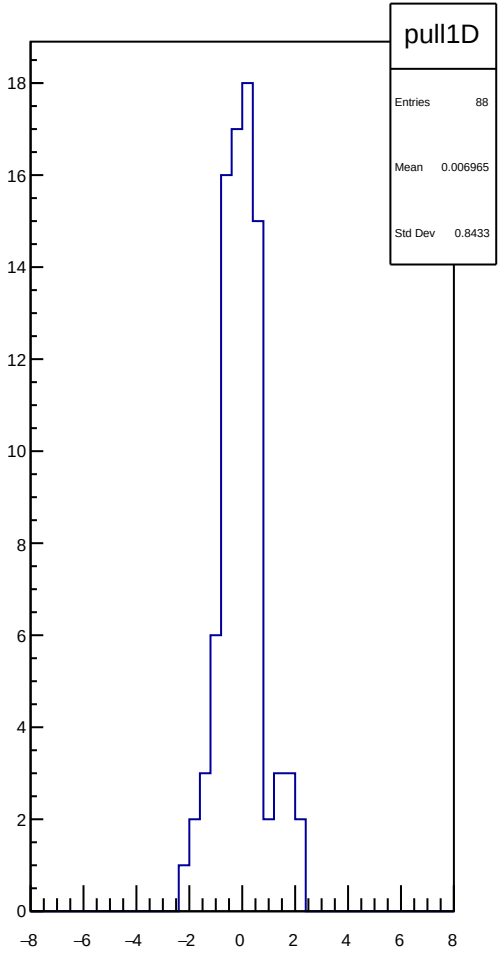

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 197.4 / 87
p0 1235 ± 0.95
1340
1320
1300
1280
1260
1240
1220
1200

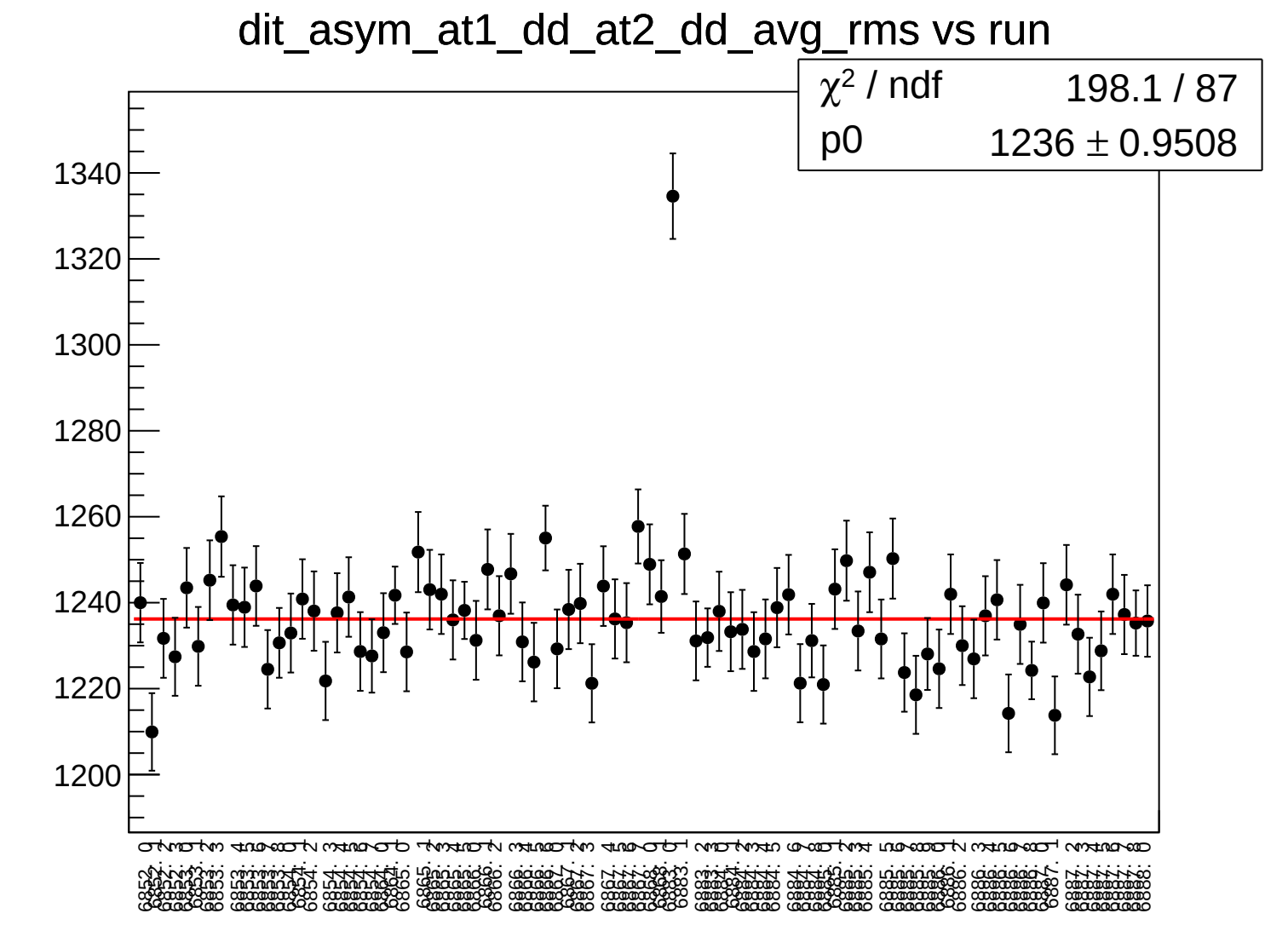

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.92 / 87
p0 2121 ± 798.2
pull
Entries 88
Mean 283.5
Std Dev 0

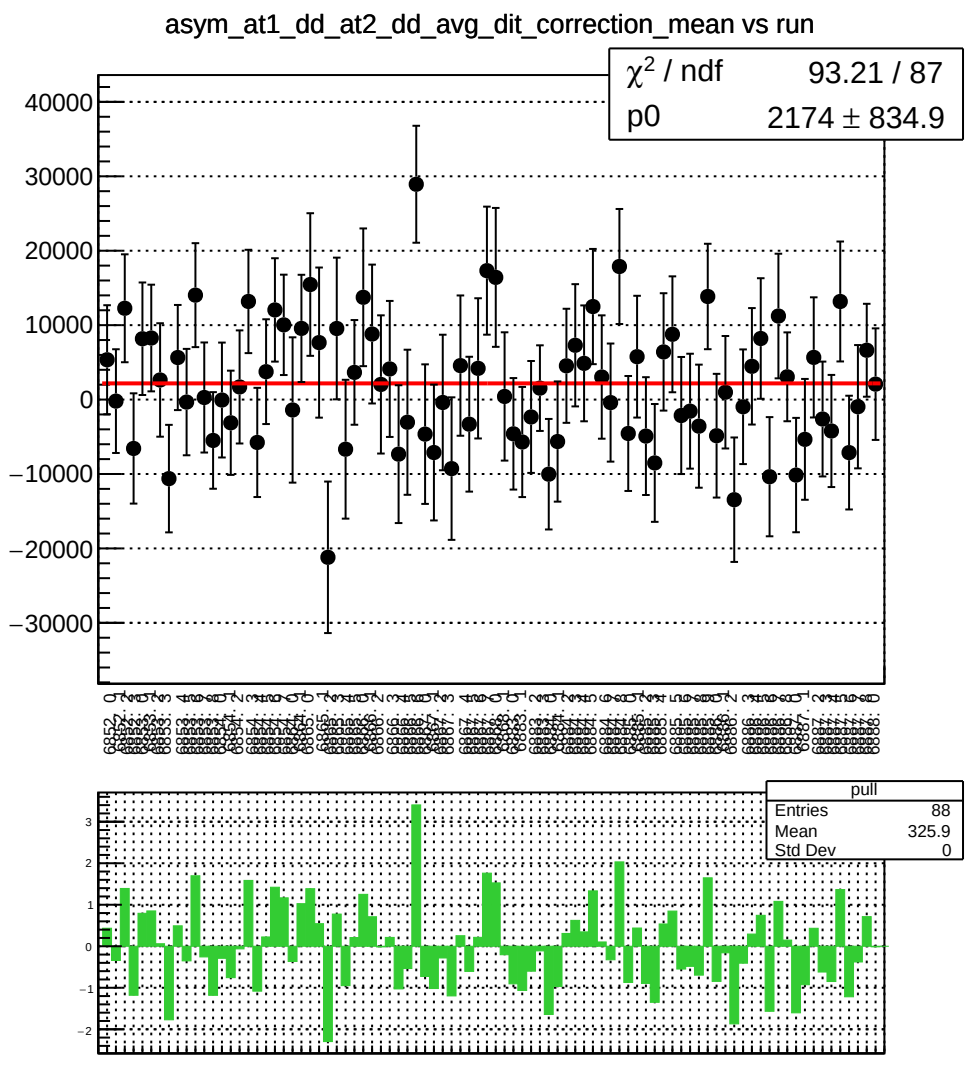

pull1D
Entries 88
Mean −0.01316
Std Dev 1.016

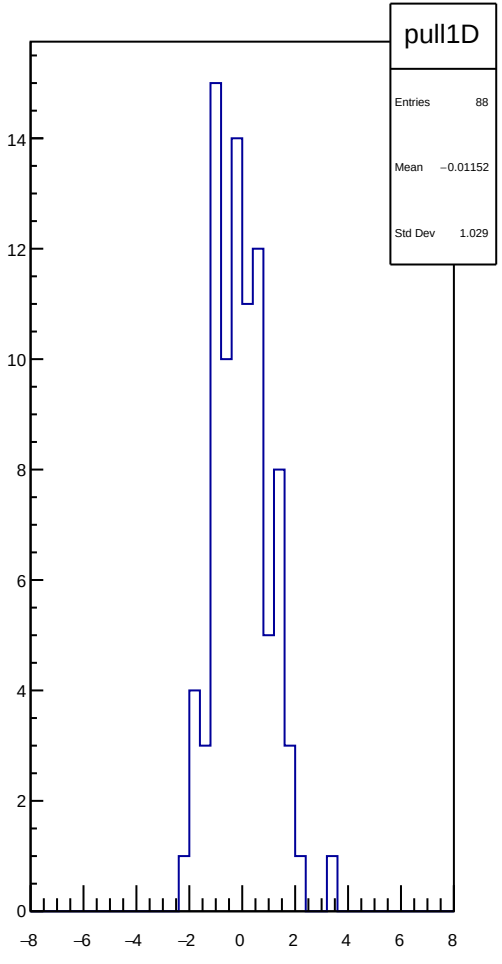

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.061e+04 / 87
p0 729.5 ± 0.5644
950
900
850
800
750
700
650
600

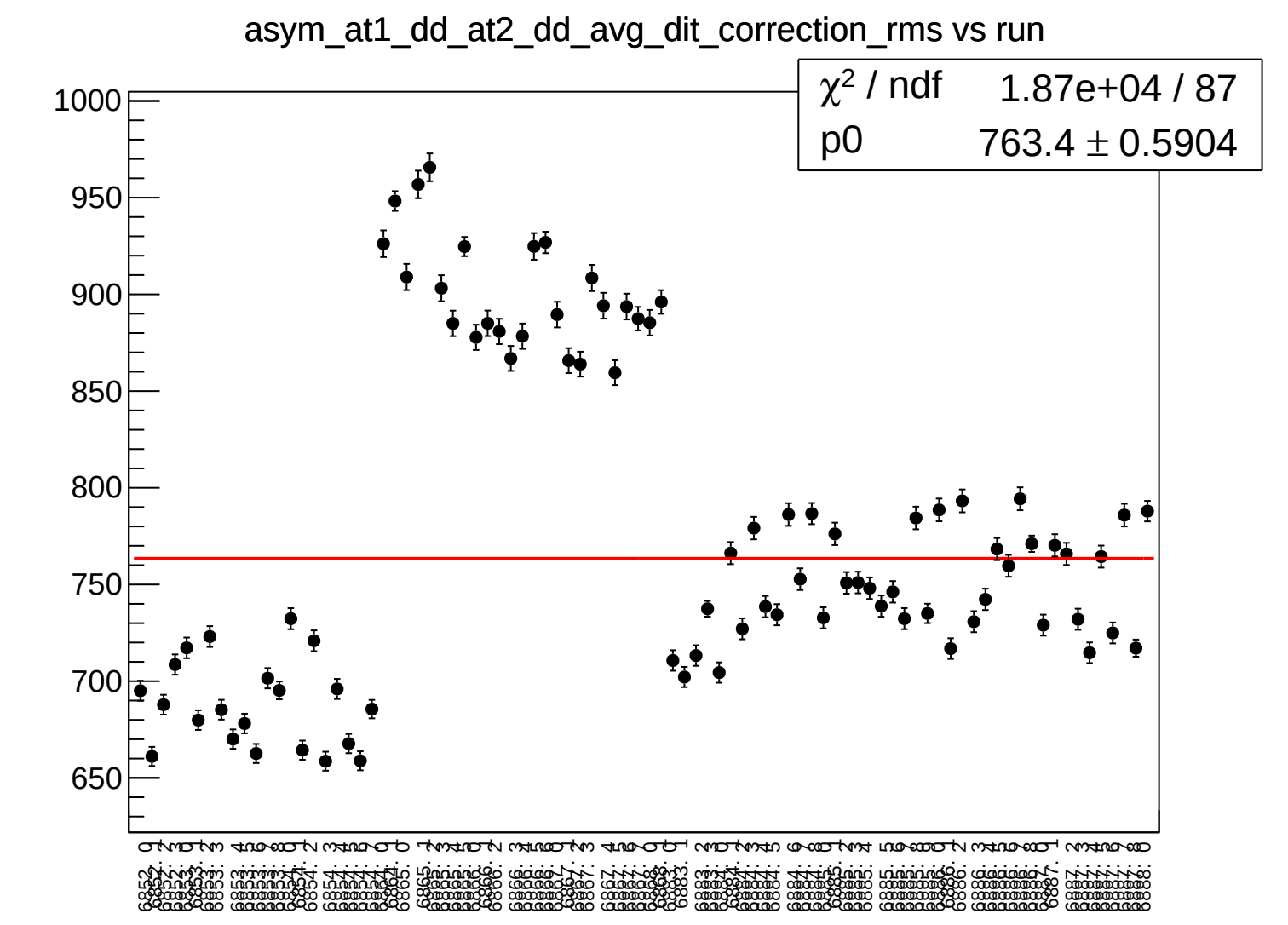

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 62.58 / 87
p0 1477 ± 1345
pull
Entries 88
Mean −657.9
Std Dev 0

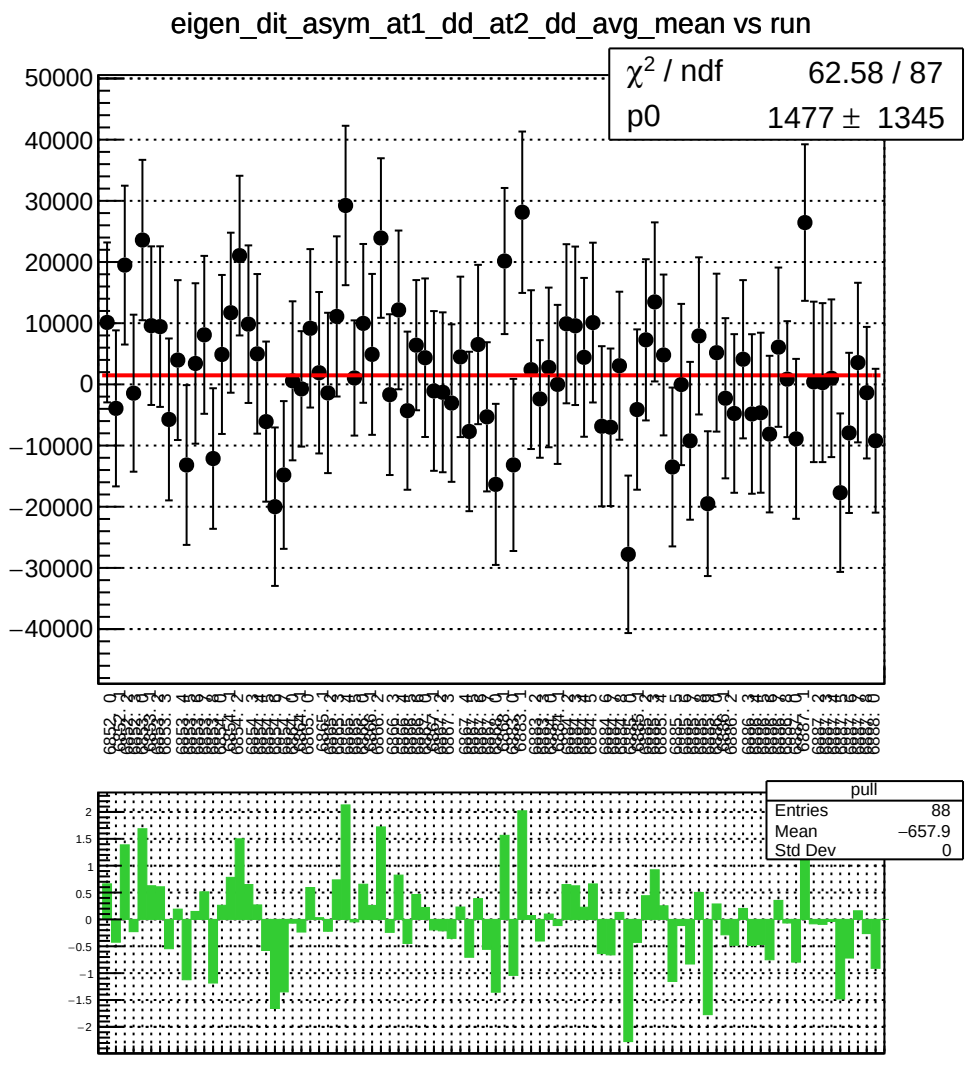

pull1D
Entries 88
Mean 0.006965
Std Dev 0.8433

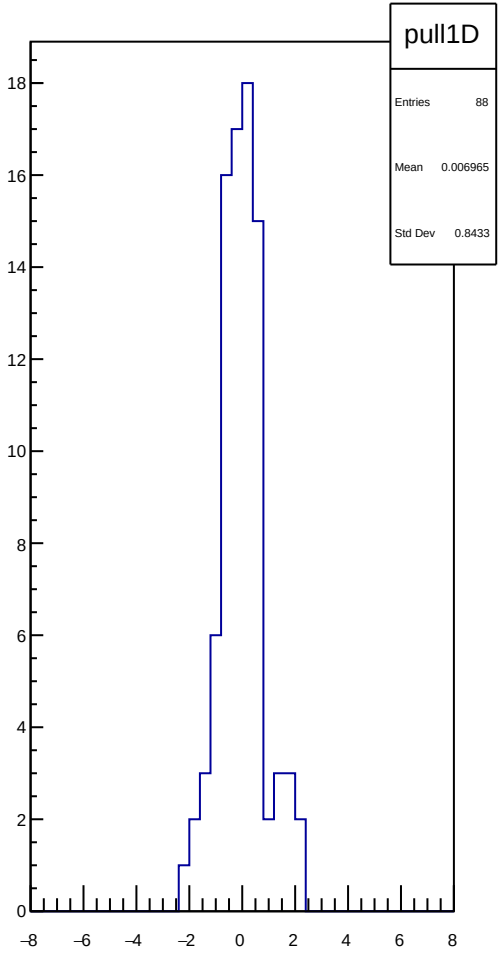

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 198.1 / 87
p0 1236 ± 0.9508
1340
1320
1300
1280
1260
1240
1220
1200

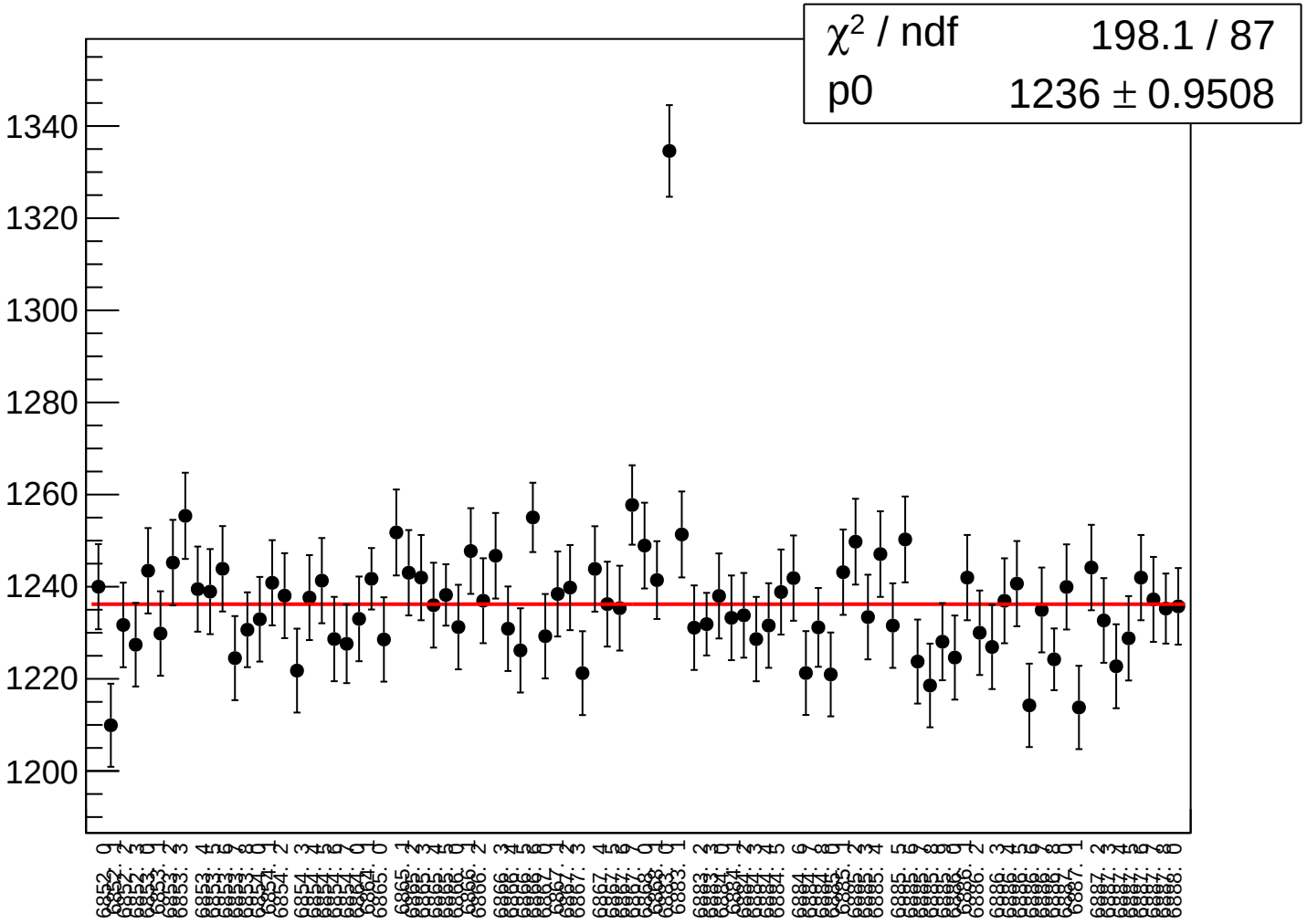

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 93.21 / 87
p0 2174 ± 834.9
pull
Entries 88
Mean 325.9
Std Dev 0

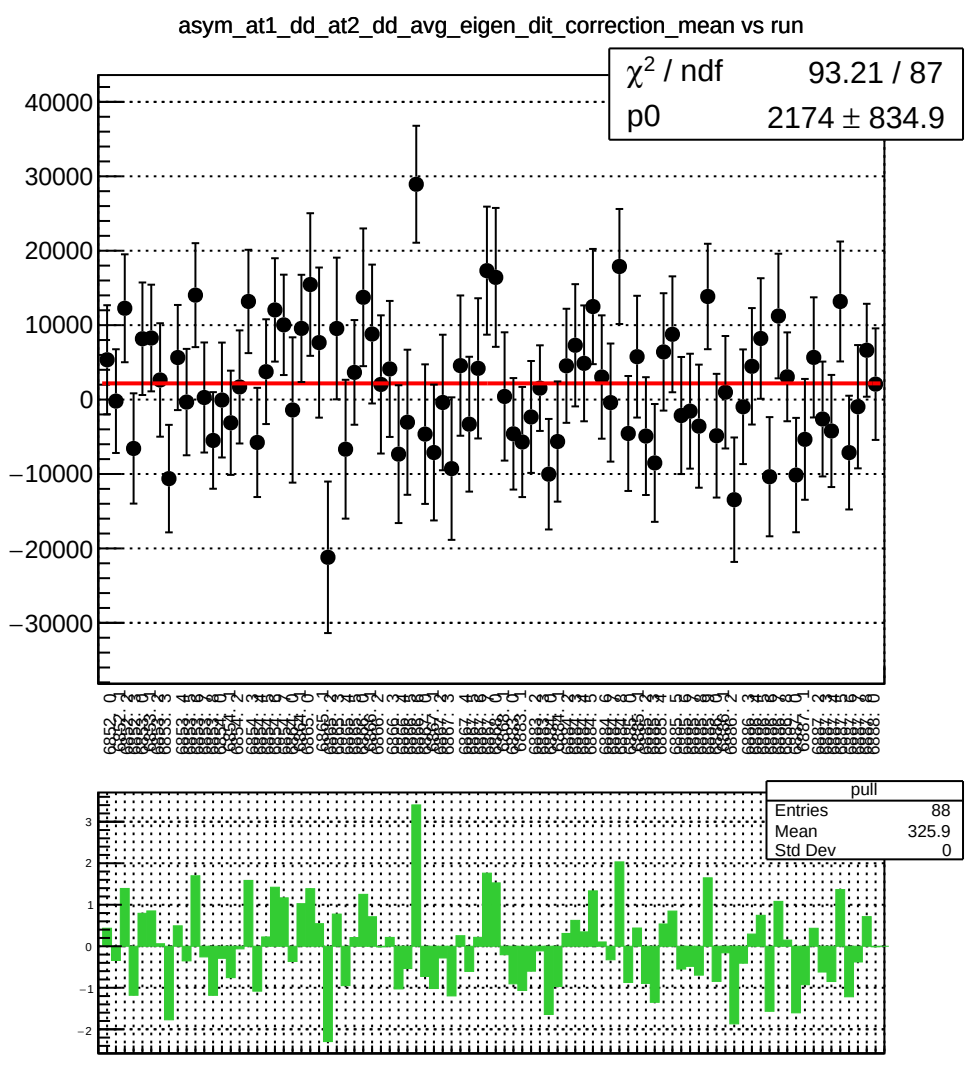

pull1D
Entries 88
Mean −0.01152
Std Dev 1.029

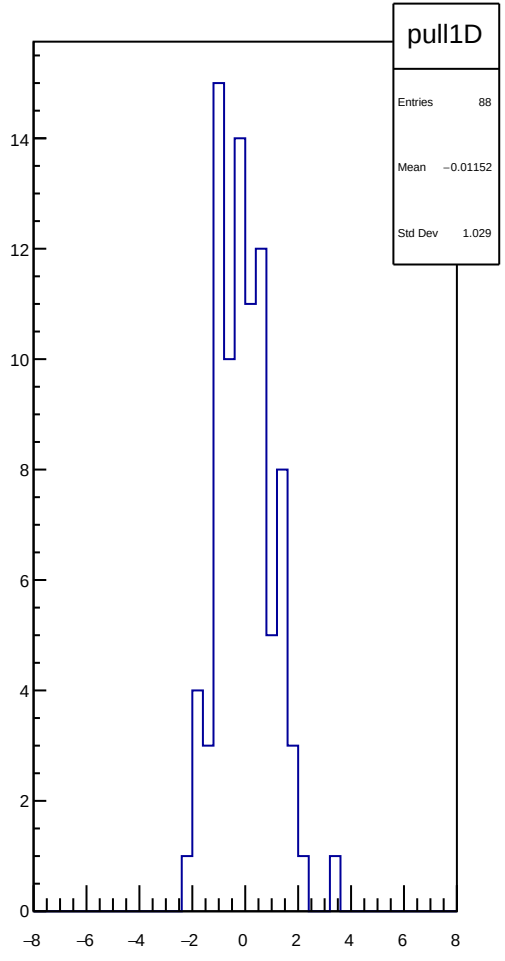

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.87e+04 / 87
p0 763.4 ± 0.5904
1000
950
900
850
800
750
700
650

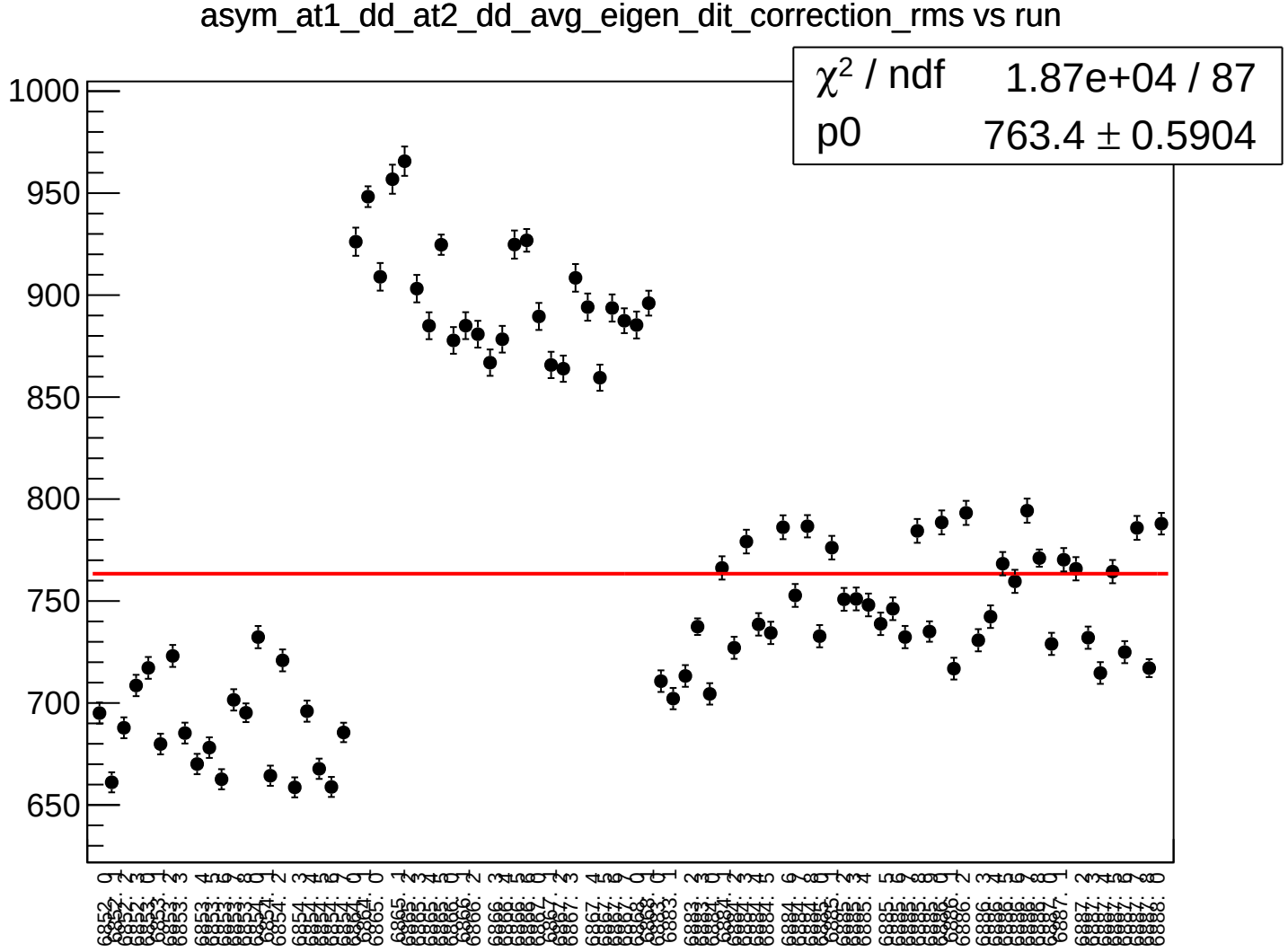

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 62.58 / 87
p0 1477 ± 1345
pull
Entries 88
Mean −657.9
Std Dev 0

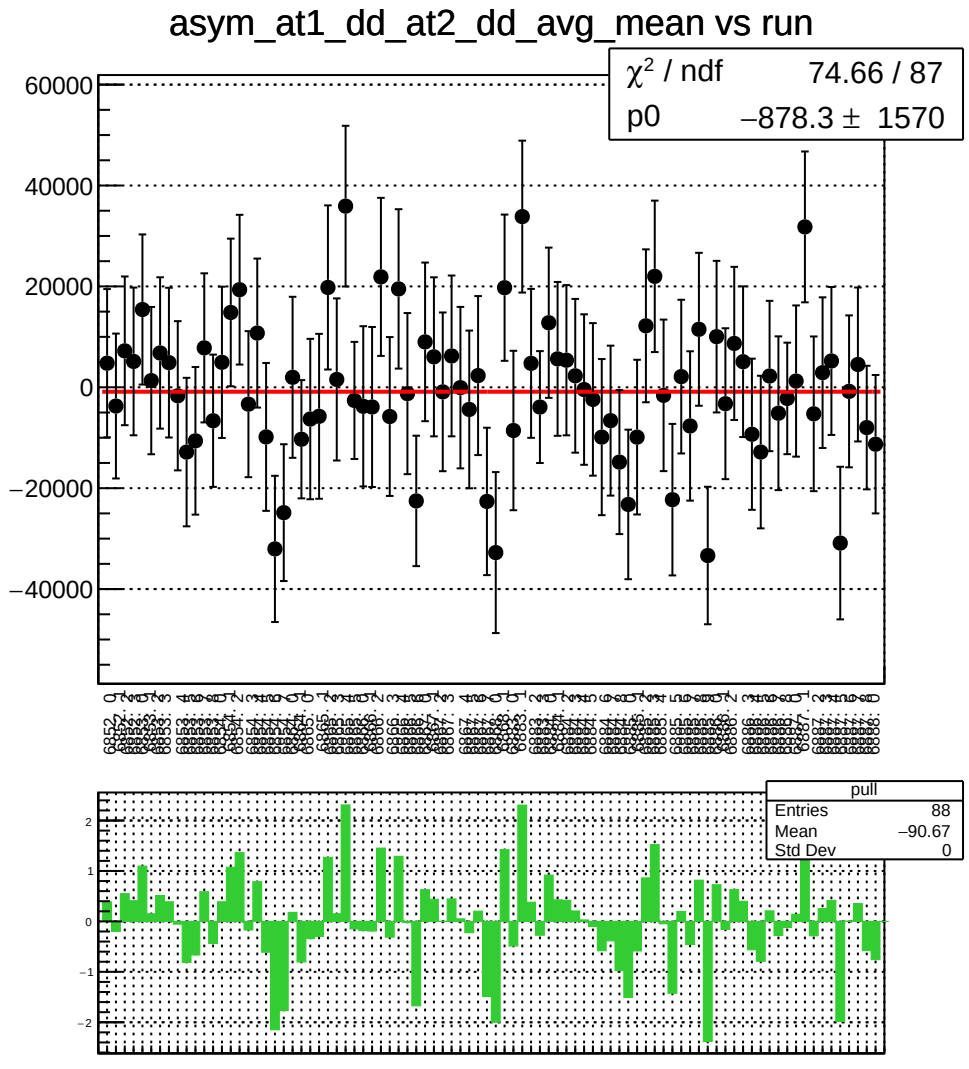

pull1D
Entries 88
Mean 0.006965
Std Dev 0.8433

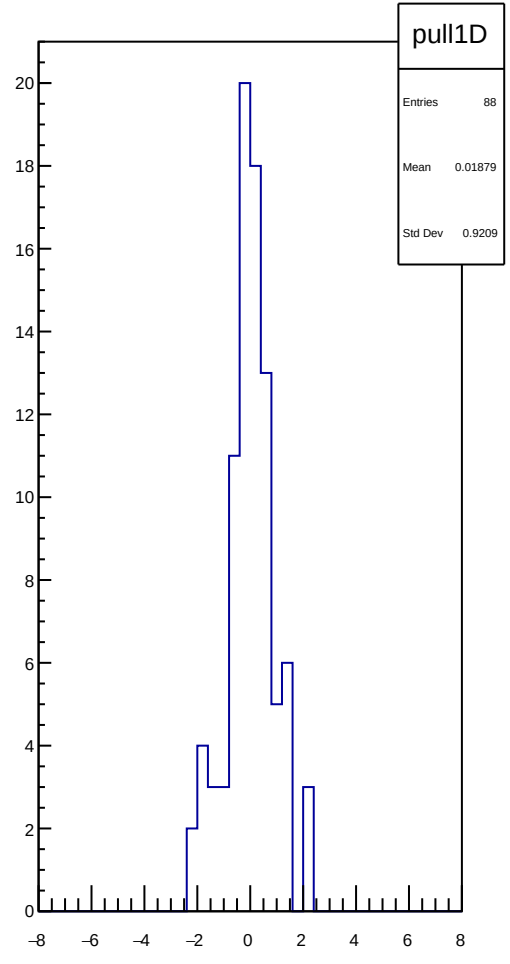

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 198.1 / 87
p0 1236 ± 0.9508
1340
1320
1300
1280
1260
1240
1220
1200

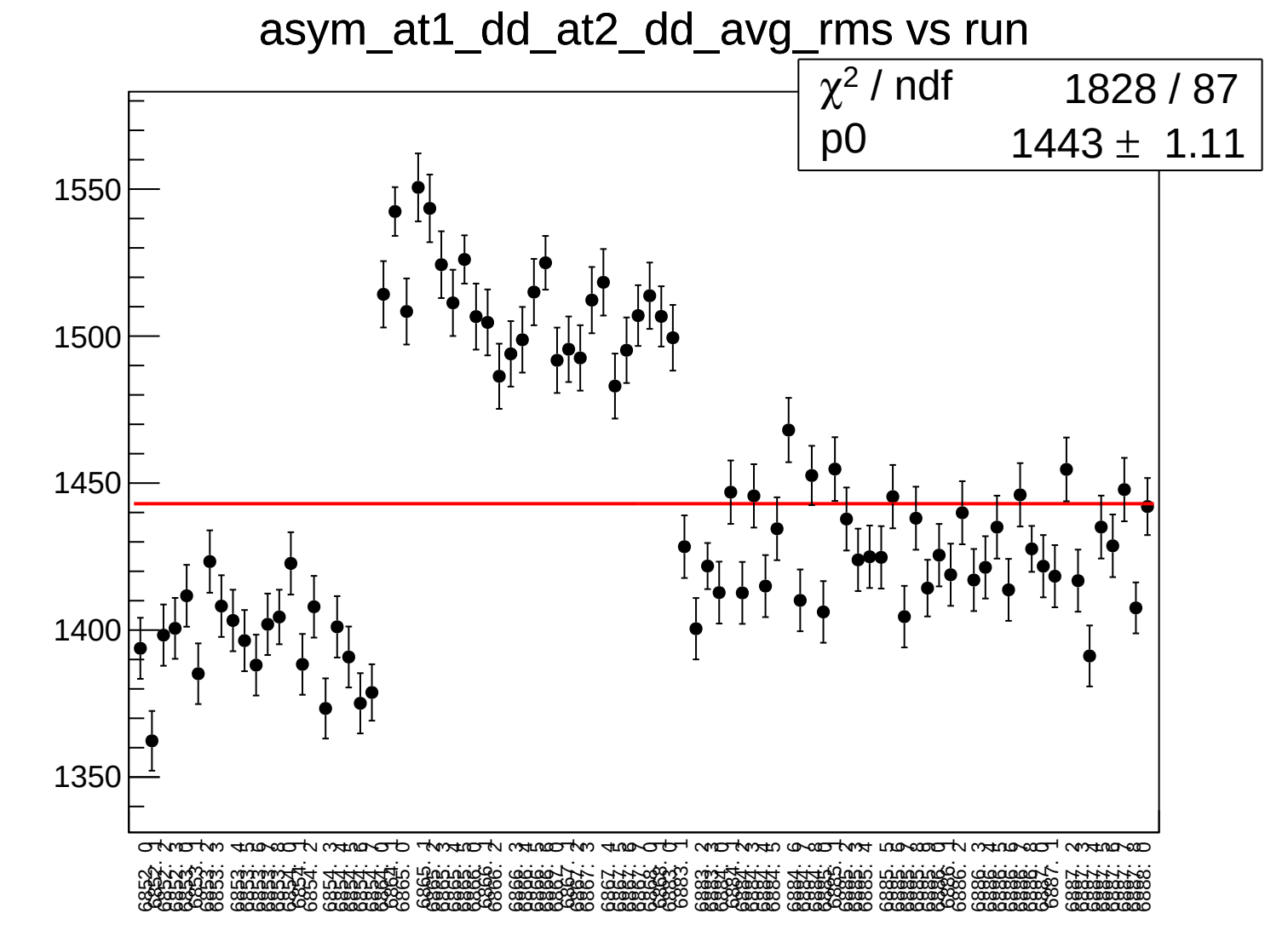

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 93.21 / 87
p0 2174 ± 834.9
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 325.9
Std Dev 0
3
2
1
0
−1
−2

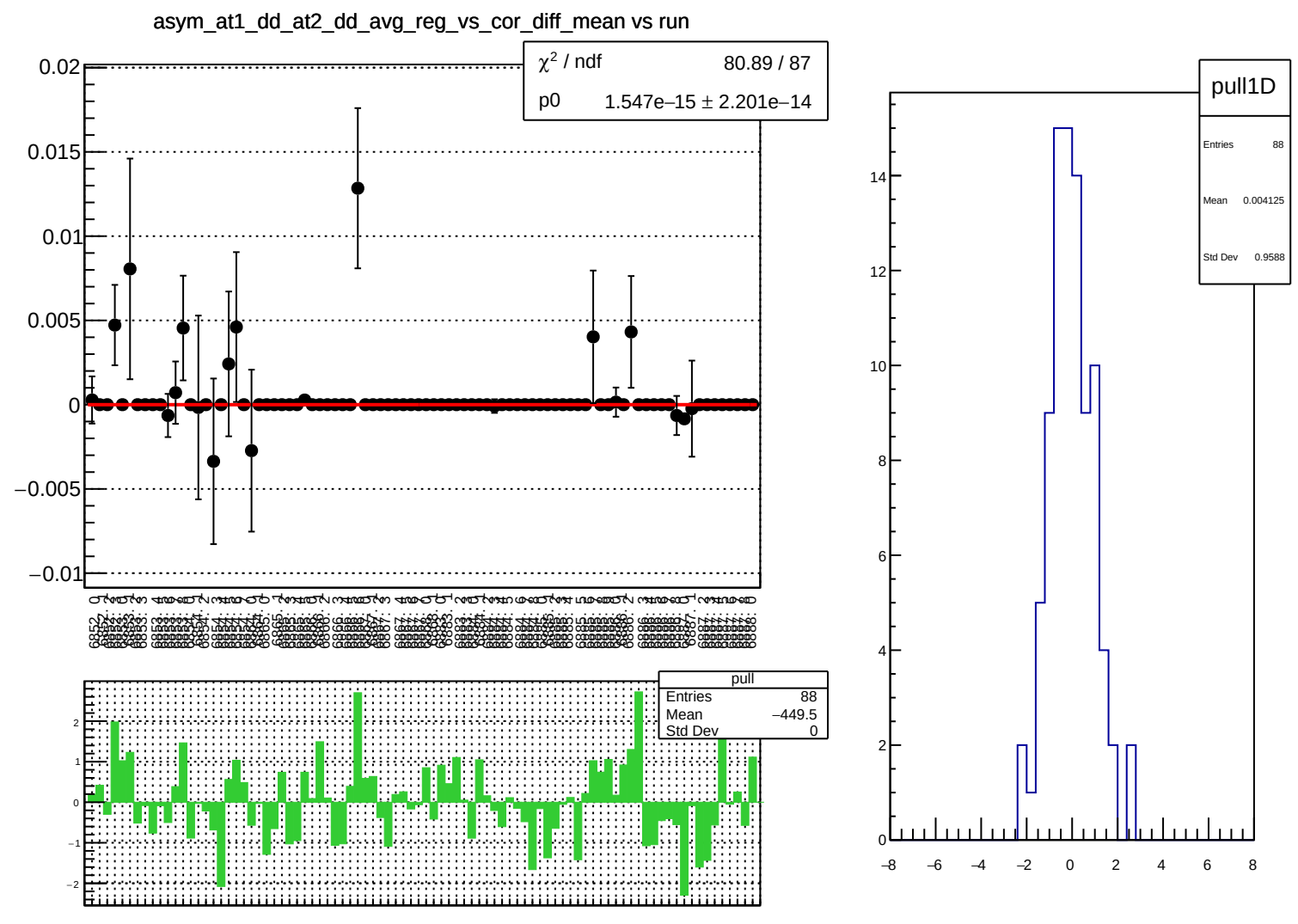

pull1D
Entries 88
Mean −0.01152
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

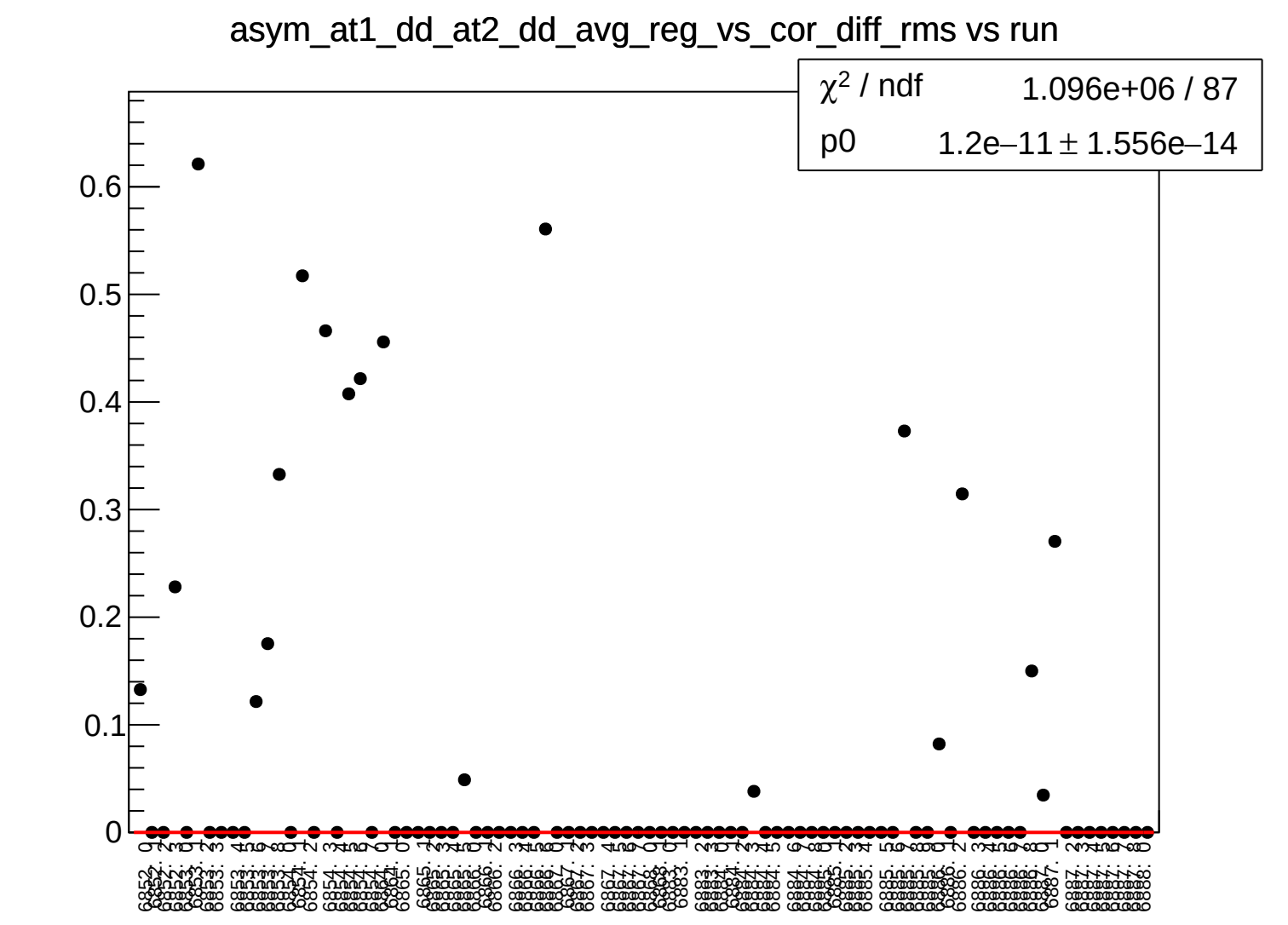

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.87e+04 / 87
p0 763.4 ± 0.5904
1000
950
900
850
800
750
700
650

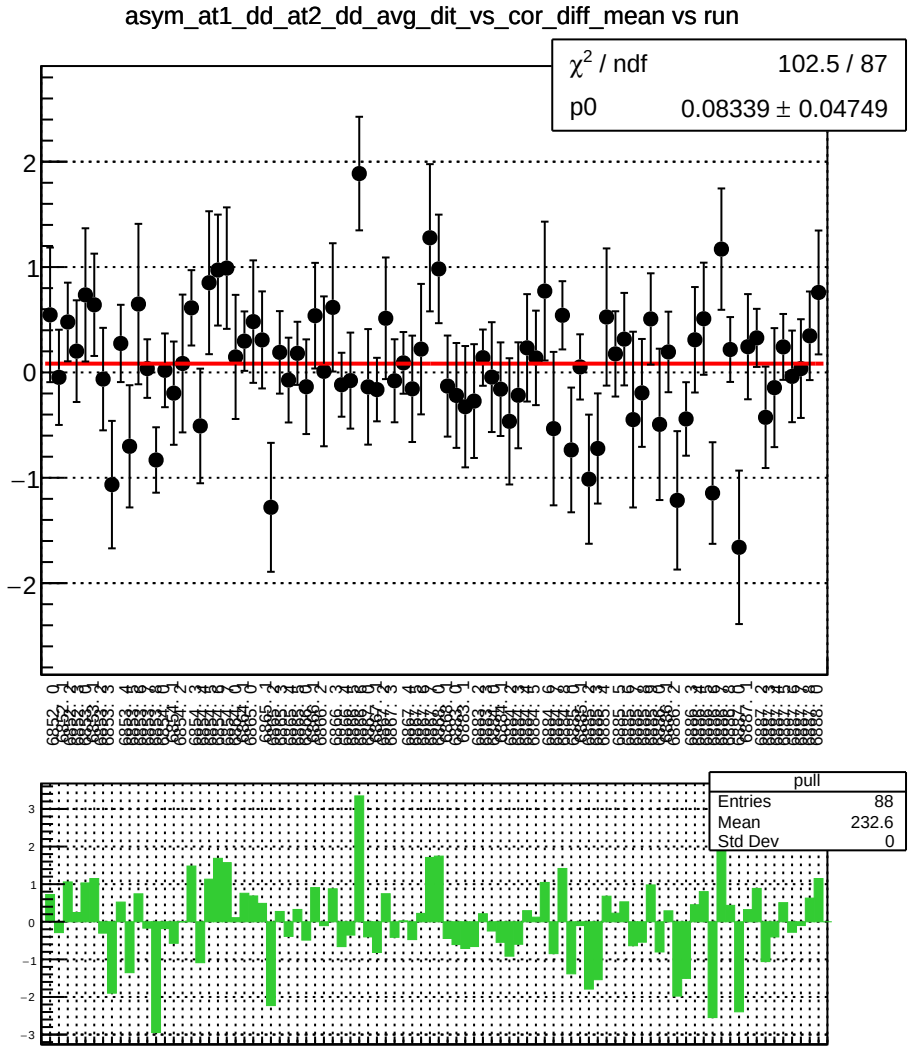

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 74.66 / 87
p0 −878.3 ± 1570
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −90.67
Std Dev 0
2
1
0
−1
−2

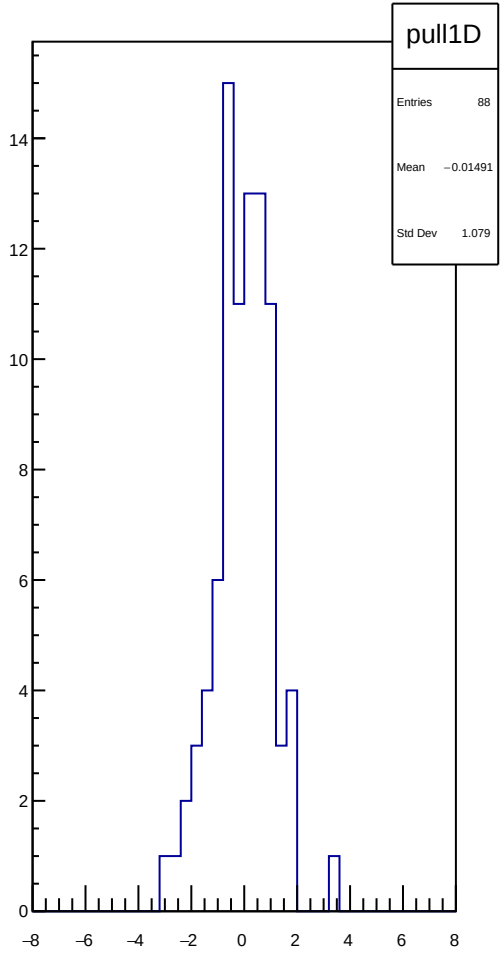

pull1D
Entries 88
Mean 0.01879
Std Dev 0.9209
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

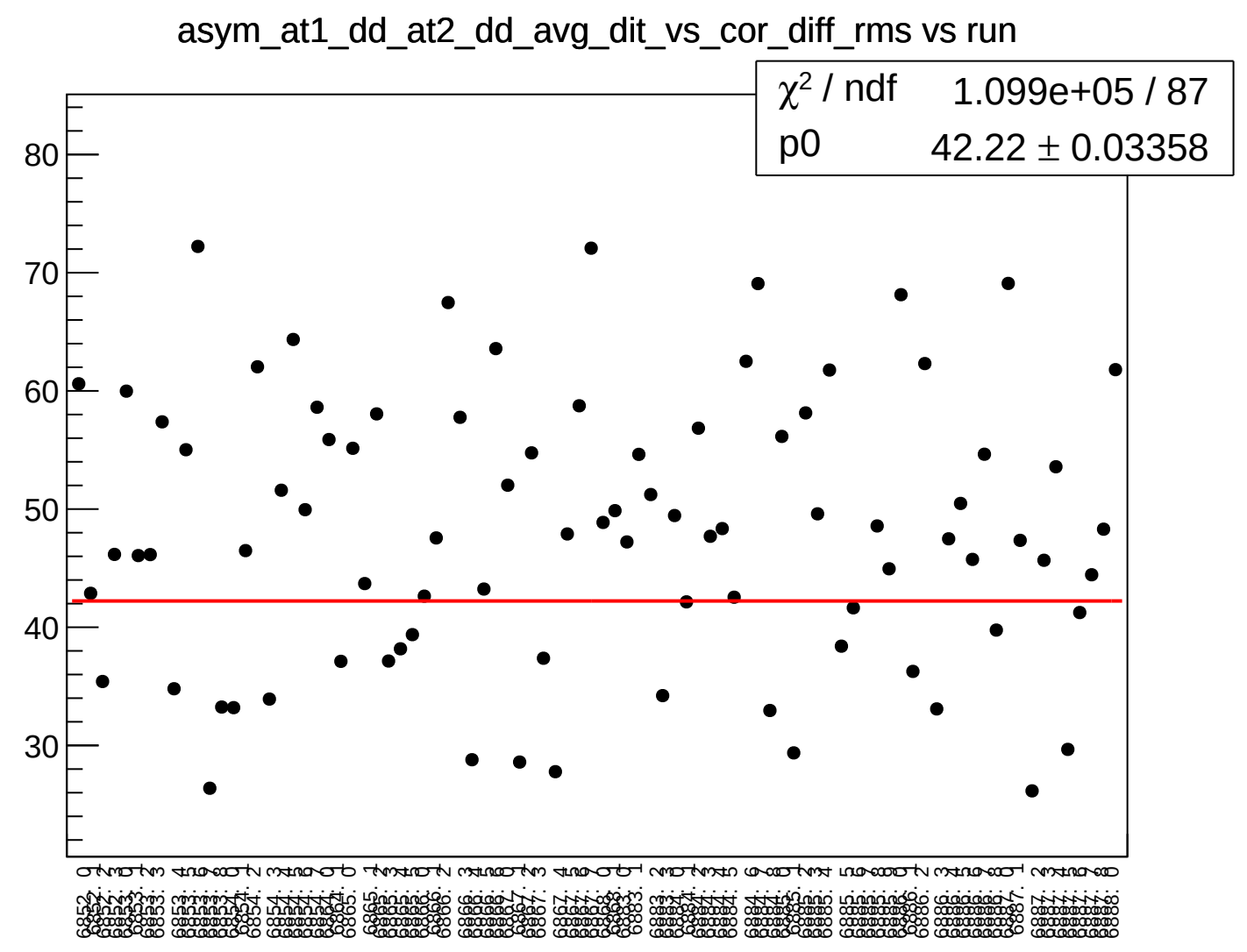

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1828 / 87
p0 1443 ± 1.11
1550
1500
1450
1400
1350

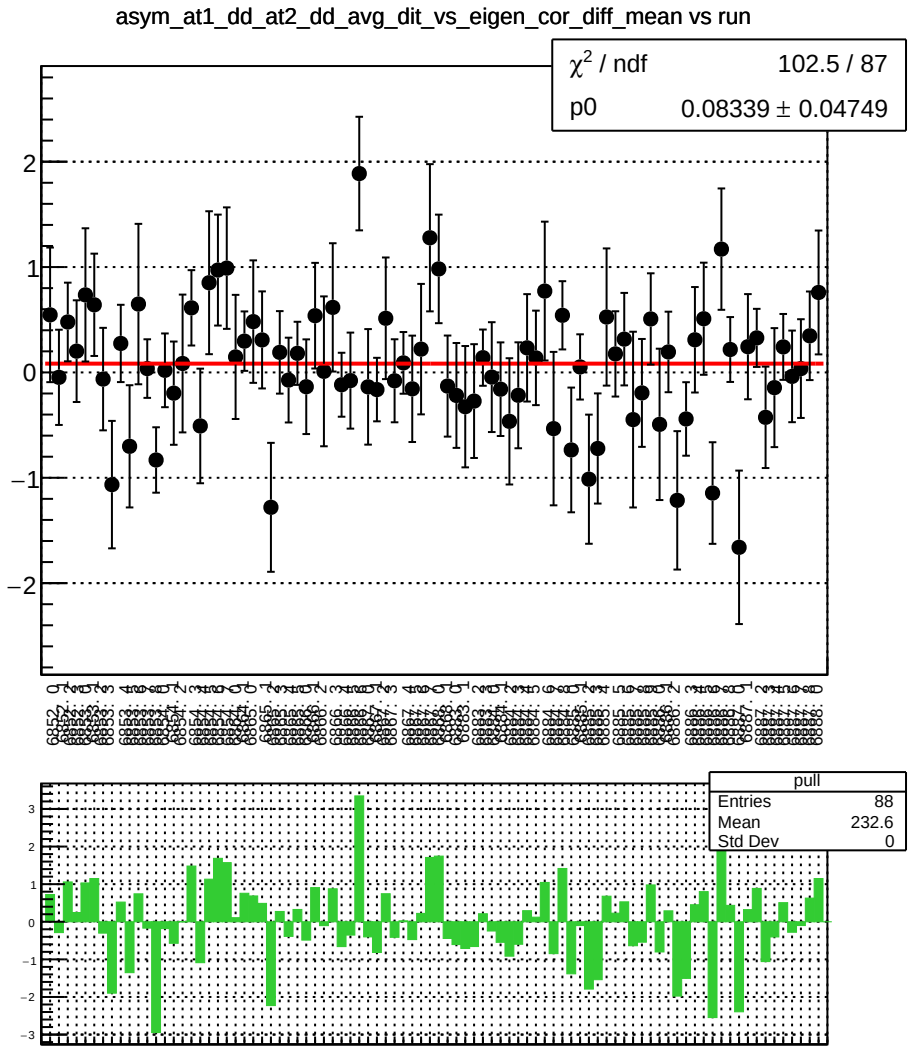

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.89 / 87
p0 1.547e−15 ± 2.201e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean −449.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.004125
Std Dev 0.9588
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

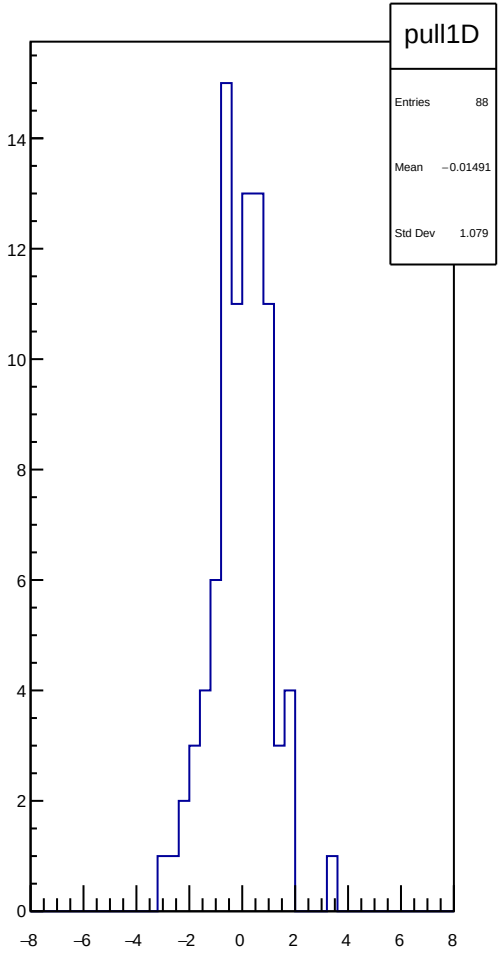

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.096e+06 / 87
p0 1.2e−11 ± 1.556e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

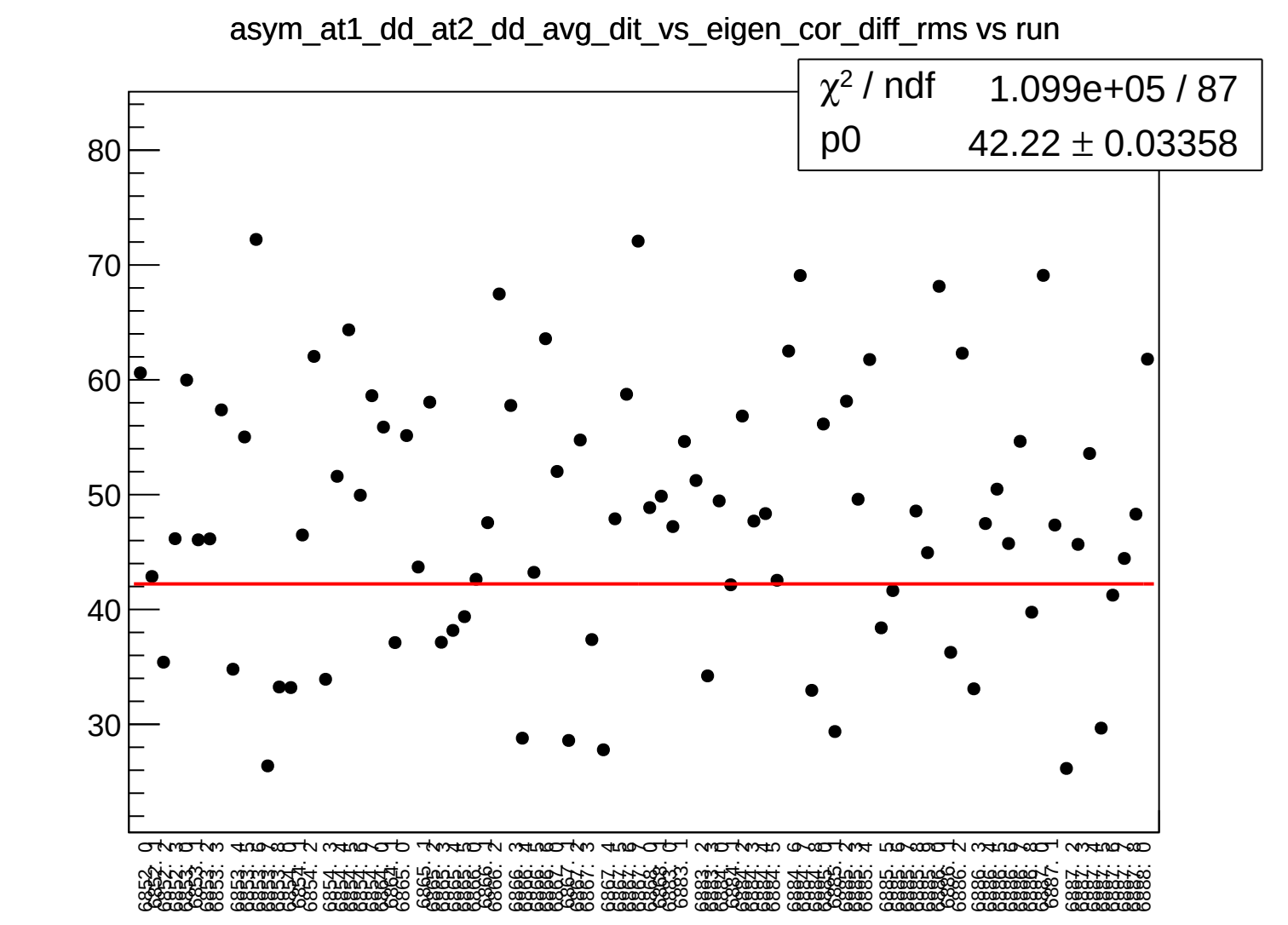

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 87
p0 0.08339 ± 0.04749
pull
Entries 88
Mean 232.6
Std Dev 0

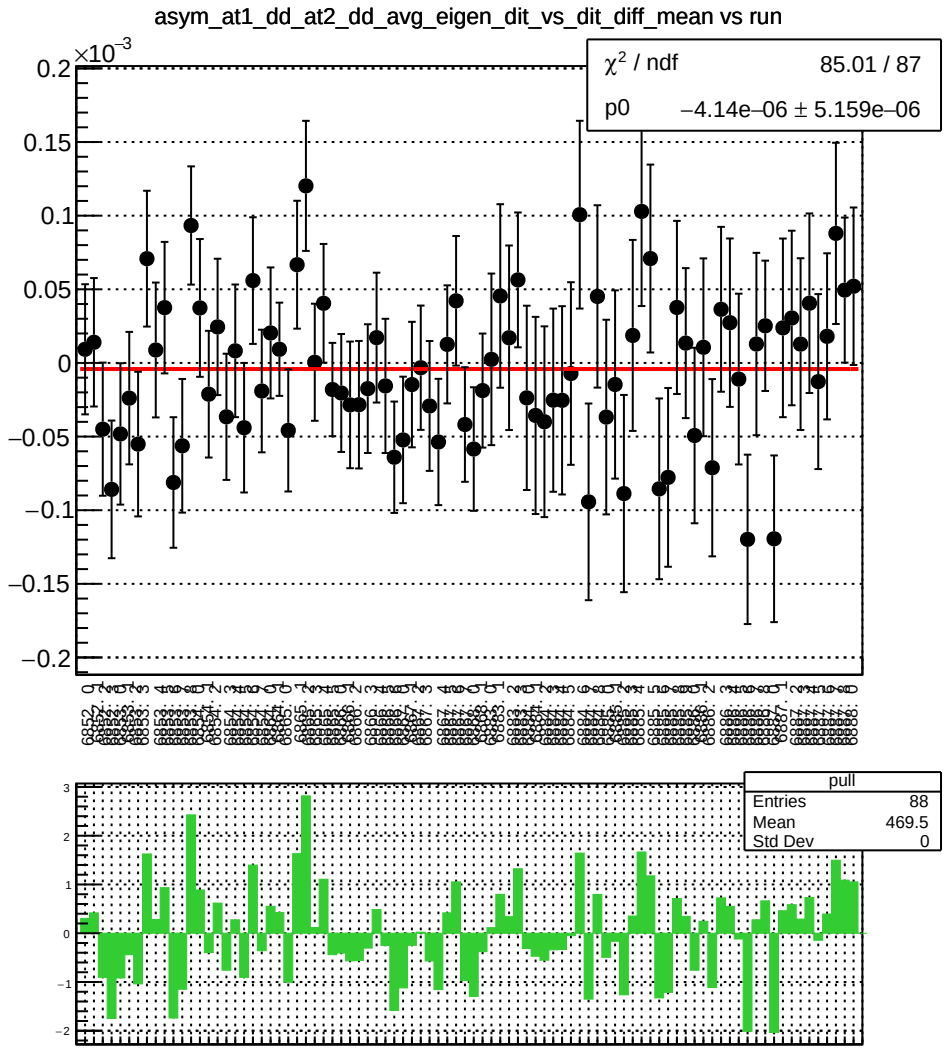

pull1D
Entries 88
Mean −0.01491
Std Dev 1.079

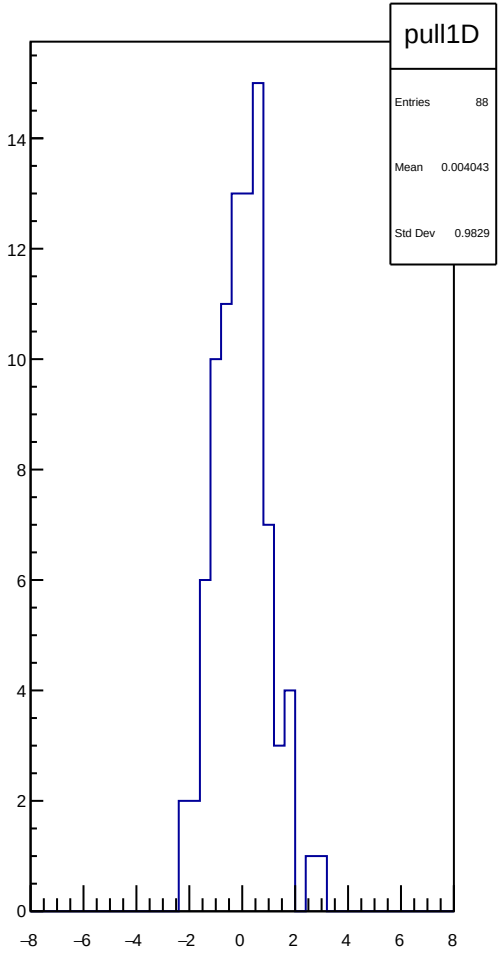

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.099e+05 / 87
p0 42.22 ± 0.03358
80
70
60
50
40
30

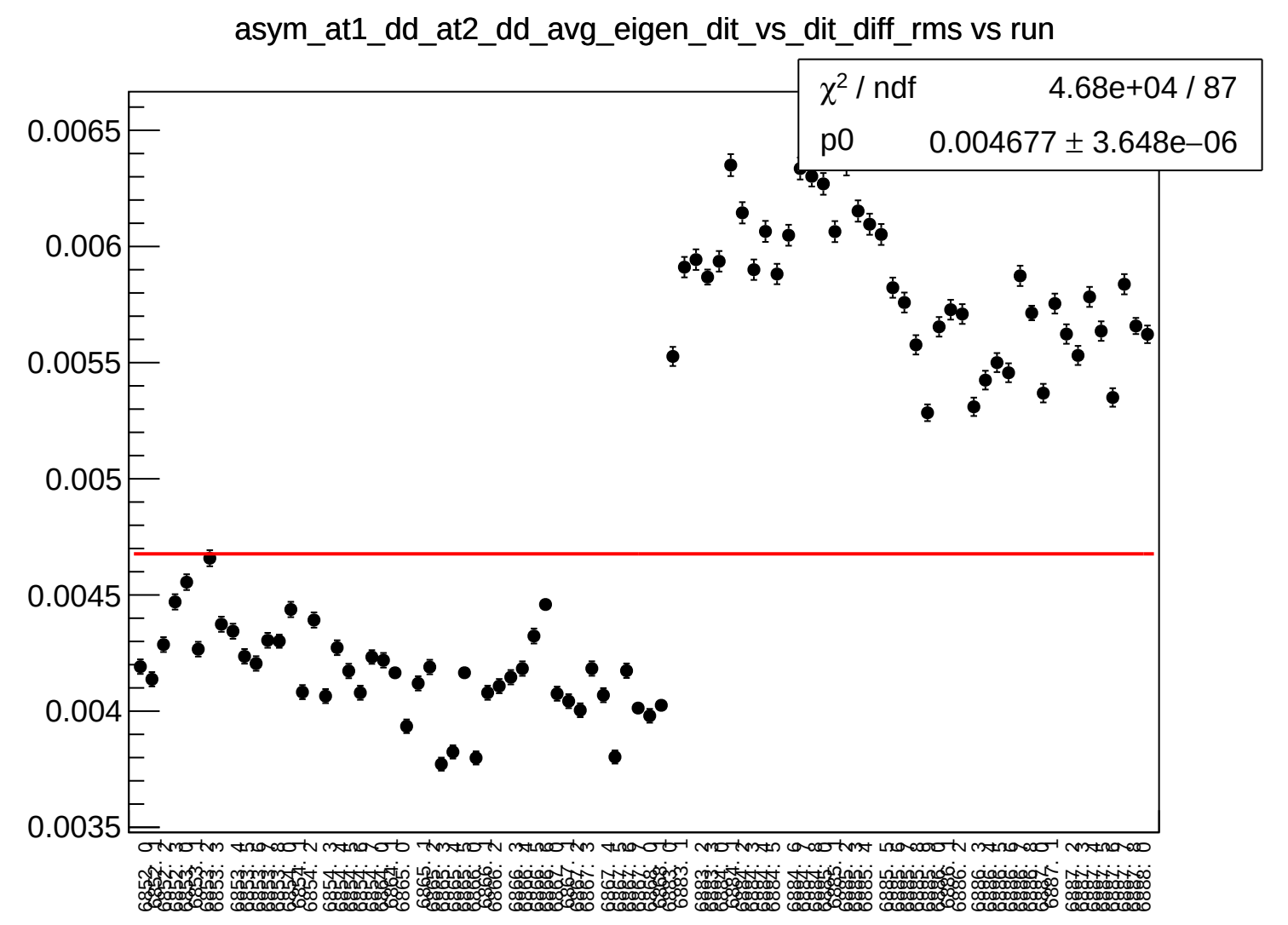

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.5 / 87
p0 0.08339 ± 0.04749
pull
Entries 88
Mean 232.6
Std Dev 0

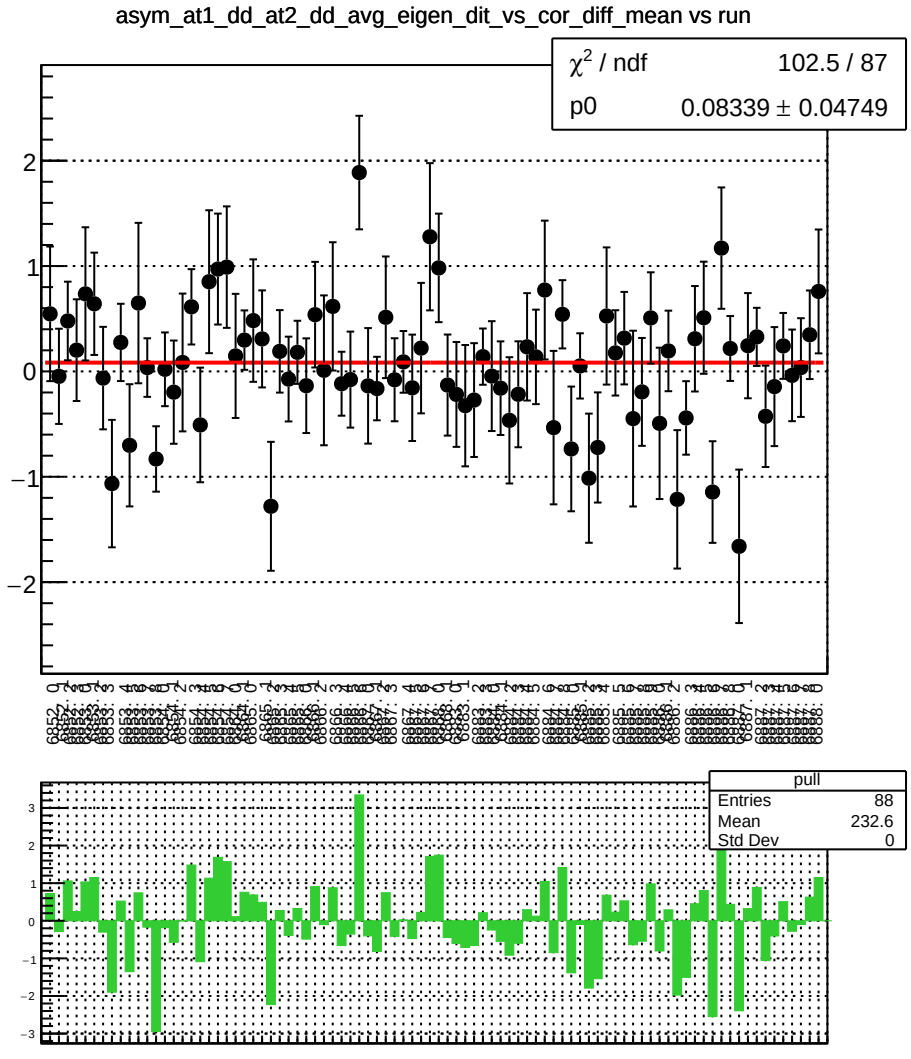

pull1D
Entries 88
Mean −0.01491
Std Dev 1.079

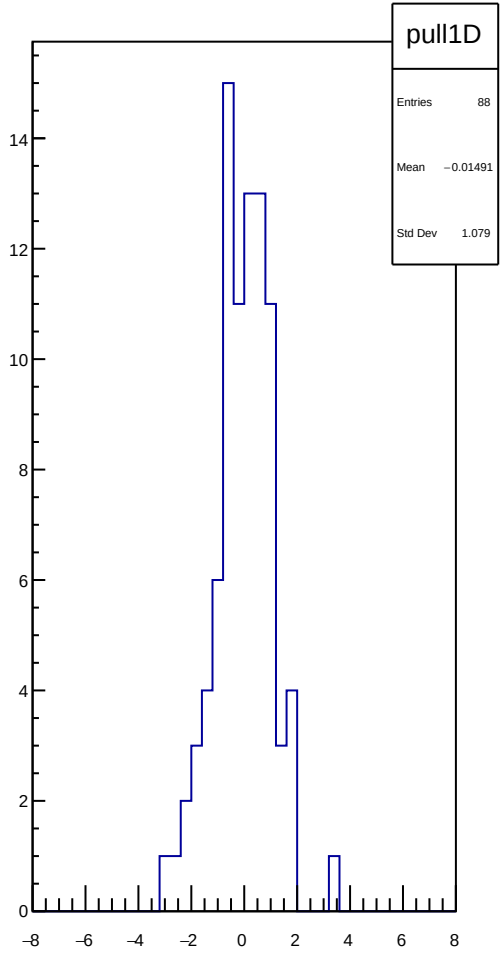

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.099e+05 / 87
p0 42.22 ± 0.03358
80
70
60
50
40
30

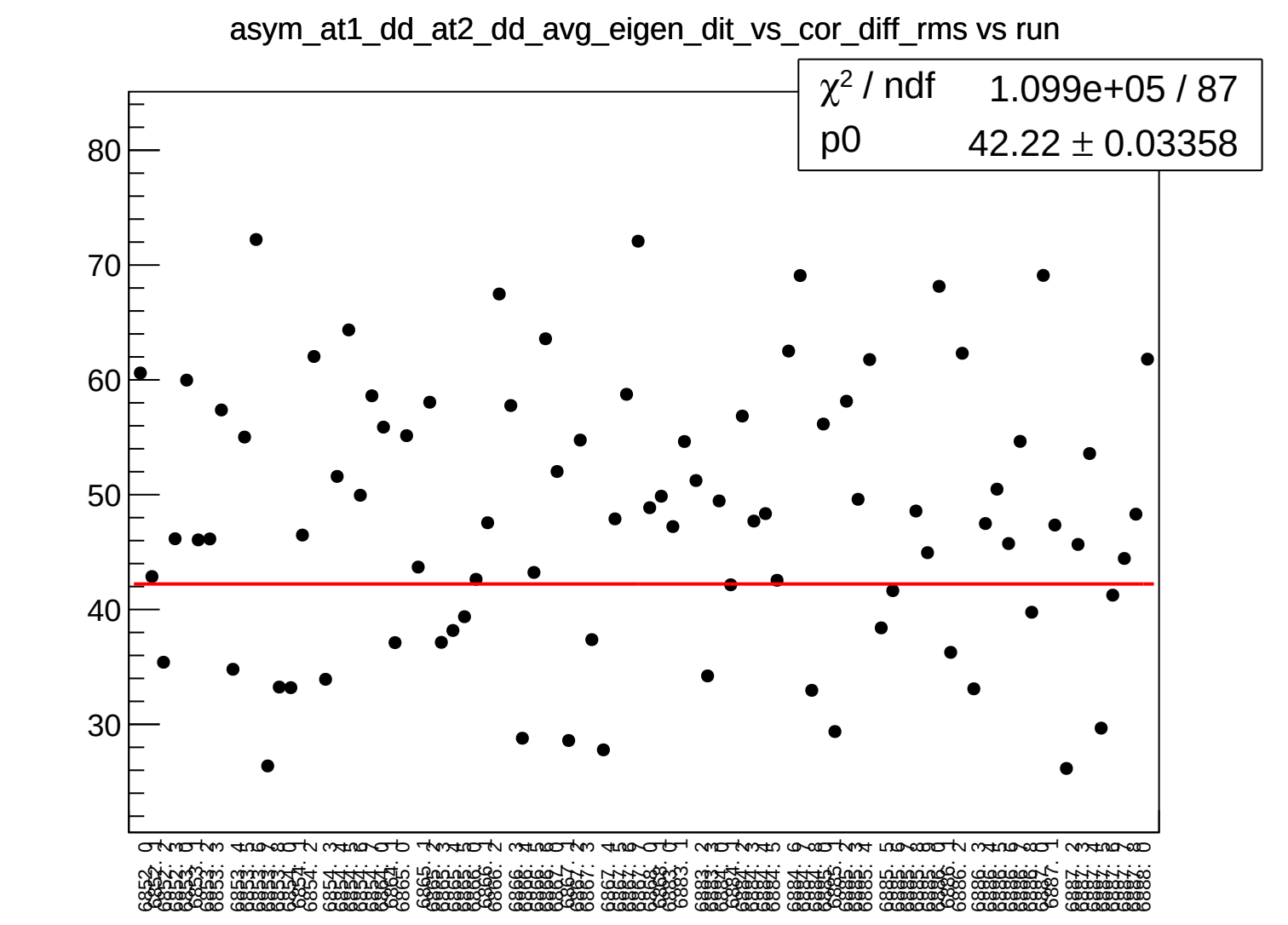

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.01 / 87
p0 −4.14e−06 ± 5.159e−06
pull
Entries 88
Mean 469.5
Std Dev 0

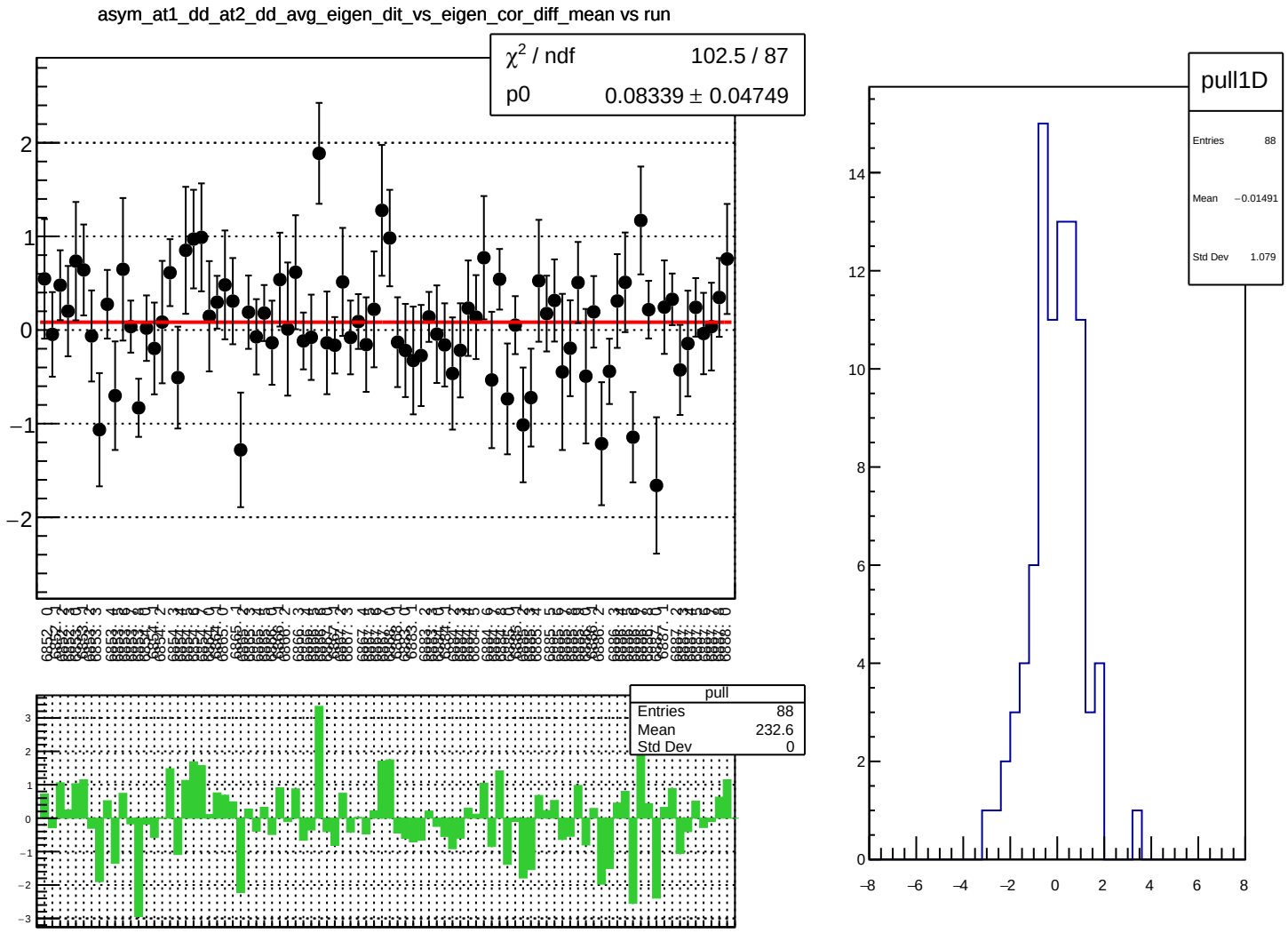

pull1D
Entries 88
Mean 0.004043
Std Dev 0.9829

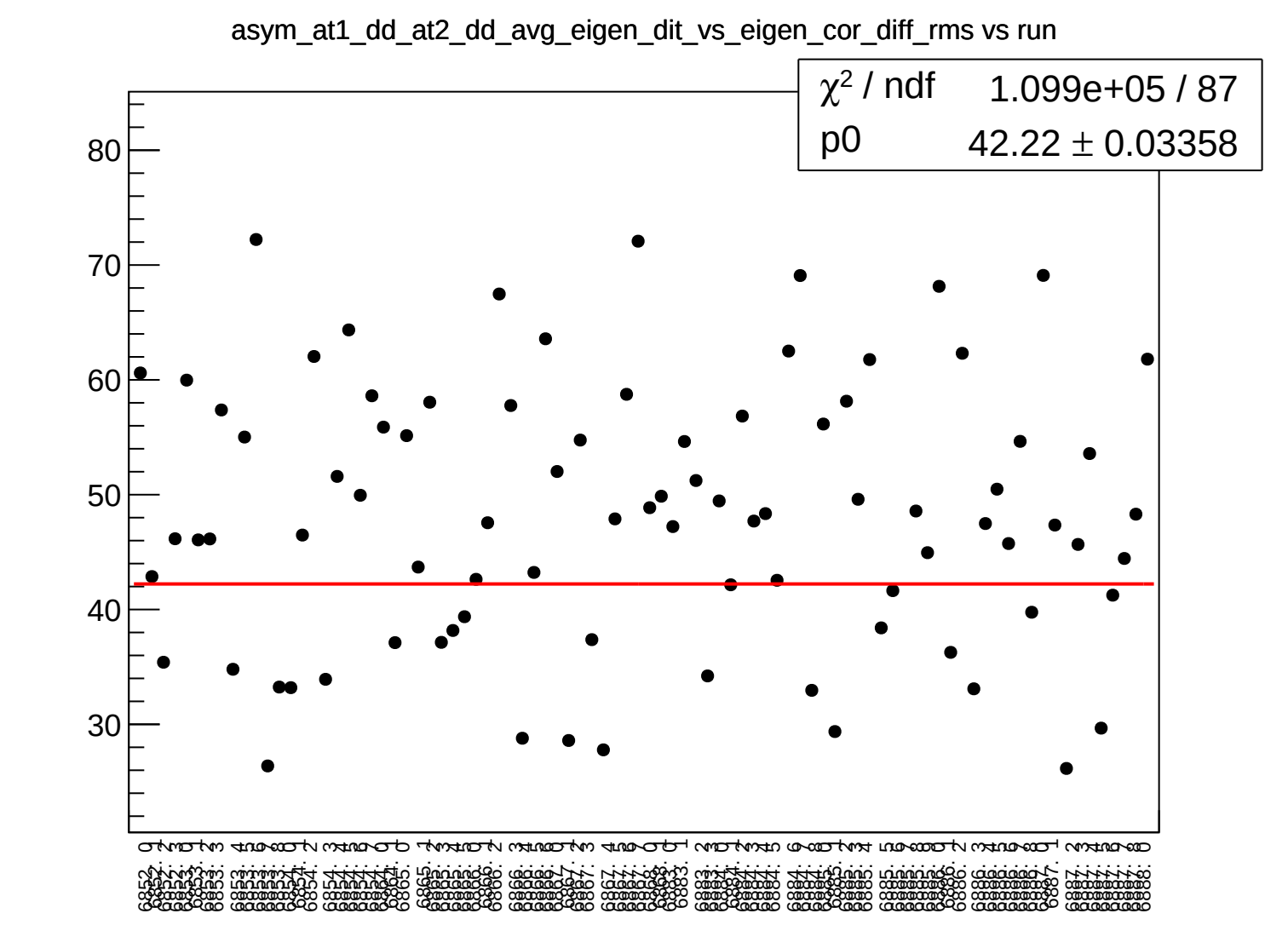

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.68e+04 / 87
p0 0.004677 ± 3.648e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

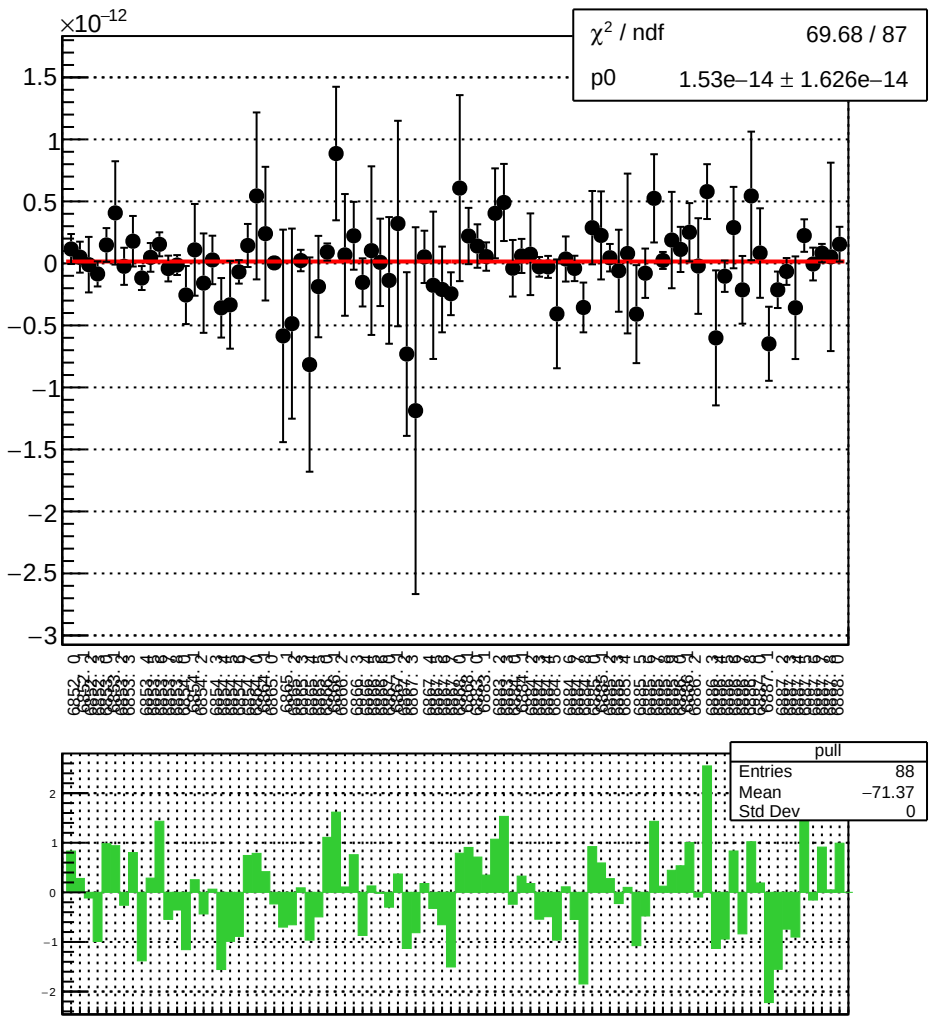

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 87
p0 0.08339 ± 0.04749
pull
Entries 88
Mean 232.6
Std Dev 0

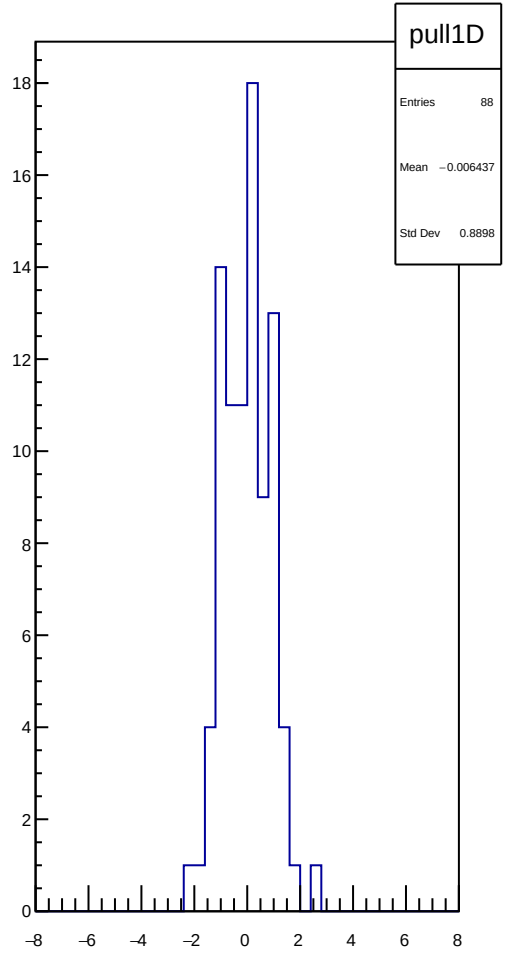

pull1D
Entries 88
Mean −0.01491
Std Dev 1.079

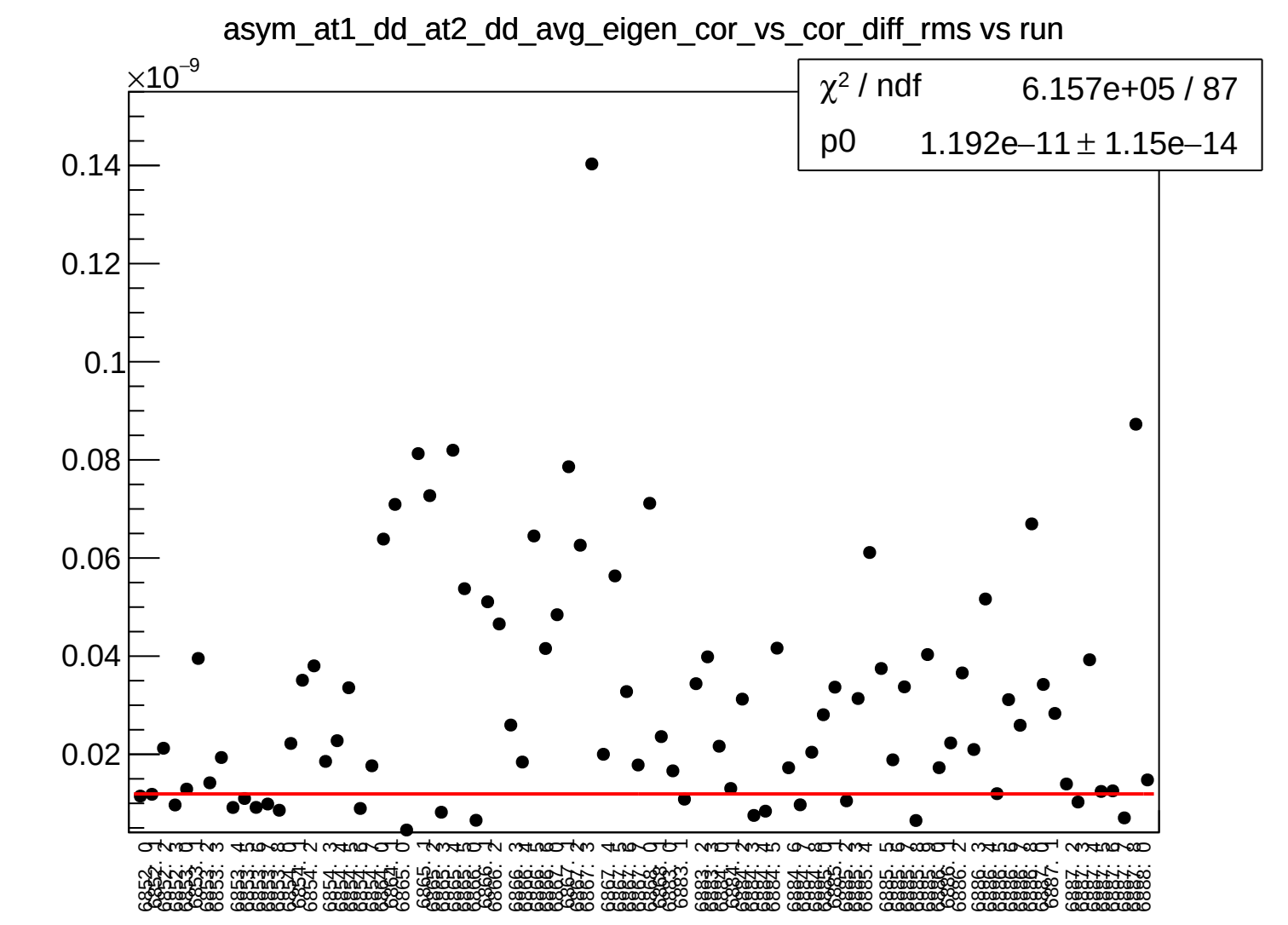

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.099e+05 / 87
p0 42.22 ± 0.03358
80
70
60
50
40
30

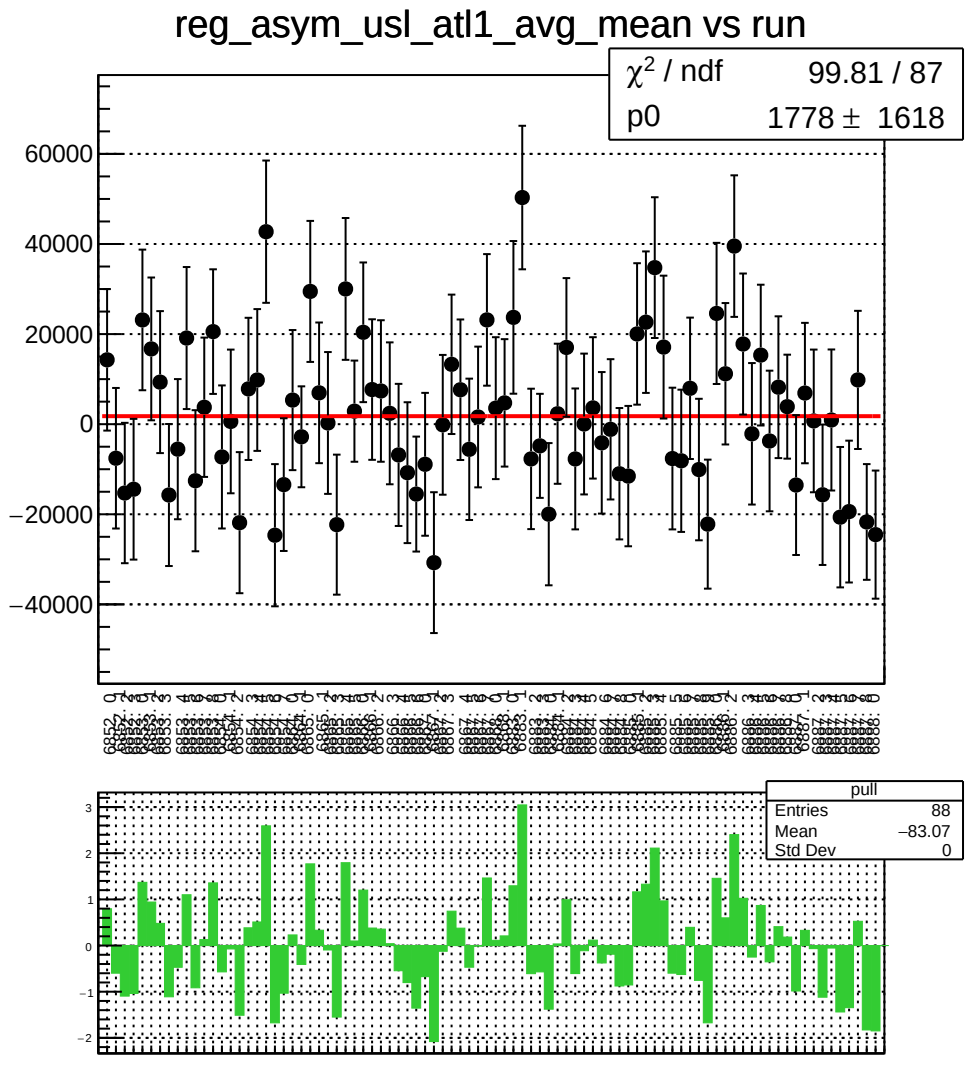

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.5 / 87
p0 0.08339 ± 0.04749
pull
Entries 88
Mean 232.6
Std Dev 0
pull1D
Entries 88
Mean −0.01491
Std Dev 1.079

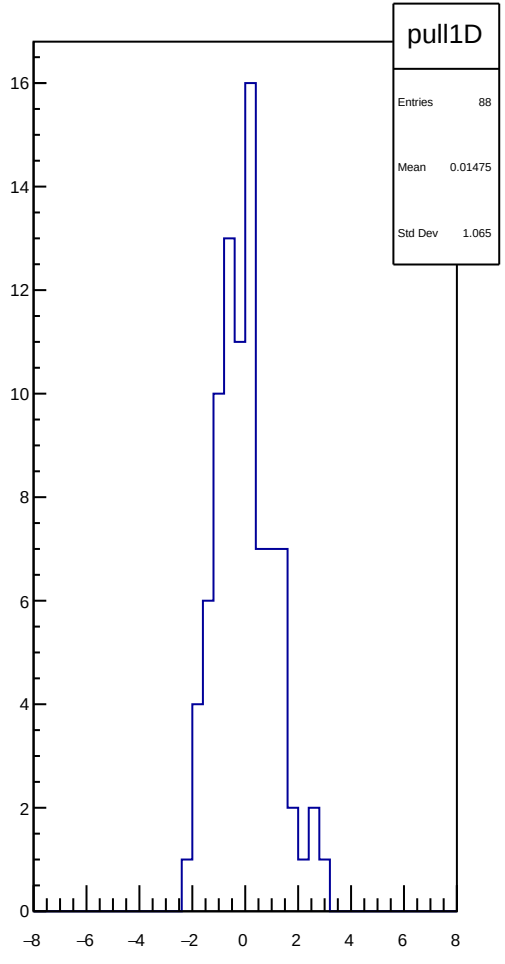

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.099e+05 / 87
p0 42.22 ± 0.03358
80
70
60
50
40
30

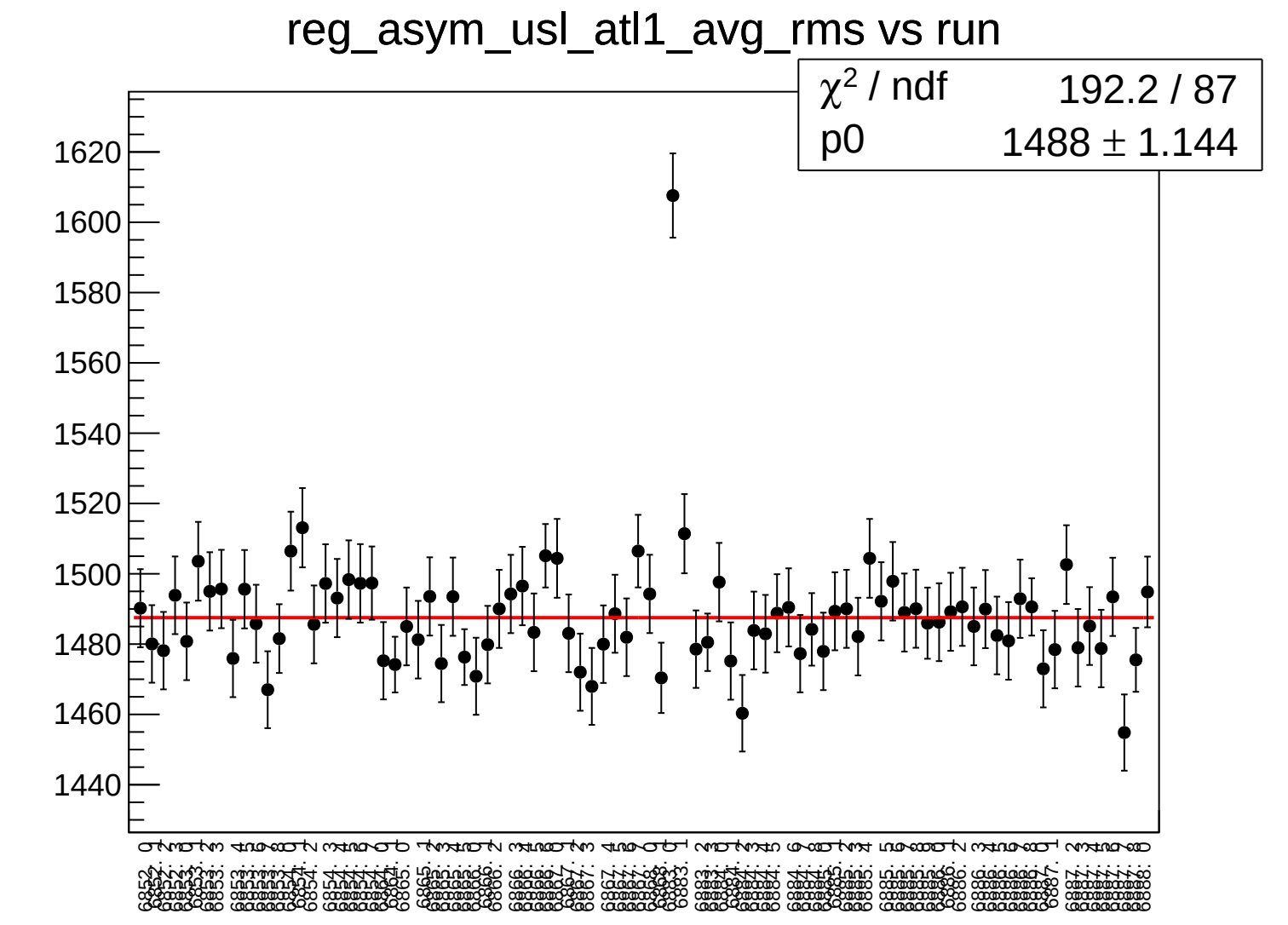

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 69.68 / 87
p0 1.53e−14 ± 1.626e−14
pull
Entries 88
Mean −71.37
Std Dev 0

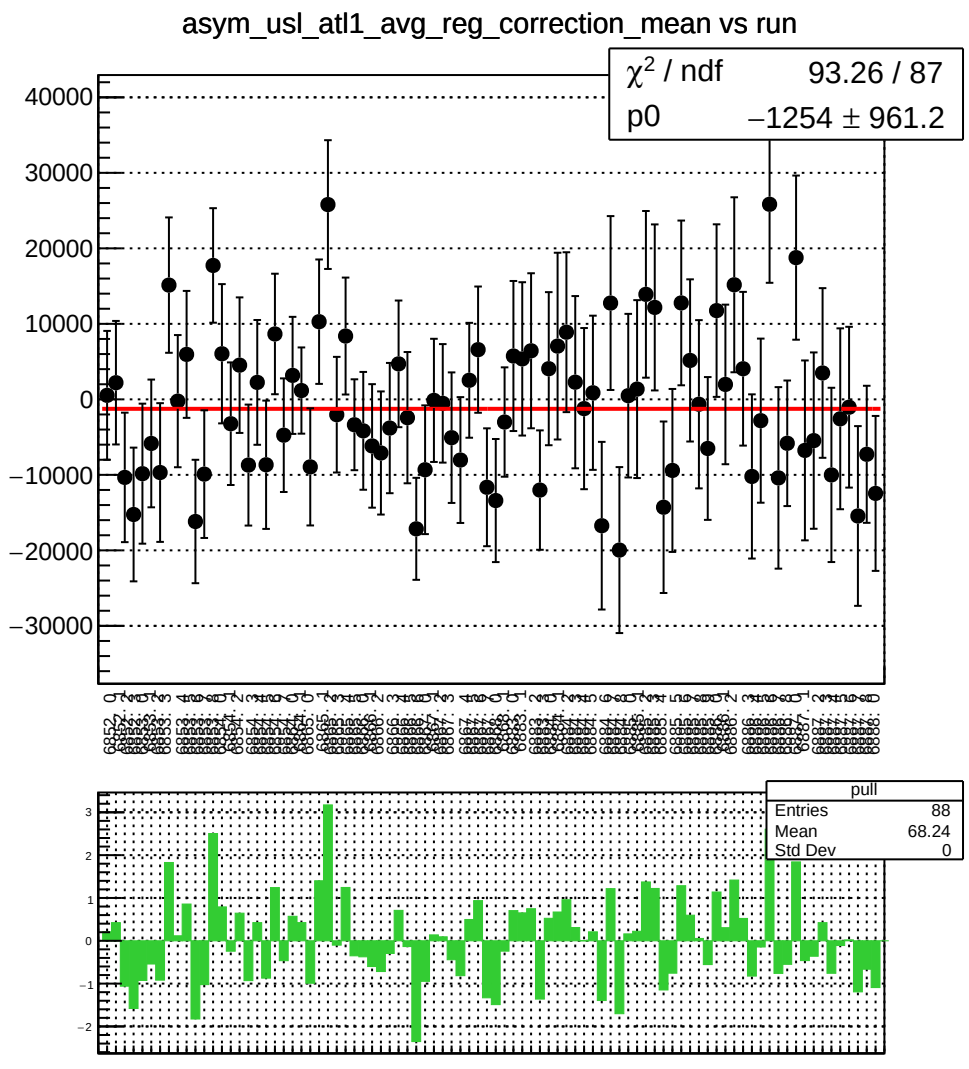

pull1D
Entries 88
Mean −0.006437
Std Dev 0.8898

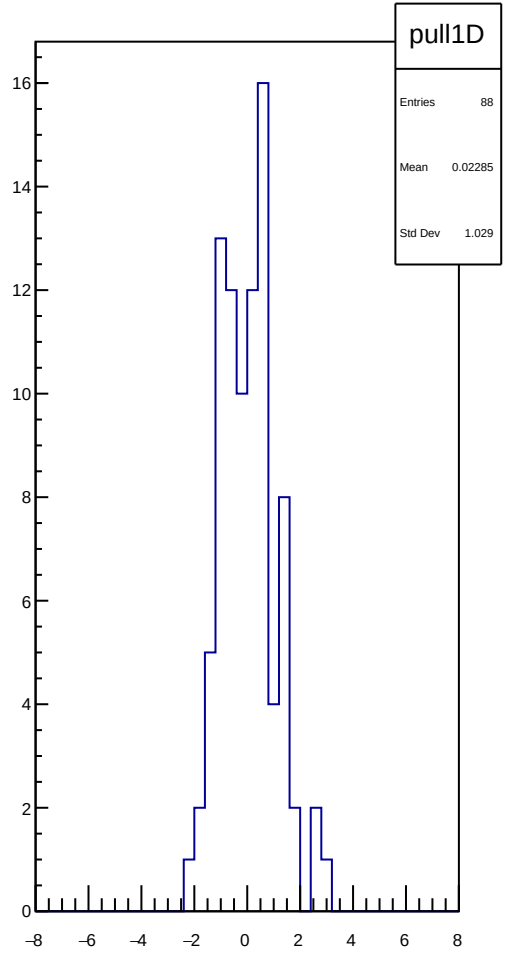

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.157e+05 / 87
p0 1.192e−11 ± 1.15e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

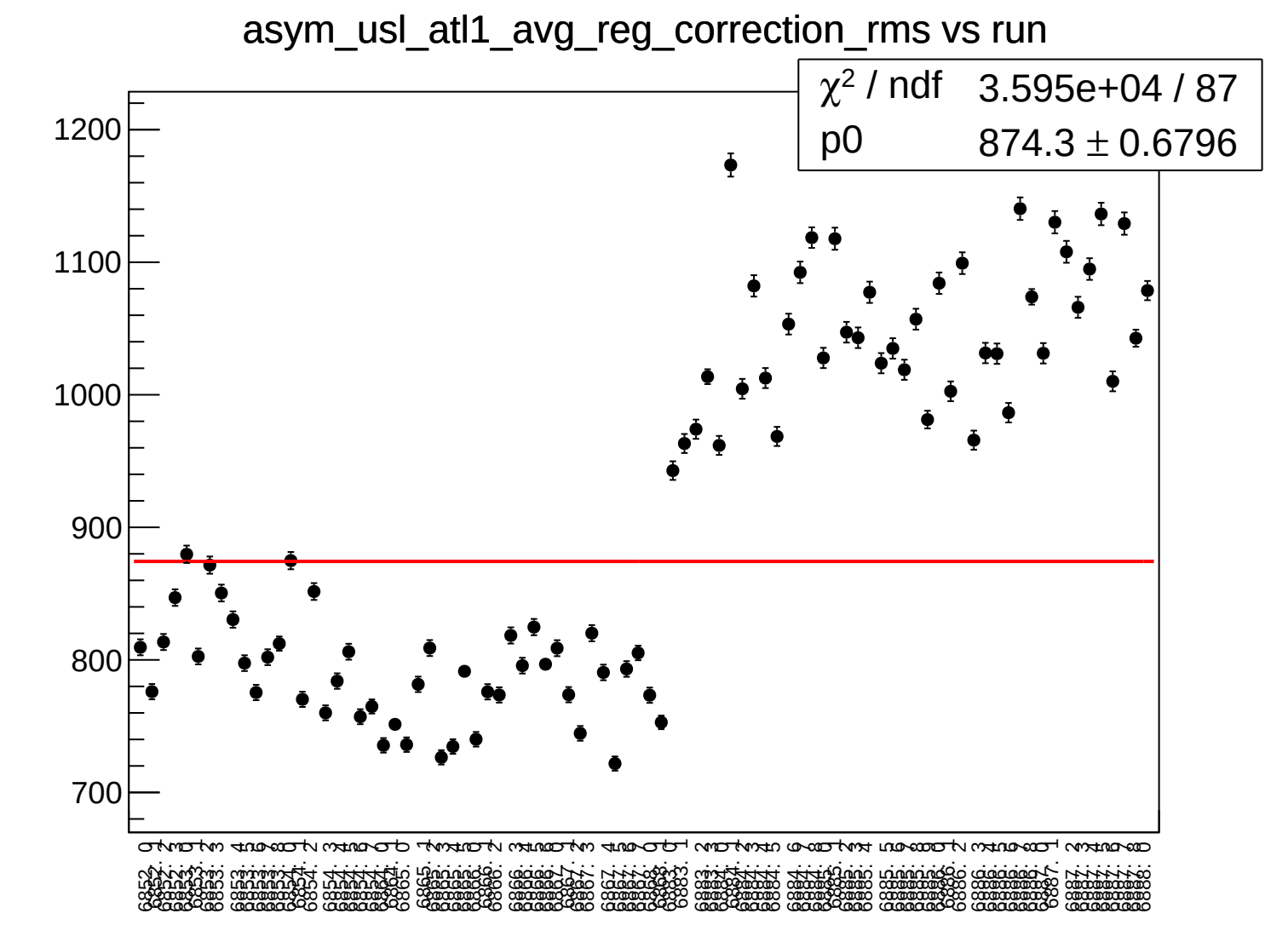

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 99.81 / 87
p0 1778 ± 1618
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −83.07
Std Dev 0
3
2
1
0
−1
−2

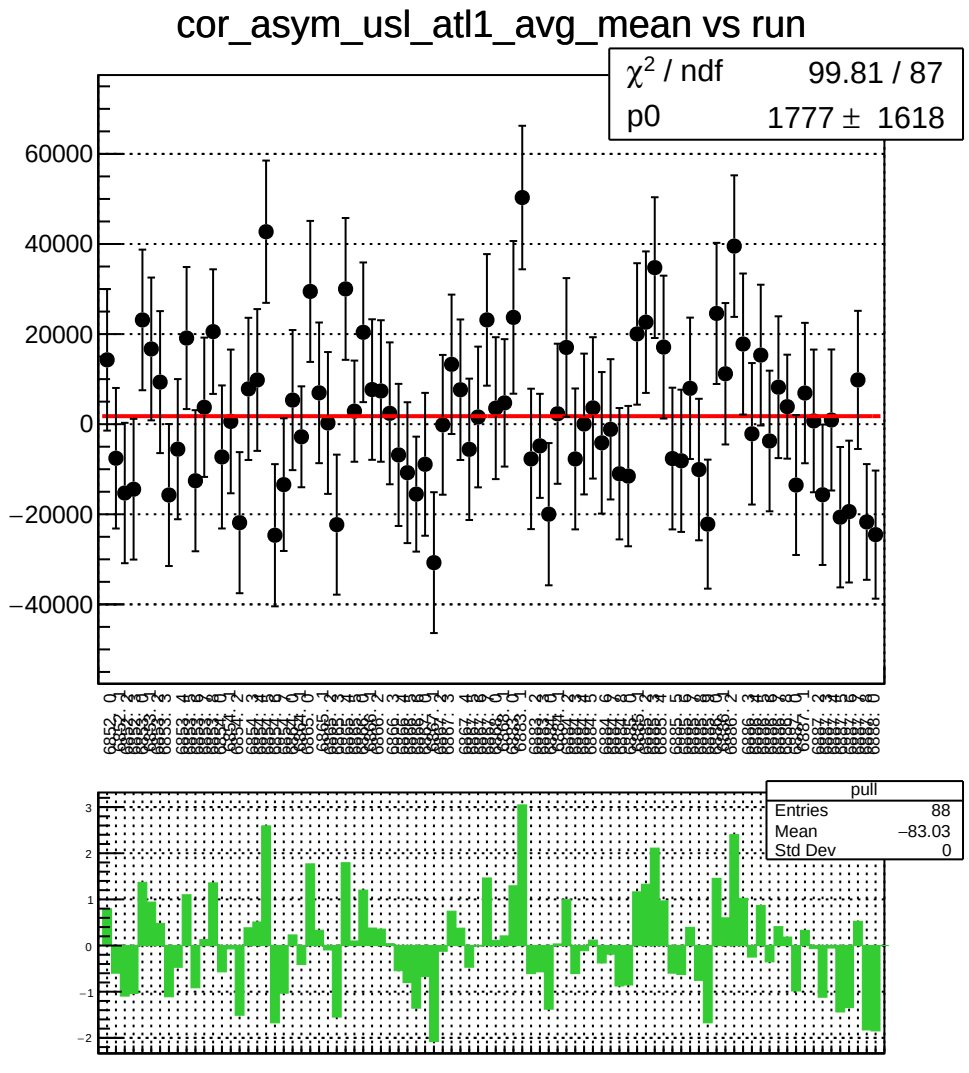

pull1D
Entries 88
Mean 0.01475
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

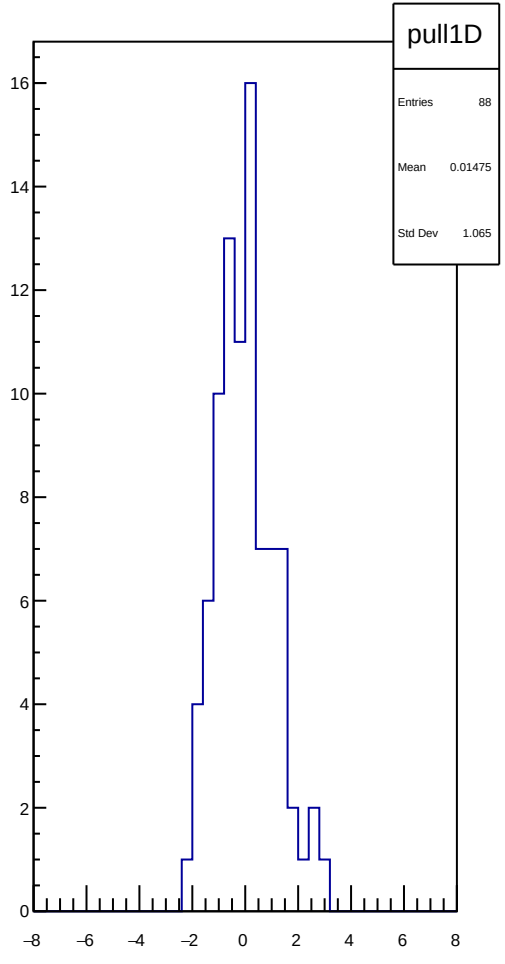

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 192.2 / 87
p0 1488 ± 1.144
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440

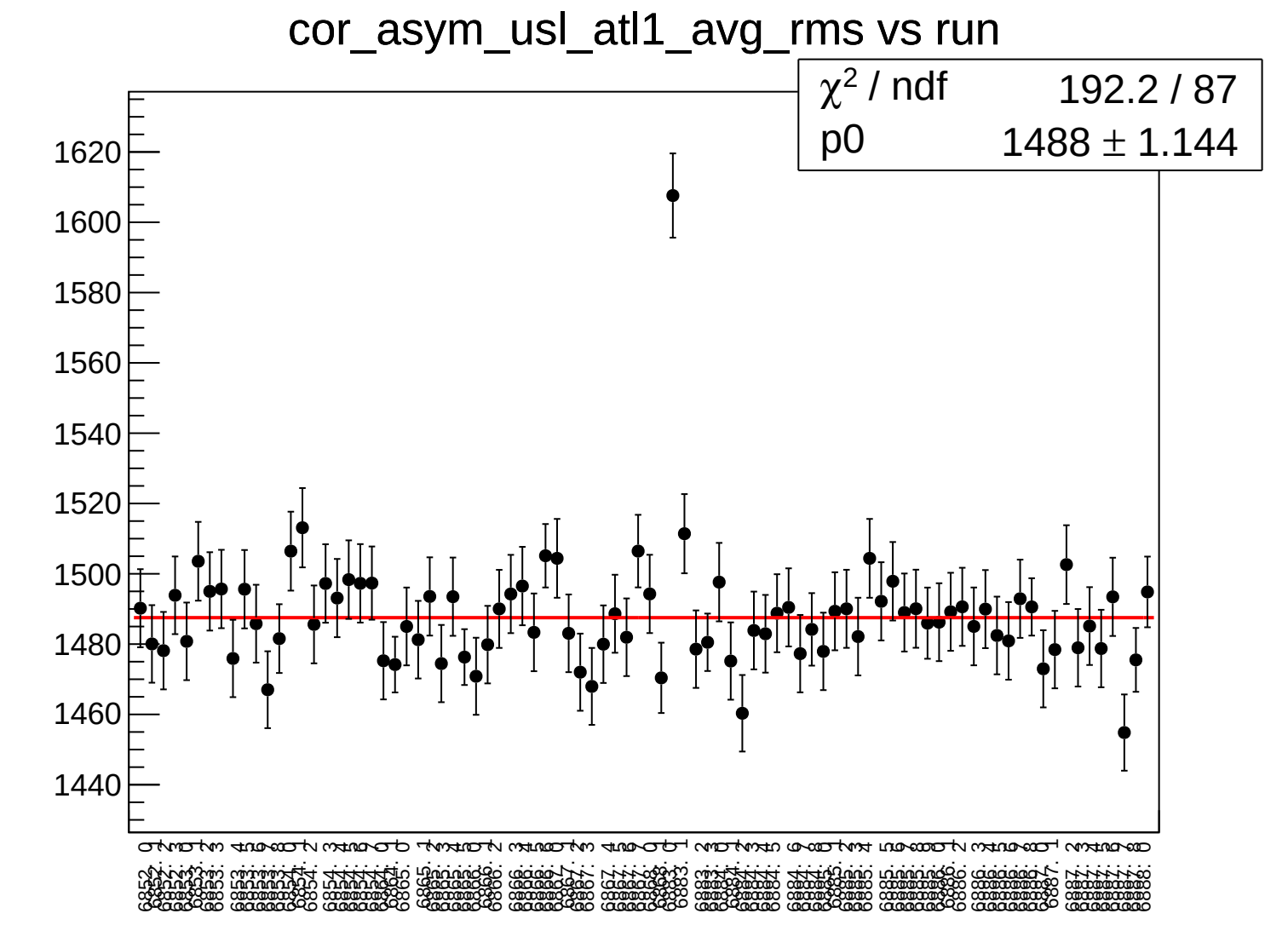

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 93.26 / 87
p0 −1254 ± 961.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 68.24
Std Dev 0
3
2
1
0
−1
−2

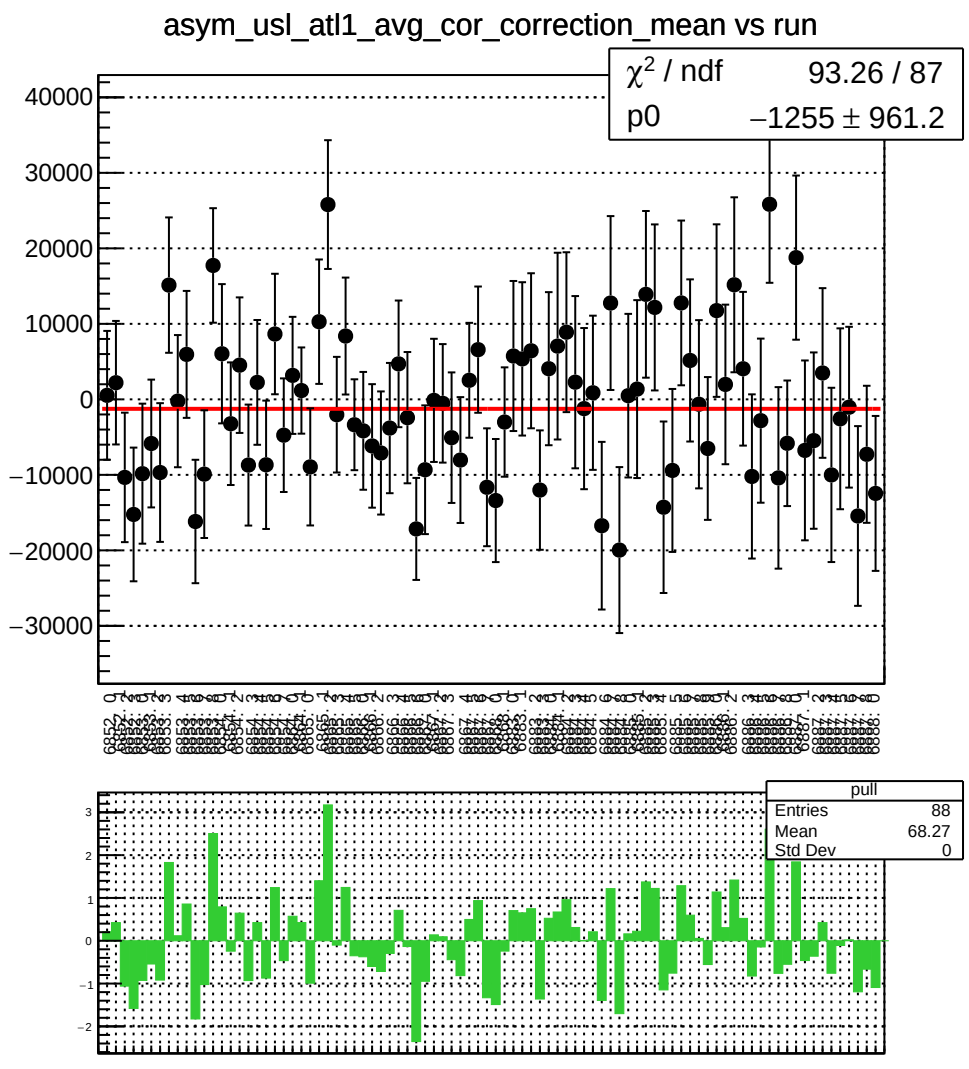

pull1D
Entries 88
Mean 0.02285
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

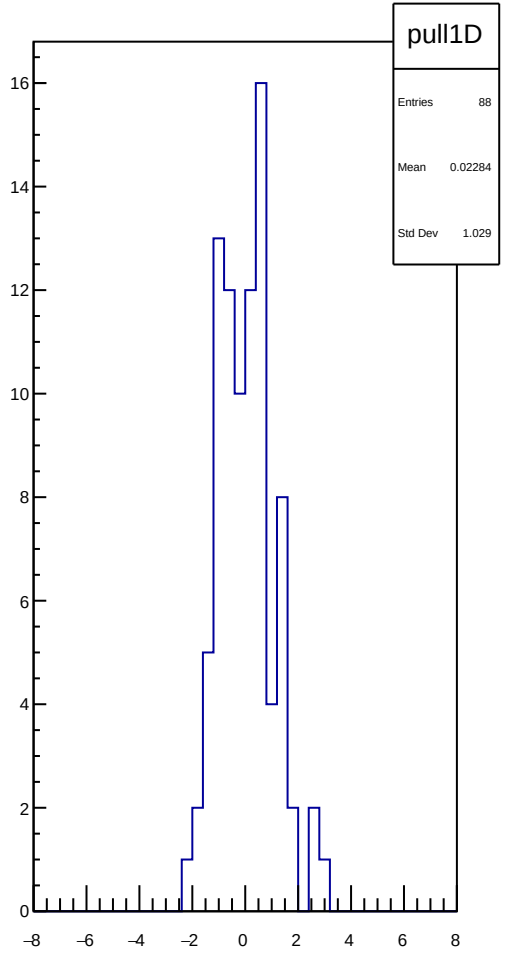

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 3.595e+04 / 87
p0 874.3 ± 0.6796
1200
1100
1000
900
800
700

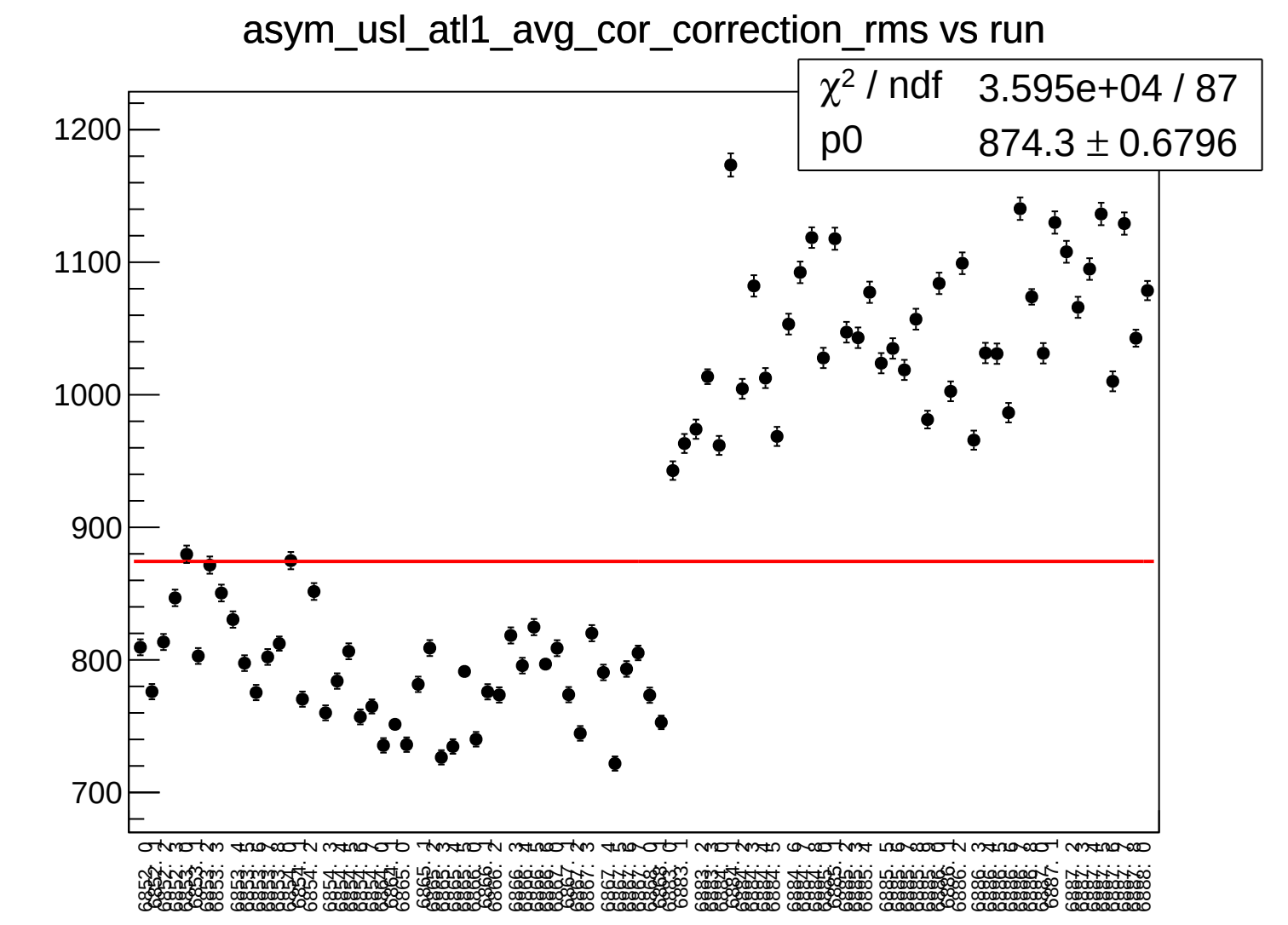

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 99.81 / 87
p0 1777 ± 1618
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −83.03
Std Dev 0
3
2
1
0
−1
−2

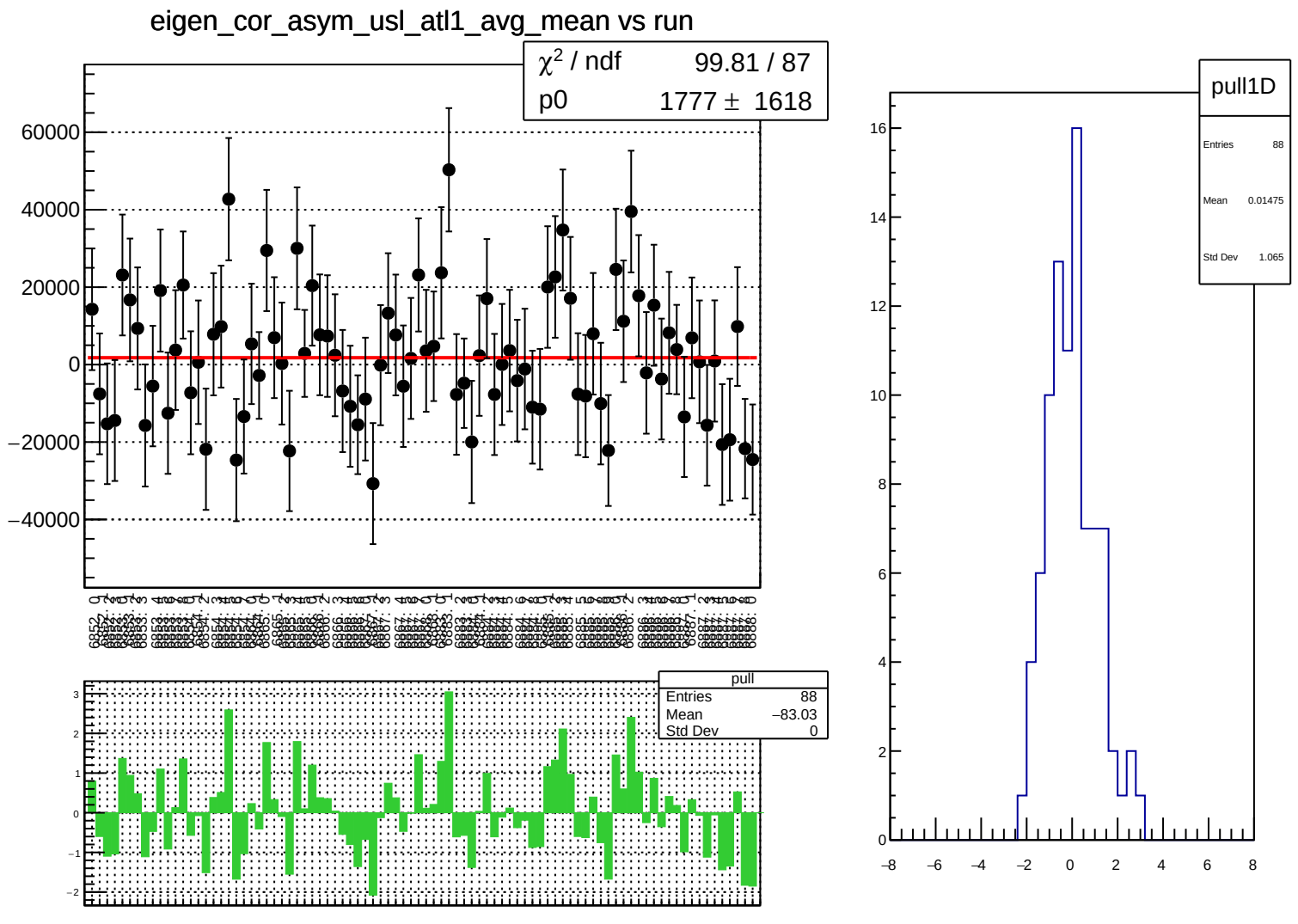

pull1D
Entries 88
Mean 0.01475
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

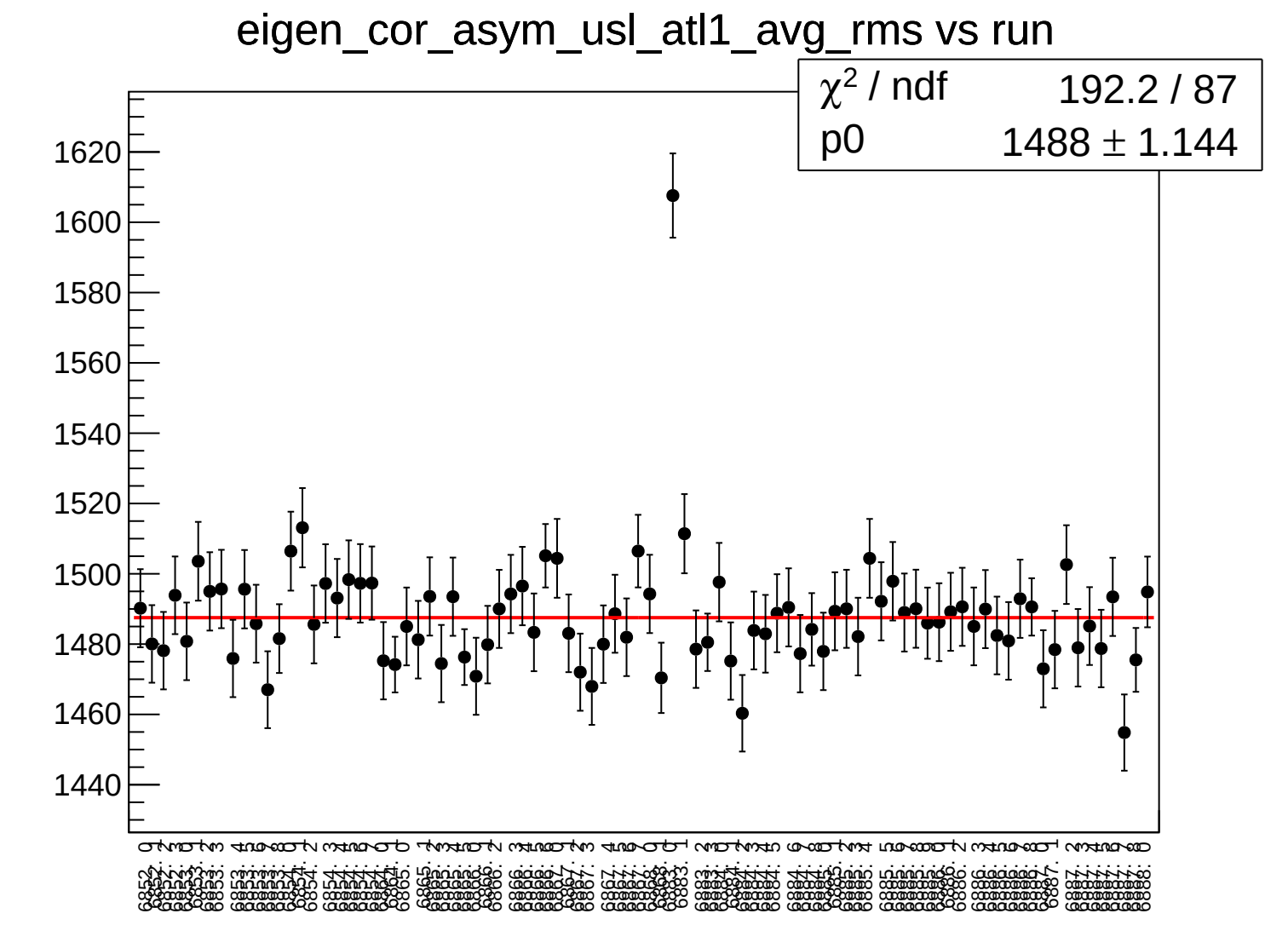

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 192.2 / 87
p0 1488 ± 1.144
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440

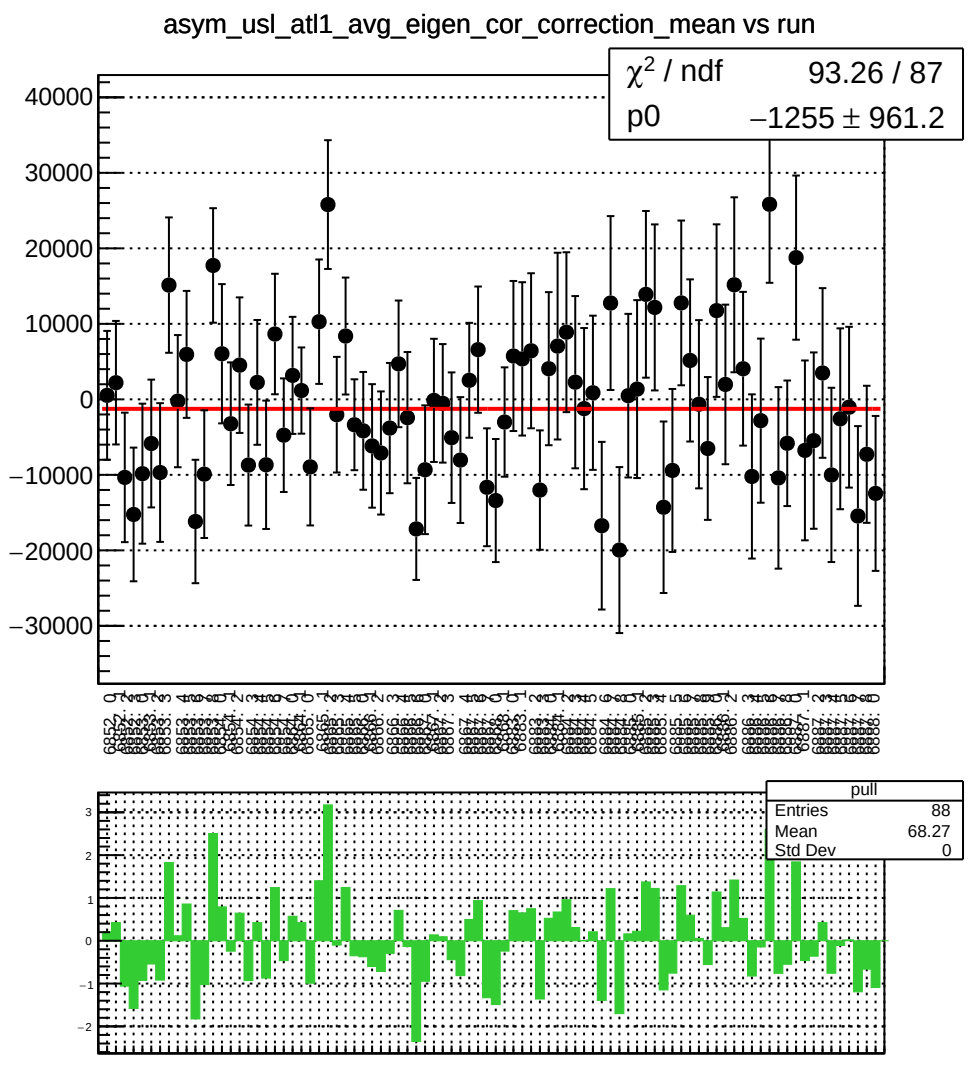

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 93.26 / 87
p0 −1255 ± 961.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 68.27
Std Dev 0
3
2
1
0
−1
−2

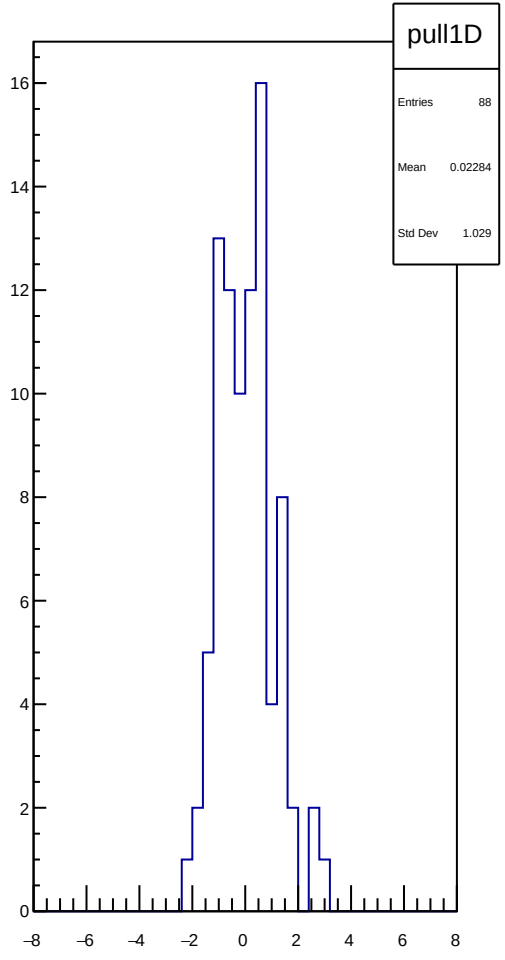

pull1D
Entries 88
Mean 0.02284
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

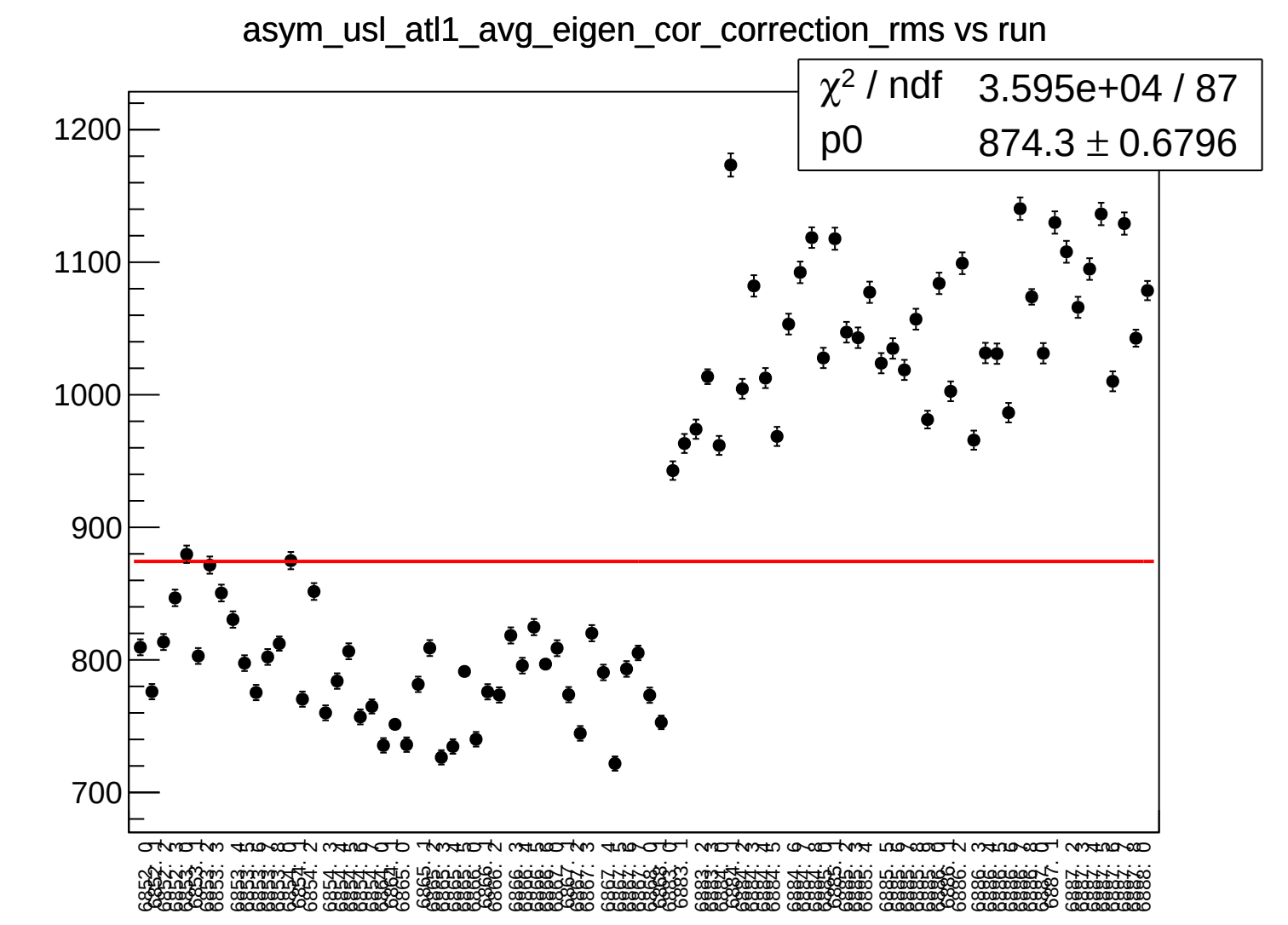

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 3.595e+04 / 87
p0 874.3 ± 0.6796
1200
1100
1000
900
800
700

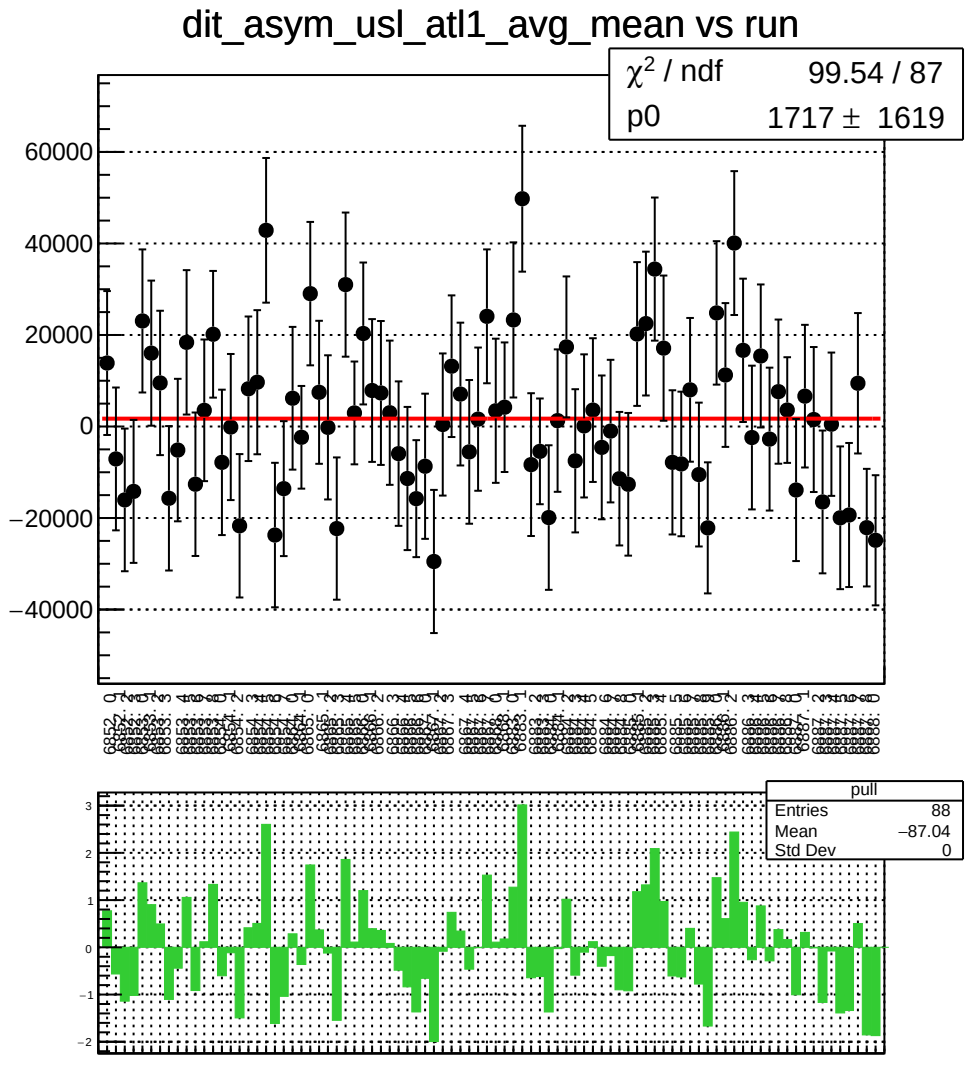

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 99.81 / 87
p0 1777 ± 1618
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −83.03
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01475
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

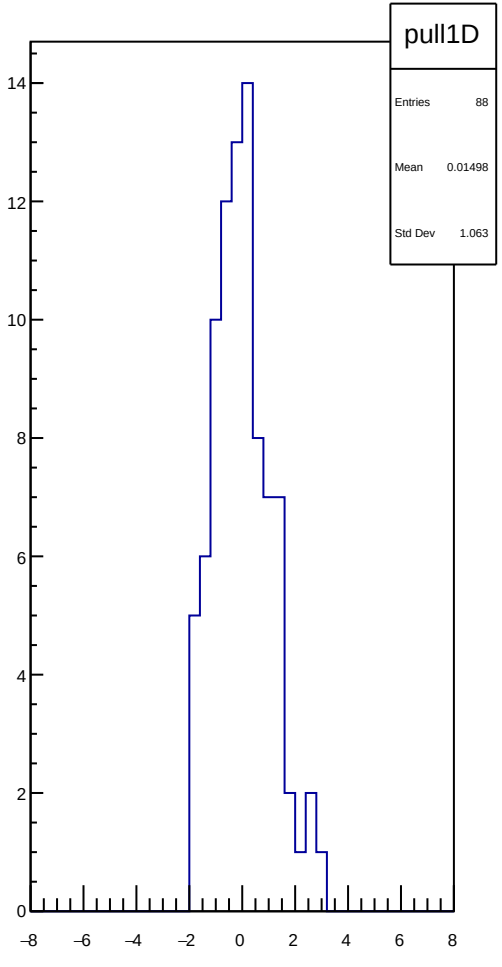

eigen_cor_asym_usl_atl1_avg_rms vs run
χ^2 / ndf 192.2 / 87
p0 1488 ± 1.144
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440

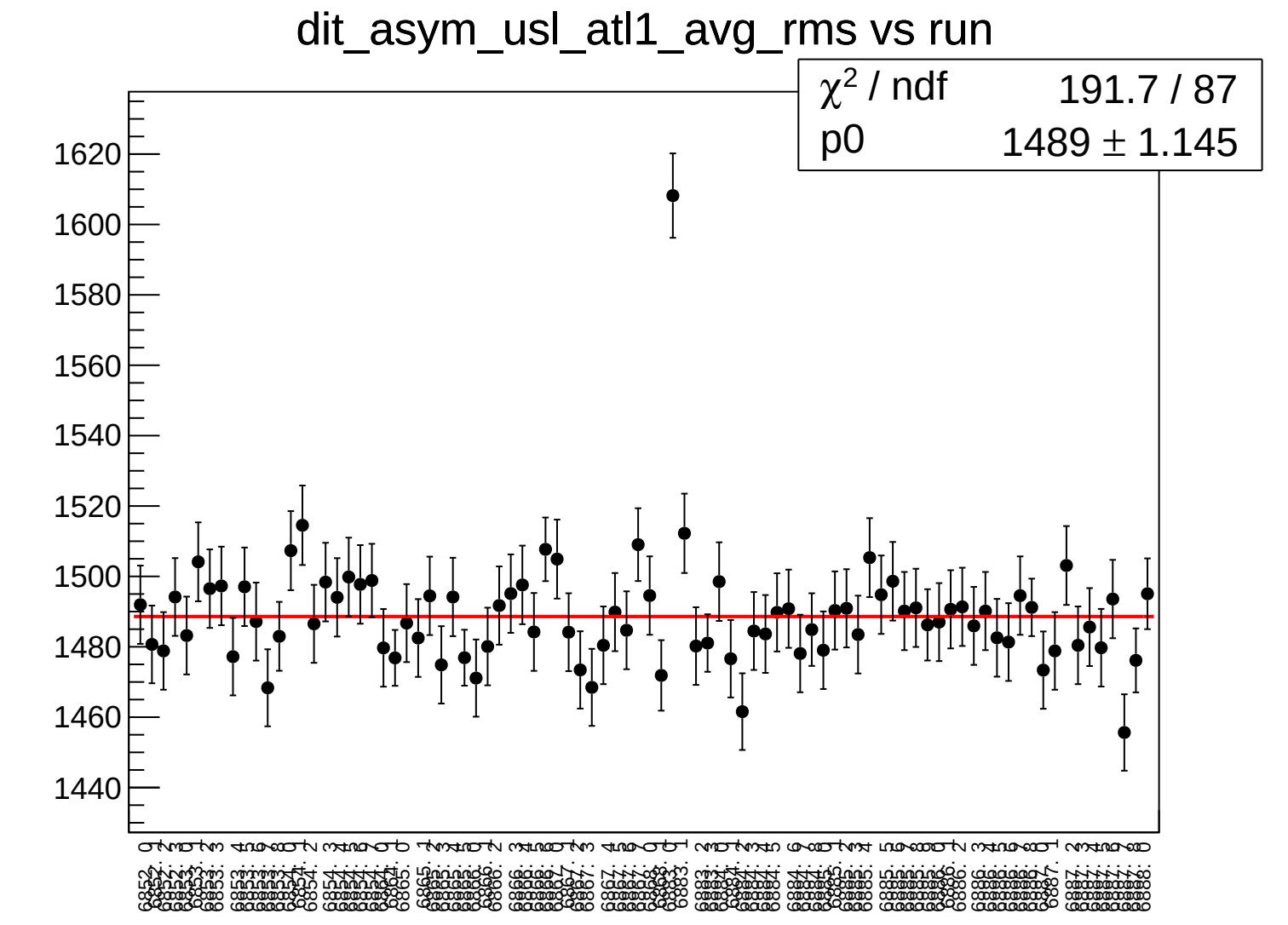

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 93.26 / 87
p0 −1255 ± 961.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 68.27
Std Dev 0
3
2
1
0
−1
−2

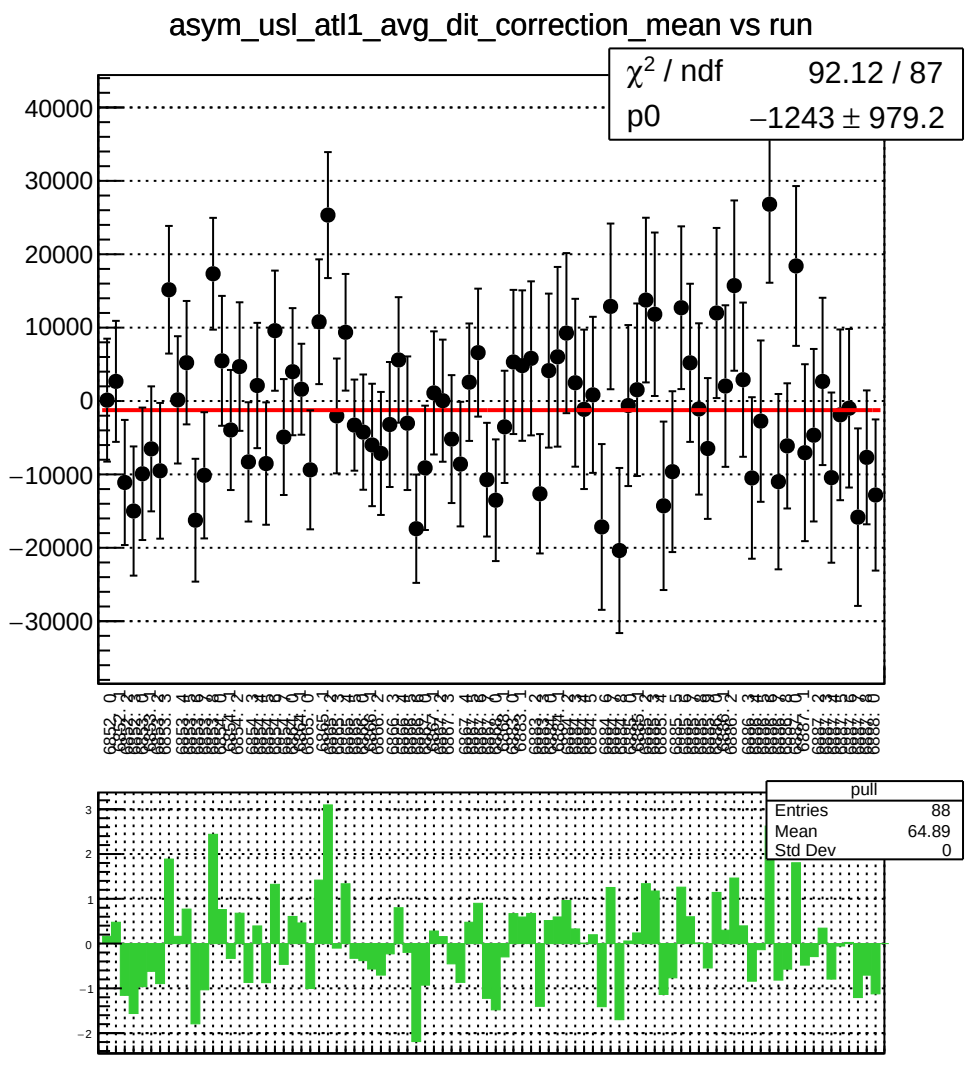

pull1D
Entries 88
Mean 0.02284
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

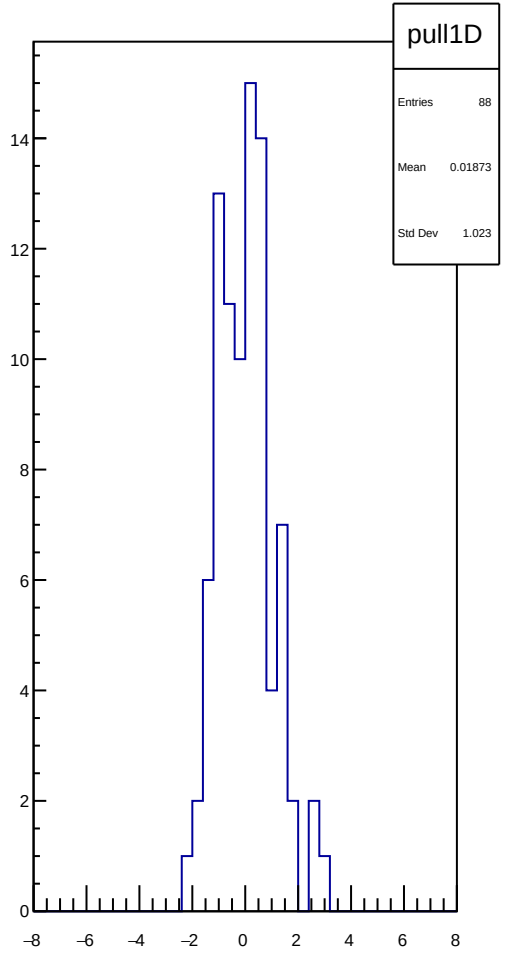

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.595e+04 / 87
p0 874.3 ± 0.6796
1200
1100
1000
900
800
700

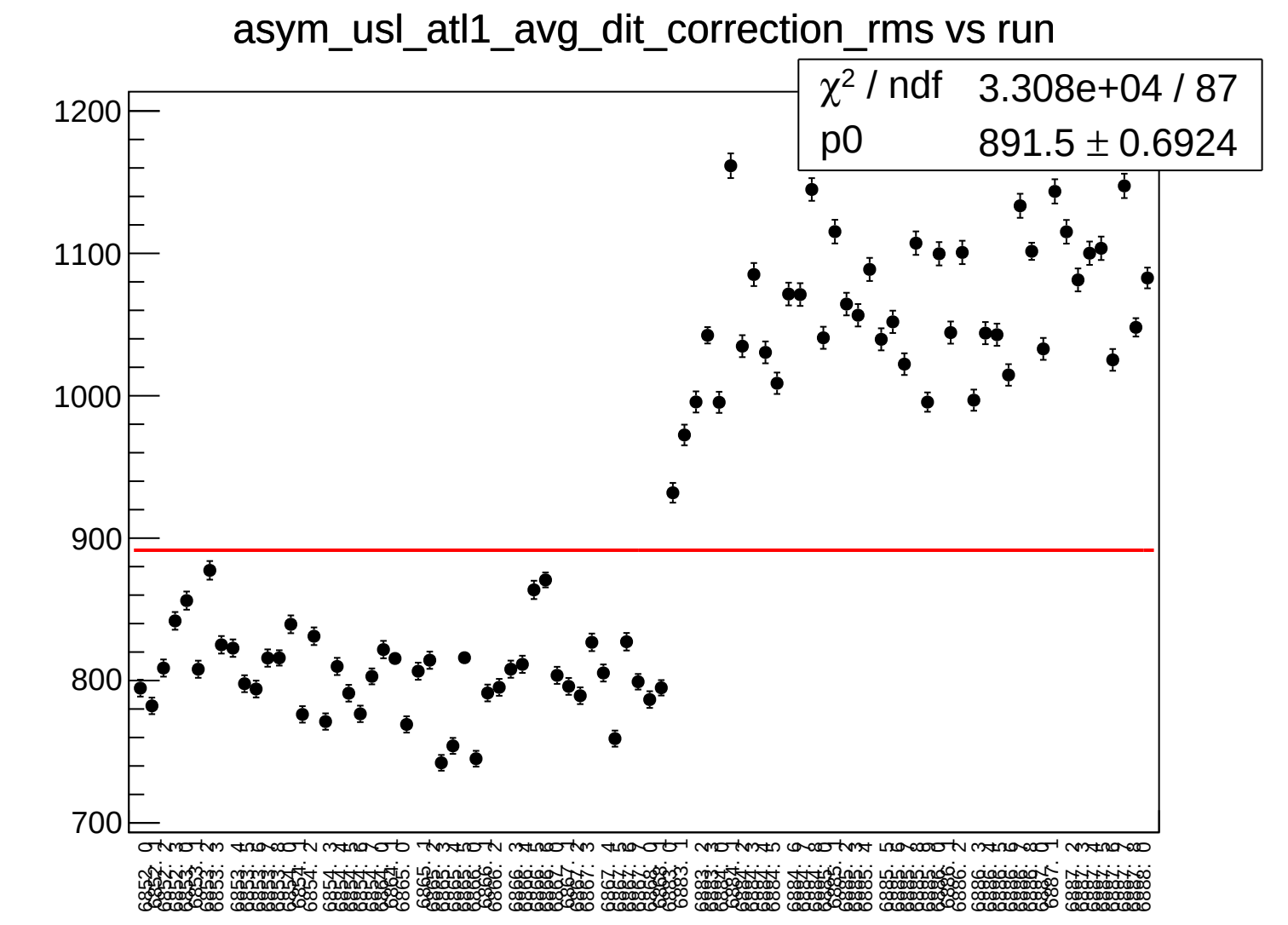

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 99.54 / 87
p0 1717 ± 1619
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −87.04
Std Dev 0
3
2
1
0
−1
−2

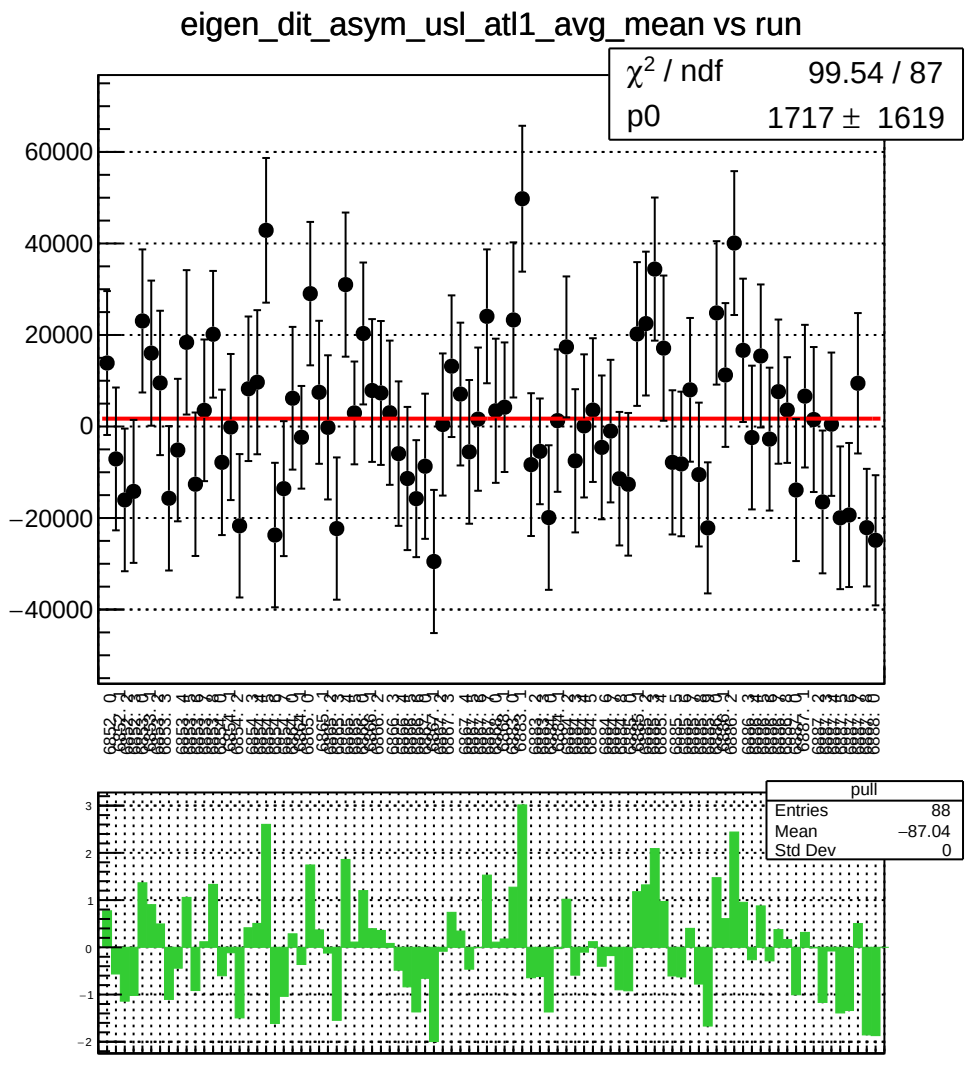

pull1D
Entries 88
Mean 0.01498
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

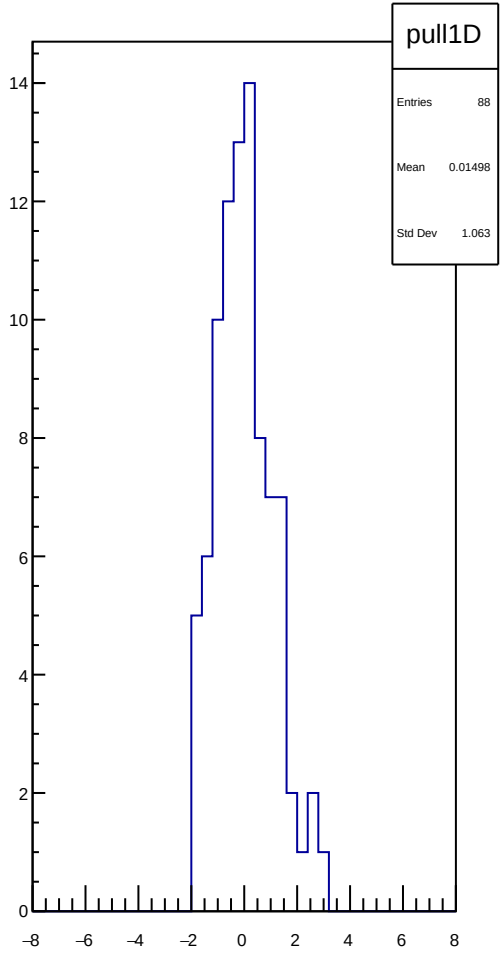

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 191.7 / 87
p0 1489 ± 1.145
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440

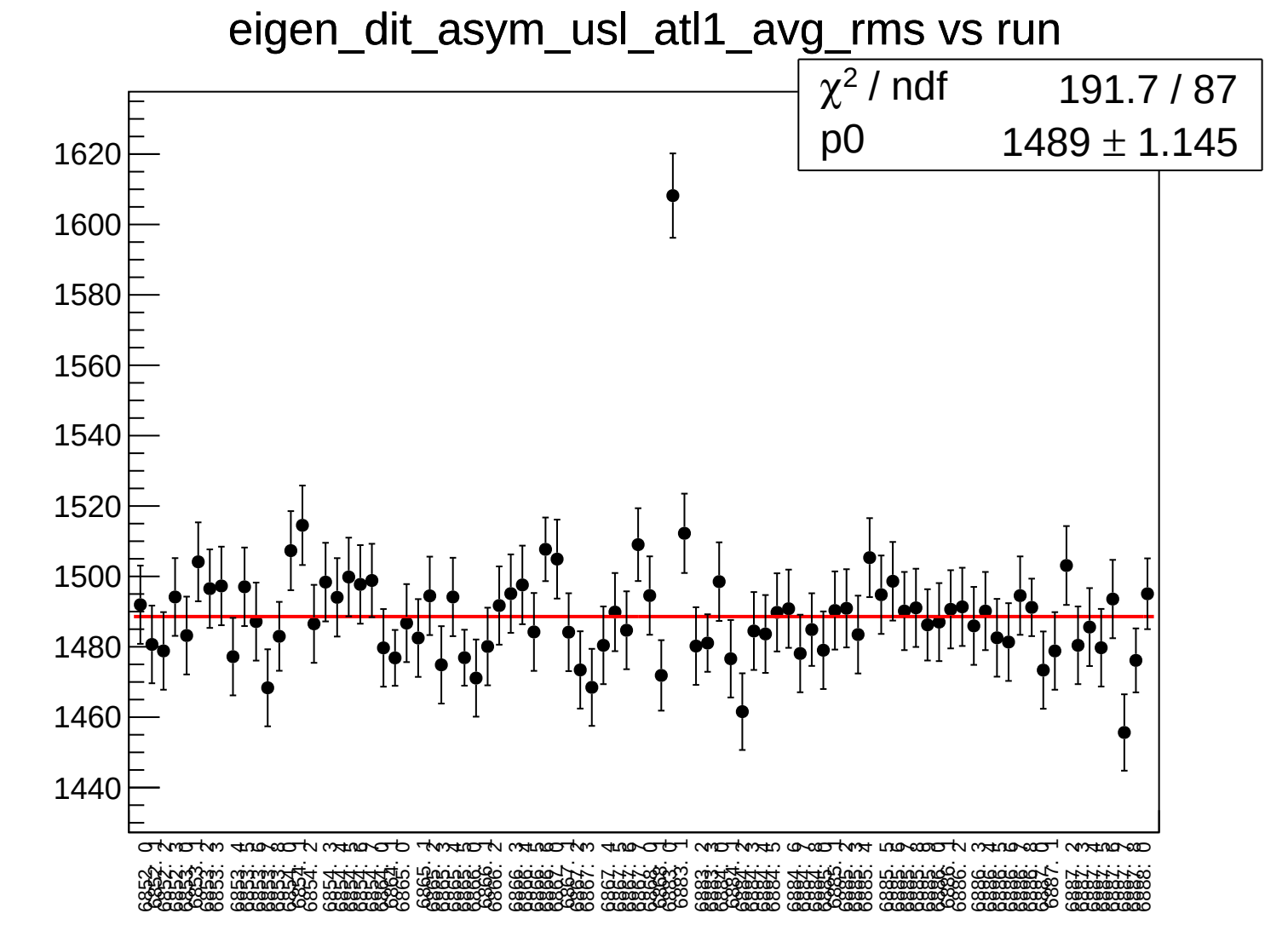

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 92.12 / 87
p0 −1243 ± 979.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 64.89
Std Dev 0
3
2
1
0
−1
−2

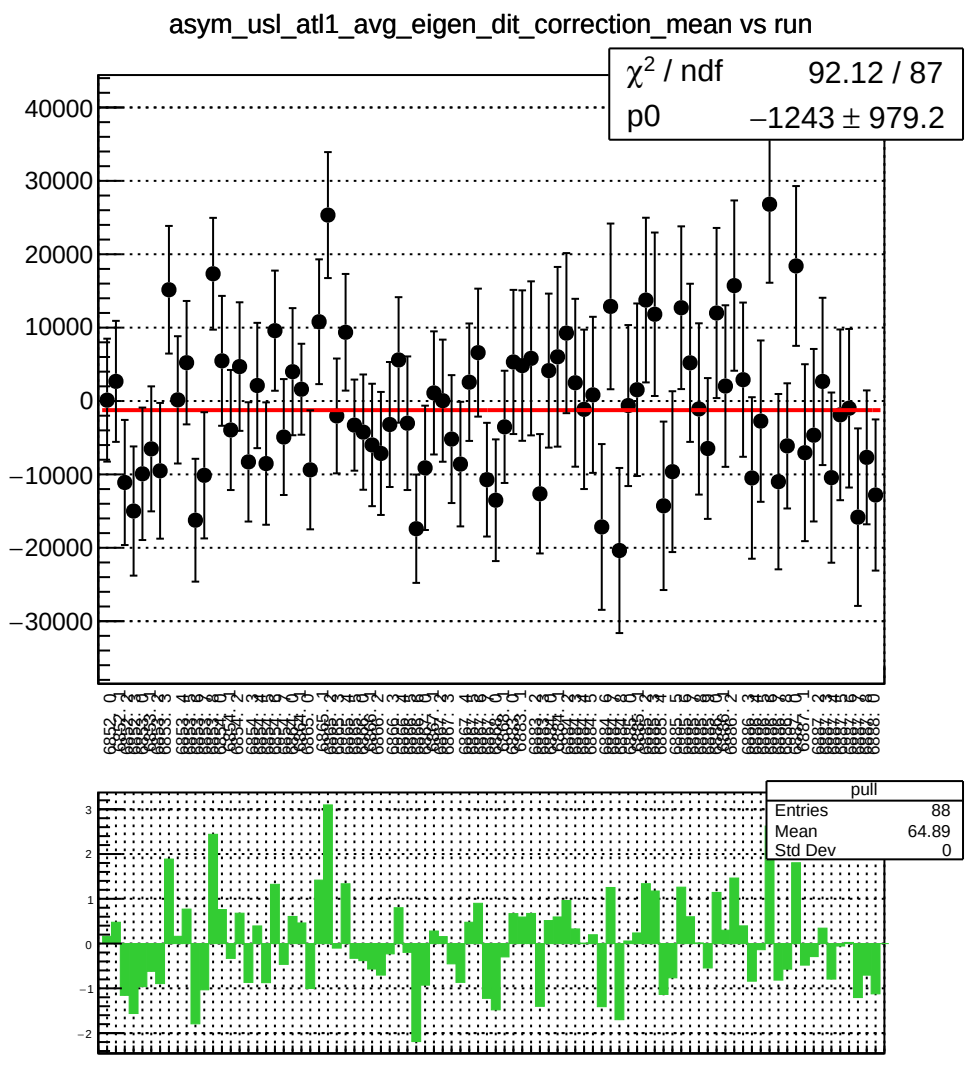

pull1D
Entries 88
Mean 0.01873
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

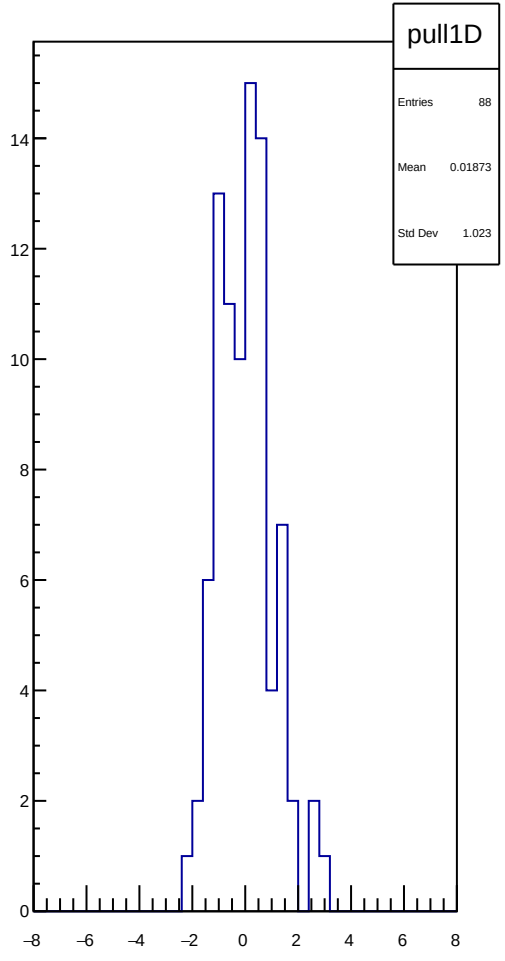

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 3.308e+04 / 87
p0 891.5 ± 0.6924
1200
1100
1000
900
800
700

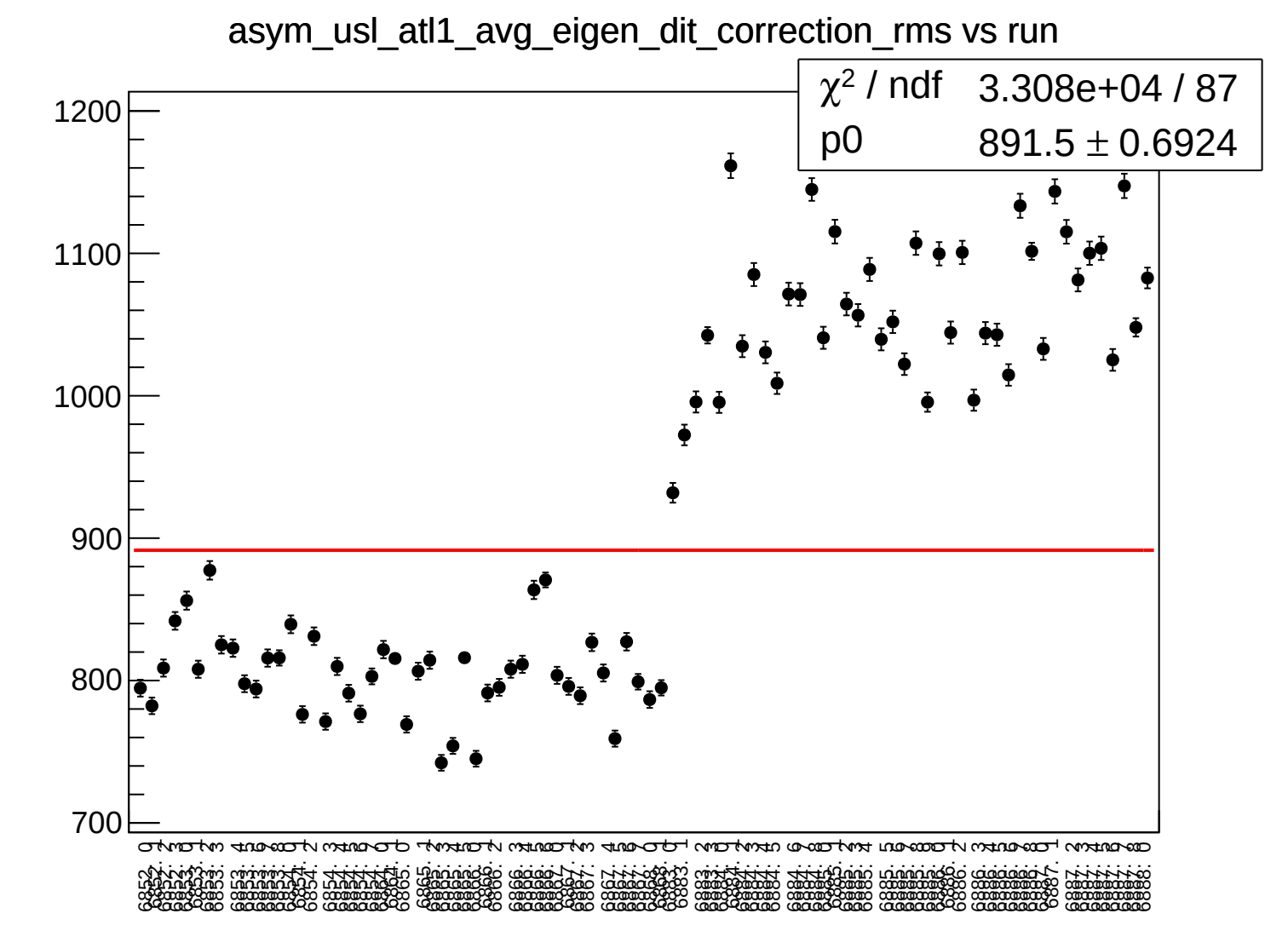

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 99.54 / 87
p0 1717 ± 1619
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −87.04
Std Dev 0
3
2
1
0
−1
−2

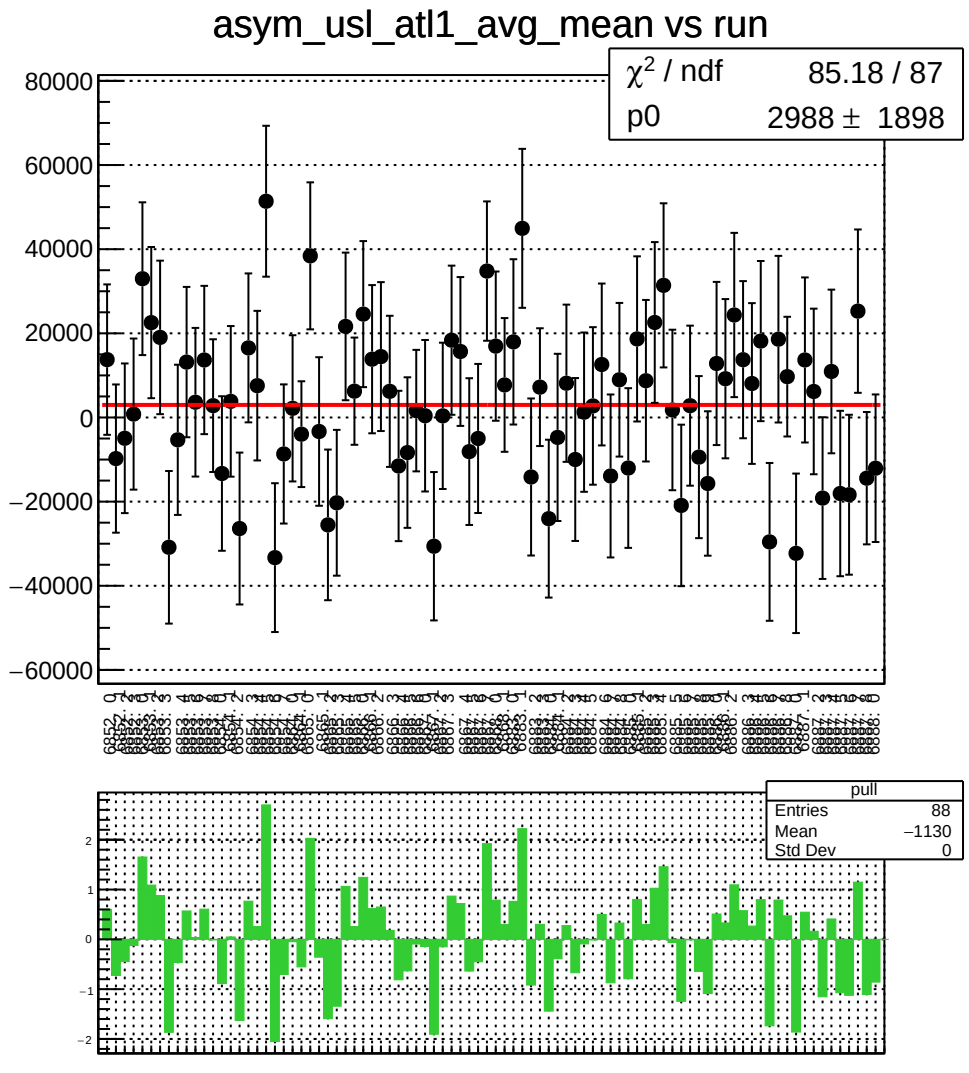

pull1D
Entries 88
Mean 0.01498
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

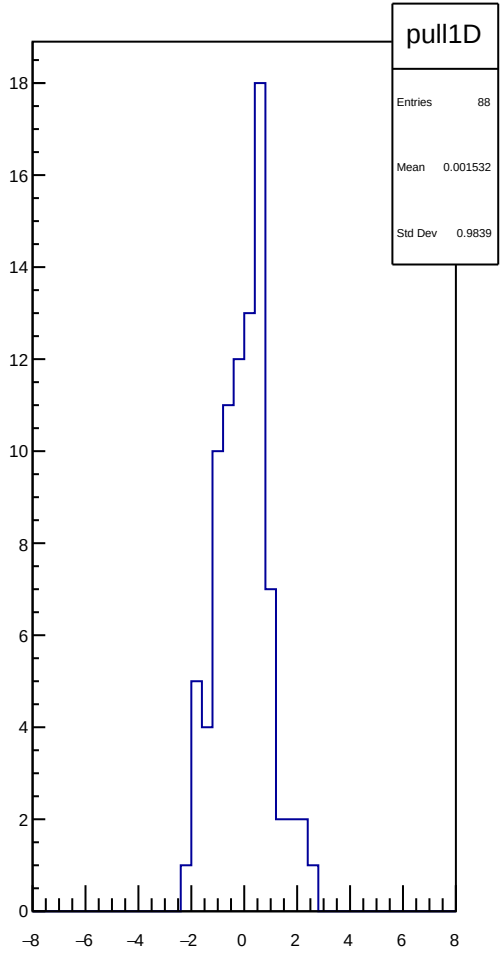

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 191.7 / 87
p0 1489 ± 1.145
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440

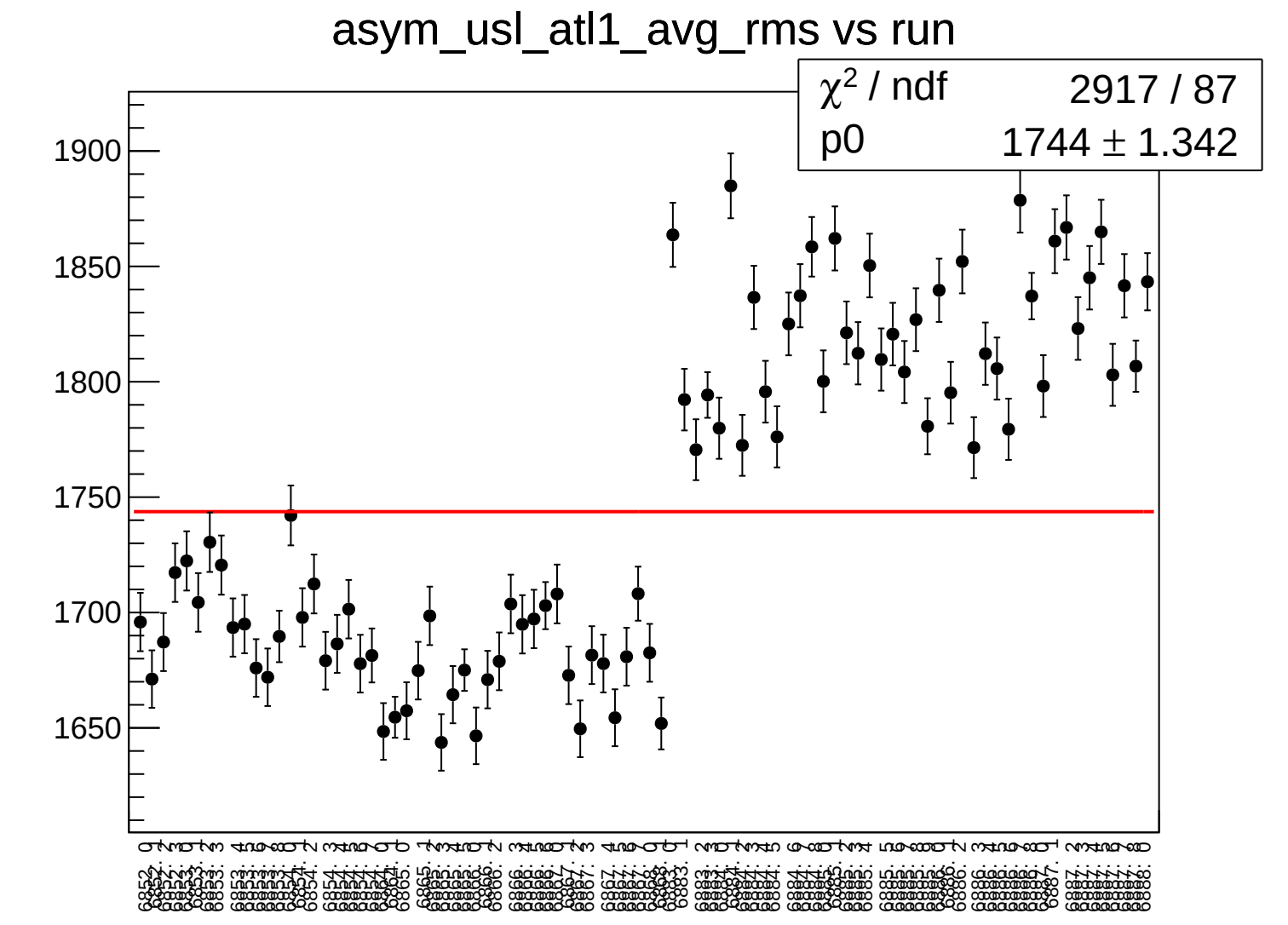

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 92.12 / 87
p0 −1243 ± 979.2
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 64.89
Std Dev 0
3
2
1
0
−1
−2

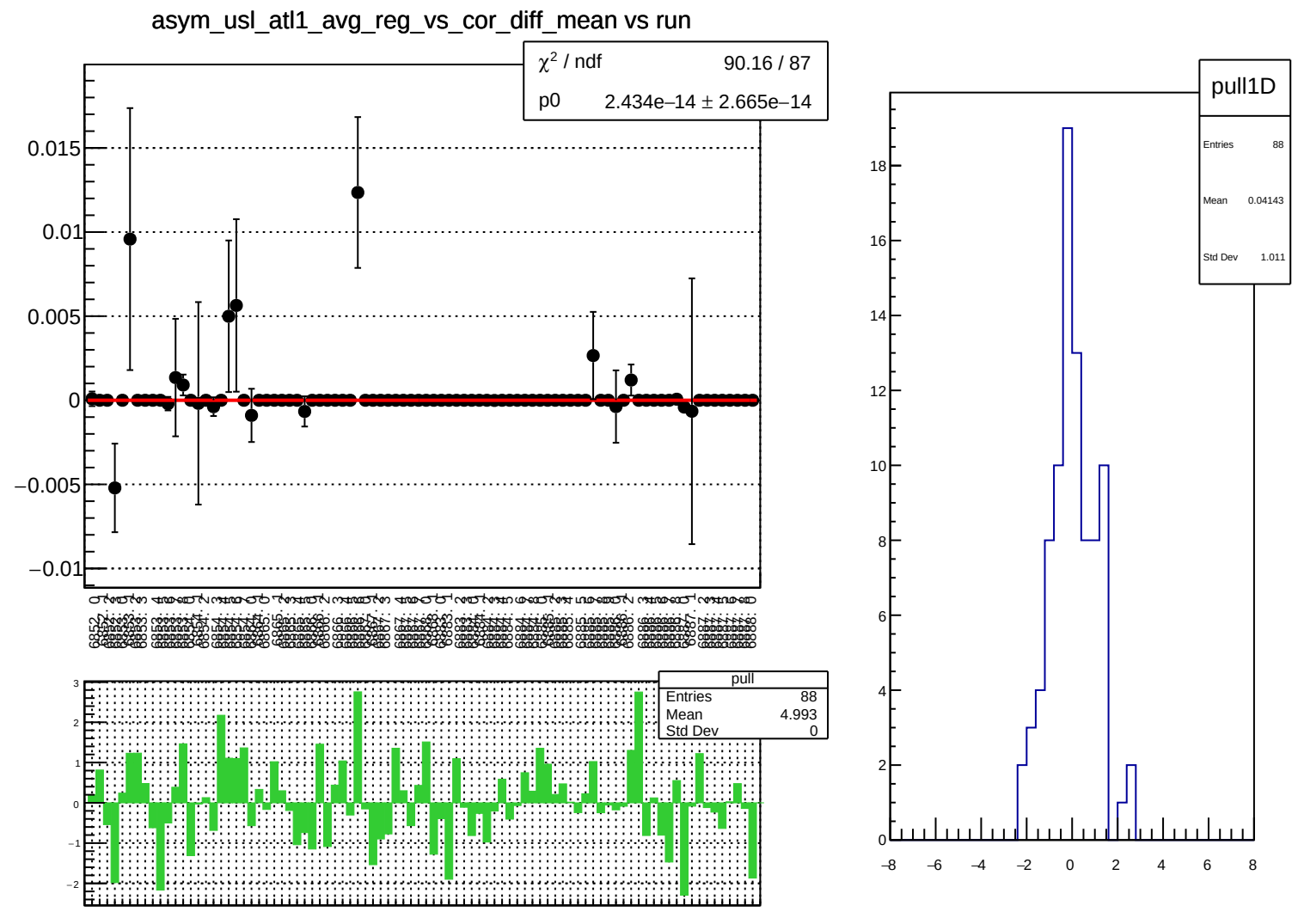

pull1D
Entries 88
Mean 0.01873
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

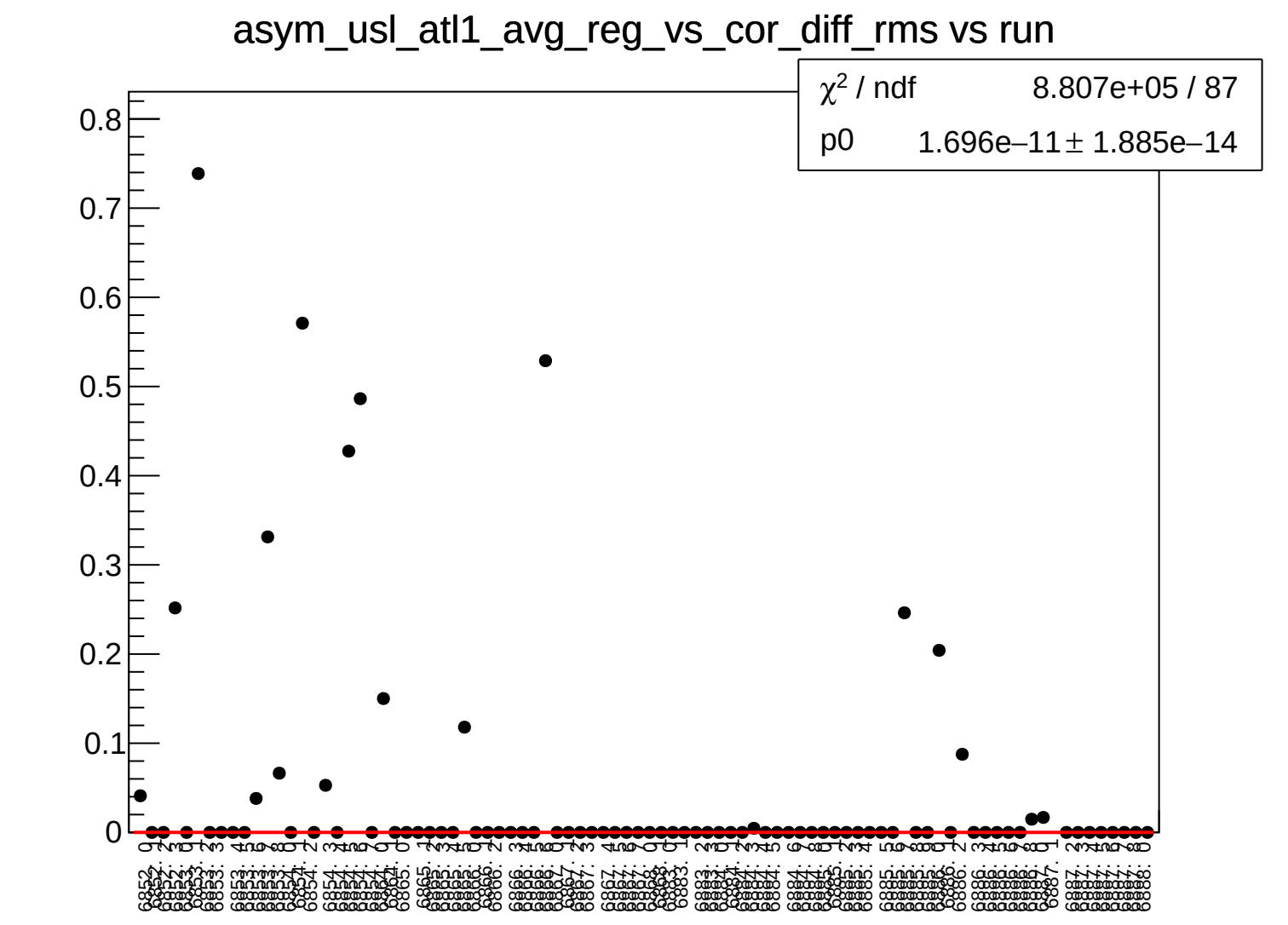

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.308e+04 / 87
p0 891.5 ± 0.6924
1200
1100
1000
900
800
700

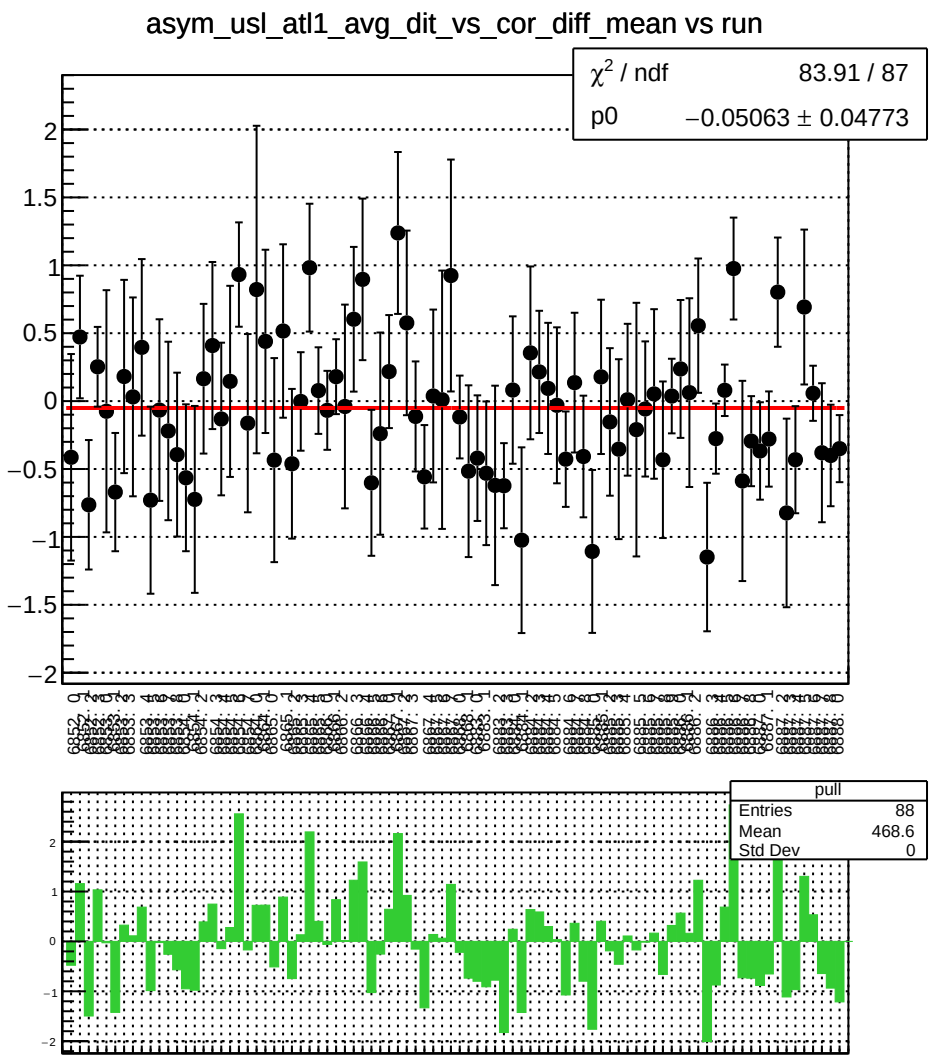

asym_usl_atl1_avg_mean vs run
χ² / ndf 85.18 / 87
p0 2988 ± 1898
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −1130
Std Dev 0
2
1
0
−1
−2

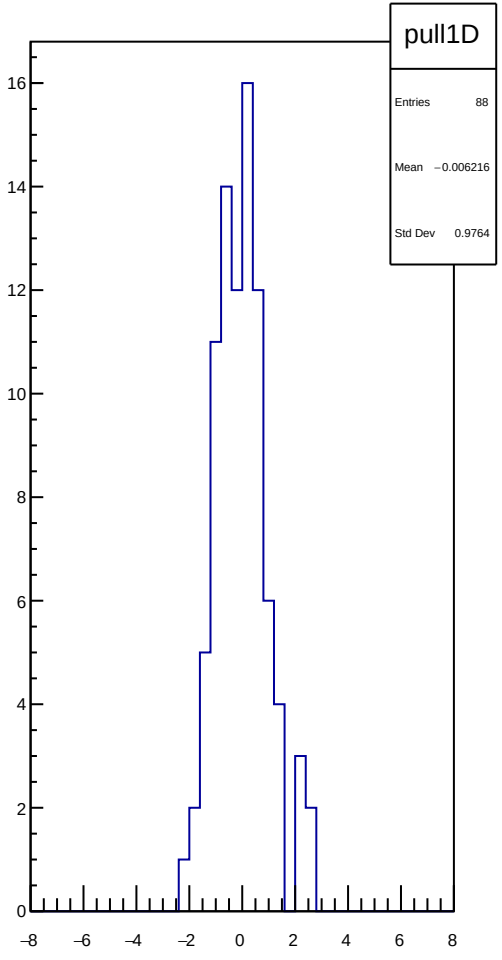

pull1D
Entries 88
Mean 0.001532
Std Dev 0.9839
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

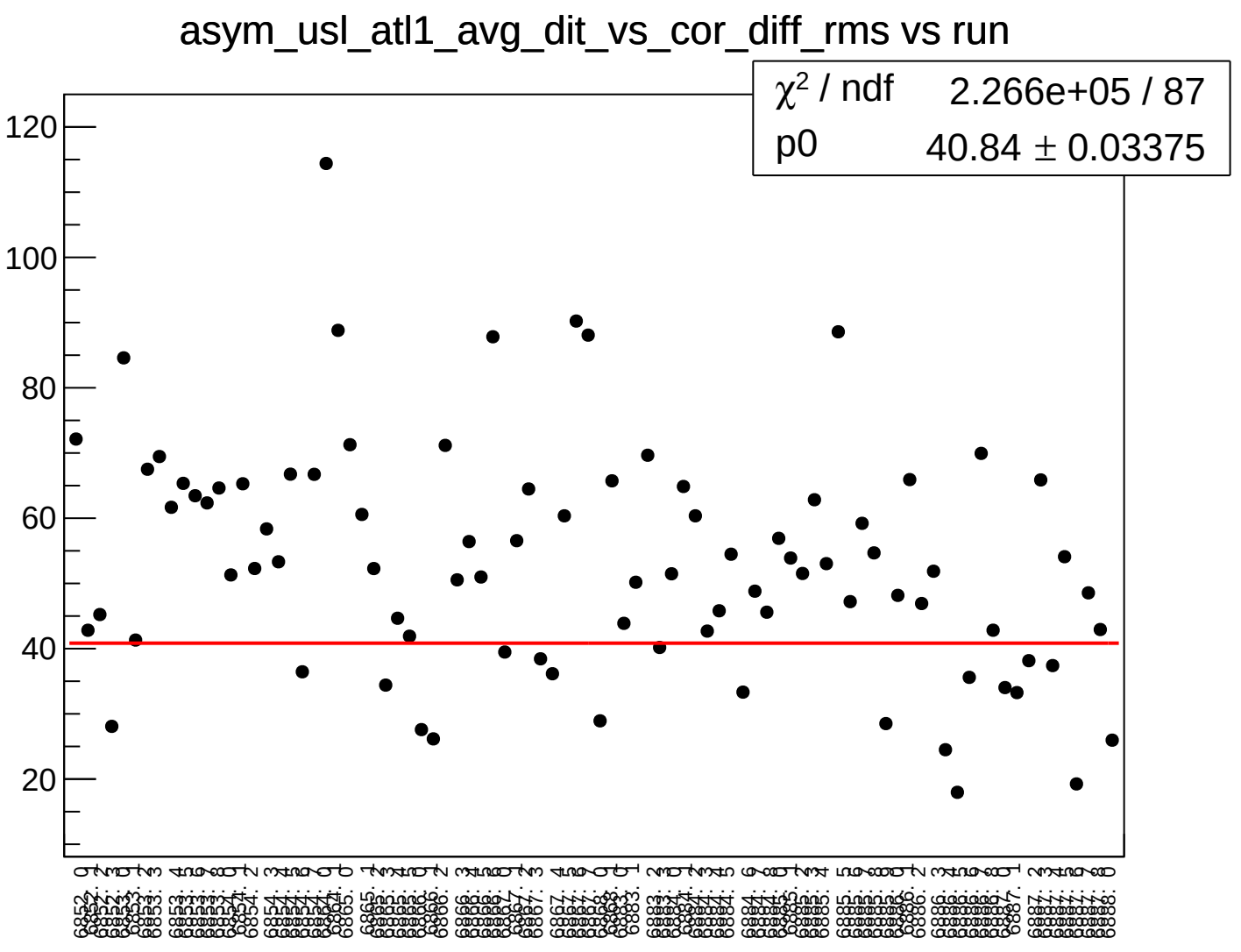

asym_usl_atl1_avg_rms vs run
χ² / ndf 2917 / 87
p0 1744 ± 1.342
1900
1850
1800
1750
1700
1650

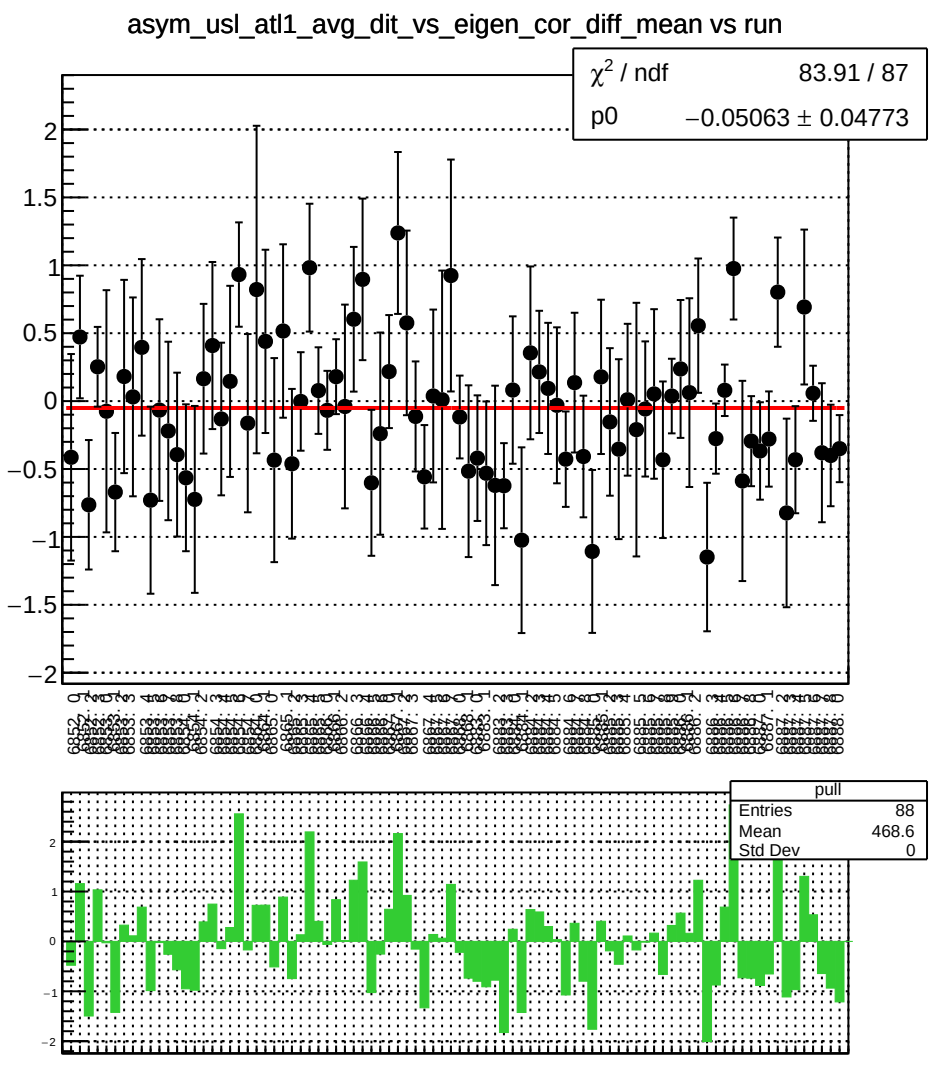

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.16 / 87
p0 2.434e−14 ± 2.665e−14
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 4.993
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.04143
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

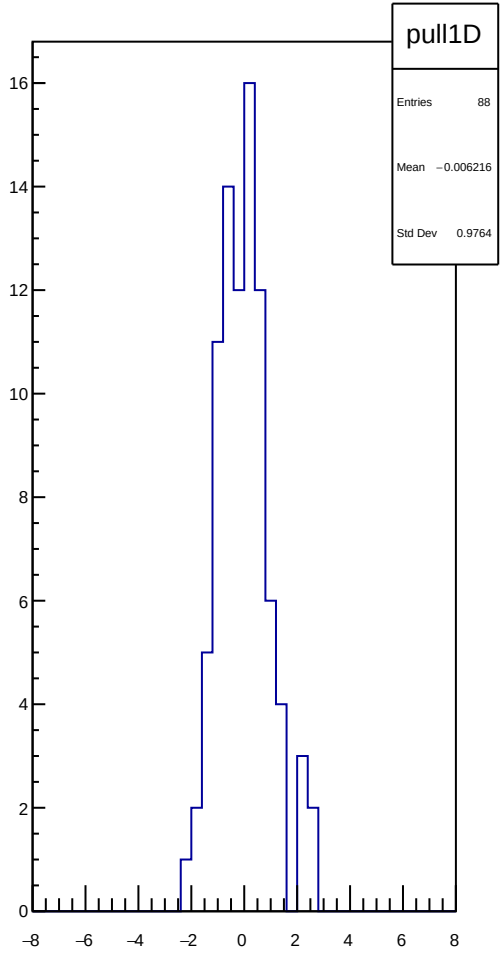

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.807e+05 / 87
p0 1.696e−11 ± 1.885e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

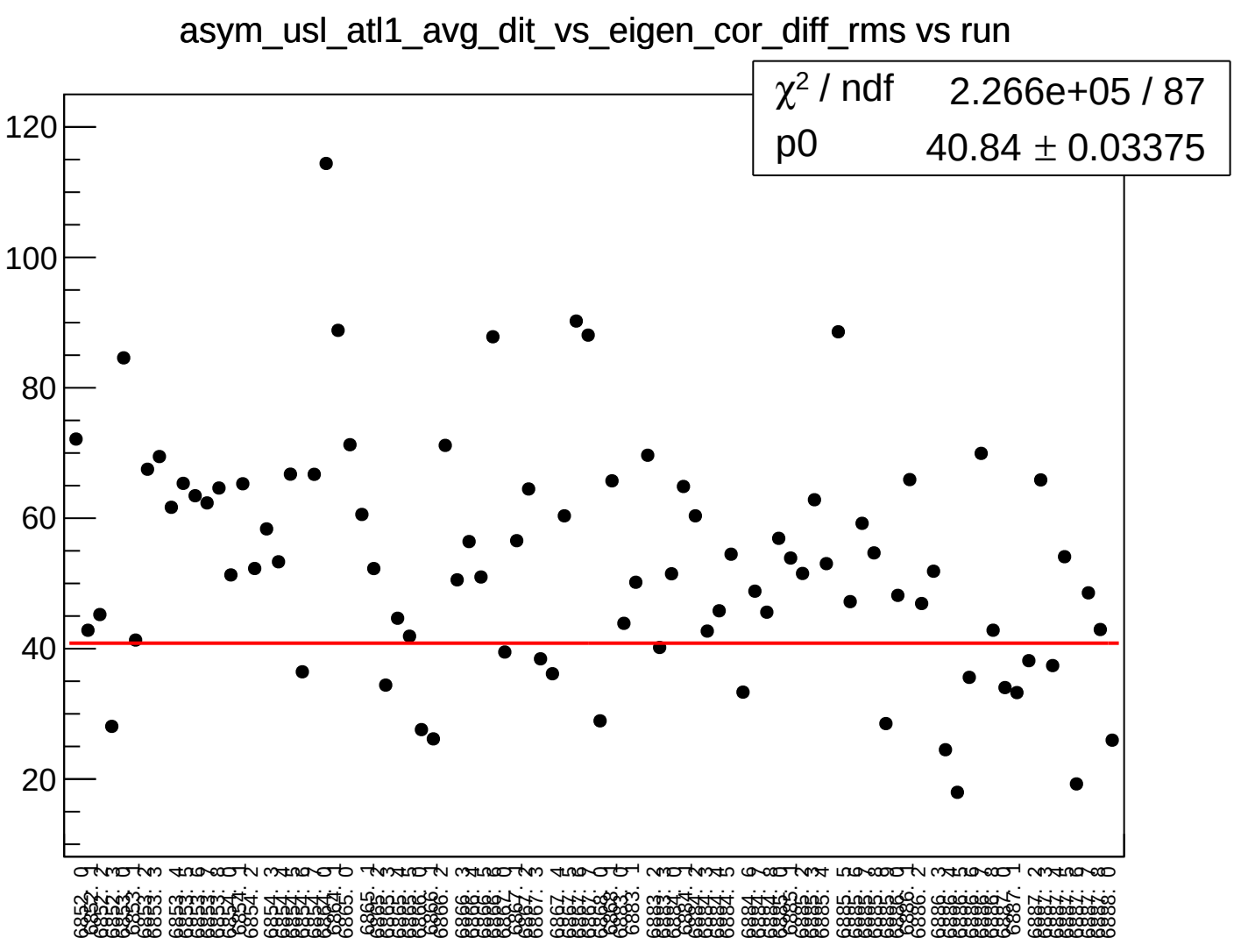

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.91 / 87
p0 −0.05063 ± 0.04773
pull
Entries 88
Mean 468.6
Std Dev 0

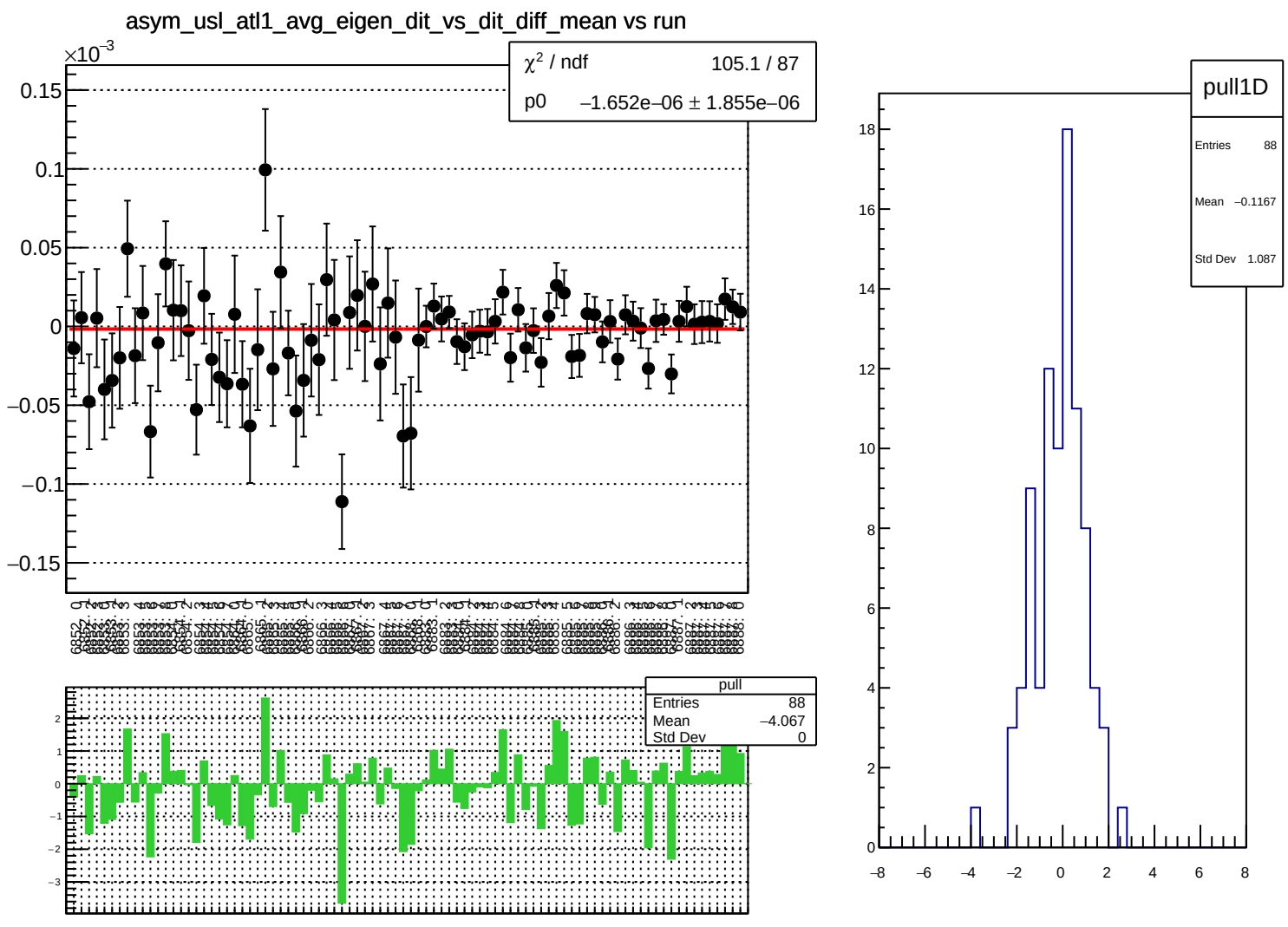

pull1D
Entries 88
Mean −0.006216
Std Dev 0.9764

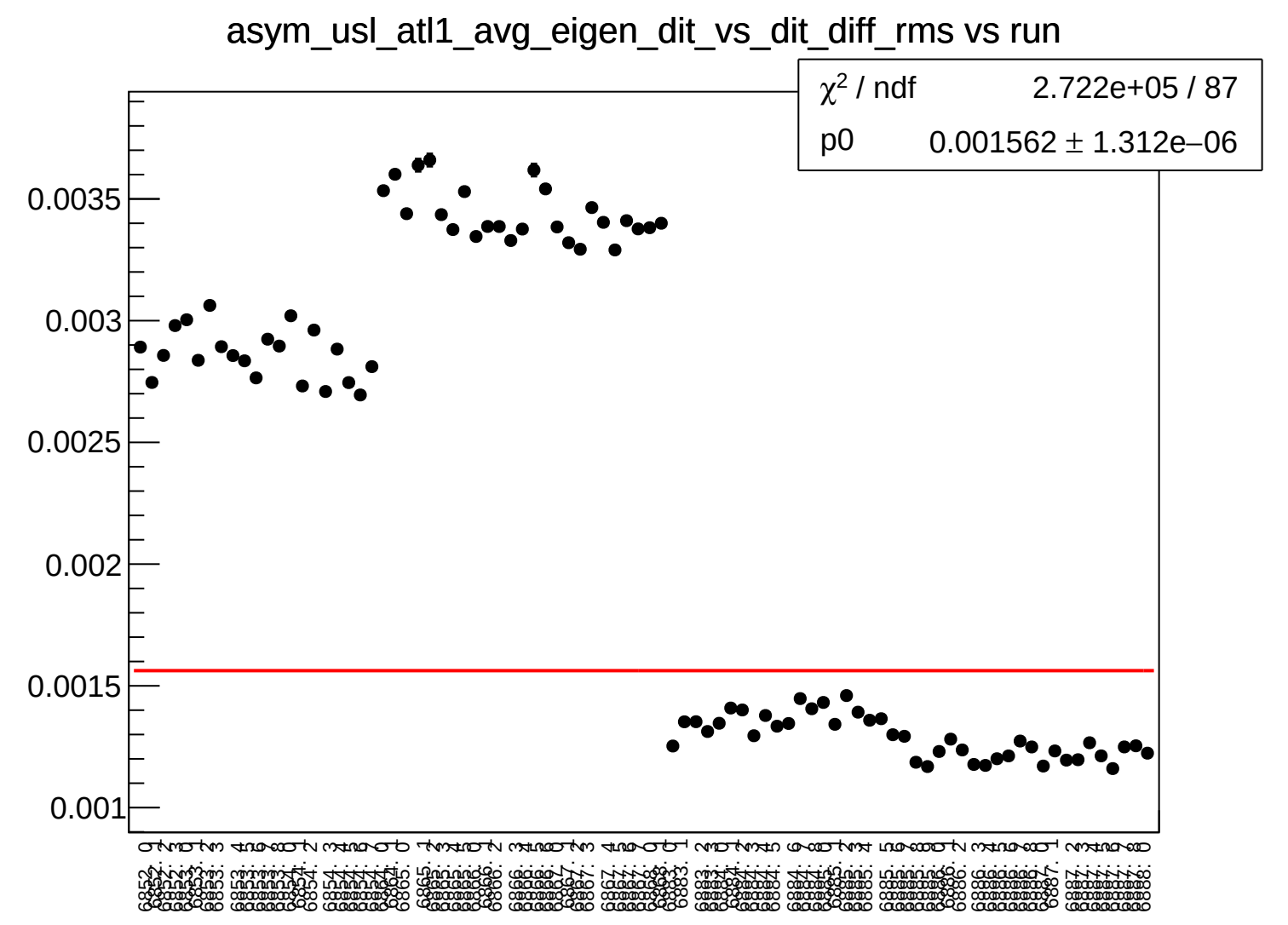

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.266e+05 / 87
p0 40.84 ± 0.03375
120
100
80
60
40
20

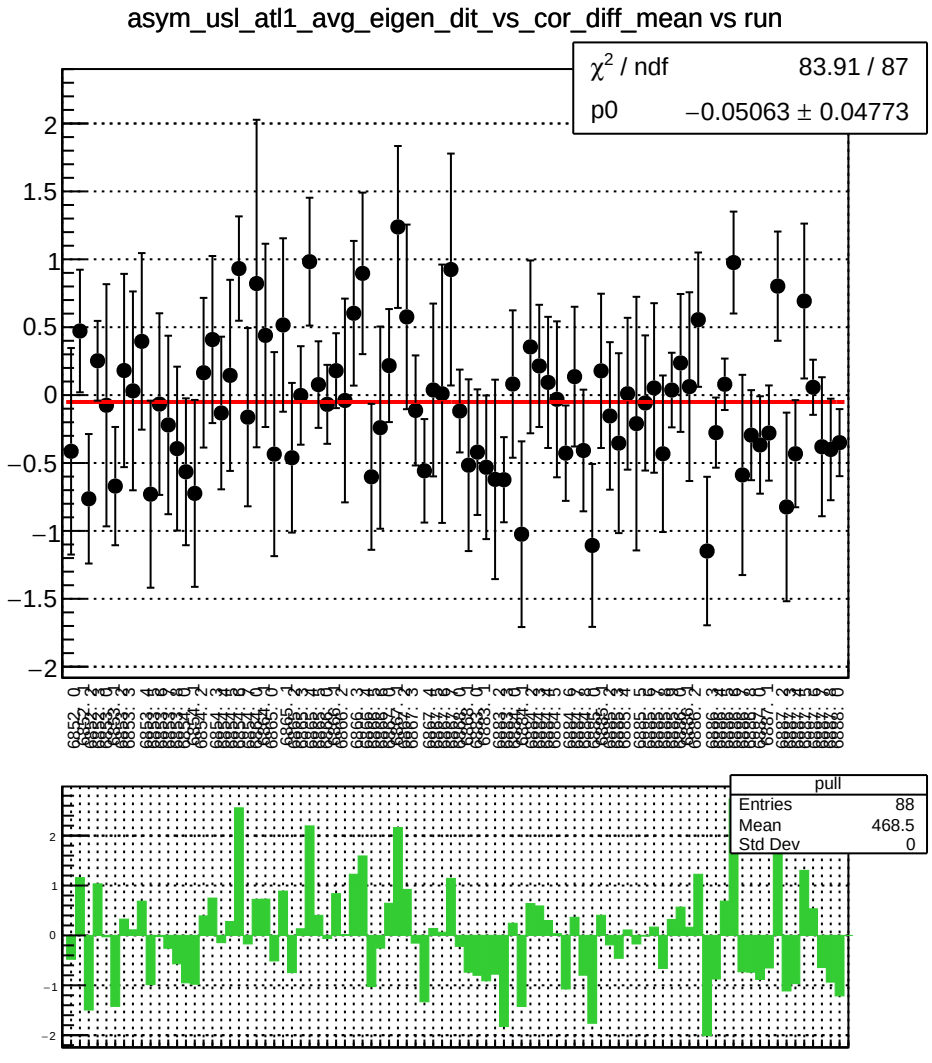

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.91 / 87
p0 −0.05063 ± 0.04773
pull
Entries 88
Mean 468.6
Std Dev 0

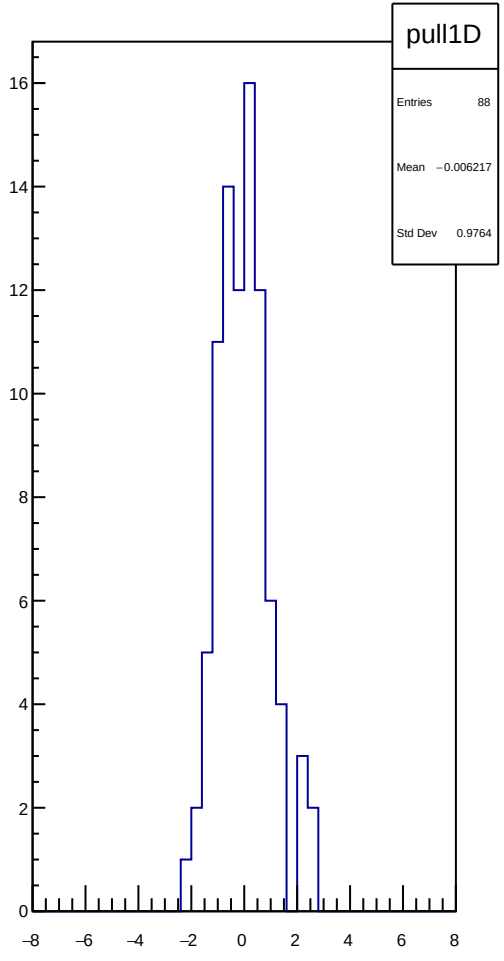

pull1D
Entries 88
Mean −0.006216
Std Dev 0.9764

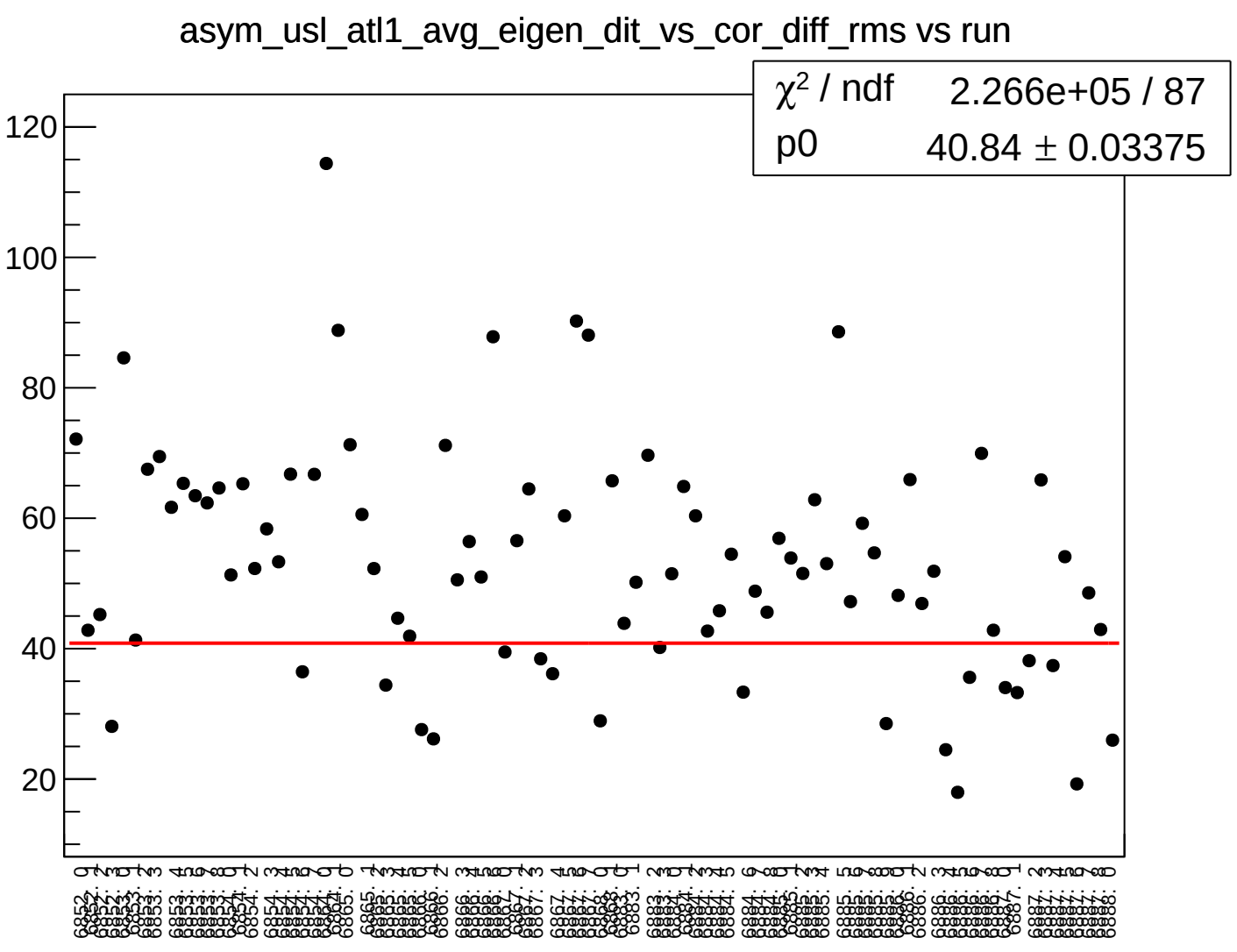

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.266e+05 / 87
p0 40.84 ± 0.03375
120
100
80
60
40
20

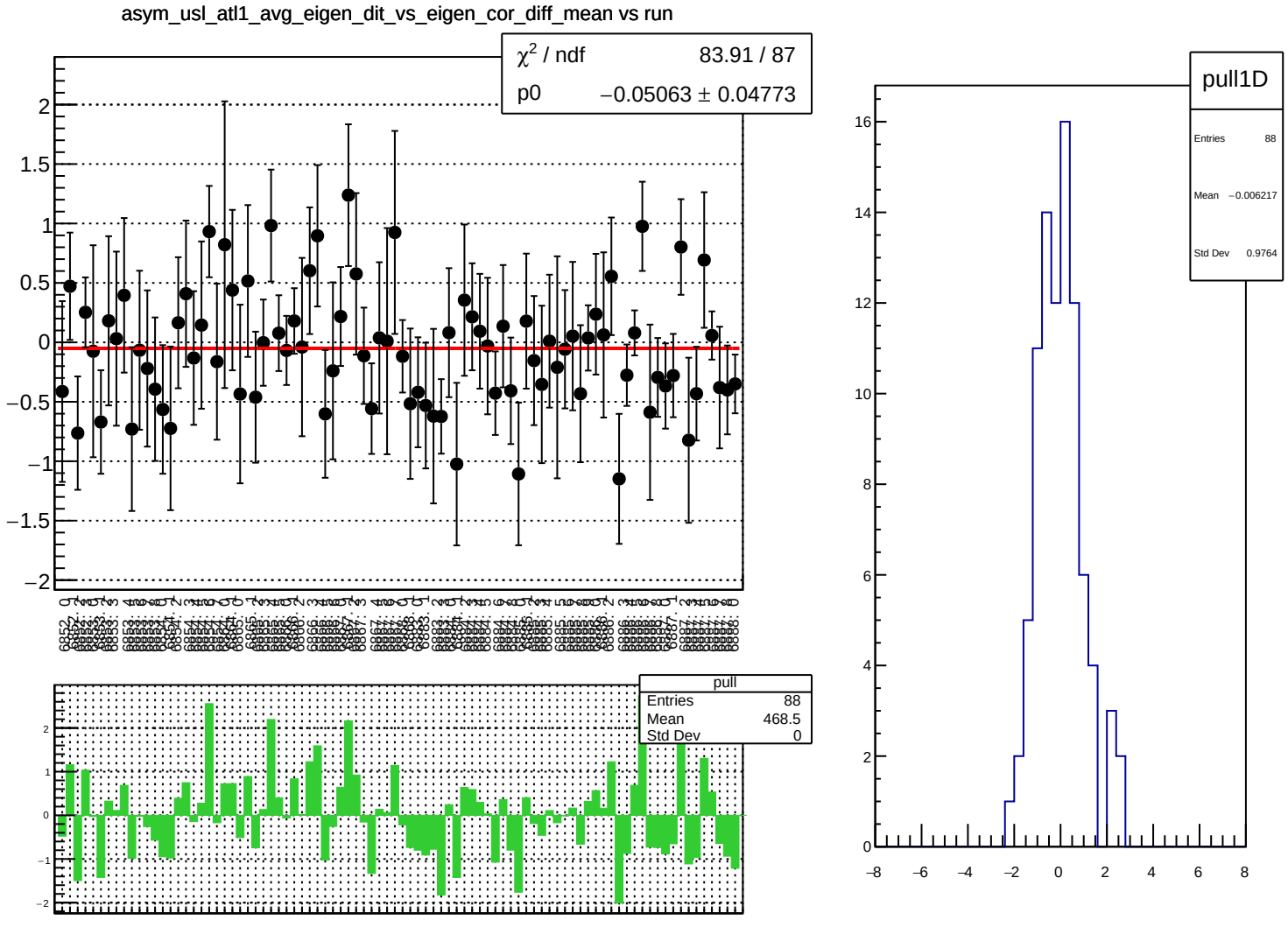

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.1 / 87
p0 −1.652e−06 ± 1.855e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean −4.067
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.1167
Std Dev 1.087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

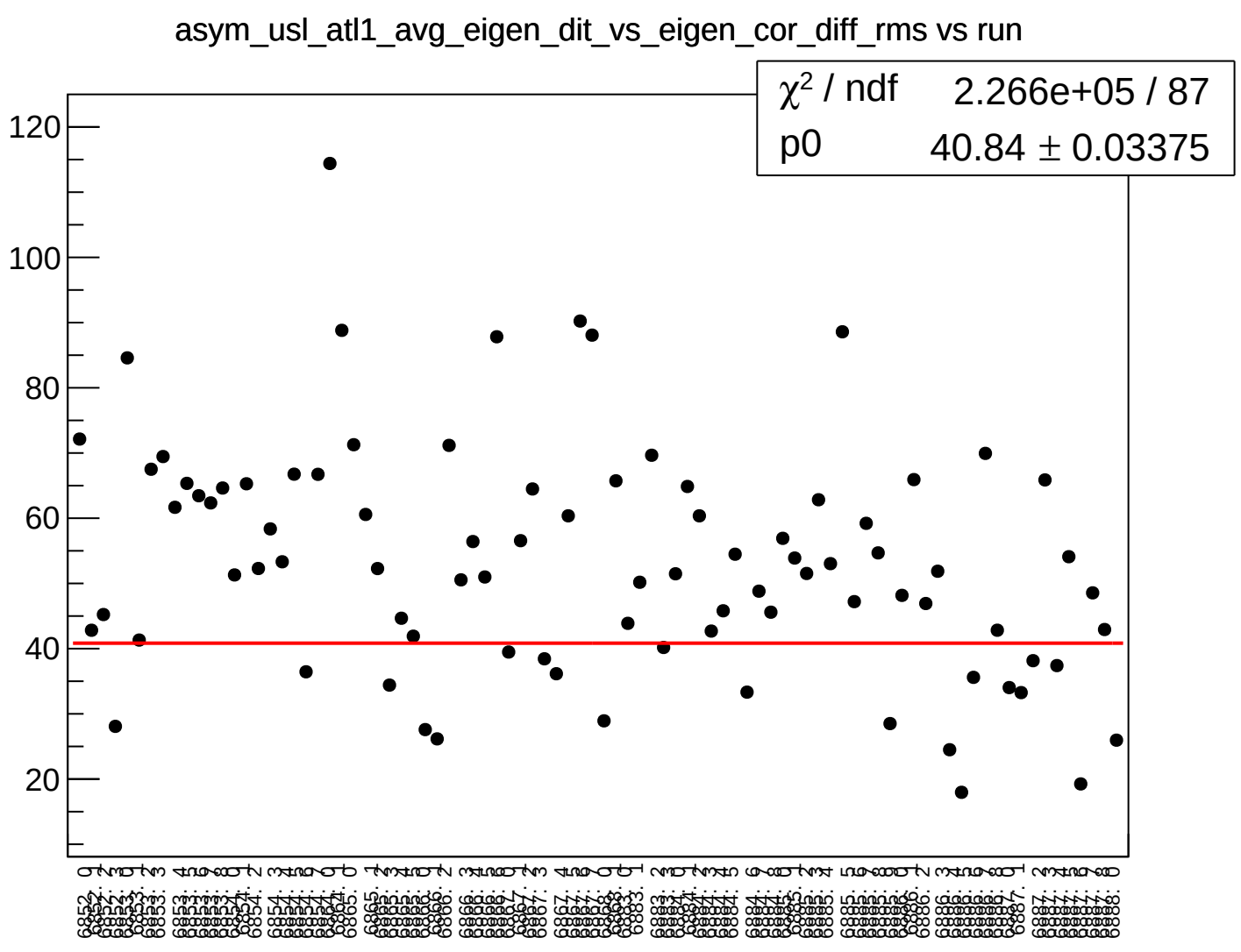

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.722e+05 / 87
p0 0.001562 ± 1.312e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

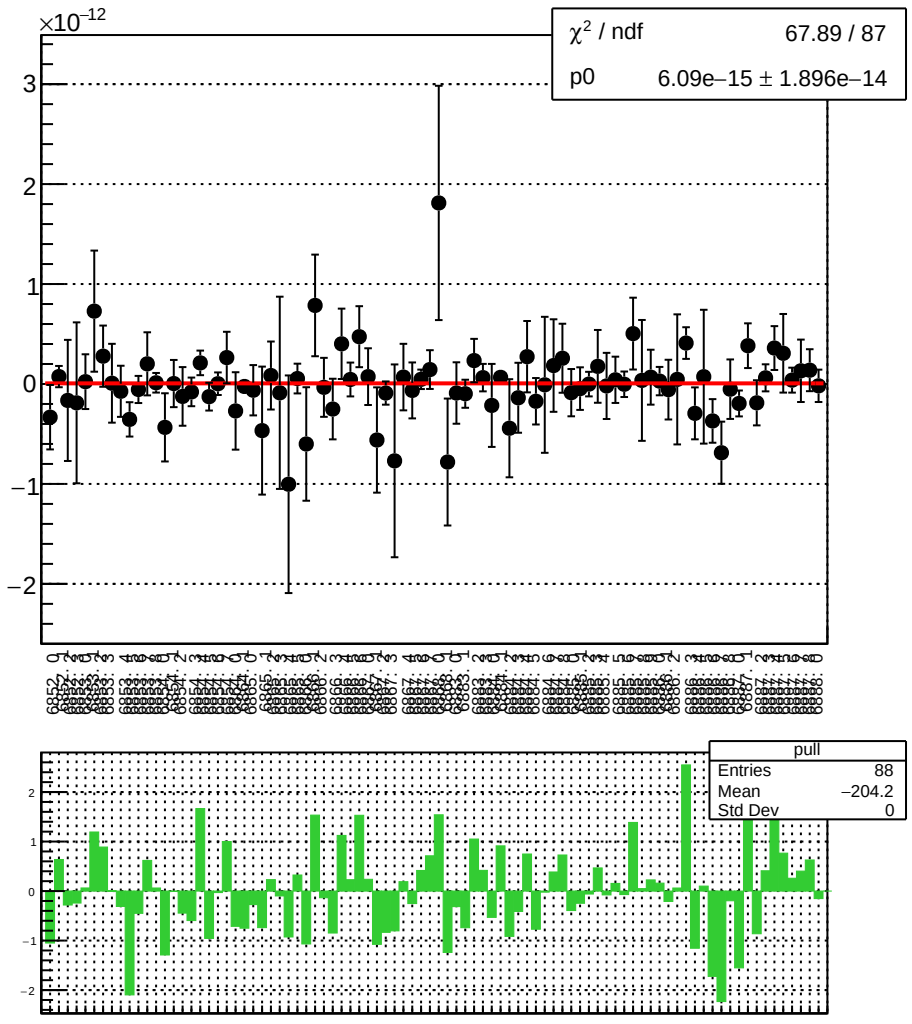

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.91 / 87
p0 −0.05063 ± 0.04773
pull
Entries 88
Mean 468.5
Std Dev 0

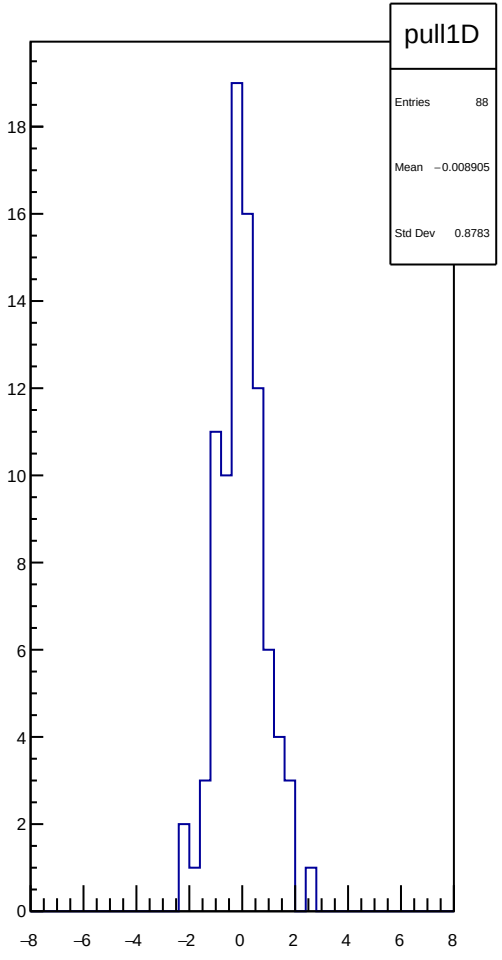

pull1D
Entries 88
Mean −0.006217
Std Dev 0.9764

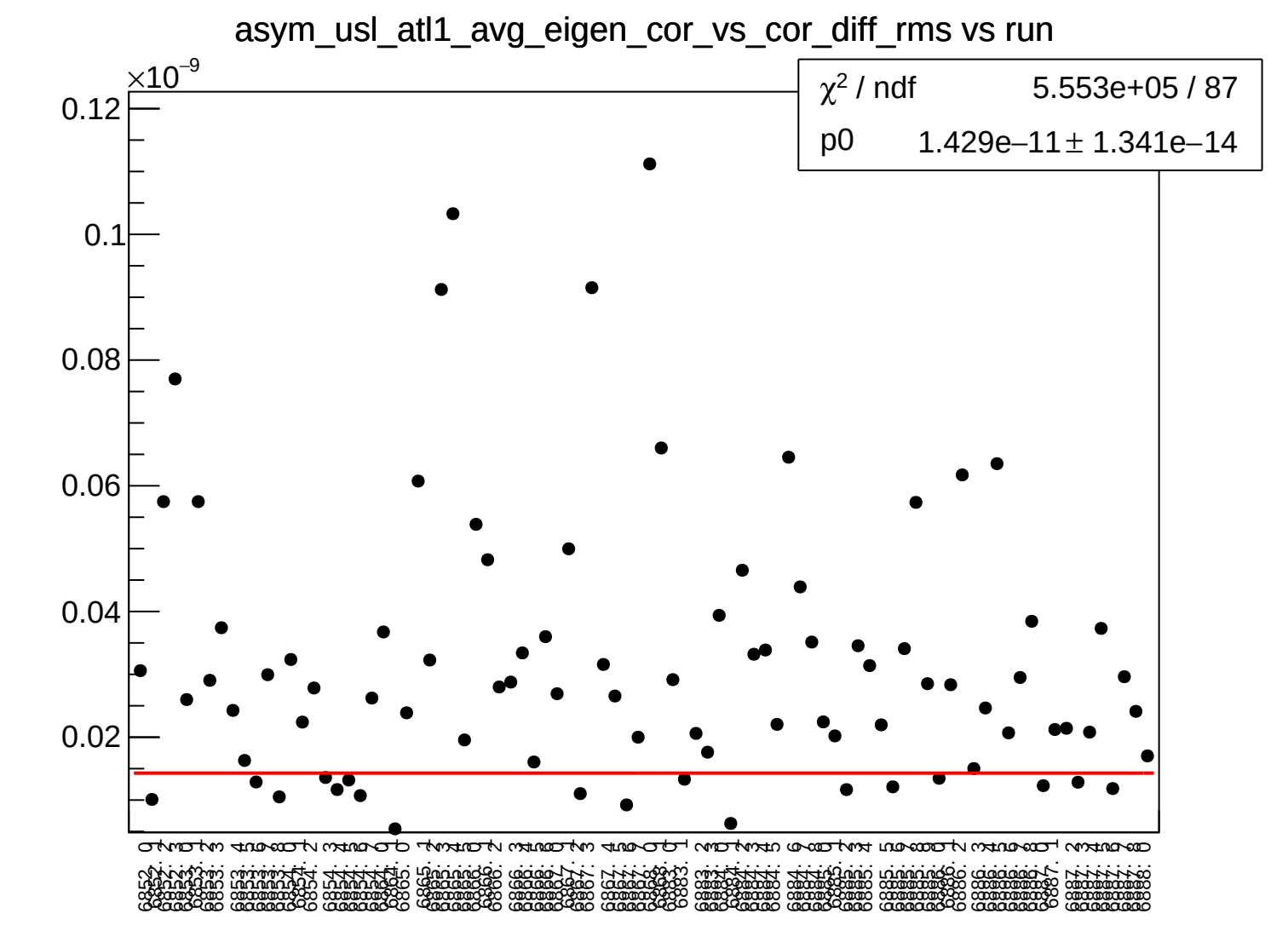

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.266e+05 / 87
p0 40.84 ± 0.03375
120
100
80
60
40
20

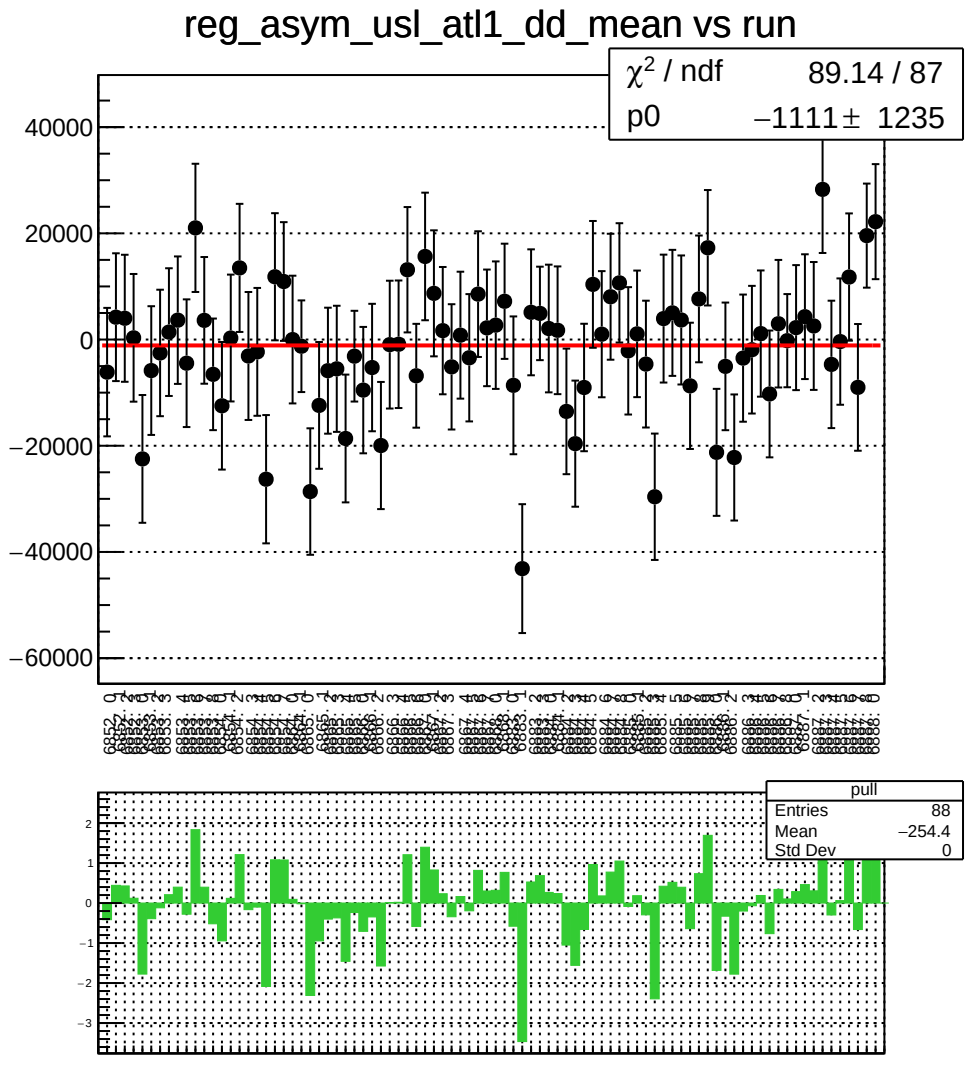

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.91 / 87
p0 −0.05063 ± 0.04773
pull
Entries 88
Mean 468.5
Std Dev 0
pull1D
Entries 88
Mean −0.006217
Std Dev 0.9764

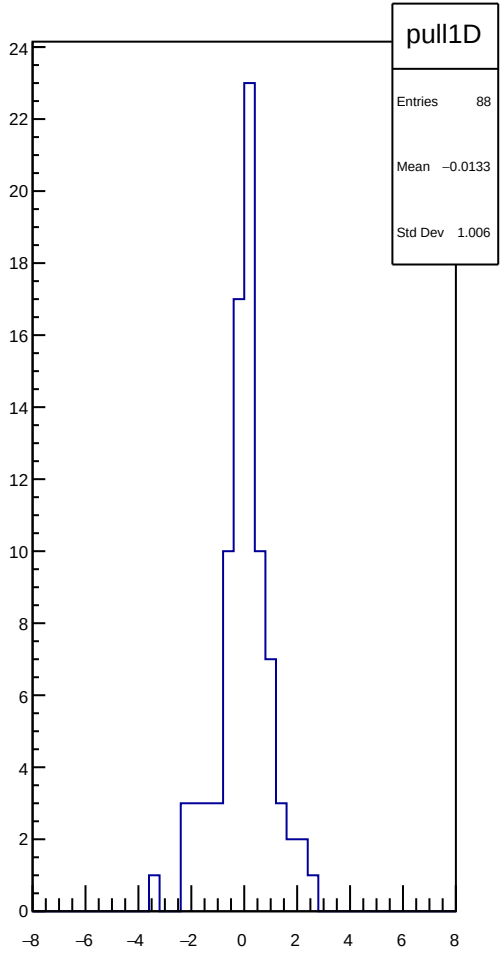

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.266e+05 / 87
p0 40.84 ± 0.03375
120
100
80
60
40
20

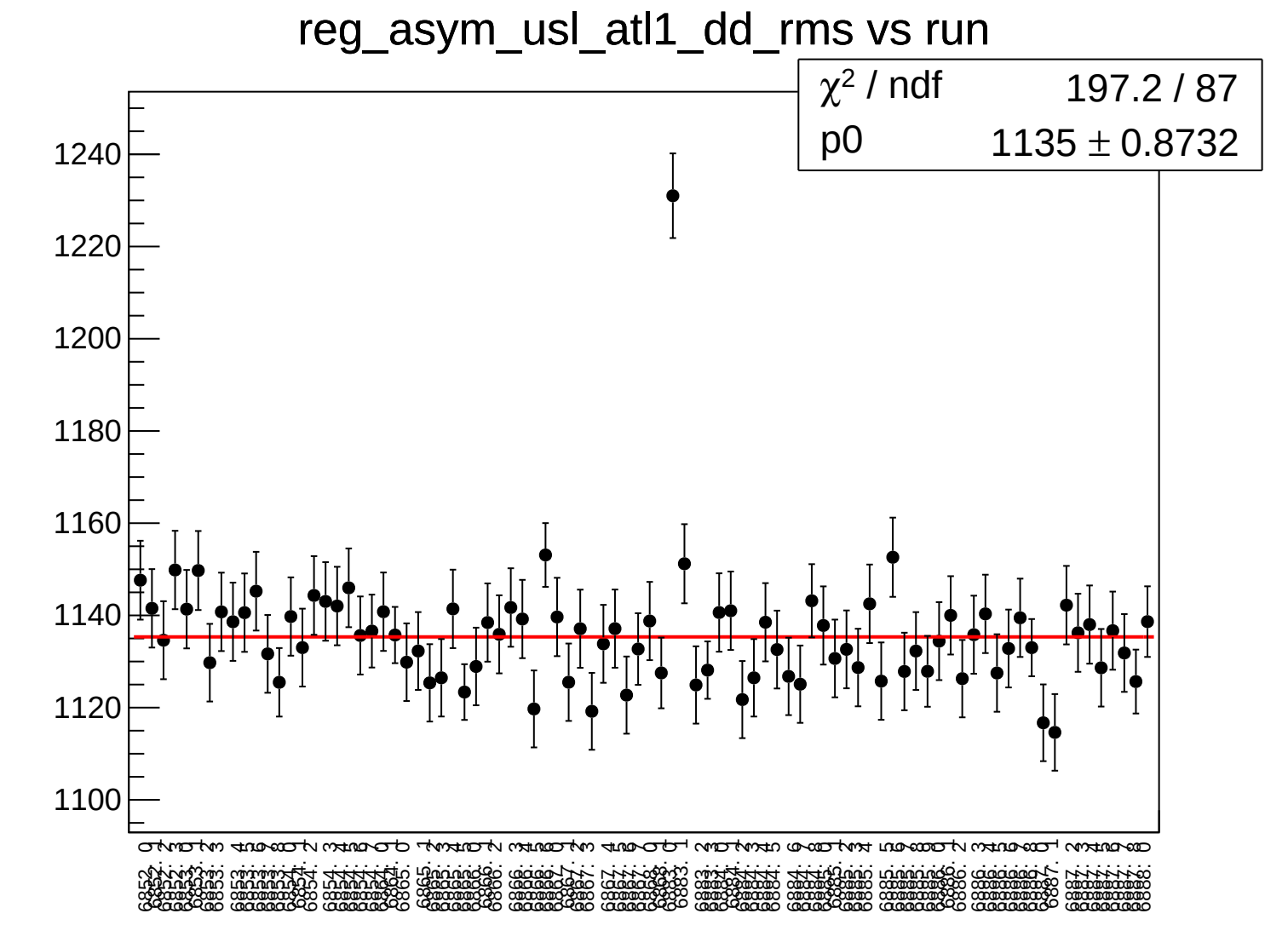

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.89 / 87
p0 6.09e−15 ± 1.896e−14
pull
Entries 88
Mean −204.2
Std Dev 0

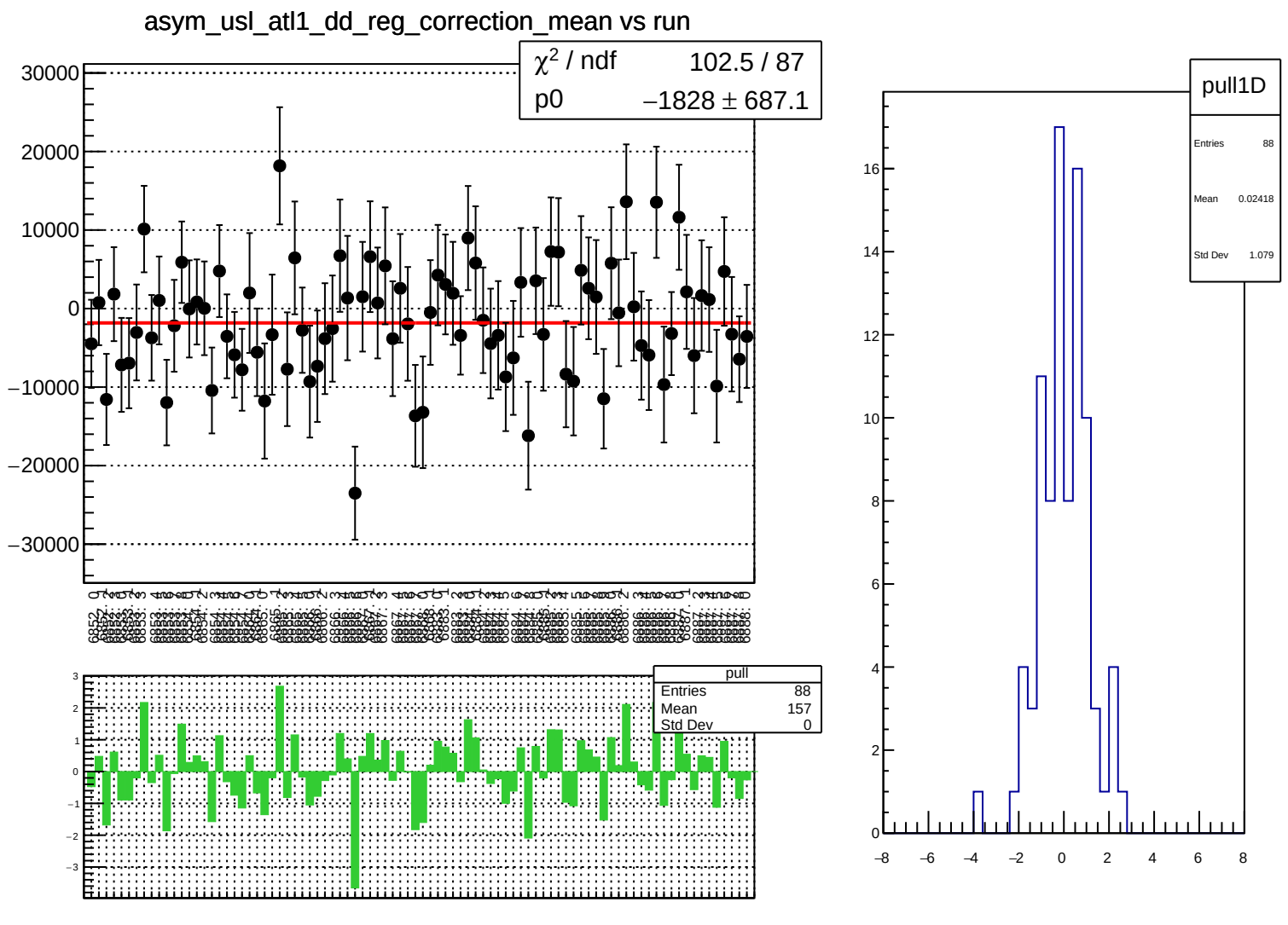

pull1D
Entries 88
Mean −0.008905
Std Dev 0.8783

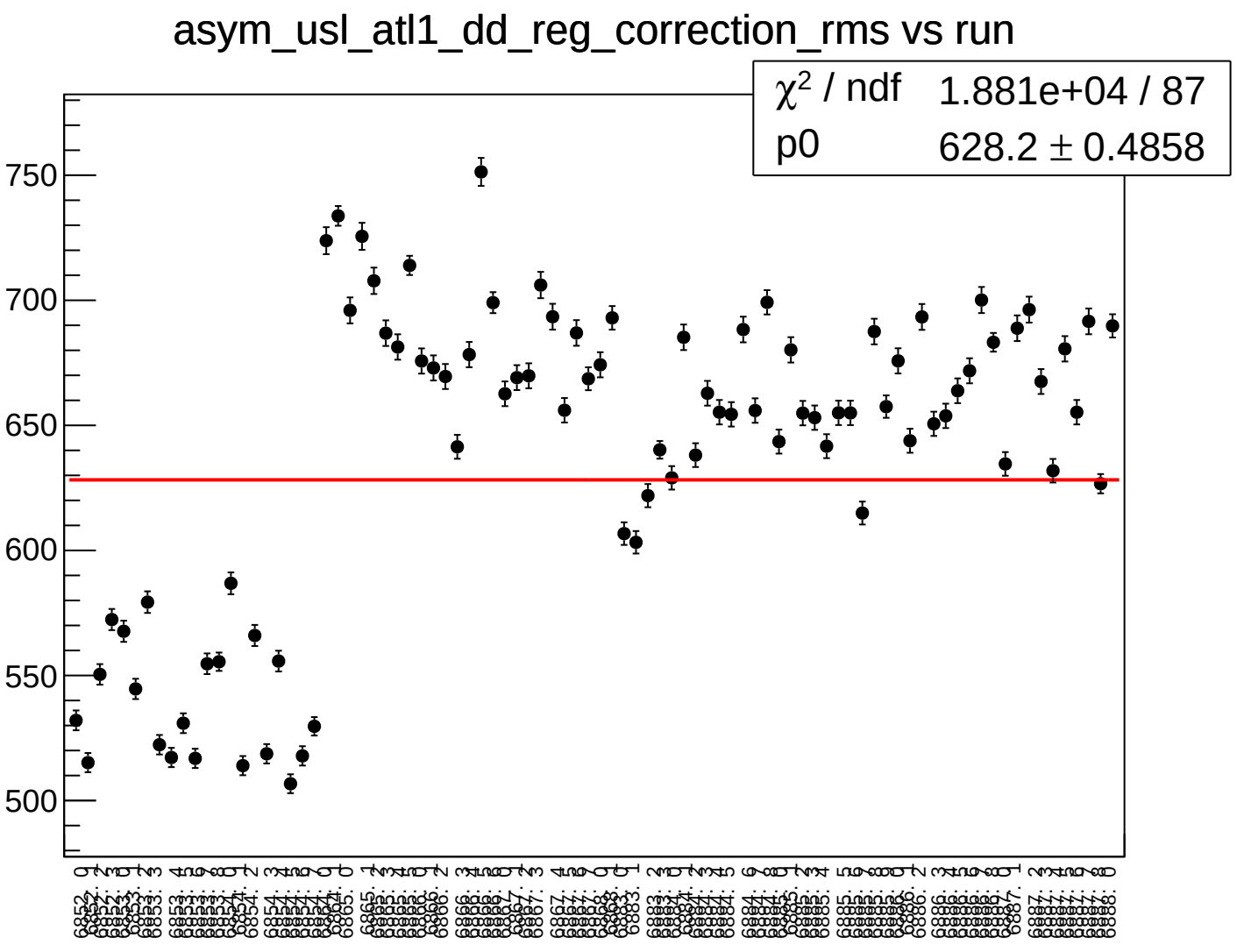

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.553e+05 / 87
p0 1.429e−11 ± 1.341e−14
0.12
0.1
0.08
0.06
0.04
0.02

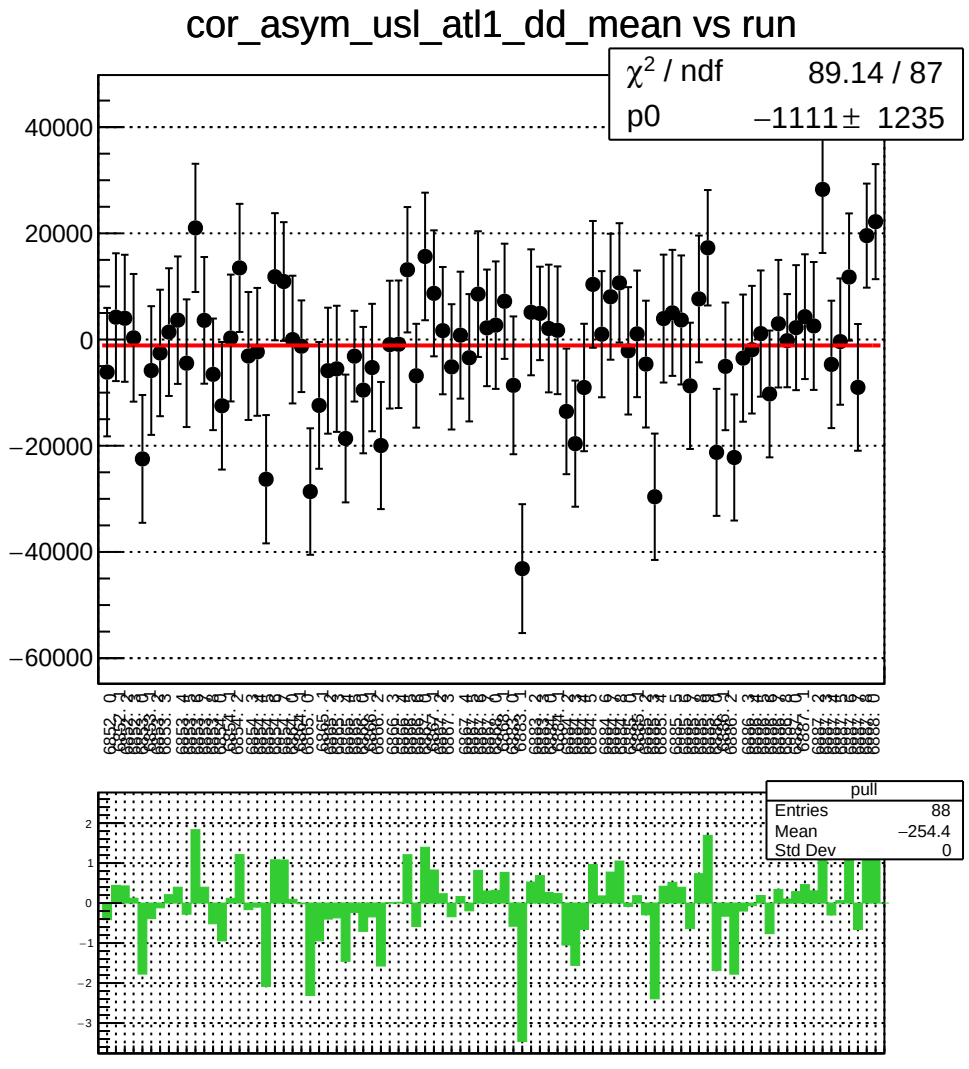

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 89.14 / 87
p0 −1111 ± 1235
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −254.4
Std Dev 0
2
1
0
−1
−2
−3

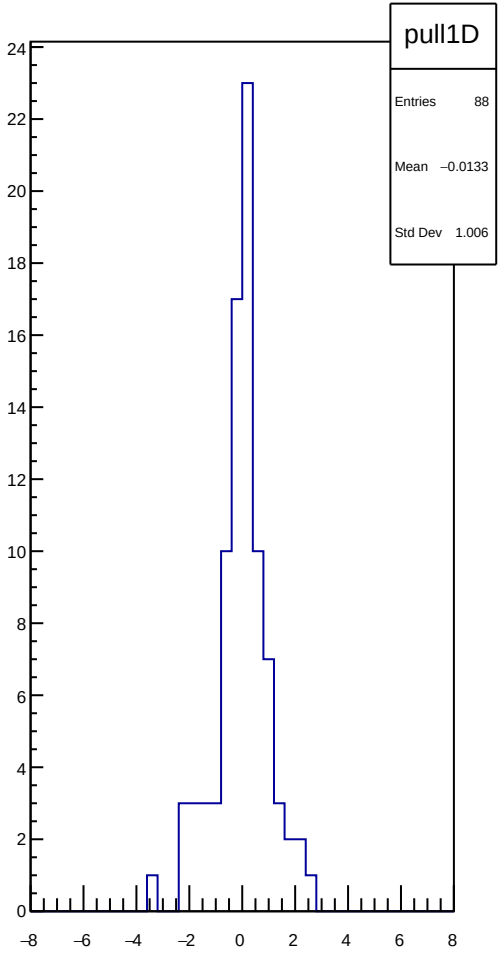

pull1D
Entries 88
Mean −0.0133
Std Dev 1.006
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

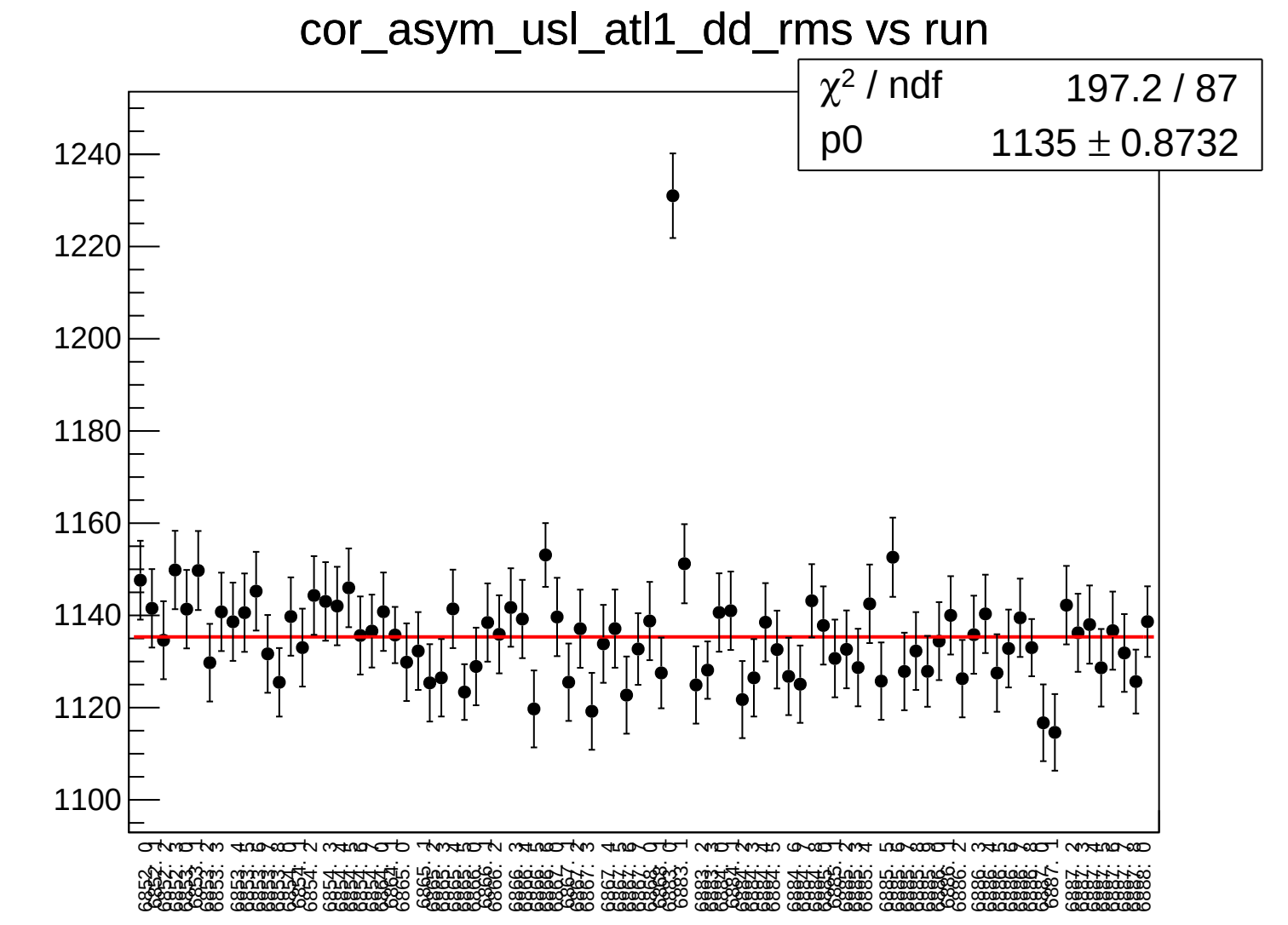

reg_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 197.2 / 87
p0 1135 ± 0.8732
1240
1220
1200
1180
1160
1140
1120
1100

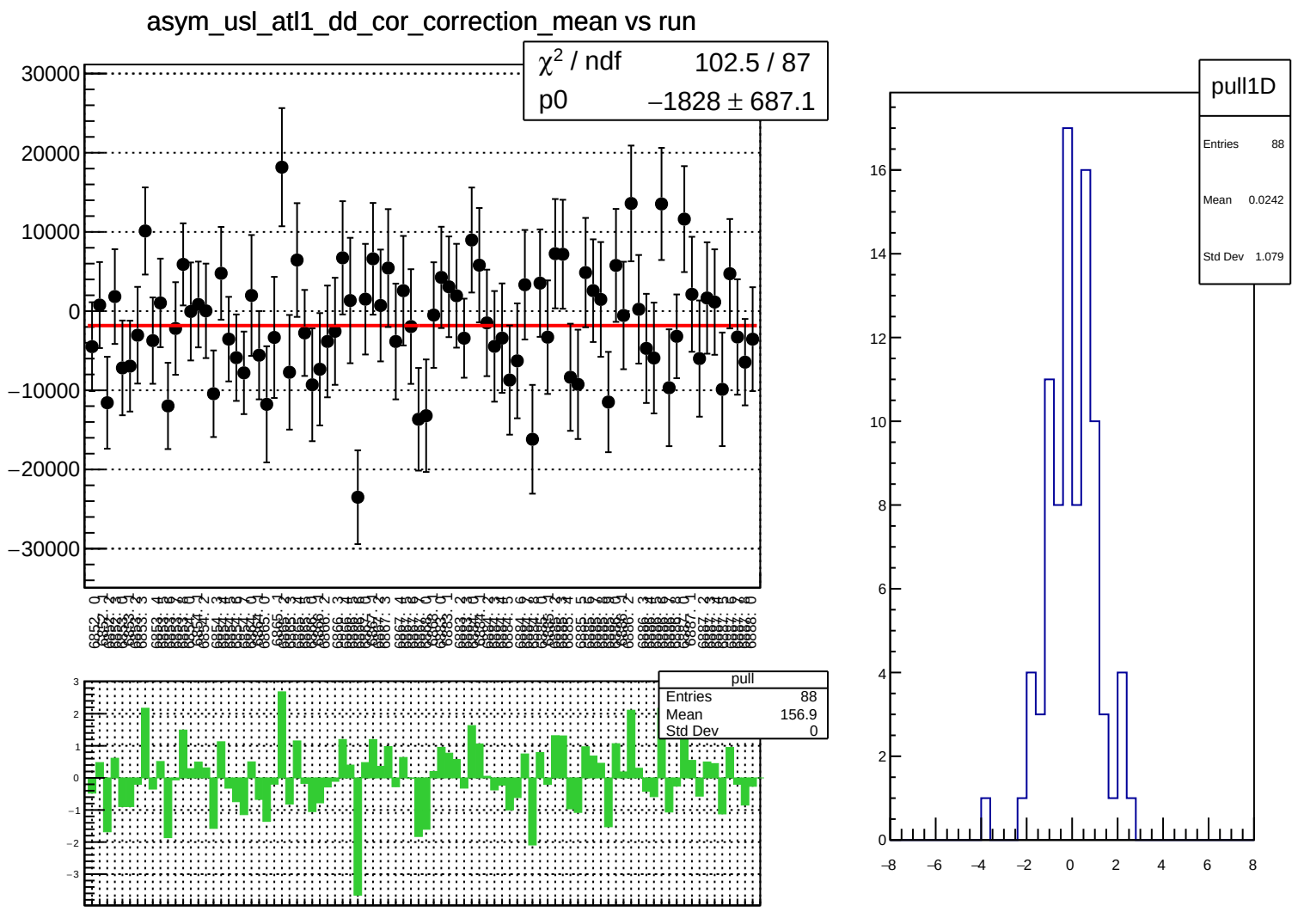

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 102.5 / 87
p0 −1828 ± 687.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 157
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.02418
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

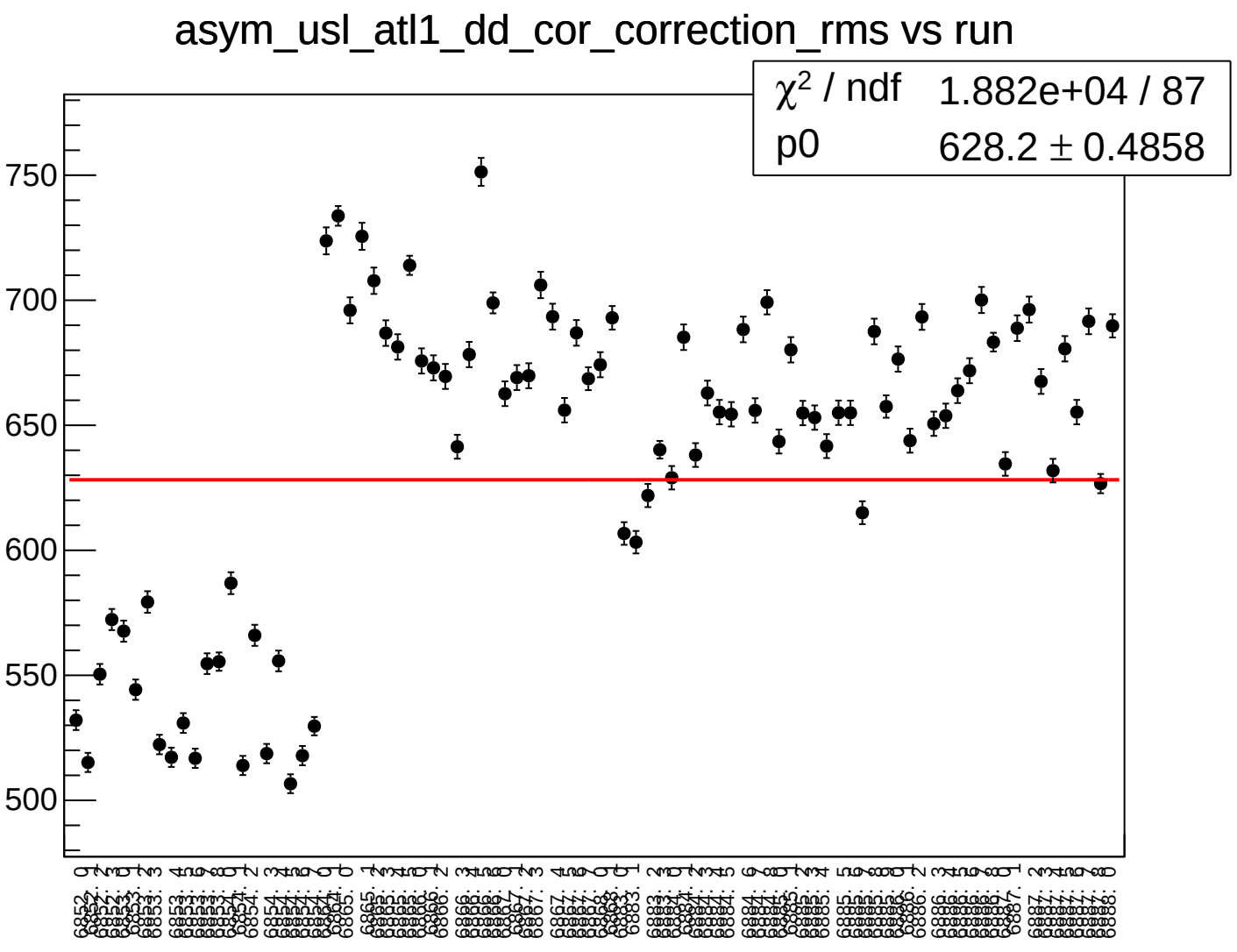

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.881e+04 / 87
p0 628.2 ± 0.4858
750
700
650
600
550
500

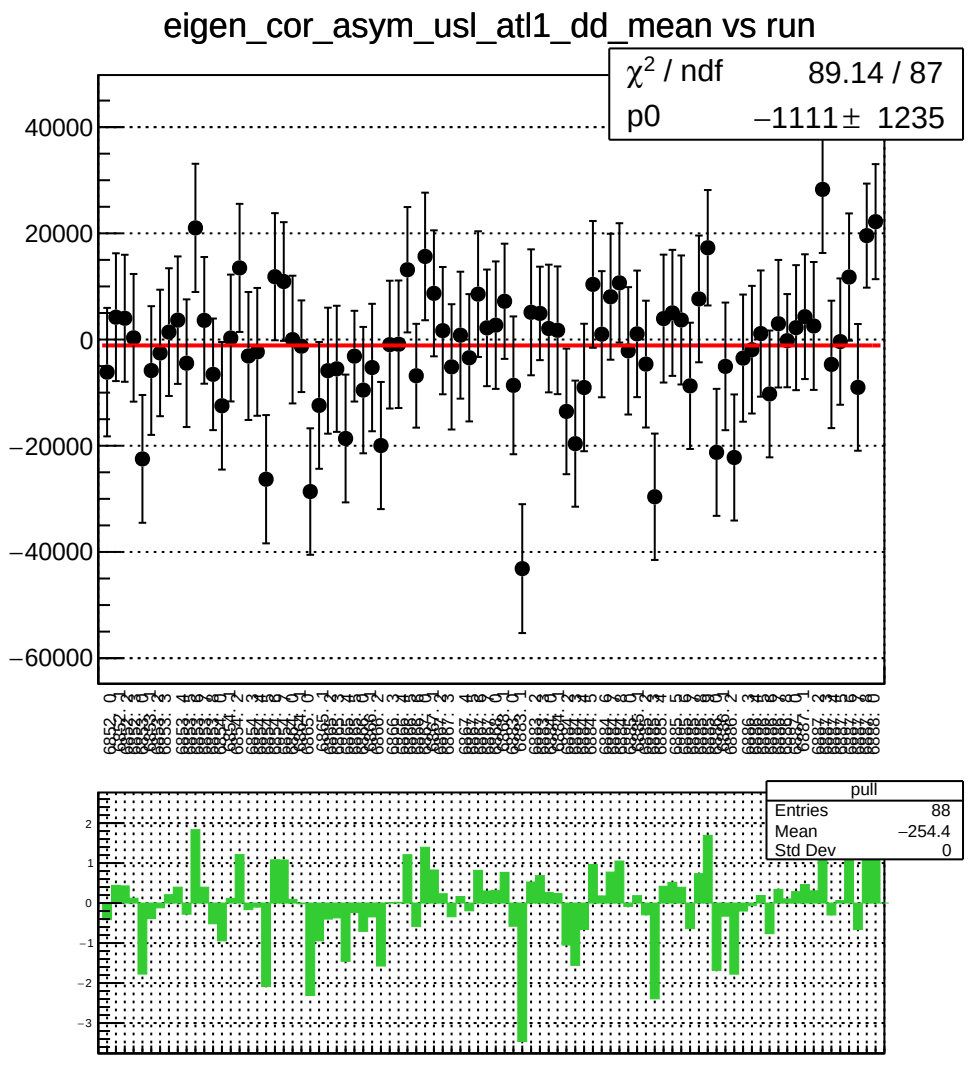

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 89.14 / 87
p0 −1111 ± 1235
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −254.4
Std Dev 0
2
1
0
−1
−2
−3

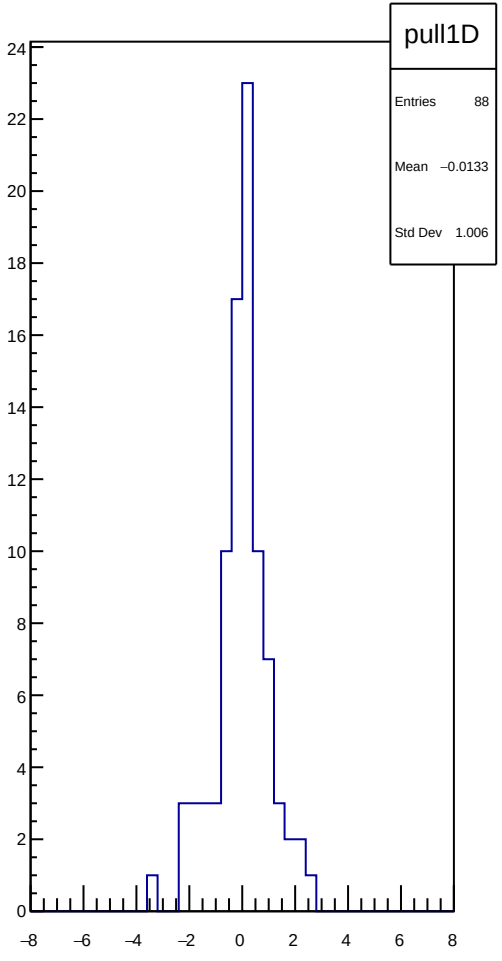

pull1D
Entries 88
Mean −0.0133
Std Dev 1.006
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

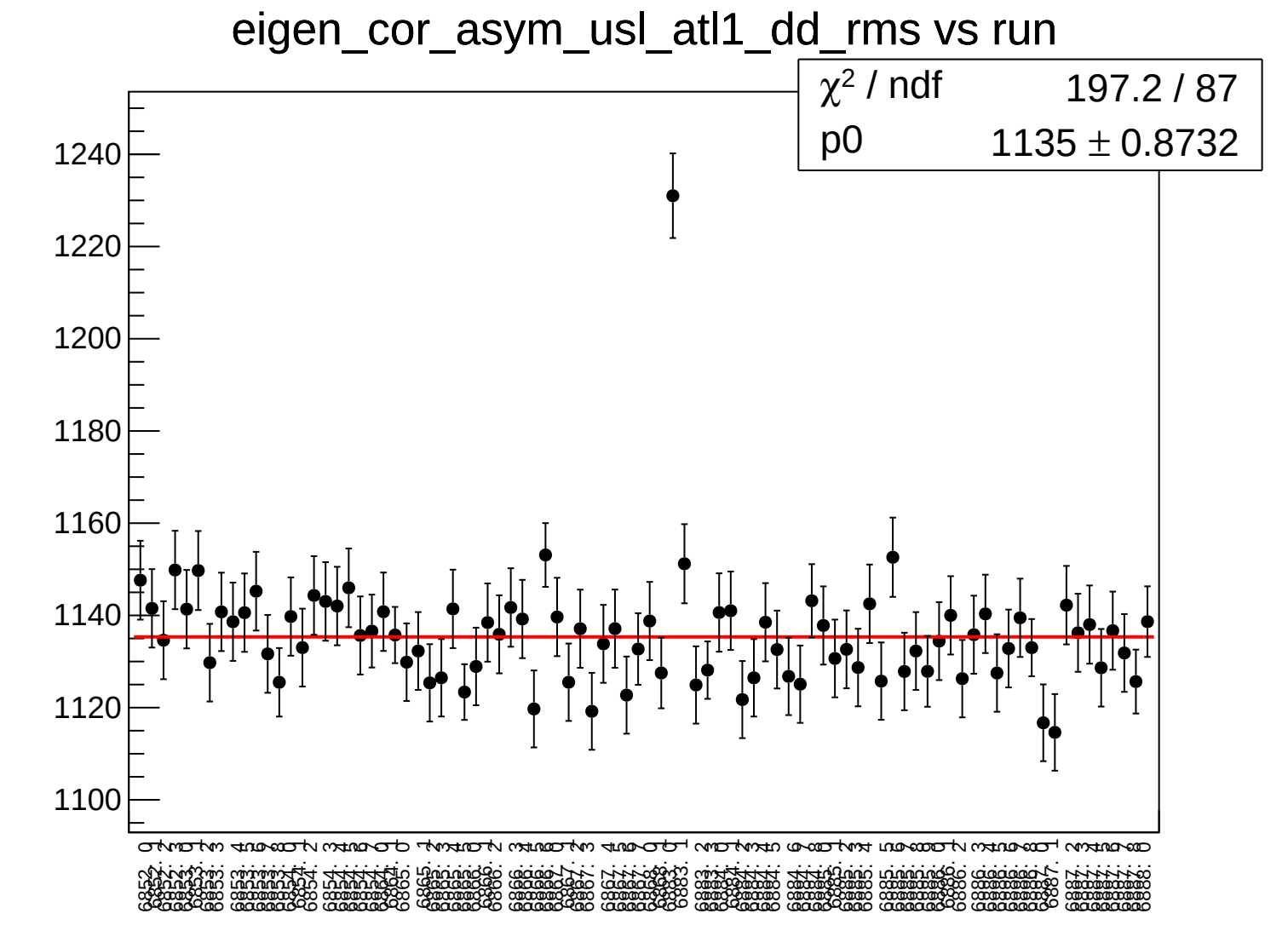

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 197.2 / 87
p0 1135 ± 0.8732
1240
1220
1200
1180
1160
1140
1120
1100

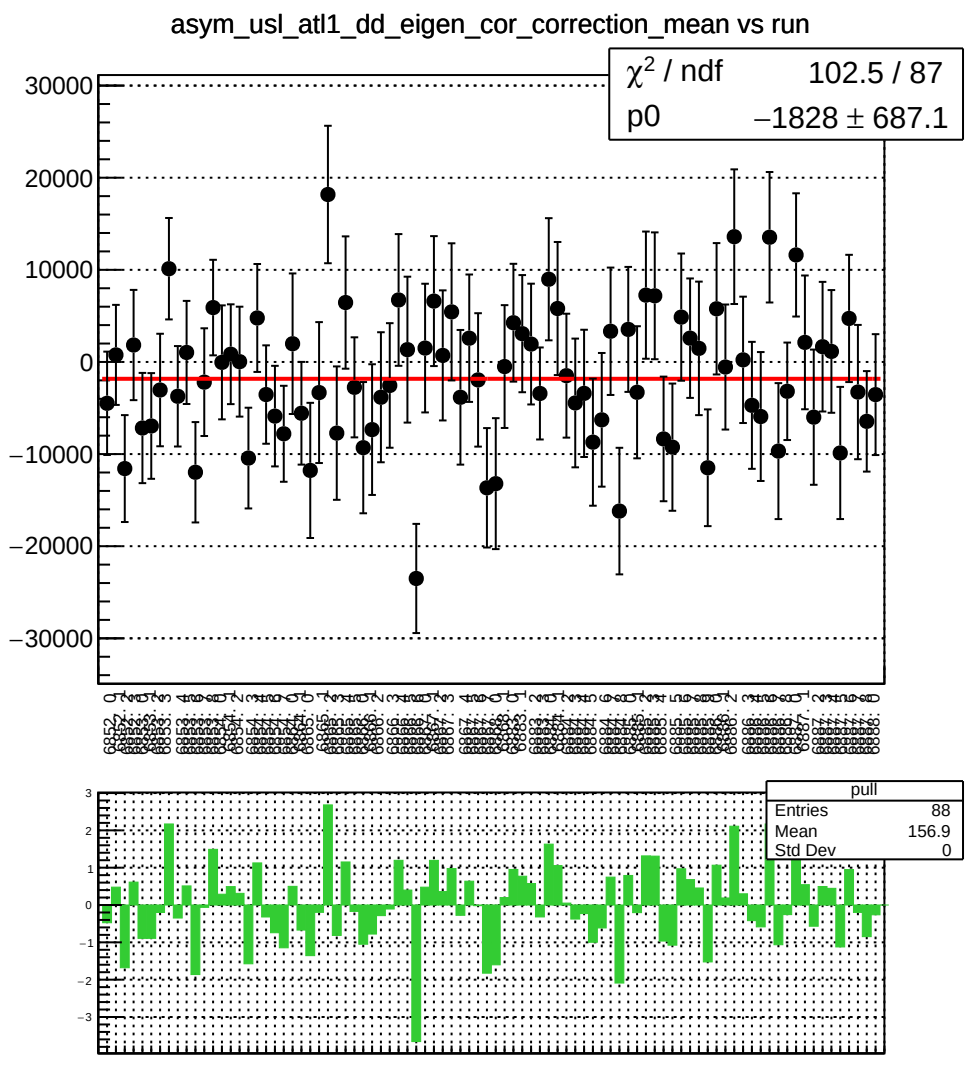

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 102.5 / 87
p0 −1828 ± 687.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 156.9
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0242
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

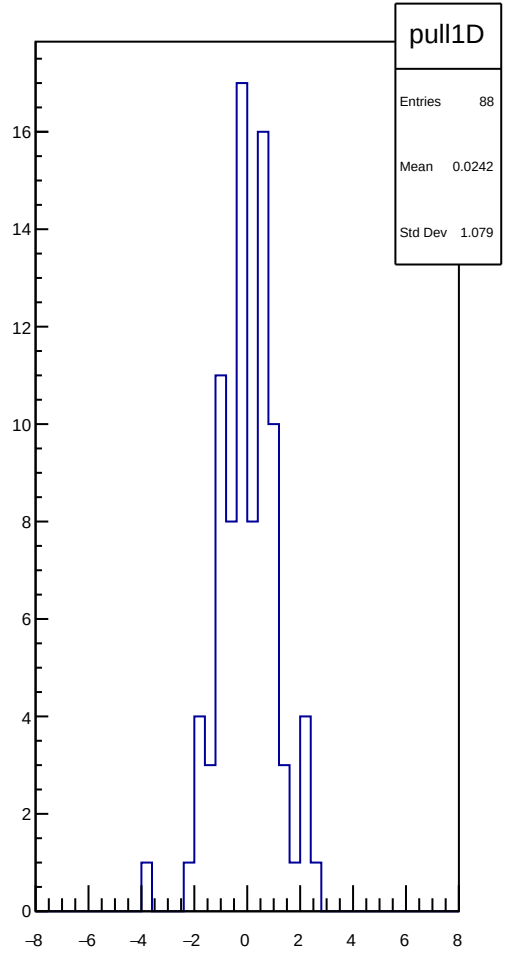

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.882e+04 / 87
p0 628.2 ± 0.4858
750
700
650
600
550
500

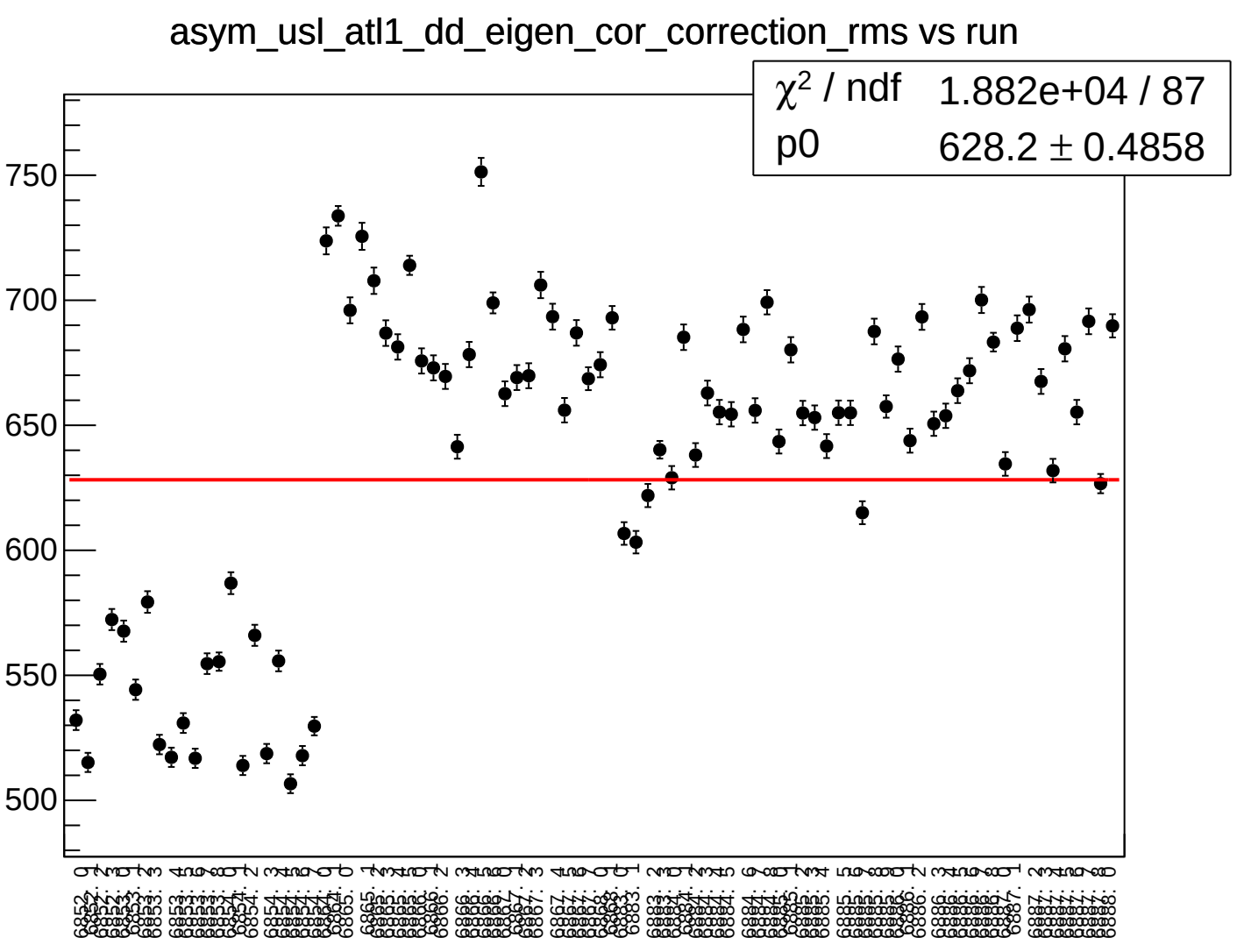

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 89.14 / 87
p0 −1111 ± 1235
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −254.4
Std Dev 0
2
1
0
−1
−2
−3

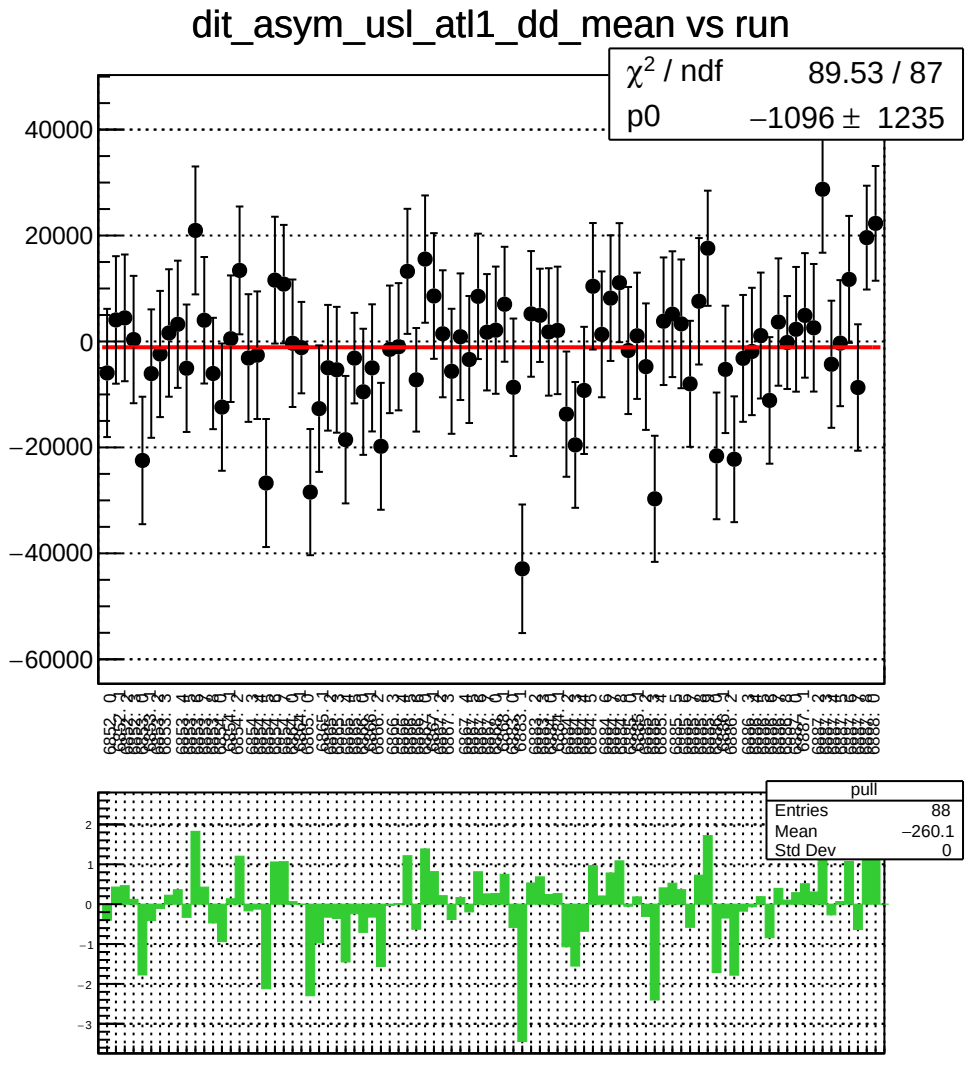

pull1D
Entries 88
Mean −0.0133
Std Dev 1.006
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

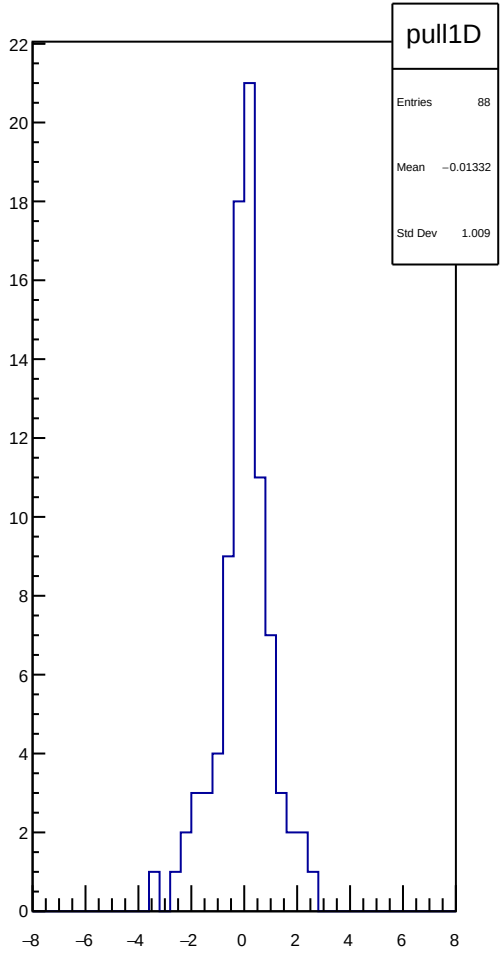

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 197.2 / 87
p0 1135 ± 0.8732
1240
1220
1200
1180
1160
1140
1120
1100

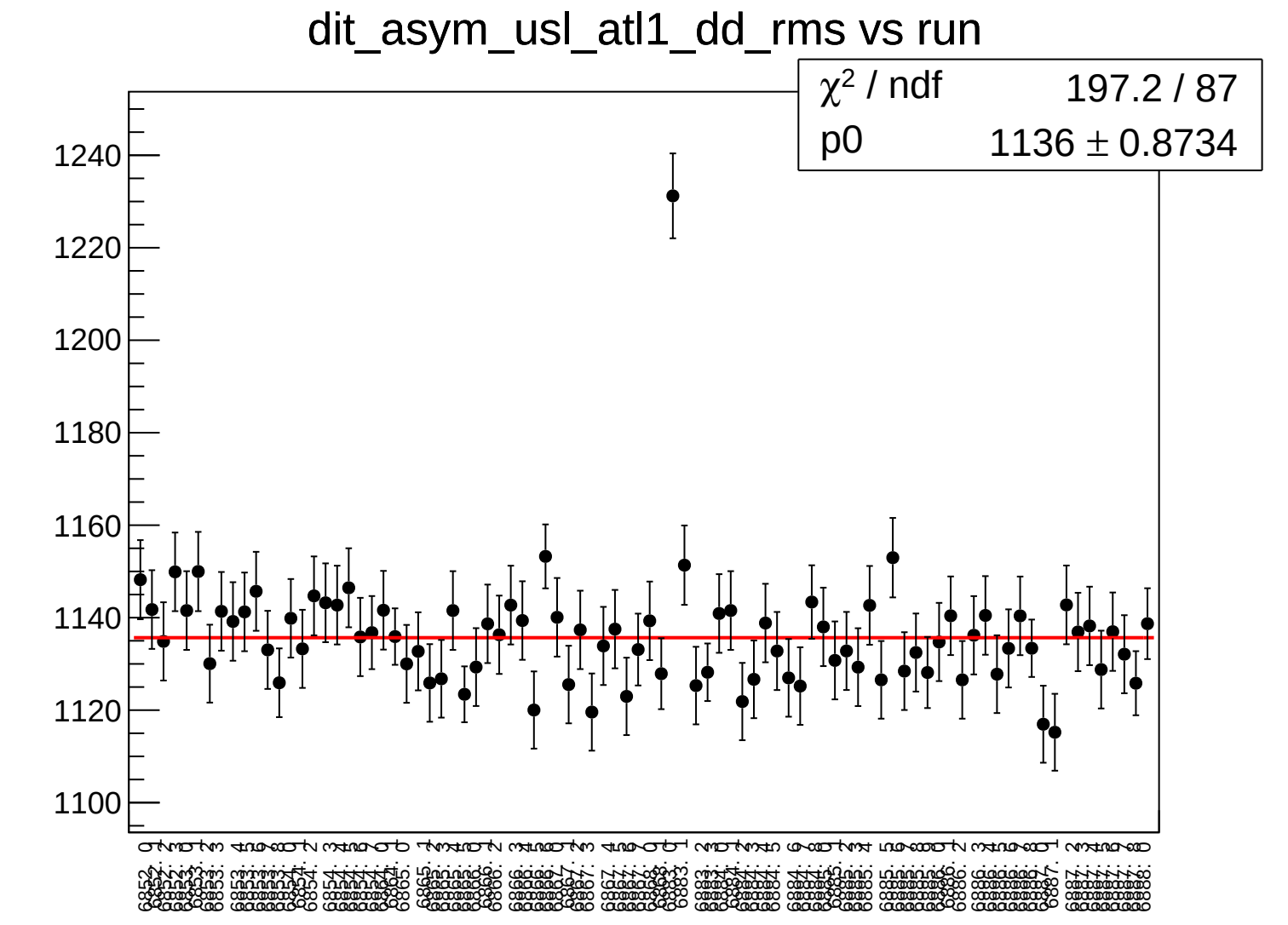

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.5 / 87
p0 −1828 ± 687.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 156.9
Std Dev 0
3
2
1
0
−1
−2
−3

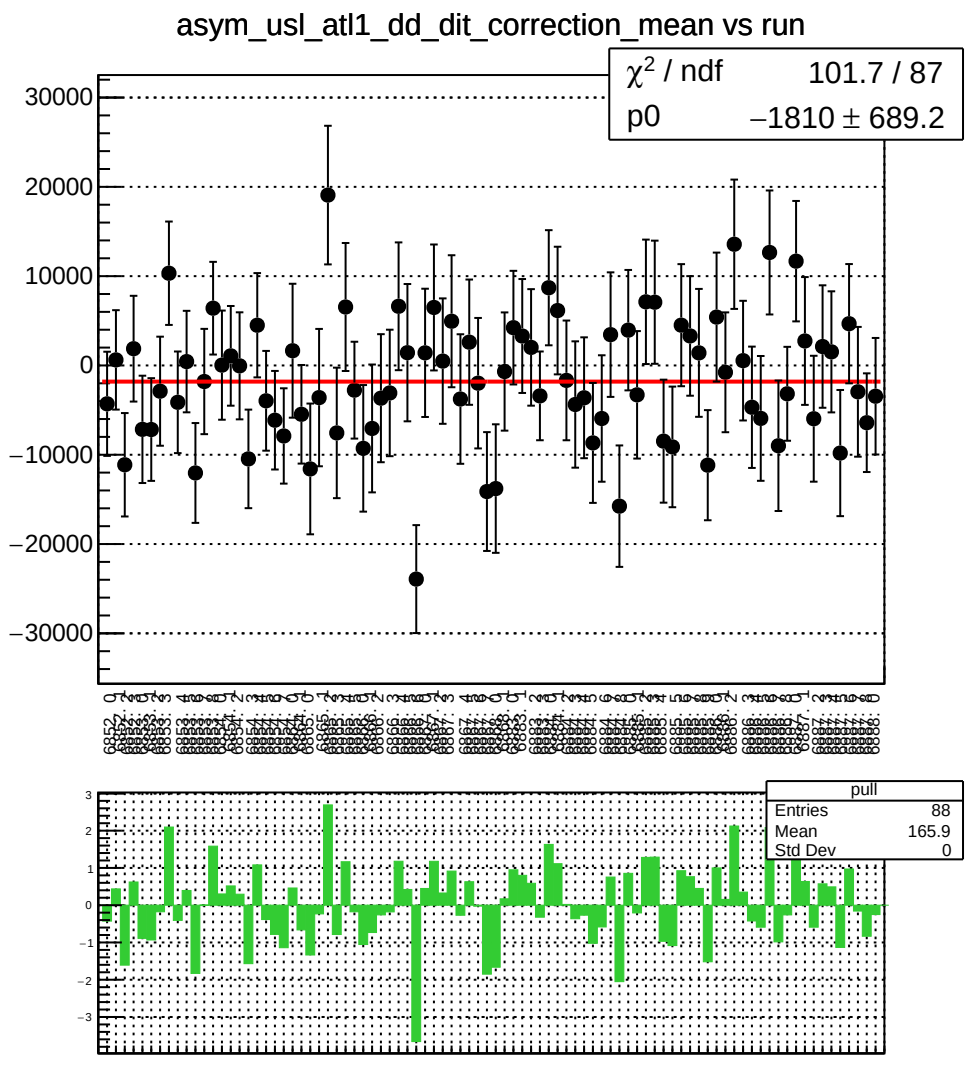

pull1D
Entries 88
Mean 0.0242
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

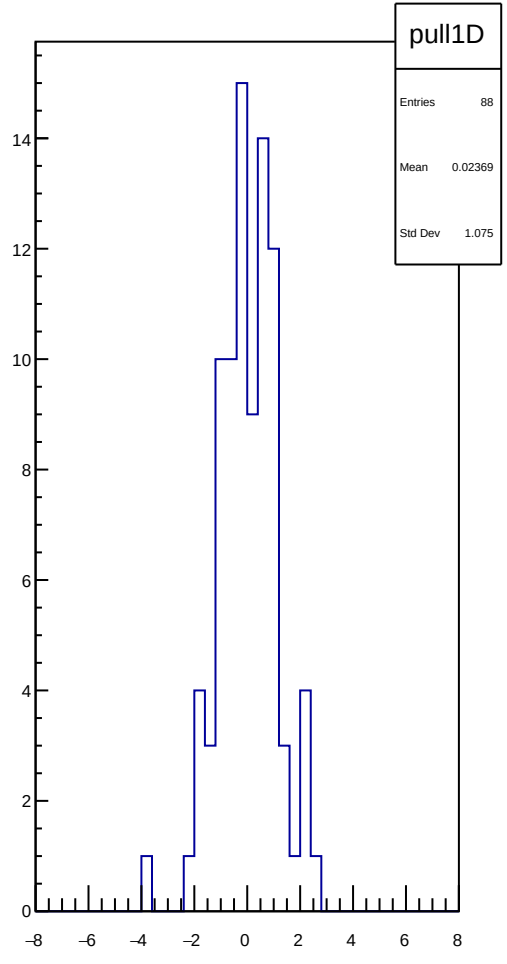

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.882e+04 / 87
p0 628.2 ± 0.4858
750
700
650
600
550
500

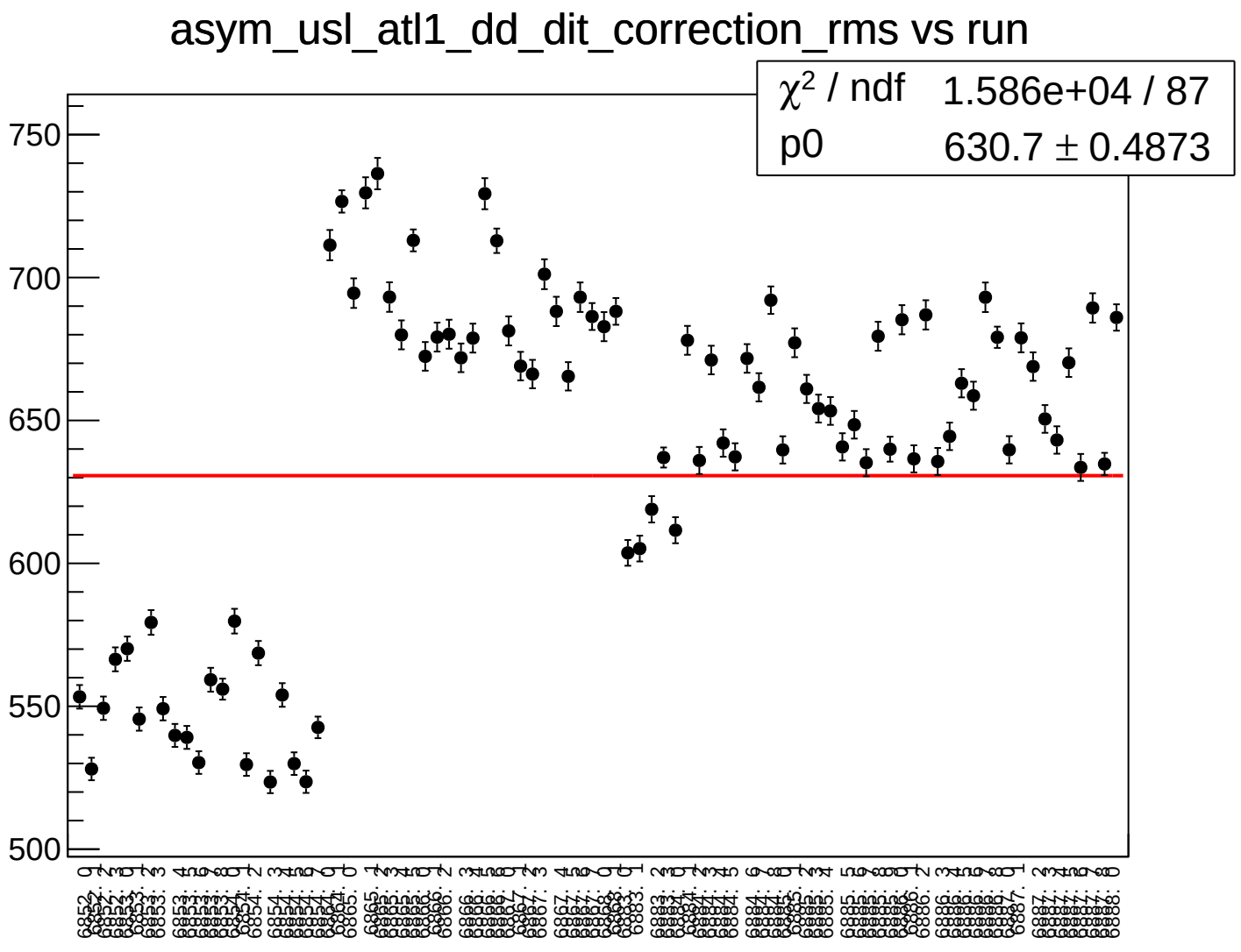

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 89.53 / 87
p0 −1096 ± 1235
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −260.1
Std Dev 0
2
1
0
−1
−2
−3

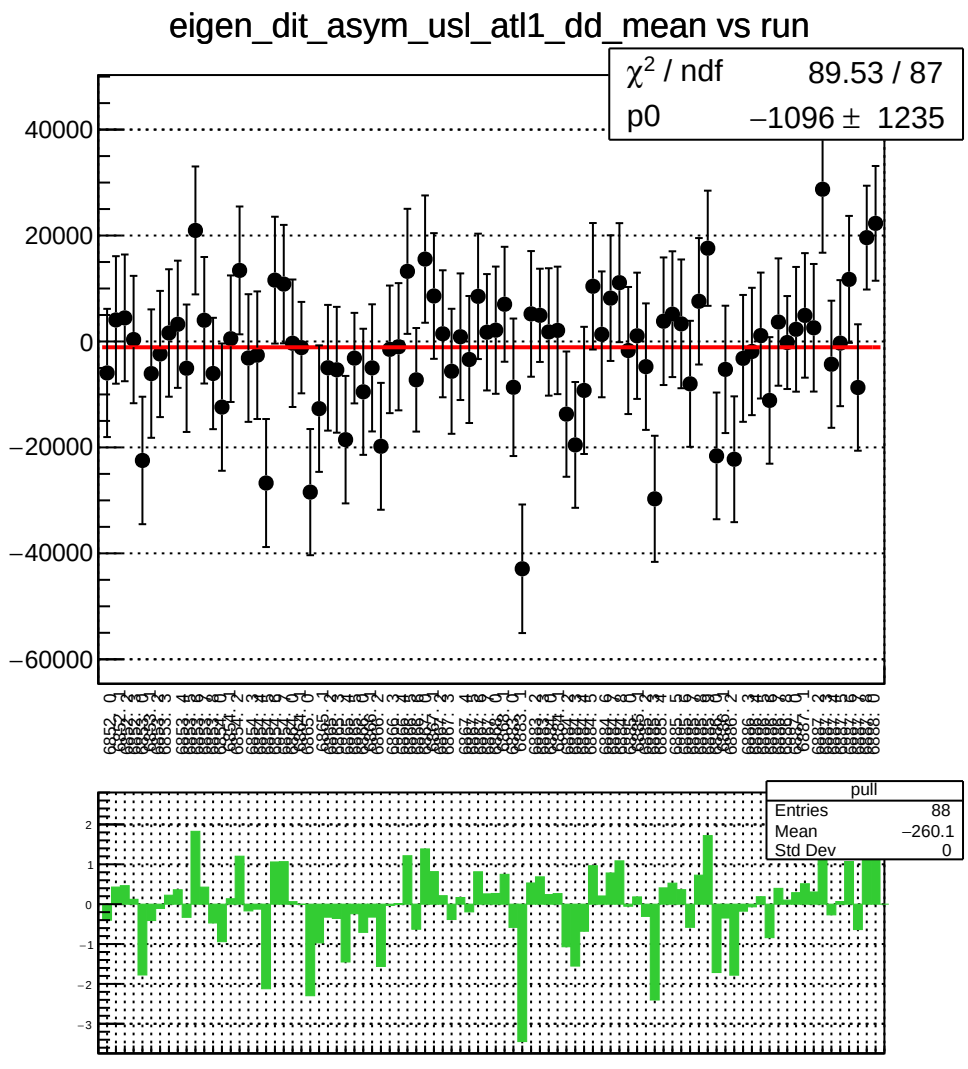

pull1D
Entries 88
Mean −0.01332
Std Dev 1.009
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

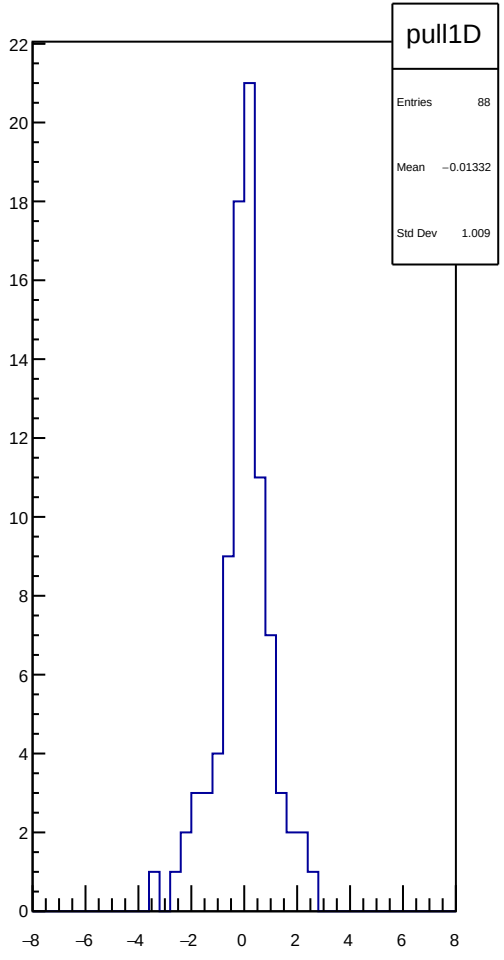

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 197.2 / 87
p0 1136 ± 0.8734
1240
1220
1200
1180
1160
1140
1120
1100

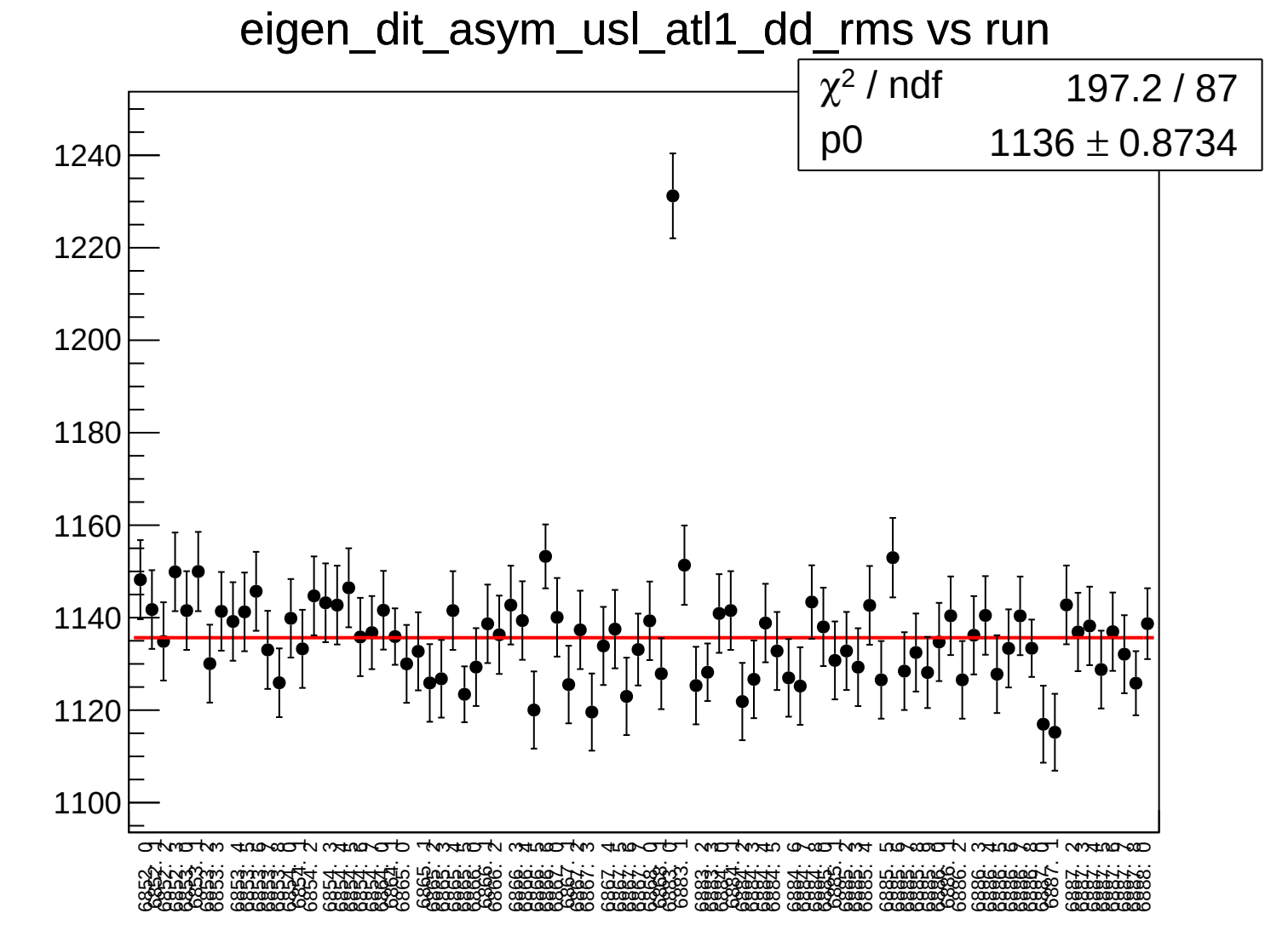

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 101.7 / 87
p0 −1810 ± 689.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 165.9
Std Dev 0
3
2
1
0
−1
−2
−3

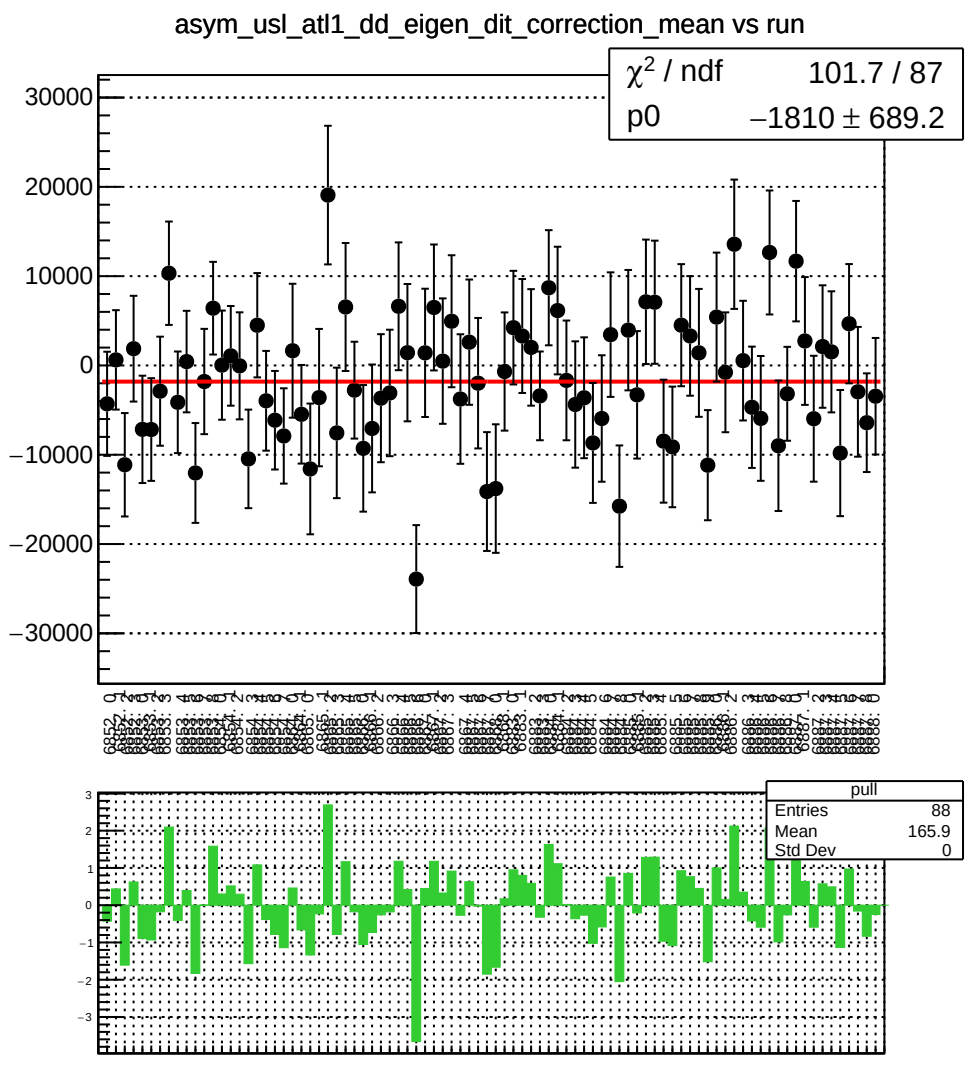

pull1D
Entries 88
Mean 0.02369
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

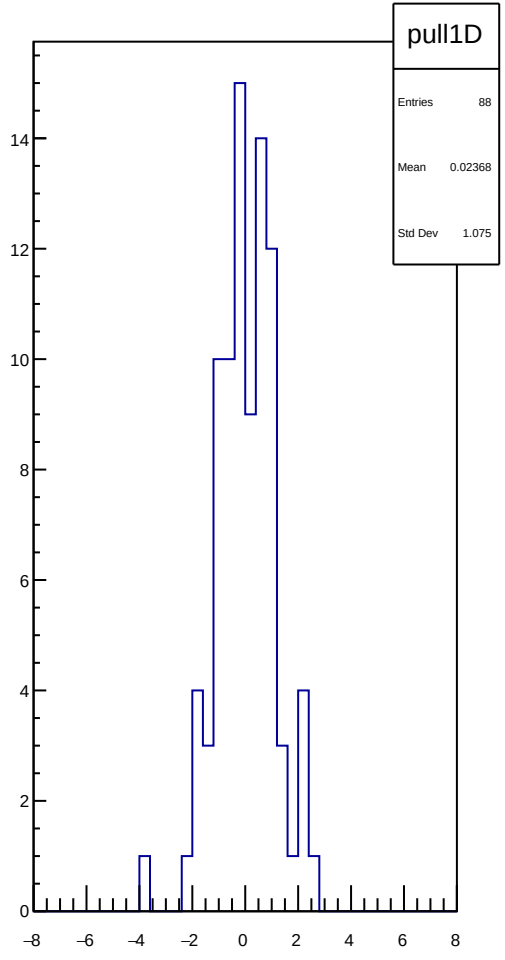

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.586e+04 / 87
p0 630.7 ± 0.4873
750
700
650
600
550
500

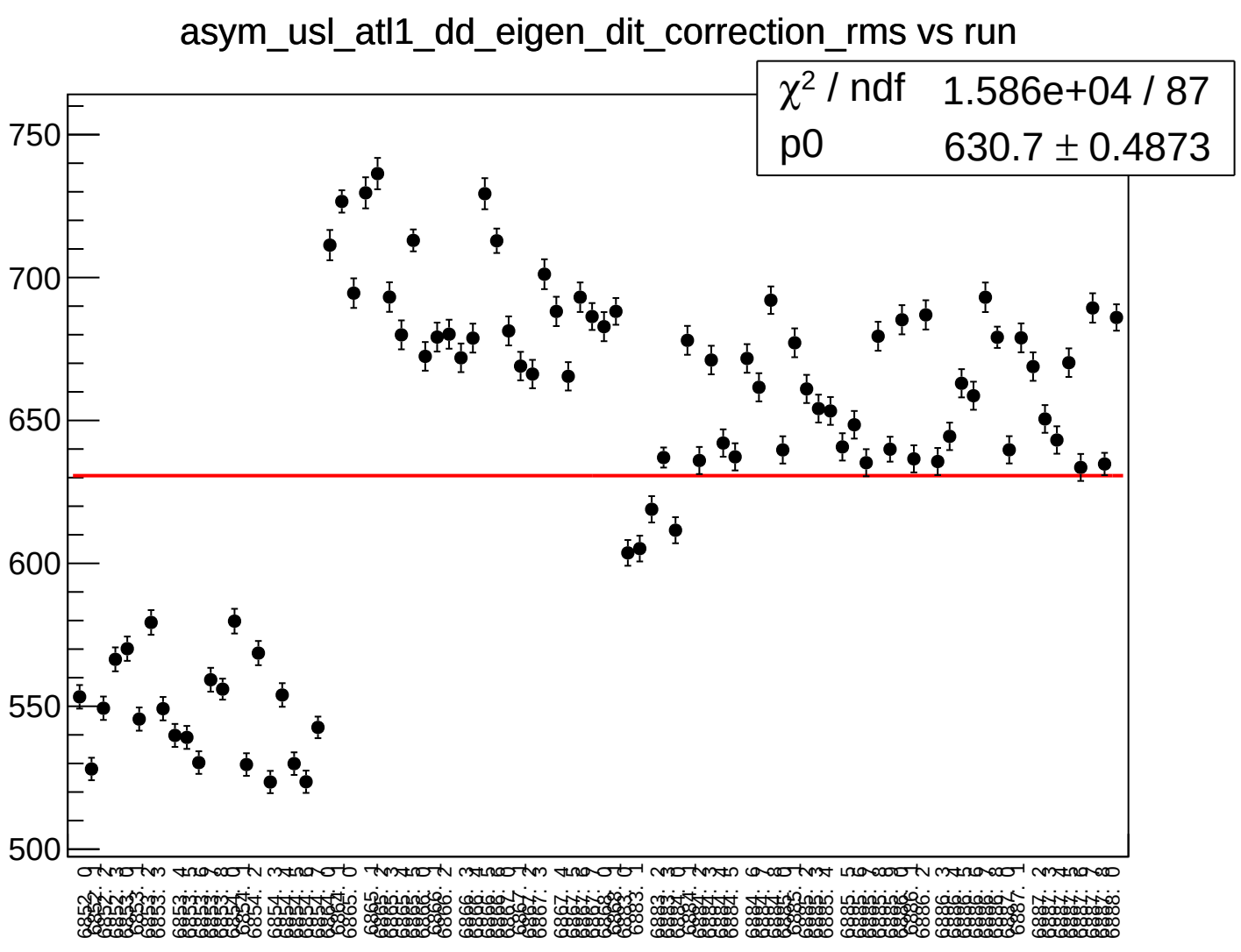

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 89.53 / 87
p0 −1096 ± 1235
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −260.1
Std Dev 0
2
1
0
−1
−2
−3

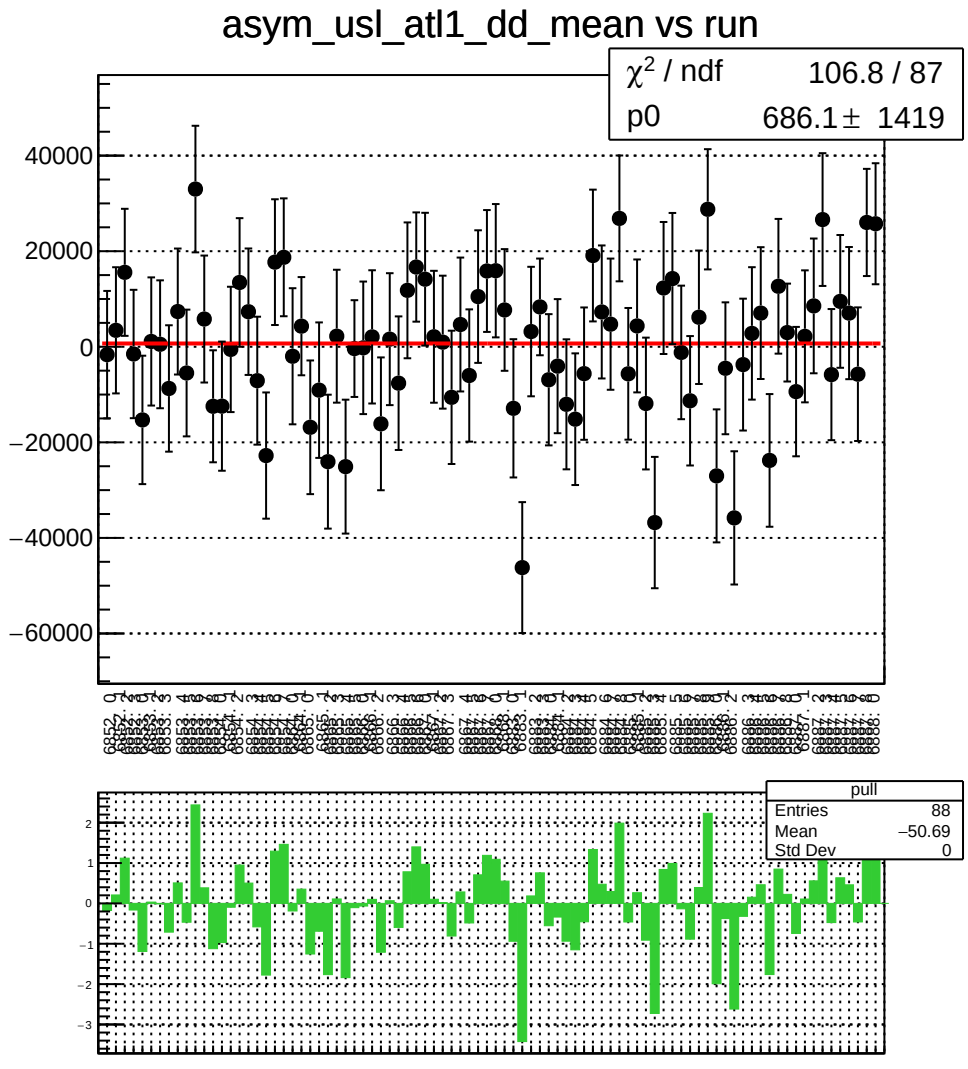

pull1D
Entries 88
Mean −0.01332
Std Dev 1.009
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

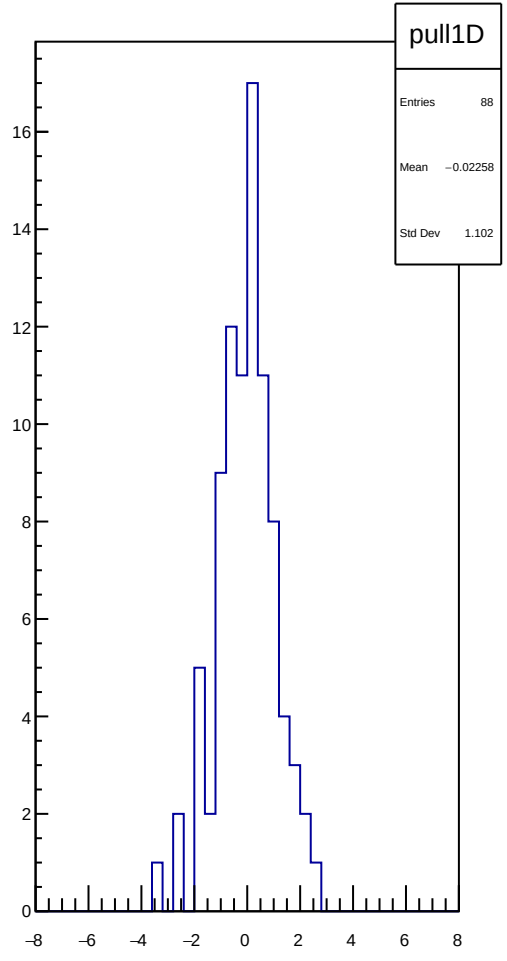

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 197.2 / 87
p0 1136 ± 0.8734
1240
1220
1200
1180
1160
1140
1120
1100

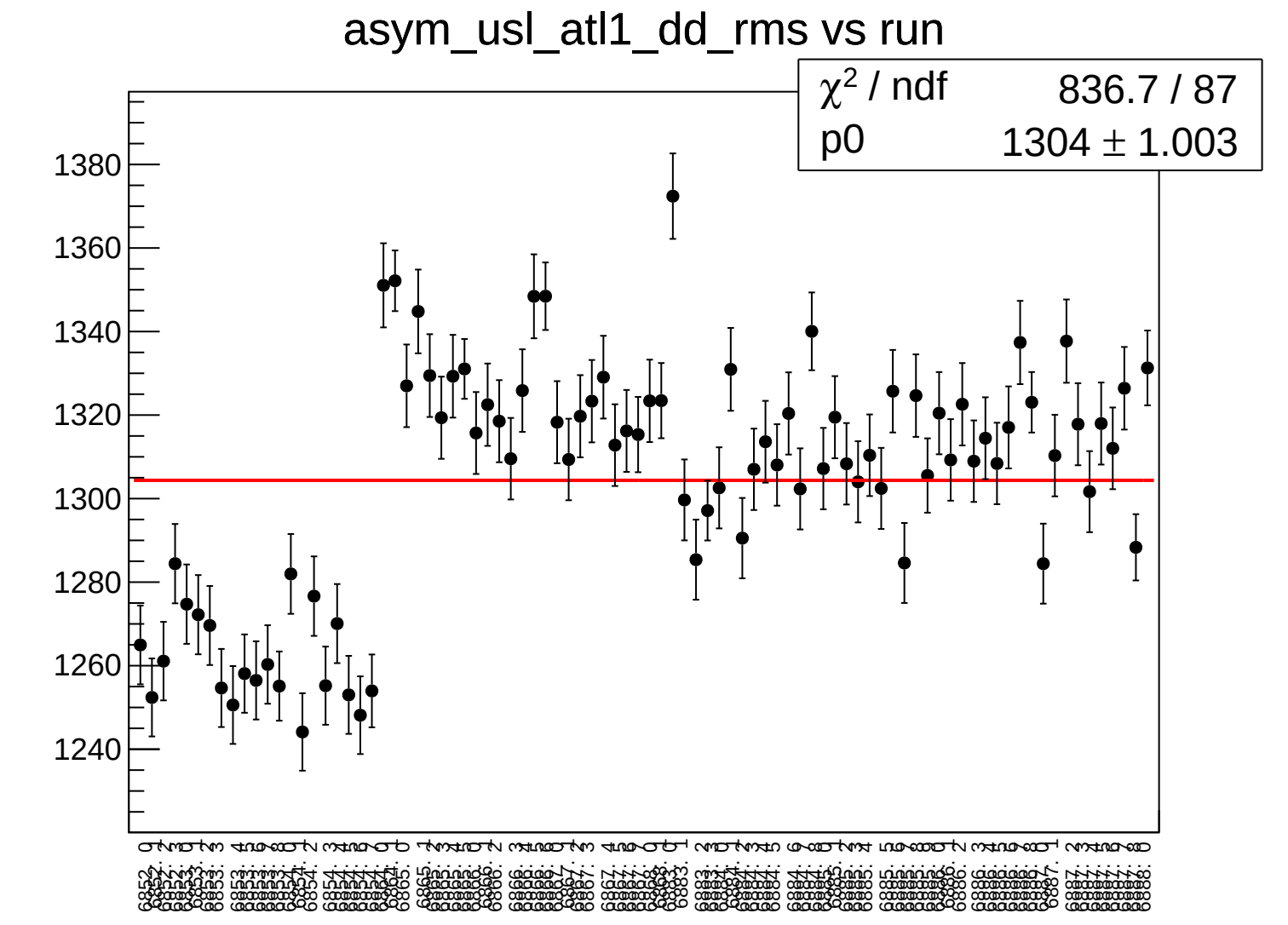

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.7 / 87
p0 −1810 ± 689.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 165.9
Std Dev 0
3
2
1
0
−1
−2
−3

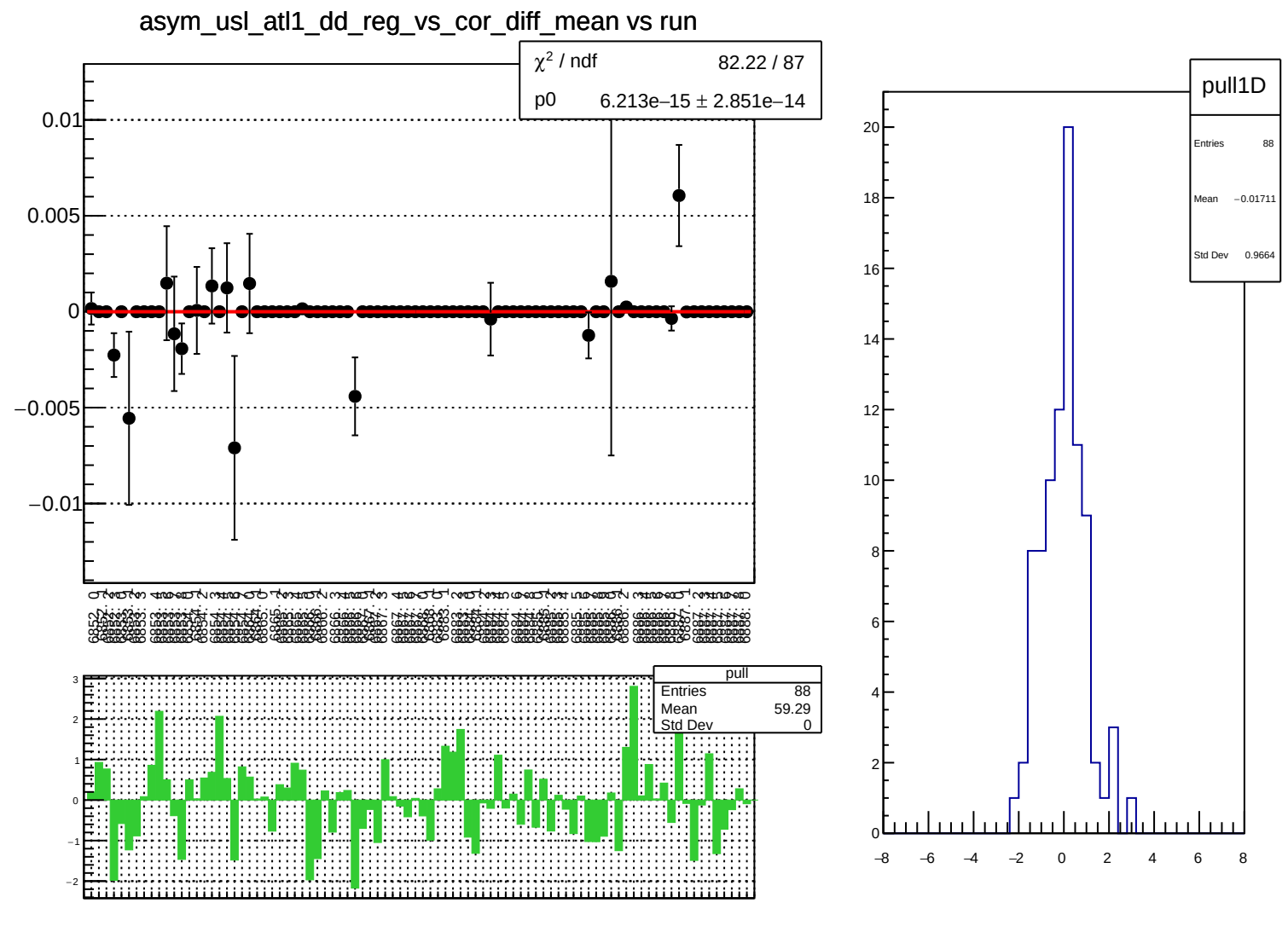

pull1D
Entries 88
Mean 0.02368
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

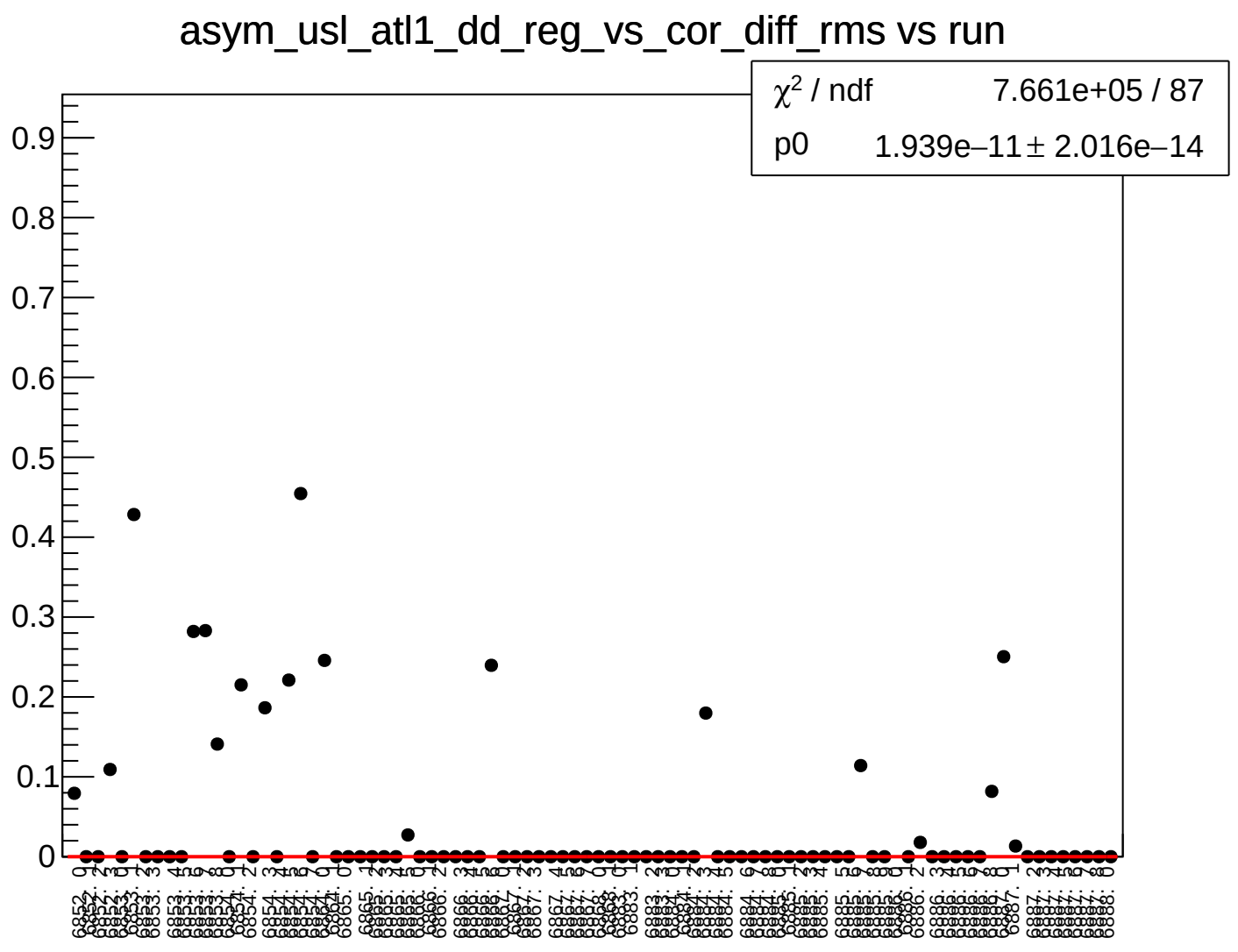

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.586e+04 / 87
p0 630.7 ± 0.4873
750
700
650
600
550
500

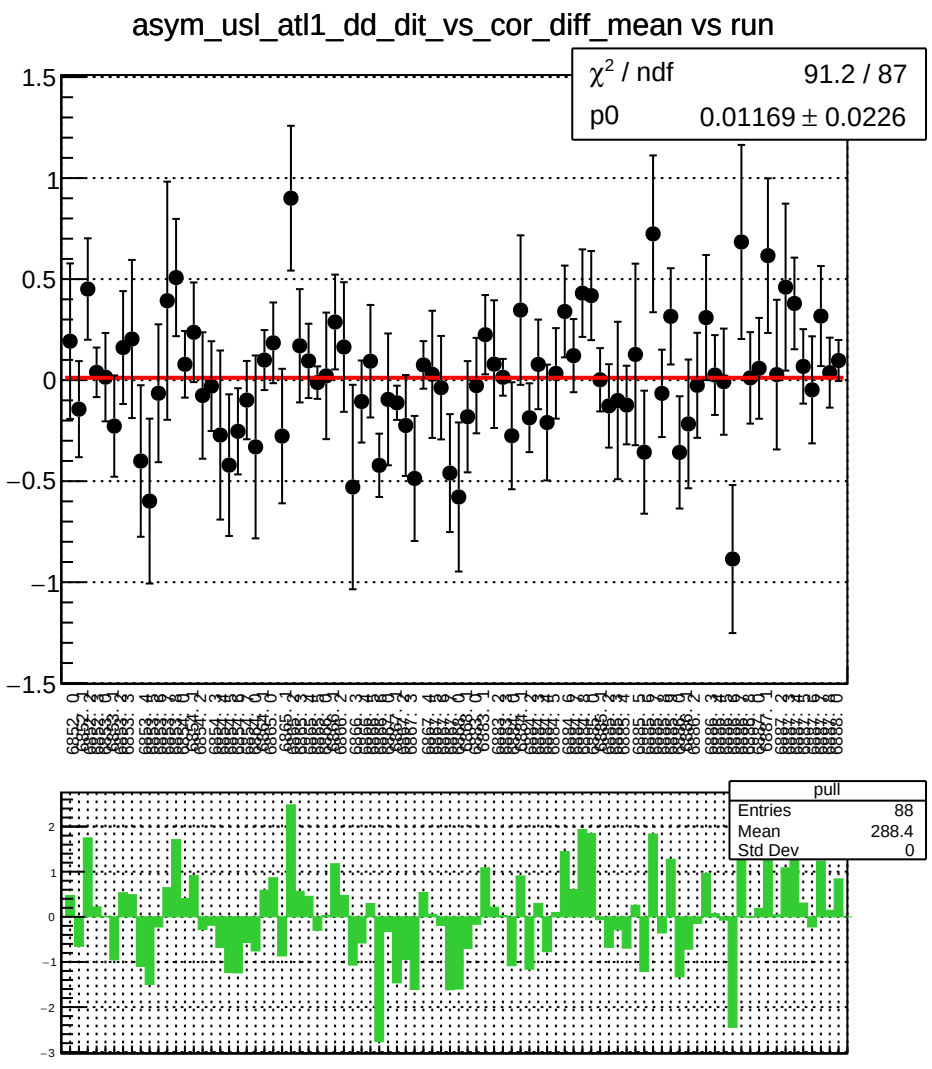

asym_usl_atl1_dd_mean vs run
χ² / ndf 106.8 / 87
p0 686.1 ± 1419
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −50.69
Std Dev 0
2
1
0
−1
−2
−3

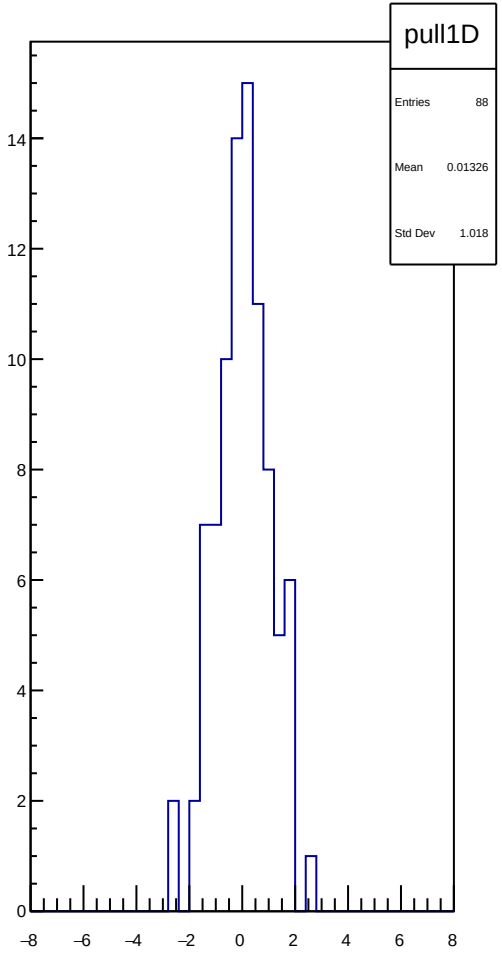

pull1D
Entries 88
Mean −0.02258
Std Dev 1.102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

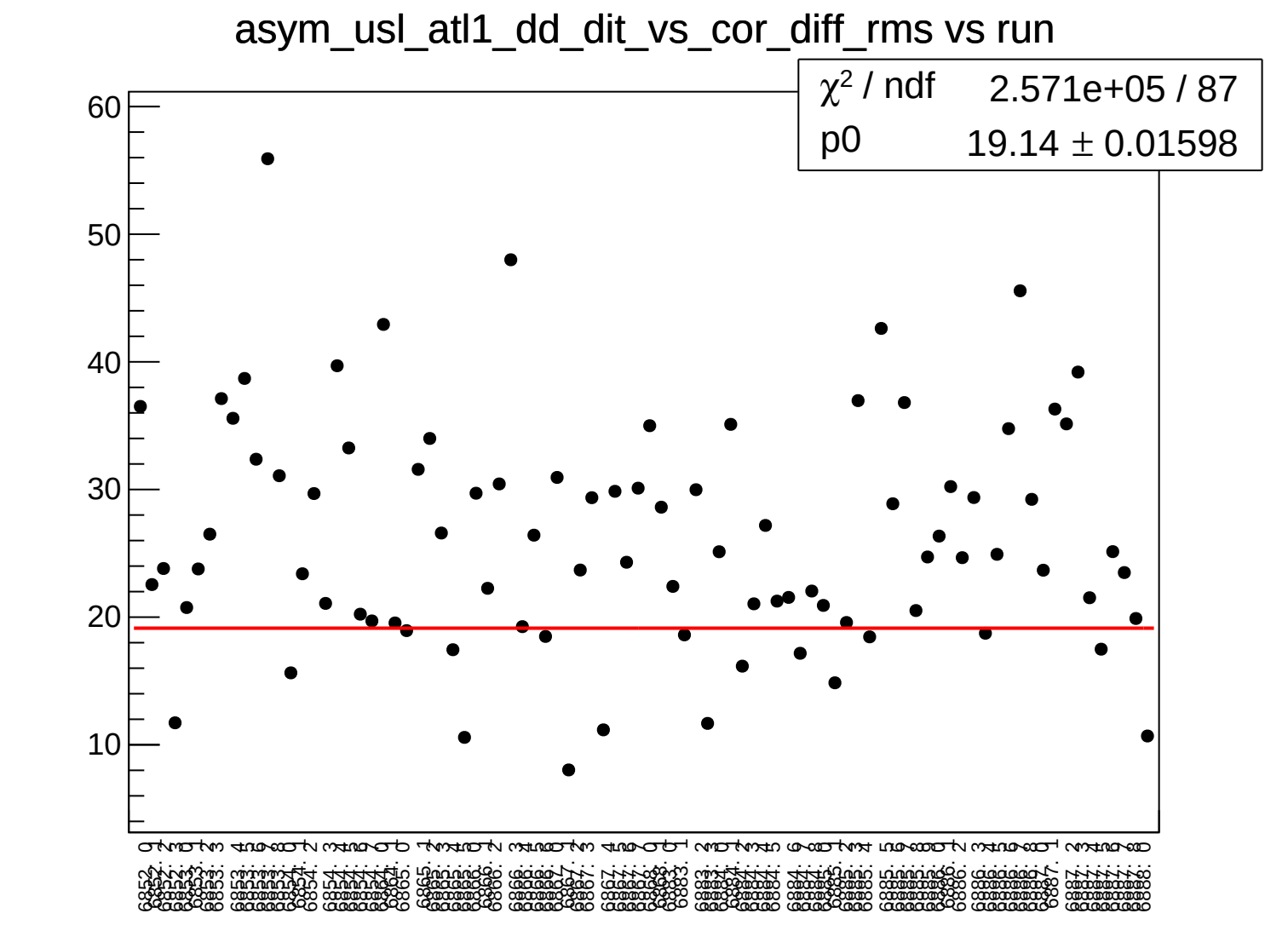

asym_usl_atl1_dd_rms vs run
χ² / ndf 836.7 / 87
p0 1304 ± 1.003
1380
1360
1340
1320
1300
1280
1260
1240

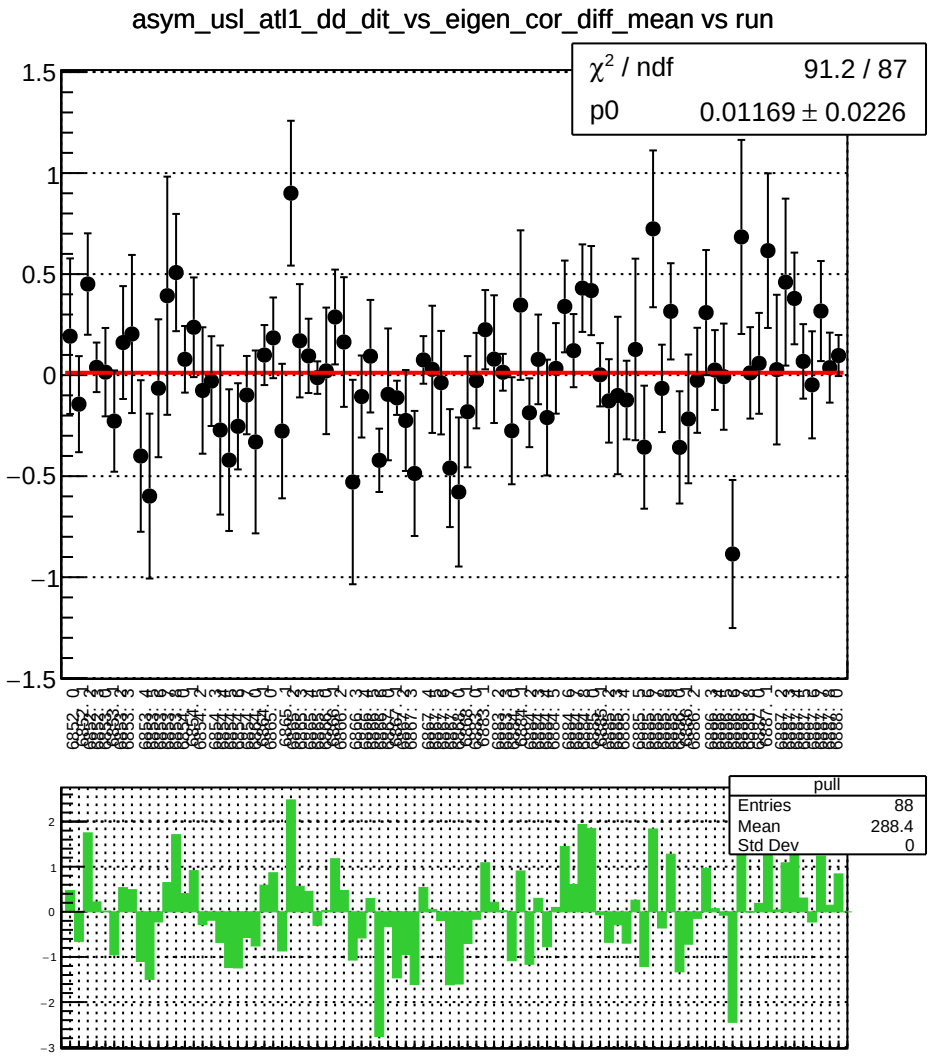

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.22 / 87
p0 6.213e−15 ± 2.851e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 59.29
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01711
Std Dev 0.9664
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

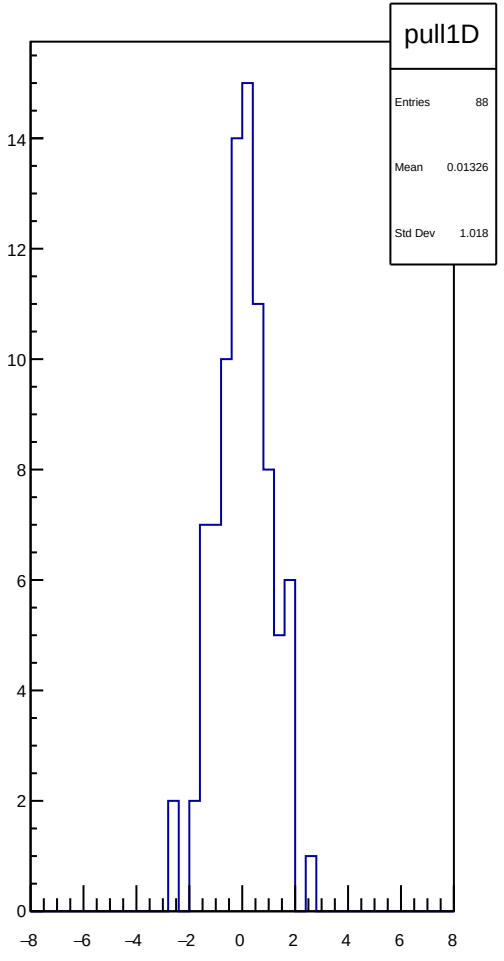

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.661e+05 / 87
p0 1.939e−11 ± 2.016e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

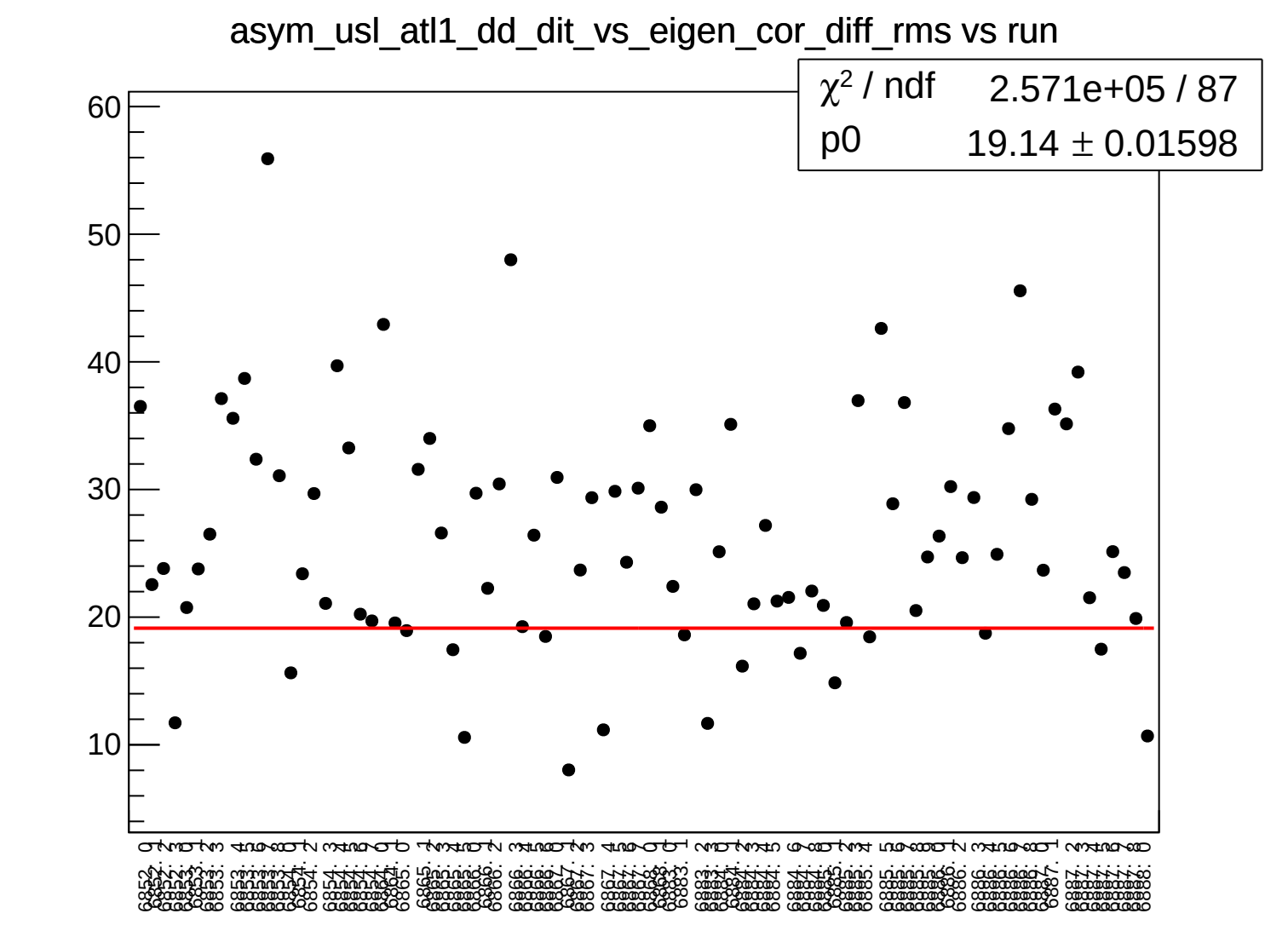

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.2 / 87
p0 0.01169 ± 0.0226
pull
Entries 88
Mean 288.4
Std Dev 0

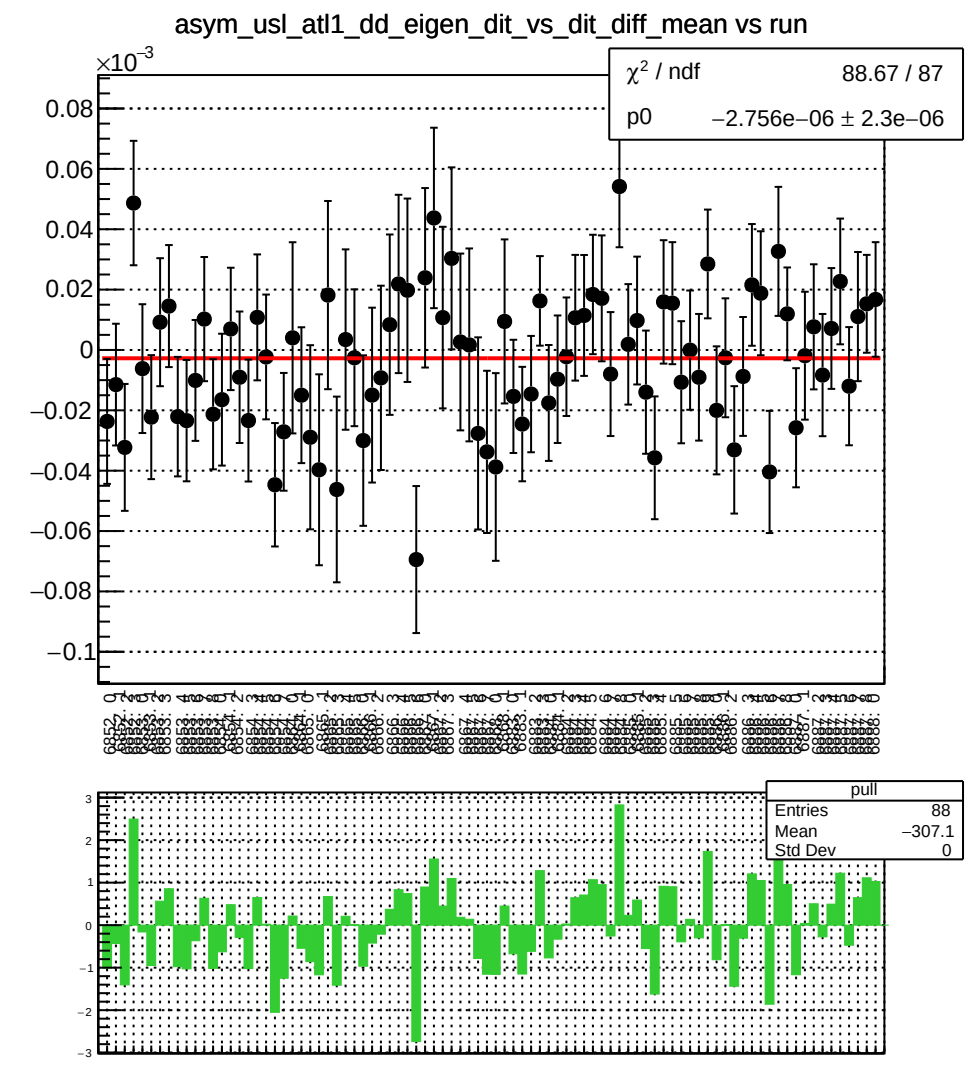

pull1D
Entries 88
Mean 0.01326
Std Dev 1.018

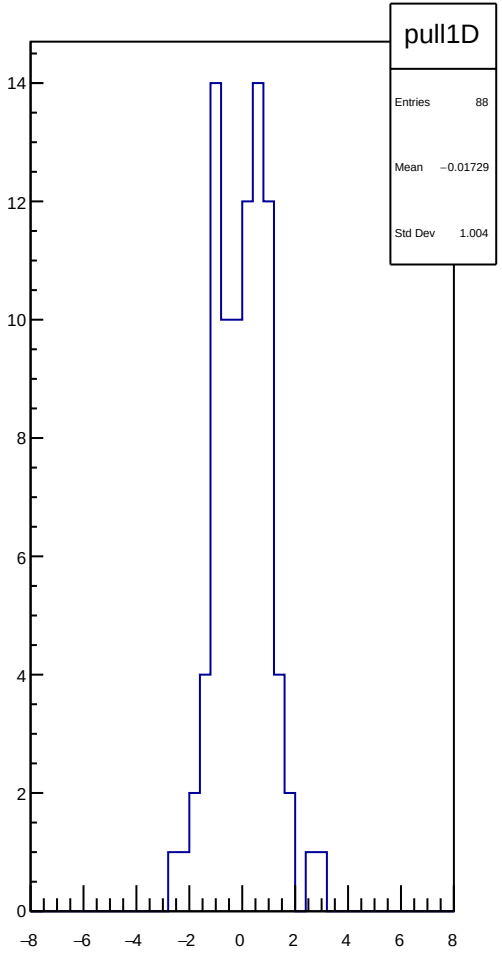

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.571e+05 / 87
p0 19.14 ± 0.01598
60
50
40
30
20
10

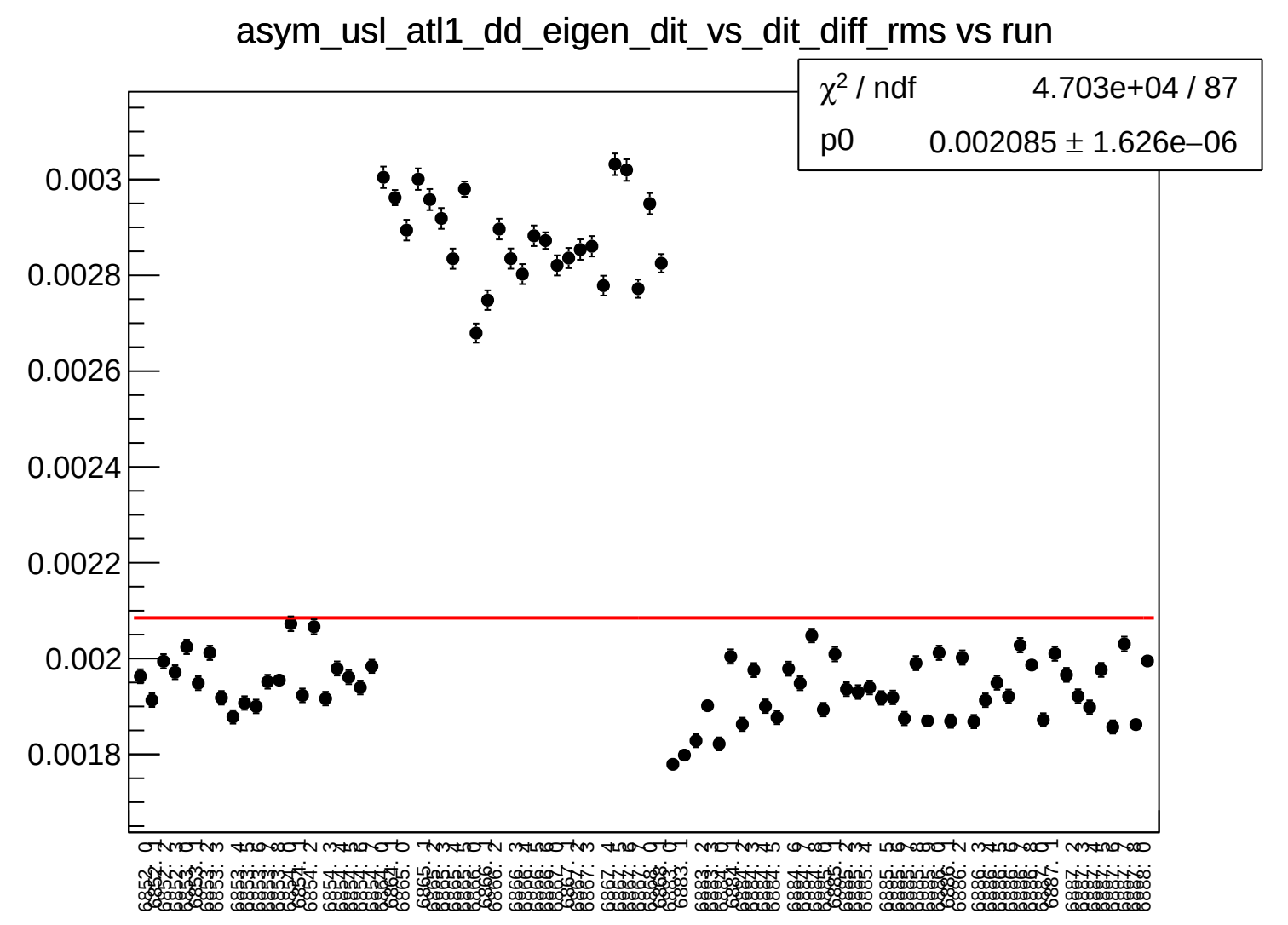

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.2 / 87
p0 0.01169 ± 0.0226
pull
Entries 88
Mean 288.4
Std Dev 0

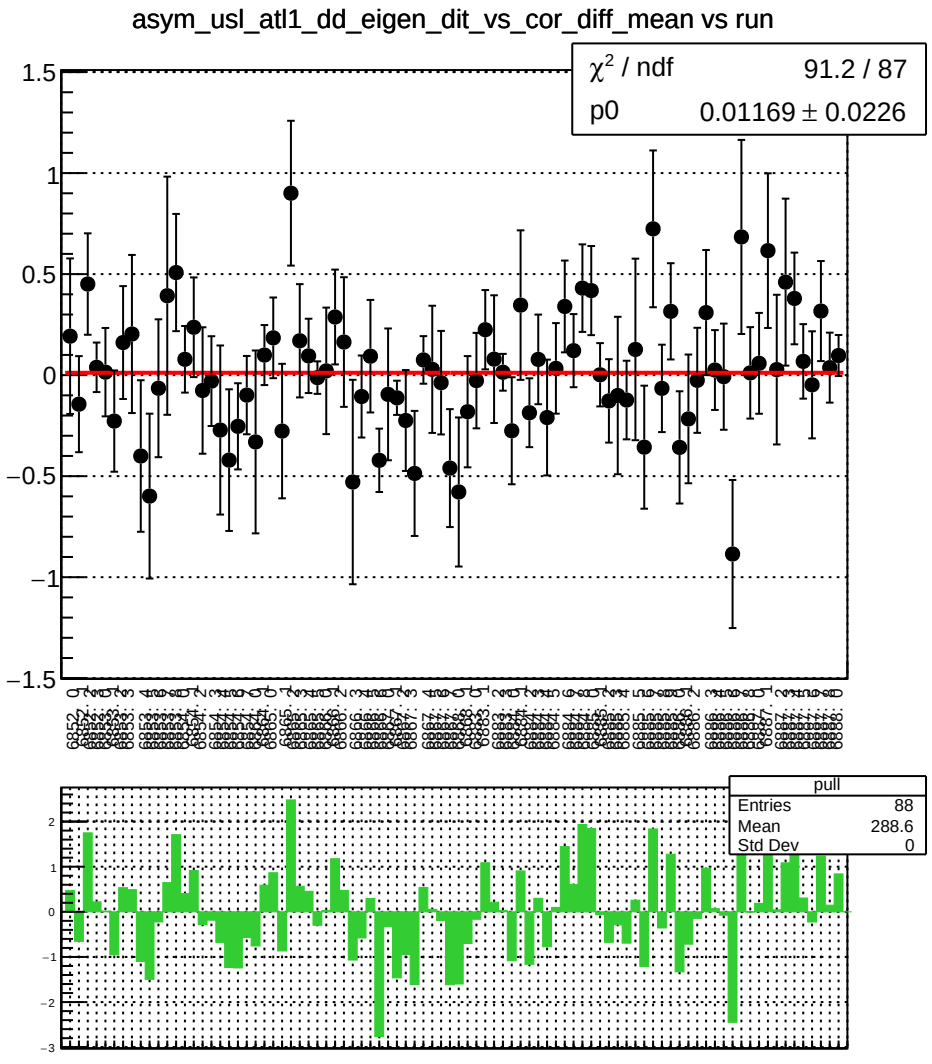

pull1D
Entries 88
Mean 0.01326
Std Dev 1.018

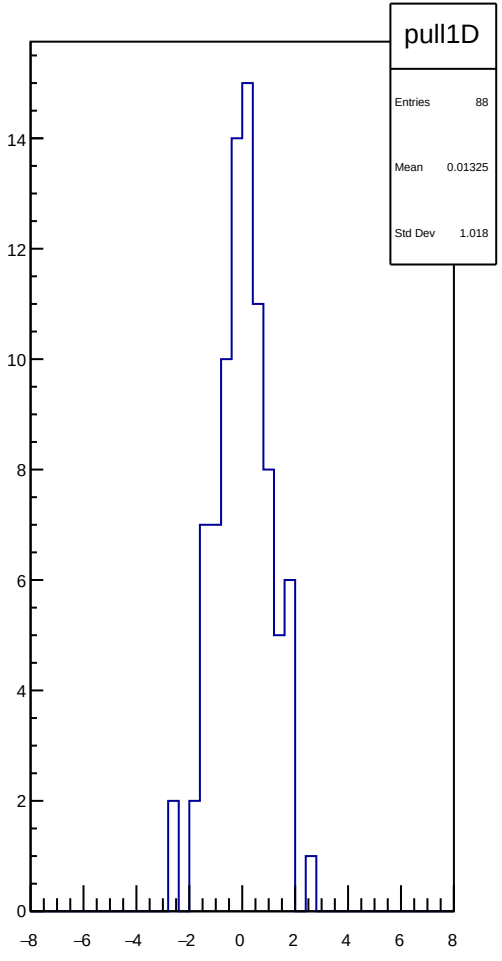

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.571e+05 / 87
p0 19.14 ± 0.01598
60
50
40
30
20
10

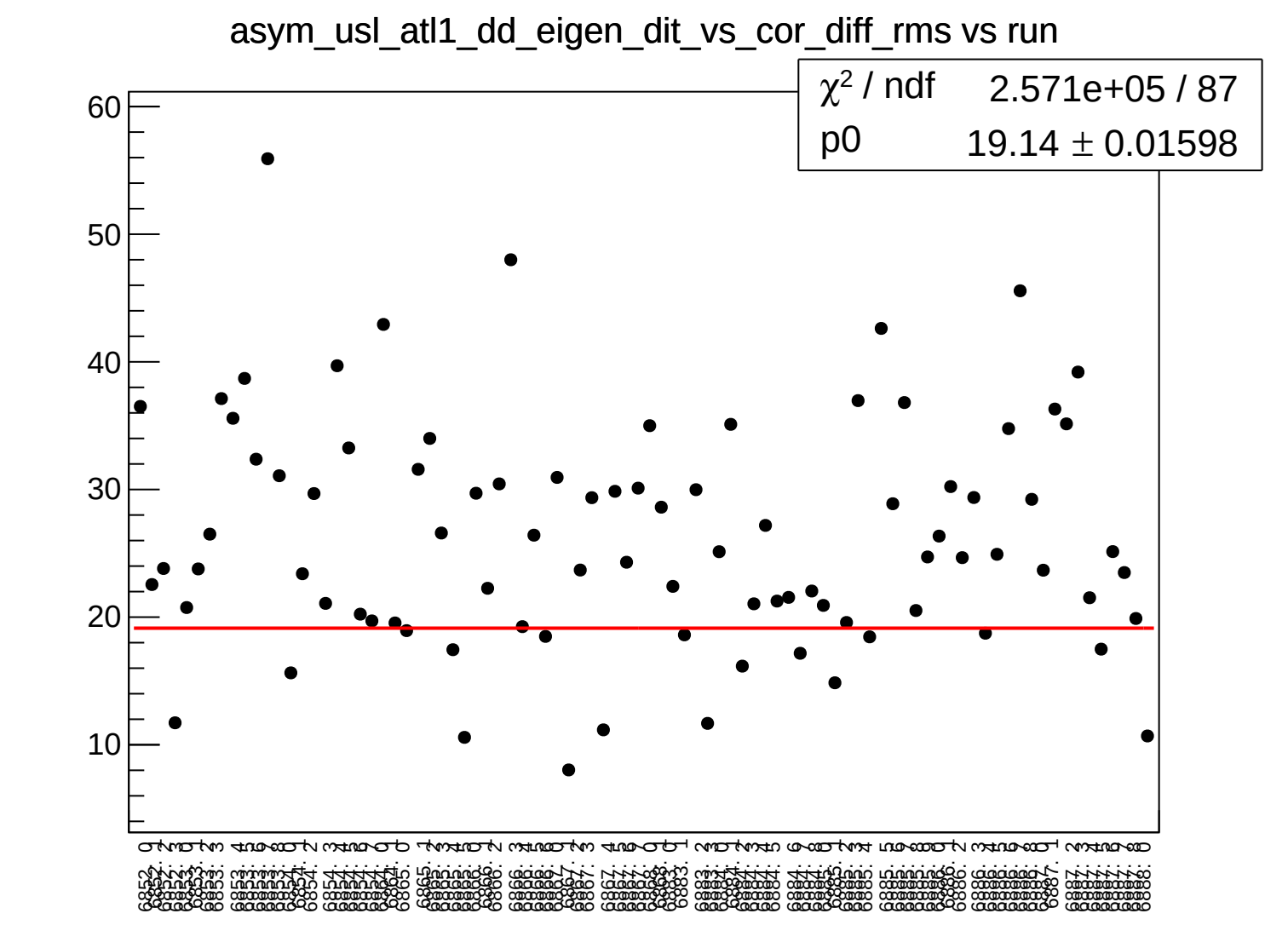

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.67 / 87
p0 −2.756e−06 ± 2.3e−06
pull
Entries 88
Mean −307.1
Std Dev 0

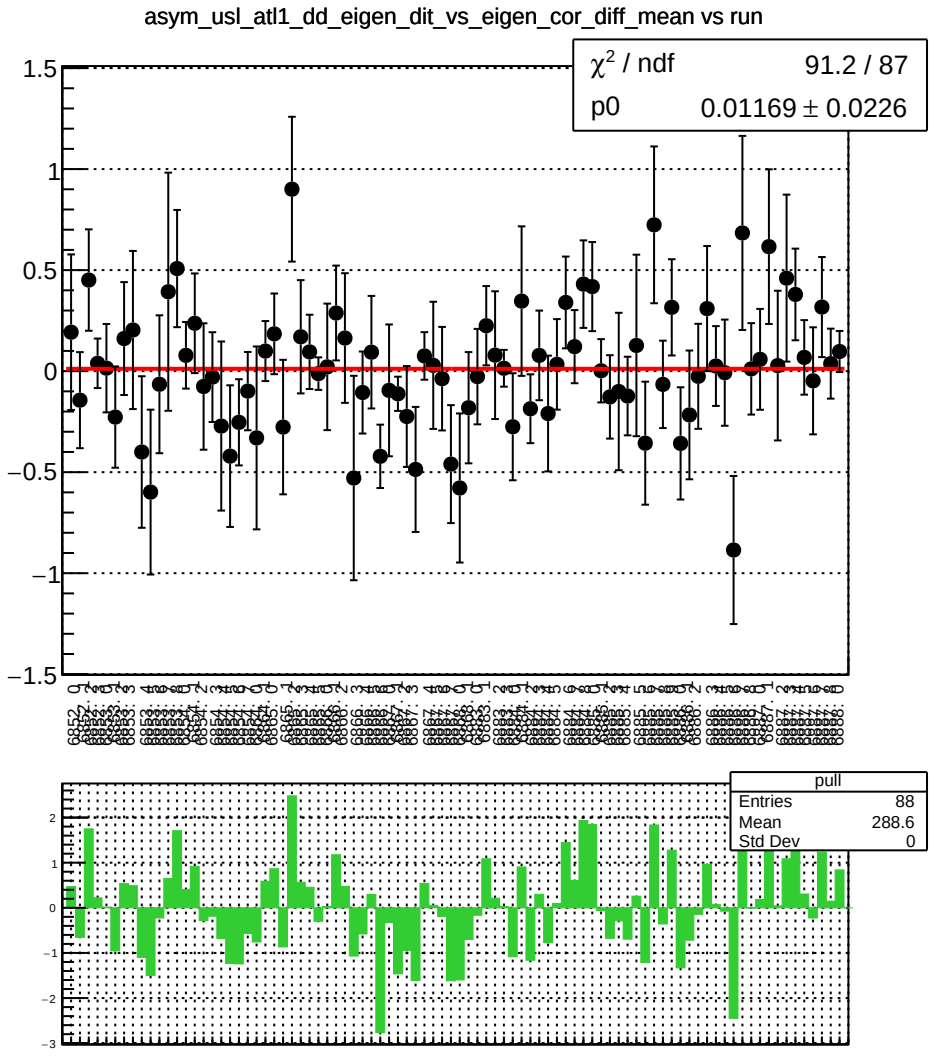

pull1D
Entries 88
Mean −0.01729
Std Dev 1.004

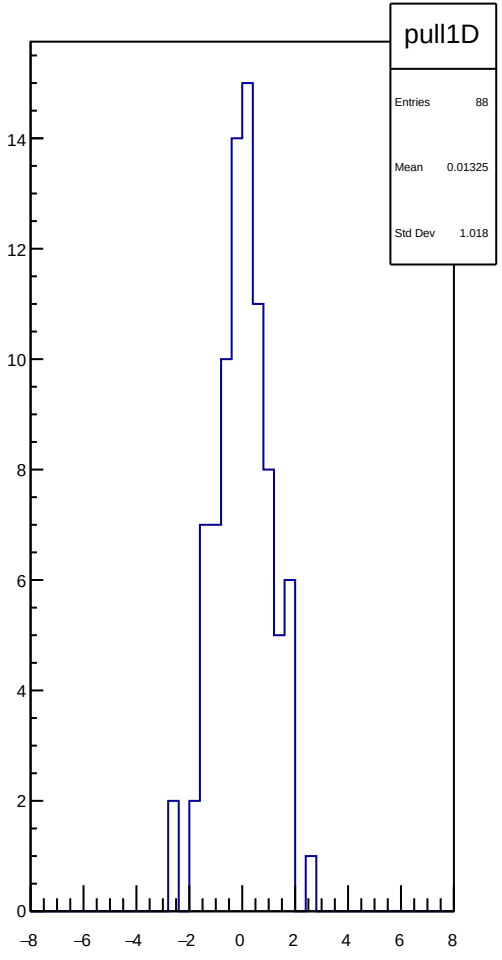

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.703e+04 / 87
p0 0.002085 ± 1.626e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

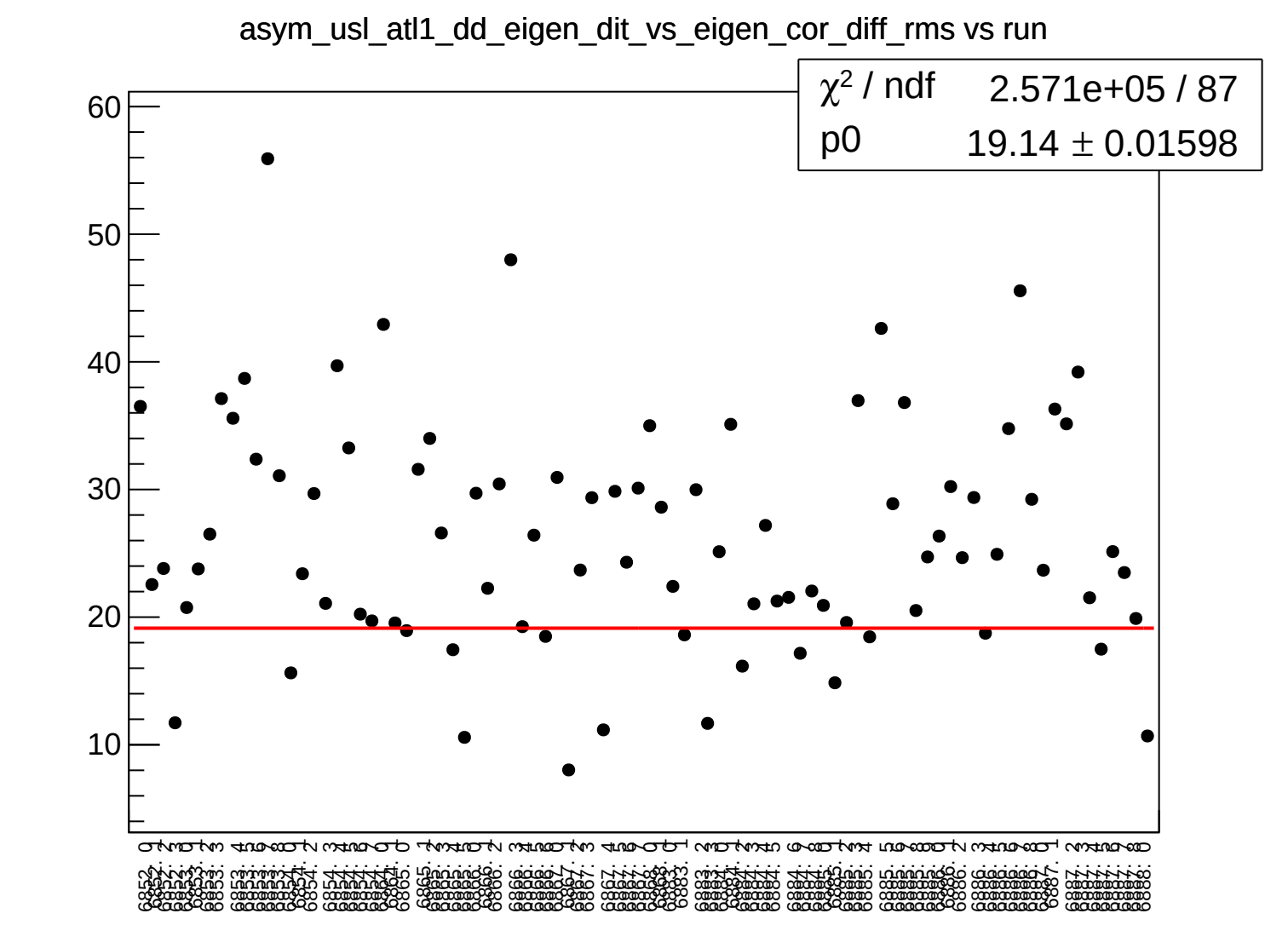

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.2 / 87
p0 0.01169 ± 0.0226
pull
Entries 88
Mean 288.6
Std Dev 0

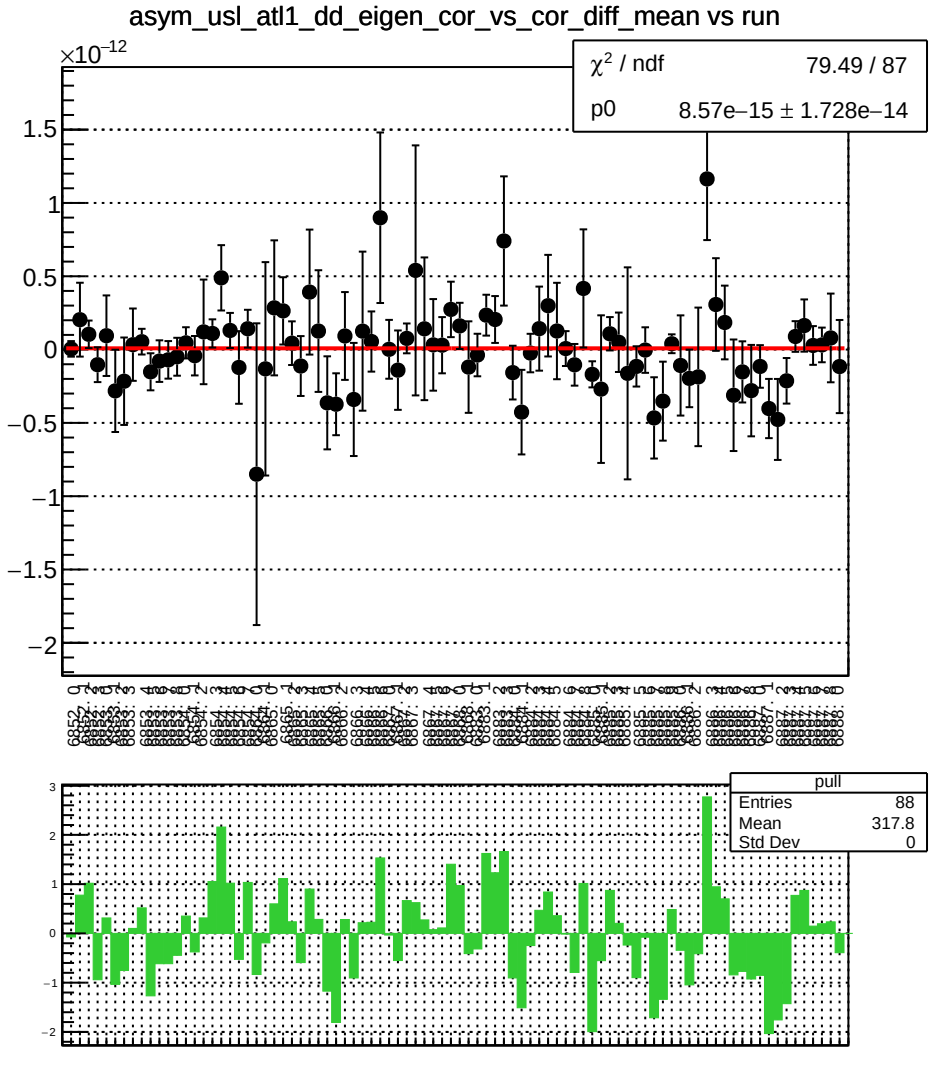

pull1D
Entries 88
Mean 0.01325
Std Dev 1.018

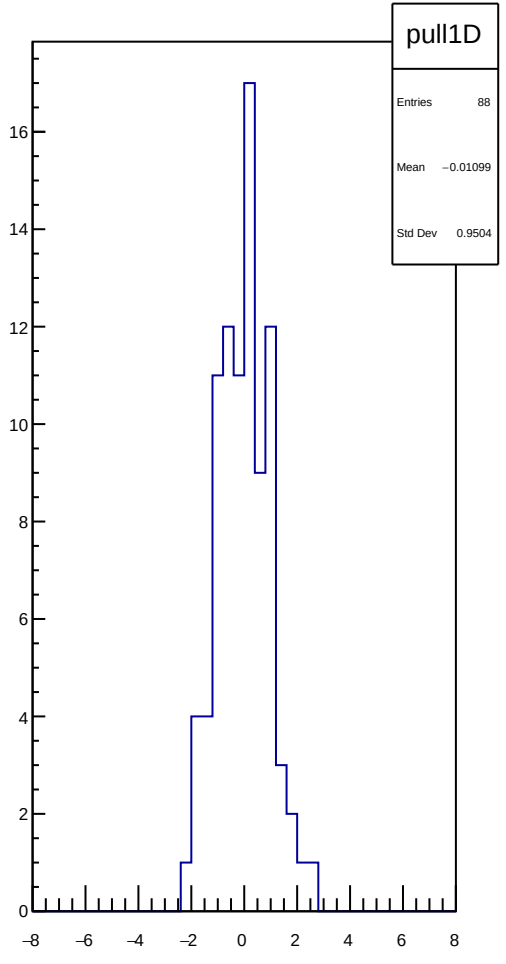

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.571e+05 / 87
p0 19.14 ± 0.01598
60
50
40
30
20
10

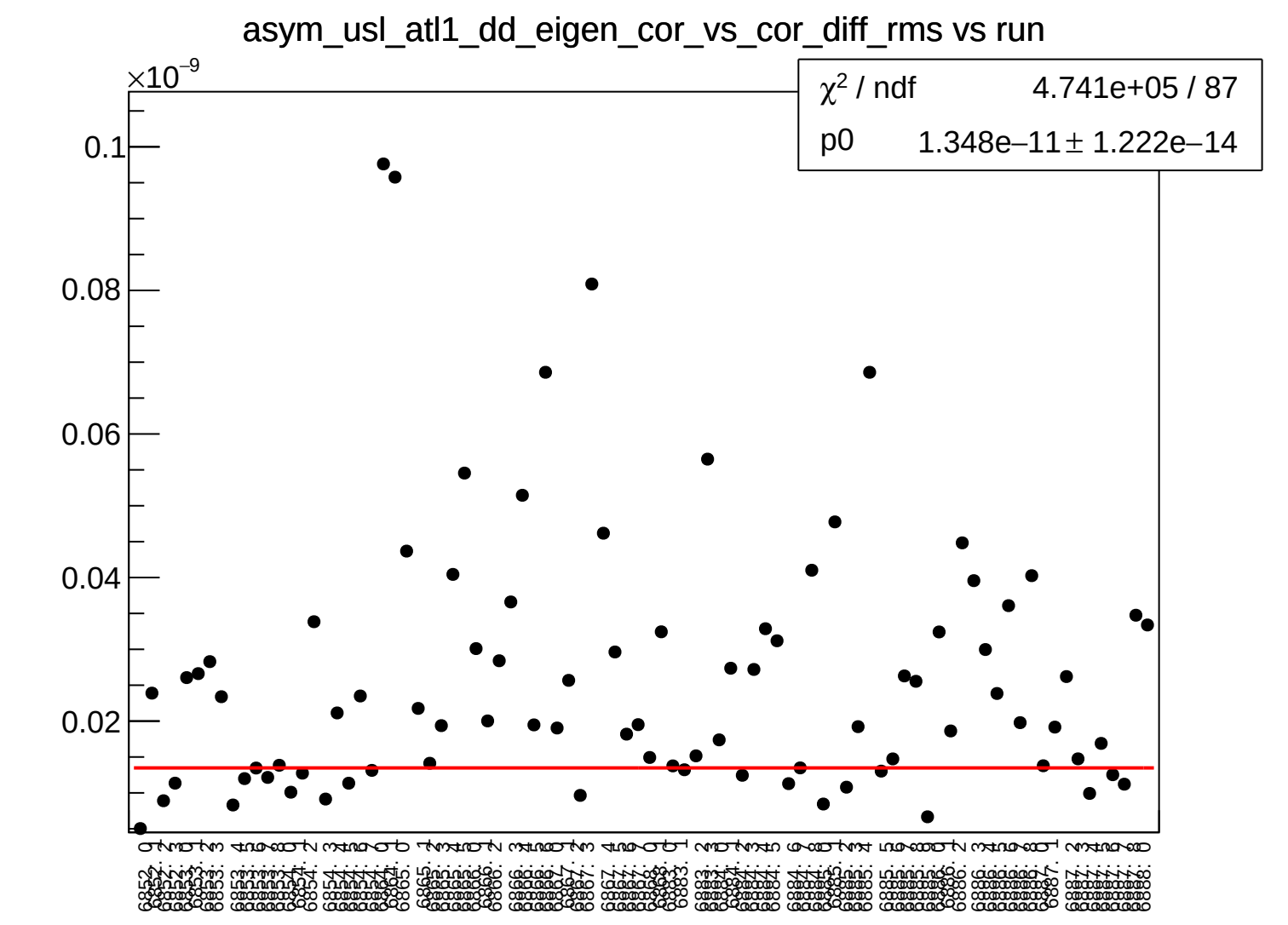

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.2 / 87
p0 0.01169 ± 0.0226
pull
Entries 88
Mean 288.6
Std Dev 0

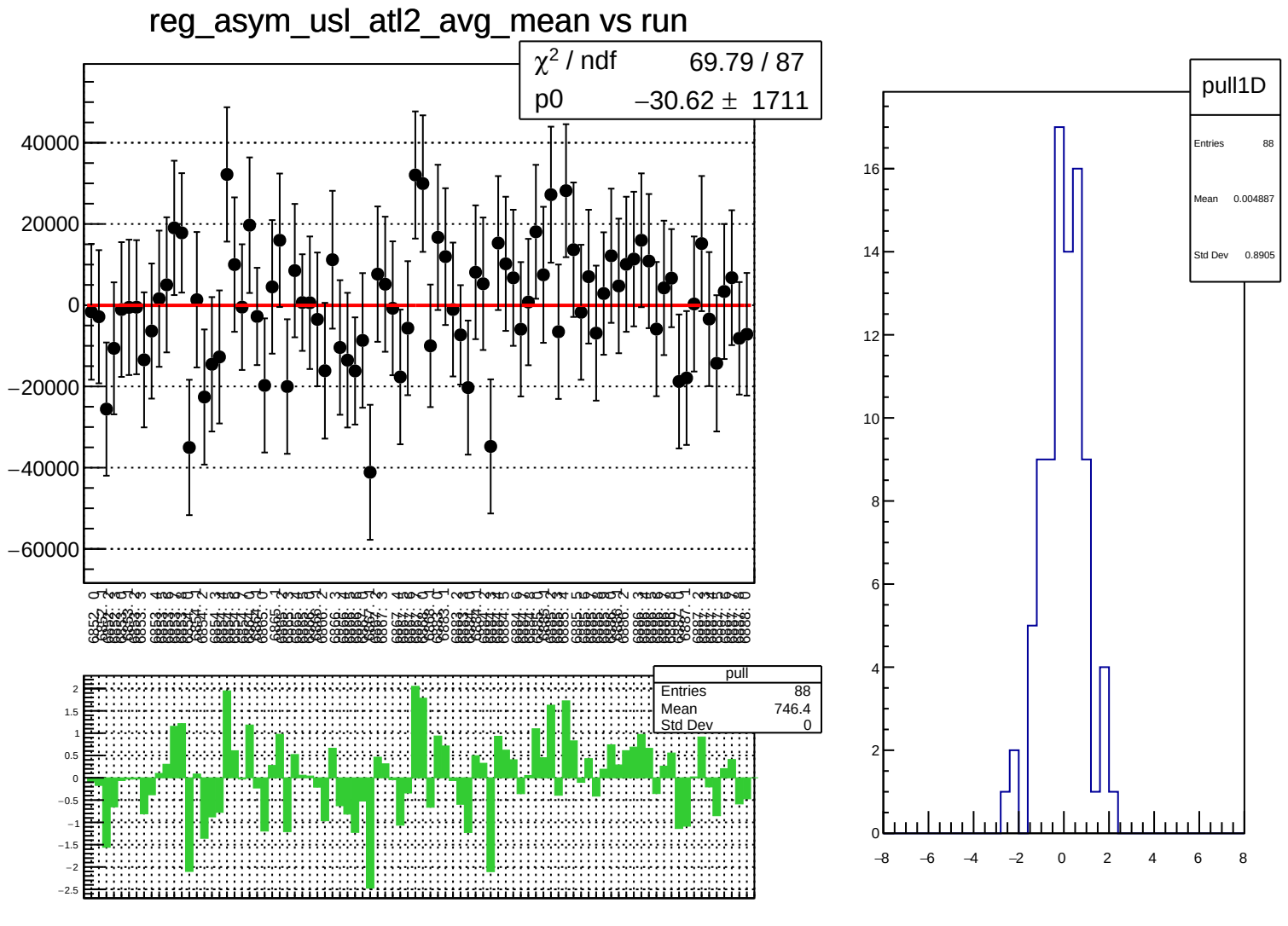

pull1D
Entries 88
Mean 0.01325
Std Dev 1.018

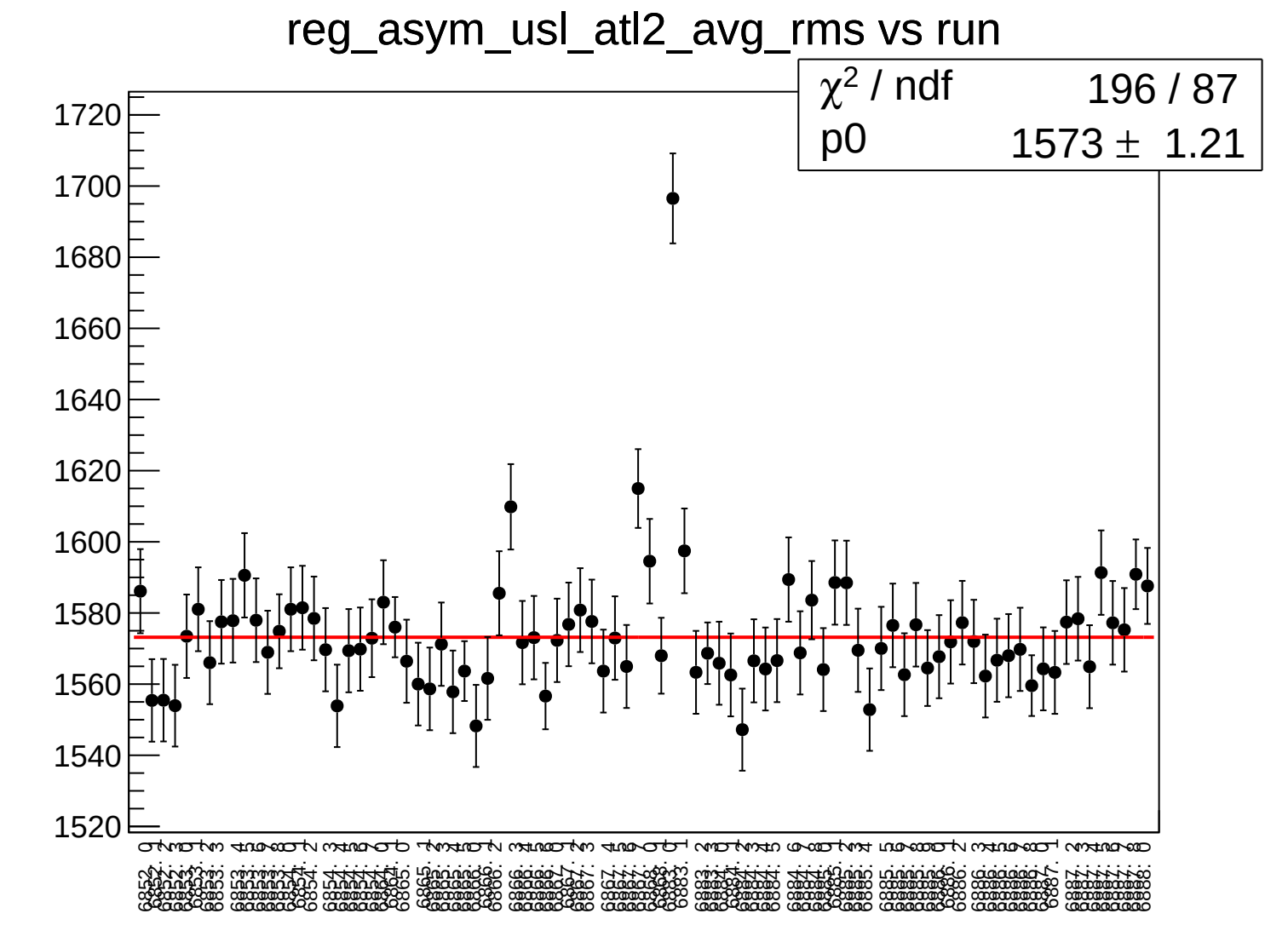

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.571e+05 / 87
p0 19.14 ± 0.01598
60
50
40
30
20
10

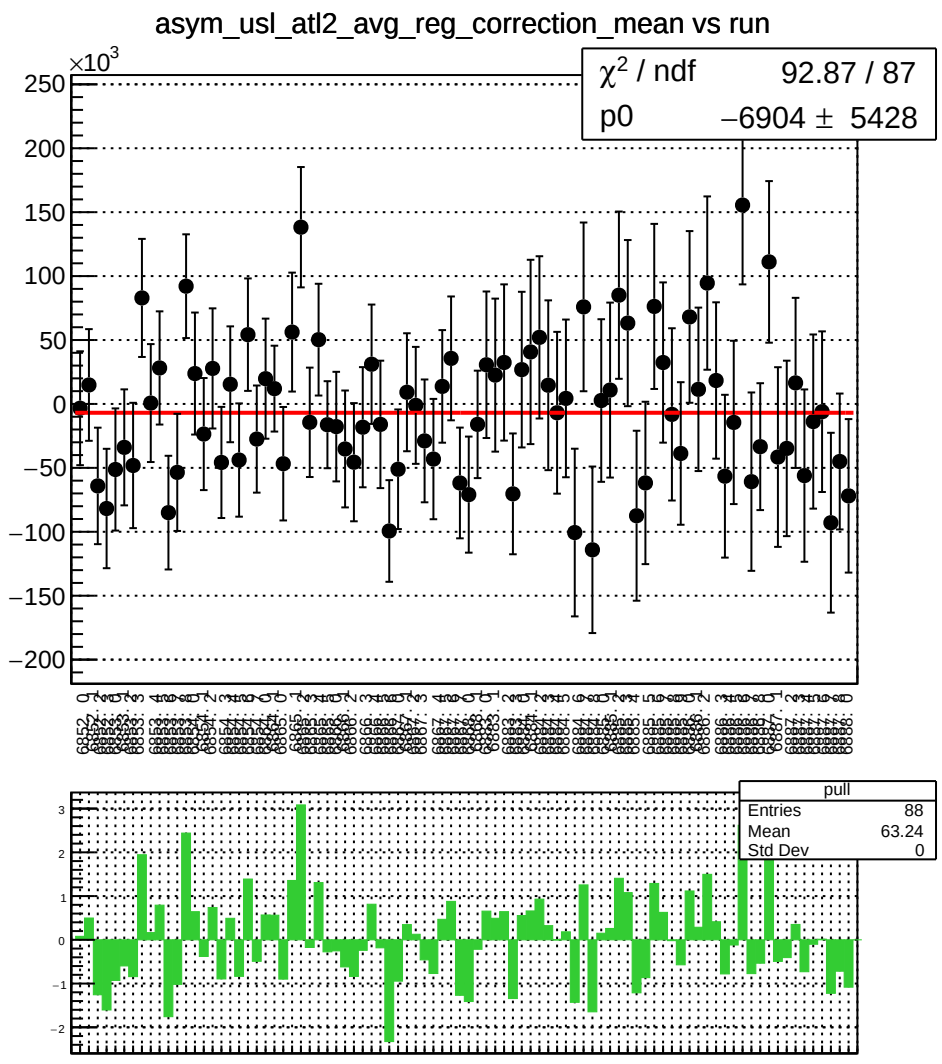

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.49 / 87
p0 8.57e−15 ± 1.728e−14
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull
Entries 88
Mean 317.8
Std Dev 0
3
2
1
0
−1
−2

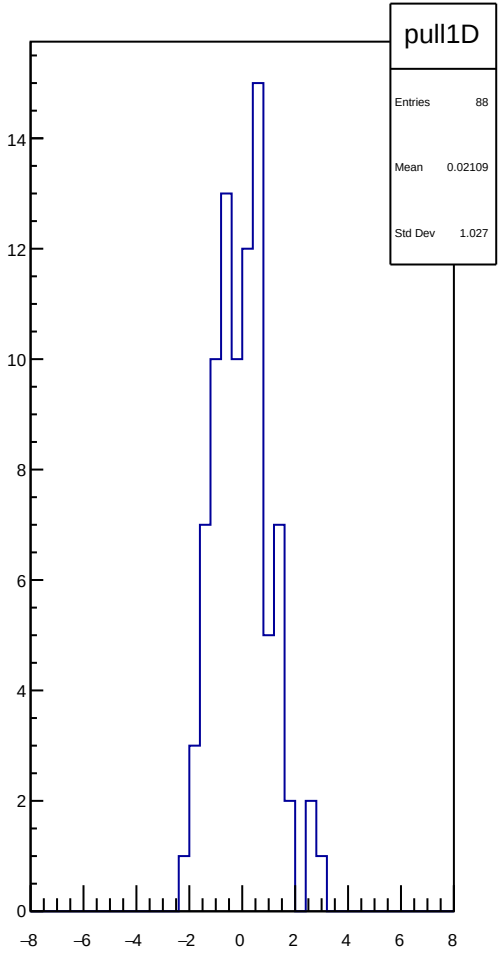

pull1D
Entries 88
Mean −0.01099
Std Dev 0.9504
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

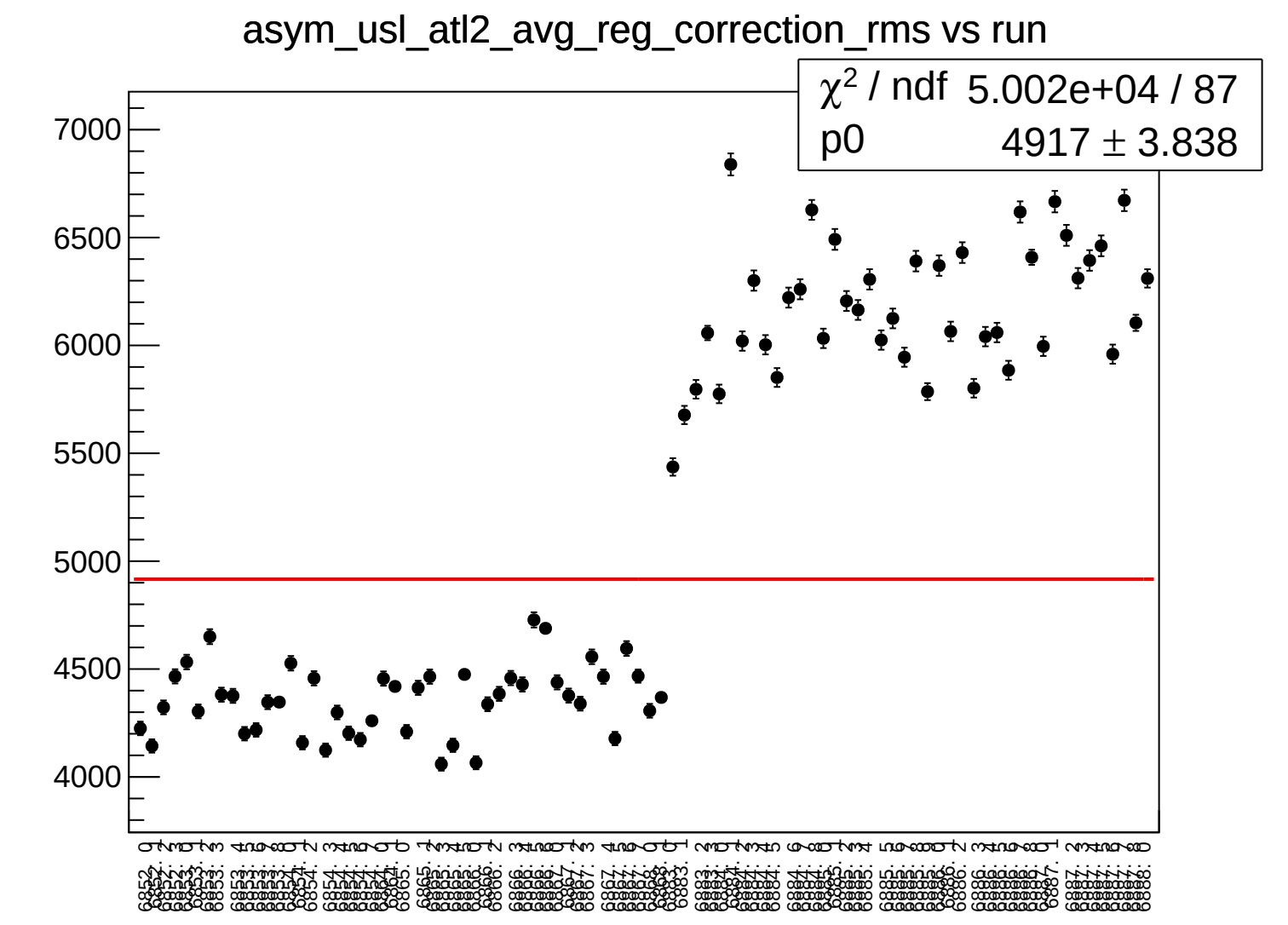

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.741e+05 / 87
p0 1.348e−11 ± 1.222e−14
0.1
0.08
0.06
0.04
0.02

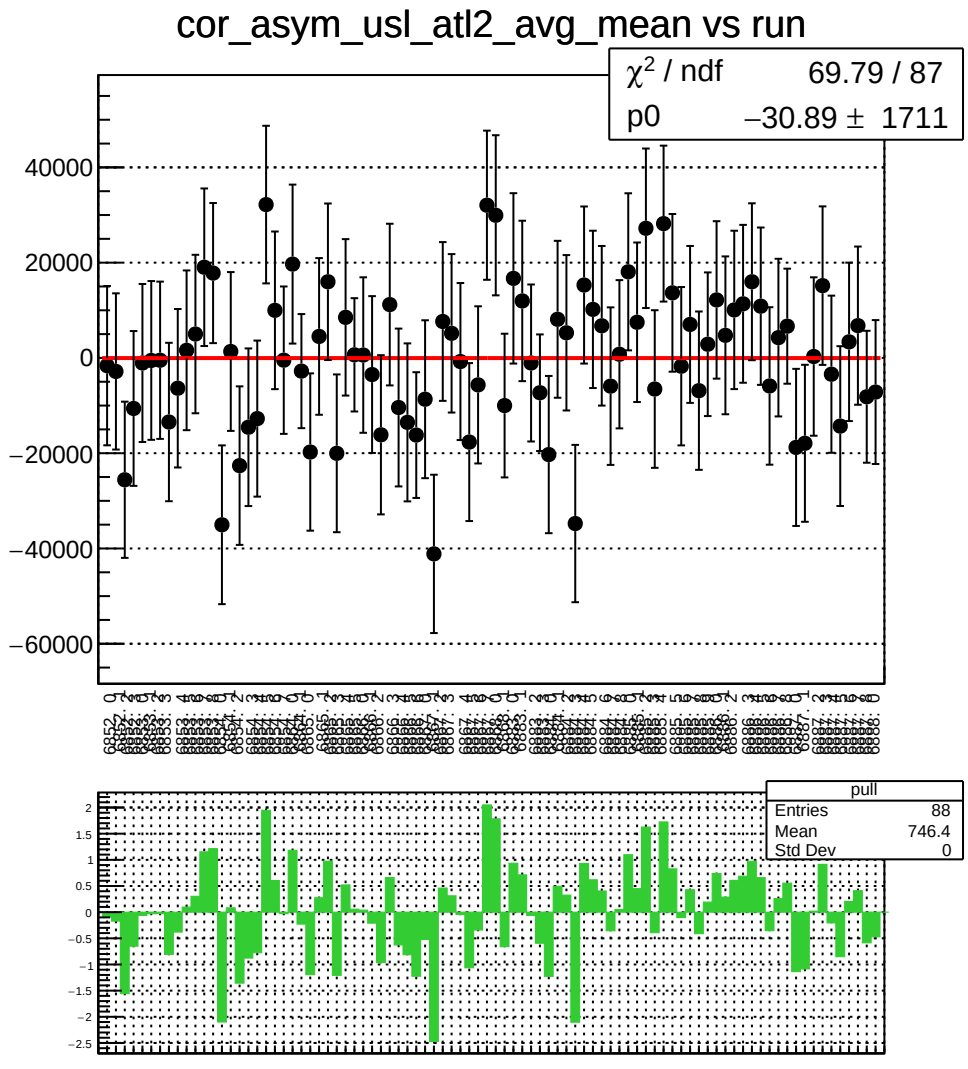

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 69.79 / 87
p0 −30.62 ± 1711
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 746.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean 0.004887
Std Dev 0.8905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

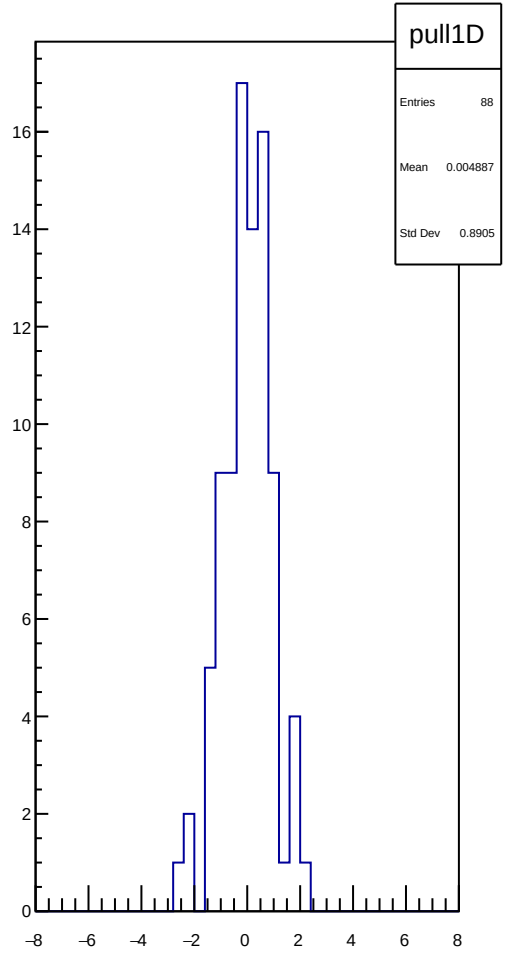

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 196 / 87
p0 1573 ± 1.21
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

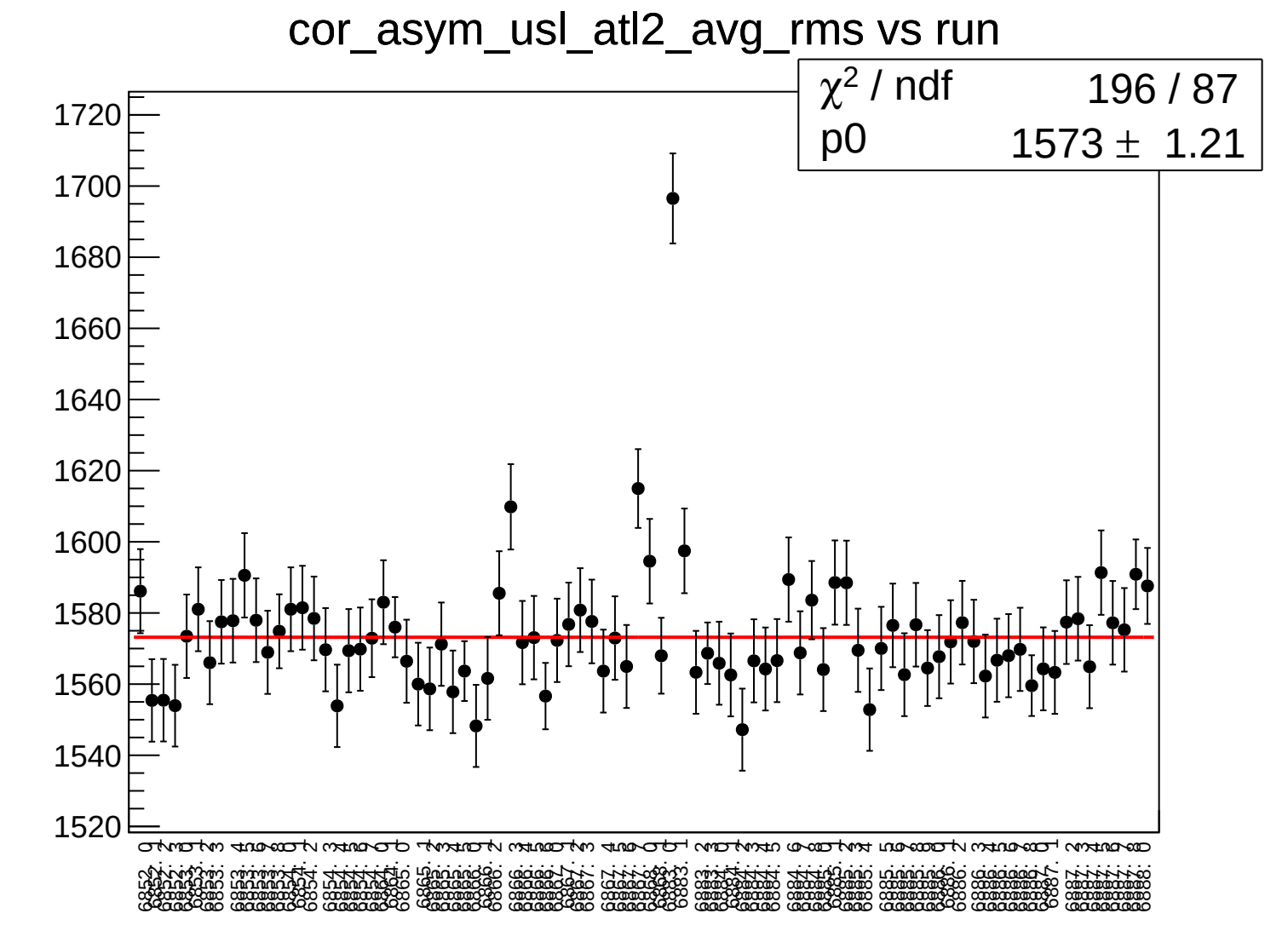

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 92.87 / 87
p0 −6904 ± 5428
pull
Entries 88
Mean 63.24
Std Dev 0

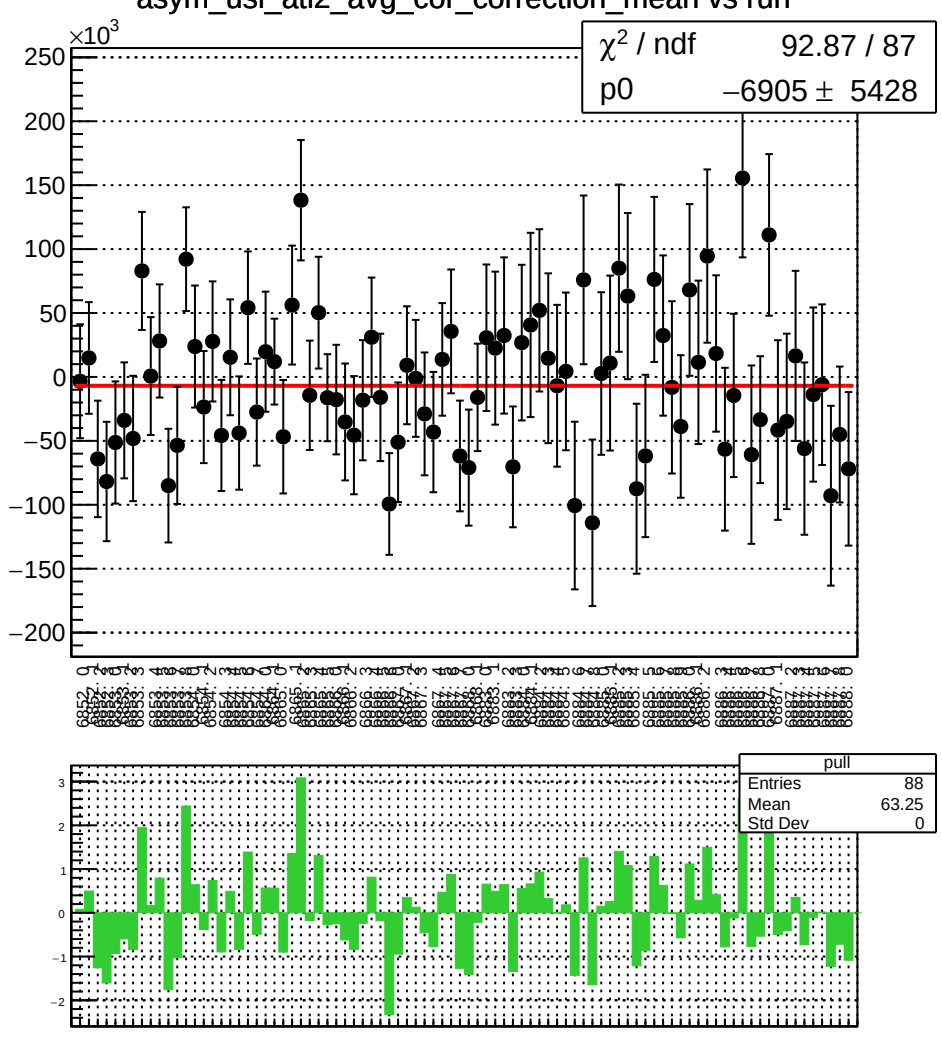

pull1D
Entries 88
Mean 0.02109
Std Dev 1.027

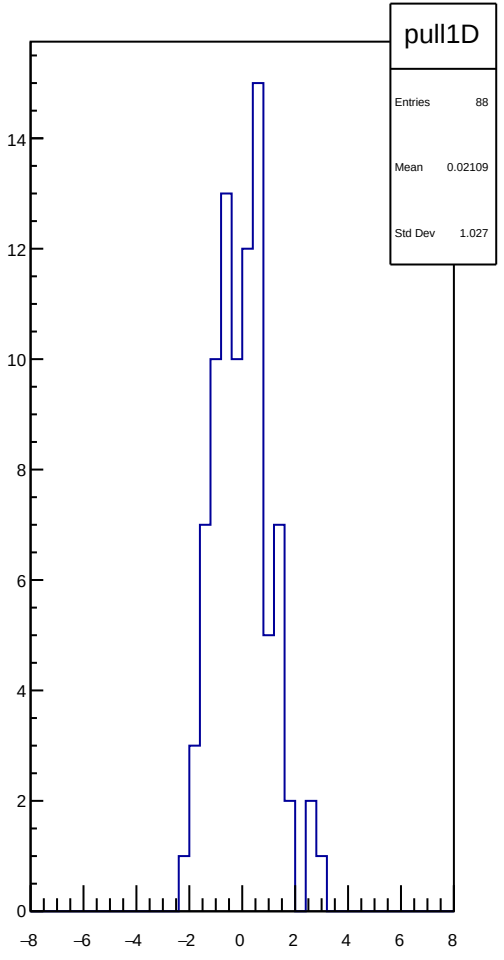

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 5.002e+04 / 87
p0 4917 ± 3.838
7000
6500
6000
5500
5000
4500
4000

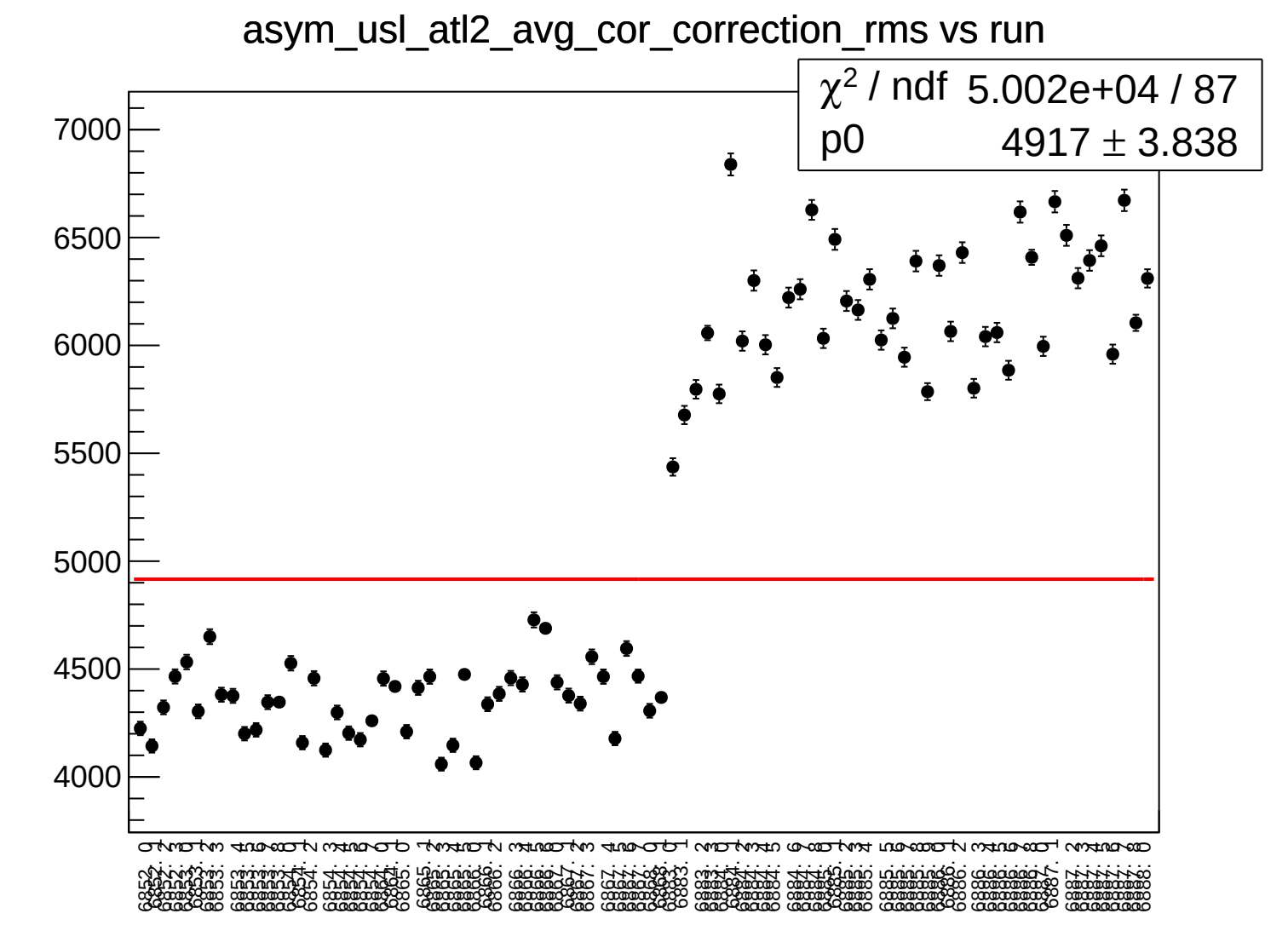

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 69.79 / 87
p0 −30.89 ± 1711
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 746.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

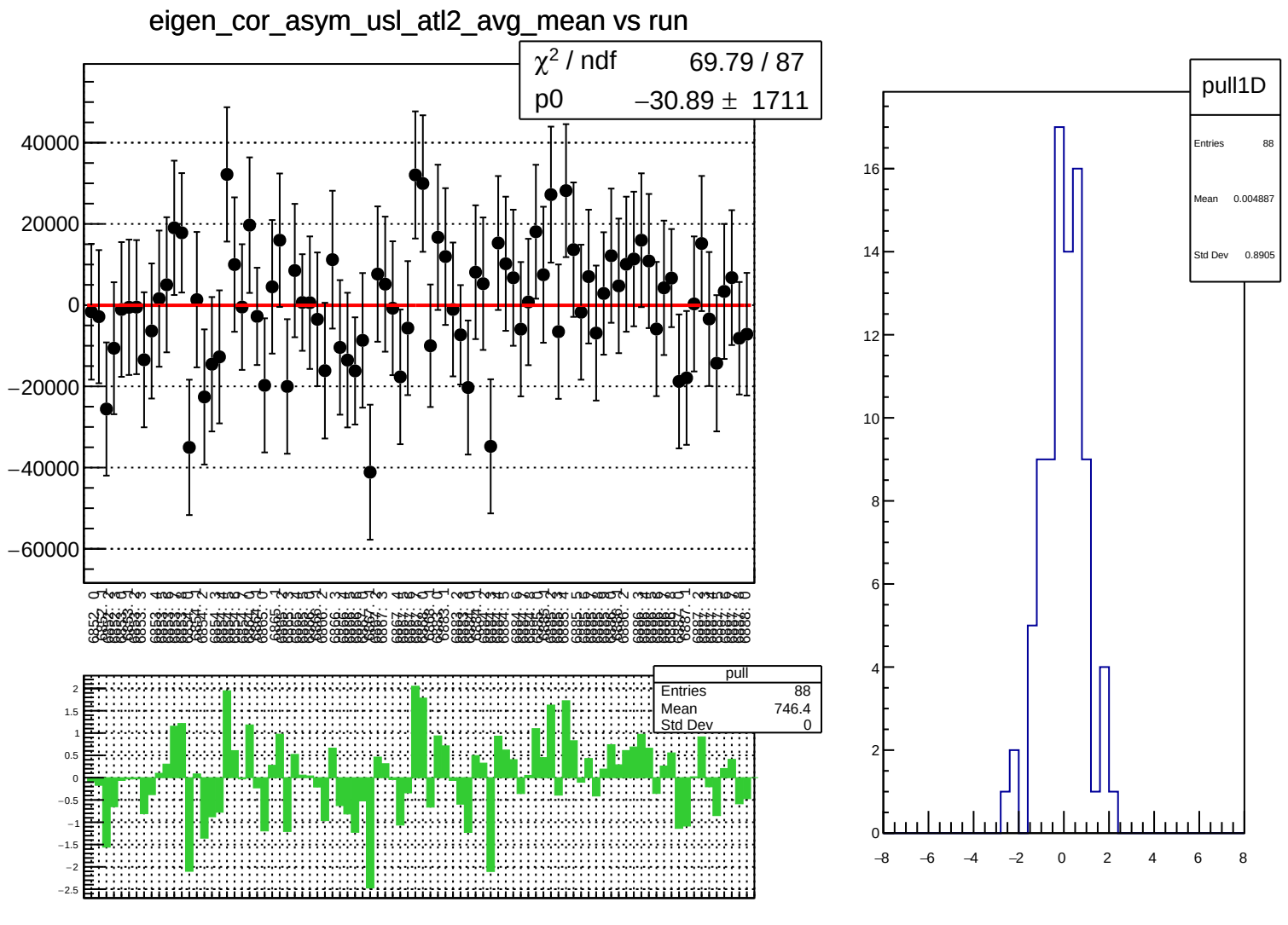

pull1D
Entries 88
Mean 0.004887
Std Dev 0.8905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

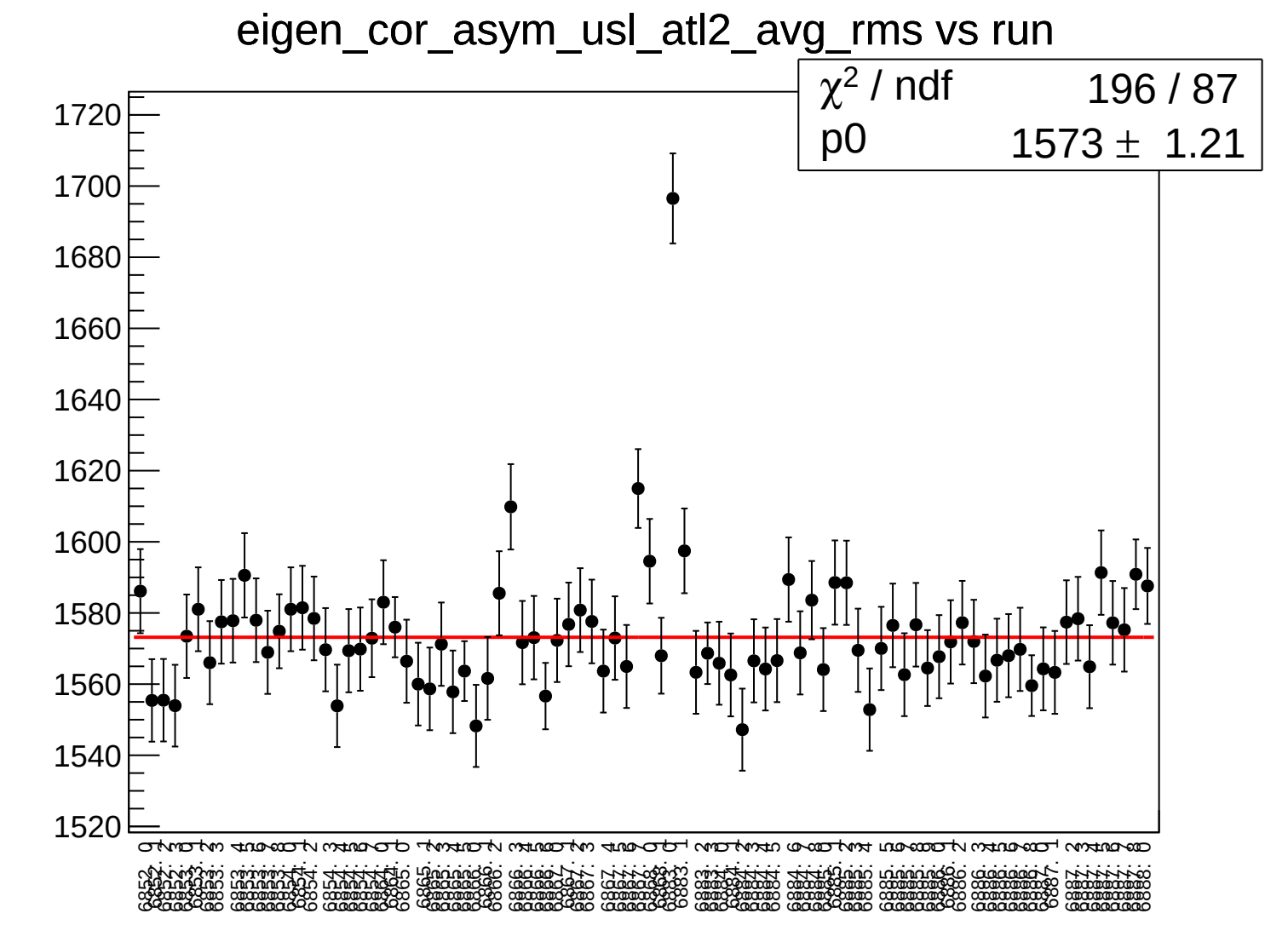

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 196 / 87
p0 1573 ± 1.21
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

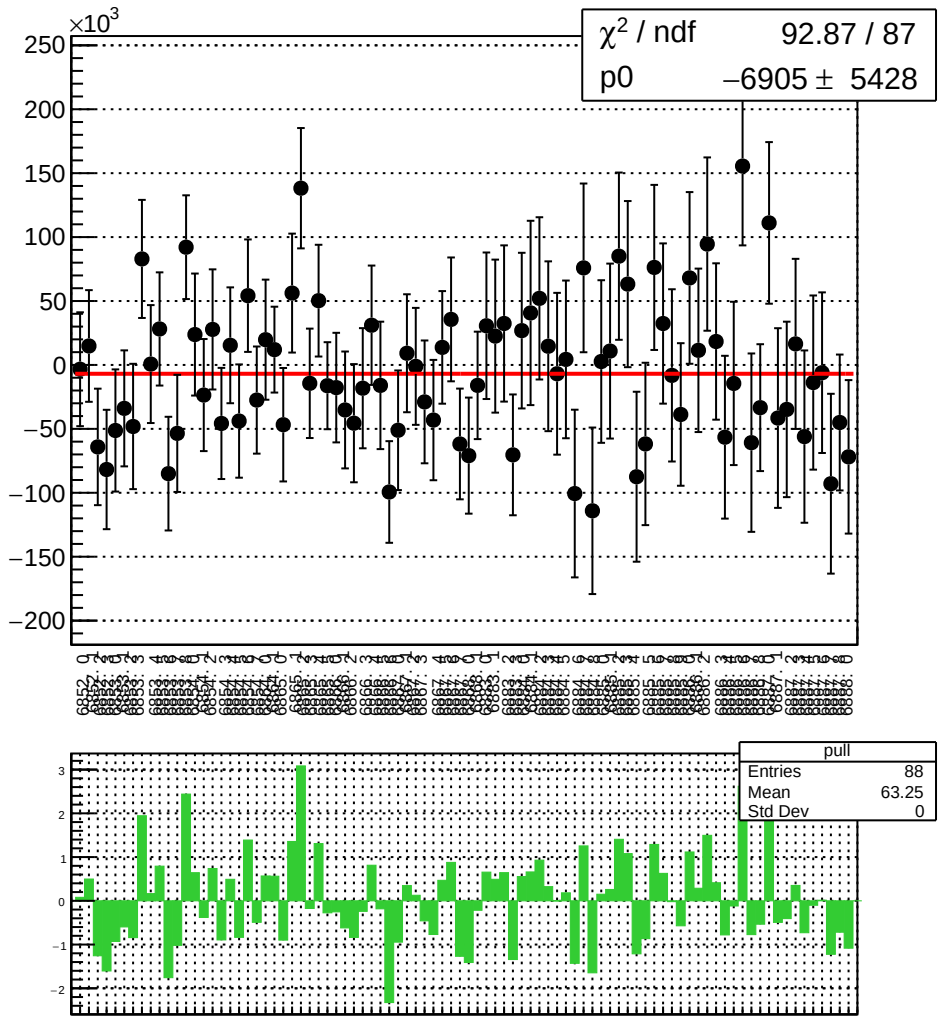

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 92.87 / 87
p0 −6905 ± 5428
pull
Entries 88
Mean 63.25
Std Dev 0

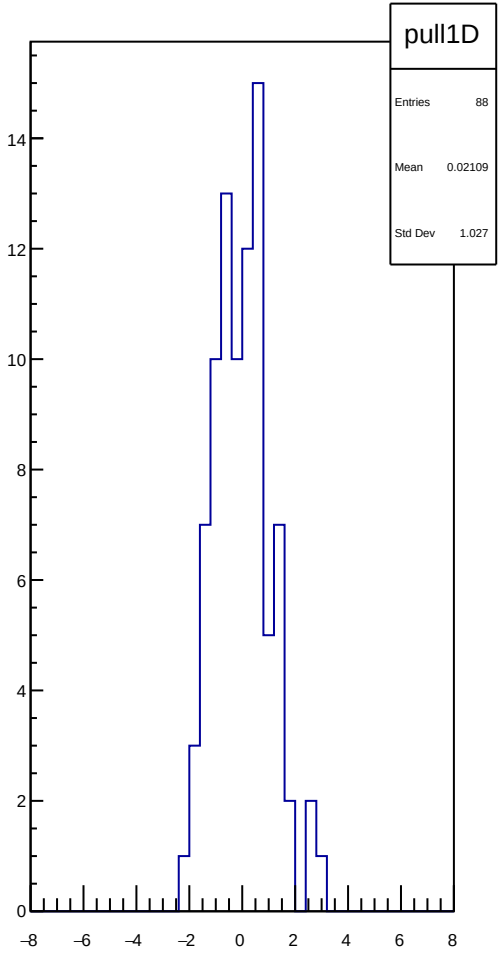

pull1D
Entries 88
Mean 0.02109
Std Dev 1.027

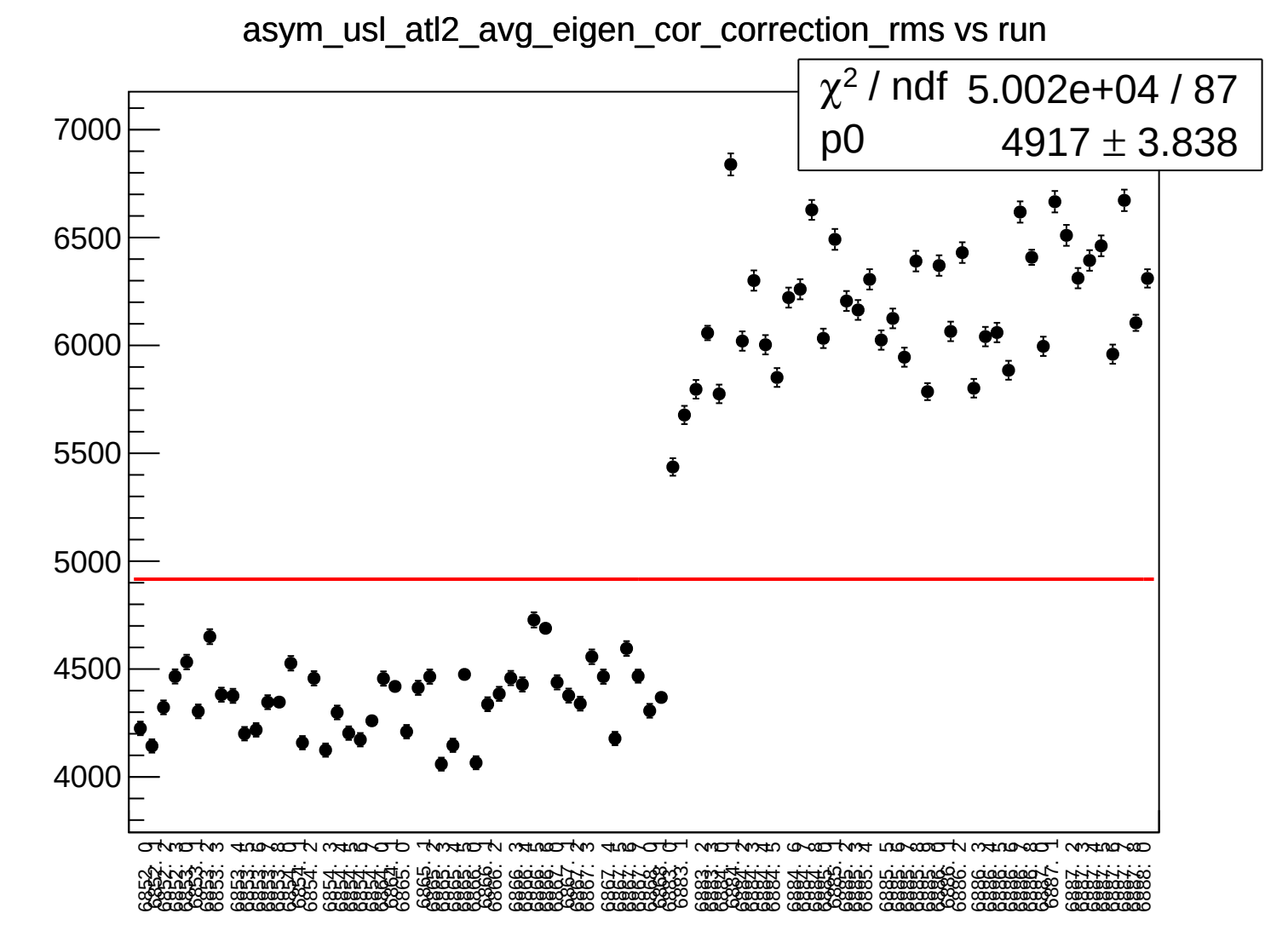

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 5.002e+04 / 87
p0 4917 ± 3.838
7000
6500
6000
5500
5000
4500
4000

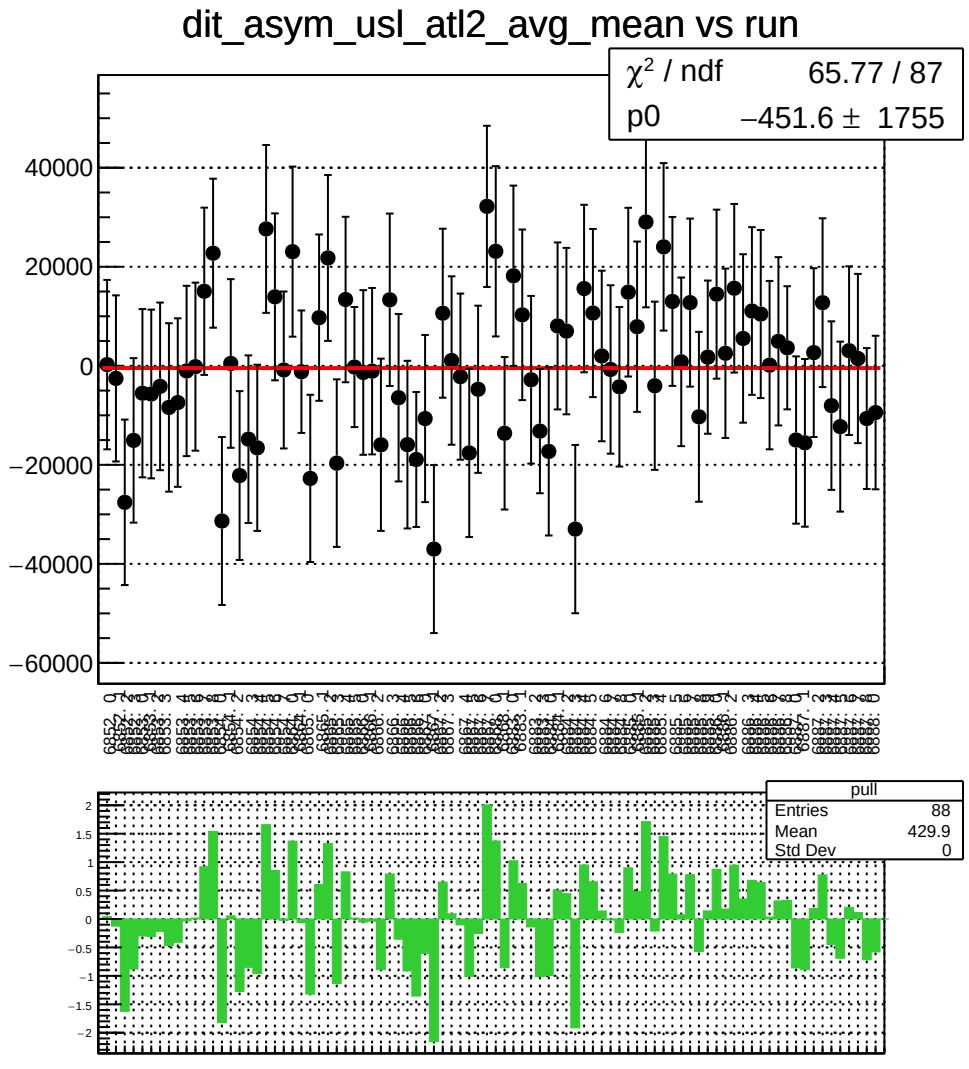

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 69.79 / 87
p0 −30.89 ± 1711
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 746.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean 0.004887
Std Dev 0.8905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

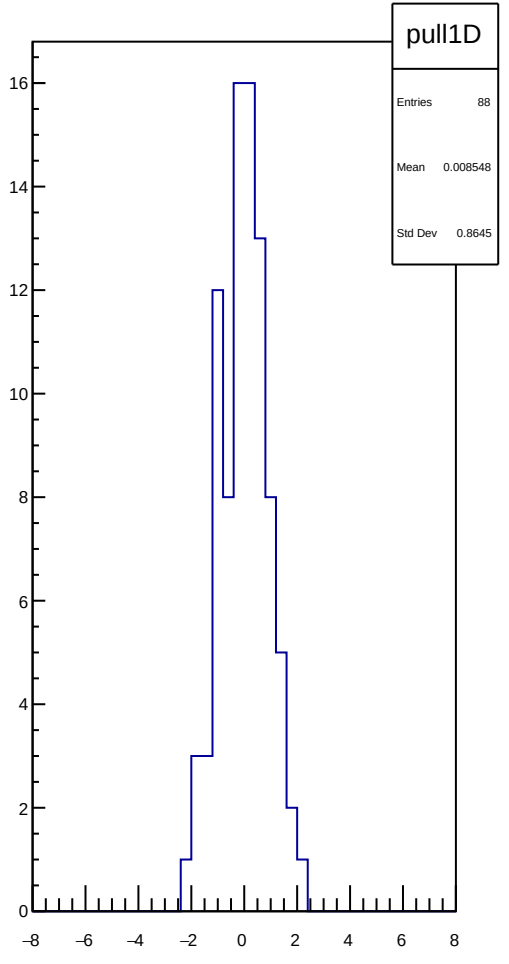

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 196 / 87
p0 1573 ± 1.21
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540
1520

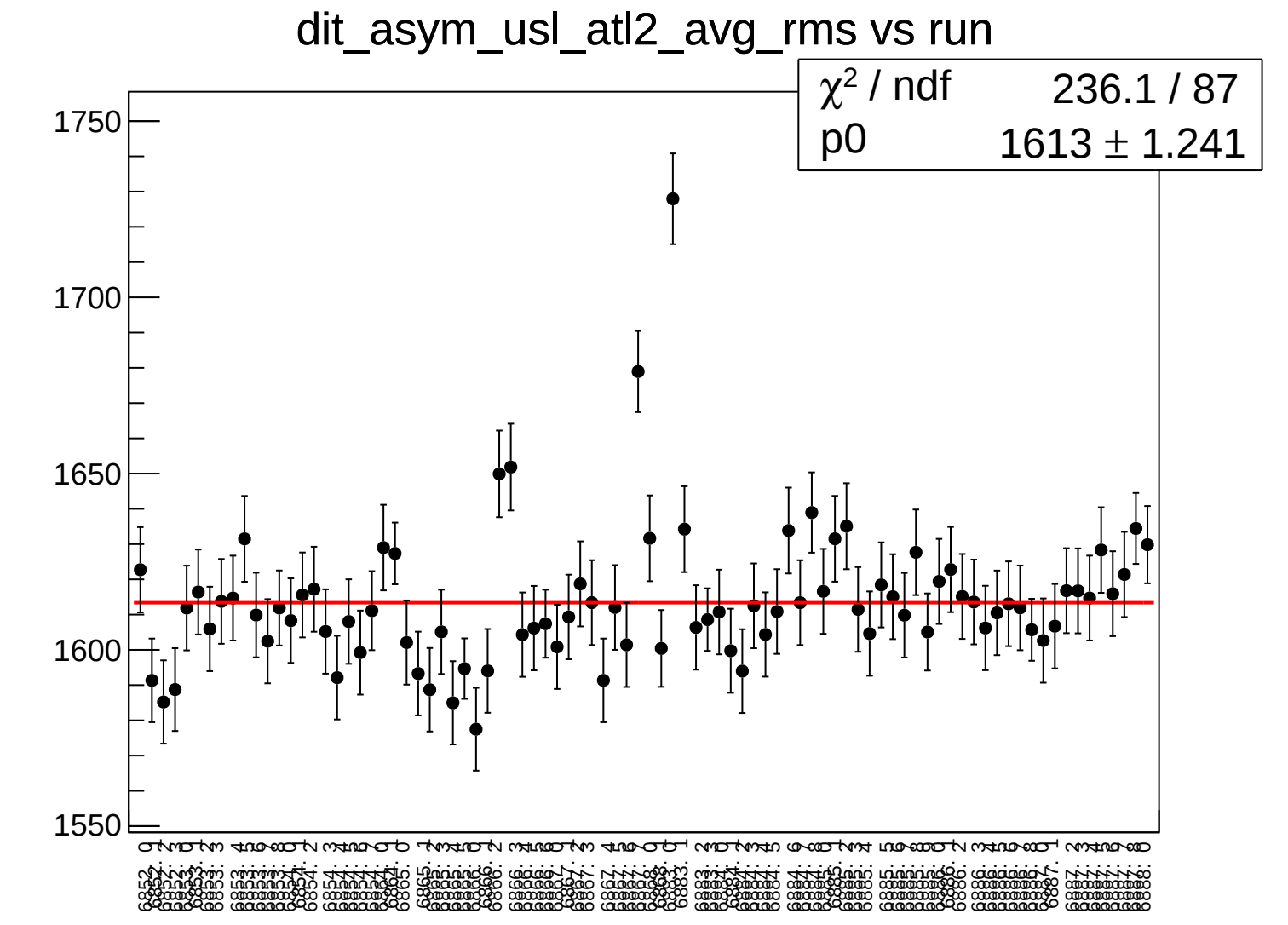

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.87 / 87
p0 −6905 ± 5428
pull
Entries 88
Mean 63.25
Std Dev 0

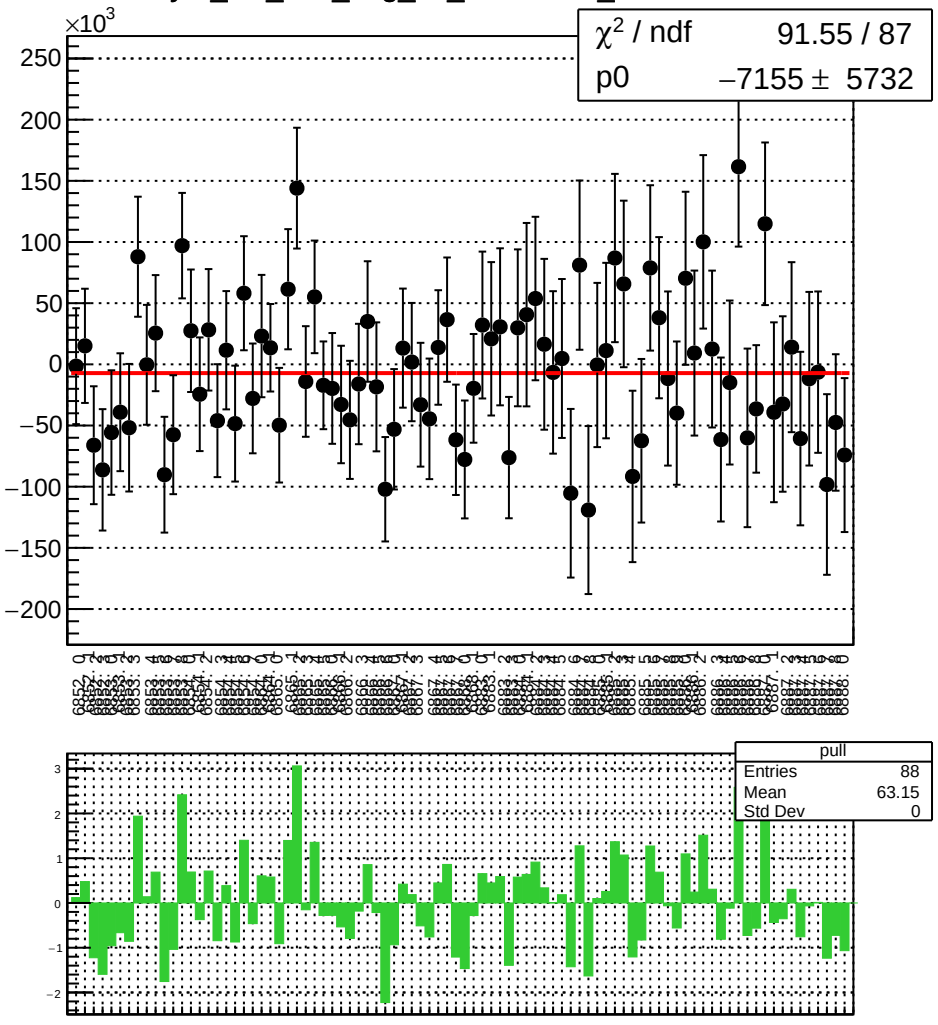

pull1D
Entries 88
Mean 0.02109
Std Dev 1.027

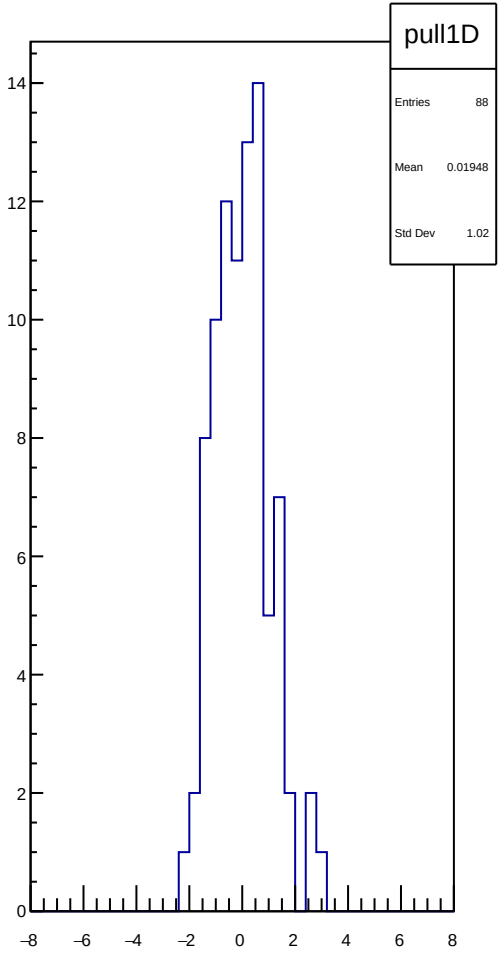

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.002e+04 / 87
p0 4917 ± 3.838
7000
6500
6000
5500
5000
4500
4000

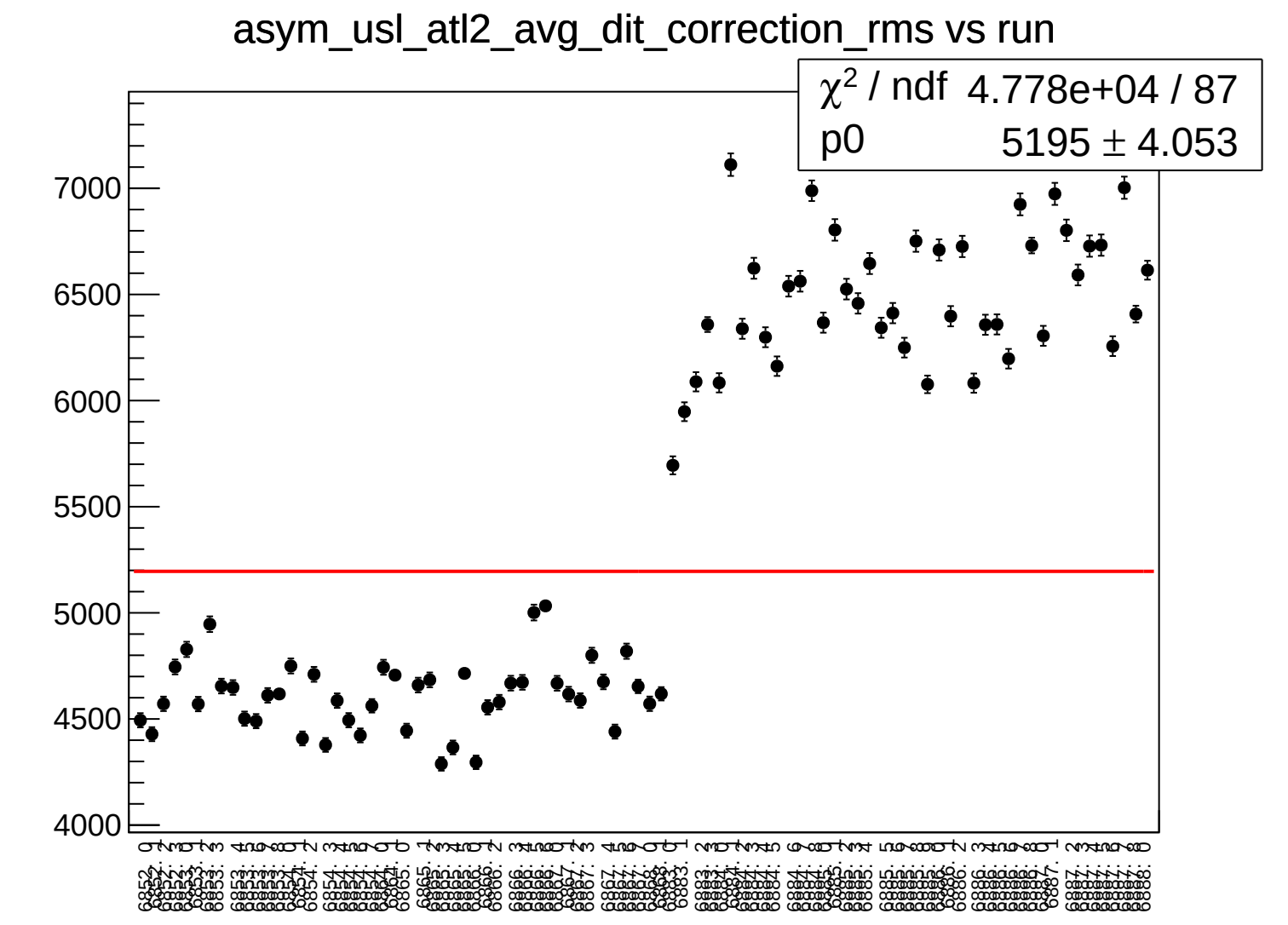

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 65.77 / 87
p0 −451.6 ± 1755
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 429.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

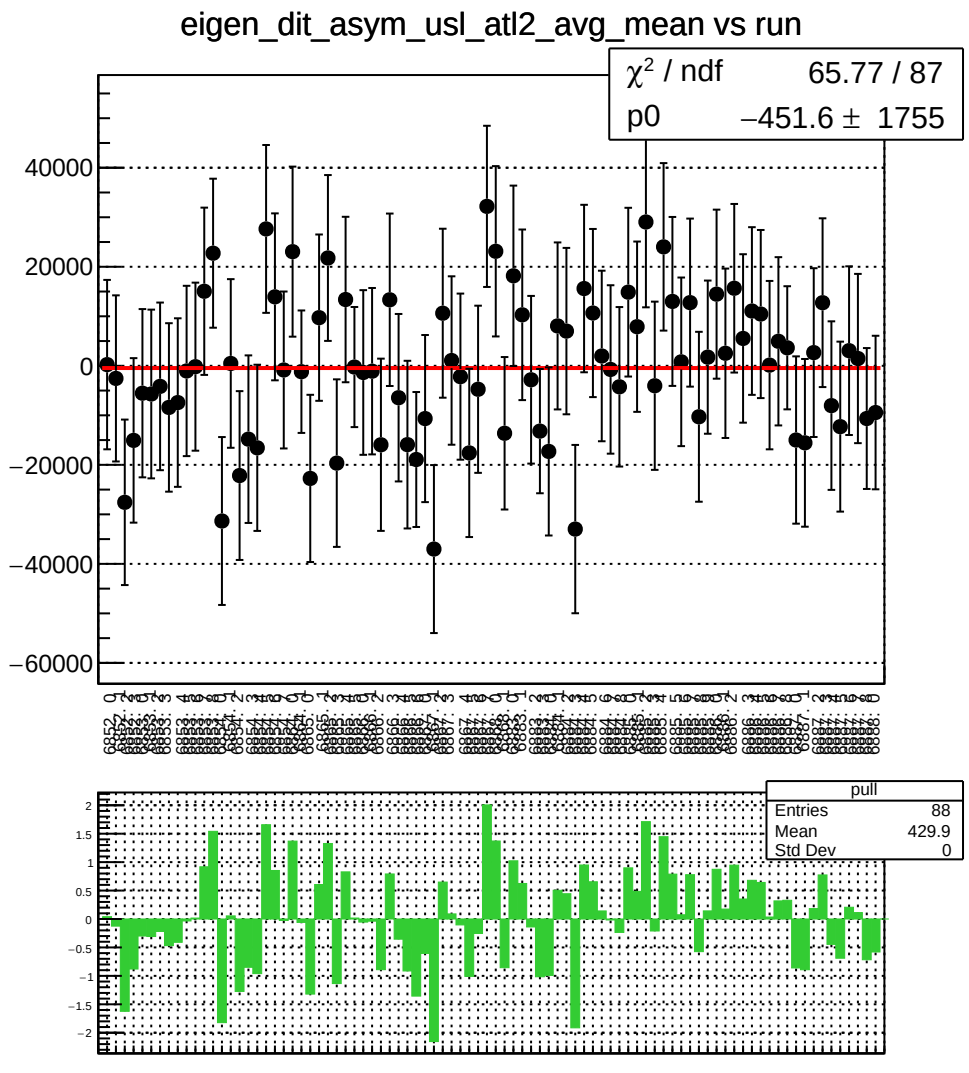

pull1D
Entries 88
Mean 0.008548
Std Dev 0.8645
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

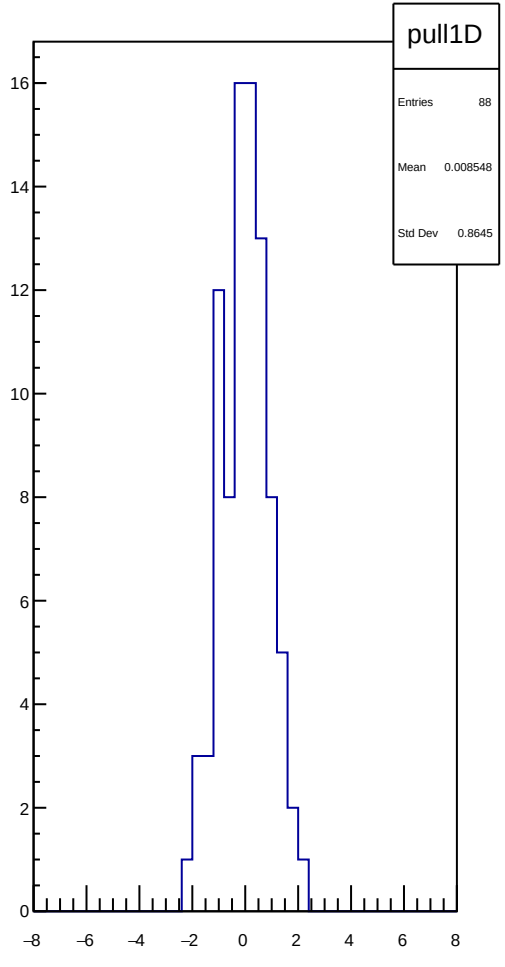

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 236.1 / 87
p0 1613 ± 1.241
1750
1700
1650
1600
1550

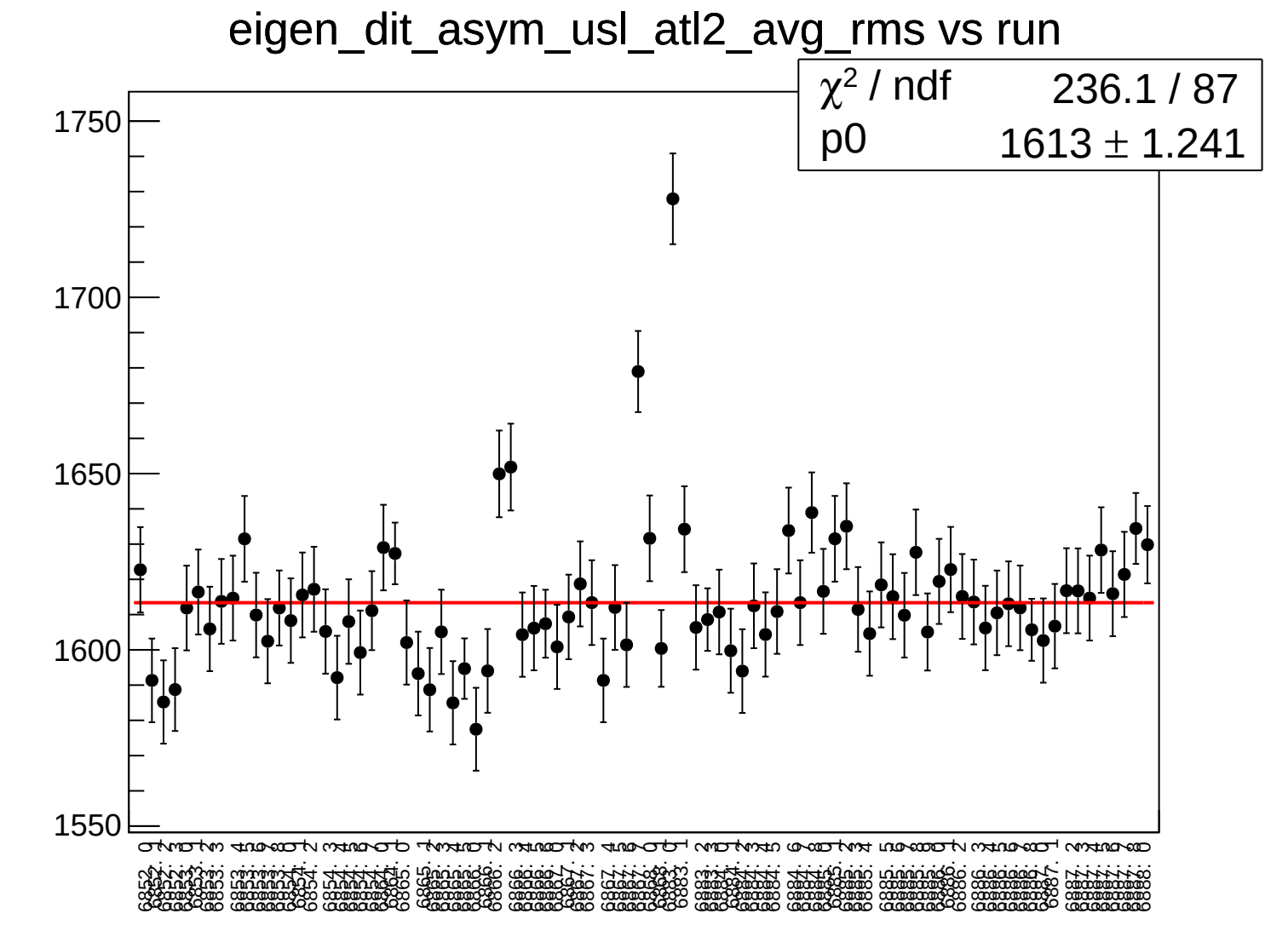

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91.55 / 87
p0 −7155 ± 5732
250
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 63.15
Std Dev 0
3
2
1
0
−1
−2

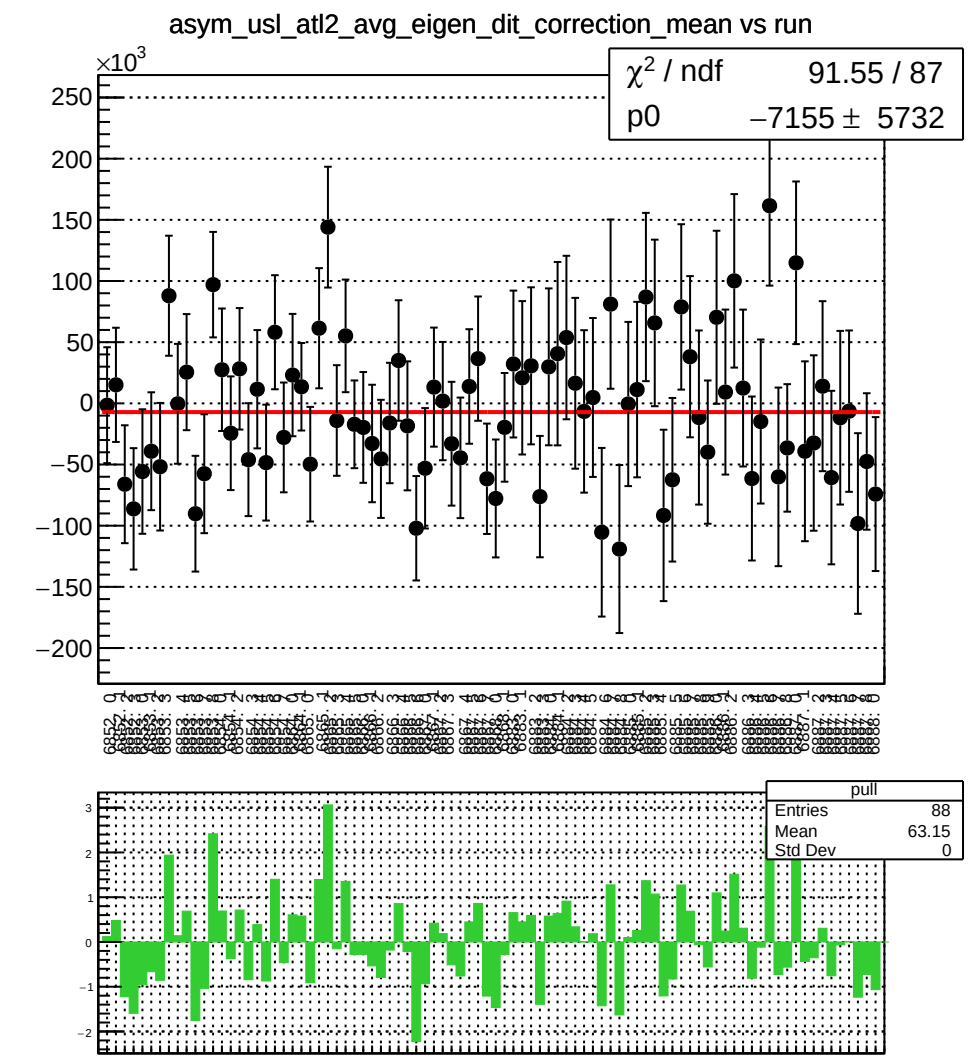

pull1D
Entries 88
Mean 0.01948
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

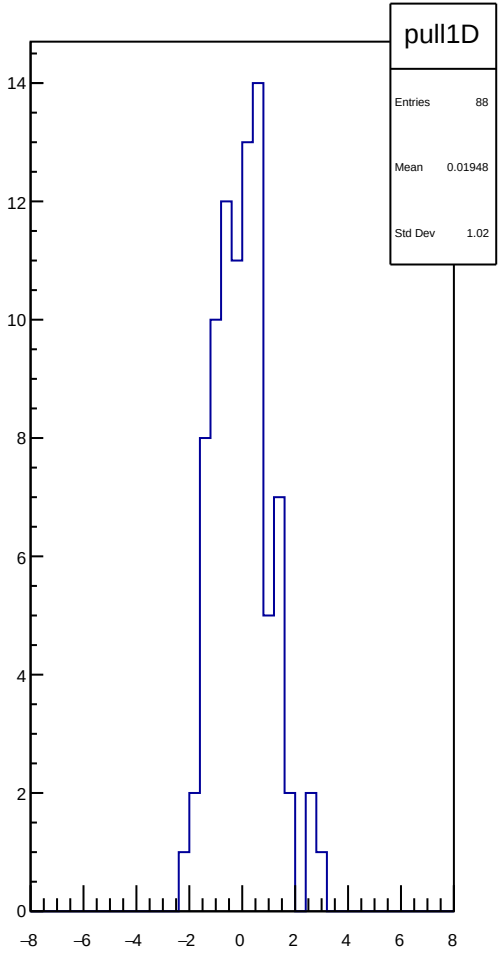

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 4.778e+04 / 87
p0 5195 ± 4.053
7000
6500
6000
5500
5000
4500
4000

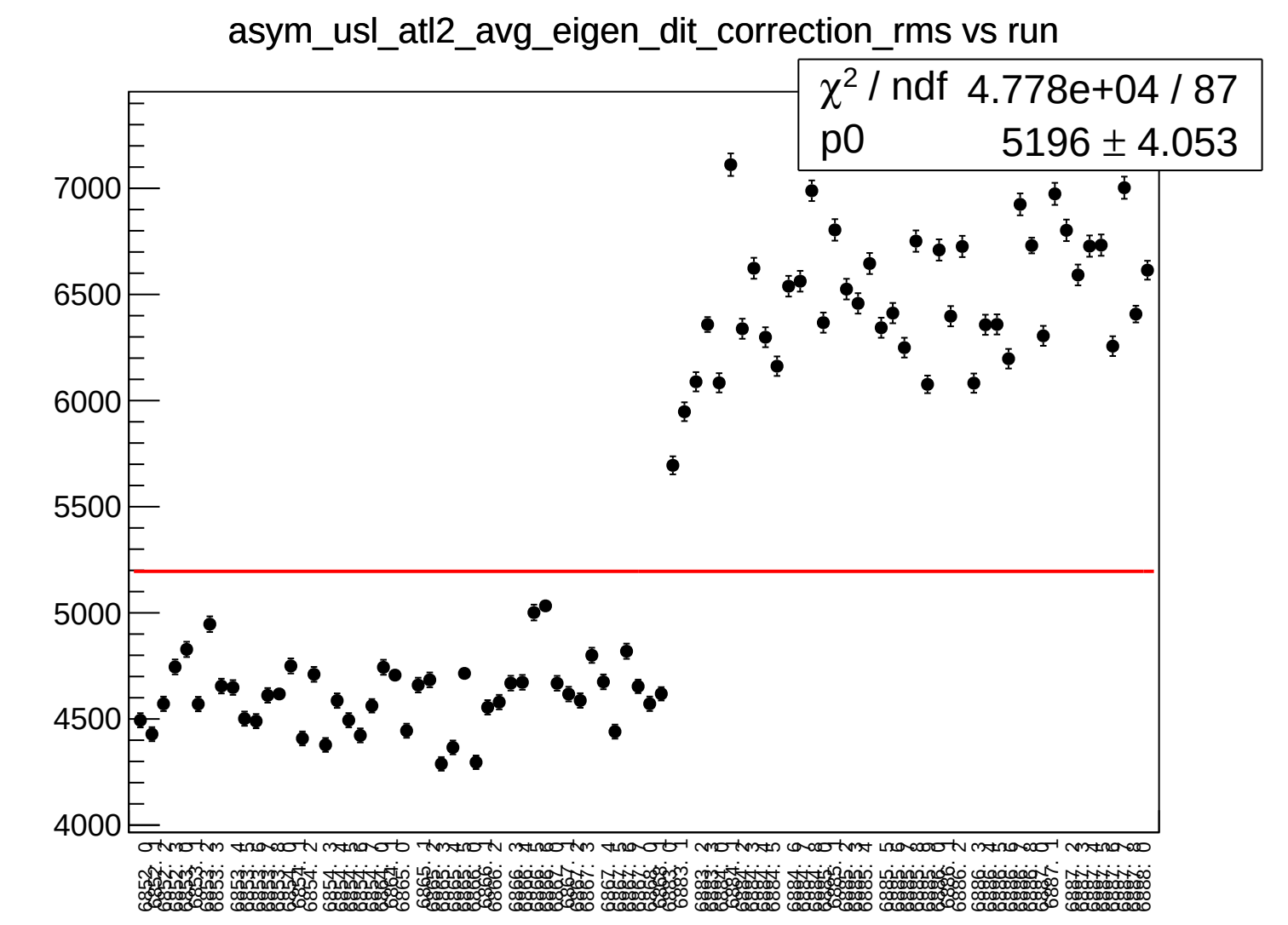

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 65.77 / 87
p0 −451.6 ± 1755
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 429.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

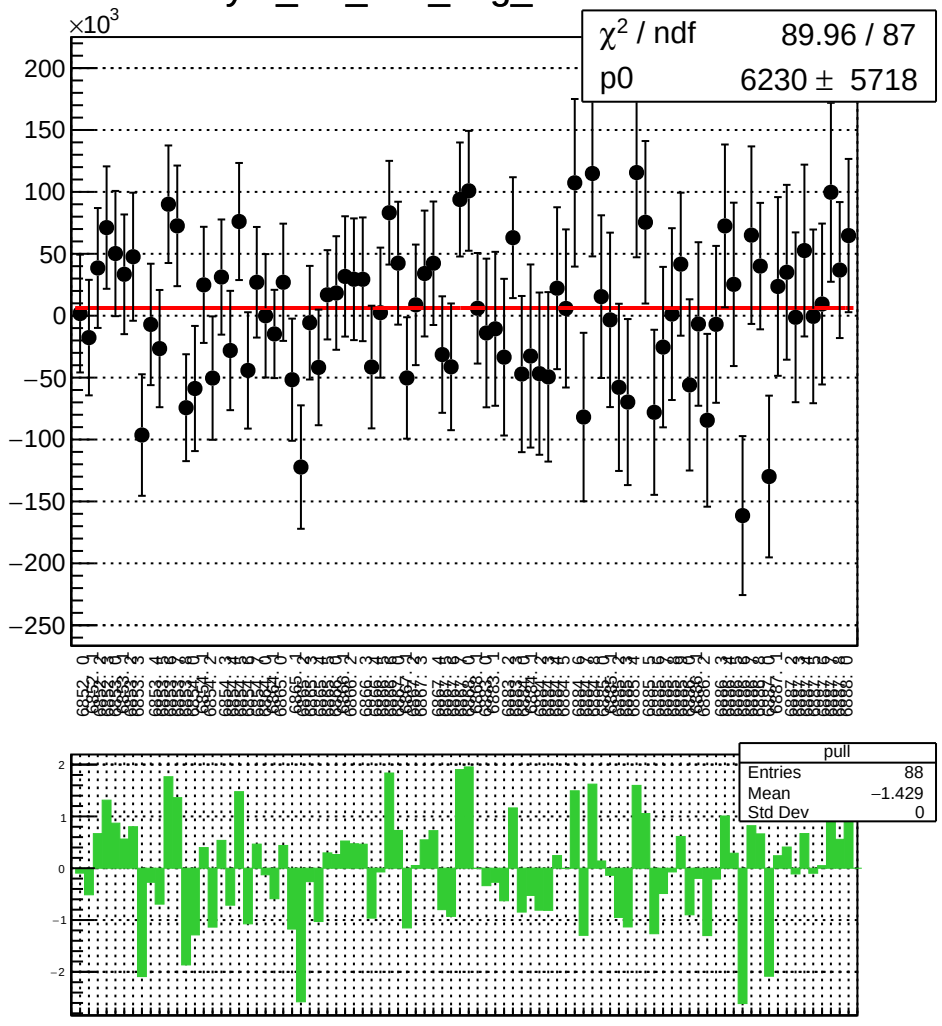

pull1D
Entries 88
Mean 0.008548
Std Dev 0.8645
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

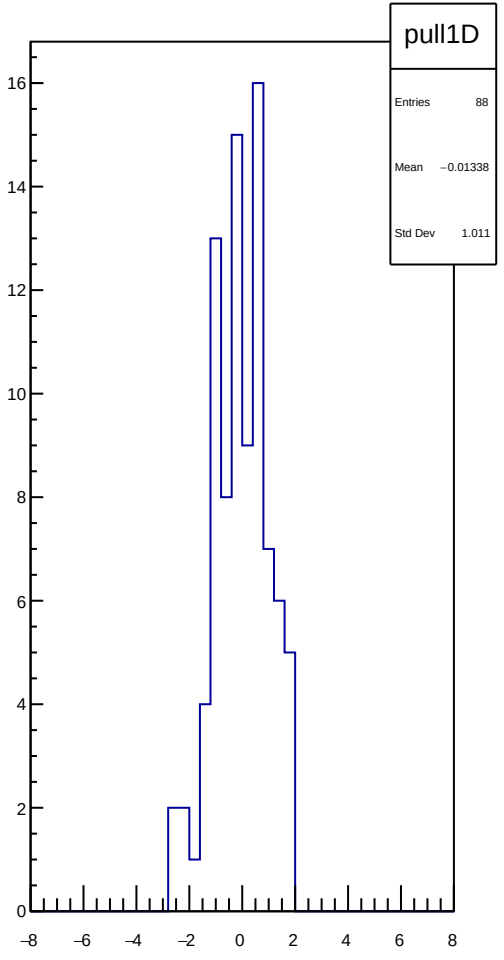

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 236.1 / 87
p0 1613 ± 1.241
1750
1700
1650
1600
1550

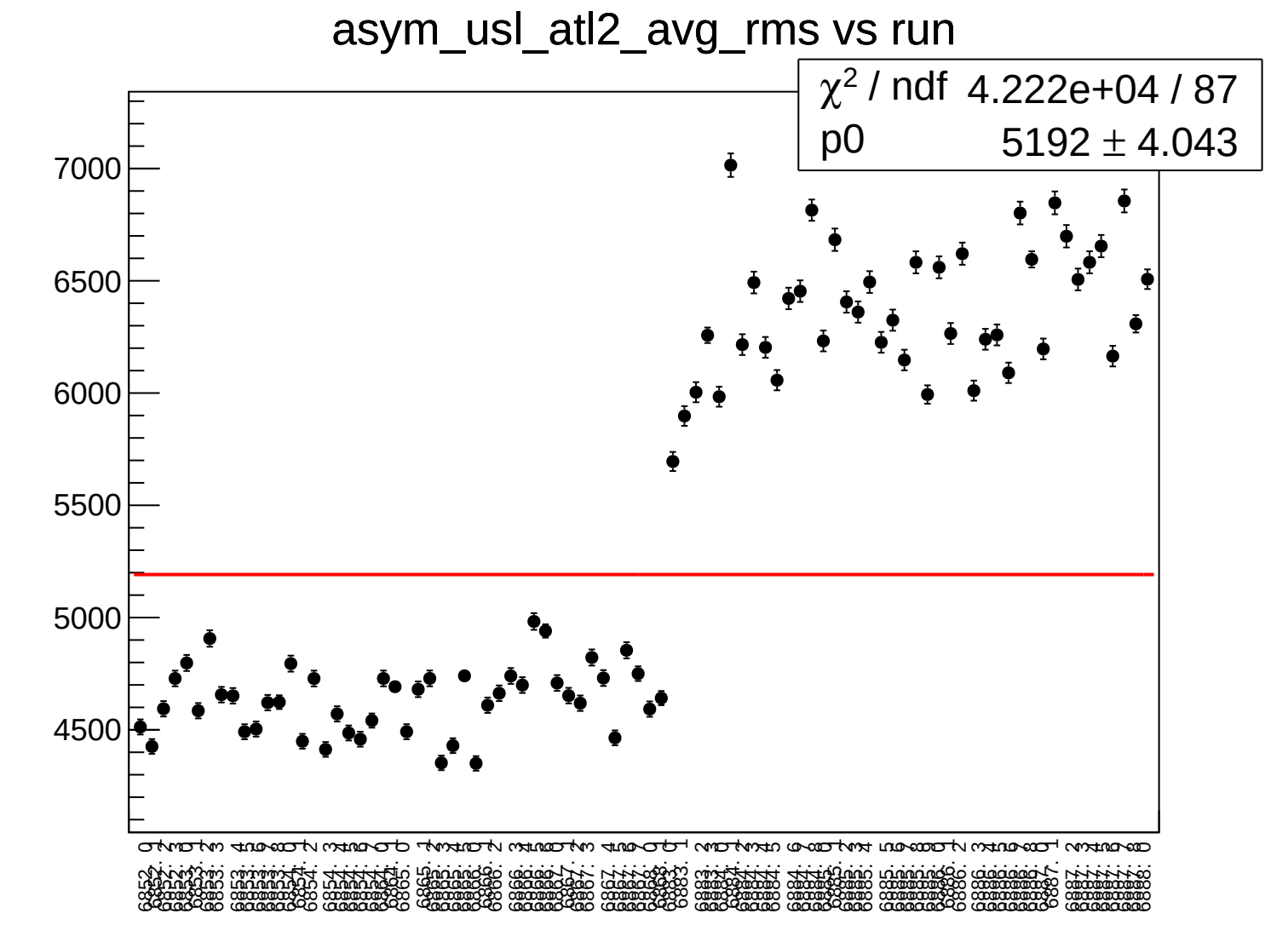

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.55 / 87
p0 −7155 ± 5732
250
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 63.15
Std Dev 0
3
2
1
0
−1
−2

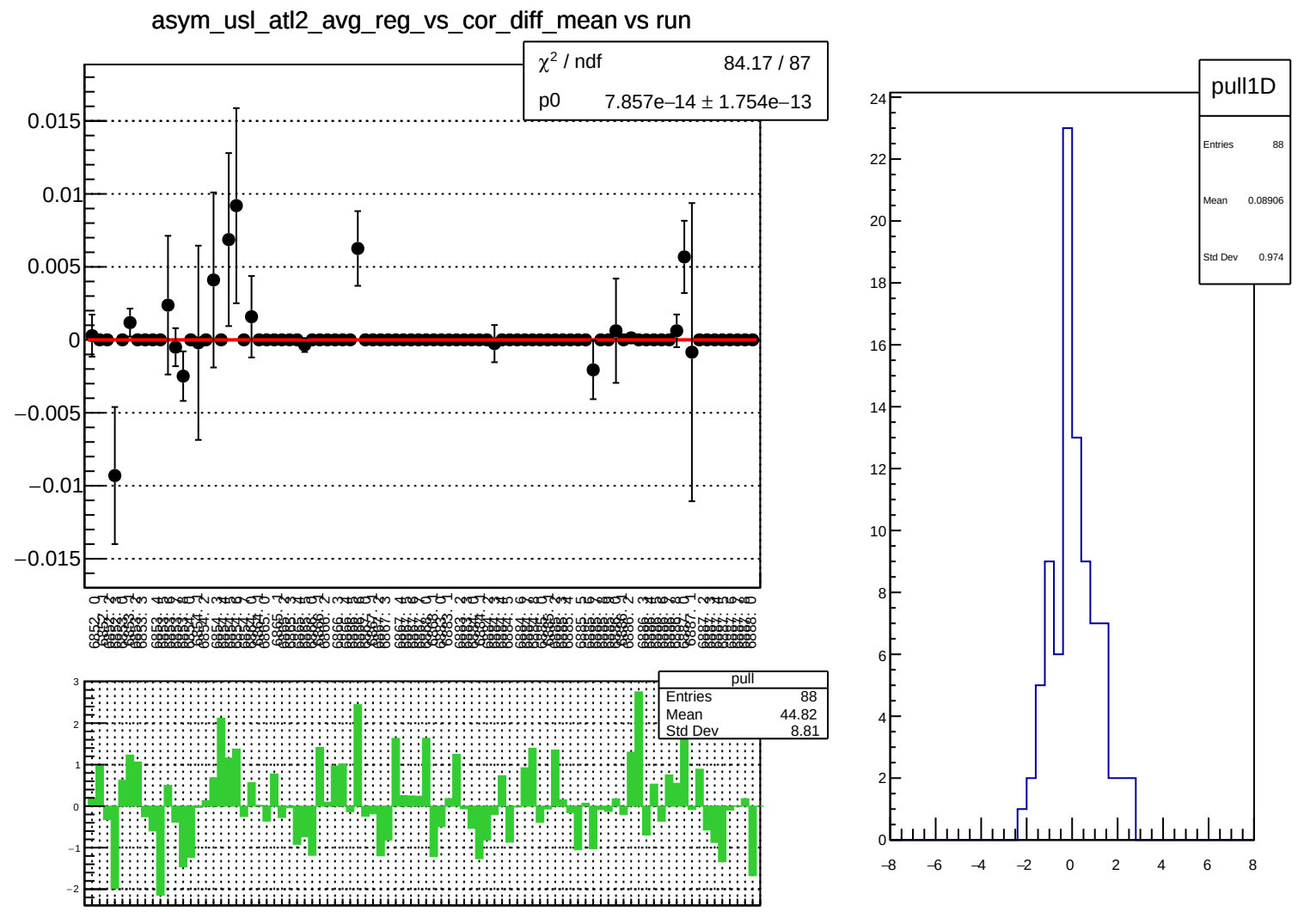

pull1D
Entries 88
Mean 0.01948
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

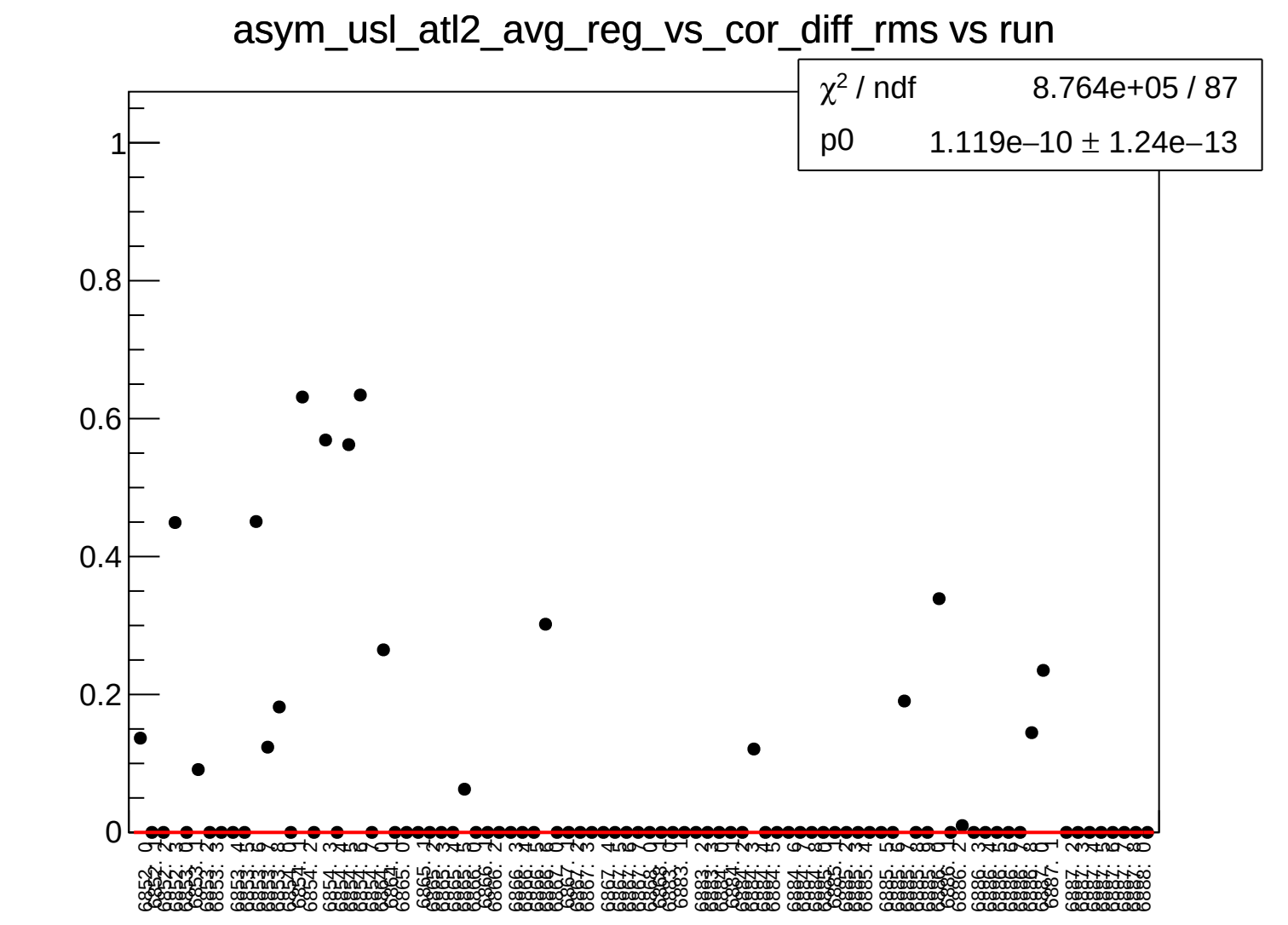

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.778e+04 / 87
p0 5196 ± 4.053
7000
6500
6000
5500
5000
4500
4000

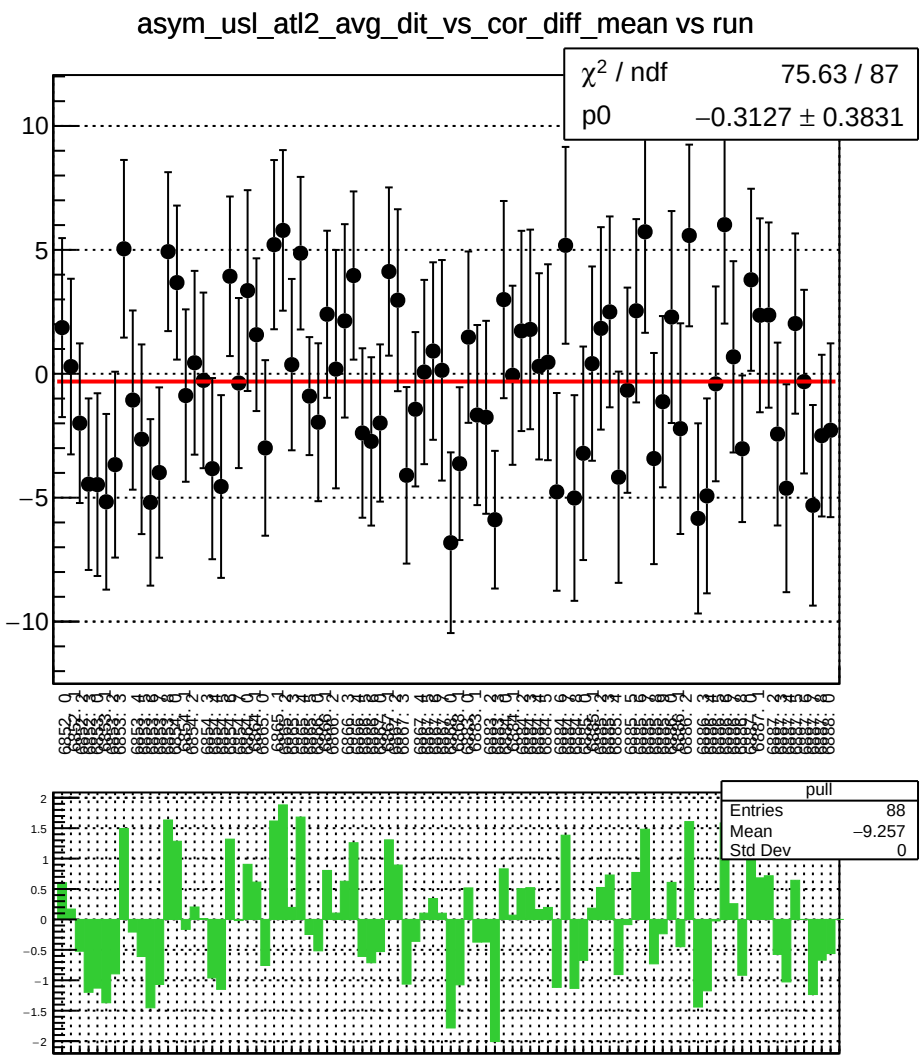

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 89.96 / 87
p0 6230 ± 5718
pull
Entries 88
Mean −1.429
Std Dev 0

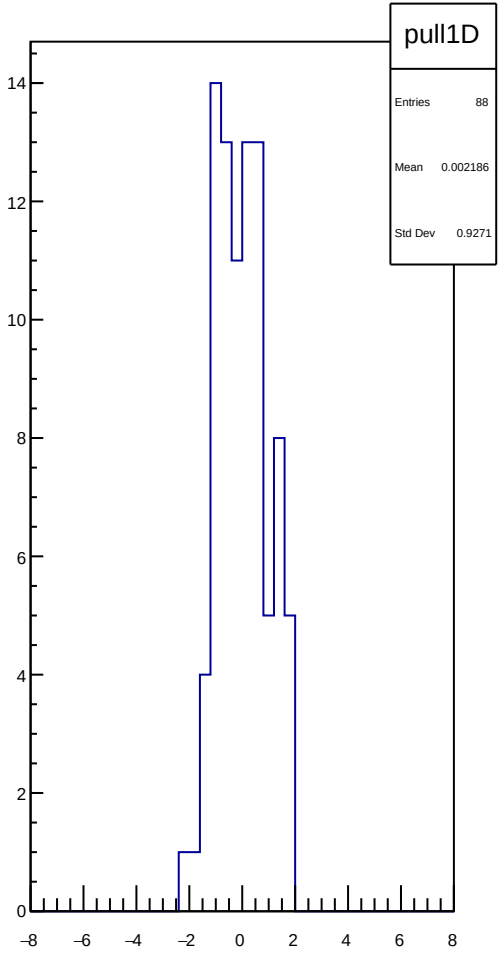

pull1D
Entries 88
Mean −0.01338
Std Dev 1.011

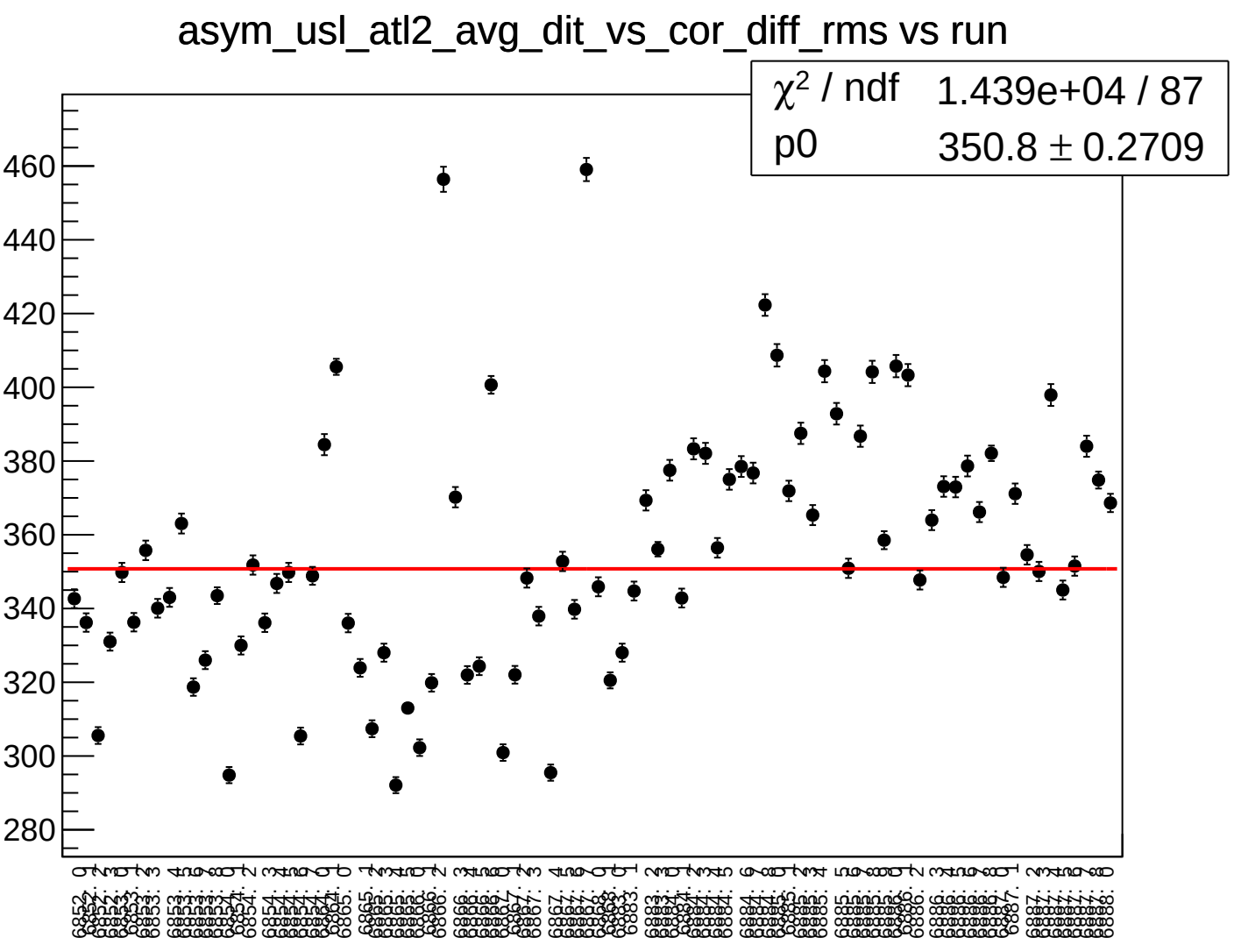

asym_usl_atl2_avg_rms vs run
χ² / ndf 4.222e+04 / 87
p0 5192 ± 4.043
7000
6500
6000
5500
5000
4500

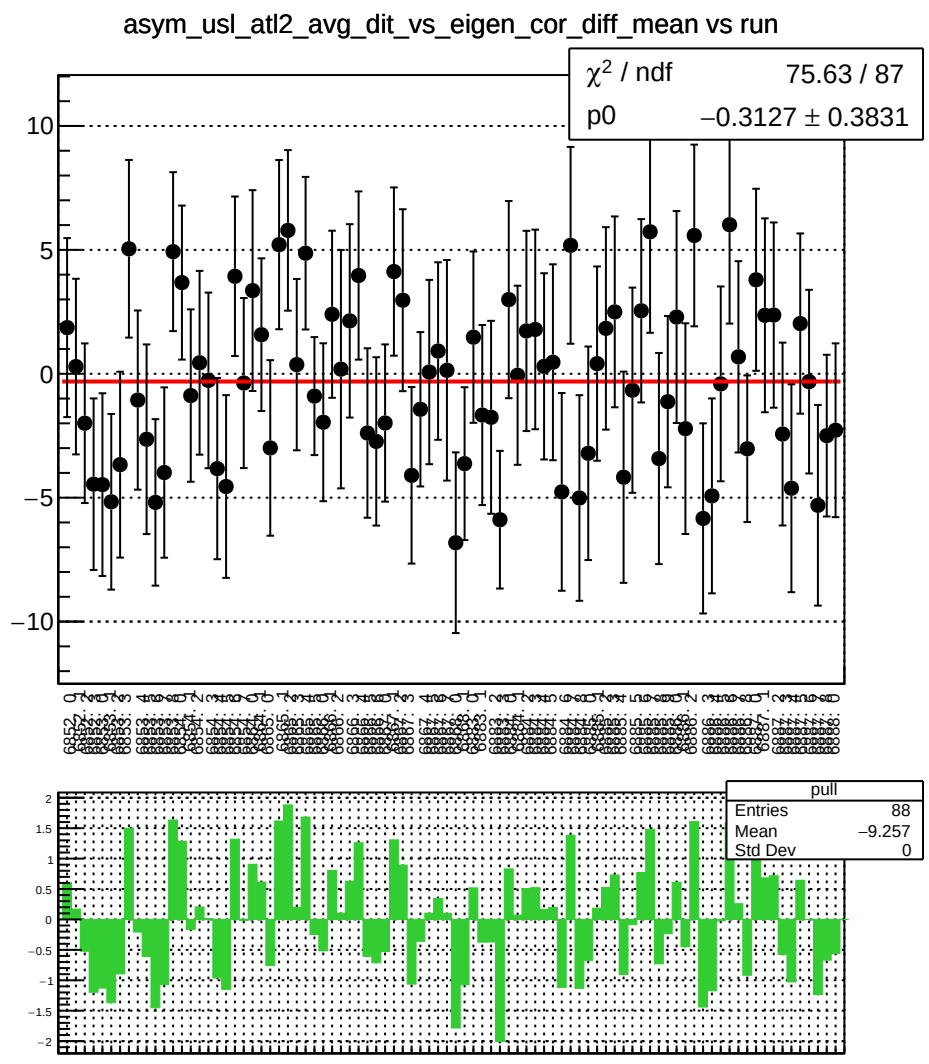

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.17 / 87
p0 7.857e−14 ± 1.754e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 44.82
Std Dev 8.81
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.08906
Std Dev 0.974
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

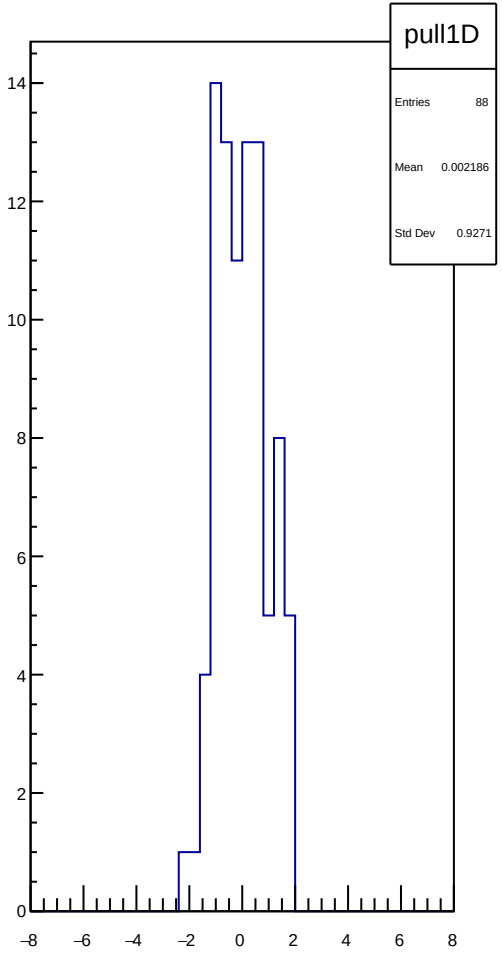

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.764e+05 / 87
p0 1.119e−10 ± 1.24e−13
1
0.8
0.6
0.4
0.2
0

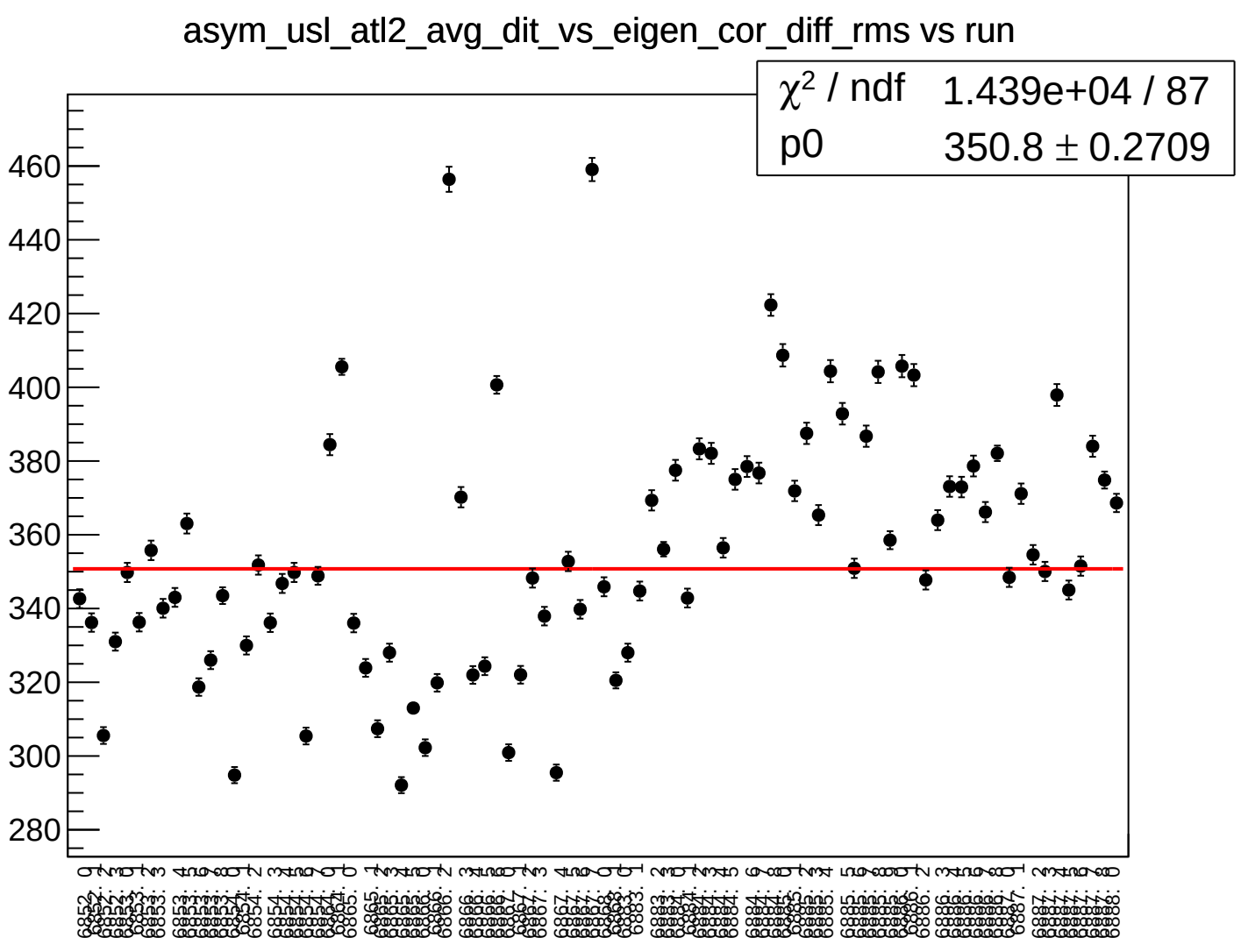

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.63 / 87
p0 −0.3127 ± 0.3831
pull
Entries 88
Mean −9.257
Std Dev 0

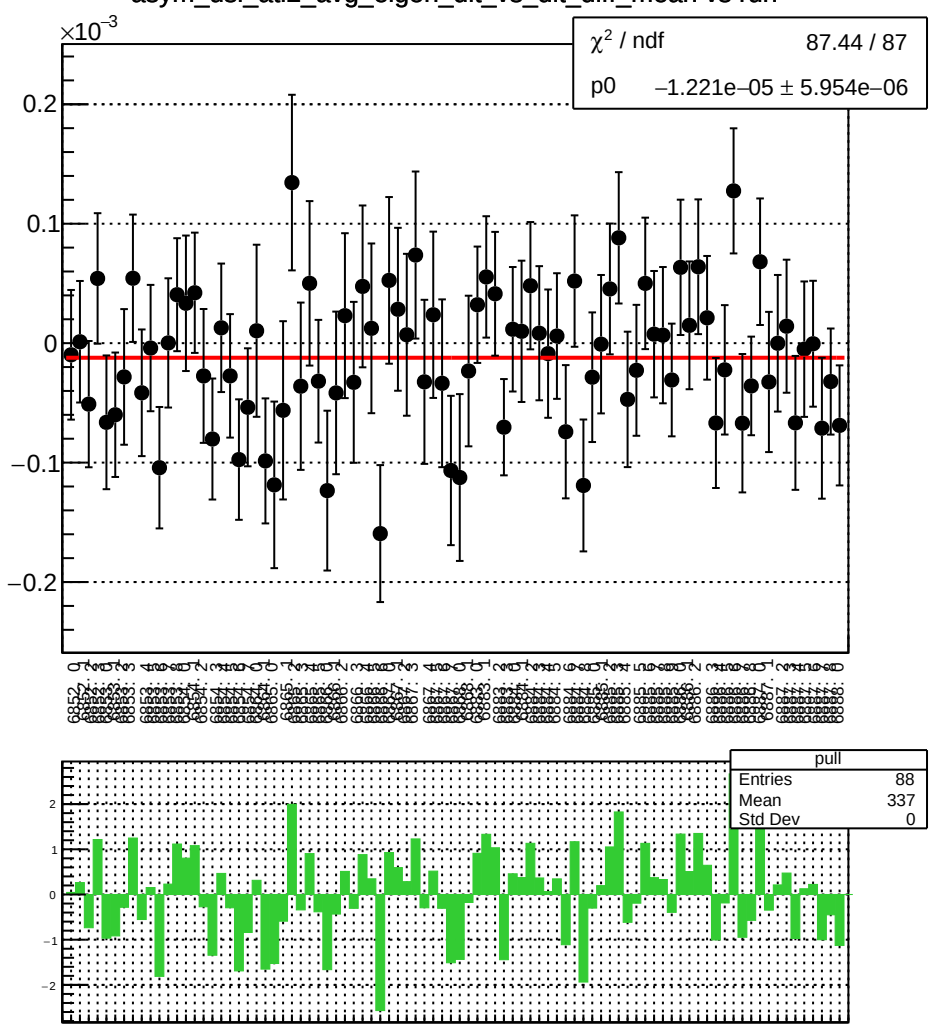

pull1D
Entries 88
Mean 0.002186
Std Dev 0.9271

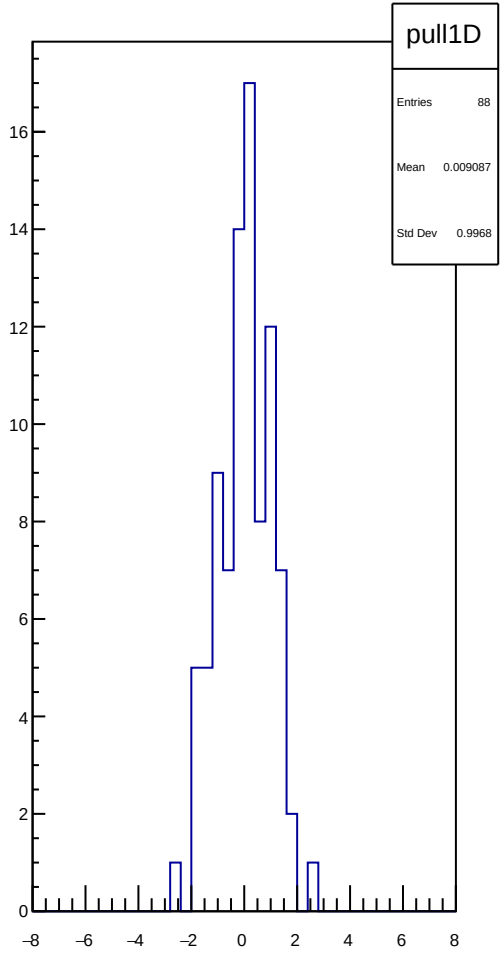

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.439e+04 / 87
p0 350.8 ± 0.2709
460
440
420
400
380
360
340
320
300
280

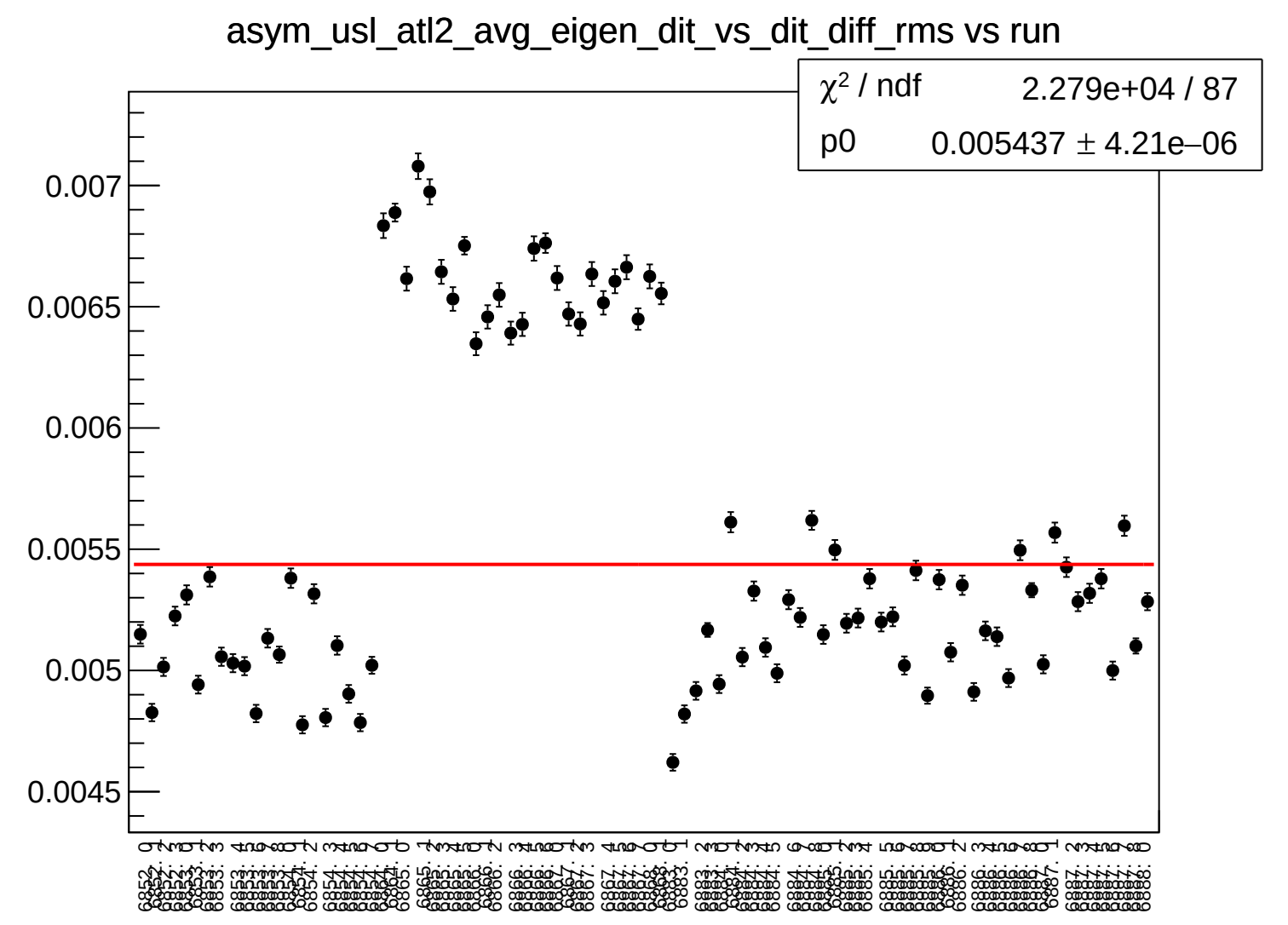

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.63 / 87
p0 −0.3127 ± 0.3831
pull
Entries 88
Mean −9.257
Std Dev 0

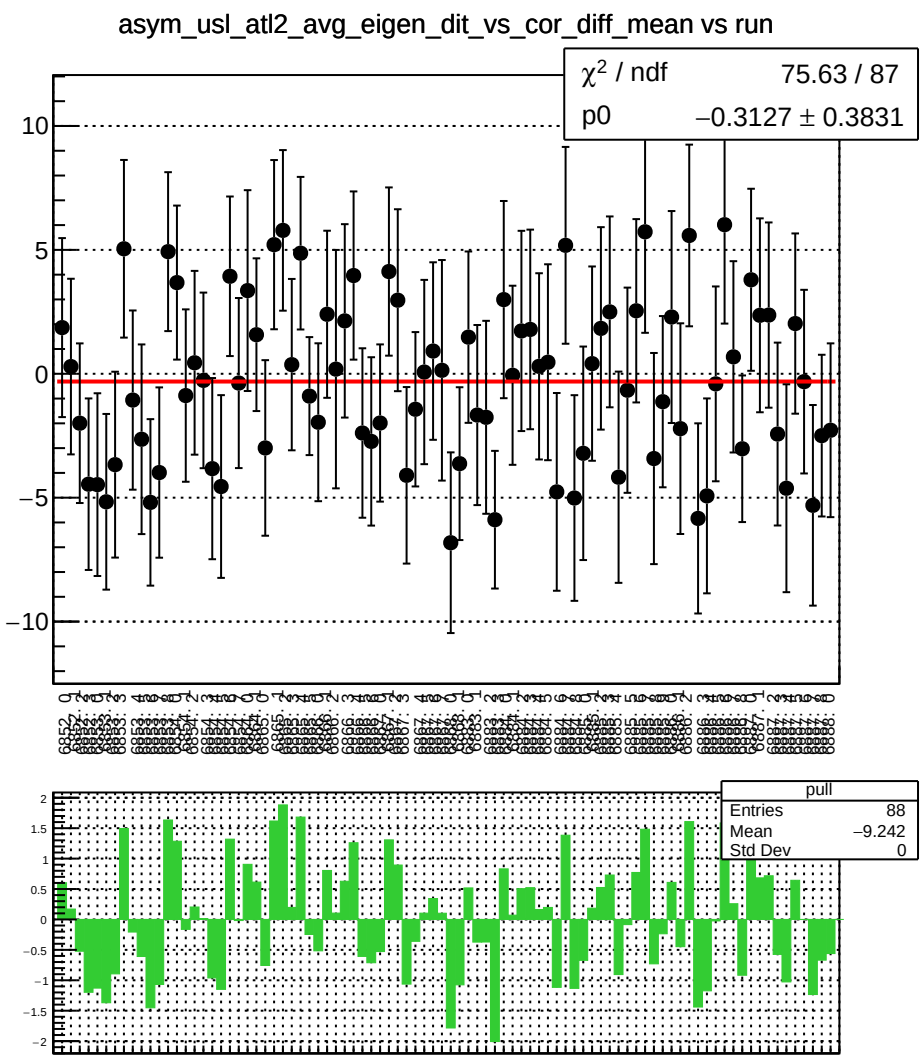

pull1D
Entries 88
Mean 0.002186
Std Dev 0.9271

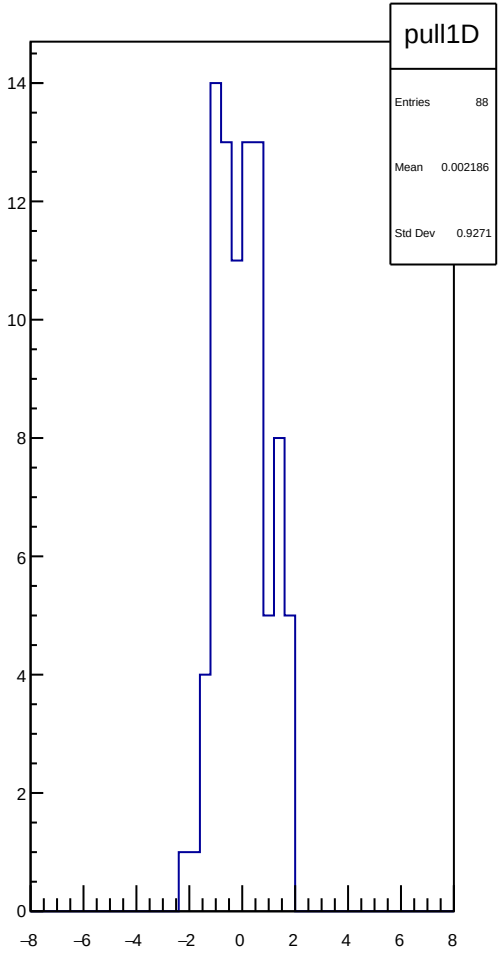

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.439e+04 / 87
p0 350.8 ± 0.2709
460
440
420
400
380
360
340
320
300
280

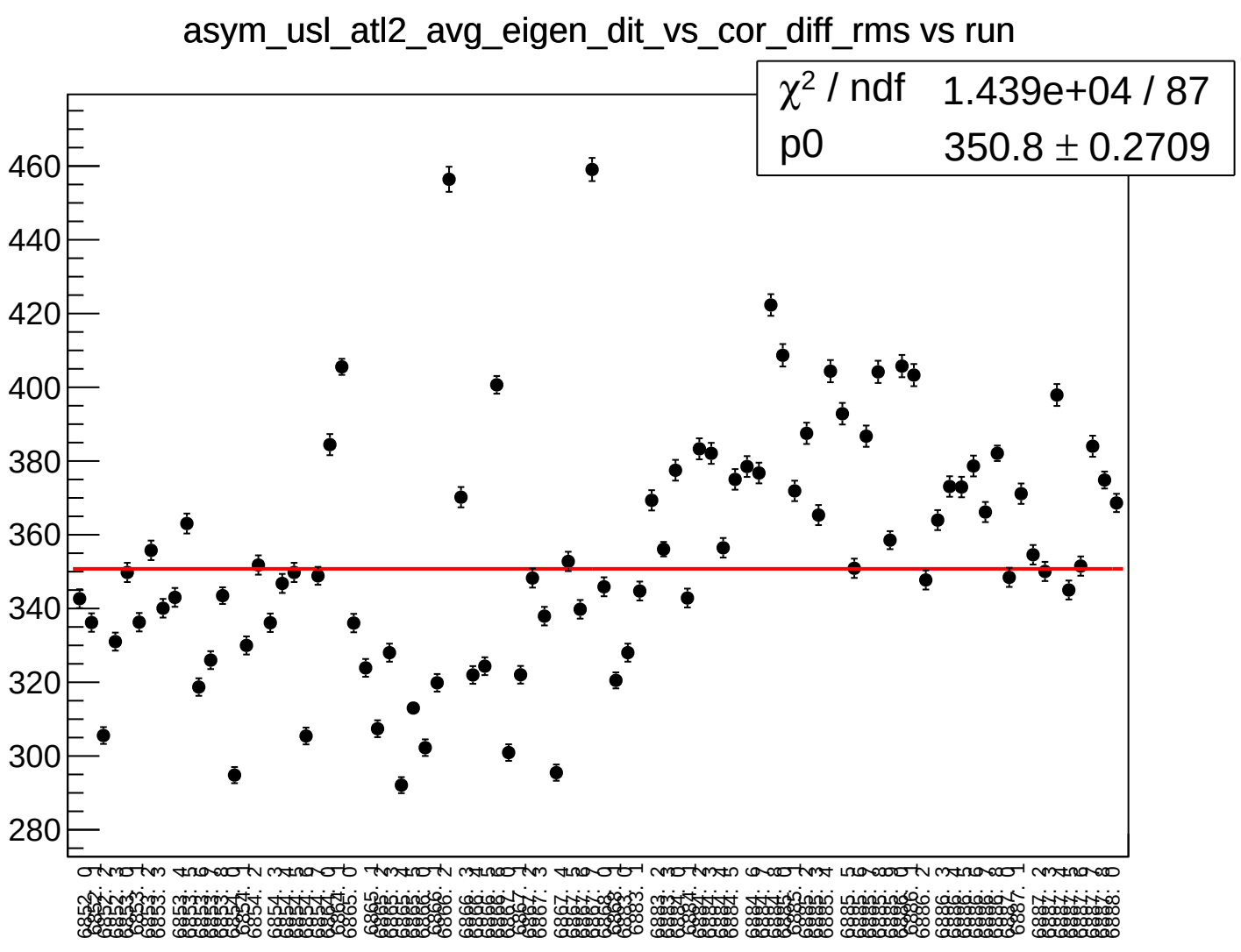

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.44 / 87
p0 −1.221e−05 ± 5.954e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean 337
Std Dev 0
2
1
0
−1
−2

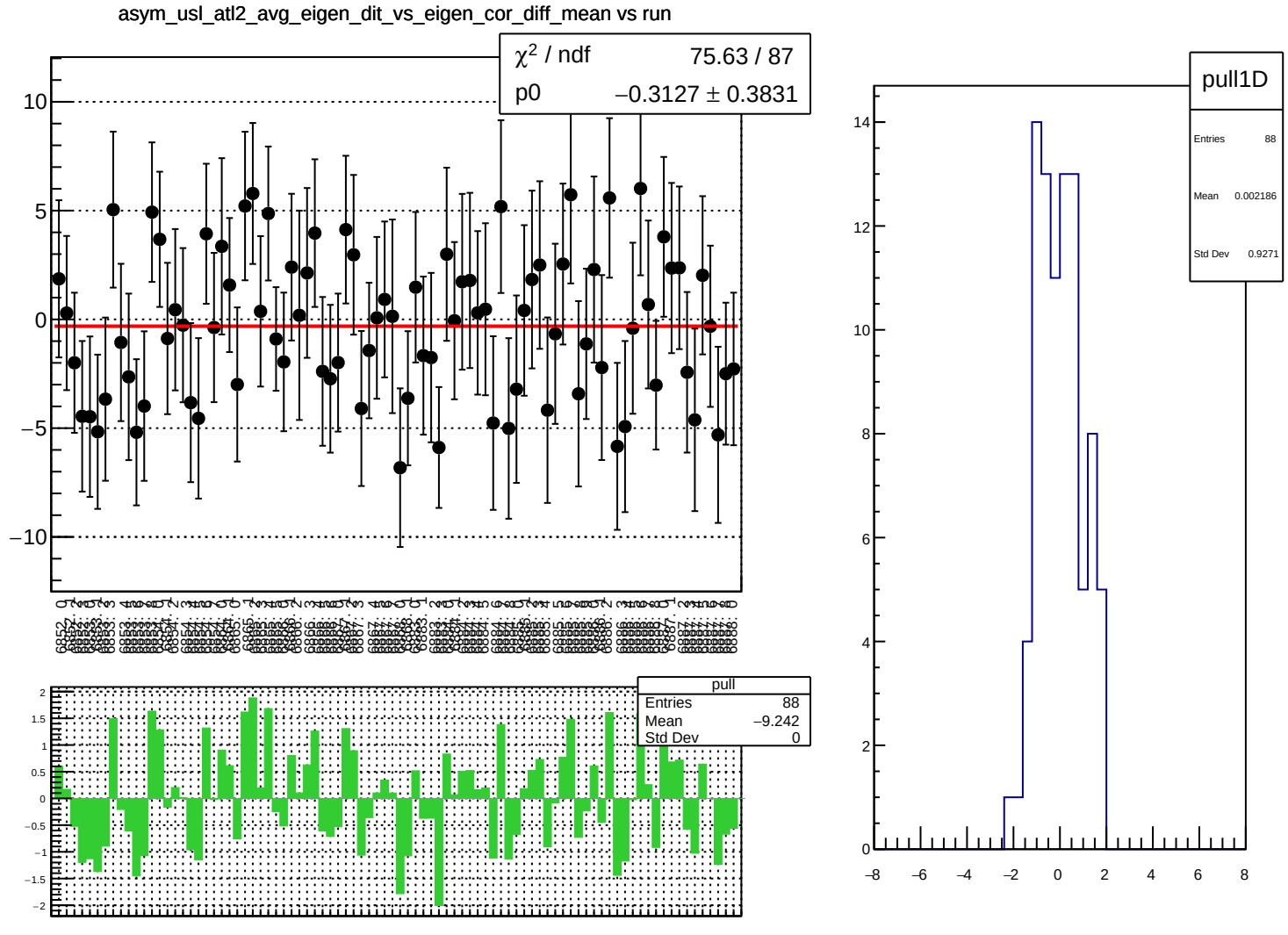

pull1D
Entries 88
Mean 0.009087
Std Dev 0.9968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

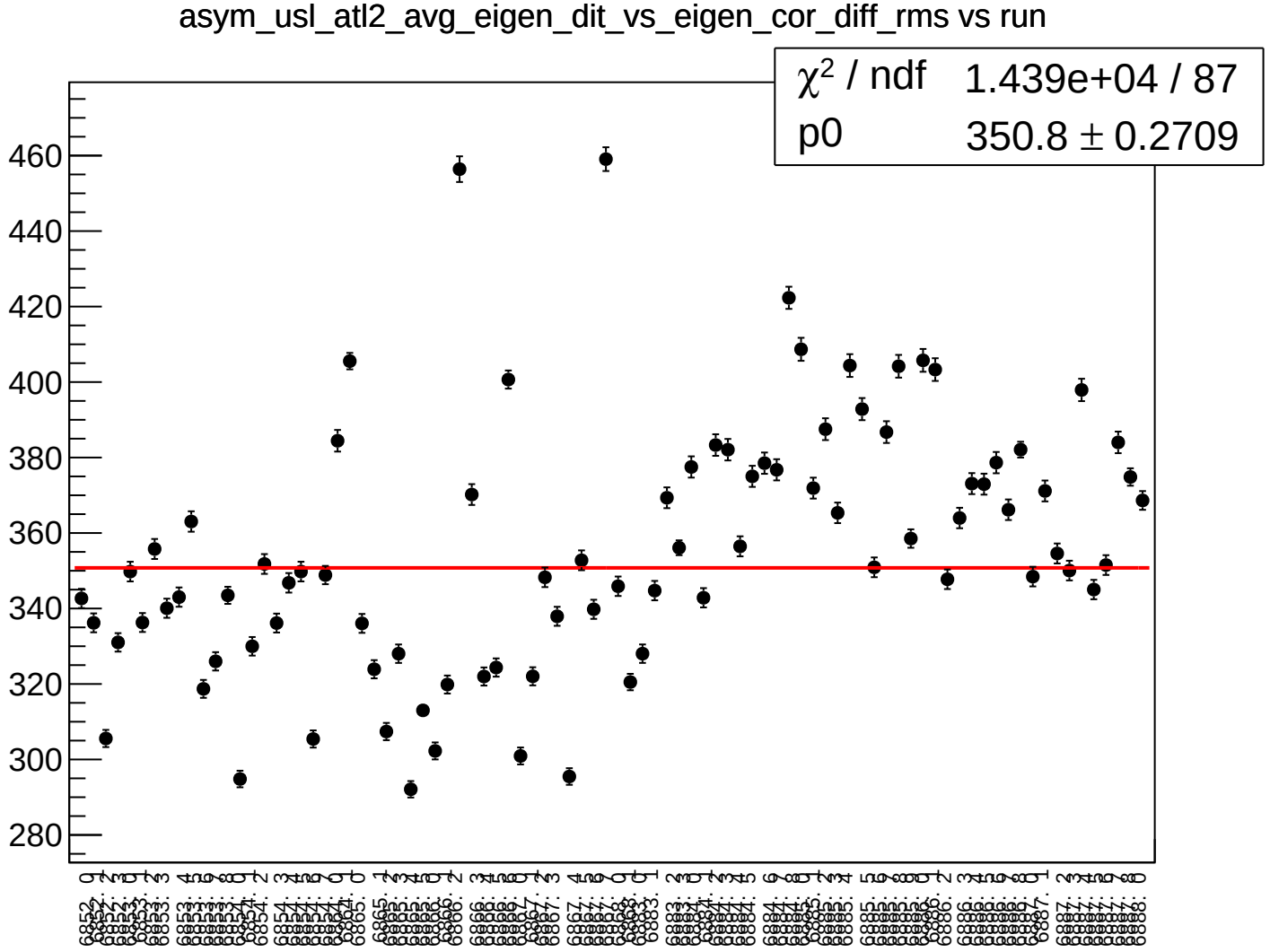

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.279e+04 / 87
p0 0.005437 ± 4.21e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045

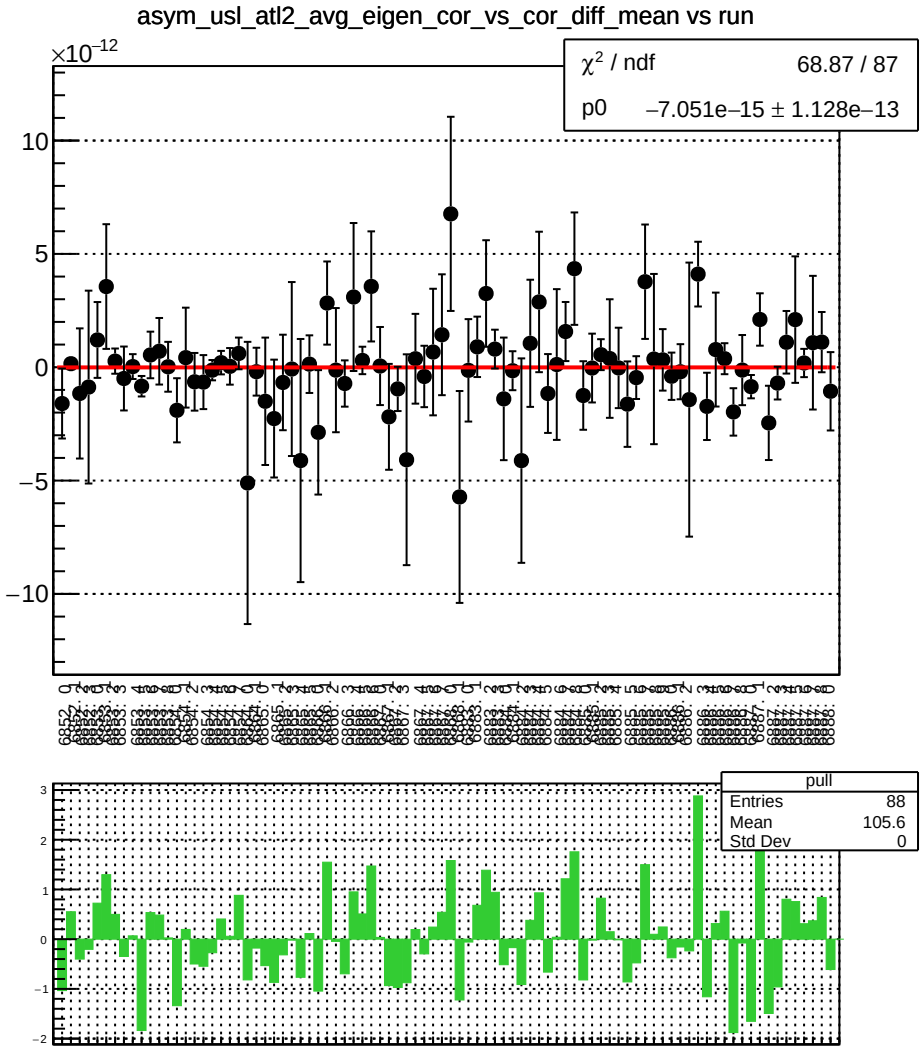

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.63 / 87
p0 −0.3127 ± 0.3831
pull
Entries 88
Mean −9.242
Std Dev 0

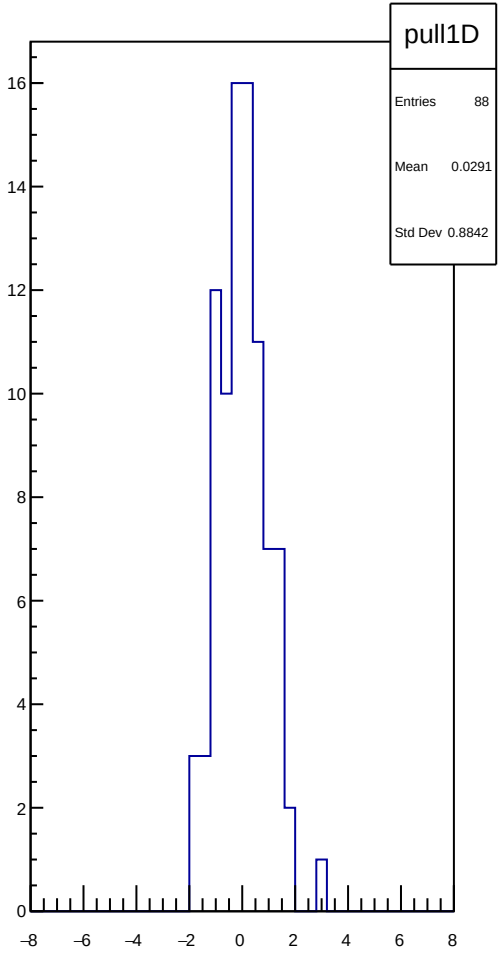

pull1D
Entries 88
Mean 0.002186
Std Dev 0.9271

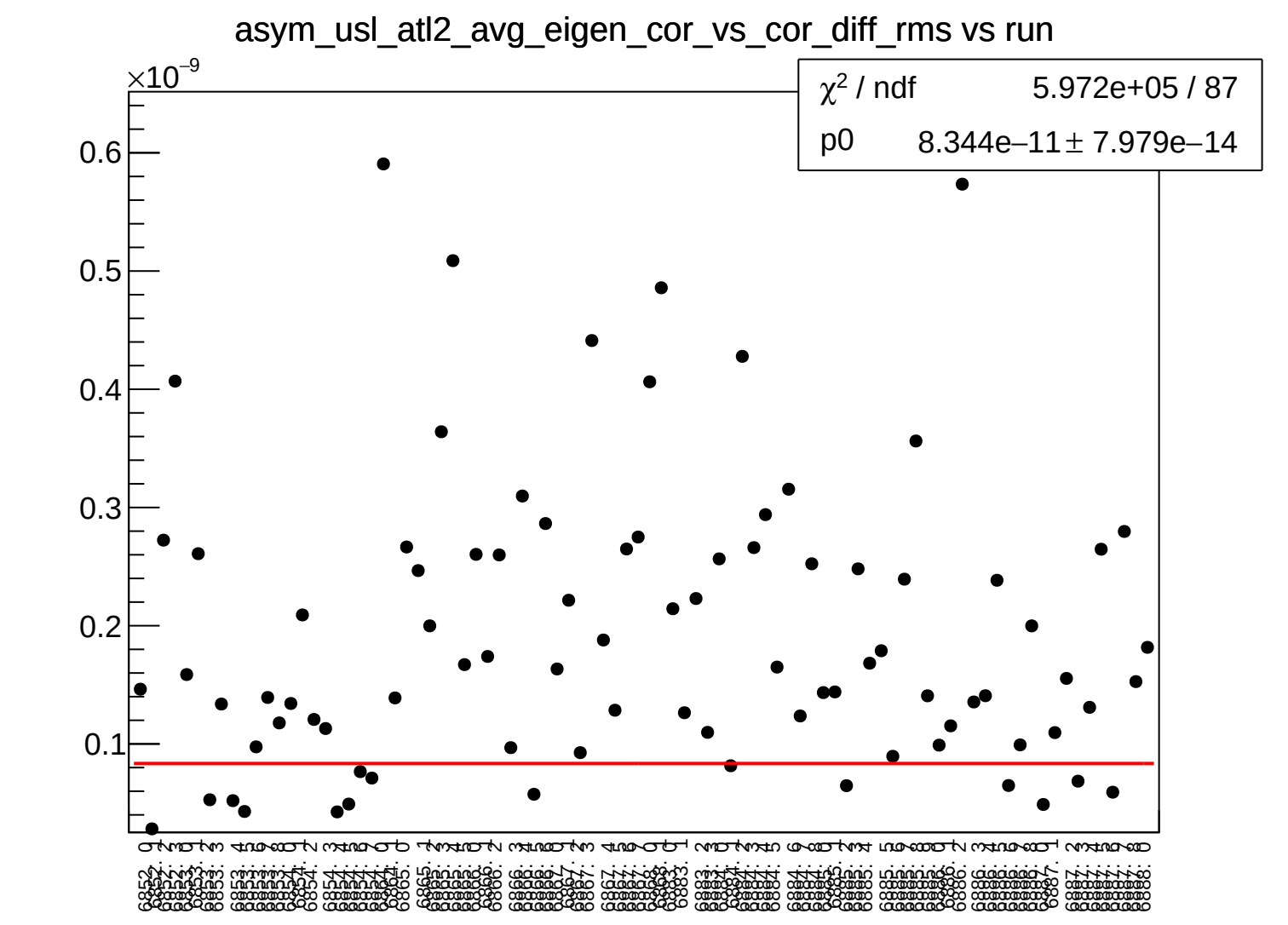

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.439e+04 / 87
p0 350.8 ± 0.2709
460
440
420
400
380
360
340
320
300
280

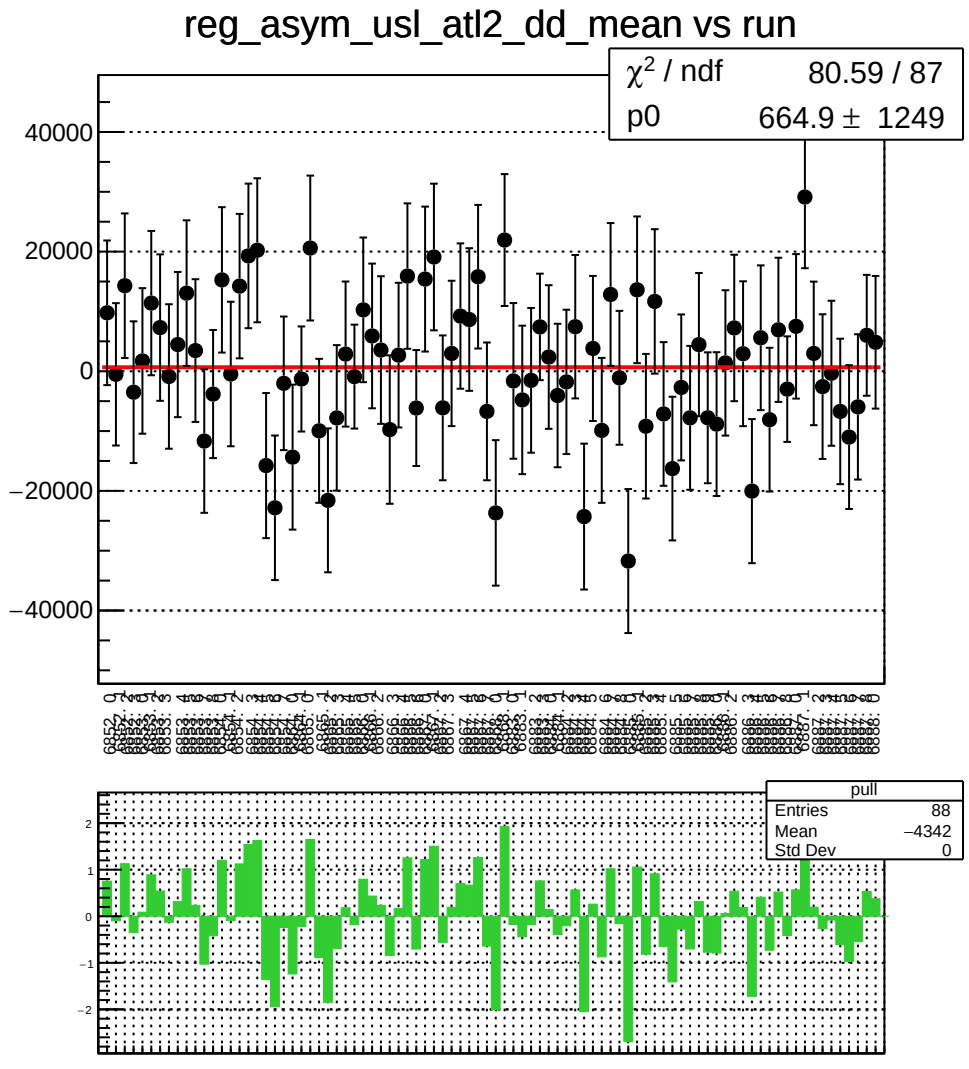

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.63 / 87
p0 −0.3127 ± 0.3831
10
5
0
−5
−10
pull
Entries 88
Mean −9.242
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.002186
Std Dev 0.9271
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

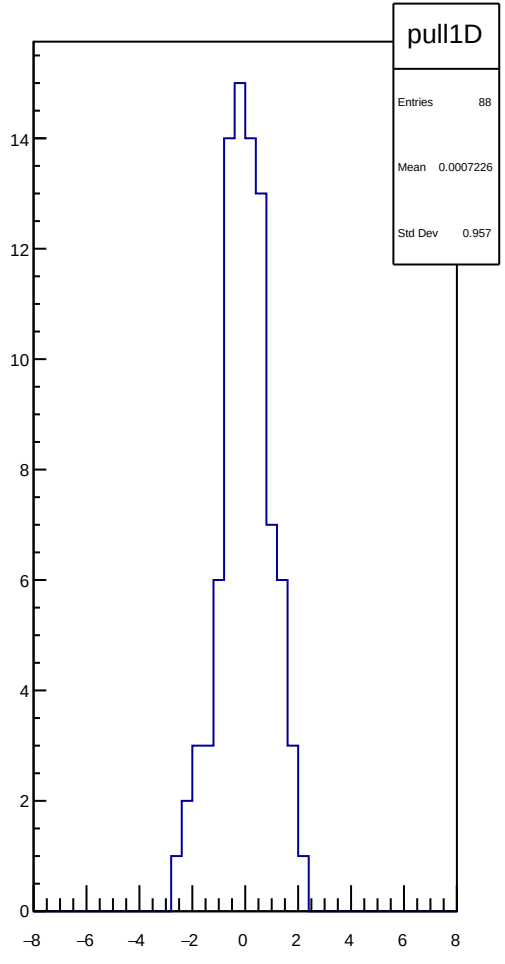

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.439e+04 / 87
p0 350.8 ± 0.2709
460
440
420
400
380
360
340
320
300
280

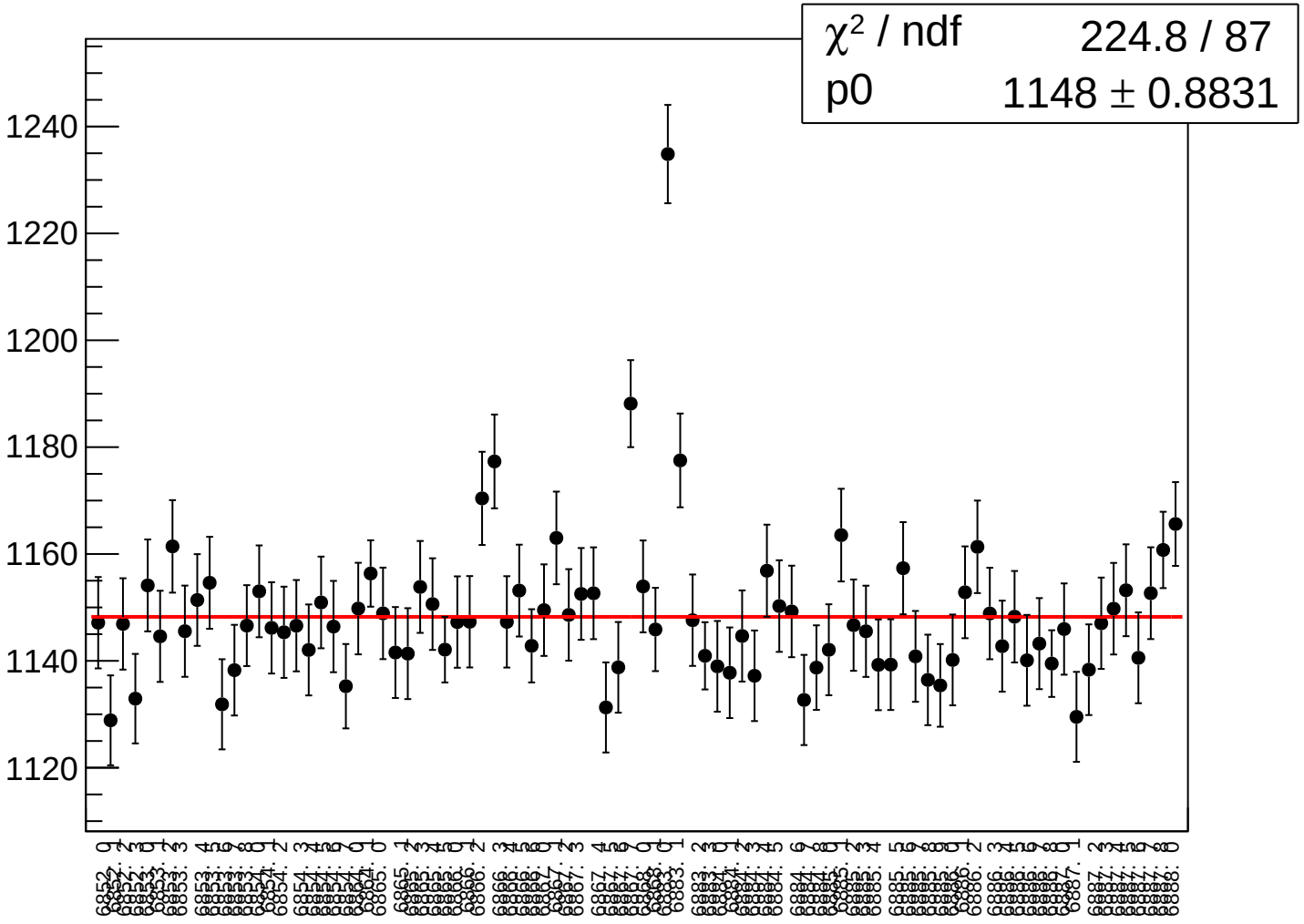

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.87 / 87
p0 −7.051e−15 ± 1.128e−13
pull
Entries 88
Mean 105.6
Std Dev 0

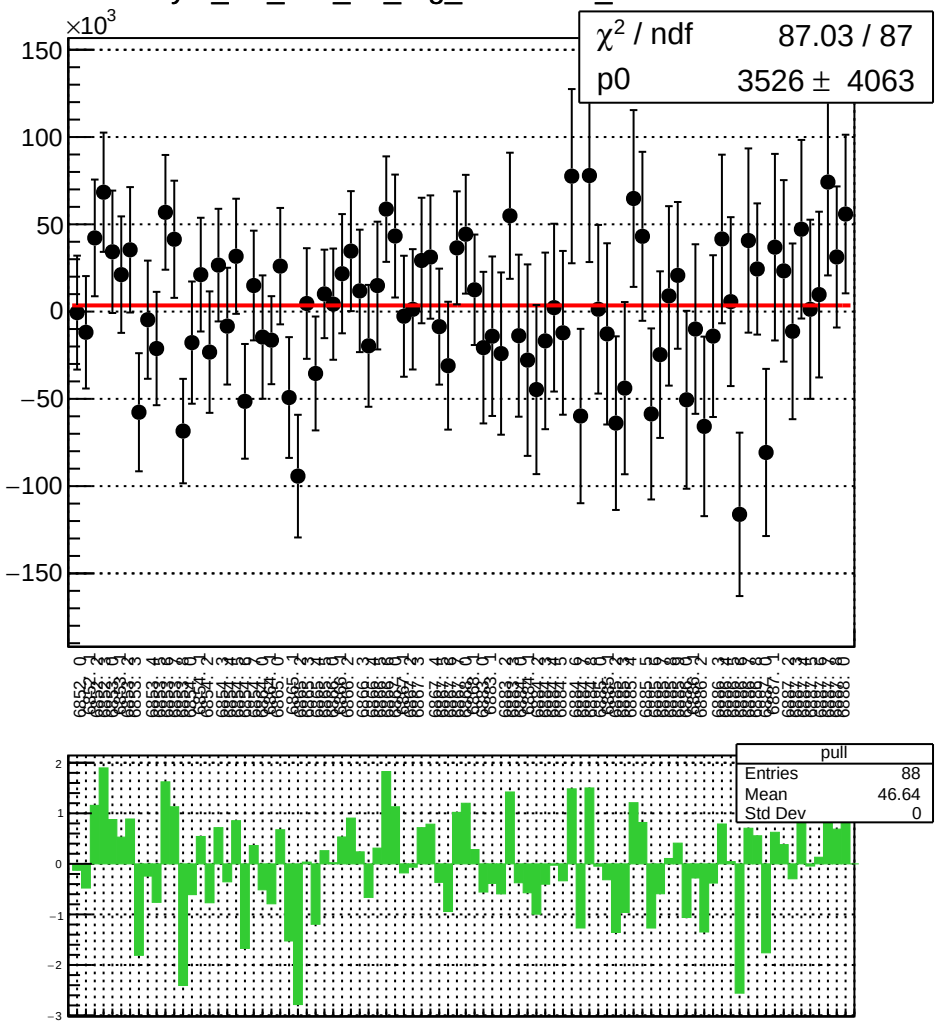

pull1D
Entries 88
Mean 0.0291
Std Dev 0.8842

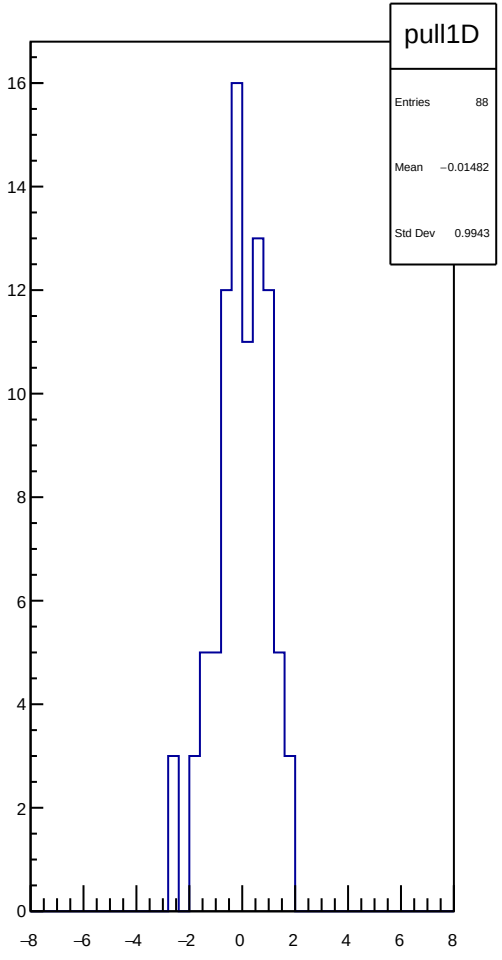

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.972e+05 / 87
p0 8.344e−11 ± 7.979e−14
0.6
0.5
0.4
0.3
0.2
0.1

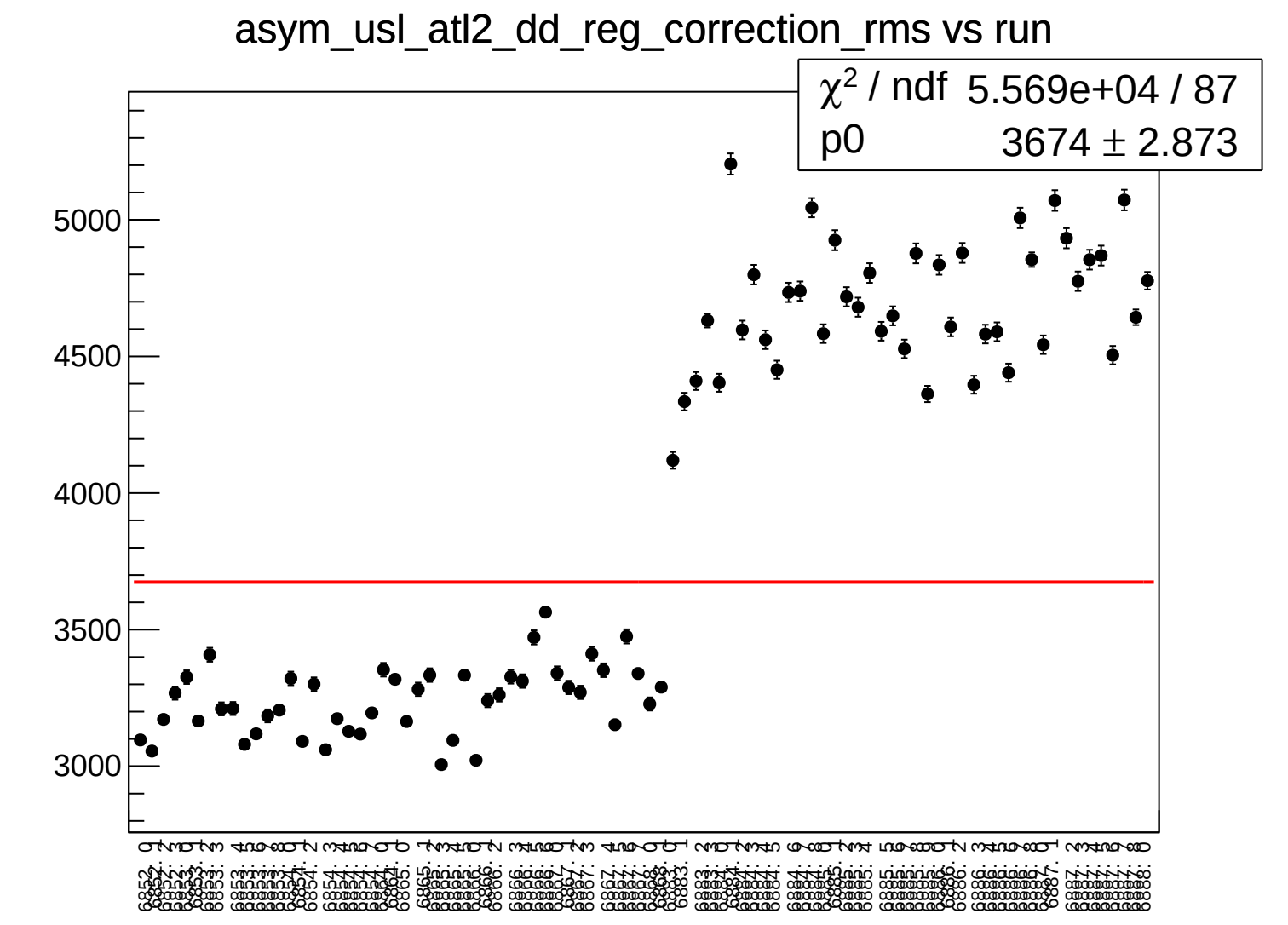

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 80.59 / 87
p0 664.9 ± 1249
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −4342
Std Dev 0
2
1
0
−1
−2

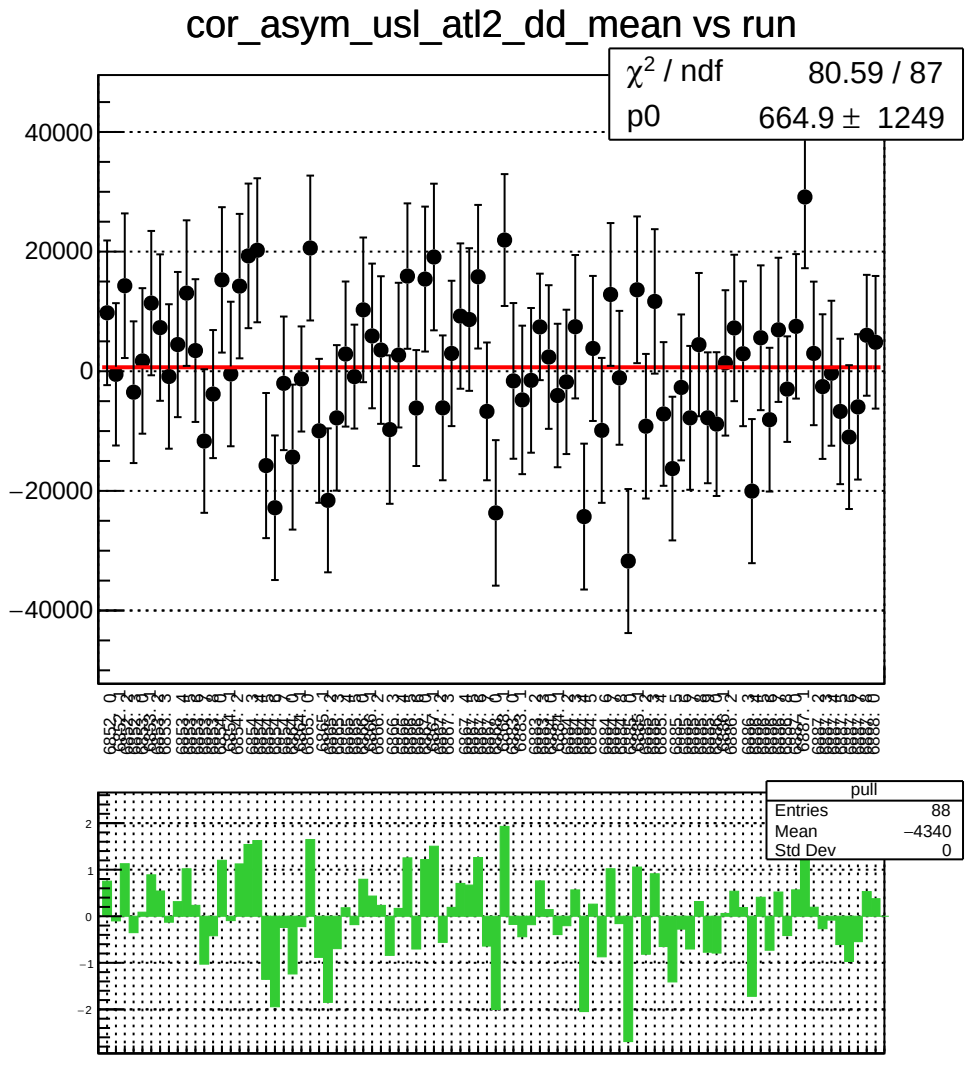

pull1D
Entries 88
Mean 0.0007226
Std Dev 0.957
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

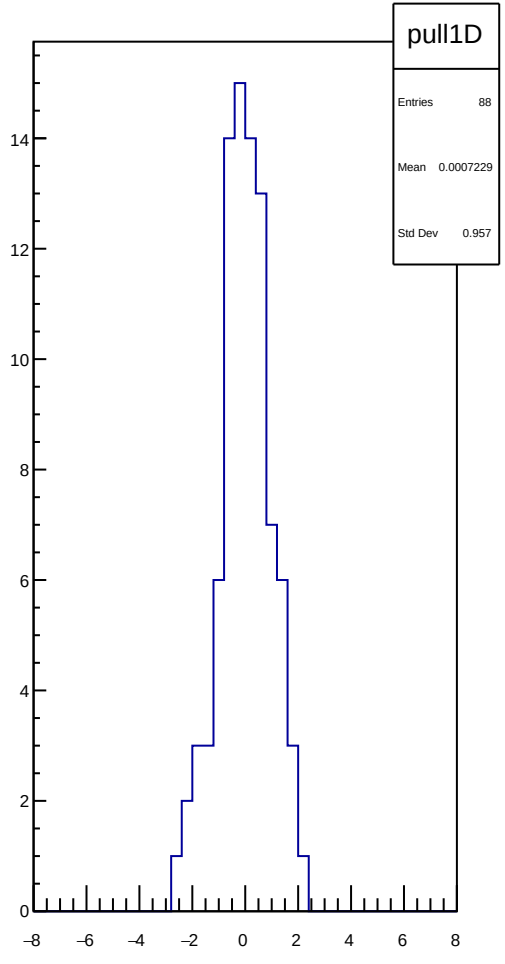

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 224.8 / 87
p0 1148 ± 0.8831
1240
1220
1200
1180
1160
1140
1120

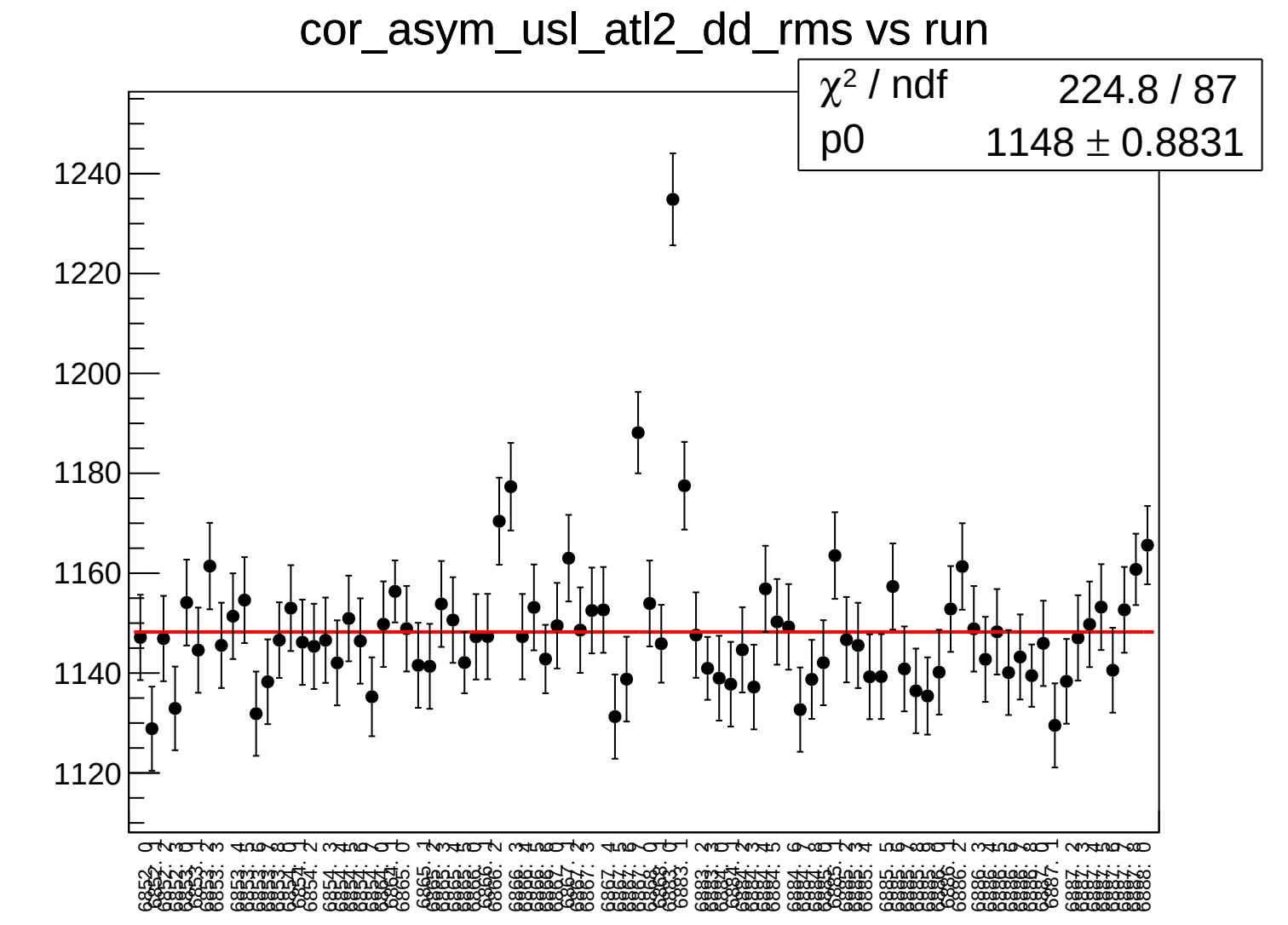

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 87.03 / 87
p0 3526 ± 4063
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 46.64
Std Dev 0
2
1
0
−1
−2
−3

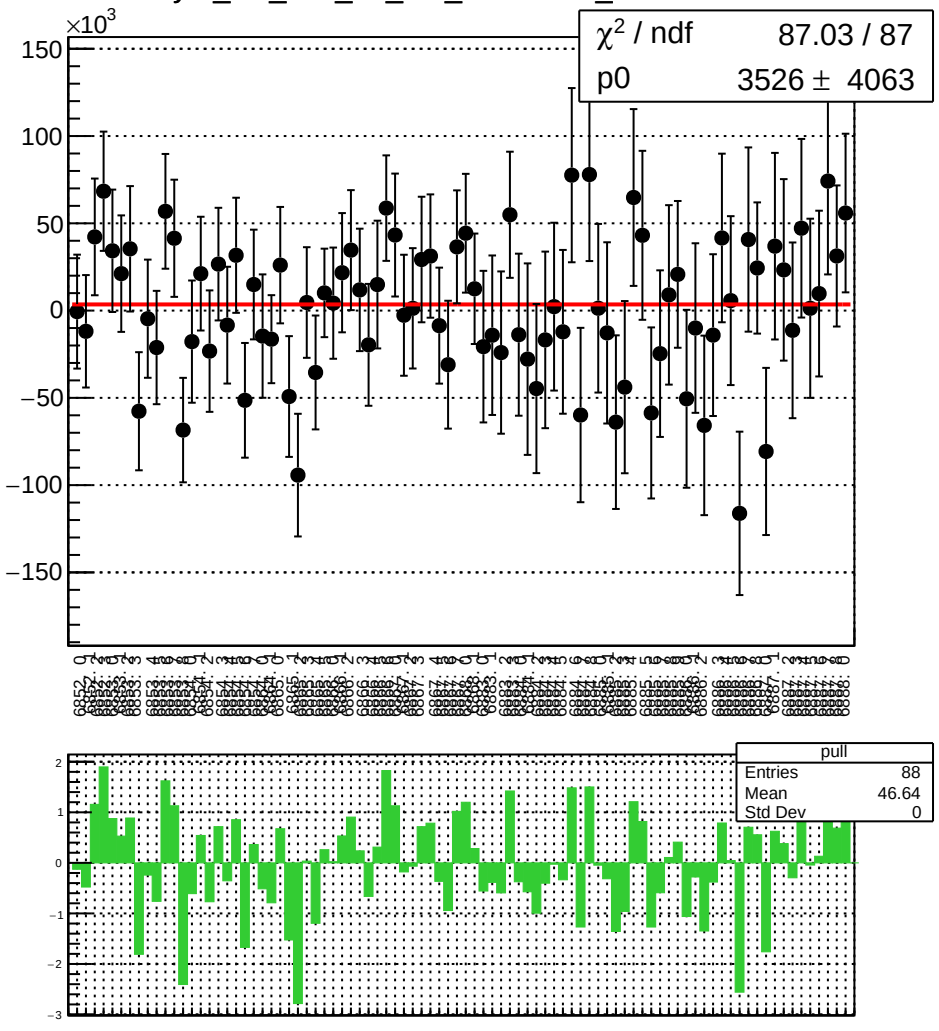

pull1D
Entries 88
Mean −0.01482
Std Dev 0.9943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

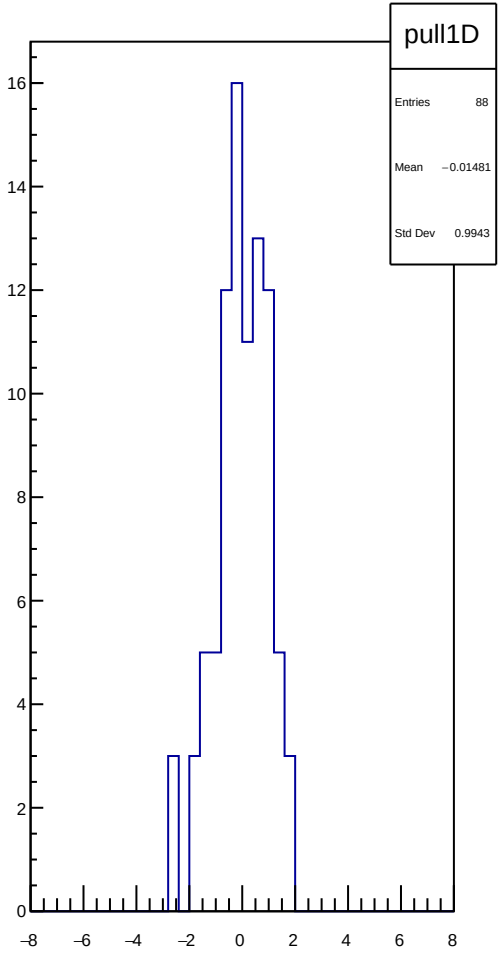

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 5.569e+04 / 87
p0 3674 ± 2.873
5000
4500
4000
3500
3000

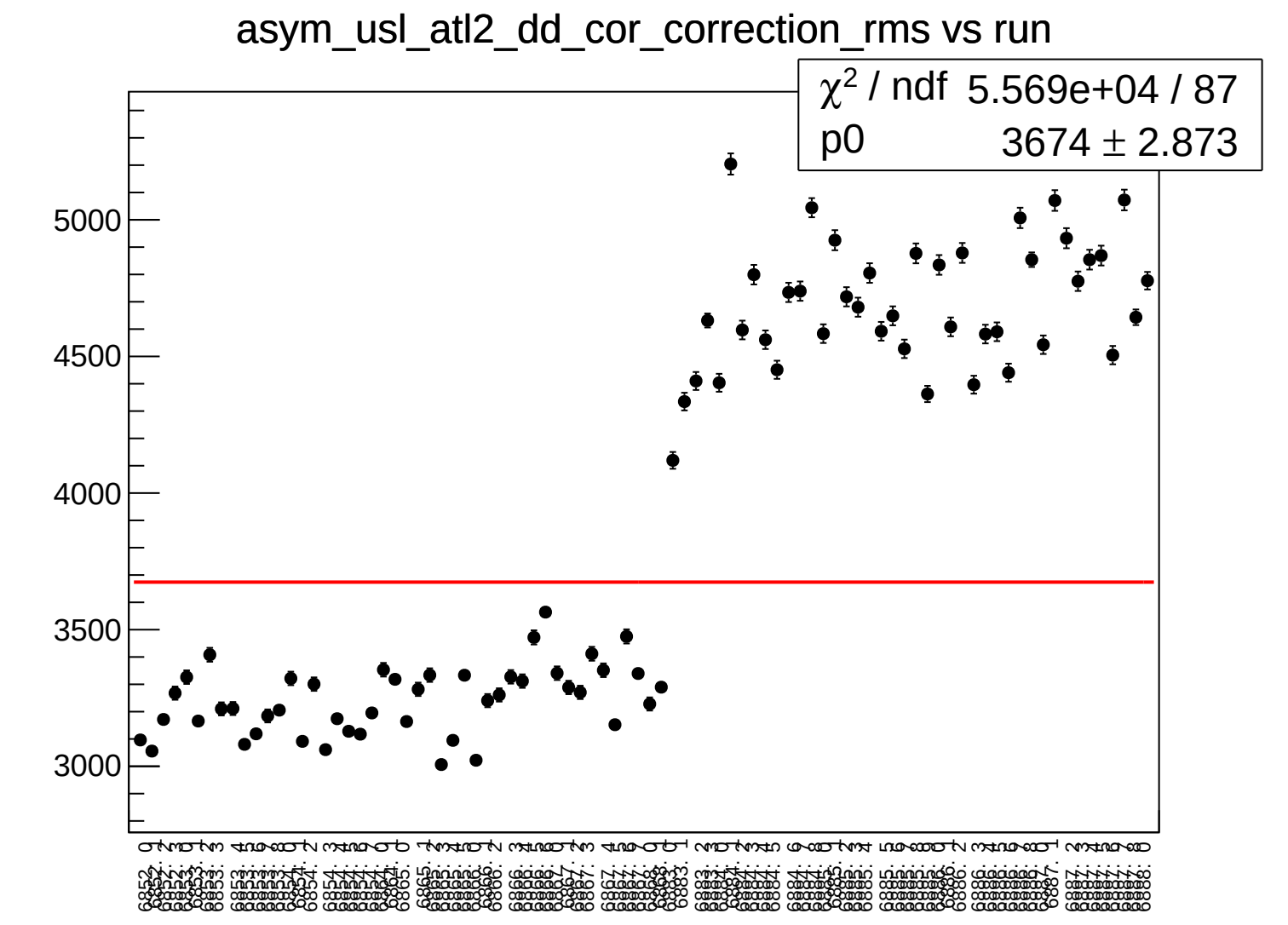

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 80.59 / 87
p0 664.9 ± 1249
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −4340
Std Dev 0
2
1
0
−1
−2

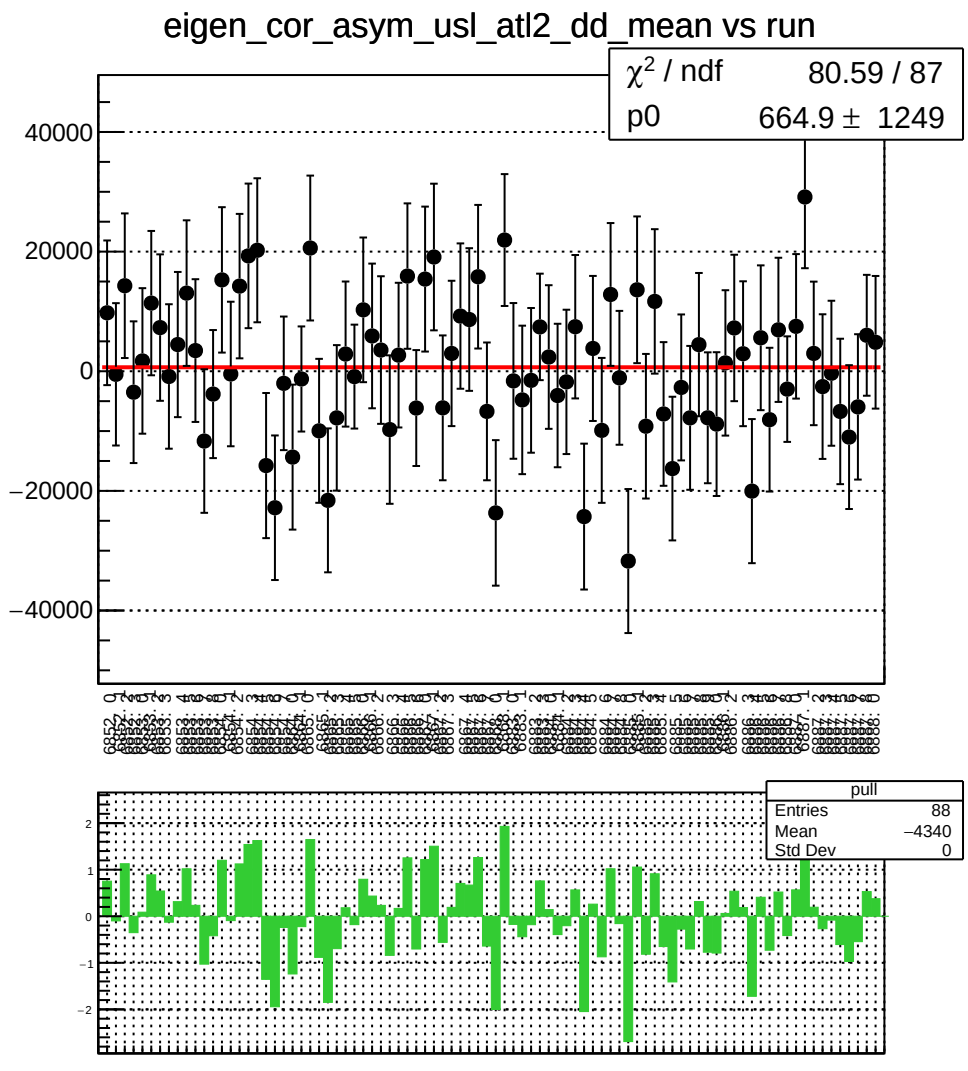

pull1D
Entries 88
Mean 0.0007229
Std Dev 0.957
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

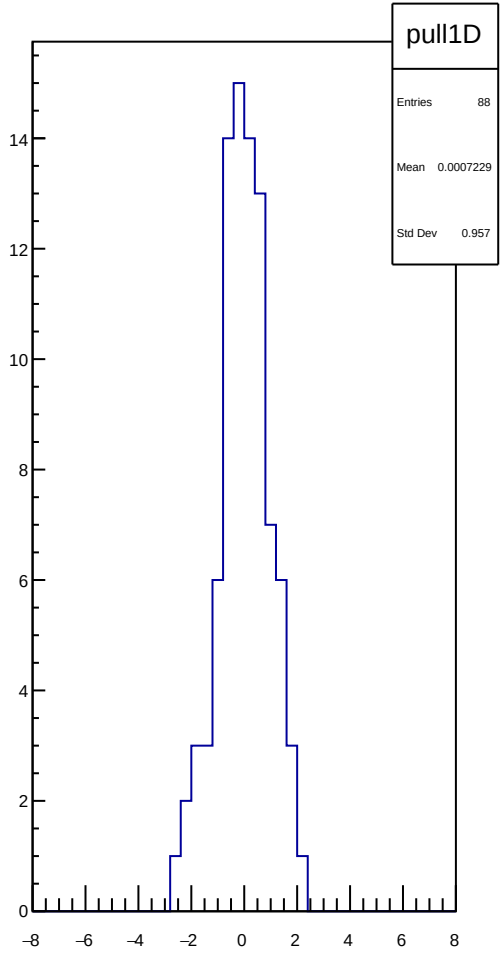

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 224.8 / 87
p0 1148 ± 0.8831
1240
1220
1200
1180
1160
1140
1120

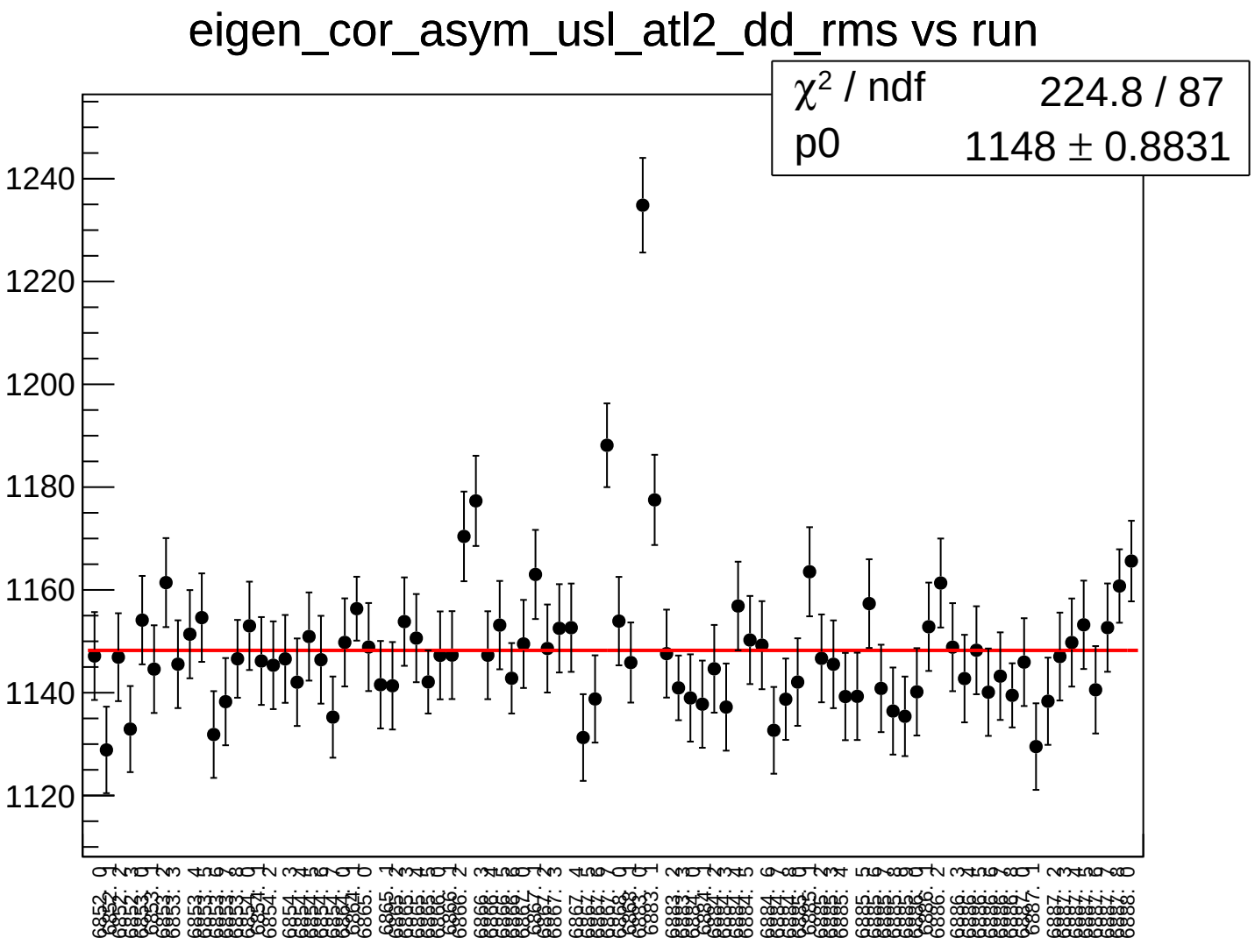

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 87.03 / 87
p0 3526 ± 4063
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 46.64
Std Dev 0
2
1
0
−1
−2
−3

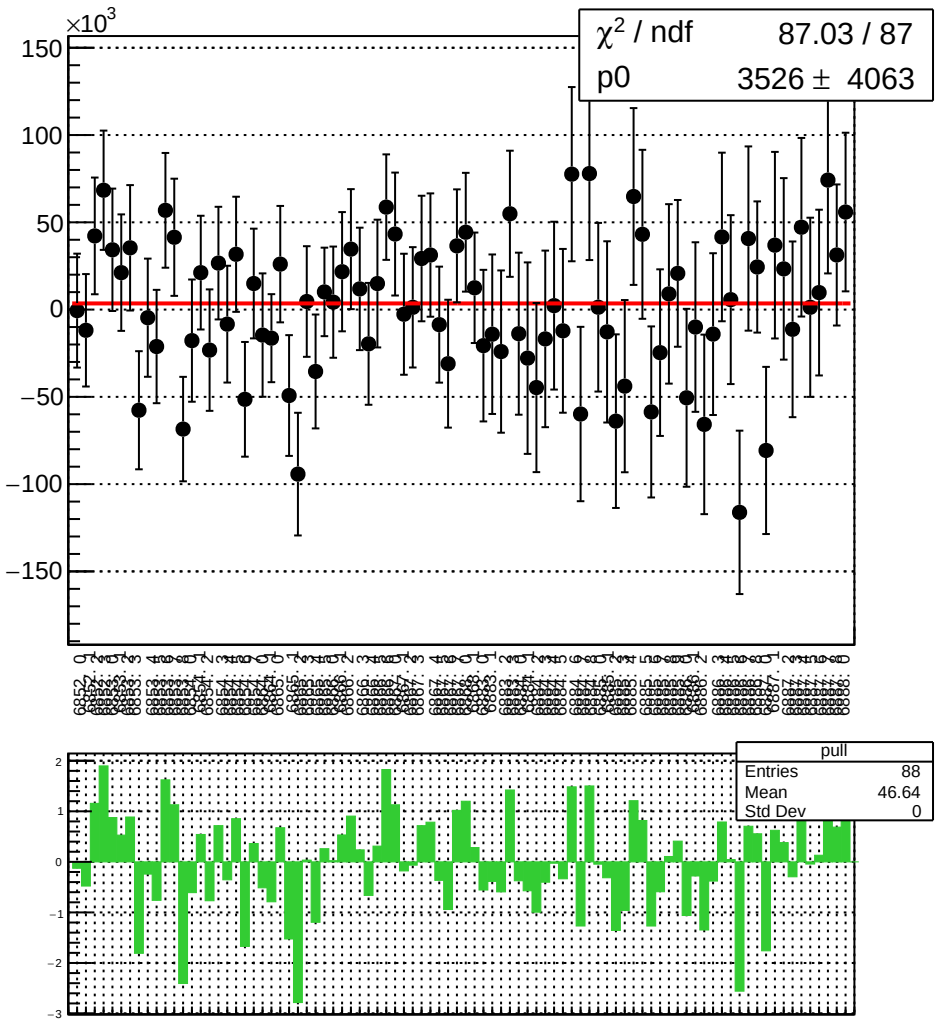

pull1D
Entries 88
Mean −0.01481
Std Dev 0.9943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

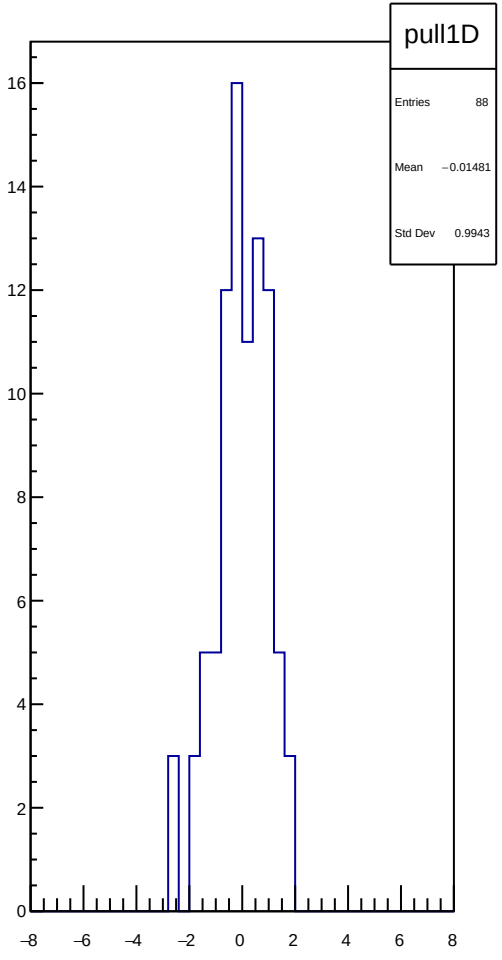

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 5.569e+04 / 87
p0 3674 ± 2.873
5000
4500
4000
3500
3000

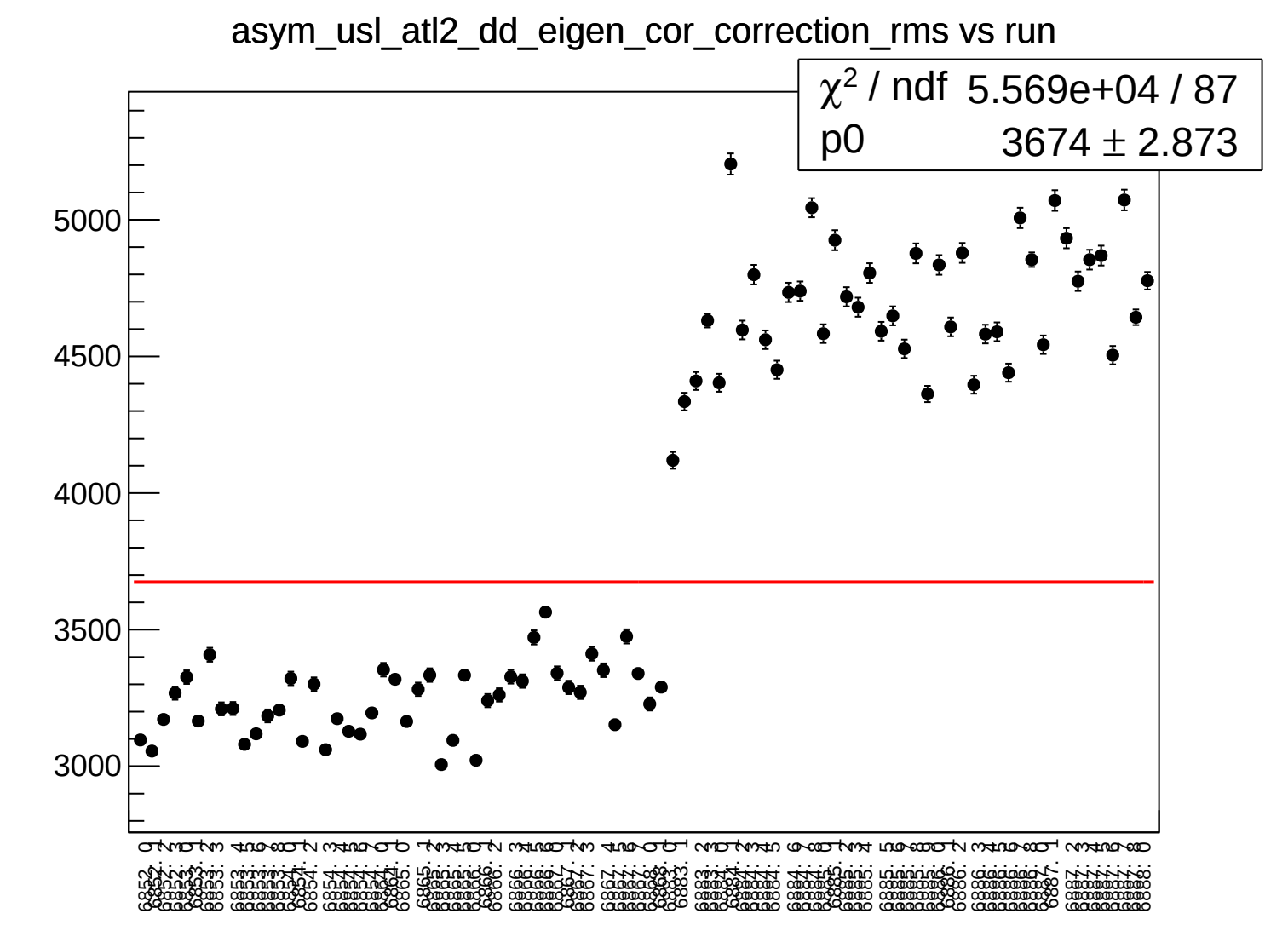

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 80.59 / 87
p0 664.9 ± 1249
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −4340
Std Dev 0
2
1
0
−1
−2

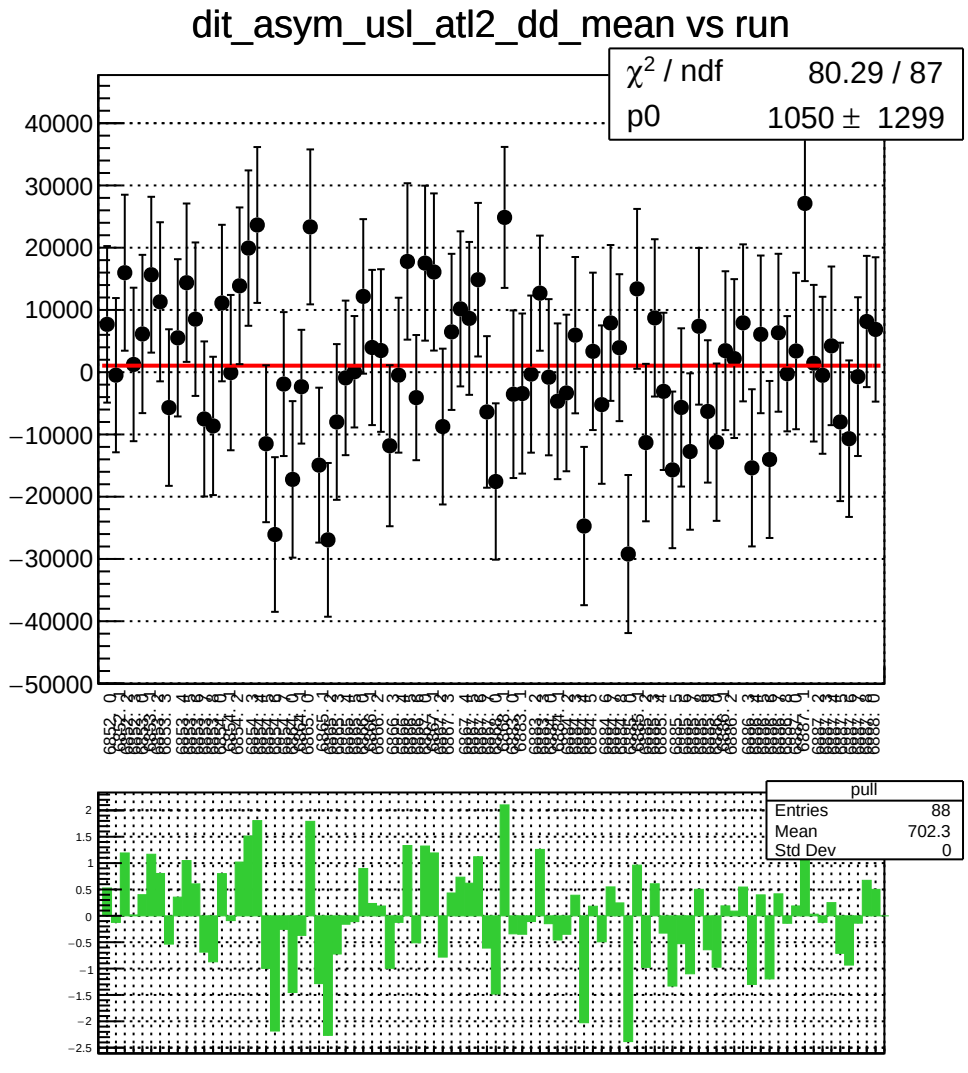

pull1D
Entries 88
Mean 0.0007229
Std Dev 0.957
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

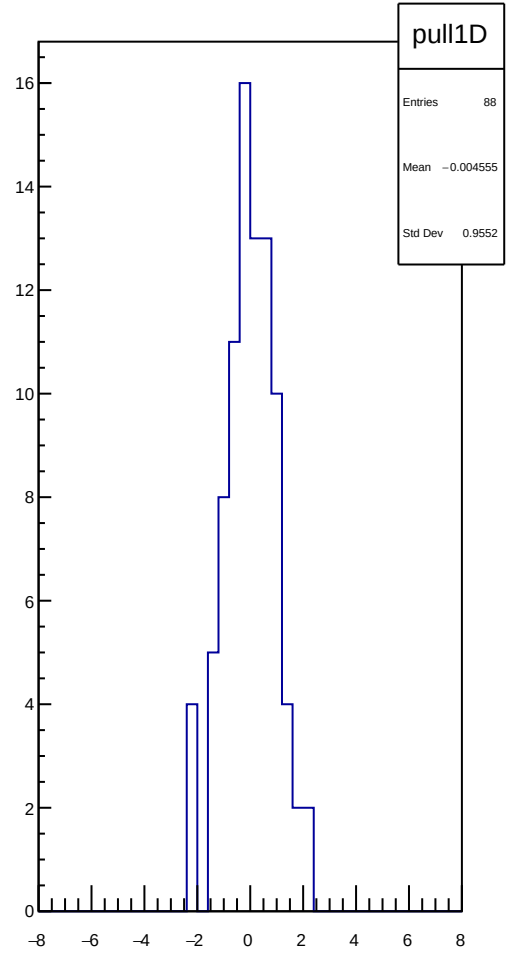

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 224.8 / 87
p0 1148 ± 0.8831
1240
1220
1200
1180
1160
1140
1120

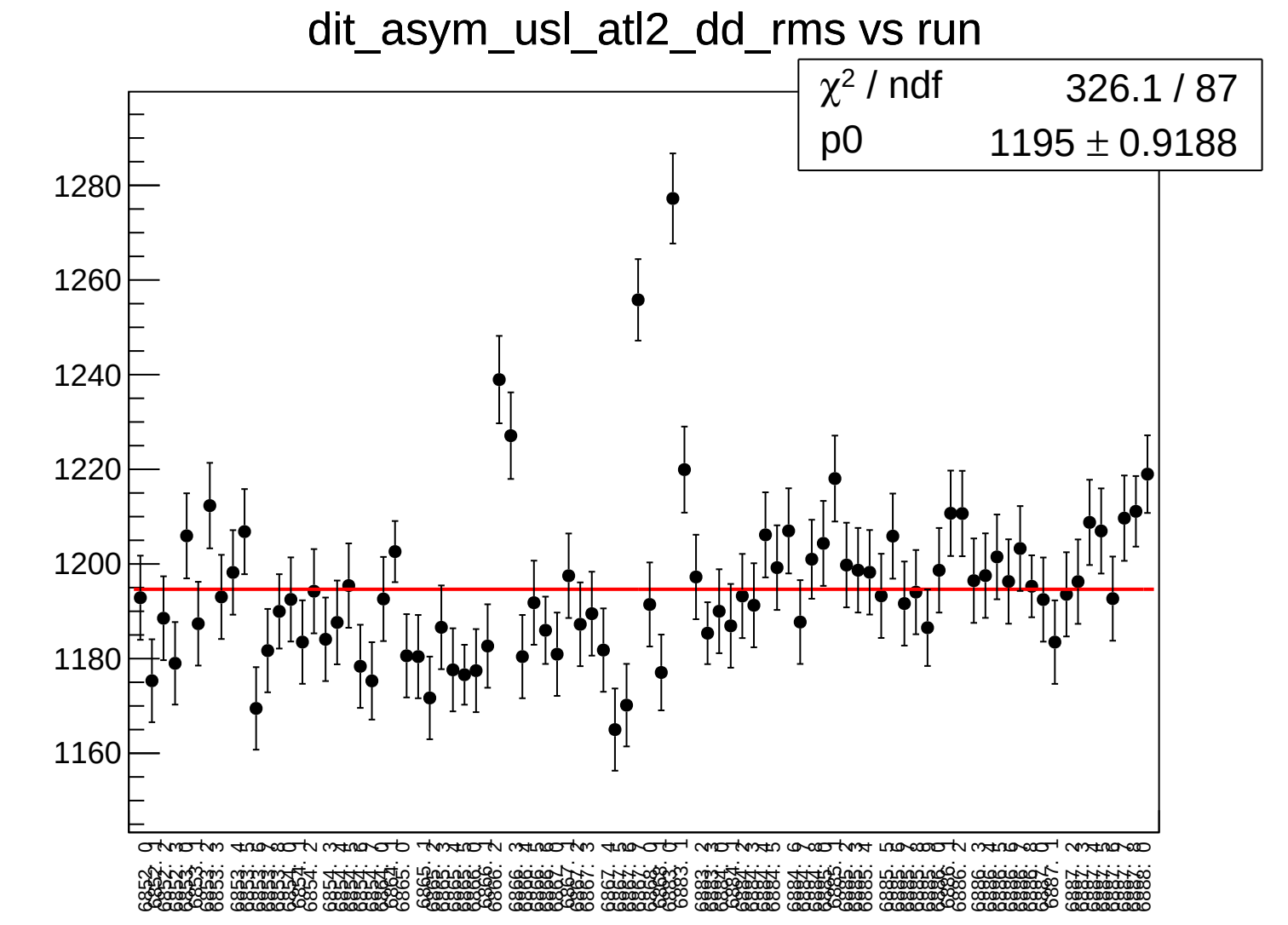

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.03 / 87
p0 3526 ± 4063
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 46.64
Std Dev 0
2
1
0
−1
−2
−3

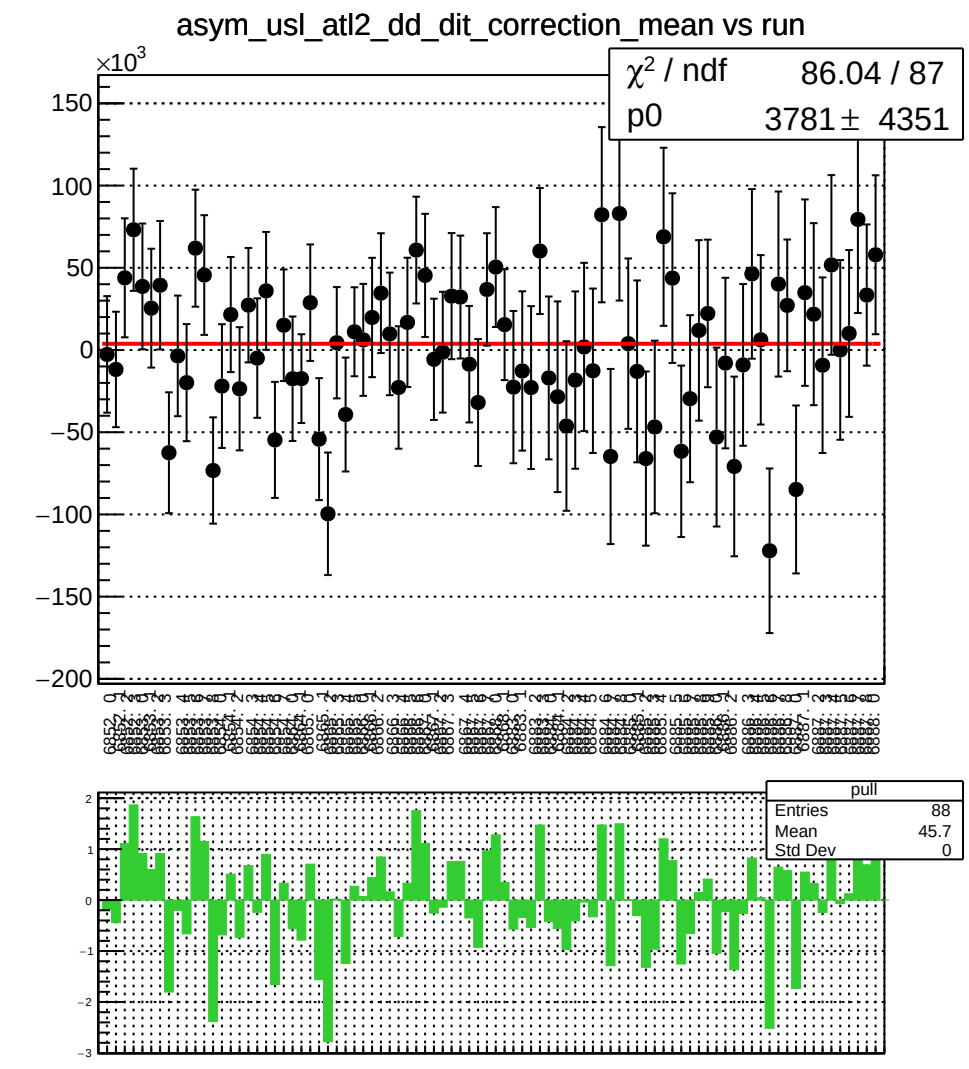

pull1D
Entries 88
Mean −0.01481
Std Dev 0.9943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

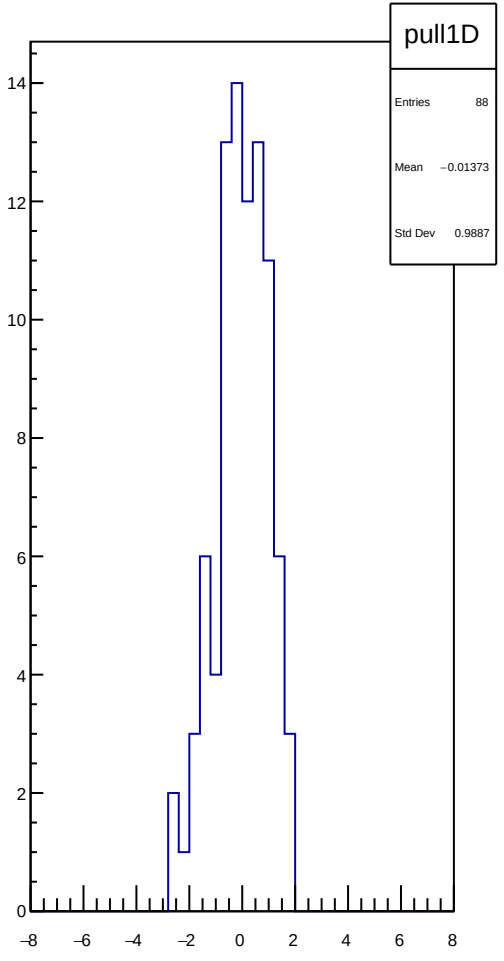

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.569e+04 / 87
p0 3674 ± 2.873
5000
4500
4000
3500
3000

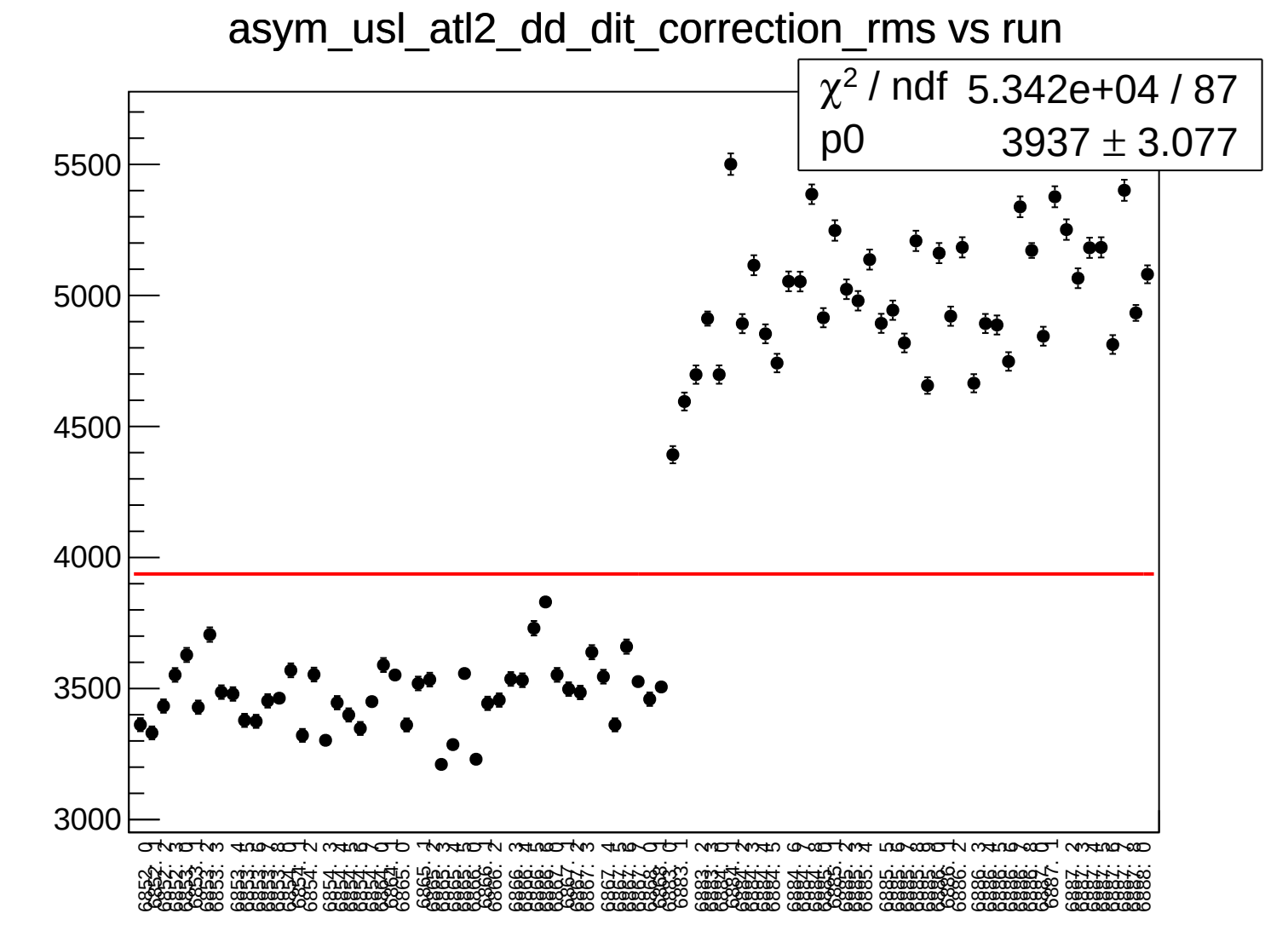

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 80.29 / 87
p0 1050 ± 1299
pull
Entries 88
Mean 702.3
Std Dev 0

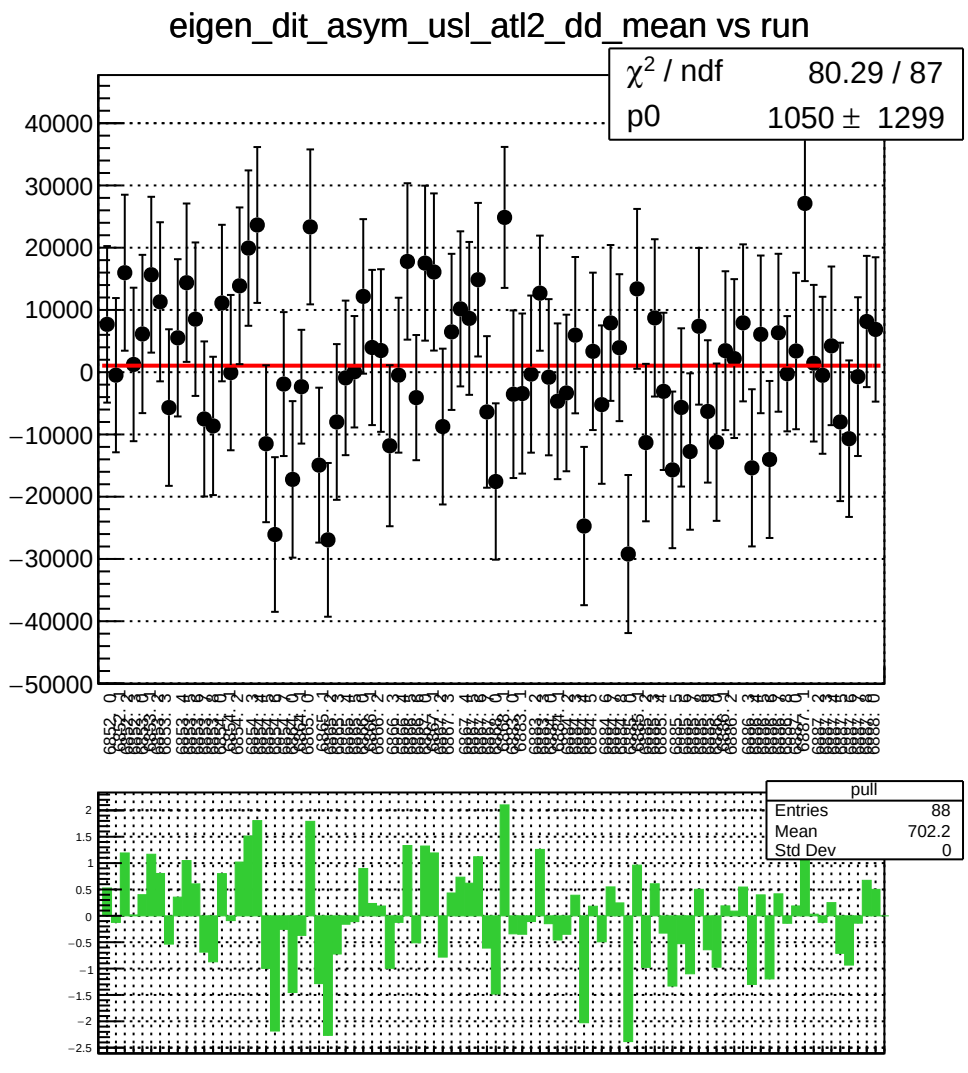

pull1D
Entries 88
Mean −0.004555
Std Dev 0.9552

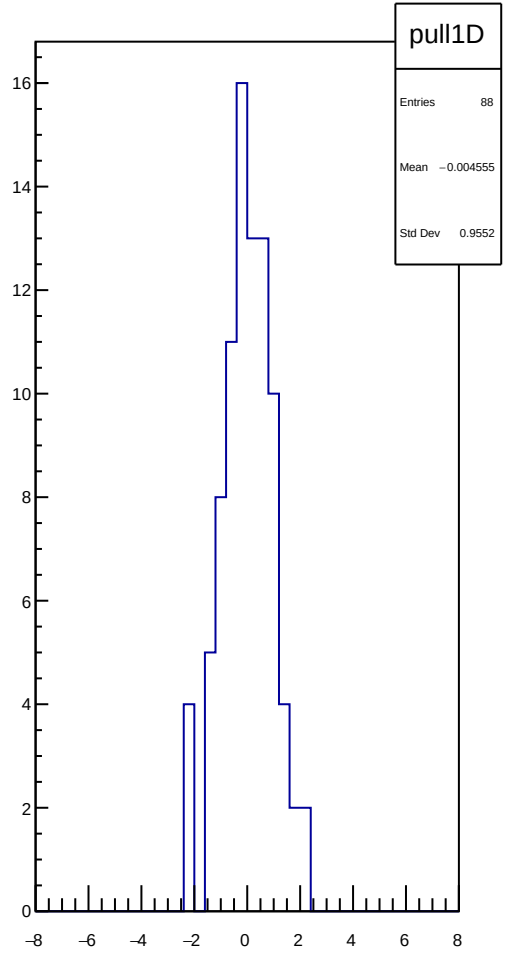

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 326.1 / 87
p0 1195 ± 0.9188
1280
1260
1240
1220
1200
1180
1160

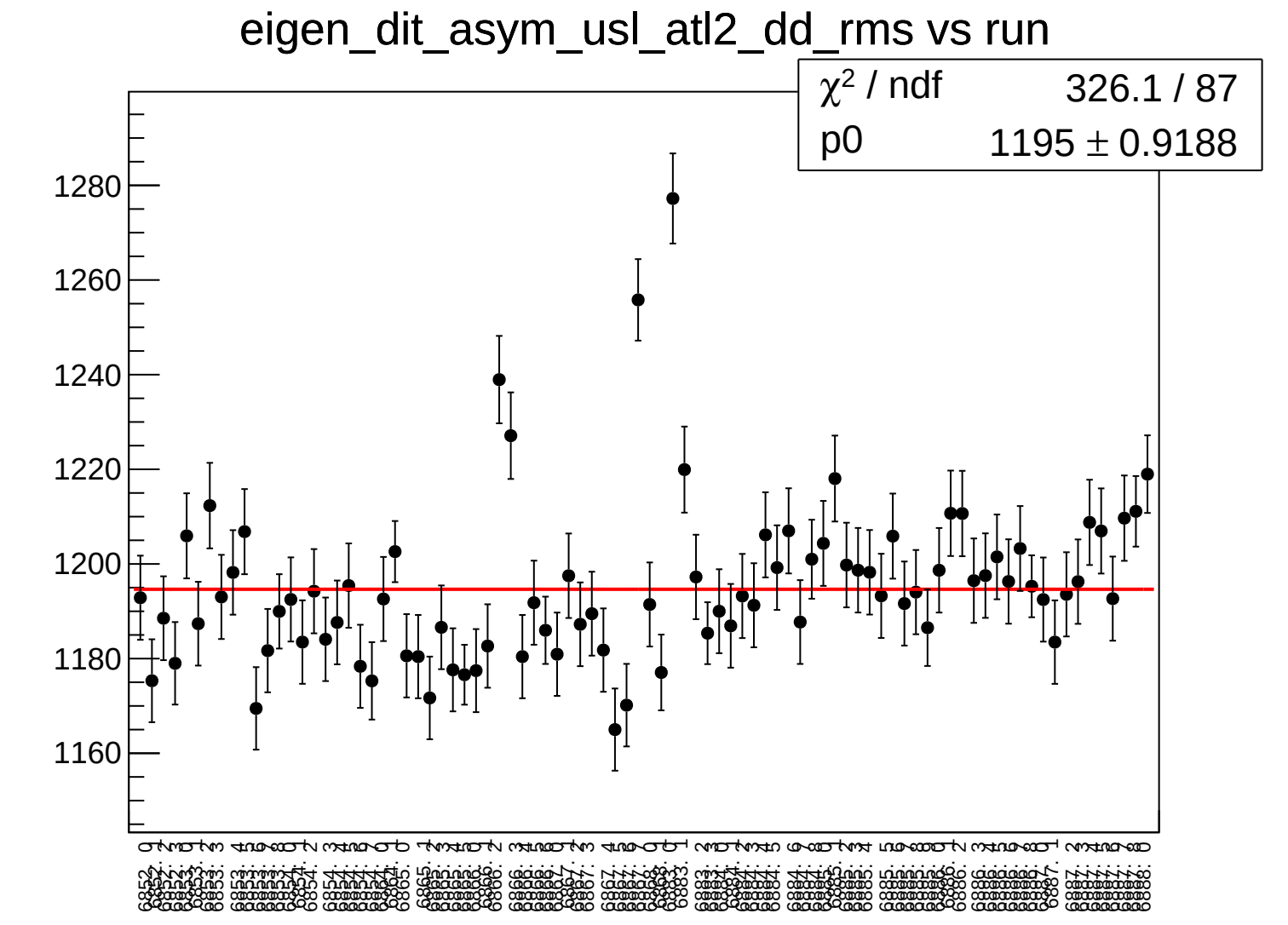

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.04 / 87
p0 3781 ± 4351
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean 45.7
Std Dev 0
2
1
0
−1
−2
−3

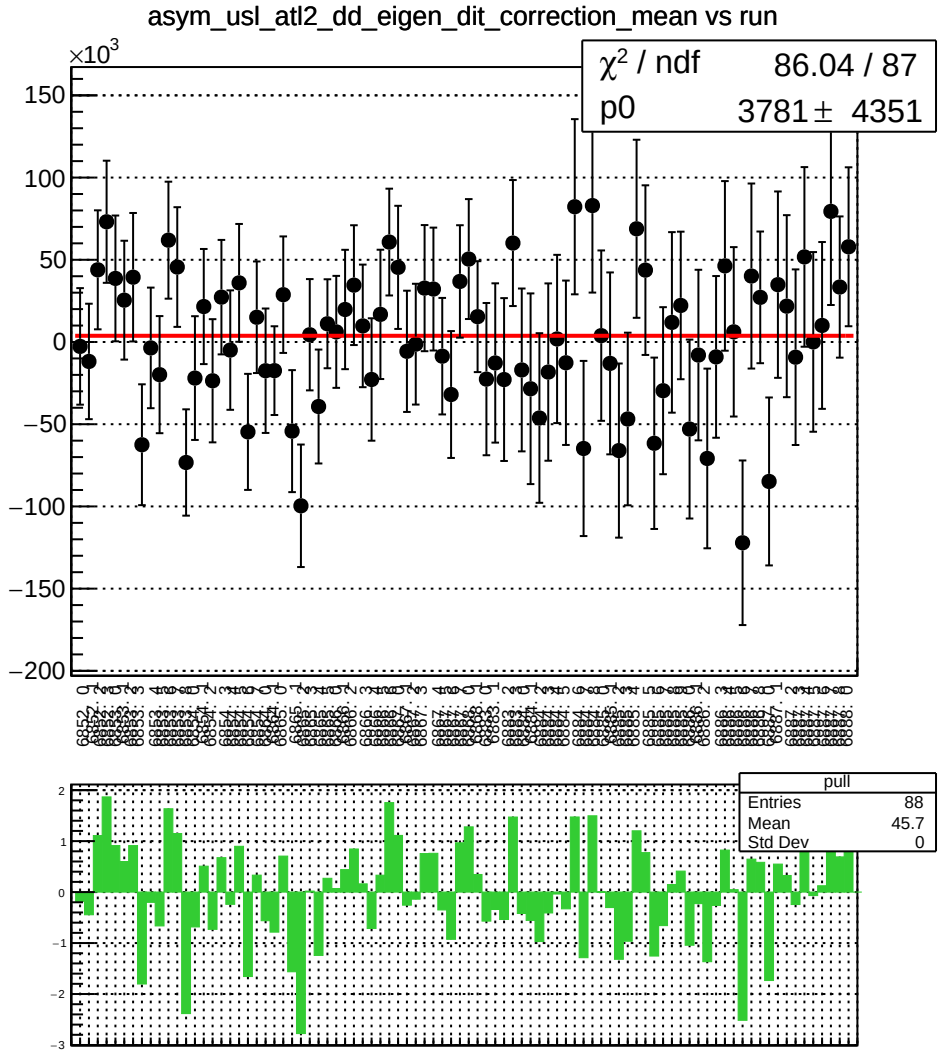

pull1D
Entries 88
Mean −0.01373
Std Dev 0.9887
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

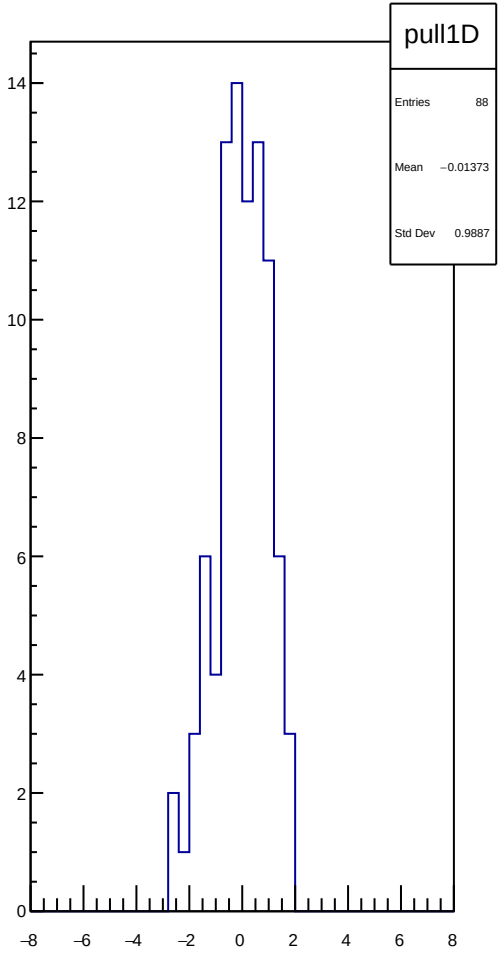

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 5.342e+04 / 87
p0 3937 ± 3.077
5500
5000
4500
4000
3500
3000

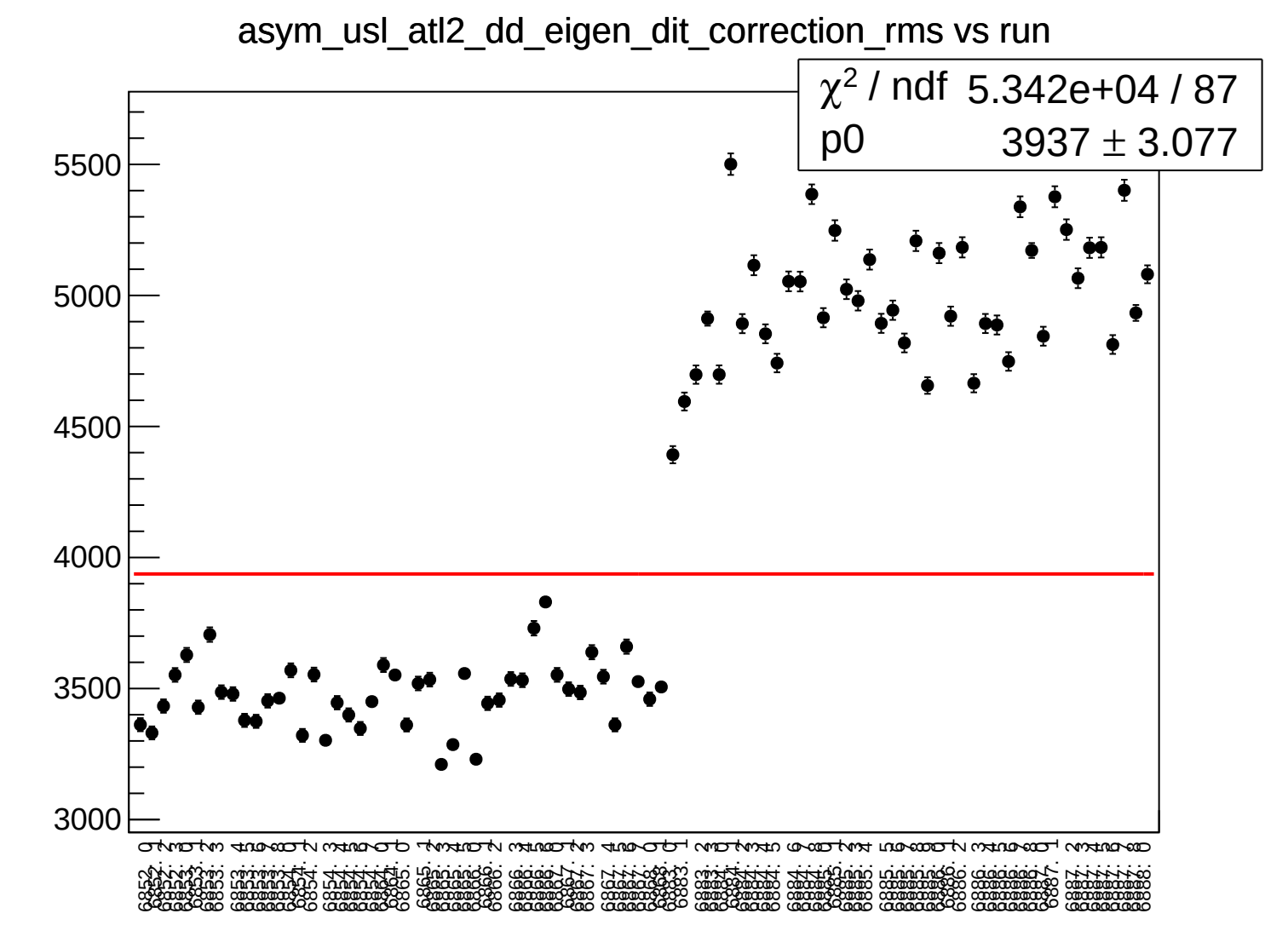

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 80.29 / 87
p0 1050 ± 1299
pull
Entries 88
Mean 702.2
Std Dev 0

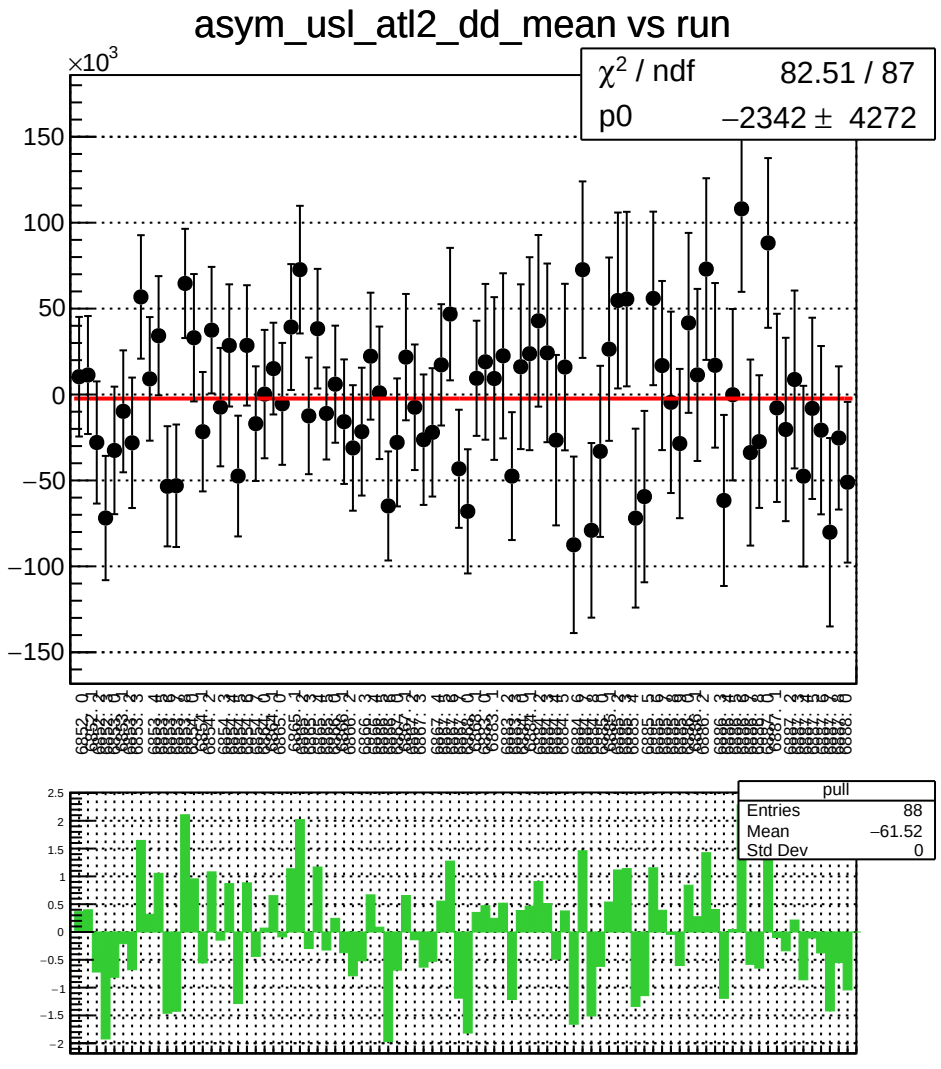

pull1D
Entries 88
Mean −0.004555
Std Dev 0.9552

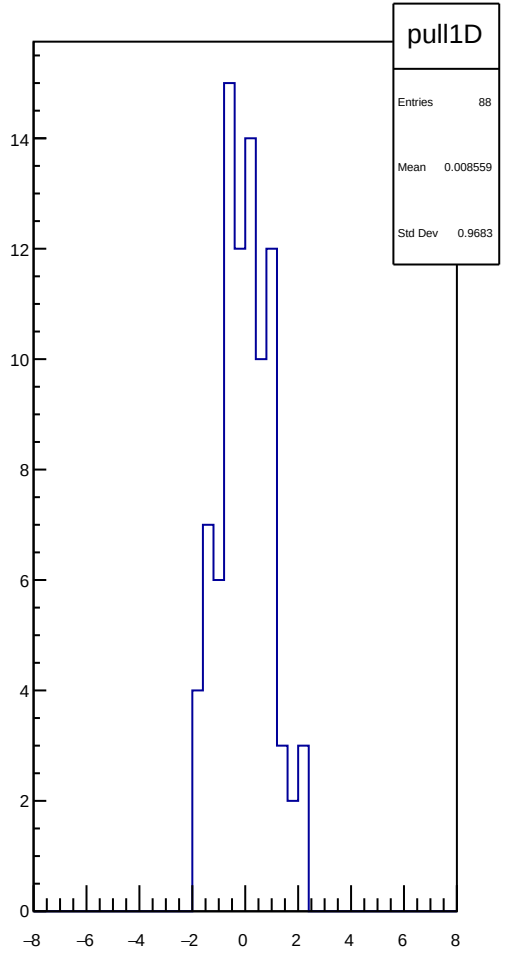

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 326.1 / 87
p0 1195 ± 0.9188
1280
1260
1240
1220
1200
1180
1160

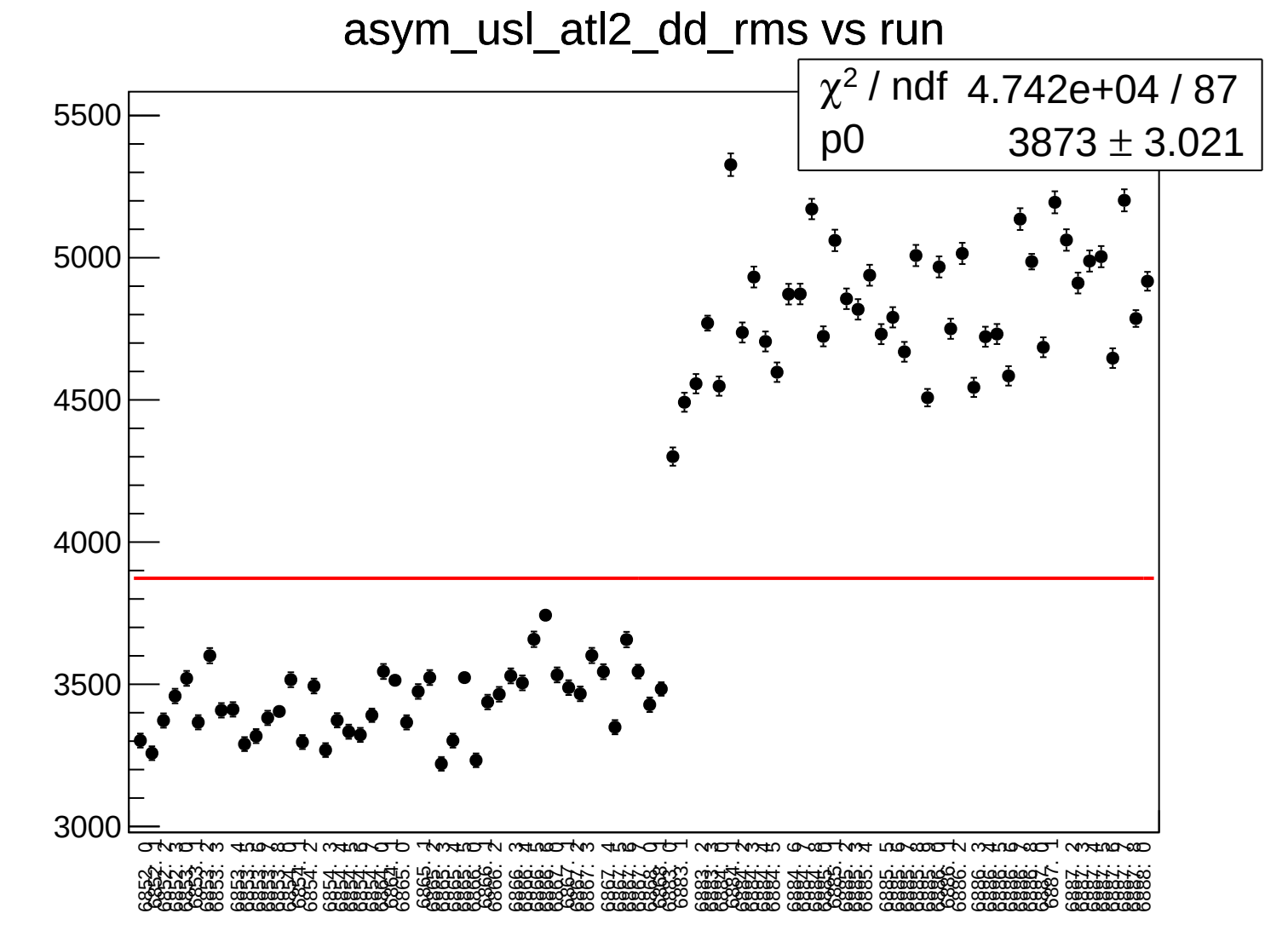

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.04 / 87
p0 3781 ± 4351
pull
Entries 88
Mean 45.7
Std Dev 0

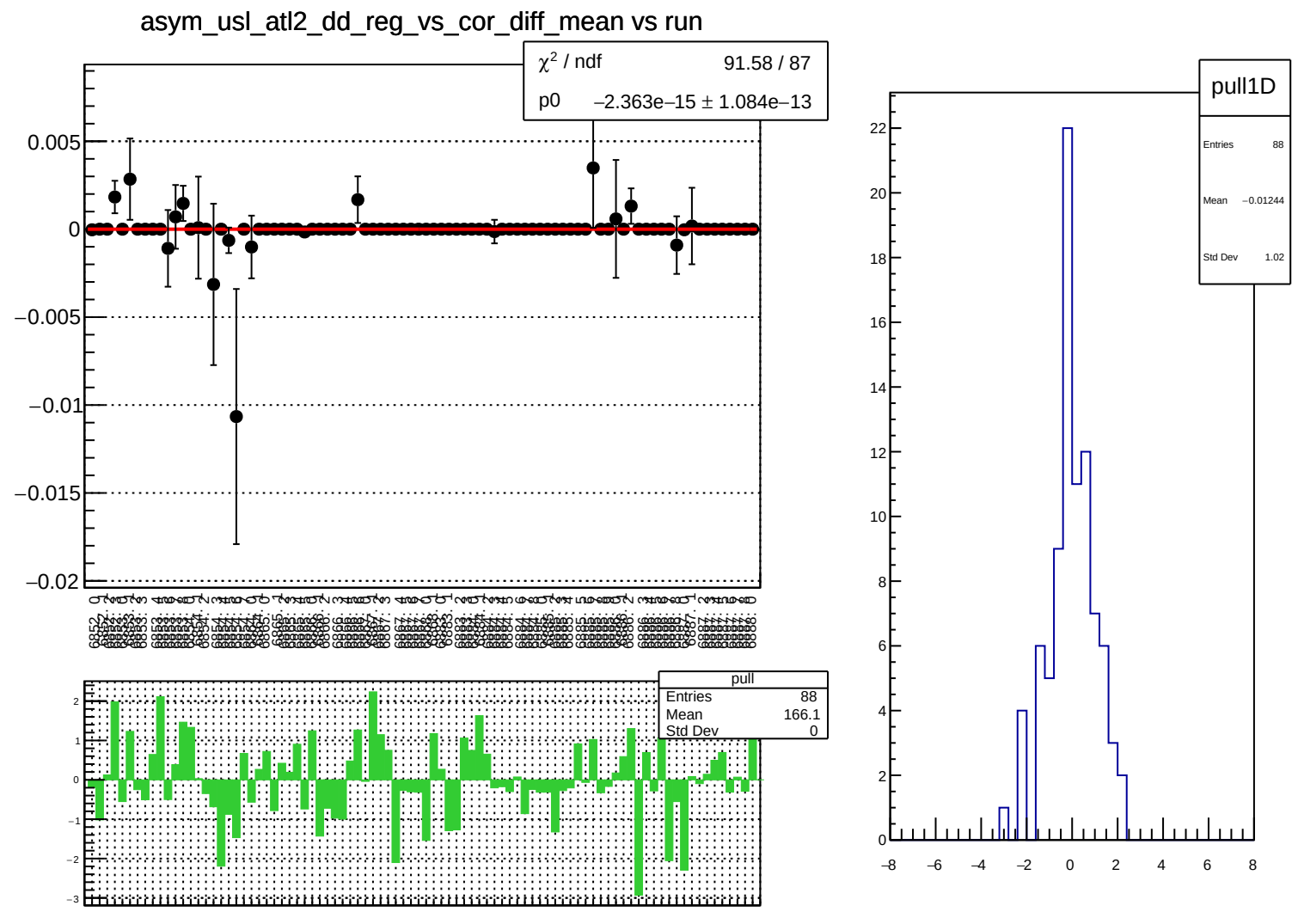

pull1D
Entries 88
Mean −0.01373
Std Dev 0.9887

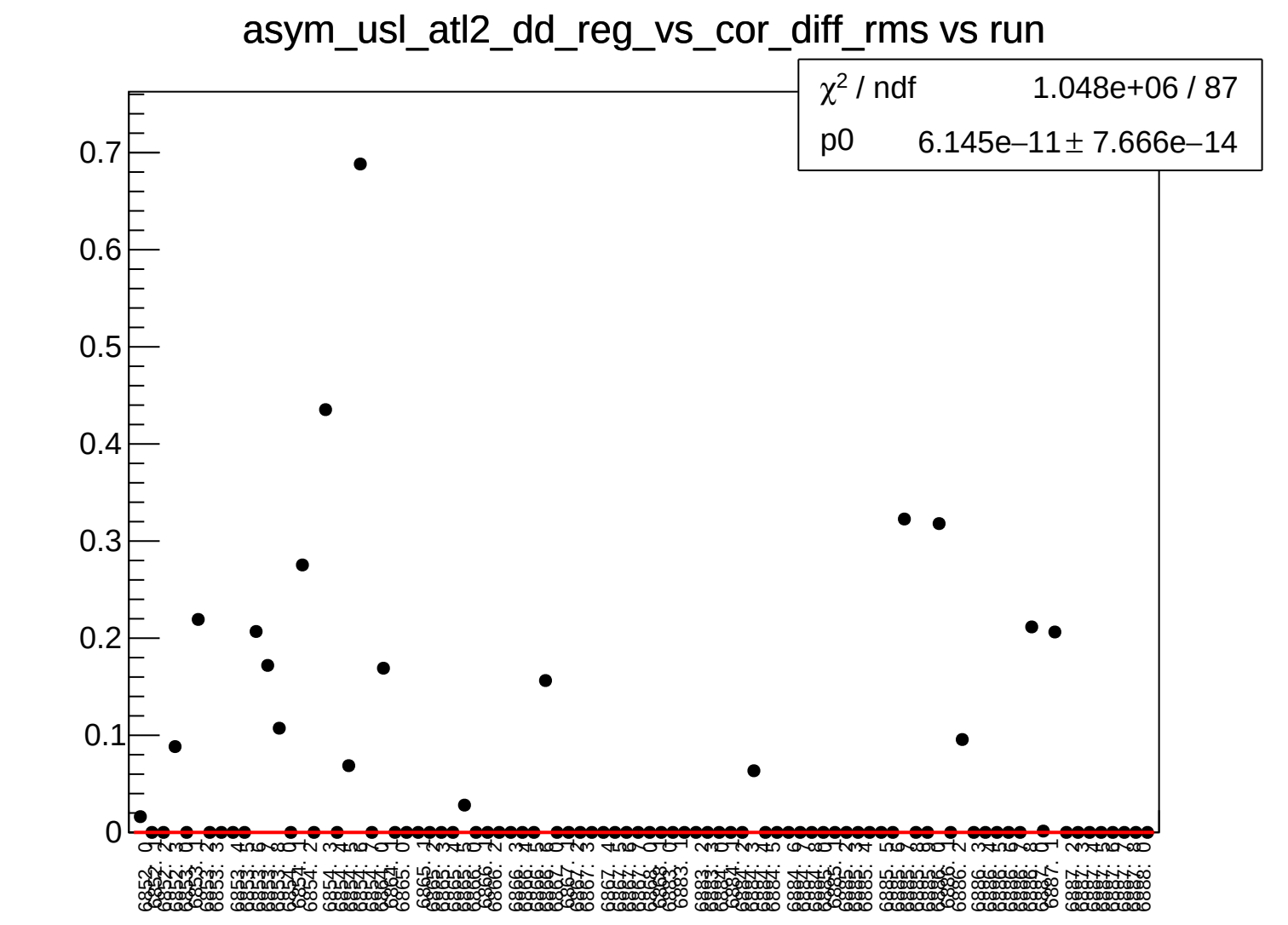

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.342e+04 / 87
p0 3937 ± 3.077
5500
5000
4500
4000
3500
3000

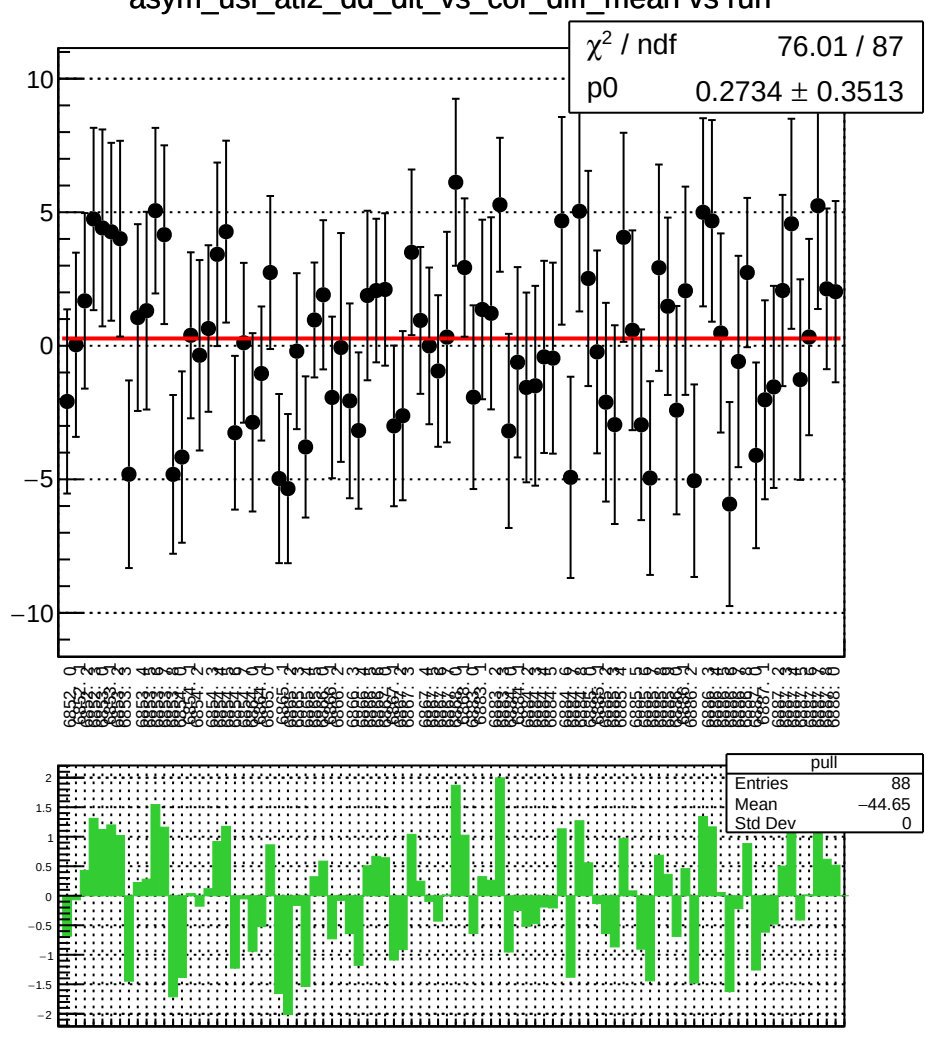

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 82.51 / 87
p0 −2342 ± 4272
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −61.52
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

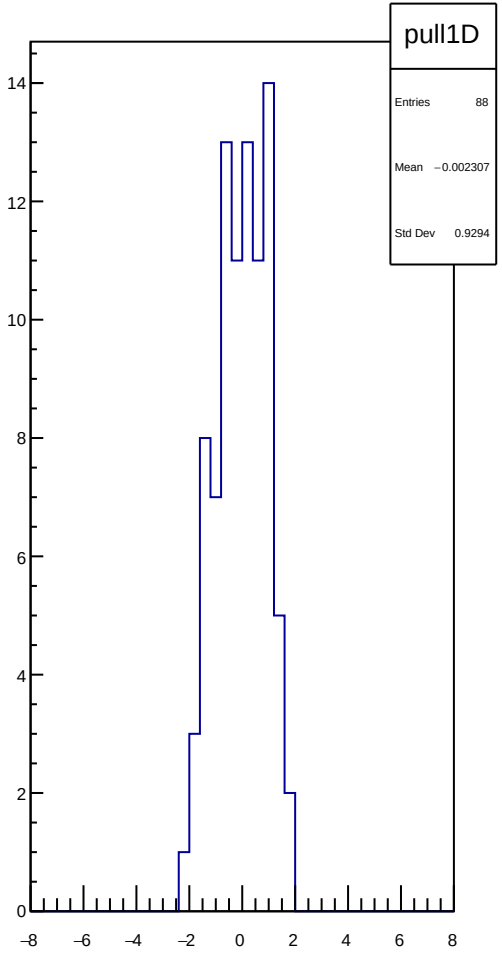

pull1D
Entries 88
Mean 0.008559
Std Dev 0.9683
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

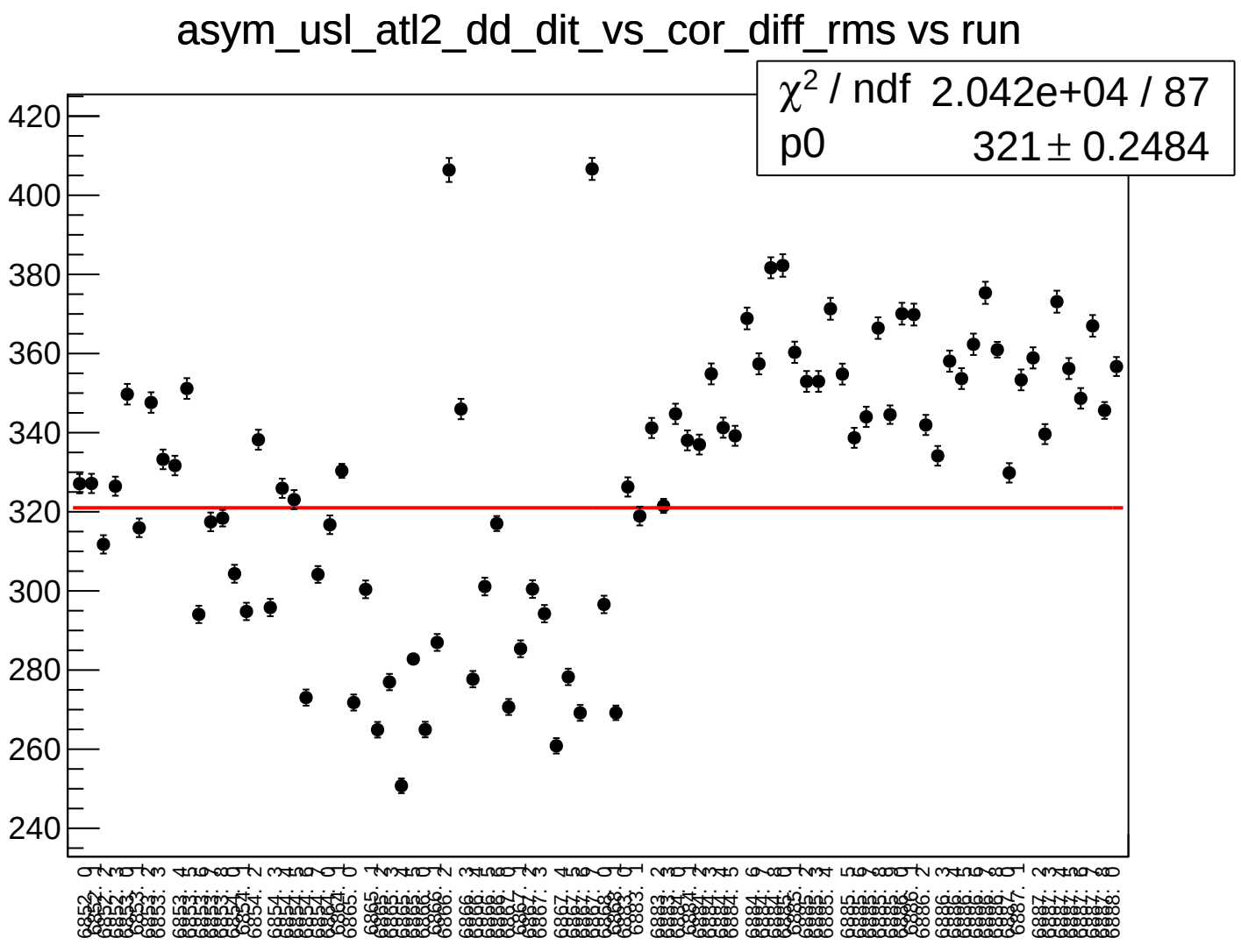

asym_usl_atl2_dd_rms vs run
χ² / ndf 4.742e+04 / 87
p0 3873 ± 3.021
5500
5000
4500
4000
3500
3000

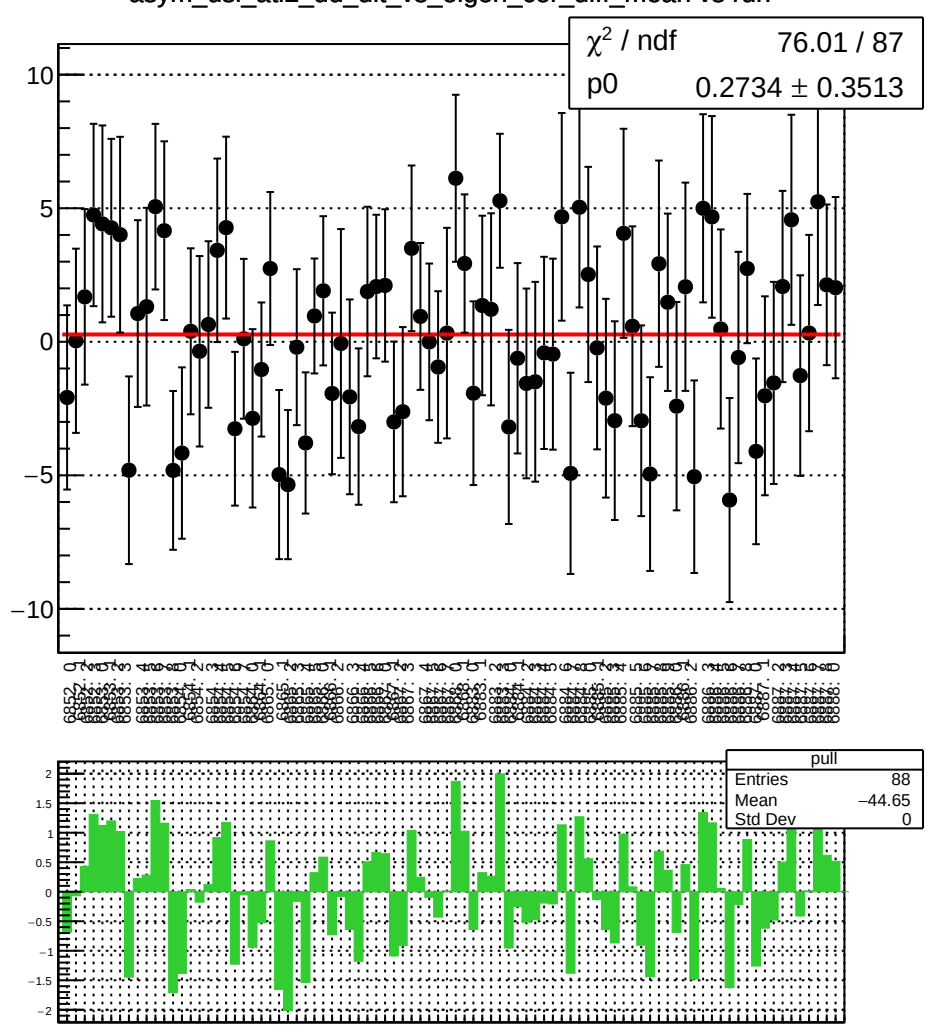

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.58 / 87
p0 −2.363e−15 ± 1.084e−13
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 88
Mean 166.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01244
Std Dev 1.02
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

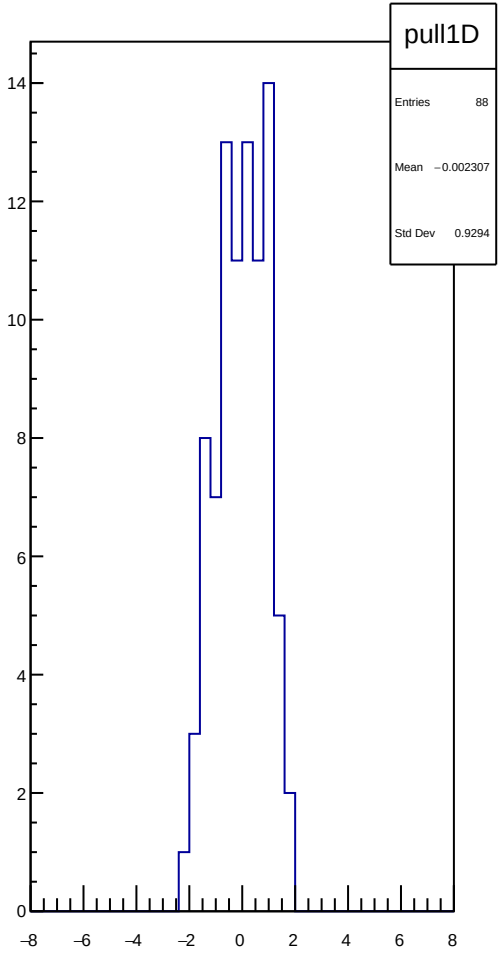

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.048e+06 / 87
p0 6.145e−11 ± 7.666e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

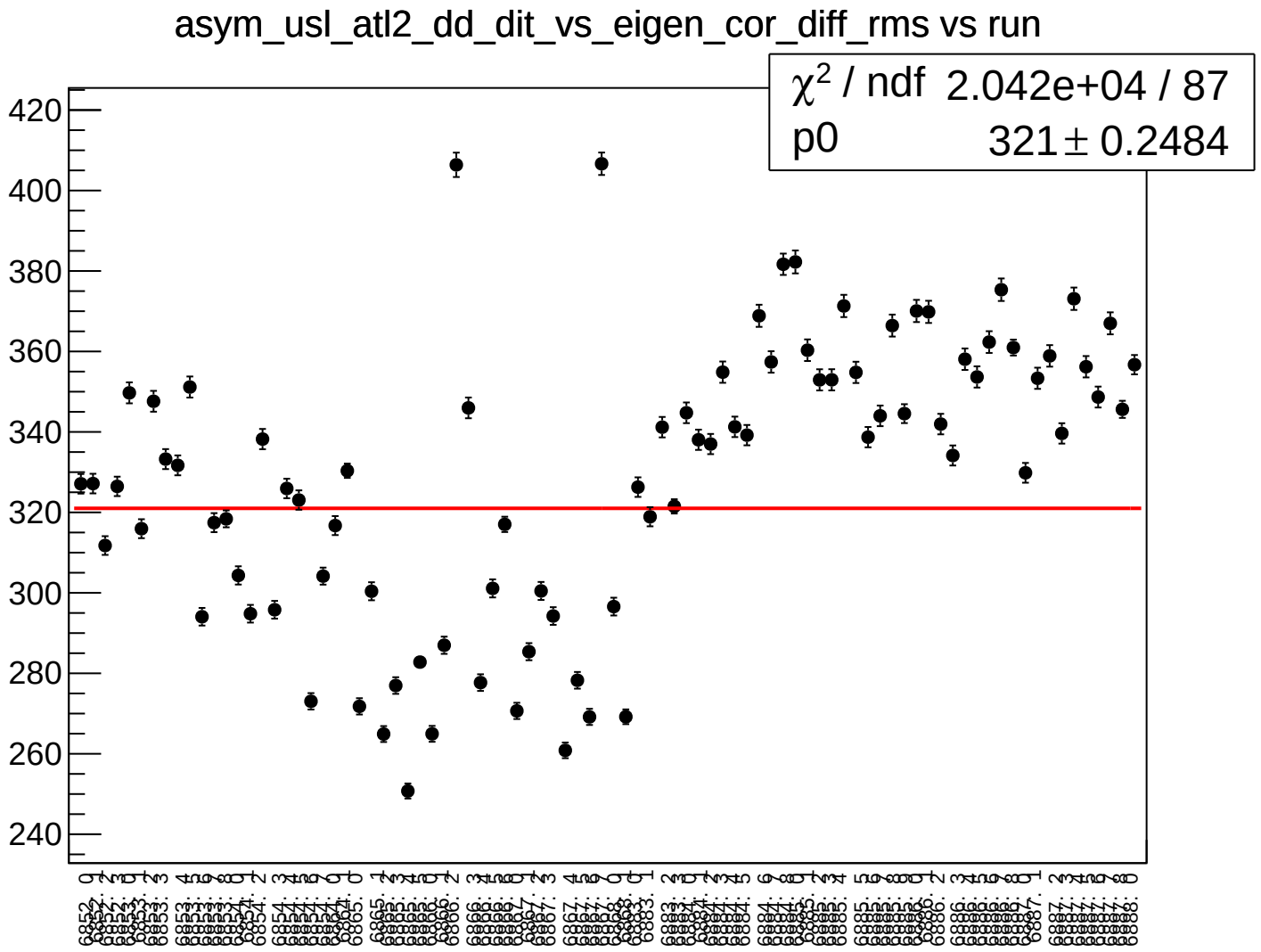

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.01 / 87
p0 0.2734 ± 0.3513
pull
Entries 88
Mean −44.65
Std Dev 0

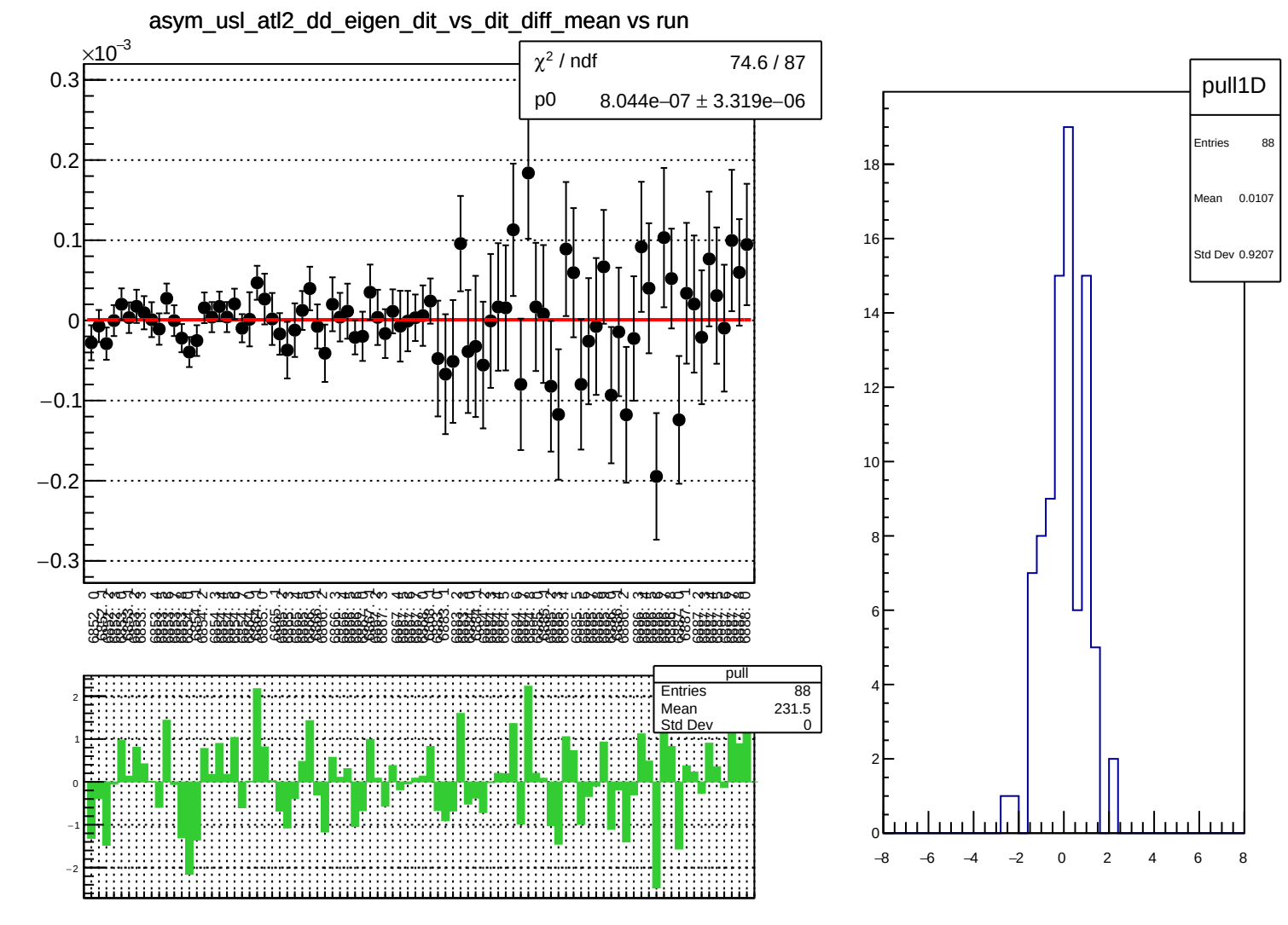

pull1D
Entries 88
Mean −0.002307
Std Dev 0.9294

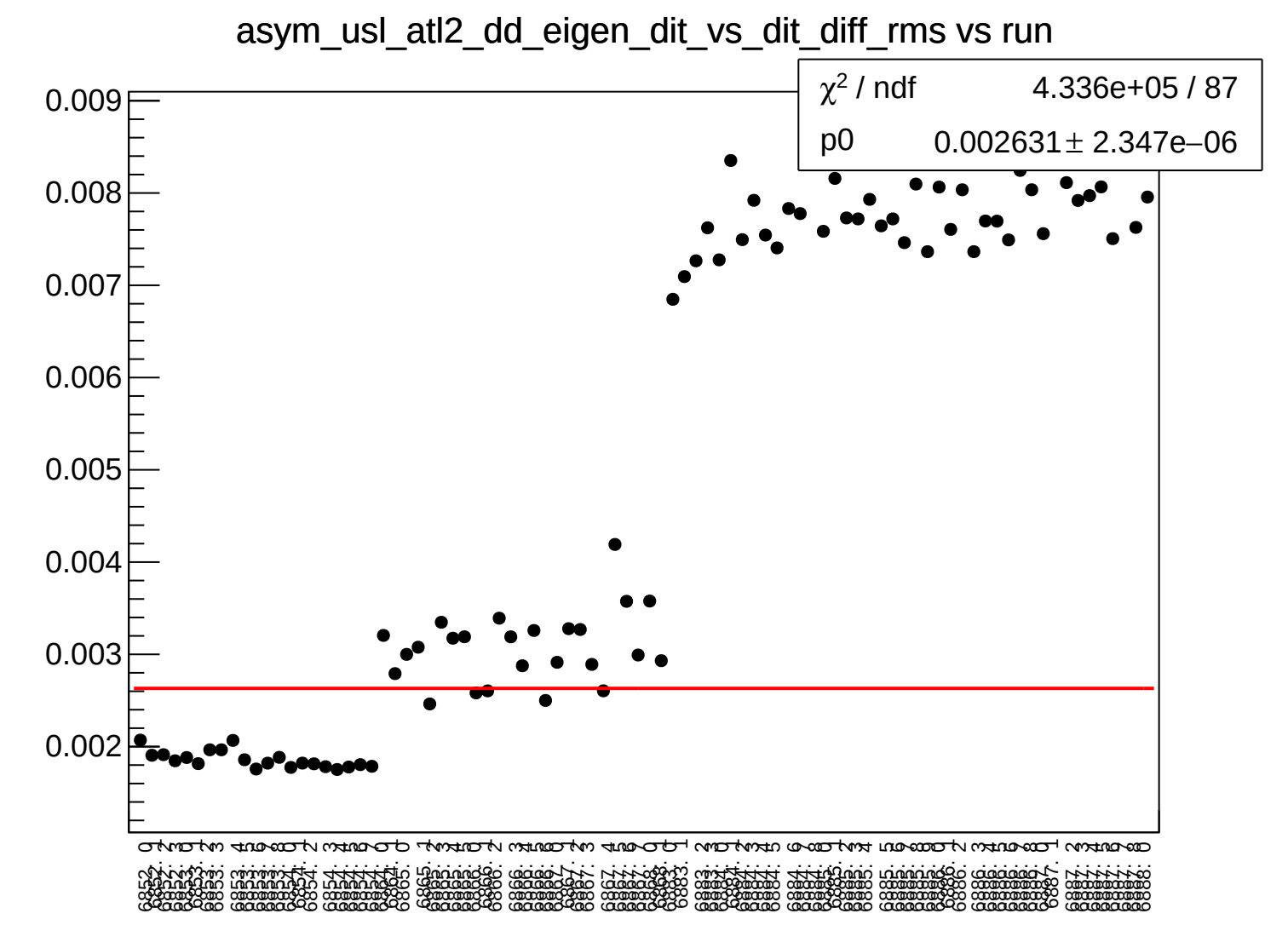

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.042e+04 / 87
p0 321 ± 0.2484
420
400
380
360
340
320
300
280
260
240

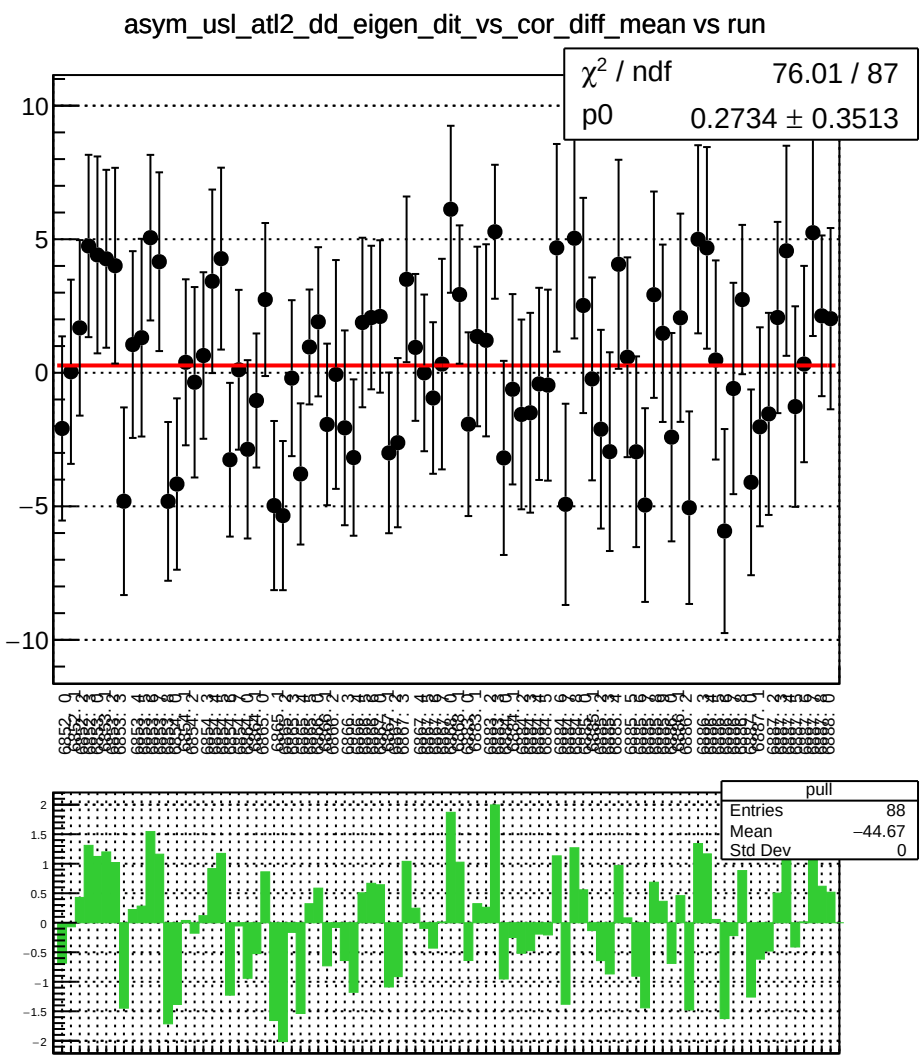

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.01 / 87
p0 0.2734 ± 0.3513
pull
Entries 88
Mean −44.65
Std Dev 0

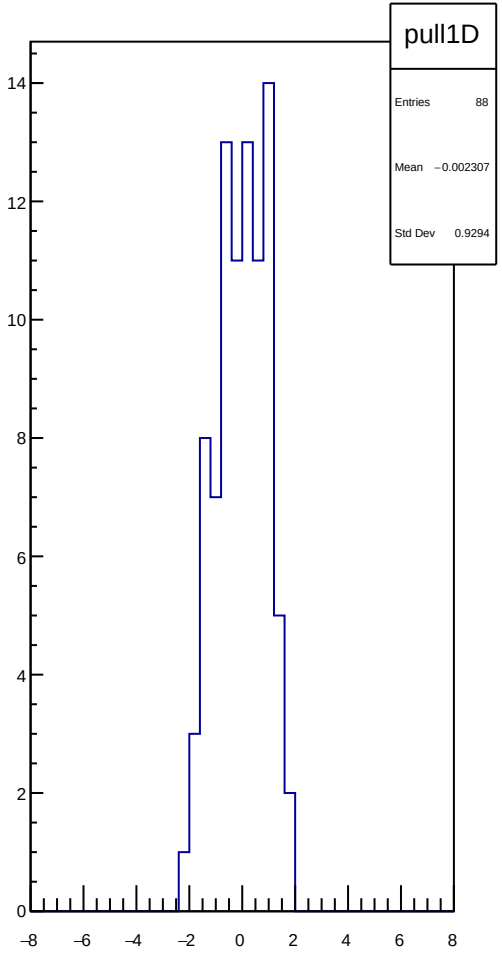

pull1D
Entries 88
Mean −0.002307
Std Dev 0.9294

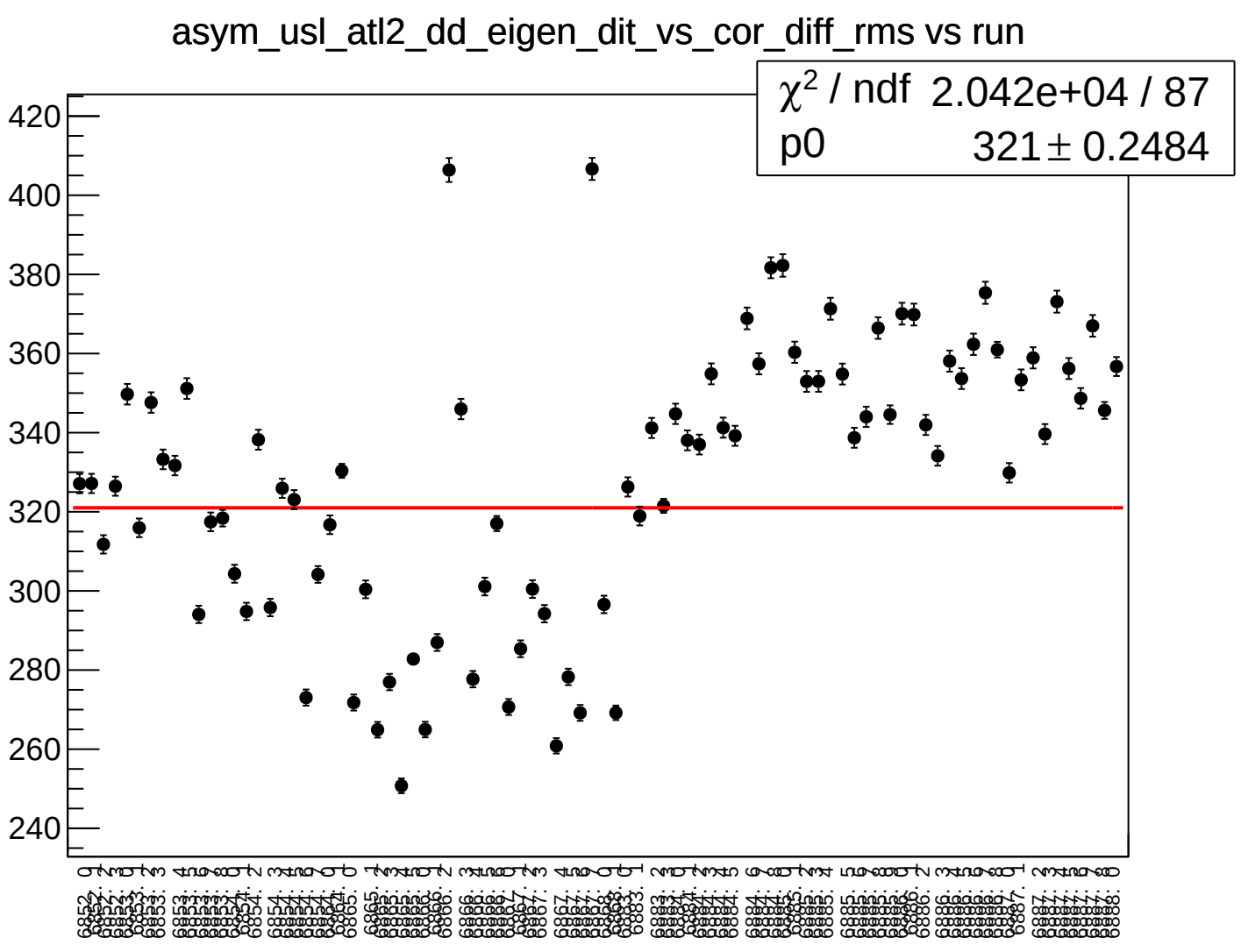

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.042e+04 / 87
p0 321 ± 0.2484
420
400
380
360
340
320
300
280
260
240

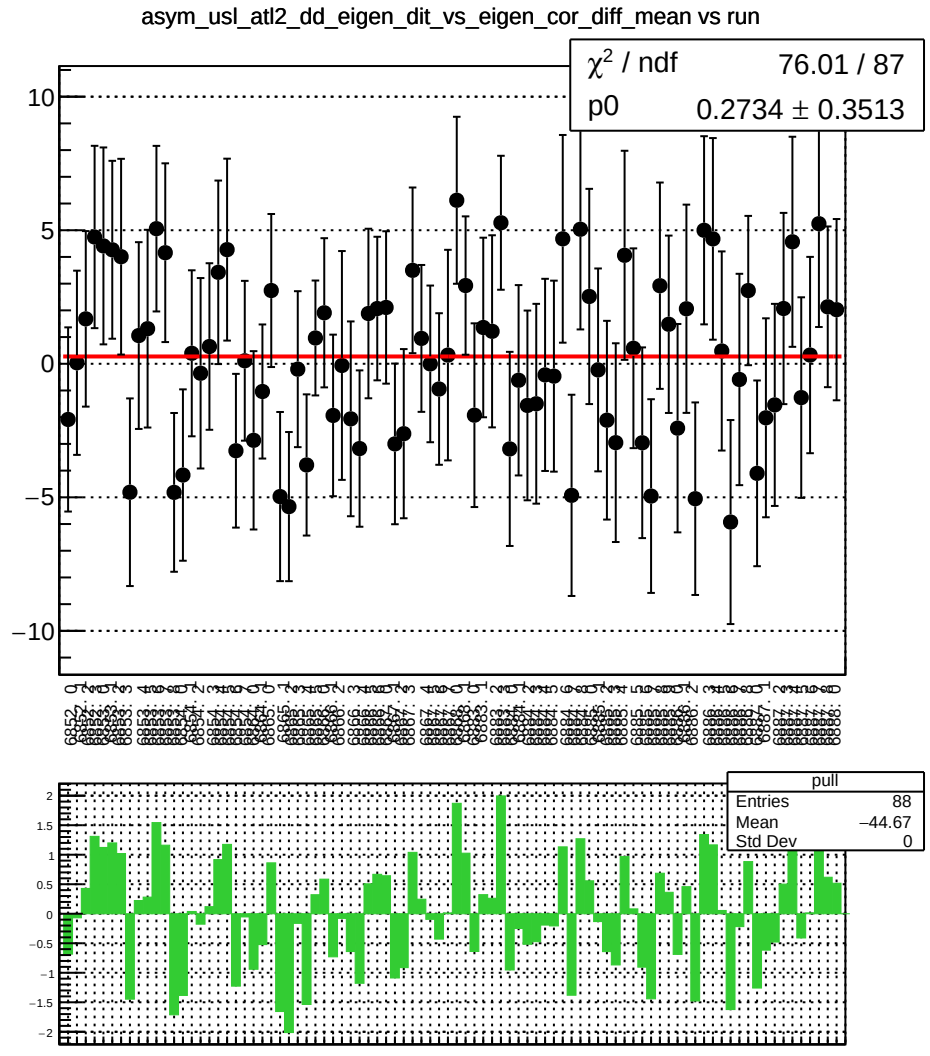

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 74.6 / 87
p0 8.044e−07 ± 3.319e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 88
Mean 231.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0107
Std Dev 0.9207
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

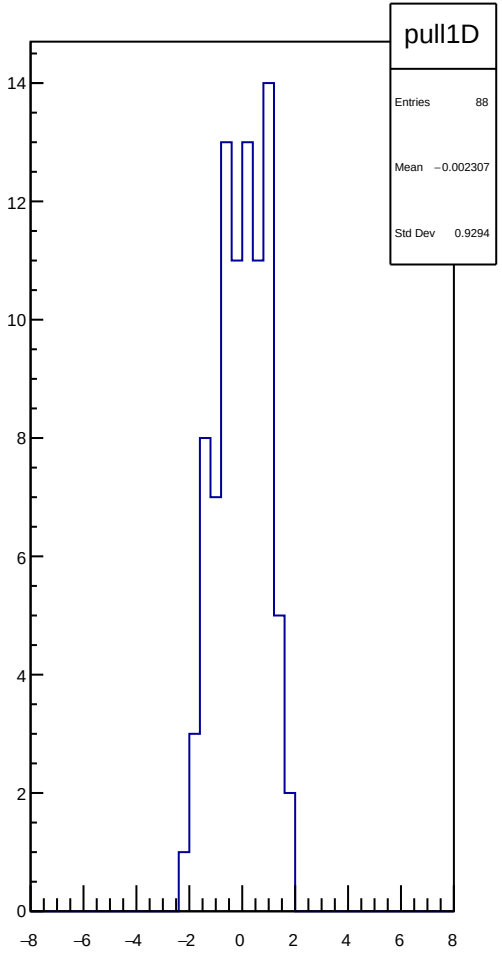

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.336e+05 / 87
p0 0.002631 ± 2.347e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

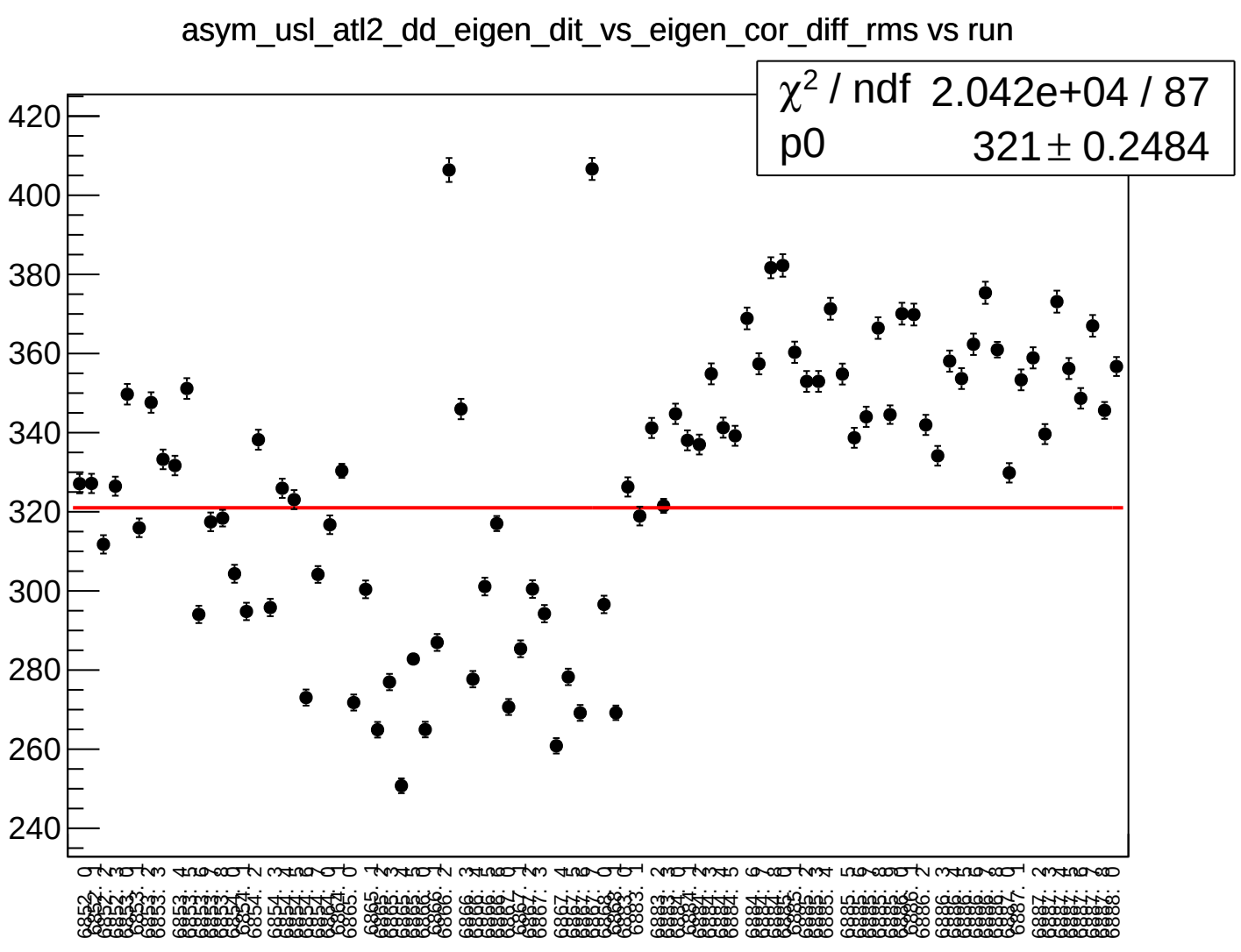

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.01 / 87
p0 0.2734 ± 0.3513
pull
Entries 88
Mean −44.67
Std Dev 0

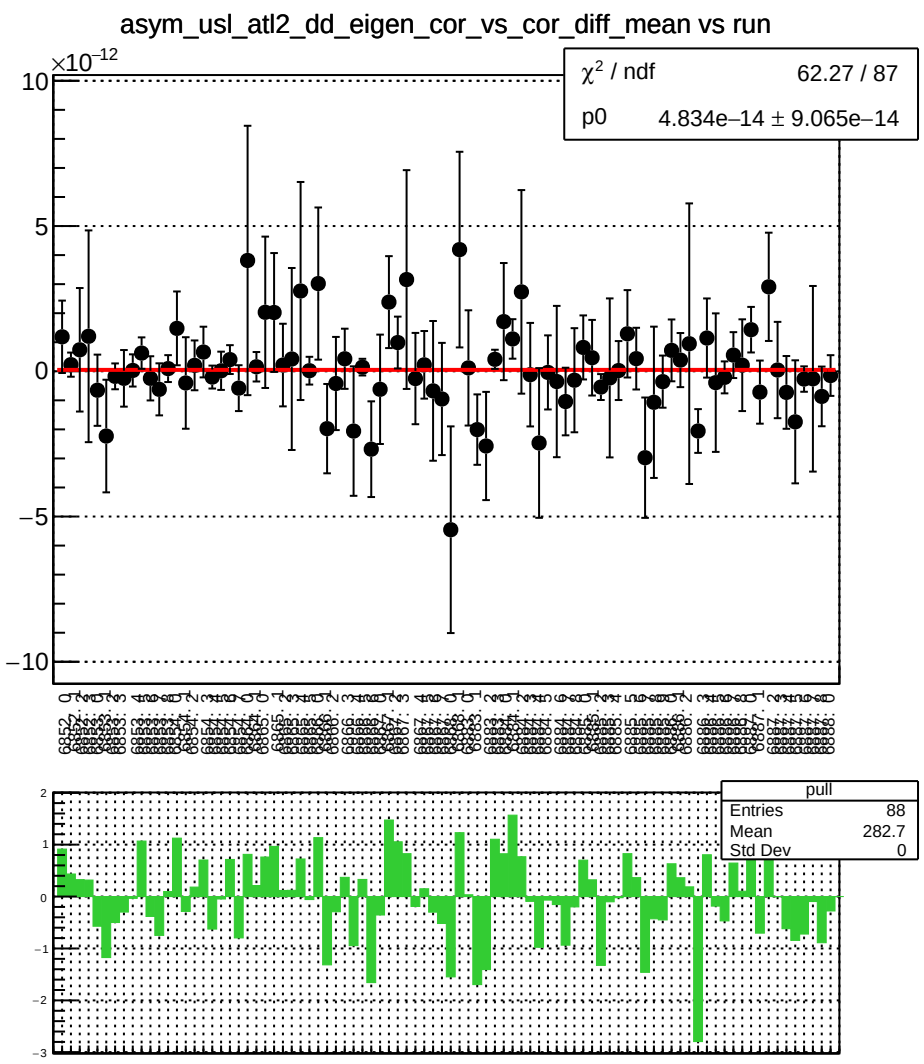

pull1D
Entries 88
Mean −0.002307
Std Dev 0.9294

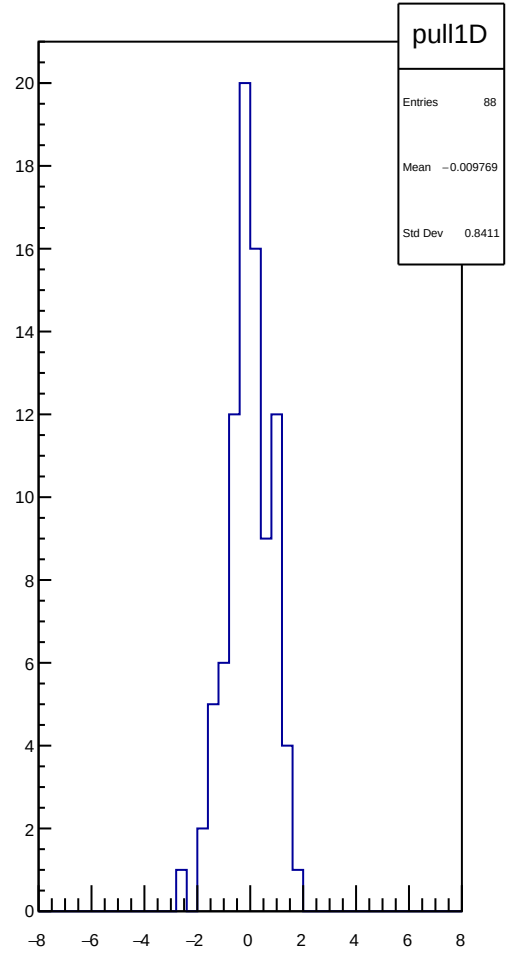

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.042e+04 / 87
p0 321 ± 0.2484
420
400
380
360
340
320
300
280
260
240

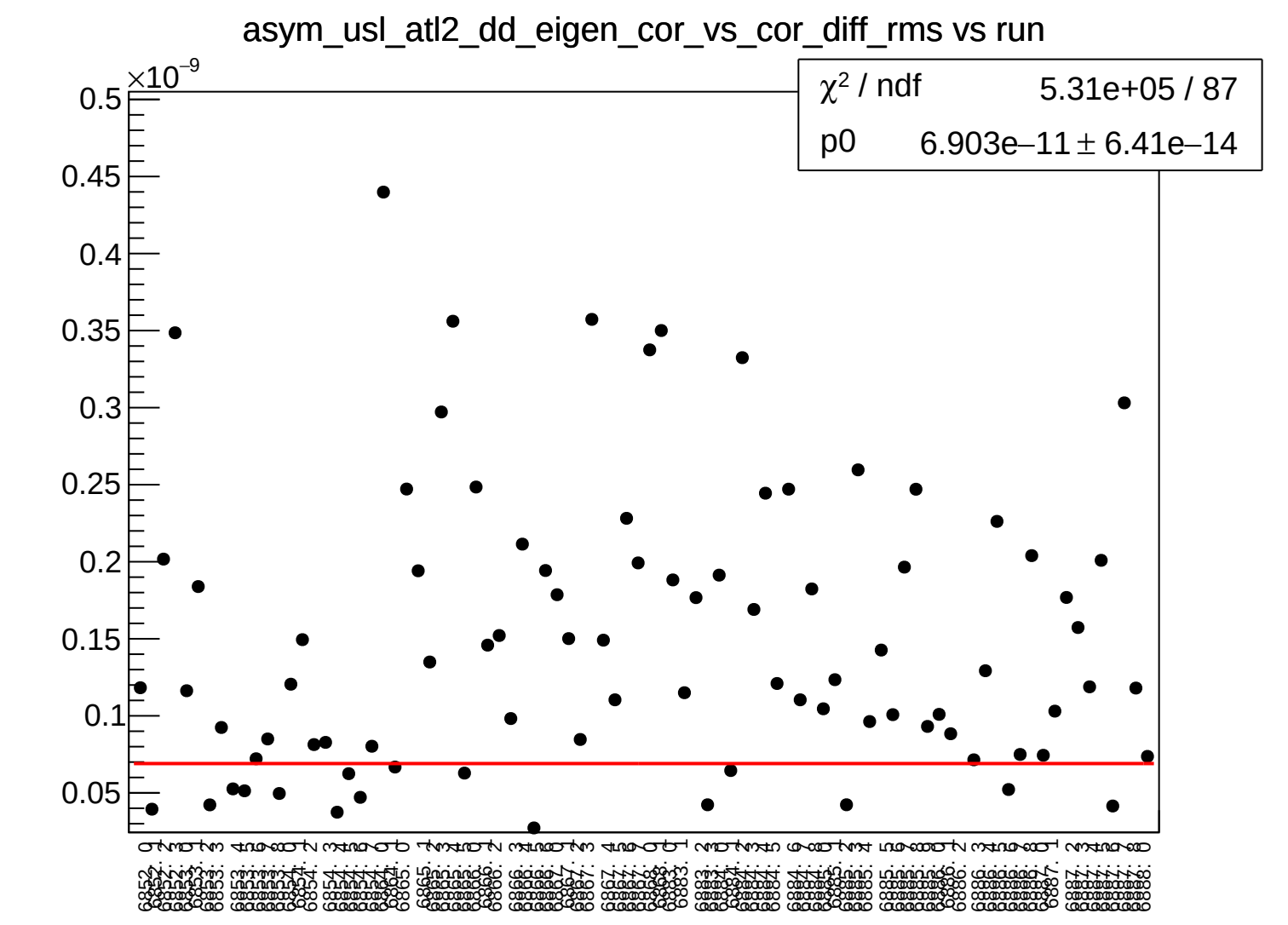

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.01 / 87
p0 0.2734 ± 0.3513
pull
Entries 88
Mean −44.67
Std Dev 0

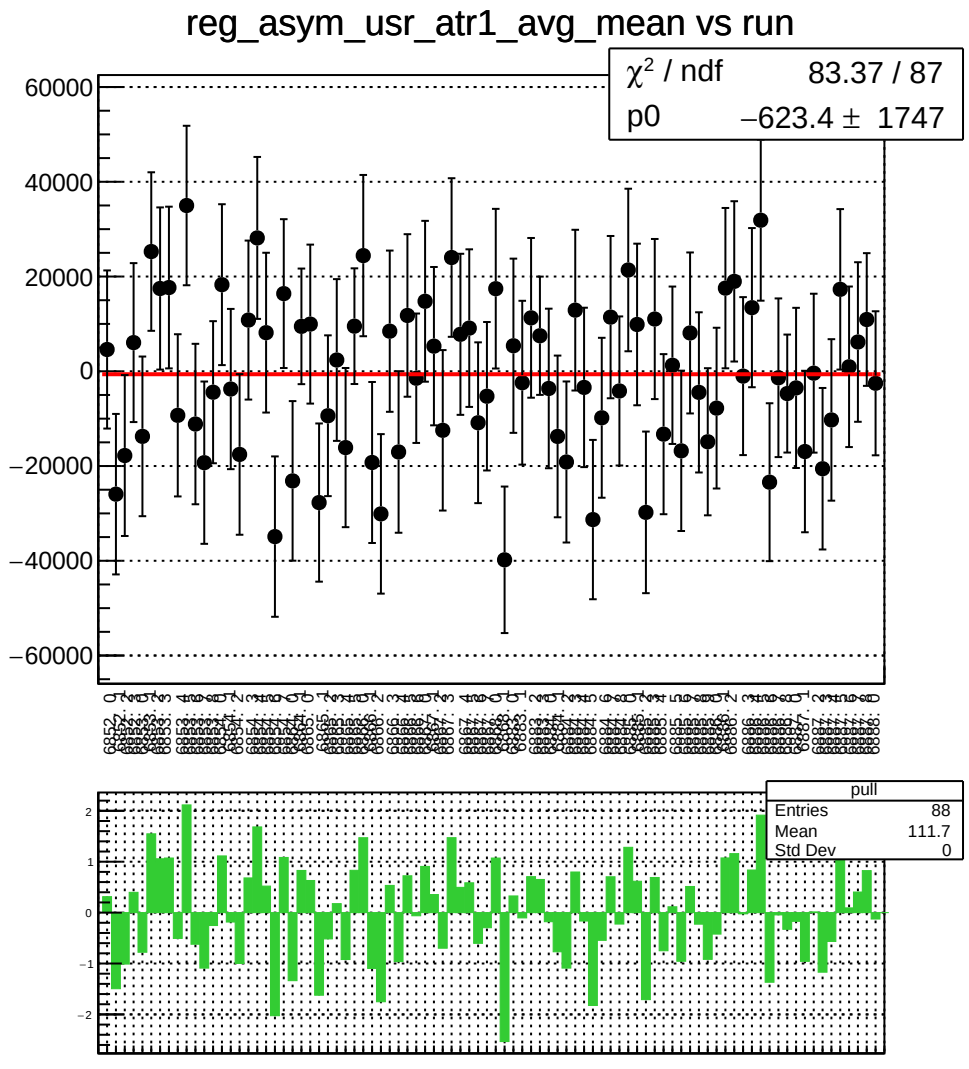

pull1D
Entries 88
Mean −0.002307
Std Dev 0.9294

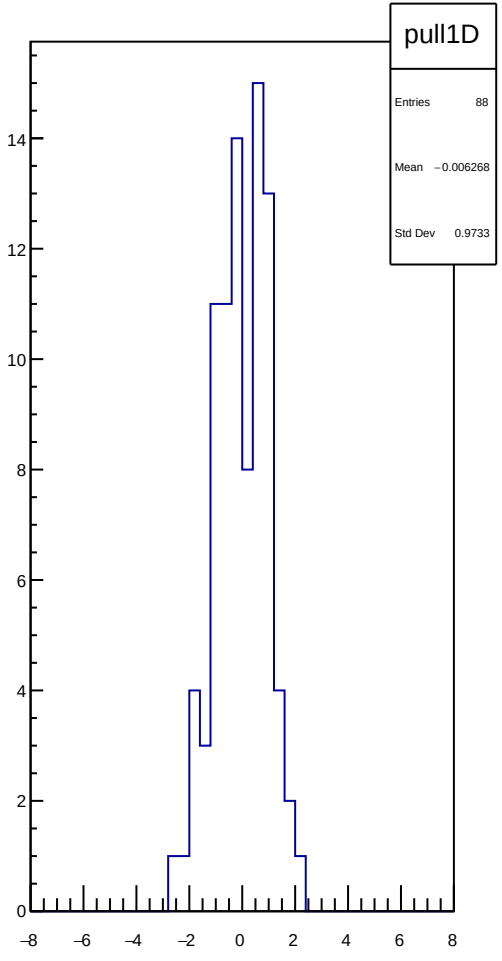

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.042e+04 / 87
p0 321 ± 0.2484
420
400
380
360
340
320
300
280
260
240

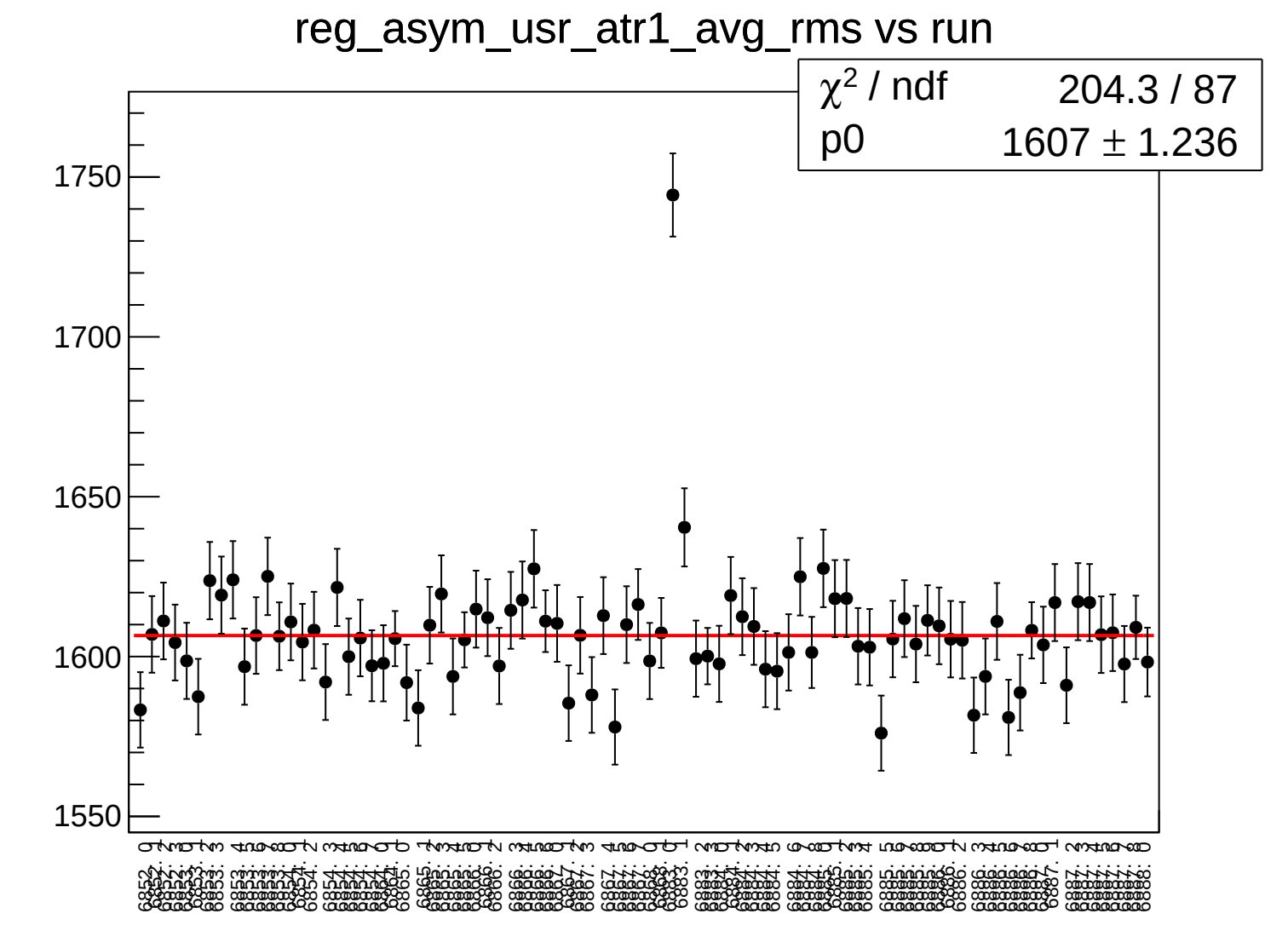

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 62.27 / 87
p0 4.834e−14 ± 9.065e−14
pull
Entries 88
Mean 282.7
Std Dev 0

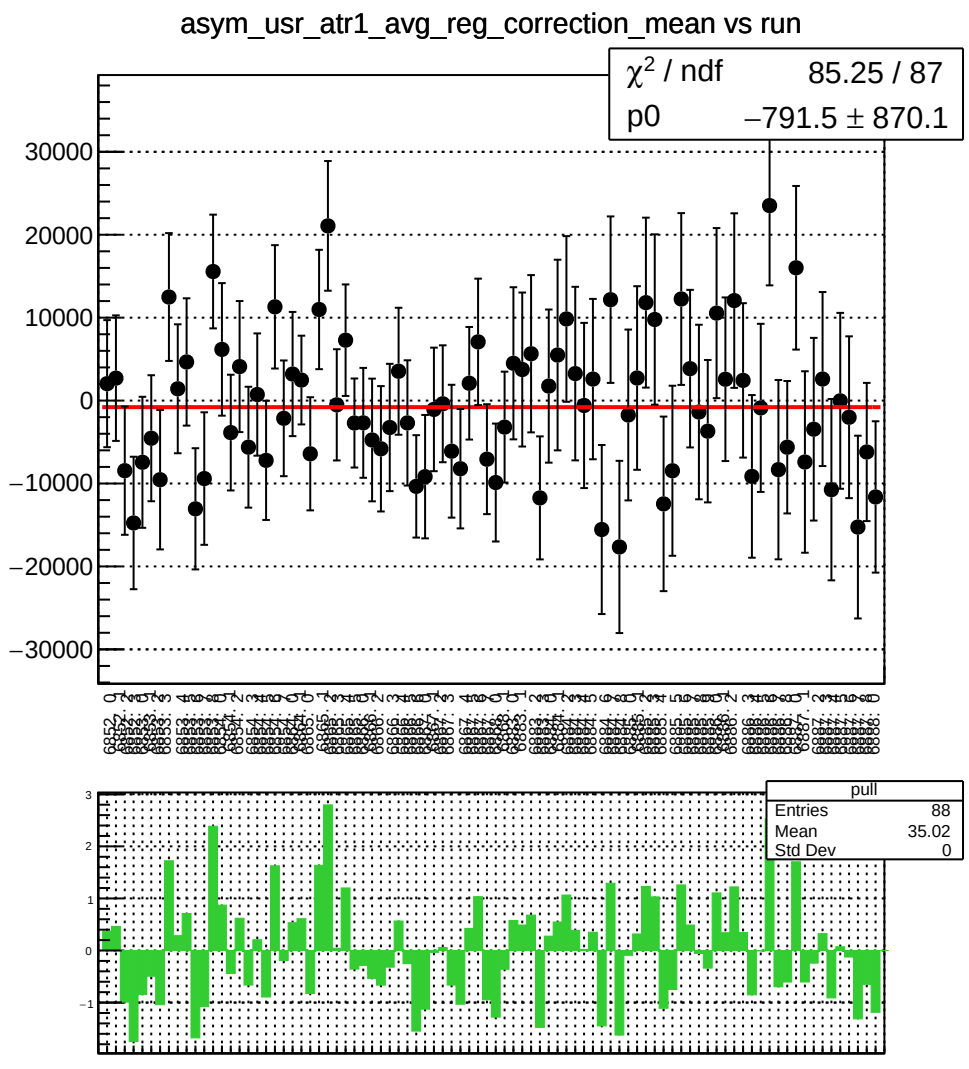

pull1D
Entries 88
Mean −0.009769
Std Dev 0.8411

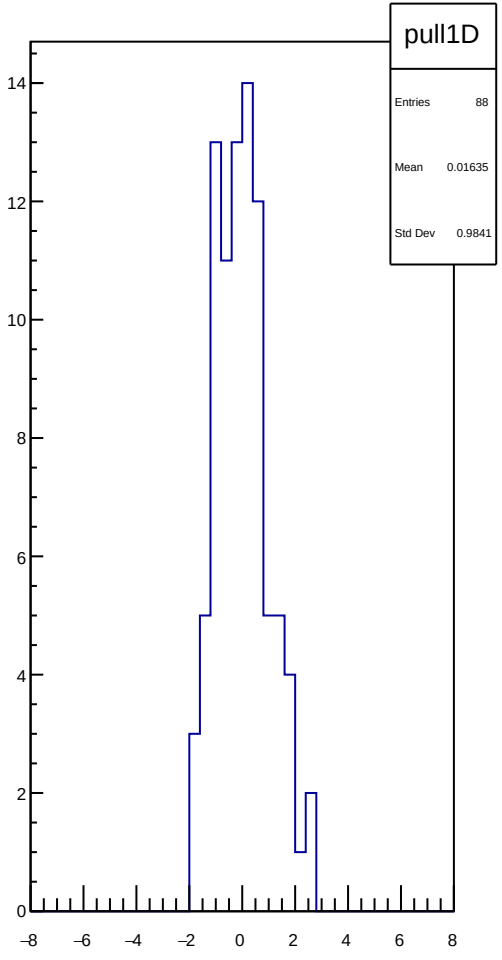

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.31e+05 / 87
p0 6.903e−11 ± 6.41e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

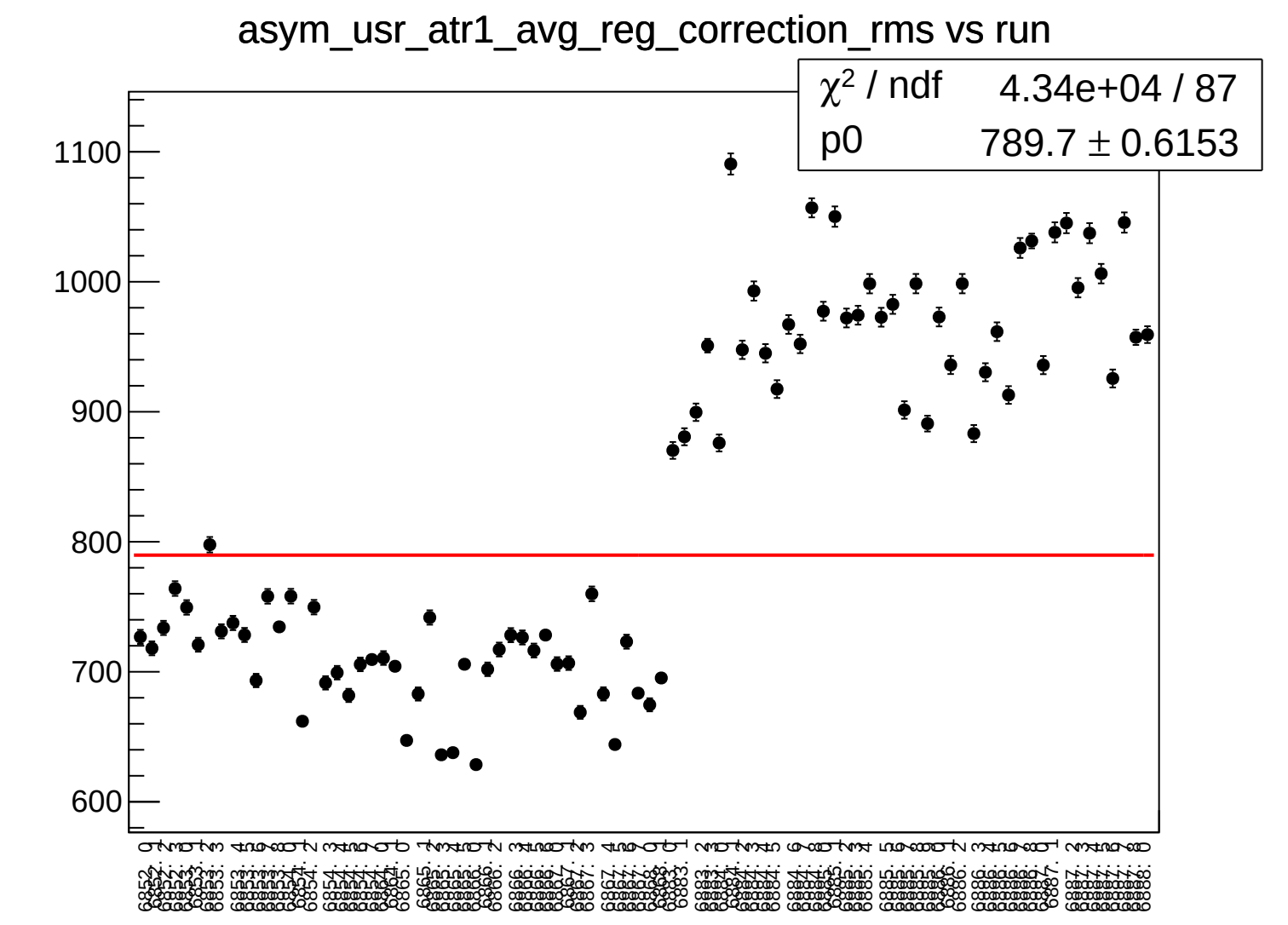

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 83.37 / 87
p0 −623.4 ± 1747
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 111.7
Std Dev 0
2
1
0
−1
−2

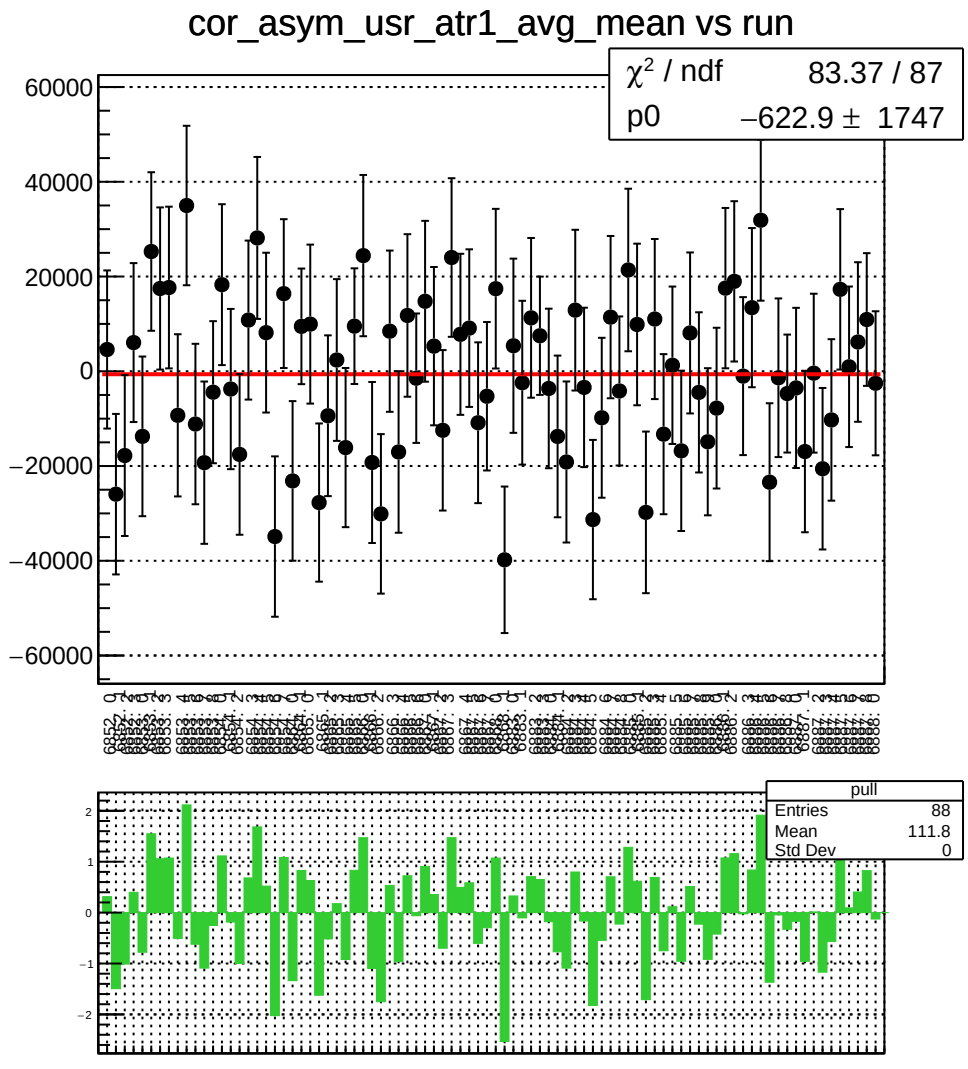

pull1D
Entries 88
Mean −0.006268
Std Dev 0.9733
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

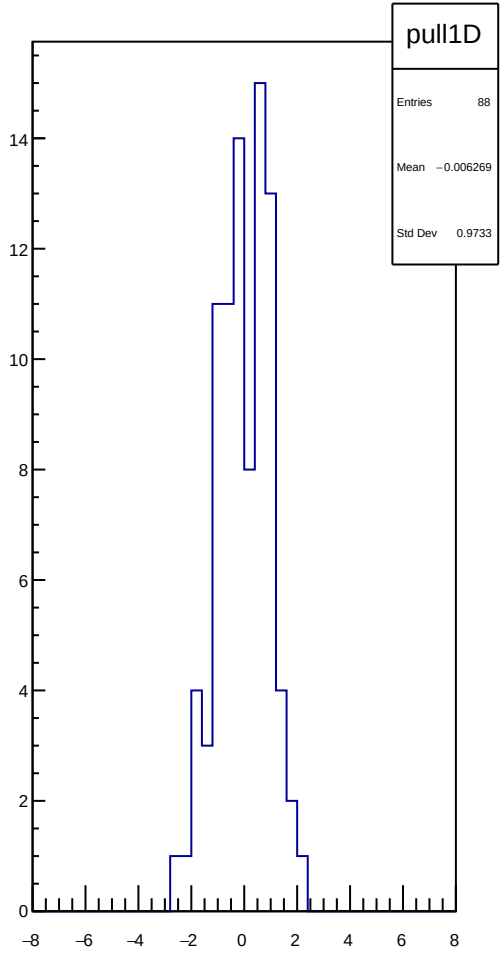

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 204.3 / 87
p0 1607 ± 1.236
1750
1700
1650
1600
1550

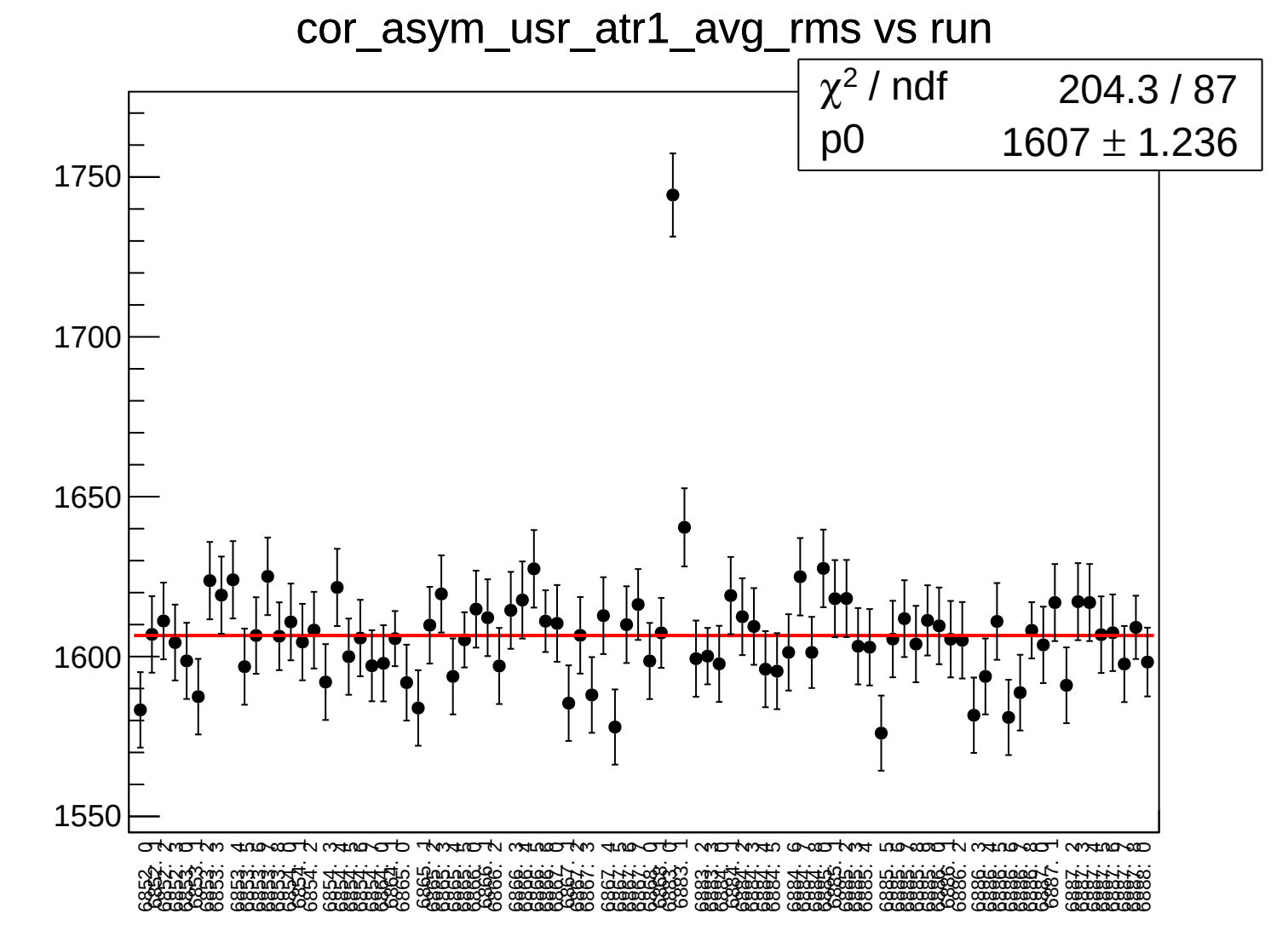

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 85.25 / 87
p0 −791.5 ± 870.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 35.02
Std Dev 0
3
2
1
0
−1

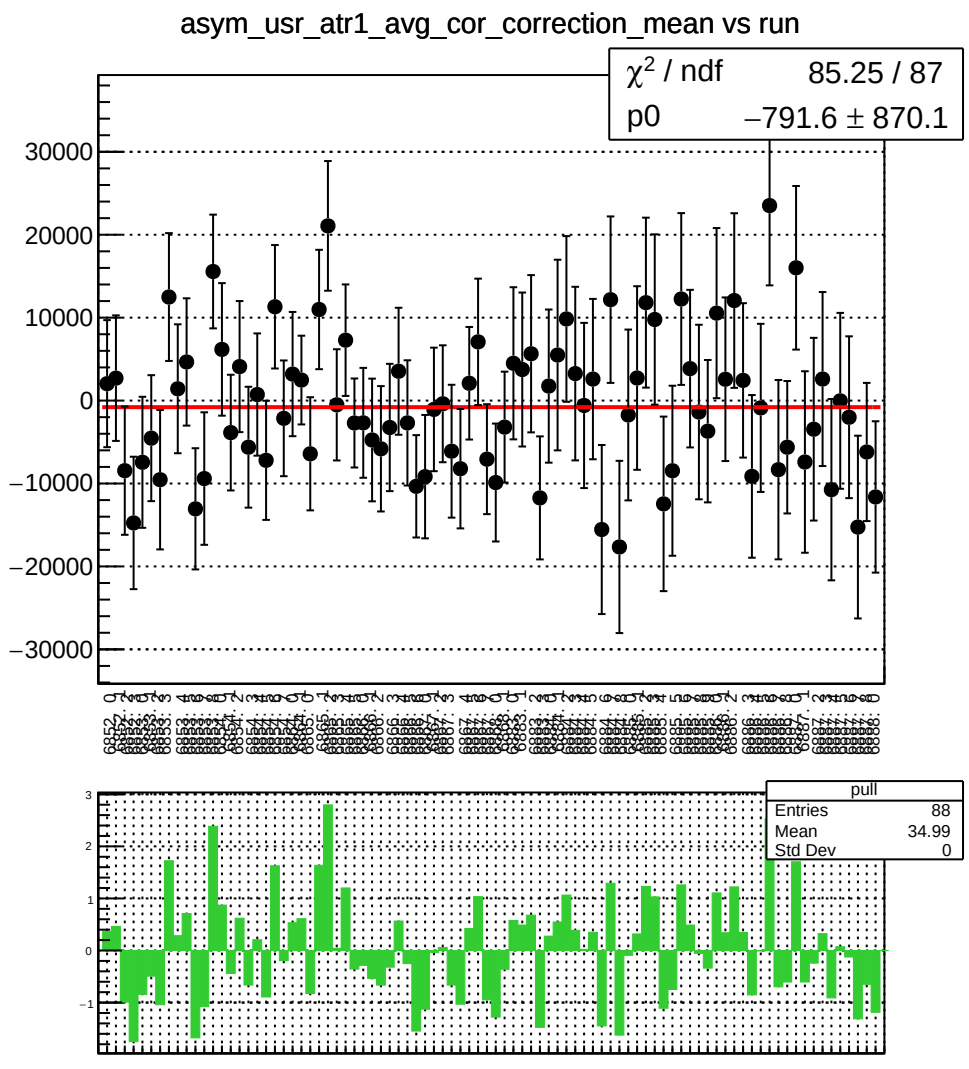

pull1D
Entries 88
Mean 0.01635
Std Dev 0.9841
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

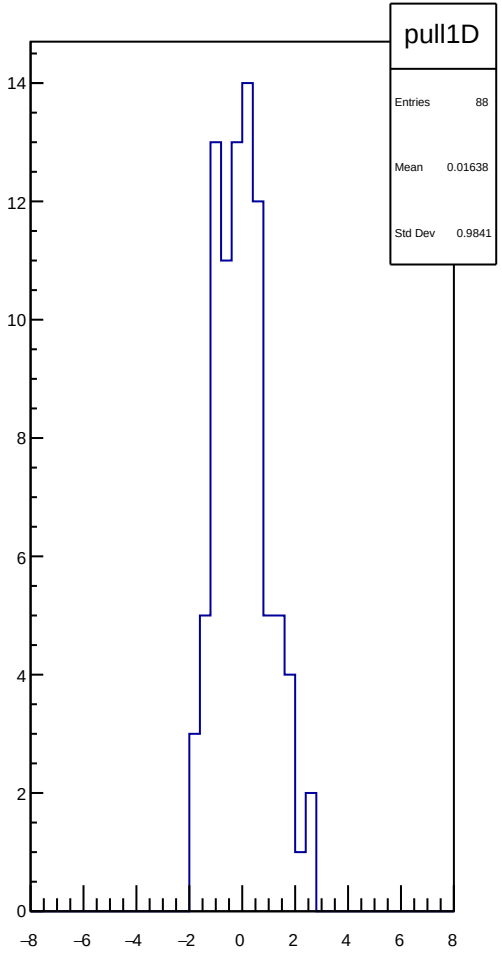

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 4.34e+04 / 87
p0 789.7 ± 0.6153
1100
1000
900
800
700
600

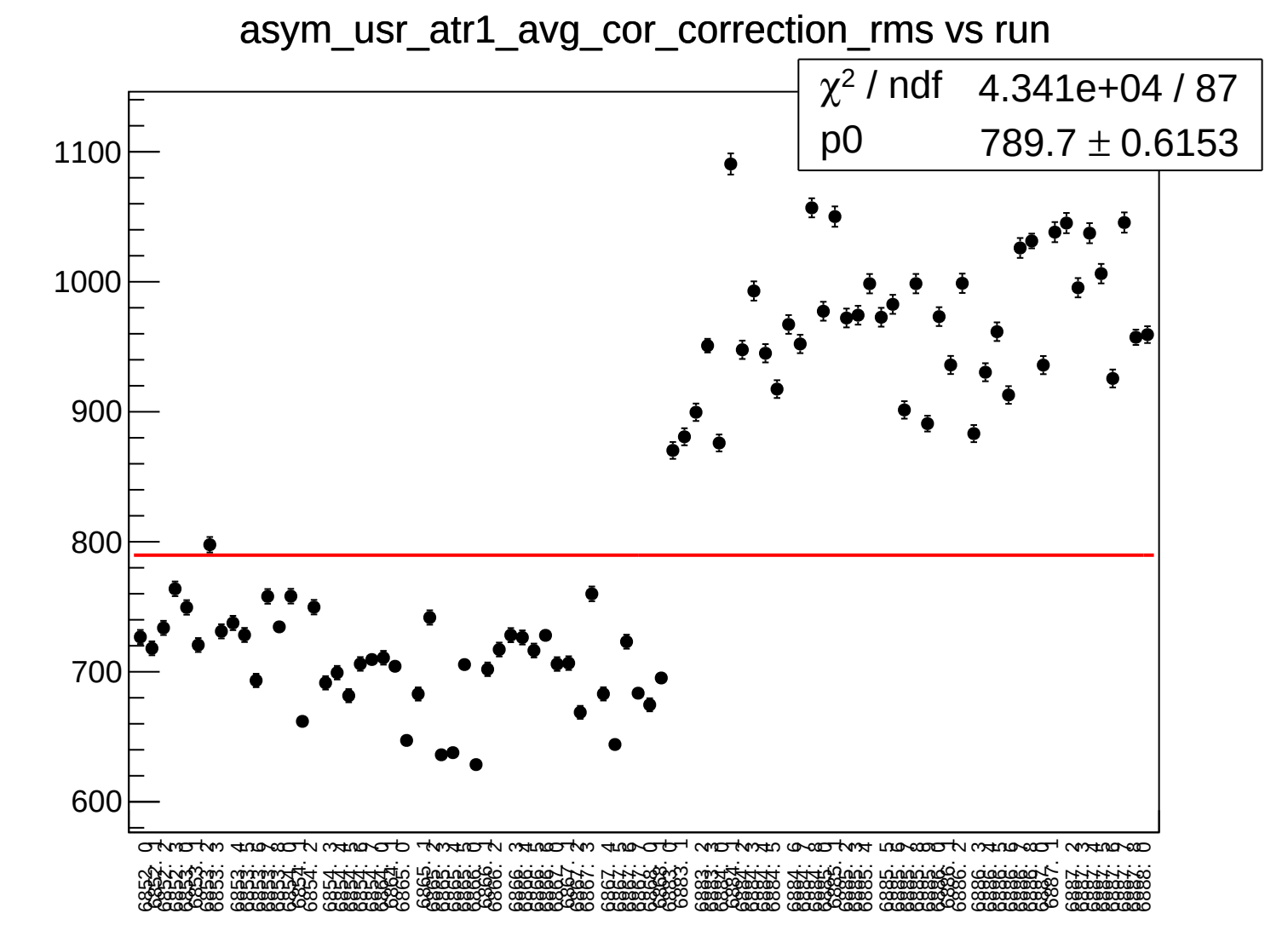

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 83.37 / 87
p0 −622.9 ± 1747
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 111.8
Std Dev 0
2
1
0
−1
−2

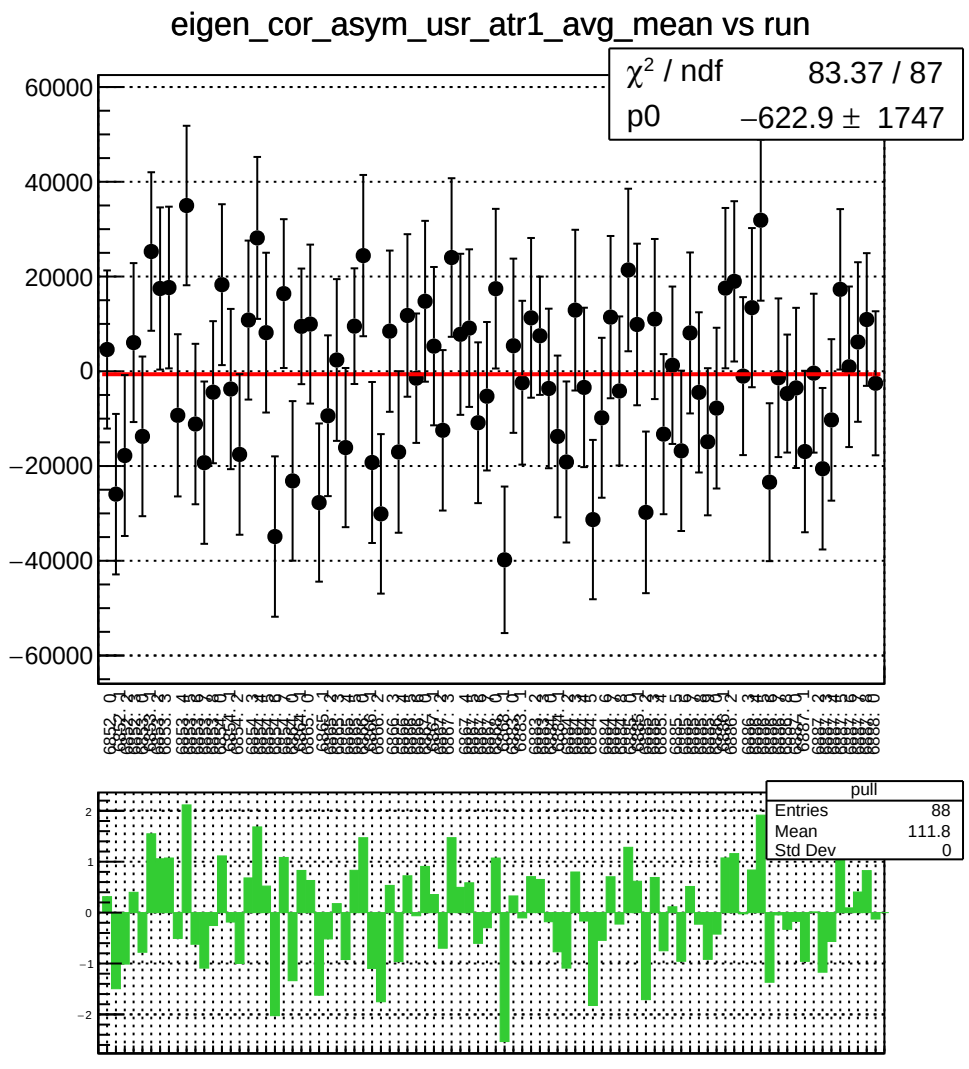

pull1D
Entries 88
Mean −0.006269
Std Dev 0.9733
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

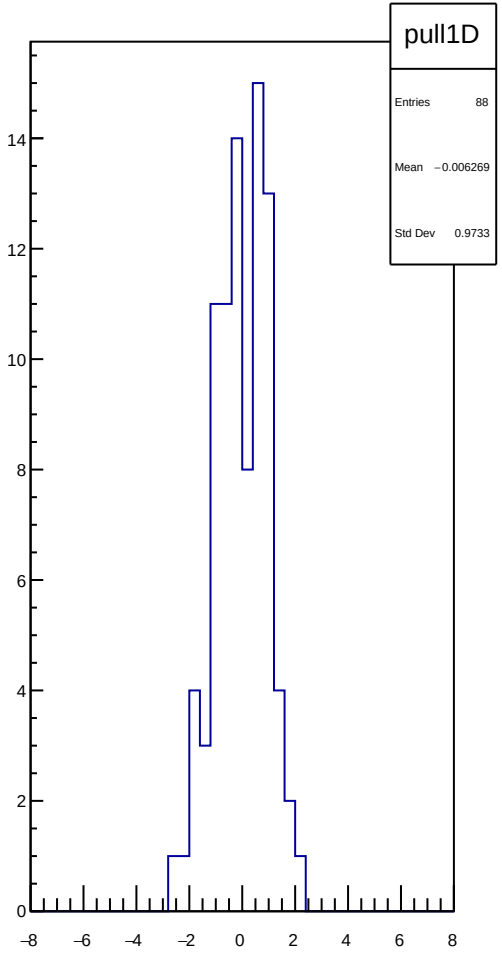

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 204.3 / 87
p0 1607 ± 1.236
1750
1700
1650
1600
1550

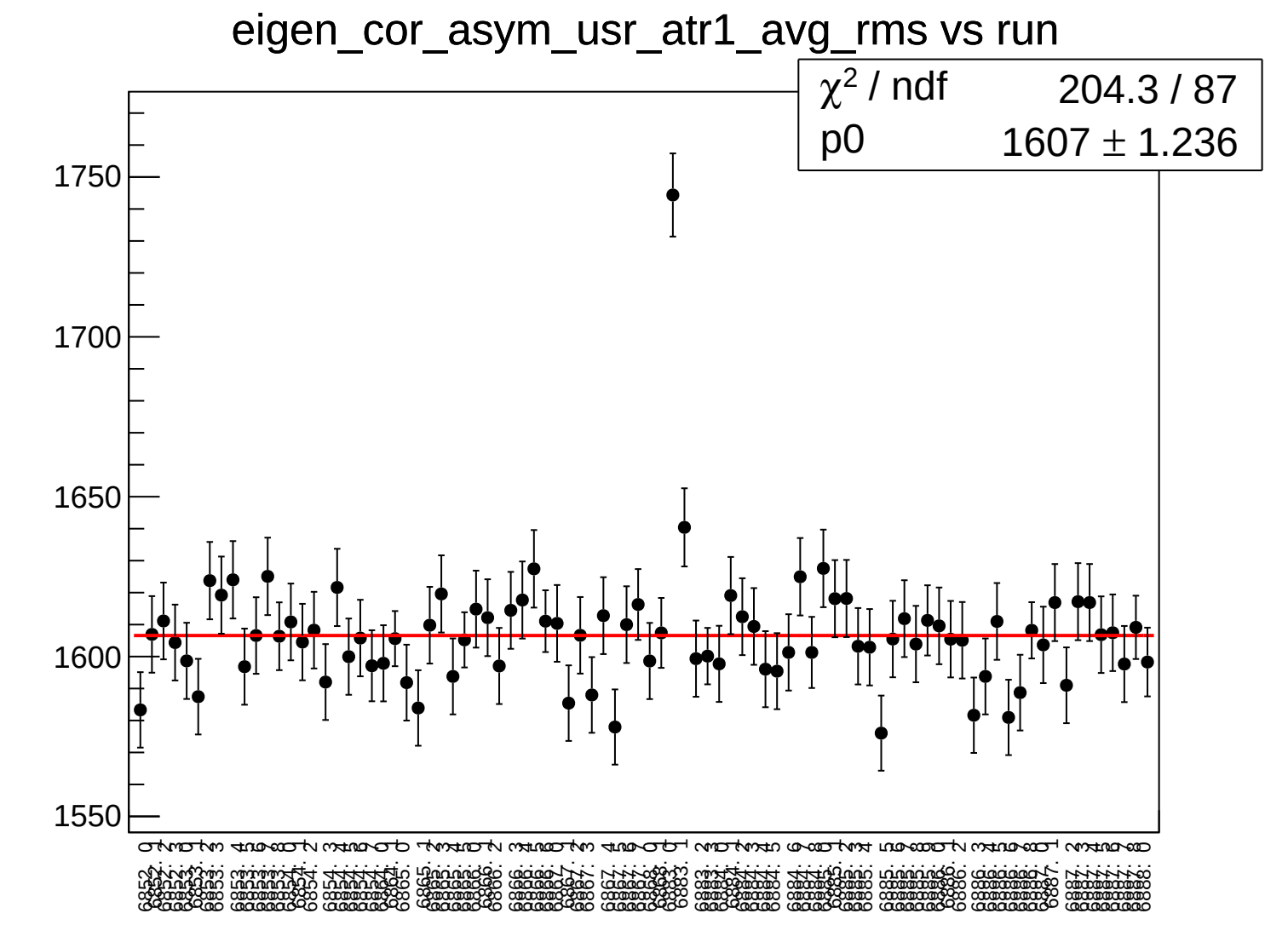

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 85.25 / 87
p0 −791.6 ± 870.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 34.99
Std Dev 0
3
2
1
0
−1

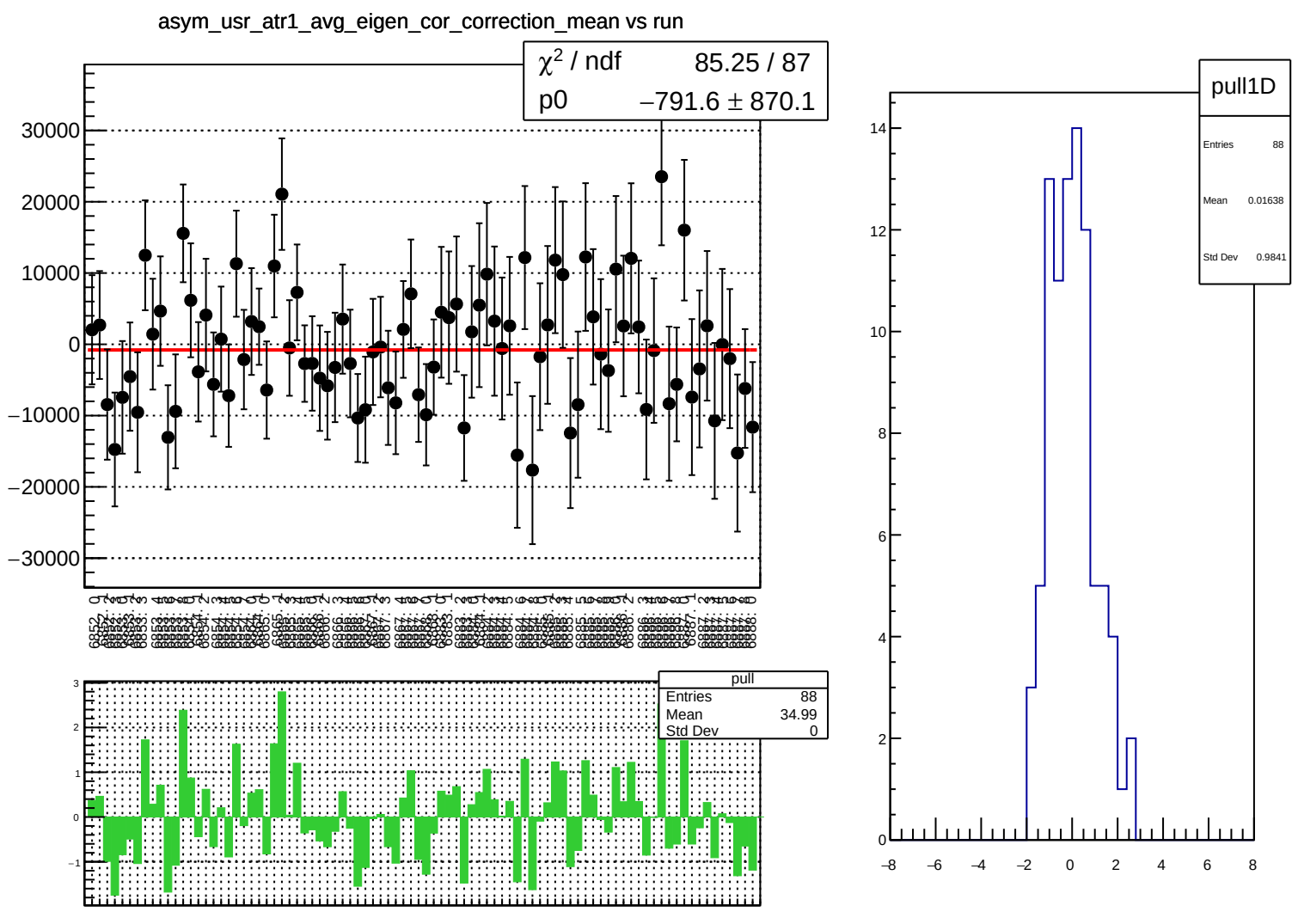

pull1D
Entries 88
Mean 0.01638
Std Dev 0.9841
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

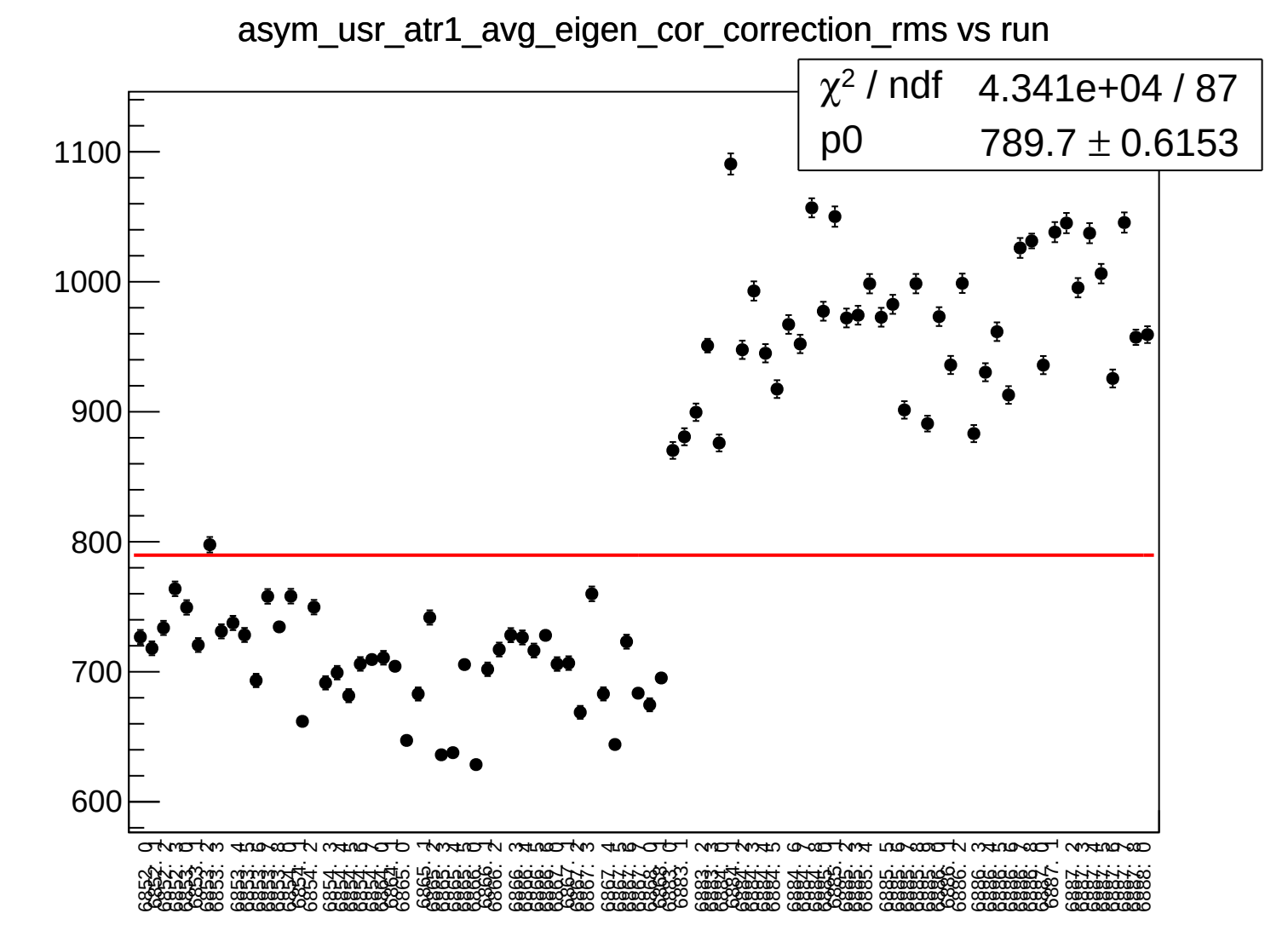

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 4.341e+04 / 87
p0 789.7 ± 0.6153
1100
1000
900
800
700
600

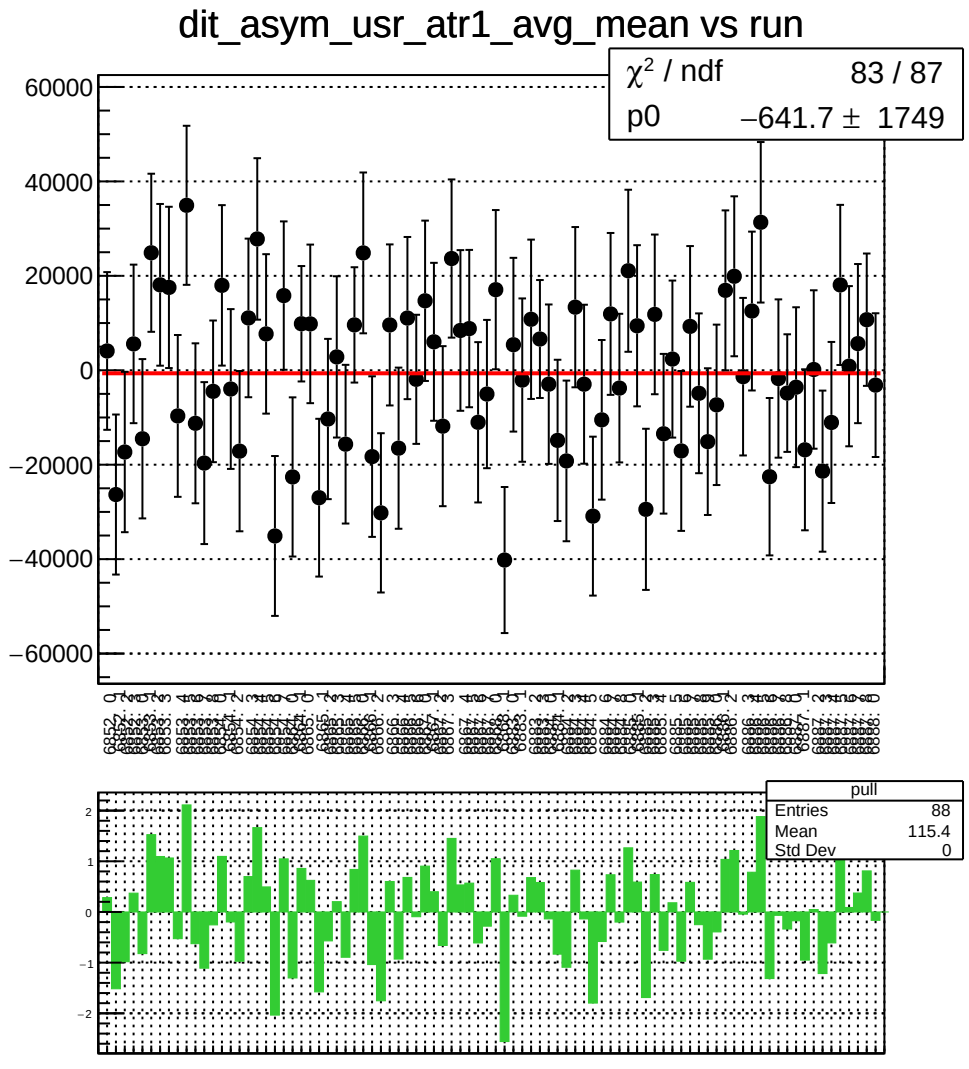

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 83.37 / 87
p0 −622.9 ± 1747
pull
Entries 88
Mean 111.8
Std Dev 0

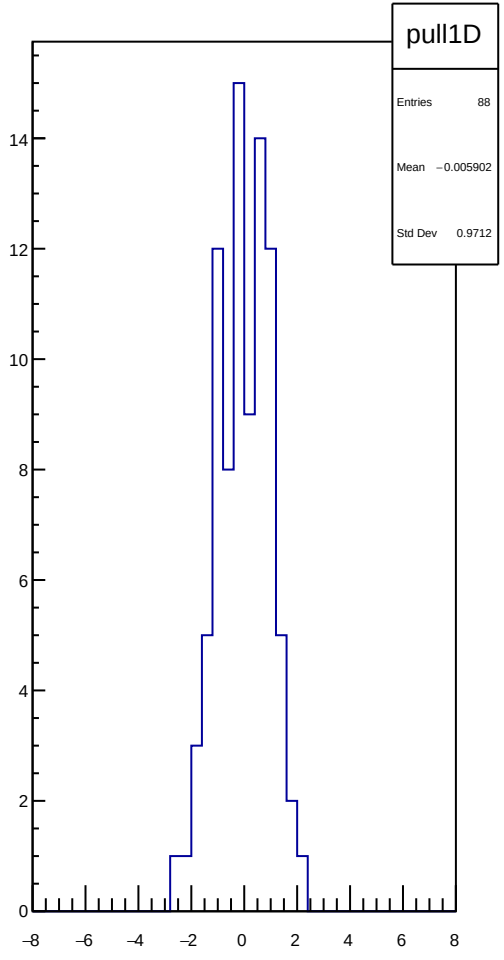

pull1D
Entries 88
Mean −0.006269
Std Dev 0.9733

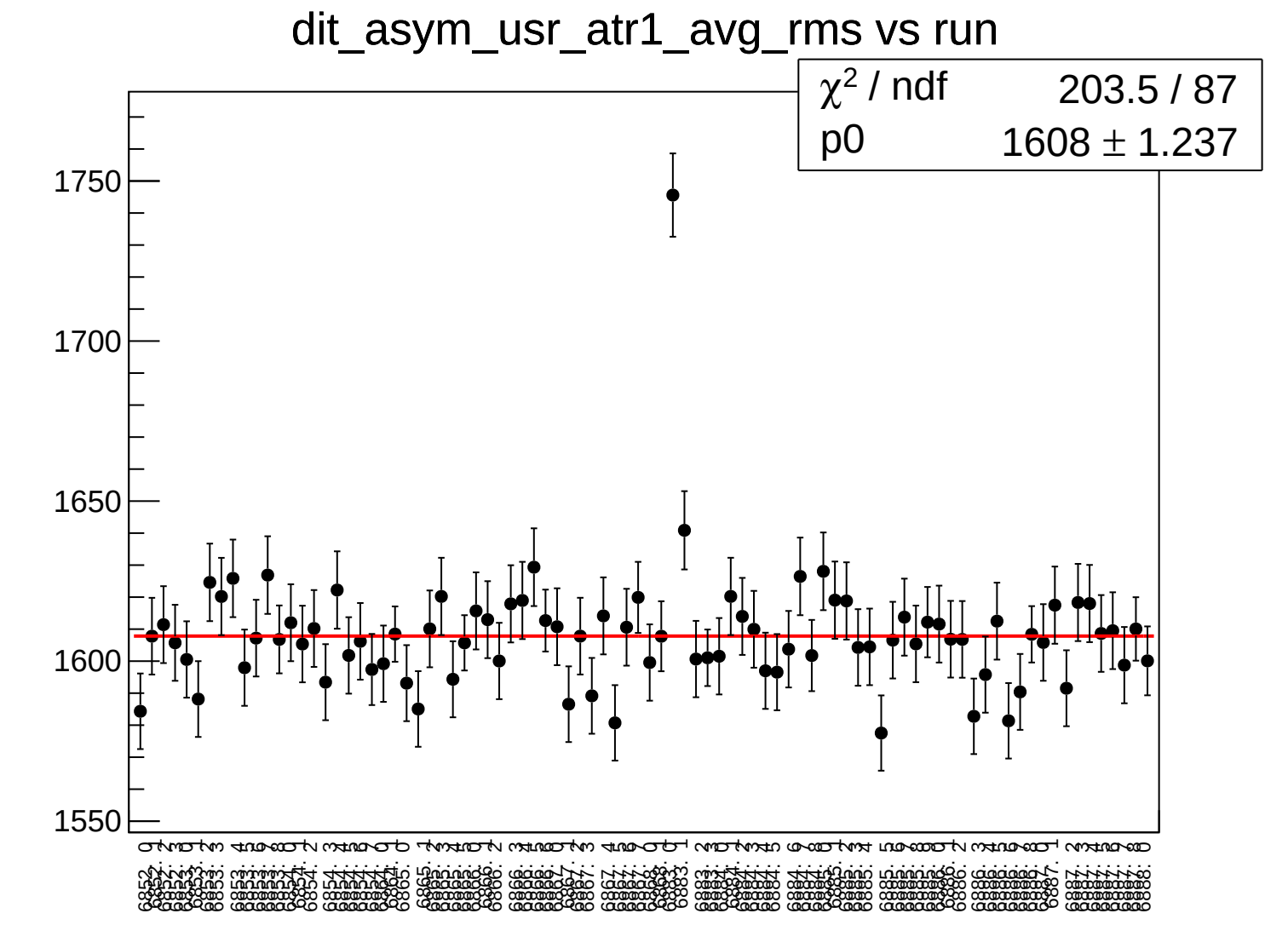

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 204.3 / 87
p0 1607 ± 1.236
1750
1700
1650
1600
1550

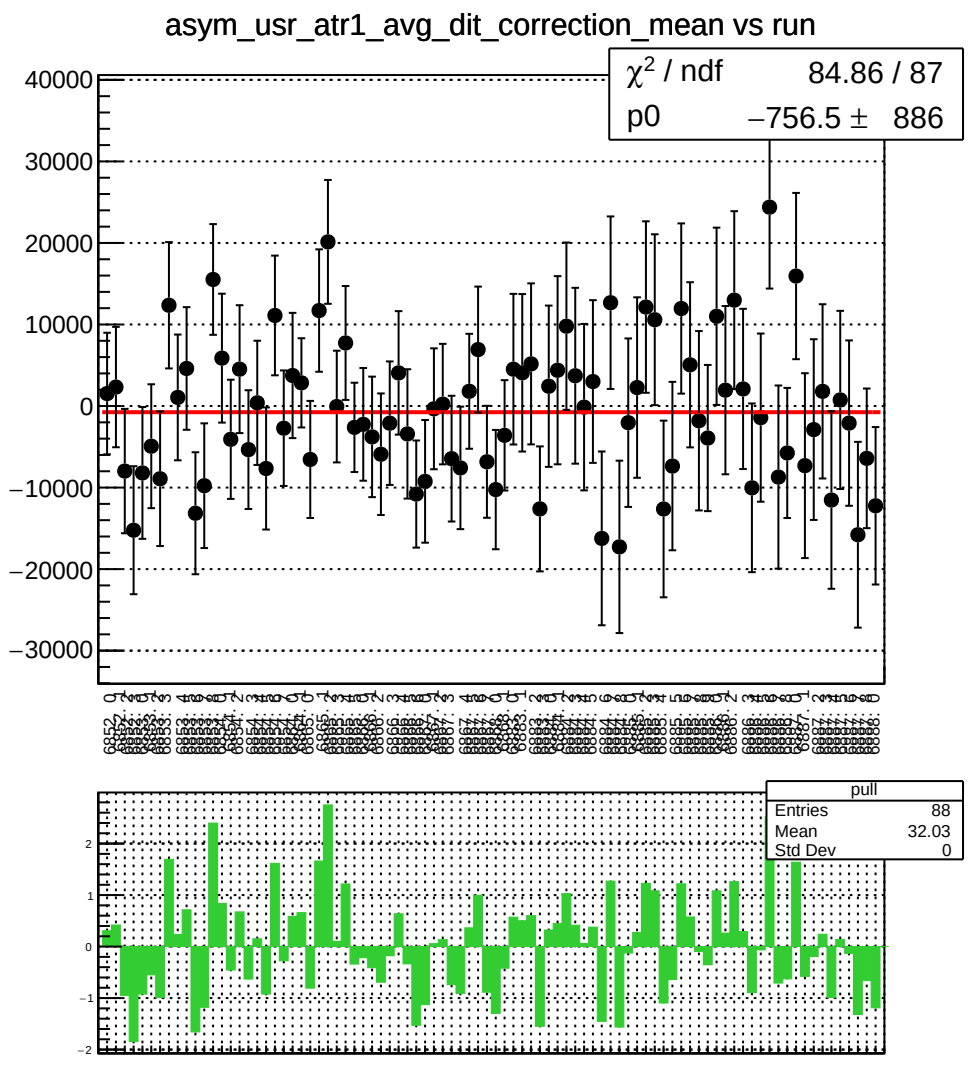

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.25 / 87
p0 −791.6 ± 870.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 34.99
Std Dev 0
3
2
1
0
−1
pull1D
Entries 88
Mean 0.01638
Std Dev 0.9841
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

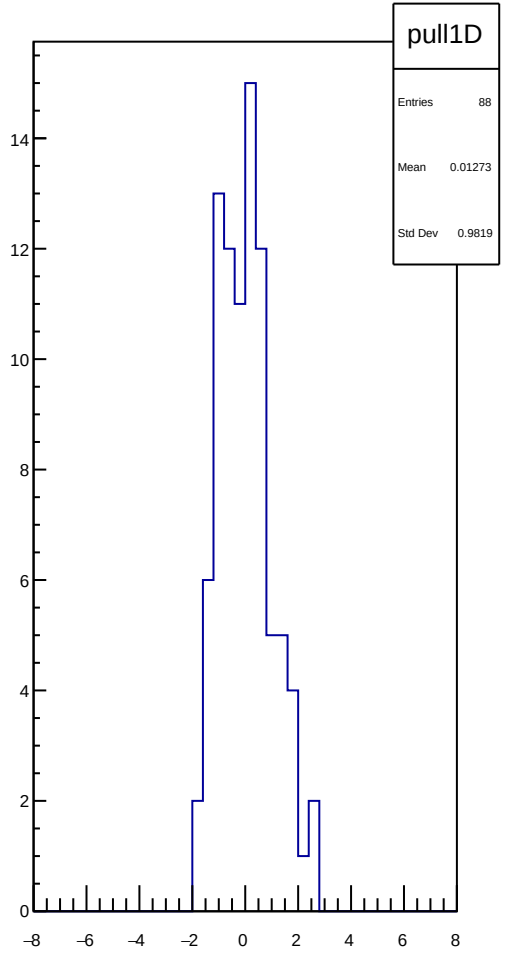

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.341e+04 / 87
p0 789.7 ± 0.6153
1100
1000
900
800
700
600

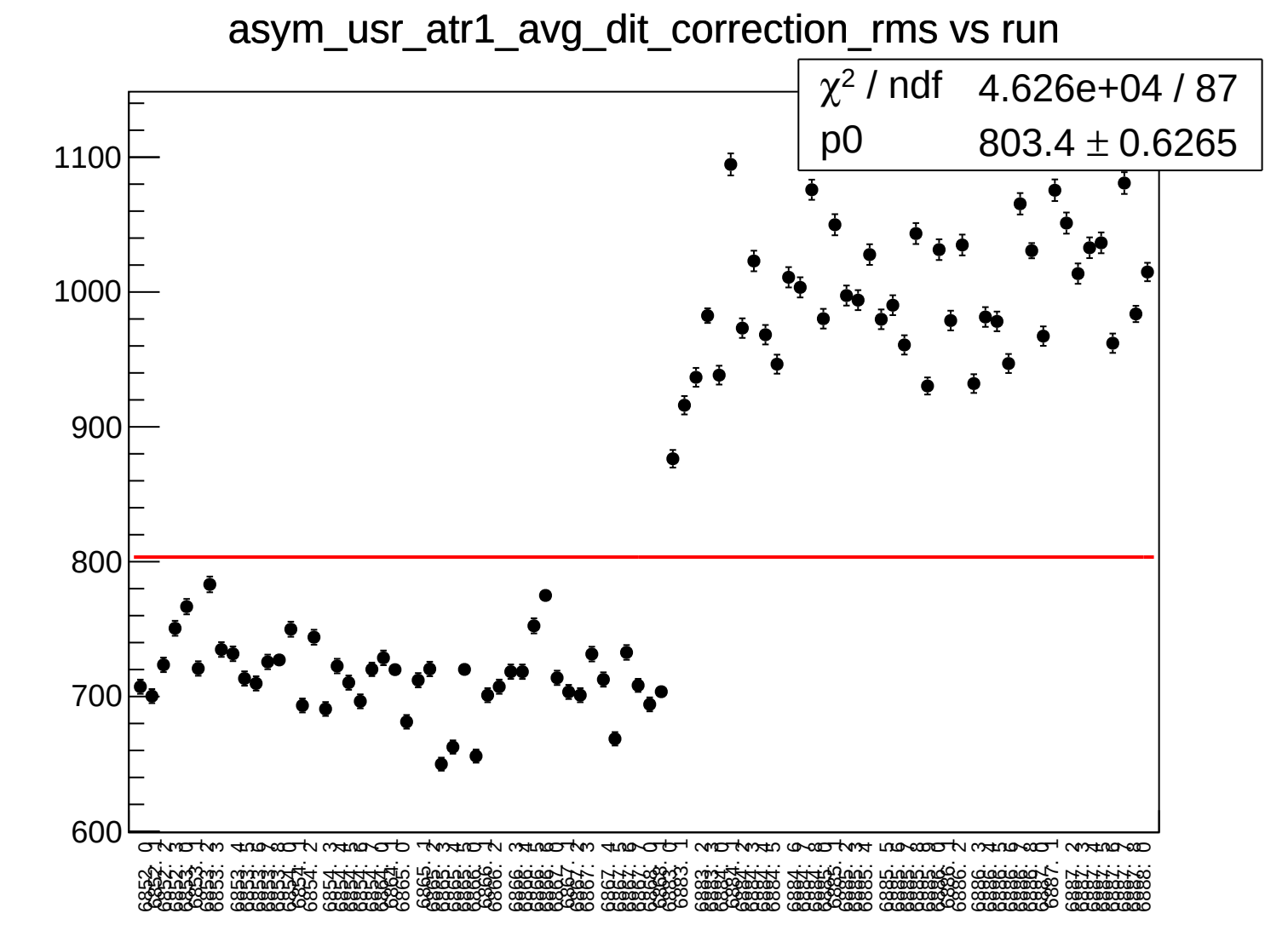

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 83 / 87
p0 −641.7 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 115.4
Std Dev 0
2
1
0
−1
−2

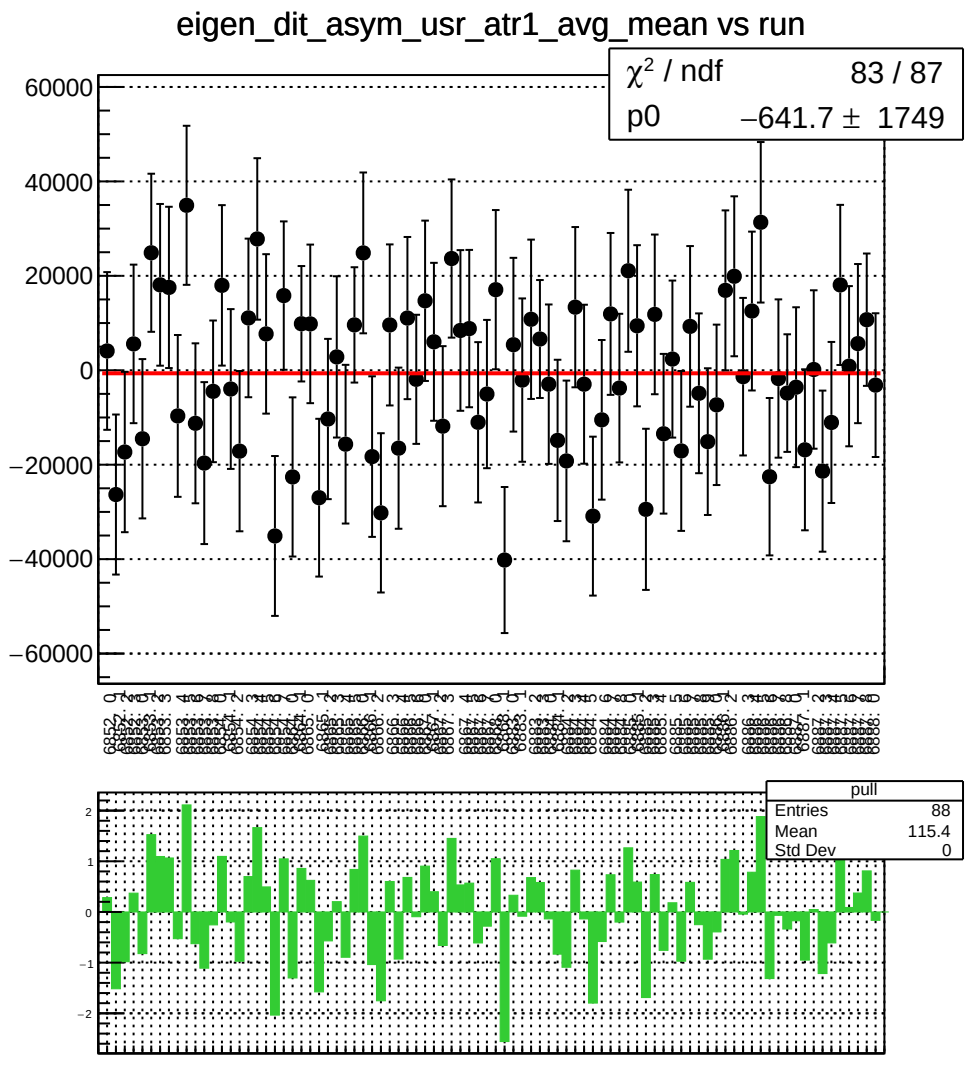

pull1D
Entries 88
Mean −0.005902
Std Dev 0.9712
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

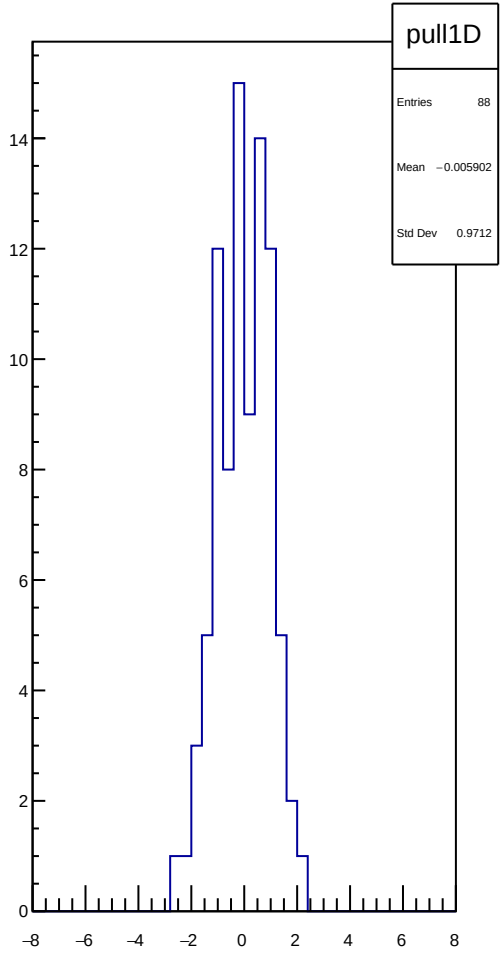

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 203.5 / 87
p0 1608 ± 1.237
1750
1700
1650
1600
1550

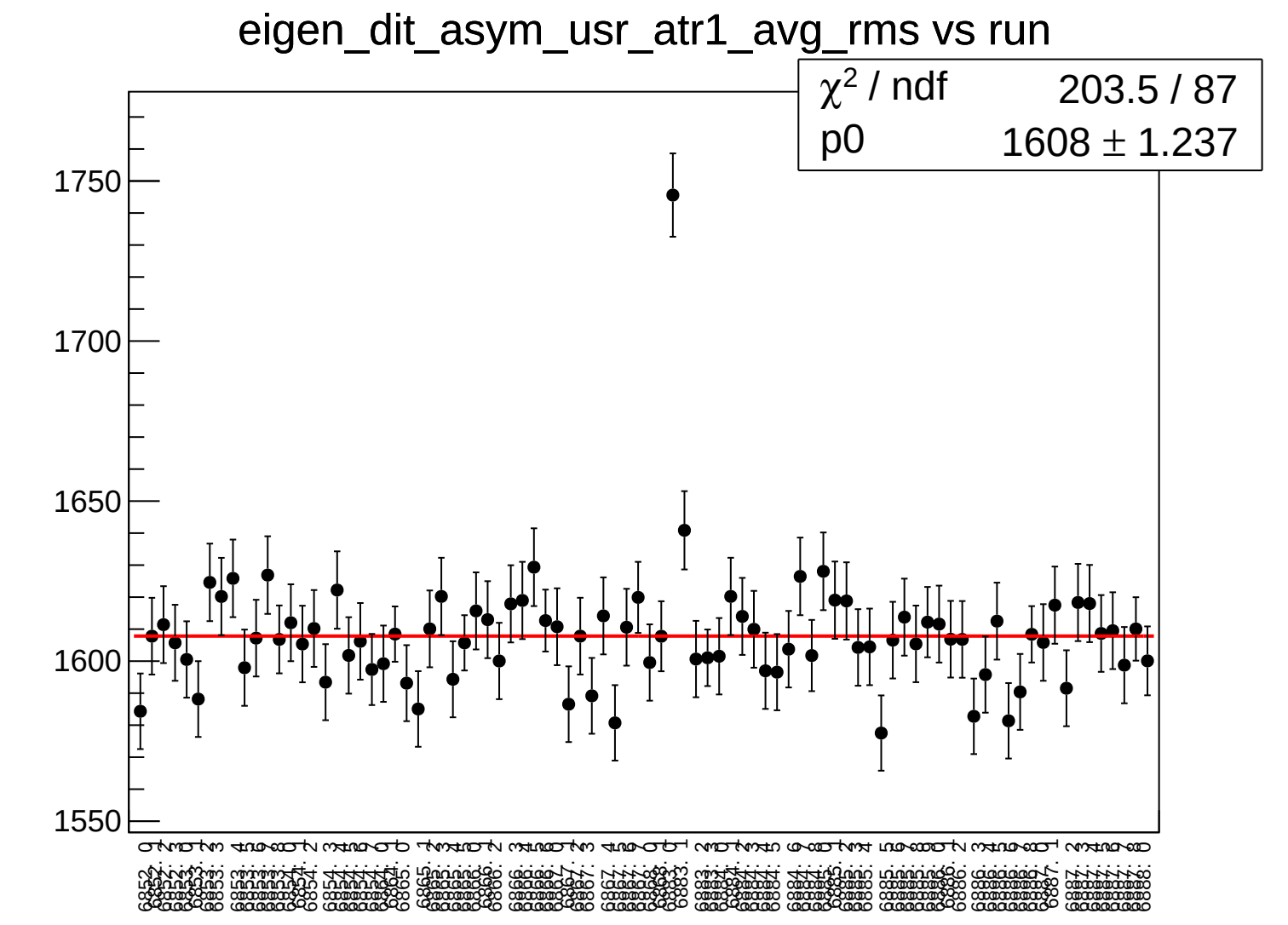

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 84.86 / 87
p0 −756.5 ± 886
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 32.03
Std Dev 0
2
1
0
−1
−2

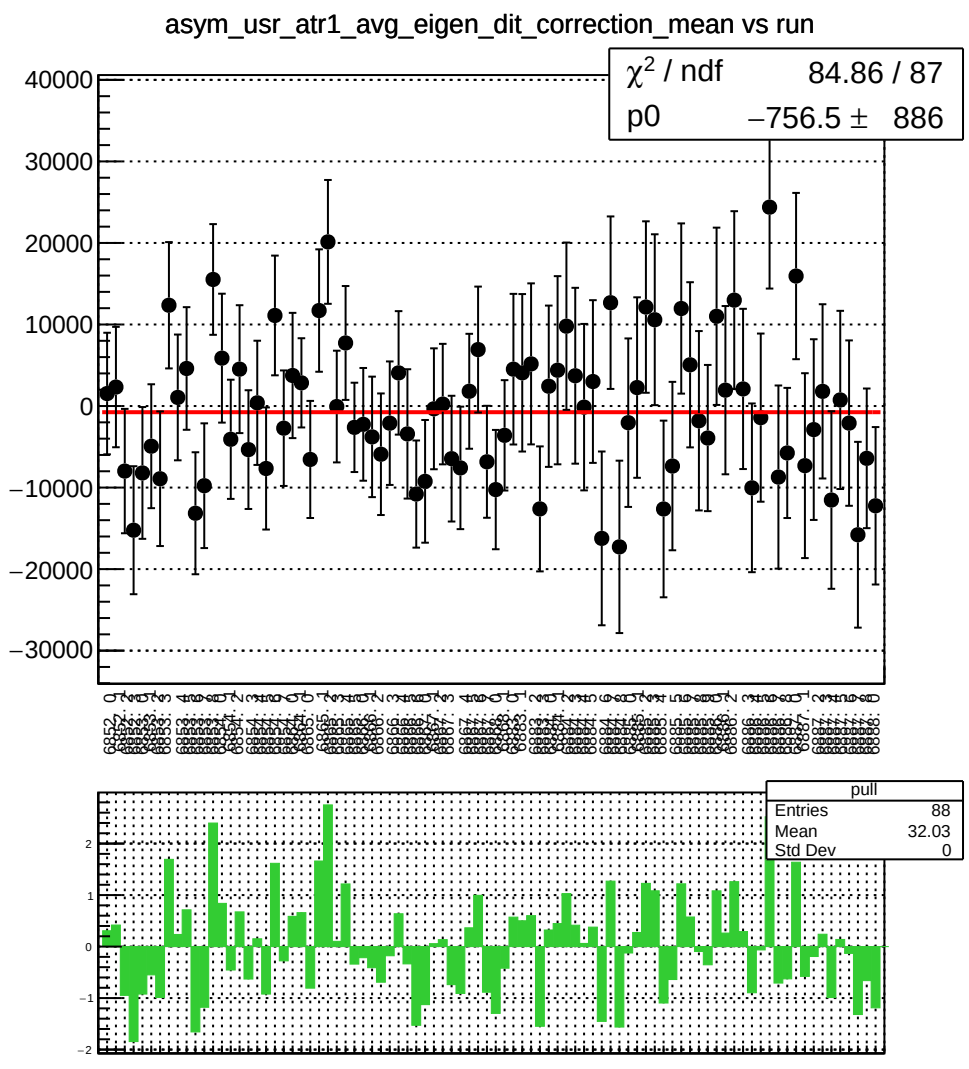

pull1D
Entries 88
Mean 0.01273
Std Dev 0.9819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

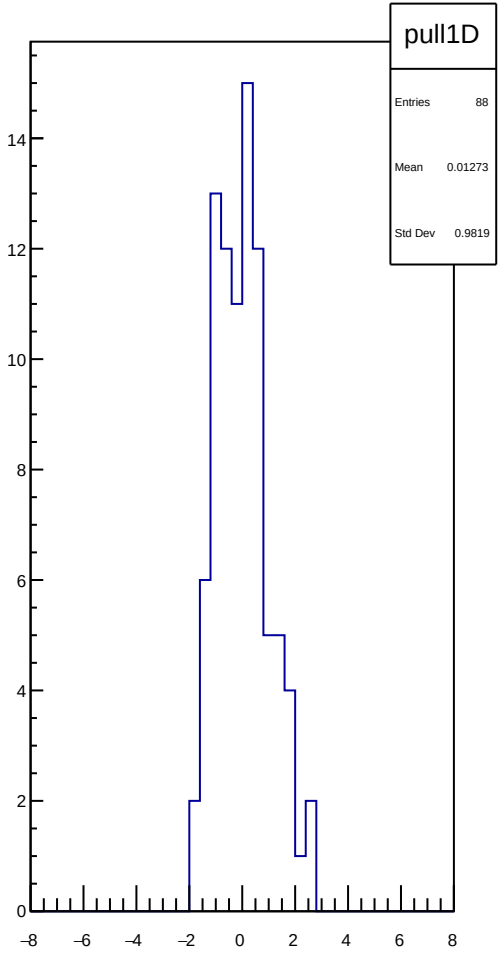

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 4.626e+04 / 87
p0 803.4 ± 0.6265
1100
1000
900
800
700
600

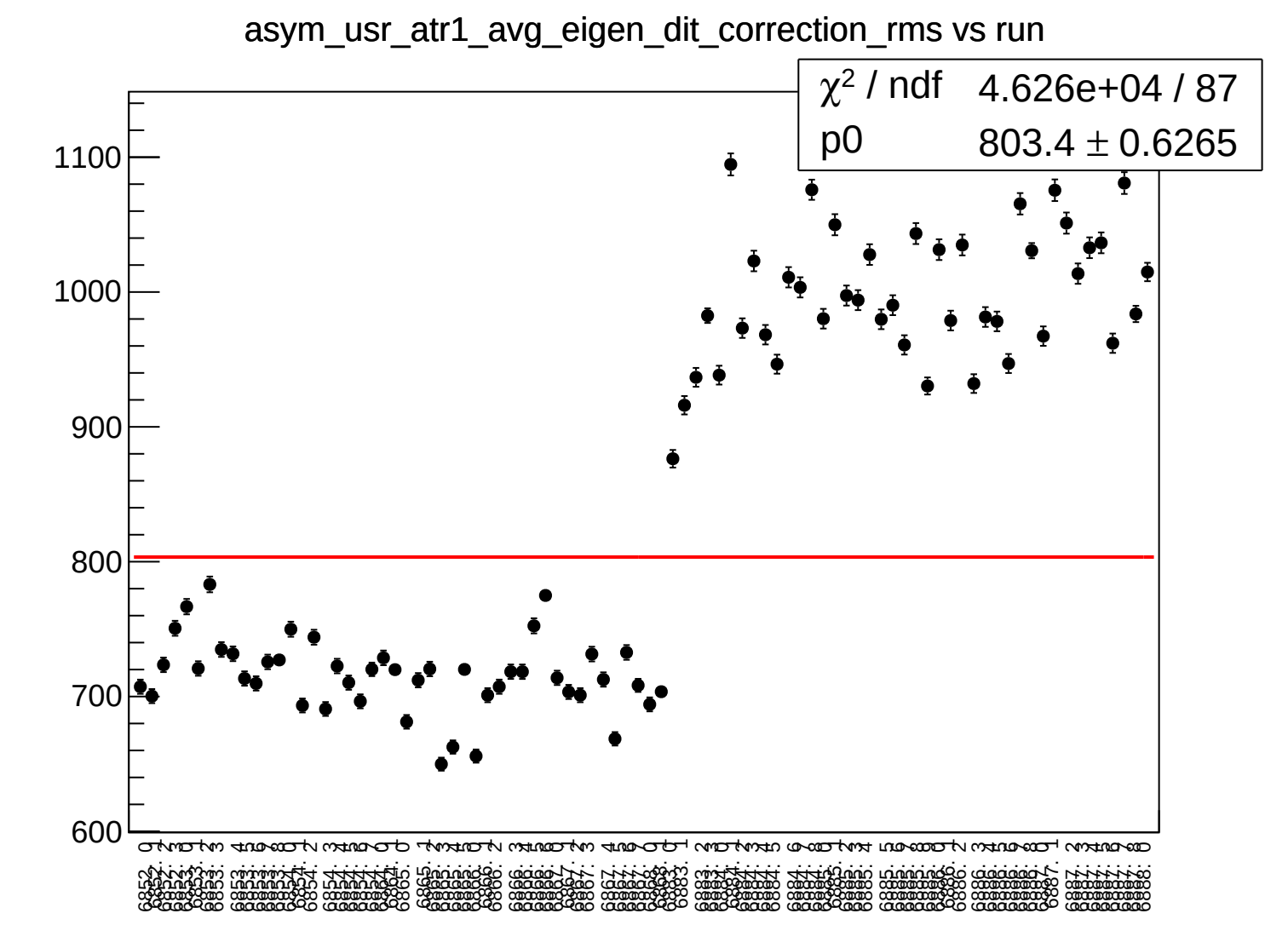

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 83 / 87
p0 −641.7 ± 1749
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 115.4
Std Dev 0
2
1
0
−1
−2

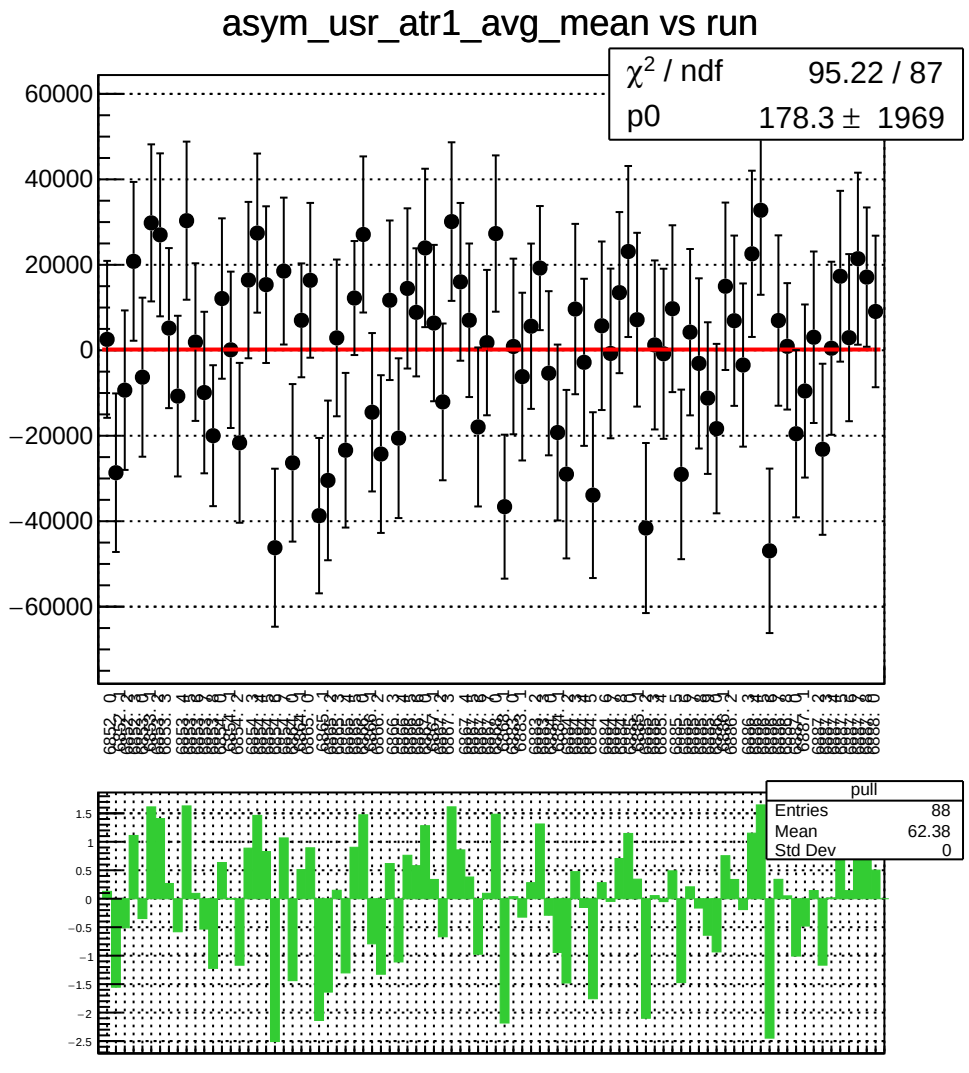

pull1D
Entries 88
Mean −0.005902
Std Dev 0.9712
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

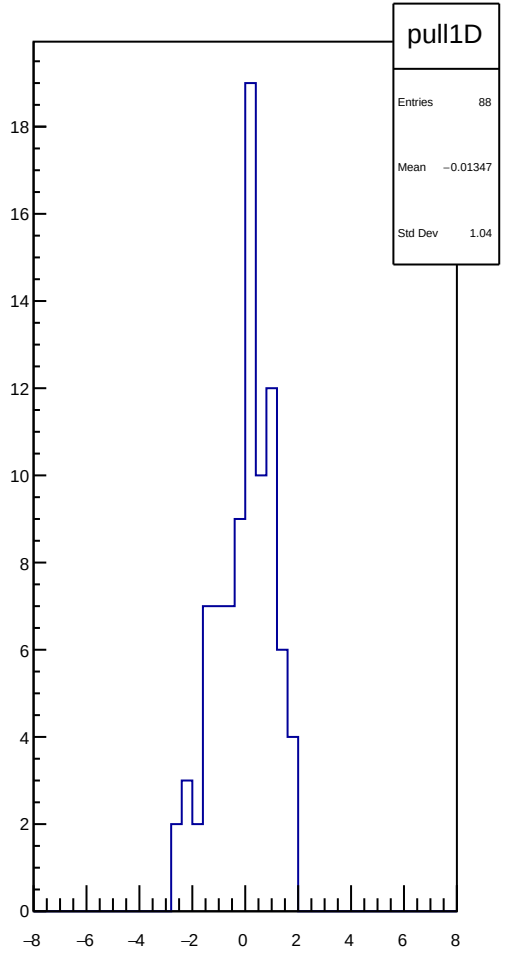

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 203.5 / 87
p0 1608 ± 1.237
1750
1700
1650
1600
1550

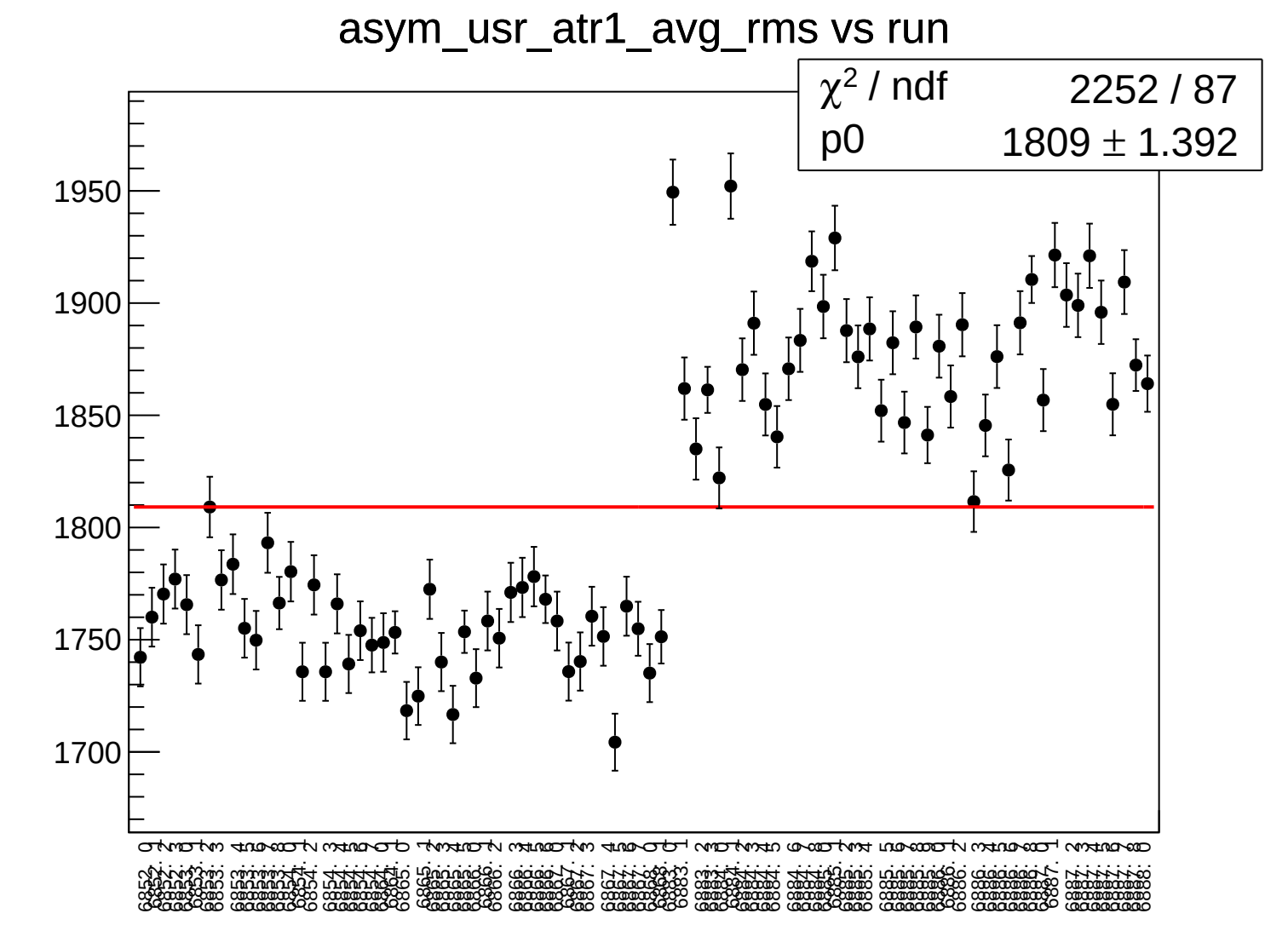

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.86 / 87
p0 −756.5 ± 886
pull
Entries 88
Mean 32.03
Std Dev 0

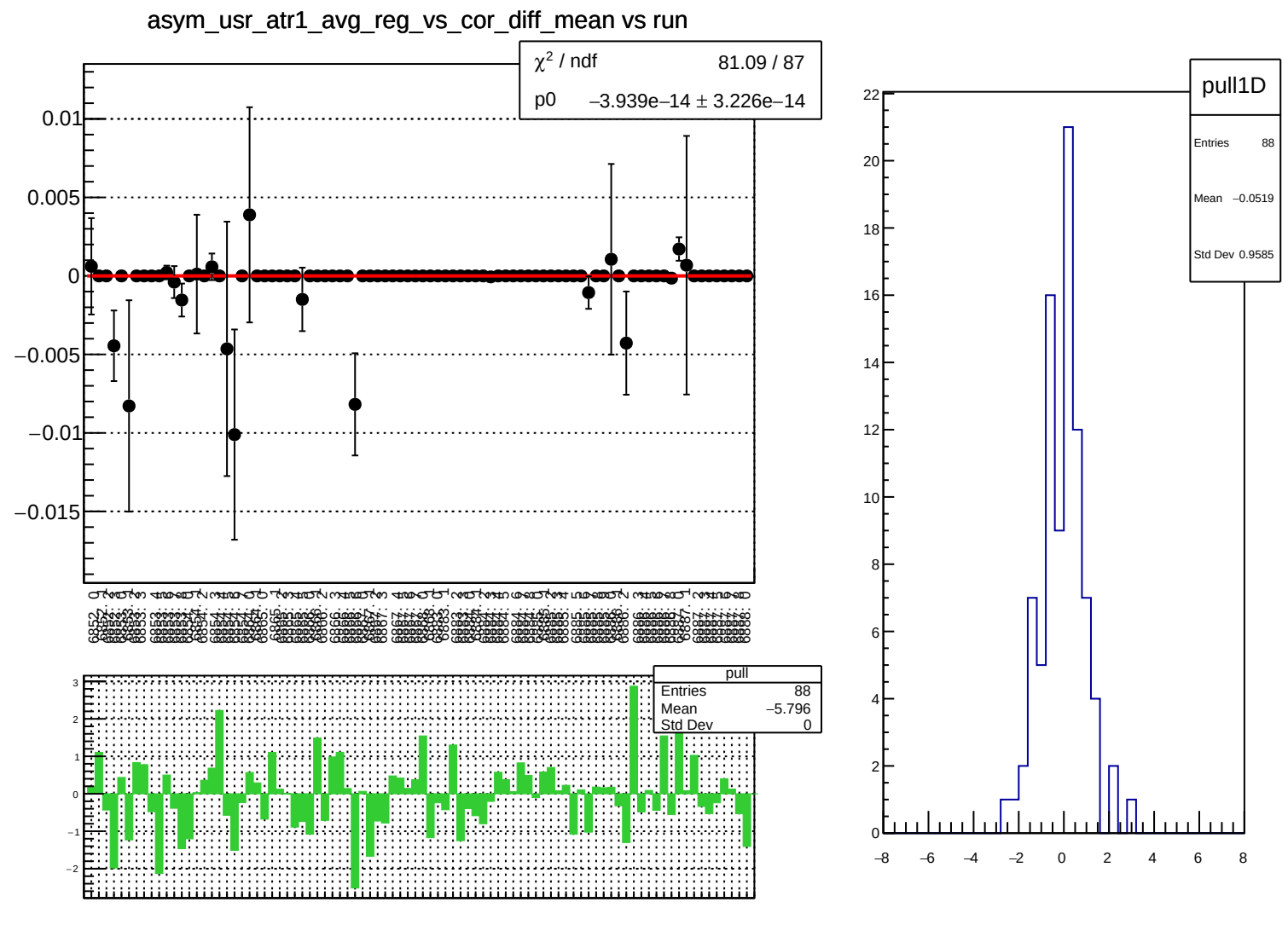

pull1D
Entries 88
Mean 0.01273
Std Dev 0.9819

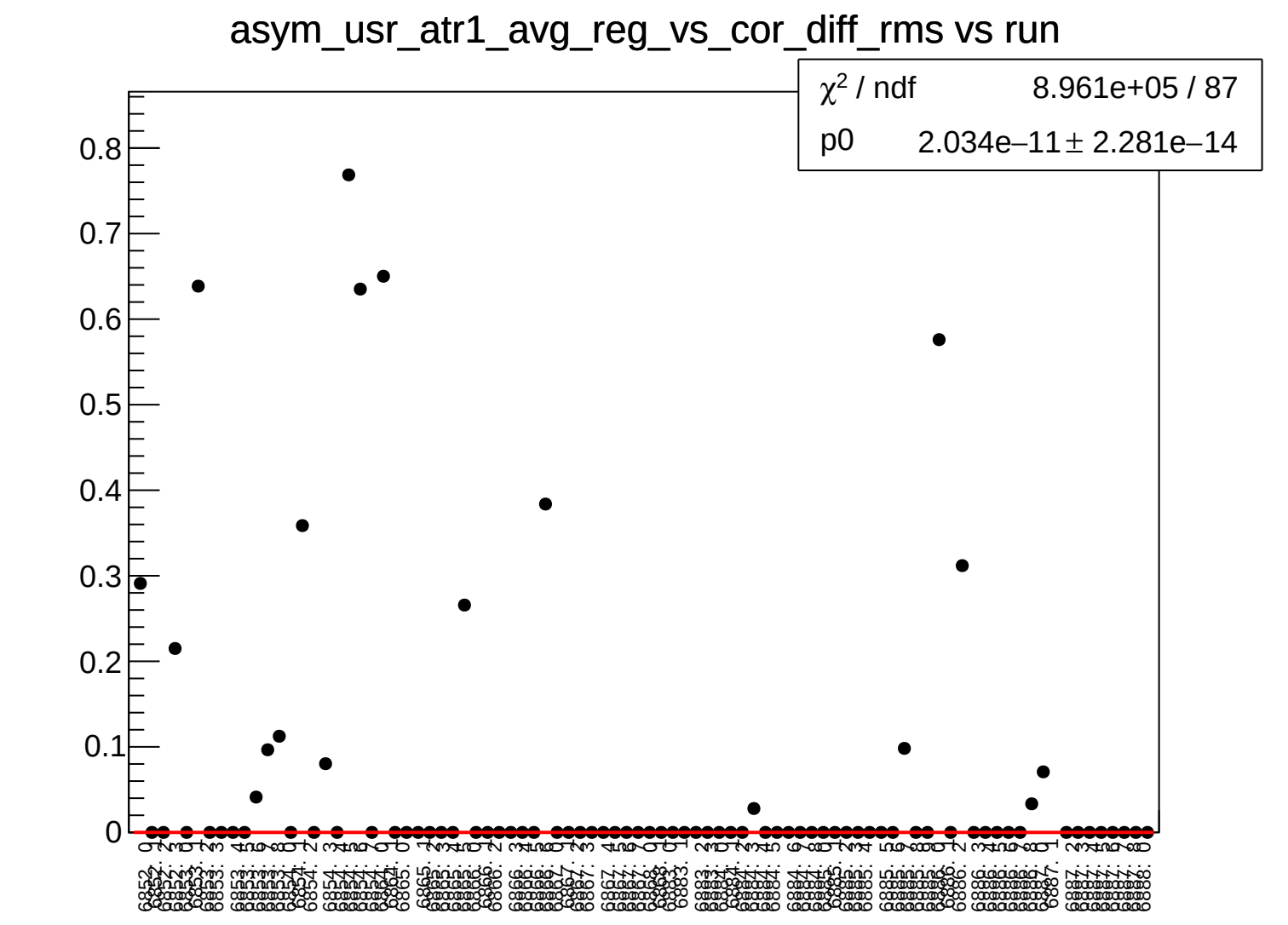

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.626e+04 / 87
p0 803.4 ± 0.6265
1100
1000
900
800
700
600

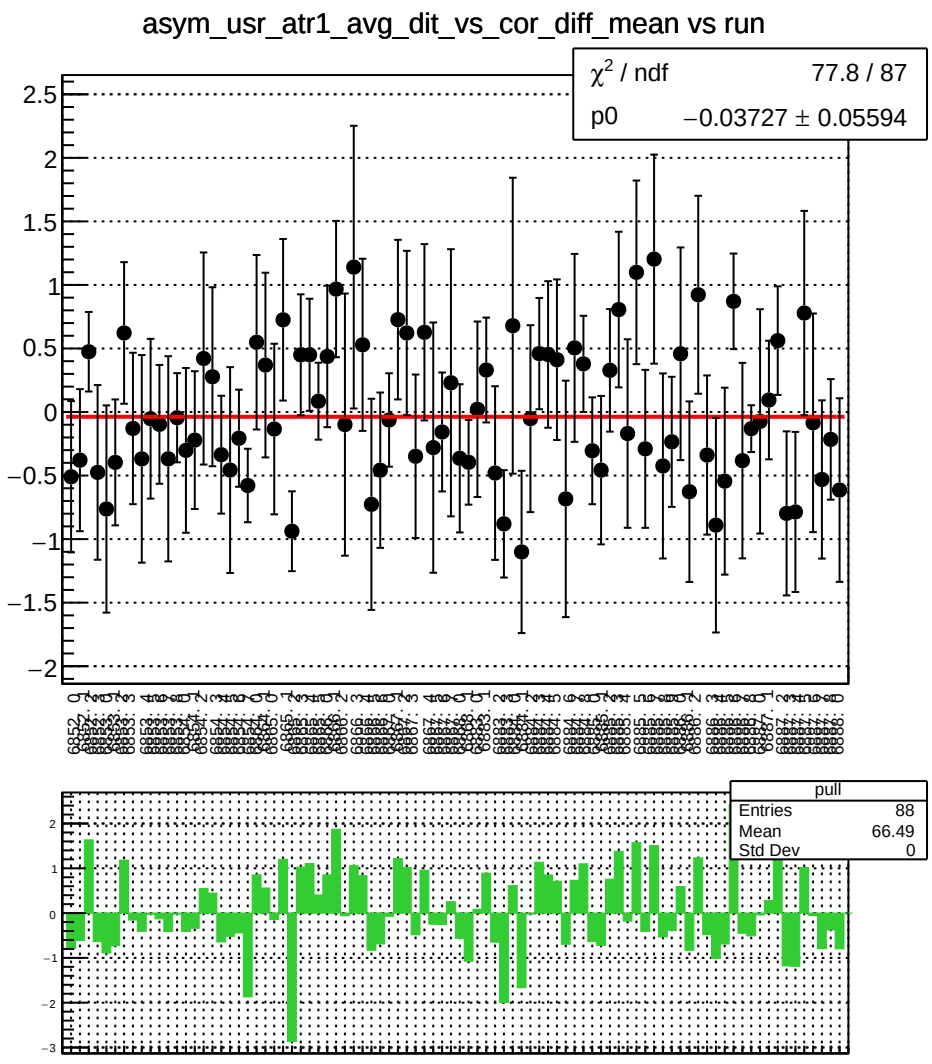

asym_usr_atr1_avg_mean vs run
χ² / ndf 95.22 / 87
p0 178.3 ± 1969
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 62.38
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

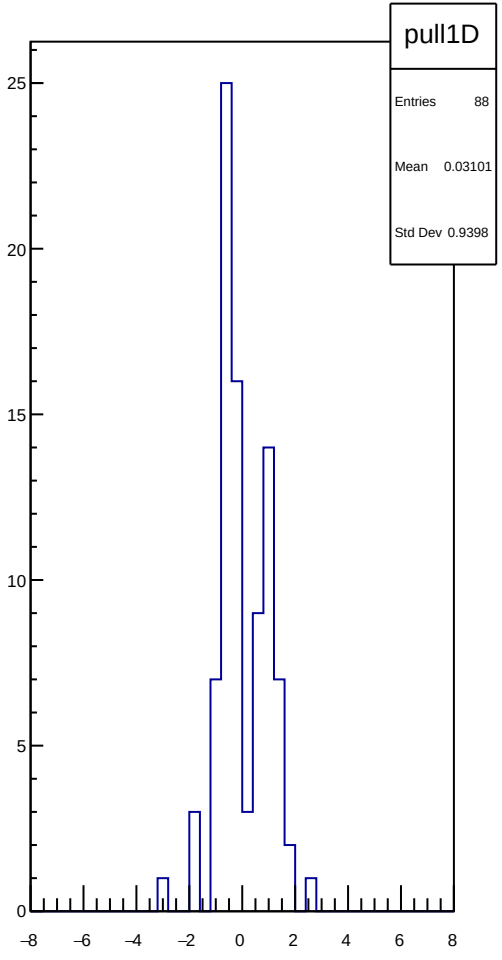

pull1D
Entries 88
Mean −0.01347
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

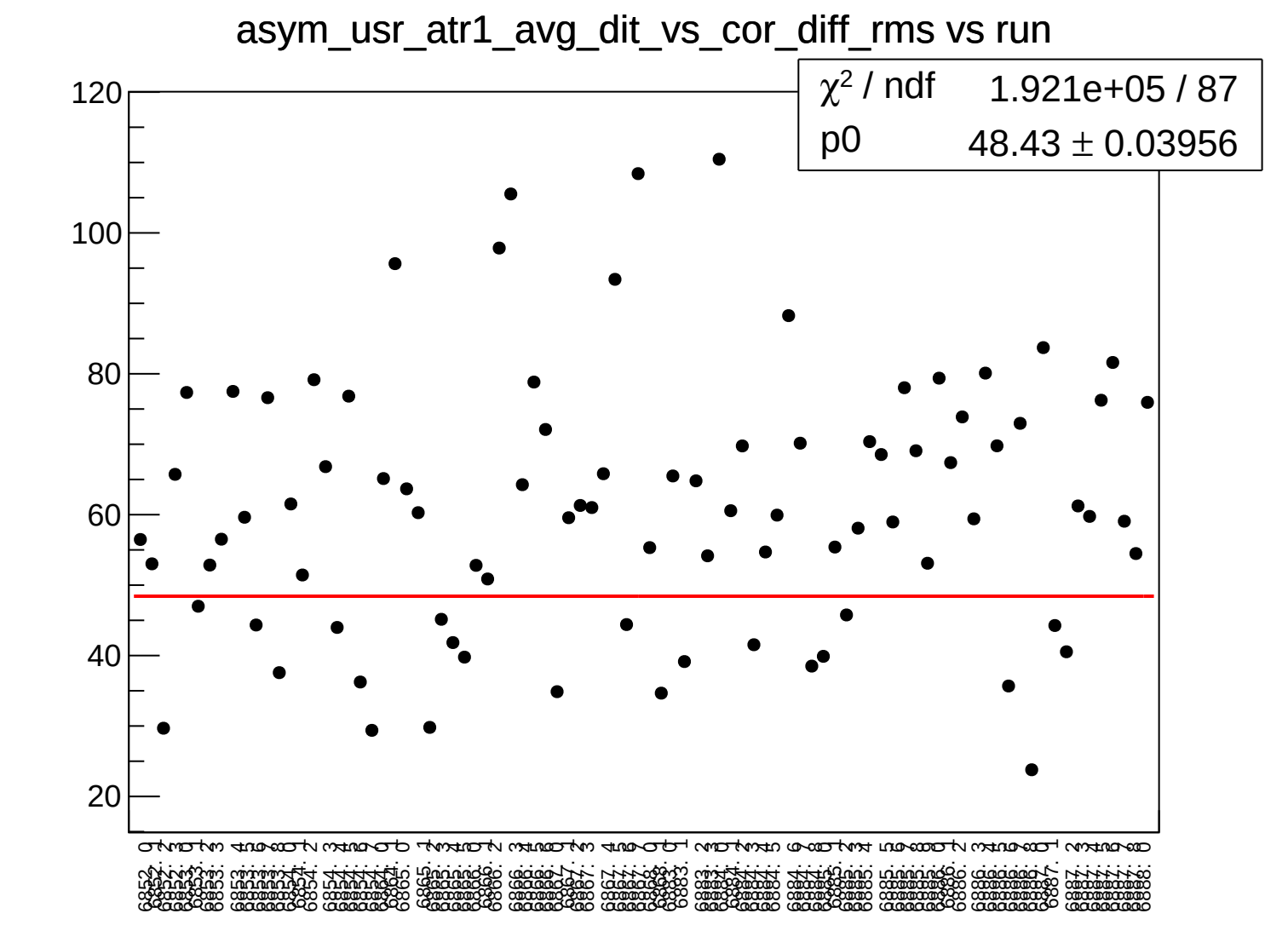

asym_usr_atr1_avg_rms vs run
χ² / ndf 2252 / 87
p0 1809 ± 1.392
1950
1900
1850
1800
1750
1700

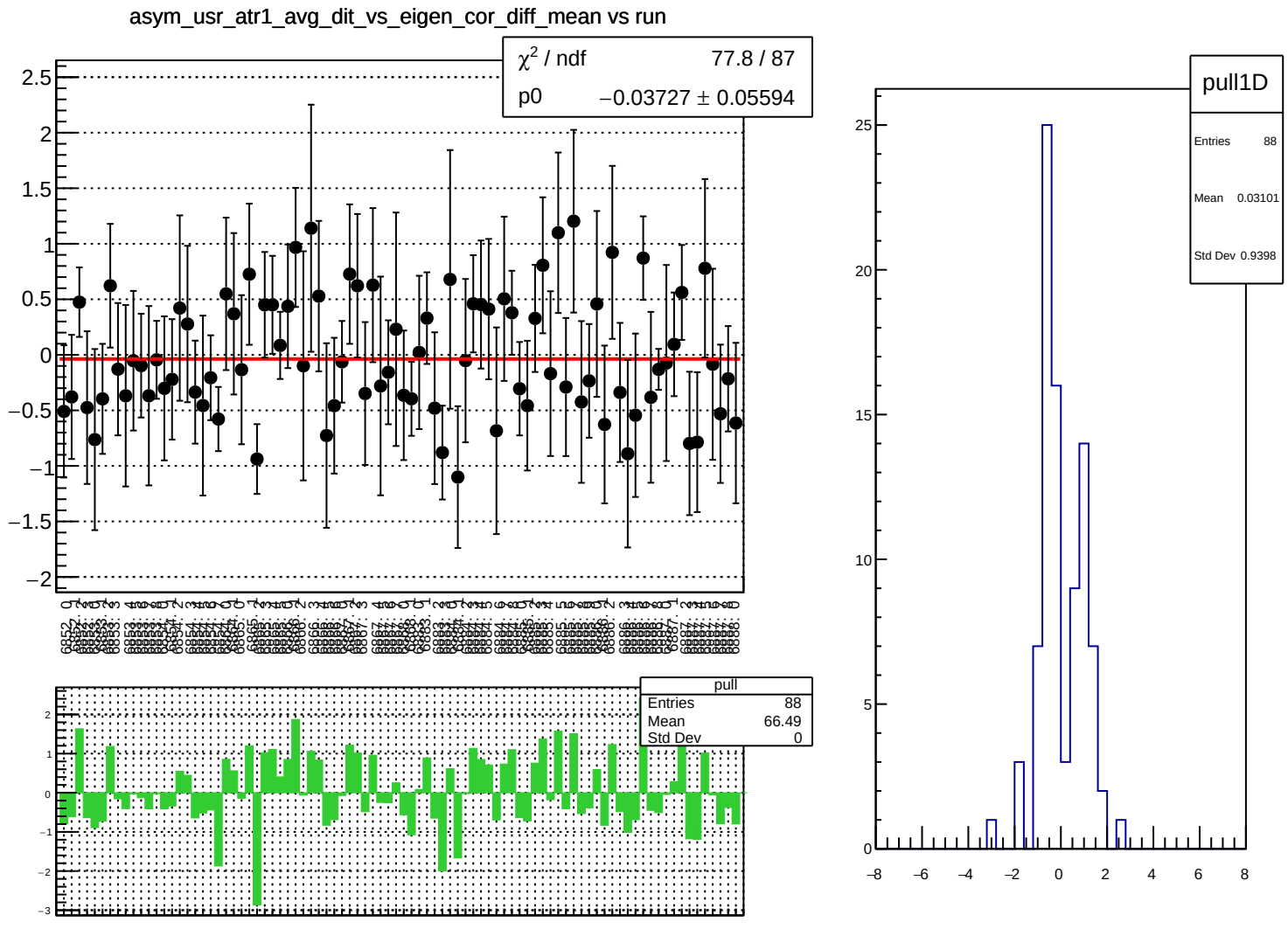

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.09 / 87
p0 −3.939e−14 ± 3.226e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean −5.796
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0519
Std Dev 0.9585
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

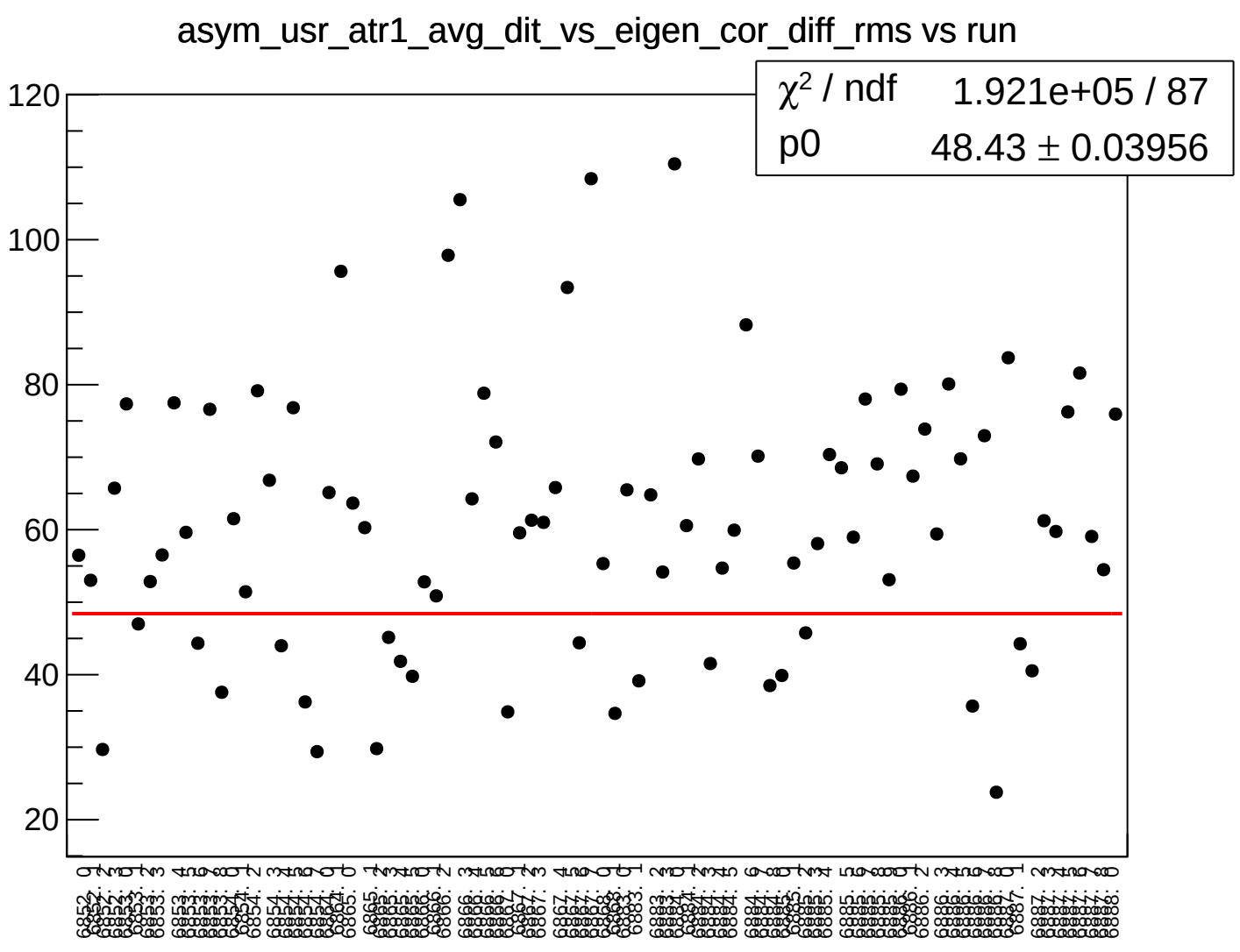

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.961e+05 / 87
p0 2.034e−11 ± 2.281e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

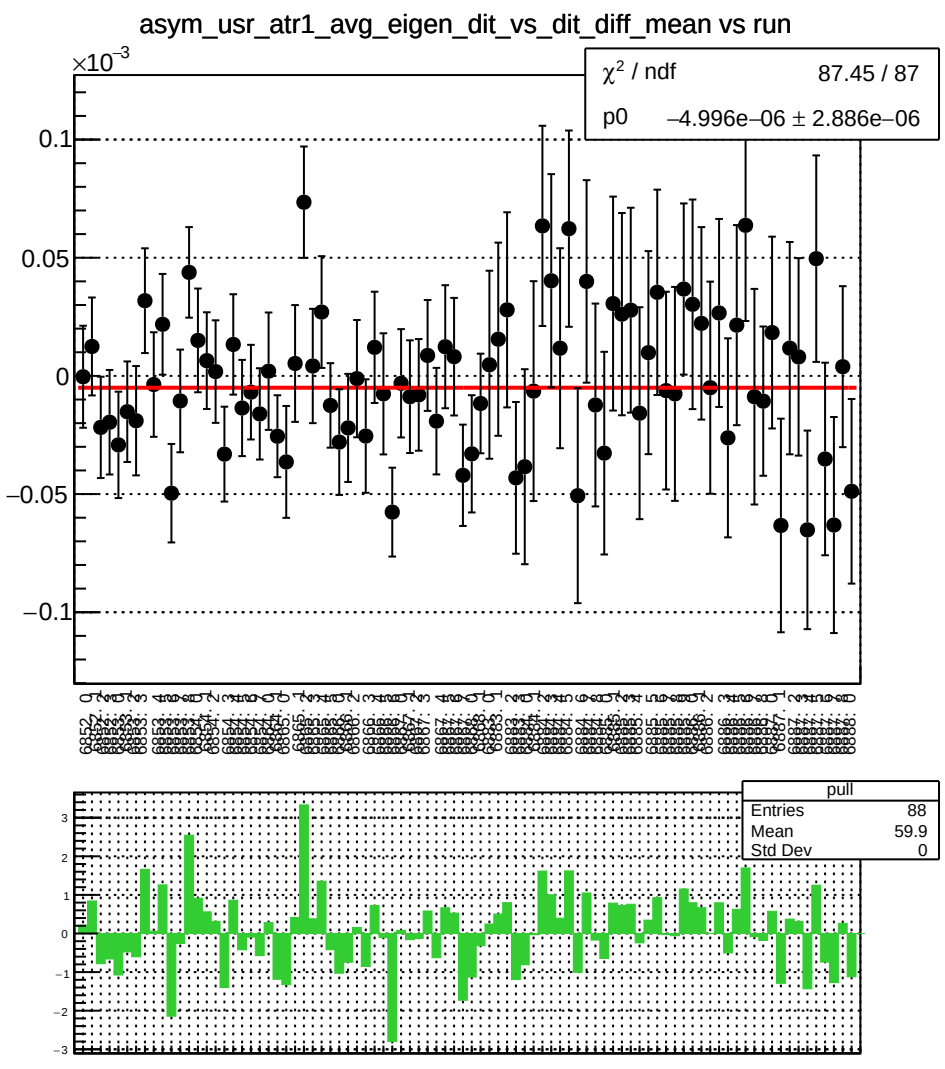

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.8 / 87
p0 −0.03727 ± 0.05594
pull
Entries 88
Mean 66.49
Std Dev 0

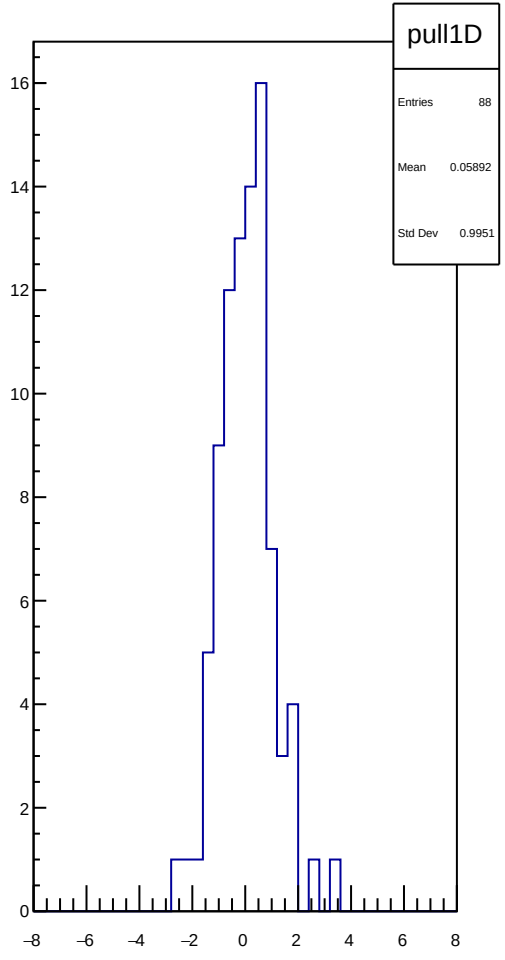

pull1D
Entries 88
Mean 0.03101
Std Dev 0.9398

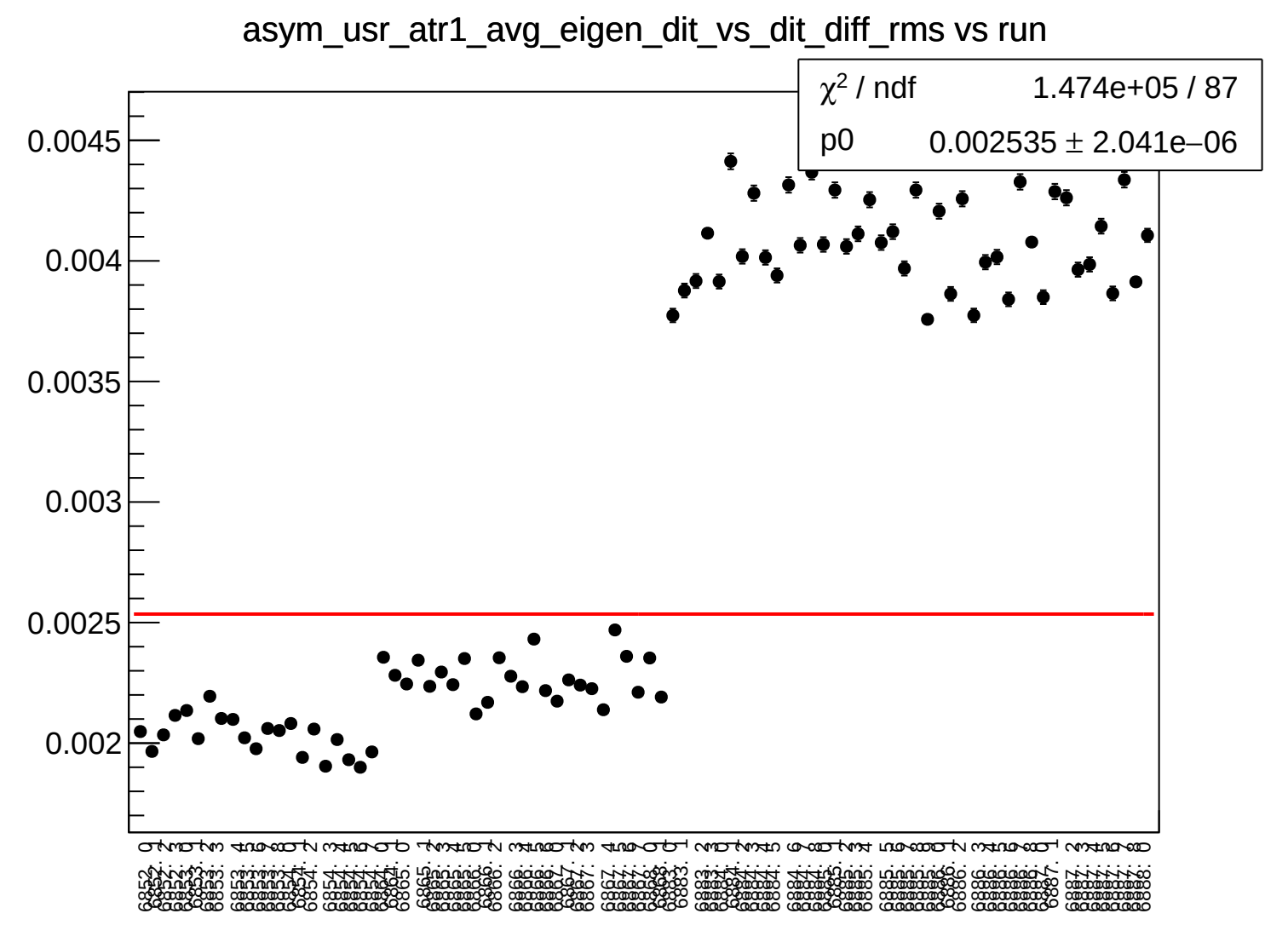

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.921e+05 / 87
p0 48.43 ± 0.03956
120
100
80
60
40
20

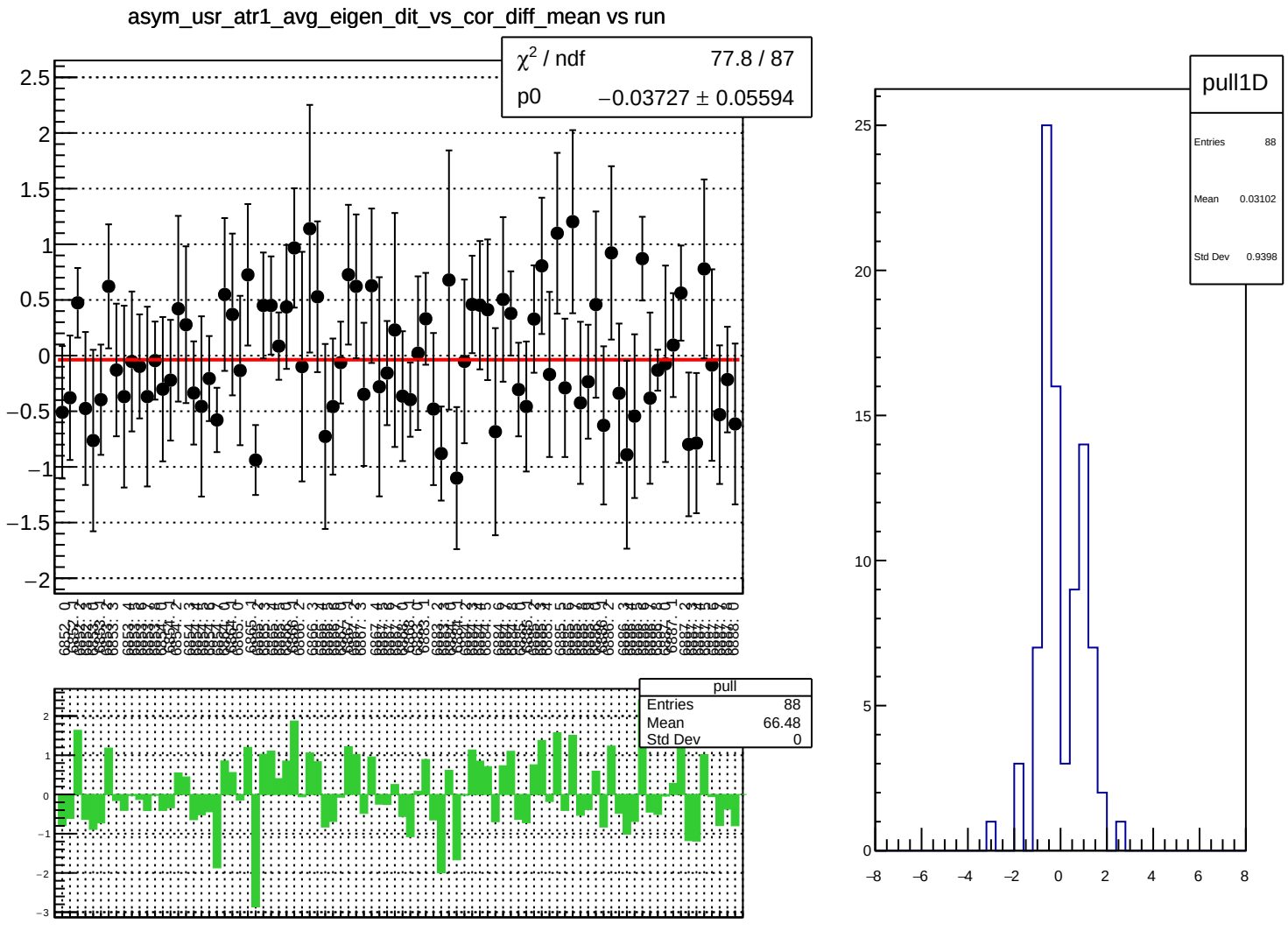

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.8 / 87
p0 −0.03727 ± 0.05594
pull
Entries 88
Mean 66.49
Std Dev 0
pull1D
Entries 88
Mean 0.03101
Std Dev 0.9398

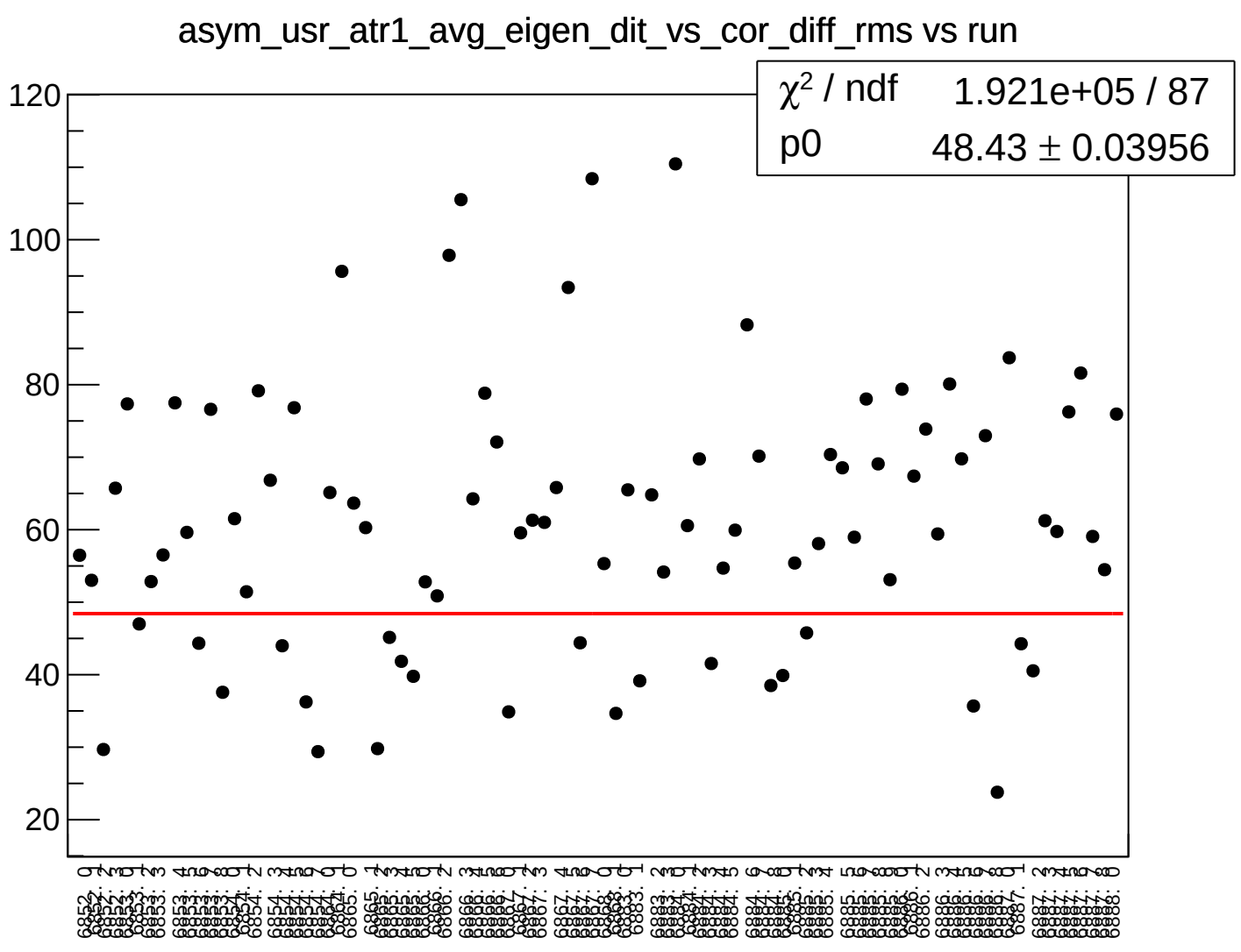

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.921e+05 / 87
p0 48.43 ± 0.03956
120
100
80
60
40
20

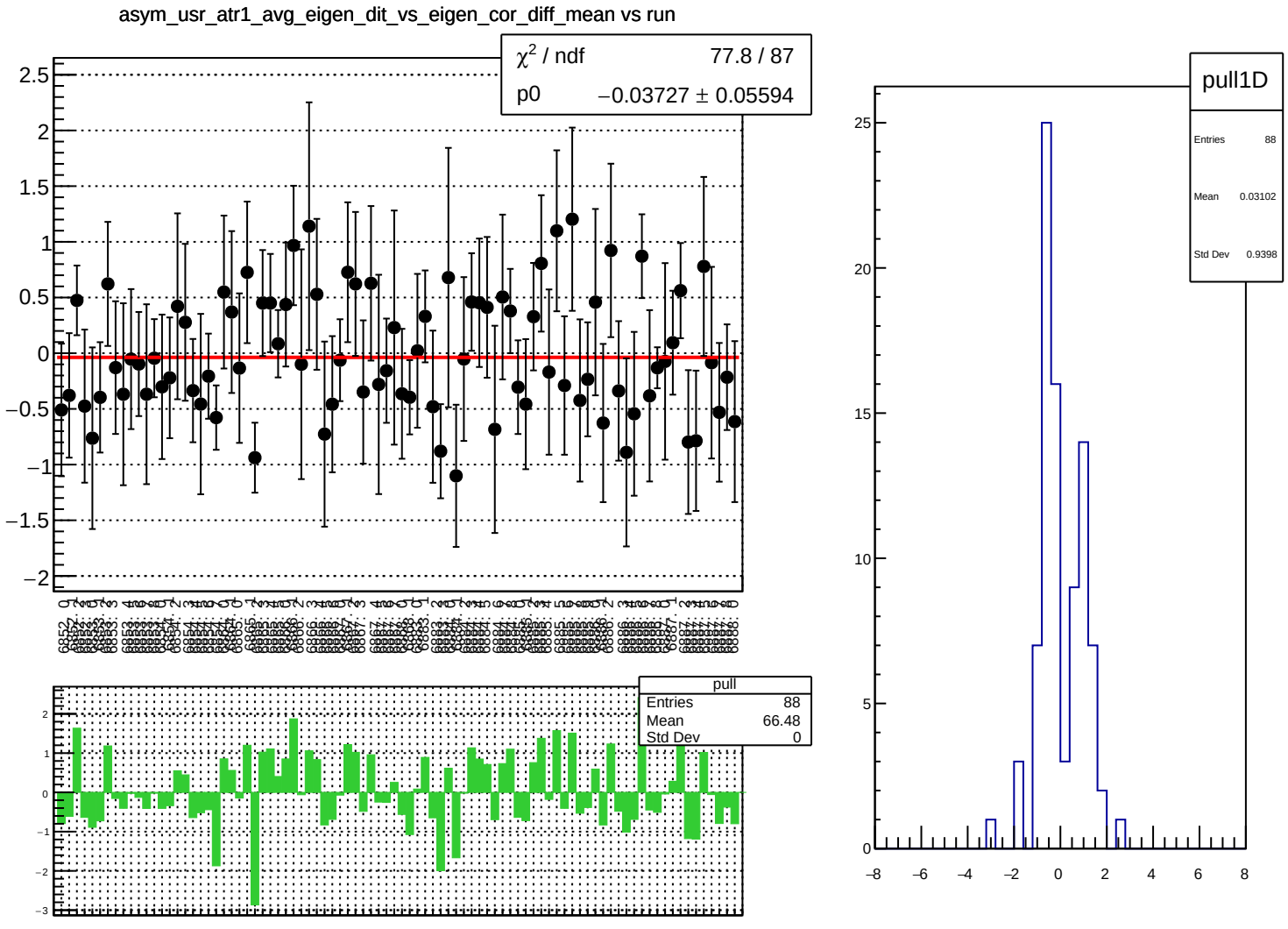

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.45 / 87
p0 −4.996e−06 ± 2.886e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 59.9
Std Dev 0
3
2
1
0
−1
−2
−3

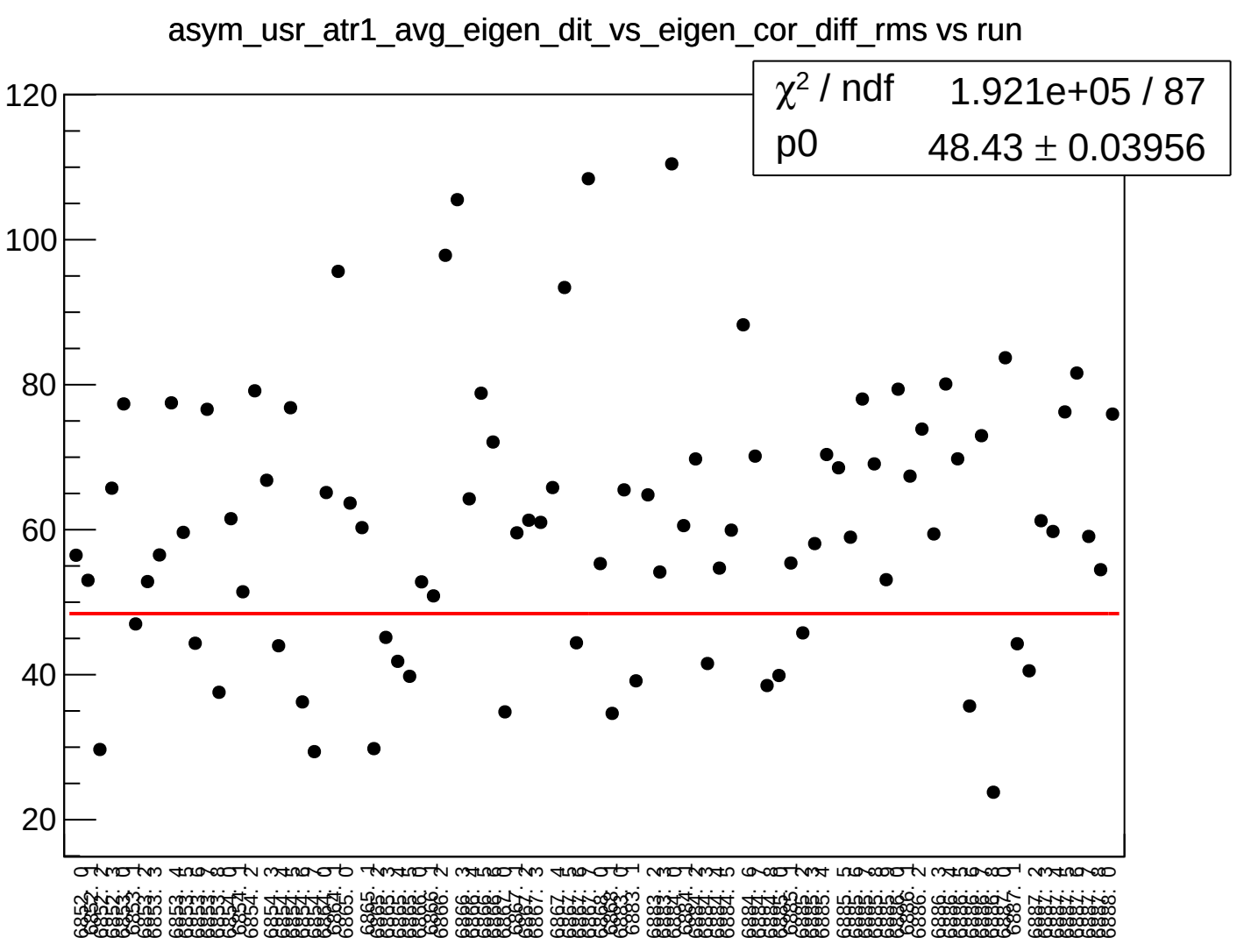

pull1D
Entries 88
Mean 0.05892
Std Dev 0.9951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

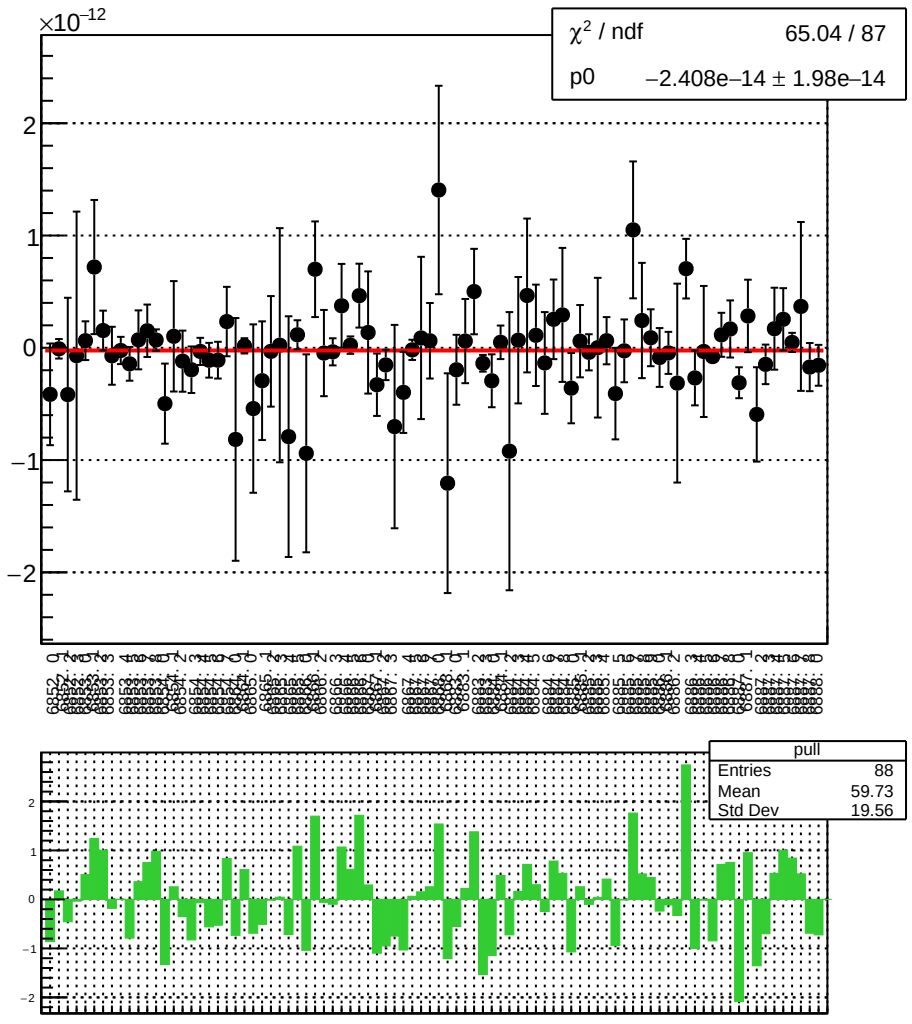

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.474e+05 / 87
p0 0.002535 ± 2.041e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

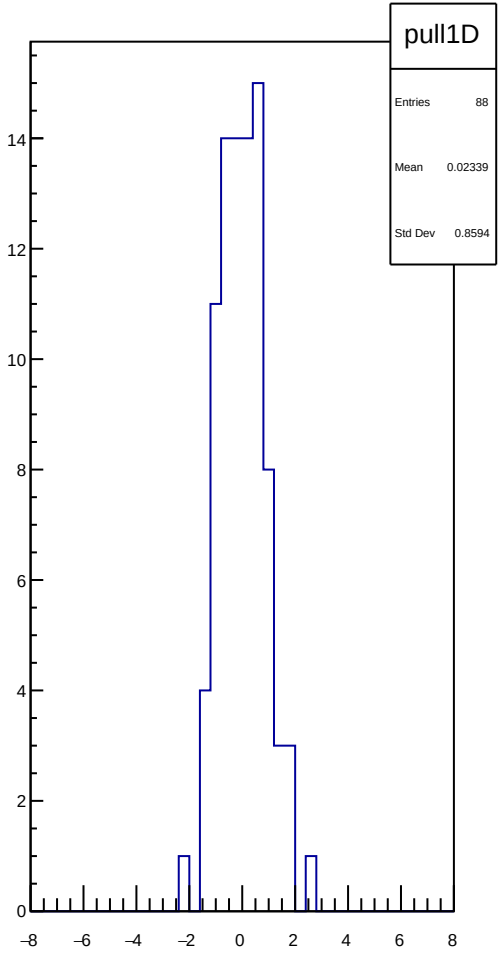

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.8 / 87
p0 −0.03727 ± 0.05594
pull
Entries 88
Mean 66.48
Std Dev 0
pull1D
Entries 88
Mean 0.03102
Std Dev 0.9398

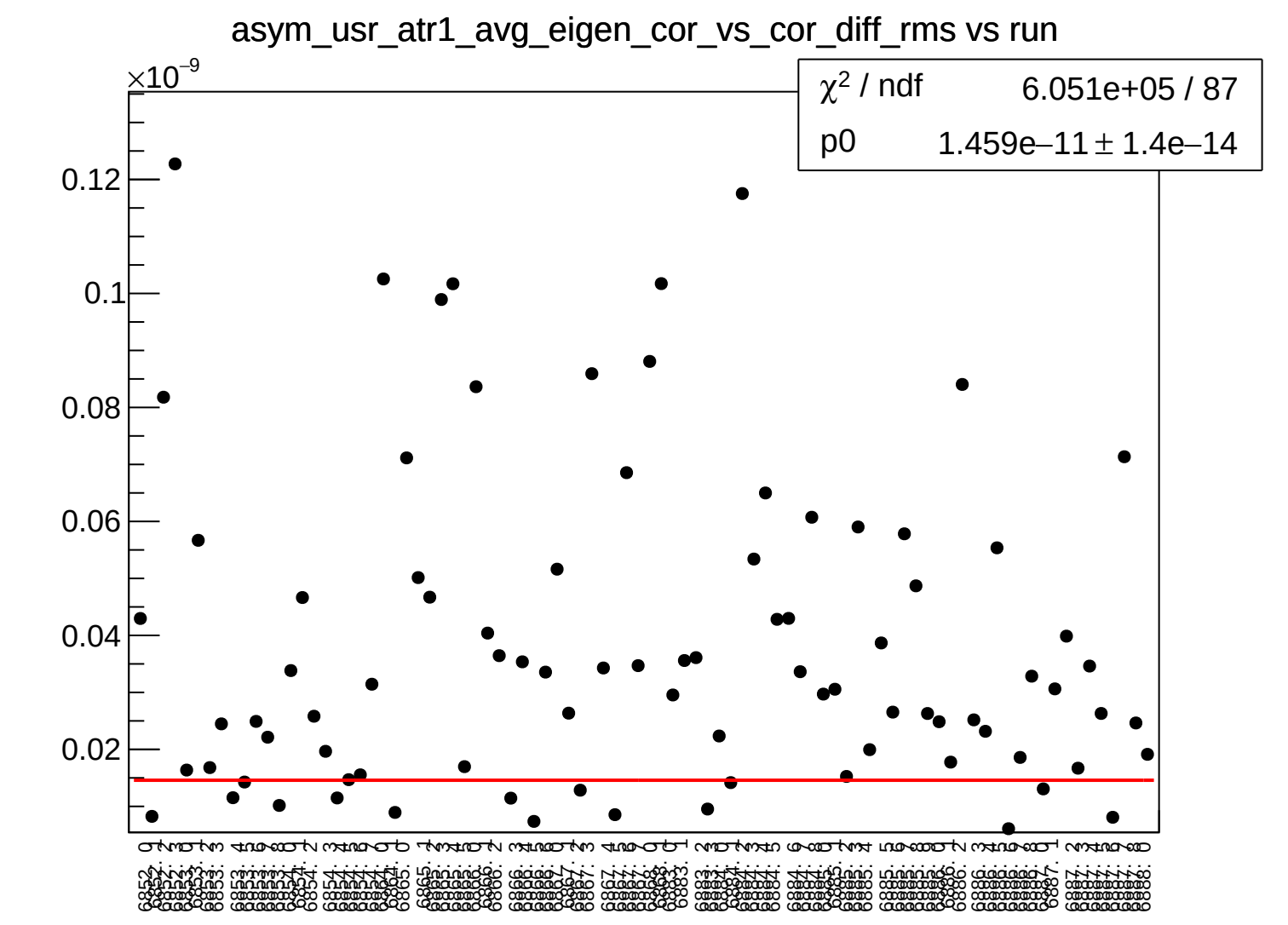

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.921e+05 / 87
p0 48.43 ± 0.03956
120
100
80
60
40
20

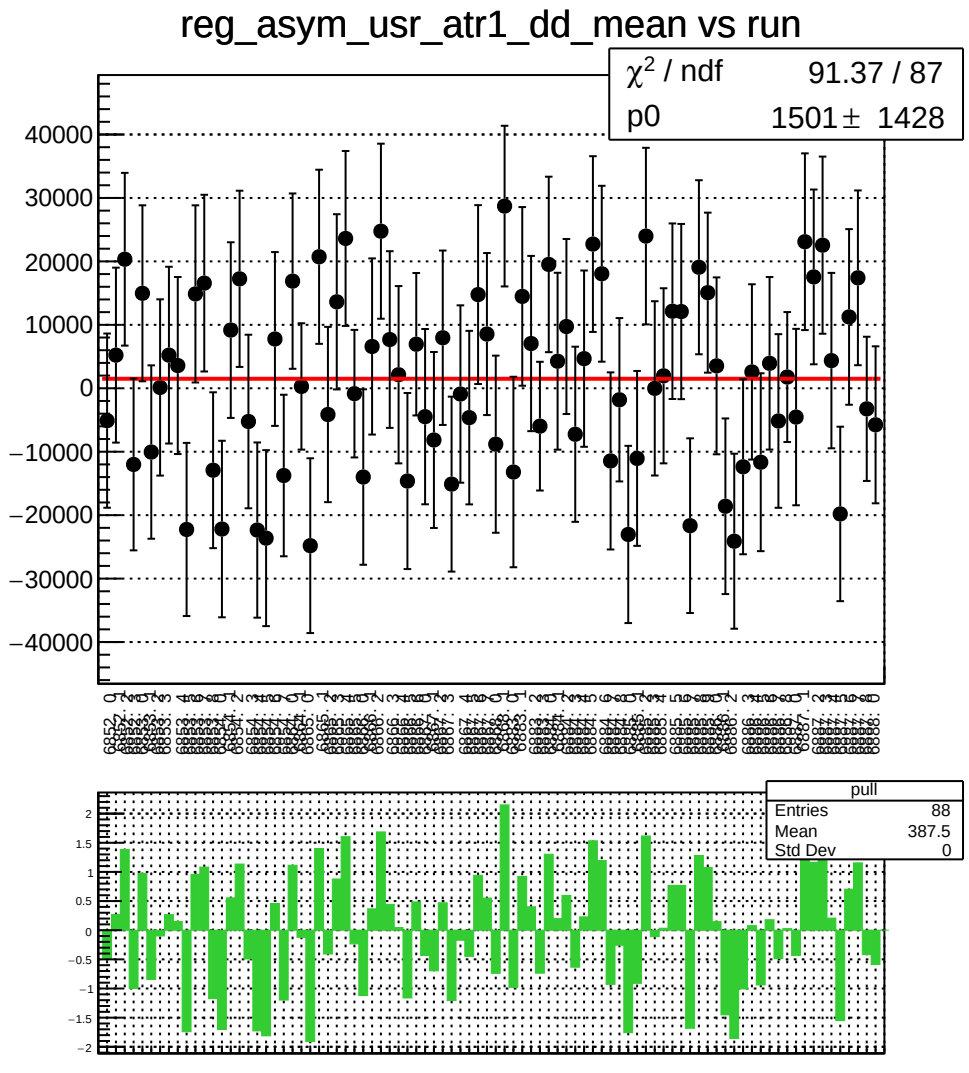

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.8 / 87
p0 −0.03727 ± 0.05594
pull
Entries 88
Mean 66.48
Std Dev 0
pull1D
Entries 88
Mean 0.03102
Std Dev 0.9398

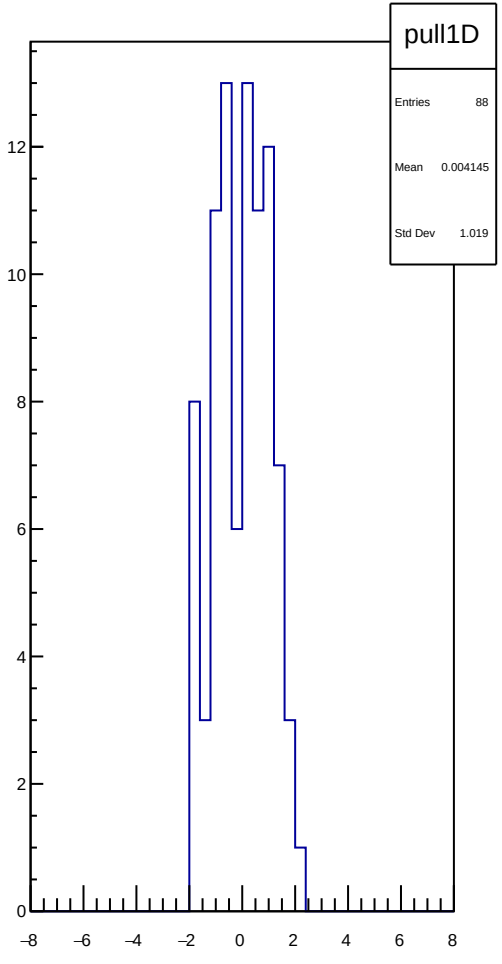

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.921e+05 / 87
p0 48.43 ± 0.03956
120
100
80
60
40
20

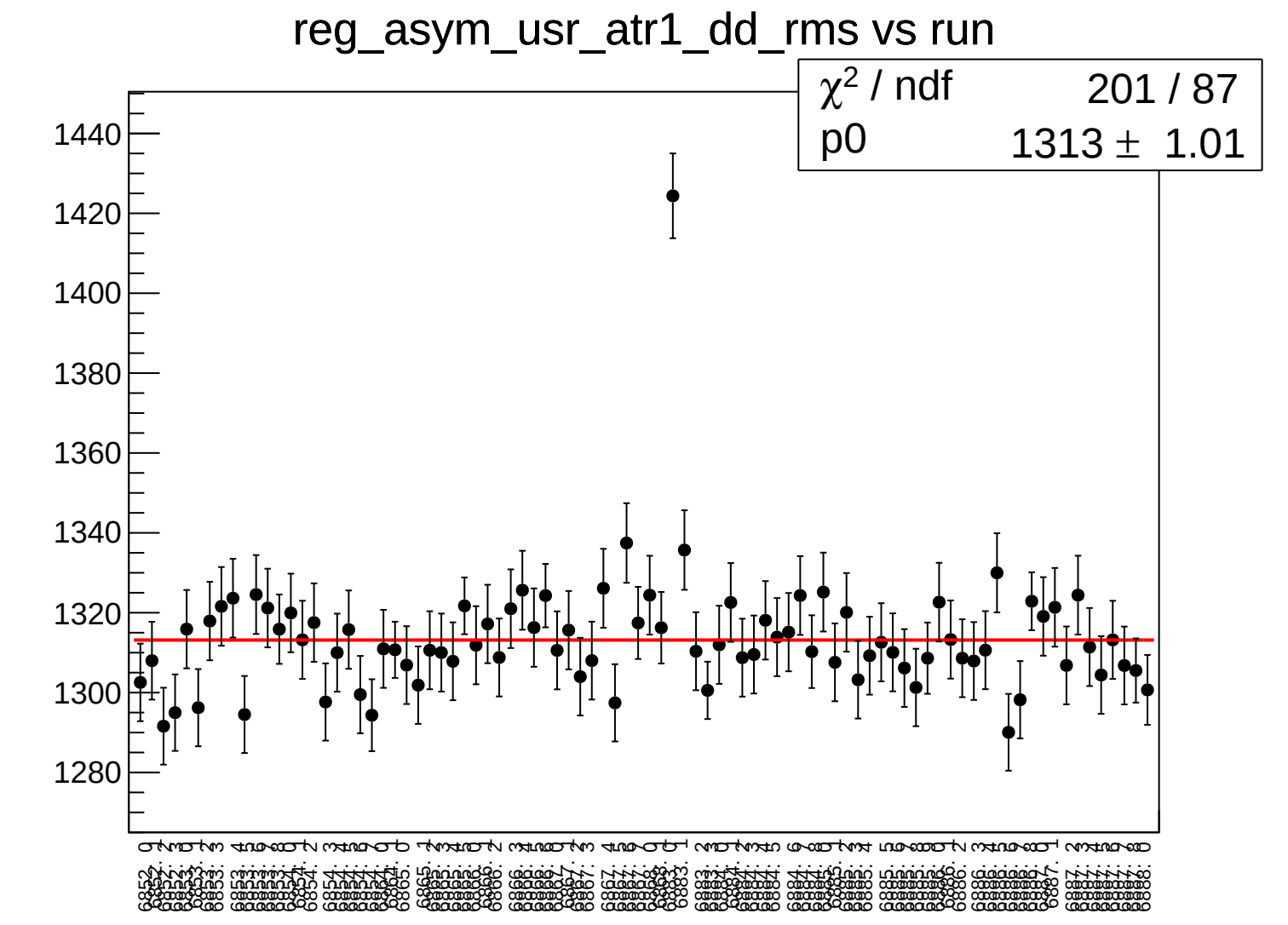

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.04 / 87
p0 −2.408e−14 ± 1.98e−14
pull
Entries 88
Mean 59.73
Std Dev 19.56

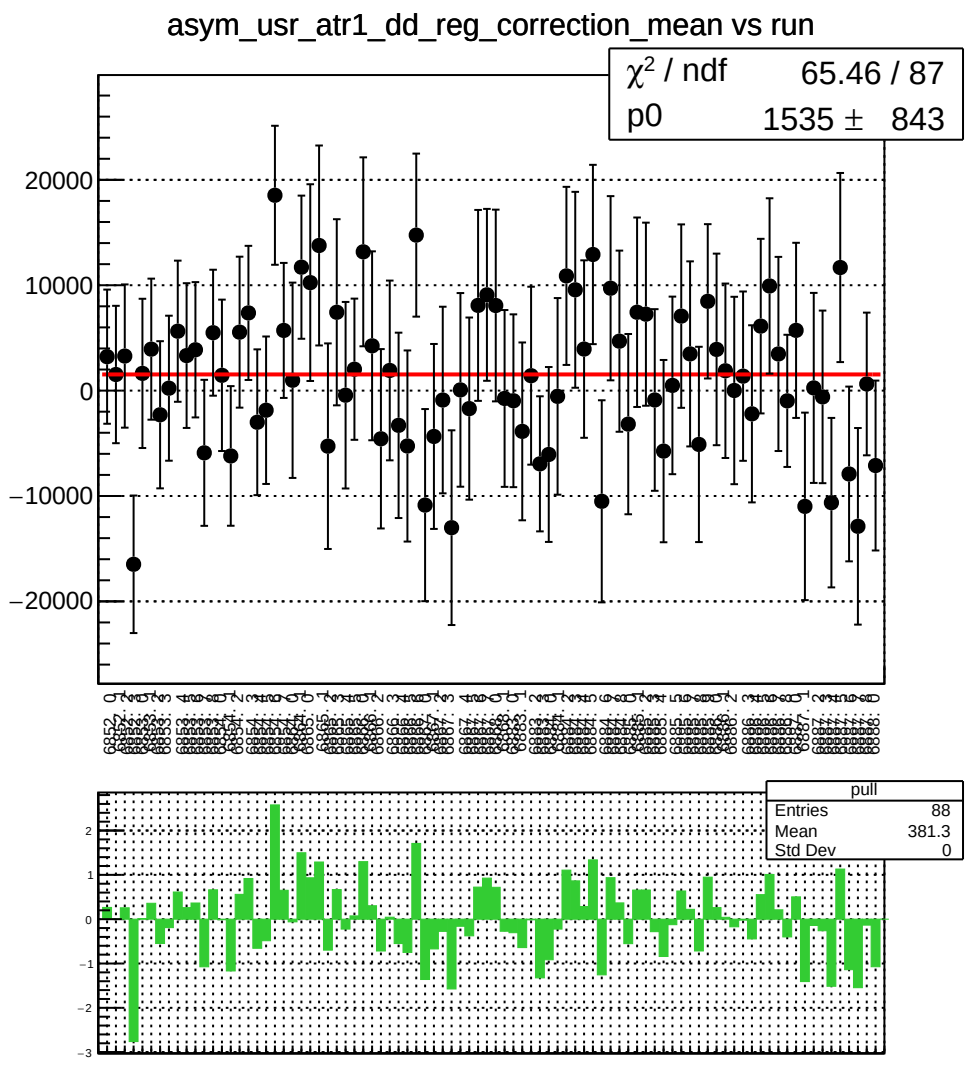

pull1D
Entries 88
Mean 0.02339
Std Dev 0.8594

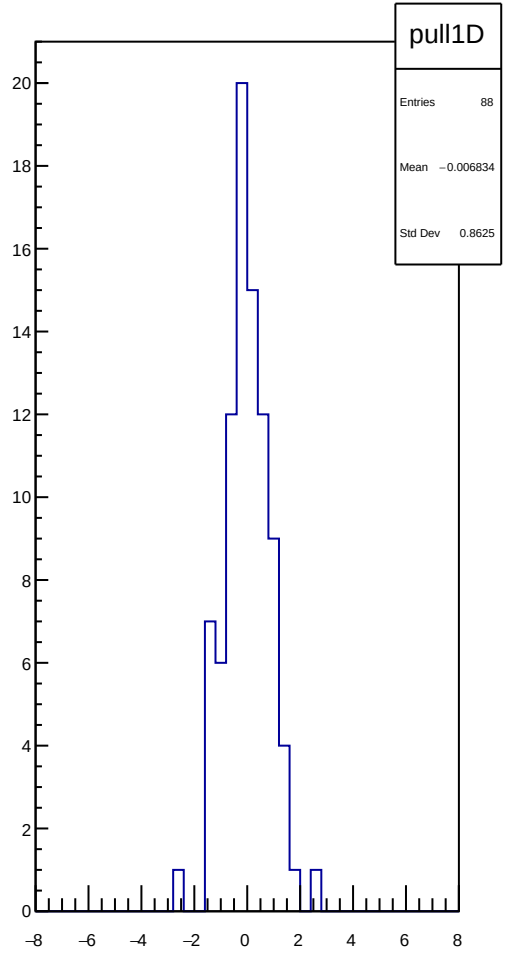

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.051e+05 / 87
p0 1.459e−11 ± 1.4e−14
0.12
0.1
0.08
0.06
0.04
0.02

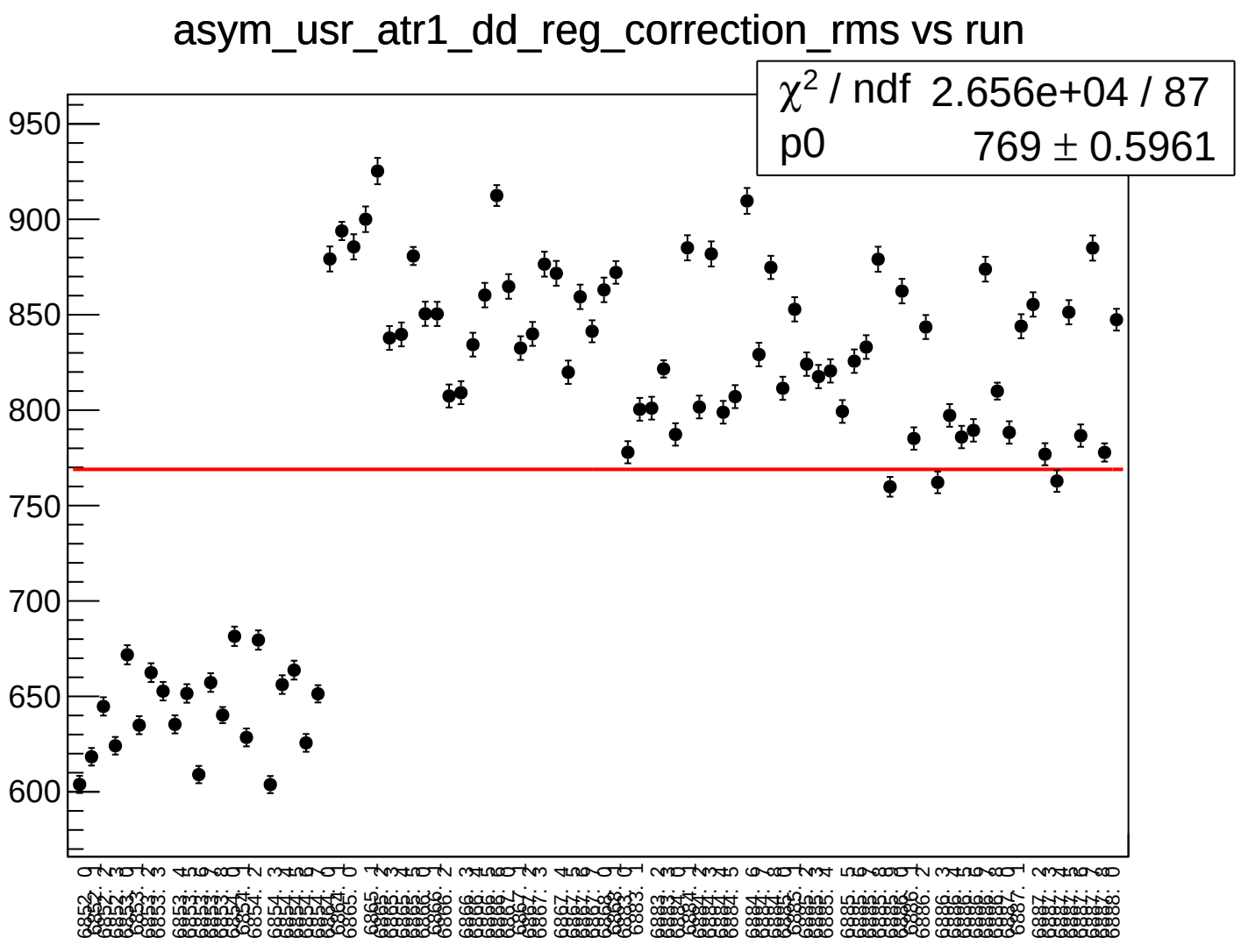

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 91.37 / 87
p0 1501 ± 1428
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 387.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

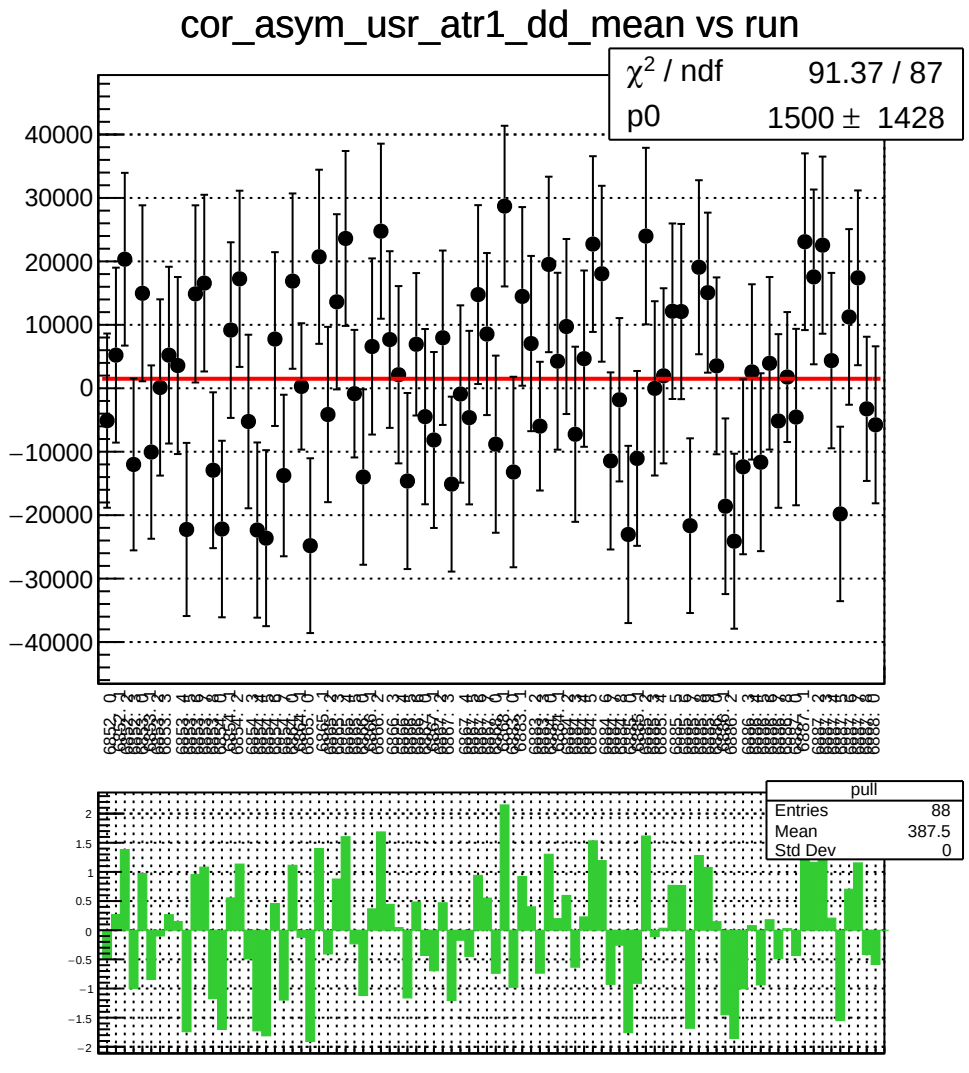

pull1D
Entries 88
Mean 0.004145
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

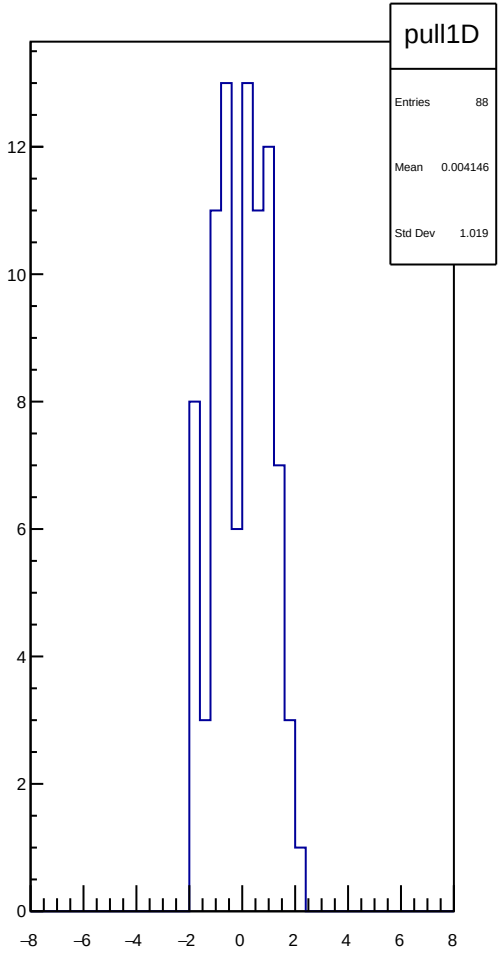

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 201 / 87
p0 1313 ± 1.01
1440
1420
1400
1380
1360
1340
1320
1300
1280

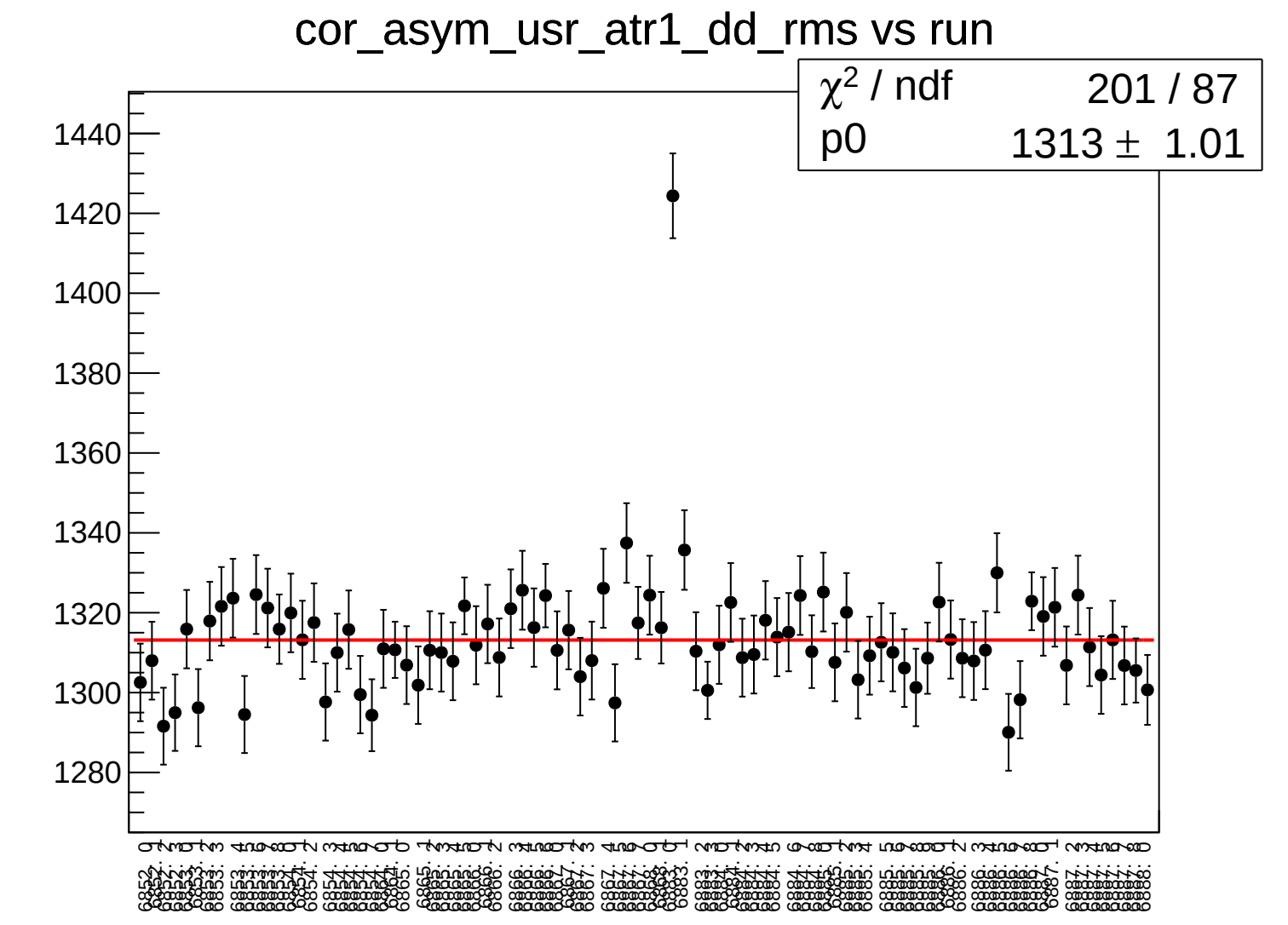

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 65.46 / 87
p0 1535 ± 843
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 381.3
Std Dev 0
2
1
0
−1
−2
−3

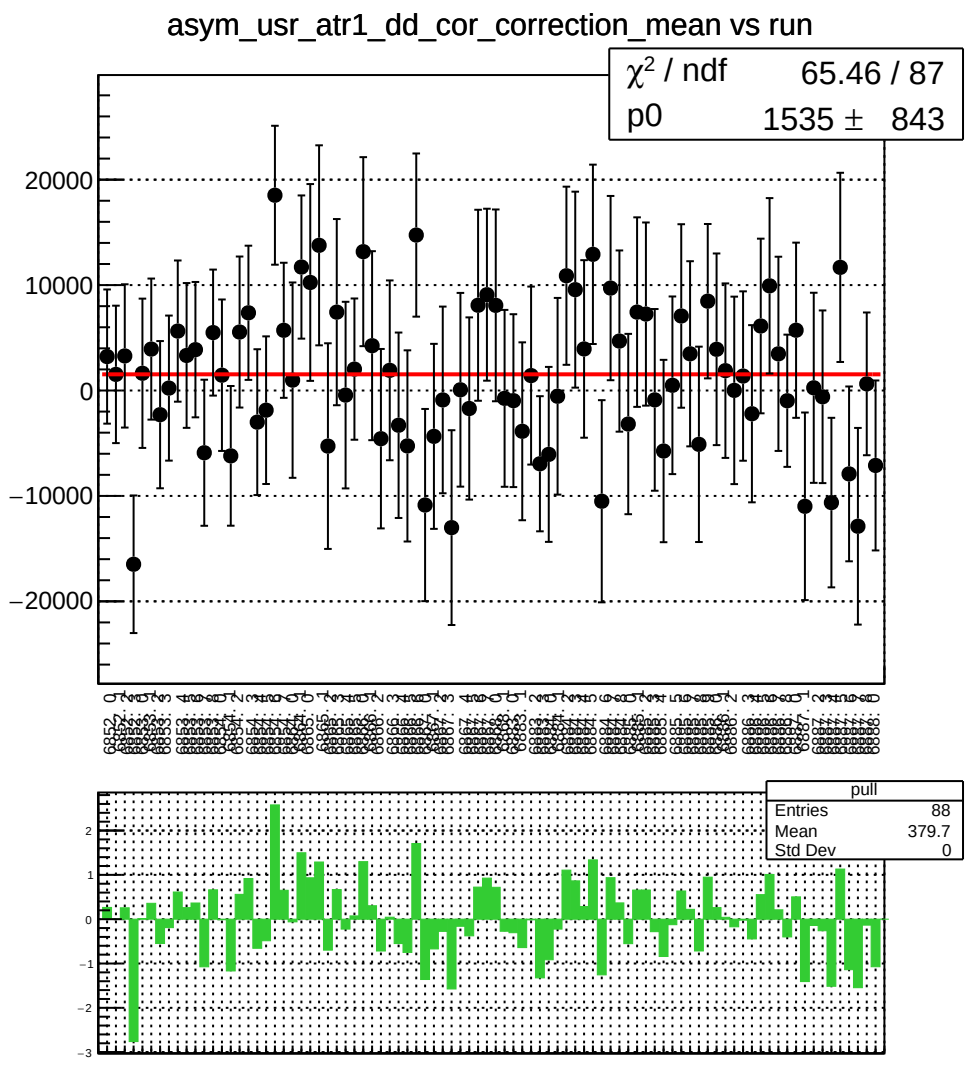

pull1D
Entries 88
Mean −0.006834
Std Dev 0.8625
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

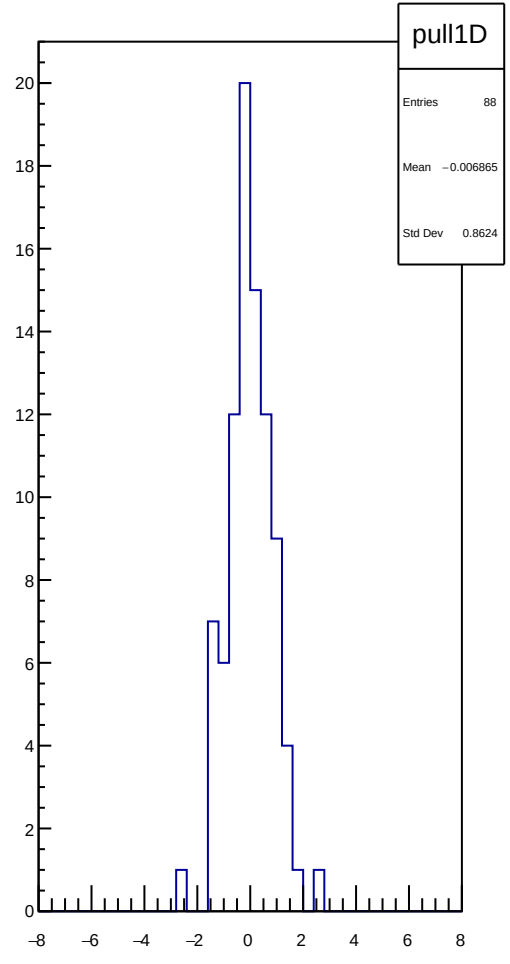

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 2.656e+04 / 87
p0 769 ± 0.5961
950
900
850
800
750
700
650
600

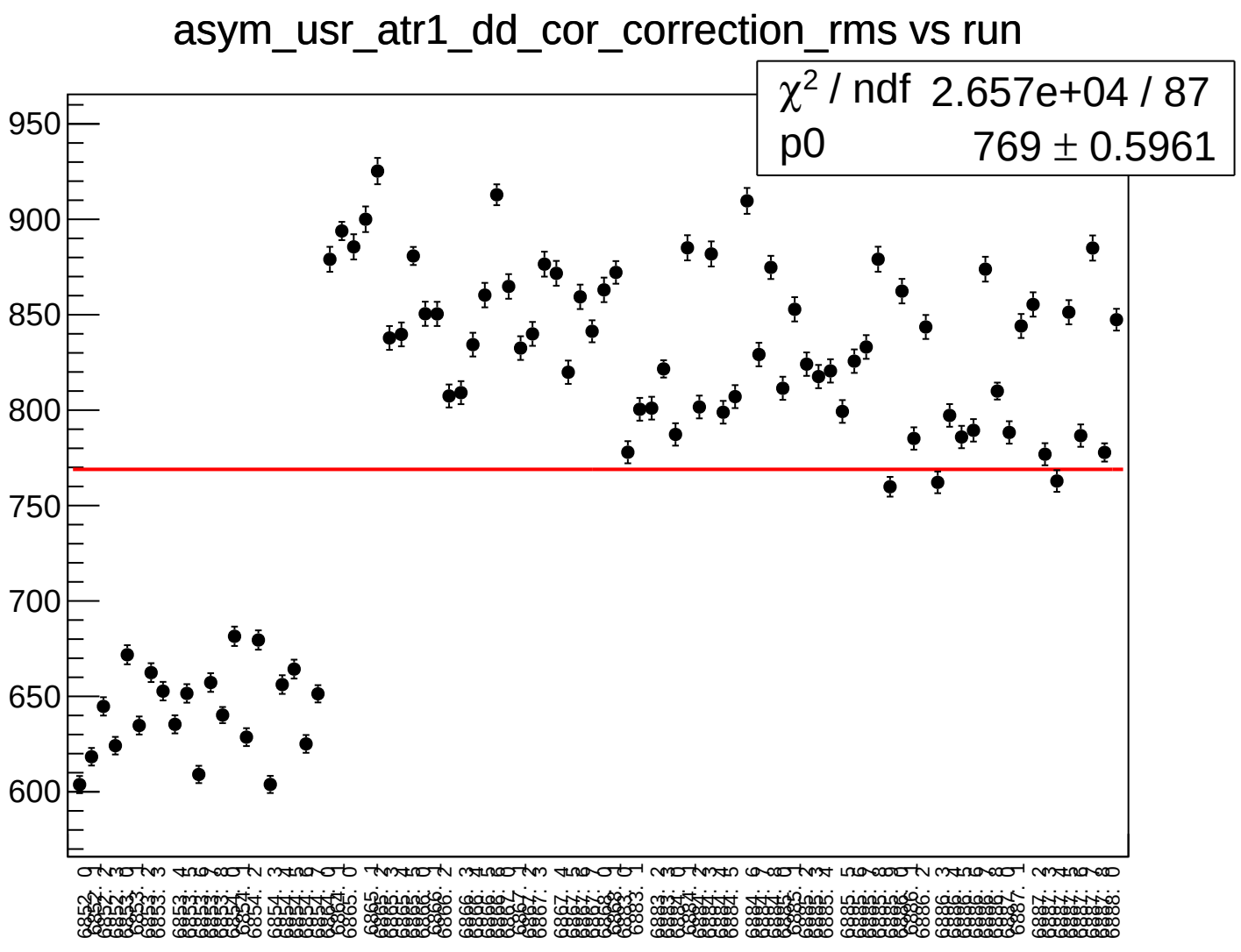

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 91.37 / 87
p0 1500 ± 1428
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 387.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

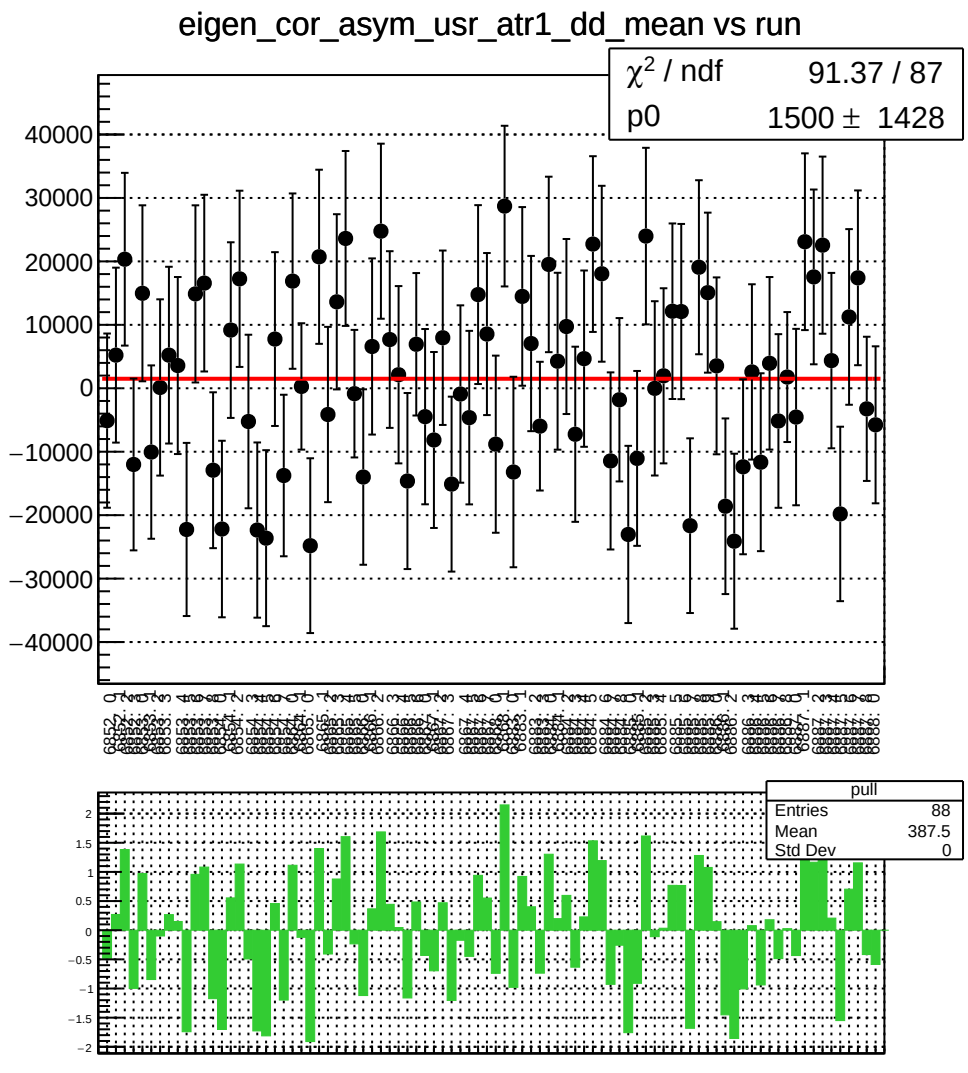

pull1D
Entries 88
Mean 0.004146
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

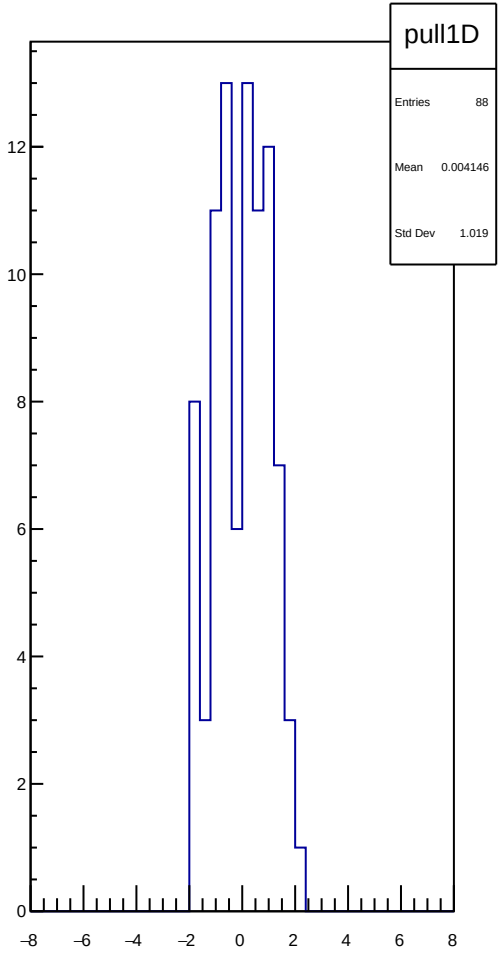

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 201 / 87
p0 1313 ± 1.01
1440
1420
1400
1380
1360
1340
1320
1300
1280

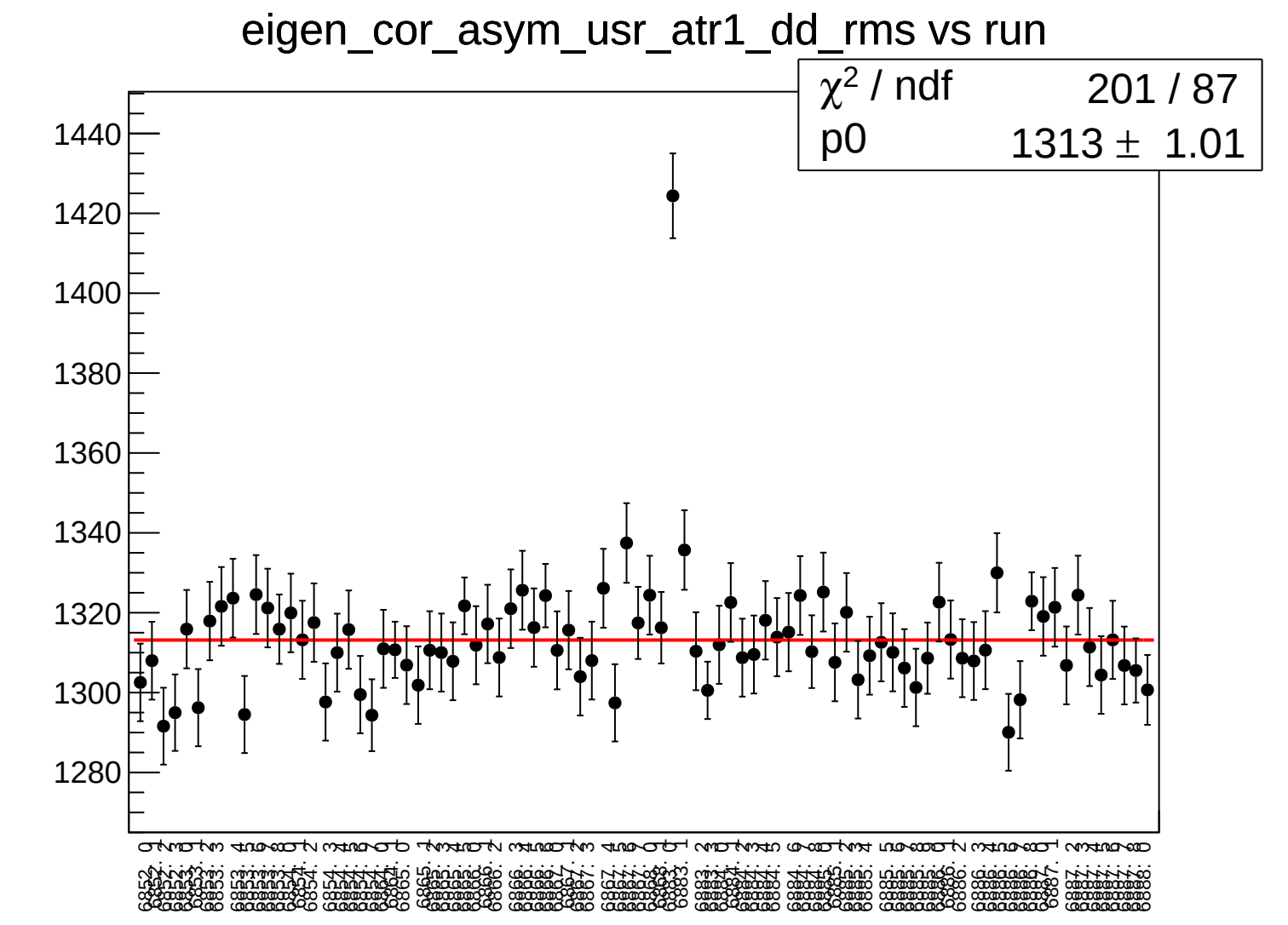

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 65.46 / 87
p0 1535 ± 843
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 379.7
Std Dev 0
2
1
0
−1
−2
−3

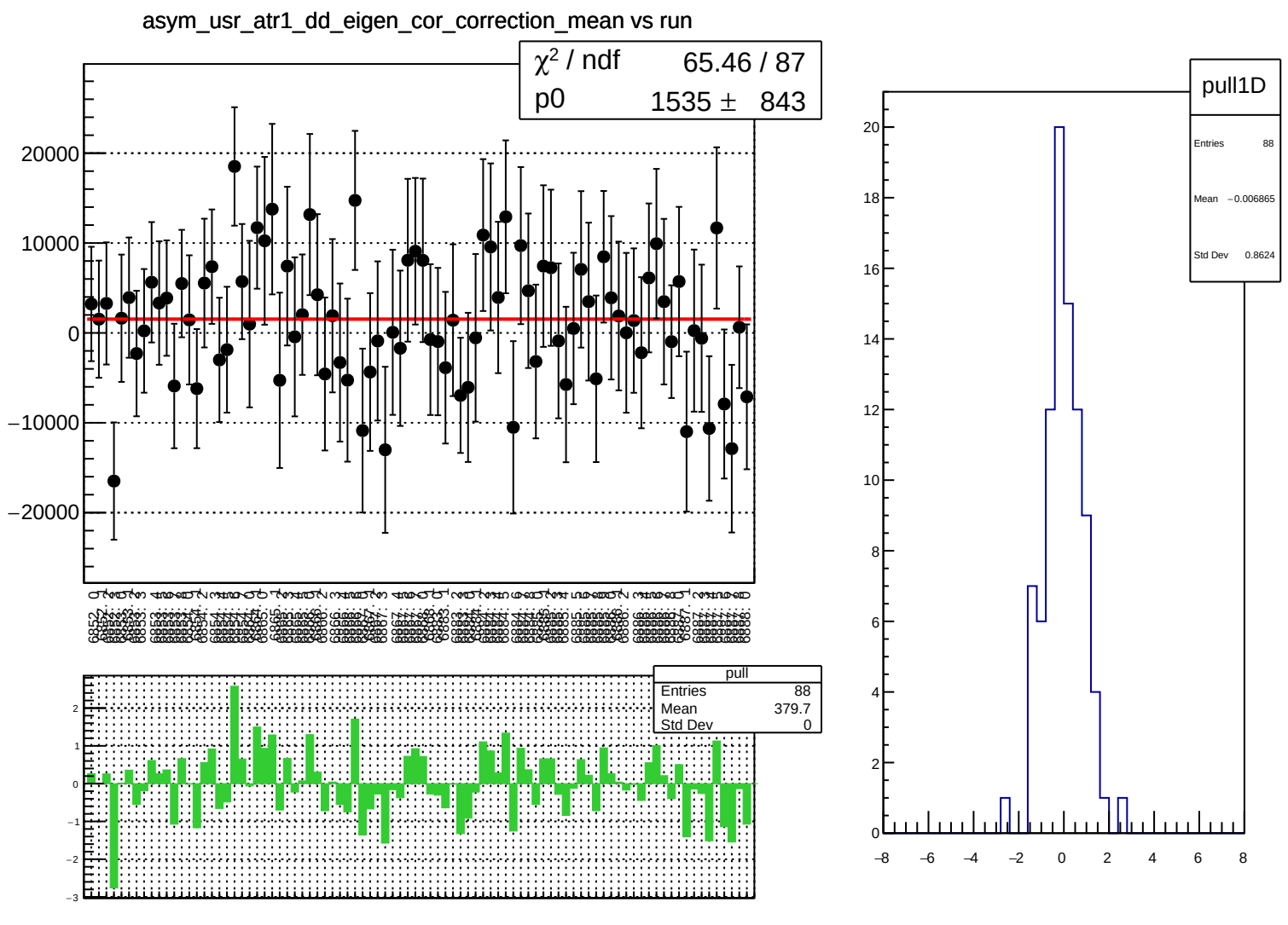

pull1D
Entries 88
Mean −0.006865
Std Dev 0.8624
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

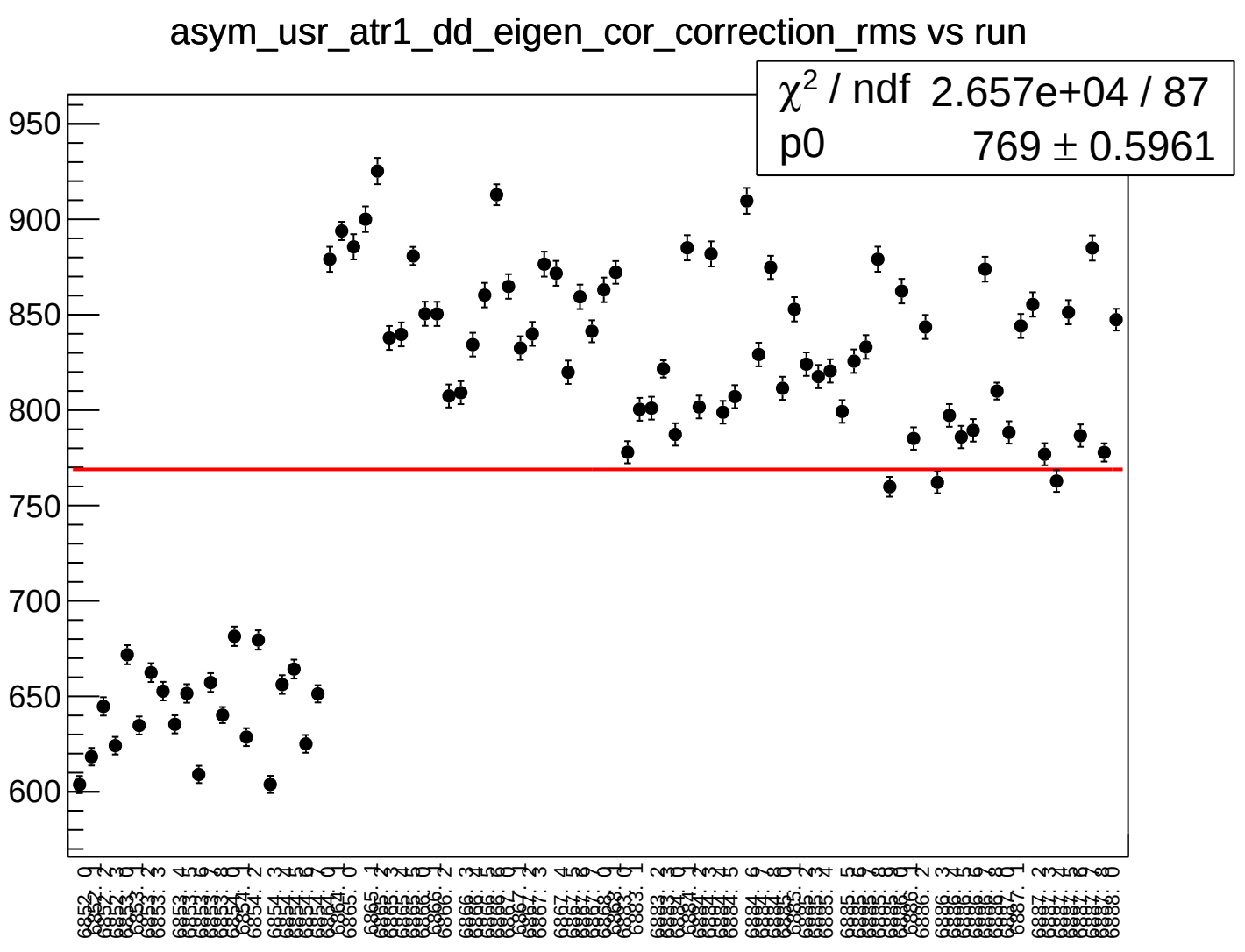

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 2.657e+04 / 87
p0 769 ± 0.5961
950
900
850
800
750
700
650
600

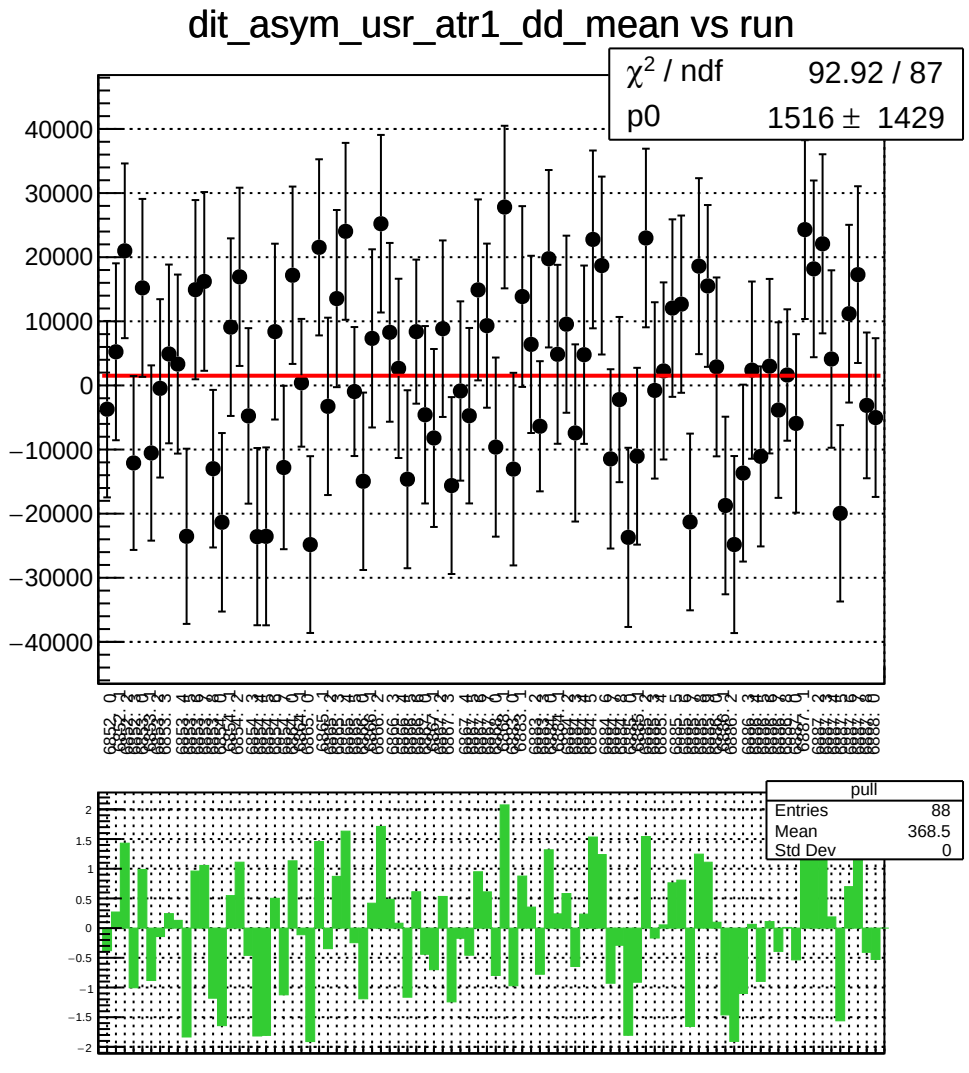

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 91.37 / 87
p0 1500 ± 1428
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 387.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

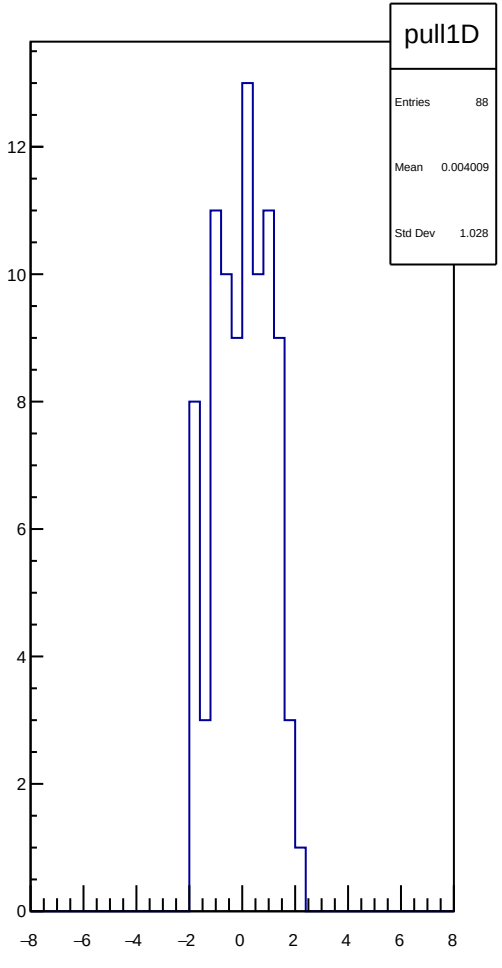

pull1D
Entries 88
Mean 0.004146
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

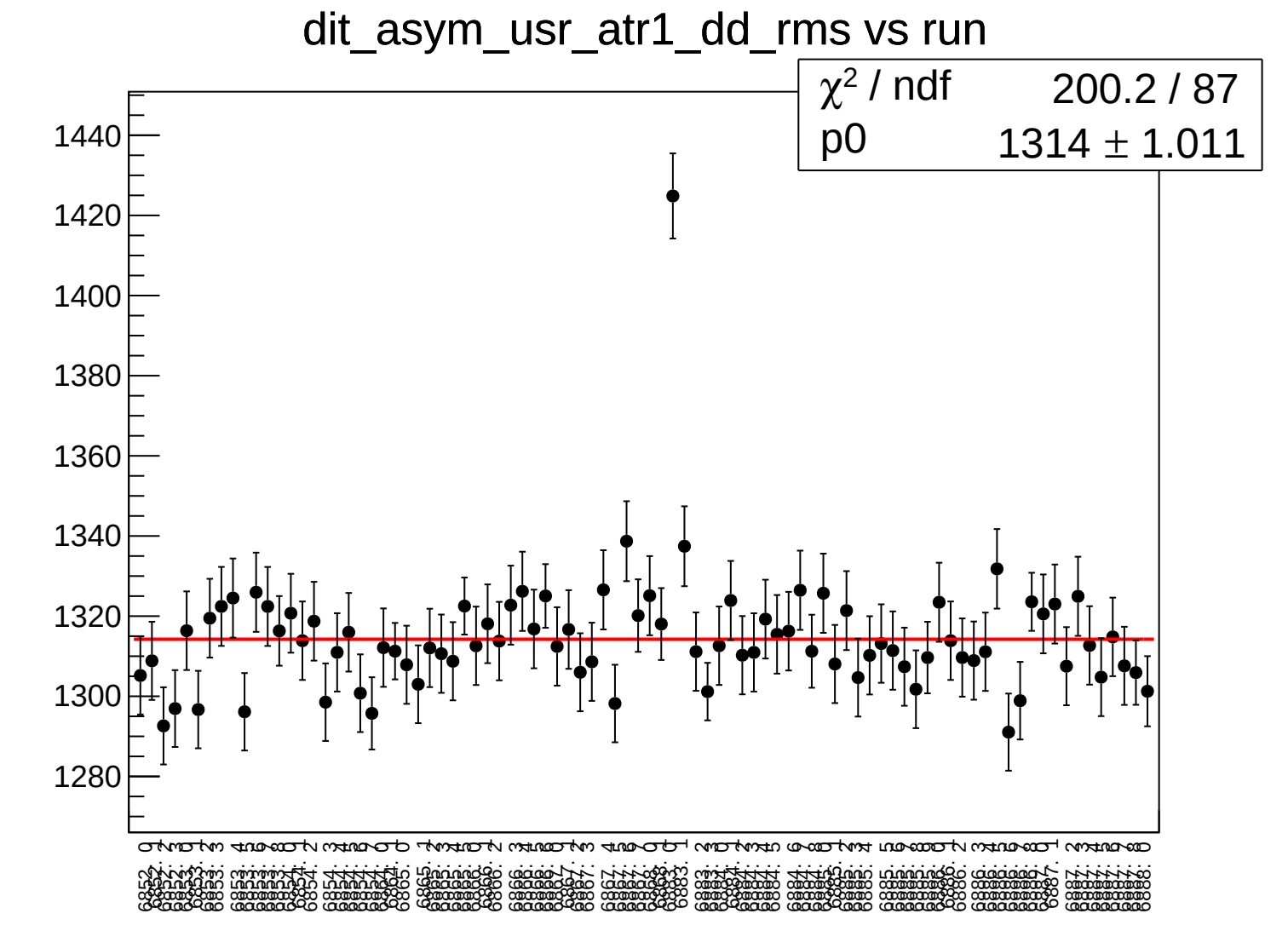

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 201 / 87
p0 1313 ± 1.01
1440
1420
1400
1380
1360
1340
1320
1300
1280

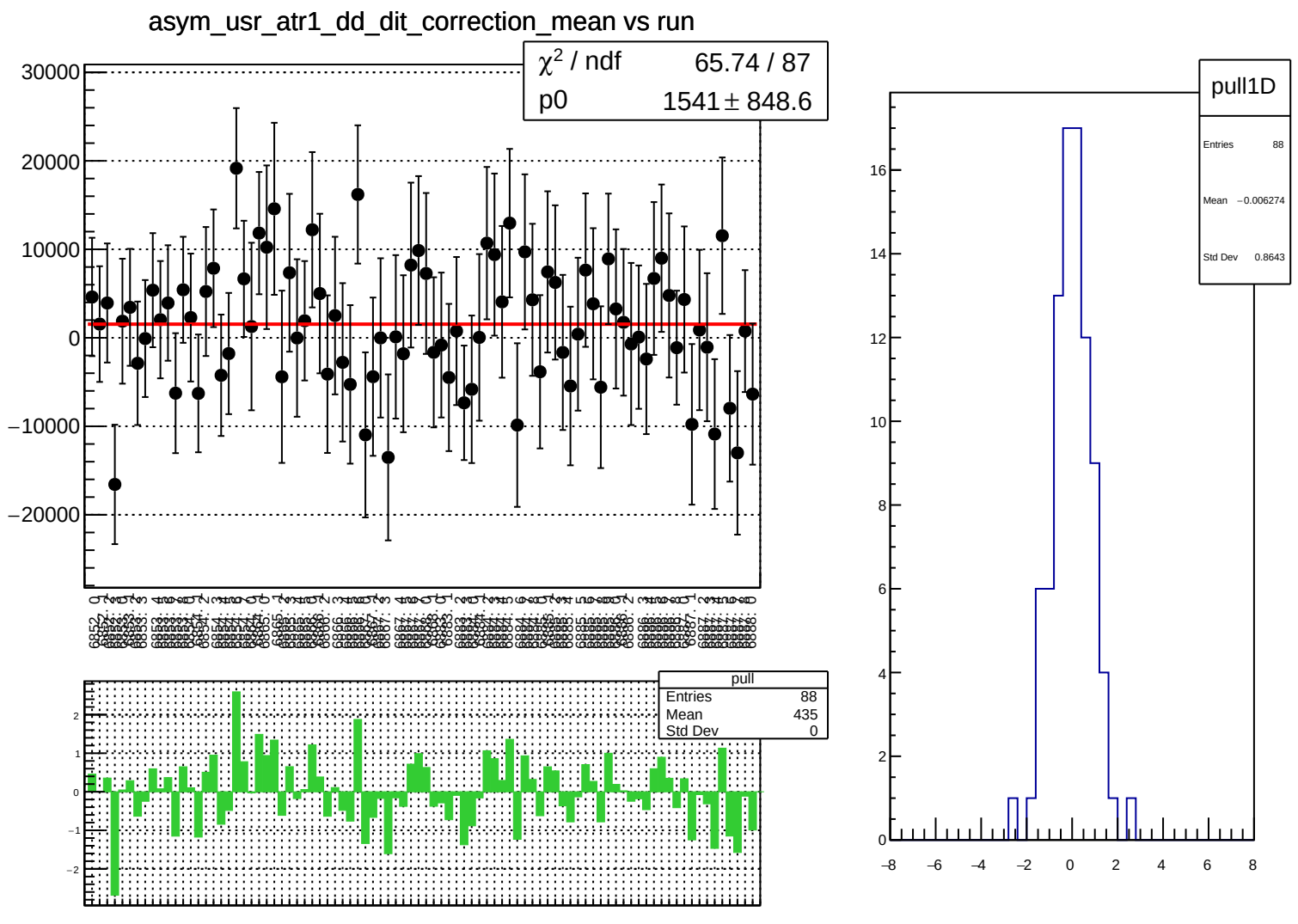

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.46 / 87
p0 1535 ± 843
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 379.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.006865
Std Dev 0.8624
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

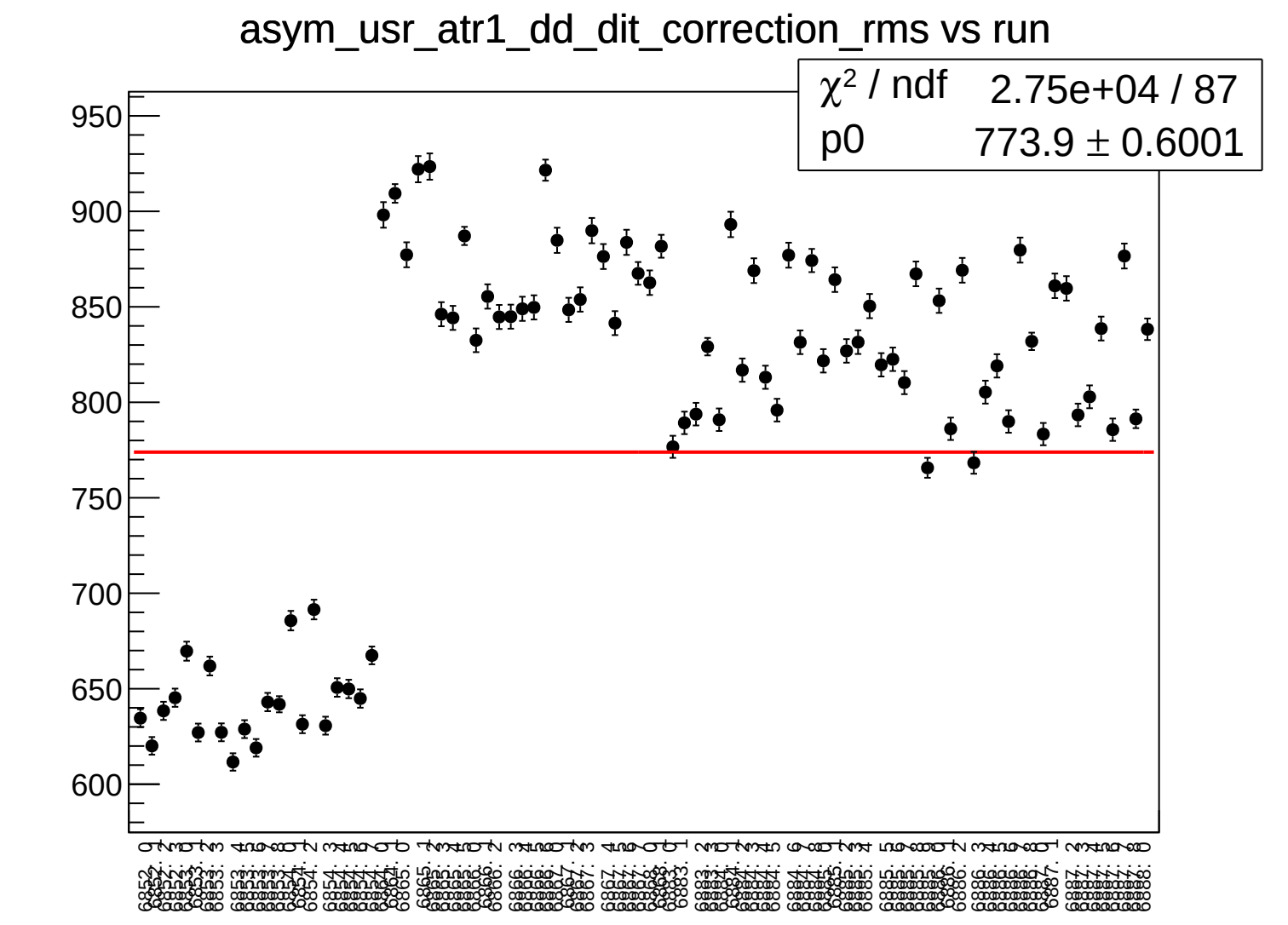

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.657e+04 / 87
p0 769 ± 0.5961
950
900
850
800
750
700
650
600

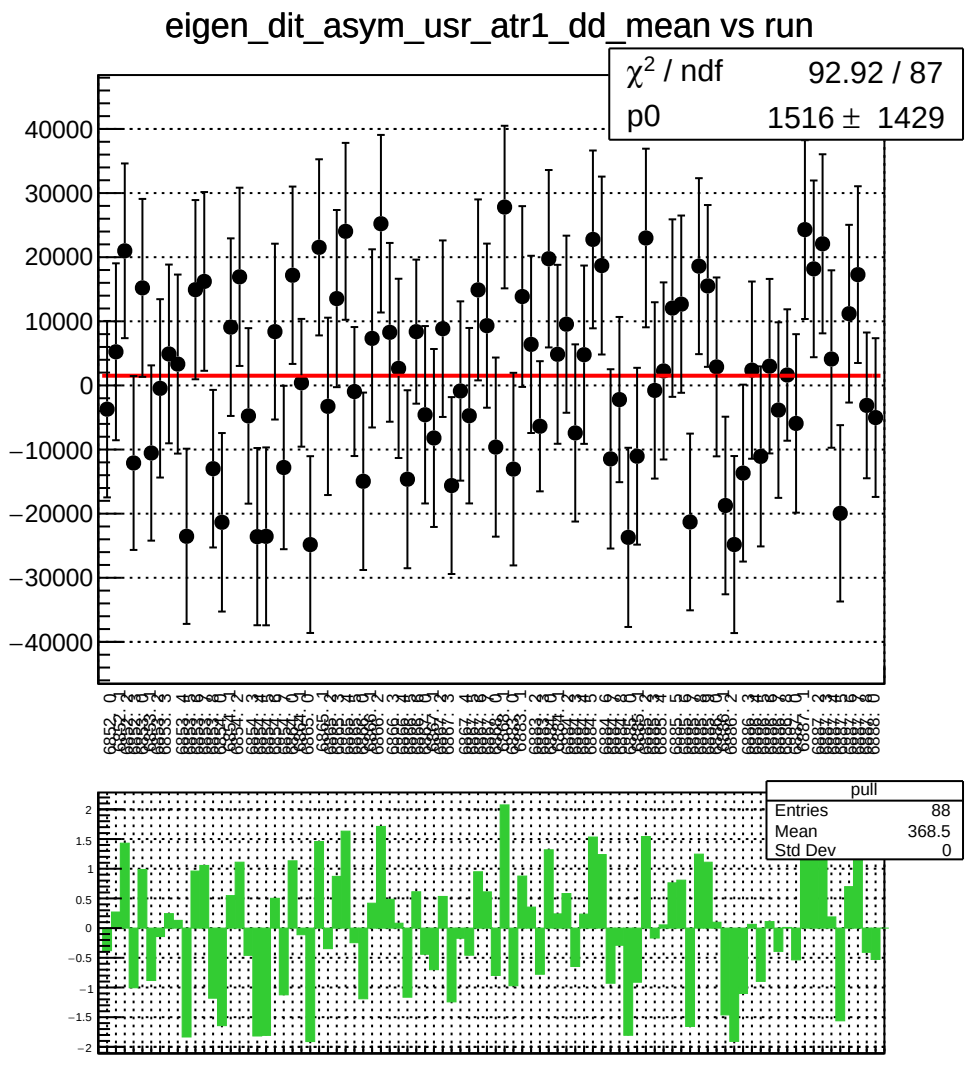

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 92.92 / 87
p0 1516 ± 1429
pull
Entries 88
Mean 368.5
Std Dev 0

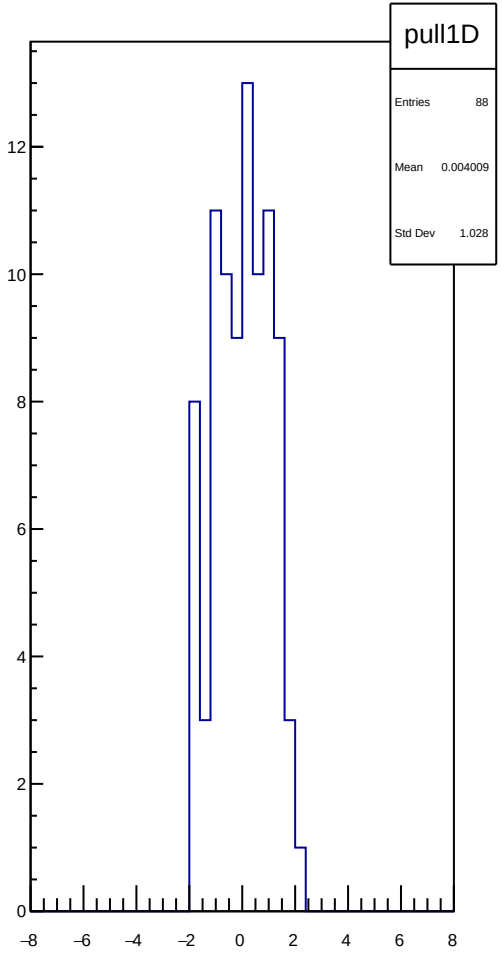

pull1D
Entries 88
Mean 0.004009
Std Dev 1.028

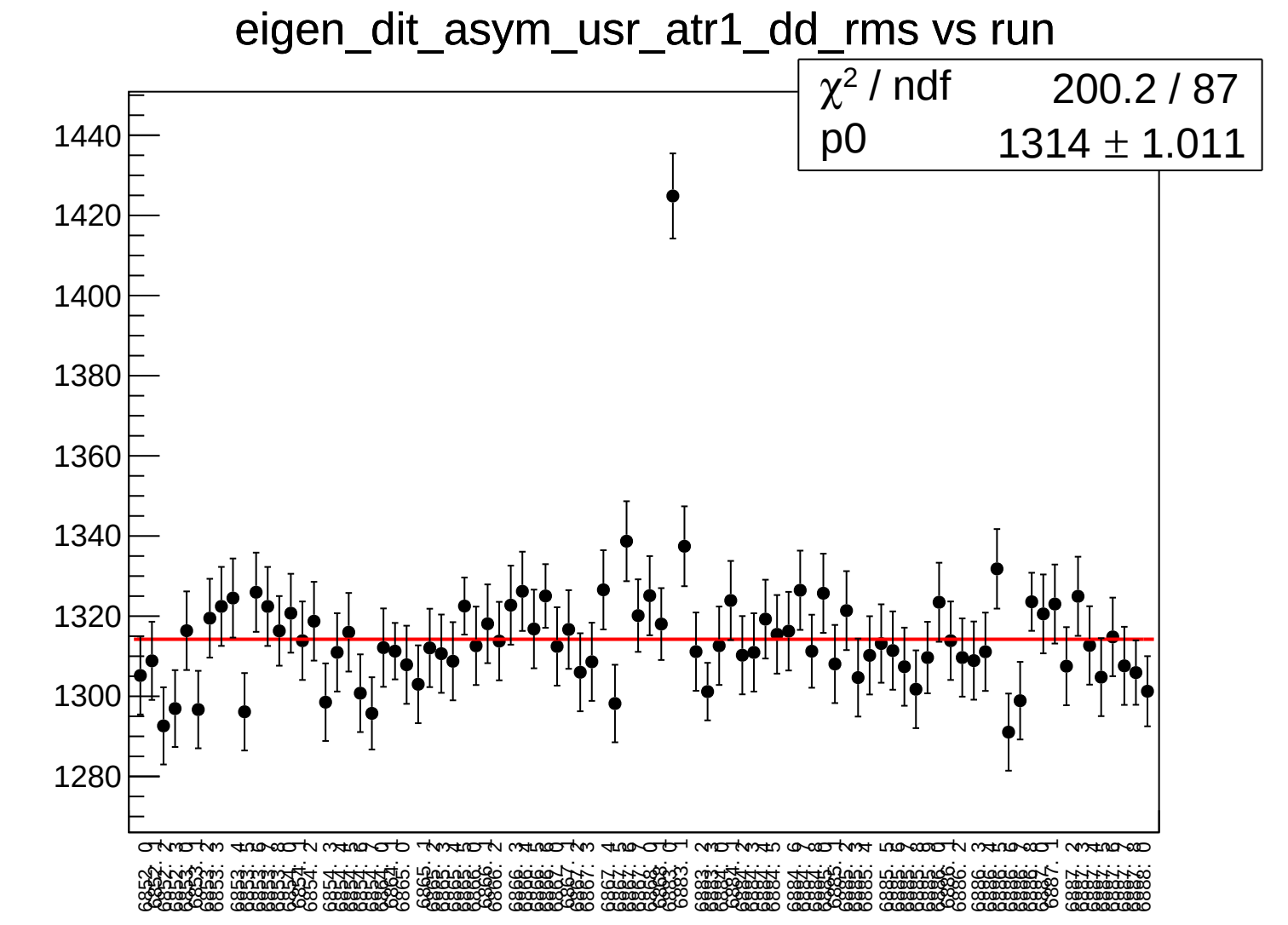

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 200.2 / 87
p0 1314 ± 1.011
1440
1420
1400
1380
1360
1340
1320
1300
1280

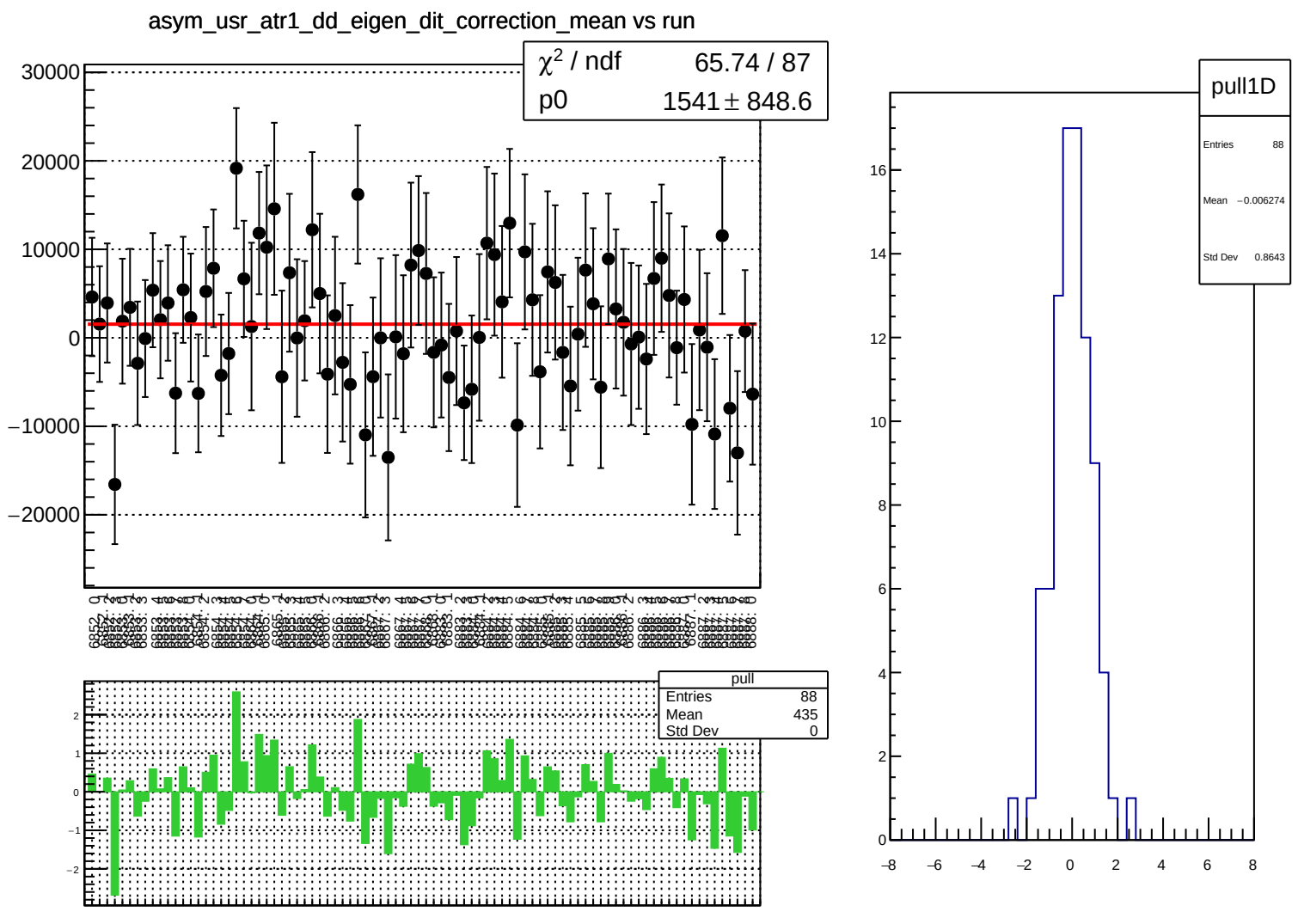

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 65.74 / 87
p0 1541 ± 848.6
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 435
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.006274
Std Dev 0.8643
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

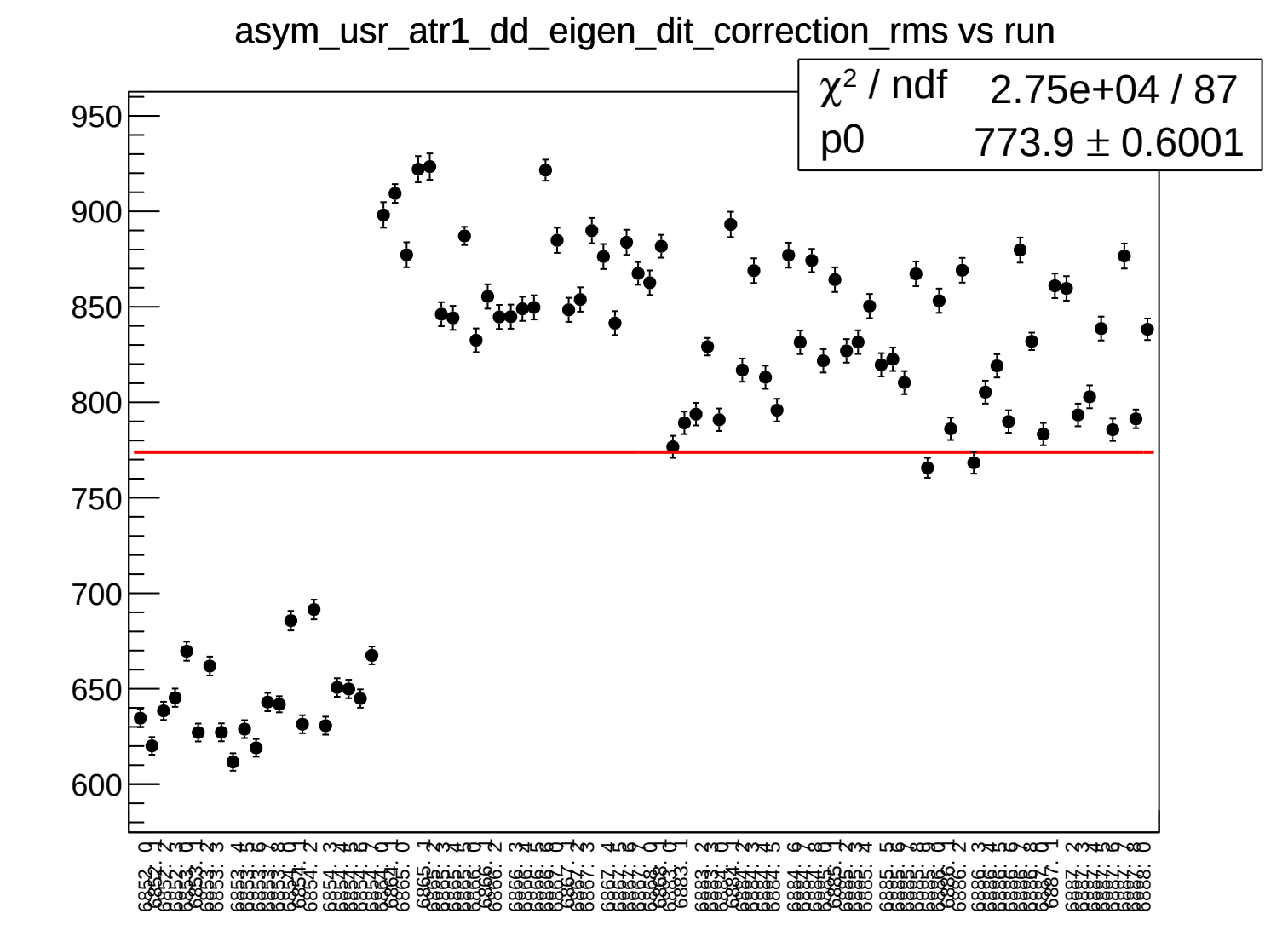

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 2.75e+04 / 87
p0 773.9 ± 0.6001
950
900
850
800
750
700
650
600

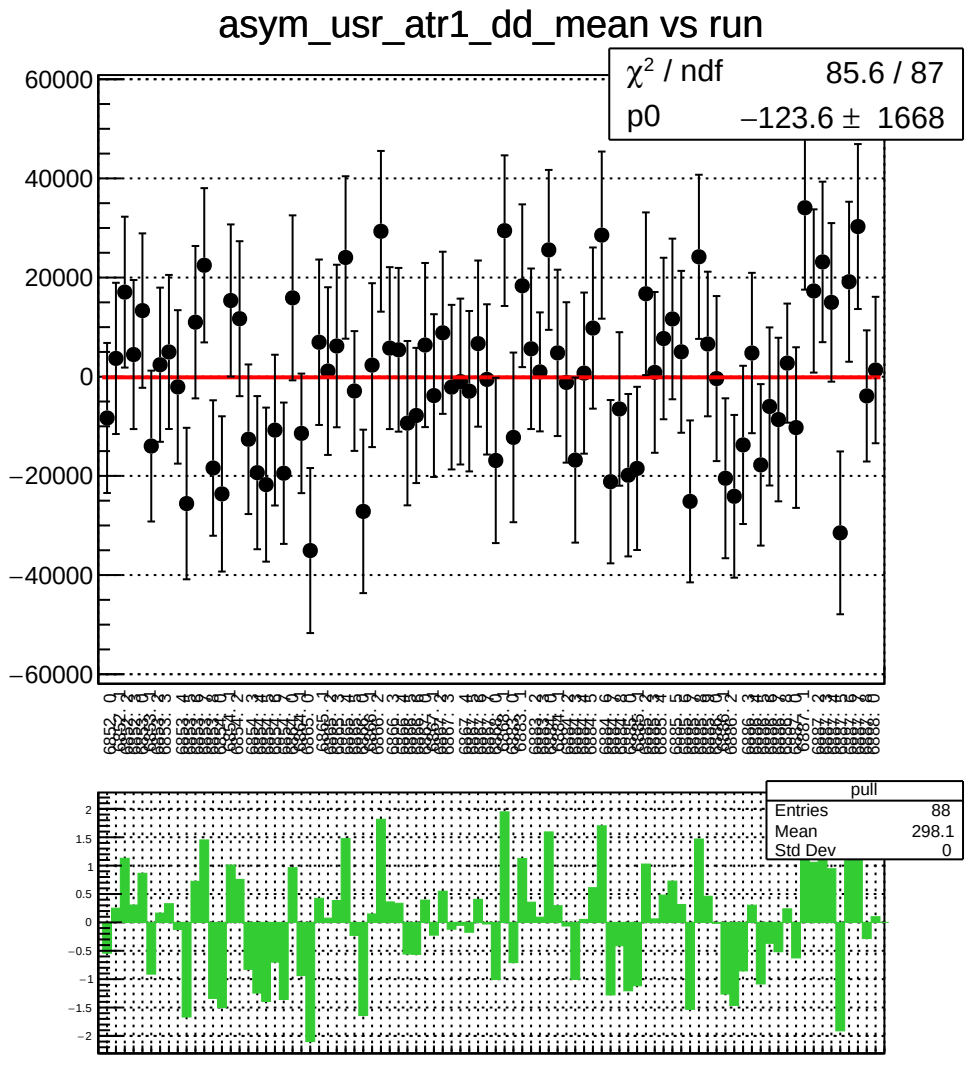

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 92.92 / 87
p0 1516 ± 1429
pull
Entries 88
Mean 368.5
Std Dev 0

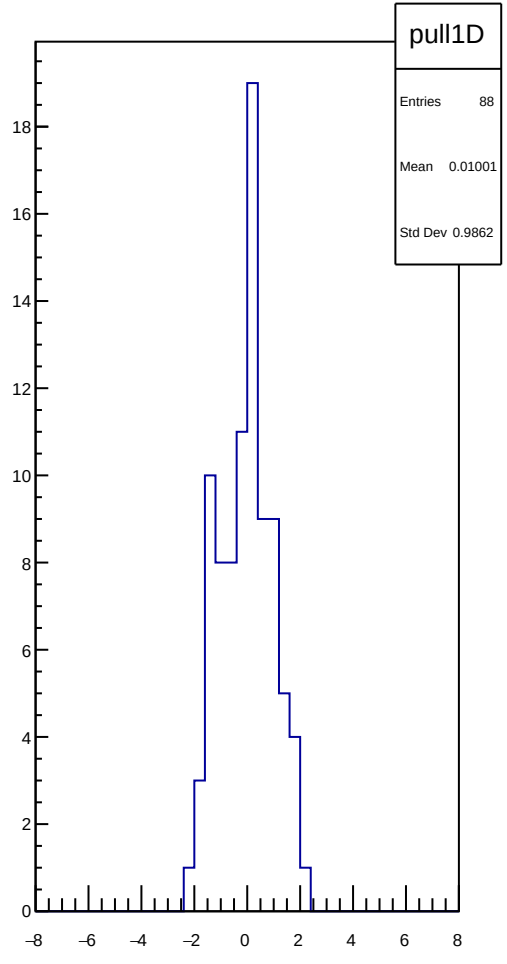

pull1D
Entries 88
Mean 0.004009
Std Dev 1.028

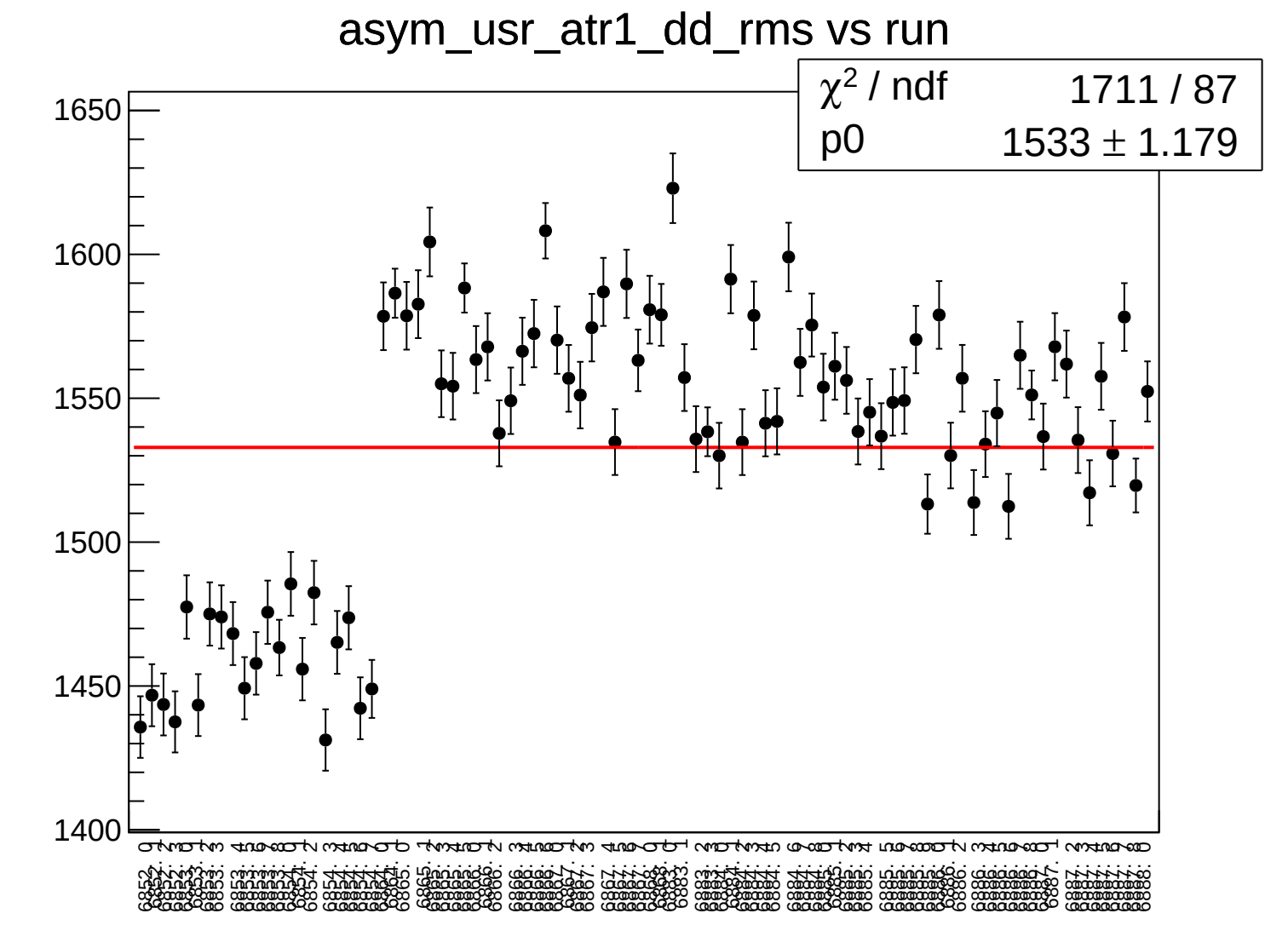

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 200.2 / 87
p0 1314 ± 1.011
1440
1420
1400
1380
1360
1340
1320
1300
1280

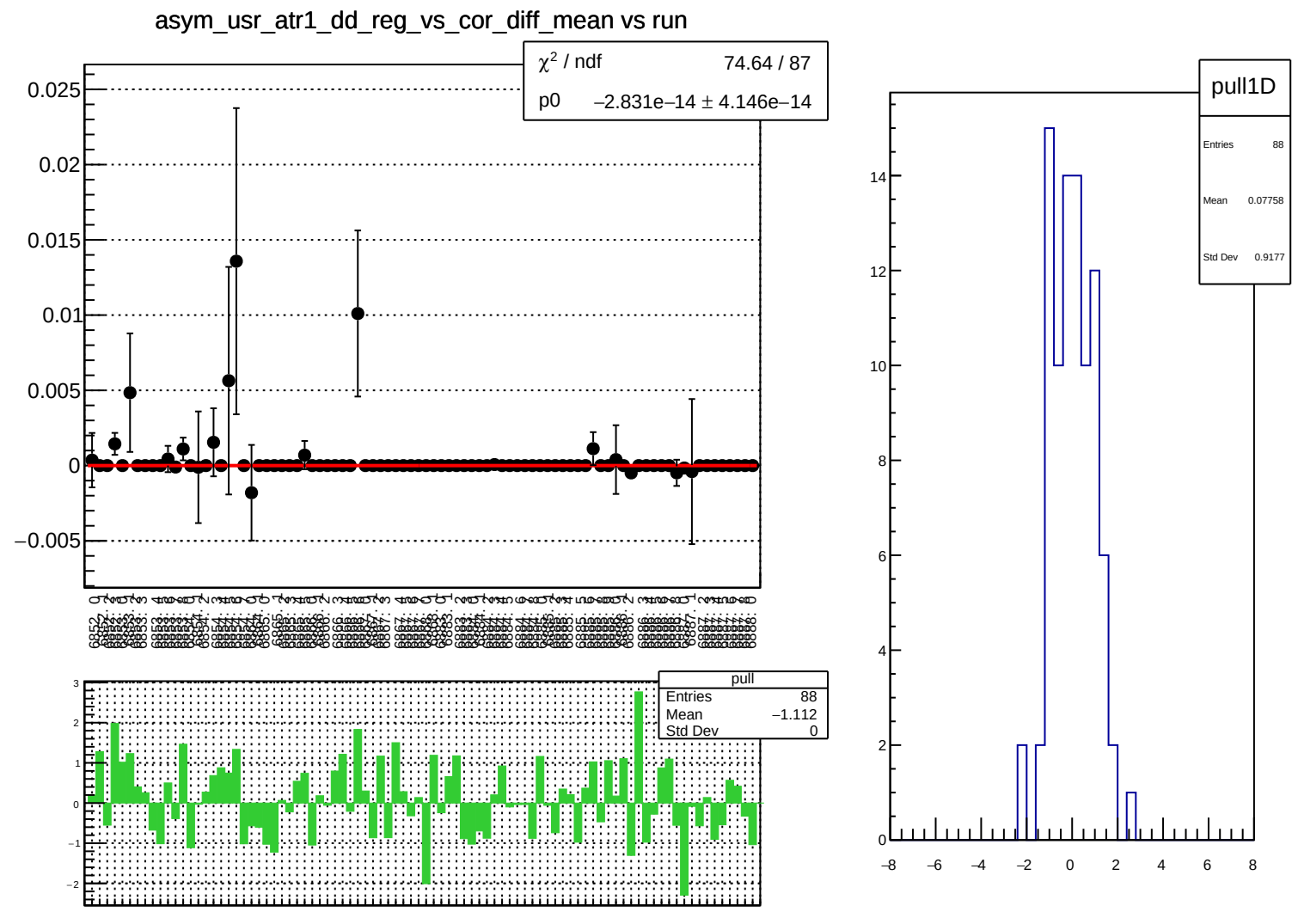

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 65.74 / 87
p0 1541 ± 848.6
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 435
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.006274
Std Dev 0.8643
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

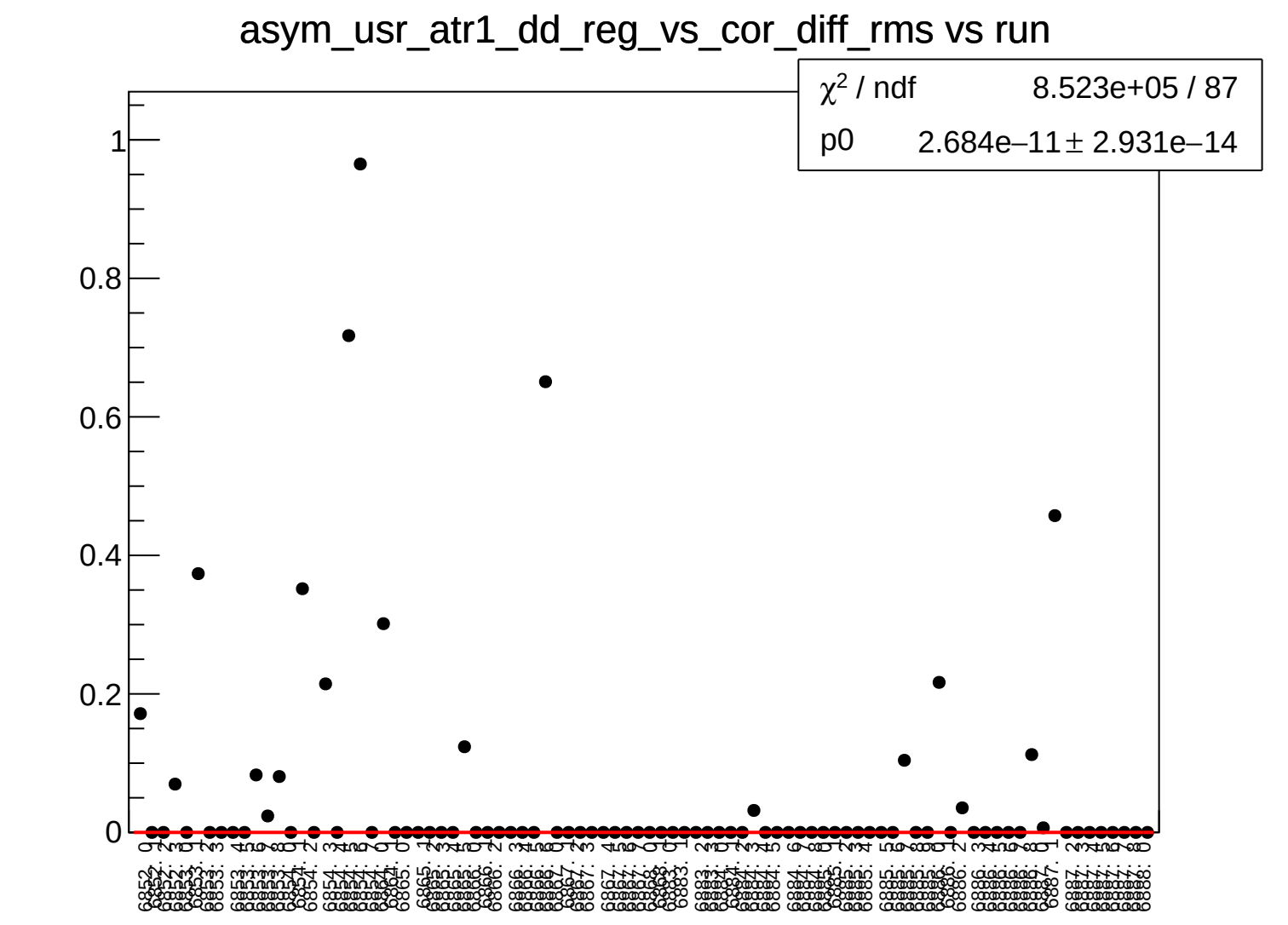

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.75e+04 / 87
p0 773.9 ± 0.6001
950
900
850
800
750
700
650
600

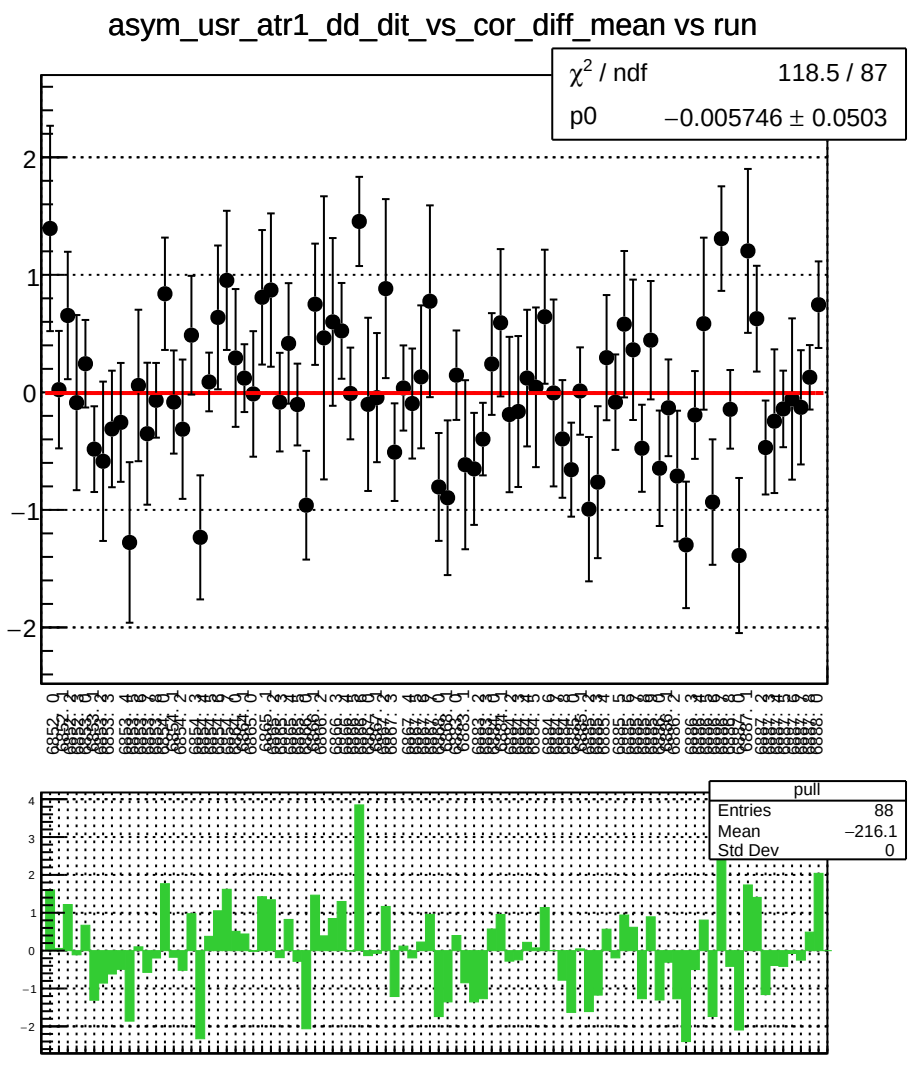

asym_usr_atr1_dd_mean vs run
χ² / ndf 85.6 / 87
p0 −123.6 ± 1668
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 298.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

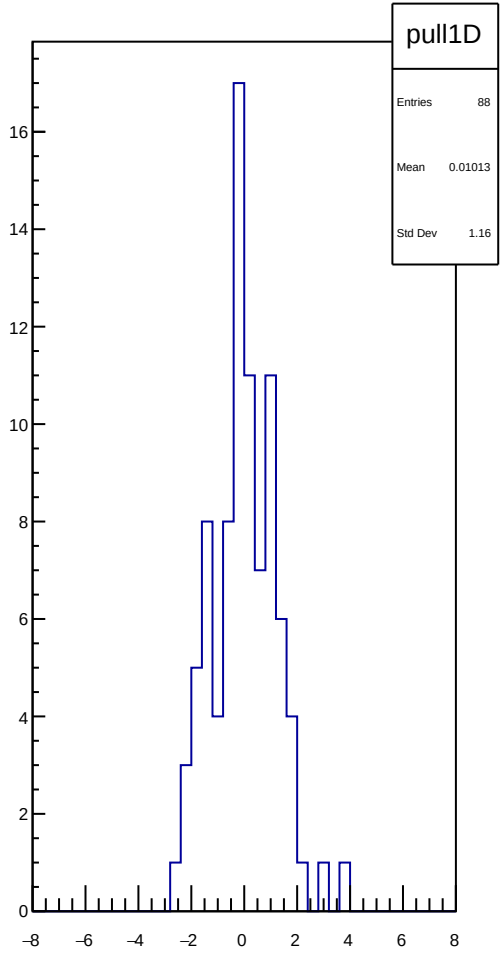

pull1D
Entries 88
Mean 0.01001
Std Dev 0.9862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

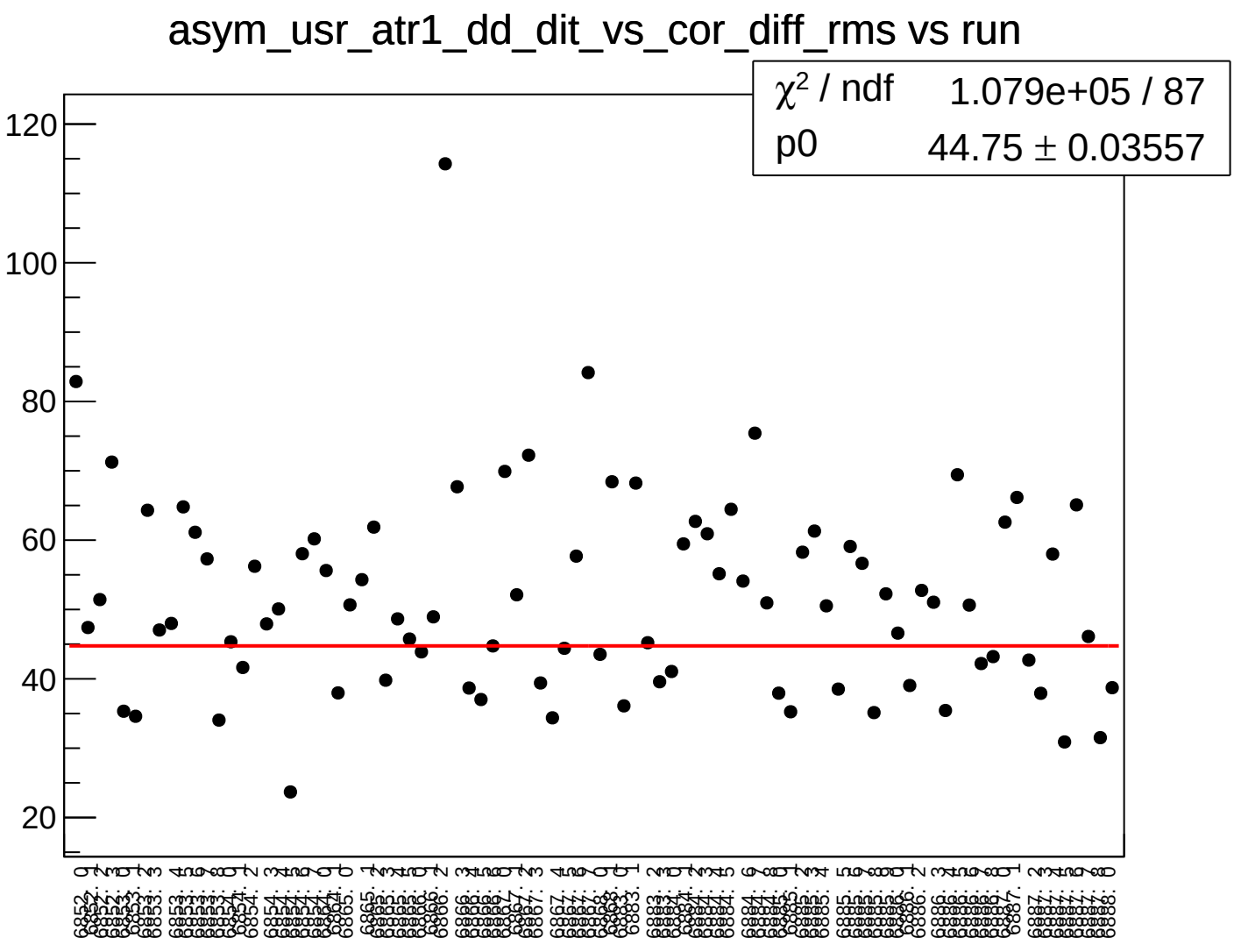

asym_usr_atr1_dd_rms vs run
χ² / ndf 1711 / 87
p0 1533 ± 1.179
1650
1600
1550
1500
1450
1400

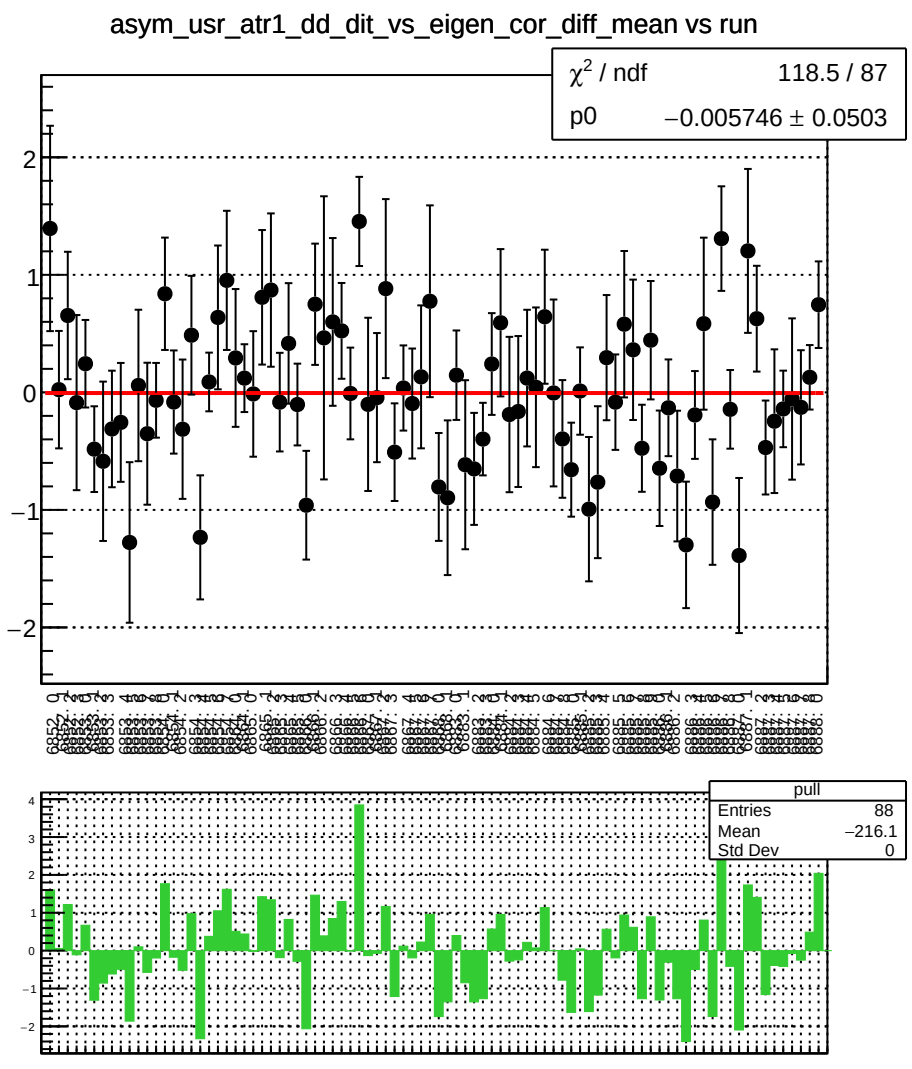

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.64 / 87
p0 −2.831e−14 ± 4.146e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
pull
Entries 88
Mean −1.112
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.07758
Std Dev 0.9177
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

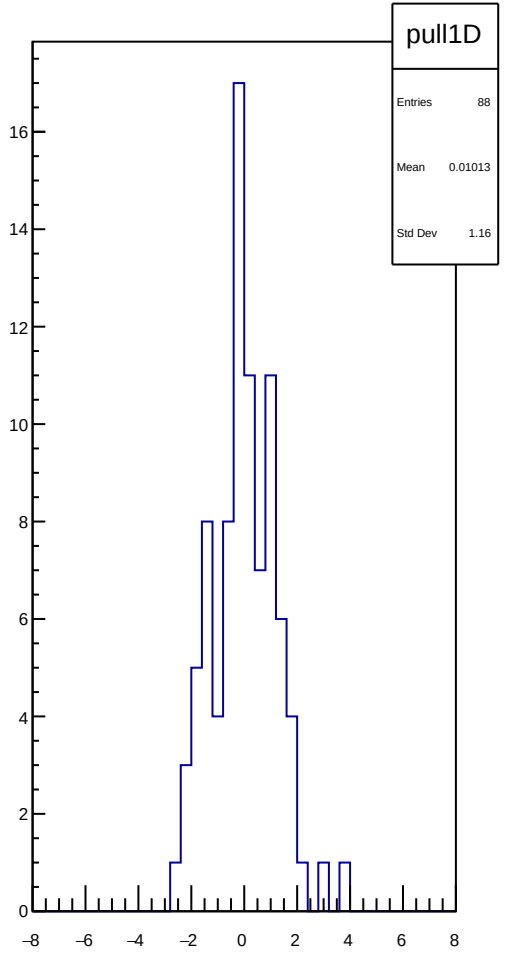

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.523e+05 / 87
p0 2.684e−11 ± 2.931e−14
1
0.8
0.6
0.4
0.2
0

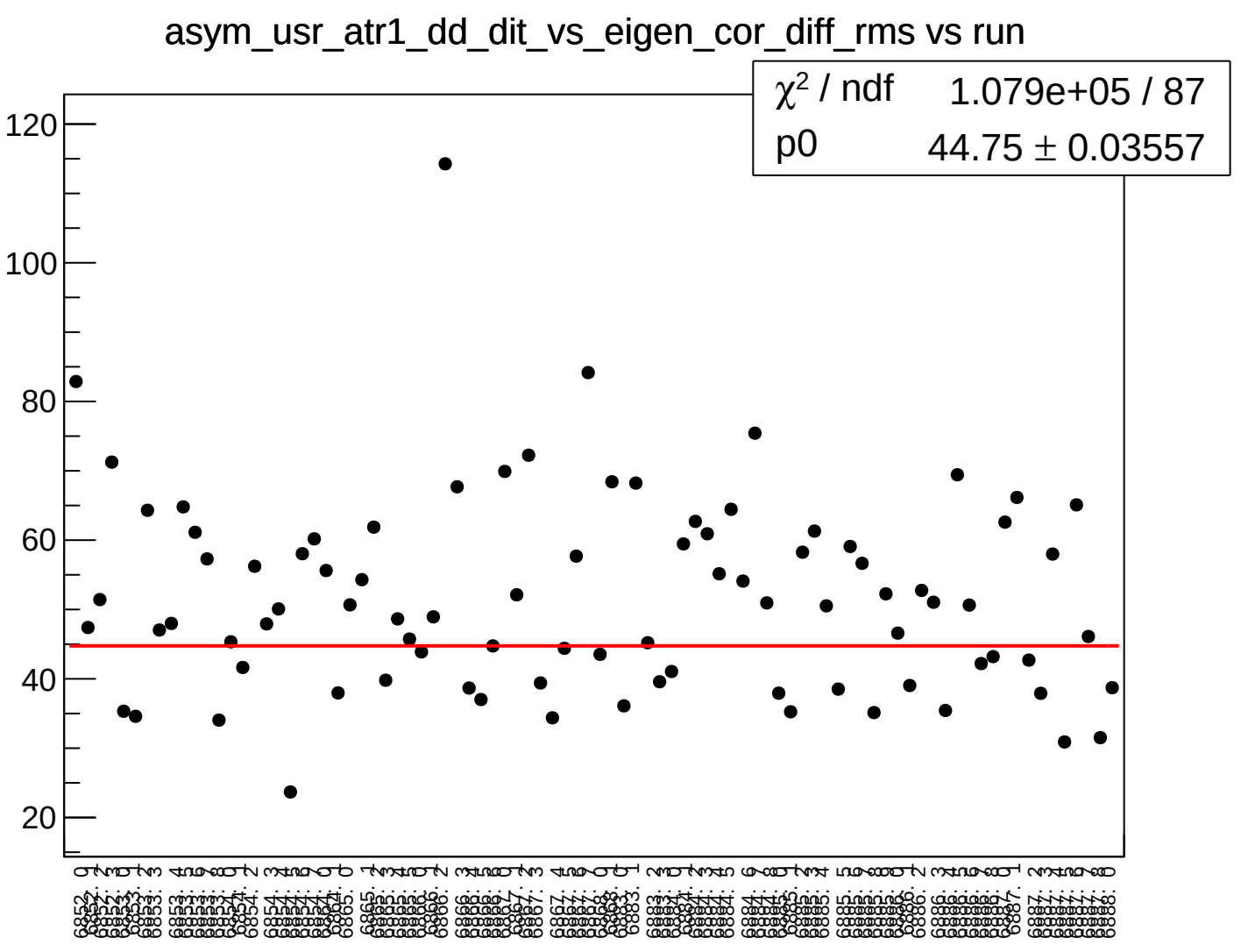

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 118.5 / 87
p0 −0.005746 ± 0.0503
pull
Entries 88
Mean −216.1
Std Dev 0

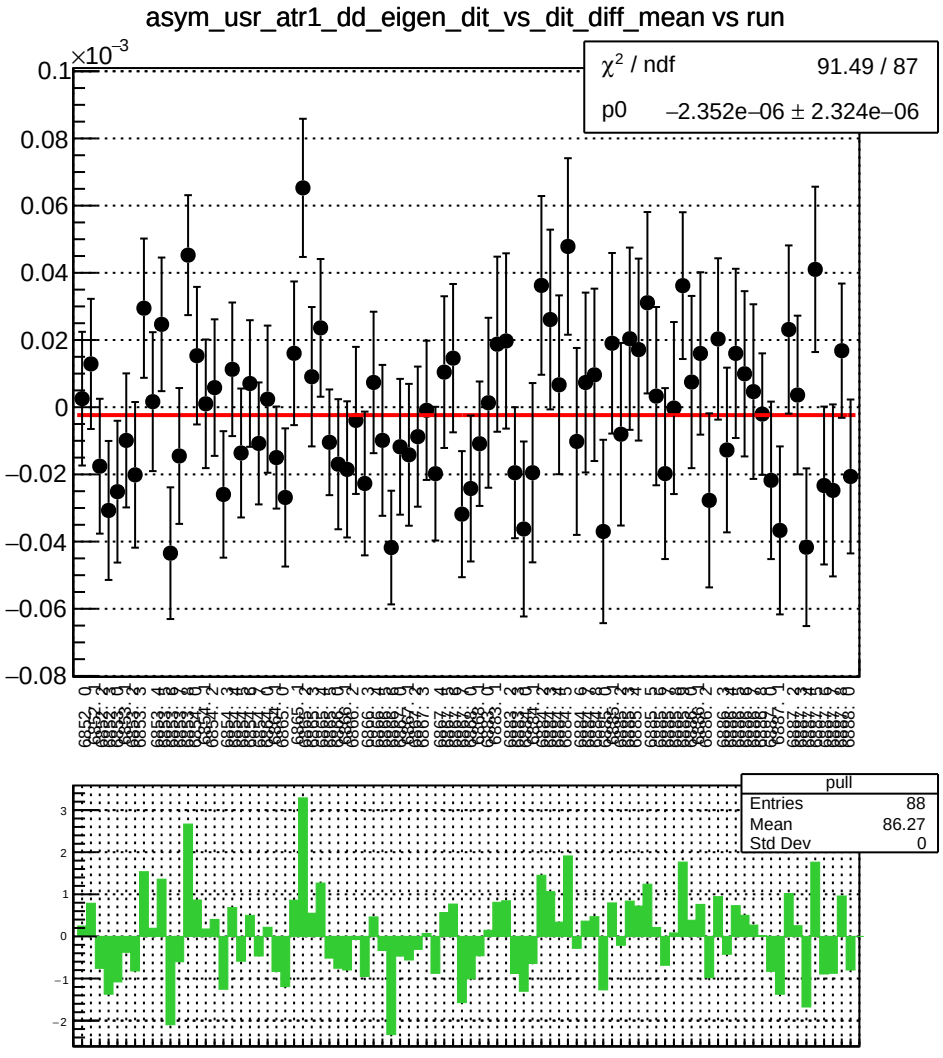

pull1D
Entries 88
Mean 0.01013
Std Dev 1.16

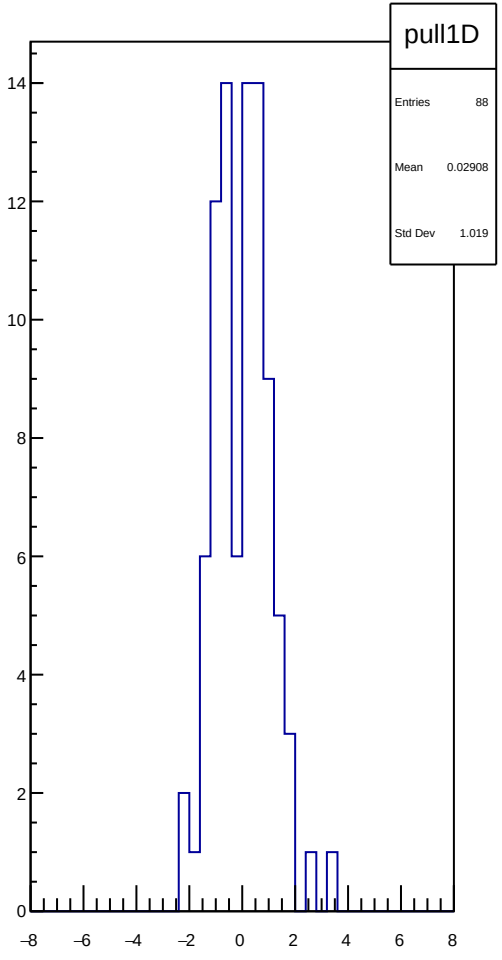

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.079e+05 / 87
p0 44.75 ± 0.03557
120
100
80
60
40
20

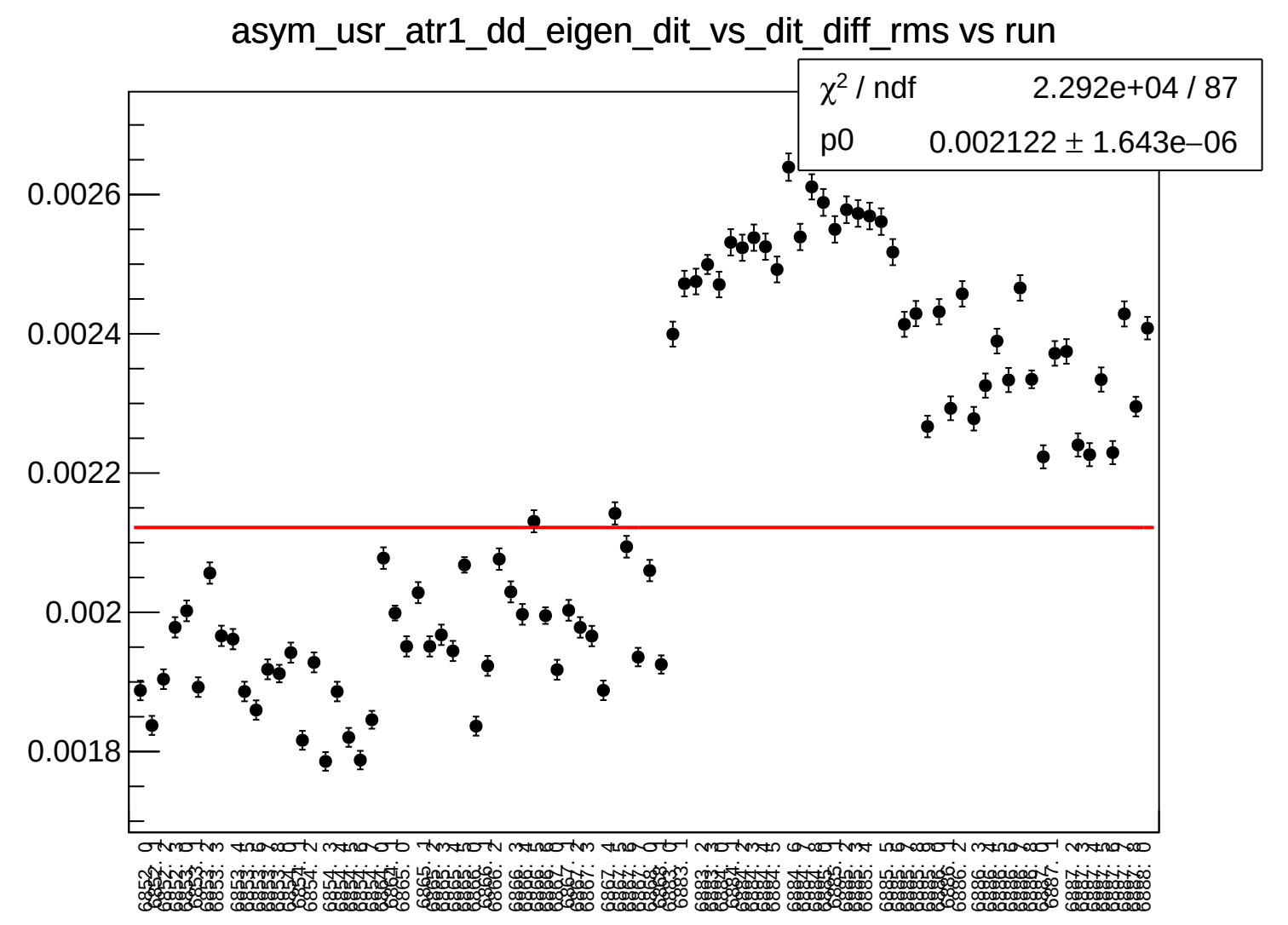

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.5 / 87
p0 −0.005746 ± 0.0503
pull
Entries 88
Mean −216.1
Std Dev 0

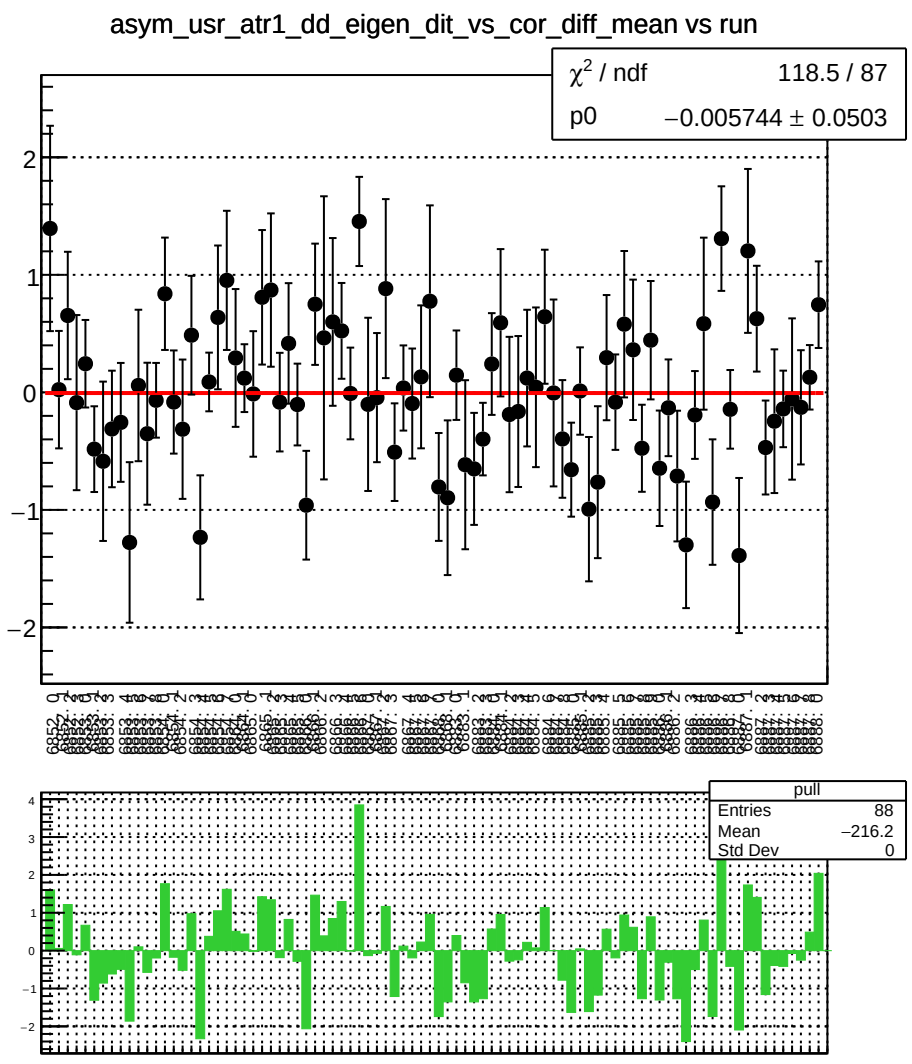

pull1D
Entries 88
Mean 0.01013
Std Dev 1.16

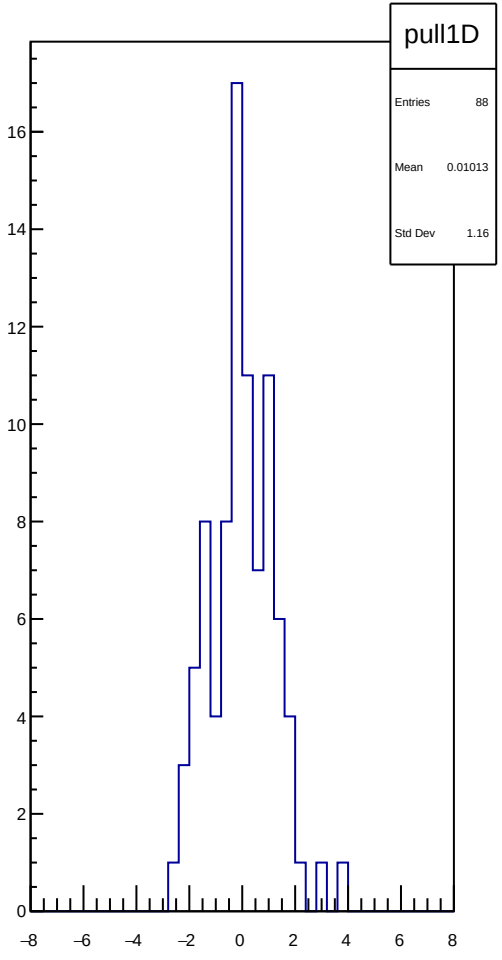

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.079e+05 / 87
p0 44.75 ± 0.03557
120
100
80
60
40
20

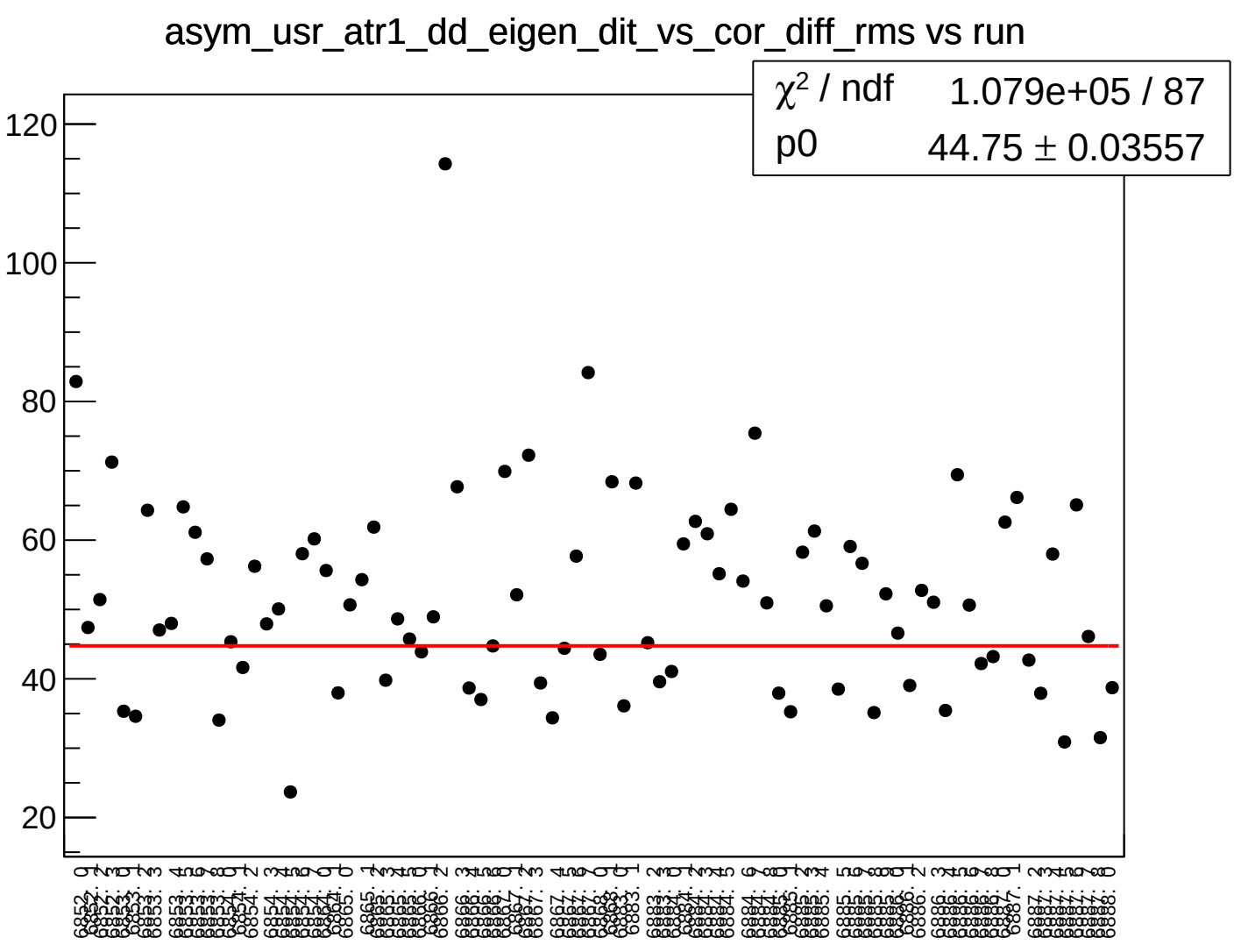

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.49 / 87
p0 −2.352e−06 ± 2.324e−06
pull
Entries 88
Mean 86.27
Std Dev 0

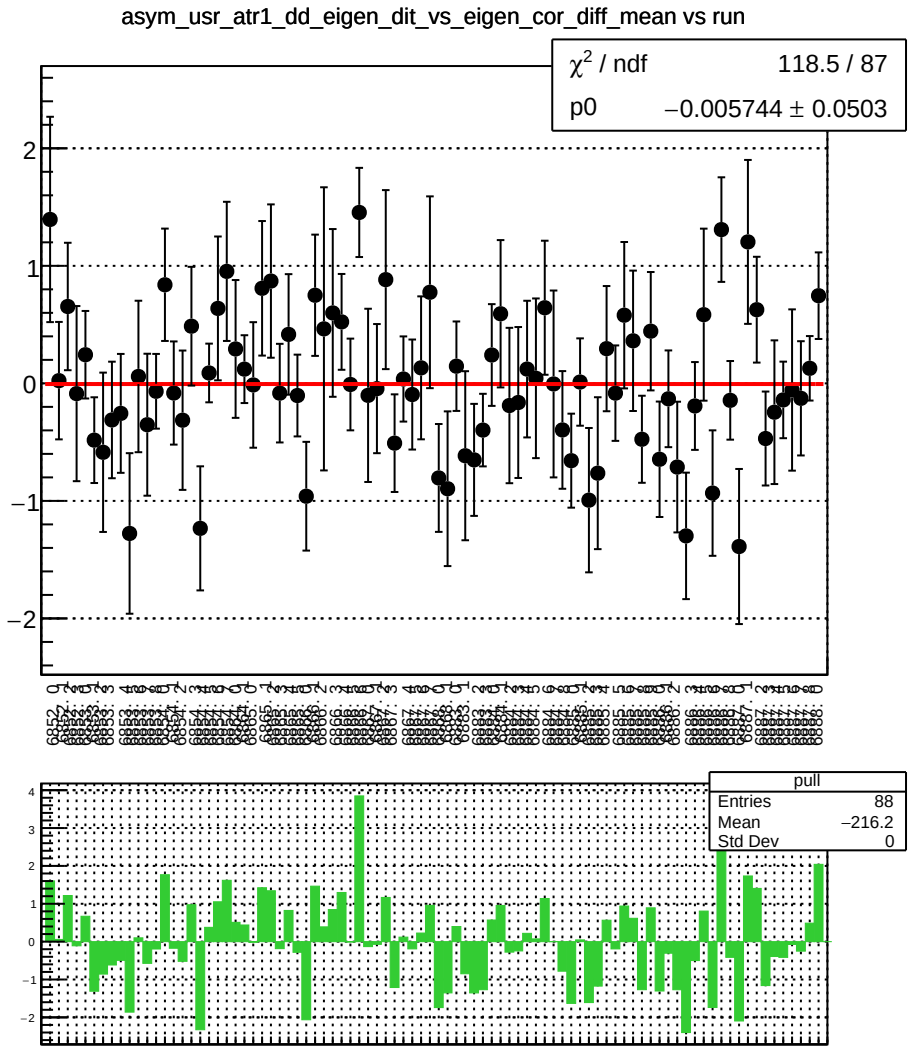

pull1D
Entries 88
Mean 0.02908
Std Dev 1.019

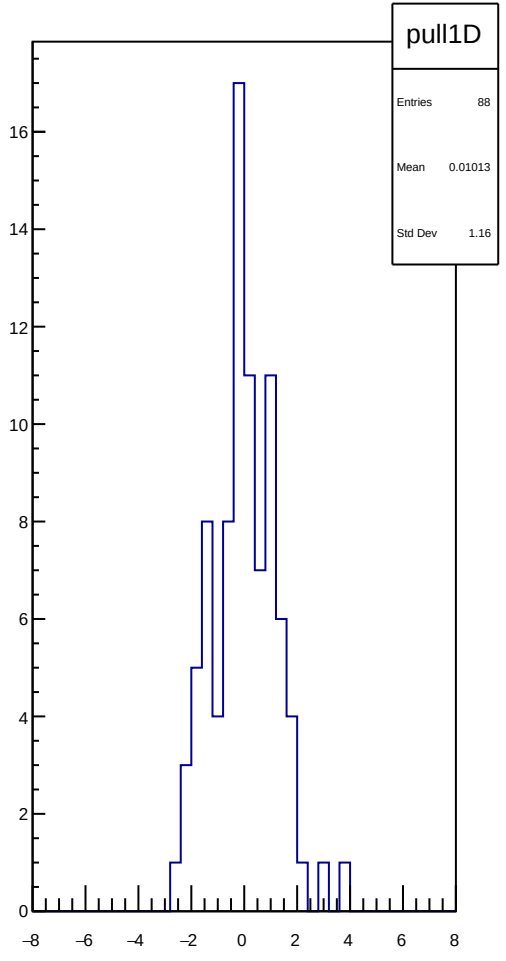

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.292e+04 / 87
p0 0.002122 ± 1.643e−06
0.0026
0.0024
0.0022
0.002
0.0018

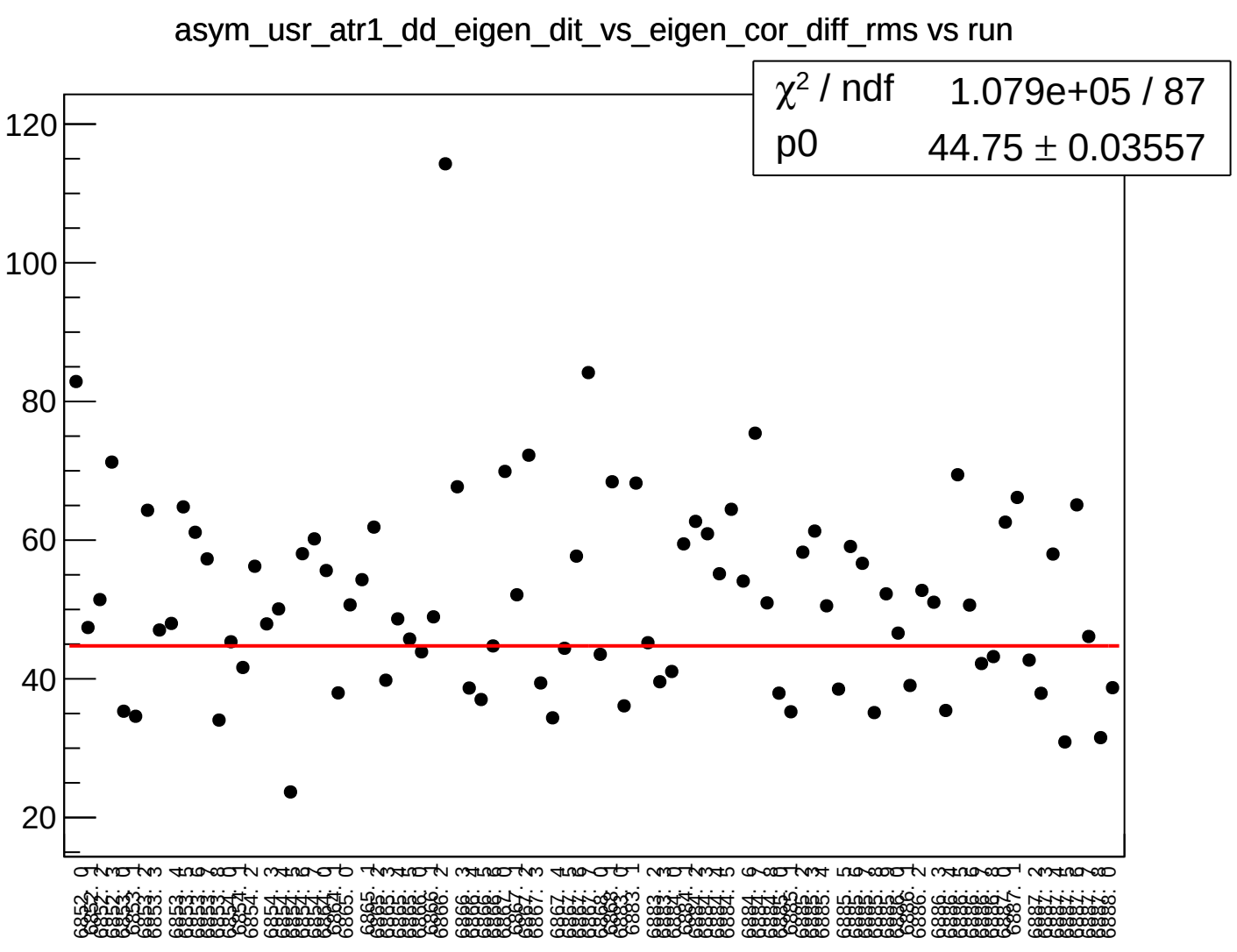

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.5 / 87
p0 −0.005744 ± 0.0503
pull
Entries 88
Mean −216.2
Std Dev 0

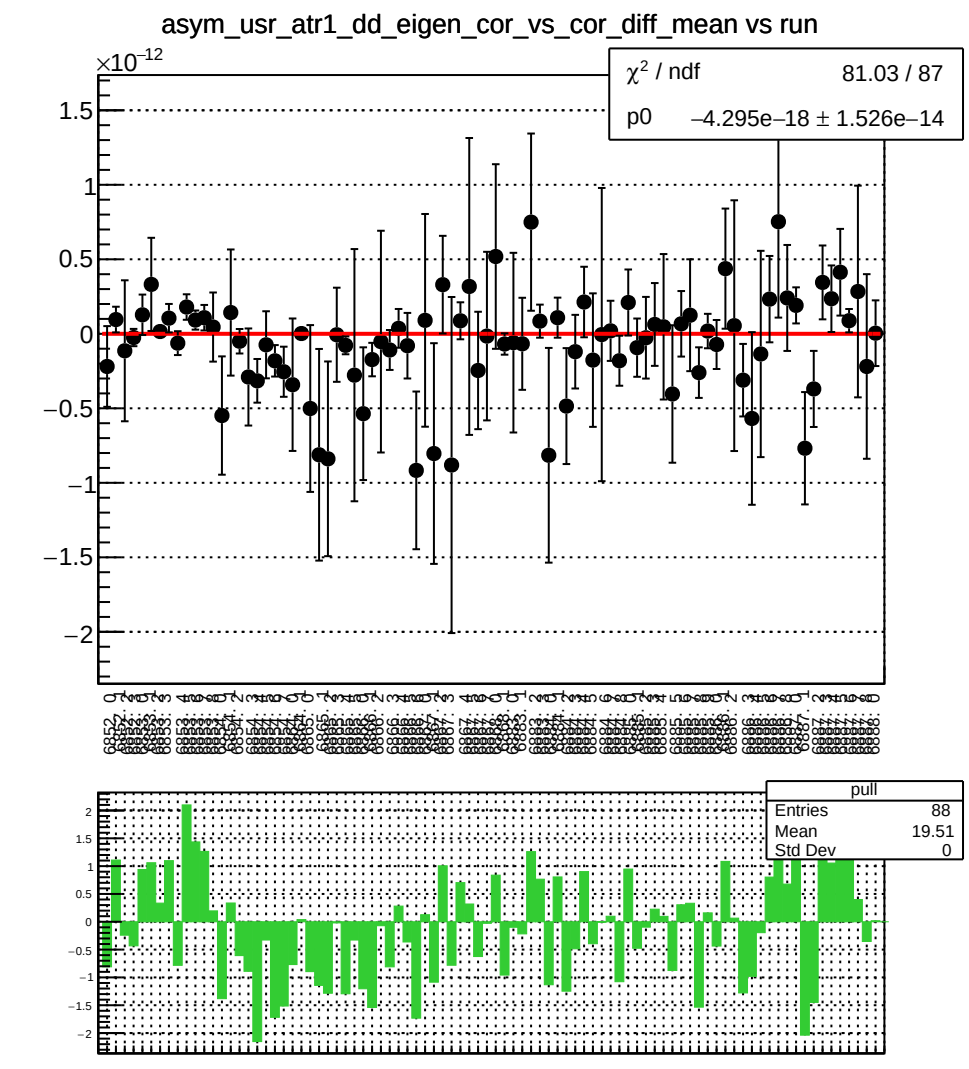

pull1D
Entries 88
Mean 0.01013
Std Dev 1.16

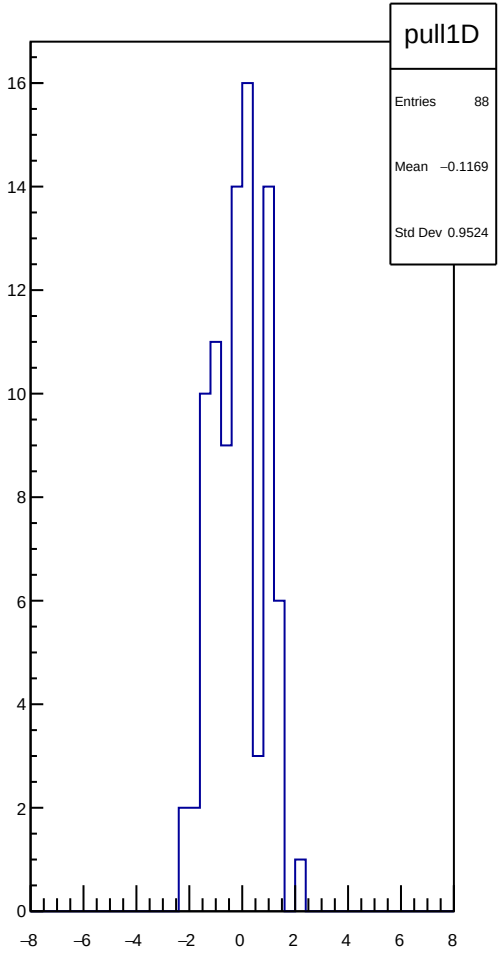

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.079e+05 / 87
p0 44.75 ± 0.03557
120
100
80
60
40
20

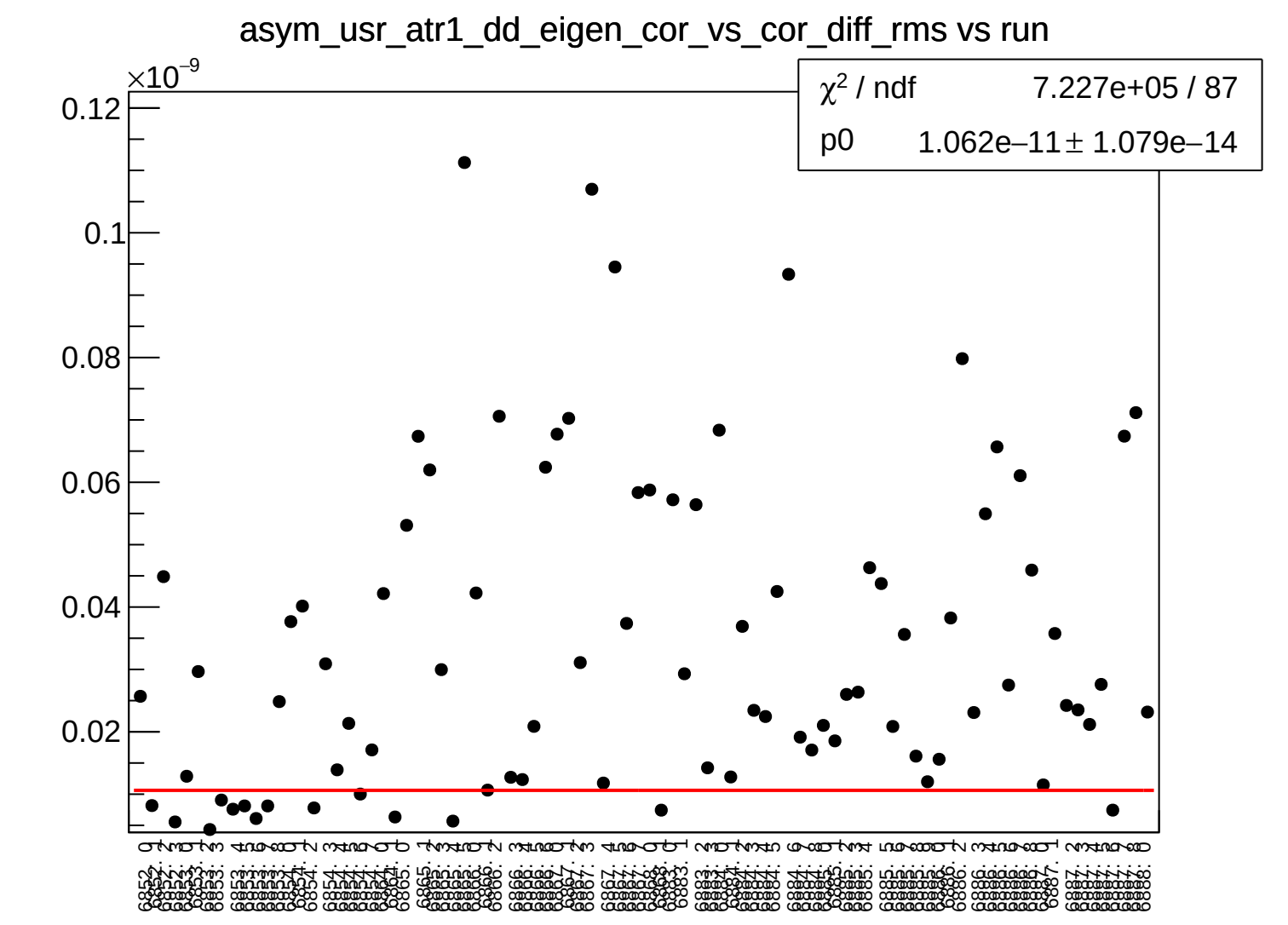

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.5 / 87
p0 −0.005744 ± 0.0503
pull
Entries 88
Mean −216.2
Std Dev 0

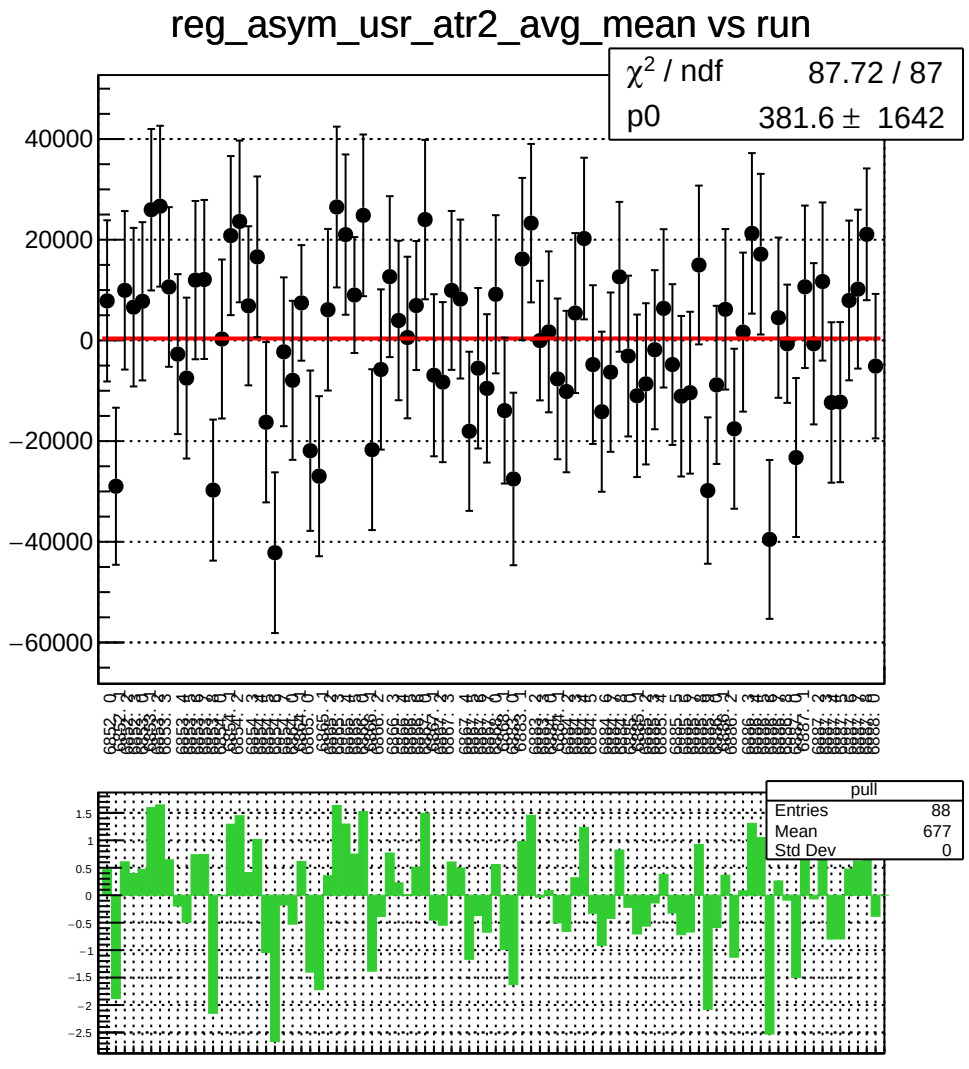

pull1D
Entries 88
Mean 0.01013
Std Dev 1.16

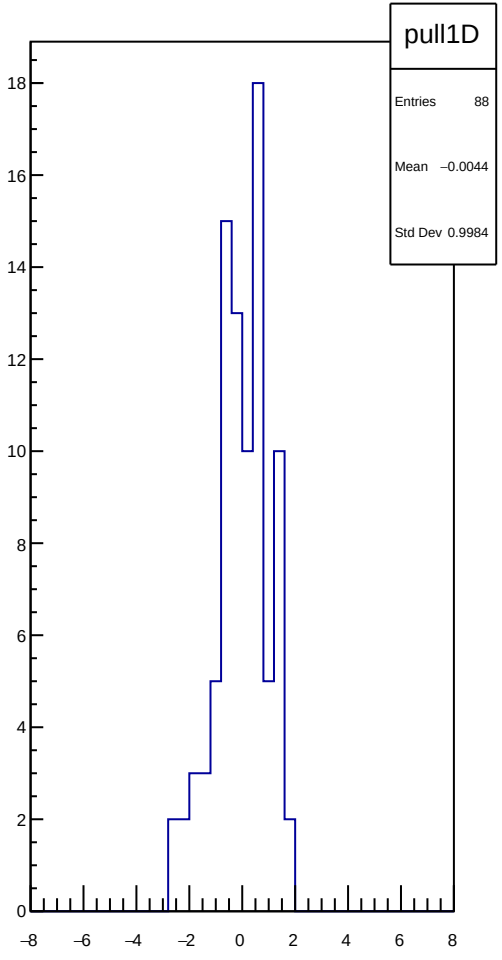

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.079e+05 / 87
p0 44.75 ± 0.03557
120
100
80
60
40
20

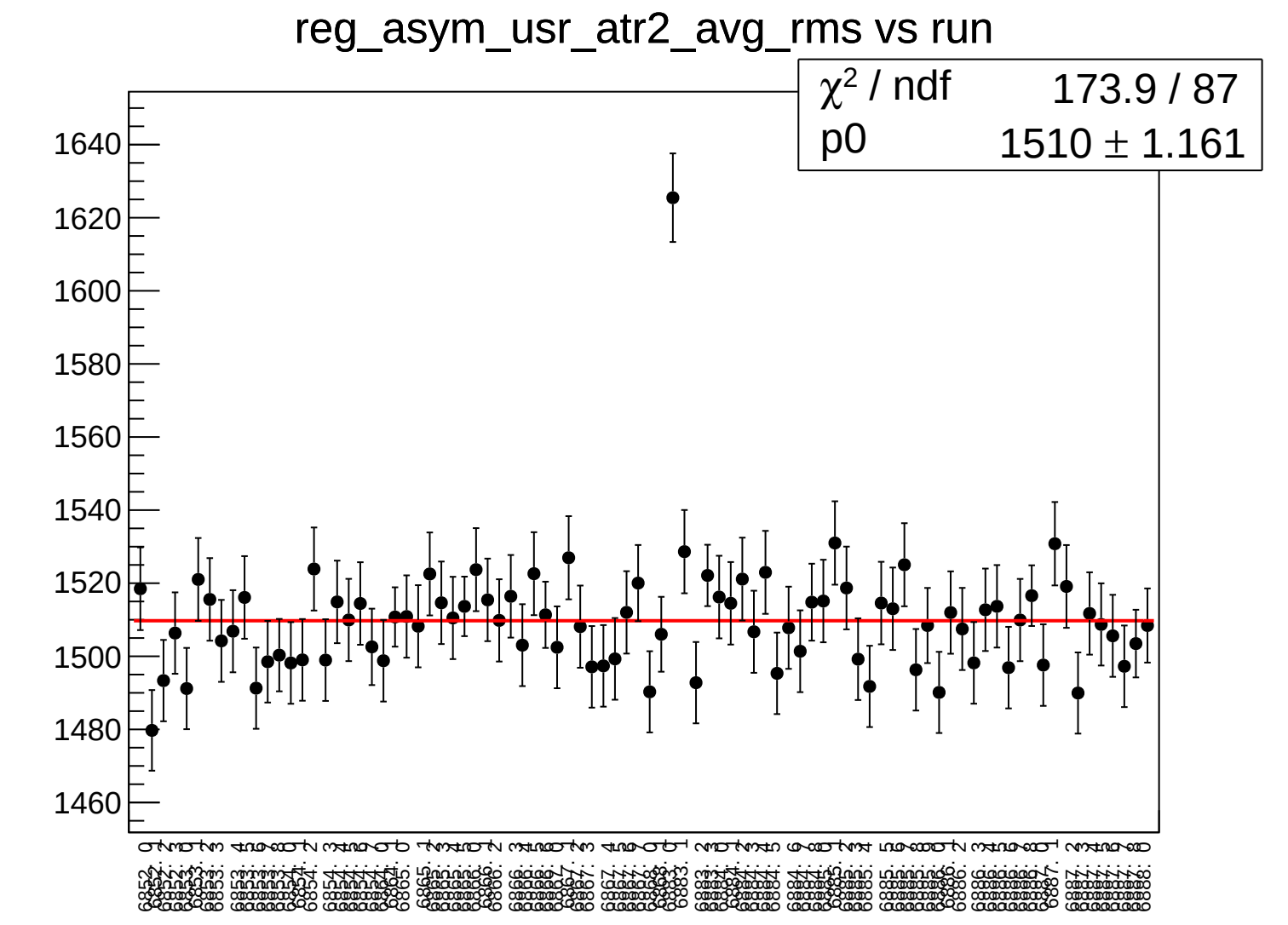

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.03 / 87
p0 −4.295e−18 ± 1.526e−14
pull
Entries 88
Mean 19.51
Std Dev 0

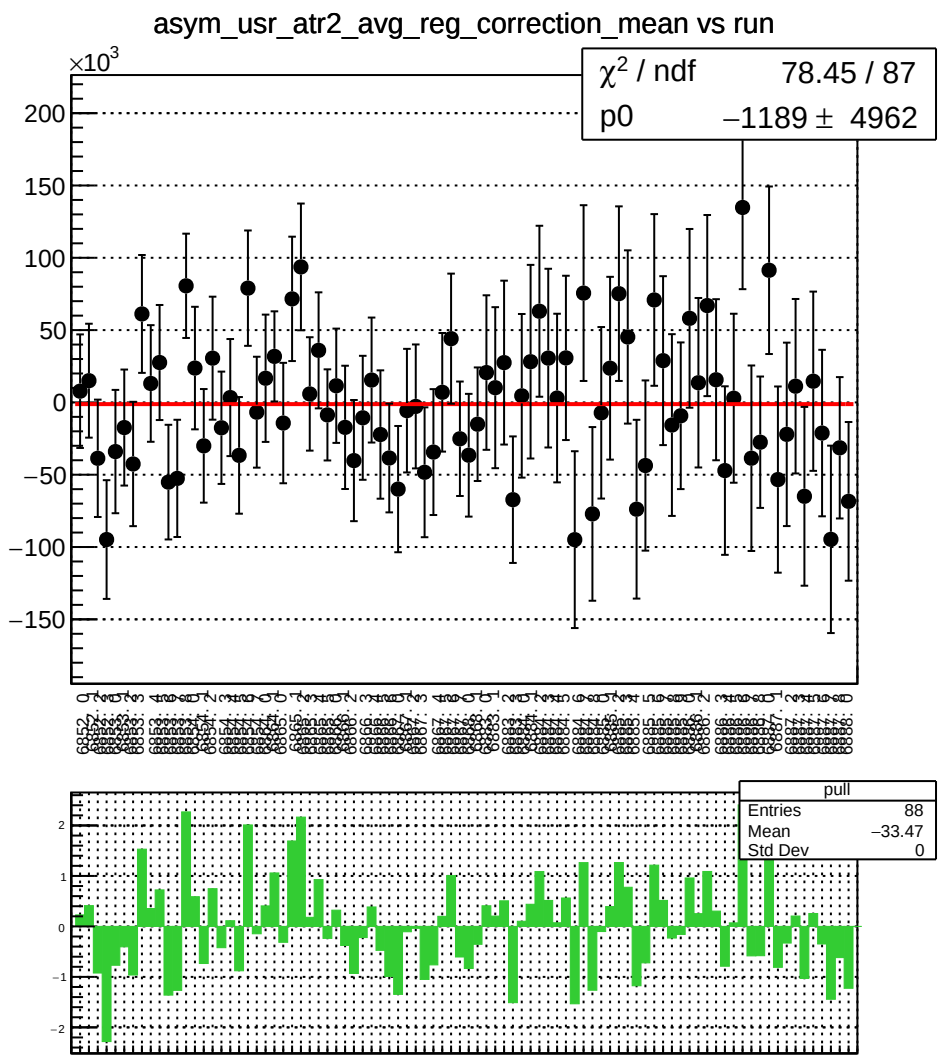

pull1D
Entries 88
Mean −0.1169
Std Dev 0.9524

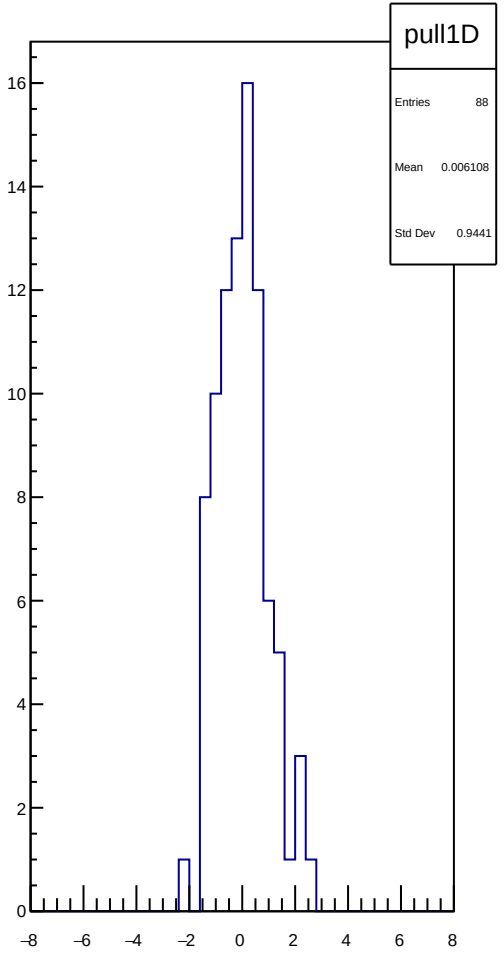

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.227e+05 / 87
p0 1.062e−11 ± 1.079e−14
0.12
0.1
0.08
0.06
0.04
0.02

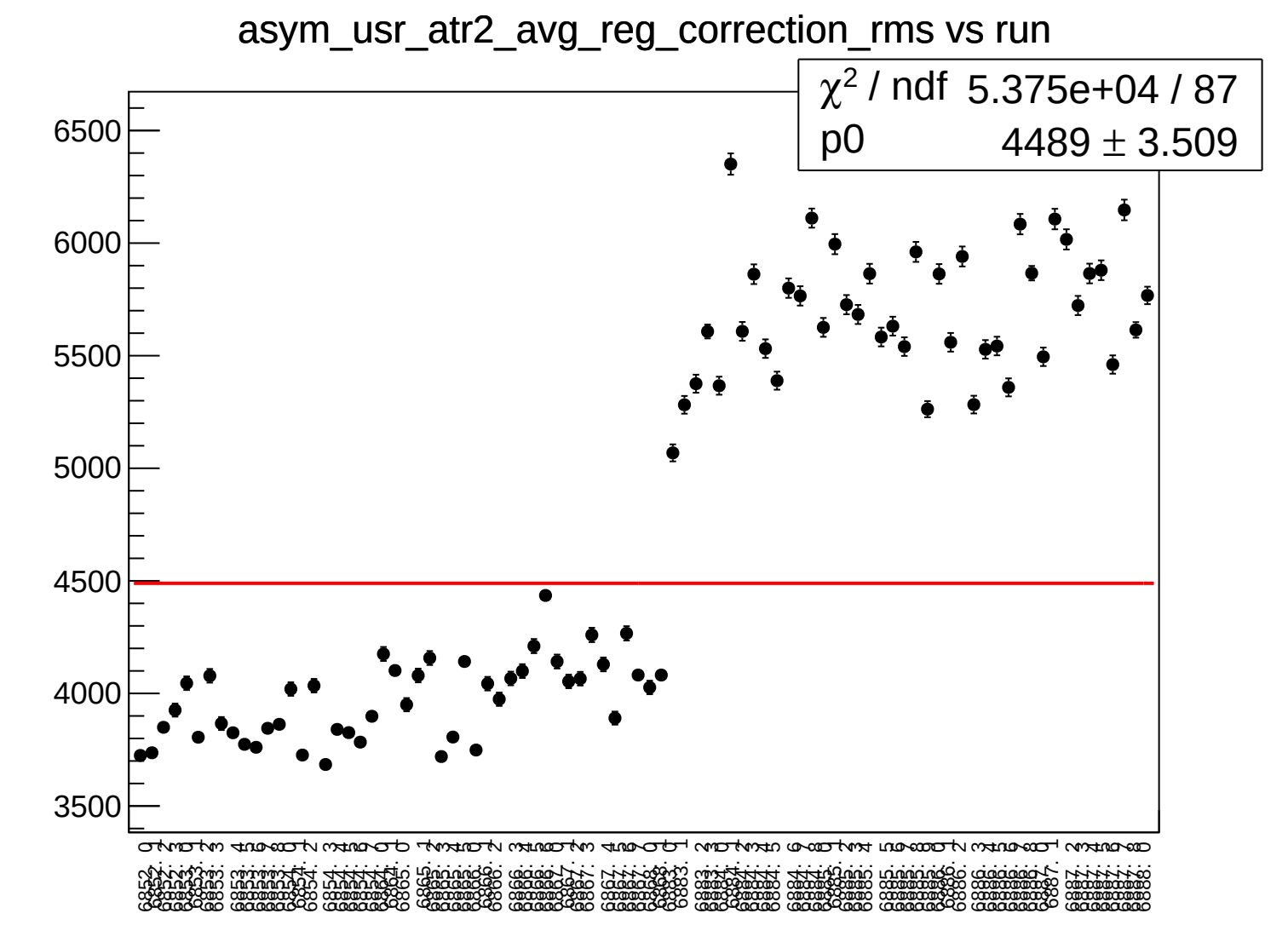

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 87.72 / 87
p0 381.6 ± 1642
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 677
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

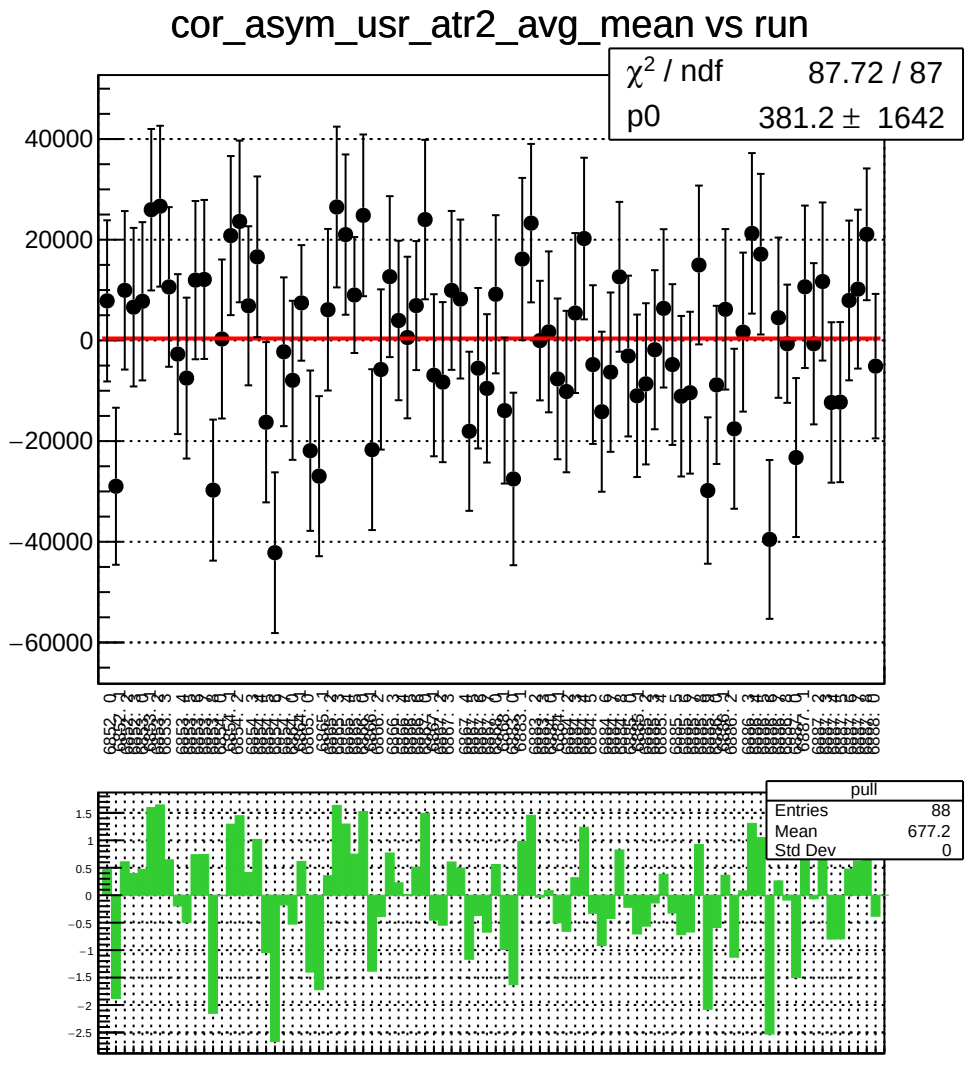

pull1D
Entries 88
Mean −0.0044
Std Dev 0.9984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

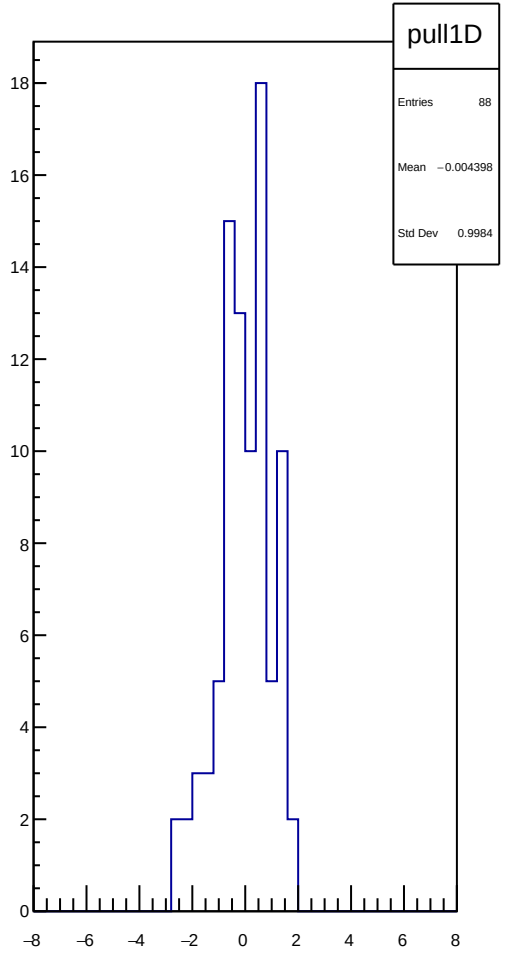

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 173.9 / 87
p0 1510 ± 1.161
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460

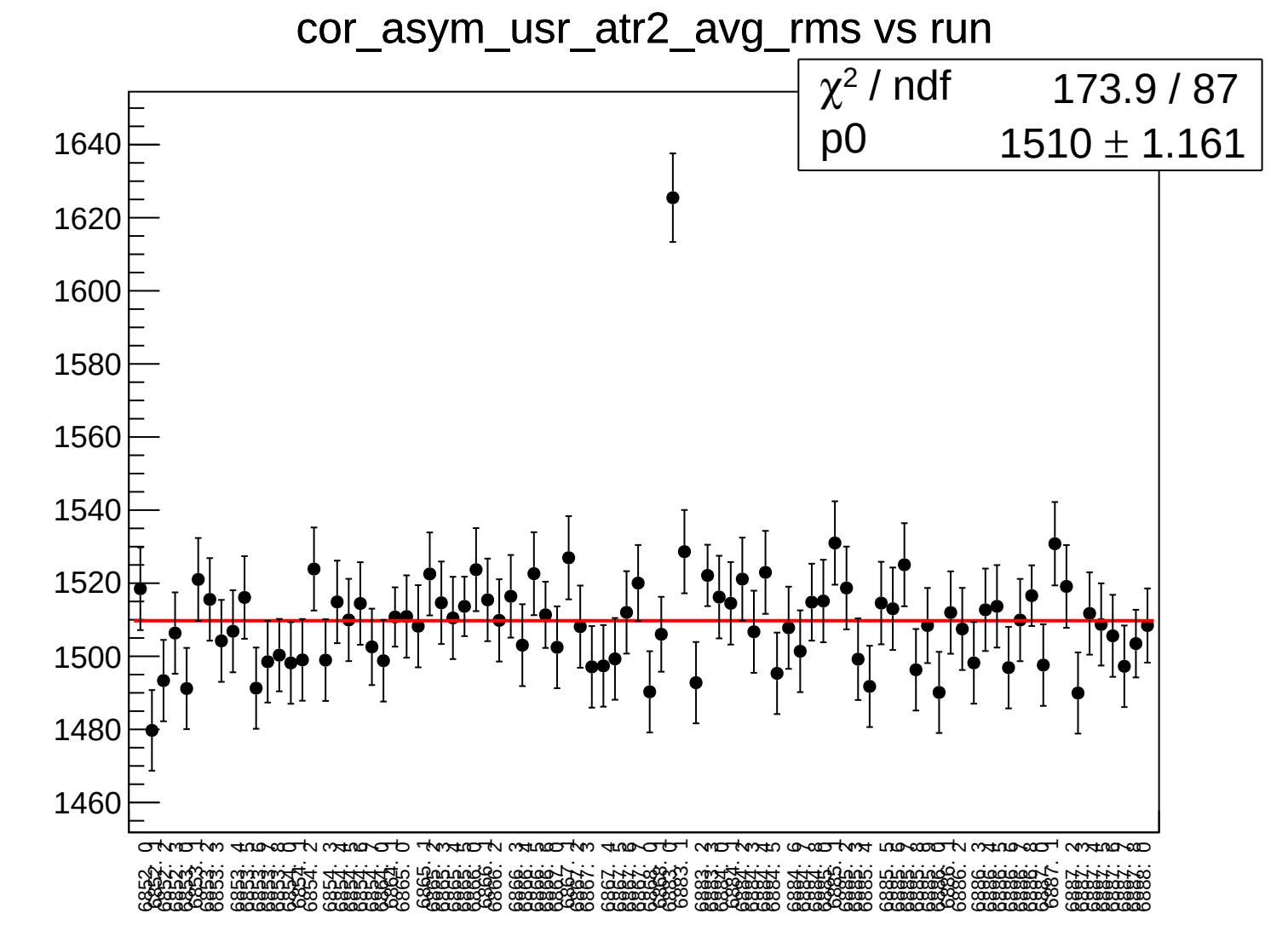

asym_usr_atr2_avg_reg_correction_mean vs run
χ² / ndf 78.45 / 87
p0 −1189 ± 4962
×10³
pull
Entries 88
Mean −33.47
Std Dev 0

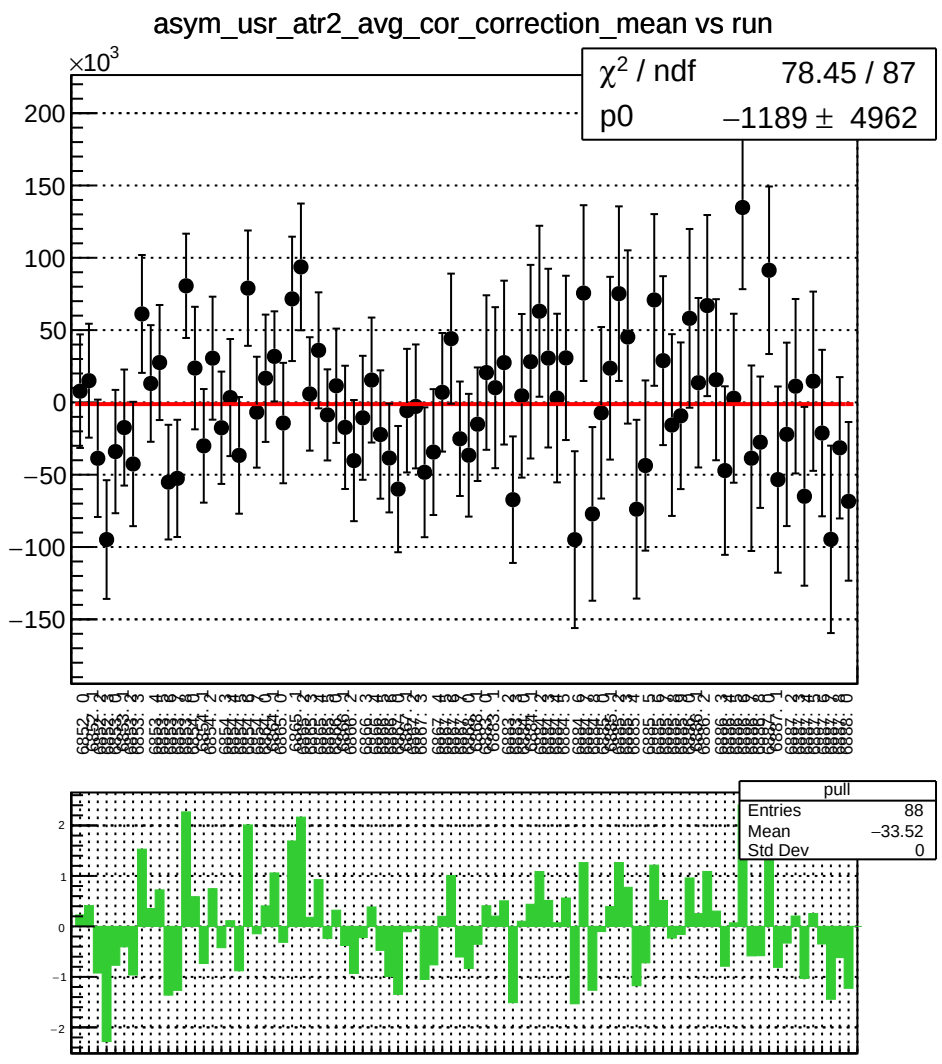

pull1D
Entries 88
Mean 0.006108
Std Dev 0.9441

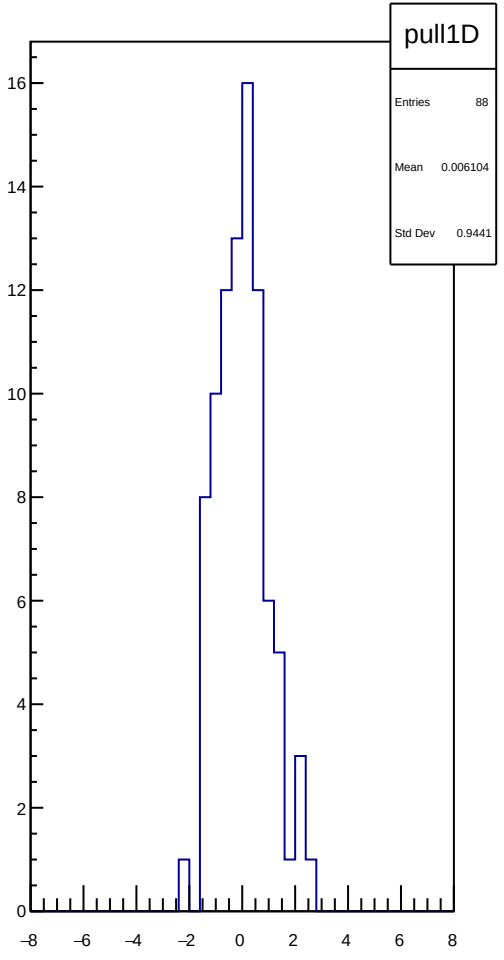

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 5.375e+04 / 87
p0 4489 ± 3.509
6500
6000
5500
5000
4500
4000
3500

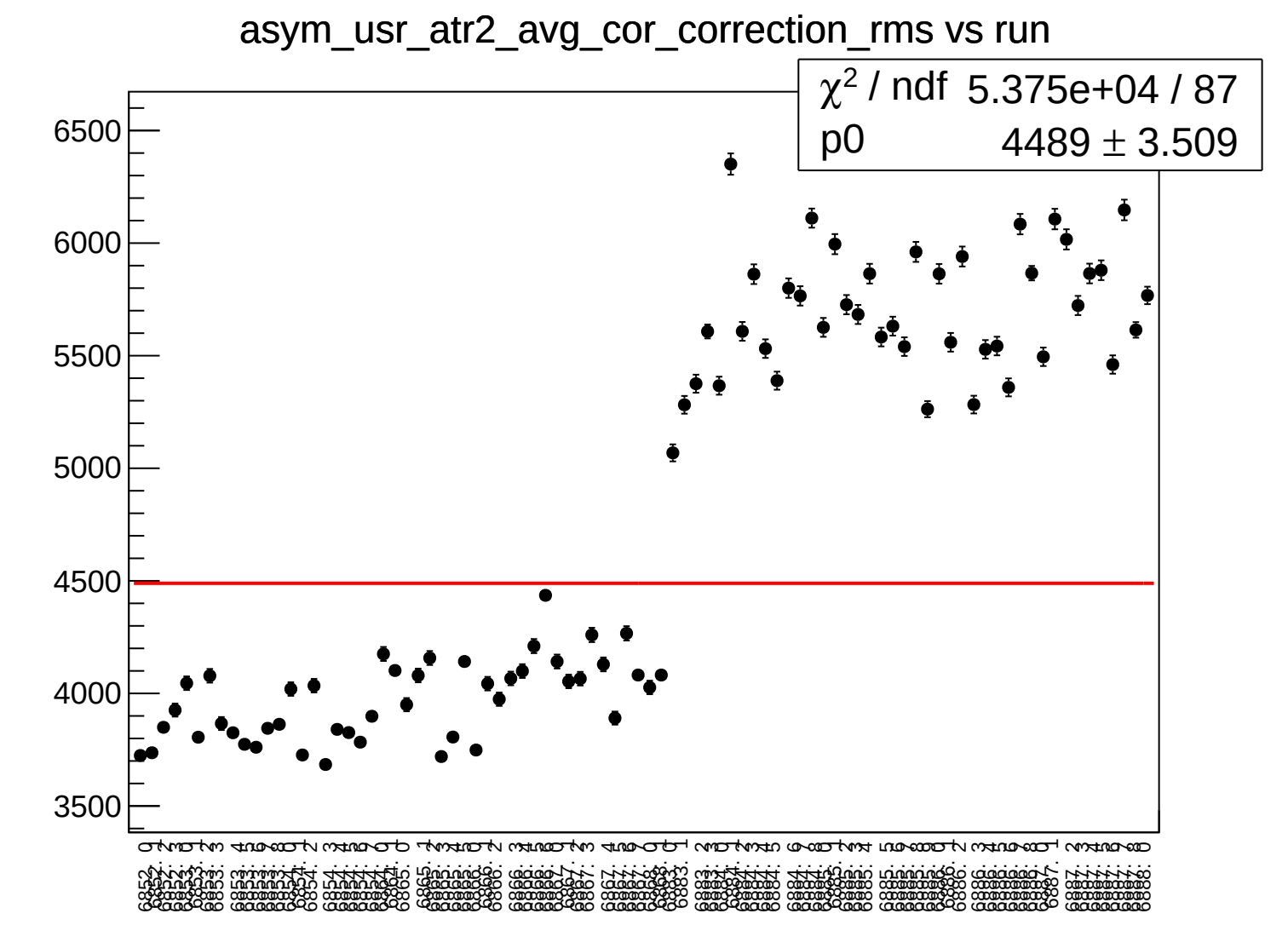

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 87.72 / 87
p0 381.2 ± 1642
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 677.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

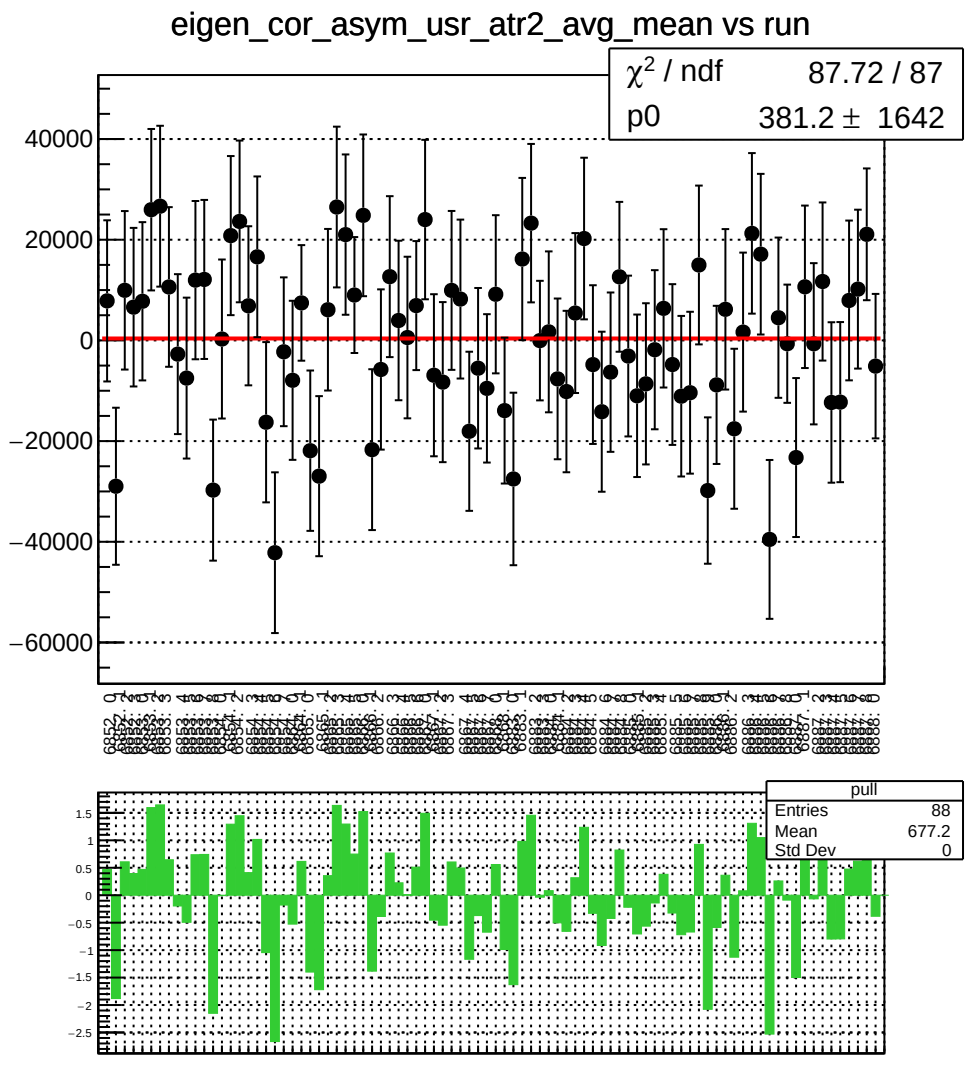

pull1D
Entries 88
Mean −0.004398
Std Dev 0.9984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

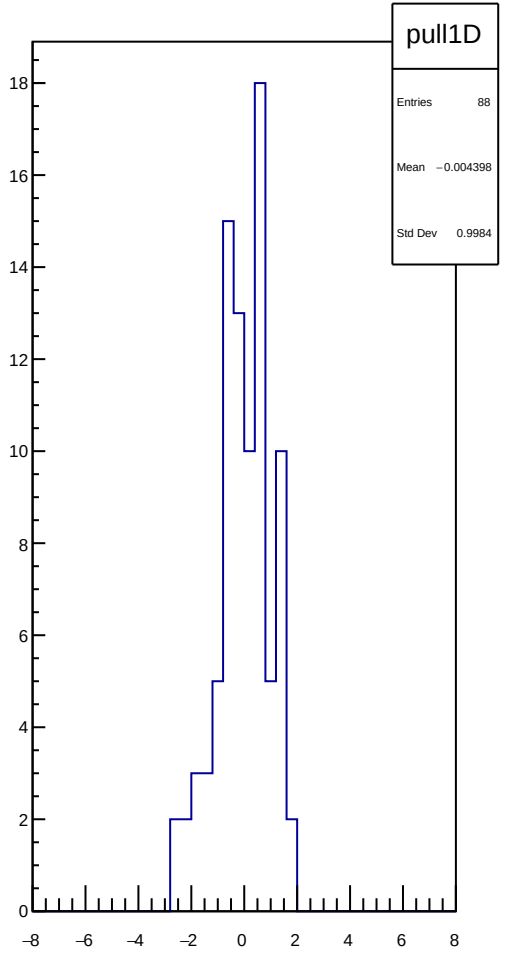

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 173.9 / 87
p0 1510 ± 1.161
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460

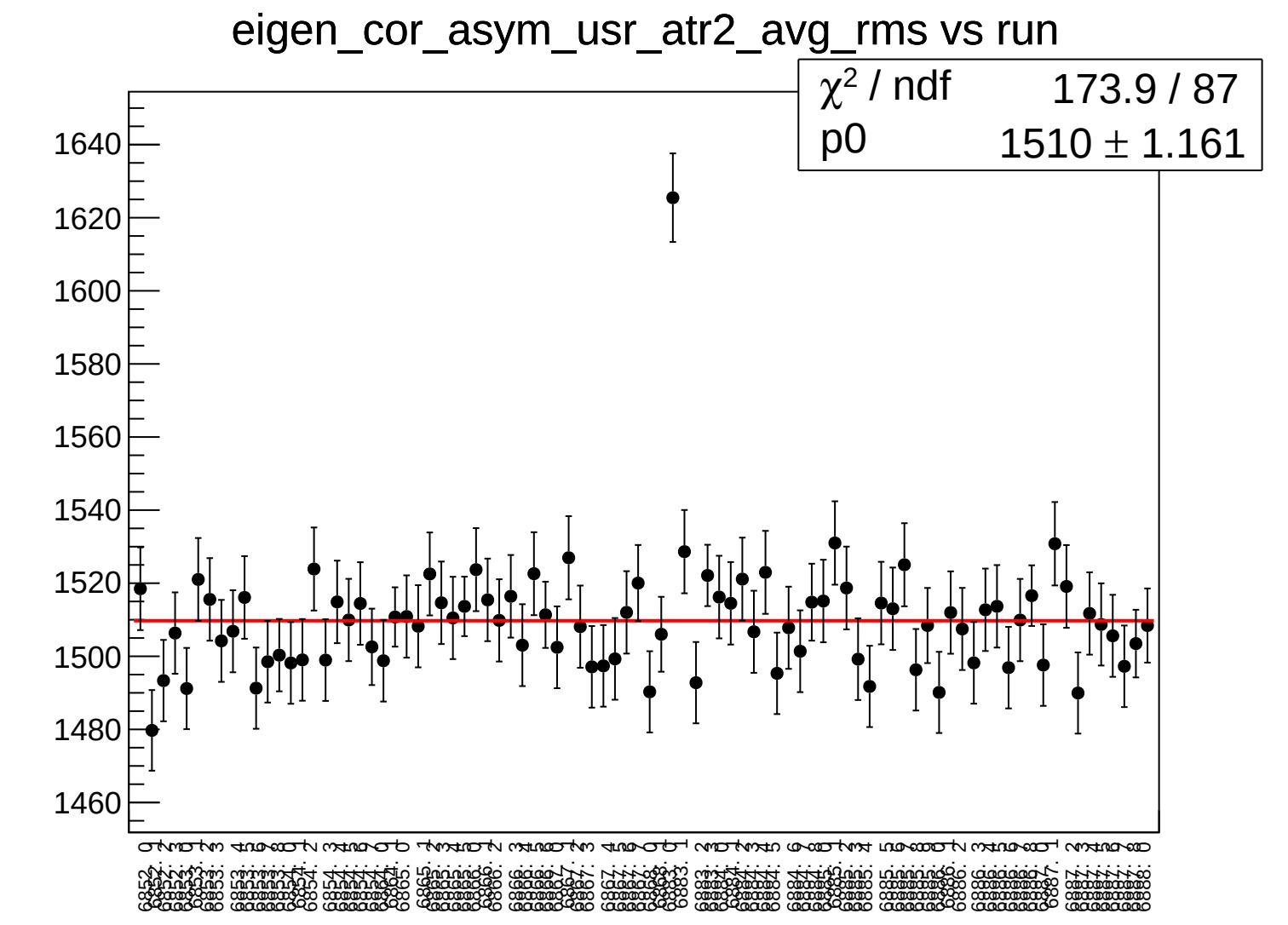

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 78.45 / 87
p0 −1189 ± 4962
pull
Entries 88
Mean −33.52
Std Dev 0

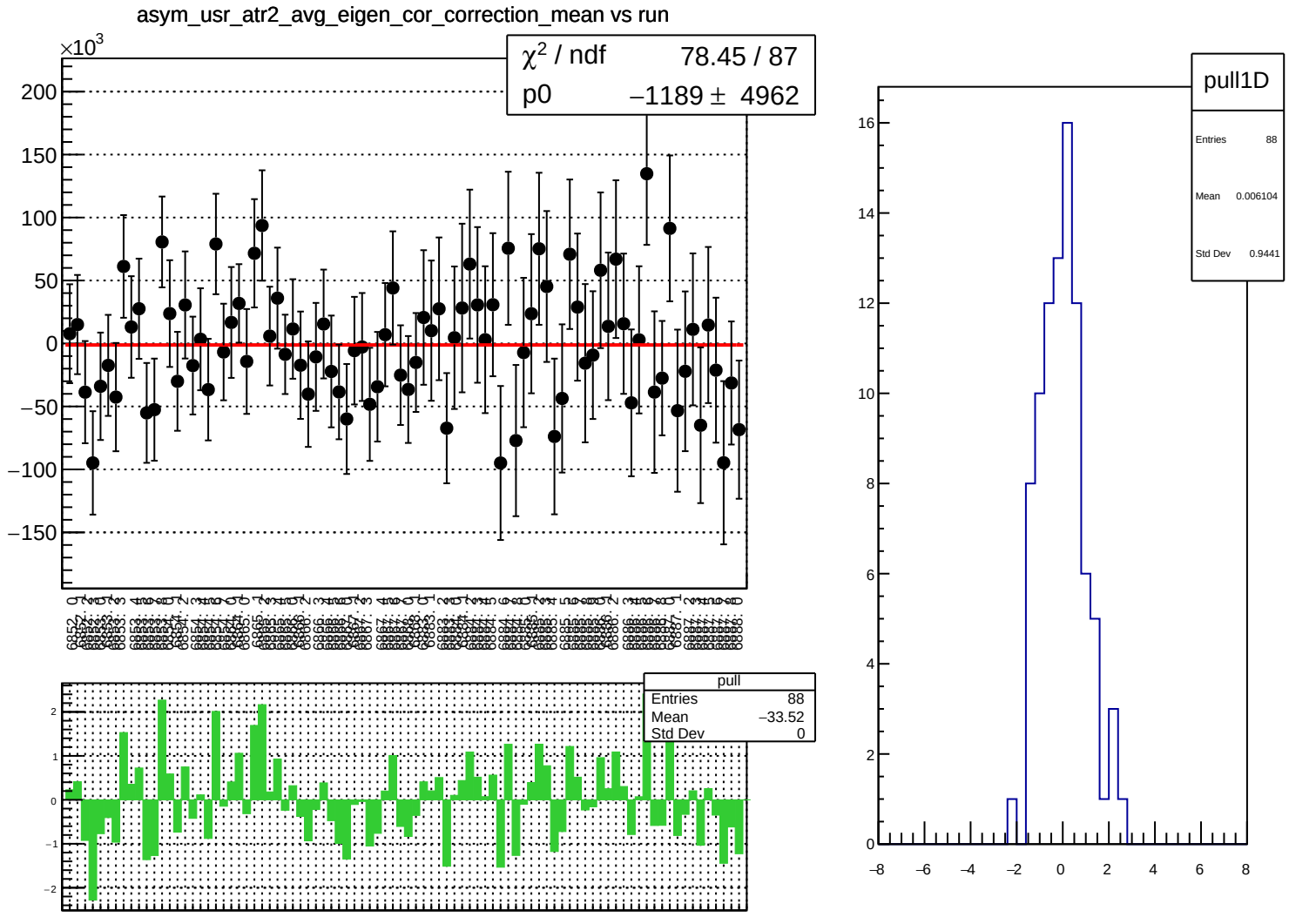

pull1D
Entries 88
Mean 0.006104
Std Dev 0.9441

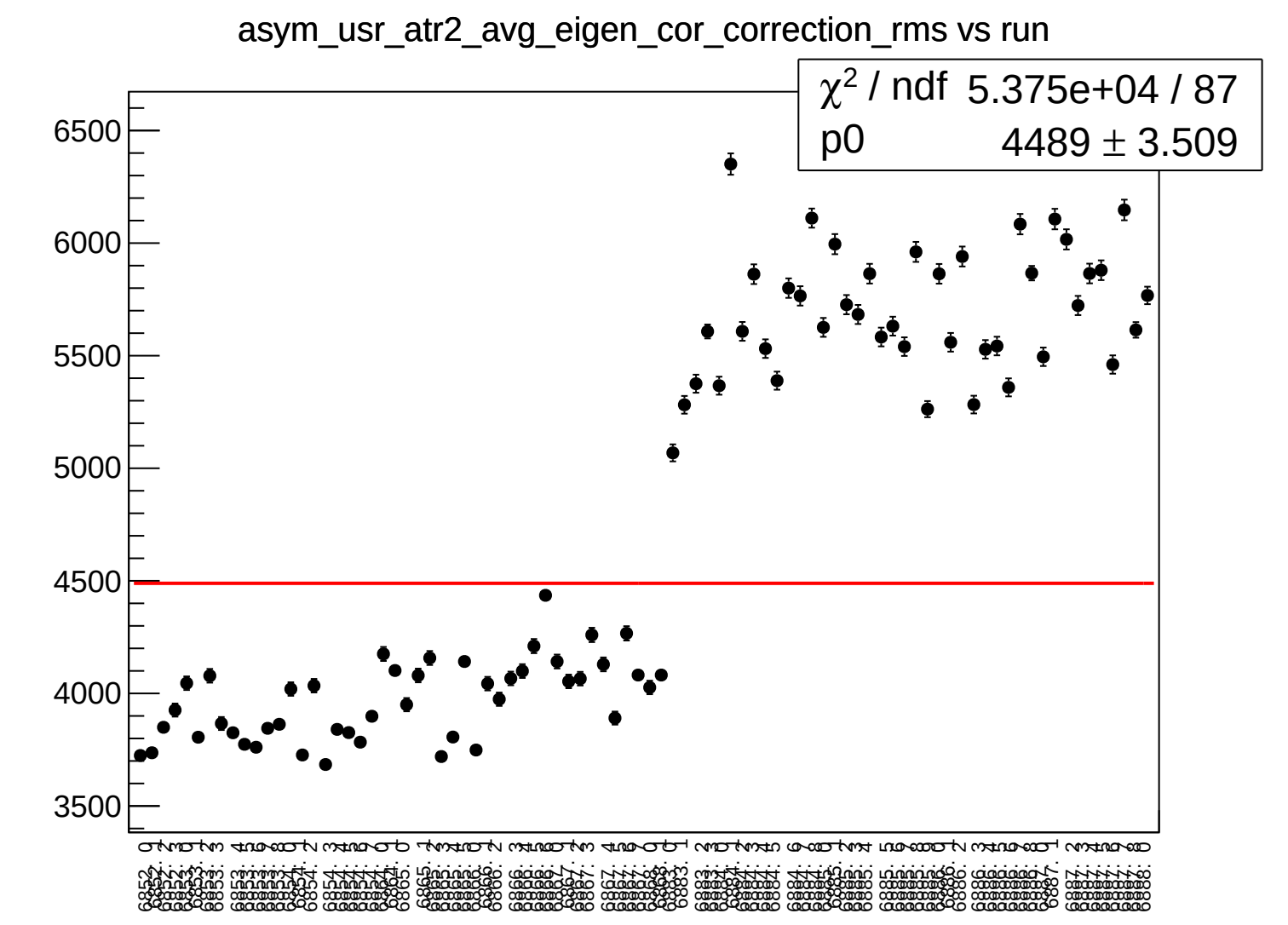

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 5.375e+04 / 87
p0 4489 ± 3.509
6500
6000
5500
5000
4500
4000
3500

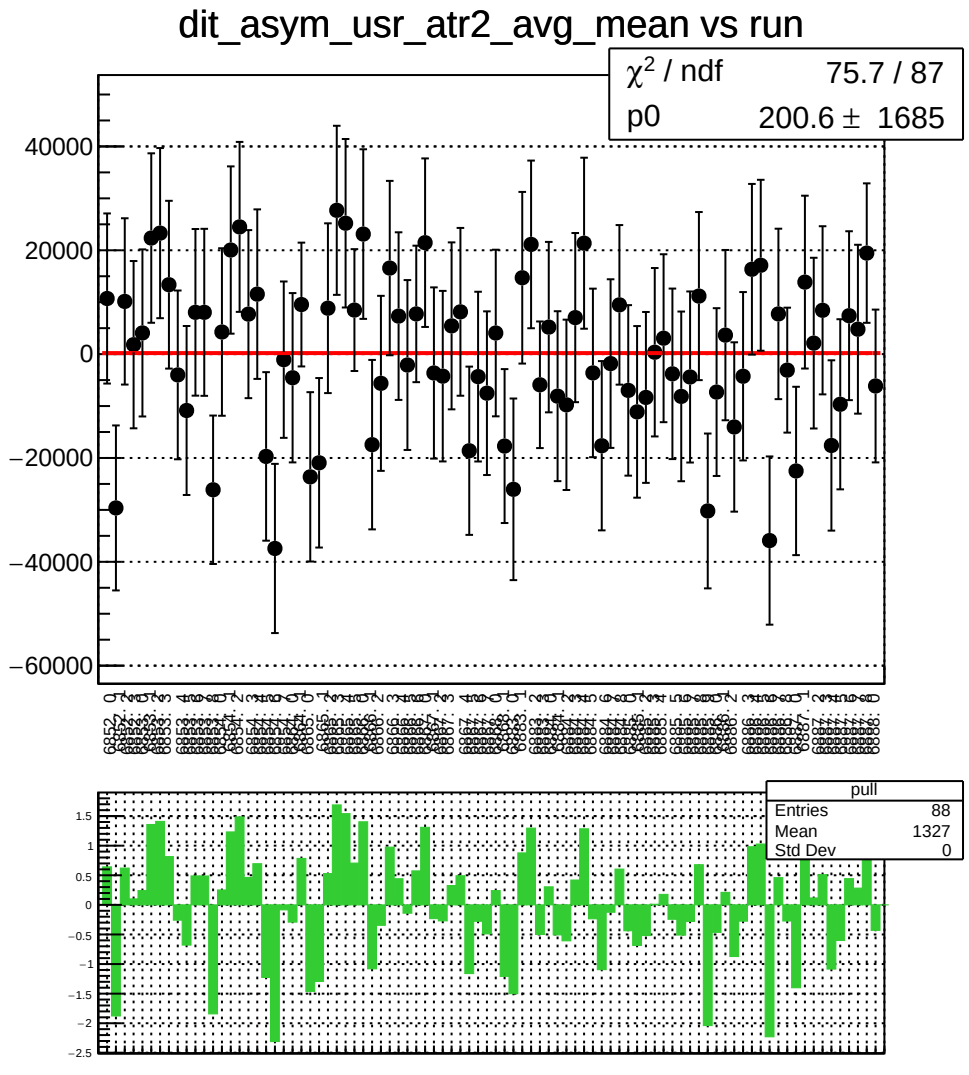

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 87.72 / 87
p0 381.2 ± 1642
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 677.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

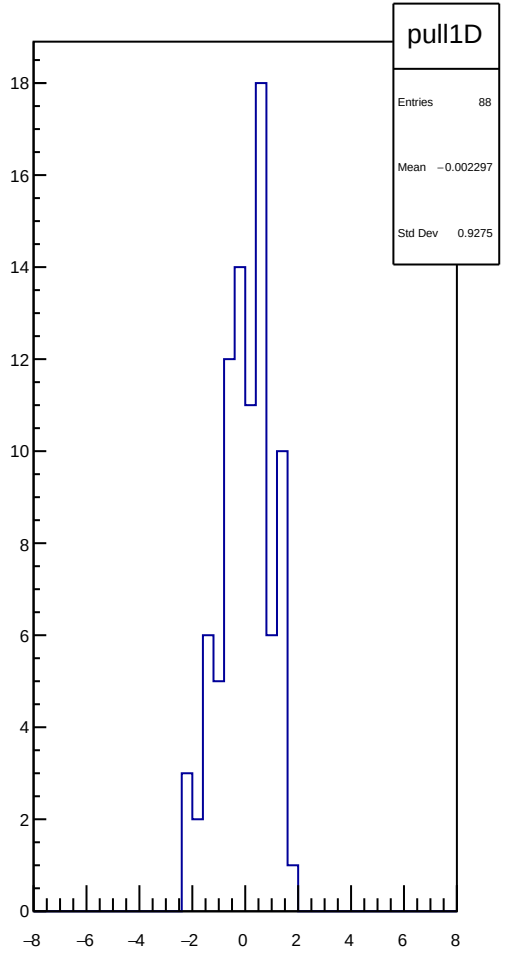

pull1D
Entries 88
Mean −0.004398
Std Dev 0.9984
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

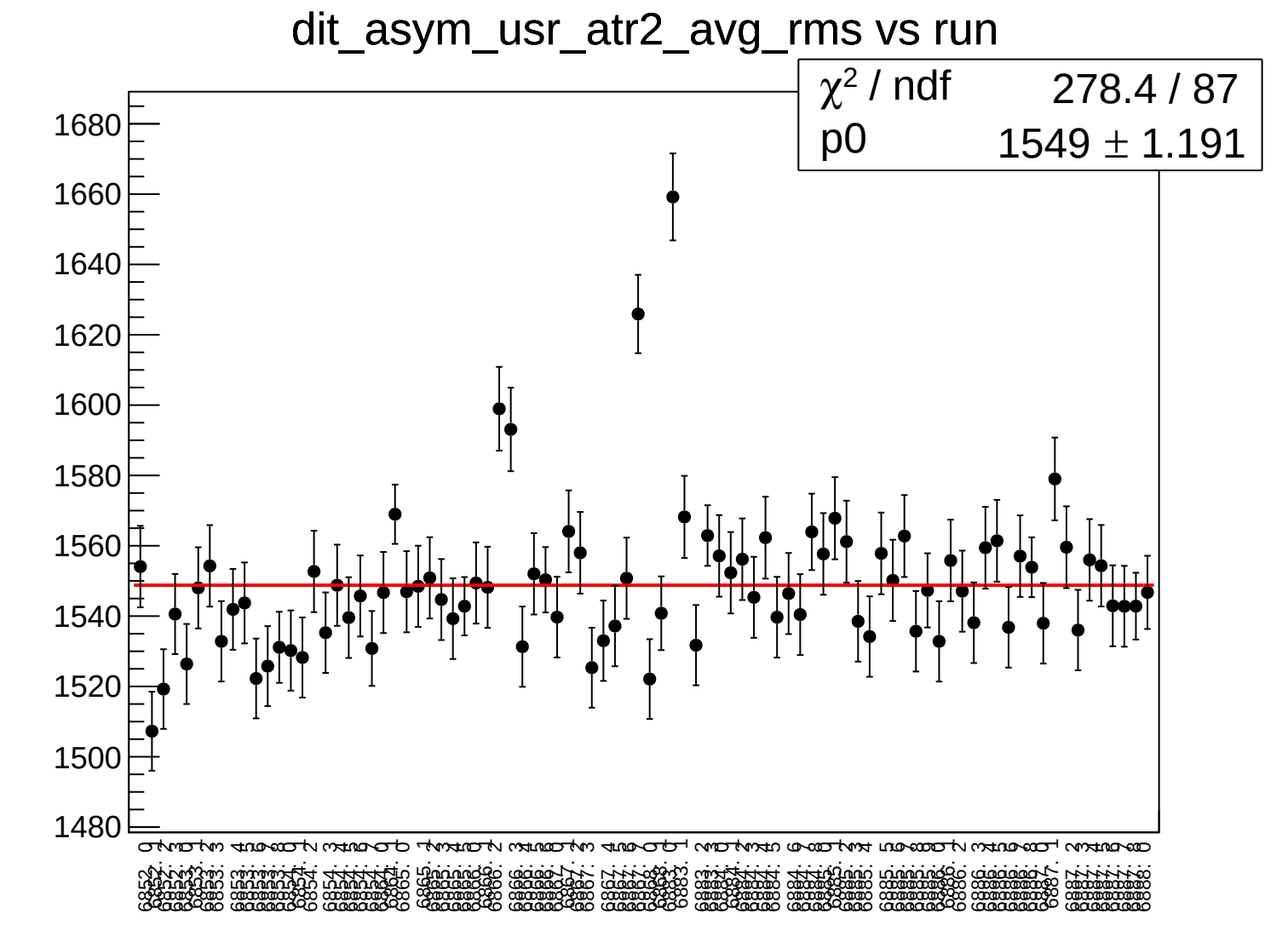

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 173.9 / 87
p0 1510 ± 1.161
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460

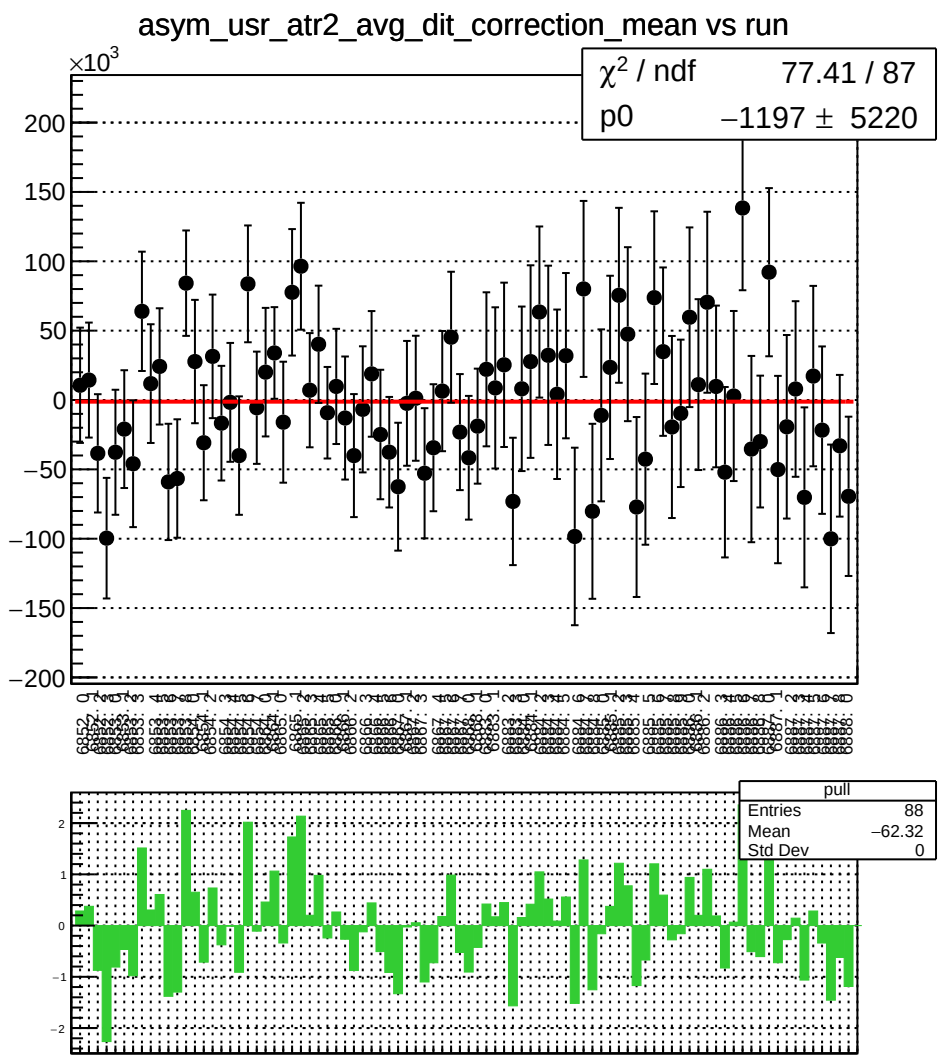

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 78.45 / 87
p0 −1189 ± 4962
pull
Entries 88
Mean −33.52
Std Dev 0
pull1D
Entries 88
Mean 0.006104
Std Dev 0.9441

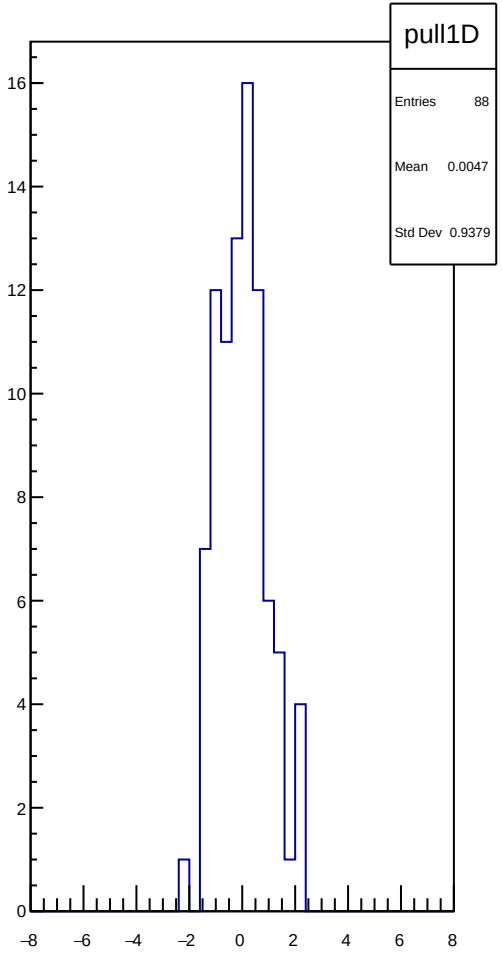

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.375e+04 / 87
p0 4489 ± 3.509
6500
6000
5500
5000
4500
4000
3500

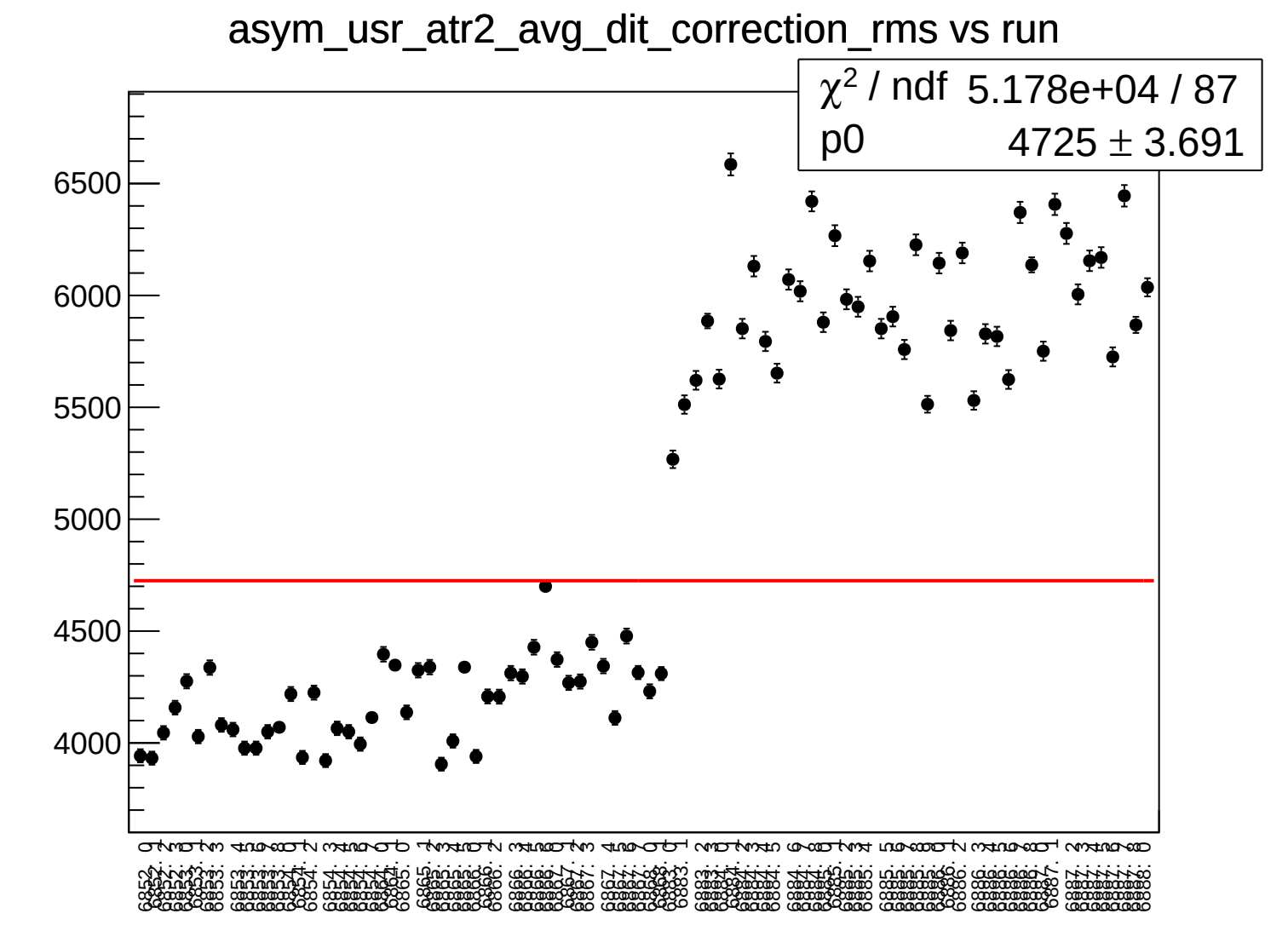

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 75.7 / 87
p0 200.6 ± 1685
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1327
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

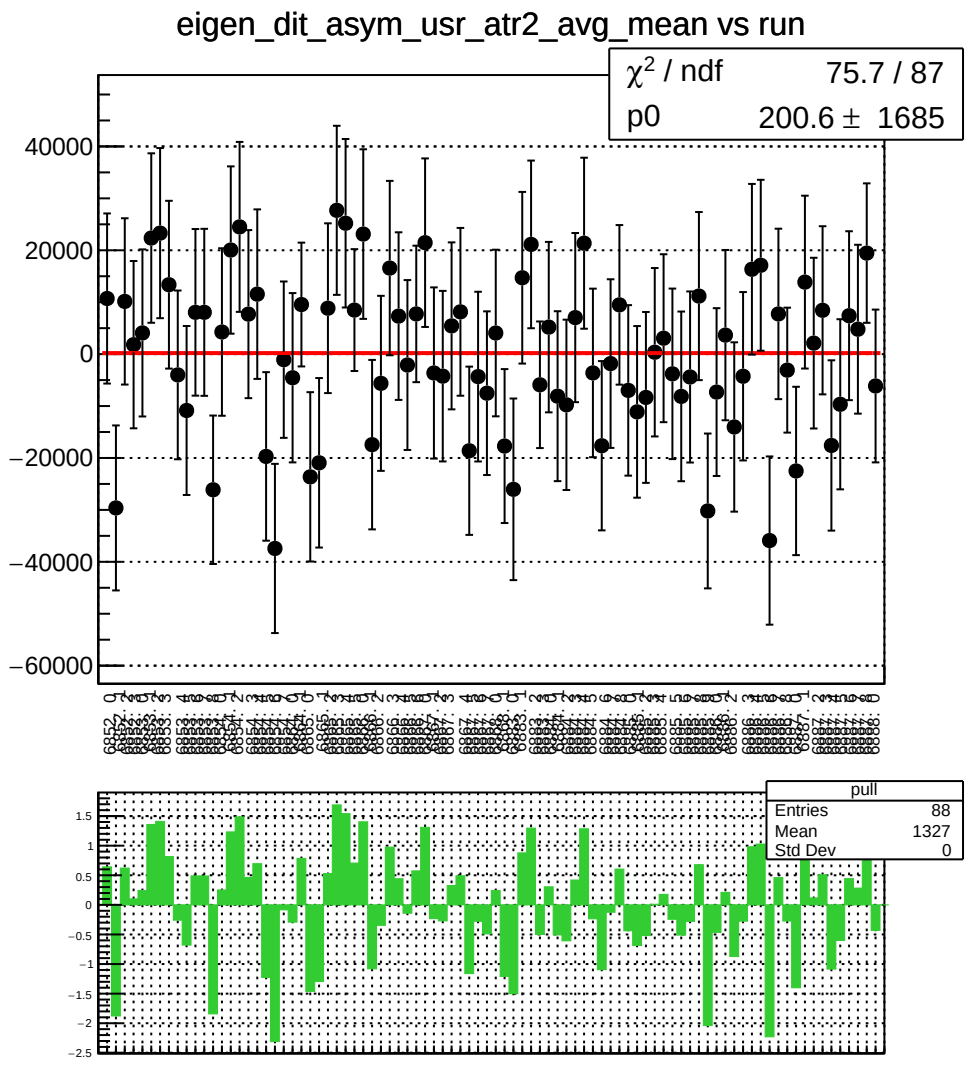

pull1D
Entries 88
Mean −0.002297
Std Dev 0.9275
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

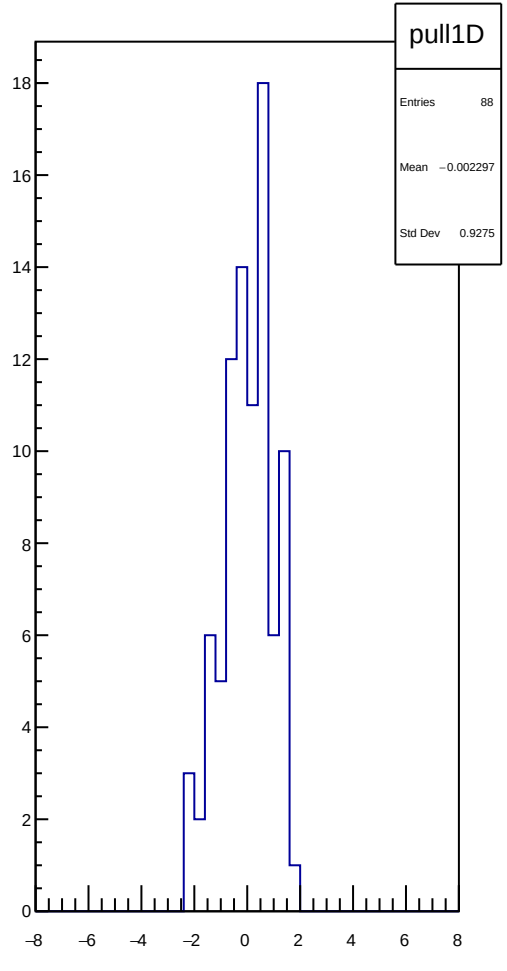

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 278.4 / 87
p0 1549 ± 1.191
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

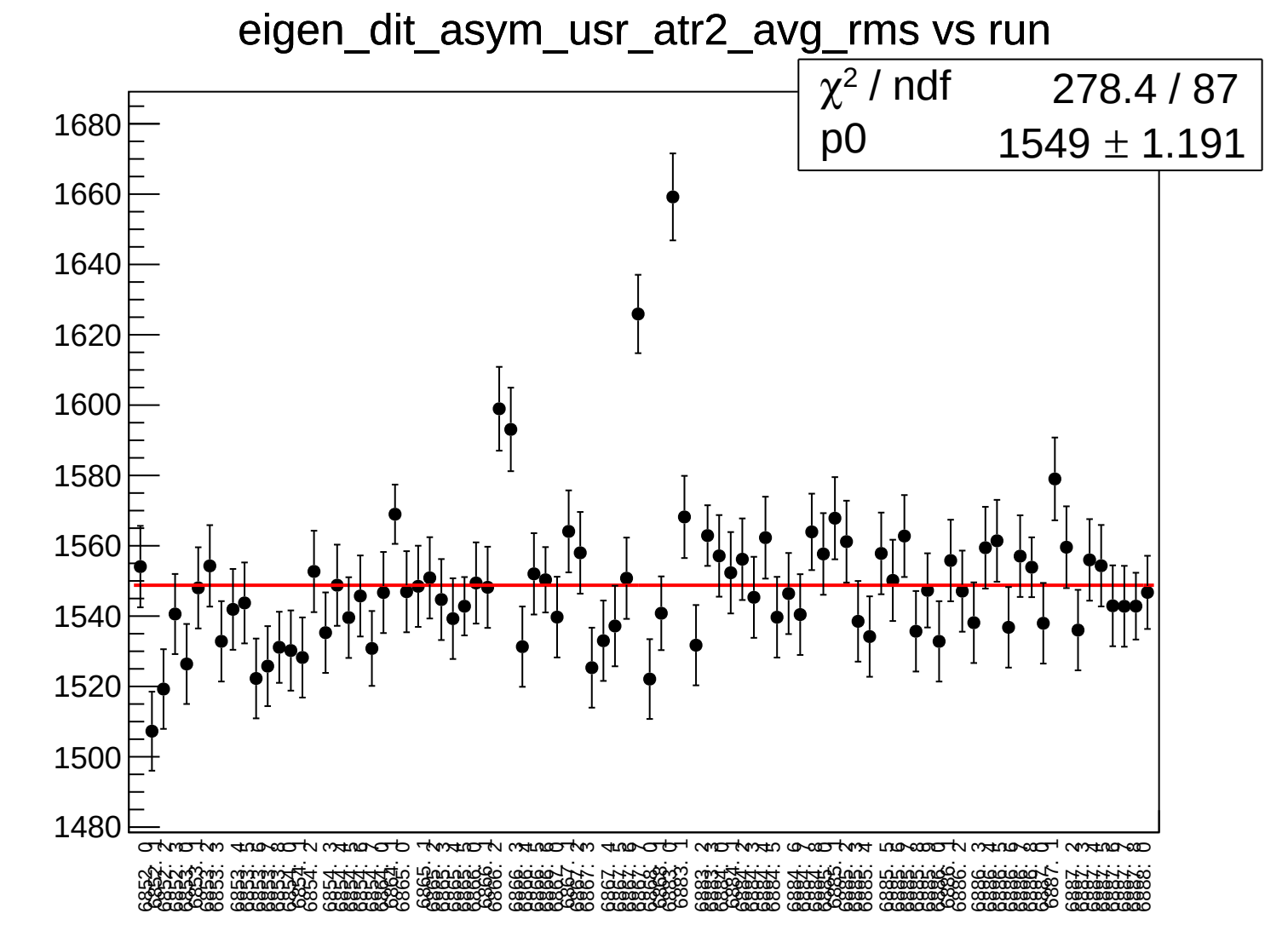

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 77.41 / 87
p0 −1197 ± 5220
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 88
Mean −62.32
Std Dev 0
2
1
0
−1
−2

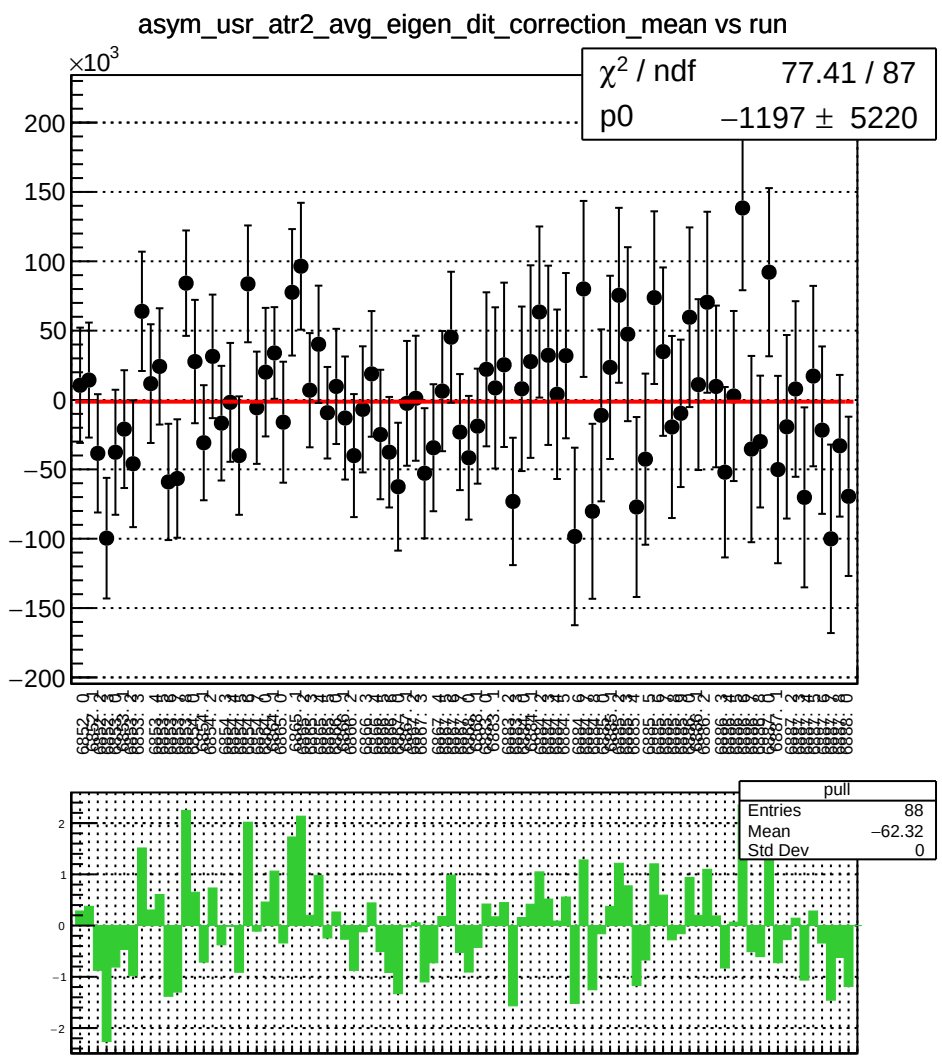

pull1D
Entries 88
Mean 0.0047
Std Dev 0.9379
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

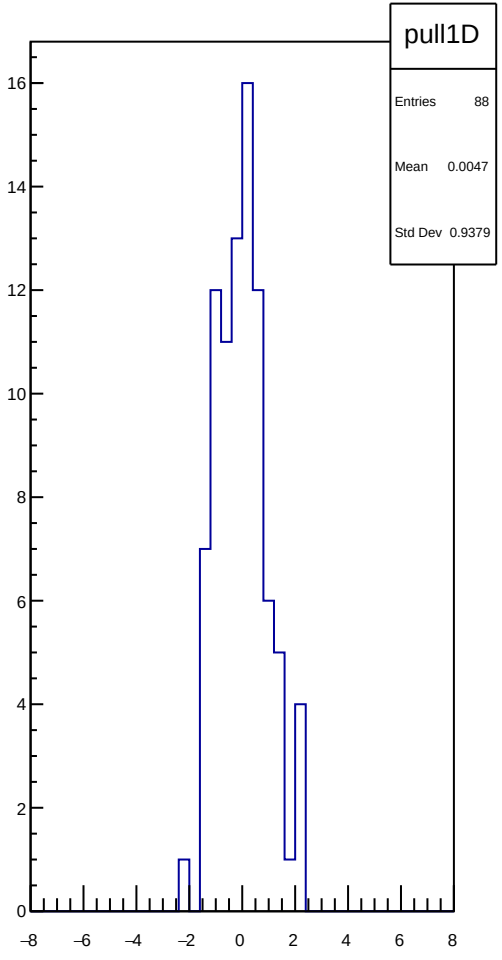

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 5.178e+04 / 87
p0 4725 ± 3.691
6500
6000
5500
5000
4500
4000

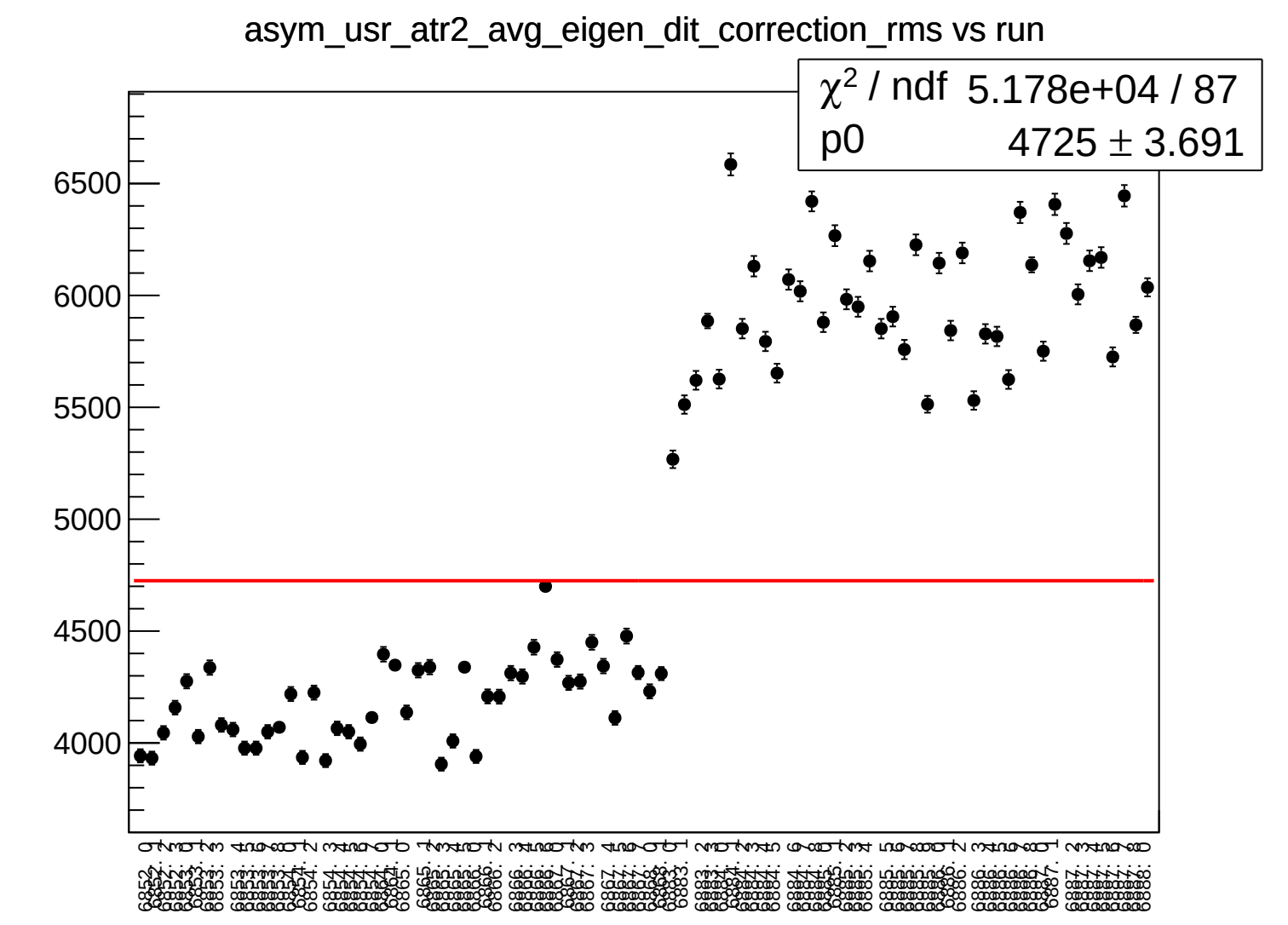

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 75.7 / 87
p0 200.6 ± 1685
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1327
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

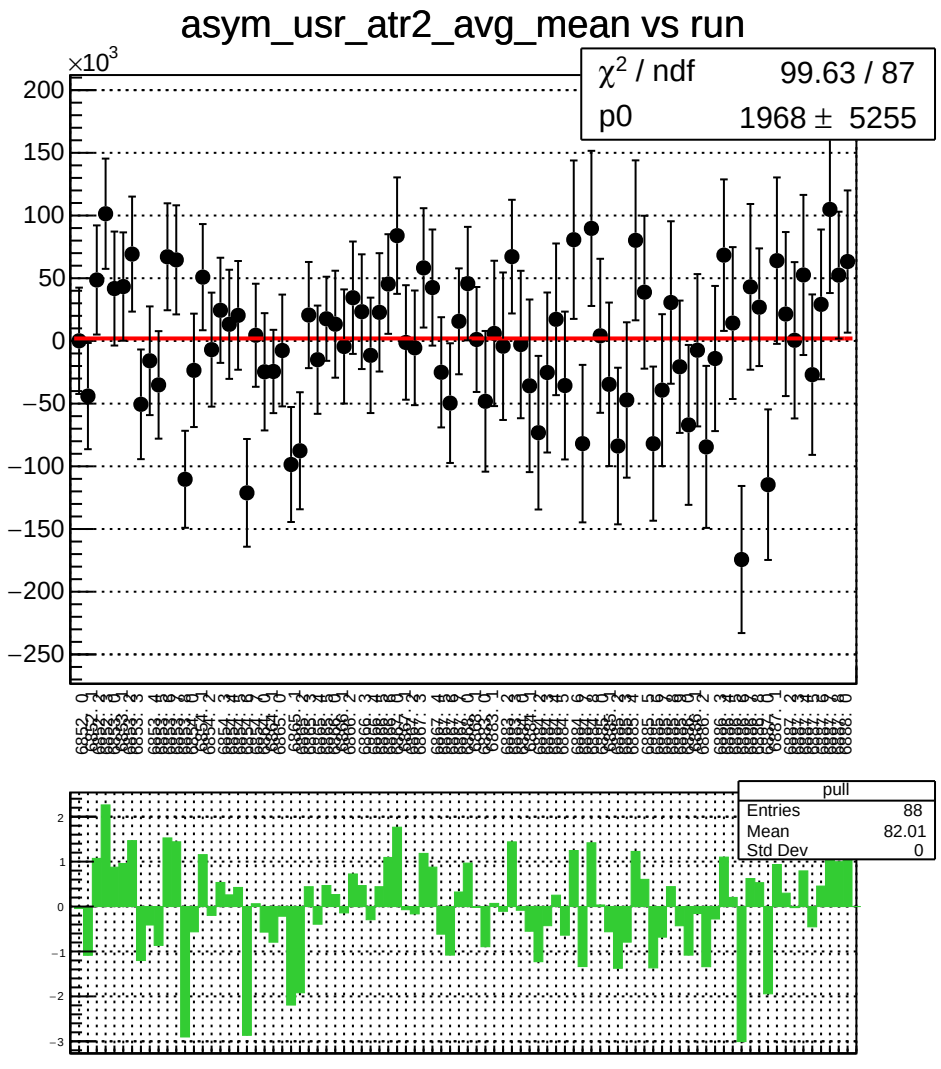

pull1D
Entries 88
Mean −0.002297
Std Dev 0.9275
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

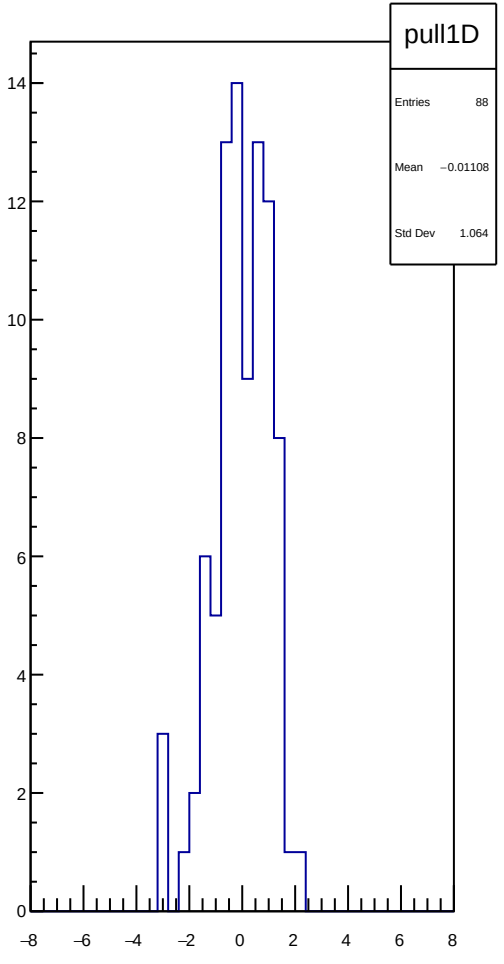

eigen_dit_asym_usr_atr2_avg_rms vs run
χ^2 / ndf 278.4 / 87
p0 1549 ± 1.191
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

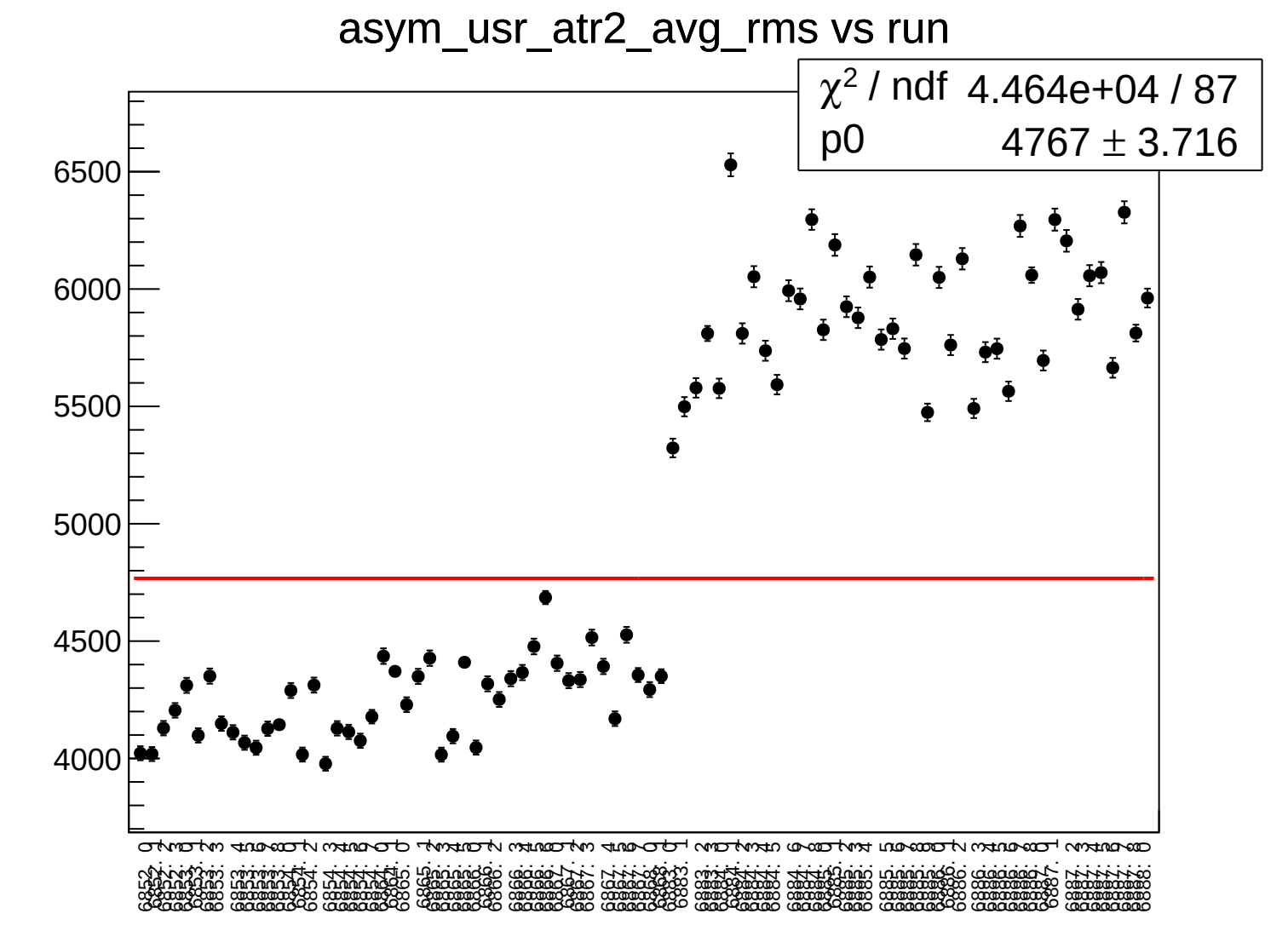

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.41 / 87
p0 −1197 ± 5220
pull
Entries 88
Mean −62.32
Std Dev 0

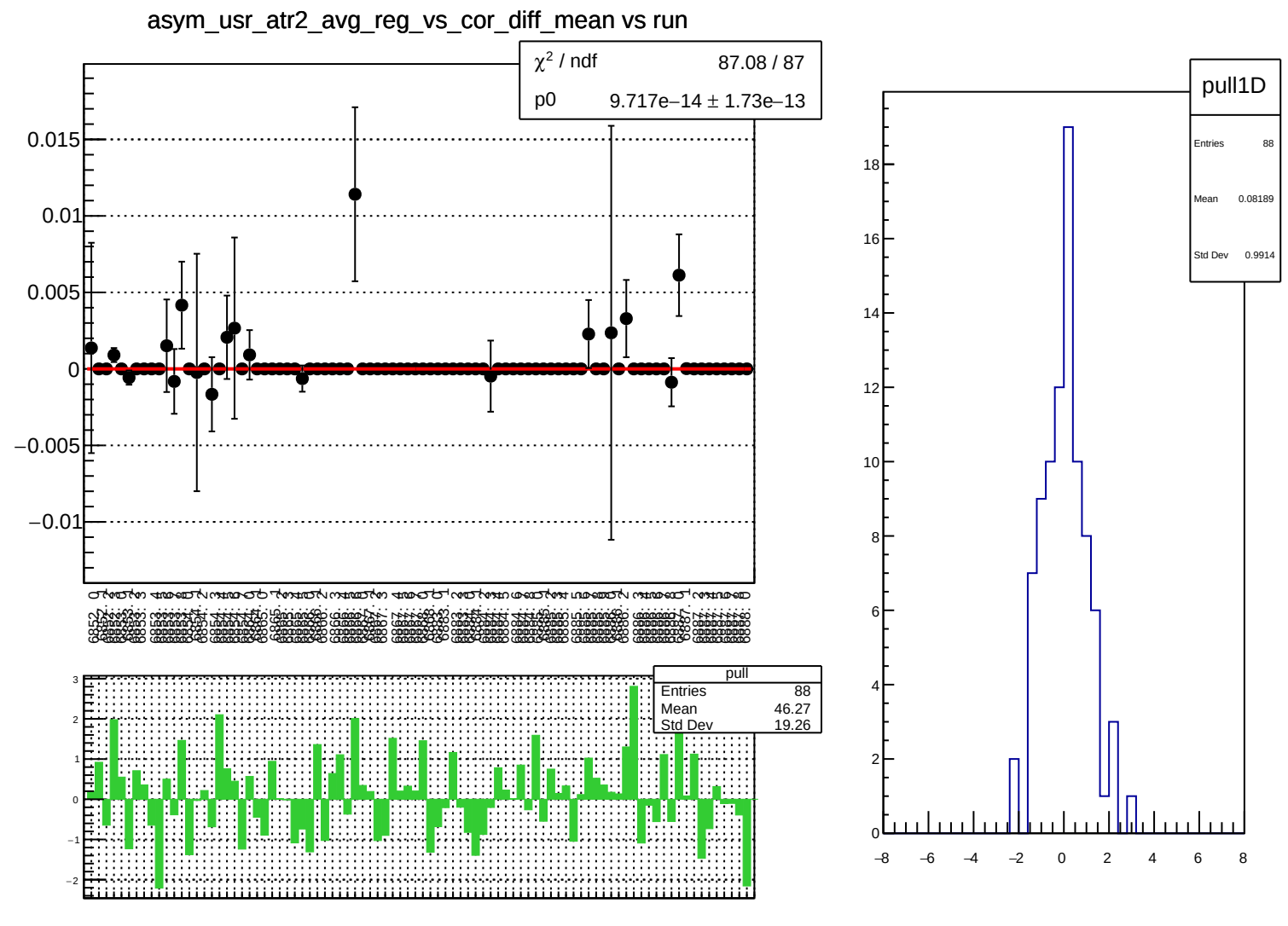

pull1D
Entries 88
Mean 0.0047
Std Dev 0.9379

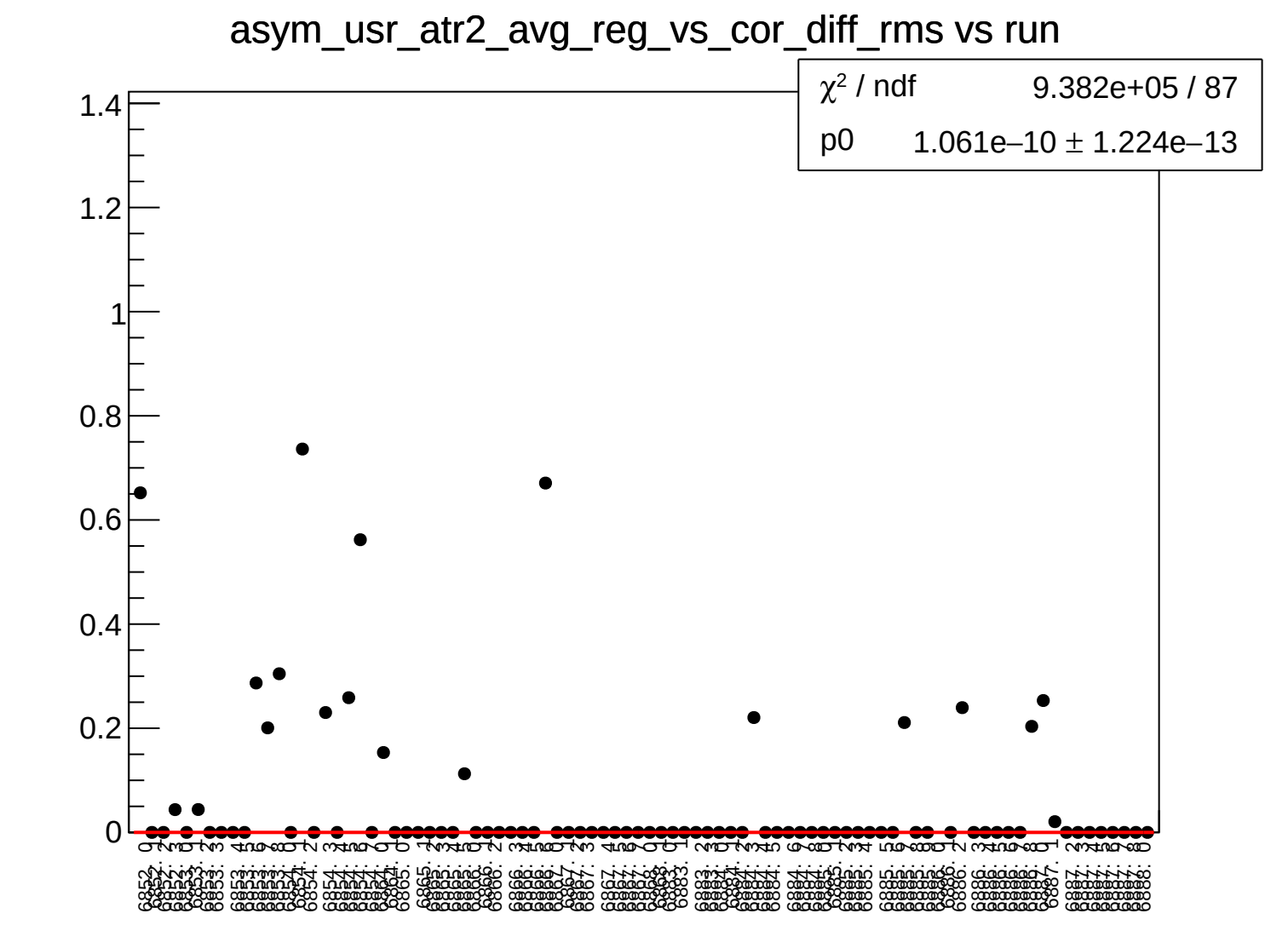

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.178e+04 / 87
p0 4725 ± 3.691
6500
6000
5500
5000
4500
4000

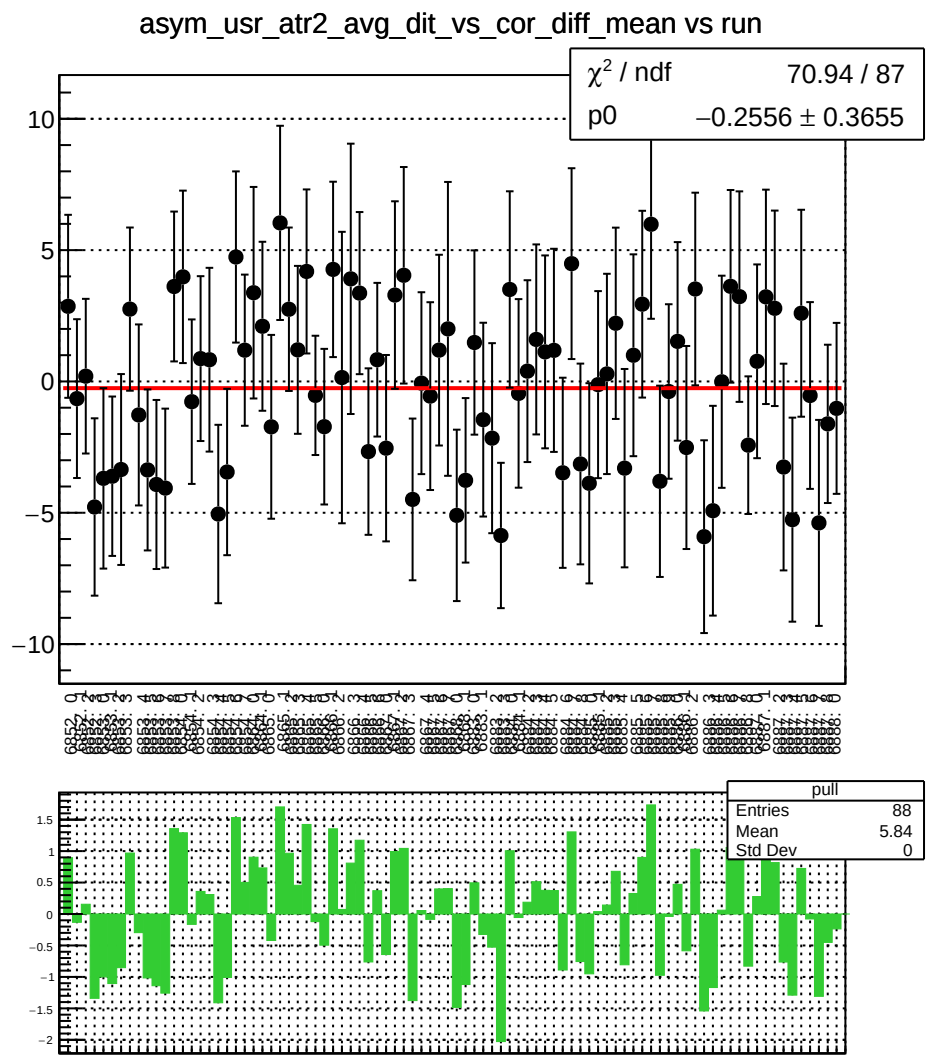

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 99.63 / 87
p0 1968 ± 5255
pull
Entries 88
Mean 82.01
Std Dev 0

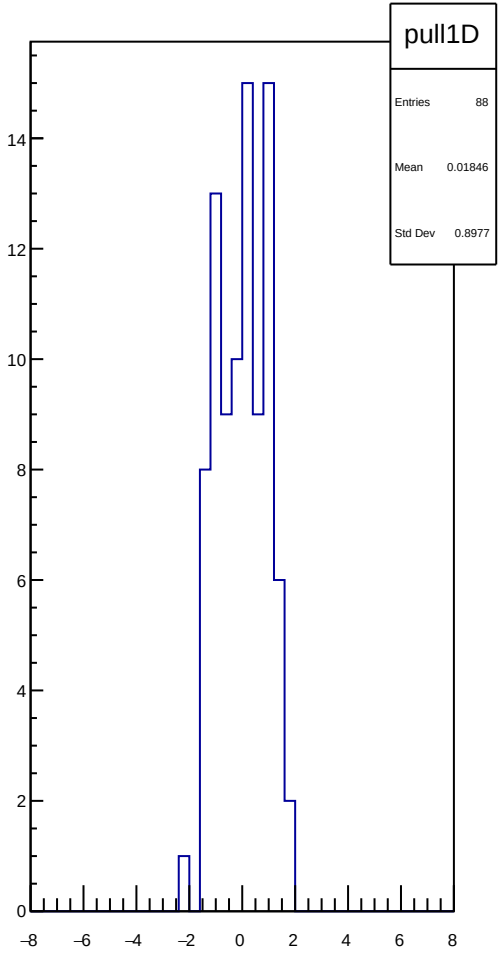

pull1D
Entries 88
Mean −0.01108
Std Dev 1.064

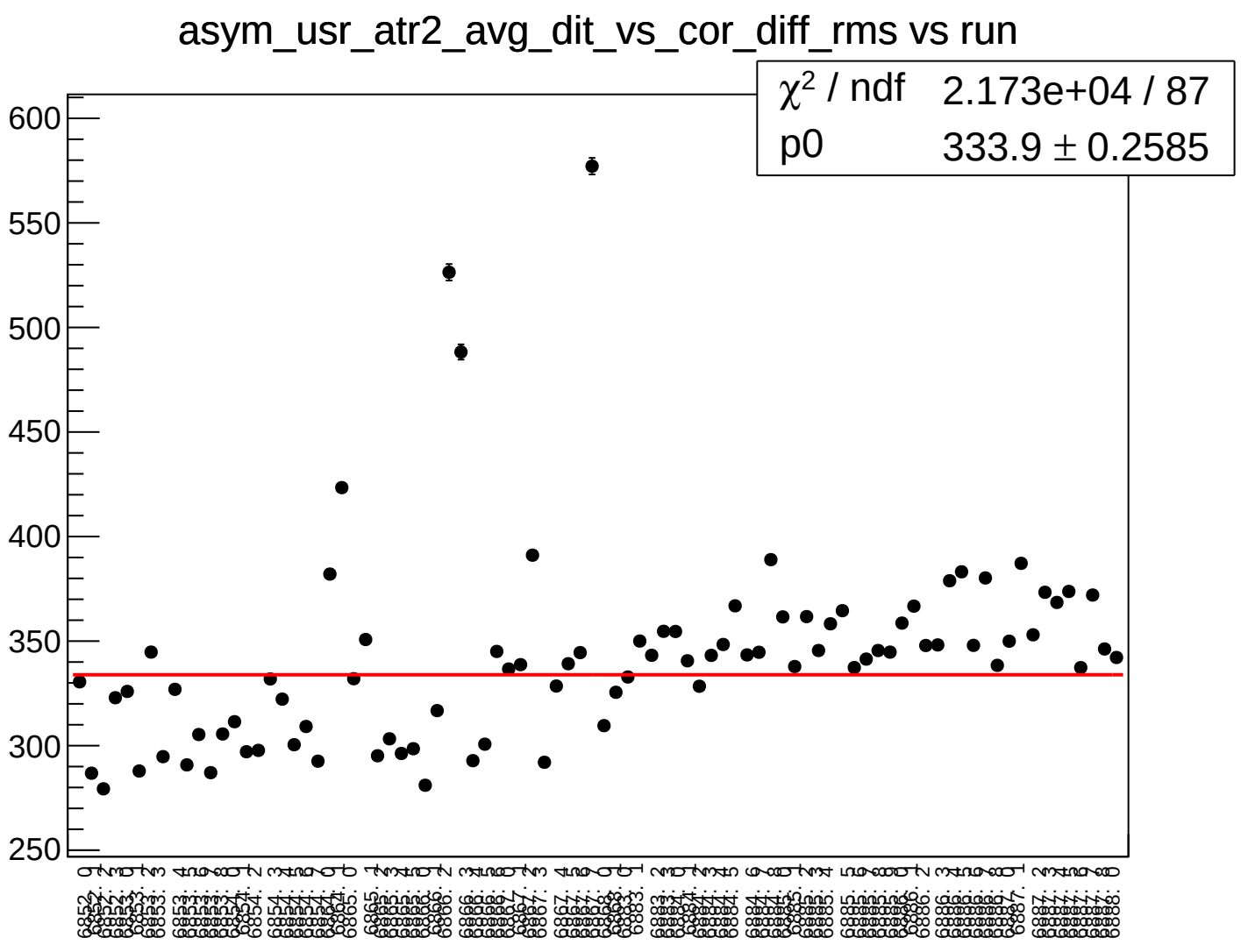

asym_usr_atr2_avg_rms vs run
χ² / ndf 4.464e+04 / 87
p0 4767 ± 3.716
6500
6000
5500
5000
4500
4000

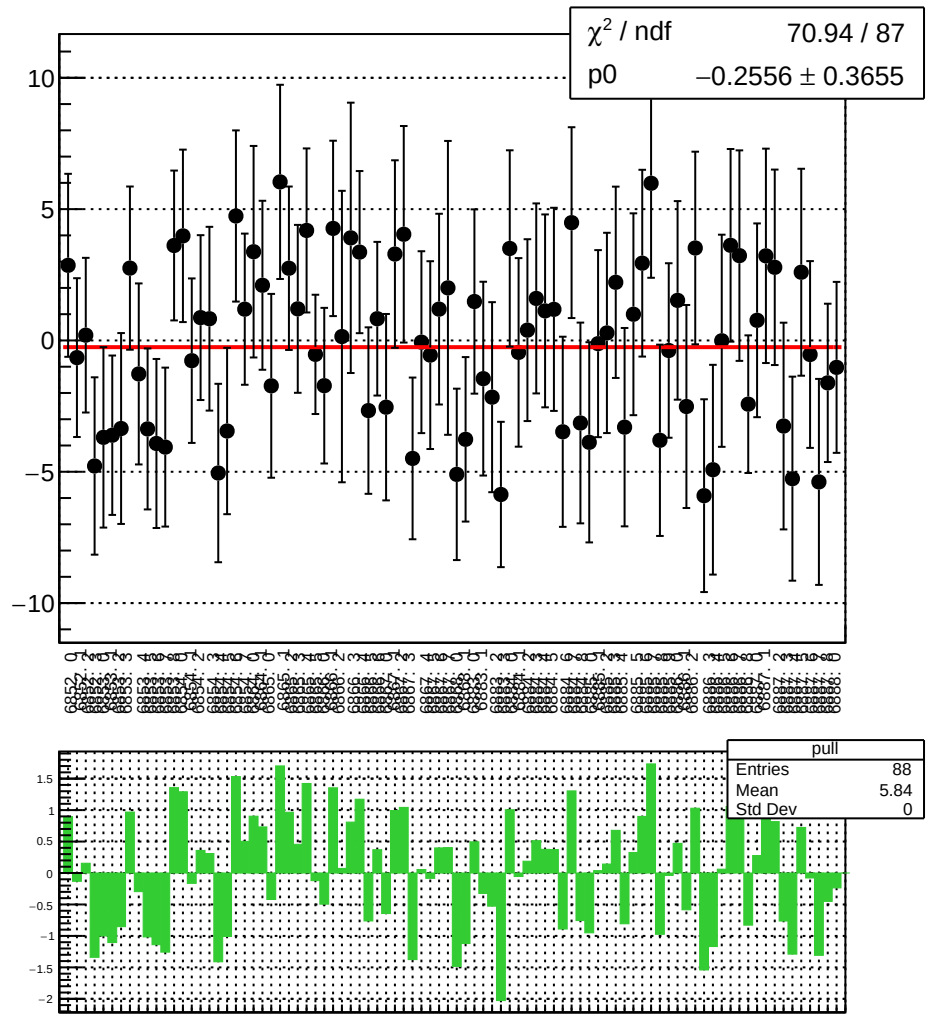

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.08 / 87
p0 9.717e−14 ± 1.73e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean 46.27
Std Dev 19.26
pull1D
Entries 88
Mean 0.08189
Std Dev 0.9914
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

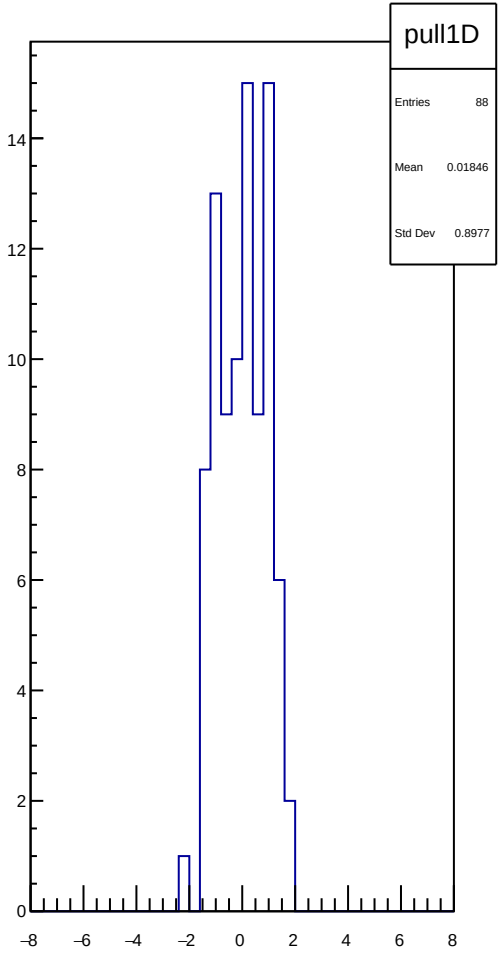

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.382e+05 / 87
p0 1.061e−10 ± 1.224e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

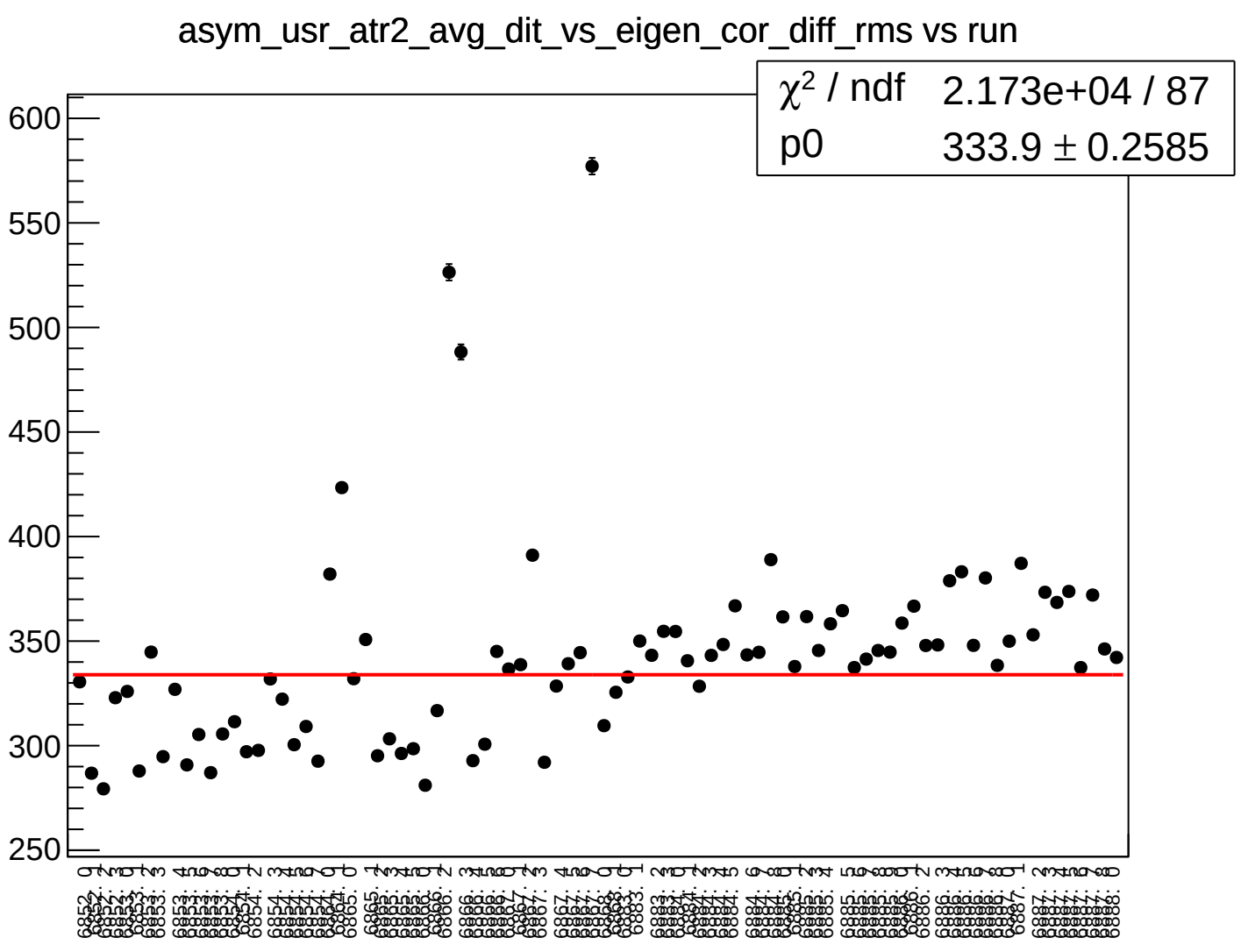

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.94 / 87
p0 −0.2556 ± 0.3655
pull
Entries 88
Mean 5.84
Std Dev 0

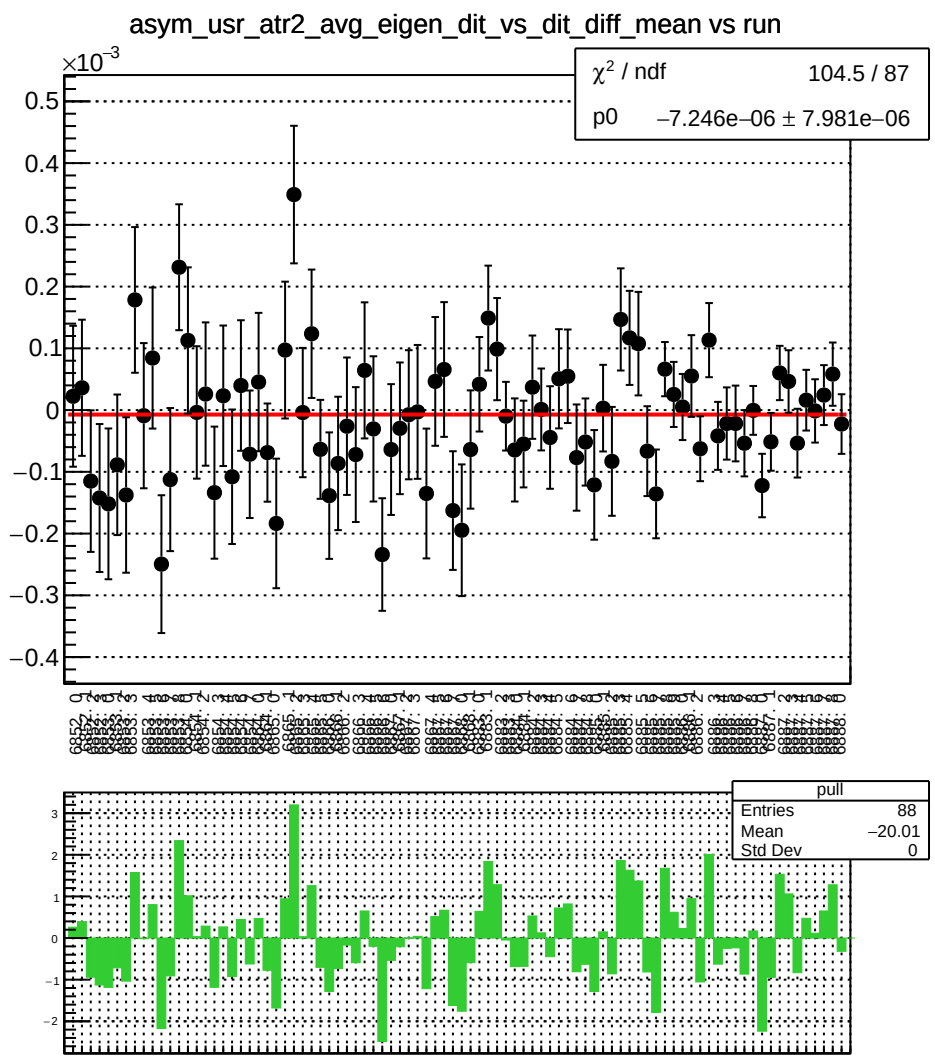

pull1D
Entries 88
Mean 0.01846
Std Dev 0.8977

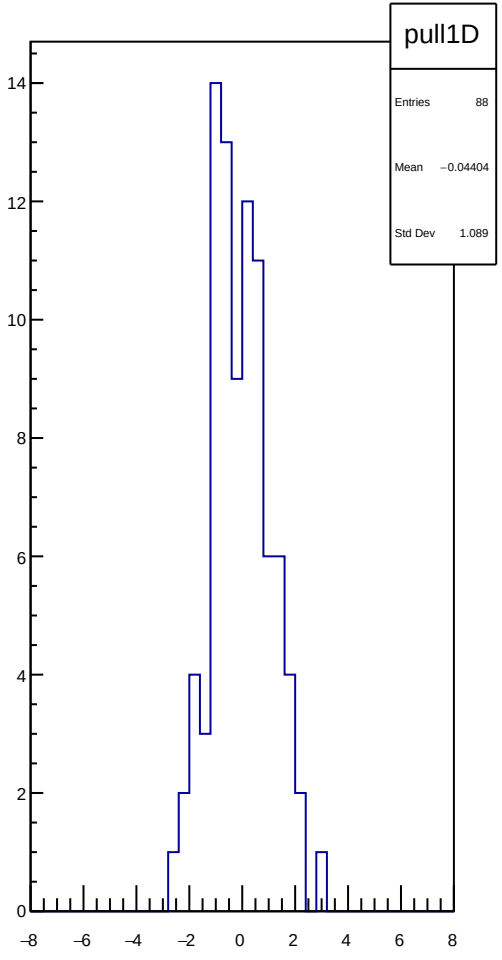

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.173e+04 / 87
p0 333.9 ± 0.2585
600
550
500
450
400
350
300
250

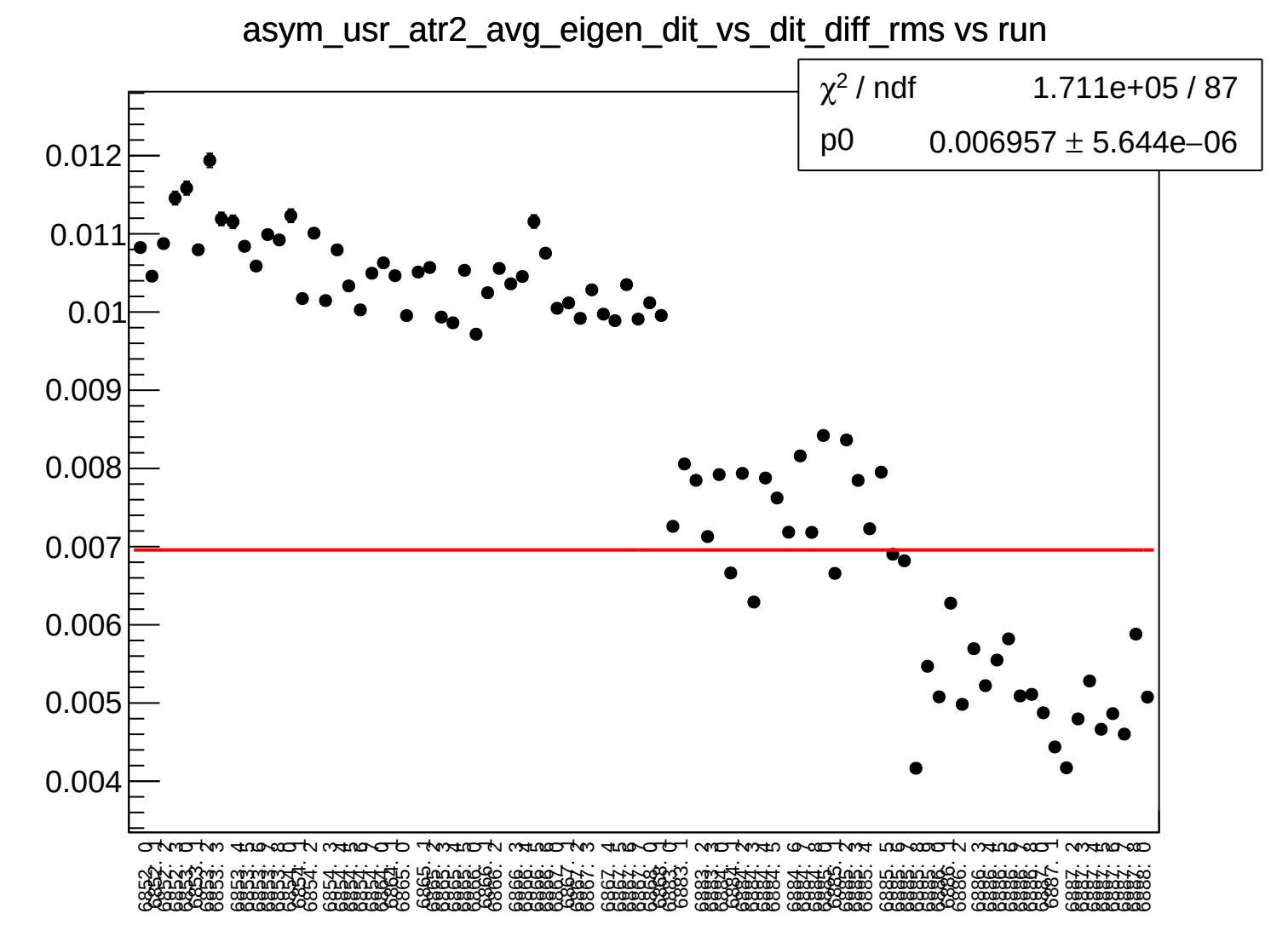

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.94 / 87
p0 −0.2556 ± 0.3655
pull
Entries 88
Mean 5.84
Std Dev 0

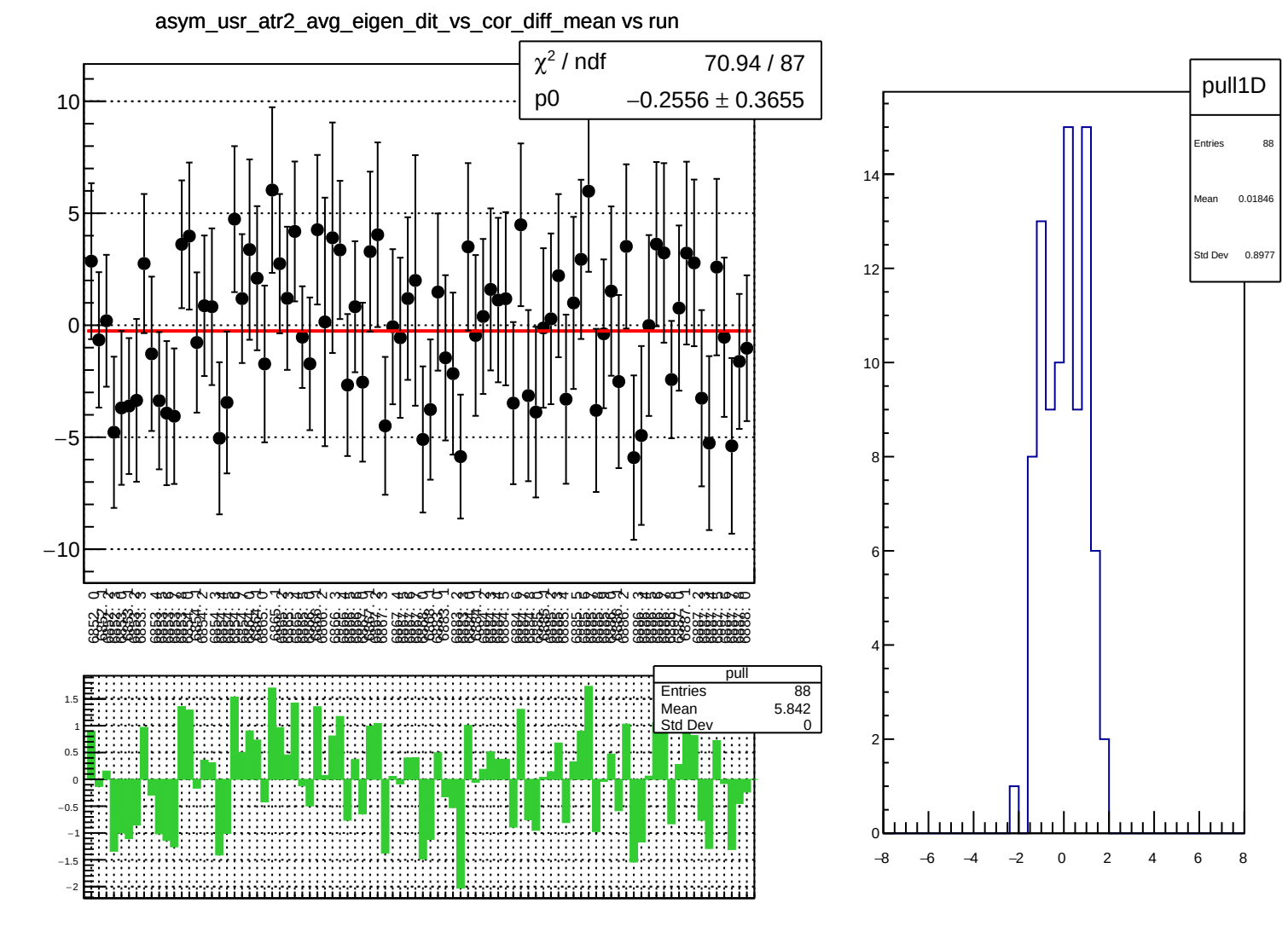

pull1D
Entries 88
Mean 0.01846
Std Dev 0.8977

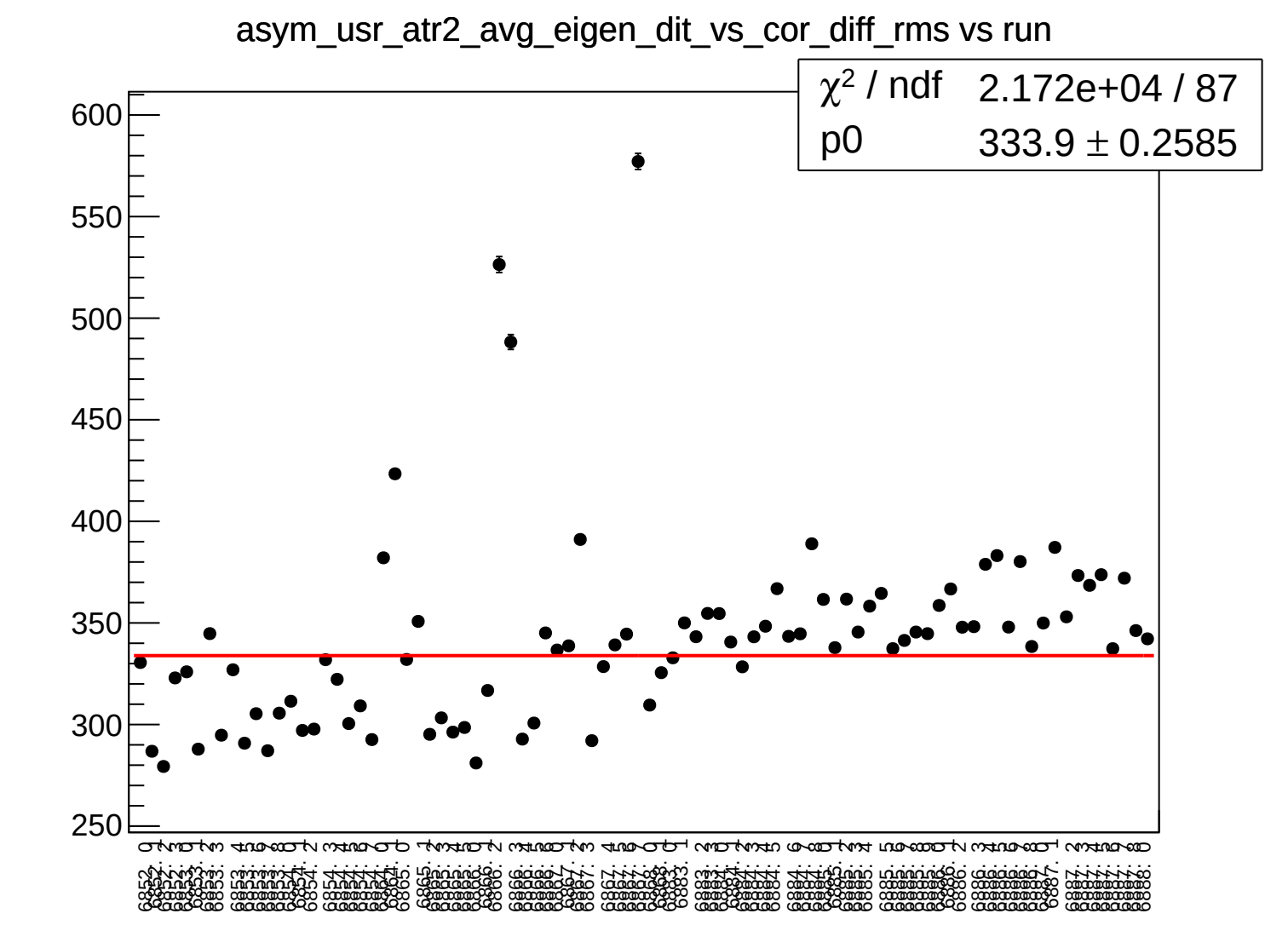

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.173e+04 / 87
p0 333.9 ± 0.2585
600
550
500
450
400
350
300
250

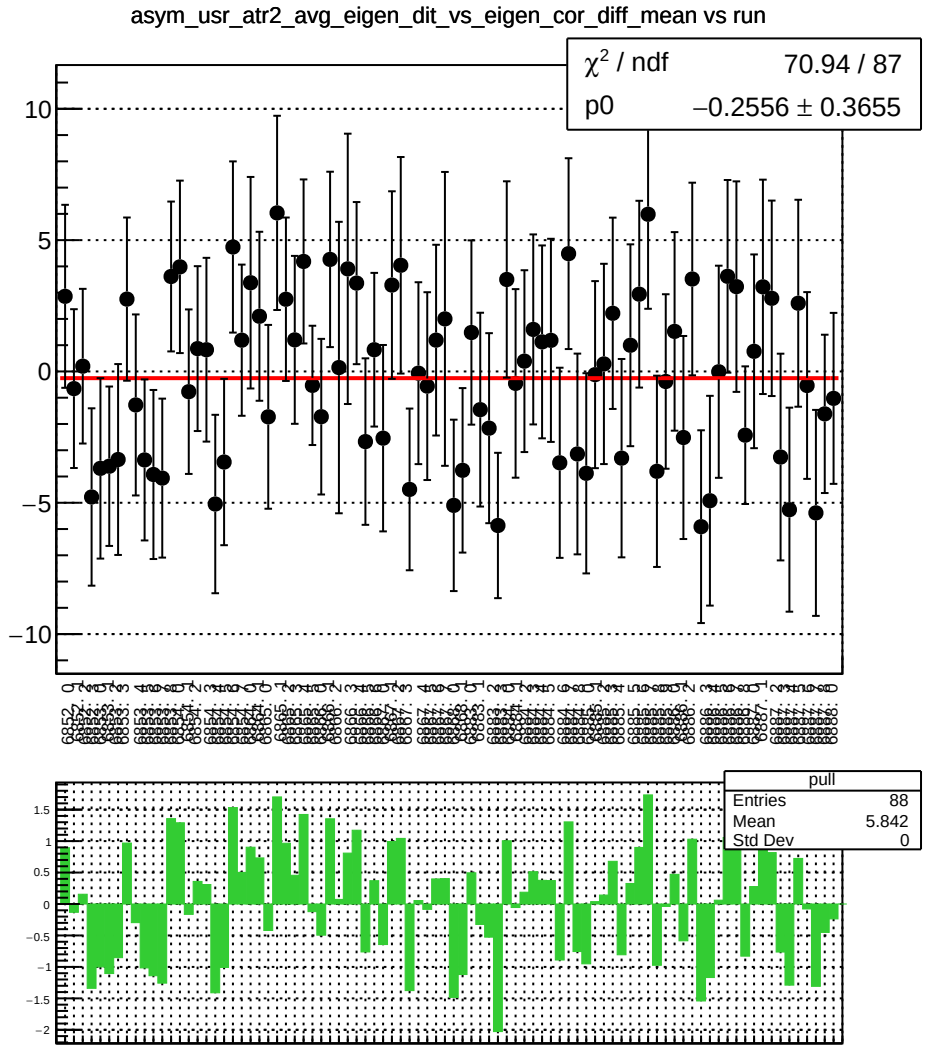

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.5 / 87
p0 −7.246e−06 ± 7.981e−06
pull
Entries 88
Mean −20.01
Std Dev 0

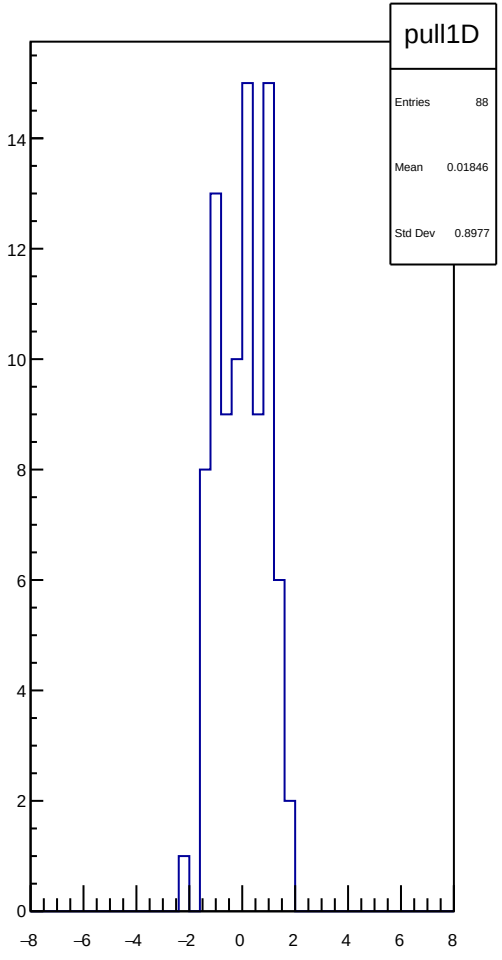

pull1D
Entries 88
Mean −0.04404
Std Dev 1.089

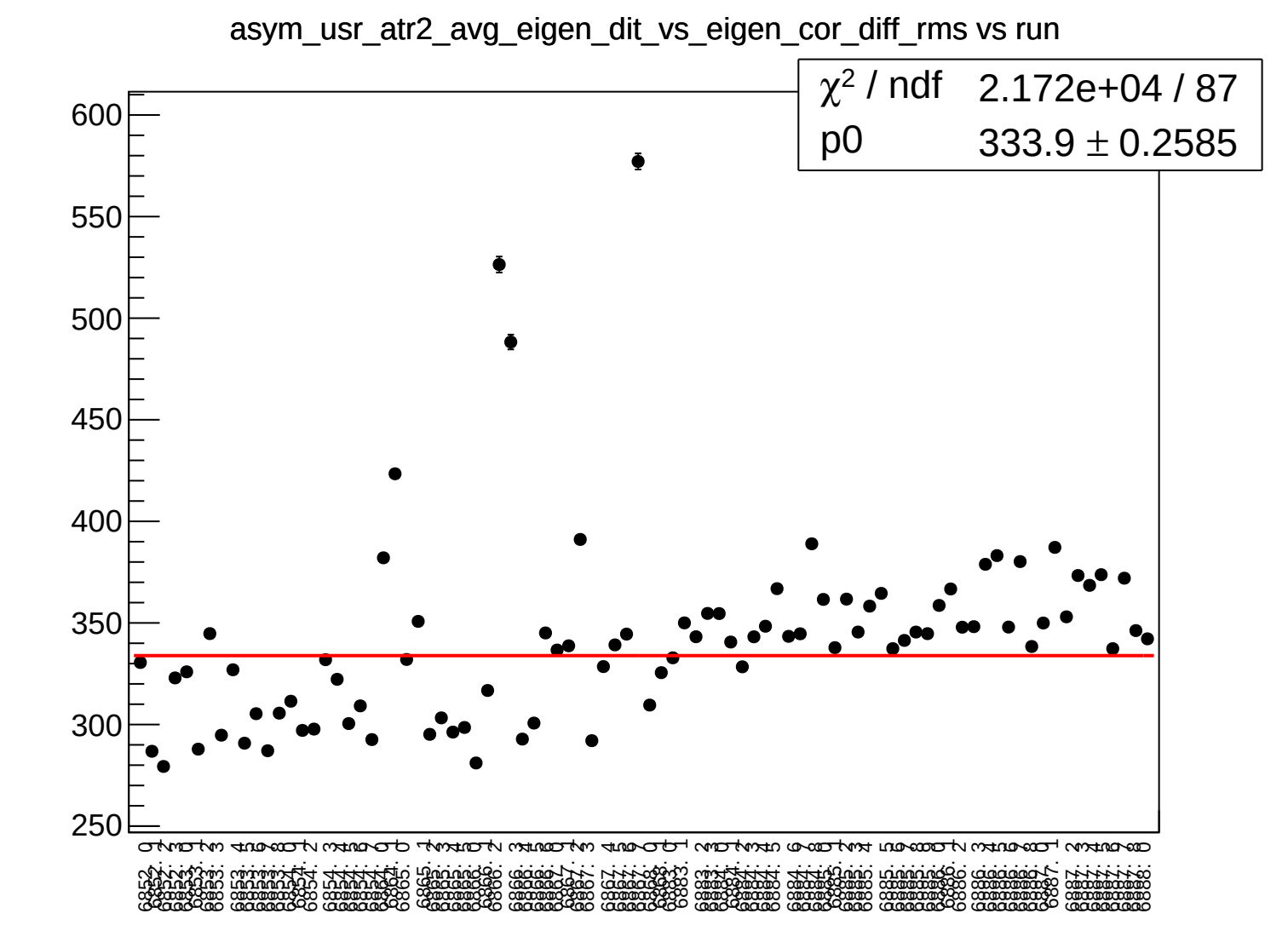

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.711e+05 / 87
p0 0.006957 ± 5.644e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

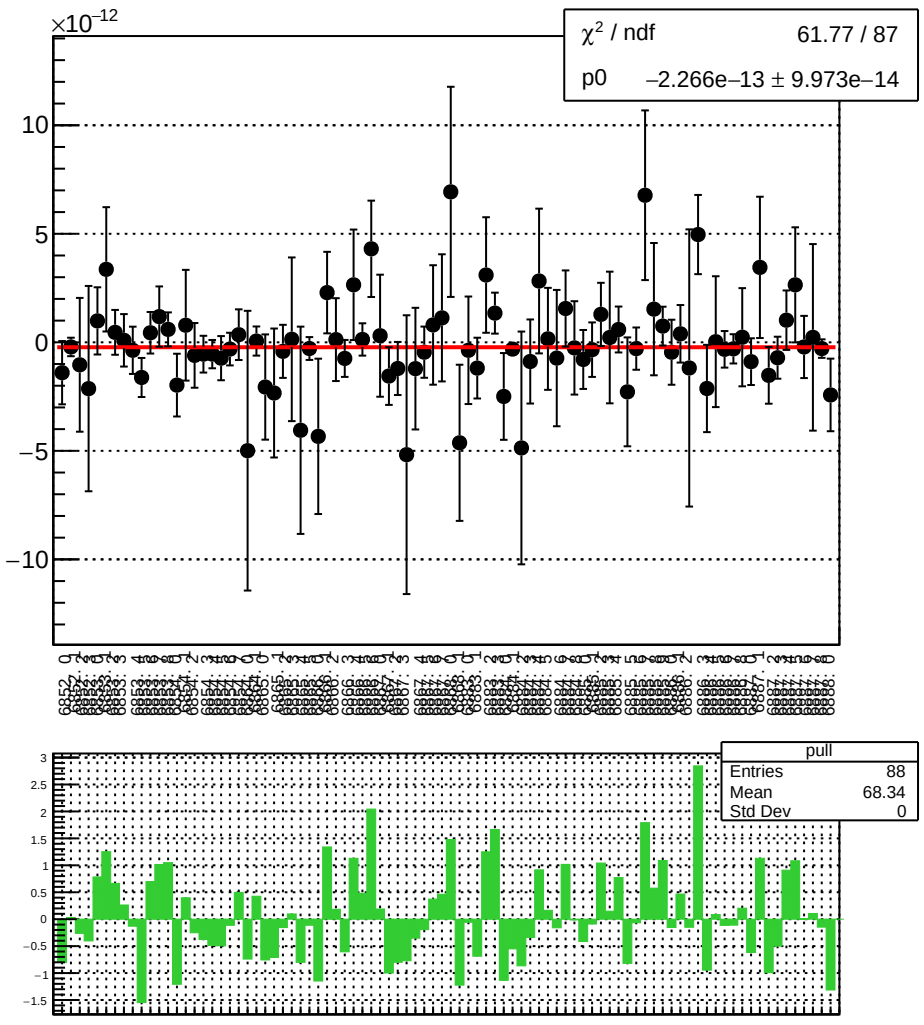

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.94 / 87
p0 −0.2556 ± 0.3655
pull
Entries 88
Mean 5.842
Std Dev 0
pull1D
Entries 88
Mean 0.01846
Std Dev 0.8977

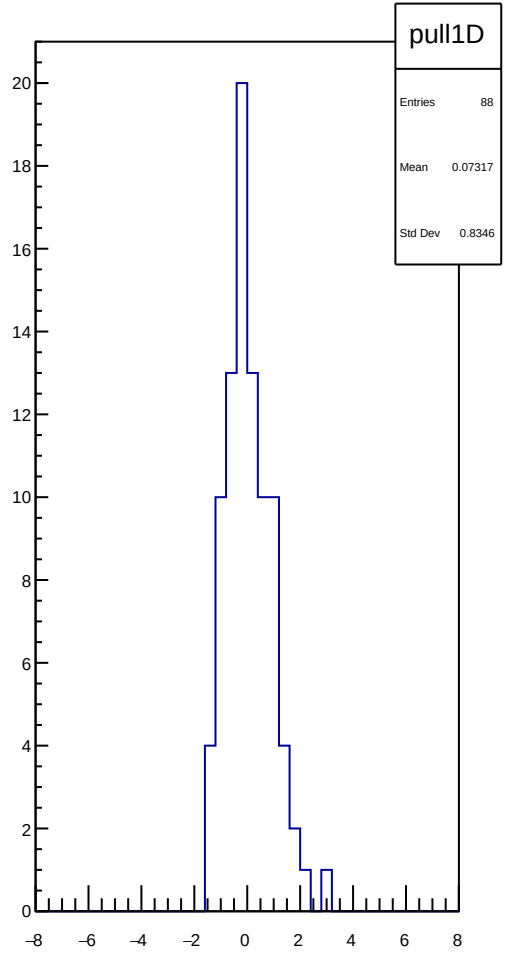

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.172e+04 / 87
p0 333.9 ± 0.2585
600
550
500
450
400
350
300
250

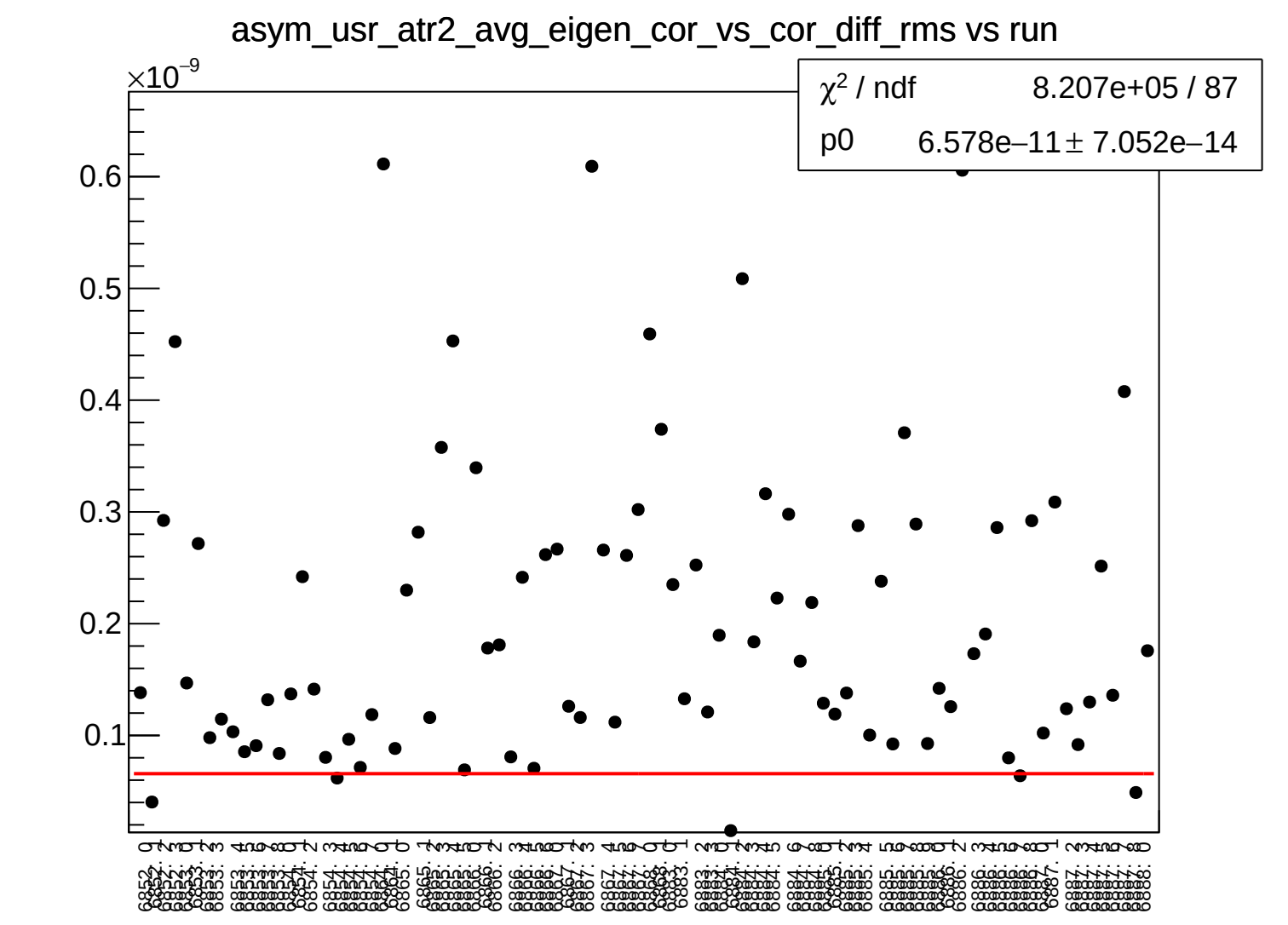

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.94 / 87
p0 −0.2556 ± 0.3655
pull
Entries 88
Mean 5.842
Std Dev 0

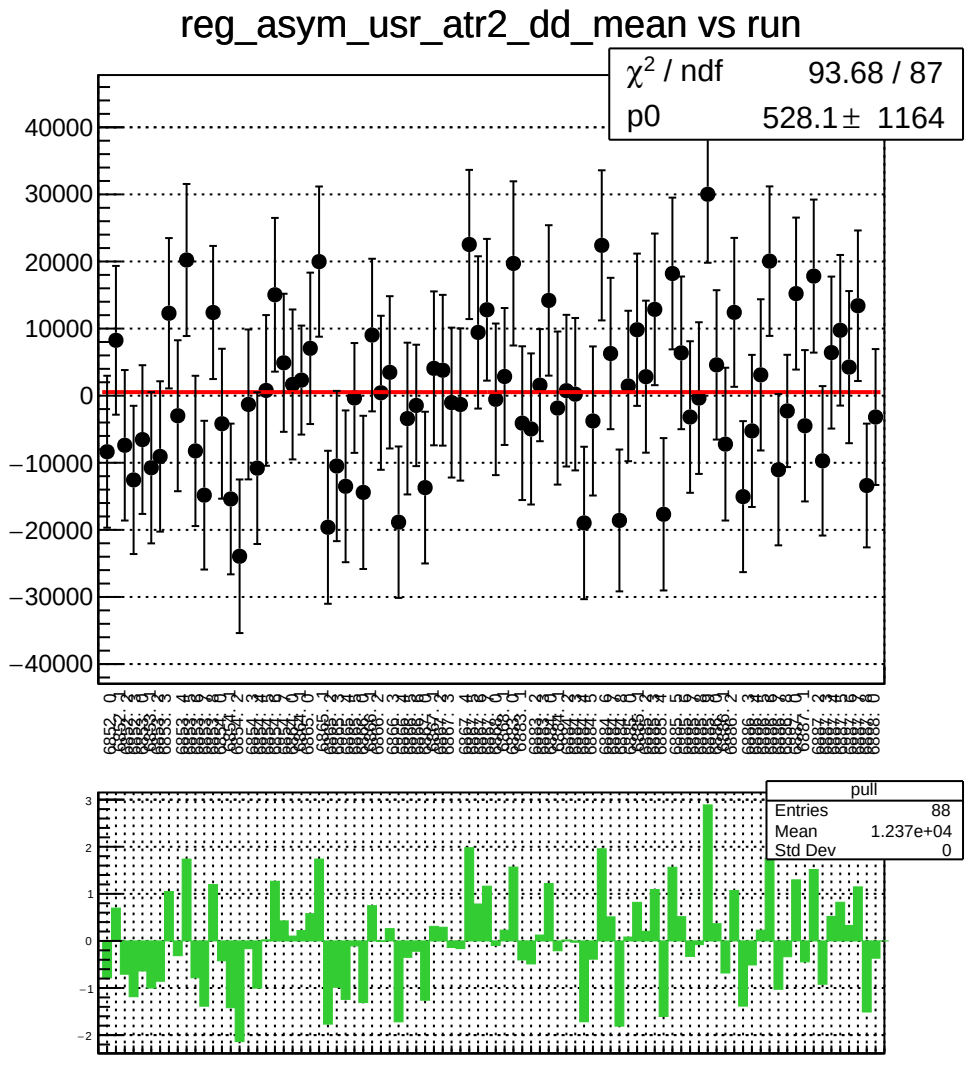

pull1D
Entries 88
Mean 0.01846
Std Dev 0.8977

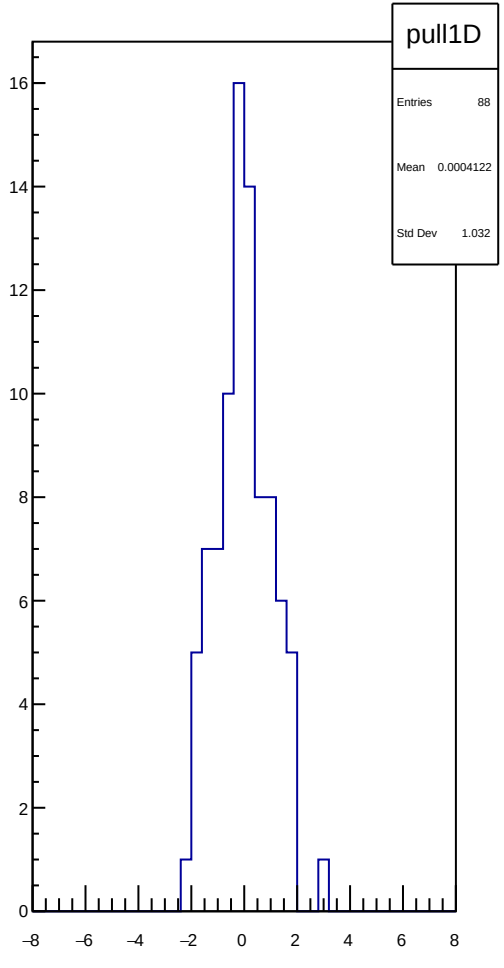

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.172e+04 / 87
p0 333.9 ± 0.2585
600
550
500
450
400
350
300
250

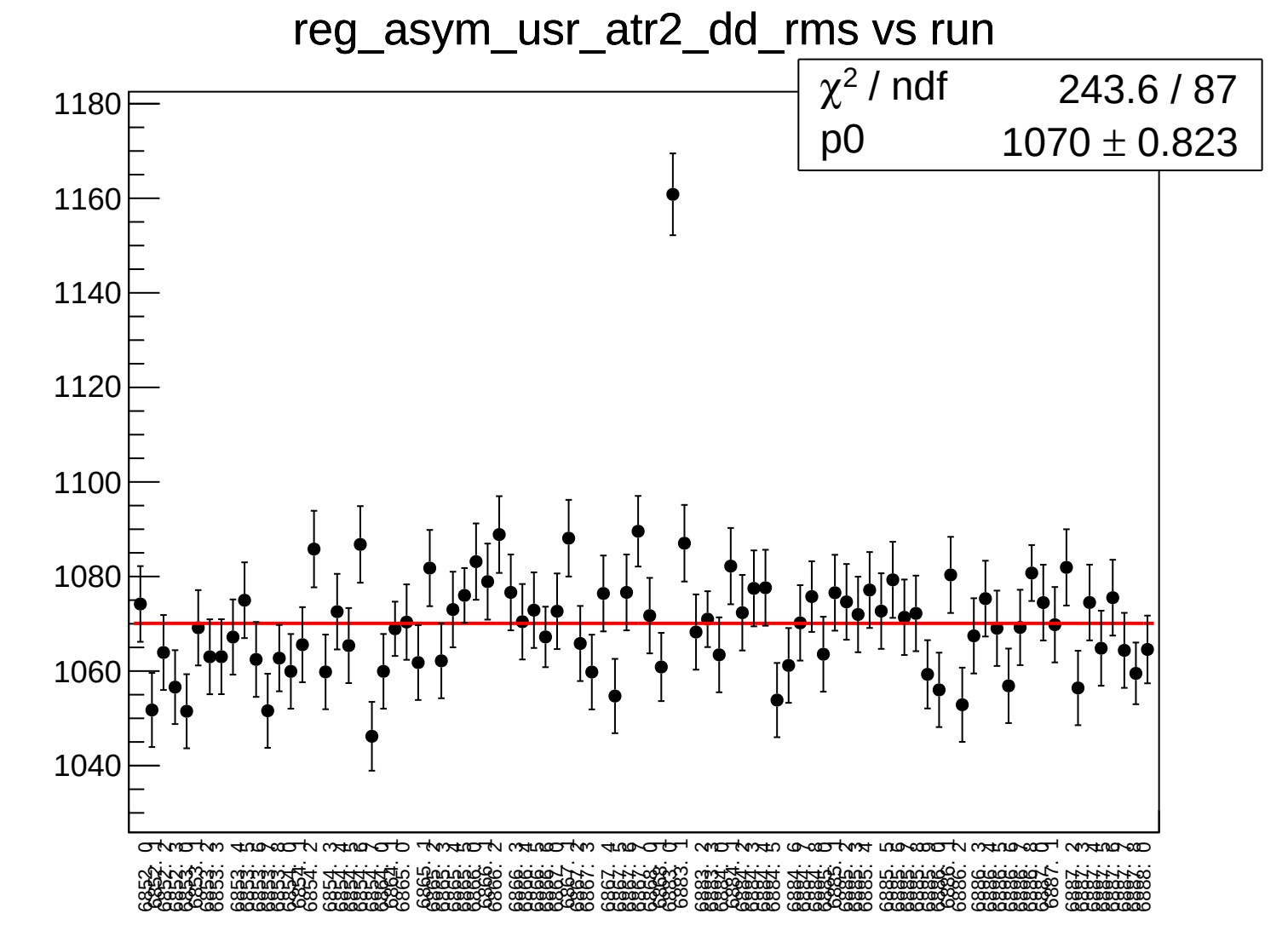

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.77 / 87
p0 −2.266e−13 ± 9.973e−14
pull
Entries 88
Mean 68.34
Std Dev 0

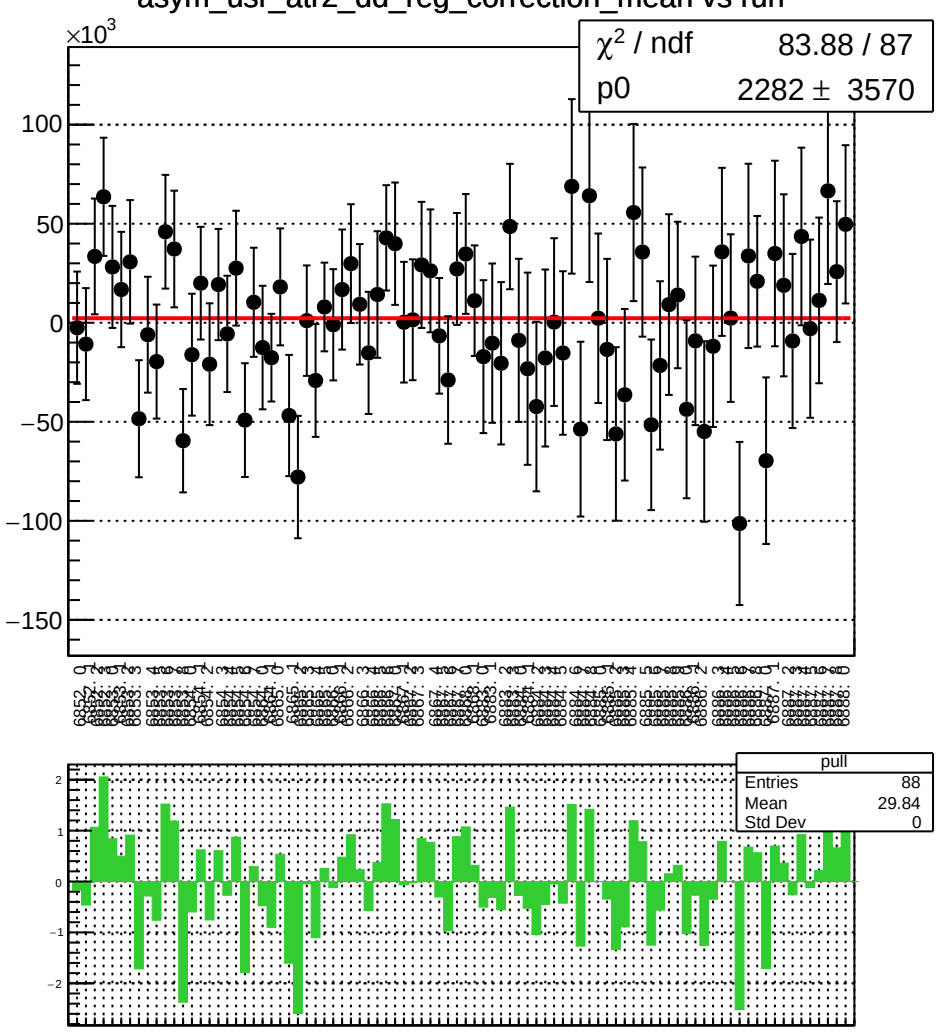

pull1D
Entries 88
Mean 0.07317
Std Dev 0.8346

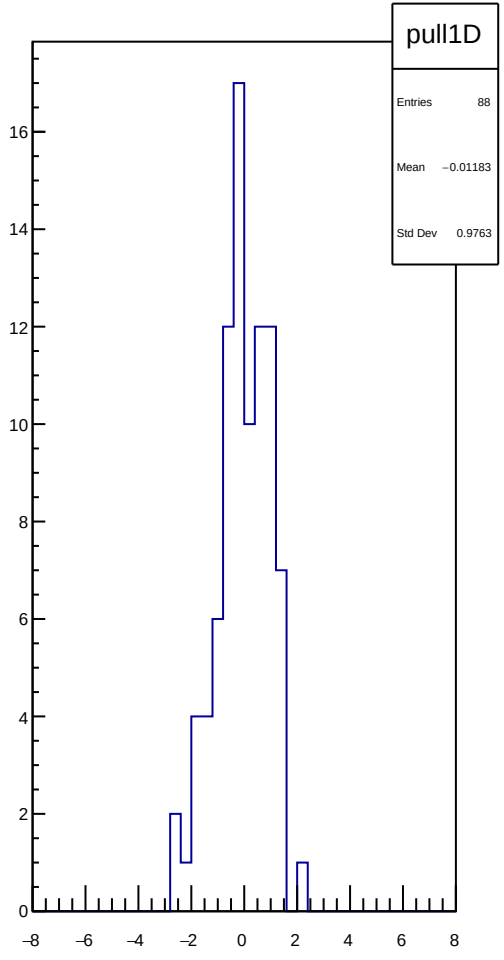

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.207e+05 / 87
p0 6.578e−11 ± 7.052e−14
0.6
0.5
0.4
0.3
0.2
0.1

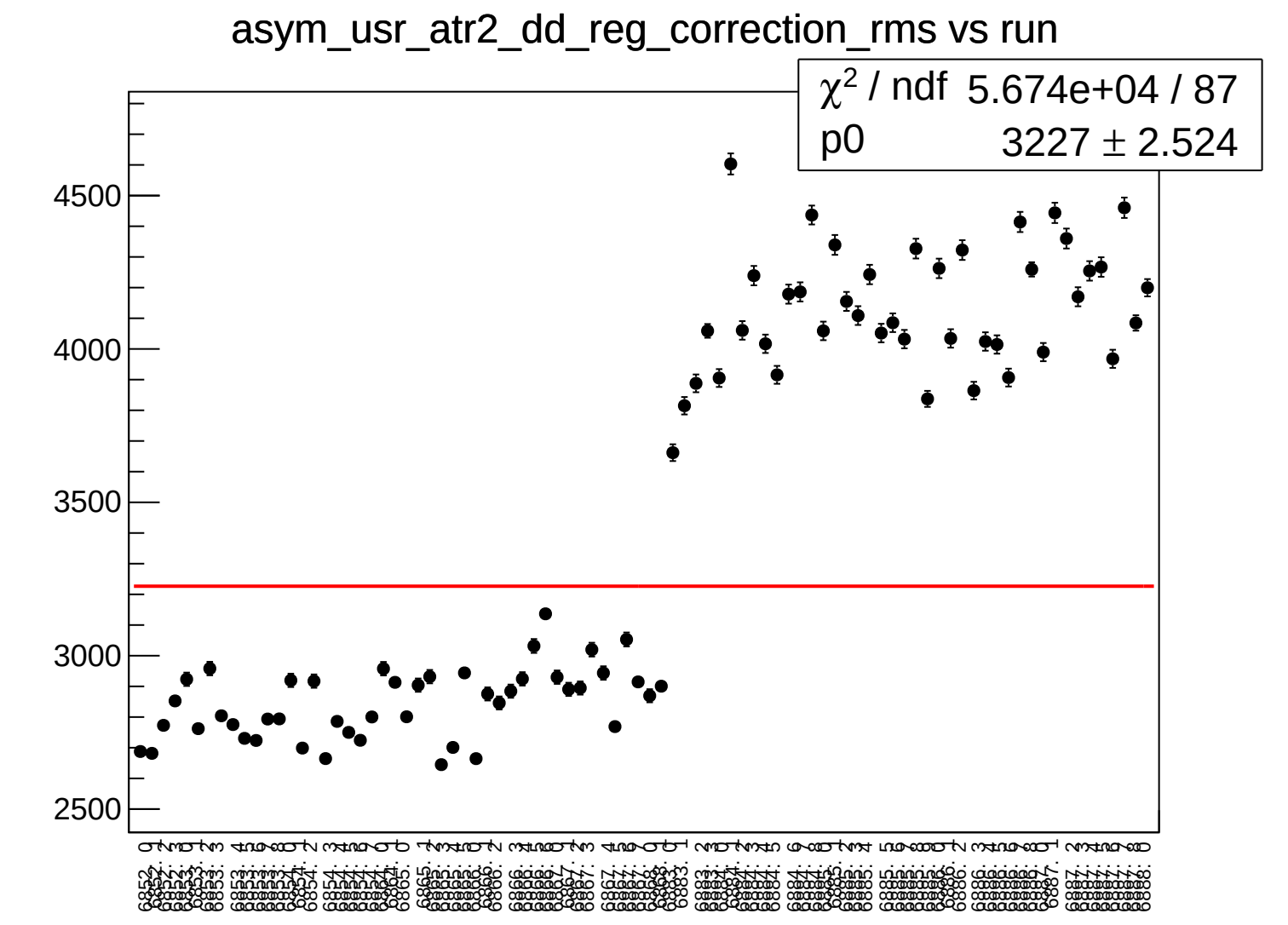

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 93.68 / 87
p0 528.1 ± 1164
pull
Entries 88
Mean 1.237e+04
Std Dev 0

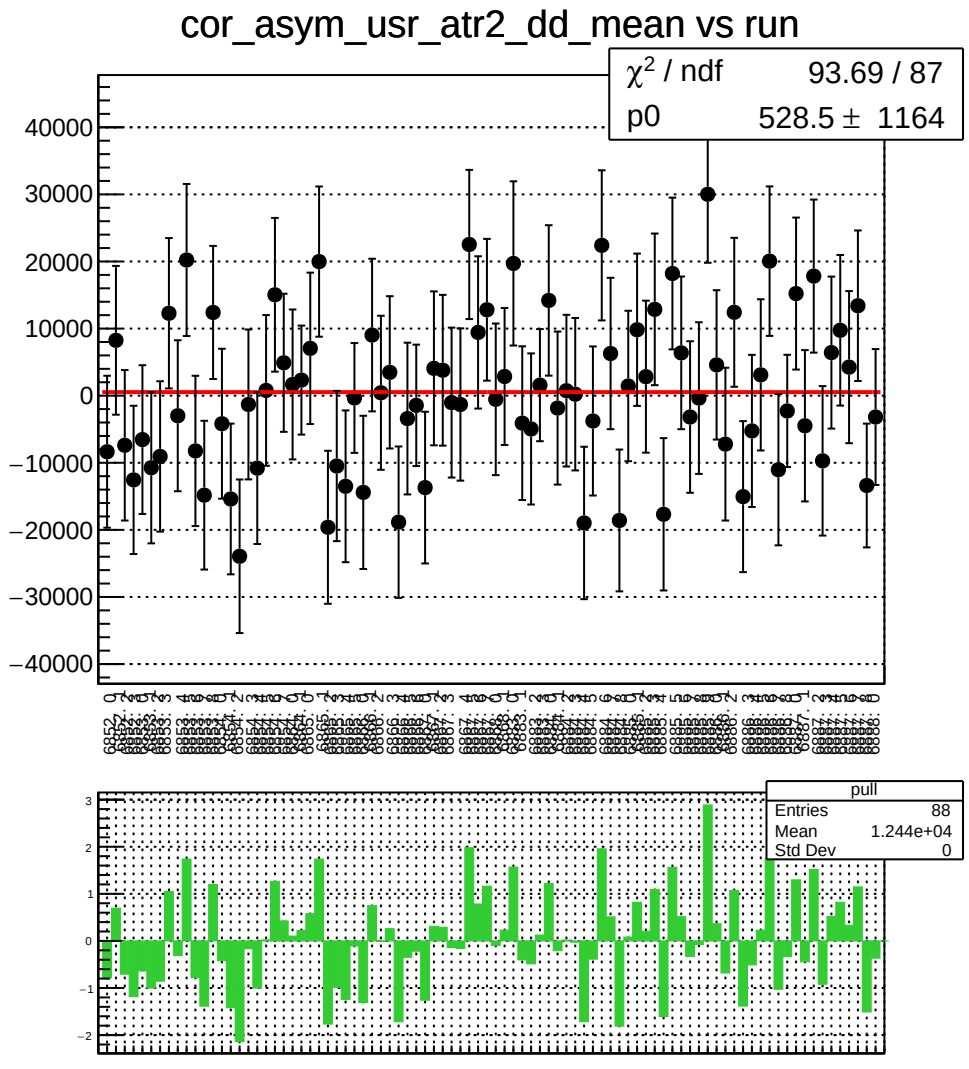

pull1D
Entries 88
Mean 0.0004122
Std Dev 1.032

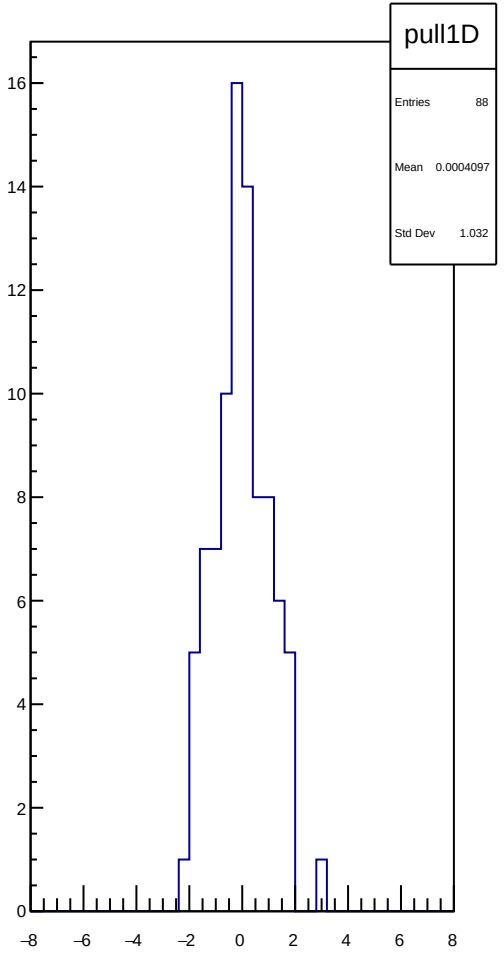

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 243.6 / 87
p0 1070 ± 0.823
1180
1160
1140
1120
1100
1080
1060
1040

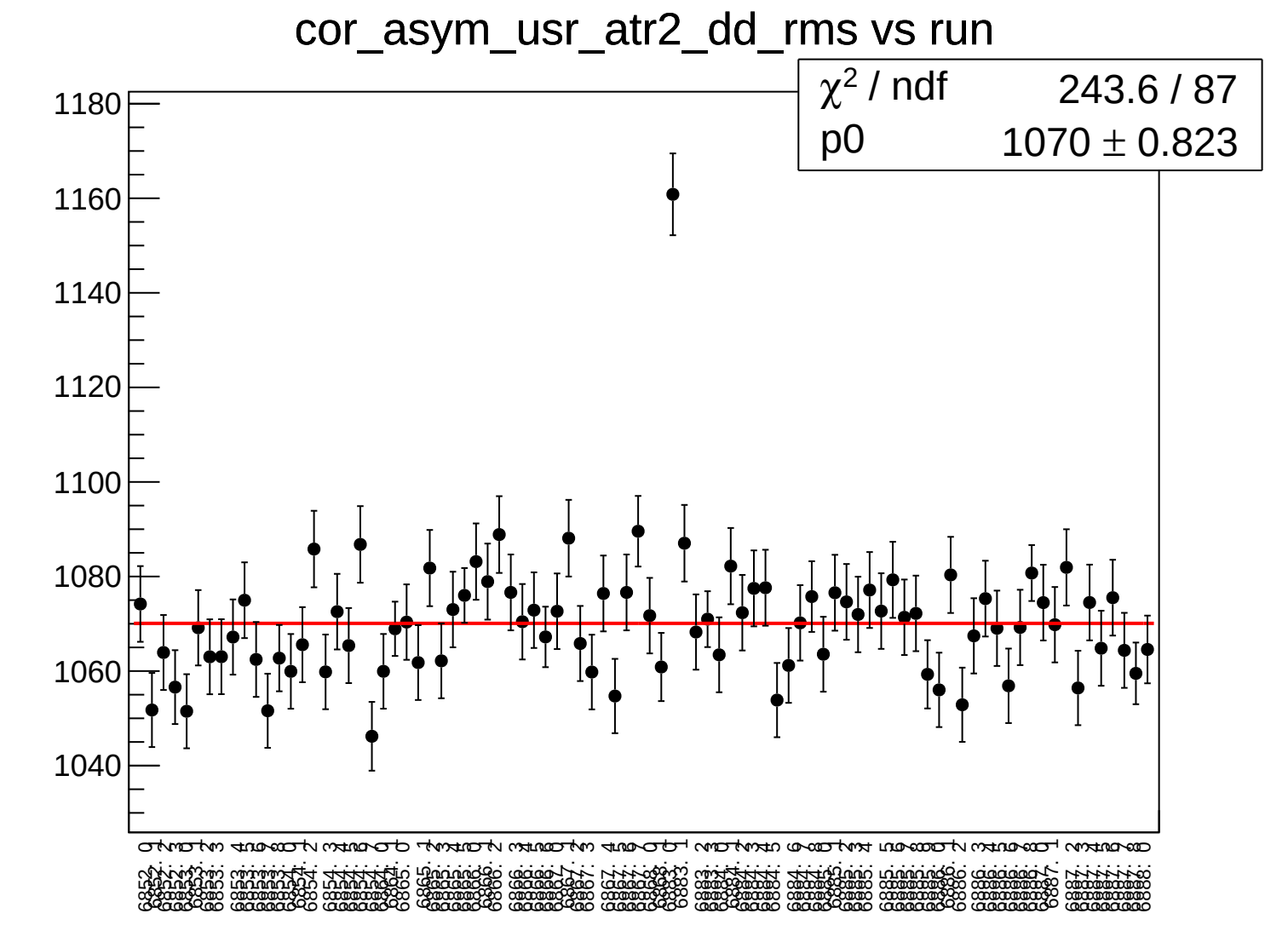

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 83.88 / 87
p0 2282 ± 3570
100
50
0
−50
−100
−150
pull
Entries 88
Mean 29.84
Std Dev 0
2
1
0
−1
−2

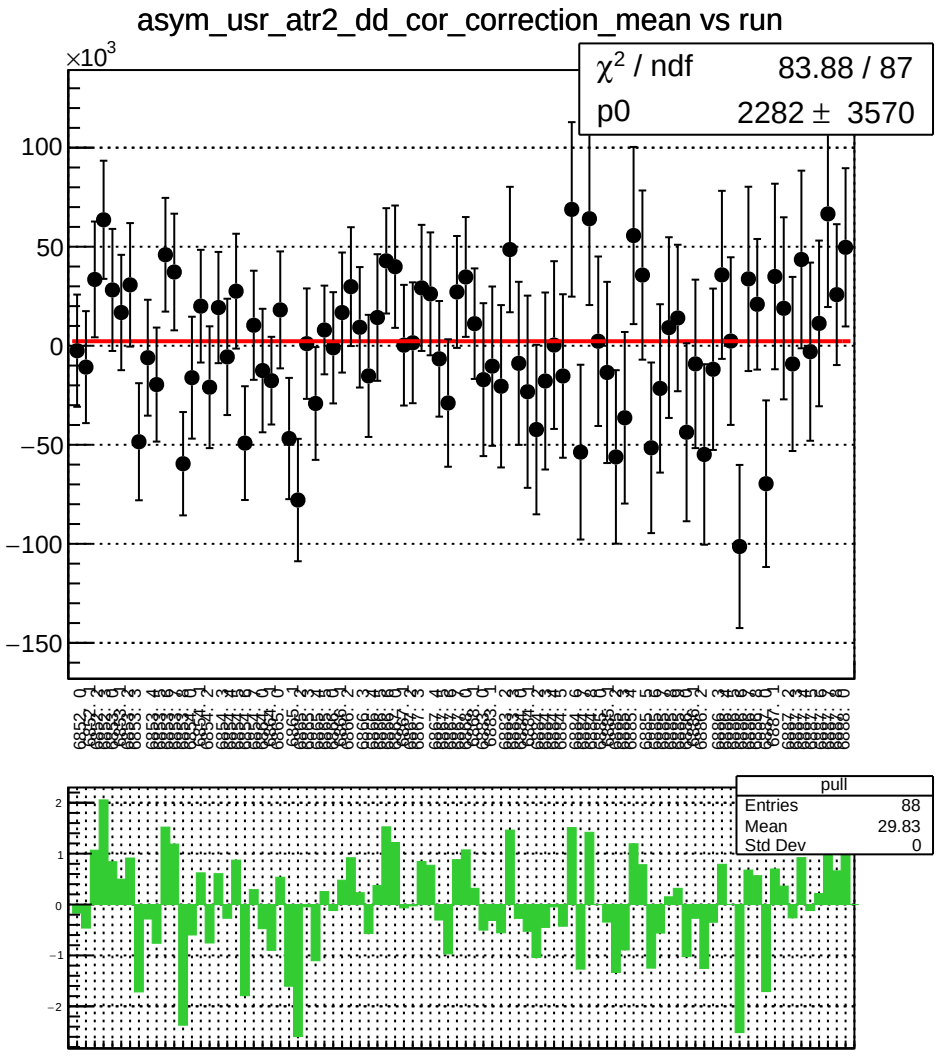

pull1D
Entries 88
Mean −0.01183
Std Dev 0.9763
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

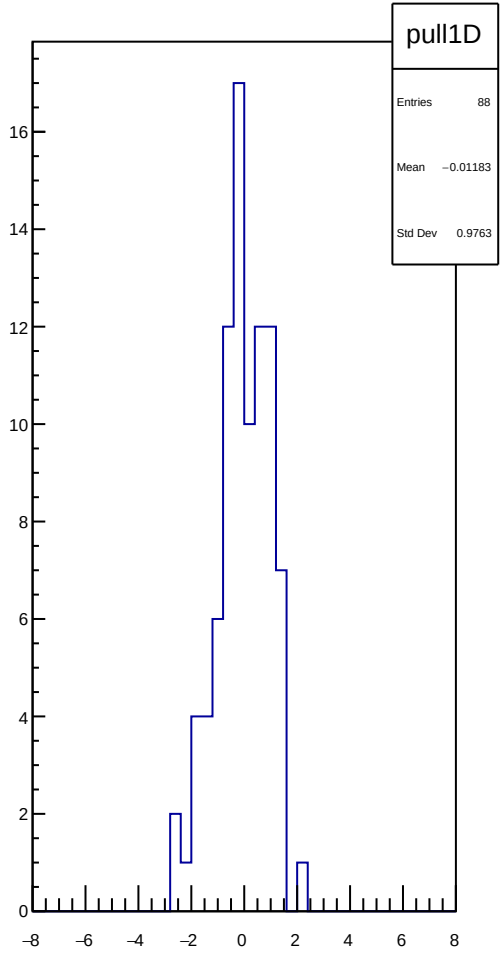

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 5.674e+04 / 87
p0 3227 ± 2.524
4500
4000
3500
3000
2500

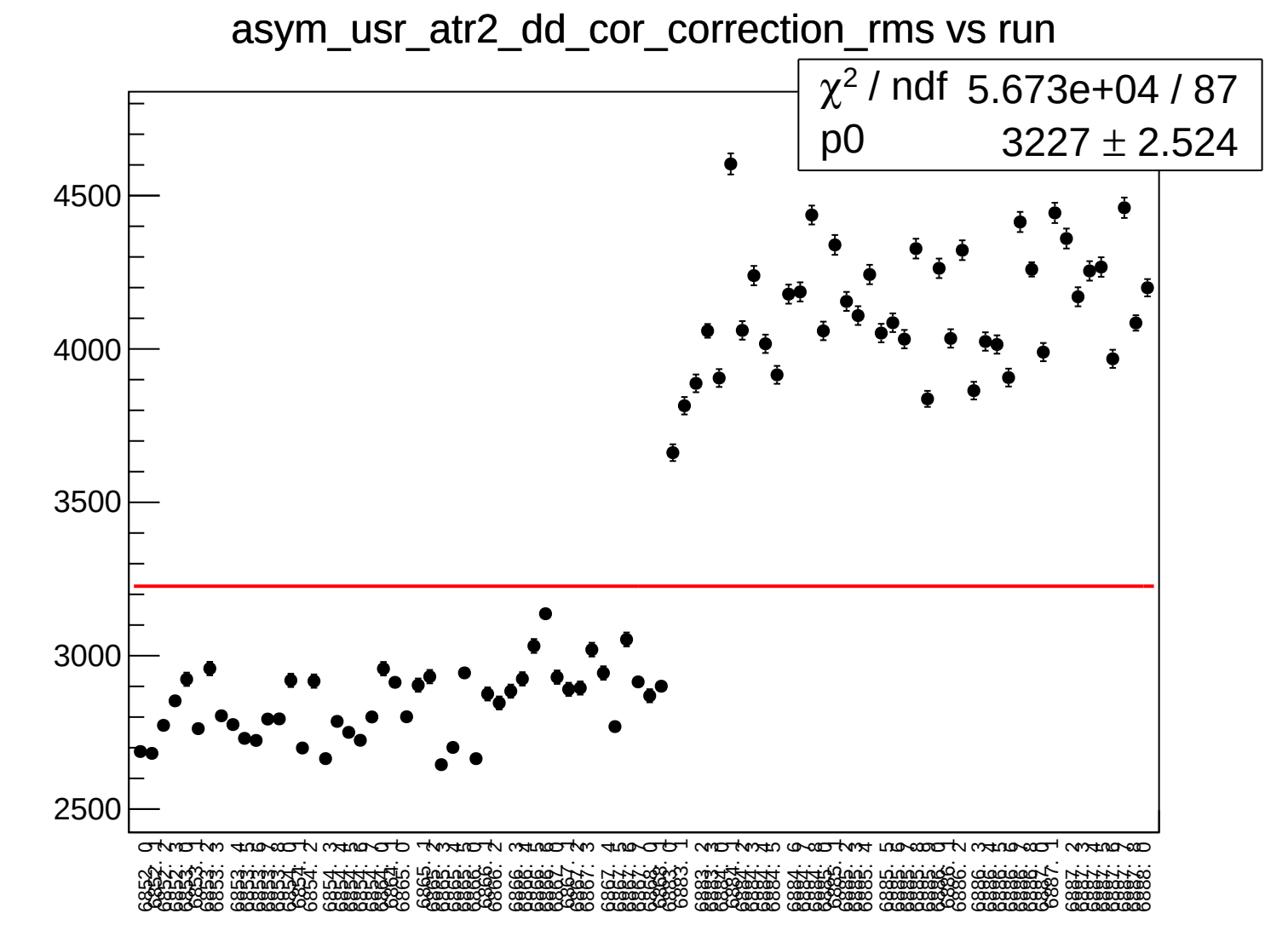

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 93.69 / 87
p0 528.5 ± 1164
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 1.244e+04
Std Dev 0
3
2
1
0
−1
−2

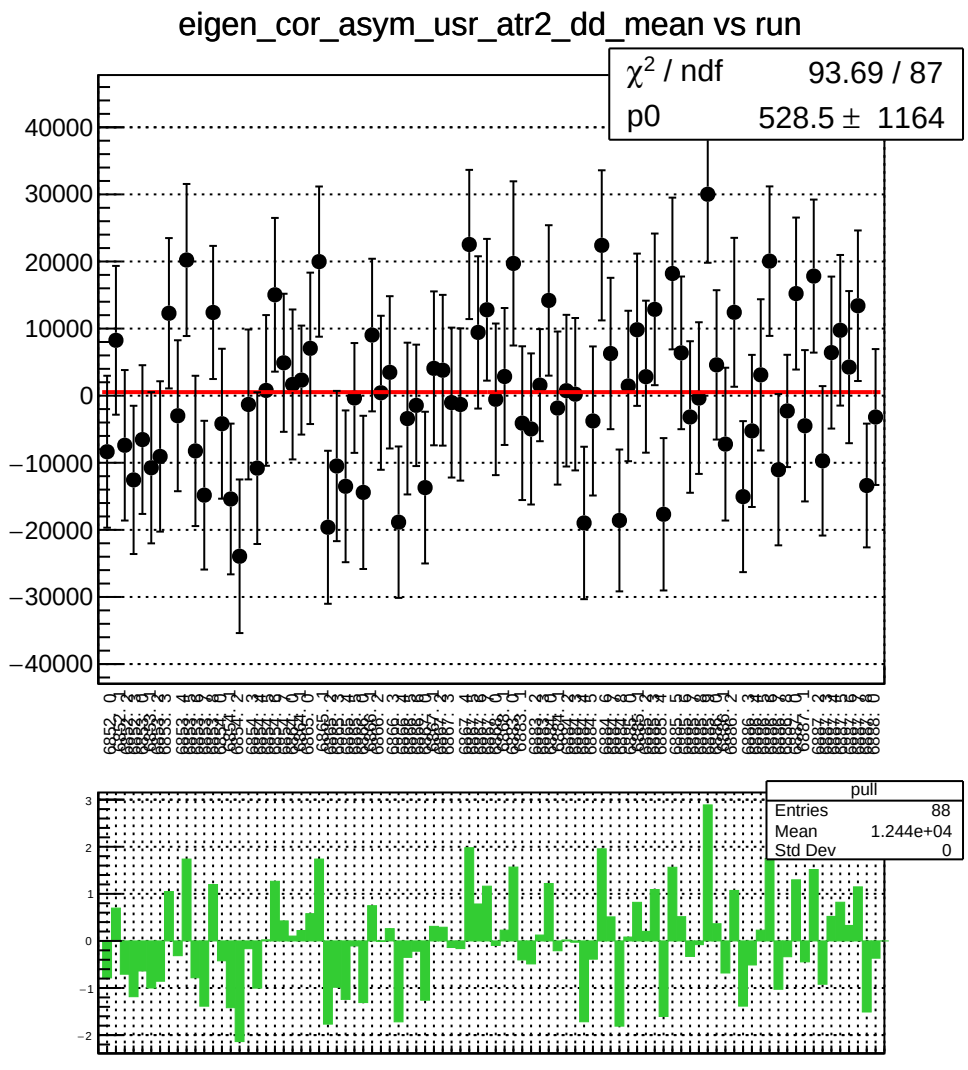

pull1D
Entries 88
Mean 0.0004097
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

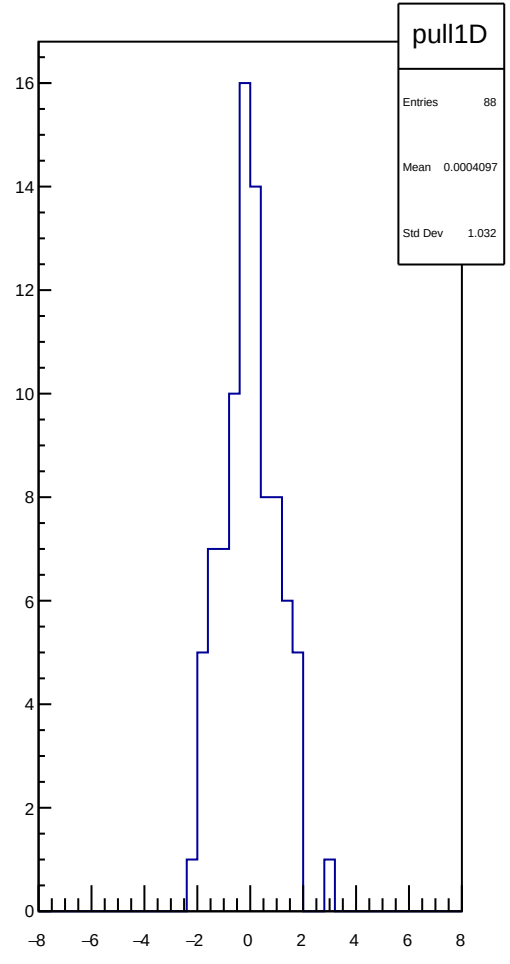

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 243.6 / 87
p0 1070 ± 0.823
1180
1160
1140
1120
1100
1080
1060
1040


asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 83.88 / 87
p0 2282 ± 3570
100
50
0
−50
−100
−150
pull
Entries 88
Mean 29.83
Std Dev 0
2
1
0
−1
−2

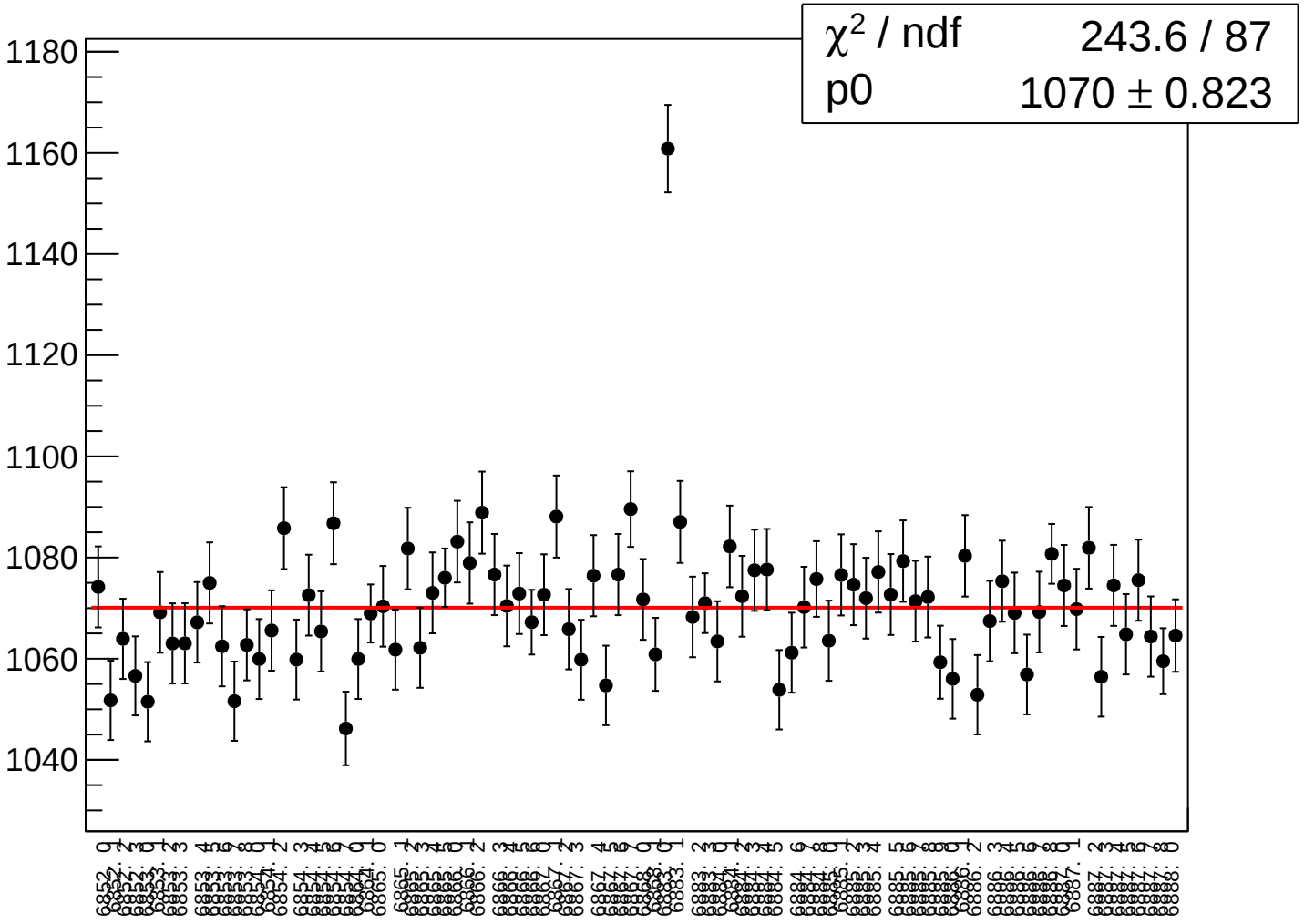

pull1D
Entries 88
Mean −0.01183
Std Dev 0.9763
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

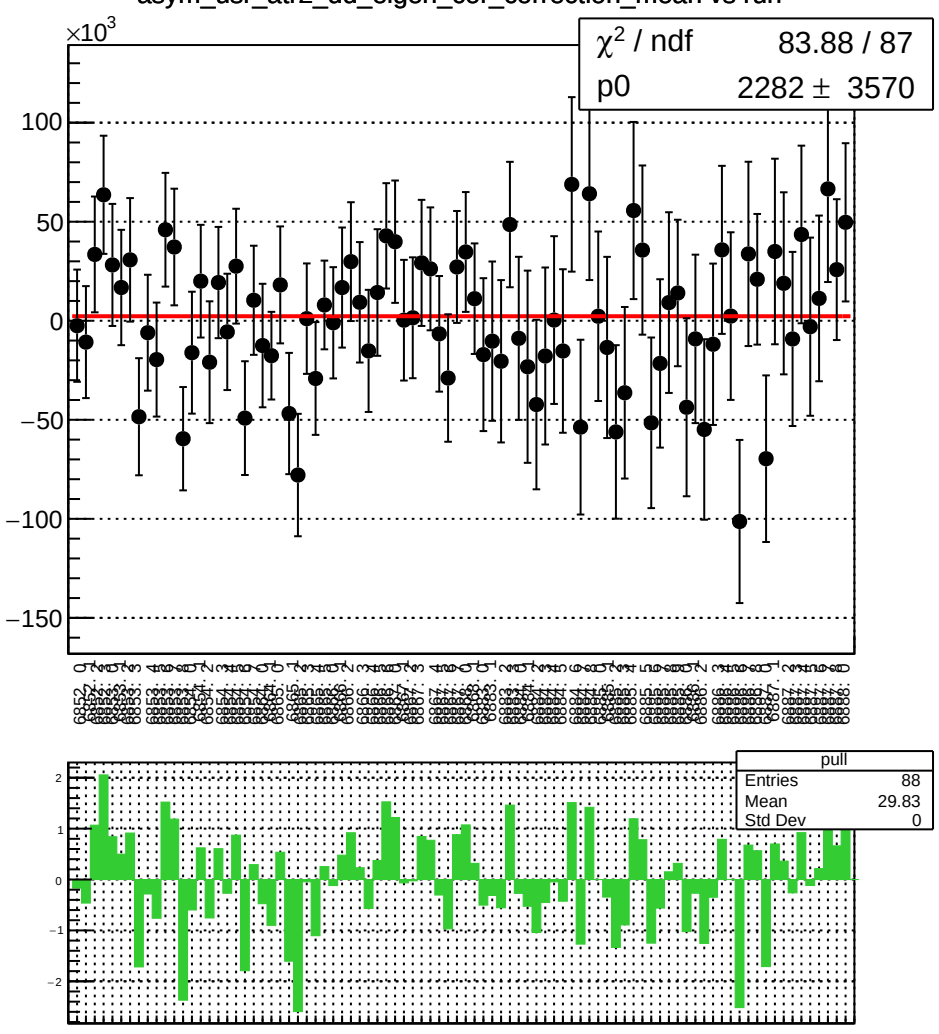

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 5.673e+04 / 87
p0 3227 ± 2.524
4500
4000
3500
3000
2500

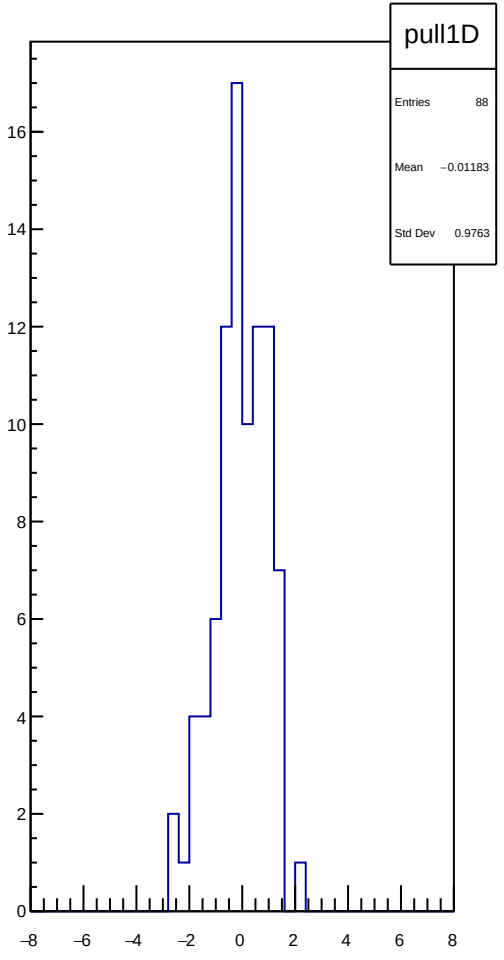

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 93.69 / 87
p0 528.5 ± 1164
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 1.244e+04
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.0004097
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

eigen_cor_asym_usr_atr2_dd_rms vs run




asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.88 / 87
p0 2282 ± 3570
100
50
0
−50
−100
−150
pull
Entries 88
Mean 29.83
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.01183
Std Dev 0.9763
16
14
12
10
8
6
4
2
0
−8
−6
−4
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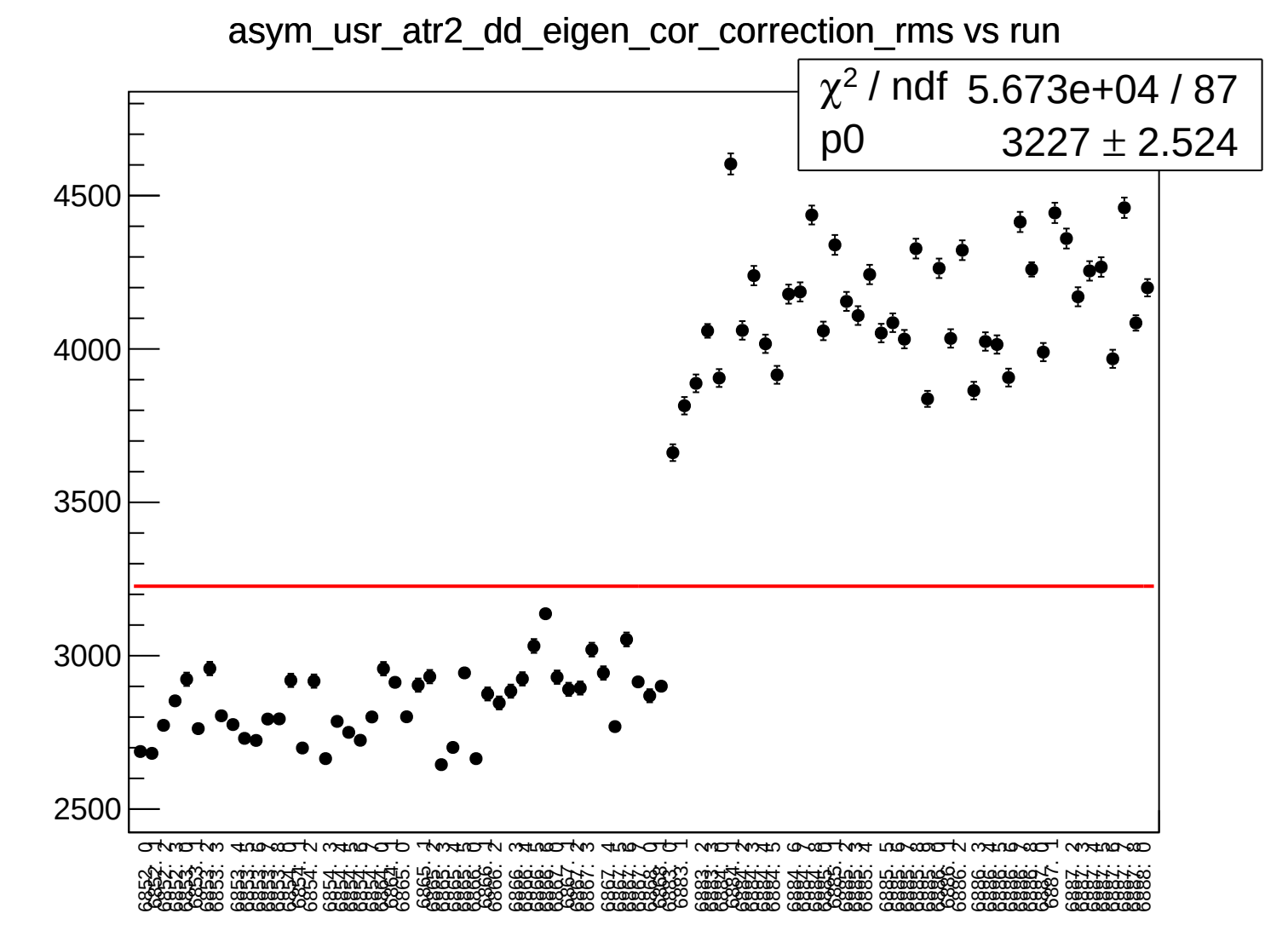
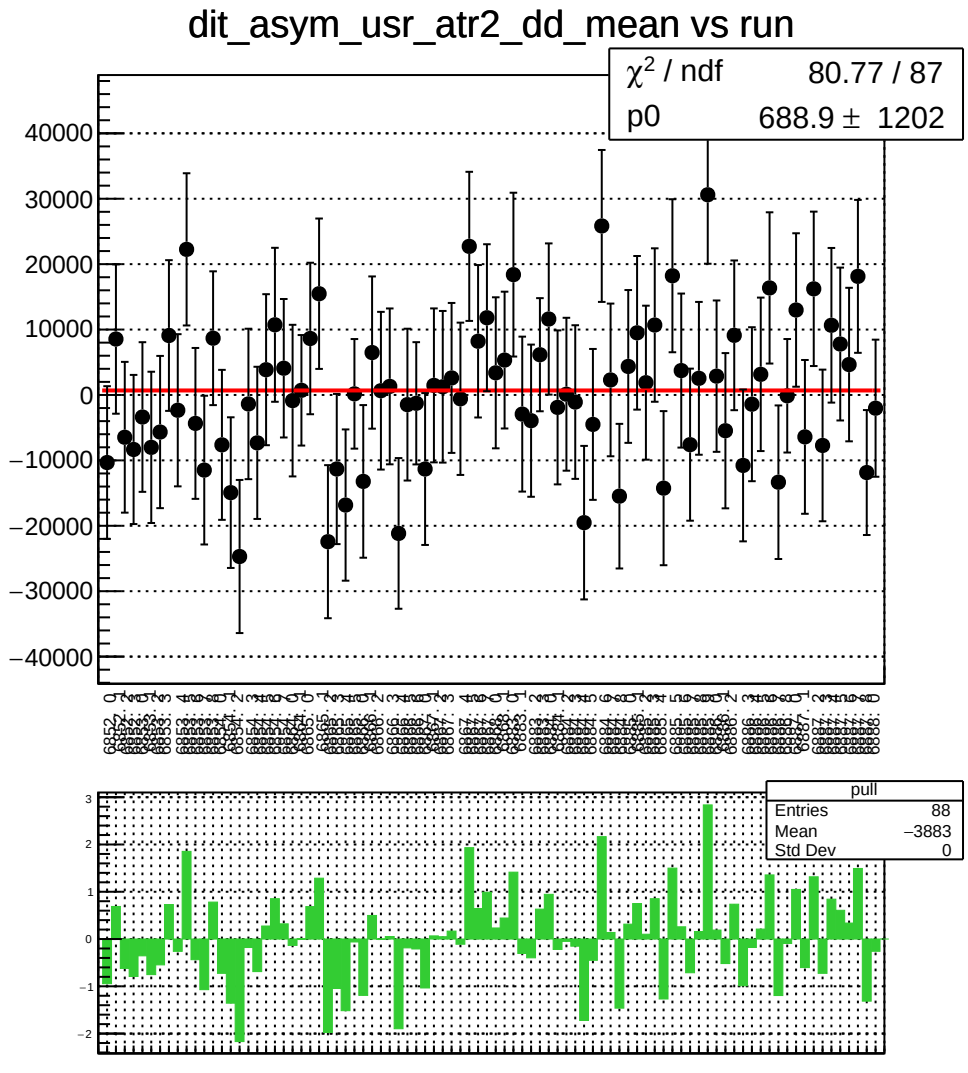
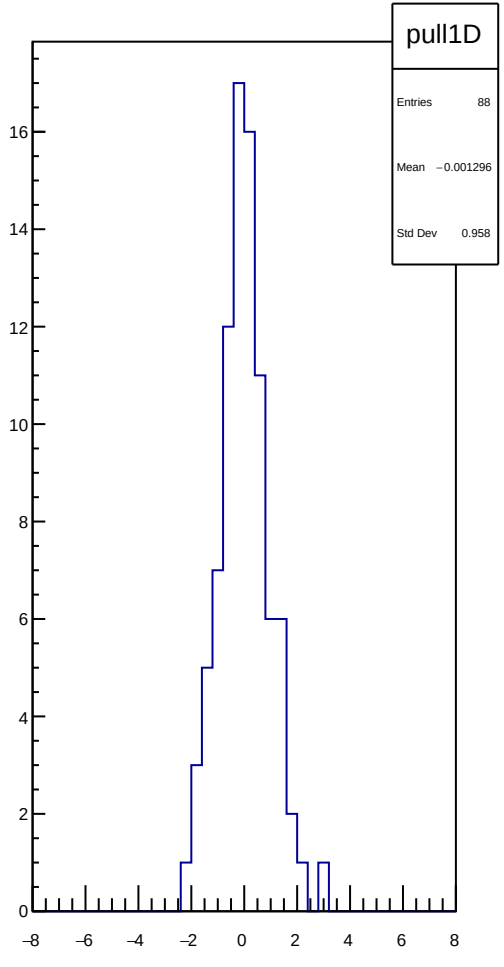
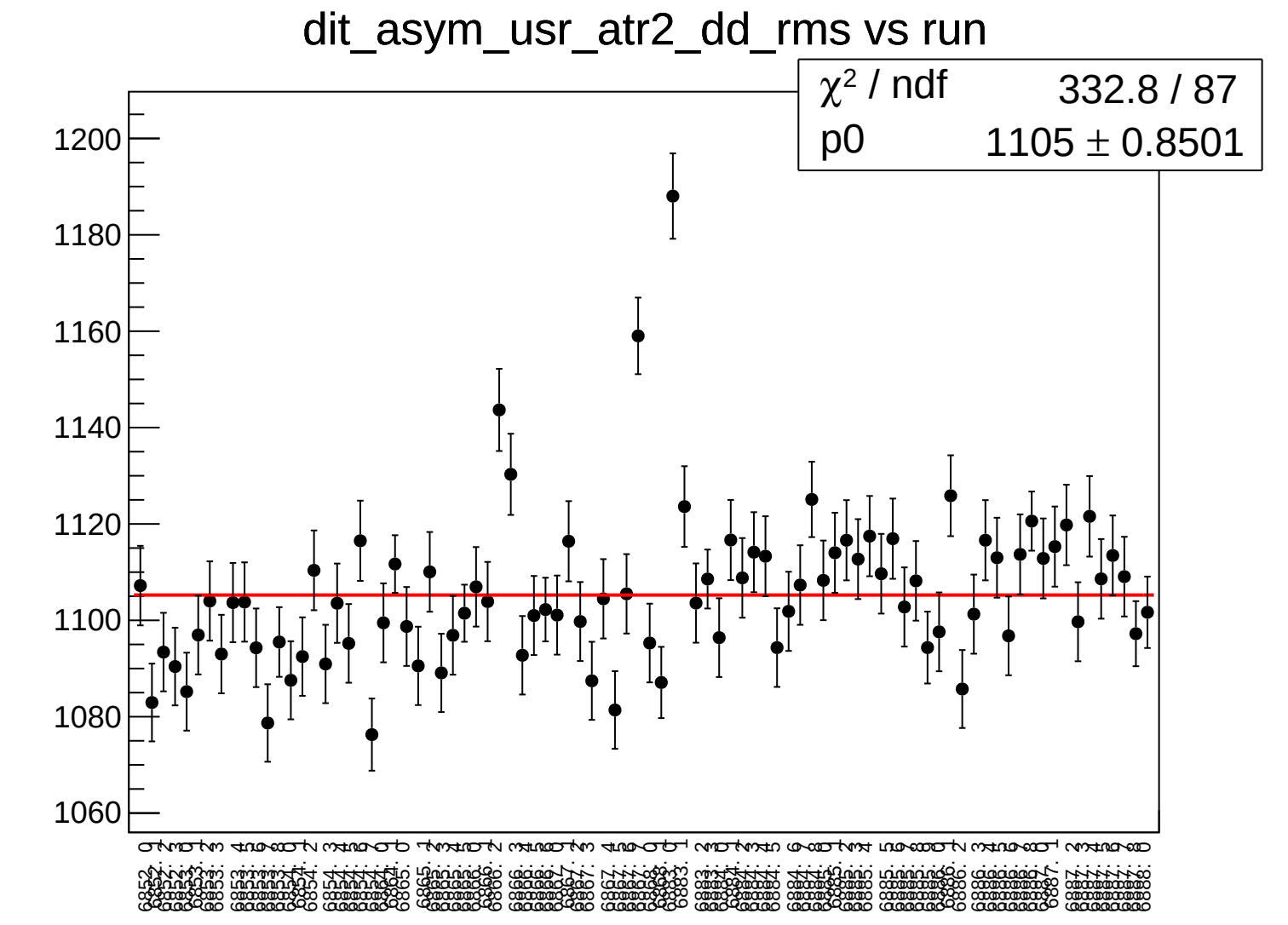
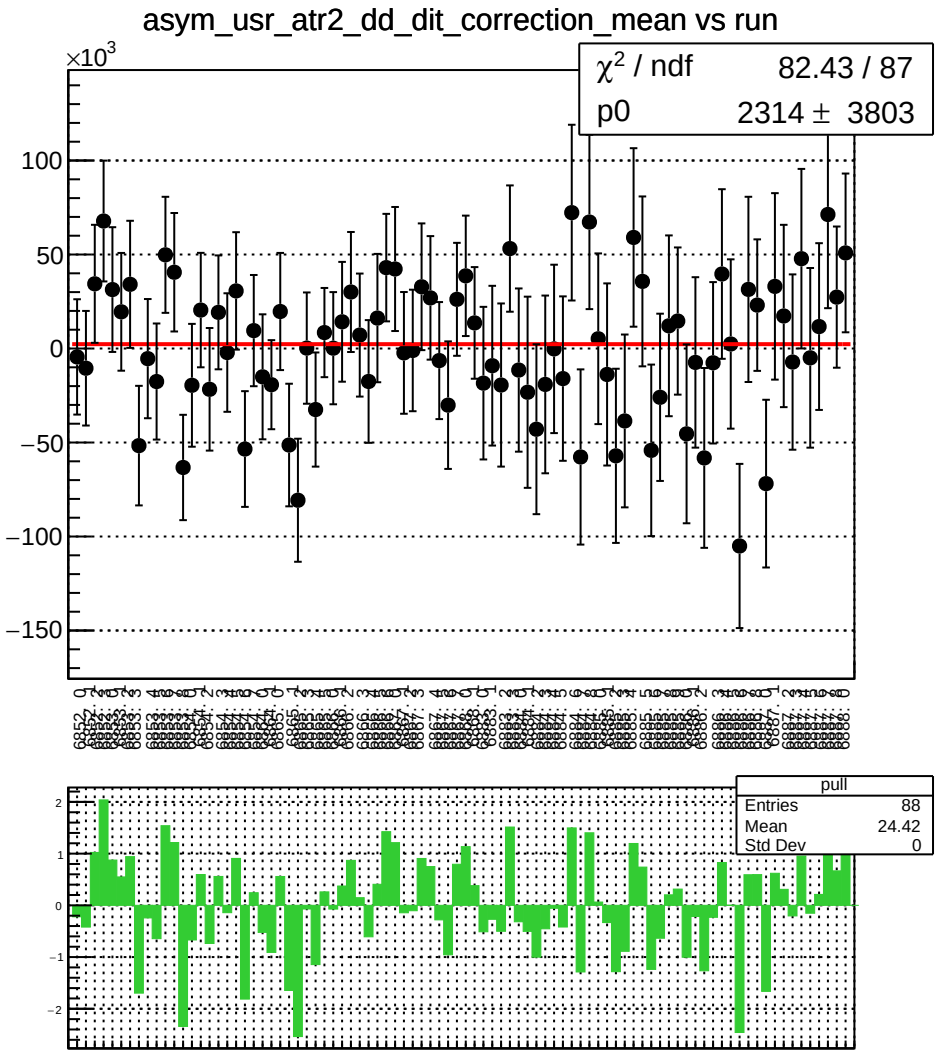
0
2
4
6
8

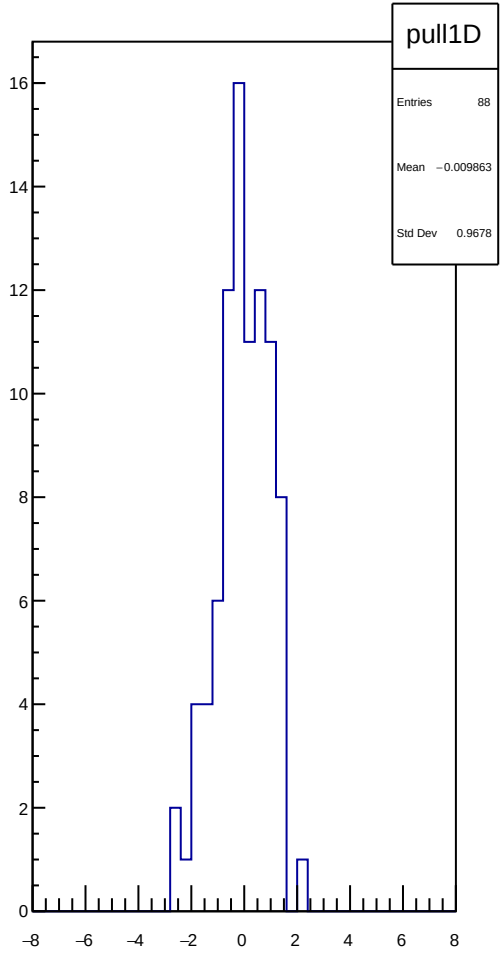

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.673e+04 / 87
p0 3227 ± 2.524
4500
4000
3500
3000
2500

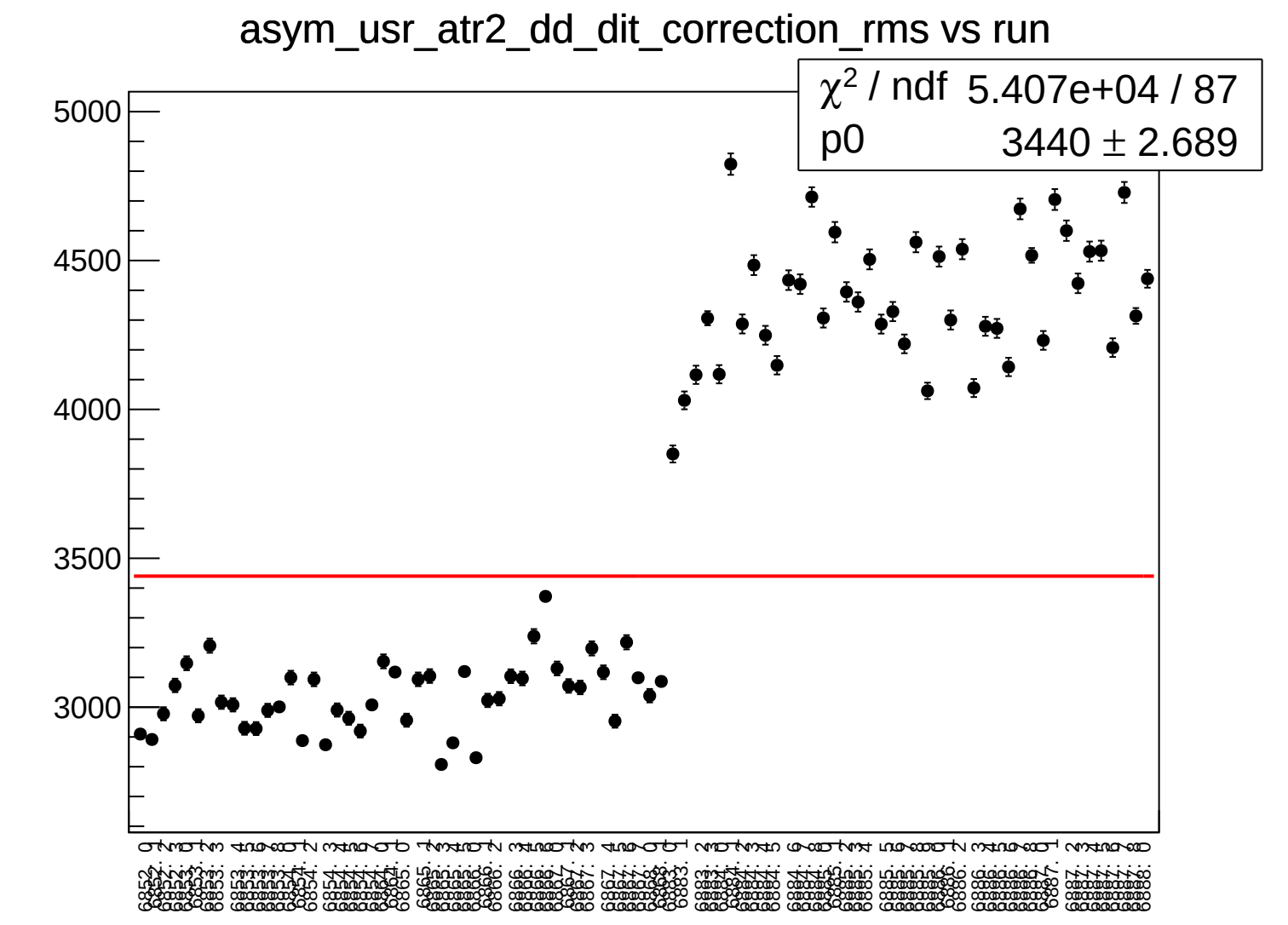

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 80.77 / 87
p0 688.9 ± 1202
pull
Entries 88
Mean −3883
Std Dev 0

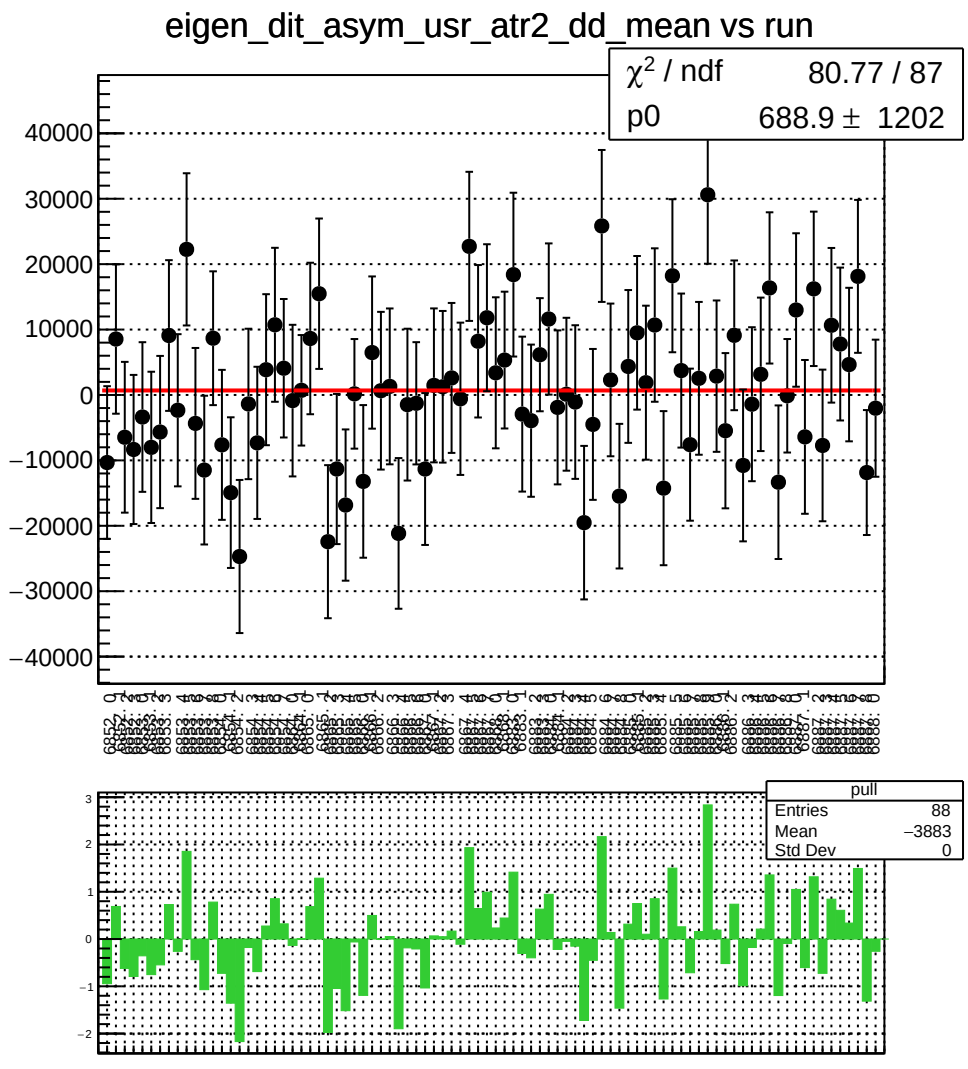

pull1D
Entries 88
Mean −0.001296
Std Dev 0.958

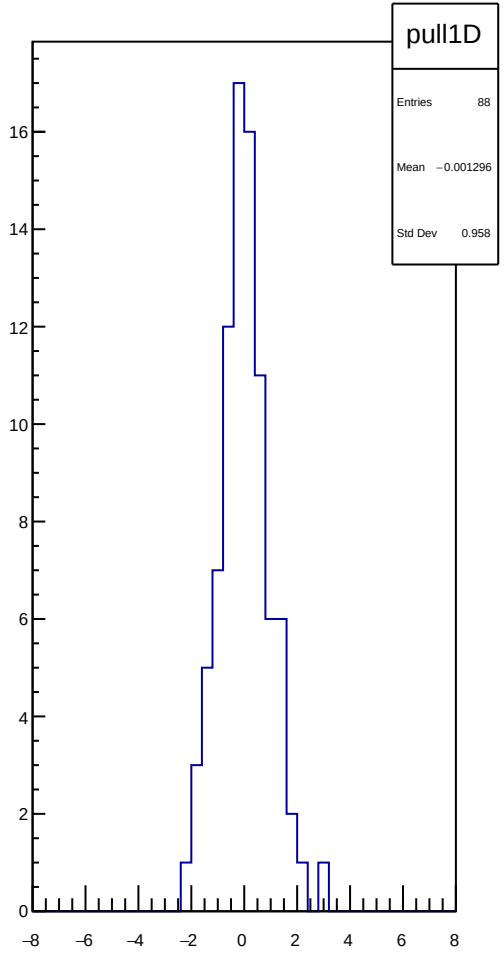

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 332.8 / 87
p0 1105 ± 0.8501
1200
1180
1160
1140
1120
1100
1080
1060

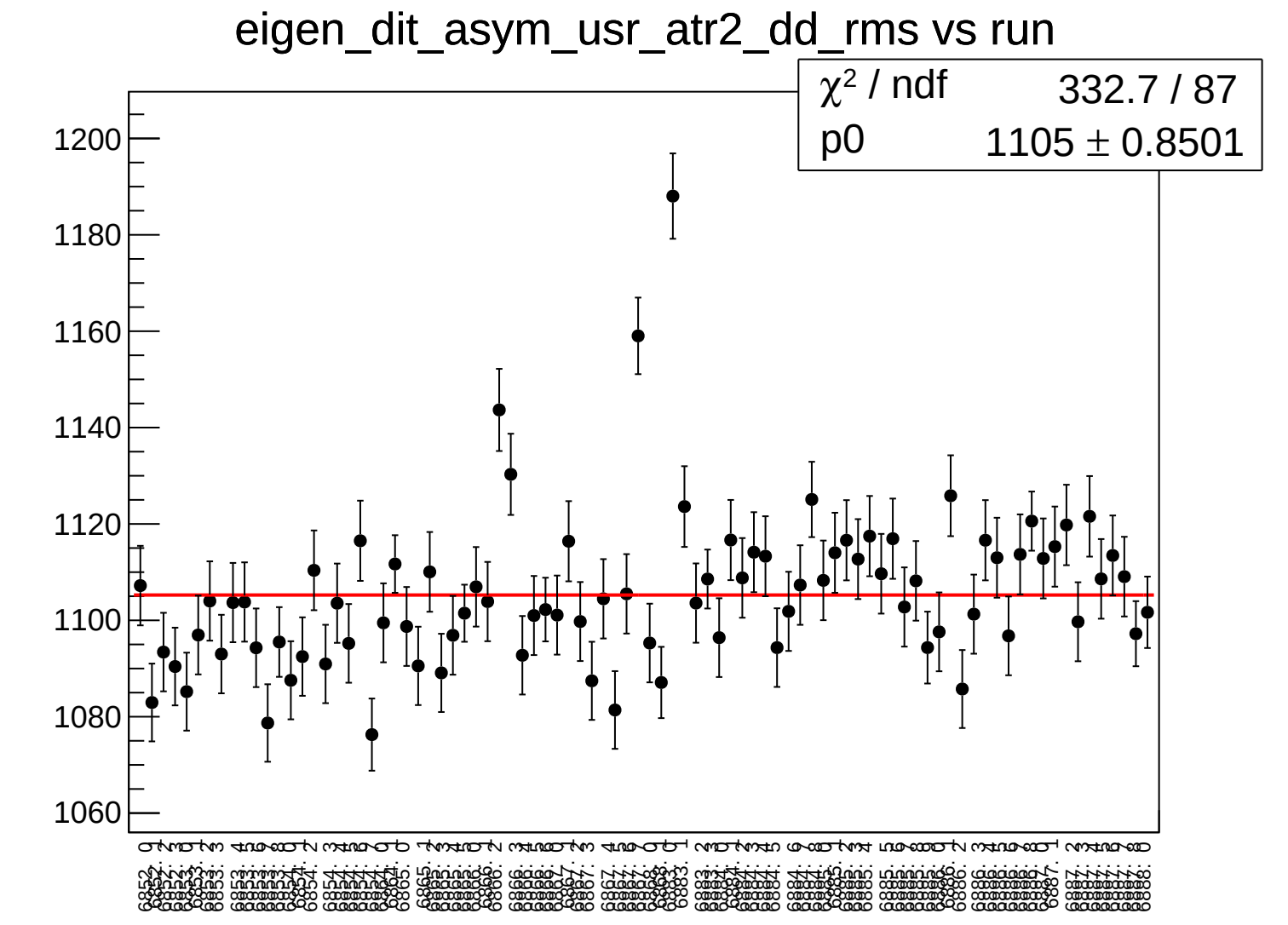

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.43 / 87
p0 2314 ± 3803
100
50
0
−50
−100
−150
pull
Entries 88
Mean 24.42
Std Dev 0
2
1
0
−1
−2

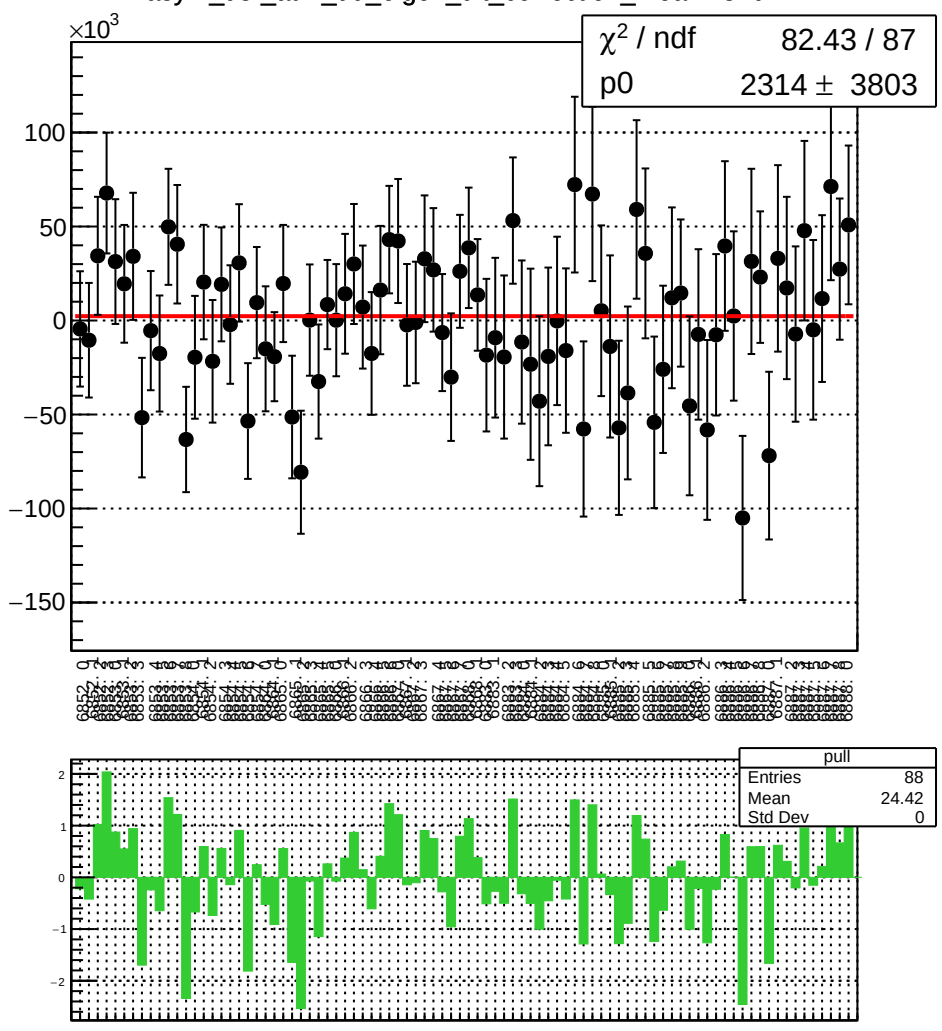

pull1D
Entries 88
Mean −0.009863
Std Dev 0.9678
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

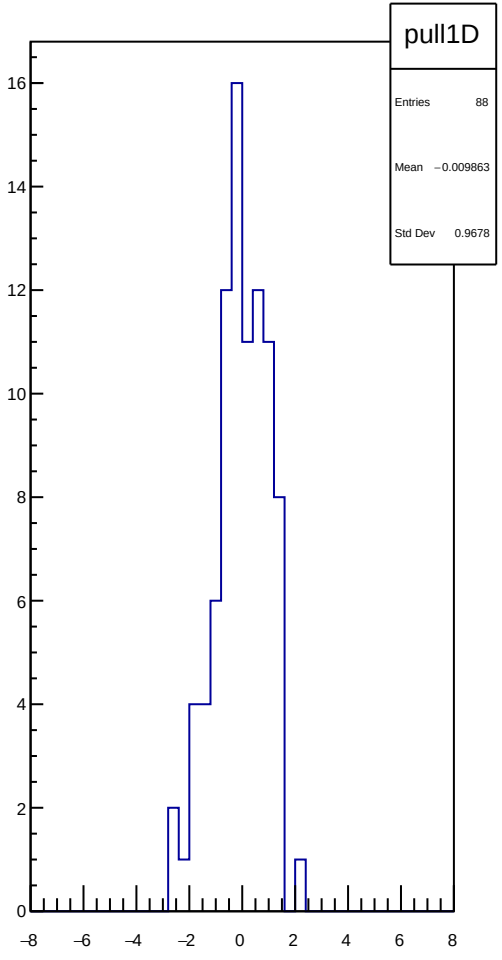

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 5.407e+04 / 87
p0 3440 ± 2.689
5000
4500
4000
3500
3000

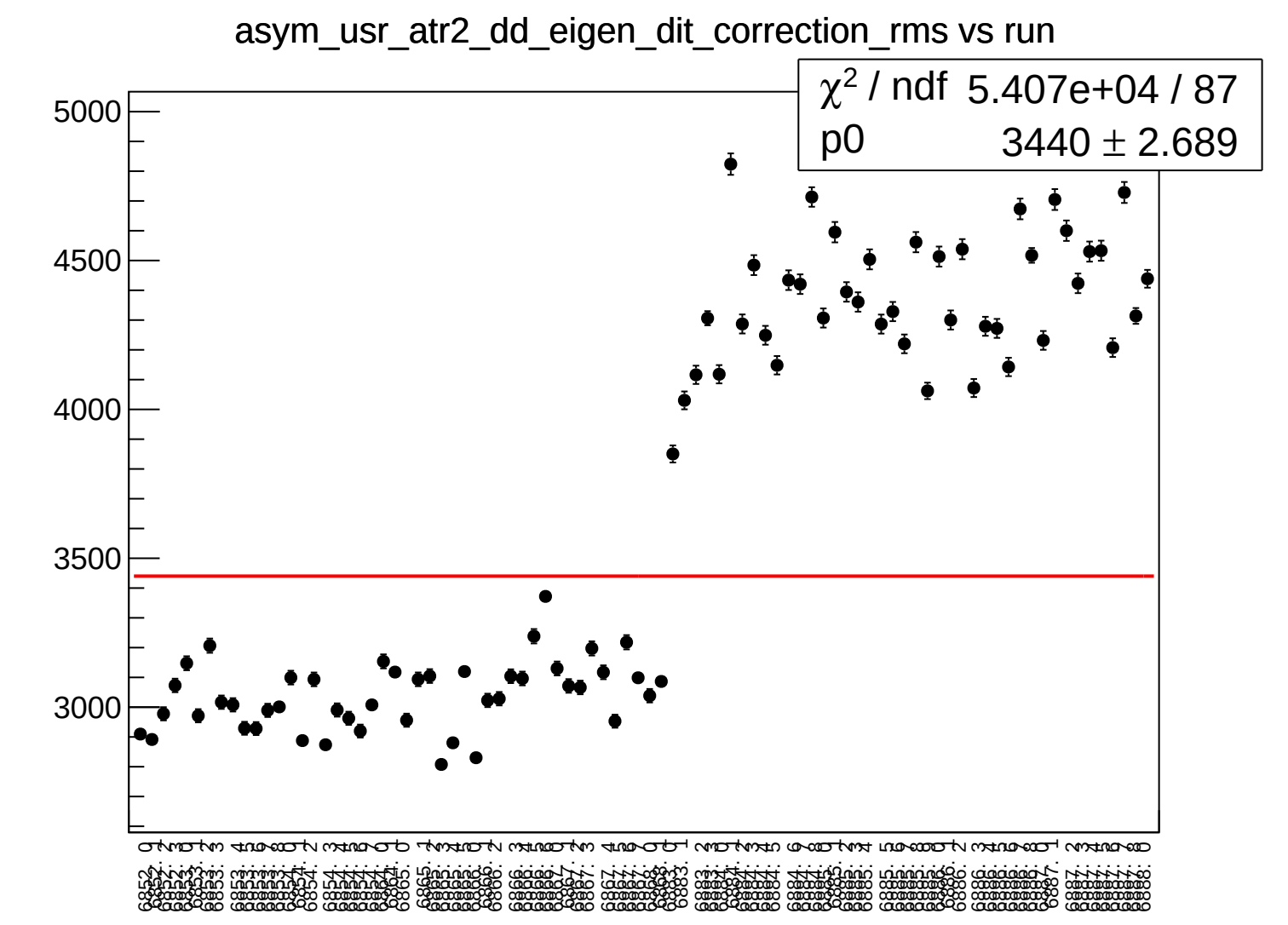

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 80.77 / 87
p0 688.9 ± 1202
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean −3883
Std Dev 0
3
2
1
0
−1
−2

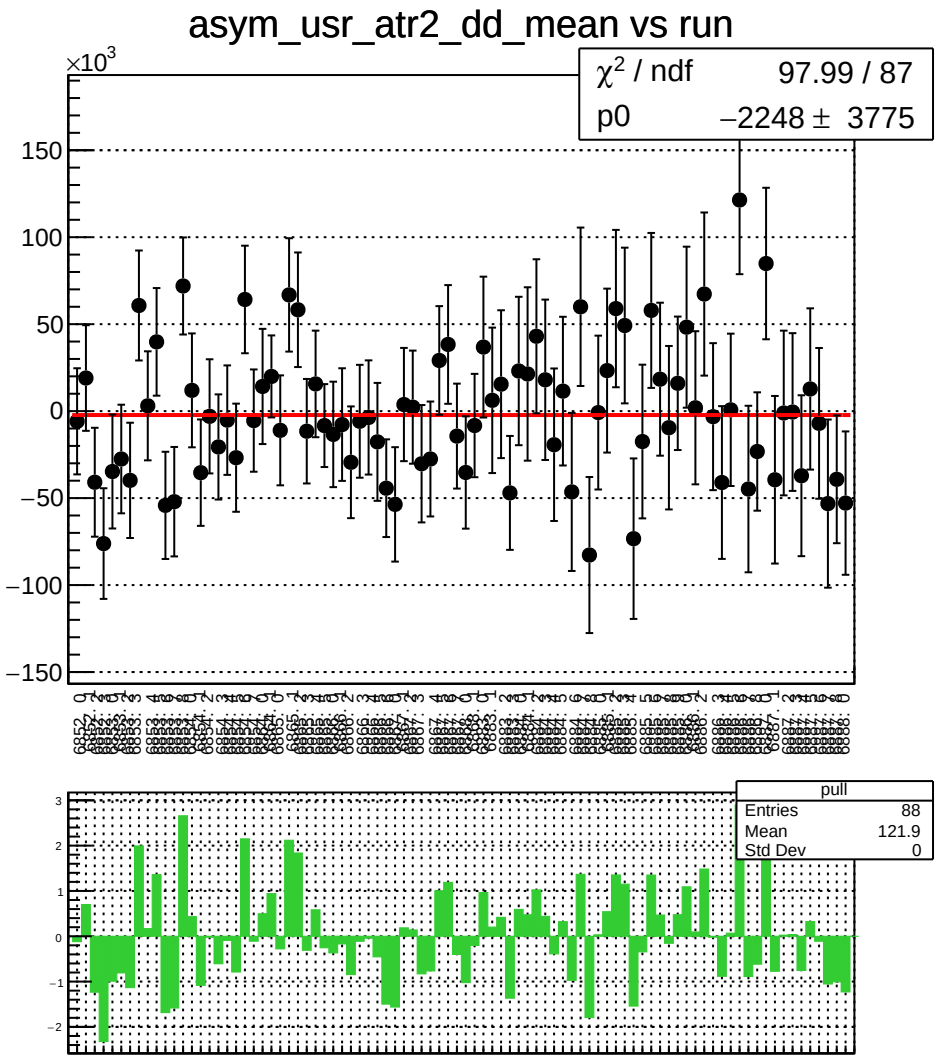

pull1D
Entries 88
Mean −0.001296
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

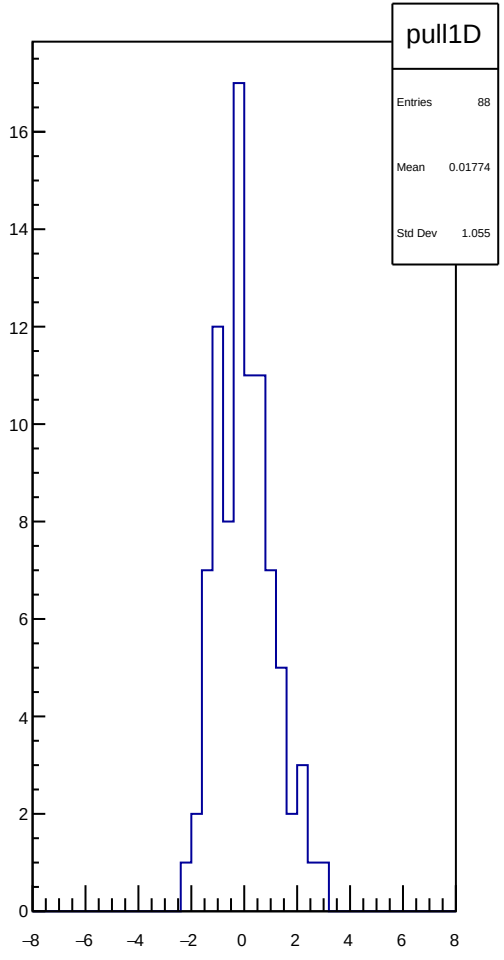

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 332.7 / 87
p0 1105 ± 0.8501
1200
1180
1160
1140
1120
1100
1080
1060

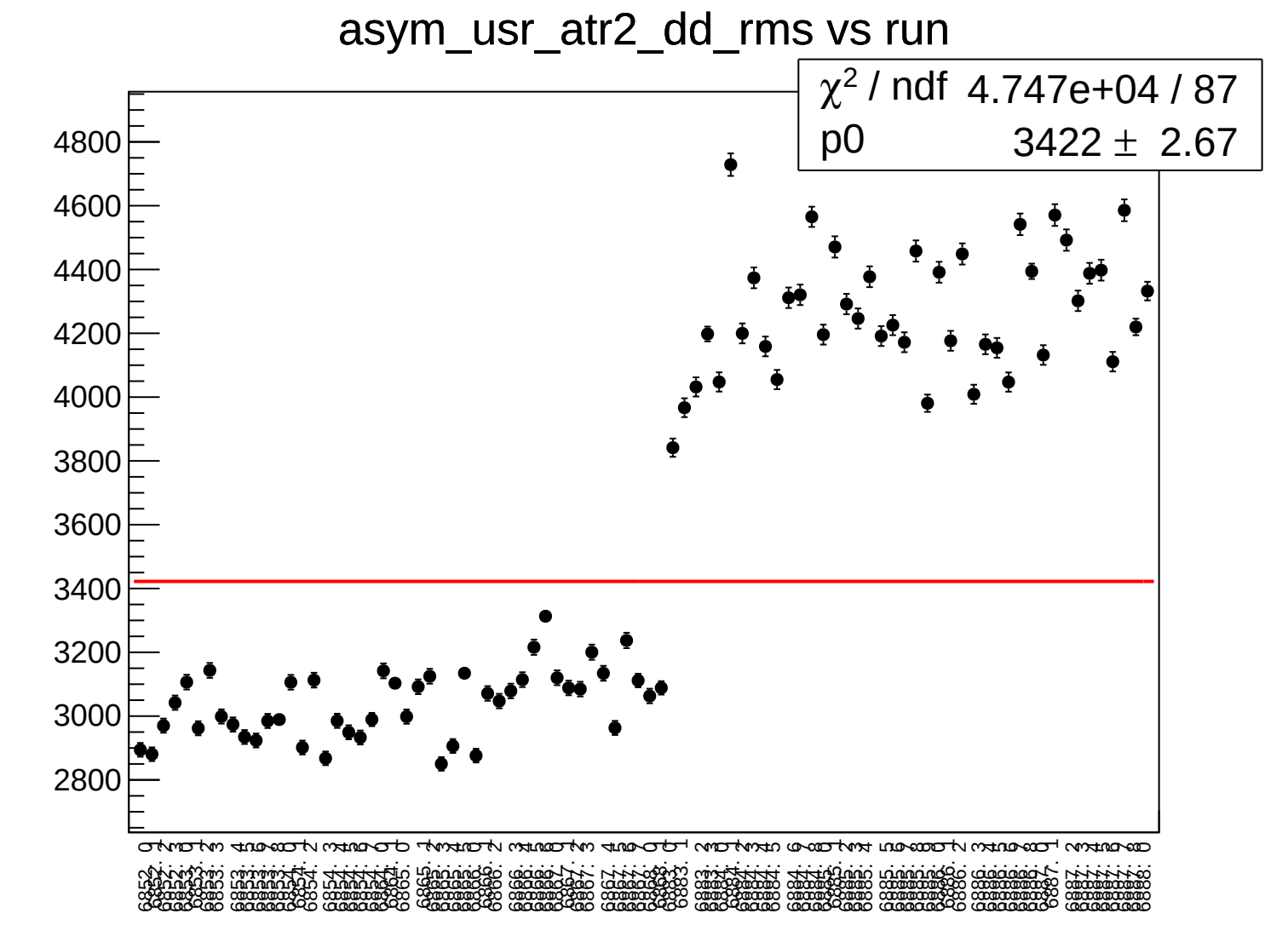

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.43 / 87
p0 2314 ± 3803
100
50
0
−50
−100
−150
pull
Entries 88
Mean 24.42
Std Dev 0
2
1
0
−1
−2

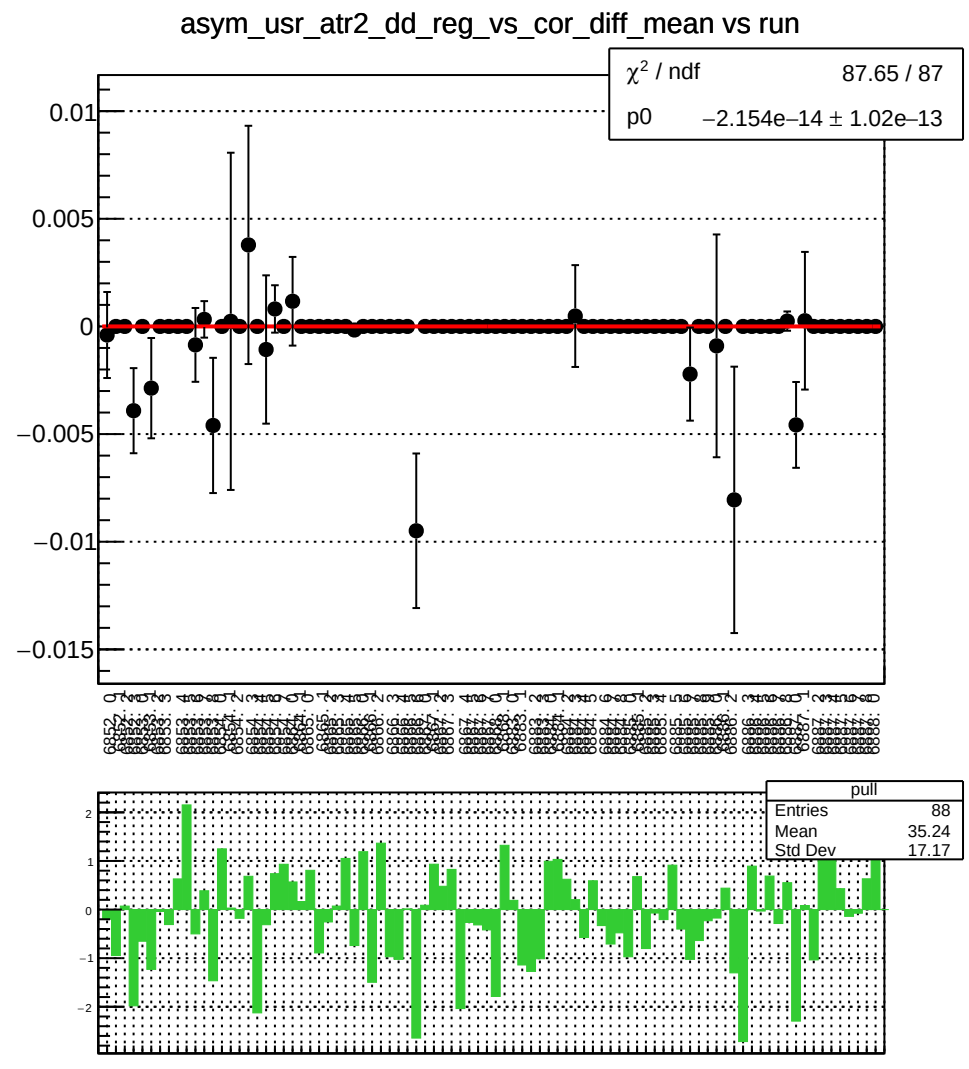

pull1D
Entries 88
Mean −0.009863
Std Dev 0.9678
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

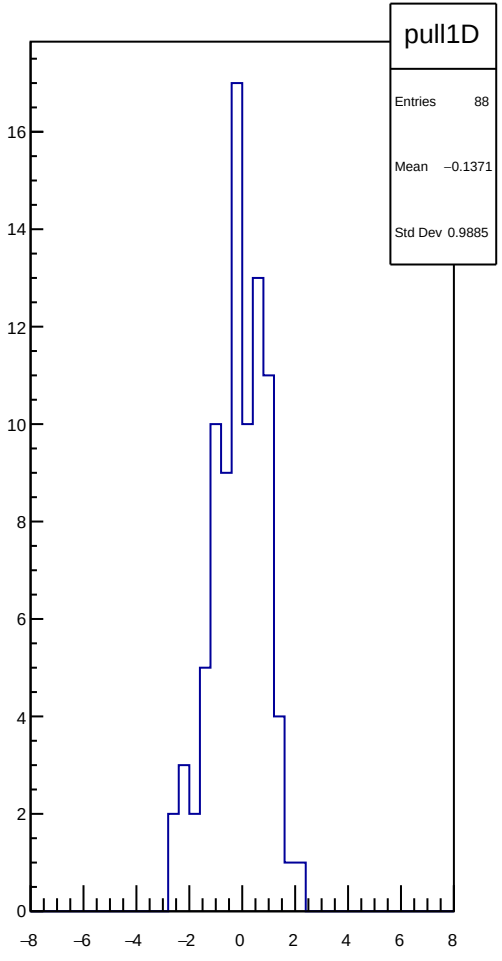

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.407e+04 / 87
p0 3440 ± 2.689
5000
4500
4000
3500
3000

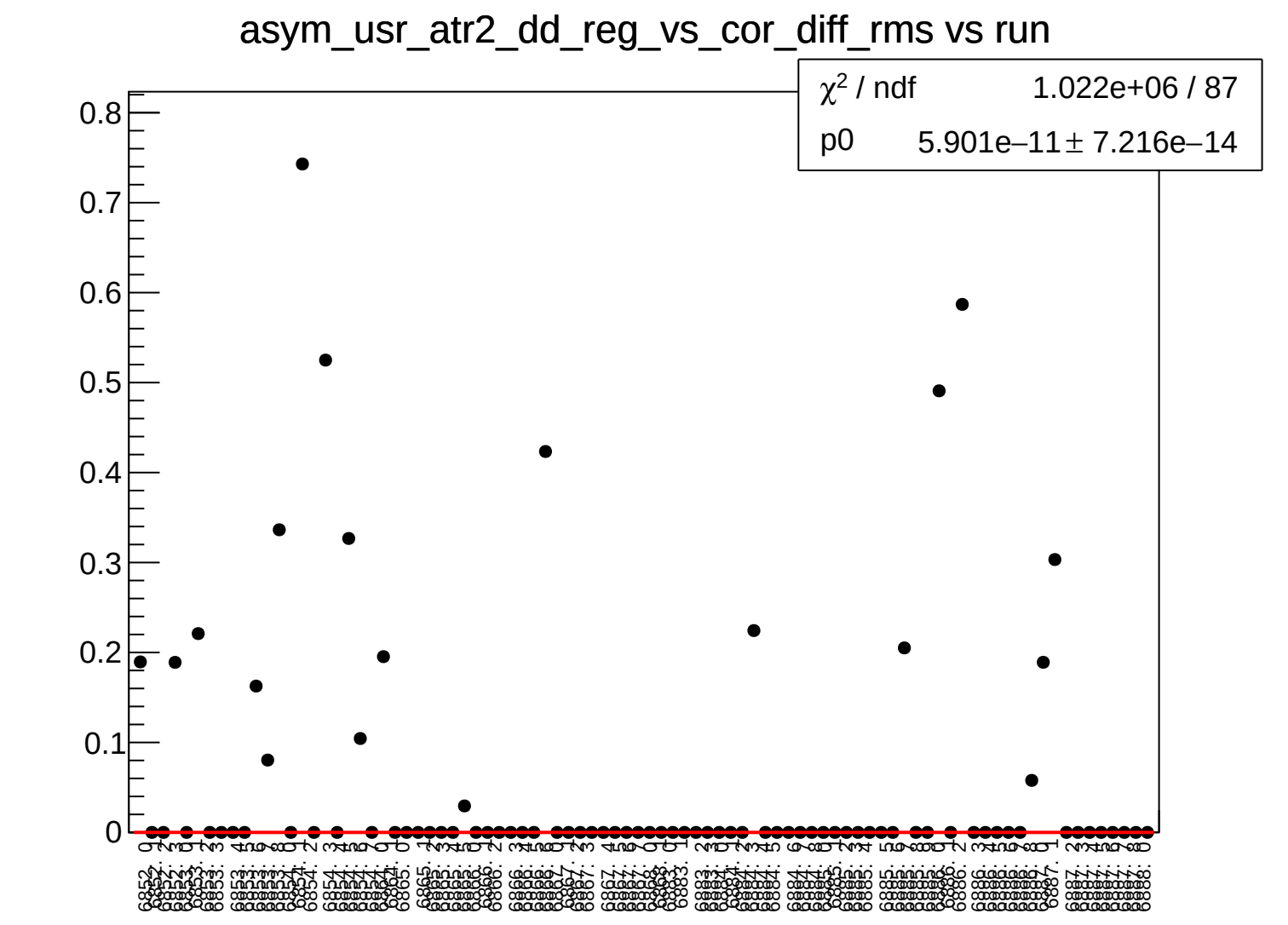

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 97.99 / 87
p0 −2248 ± 3775
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean 121.9
Std Dev 0
3
2
1
0
−1
−2

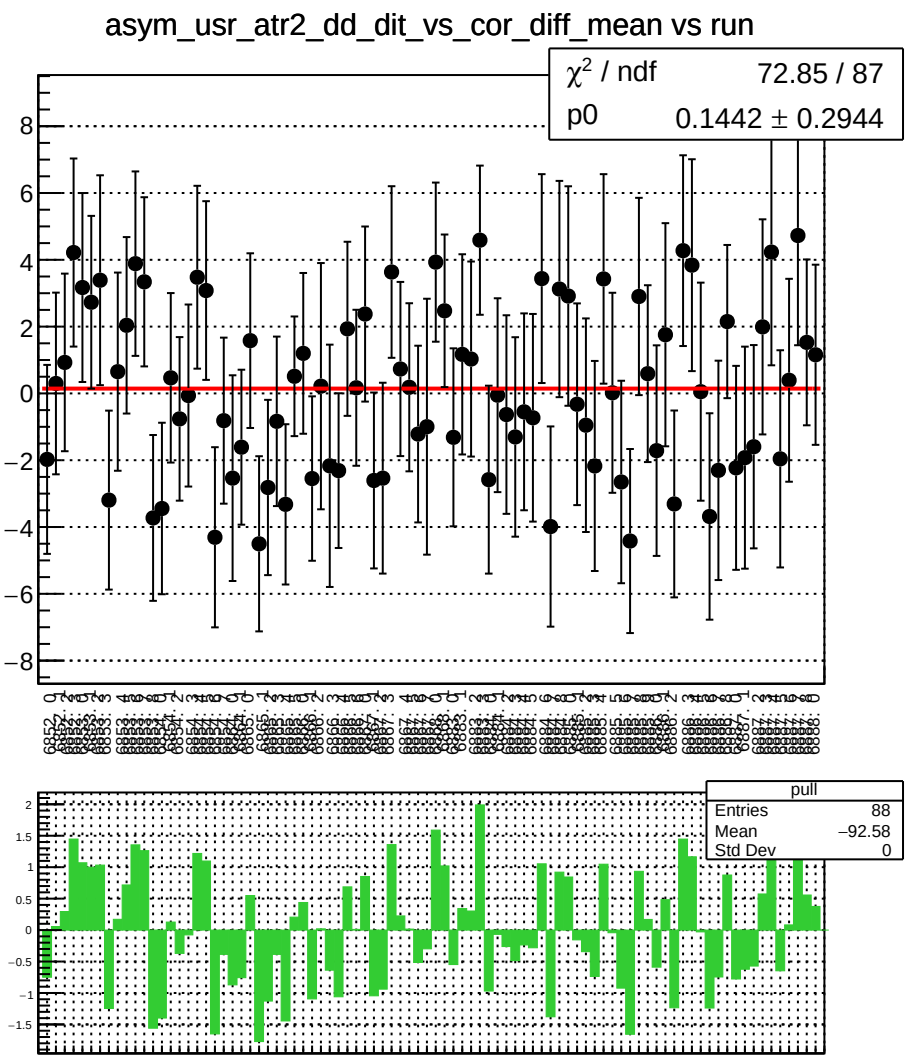

pull1D
Entries 88
Mean 0.01774
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

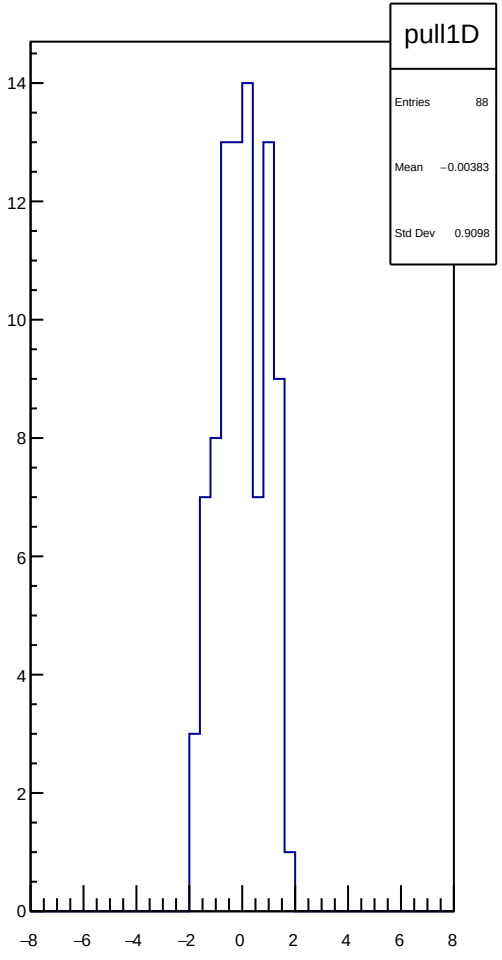

asym_usr_atr2_dd_rms vs run
χ² / ndf 4.747e+04 / 87
p0 3422 ± 2.67
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

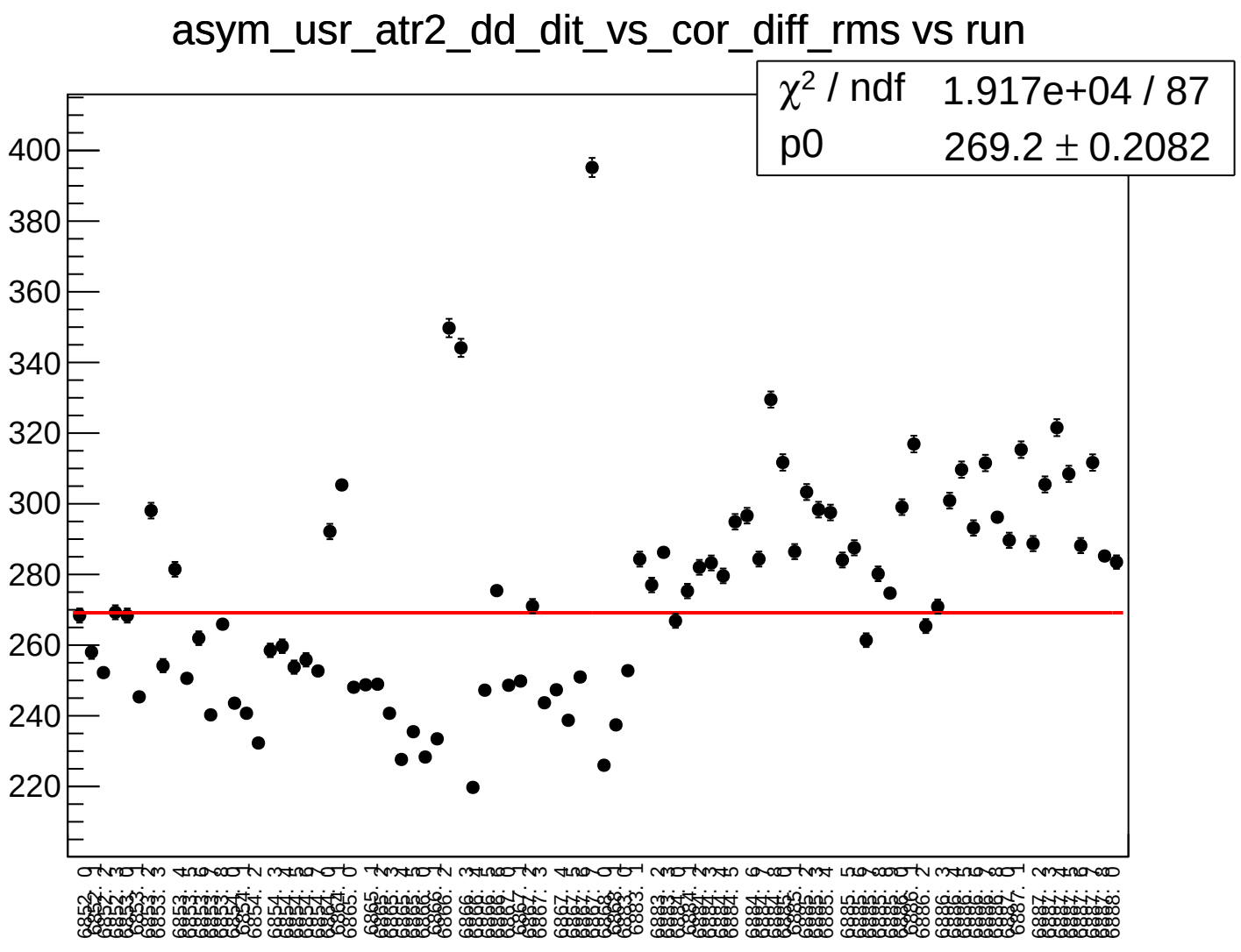

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.65 / 87
p0 −2.154e−14 ± 1.02e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 35.24
Std Dev 17.17
2
1
0
−1
−2

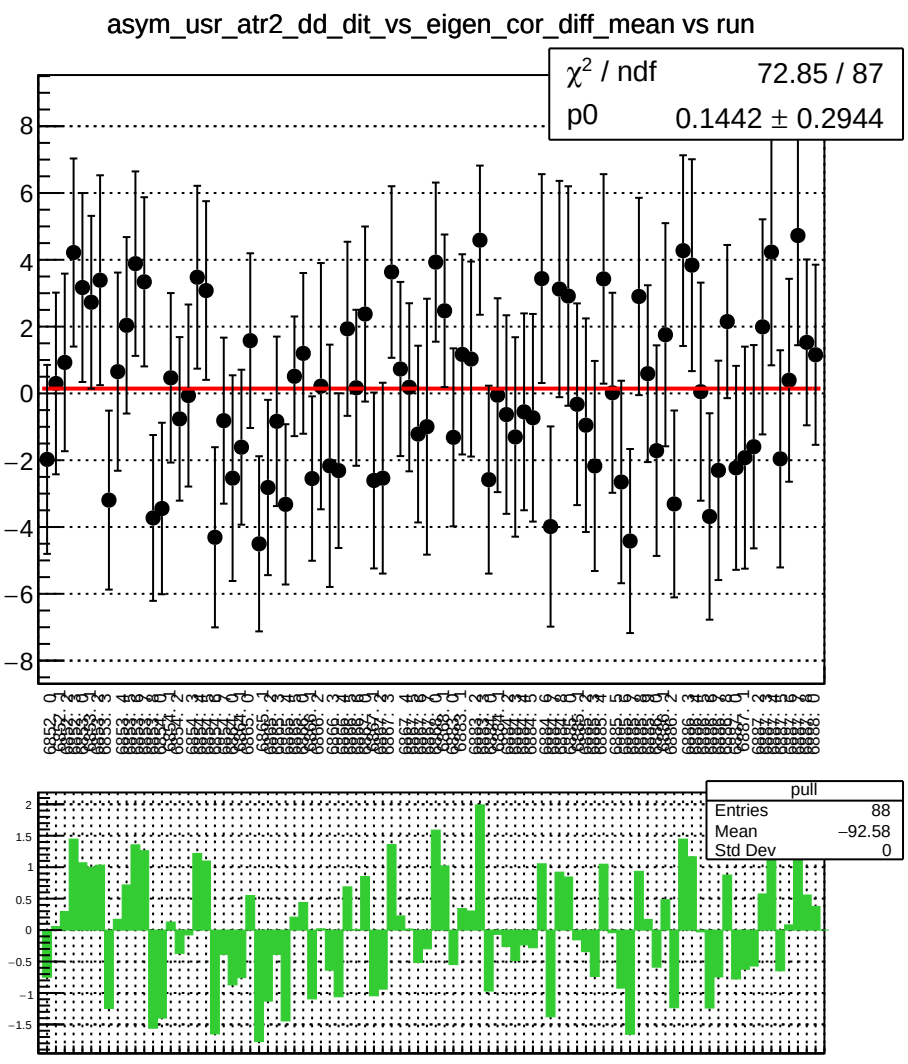

pull1D
Entries 88
Mean −0.1371
Std Dev 0.9885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

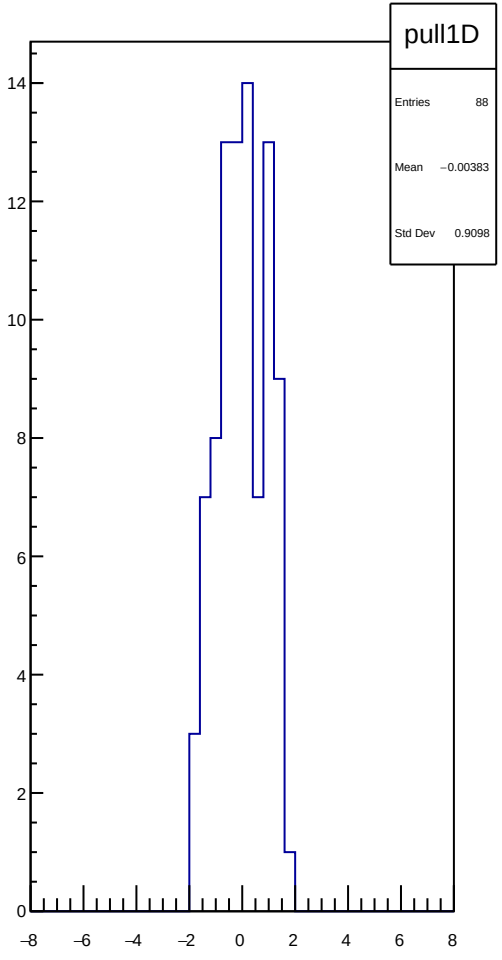

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.022e+06 / 87
p0 5.901e−11 ± 7.216e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

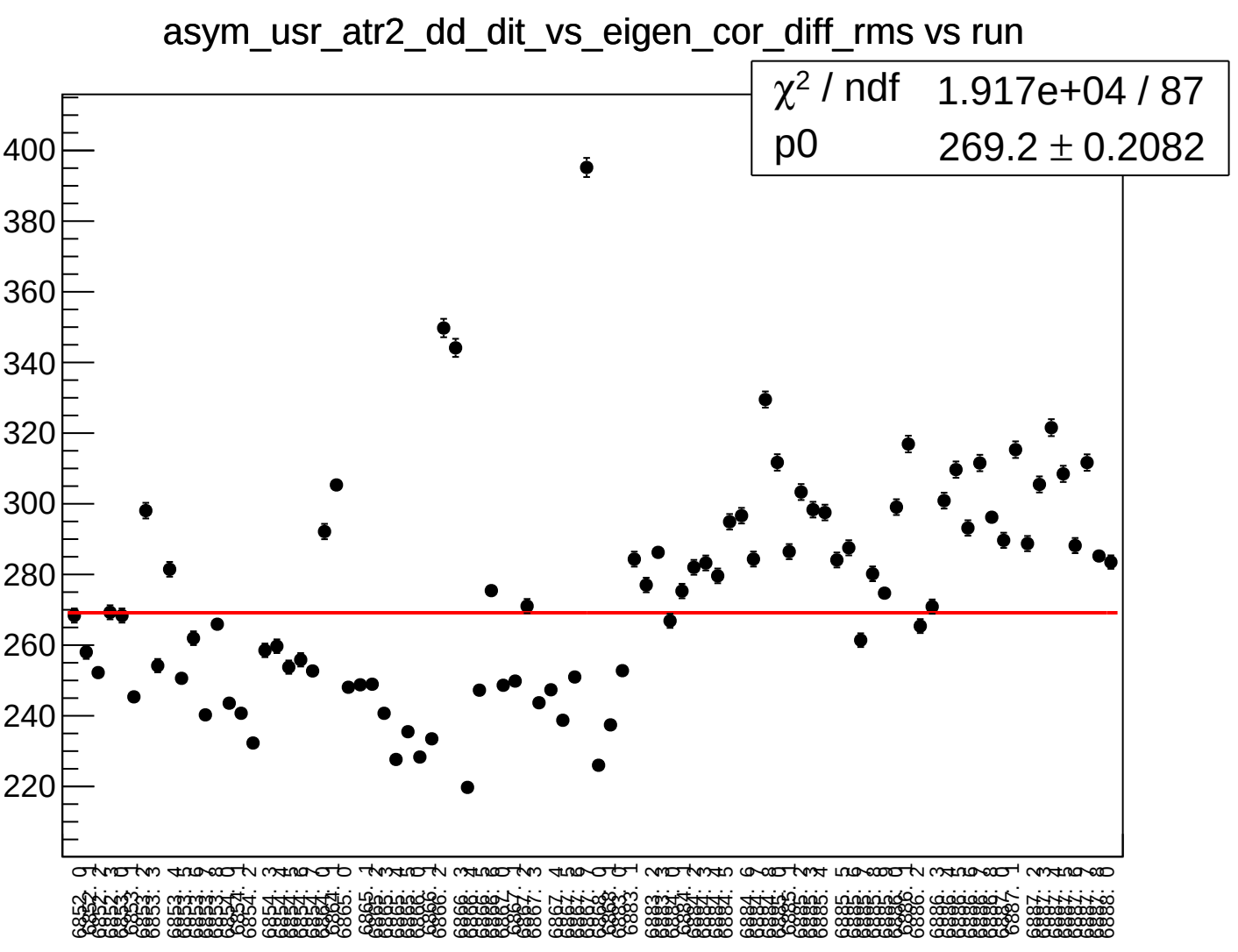

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.85 / 87
p0 0.1442 ± 0.2944
pull
Entries 88
Mean −92.58
Std Dev 0

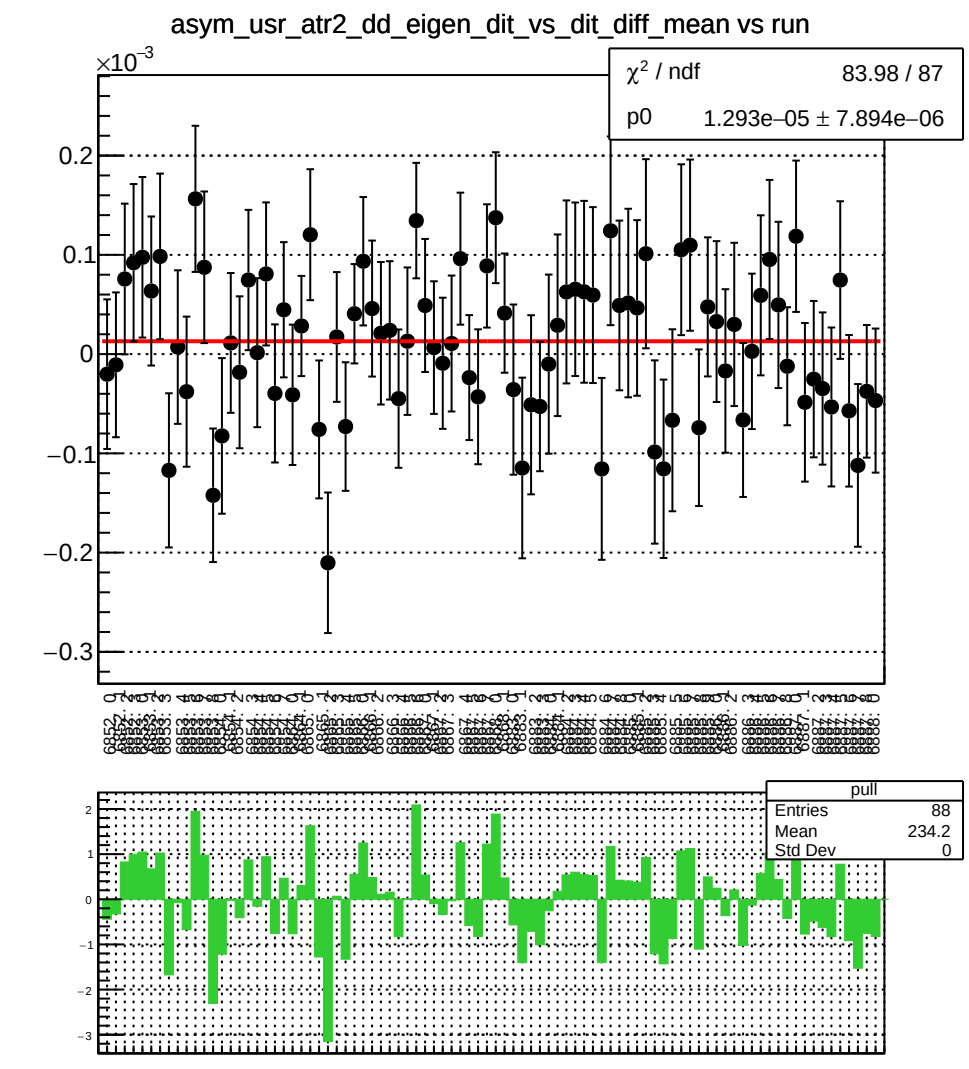

pull1D
Entries 88
Mean −0.00383
Std Dev 0.9098

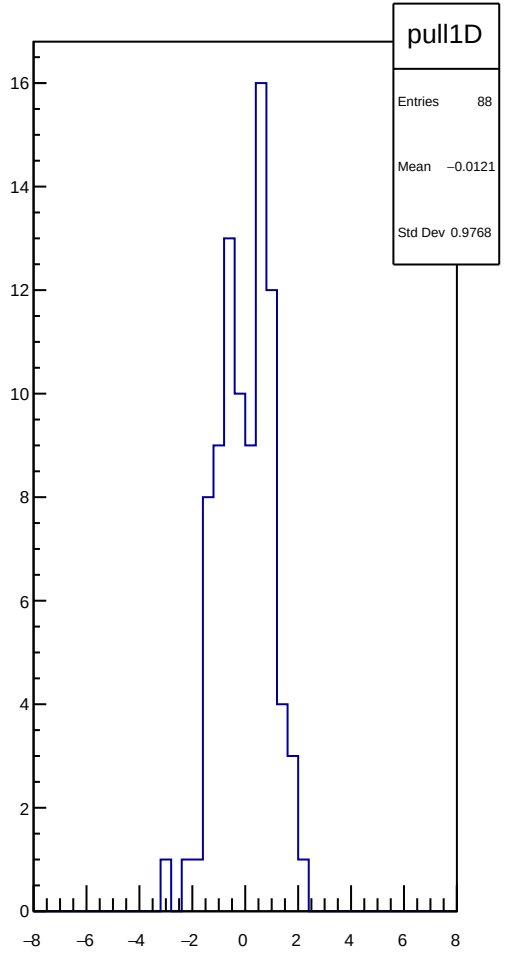

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.917e+04 / 87
p0 269.2 ± 0.2082
400
380
360
340
320
300
280
260
240
220

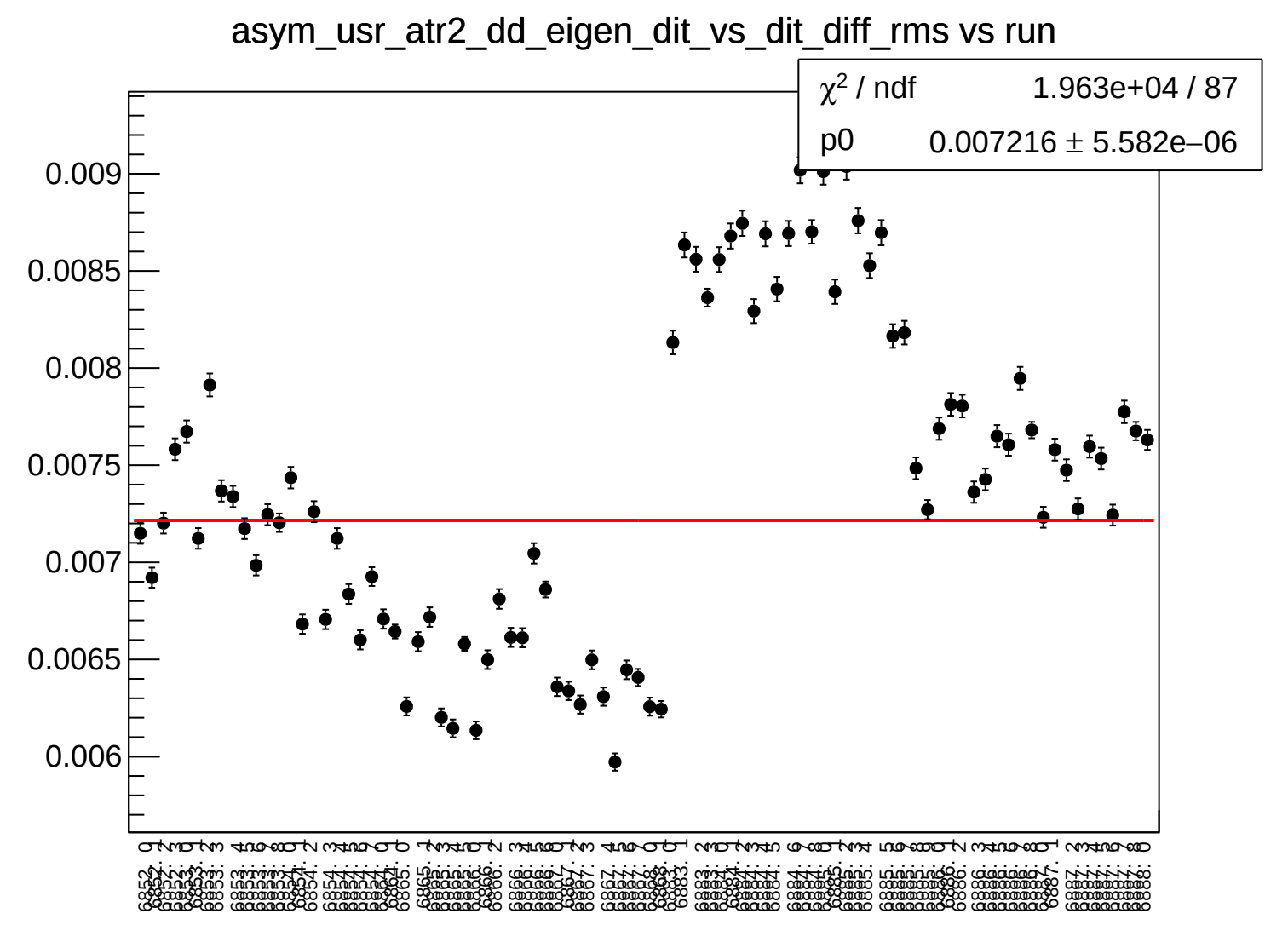

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.85 / 87
p0 0.1442 ± 0.2944
pull
Entries 88
Mean −92.58
Std Dev 0

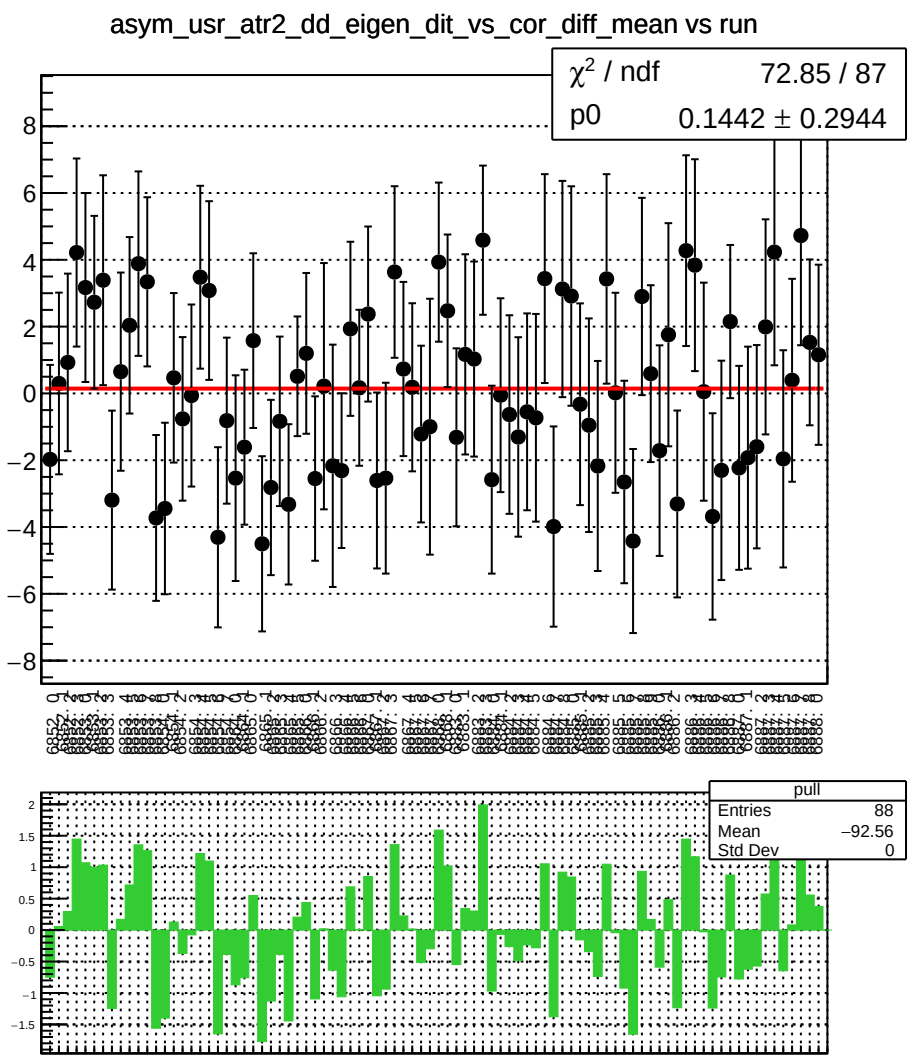

pull1D
Entries 88
Mean −0.00383
Std Dev 0.9098

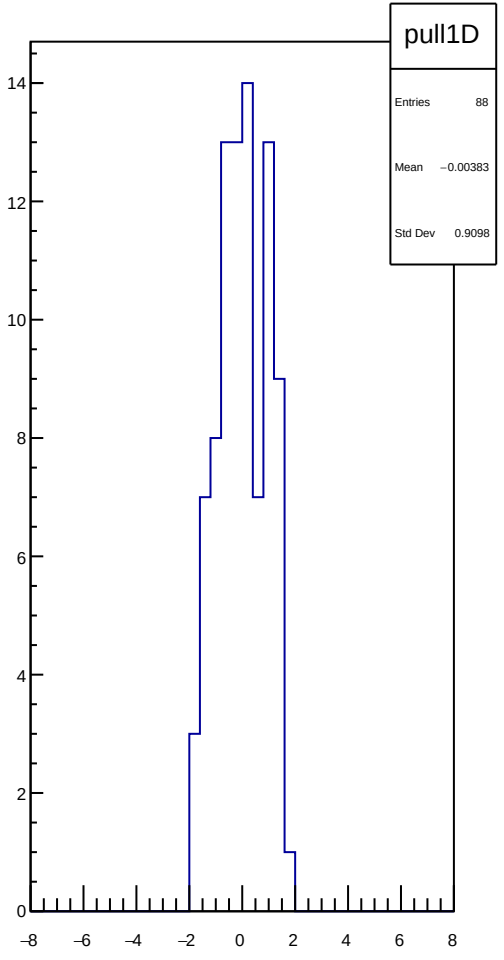

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.917e+04 / 87
p0 269.2 ± 0.2082
400
380
360
340
320
300
280
260
240
220

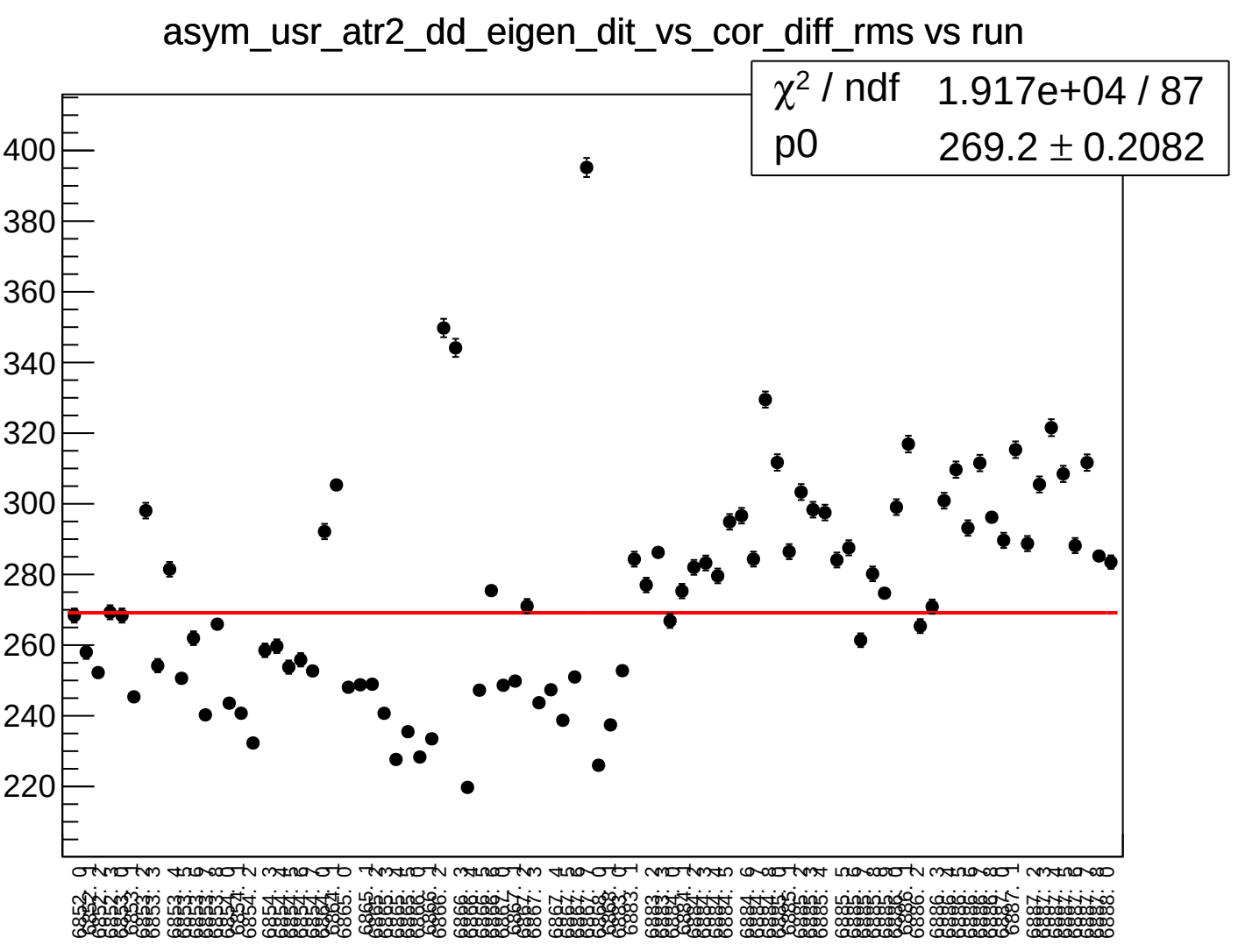

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.98 / 87
p0 1.293e−05 ± 7.894e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 88
Mean 234.2
Std Dev 0
2
1
0
−1
−2
−3

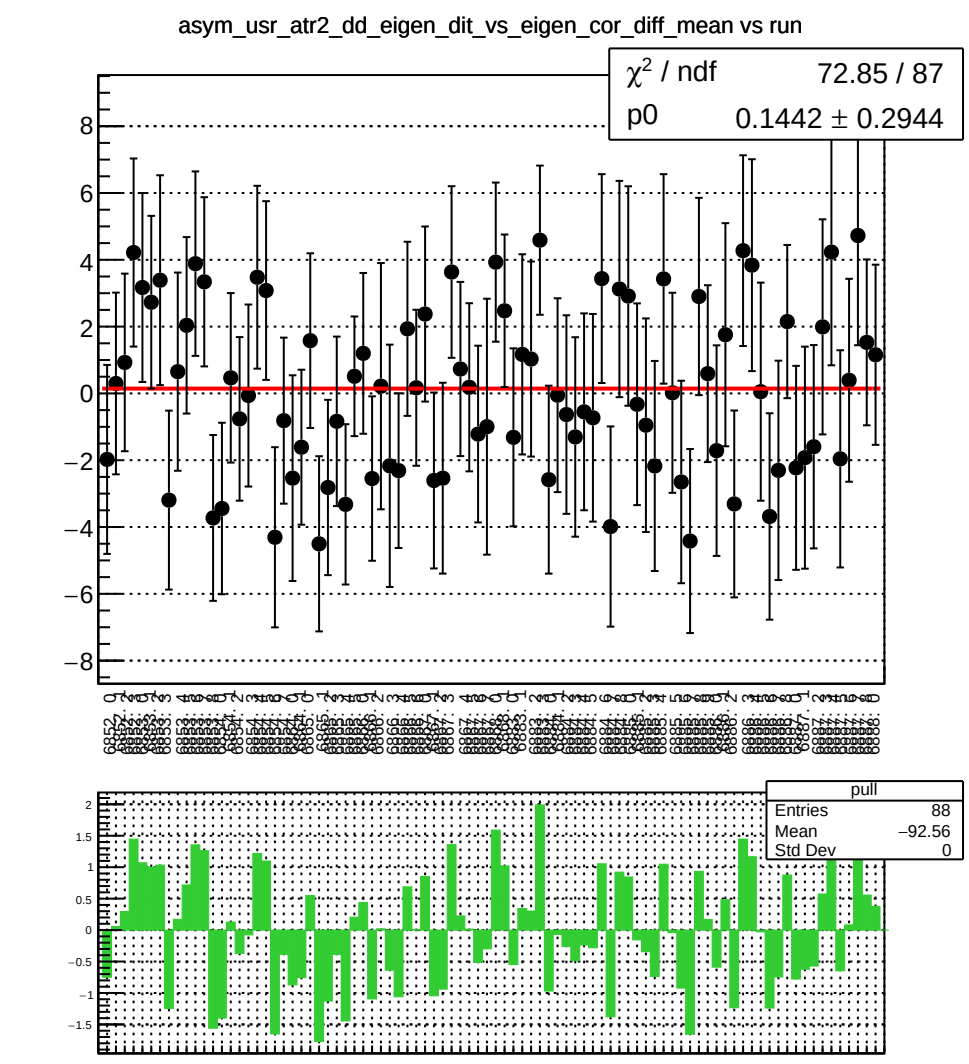

pull1D
Entries 88
Mean −0.0121
Std Dev 0.9768
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

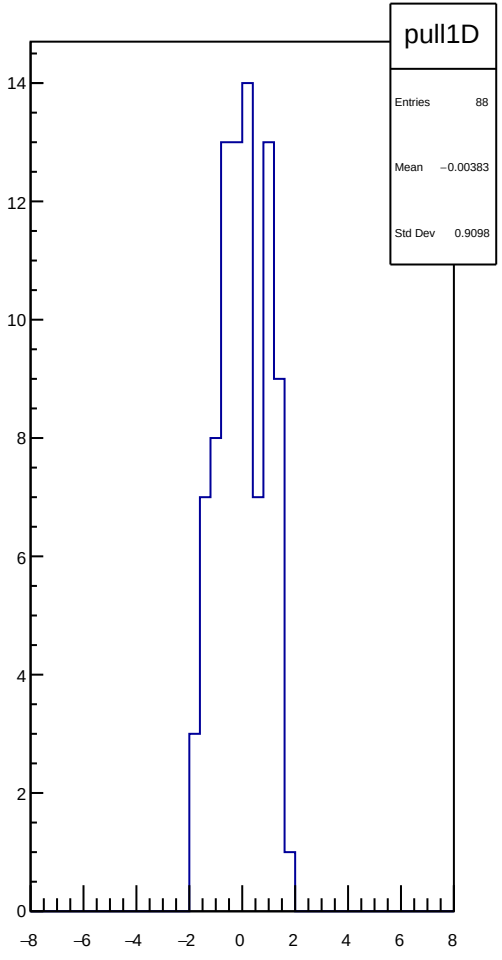

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.963e+04 / 87
p0 0.007216 ± 5.582e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

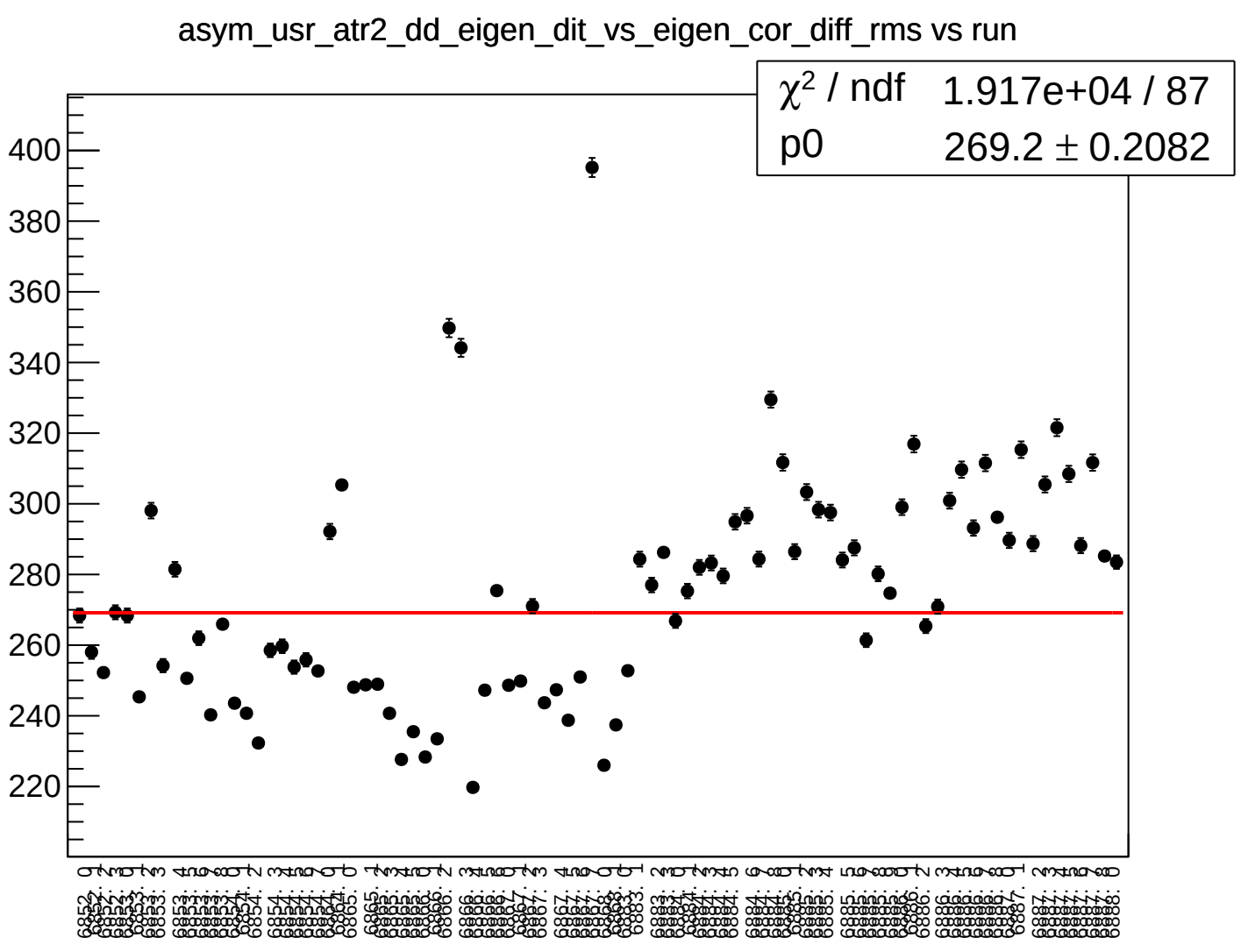

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.85 / 87
p0 0.1442 ± 0.2944
pull
Entries 88
Mean −92.56
Std Dev 0

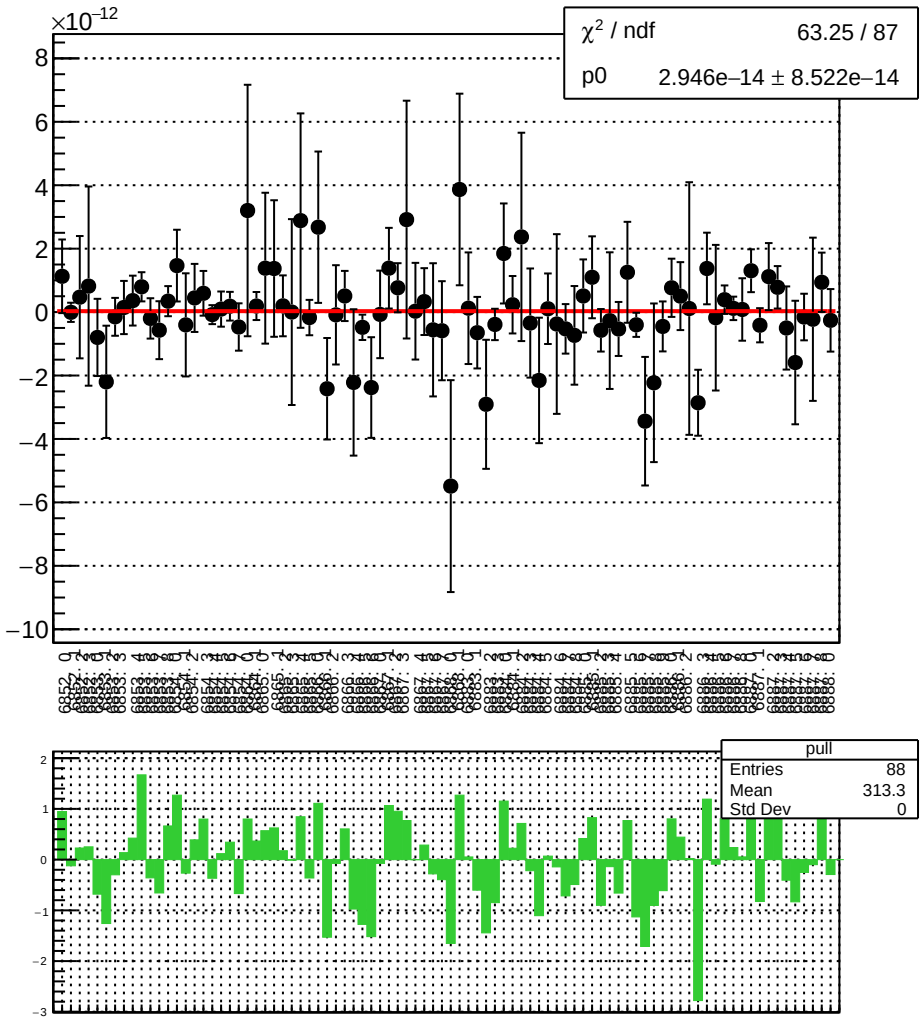

pull1D
Entries 88
Mean −0.00383
Std Dev 0.9098

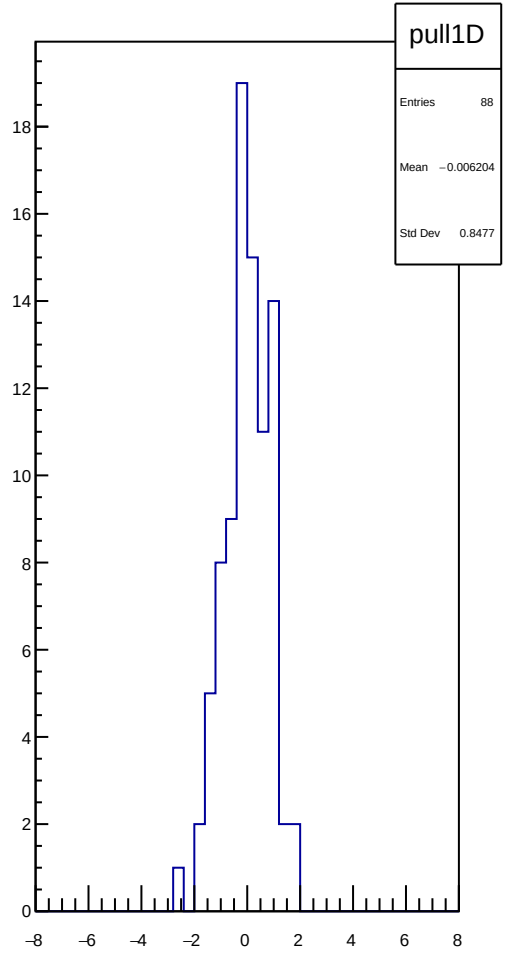

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.917e+04 / 87
p0 269.2 ± 0.2082
400
380
360
340
320
300
280
260
240
220

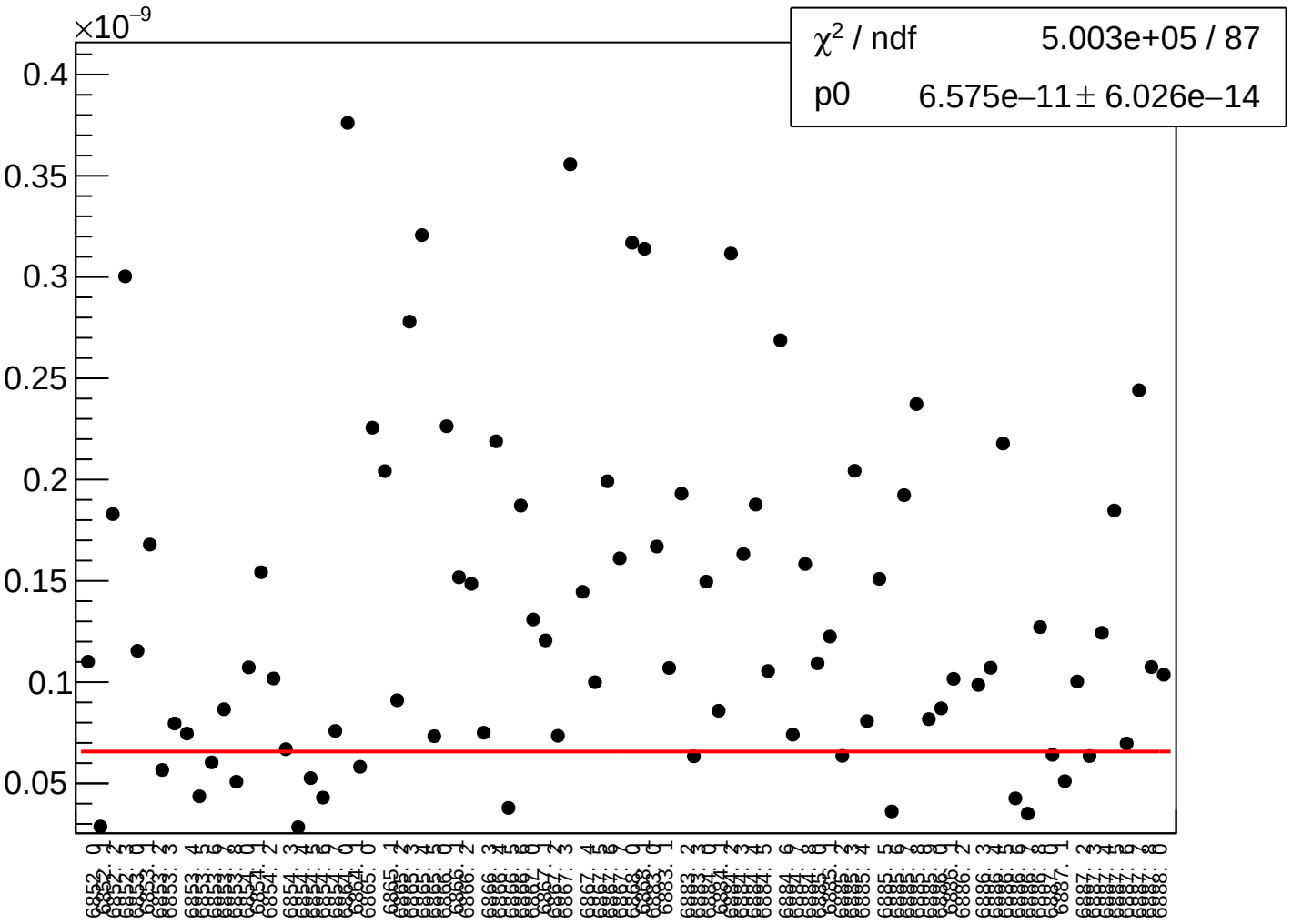

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.85 / 87
p0 0.1442 ± 0.2944
pull
Entries 88
Mean −92.56
Std Dev 0

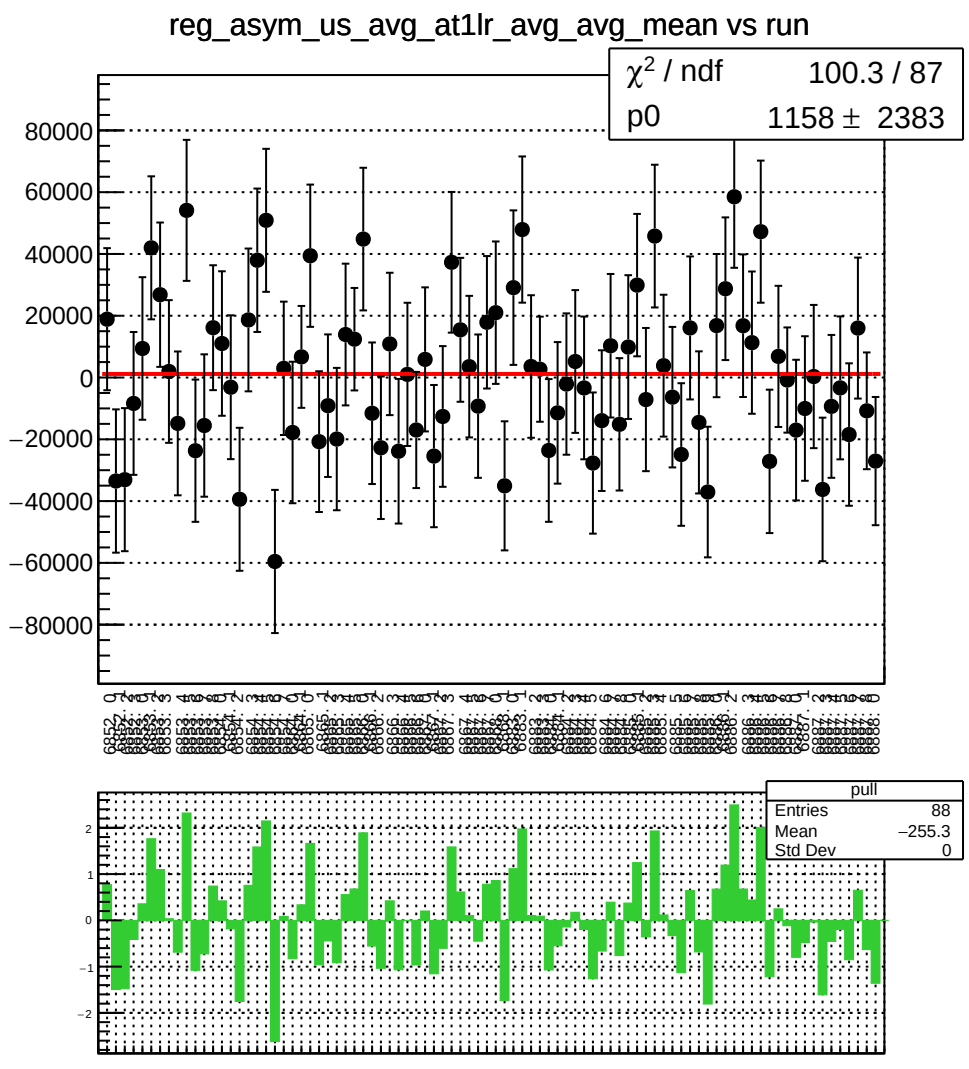

pull1D
Entries 88
Mean −0.00383
Std Dev 0.9098

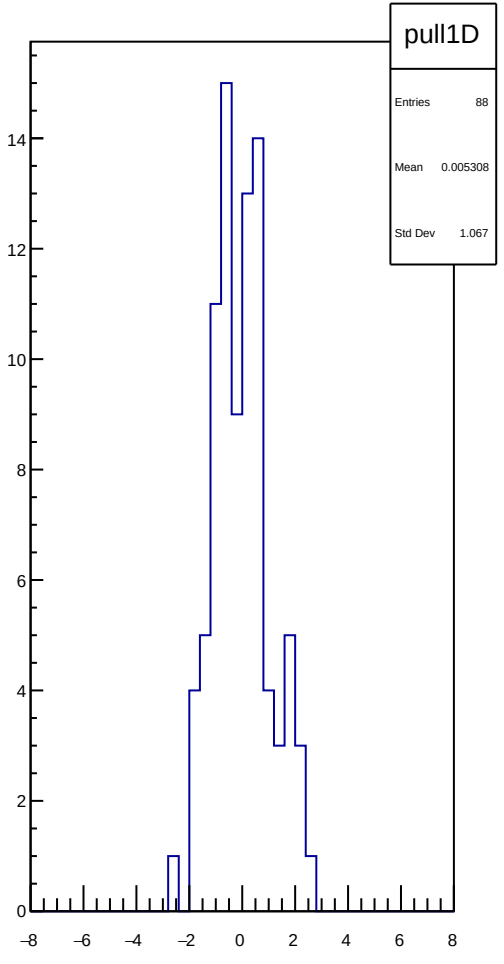

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.917e+04 / 87
p0 269.2 ± 0.2082
400
380
360
340
320
300
280
260
240
220

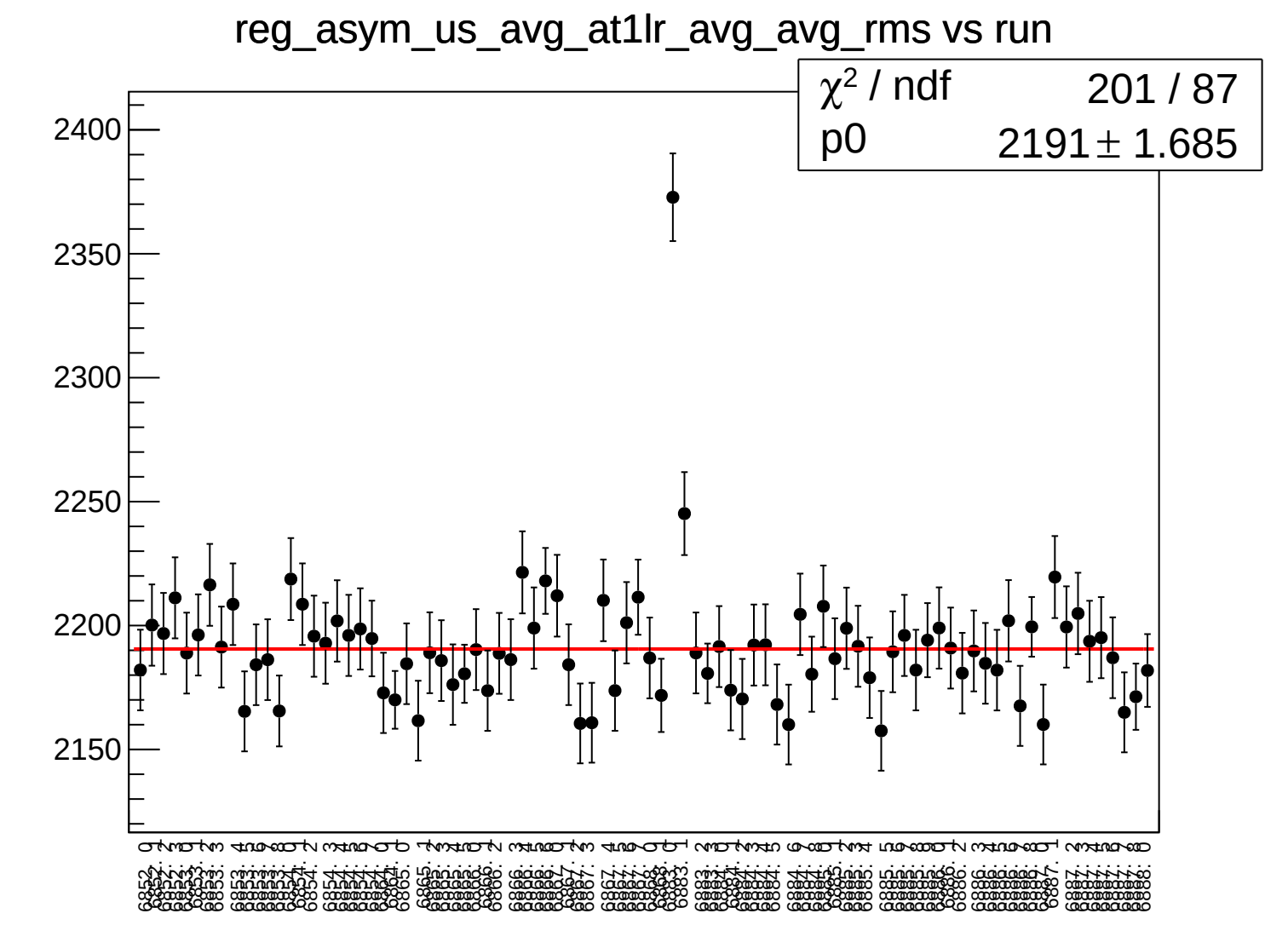

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.25 / 87
p0 2.946e−14 ± 8.522e−14
pull
Entries 88
Mean 313.3
Std Dev 0

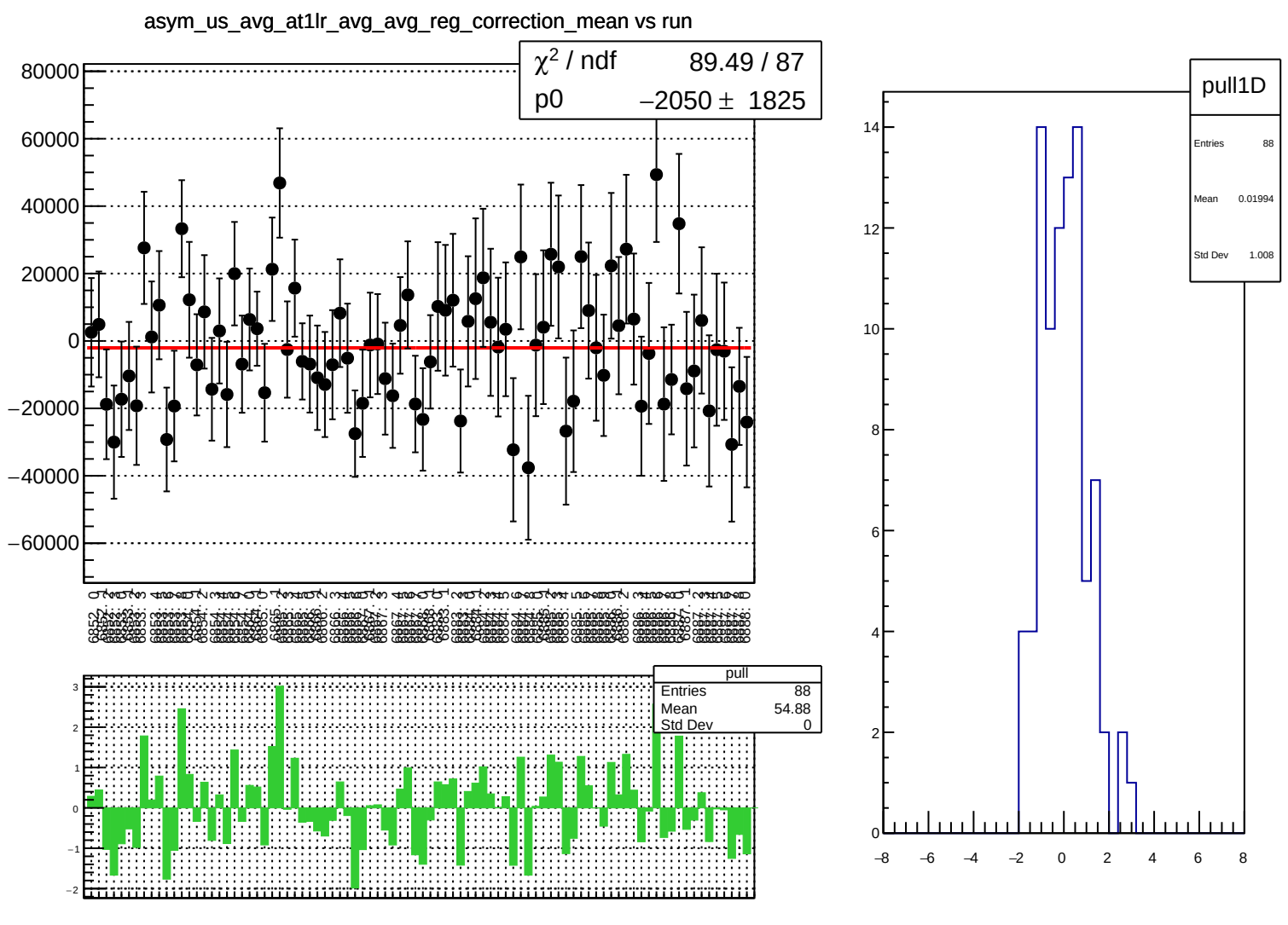

pull1D
Entries 88
Mean −0.006204
Std Dev 0.8477

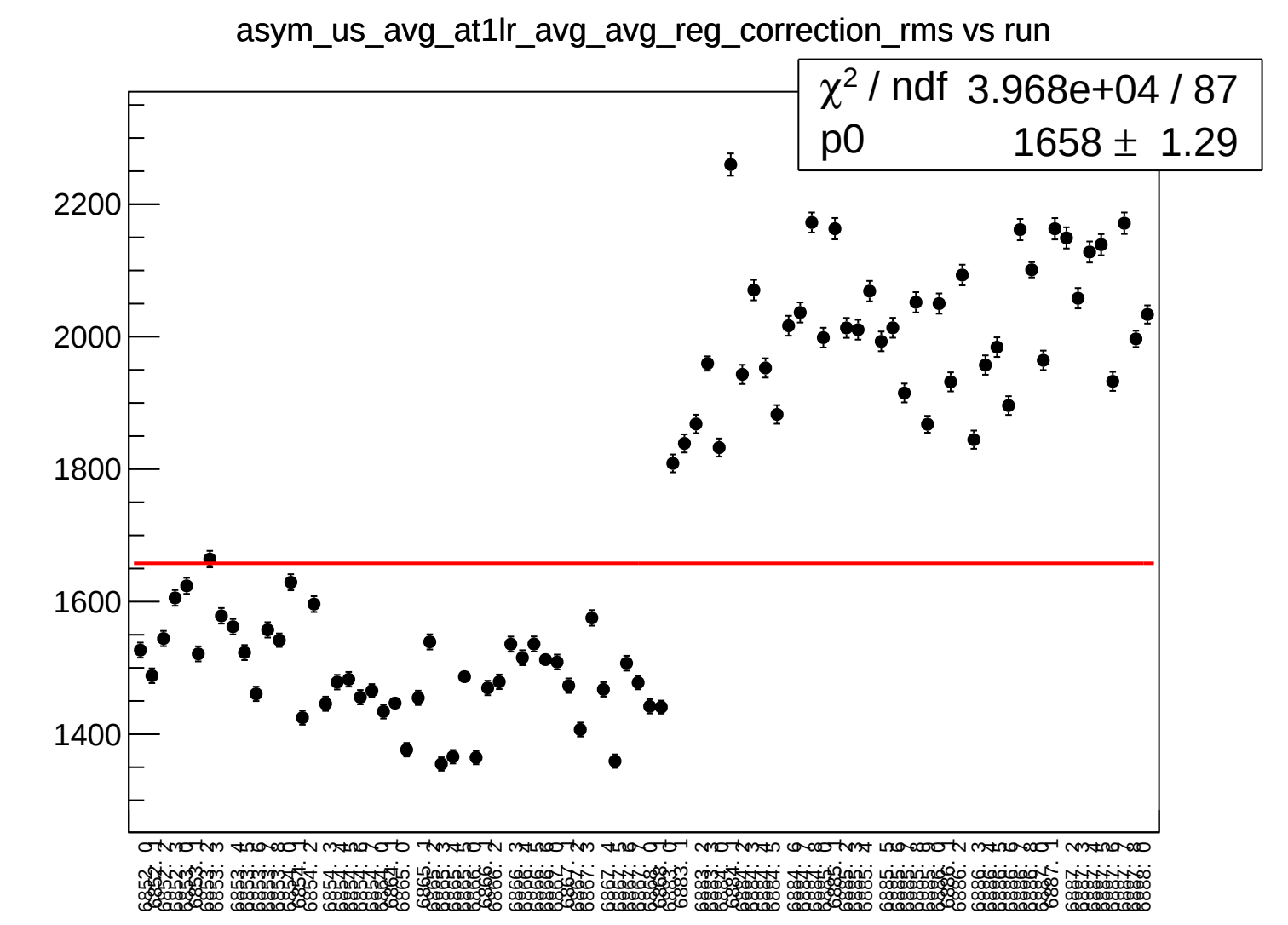

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.003e+05 / 87
p0 6.575e−11 ± 6.026e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

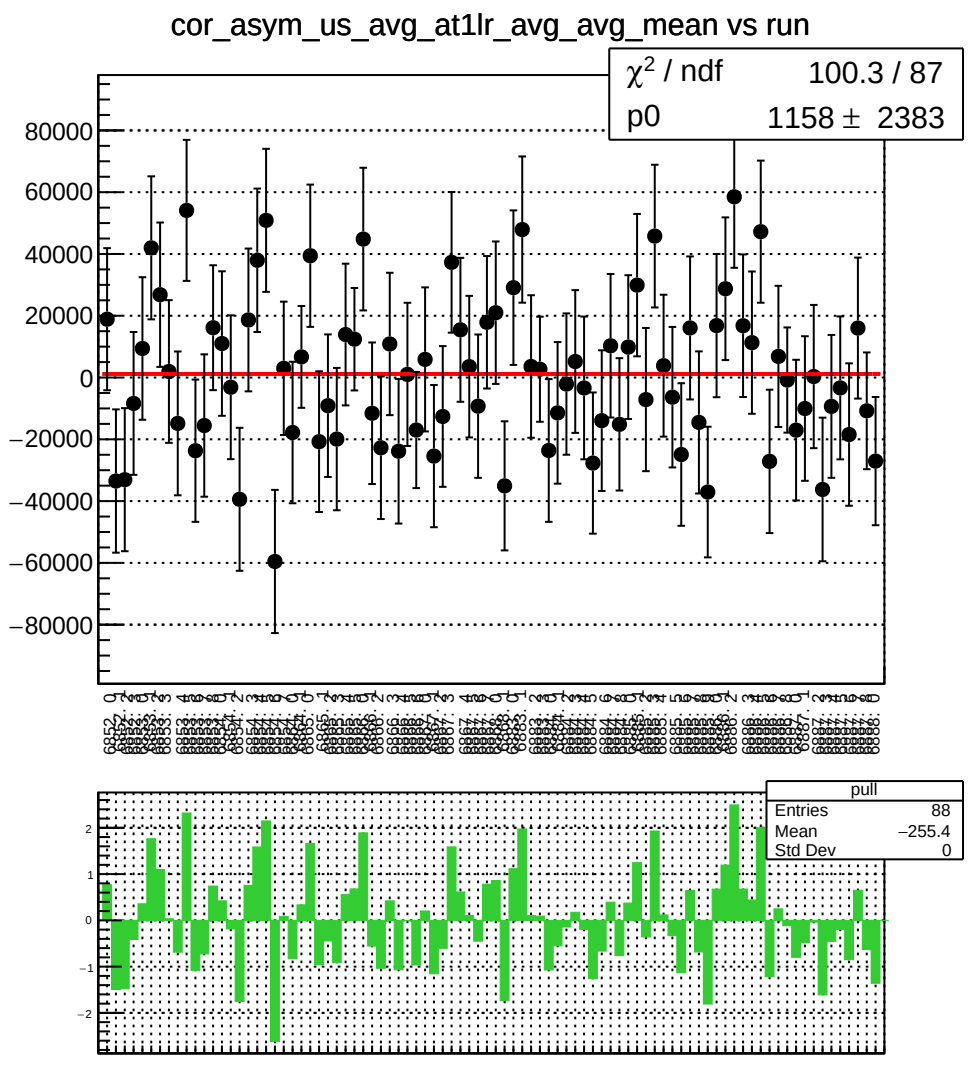

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 100.3 / 87
p0 1158 ± 2383
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −255.3
Std Dev 0
2
1
0
−1
−2

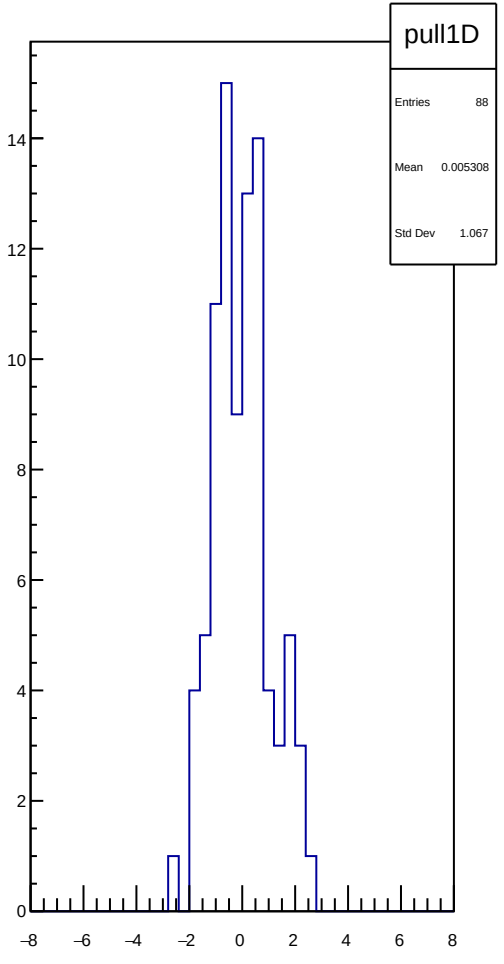

pull1D
Entries 88
Mean 0.005308
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

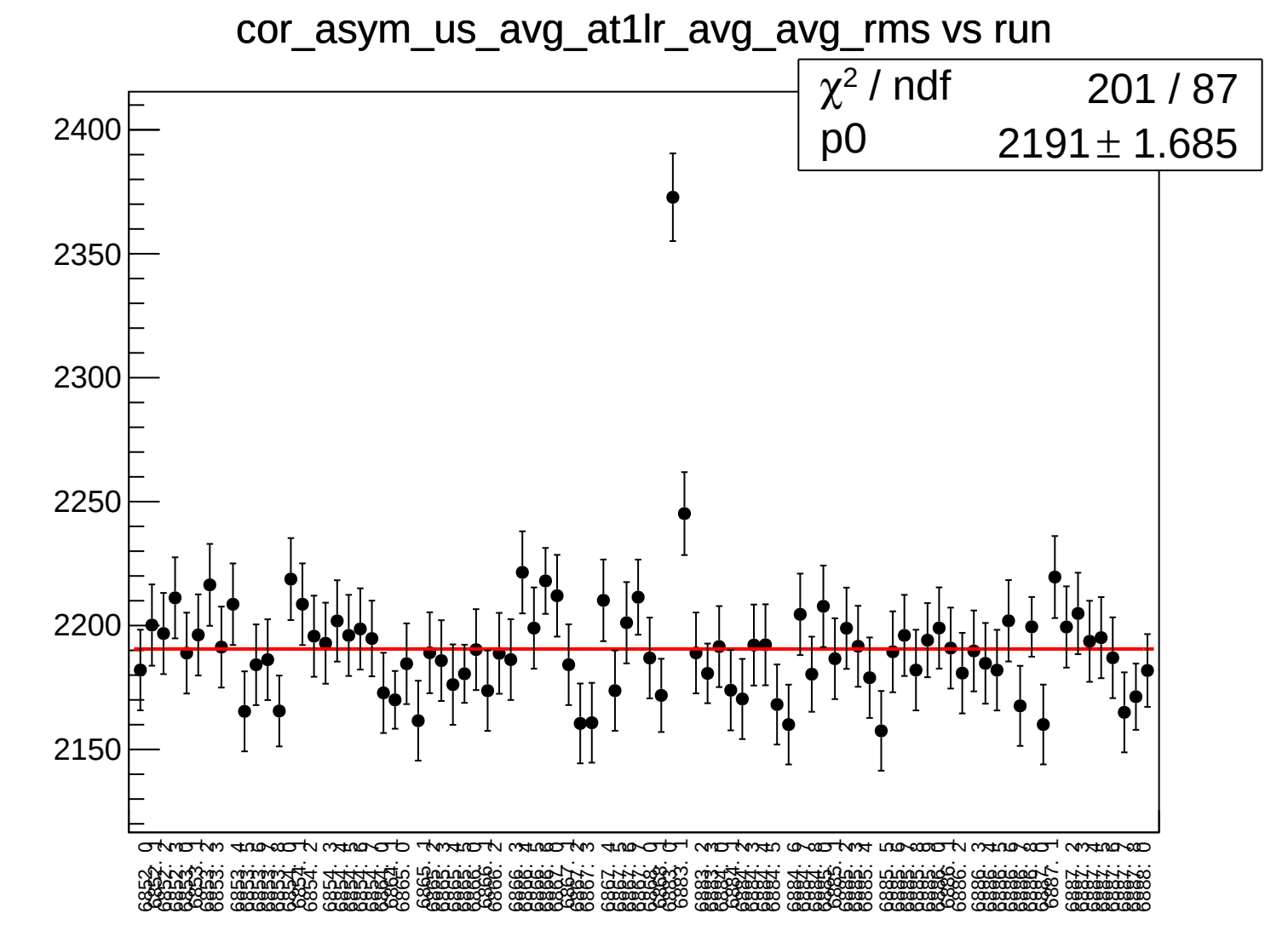

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 201 / 87
p0 2191 ± 1.685
2400
2350
2300
2250
2200
2150

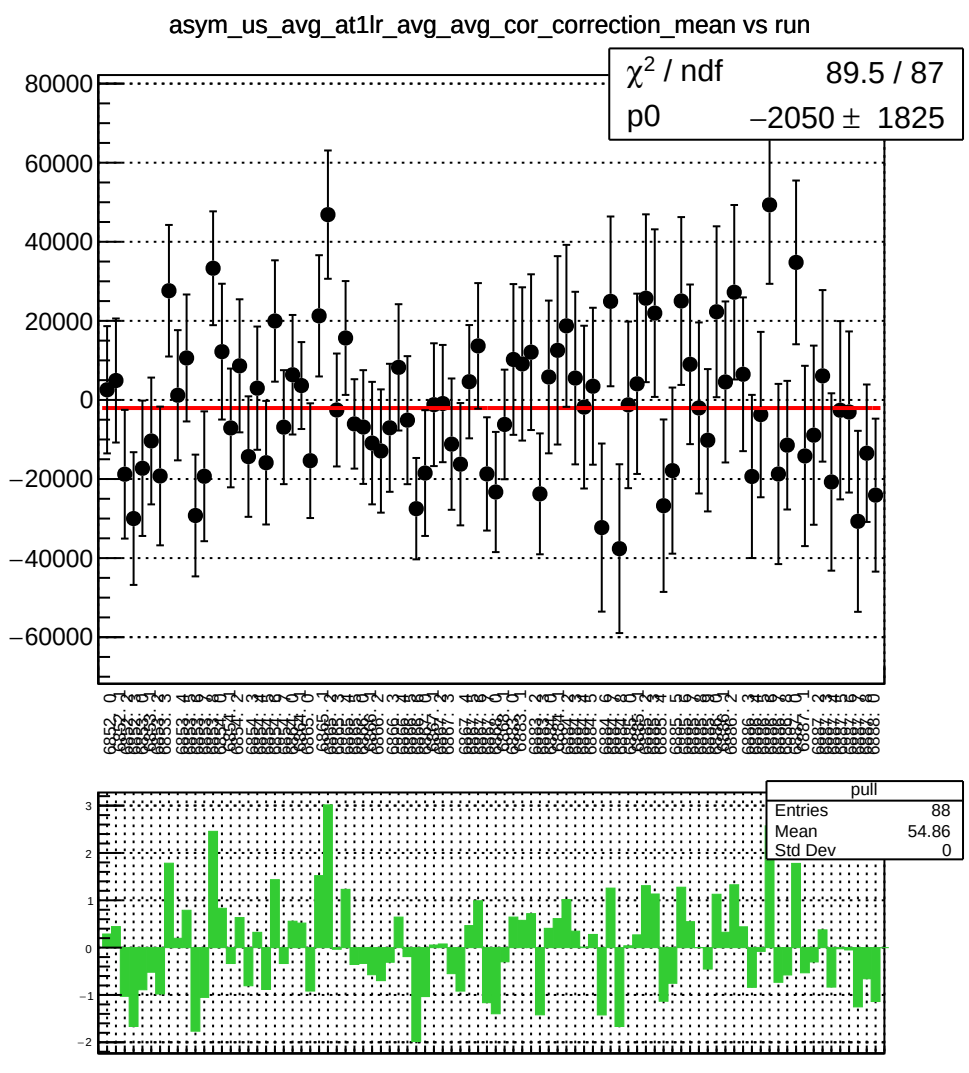

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 89.49 / 87
p0 −2050 ± 1825
pull
Entries 88
Mean 54.88
Std Dev 0
pull1D
Entries 88
Mean 0.01994
Std Dev 1.008

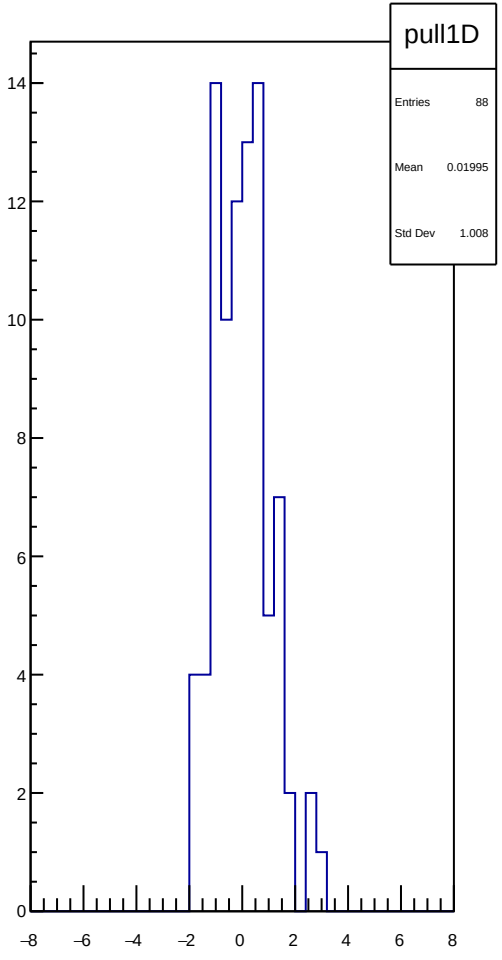

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.968e+04 / 87
p0 1658 ± 1.29
2200
2000
1800
1600
1400

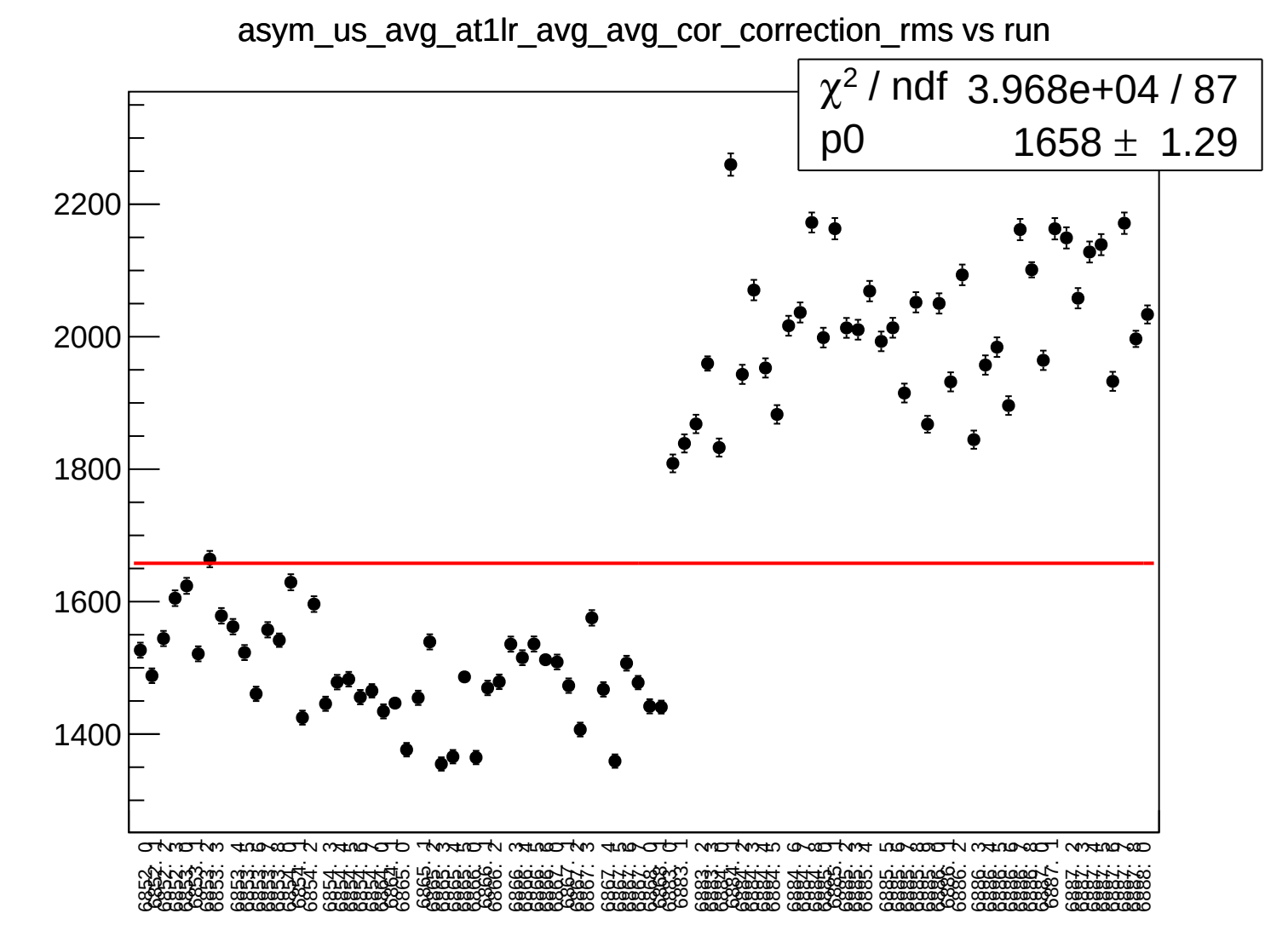

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 100.3 / 87
p0 1158 ± 2383
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −255.4
Std Dev 0
2
1
0
−1
−2

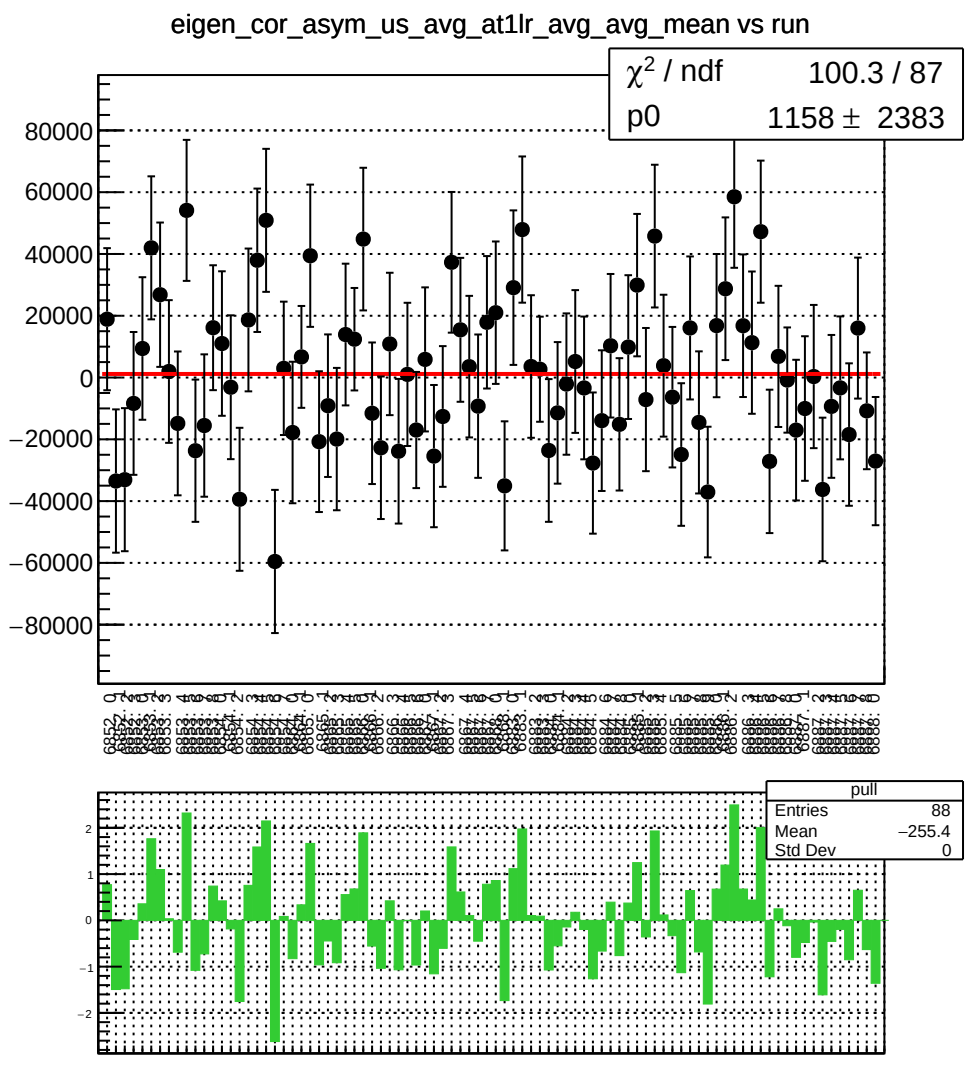

pull1D
Entries 88
Mean 0.005308
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

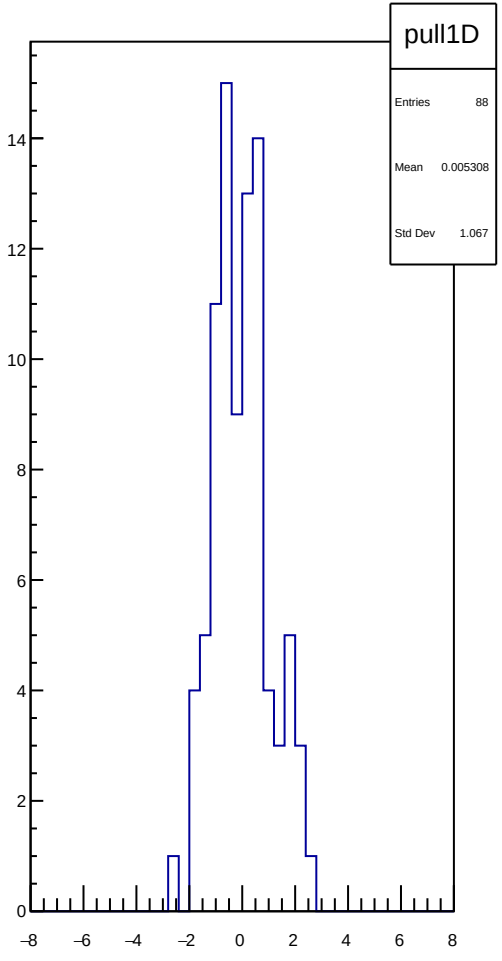

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 201 / 87
p0 2191 ± 1.685
2400
2350
2300
2250
2200
2150

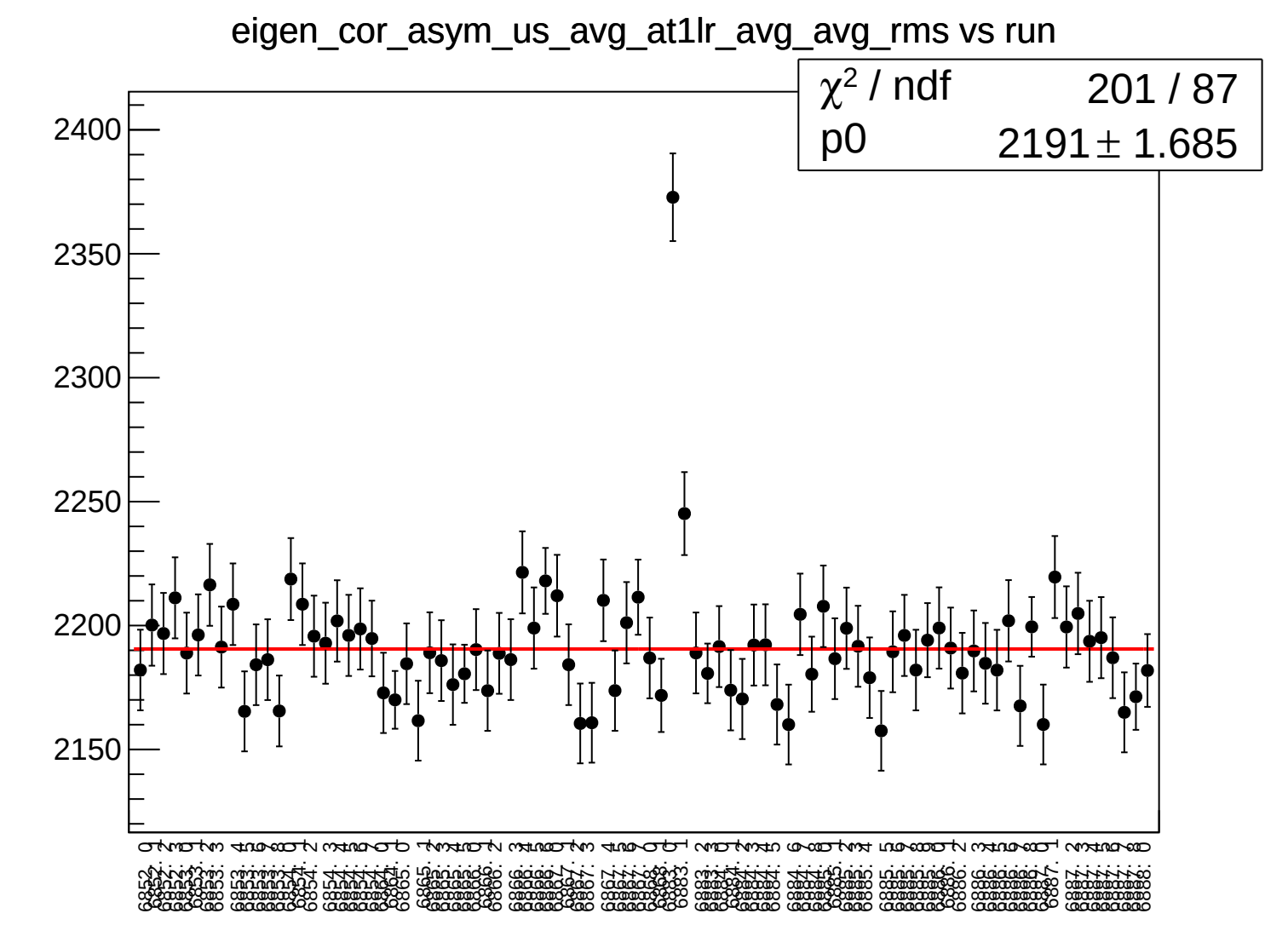

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 89.5 / 87
p0 −2050 ± 1825
pull
Entries 88
Mean 54.86
Std Dev 0

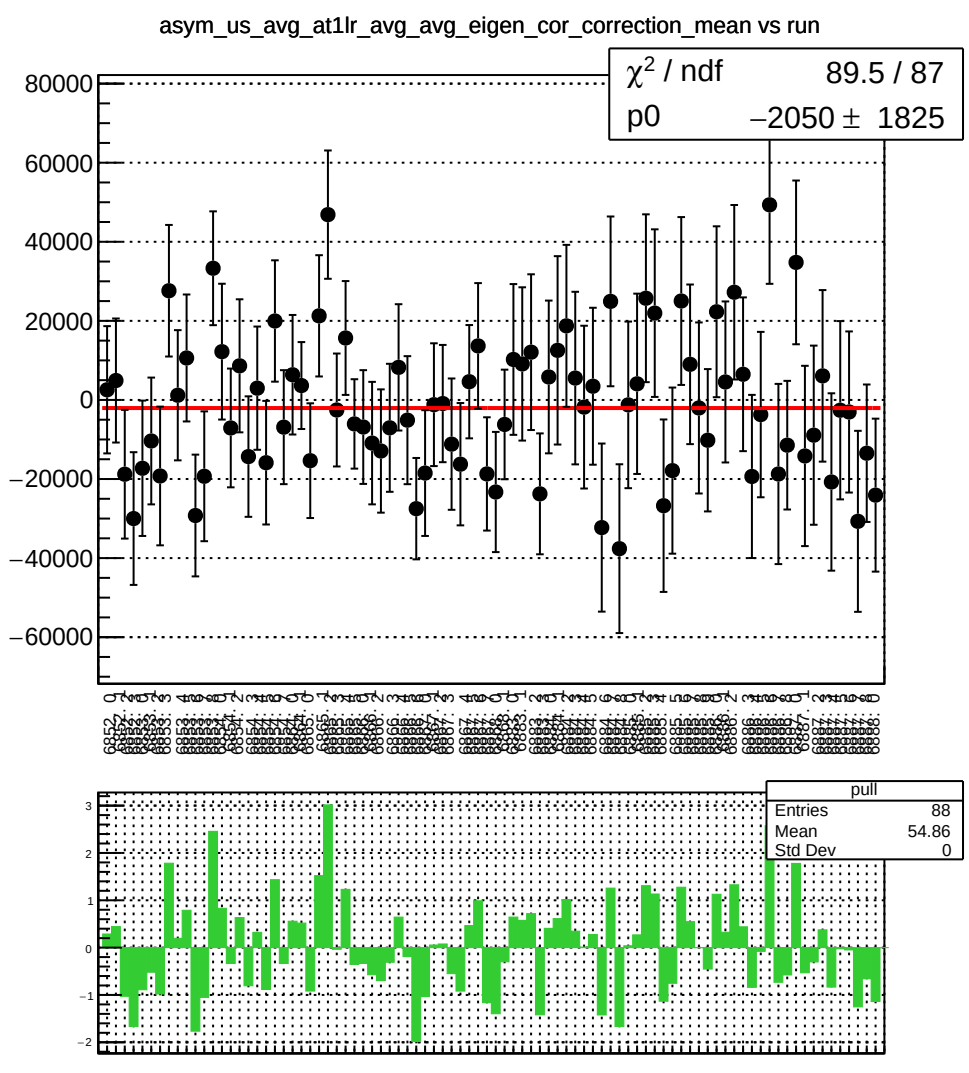

pull1D
Entries 88
Mean 0.01995
Std Dev 1.008

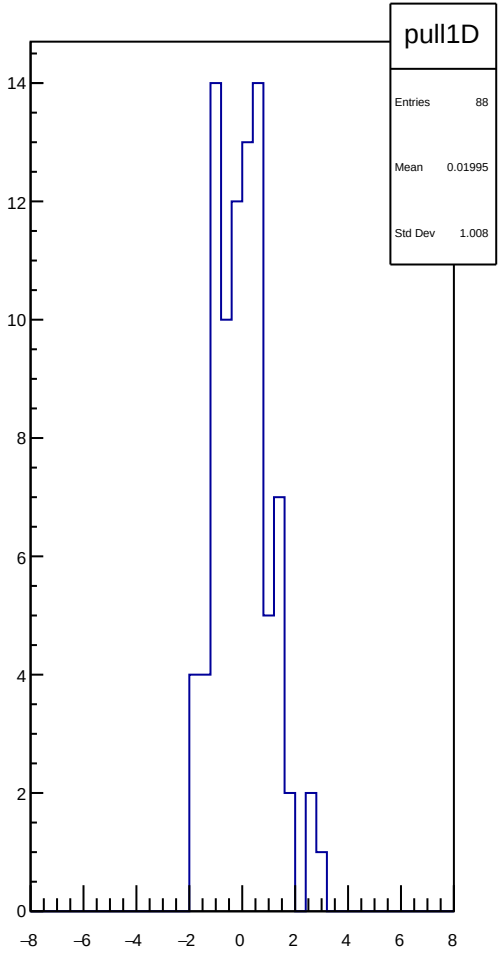

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.968e+04 / 87
p0 1658 ± 1.29
2200
2000
1800
1600
1400

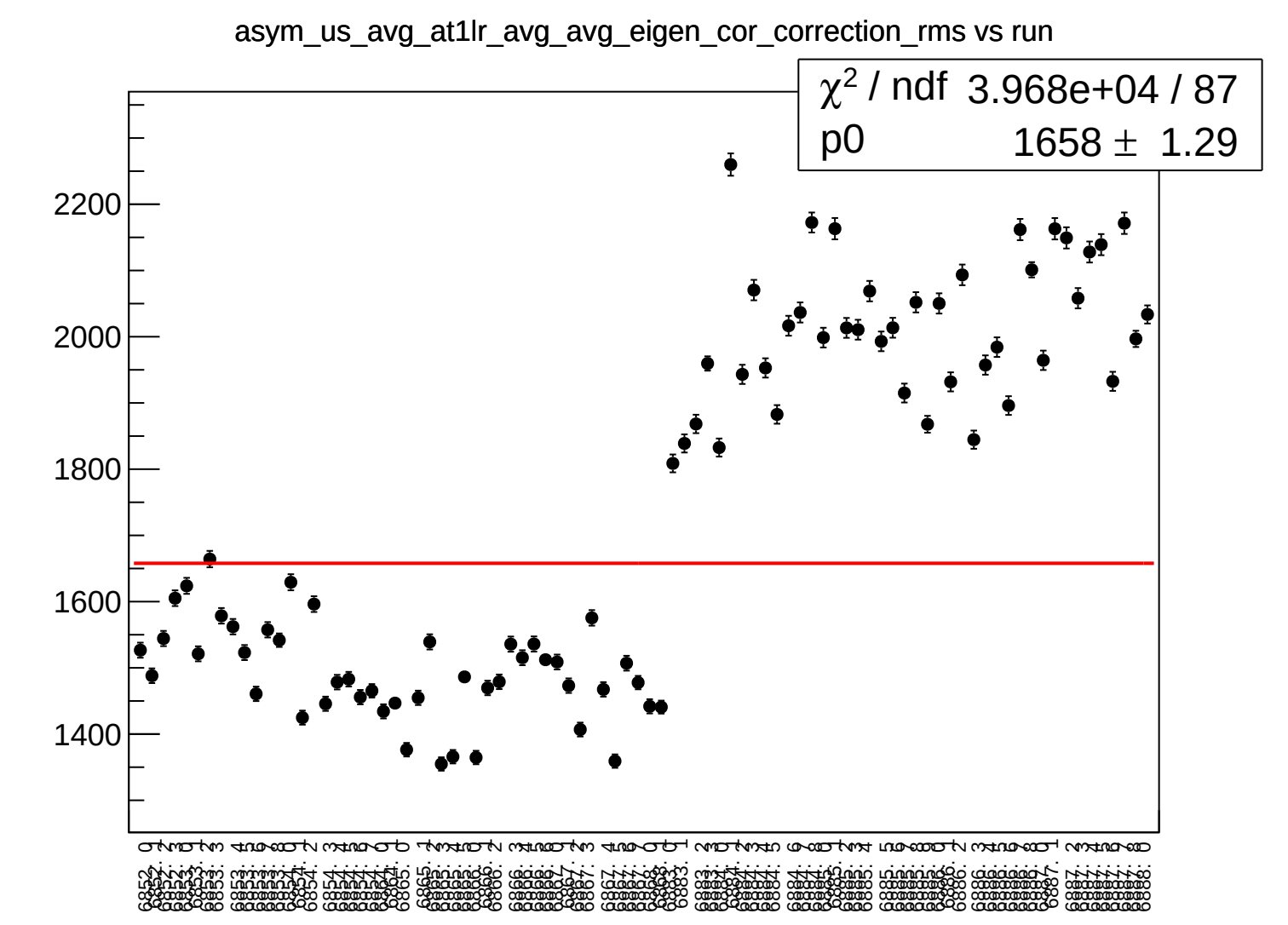

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 100.3 / 87
p0 1158 ± 2383
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −255.4
Std Dev 0
2
1
0
−1
−2

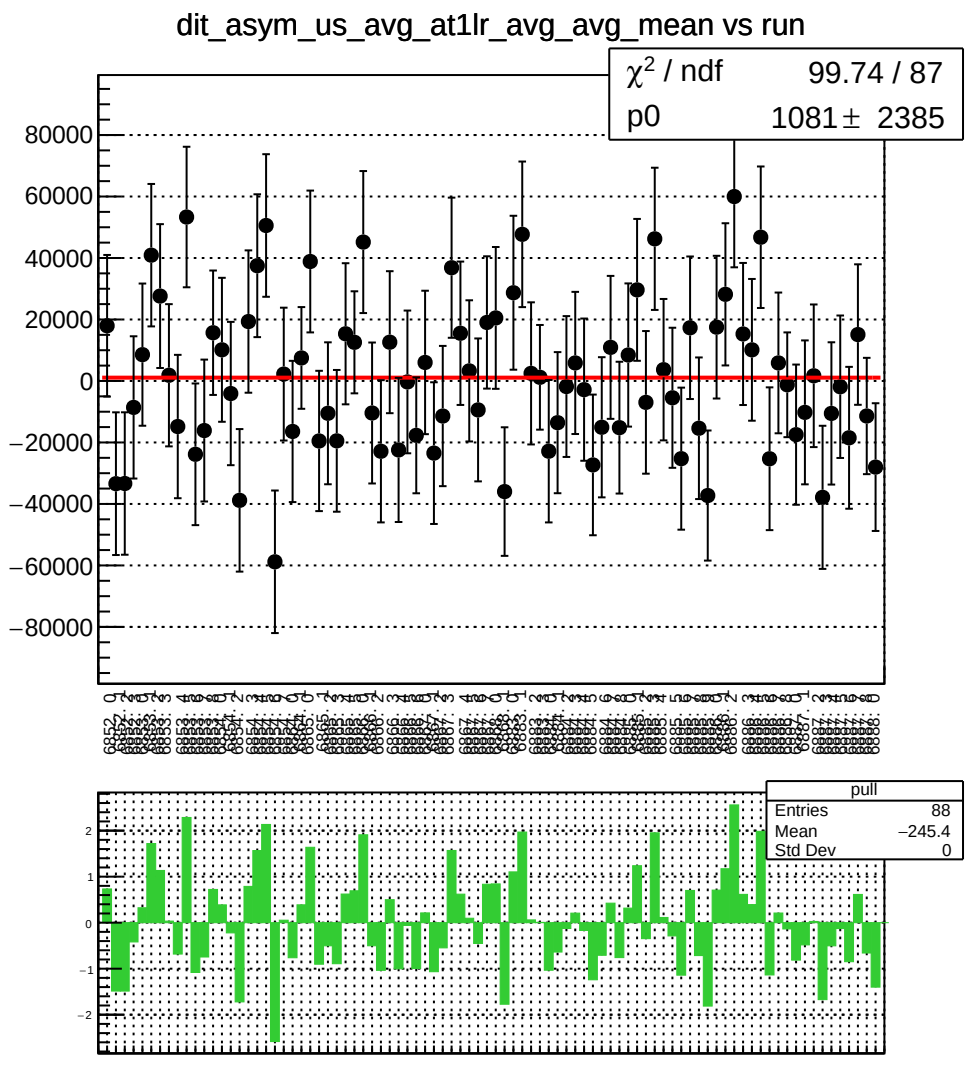

pull1D
Entries 88
Mean 0.005308
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

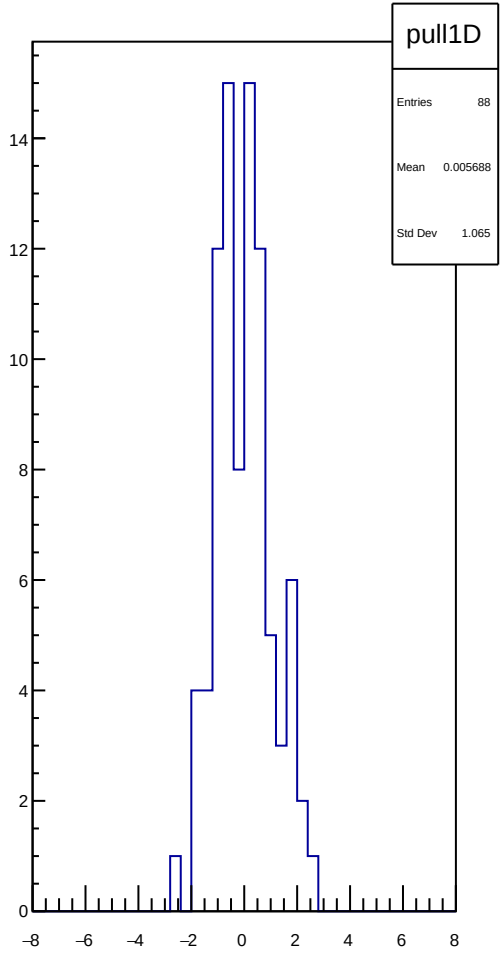

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 201 / 87
p0 2191 ± 1.685
2400
2350
2300
2250
2200
2150

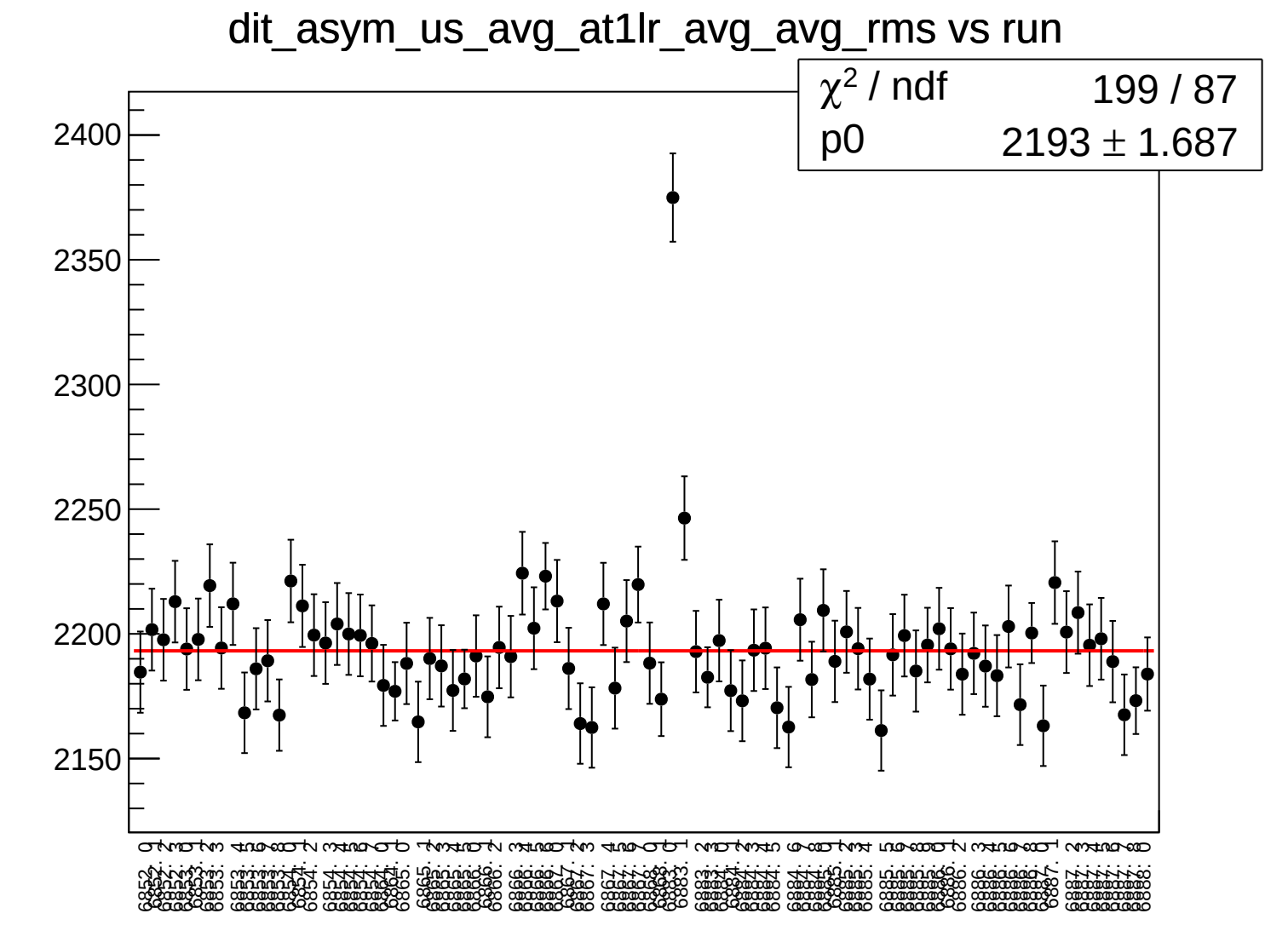

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.5 / 87
p0 −2050 ± 1825
pull
Entries 88
Mean 54.86
Std Dev 0

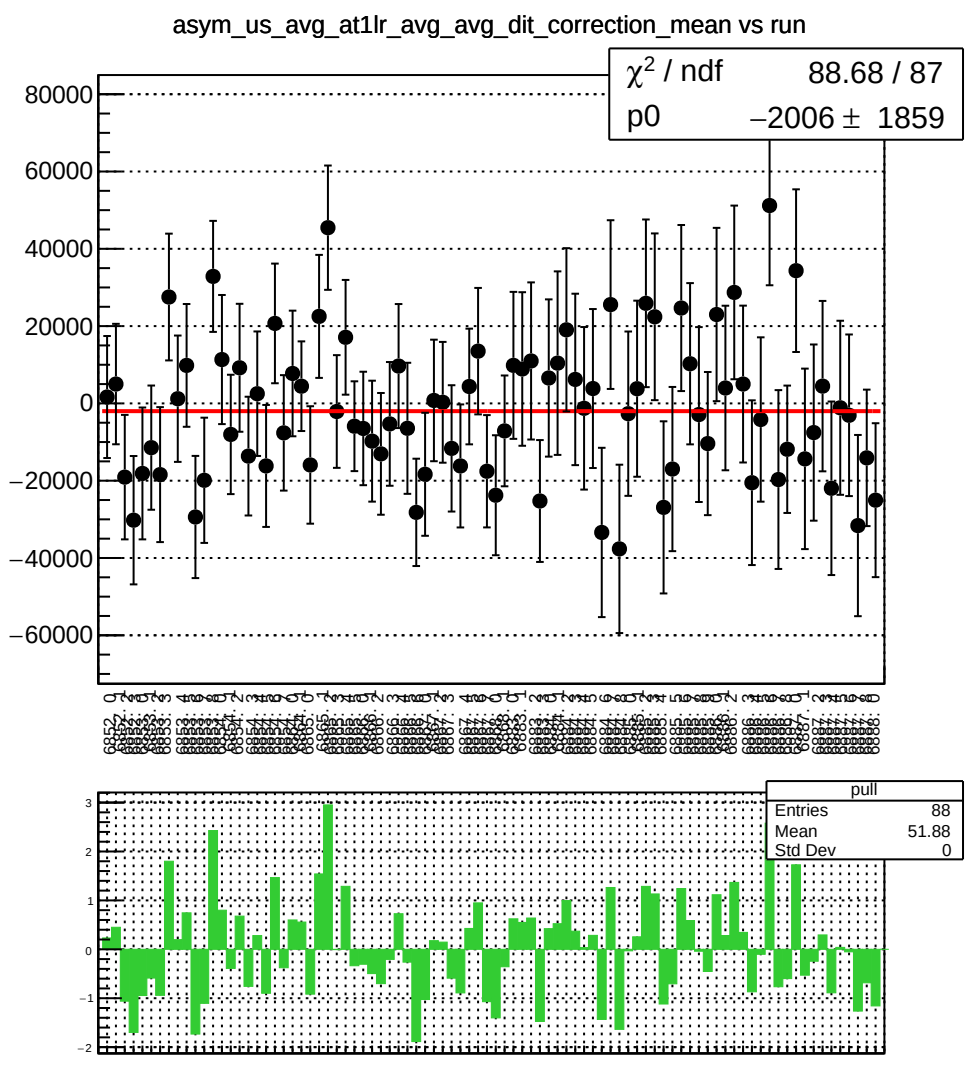

pull1D
Entries 88
Mean 0.01995
Std Dev 1.008

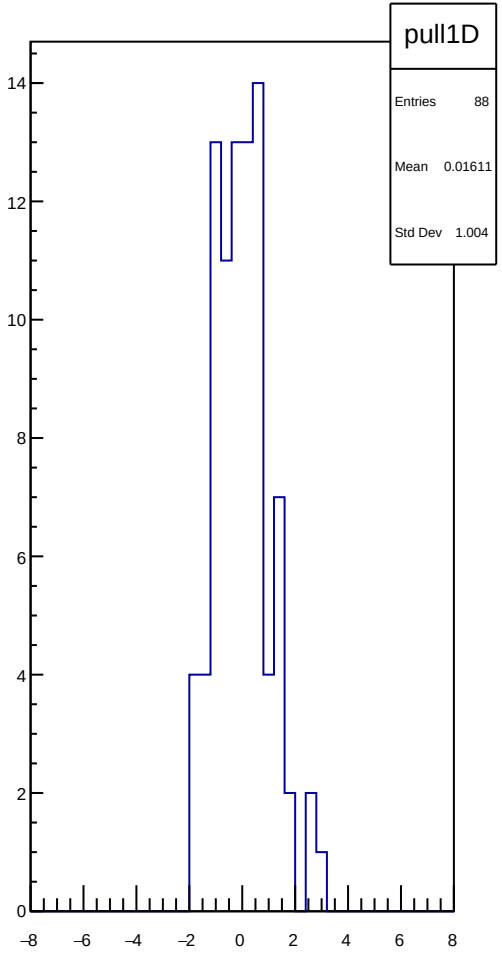

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.968e+04 / 87
p0 1658 ± 1.29
2200
2000
1800
1600
1400

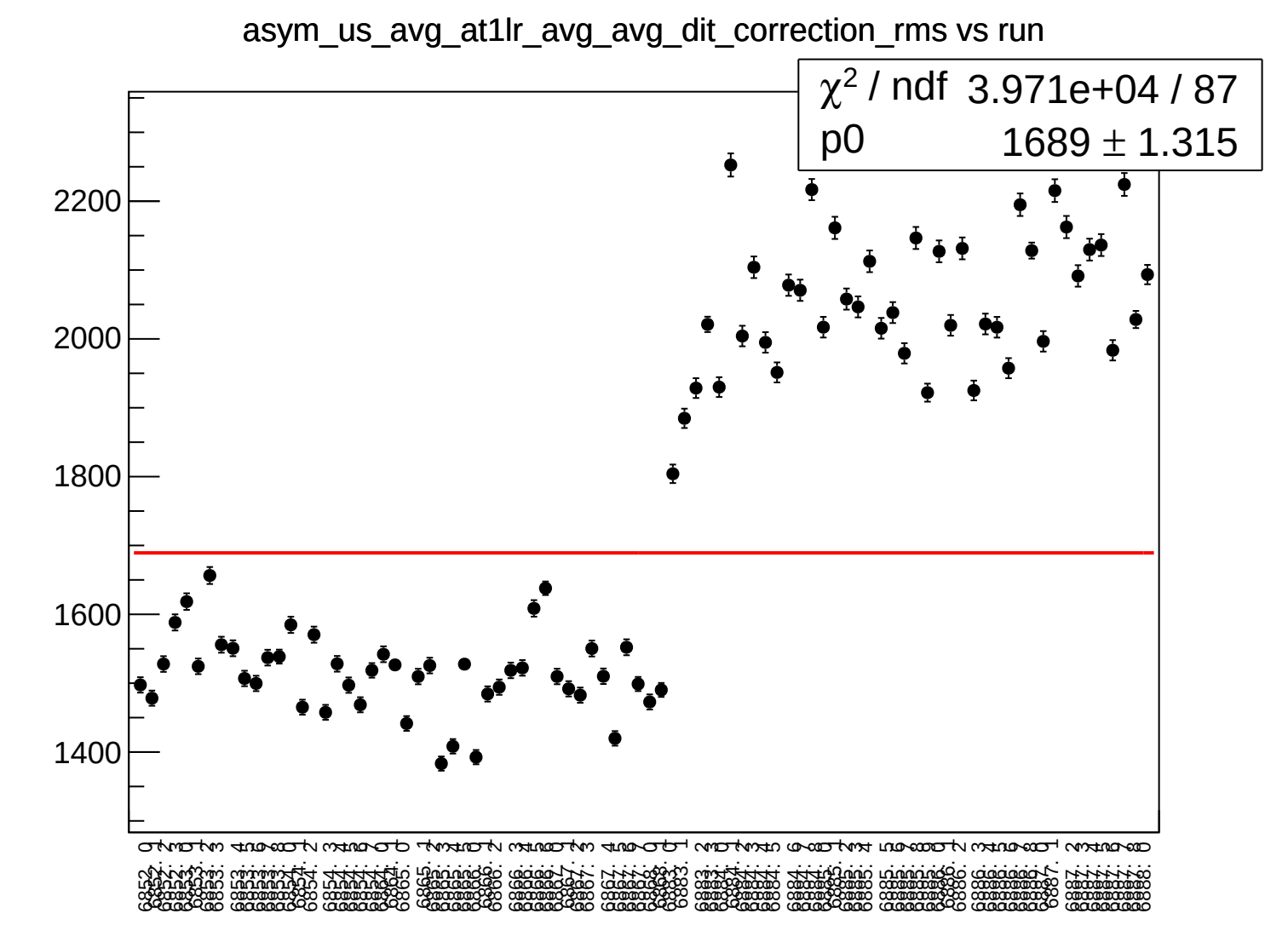

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 99.74 / 87
p0 1081 ± 2385
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −245.4
Std Dev 0
2
1
0
−1
−2

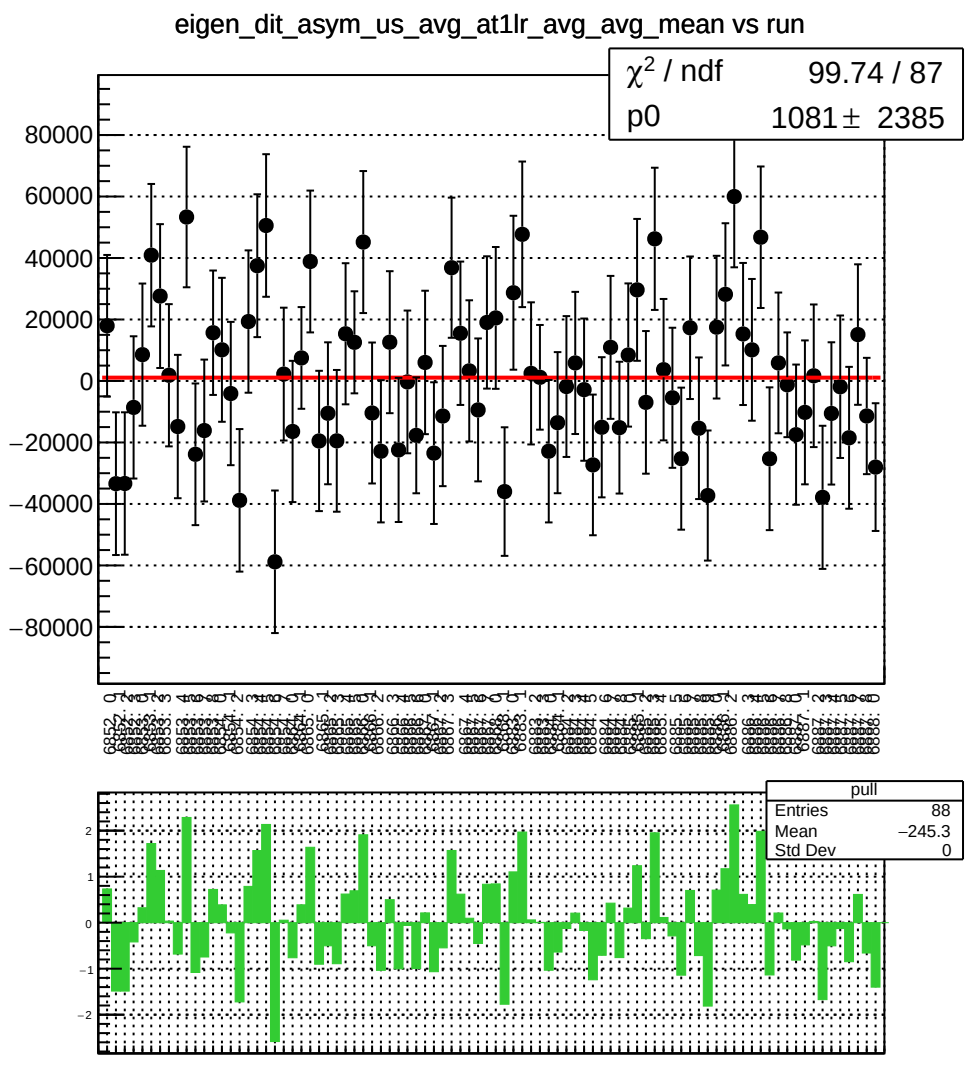

pull1D
Entries 88
Mean 0.005688
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

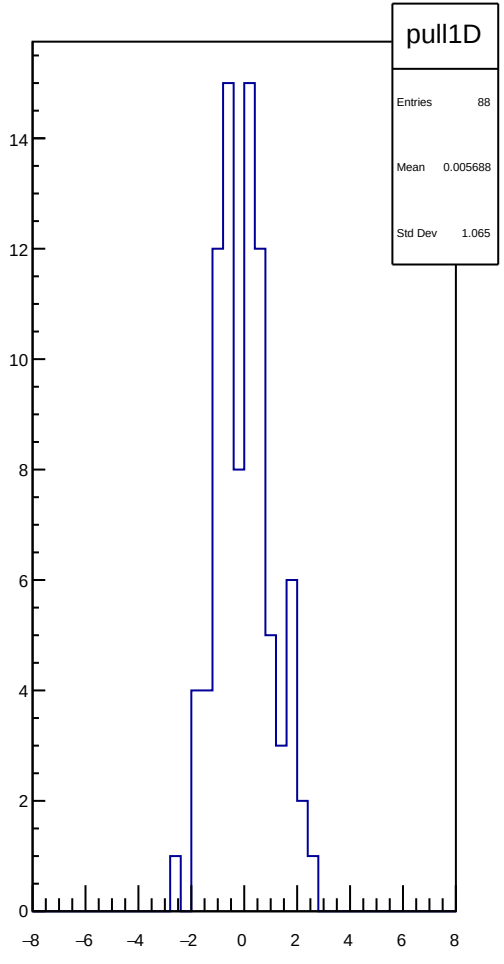

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 199 / 87
p0 2193 ± 1.687
2400
2350
2300
2250
2200
2150

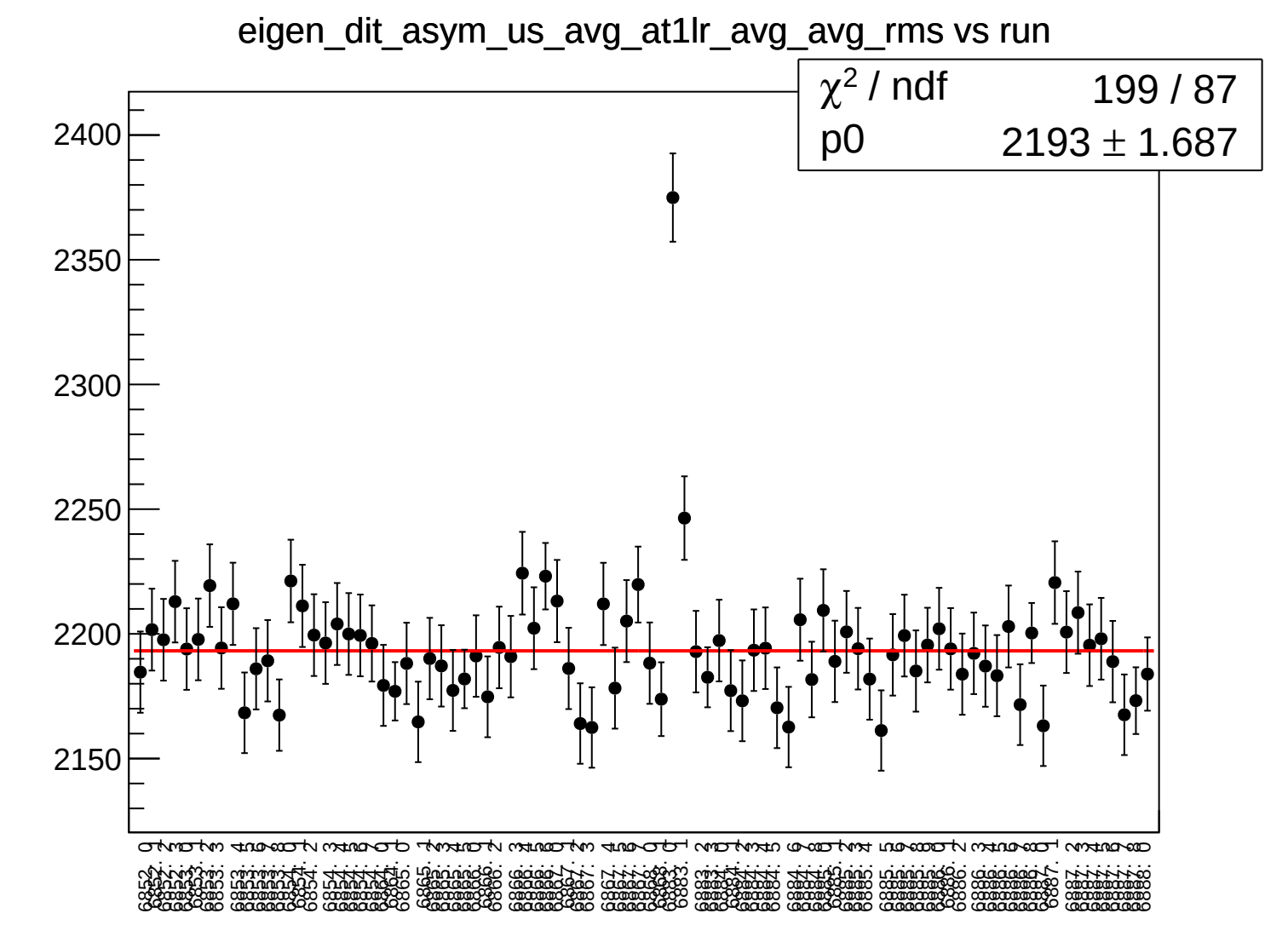

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 88.68 / 87
p0 −2006 ± 1859
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 51.88
Std Dev 0
3
2
1
0
−1
−2

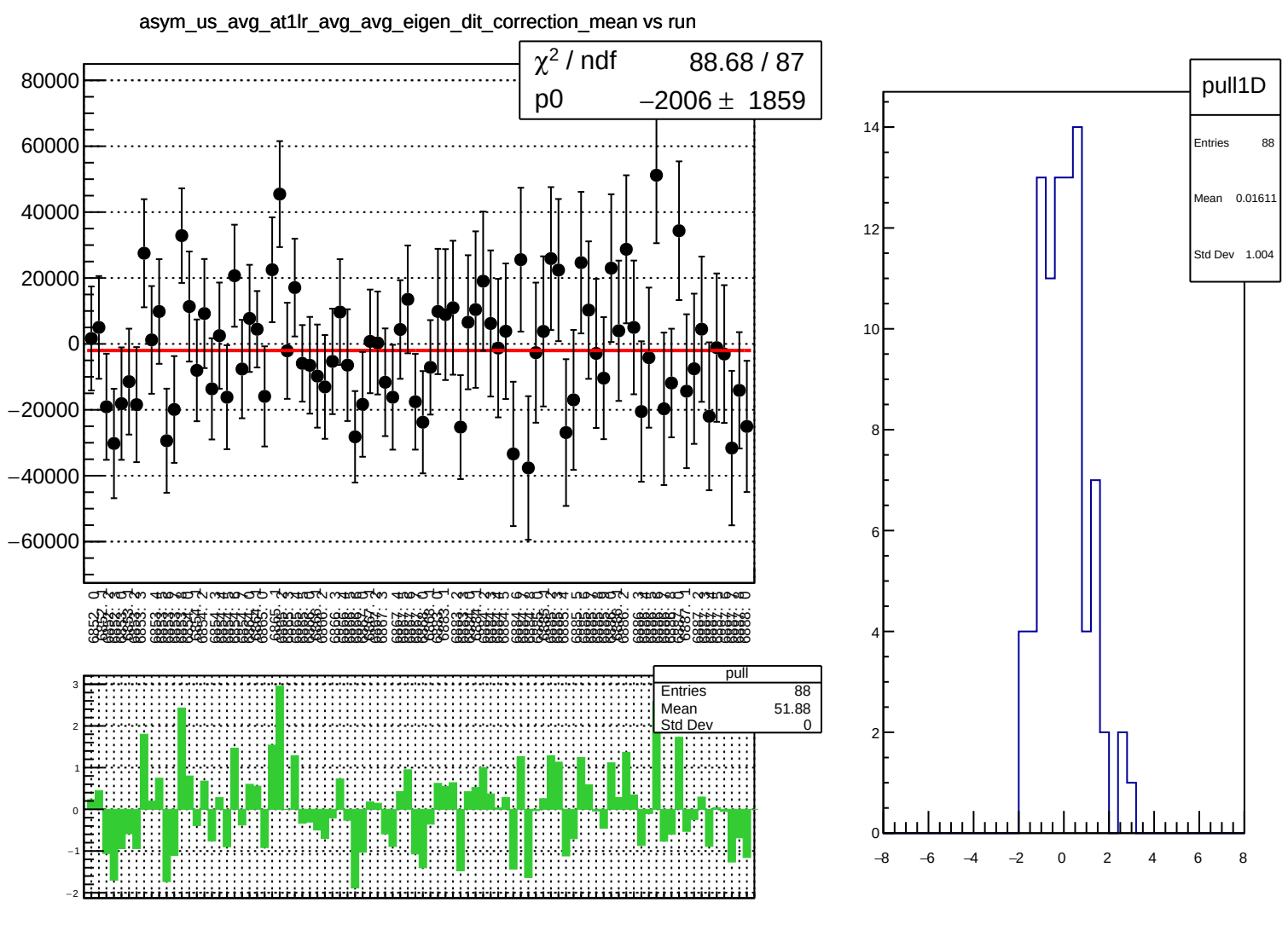

pull1D
Entries 88
Mean 0.01611
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

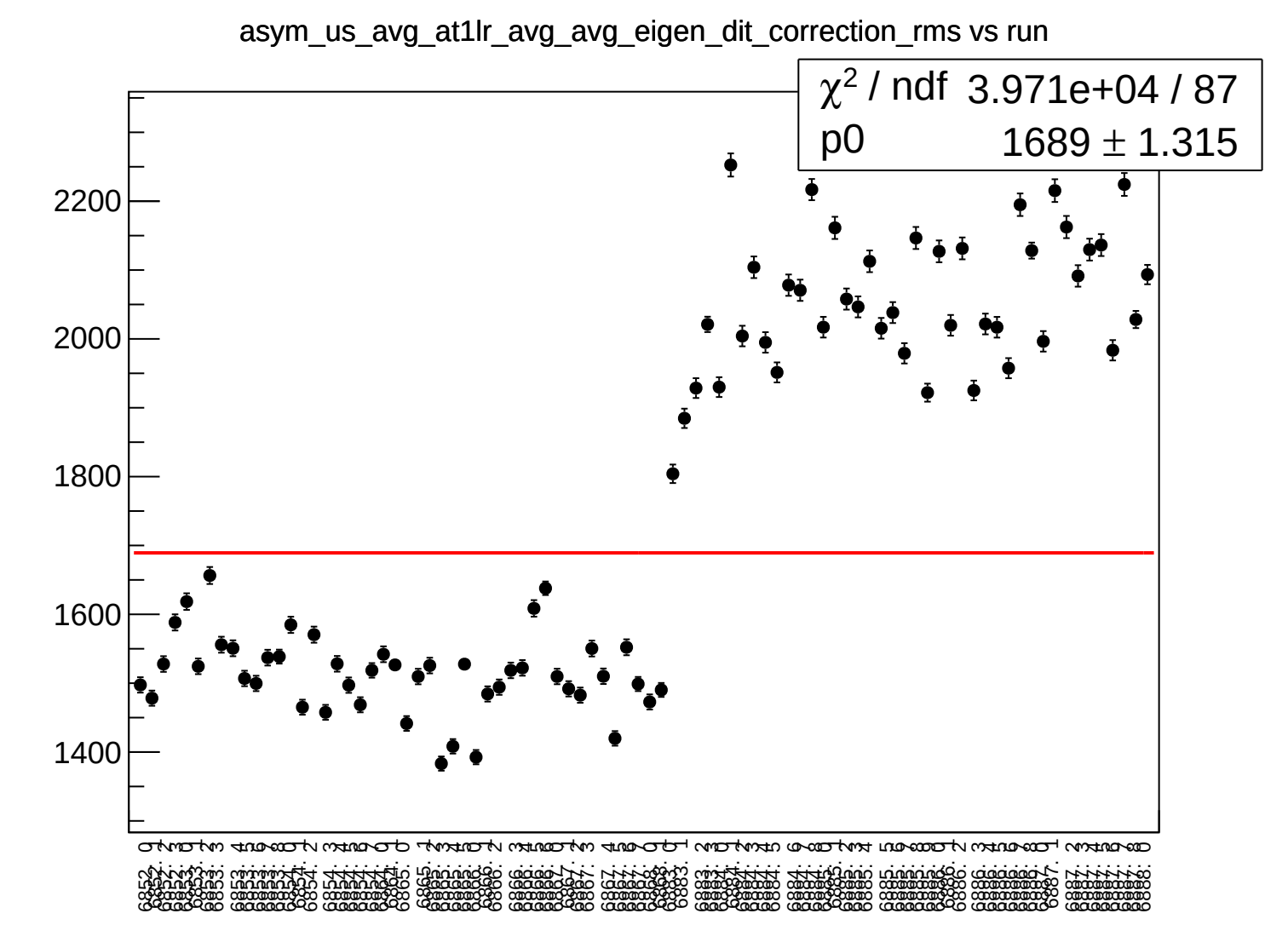

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.971e+04 / 87
p0 1689 ± 1.315
2200
2000
1800
1600
1400

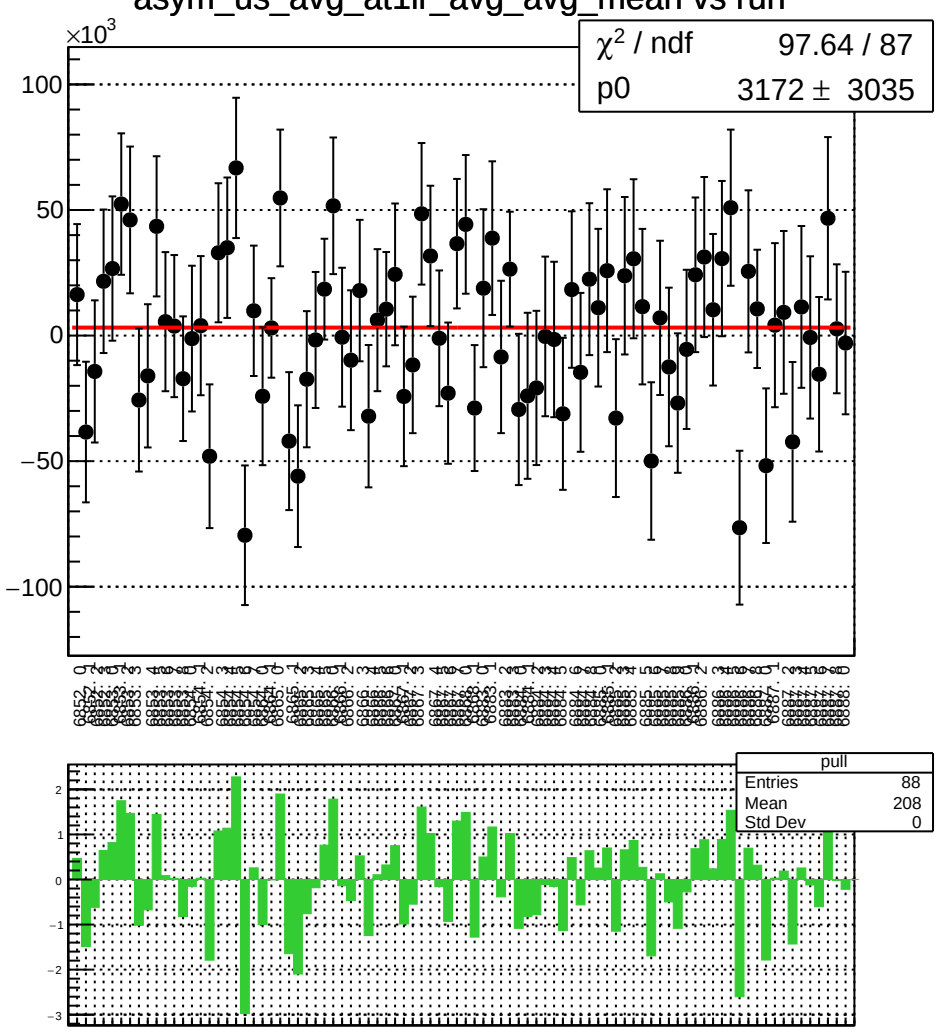

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 99.74 / 87
p0 1081 ± 2385
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −245.3
Std Dev 0
2
1
0
−1
−2

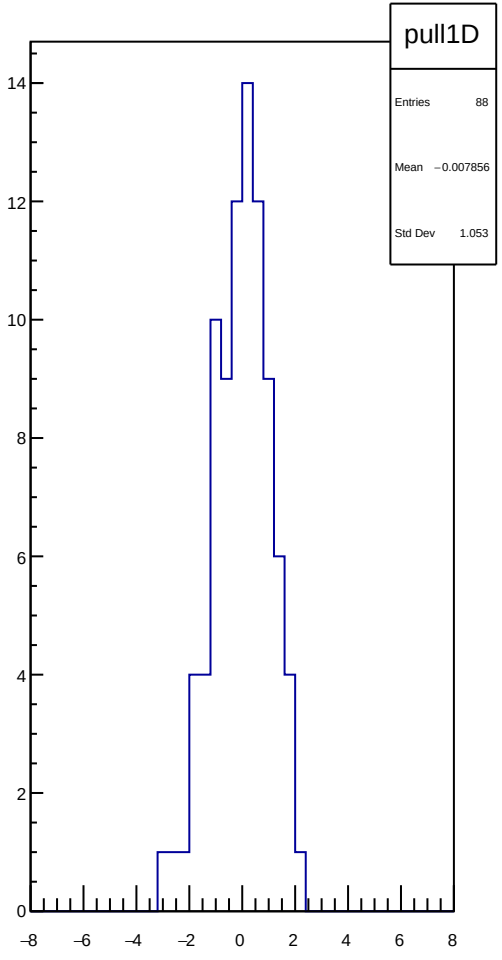

pull1D
Entries 88
Mean 0.005688
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

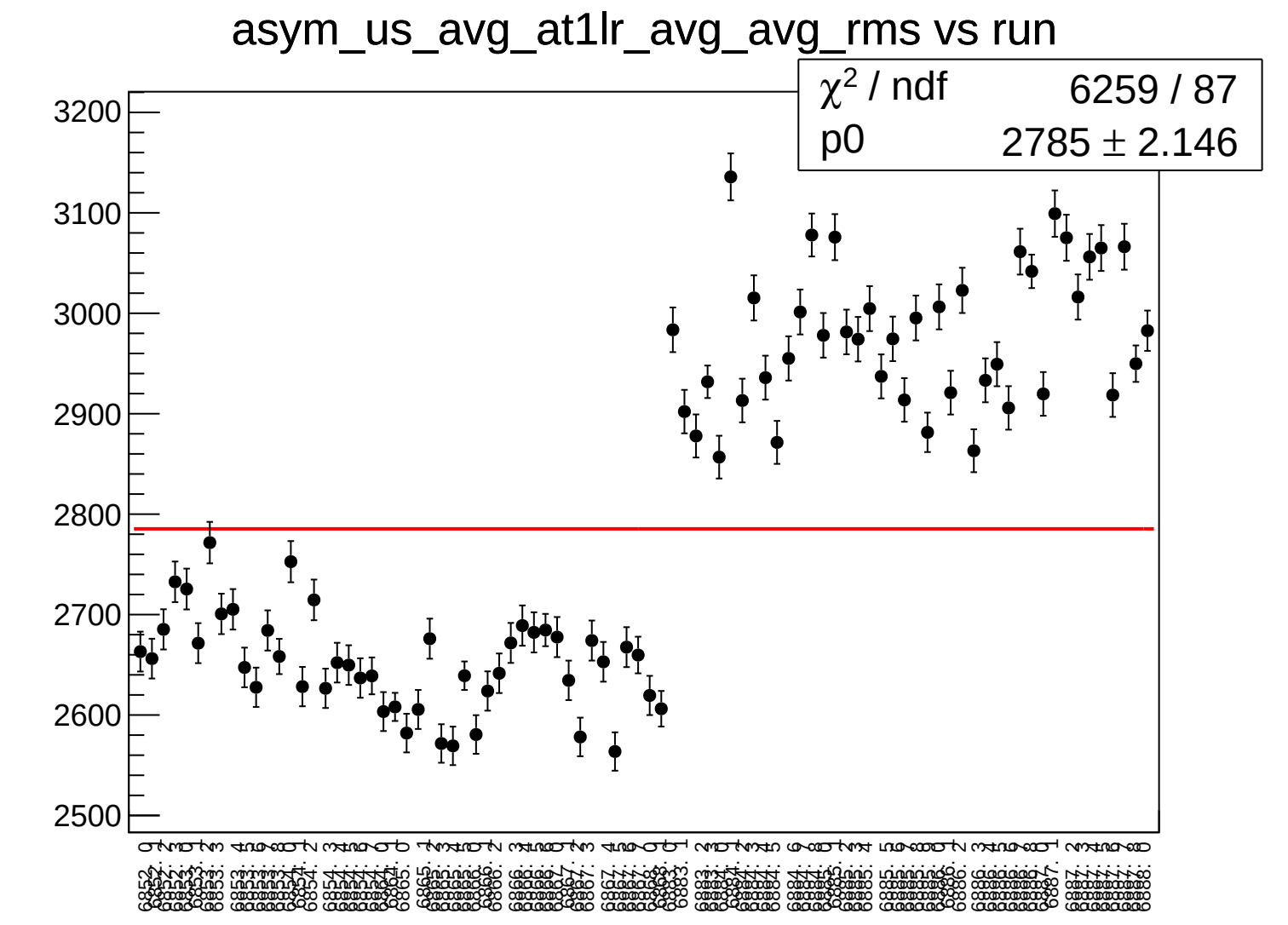

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 199 / 87
p0 2193 ± 1.687
2400
2350
2300
2250
2200
2150

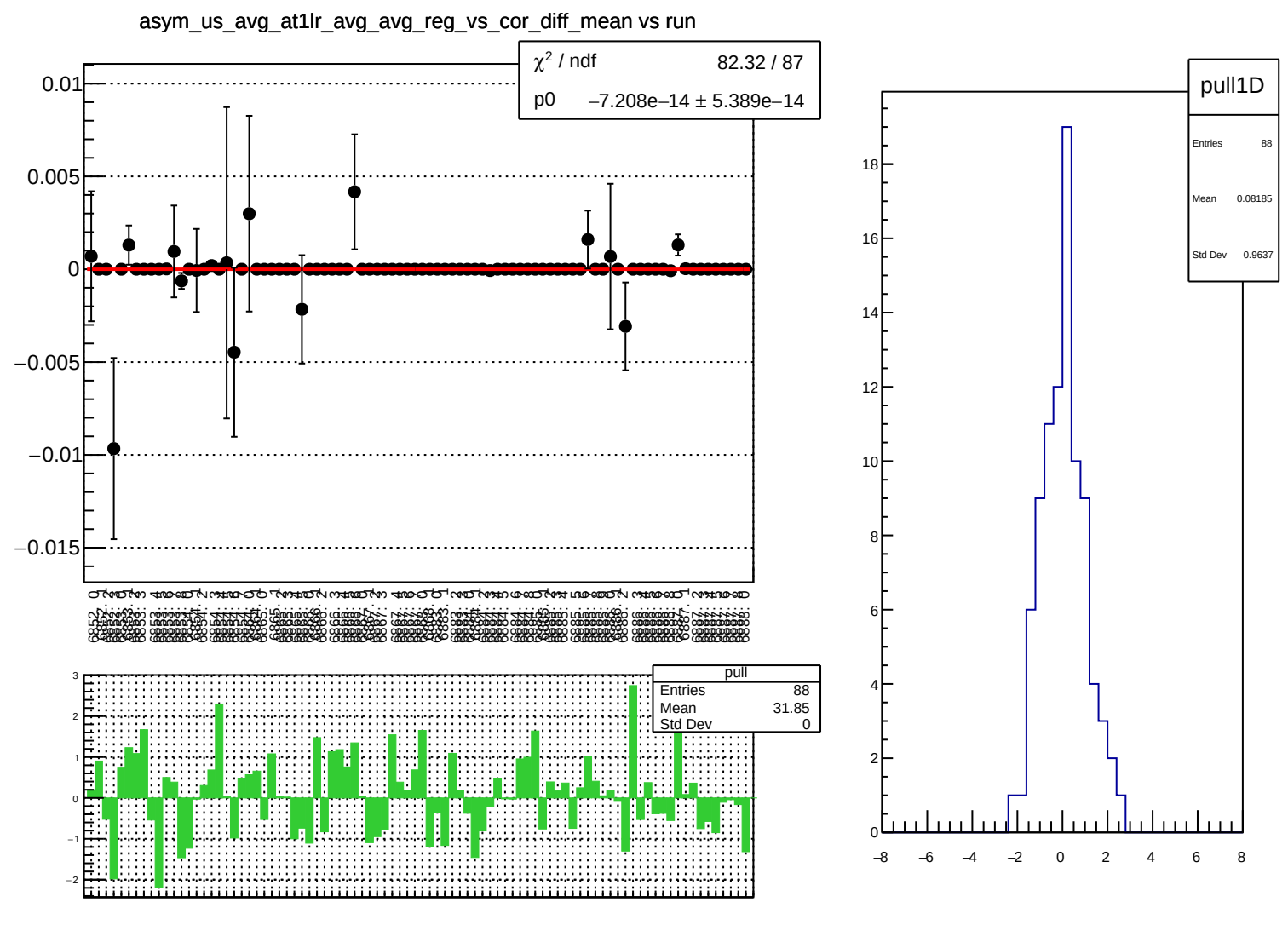

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.68 / 87
p0 −2006 ± 1859
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 51.88
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01611
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

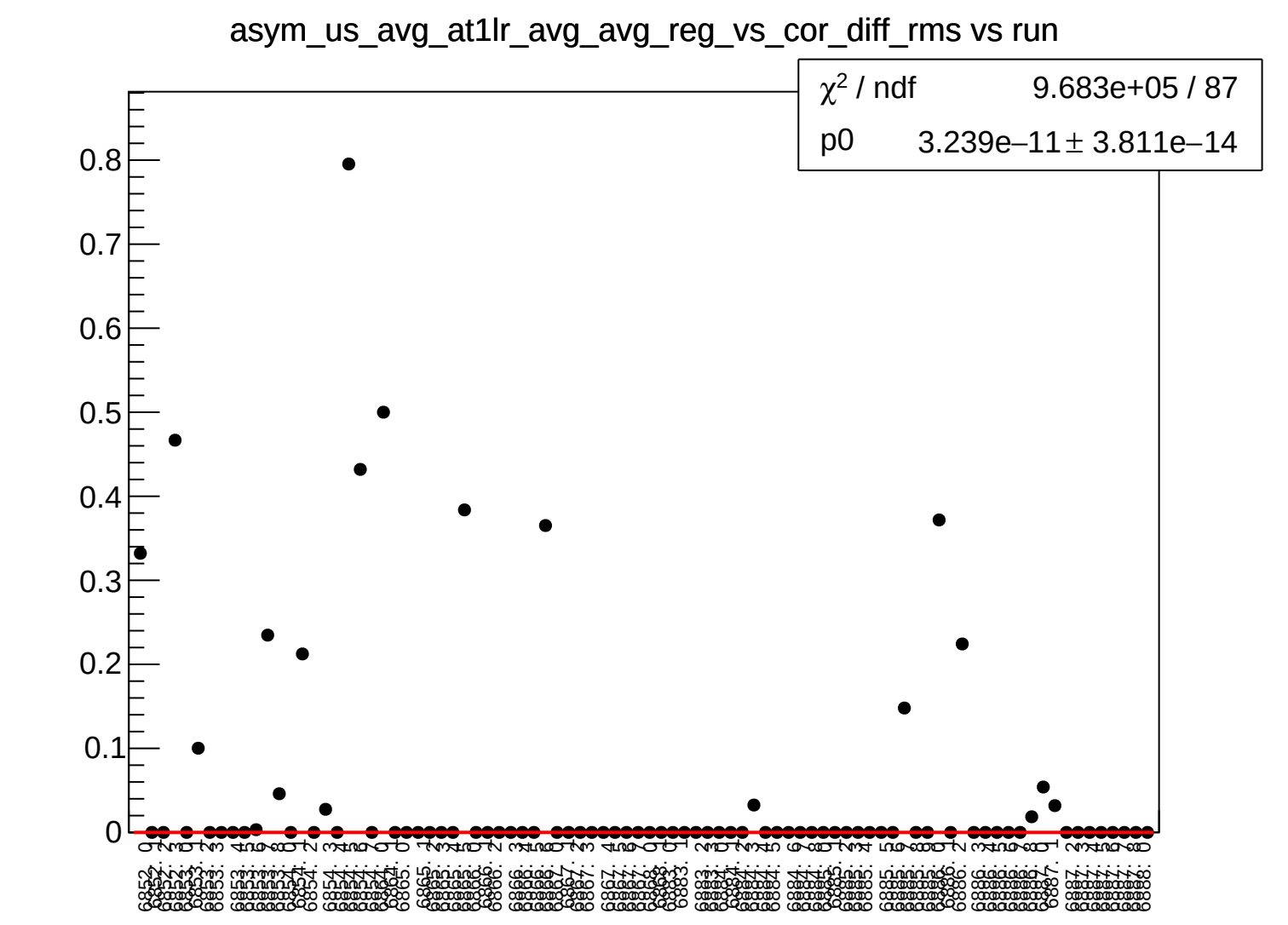

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.971e+04 / 87
p0 1689 ± 1.315
2200
2000
1800
1600
1400

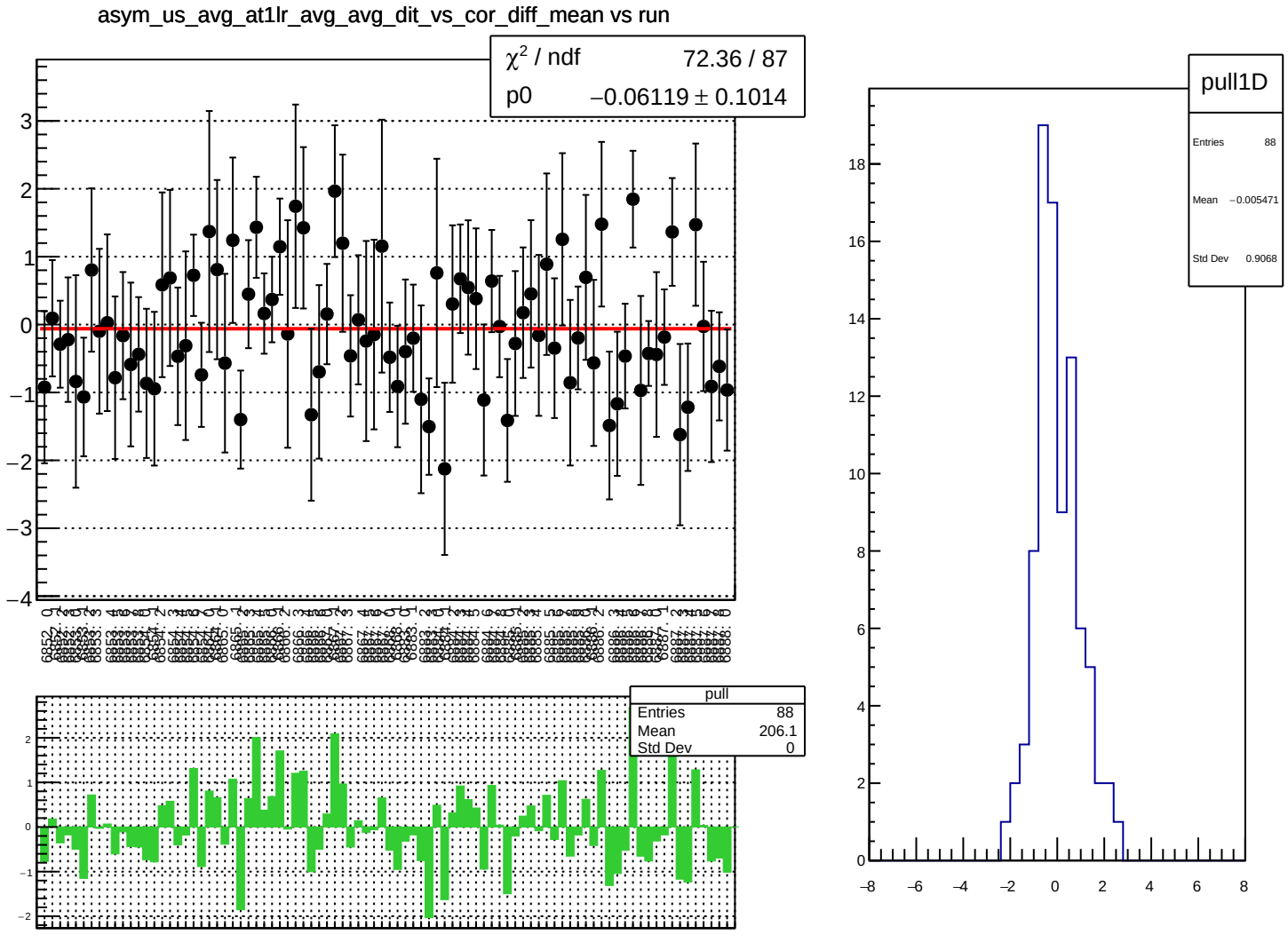

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 97.64 / 87
p0 3172 ± 3035
100
50
0
−50
−100
pull
Entries 88
Mean 208
Std Dev 0
2
1
0
−1
−2
−3

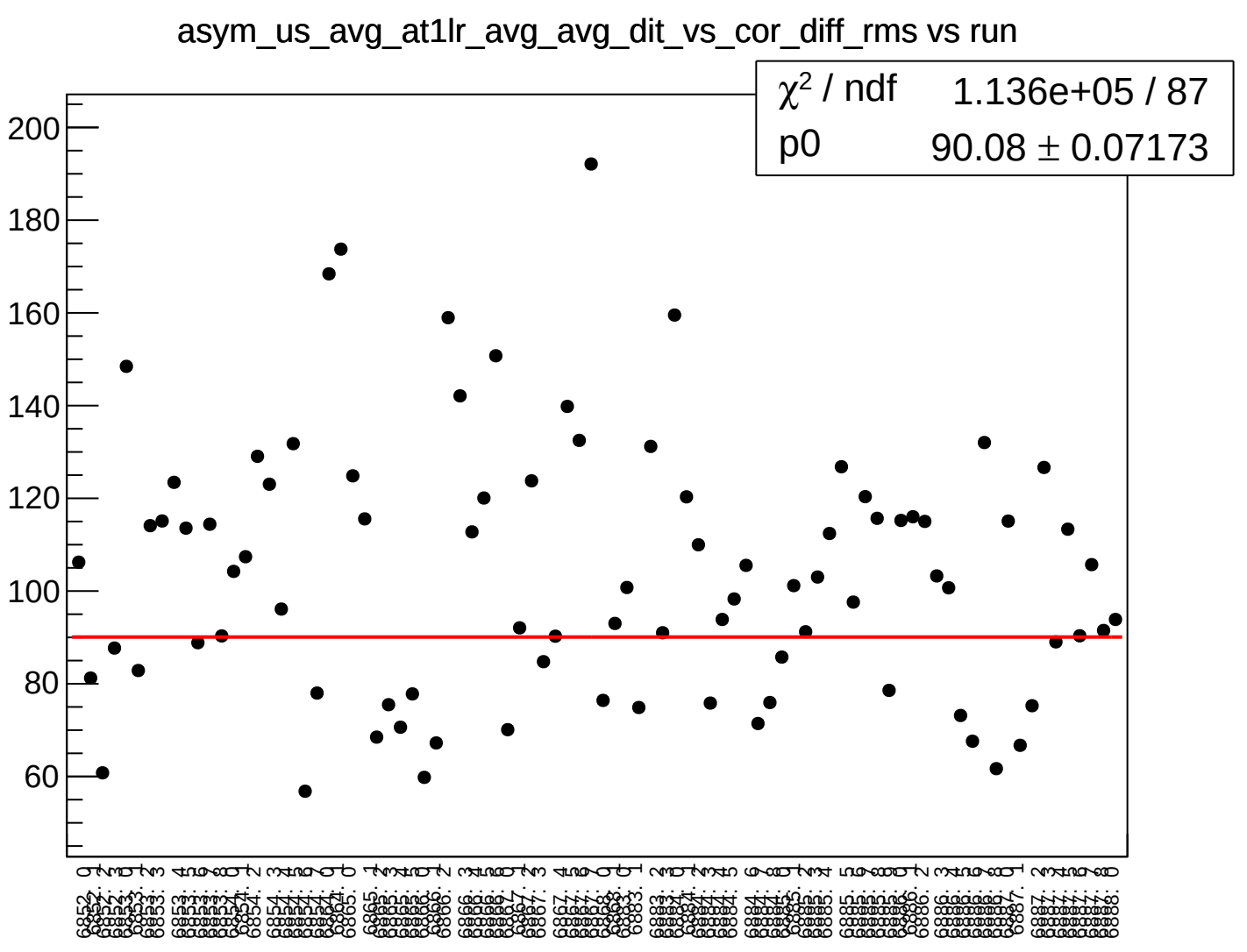

pull1D
Entries 88
Mean −0.007856
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

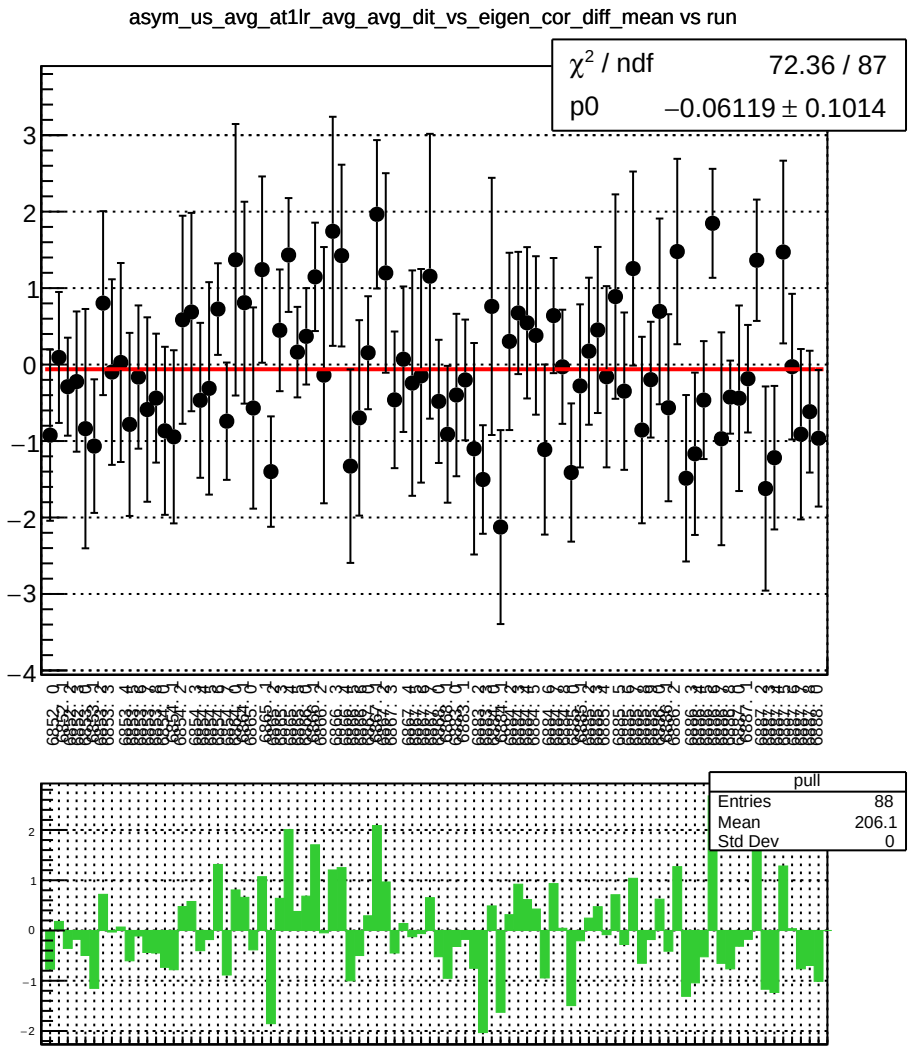

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 6259 / 87
p0 2785 ± 2.146
3200
3100
3000
2900
2800
2700
2600
2500

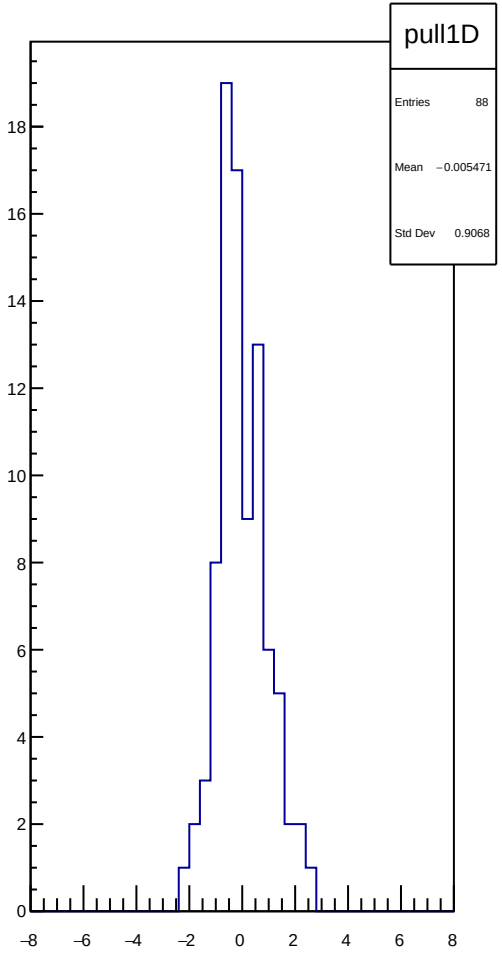

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.32 / 87
p0 −7.208e−14 ± 5.389e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 31.85
Std Dev 0
pull1D
Entries 88
Mean 0.08185
Std Dev 0.9637

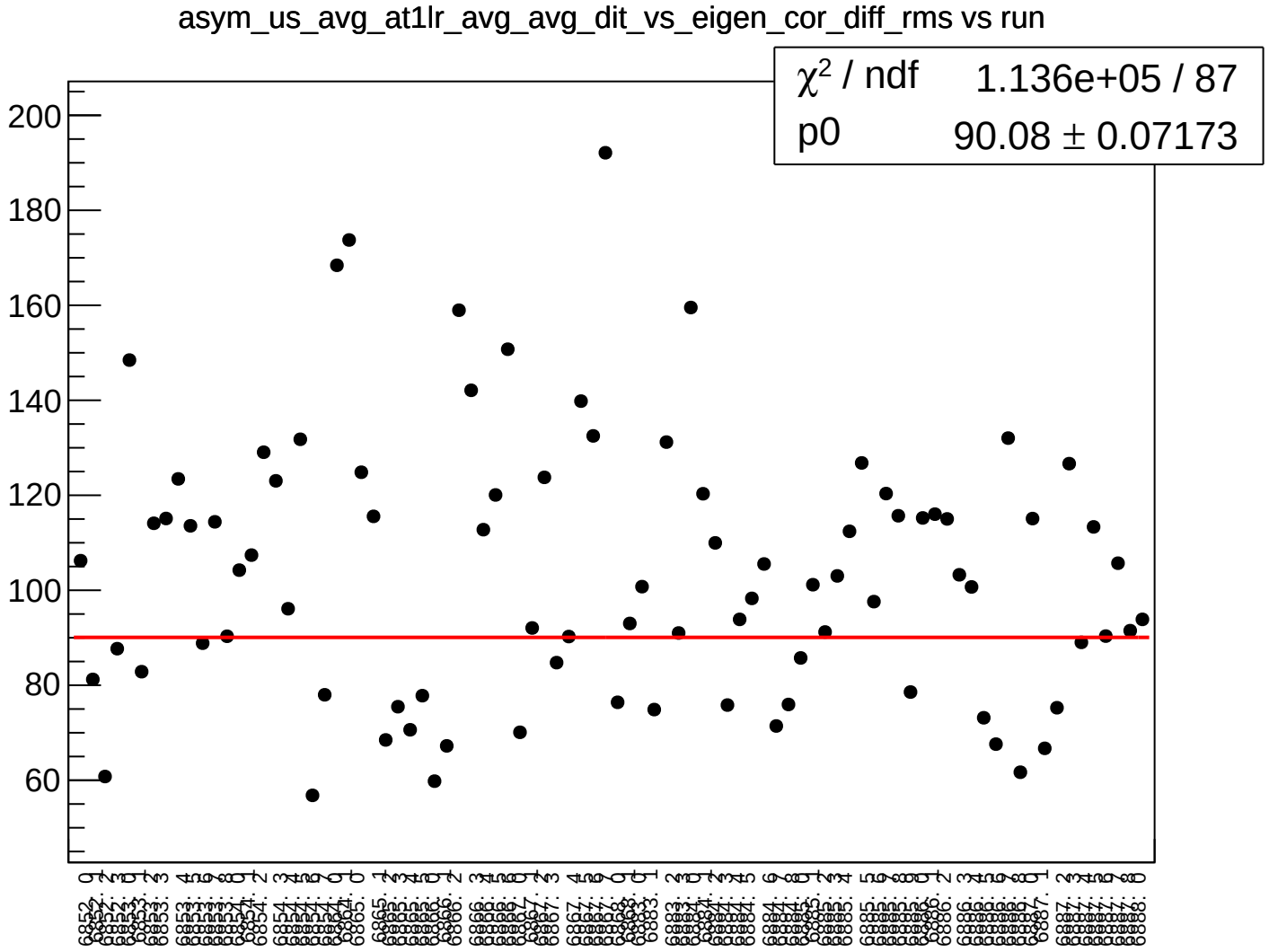

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.683e+05 / 87
p0 3.239e−11 ± 3.811e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

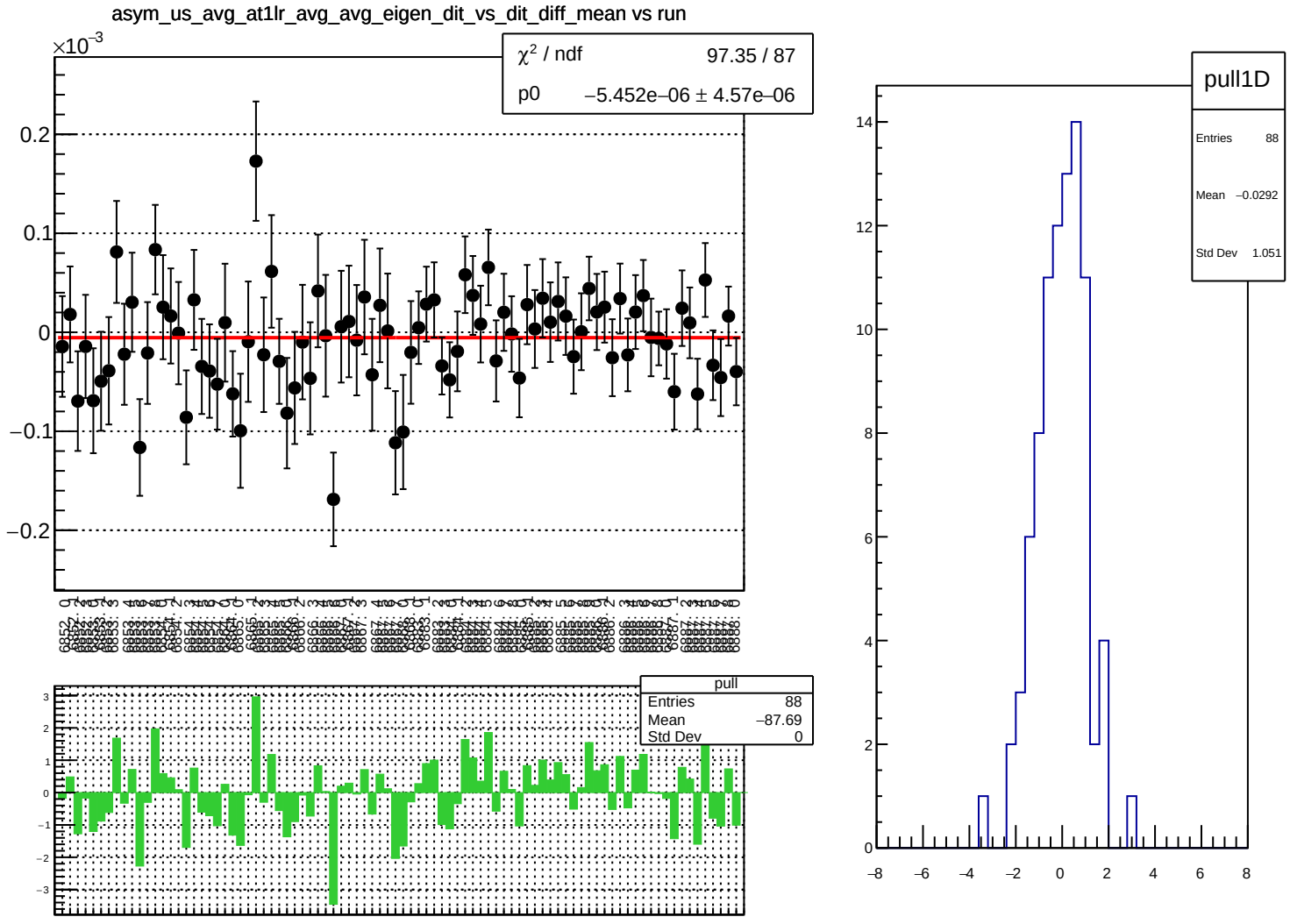

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.36 / 87
p0 −0.06119 ± 0.1014
pull
Entries 88
Mean 206.1
Std Dev 0
pull1D
Entries 88
Mean −0.005471
Std Dev 0.9068

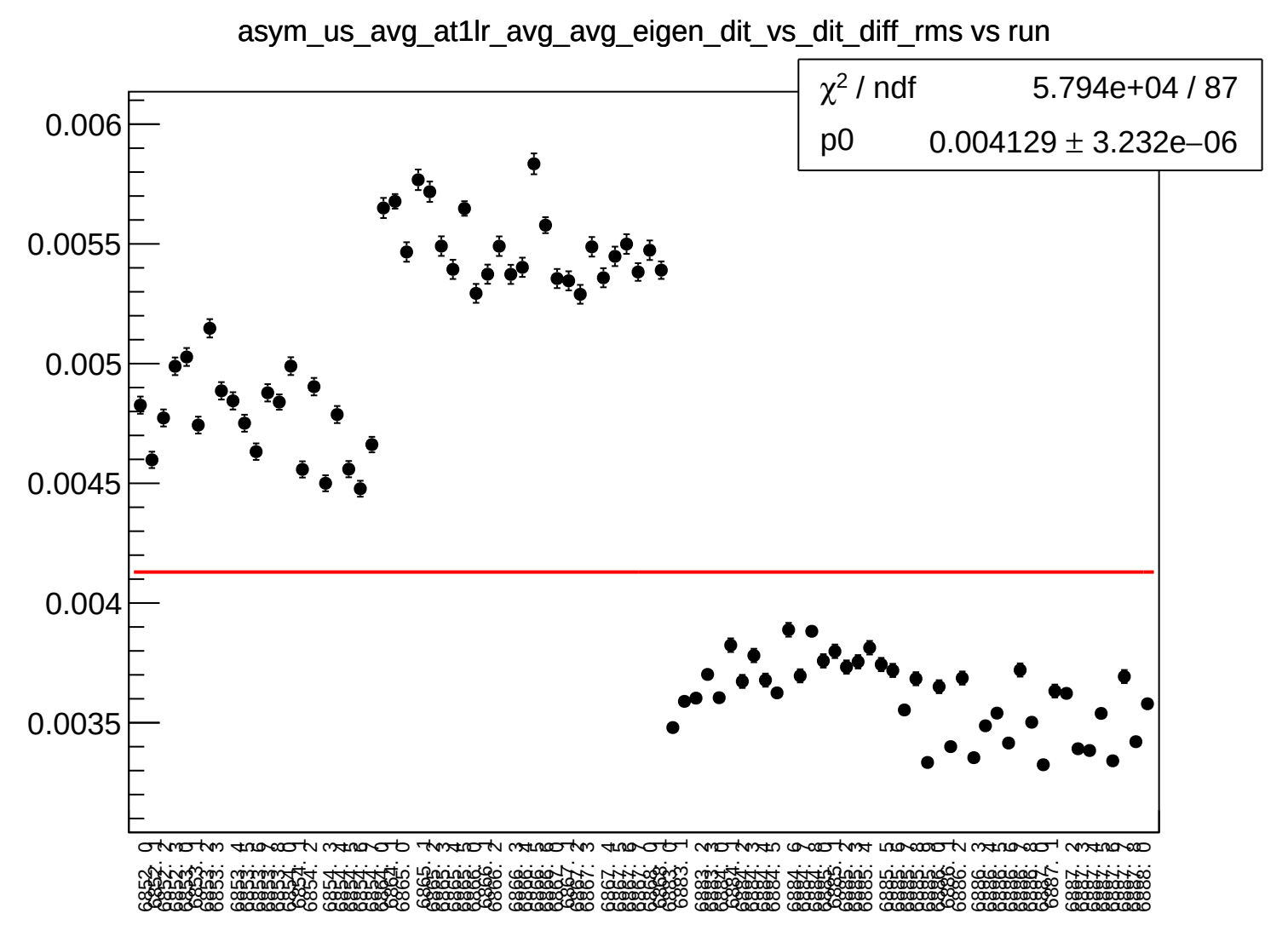

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.136e+05 / 87
p0 90.08 ± 0.07173
200
180
160
140
120
100
80
60

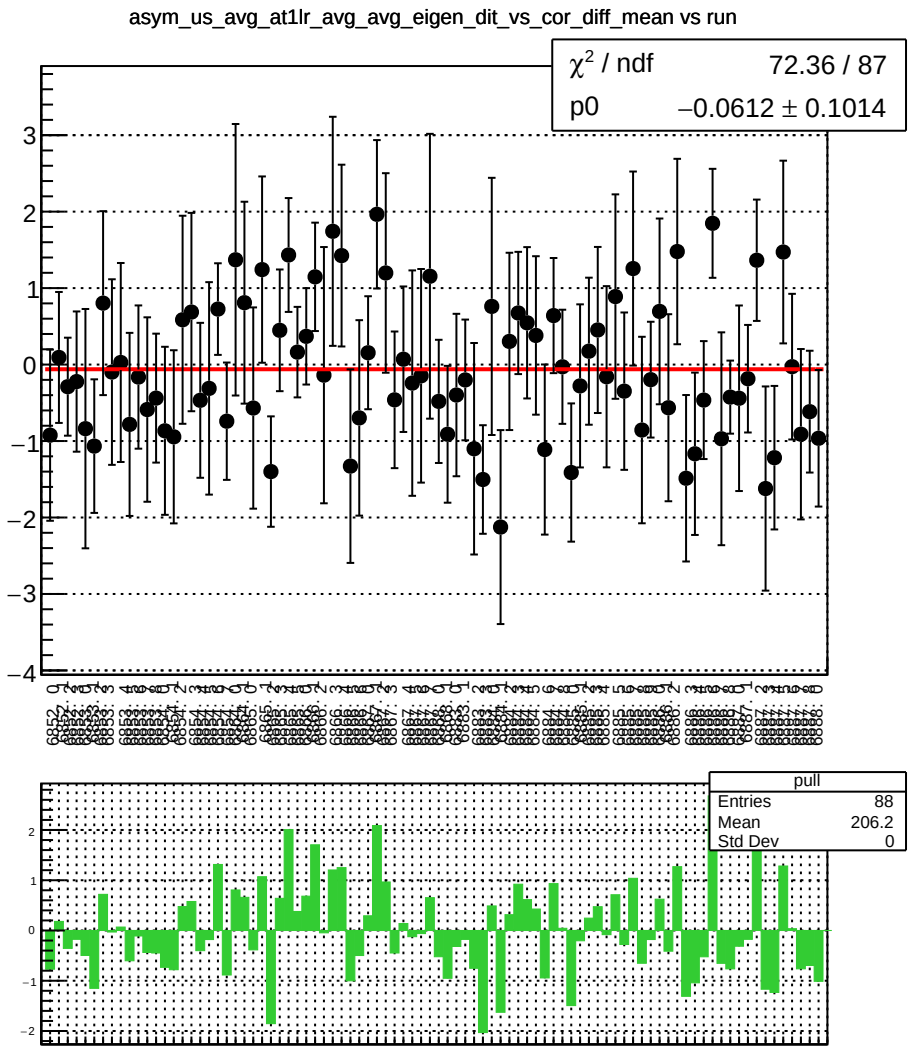

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.36 / 87
p0 −0.06119 ± 0.1014
pull
Entries 88
Mean 206.1
Std Dev 0

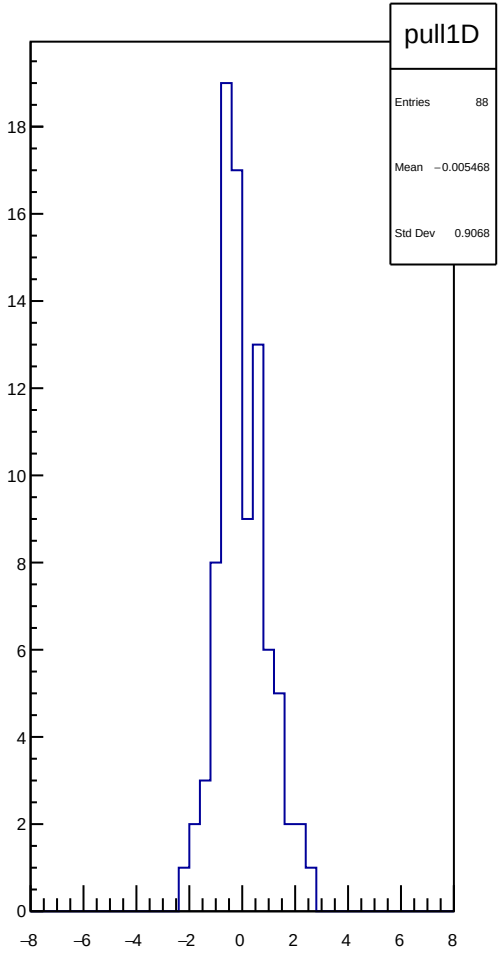

pull1D
Entries 88
Mean −0.005471
Std Dev 0.9068

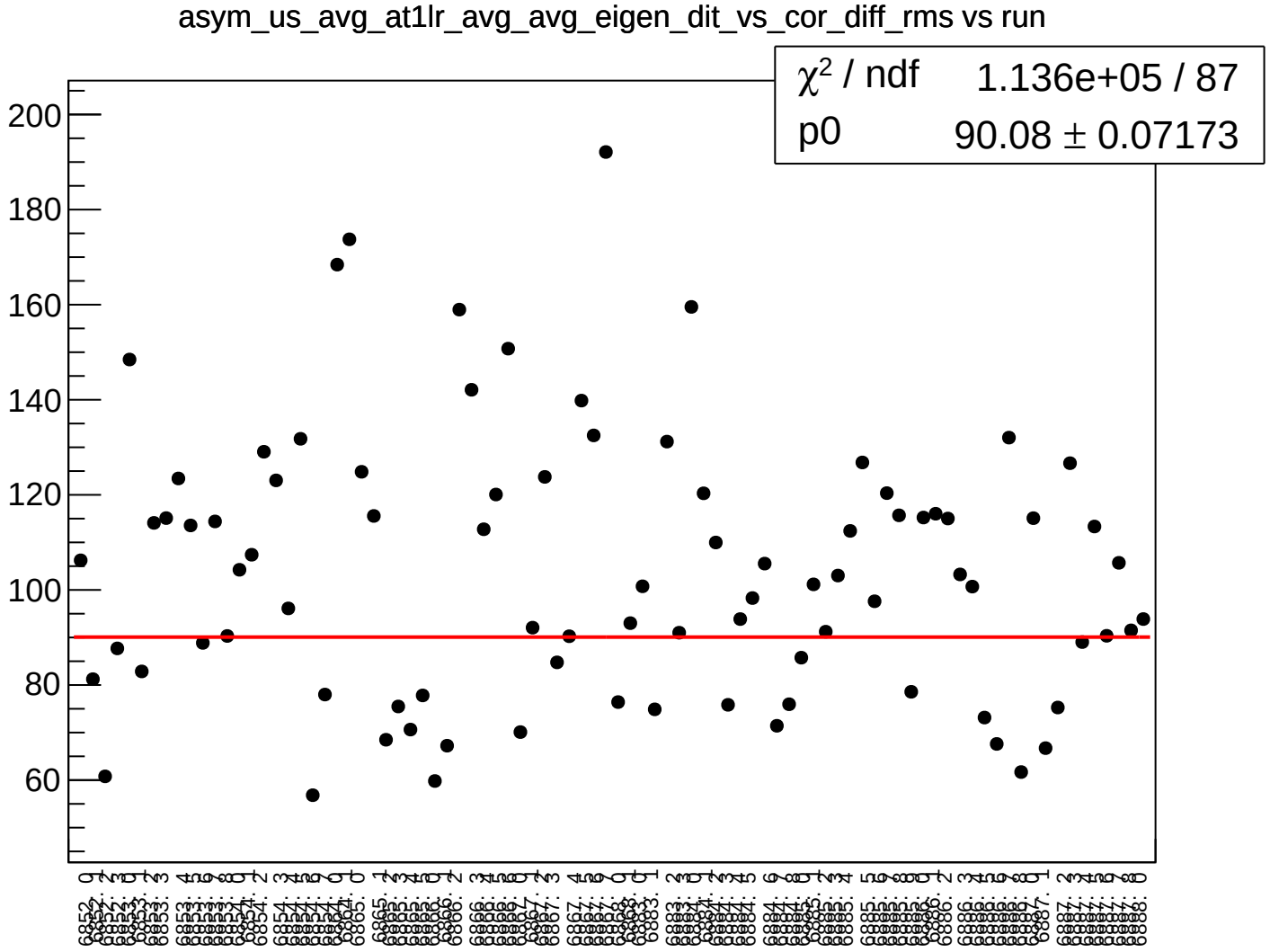

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.136e+05 / 87
p0 90.08 ± 0.07173
200
180
160
140
120
100
80
60

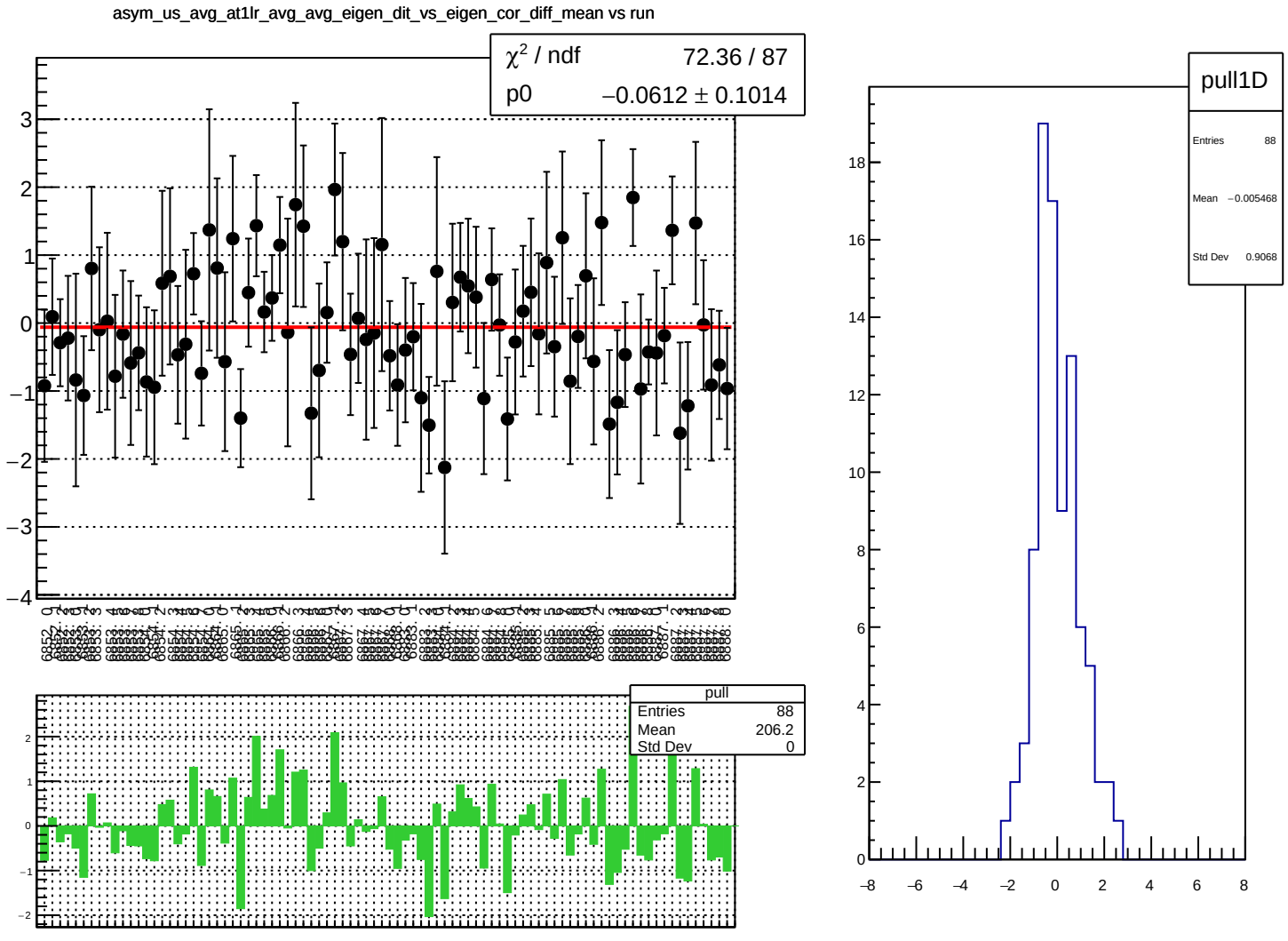

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 97.35 / 87
p0 −5.452e−06 ± 4.57e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean −87.69
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0292
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

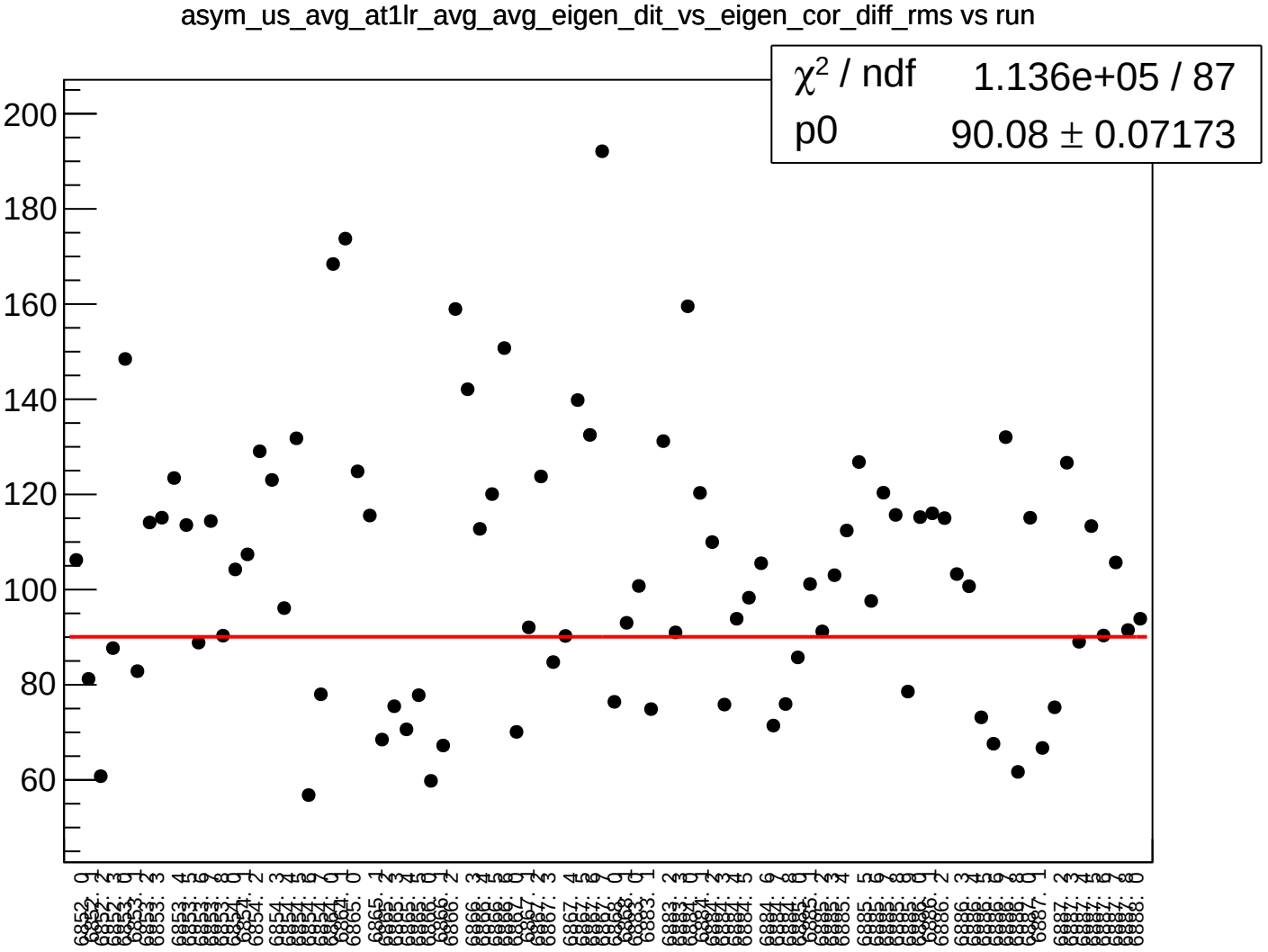

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.794e+04 / 87
p0 0.004129 ± 3.232e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035

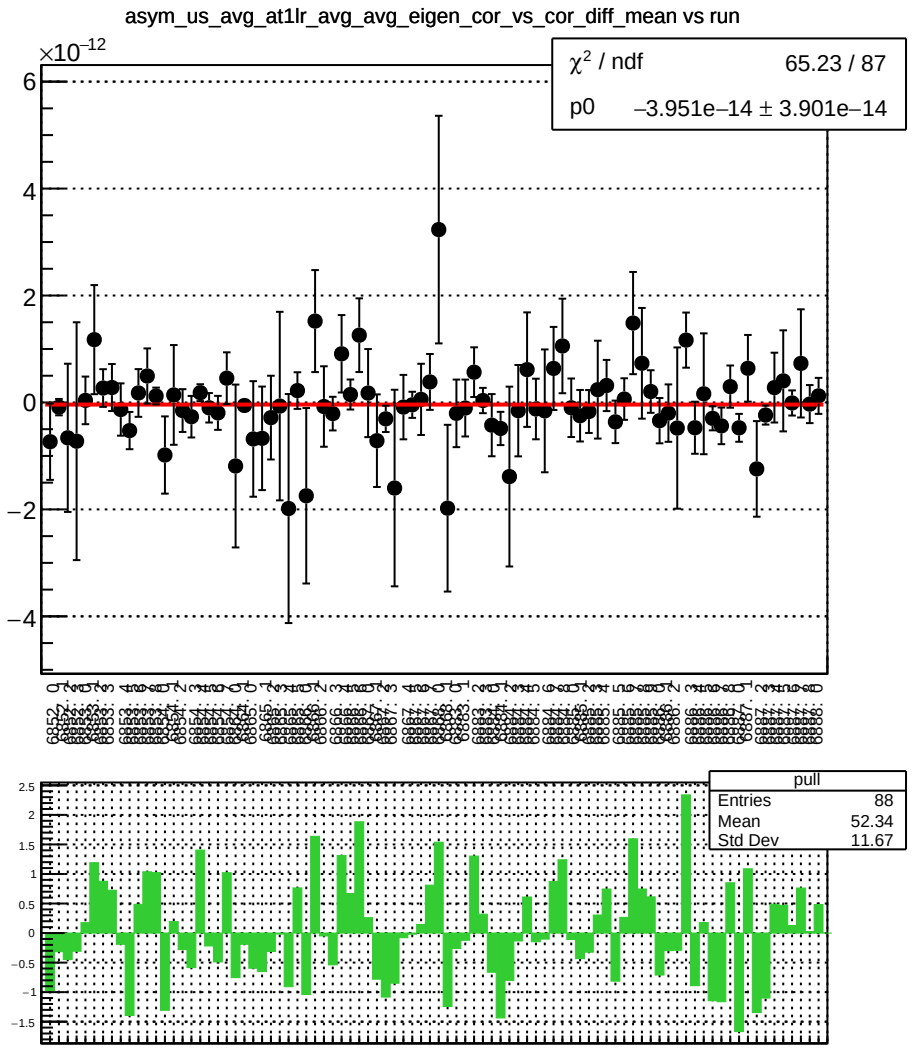

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.36 / 87
p0 −0.0612 ± 0.1014
pull
Entries 88
Mean 206.2
Std Dev 0

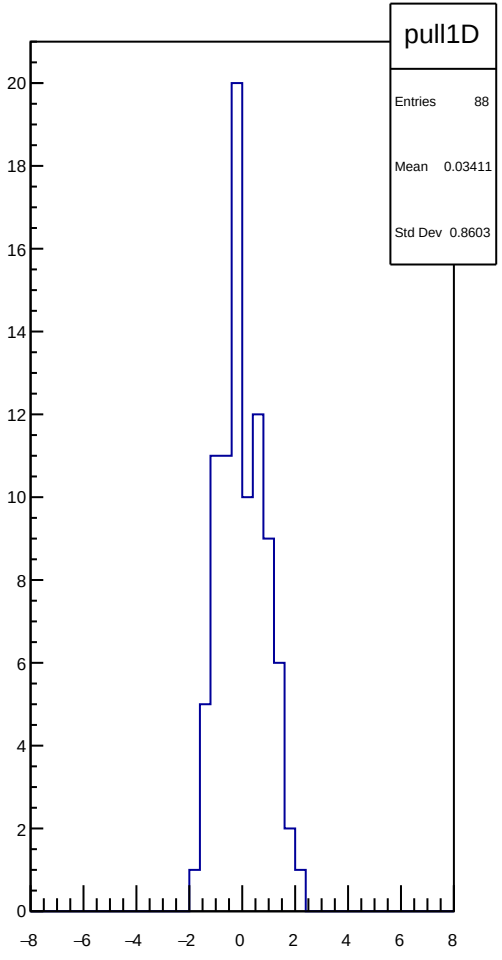

pull1D
Entries 88
Mean −0.005468
Std Dev 0.9068

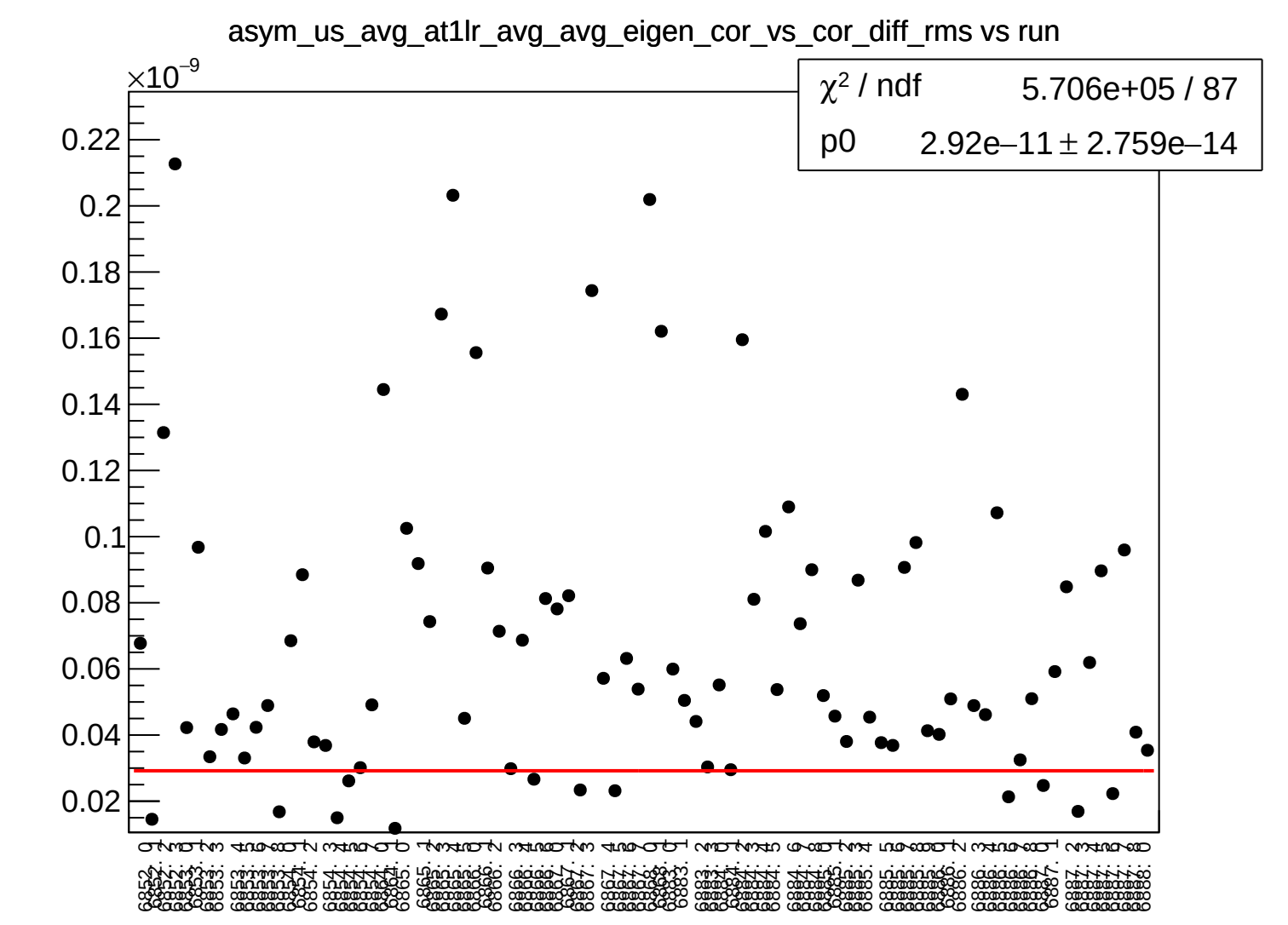

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.136e+05 / 87
p0 90.08 ± 0.07173
200
180
160
140
120
100
80
60

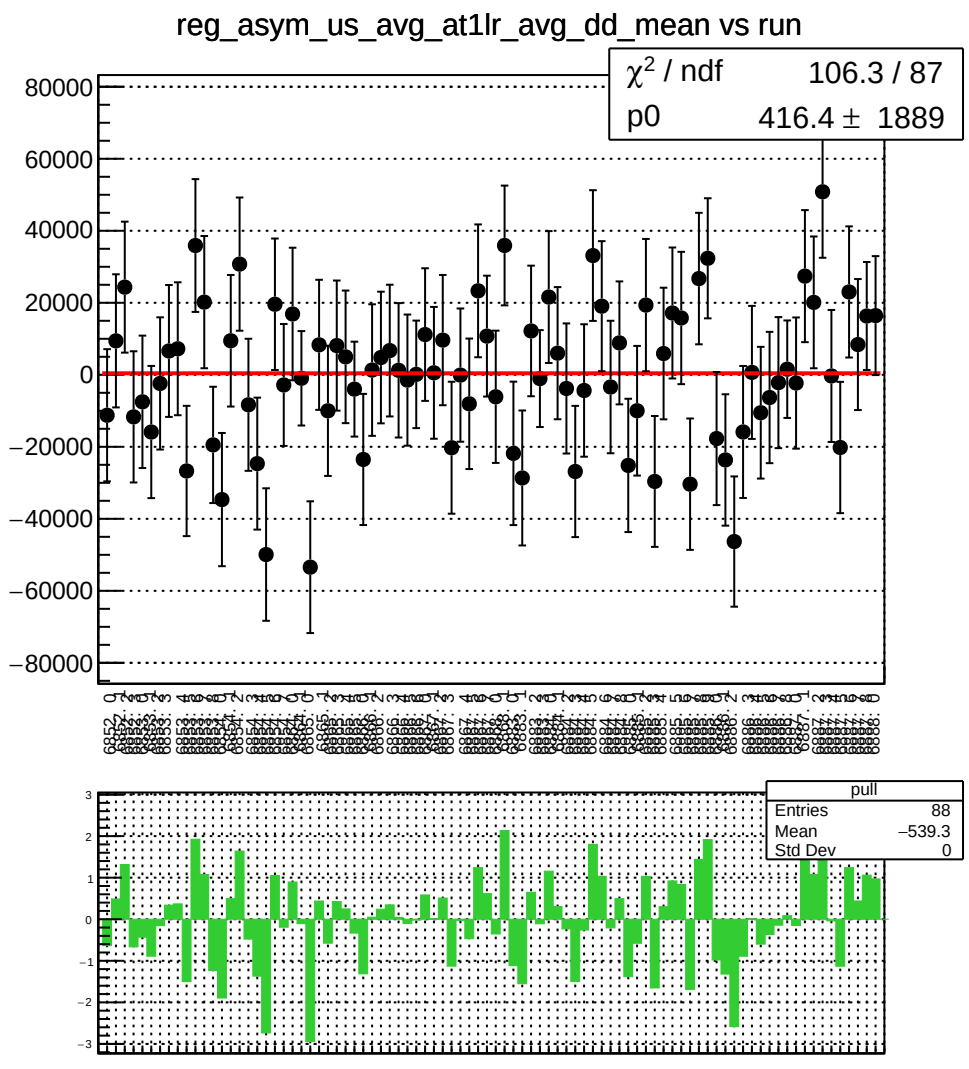

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.36 / 87
p0 −0.0612 ± 0.1014
pull
Entries 88
Mean 206.2
Std Dev 0
pull1D
Entries 88
Mean −0.005468
Std Dev 0.9068

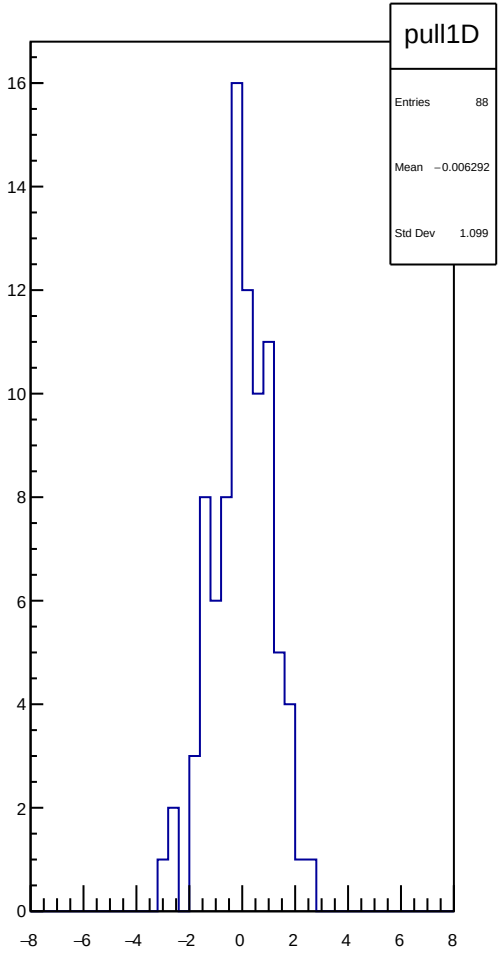

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.136e+05 / 87
p0 90.08 ± 0.07173
200
180
160
140
120
100
80
60

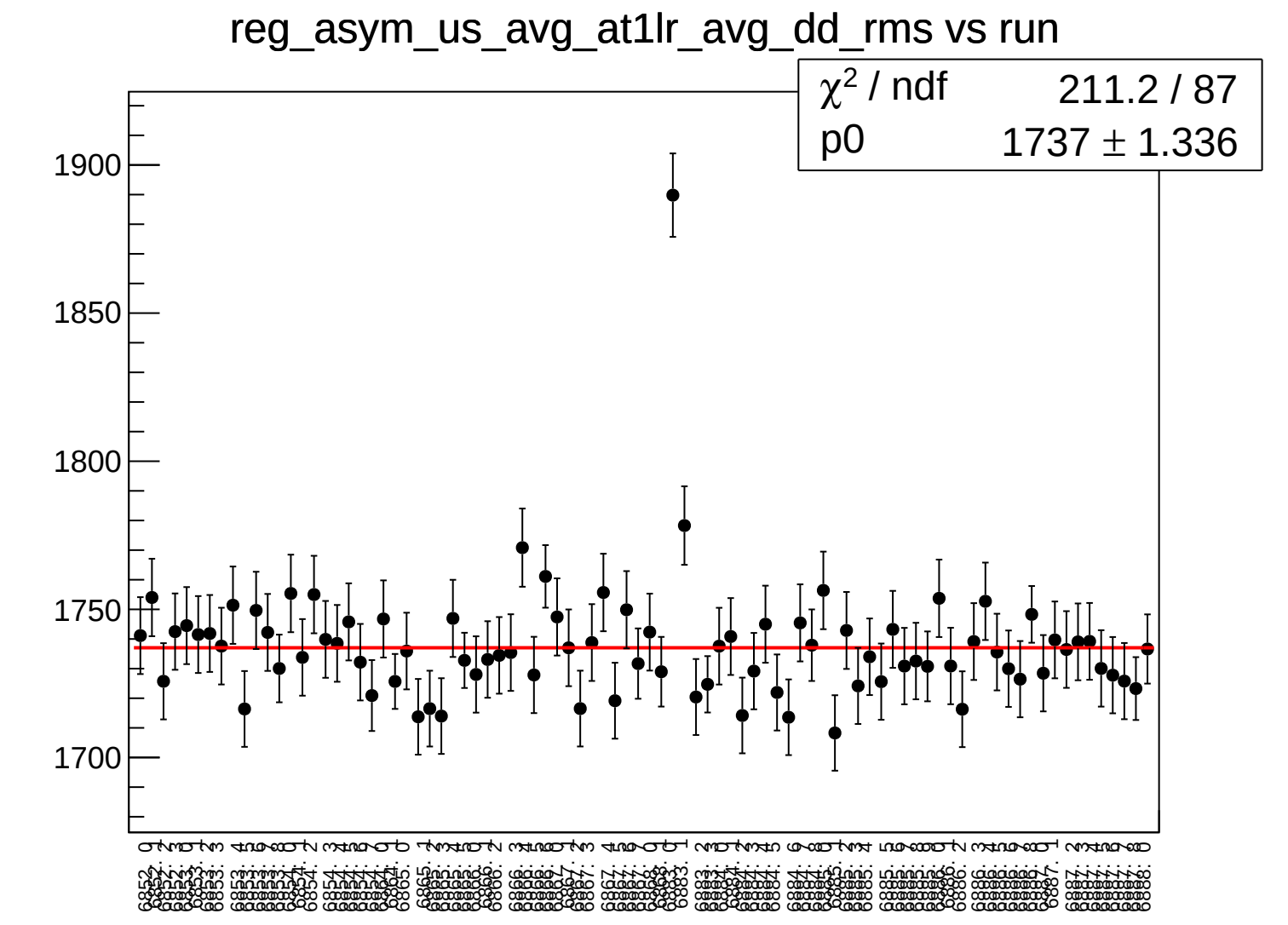

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.23 / 87
p0 −3.951e−14 ± 3.901e−14
pull
Entries 88
Mean 52.34
Std Dev 11.67

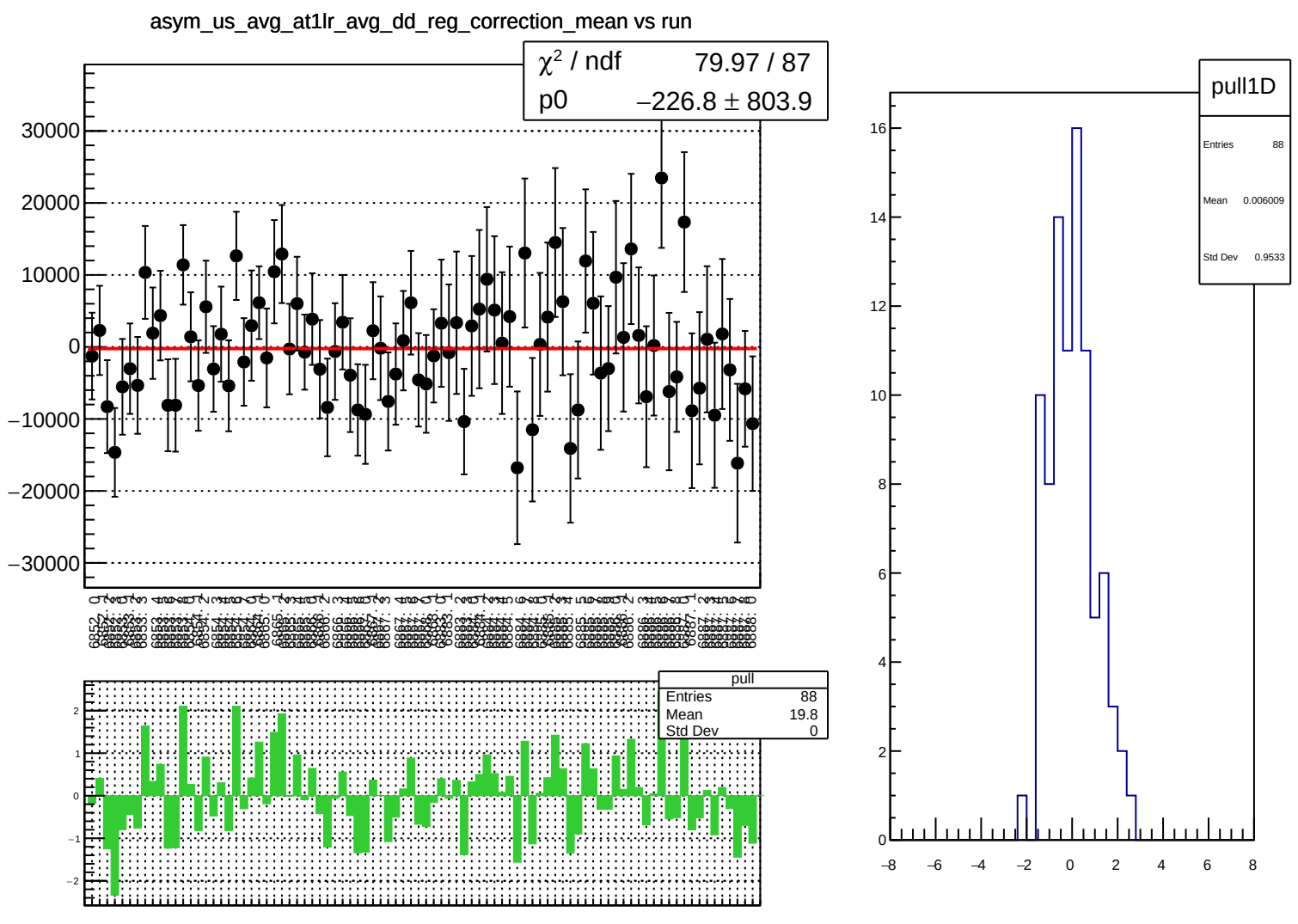

pull1D
Entries 88
Mean 0.03411
Std Dev 0.8603

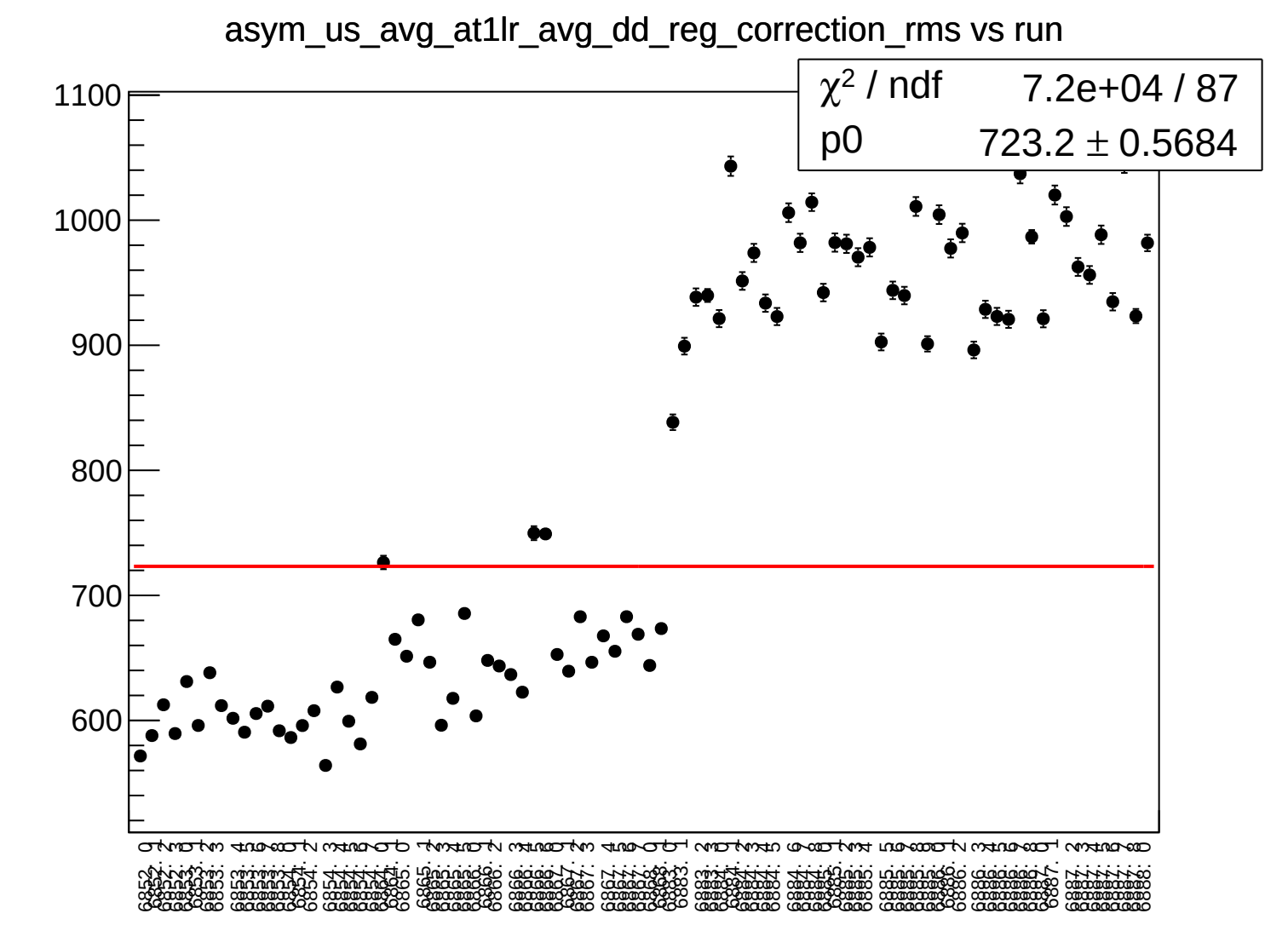

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.706e+05 / 87
p0 2.92e−11 ± 2.759e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

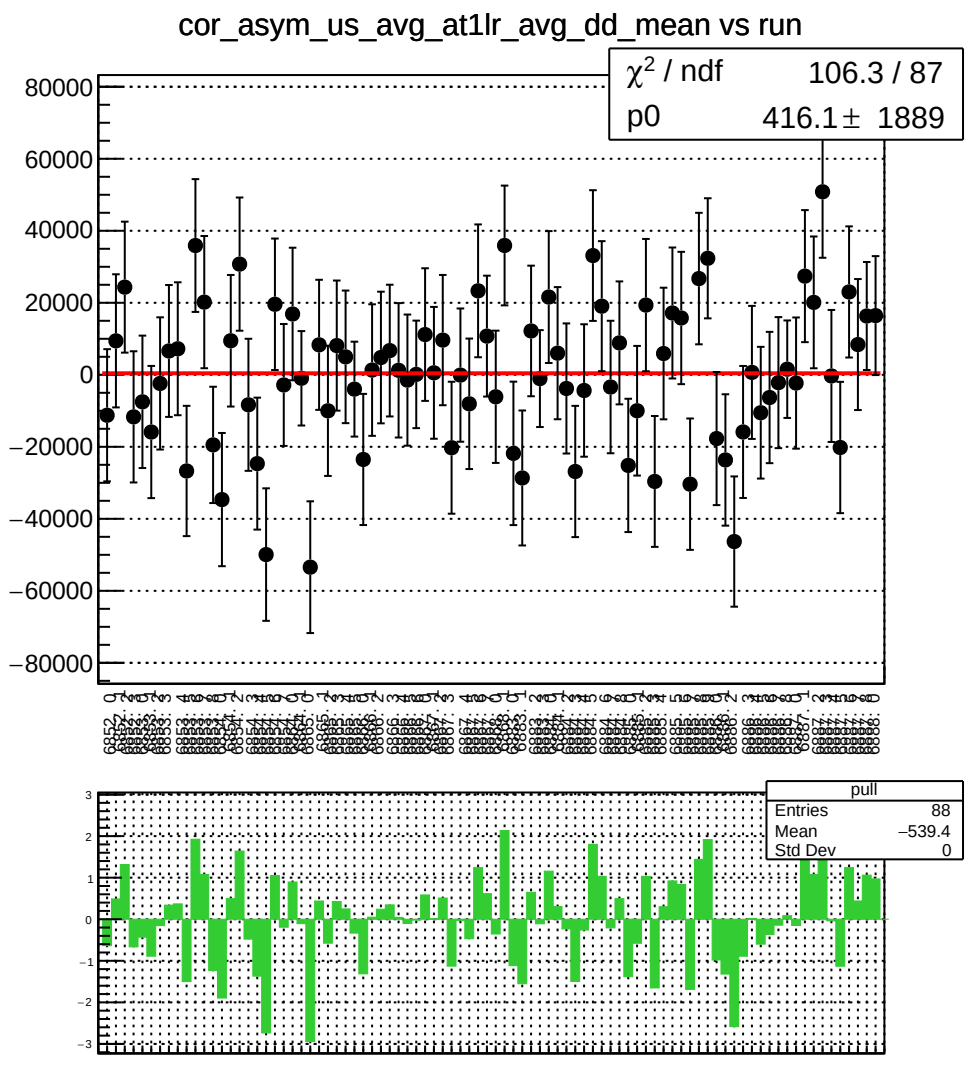

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 106.3 / 87
p0 416.4 ± 1889
pull
Entries 88
Mean −539.3
Std Dev 0

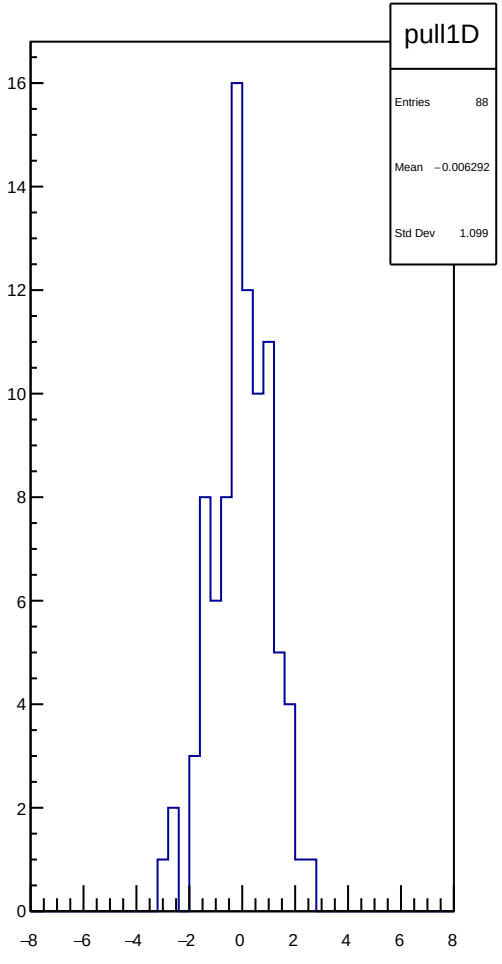

pull1D
Entries 88
Mean −0.006292
Std Dev 1.099

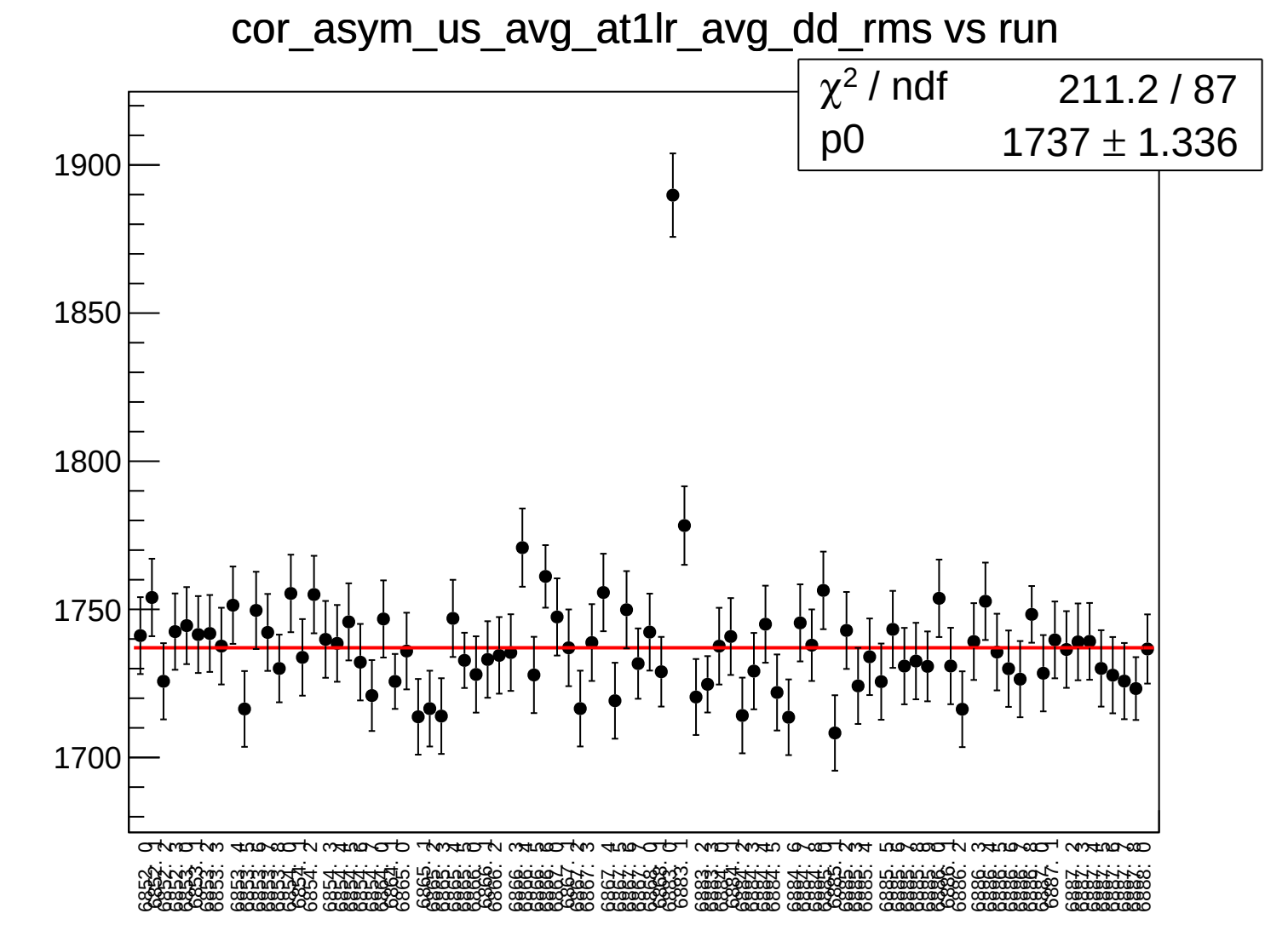

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 211.2 / 87
p0 1737 ± 1.336
1900
1850
1800
1750
1700

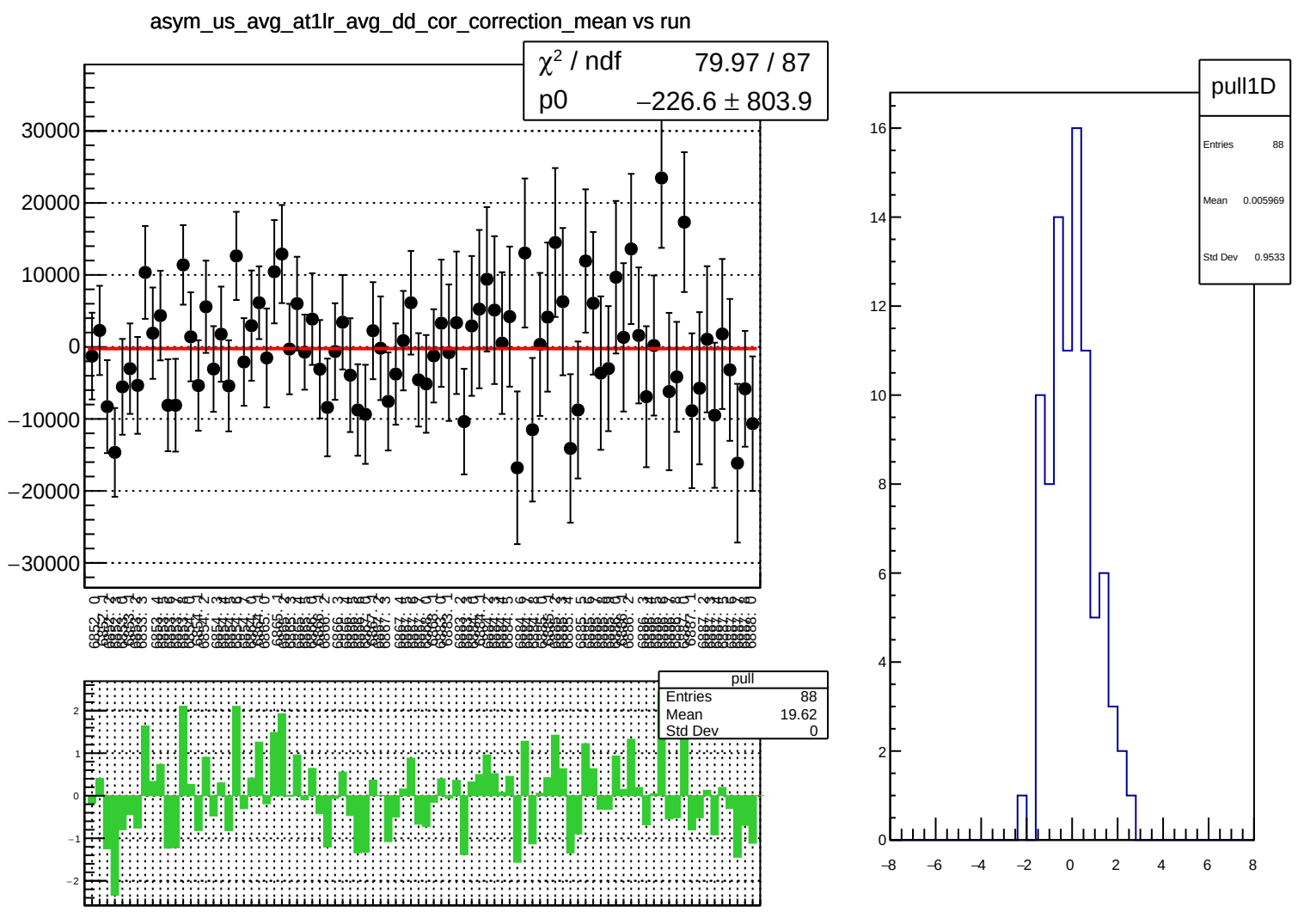

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 79.97 / 87
p0 −226.8 ± 803.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 19.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.006009
Std Dev 0.9533
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

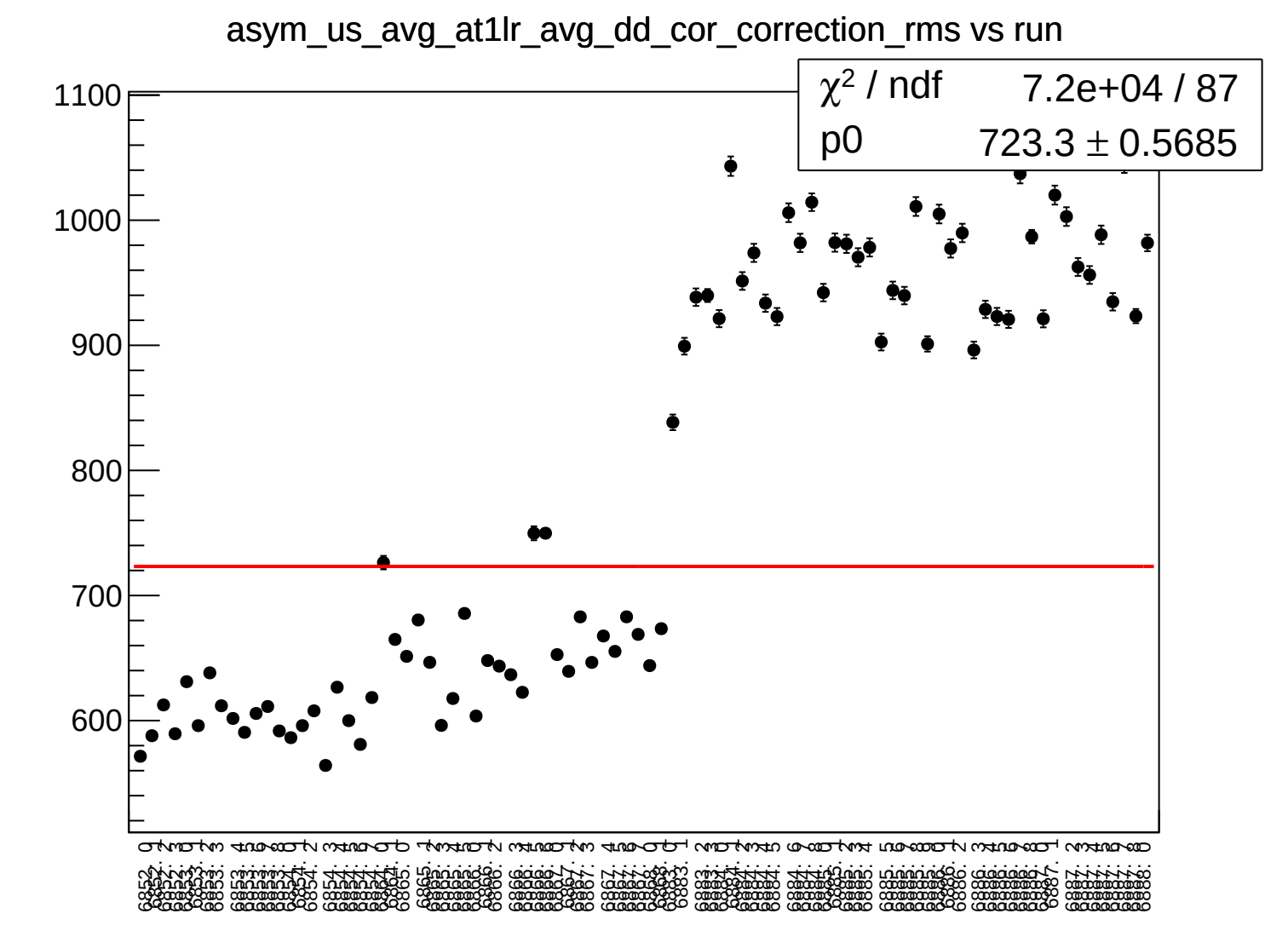

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 7.2e+04 / 87
p0 723.2 ± 0.5684
1100
1000
900
800
700
600

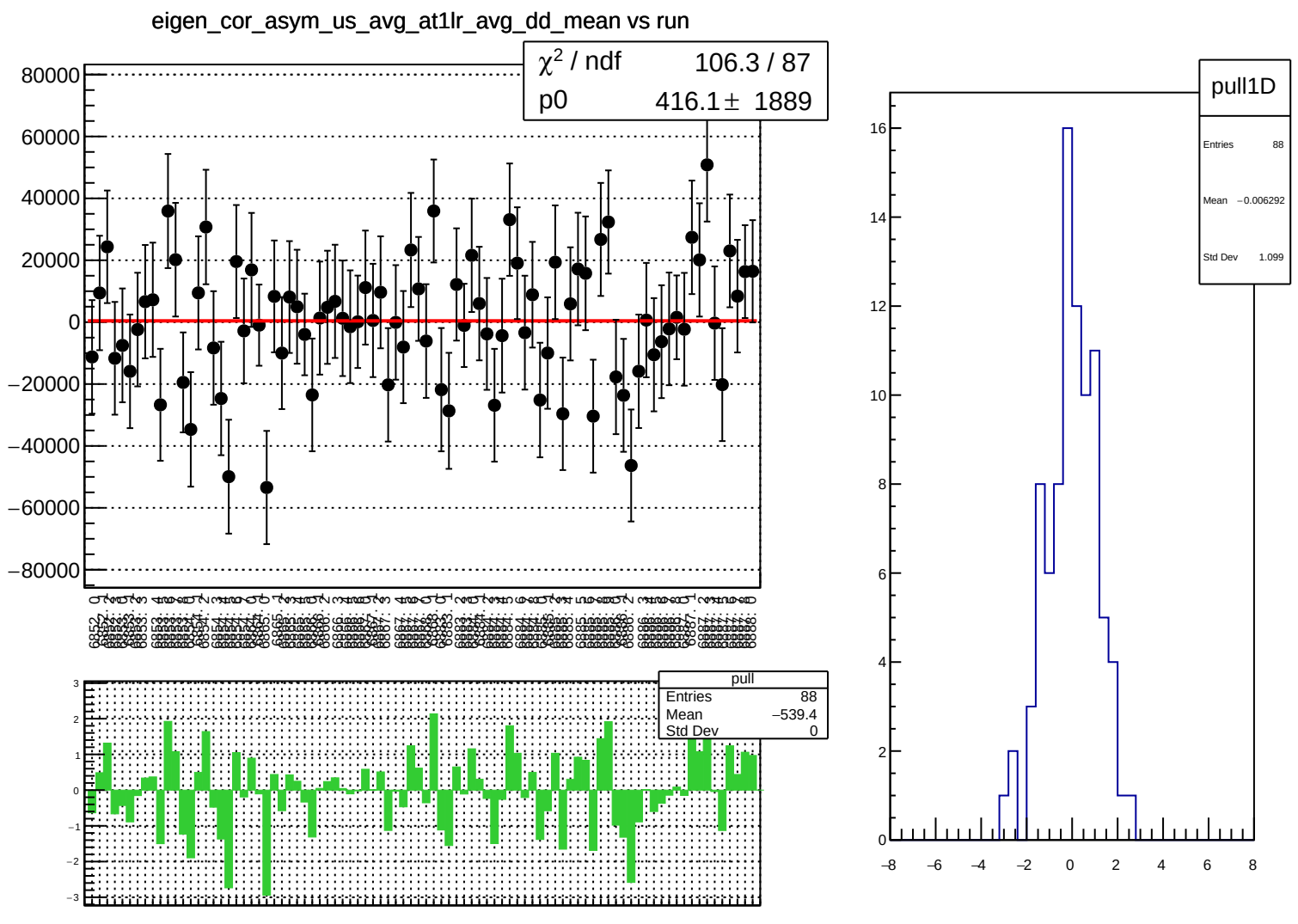

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 106.3 / 87
p0 416.1 ± 1889
pull
Entries 88
Mean −539.4
Std Dev 0

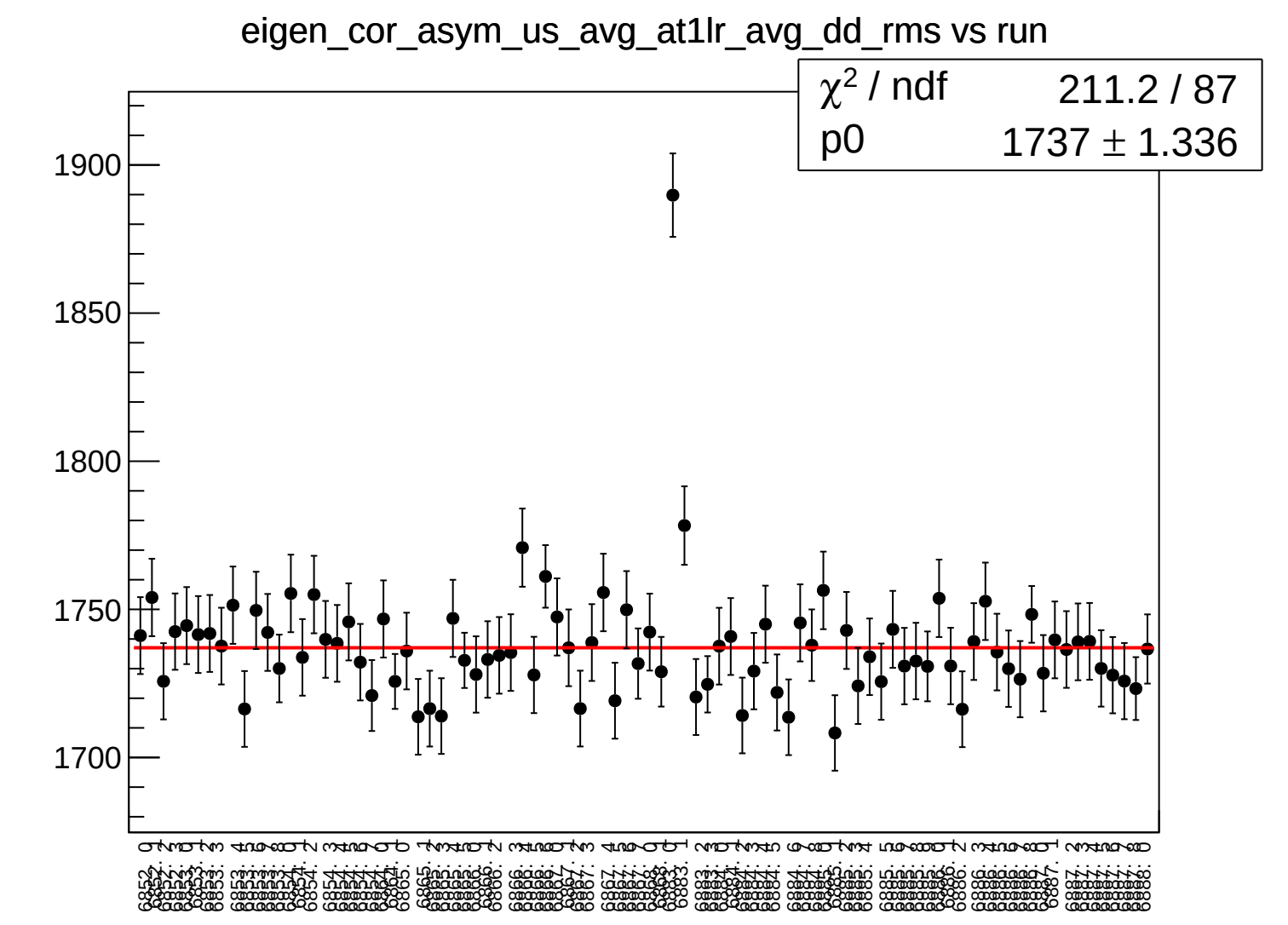

pull1D
Entries 88
Mean −0.006292
Std Dev 1.099

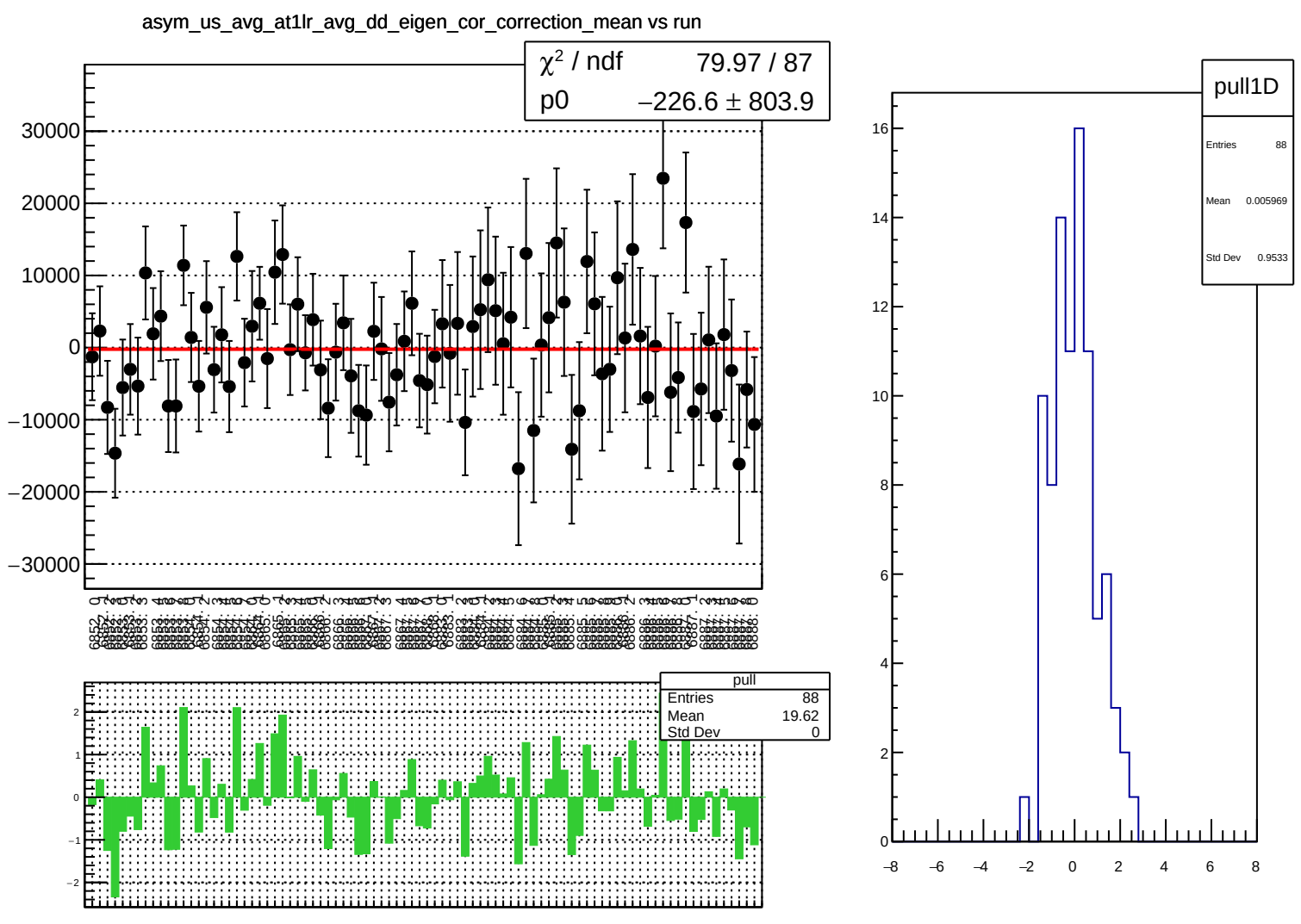

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 211.2 / 87
p0 1737 ± 1.336
1900
1850
1800
1750
1700

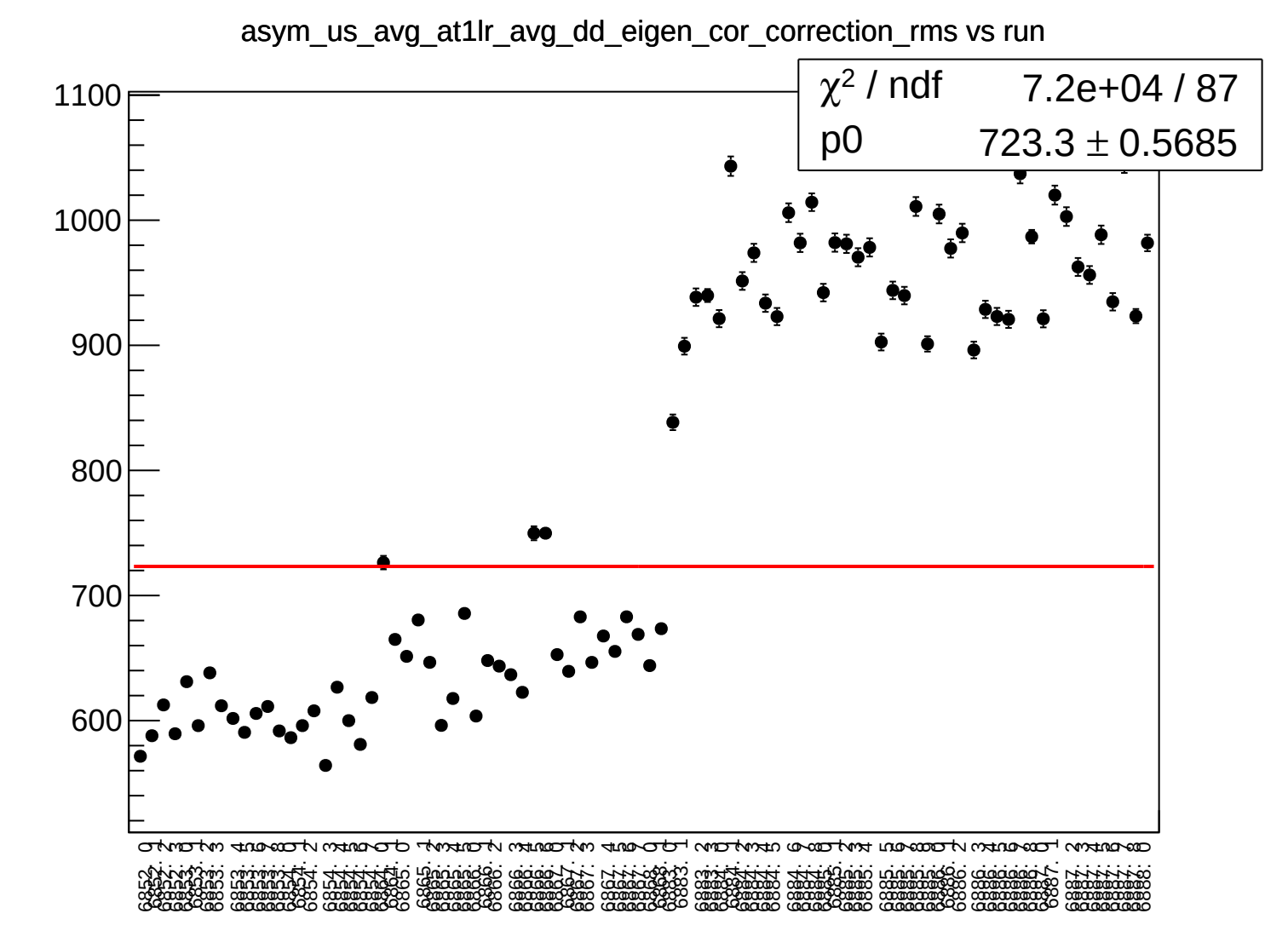

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 79.97 / 87
p0 −226.6 ± 803.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 19.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.005969
Std Dev 0.9533
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

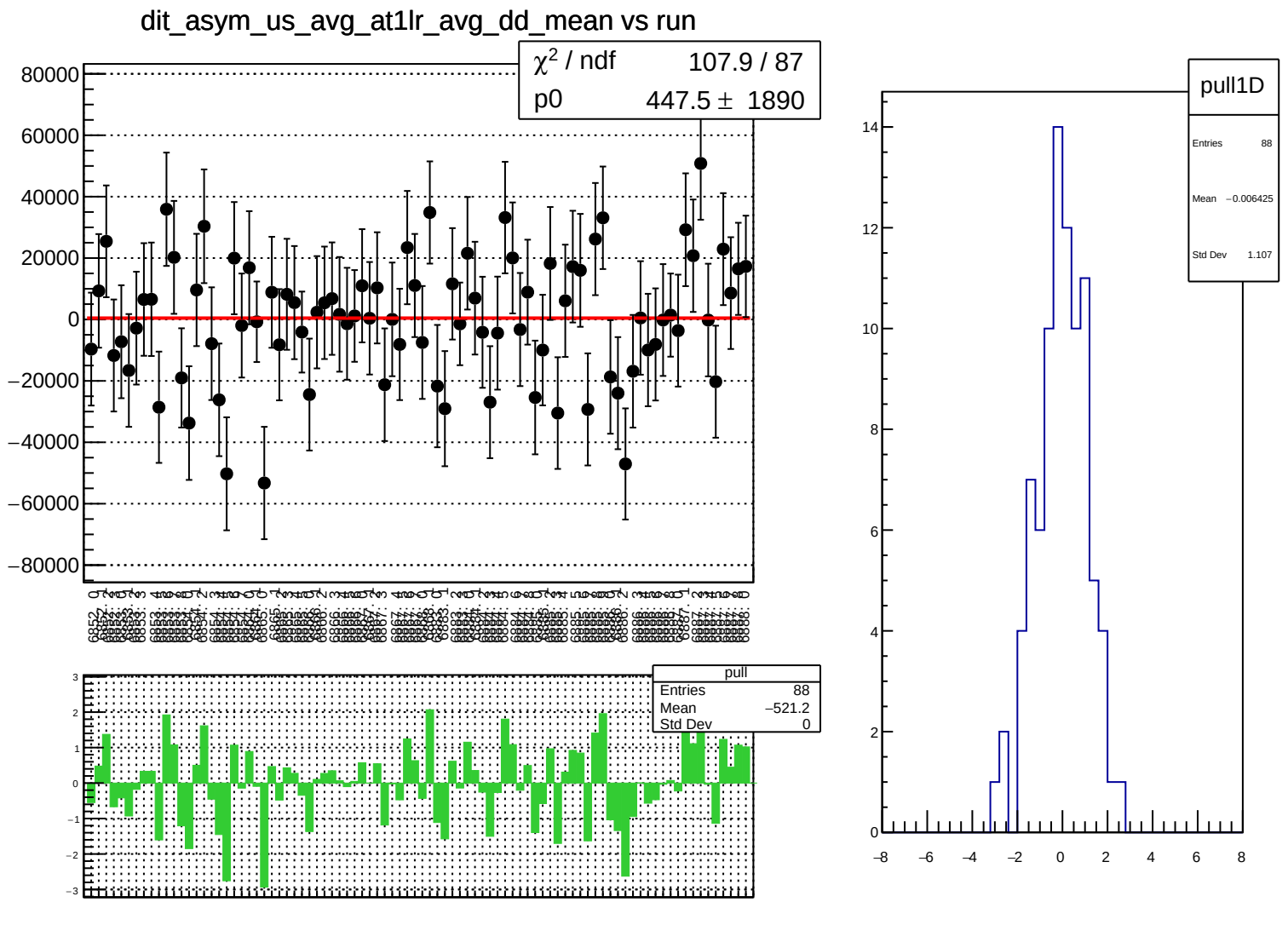

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 7.2e+04 / 87
p0 723.3 ± 0.5685
1100
1000
900
800
700
600

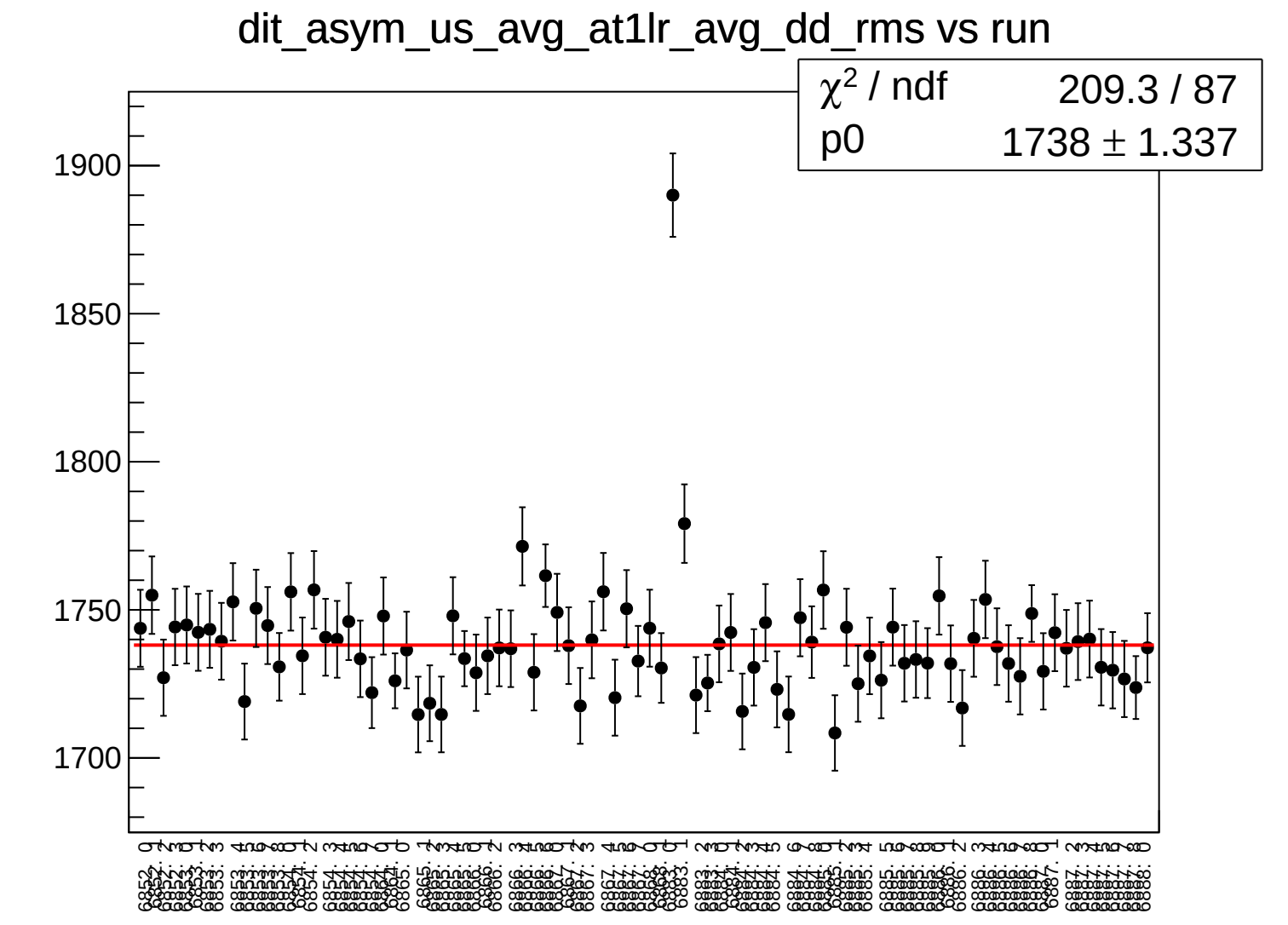

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 106.3 / 87
p0 416.1 ± 1889
pull
Entries 88
Mean −539.4
Std Dev 0
pull1D
Entries 88
Mean −0.006292
Std Dev 1.099

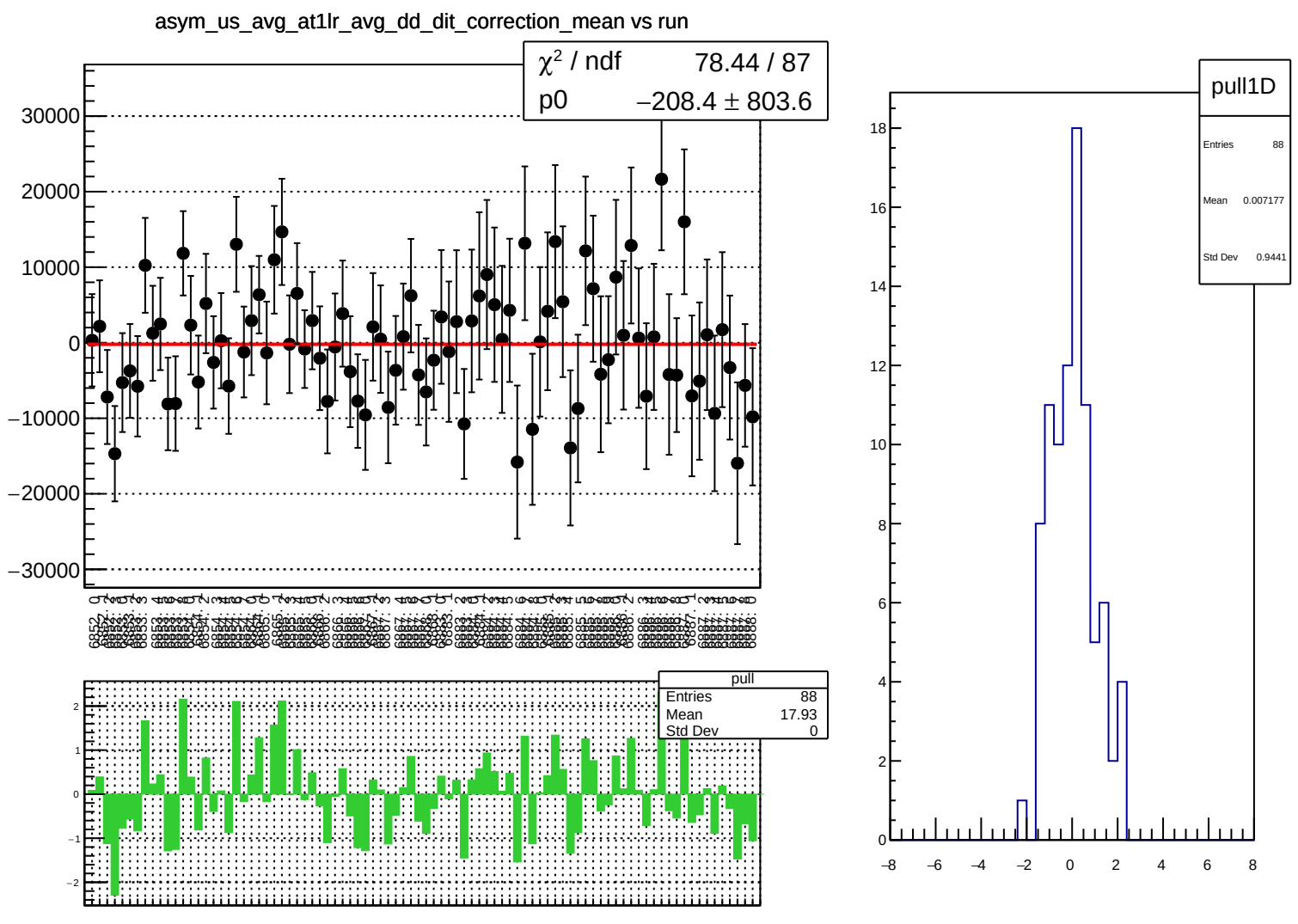

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 211.2 / 87
p0 1737 ± 1.336
1900
1850
1800
1750
1700

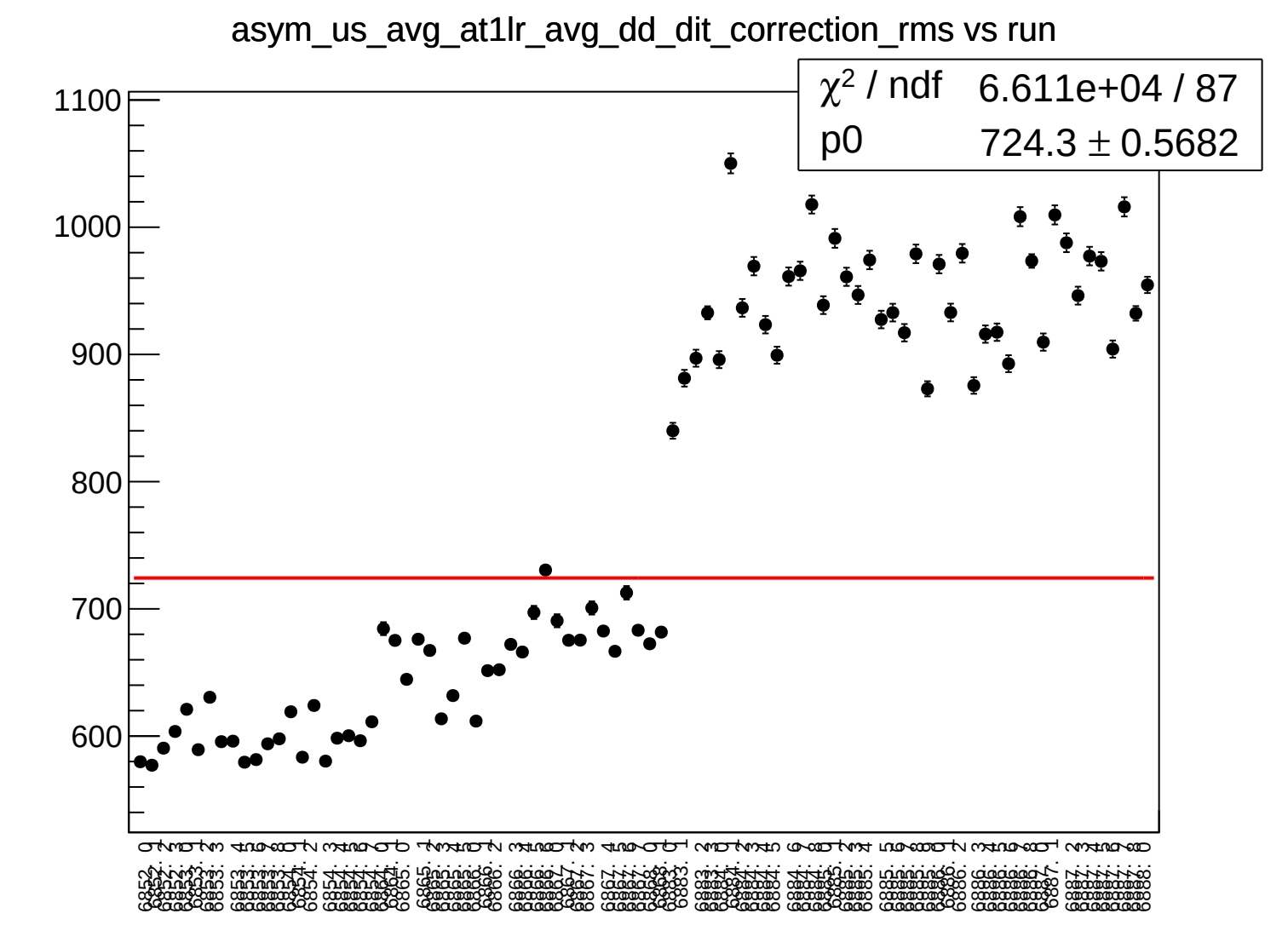

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.97 / 87
p0 −226.6 ± 803.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 19.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.005969
Std Dev 0.9533
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

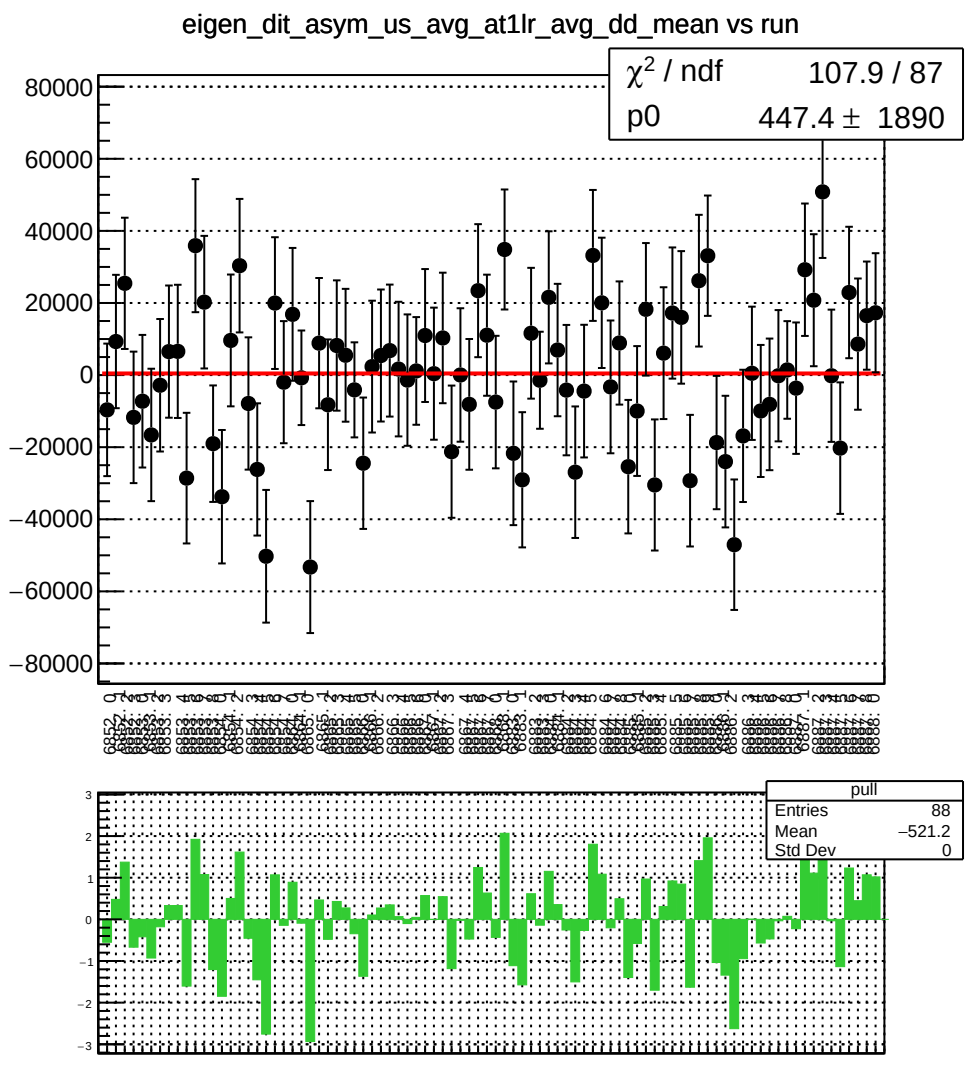

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.2e+04 / 87
p0 723.3 ± 0.5685
1100
1000
900
800
700
600

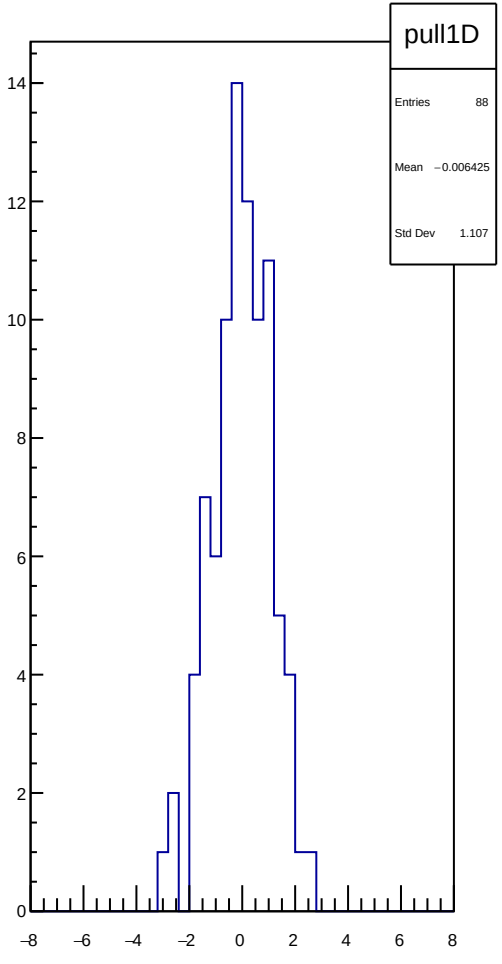

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 107.9 / 87
p0 447.5 ± 1890
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −521.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.006425
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

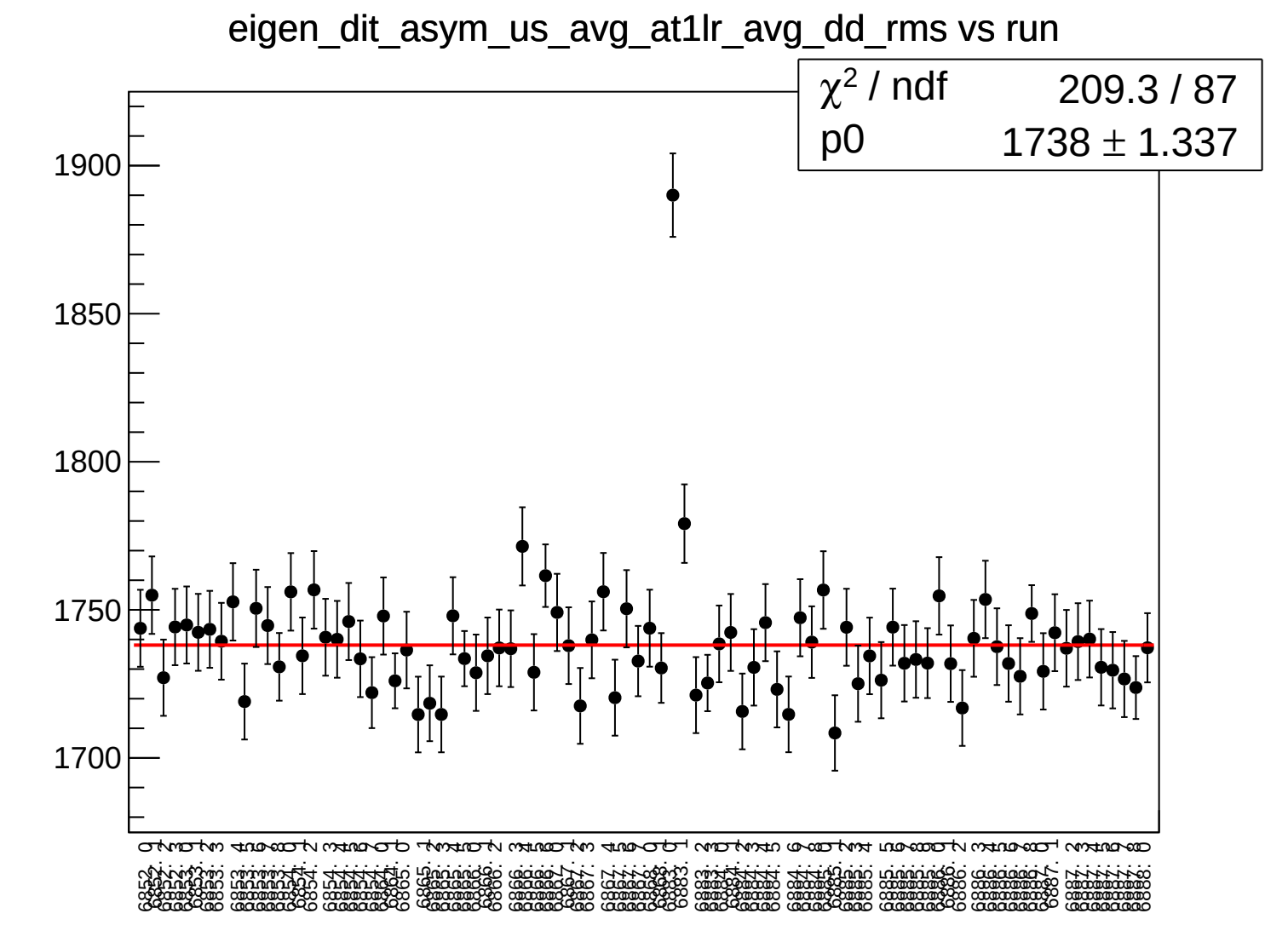

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 209.3 / 87
p0 1738 ± 1.337
1900
1850
1800
1750
1700

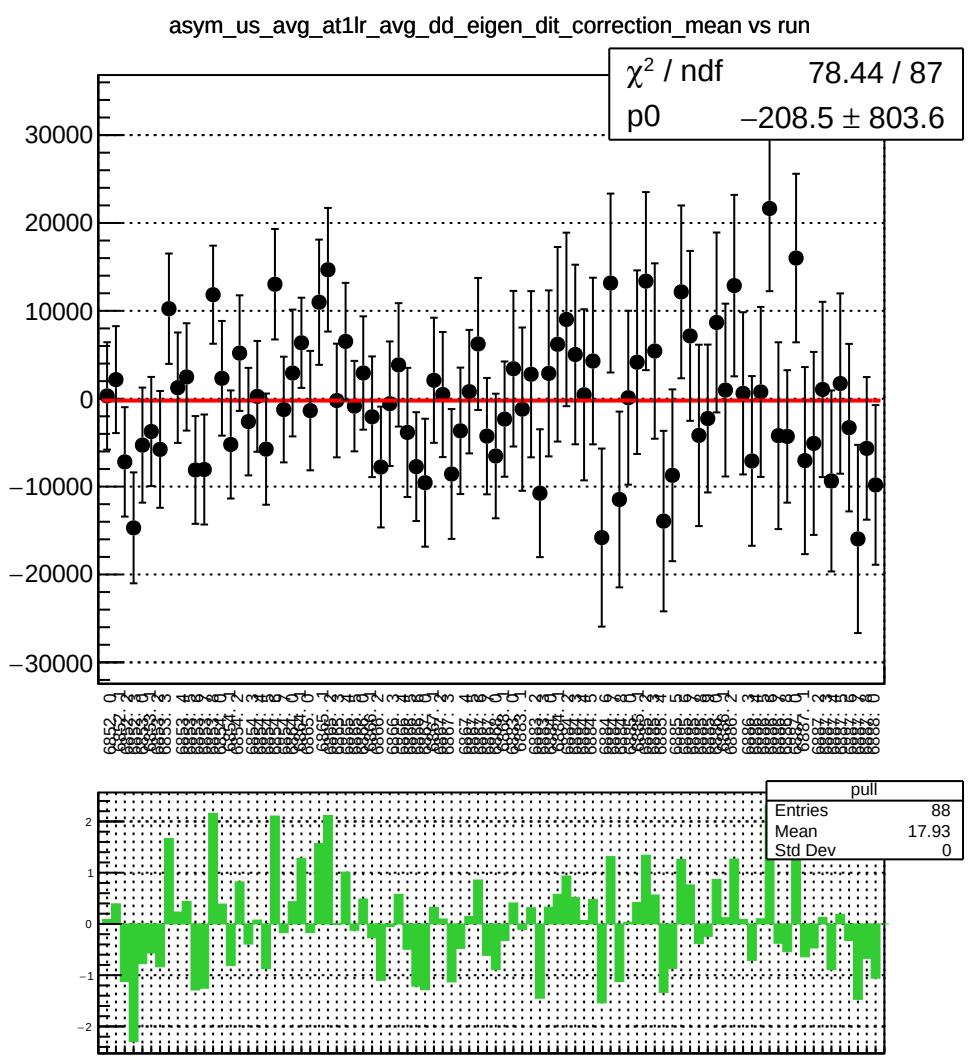

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 78.44 / 87
p0 −208.4 ± 803.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 17.93
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.007177
Std Dev 0.9441
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

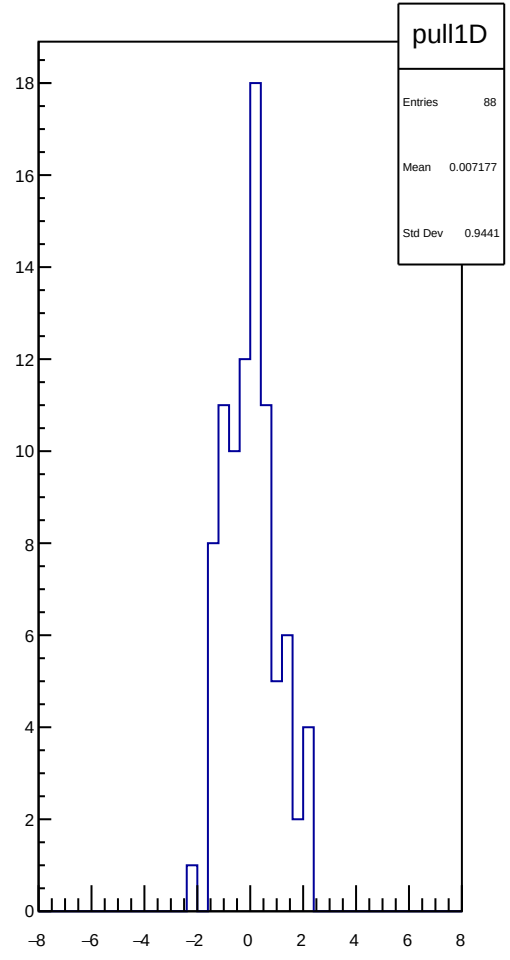

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 6.611e+04 / 87
p0 724.3 ± 0.5682
1100
1000
900
800
700
600

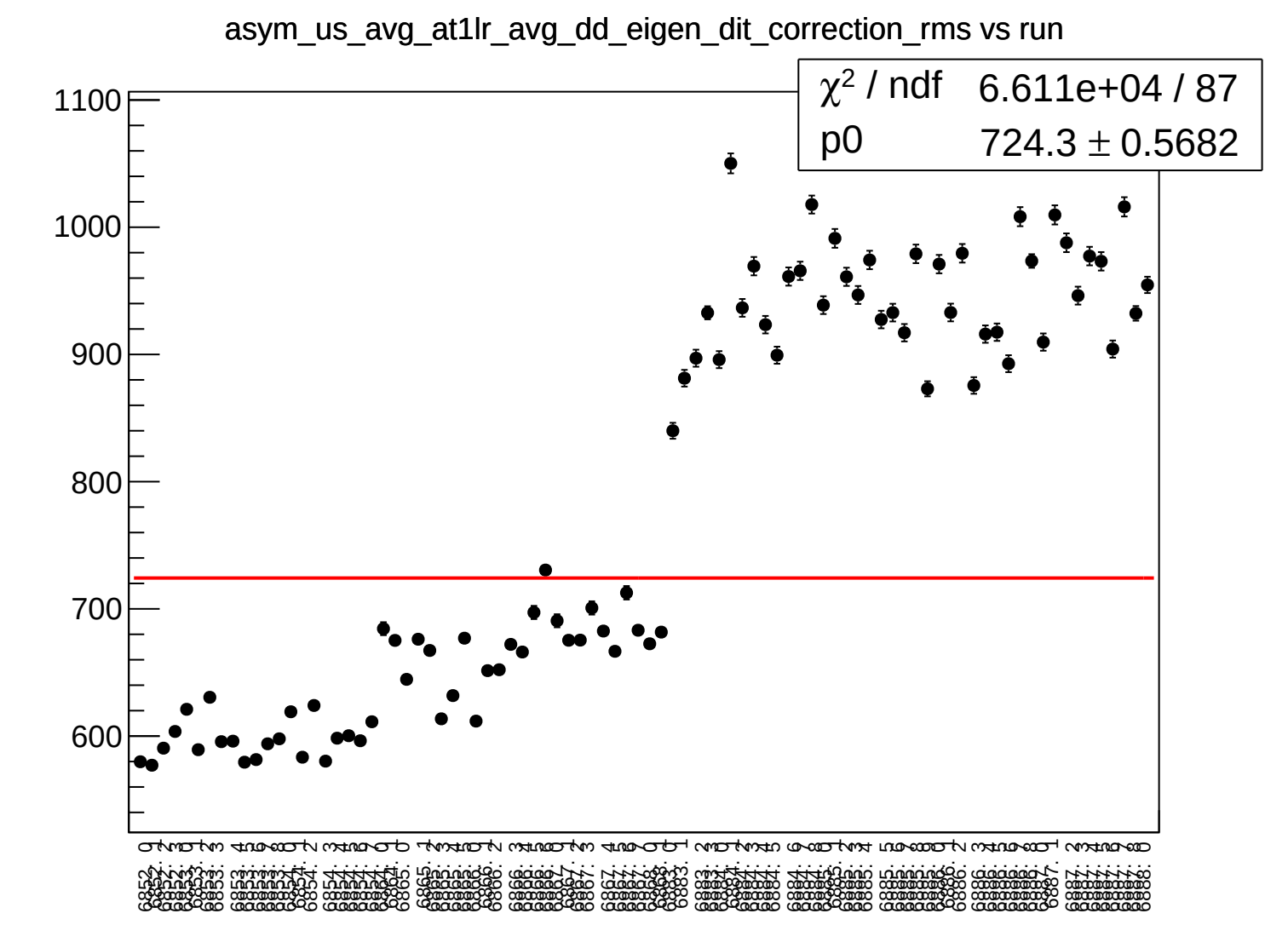

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 107.9 / 87
p0 447.4 ± 1890
pull
Entries 88
Mean −521.2
Std Dev 0

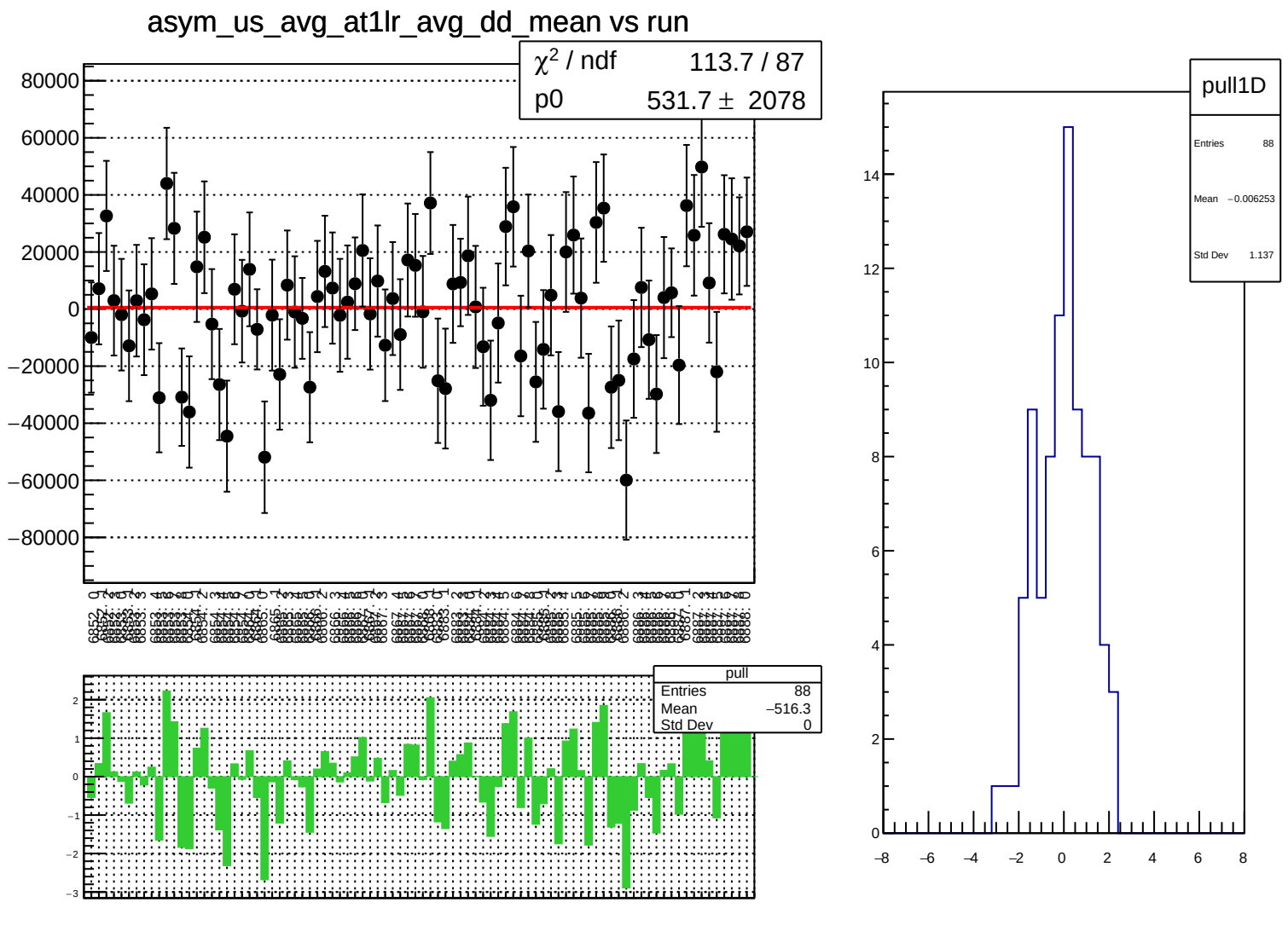

pull1D
Entries 88
Mean −0.006425
Std Dev 1.107

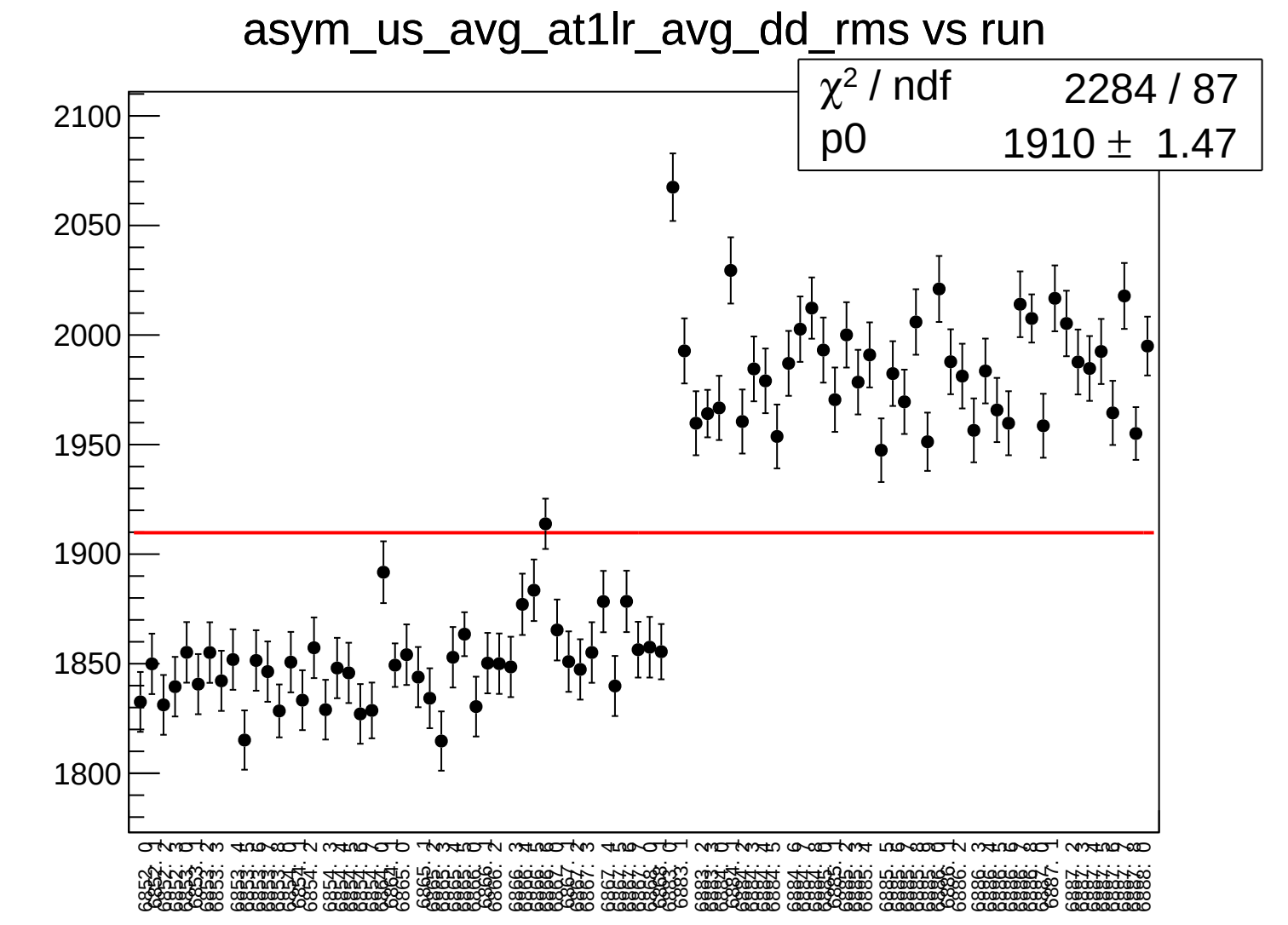

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 209.3 / 87
p0 1738 ± 1.337
1900
1850
1800
1750
1700

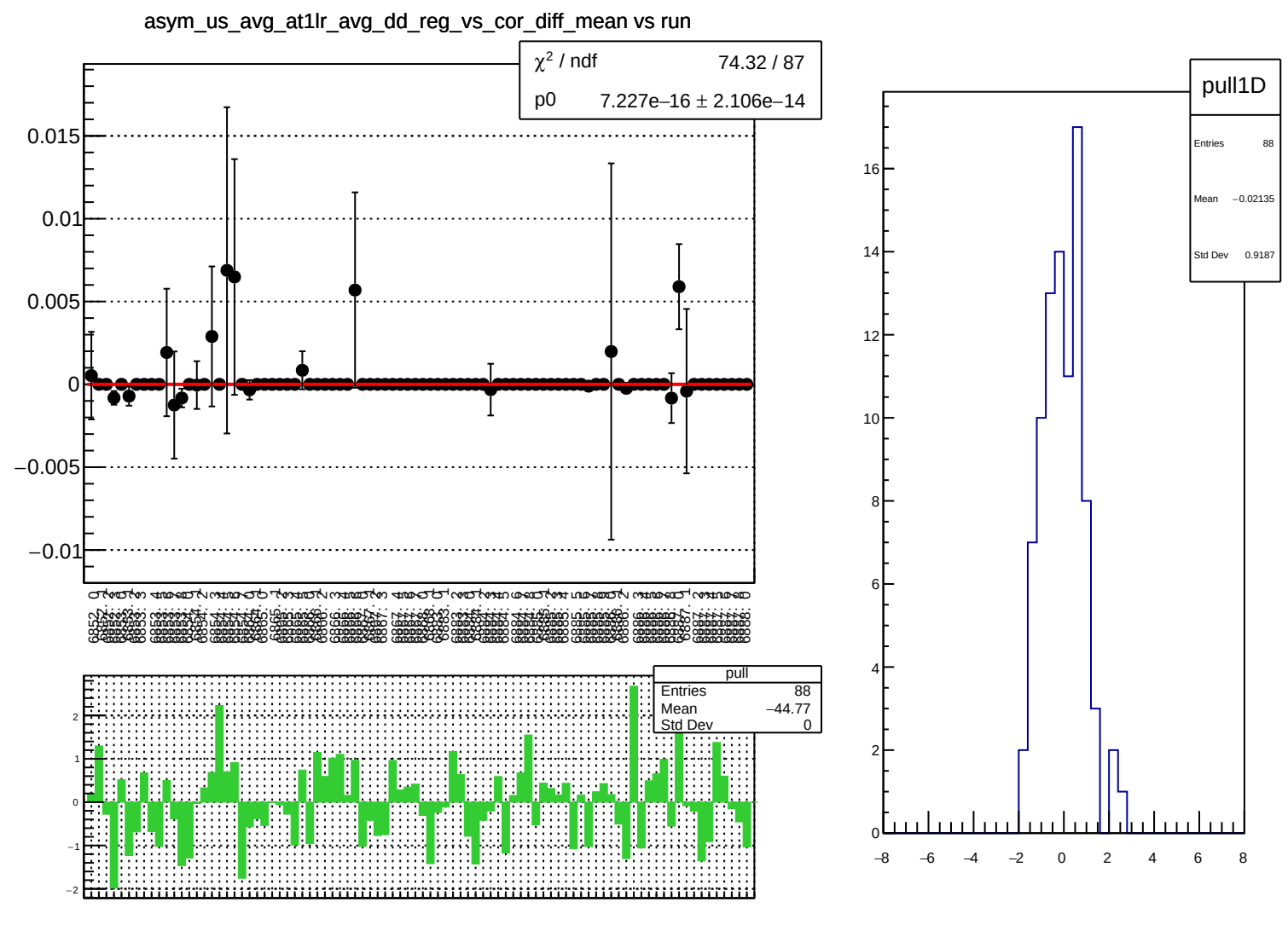

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.44 / 87
p0 −208.5 ± 803.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 17.93
Std Dev 0
2
1
0
−1
−2

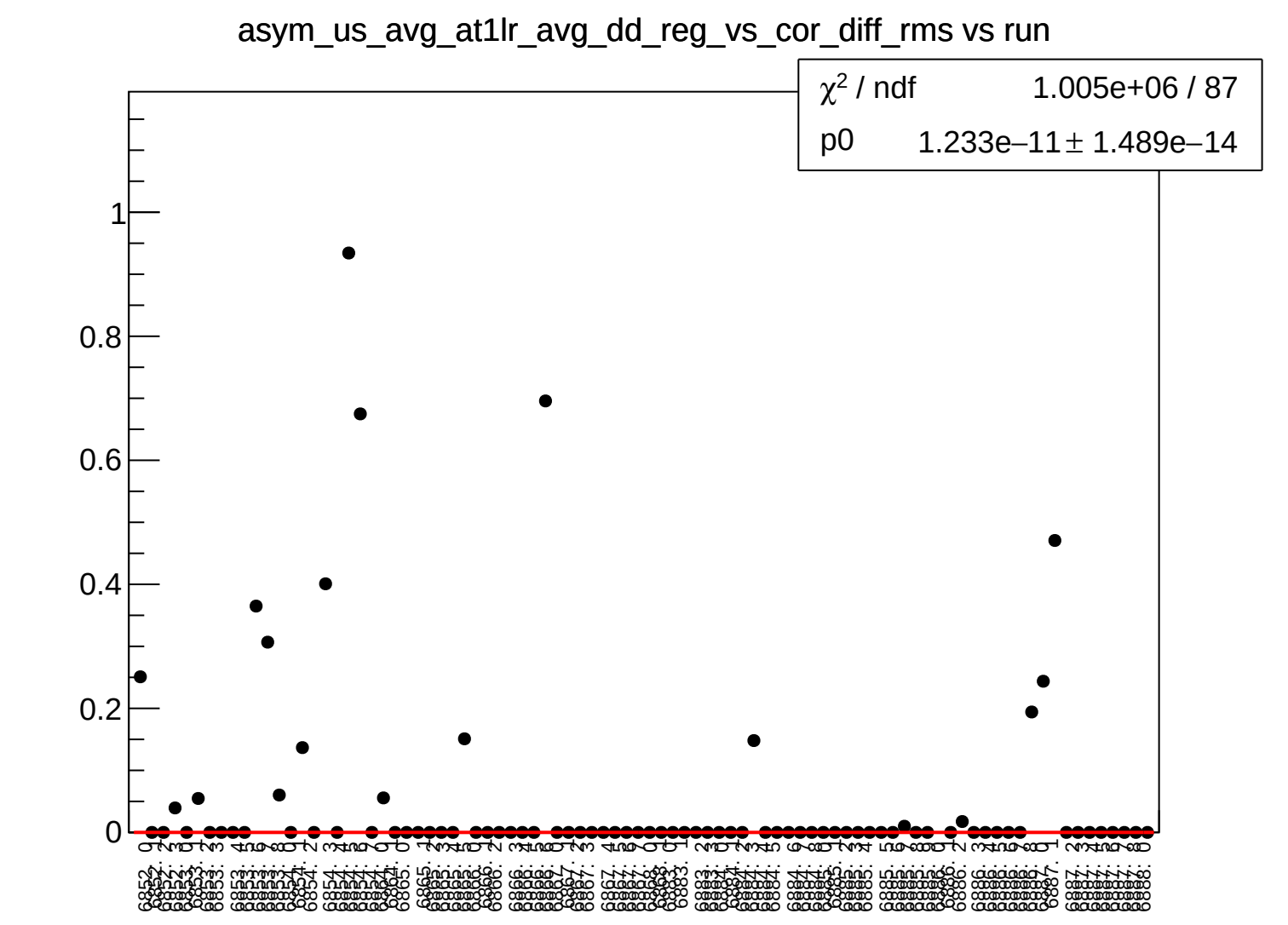

pull1D
Entries 88
Mean 0.007177
Std Dev 0.9441
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

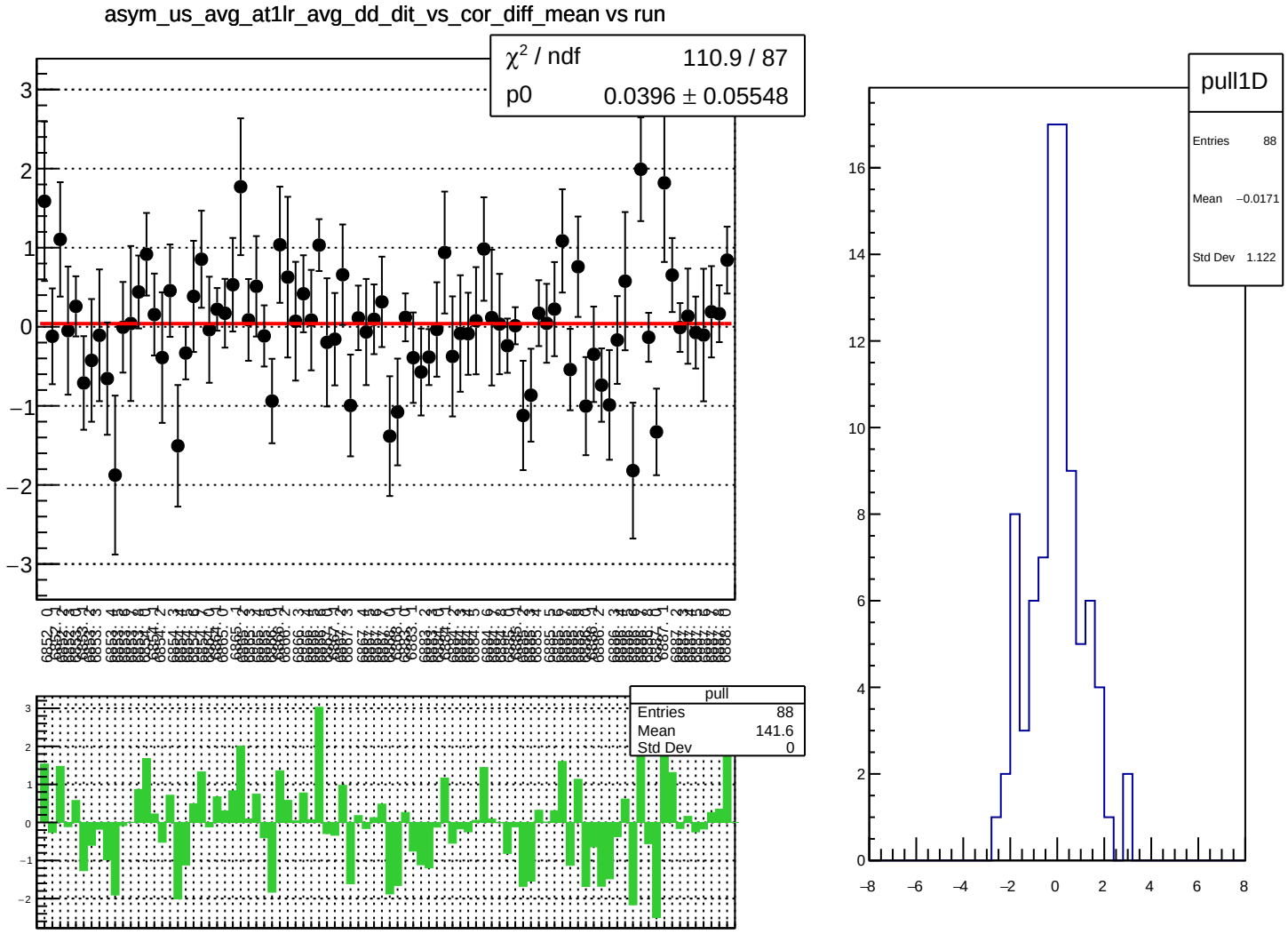

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.611e+04 / 87
p0 724.3 ± 0.5682
1100
1000
900
800
700
600

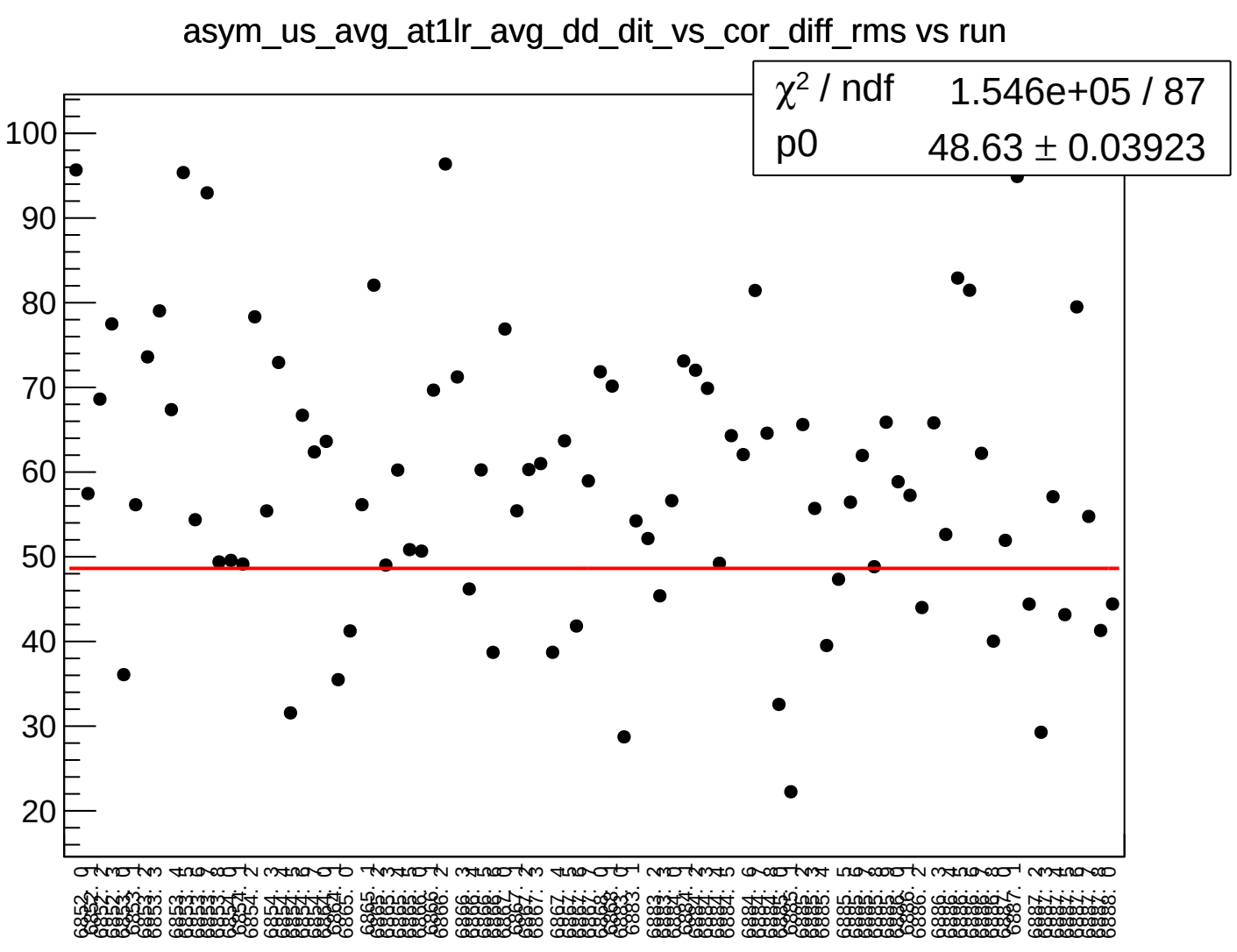

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 113.7 / 87
p0 531.7 ± 2078
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −516.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.006253
Std Dev 1.137
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

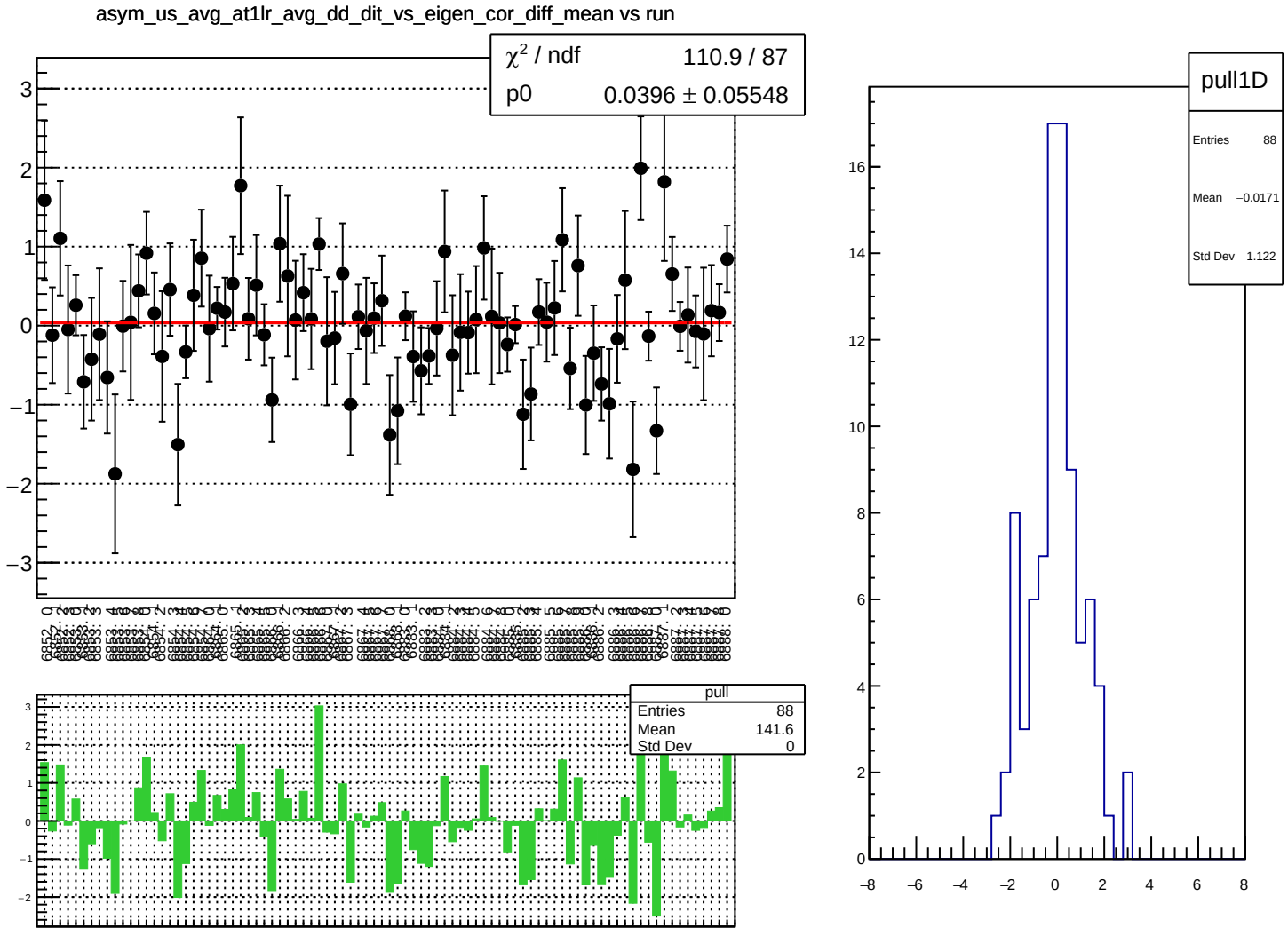

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 2284 / 87
p0 1910 ± 1.47
2100
2050
2000
1950
1900
1850
1800

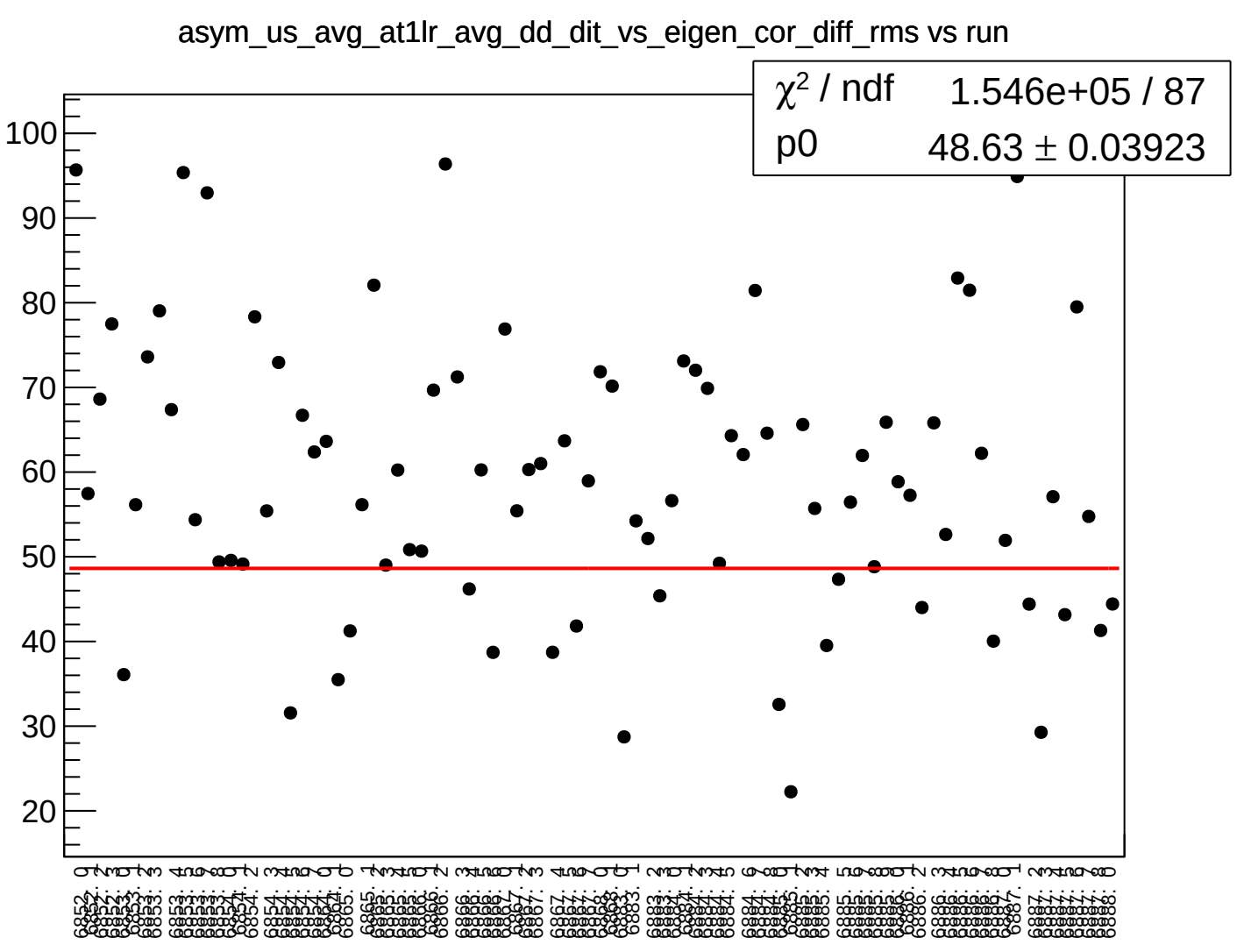

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.32 / 87
p0 7.227e−16 ± 2.106e−14
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 88
Mean −44.77
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.02135
Std Dev 0.9187
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

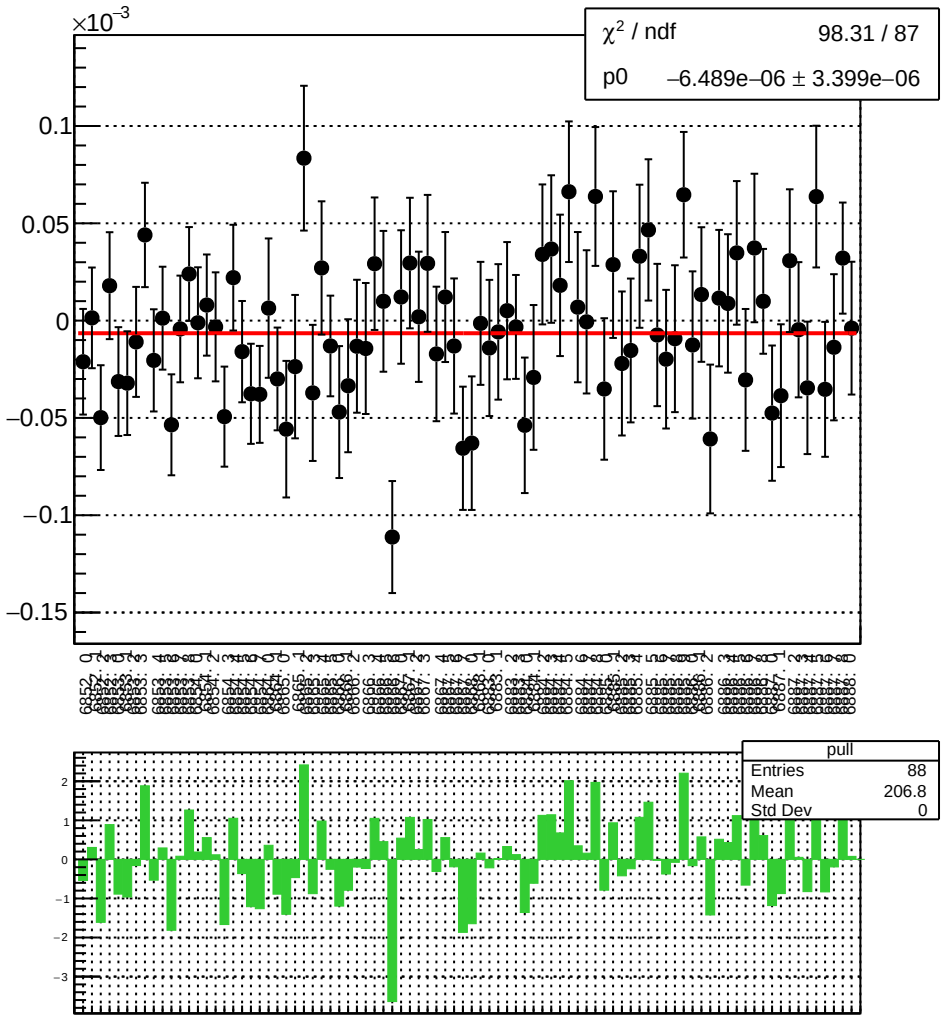

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.005e+06 / 87
p0 1.233e−11 ± 1.489e−14
1
0.8
0.6
0.4
0.2
0

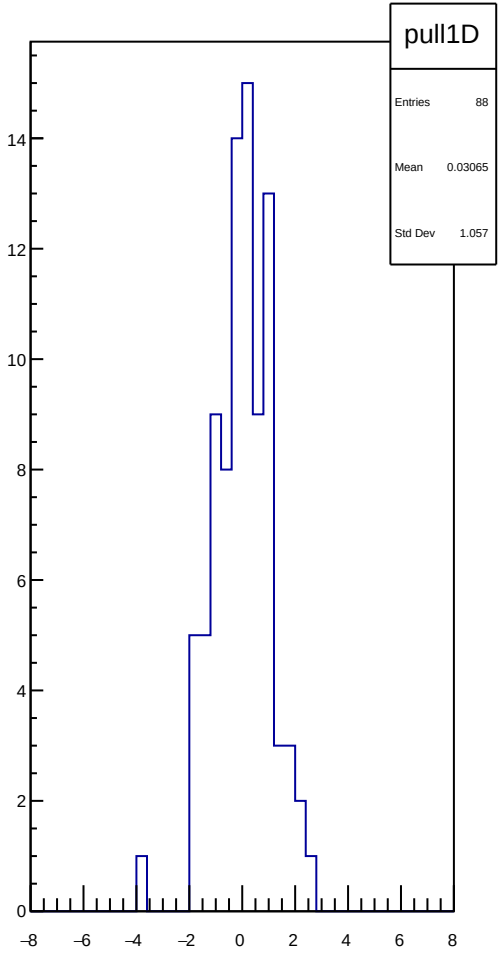

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 110.9 / 87
p0 0.0396 ± 0.05548
pull
Entries 88
Mean 141.6
Std Dev 0
pull1D
Entries 88
Mean −0.0171
Std Dev 1.122

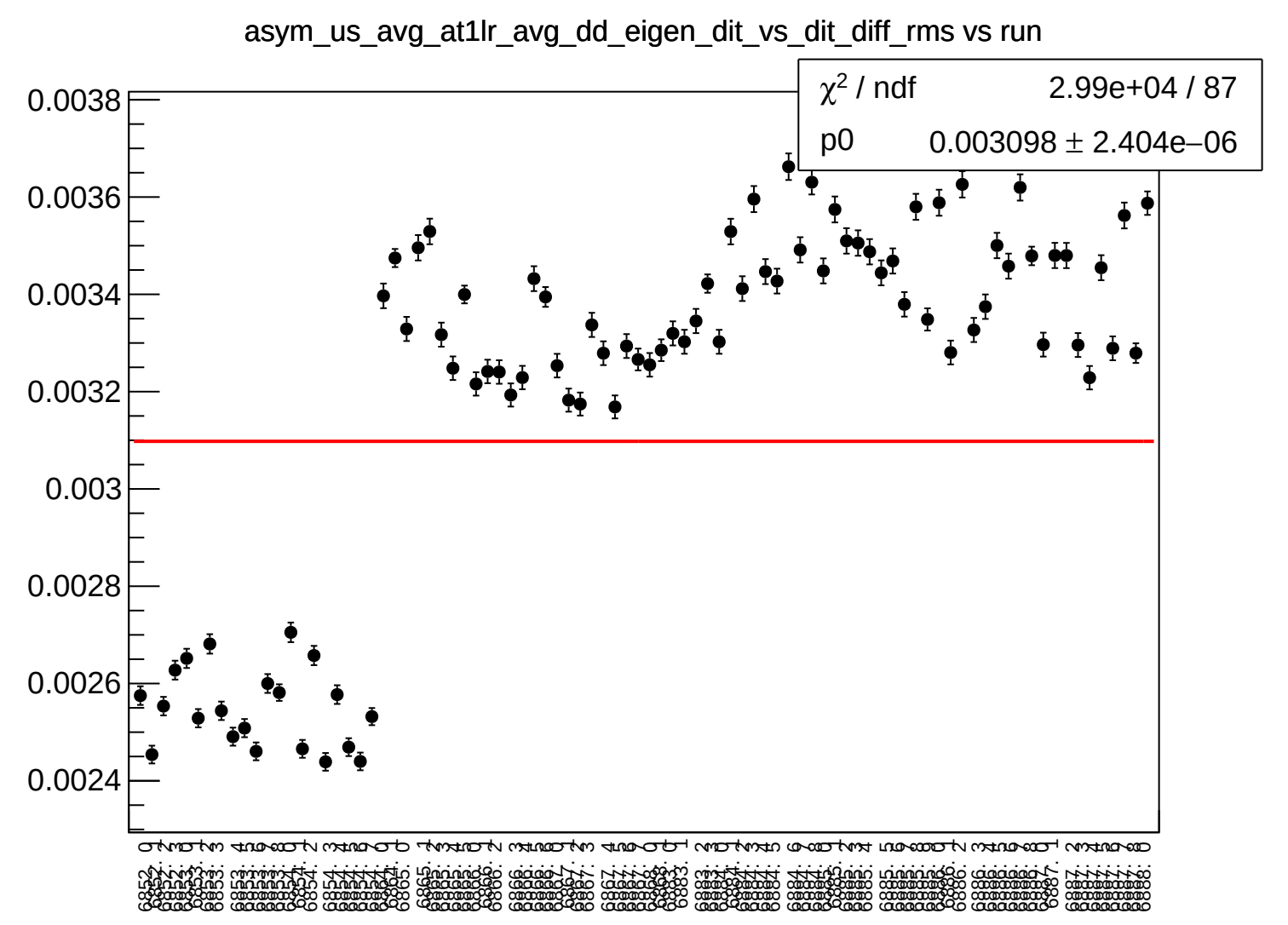

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.546e+05 / 87
p0 48.63 ± 0.03923
100
90
80
70
60
50
40
30
20

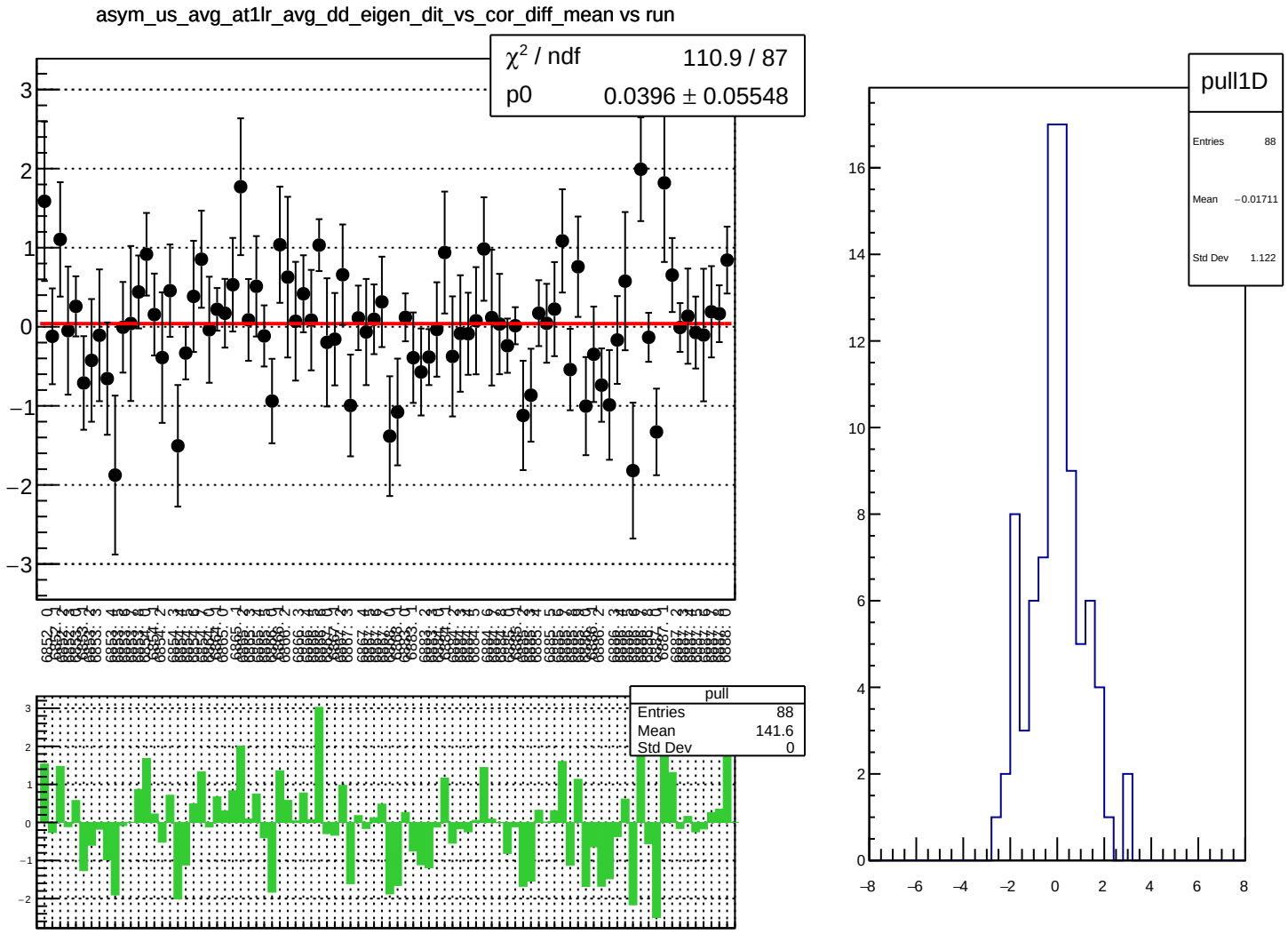

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.9 / 87
p0 0.0396 ± 0.05548
pull
Entries 88
Mean 141.6
Std Dev 0
pull1D
Entries 88
Mean −0.0171
Std Dev 1.122

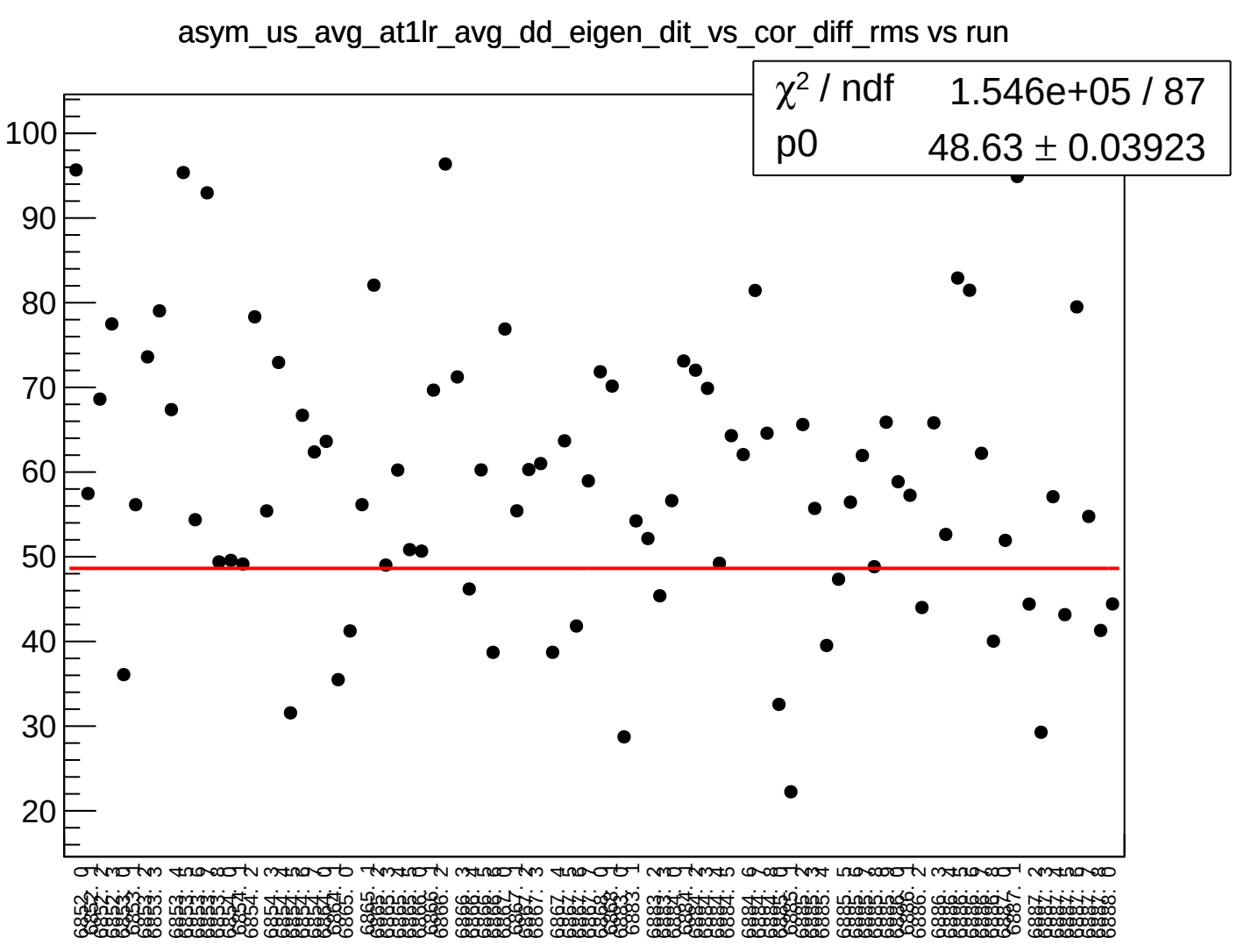

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.546e+05 / 87
p0 48.63 ± 0.03923
100
90
80
70
60
50
40
30
20

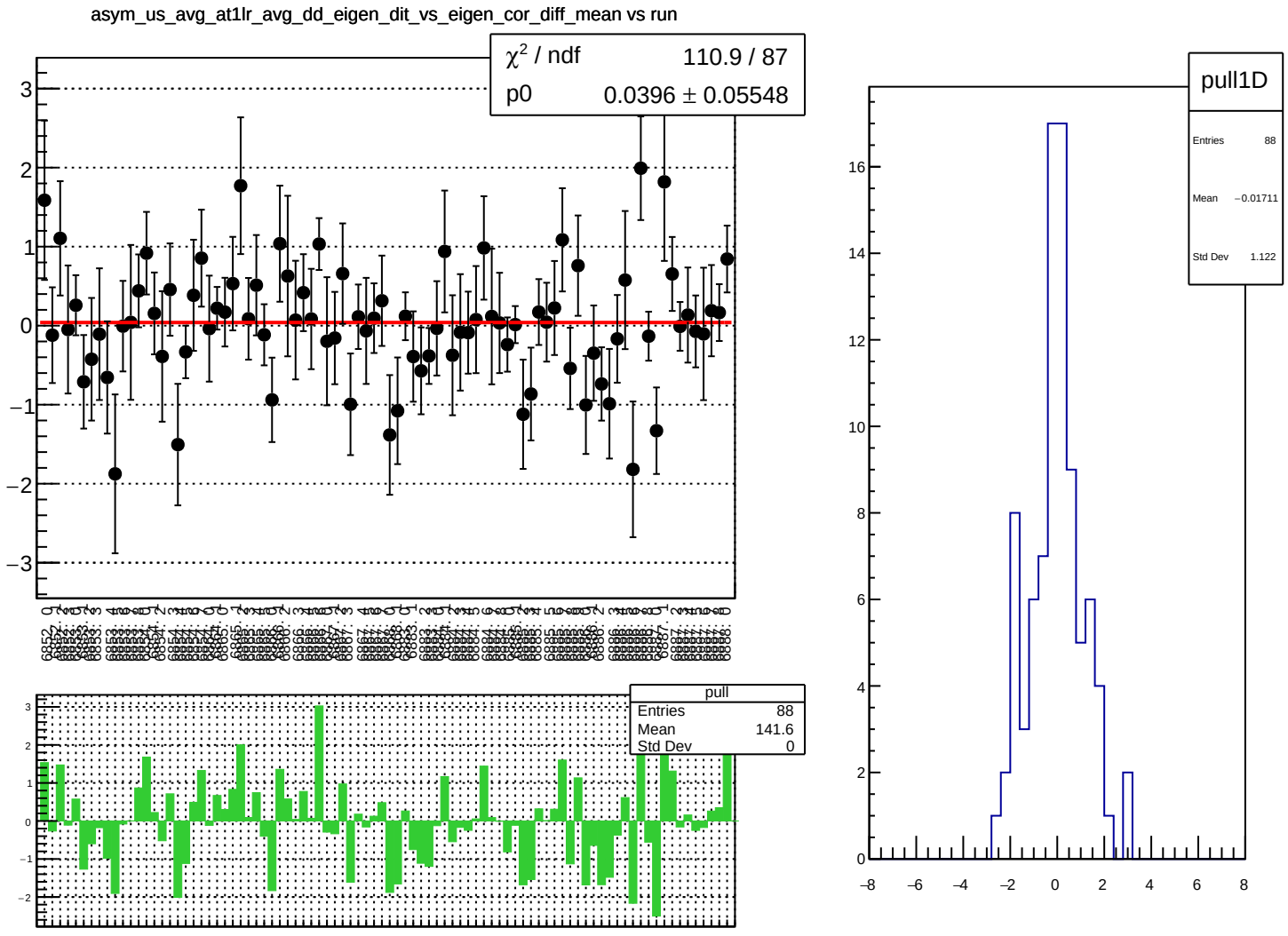

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.31 / 87
p0 −6.489e−06 ± 3.399e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 206.8
Std Dev 0
2
1
0
−1
−2
−3

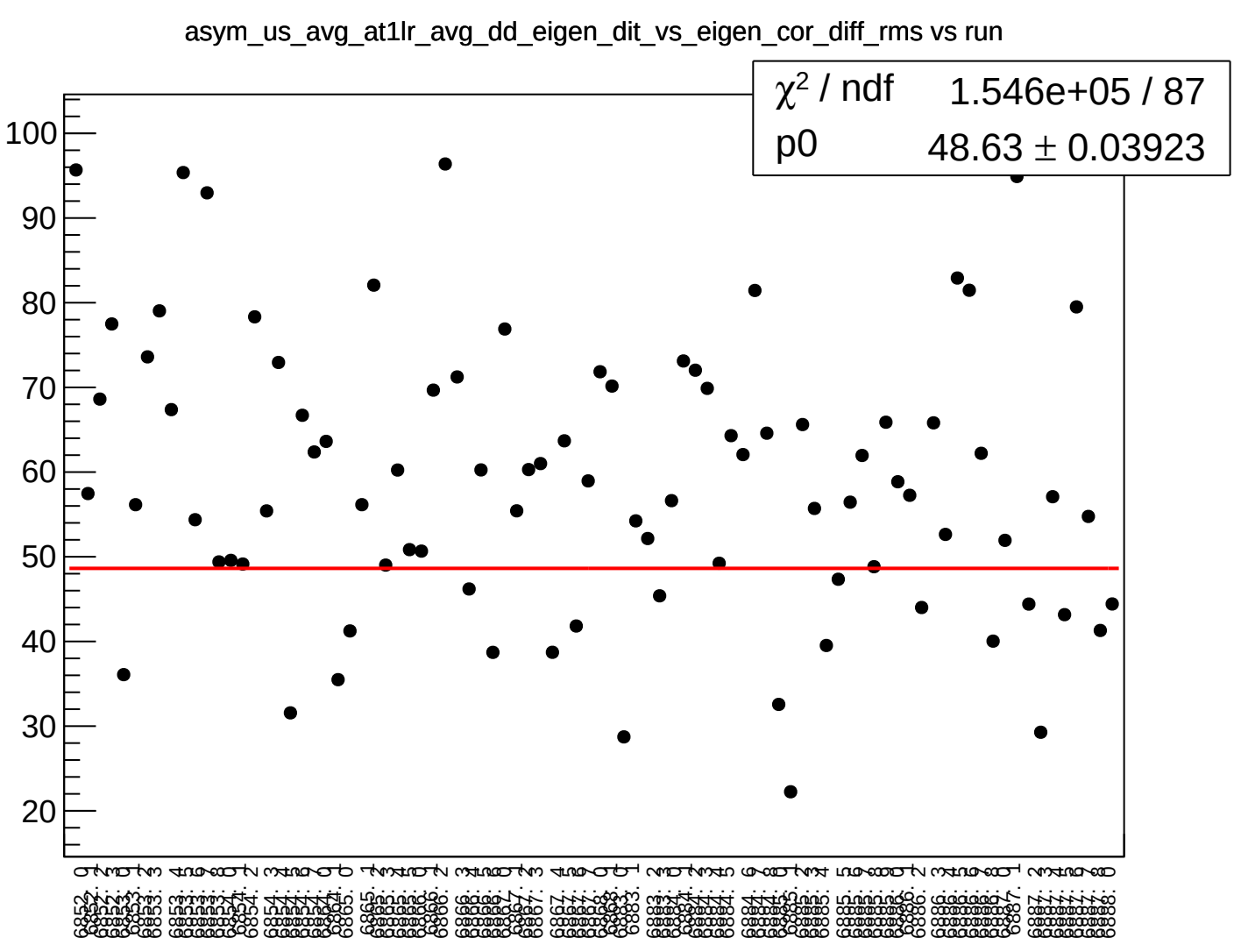

pull1D
Entries 88
Mean 0.03065
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

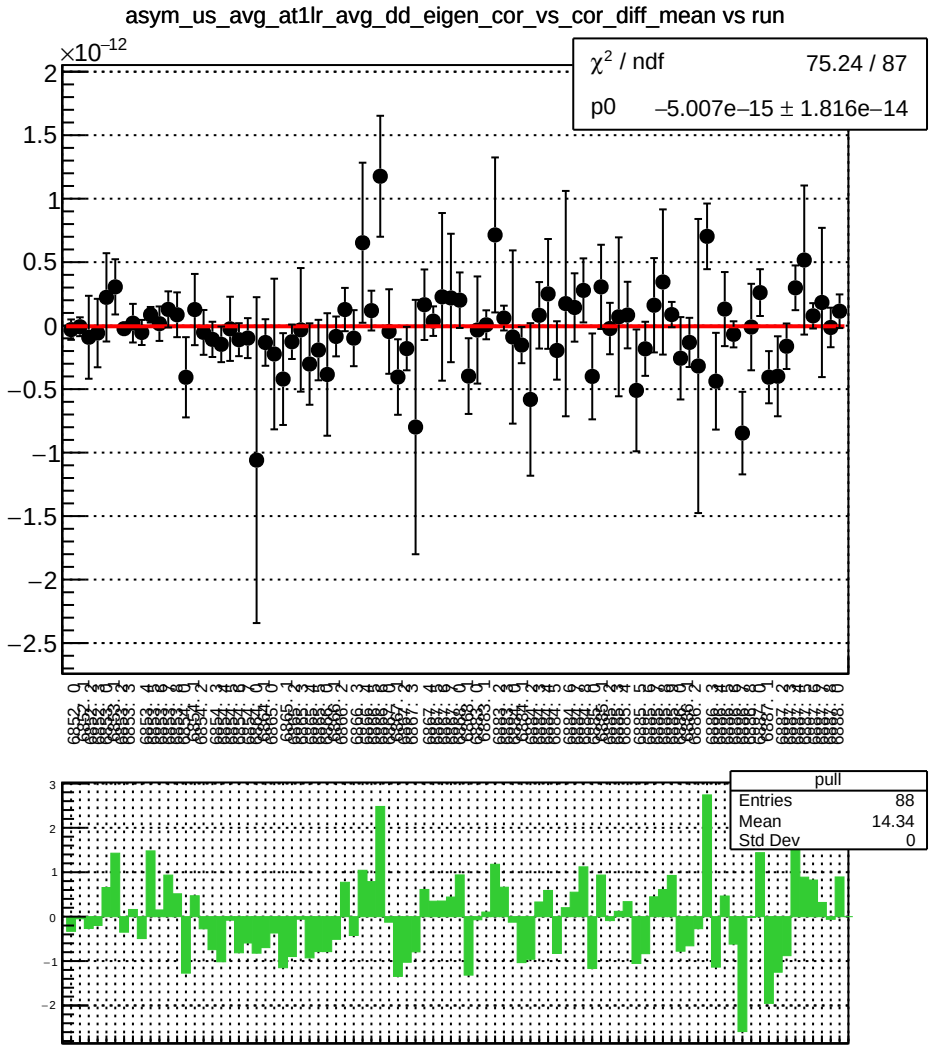

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.99e+04 / 87
p0 0.003098 ± 2.404e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

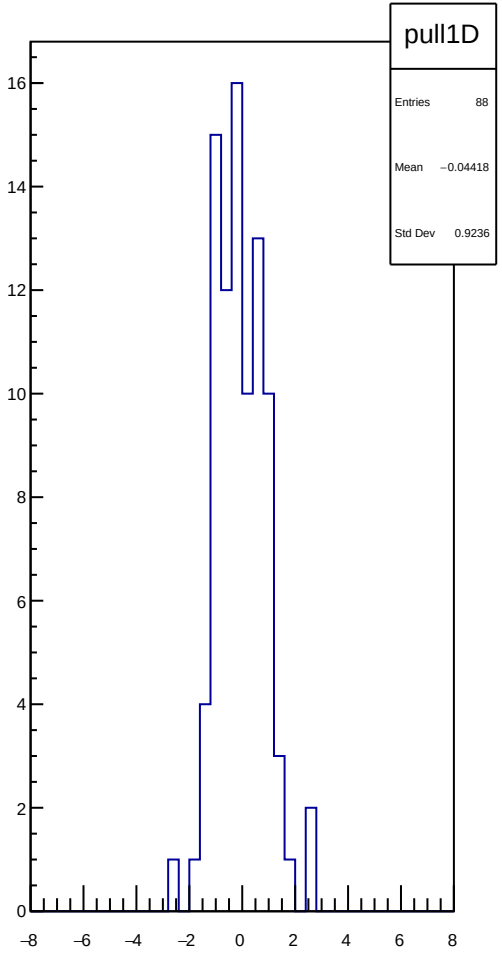

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.9 / 87
p0 0.0396 ± 0.05548
pull
Entries 88
Mean 141.6
Std Dev 0
pull1D
Entries 88
Mean −0.01711
Std Dev 1.122

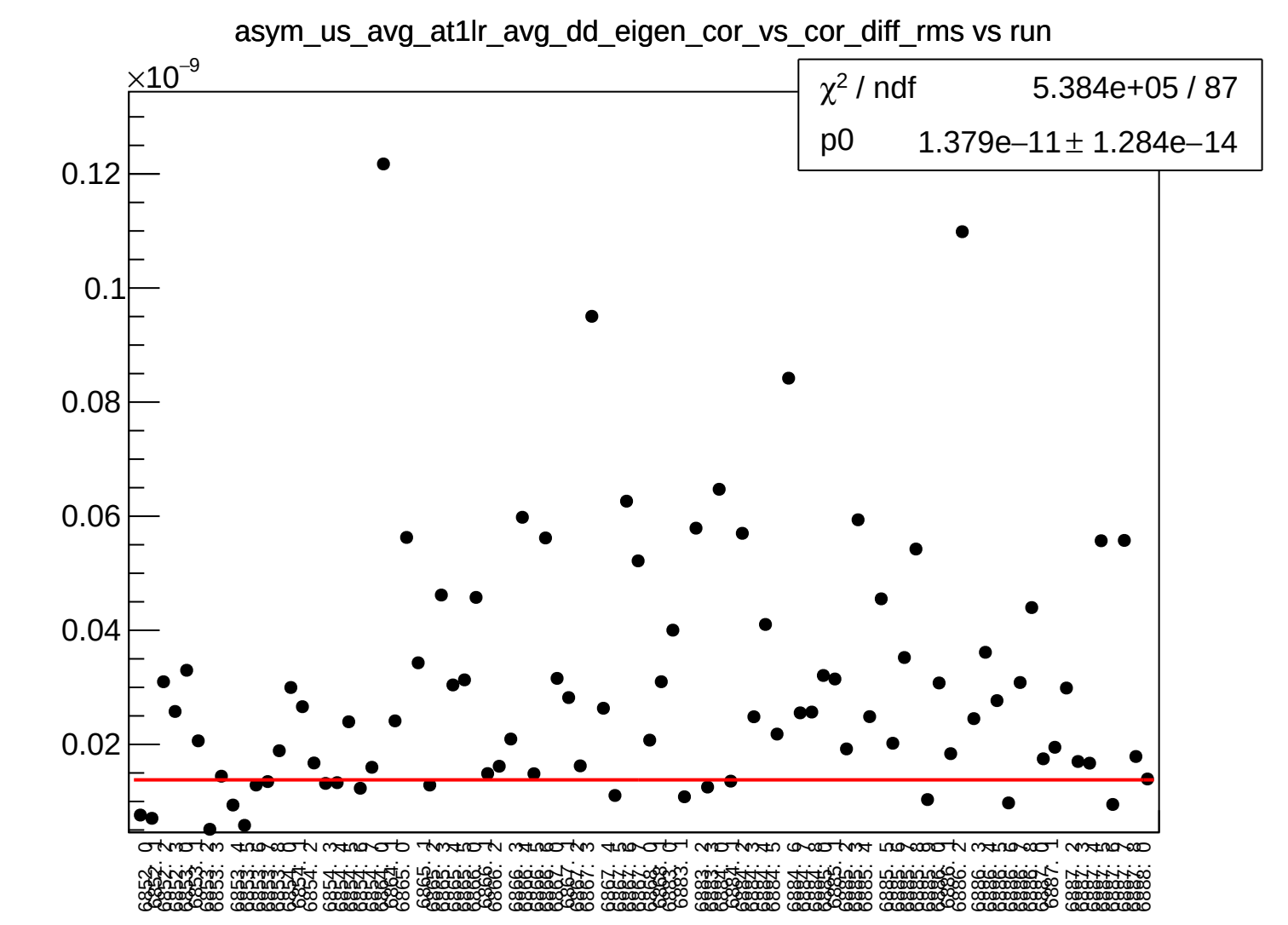

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.546e+05 / 87
p0 48.63 ± 0.03923
100
90
80
70
60
50
40
30
20

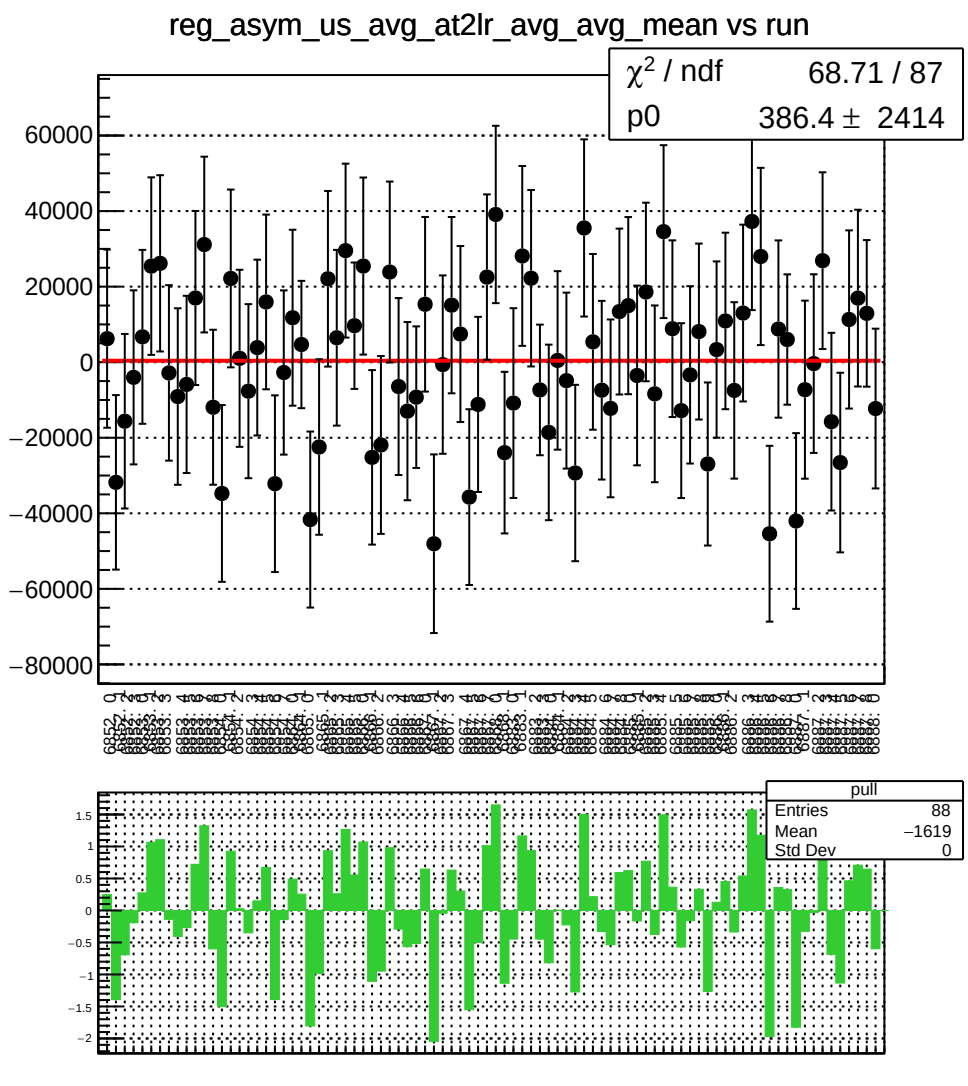

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.9 / 87
p0 0.0396 ± 0.05548
pull
Entries 88
Mean 141.6
Std Dev 0
pull1D
Entries 88
Mean −0.01711
Std Dev 1.122

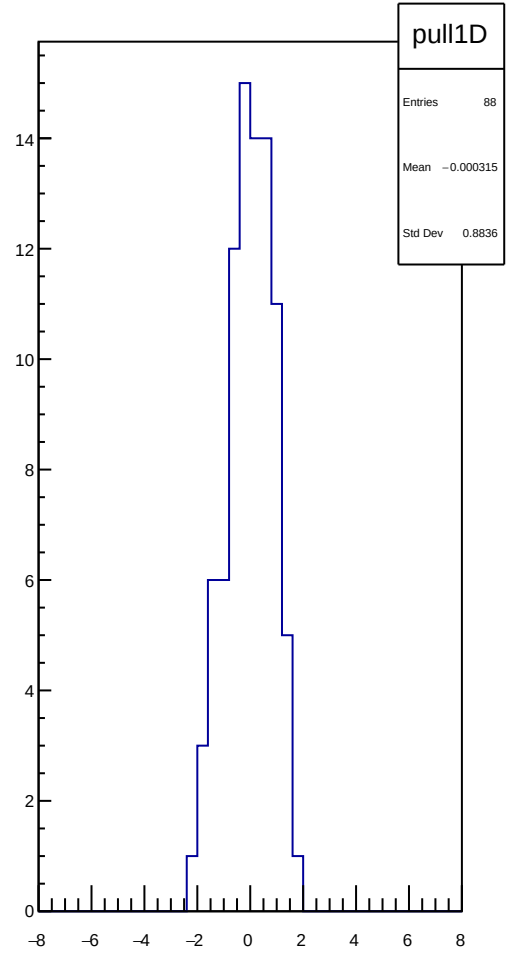

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.546e+05 / 87
p0 48.63 ± 0.03923
100
90
80
70
60
50
40
30
20

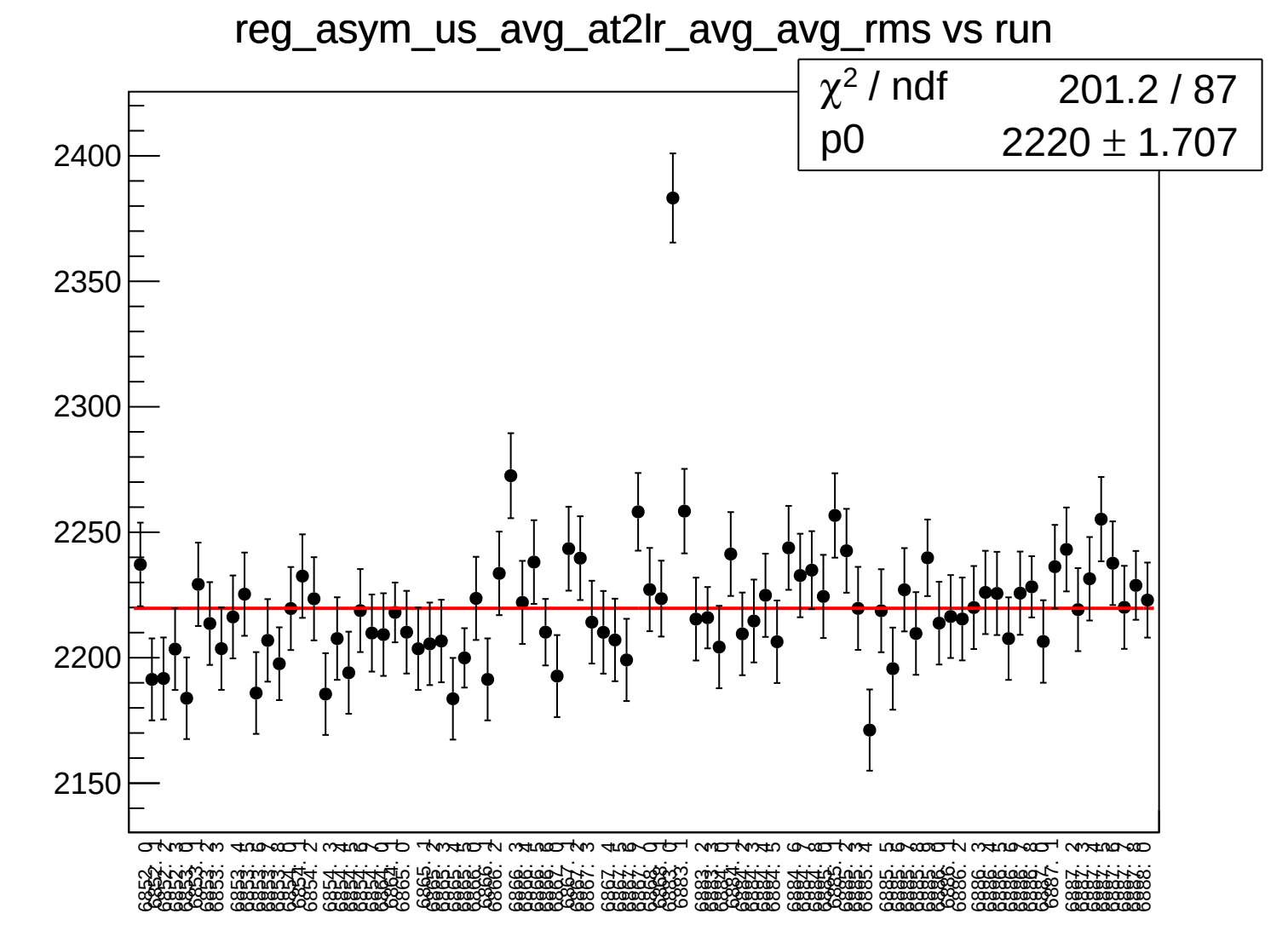

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 75.24 / 87
p0 −5.007e−15 ± 1.816e−14
pull
Entries 88
Mean 14.34
Std Dev 0

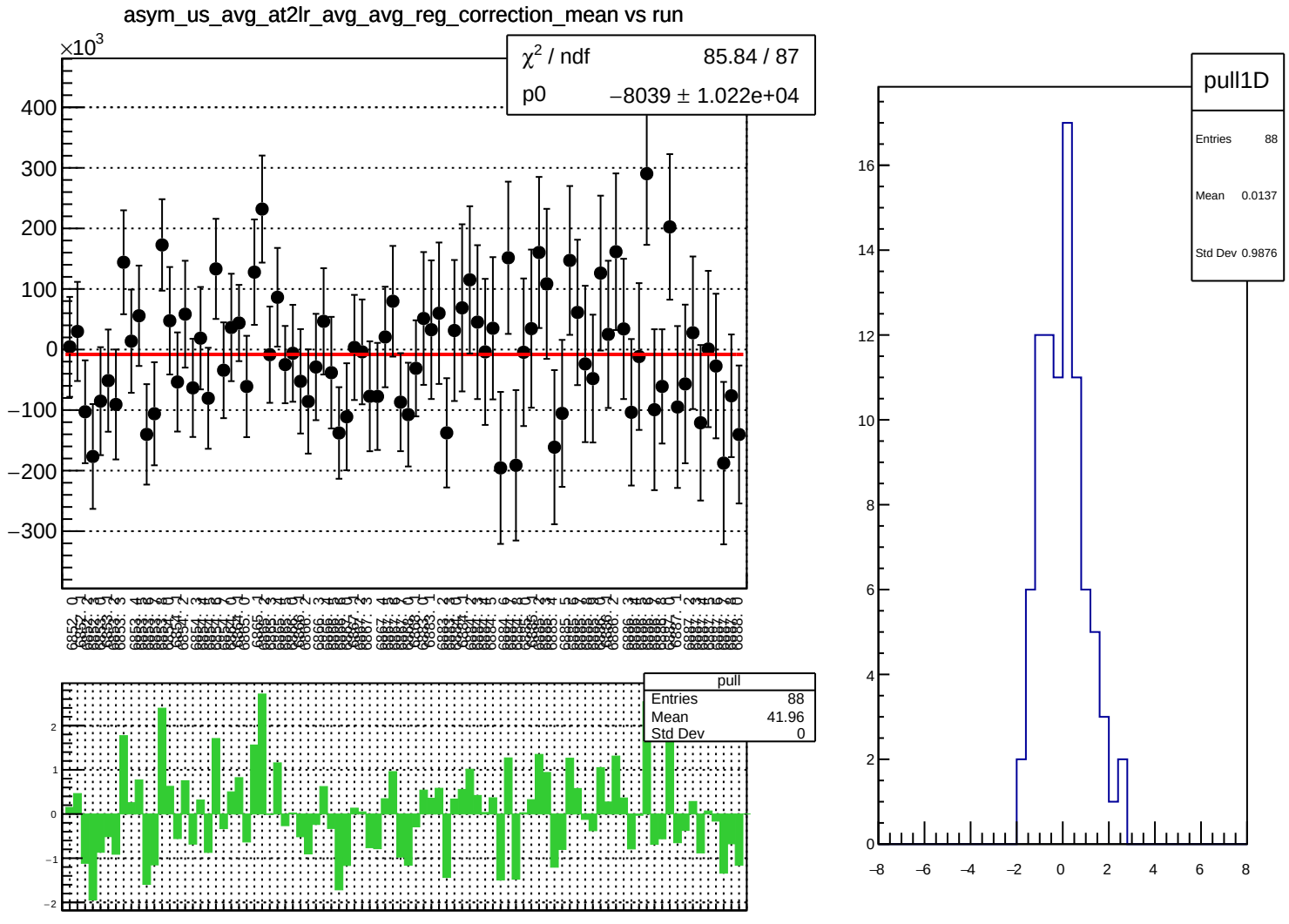

pull1D
Entries 88
Mean −0.04418
Std Dev 0.9236

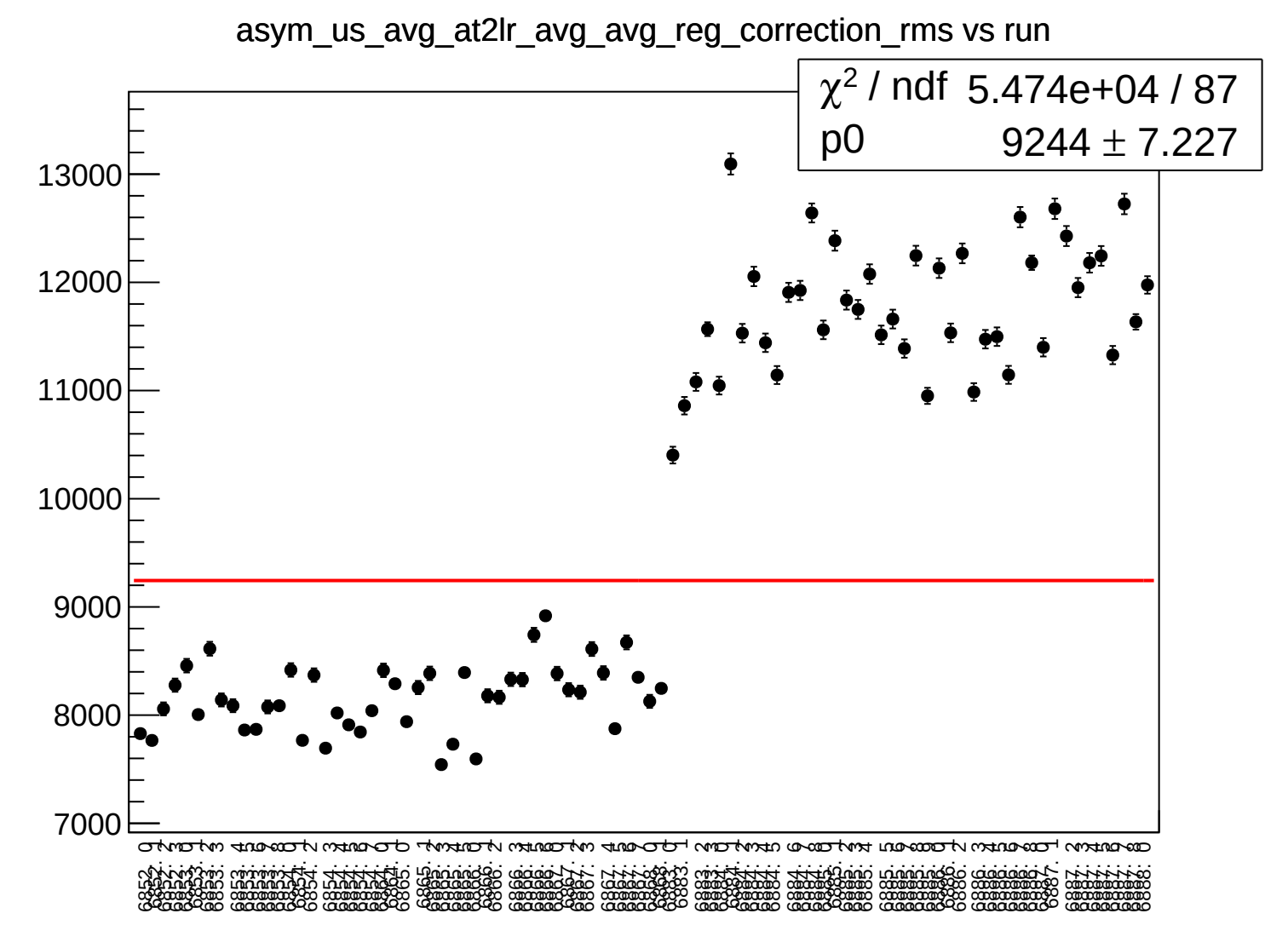

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.384e+05 / 87
p0 1.379e−11 ± 1.284e−14
0.12
0.1
0.08
0.06
0.04
0.02

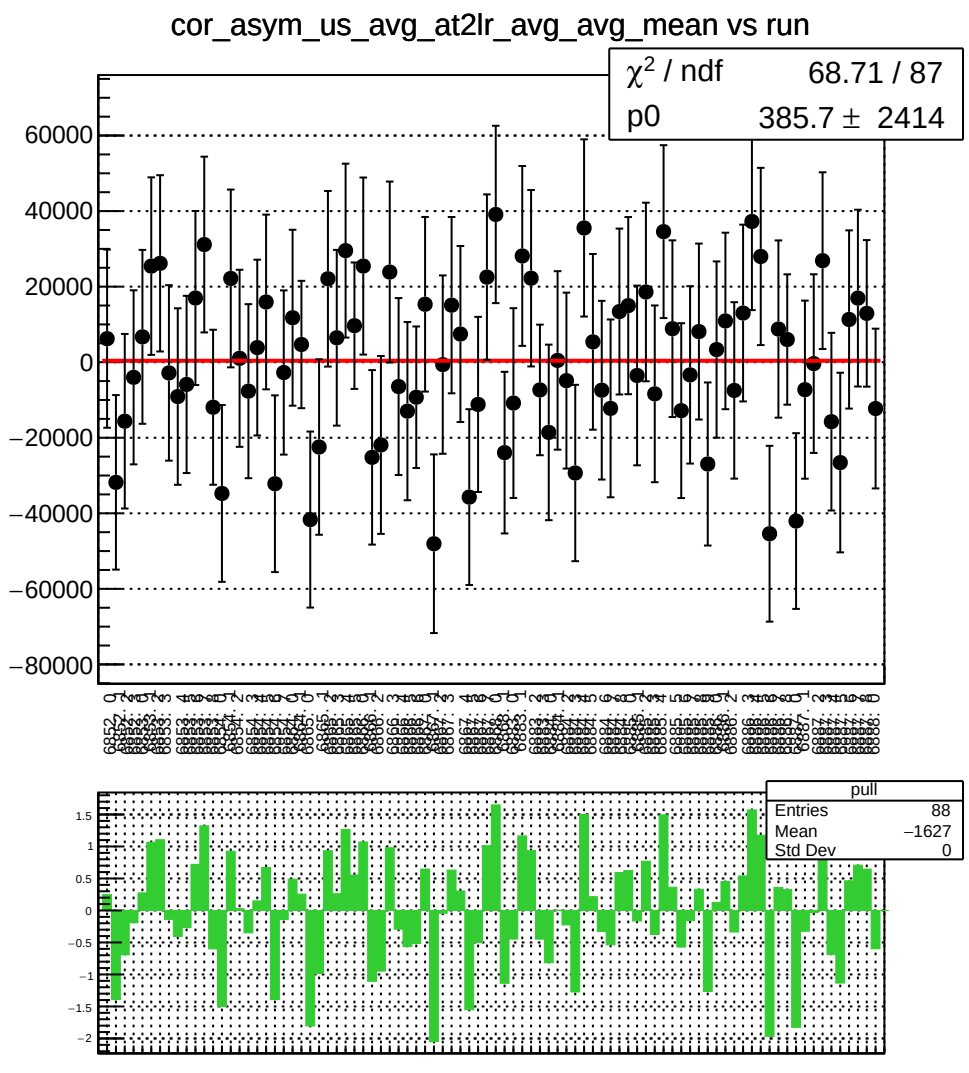

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 68.71 / 87
p0 386.4 ± 2414
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −1619
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

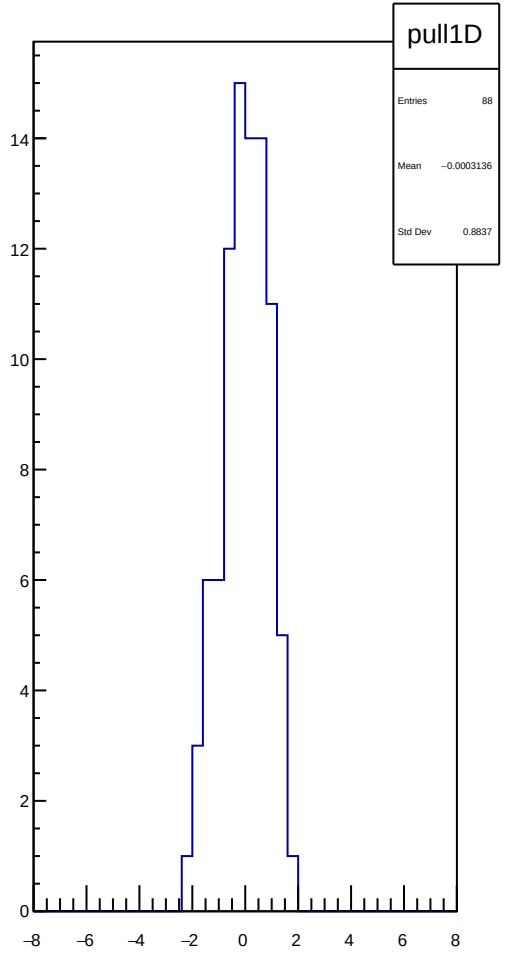

pull1D
Entries 88
Mean −0.000315
Std Dev 0.8836
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

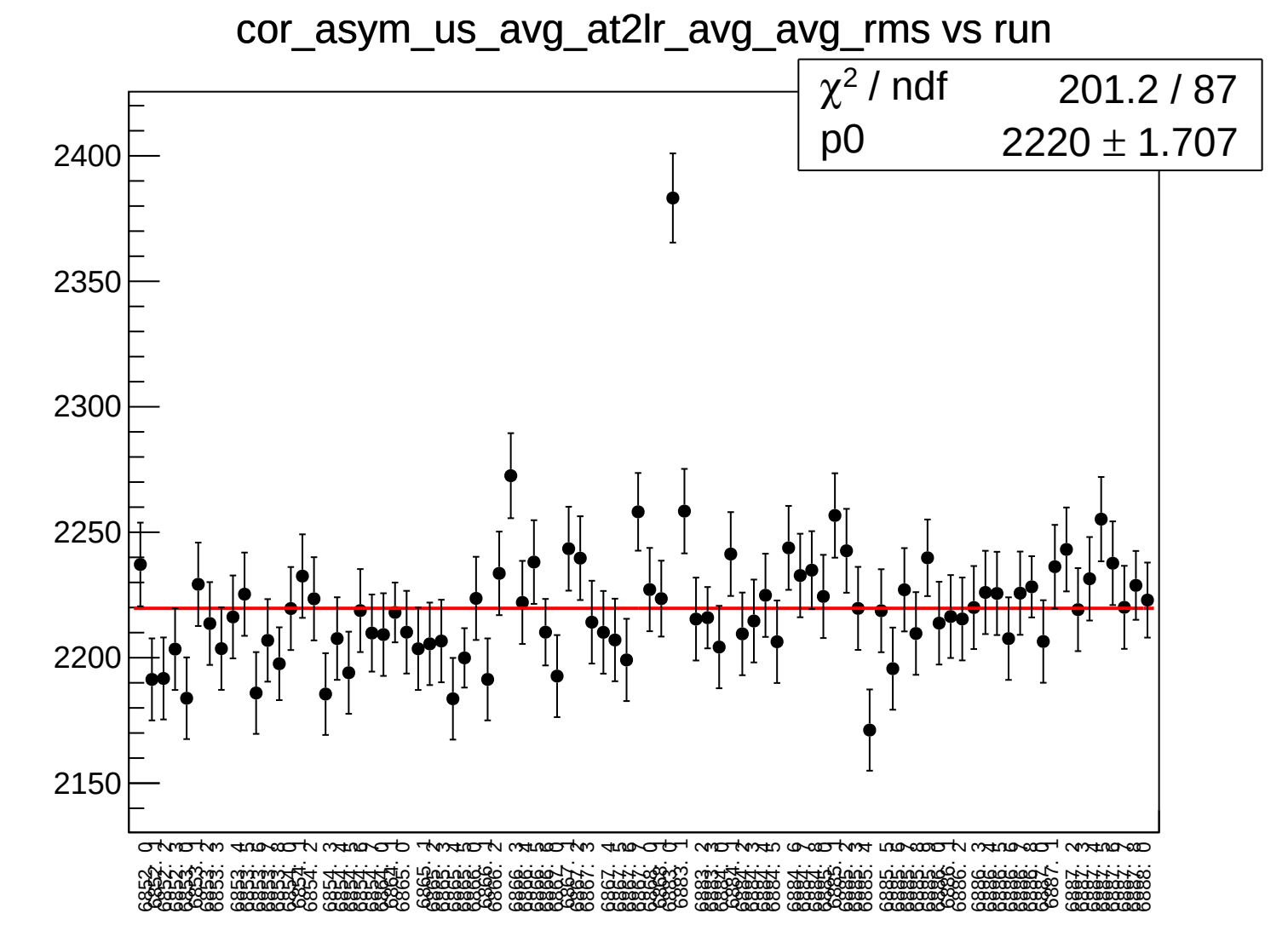

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 201.2 / 87
p0 2220 ± 1.707
2400
2350
2300
2250
2200
2150

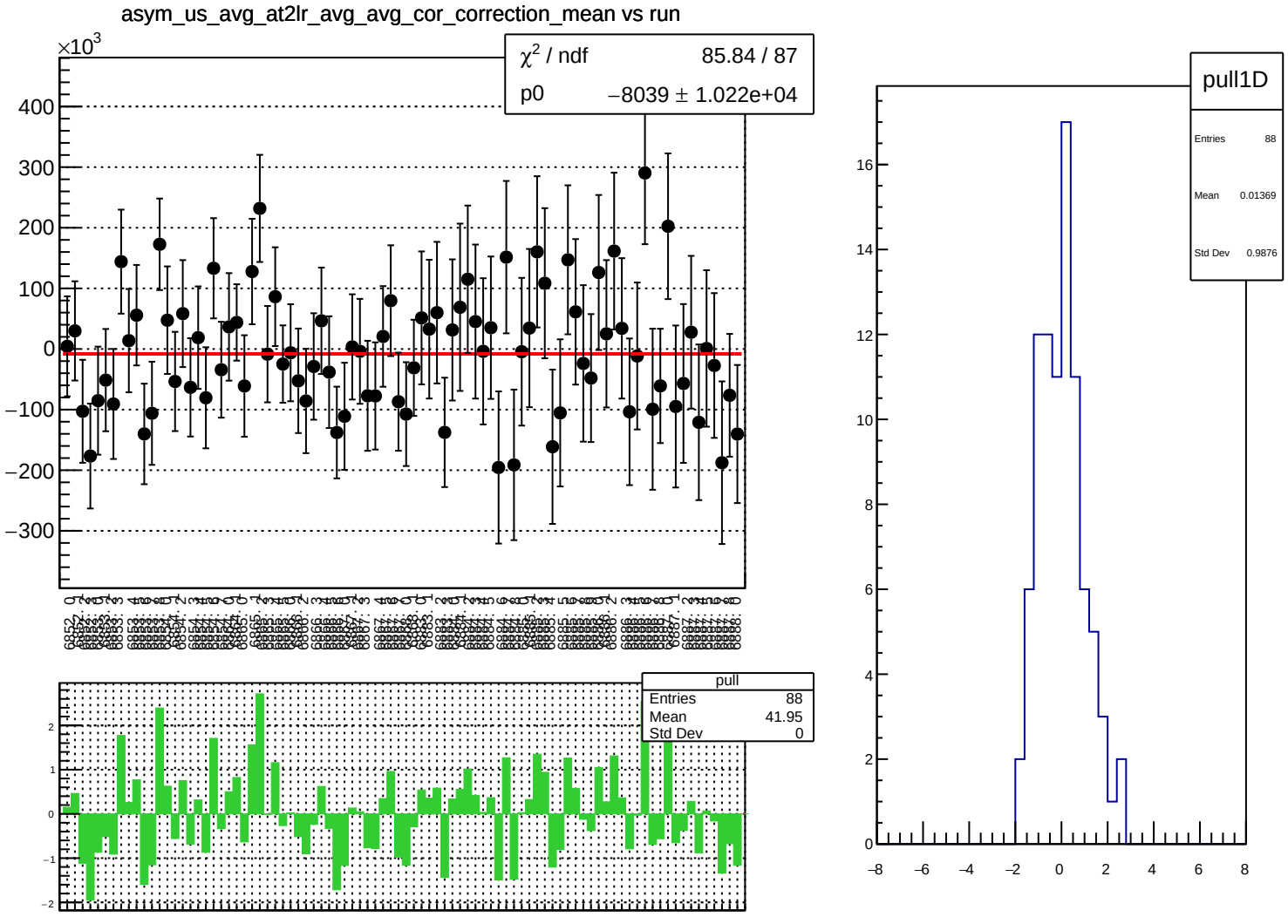

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.84 / 87
p0 −8039 ± 1.022e+04
400
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 41.96
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.0137
Std Dev 0.9876
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

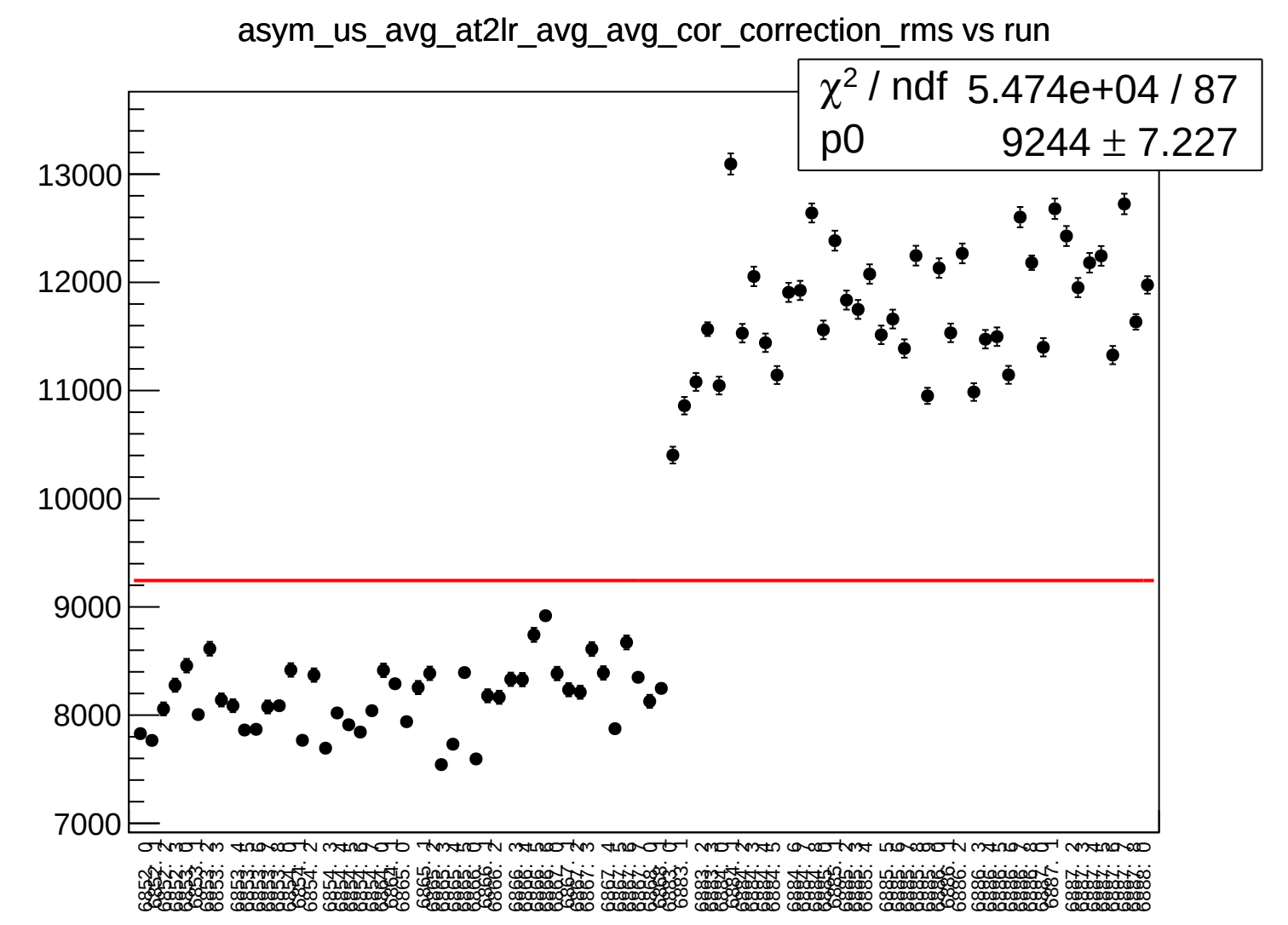

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 5.474e+04 / 87
p0 9244 ± 7.227
13000
12000
11000
10000
9000
8000
7000

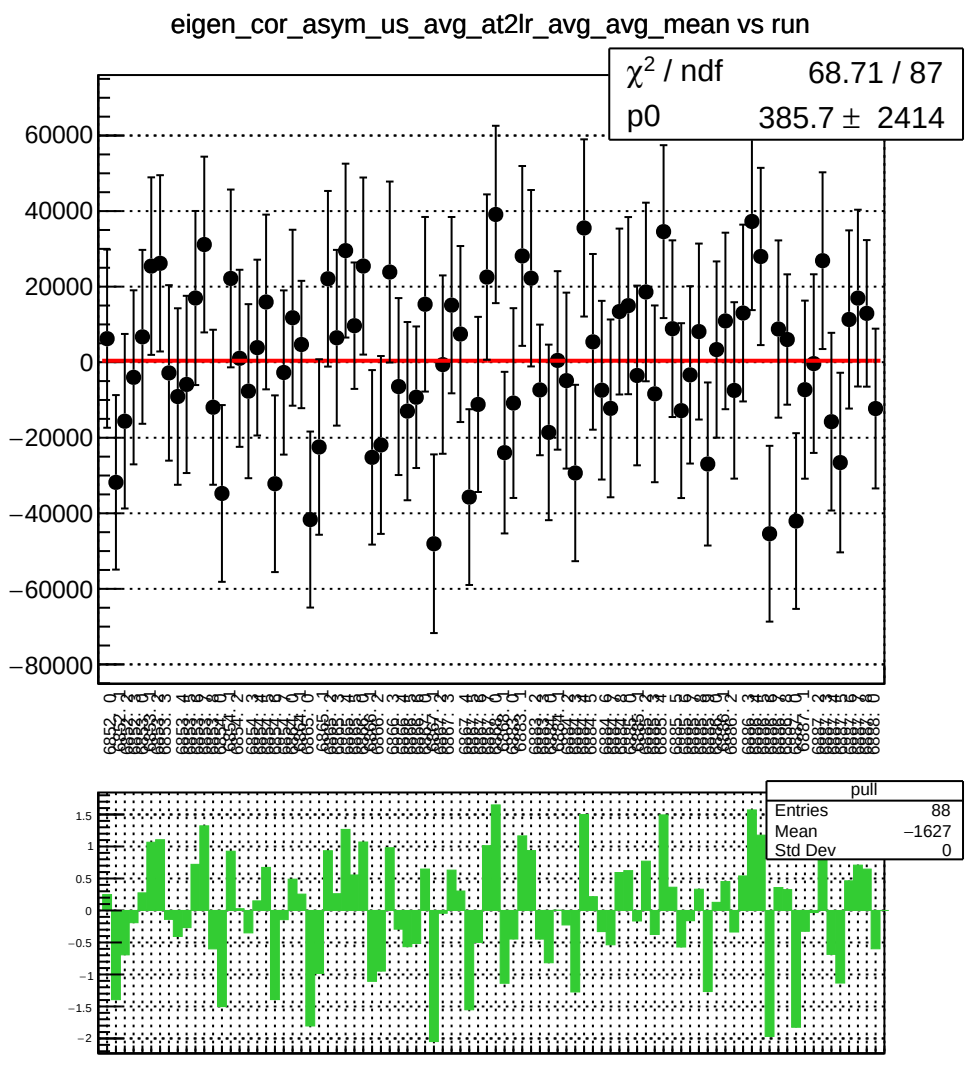

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 68.71 / 87
p0 385.7 ± 2414
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −1627
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

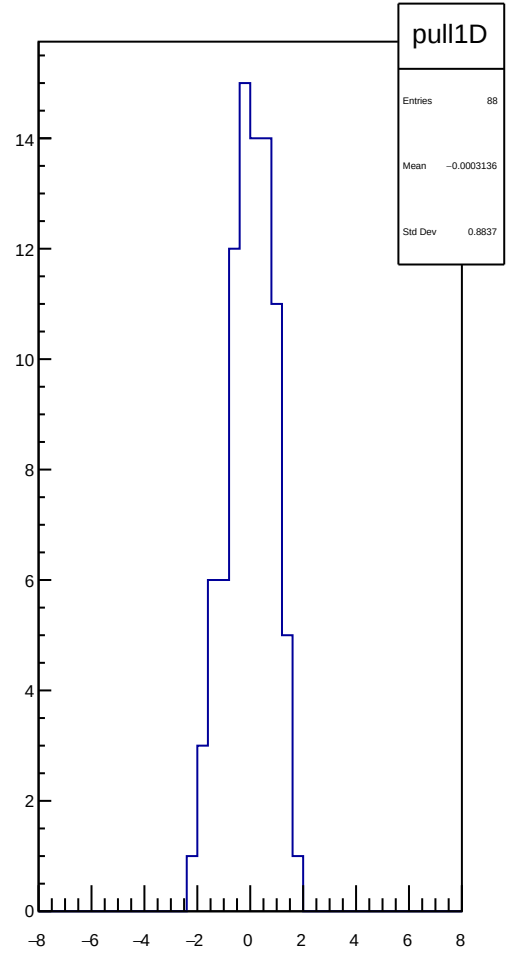

pull1D
Entries 88
Mean −0.0003136
Std Dev 0.8837
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 201.2 / 87
p0 2220 ± 1.707
2400
2350
2300
2250
2200
2150


asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.84 / 87
p0 −8039 ± 1.022e+04
400
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 41.95
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01369
Std Dev 0.9876
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 5.474e+04 / 87
p0 9244 ± 7.227
13000
12000
11000
10000
9000
8000
7000


eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 68.71 / 87
p0 385.7 ± 2414
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −1627
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean −0.0003136
Std Dev 0.8837
14
12
10
8
6
4
2
0
−8
−6
−4
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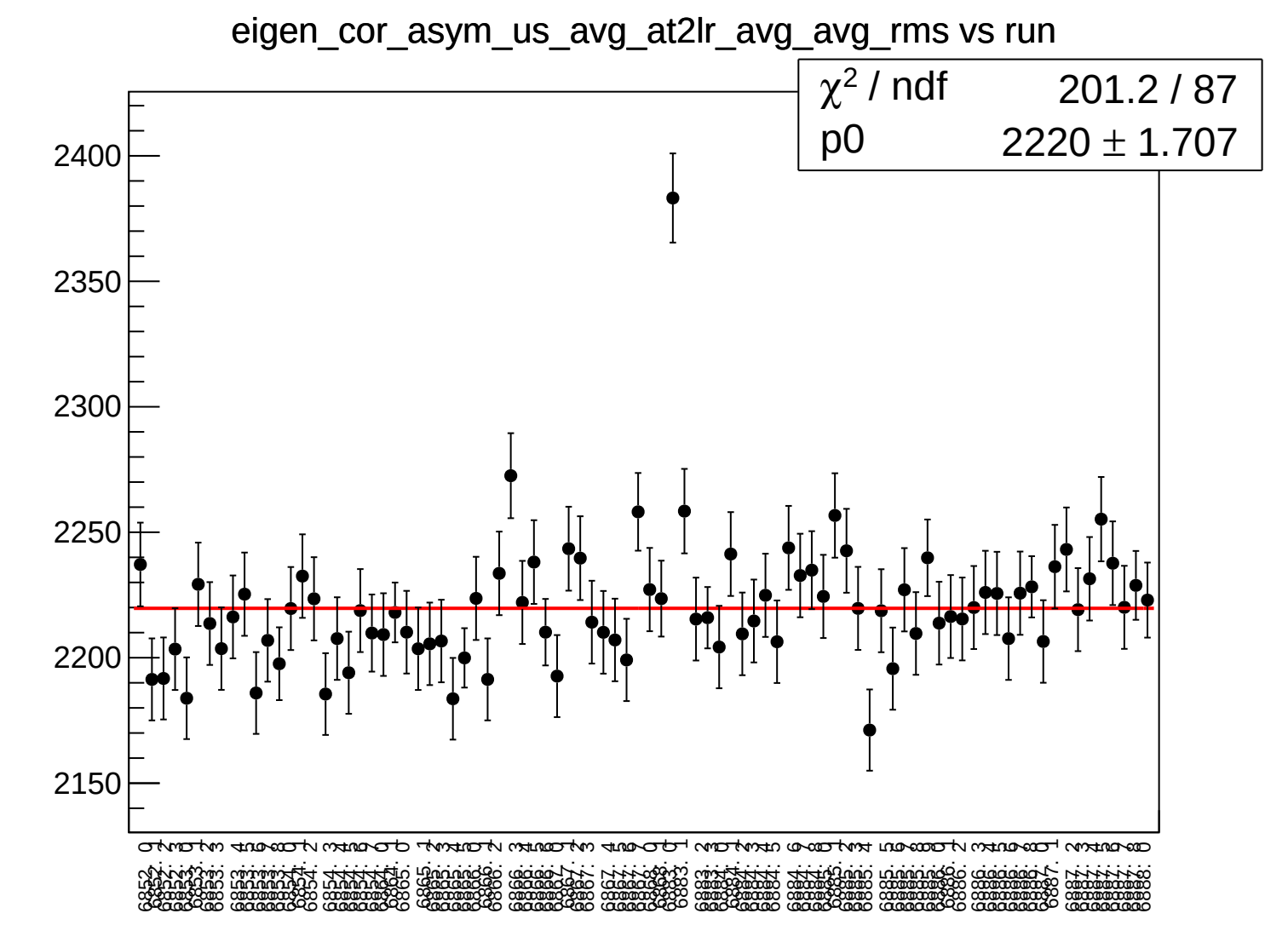
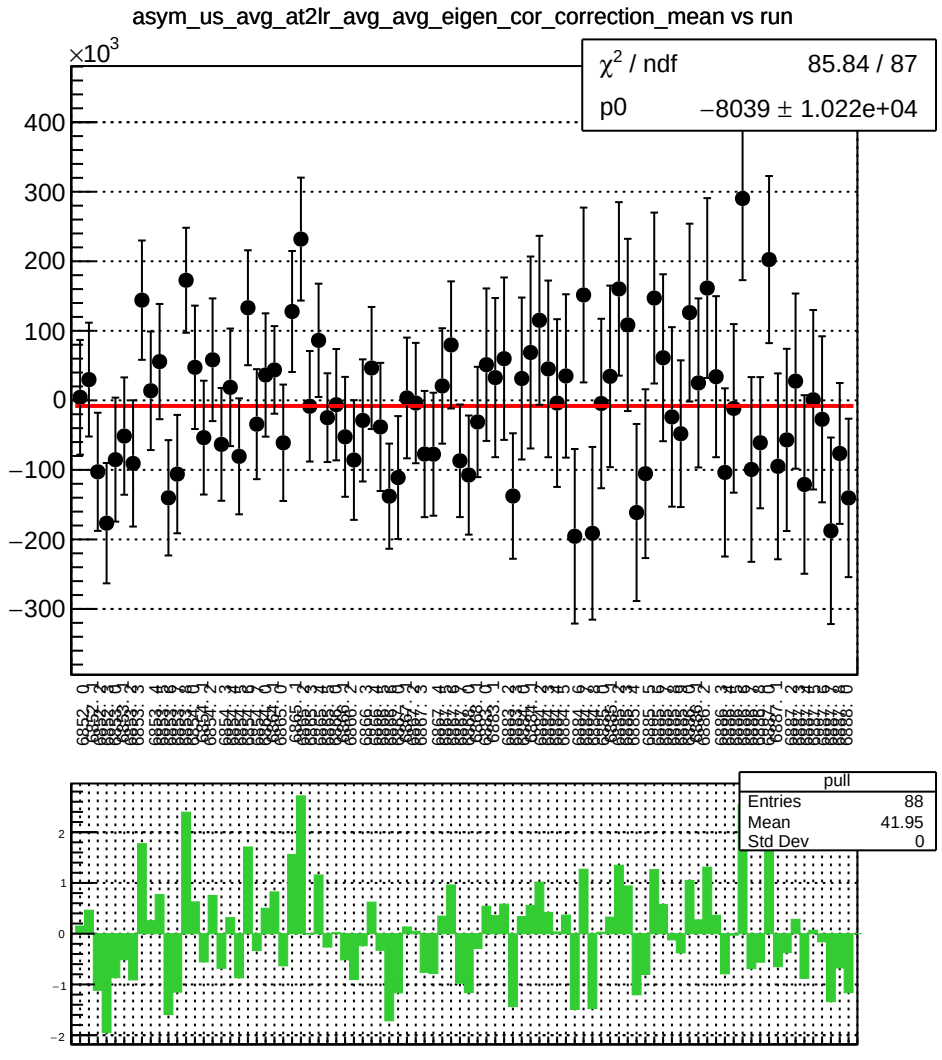
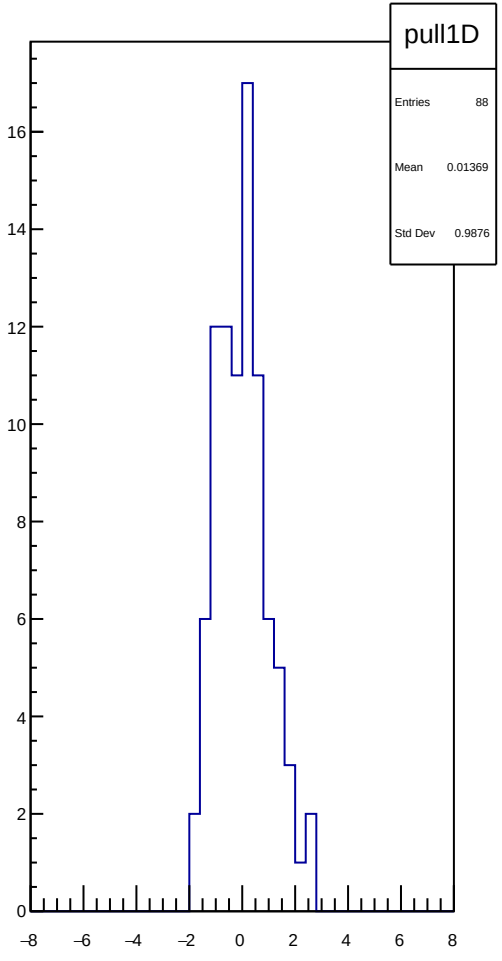
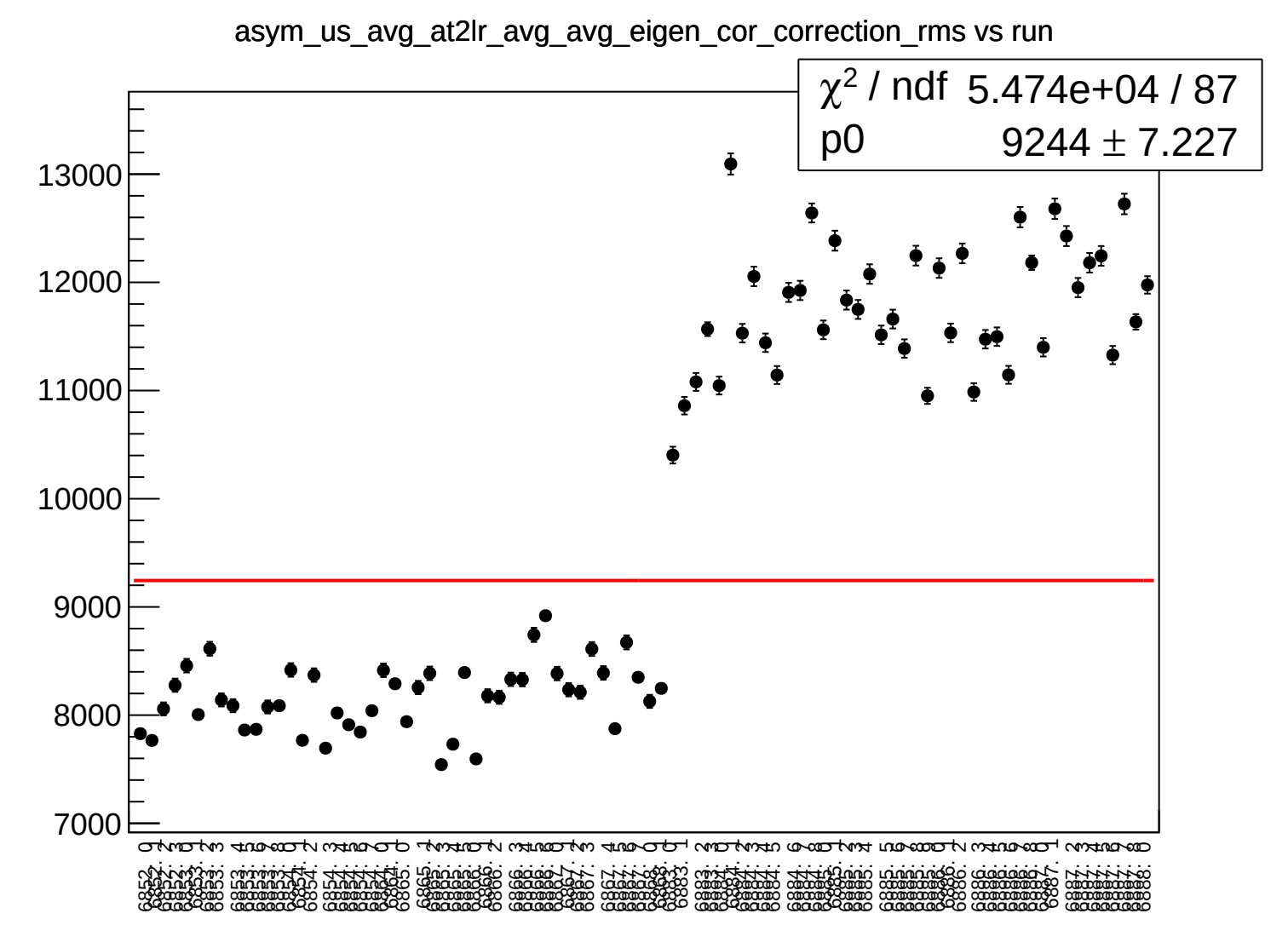
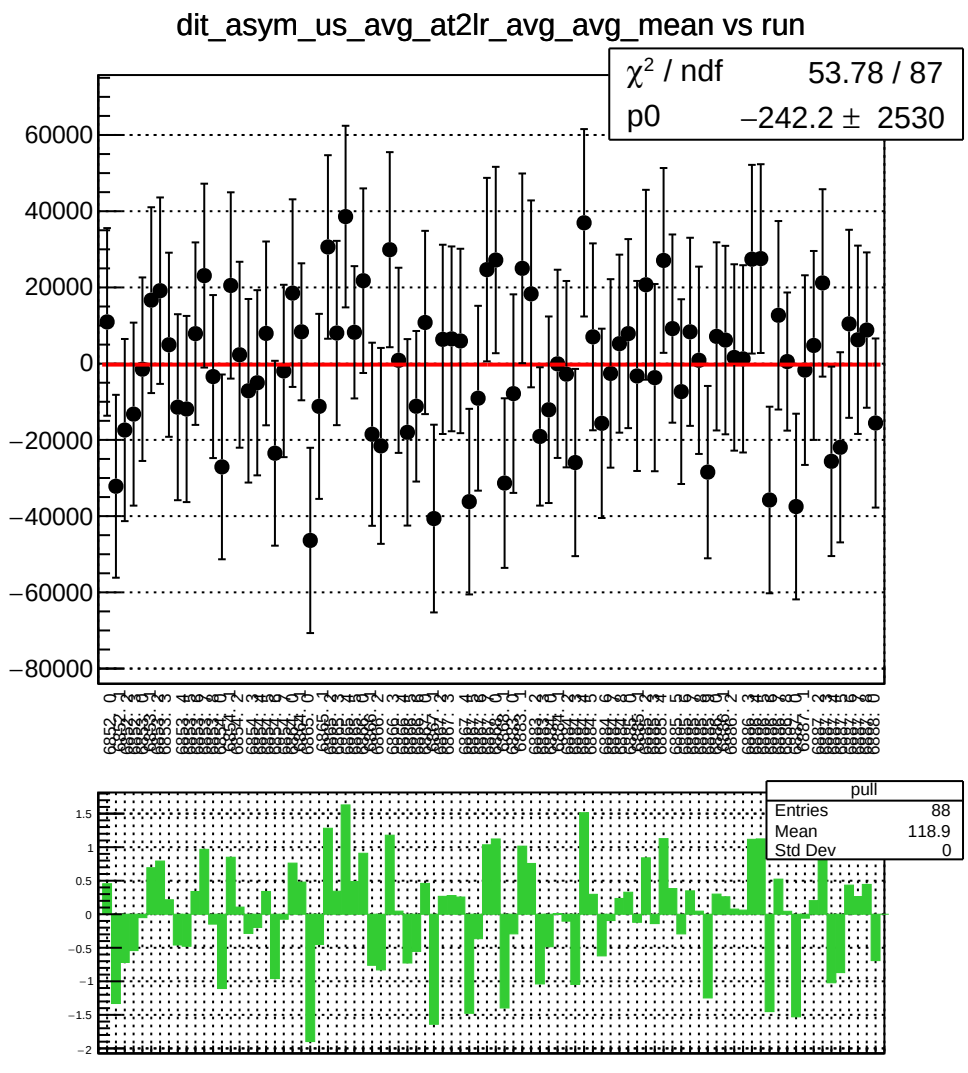
0
2
4
6
8

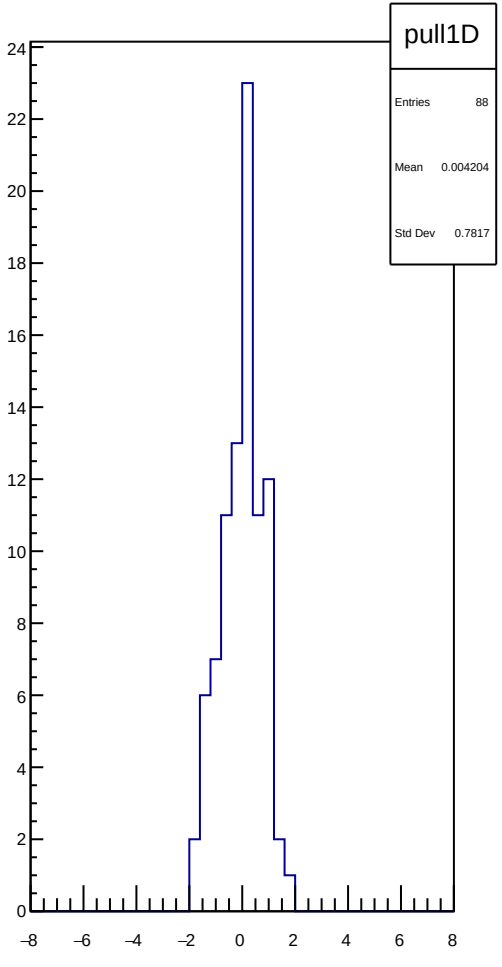

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 201.2 / 87
p0 2220 ± 1.707
2400
2350
2300
2250
2200
2150

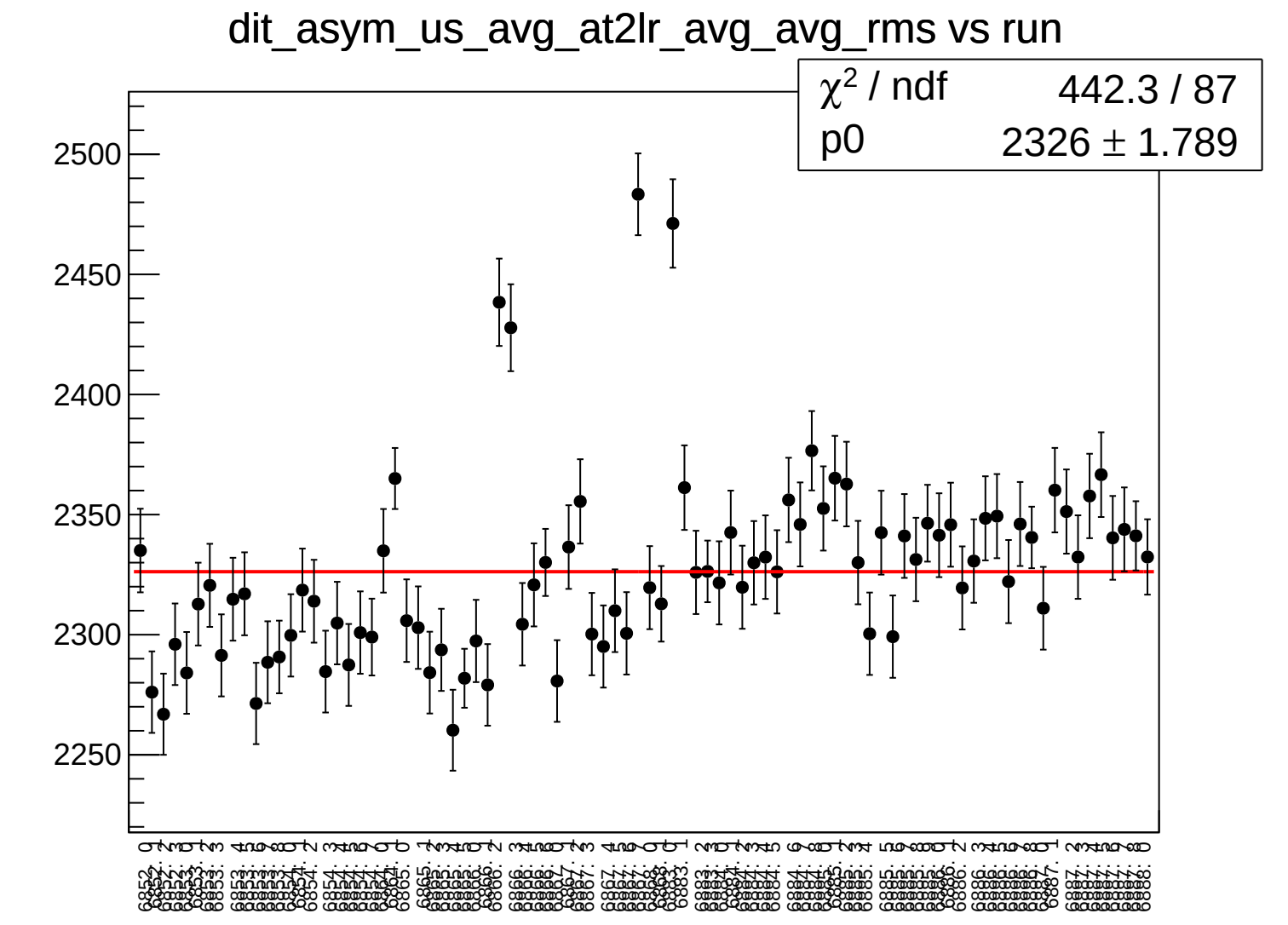

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.84 / 87
p0 −8039 ± 1.022e+04
pull
Entries 88
Mean 41.95
Std Dev 0

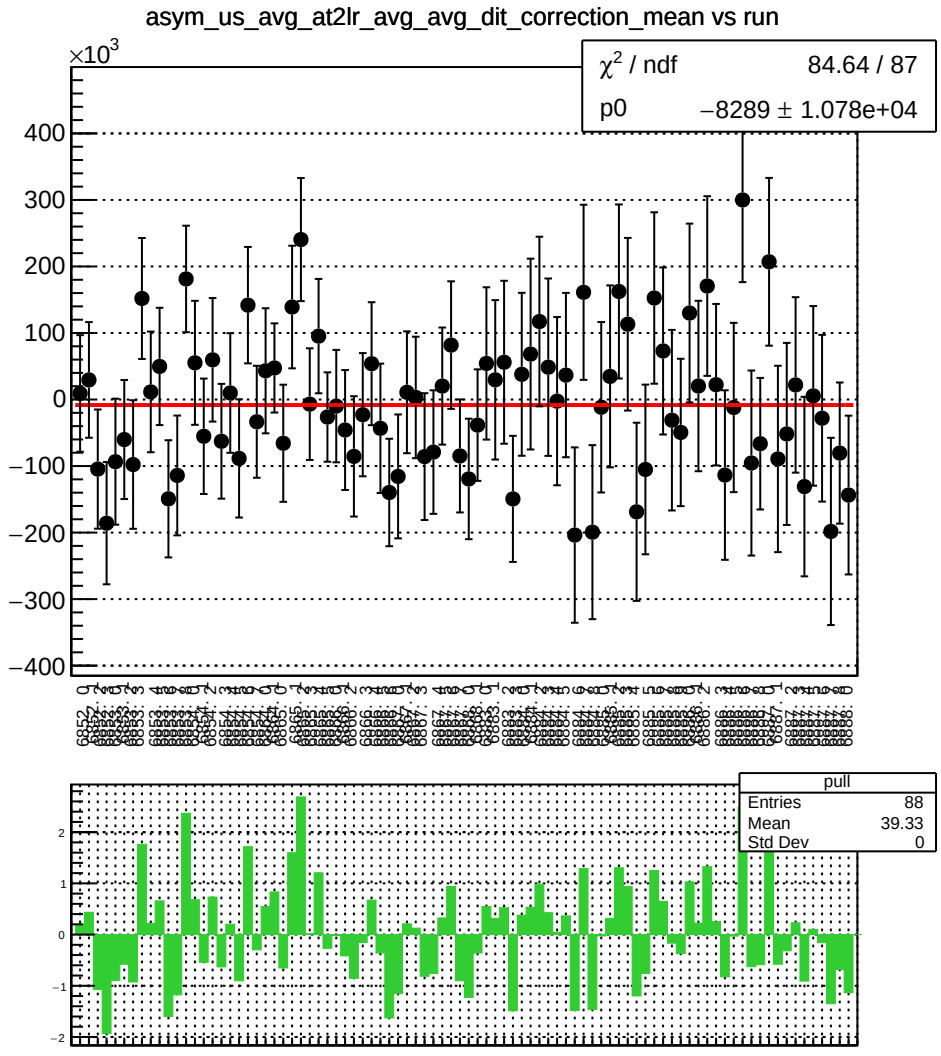

pull1D
Entries 88
Mean 0.01369
Std Dev 0.9876

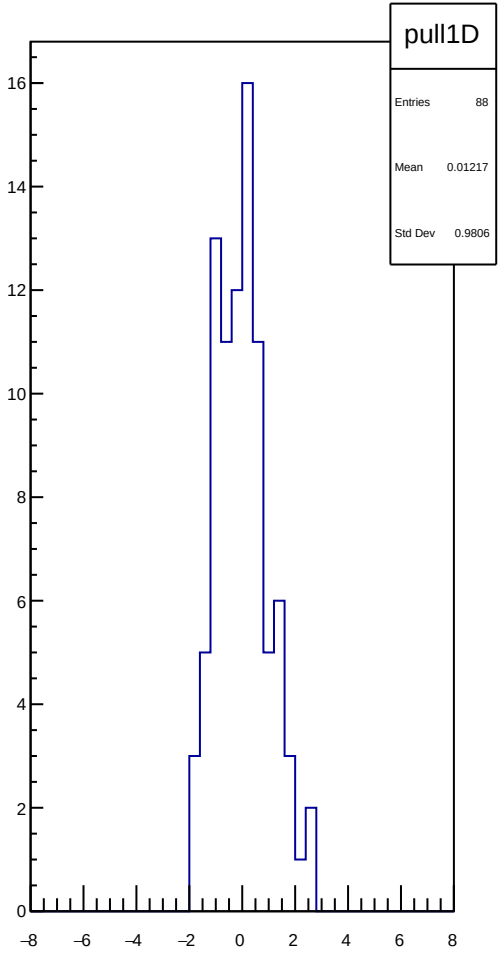

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.474e+04 / 87
p0 9244 ± 7.227
13000
12000
11000
10000
9000
8000
7000

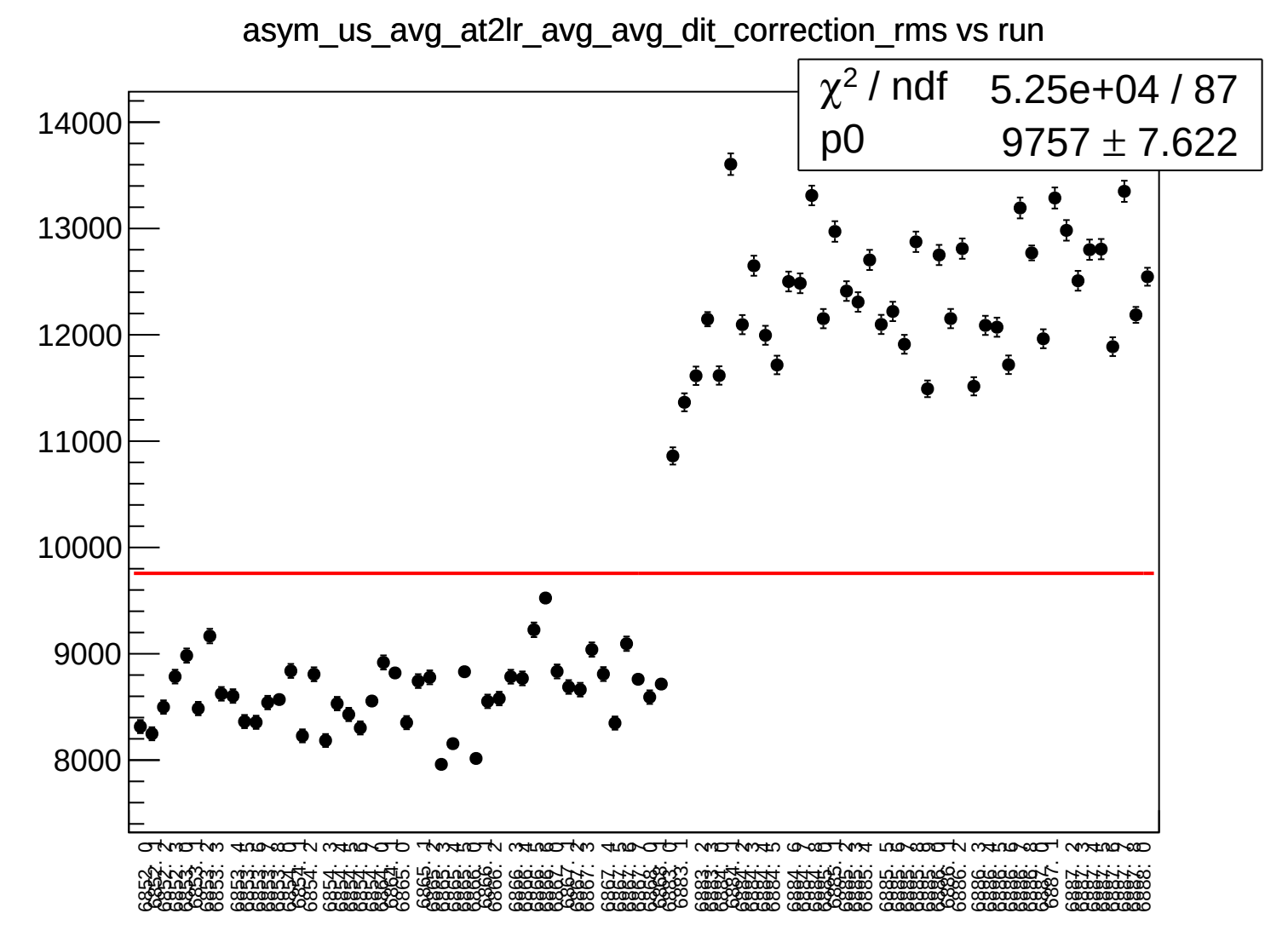

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 53.78 / 87
p0 −242.2 ± 2530
pull
Entries 88
Mean 118.9
Std Dev 0

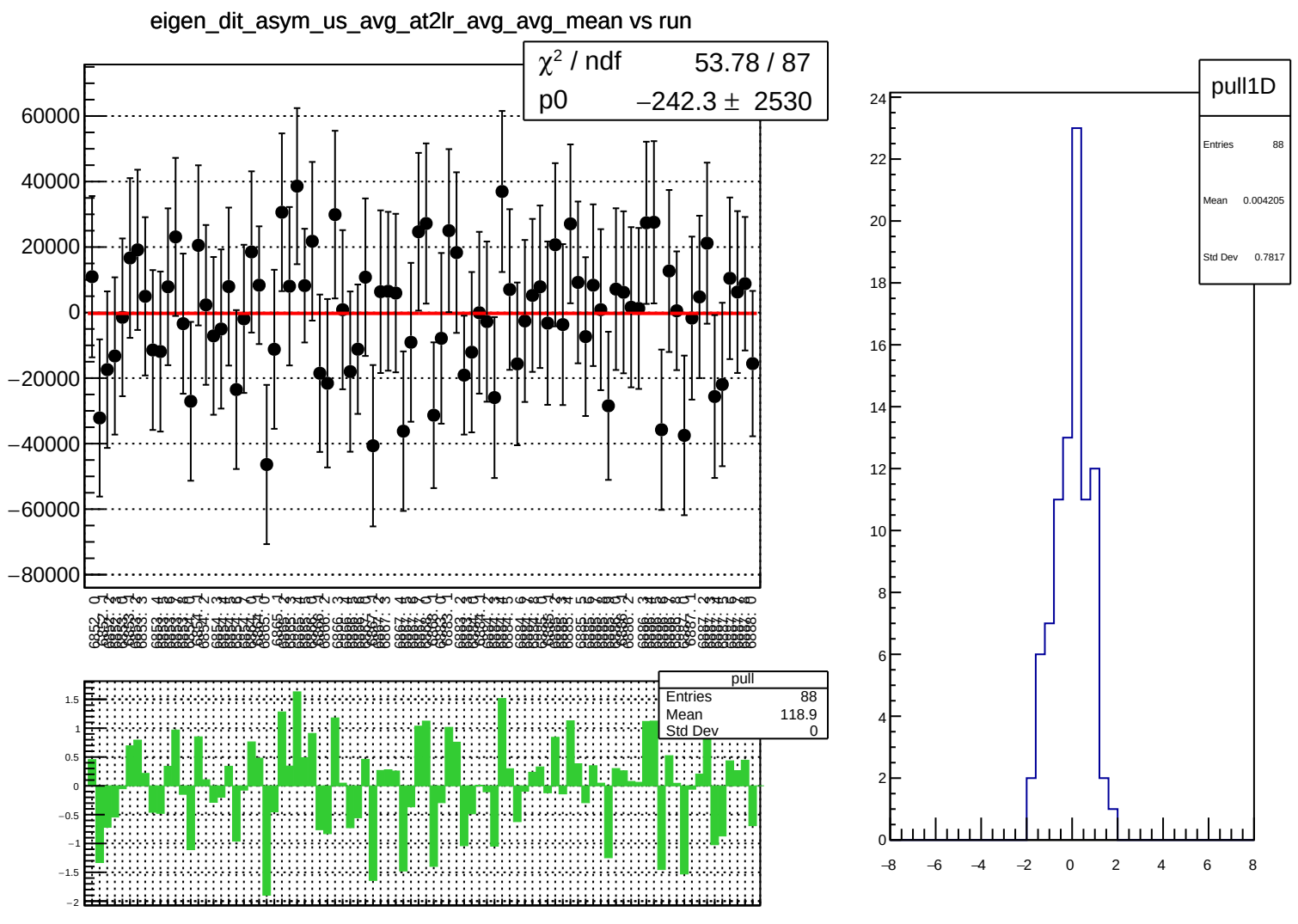

pull1D
Entries 88
Mean 0.004204
Std Dev 0.7817

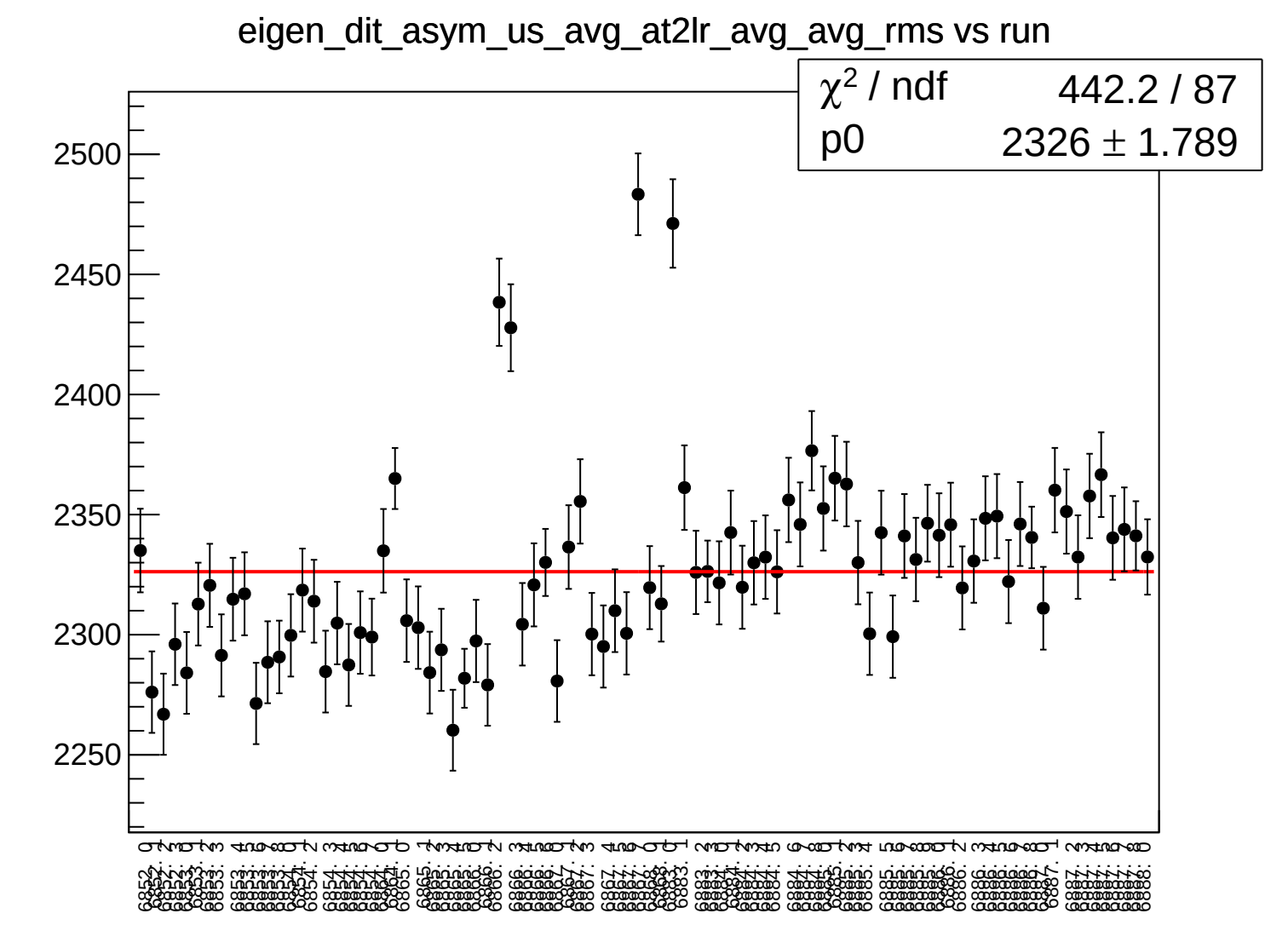

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 442.3 / 87
p0 2326 ± 1.789
2500
2450
2400
2350
2300
2250

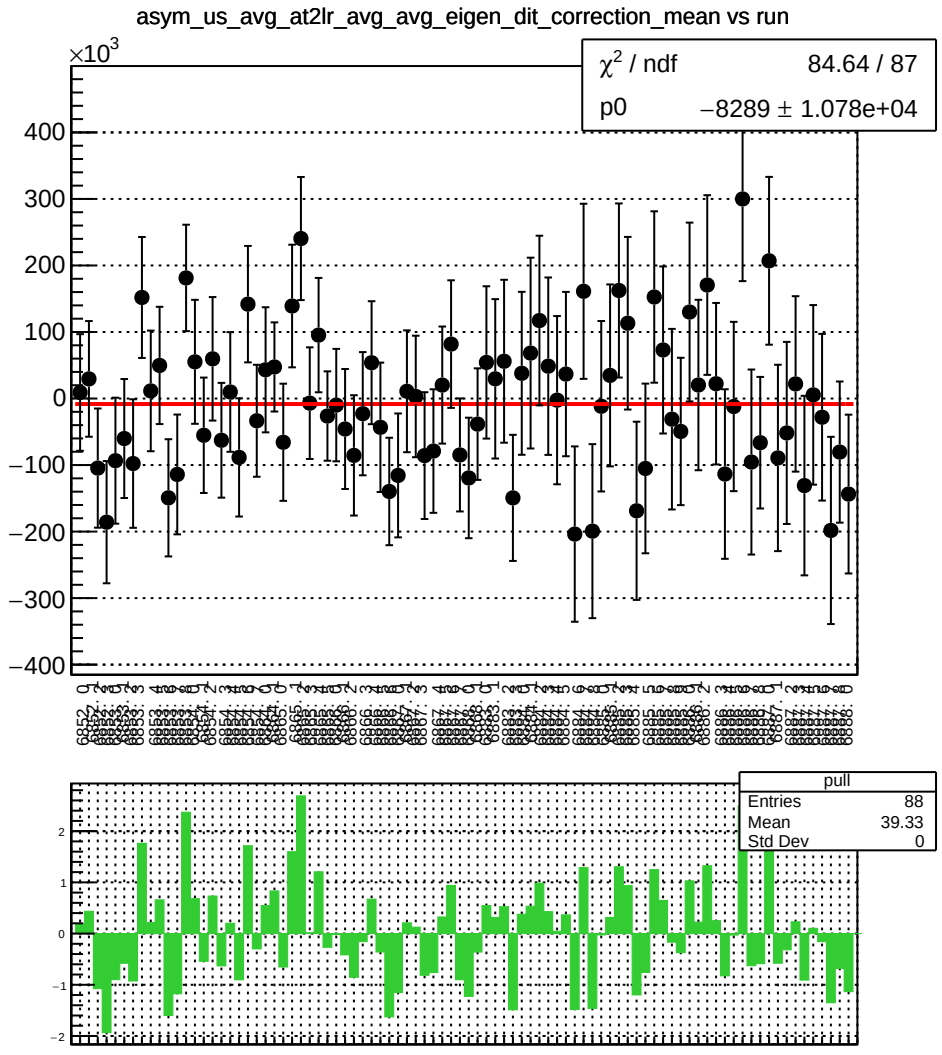

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.64 / 87
p0 −8289 ± 1.078e+04
pull
Entries 88
Mean 39.33
Std Dev 0

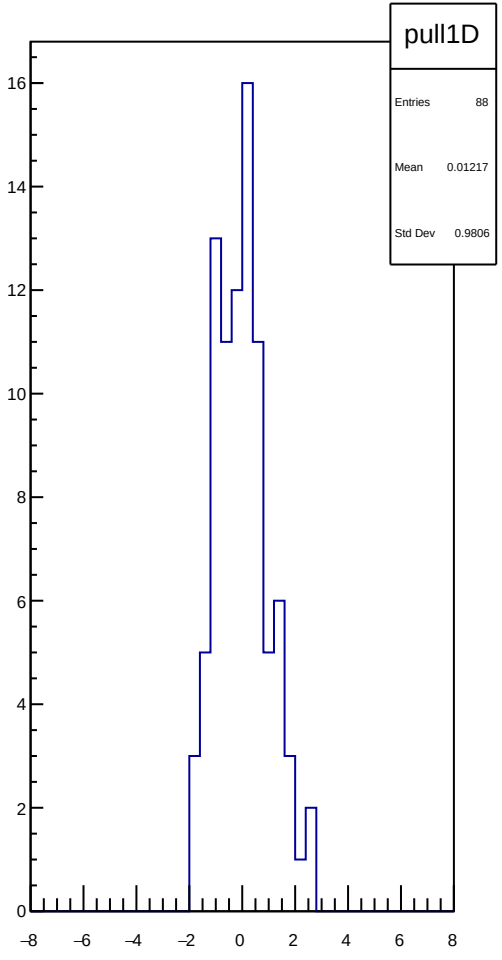

pull1D
Entries 88
Mean 0.01217
Std Dev 0.9806

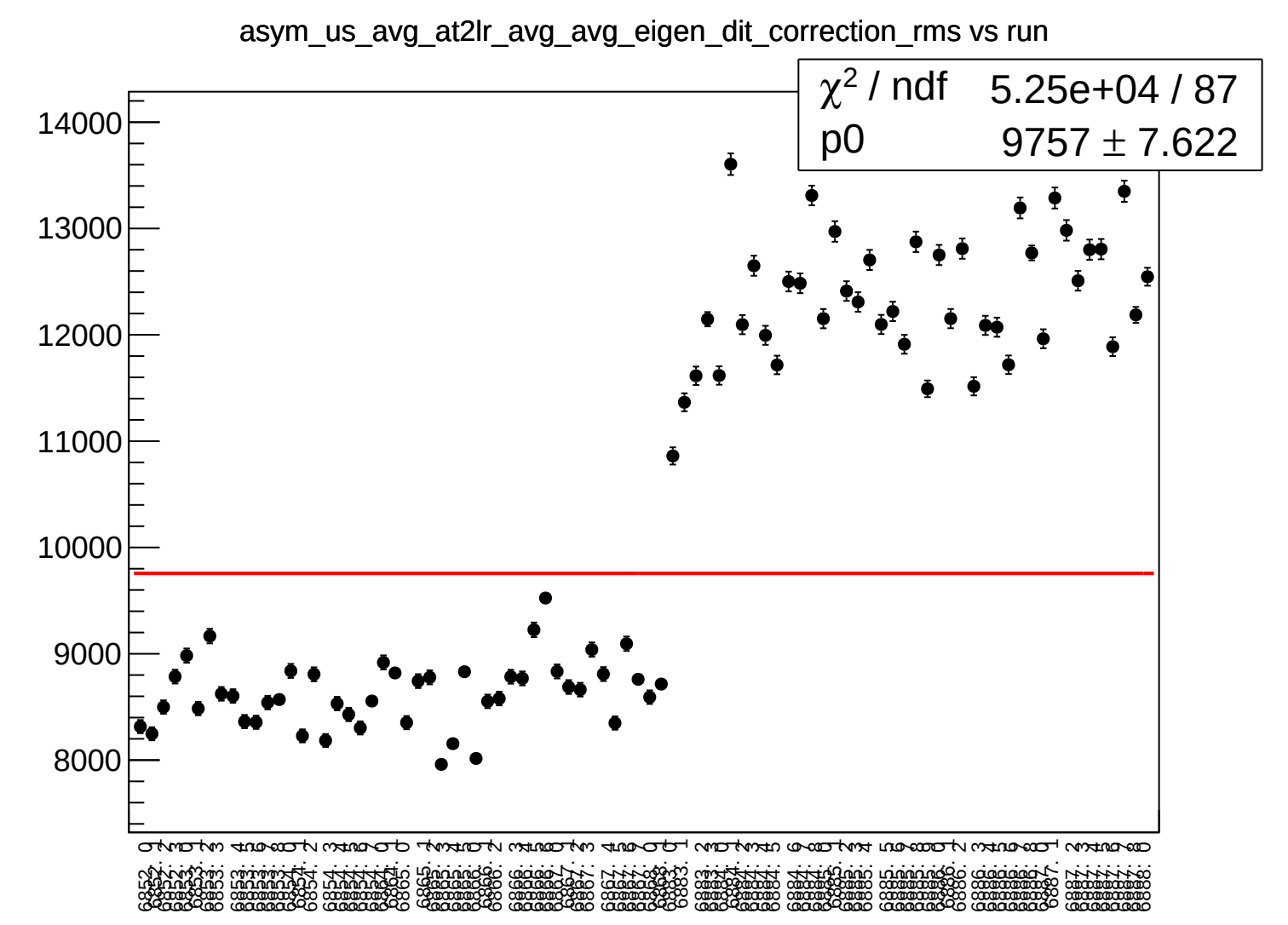

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 5.25e+04 / 87
p0 9757 ± 7.622
14000
13000
12000
11000
10000
9000
8000

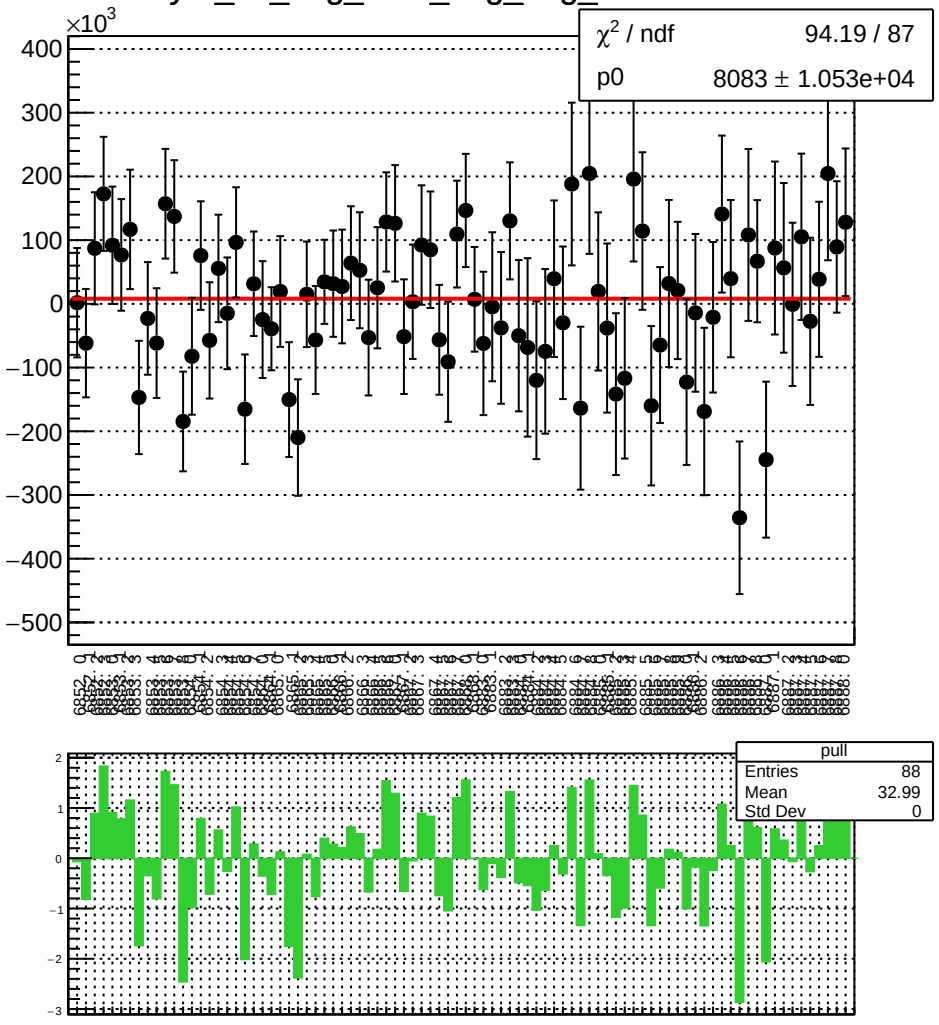

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 53.78 / 87
p0 −242.3 ± 2530
pull
Entries 88
Mean 118.9
Std Dev 0
pull1D
Entries 88
Mean 0.004205
Std Dev 0.7817

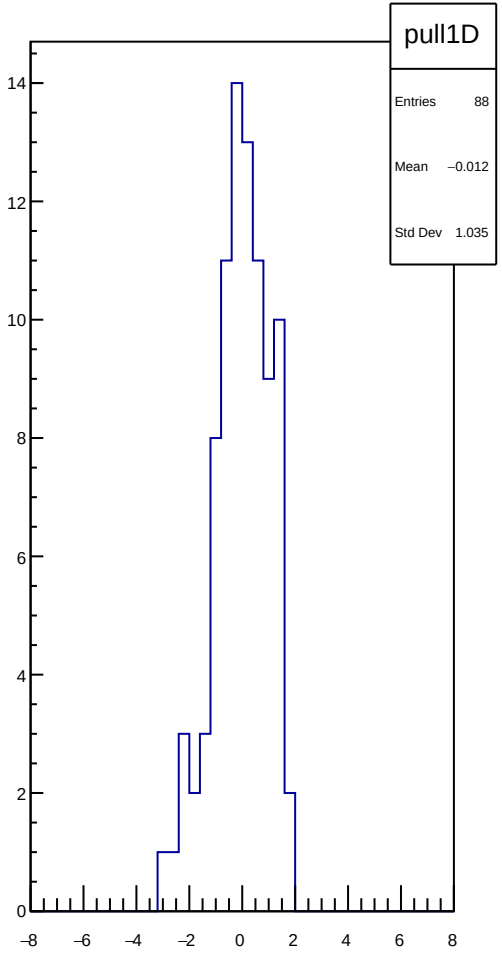

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 442.2 / 87
p0 2326 ± 1.789
2500
2450
2400
2350
2300
2250

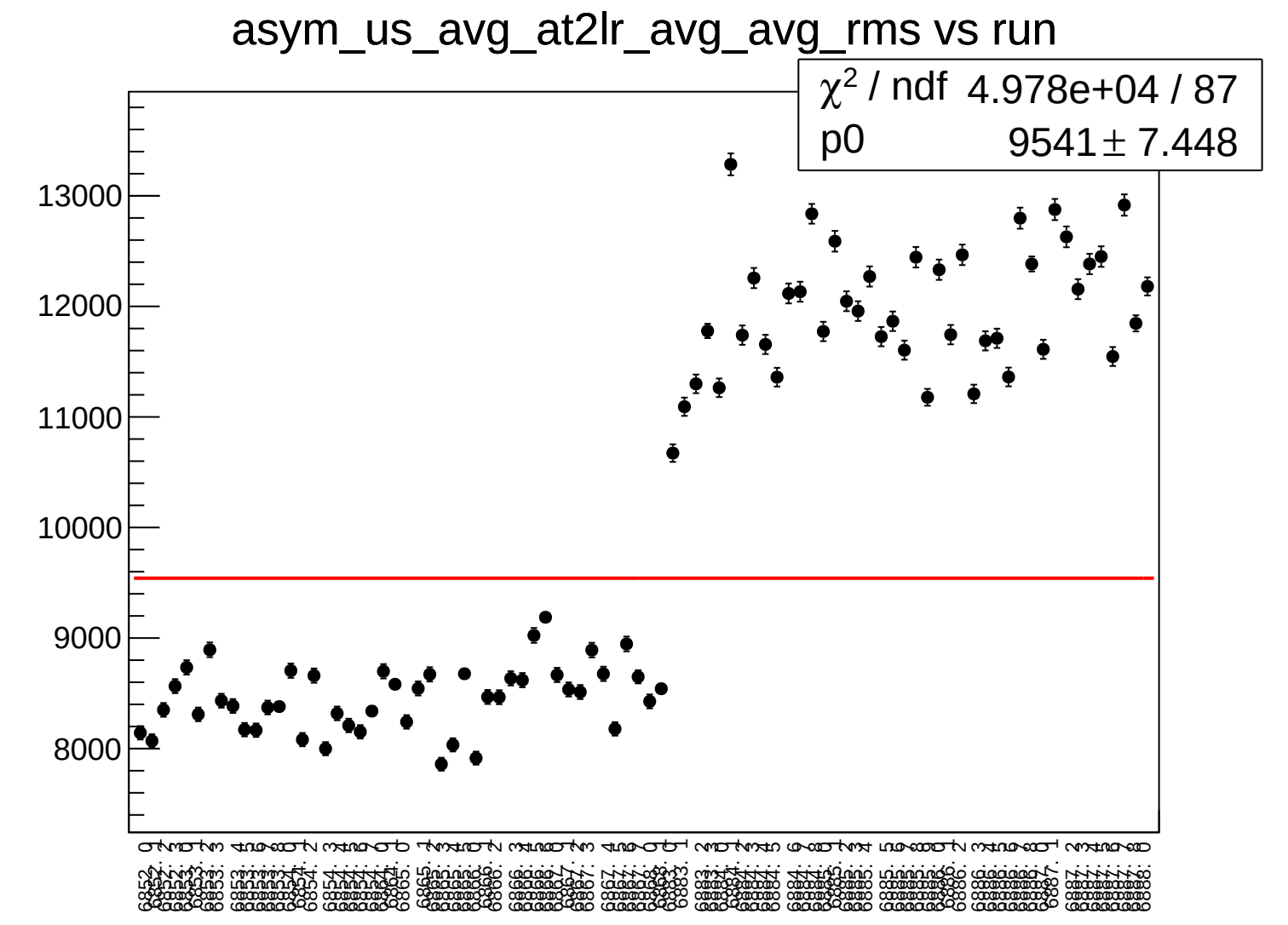

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.64 / 87
p0 −8289 ± 1.078e+04
pull
Entries 88
Mean 39.33
Std Dev 0

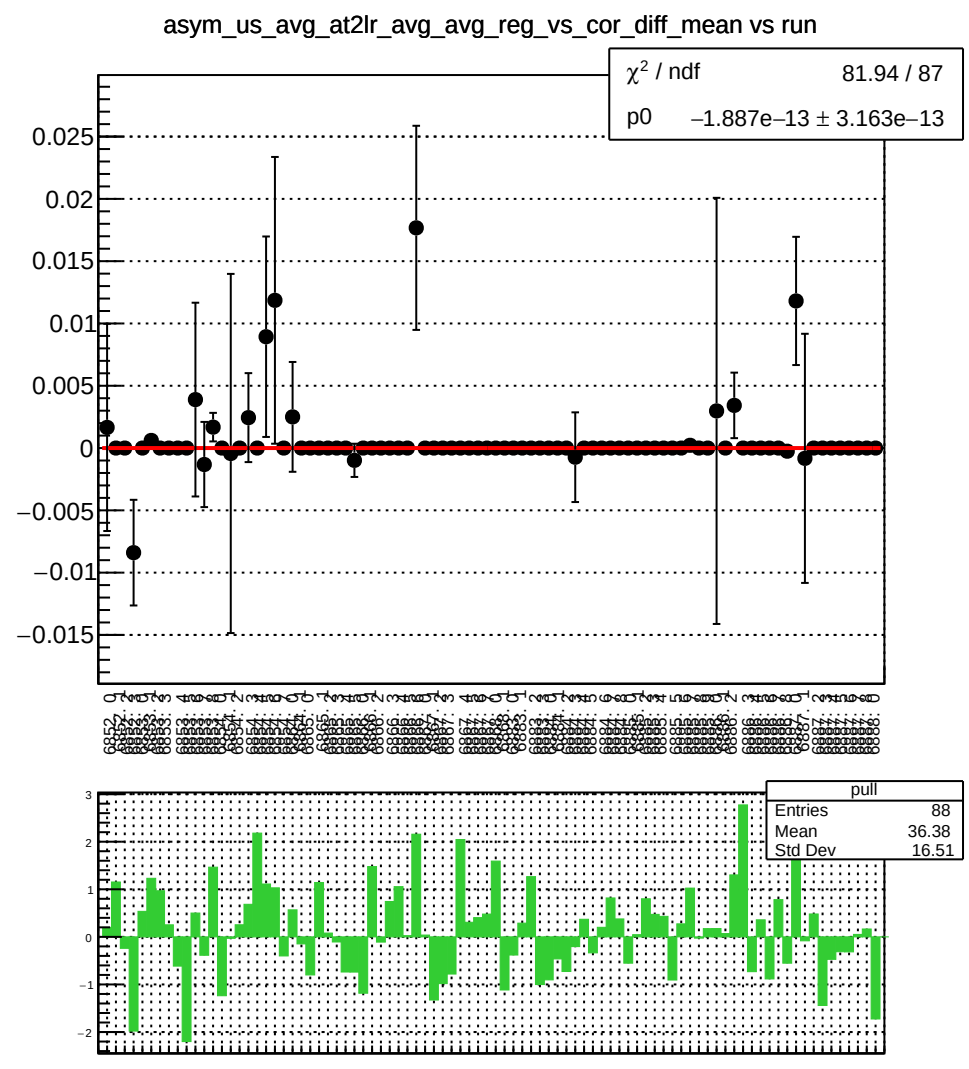

pull1D
Entries 88
Mean 0.01217
Std Dev 0.9806

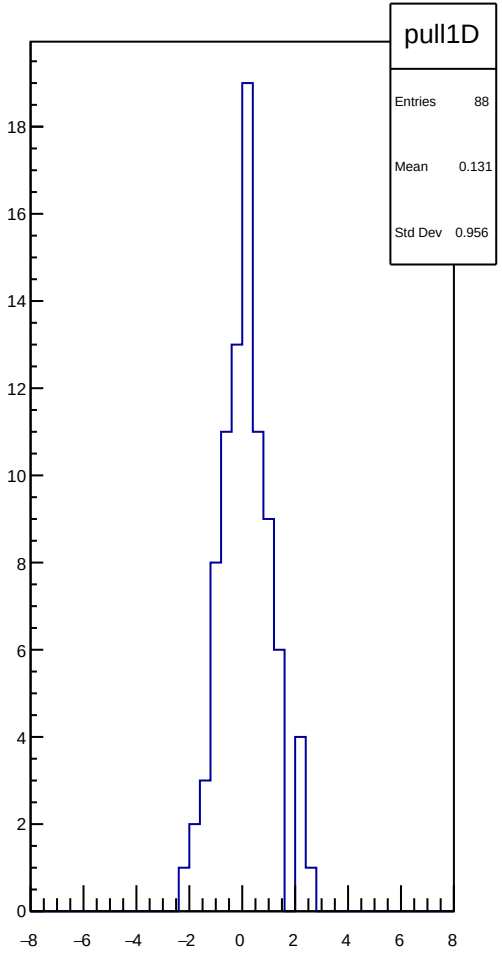

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.25e+04 / 87
p0 9757 ± 7.622
14000
13000
12000
11000
10000
9000
8000

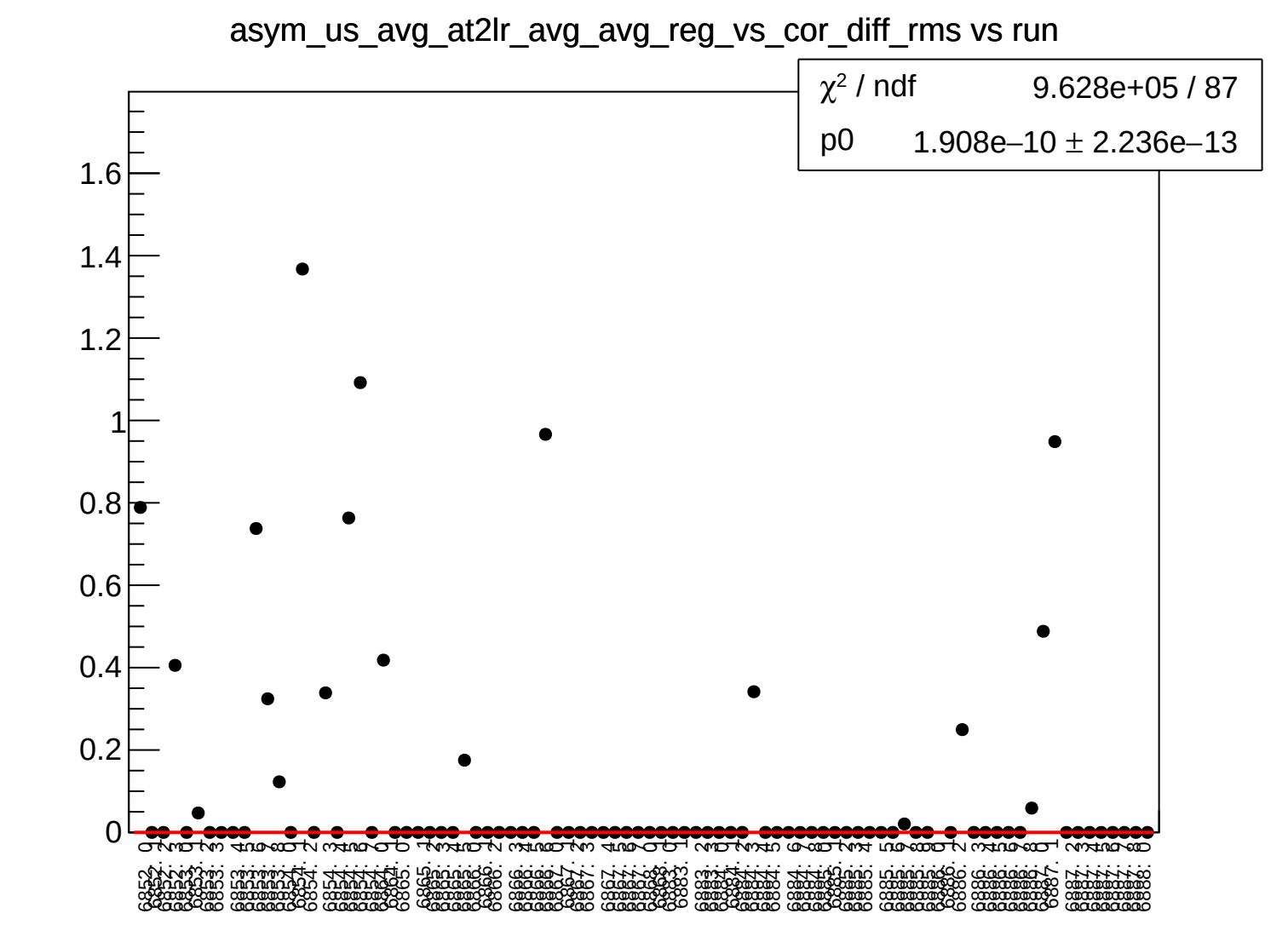

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 94.19 / 87
p0 8083 ± 1.053e+04
pull
Entries 88
Mean 32.99
Std Dev 0

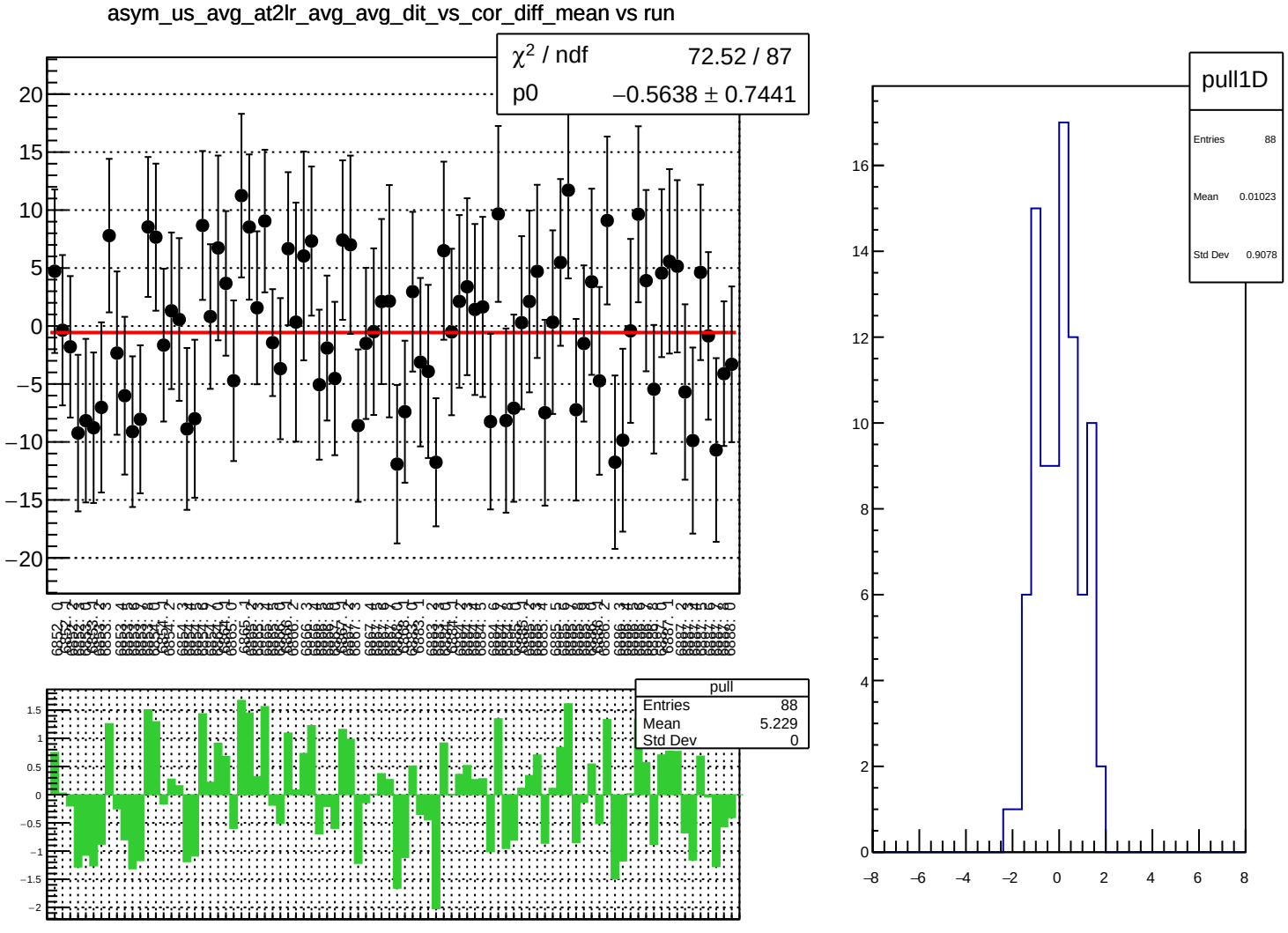

pull1D
Entries 88
Mean −0.012
Std Dev 1.035

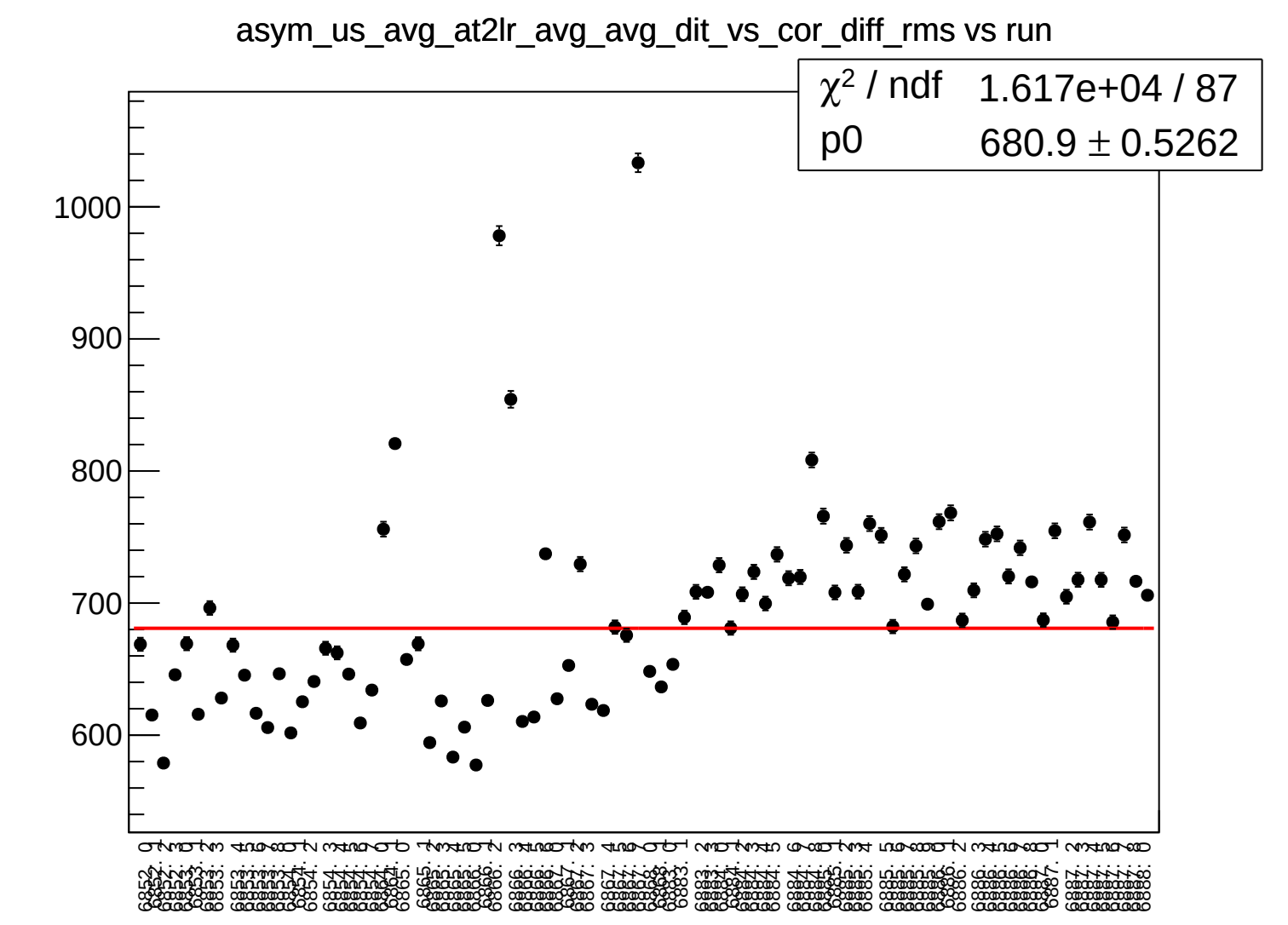

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 4.978e+04 / 87
p0 9541 ± 7.448
13000
12000
11000
10000
9000
8000

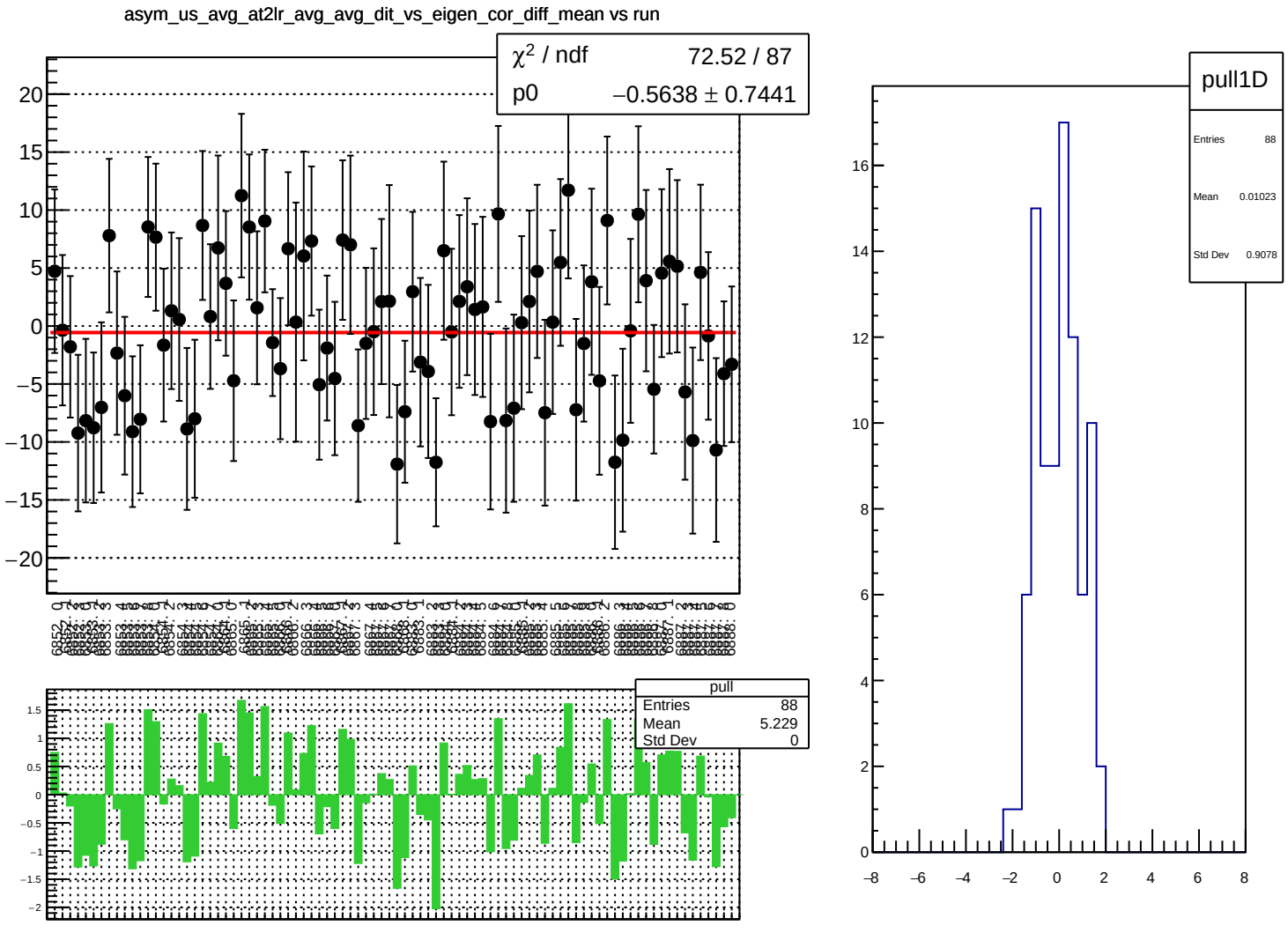

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.94 / 87
p0 −1.887e−13 ± 3.163e−13
pull
Entries 88
Mean 36.38
Std Dev 16.51

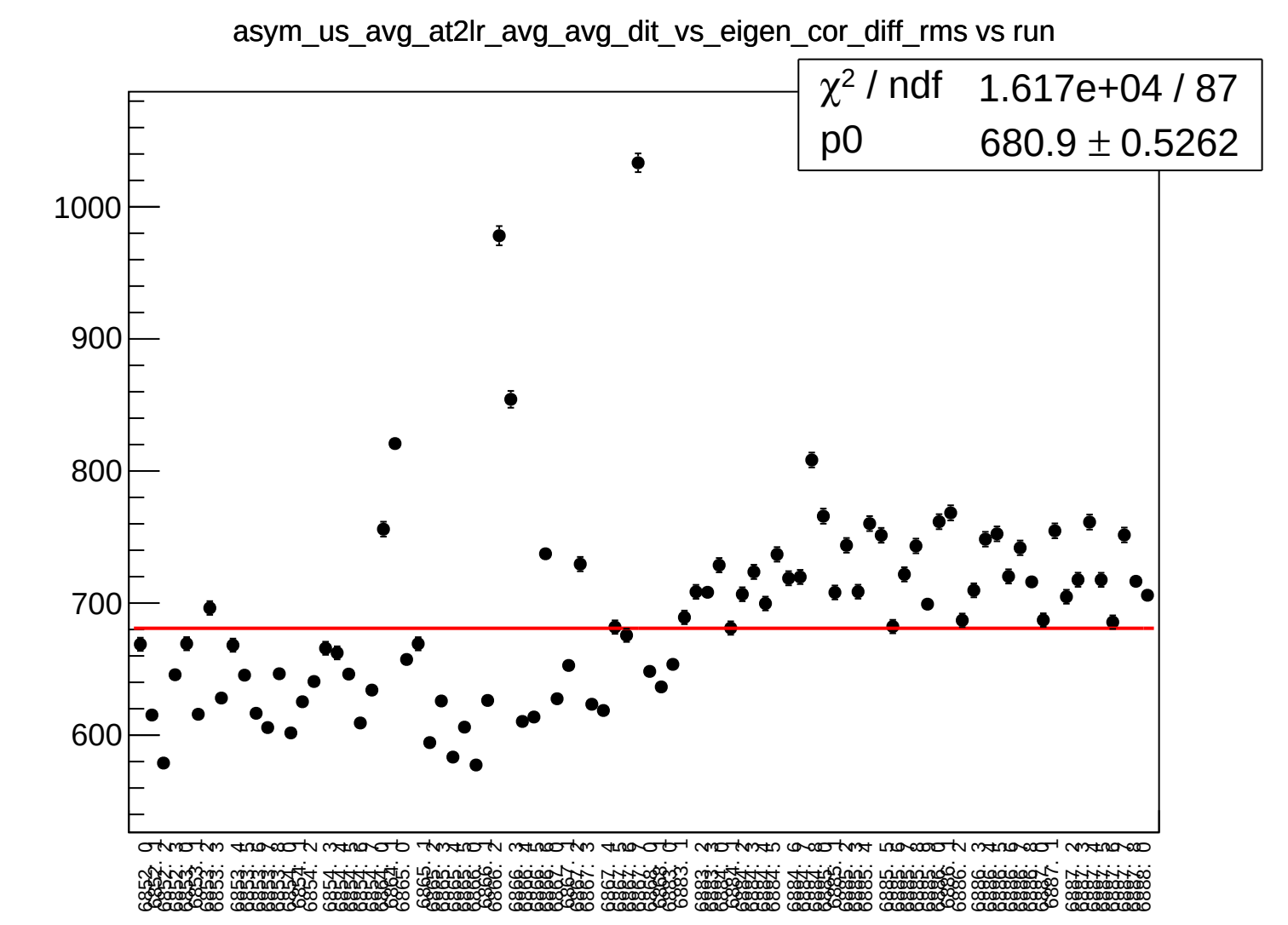

pull1D
Entries 88
Mean 0.131
Std Dev 0.956

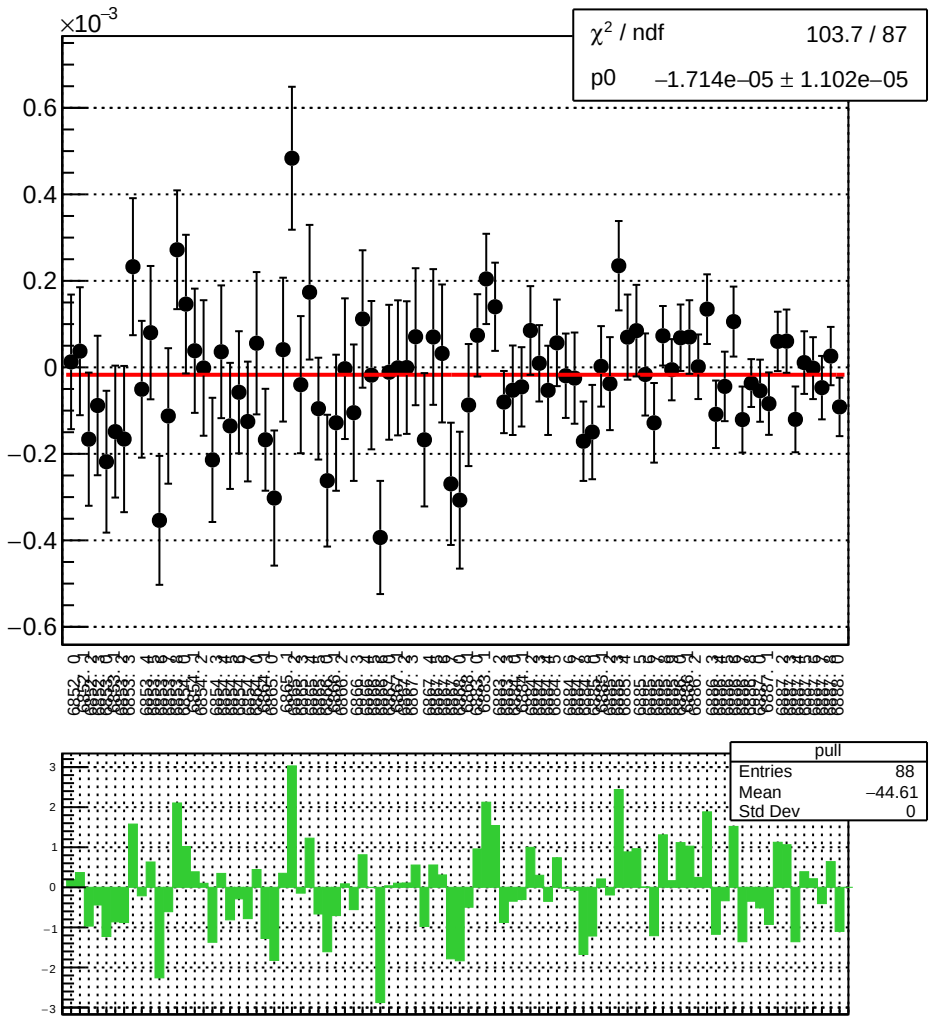

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.628e+05 / 87
p0 1.908e−10 ± 2.236e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

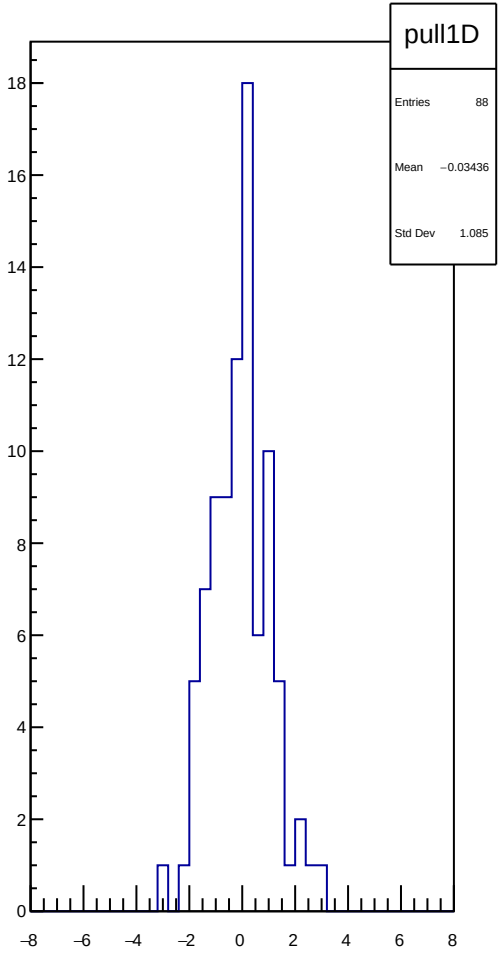

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.52 / 87
p0 −0.5638 ± 0.7441
pull
Entries 88
Mean 5.229
Std Dev 0
pull1D
Entries 88
Mean 0.01023
Std Dev 0.9078

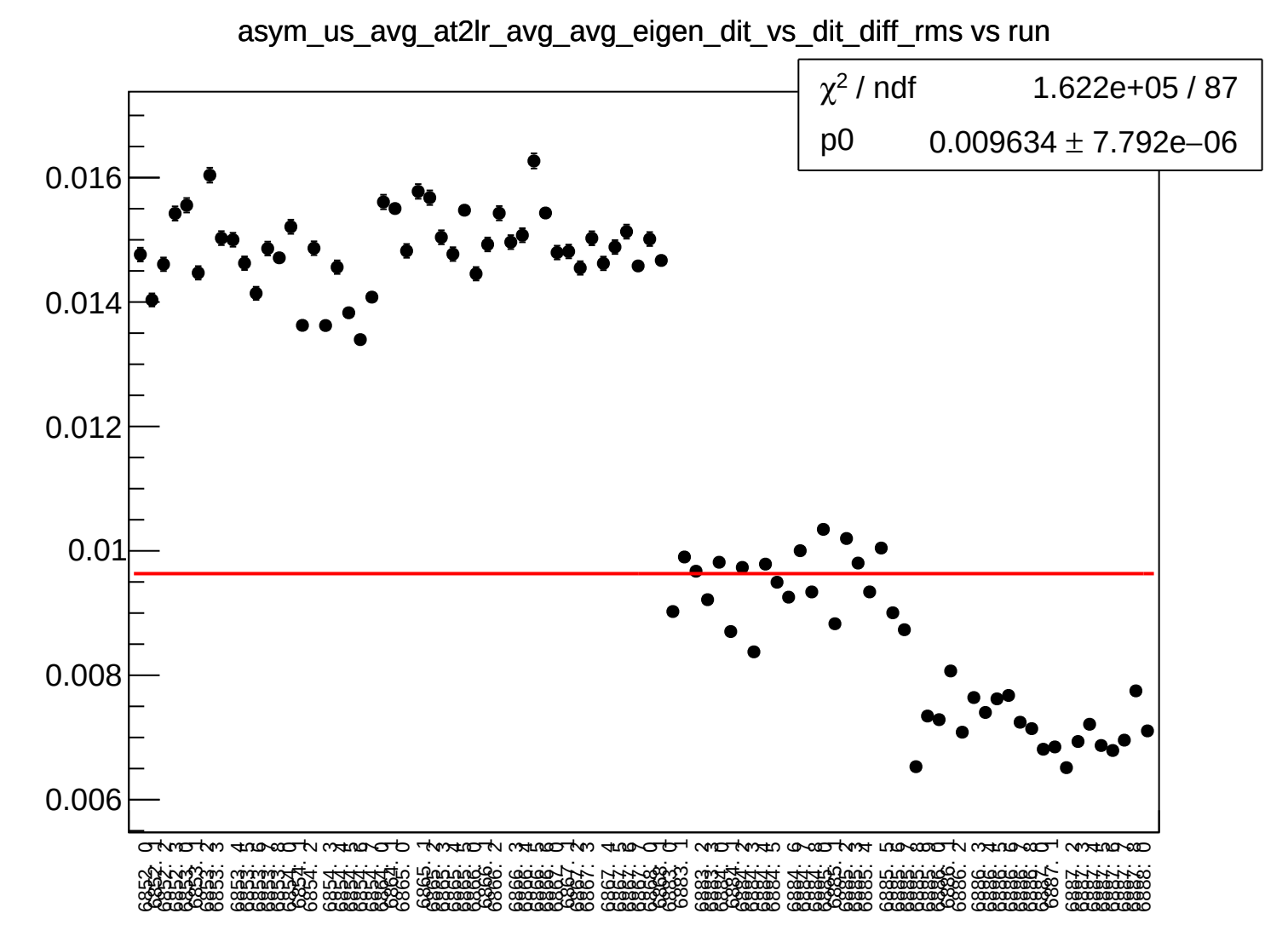

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.617e+04 / 87
p0 680.9 ± 0.5262
1000
900
800
700
600

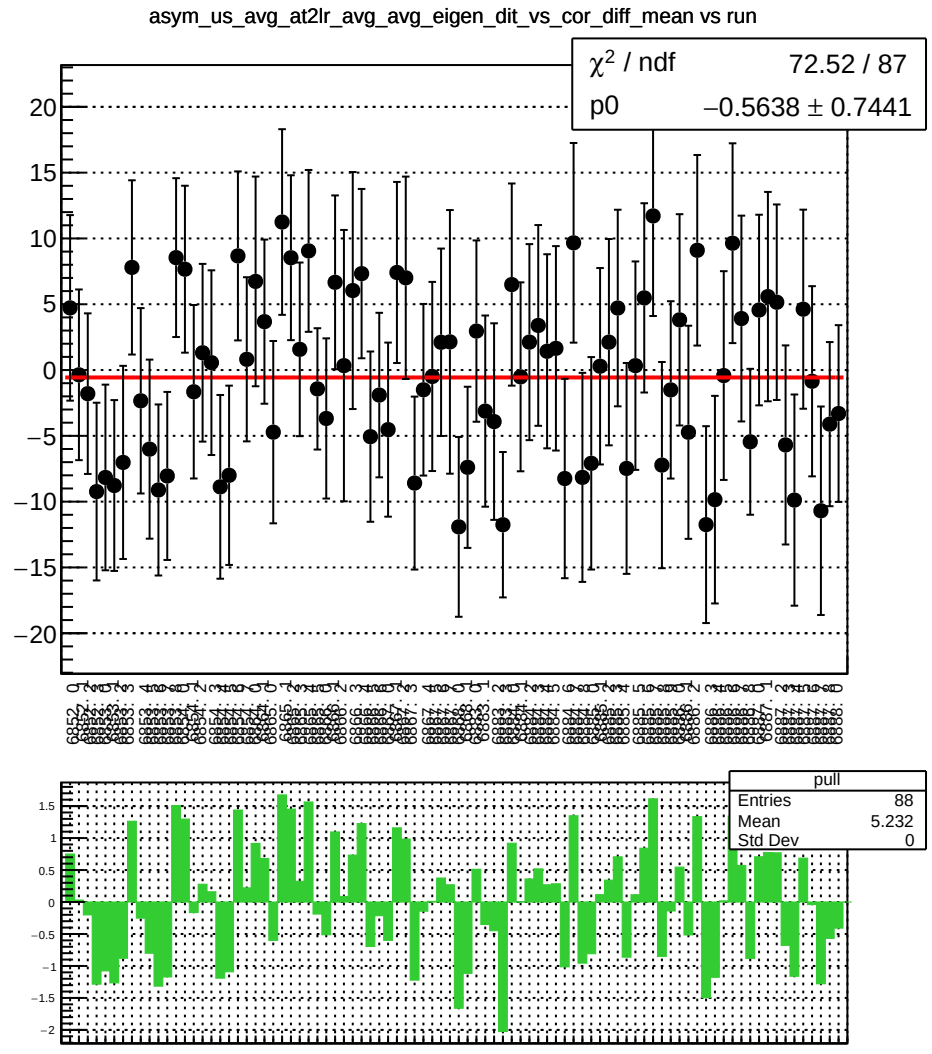

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.52 / 87
p0 −0.5638 ± 0.7441
pull
Entries 88
Mean 5.229
Std Dev 0
pull1D
Entries 88
Mean 0.01023
Std Dev 0.9078

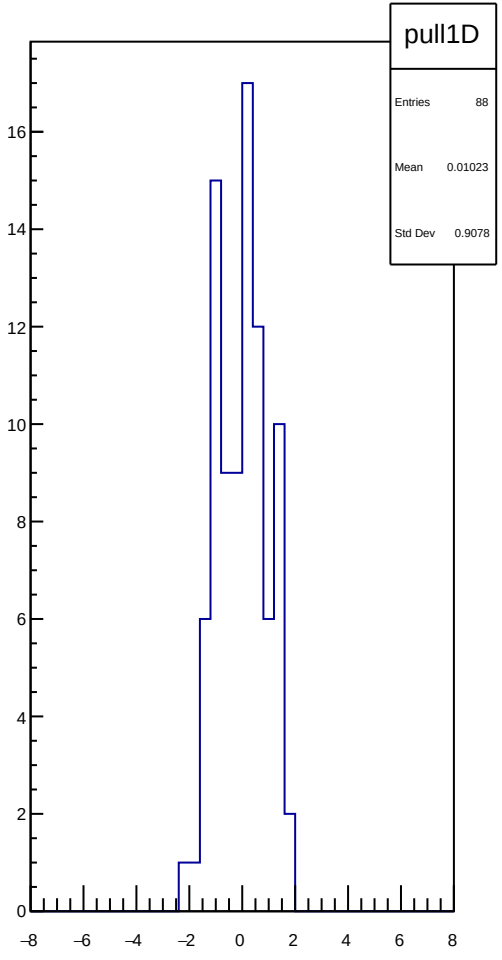

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.617e+04 / 87
p0 680.9 ± 0.5262
1000
900
800
700
600

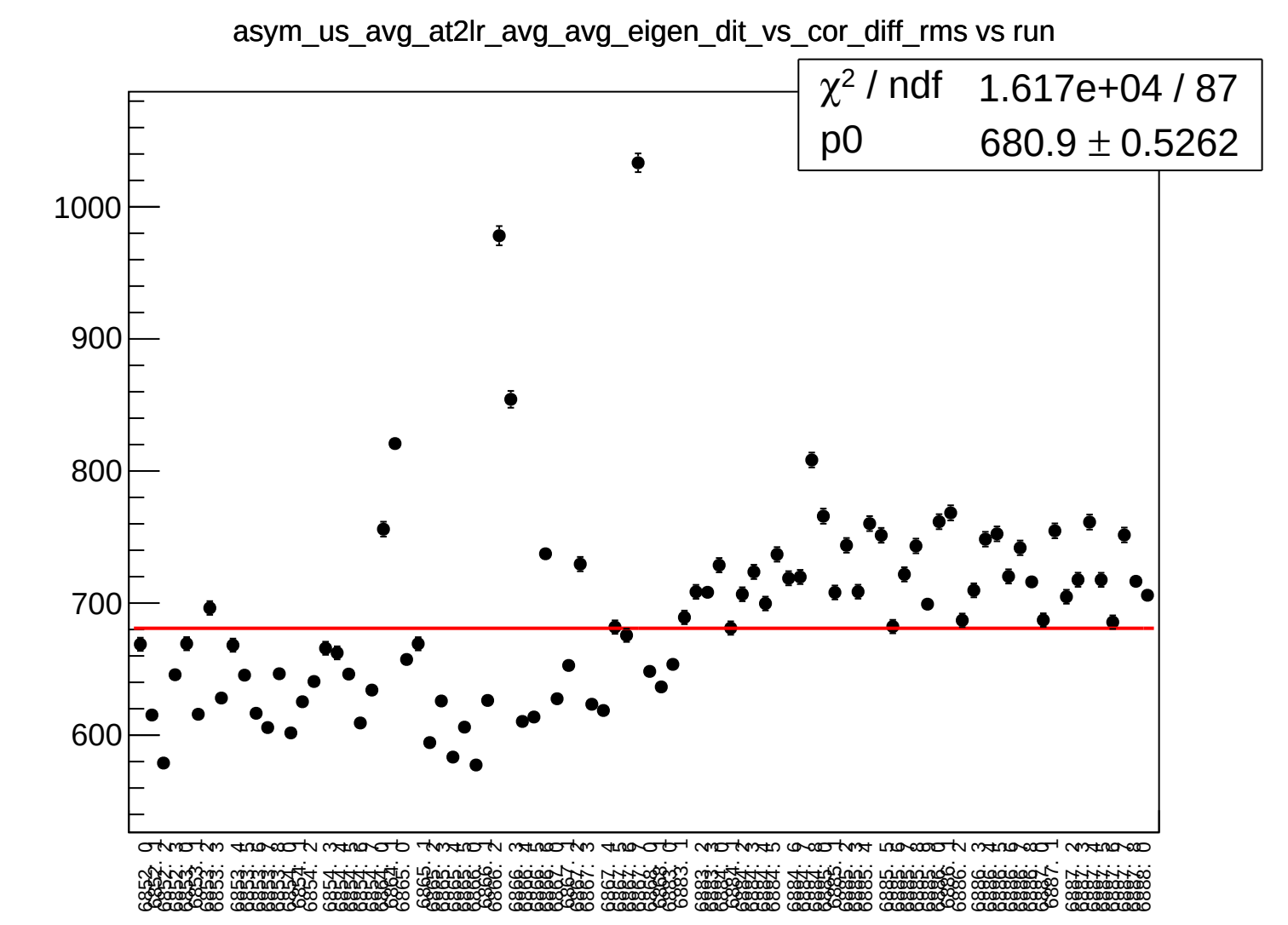

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 103.7 / 87
p0 −1.714e−05 ± 1.102e−05
pull
Entries 88
Mean −44.61
Std Dev 0

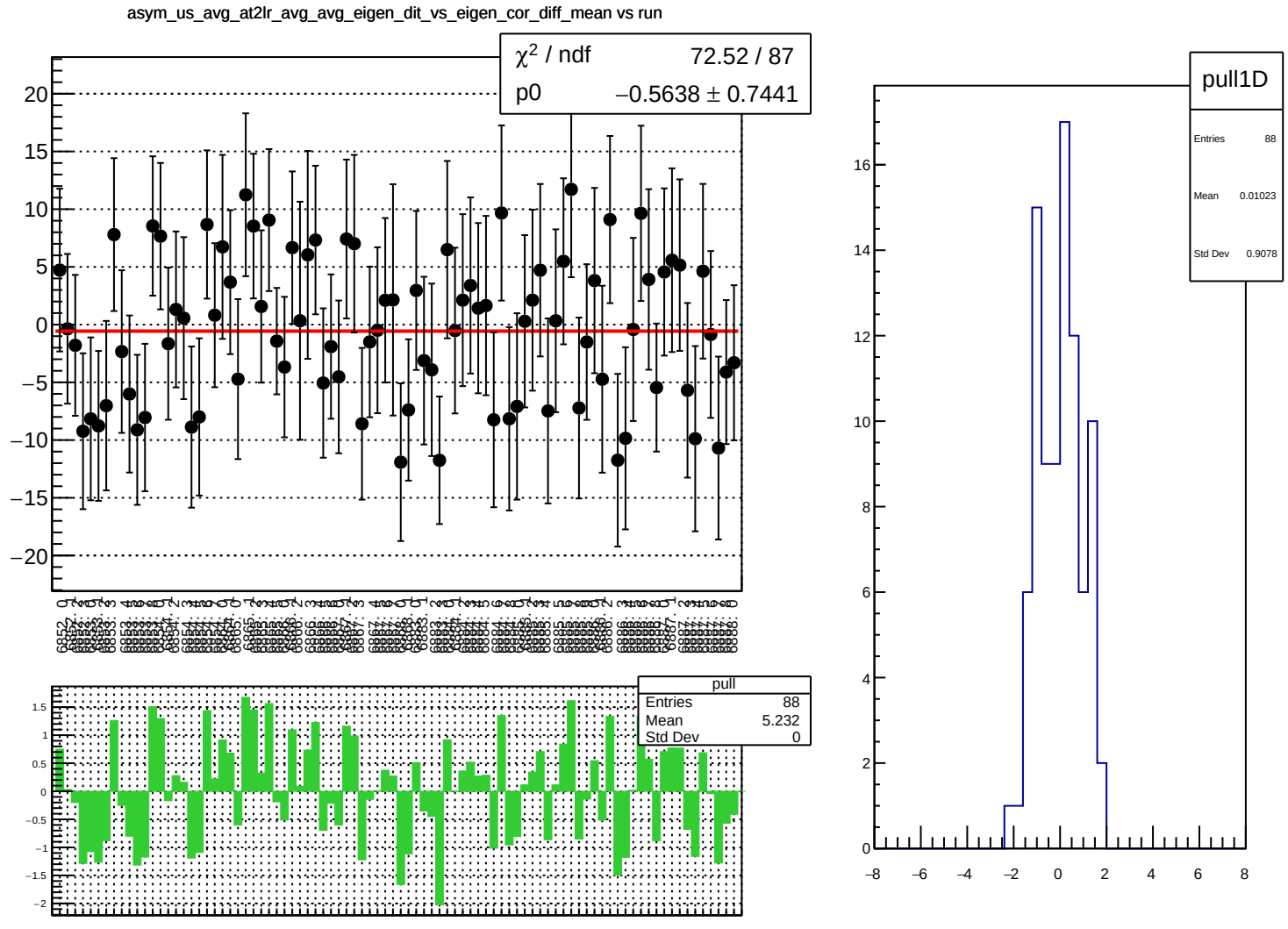

pull1D
Entries 88
Mean −0.03436
Std Dev 1.085

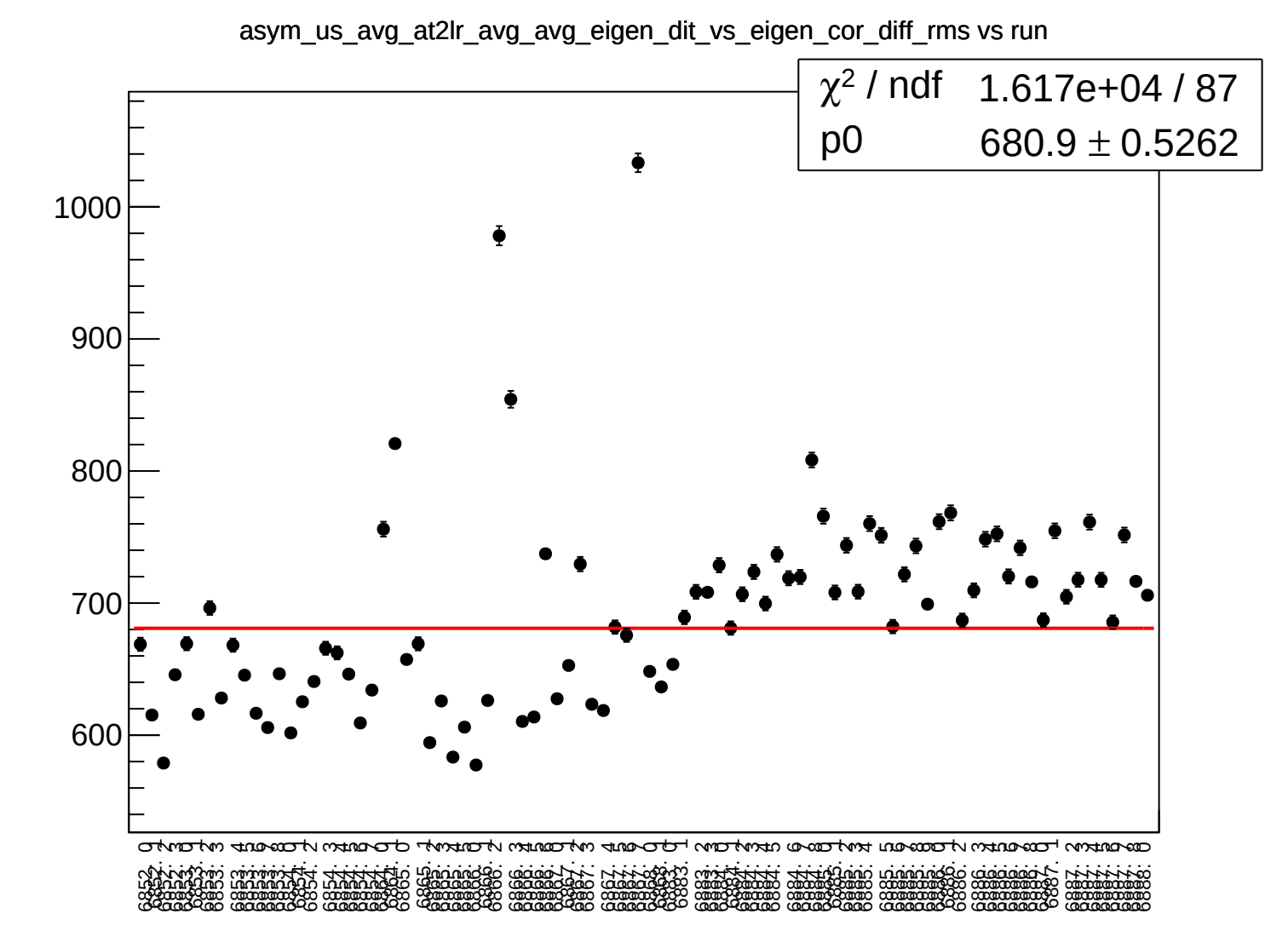

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.622e+05 / 87
p0 0.009634 ± 7.792e−06
0.016
0.014
0.012
0.01
0.008
0.006

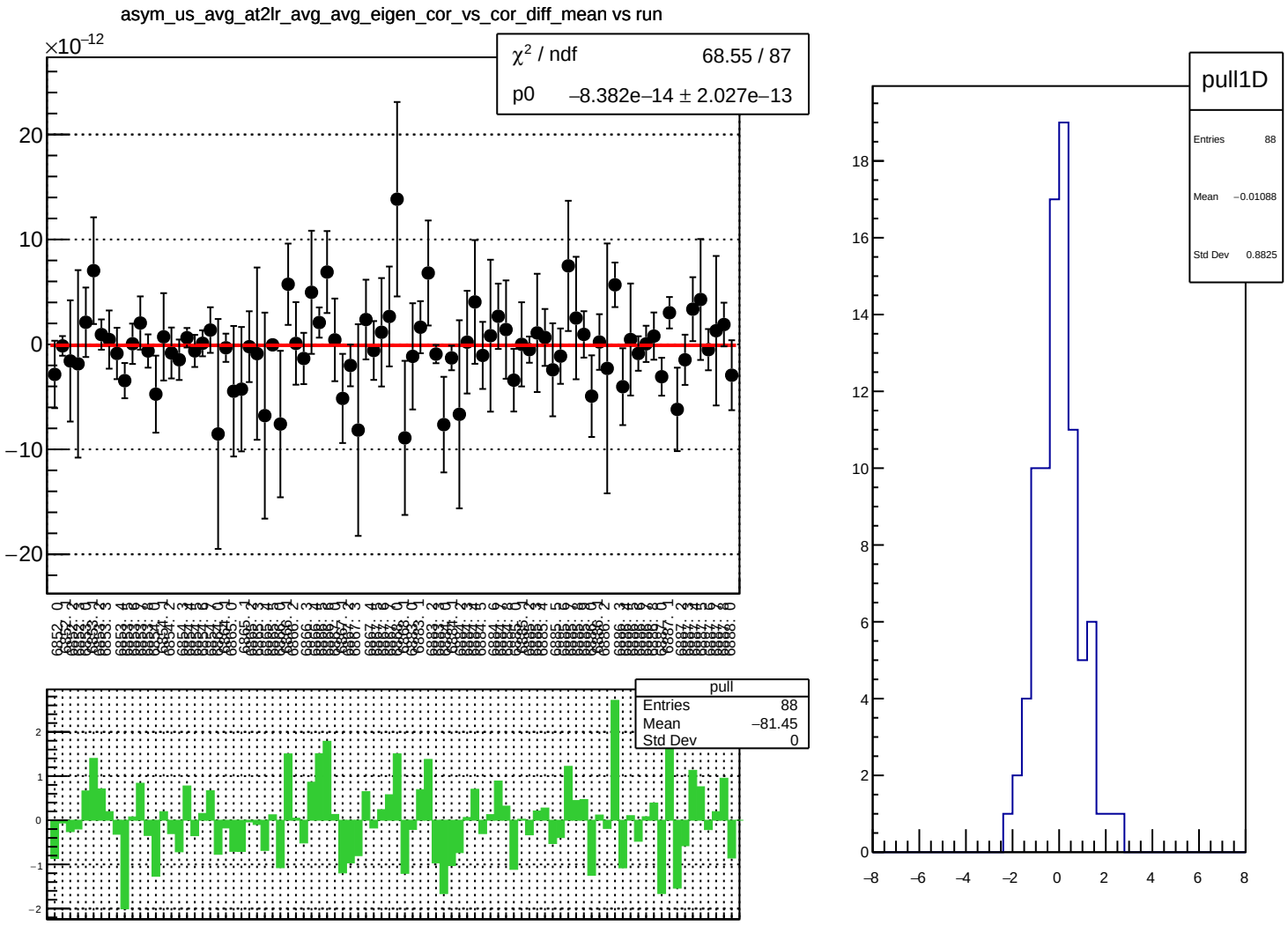

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.52 / 87
p0 −0.5638 ± 0.7441
pull
Entries 88
Mean 5.232
Std Dev 0

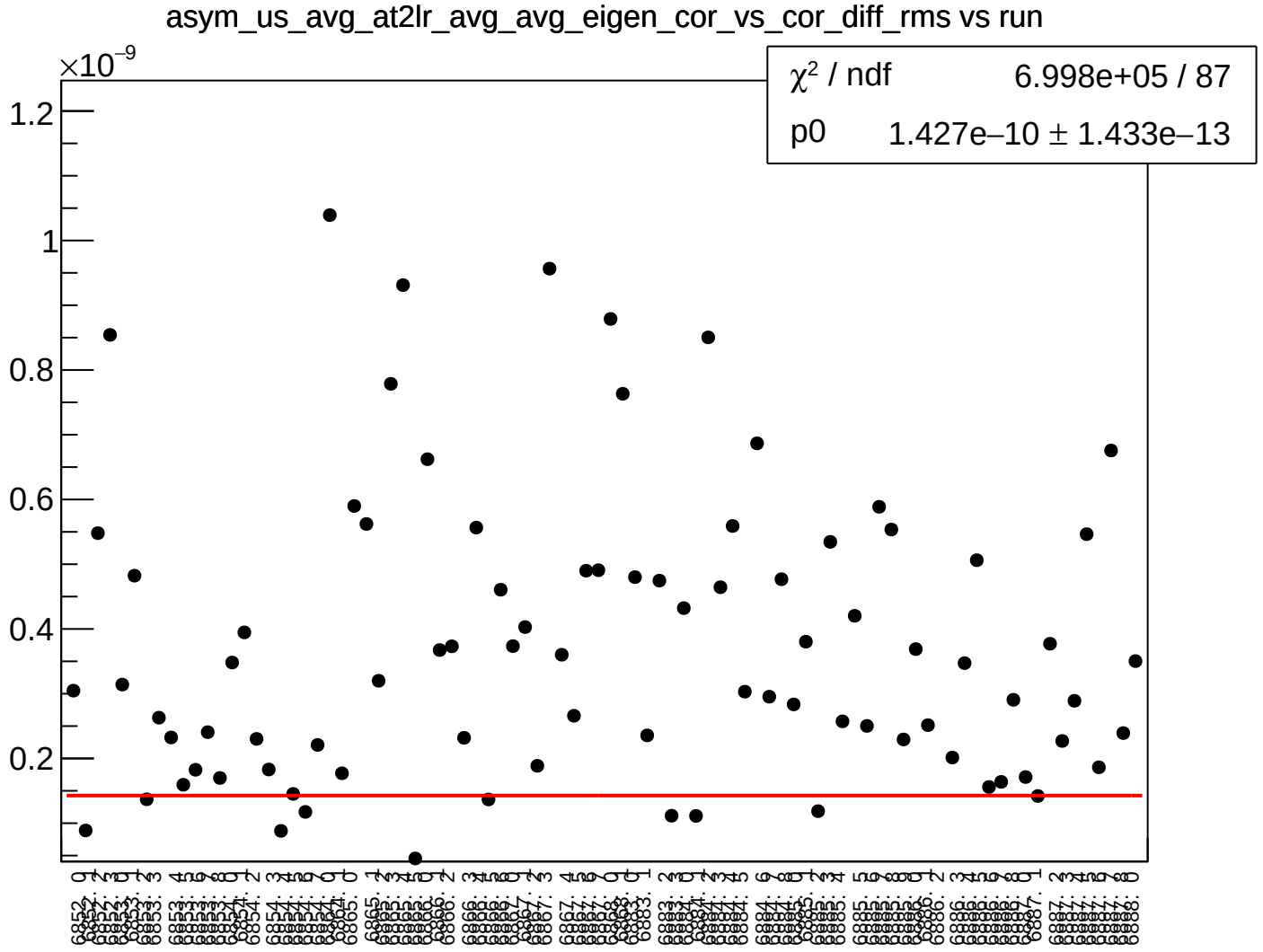

pull1D
Entries 88
Mean 0.01023
Std Dev 0.9078

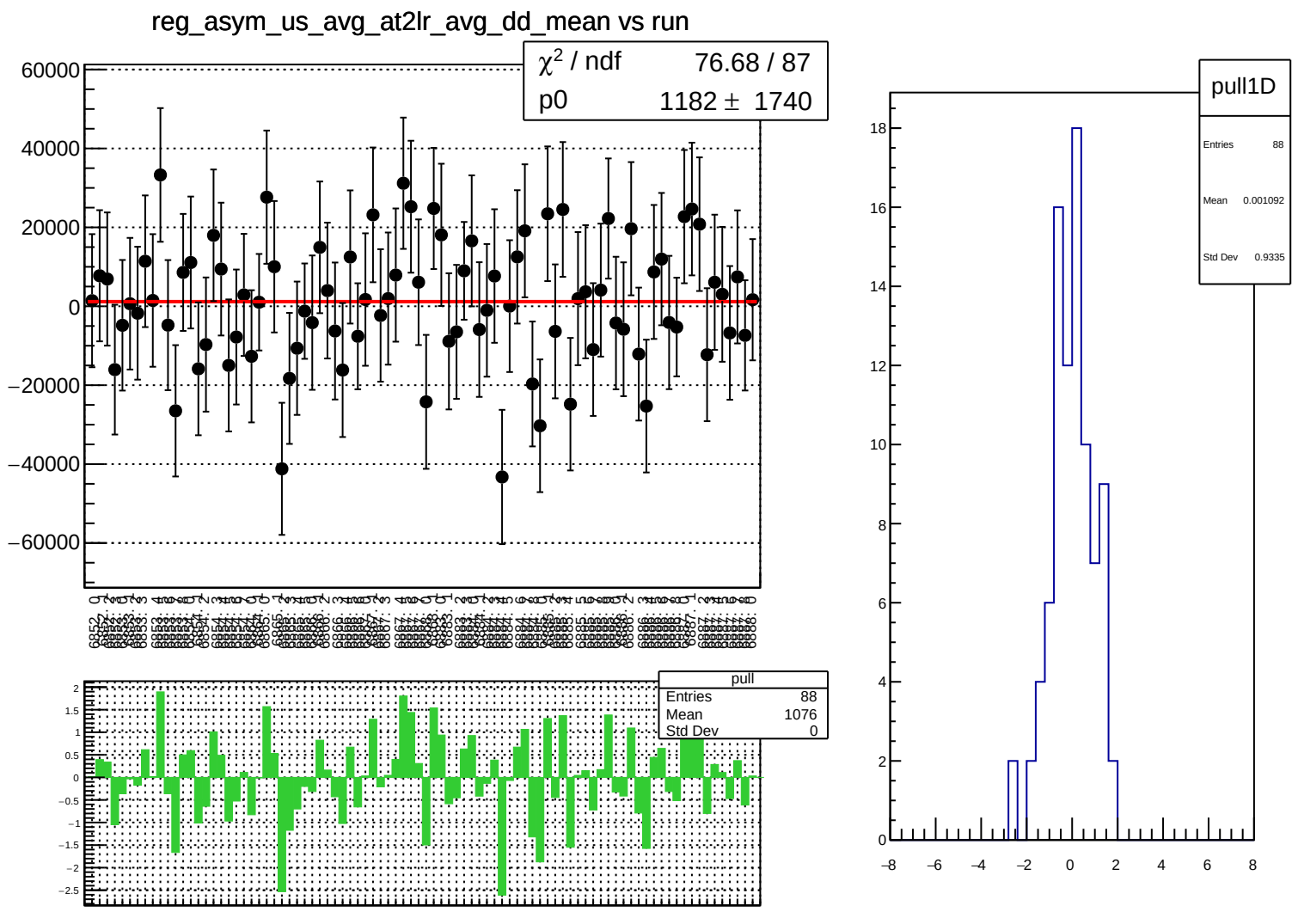

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.617e+04 / 87
p0 680.9 ± 0.5262
1000
900
800
700
600

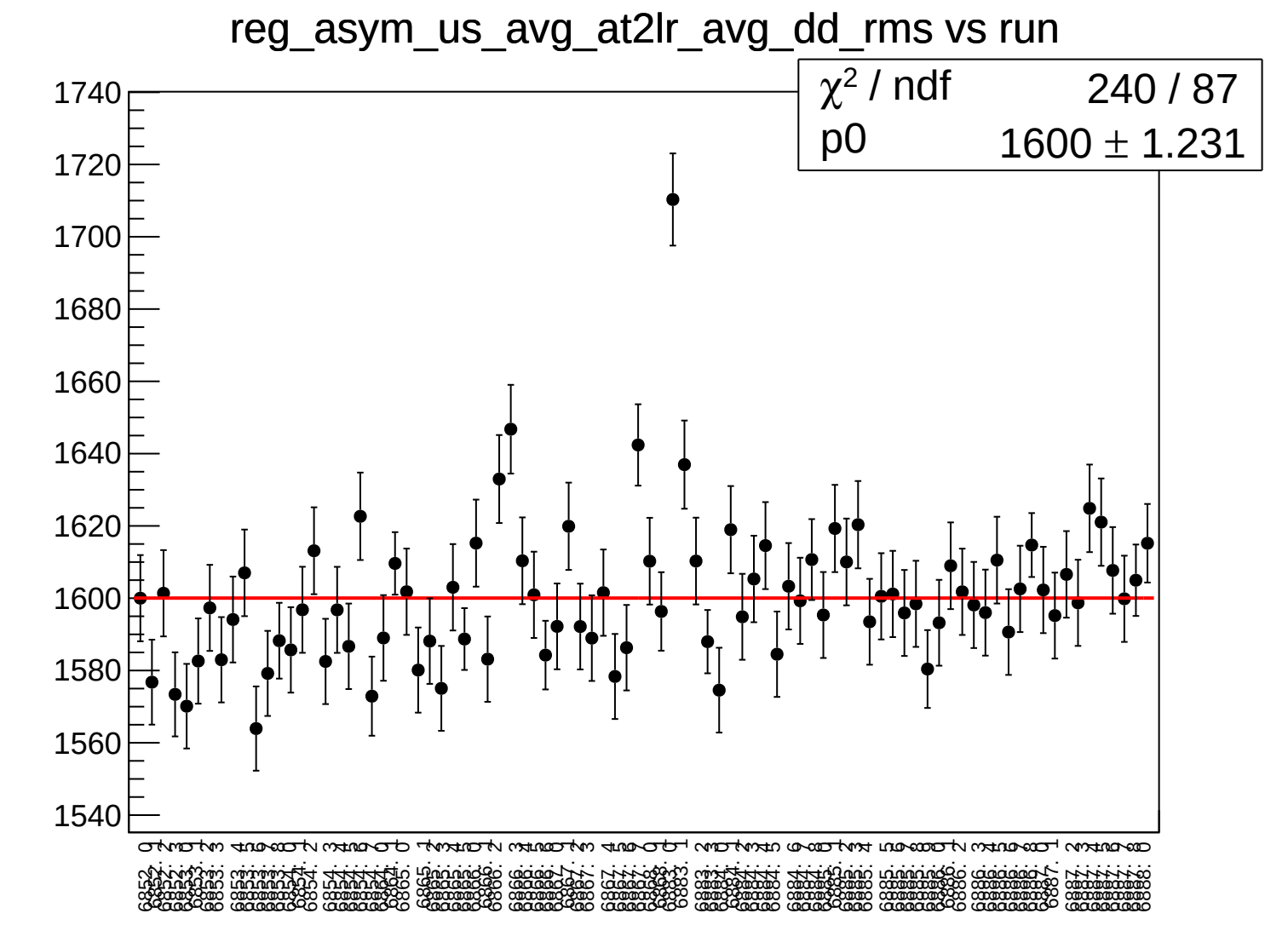

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.52 / 87
p0 −0.5638 ± 0.7441
pull
Entries 88
Mean 5.232
Std Dev 0
pull1D
Entries 88
Mean 0.01023
Std Dev 0.9078

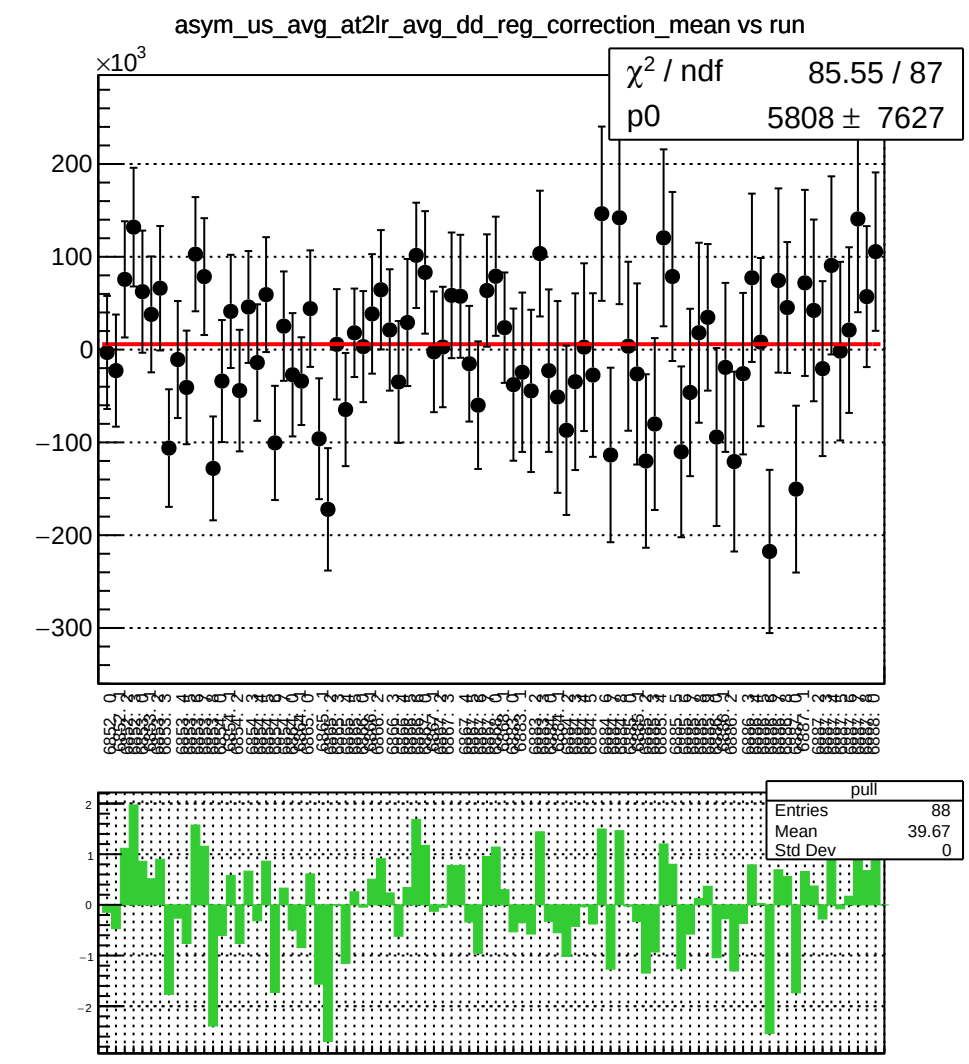

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.617e+04 / 87
p0 680.9 ± 0.5262
1000
900
800
700
600

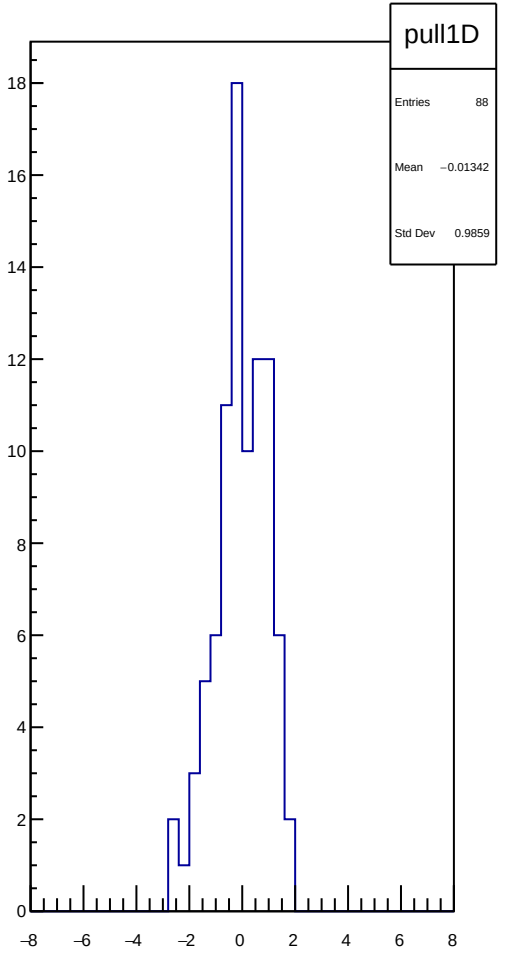

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.55 / 87
p0 −8.382e−14 ± 2.027e−13
20
10
0
−10
−20
pull
Entries 88
Mean −81.45
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01088
Std Dev 0.8825
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

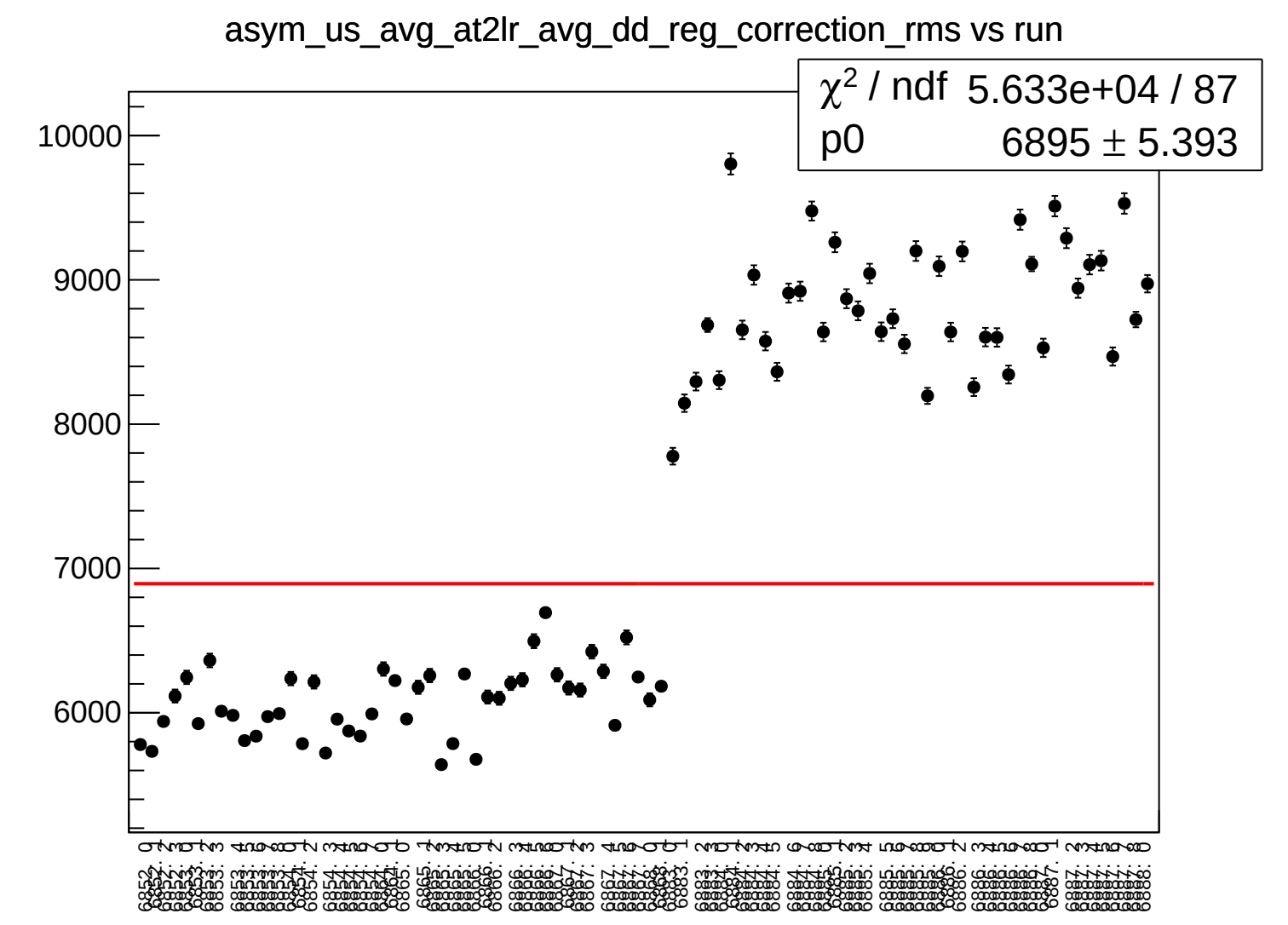

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.998e+05 / 87
p0 1.427e−10 ± 1.433e−13
1.2
1
0.8
0.6
0.4
0.2

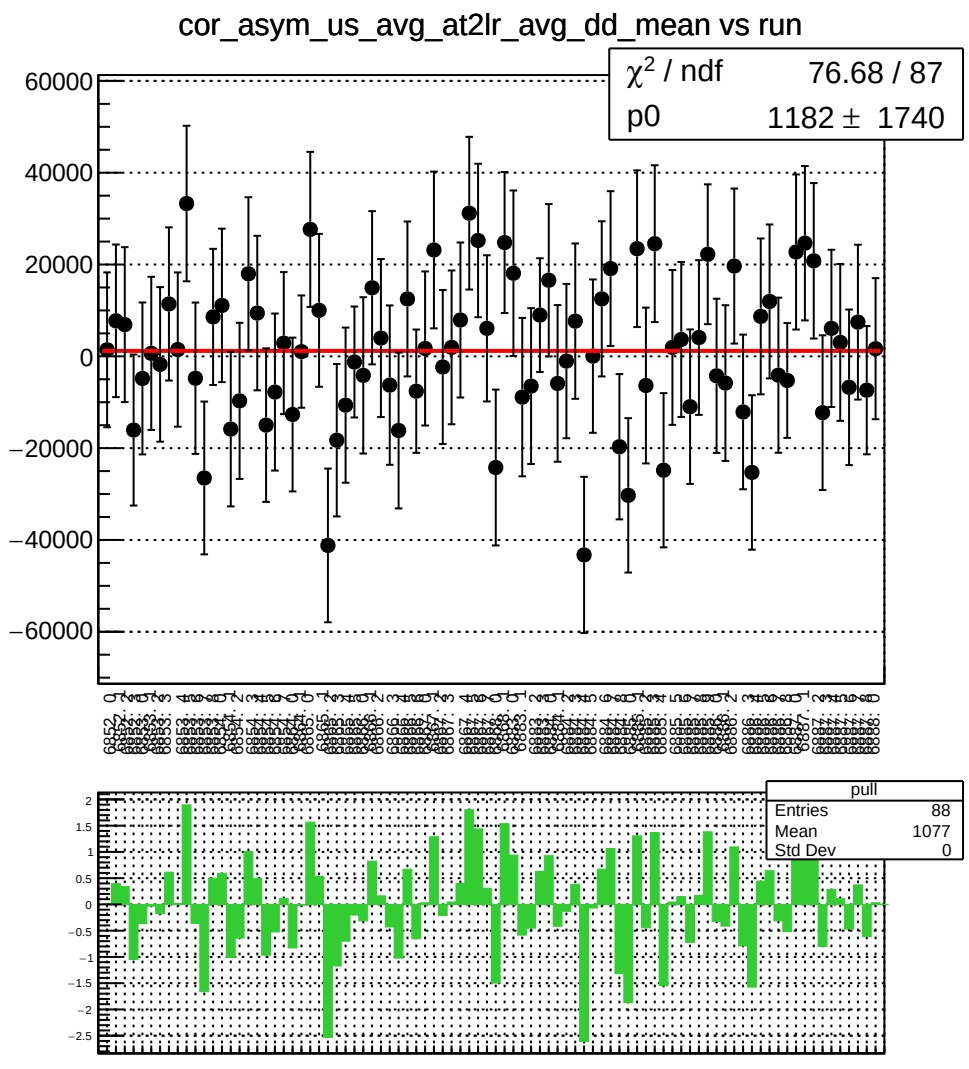

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 76.68 / 87
p0 1182 ± 1740
pull
Entries 88
Mean 1076
Std Dev 0
pull1D
Entries 88
Mean 0.001092
Std Dev 0.9335

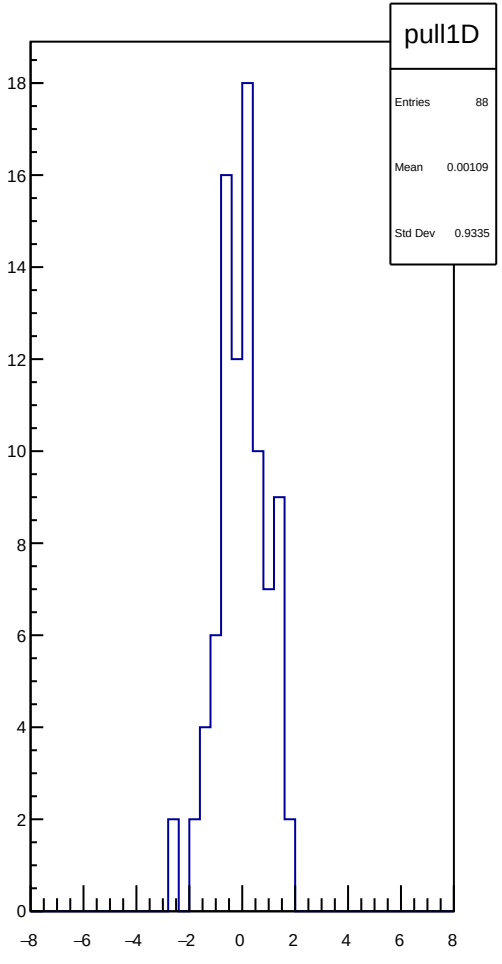

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 240 / 87
p0 1600 ± 1.231
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

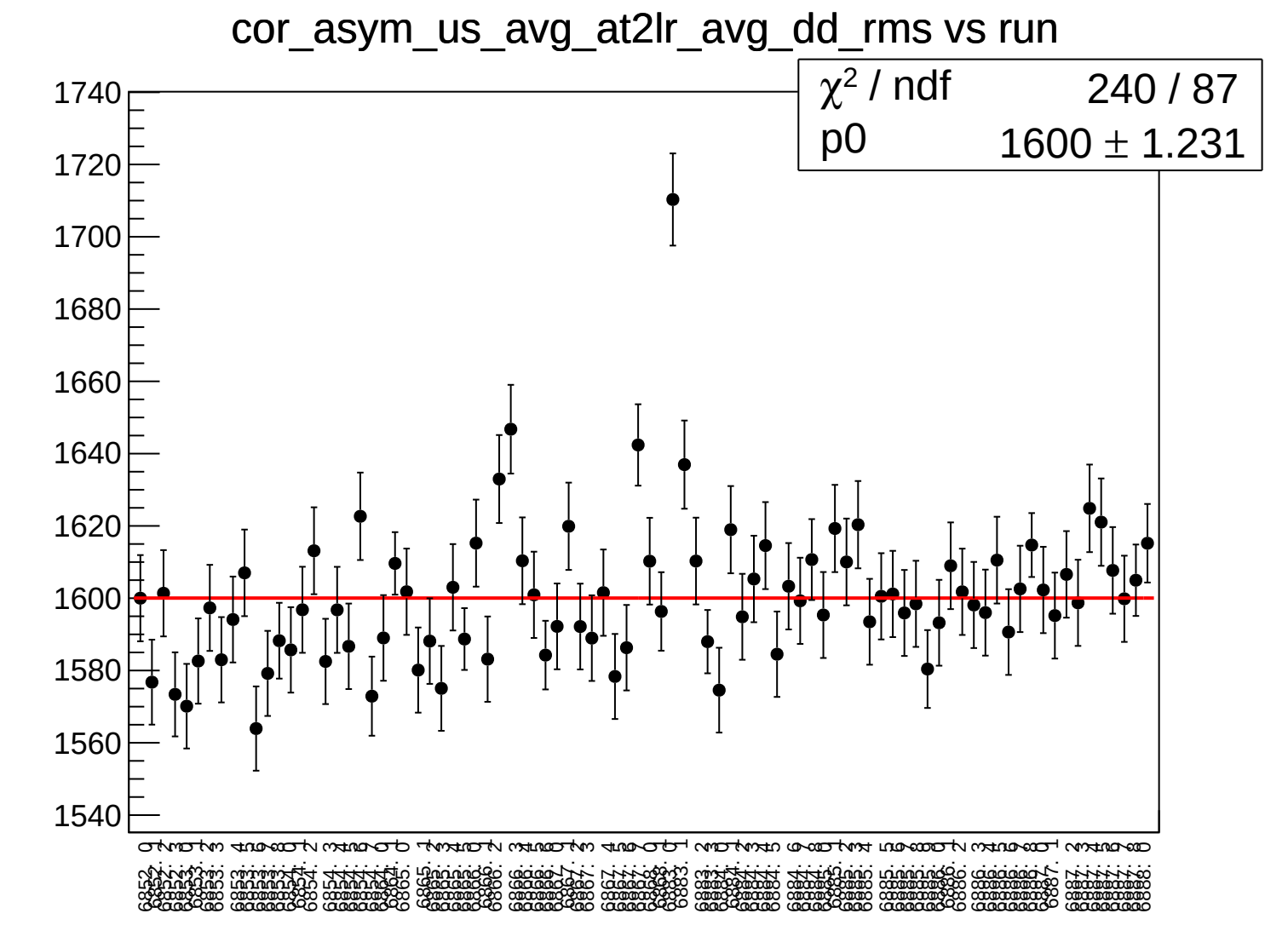

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 85.55 / 87
p0 5808 ± 7627
200
100
0
−100
−200
−300
pull
Entries 88
Mean 39.67
Std Dev 0
2
1
0
−1
−2

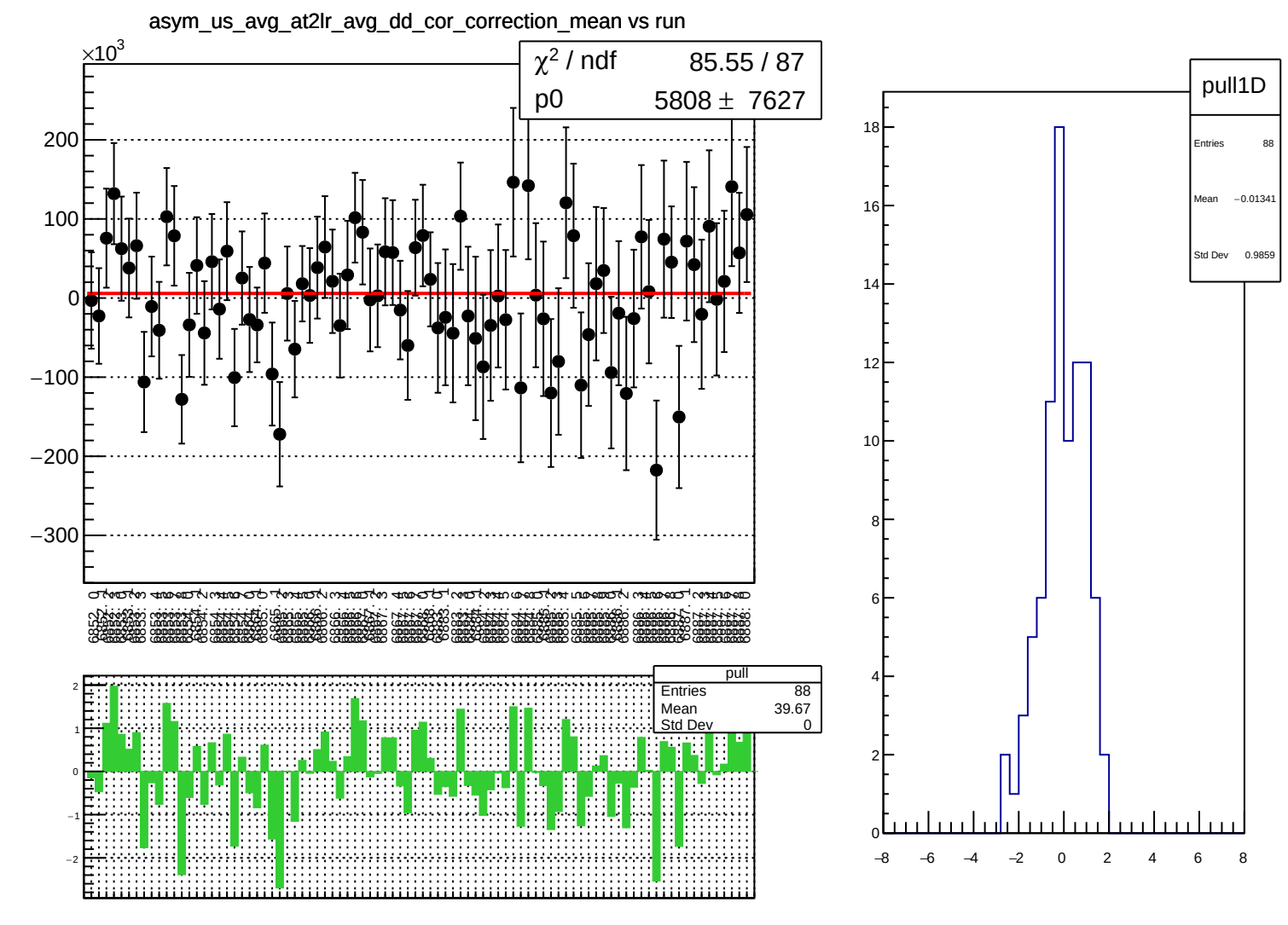

pull1D
Entries 88
Mean −0.01342
Std Dev 0.9859
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

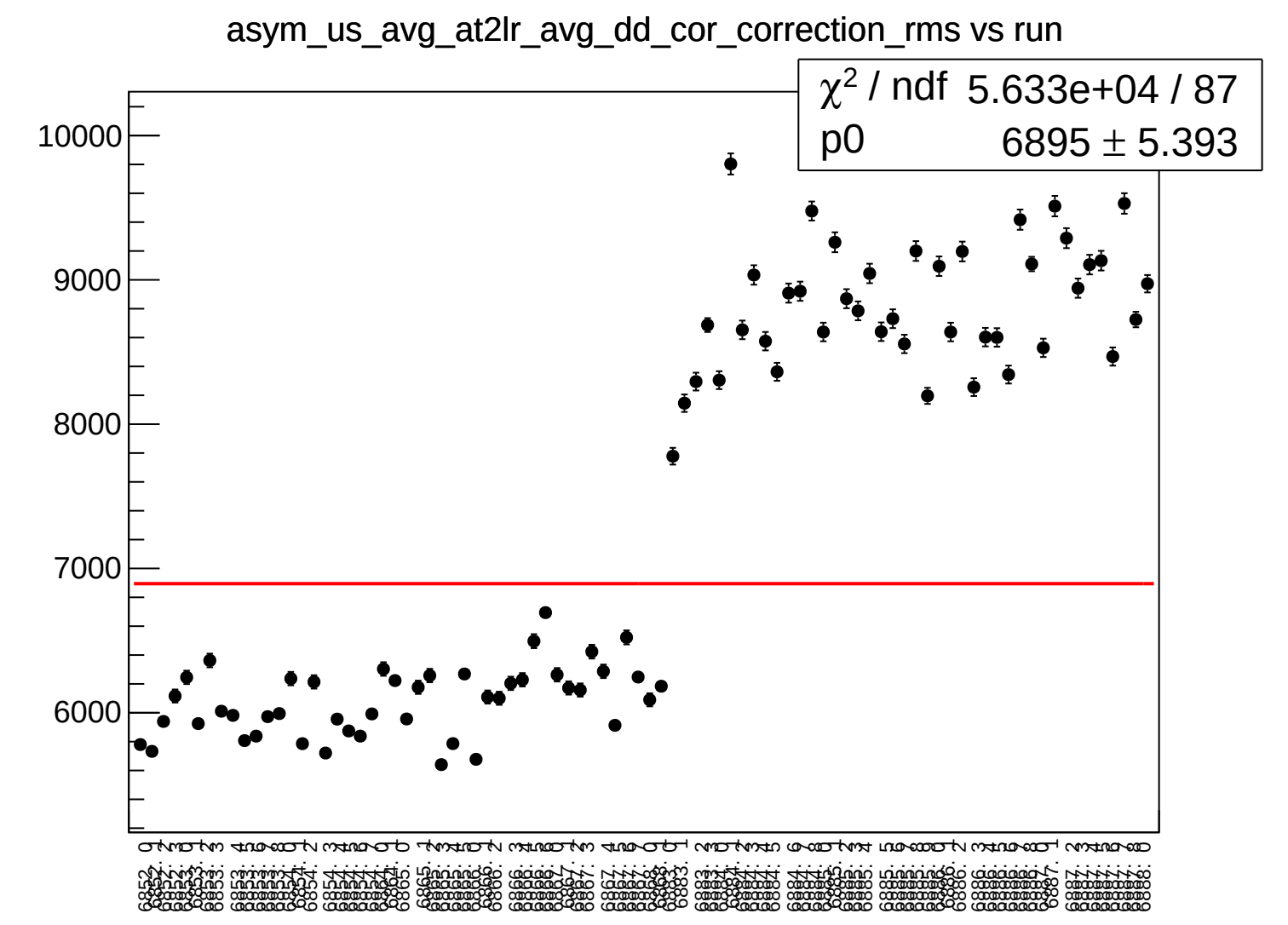

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 5.633e+04 / 87
p0 6895 ± 5.393
10000
9000
8000
7000
6000

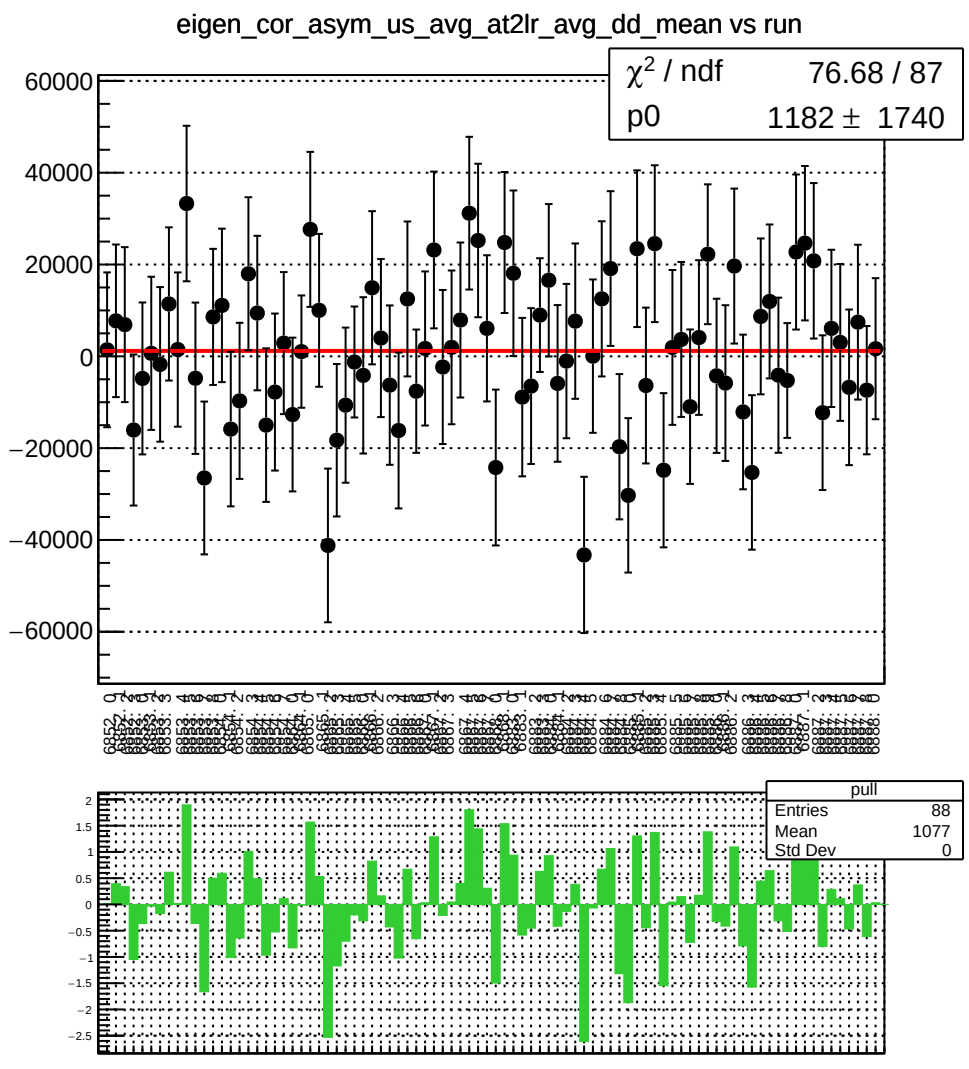

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 76.68 / 87
p0 1182 ± 1740
pull
Entries 88
Mean 1077
Std Dev 0

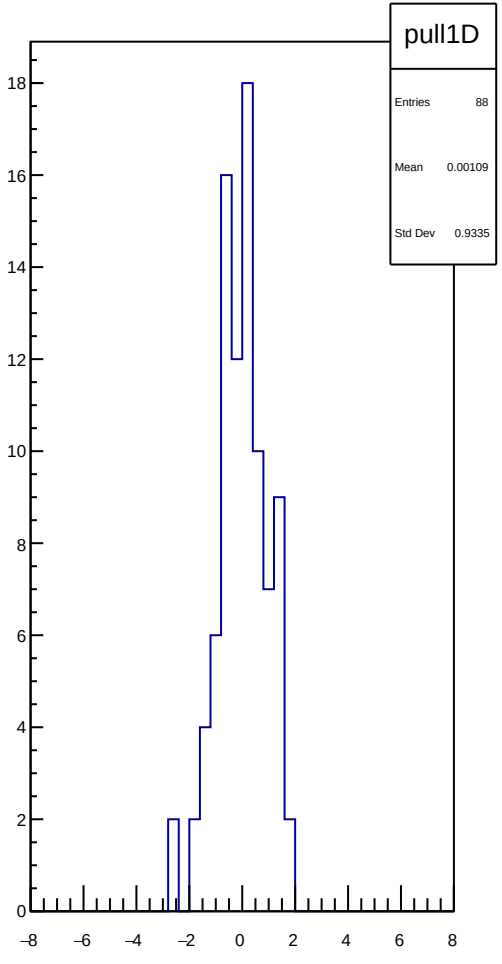

pull1D
Entries 88
Mean 0.00109
Std Dev 0.9335

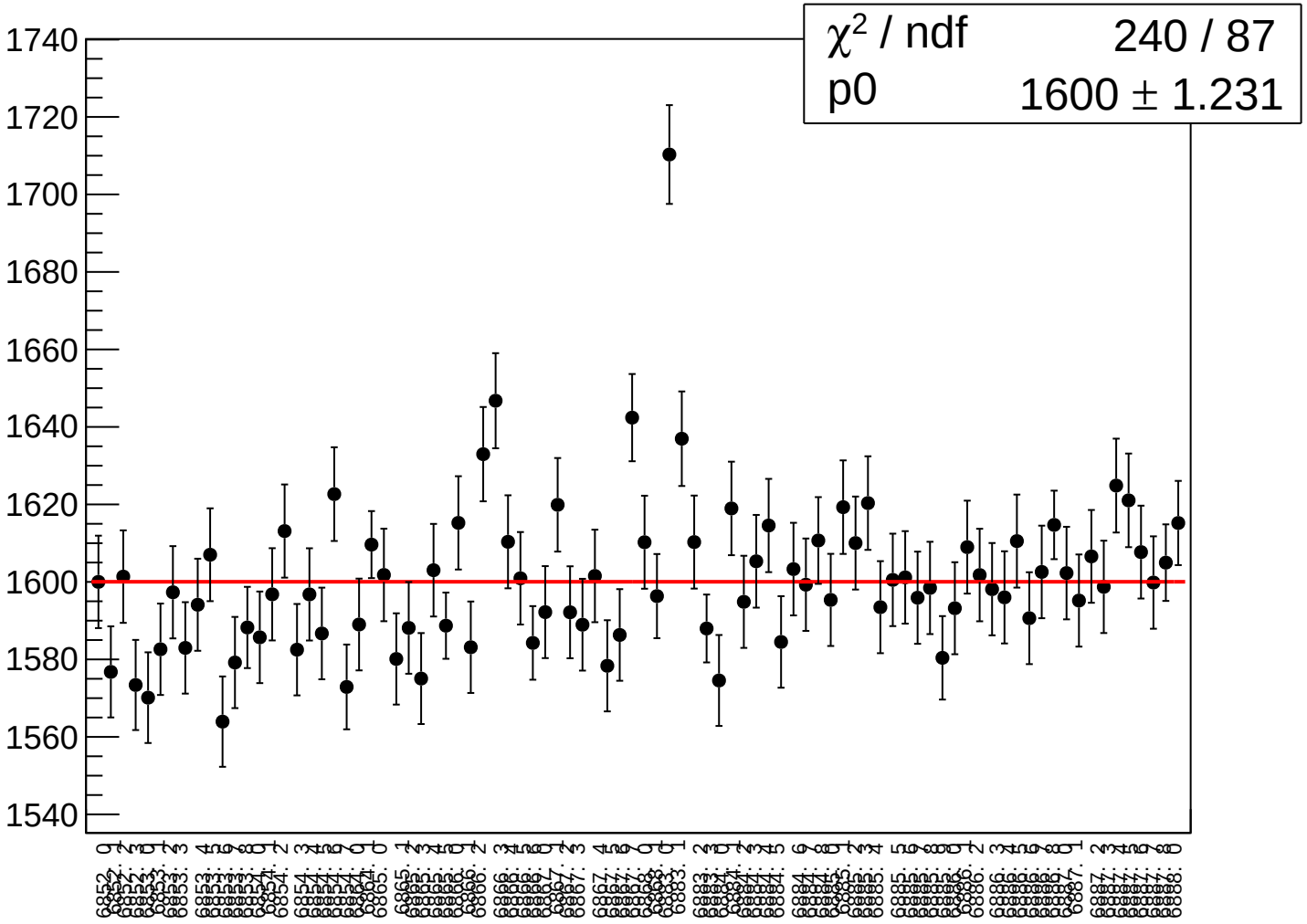

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 240 / 87
p0 1600 ± 1.231
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

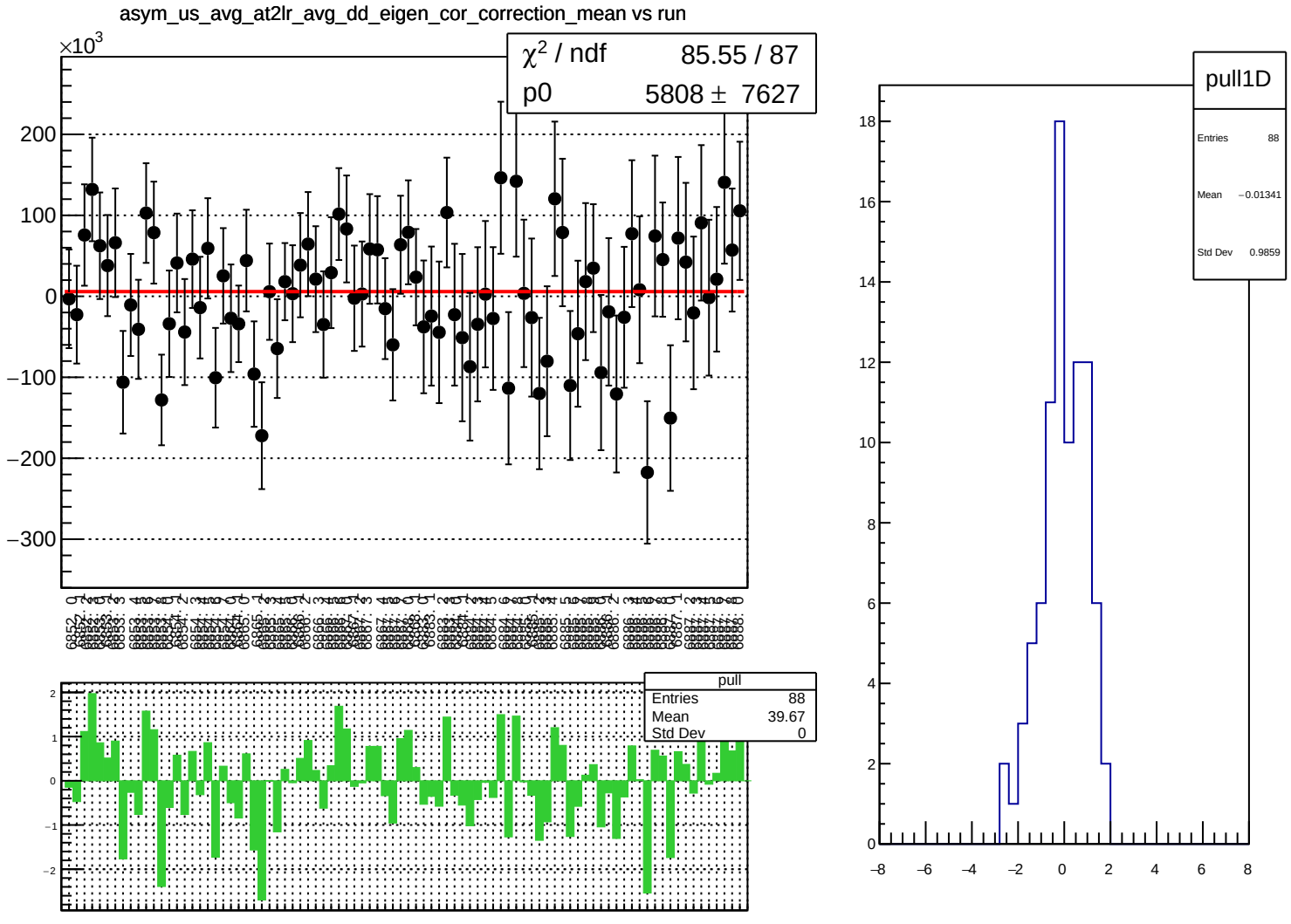

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.55 / 87
p0 5808 ± 7627
200
100
0
−100
−200
−300
pull
Entries 88
Mean 39.67
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01341
Std Dev 0.9859
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

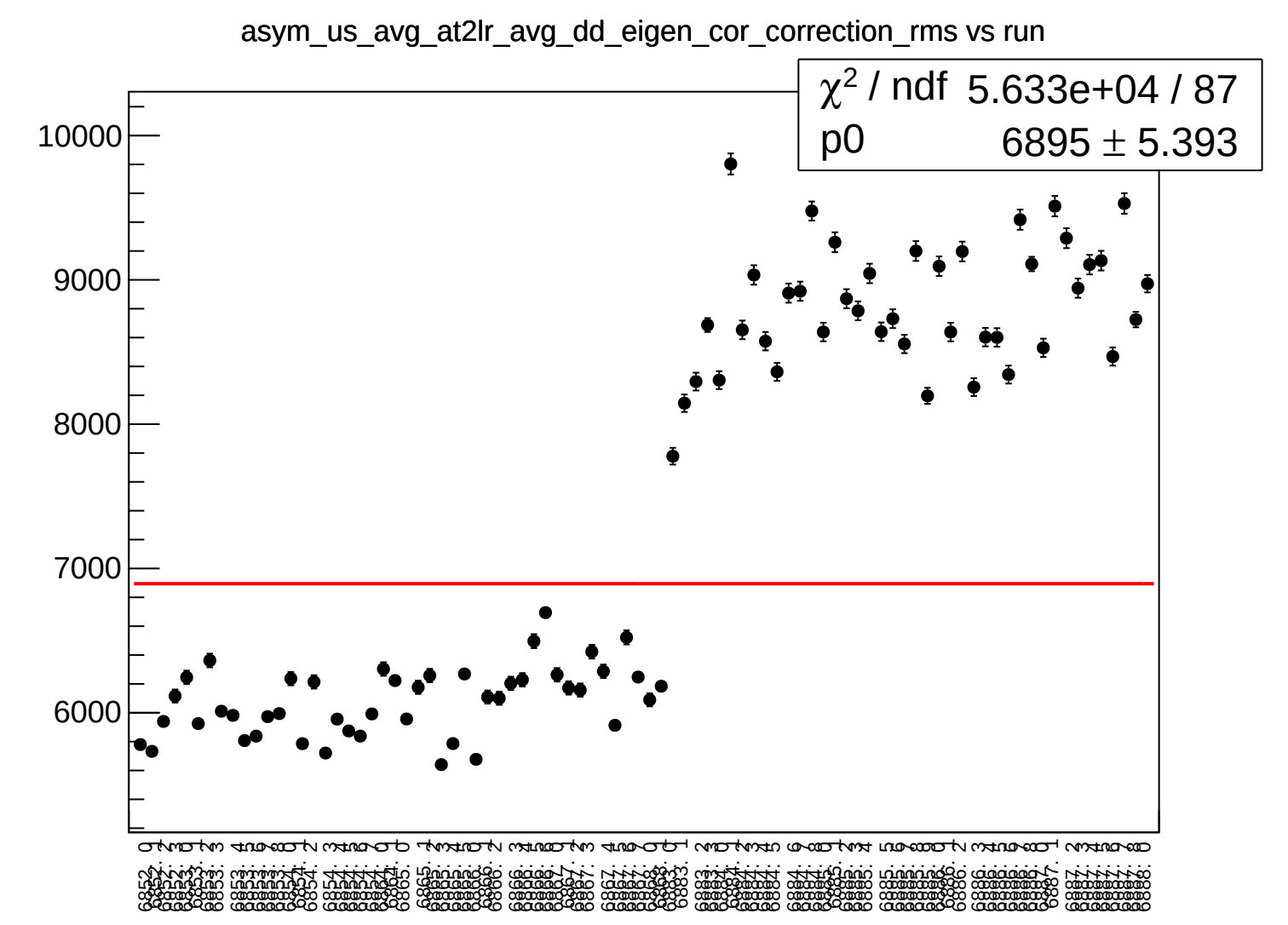

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 5.633e+04 / 87
p0 6895 ± 5.393
10000
9000
8000
7000
6000

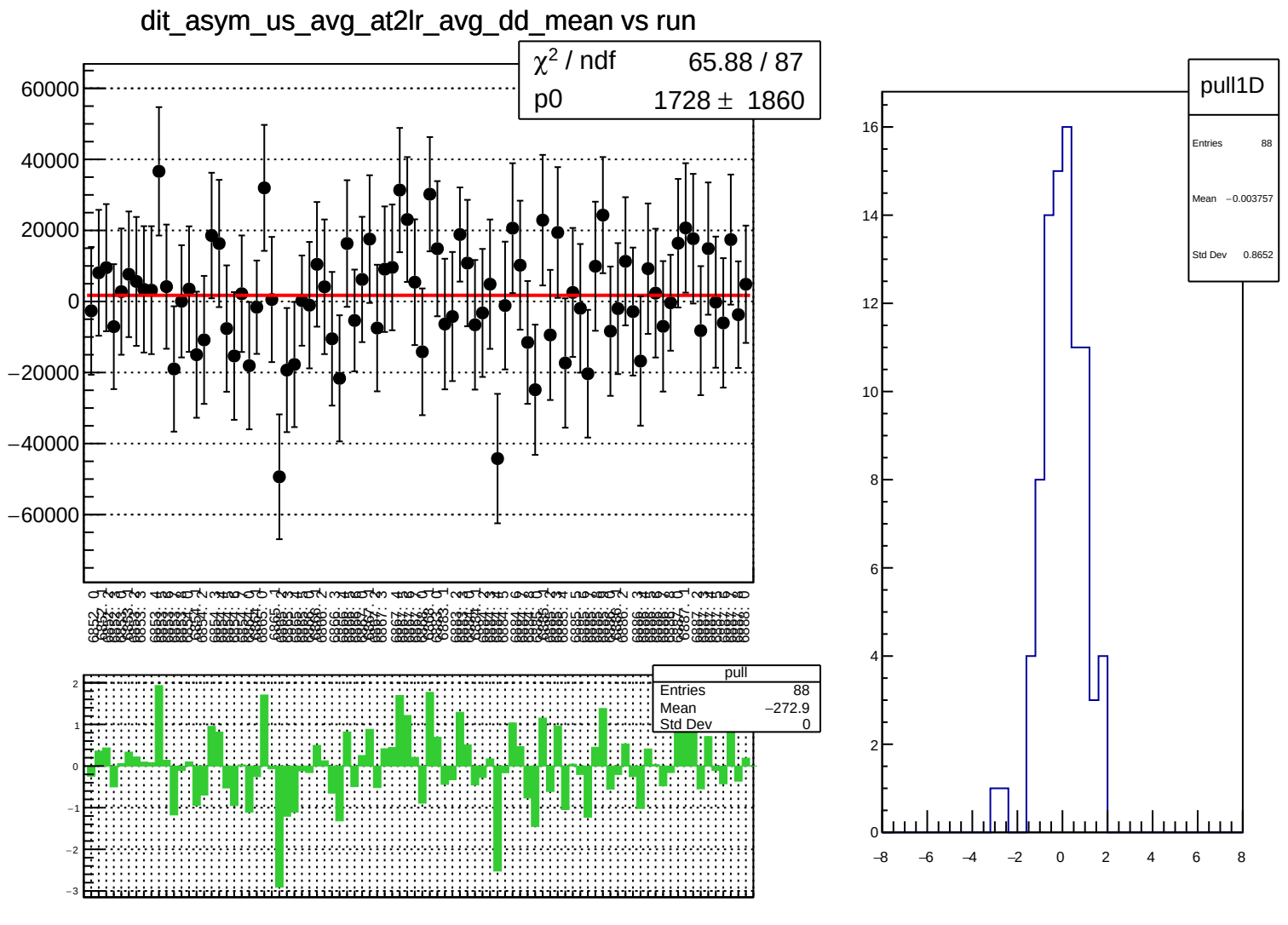

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 76.68 / 87
p0 1182 ± 1740
pull
Entries 88
Mean 1077
Std Dev 0

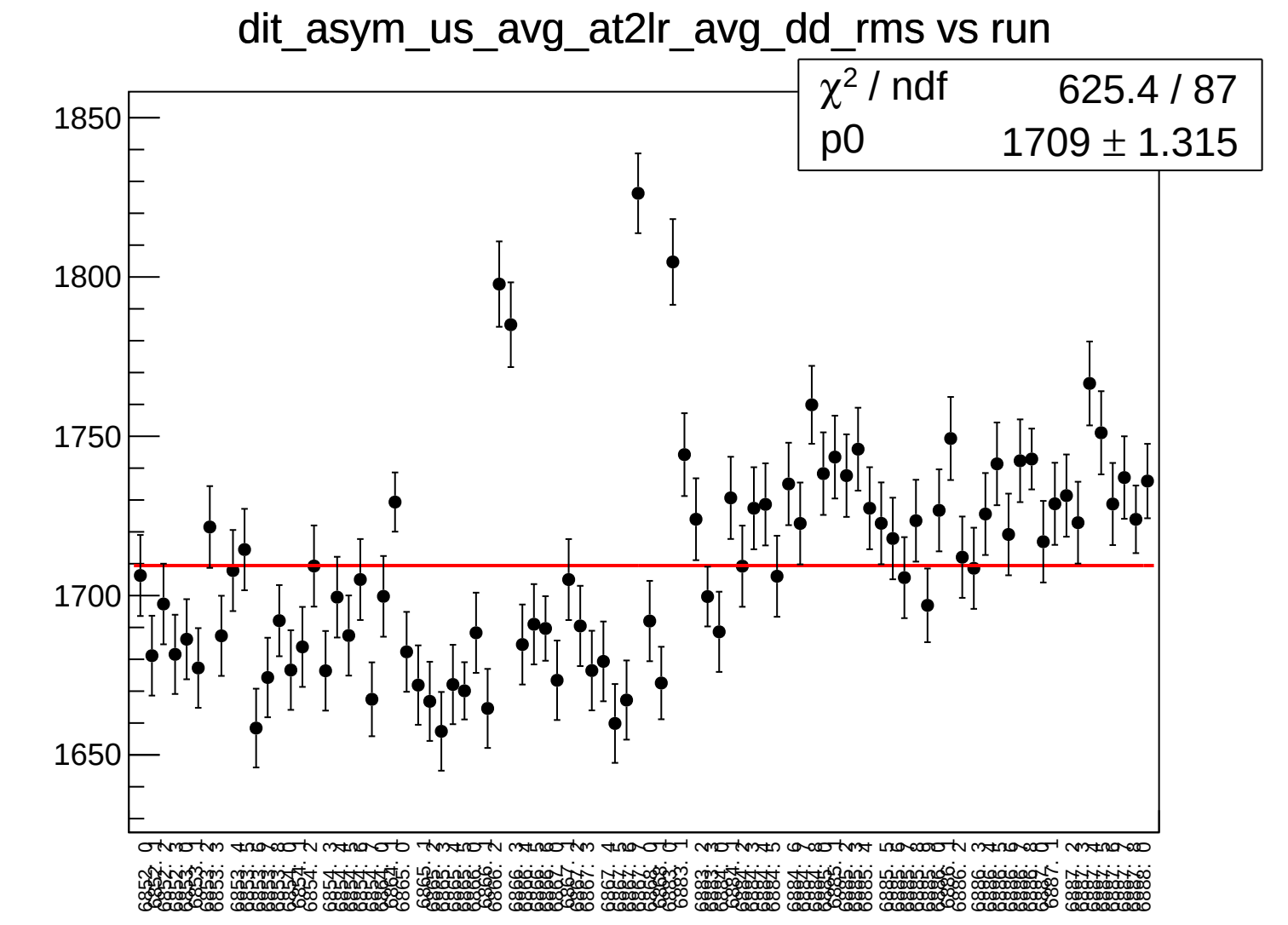

pull1D
Entries 88
Mean 0.00109
Std Dev 0.9335

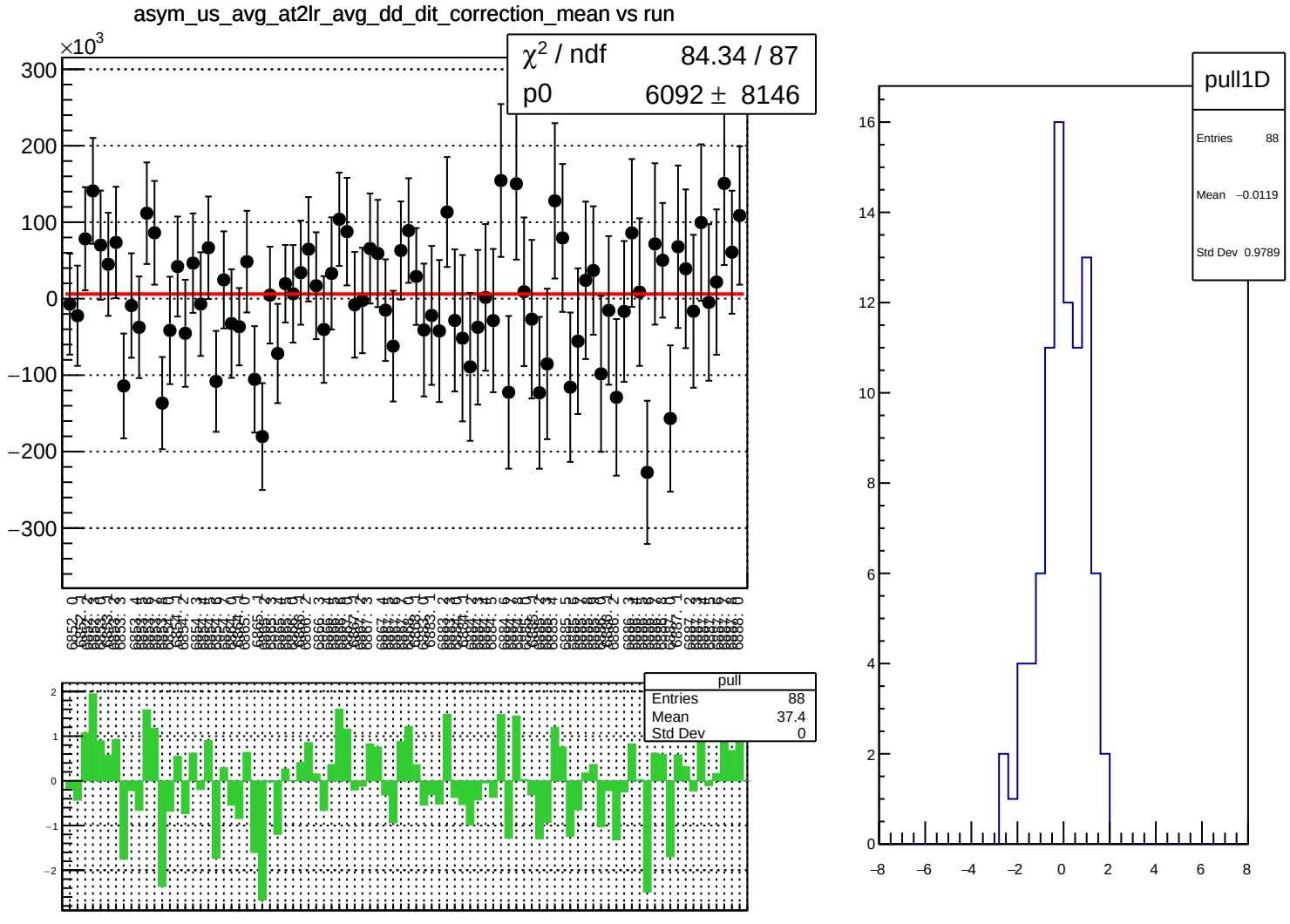

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 240 / 87
p0 1600 ± 1.231
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

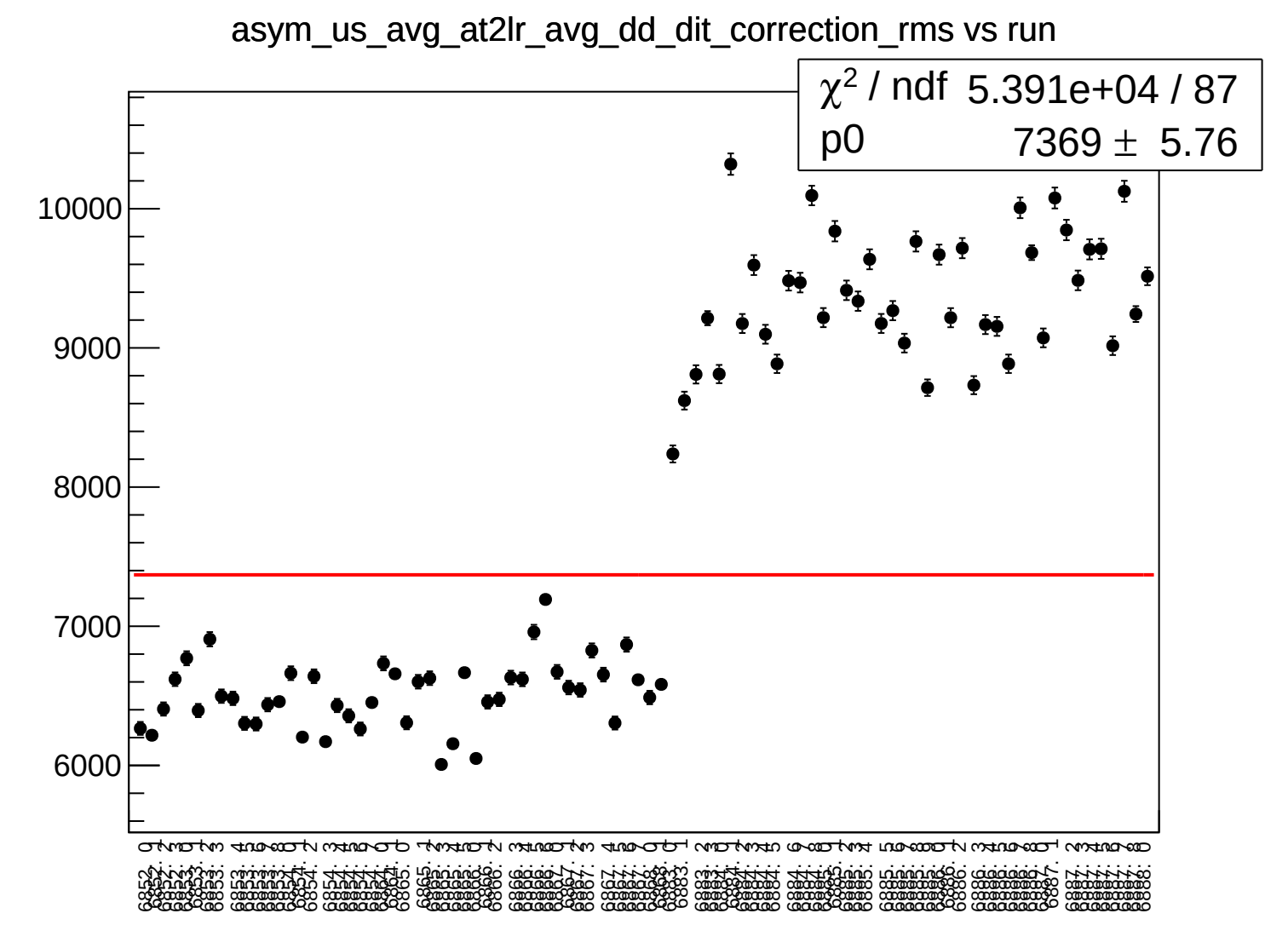

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.55 / 87
p0 5808 ± 7627
200
100
0
−100
−200
−300
pull
Entries 88
Mean 39.67
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01341
Std Dev 0.9859
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

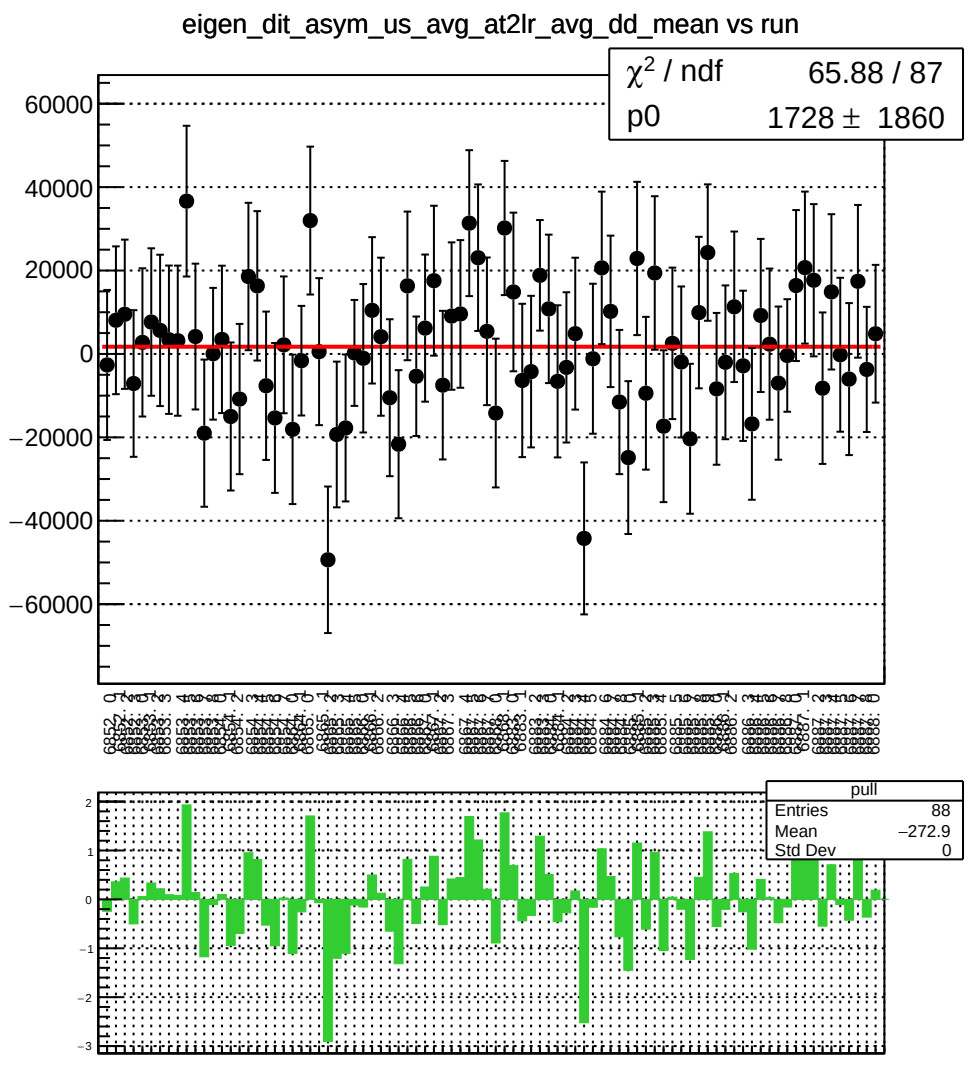

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.633e+04 / 87
p0 6895 ± 5.393
10000
9000
8000
7000
6000

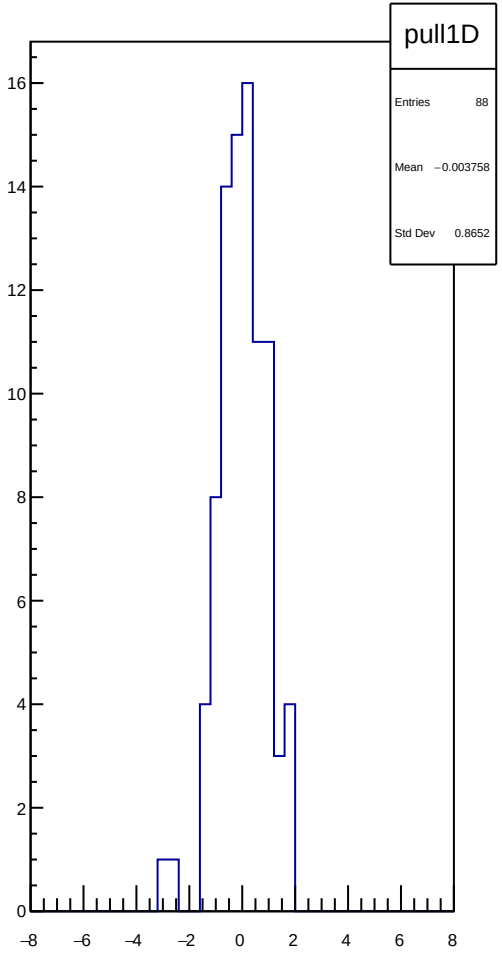

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 65.88 / 87
p0 1728 ± 1860
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −272.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.003757
Std Dev 0.8652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

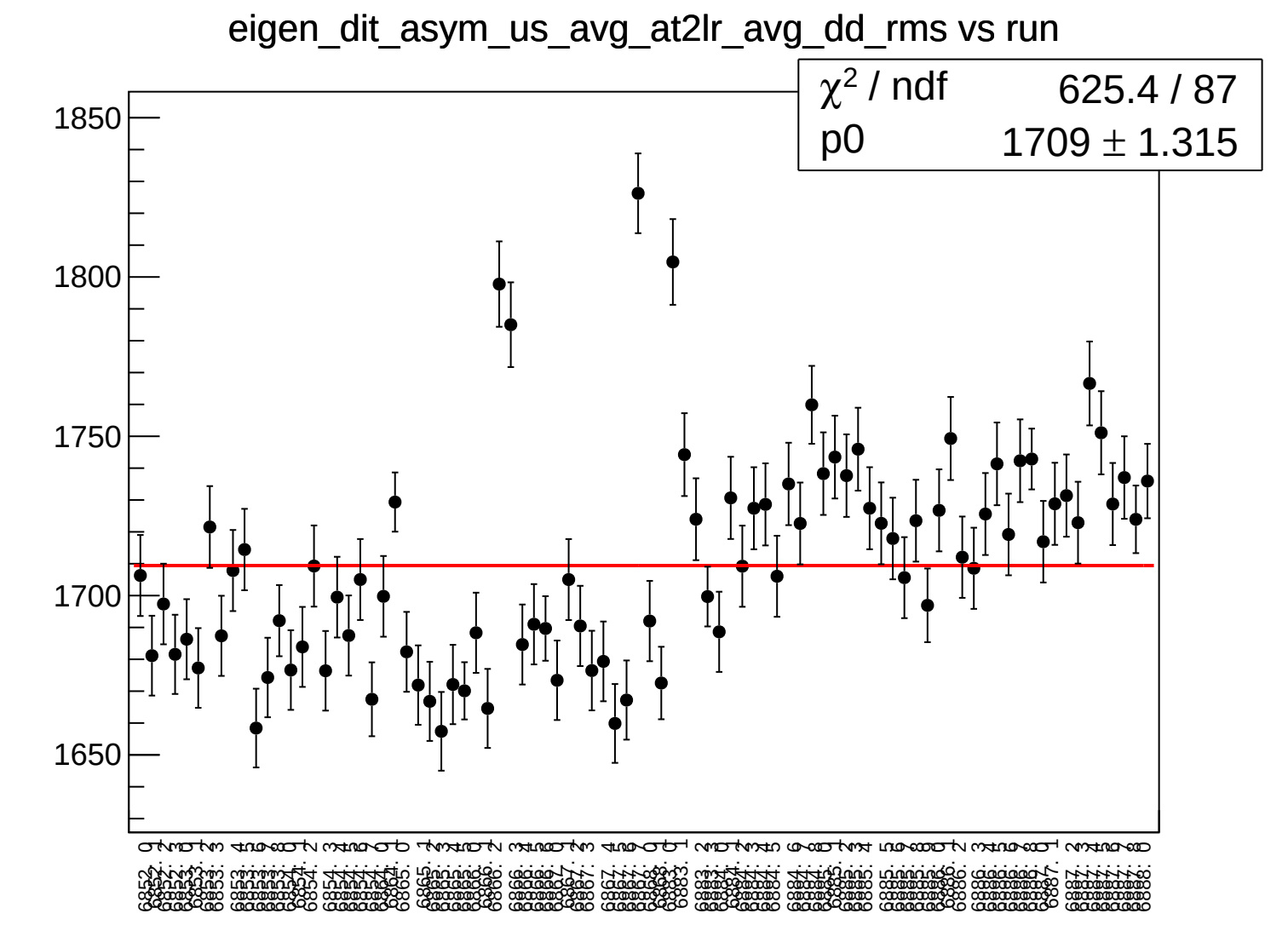

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 625.4 / 87
p0 1709 ± 1.315
1850
1800
1750
1700
1650

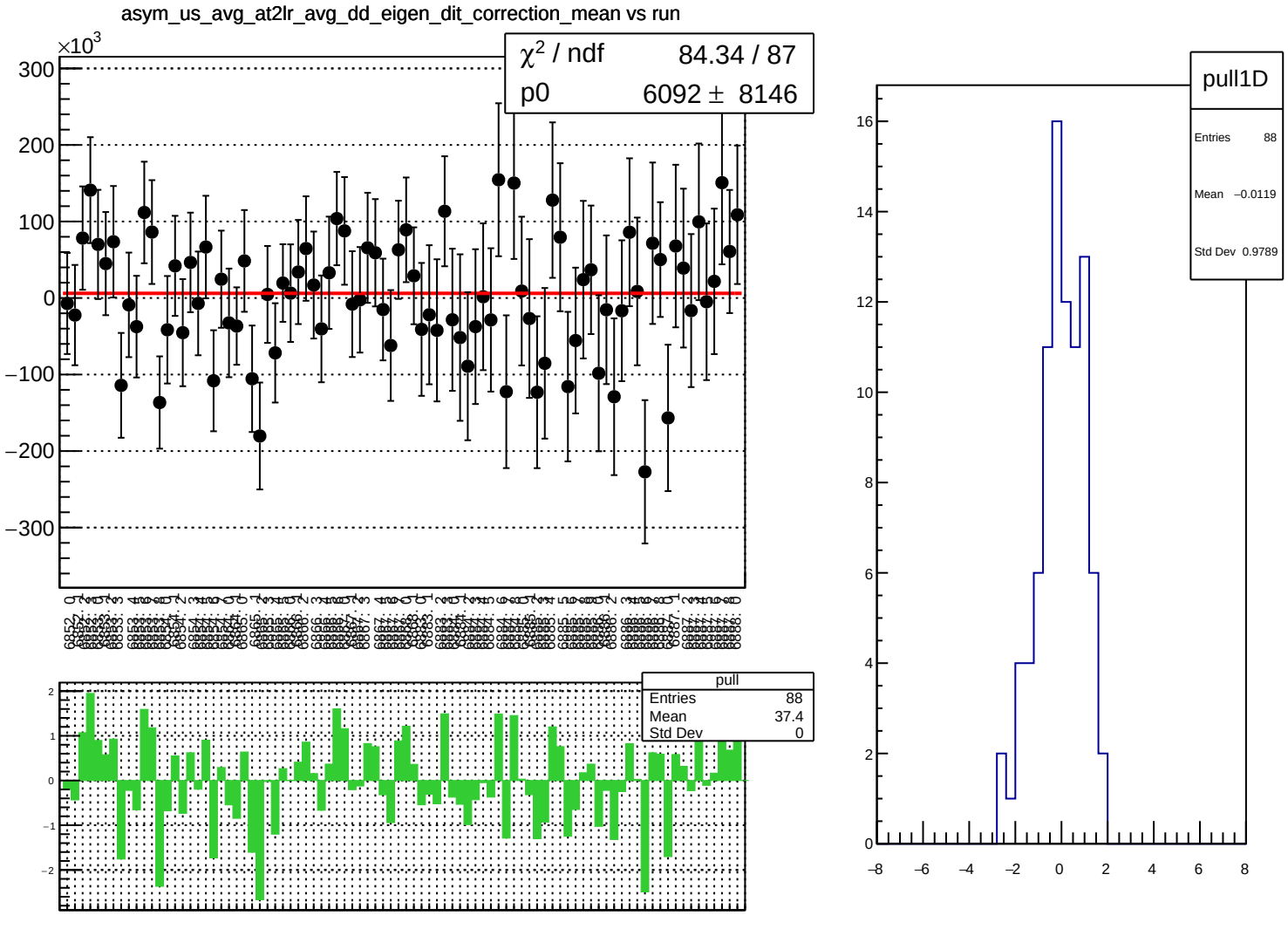

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.34 / 87
p0 6092 ± 8146
pull
Entries 88
Mean 37.4
Std Dev 0
pull1D
Entries 88
Mean −0.0119
Std Dev 0.9789

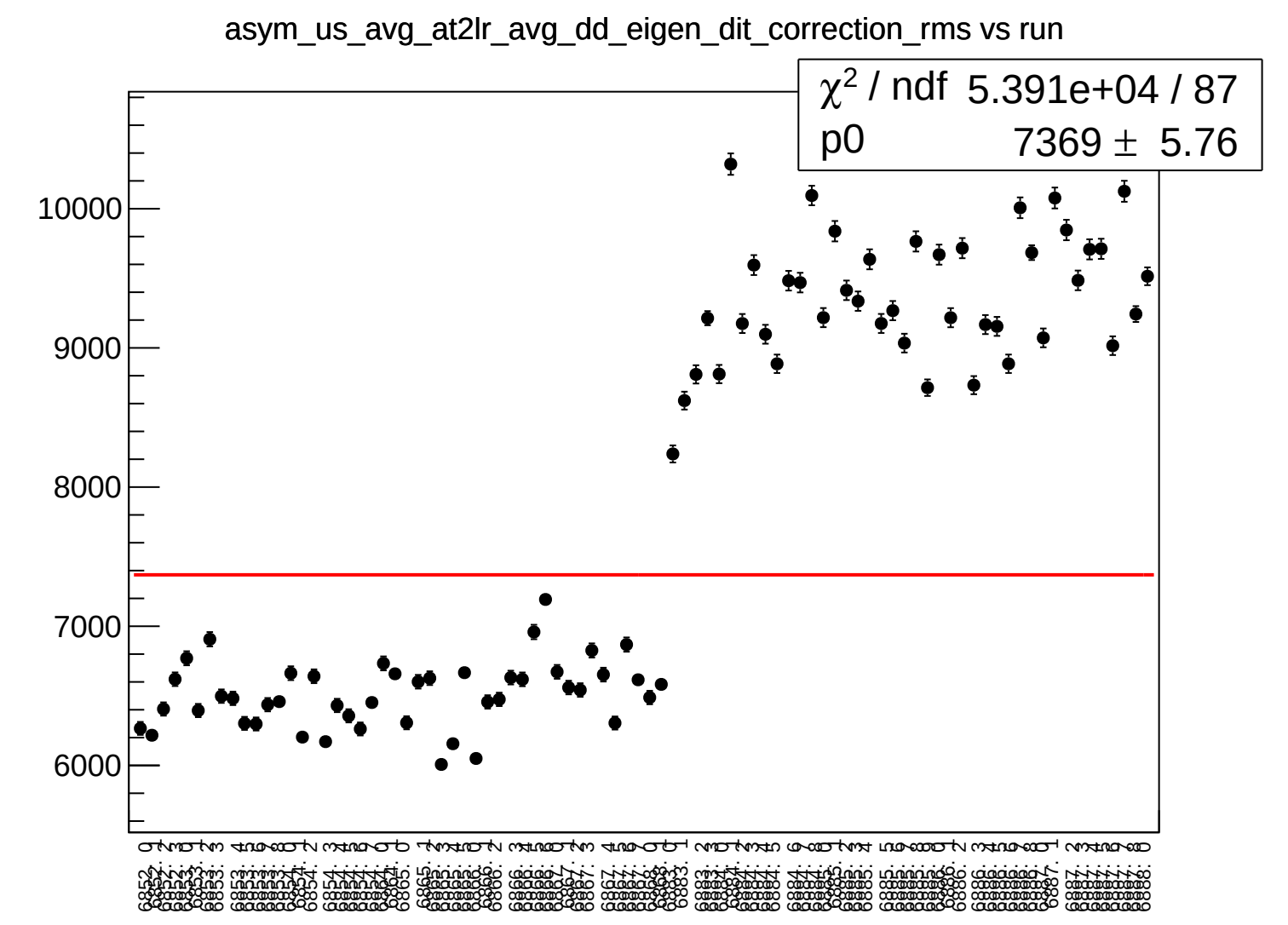

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 5.391e+04 / 87
p0 7369 ± 5.76
10000
9000
8000
7000
6000

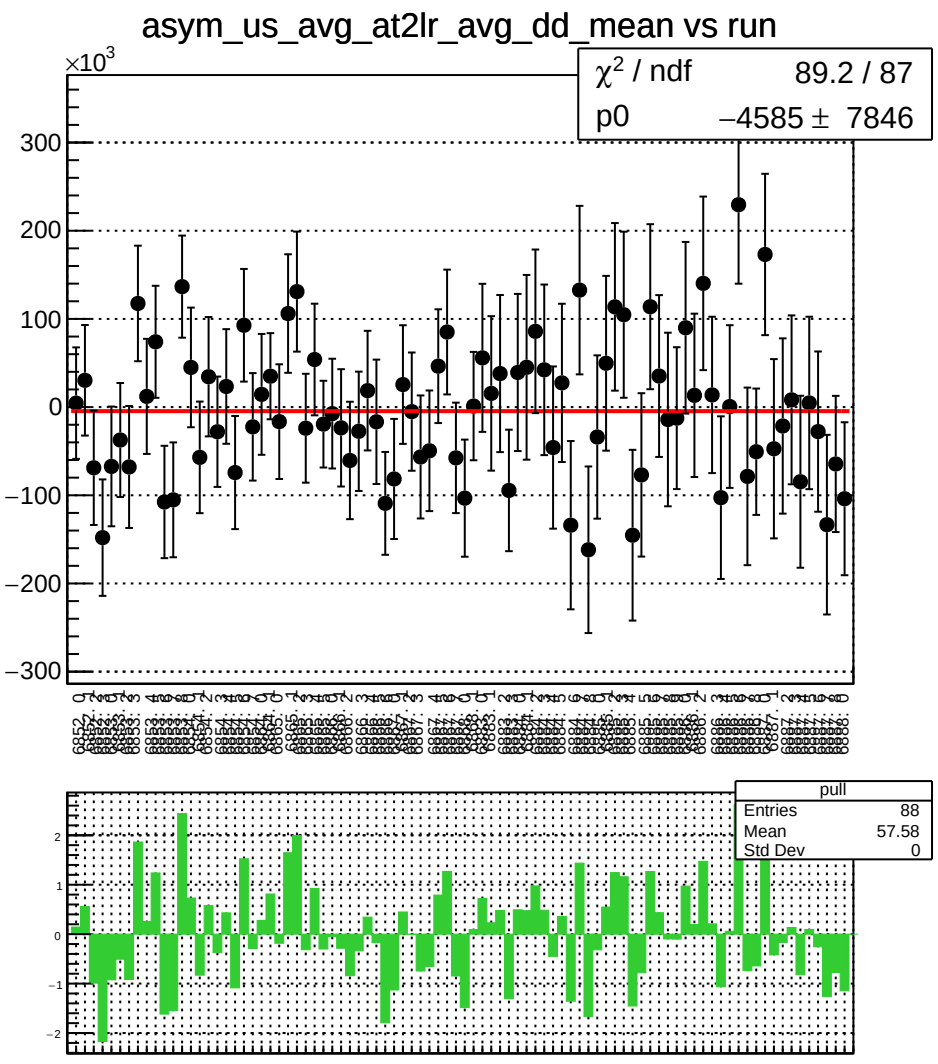

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 65.88 / 87
p0 1728 ± 1860
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −272.9
Std Dev 0
2
1
0
−1
−2
−3

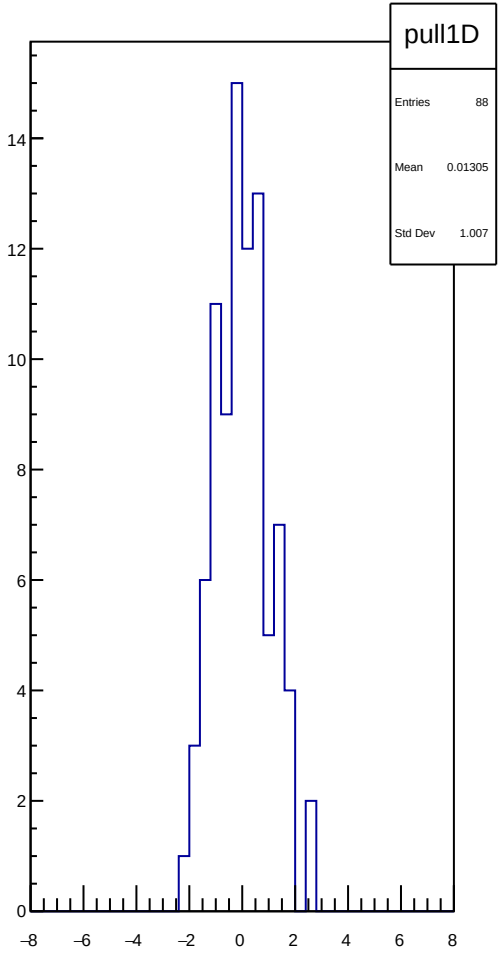

pull1D
Entries 88
Mean −0.003758
Std Dev 0.8652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

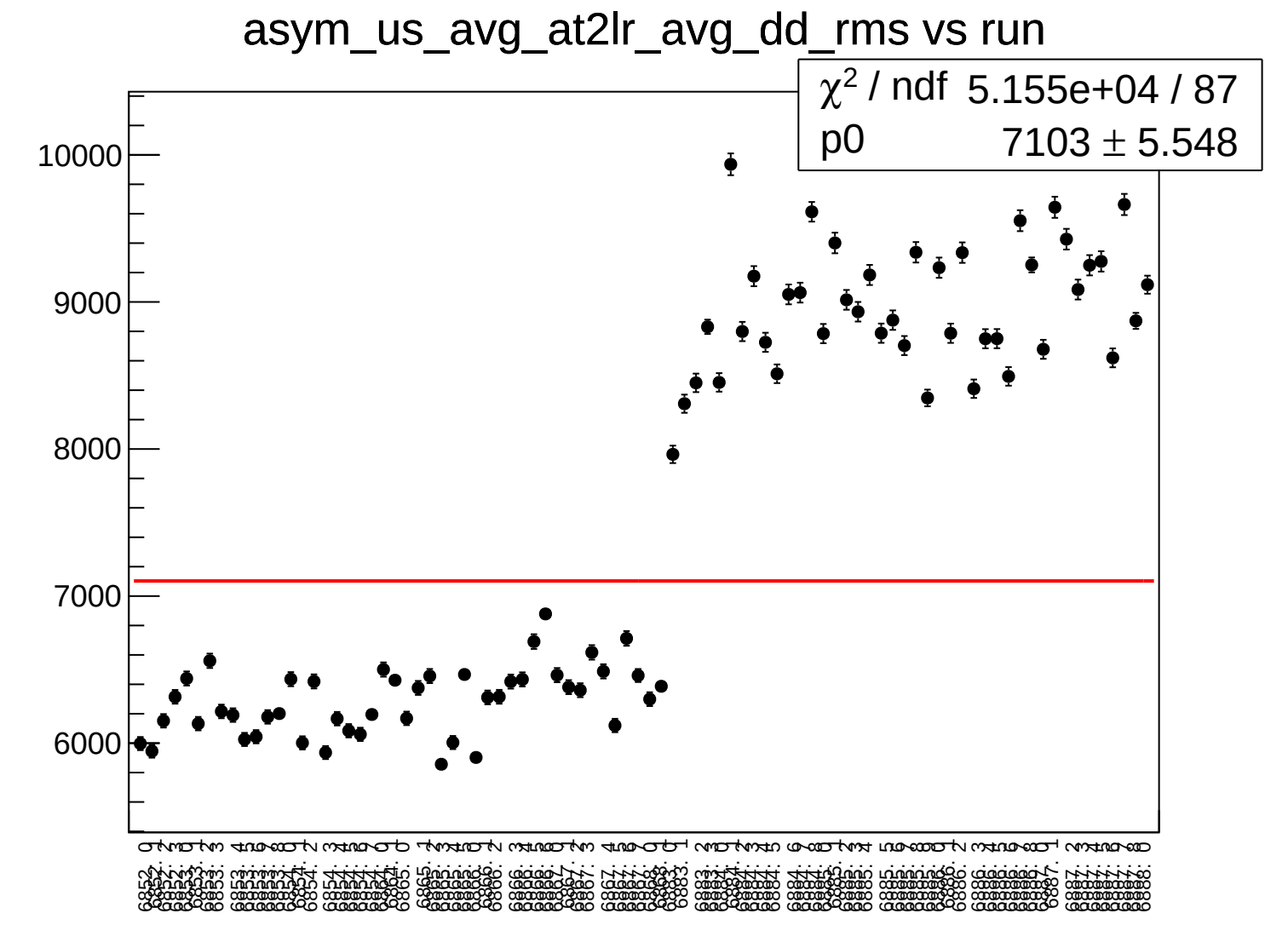

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 625.4 / 87
p0 1709 ± 1.315
1850
1800
1750
1700
1650

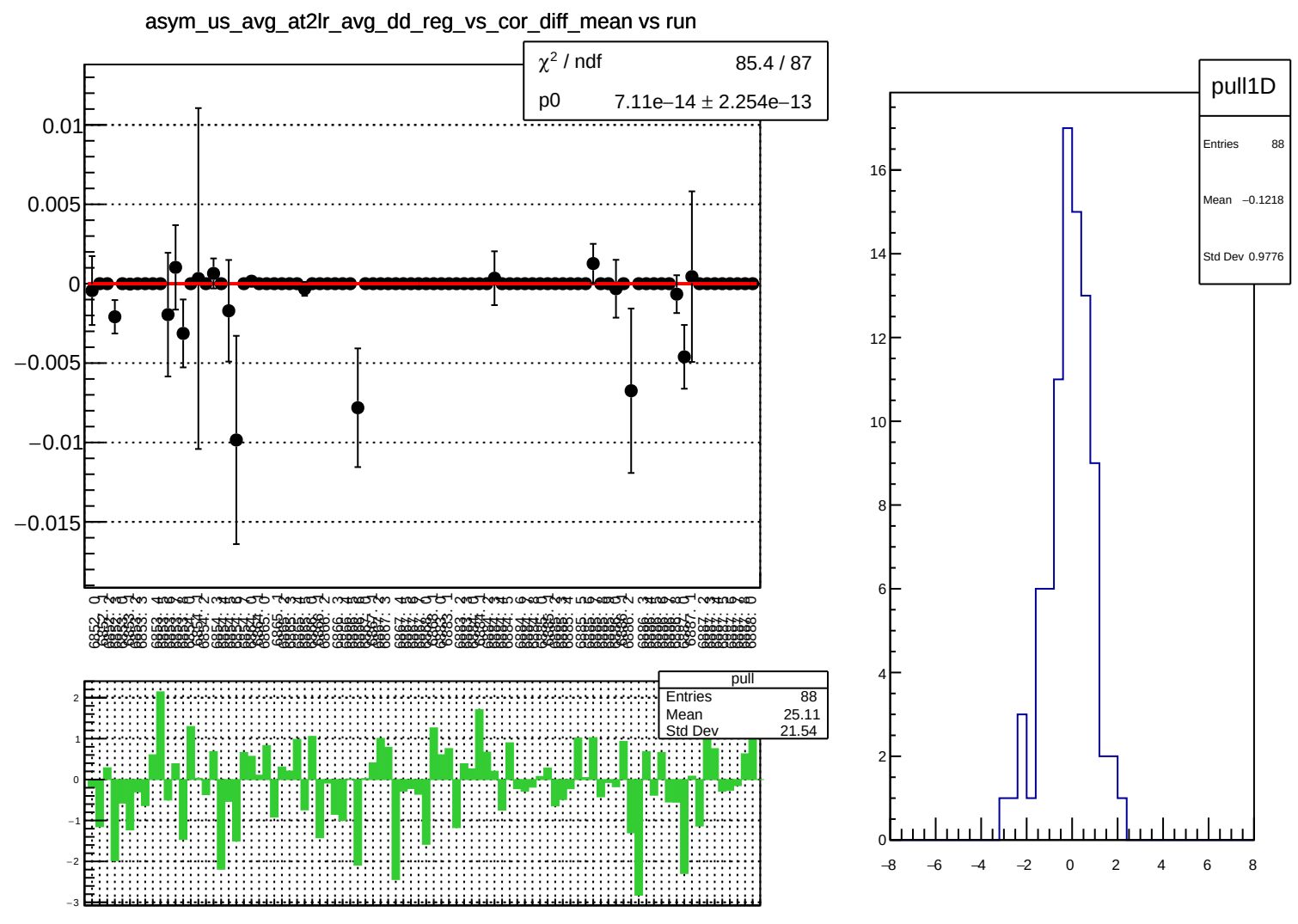

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.34 / 87
p0 6092 ± 8146
pull
Entries 88
Mean 37.4
Std Dev 0
pull1D
Entries 88
Mean −0.0119
Std Dev 0.9789

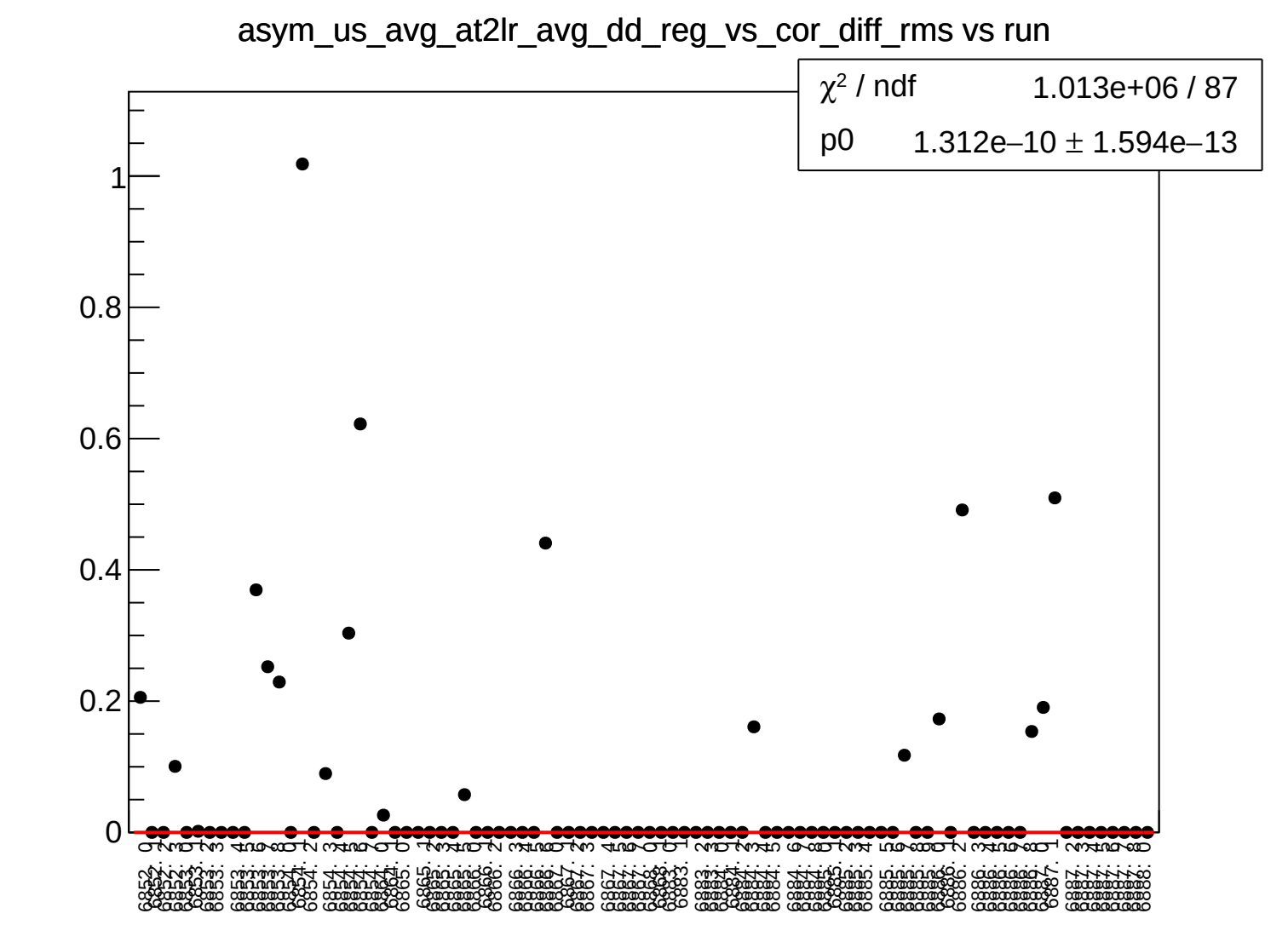

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.391e+04 / 87
p0 7369 ± 5.76
10000
9000
8000
7000
6000

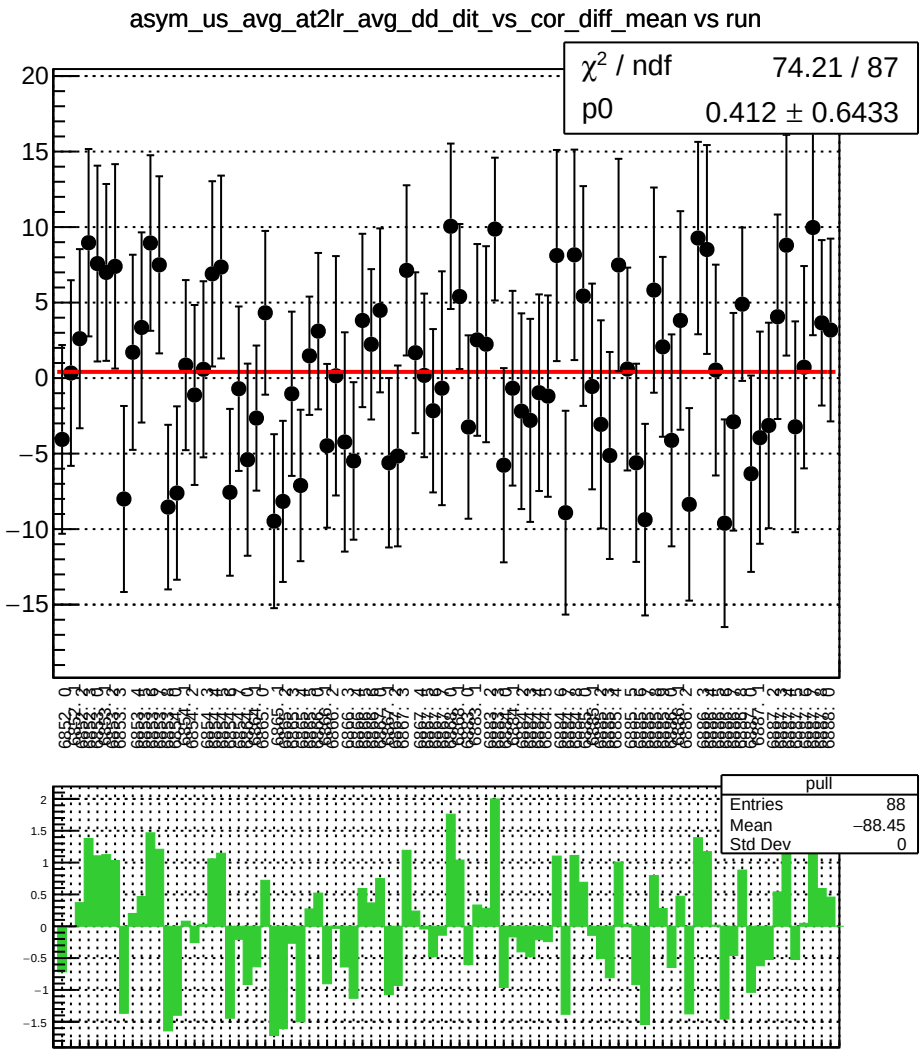

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 89.2 / 87
p0 −4585 ± 7846
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 57.58
Std Dev 0
2
1
0
−1
−2

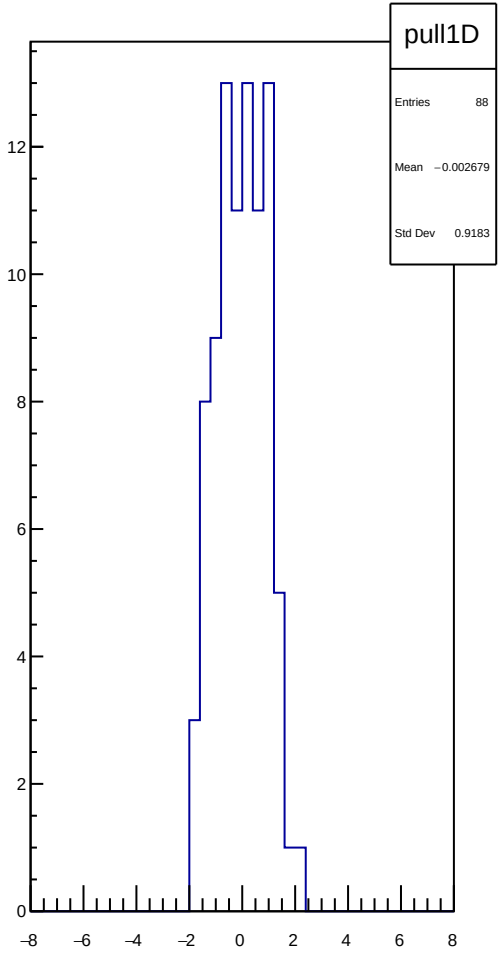

pull1D
Entries 88
Mean 0.01305
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

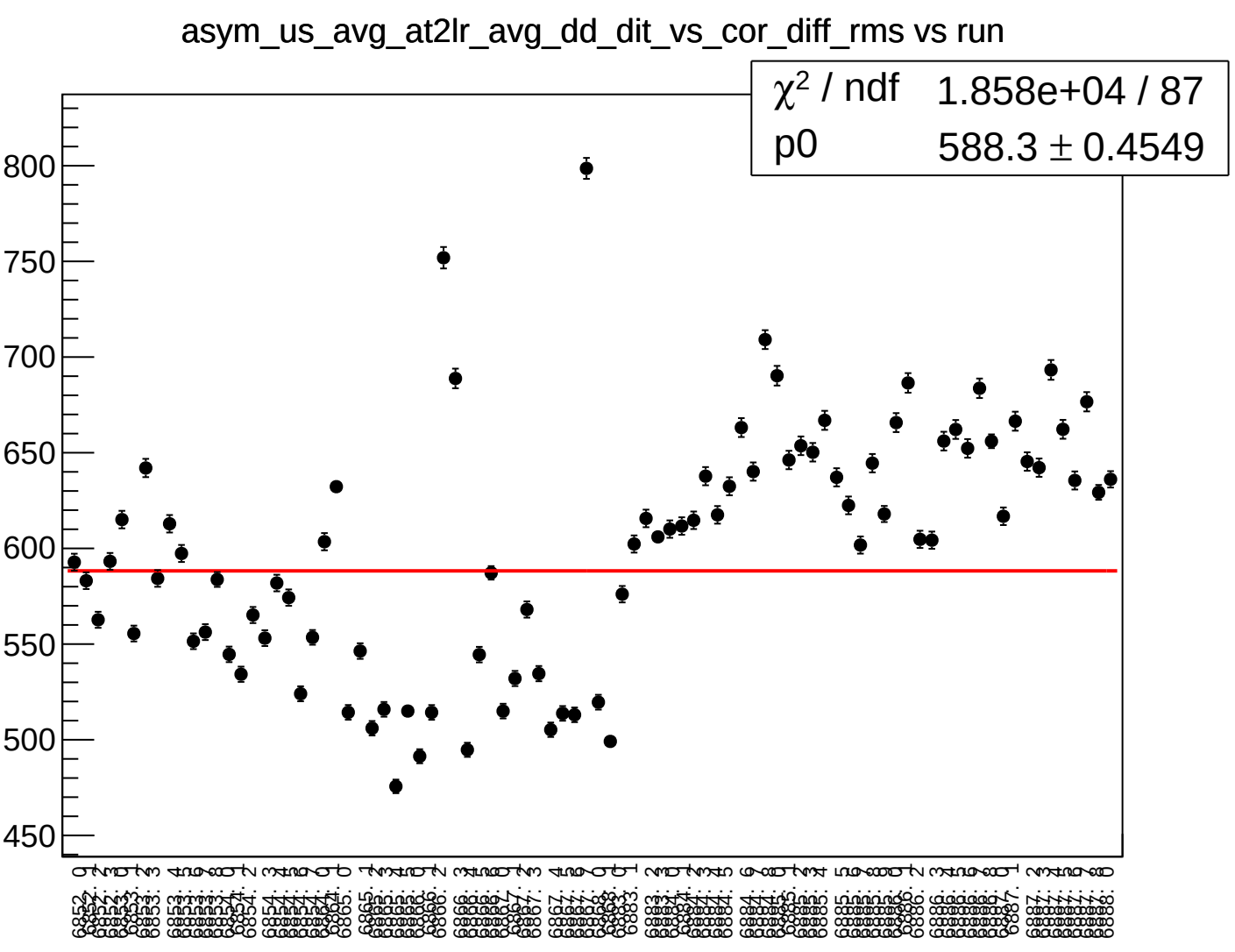

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 5.155e+04 / 87
p0 7103 ± 5.548
10000
9000
8000
7000
6000

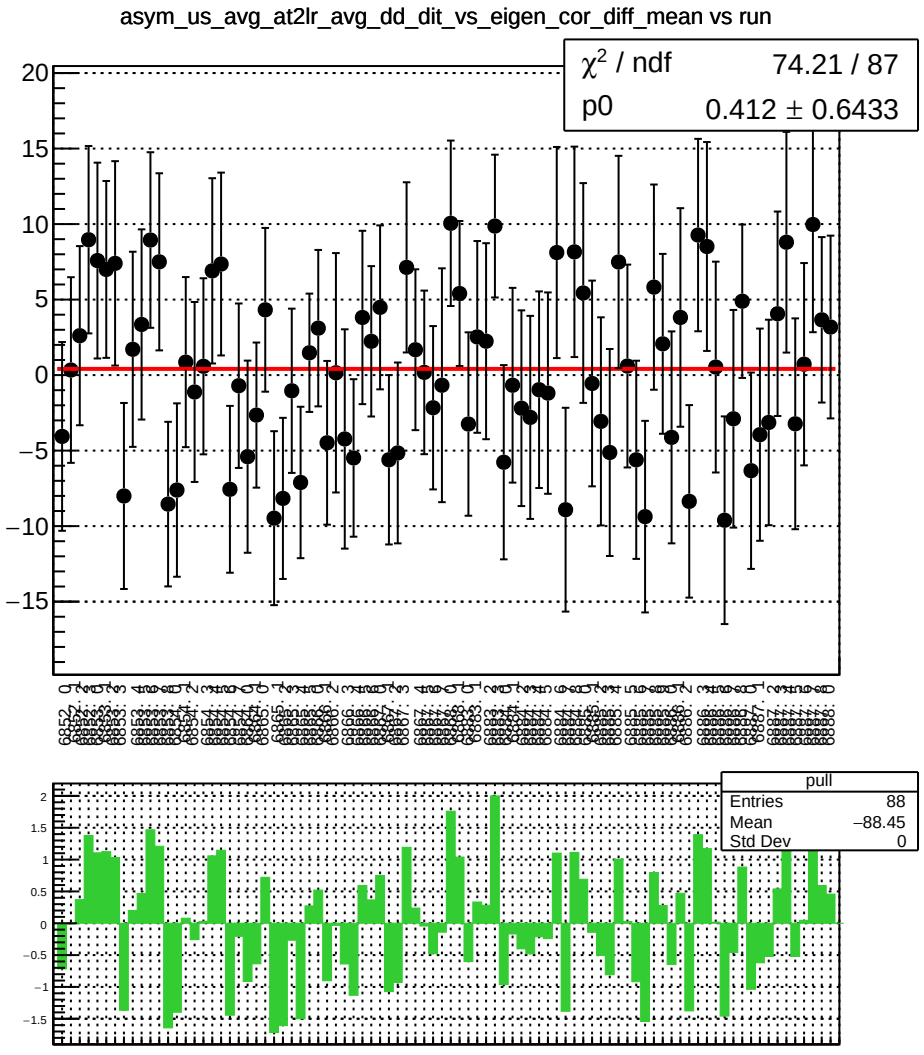

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.4 / 87
p0 7.11e−14 ± 2.254e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 25.11
Std Dev 21.54
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.1218
Std Dev 0.9776
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

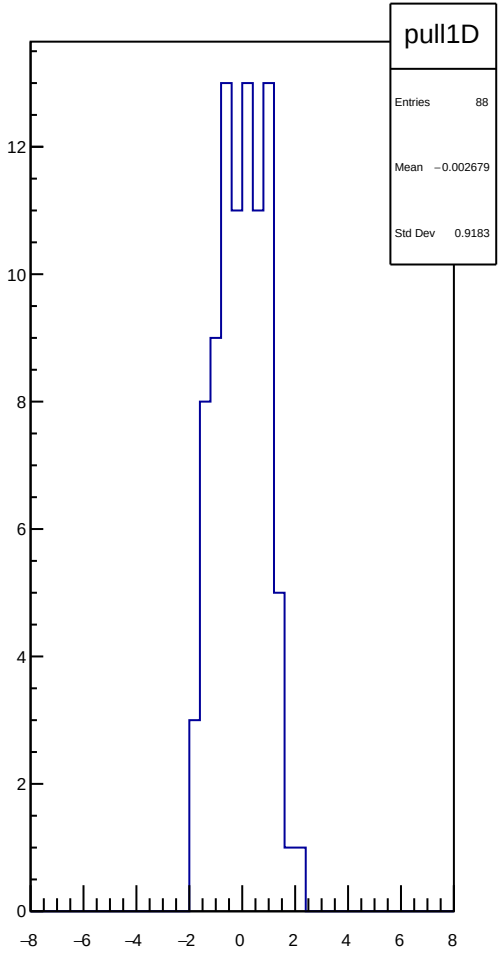

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.013e+06 / 87
p0 1.312e−10 ± 1.594e−13
1
0.8
0.6
0.4
0.2
0

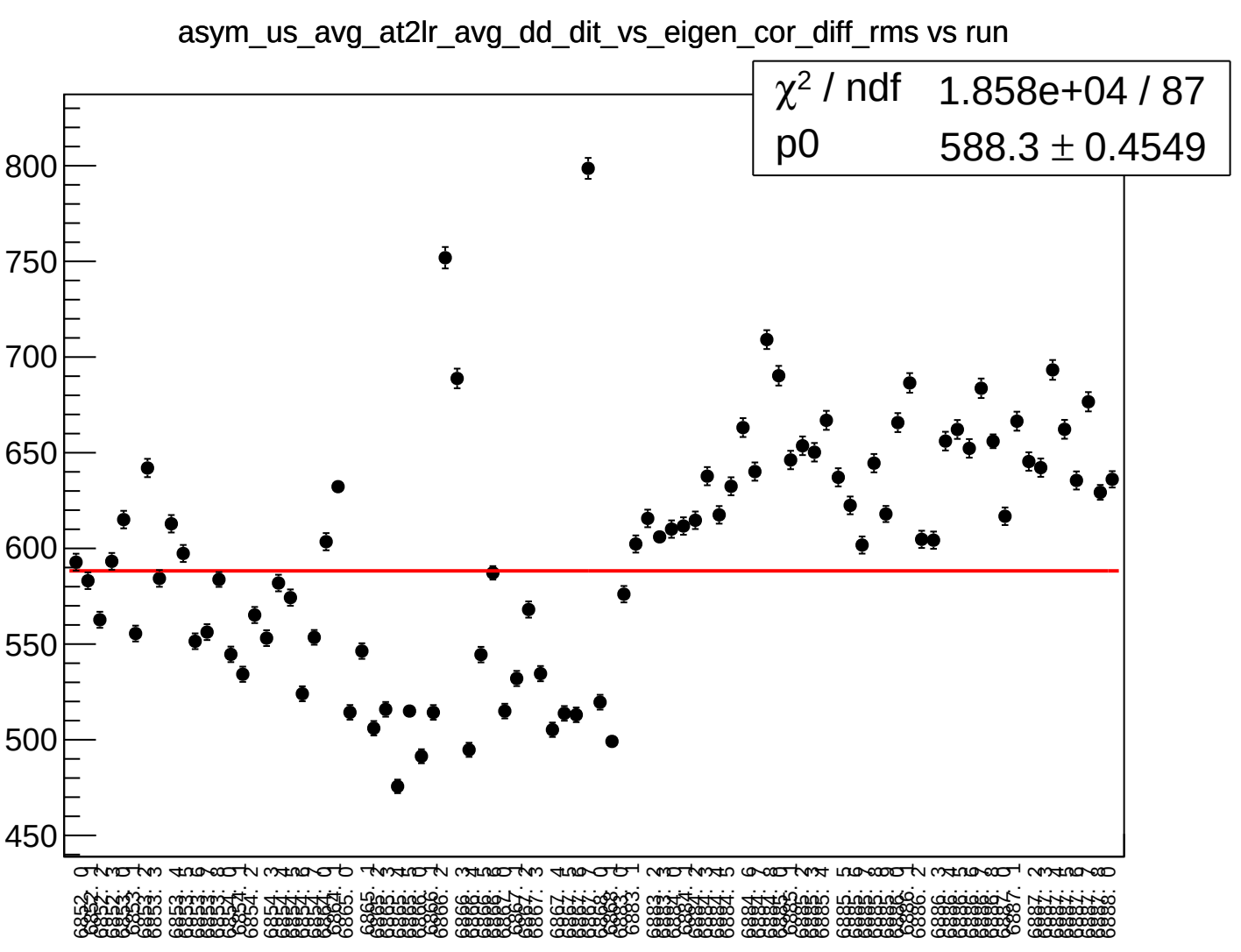

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.21 / 87
p0 0.412 ± 0.6433
pull
Entries 88
Mean −88.45
Std Dev 0

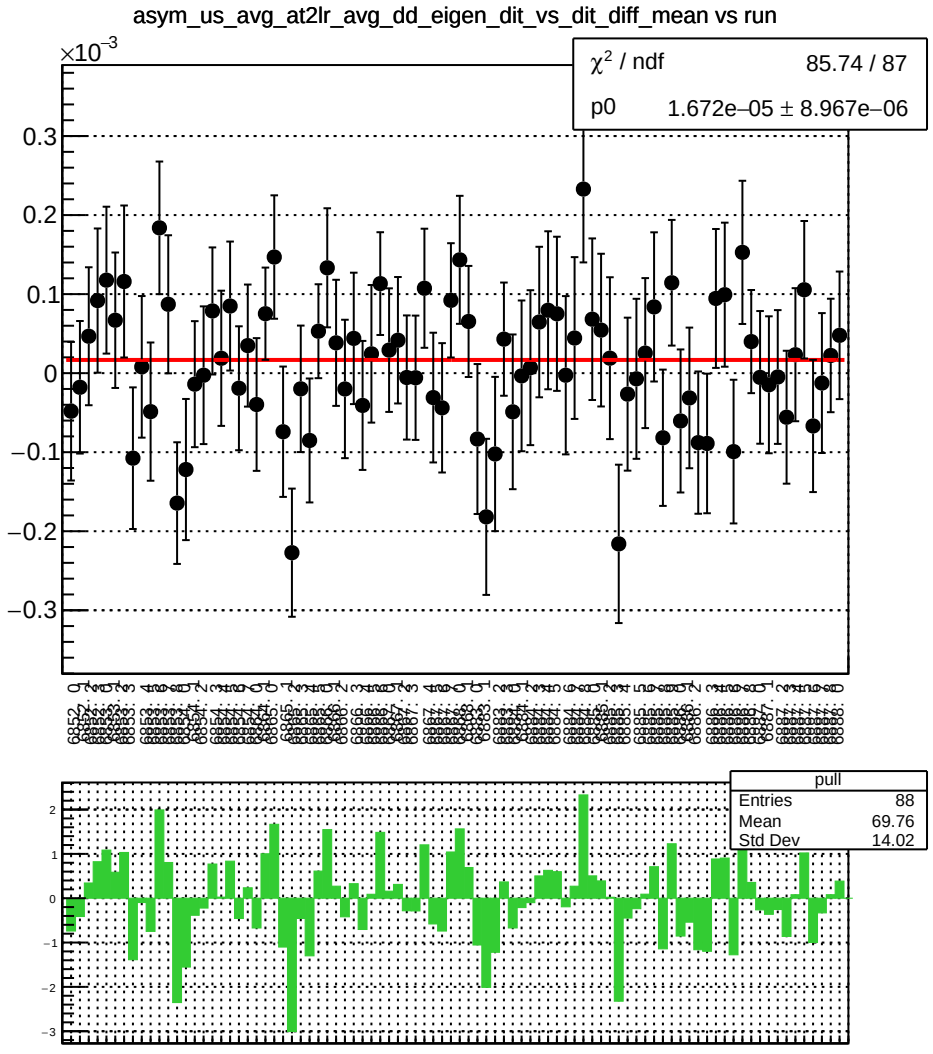

pull1D
Entries 88
Mean −0.002679
Std Dev 0.9183

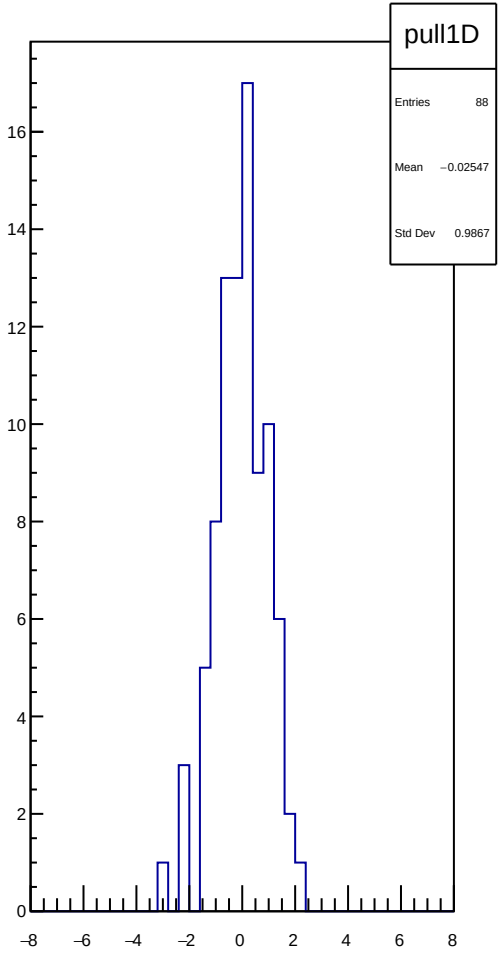

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.858e+04 / 87
p0 588.3 ± 0.4549
800
750
700
650
600
550
500
450


asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.21 / 87
p0 0.412 ± 0.6433
pull
Entries 88
Mean −88.45
Std Dev 0


pull1D
Entries 88
Mean −0.002679
Std Dev 0.9183


asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.858e+04 / 87
p0 588.3 ± 0.4549
800
750
700
650
600
550
500
450


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.74 / 87
p0 1.672e−05 ± 8.967e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 88
Mean 69.76
Std Dev 14.02
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean −0.02547
Std Dev 0.9867
16
14
12
10
8
6
4
2
0
−8
−6
−4
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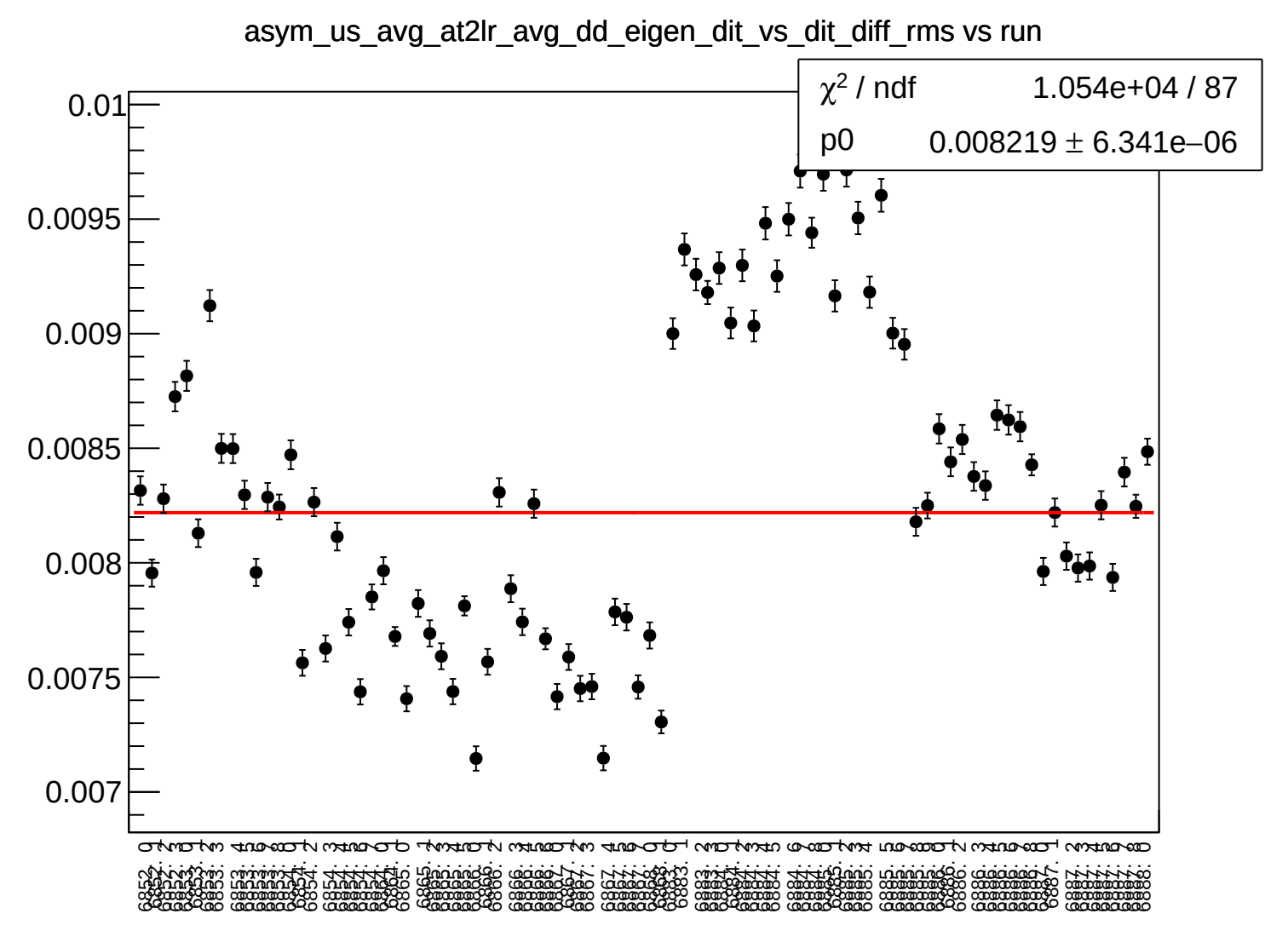
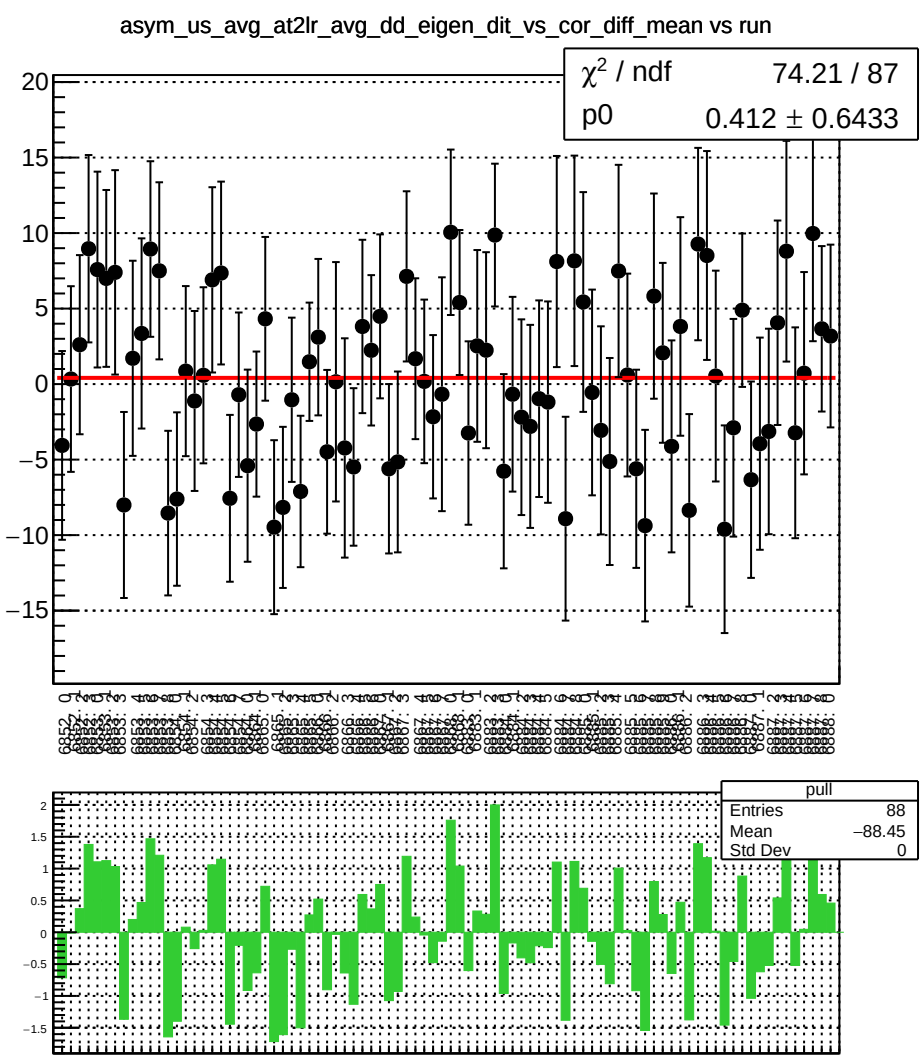
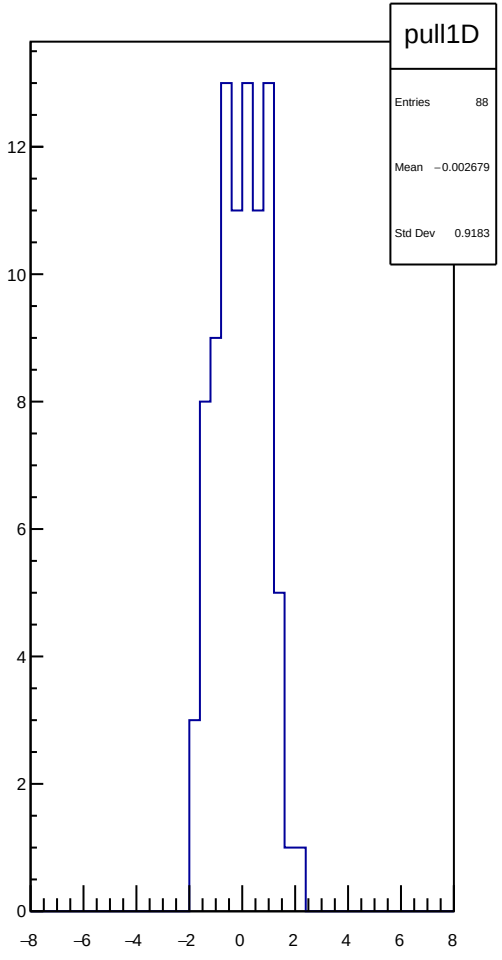
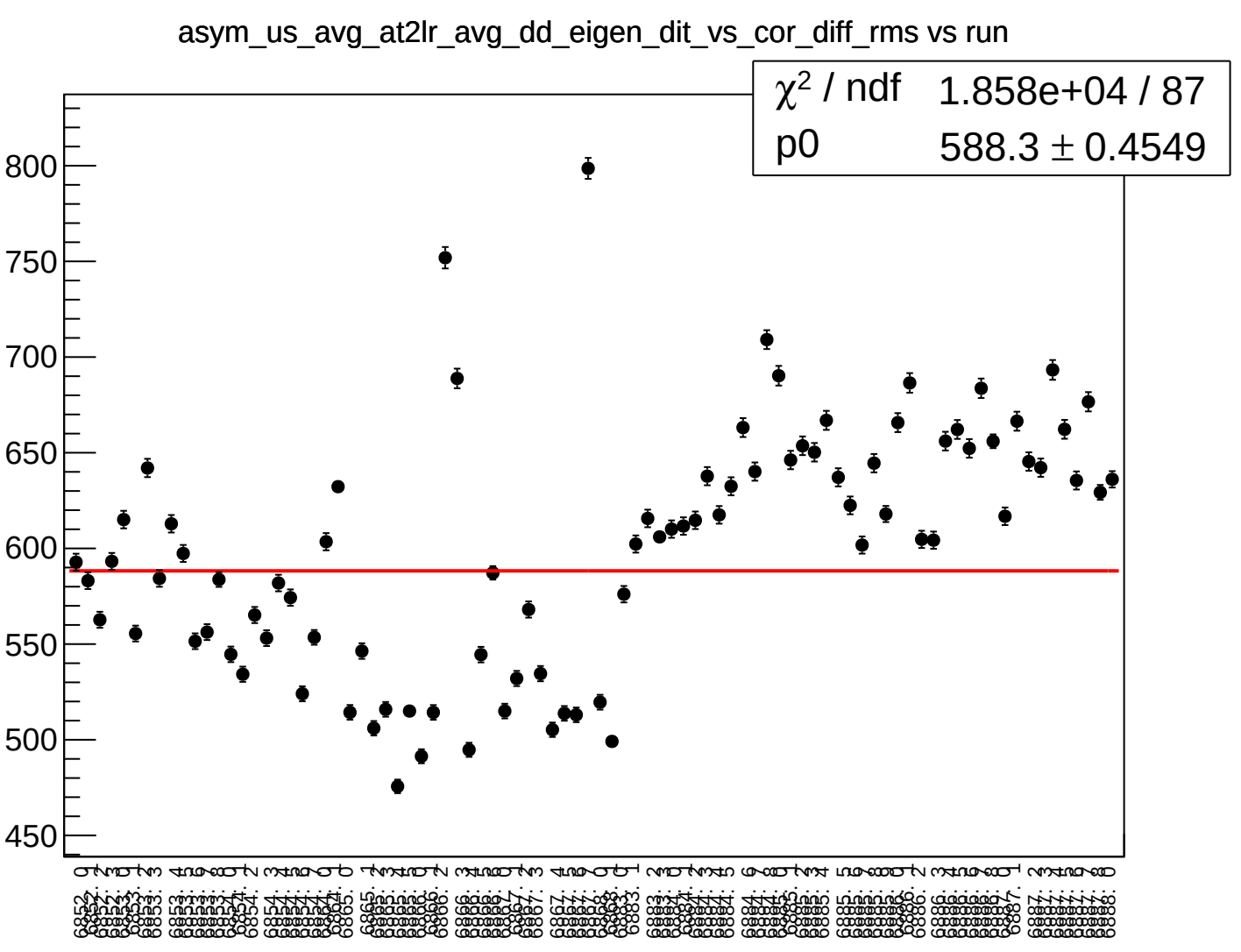
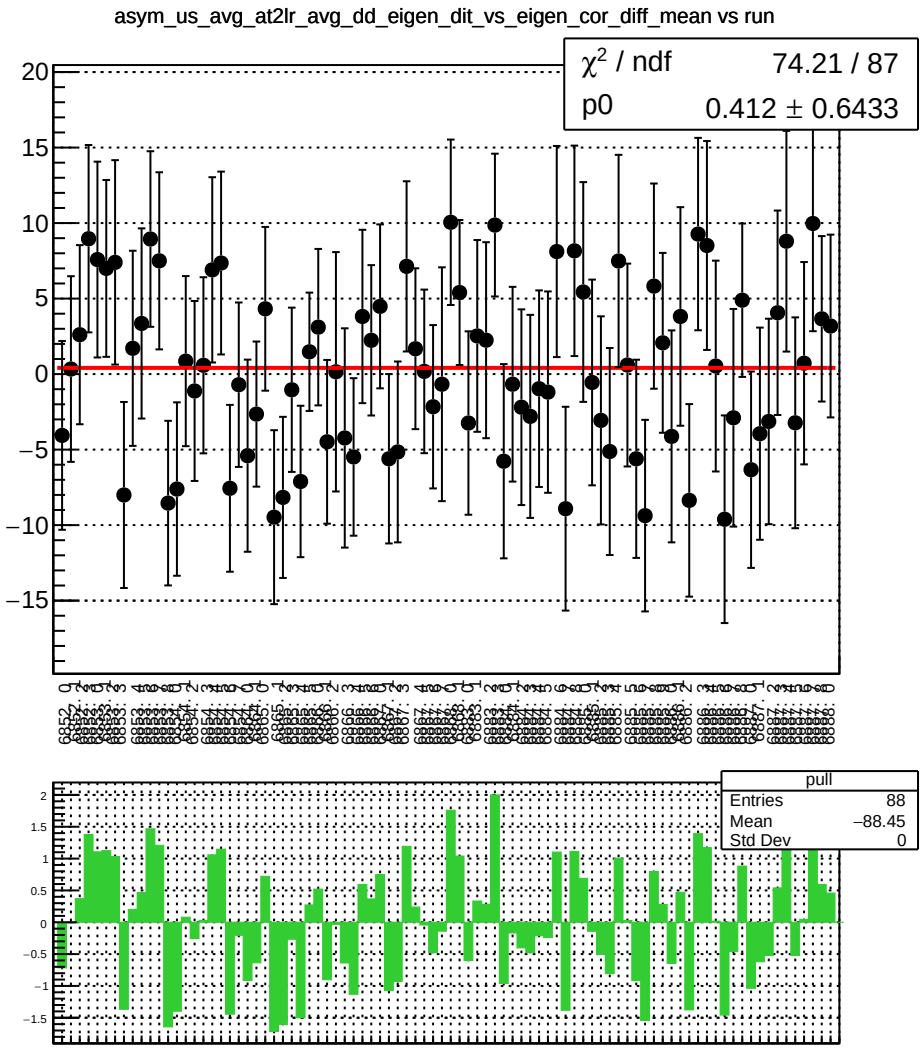
0
2
4
6
8

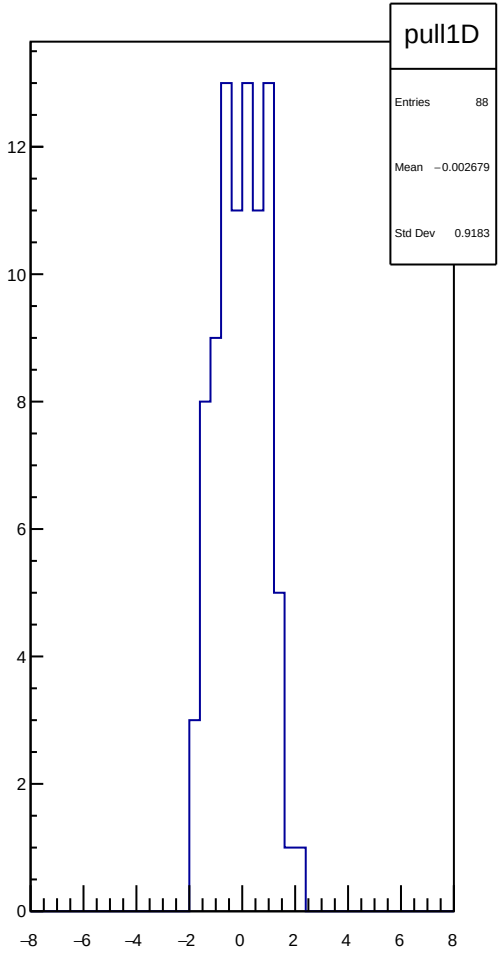

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.054e+04 / 87
p0 0.008219 ± 6.341e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

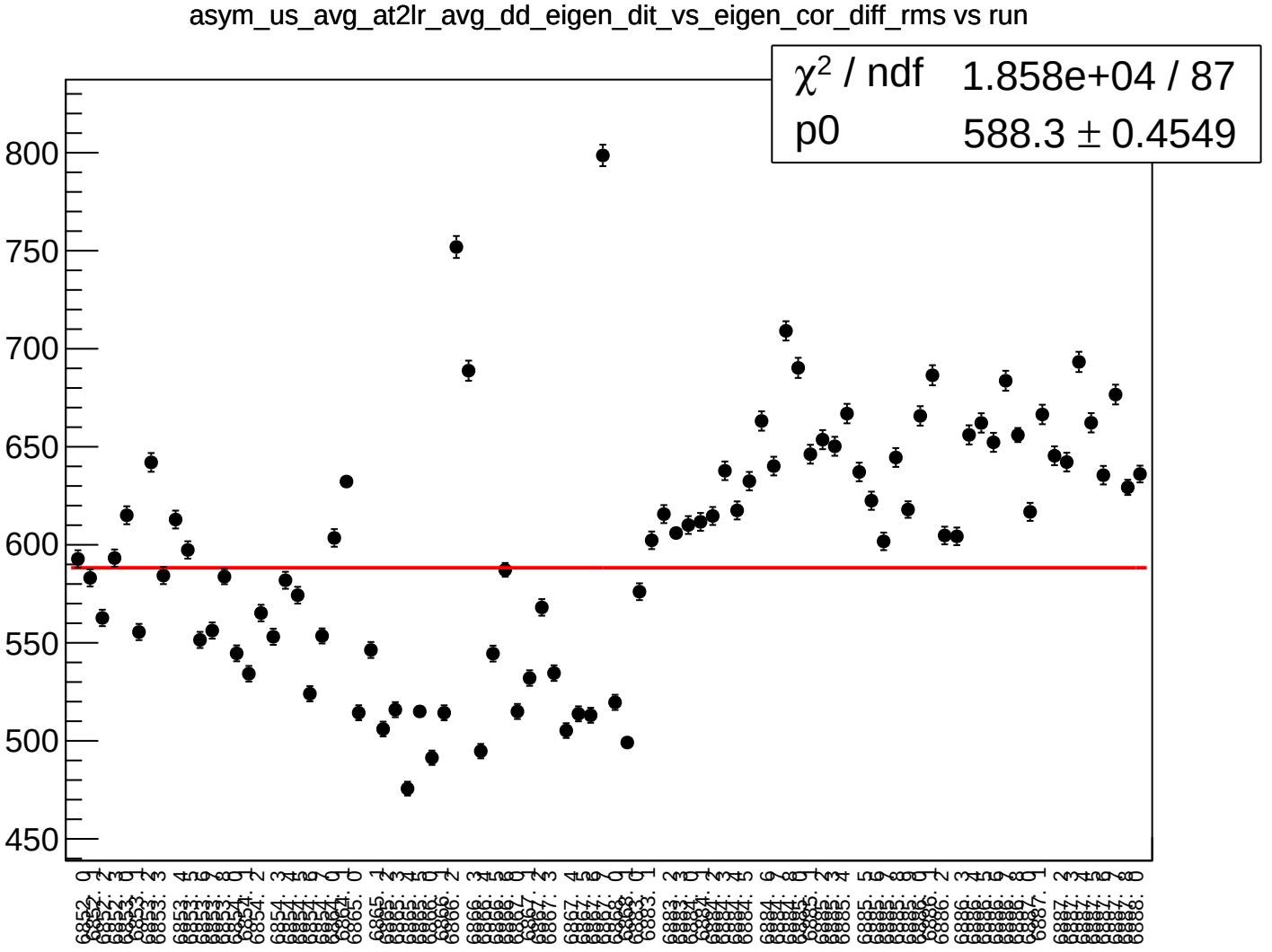

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.21 / 87
p0 0.412 ± 0.6433
pull
Entries 88
Mean −88.45
Std Dev 0

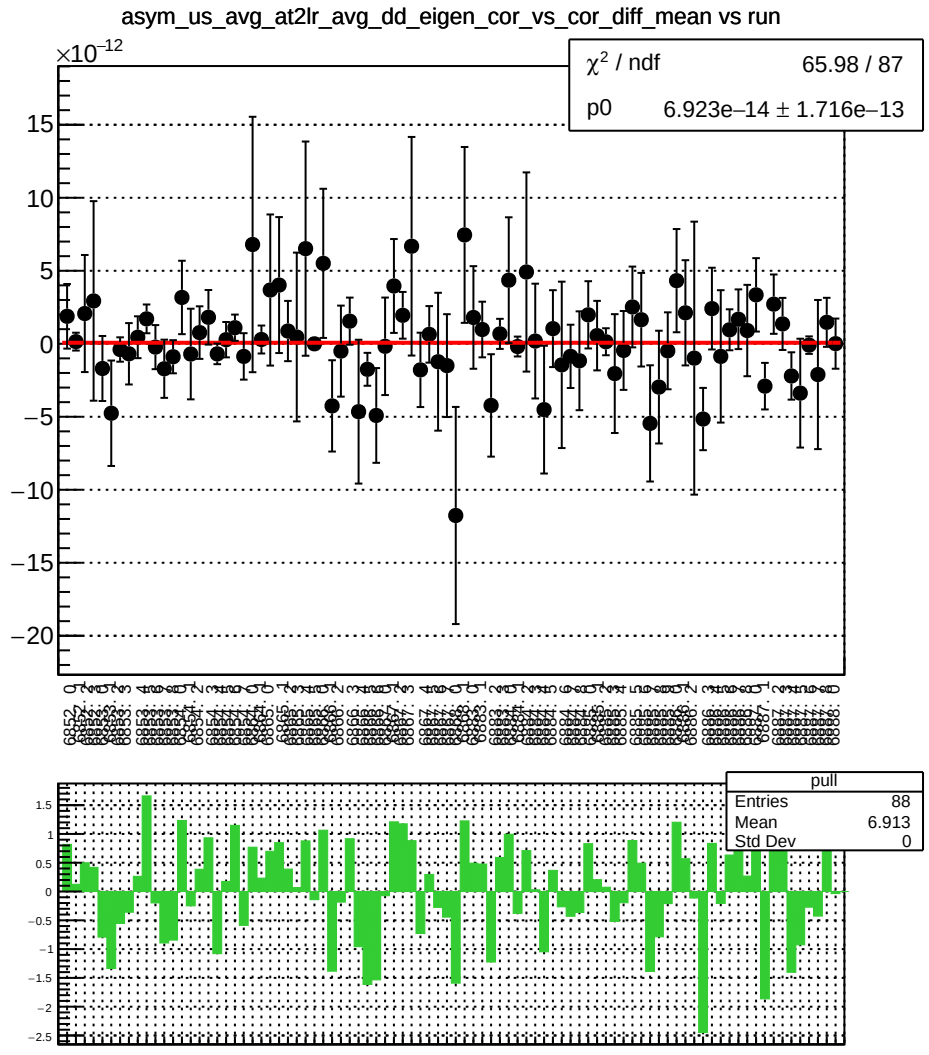

pull1D
Entries 88
Mean −0.002679
Std Dev 0.9183

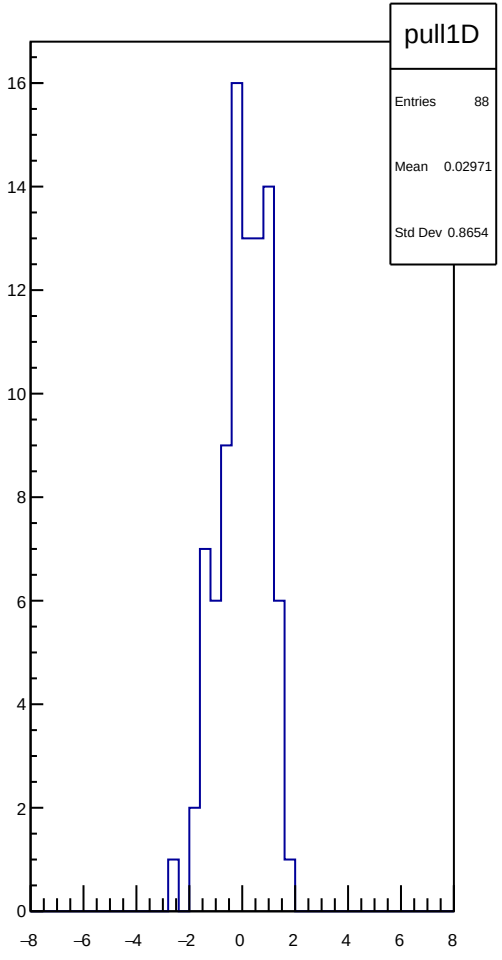

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.858e+04 / 87
p0 588.3 ± 0.4549
800
750
700
650
600
550
500
450

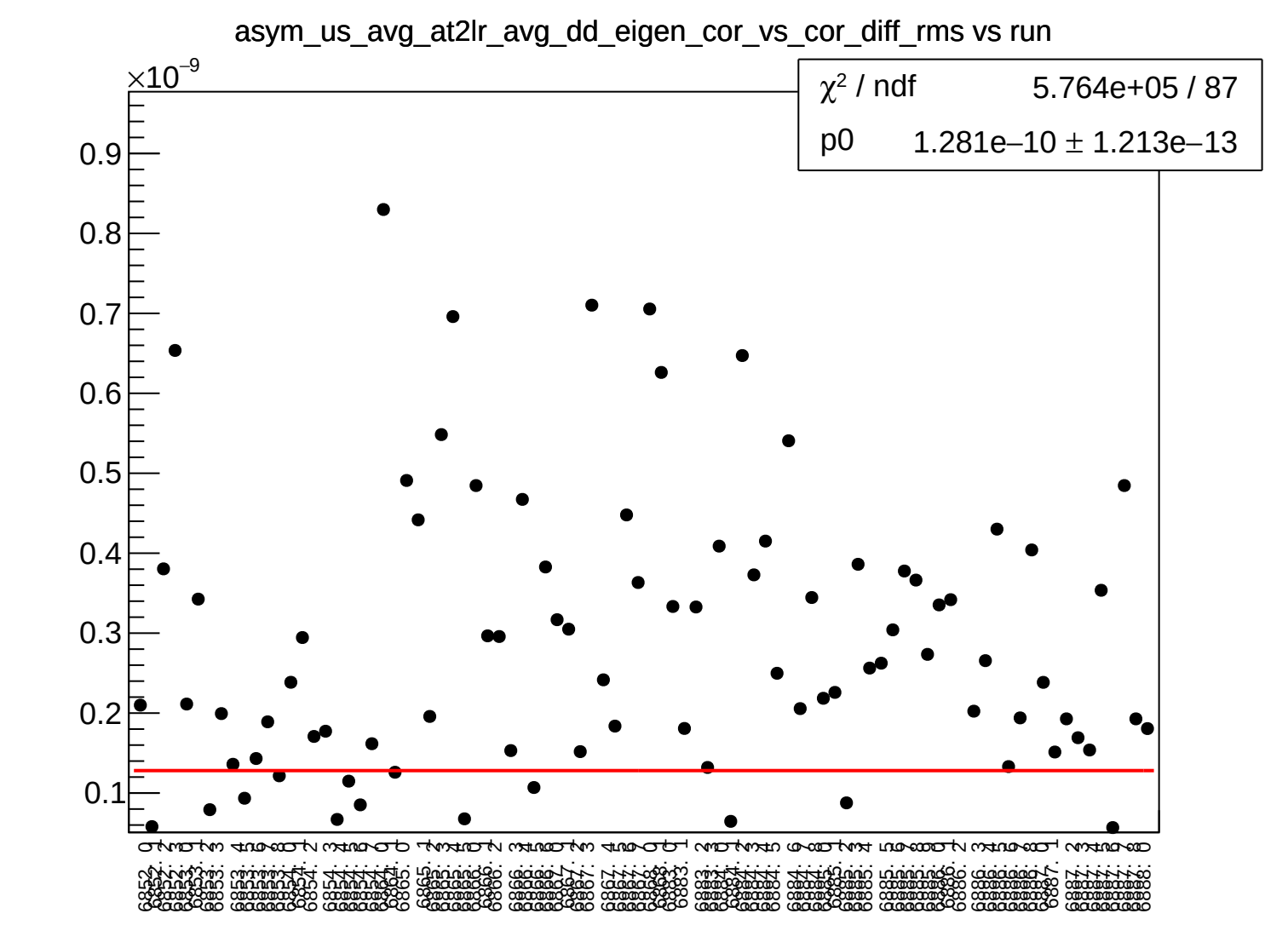

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.21 / 87
p0 0.412 ± 0.6433
pull
Entries 88
Mean −88.45
Std Dev 0

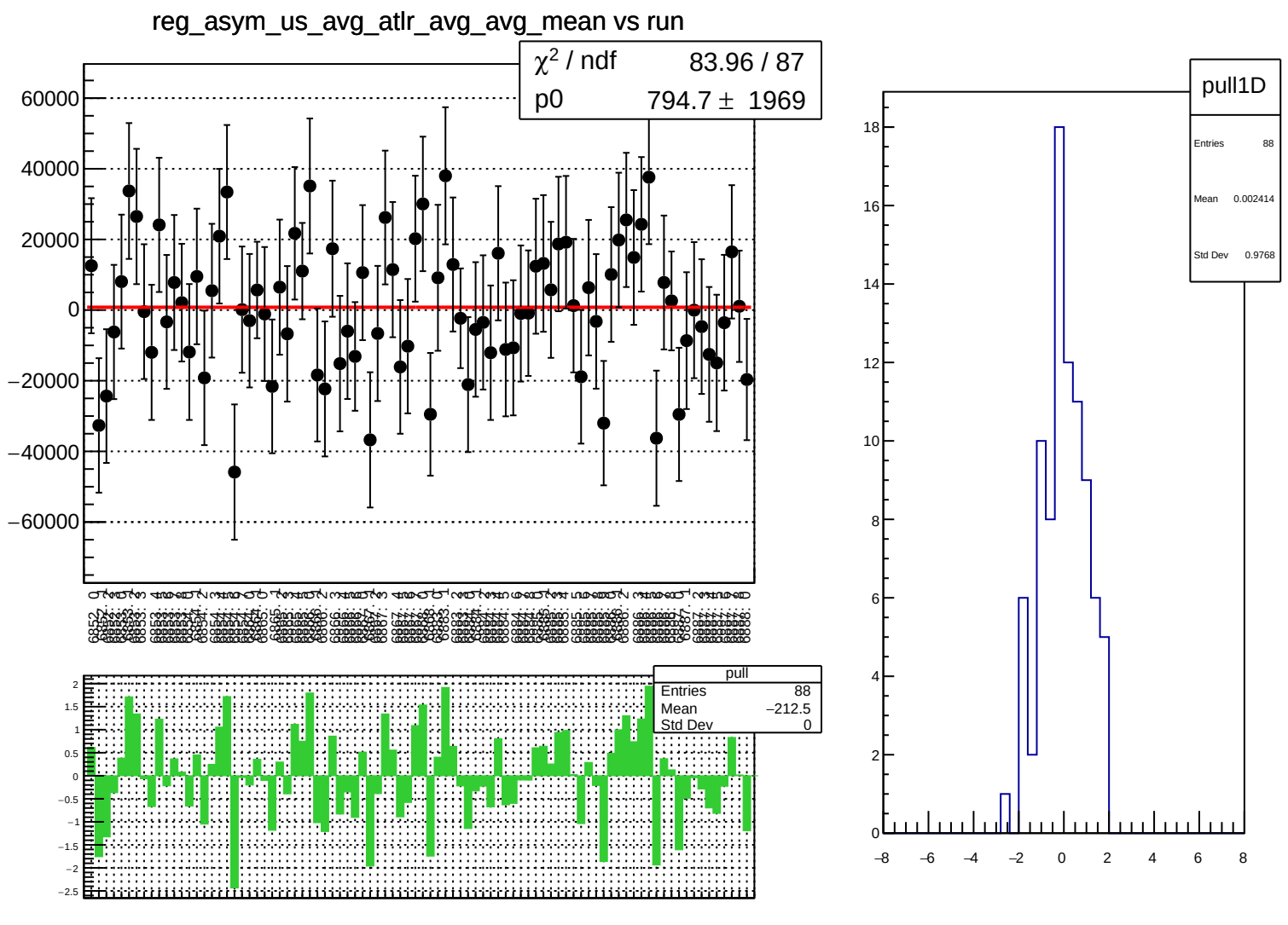

pull1D
Entries 88
Mean −0.002679
Std Dev 0.9183

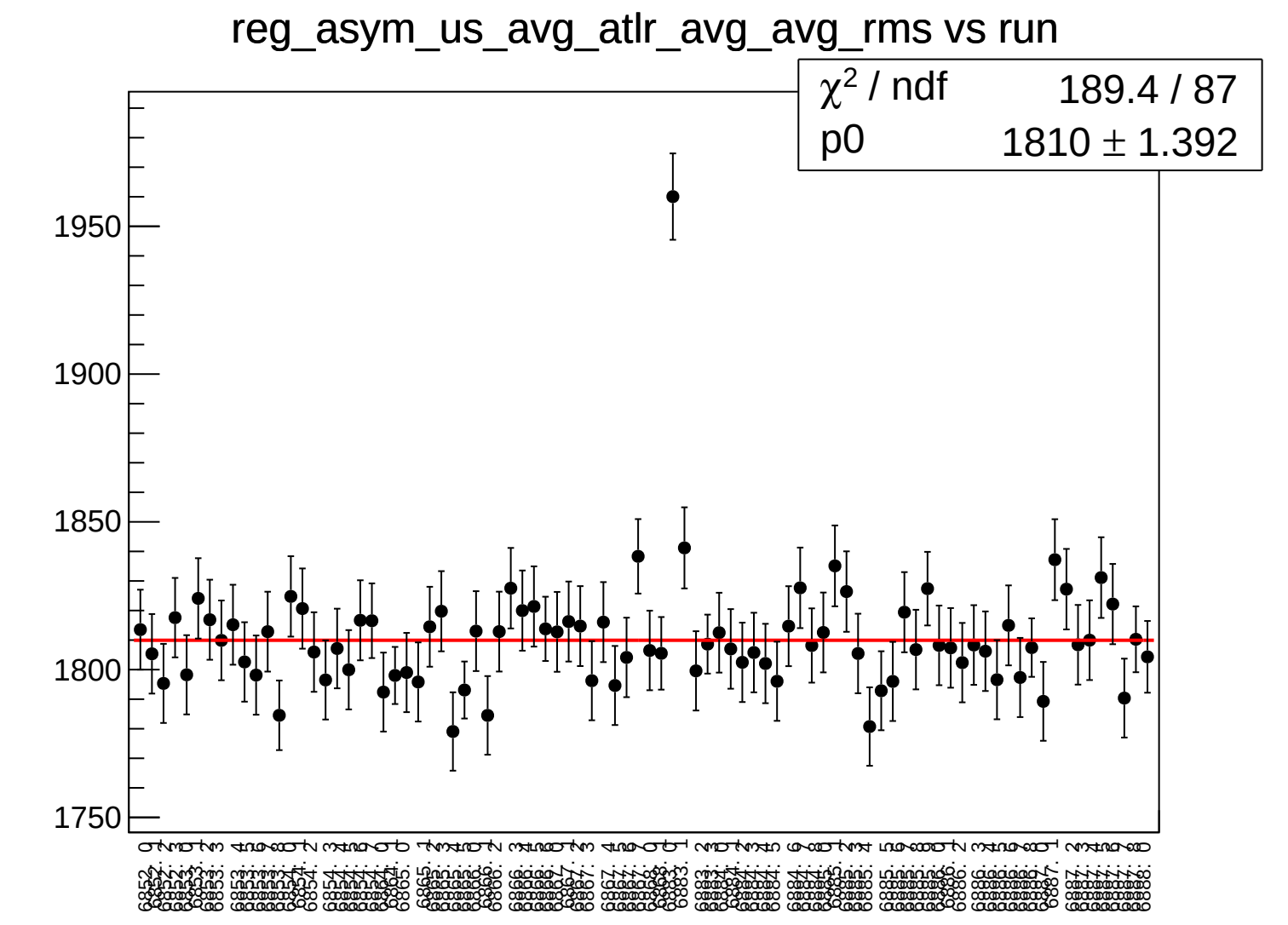

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.858e+04 / 87
p0 588.3 ± 0.4549
800
750
700
650
600
550
500
450

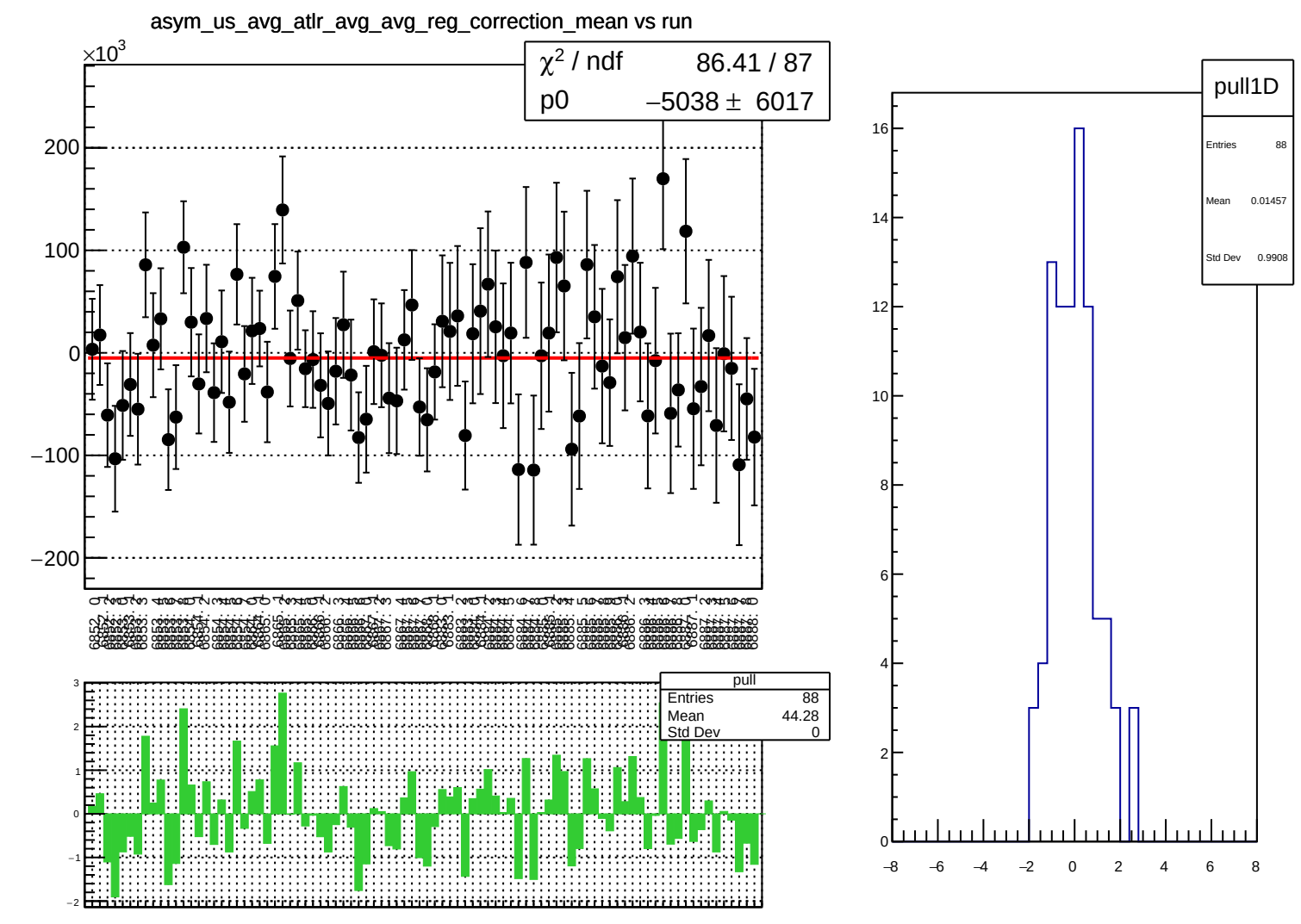

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 65.98 / 87
p0 6.923e−14 ± 1.716e−13
pull
Entries 88
Mean 6.913
Std Dev 0

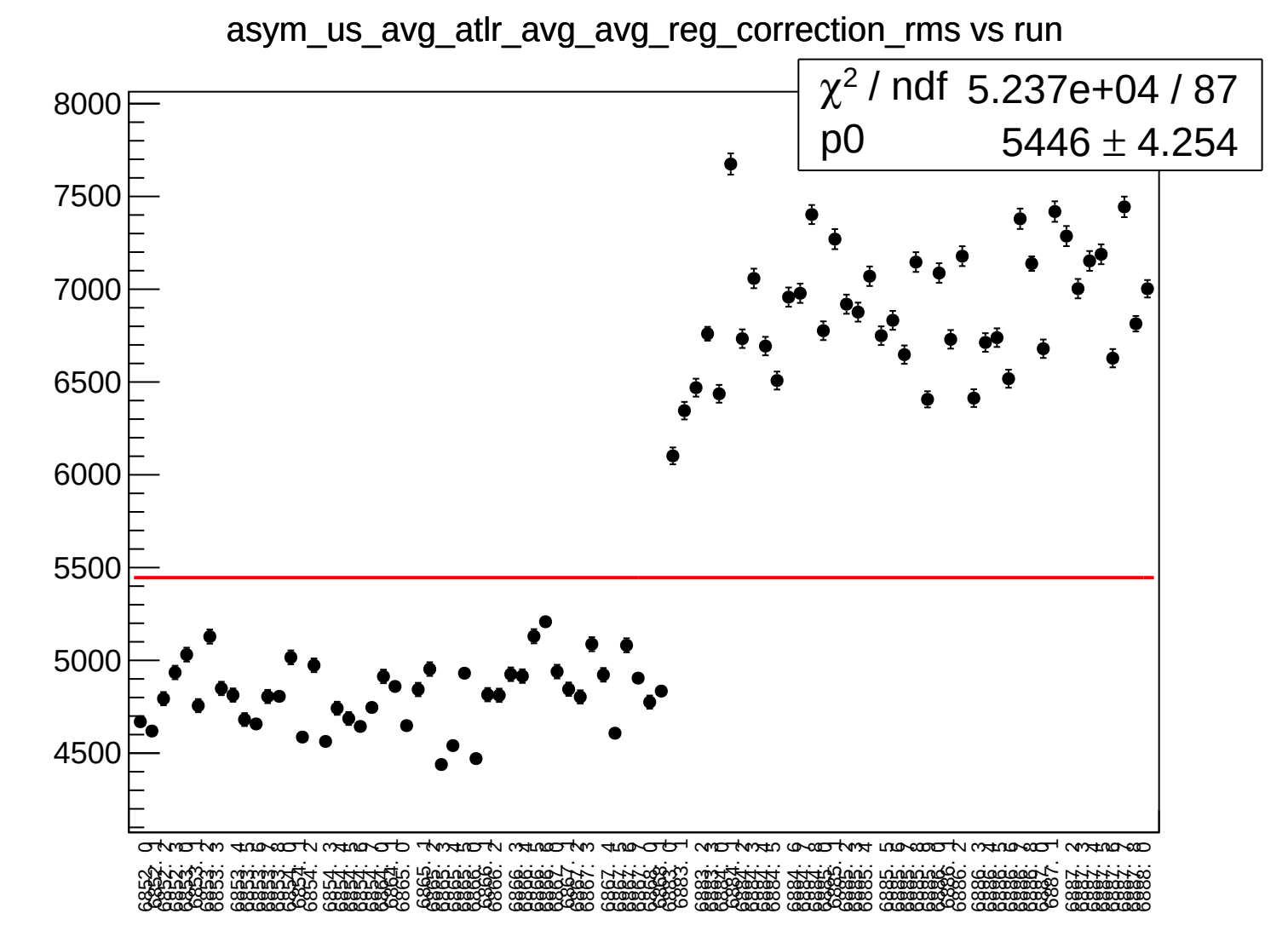

pull1D
Entries 88
Mean 0.02971
Std Dev 0.8654

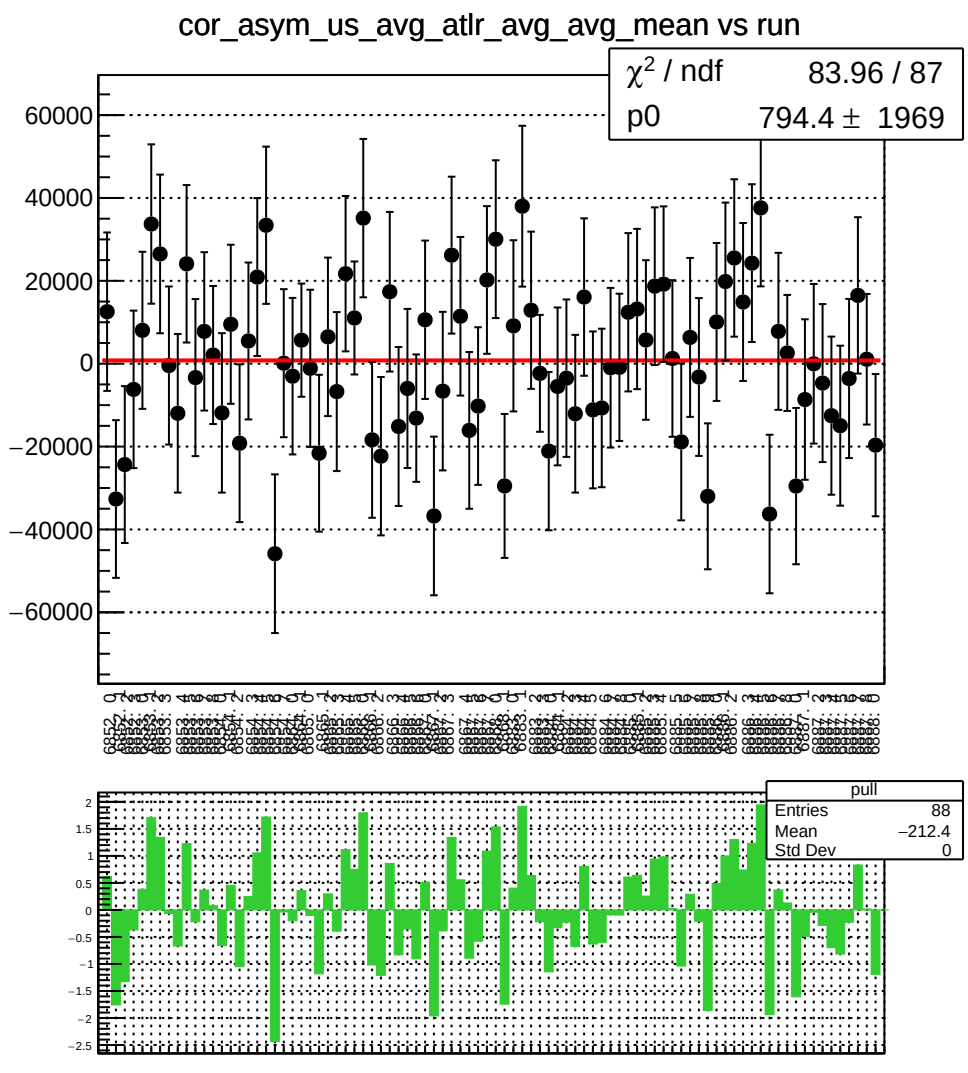

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.764e+05 / 87
p0 1.281e−10 ± 1.213e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

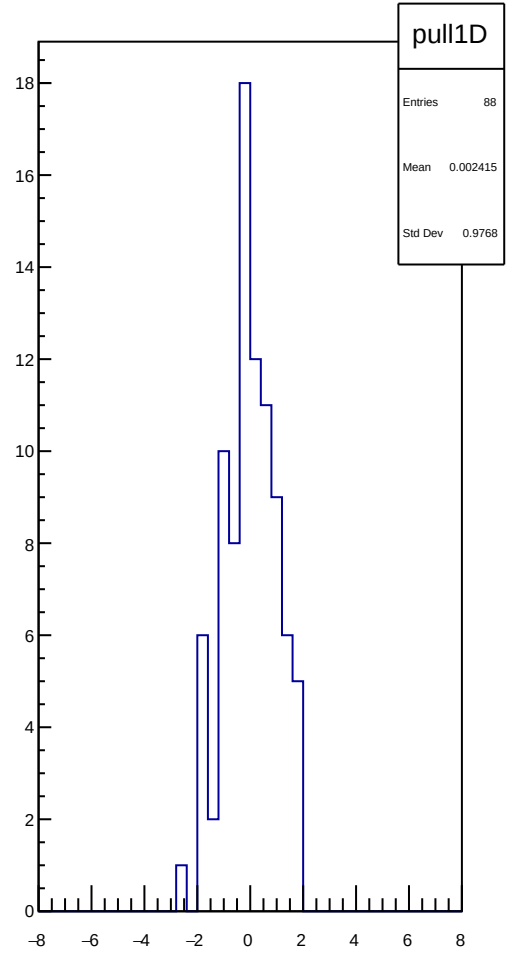

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 83.96 / 87
p0 794.7 ± 1969
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −212.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean 0.002414
Std Dev 0.9768
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

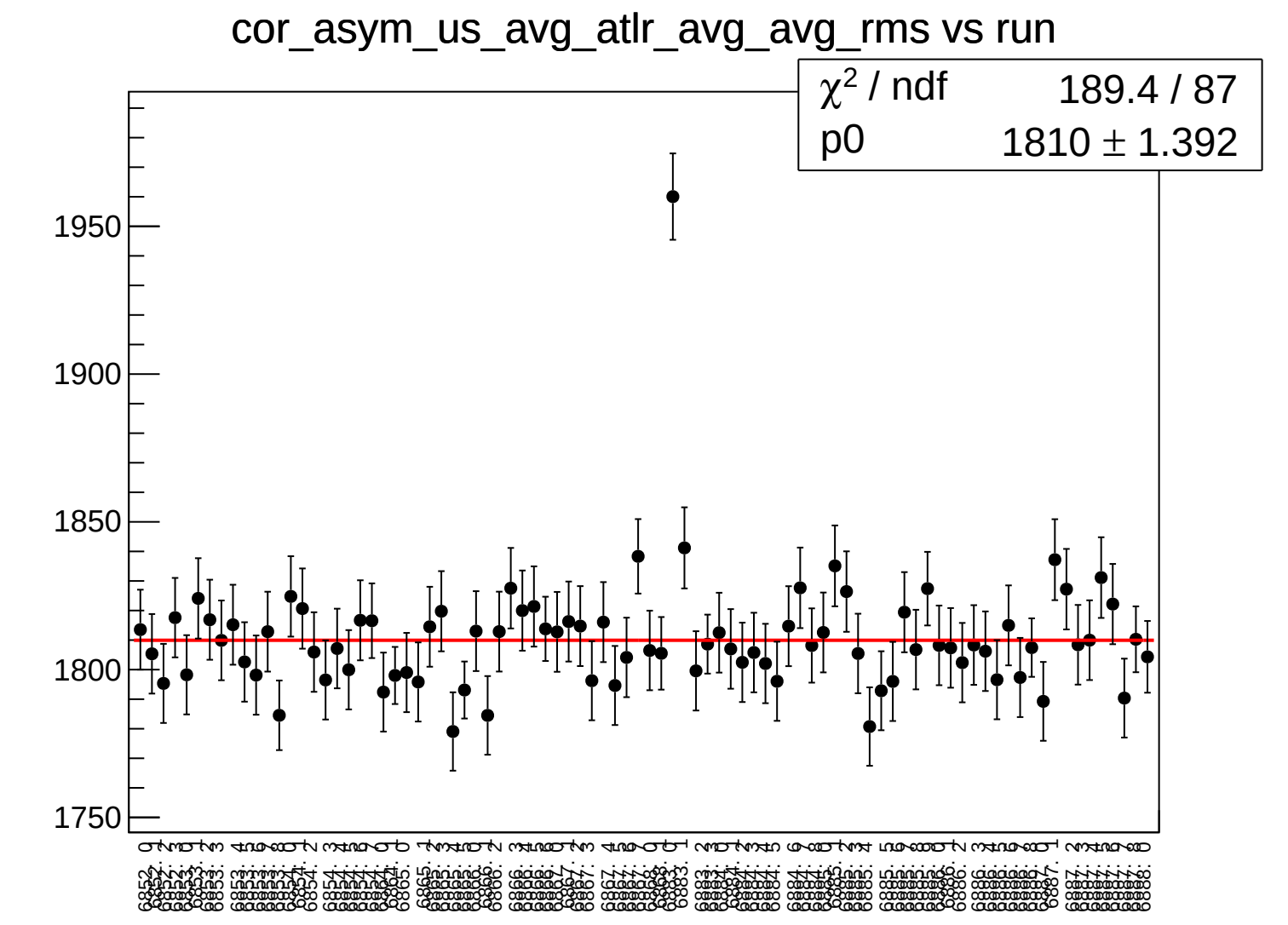

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 189.4 / 87
p0 1810 ± 1.392
1950
1900
1850
1800
1750

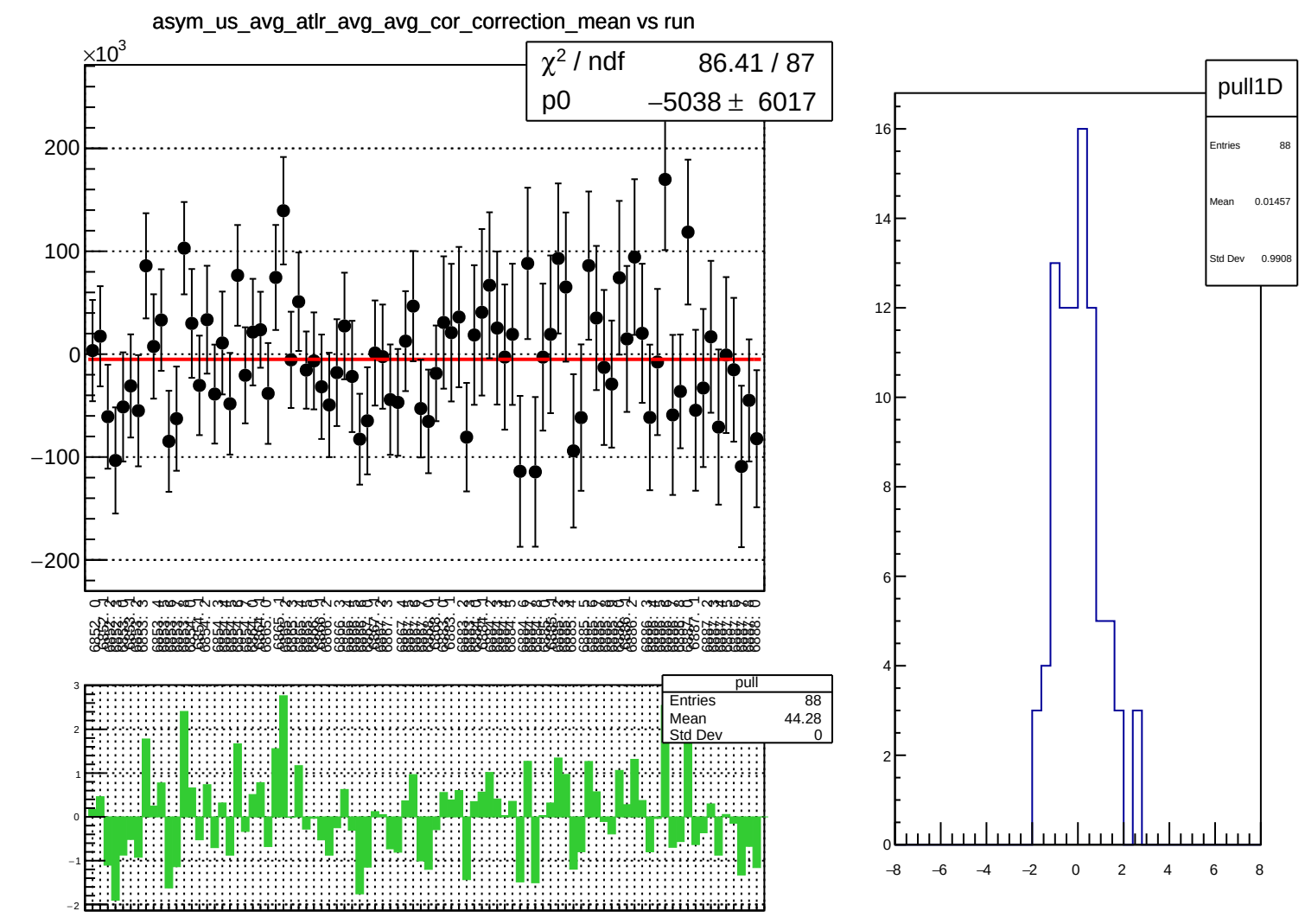

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.41 / 87
p0 −5038 ± 6017
200
100
0
−100
−200
pull
Entries 88
Mean 44.28
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01457
Std Dev 0.9908
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

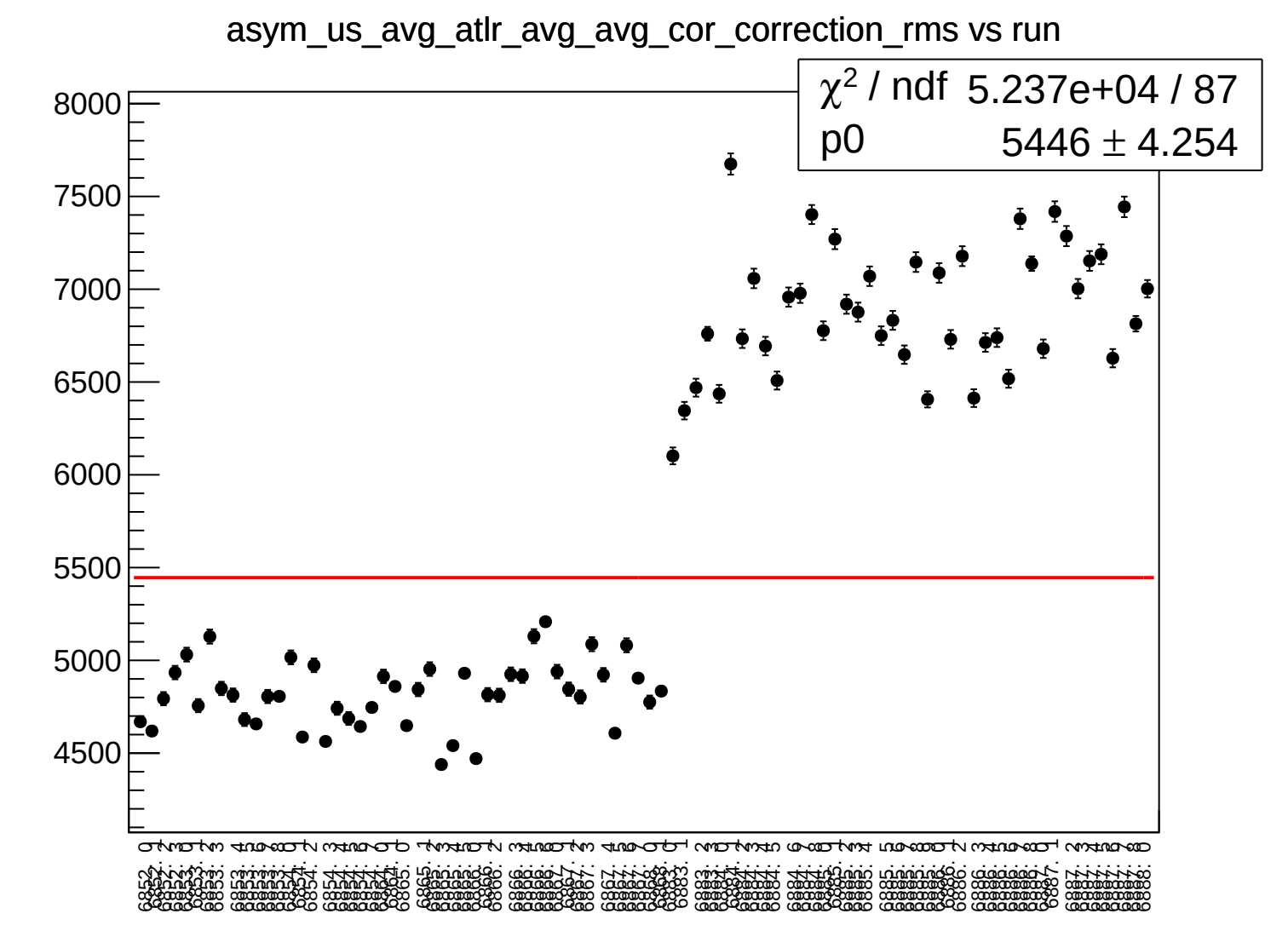

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 5.237e+04 / 87
p0 5446 ± 4.254
8000
7500
7000
6500
6000
5500
5000
4500

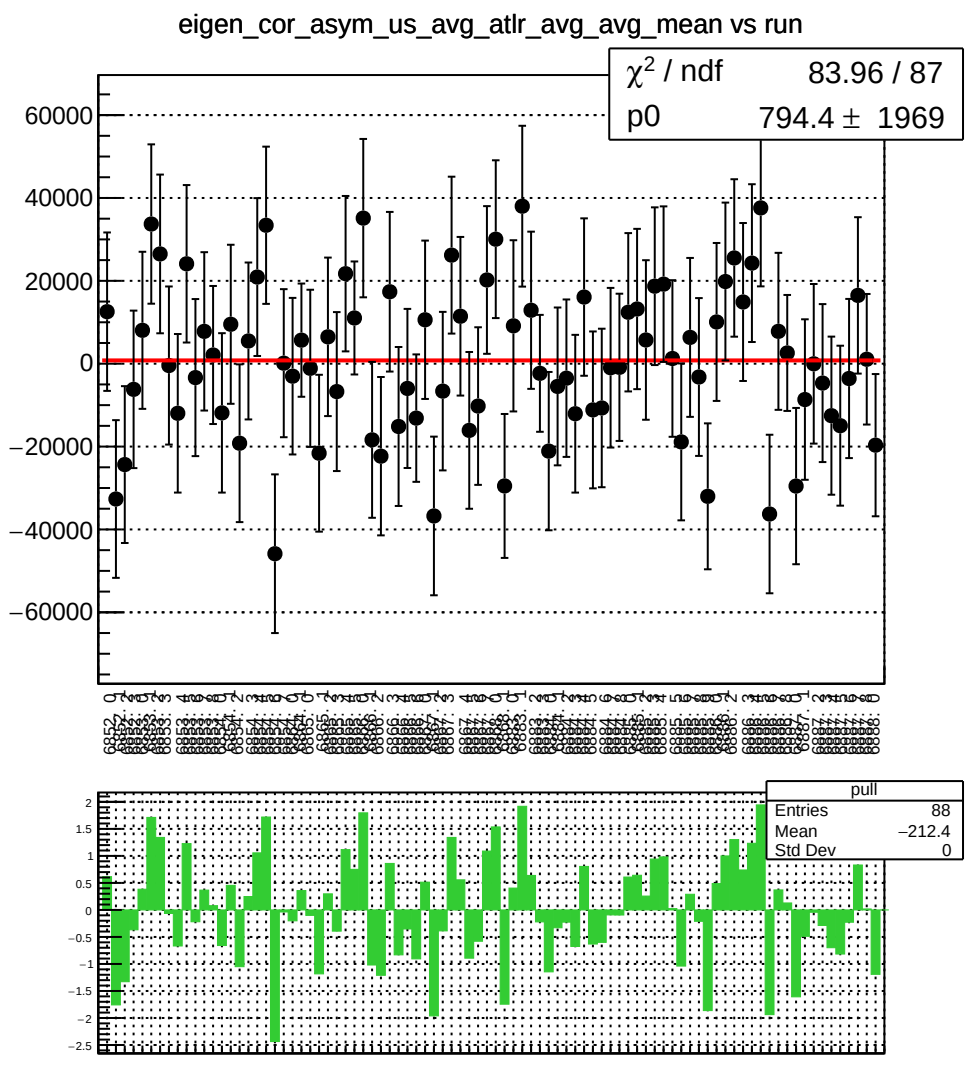

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 83.96 / 87
p0 794.4 ± 1969
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −212.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

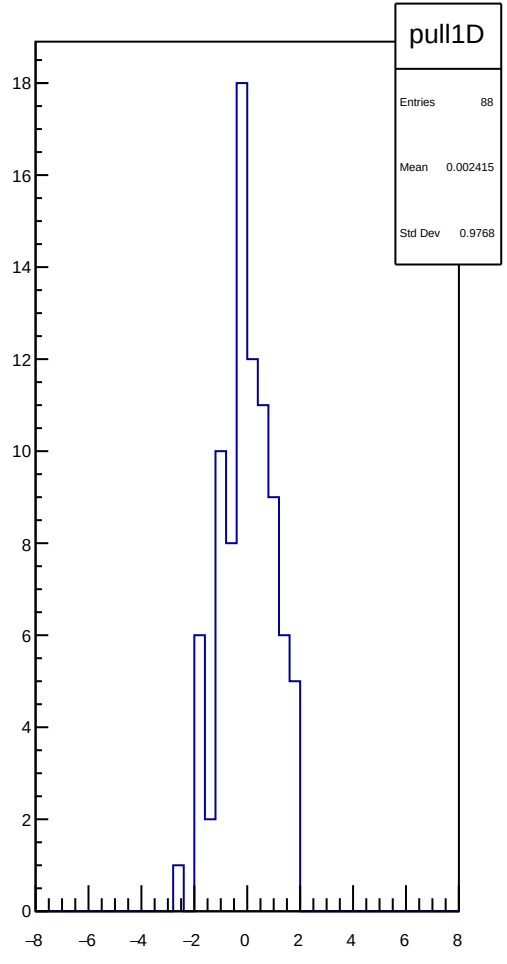

pull1D
Entries 88
Mean 0.002415
Std Dev 0.9768
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

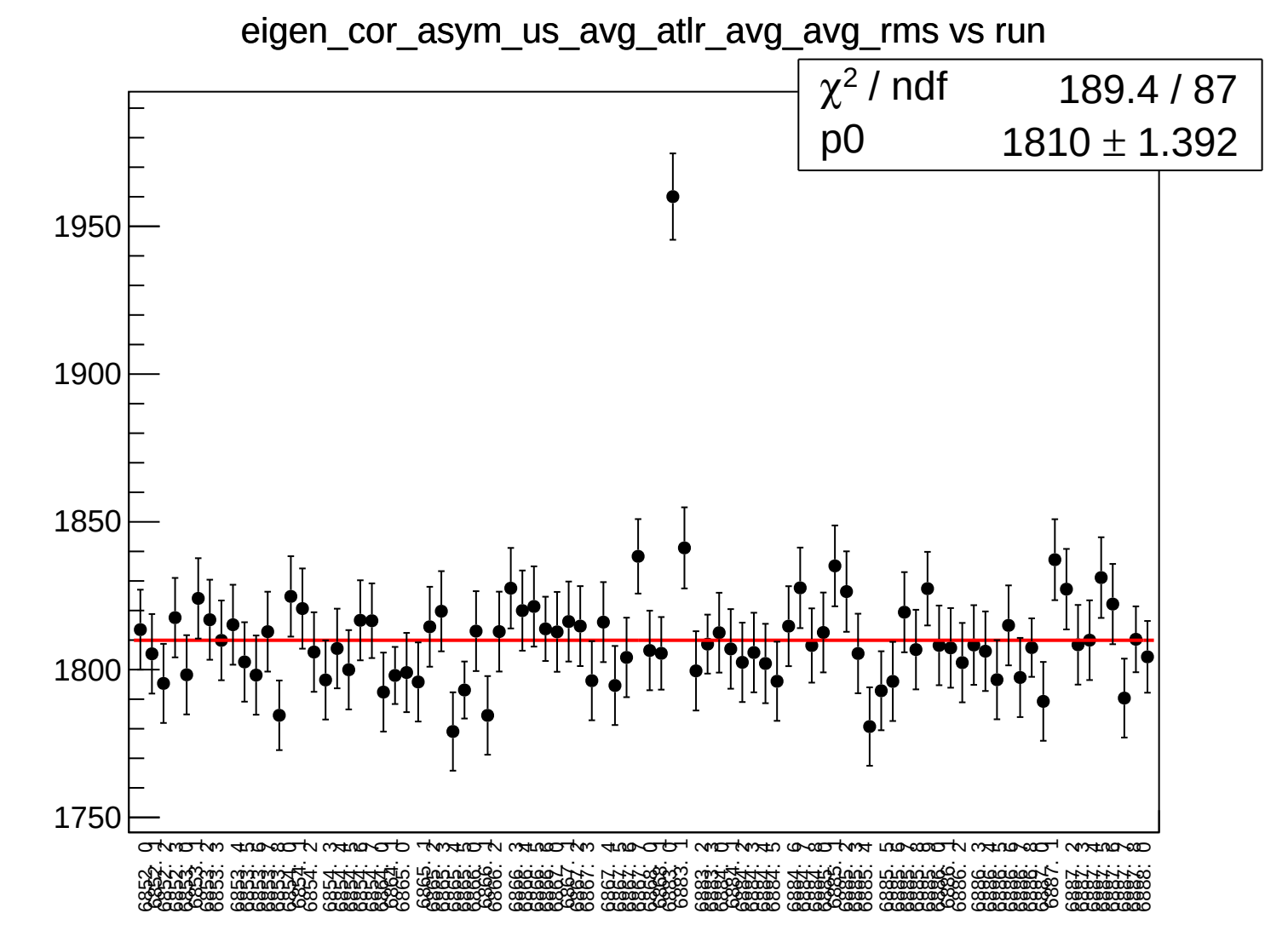

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 189.4 / 87
p0 1810 ± 1.392
1950
1900
1850
1800
1750

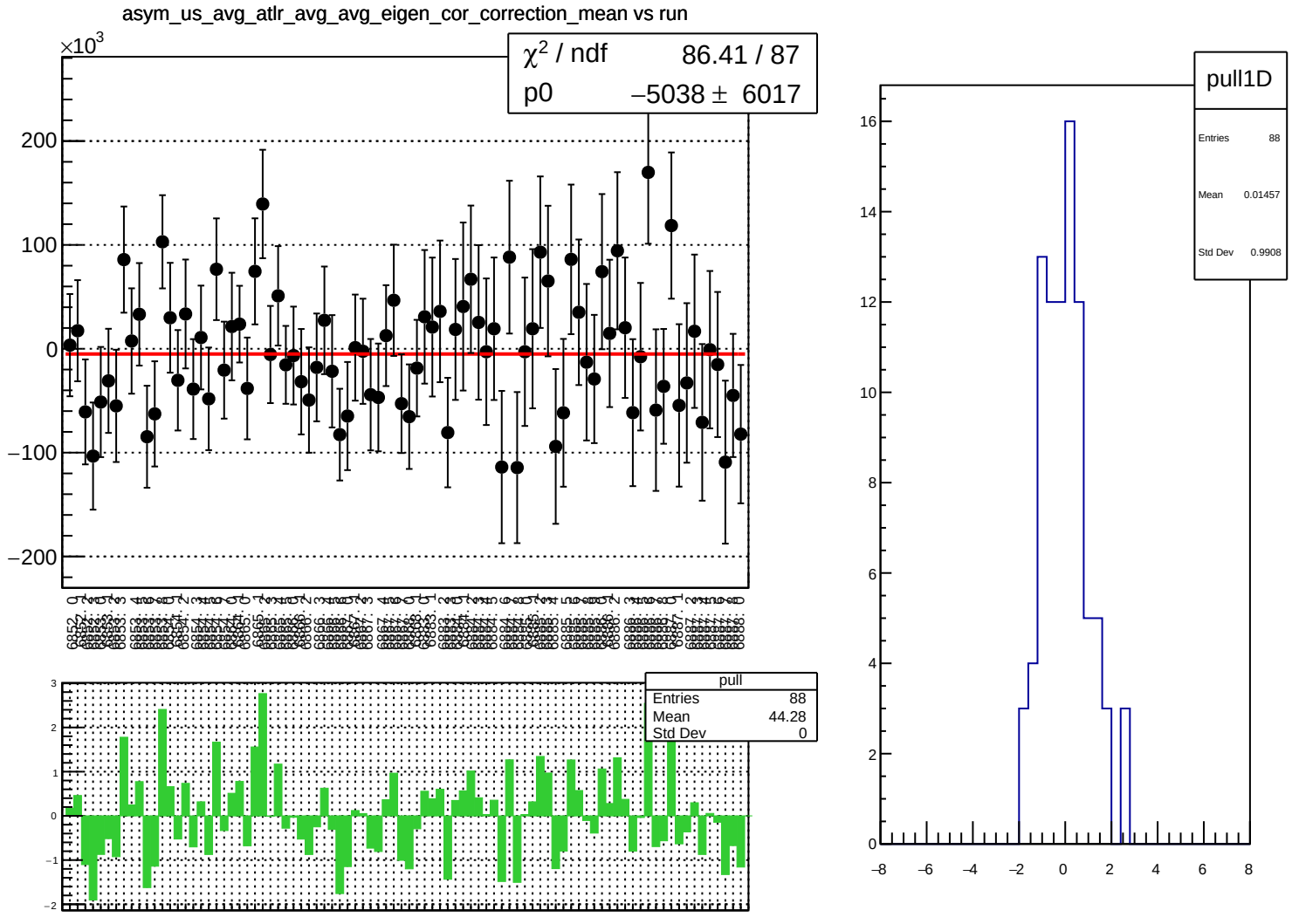

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.41 / 87
p0 −5038 ± 6017
200
100
0
−100
−200
pull
Entries 88
Mean 44.28
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01457
Std Dev 0.9908
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

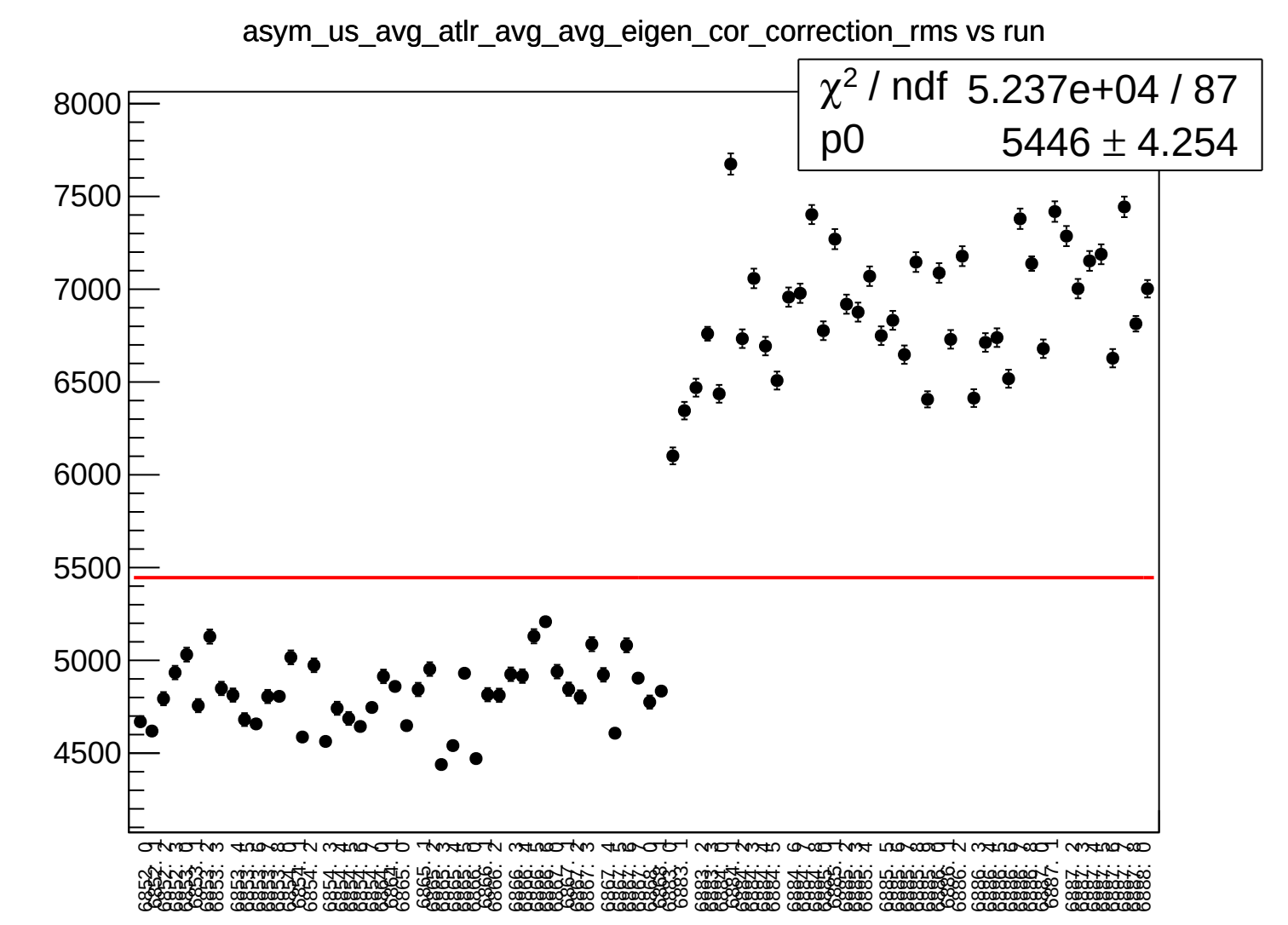

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 5.237e+04 / 87
p0 5446 ± 4.254
8000
7500
7000
6500
6000
5500
5000
4500

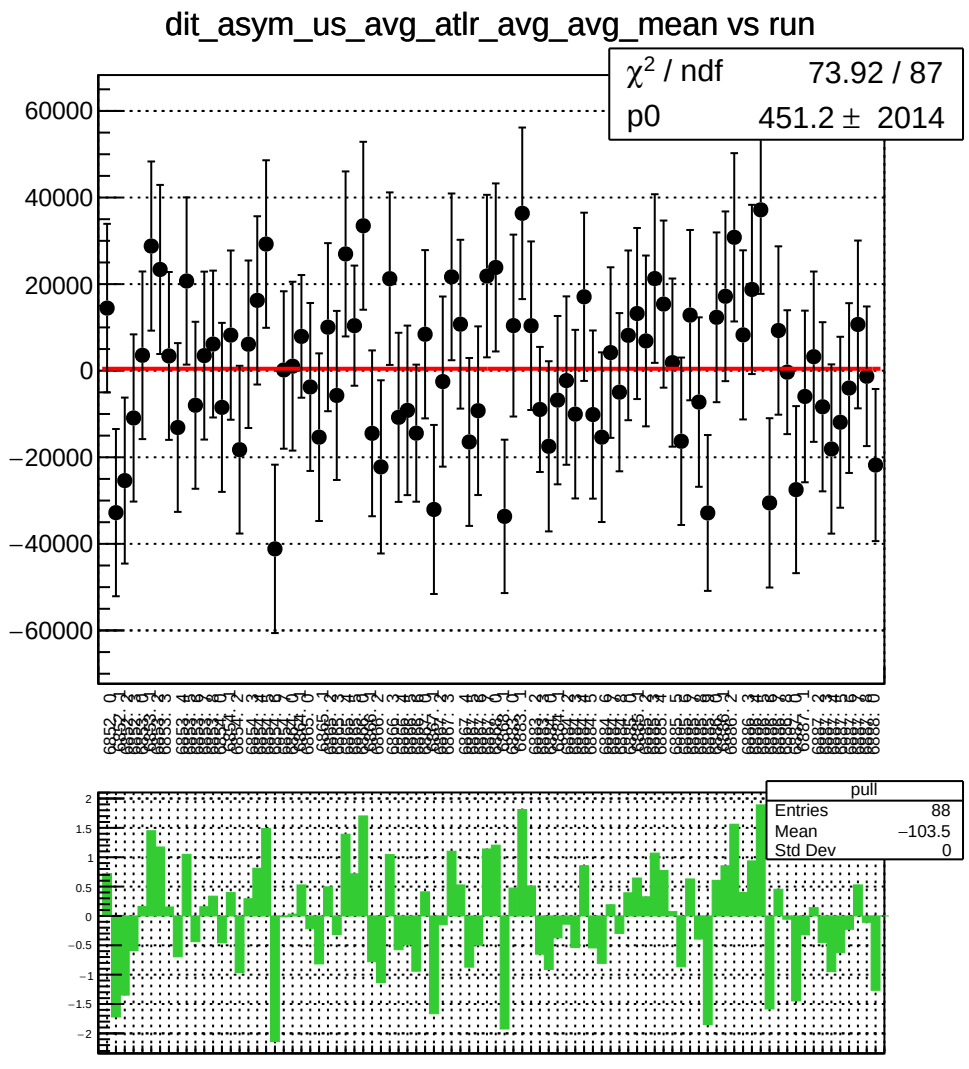

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 83.96 / 87
p0 794.4 ± 1969
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −212.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

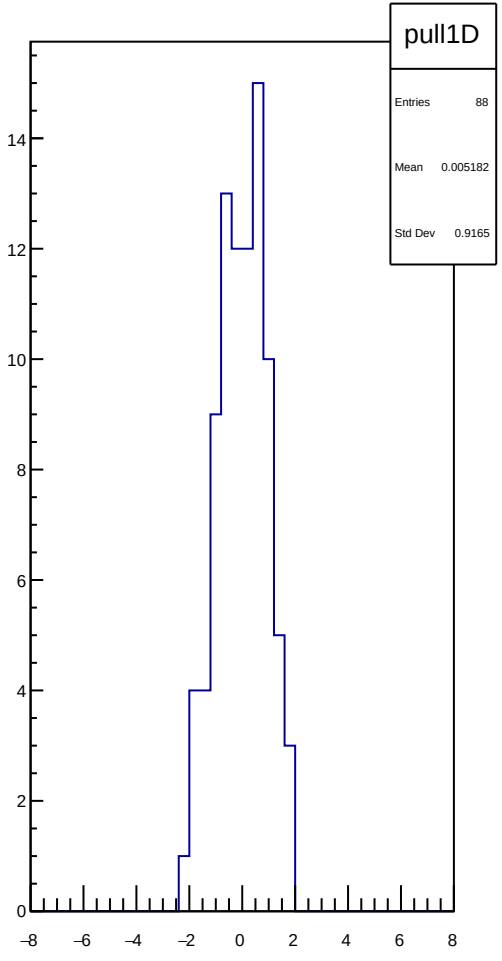

pull1D
Entries 88
Mean 0.002415
Std Dev 0.9768
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

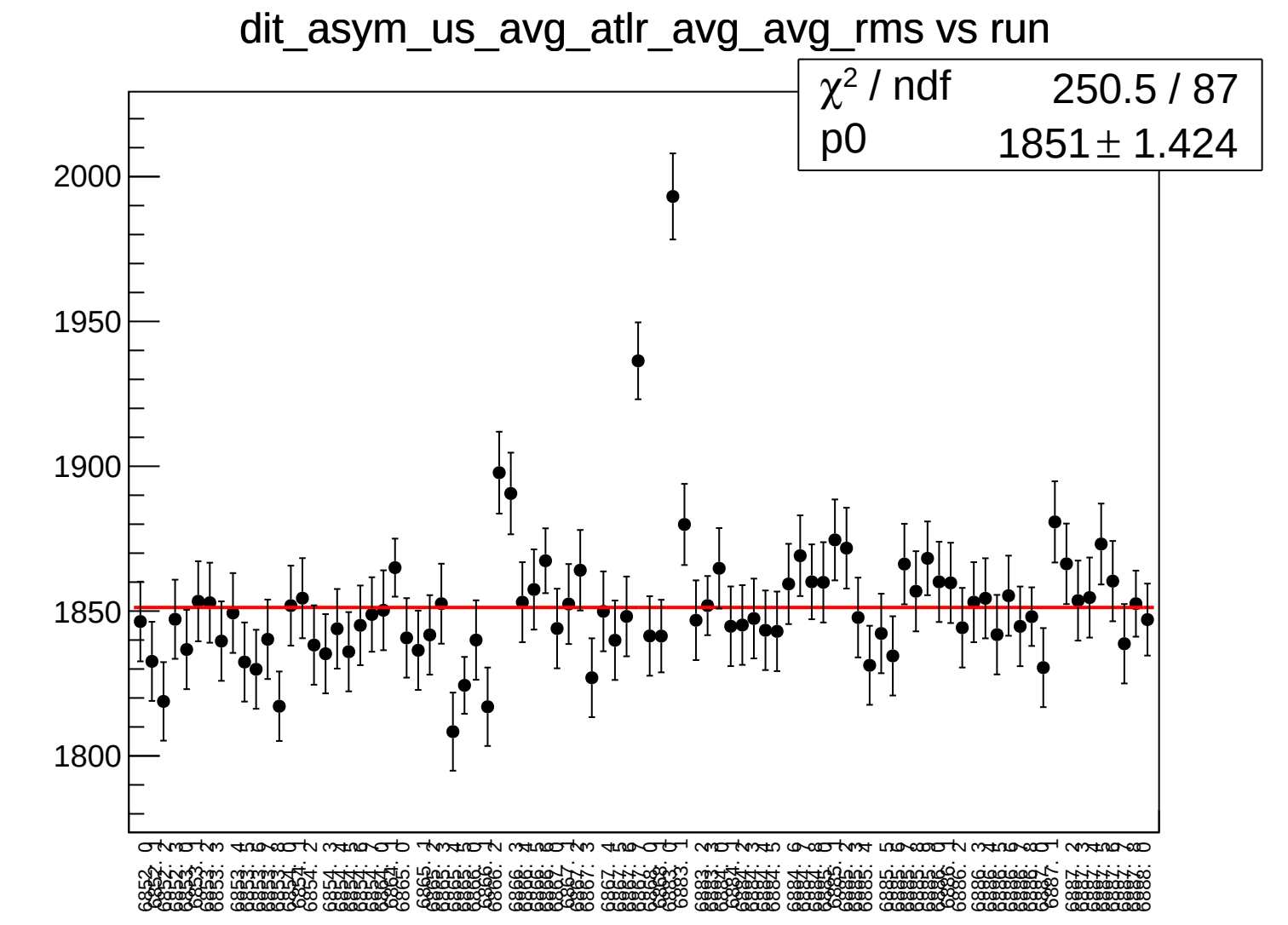

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 189.4 / 87
p0 1810 ± 1.392
1950
1900
1850
1800
1750

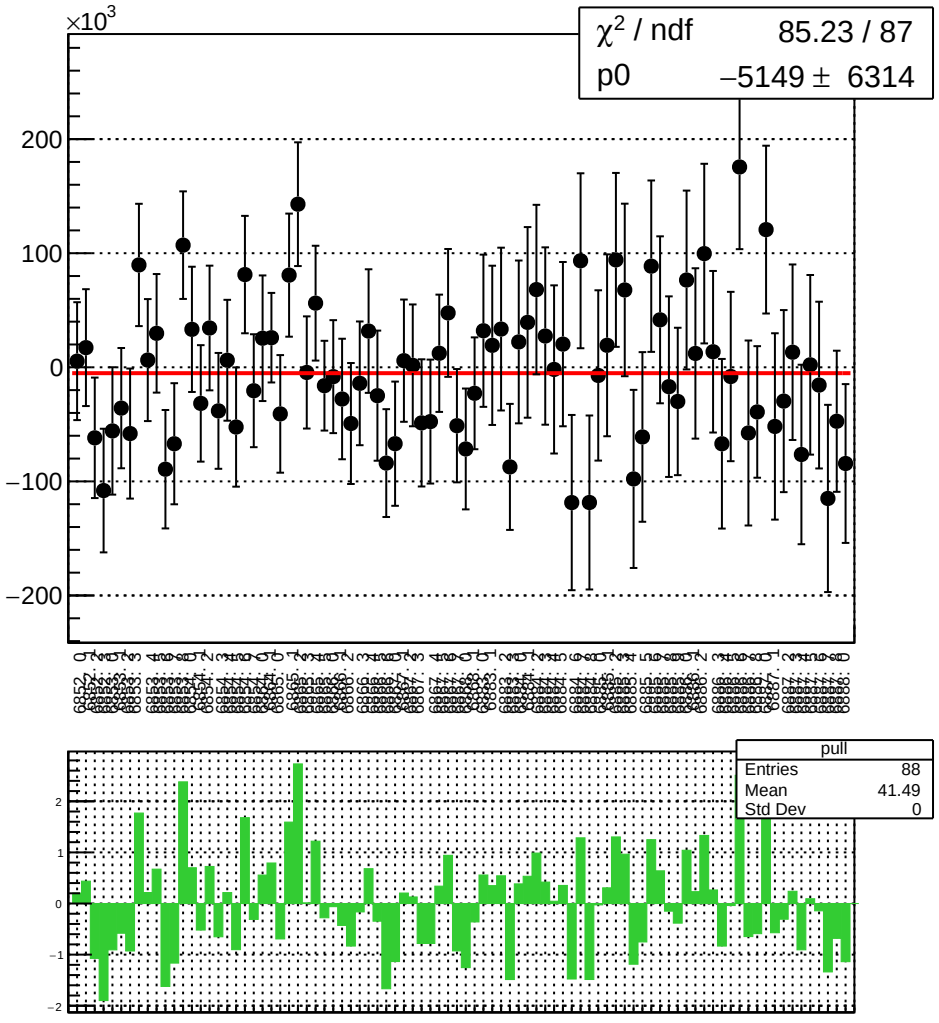

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.41 / 87
p0 −5038 ± 6017
200
100
0
−100
−200
pull
Entries 88
Mean 44.28
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01457
Std Dev 0.9908
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

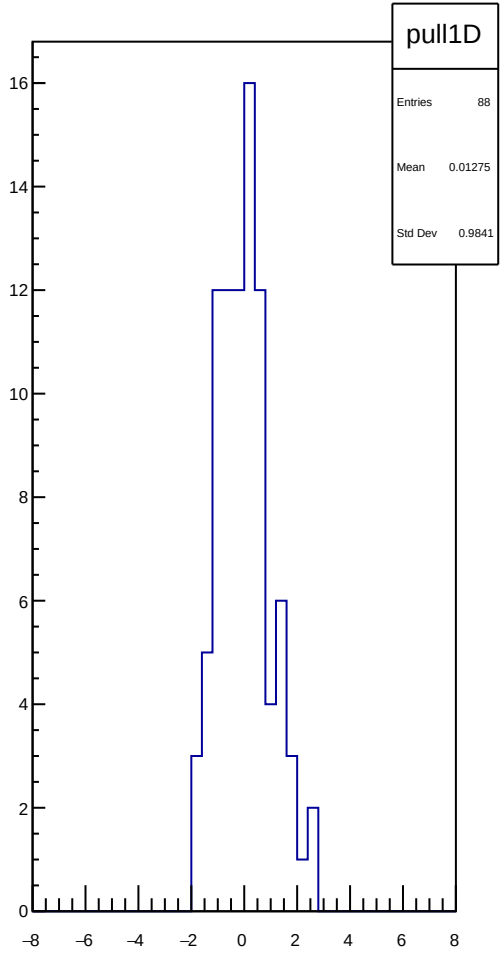

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.237e+04 / 87
p0 5446 ± 4.254
8000
7500
7000
6500
6000
5500
5000
4500

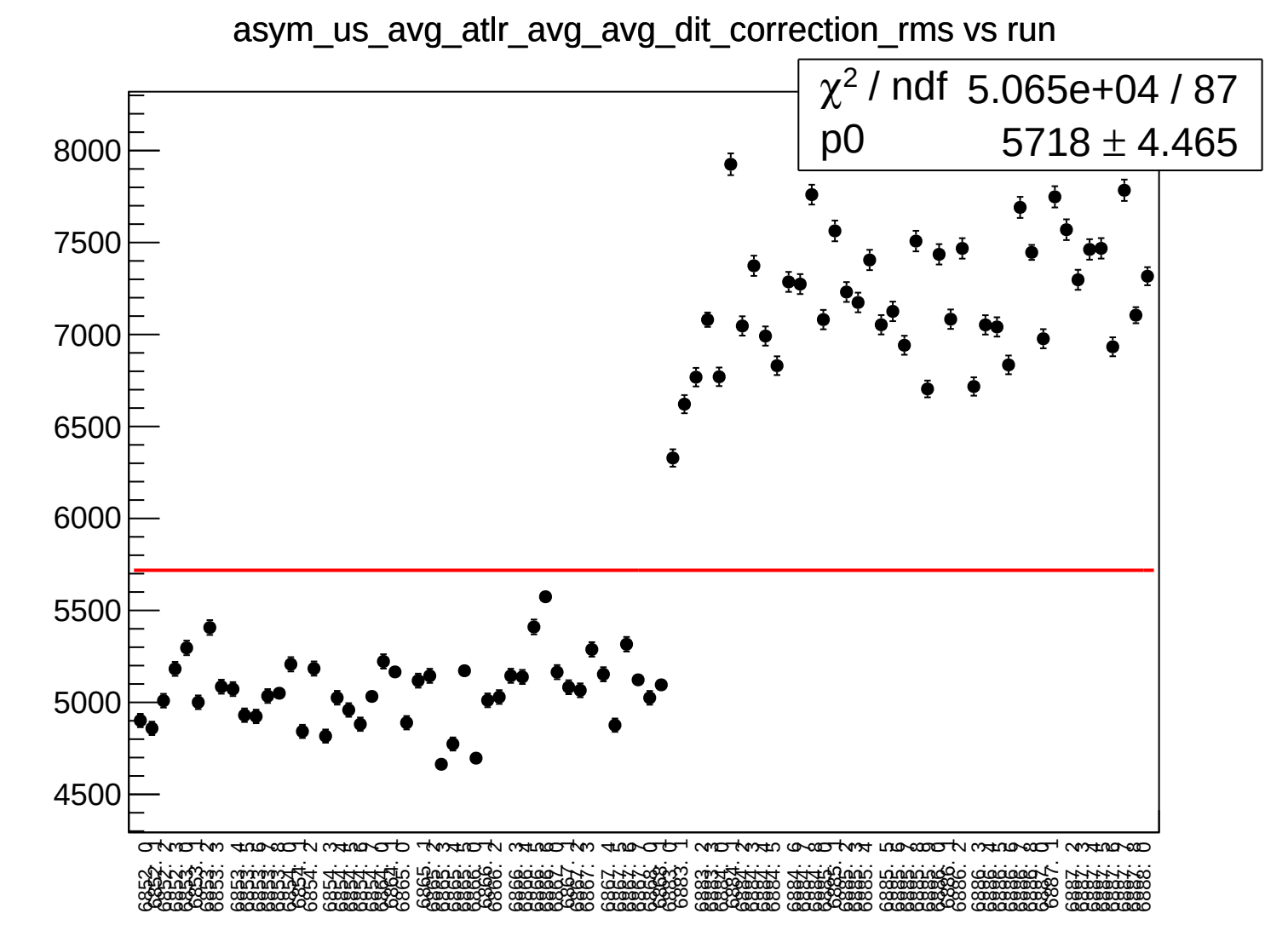

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 73.92 / 87
p0 451.2 ± 2014
pull
Entries 88
Mean −103.5
Std Dev 0

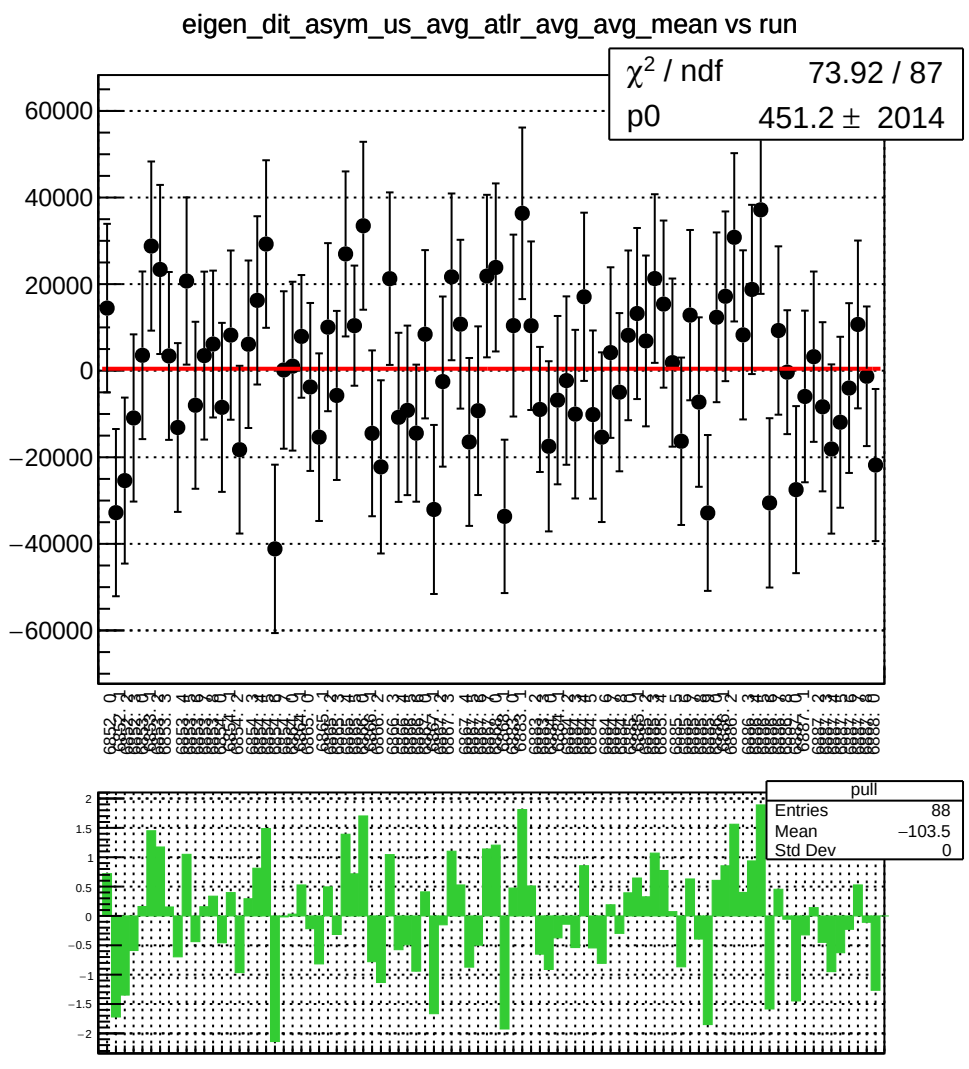

pull1D
Entries 88
Mean 0.005182
Std Dev 0.9165

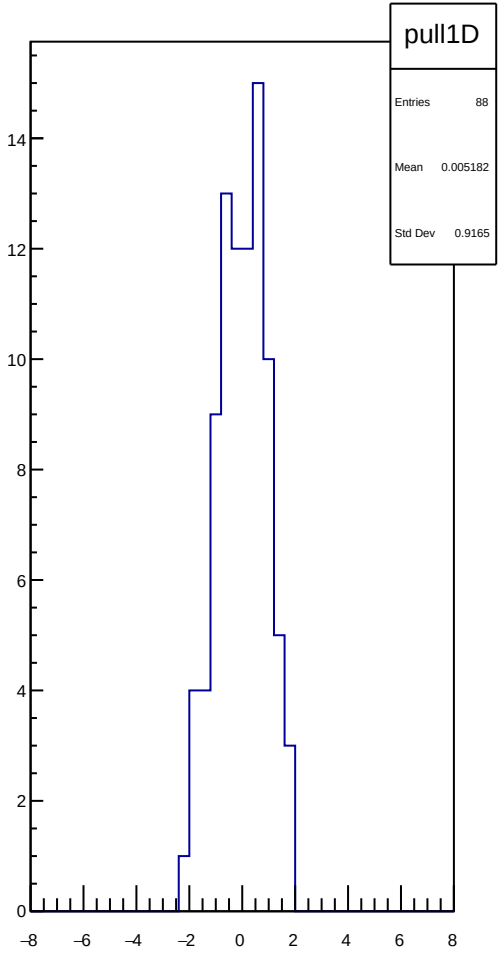

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 250.5 / 87
p0 1851 ± 1.424
2000
1950
1900
1850
1800

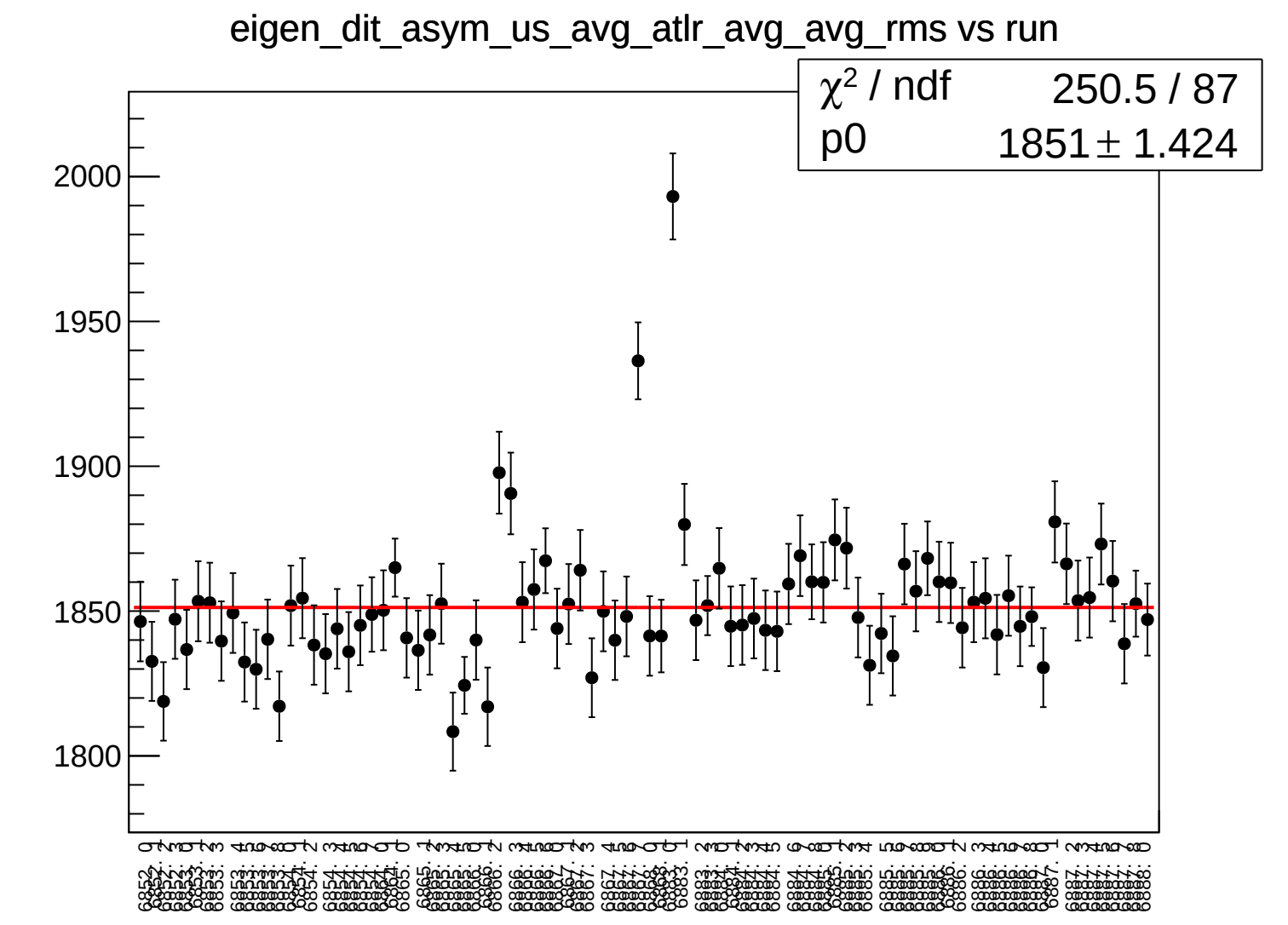

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 85.23 / 87
p0 −5149 ± 6314
200
100
0
−100
−200
pull
Entries 88
Mean 41.49
Std Dev 0
2
1
0
−1
−2

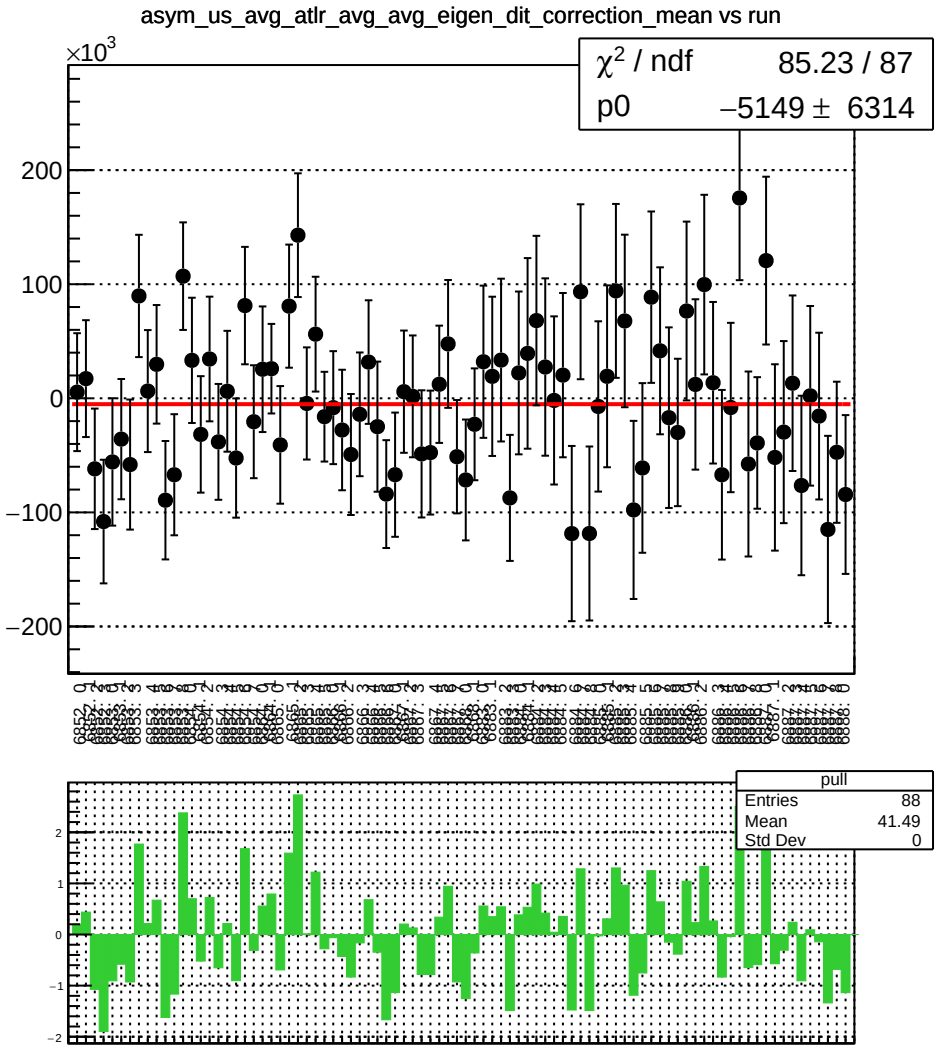

pull1D
Entries 88
Mean 0.01275
Std Dev 0.9841
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

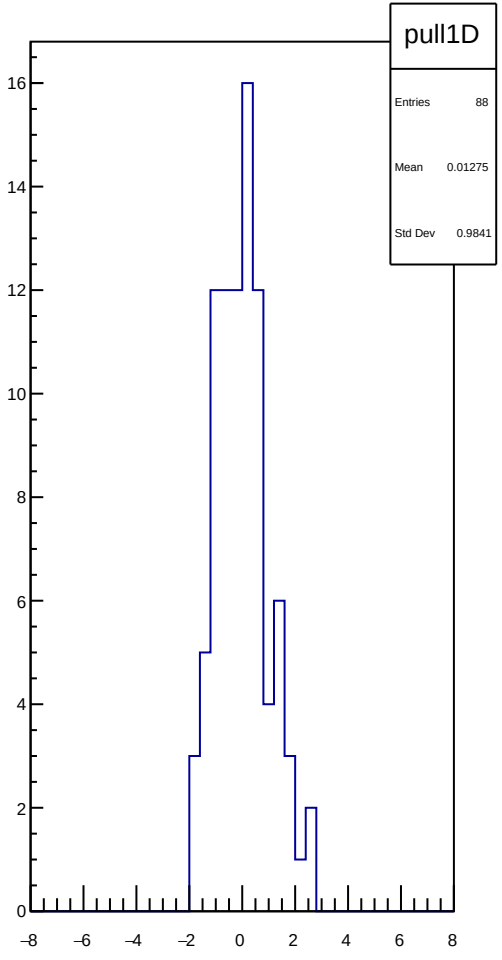

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 5.065e+04 / 87
p0 5718 ± 4.465
8000
7500
7000
6500
6000
5500
5000
4500

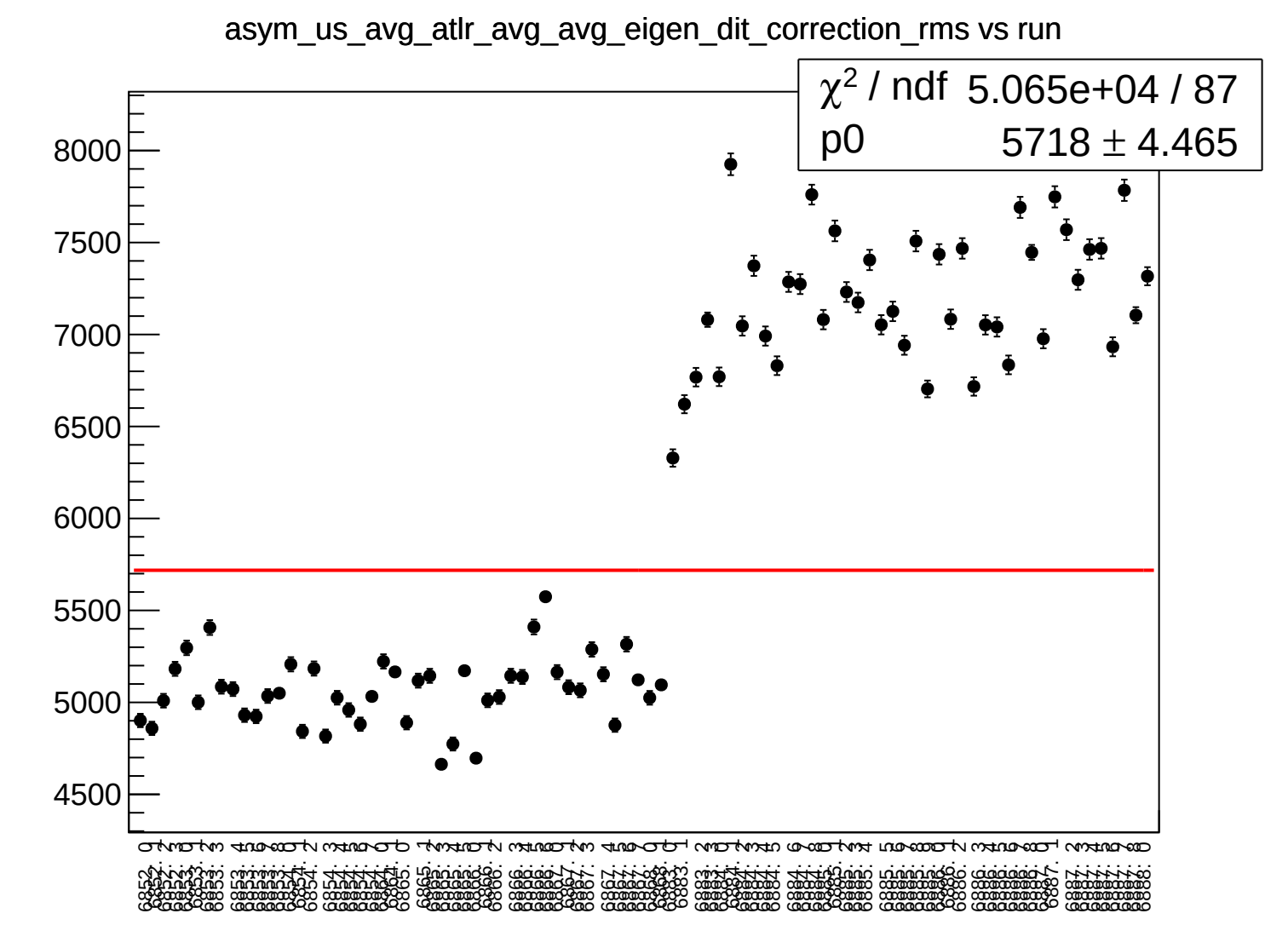

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 73.92 / 87
p0 451.2 ± 2014
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −103.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

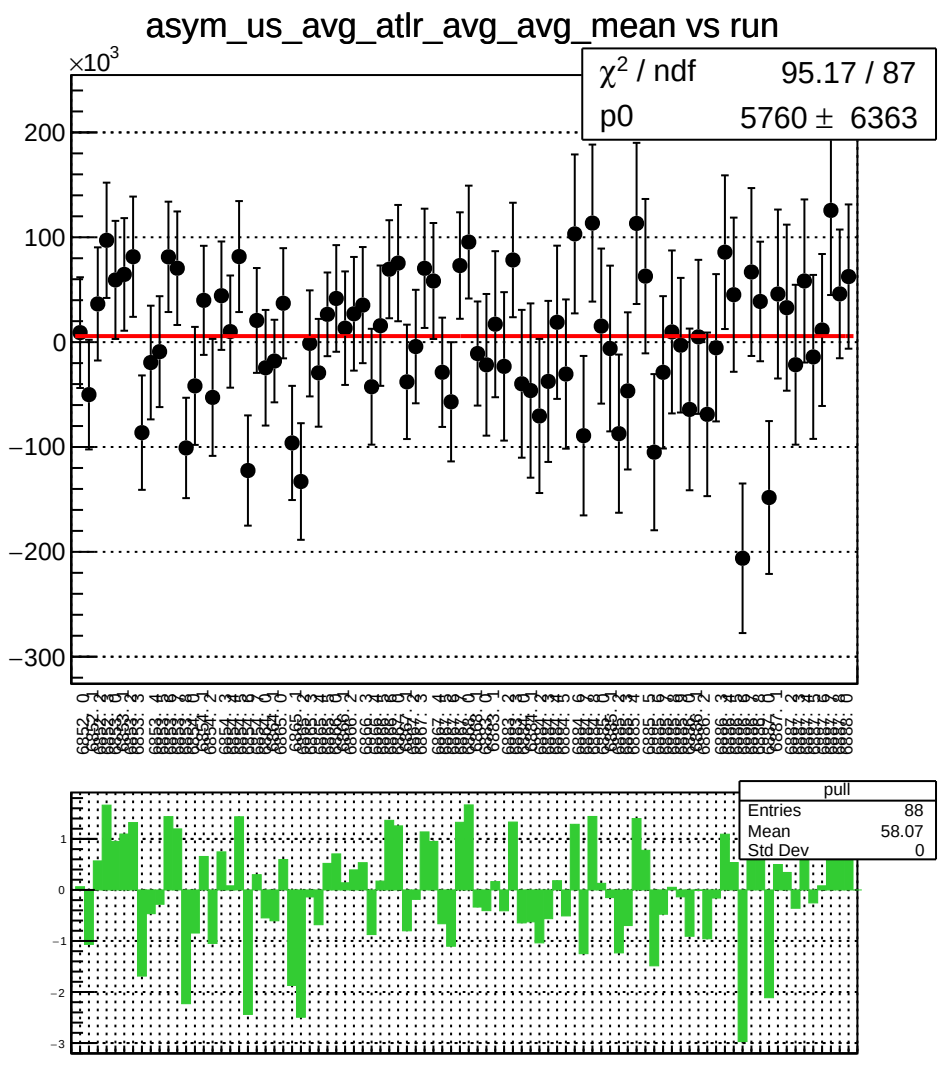

pull1D
Entries 88
Mean 0.005182
Std Dev 0.9165
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

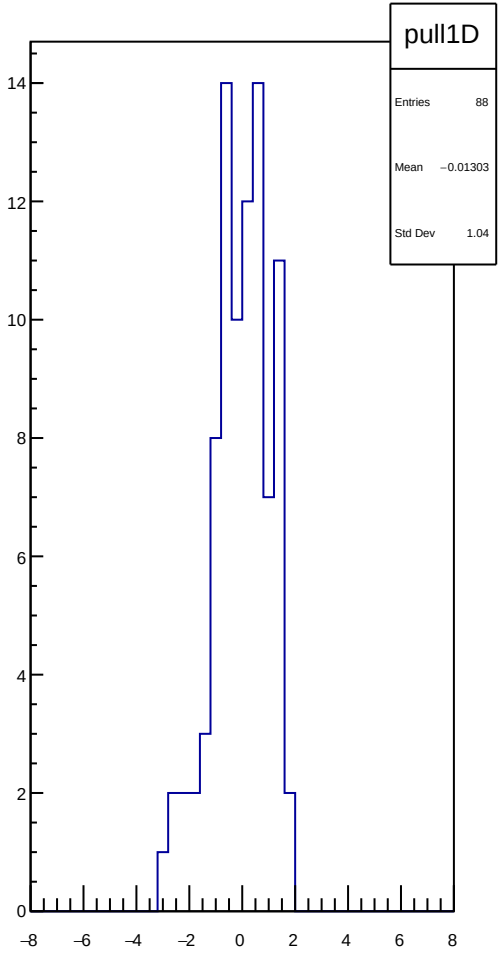

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 250.5 / 87
p0 1851 ± 1.424
2000
1950
1900
1850
1800

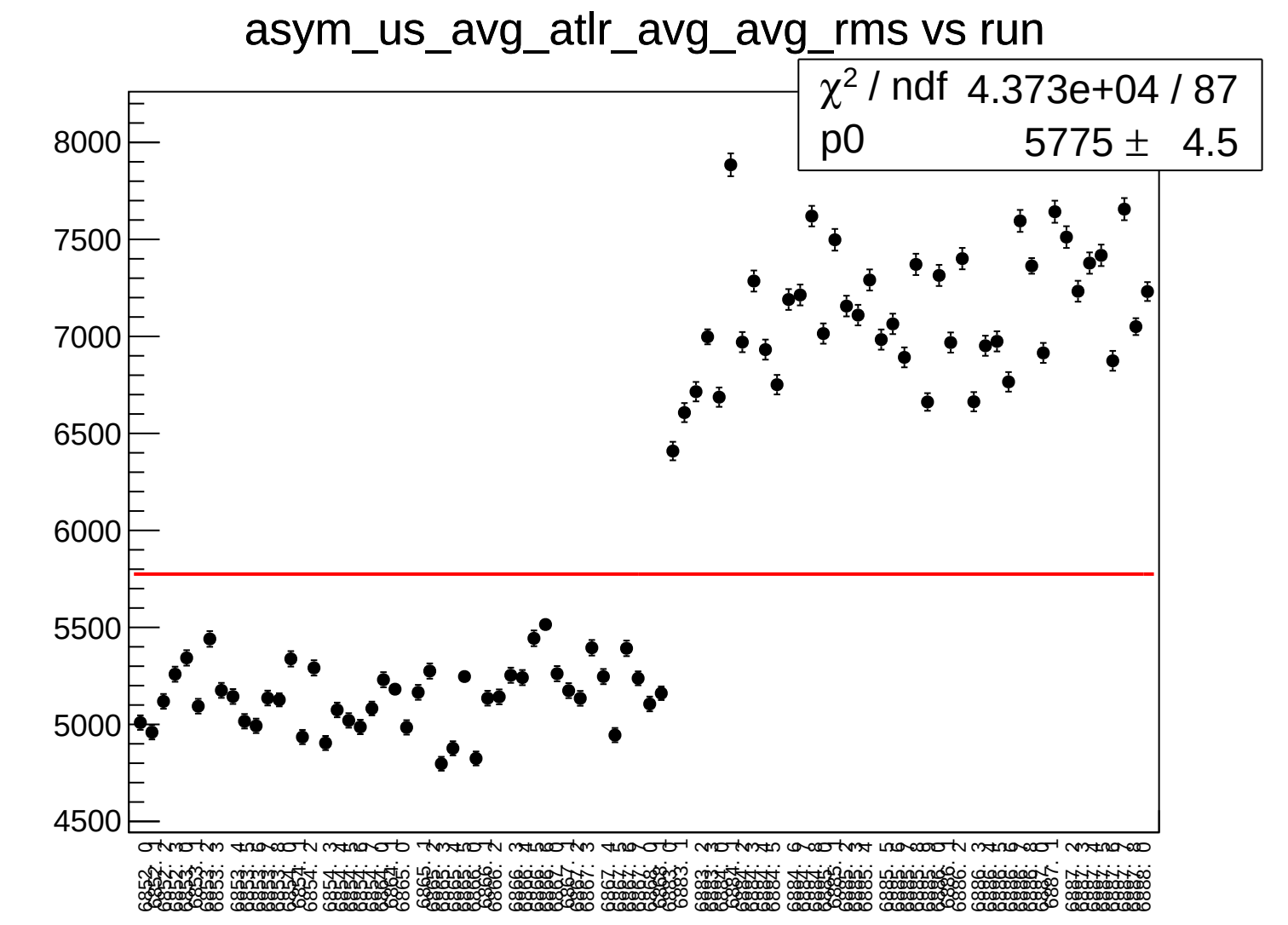

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.23 / 87
p0 −5149 ± 6314
200
100
0
−100
−200
pull
Entries 88
Mean 41.49
Std Dev 0
2
1
0
−1
−2

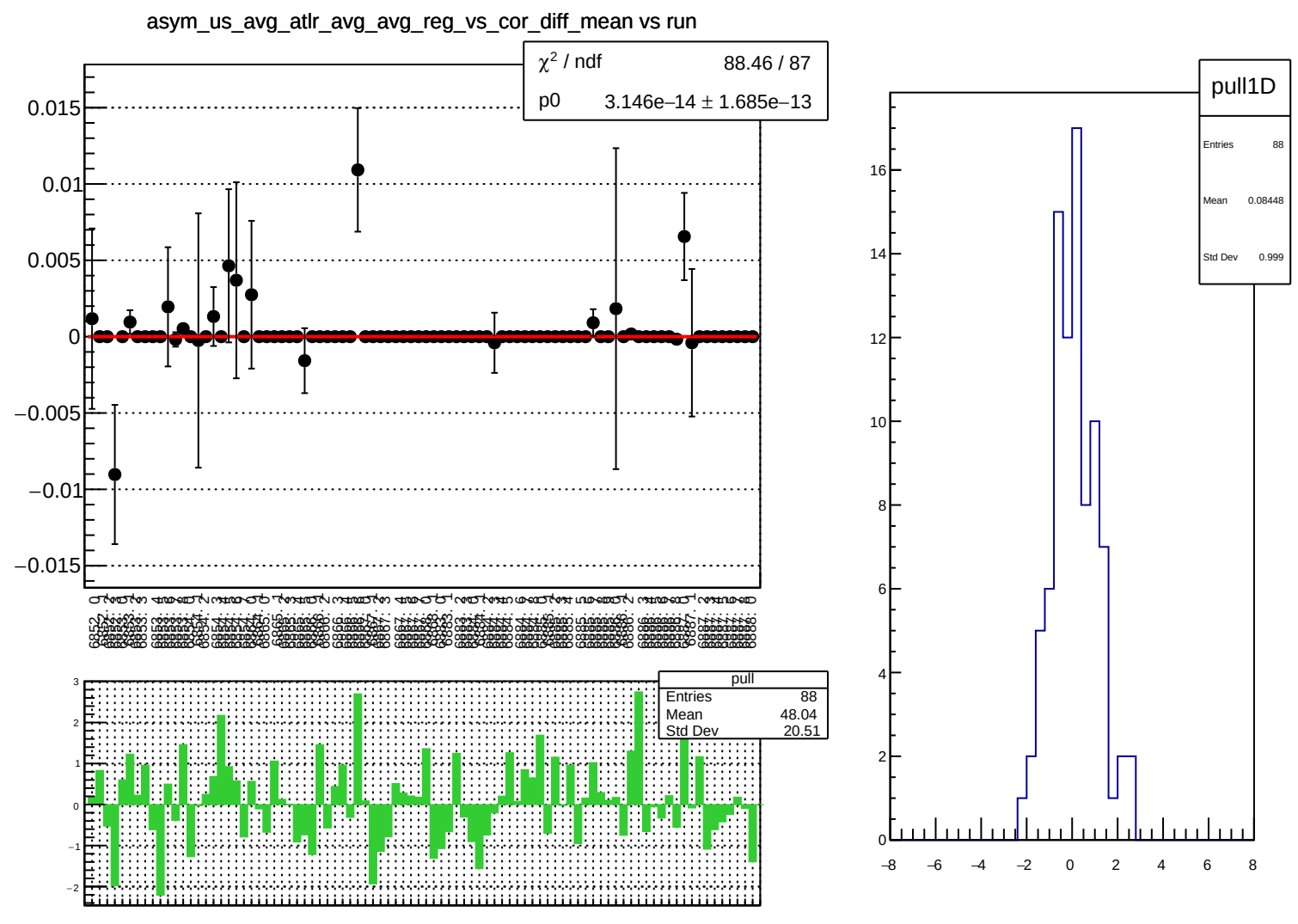

pull1D
Entries 88
Mean 0.01275
Std Dev 0.9841
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

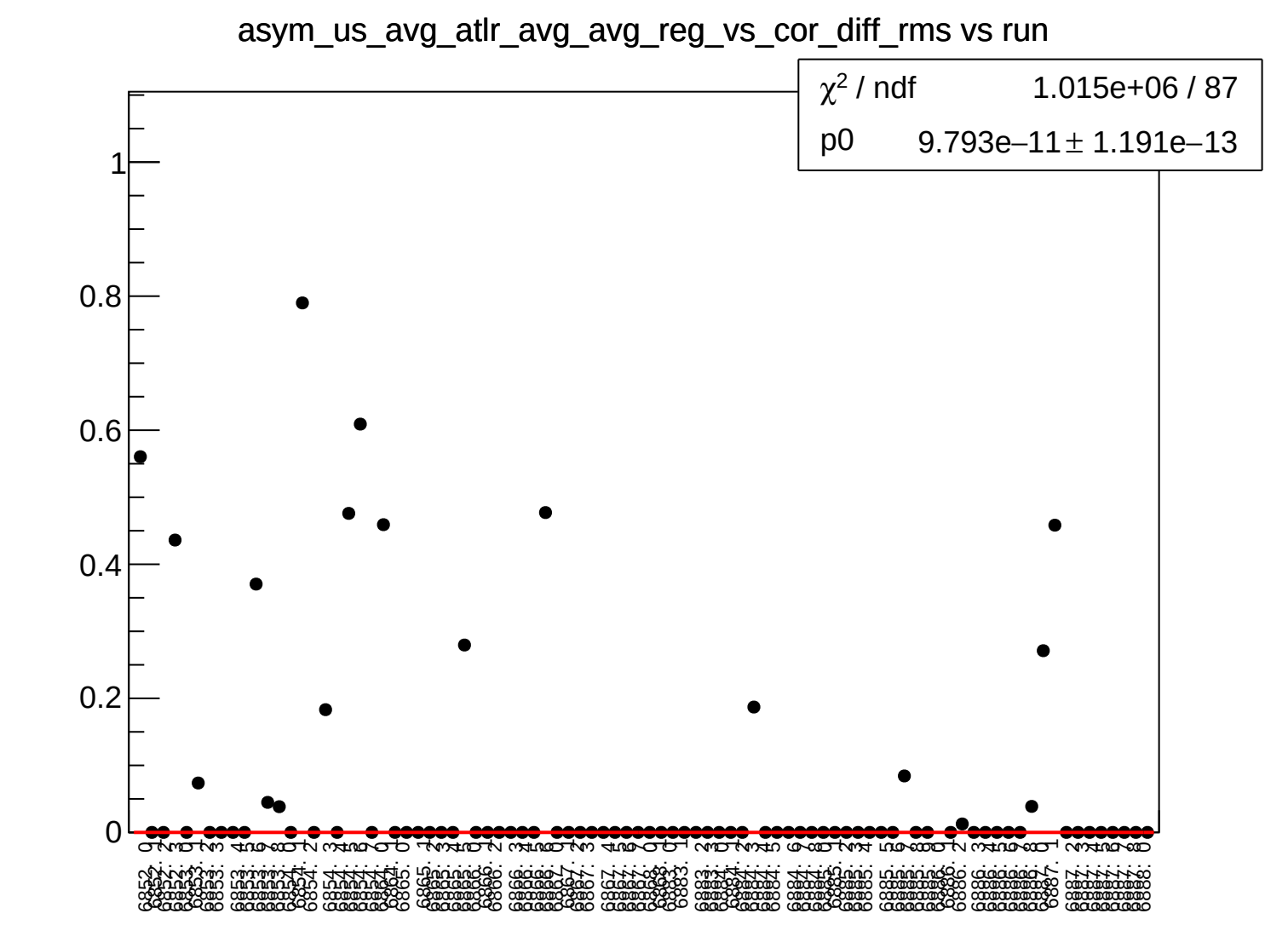

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.065e+04 / 87
p0 5718 ± 4.465
8000
7500
7000
6500
6000
5500
5000
4500

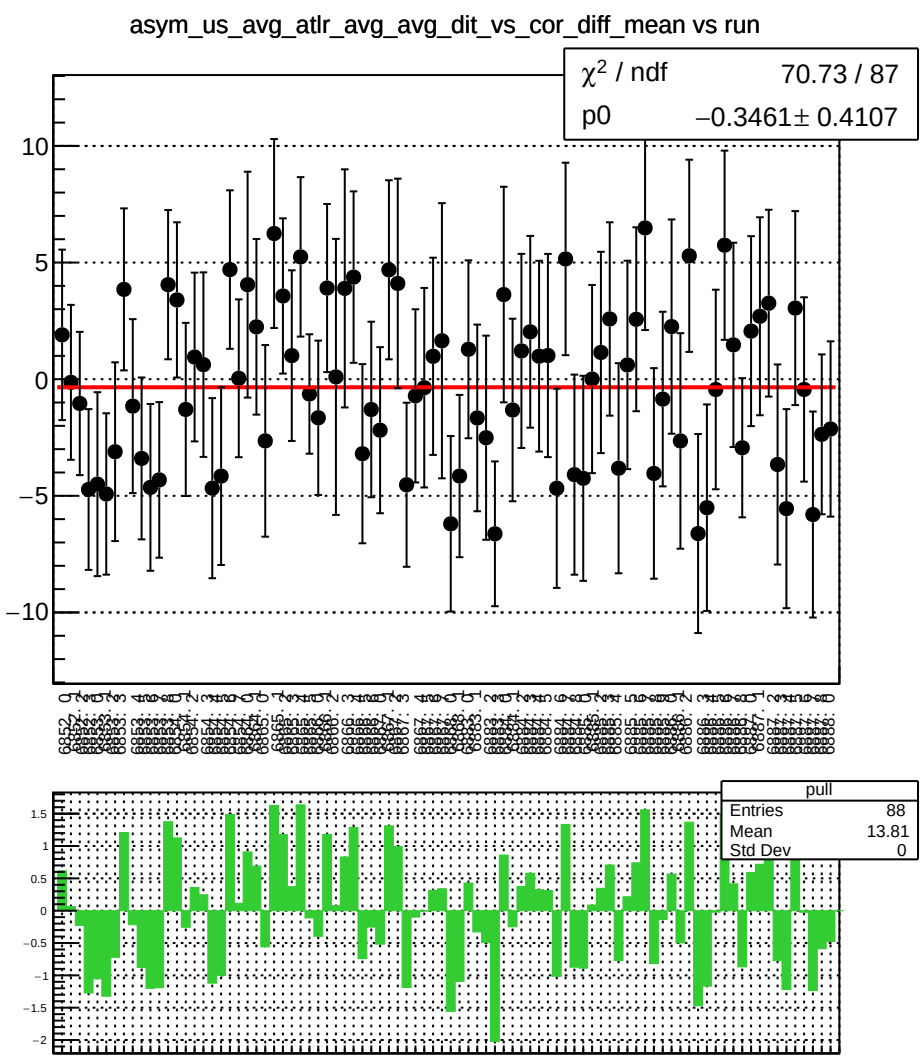

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ^2 / ndf 95.17 / 87
p0 5760 ± 6363
200
100
0
−100
−200
−300
pull
Entries 88
Mean 58.07
Std Dev 0
1
0
−1
−2
−3

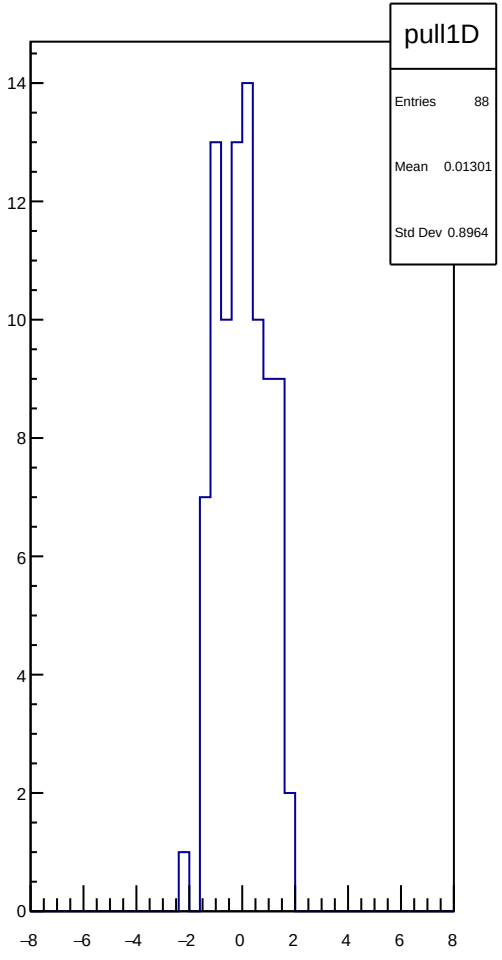

pull1D
Entries 88
Mean −0.01303
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

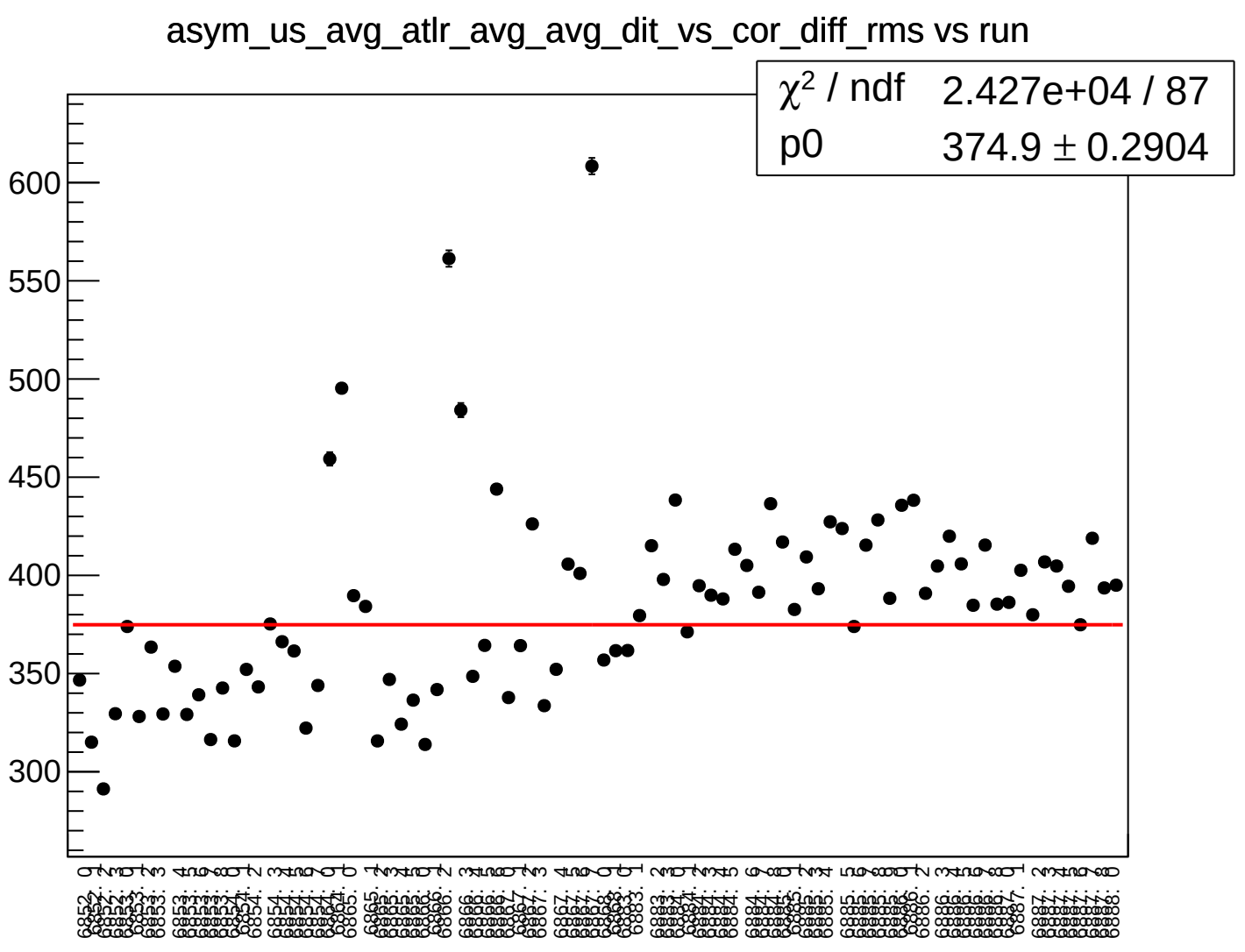

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4.373e+04 / 87
p0 5775 ± 4.5
8000
7500
7000
6500
6000
5500
5000
4500

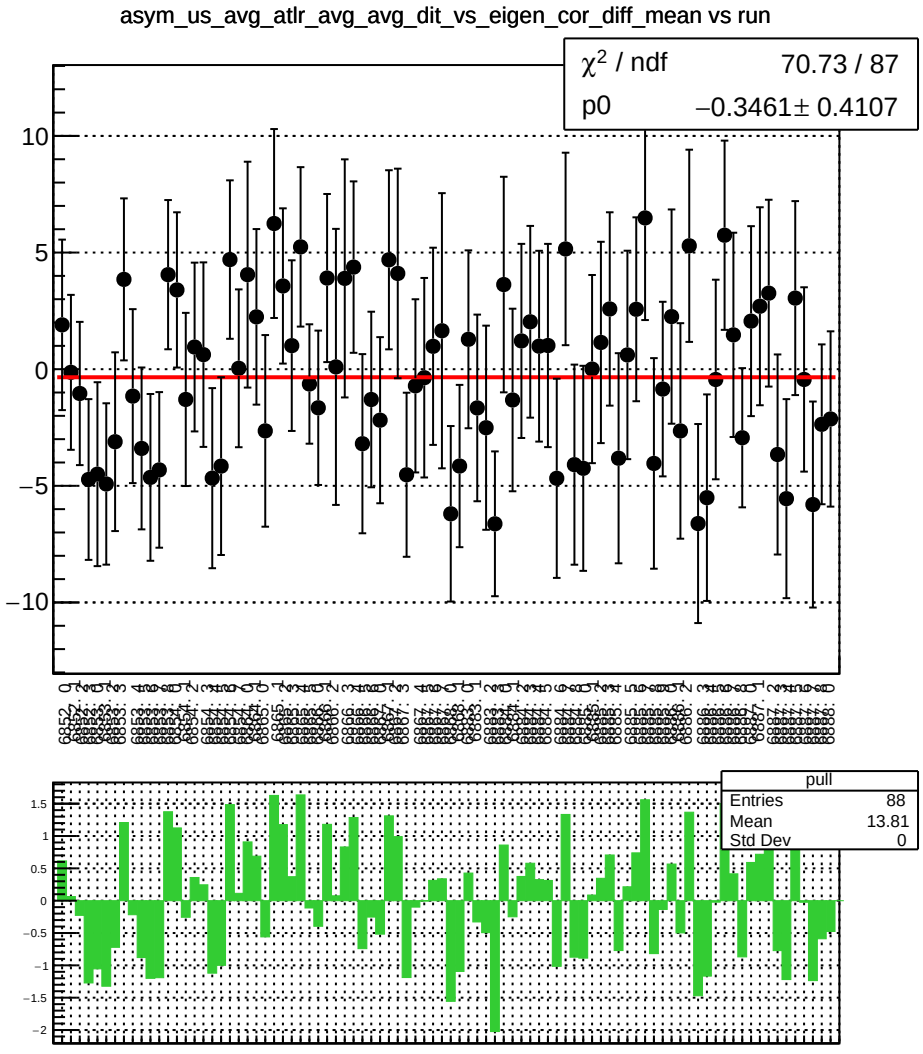

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.46 / 87
p0 3.146e−14 ± 1.685e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 48.04
Std Dev 20.51
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.08448
Std Dev 0.999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

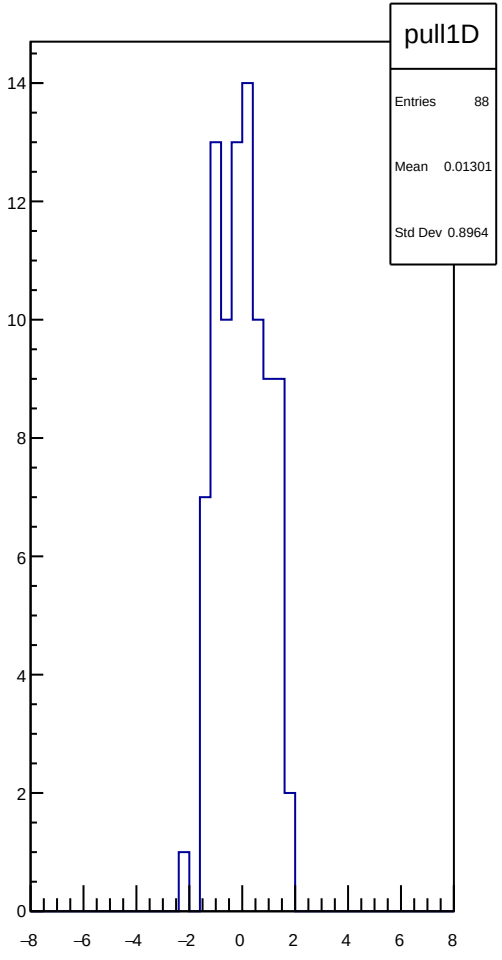

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.015e+06 / 87
p0 9.793e−11 ± 1.191e−13
1
0.8
0.6
0.4
0.2
0

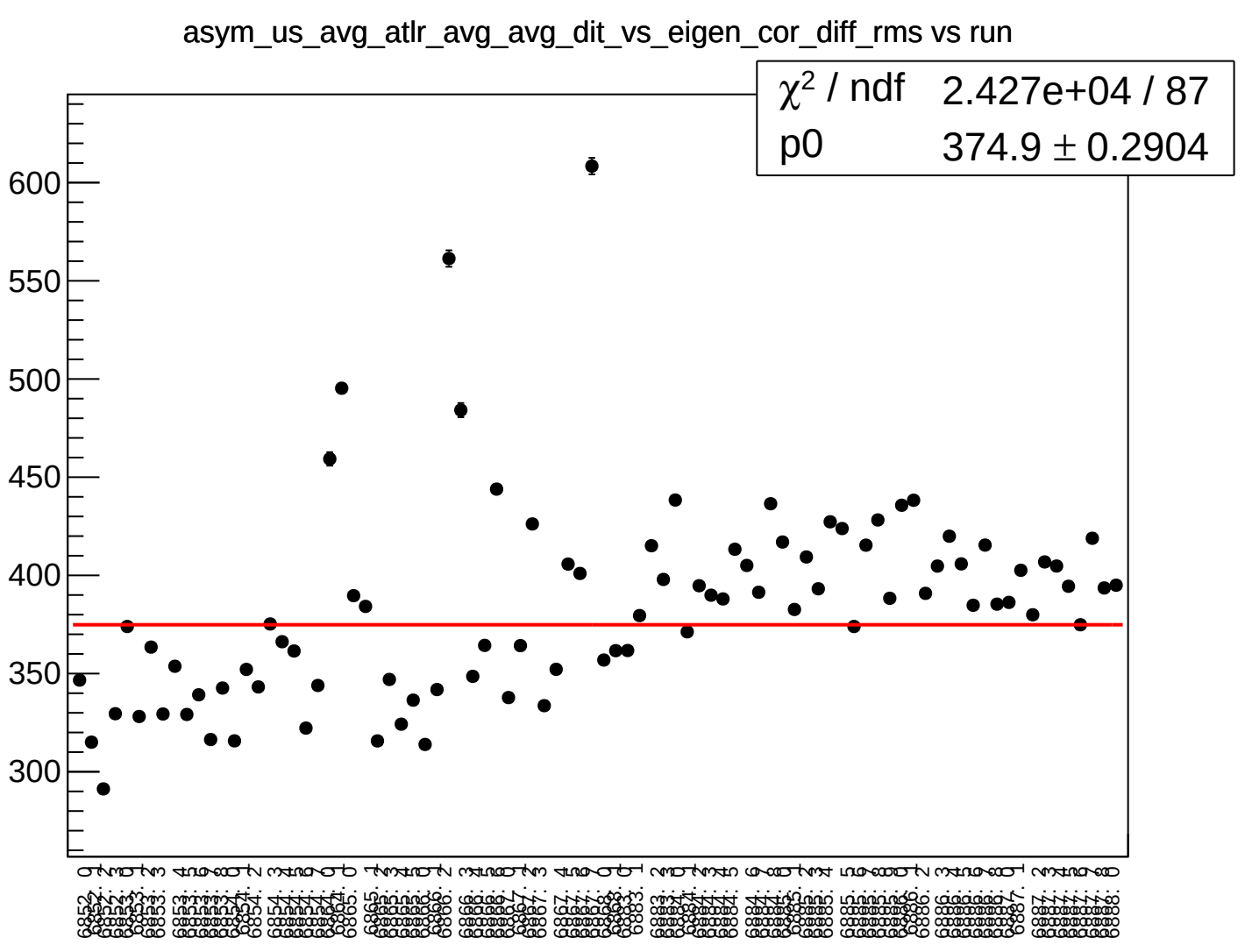

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.73 / 87
p0 −0.3461± 0.4107
pull
Entries 88
Mean 13.81
Std Dev 0

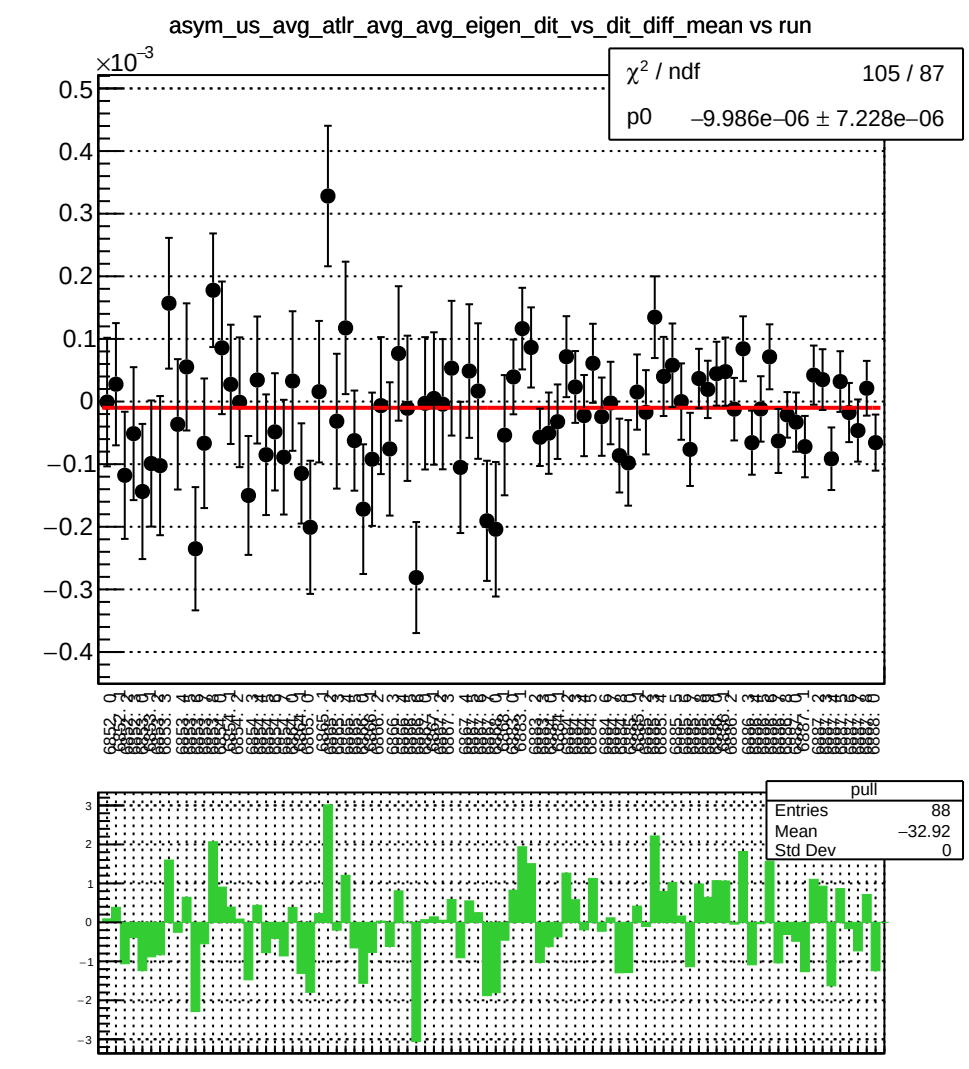

pull1D
Entries 88
Mean 0.01301
Std Dev 0.8964

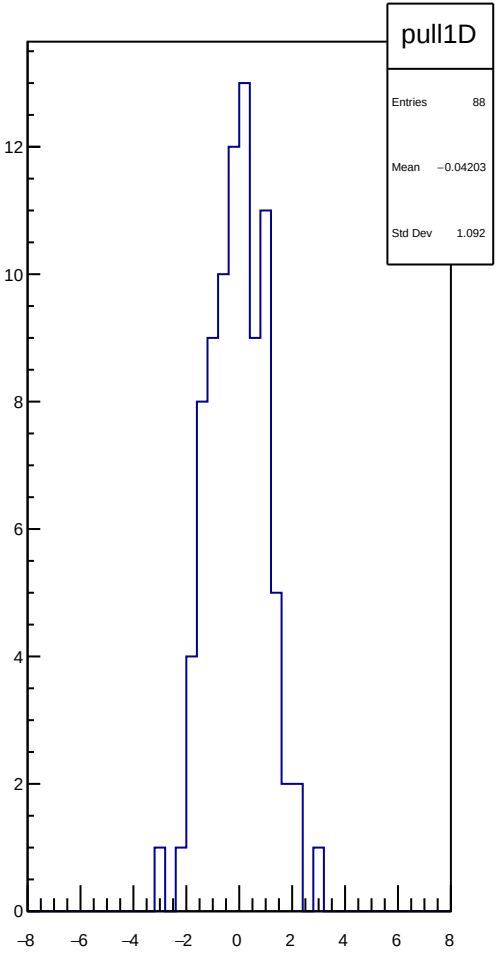

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.427e+04 / 87
p0 374.9 ± 0.2904
600
550
500
450
400
350
300

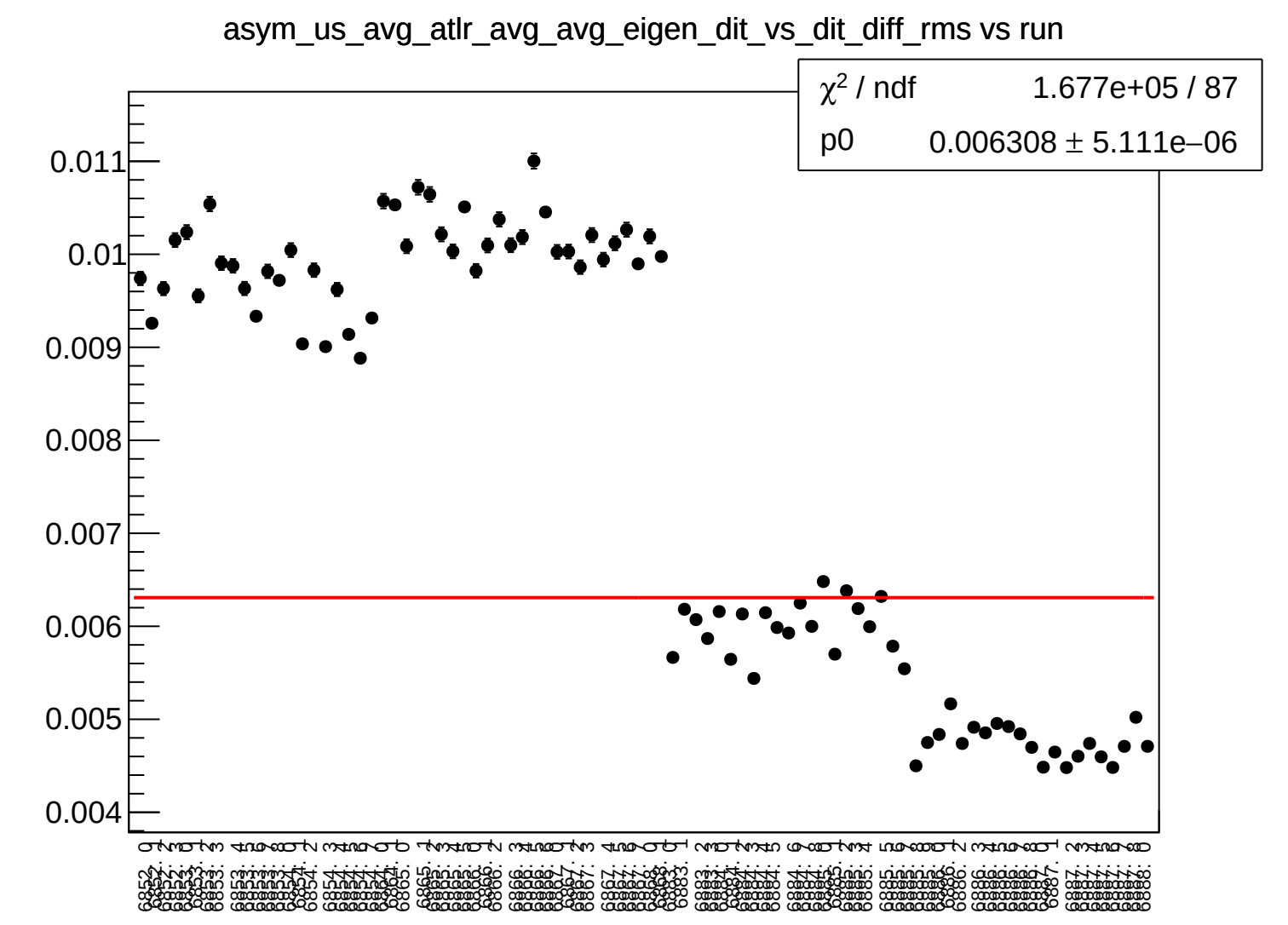

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.73 / 87
p0 −0.3461± 0.4107
pull
Entries 88
Mean 13.81
Std Dev 0

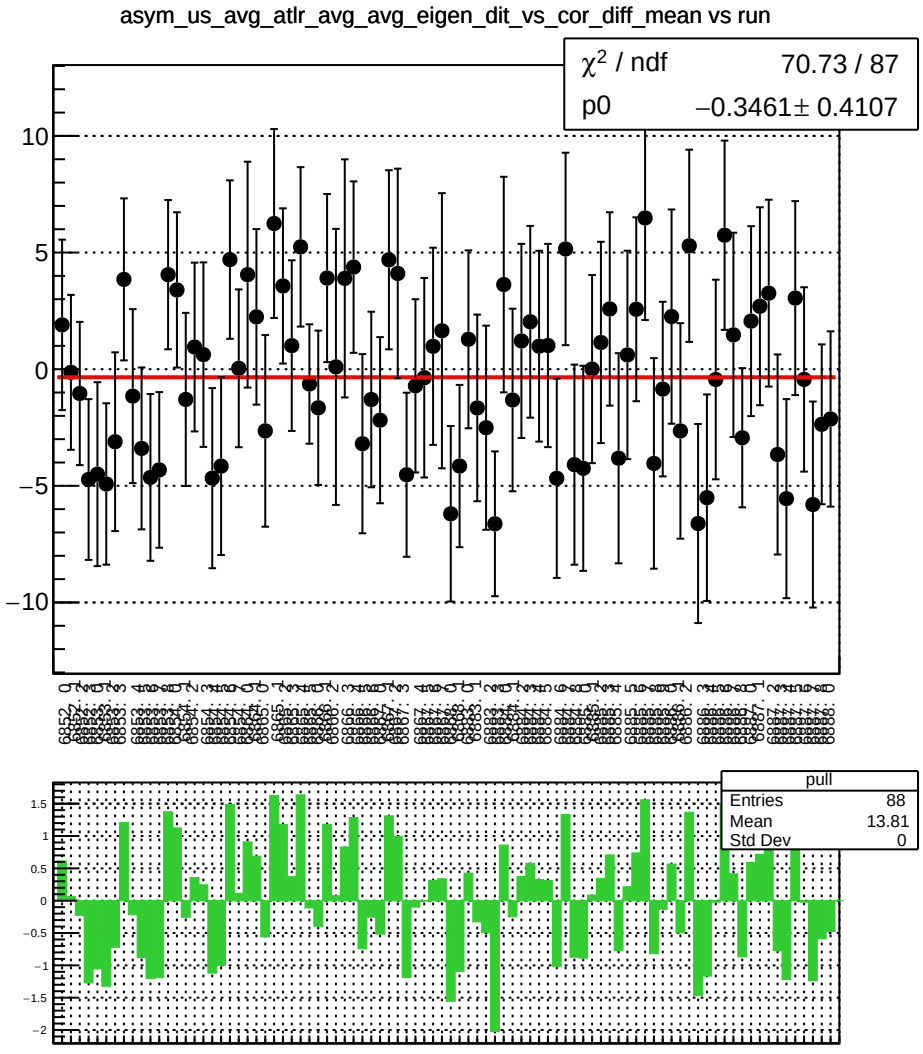

pull1D
Entries 88
Mean 0.01301
Std Dev 0.8964

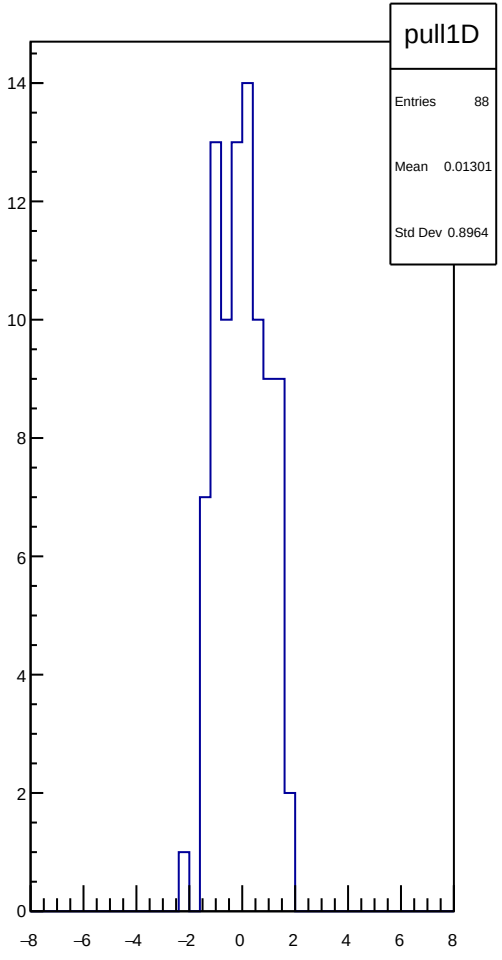

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.427e+04 / 87
p0 374.9 ± 0.2904
600
550
500
450
400
350
300

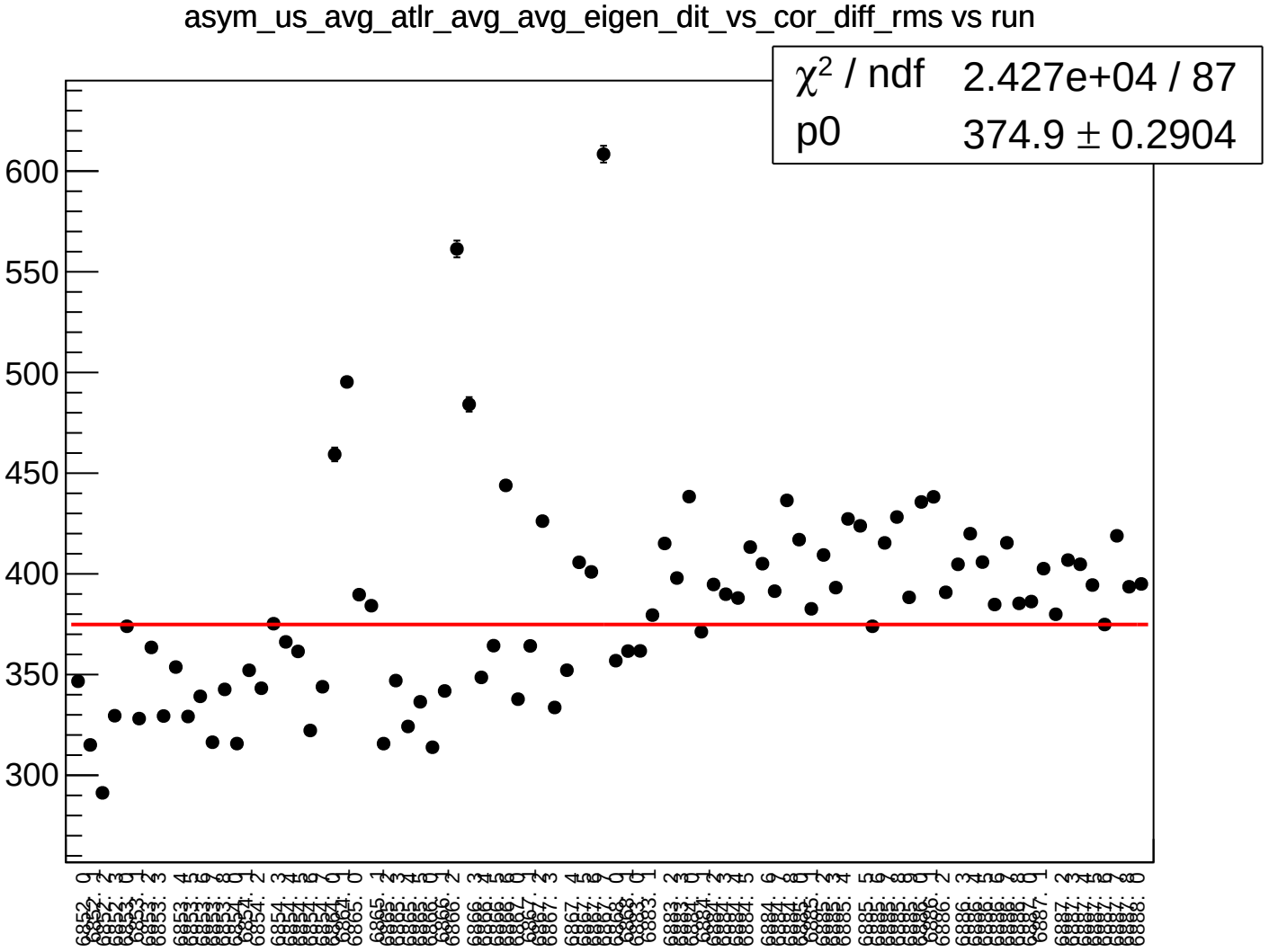

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 105 / 87
p0 −9.986e−06 ± 7.228e−06
pull
Entries 88
Mean −32.92
Std Dev 0

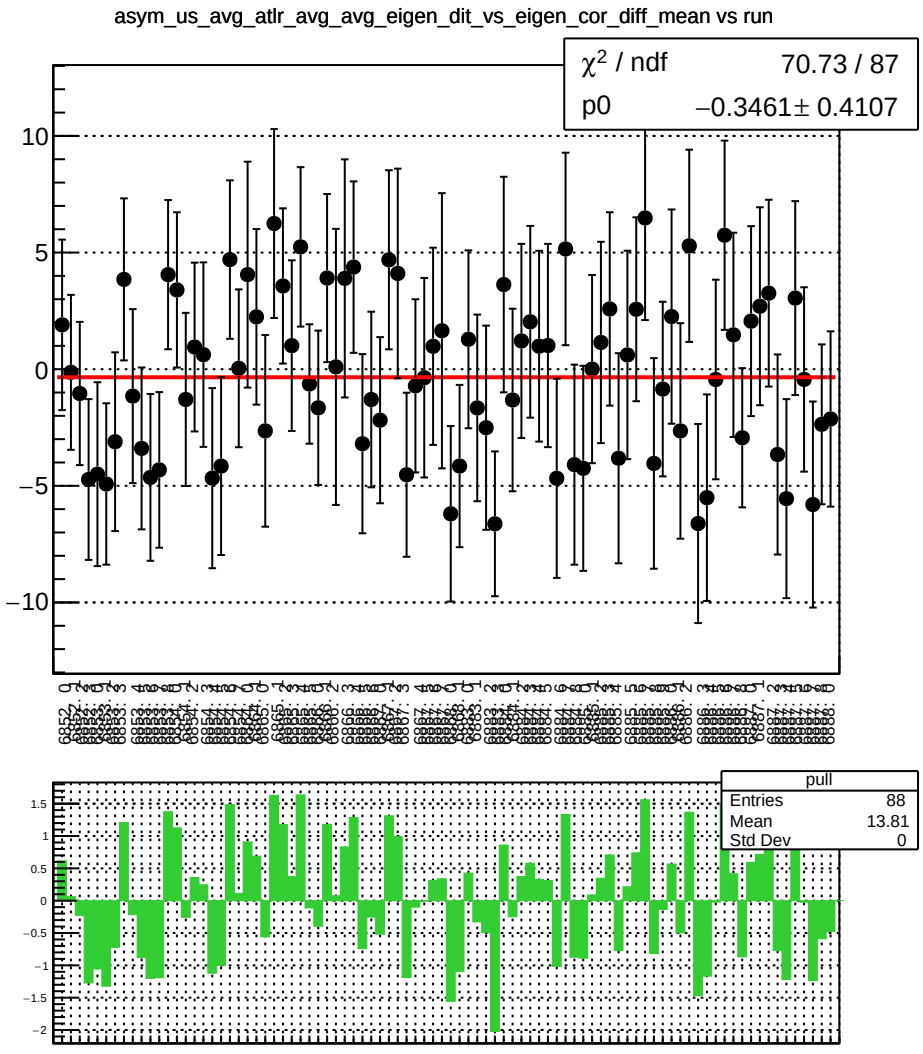

pull1D
Entries 88
Mean −0.04203
Std Dev 1.092

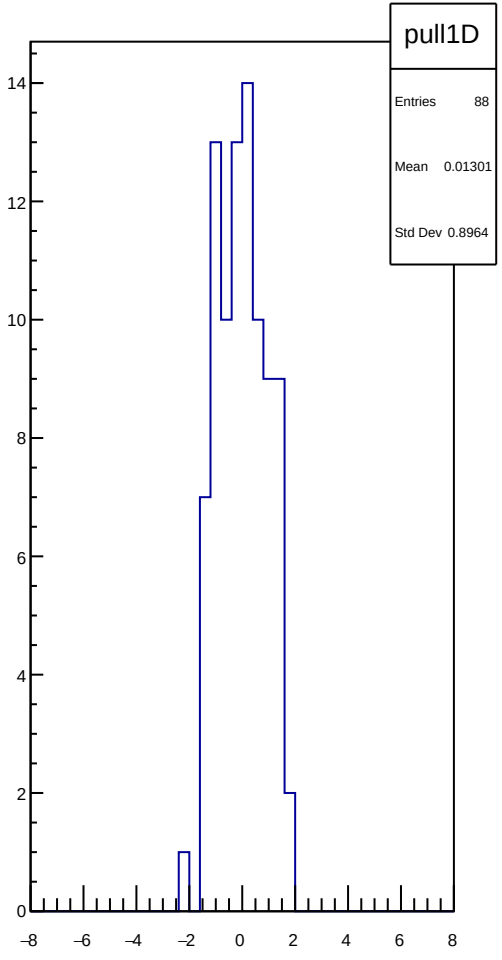

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.677e+05 / 87
p0 0.006308 ± 5.111e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

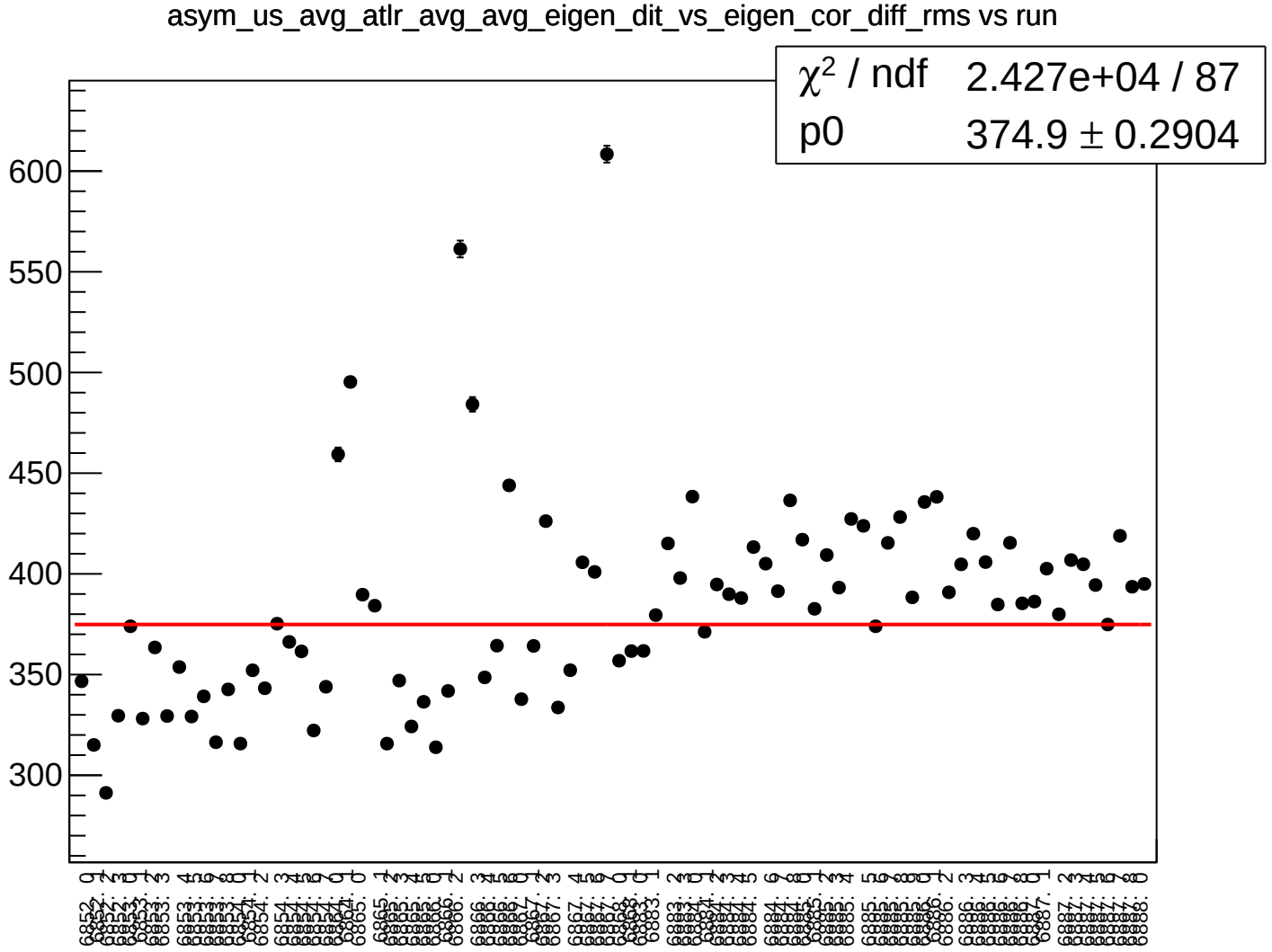

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.73 / 87
p0 −0.3461± 0.4107
pull
Entries 88
Mean 13.81
Std Dev 0

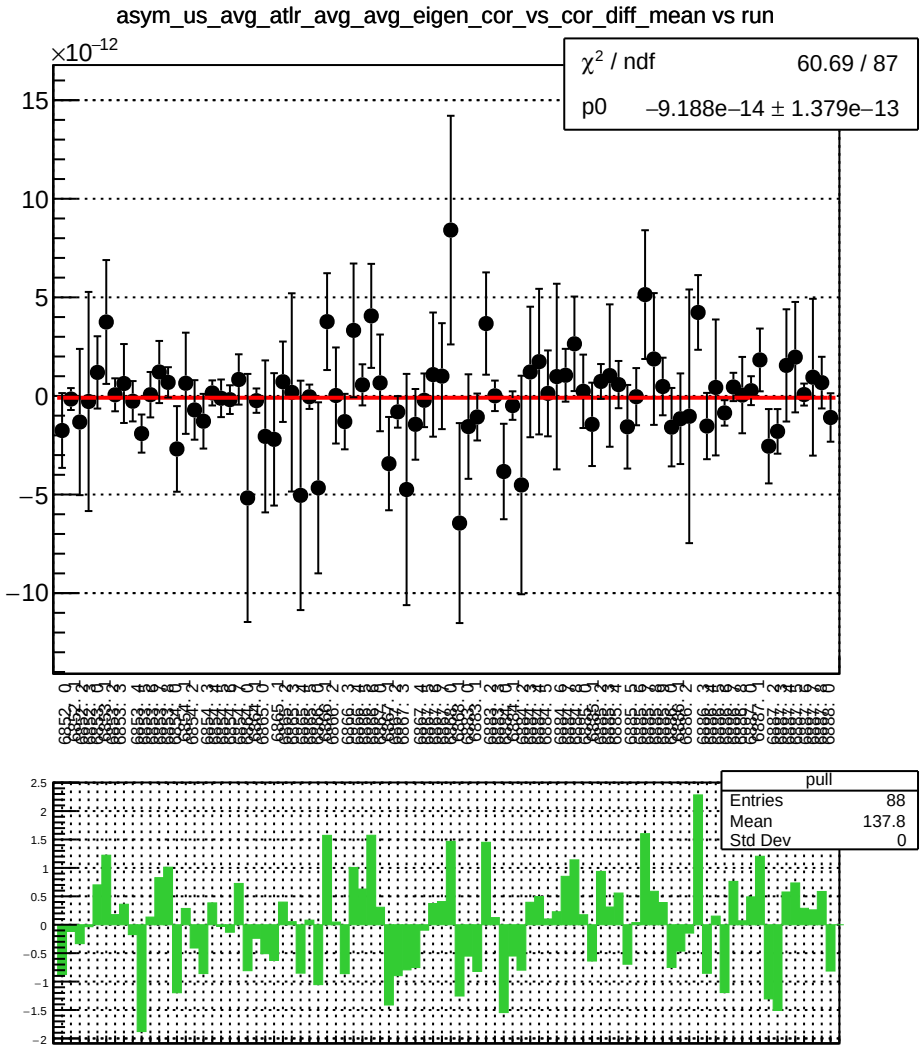

pull1D
Entries 88
Mean 0.01301
Std Dev 0.8964

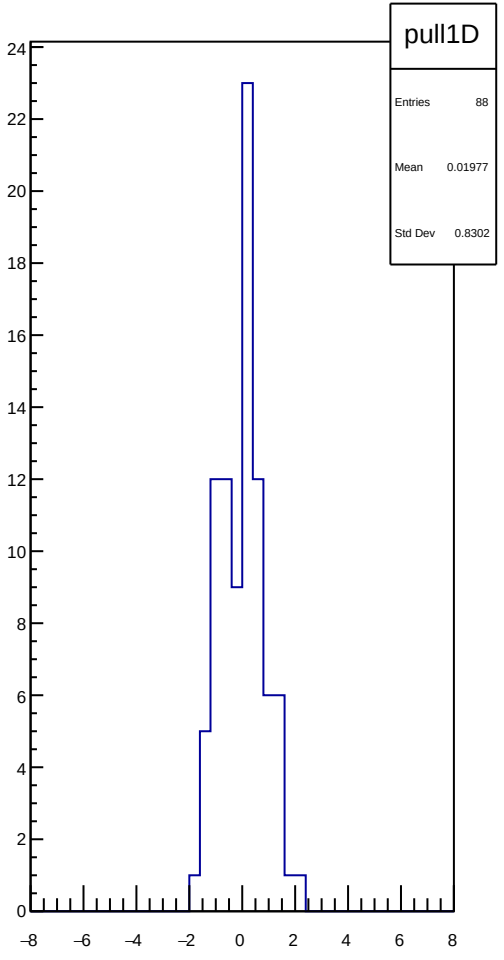

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.427e+04 / 87
p0 374.9 ± 0.2904
600
550
500
450
400
350
300

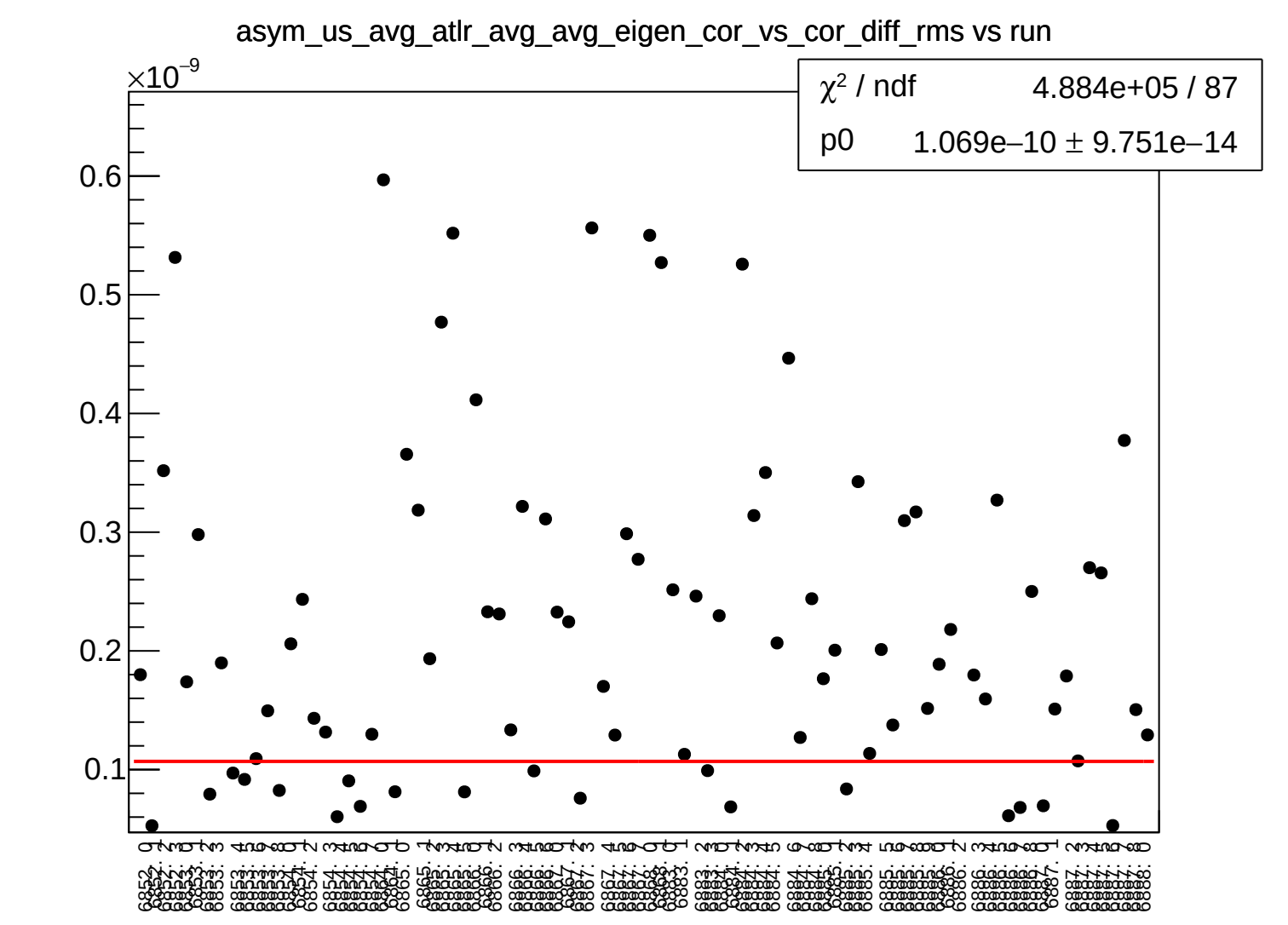

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.73 / 87
p0 −0.3461± 0.4107
pull
Entries 88
Mean 13.81
Std Dev 0

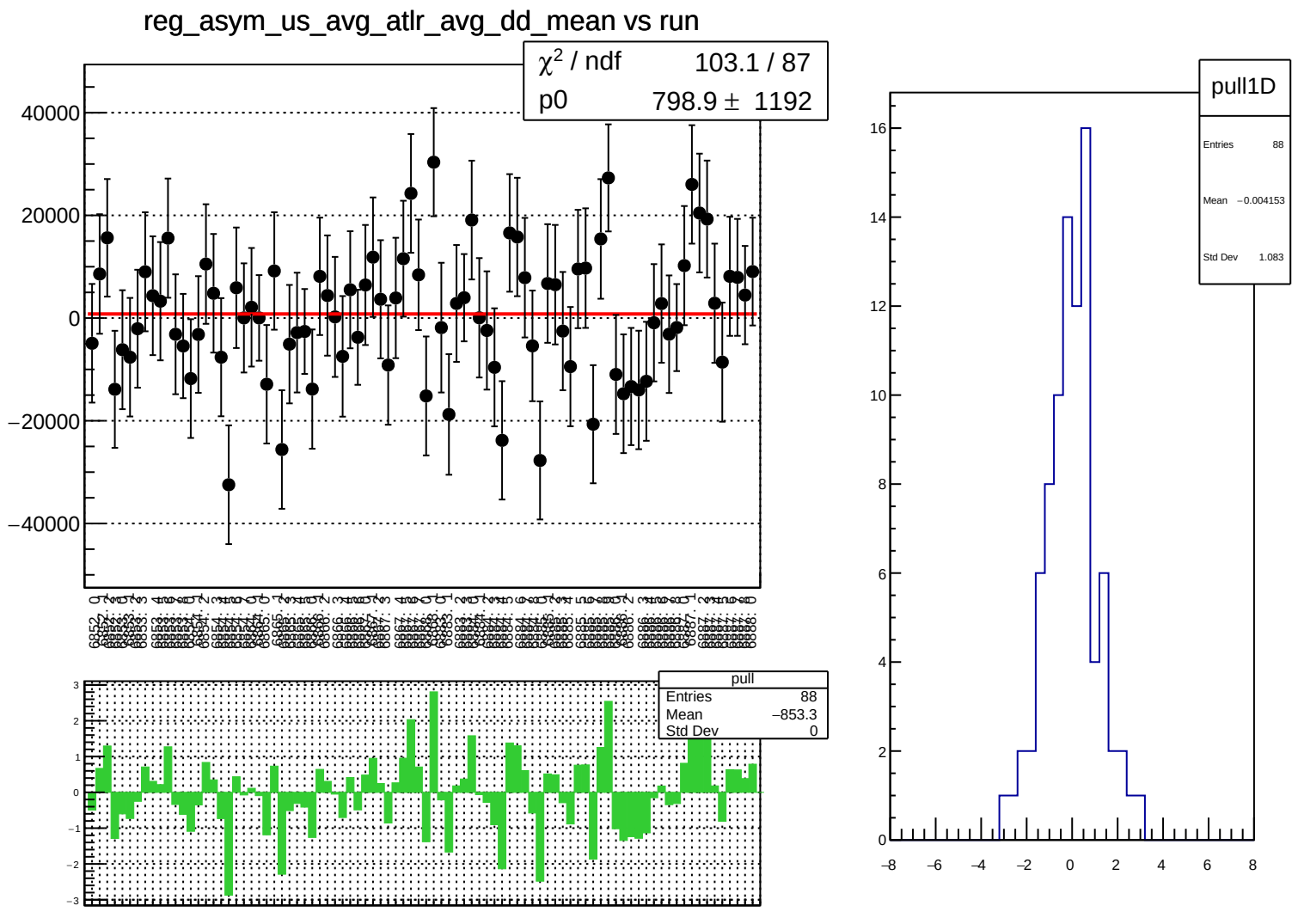

pull1D
Entries 88
Mean 0.01301
Std Dev 0.8964

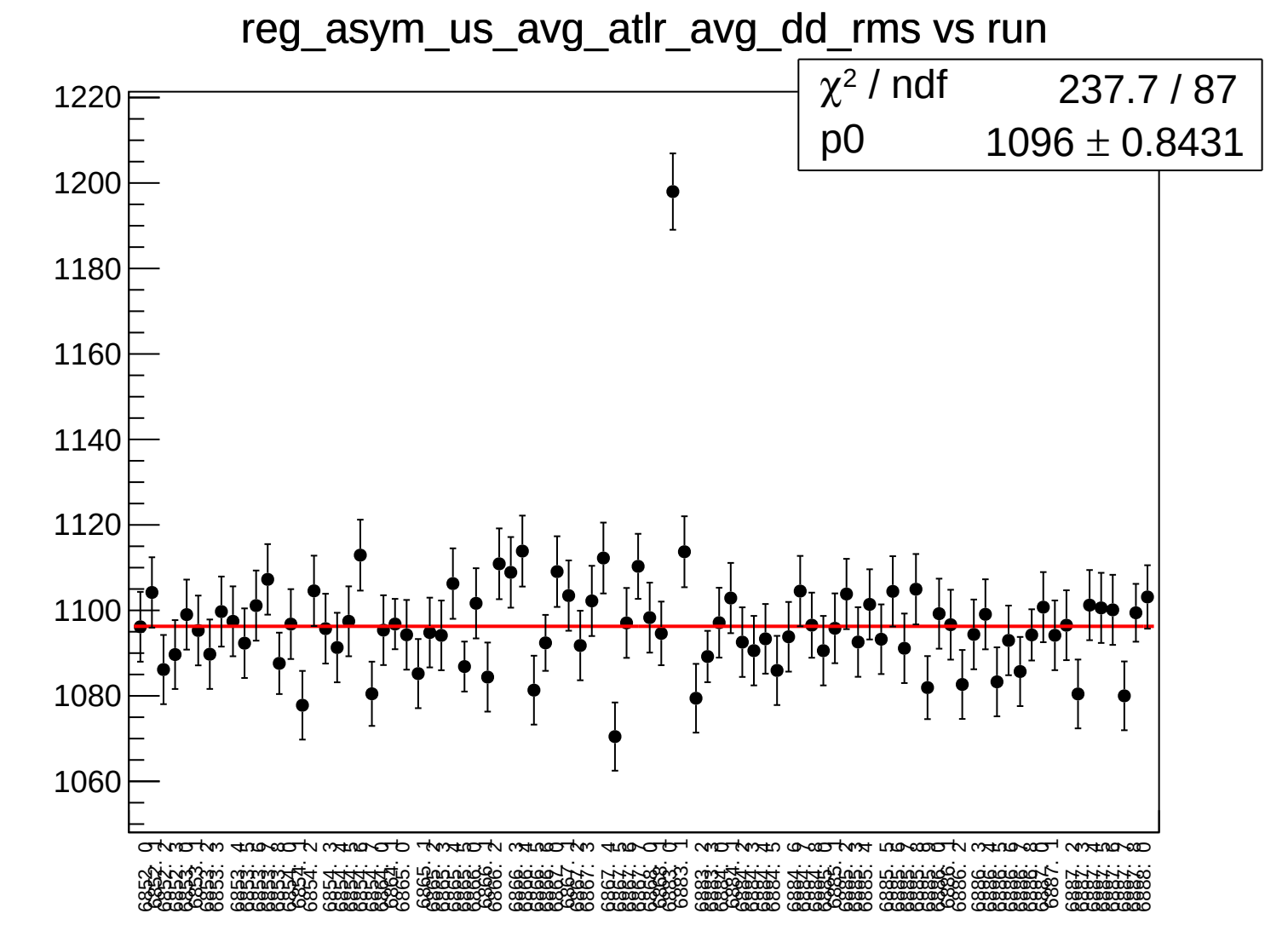

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.427e+04 / 87
p0 374.9 ± 0.2904
600
550
500
450
400
350
300

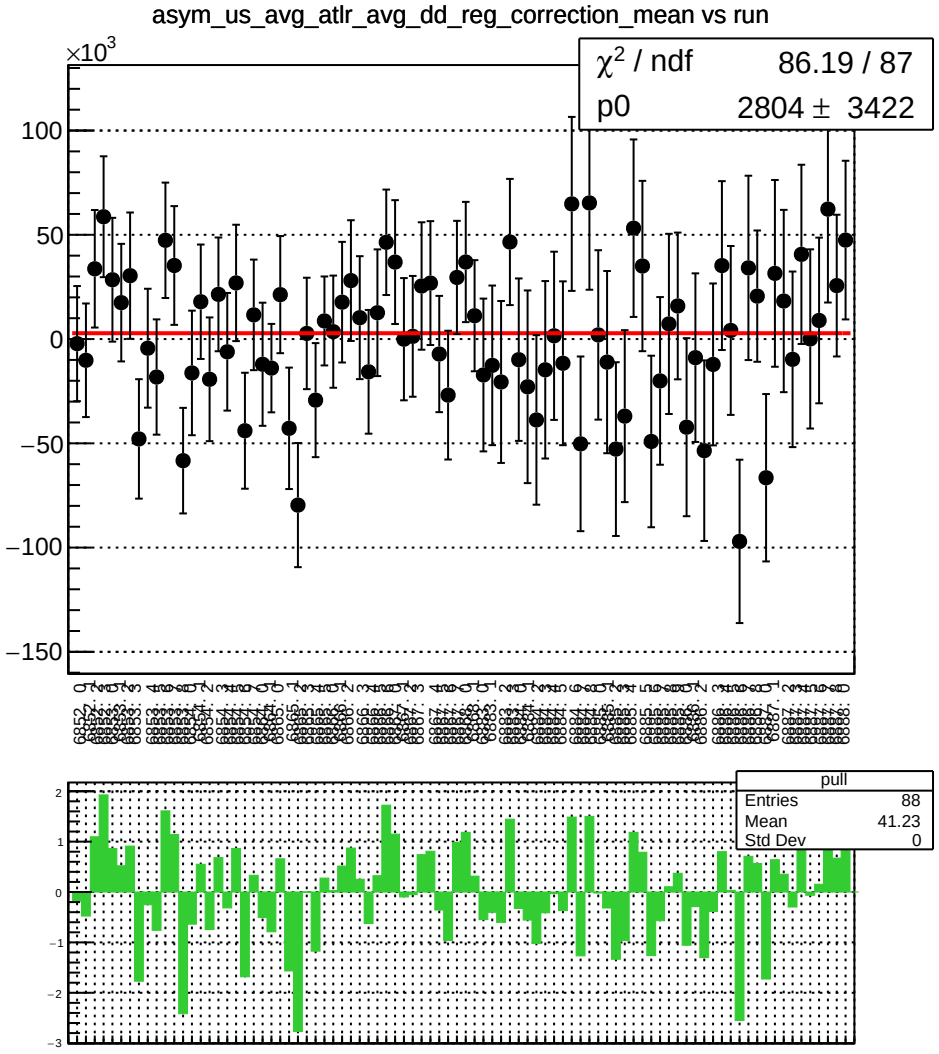

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 60.69 / 87
p0 −9.188e−14 ± 1.379e−13
15
10
5
0
−5
−10
pull
Entries 88
Mean 137.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

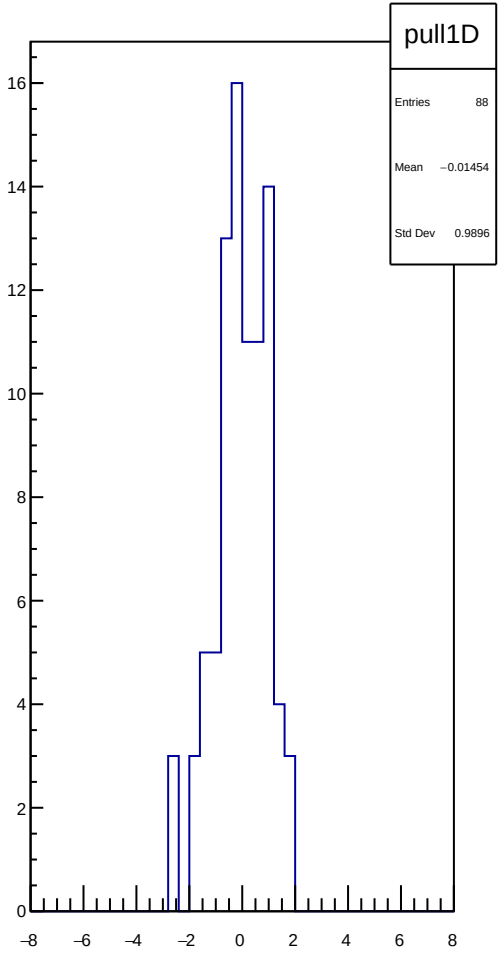

pull1D
Entries 88
Mean 0.01977
Std Dev 0.8302
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

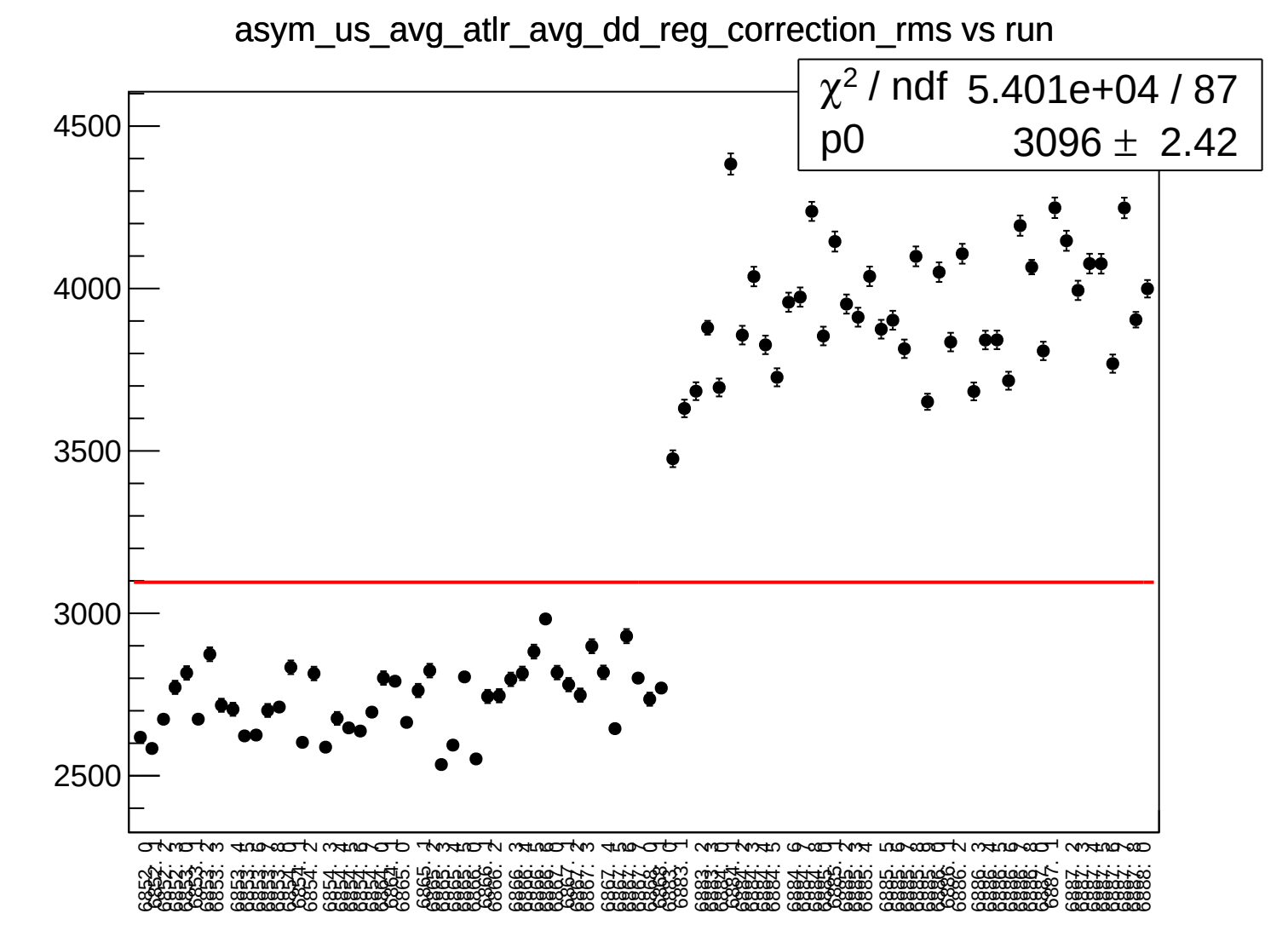

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.884e+05 / 87
p0 1.069e−10 ± 9.751e−14
0.6
0.5
0.4
0.3
0.2
0.1

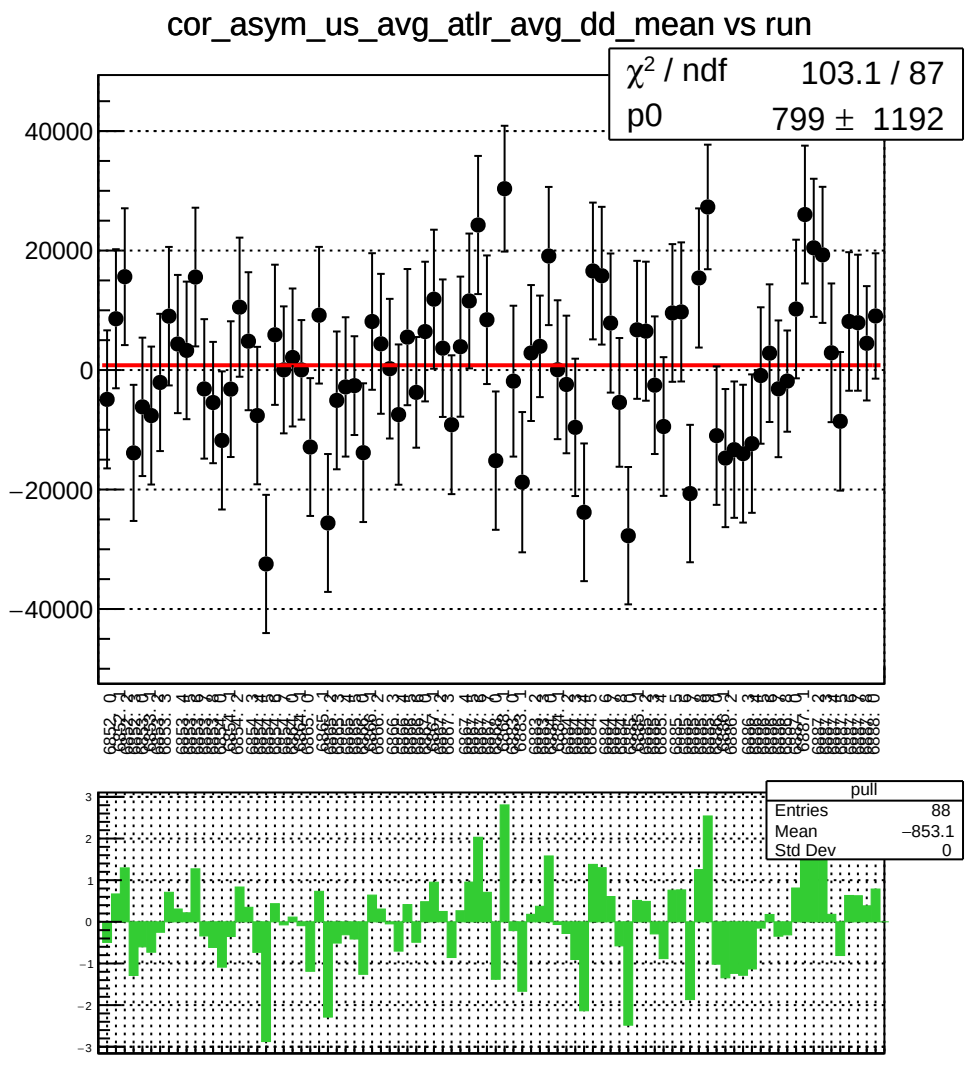

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 103.1 / 87
p0 798.9 ± 1192
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −853.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.004153
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

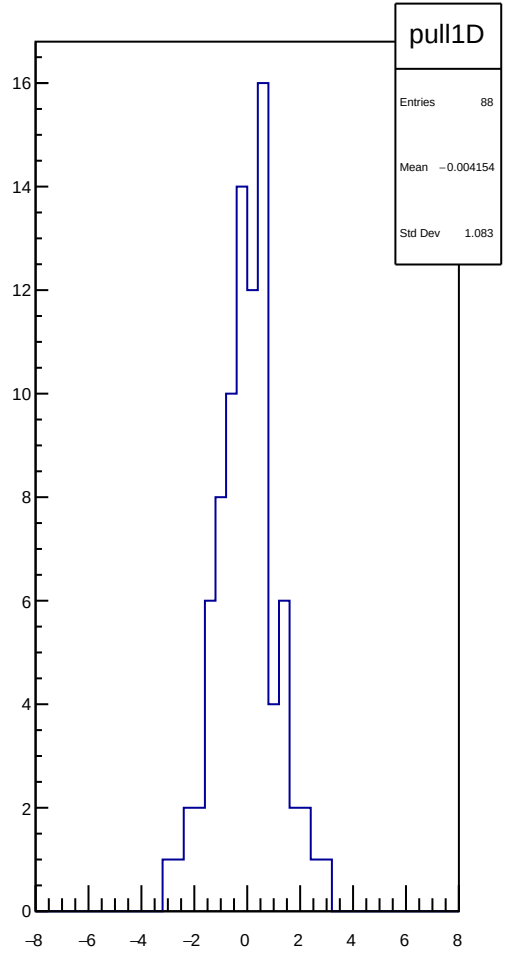

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 237.7 / 87
p0 1096 ± 0.8431
1220
1200
1180
1160
1140
1120
1100
1080
1060

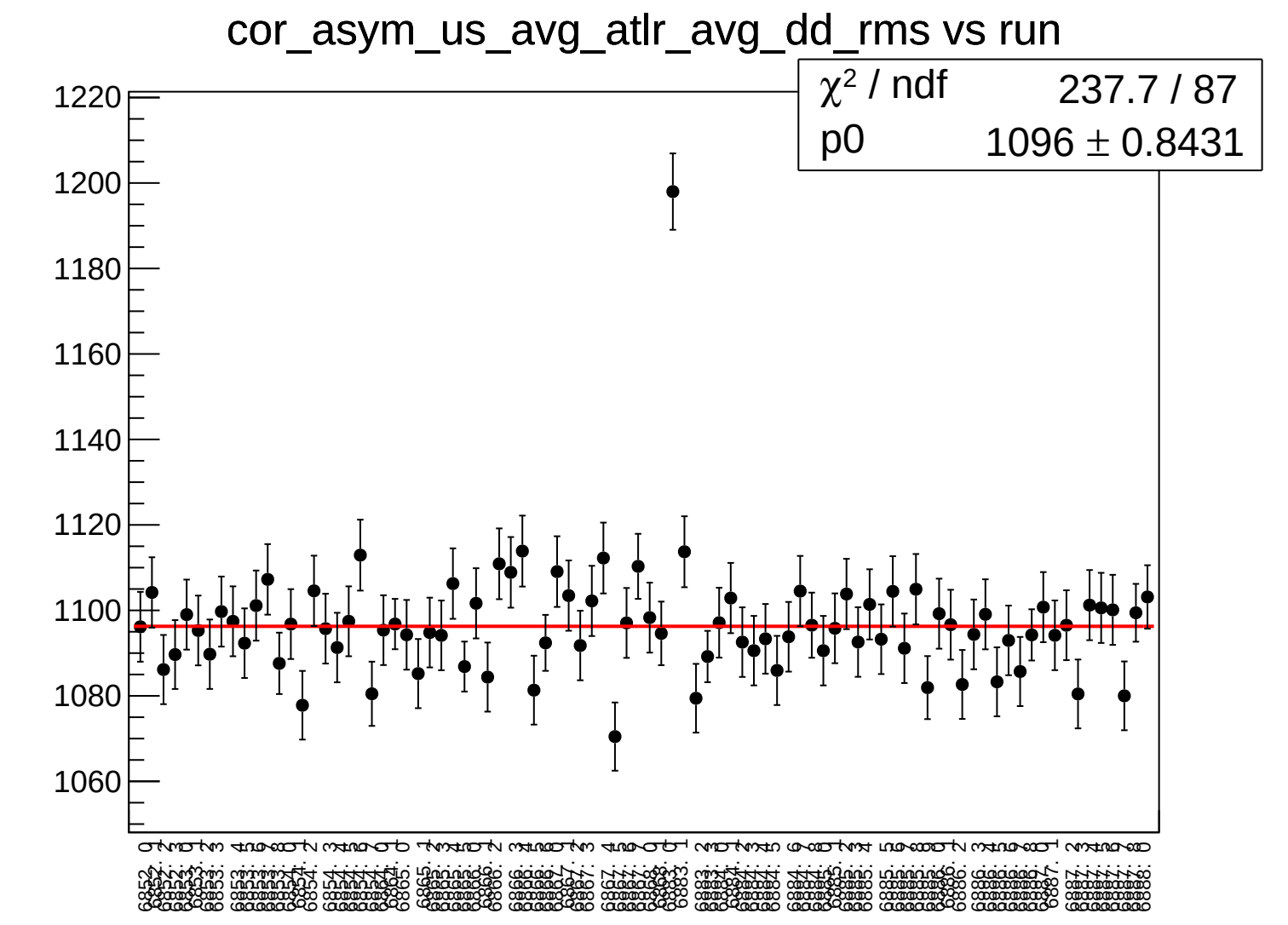

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 86.19 / 87
p0 2804 ± 3422
100
50
0
−50
−100
−150
pull
Entries 88
Mean 41.23
Std Dev 0
2
1
0
−1
−2
−3

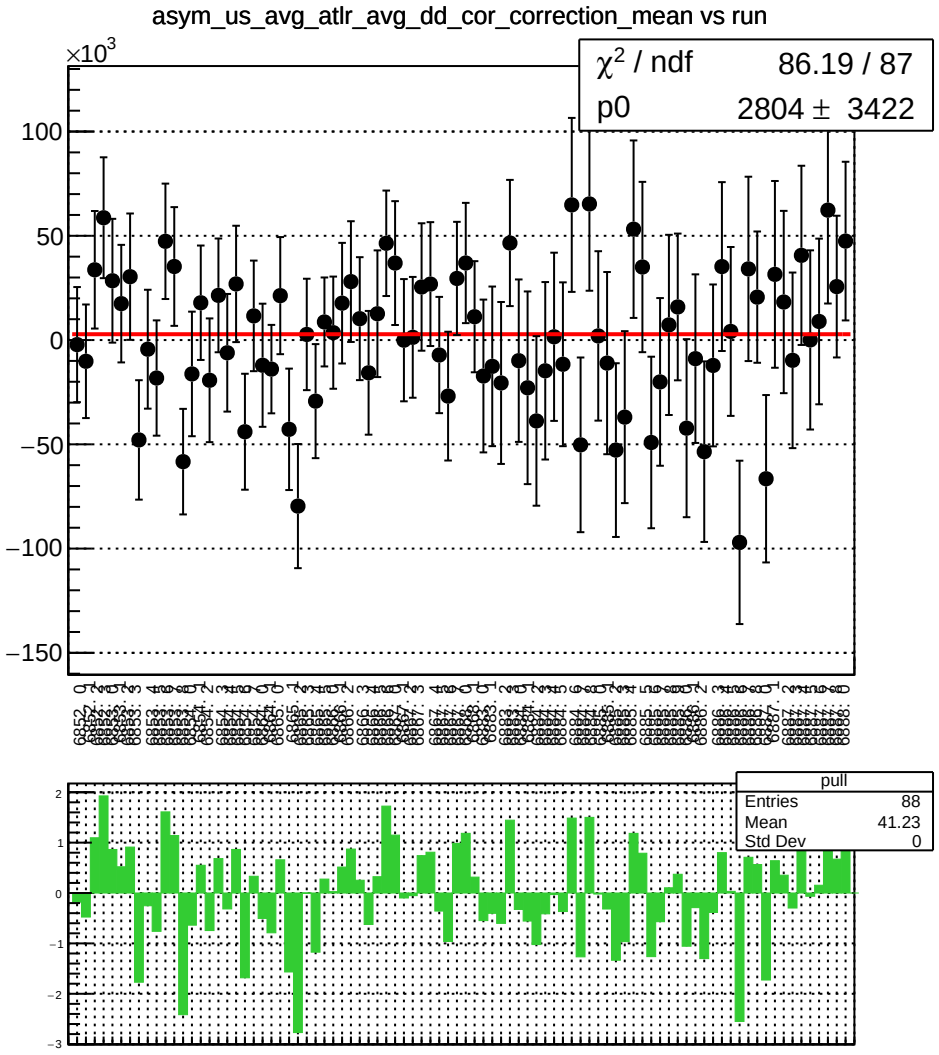

pull1D
Entries 88
Mean −0.01454
Std Dev 0.9896
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

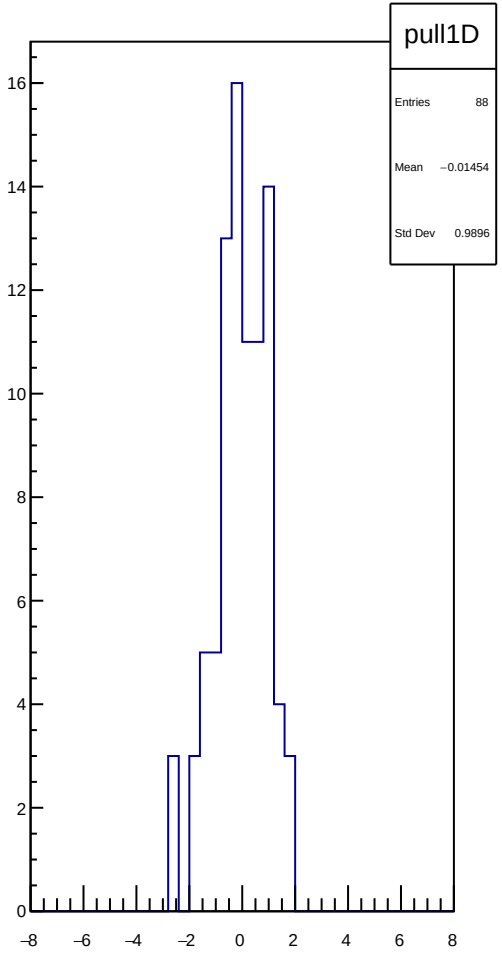

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 5.401e+04 / 87
p0 3096 ± 2.42
4500
4000
3500
3000
2500

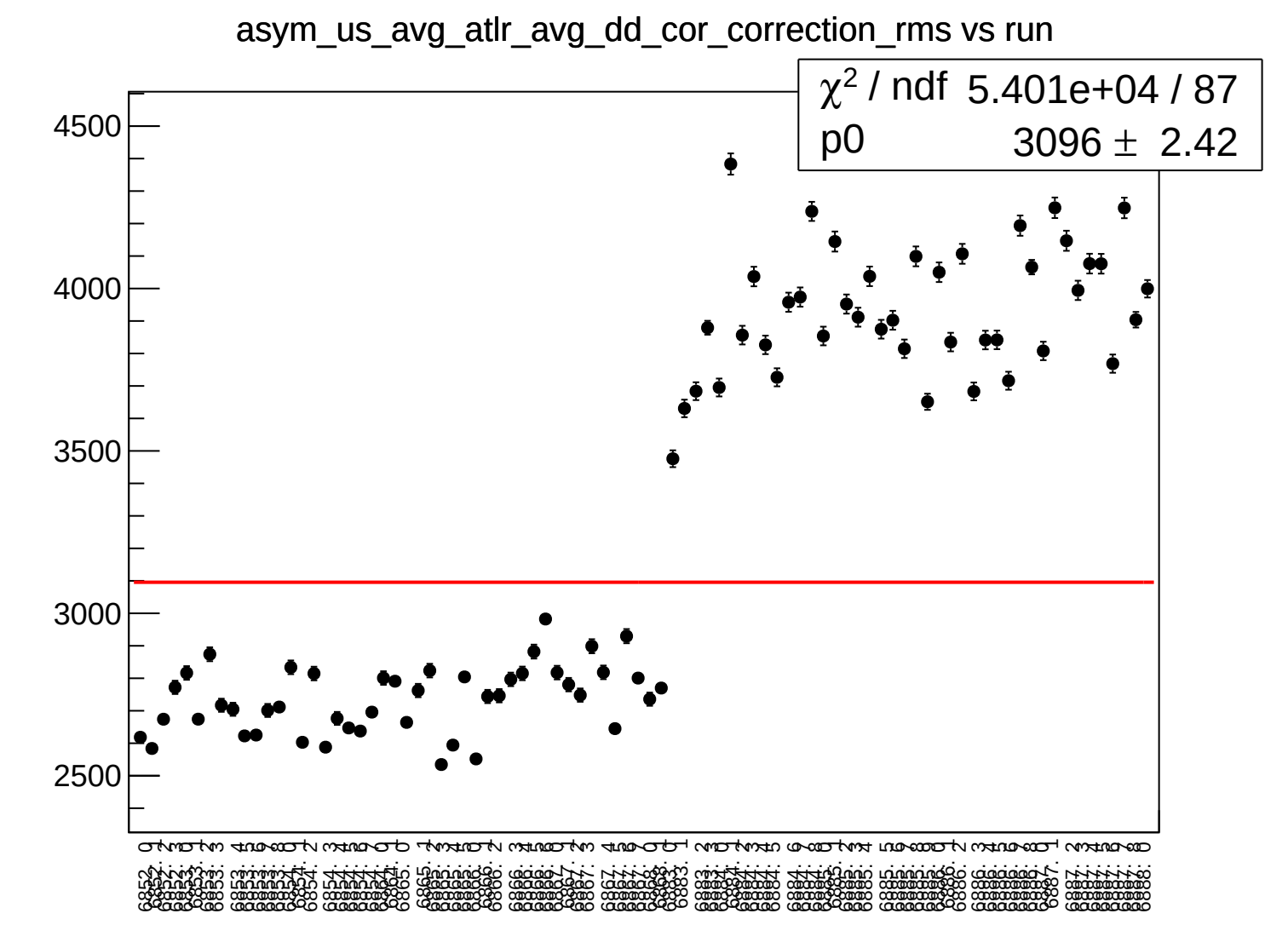

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 103.1 / 87
p0 799 ± 1192
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −853.1
Std Dev 0
3
2
1
0
−1
−2
−3

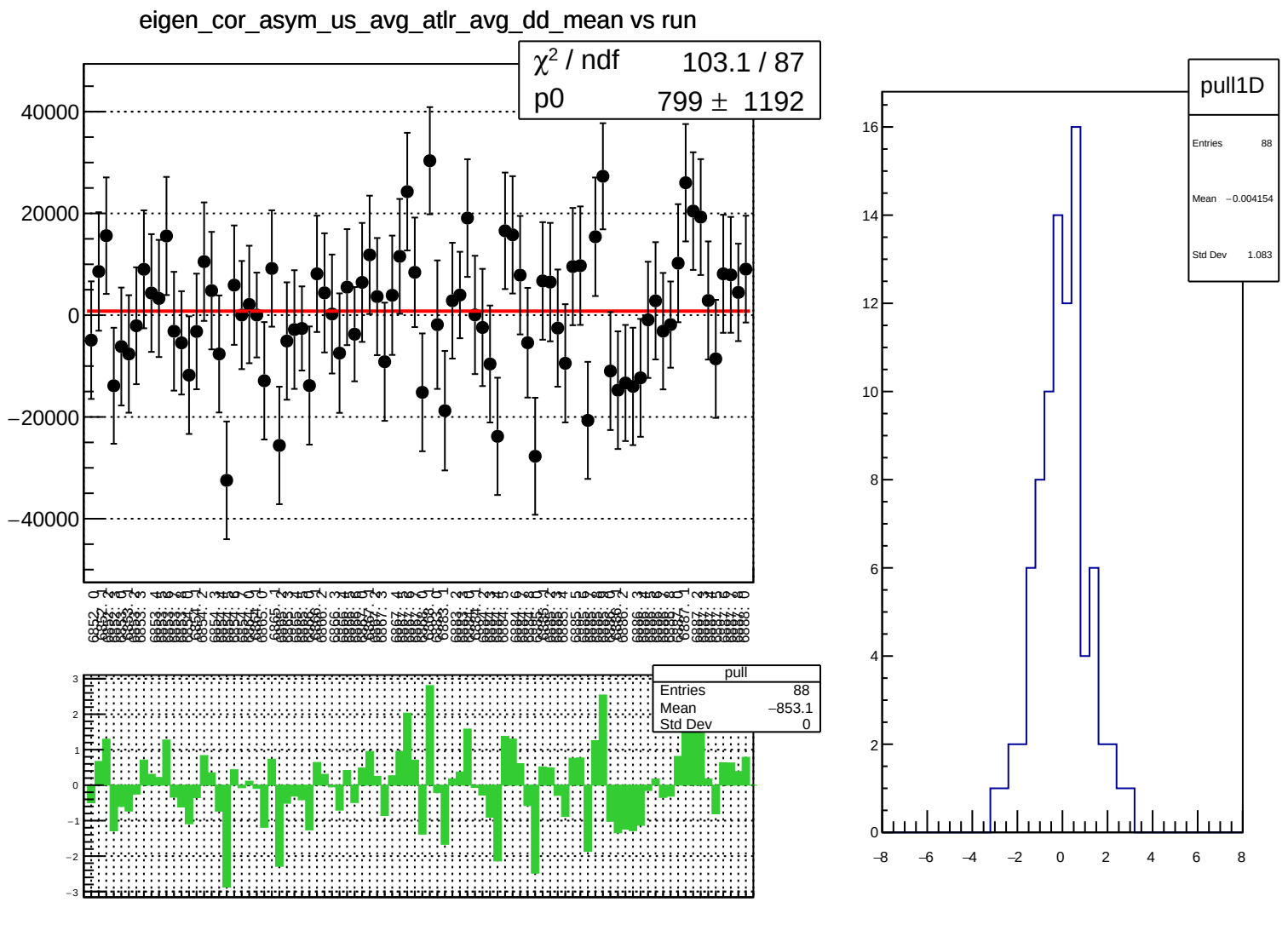

pull1D
Entries 88
Mean −0.004154
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

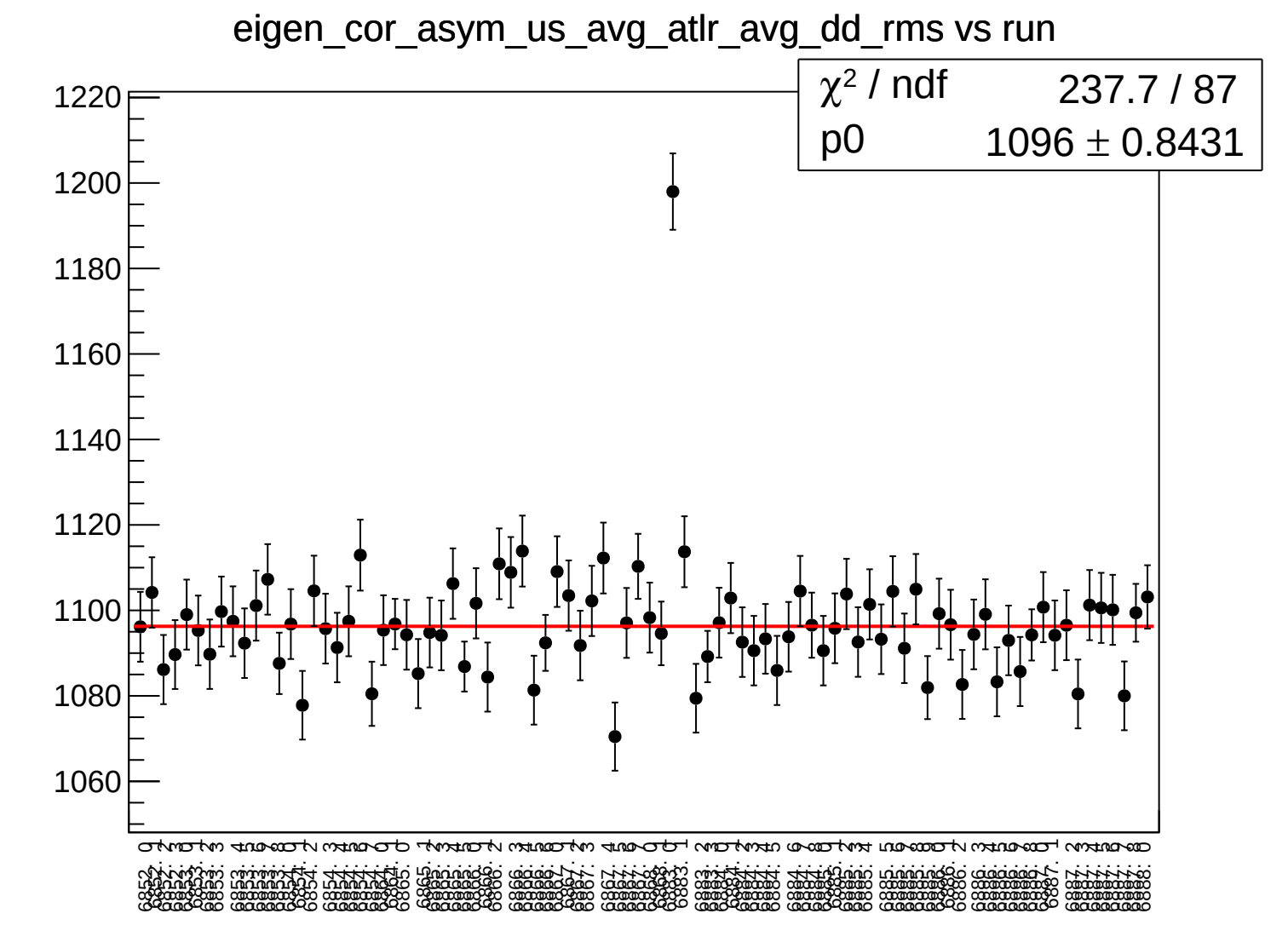

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 237.7 / 87
p0 1096 ± 0.8431
1220
1200
1180
1160
1140
1120
1100
1080
1060

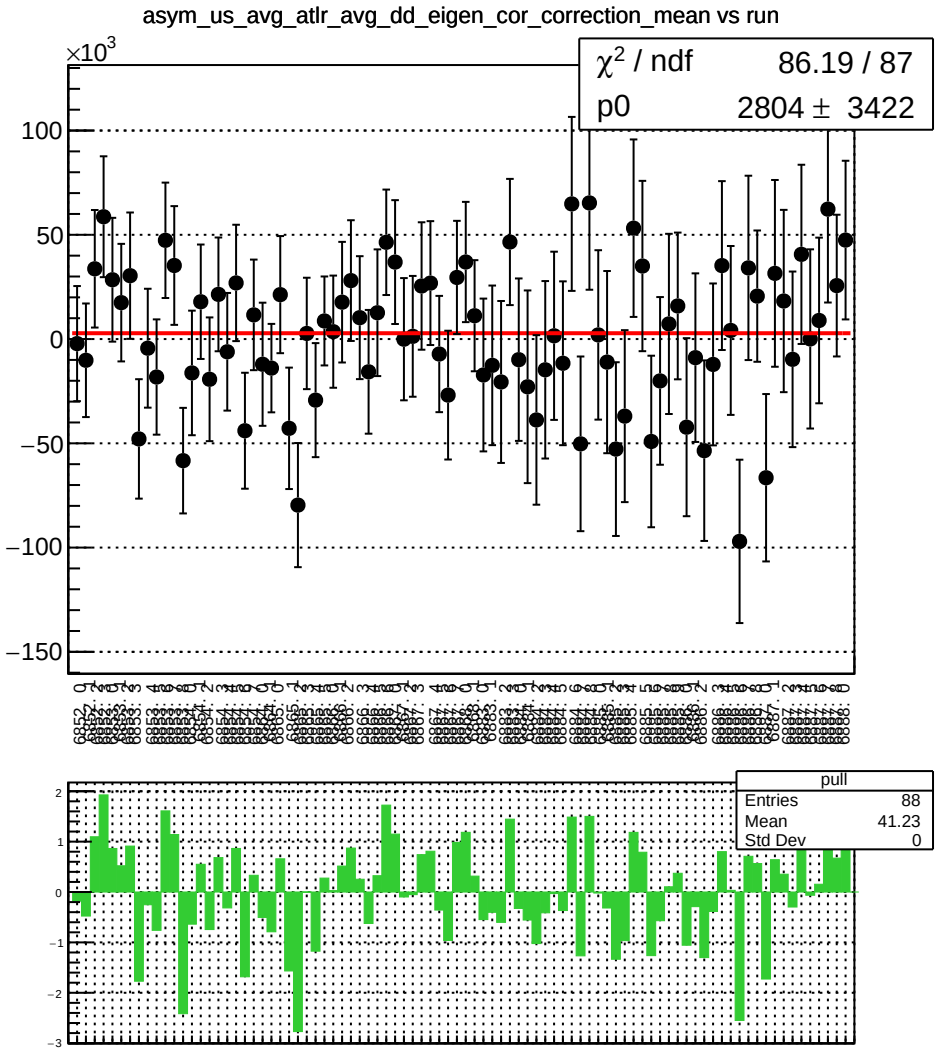

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.19 / 87
p0 2804 ± 3422
100
50
0
−50
−100
−150
pull
Entries 88
Mean 41.23
Std Dev 0
2
1
0
−1
−2
−3

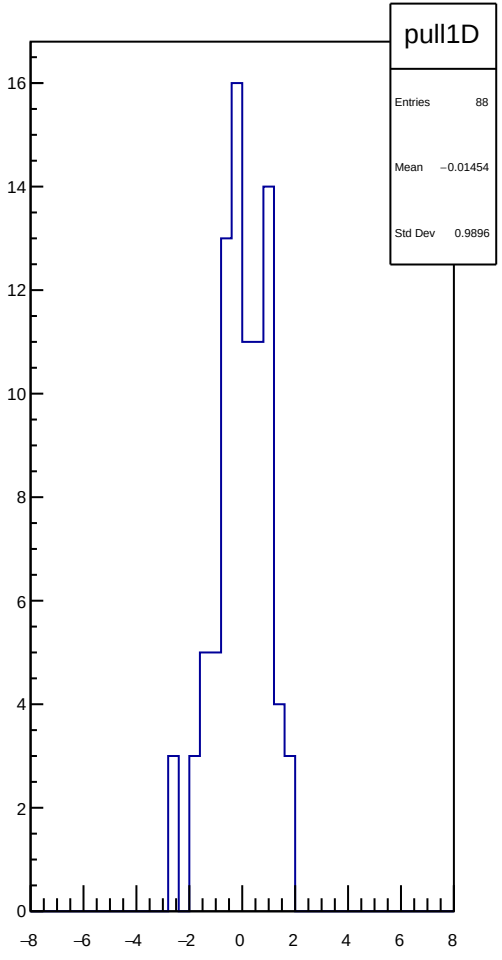

pull1D
Entries 88
Mean −0.01454
Std Dev 0.9896
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 5.401e+04 / 87
p0 3096 ± 2.42
4500
4000
3500
3000
2500


eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 103.1 / 87
p0 799 ± 1192
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −853.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.004154
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 237.7 / 87
p0 1096 ± 0.8431
1220
1200
1180
1160
1140
1120
1100
1080
1060


asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.19 / 87
p0 2804 ± 3422
100
50
0
−50
−100
−150
pull
Entries 88
Mean 41.23
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean −0.01454
Std Dev 0.9896
16
14
12
10
8
6
4
2
0
−8
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−4
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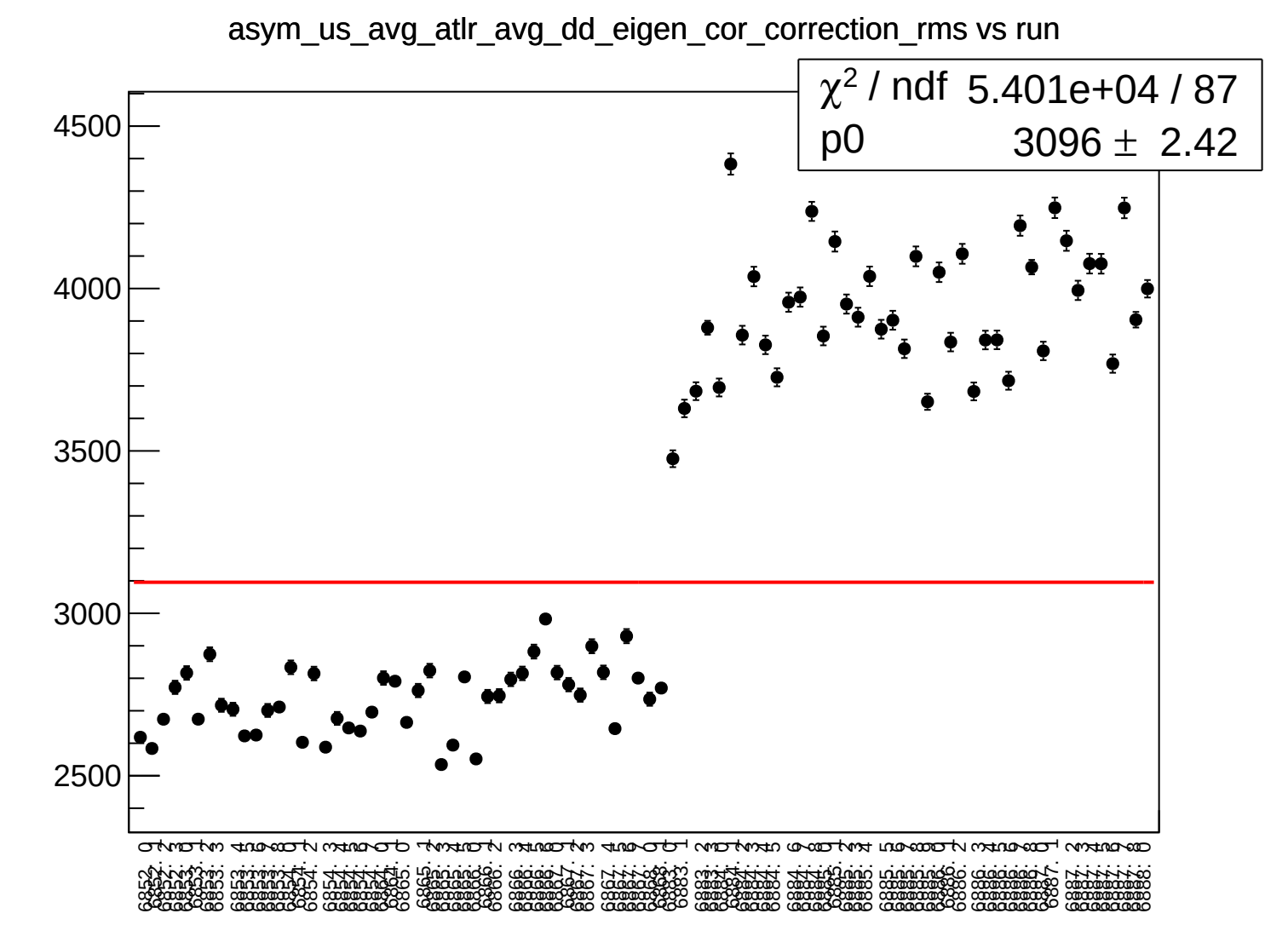
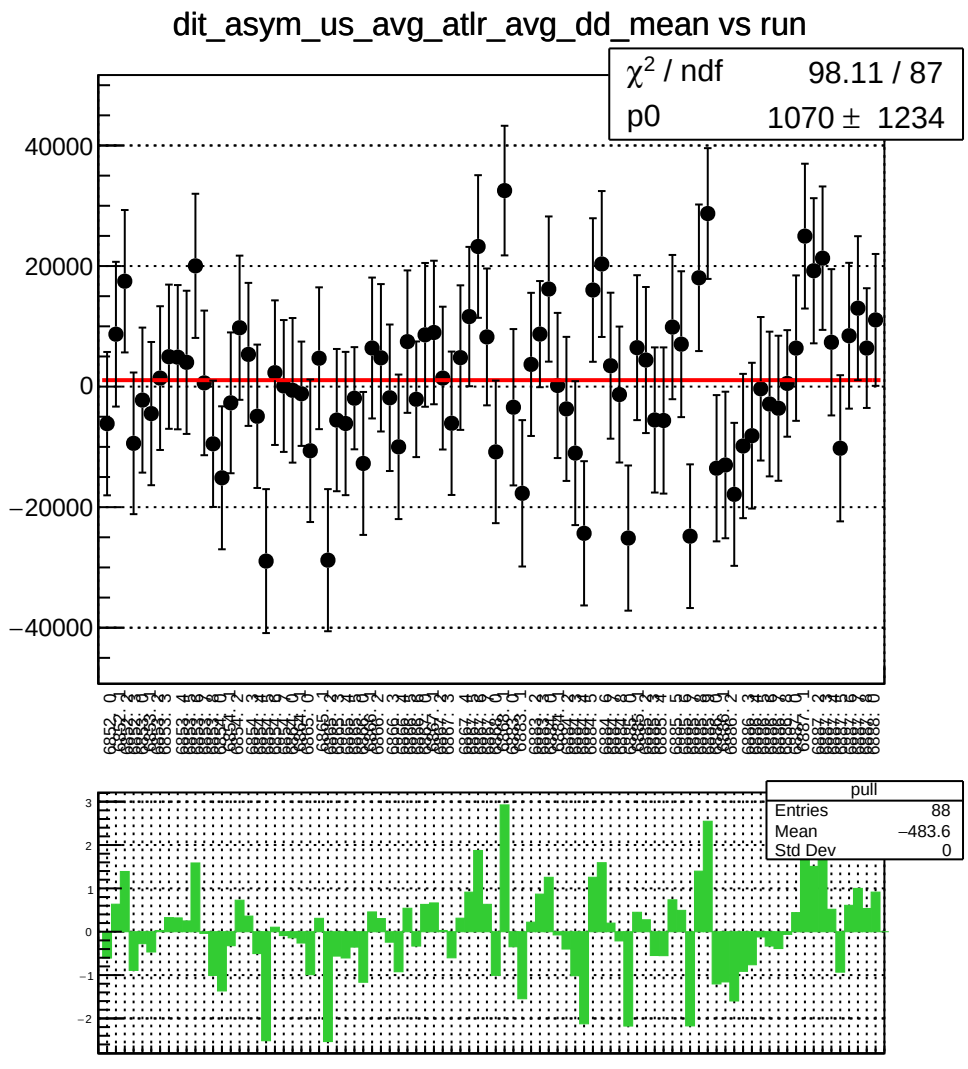
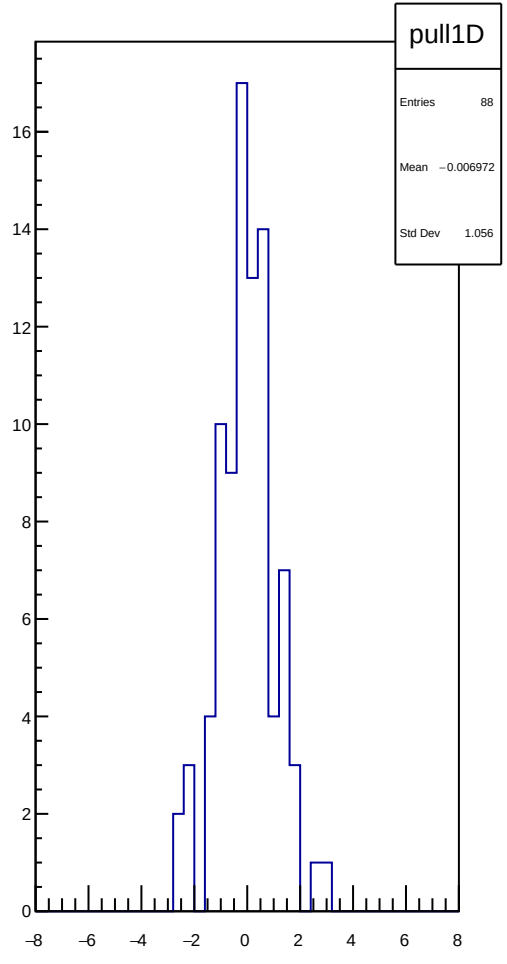
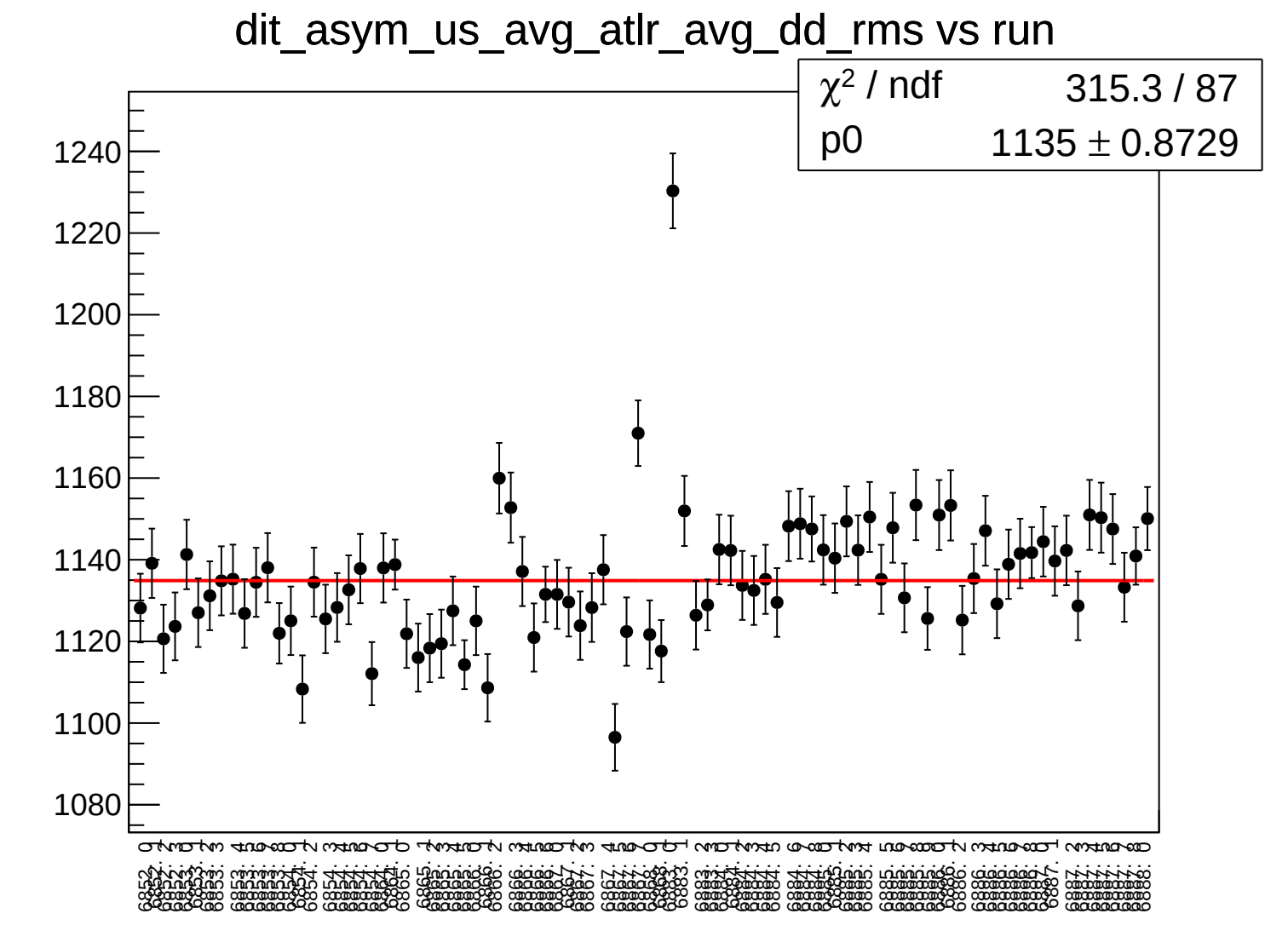
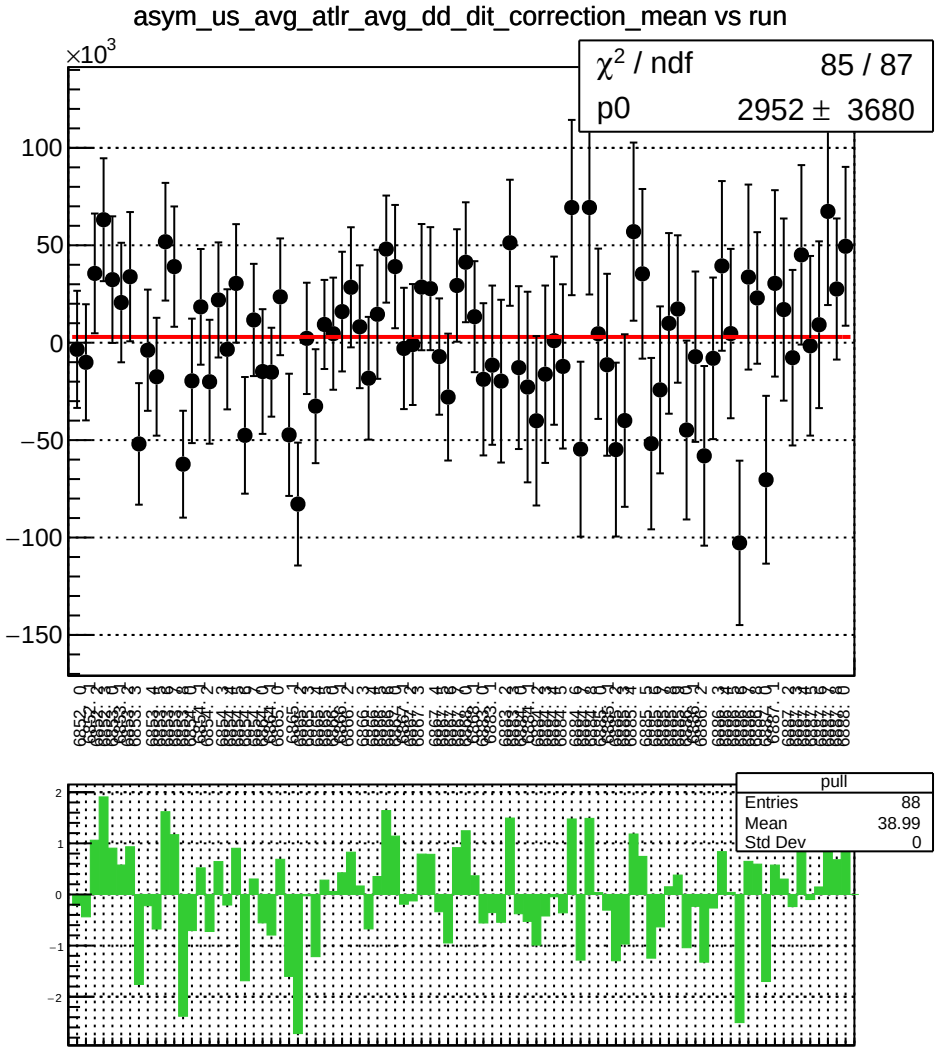
0
2
4
6
8

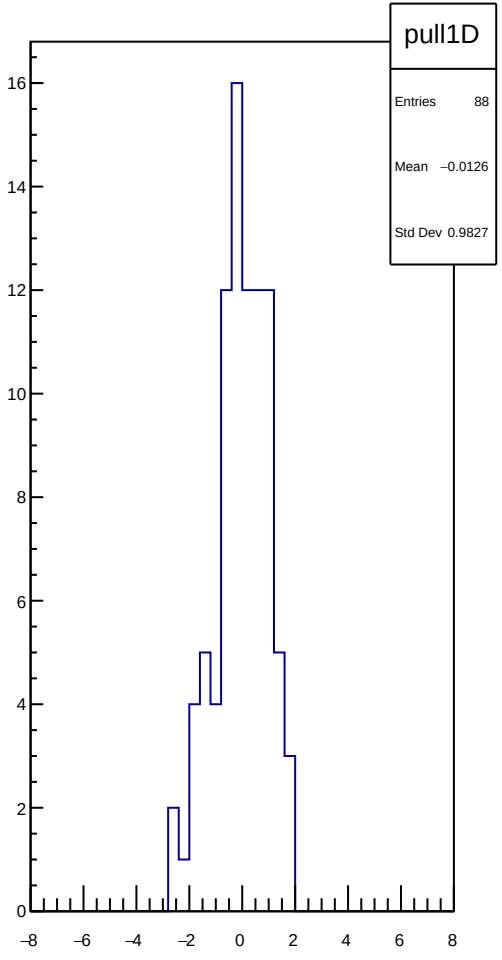

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.401e+04 / 87
p0 3096 ± 2.42
4500
4000
3500
3000
2500

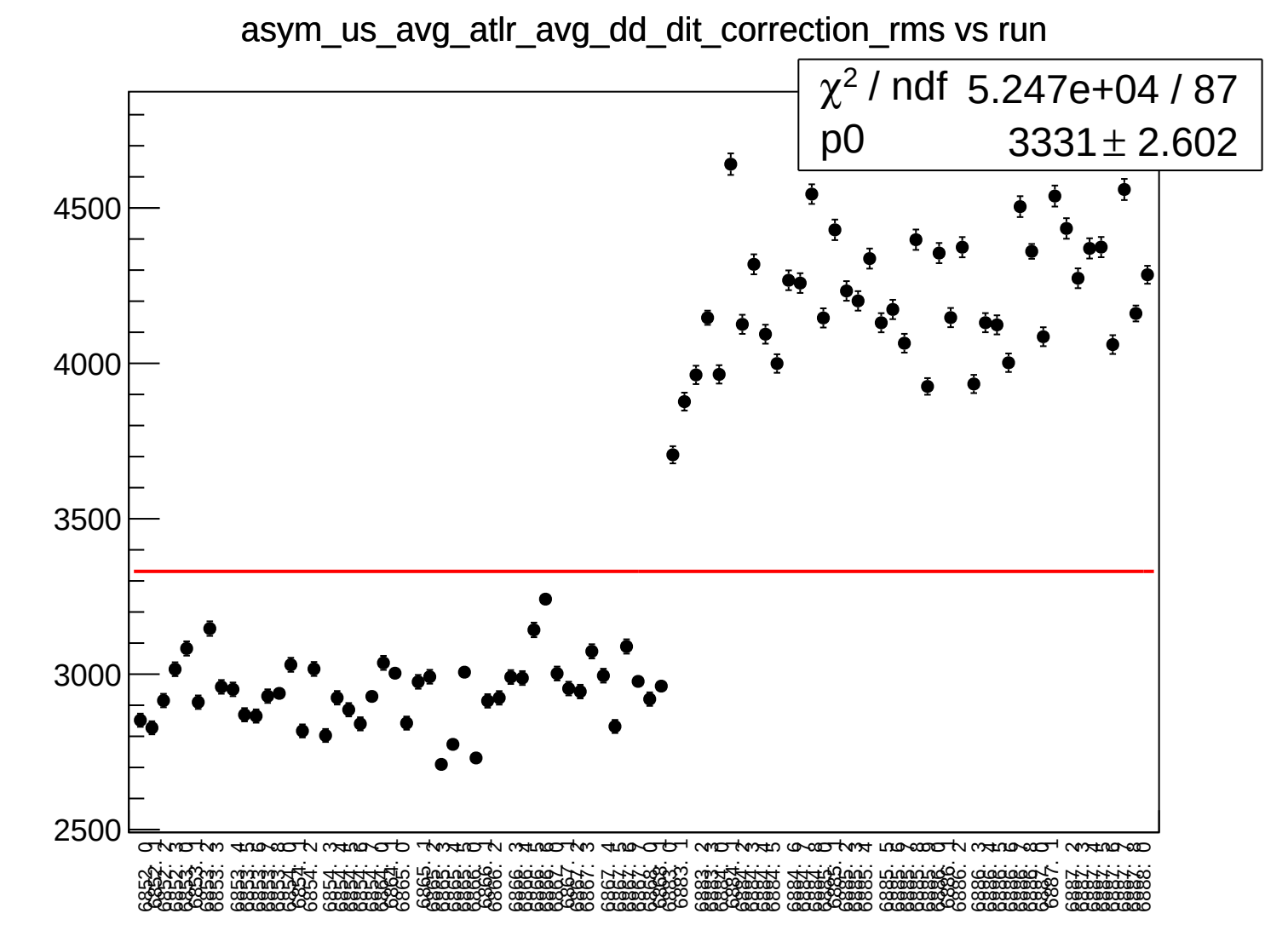

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 98.11 / 87
p0 1070 ± 1234
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −483.6
Std Dev 0
3
2
1
0
−1
−2

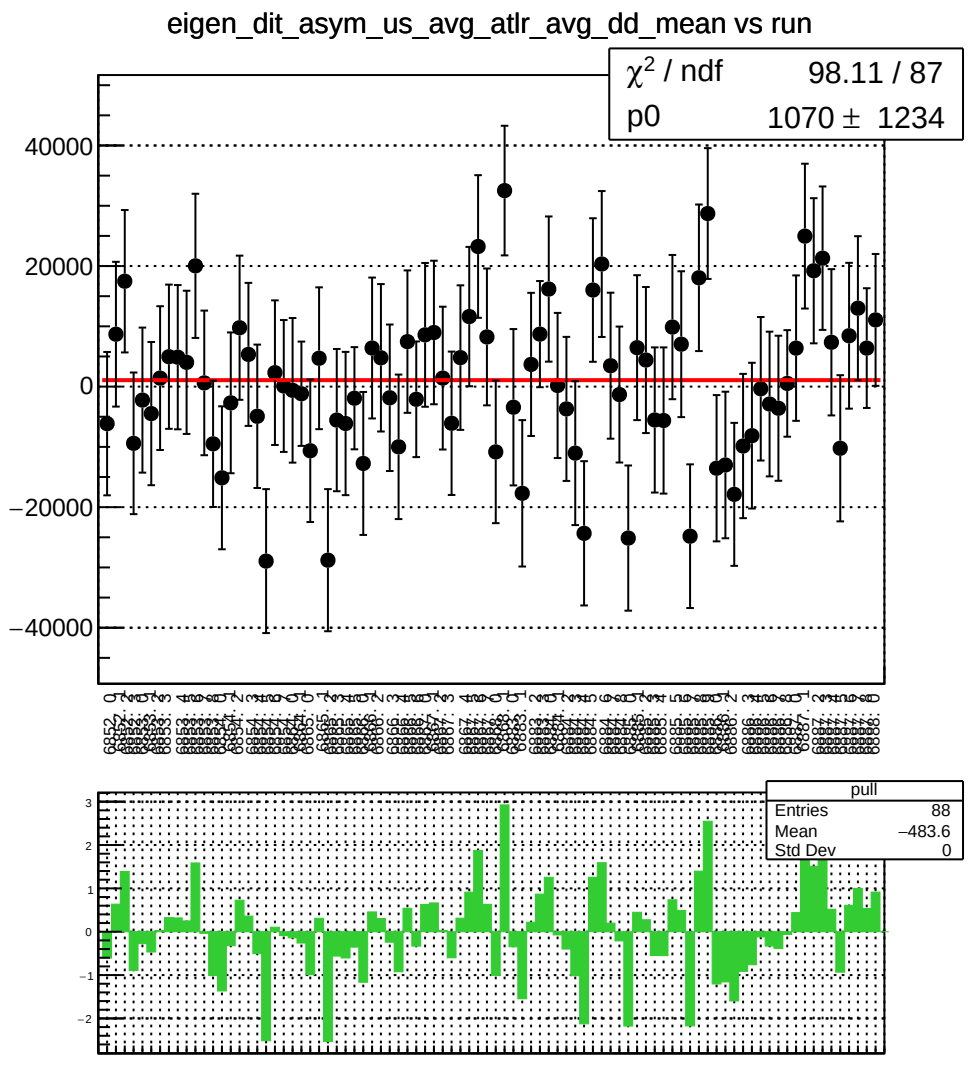

pull1D
Entries 88
Mean −0.006972
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

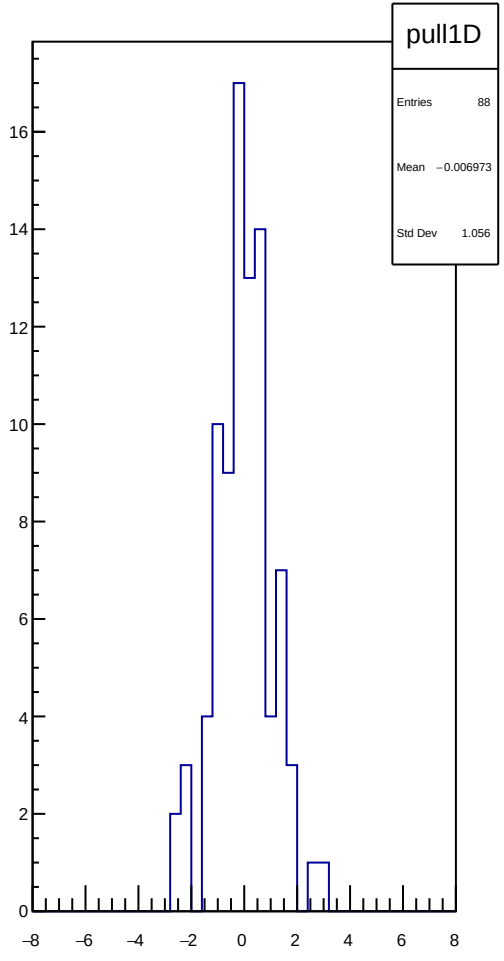

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 315.3 / 87
p0 1135 ± 0.8729
1240
1220
1200
1180
1160
1140
1120
1100
1080

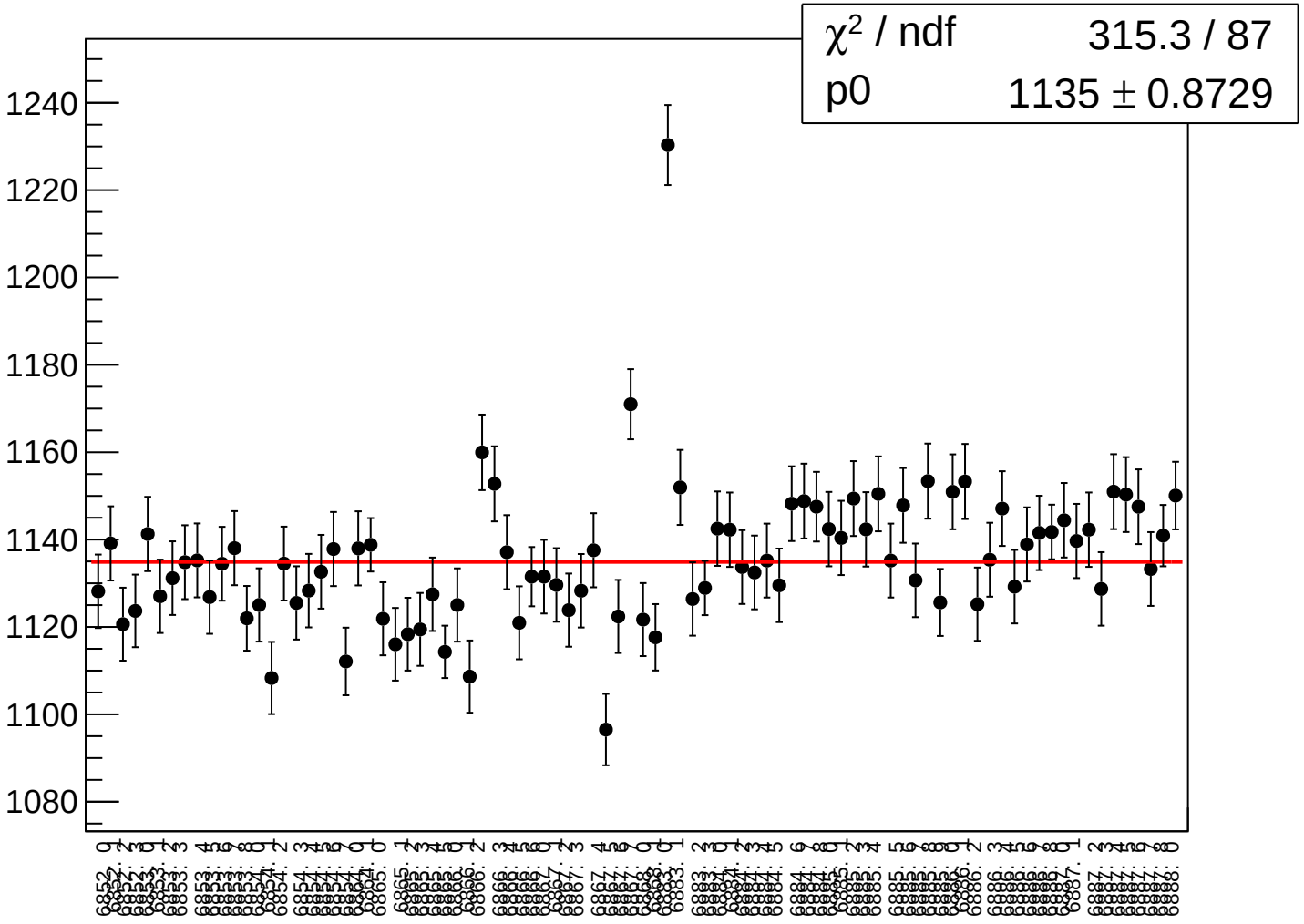

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85 / 87
p0 2952 ± 3680
100
50
0
−50
−100
−150
pull
Entries 88
Mean 38.99
Std Dev 0
2
1
0
−1
−2

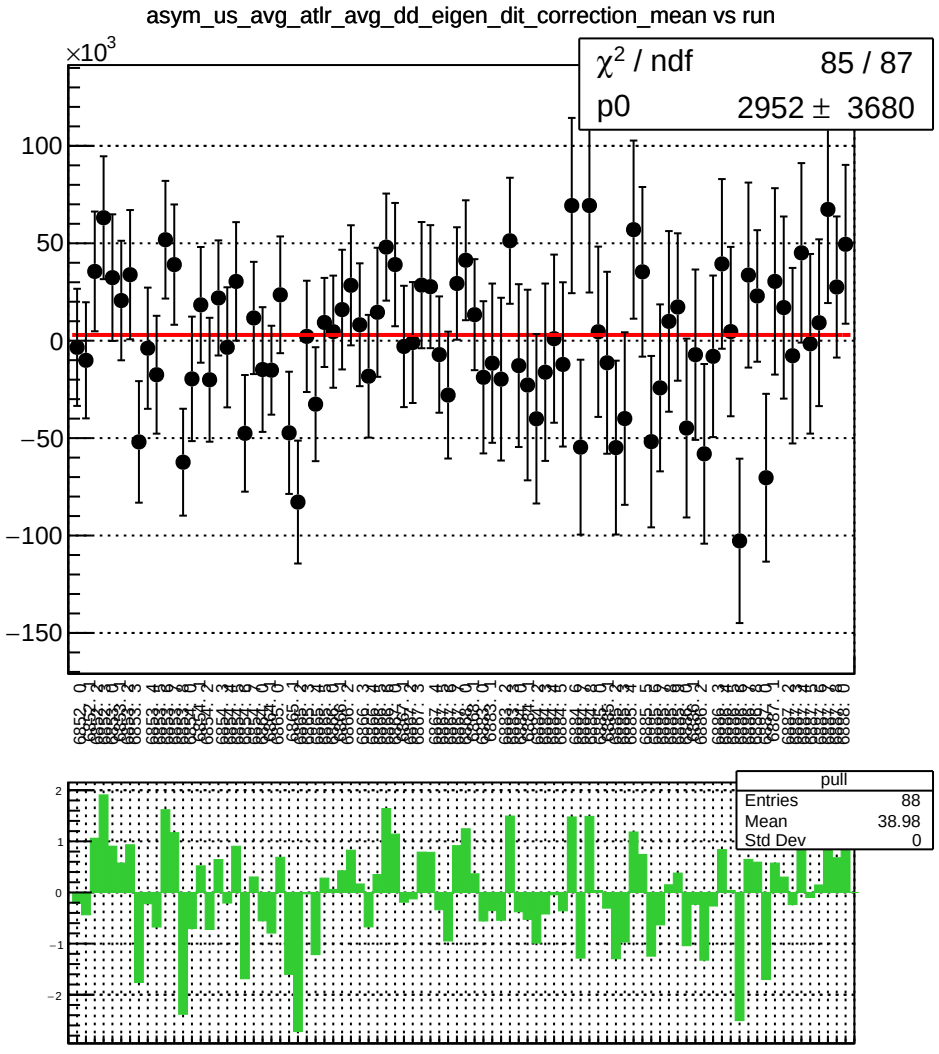

pull1D
Entries 88
Mean −0.0126
Std Dev 0.9827
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

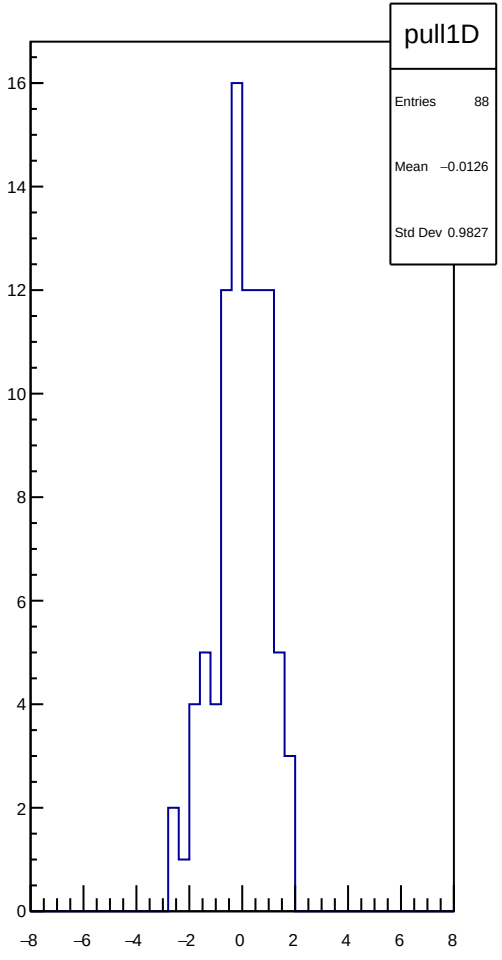

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ^2 / ndf 5.247e+04 / 87
p0 3331 ± 2.602
4500
4000
3500
3000
2500

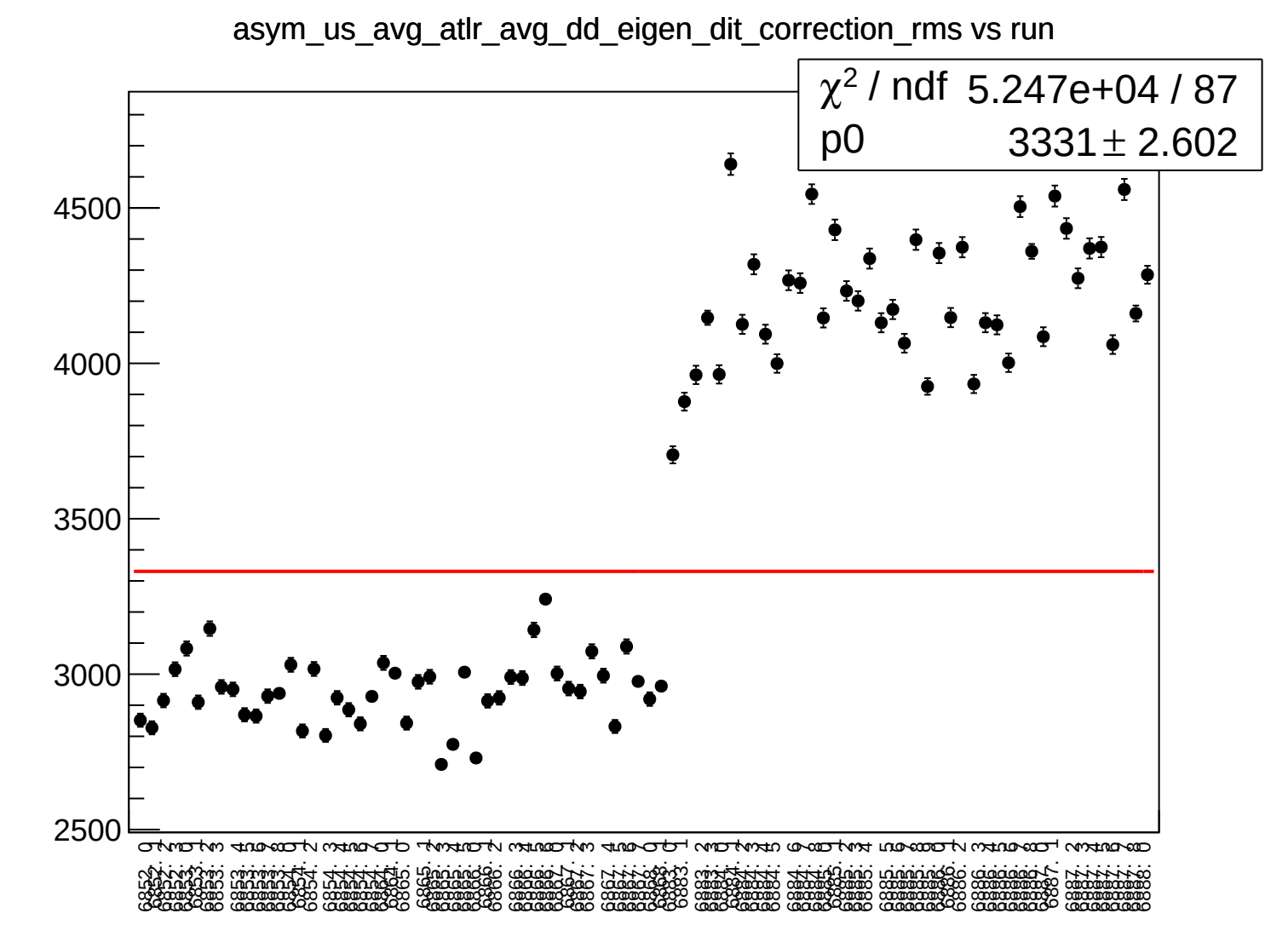

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 98.11 / 87
p0 1070 ± 1234
40000
20000
0
−20000
−40000
pull
Entries 88
Mean −483.6
Std Dev 0
3
2
1
0
−1
−2

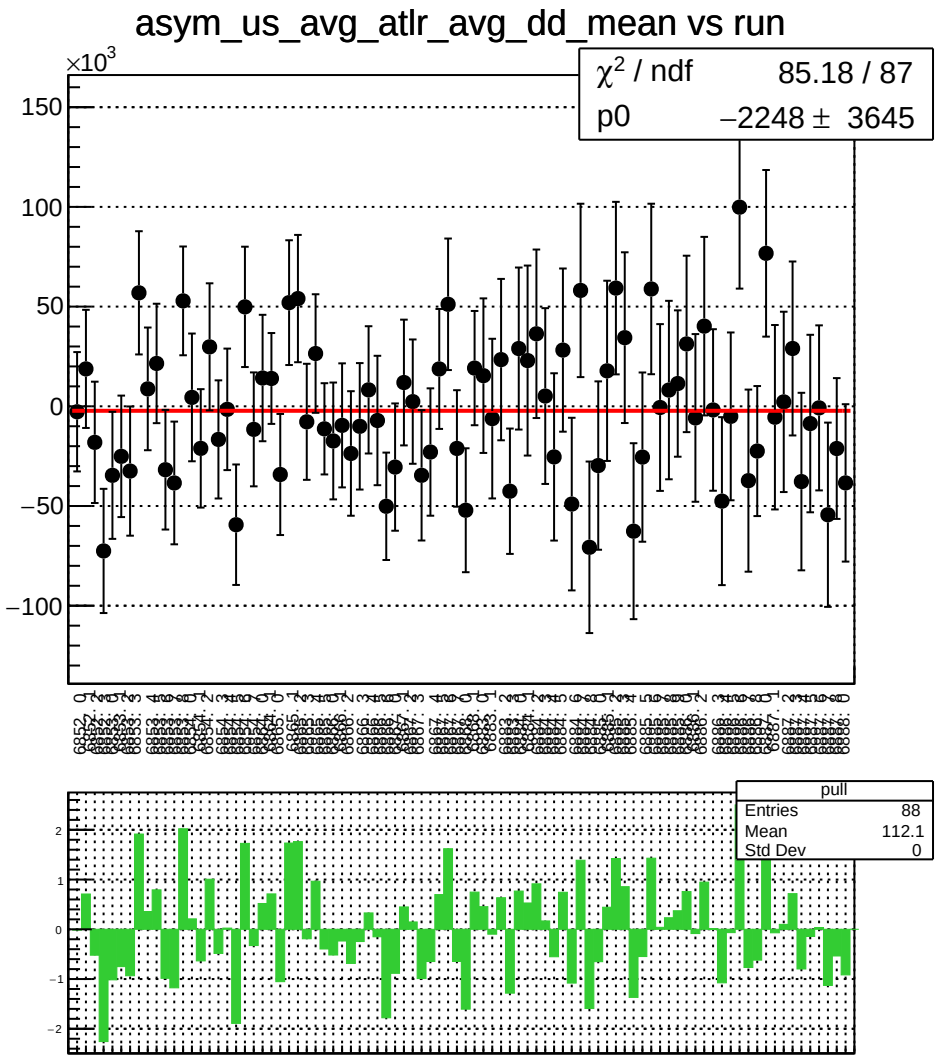

pull1D
Entries 88
Mean −0.006973
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

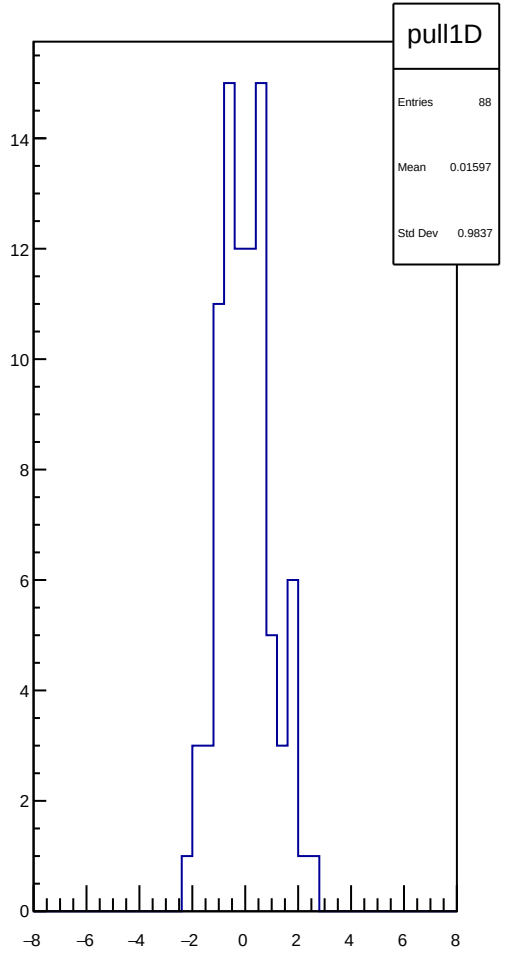

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 315.3 / 87
p0 1135 ± 0.8729
1240
1220
1200
1180
1160
1140
1120
1100
1080

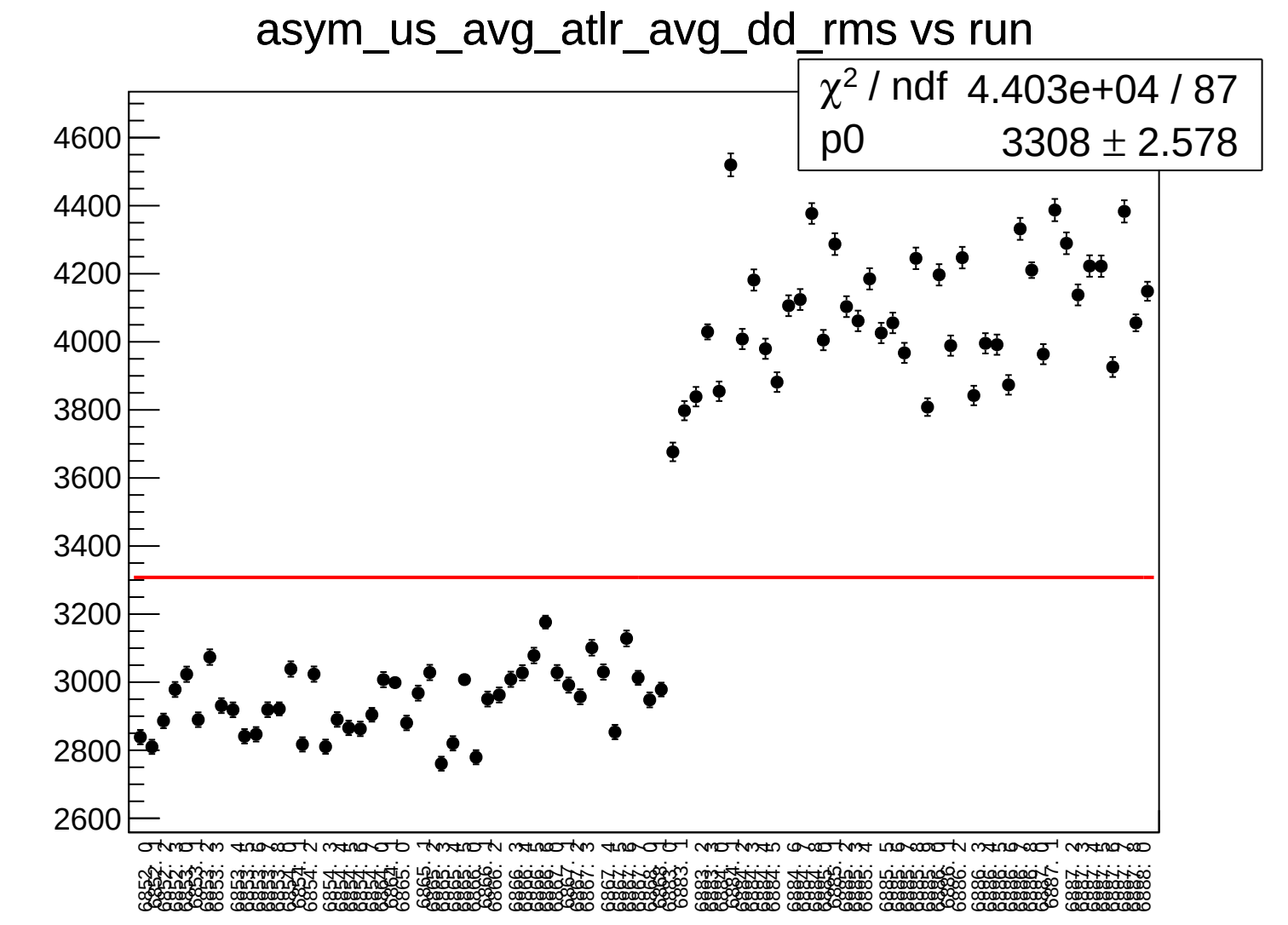

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85 / 87
p0 2952 ± 3680
100
50
0
−50
−100
−150
pull
Entries 88
Mean 38.98
Std Dev 0
2
1
0
−1
−2

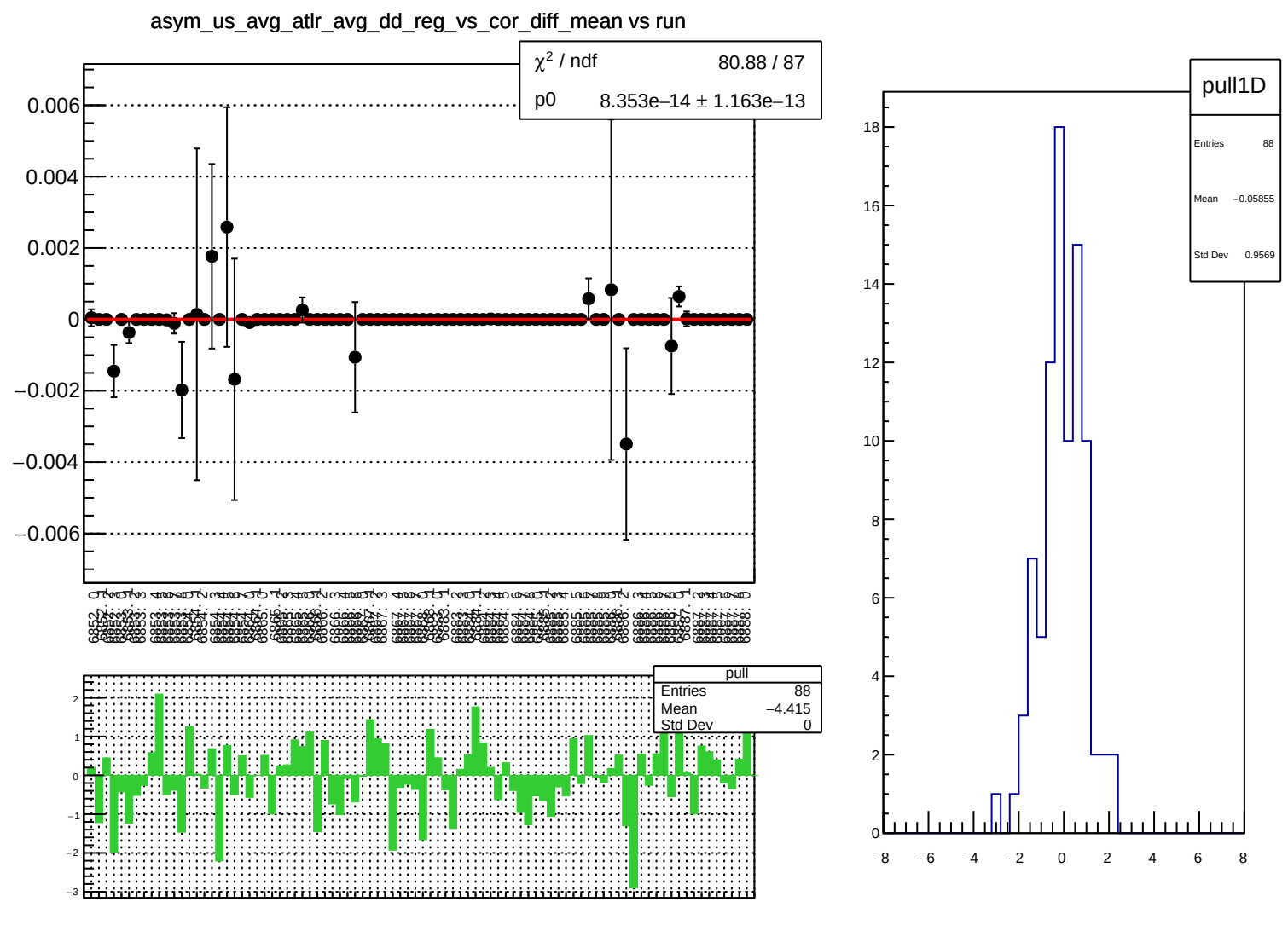

pull1D
Entries 88
Mean −0.0126
Std Dev 0.9827
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

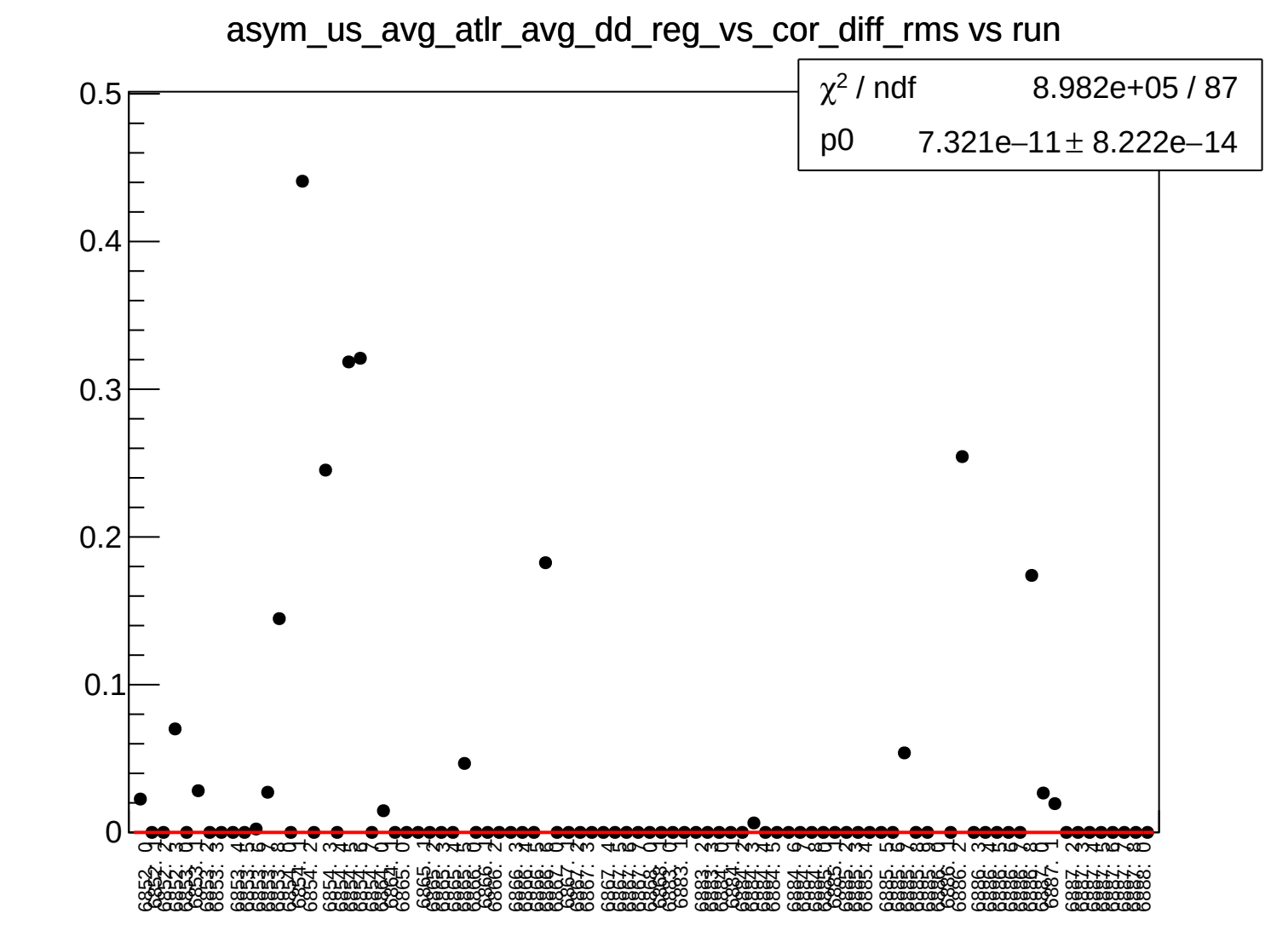

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 5.247e+04 / 87
p0 3331 ± 2.602
4500
4000
3500
3000
2500

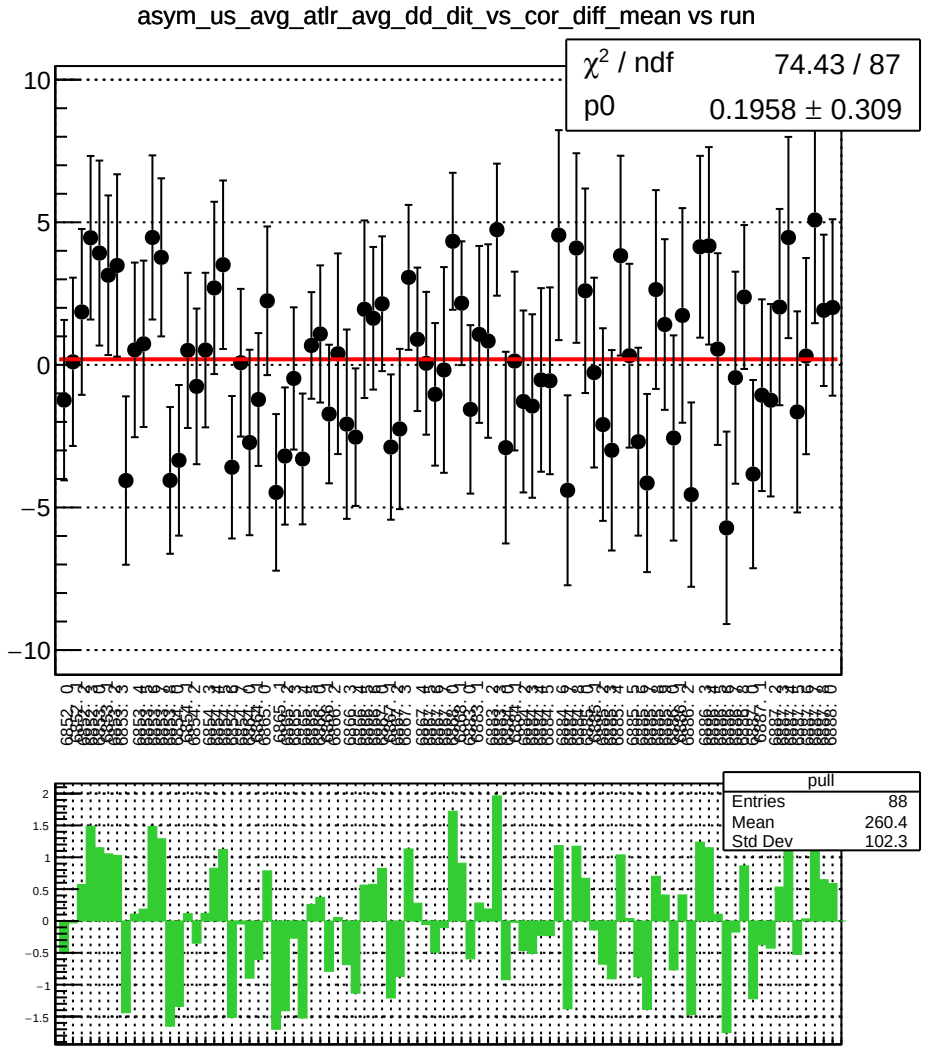

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 85.18 / 87
p0 −2248 ± 3645
150
100
50
0
−50
−100
pull
Entries 88
Mean 112.1
Std Dev 0
2
1
0
−1
−2

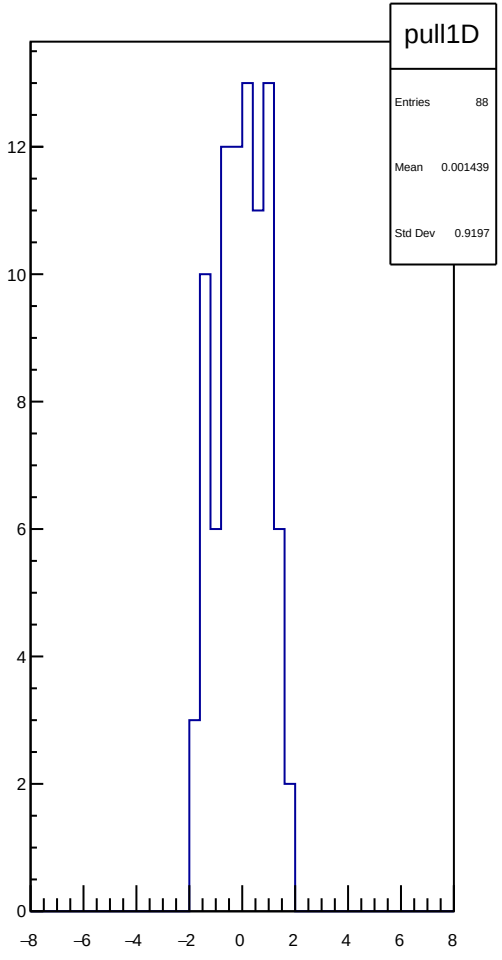

pull1D
Entries 88
Mean 0.01597
Std Dev 0.9837
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

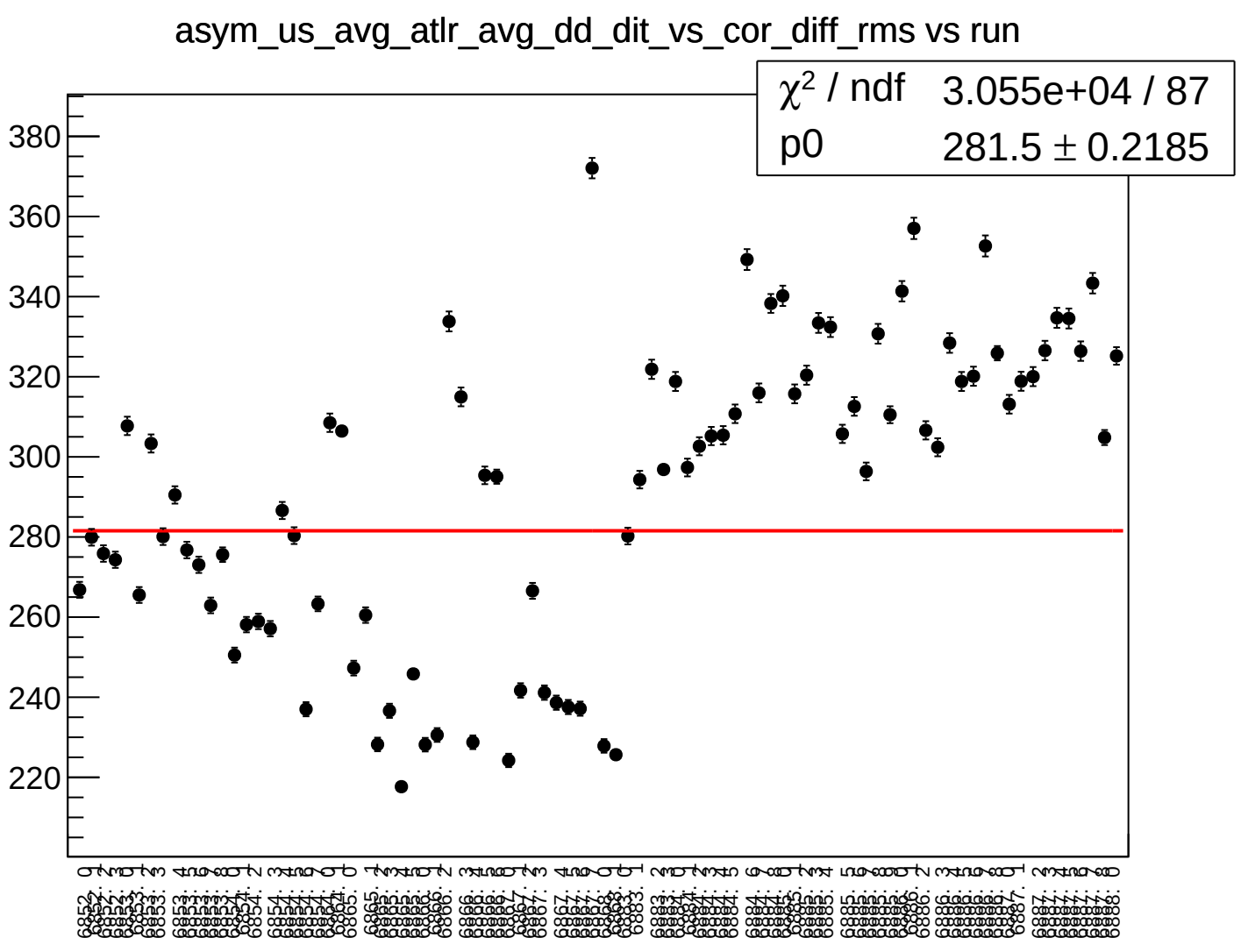

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 4.403e+04 / 87
p0 3308 ± 2.578
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600

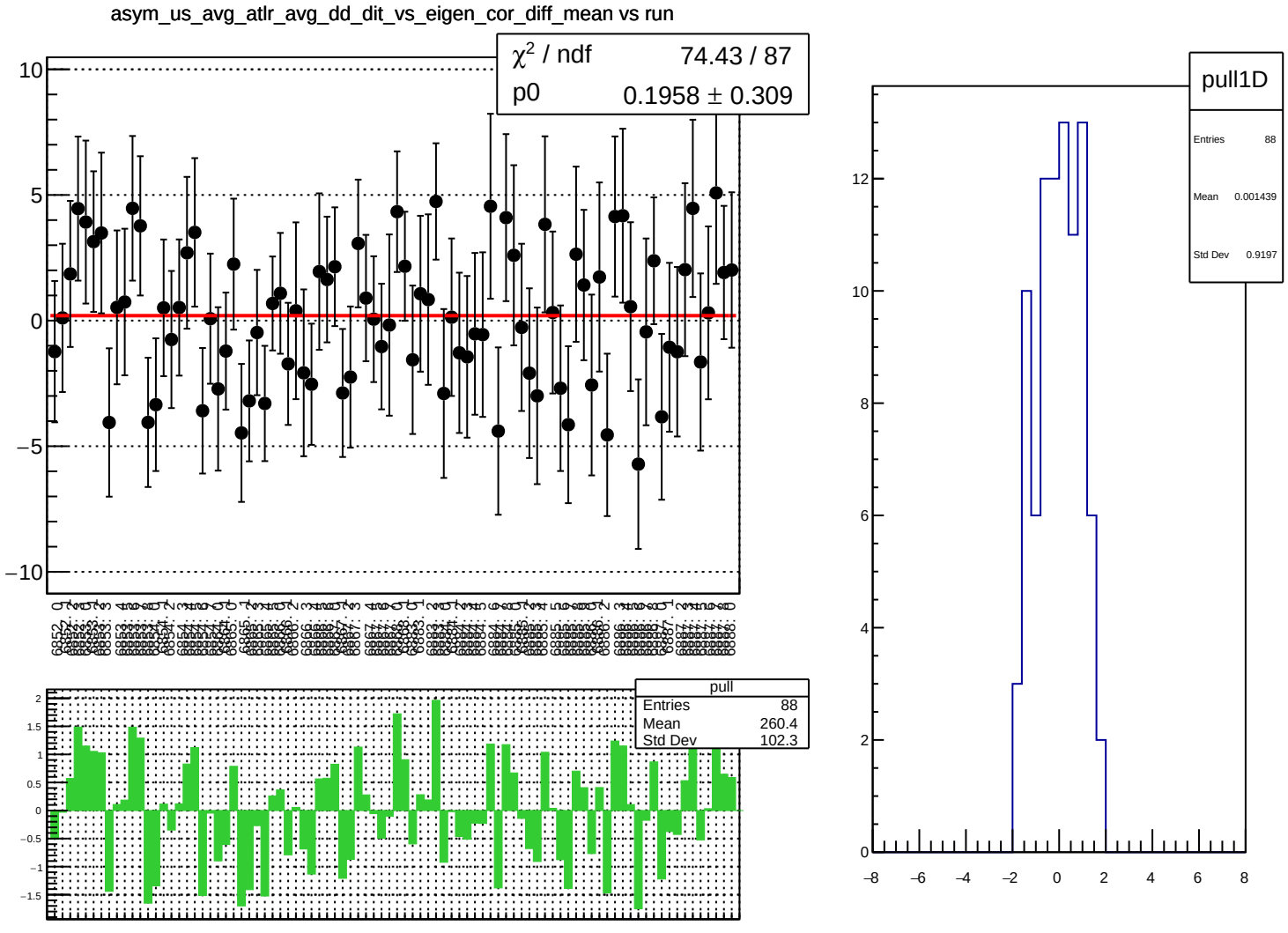

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.88 / 87
p0 8.353e−14 ± 1.163e−13
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 88
Mean −4.415
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.05855
Std Dev 0.9569
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

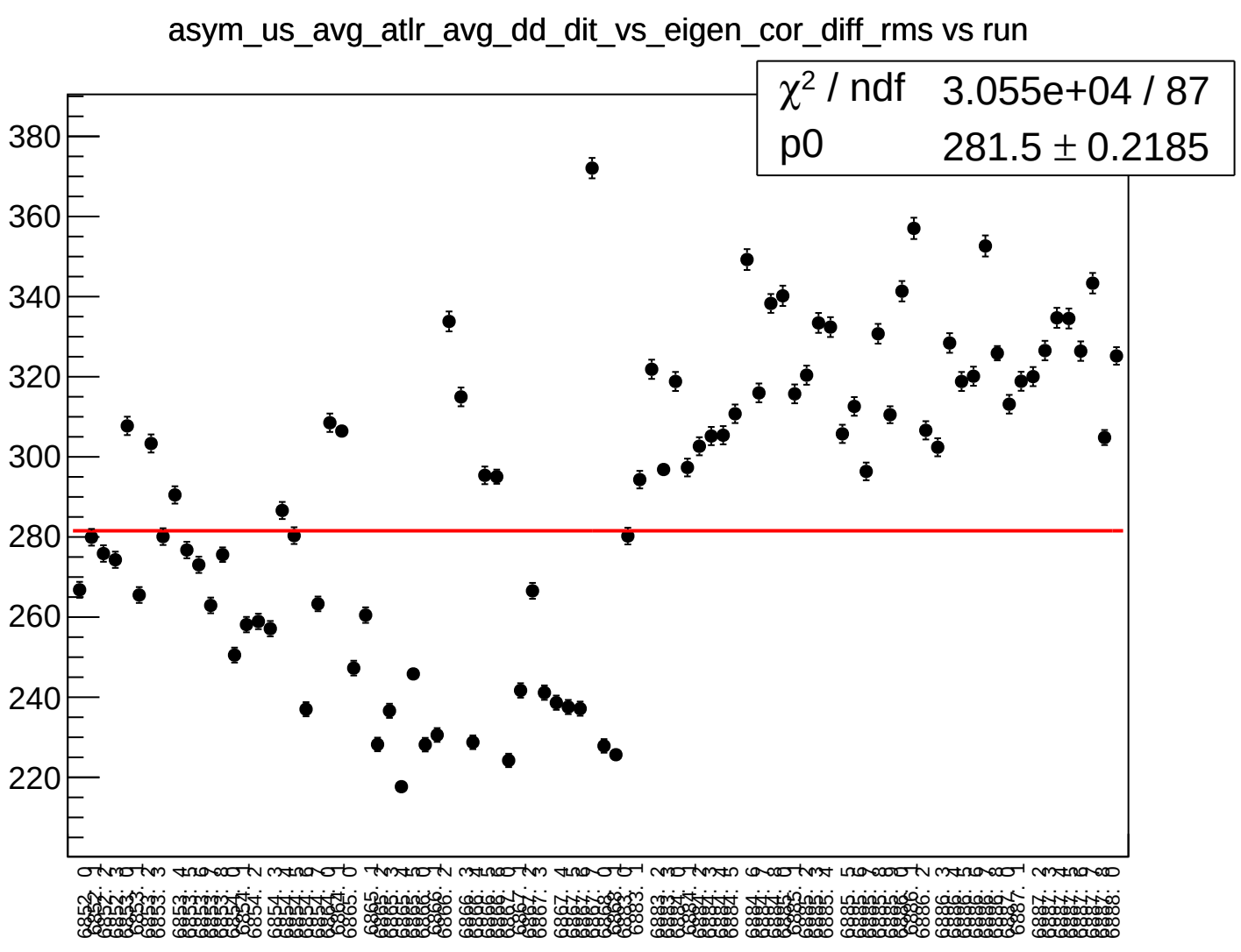

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.982e+05 / 87
p0 7.321e−11 ± 8.222e−14
0.5
0.4
0.3
0.2
0.1
0

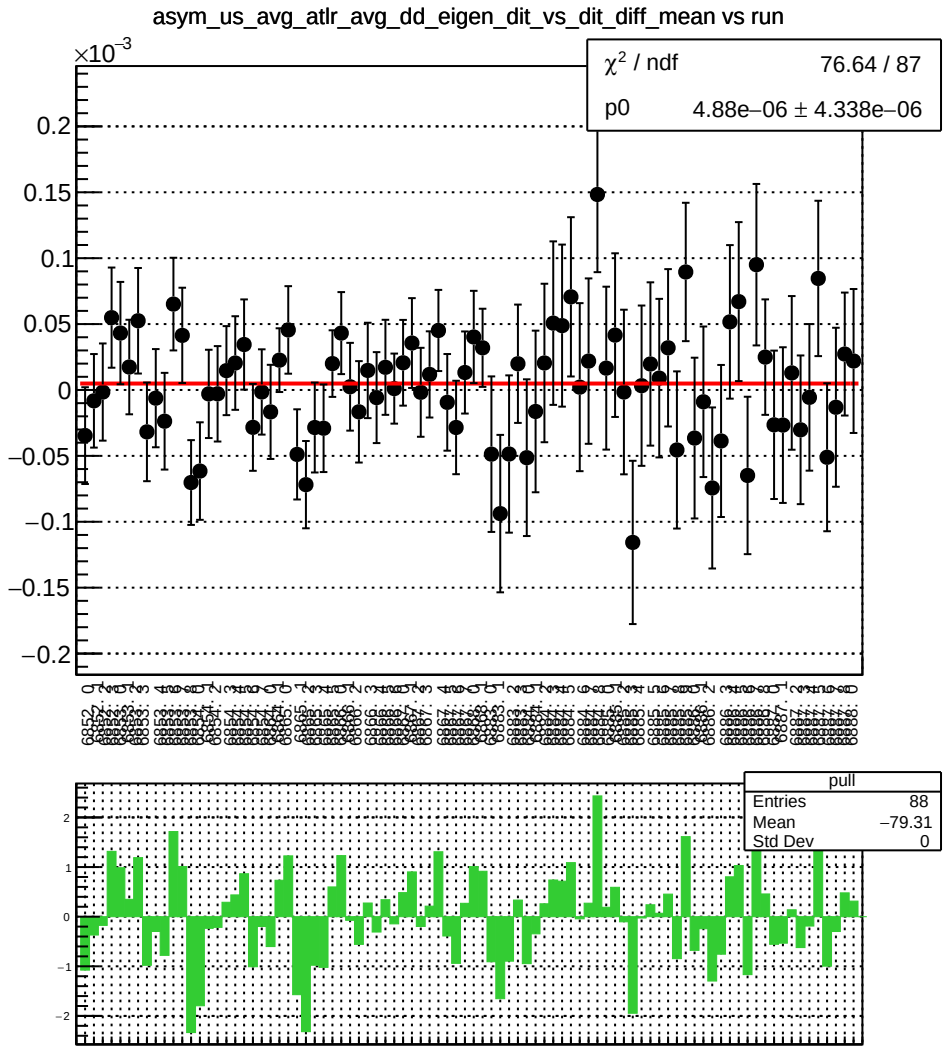

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.43 / 87
p0 0.1958 ± 0.309
pull
Entries 88
Mean 260.4
Std Dev 102.3

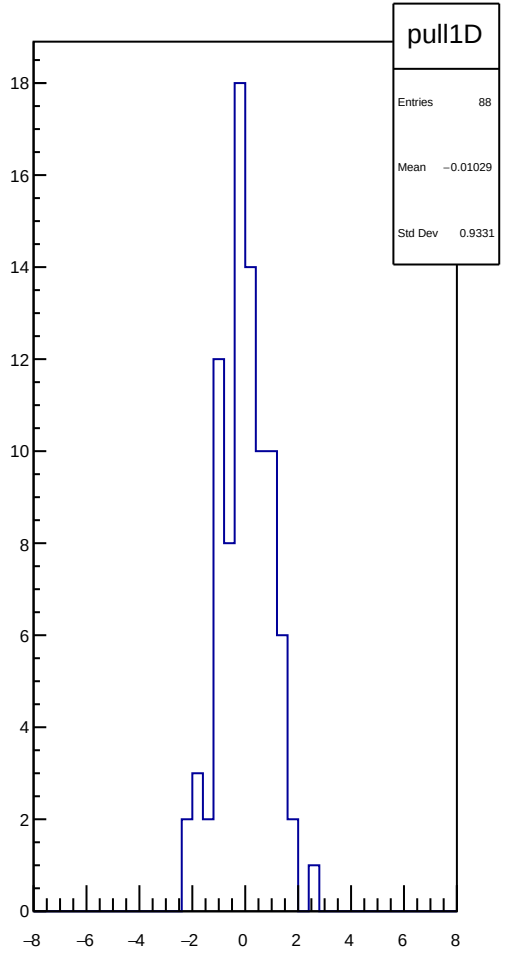

pull1D
Entries 88
Mean 0.001439
Std Dev 0.9197

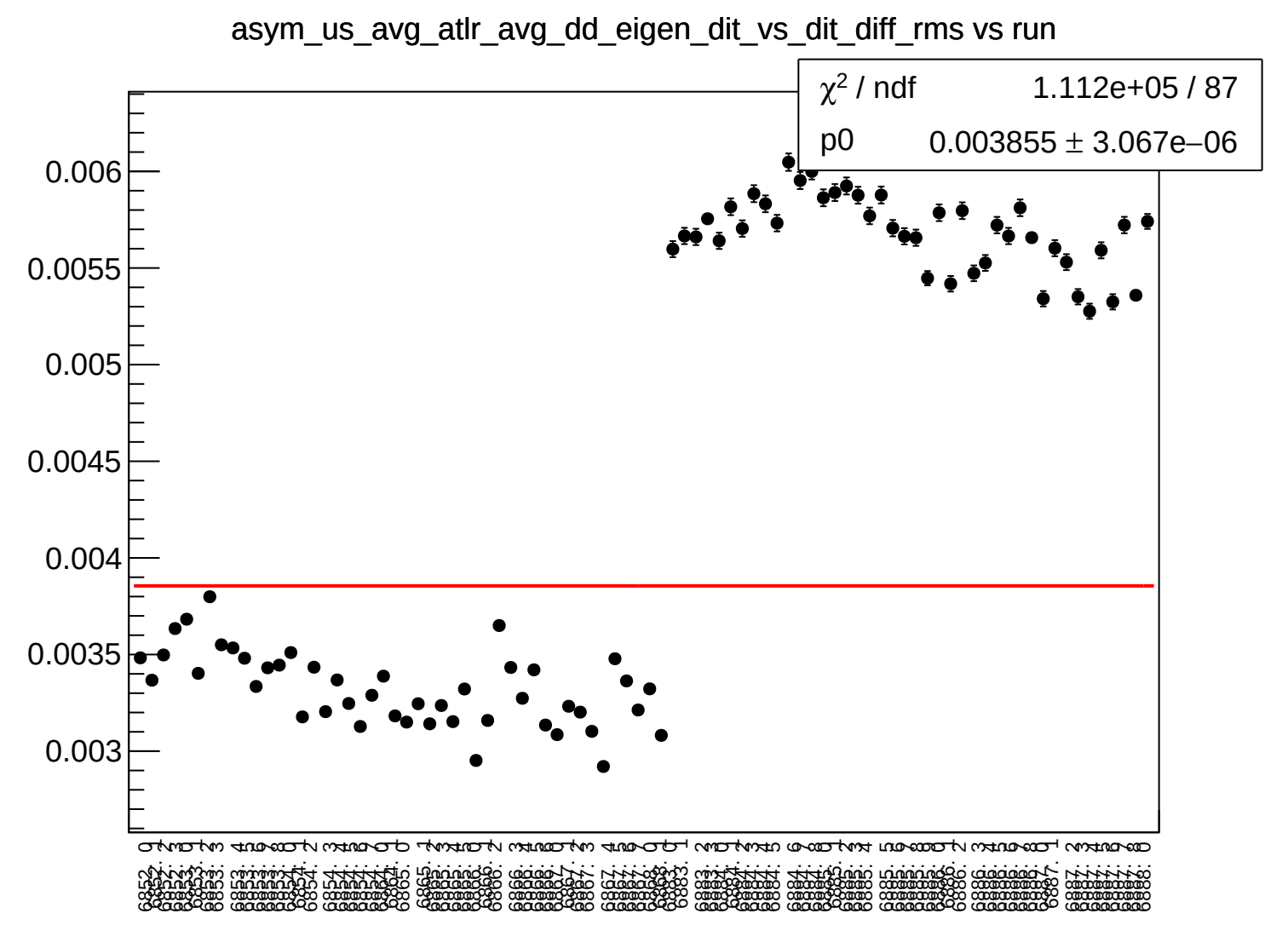

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.055e+04 / 87
p0 281.5 ± 0.2185
380
360
340
320
300
280
260
240
220

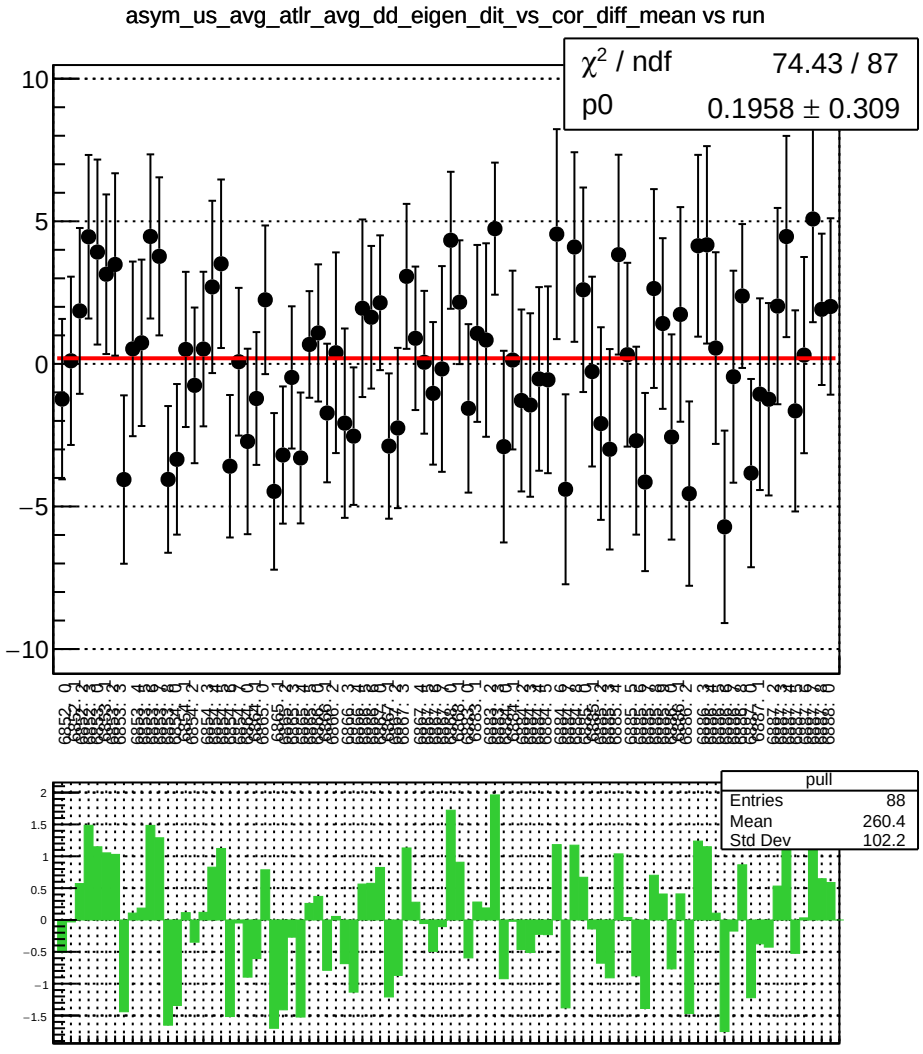

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.43 / 87
p0 0.1958 ± 0.309
pull
Entries 88
Mean 260.4
Std Dev 102.3
pull1D
Entries 88
Mean 0.001439
Std Dev 0.9197

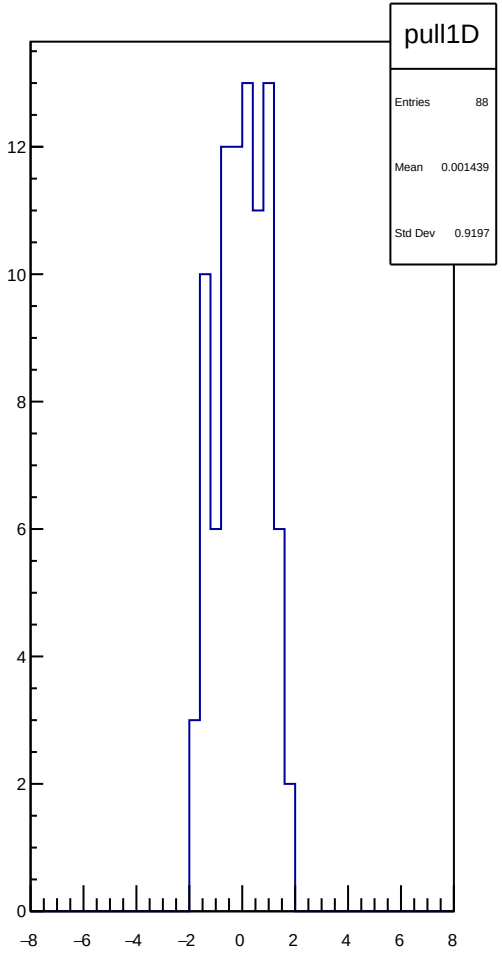

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.055e+04 / 87
p0 281.5 ± 0.2185
380
360
340
320
300
280
260
240
220

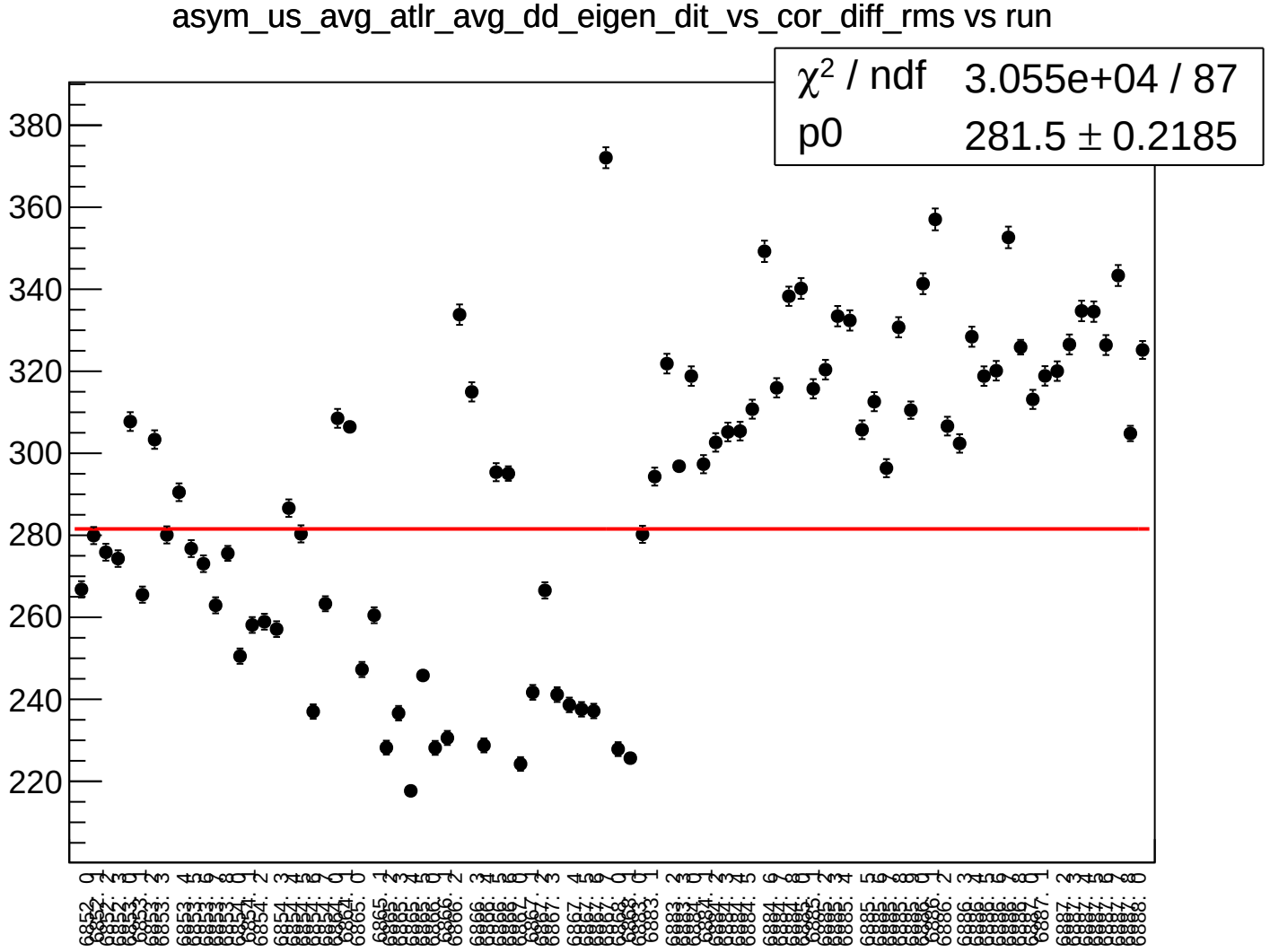

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.64 / 87
p0 4.88e−06 ± 4.338e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 88
Mean −79.31
Std Dev 0
2
1
0
−1
−2

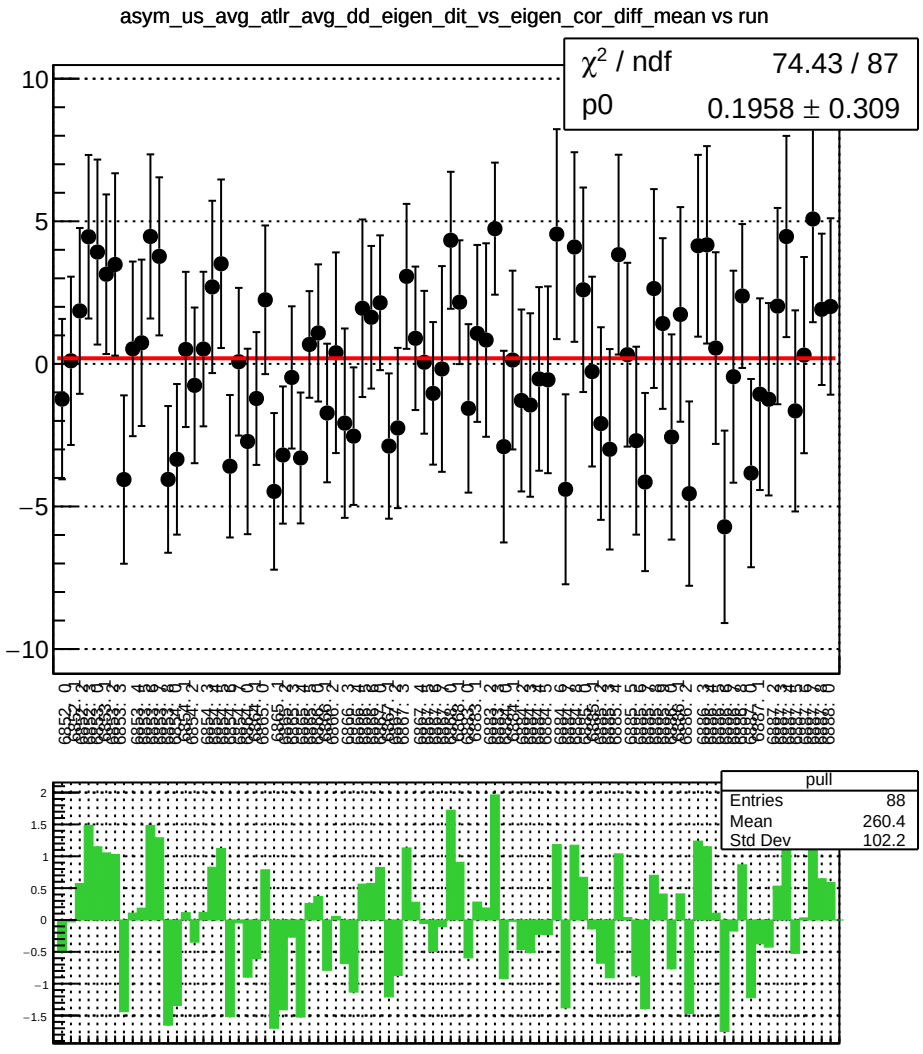

pull1D
Entries 88
Mean −0.01029
Std Dev 0.9331
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

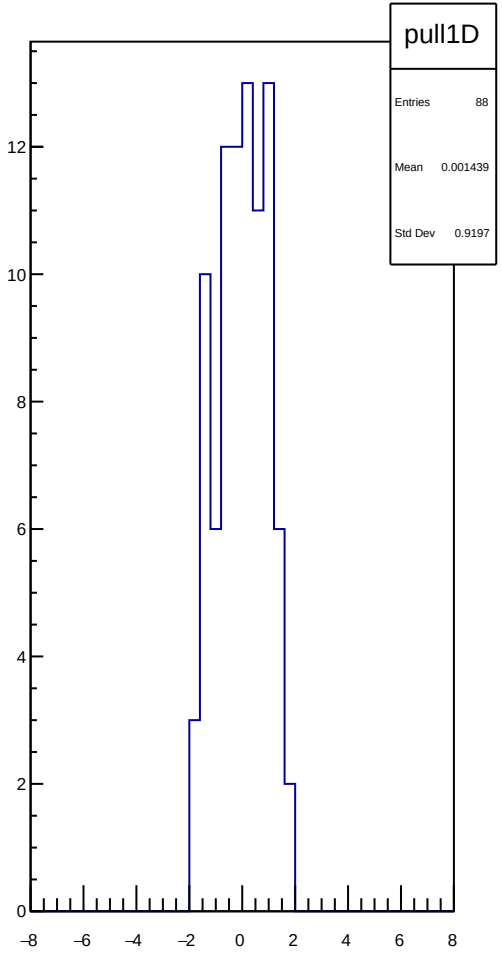

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.112e+05 / 87
p0 0.003855 ± 3.067e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

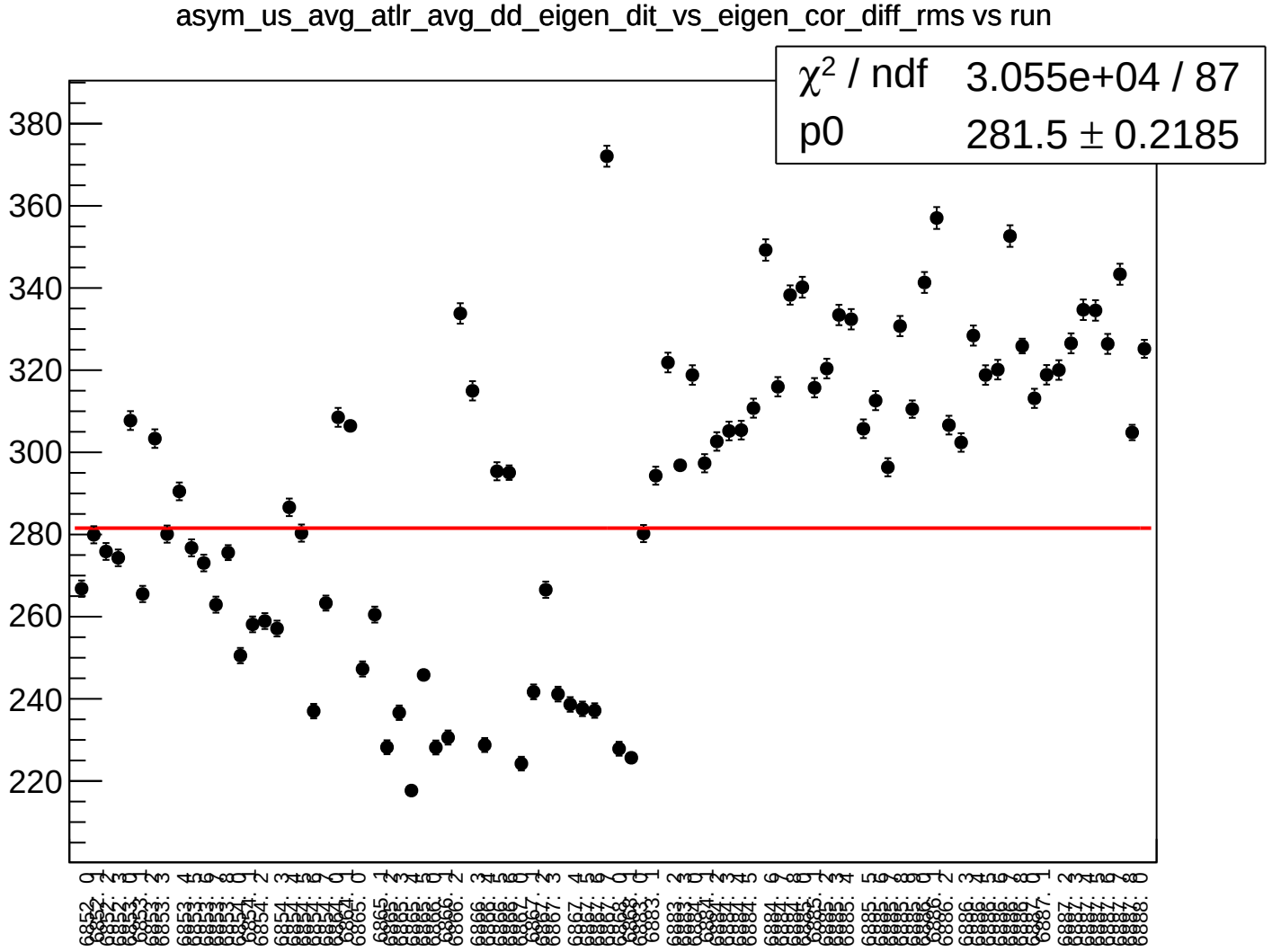

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.43 / 87
p0 0.1958 ± 0.309
pull
Entries 88
Mean 260.4
Std Dev 102.2

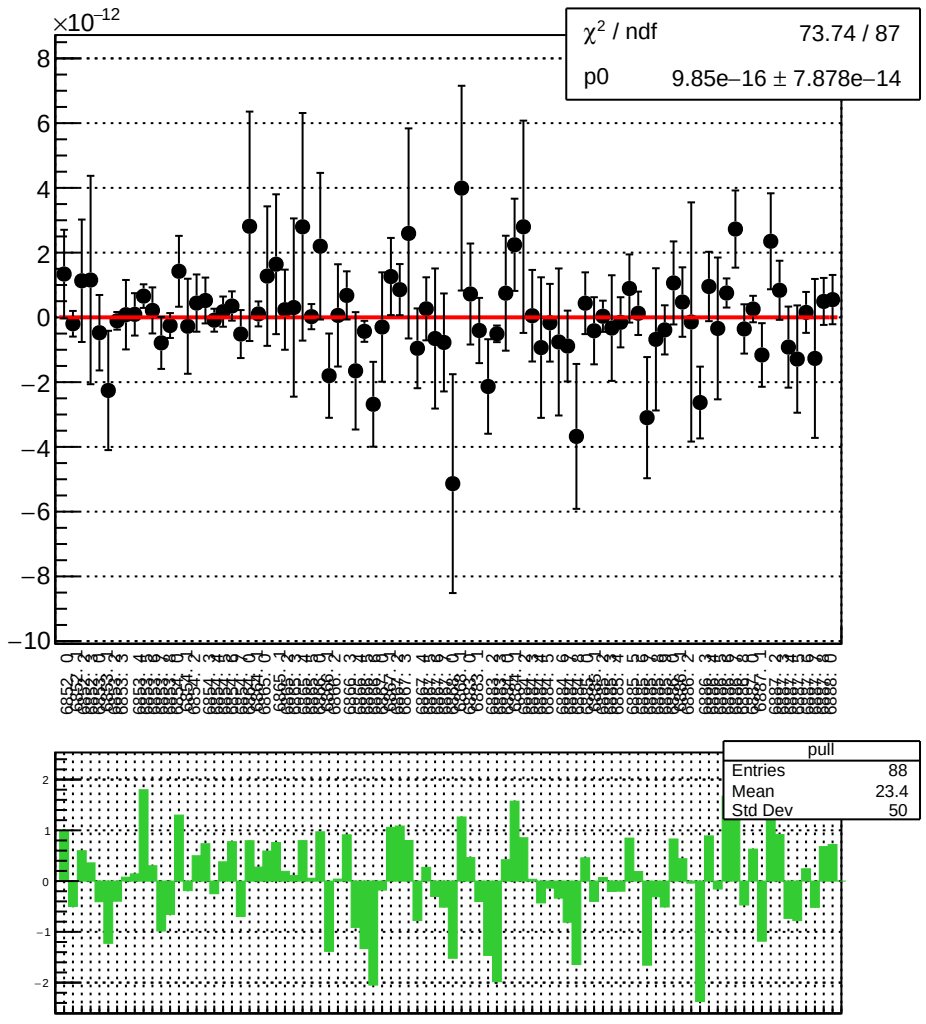

pull1D
Entries 88
Mean 0.001439
Std Dev 0.9197

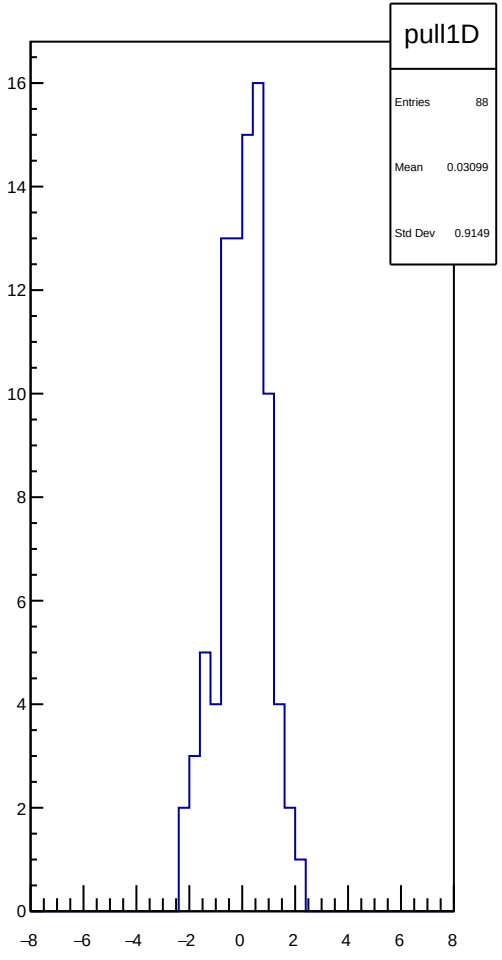

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.055e+04 / 87
p0 281.5 ± 0.2185
380
360
340
320
300
280
260
240
220

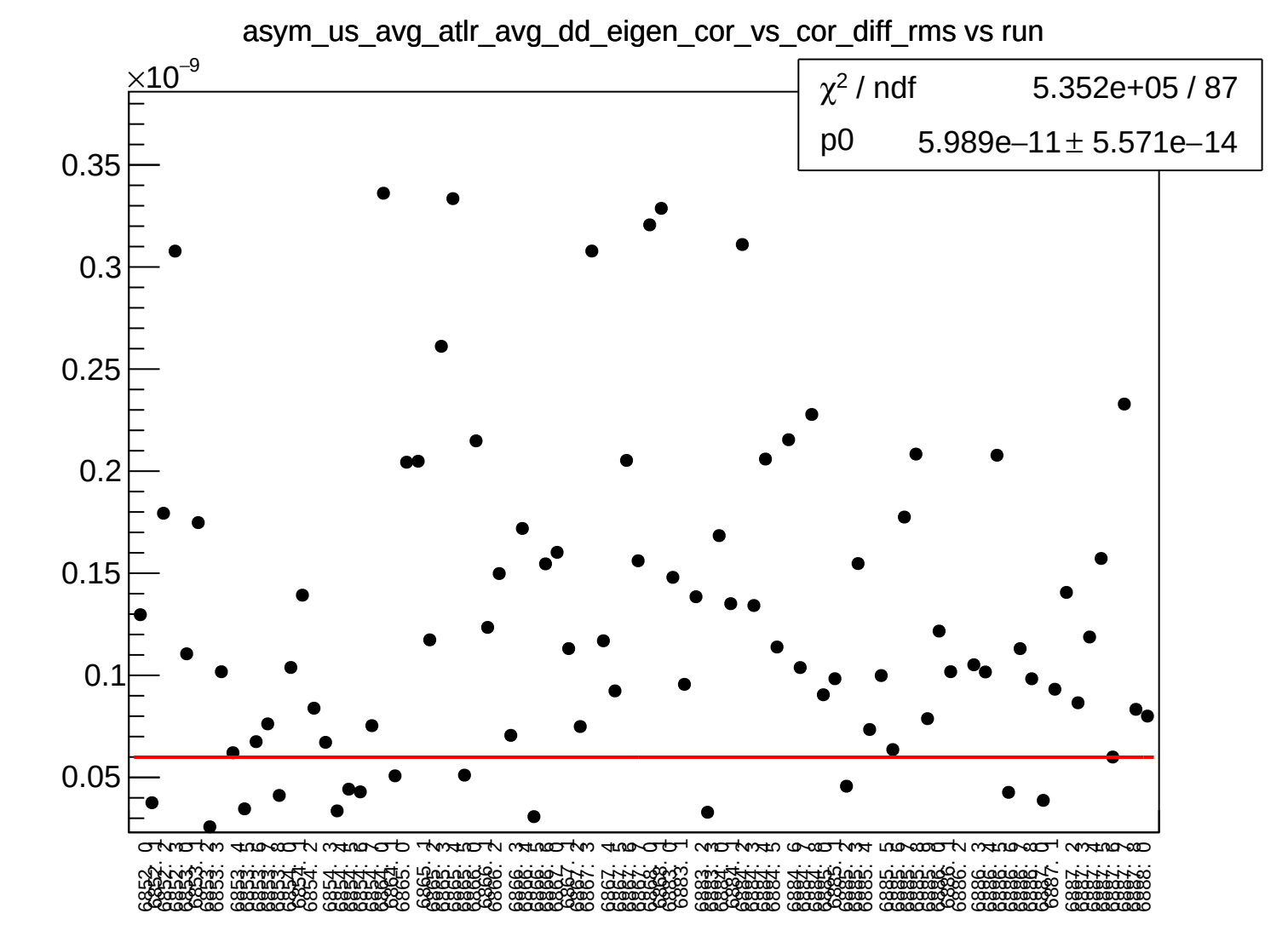

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.43 / 87
p0 0.1958 ± 0.309
pull
Entries 88
Mean 260.4
Std Dev 102.2

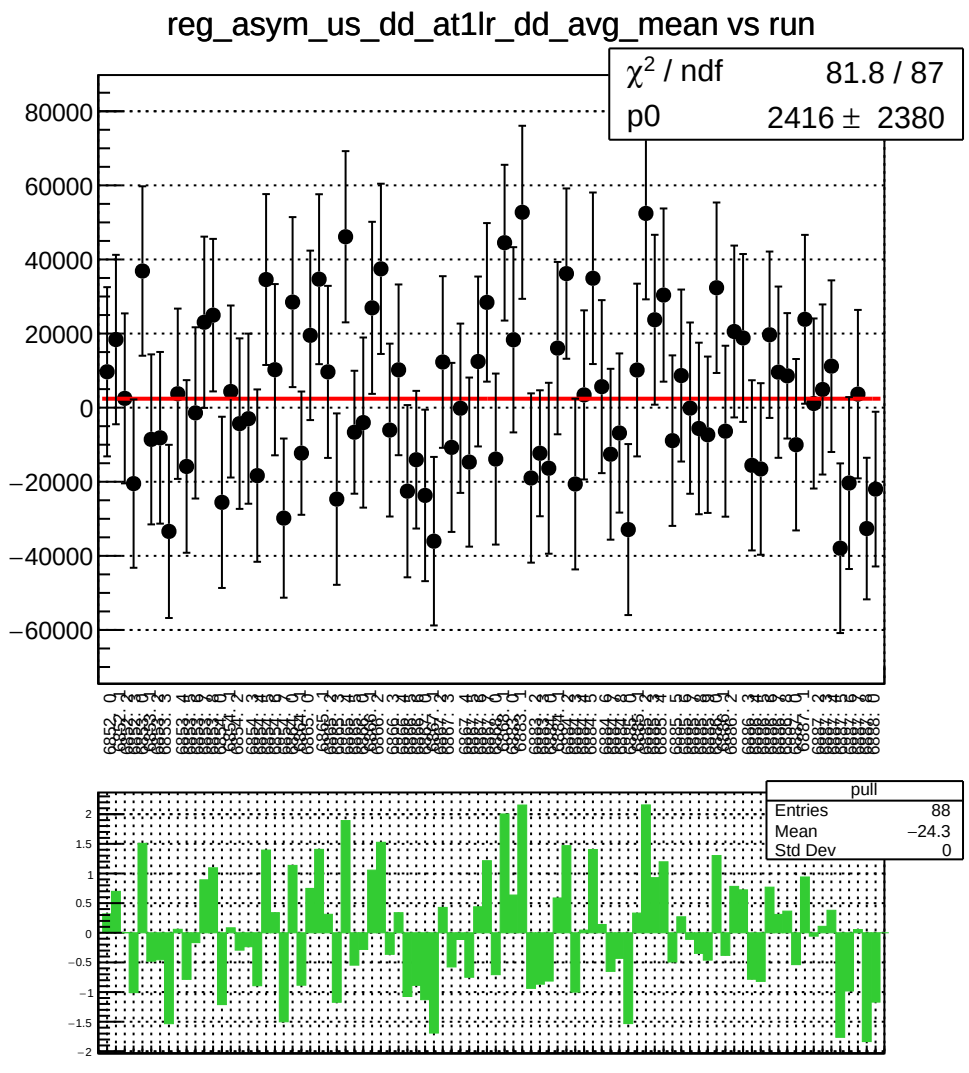

pull1D
Entries 88
Mean 0.001439
Std Dev 0.9197

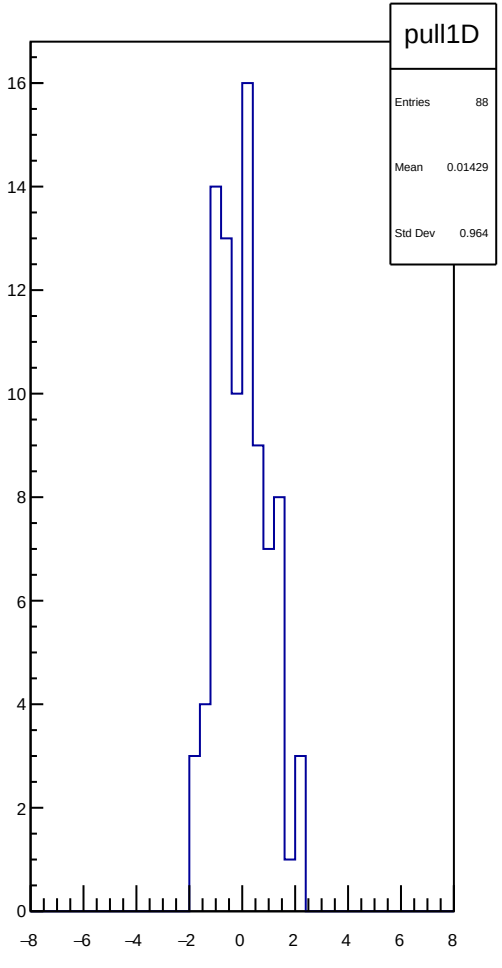

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.055e+04 / 87
p0 281.5 ± 0.2185
380
360
340
320
300
280
260
240
220

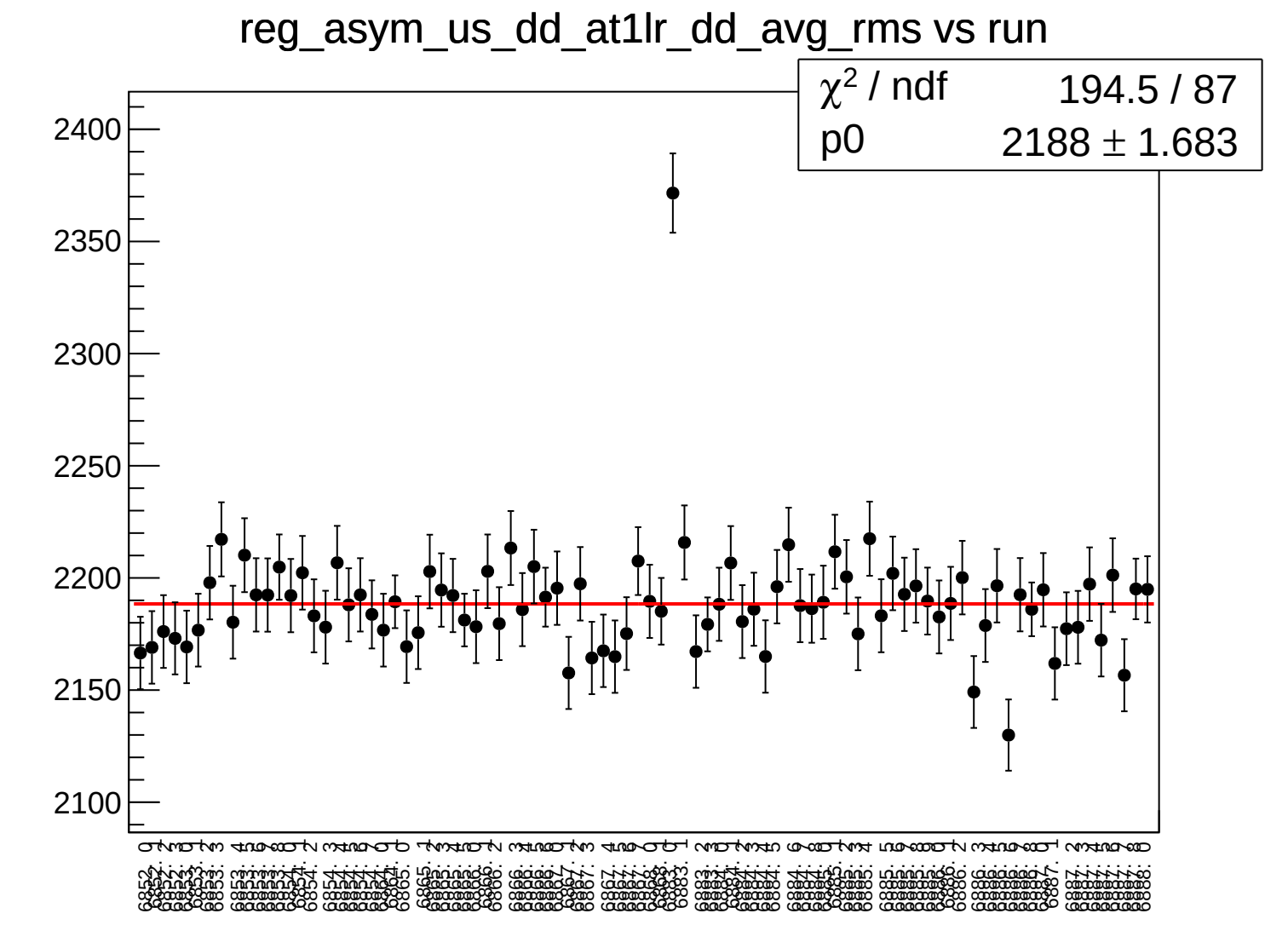

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.74 / 87
p0 9.85e−16 ± 7.878e−14
pull
Entries 88
Mean 23.4
Std Dev 50

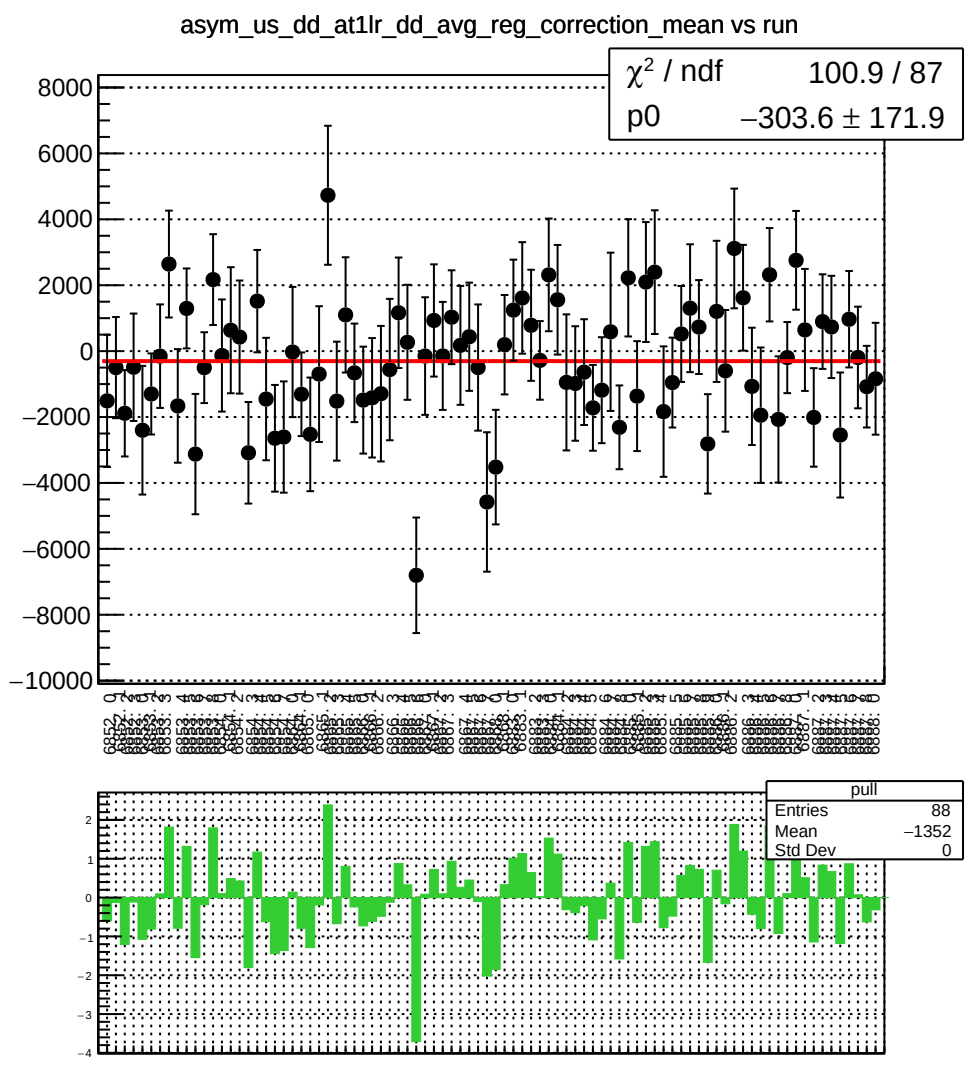

pull1D
Entries 88
Mean 0.03099
Std Dev 0.9149

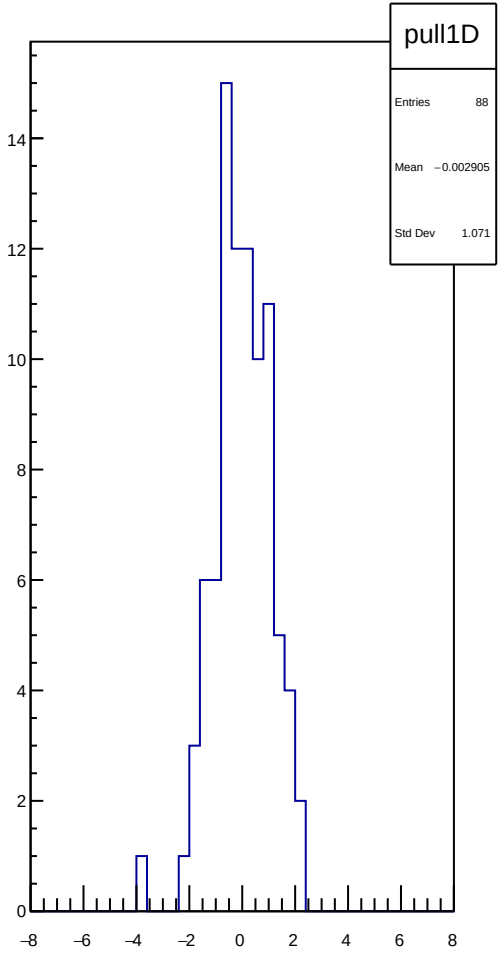

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.352e+05 / 87
p0 5.989e−11 ± 5.571e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

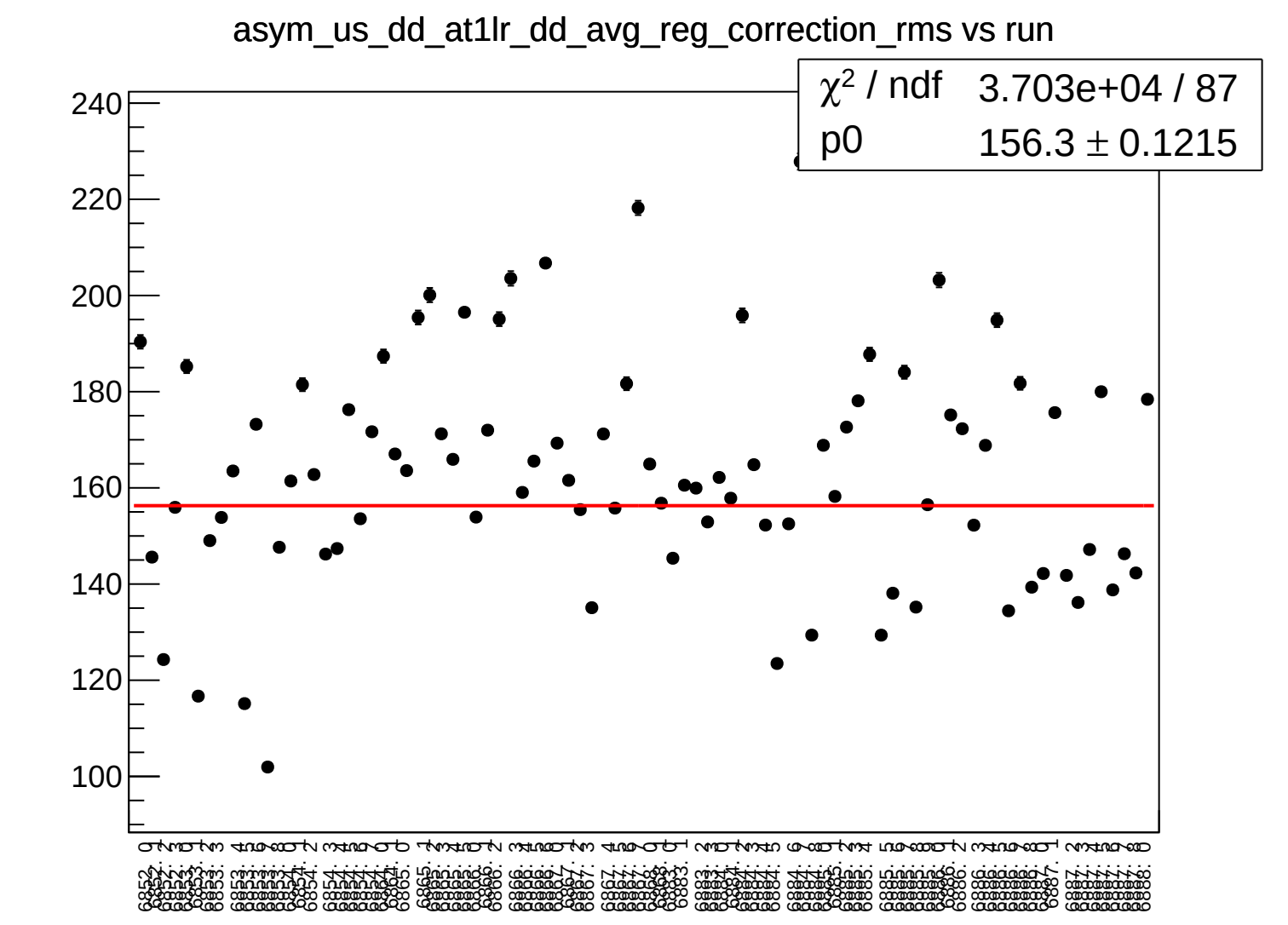

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 81.8 / 87
p0 2416 ± 2380
pull
Entries 88
Mean −24.3
Std Dev 0

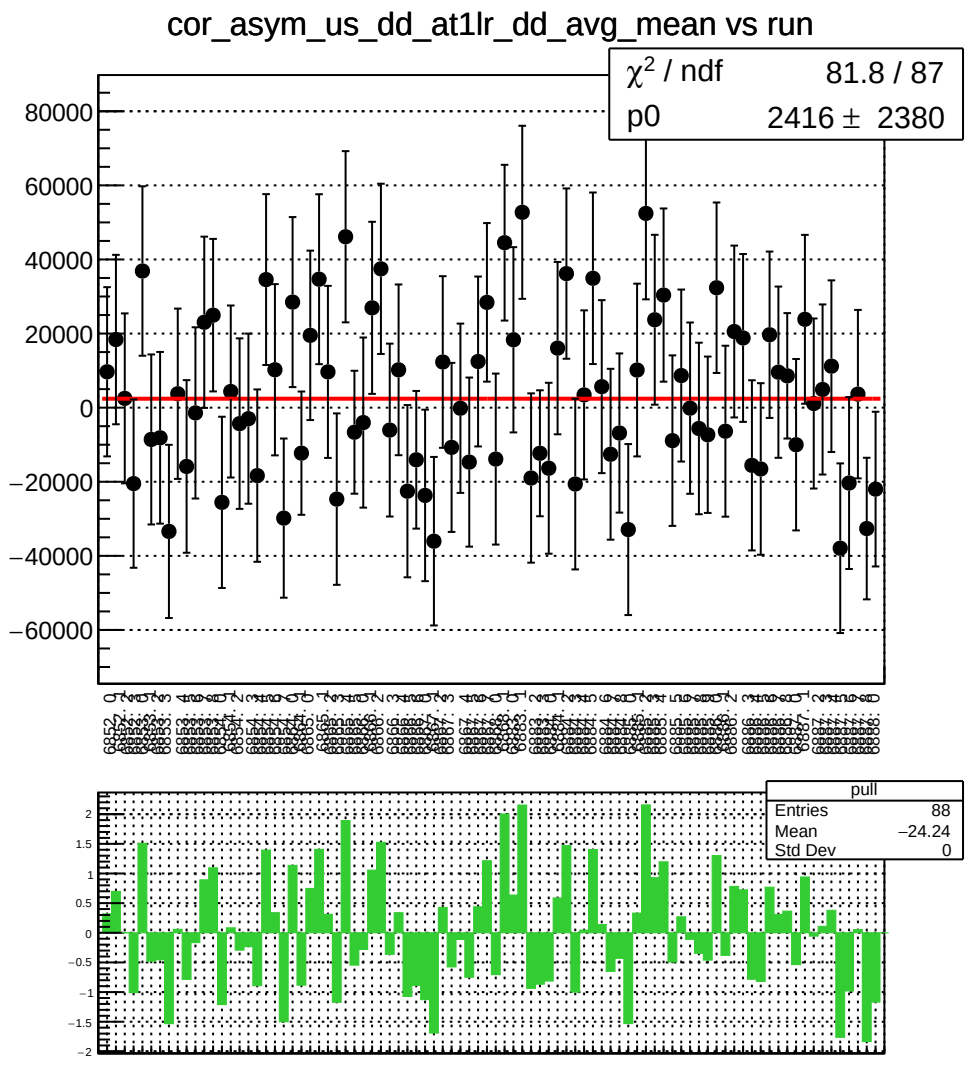

pull1D
Entries 88
Mean 0.01429
Std Dev 0.964

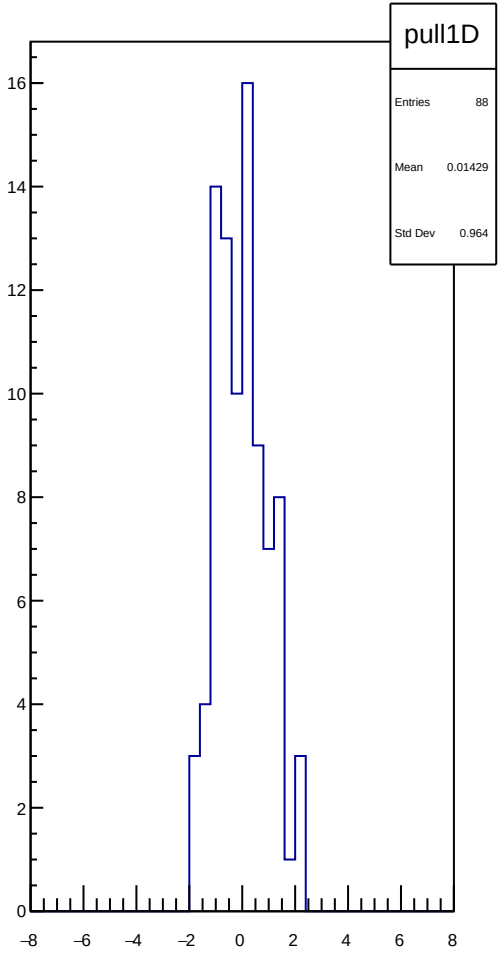

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 194.5 / 87
p0 2188 ± 1.683
2400
2350
2300
2250
2200
2150
2100

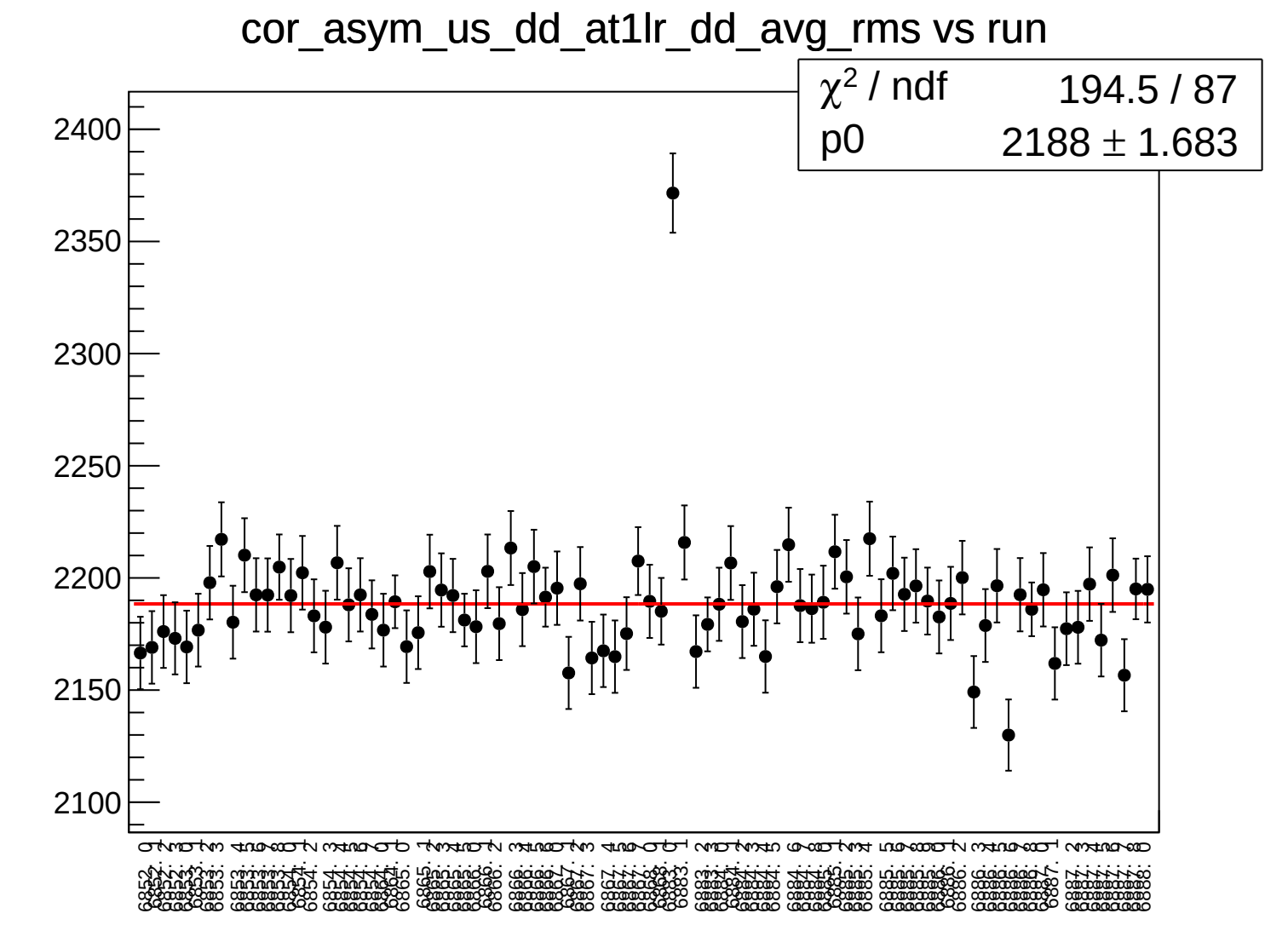

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 100.9 / 87
p0 −303.6 ± 171.9
pull
Entries 88
Mean −1352
Std Dev 0

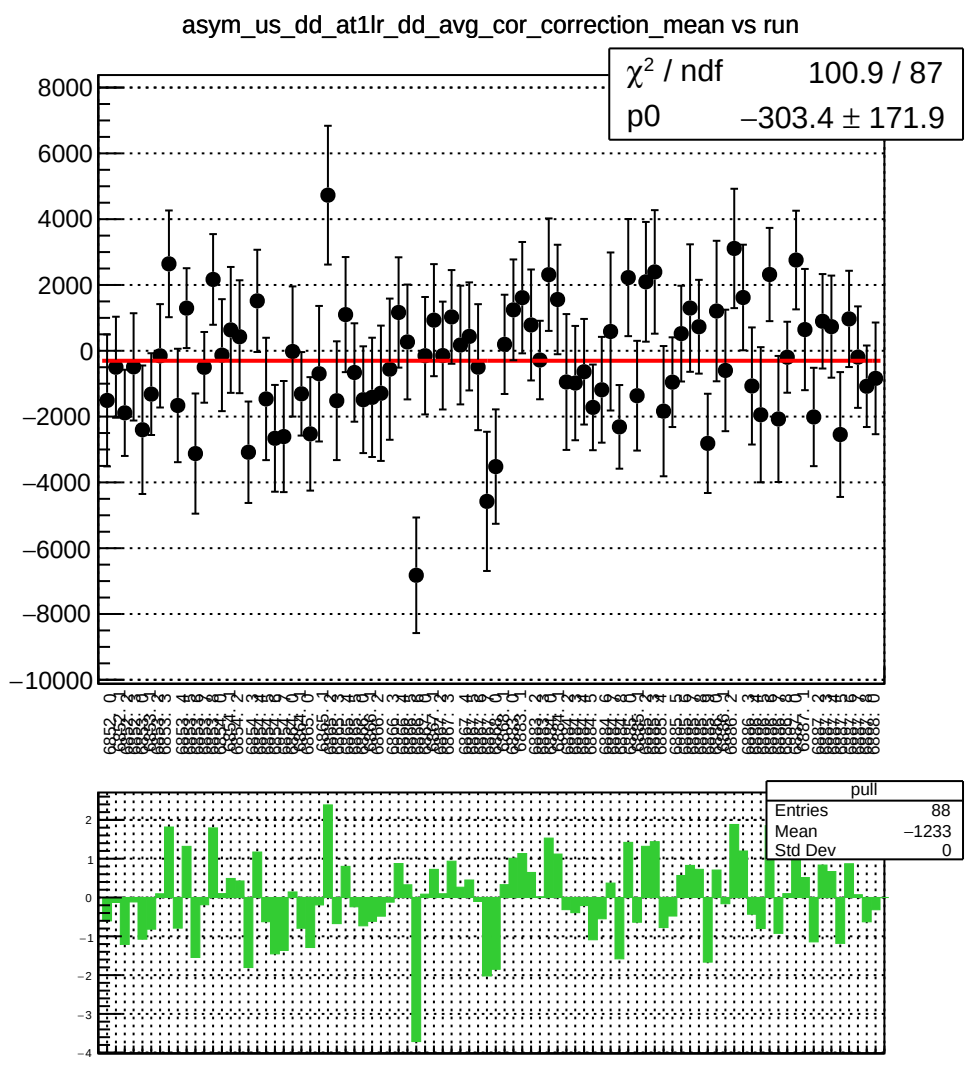

pull1D
Entries 88
Mean −0.002905
Std Dev 1.071

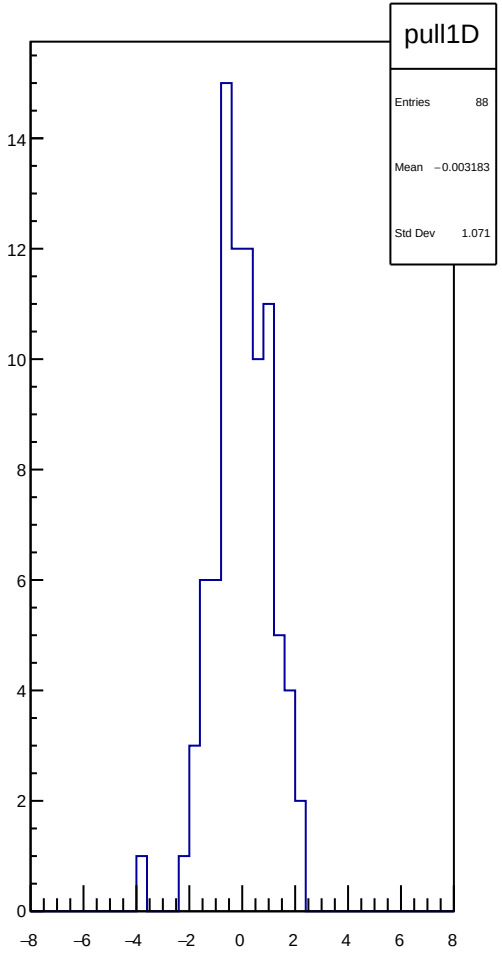

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3.703e+04 / 87
p0 156.3 ± 0.1215
240
220
200
180
160
140
120
100

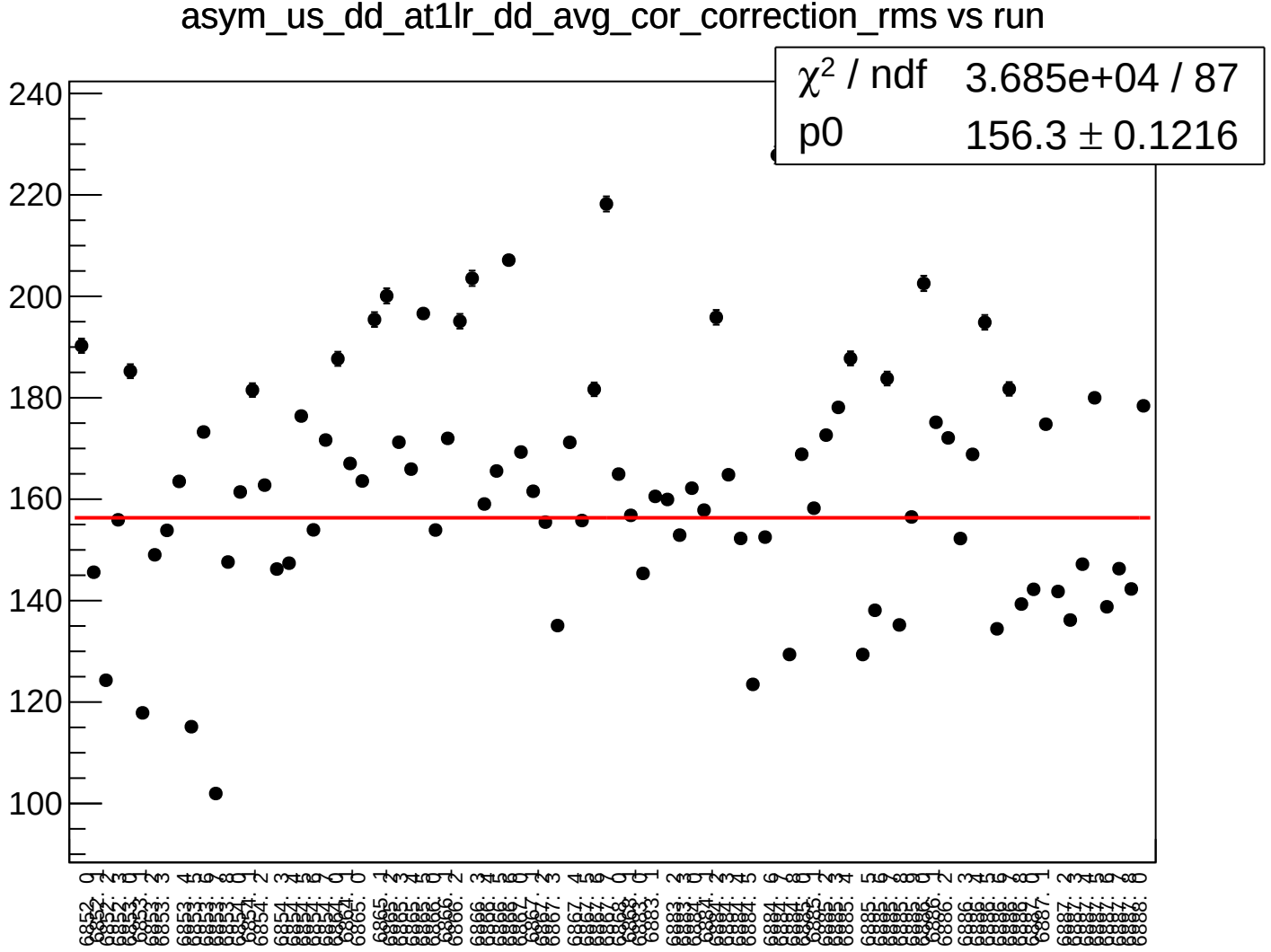

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 81.8 / 87
p0 2416 ± 2380
pull
Entries 88
Mean −24.24
Std Dev 0

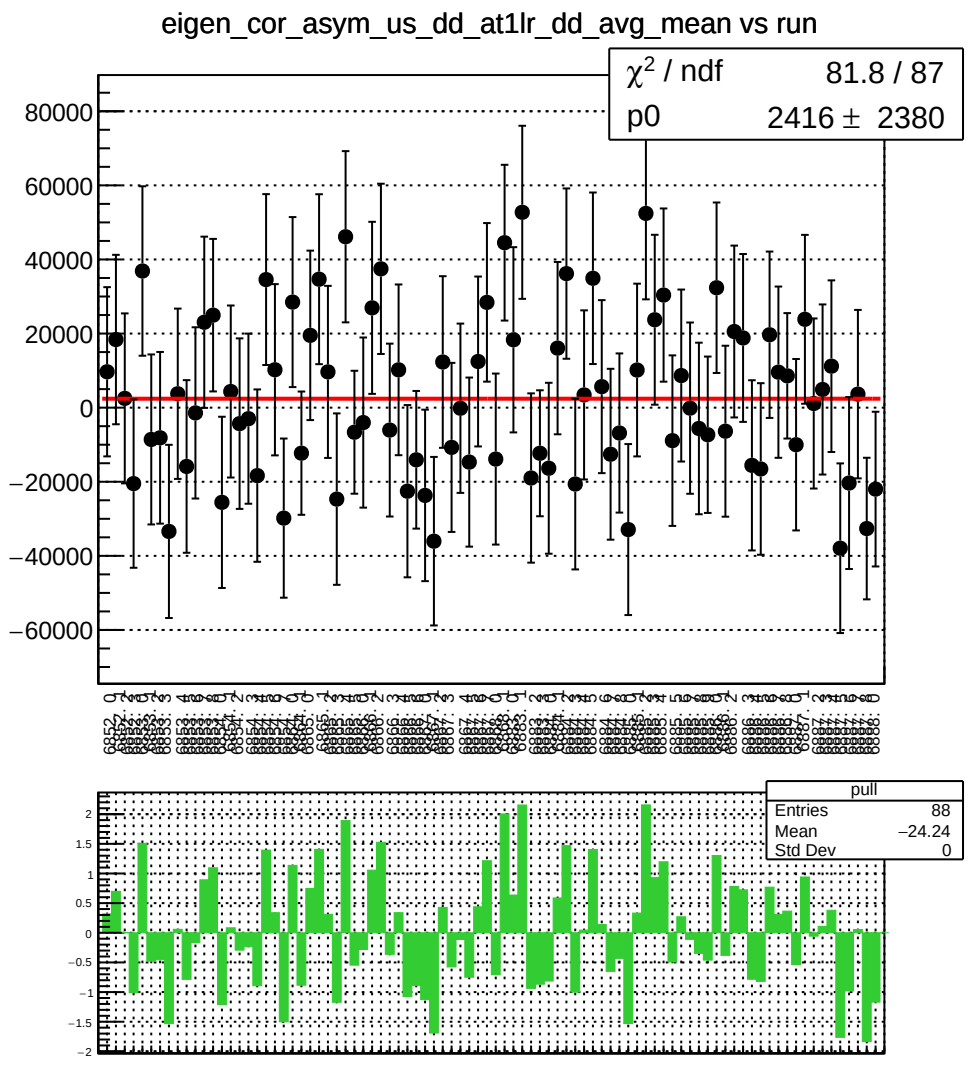

pull1D
Entries 88
Mean 0.01429
Std Dev 0.964

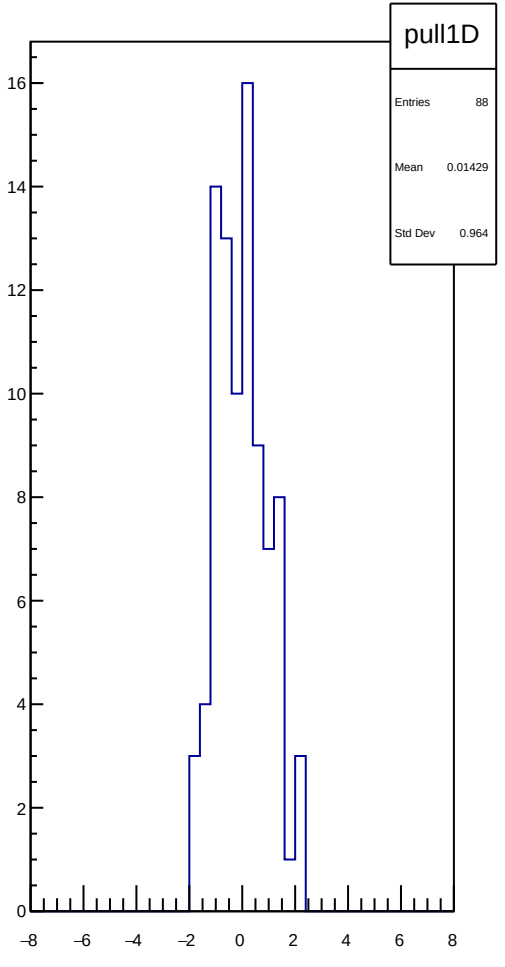

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 194.5 / 87
p0 2188 ± 1.683
2400
2350
2300
2250
2200
2150
2100

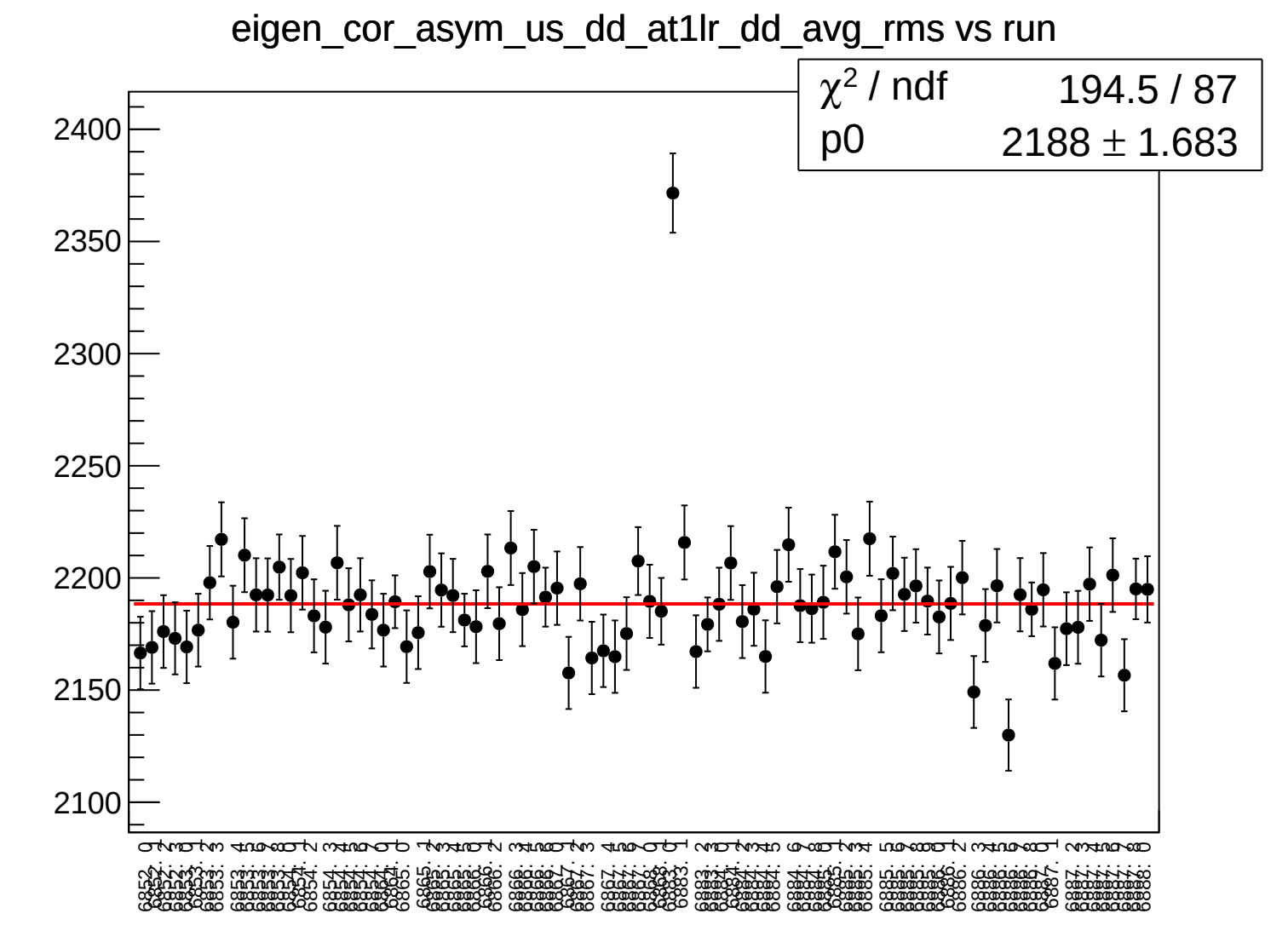

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 100.9 / 87
p0 −303.4 ± 171.9
pull
Entries 88
Mean −1233
Std Dev 0

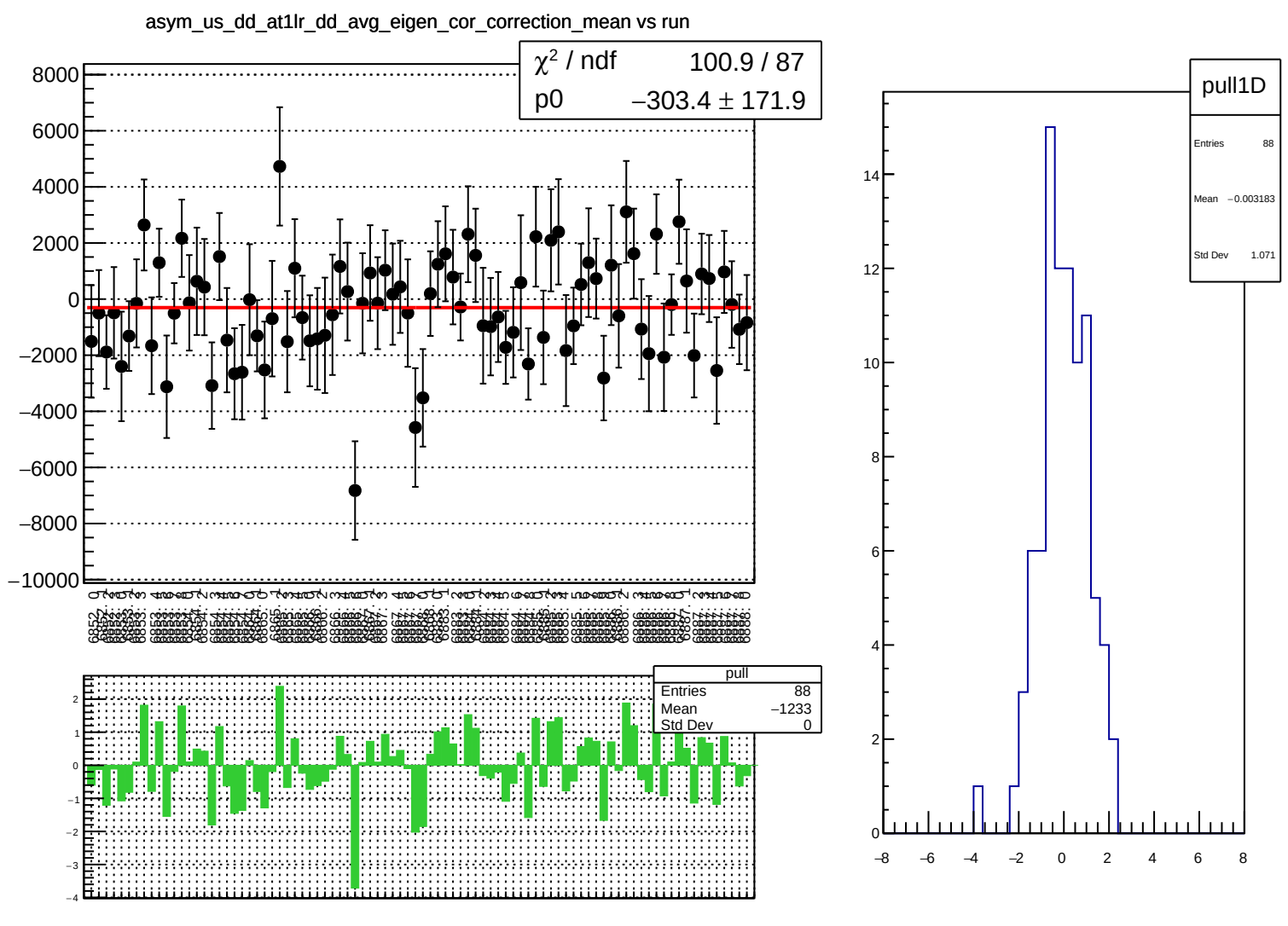

pull1D
Entries 88
Mean −0.003183
Std Dev 1.071

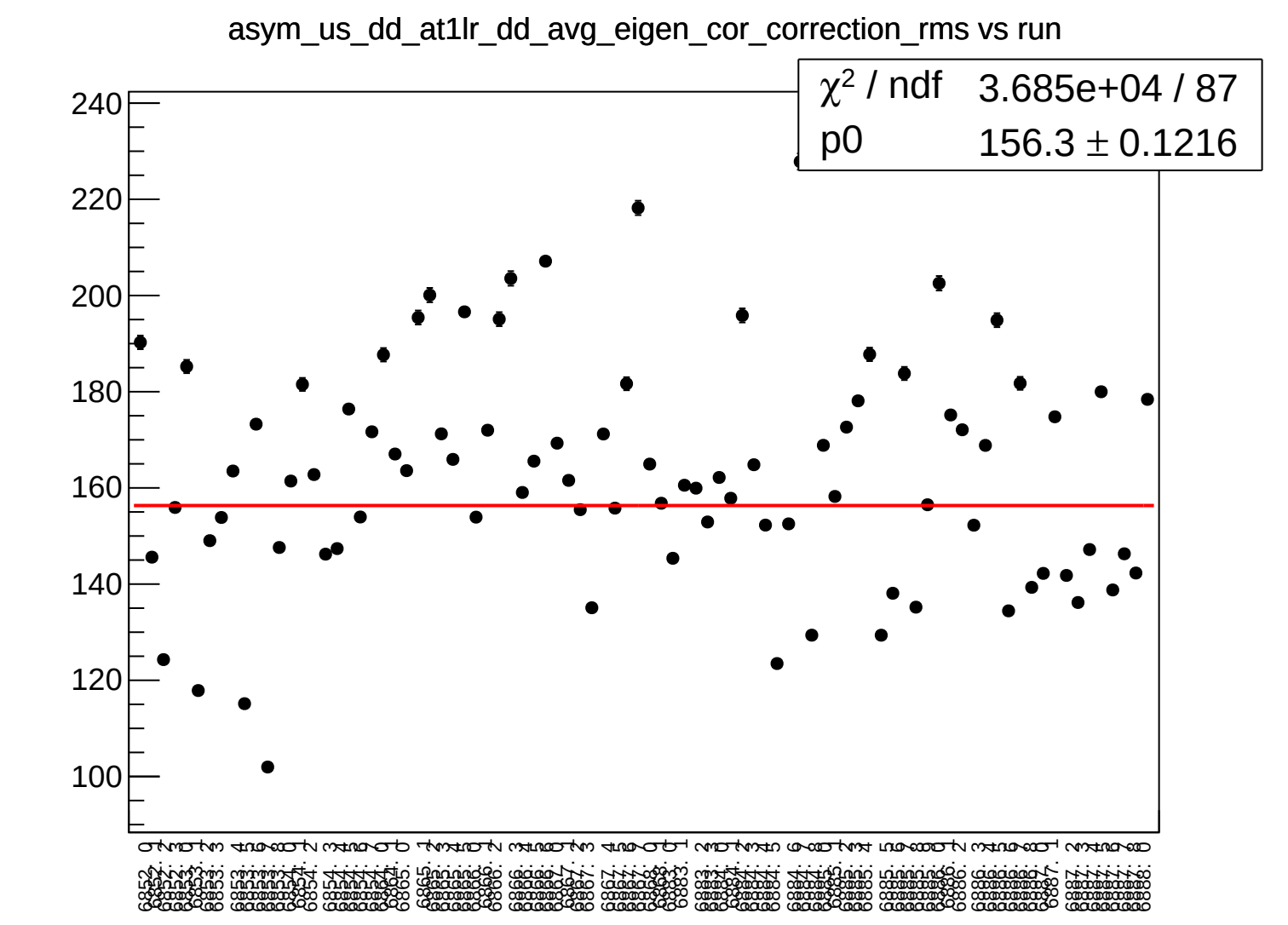

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 3.685e+04 / 87
p0 156.3 ± 0.1216
240
220
200
180
160
140
120
100

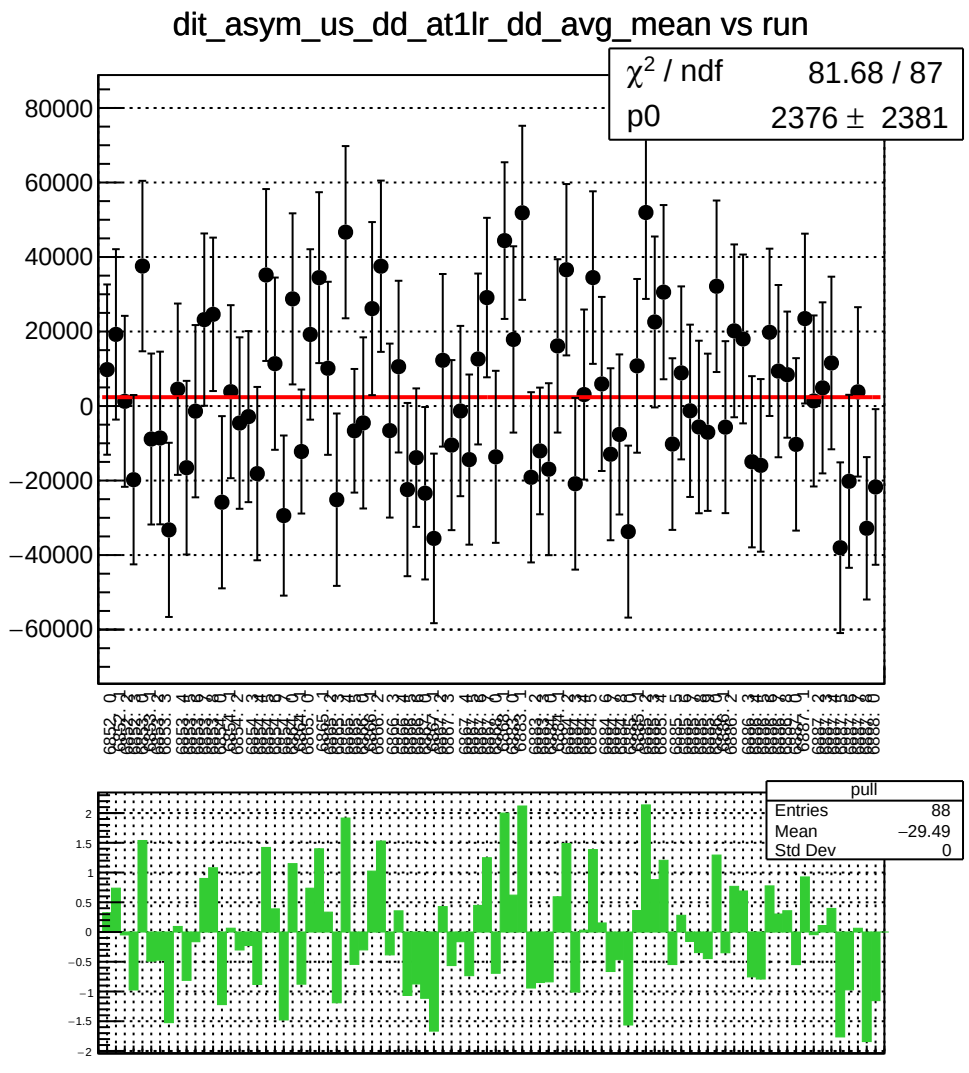

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 81.8 / 87
p0 2416 ± 2380
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −24.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

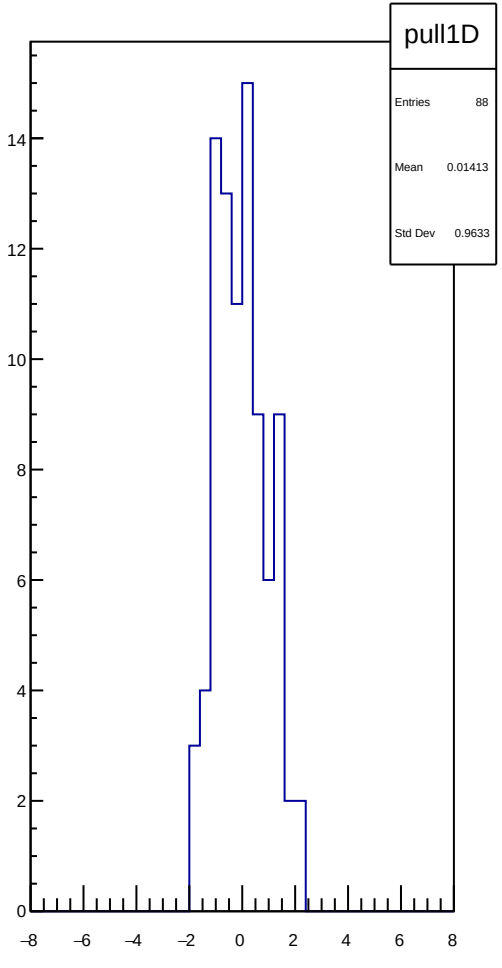

pull1D
Entries 88
Mean 0.01429
Std Dev 0.964
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

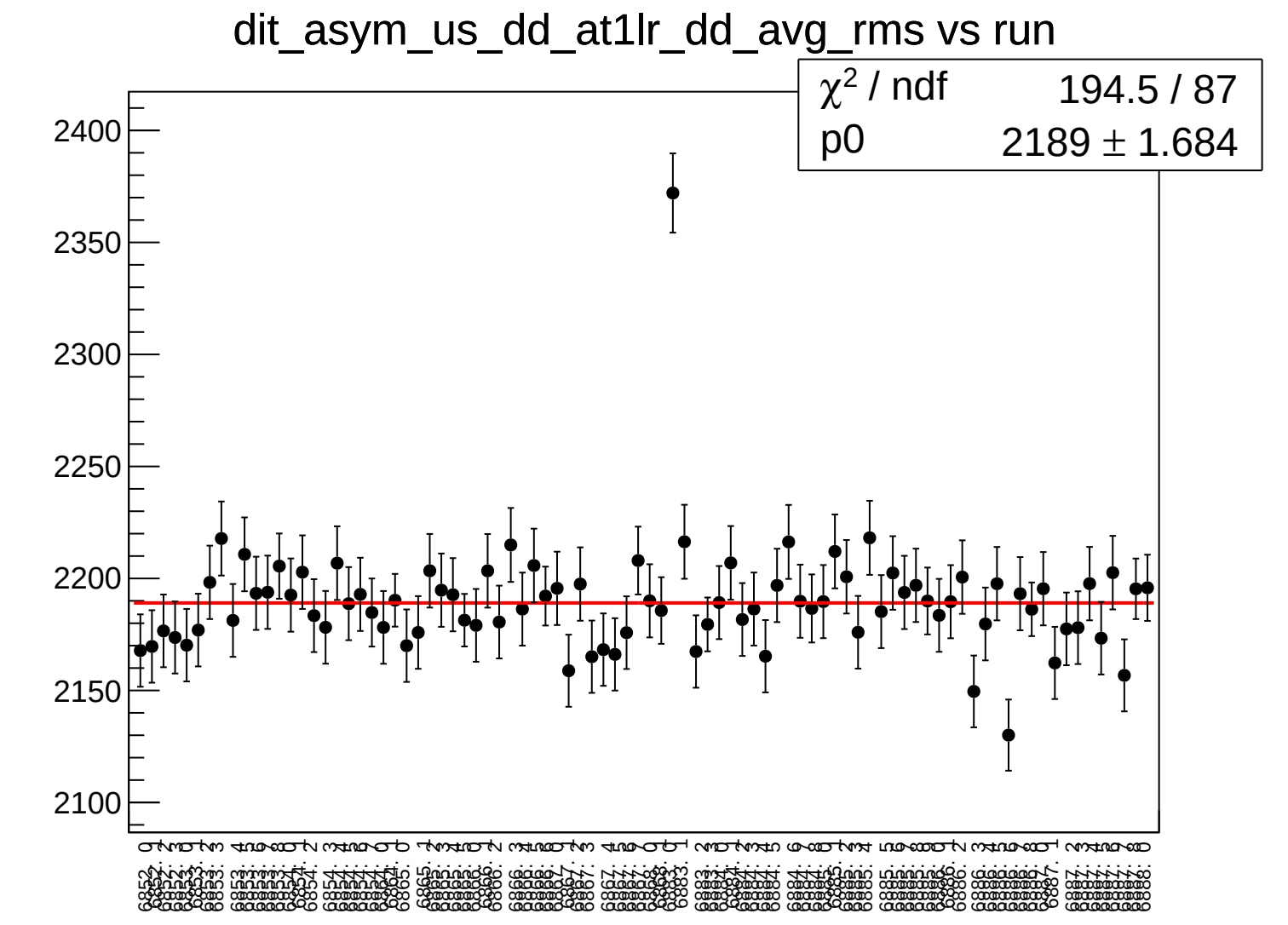

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 194.5 / 87
p0 2188 ± 1.683
2400
2350
2300
2250
2200
2150
2100

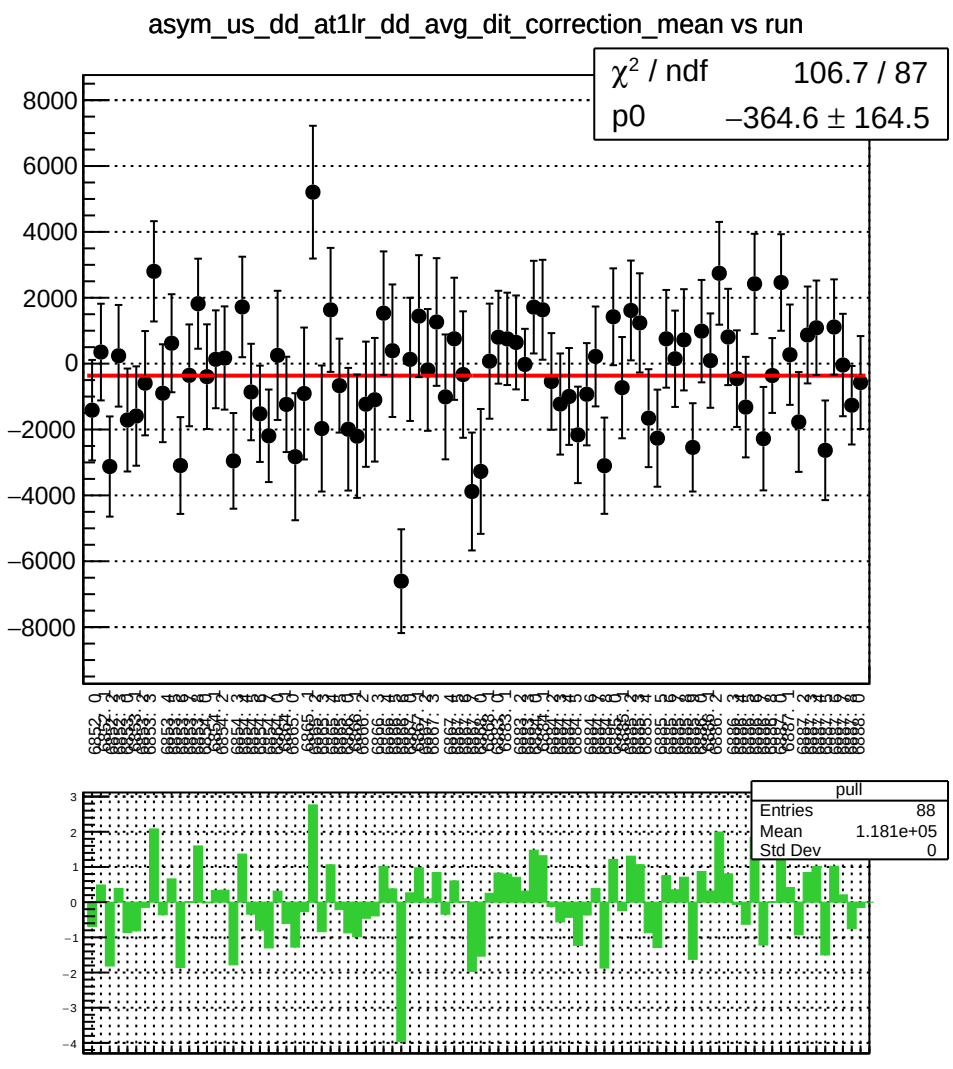

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 100.9 / 87
p0 −303.4 ± 171.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 88
Mean −1233
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean −0.003183
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

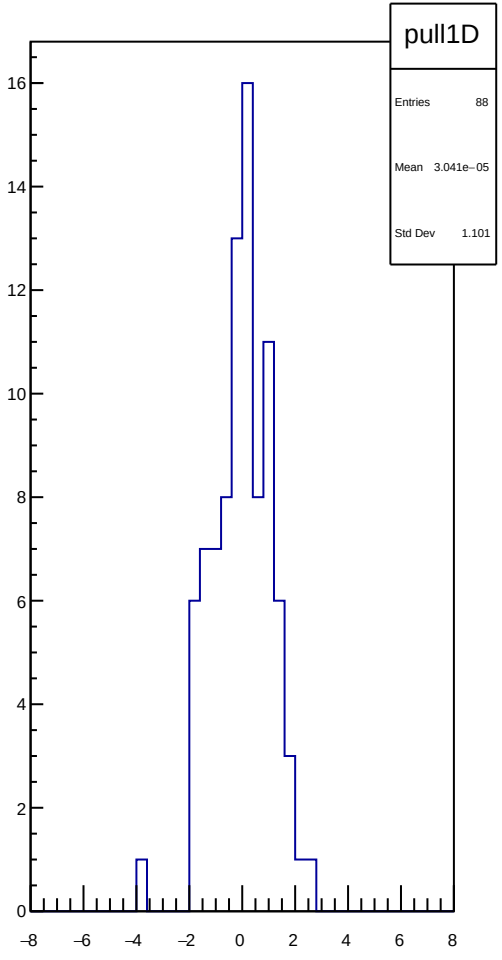

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.685e+04 / 87
p0 156.3 ± 0.1216
240
220
200
180
160
140
120
100

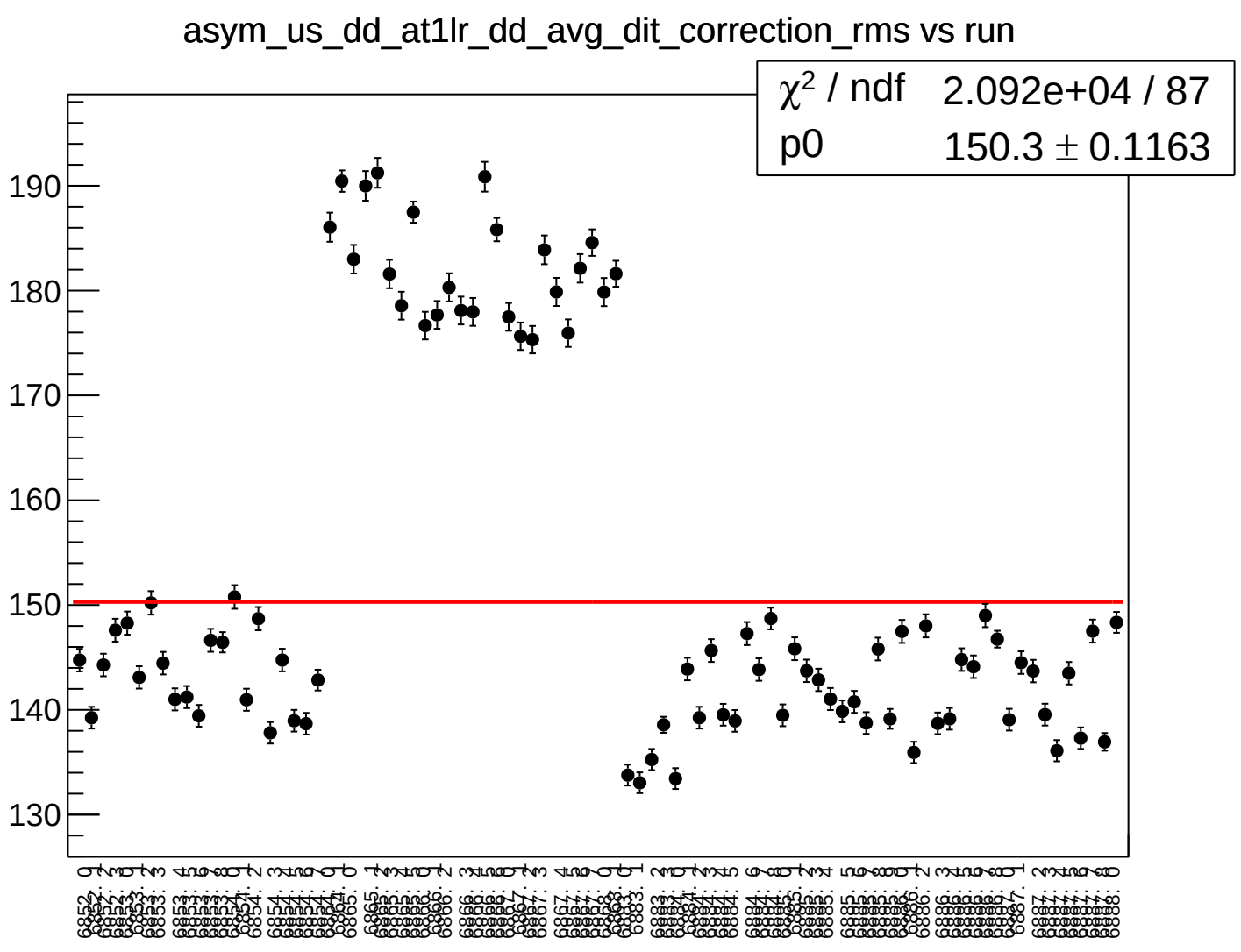

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 81.68 / 87
p0 2376 ± 2381
pull
Entries 88
Mean −29.49
Std Dev 0

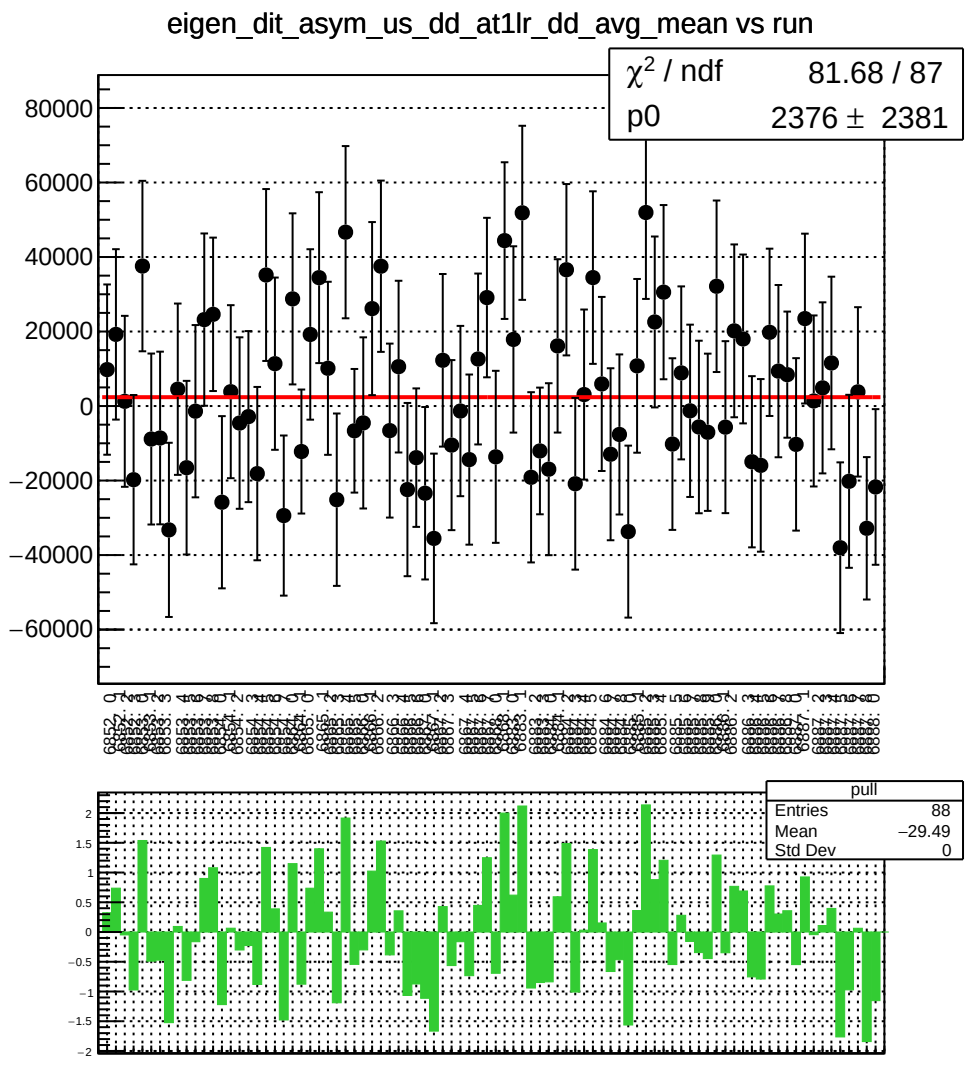

pull1D
Entries 88
Mean 0.01413
Std Dev 0.9633

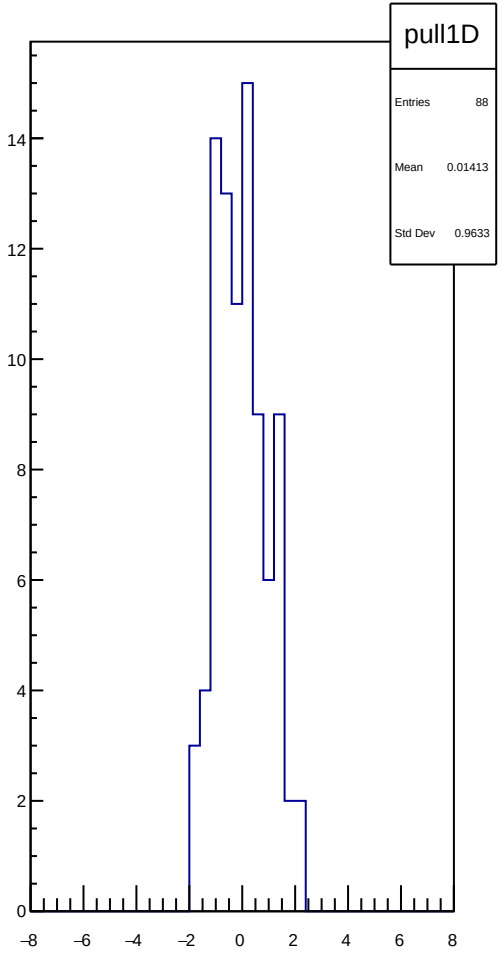

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 194.5 / 87
p0 2189 ± 1.684
2400
2350
2300
2250
2200
2150
2100

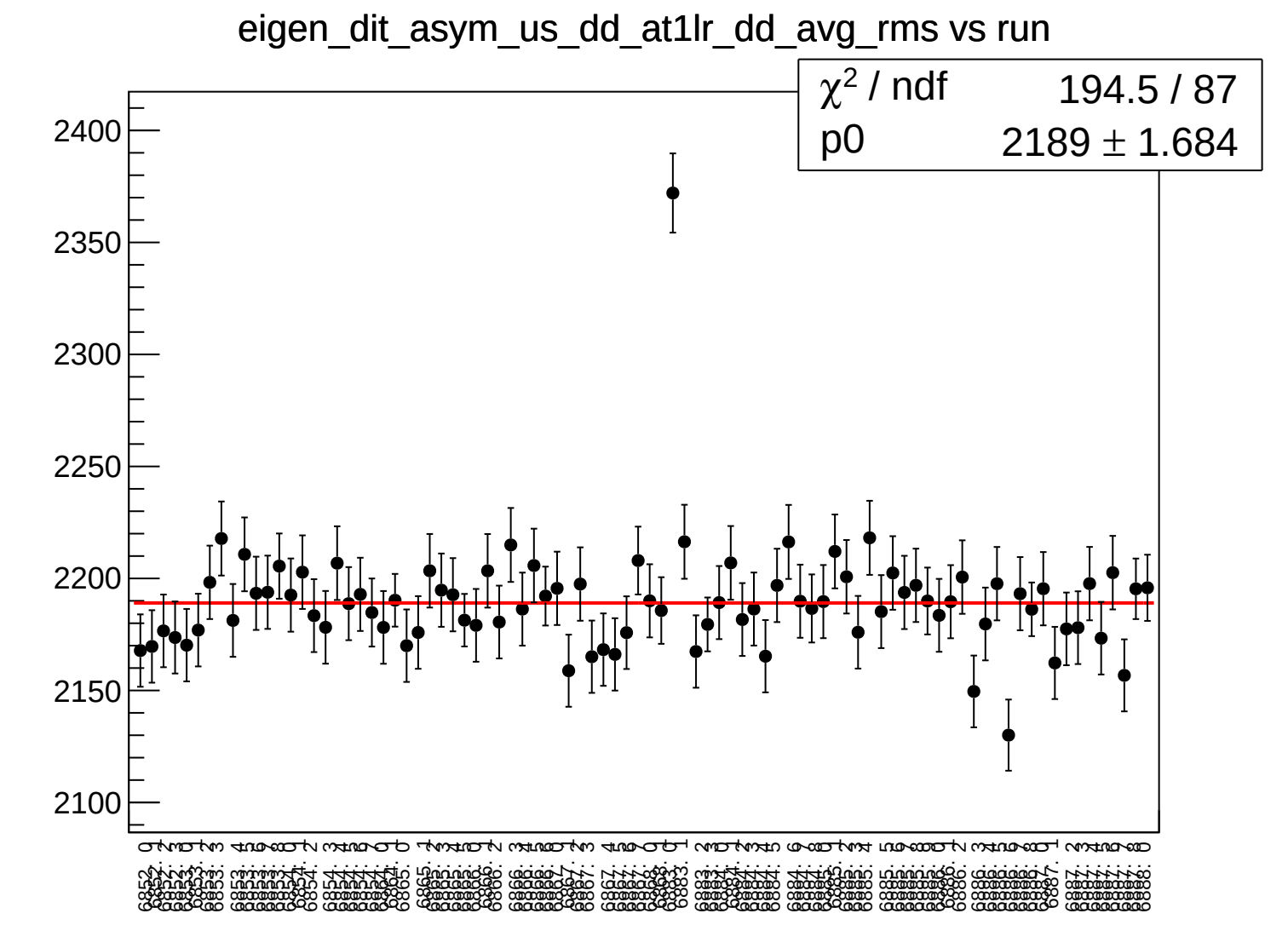

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 106.7 / 87
p0 −364.6 ± 164.5
pull
Entries 88
Mean 1.181e+05
Std Dev 0

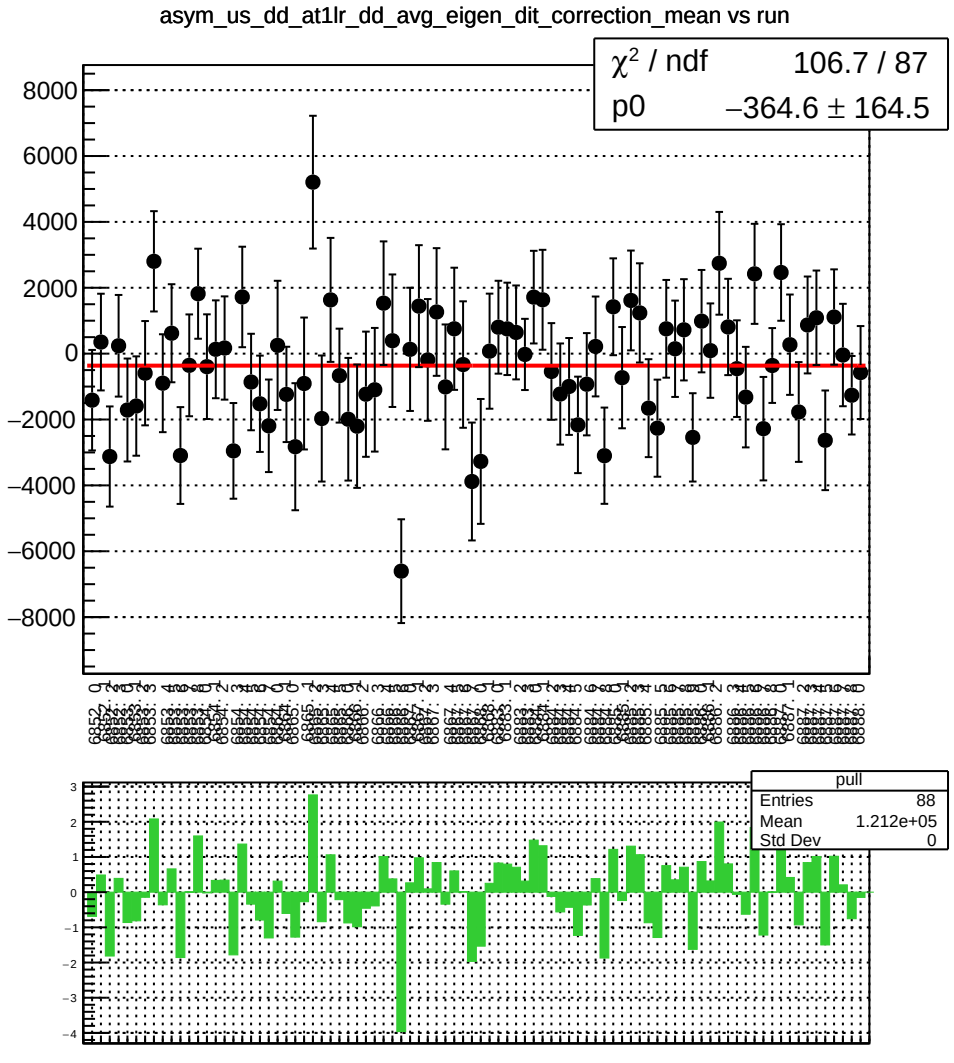

pull1D
Entries 88
Mean 3.041e−05
Std Dev 1.101

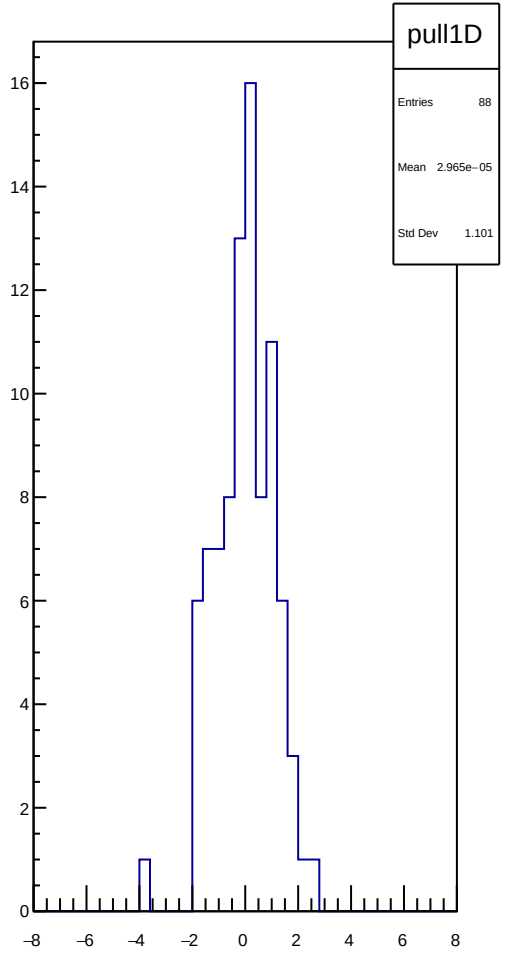

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.092e+04 / 87
p0 150.3 ± 0.1163
190
180
170
160
150
140
130

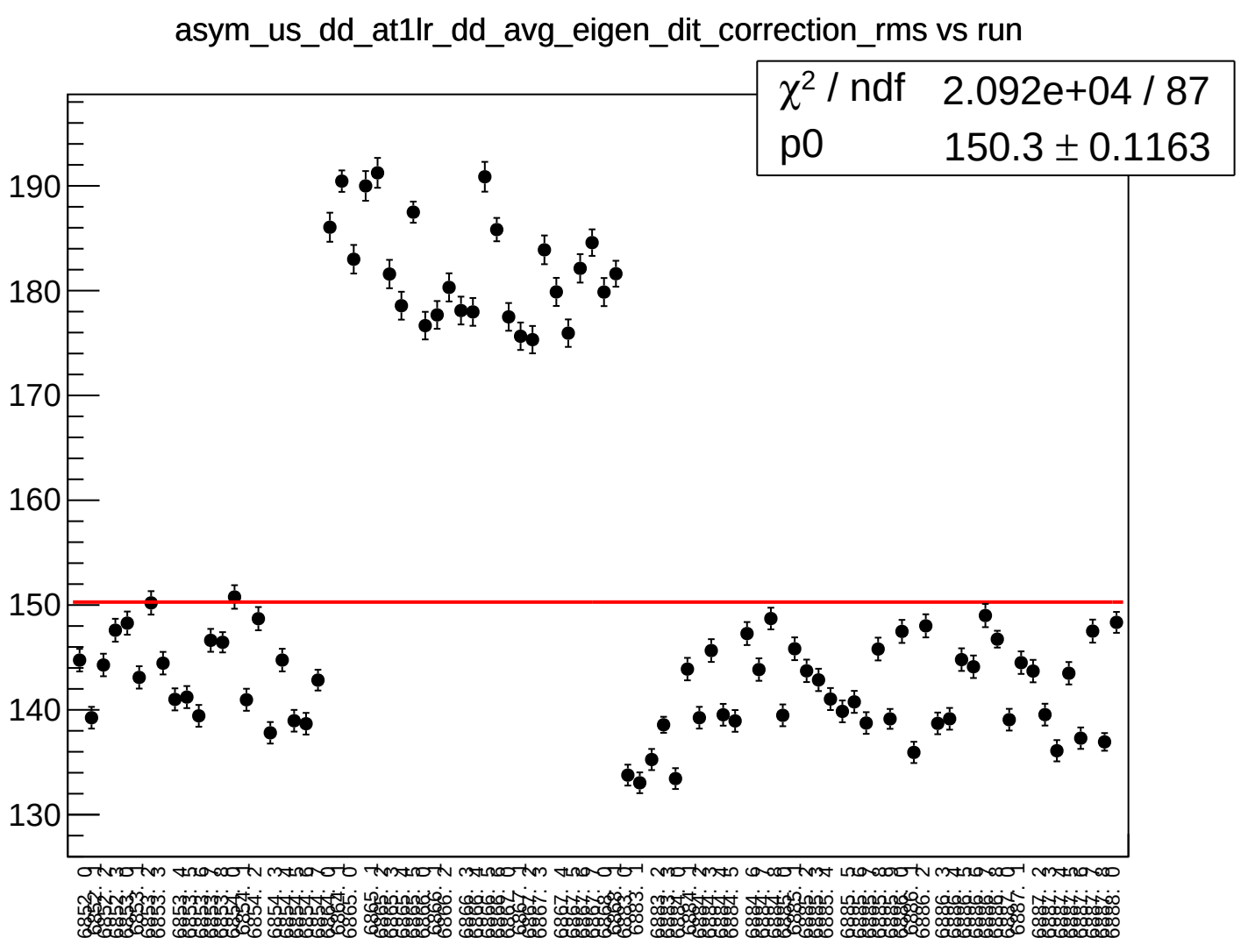

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 81.68 / 87
p0 2376 ± 2381
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −29.49
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

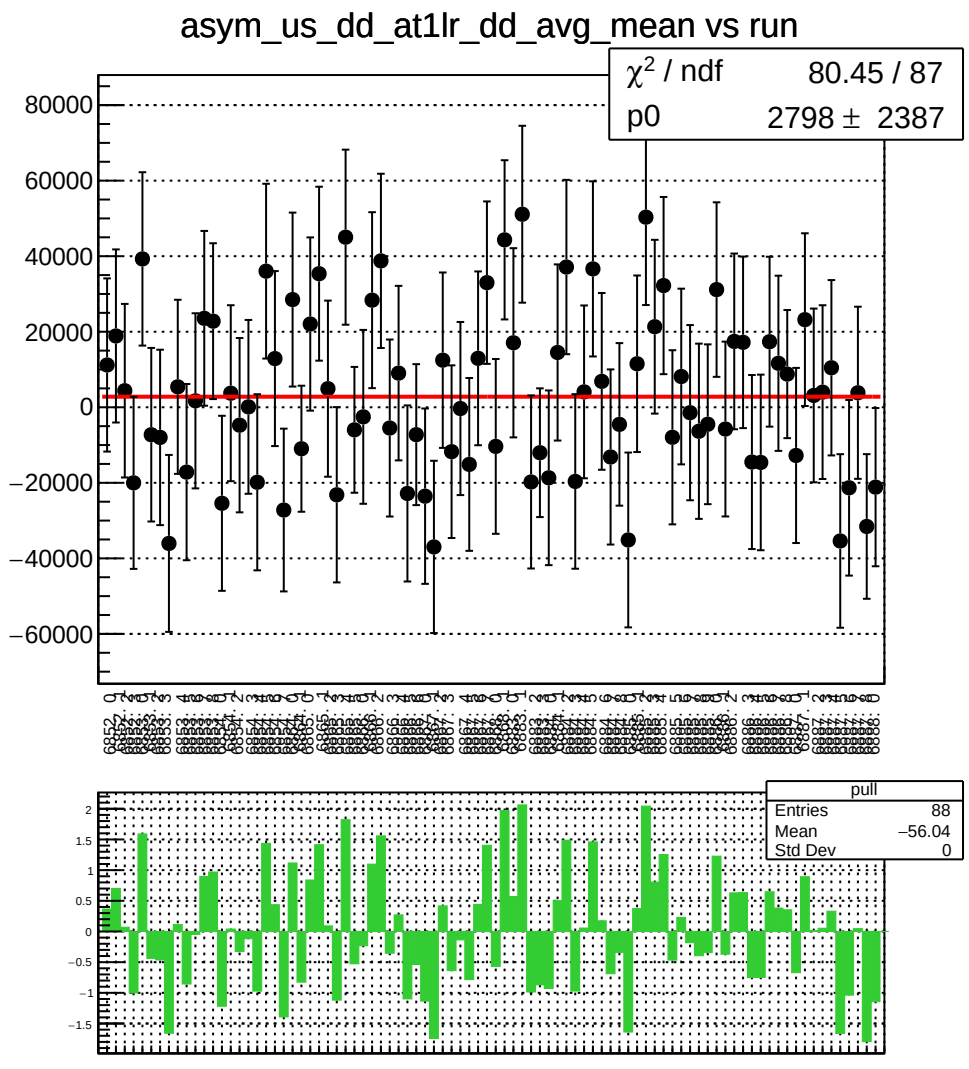

pull1D
Entries 88
Mean 0.01413
Std Dev 0.9633
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

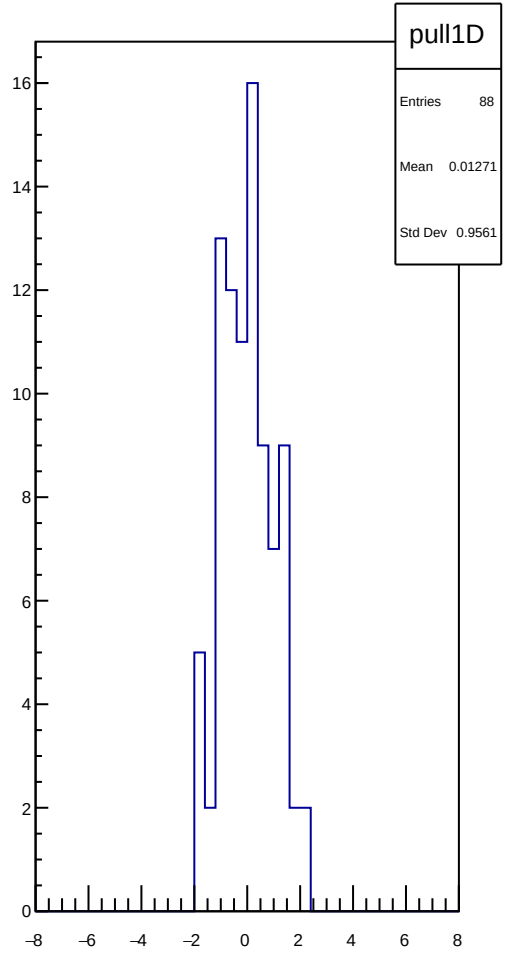

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 194.5 / 87
p0 2189 ± 1.684
2400
2350
2300
2250
2200
2150
2100

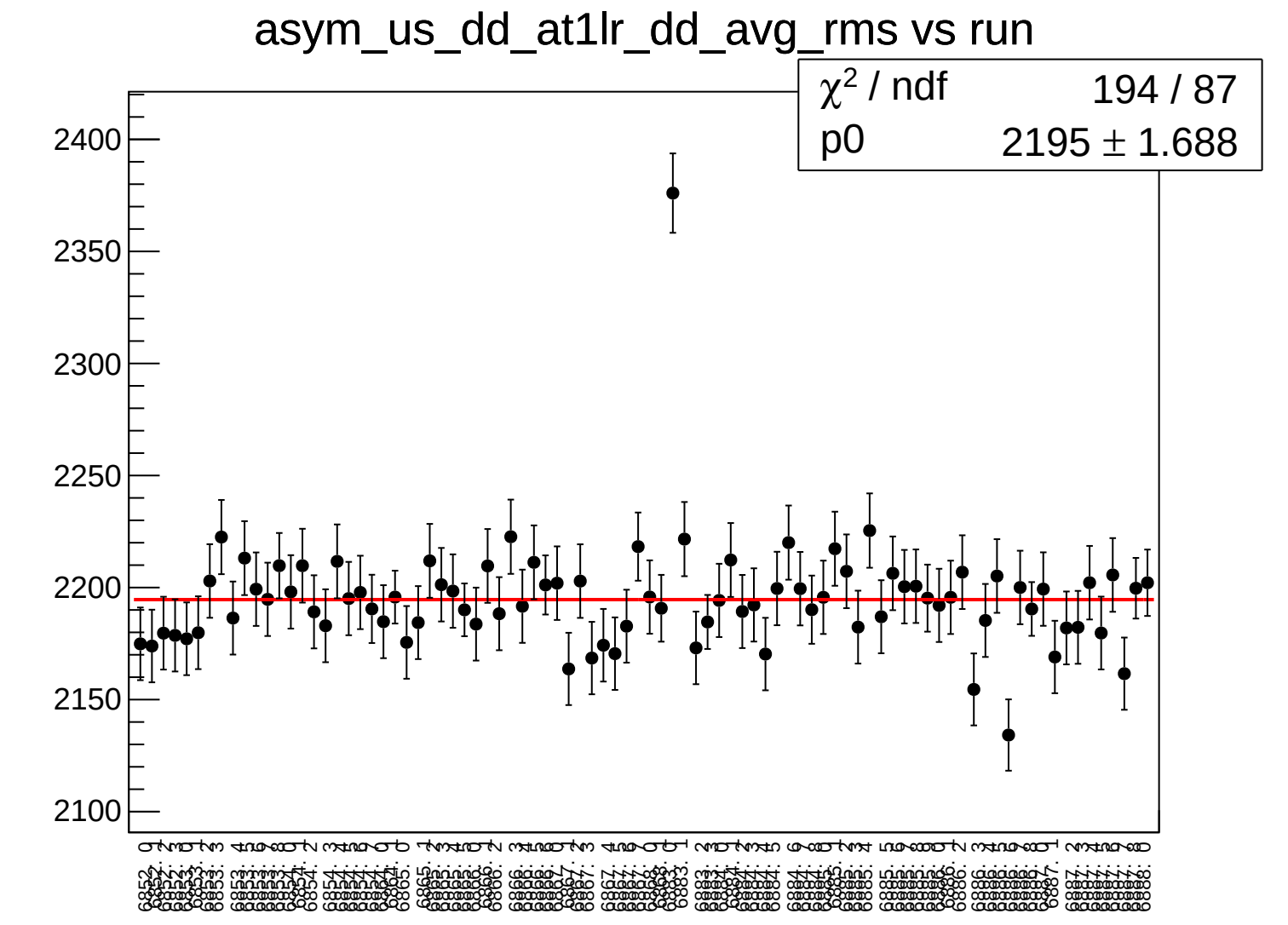

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 106.7 / 87
p0 −364.6 ± 164.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean 1.212e+05
Std Dev 0
3
2
1
0
−1
−2
−3
−4

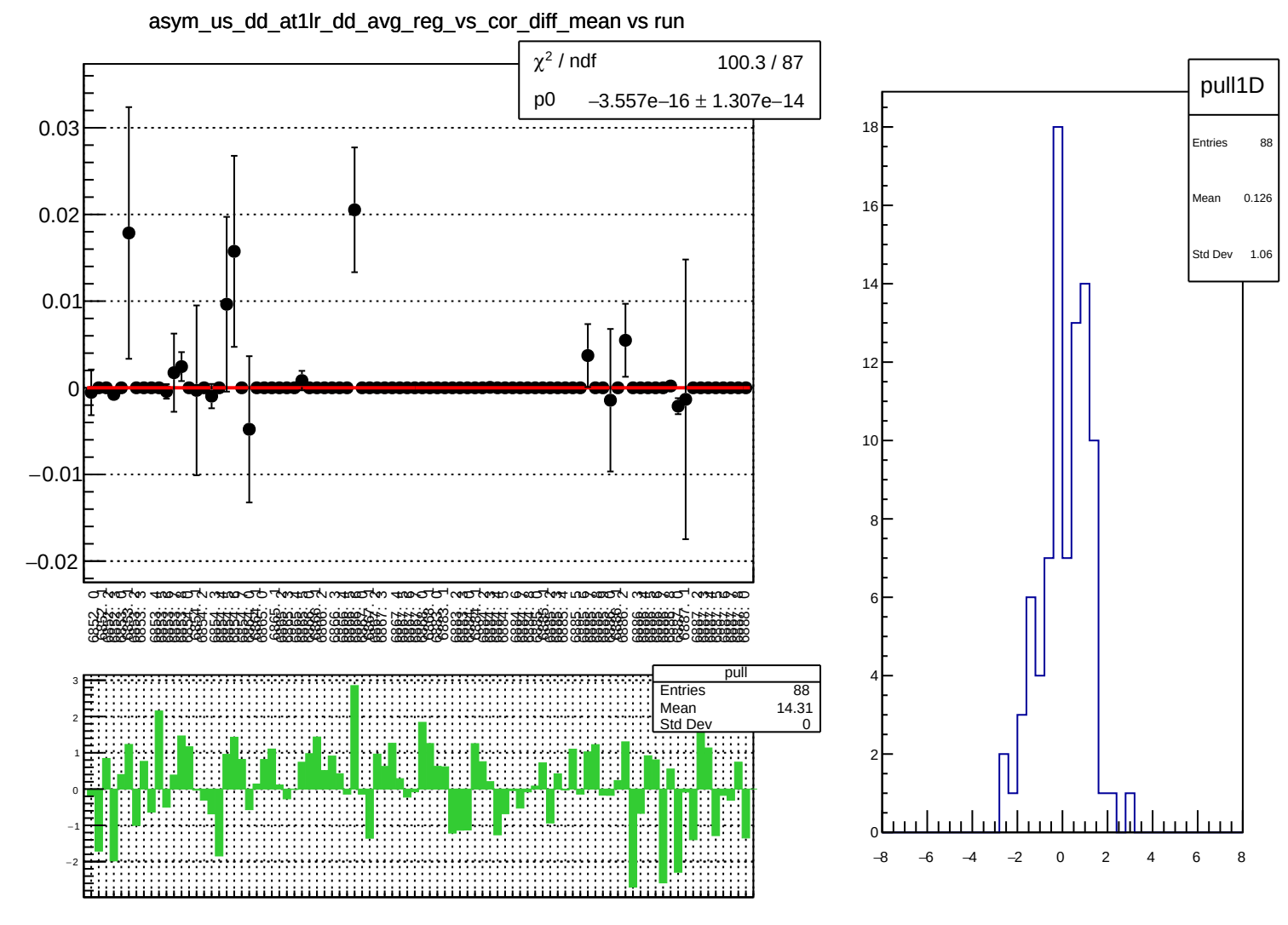

pull1D
Entries 88
Mean 2.965e−05
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

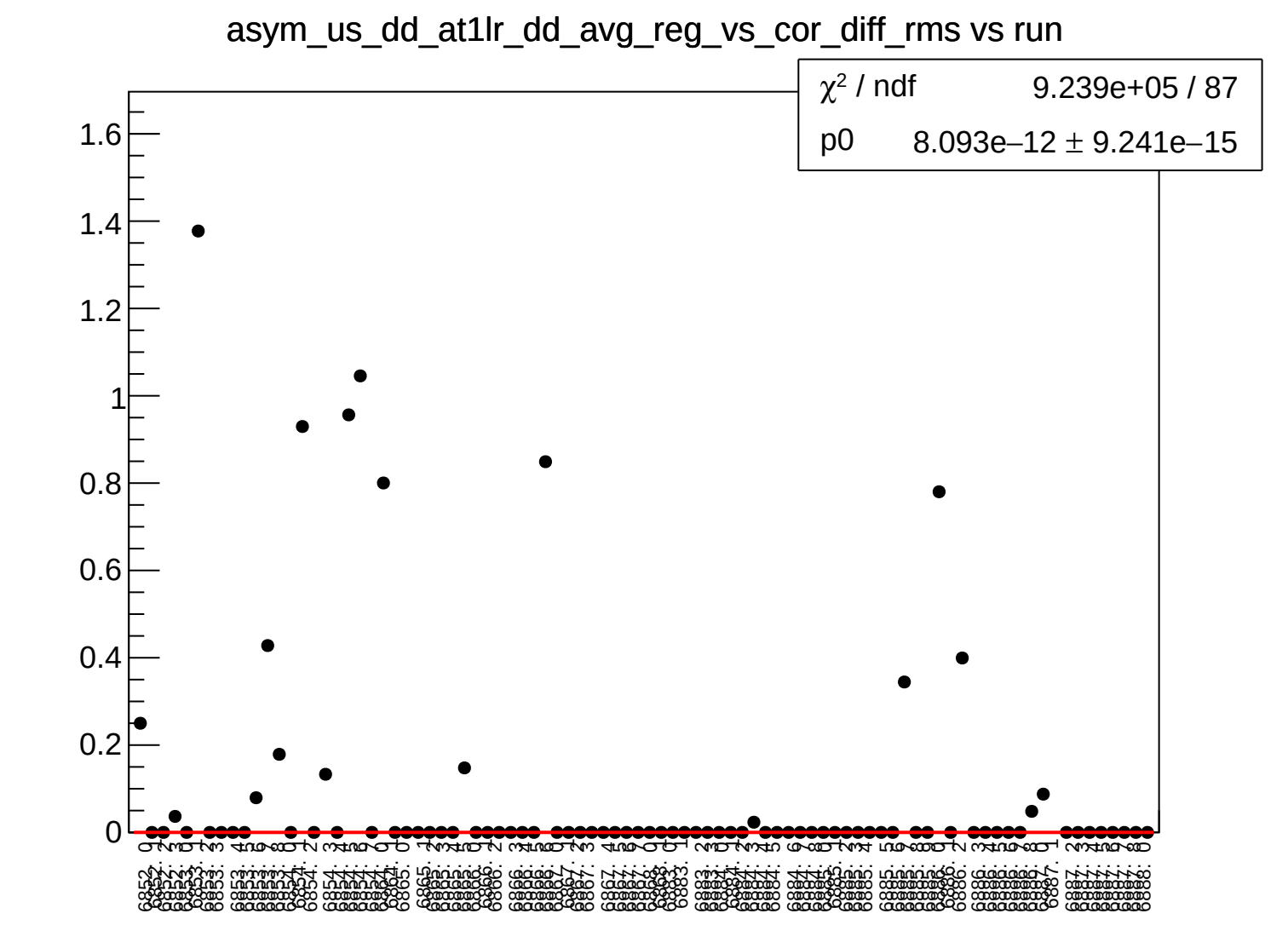

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.092e+04 / 87
p0 150.3 ± 0.1163
190
180
170
160
150
140
130

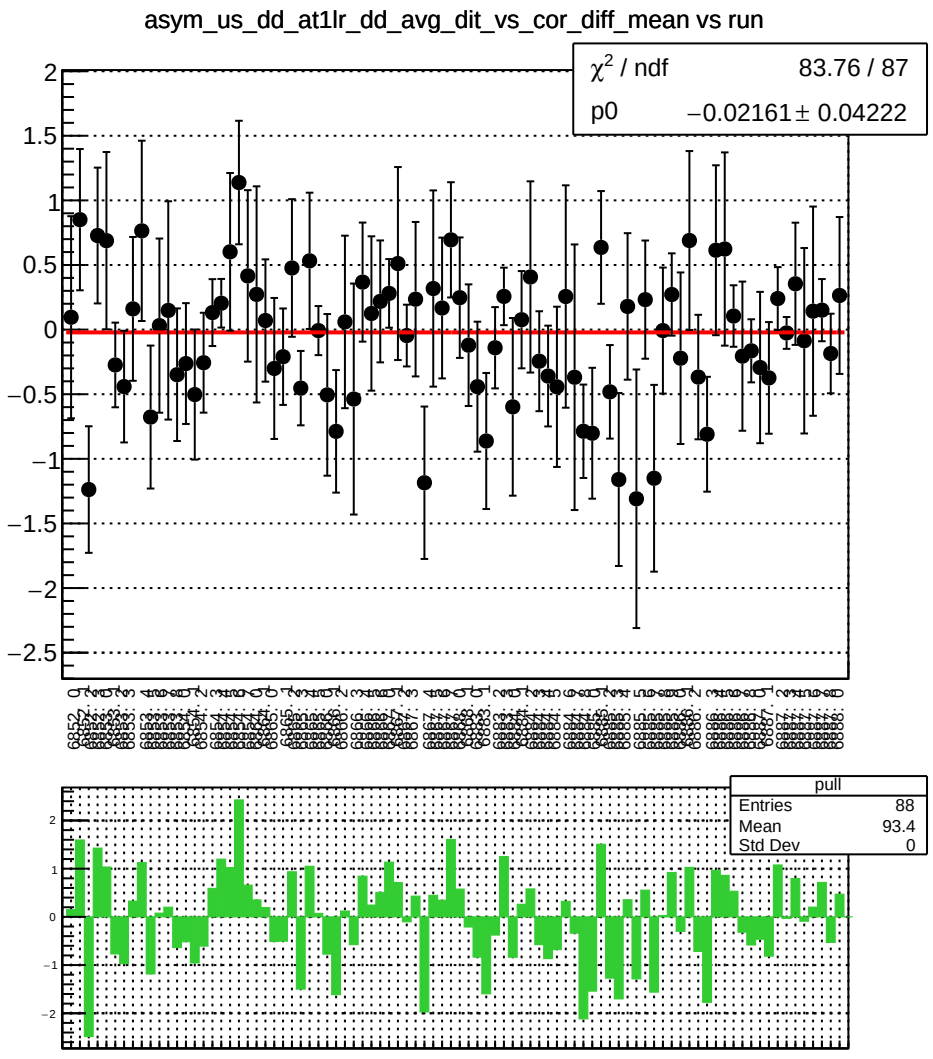

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 80.45 / 87
p0 2798 ± 2387
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −56.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

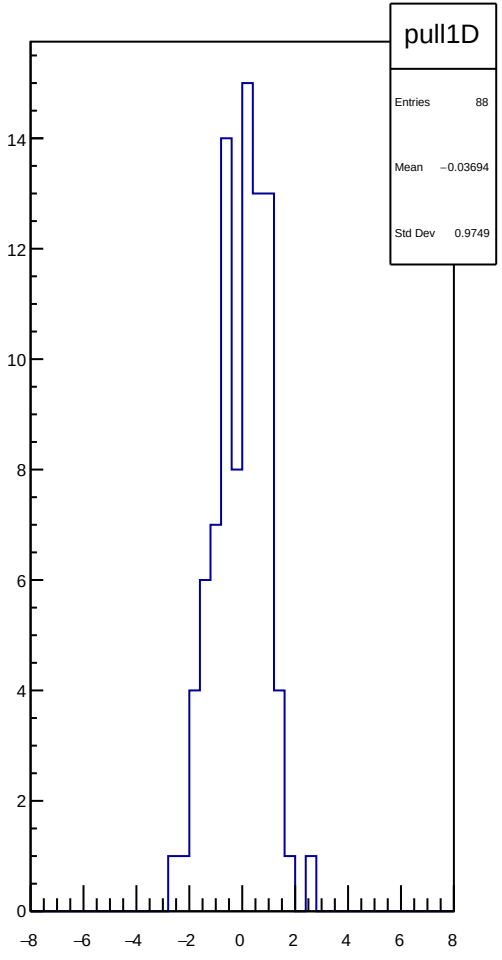

pull1D
Entries 88
Mean 0.01271
Std Dev 0.9561
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

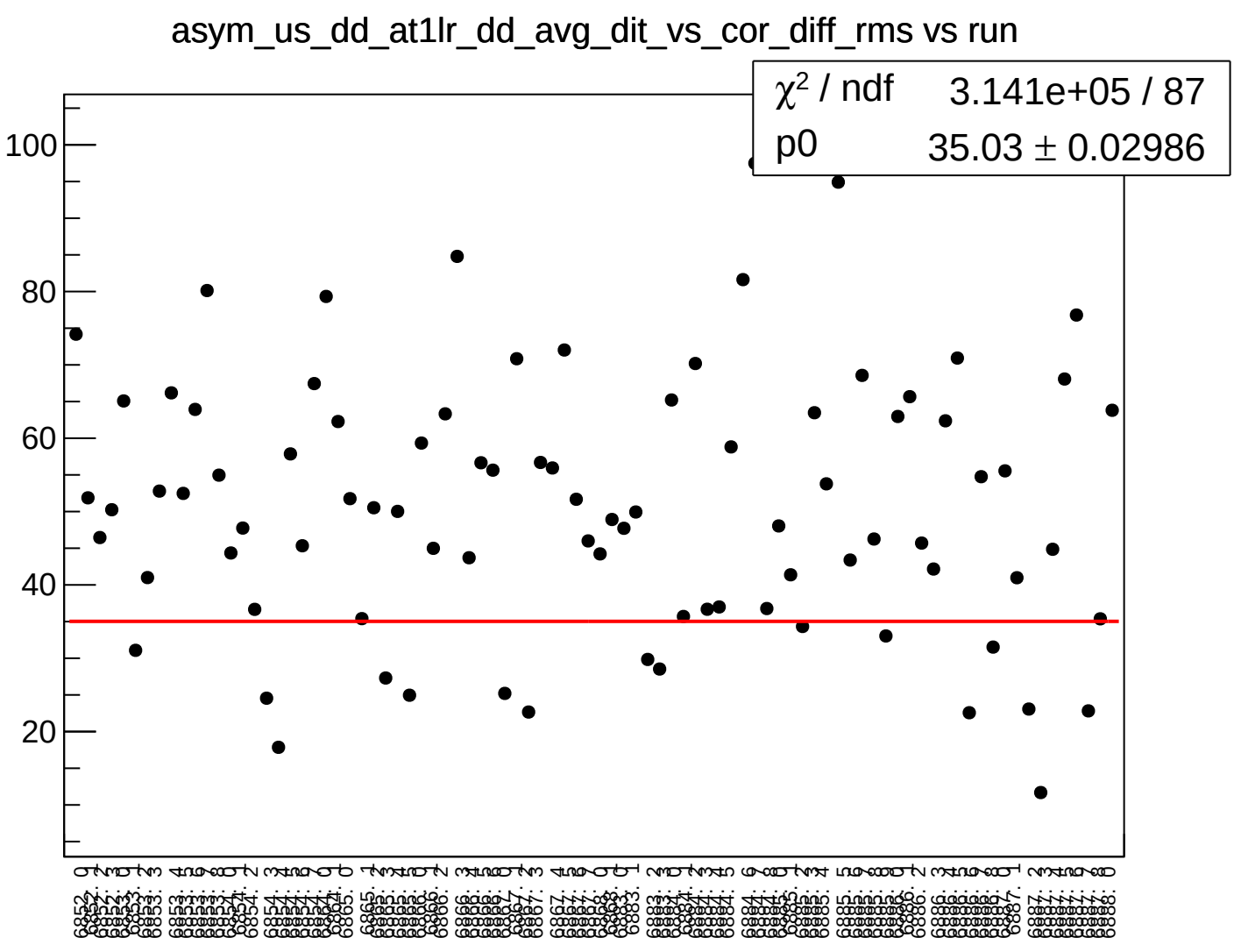

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 194 / 87
p0 2195 ± 1.688
2400
2350
2300
2250
2200
2150
2100

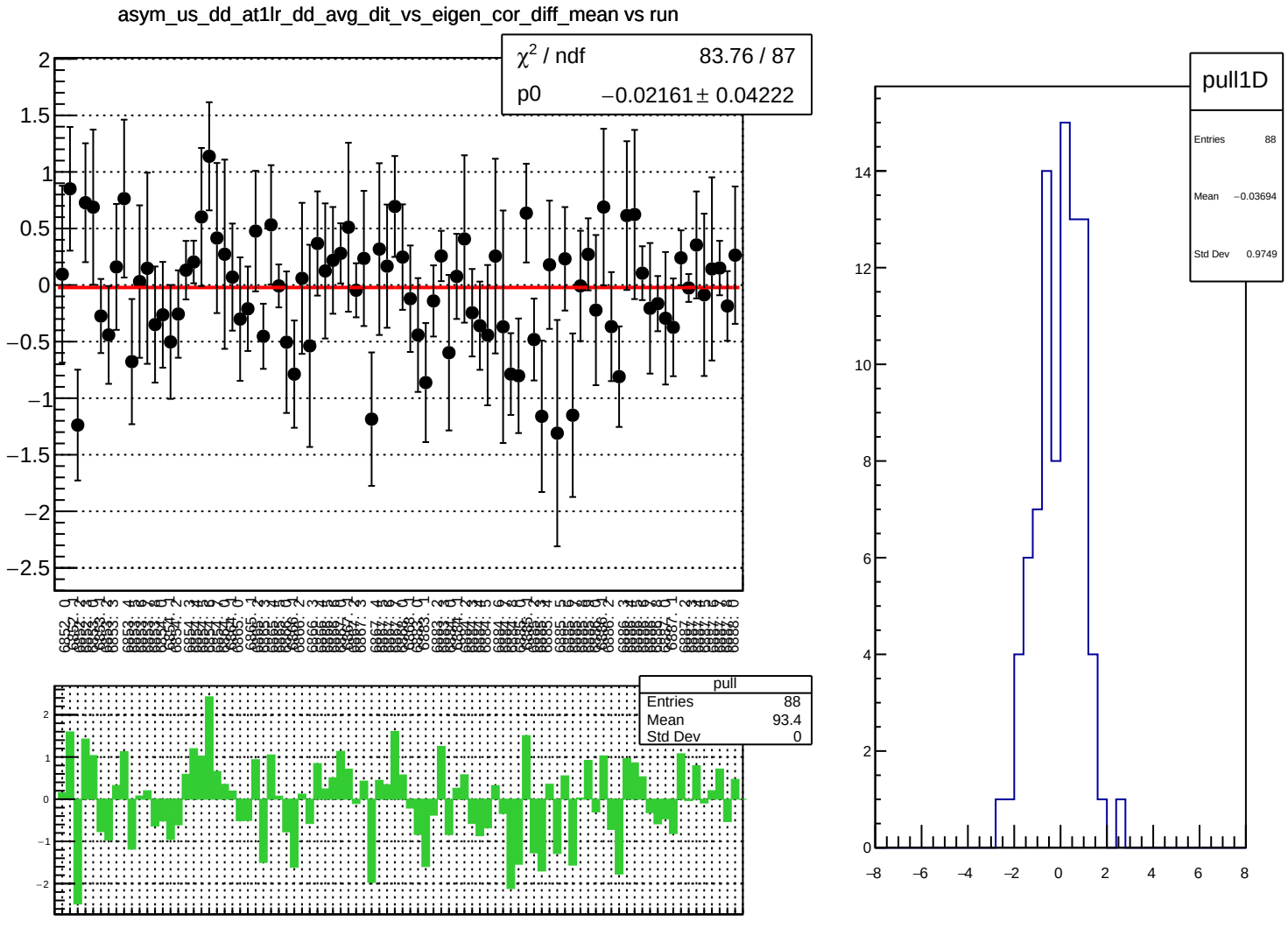

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 87
p0 −3.557e−16 ± 1.307e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 88
Mean 14.31
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.126
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

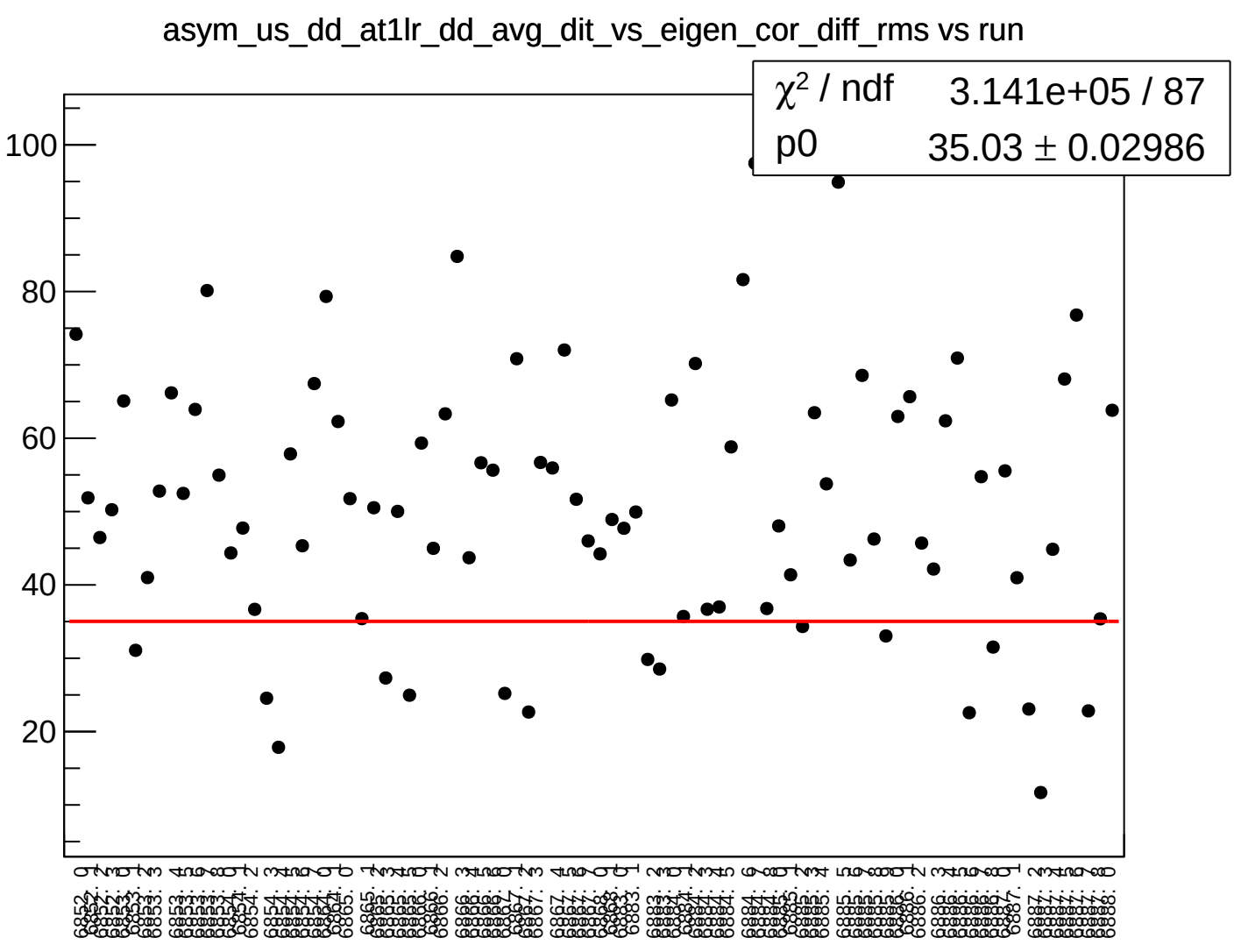

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.239e+05 / 87
p0 8.093e−12 ± 9.241e−15
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

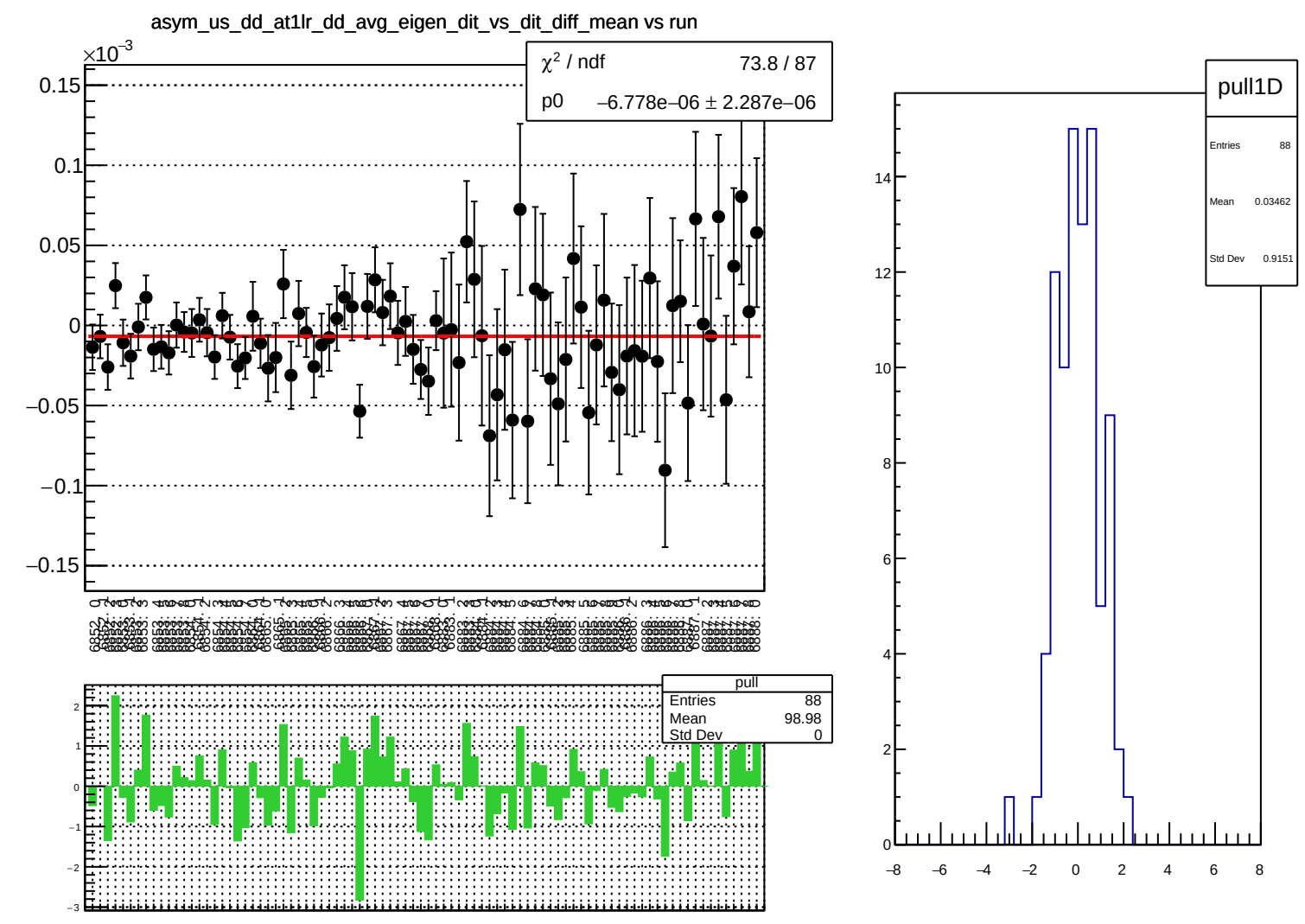

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.76 / 87
p0 −0.02161 ± 0.04222
pull
Entries 88
Mean 93.4
Std Dev 0

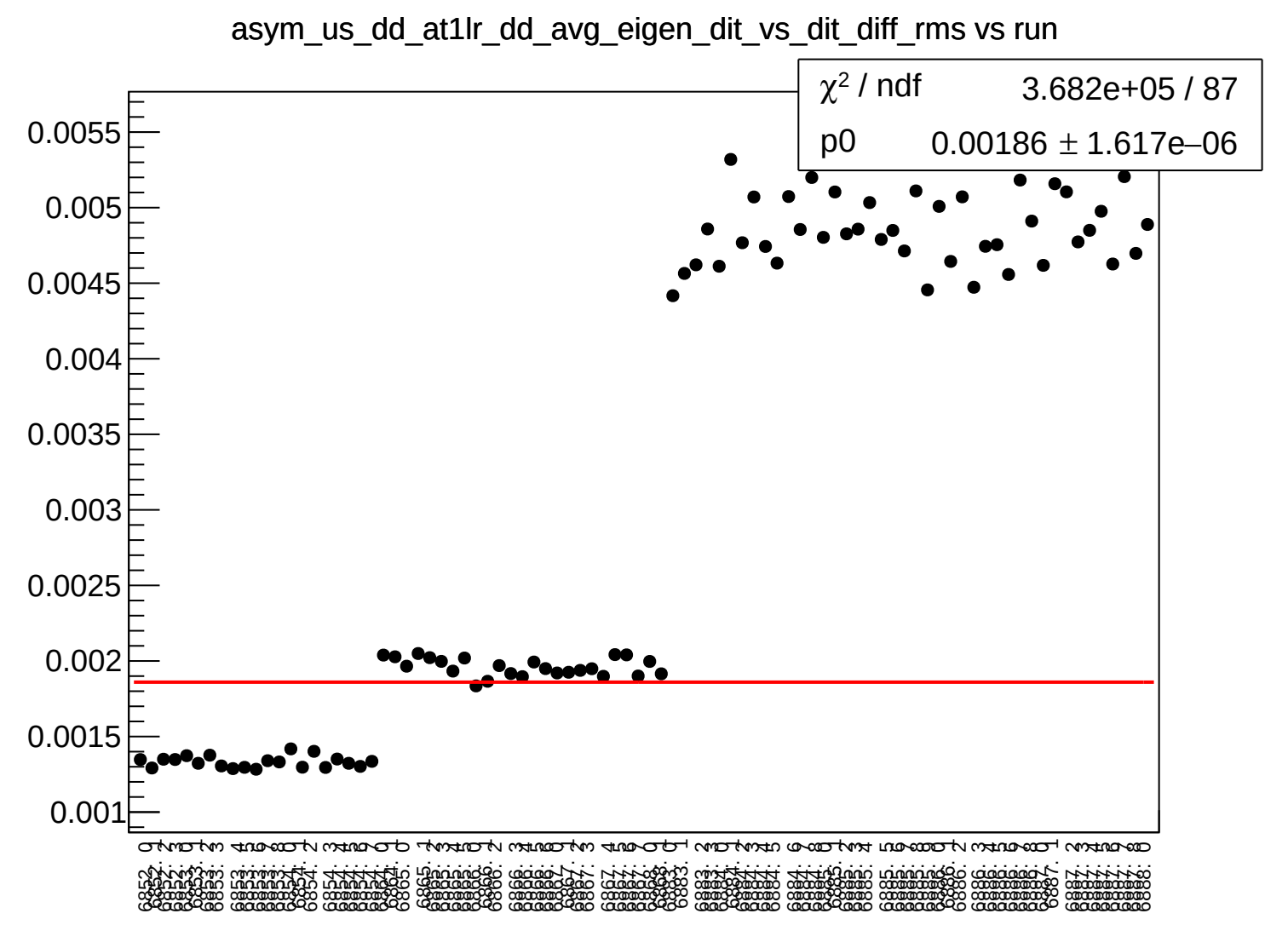

pull1D
Entries 88
Mean −0.03694
Std Dev 0.9749

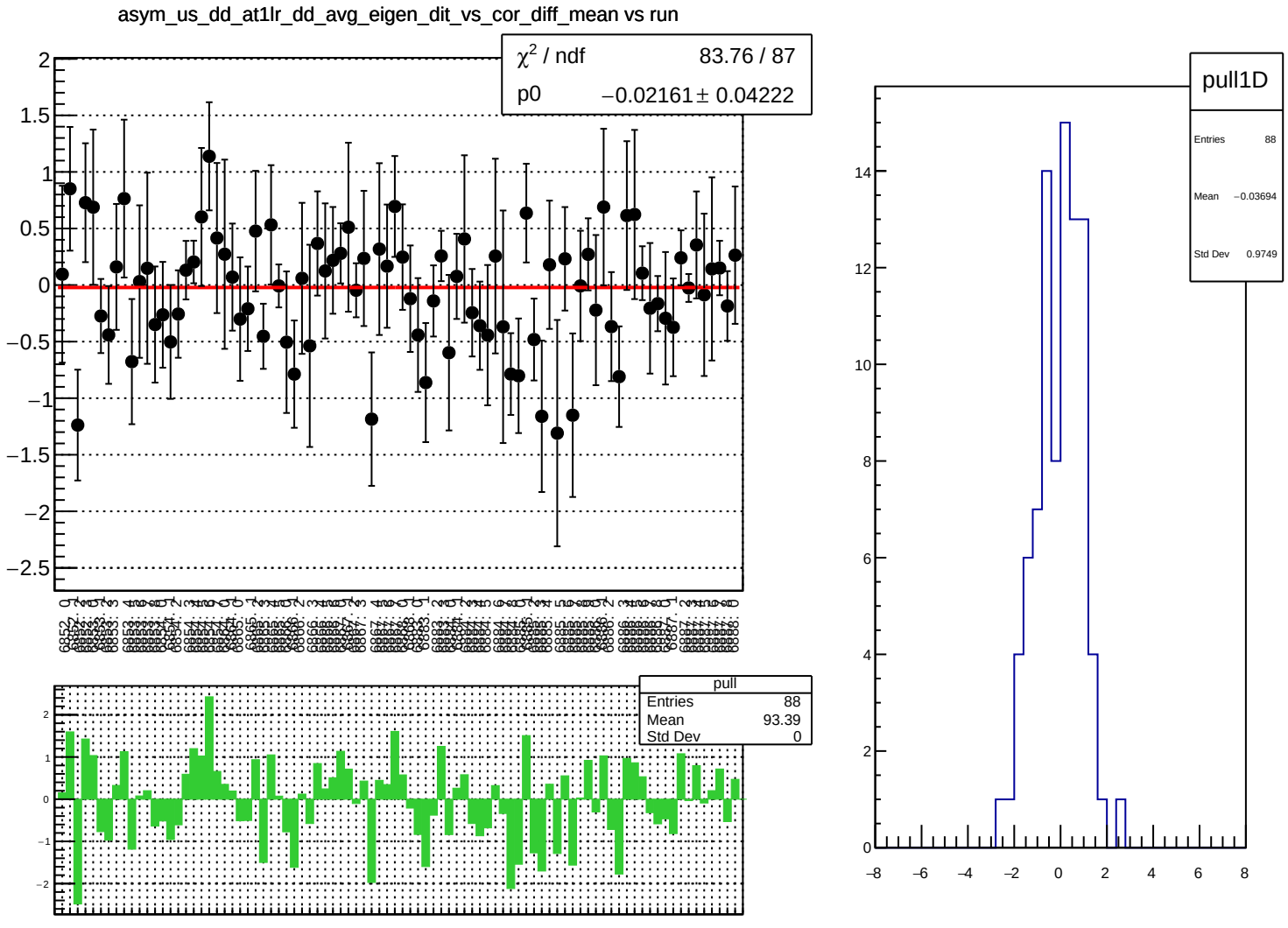

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.141e+05 / 87
p0 35.03 ± 0.02986
100
80
60
40
20

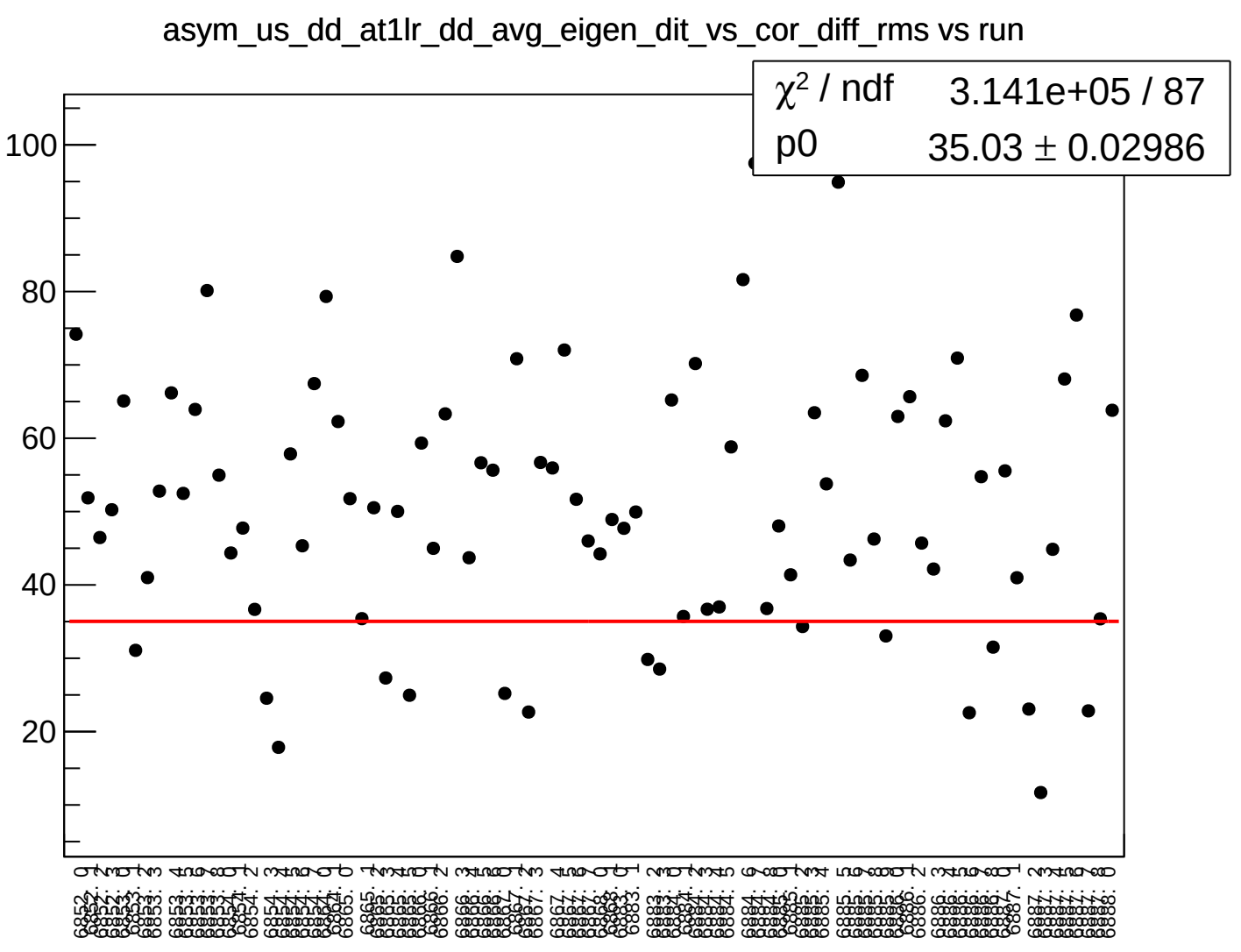

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.76 / 87
p0 −0.02161 ± 0.04222
pull
Entries 88
Mean 93.4
Std Dev 0
pull1D
Entries 88
Mean −0.03694
Std Dev 0.9749

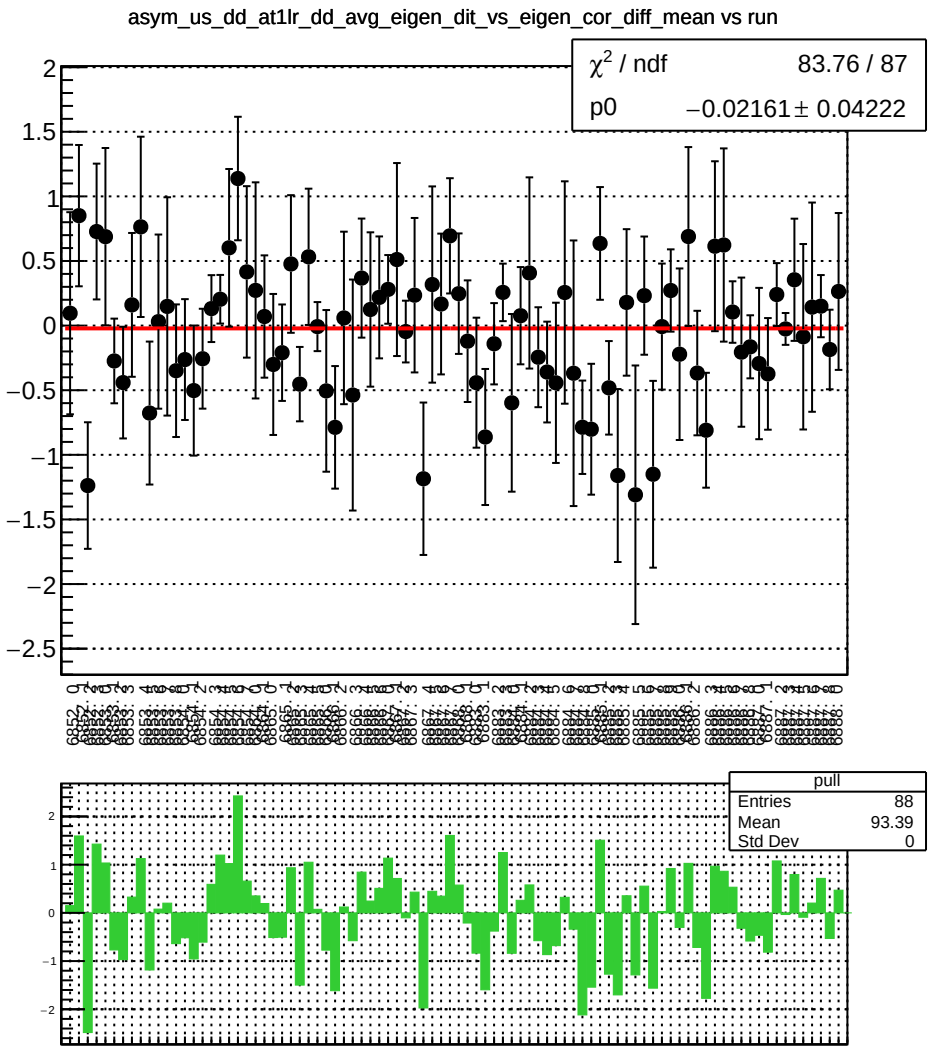

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.141e+05 / 87
p0 35.03 ± 0.02986
100
80
60
40
20

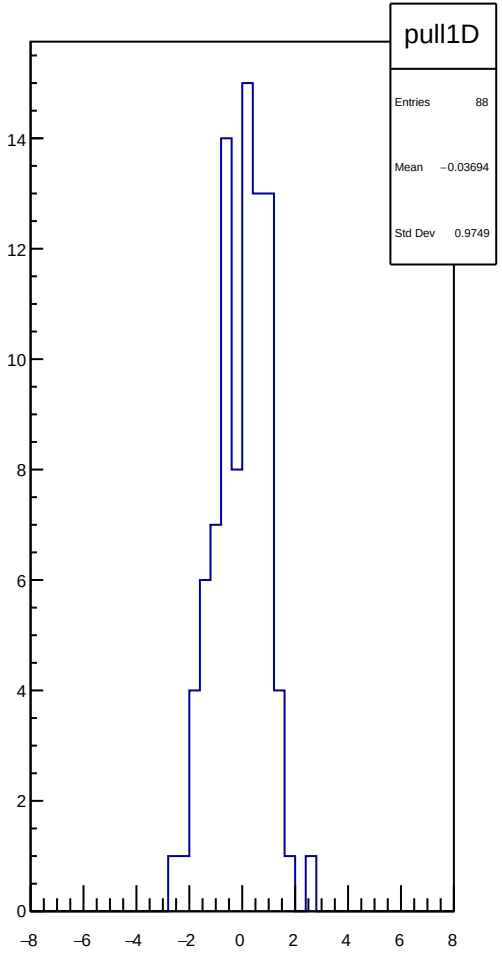

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 73.8 / 87
p0 −6.778e−06 ± 2.287e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 98.98
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.03462
Std Dev 0.9151
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

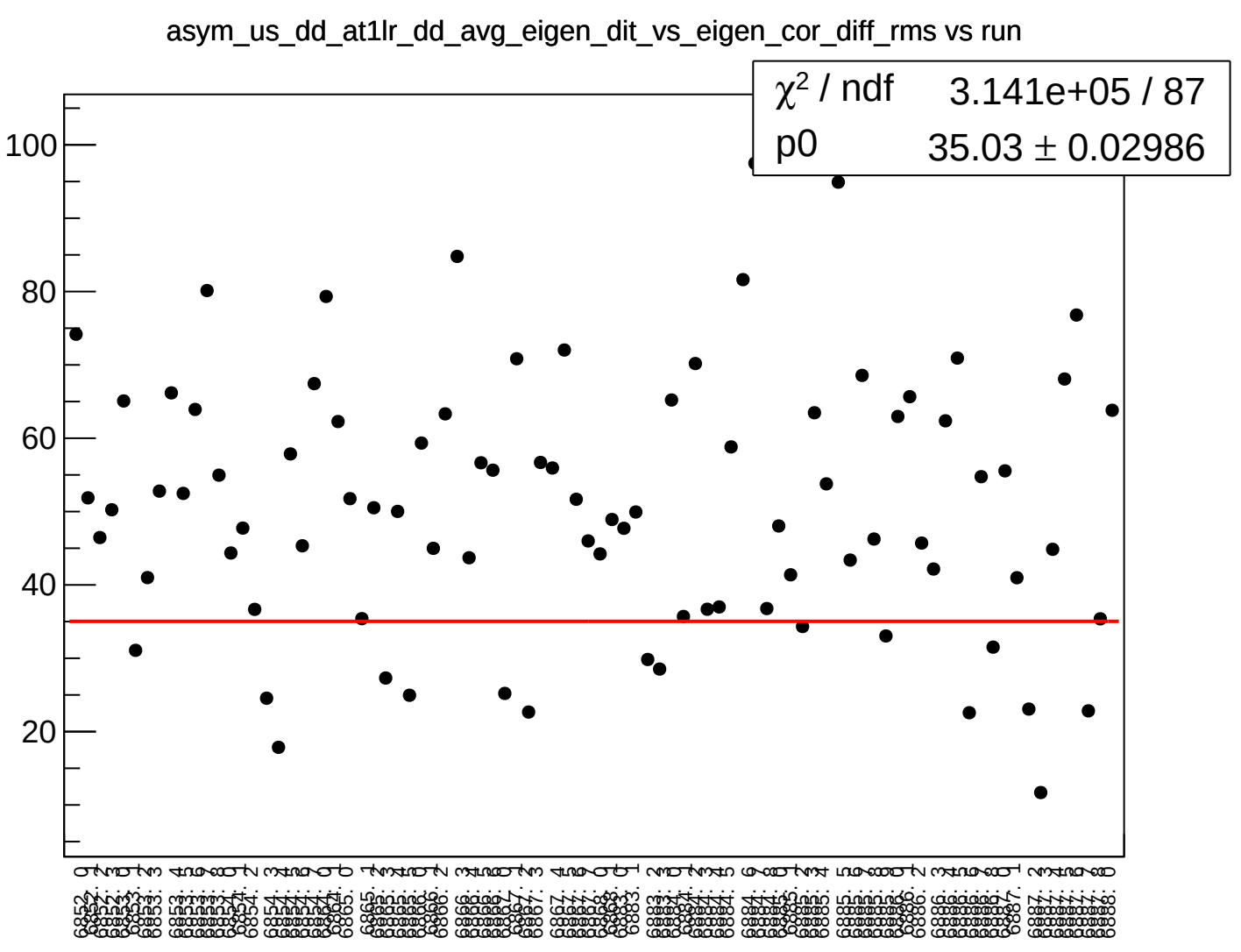

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.682e+05 / 87
p0 0.00186 ± 1.617e–06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

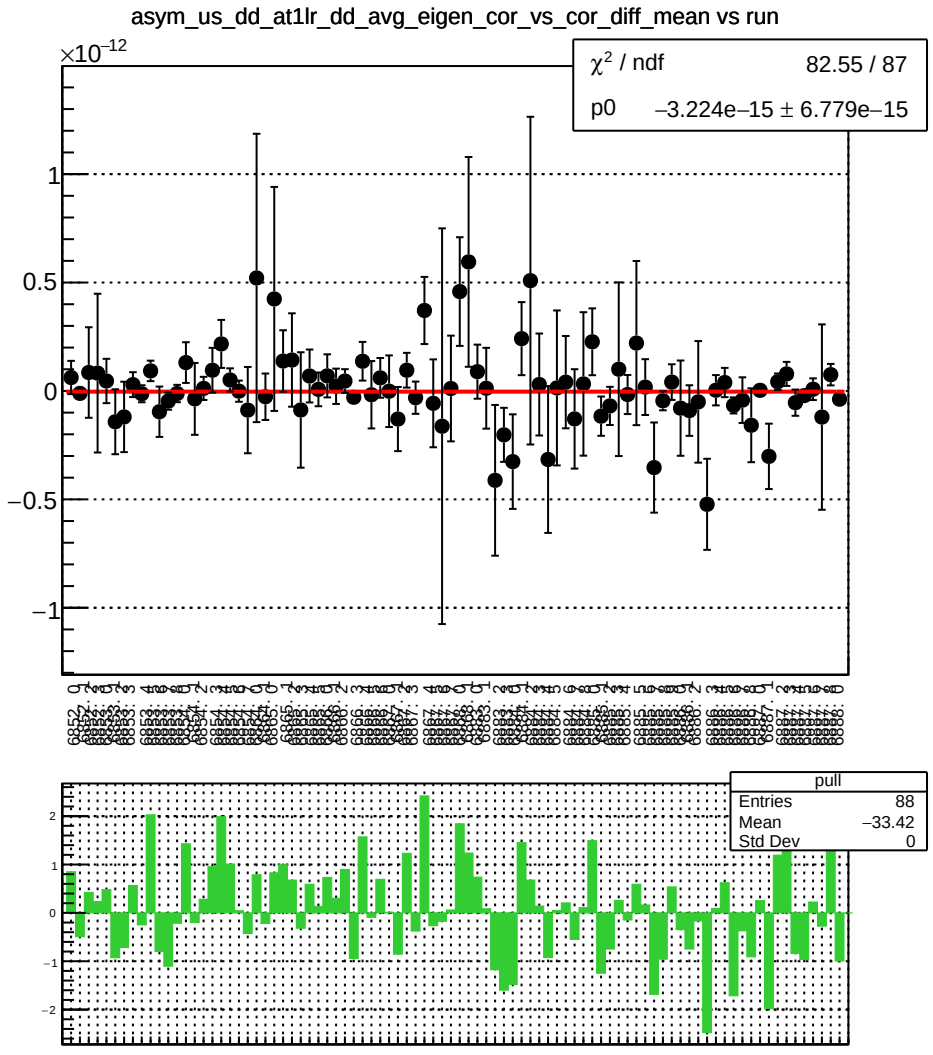

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.76 / 87
p0 −0.02161 ± 0.04222
pull
Entries 88
Mean 93.39
Std Dev 0
pull1D
Entries 88
Mean −0.03694
Std Dev 0.9749

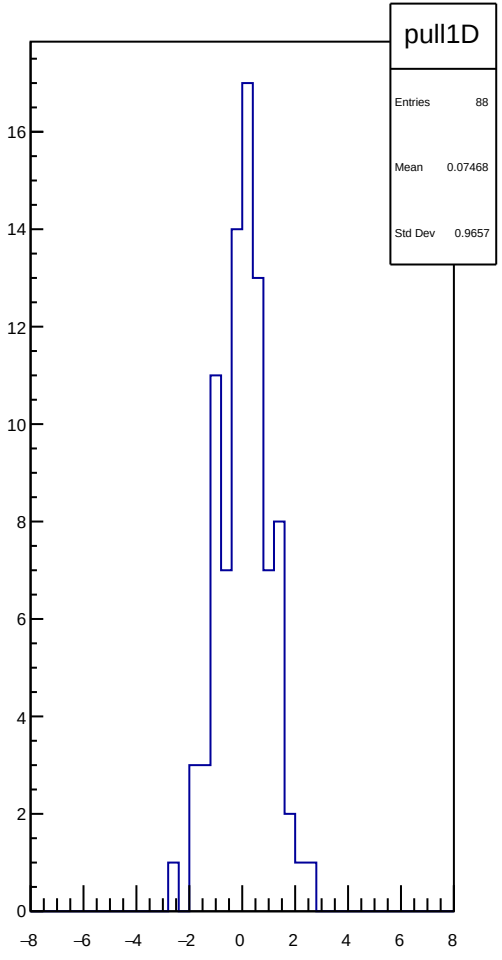

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.141e+05 / 87
p0 35.03 ± 0.02986
100
80
60
40
20

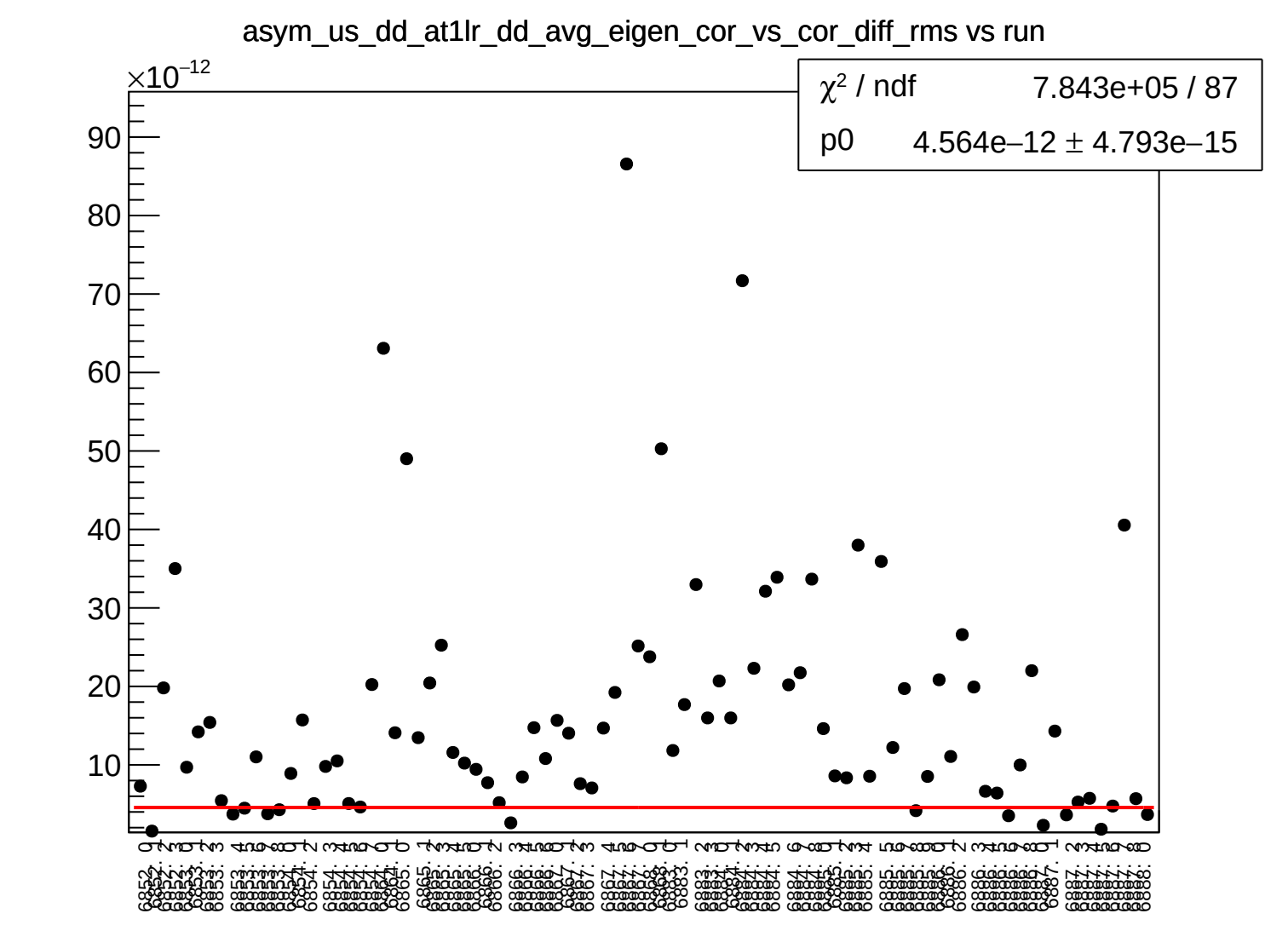

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.76 / 87
p0 −0.02161 ± 0.04222
pull
Entries 88
Mean 93.39
Std Dev 0

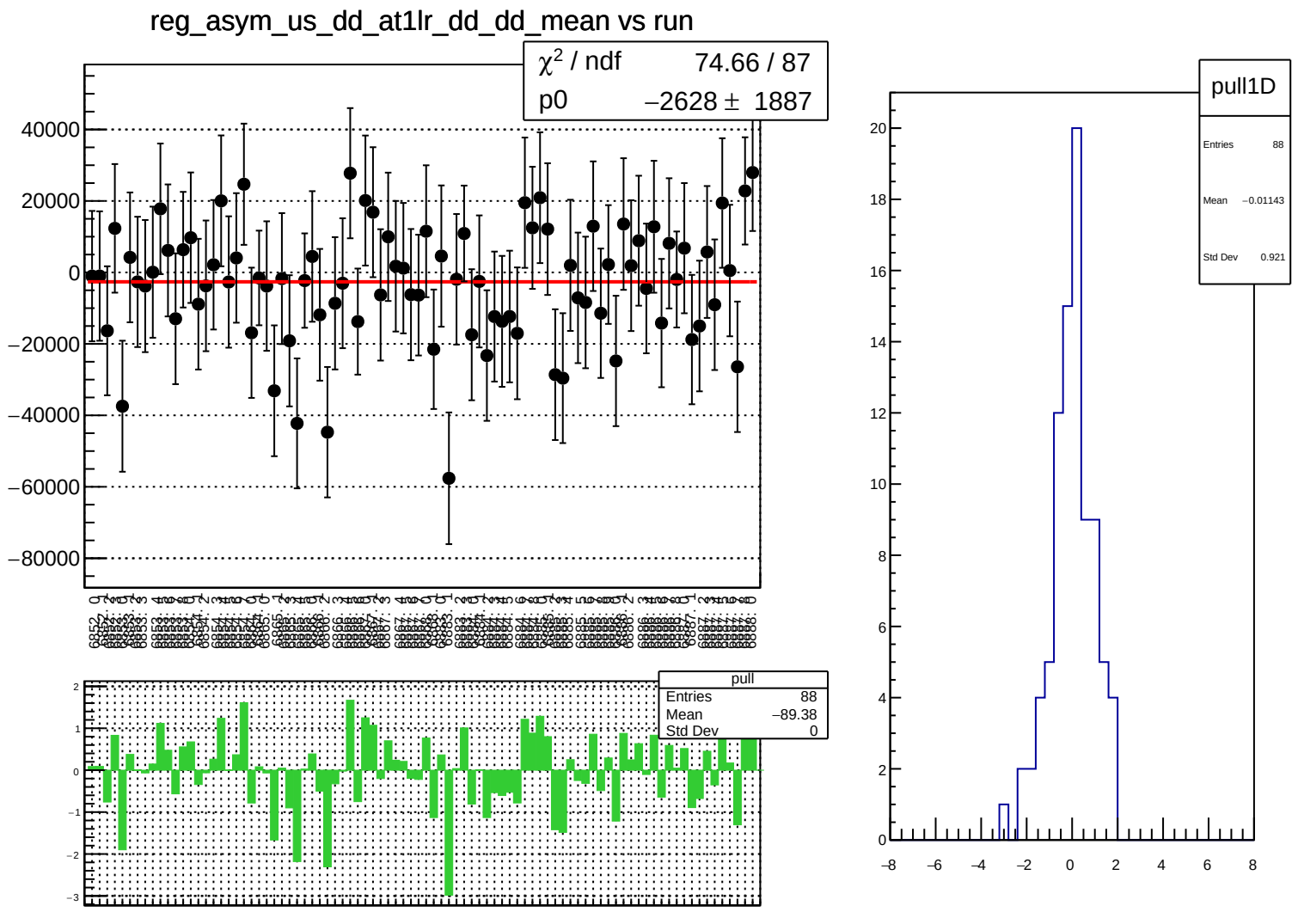

pull1D
Entries 88
Mean −0.03694
Std Dev 0.9749

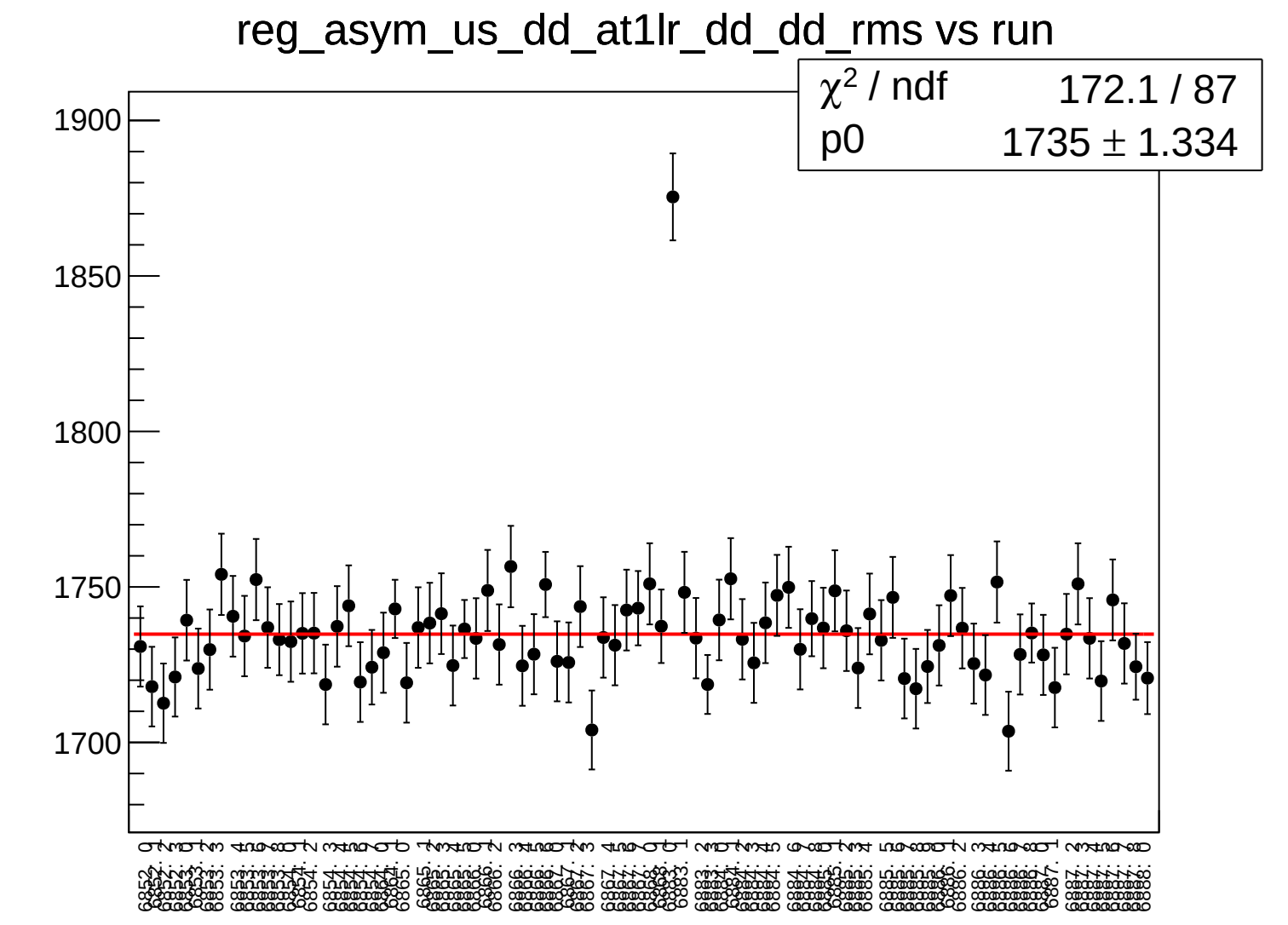

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.141e+05 / 87
p0 35.03 ± 0.02986
100
80
60
40
20

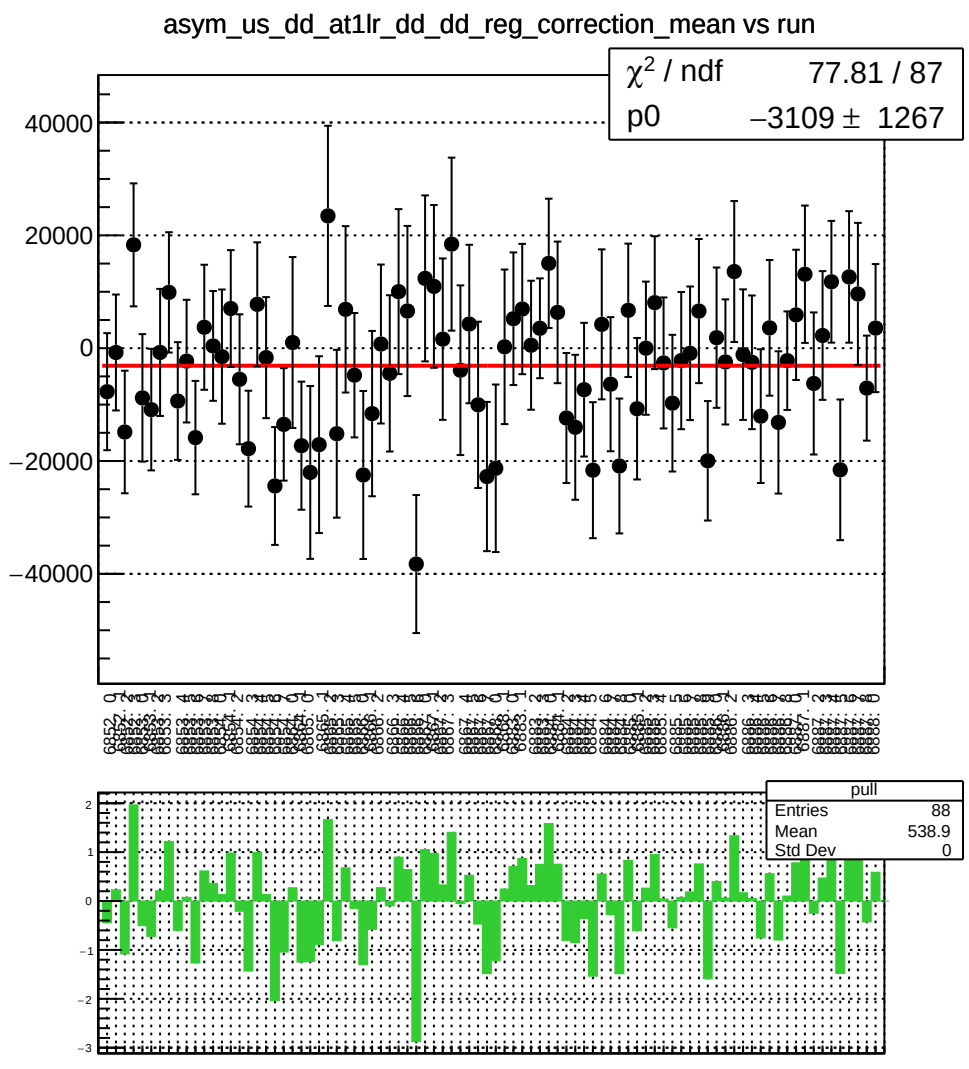

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 82.55 / 87
p0 −3.224e−15 ± 6.779e−15
pull
Entries 88
Mean −33.42
Std Dev 0

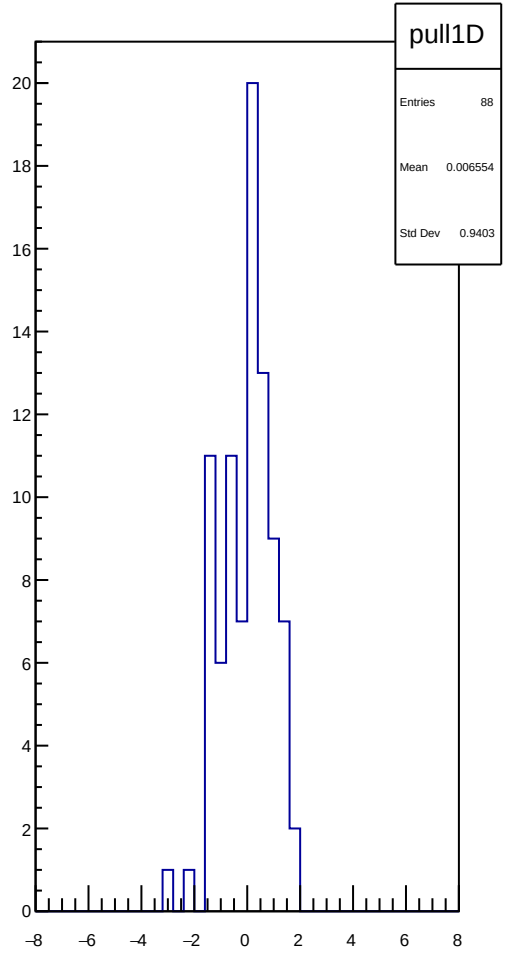

pull1D
Entries 88
Mean 0.07468
Std Dev 0.9657

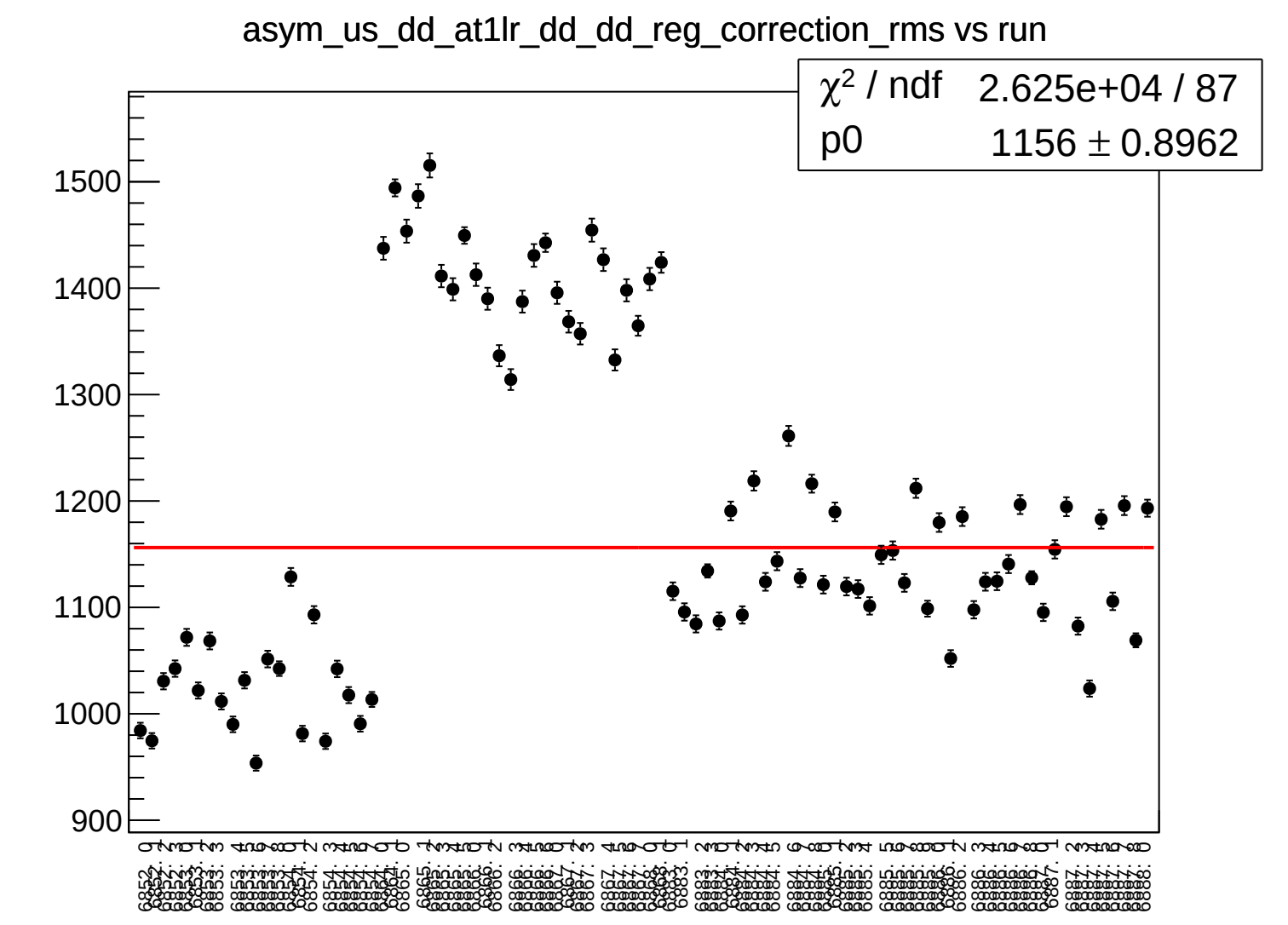

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.843e+05 / 87
p0 4.564e−12 ± 4.793e−15
90
80
70
60
50
40
30
20
10

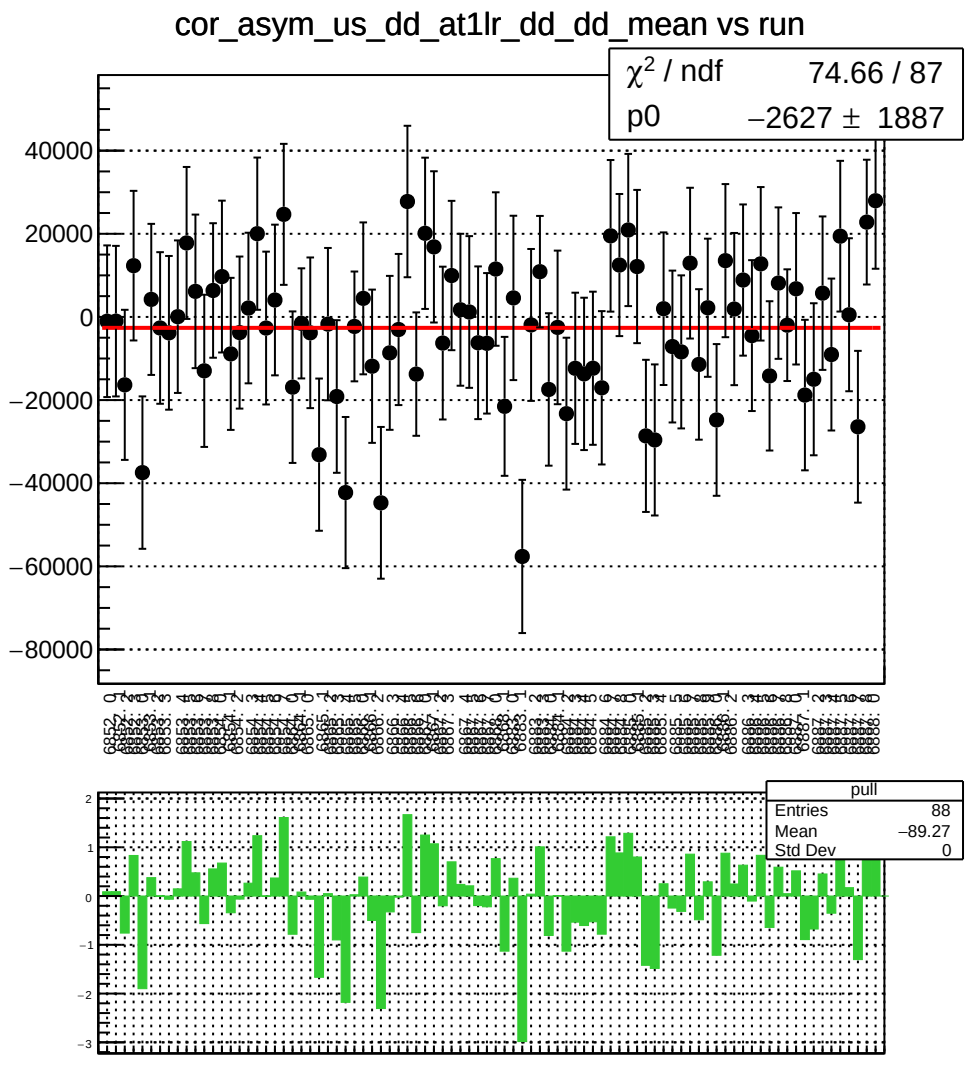

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 74.66 / 87
p0 −2628 ± 1887
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −89.38
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01143
Std Dev 0.921
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

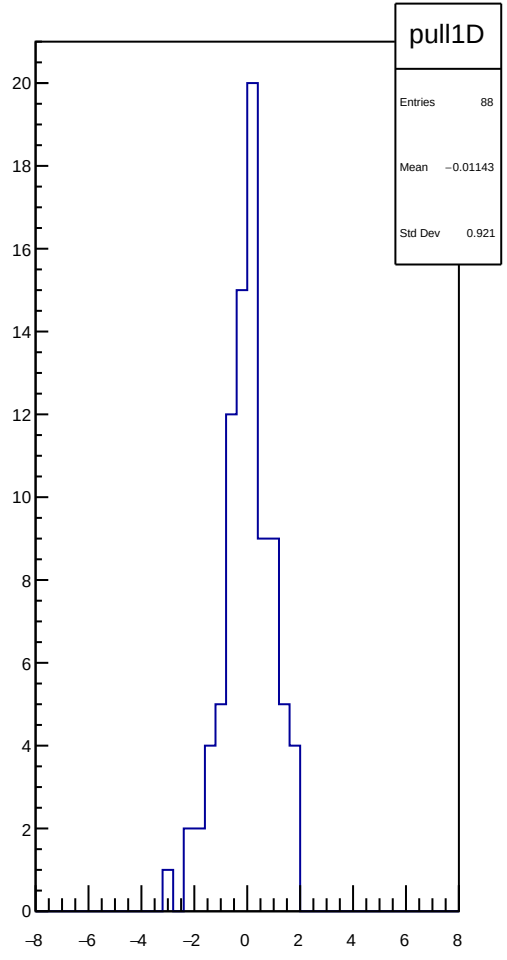

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 172.1 / 87
p0 1735 ± 1.334
1900
1850
1800
1750
1700


asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 77.81 / 87
p0 −3109 ± 1267
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 538.9
Std Dev 0
2
1
0
−1
−2
−3

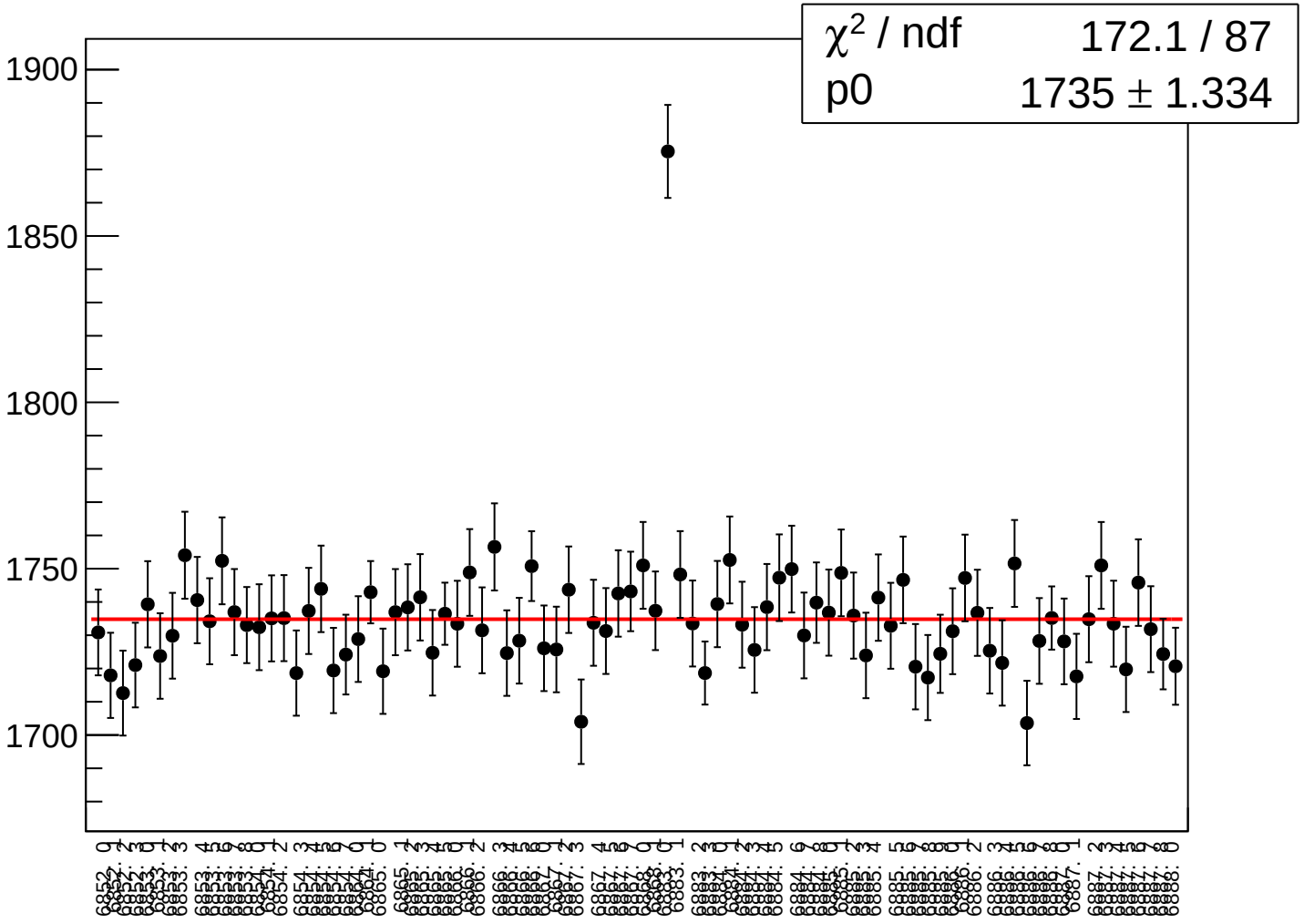

pull1D
Entries 88
Mean 0.006554
Std Dev 0.9403
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

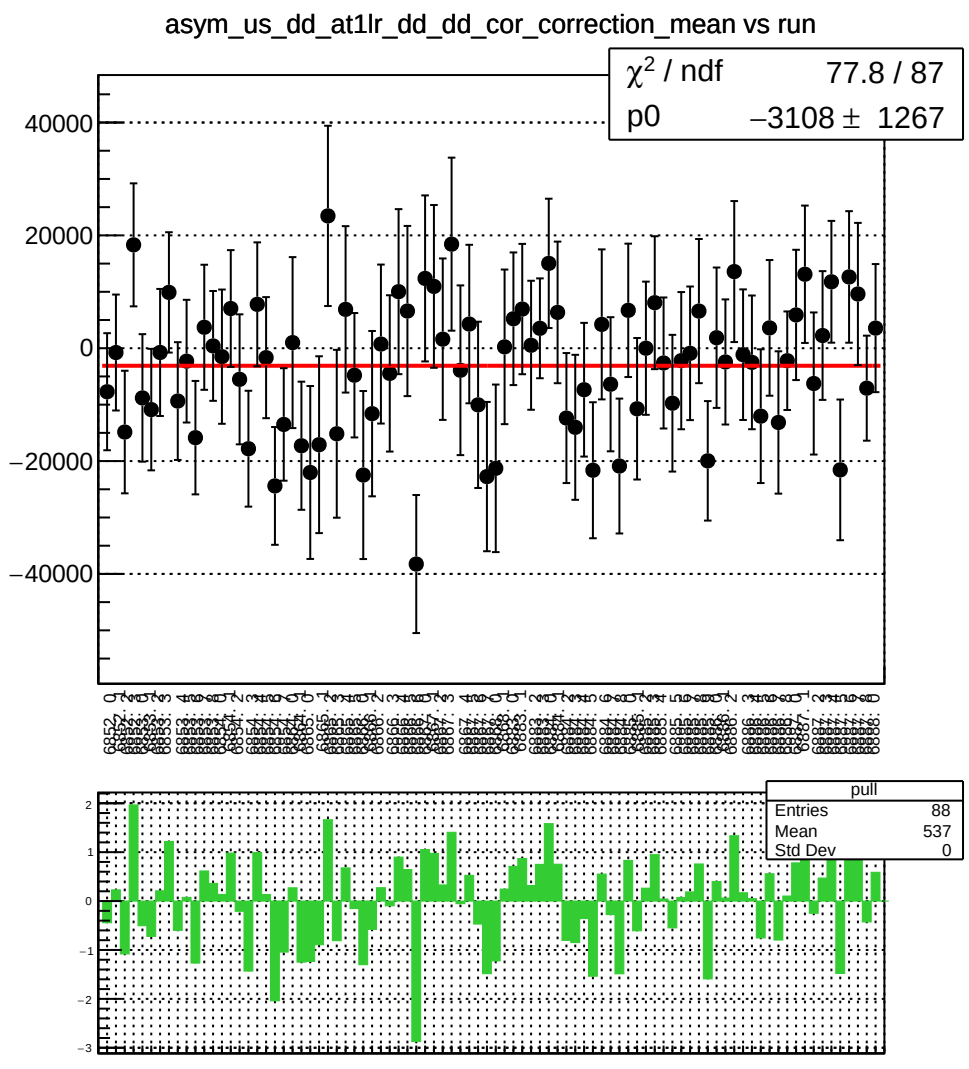

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.625e+04 / 87
p0 1156 ± 0.8962
1500
1400
1300
1200
1100
1000
900

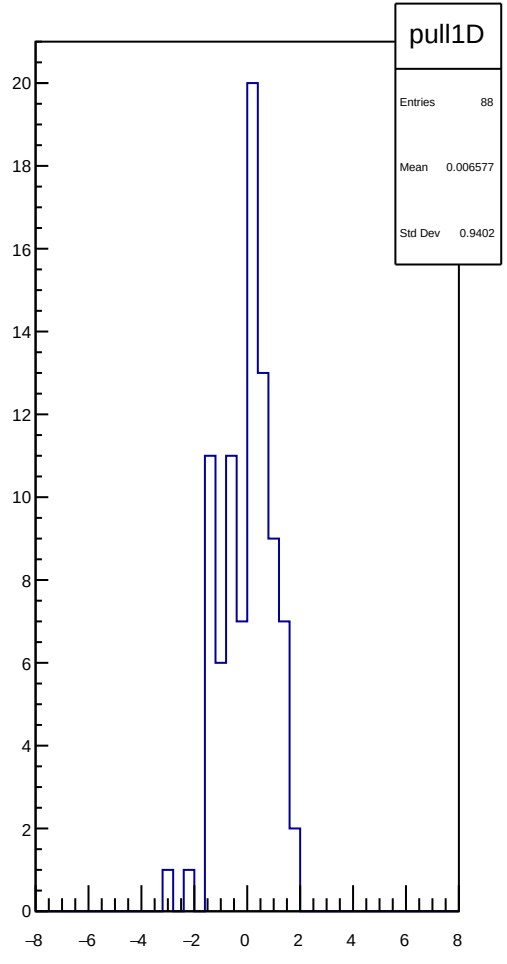

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 74.66 / 87
p0 −2627 ± 1887
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −89.27
Std Dev 0
2
1
0
−1
−2
−3

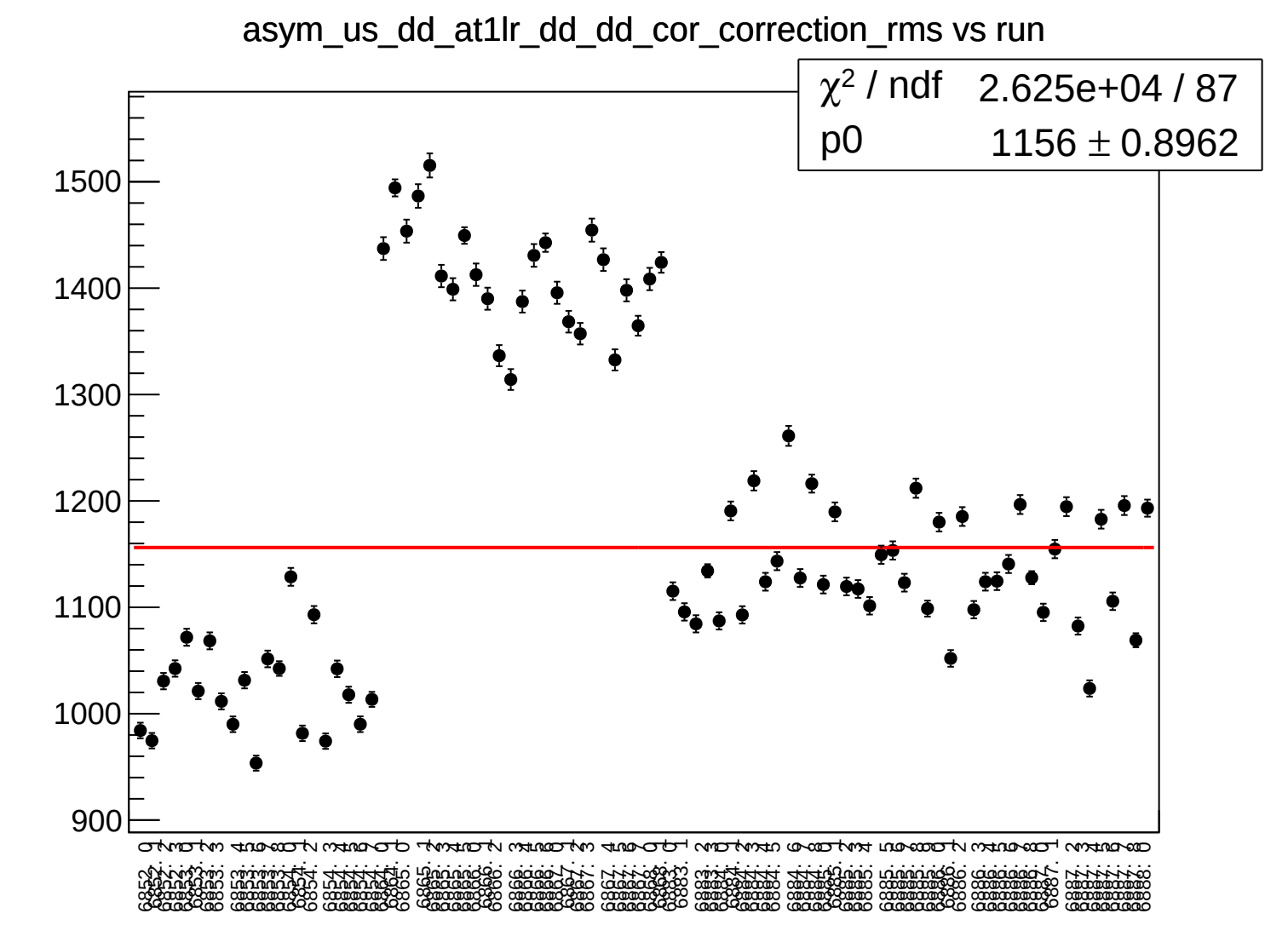

pull1D
Entries 88
Mean −0.01143
Std Dev 0.921
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

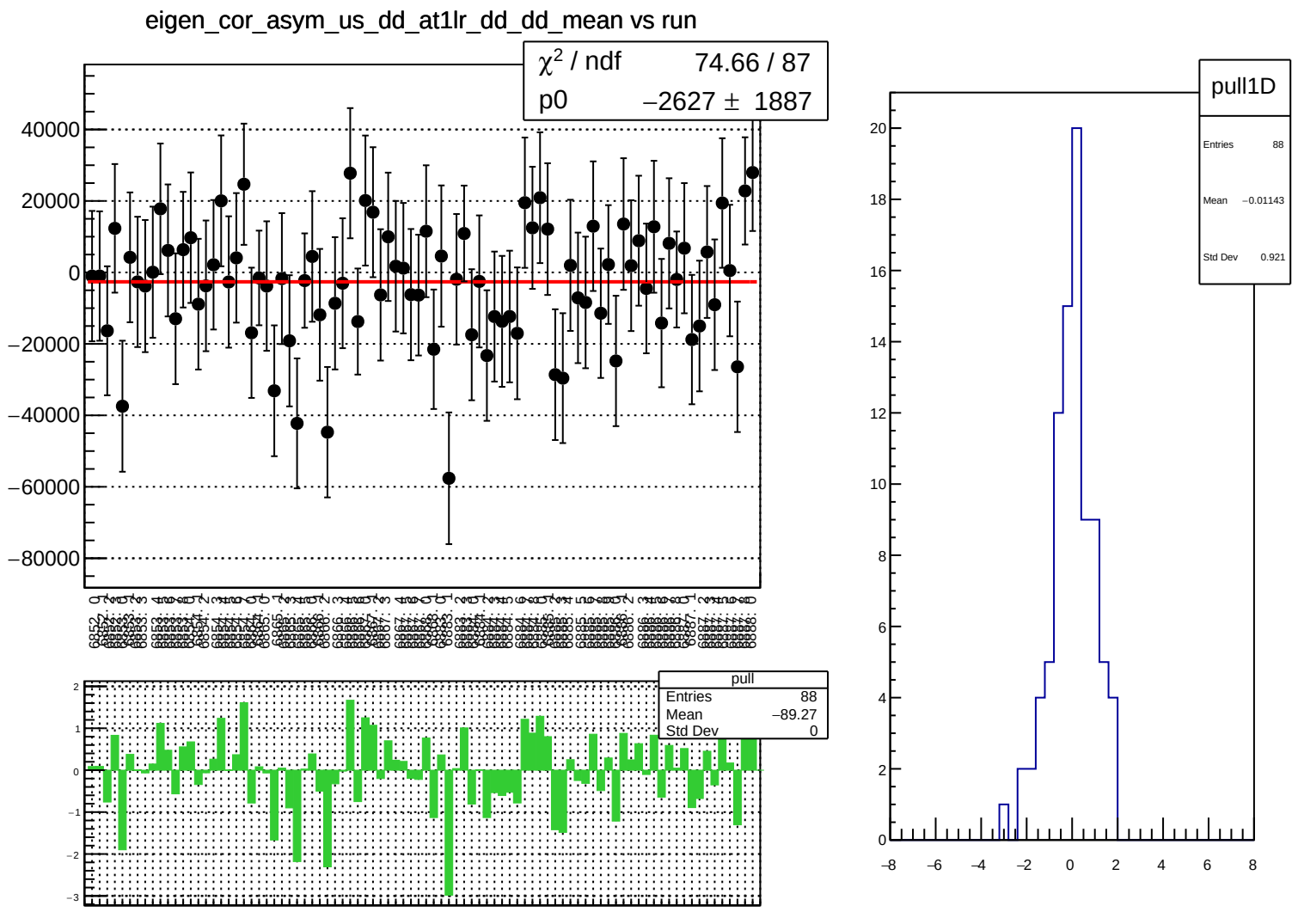
cor_asym_us_dd_at1lr_dd_dd_rms vs run

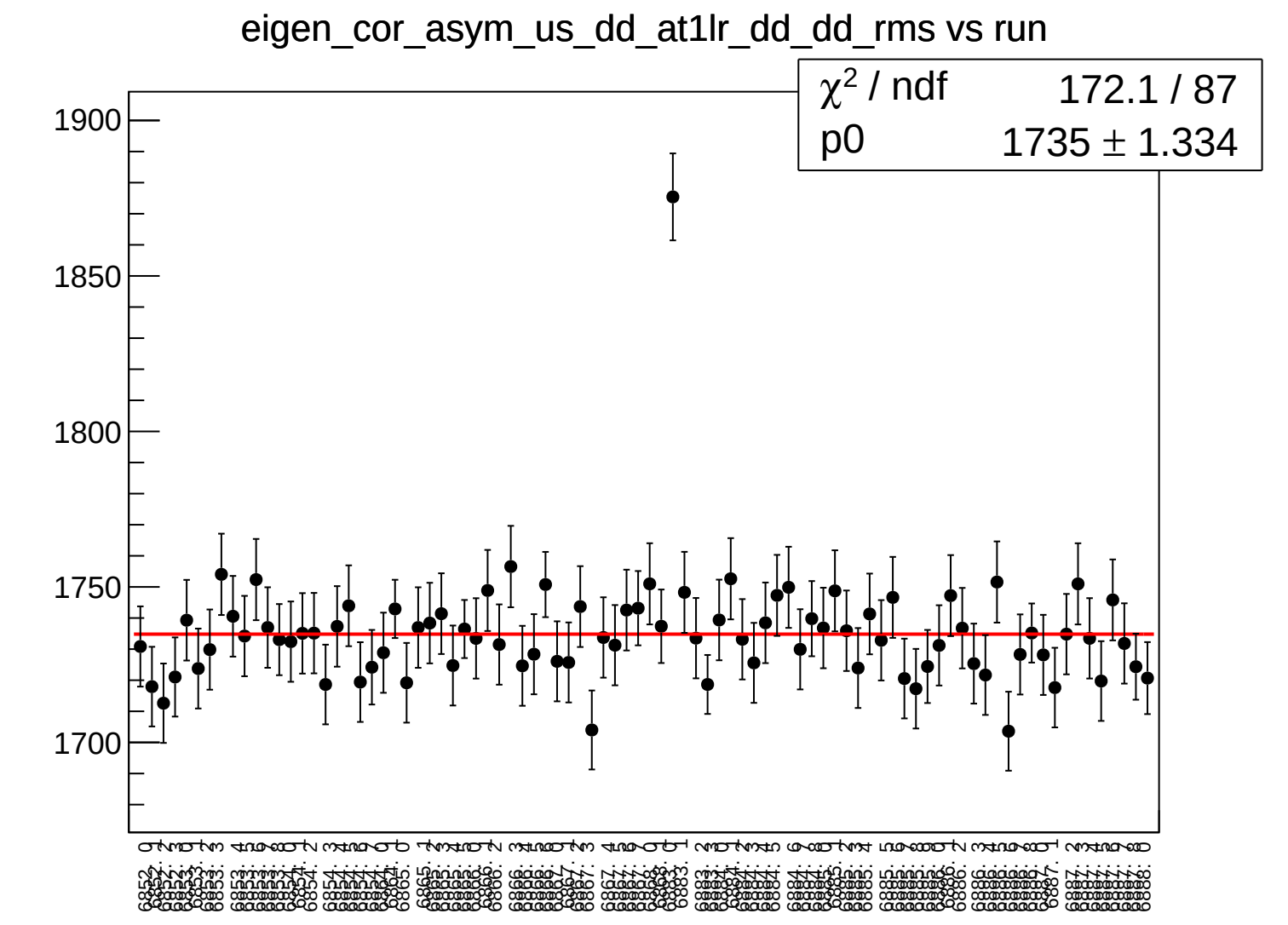


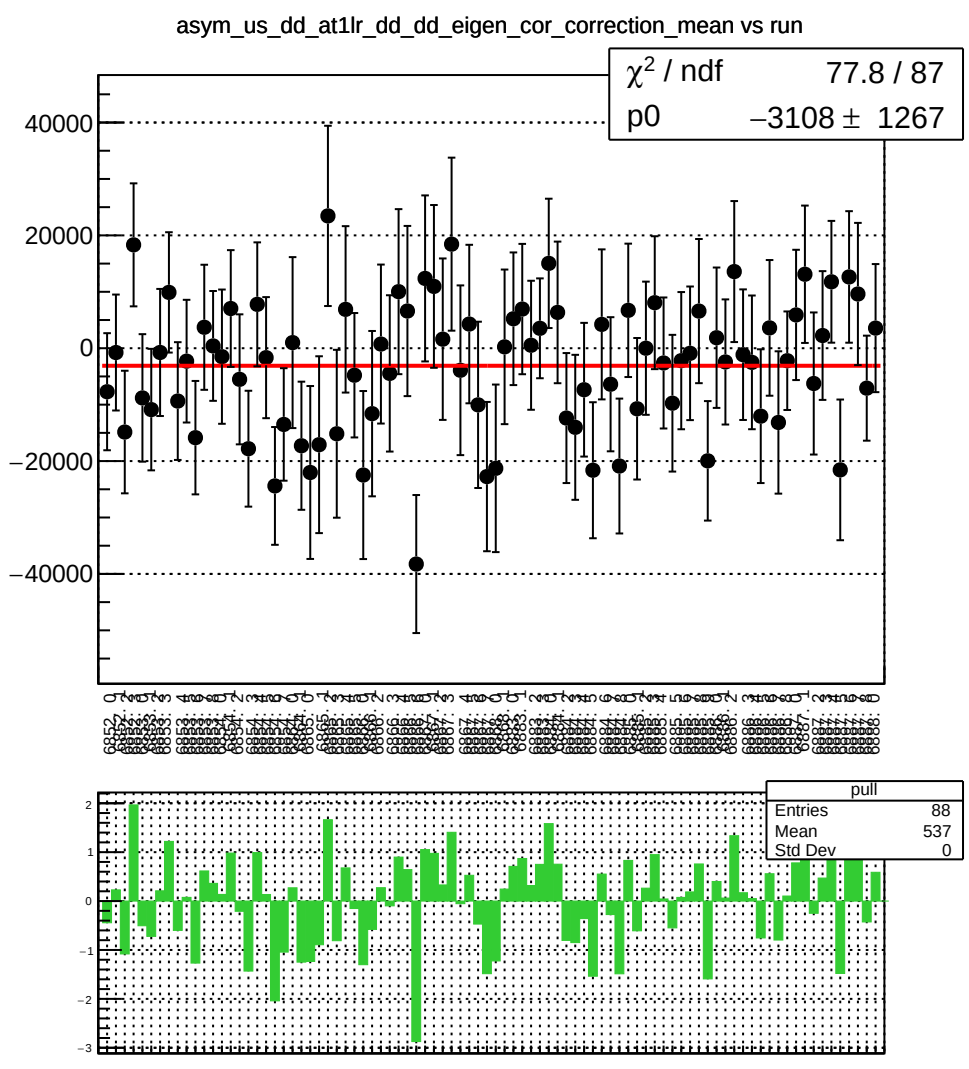

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 77.8 / 87
p0 −3108 ± 1267
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 537
Std Dev 0
2
1
0
−1
−2
−3

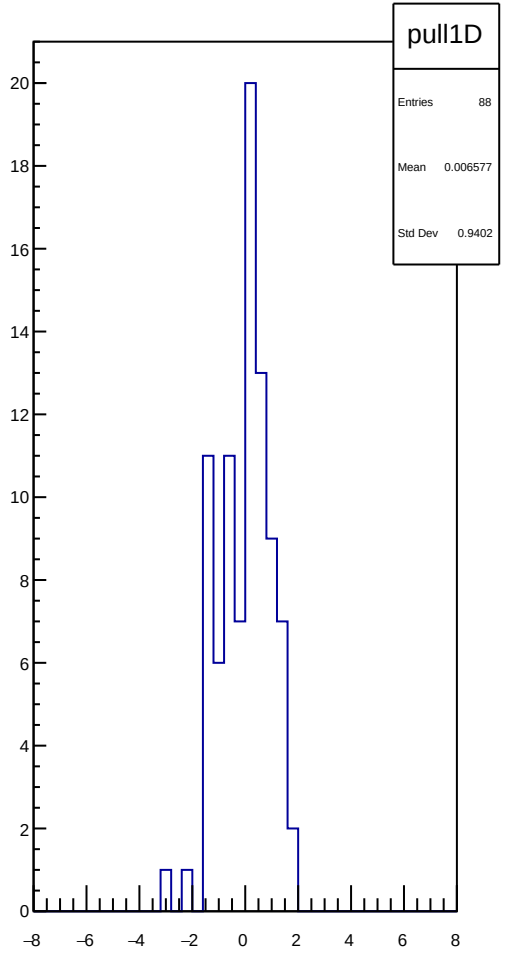

pull1D
Entries 88
Mean 0.006577
Std Dev 0.9402
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

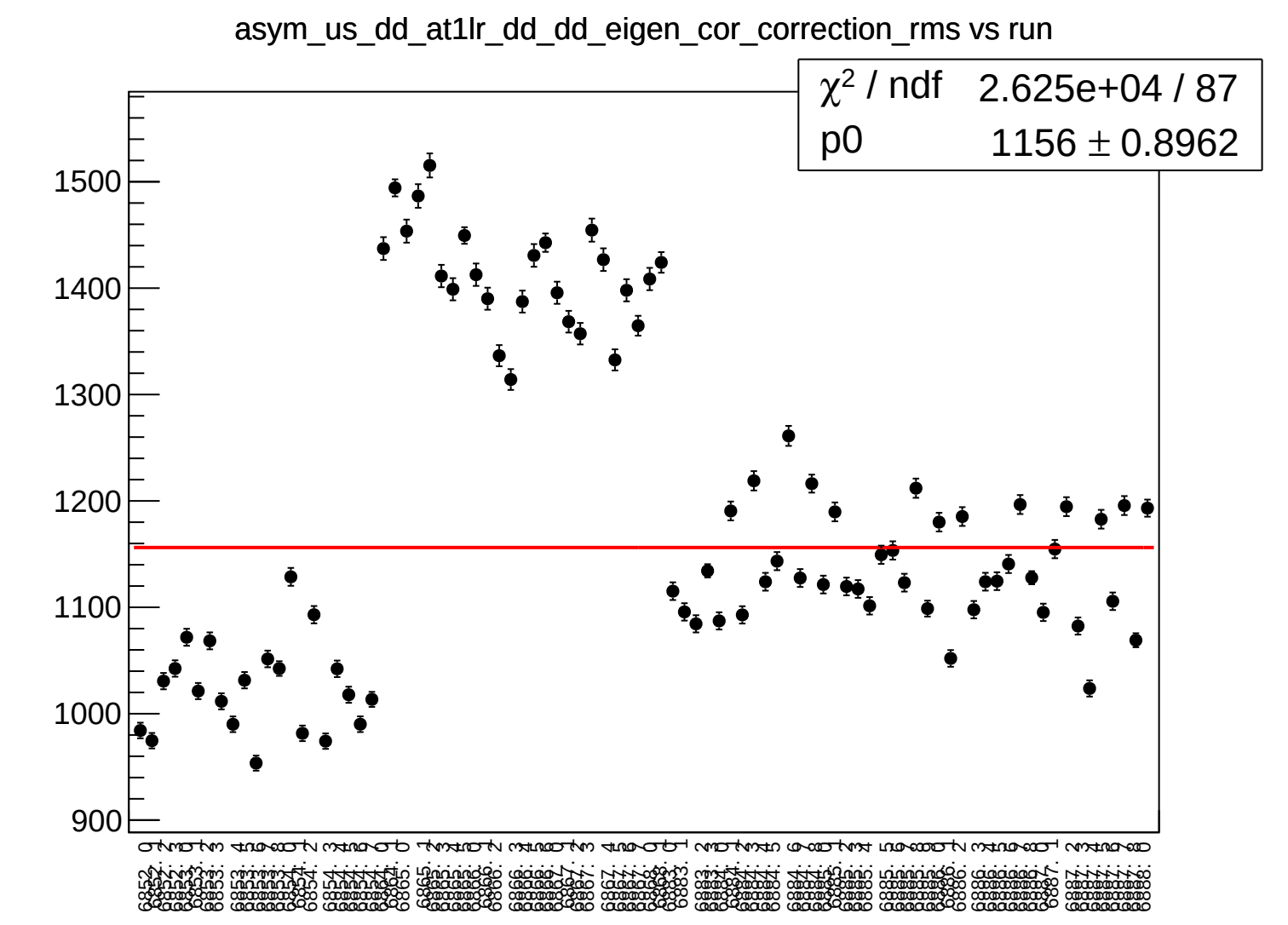

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.625e+04 / 87
p0 1156 ± 0.8962
1500
1400
1300
1200
1100
1000
900

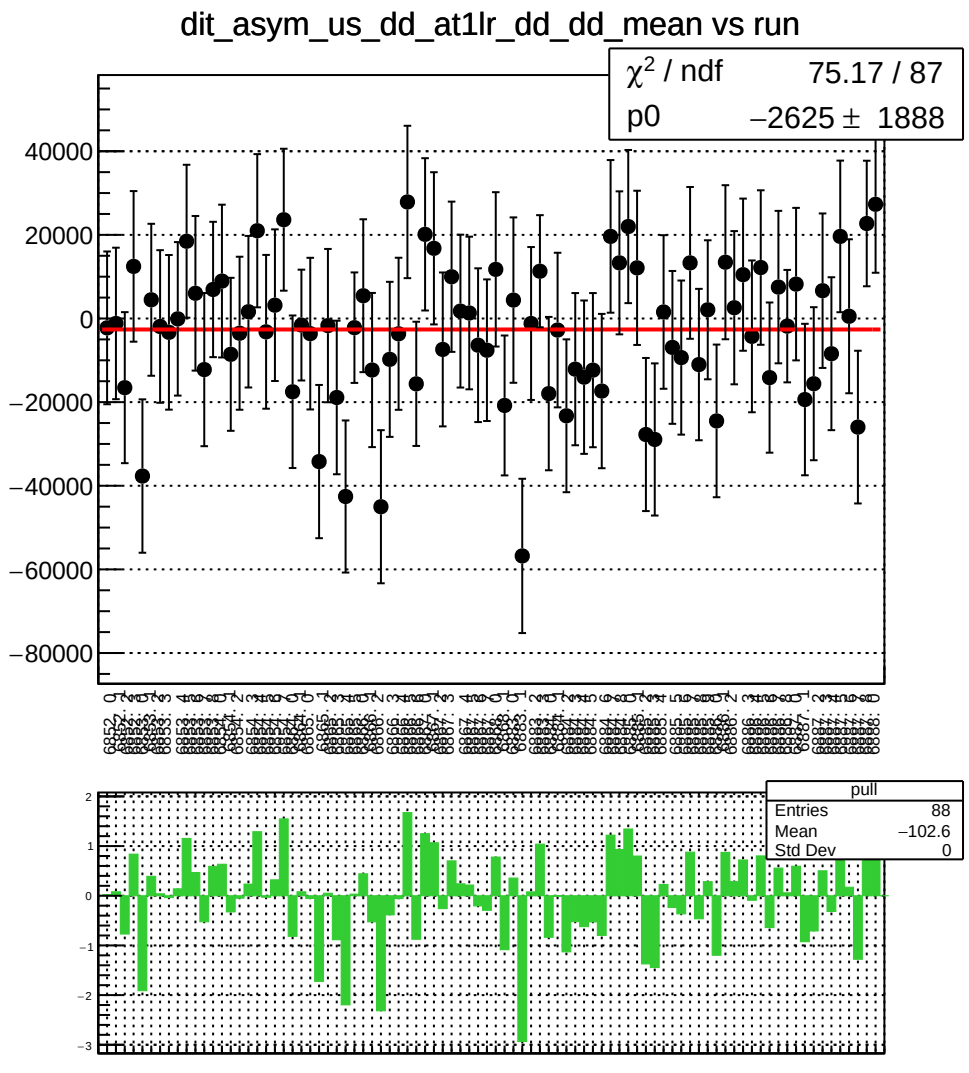

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 74.66 / 87
p0 −2627 ± 1887
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −89.27
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01143
Std Dev 0.921
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

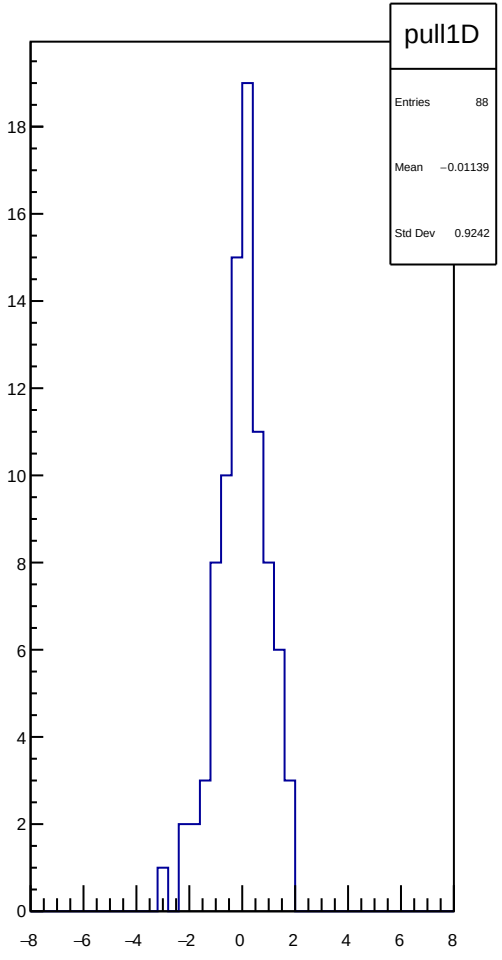

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 172.1 / 87
p0 1735 ± 1.334
1900
1850
1800
1750
1700

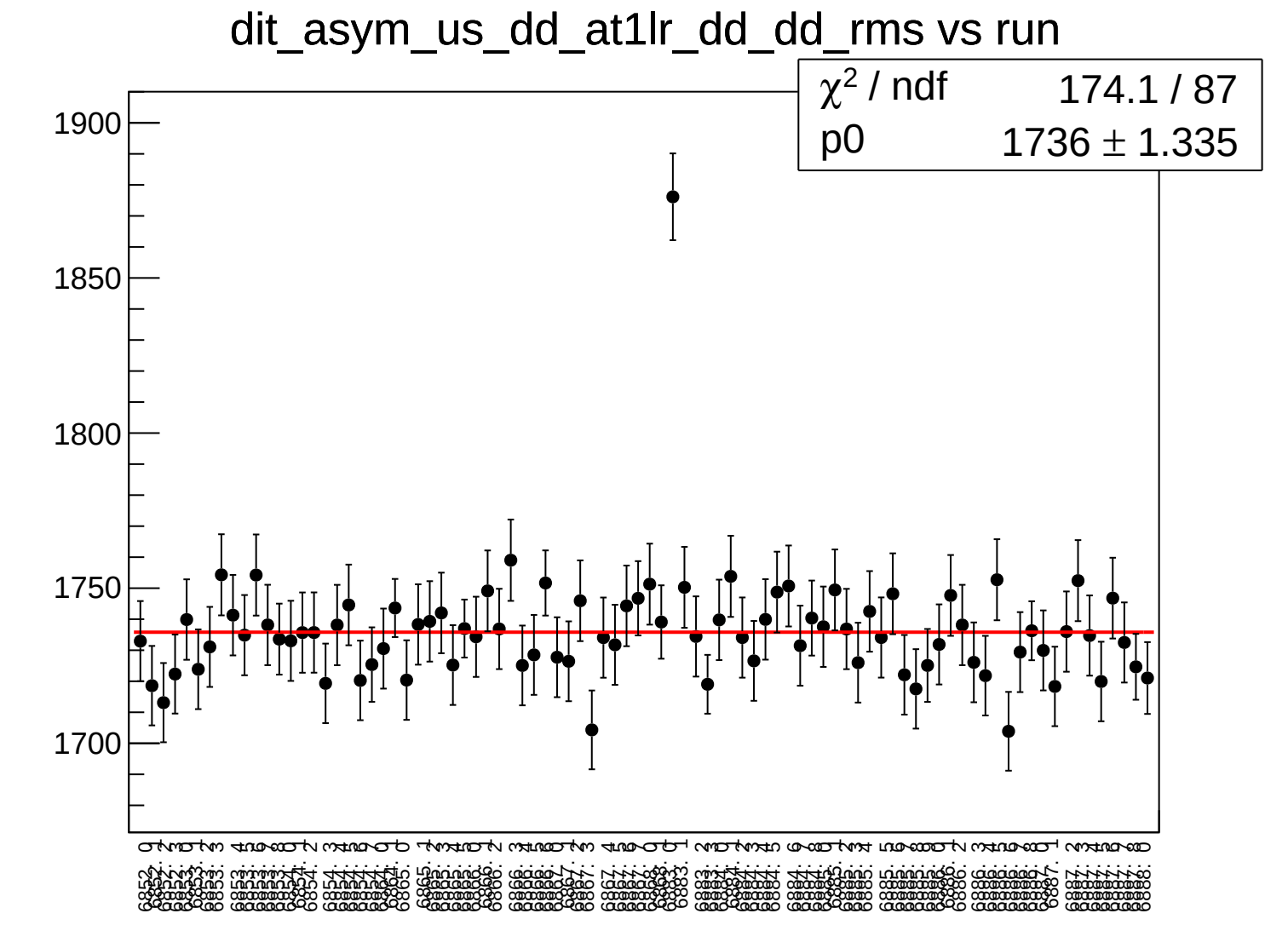

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.8 / 87
p0 −3108 ± 1267
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 537
Std Dev 0
2
1
0
−1
−2
−3

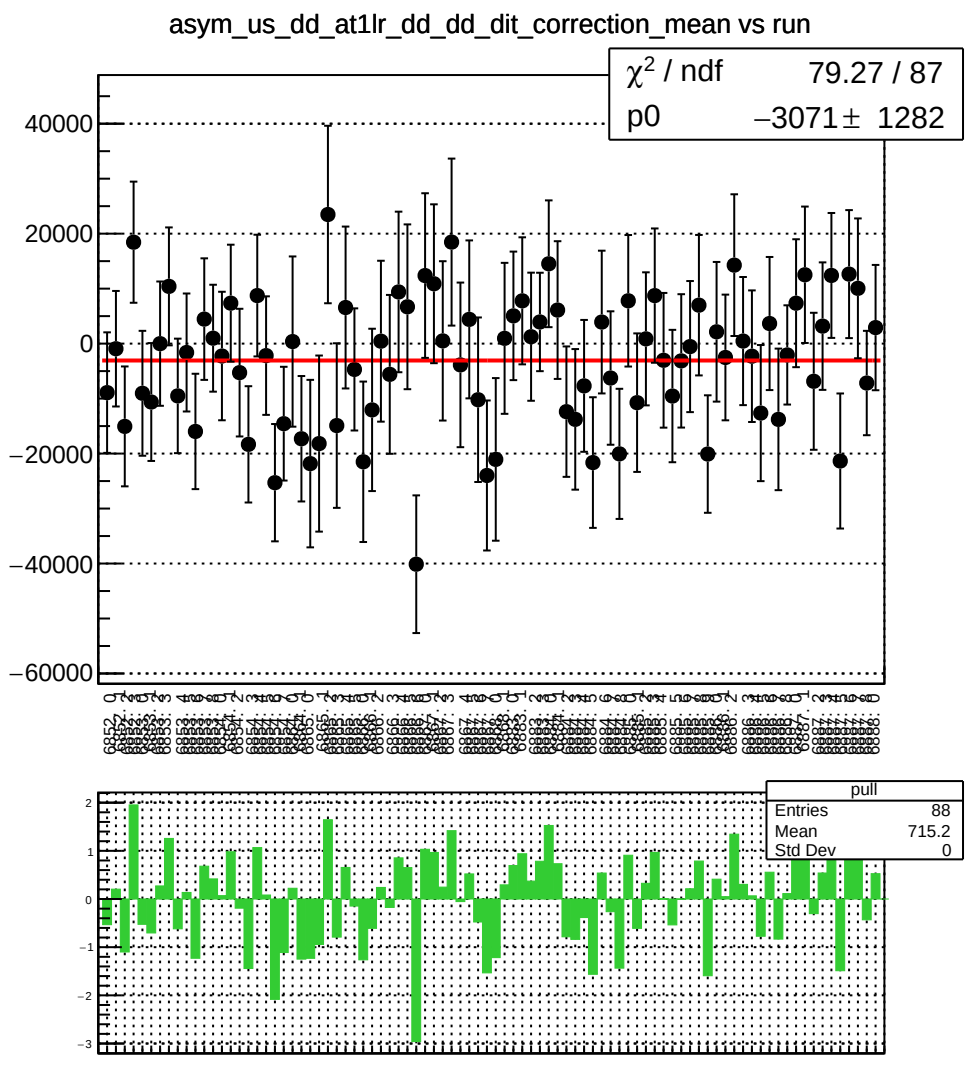

pull1D
Entries 88
Mean 0.006577
Std Dev 0.9402
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

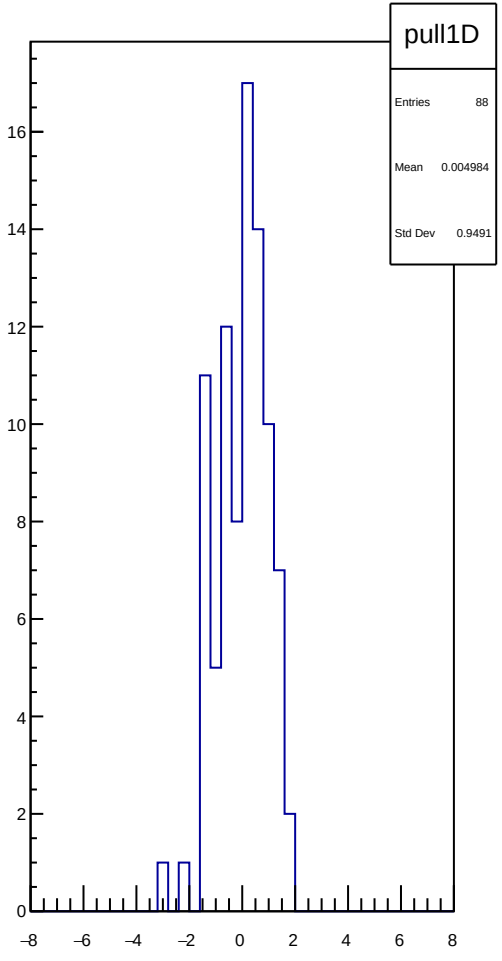

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.625e+04 / 87
p0 1156 ± 0.8962
1500
1400
1300
1200
1100
1000
900

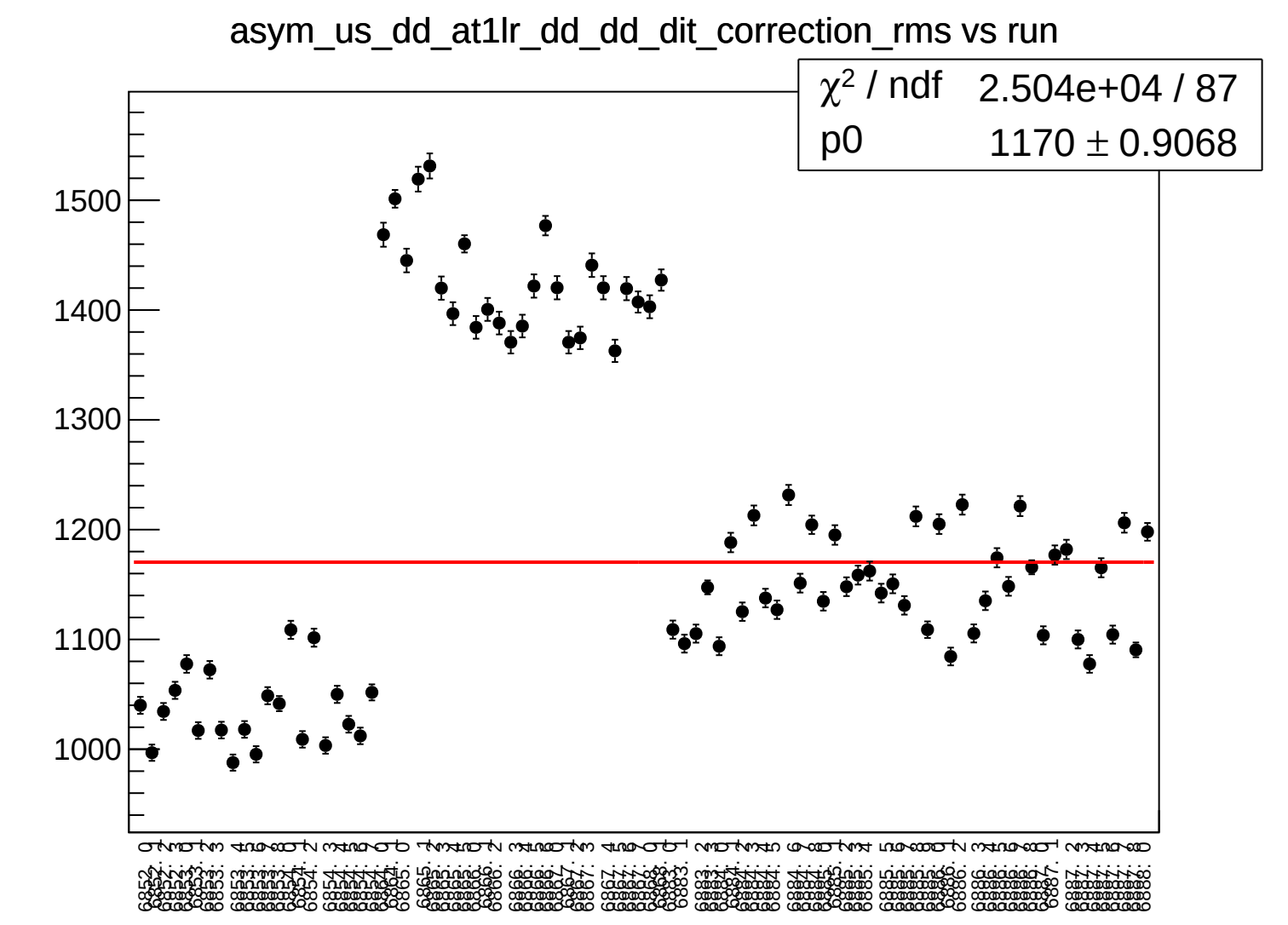

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 75.17 / 87
p0 −2625 ± 1888
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −102.6
Std Dev 0
2
1
0
−1
−2
−3

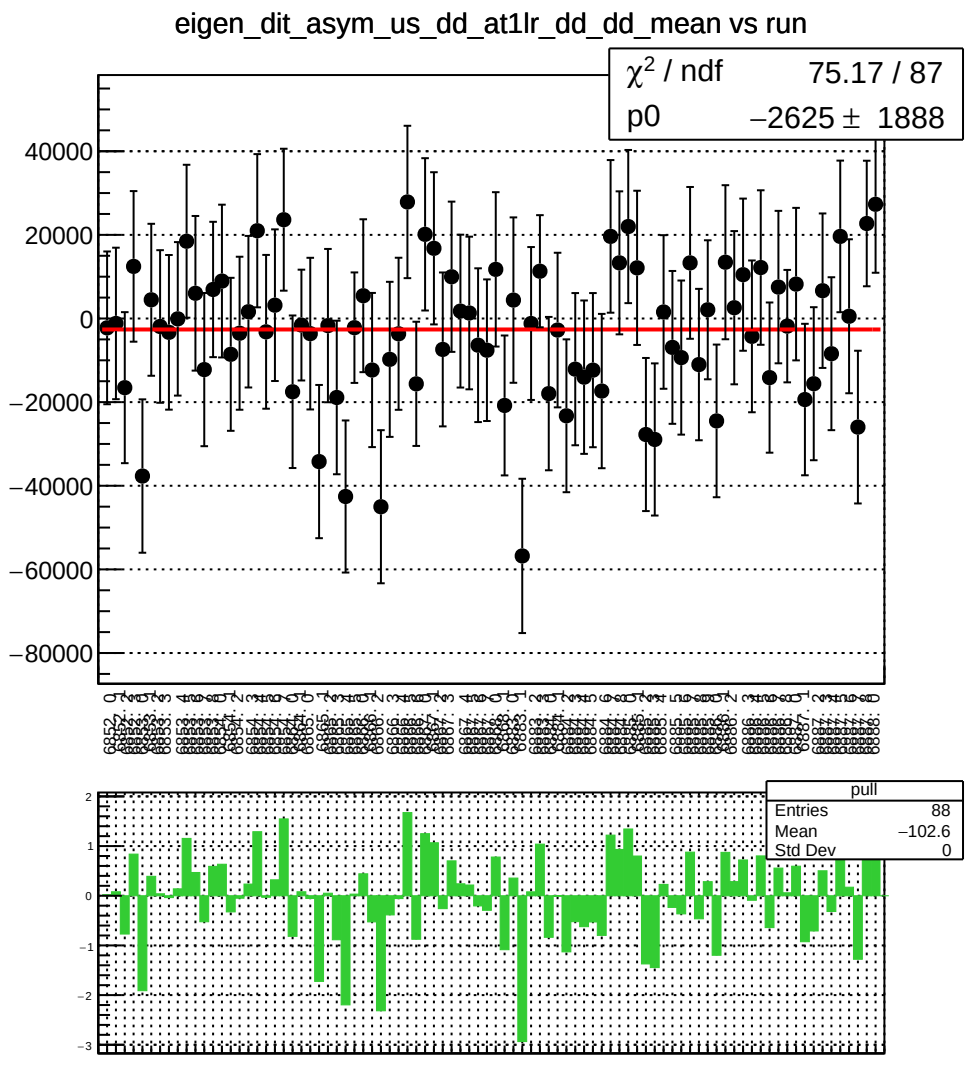

pull1D
Entries 88
Mean −0.01139
Std Dev 0.9242
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

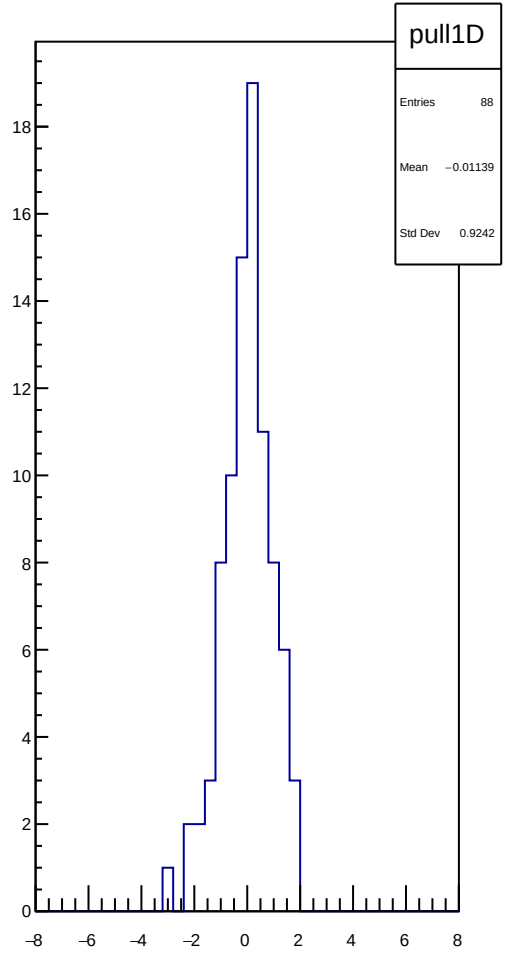

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 174.1 / 87
p0 1736 ± 1.335
1900
1850
1800
1750
1700

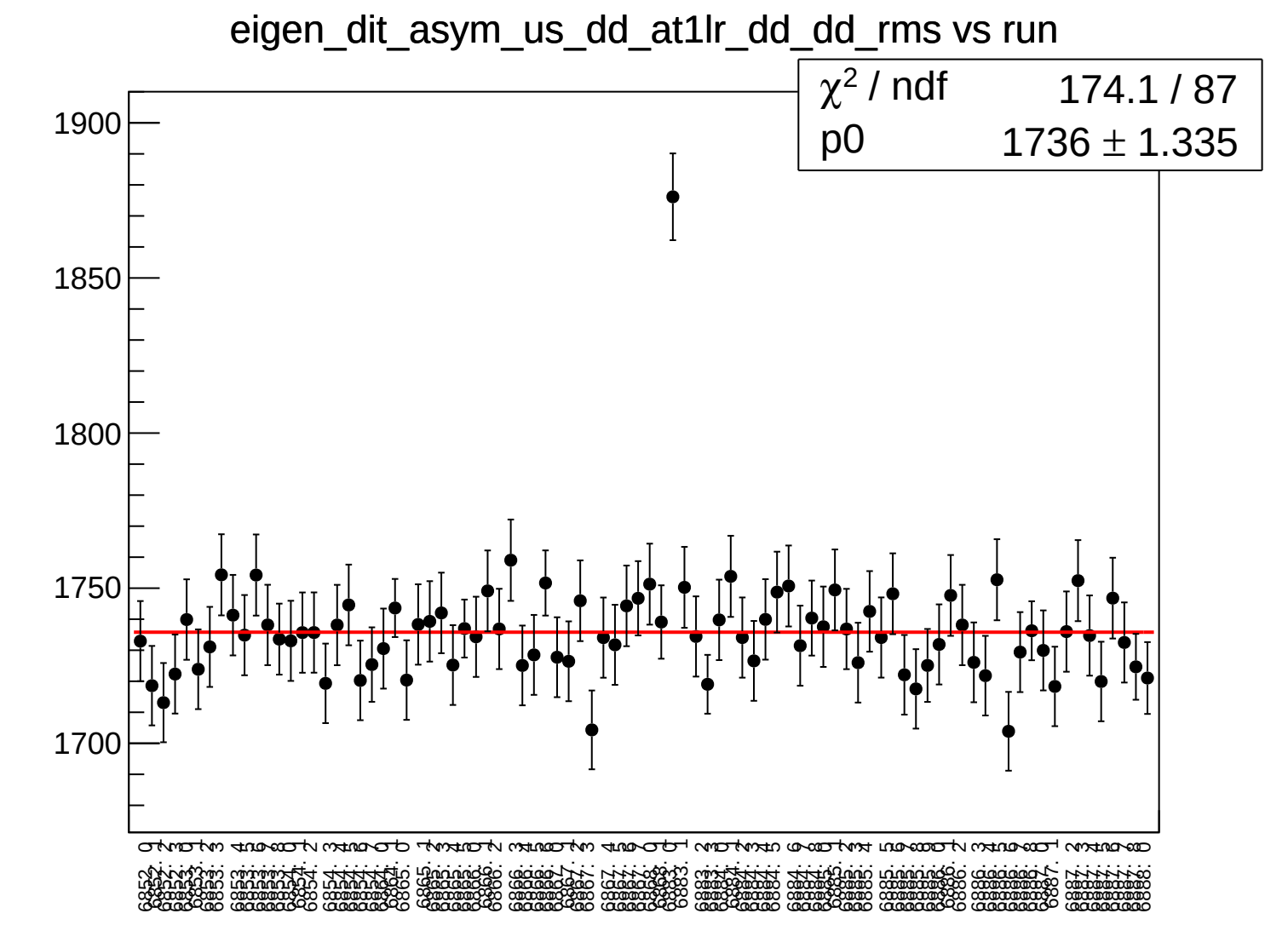

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 79.27 / 87
p0 −3071 ± 1282
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 715.2
Std Dev 0
2
1
0
−1
−2
−3

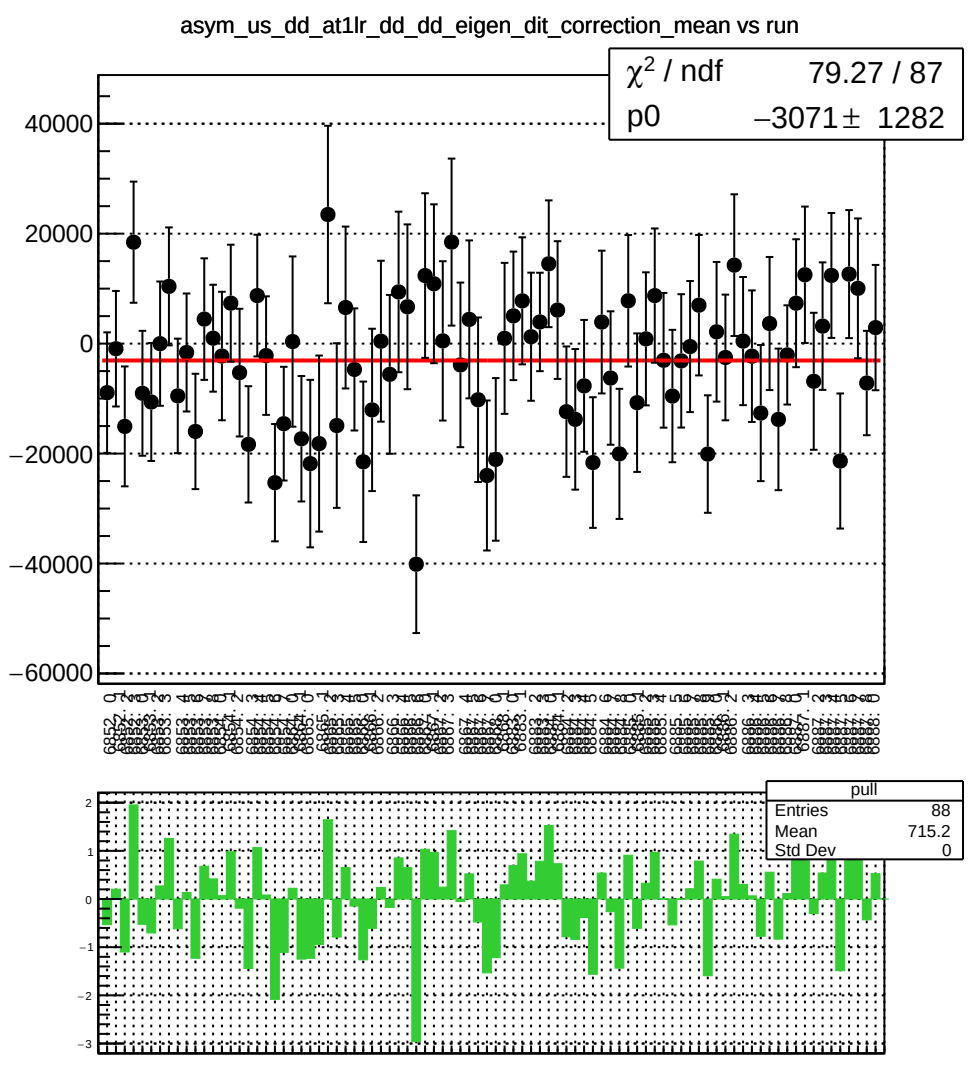

pull1D
Entries 88
Mean 0.004984
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

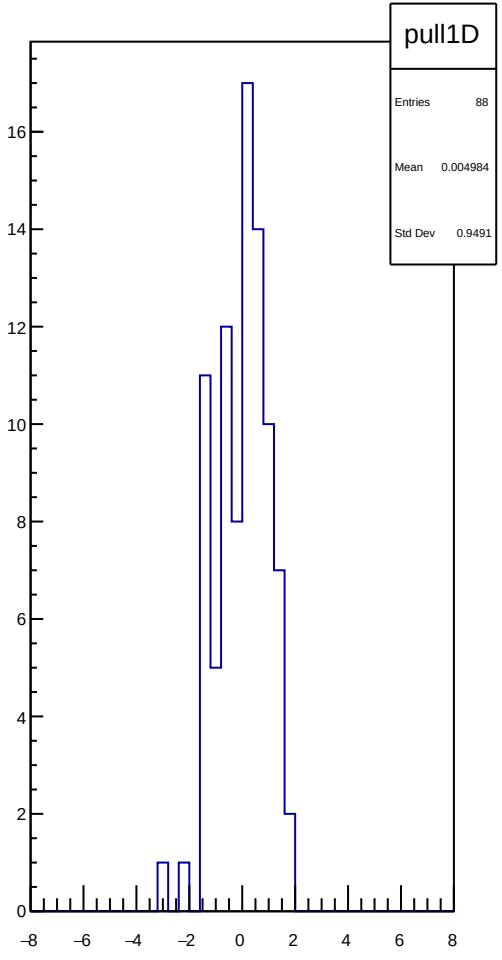

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.504e+04 / 87
p0 1170 ± 0.9068
1500
1400
1300
1200
1100
1000

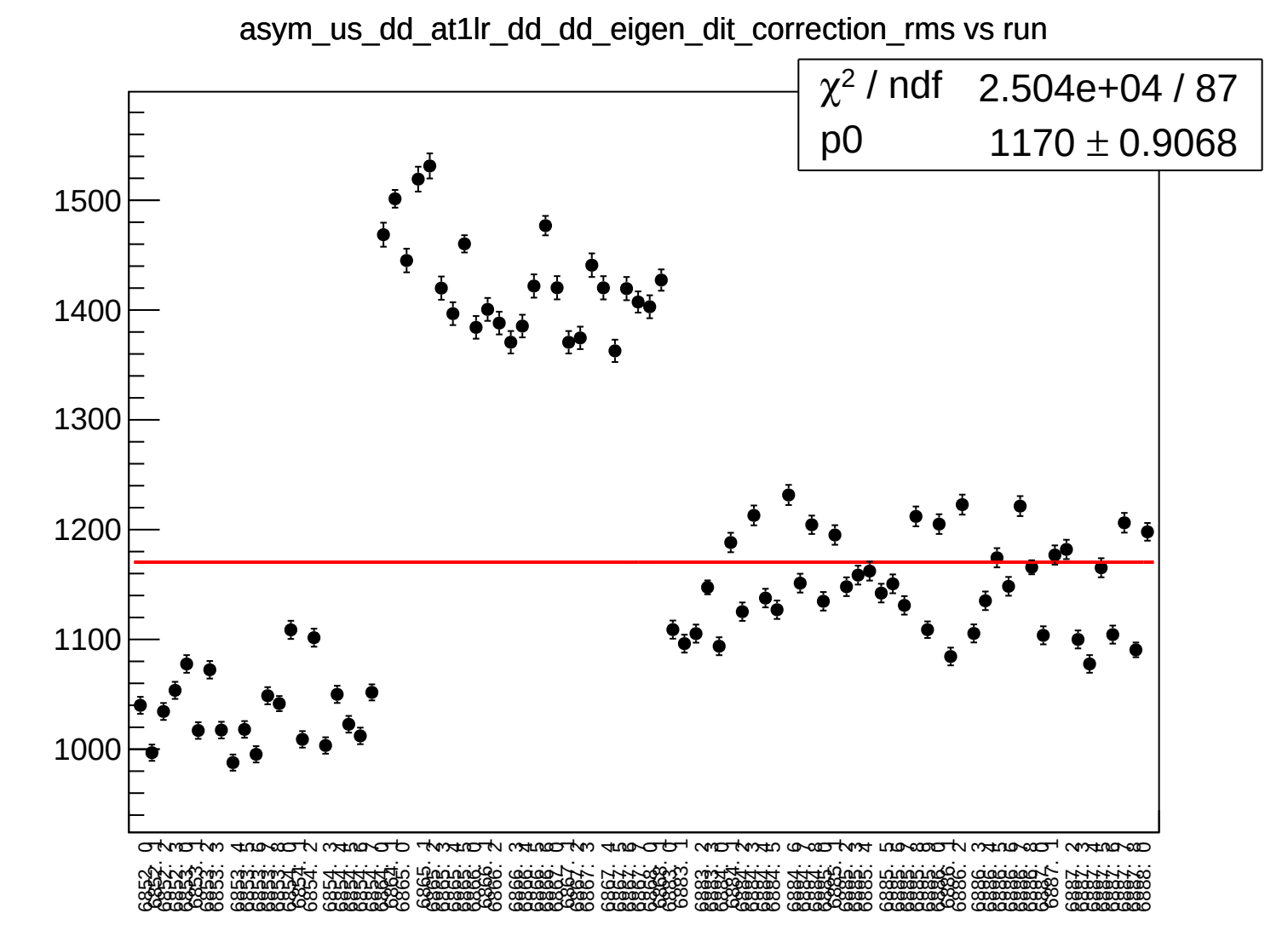

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 75.17 / 87
p0 −2625 ± 1888
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean −102.6
Std Dev 0
2
1
0
−1
−2
−3

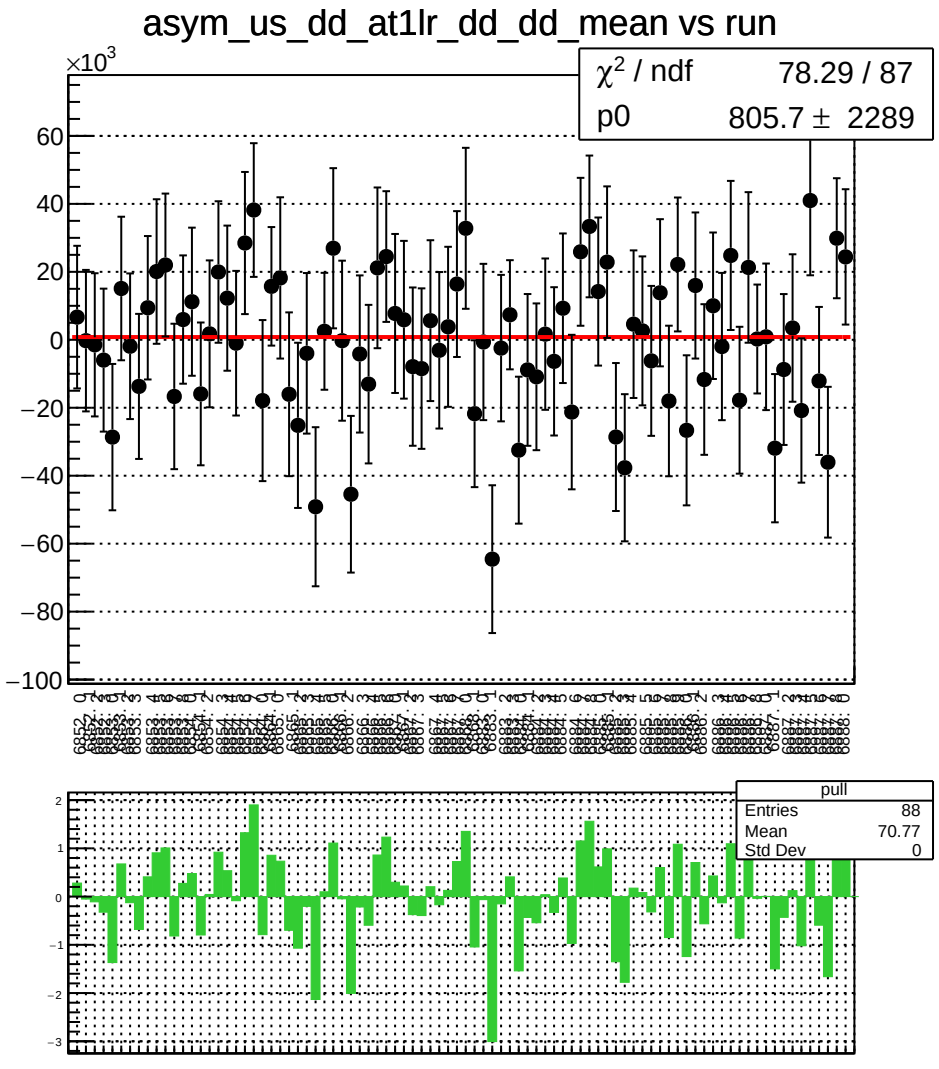

pull1D
Entries 88
Mean −0.01139
Std Dev 0.9242
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

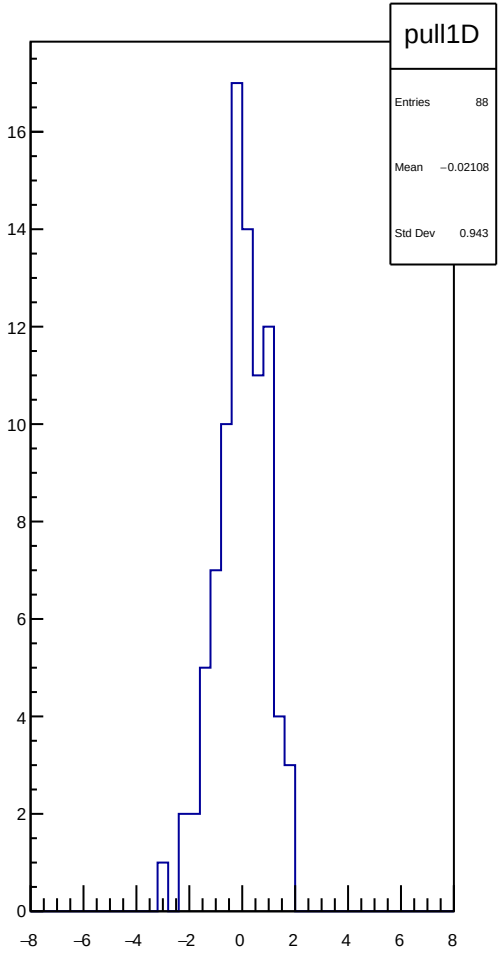

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 174.1 / 87
p0 1736 ± 1.335
1900
1850
1800
1750
1700

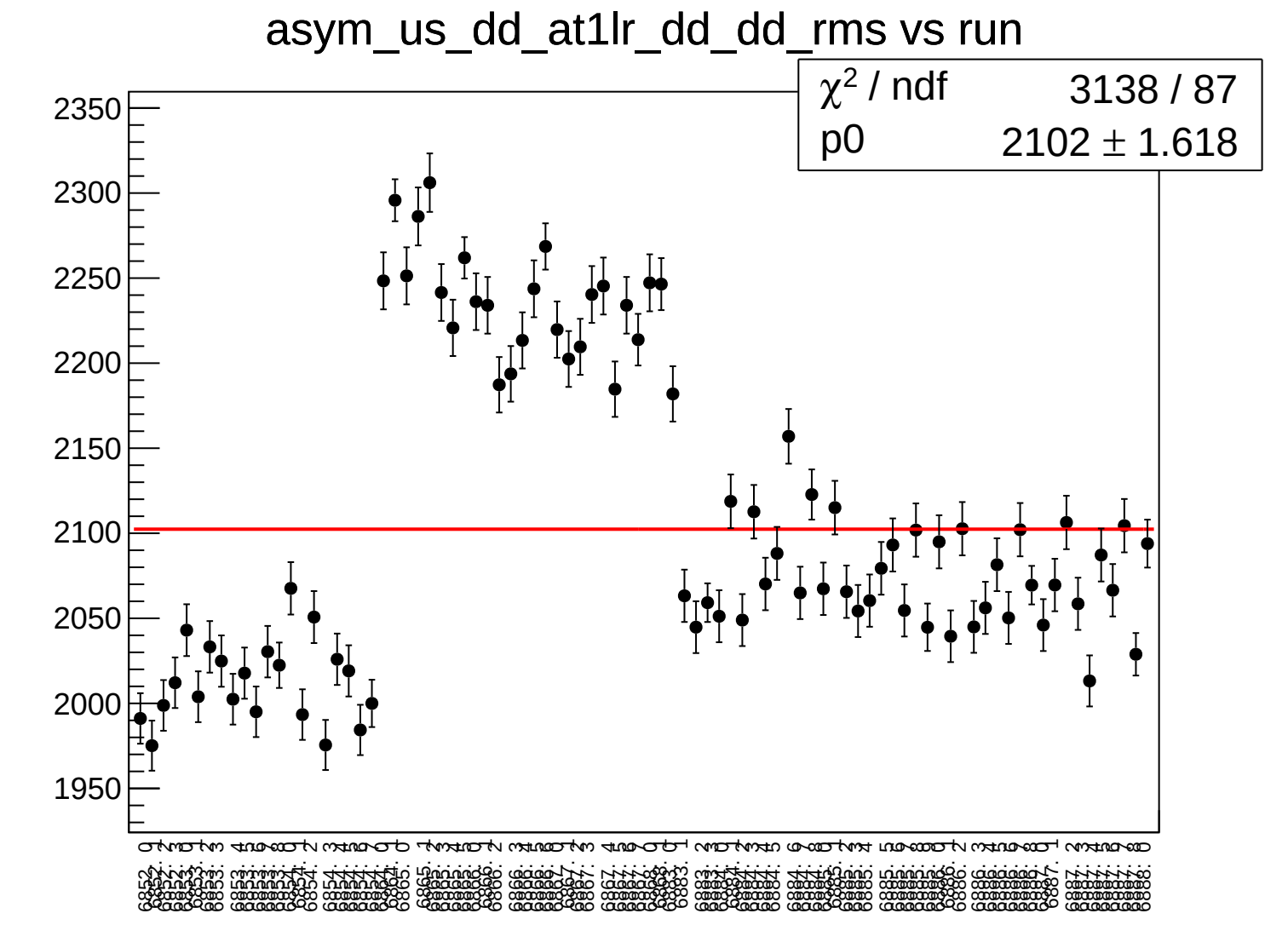

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.27 / 87
p0 −3071 ± 1282
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 715.2
Std Dev 0
2
1
0
−1
−2
−3

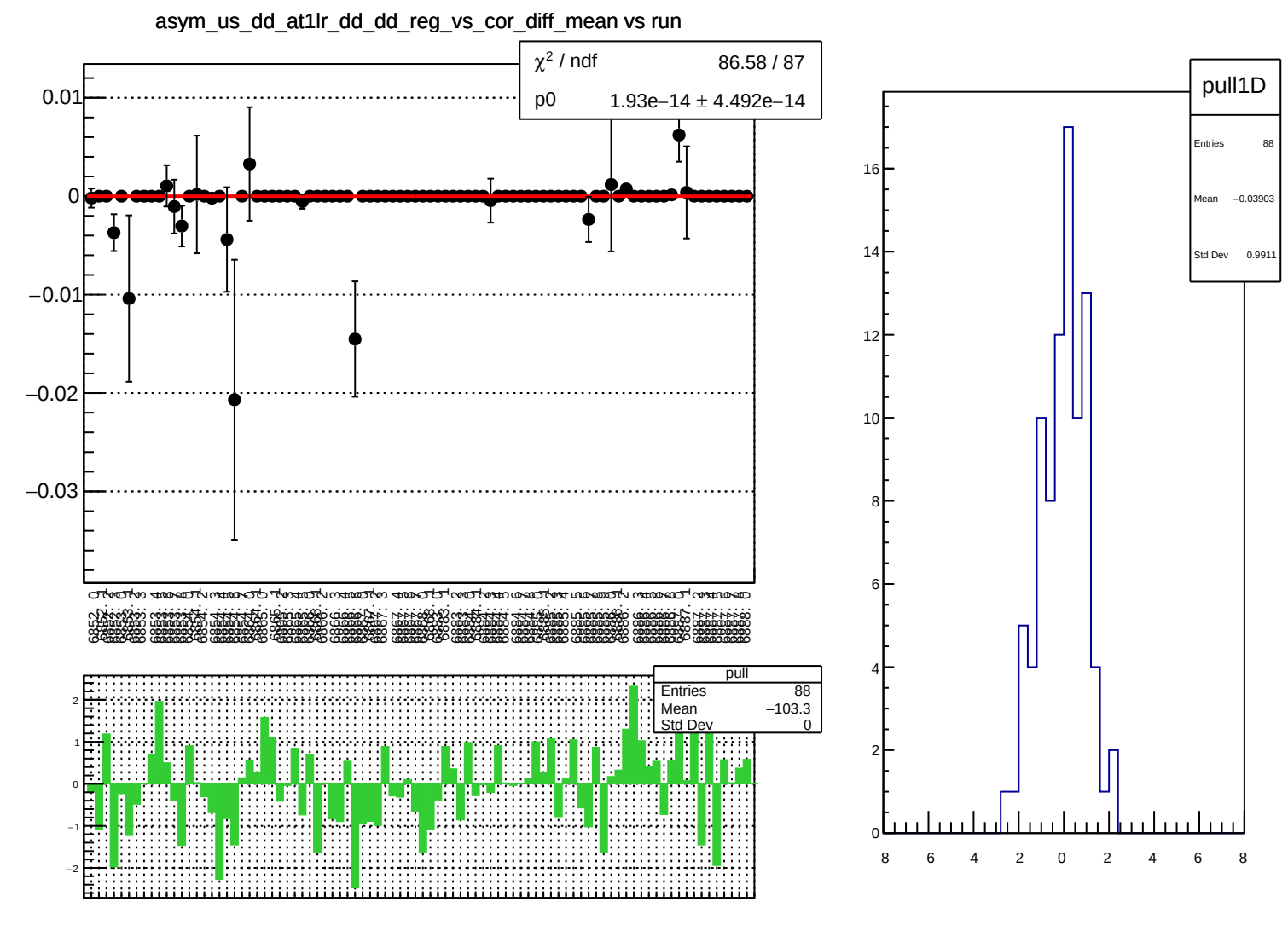

pull1D
Entries 88
Mean 0.004984
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

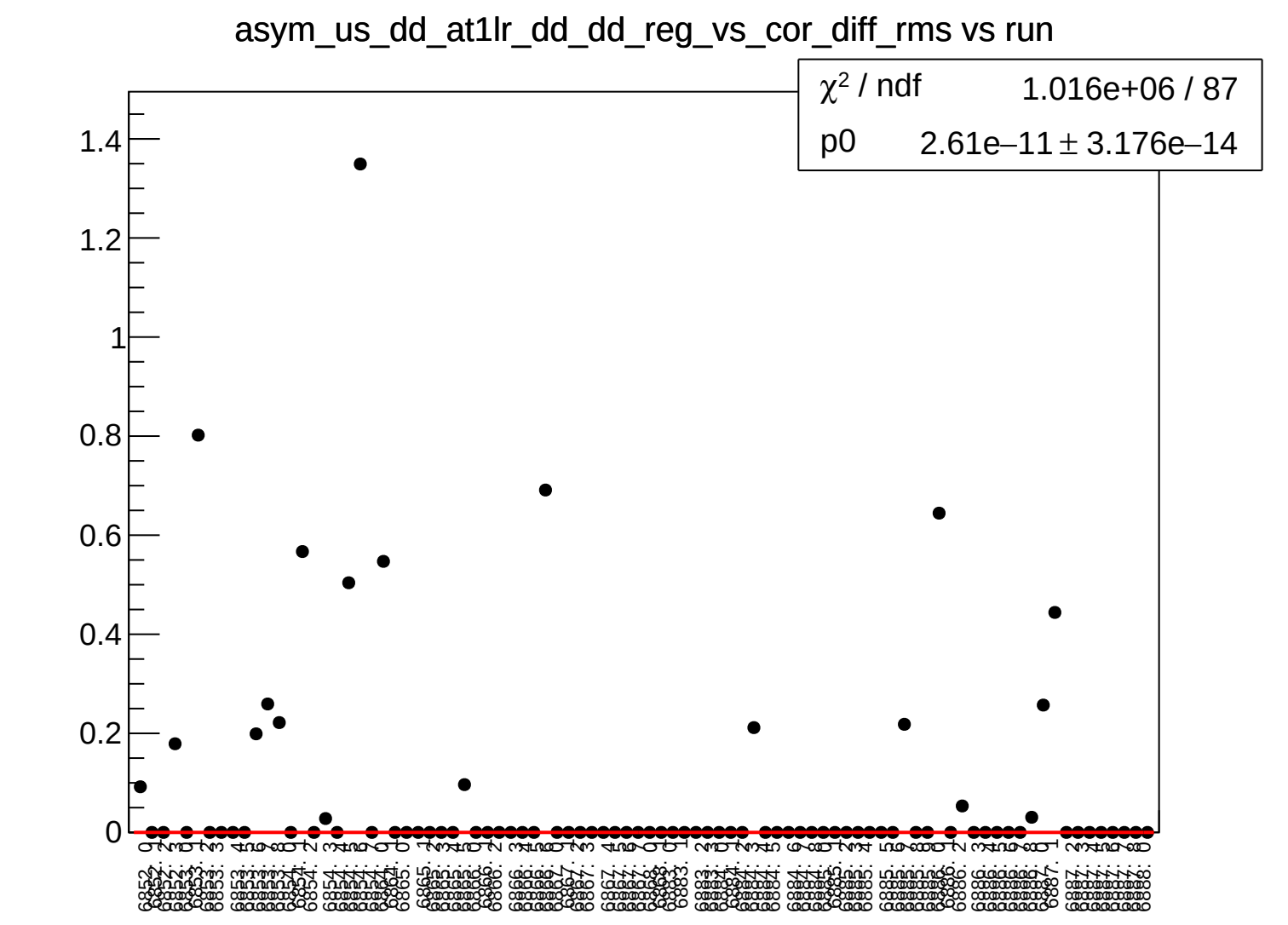

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.504e+04 / 87
p0 1170 ± 0.9068
1500
1400
1300
1200
1100
1000

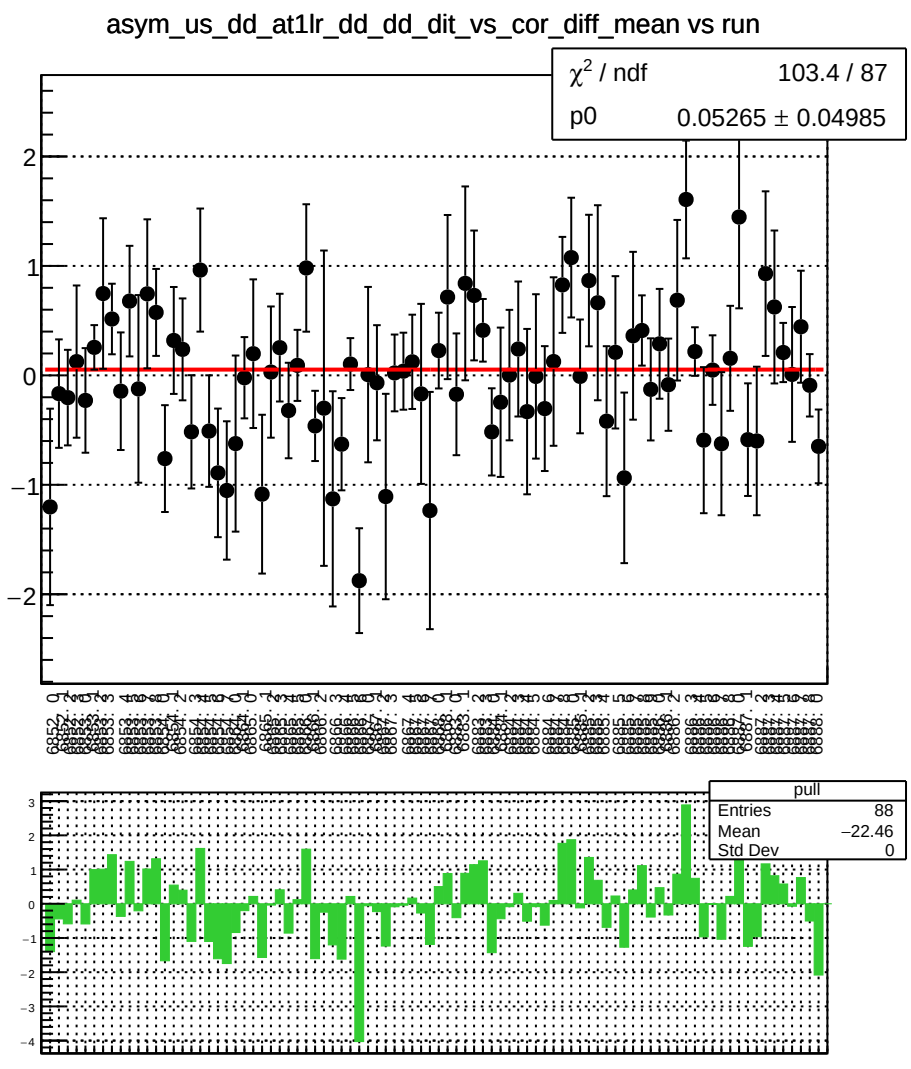

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 78.29 / 87
p0 805.7 ± 2289
pull
Entries 88
Mean 70.77
Std Dev 0

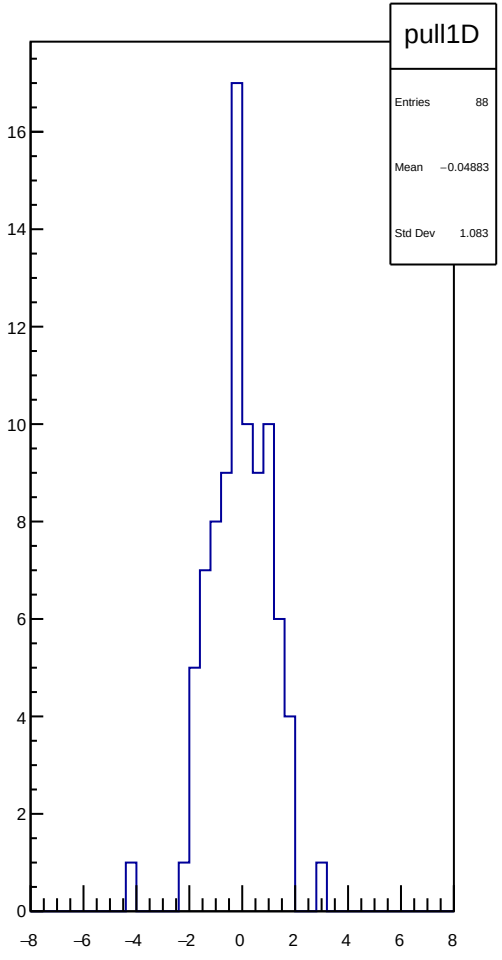

pull1D
Entries 88
Mean −0.02108
Std Dev 0.943

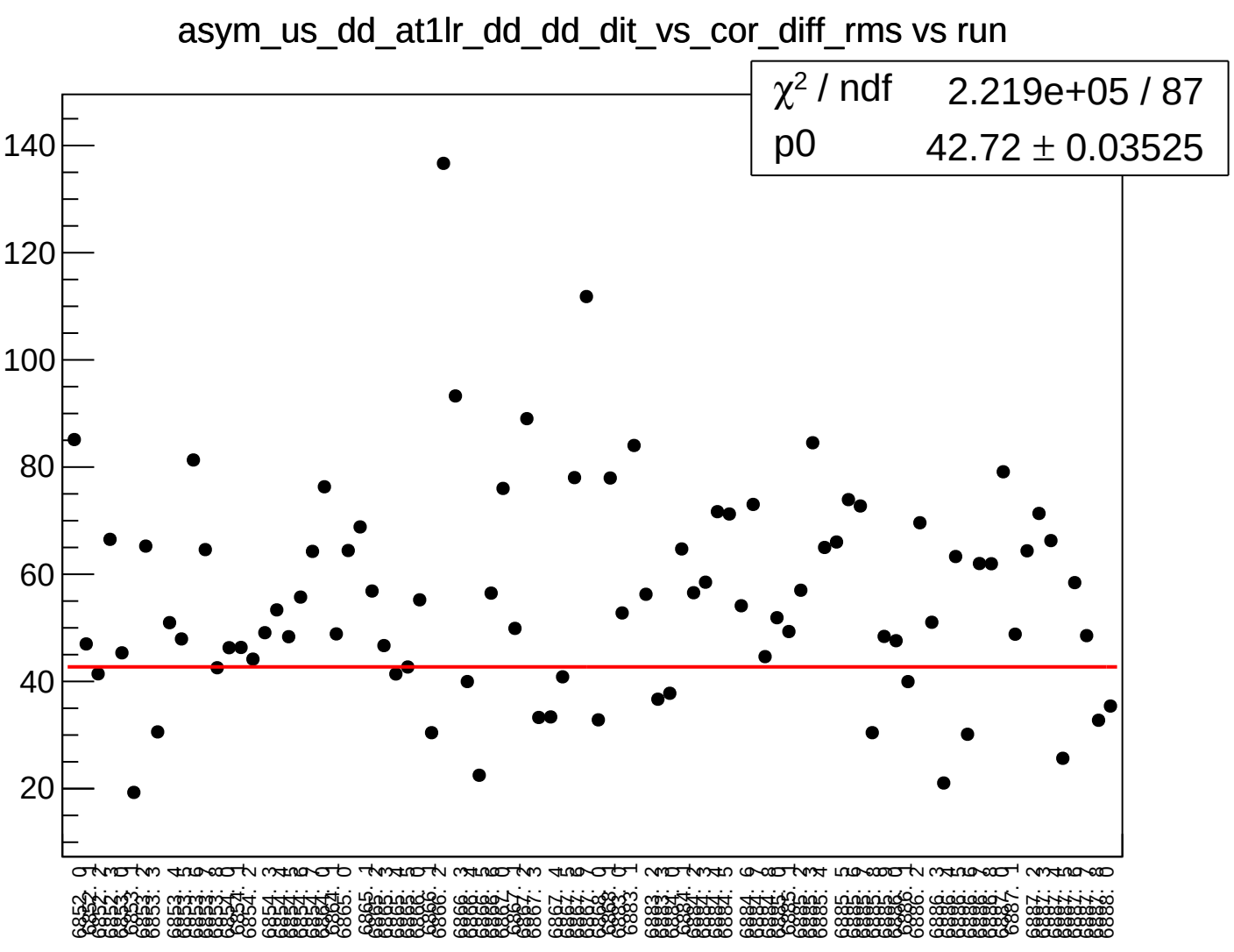

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 3138 / 87
p0 2102 ± 1.618
2350
2300
2250
2200
2150
2100
2050
2000
1950

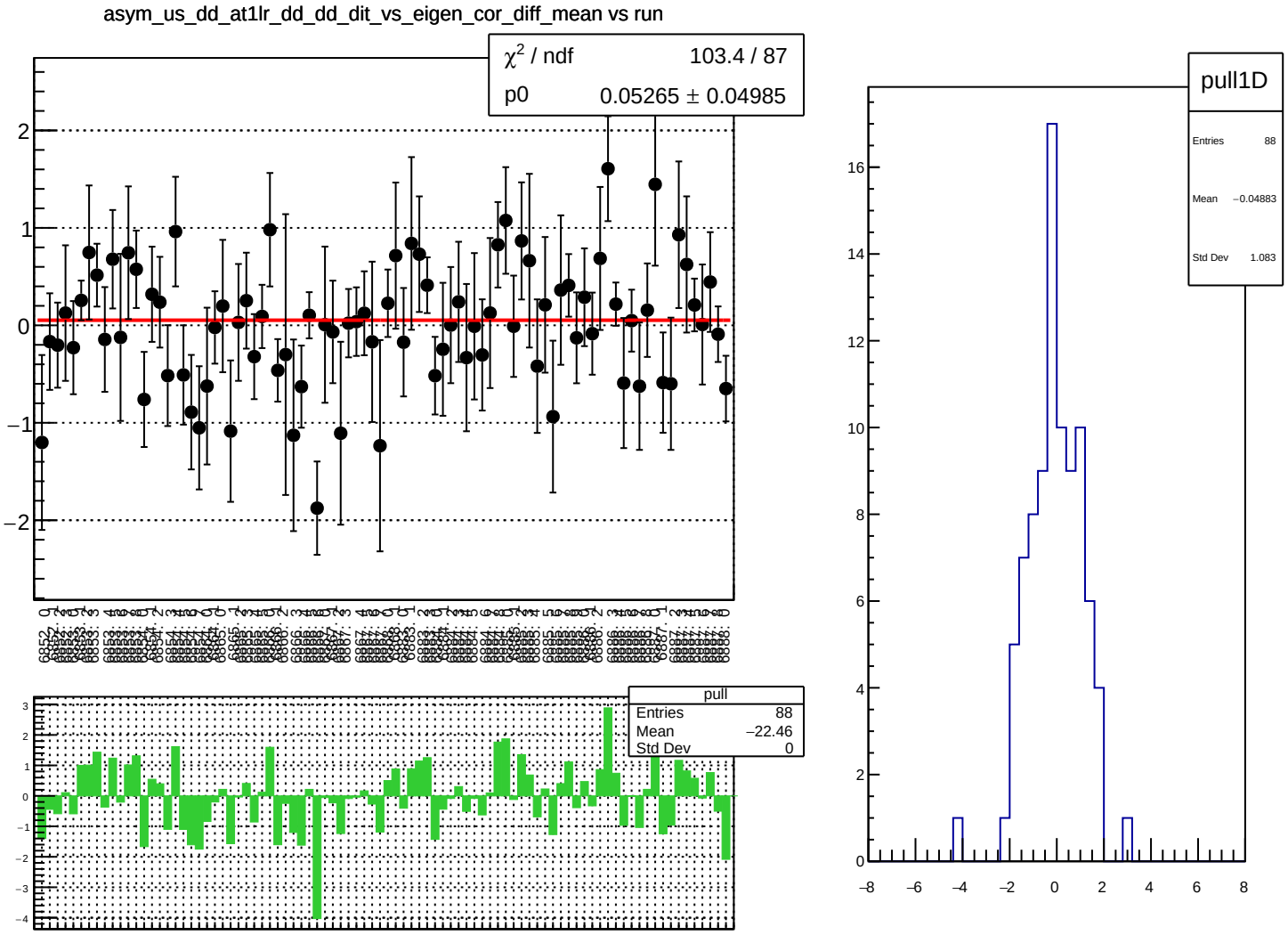

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.58 / 87
p0 1.93e−14 ± 4.492e−14
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean −103.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.03903
Std Dev 0.9911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

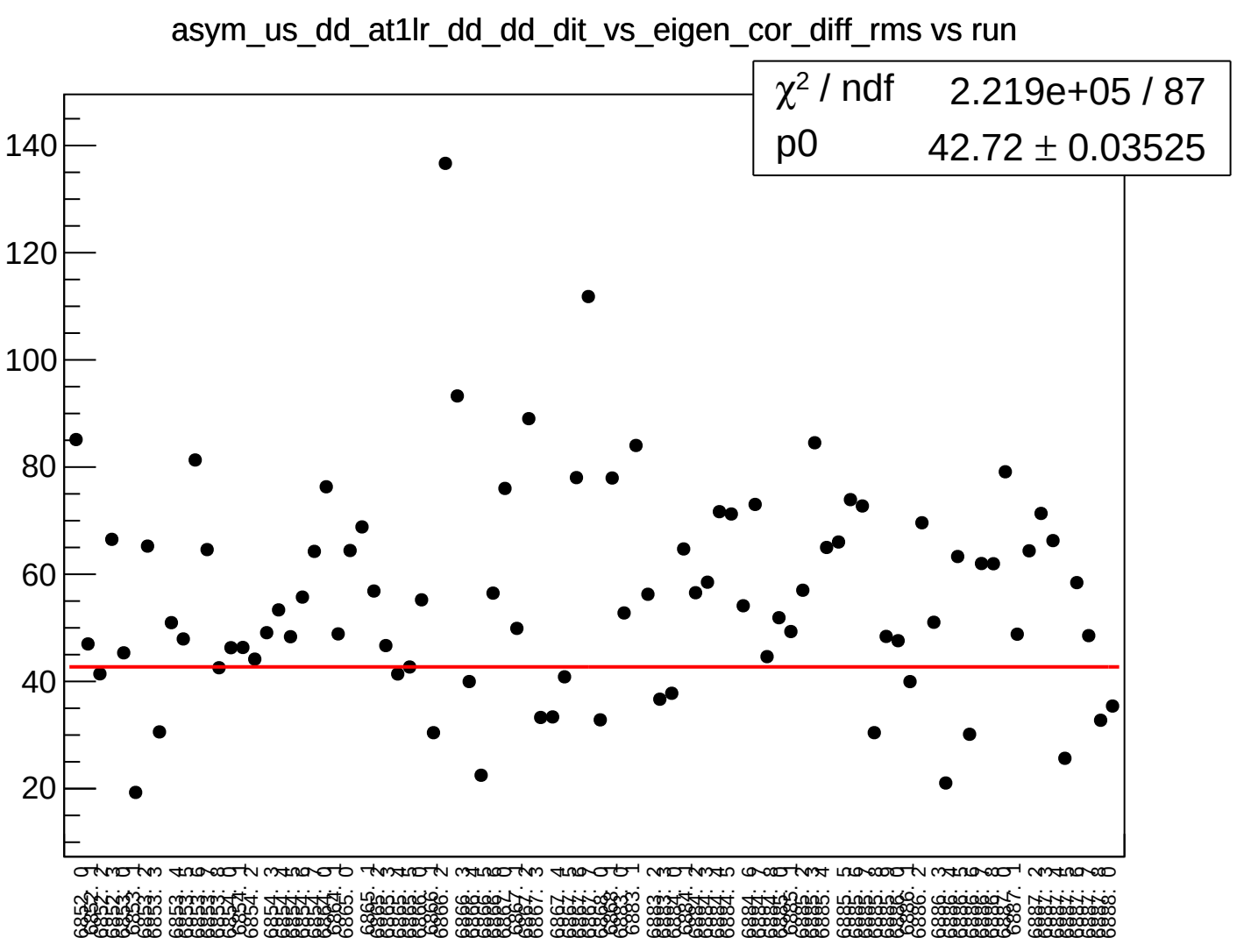

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.016e+06 / 87
p0 2.61e−11 ± 3.176e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

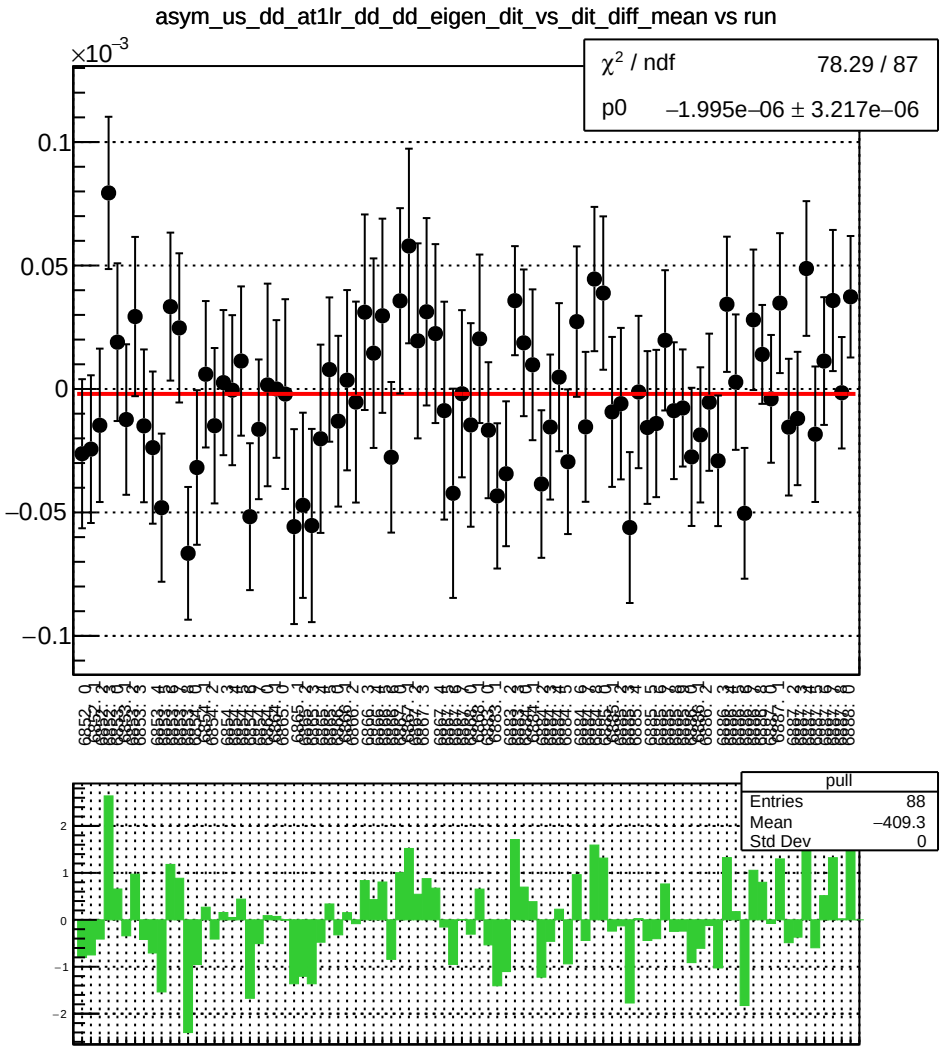

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 87
p0 0.05265 ± 0.04985
pull
Entries 88
Mean −22.46
Std Dev 0

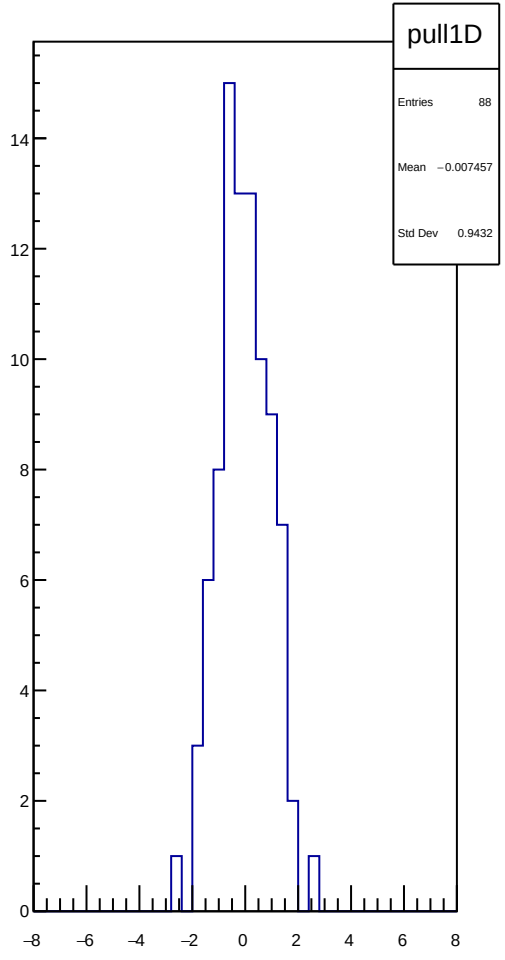

pull1D
Entries 88
Mean −0.04883
Std Dev 1.083

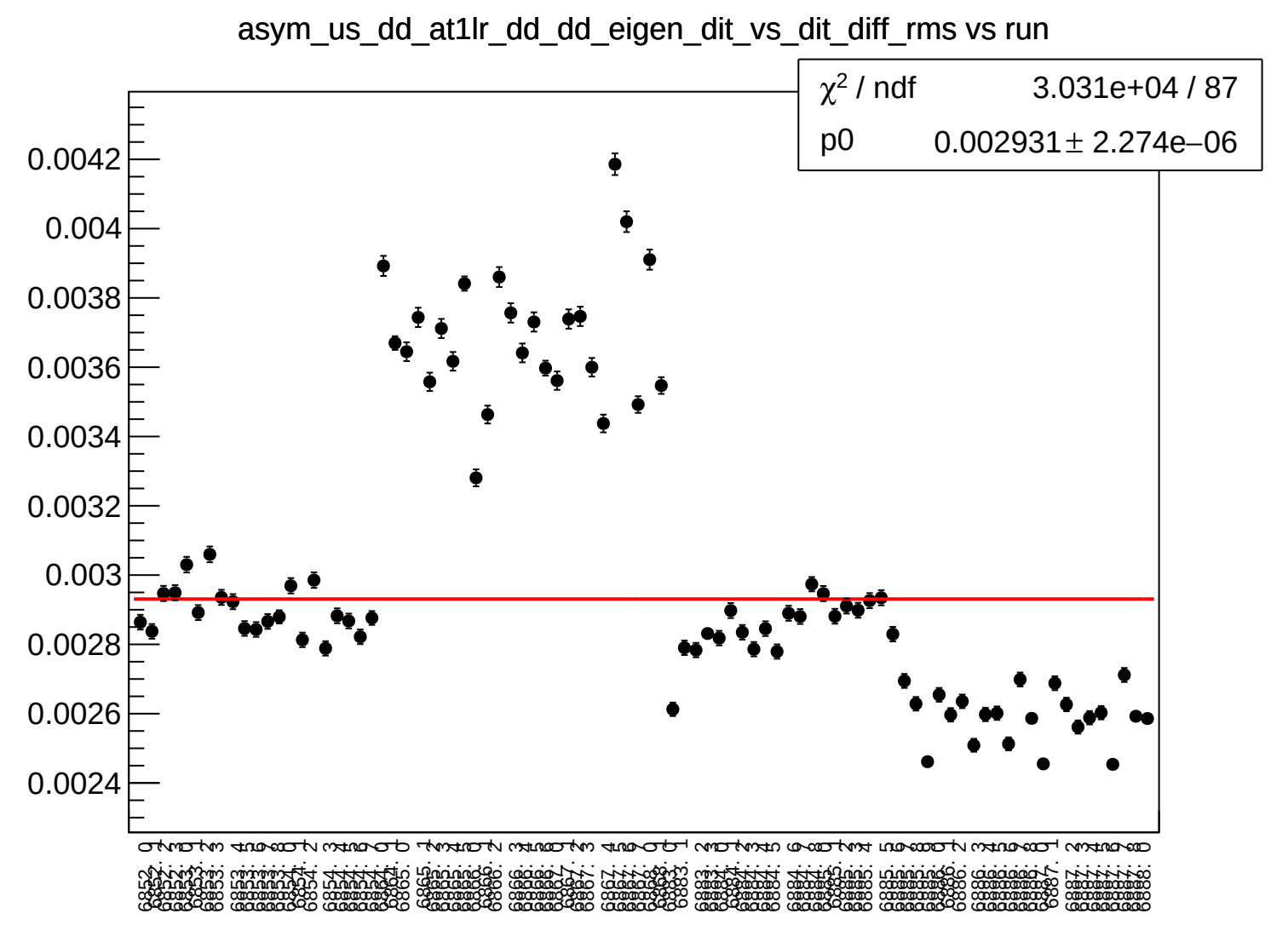

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.219e+05 / 87
p0 42.72 ± 0.03525
140
120
100
80
60
40
20

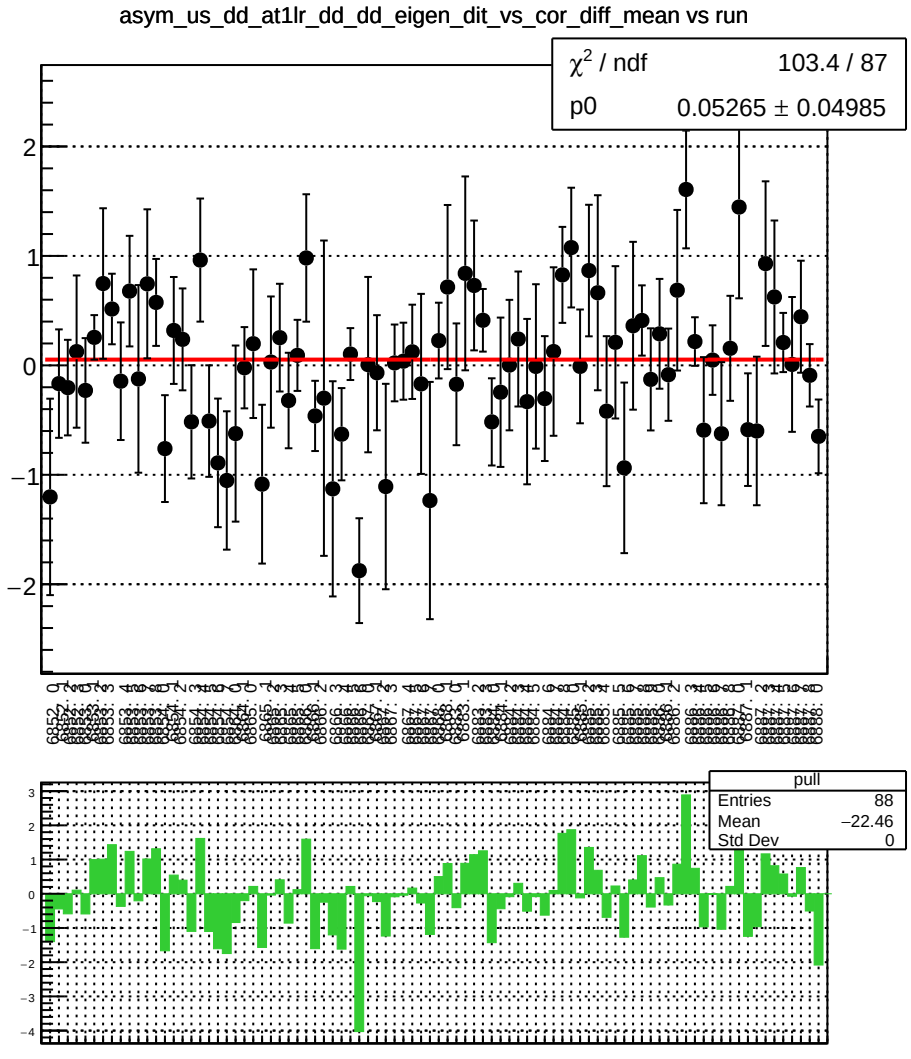

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.4 / 87
p0 0.05265 ± 0.04985
pull
Entries 88
Mean −22.46
Std Dev 0
pull1D
Entries 88
Mean −0.04883
Std Dev 1.083

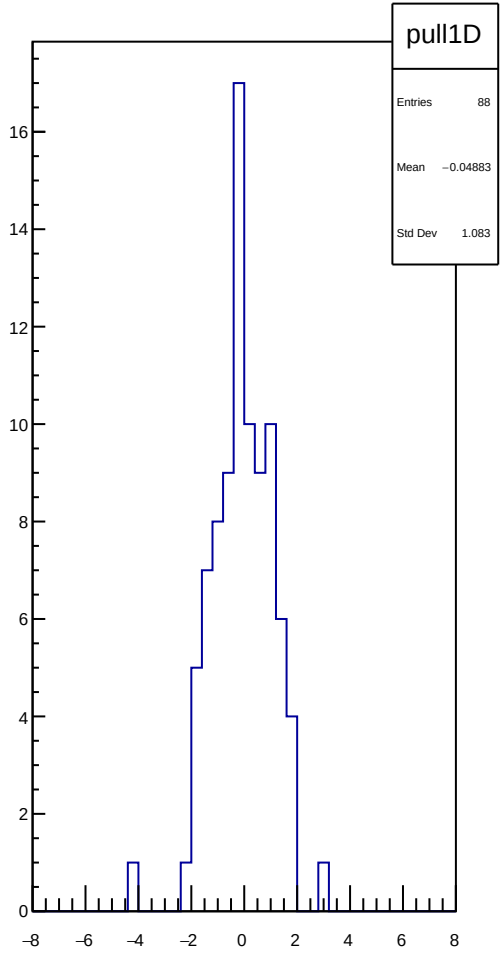

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.219e+05 / 87
p0 42.72 ± 0.03525
140
120
100
80
60
40
20

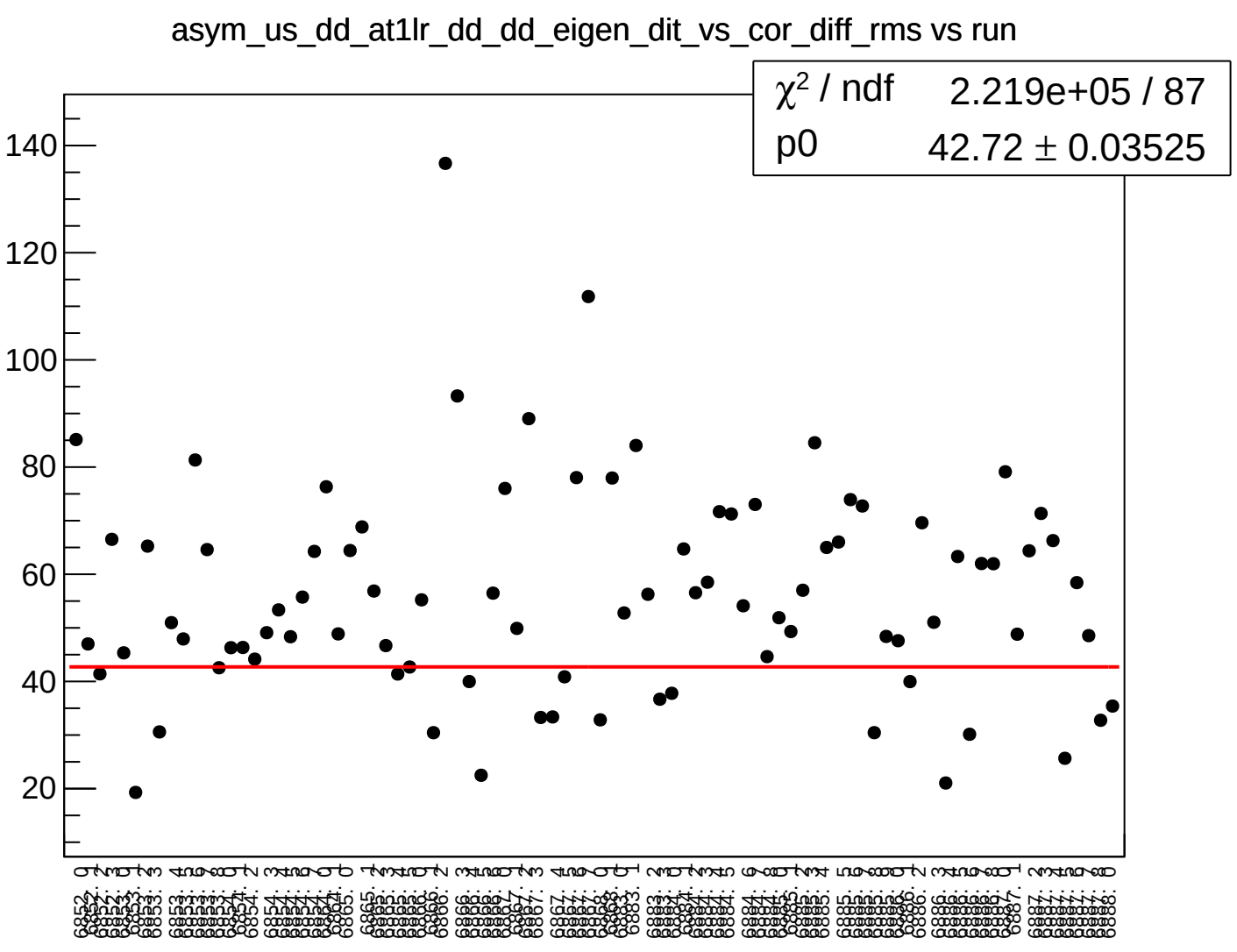

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.29 / 87
p0 −1.995e−06 ± 3.217e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −409.3
Std Dev 0
2
1
0
−1
−2

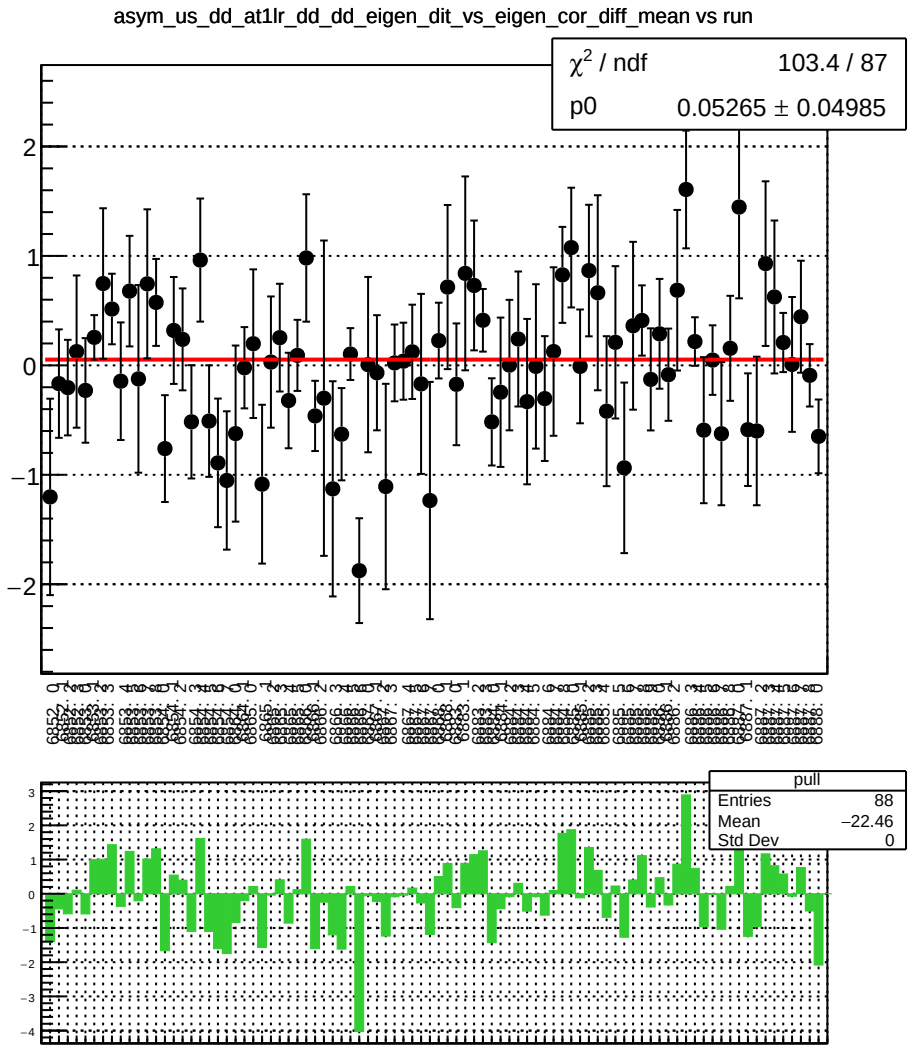

pull1D
Entries 88
Mean −0.007457
Std Dev 0.9432
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

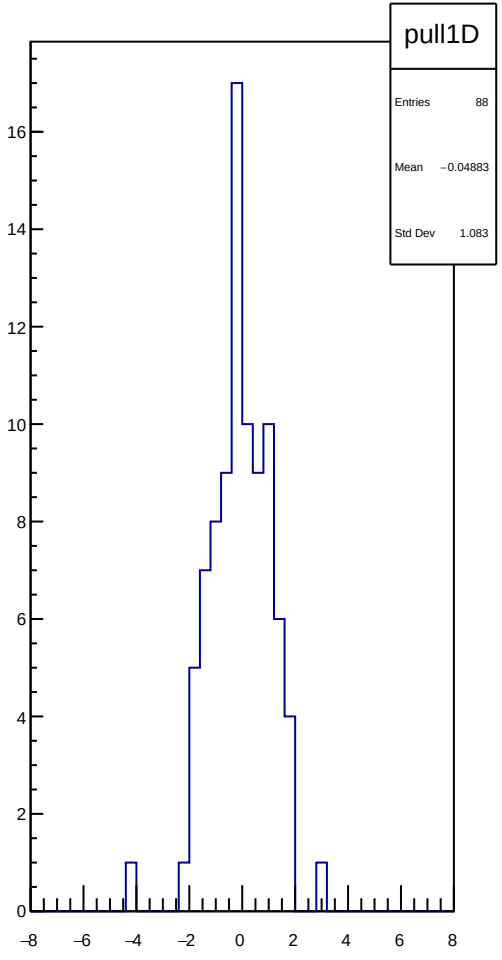

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.031e+04 / 87
p0 0.002931 ± 2.274e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

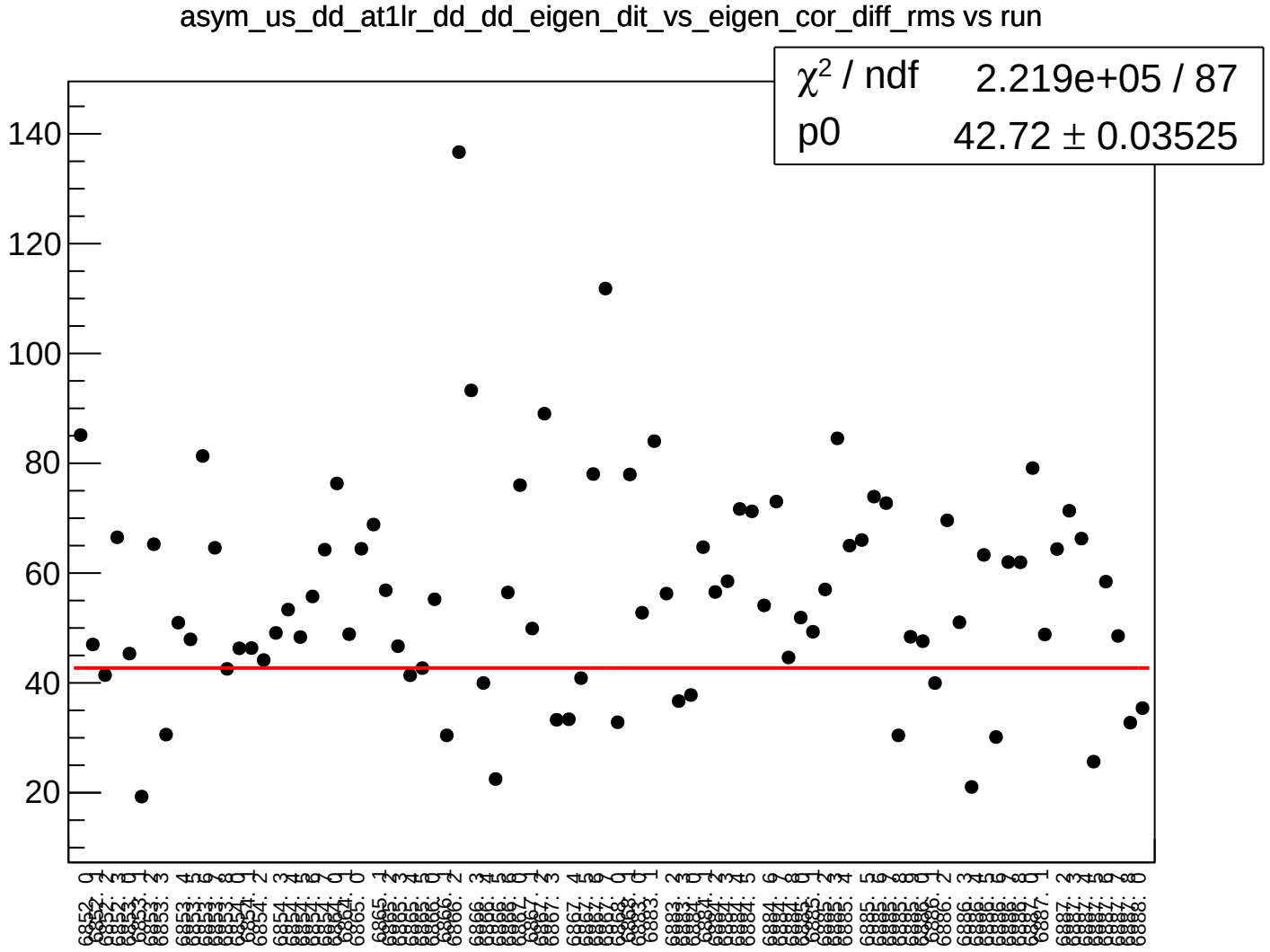

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 87
p0 0.05265 ± 0.04985
pull
Entries 88
Mean −22.46
Std Dev 0

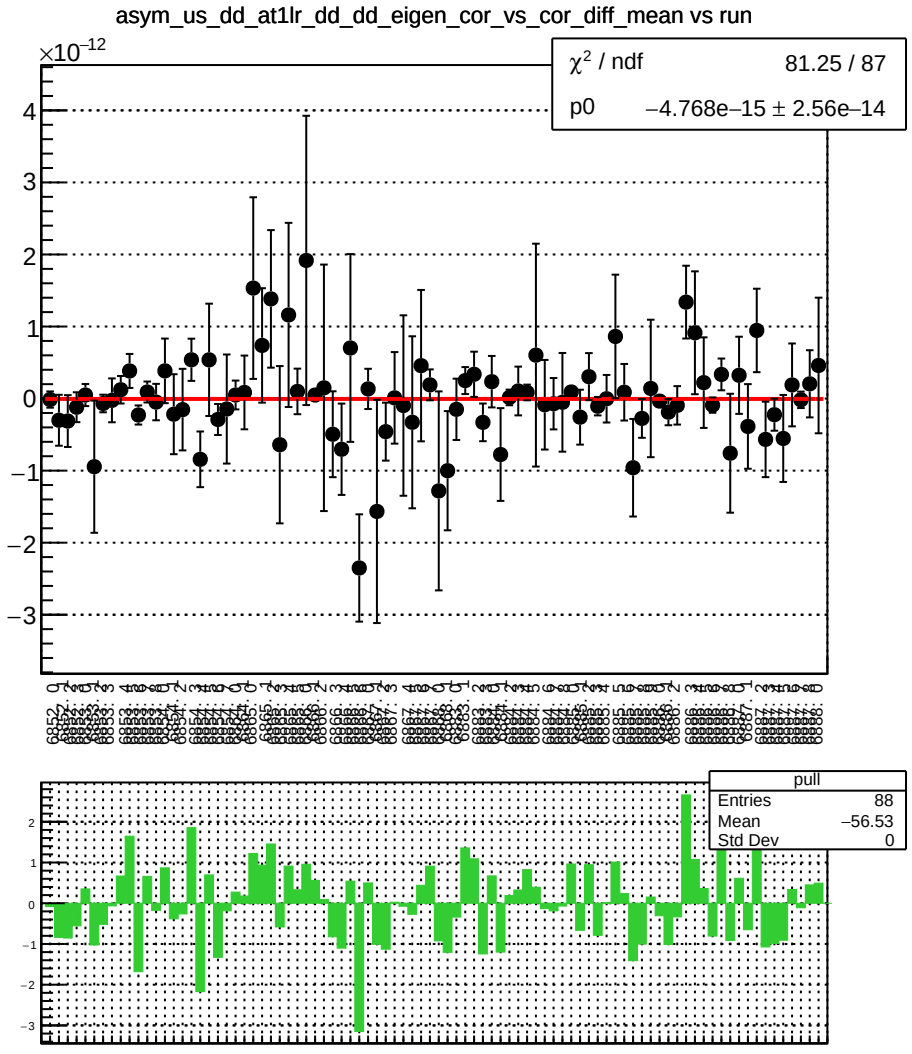

pull1D
Entries 88
Mean −0.04883
Std Dev 1.083

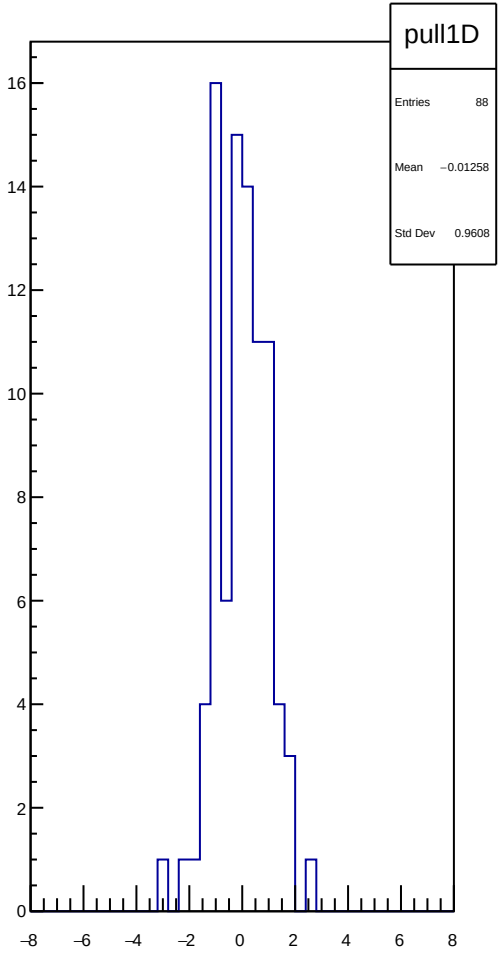

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.219e+05 / 87
p0 42.72 ± 0.03525
140
120
100
80
60
40
20

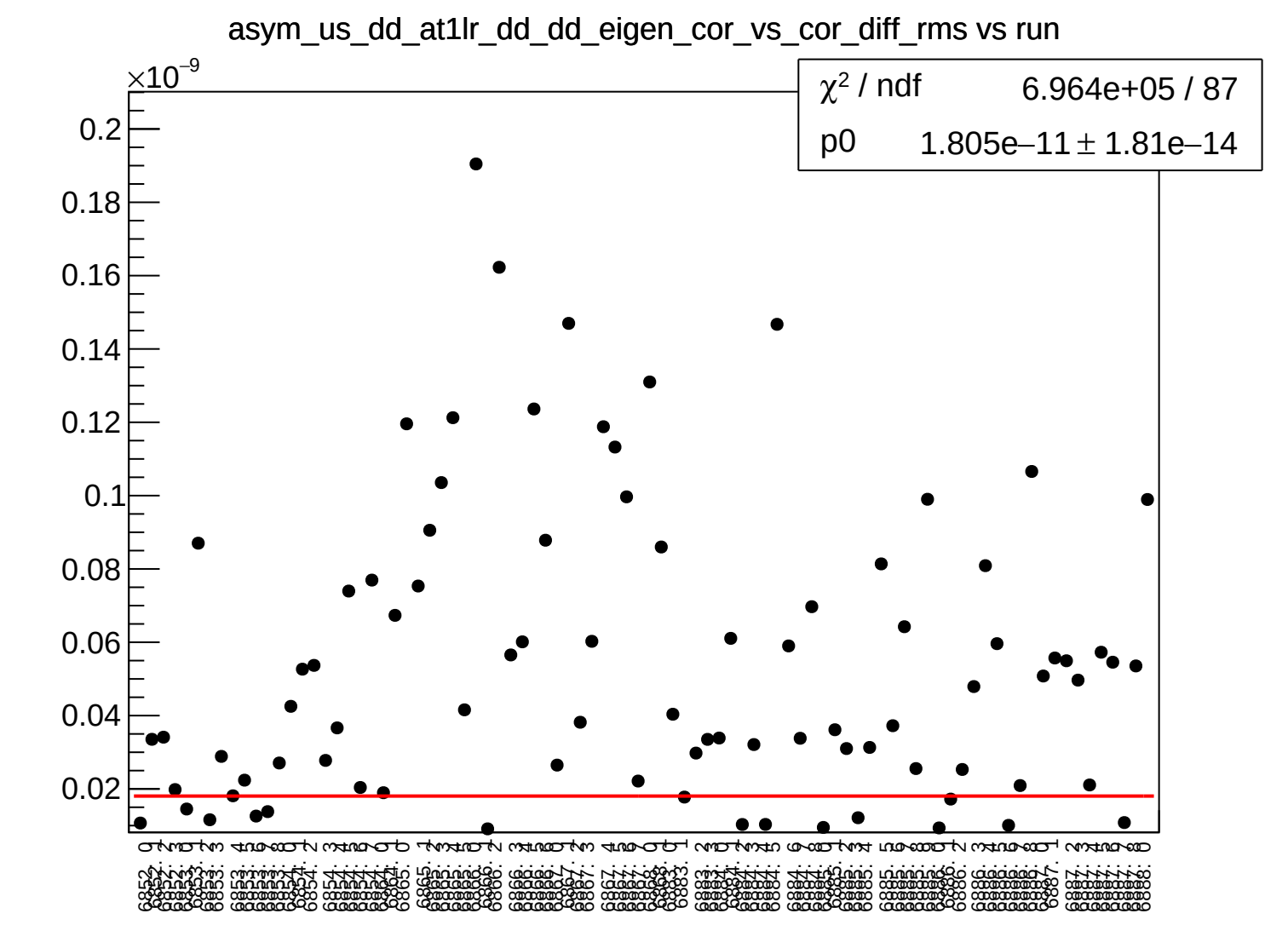

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.4 / 87
p0 0.05265 ± 0.04985
pull
Entries 88
Mean −22.46
Std Dev 0

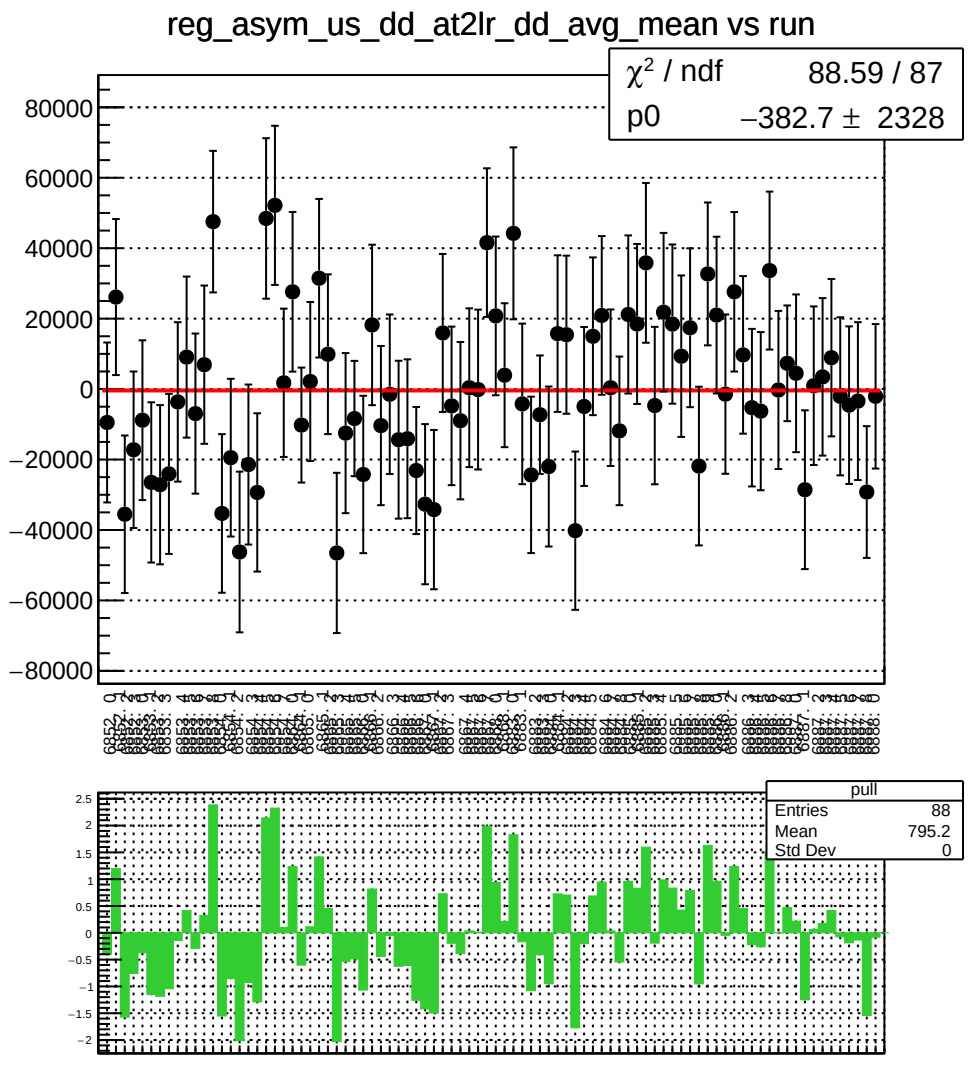

pull1D
Entries 88
Mean −0.04883
Std Dev 1.083

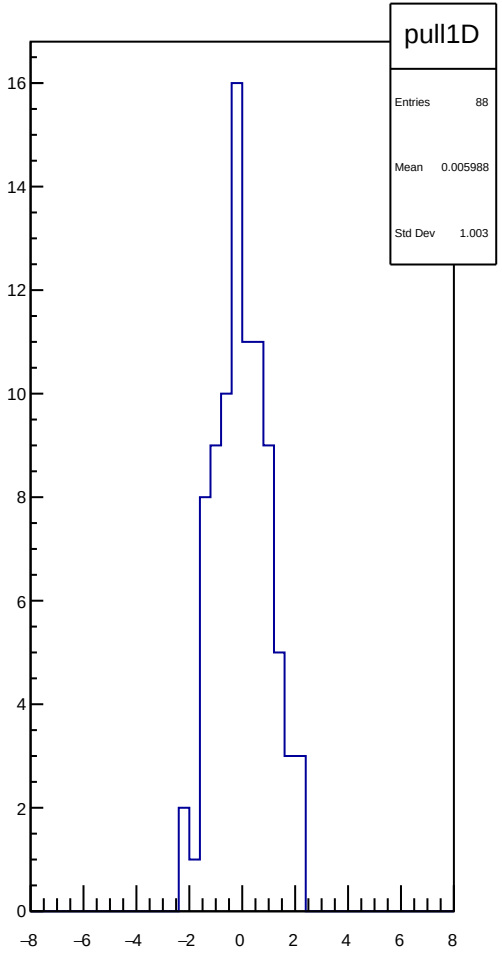

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.219e+05 / 87
p0 42.72 ± 0.03525
140
120
100
80
60
40
20

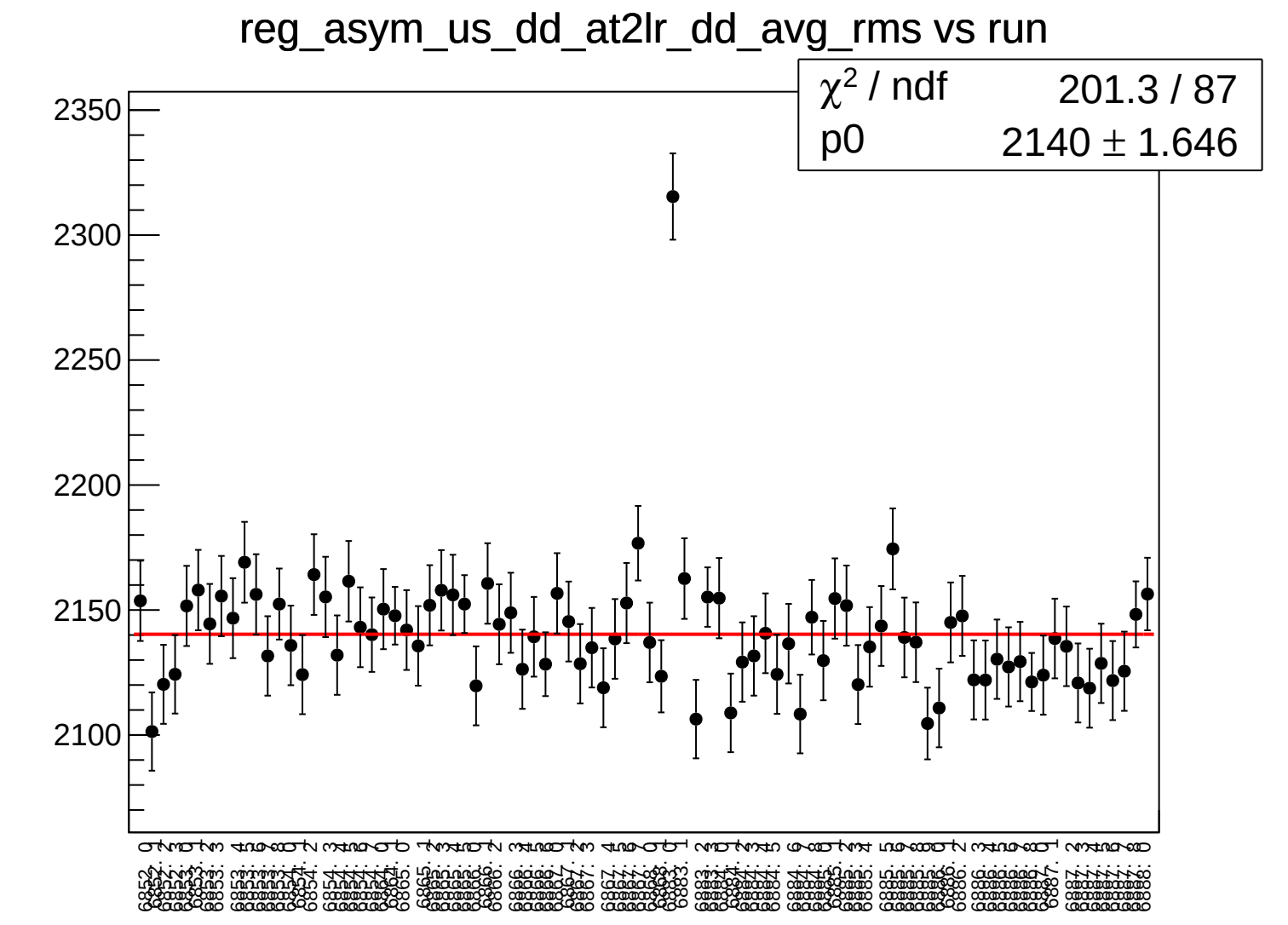

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.25 / 87
p0 −4.768e−15 ± 2.56e−14
pull
Entries 88
Mean −56.53
Std Dev 0

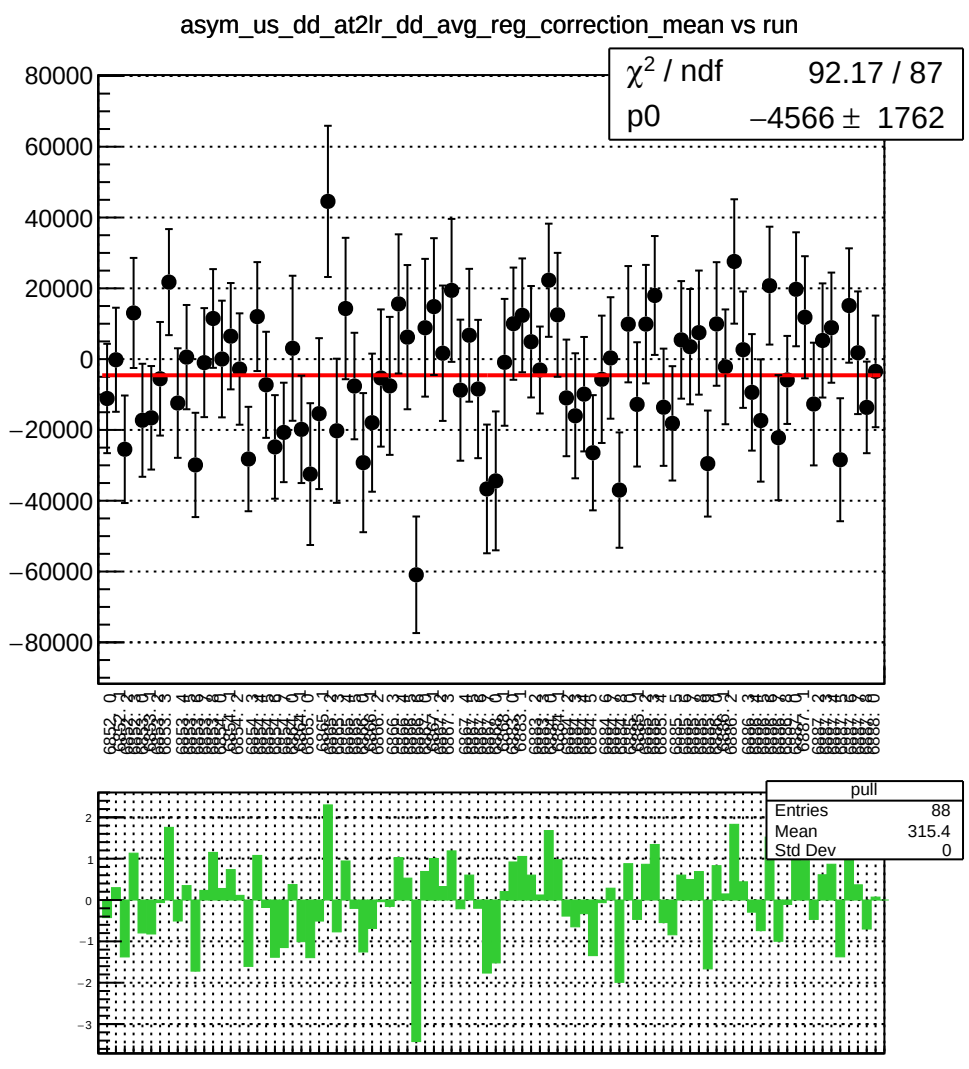

pull1D
Entries 88
Mean −0.01258
Std Dev 0.9608

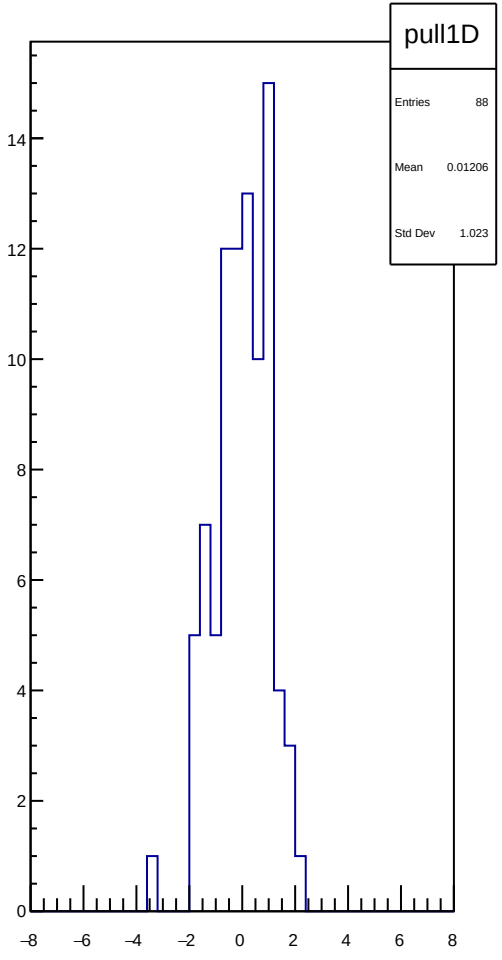

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.964e+05 / 87
p0 1.805e−11 ± 1.81e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

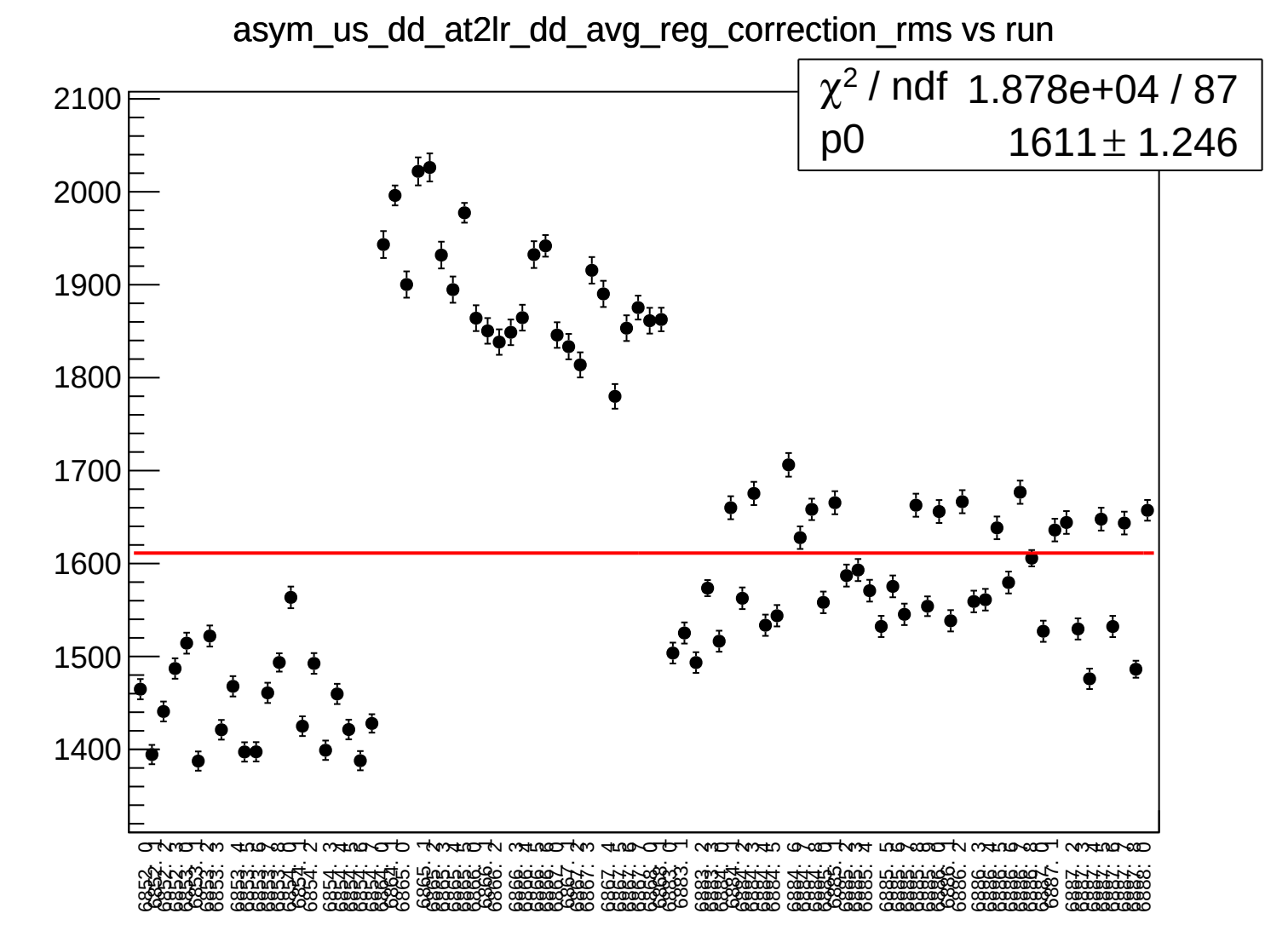

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 88.59 / 87
p0 −382.7 ± 2328
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 795.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

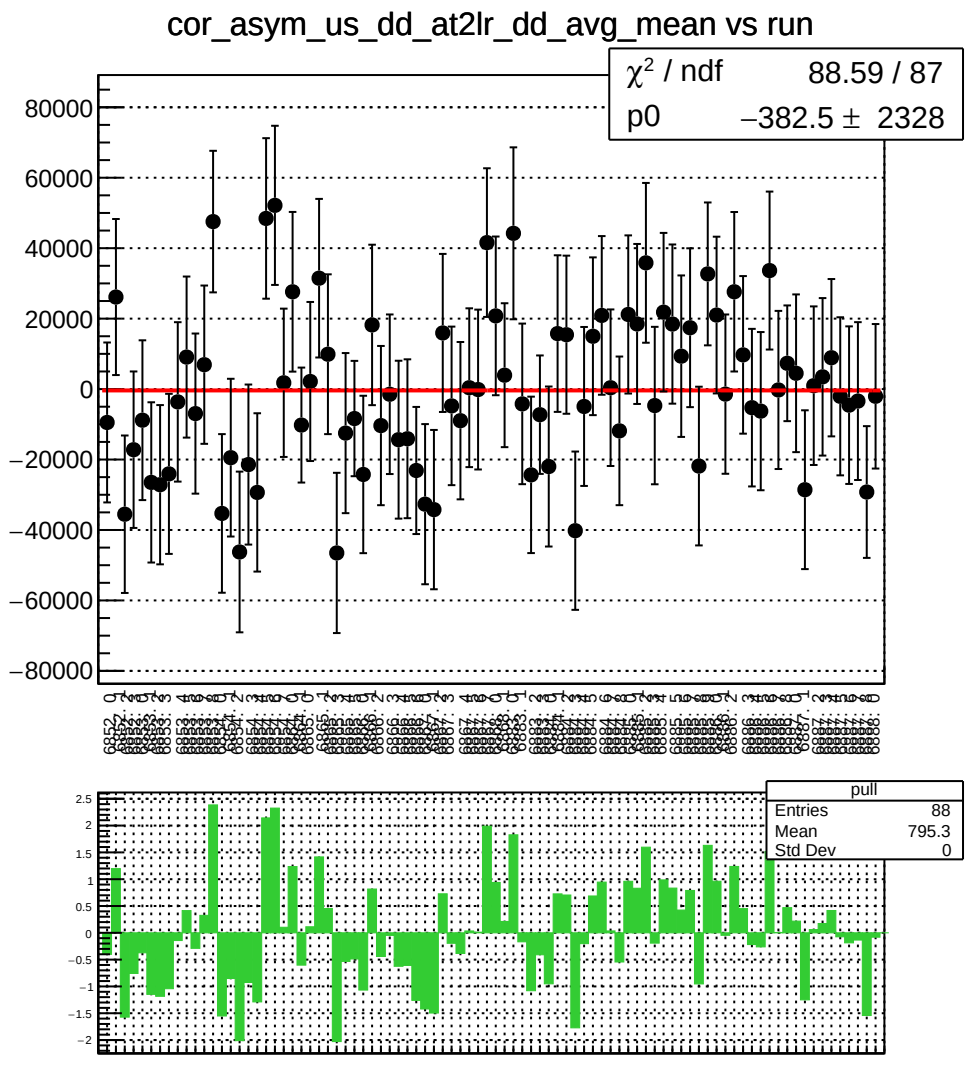

pull1D
Entries 88
Mean 0.005988
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

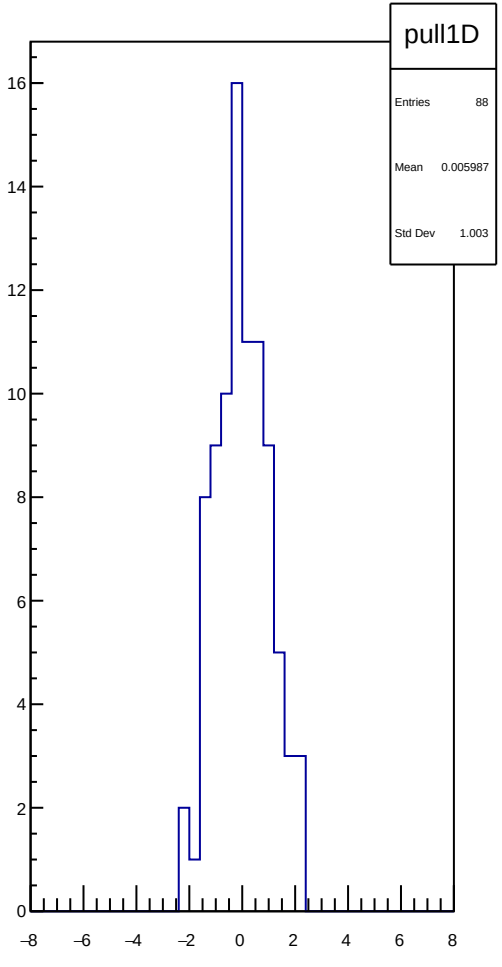

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 201.3 / 87
p0 2140 ± 1.646
2350
2300
2250
2200
2150
2100

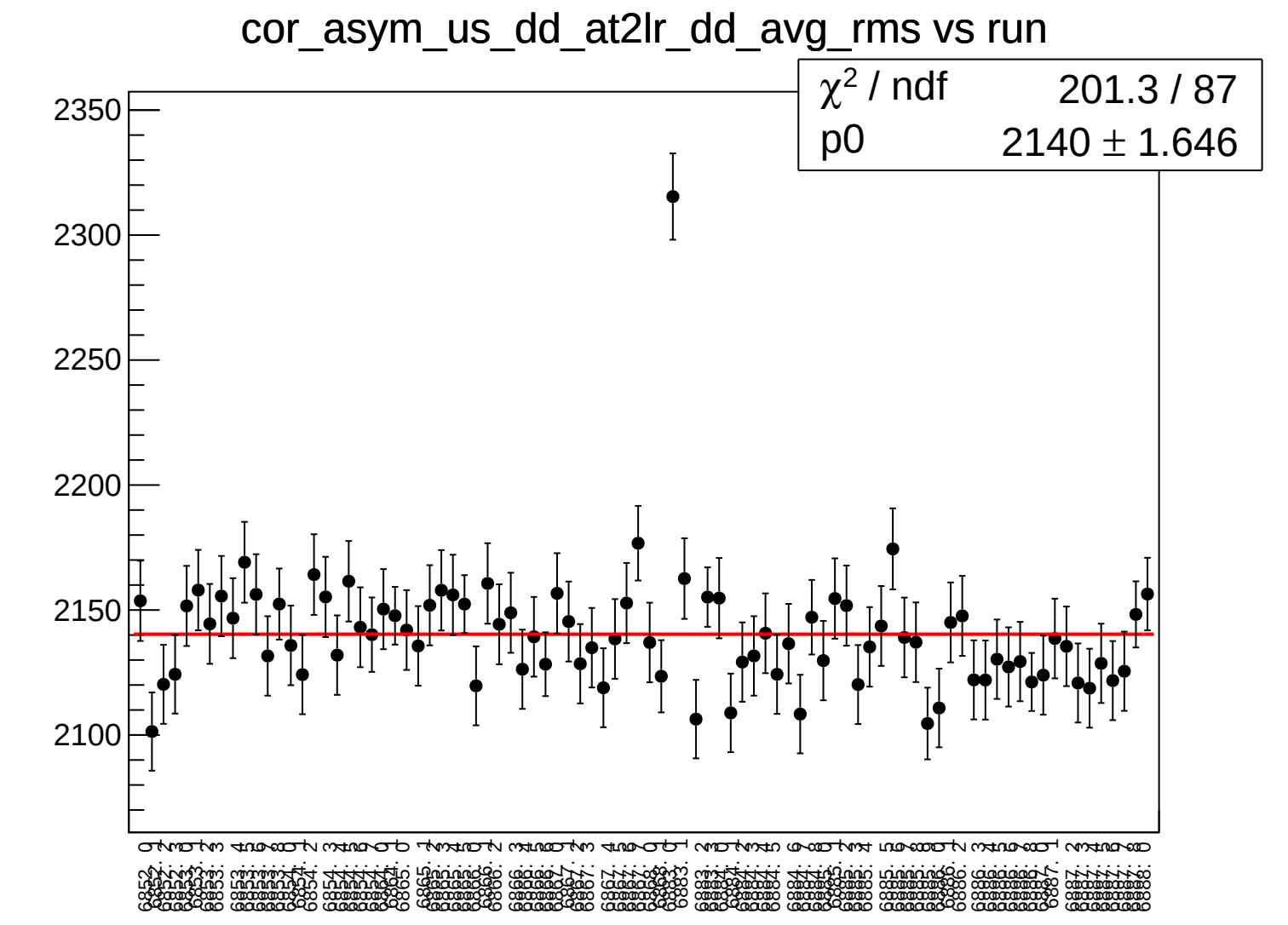

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 92.17 / 87
p0 −4566 ± 1762
pull
Entries 88
Mean 315.4
Std Dev 0

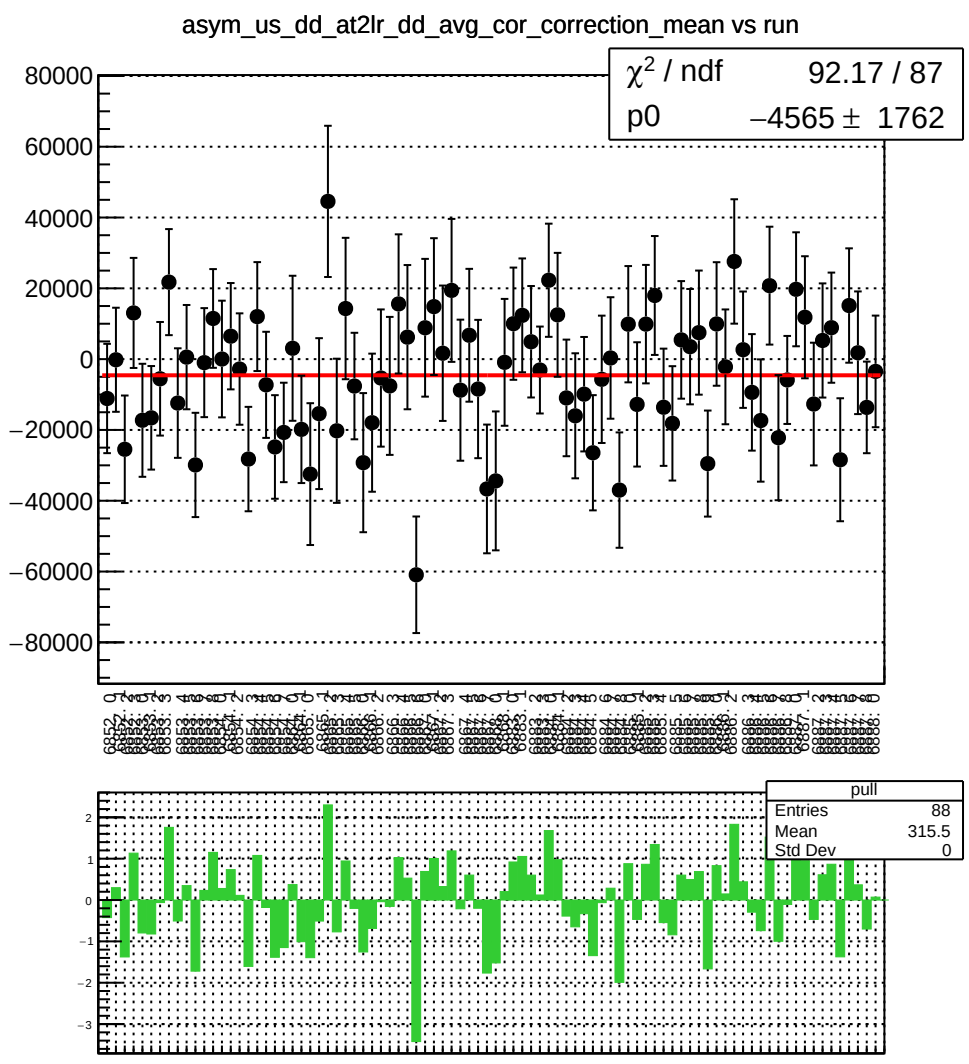

pull1D
Entries 88
Mean 0.01206
Std Dev 1.023

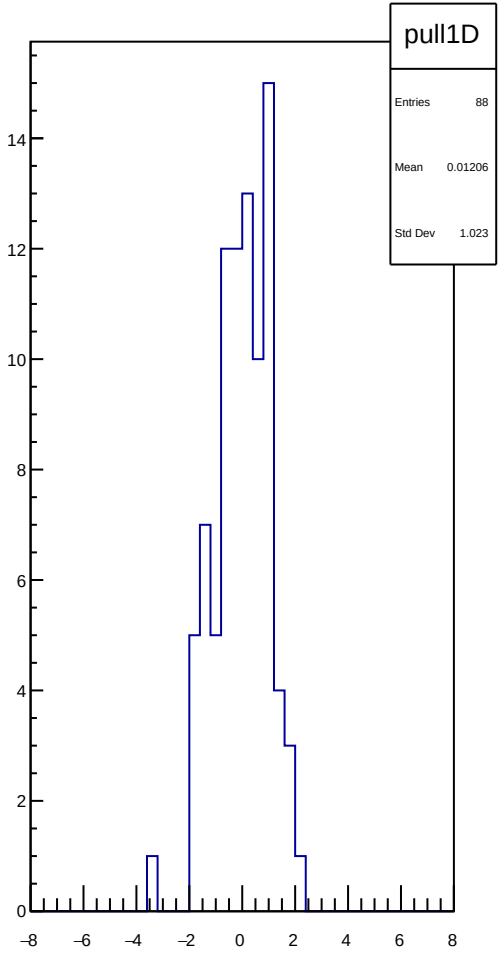

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.878e+04 / 87
p0 1611 ± 1.246
2100
2000
1900
1800
1700
1600
1500
1400

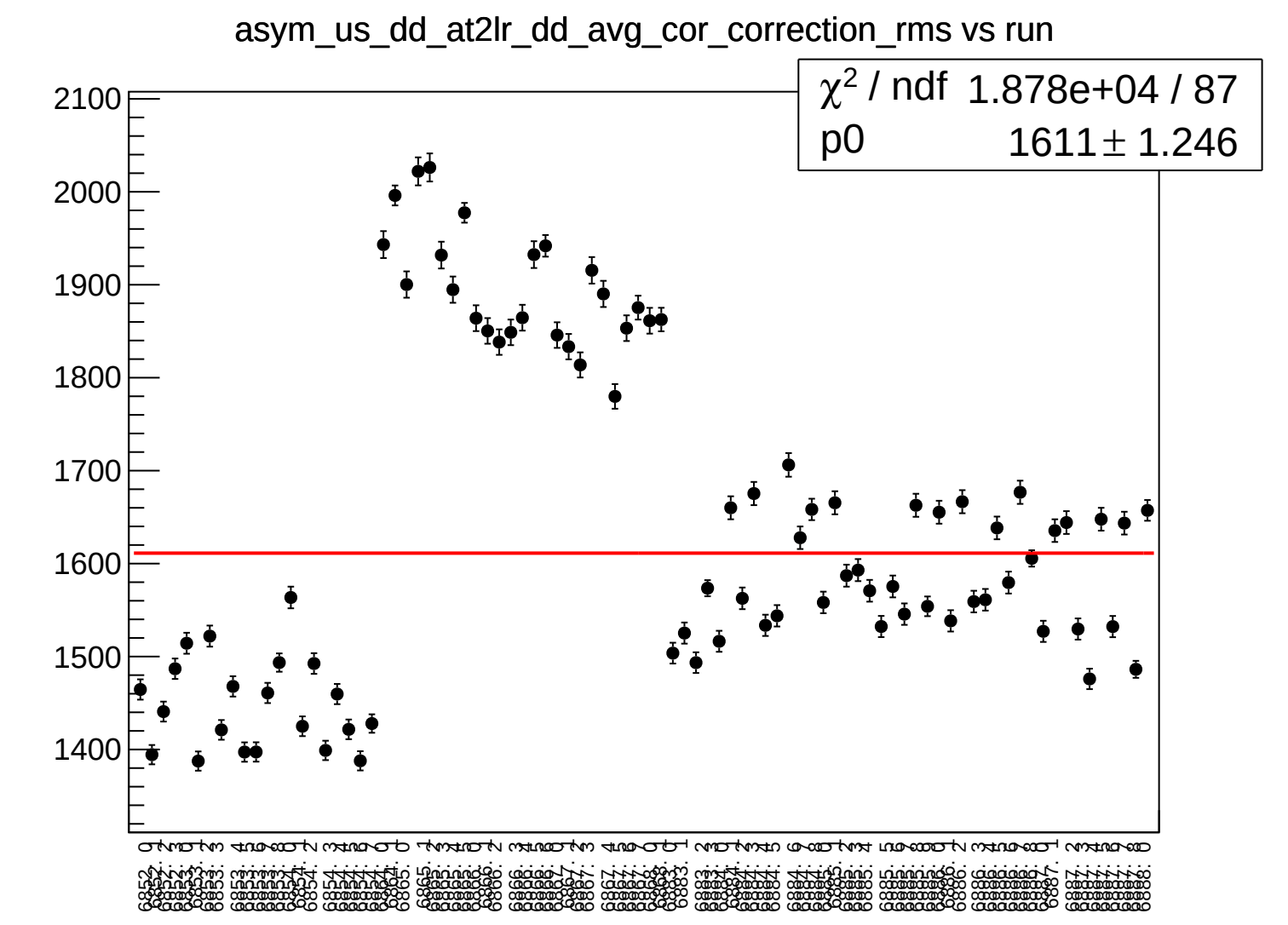

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 88.59 / 87
p0 −382.5 ± 2328
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 795.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

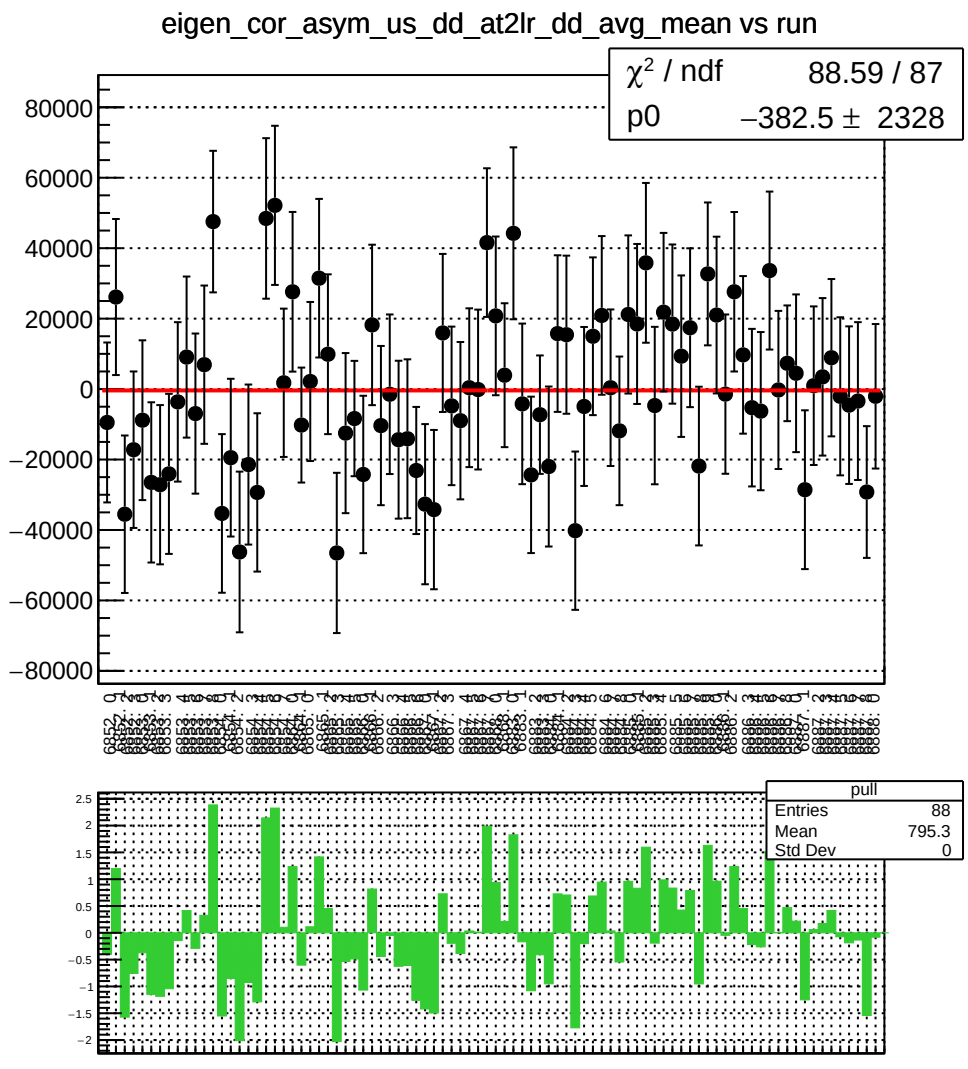

pull1D
Entries 88
Mean 0.005987
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

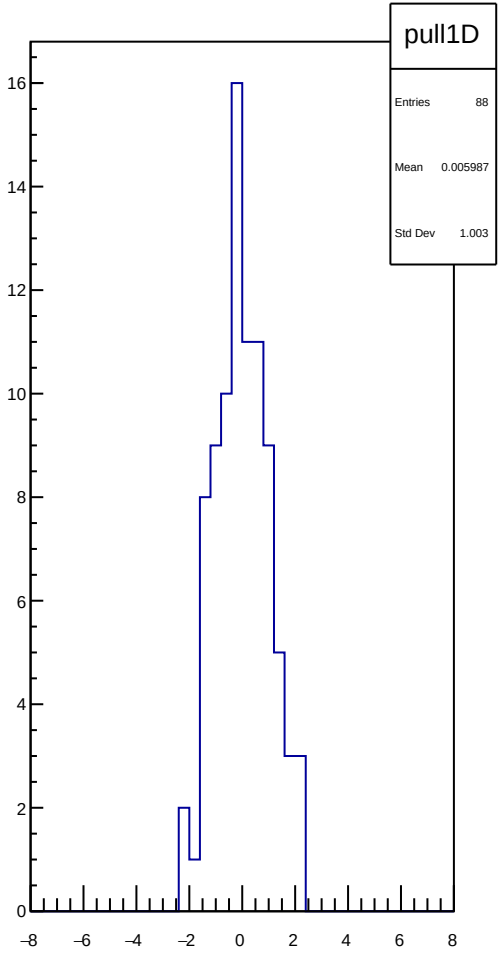

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 201.3 / 87
p0 2140 ± 1.646
2350
2300
2250
2200
2150
2100

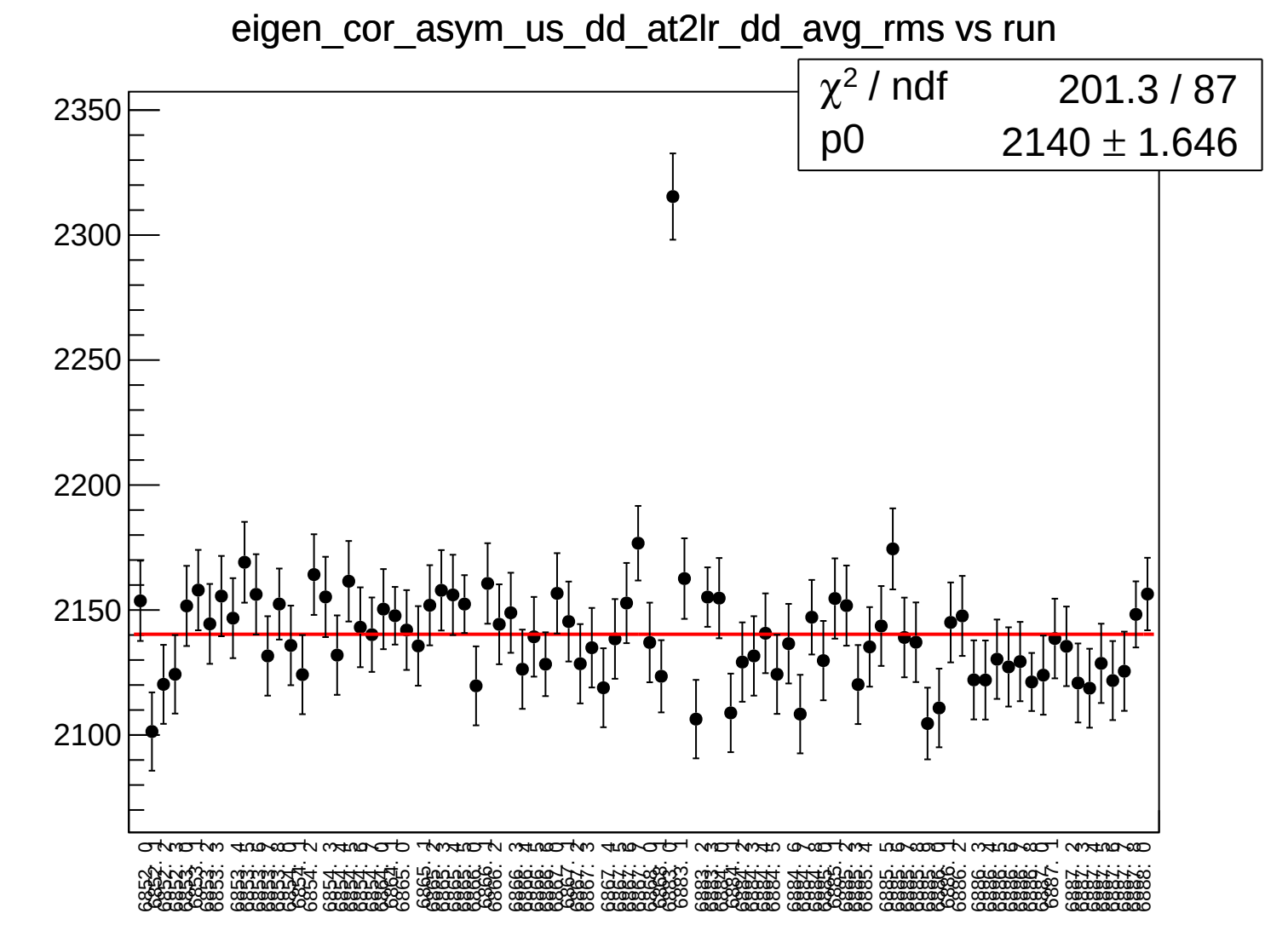

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 92.17 / 87
p0 −4565 ± 1762
pull
Entries 88
Mean 315.5
Std Dev 0

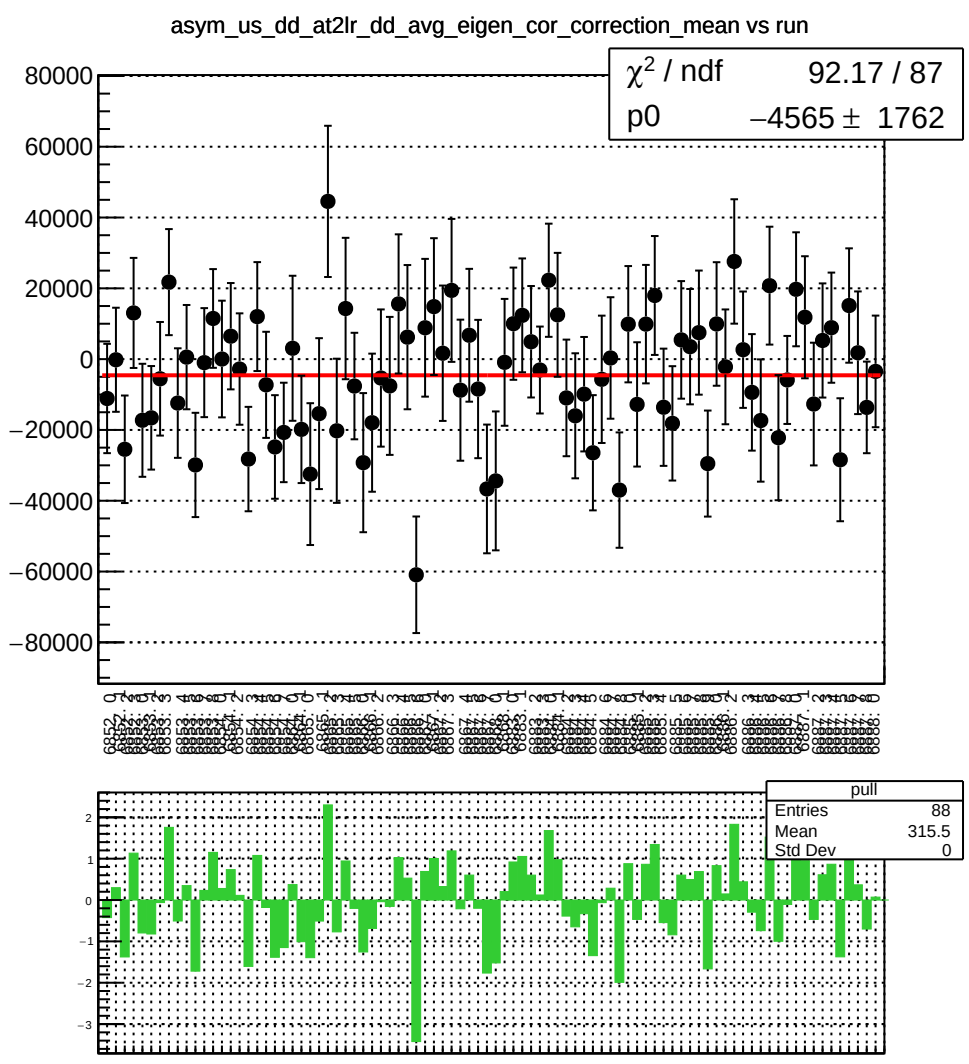

pull1D
Entries 88
Mean 0.01206
Std Dev 1.023

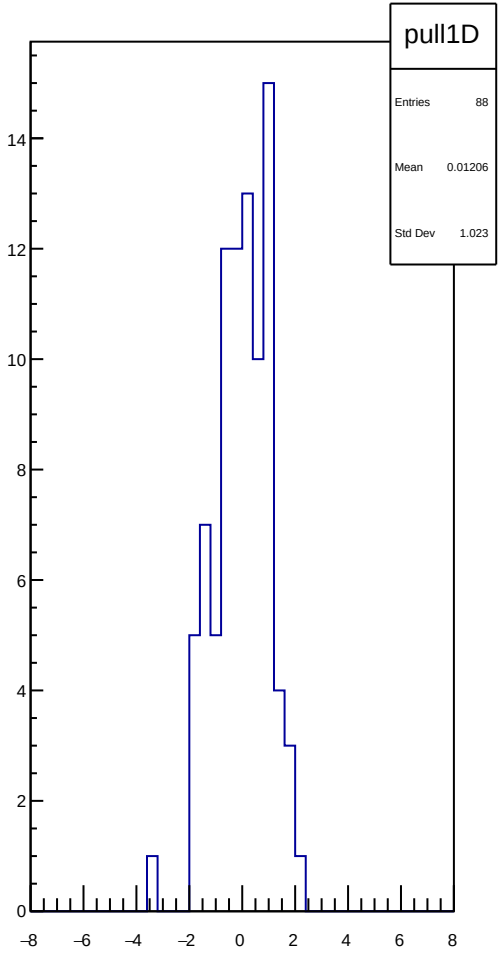

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.878e+04 / 87
p0 1611 ± 1.246
2100
2000
1900
1800
1700
1600
1500
1400

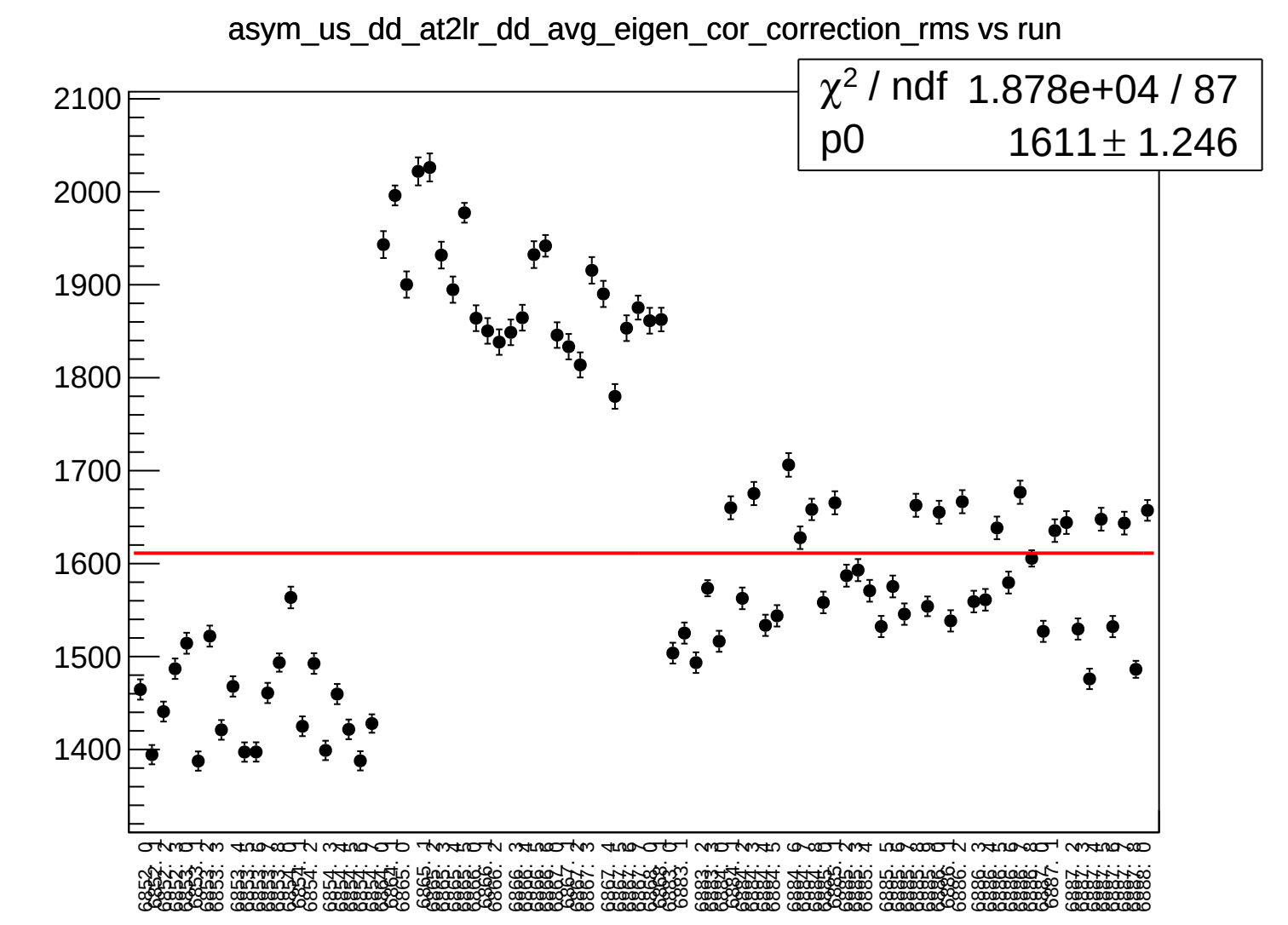

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 88.59 / 87
p0 −382.5 ± 2328
pull
Entries 88
Mean 795.3
Std Dev 0

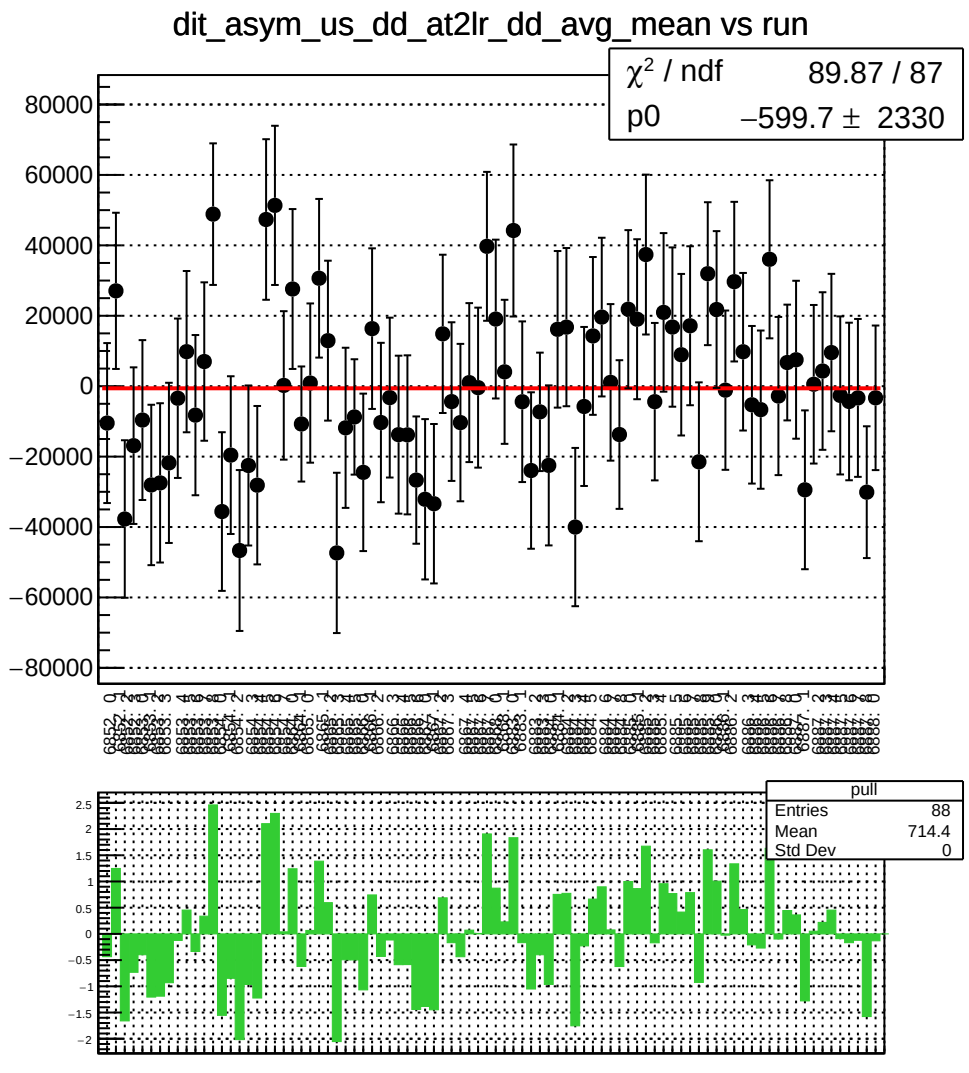

pull1D
Entries 88
Mean 0.005987
Std Dev 1.003

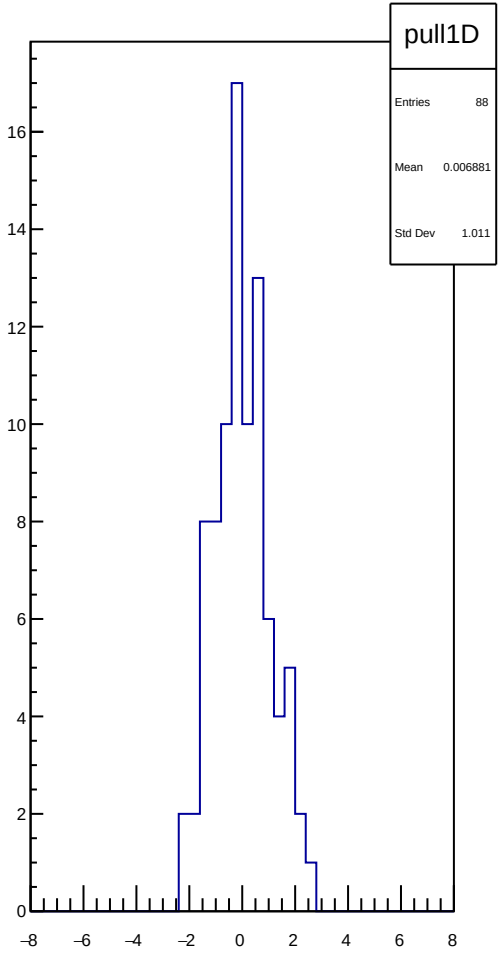

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 201.3 / 87
p0 2140 ± 1.646
2350
2300
2250
2200
2150
2100

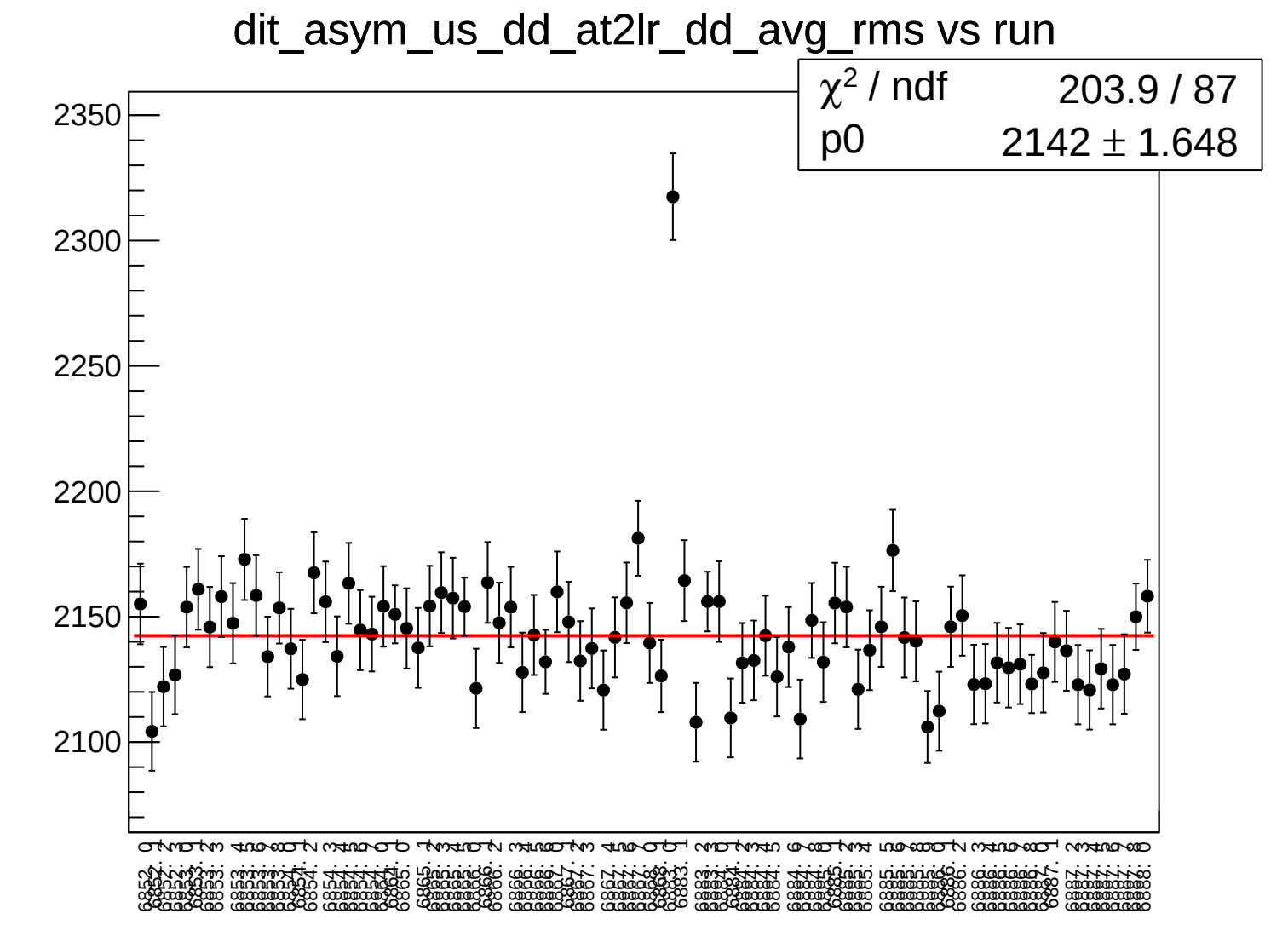

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 92.17 / 87
p0 −4565 ± 1762
pull
Entries 88
Mean 315.5
Std Dev 0

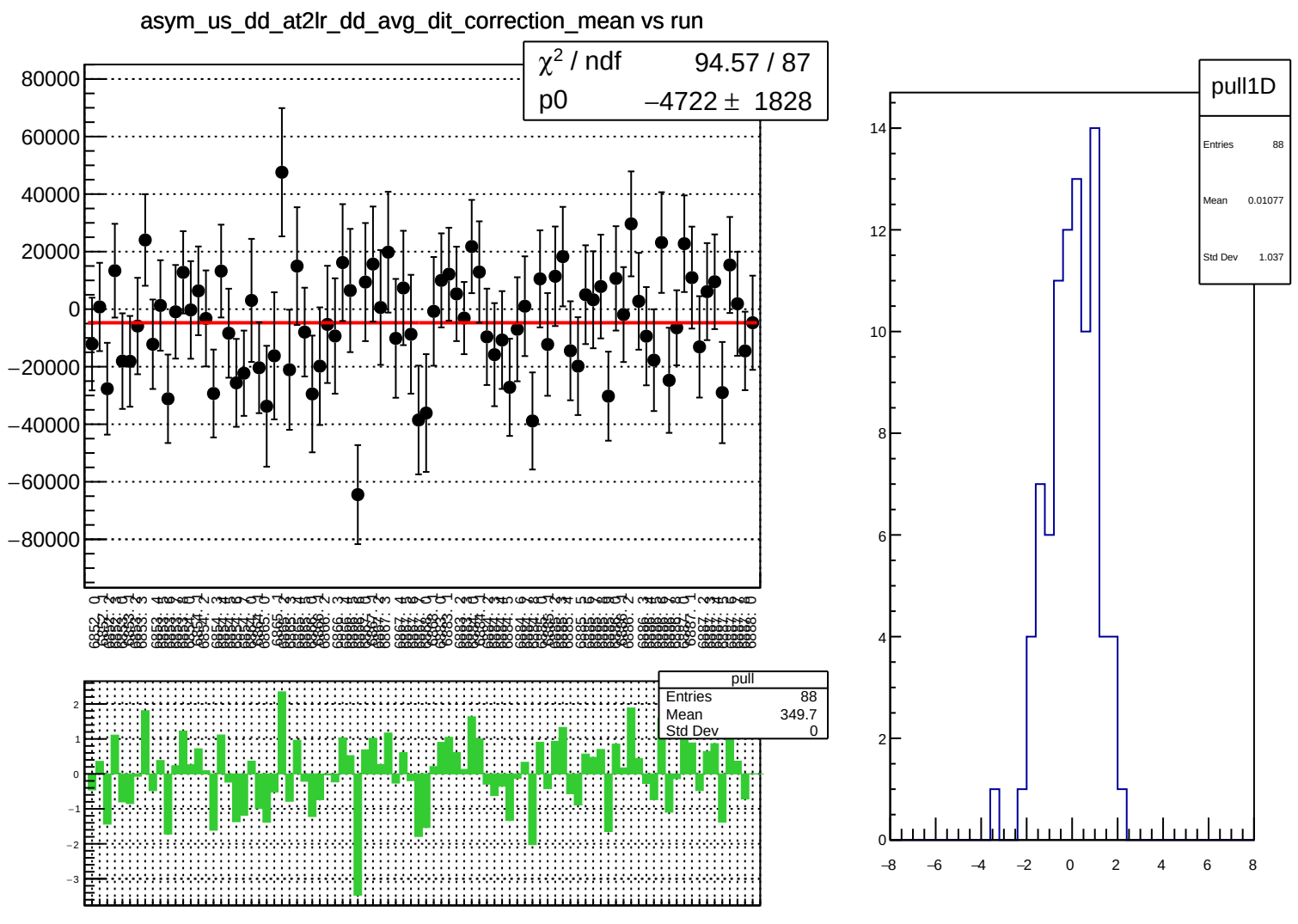

pull1D
Entries 88
Mean 0.01206
Std Dev 1.023

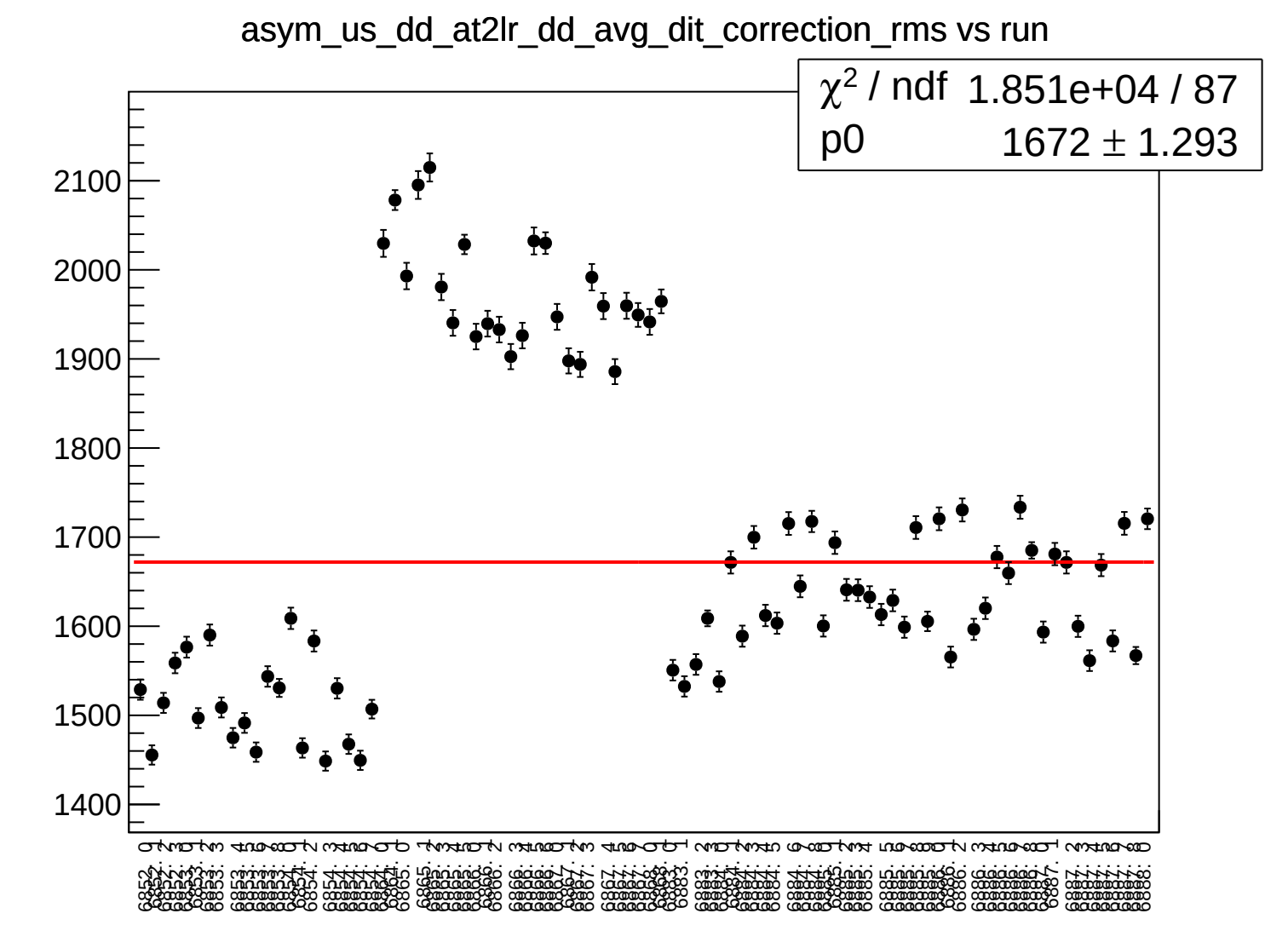

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.878e+04 / 87
p0 1611 ± 1.246
2100
2000
1900
1800
1700
1600
1500
1400

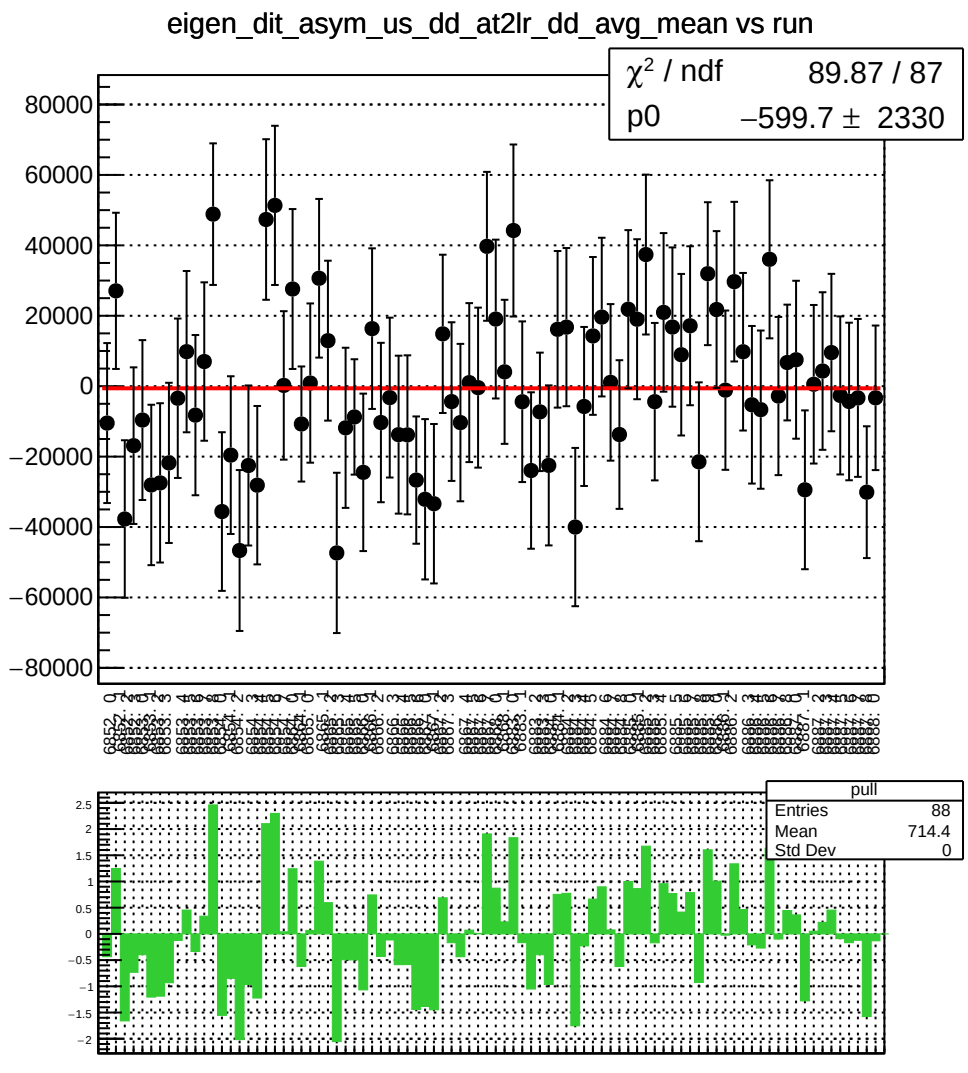

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 89.87 / 87
p0 −599.7 ± 2330
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 714.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

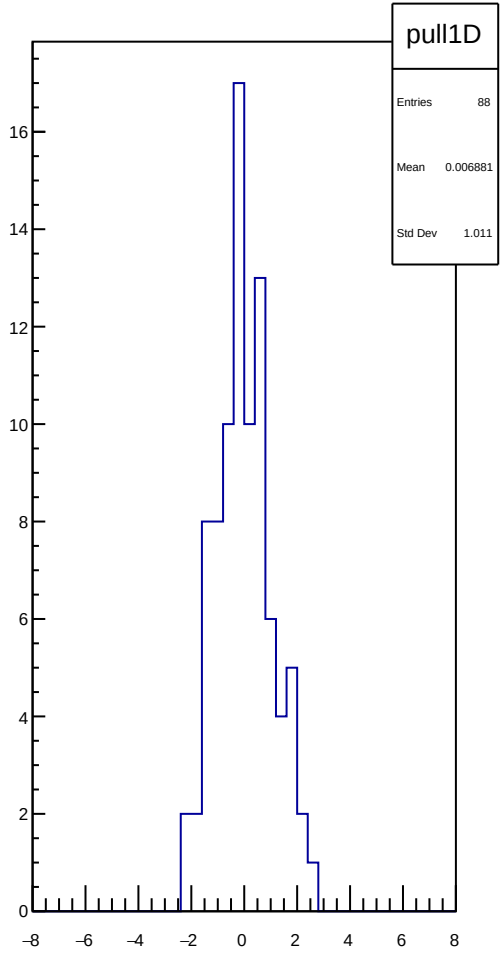

pull1D
Entries 88
Mean 0.006881
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

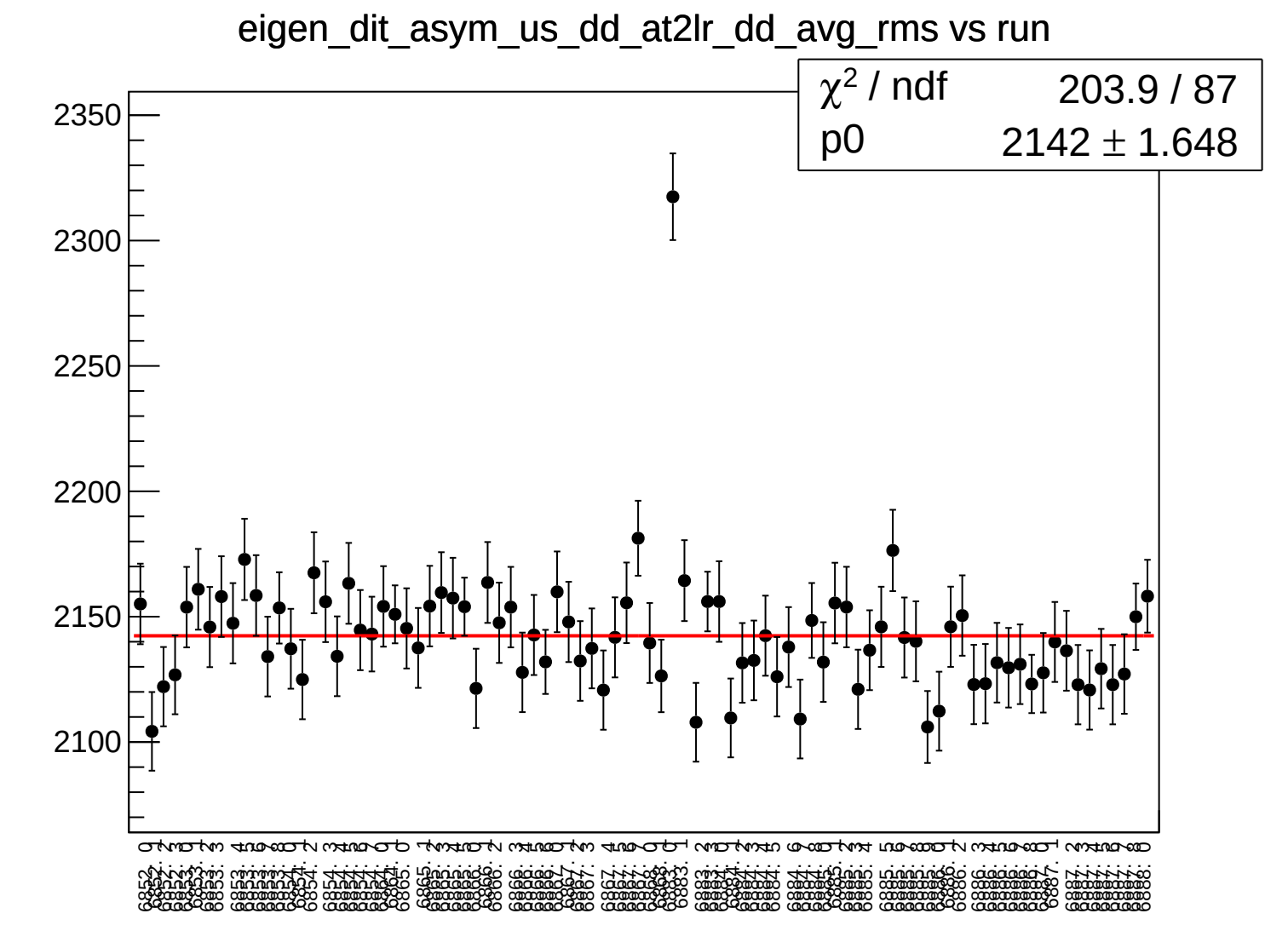

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 203.9 / 87
p0 2142 ± 1.648
2350
2300
2250
2200
2150
2100

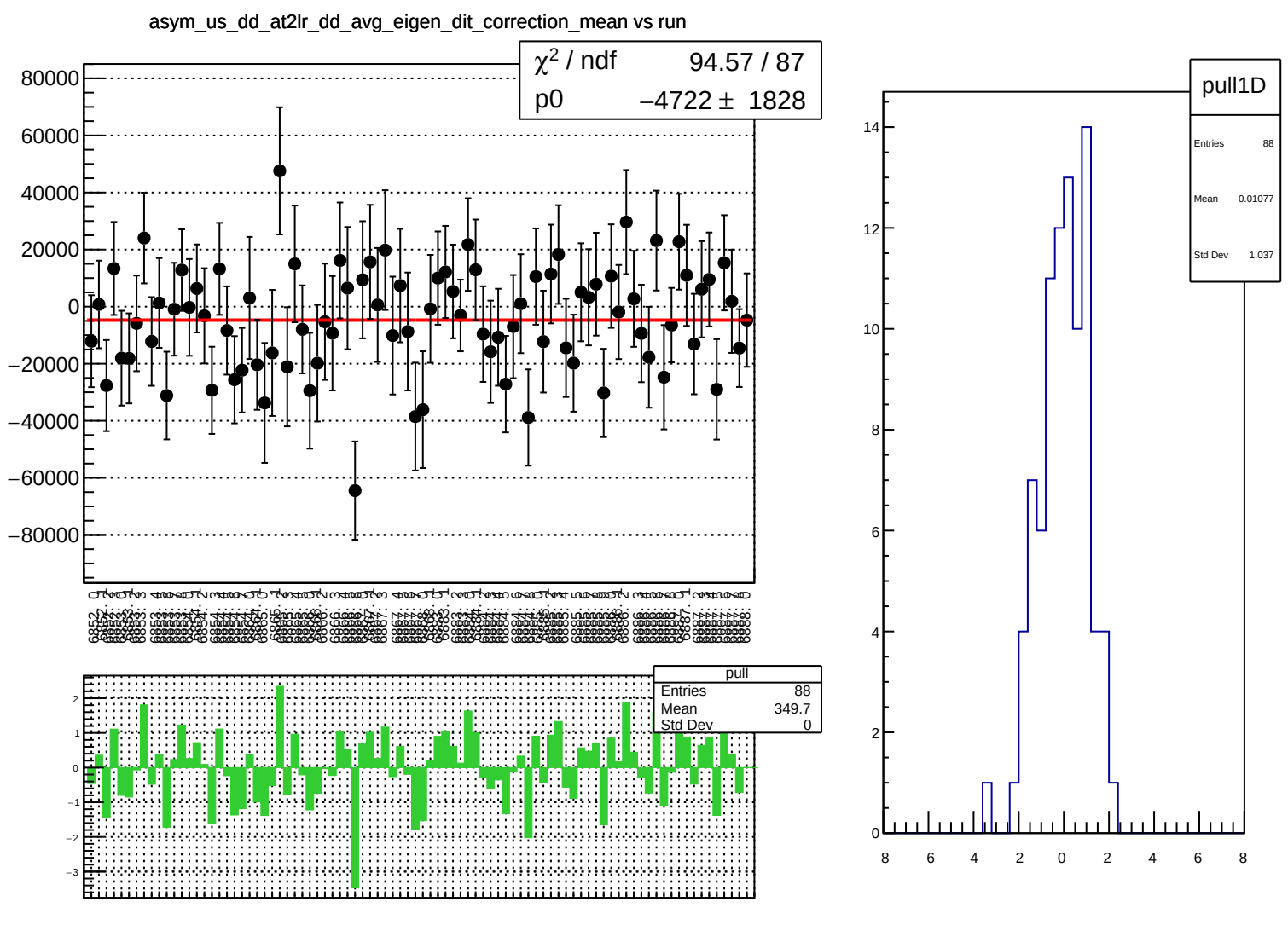

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 94.57 / 87
p0 −4722 ± 1828
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 349.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01077
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

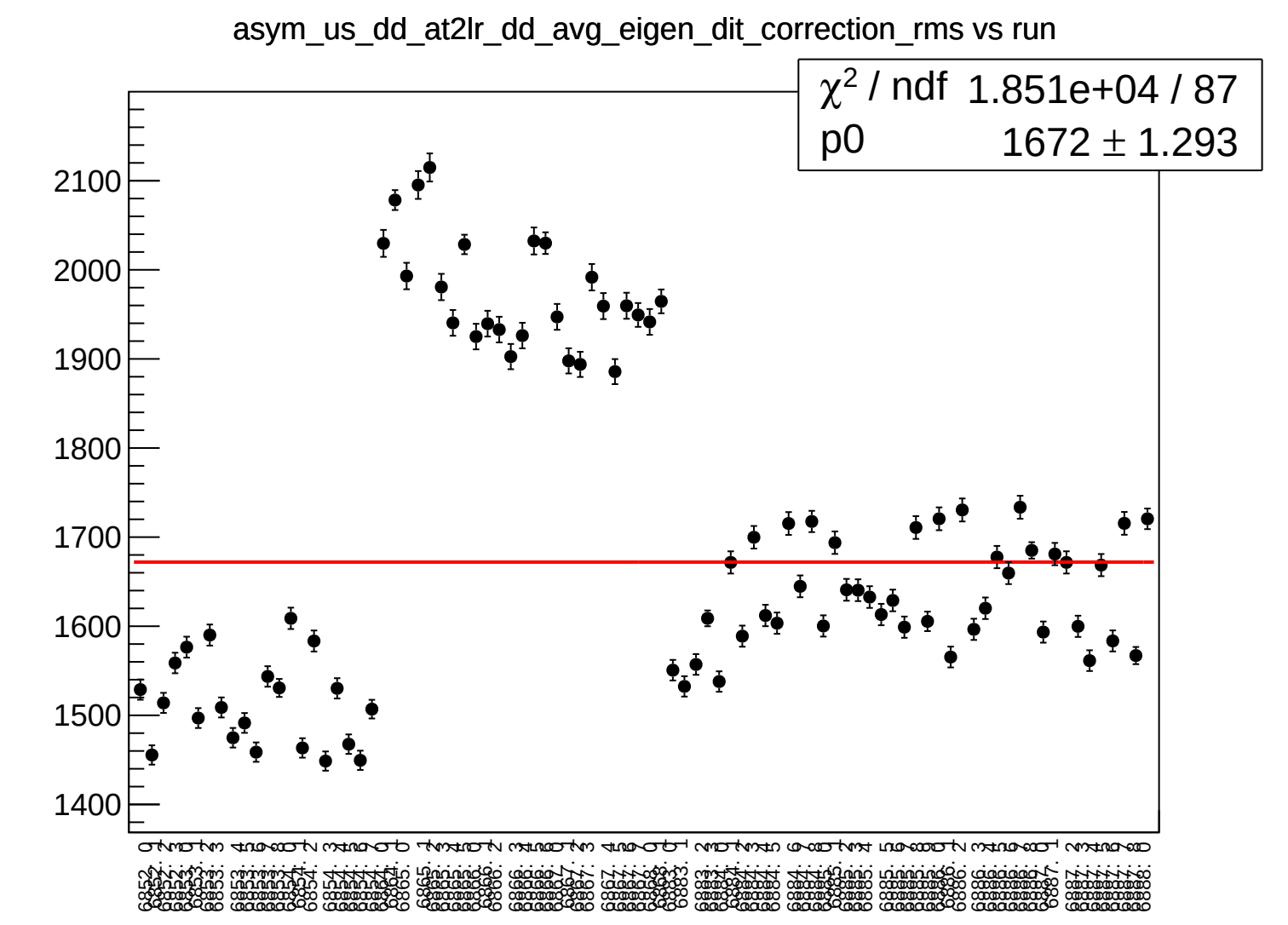

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.851e+04 / 87
p0 1672 ± 1.293
2100
2000
1900
1800
1700
1600
1500
1400

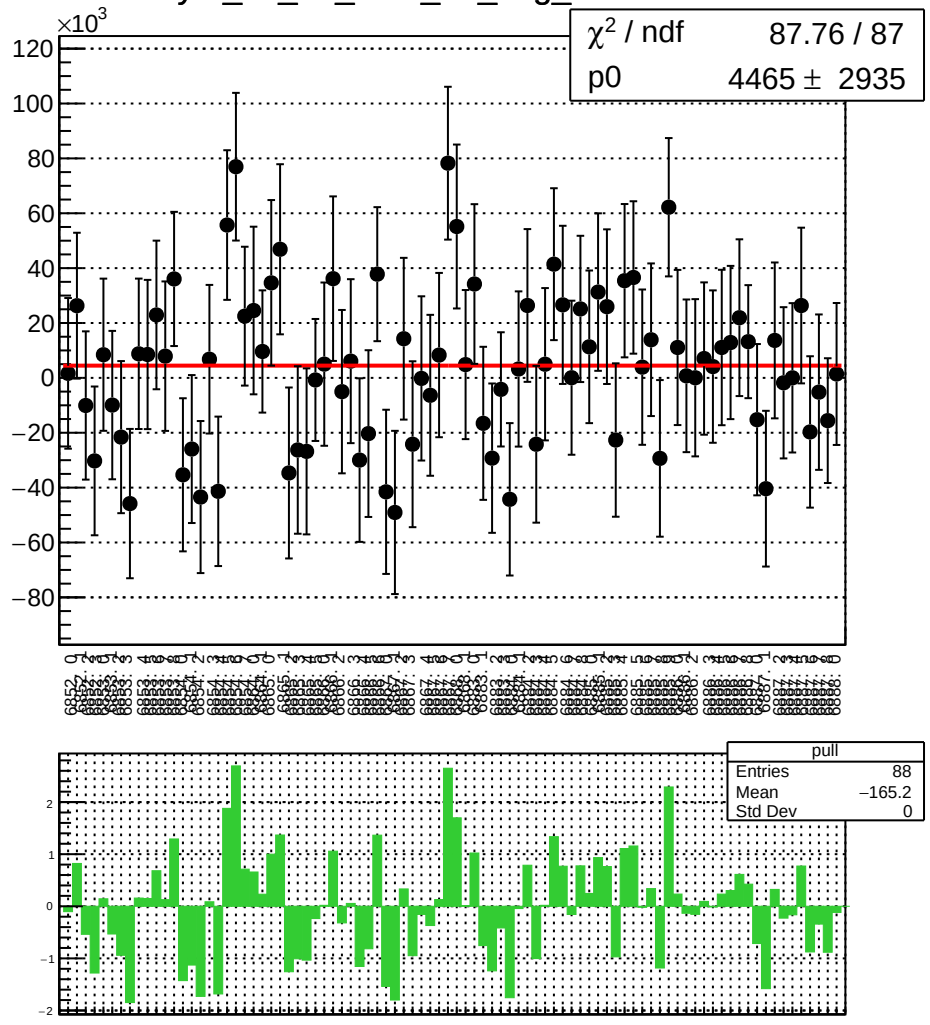

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 89.87 / 87
p0 −599.7 ± 2330
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 714.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

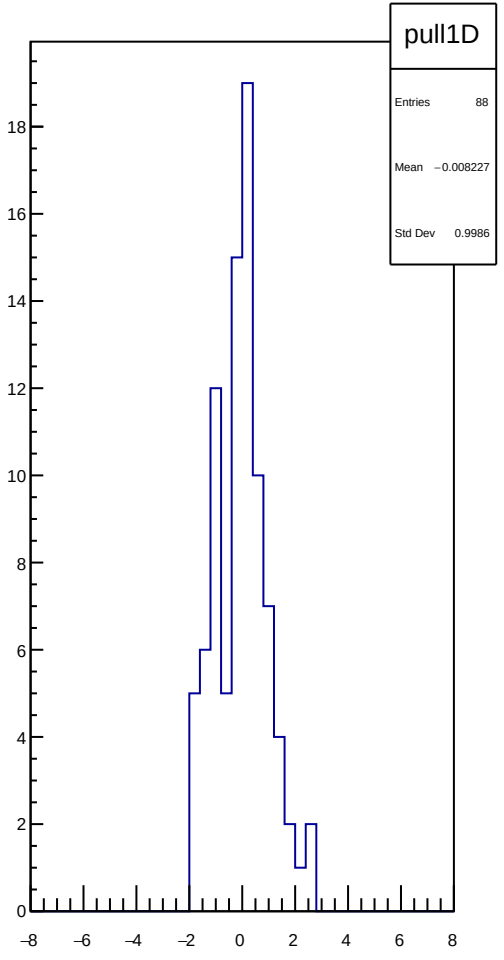

pull1D
Entries 88
Mean 0.006881
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

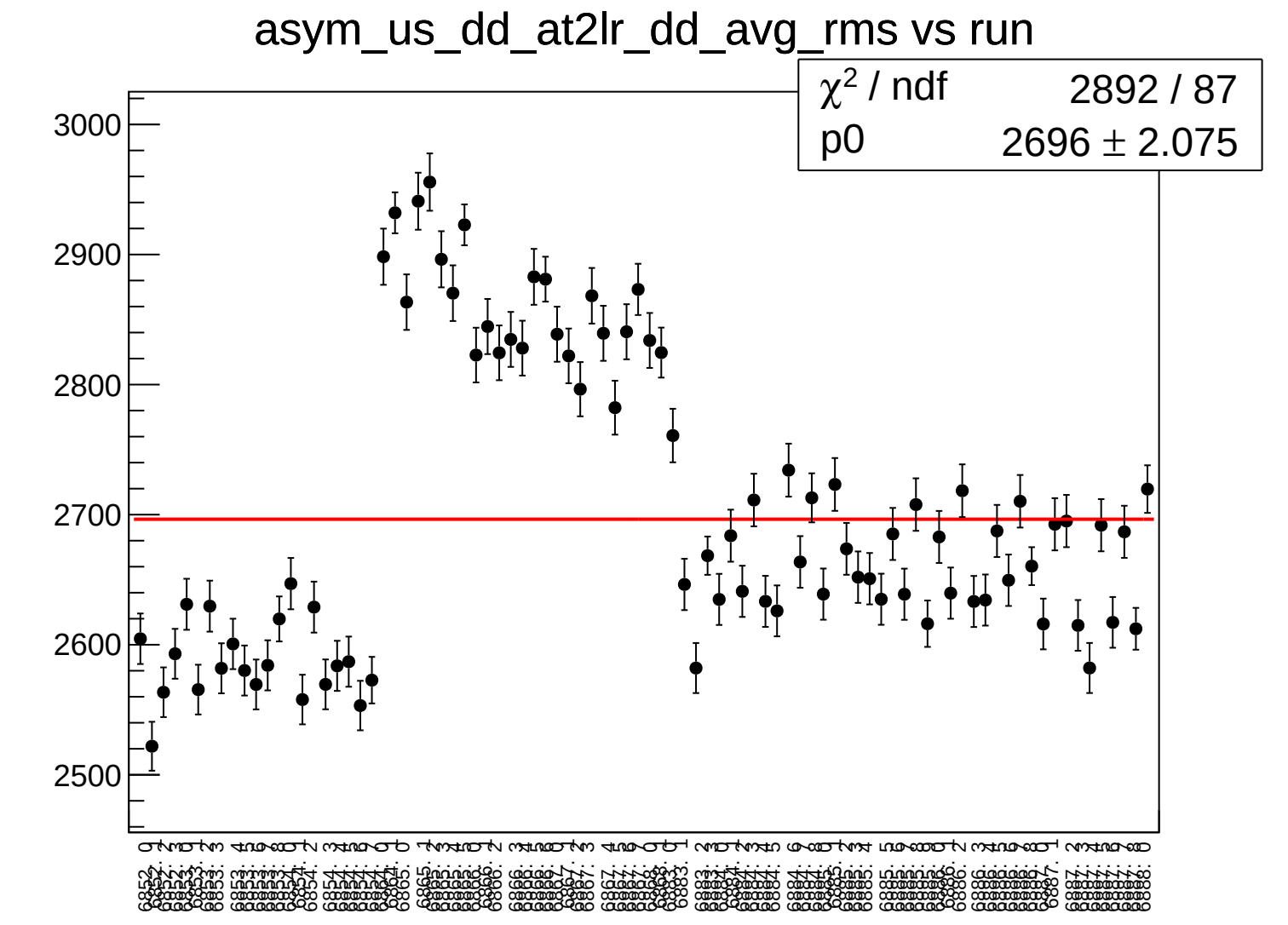

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 203.9 / 87
p0 2142 ± 1.648
2350
2300
2250
2200
2150
2100

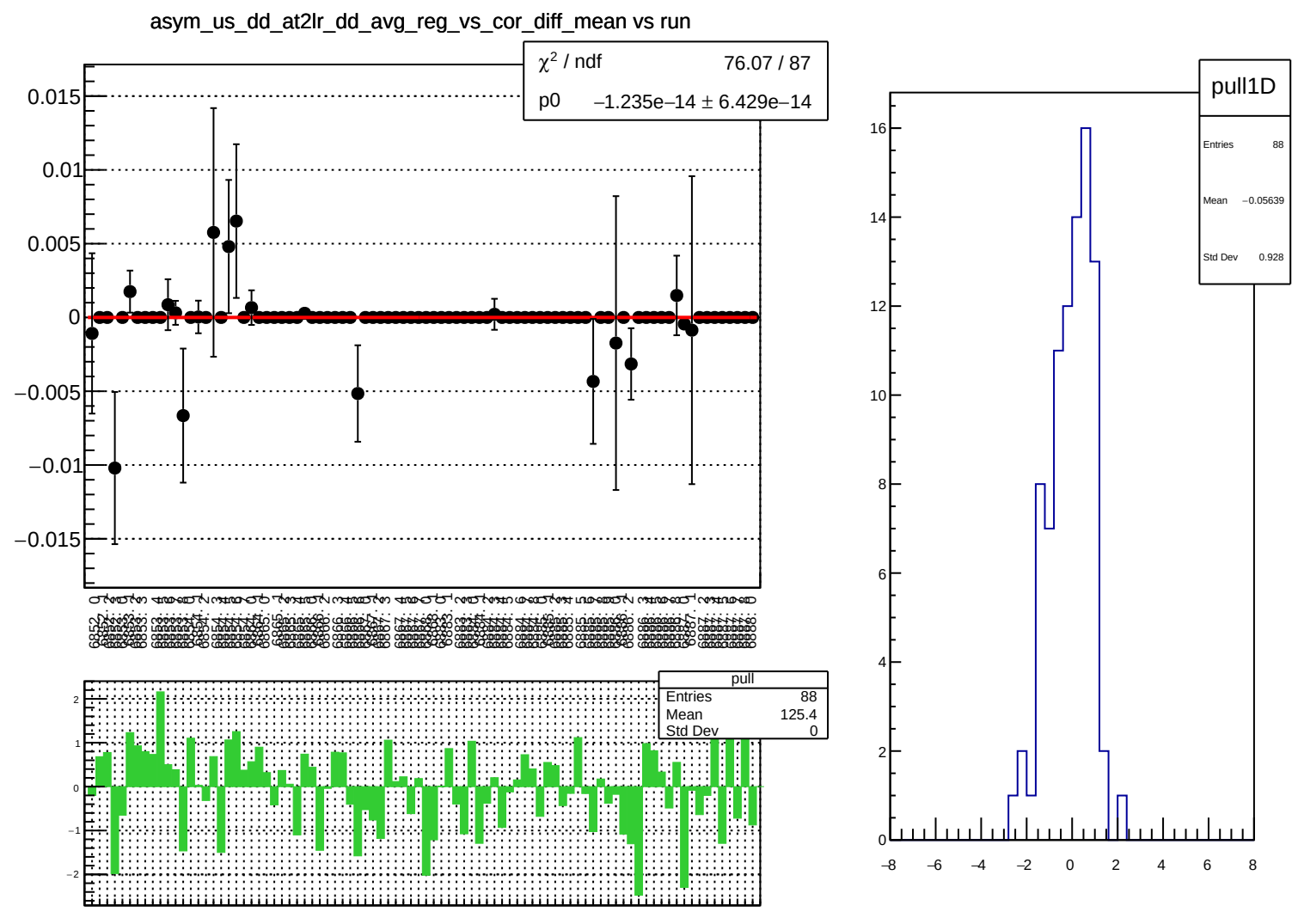

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 94.57 / 87
p0 −4722 ± 1828
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 349.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01077
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

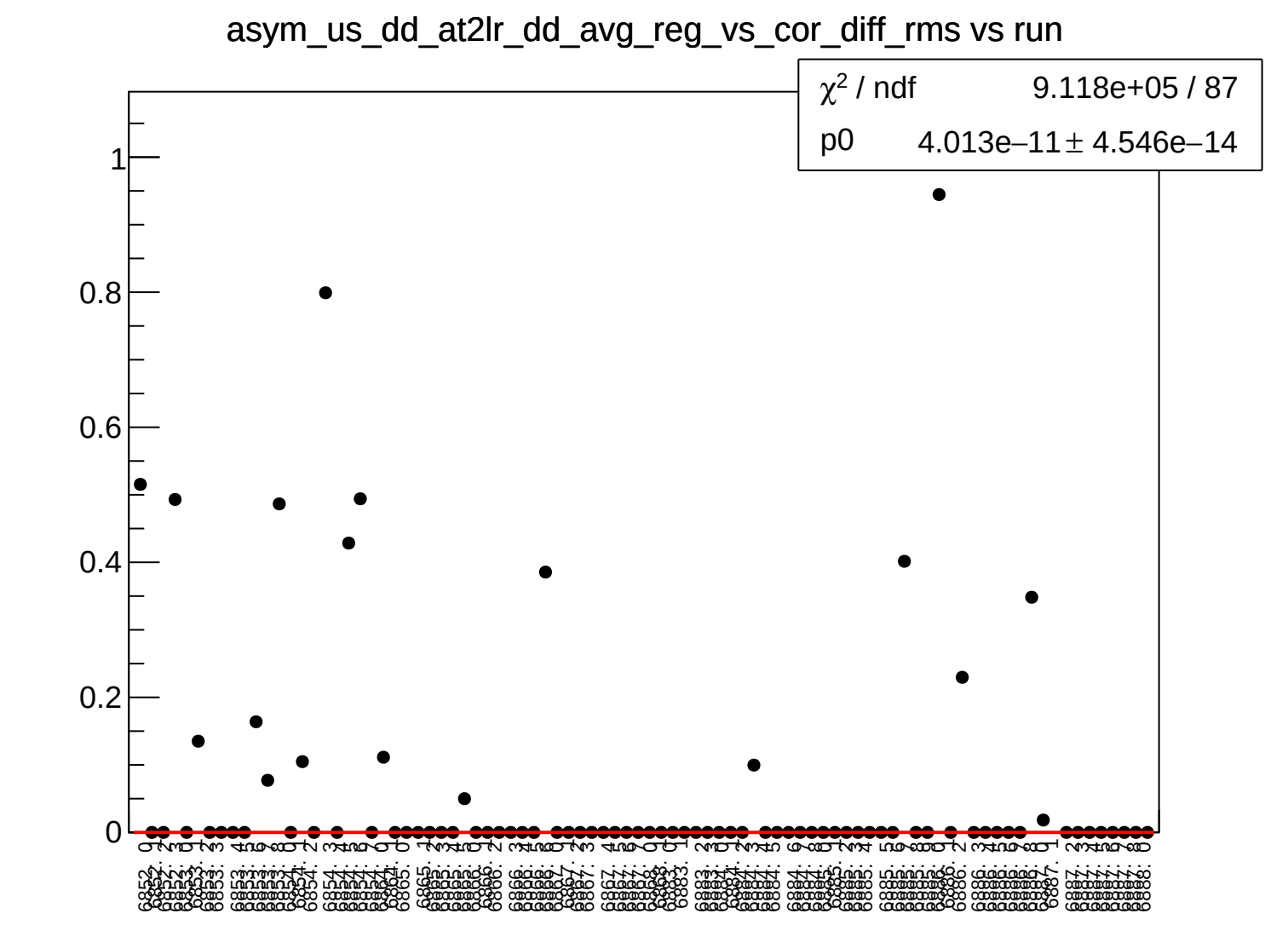

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.851e+04 / 87
p0 1672 ± 1.293
2100
2000
1900
1800
1700
1600
1500
1400

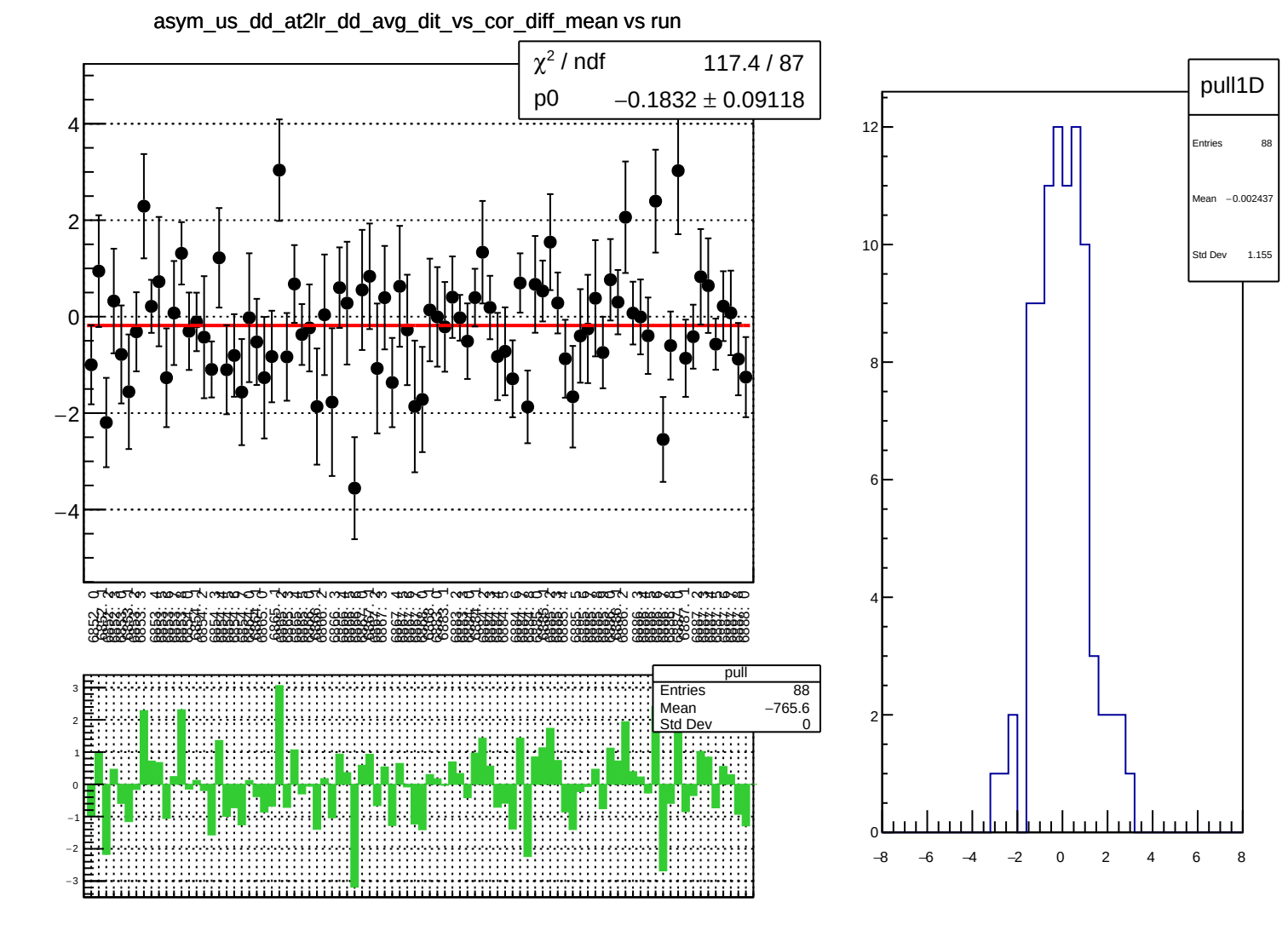

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 87.76 / 87
p0 4465 ± 2935
pull
Entries 88
Mean −165.2
Std Dev 0

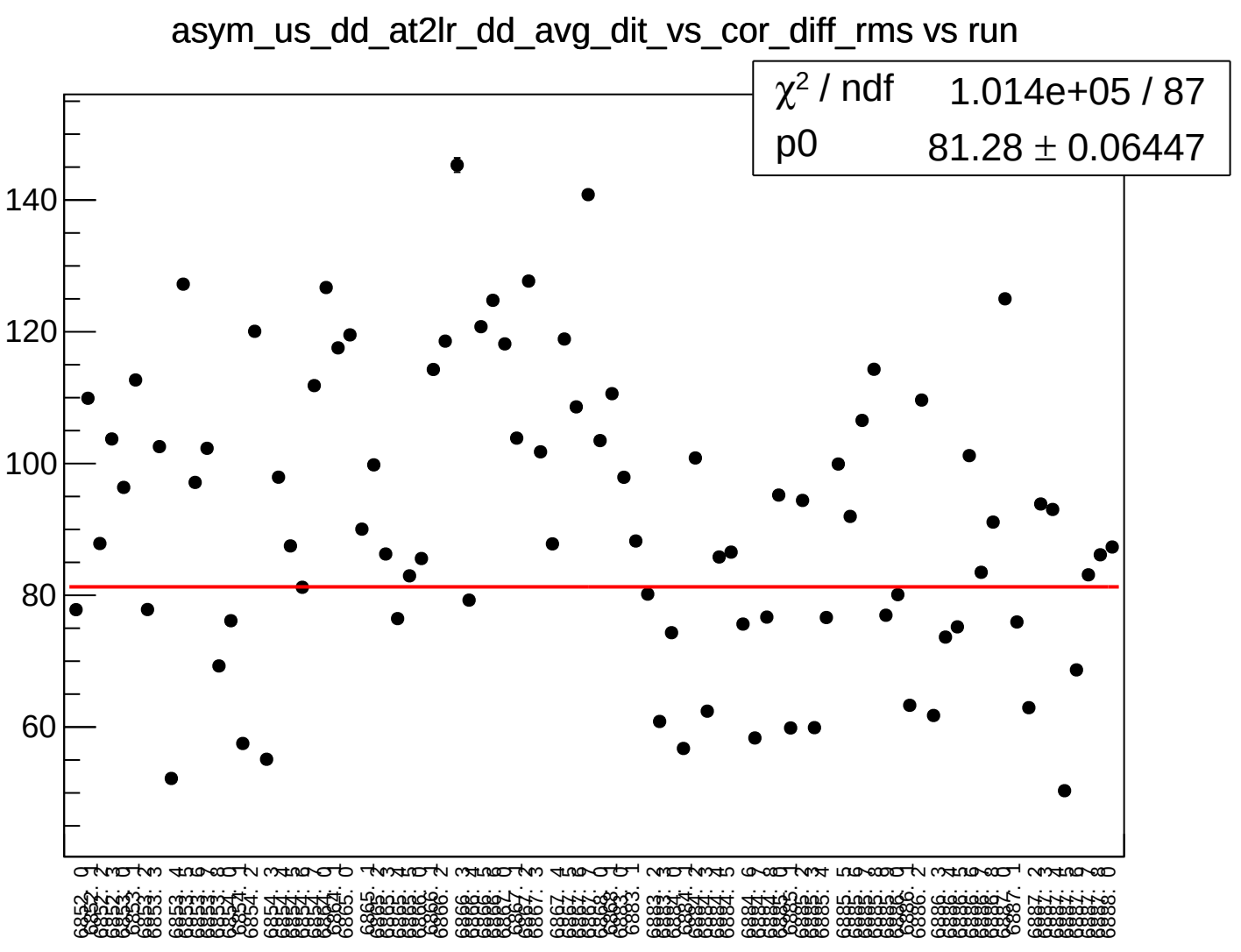

pull1D
Entries 88
Mean −0.008227
Std Dev 0.9986

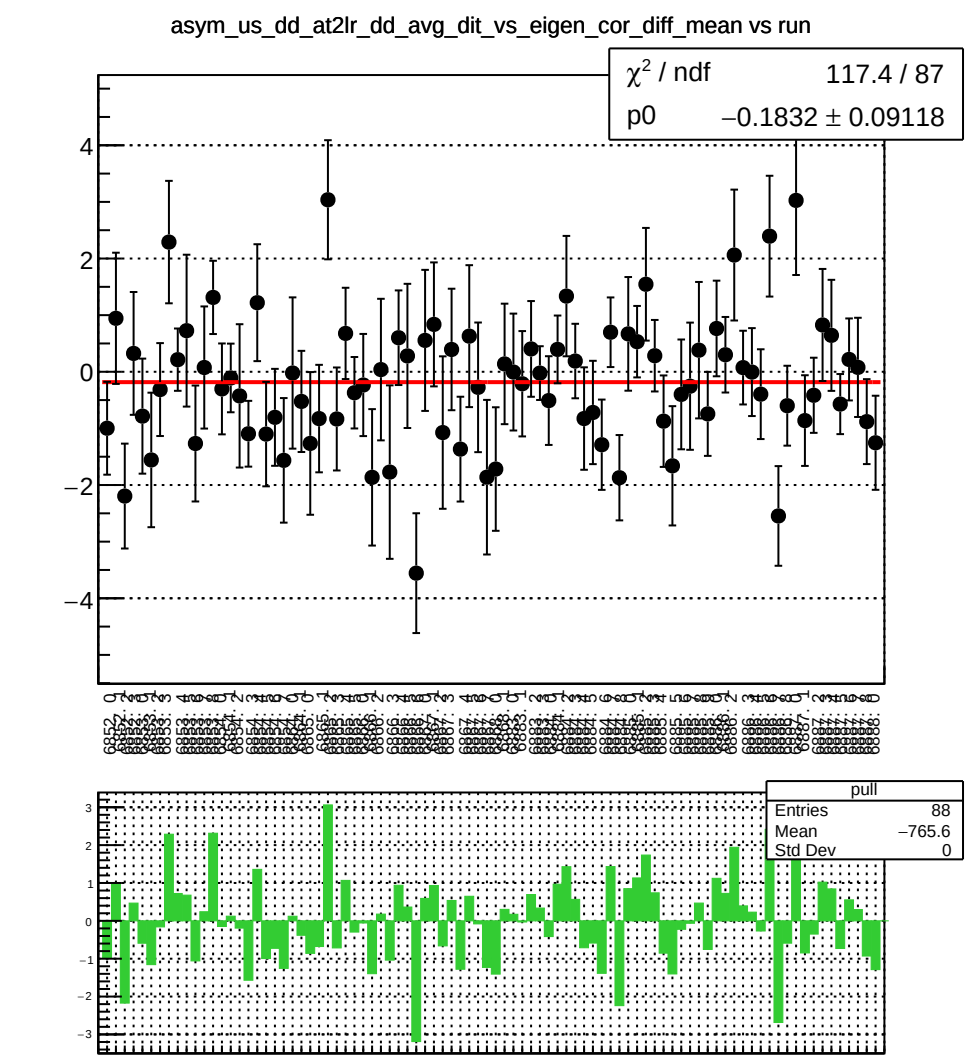

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 2892 / 87
p0 2696 ± 2.075
3000
2900
2800
2700
2600
2500

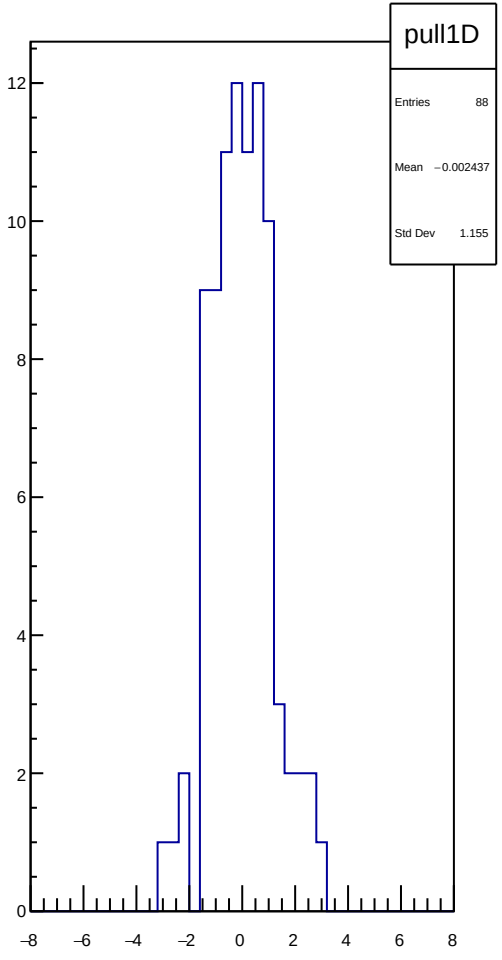

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.07 / 87
p0 −1.235e−14 ± 6.429e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 125.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.05639
Std Dev 0.928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

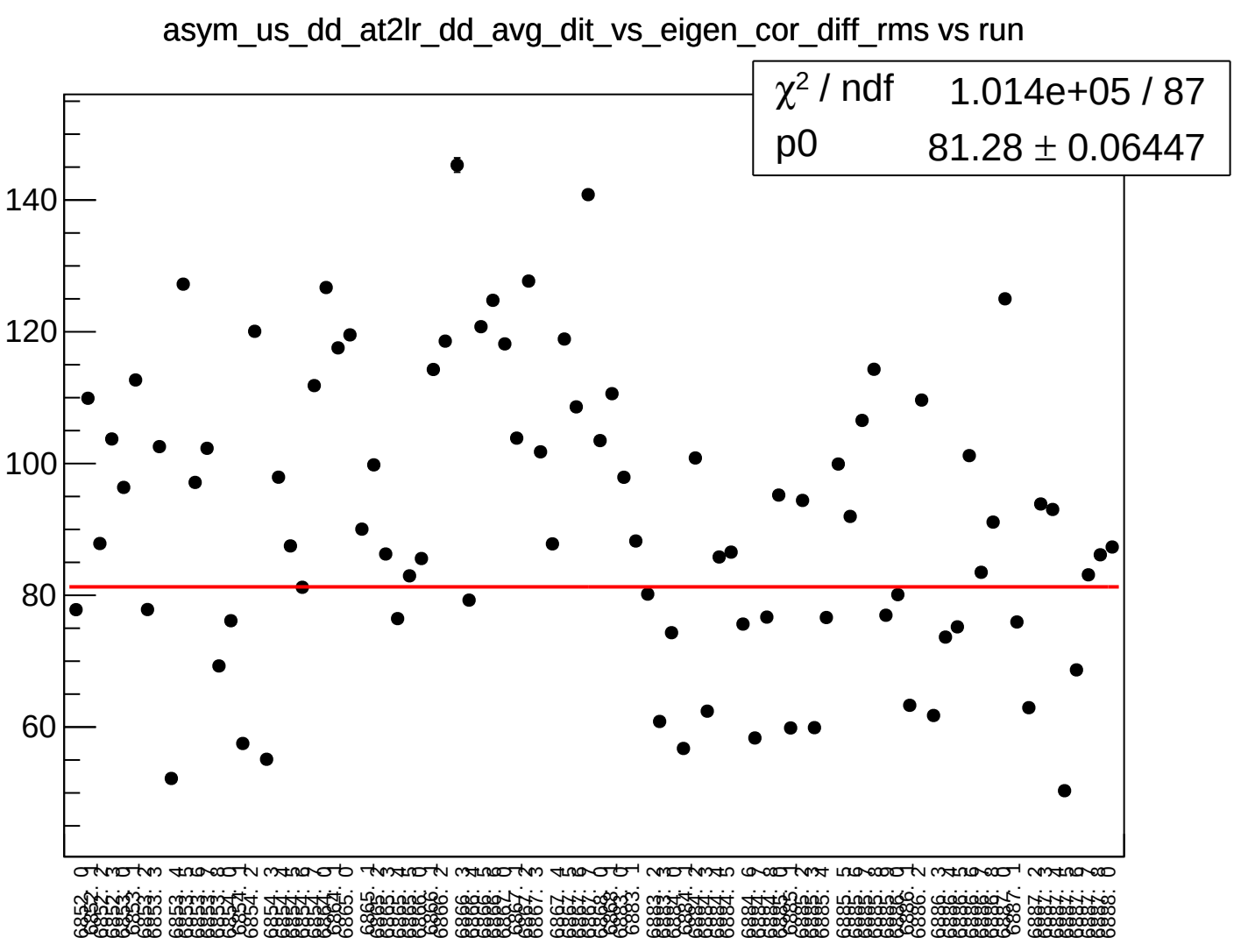

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.118e+05 / 87
p0 4.013e−11 ± 4.546e−14
1
0.8
0.6
0.4
0.2
0

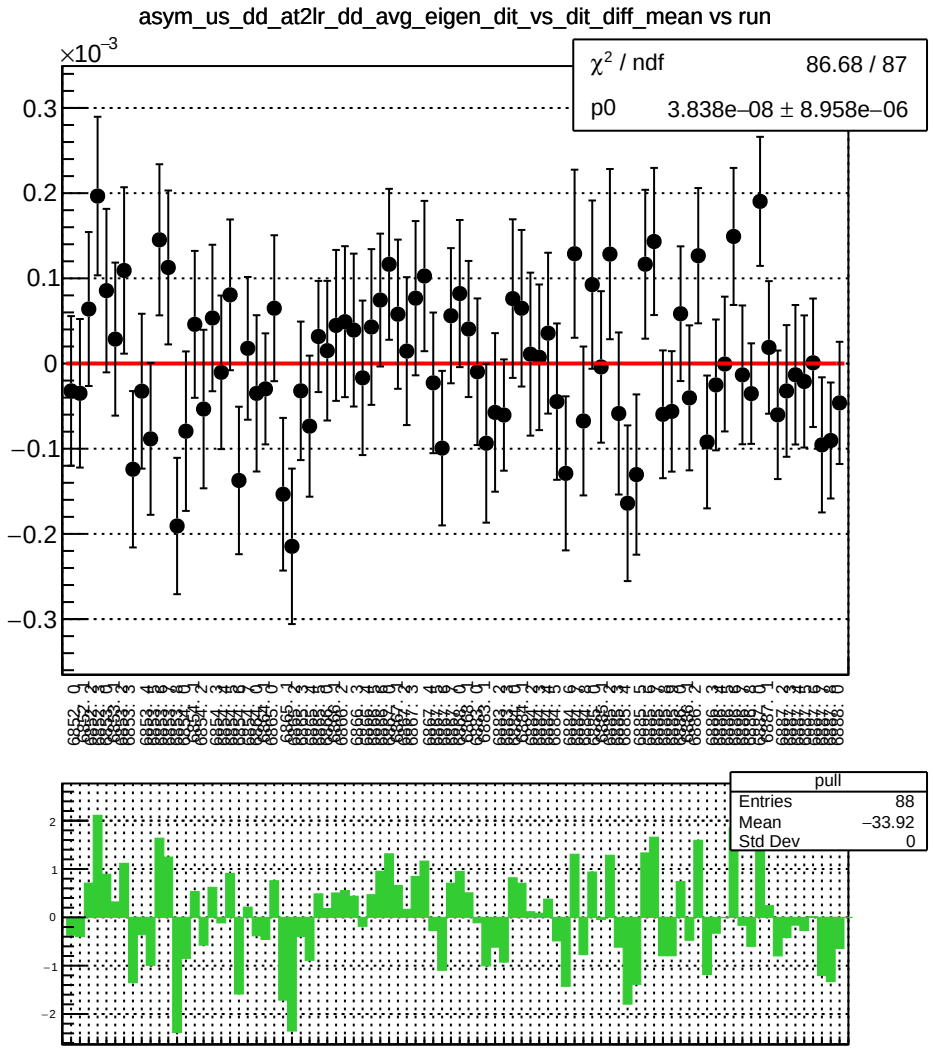

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 117.4 / 87
p0 −0.1832 ± 0.09118
pull
Entries 88
Mean −765.6
Std Dev 0
pull1D
Entries 88
Mean −0.002437
Std Dev 1.155

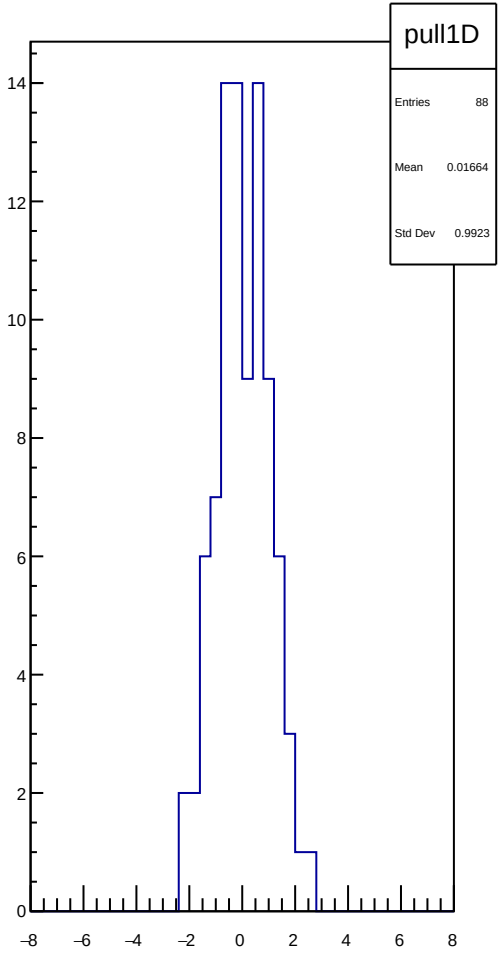

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.014e+05 / 87
p0 81.28 ± 0.06447
140
120
100
80
60

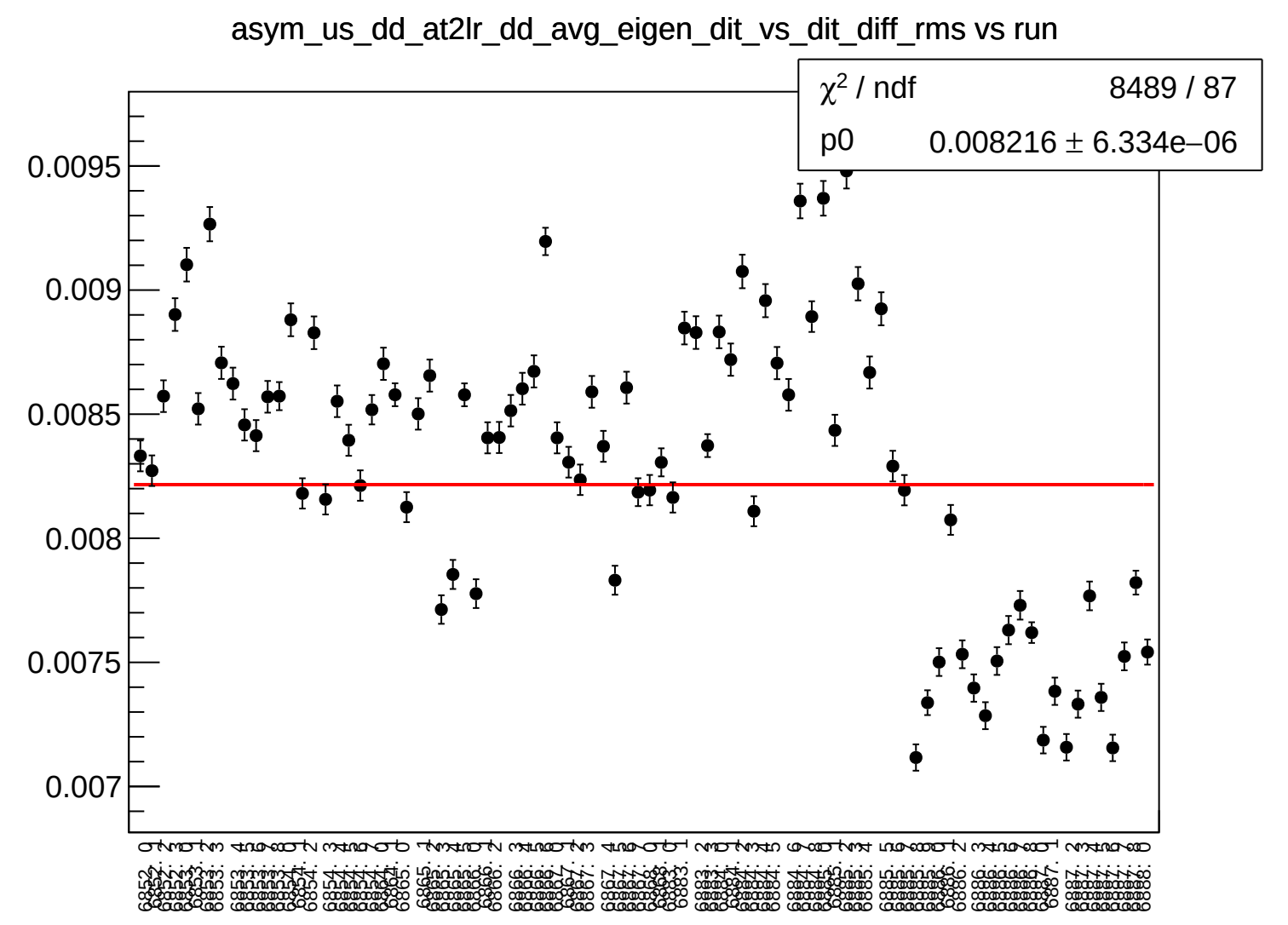

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.4 / 87
p0 −0.1832 ± 0.09118
pull
Entries 88
Mean −765.6
Std Dev 0

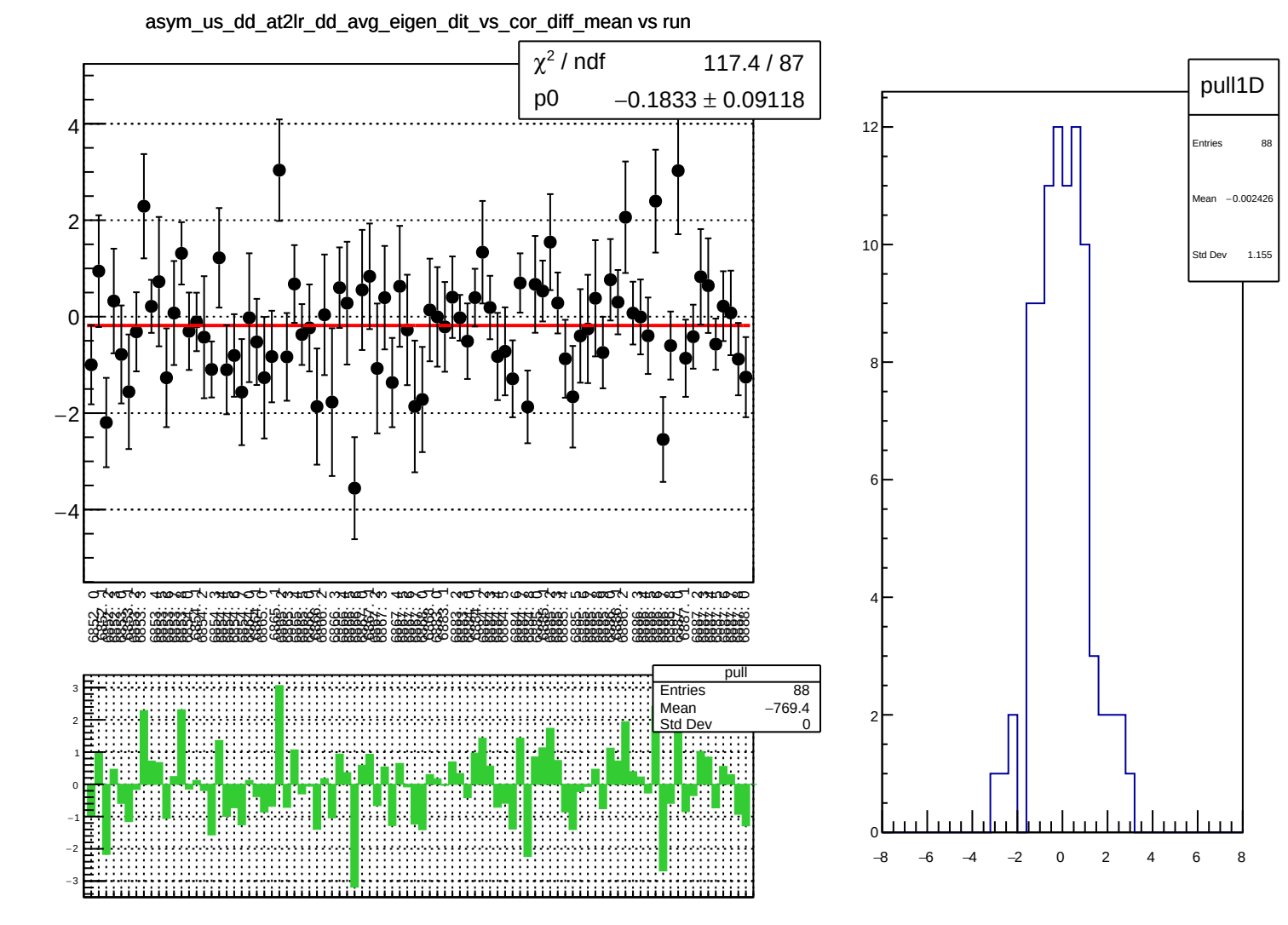

pull1D
Entries 88
Mean −0.002437
Std Dev 1.155

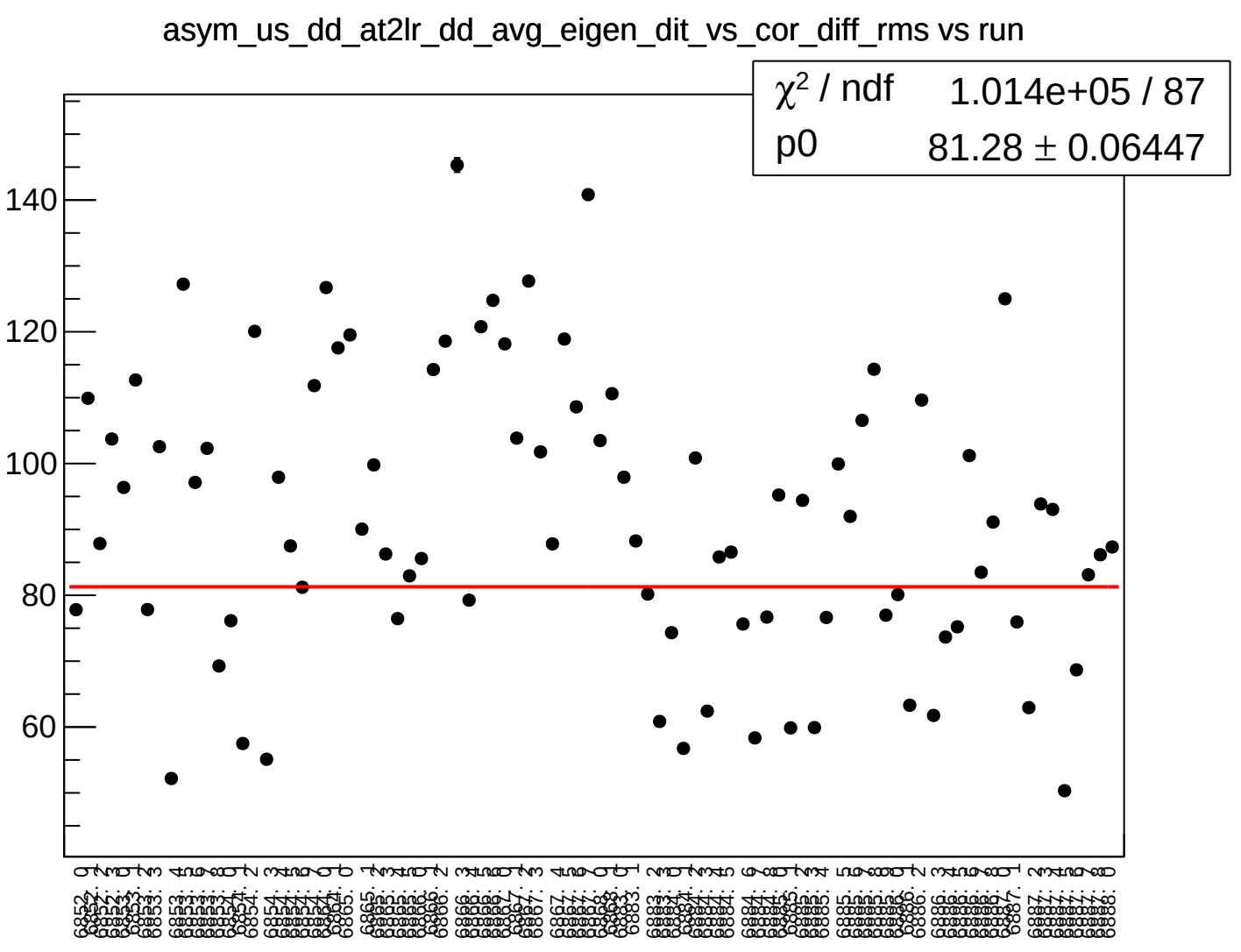

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.014e+05 / 87
p0 81.28 ± 0.06447
140
120
100
80
60

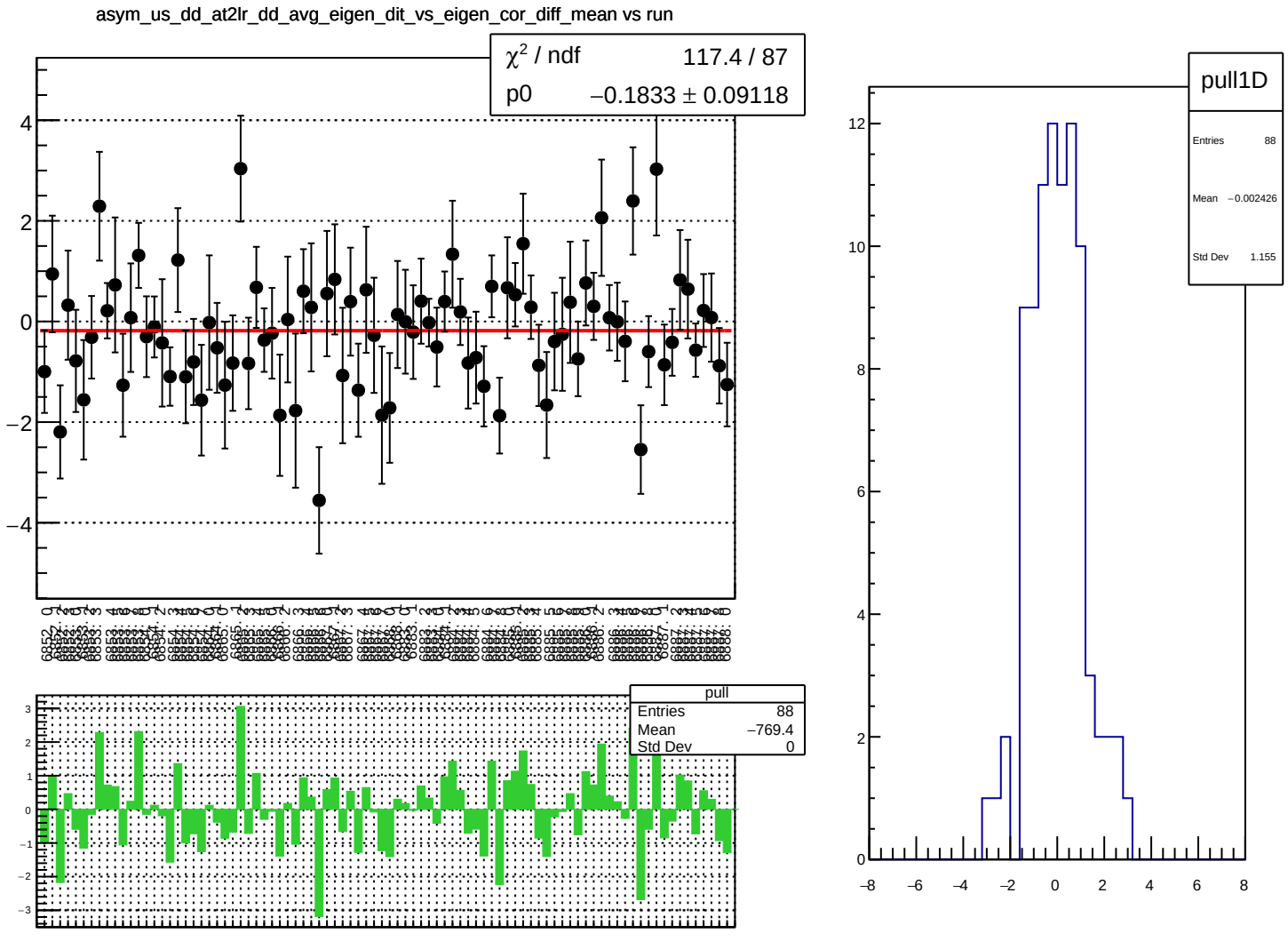

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.68 / 87
p0 3.838e−08 ± 8.958e−06
pull
Entries 88
Mean −33.92
Std Dev 0

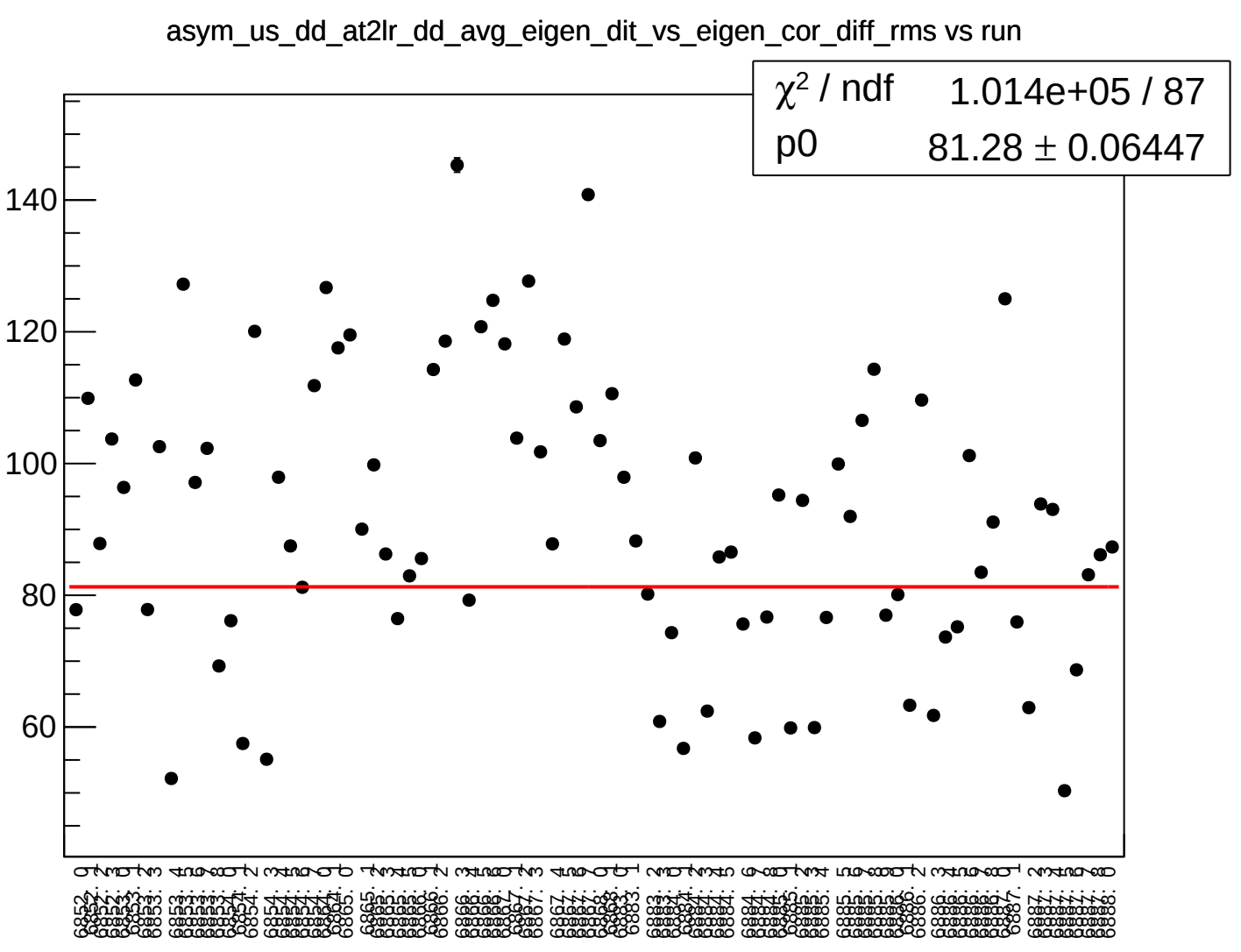

pull1D
Entries 88
Mean 0.01664
Std Dev 0.9923

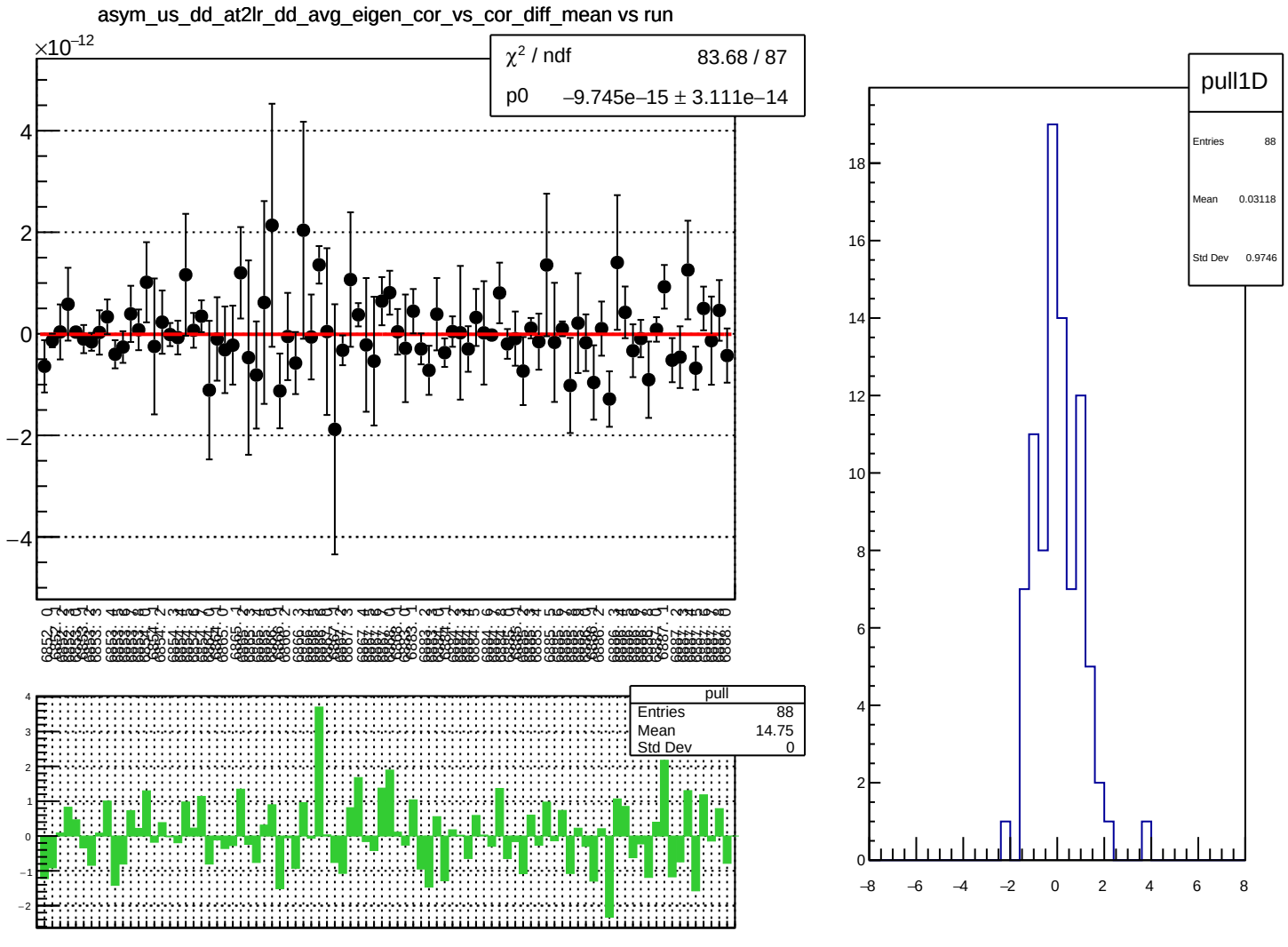

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8489 / 87
p0 0.008216 ± 6.334e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007

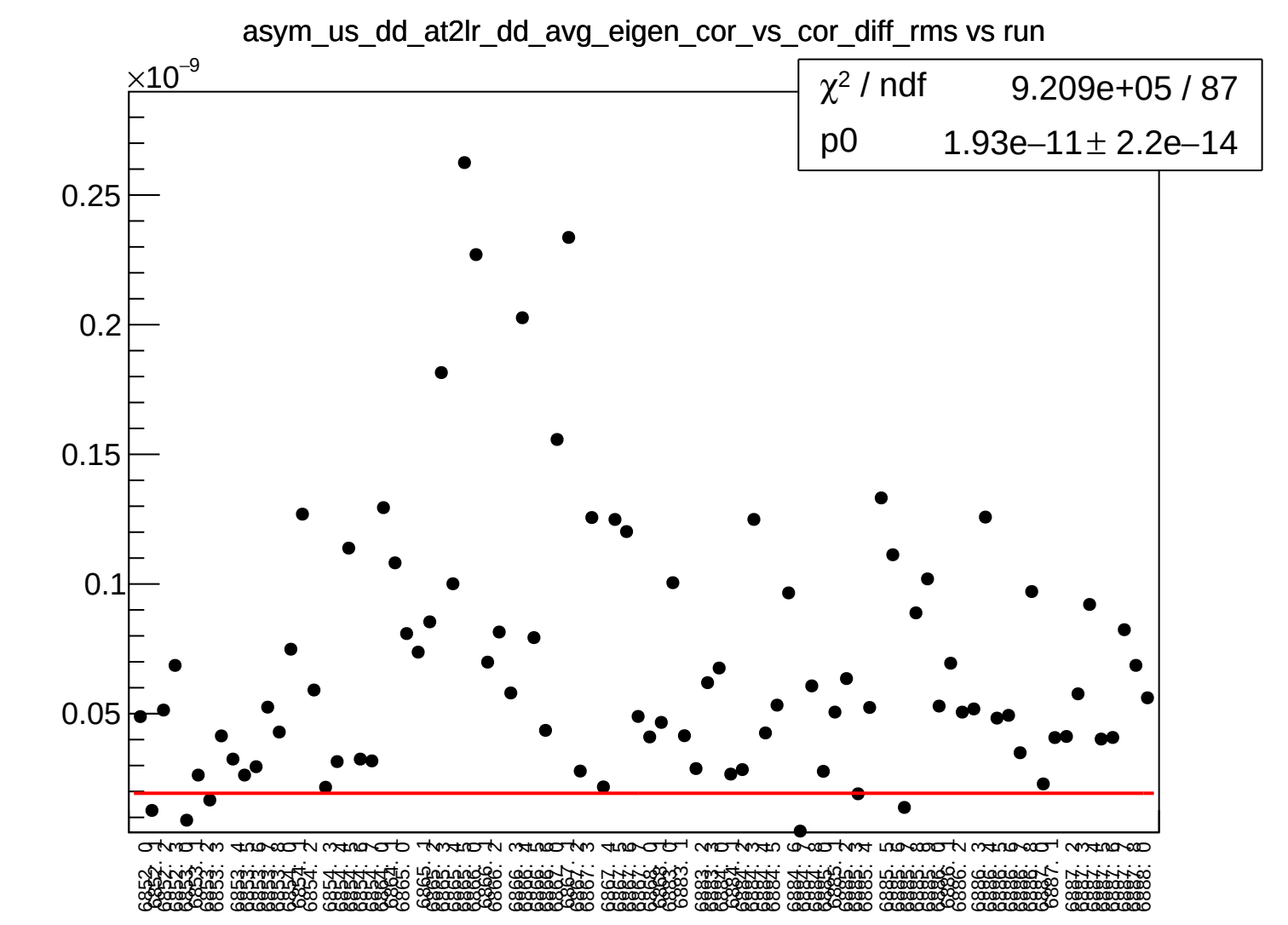

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 117.4 / 87
p0 −0.1833 ± 0.09118
pull
Entries 88
Mean −769.4
Std Dev 0
pull1D
Entries 88
Mean −0.002426
Std Dev 1.155

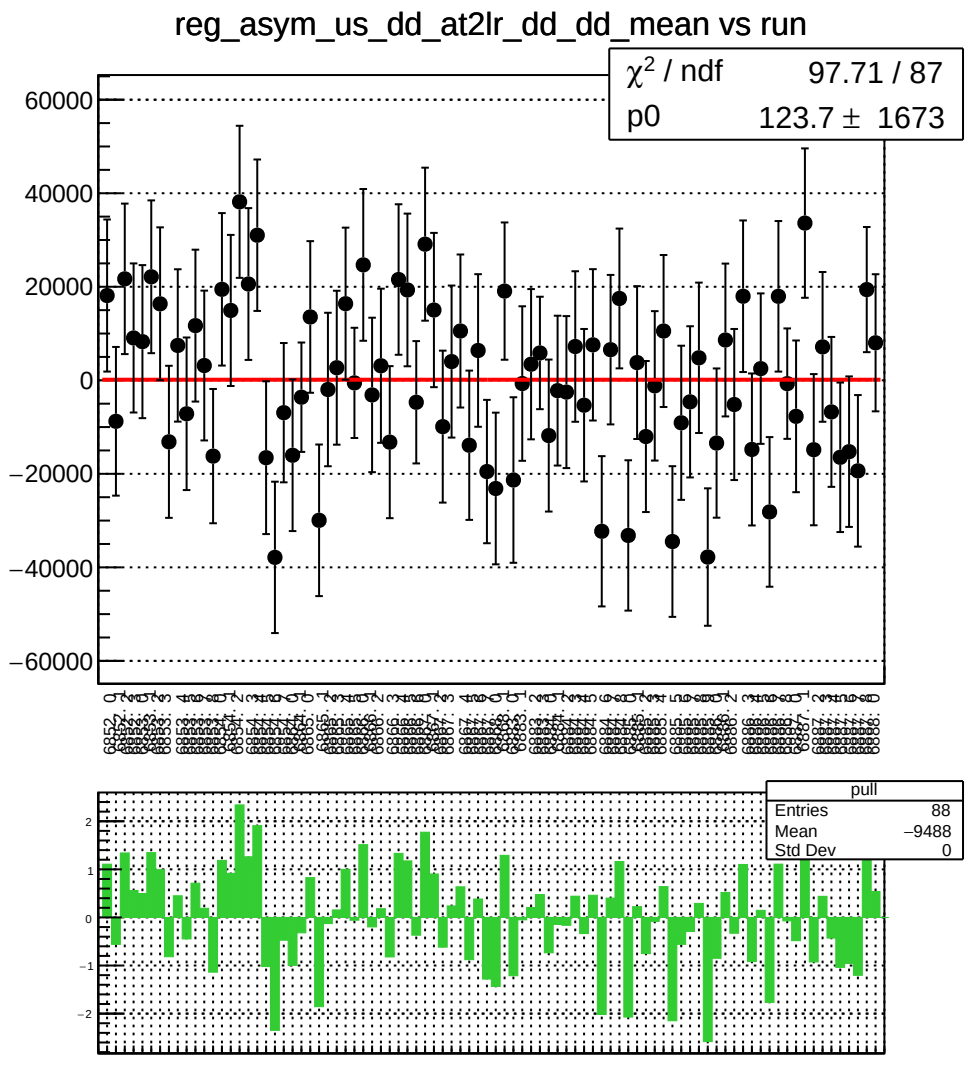

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.014e+05 / 87
p0 81.28 ± 0.06447
140
120
100
80
60

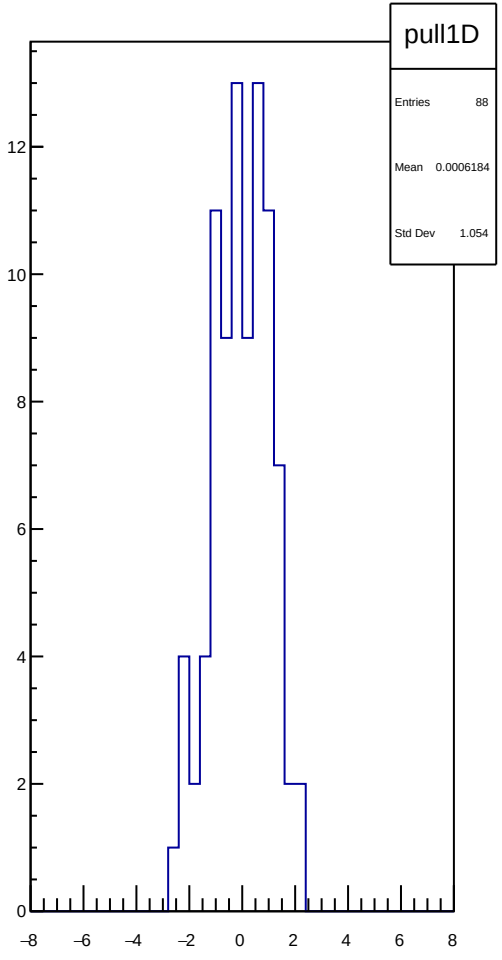

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.4 / 87
p0 −0.1833 ± 0.09118
pull
Entries 88
Mean −769.4
Std Dev 0
pull1D
Entries 88
Mean −0.002426
Std Dev 1.155

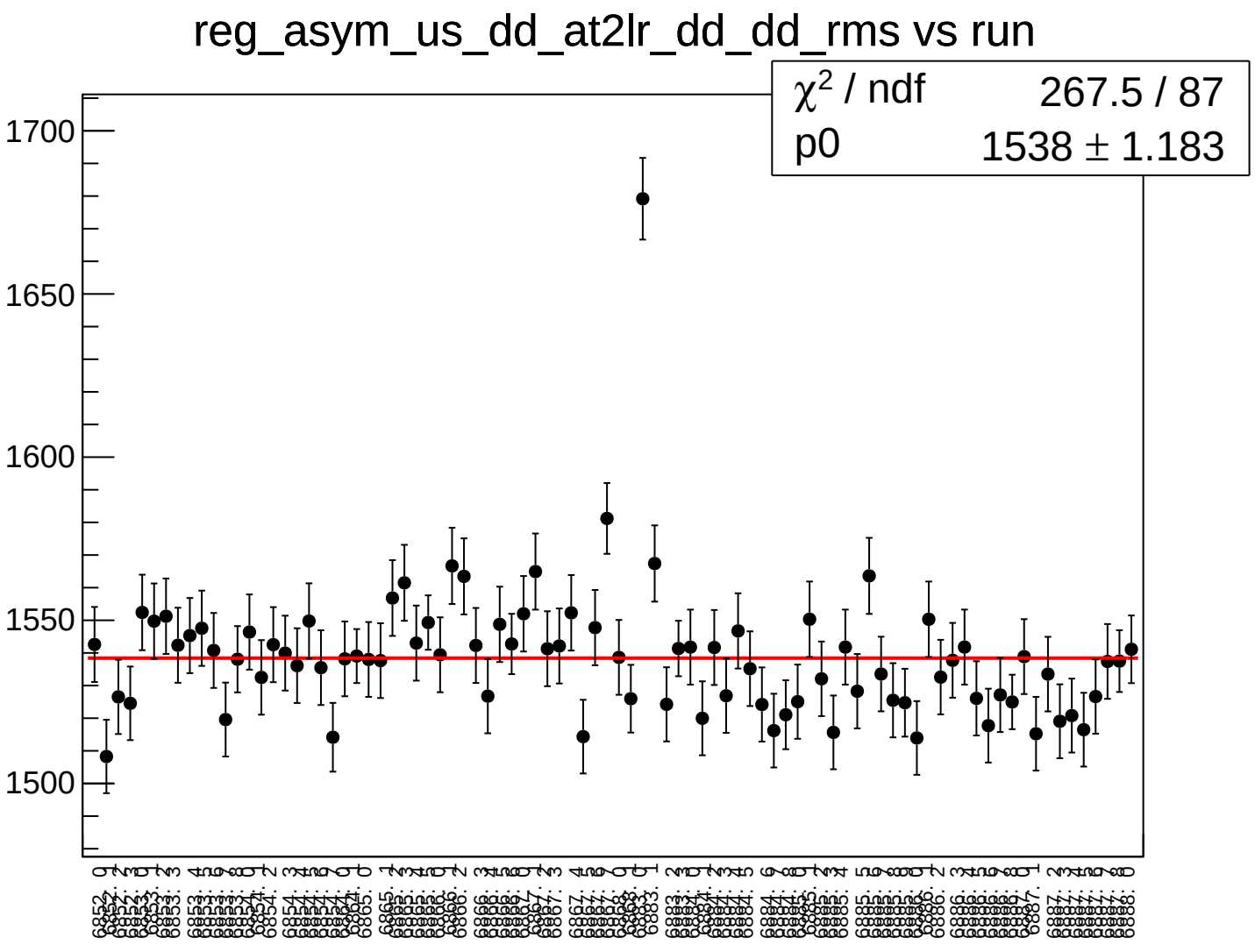

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.014e+05 / 87
p0 81.28 ± 0.06447
140
120
100
80
60

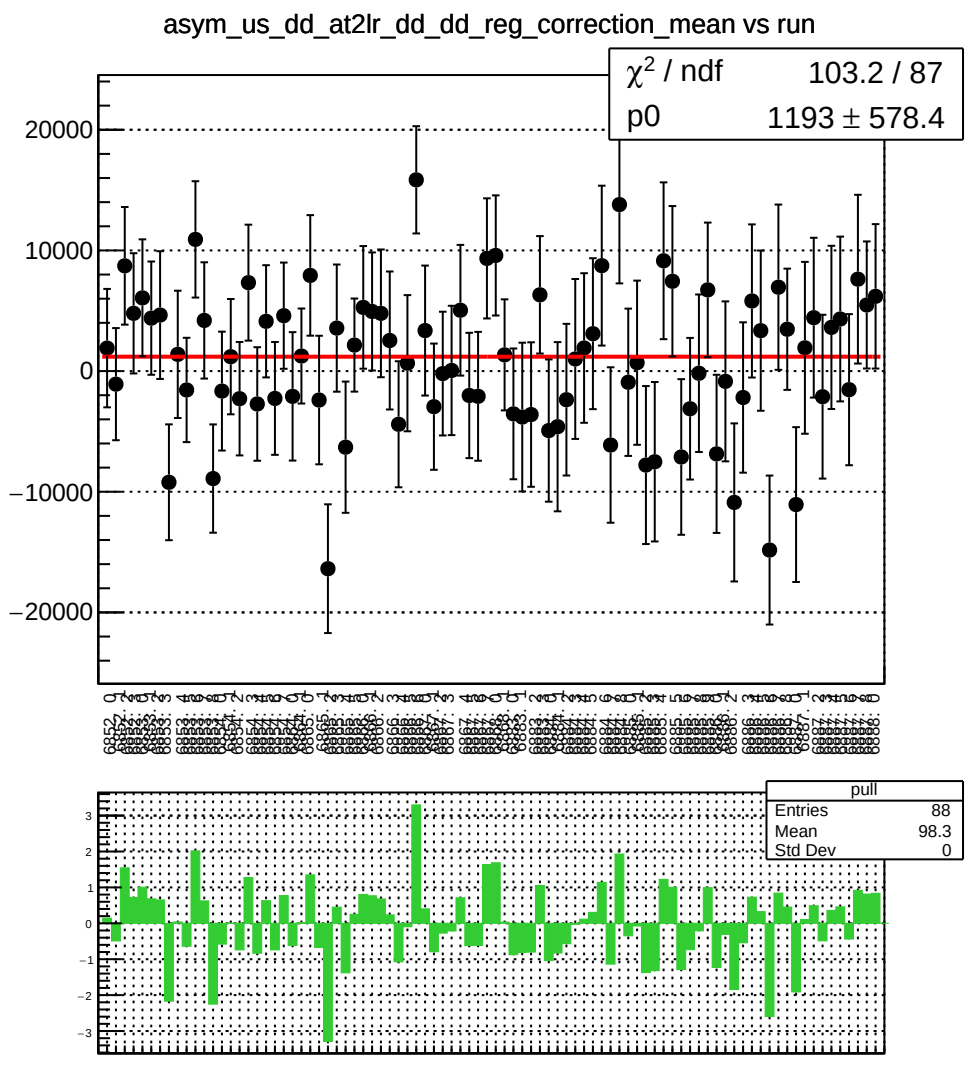

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.68 / 87
p0 −9.745e−15 ± 3.111e−14
pull
Entries 88
Mean 14.75
Std Dev 0
pull1D
Entries 88
Mean 0.03118
Std Dev 0.9746

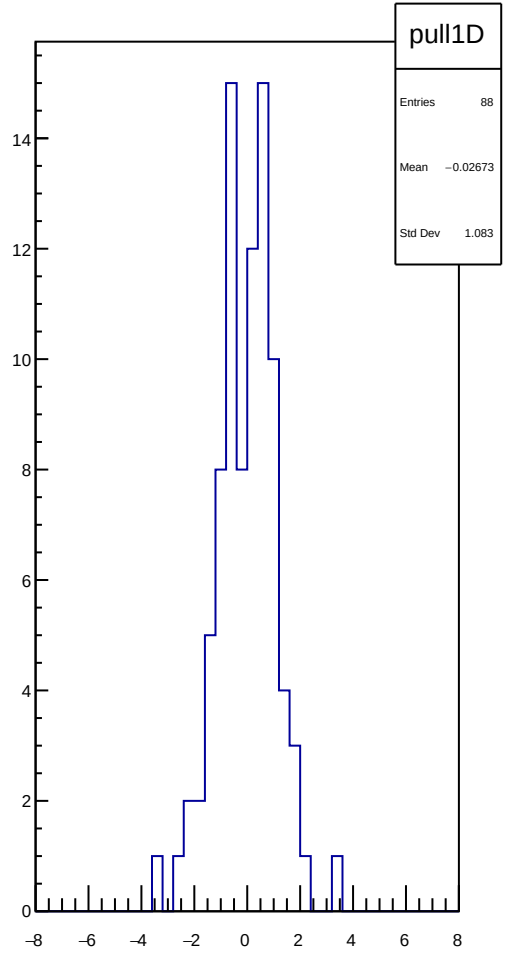

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.209e+05 / 87
p0 1.93e−11 ± 2.2e−14
0.25
0.2
0.15
0.1
0.05

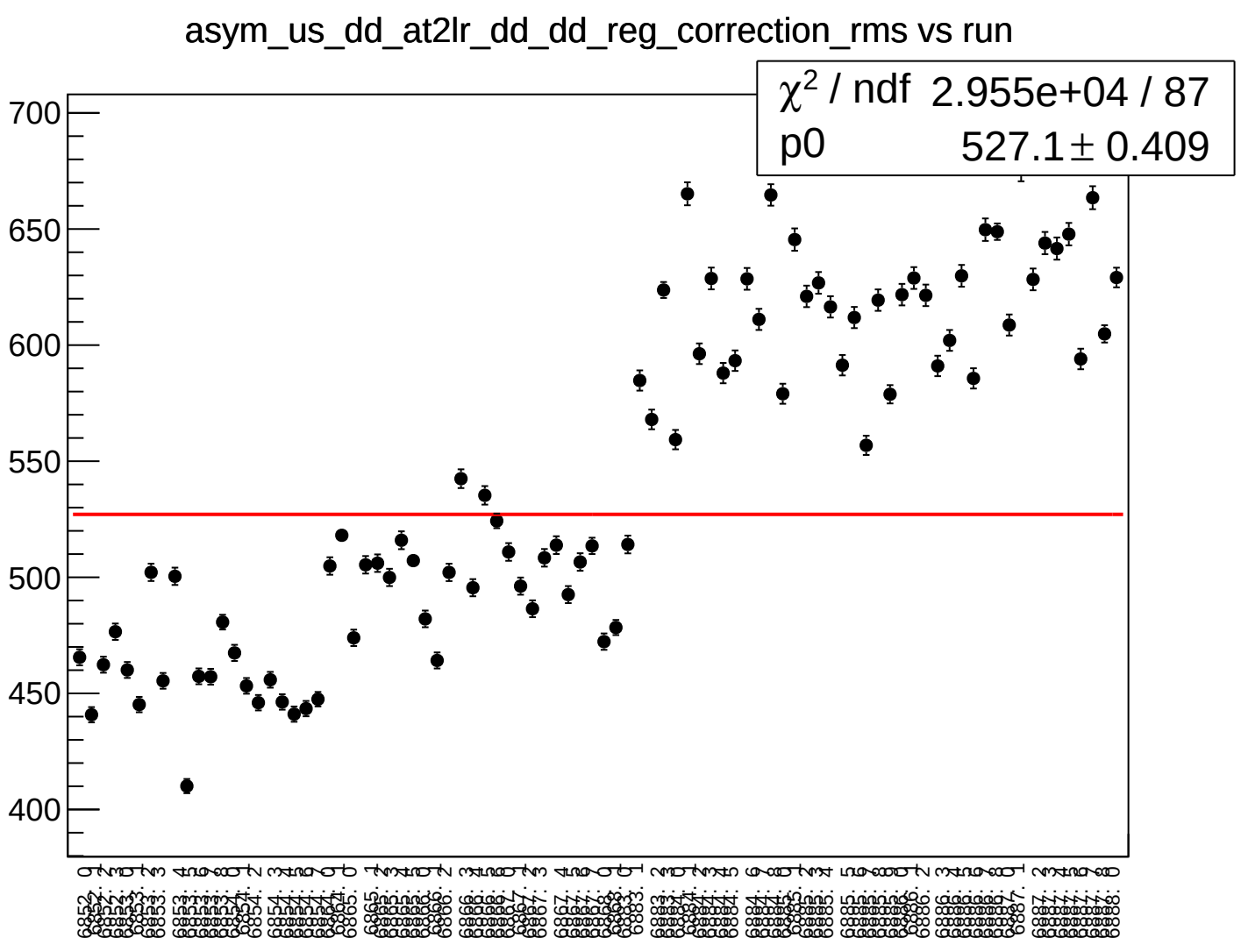

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 97.71 / 87
p0 123.7 ± 1673
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −9488
Std Dev 0
2
1
0
−1
−2

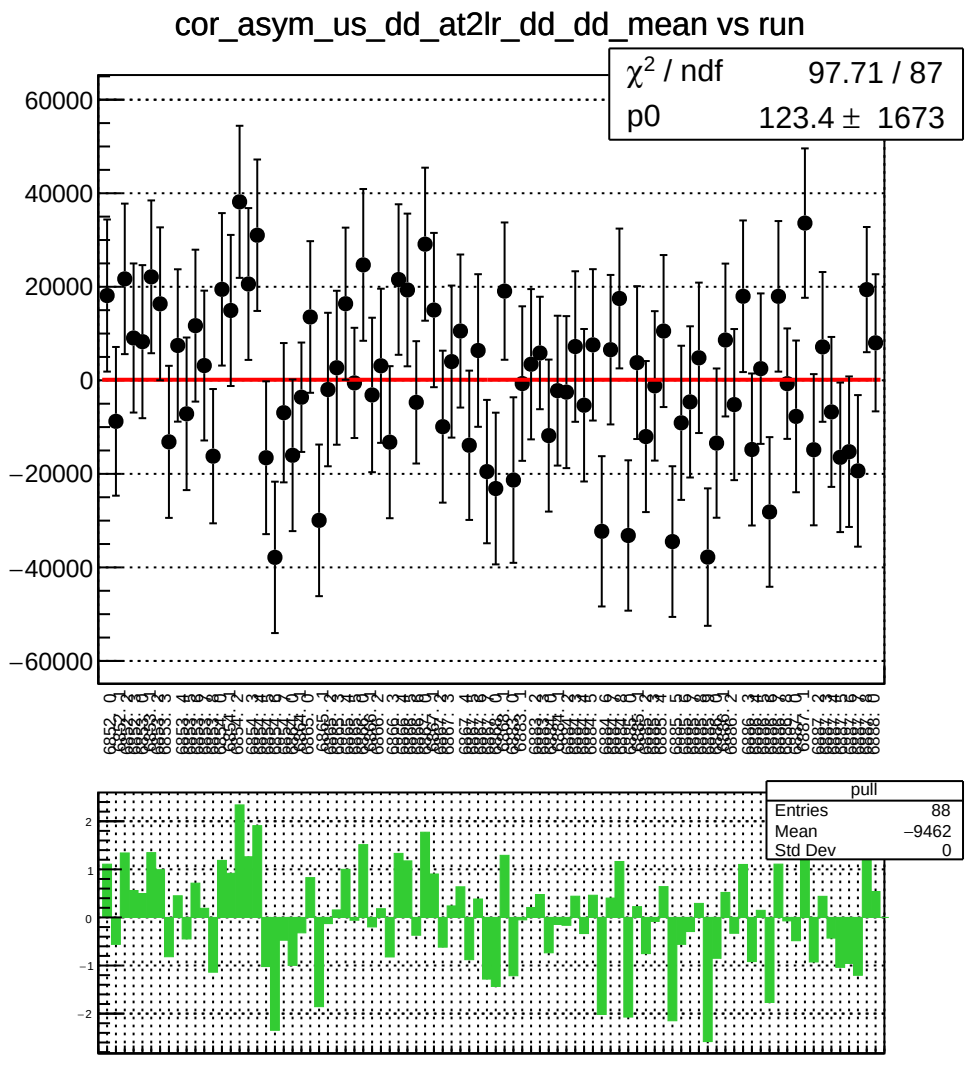

pull1D
Entries 88
Mean 0.0006184
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

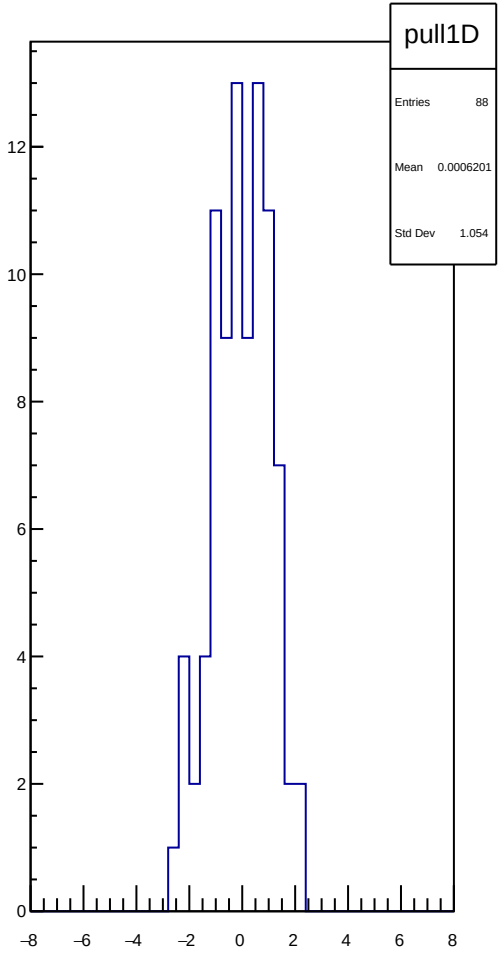

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 267.5 / 87
p0 1538 ± 1.183
1700
1650
1600
1550
1500

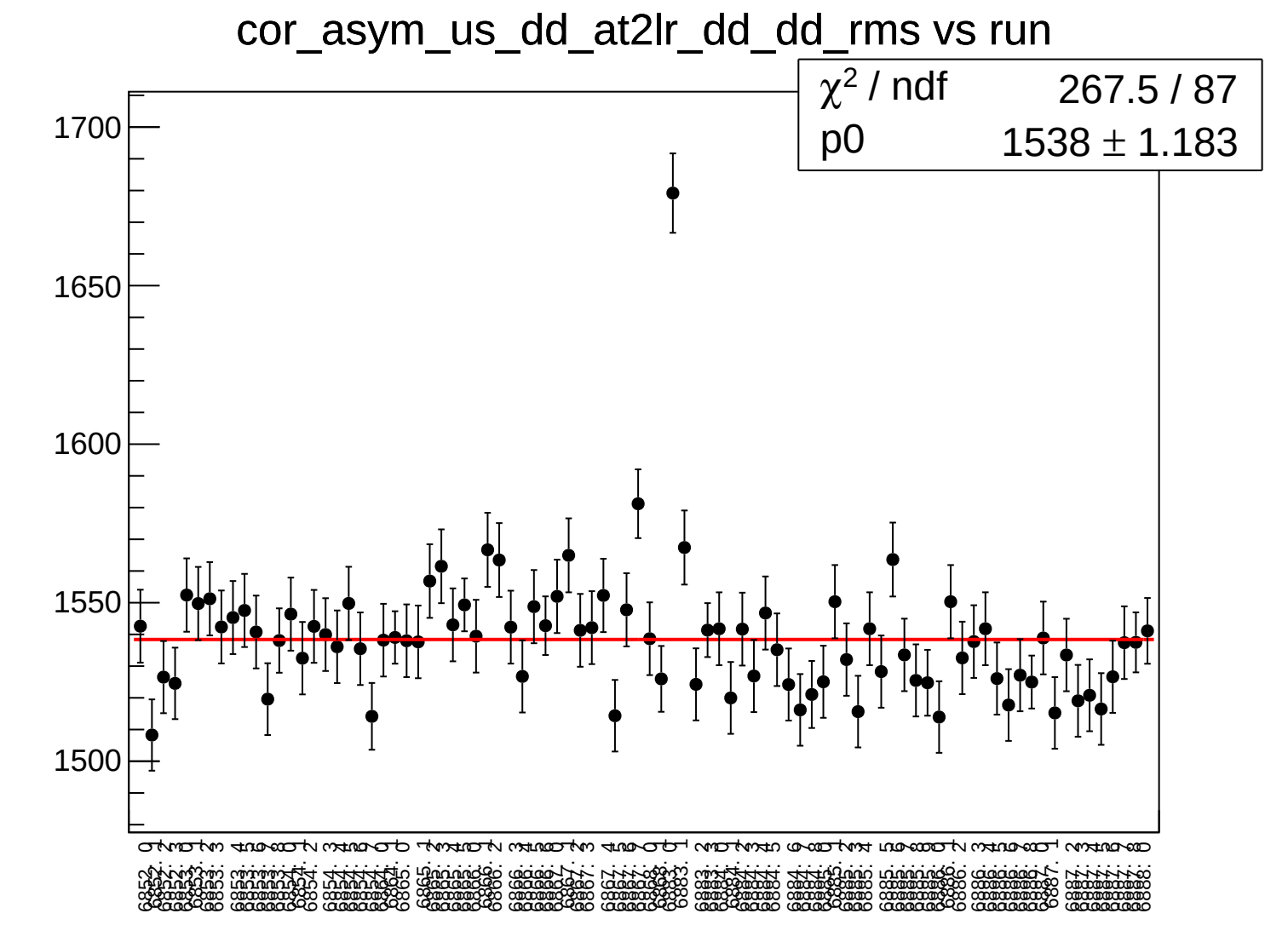

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 103.2 / 87
p0 1193 ± 578.4
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 98.3
Std Dev 0
3
2
1
0
−1
−2
−3

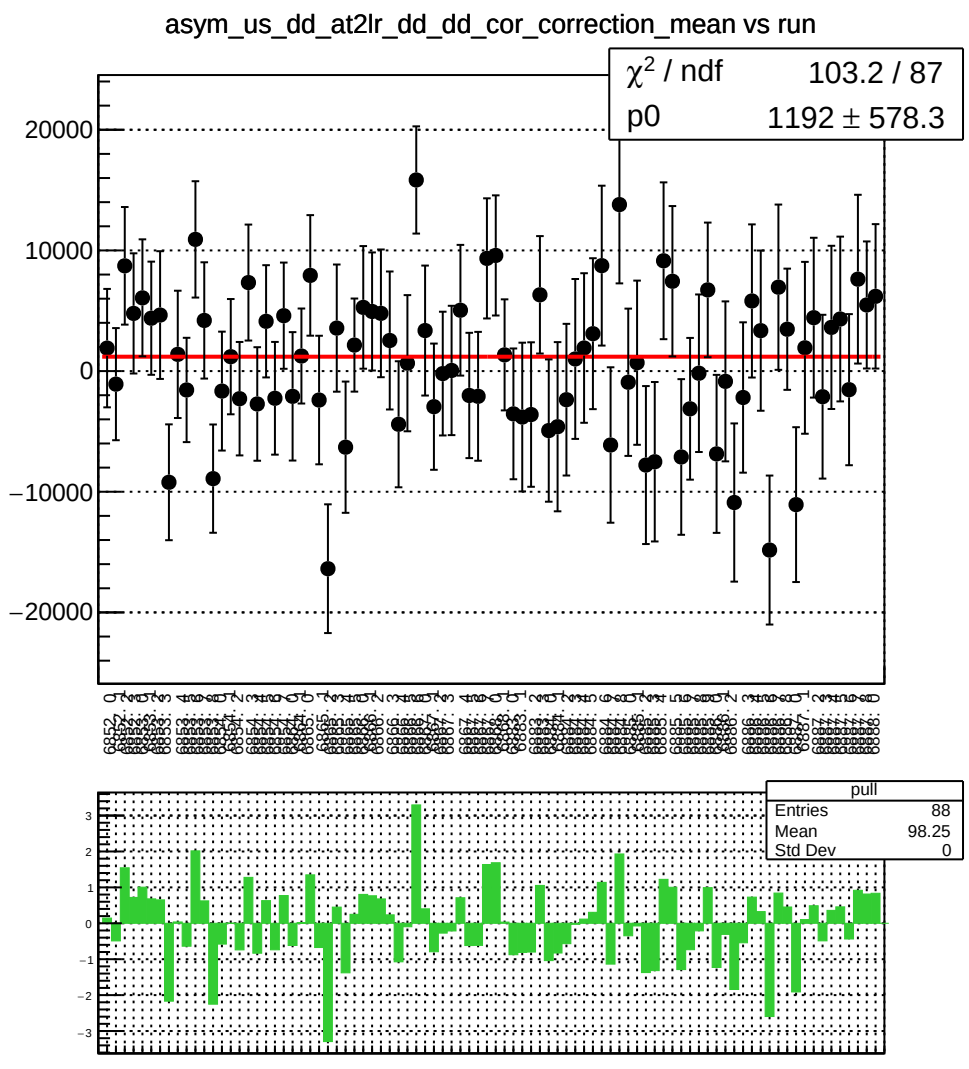

pull1D
Entries 88
Mean −0.02673
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

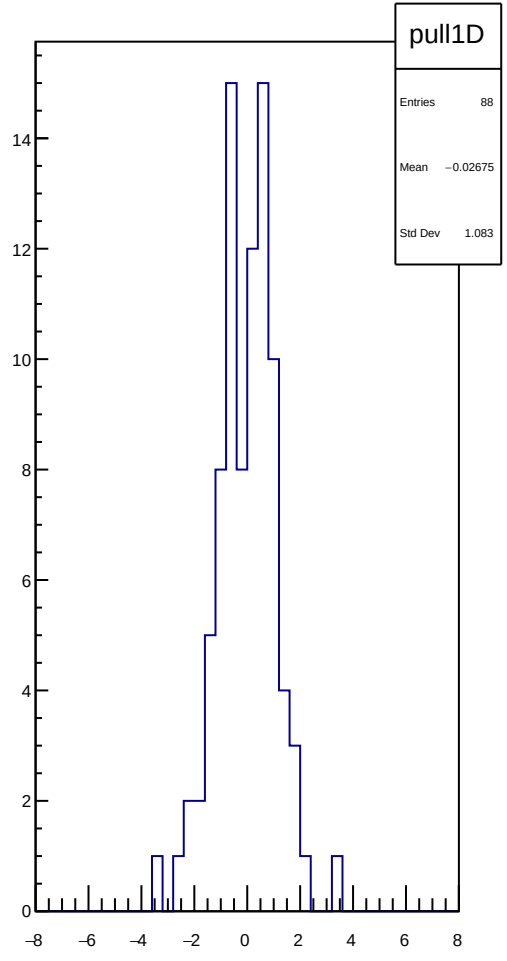

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.955e+04 / 87
p0 527.1 ± 0.409
700
650
600
550
500
450
400

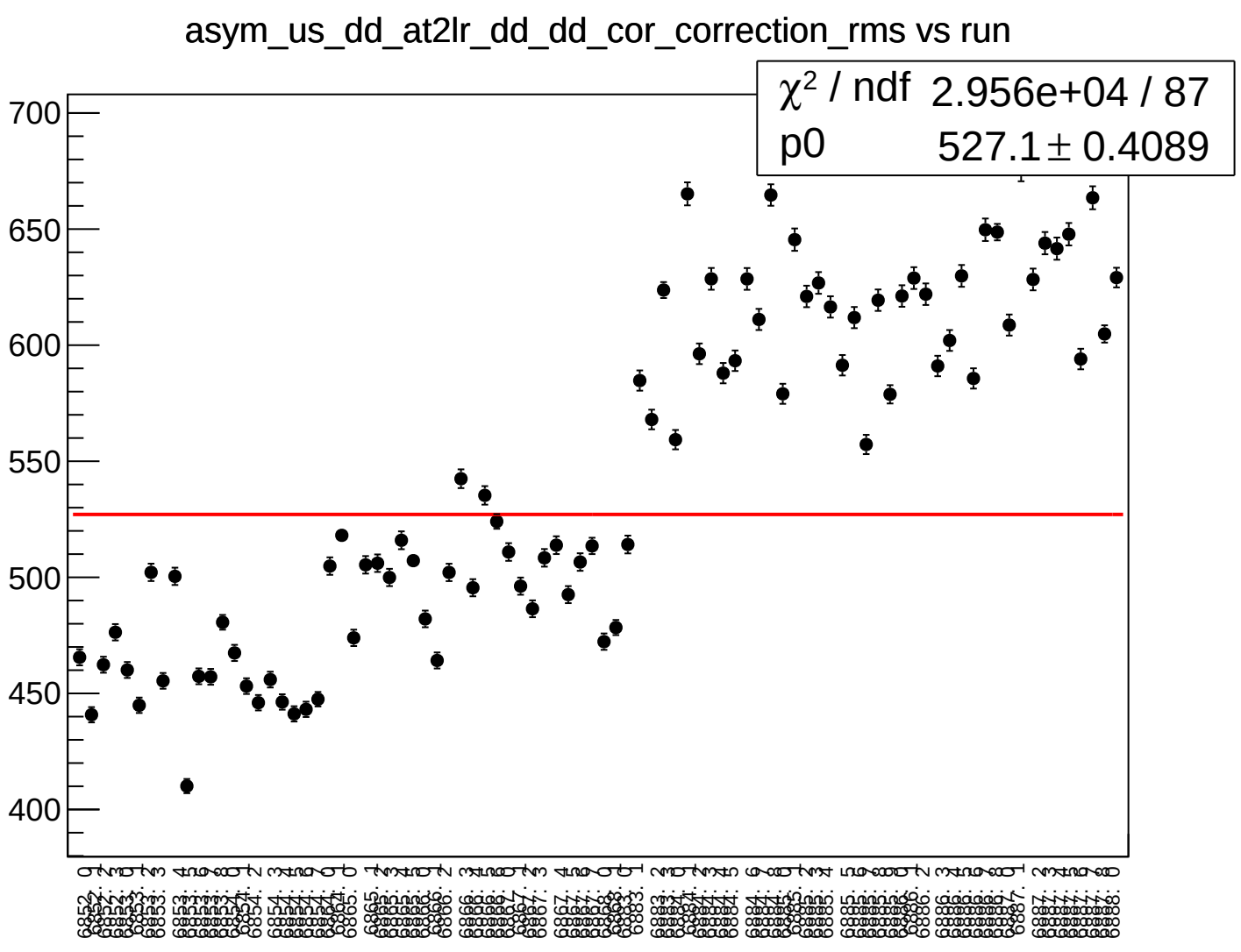

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 97.71 / 87
p0 123.4 ± 1673
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −9462
Std Dev 0
2
1
0
−1
−2

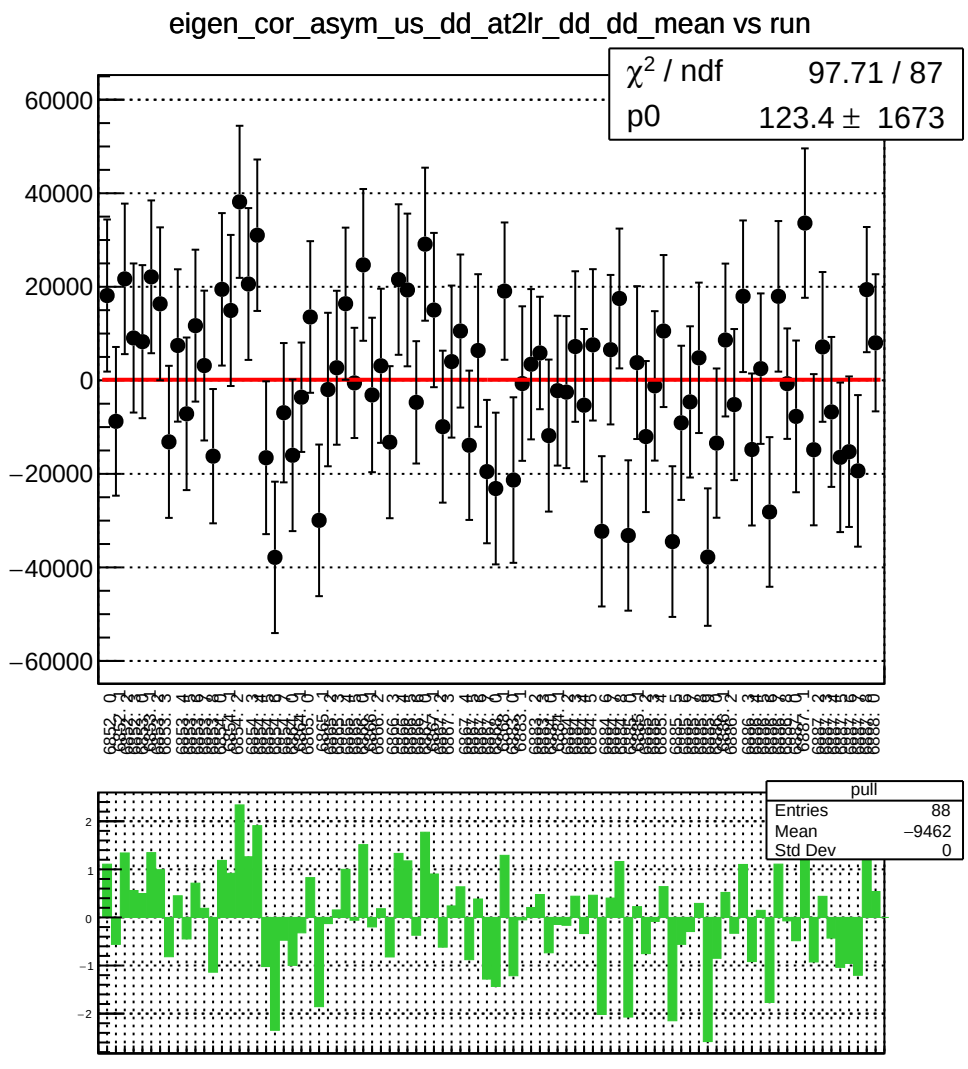

pull1D
Entries 88
Mean 0.0006201
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

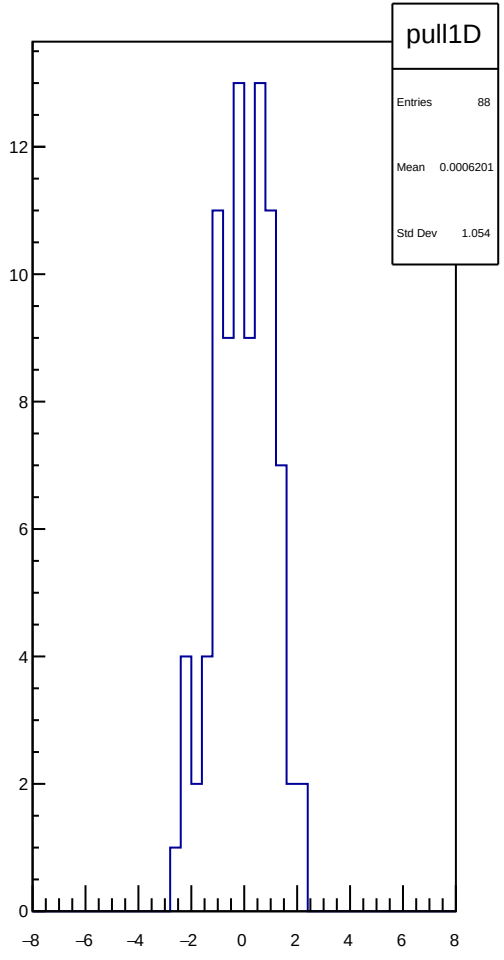

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 267.5 / 87
p0 1538 ± 1.183
1700
1650
1600
1550
1500

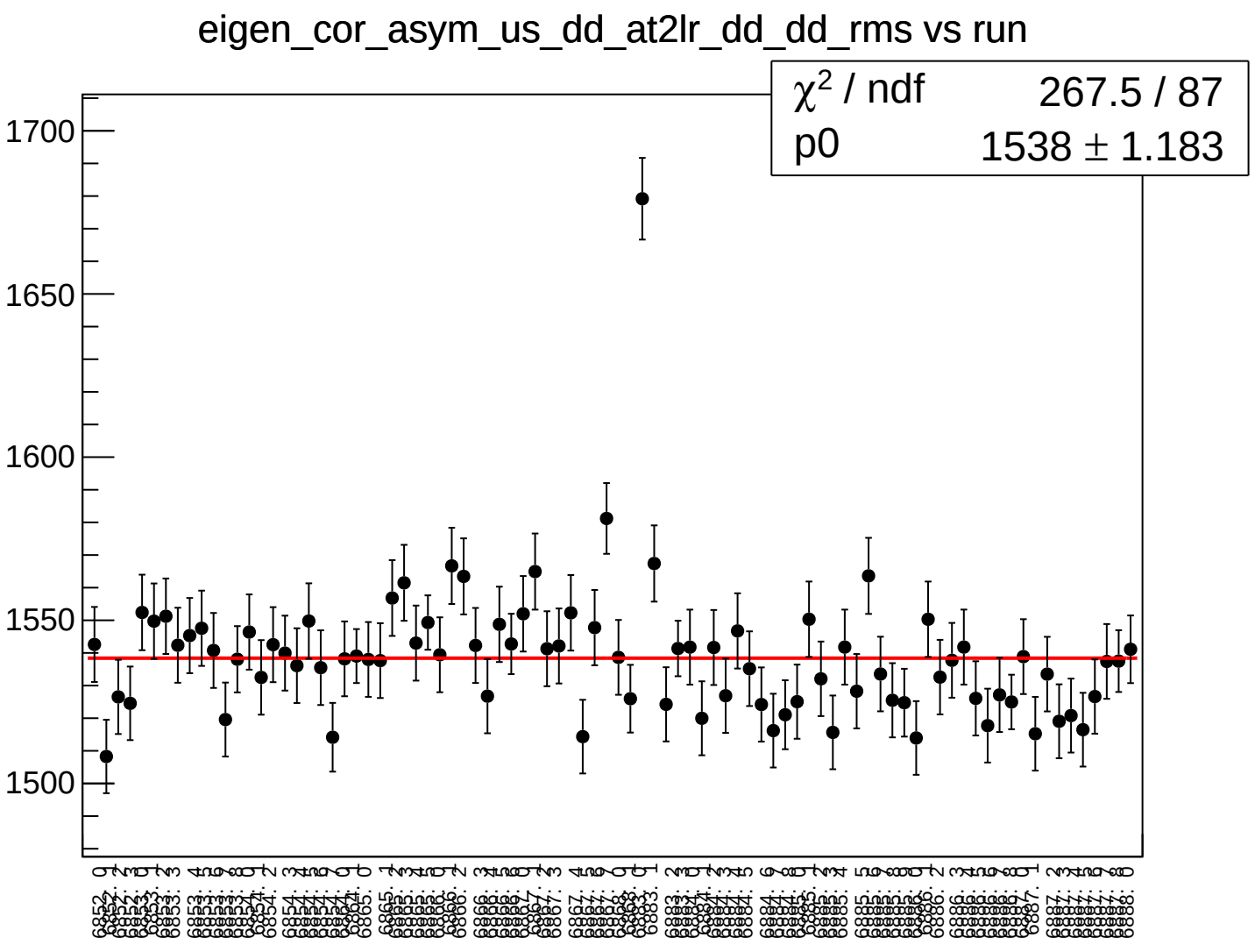

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 103.2 / 87
p0 1192 ± 578.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 98.25
Std Dev 0
3
2
1
0
−1
−2
−3

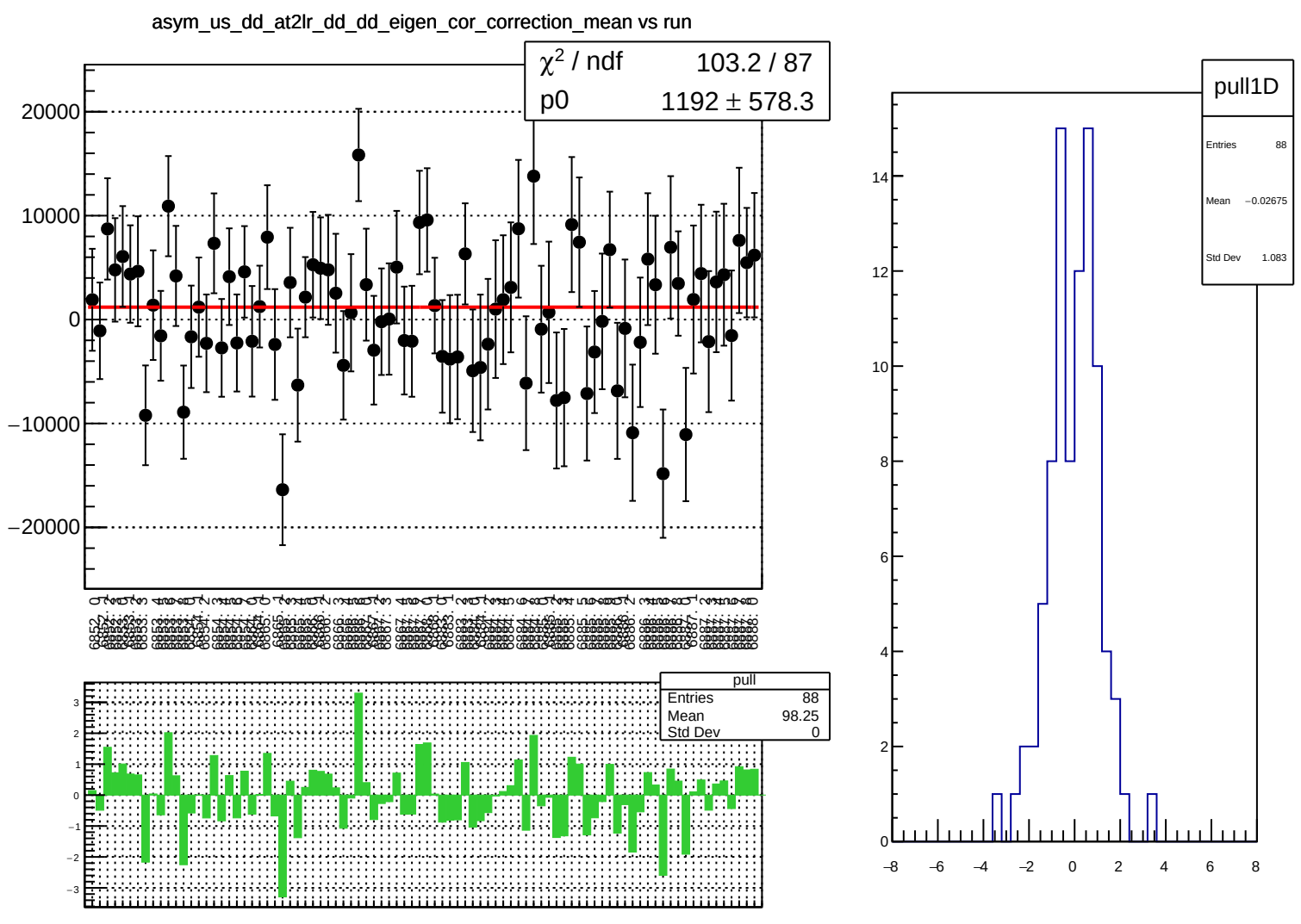

pull1D
Entries 88
Mean −0.02675
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

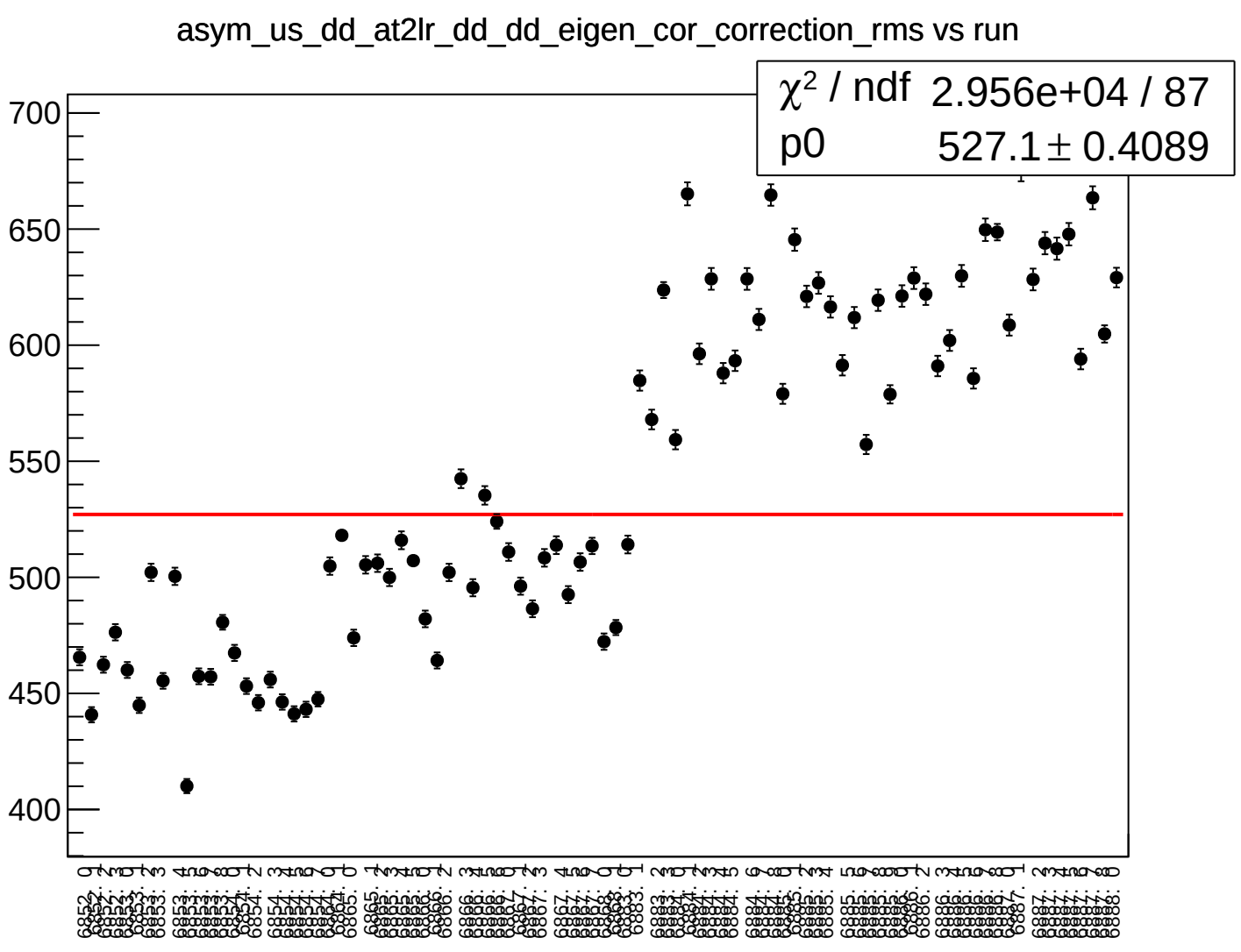

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.956e+04 / 87
p0 527.1 ± 0.4089
700
650
600
550
500
450
400

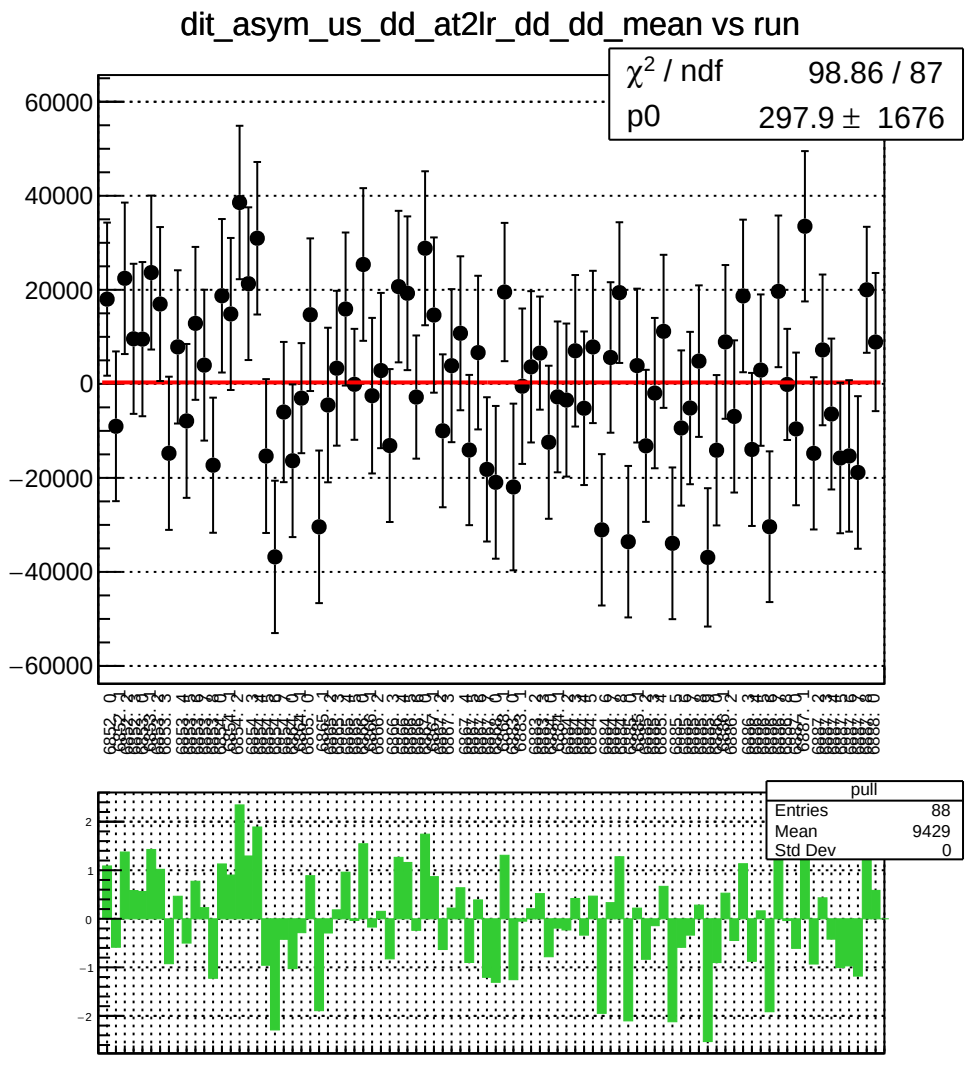

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 97.71 / 87
p0 123.4 ± 1673
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −9462
Std Dev 0
2
1
0
−1
−2

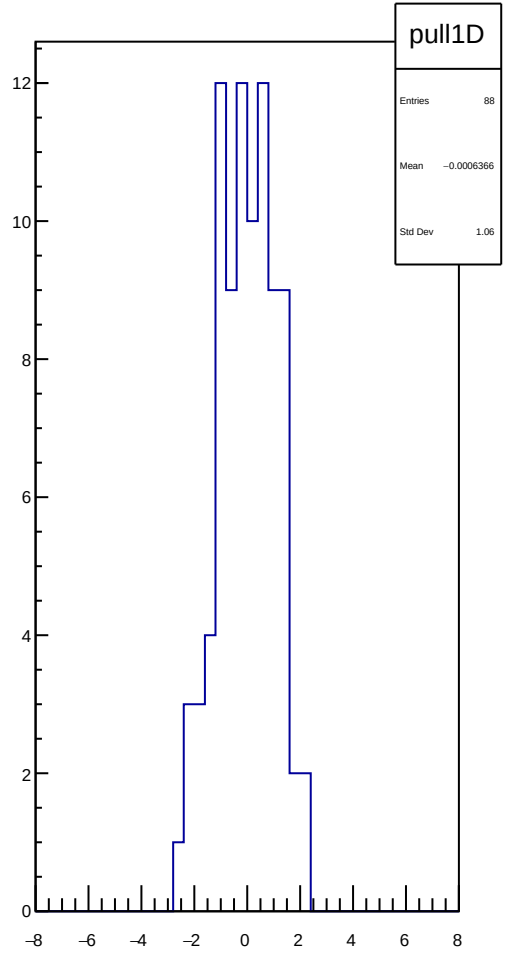

pull1D
Entries 88
Mean 0.0006201
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

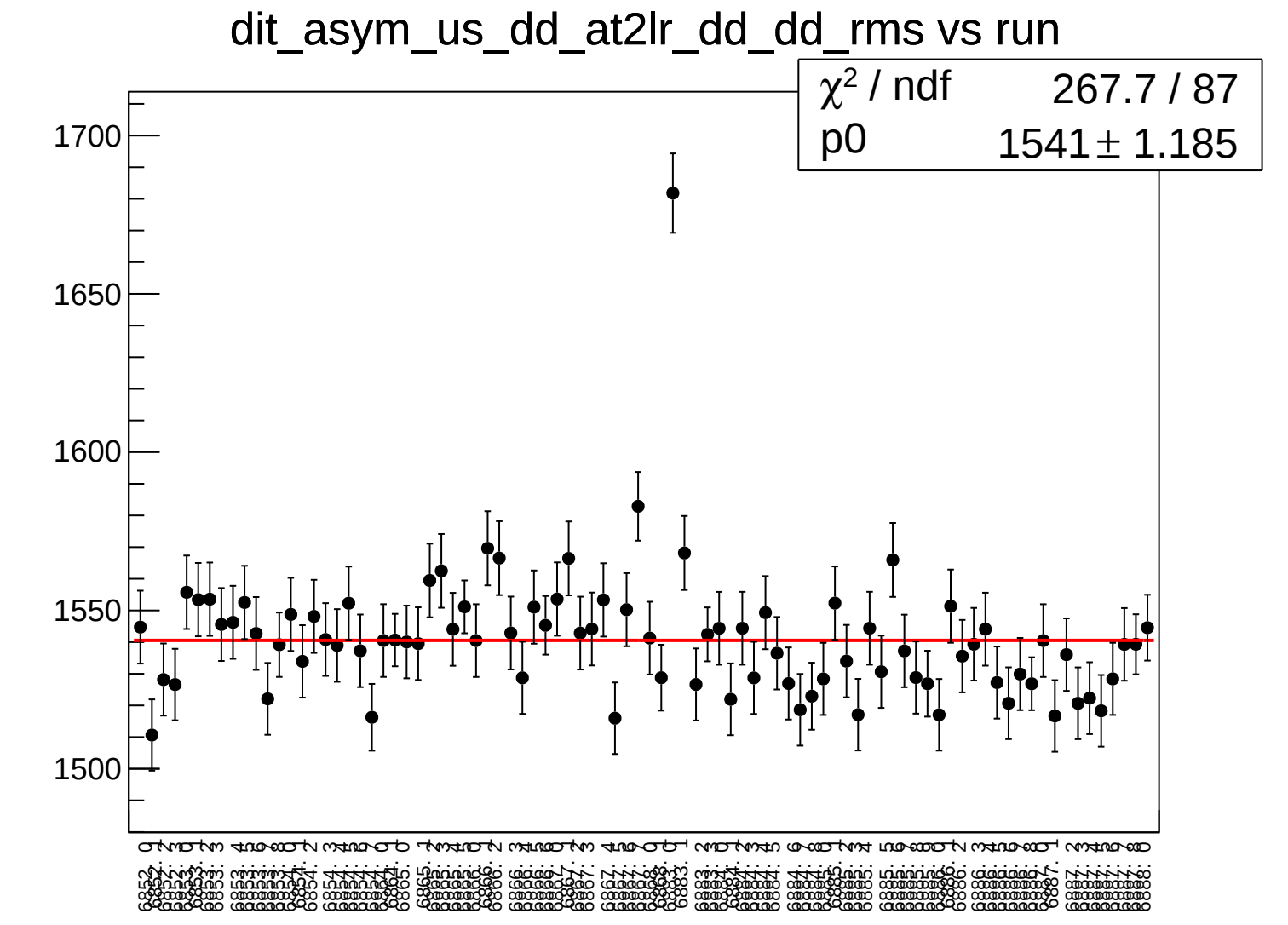

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 267.5 / 87
p0 1538 ± 1.183
1700
1650
1600
1550
1500

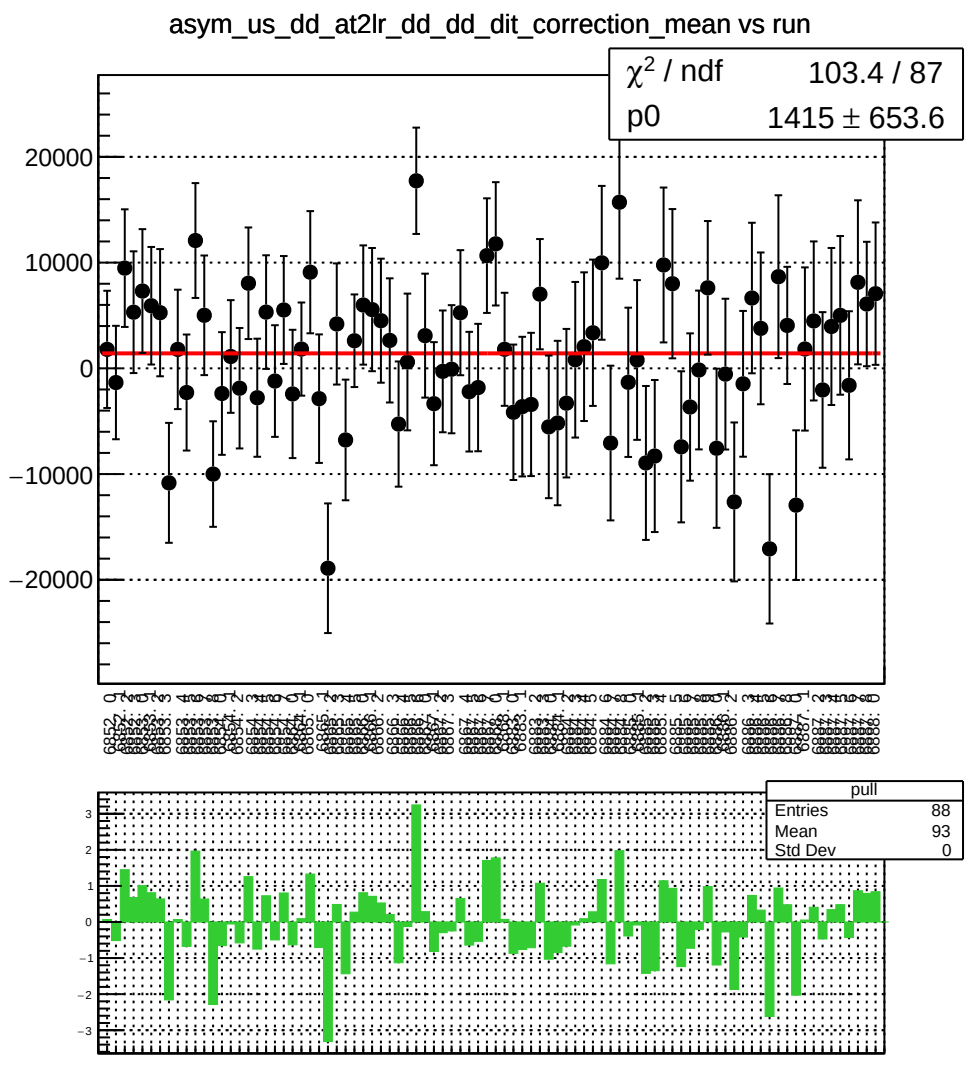

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 103.2 / 87
p0 1192 ± 578.3
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 98.25
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.02675
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

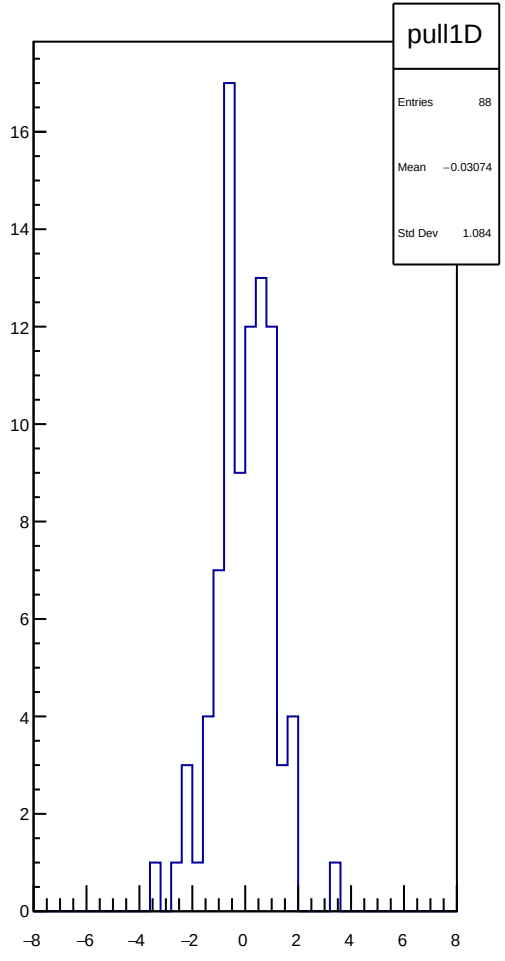

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.956e+04 / 87
p0 527.1 ± 0.4089
700
650
600
550
500
450
400

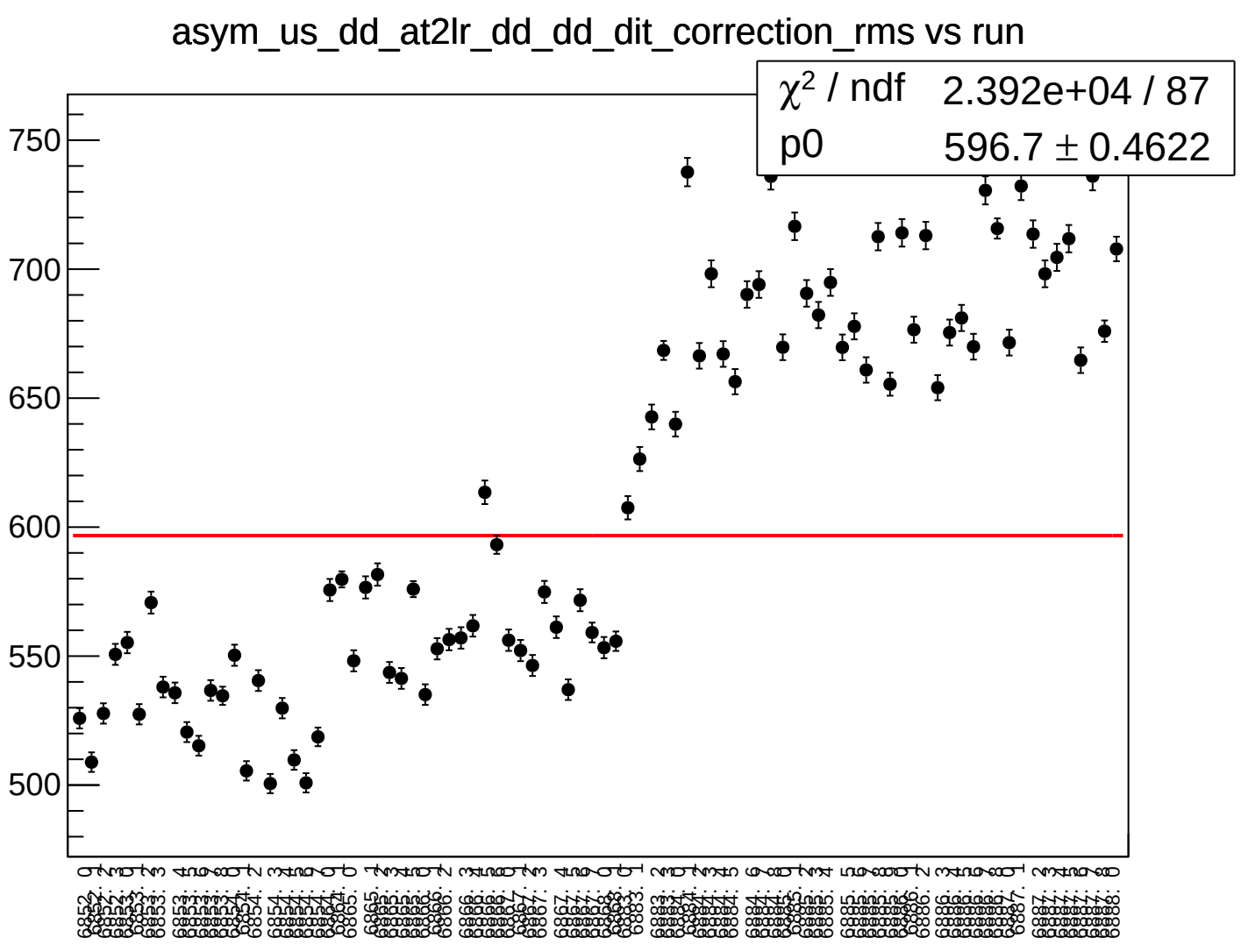

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 98.86 / 87
p0 297.9 ± 1676
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 9429
Std Dev 0
2
1
0
−1
−2

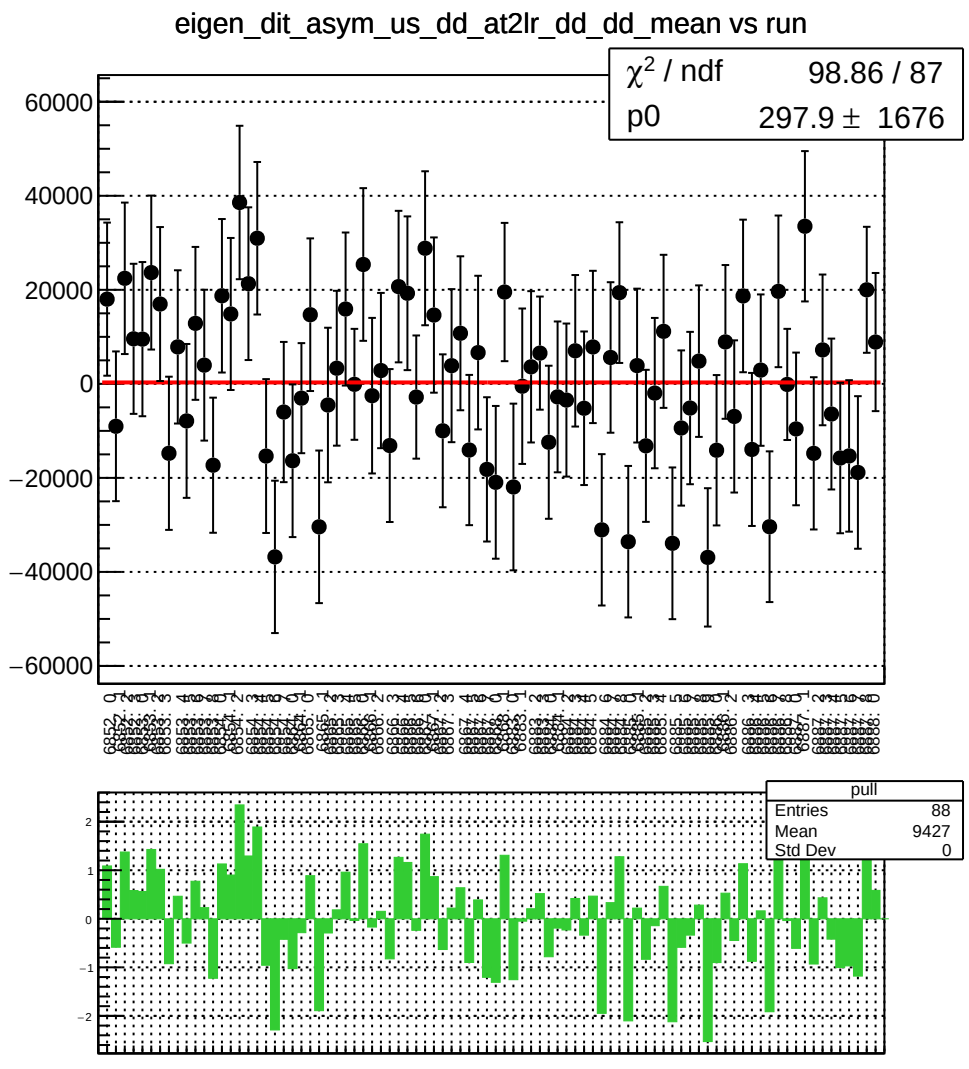

pull1D
Entries 88
Mean −0.0006366
Std Dev 1.06
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

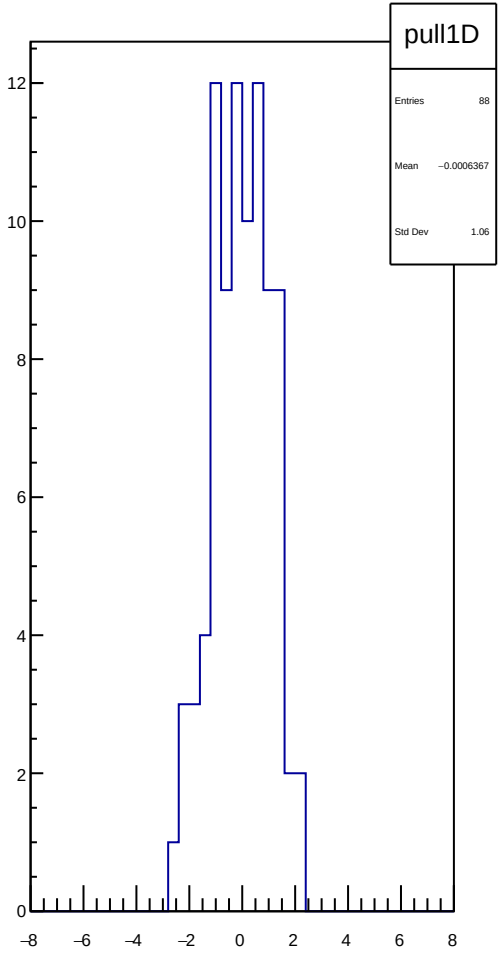

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 267.7 / 87
p0 1541 ± 1.185
1700
1650
1600
1550
1500

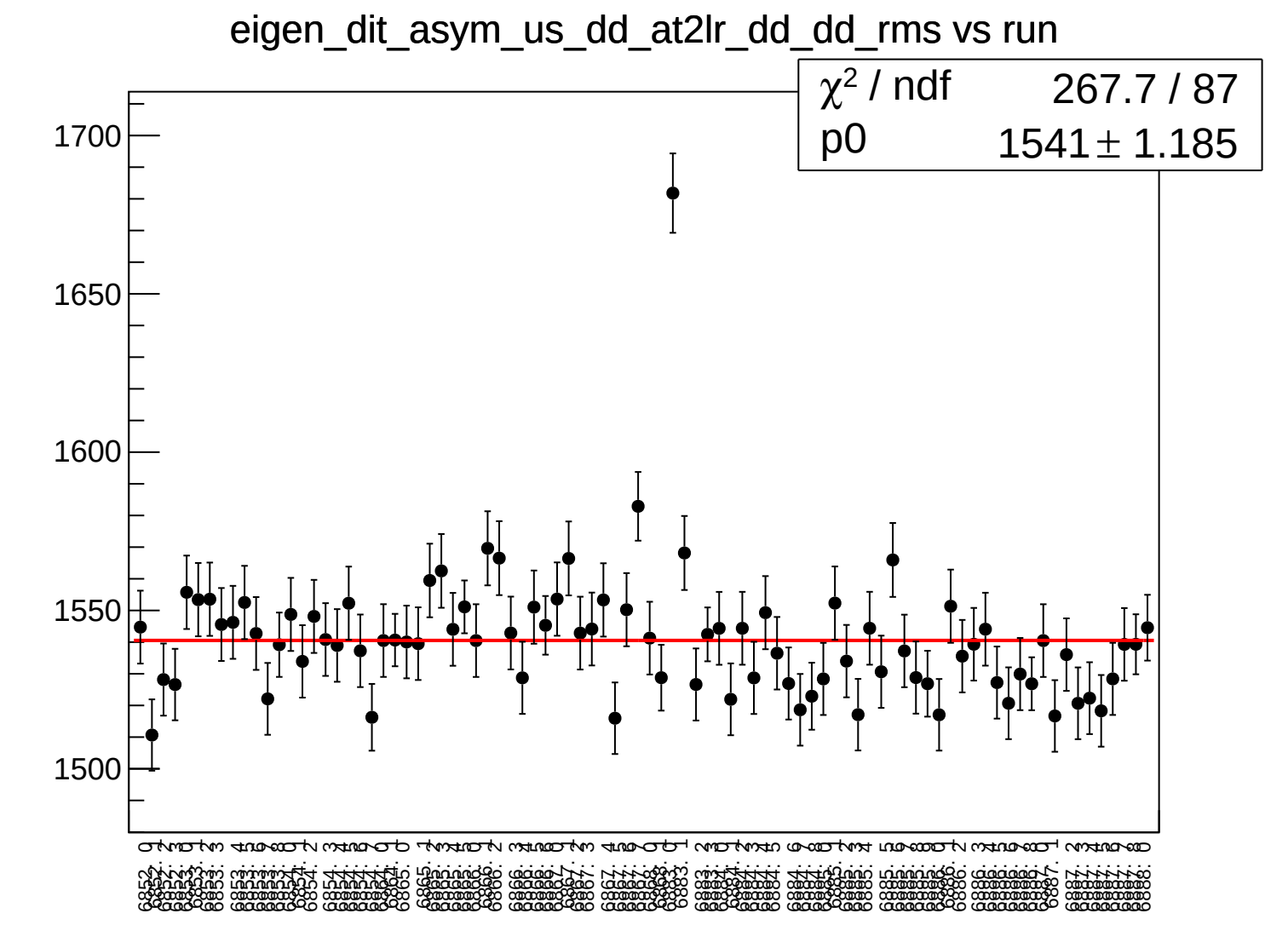

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 103.4 / 87
p0 1415 ± 653.6
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 93
Std Dev 0
3
2
1
0
−1
−2
−3

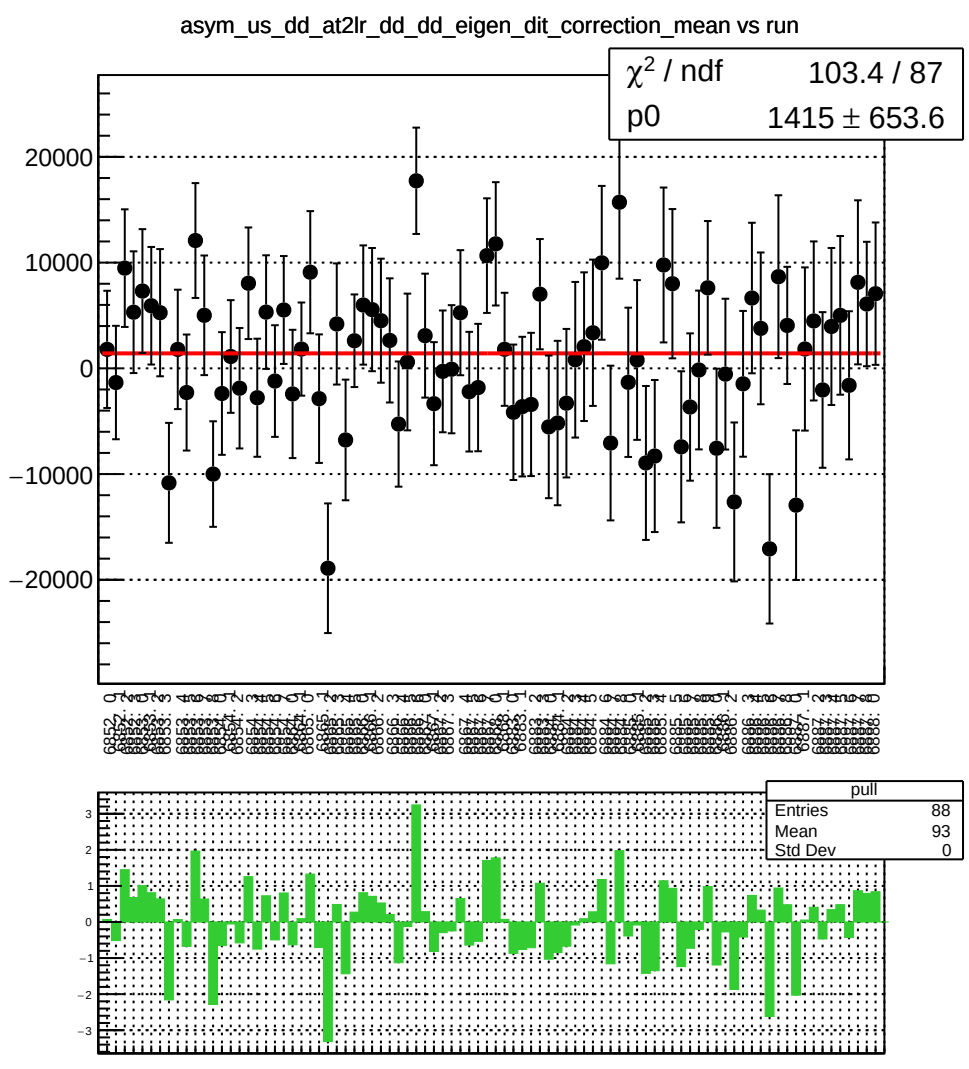

pull1D
Entries 88
Mean −0.03074
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

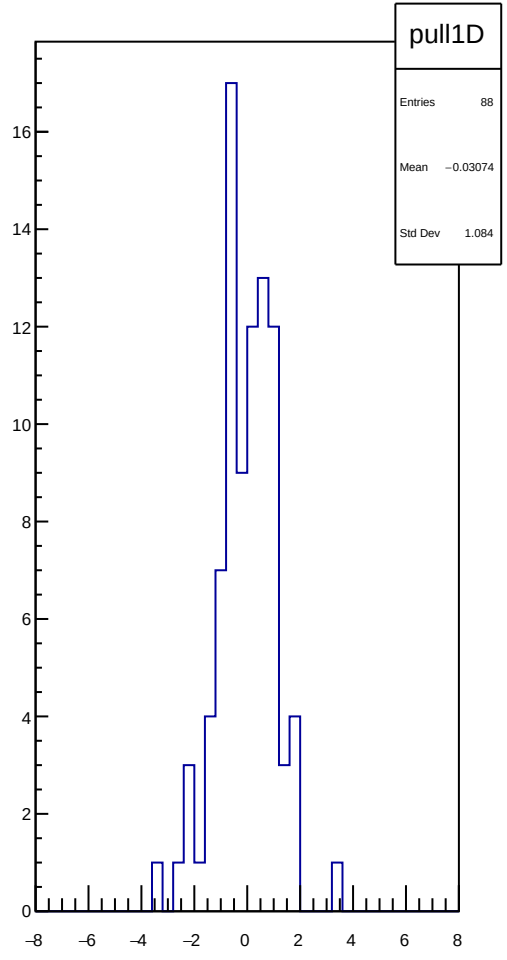

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.392e+04 / 87
p0 596.7 ± 0.4622
750
700
650
600
550
500

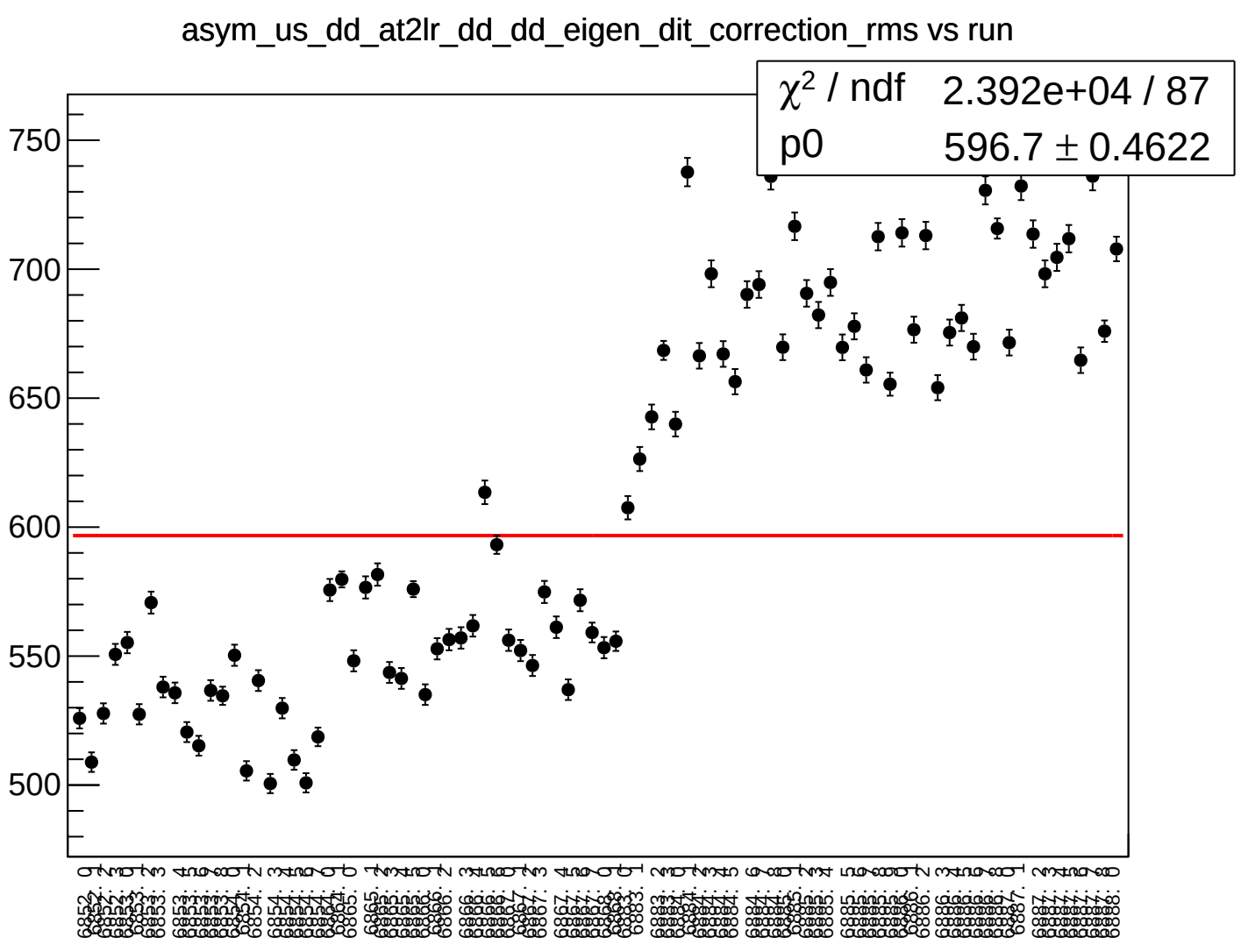

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 98.86 / 87
p0 297.9 ± 1676
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 9427
Std Dev 0
2
1
0
−1
−2

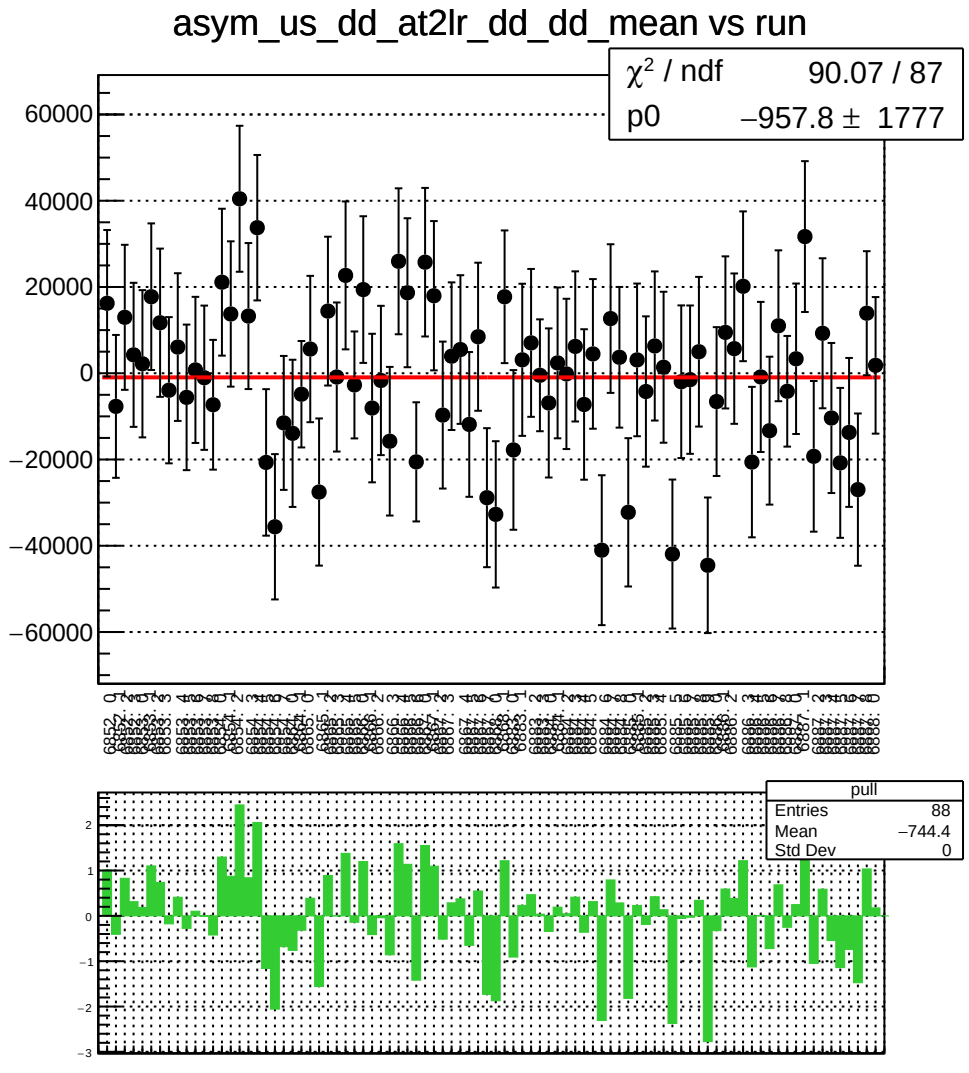

pull1D
Entries 88
Mean −0.0006367
Std Dev 1.06
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

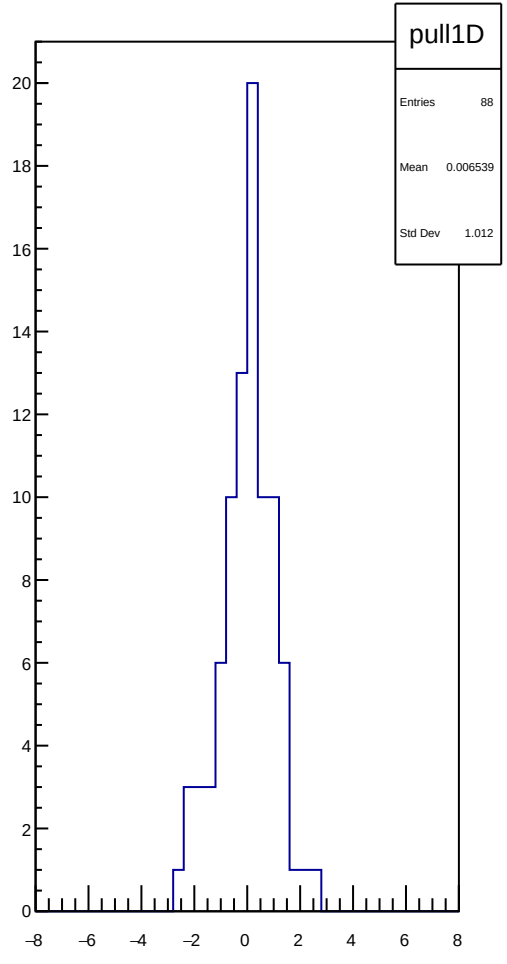

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 267.7 / 87
p0 1541 ± 1.185
1700
1650
1600
1550
1500

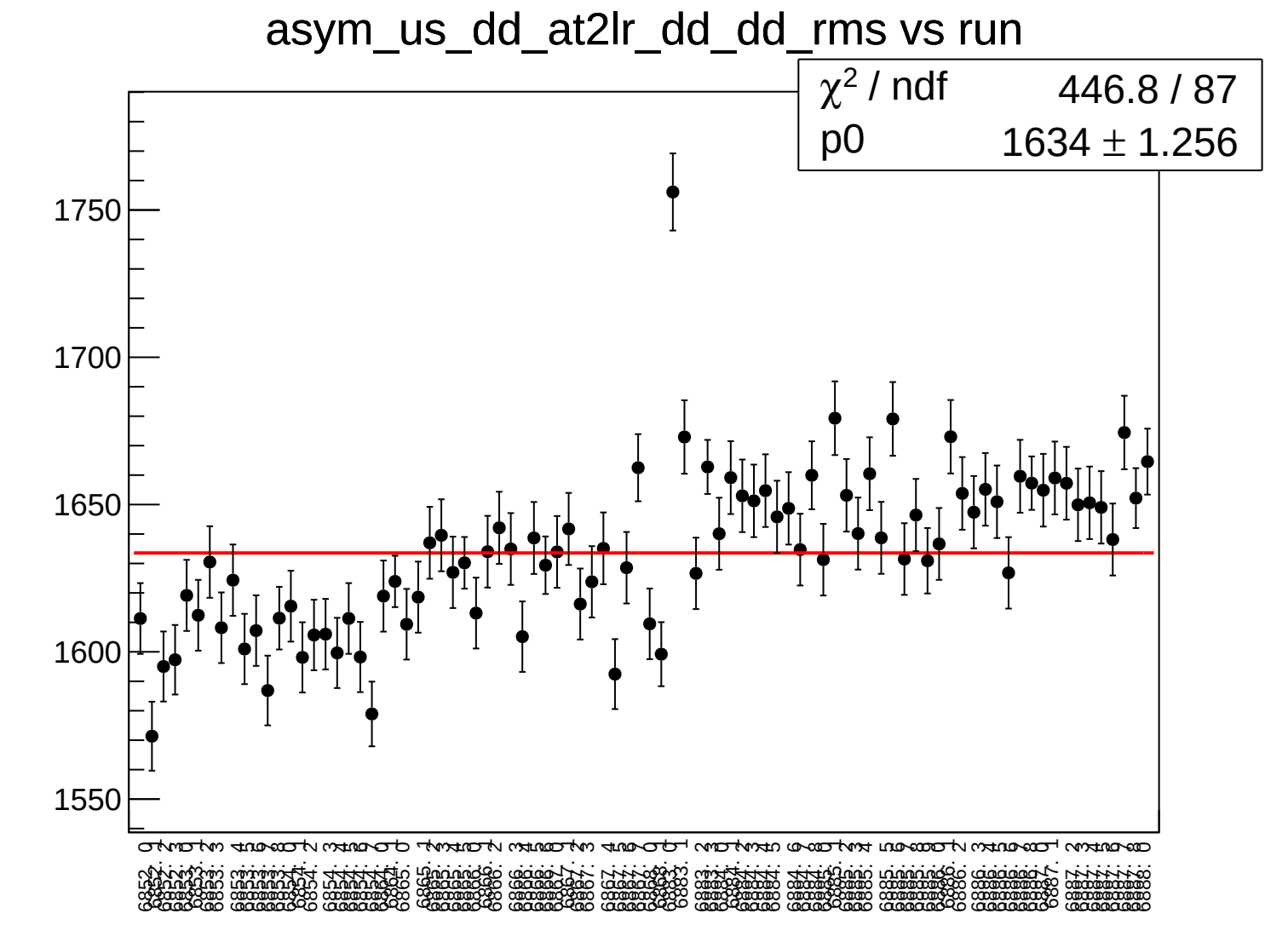

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 103.4 / 87
p0 1415 ± 653.6
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 93
Std Dev 0
3
2
1
0
−1
−2
−3

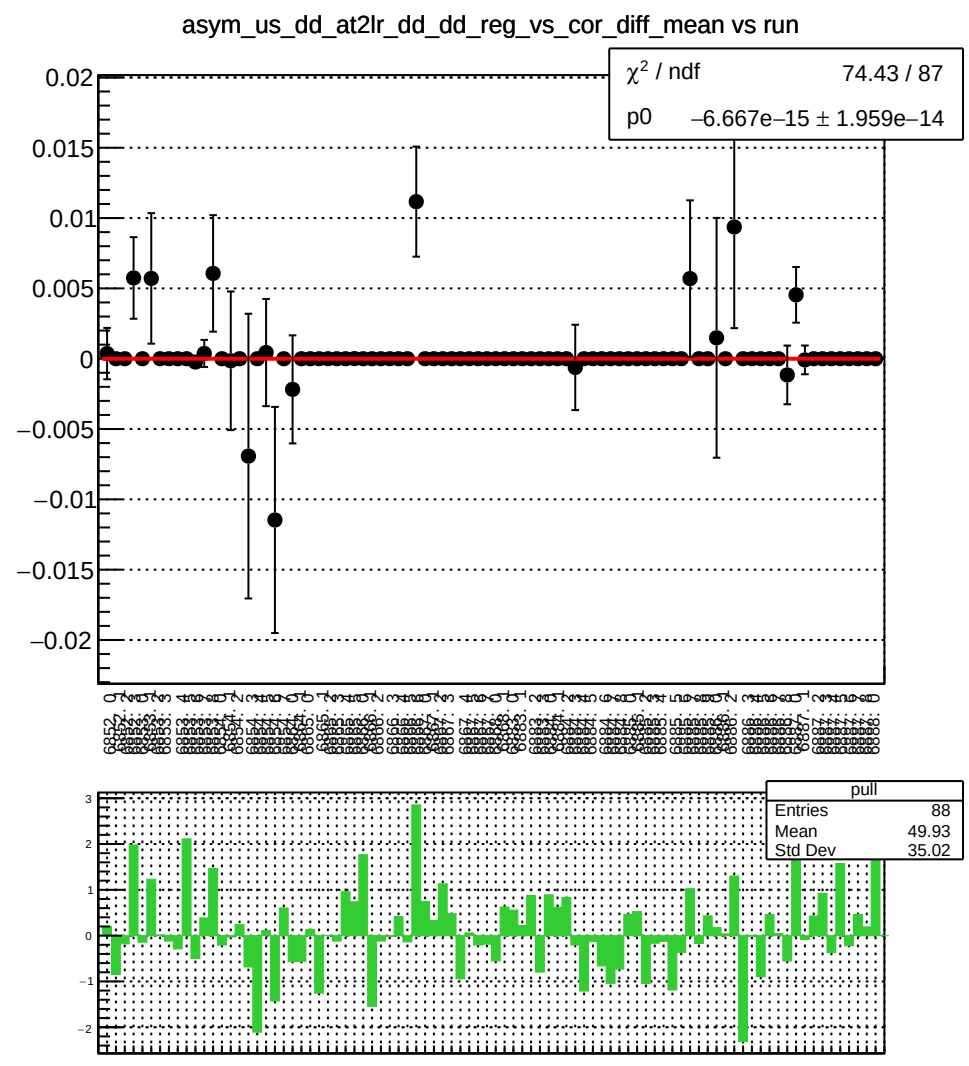

pull1D
Entries 88
Mean −0.03074
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

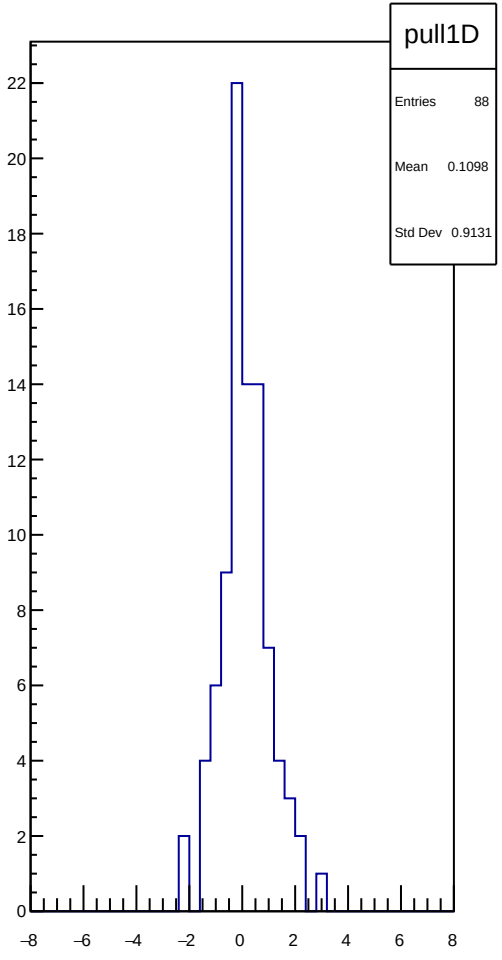

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.392e+04 / 87
p0 596.7 ± 0.4622
750
700
650
600
550
500

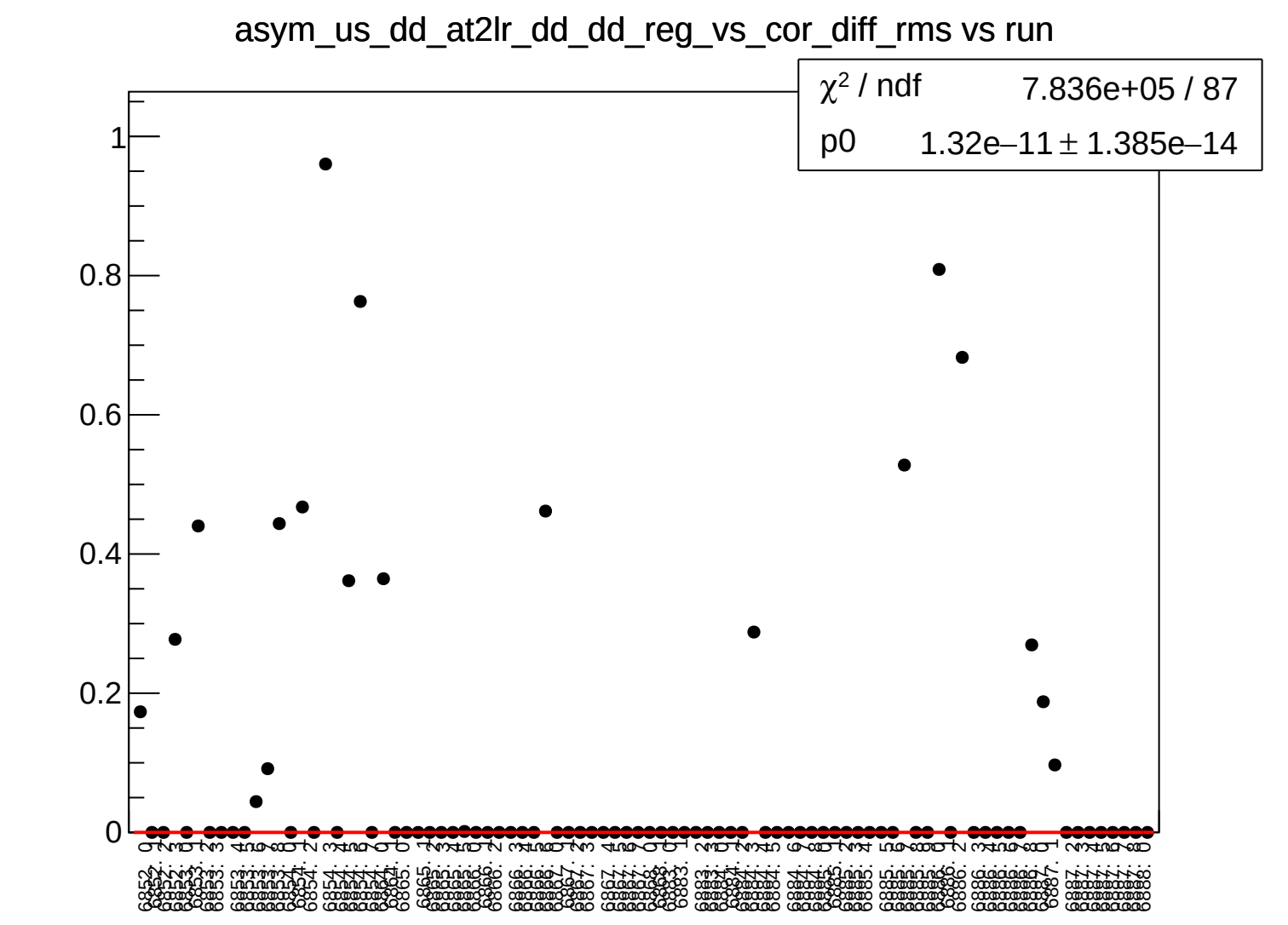

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 90.07 / 87
p0 −957.8 ± 1777
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −744.4
Std Dev 0
2
1
0
−1
−2
−3

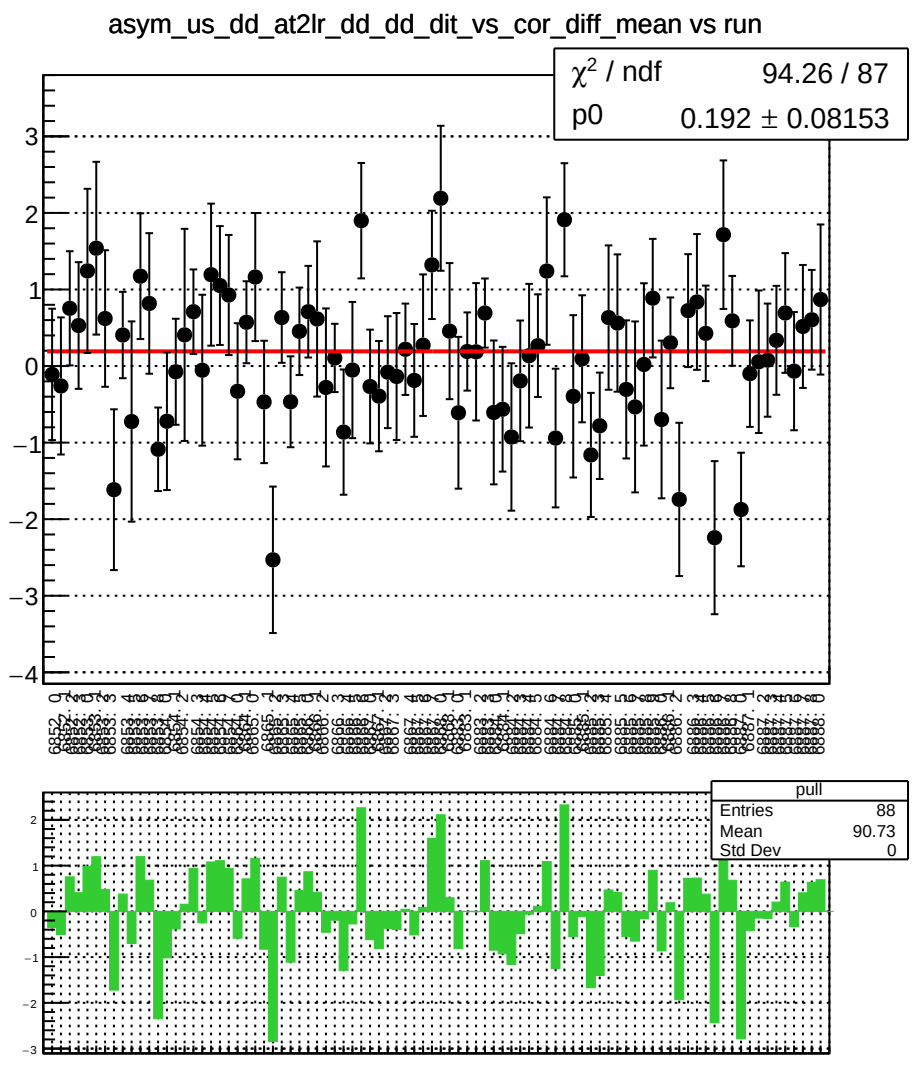

pull1D
Entries 88
Mean 0.006539
Std Dev 1.012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

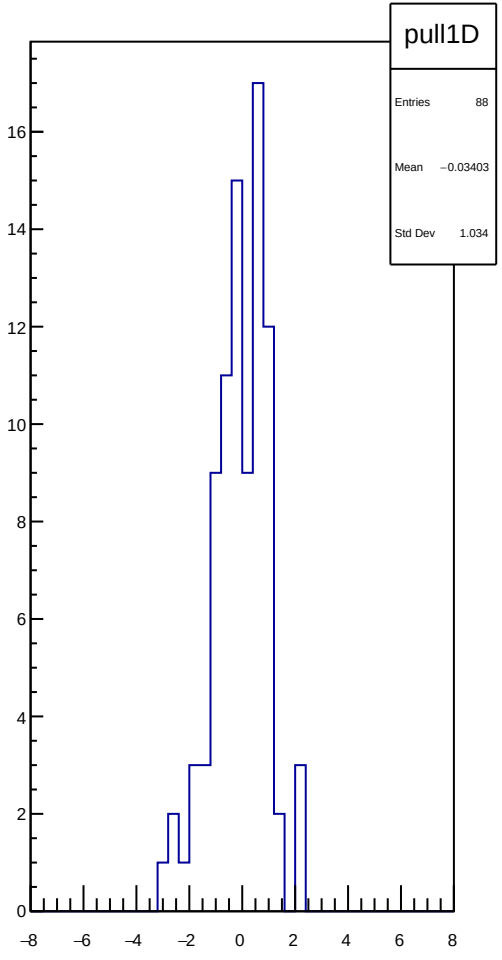

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 446.8 / 87
p0 1634 ± 1.256
1750
1700
1650
1600
1550

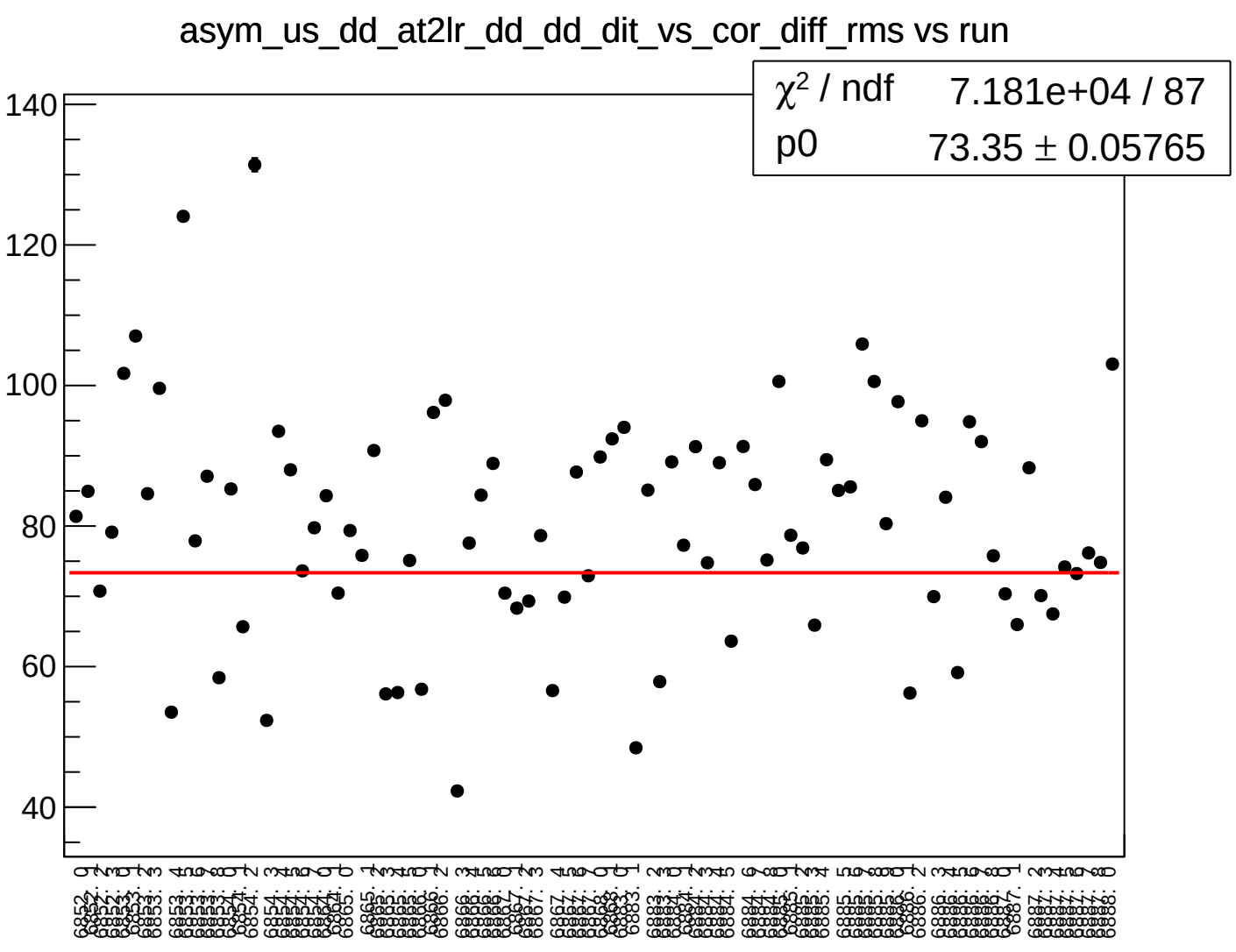

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.43 / 87
p0 −6.667e−15 ± 1.959e−14
pull
Entries 88
Mean 49.93
Std Dev 35.02

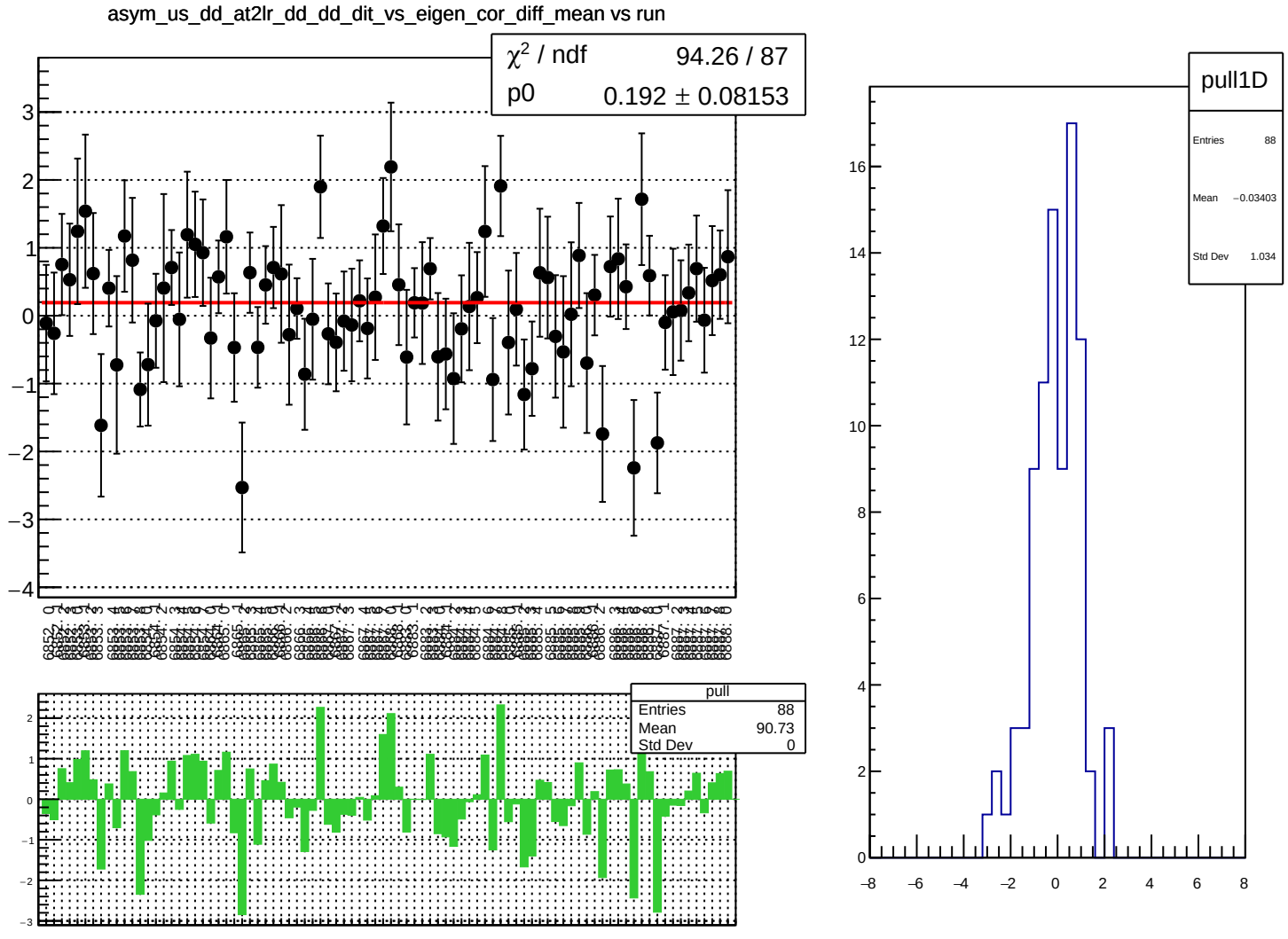

pull1D
Entries 88
Mean 0.1098
Std Dev 0.9131

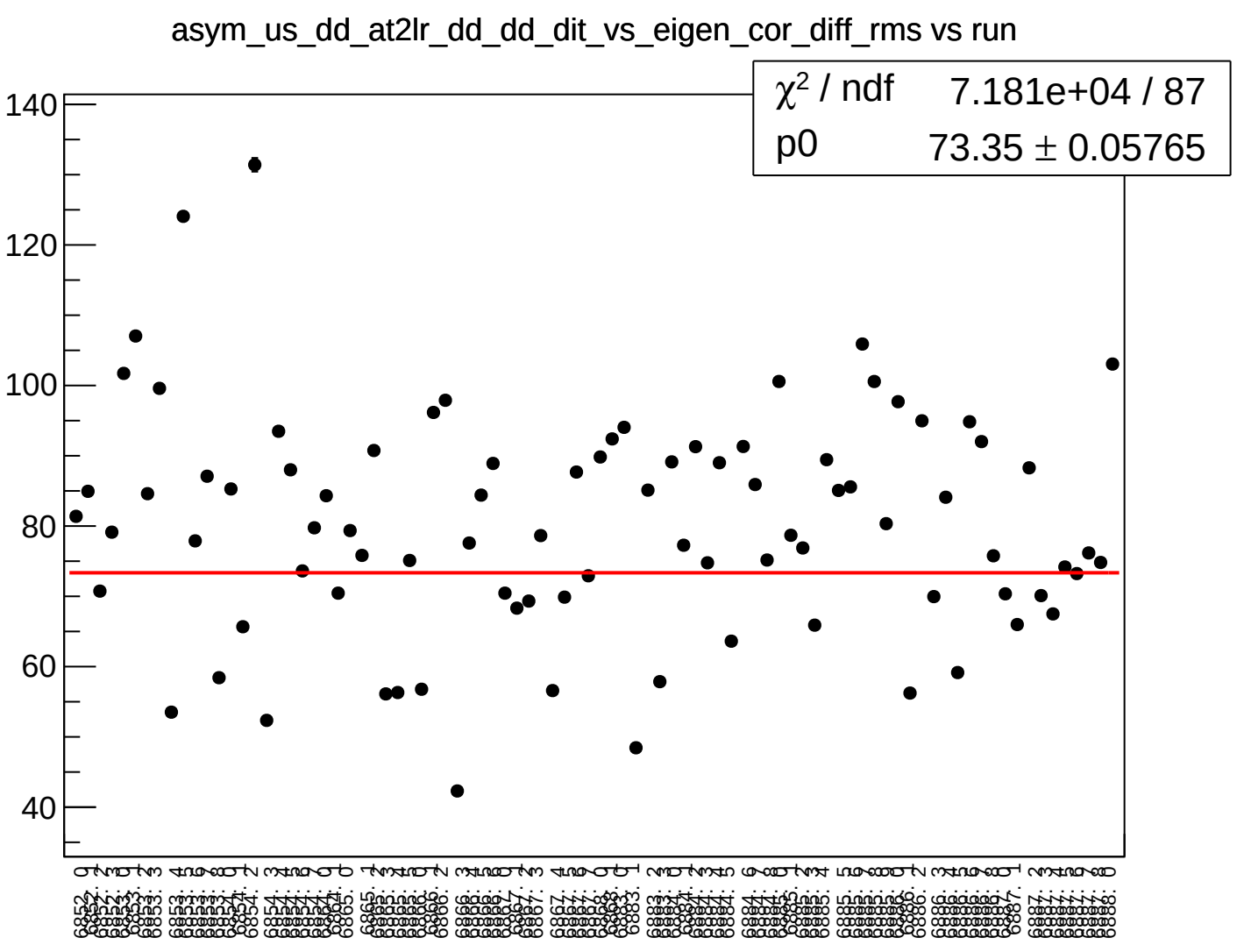

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.836e+05 / 87
p0 1.32e−11 ± 1.385e−14
1
0.8
0.6
0.4
0.2
0

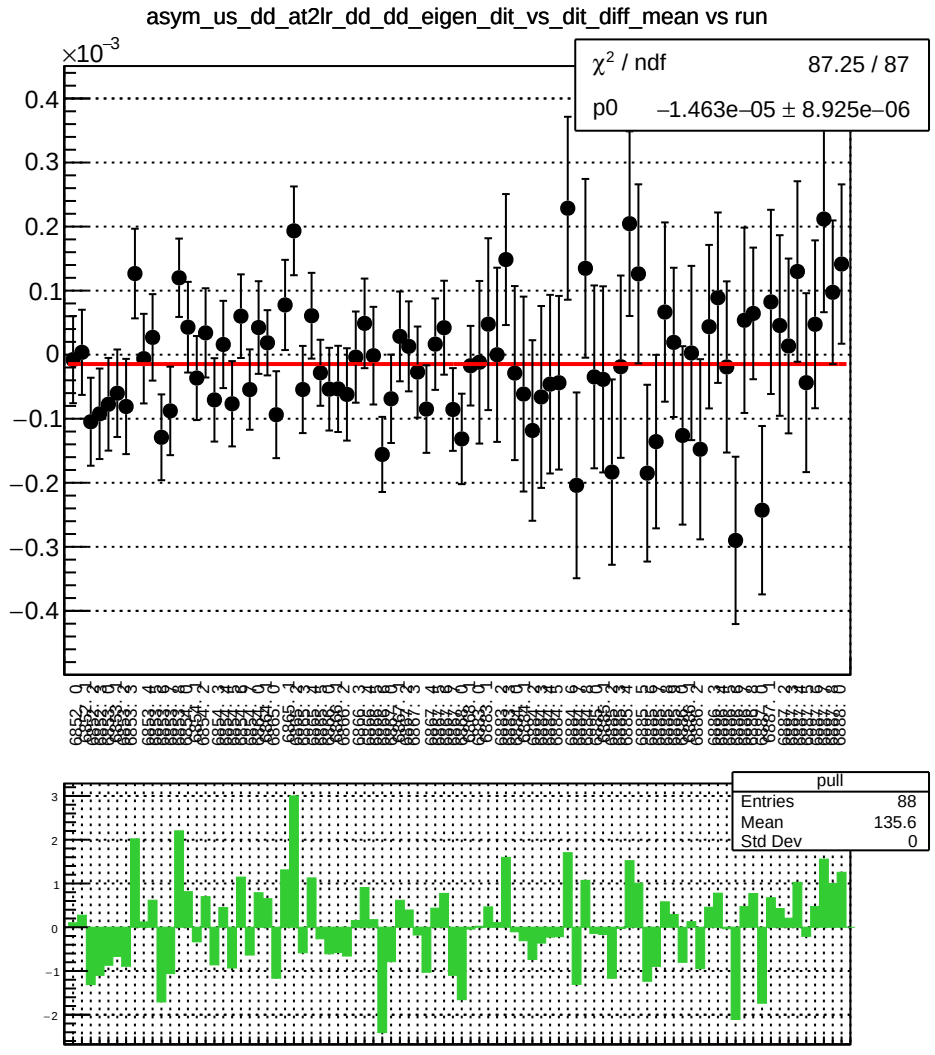

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.26 / 87
p0 0.192 ± 0.08153
pull
Entries 88
Mean 90.73
Std Dev 0

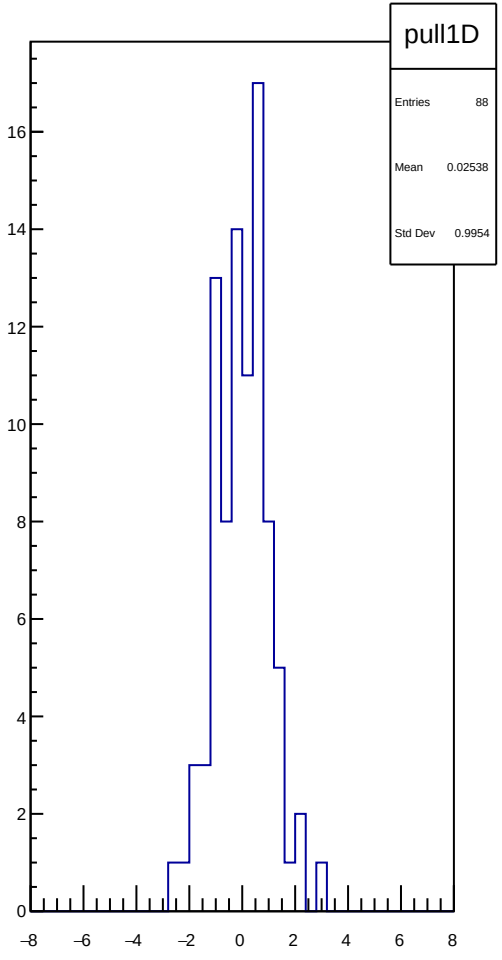

pull1D
Entries 88
Mean −0.03403
Std Dev 1.034

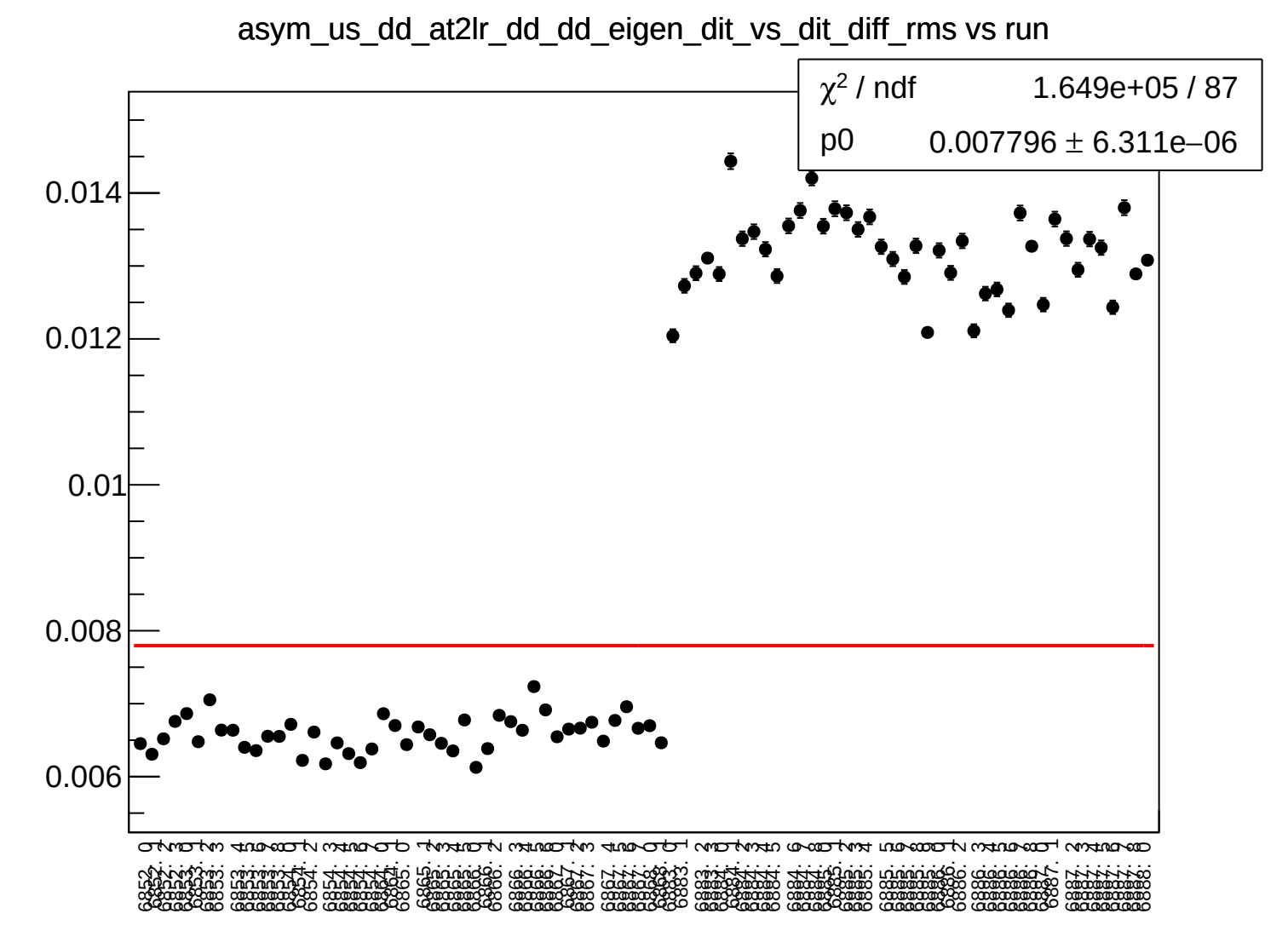

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.181e+04 / 87
p0 73.35 ± 0.05765
140
120
100
80
60
40

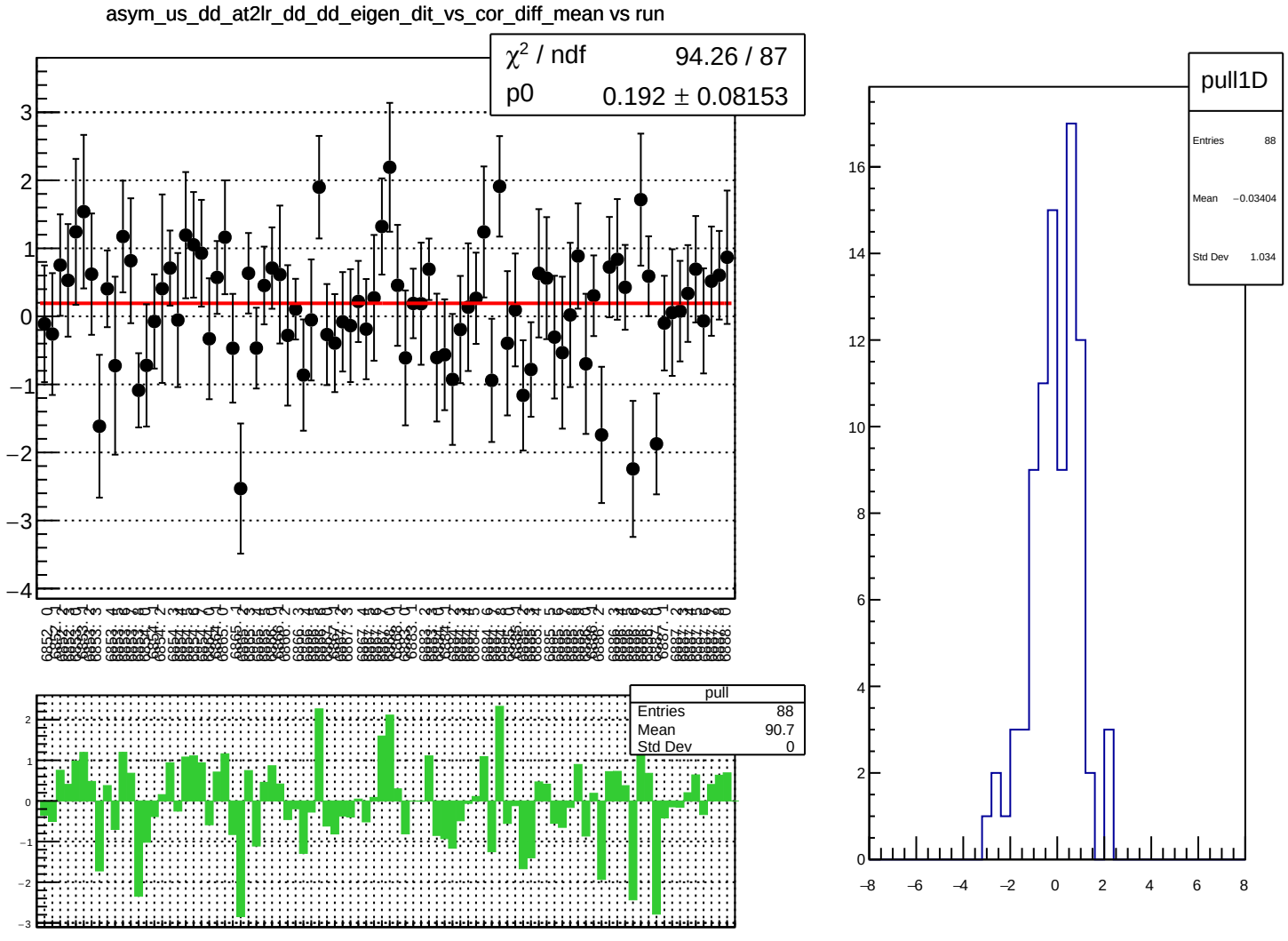

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.26 / 87
p0 0.192 ± 0.08153
pull
Entries 88
Mean 90.73
Std Dev 0
pull1D
Entries 88
Mean −0.03403
Std Dev 1.034

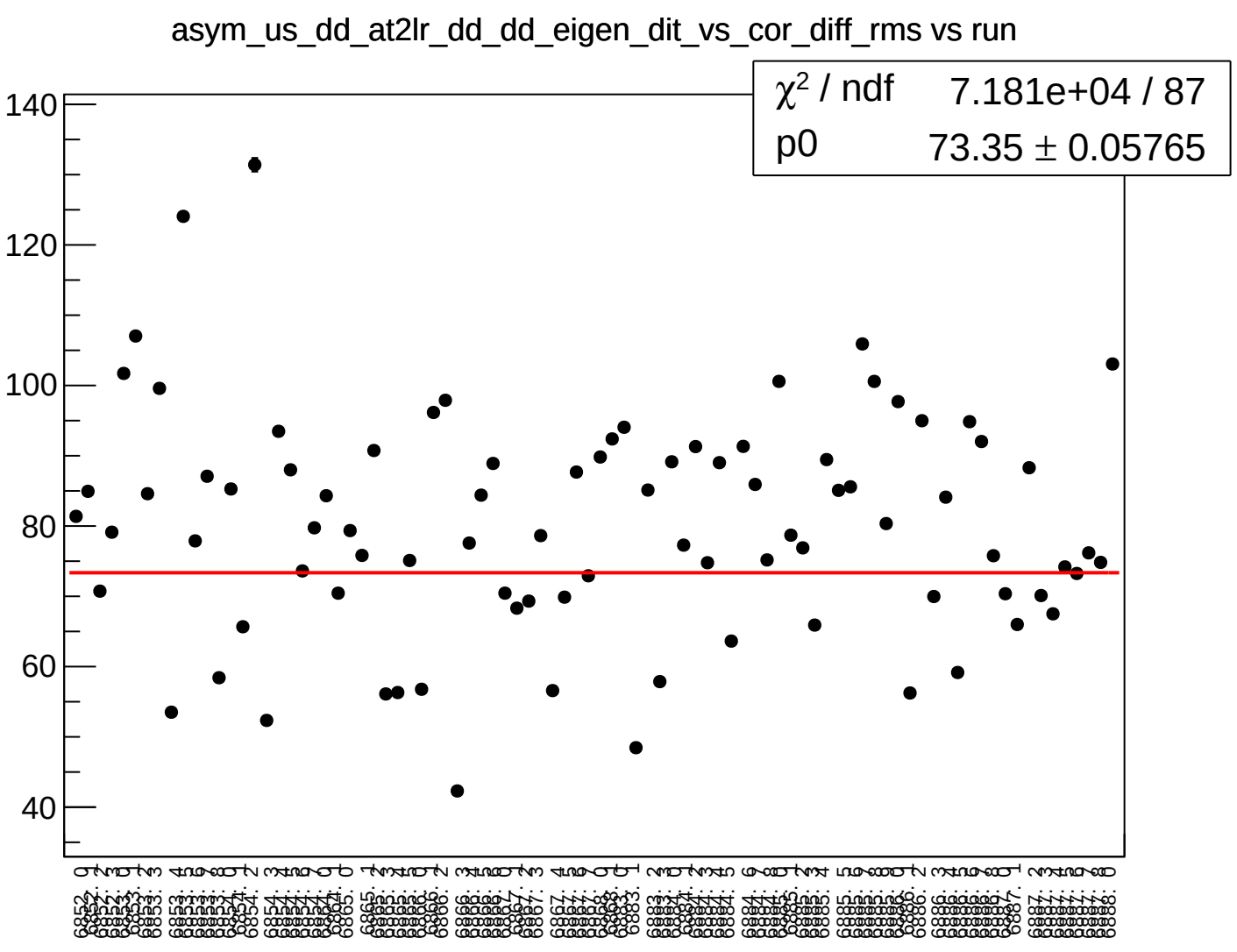

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.181e+04 / 87
p0 73.35 ± 0.05765
140
120
100
80
60
40

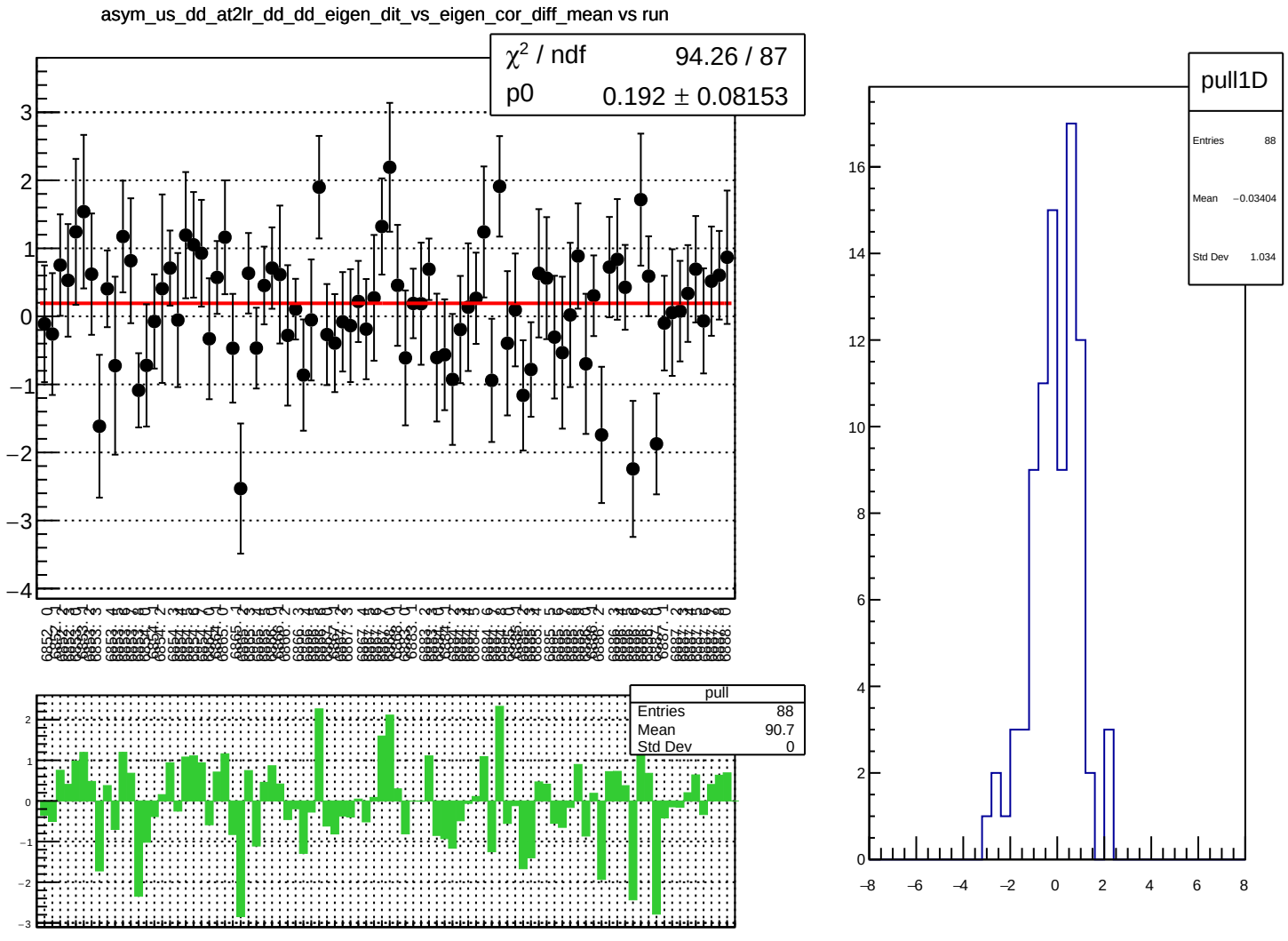

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.25 / 87
p0 −1.463e−05 ± 8.925e−06
pull
Entries 88
Mean 135.6
Std Dev 0

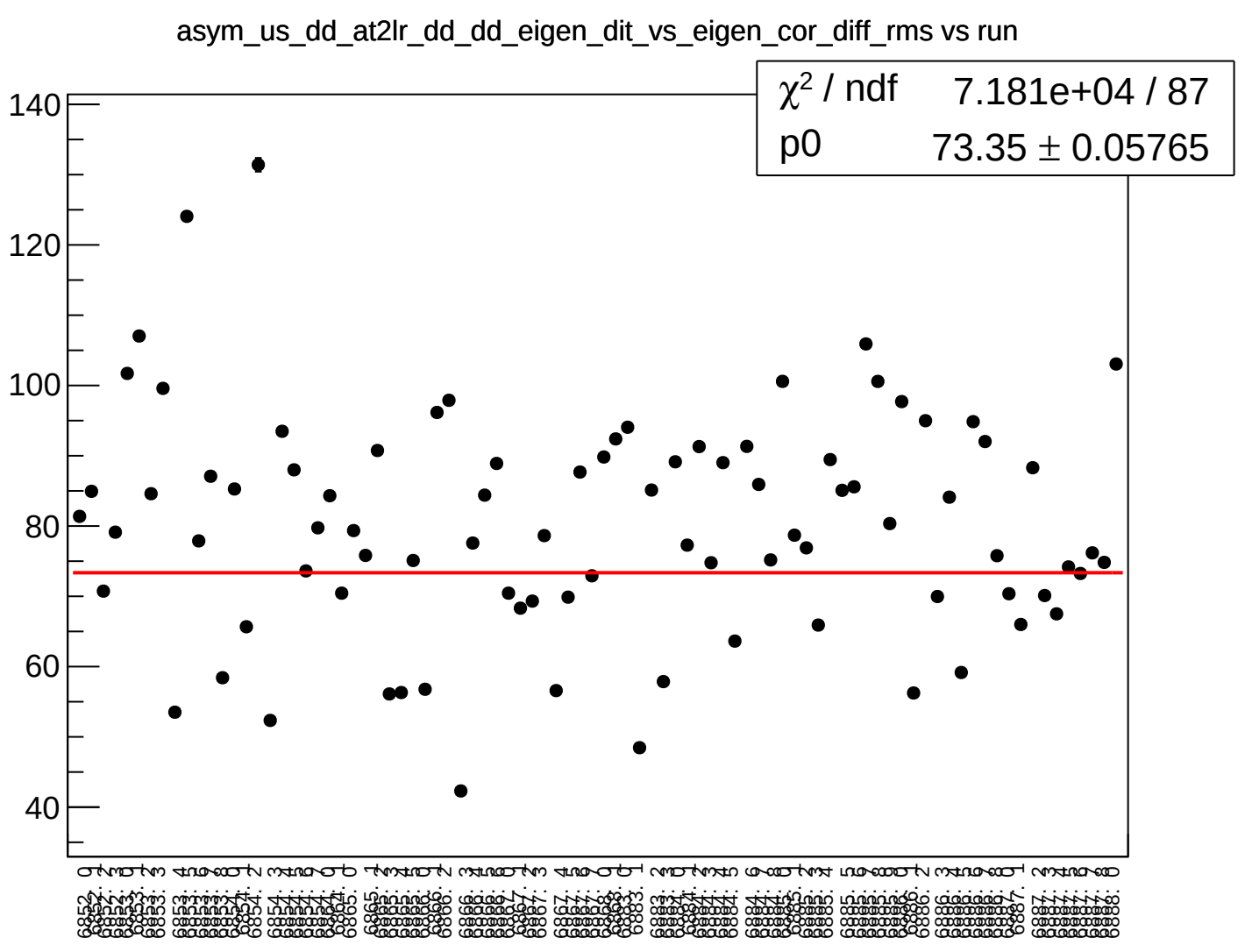

pull1D
Entries 88
Mean 0.02538
Std Dev 0.9954

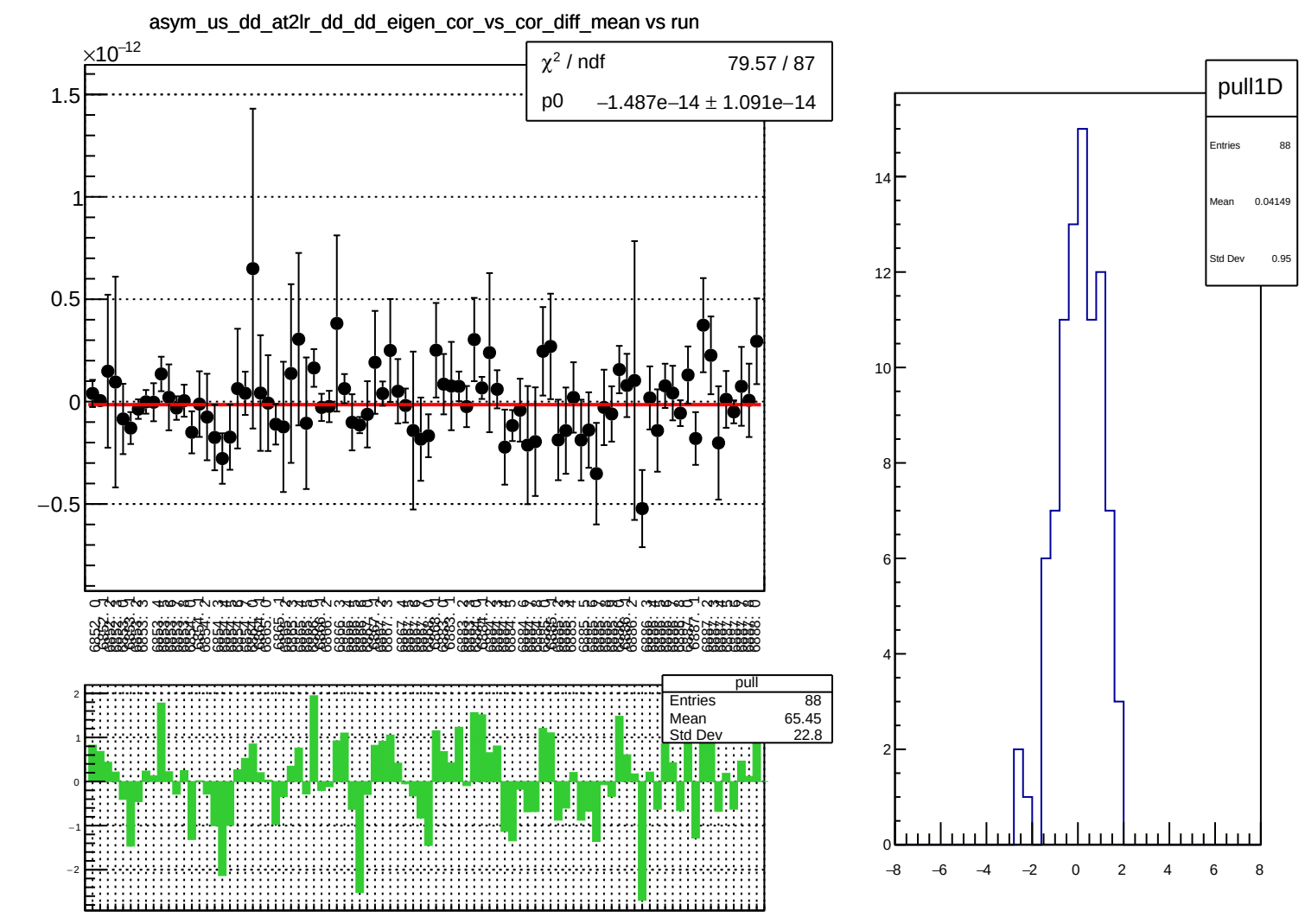

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.649e+05 / 87
p0 0.007796 ± 6.311e−06
0.014
0.012
0.01
0.008
0.006

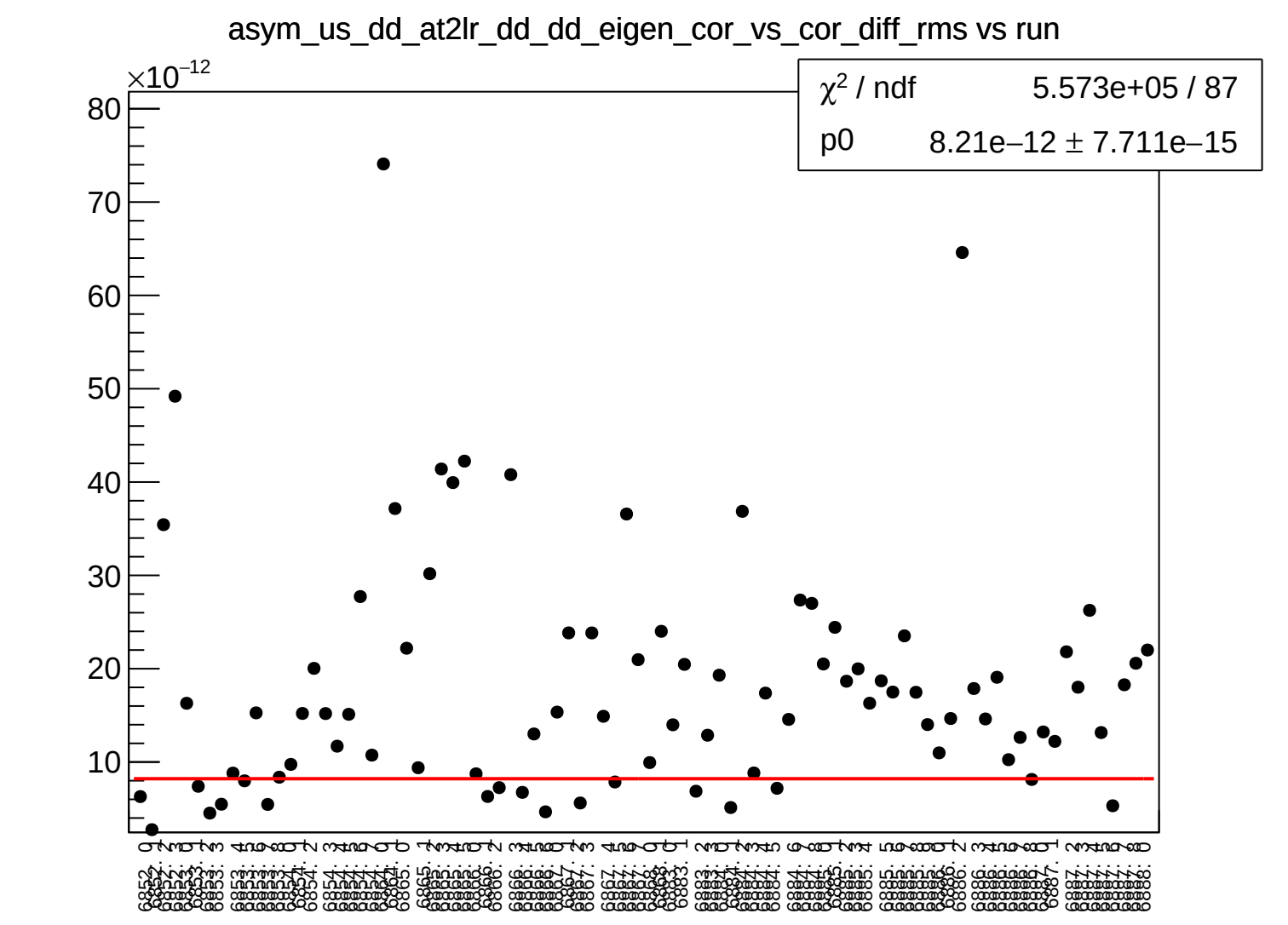

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.26 / 87
p0 0.192 ± 0.08153
pull
Entries 88
Mean 90.7
Std Dev 0
pull1D
Entries 88
Mean −0.03404
Std Dev 1.034

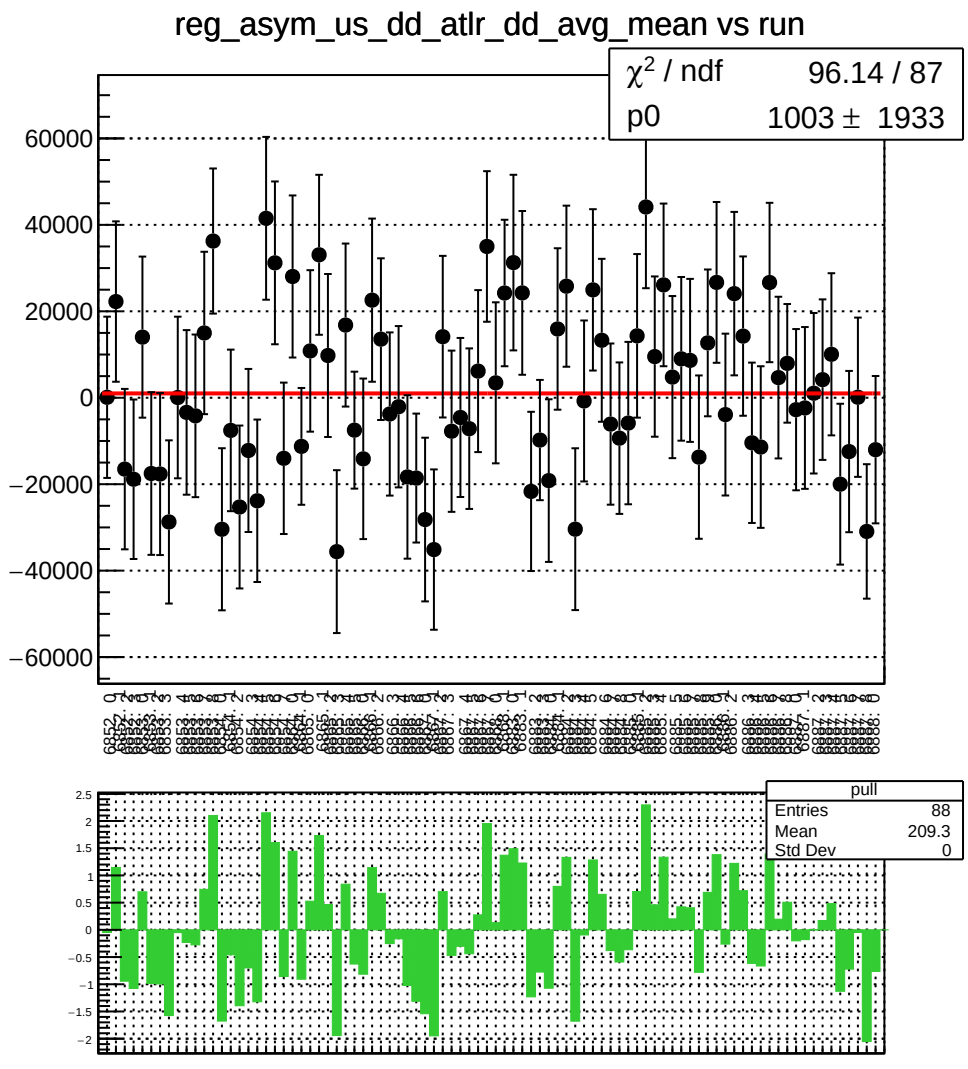

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.181e+04 / 87
p0 73.35 ± 0.05765
140
120
100
80
60
40

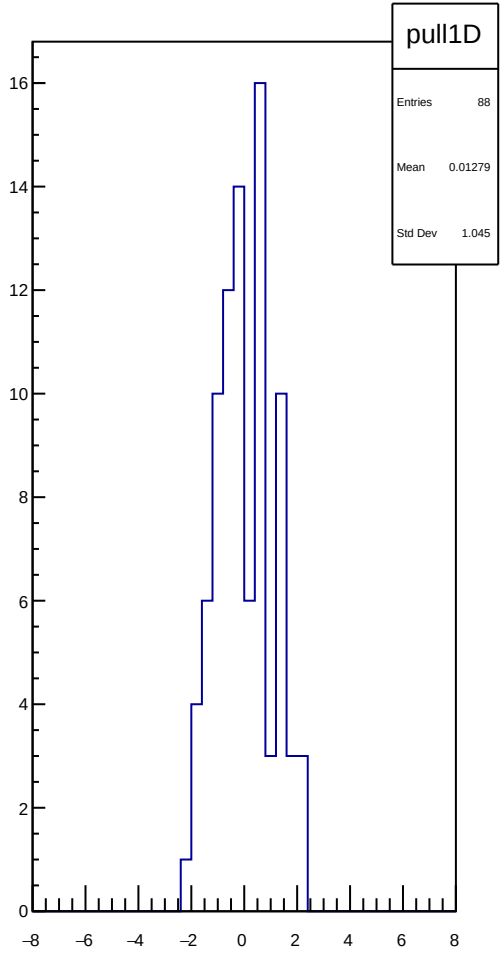

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.26 / 87
p0 0.192 ± 0.08153
pull
Entries 88
Mean 90.7
Std Dev 0
pull1D
Entries 88
Mean −0.03404
Std Dev 1.034

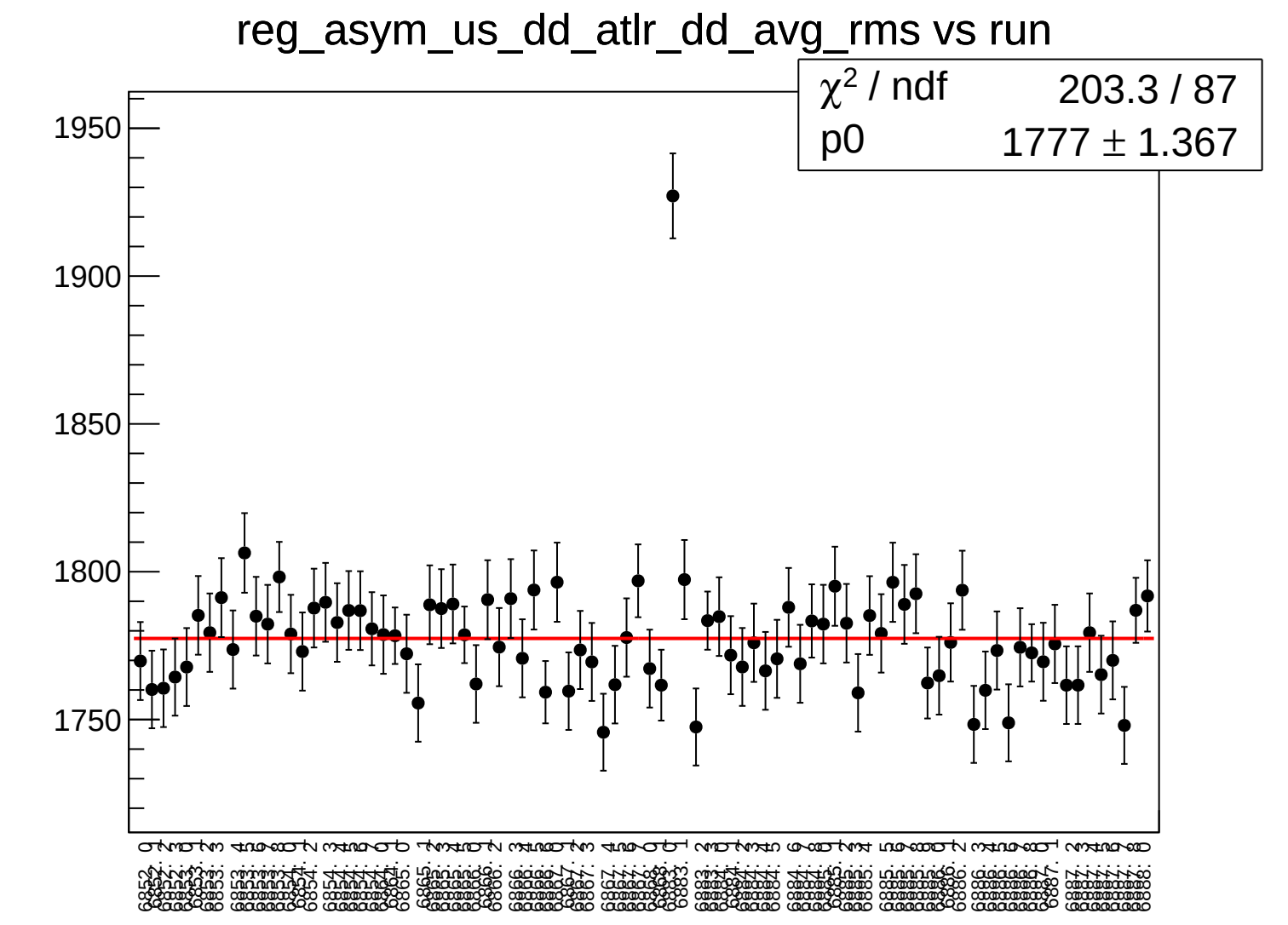

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.181e+04 / 87
p0 73.35 ± 0.05765
140
120
100
80
60
40

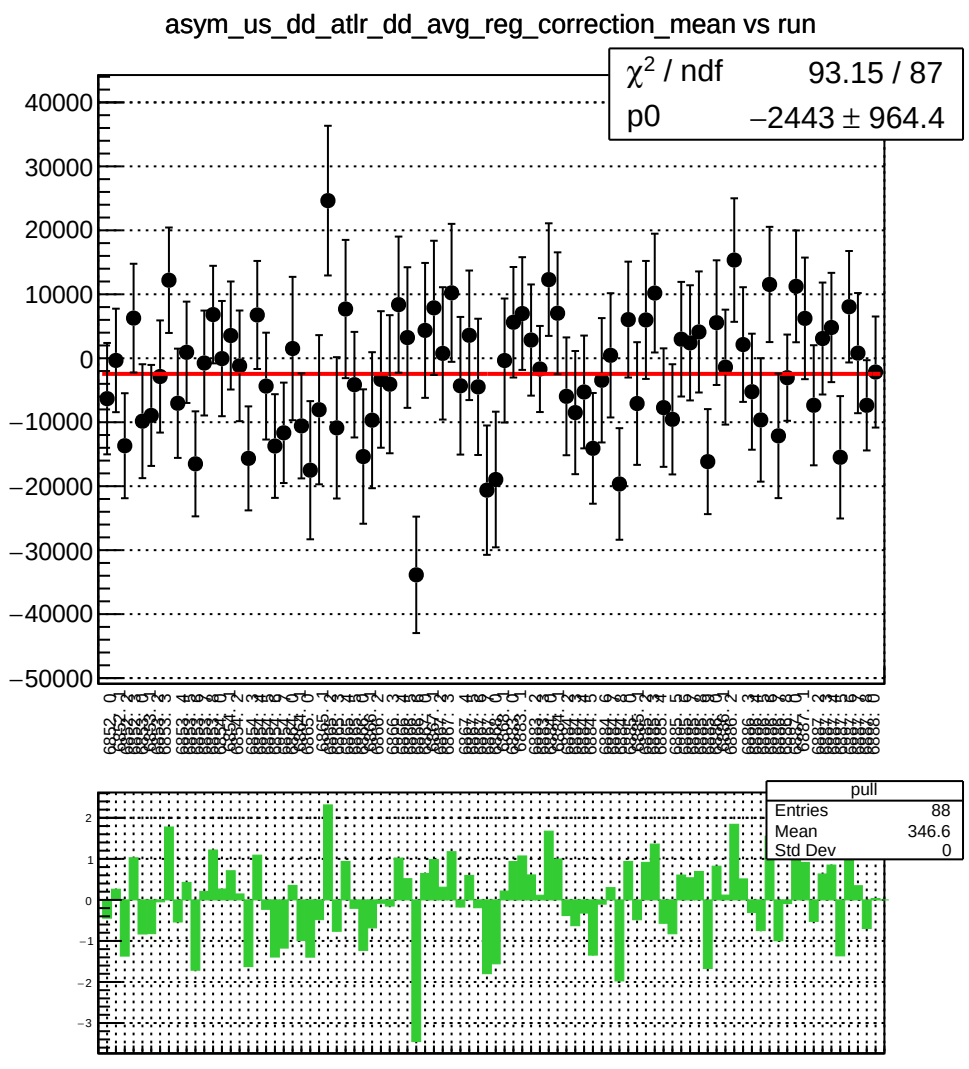

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 79.57 / 87
p0 −1.487e−14 ± 1.091e−14
1.5
1
0.5
0
−0.5
pull
Entries 88
Mean 65.45
Std Dev 22.8
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.04149
Std Dev 0.95
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

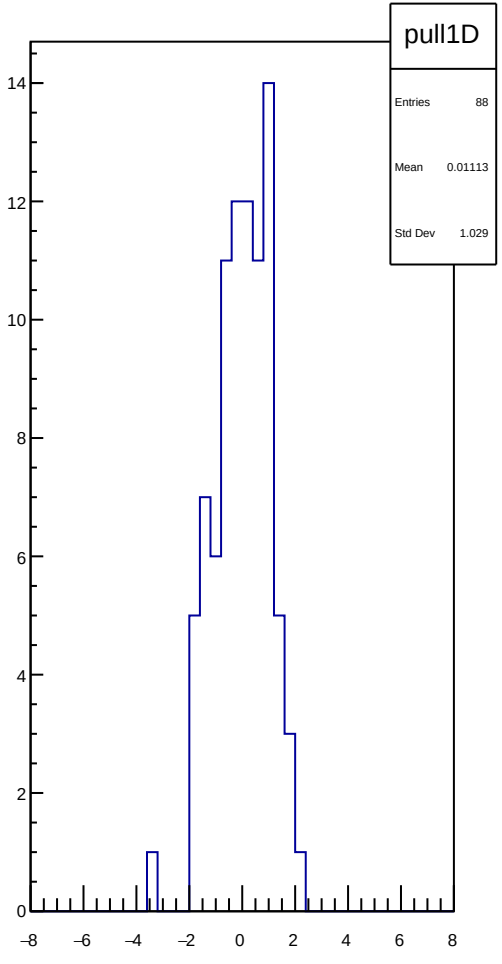

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.573e+05 / 87
p0 8.21e−12 ± 7.711e−15
80
70
60
50
40
30
20
10

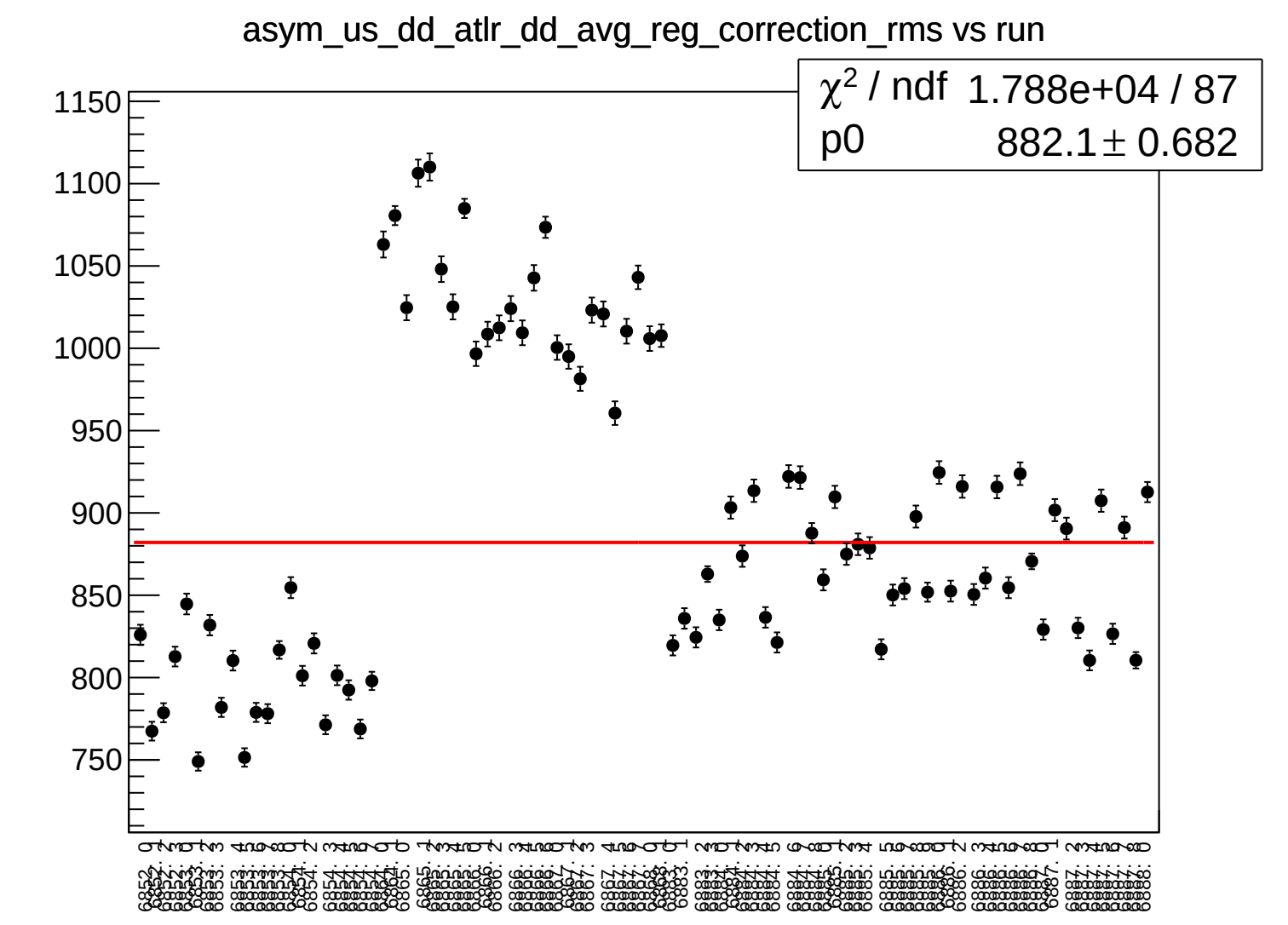

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.14 / 87
p0 1003 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 209.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

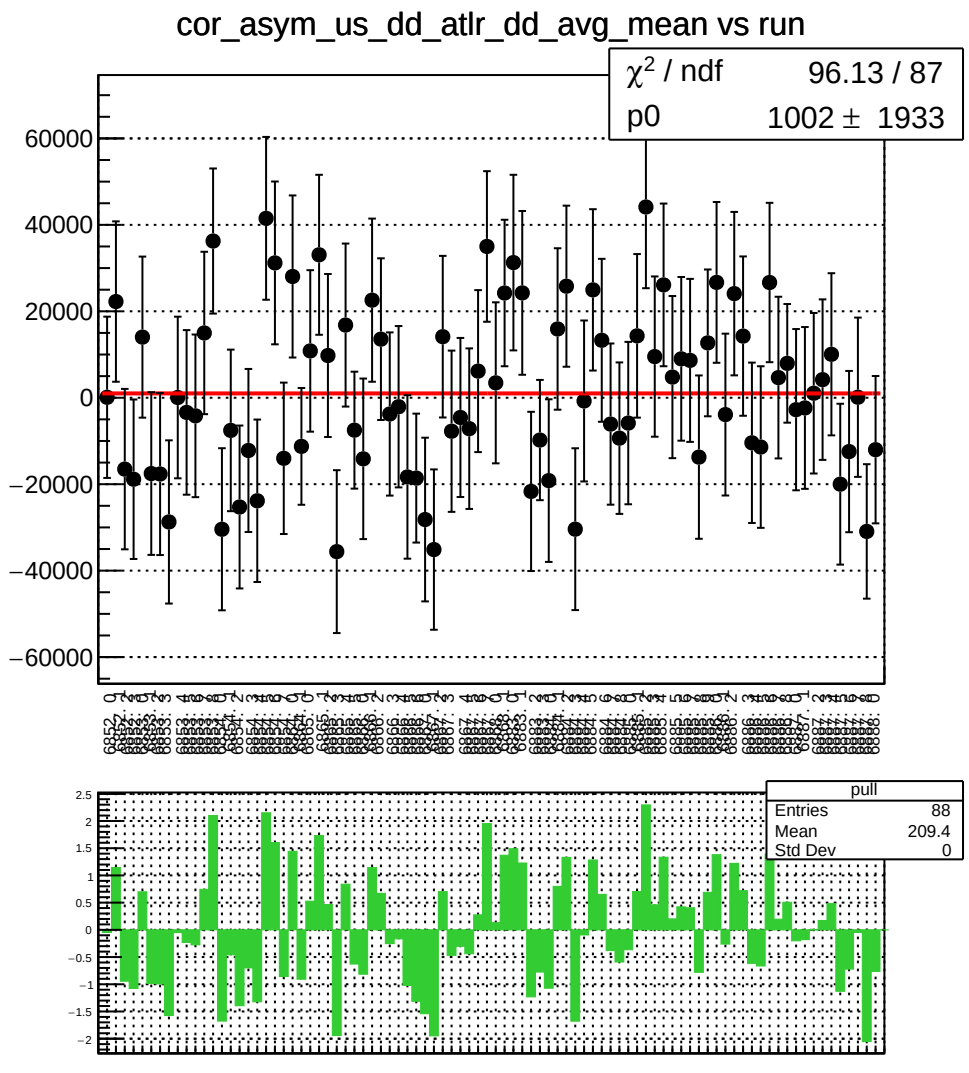

pull1D
Entries 88
Mean 0.01279
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

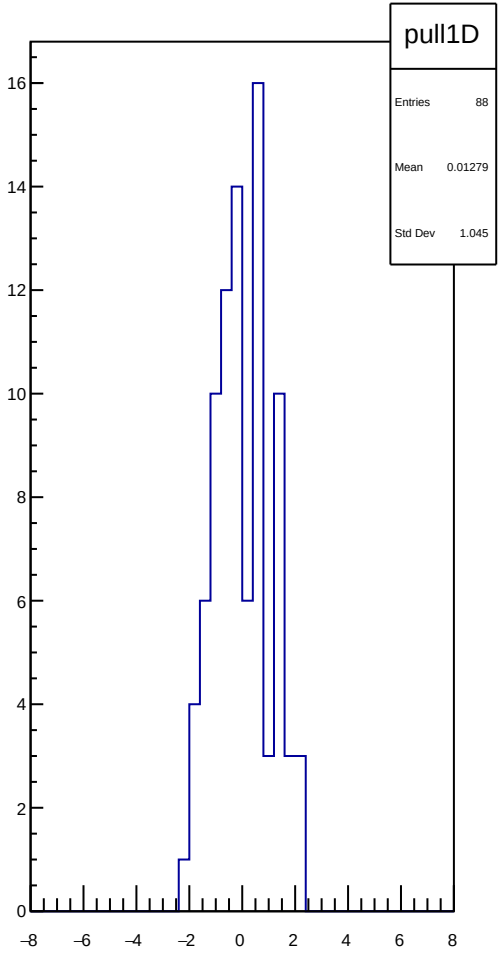

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 203.3 / 87
p0 1777 ± 1.367
1950
1900
1850
1800
1750

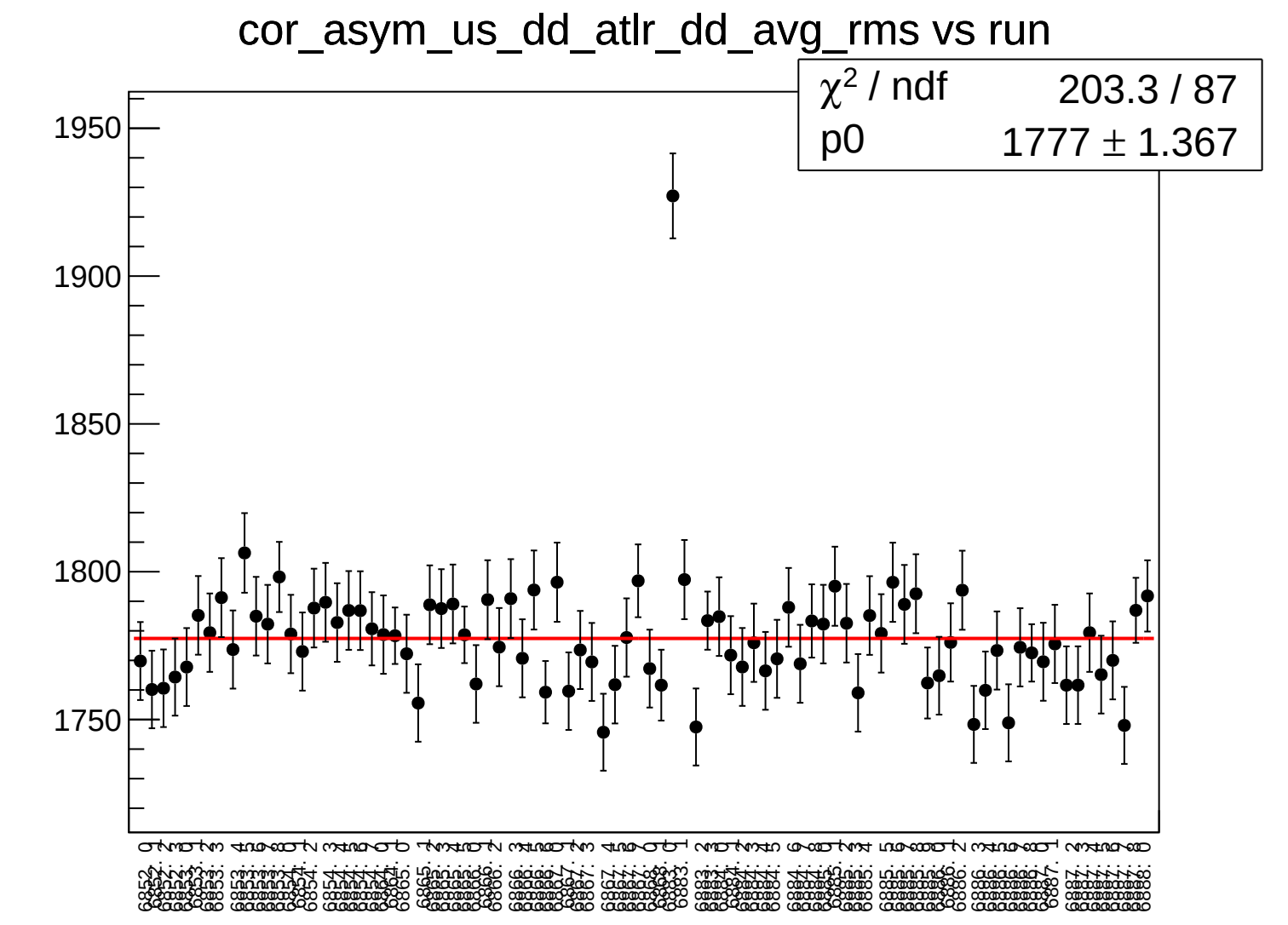

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 93.15 / 87
p0 −2443 ± 964.4
pull
Entries 88
Mean 346.6
Std Dev 0

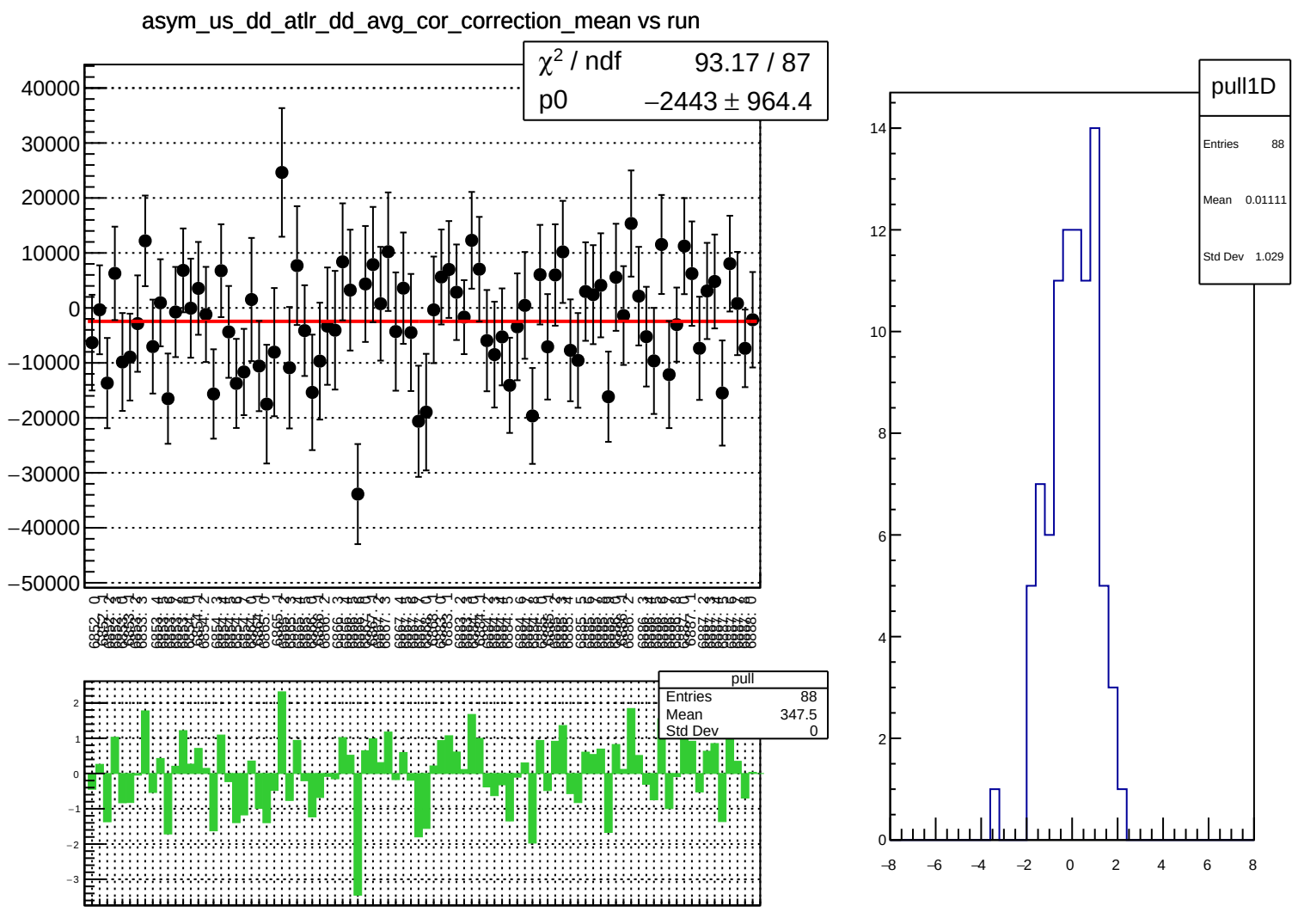

pull1D
Entries 88
Mean 0.01113
Std Dev 1.029

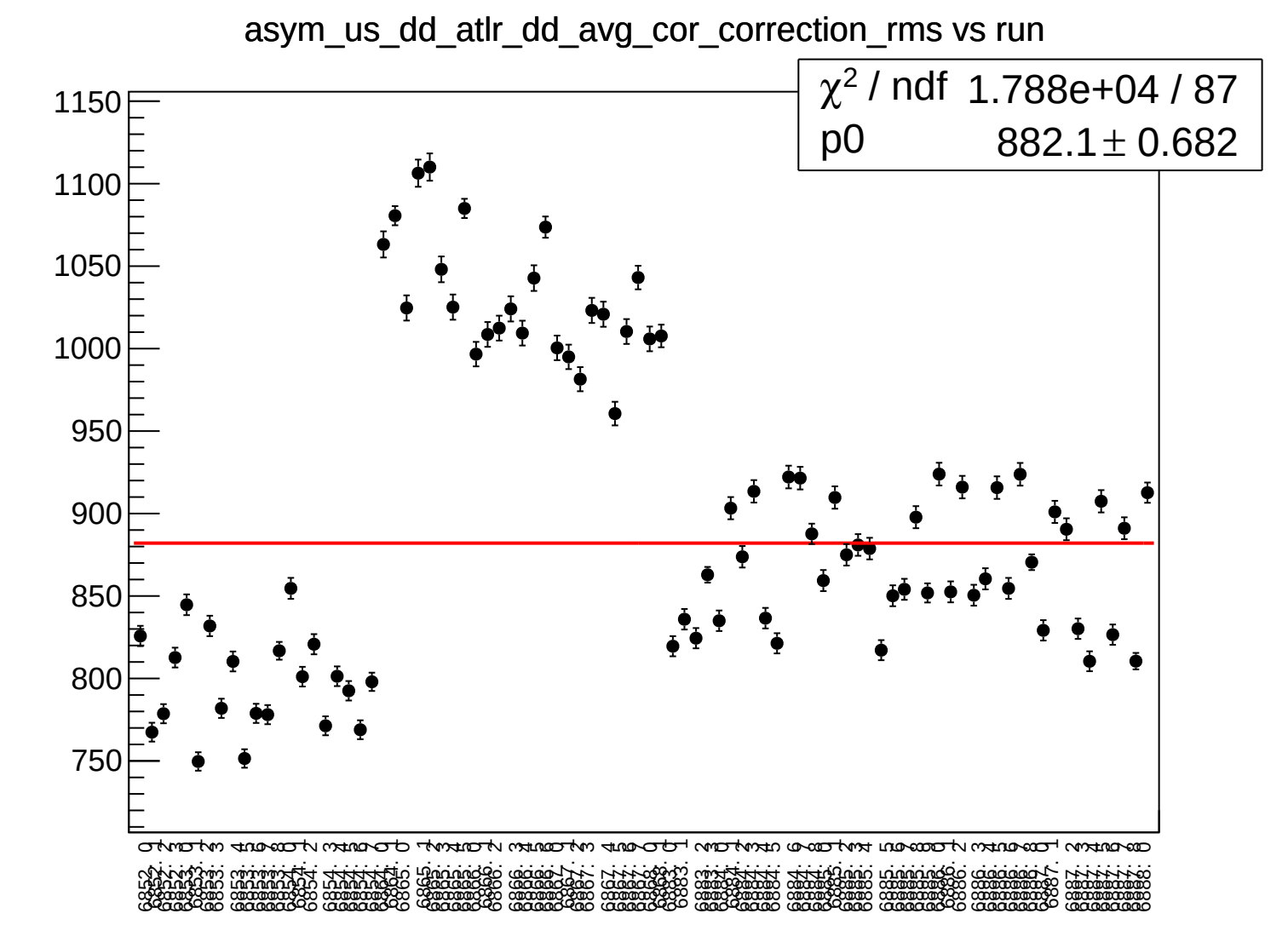

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.788e+04 / 87
p0 882.1 ± 0.682
1150
1100
1050
1000
950
900
850
800
750

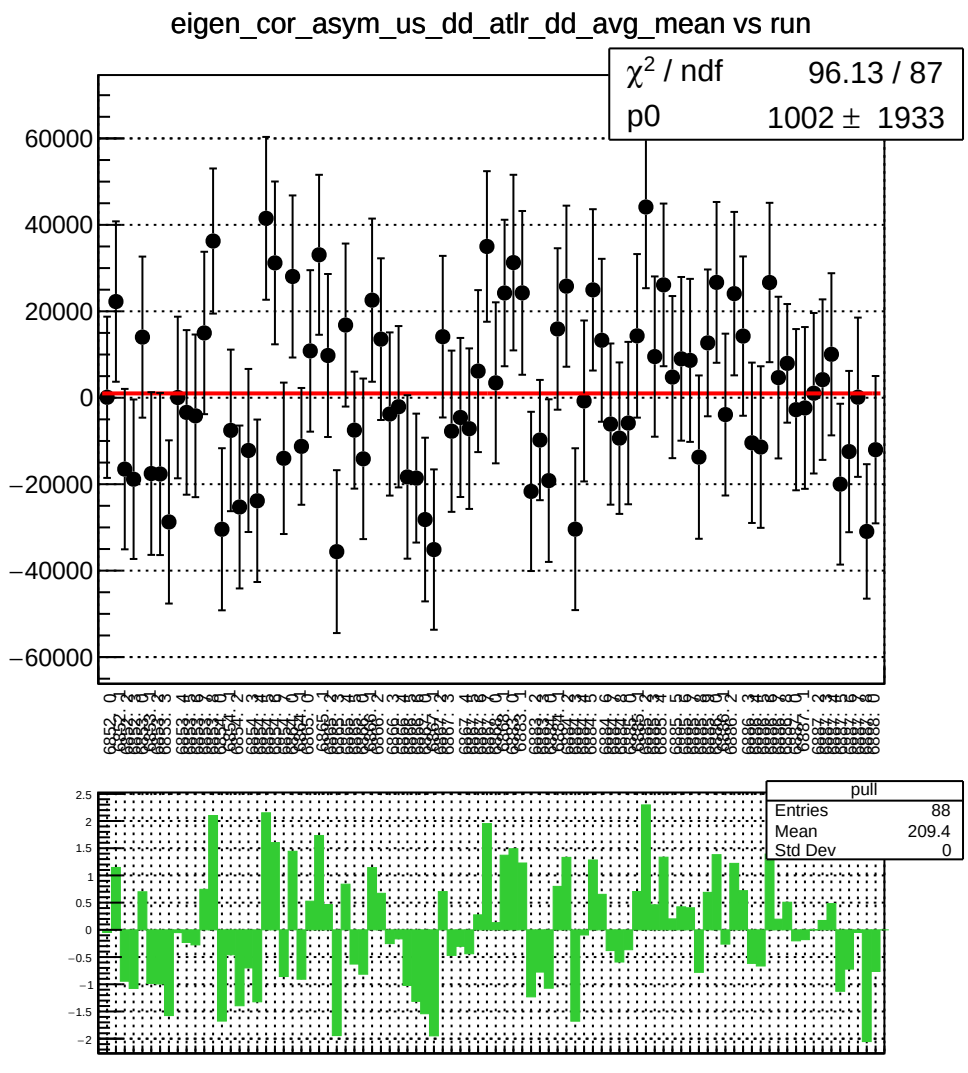

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.13 / 87
p0 1002 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 209.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

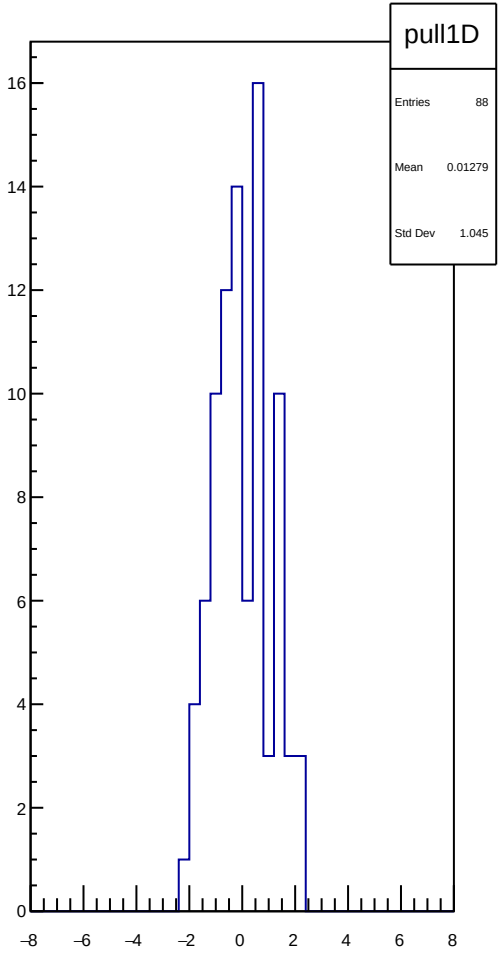

pull1D
Entries 88
Mean 0.01279
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

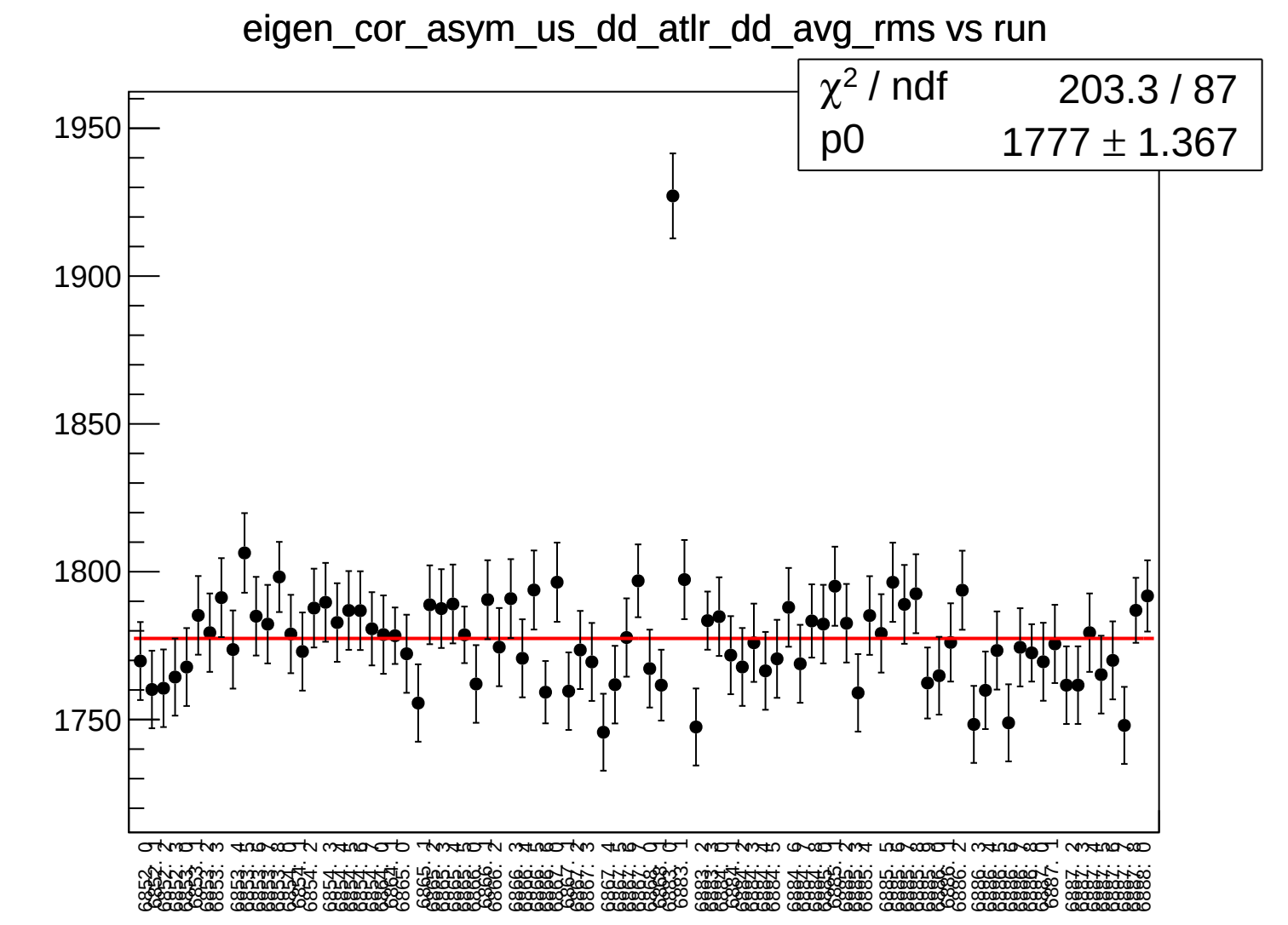

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 203.3 / 87
p0 1777 ± 1.367
1950
1900
1850
1800
1750

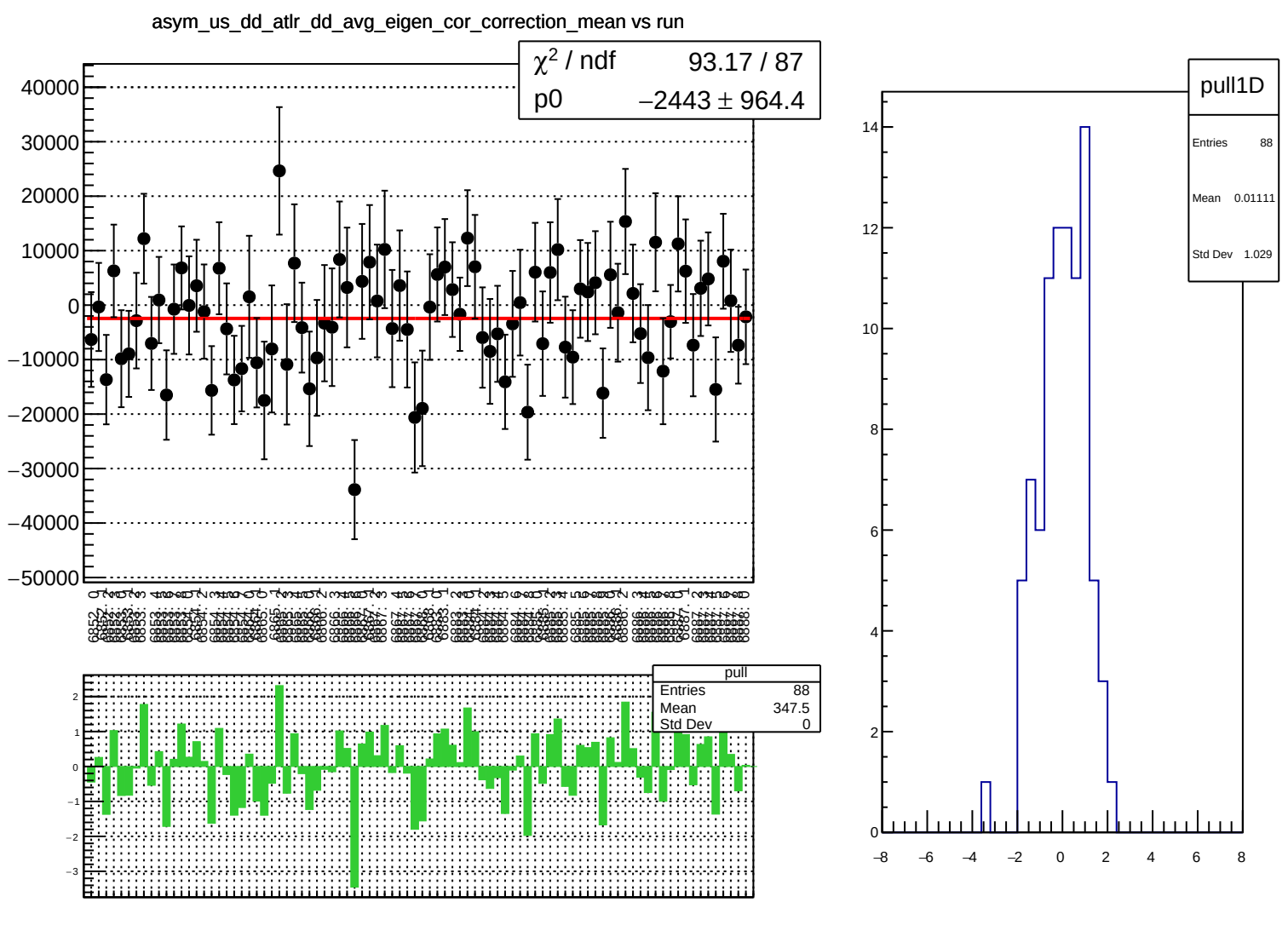

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 93.17 / 87
p0 −2443 ± 964.4
pull
Entries 88
Mean 347.5
Std Dev 0
pull1D
Entries 88
Mean 0.01111
Std Dev 1.029

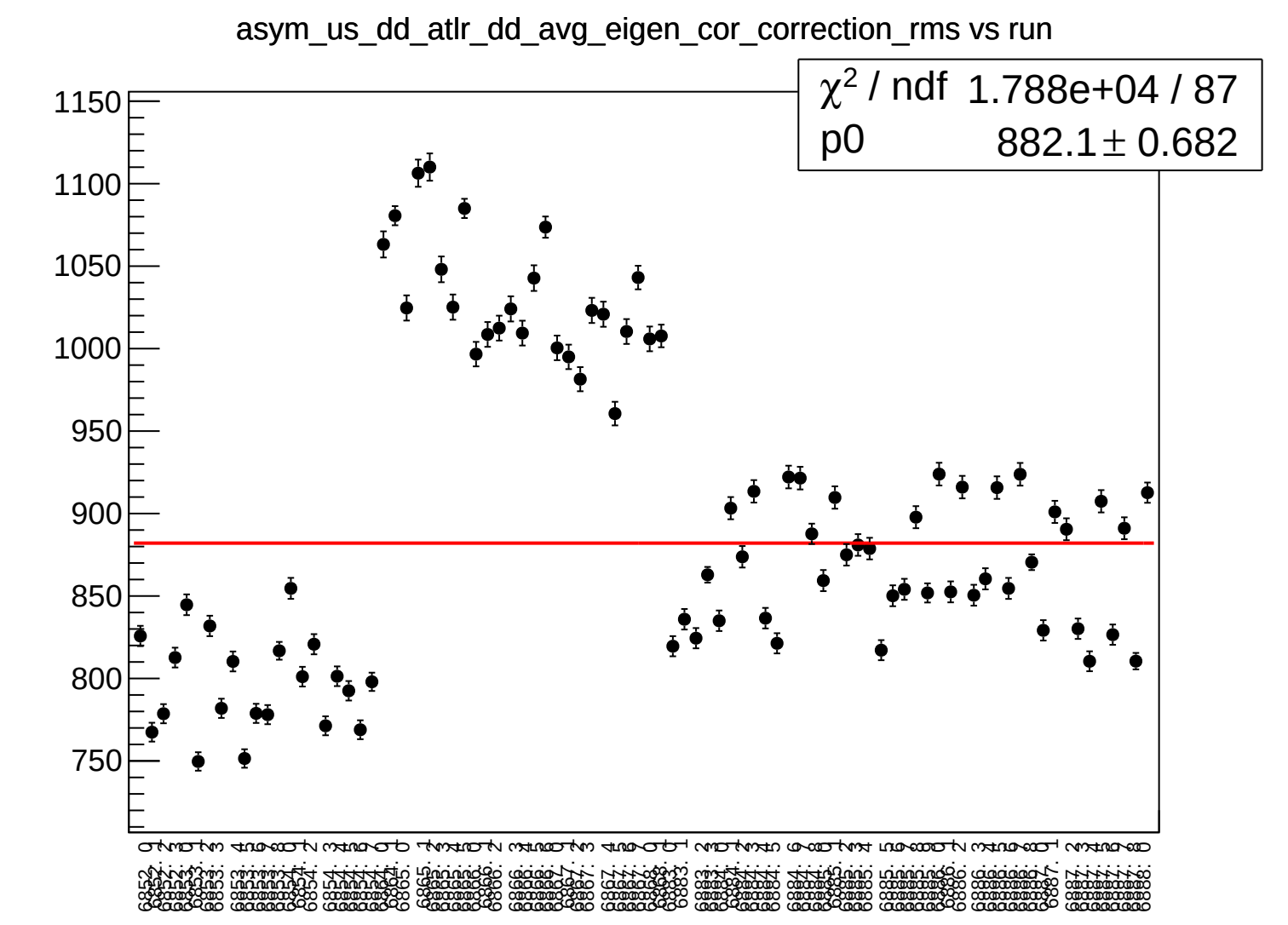

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.788e+04 / 87
p0 882.1 ± 0.682
1150
1100
1050
1000
950
900
850
800
750

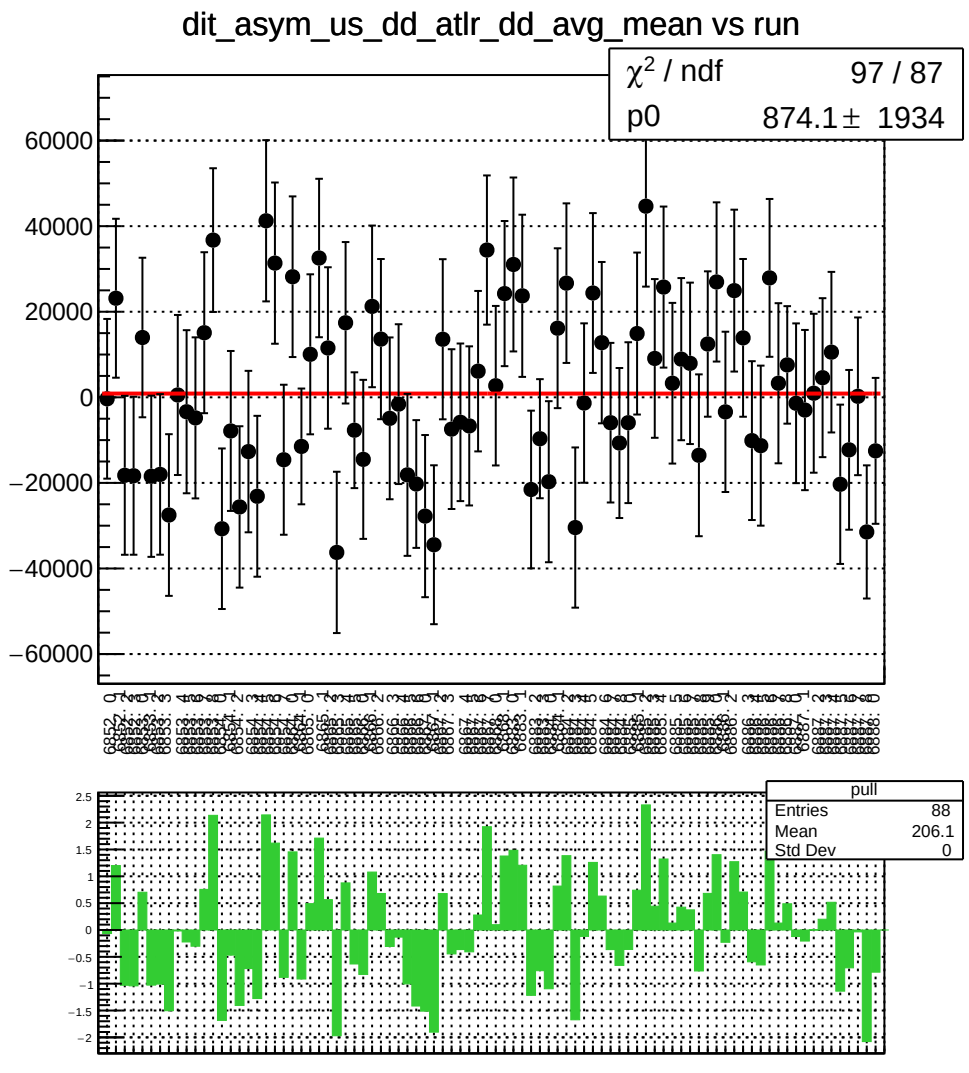

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.13 / 87
p0 1002 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 209.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

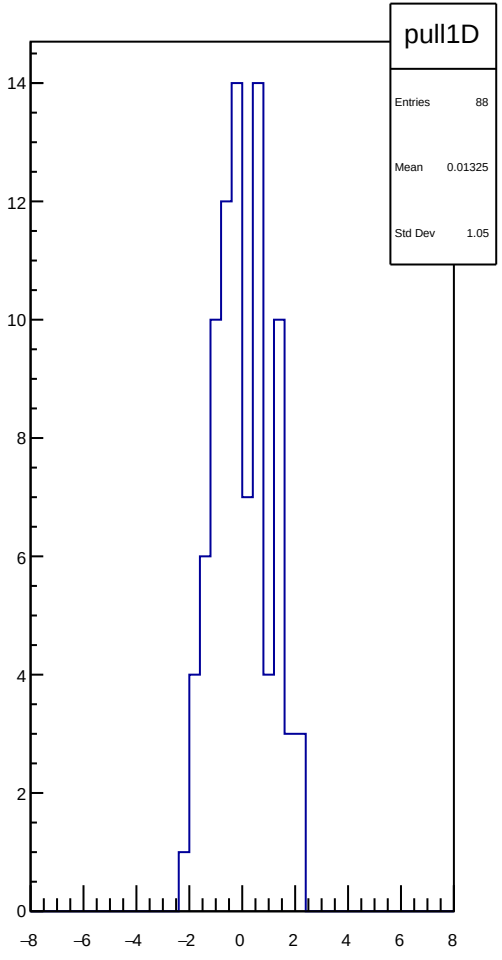

pull1D
Entries 88
Mean 0.01279
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

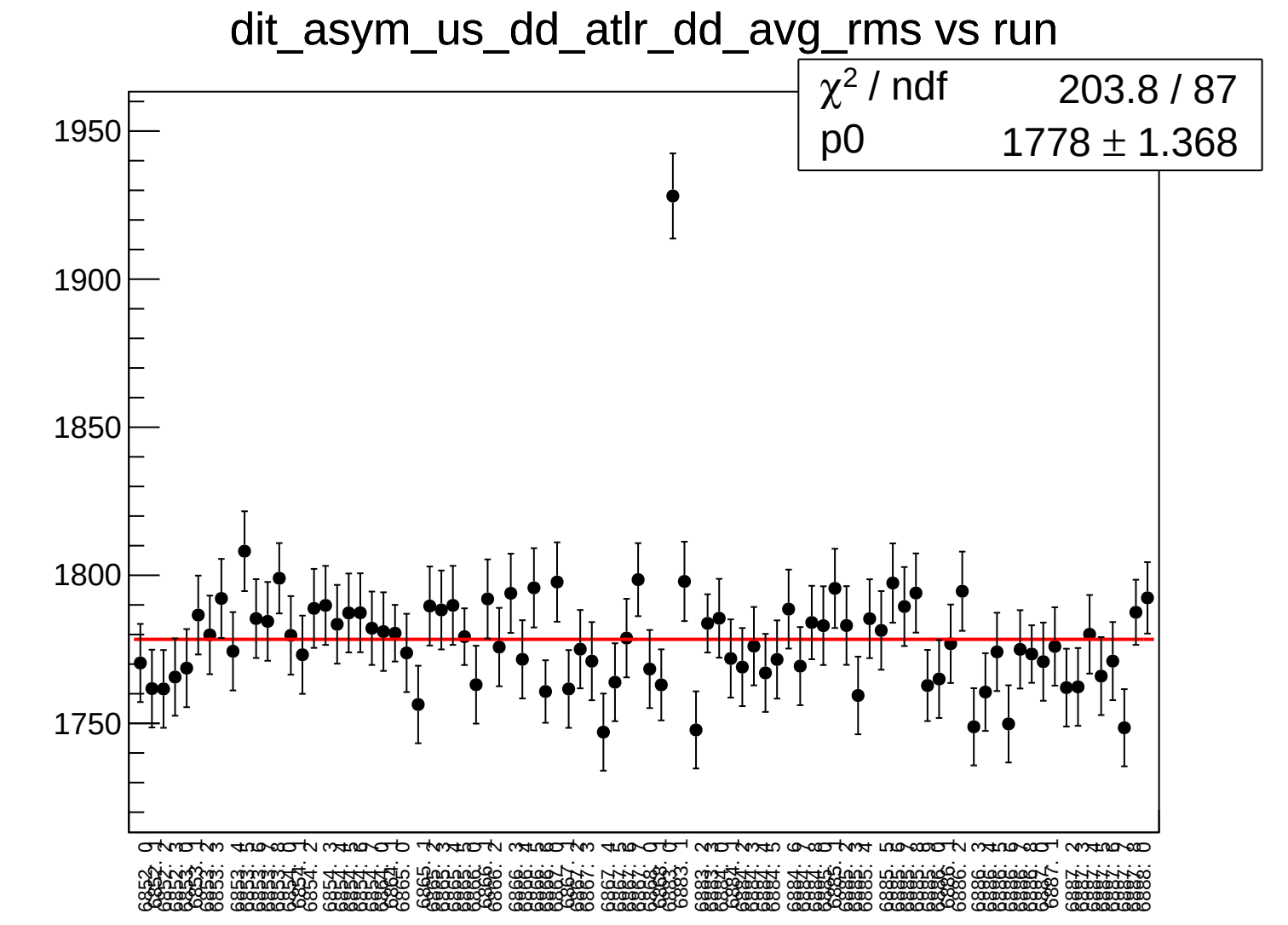

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 203.3 / 87
p0 1777 ± 1.367
1950
1900
1850
1800
1750

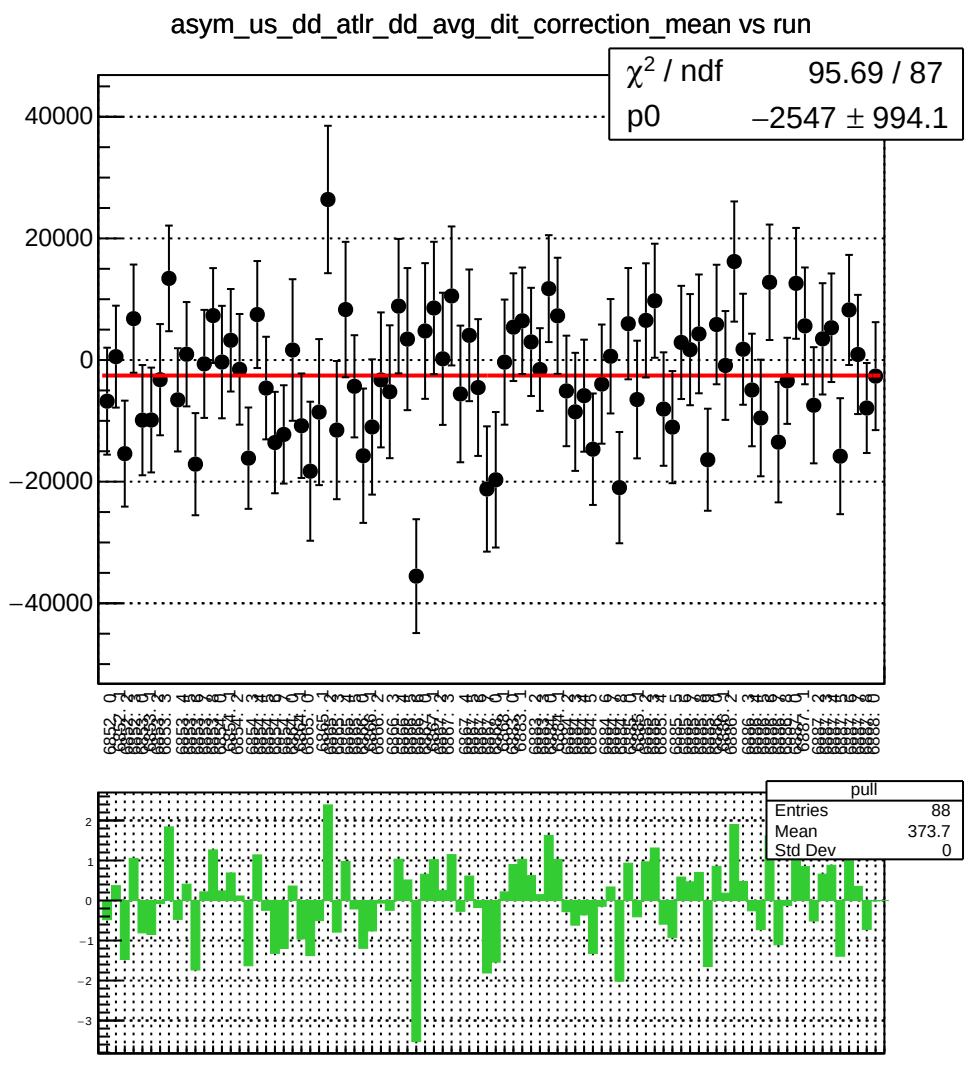

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 93.17 / 87
p0 −2443 ± 964.4
pull
Entries 88
Mean 347.5
Std Dev 0
pull1D
Entries 88
Mean 0.01111
Std Dev 1.029

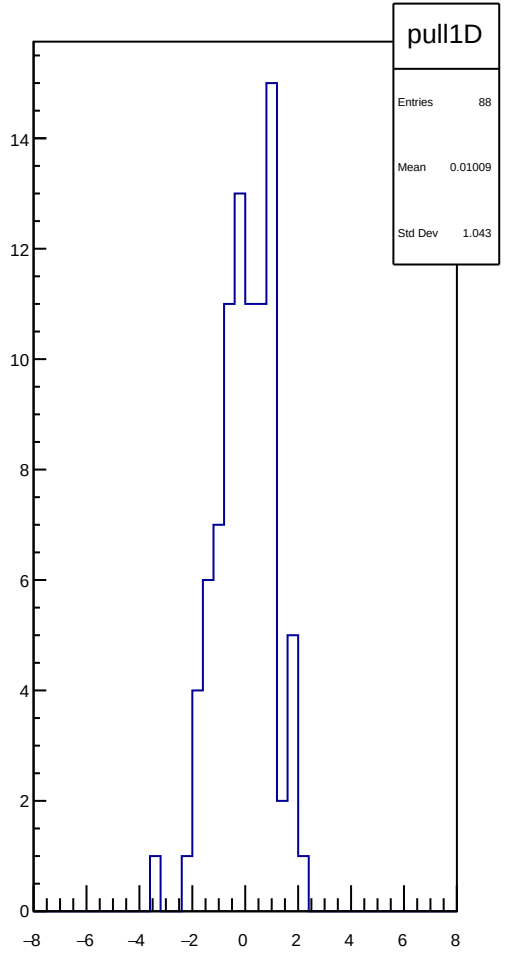

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.788e+04 / 87
p0 882.1 ± 0.682
1150
1100
1050
1000
950
900
850
800
750

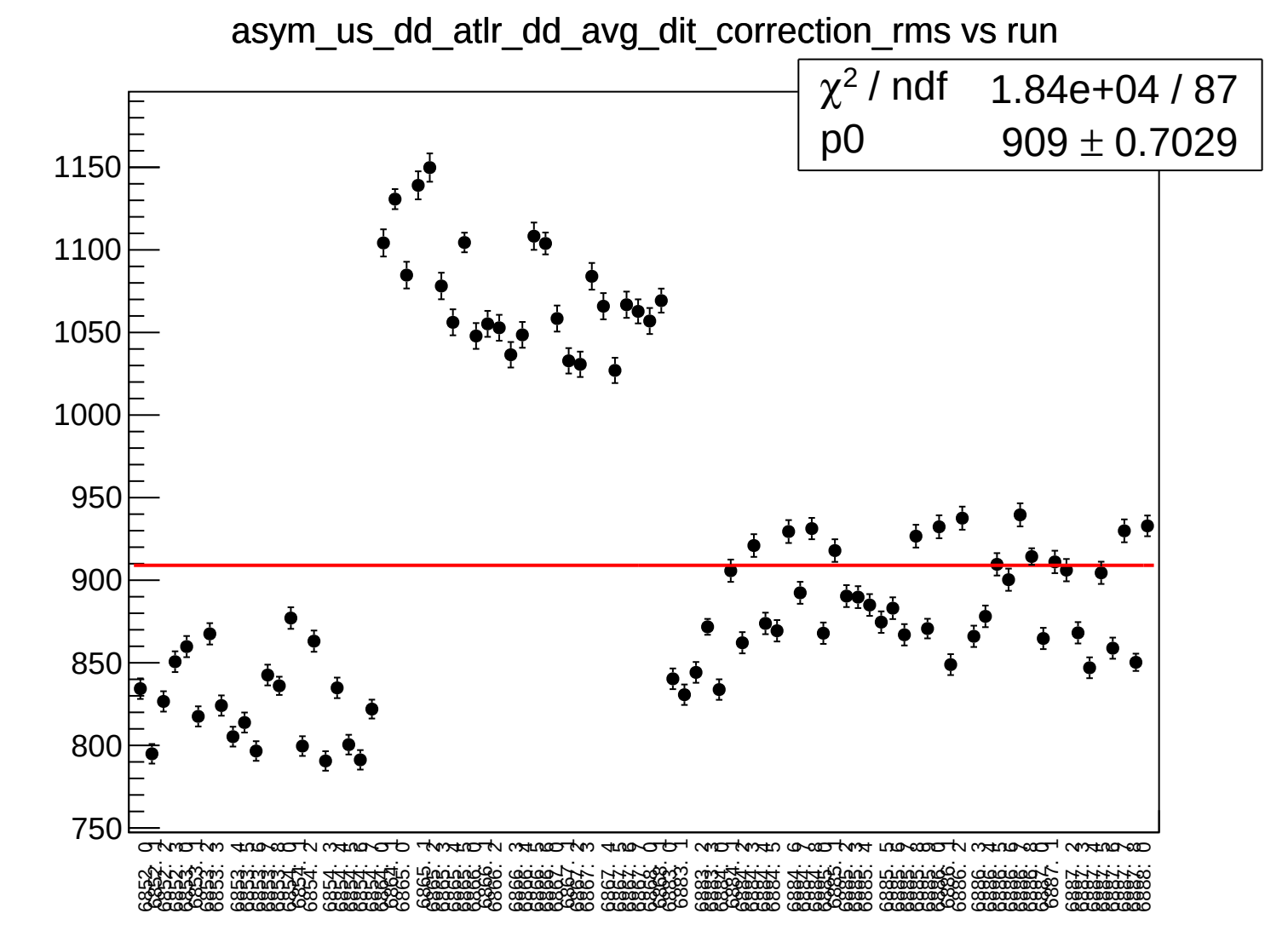

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 97 / 87
p0 874.1 ± 1934
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 206.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

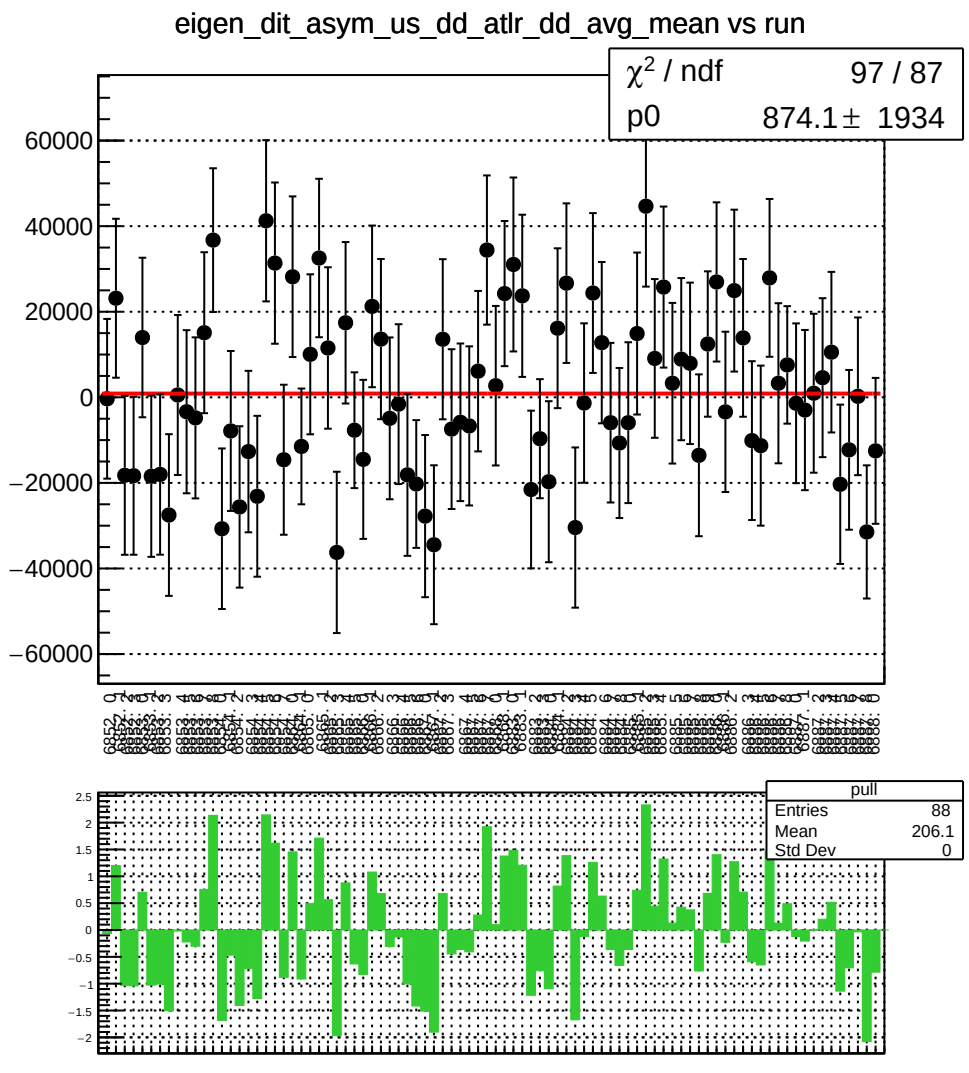

pull1D
Entries 88
Mean 0.01325
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

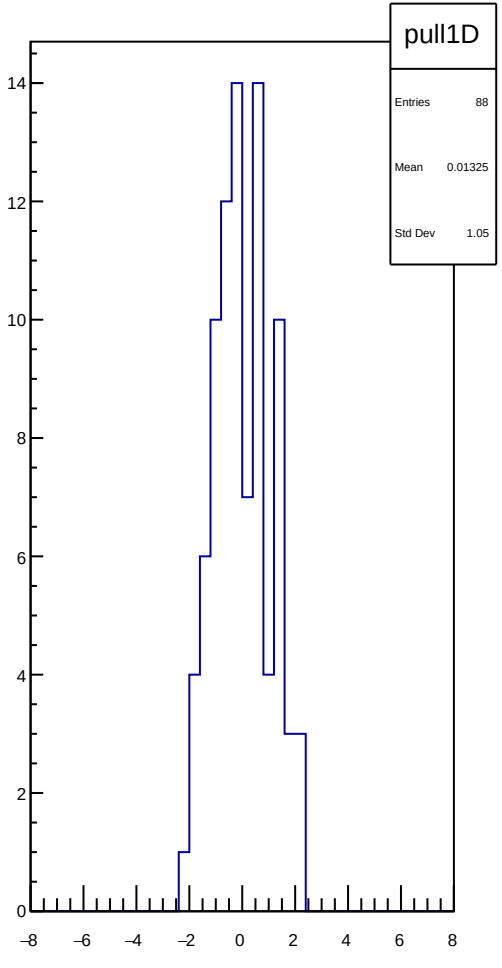

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 203.8 / 87
p0 1778 ± 1.368
1950
1900
1850
1800
1750

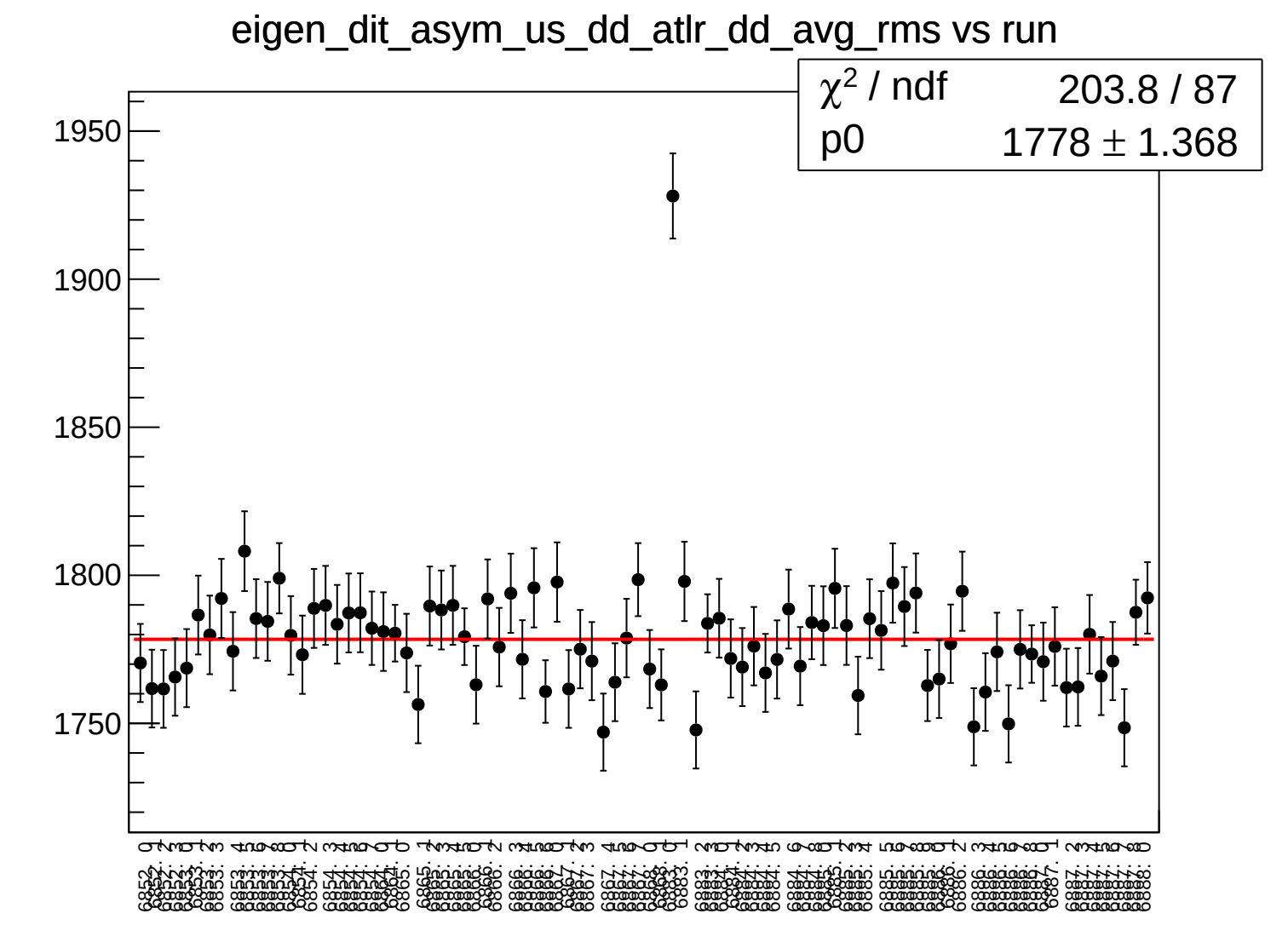

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 95.69 / 87
p0 −2547 ± 994.1
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 373.7
Std Dev 0
2
1
0
−1
−2
−3

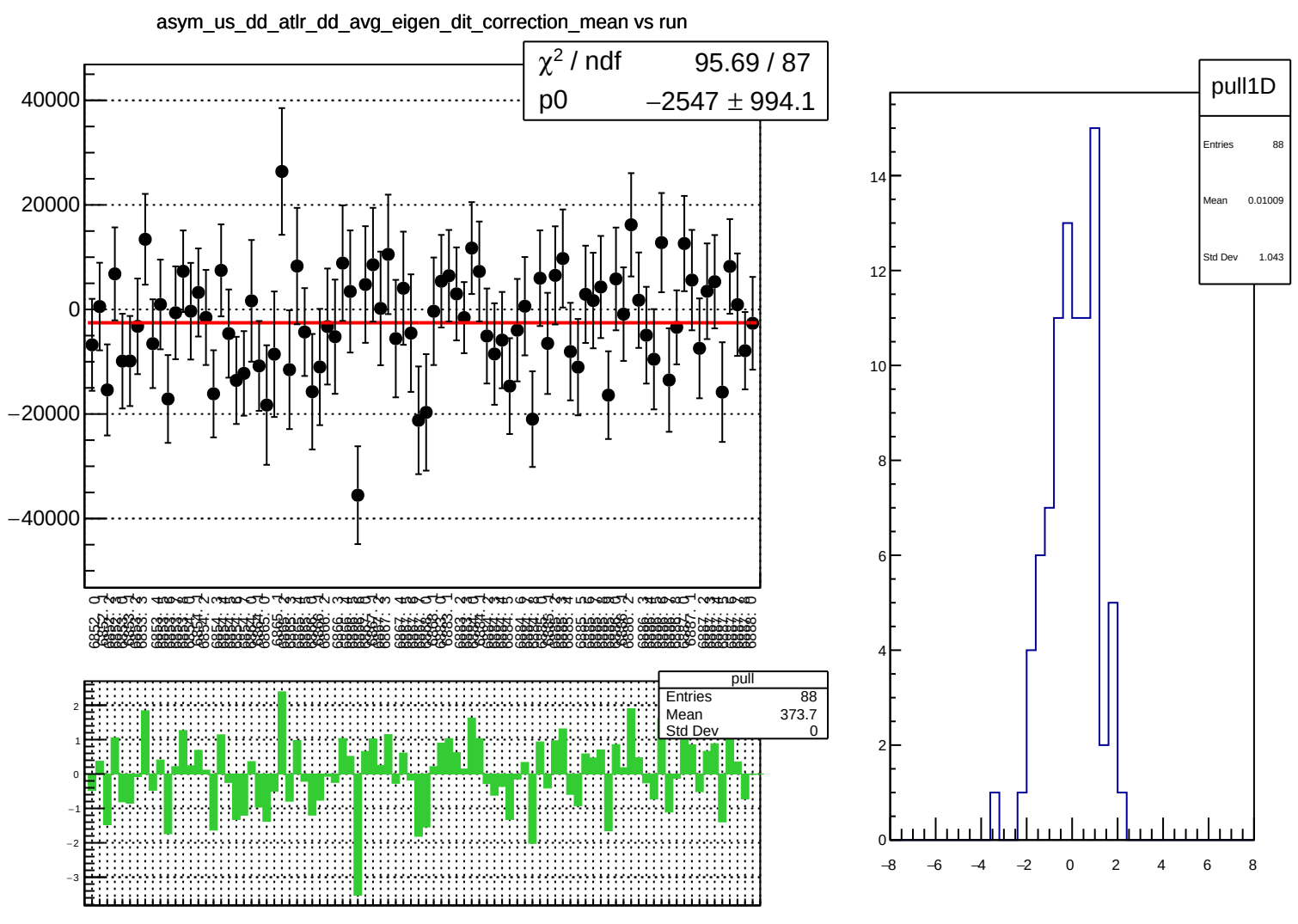

pull1D
Entries 88
Mean 0.01009
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

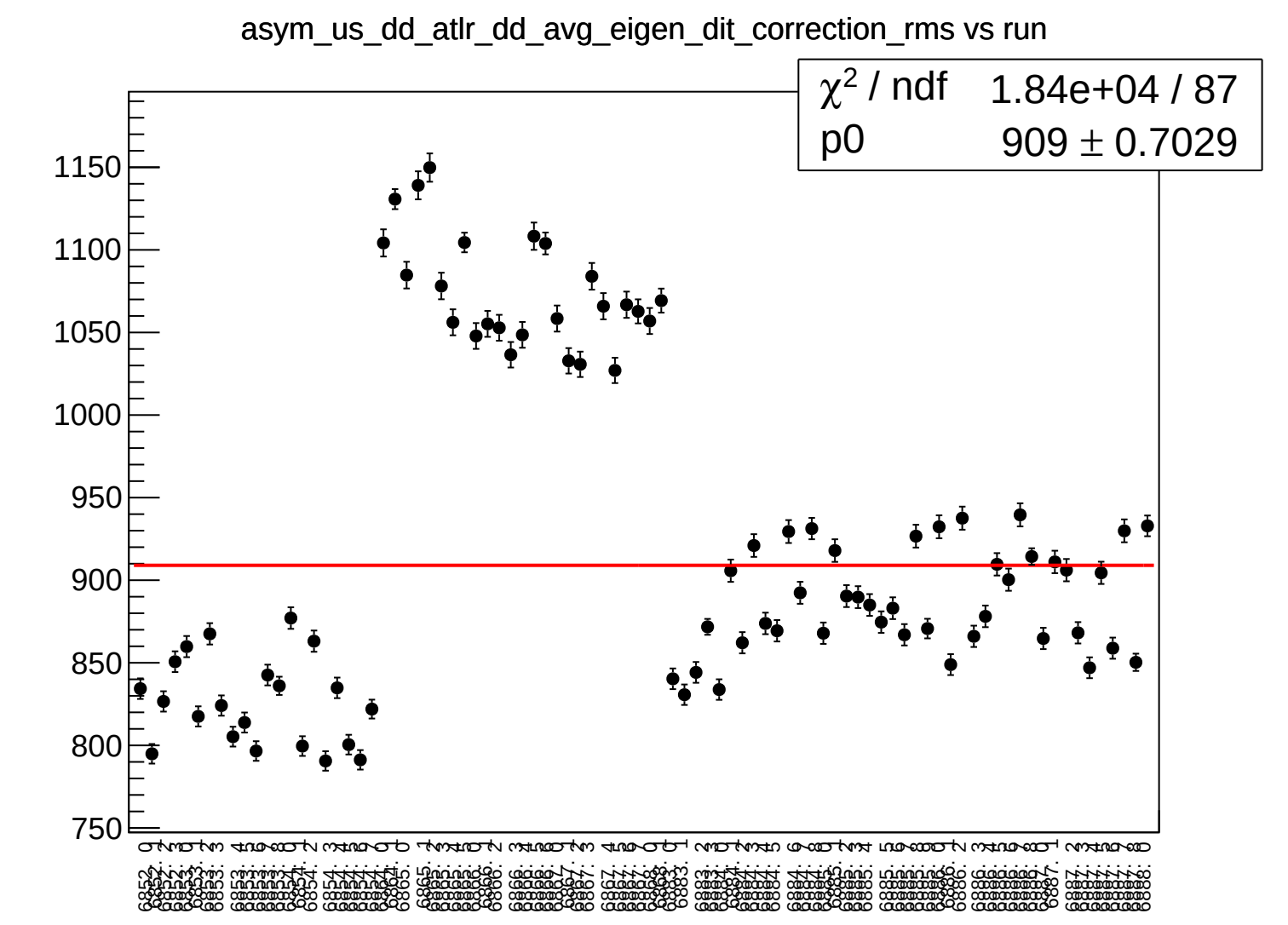

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.84e+04 / 87
p0 909 ± 0.7029
1150
1100
1050
1000
950
900
850
800
750

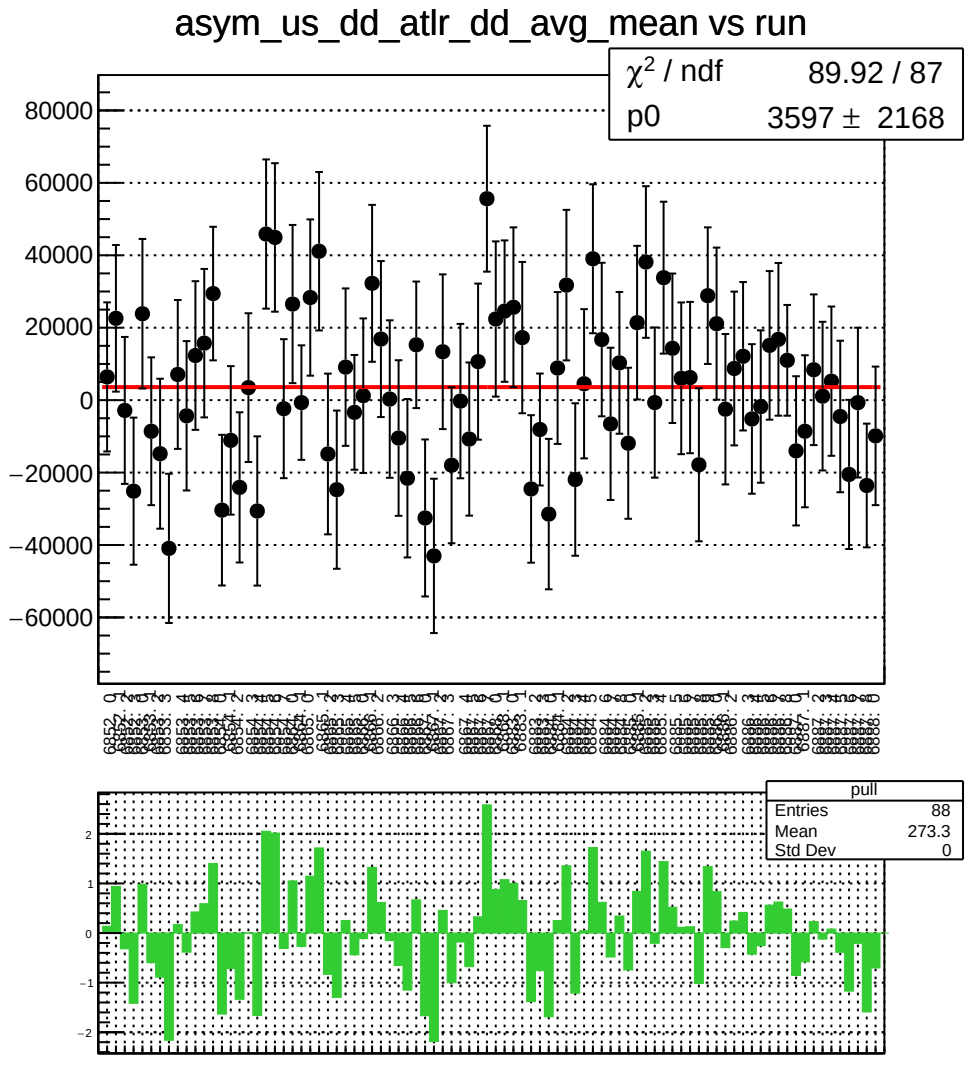

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 97 / 87
p0 874.1 ± 1934
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 206.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

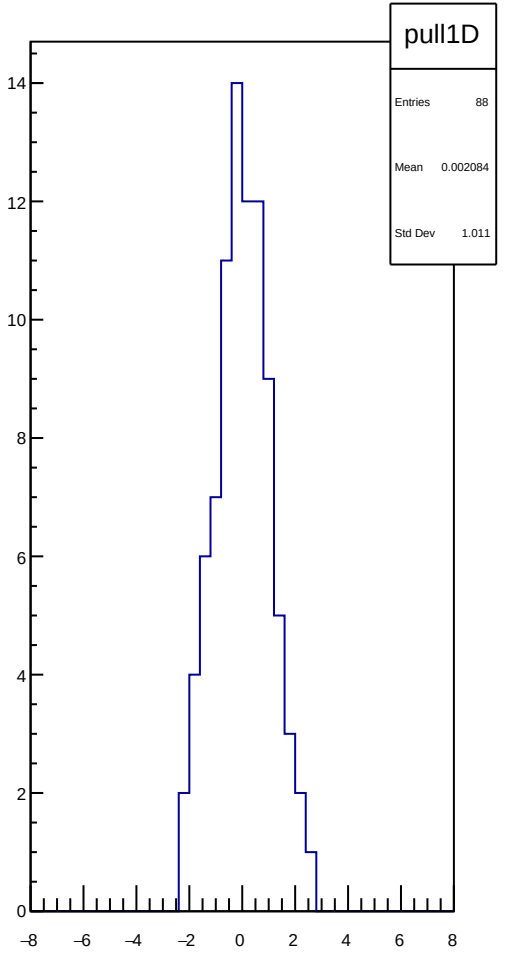

pull1D
Entries 88
Mean 0.01325
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

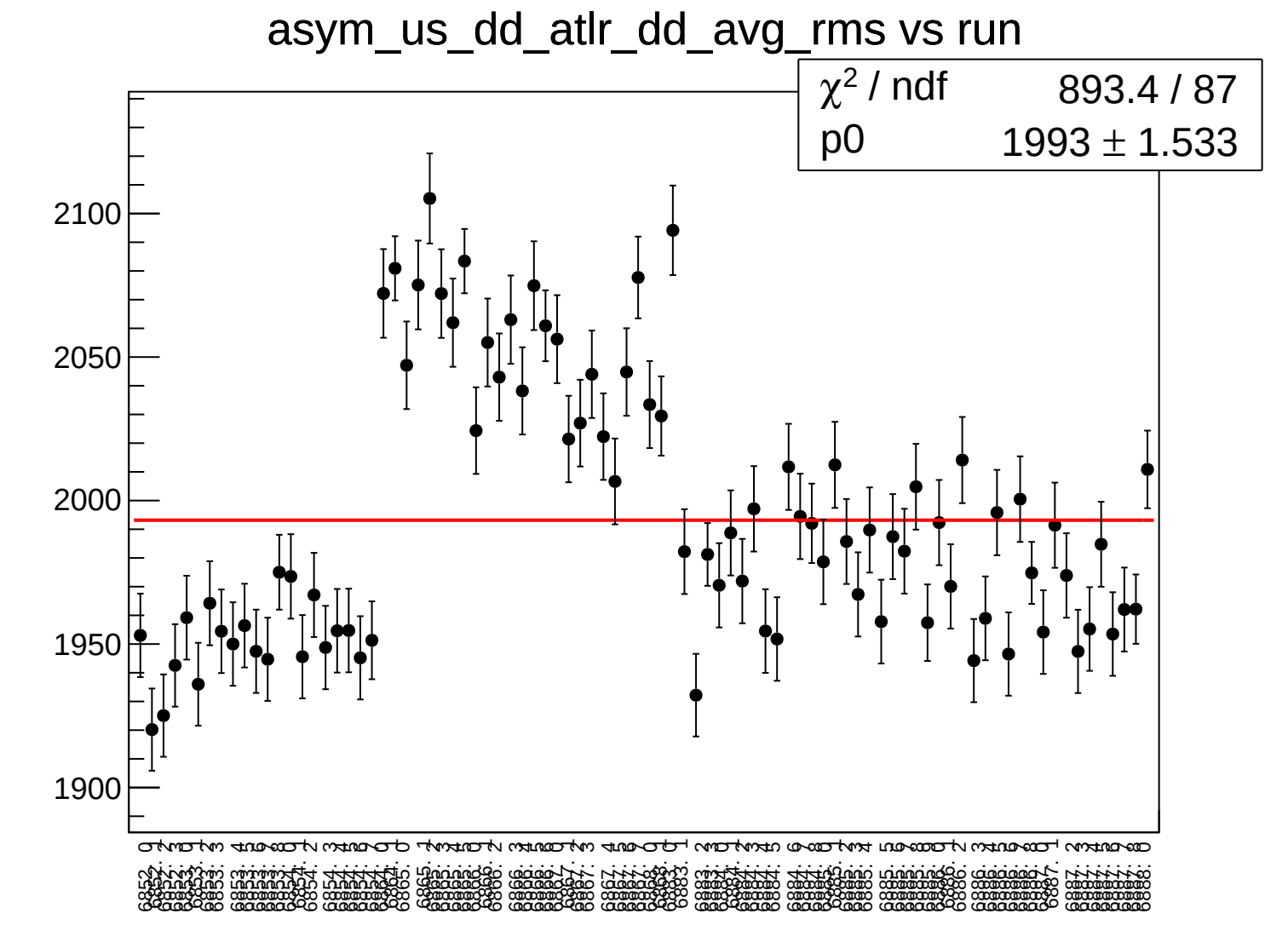

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 203.8 / 87
p0 1778 ± 1.368
1950
1900
1850
1800
1750

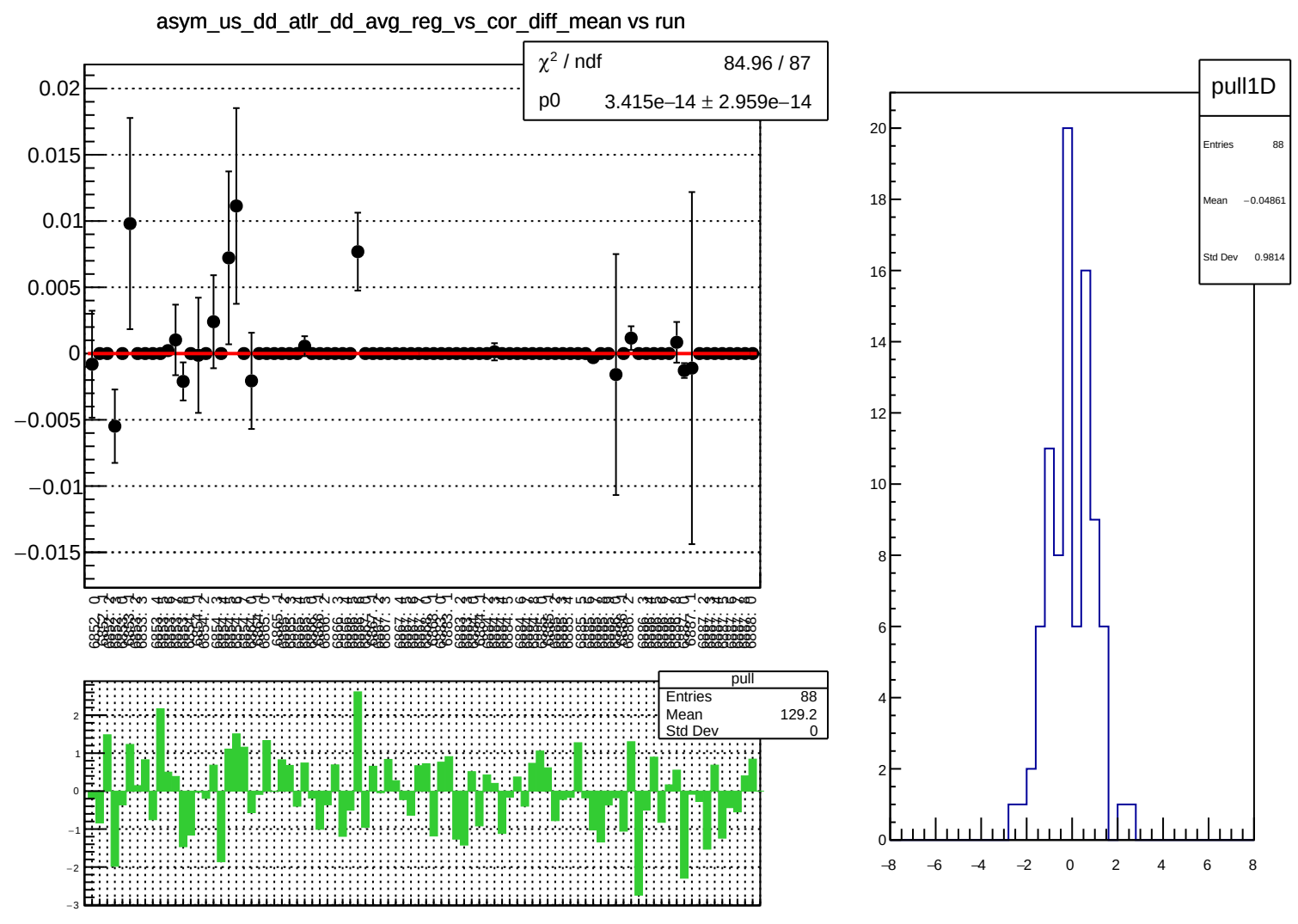

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.69 / 87
p0 −2547 ± 994.1
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 373.7
Std Dev 0
pull1D
Entries 88
Mean 0.01009
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

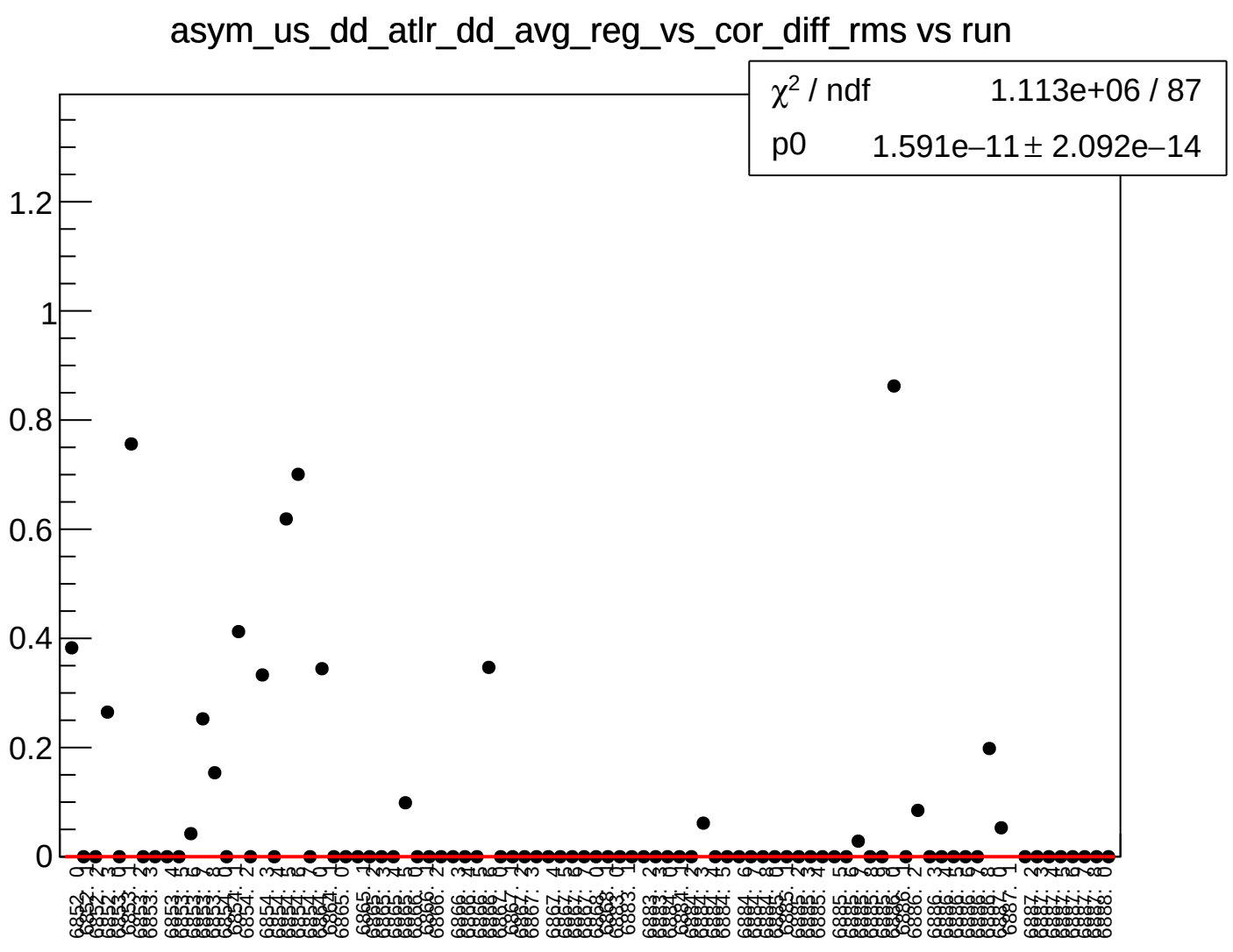

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.84e+04 / 87
p0 909 ± 0.7029
1150
1100
1050
1000
950
900
850
800
750

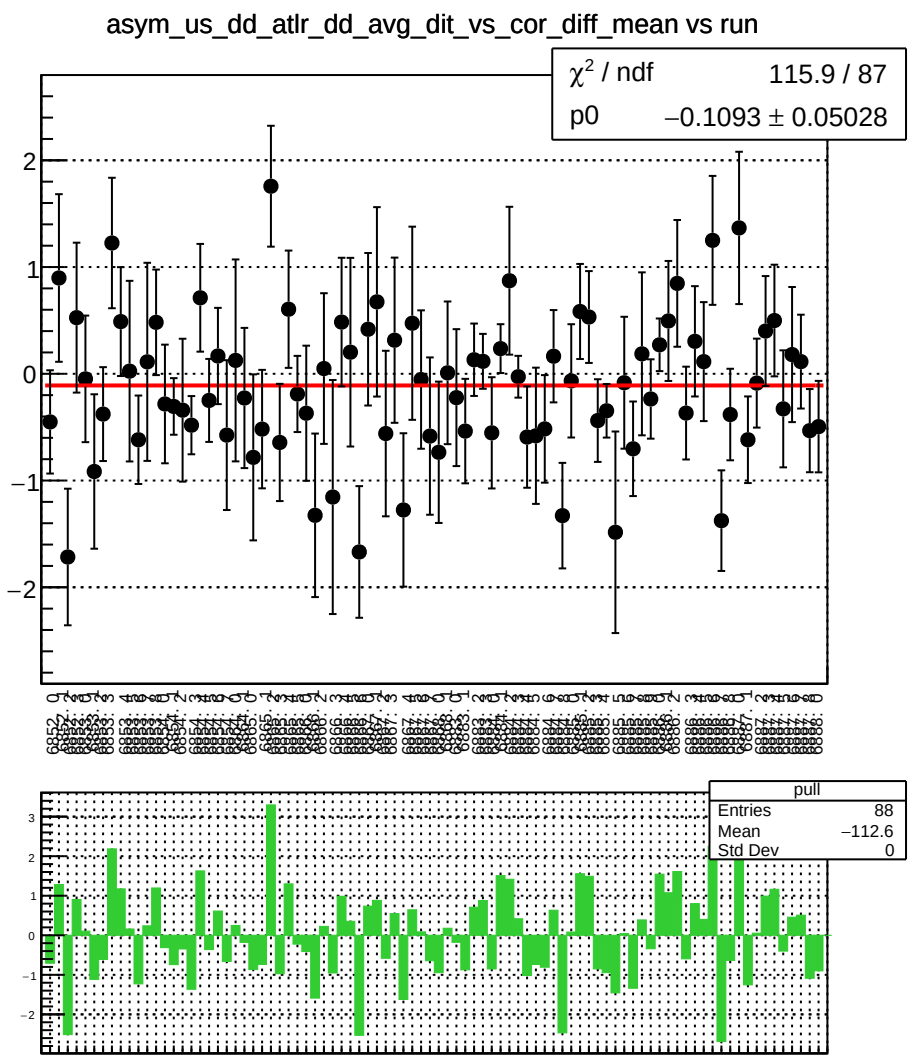

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 89.92 / 87
p0 3597 ± 2168
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 273.3
Std Dev 0
2
1
0
−1
−2

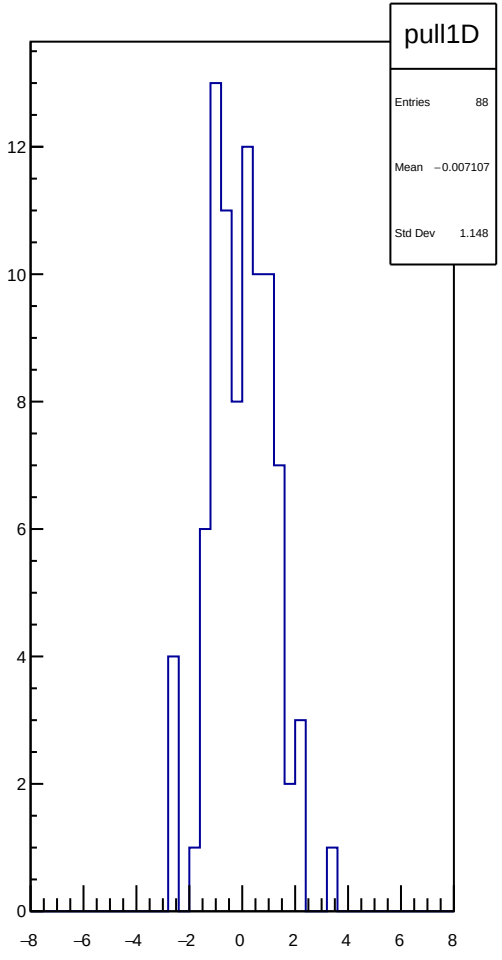

pull1D
Entries 88
Mean 0.002084
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

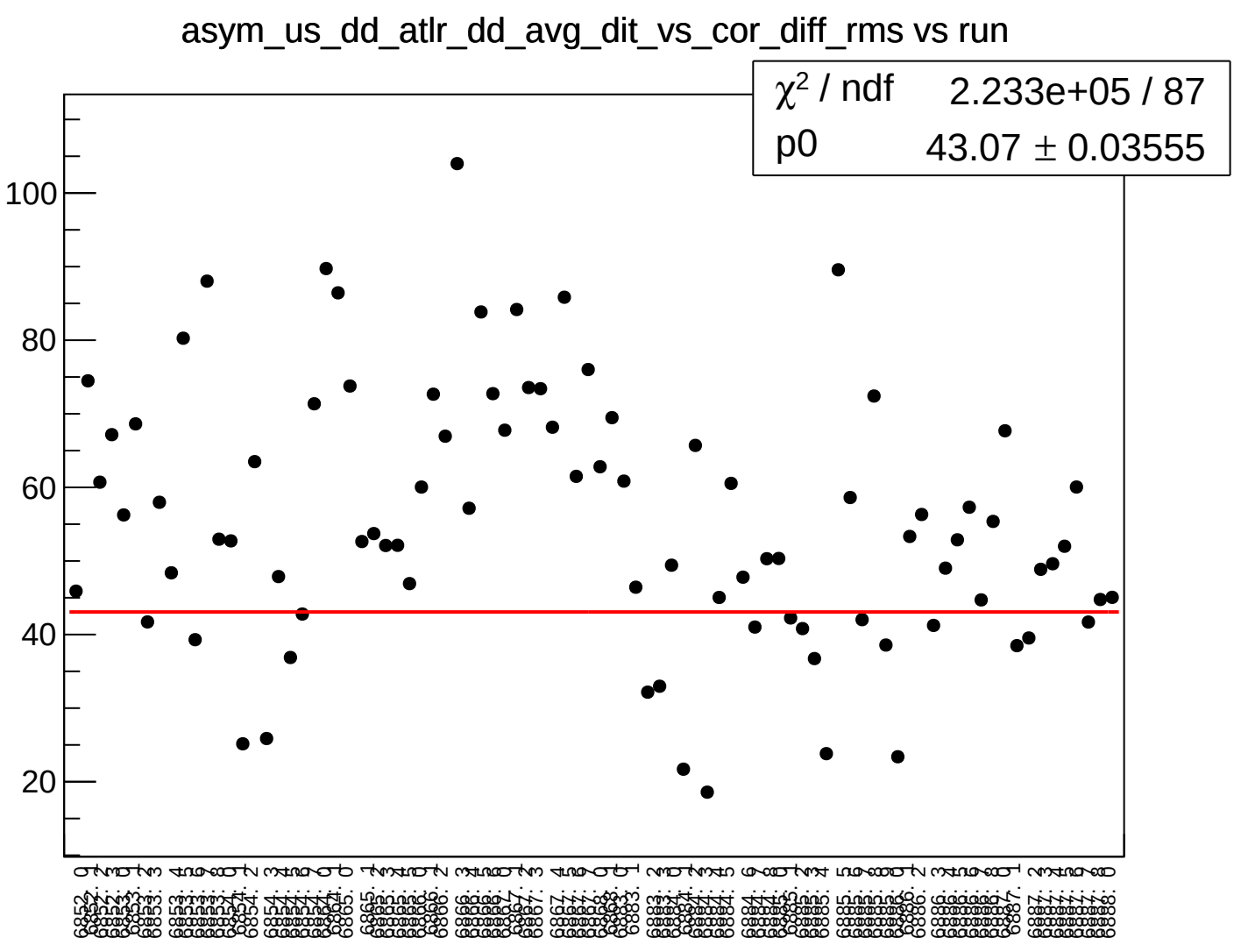

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 893.4 / 87
p0 1993 ± 1.533
2100
2050
2000
1950
1900

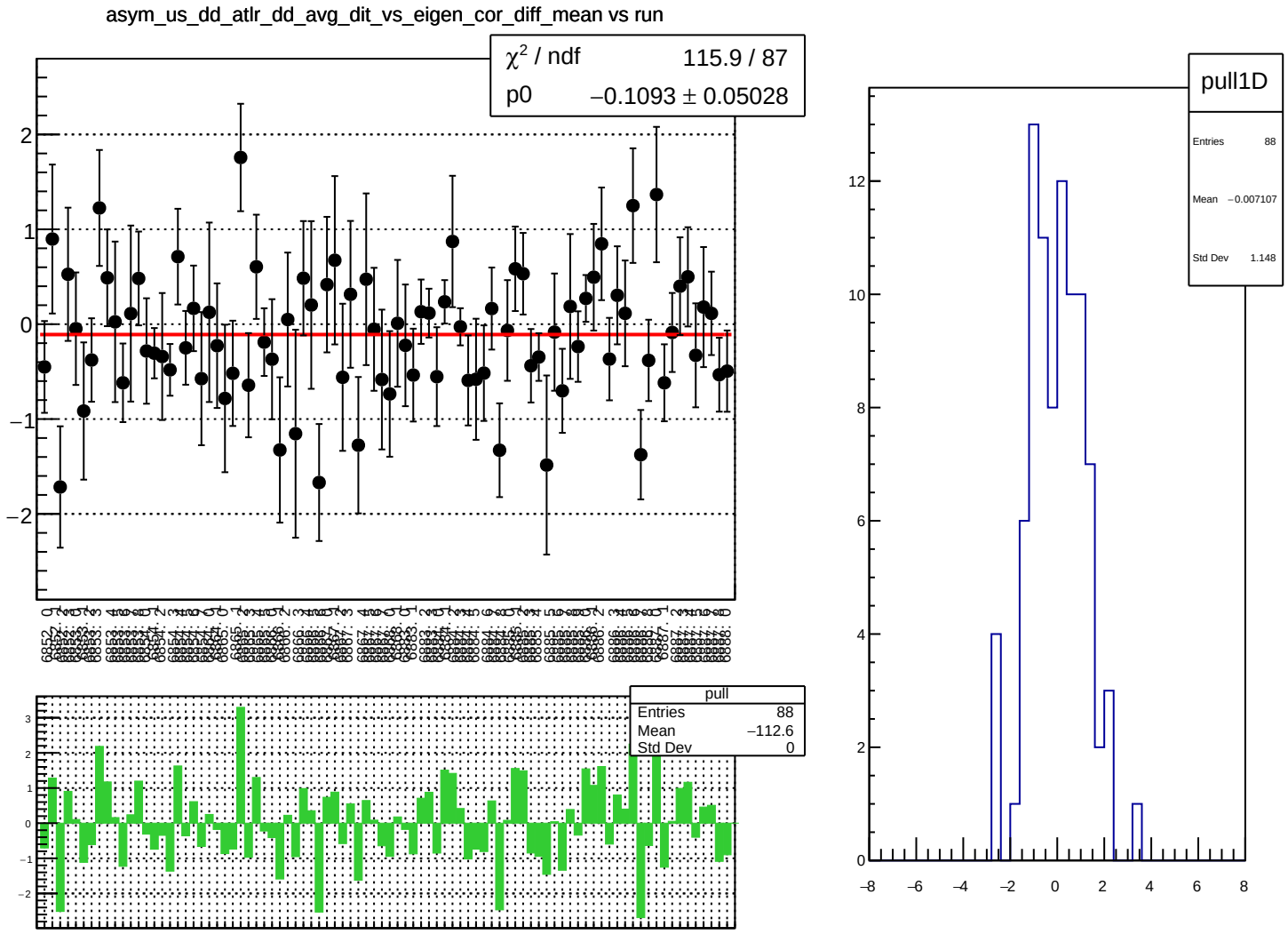

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.96 / 87
p0 3.415e−14 ± 2.959e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 88
Mean 129.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.04861
Std Dev 0.9814
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

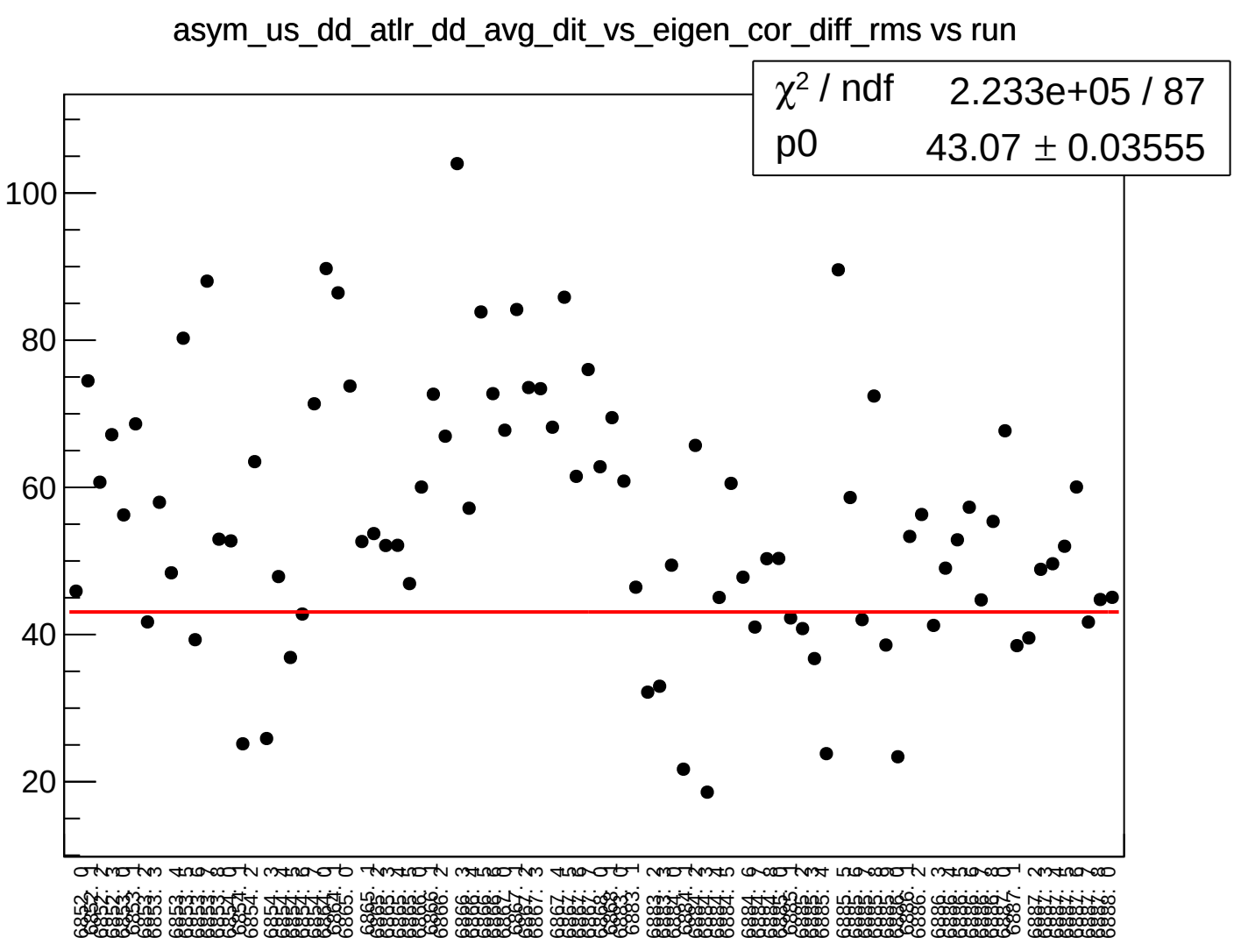

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.113e+06 / 87
p0 1.591e−11 ± 2.092e−14
1.2
1
0.8
0.6
0.4
0.2
0

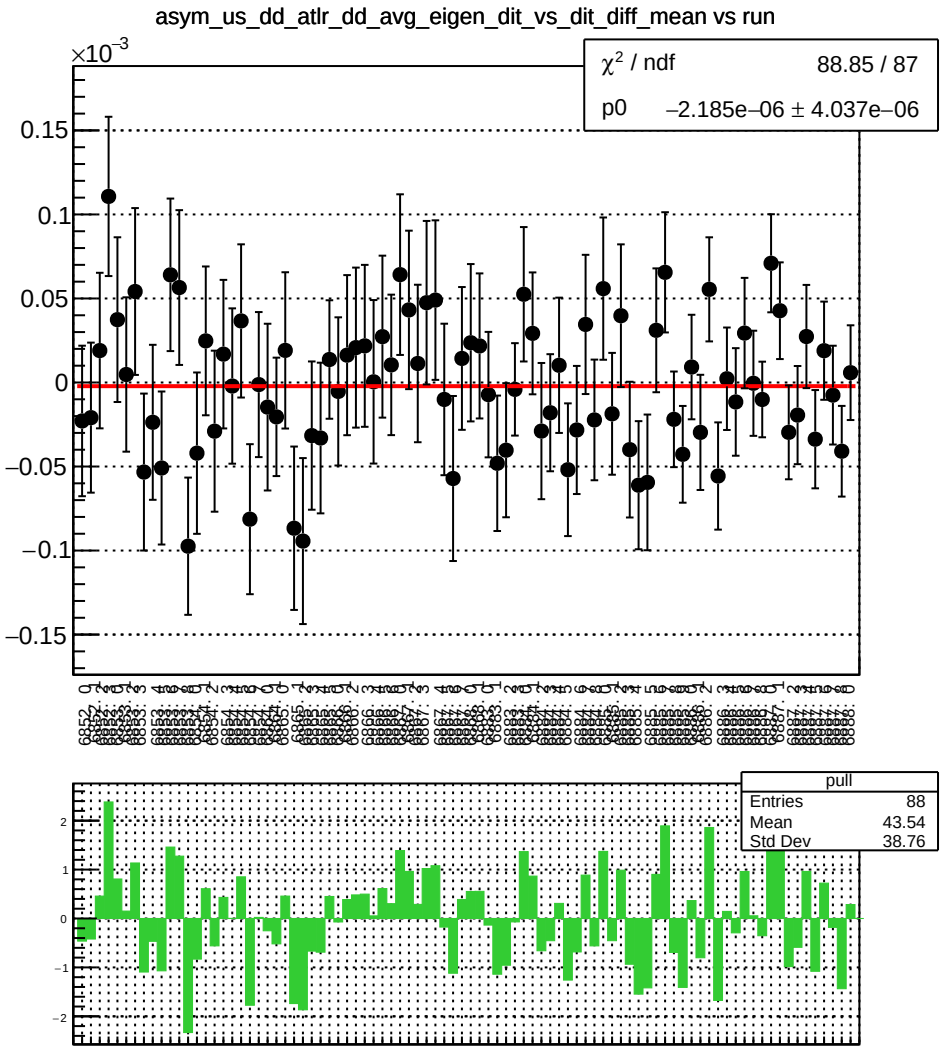

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 115.9 / 87
p0 −0.1093 ± 0.05028
pull
Entries 88
Mean −112.6
Std Dev 0

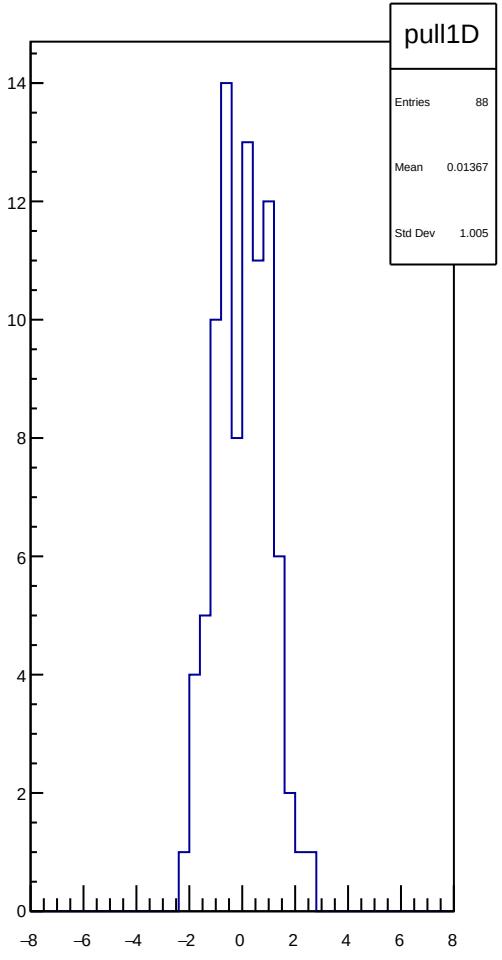

pull1D
Entries 88
Mean −0.007107
Std Dev 1.148

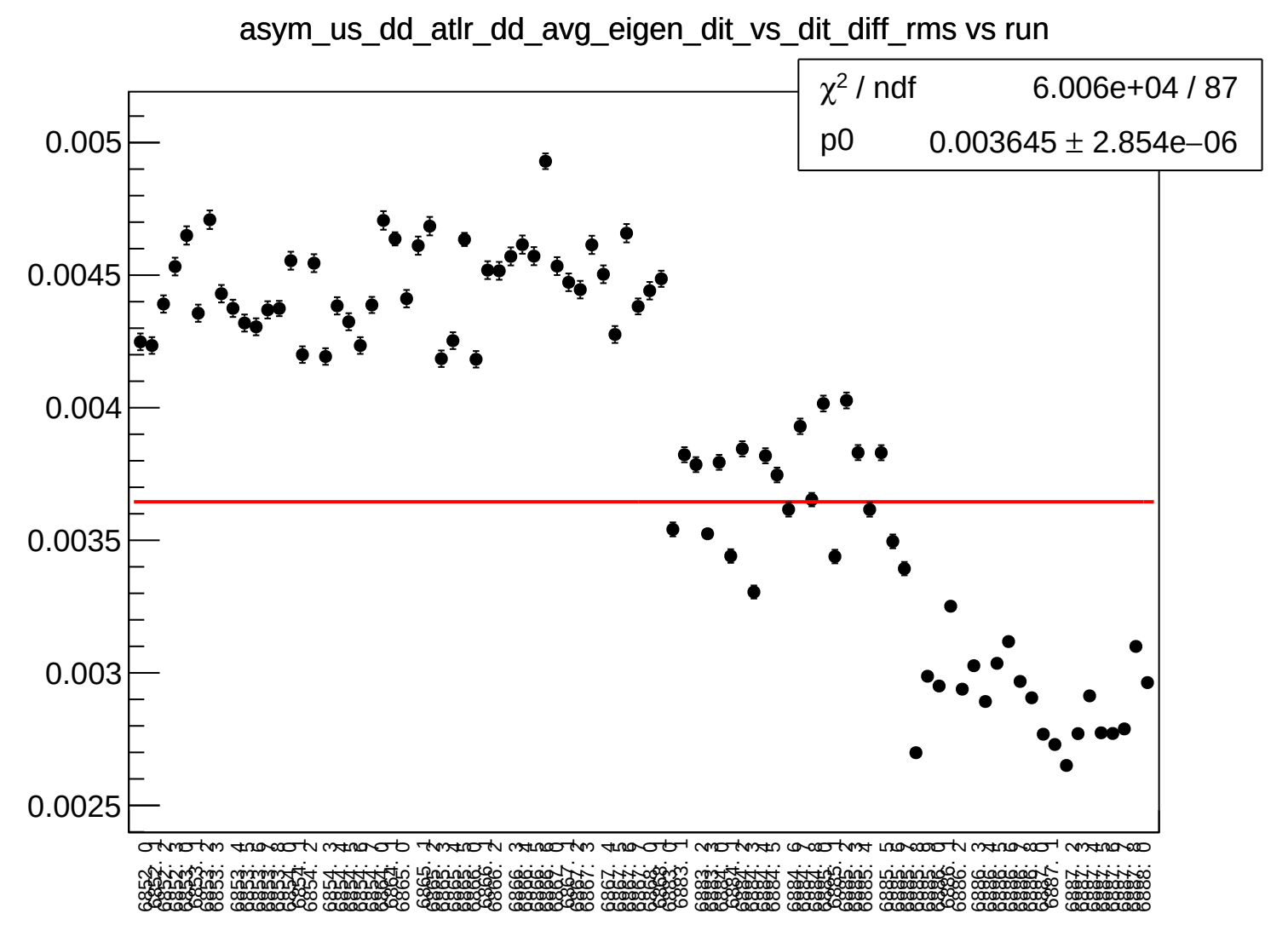

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.233e+05 / 87
p0 43.07 ± 0.03555
100
80
60
40
20

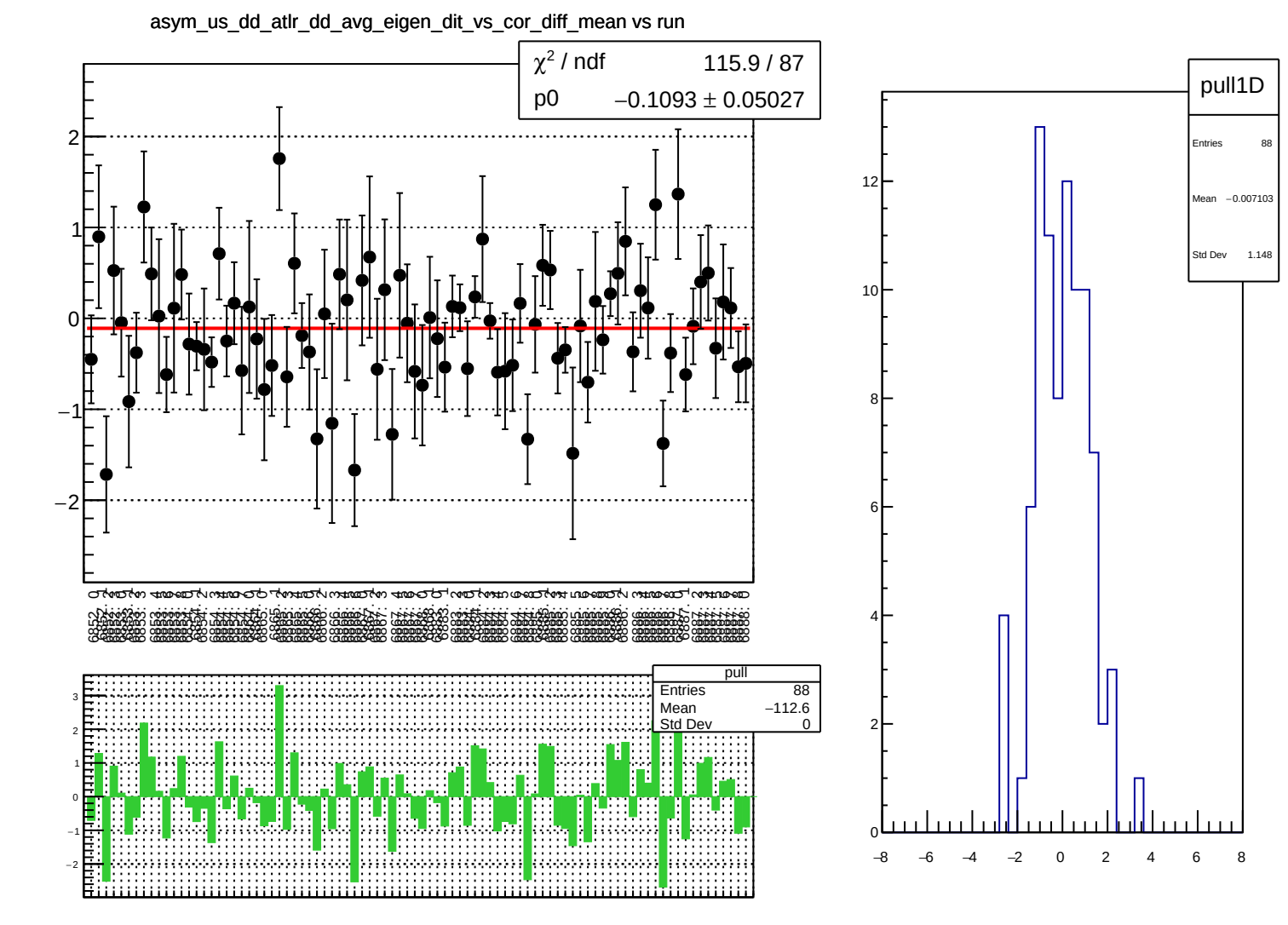

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.9 / 87
p0 −0.1093 ± 0.05028
pull
Entries 88
Mean −112.6
Std Dev 0
pull1D
Entries 88
Mean −0.007107
Std Dev 1.148

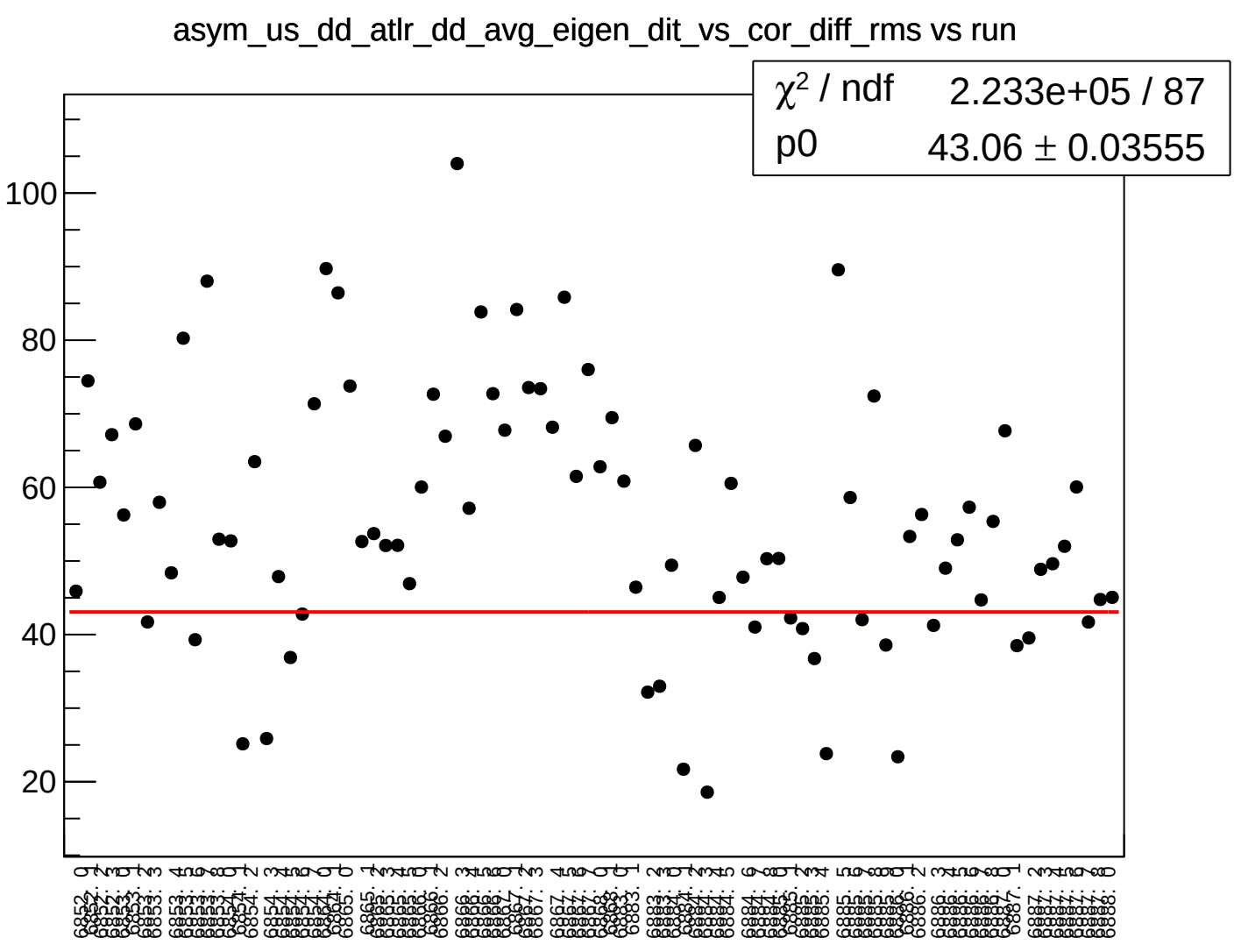

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.233e+05 / 87
p0 43.07 ± 0.03555
100
80
60
40
20

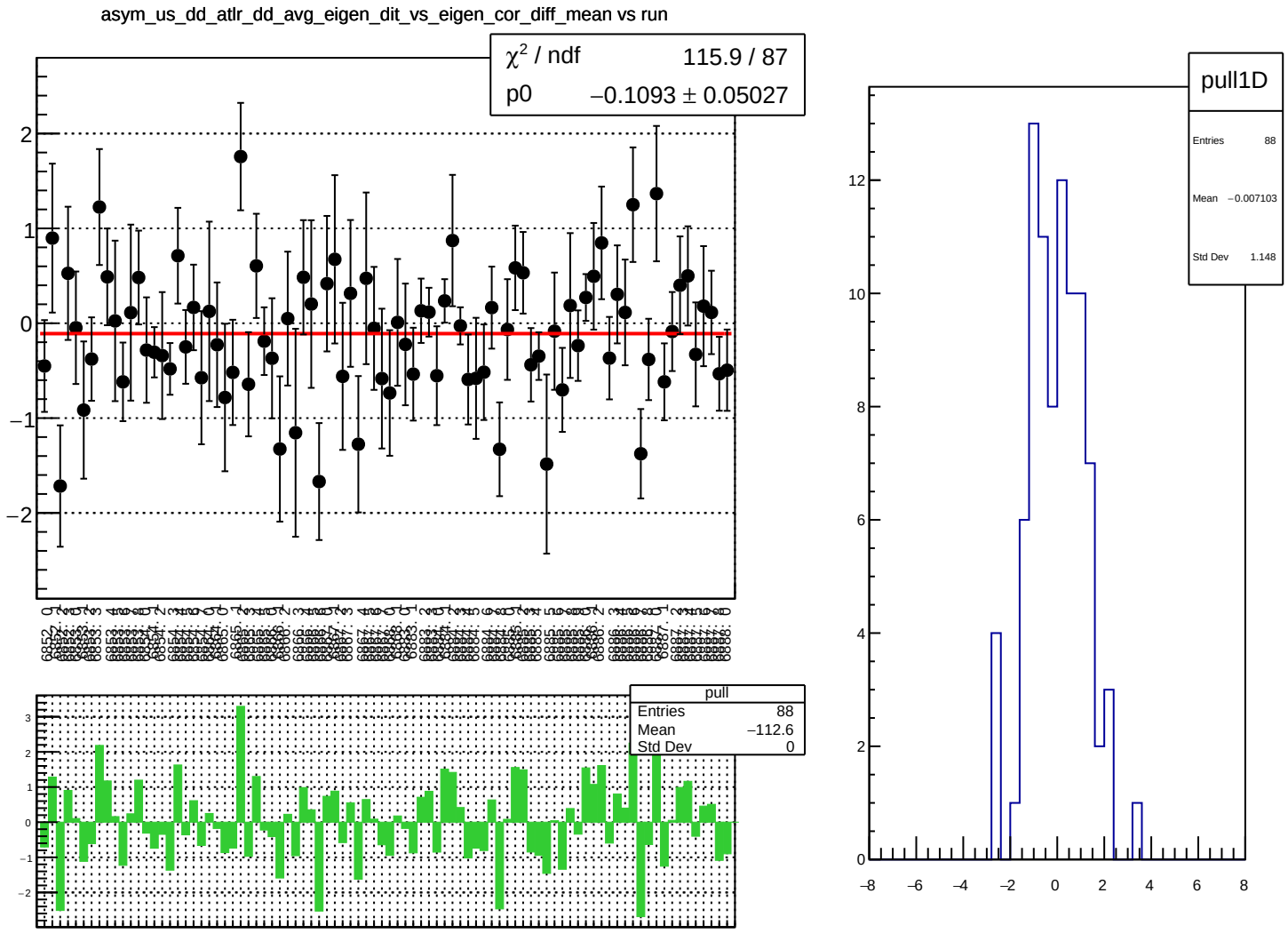

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.85 / 87
p0 −2.185e−06 ± 4.037e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 43.54
Std Dev 38.76
2
1
0
−1
−2

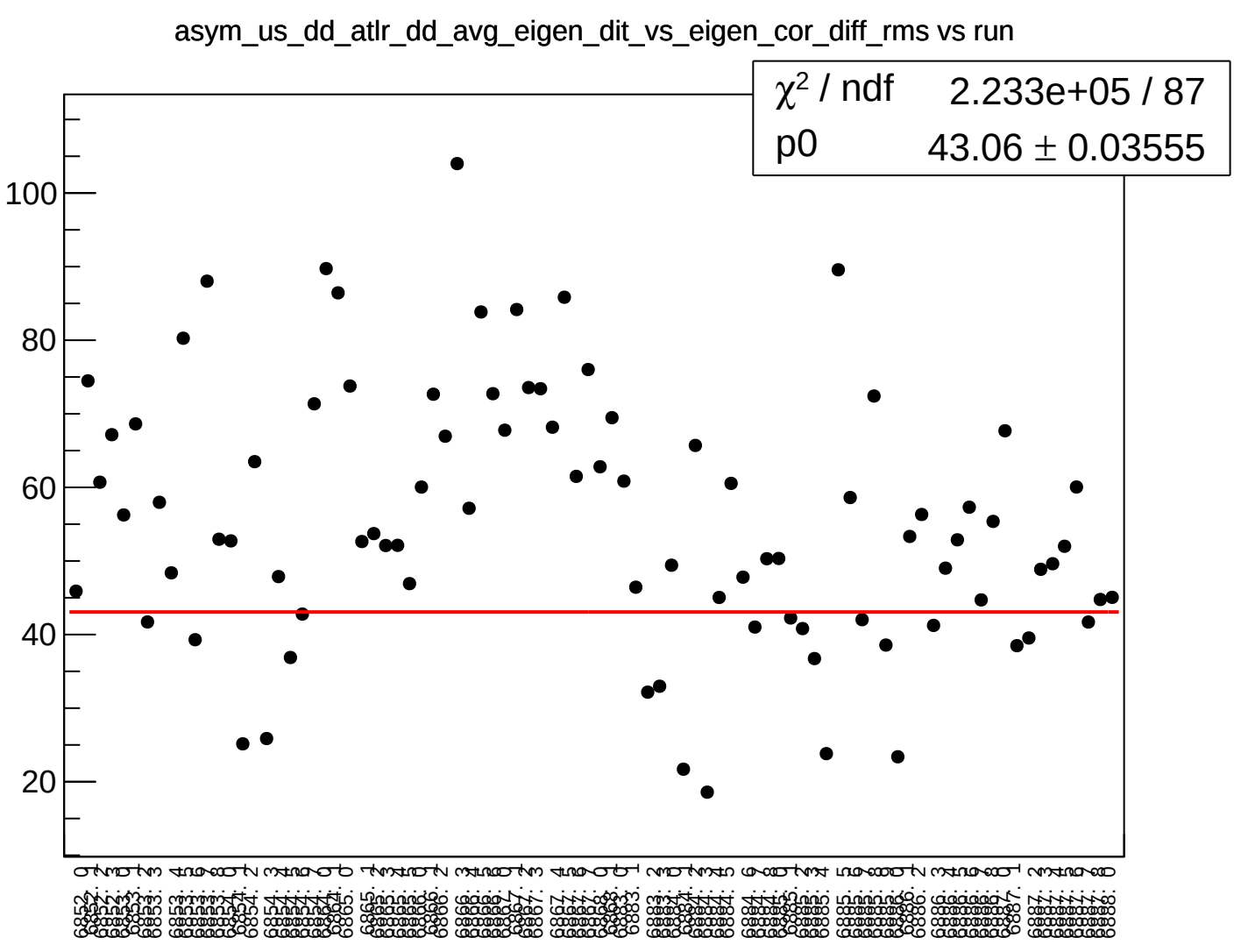

pull1D
Entries 88
Mean 0.01367
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

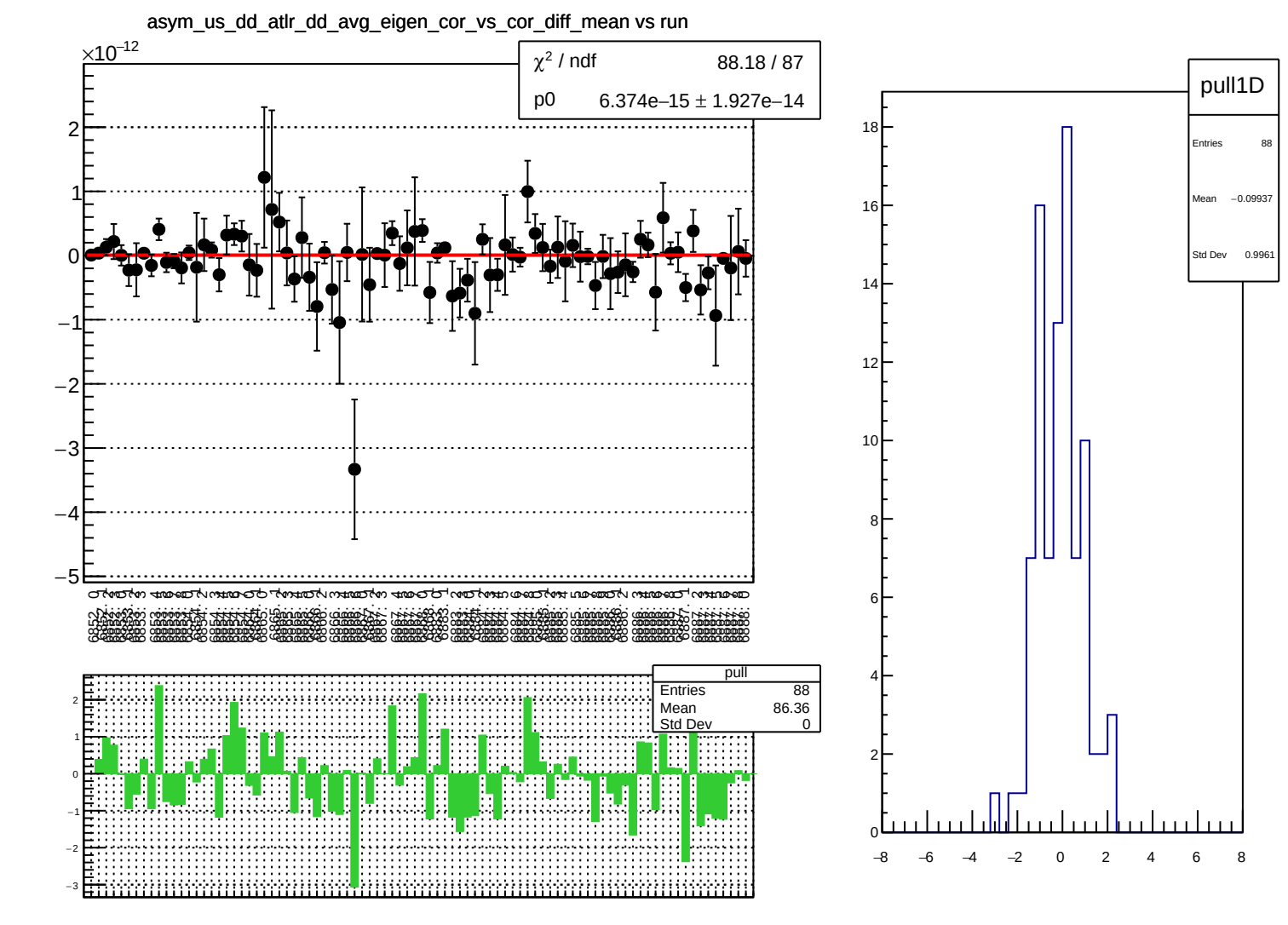

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.006e+04 / 87
p0 0.003645 ± 2.854e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025

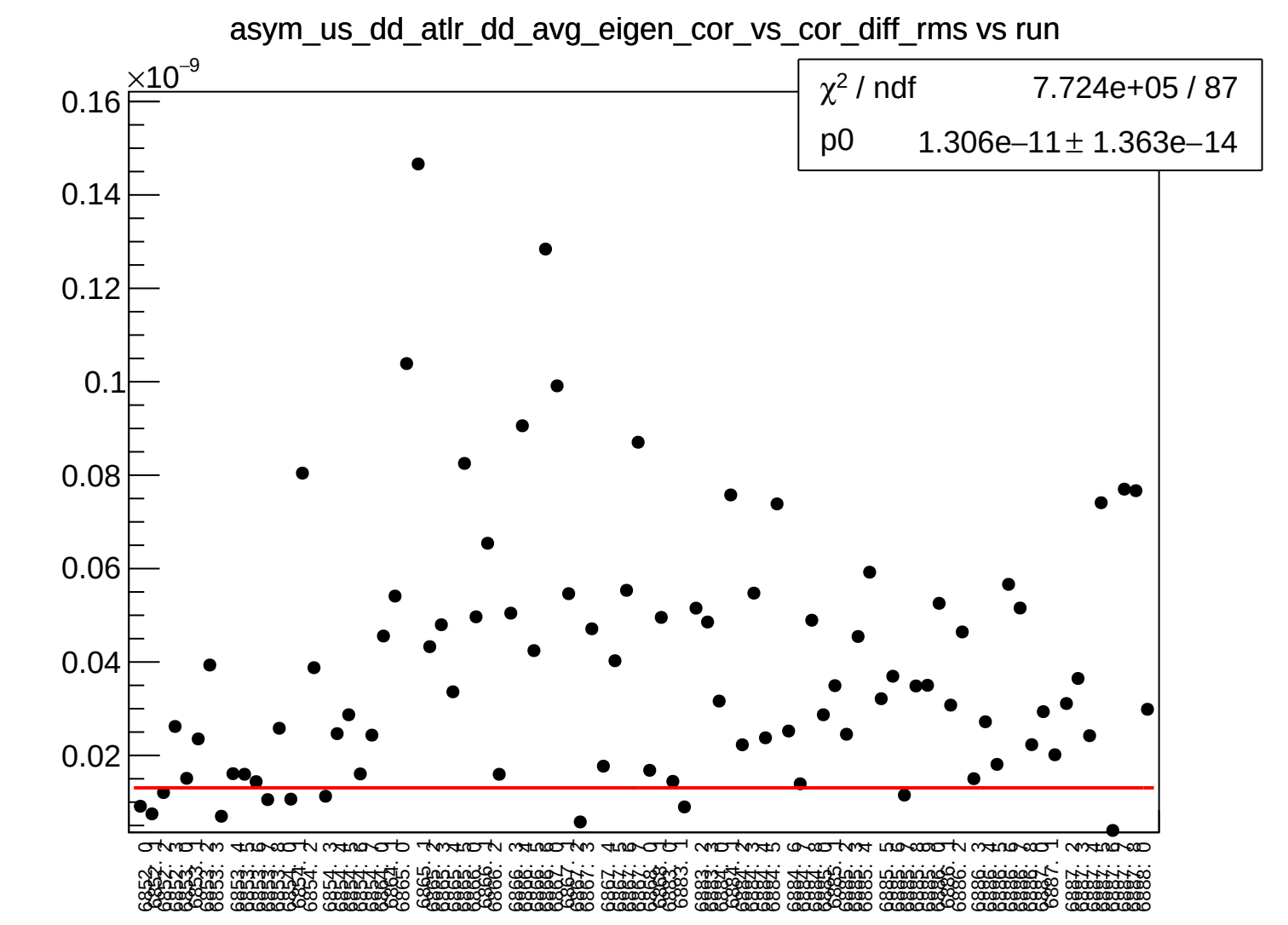

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.9 / 87
p0 −0.1093 ± 0.05027
pull
Entries 88
Mean −112.6
Std Dev 0
pull1D
Entries 88
Mean −0.007103
Std Dev 1.148

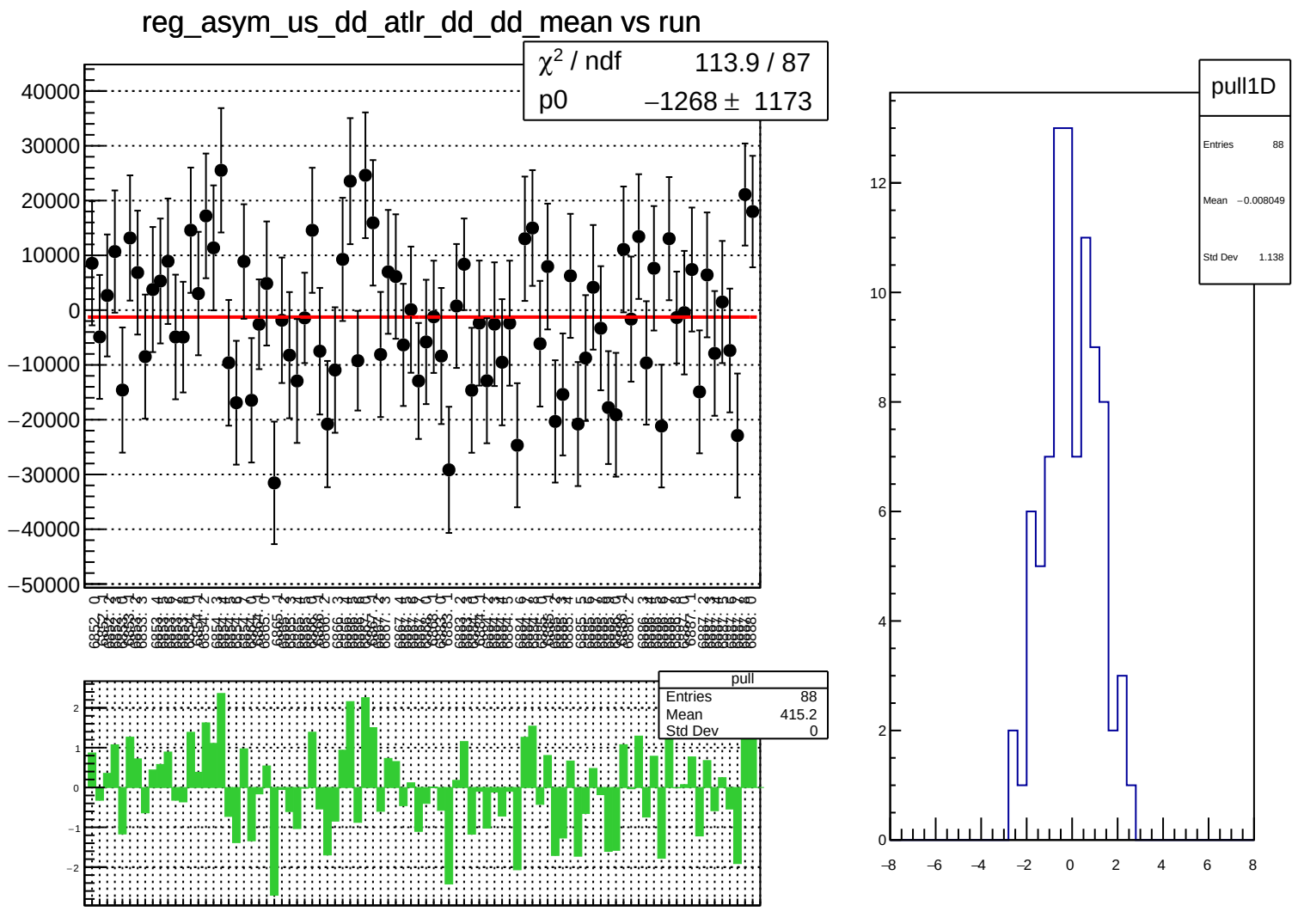

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.233e+05 / 87
p0 43.06 ± 0.03555
100
80
60
40
20

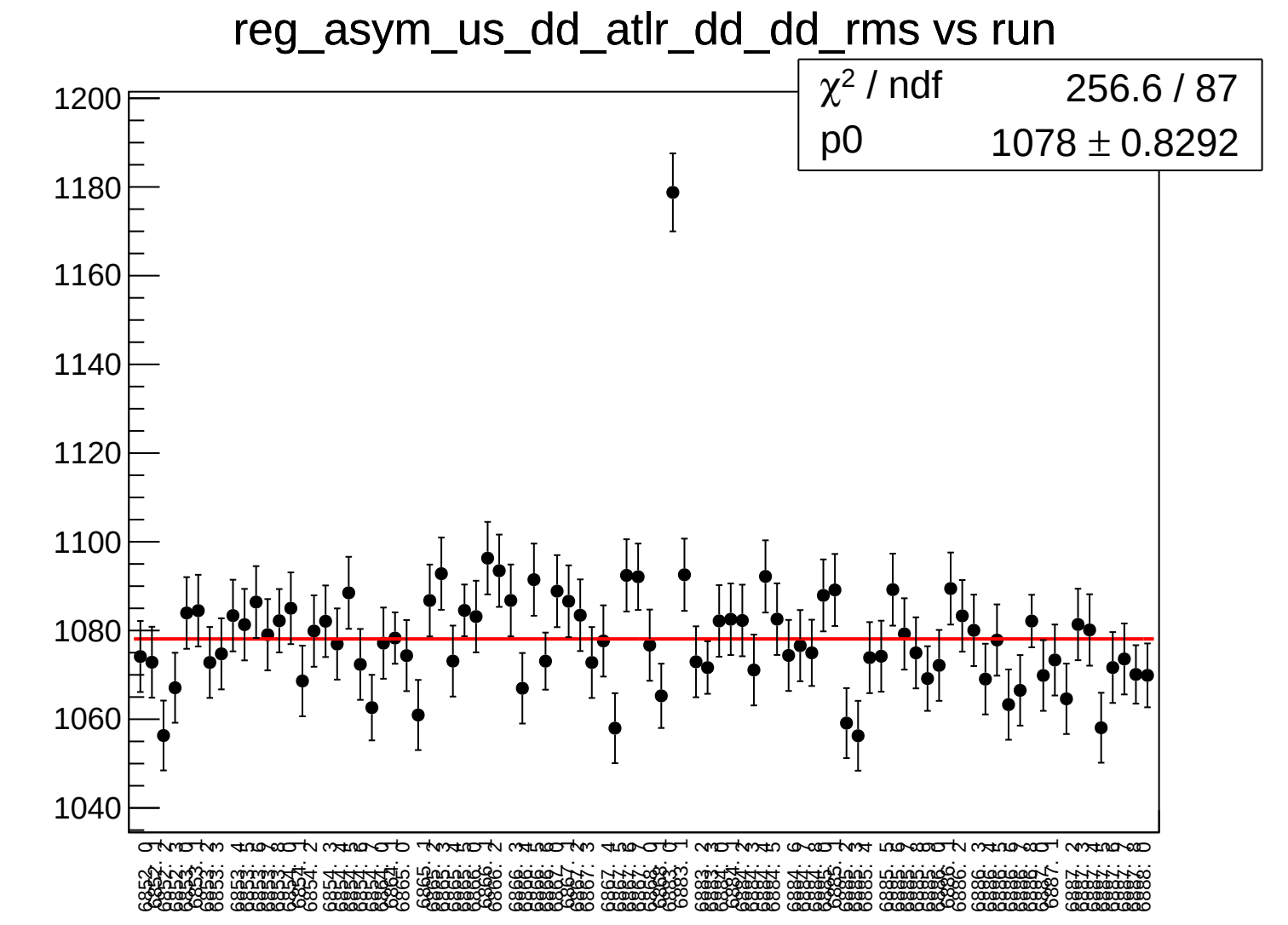

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.9 / 87
p0 −0.1093 ± 0.05027
pull
Entries 88
Mean −112.6
Std Dev 0
pull1D
Entries 88
Mean −0.007103
Std Dev 1.148

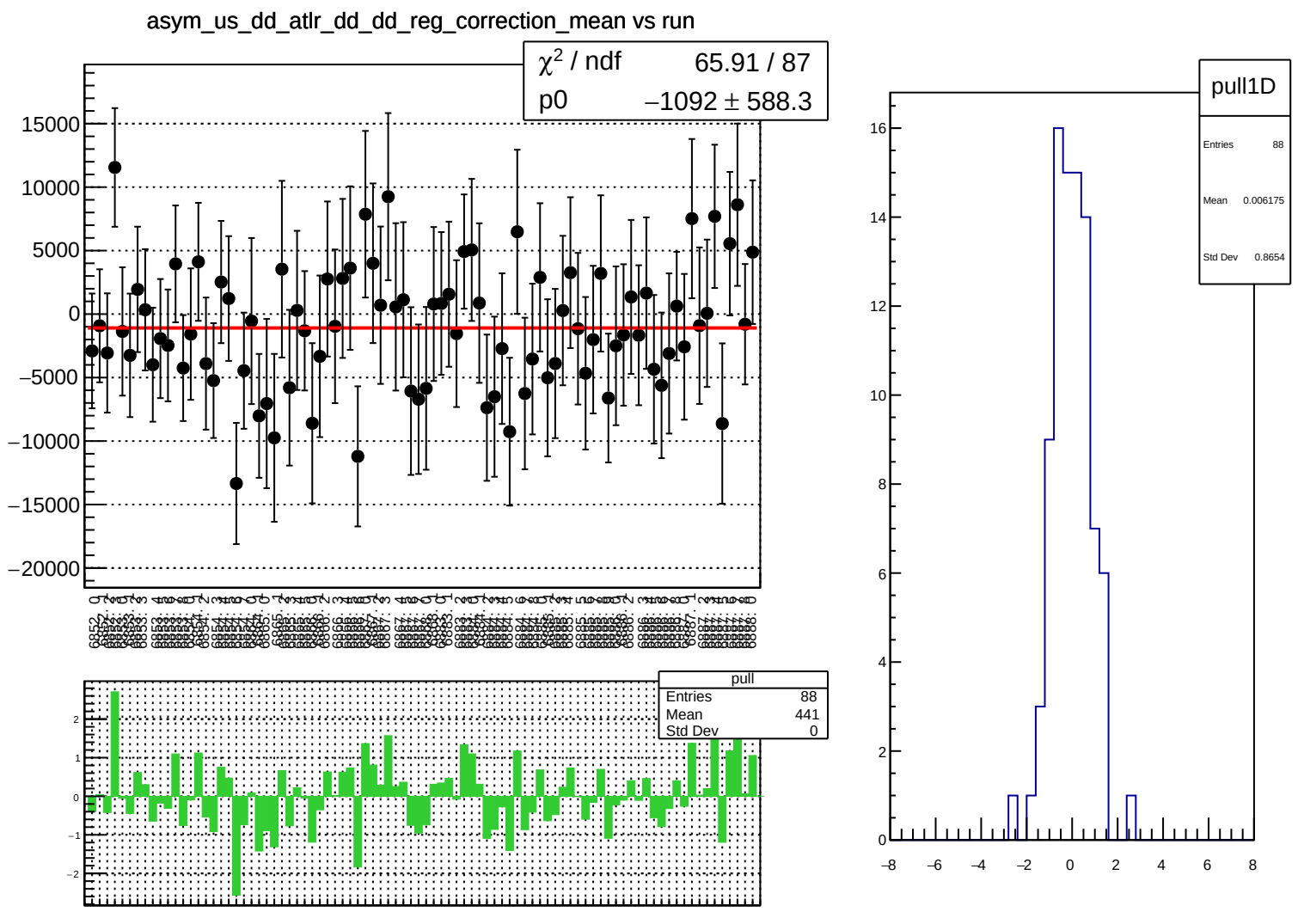

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.233e+05 / 87
p0 43.06 ± 0.03555
100
80
60
40
20

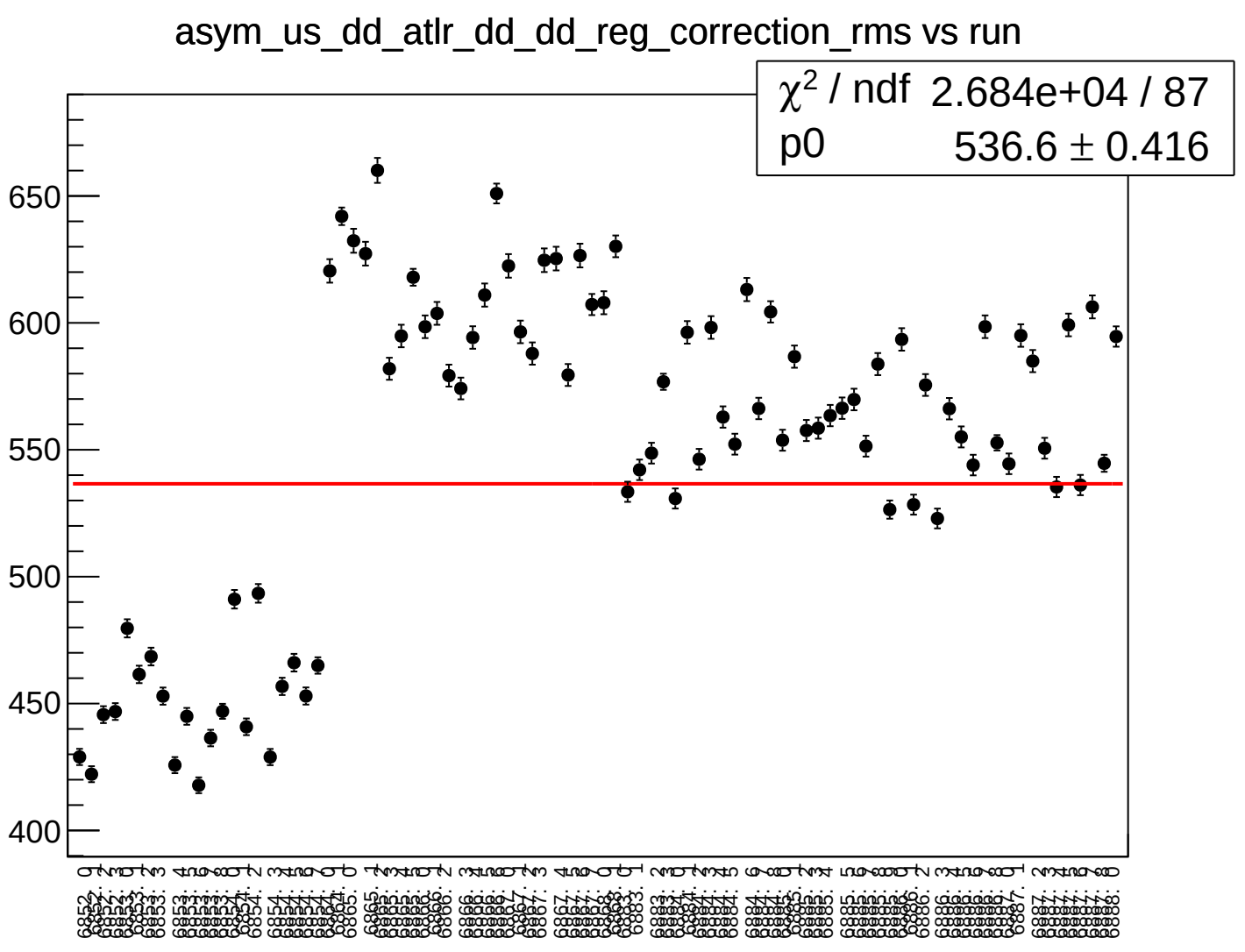

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 88.18 / 87
p0 6.374e−15 ± 1.927e−14
pull
Entries 88
Mean 86.36
Std Dev 0
pull1D
Entries 88
Mean −0.09937
Std Dev 0.9961

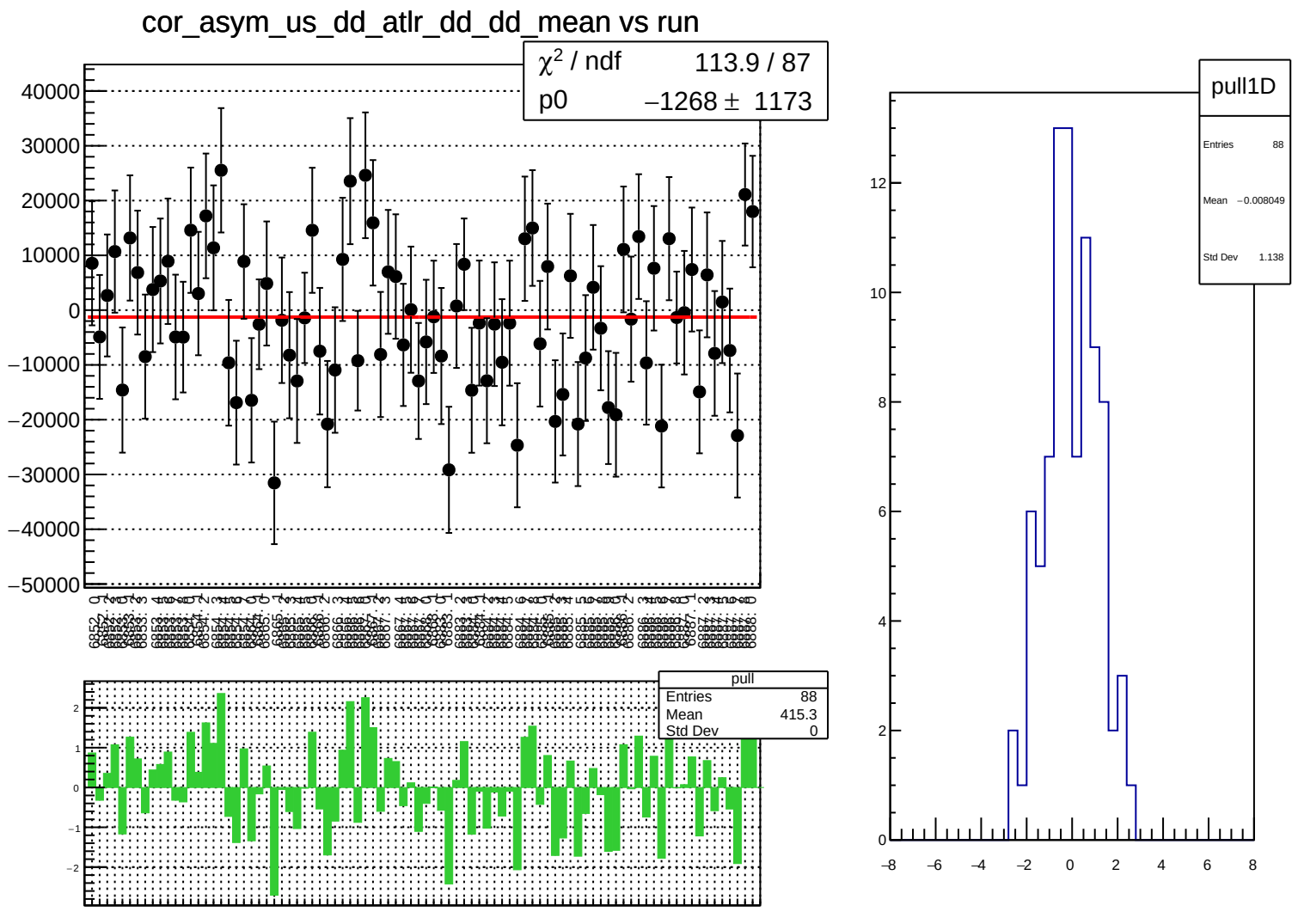

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 7.724e+05 / 87
p0 1.306e−11 ± 1.363e−14

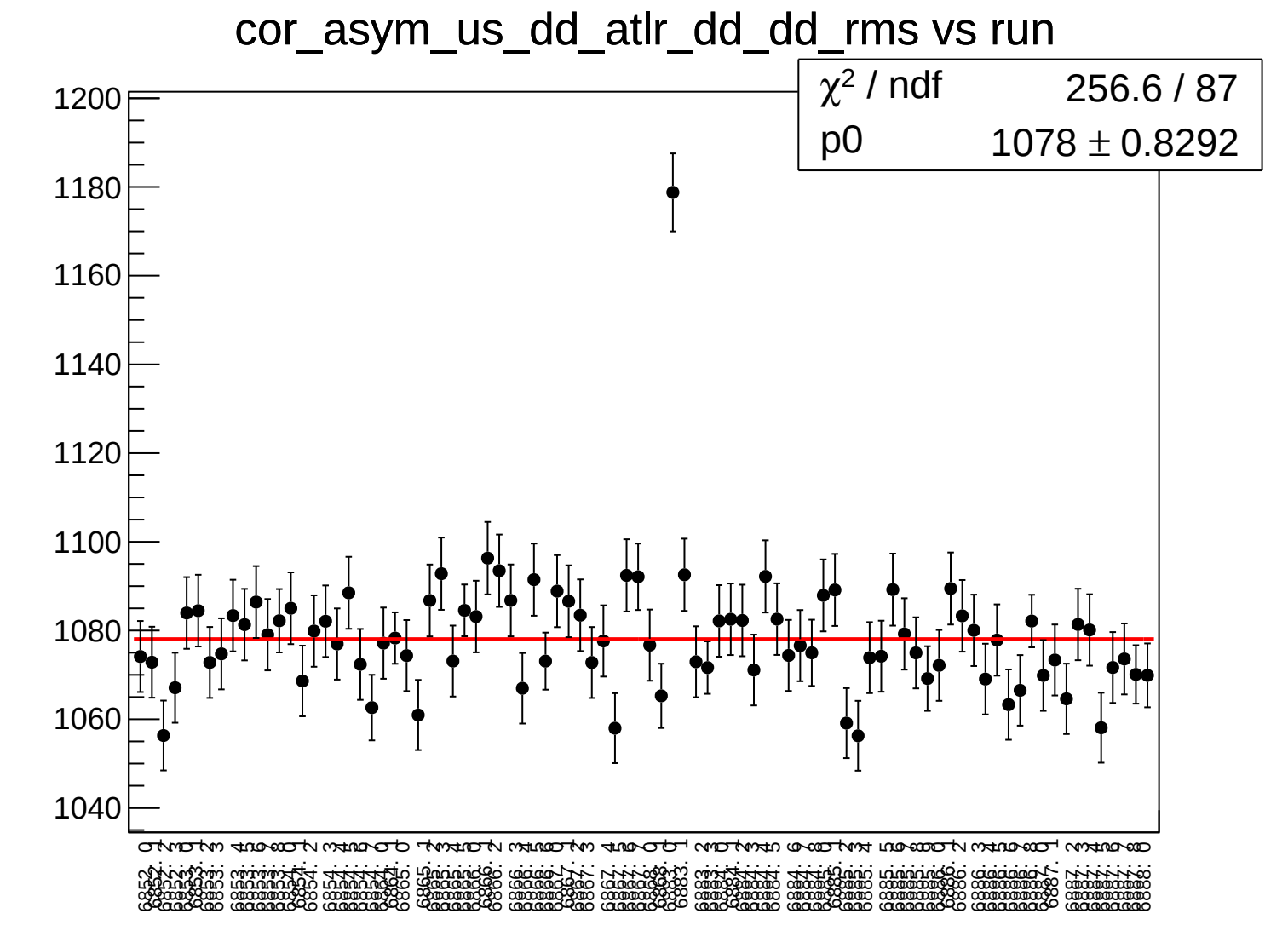

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 113.9 / 87
p0 −1268 ± 1173
pull
Entries 88
Mean 415.2
Std Dev 0
pull1D
Entries 88
Mean −0.008049
Std Dev 1.138

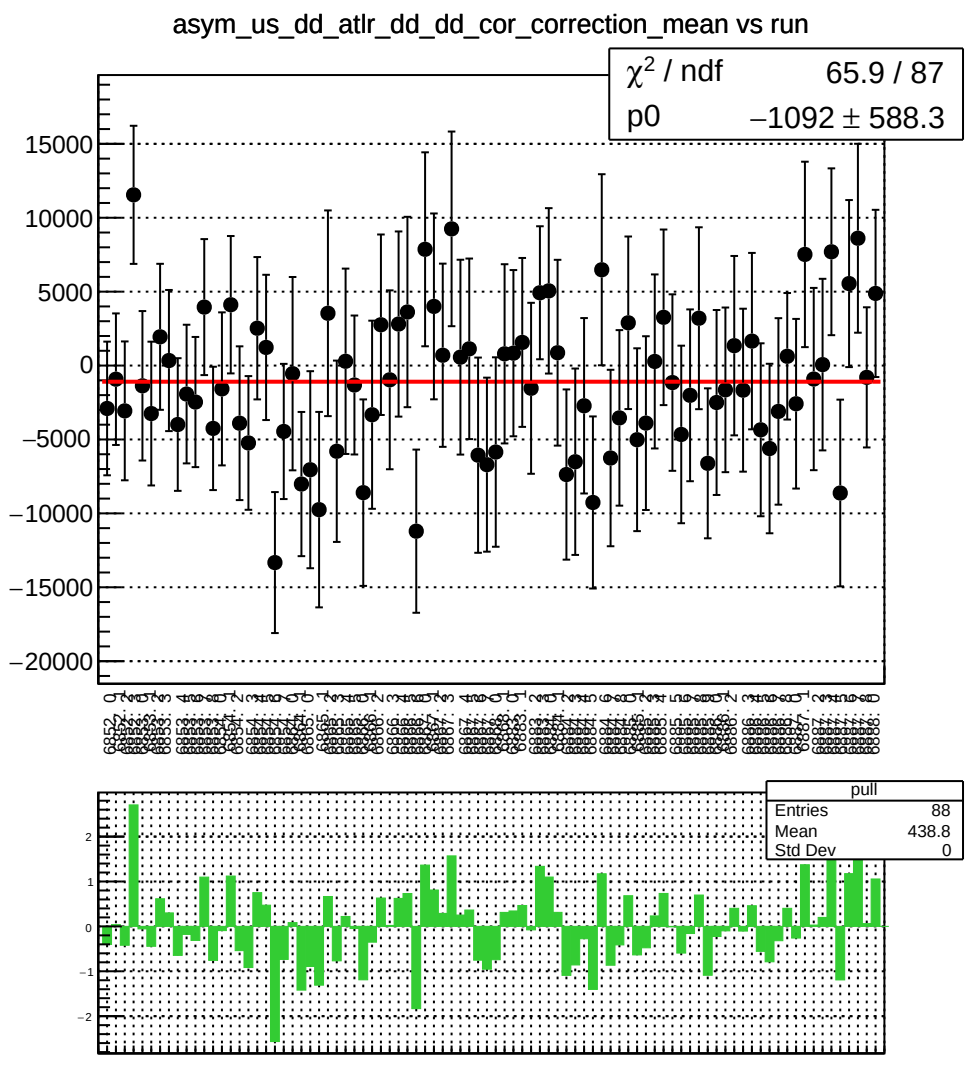

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 256.6 / 87
p0 1078 ± 0.8292
1200
1180
1160
1140
1120
1100
1080
1060
1040

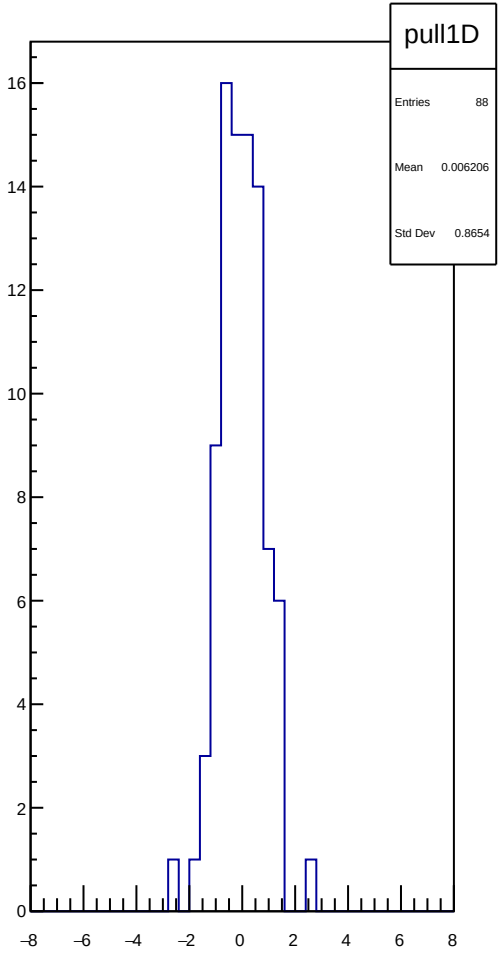

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 65.91 / 87
p0 −1092 ± 588.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 441
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.006175
Std Dev 0.8654
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 2.684e+04 / 87
p0 536.6 ± 0.416
650
600
550
500
450
400


cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 113.9 / 87
p0 −1268 ± 1173
pull
Entries 88
Mean 415.3
Std Dev 0
pull1D
Entries 88
Mean −0.008049
Std Dev 1.138


cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 256.6 / 87
p0 1078 ± 0.8292
1200
1180
1160
1140
1120
1100
1080
1060
1040


asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 65.9 / 87
p0 −1092 ± 588.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 438.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.006206
Std Dev 0.8654
16
14
12
10
8
6
4
2
0
−8
−6
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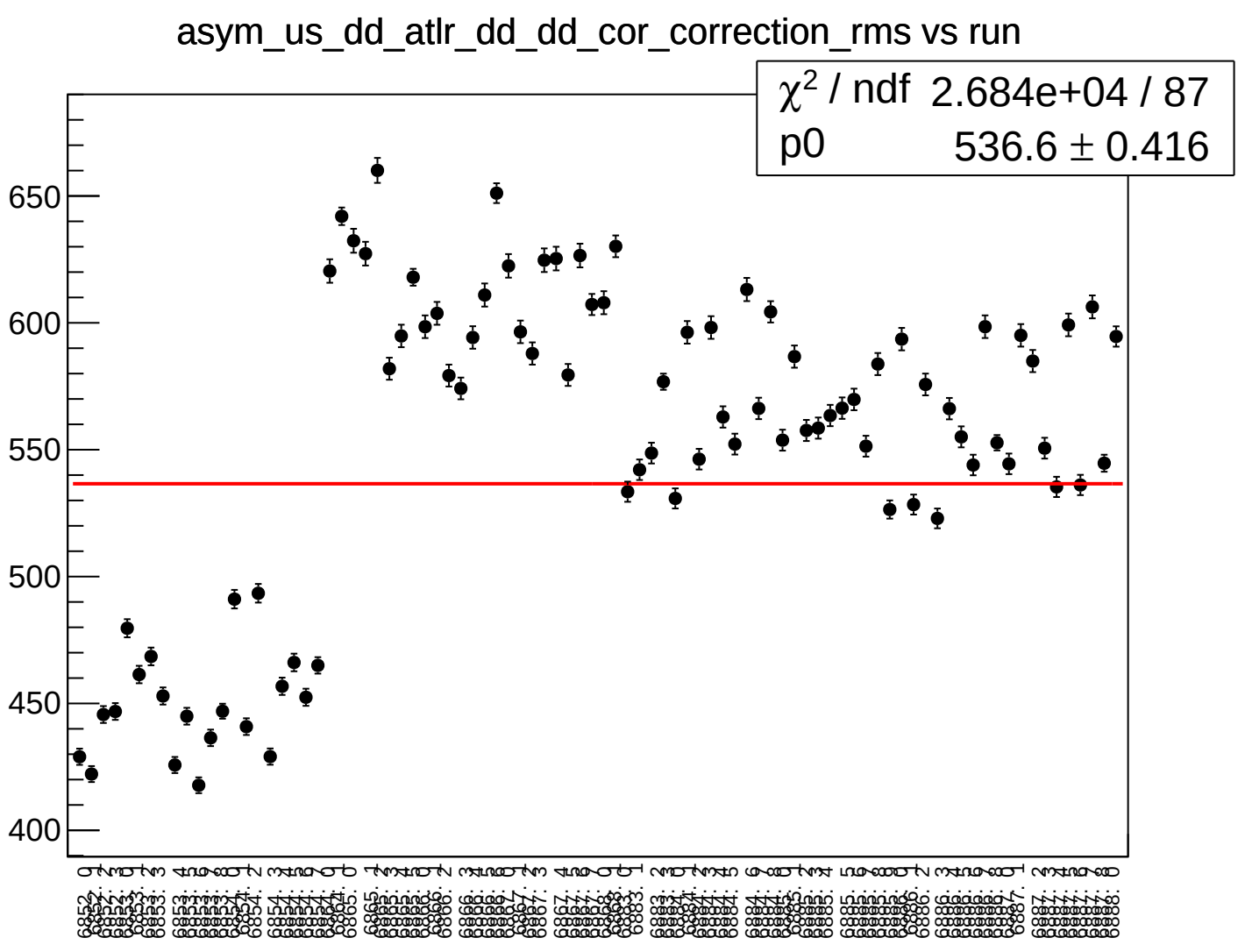
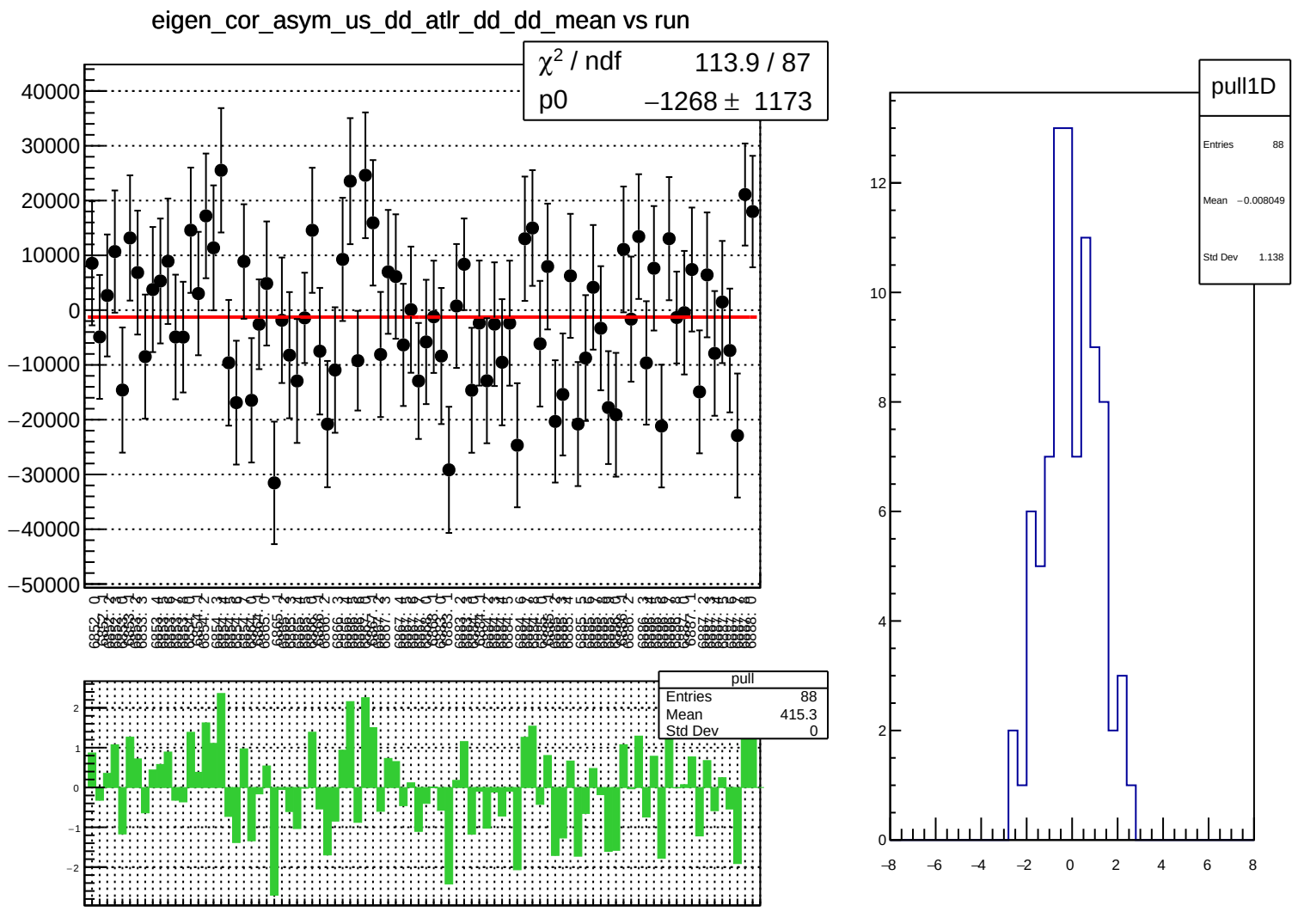
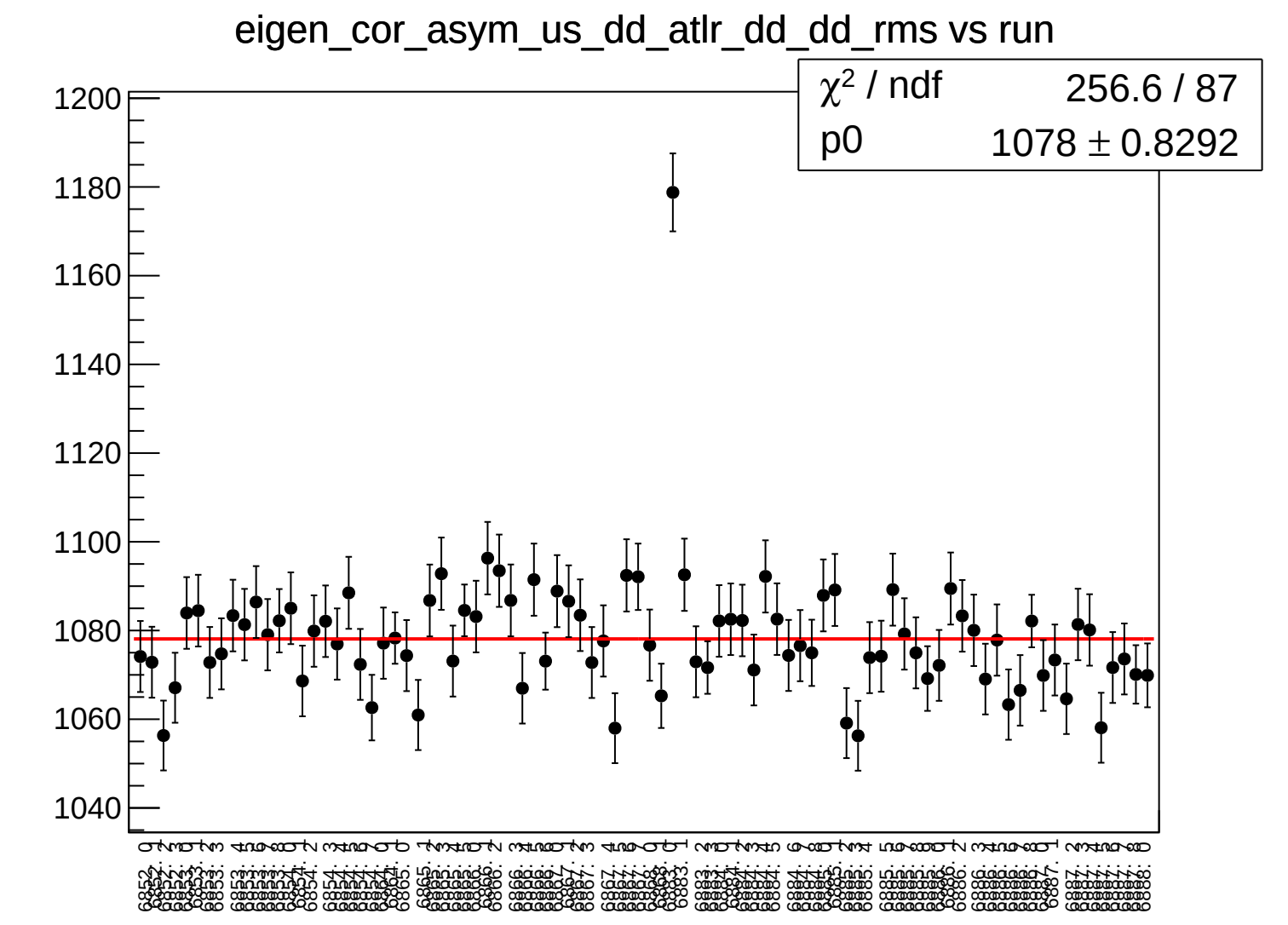
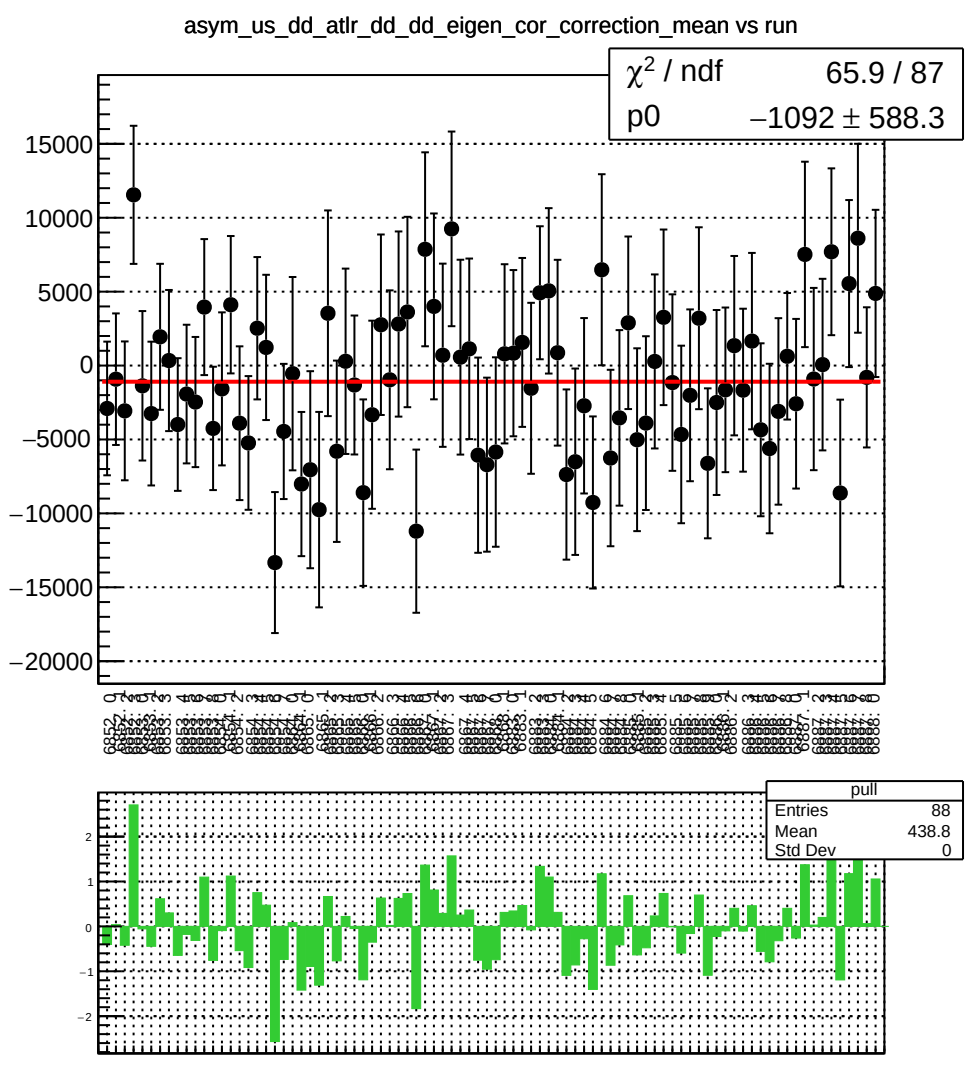
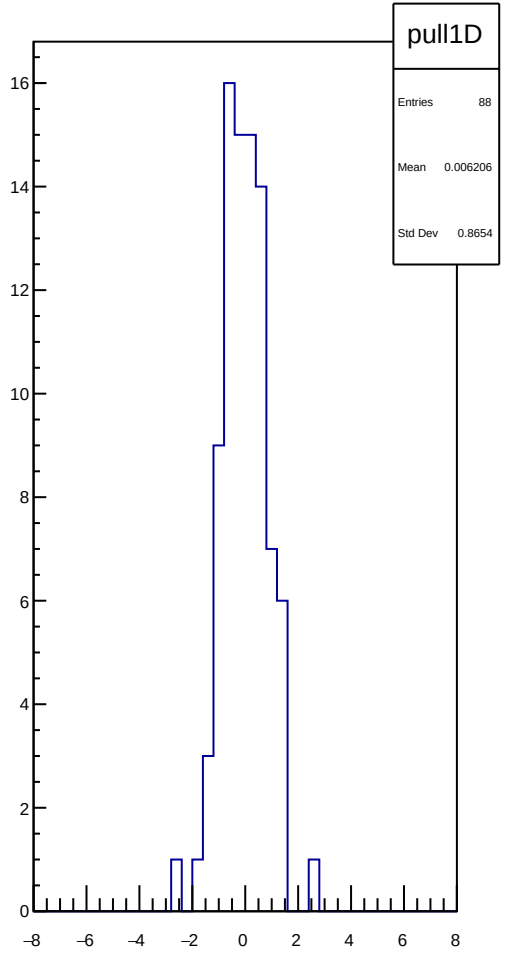
2
4
6
8

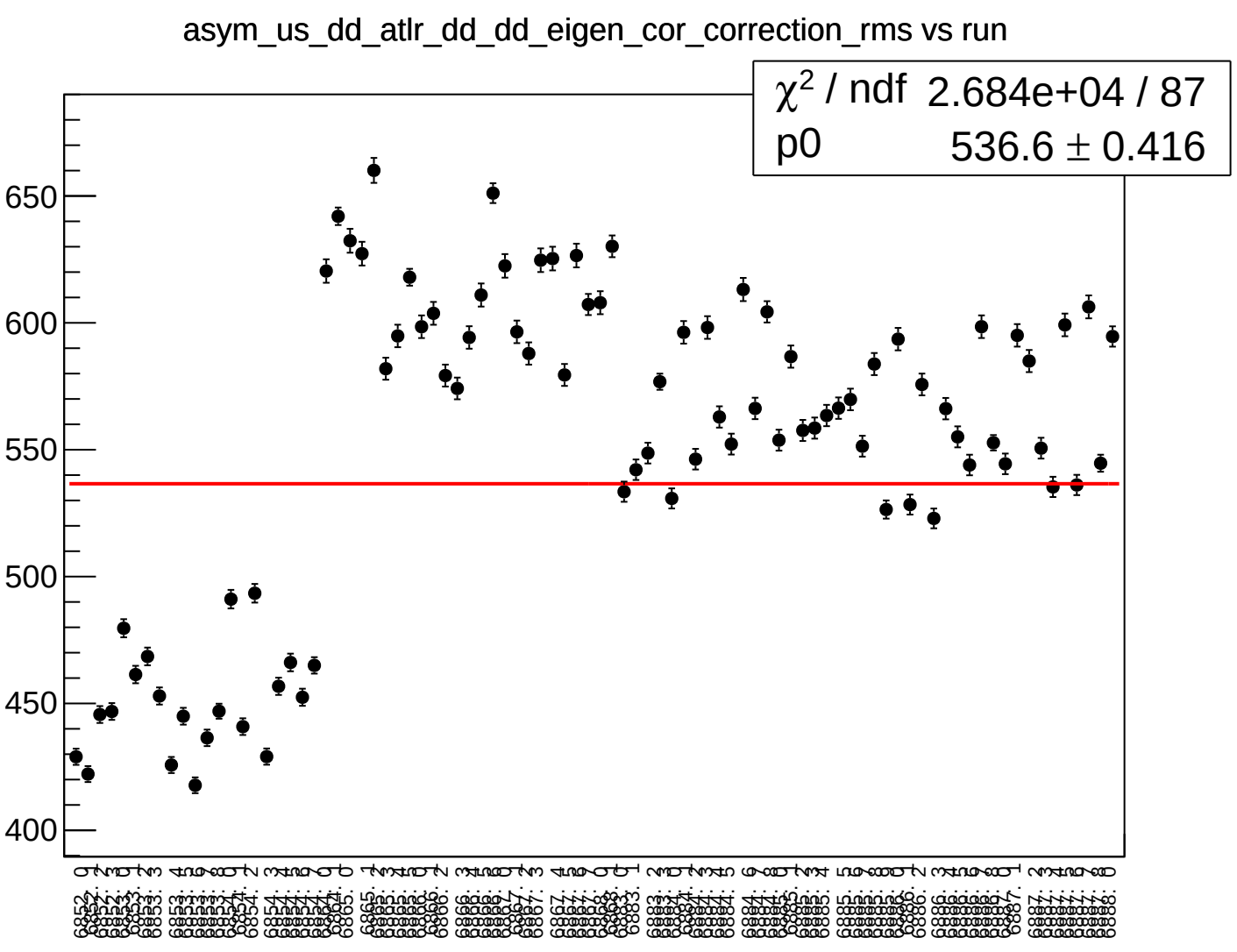

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 2.684e+04 / 87
p0 536.6 ± 0.416
650
600
550
500
450
400

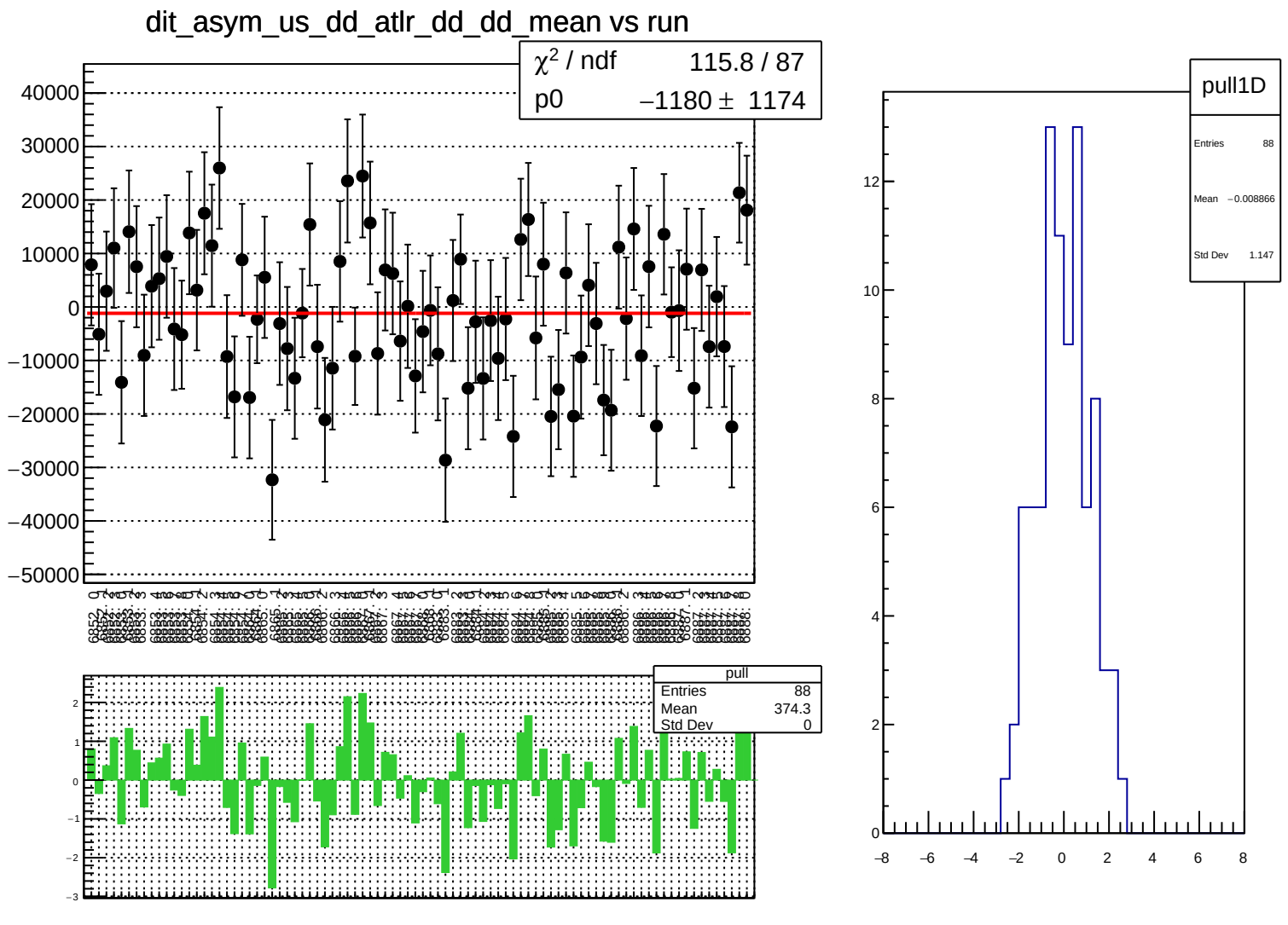

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 113.9 / 87
p0 −1268 ± 1173
pull
Entries 88
Mean 415.3
Std Dev 0
pull1D
Entries 88
Mean −0.008049
Std Dev 1.138

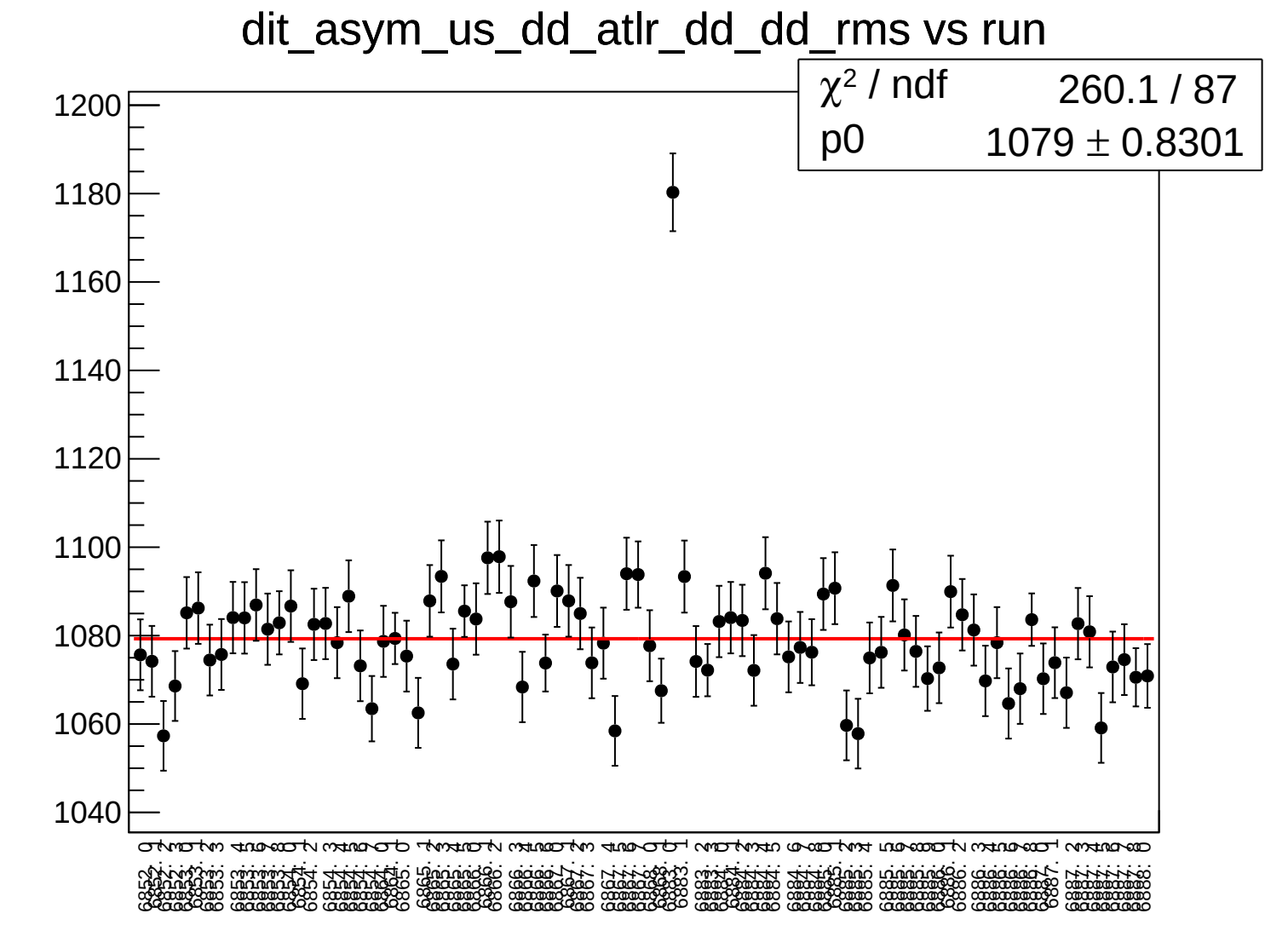

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 256.6 / 87
p0 1078 ± 0.8292
1200
1180
1160
1140
1120
1100
1080
1060
1040

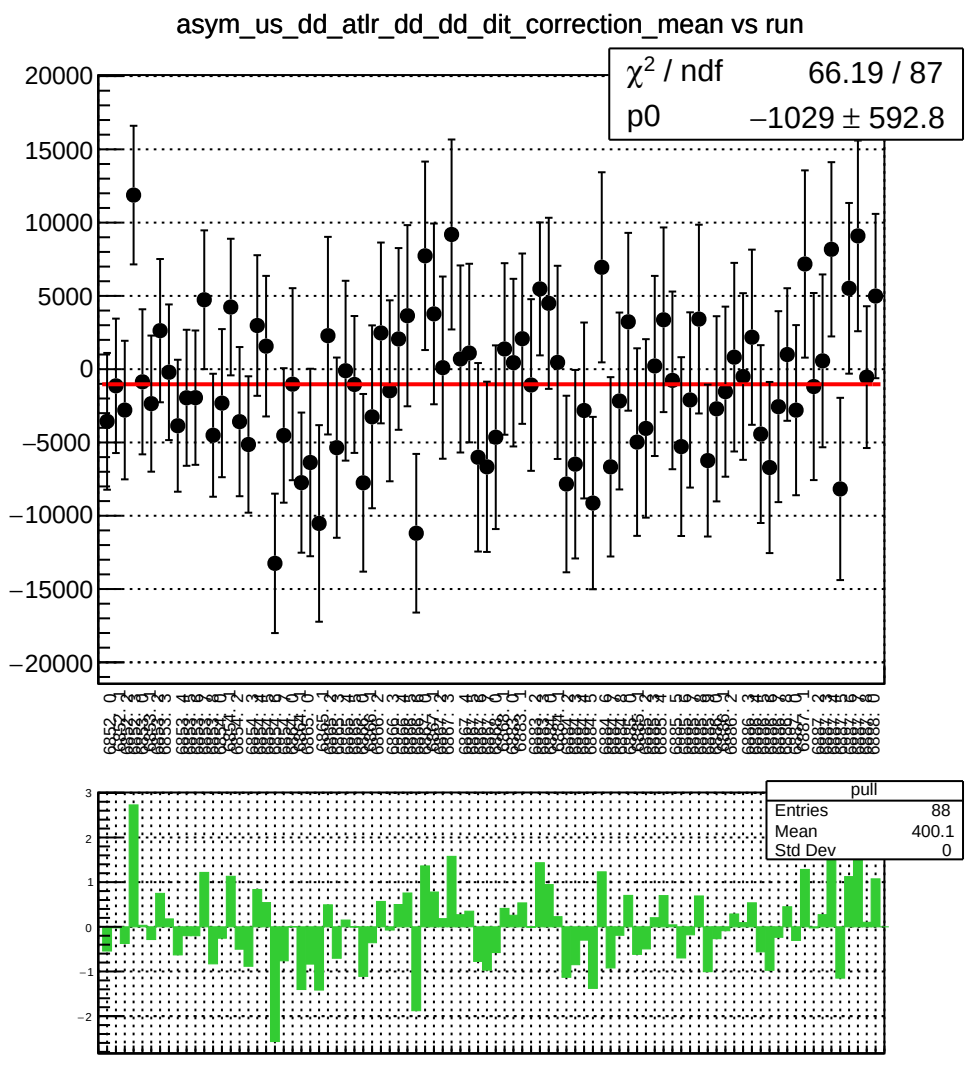

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.9 / 87
p0 −1092 ± 588.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 438.8
Std Dev 0
2
1
0
−1
−2

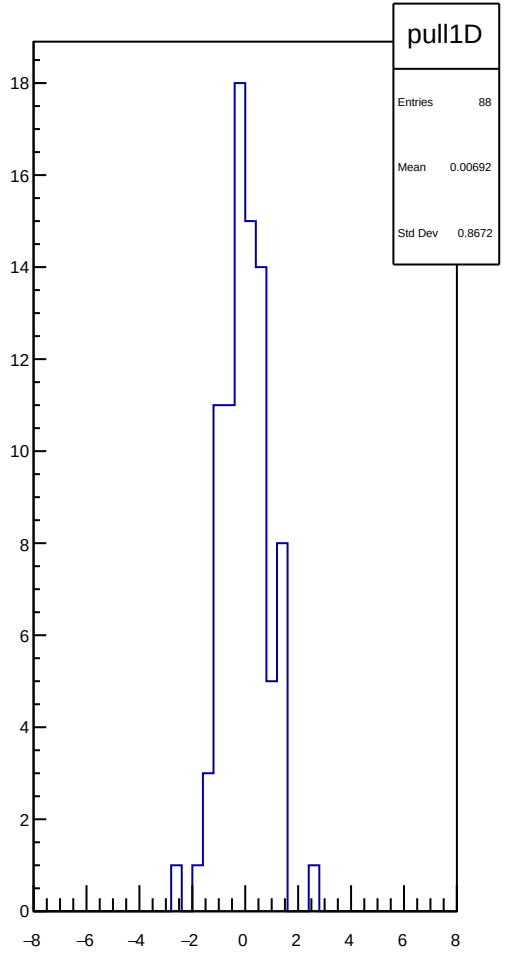

pull1D
Entries 88
Mean 0.006206
Std Dev 0.8654
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

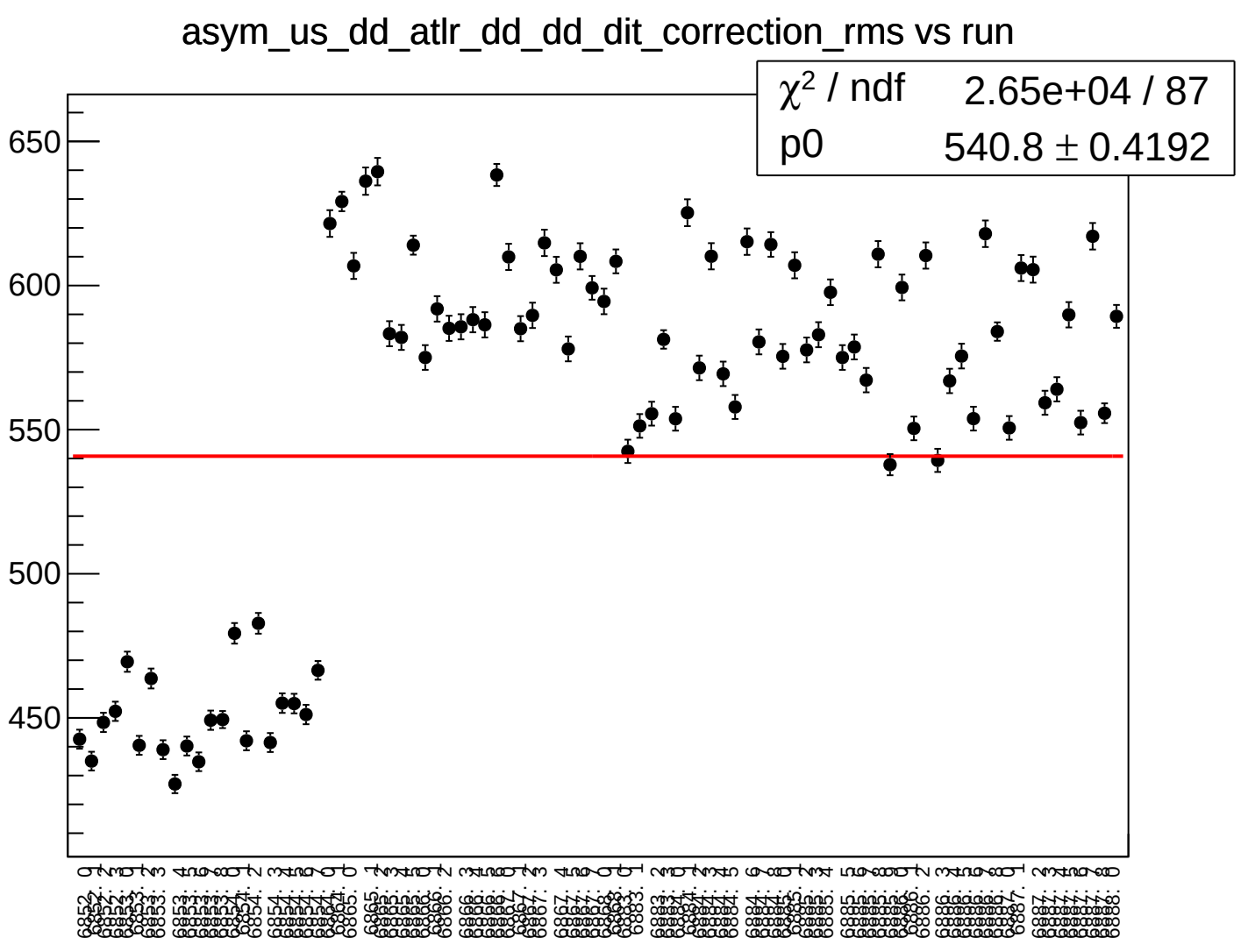

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.684e+04 / 87
p0 536.6 ± 0.416
650
600
550
500
450
400

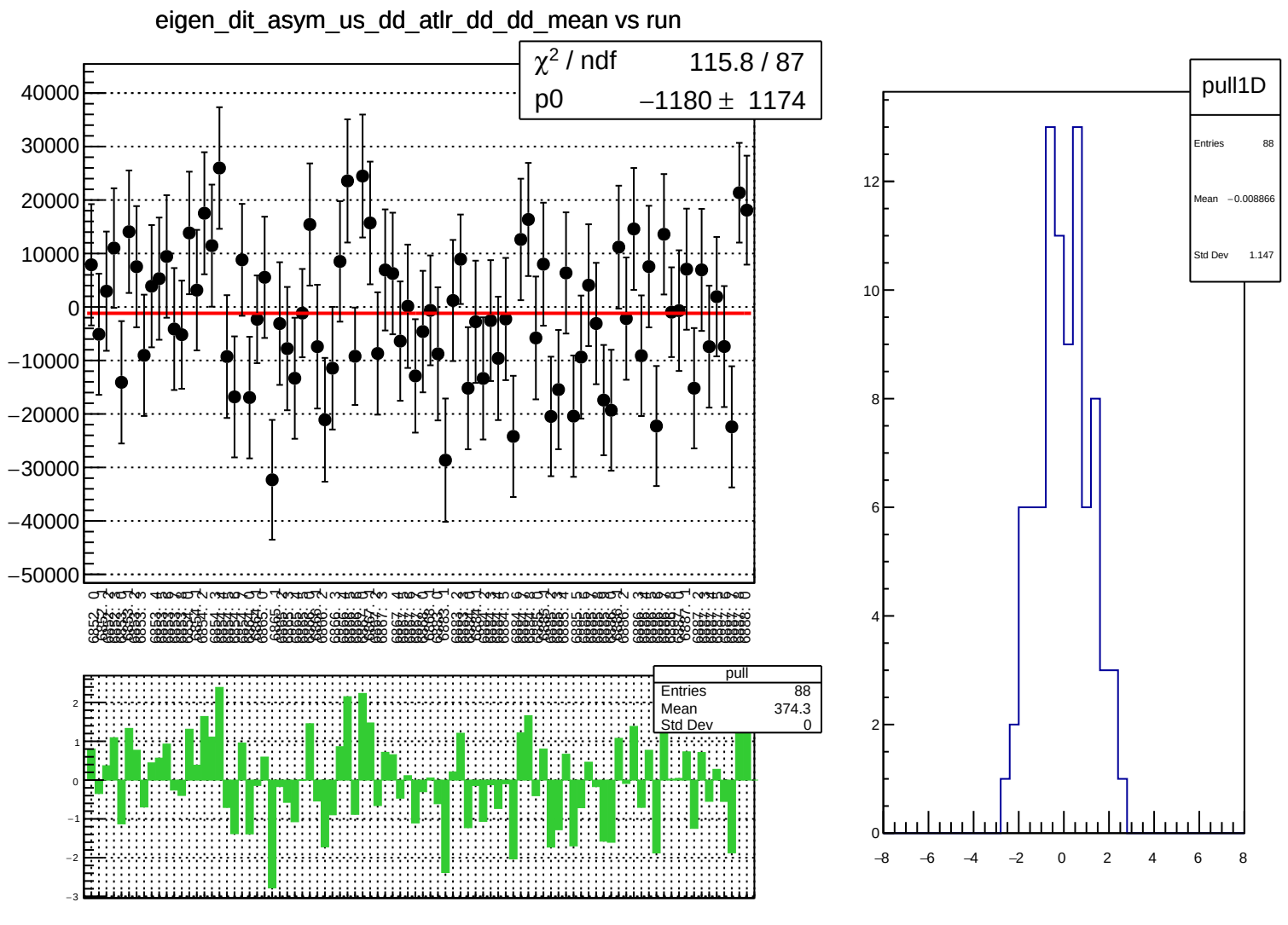

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 115.8 / 87
p0 −1180 ± 1174
pull
Entries 88
Mean 374.3
Std Dev 0
pull1D
Entries 88
Mean −0.008866
Std Dev 1.147

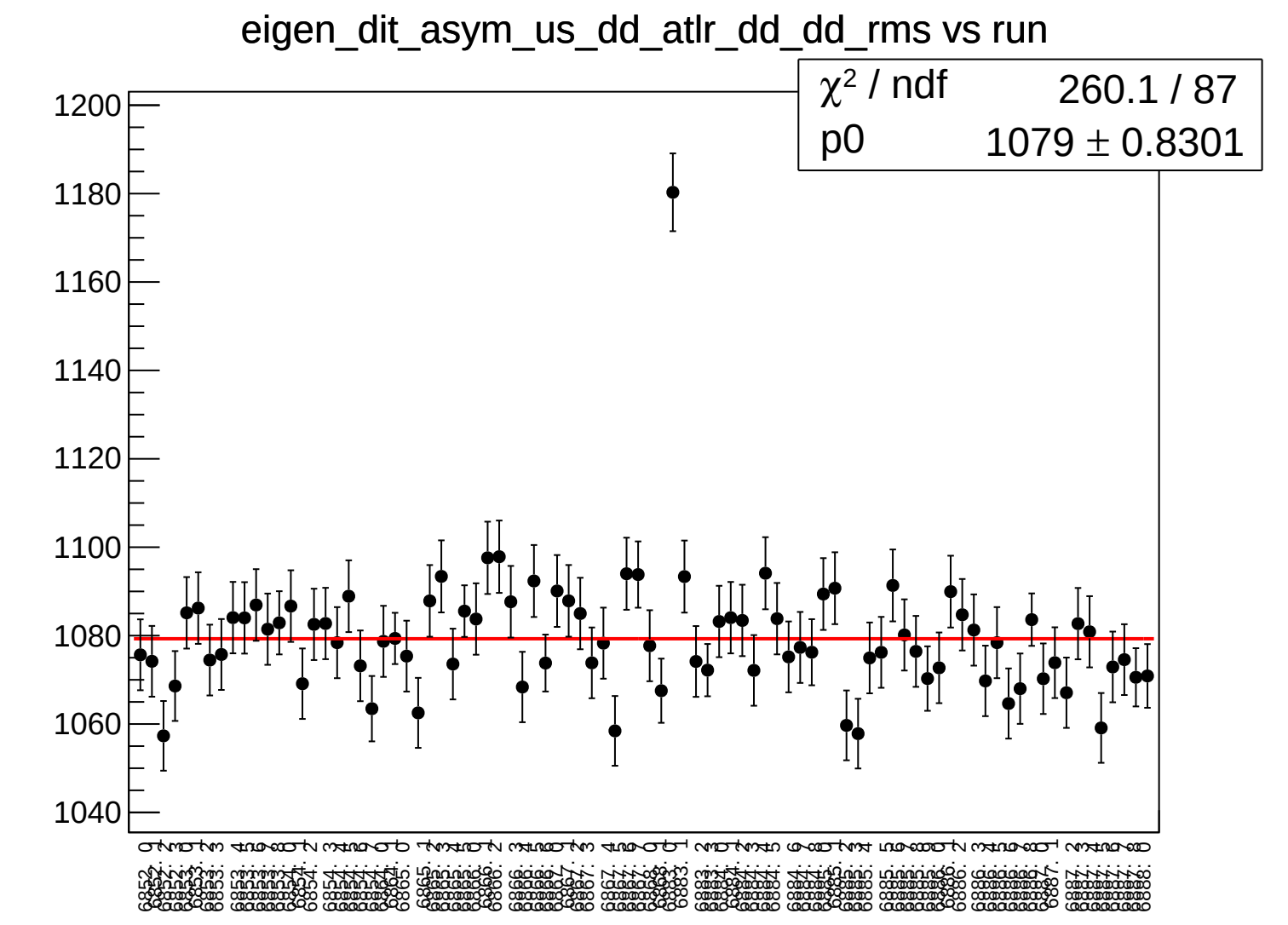

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 260.1 / 87
p0 1079 ± 0.8301
1200
1180
1160
1140
1120
1100
1080
1060
1040

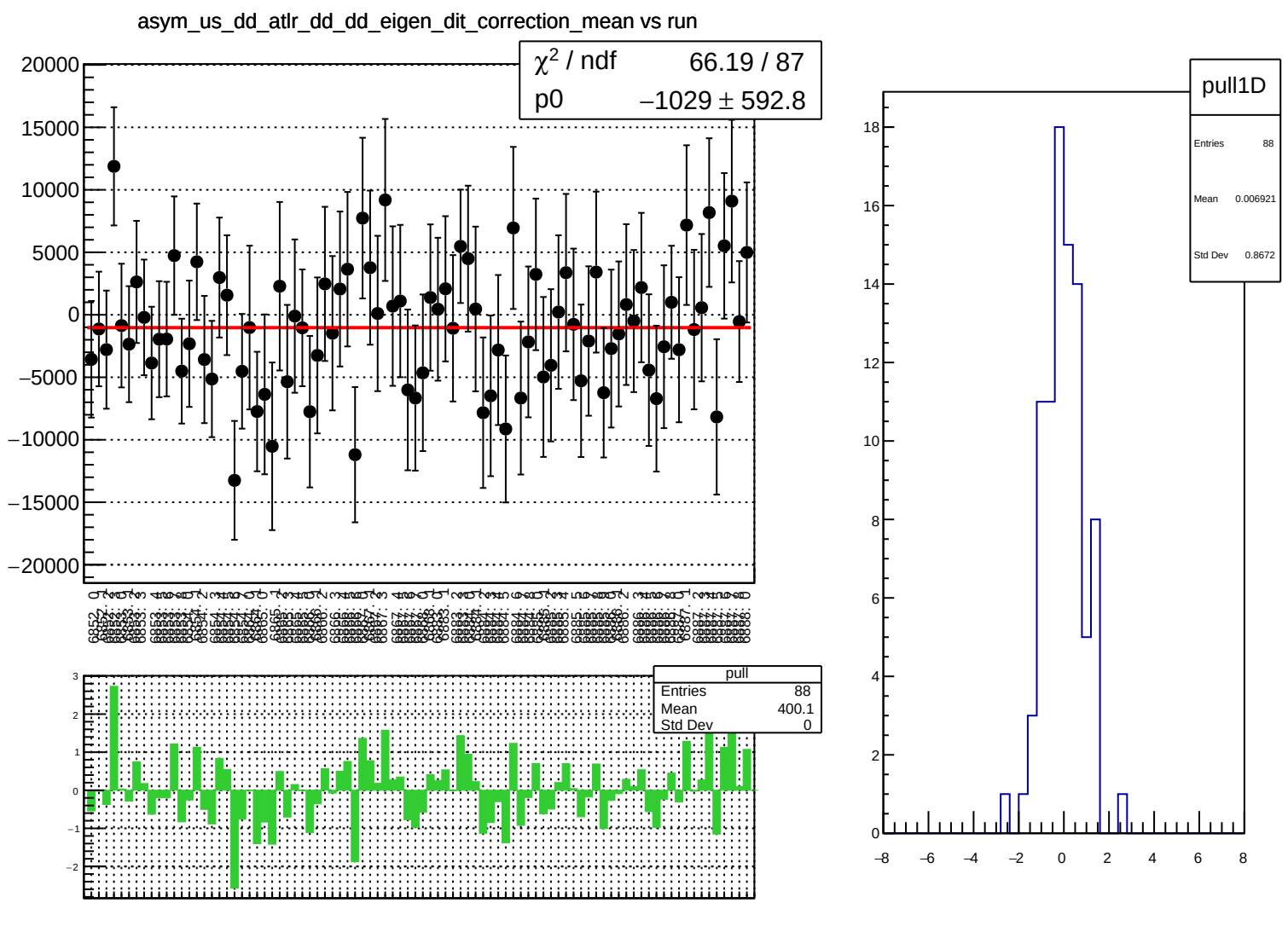

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 66.19 / 87
p0 −1029 ± 592.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 400.1
Std Dev 0
3
2
1
0
−1
−2

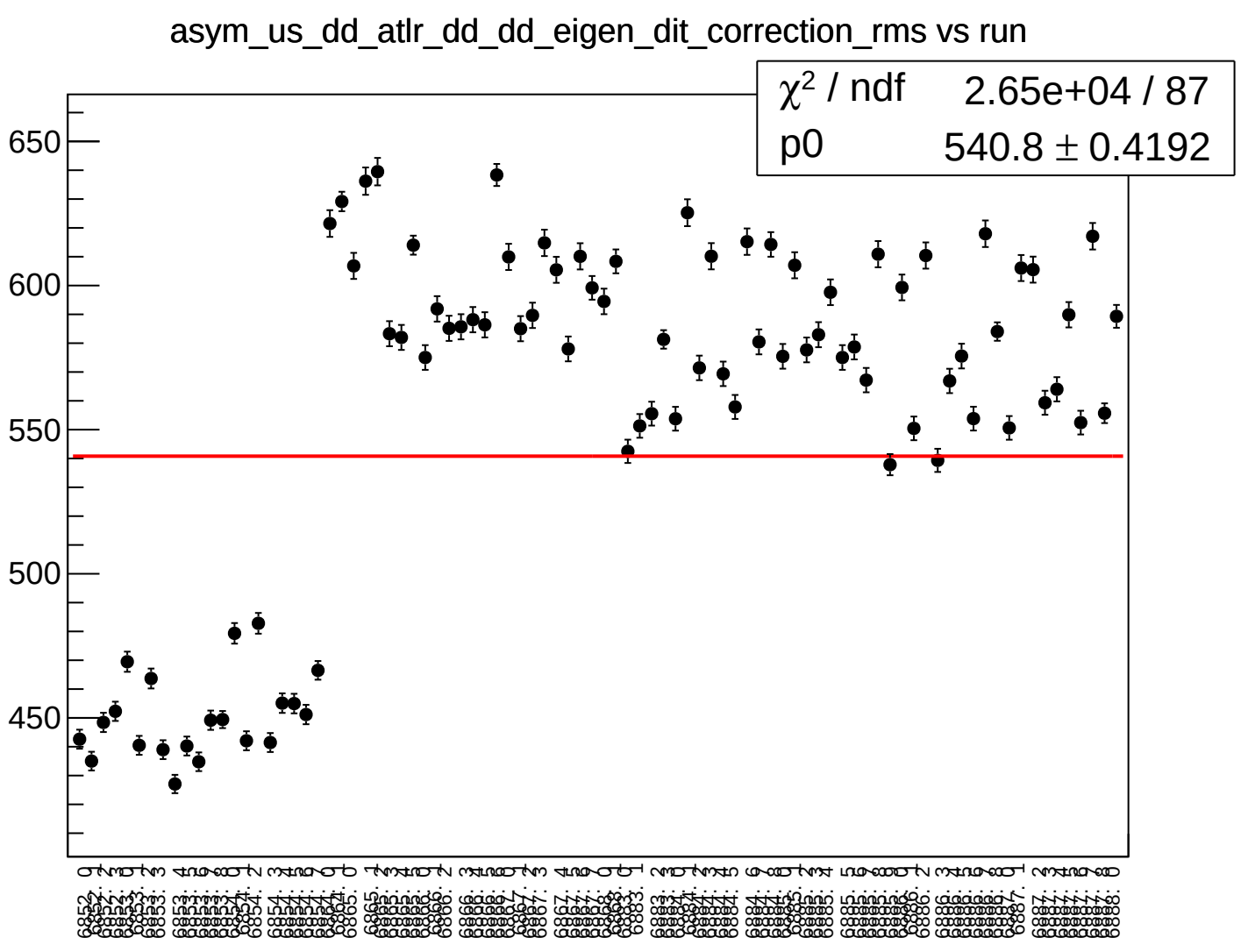

pull1D
Entries 88
Mean 0.00692
Std Dev 0.8672
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

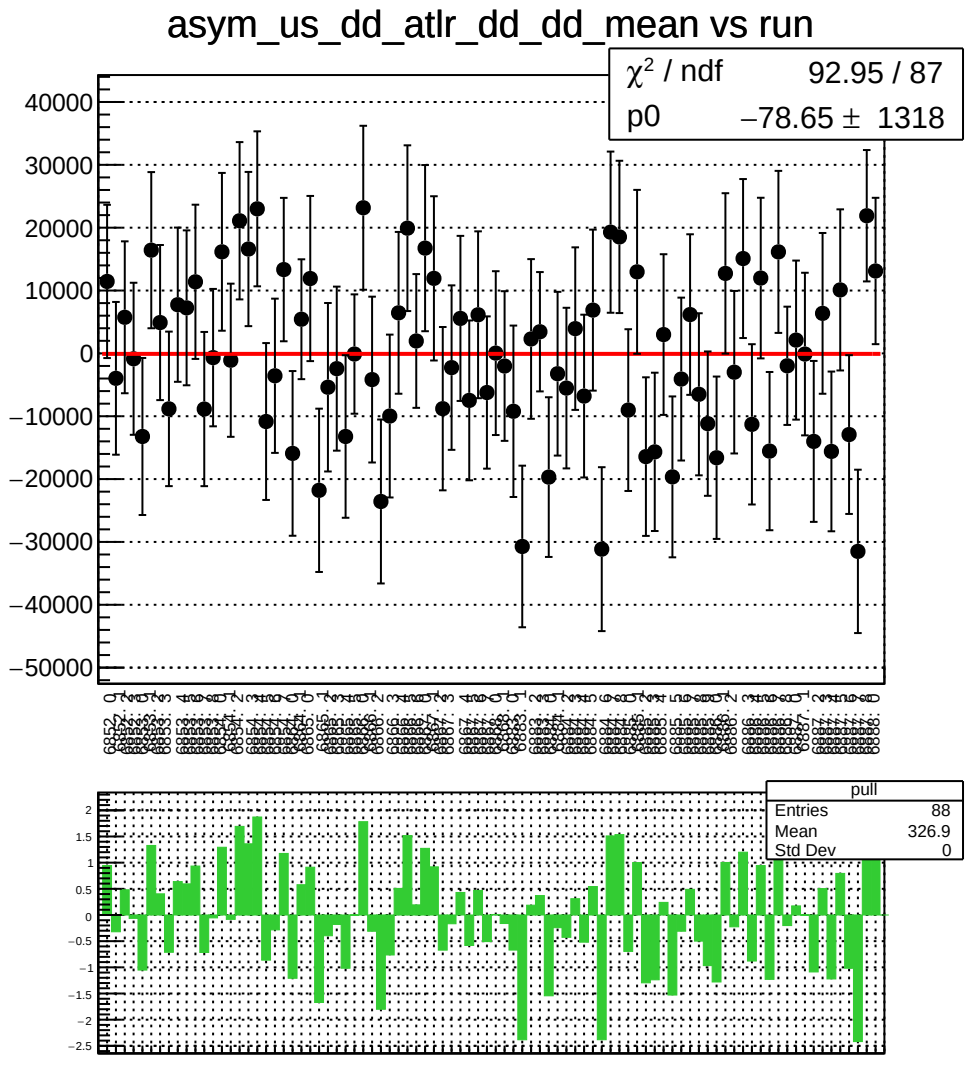

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.65e+04 / 87
p0 540.8 ± 0.4192
650
600
550
500
450

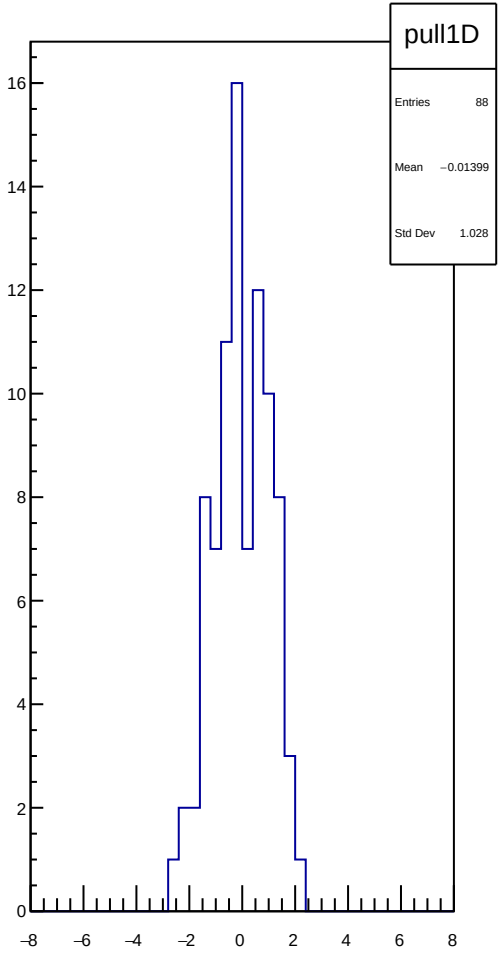

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 115.8 / 87
p0 −1180 ± 1174
pull
Entries 88
Mean 374.3
Std Dev 0
pull1D
Entries 88
Mean −0.008866
Std Dev 1.147

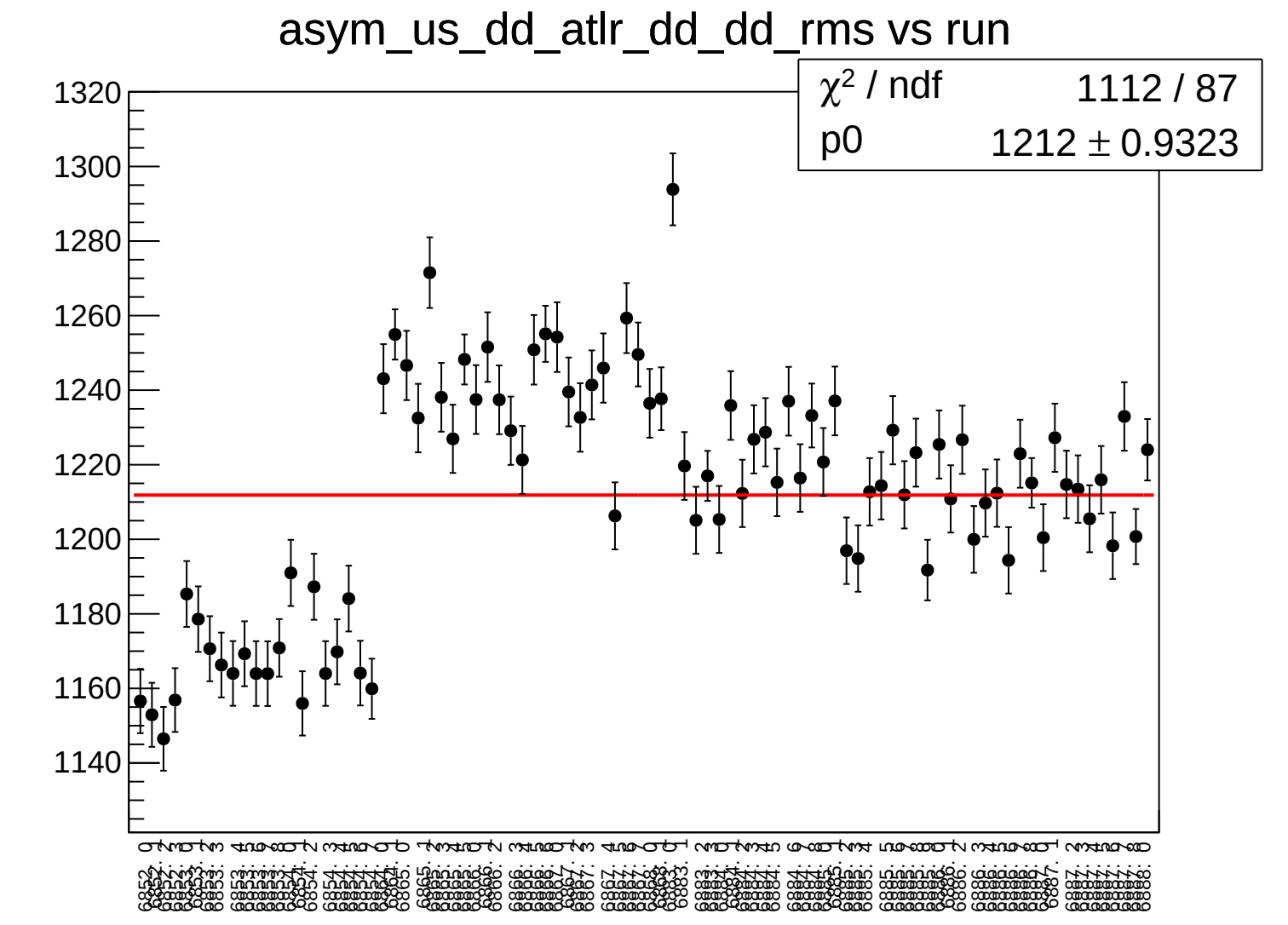

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 260.1 / 87
p0 1079 ± 0.8301
1200
1180
1160
1140
1120
1100
1080
1060
1040

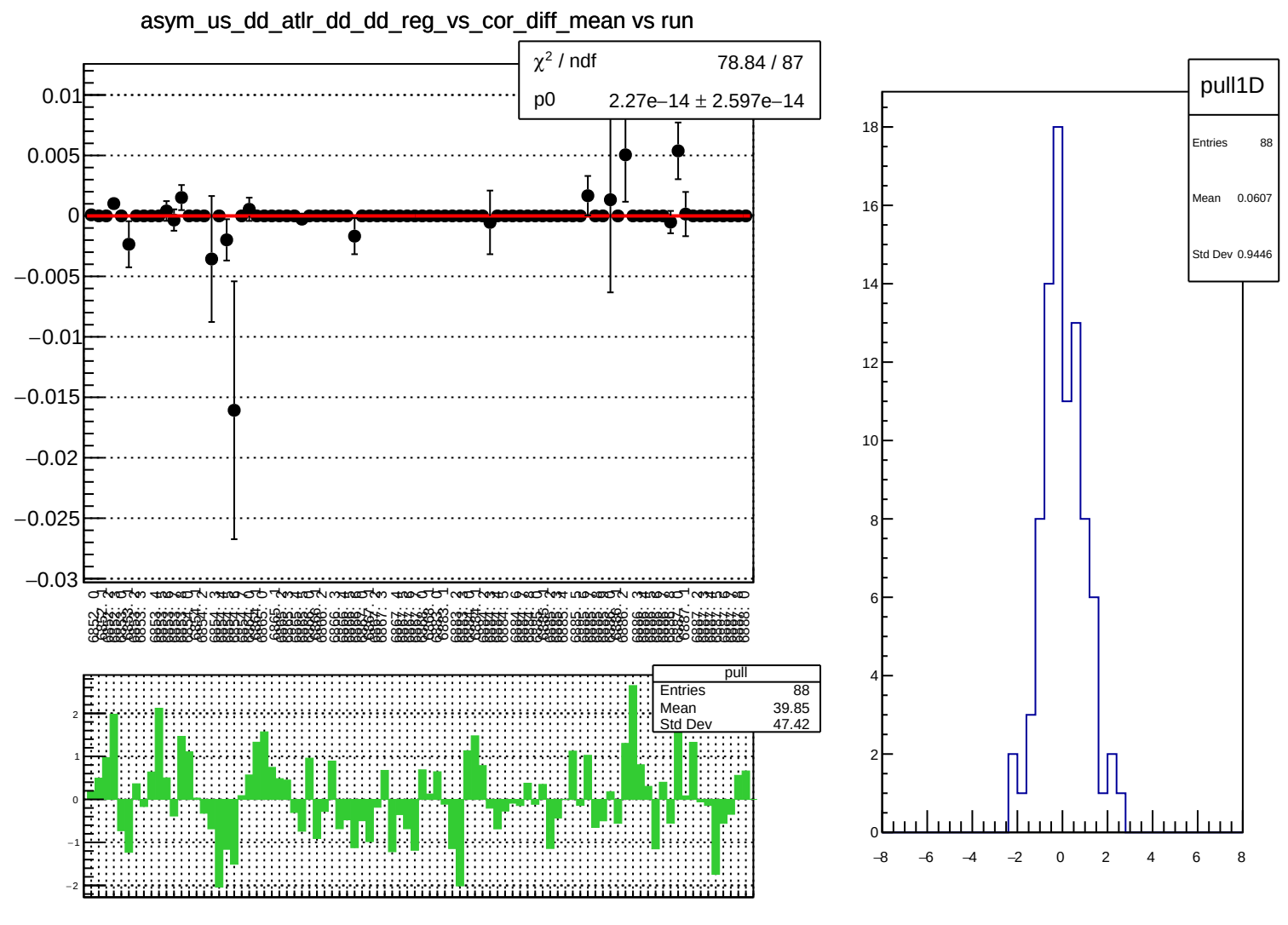

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.19 / 87
p0 −1029 ± 592.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 400.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.006921
Std Dev 0.8672
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

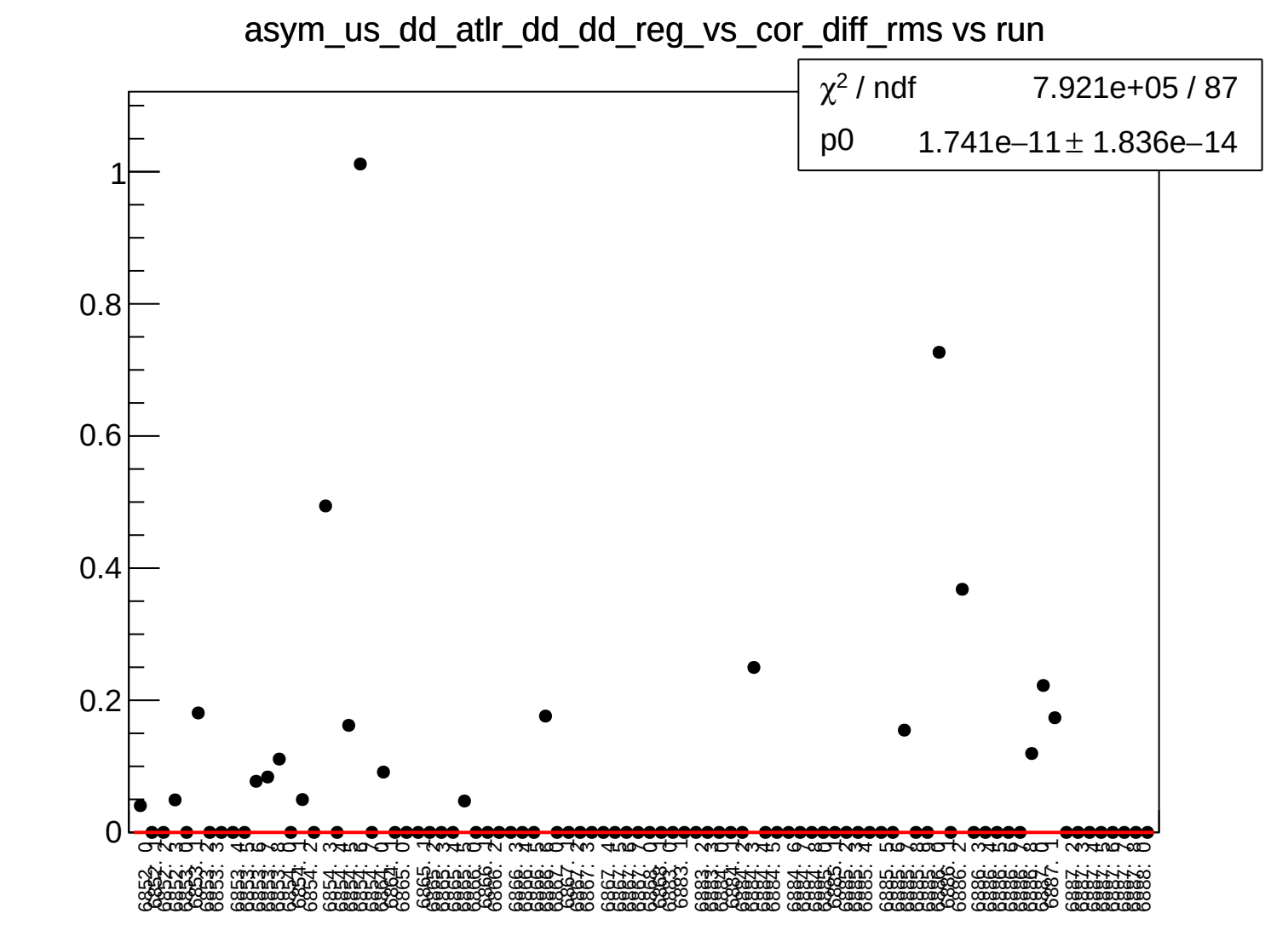

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.65e+04 / 87
p0 540.8 ± 0.4192
650
600
550
500
450

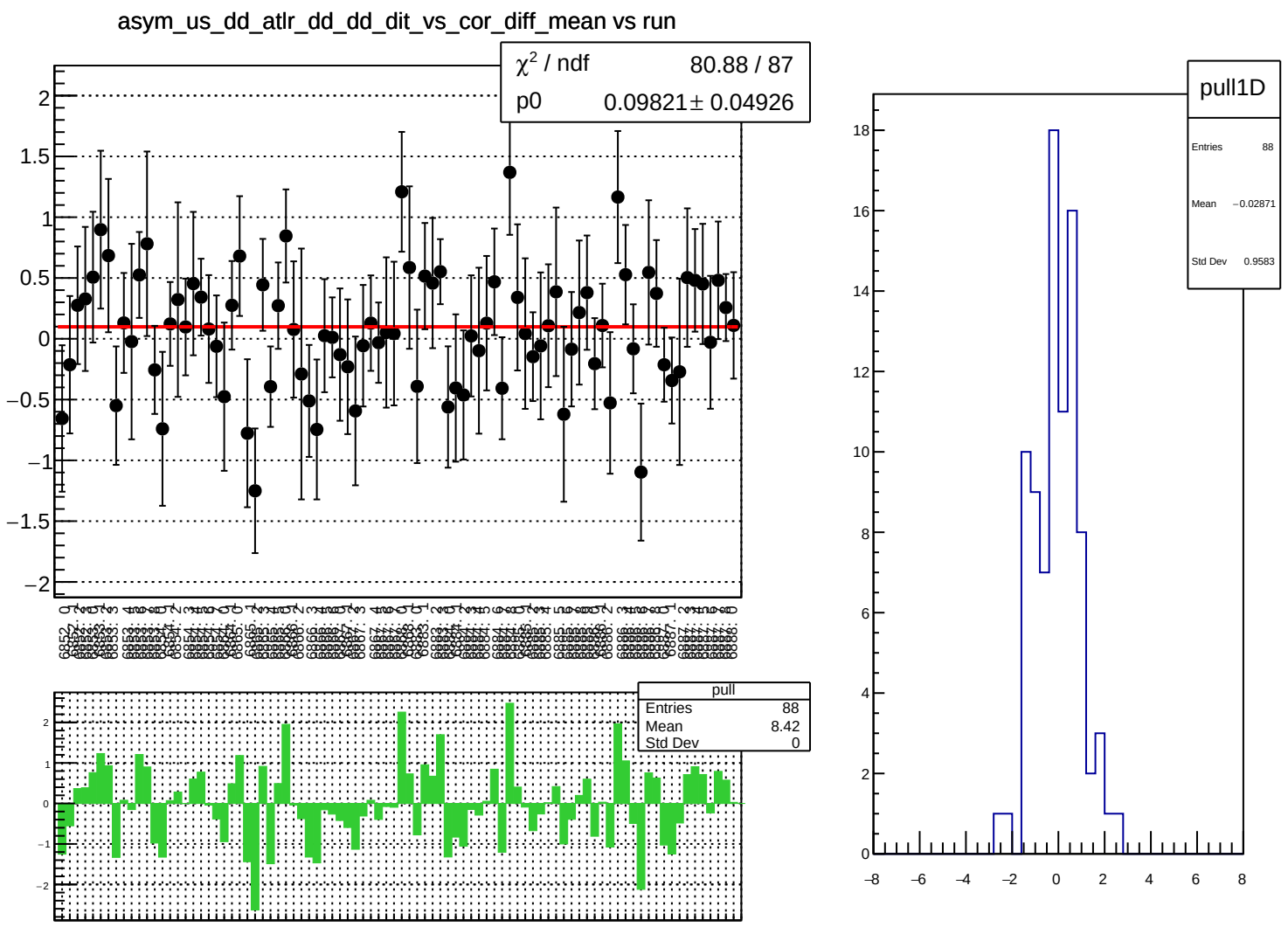

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 92.95 / 87
p0 −78.65 ± 1318
pull
Entries 88
Mean 326.9
Std Dev 0

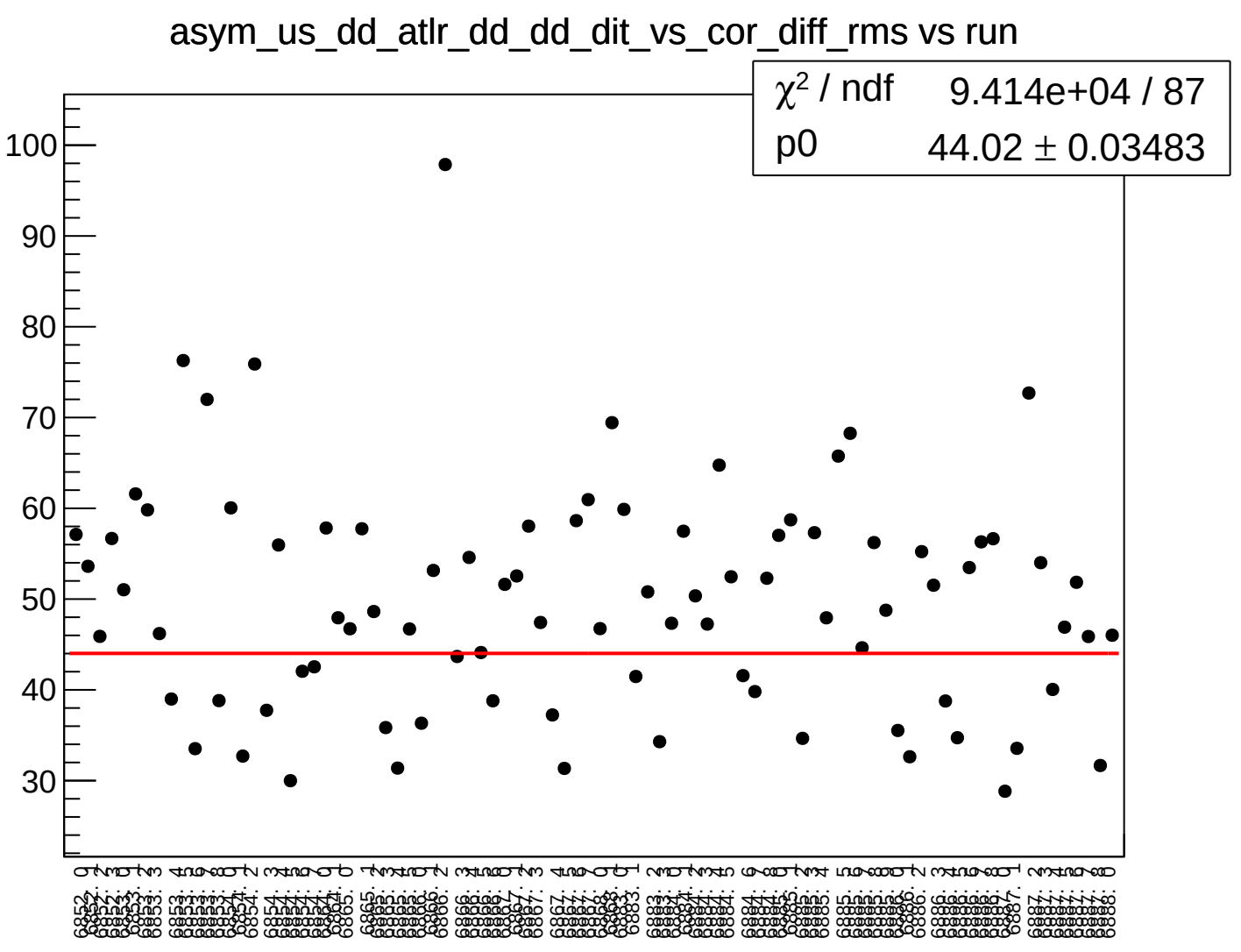

pull1D
Entries 88
Mean −0.01399
Std Dev 1.028


asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1112 / 87
p0 1212 ± 0.9323
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140

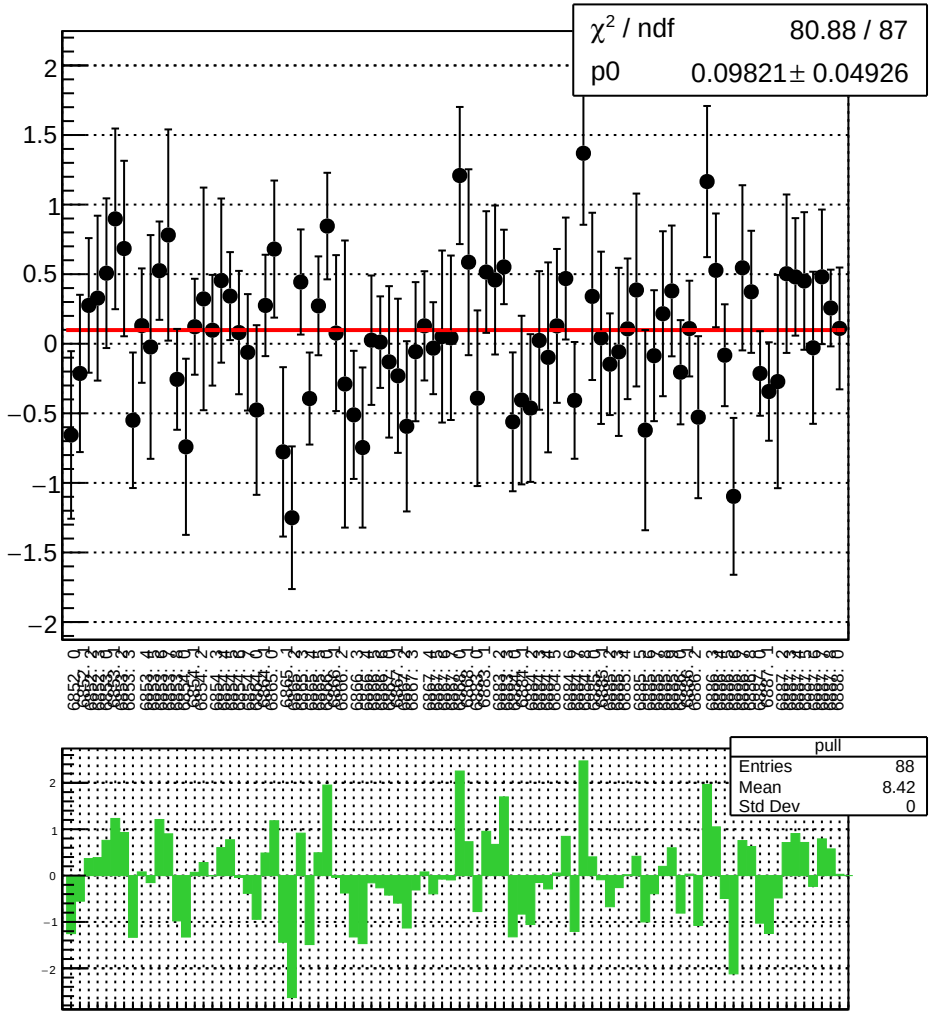

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.84 / 87
p0 2.27e−14 ± 2.597e−14
pull
Entries 88
Mean 39.85
Std Dev 47.42
pull1D
Entries 88
Mean 0.0607
Std Dev 0.9446

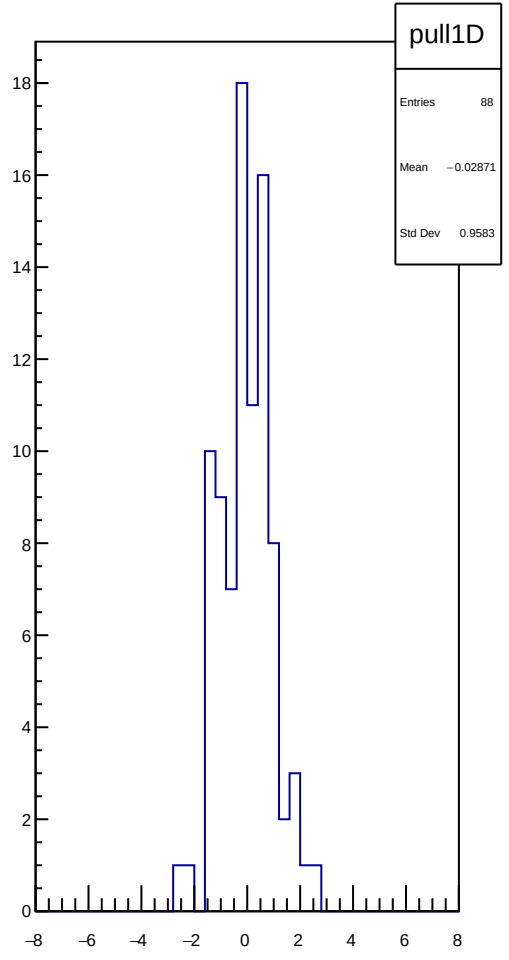

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.921e+05 / 87
p0 1.741e−11 ± 1.836e−14
1
0.8
0.6
0.4
0.2
0

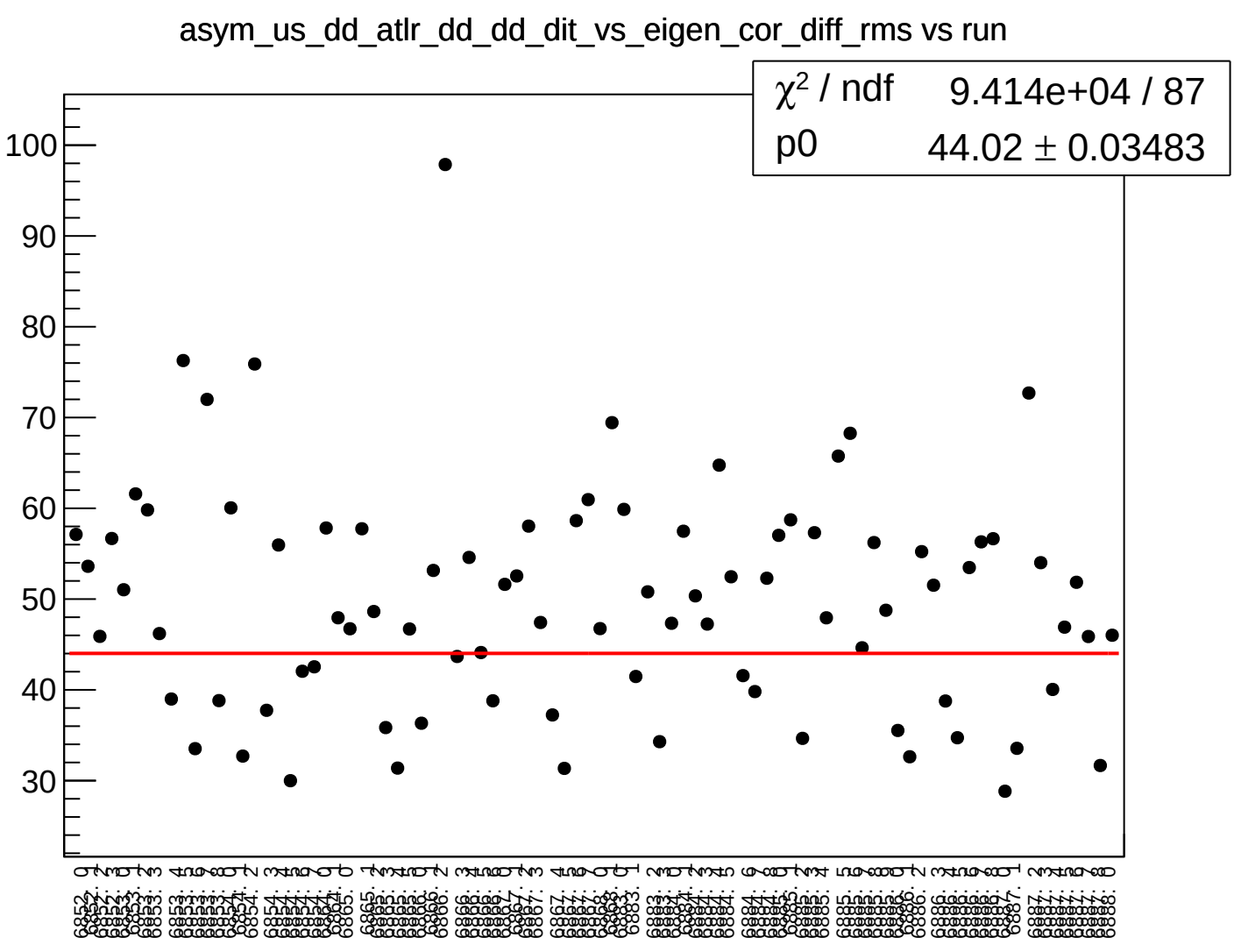

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.88 / 87
p0 0.09821 ± 0.04926
pull
Entries 88
Mean 8.42
Std Dev 0
pull1D
Entries 88
Mean −0.02871
Std Dev 0.9583

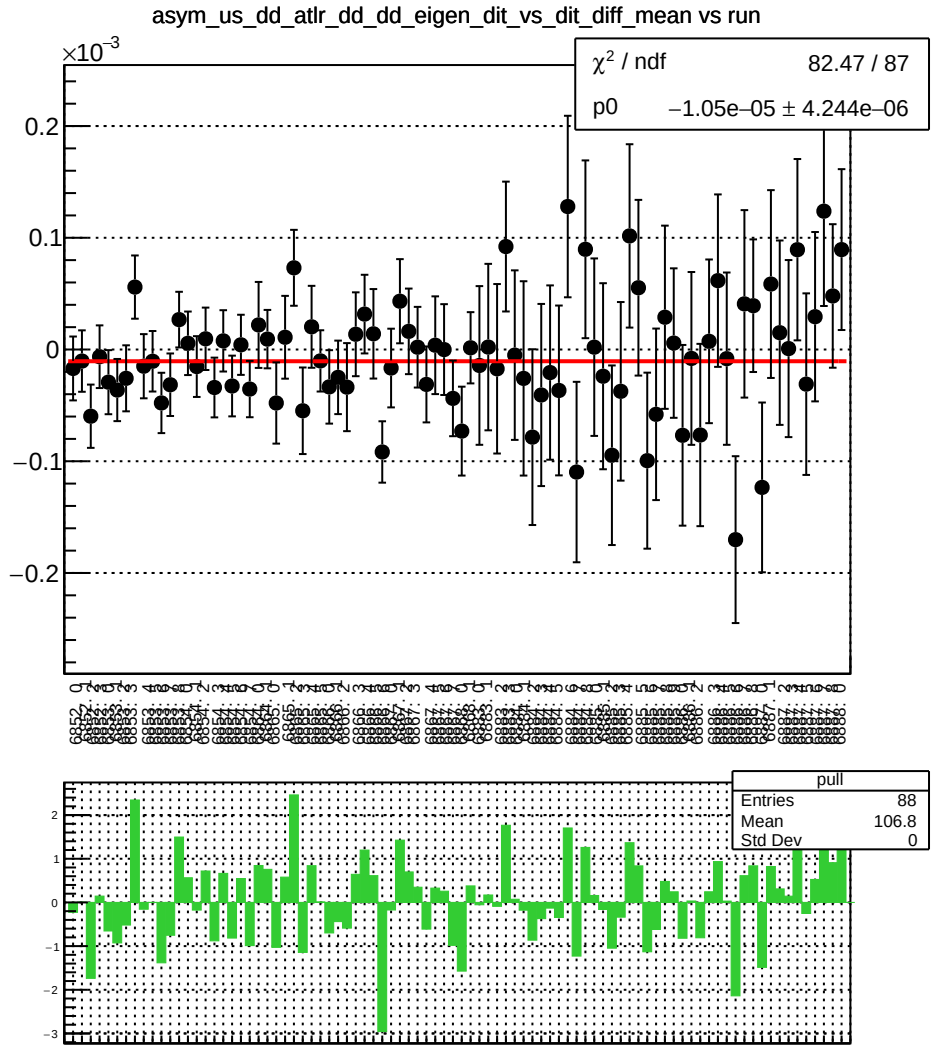

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.414e+04 / 87
p0 44.02 ± 0.03483
100
90
80
70
60
50
40
30

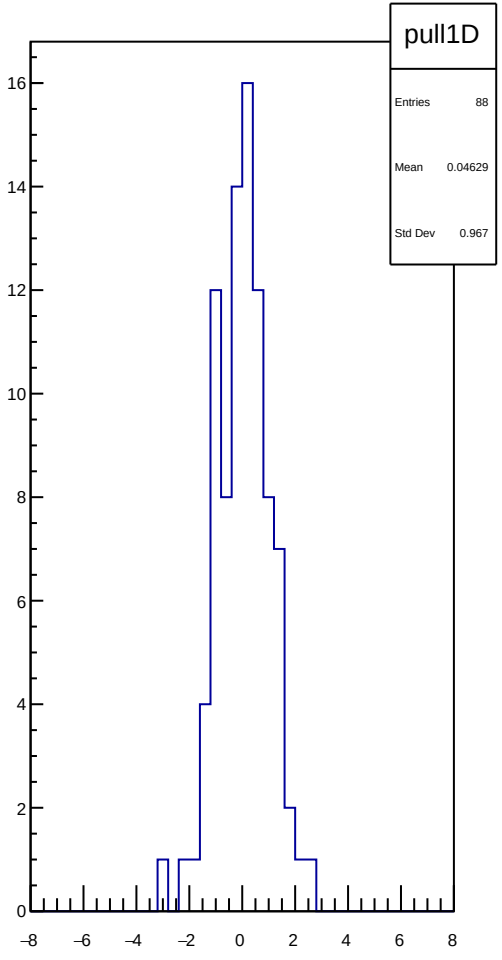
asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run

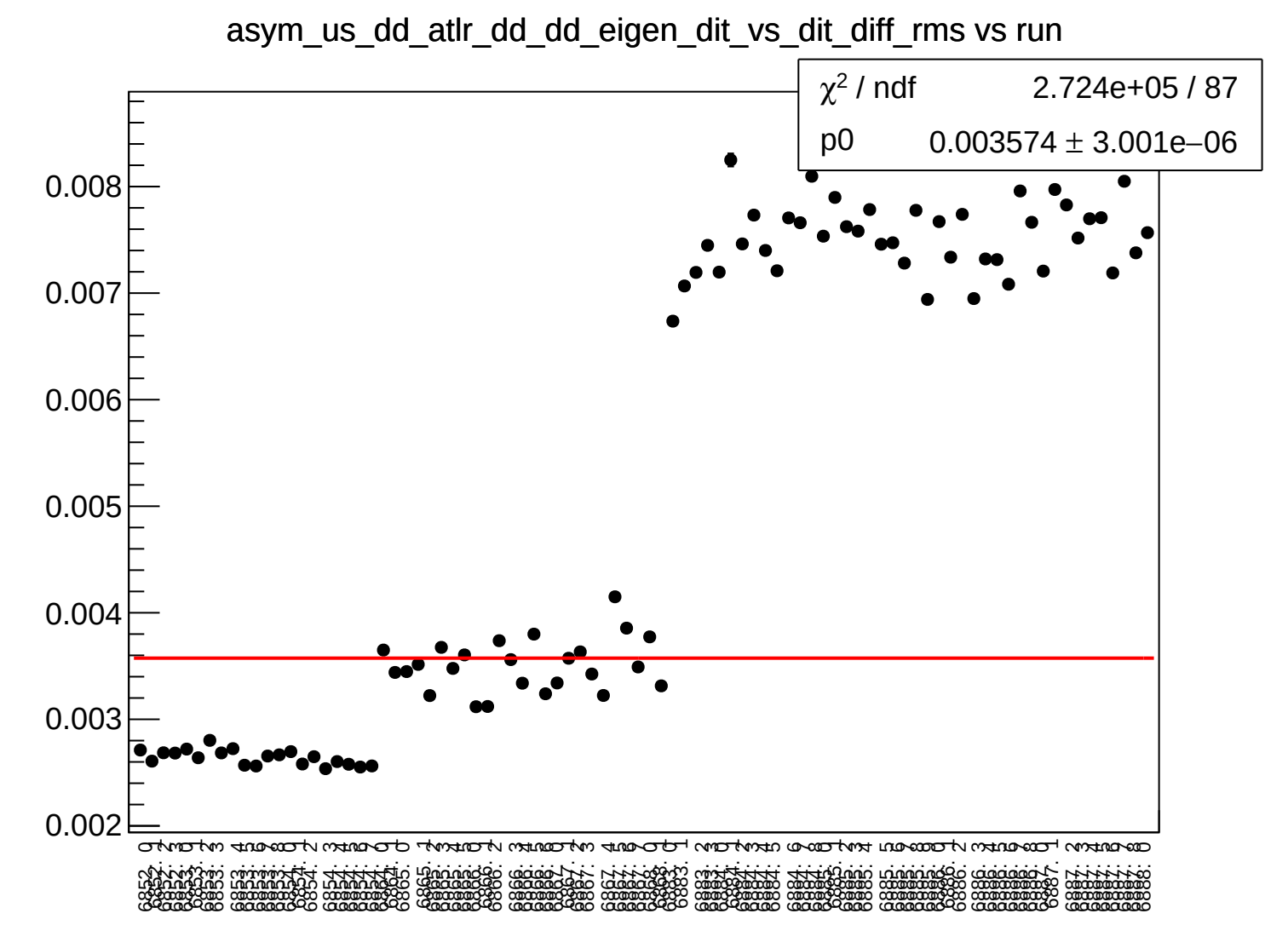


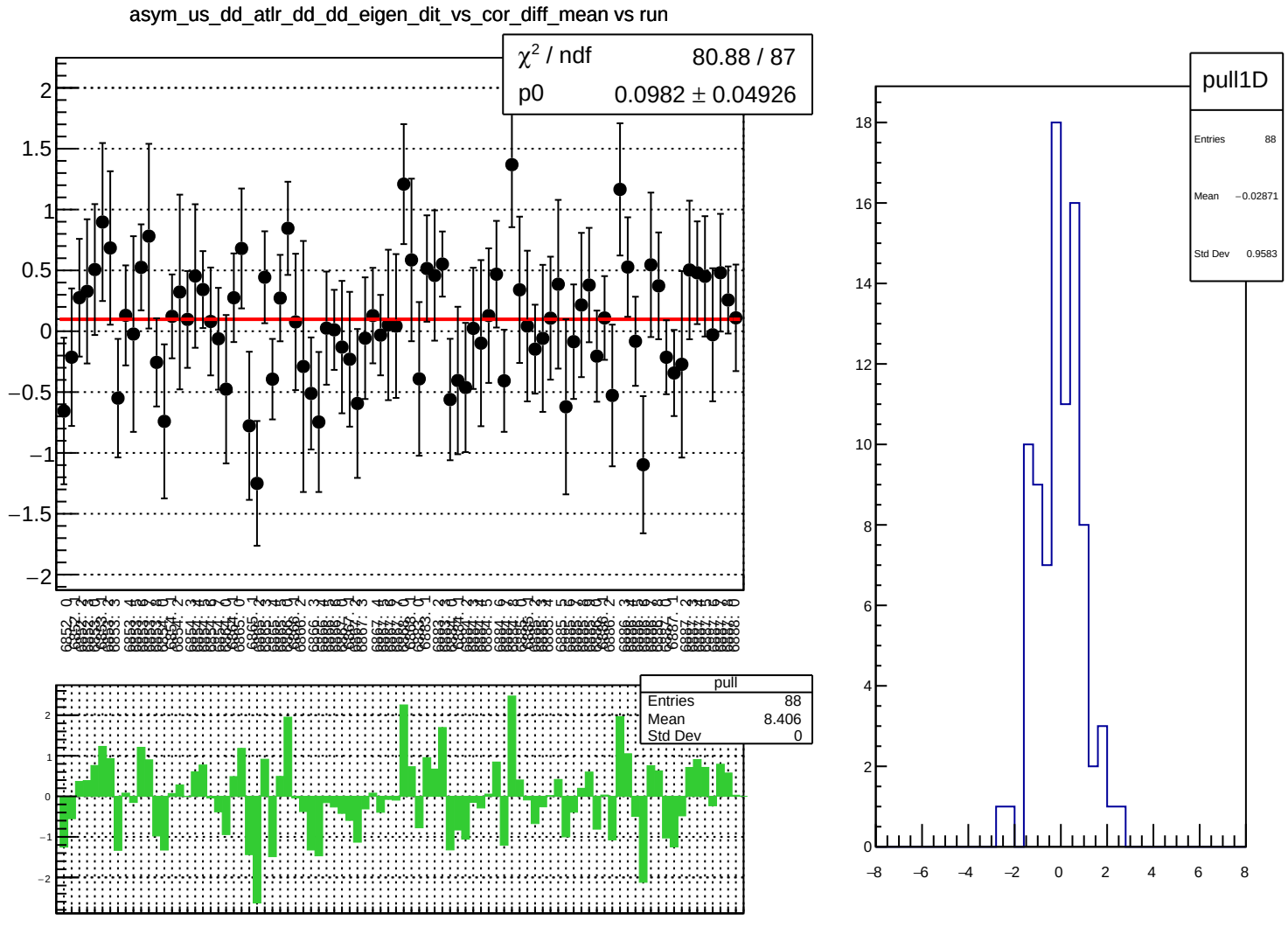


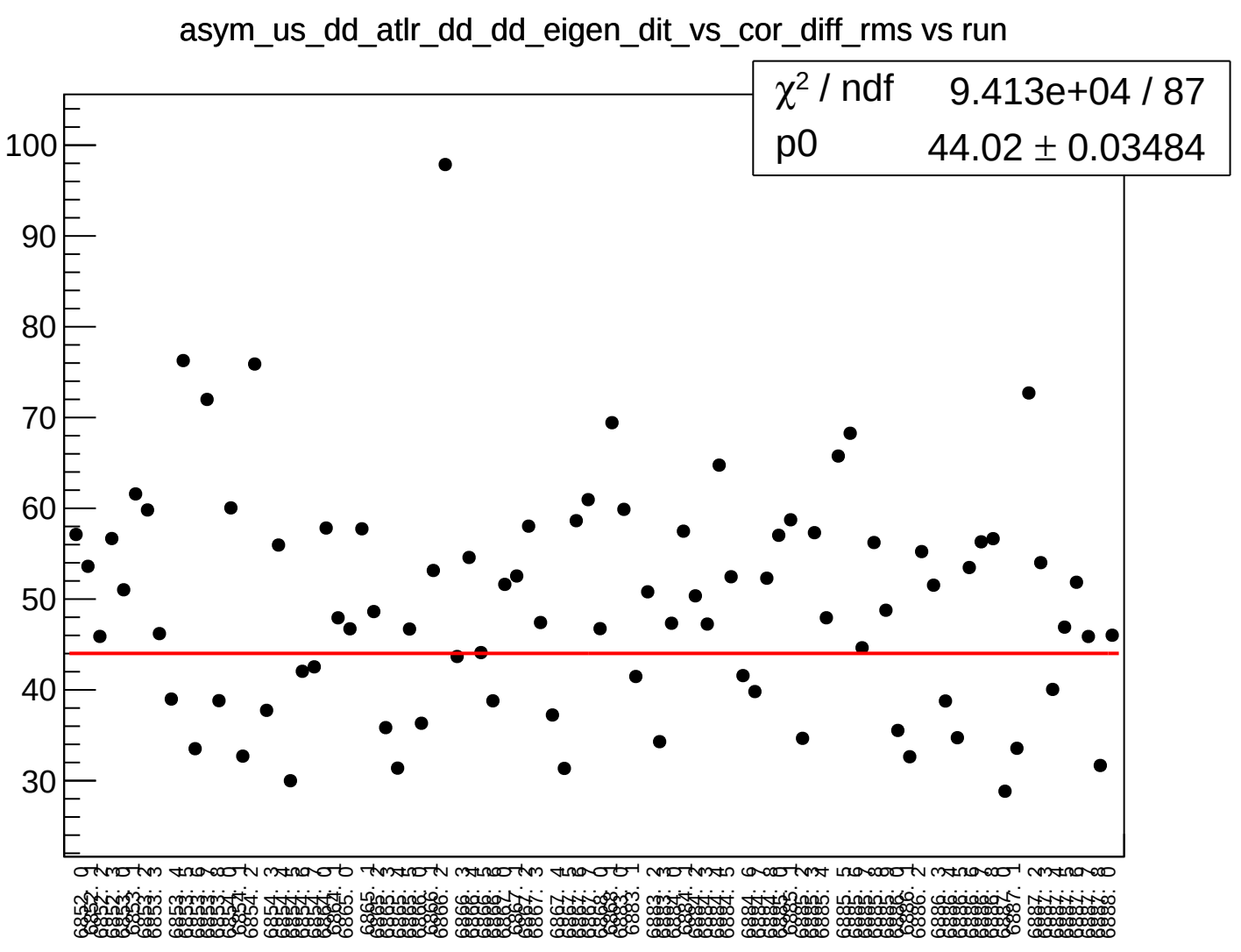

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.414e+04 / 87
p0 44.02 ± 0.03483
100
90
80
70
60
50
40
30

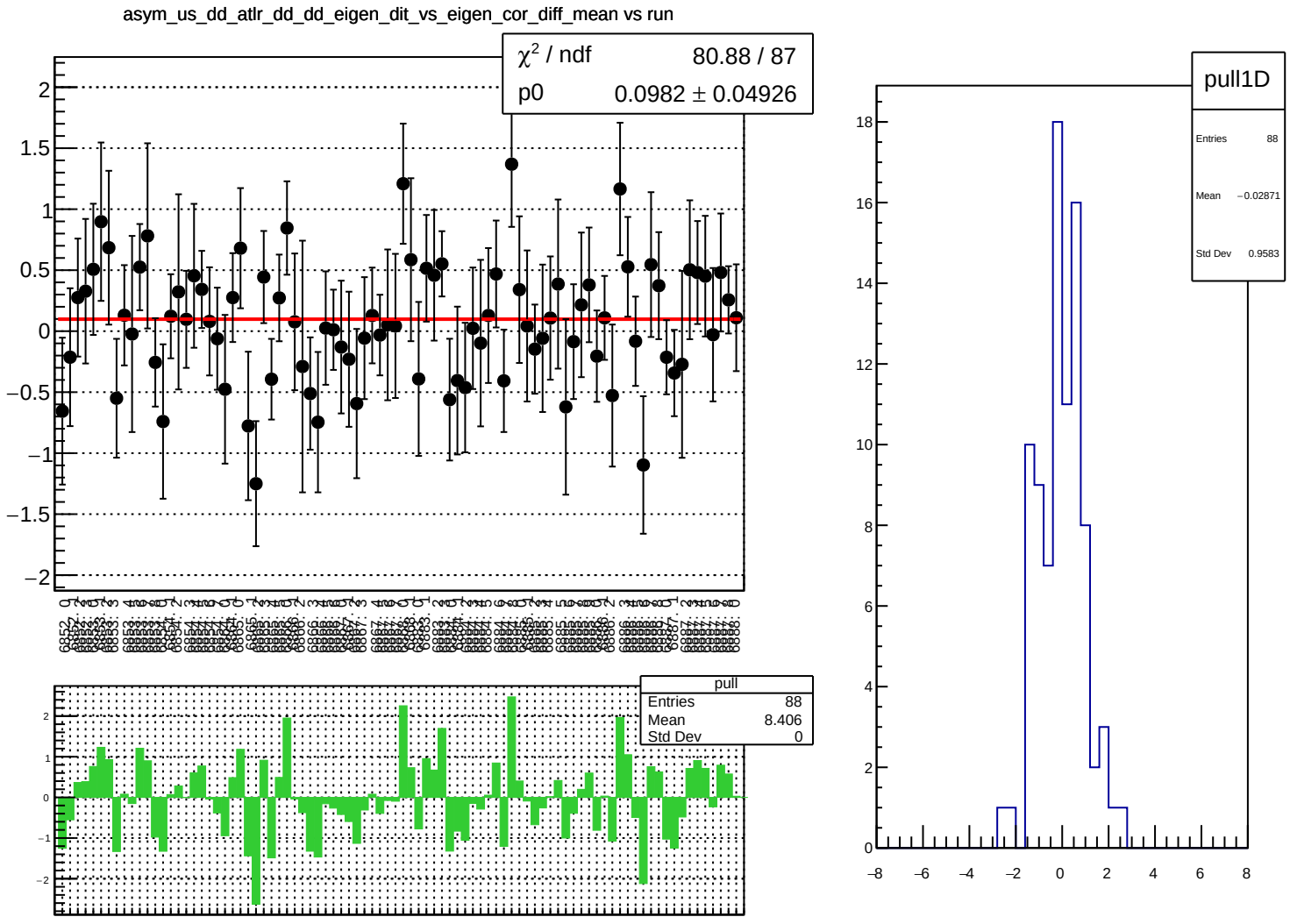

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.47 / 87
p0 −1.05e−05 ± 4.244e−06
pull
Entries 88
Mean 106.8
Std Dev 0

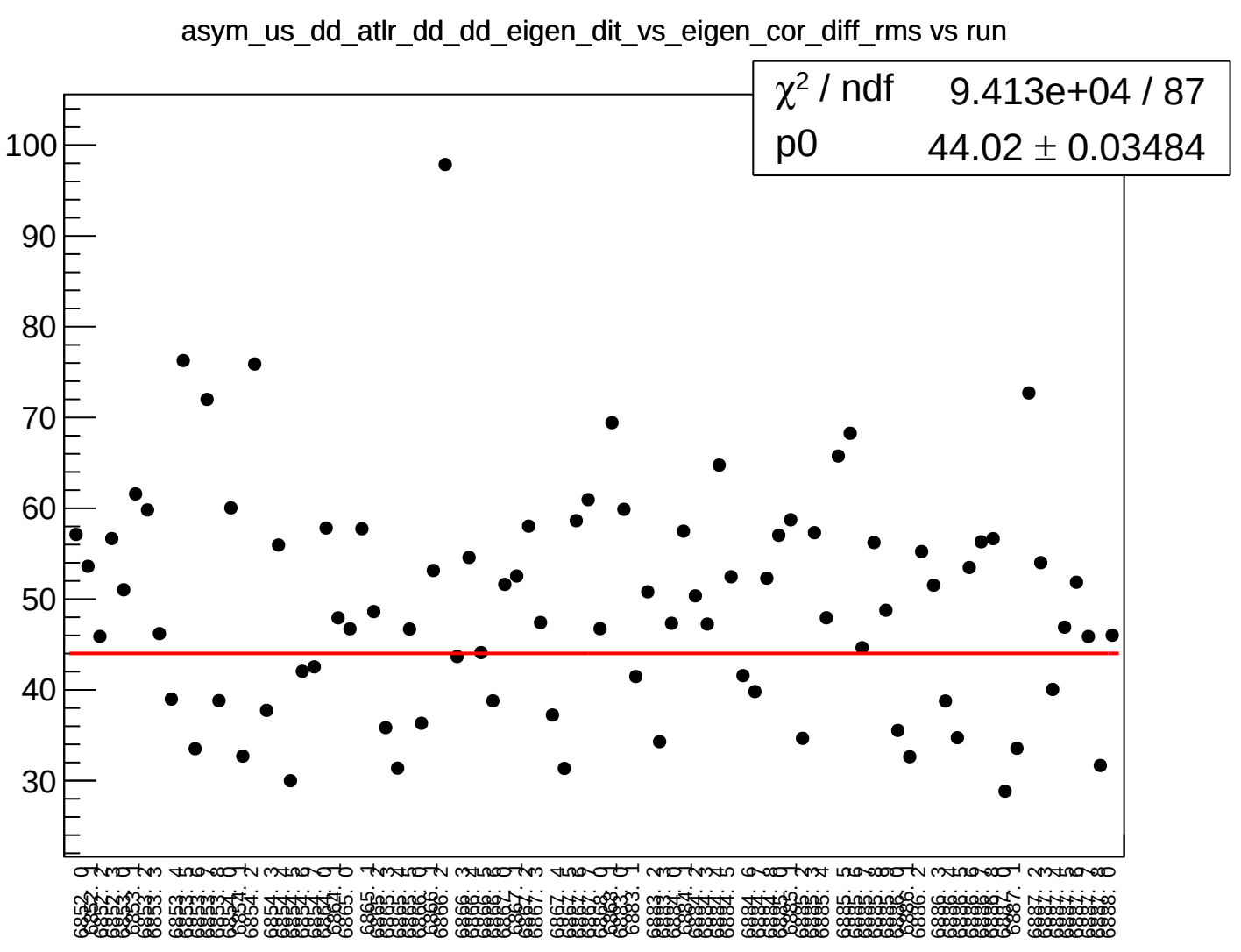

pull1D
Entries 88
Mean 0.04629
Std Dev 0.967

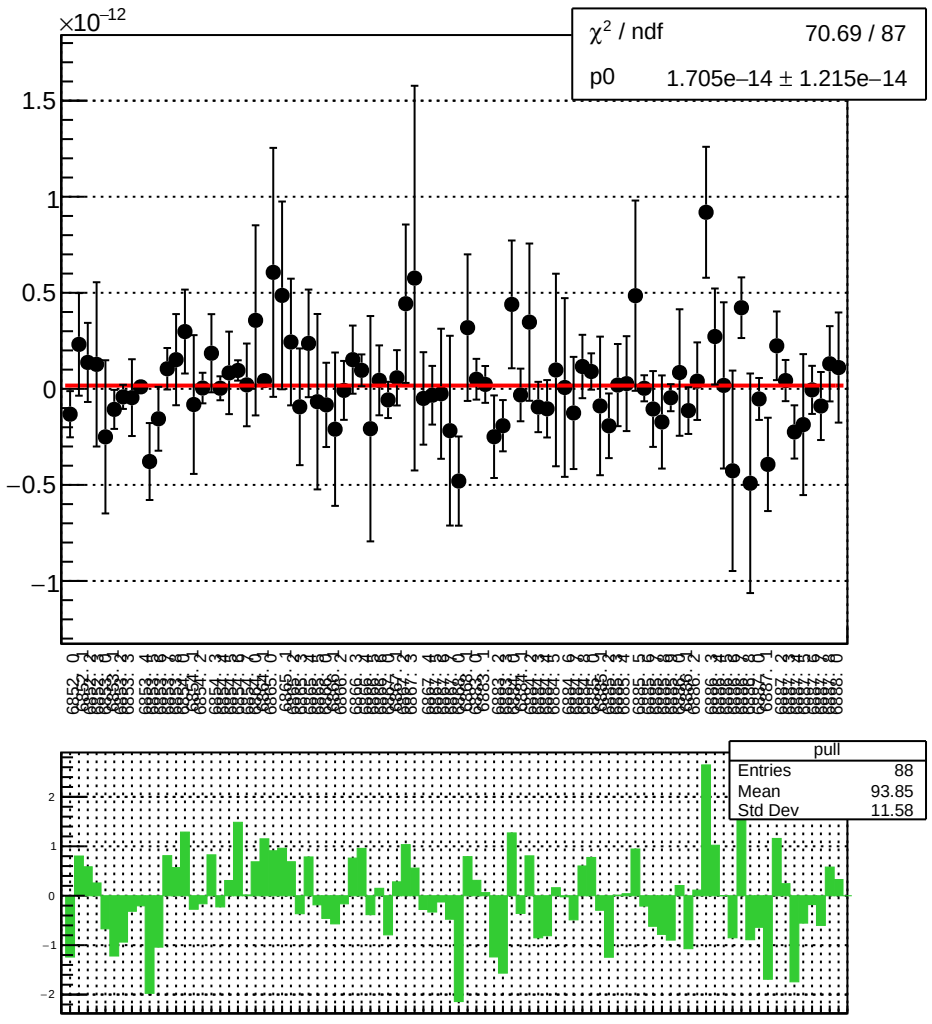

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.724e+05 / 87
p0 0.003574 ± 3.001e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

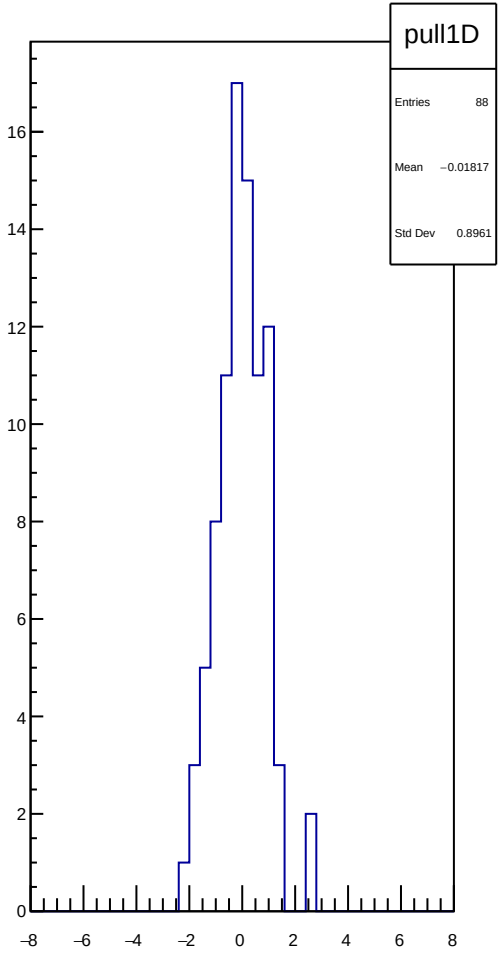

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.88 / 87
p0 0.0982 ± 0.04926
pull
Entries 88
Mean 8.406
Std Dev 0
pull1D
Entries 88
Mean −0.02871
Std Dev 0.9583

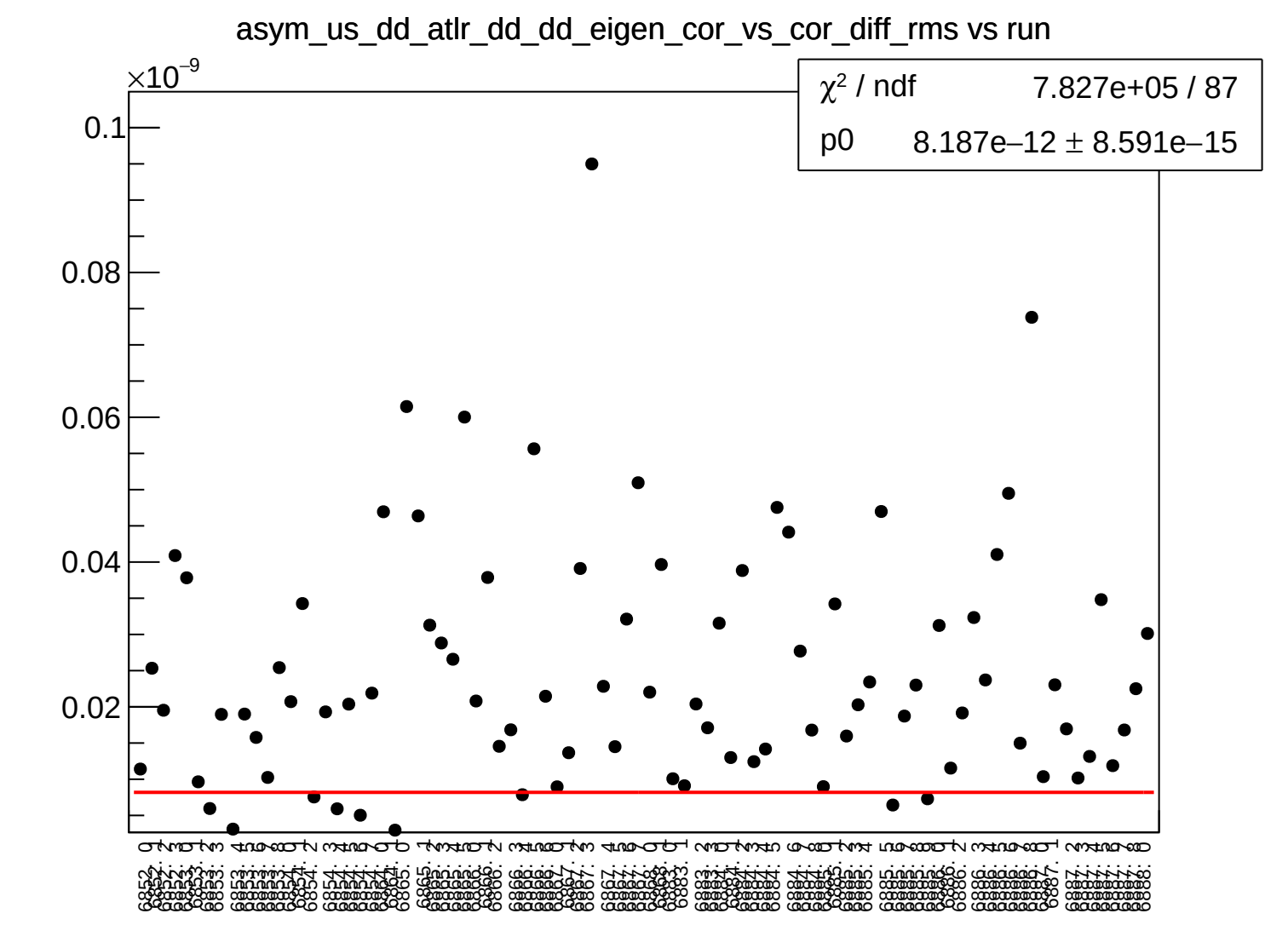

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.413e+04 / 87
p0 44.02 ± 0.03484
100
90
80
70
60
50
40
30

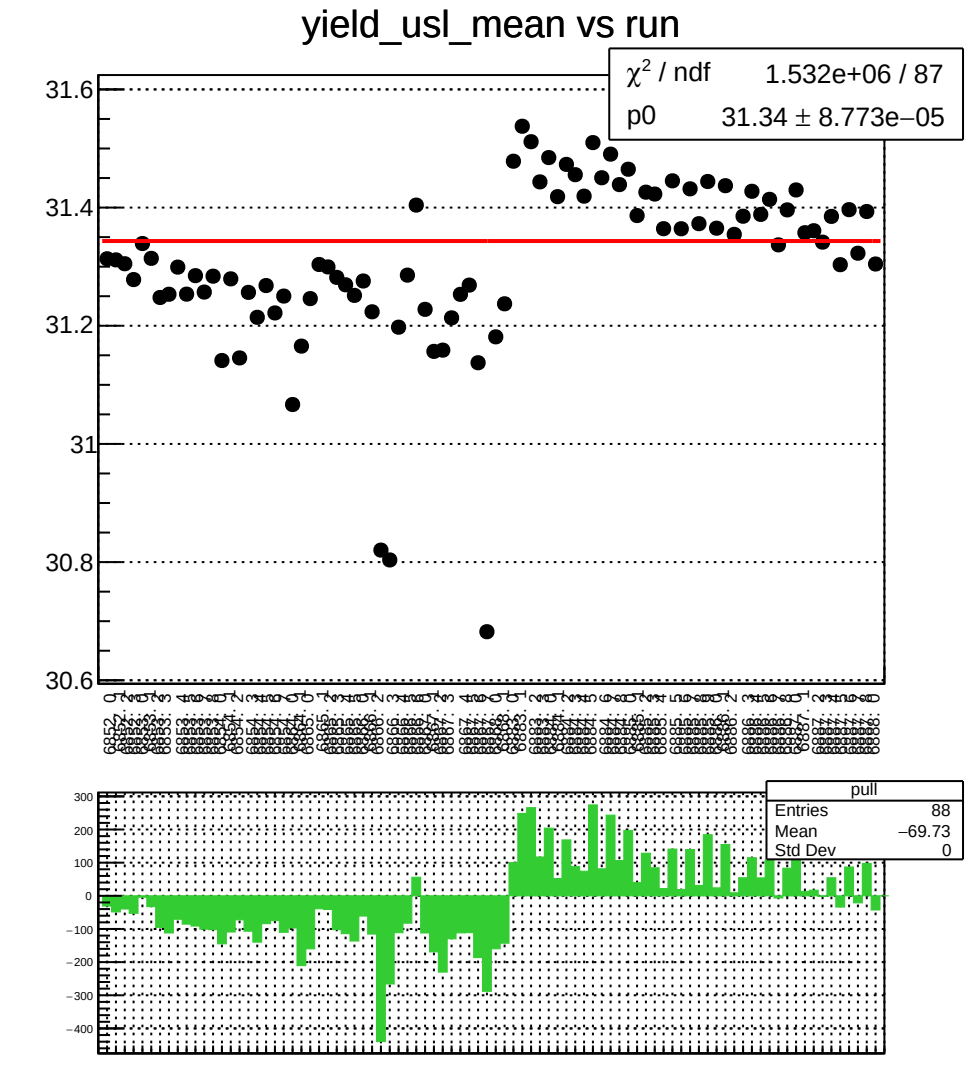

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.88 / 87
p0 0.0982 ± 0.04926
pull
Entries 88
Mean 8.406
Std Dev 0
pull1D
Entries 88
Mean −0.02871
Std Dev 0.9583

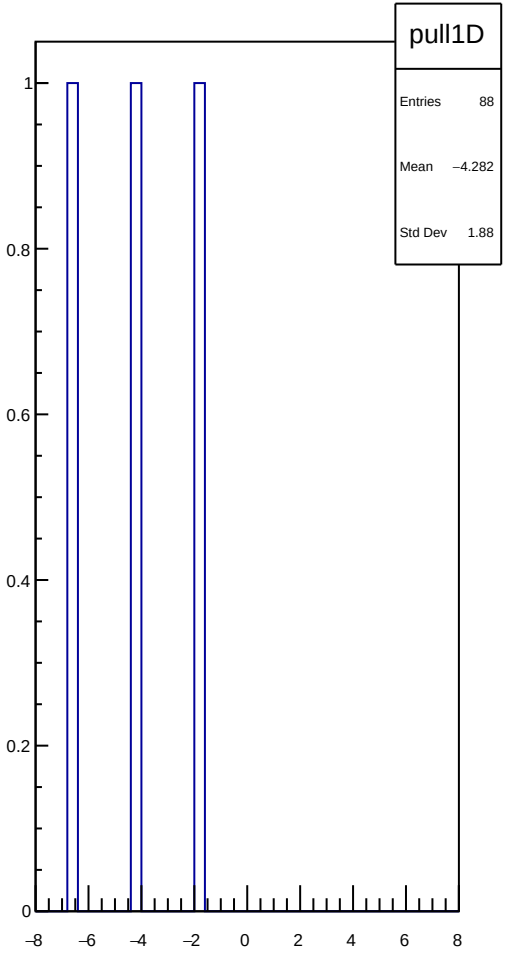

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.413e+04 / 87
p0 44.02 ± 0.03484
100
90
80
70
60
50
40
30

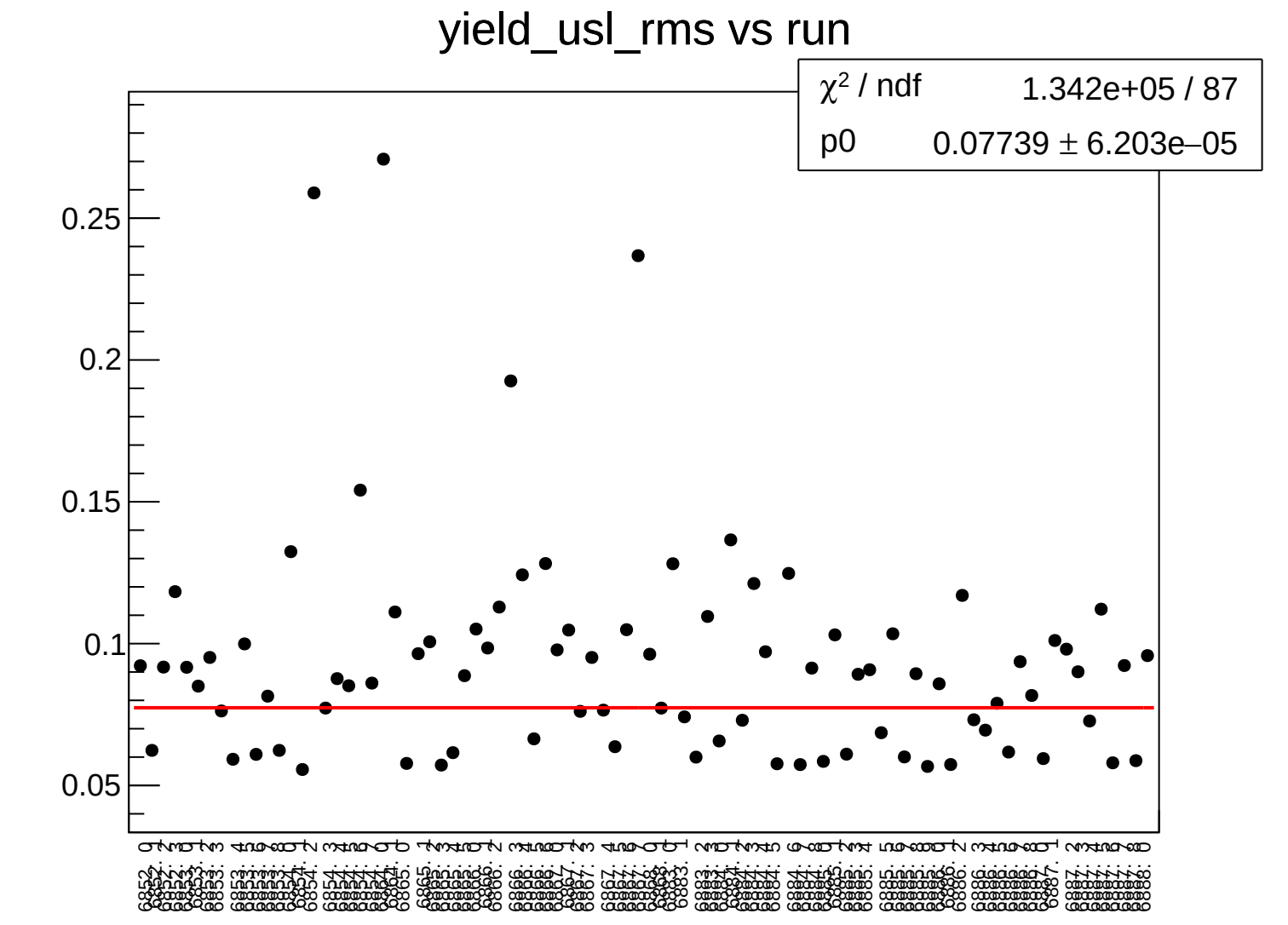

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.69 / 87
p0 1.705e−14 ± 1.215e−14
pull
Entries 88
Mean 93.85
Std Dev 11.58

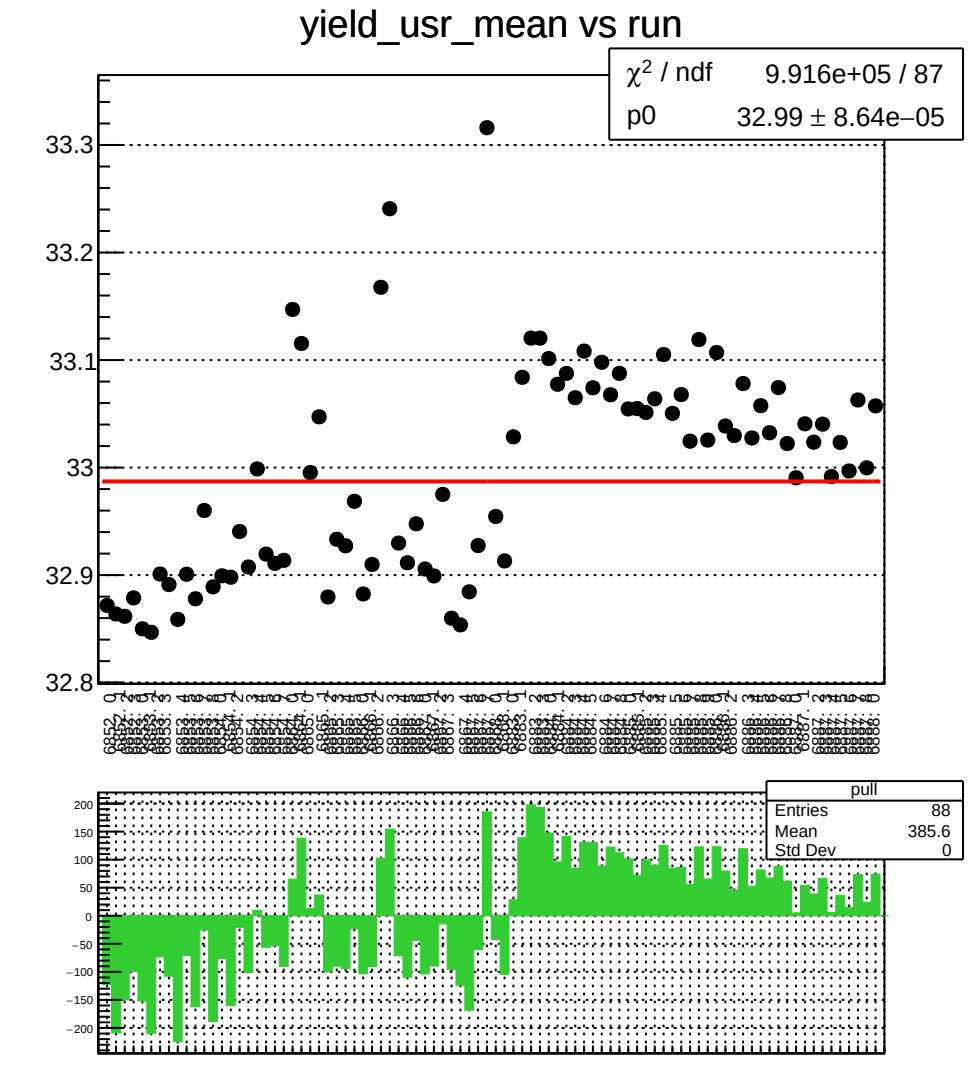

pull1D
Entries 88
Mean −0.01817
Std Dev 0.8961

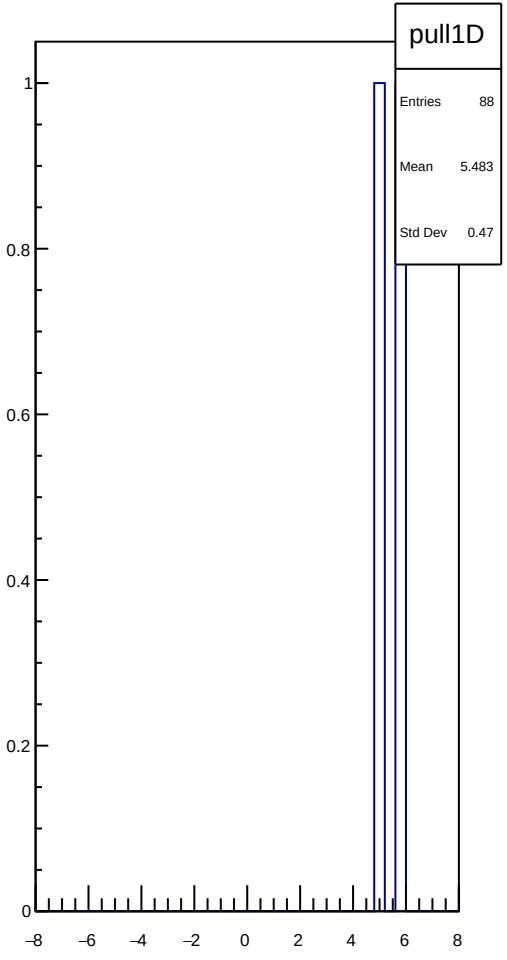

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.827e+05 / 87
p0 8.187e−12 ± 8.591e−15
0.1
0.08
0.06
0.04
0.02

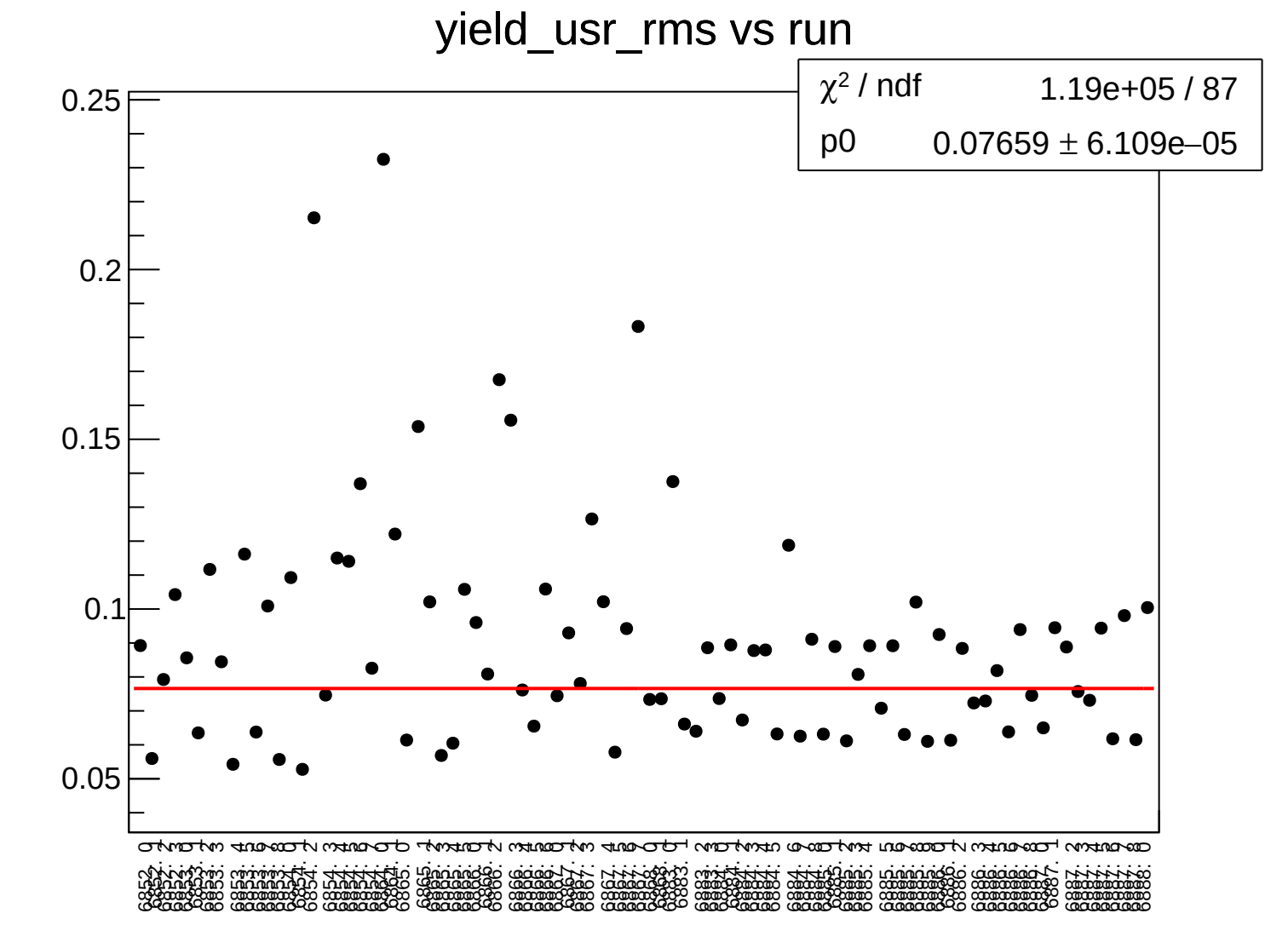

yield_usl_mean vs run
χ² / ndf 1.532e+06 / 87
p0 31.34 ± 8.773e−05
31.6
31.4
31.2
31
30.8
30.6
pull
Entries 88
Mean −69.73
Std Dev 0
300
200
100
0
−100
−200
−300
−400

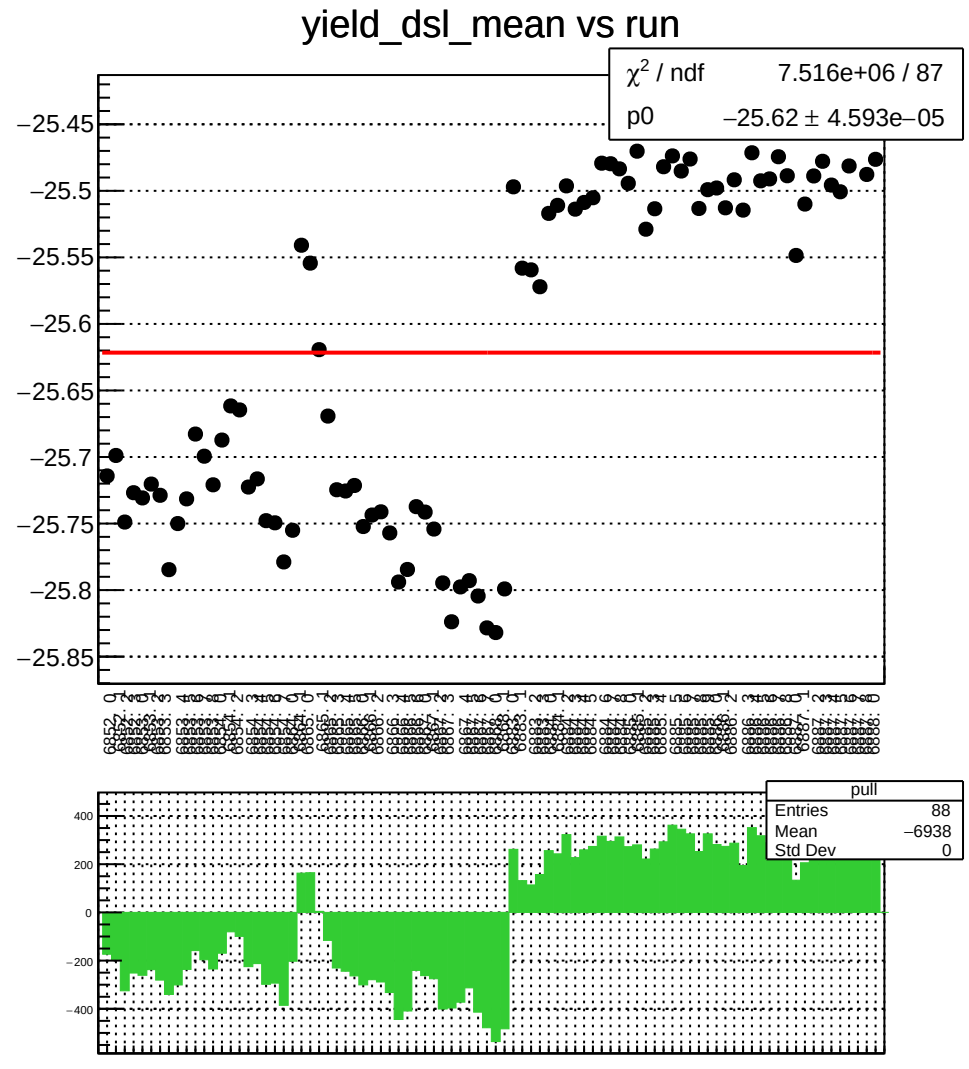

pull1D
Entries 88
Mean −4.282
Std Dev 1.88
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

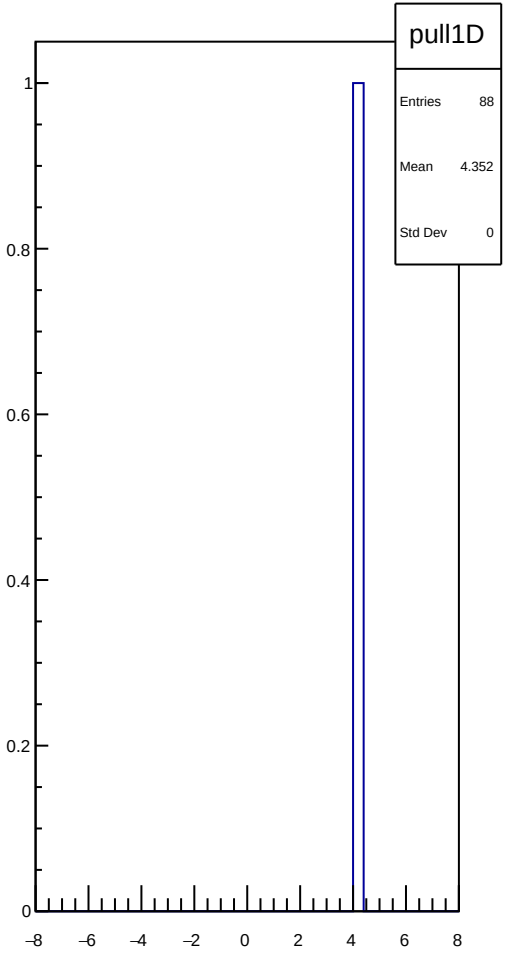

yield_usl_rms vs run
χ² / ndf 1.342e+05 / 87
p0 0.07739 ± 6.203e–05
0.25
0.2
0.15
0.1
0.05

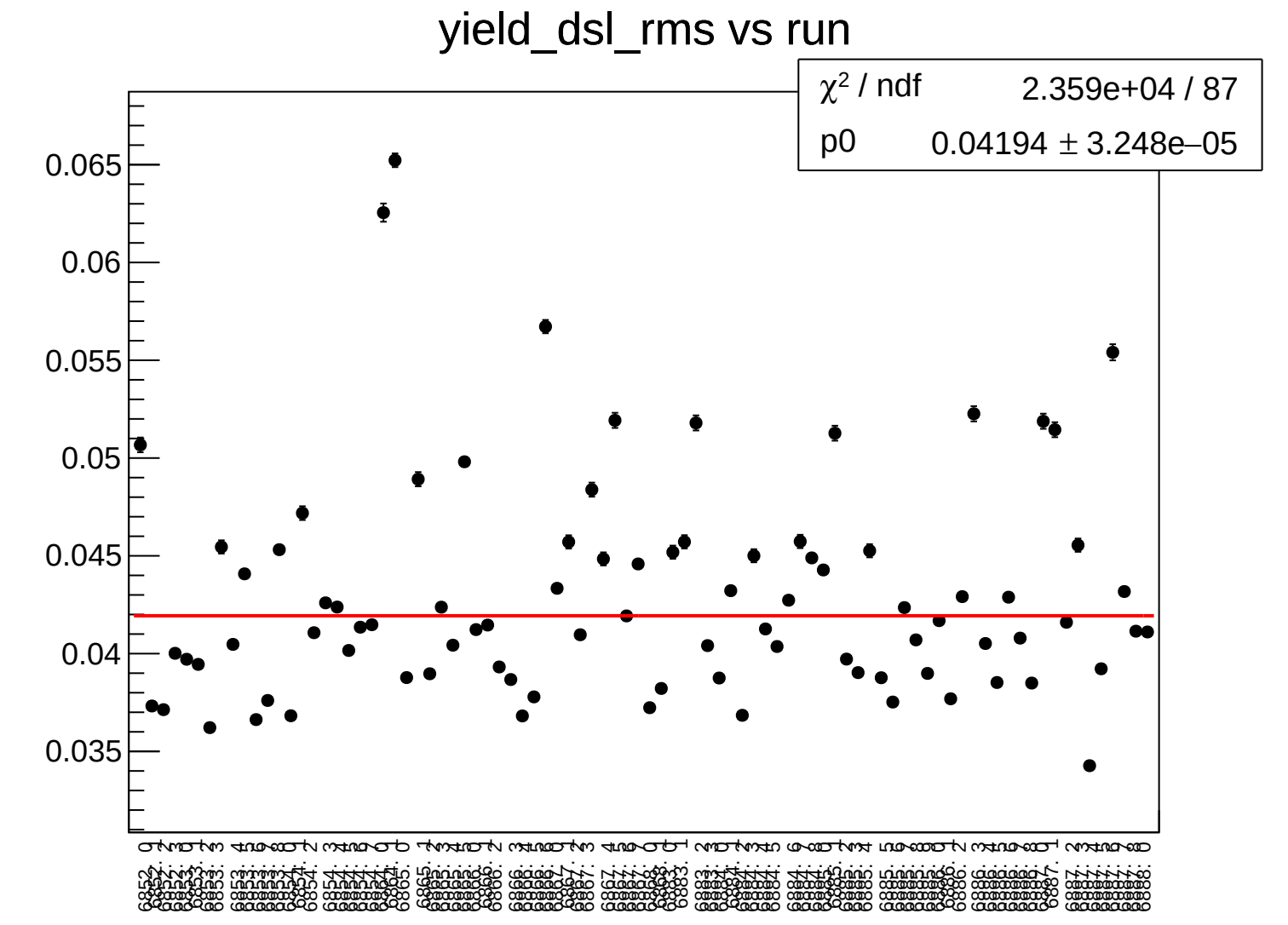

yield_usr_mean vs run
χ² / ndf 9.916e+05 / 87
p0 32.99 ± 8.64e−05
33.3
33.2
33.1
33
32.9
32.8
pull
Entries 88
Mean 385.6
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

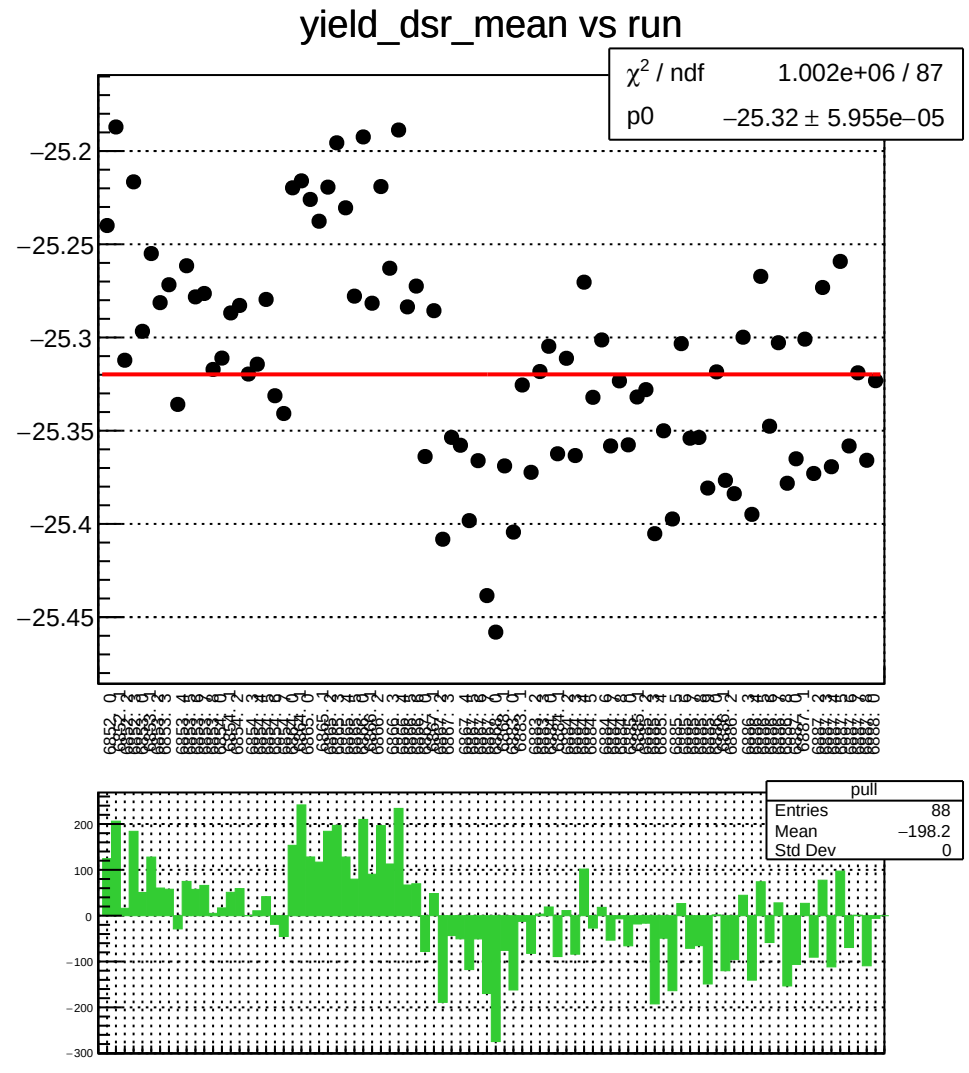

pull1D
Entries 88
Mean 5.483
Std Dev 0.47
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

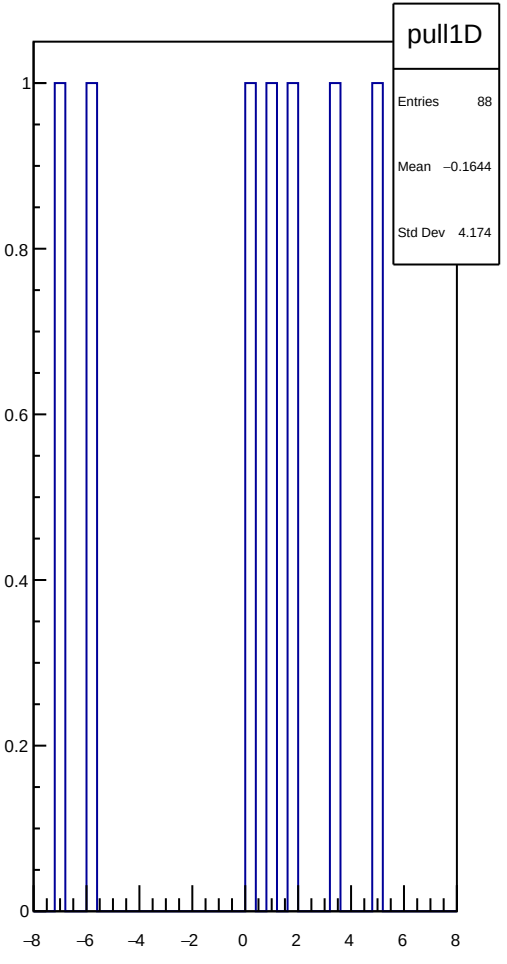

yield_usr_rms vs run
χ² / ndf 1.19e+05 / 87
p0 0.07659 ± 6.109e−05
0.25
0.2
0.15
0.1
0.05

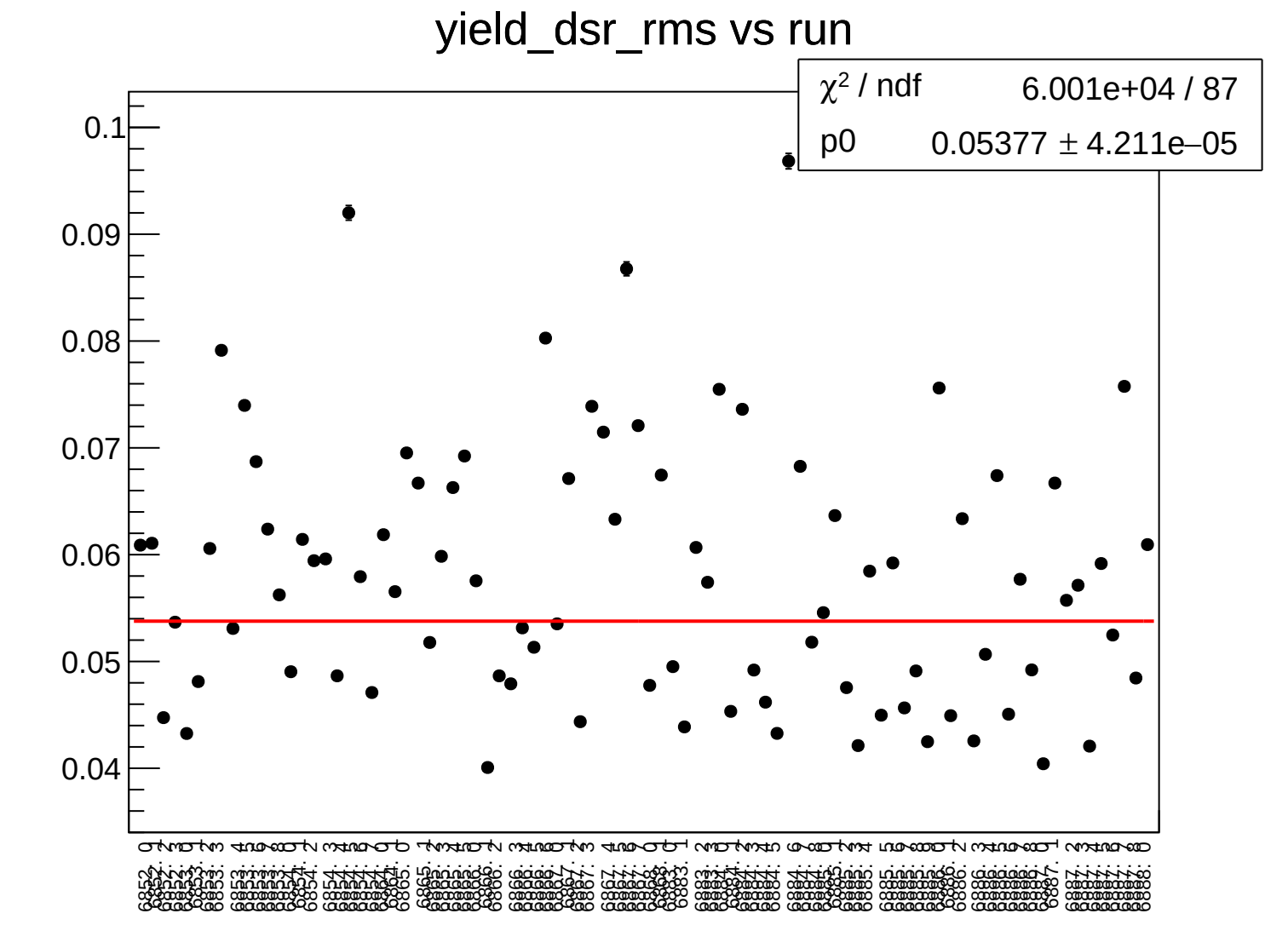

yield_dsl_mean vs run
χ² / ndf 7.516e+06 / 87
p0 −25.62 ± 4.593e−05
−25.45
−25.5
−25.55
−25.6
−25.65
−25.7
−25.75
−25.8
−25.85
pull
Entries 88
Mean −6938
Std Dev 0
400
200
0
−200
−400

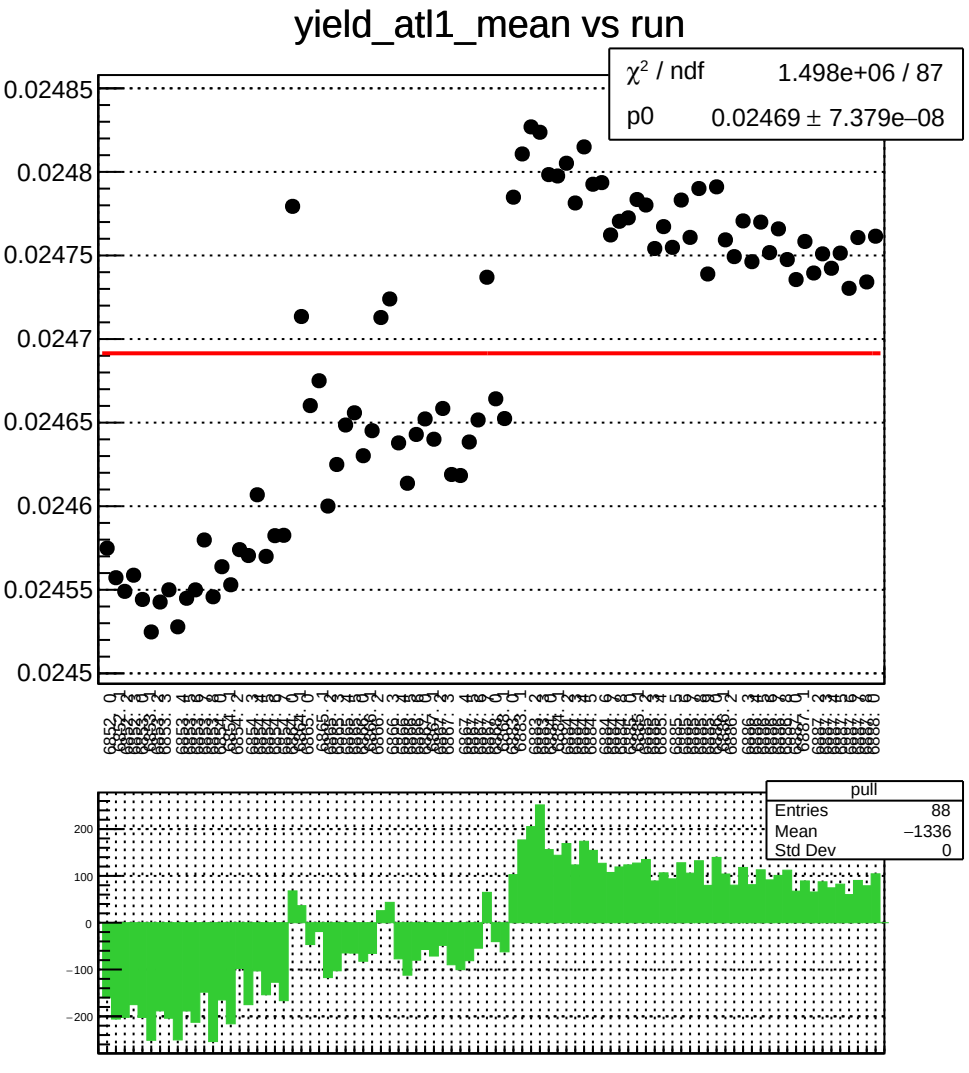

pull1D
Entries 88
Mean 4.352
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

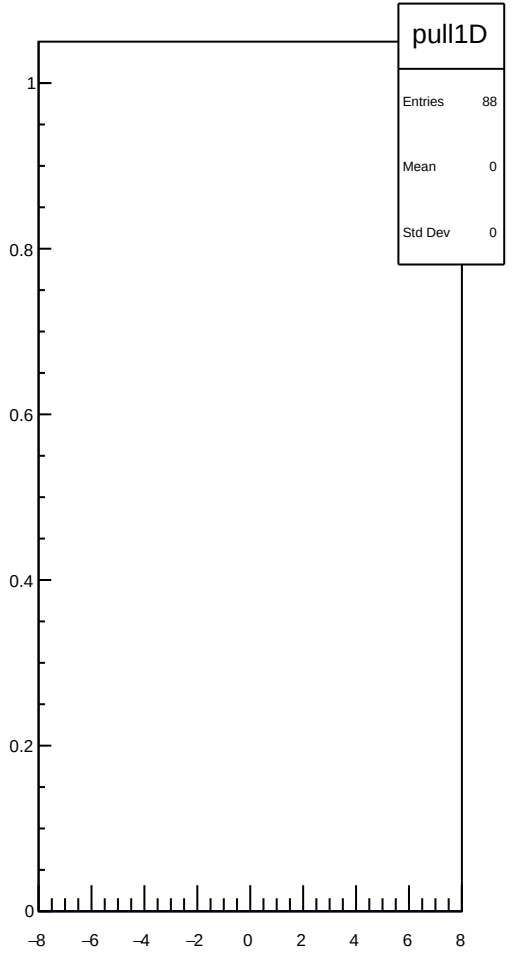

yield_dsl_rms vs run
χ² / ndf 2.359e+04 / 87
p0 0.04194 ± 3.248e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035


yield_dsr_mean vs run
χ² / ndf 1.002e+06 / 87
p0 −25.32 ± 5.955e−05
−25.2
−25.25
−25.3
−25.35
−25.4
−25.45
pull
Entries 88
Mean −198.2
Std Dev 0
200
100
0
−100
−200
−300

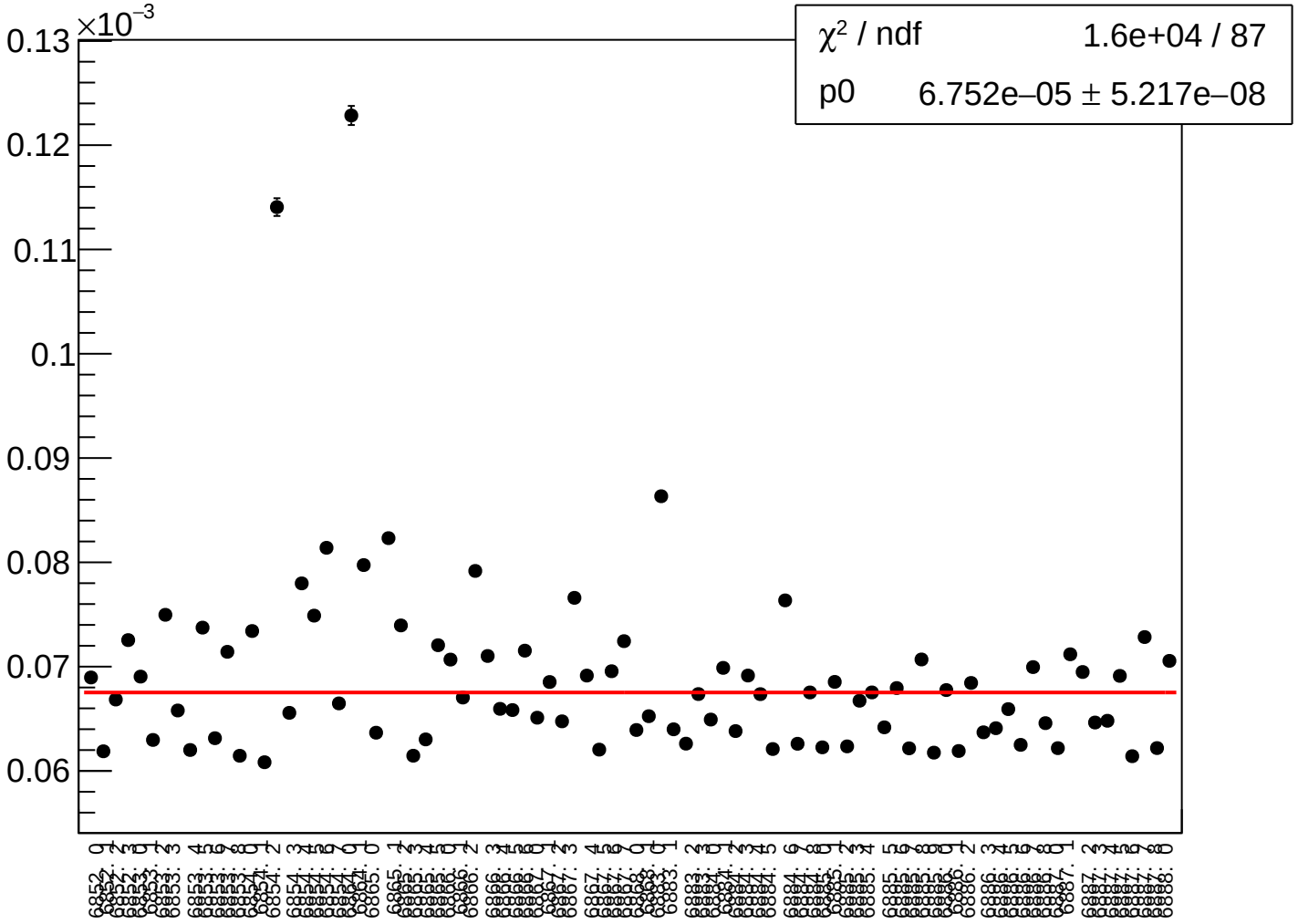

pull1D
Entries 88
Mean −0.1644
Std Dev 4.174
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

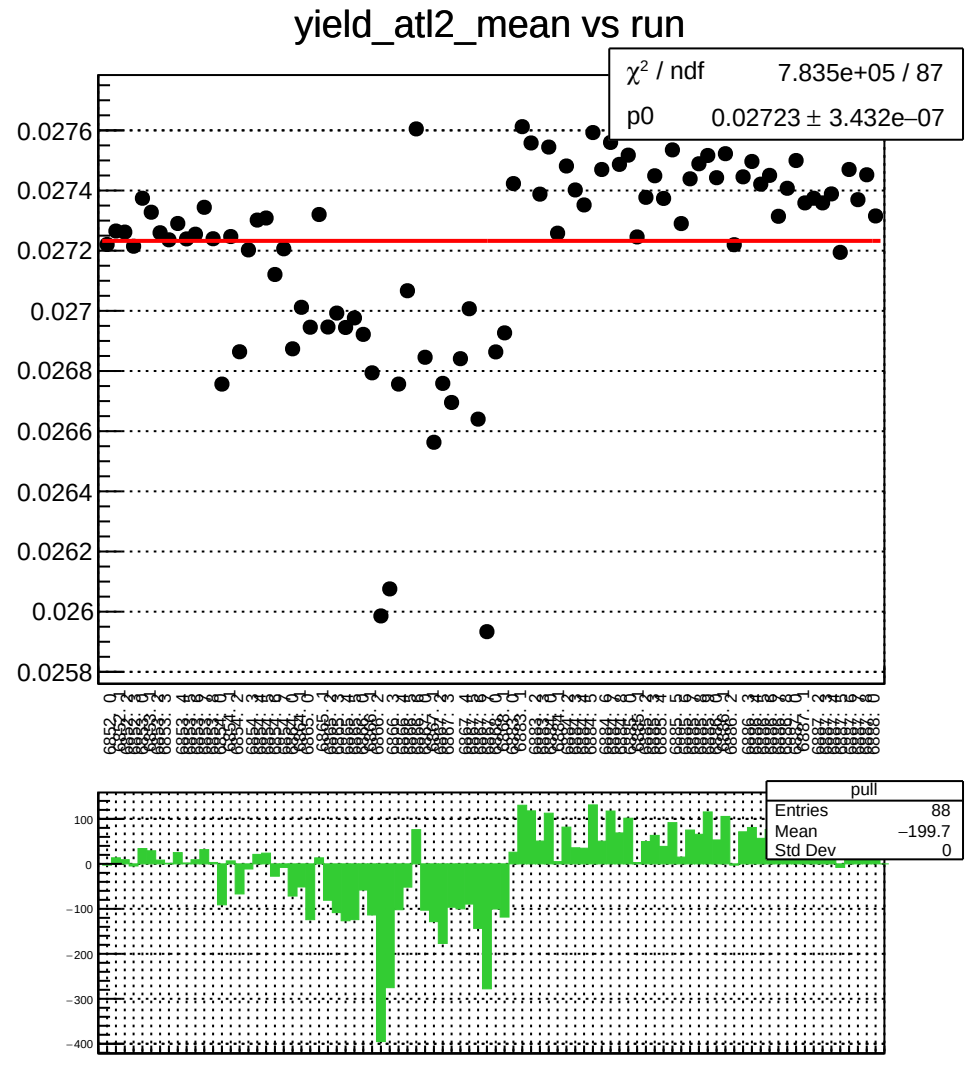

yield_dsr_rms vs run
χ² / ndf 6.001e+04 / 87
p0 0.05377 ± 4.211e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

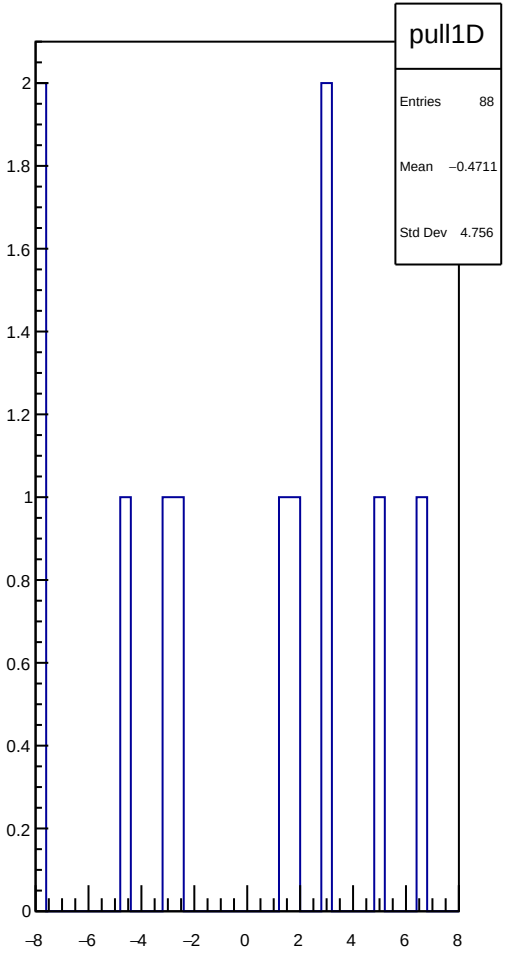

yield_atl1_mean vs run
χ² / ndf 1.498e+06 / 87
p0 0.02469 ± 7.379e−08
0.02485
0.0248
0.02475
0.0247
0.02465
0.0246
0.02455
0.0245
pull
Entries 88
Mean −1336
Std Dev 0
200
100
0
−100
−200

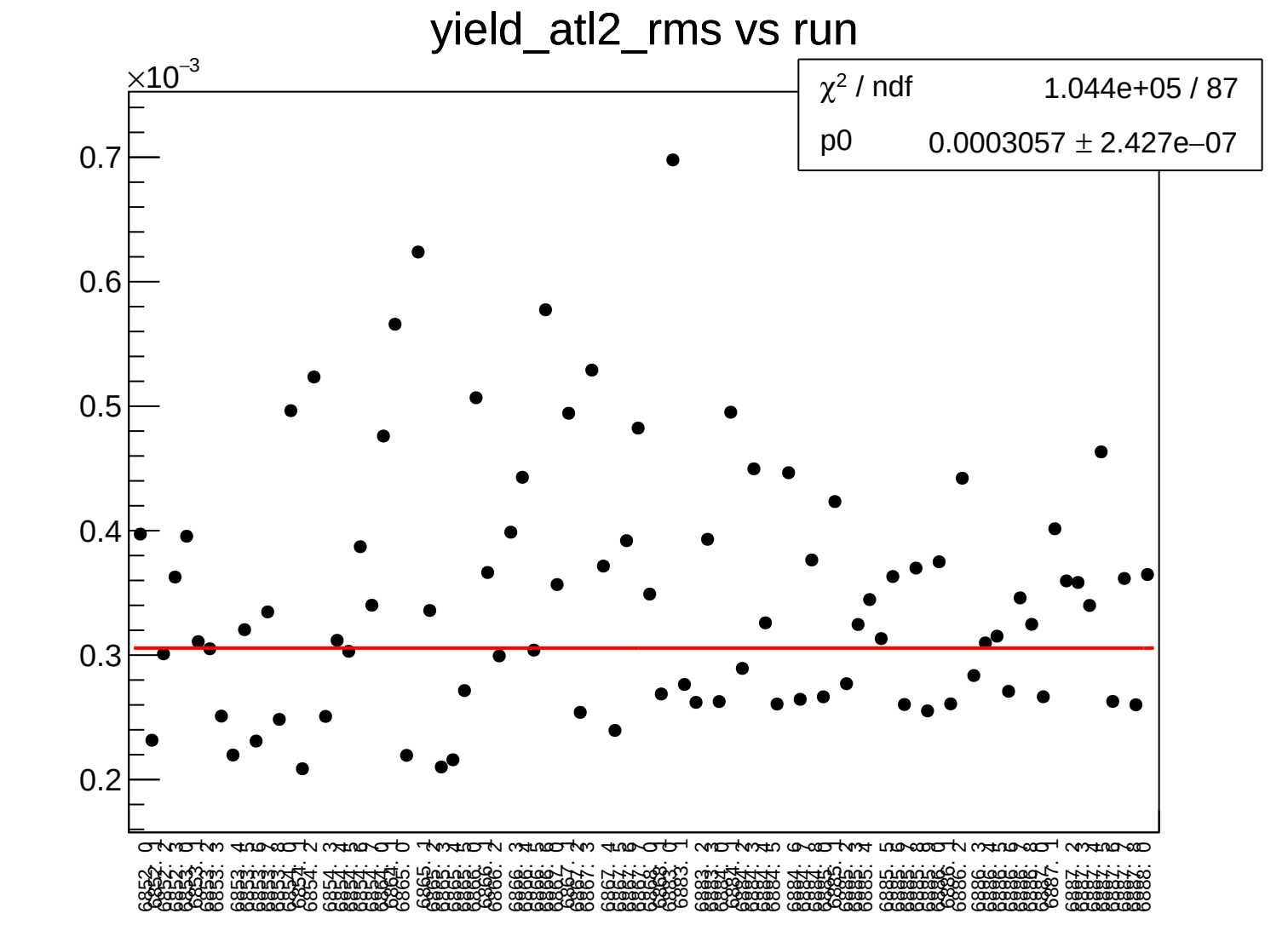

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

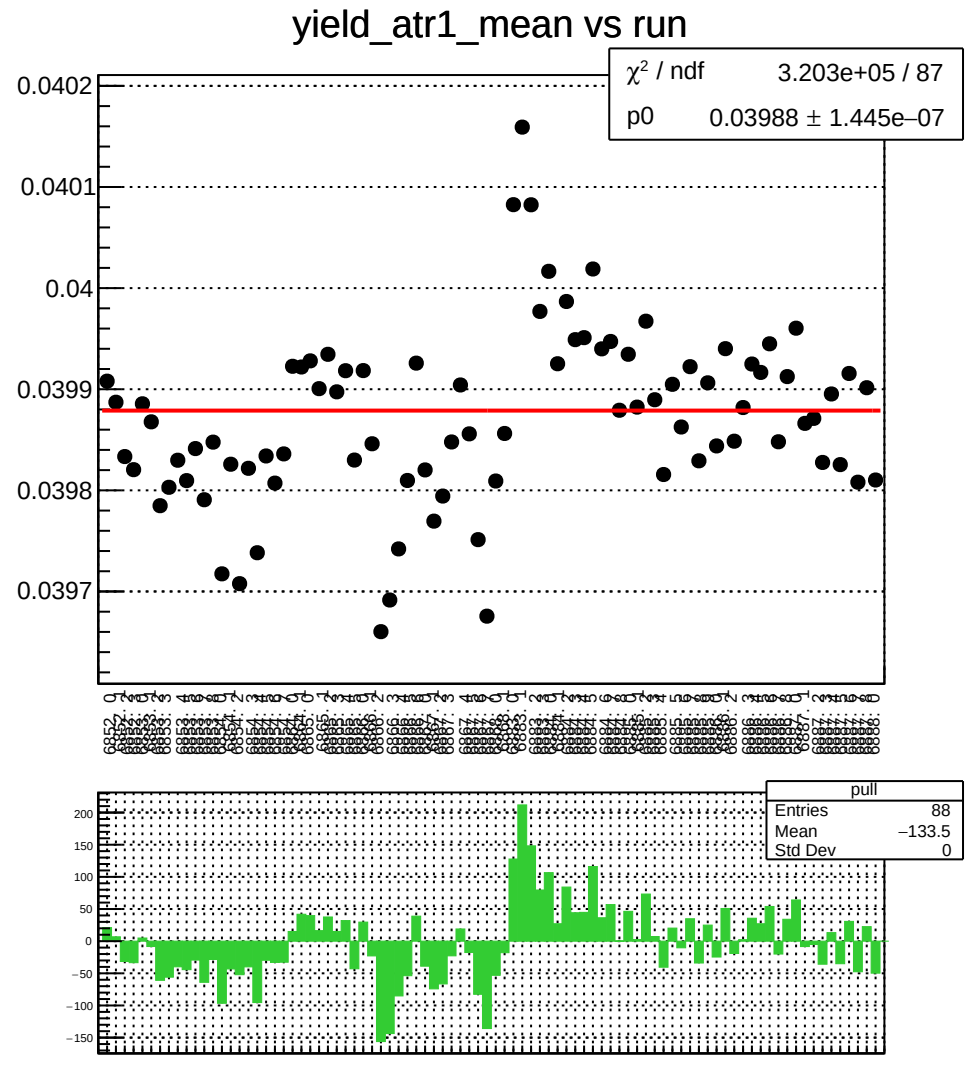
yield_atl1_rms vs run

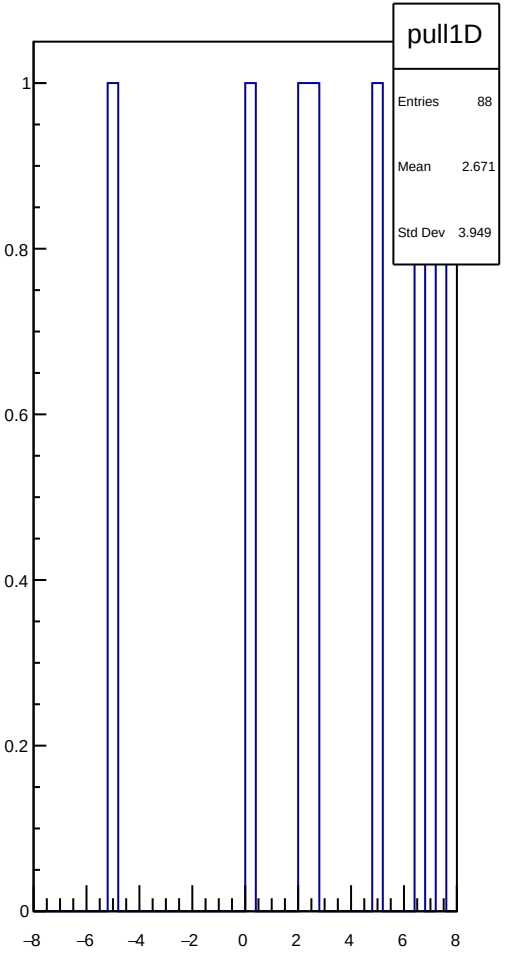


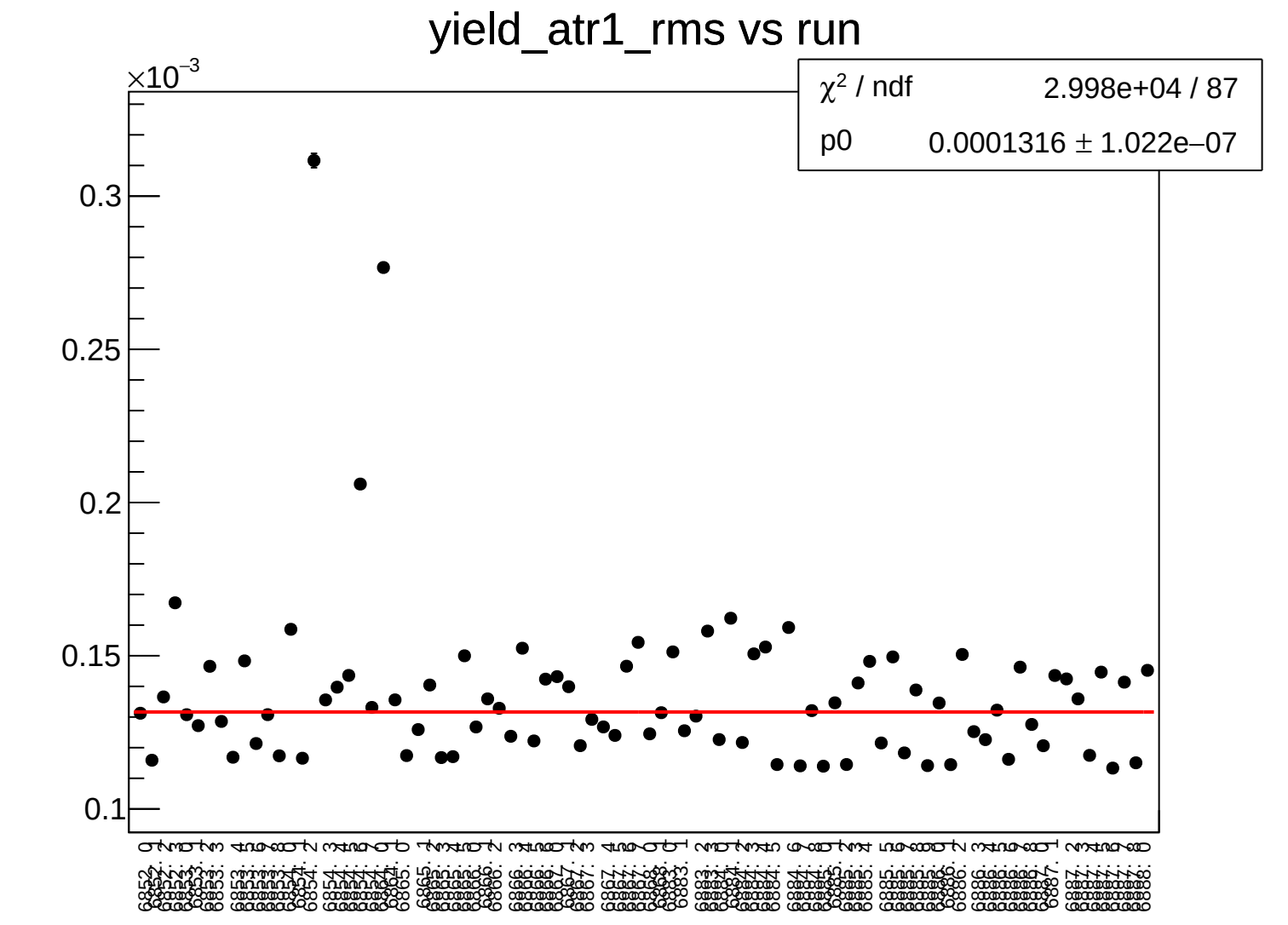

yield_atl2_mean vs run
χ² / ndf 7.835e+05 / 87
p0 0.02723 ± 3.432e−07
0.0276
0.0274
0.0272
0.027
0.0268
0.0266
0.0264
0.0262
0.026
0.0258
pull
Entries 88
Mean −199.7
Std Dev 0
100
0
−100
−200
−300
−400

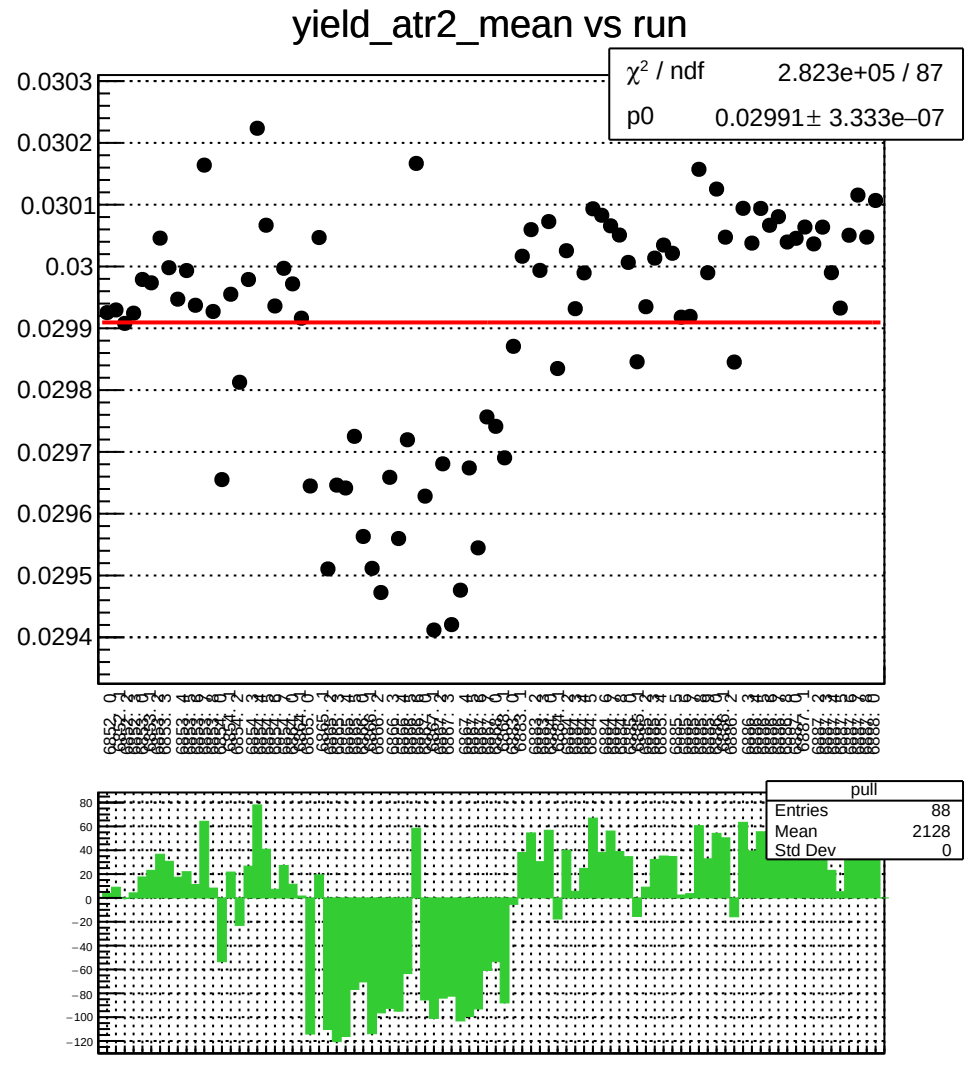

pull1D
Entries 88
Mean −0.4711
Std Dev 4.756
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

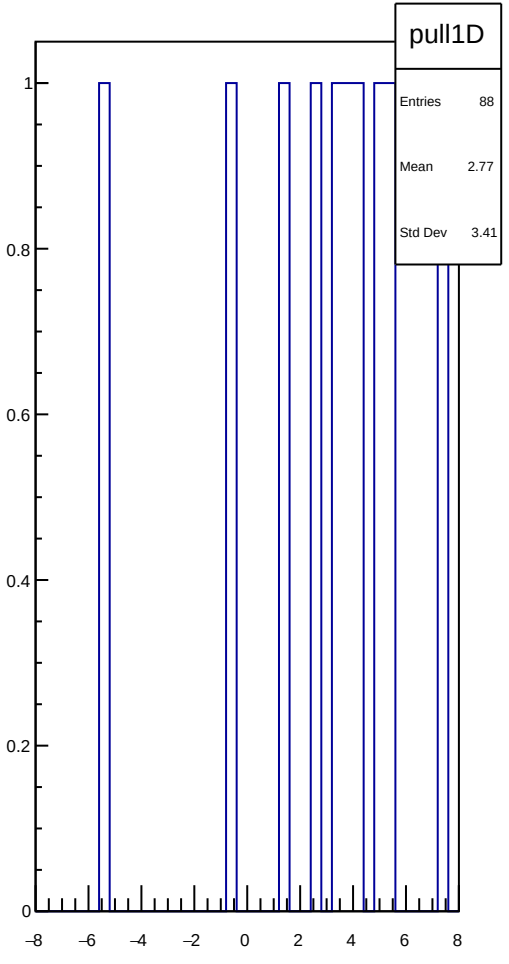

yield_atl2_rms vs run
×10⁻³
χ² / ndf 1.044e+05 / 87
p0 0.0003057 ± 2.427e−07
0.7
0.6
0.5
0.4
0.3
0.2

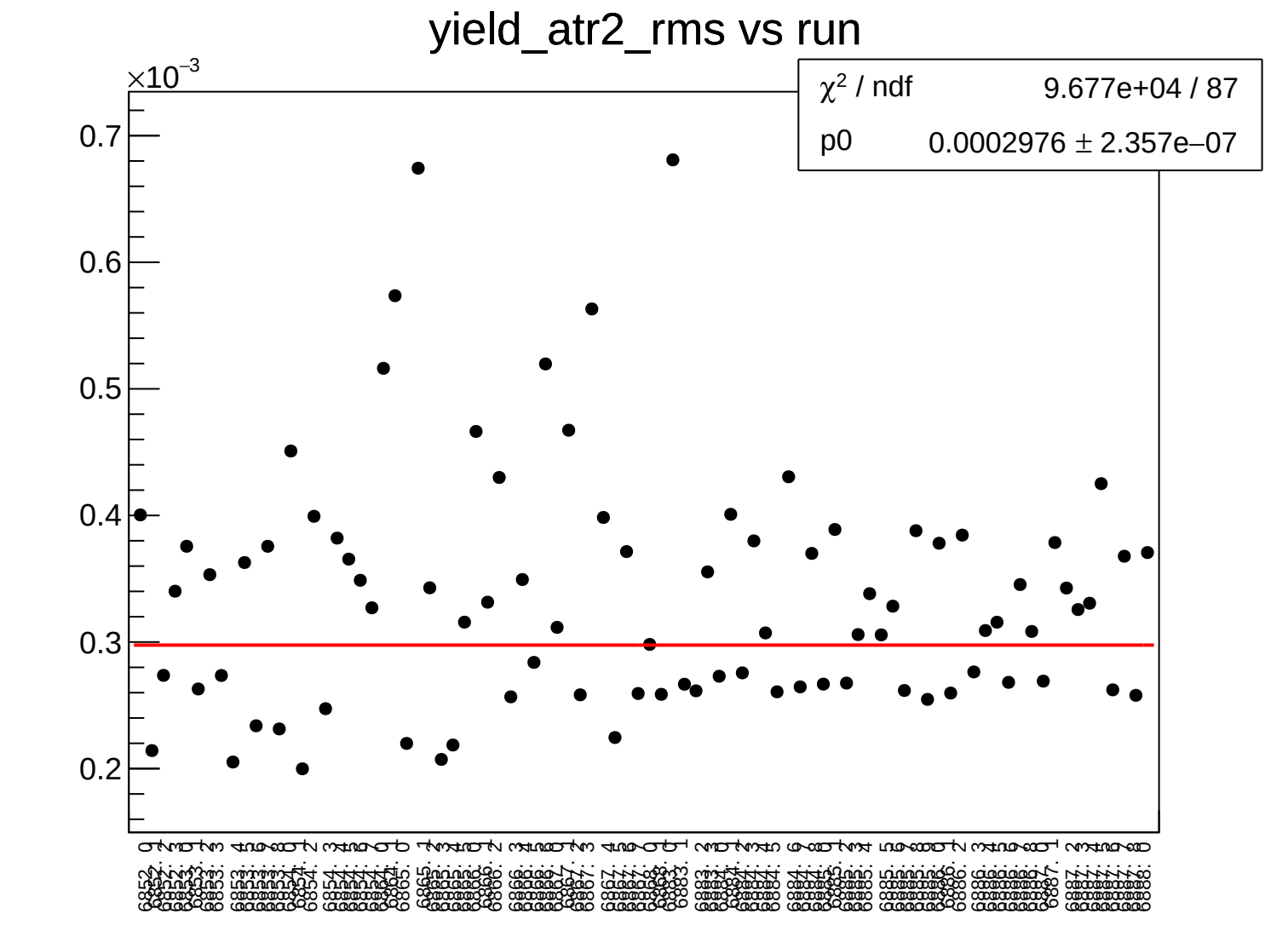

yield_atr1_mean vs run
χ² / ndf 3.203e+05 / 87
p0 0.03988 ± 1.445e−07
0.0402
0.0401
0.04
0.0399
0.0398
0.0397
pull
Entries 88
Mean −133.5
Std Dev 0
200
150
100
50
0
−50
−100
−150

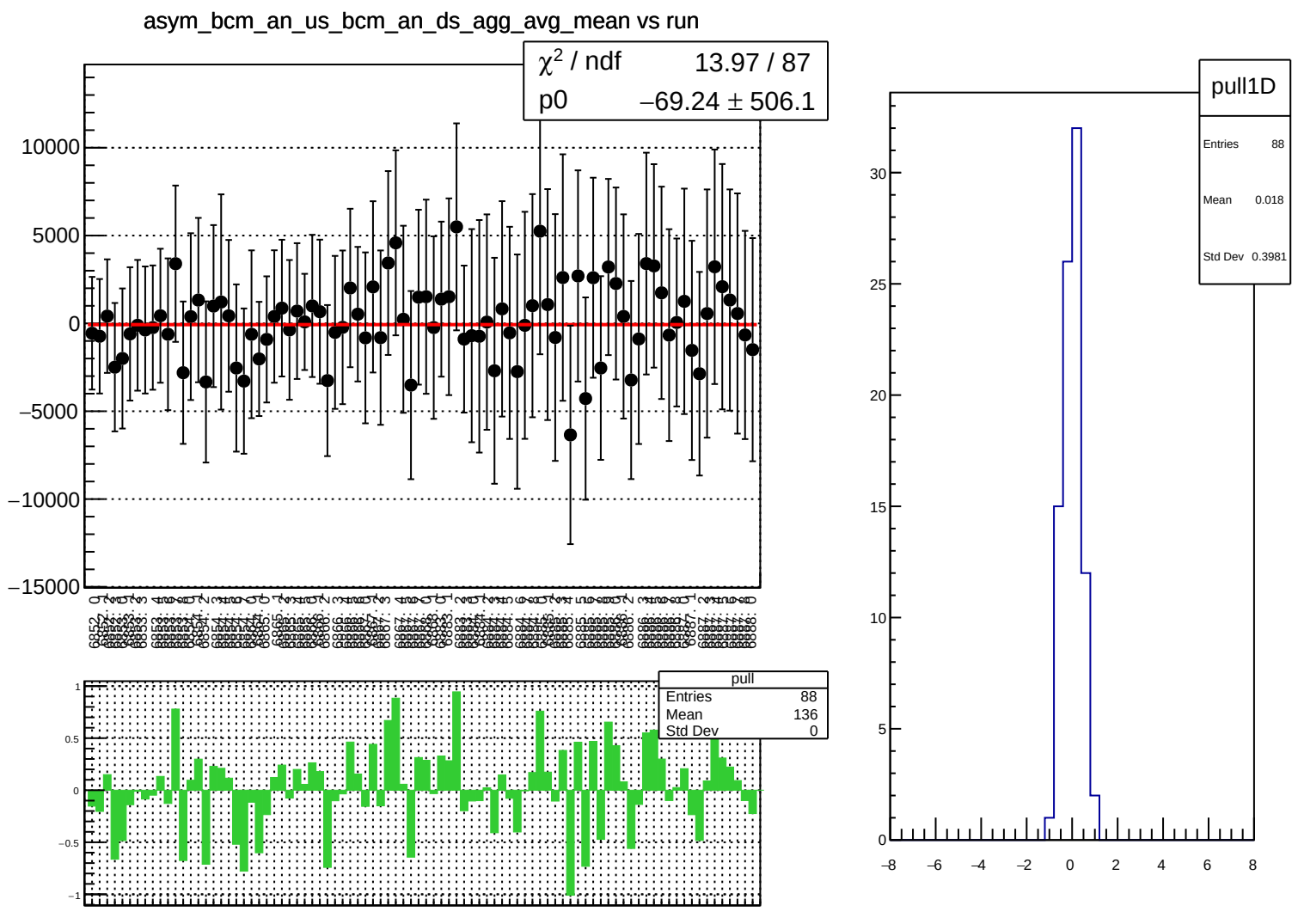

pull1D
Entries 88
Mean 2.671
Std Dev 3.949
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

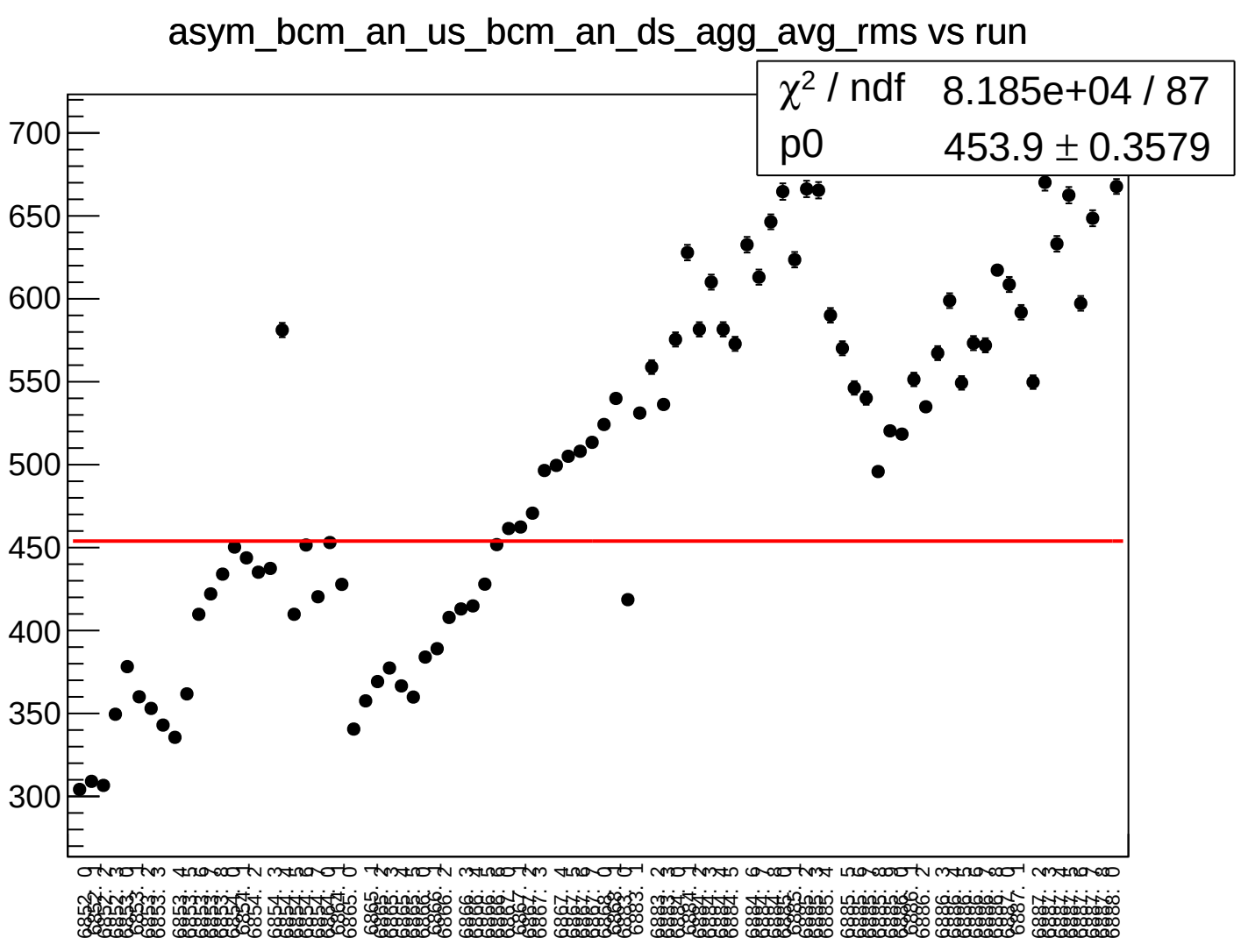

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.998e+04 / 87
p0 0.0001316 ± 1.022e−07
0.3
0.25
0.2
0.15
0.1

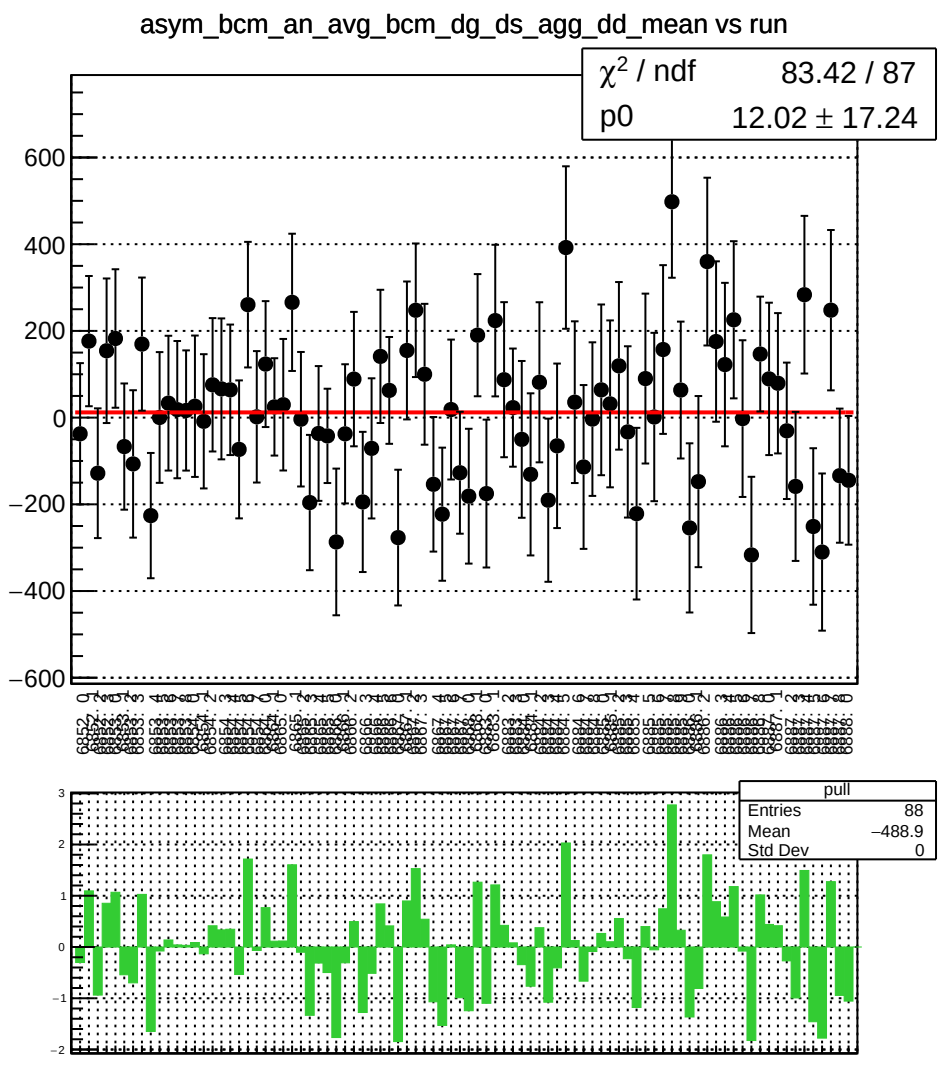

yield_atr2_mean vs run
χ² / ndf 2.823e+05 / 87
p0 0.02991± 3.333e−07
0.0303
0.0302
0.0301
0.03
0.0299
0.0298
0.0297
0.0296
0.0295
0.0294
pull
Entries 88
Mean 2128
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

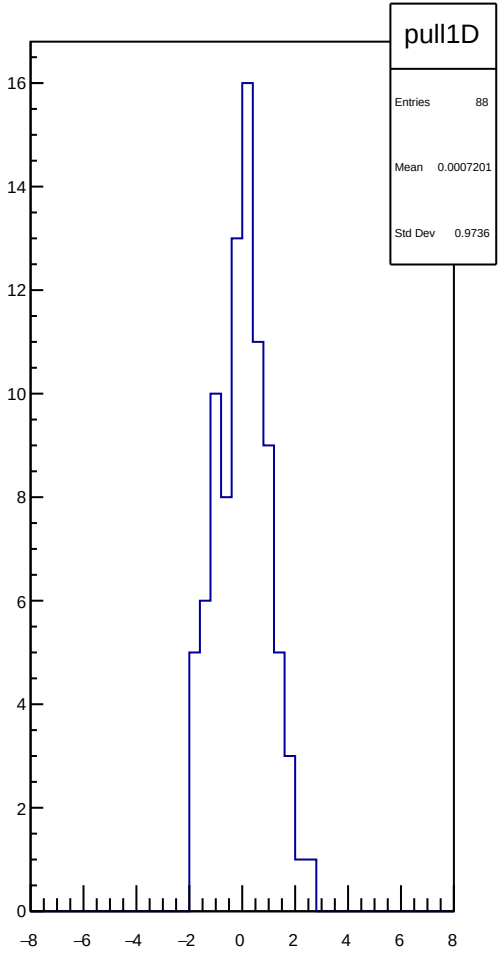

pull1D
Entries 88
Mean 2.77
Std Dev 3.41
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

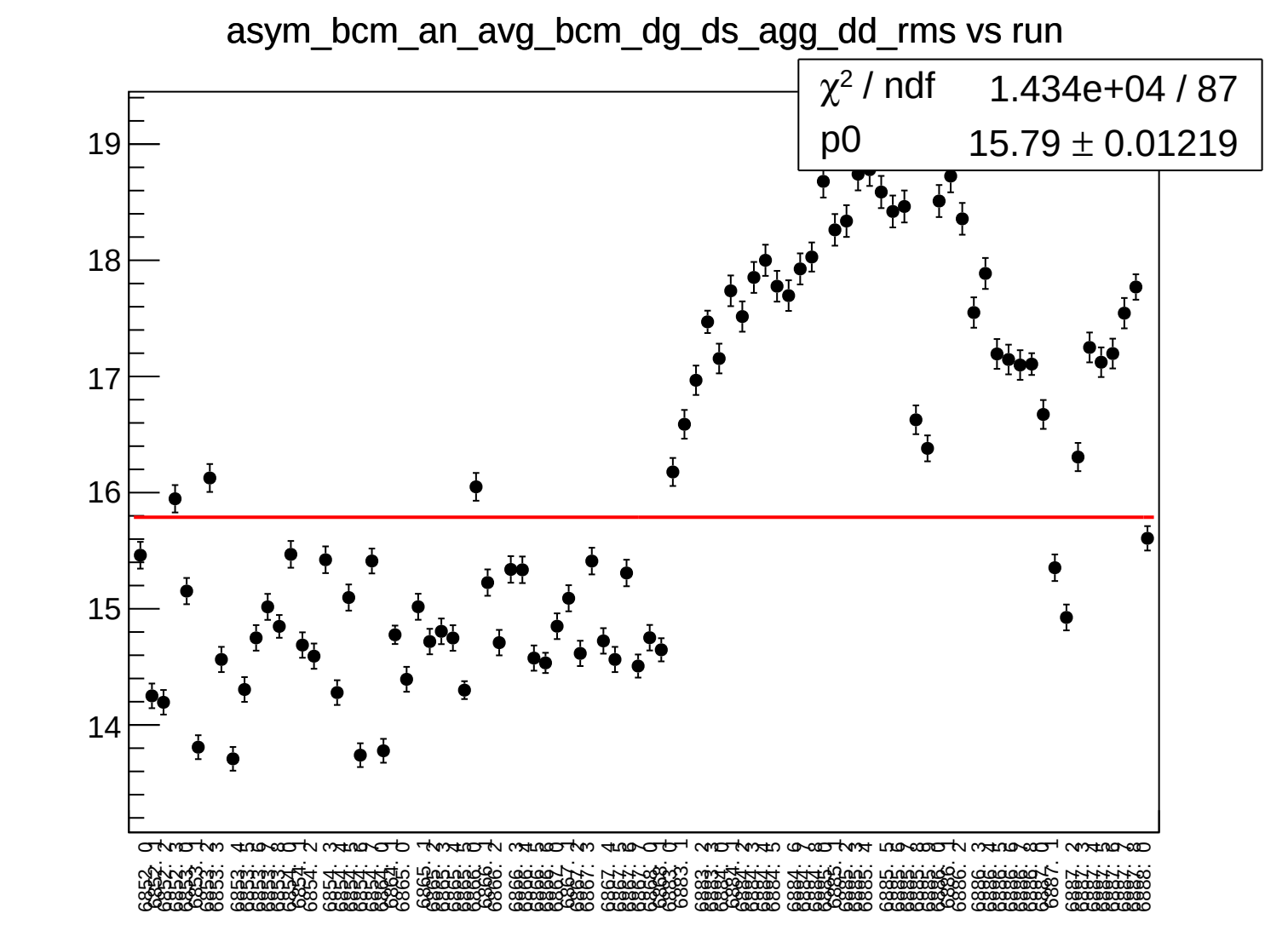

yield_atr2_rms vs run
×10⁻³
χ² / ndf 9.677e+04 / 87
p0 0.0002976 ± 2.357e−07
0.7
0.6
0.5
0.4
0.3
0.2

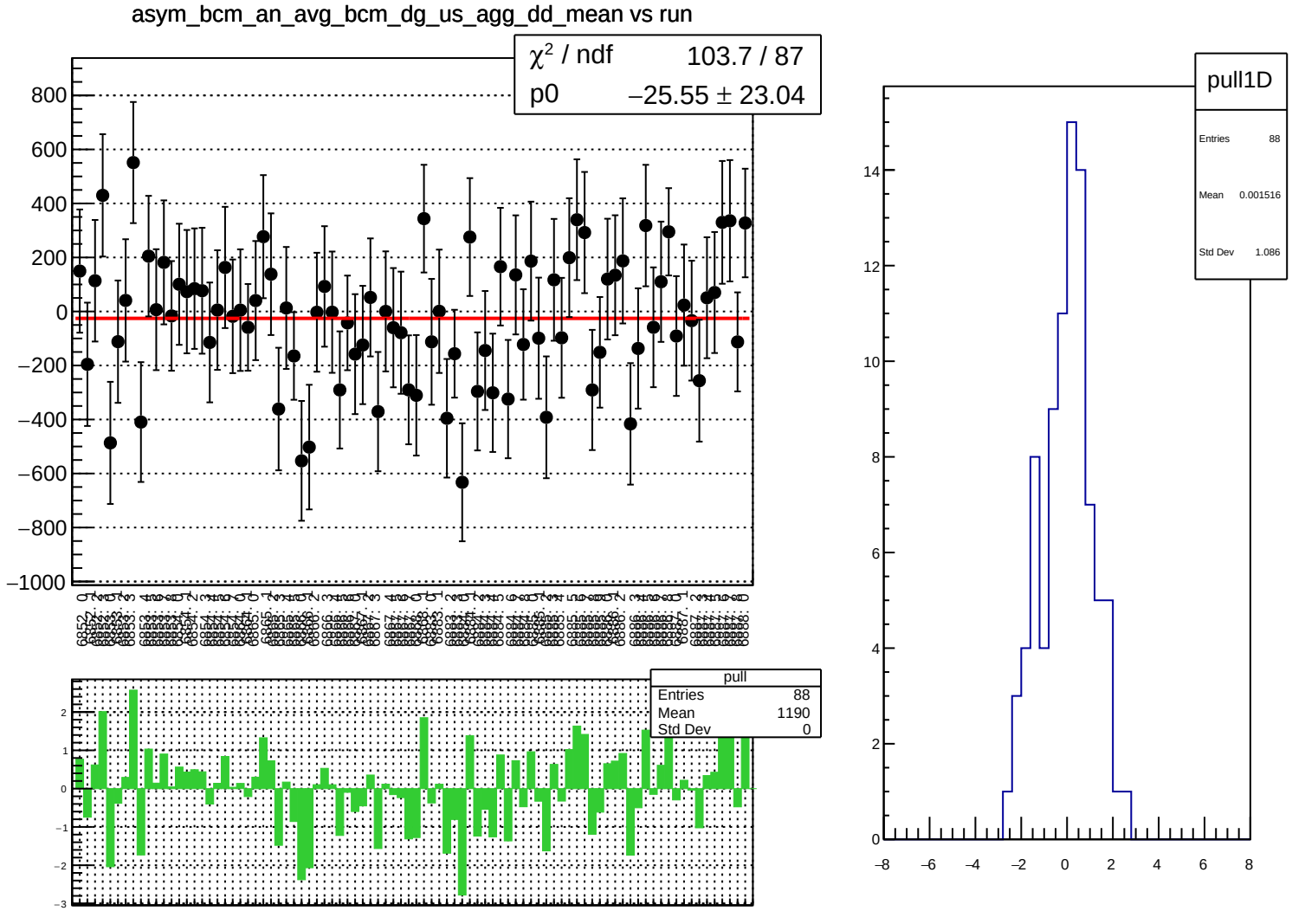

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.97 / 87
p0 −69.24 ± 506.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 136
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.018
Std Dev 0.3981
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

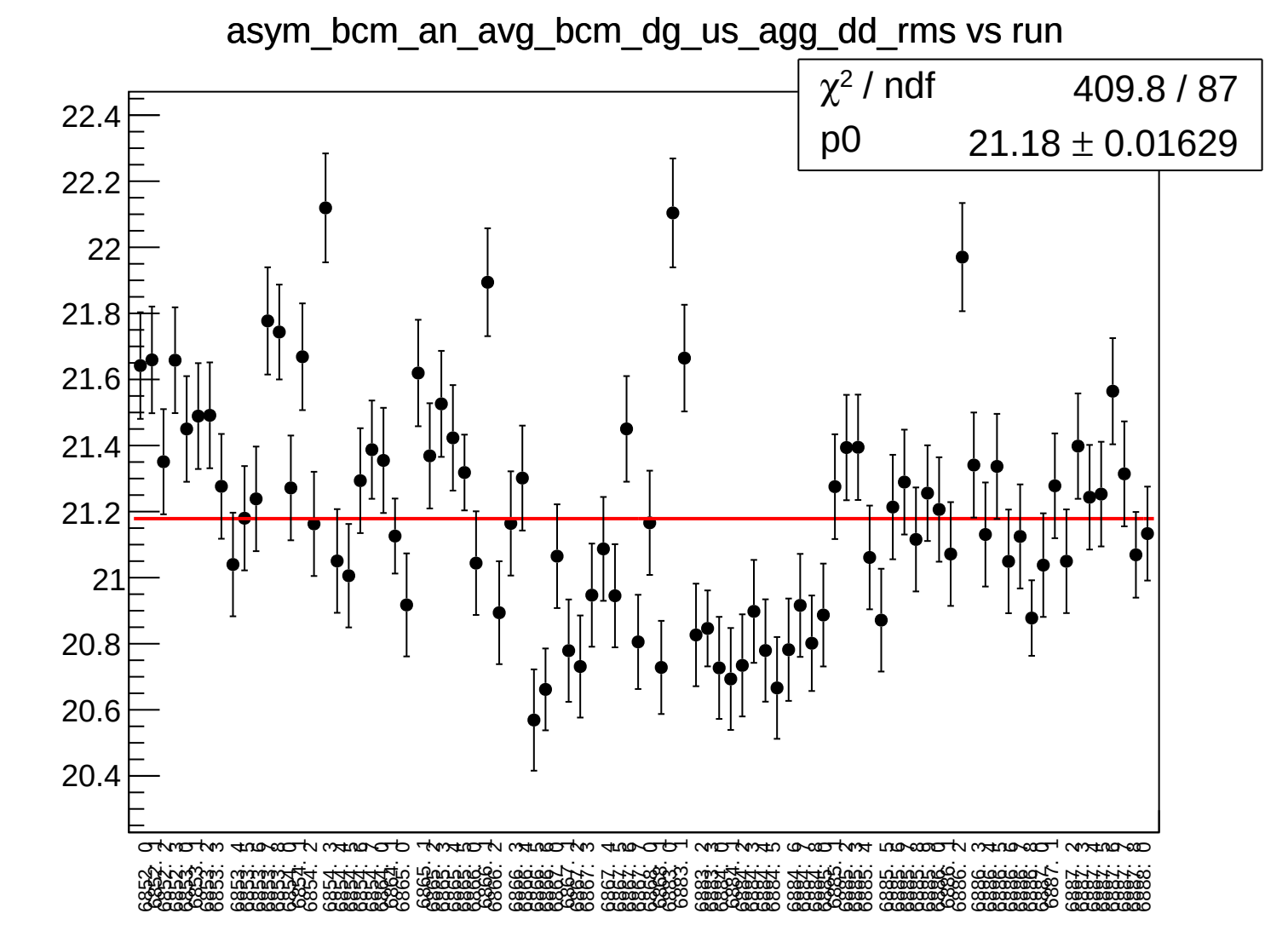

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8.185e+04 / 87
p0 453.9 ± 0.3579
700
650
600
550
500
450
400
350
300

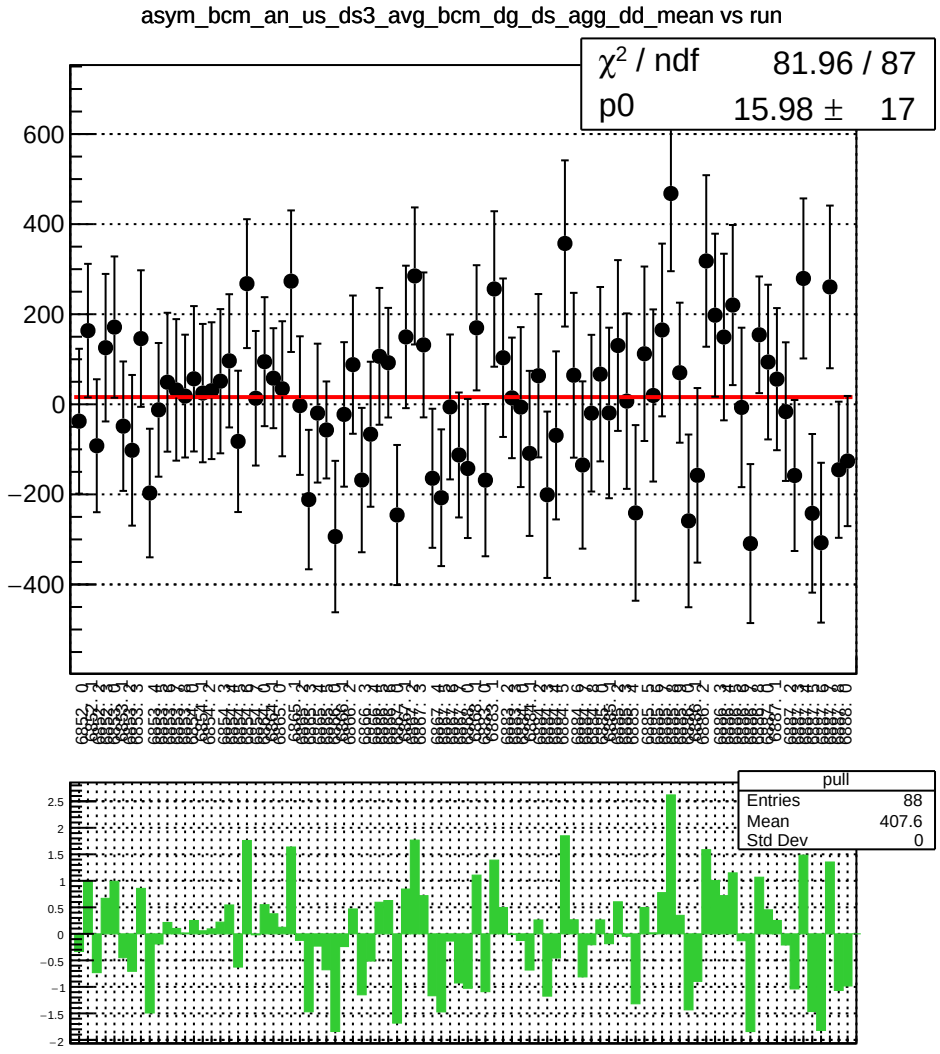

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 83.42 / 87
p0 12.02 ± 17.24
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean −488.9
Std Dev 0
3
2
1
0
−1
−2

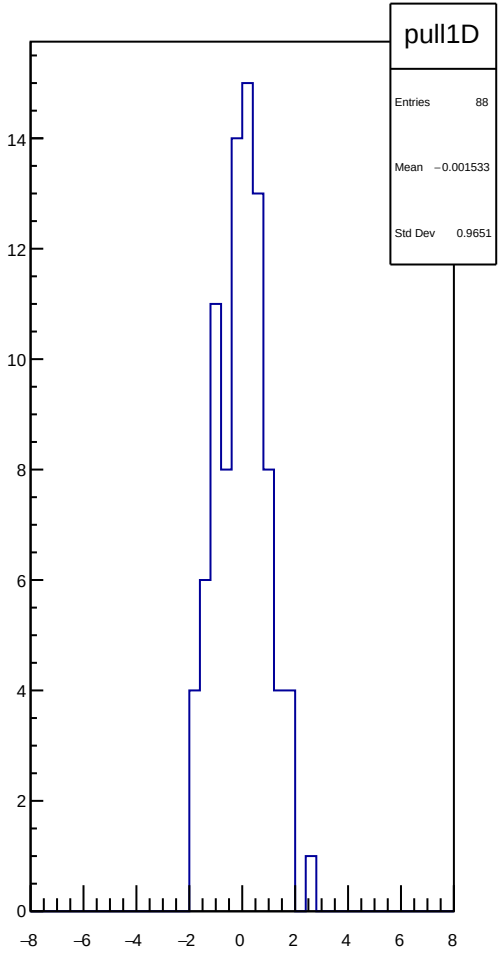

pull1D
Entries 88
Mean 0.0007201
Std Dev 0.9736
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

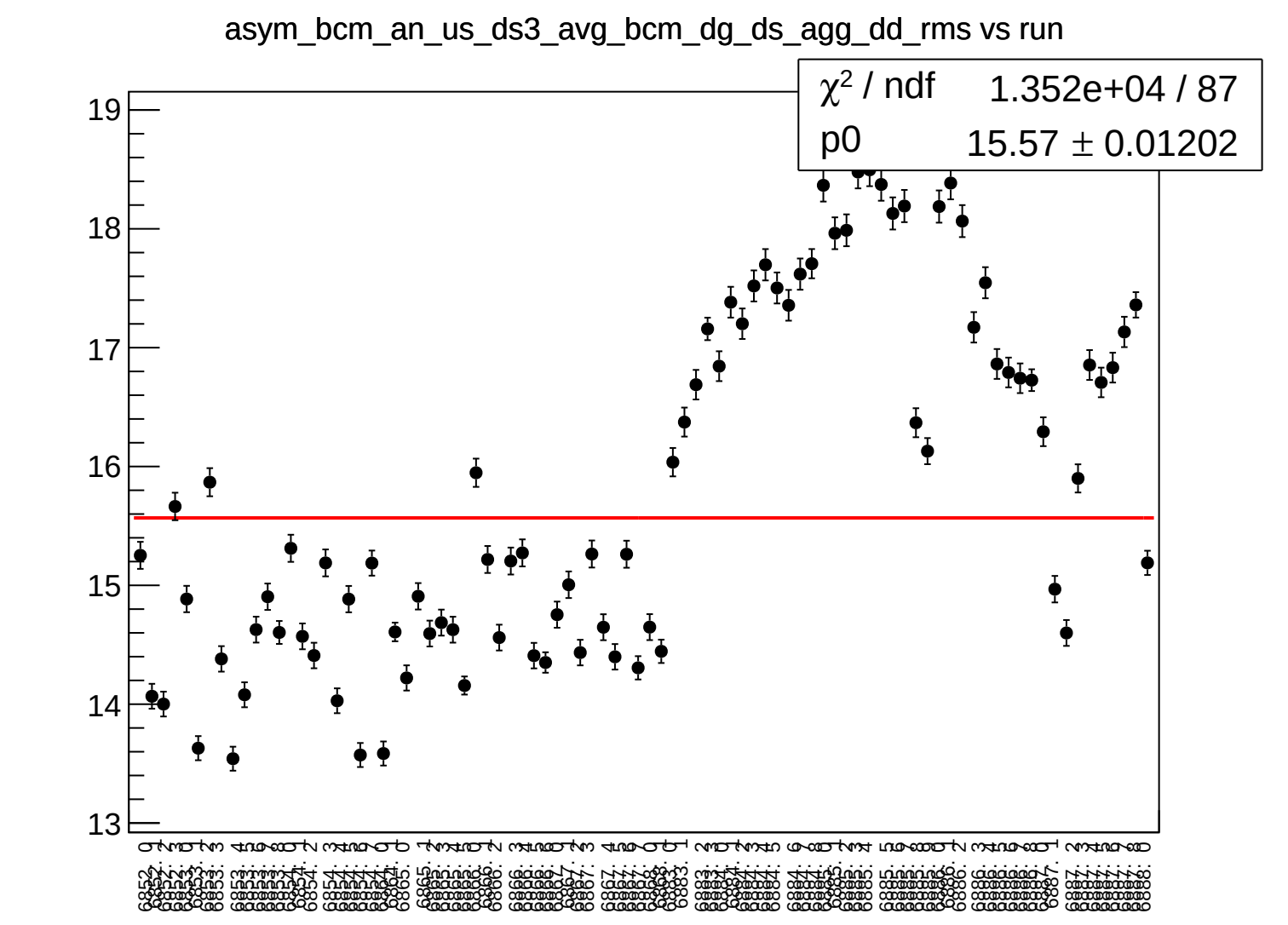

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1.434e+04 / 87
p0 15.79 ± 0.01219
19
18
17
16
15
14

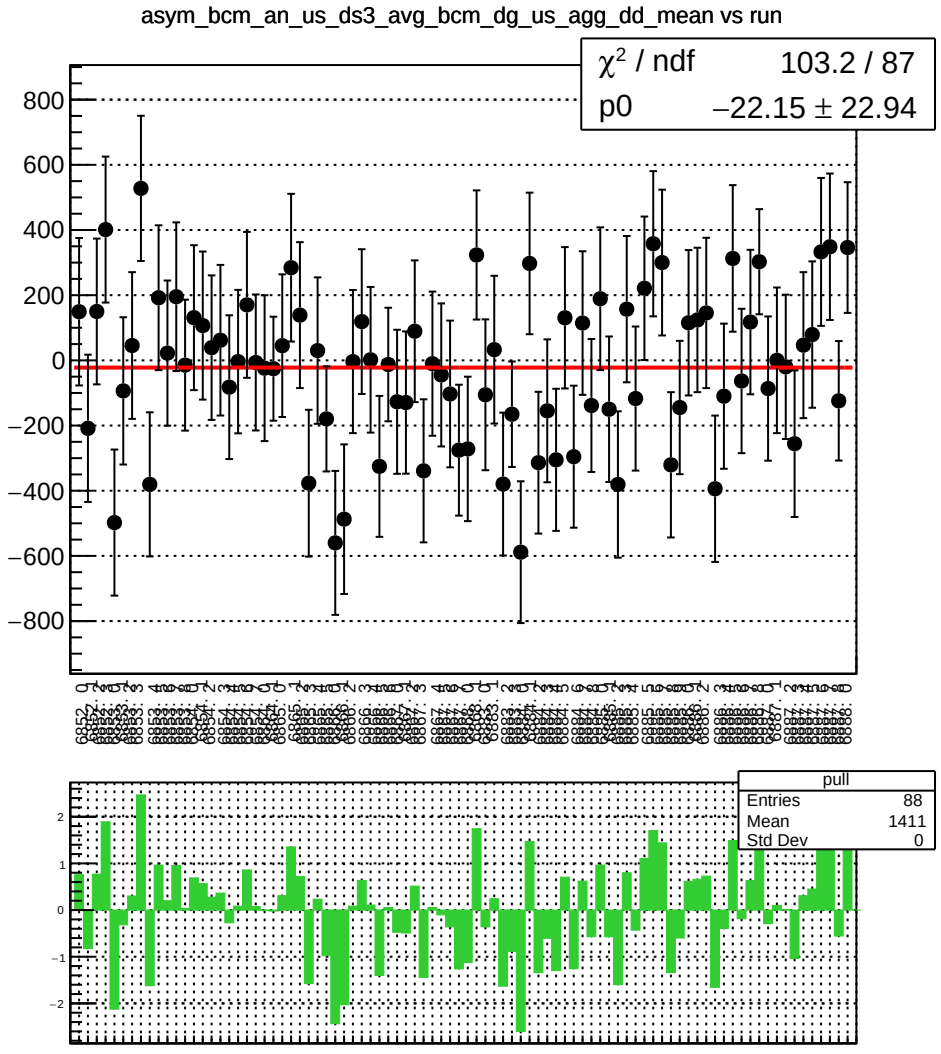

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 103.7 / 87
p0 −25.55 ± 23.04
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 88
Mean 1190
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.001516
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

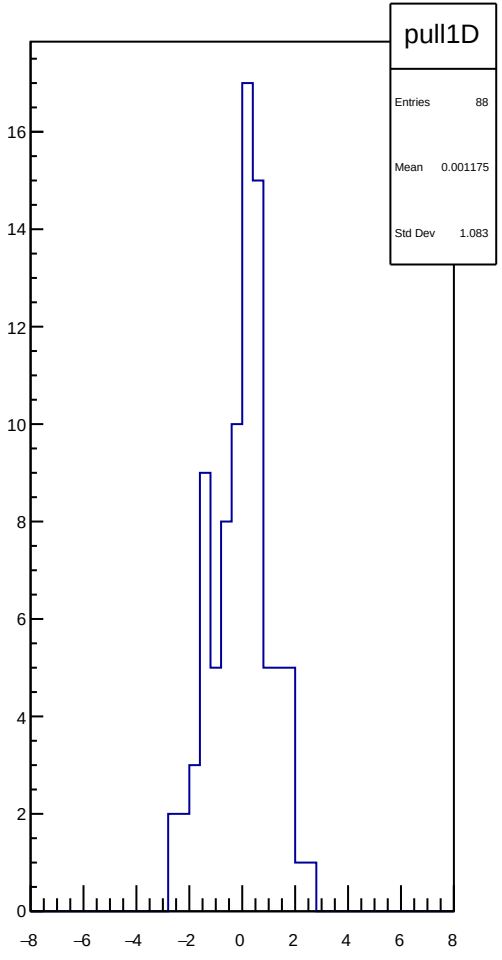

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 409.8 / 87
p0 21.18 ± 0.01629
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4

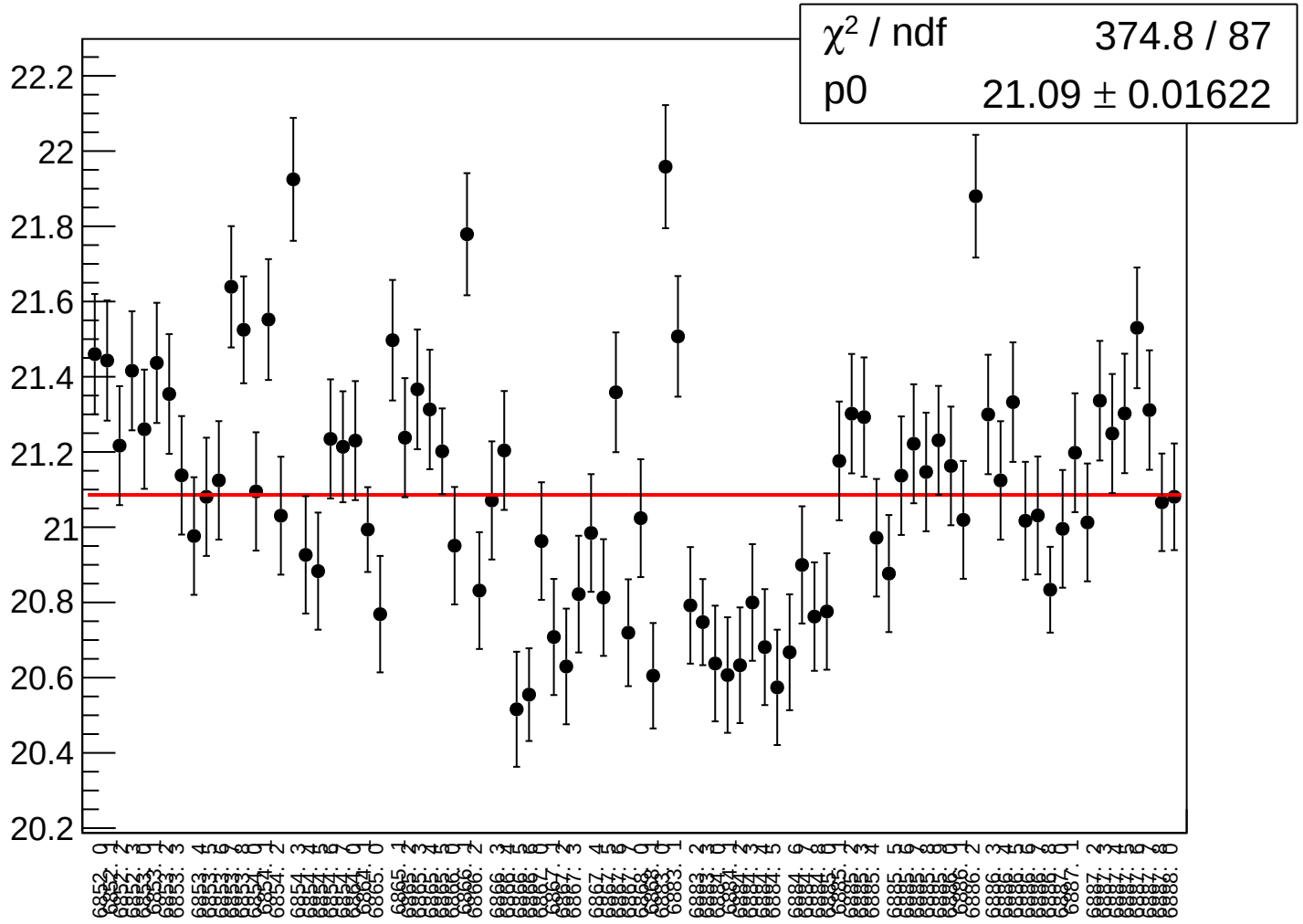

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 81.96 / 87
p0 15.98 ± 17
600
400
200
0
−200
−400
pull
Entries 88
Mean 407.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

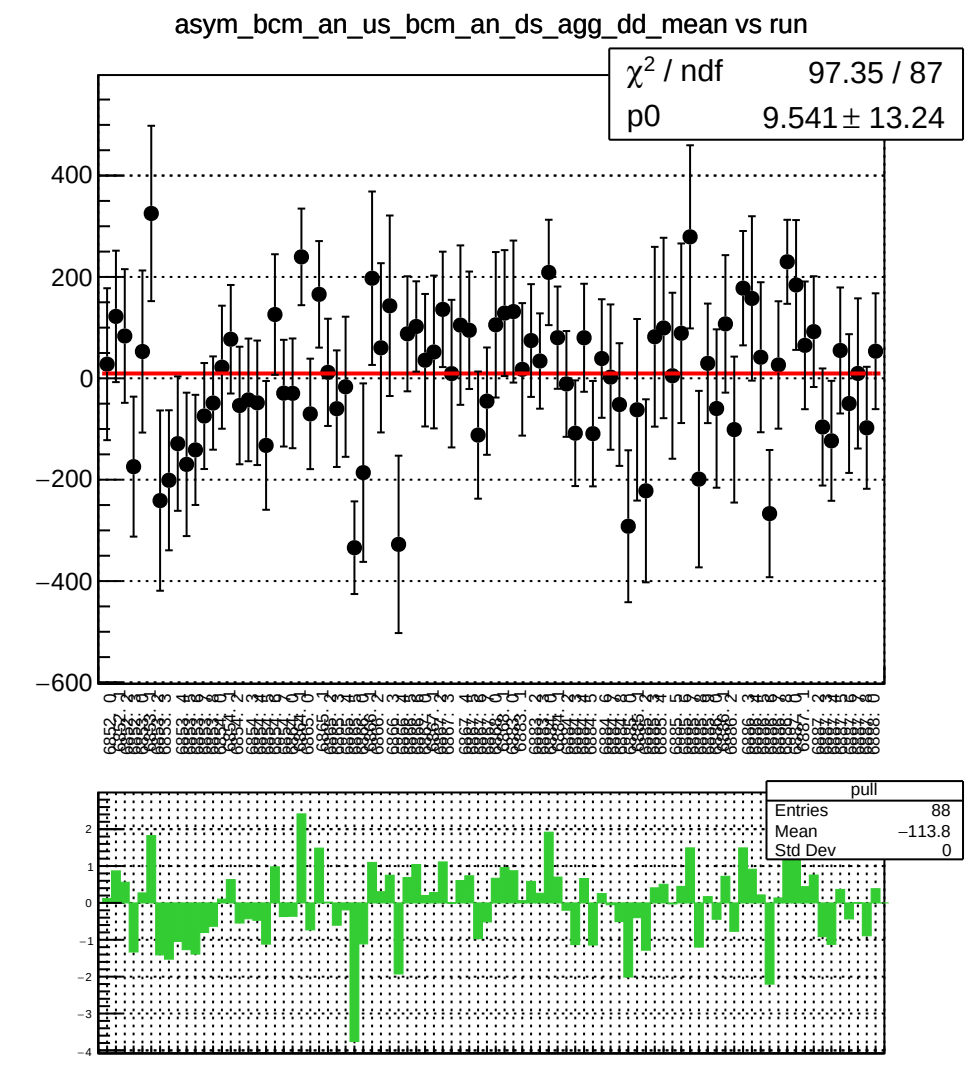

pull1D
Entries 88
Mean −0.001533
Std Dev 0.9651
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

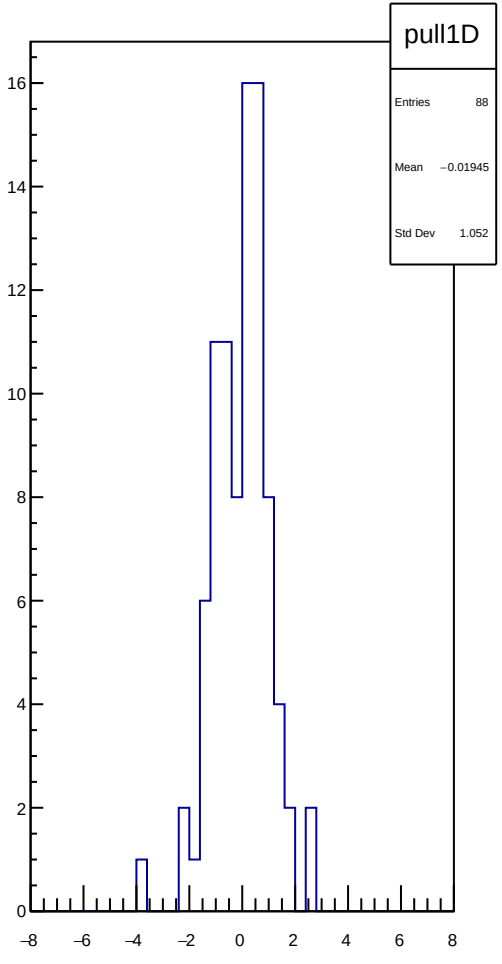

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1.352e+04 / 87
p0 15.57 ± 0.01202
19
18
17
16
15
14
13

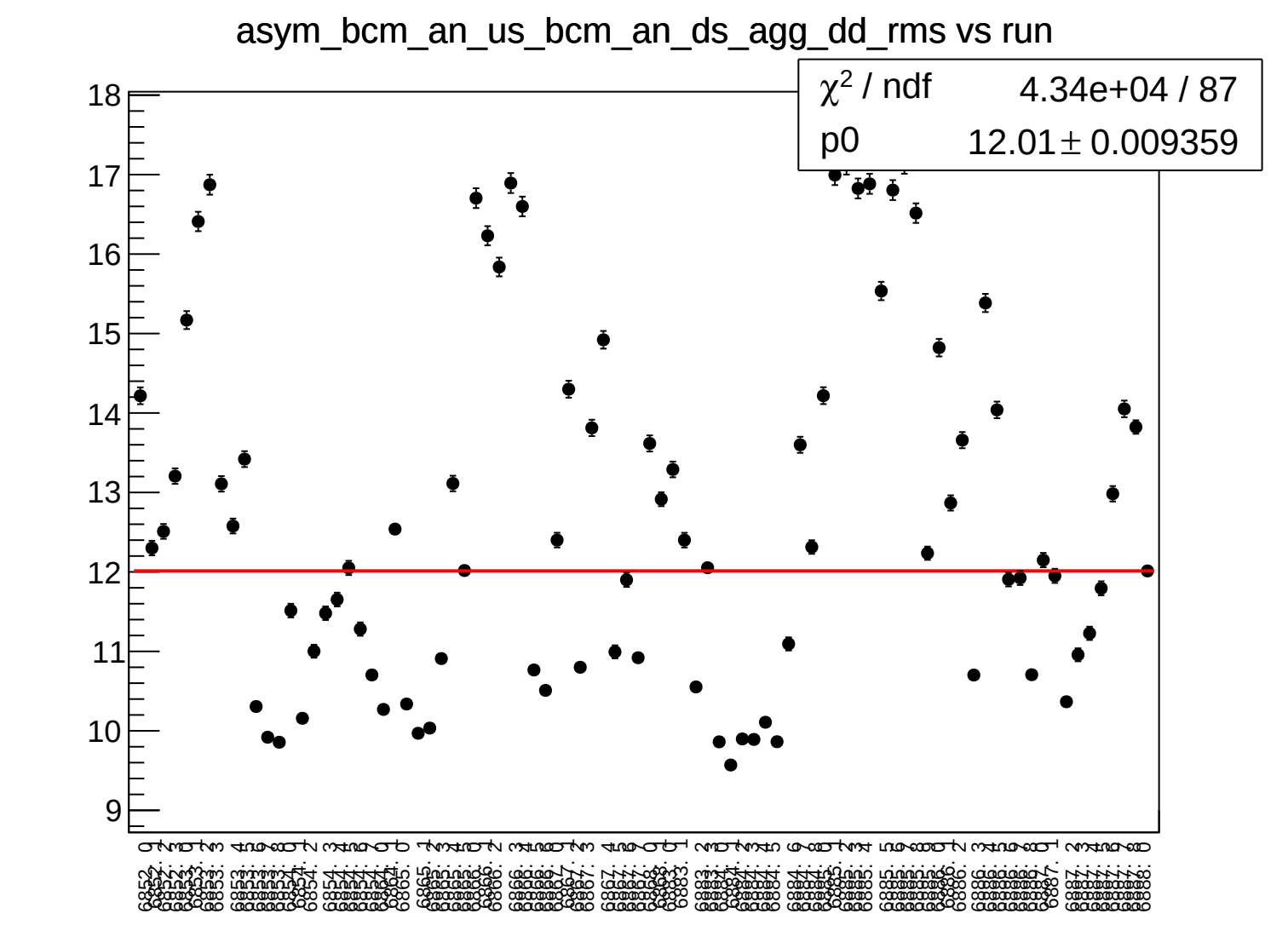

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 103.2 / 87
p0 −22.15 ± 22.94
pull
Entries 88
Mean 1411
Std Dev 0

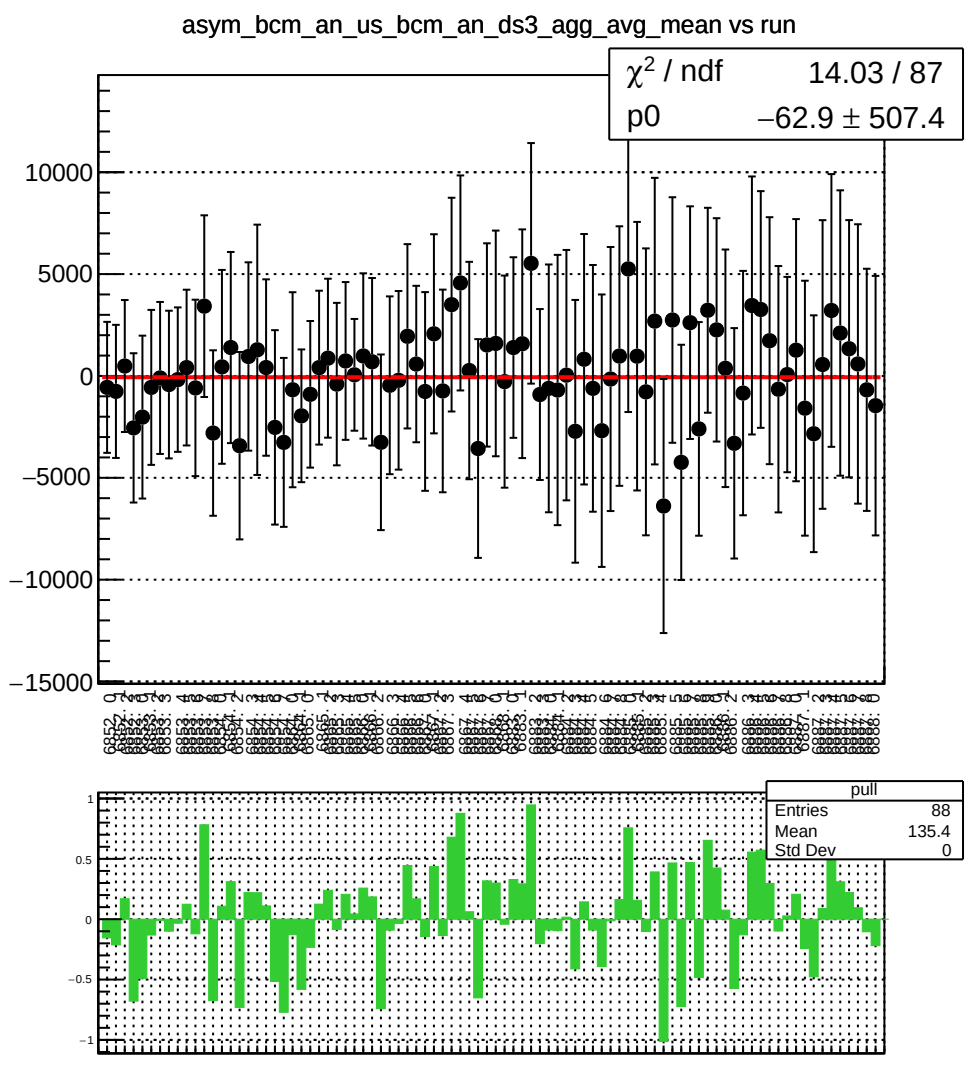

pull1D
Entries 88
Mean 0.001175
Std Dev 1.083

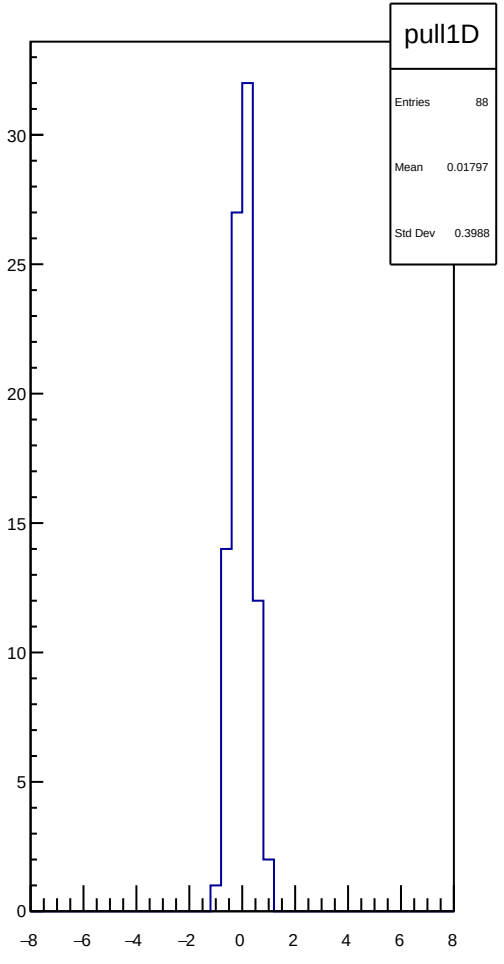

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 374.8 / 87
p0 21.09 ± 0.01622
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2

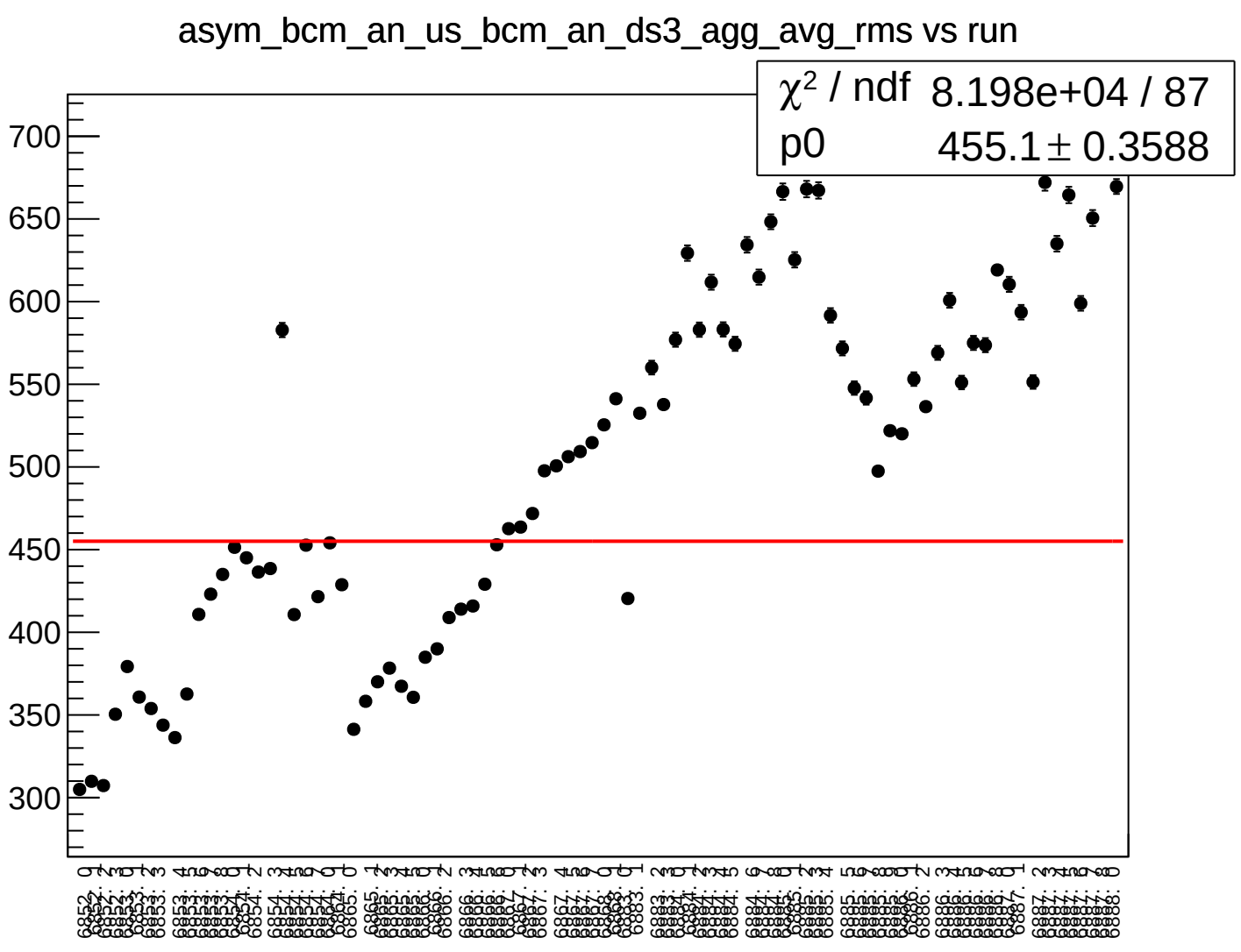

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 97.35 / 87
p0 9.541 ± 13.24
400
200
0
−200
−400
−600
pull
Entries 88
Mean −113.8
Std Dev 0
2
1
0
−1
−2
−3
−4

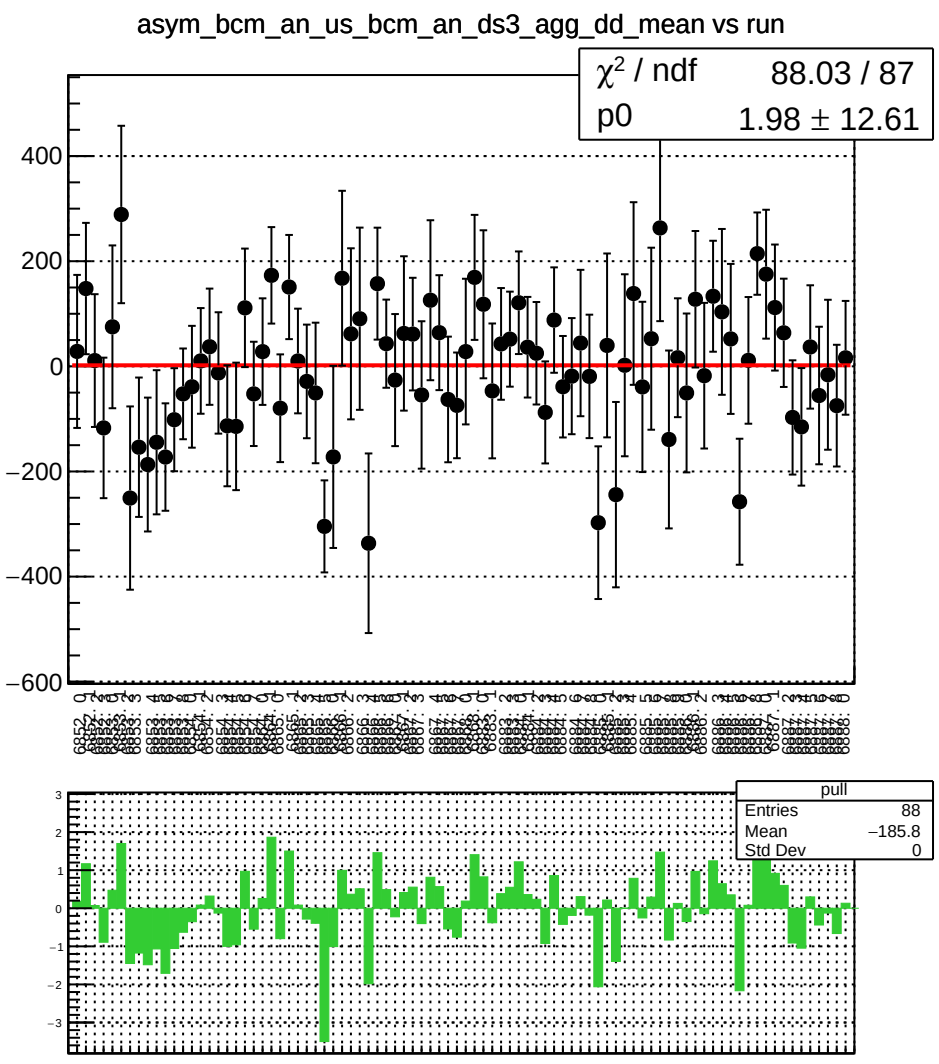

pull1D
Entries 88
Mean −0.01945
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

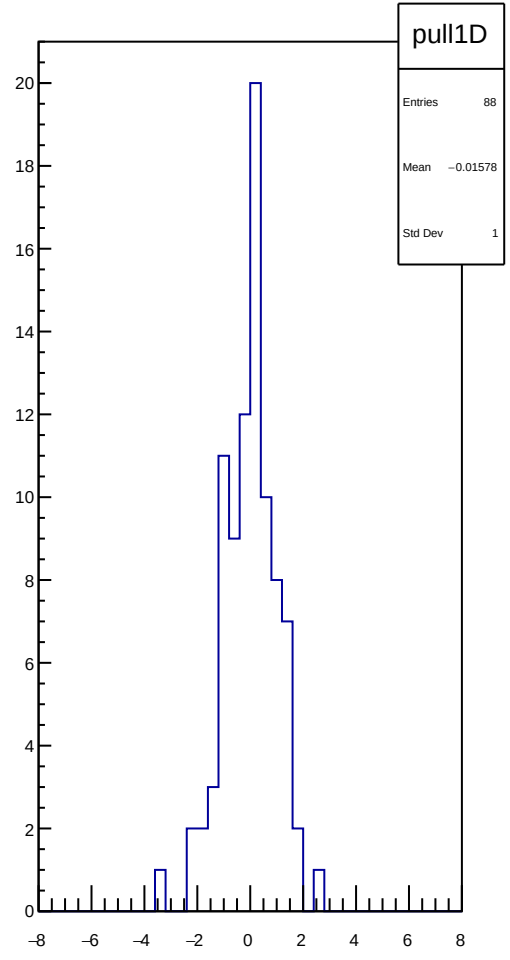

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4.34e+04 / 87
p0 12.01 ± 0.009359
18
17
16
15
14
13
12
11
10
9

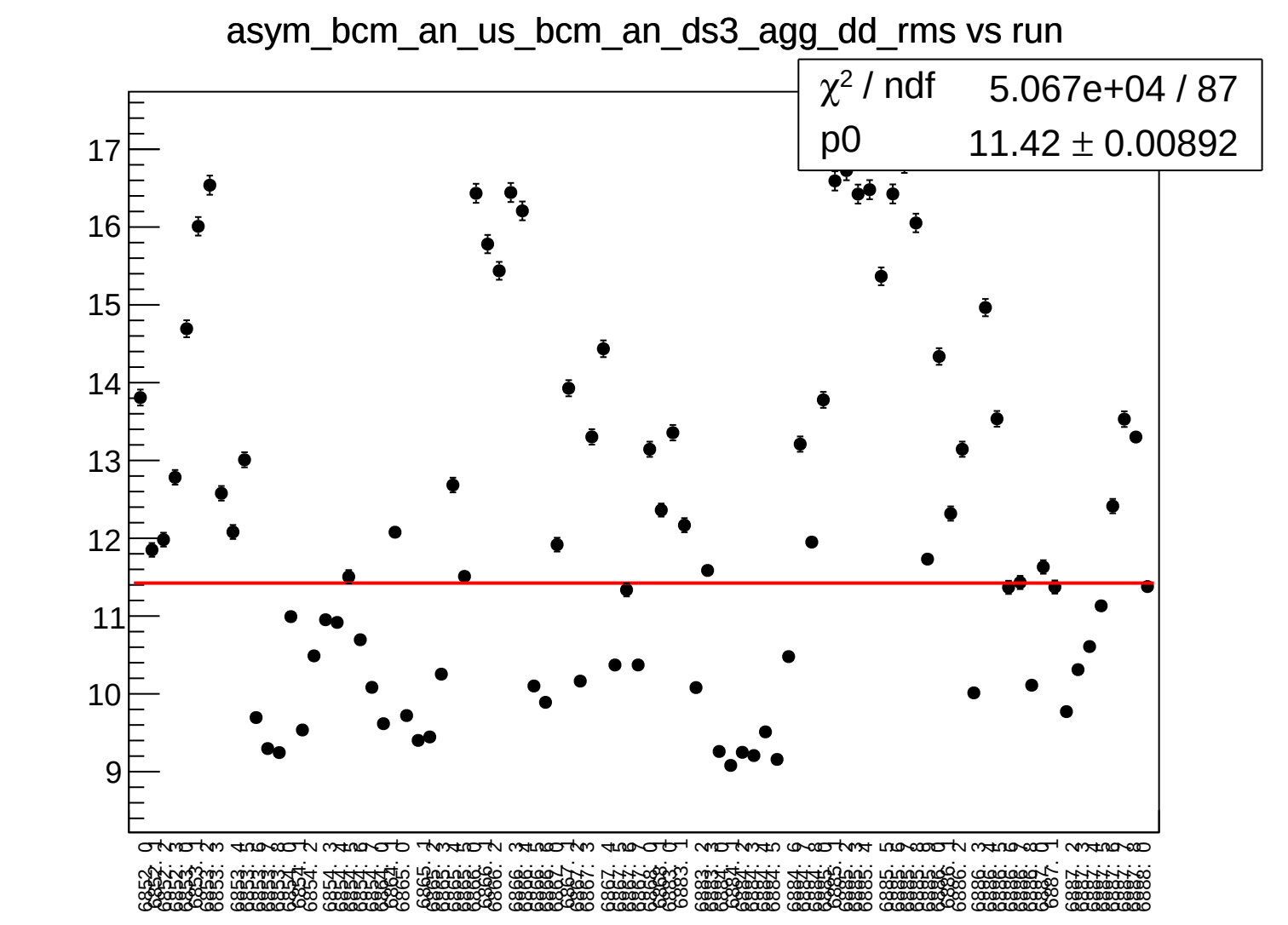

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 14.03 / 87
p0 −62.9 ± 507.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 135.4
Std Dev 0
1
0.5
0
−0.5
−1

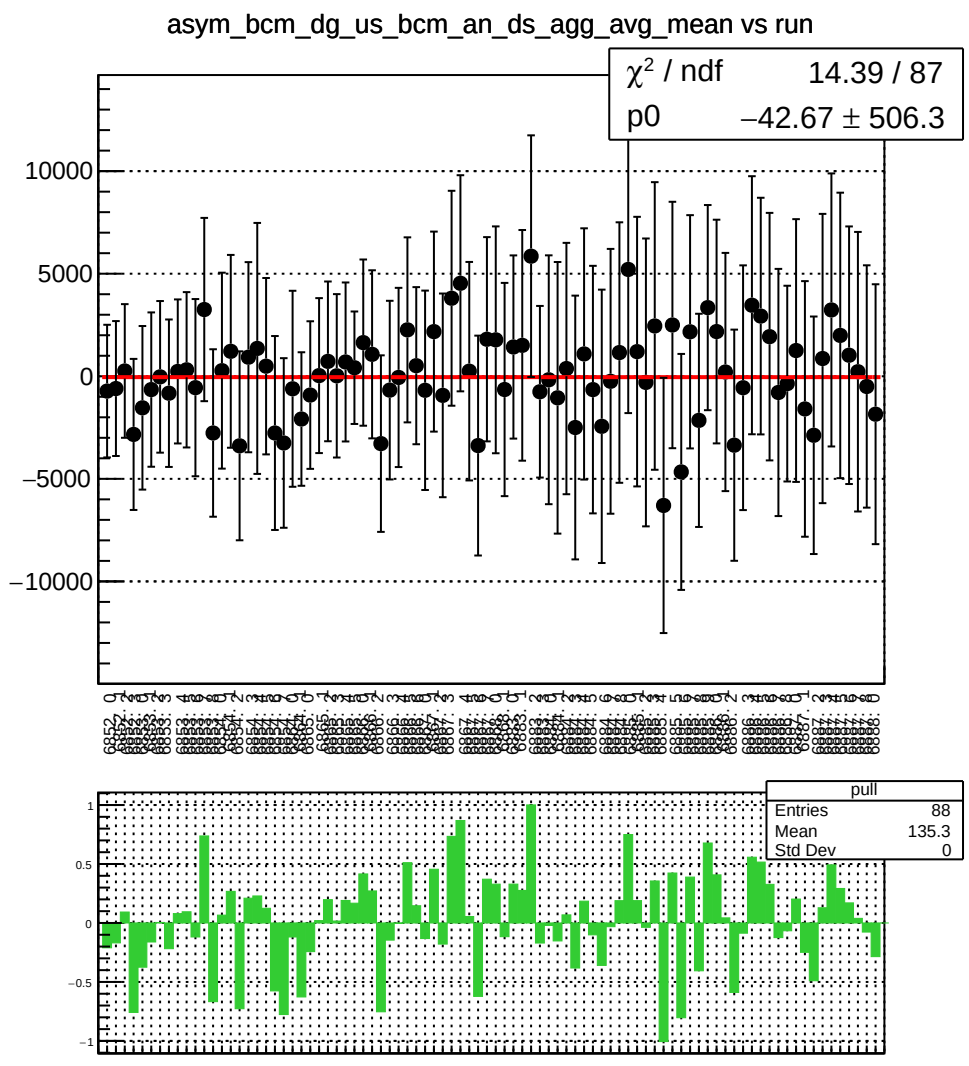

pull1D
Entries 88
Mean 0.01797
Std Dev 0.3988
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

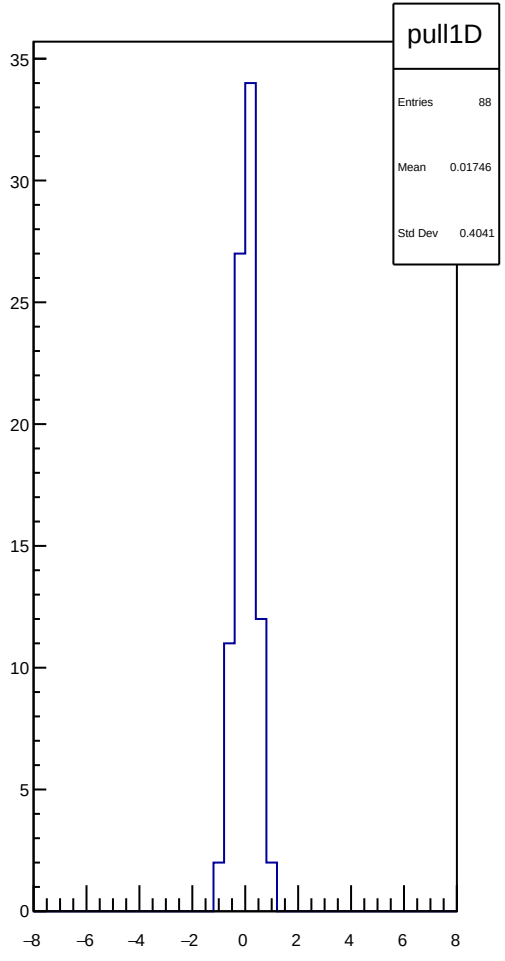

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 8.198e+04 / 87
p0 455.1 ± 0.3588
700
650
600
550
500
450
400
350
300

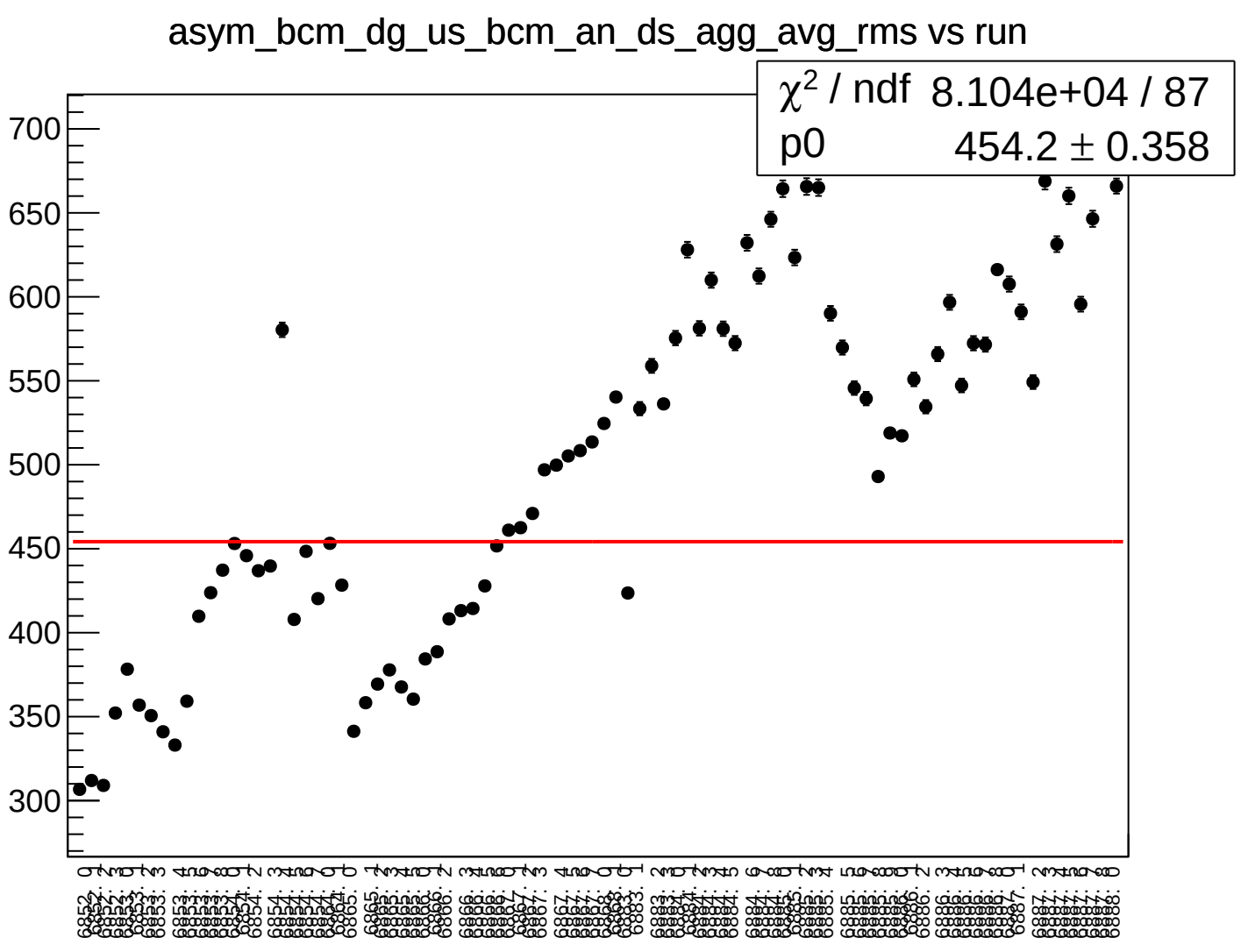

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 88.03 / 87
p0 1.98 ± 12.61
pull
Entries 88
Mean −185.8
Std Dev 0

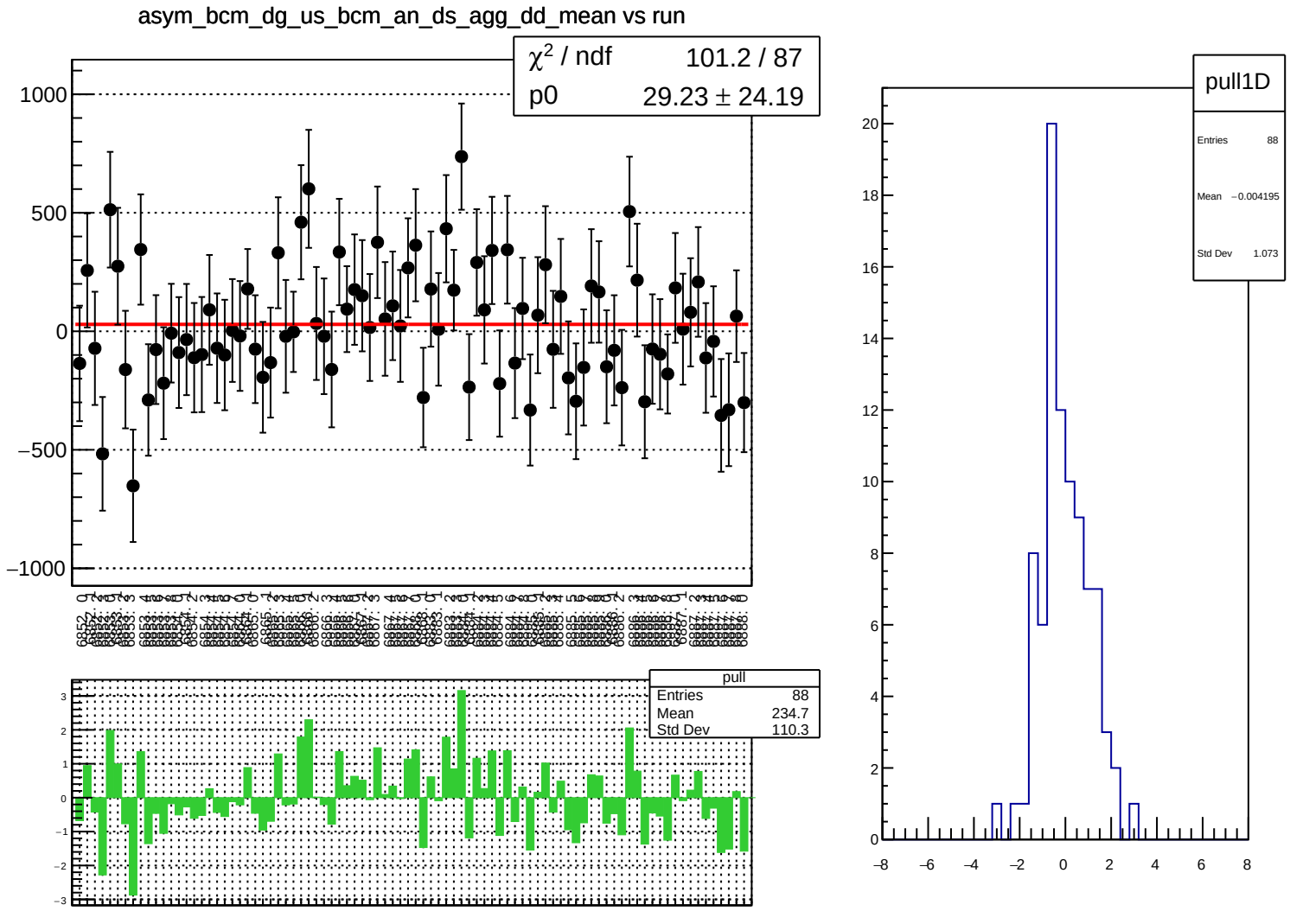

pull1D
Entries 88
Mean −0.01578
Std Dev 1

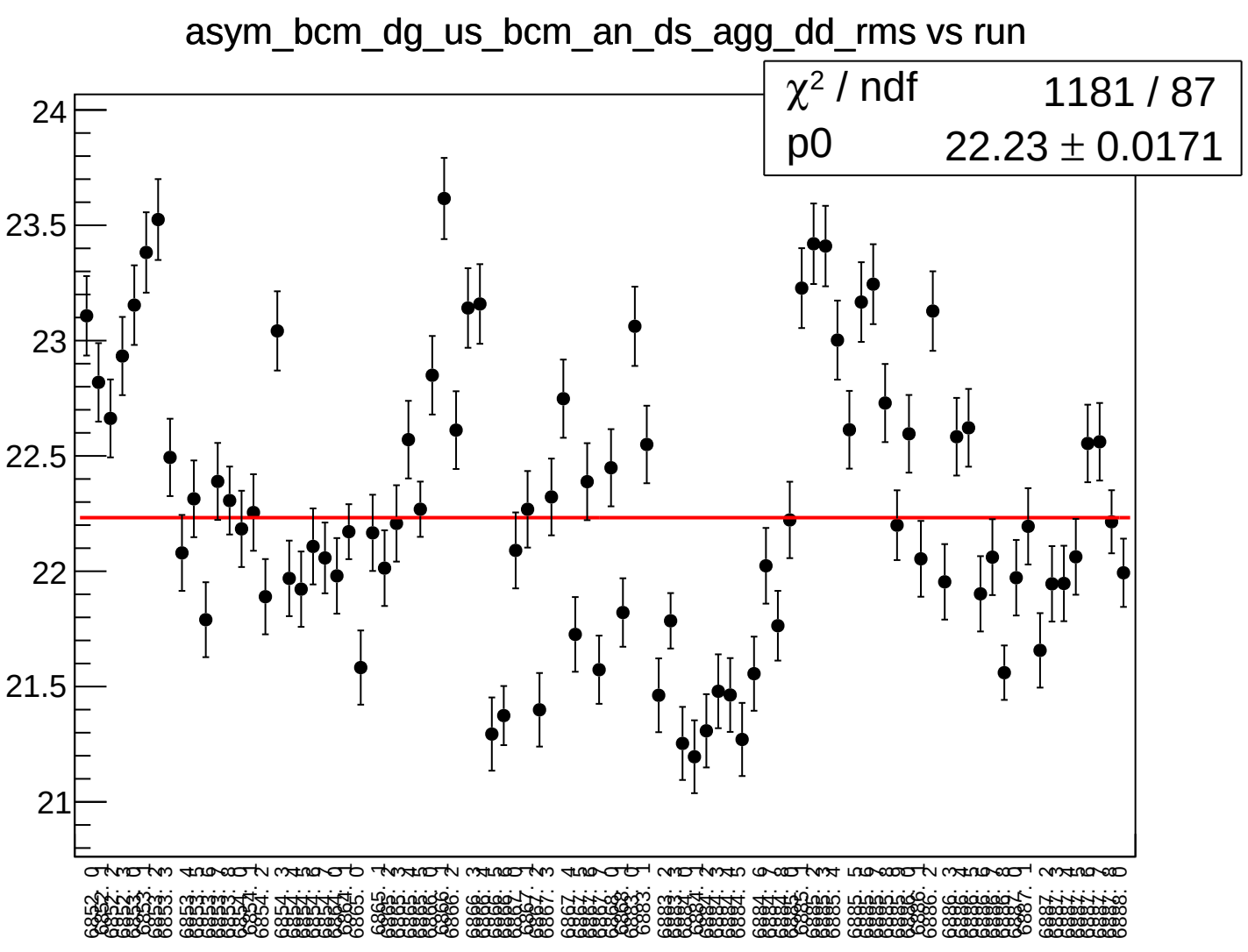

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 5.067e+04 / 87
p0 11.42 ± 0.00892
17
16
15
14
13
12
11
10
9

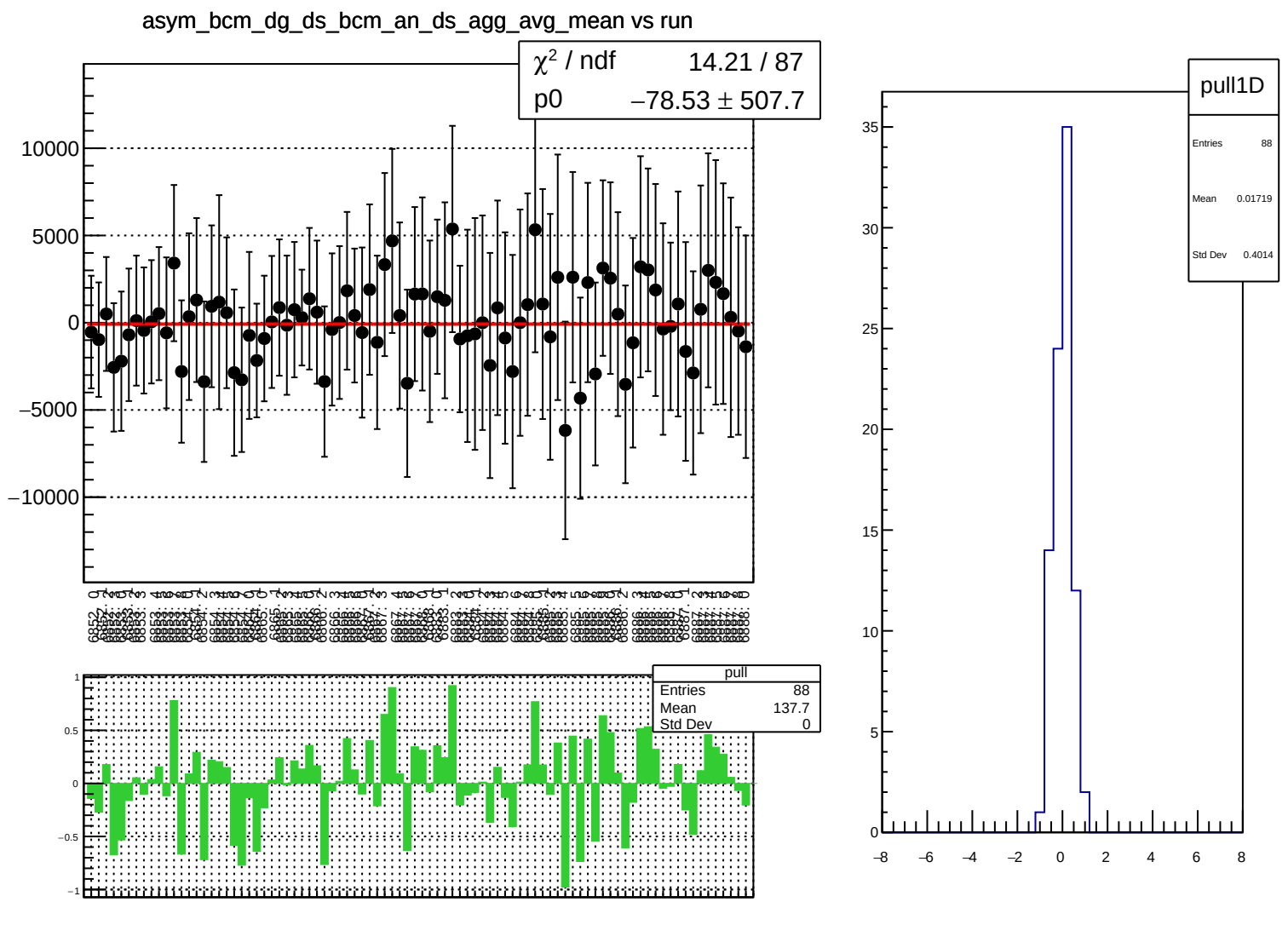

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.39 / 87
p0 −42.67 ± 506.3
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 135.3
Std Dev 0
1
0.5
0
−0.5
−1

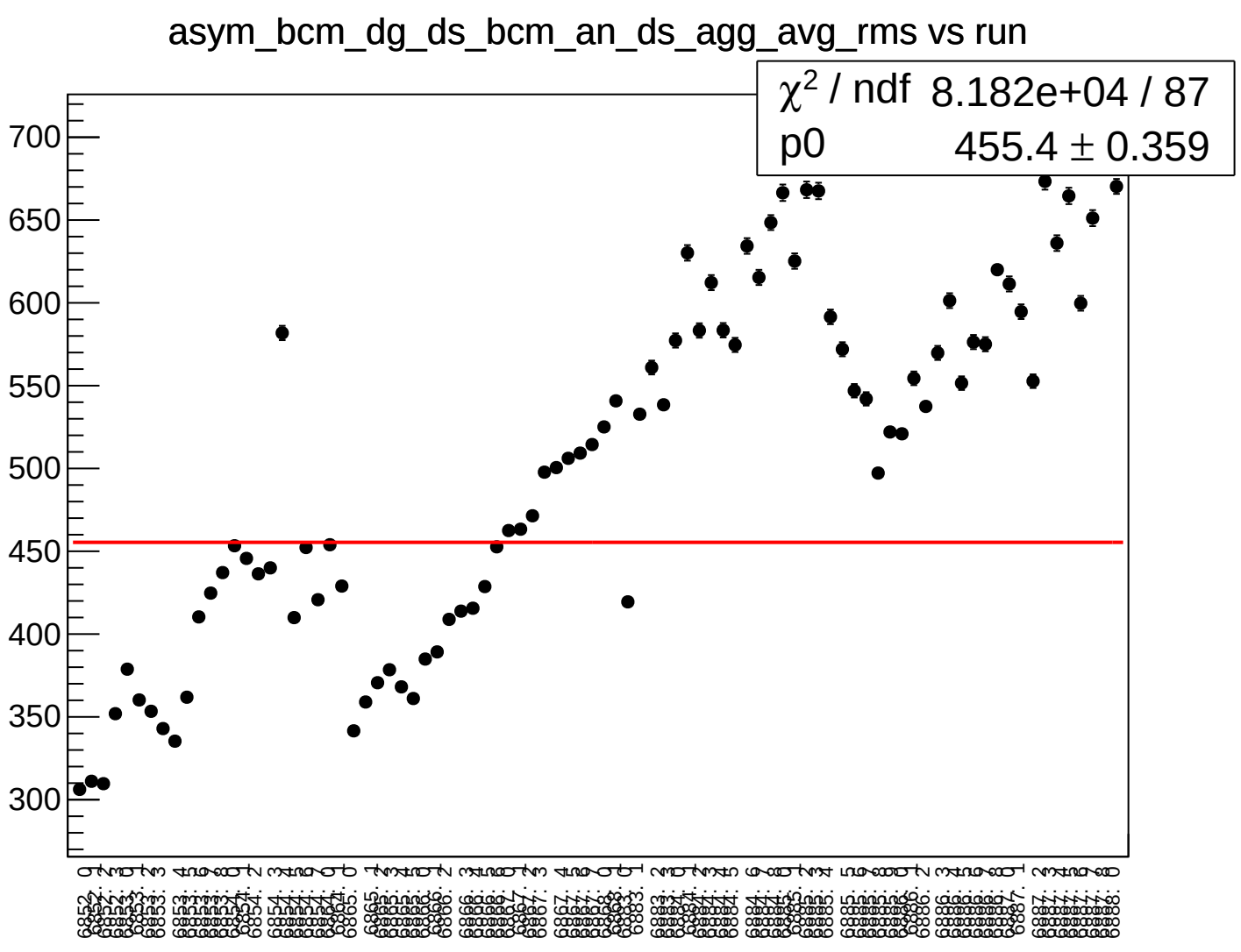

pull1D
Entries 88
Mean 0.01746
Std Dev 0.4041
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

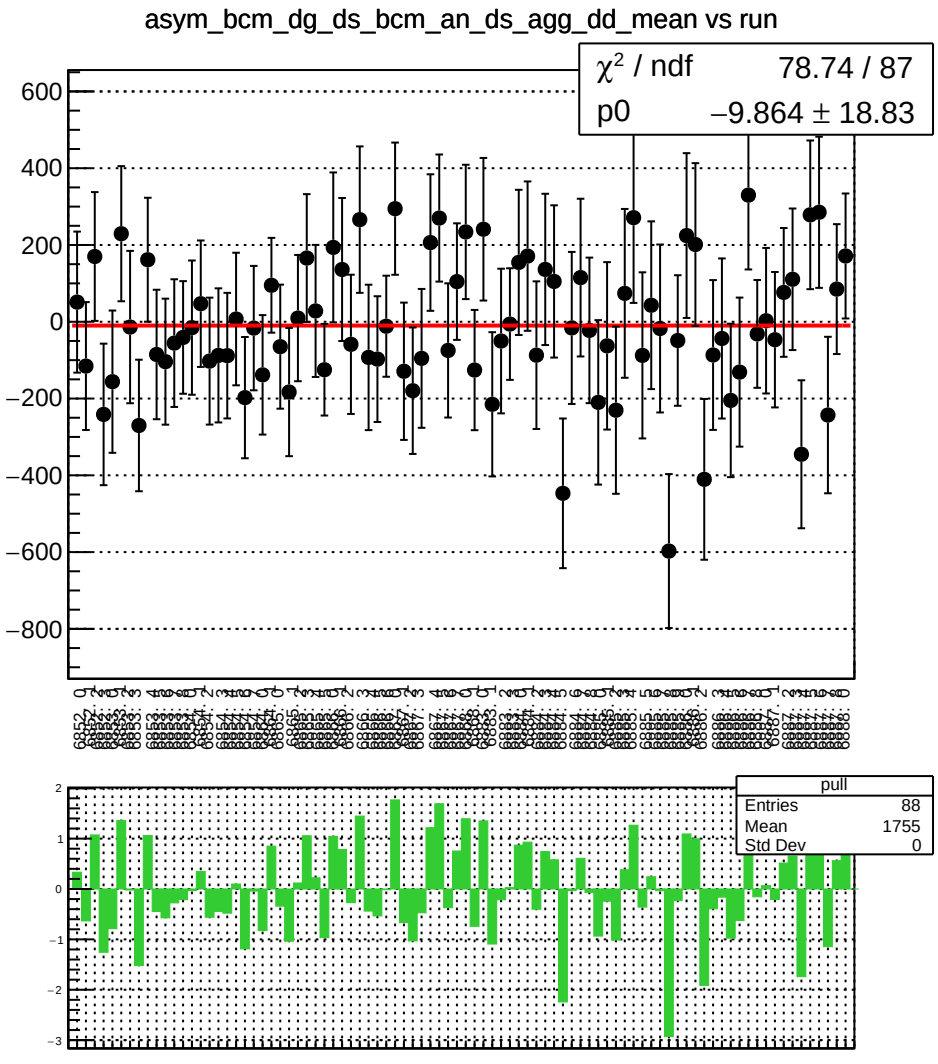

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8.104e+04 / 87
p0 454.2 ± 0.358
700
650
600
550
500
450
400
350
300

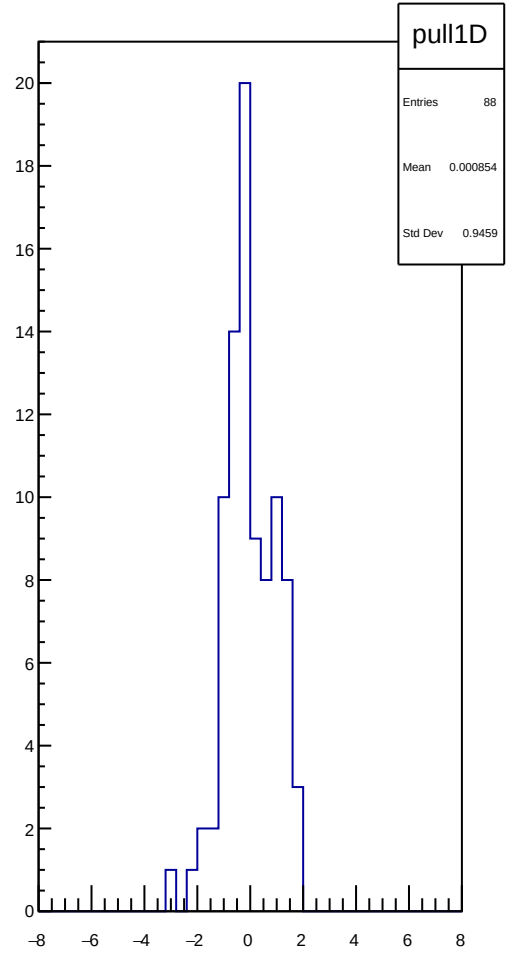

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 101.2 / 87
p0 29.23 ± 24.19
1000
500
0
−500
−1000
pull
Entries 88
Mean 234.7
Std Dev 110.3
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.004195
Std Dev 1.073
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

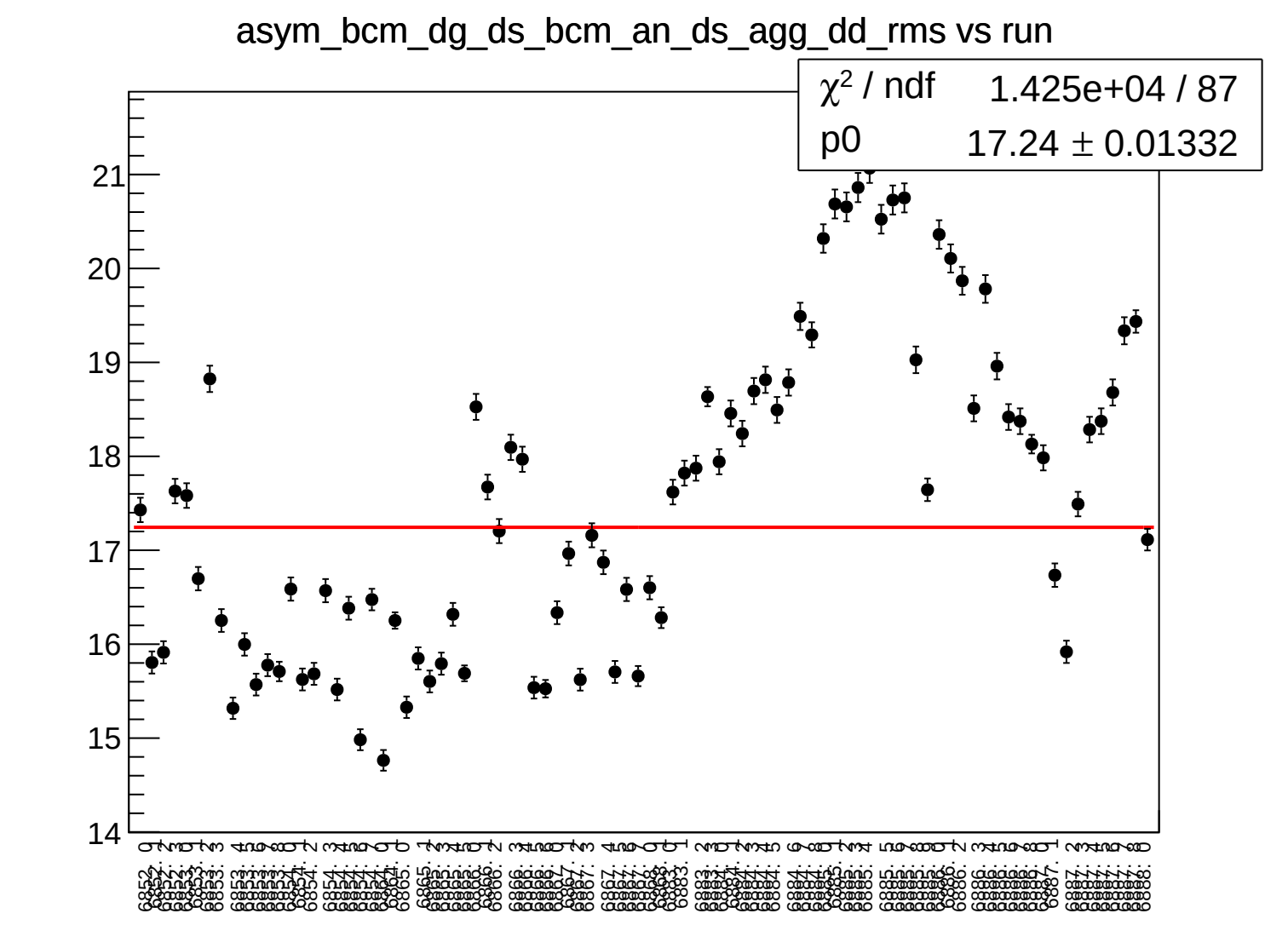

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1181 / 87
p0 22.23 ± 0.0171
24
23.5
23
22.5
22
21.5
21

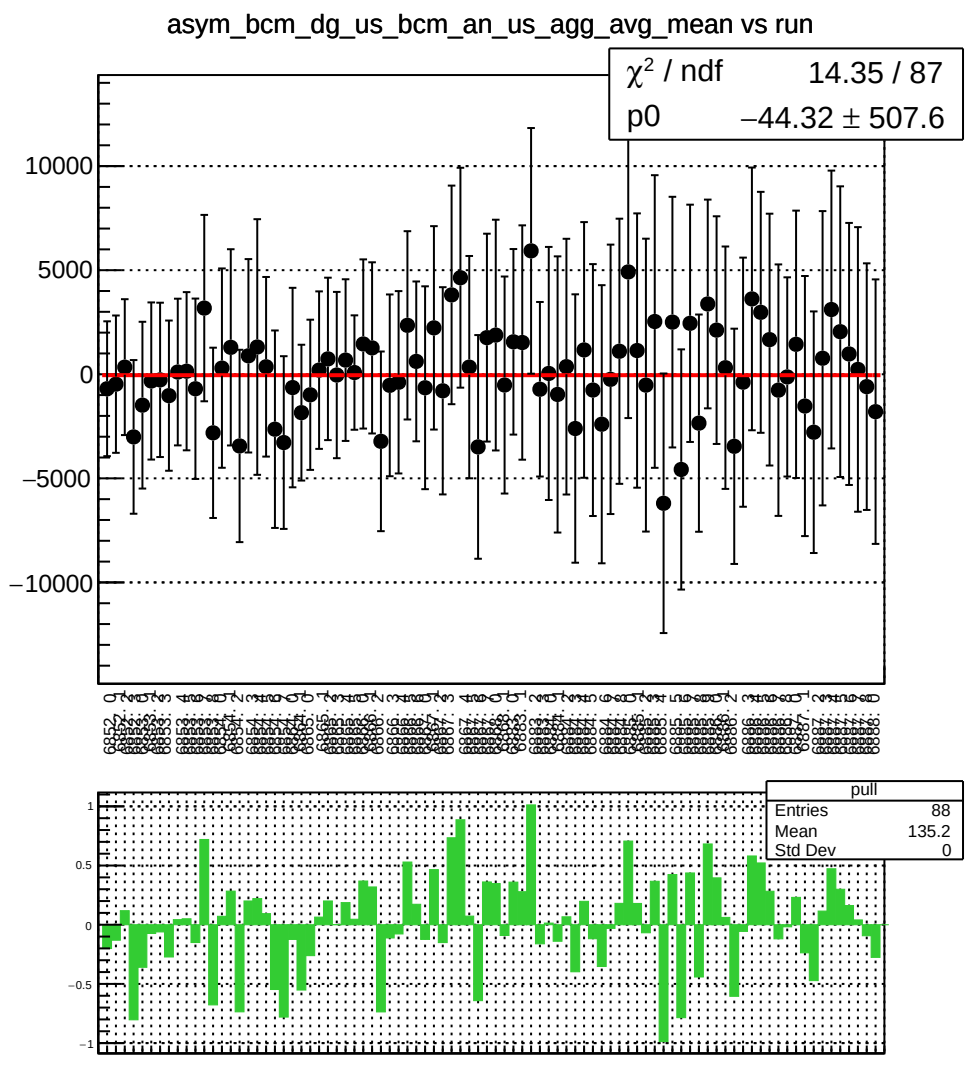

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.21 / 87
p0 −78.53 ± 507.7
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 137.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.01719
Std Dev 0.4014
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

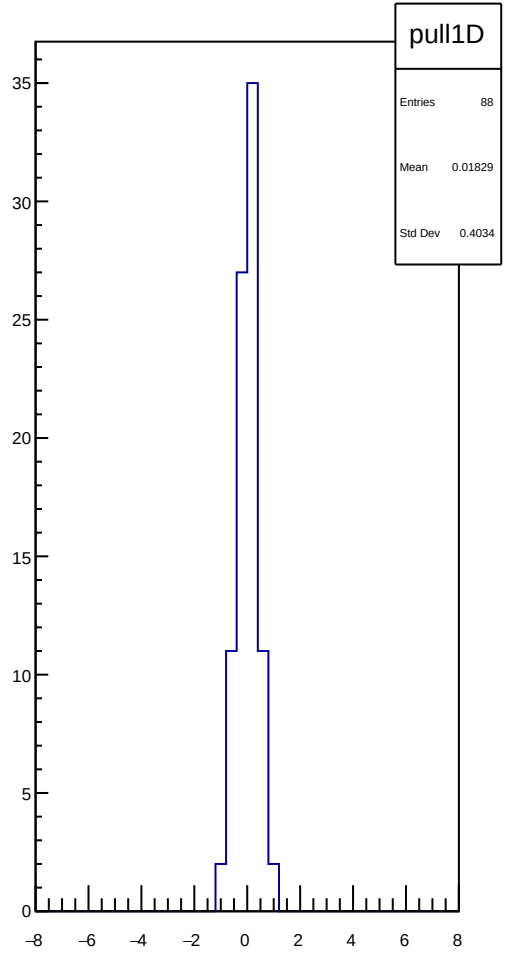

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8.182e+04 / 87
p0 455.4 ± 0.359
700
650
600
550
500
450
400
350
300

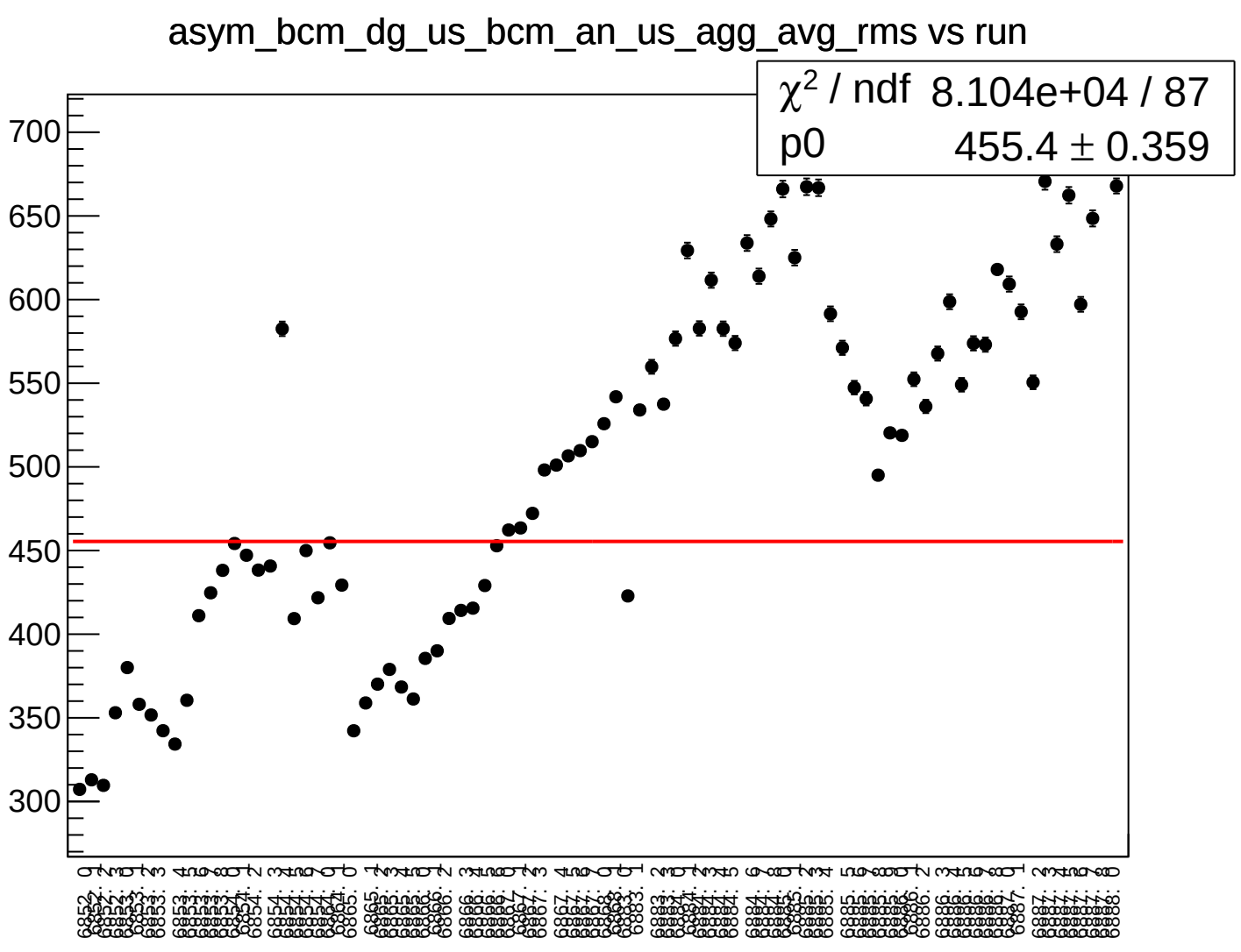

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 78.74 / 87
p0 −9.864 ± 18.83
pull
Entries 88
Mean 1755
Std Dev 0

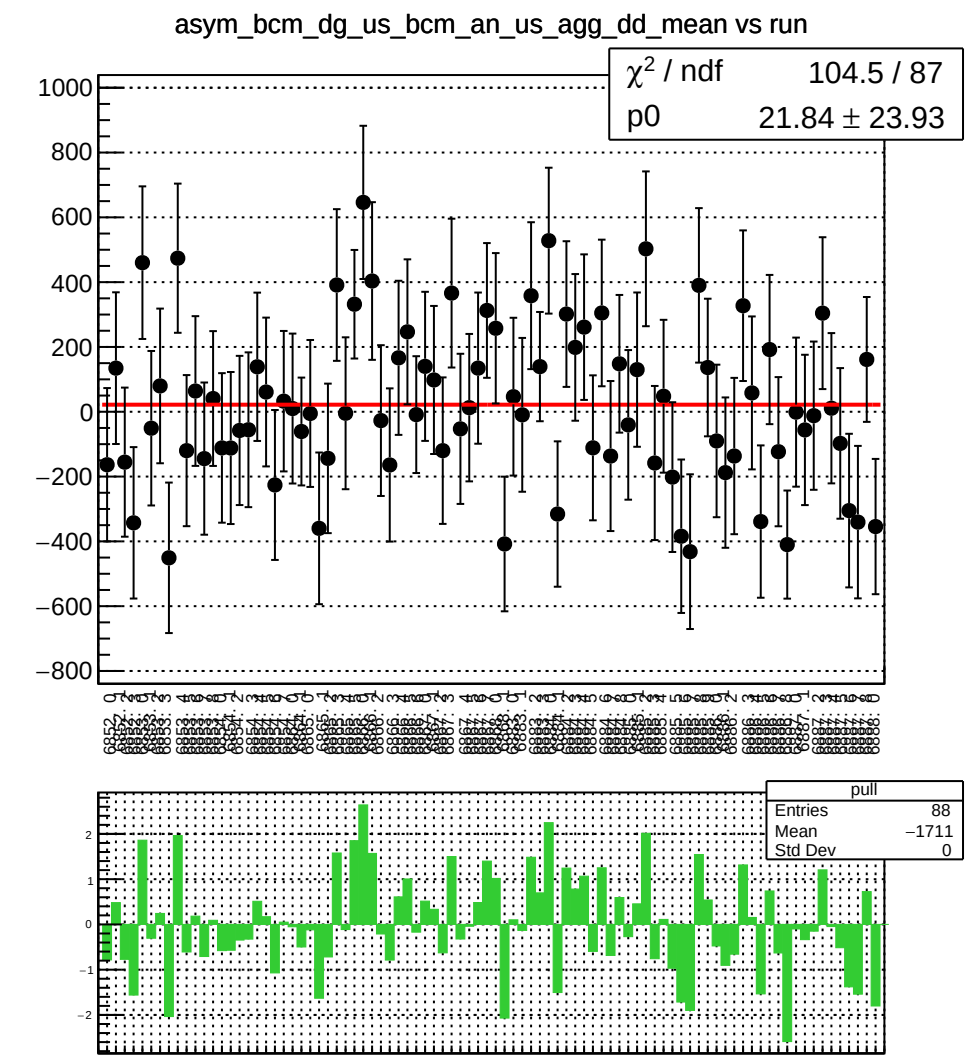

pull1D
Entries 88
Mean 0.000854
Std Dev 0.9459

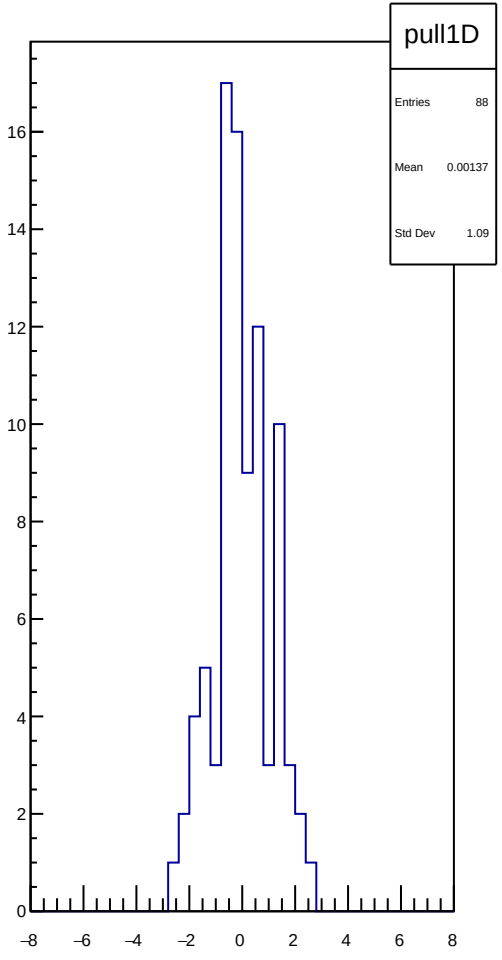

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.425e+04 / 87
p0 17.24 ± 0.01332
21
20
19
18
17
16
15
14

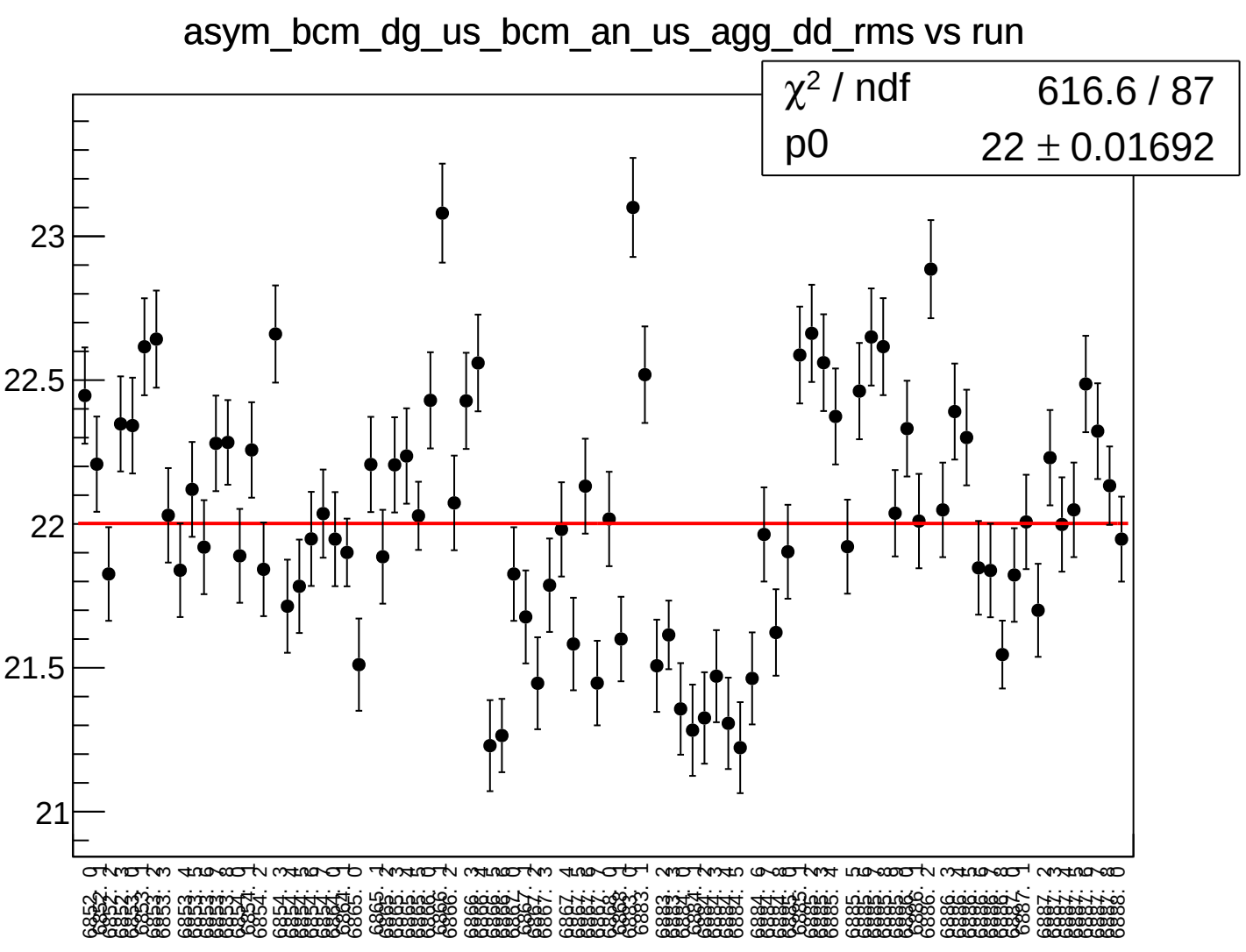

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.35 / 87
p0 −44.32 ± 507.6
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 135.2
Std Dev 0
1
0.5
0
−0.5
−1

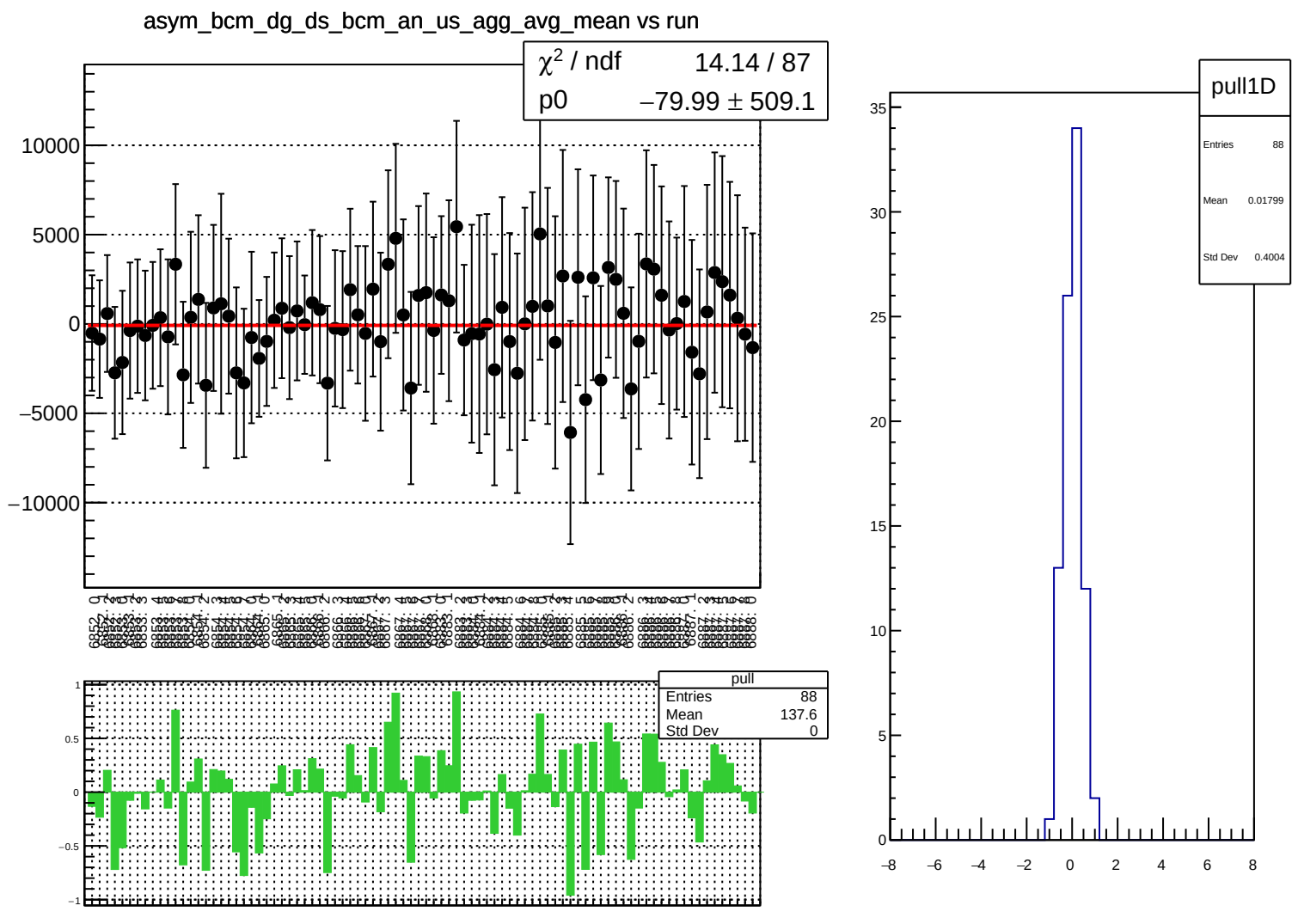

pull1D
Entries 88
Mean 0.01829
Std Dev 0.4034
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

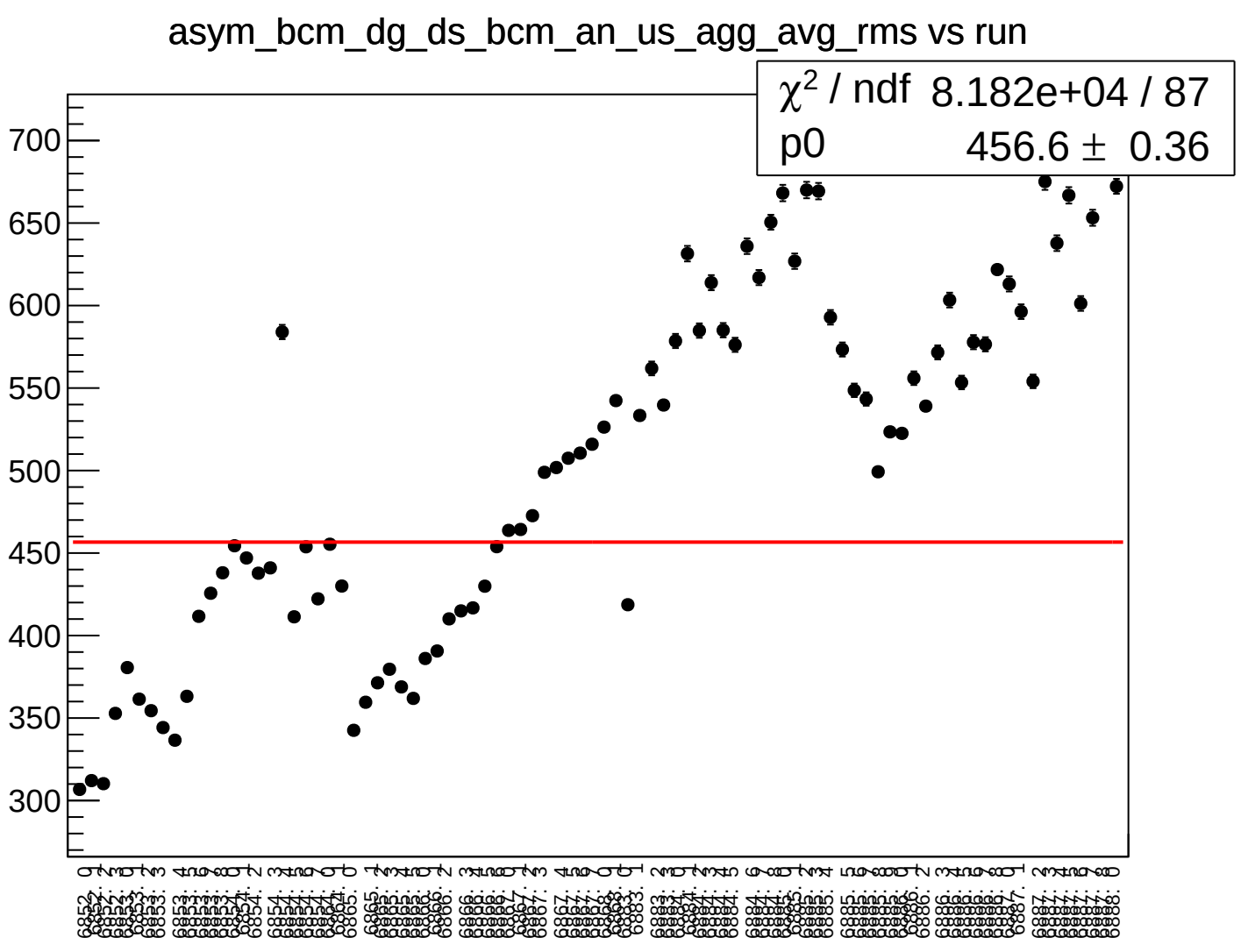

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 8.104e+04 / 87
p0 455.4 ± 0.359
700
650
600
550
500
450
400
350
300

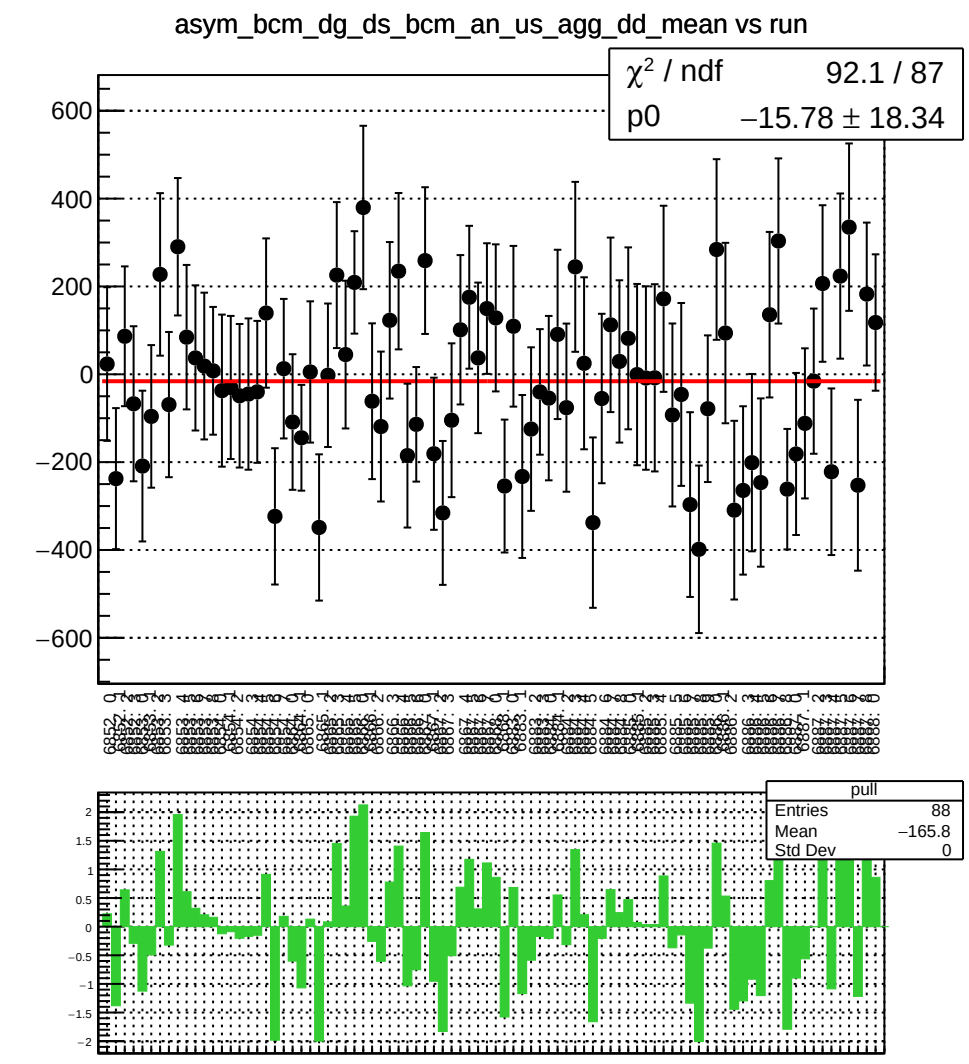

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 104.5 / 87
p0 21.84 ± 23.93
pull
Entries 88
Mean −1711
Std Dev 0

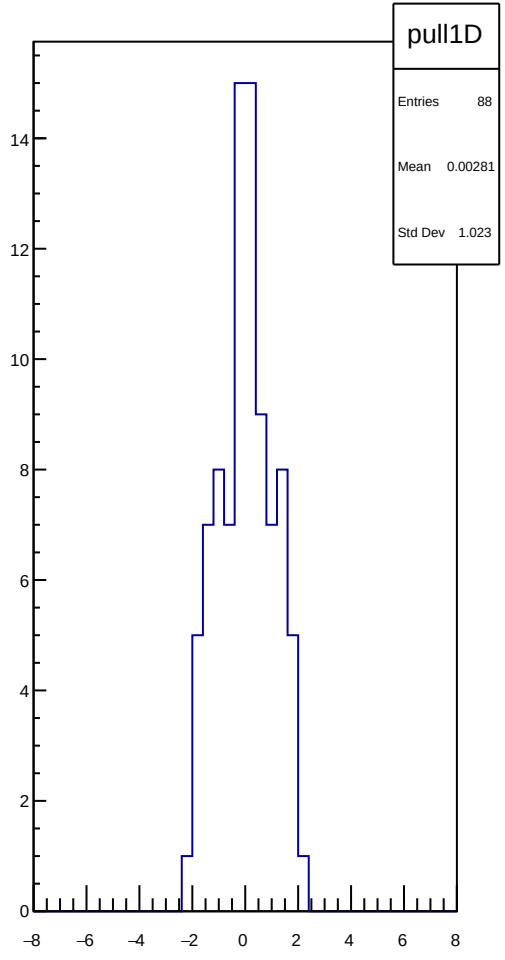

pull1D
Entries 88
Mean 0.00137
Std Dev 1.09

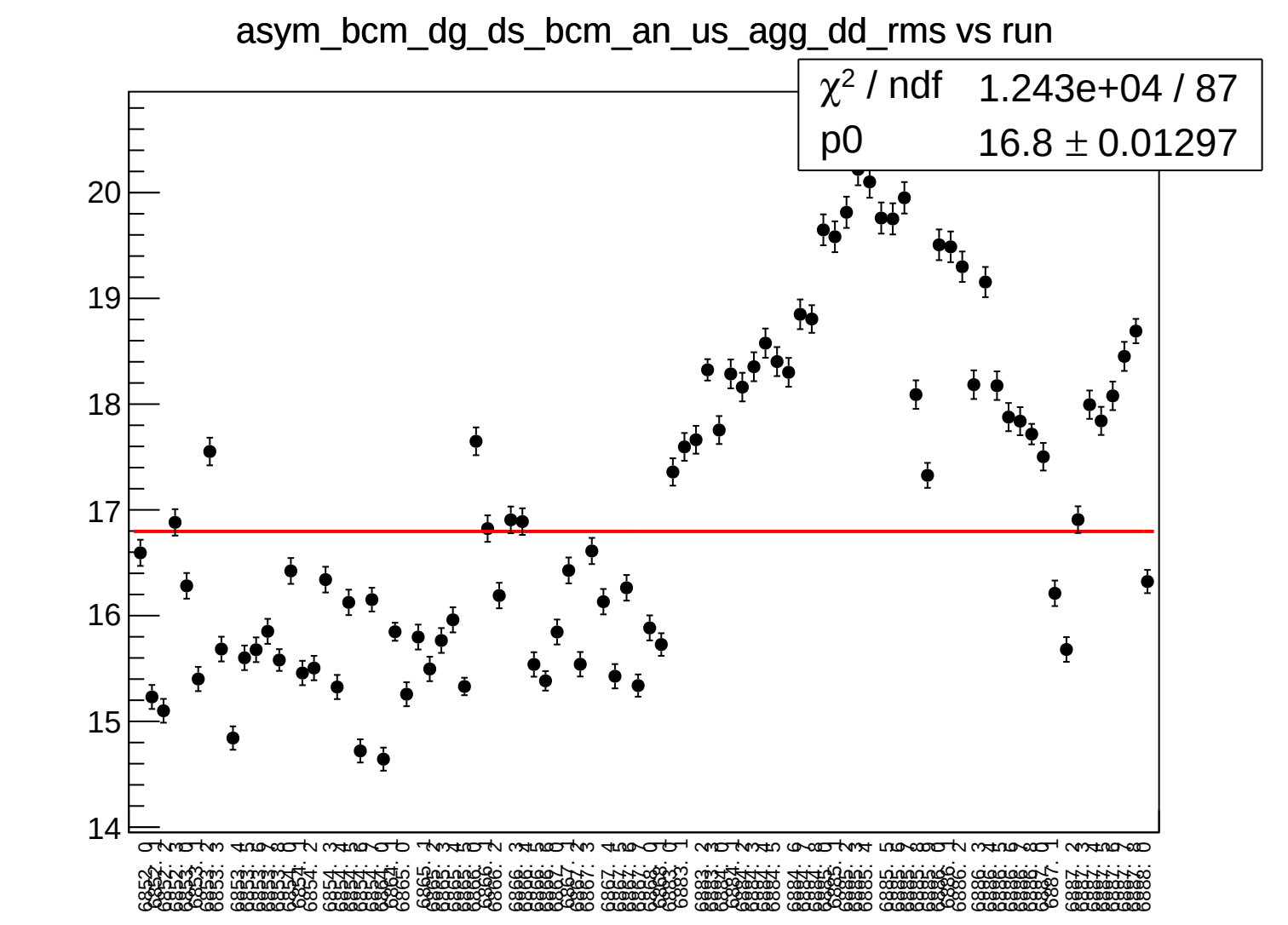

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 616.6 / 87
p0 22 ± 0.01692
23
22.5
22
21.5
21

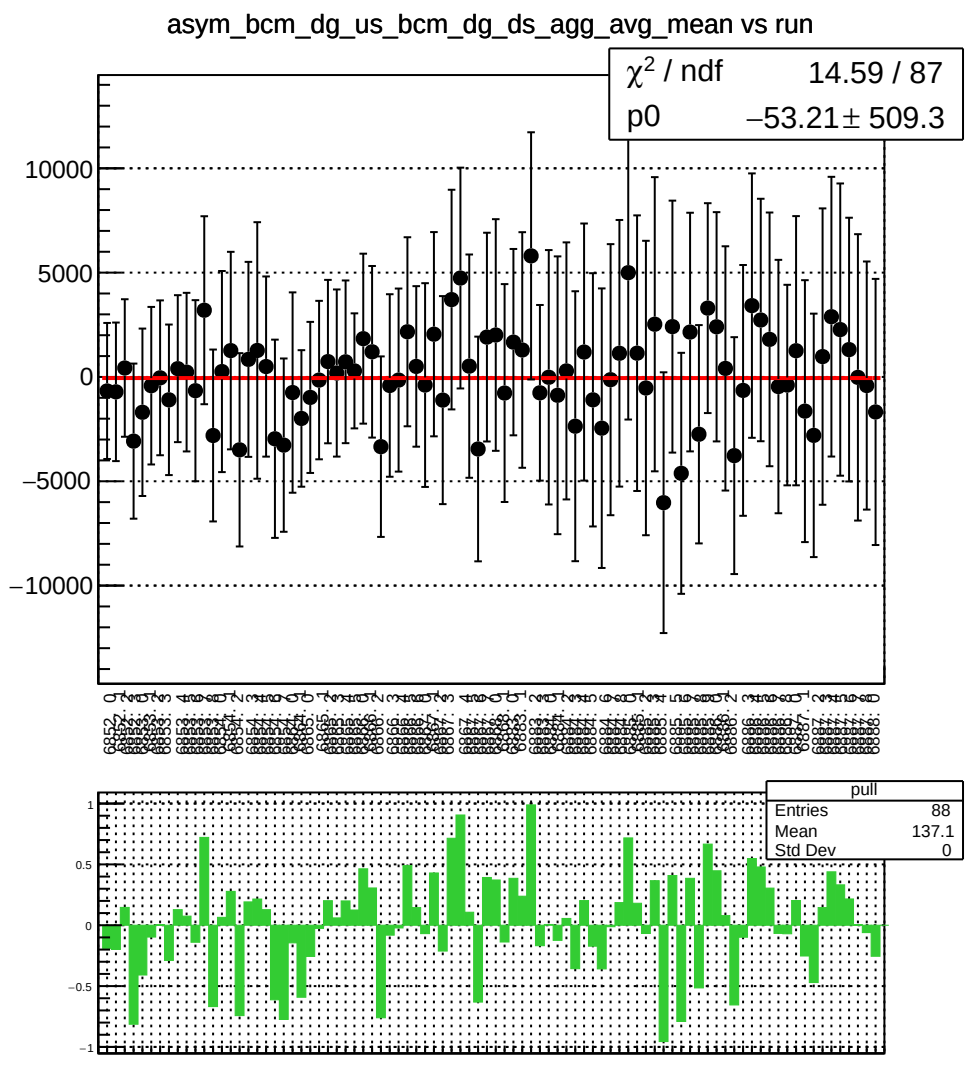

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.14 / 87
p0 −79.99 ± 509.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 137.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.01799
Std Dev 0.4004
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

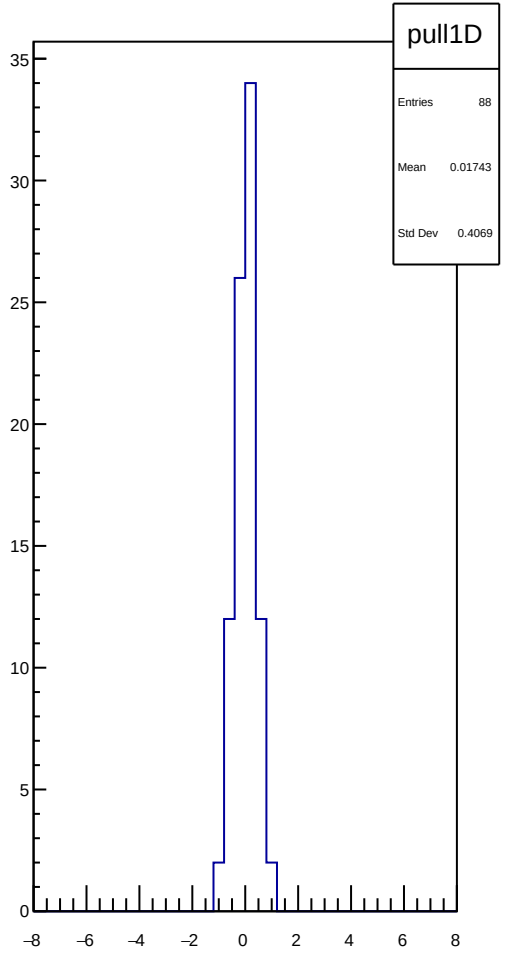

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 8.182e+04 / 87
p0 456.6 ± 0.36
700
650
600
550
500
450
400
350
300

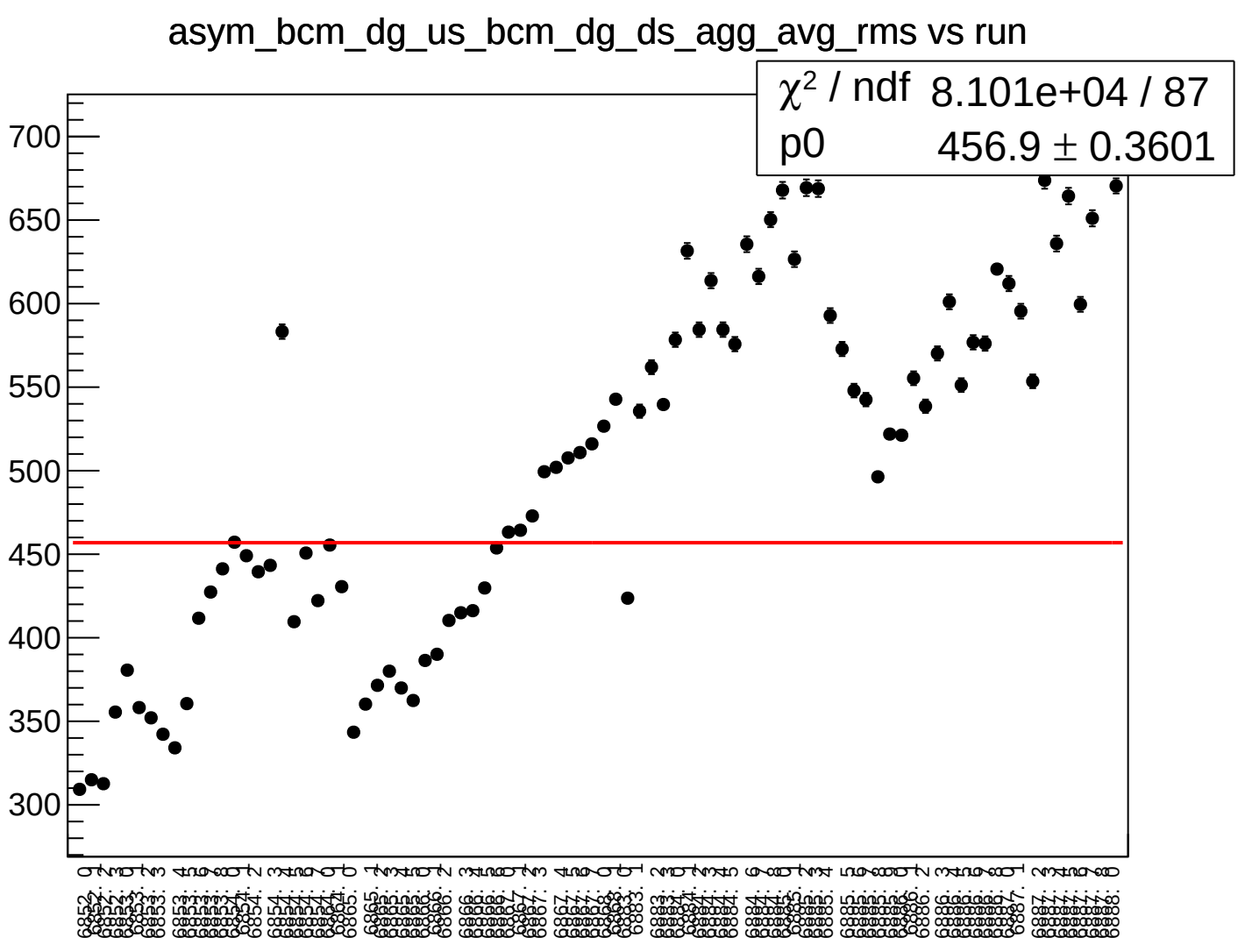

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 92.1 / 87
p0 −15.78 ± 18.34
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean −165.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

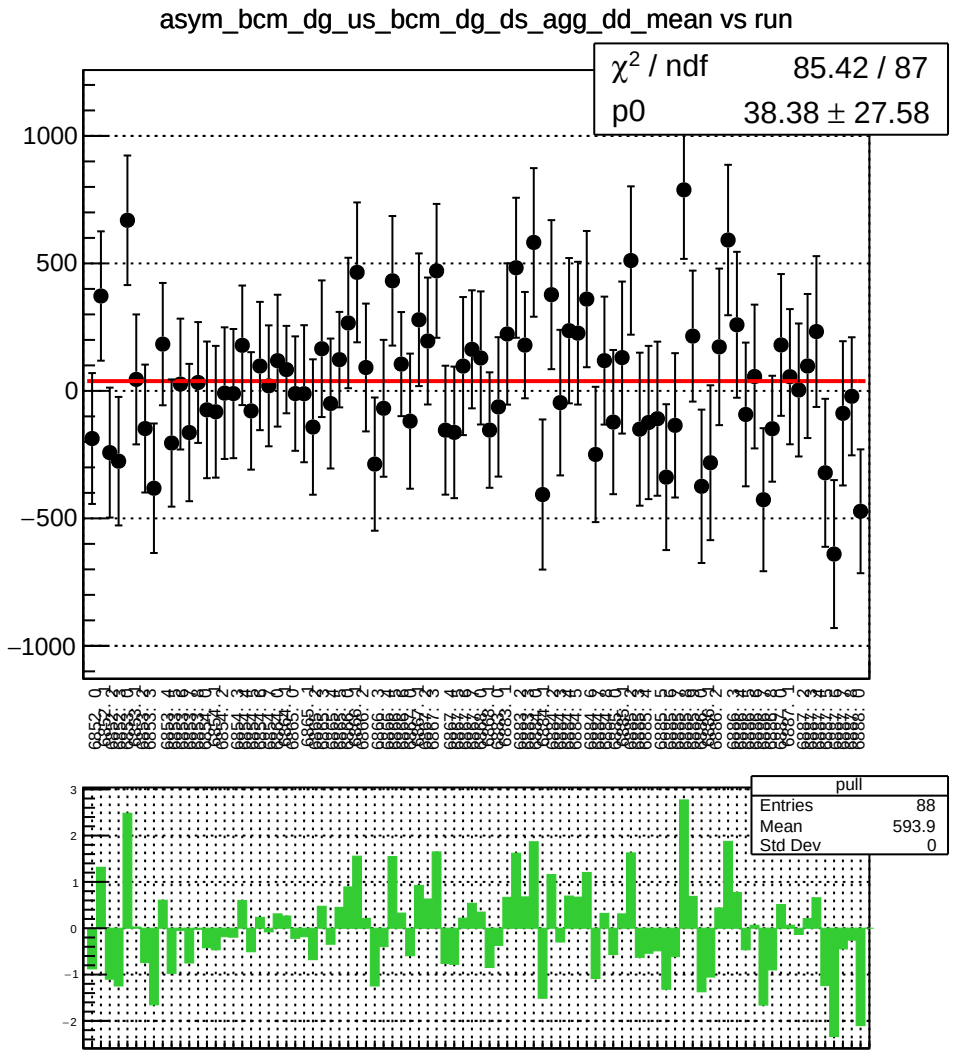

pull1D
Entries 88
Mean 0.00281
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

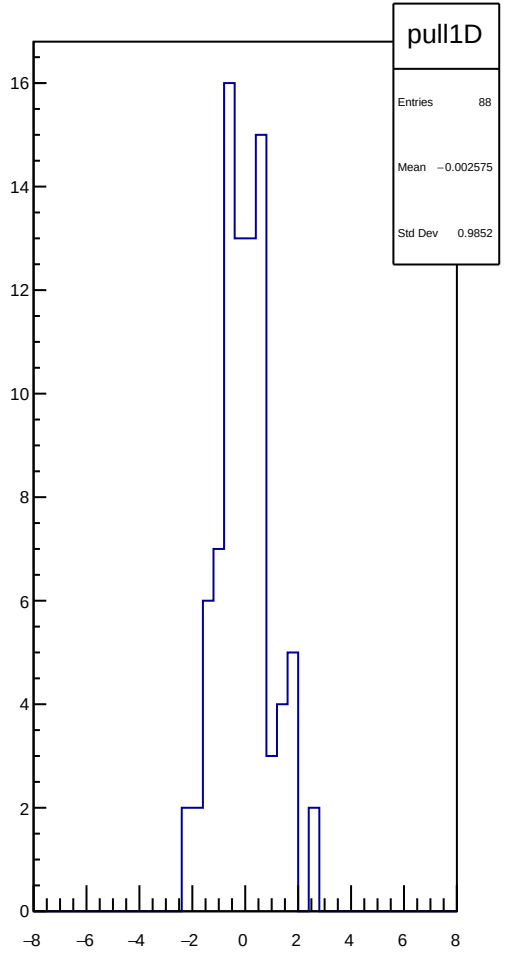

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.243e+04 / 87
p0 16.8 ± 0.01297
20
19
18
17
16
15
14

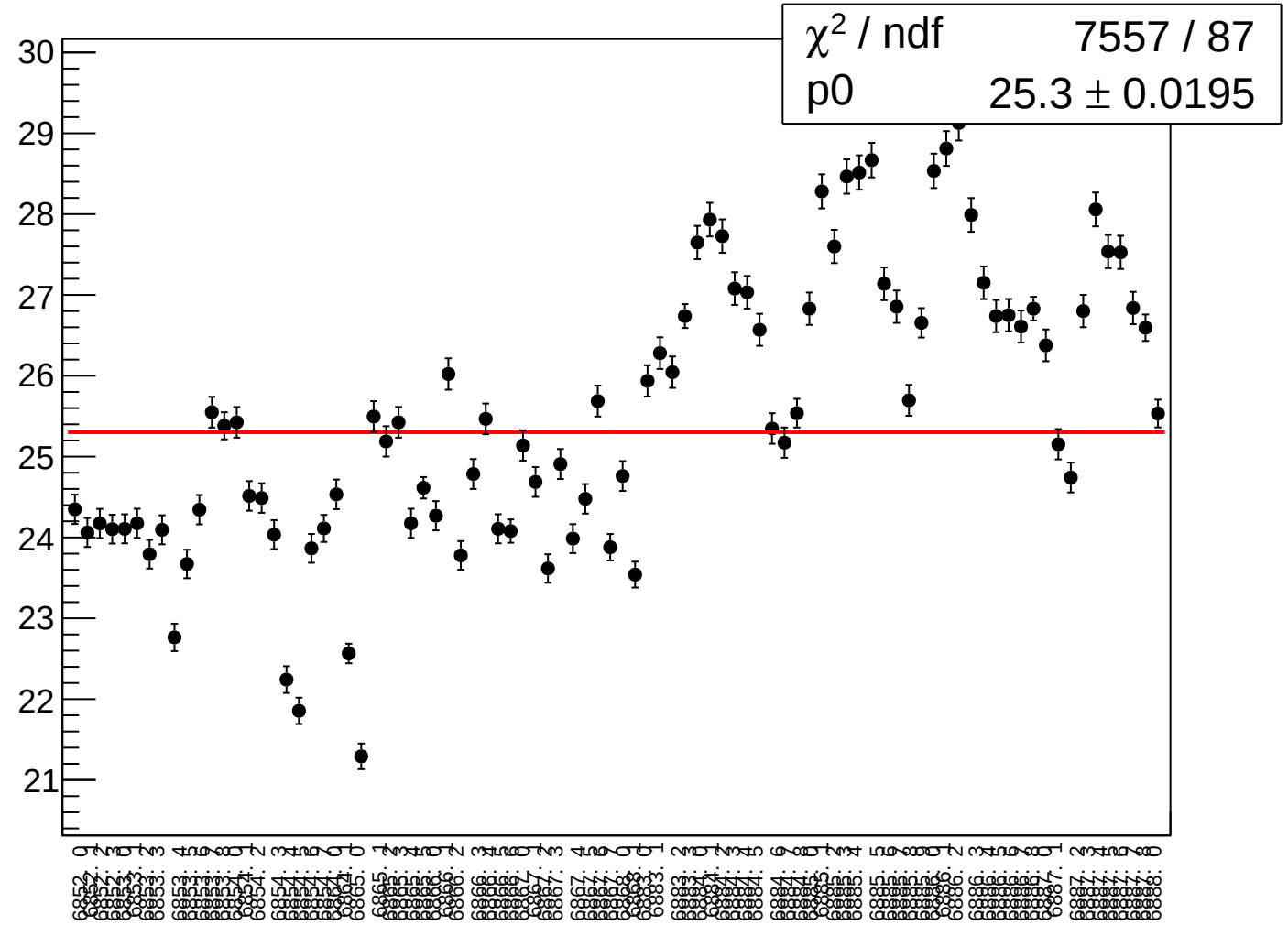

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 14.59 / 87
p0 −53.21 ± 509.3
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 137.1
Std Dev 0
1
0.5
0
−0.5
−1

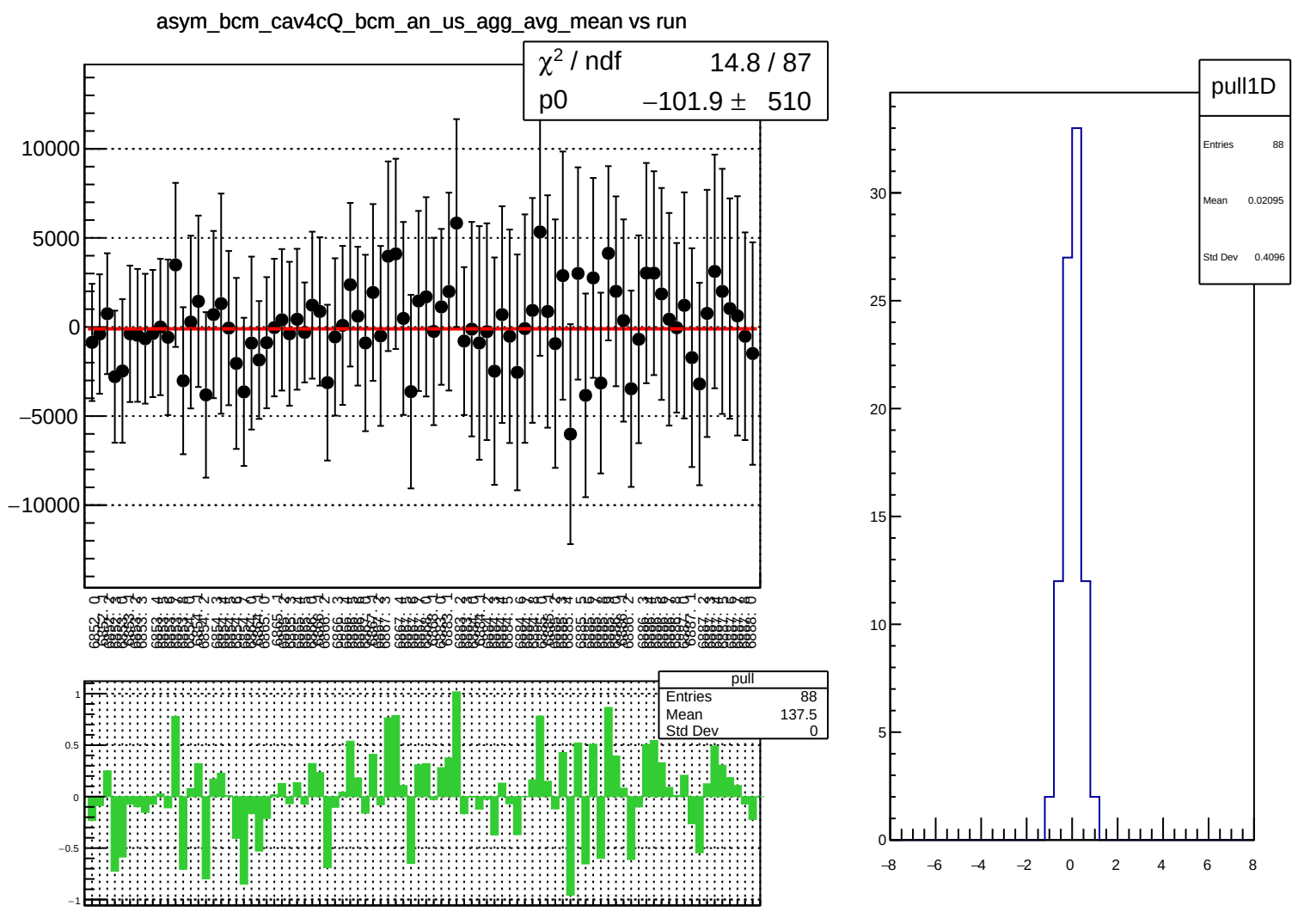

pull1D
Entries 88
Mean 0.01743
Std Dev 0.4069
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

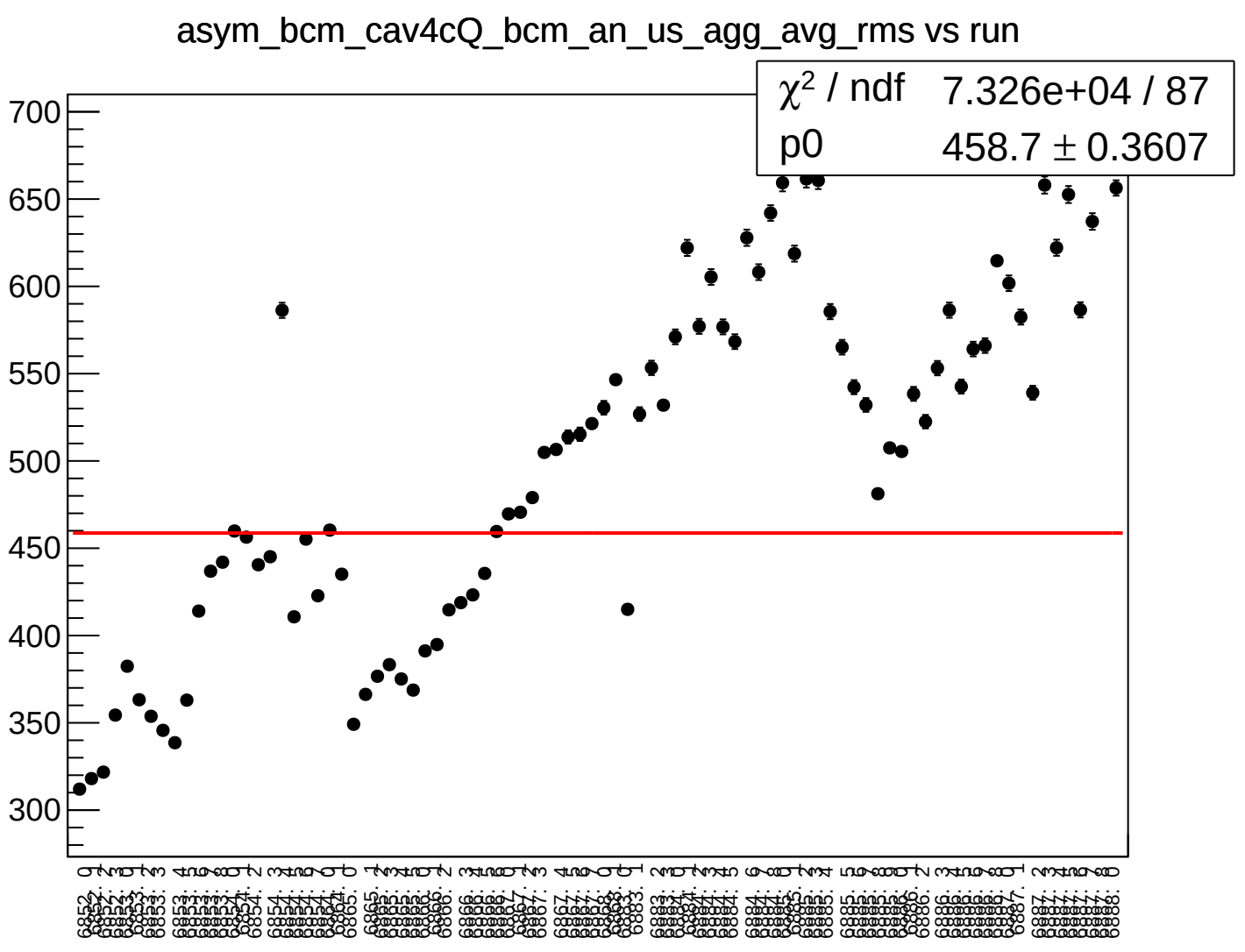

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 8.101e+04 / 87
p0 456.9 ± 0.3601
700
650
600
550
500
450
400
350
300

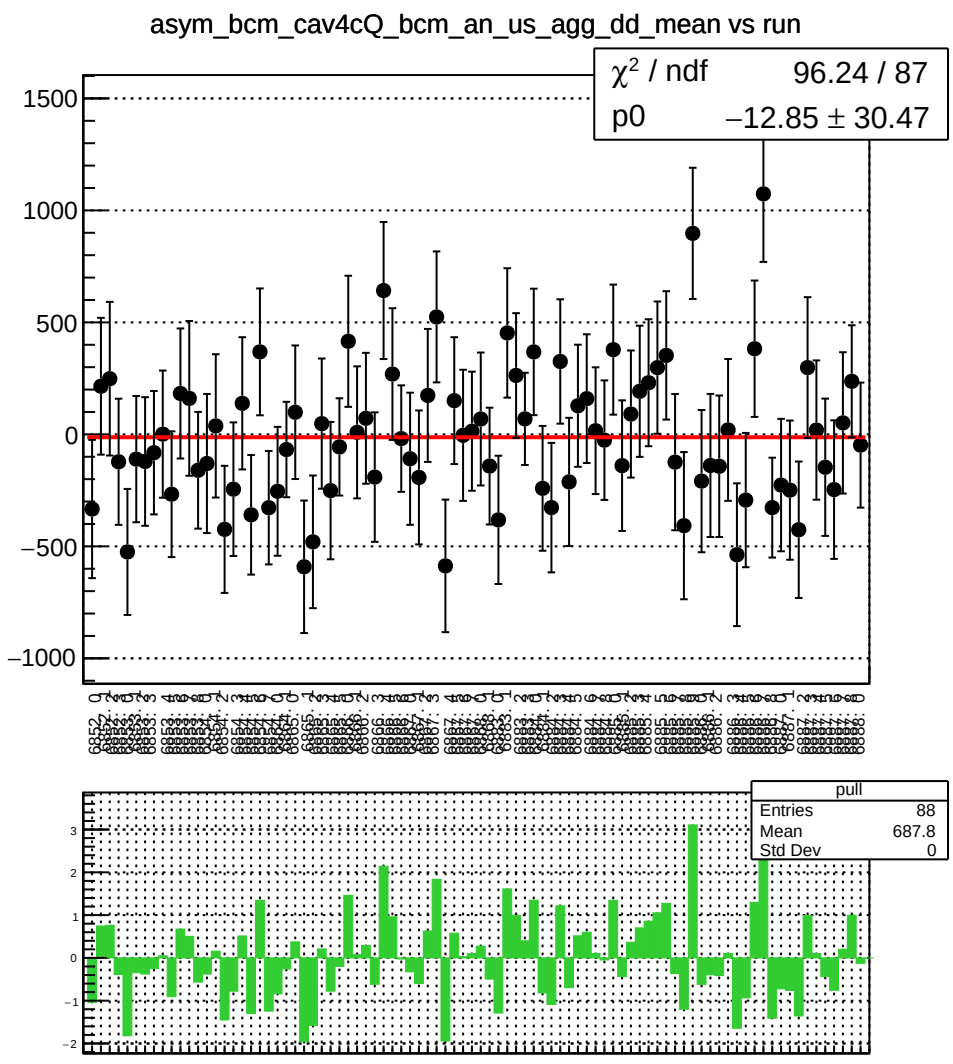

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 85.42 / 87
p0 38.38 ± 27.58
1000
500
0
−500
−1000
pull
Entries 88
Mean 593.9
Std Dev 0
3
2
1
0
−1
−2

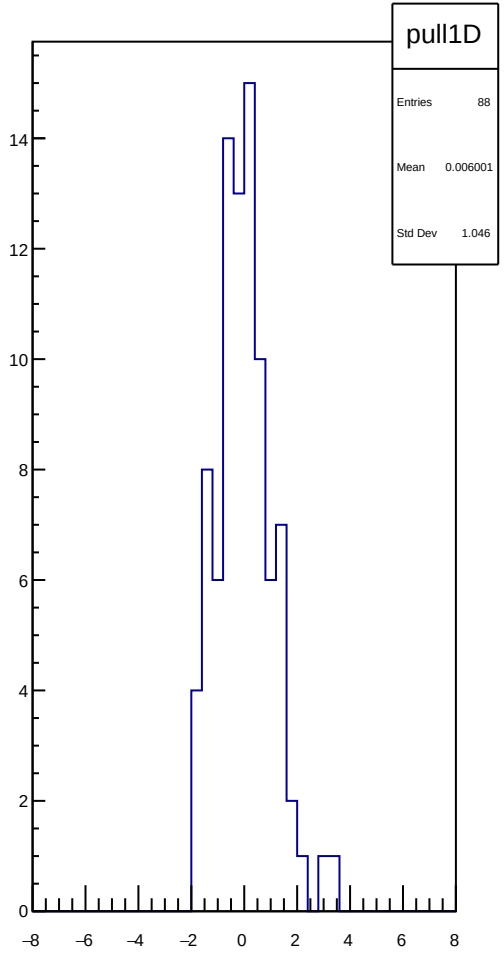

pull1D
Entries 88
Mean −0.002575
Std Dev 0.9852
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

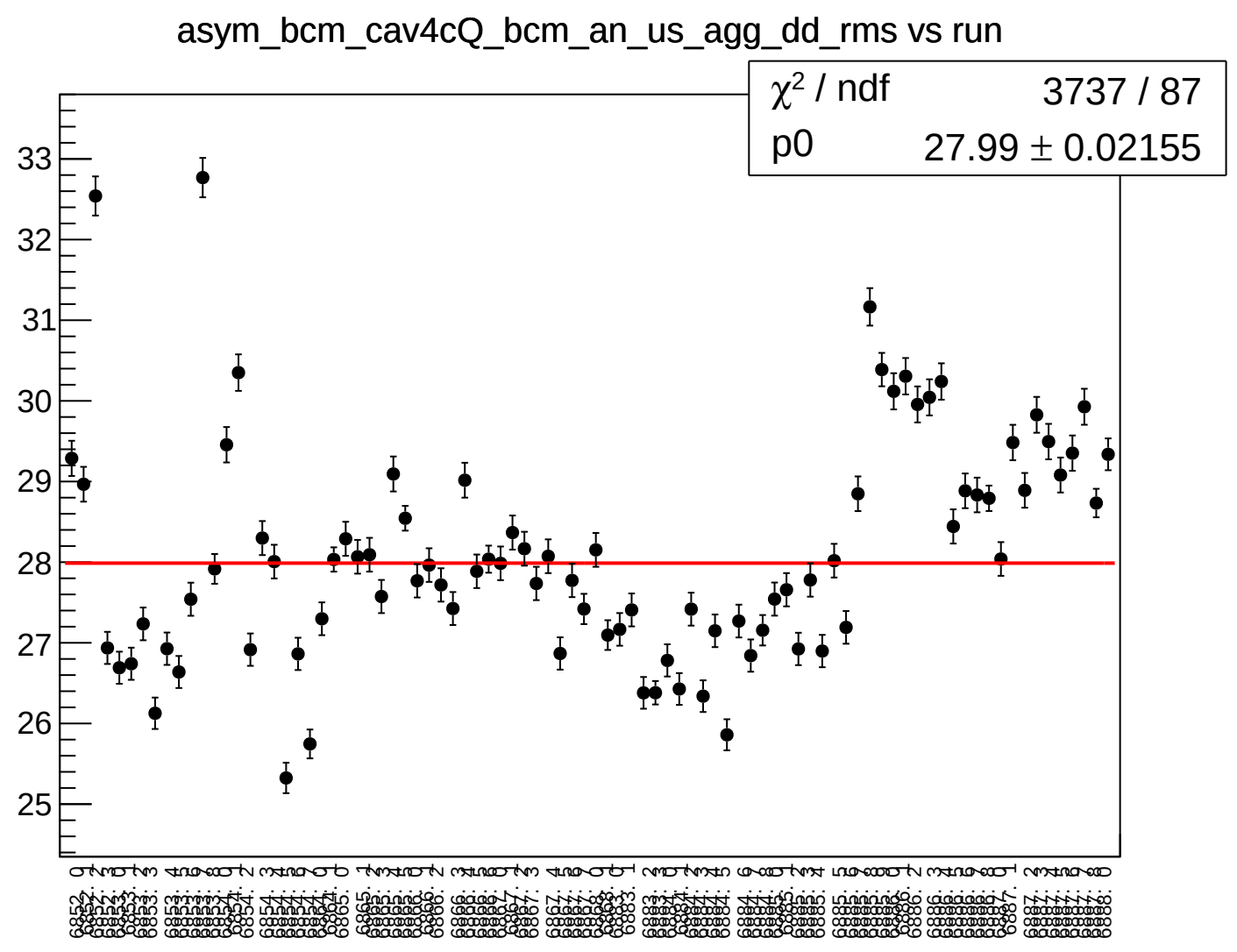

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 7557 / 87
p0 25.3 ± 0.0195
30
29
28
27
26
25
24
23
22
21

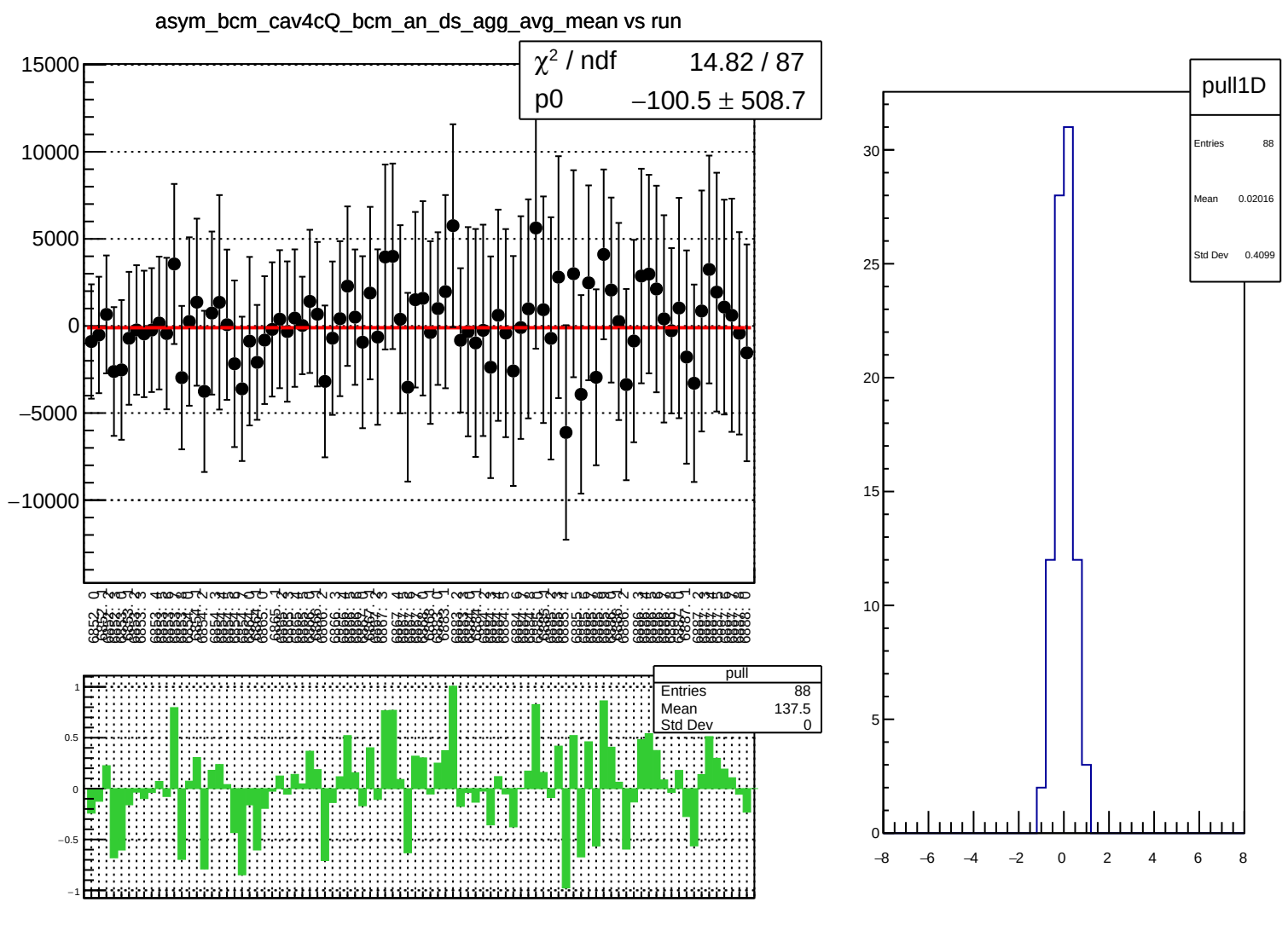

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.8 / 87
p0 −101.9 ± 510
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 137.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.02095
Std Dev 0.4096
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

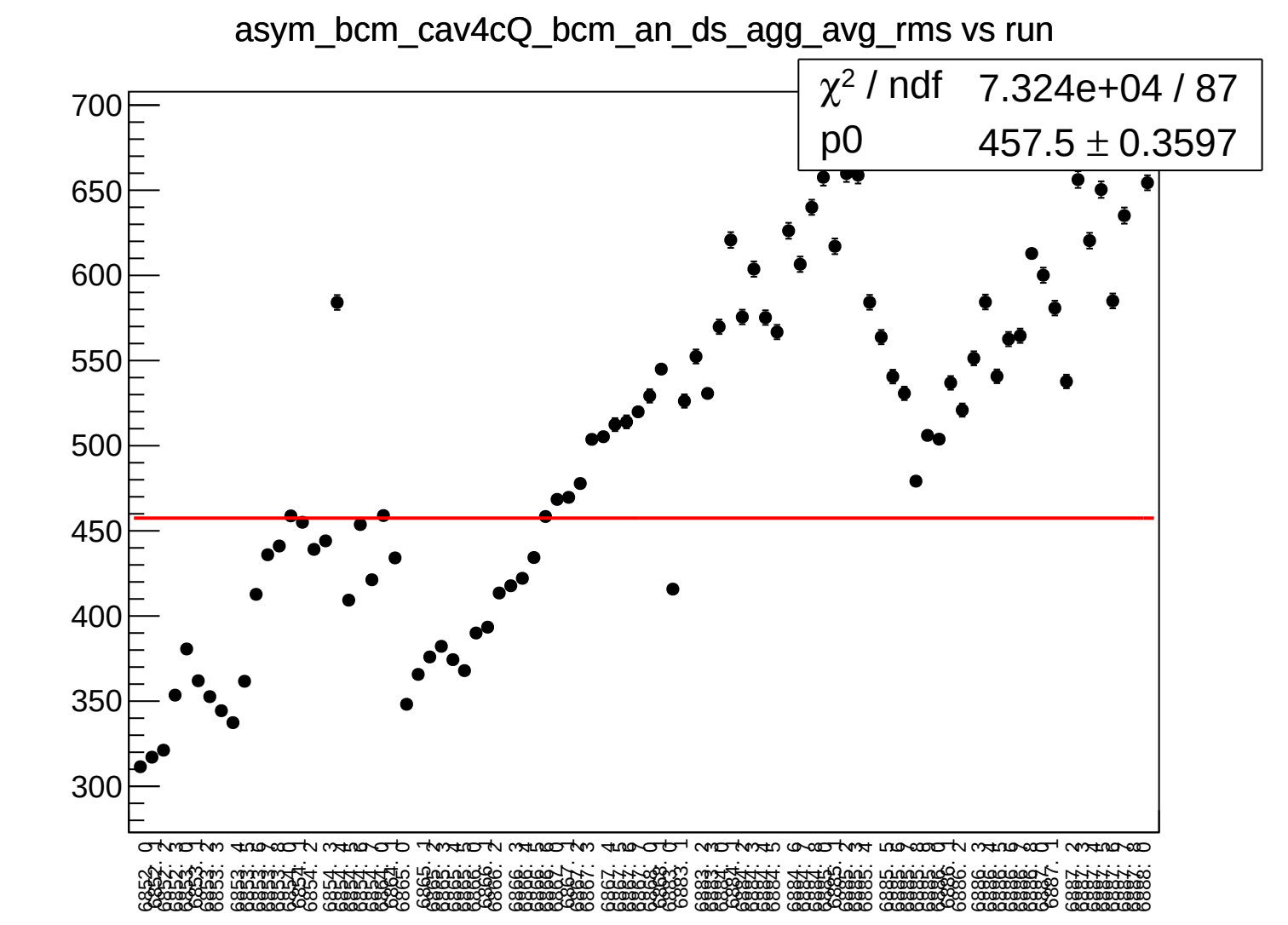

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7.326e+04 / 87
p0 458.7 ± 0.3607
700
650
600
550
500
450
400
350
300

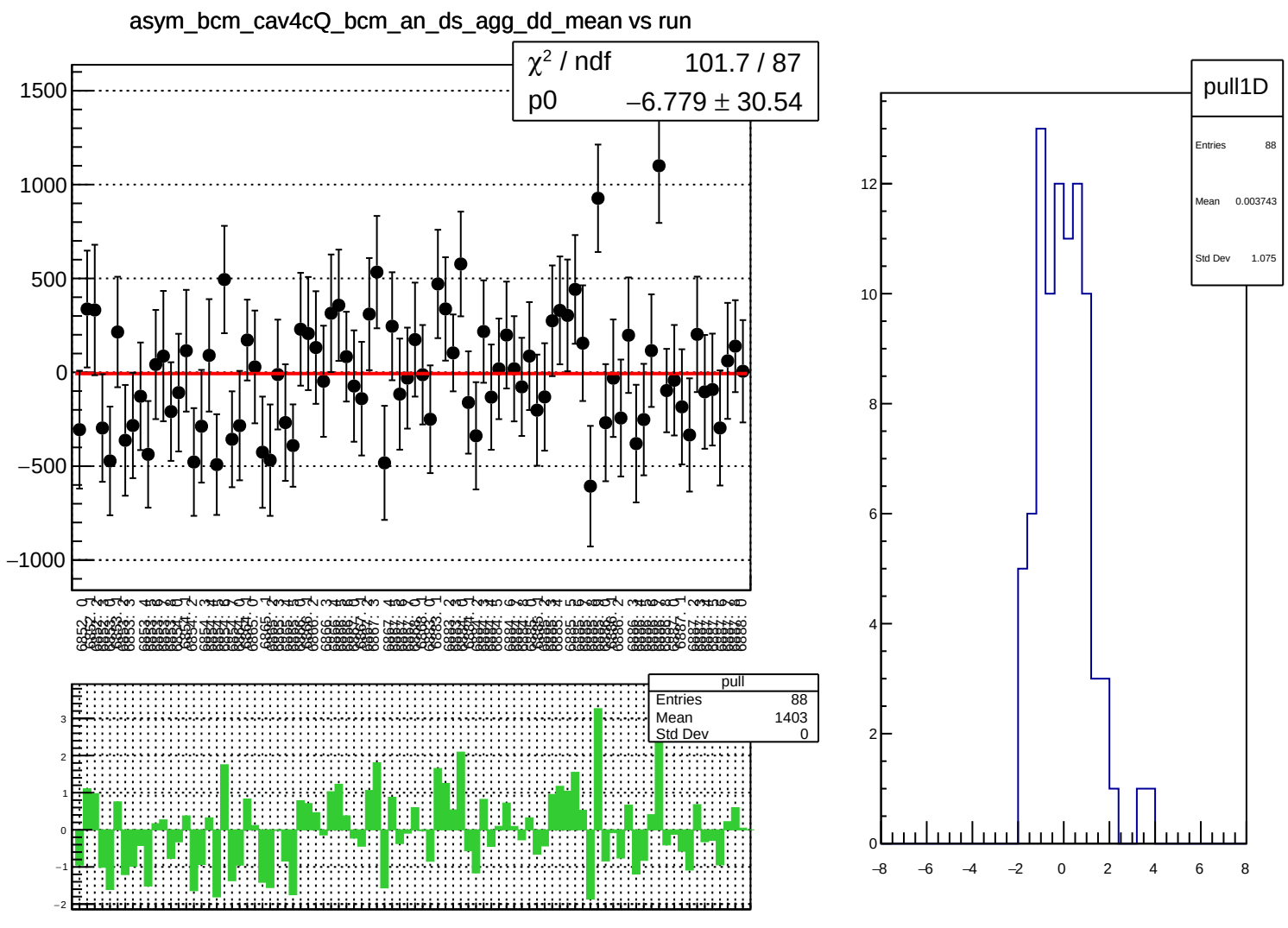

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 96.24 / 87
p0 −12.85 ± 30.47
1500
1000
500
0
−500
−1000
pull
Entries 88
Mean 687.8
Std Dev 0
3
2
1
0
−1
−2

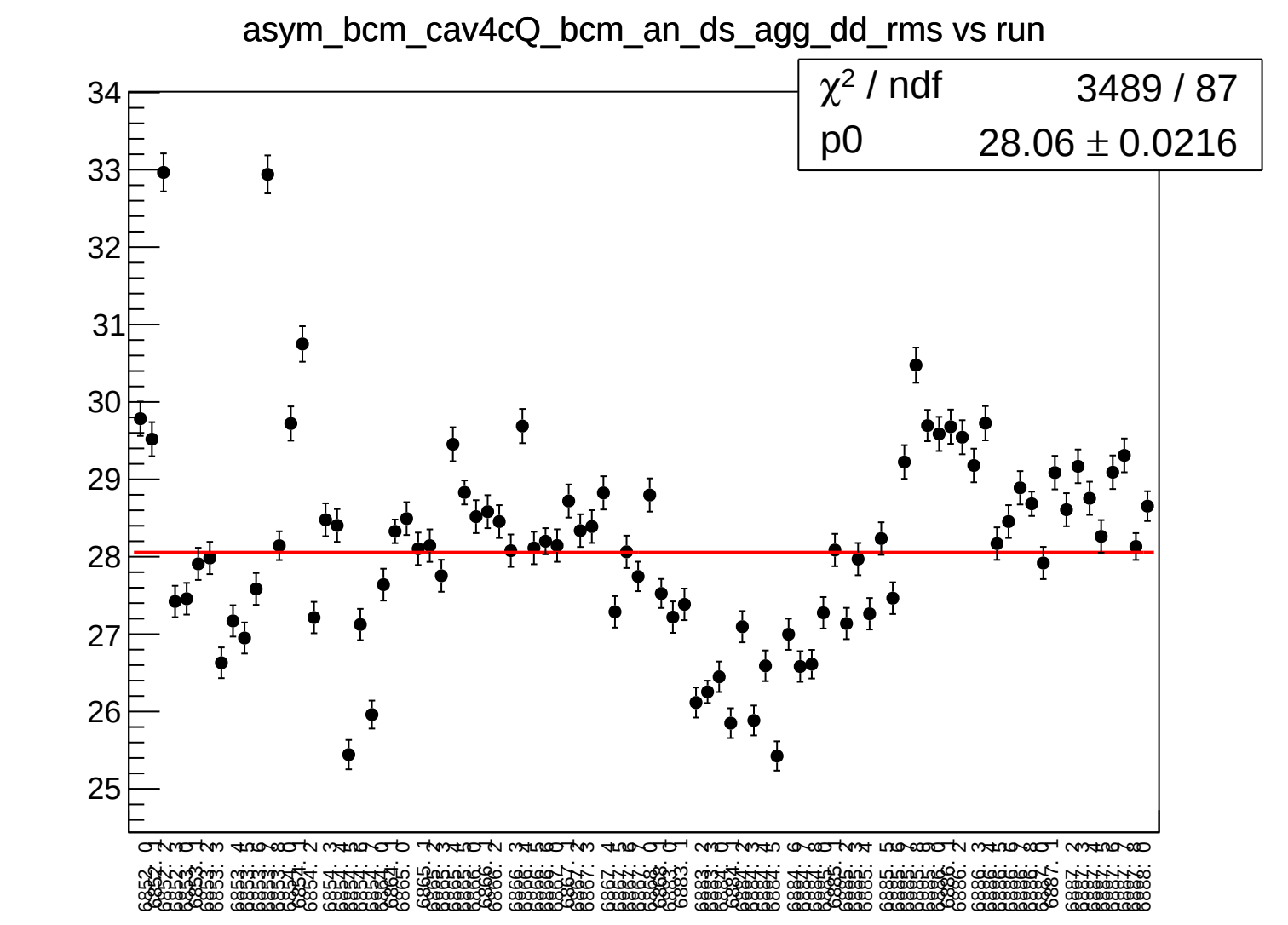

pull1D
Entries 88
Mean 0.006001
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

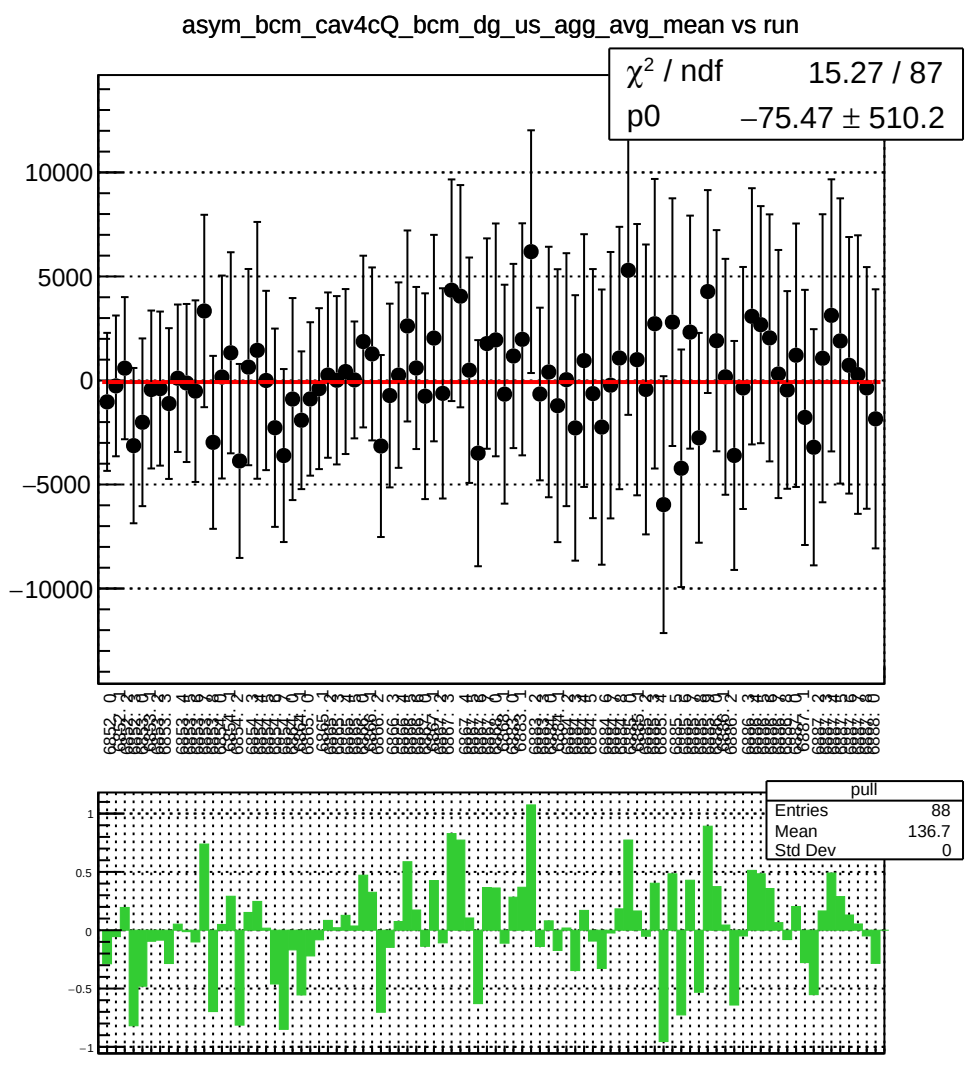

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3737 / 87
p0 27.99 ± 0.02155
33
32
31
30
29
28
27
26
25

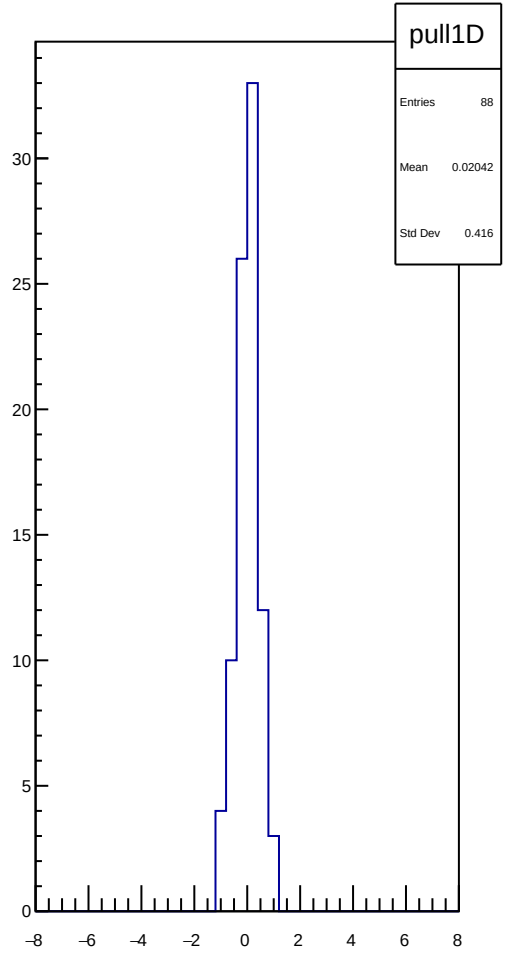

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.82 / 87
p0 −100.5 ± 508.7
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 137.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.02016
Std Dev 0.4099
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

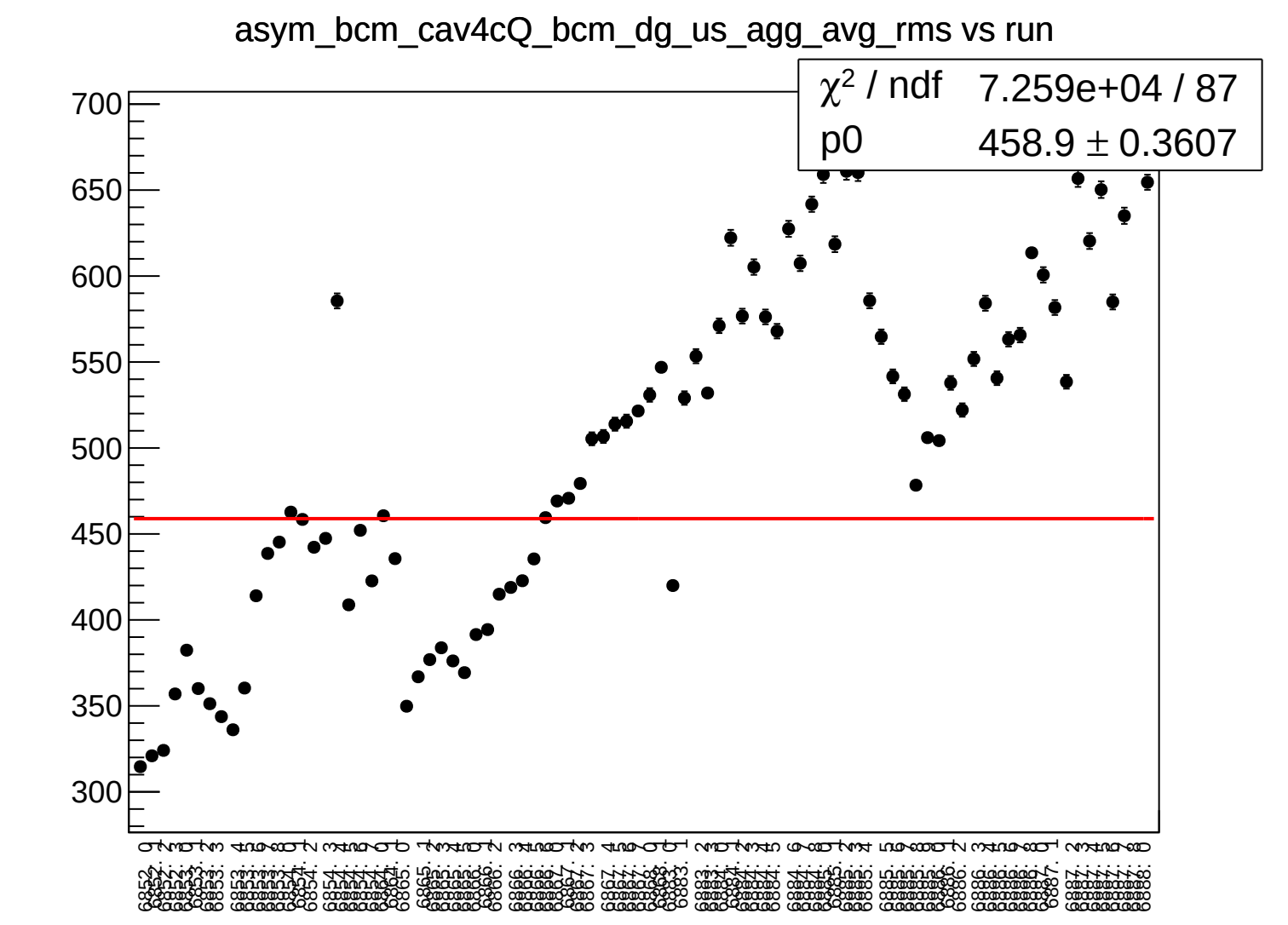

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7.324e+04 / 87
p0 457.5 ± 0.3597
700
650
600
550
500
450
400
350
300

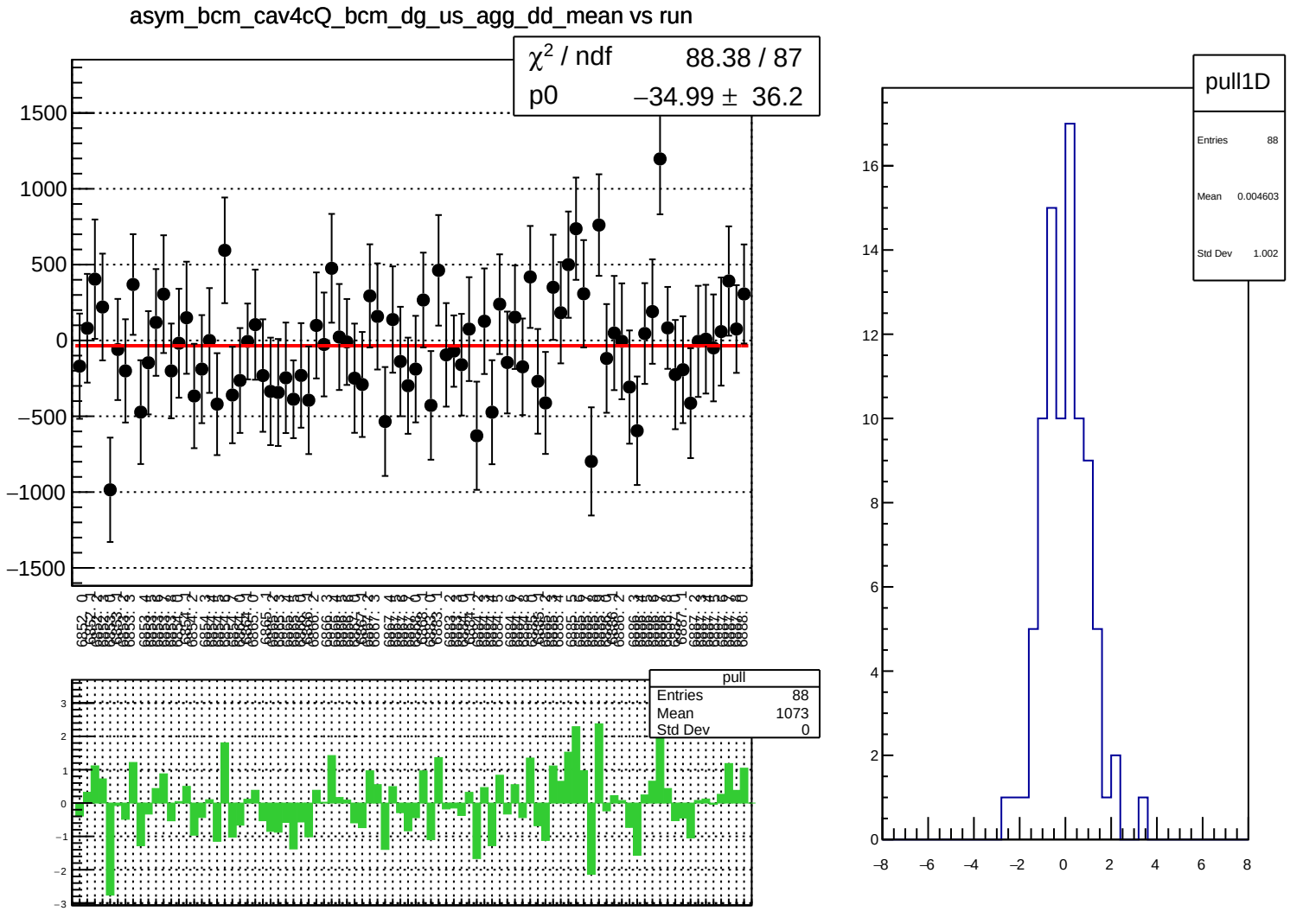

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 101.7 / 87
p0 −6.779 ± 30.54
1500
1000
500
0
−500
−1000
pull
Entries 88
Mean 1403
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.003743
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

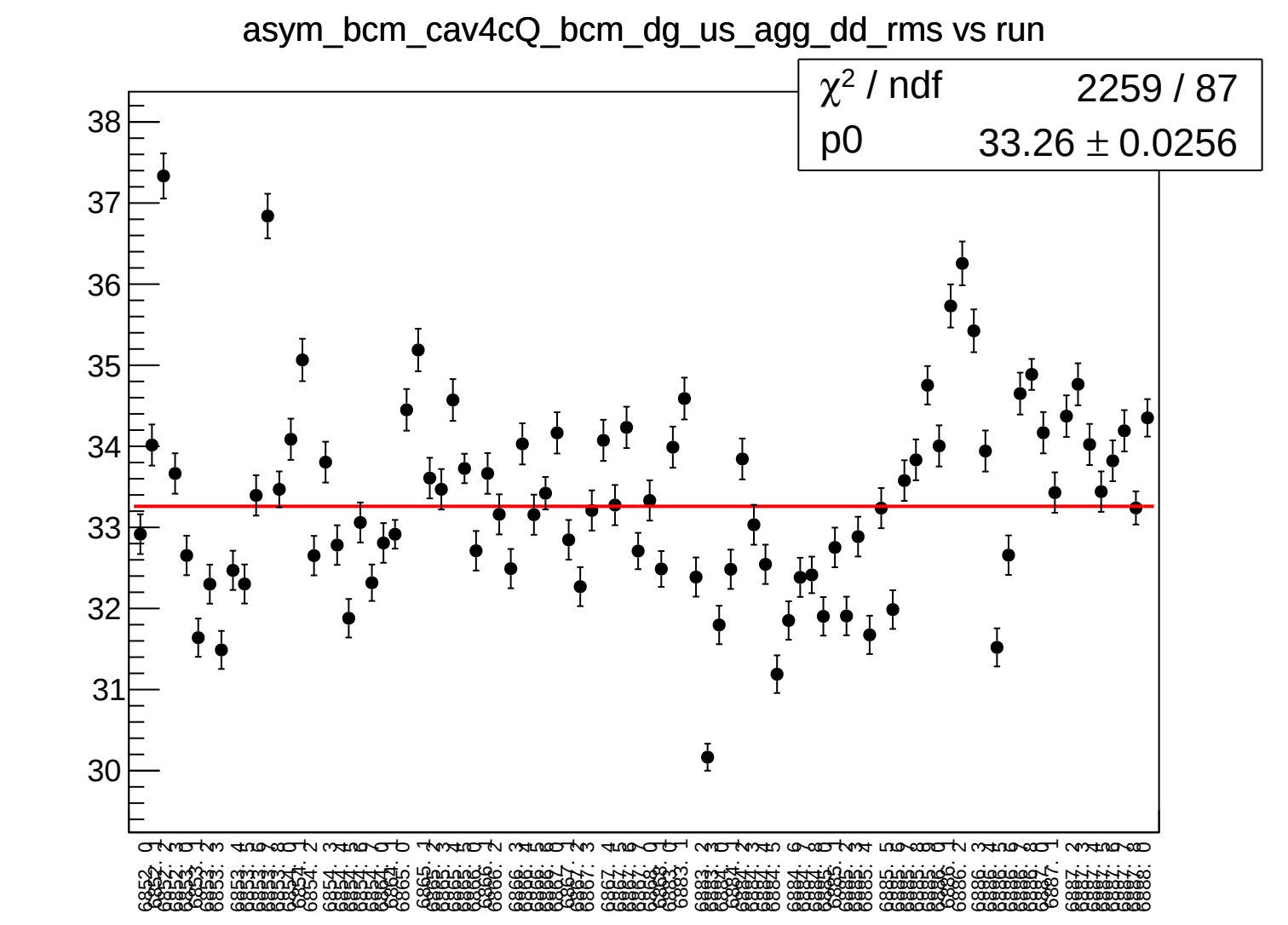

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3489 / 87
p0 28.06 ± 0.0216
34
33
32
31
30
29
28
27
26
25

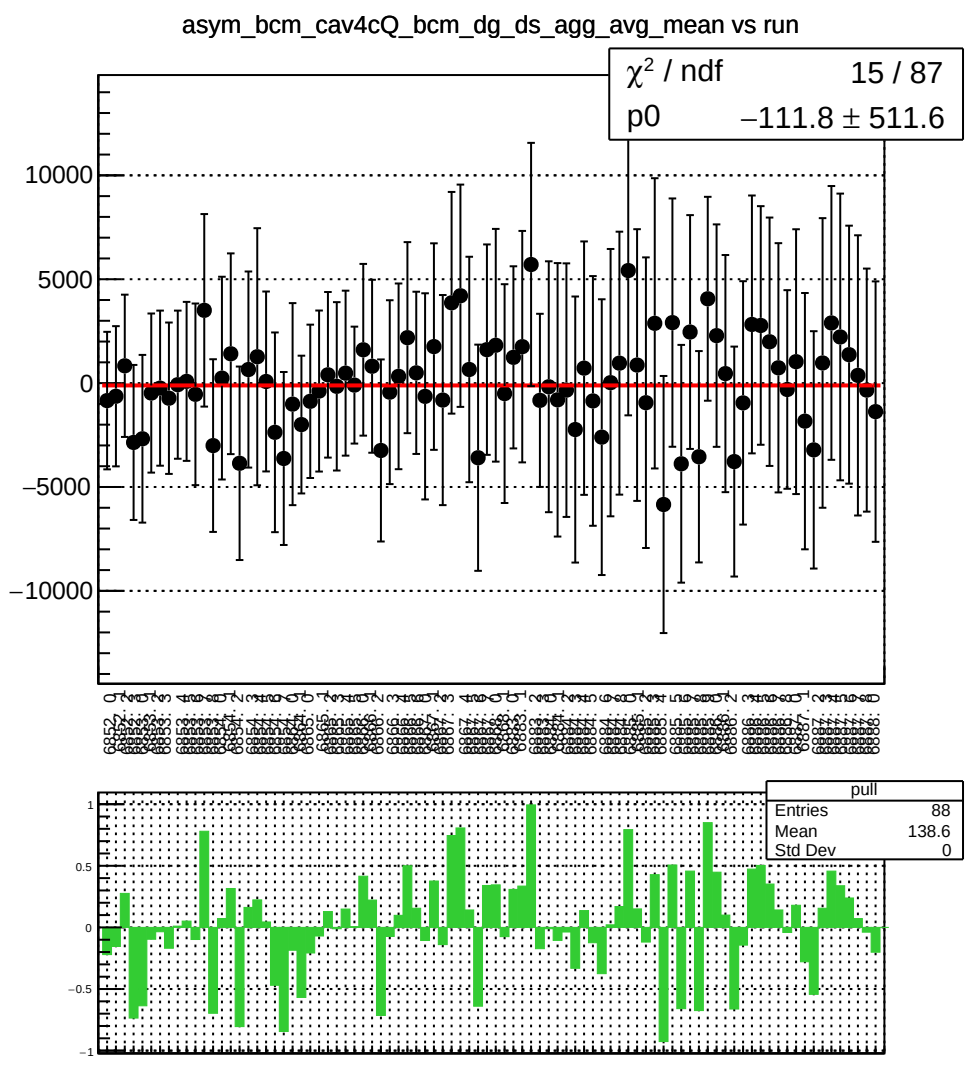

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 15.27 / 87
p0 −75.47 ± 510.2
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 136.7
Std Dev 0
1
0.5
0
−0.5
−1

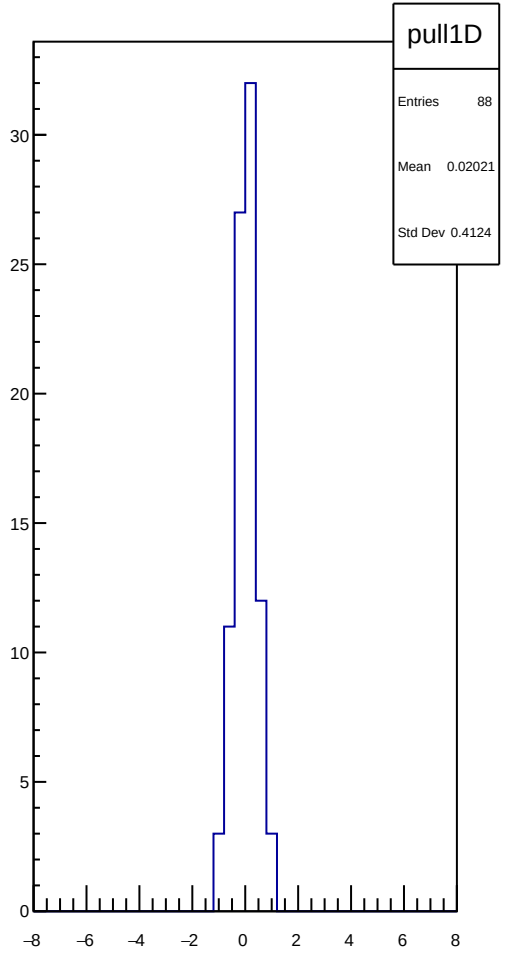

pull1D
Entries 88
Mean 0.02042
Std Dev 0.416
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

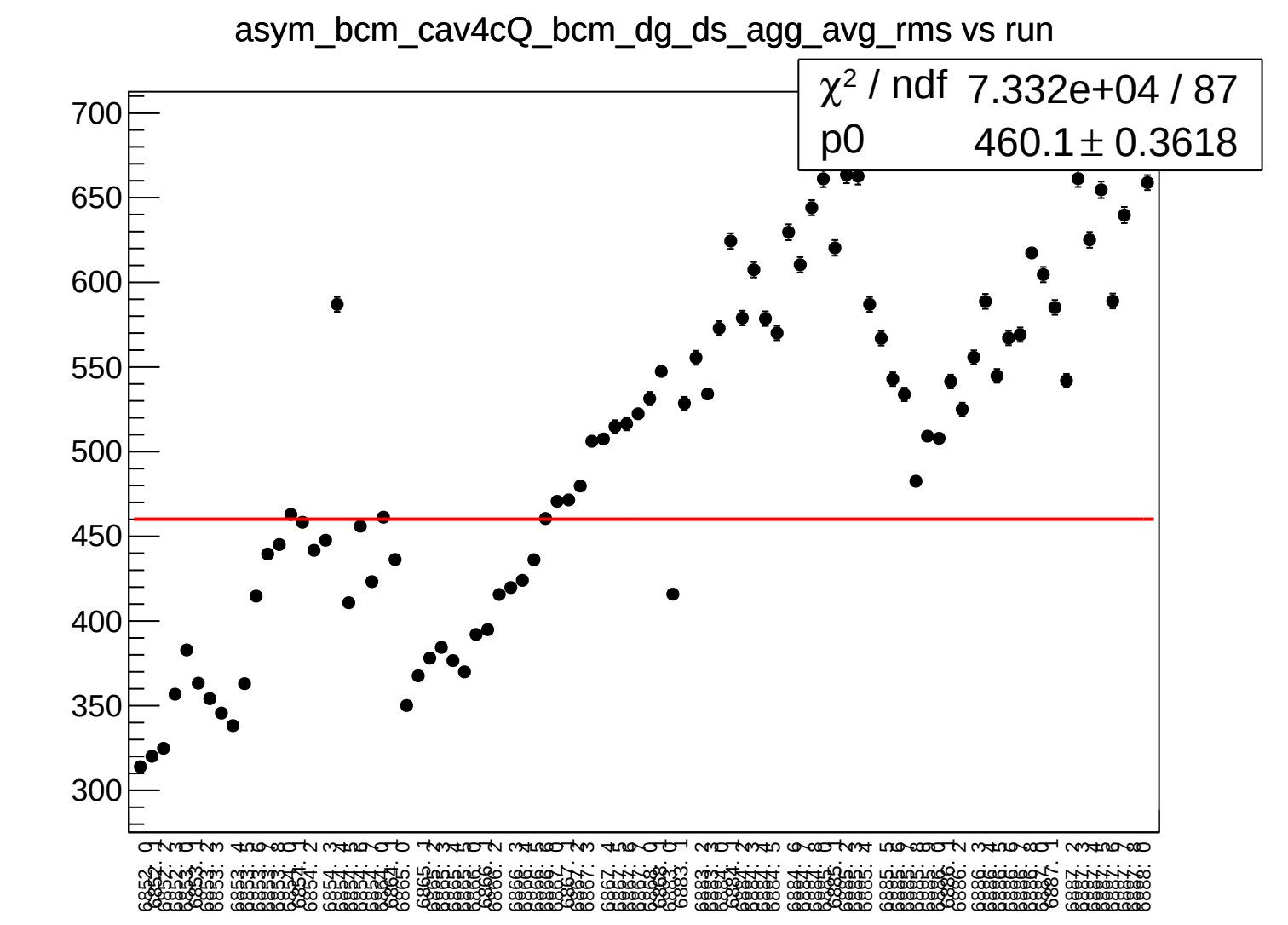

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 7.259e+04 / 87
p0 458.9 ± 0.3607
700
650
600
550
500
450
400
350
300

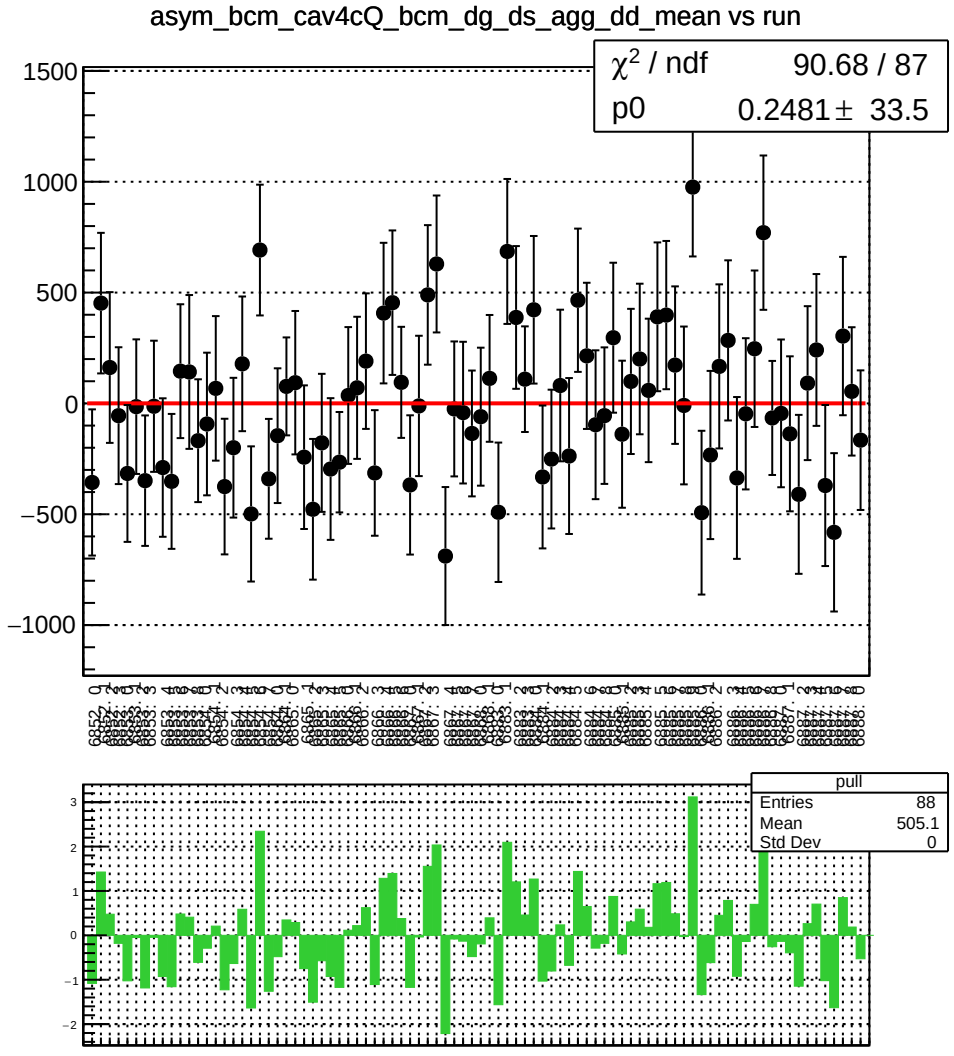

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 88.38 / 87
p0 −34.99 ± 36.2
1500
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean 1073
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.004603
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

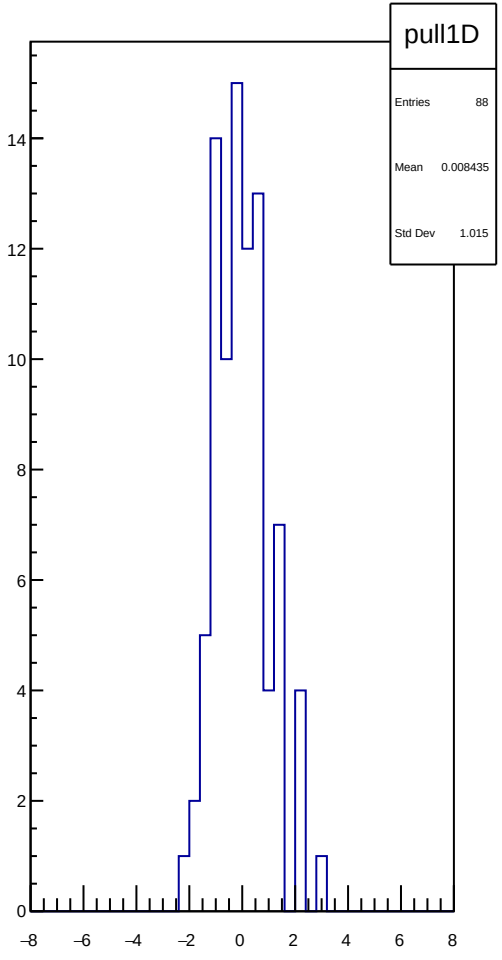

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2259 / 87
p0 33.26 ± 0.0256
38
37
36
35
34
33
32
31
30

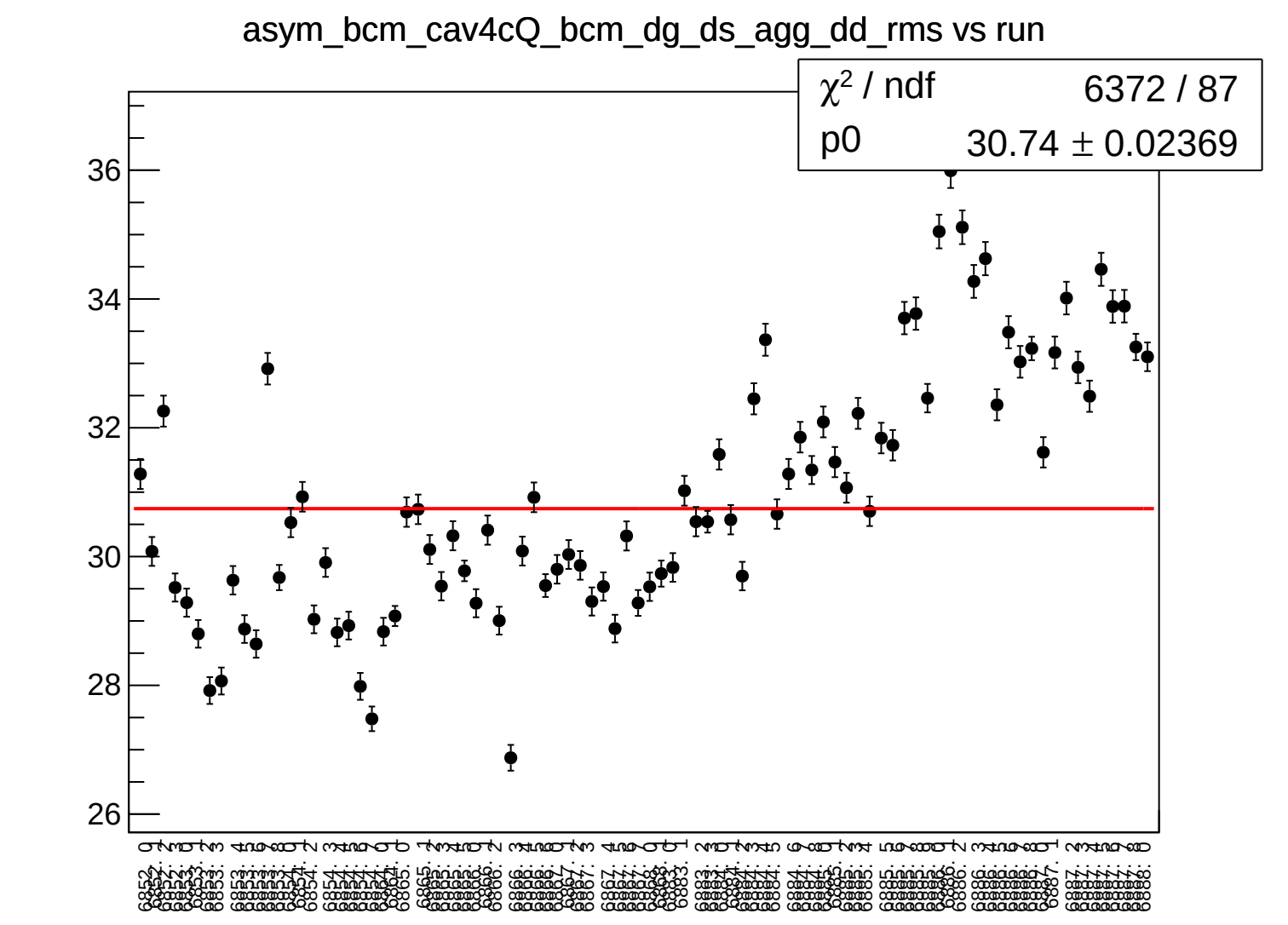

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 15 / 87
p0 −111.8 ± 511.6
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 138.6
Std Dev 0
1
0.5
0
−0.5
−1

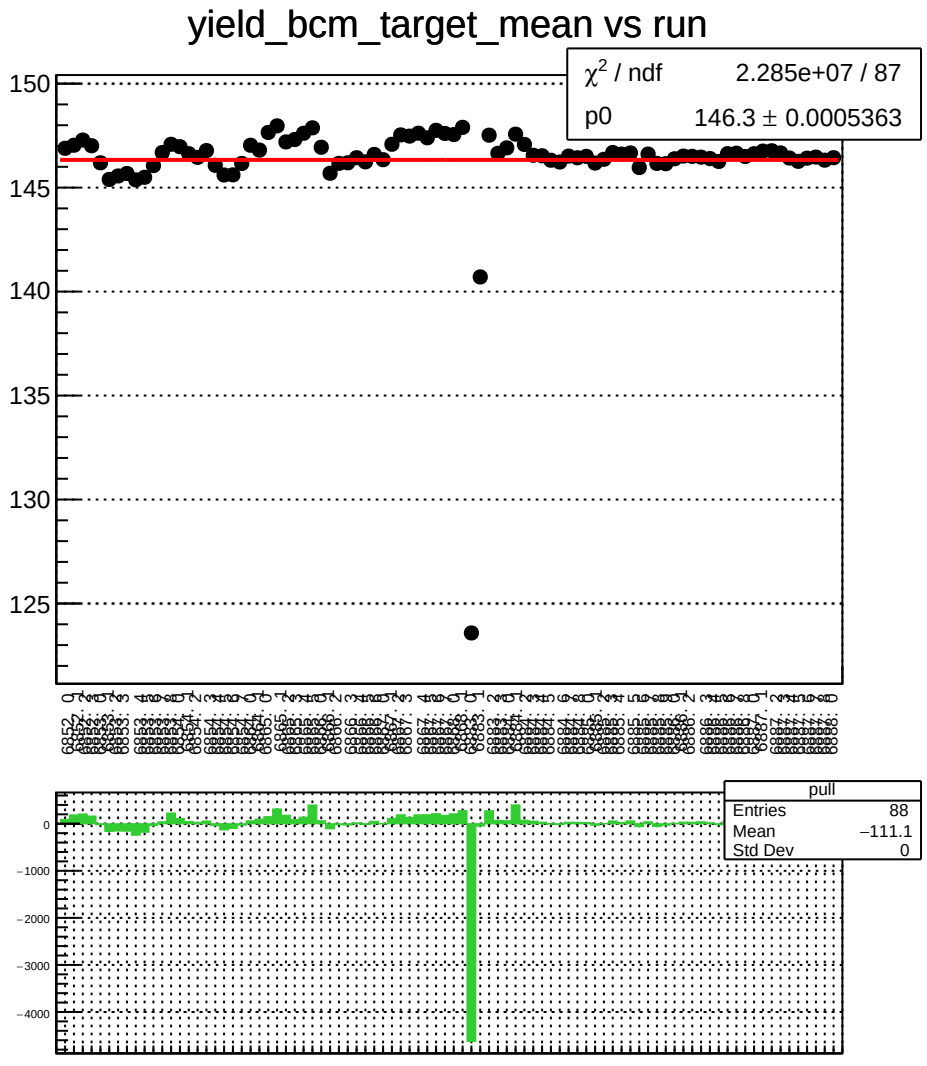

pull1D
Entries 88
Mean 0.02021
Std Dev 0.4124
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

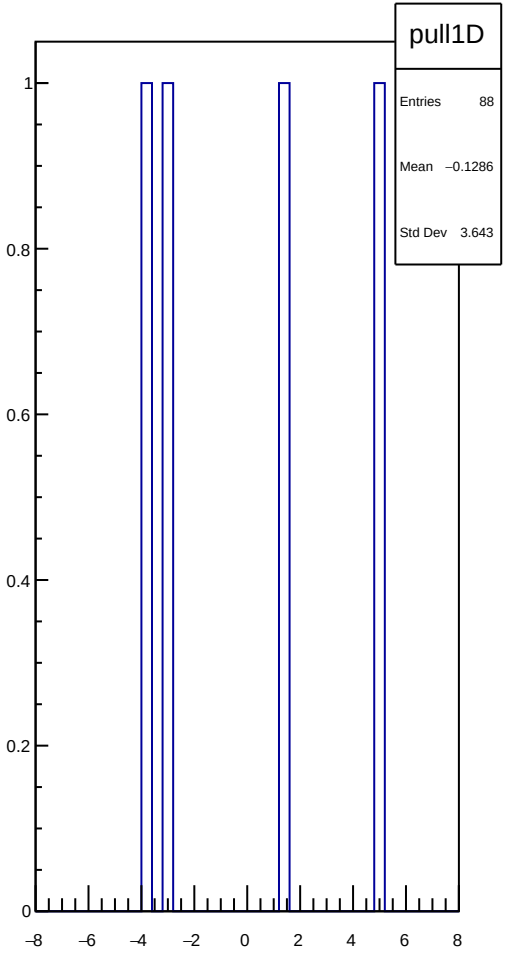

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 7.332e+04 / 87
p0 460.1 ± 0.3618
700
650
600
550
500
450
400
350
300

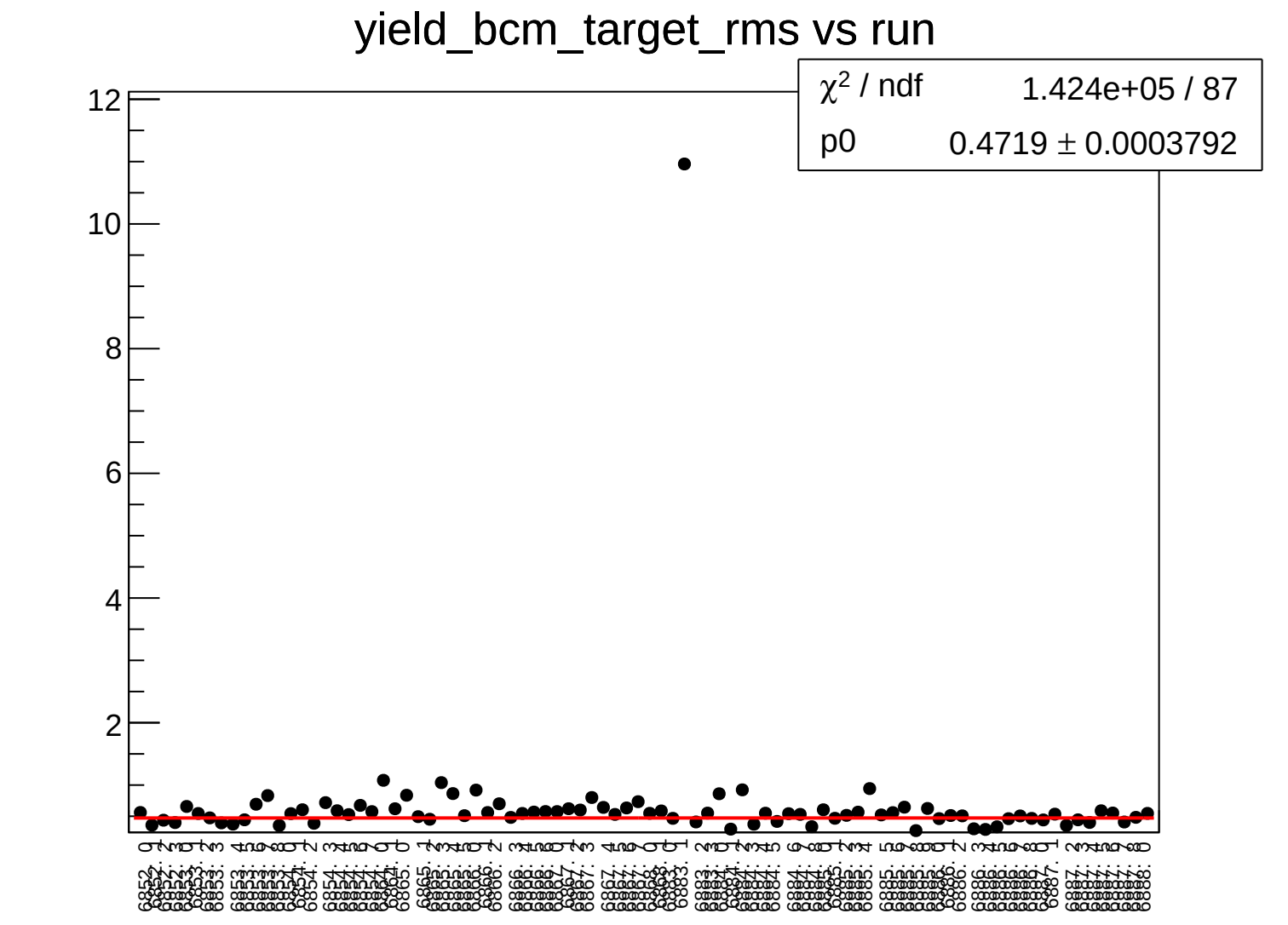

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 90.68 / 87
p0 0.2481 ± 33.5
1500
1000
500
0
−500
−1000
pull
Entries 88
Mean 505.1
Std Dev 0
3
2
1
0
−1
−2

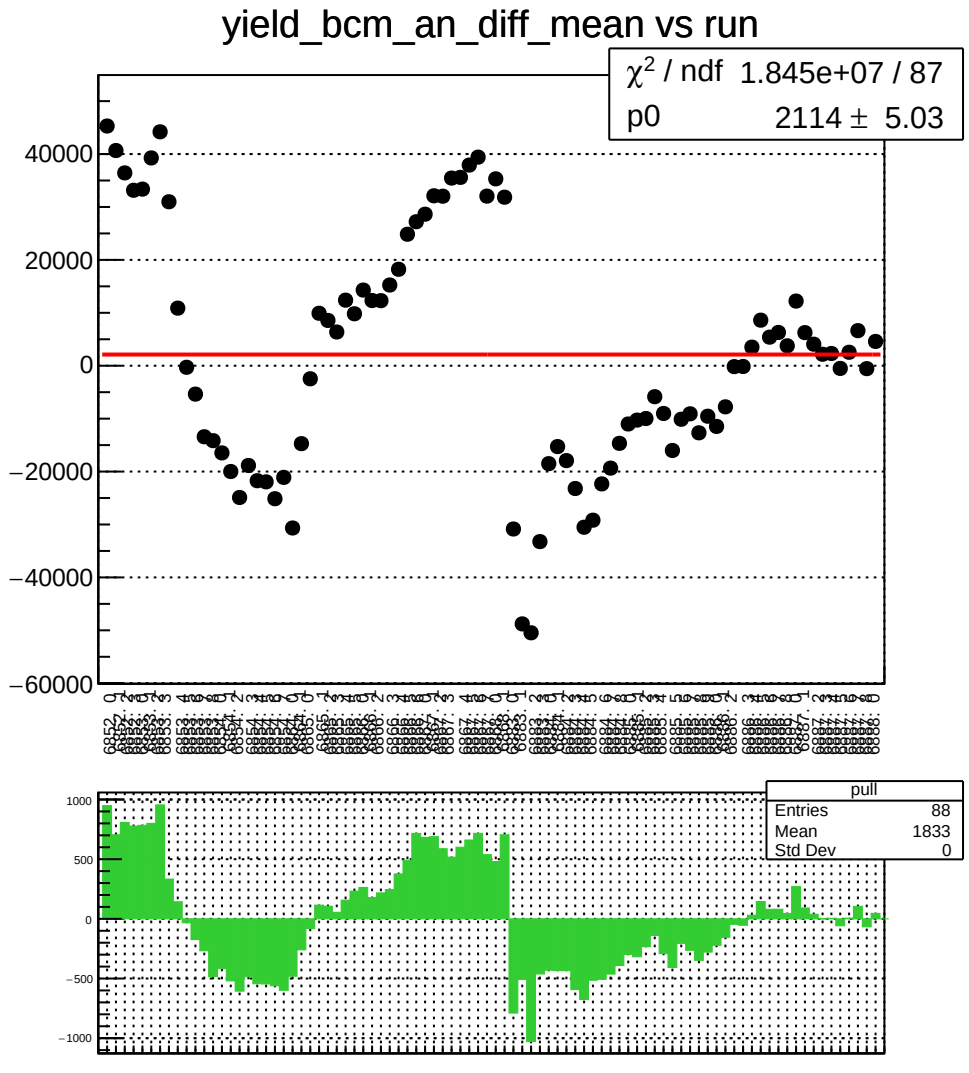

pull1D
Entries 88
Mean 0.008435
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

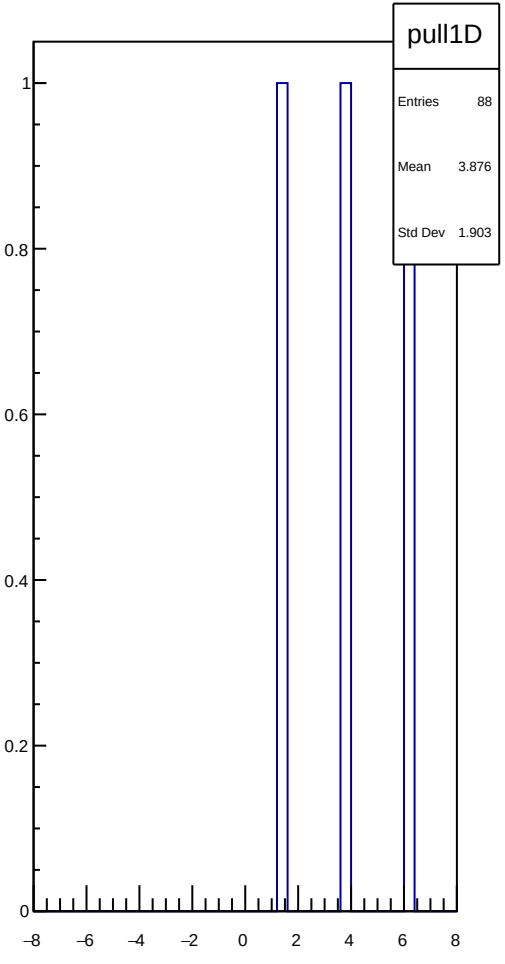

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 6372 / 87
p0 30.74 ± 0.02369
36
34
32
30
28
26

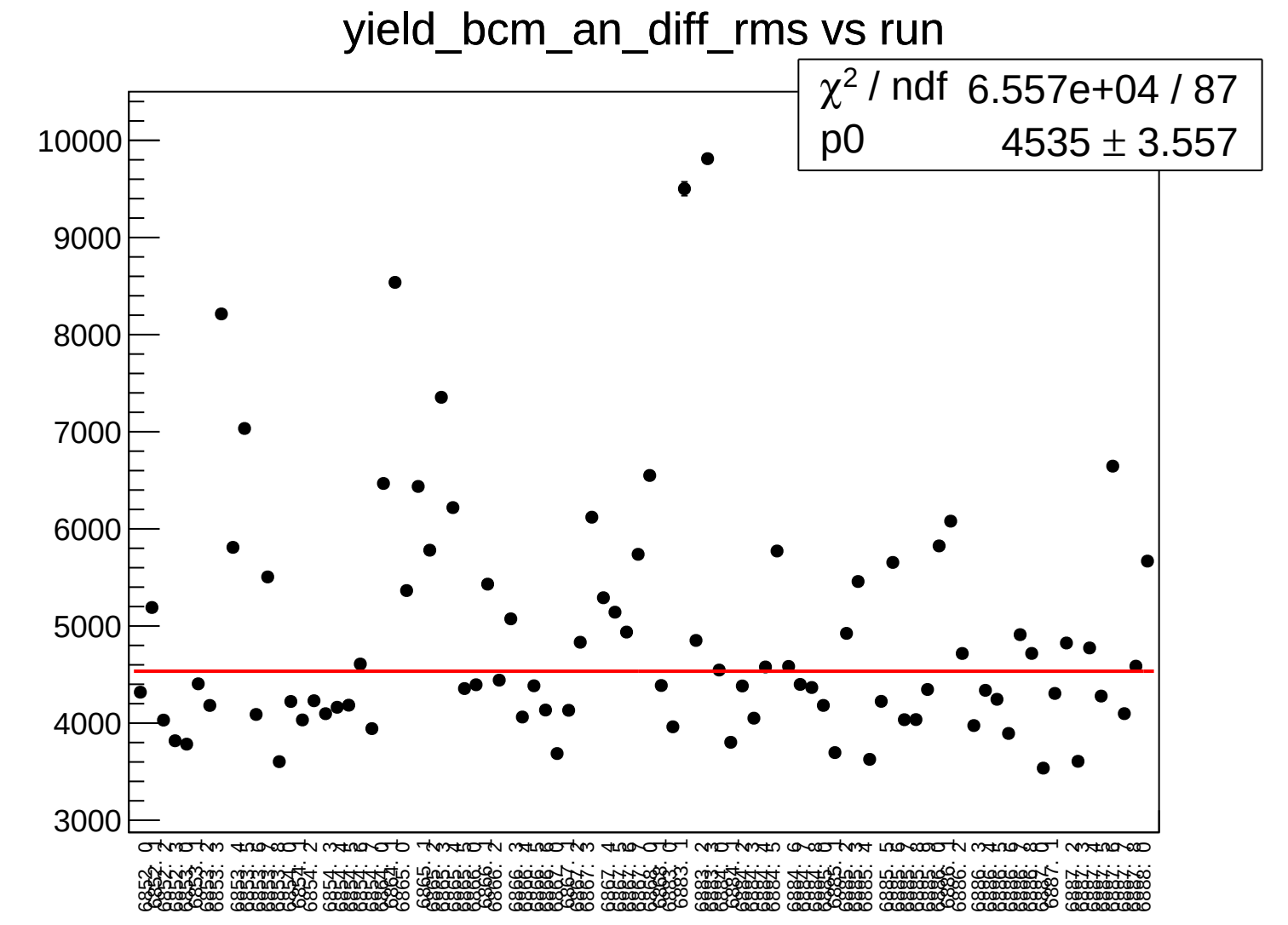

yield_bcm_target_mean vs run
χ² / ndf 2.285e+07 / 87
p0 146.3 ± 0.0005363
150
145
140
135
130
125
pull
Entries 88
Mean −111.1
Std Dev 0
0
−1000
−2000
−3000
−4000

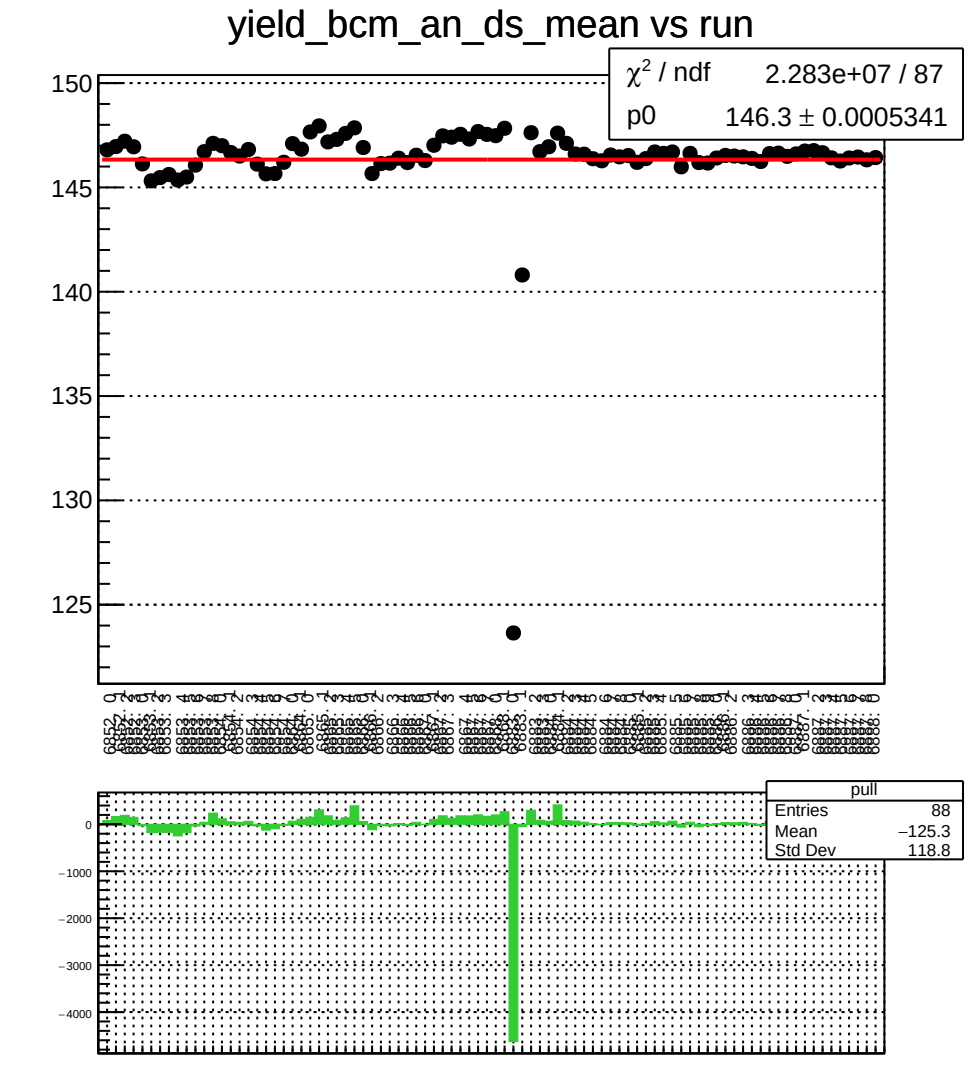

pull1D
Entries 88
Mean −0.1286
Std Dev 3.643
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

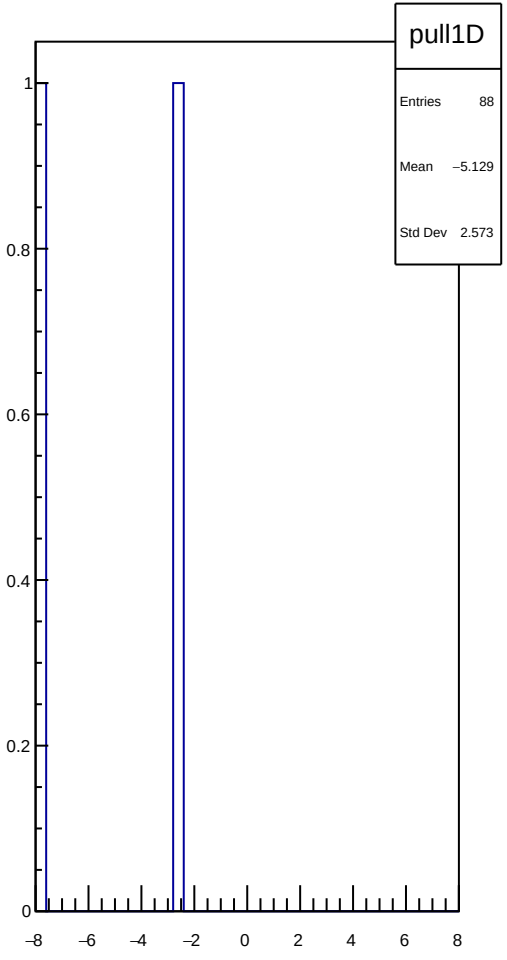

yield_bcm_target_rms vs run
χ² / ndf 1.424e+05 / 87
p0 0.4719 ± 0.0003792
12
10
8
6
4
2

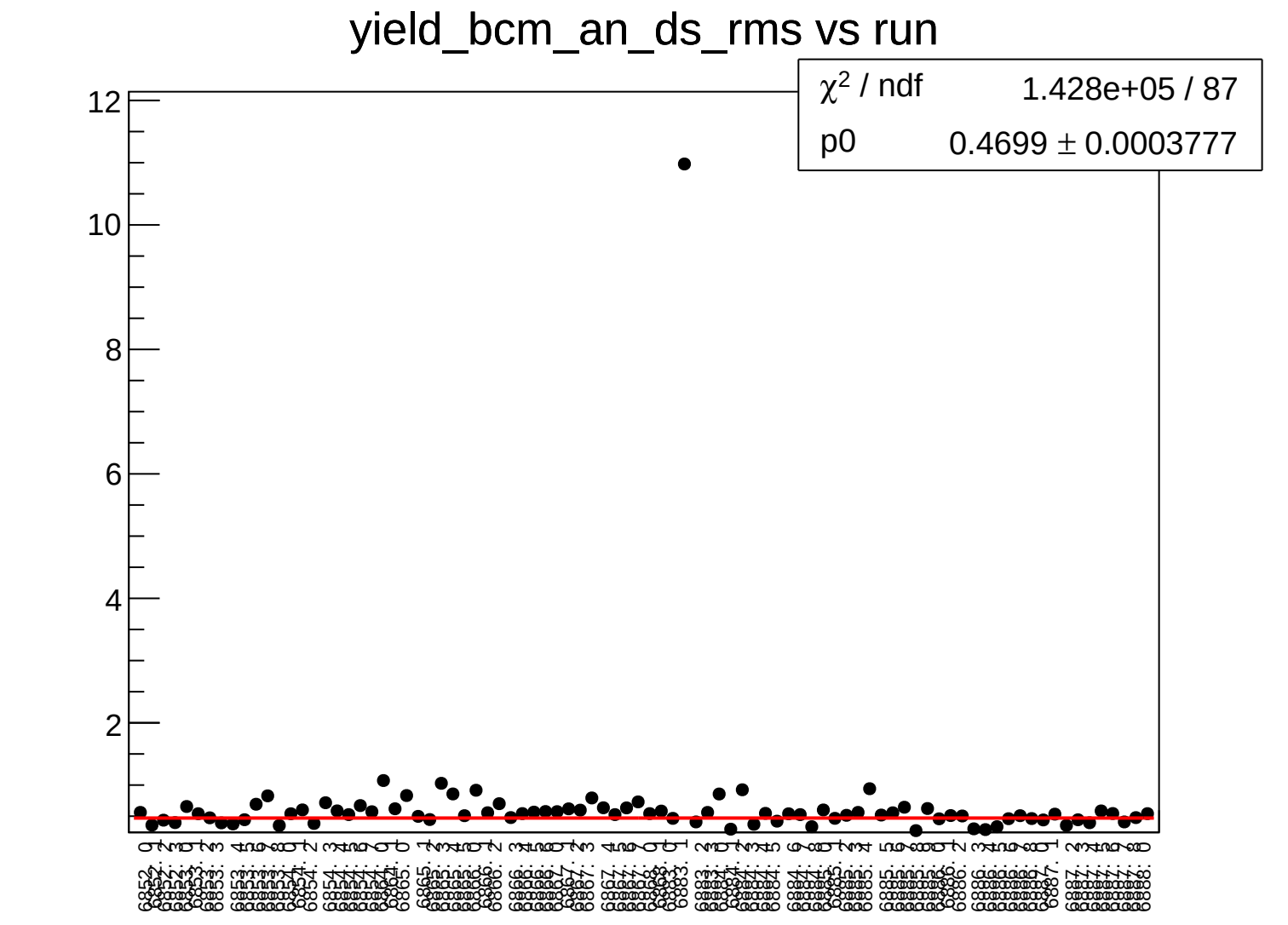

yield_bcm_an_diff_mean vs run
χ² / ndf 1.845e+07 / 87
p0 2114 ± 5.03
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 1833
Std Dev 0
1000
500
0
−500
−1000

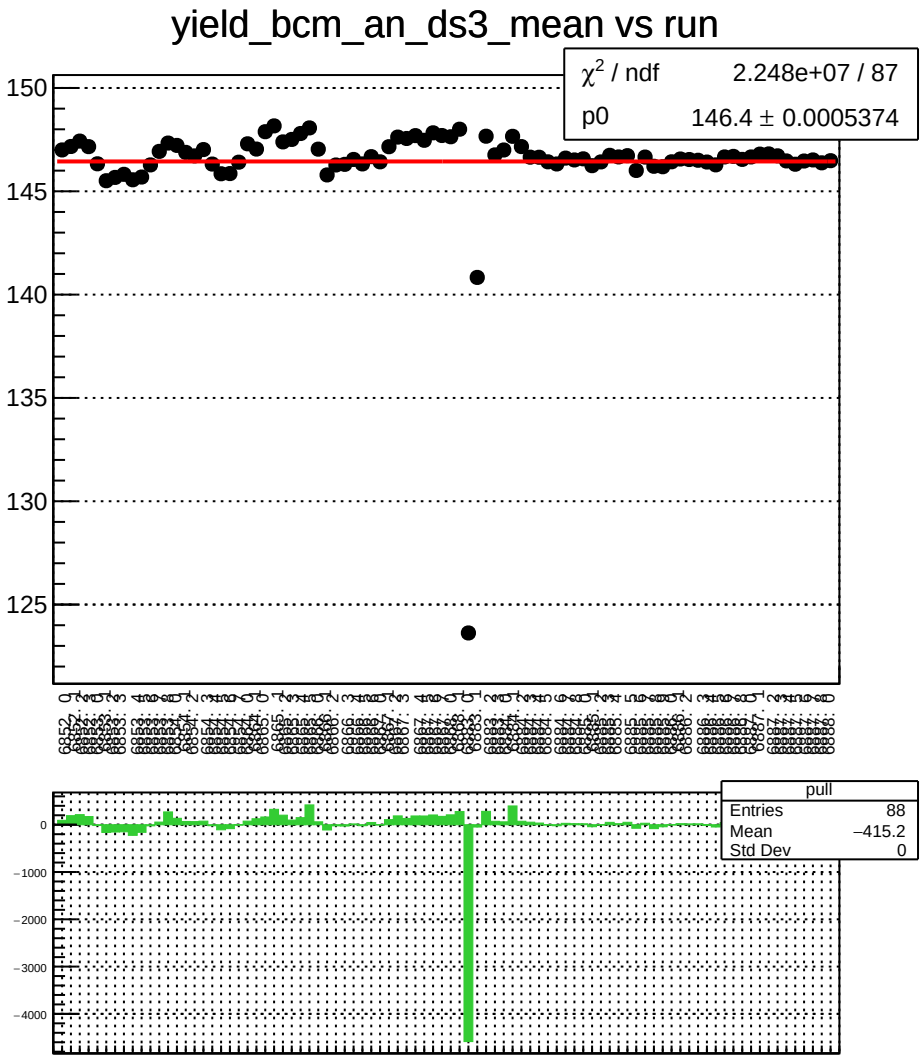

pull1D
Entries 88
Mean 3.876
Std Dev 1.903
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

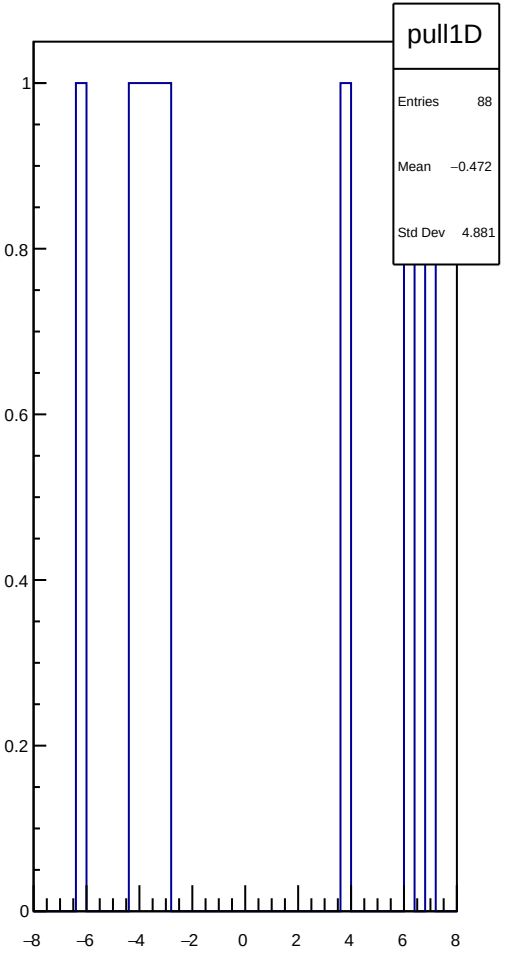

yield_bcm_an_diff_rms vs run
χ² / ndf 6.557e+04 / 87
p0 4535 ± 3.557
10000
9000
8000
7000
6000
5000
4000
3000

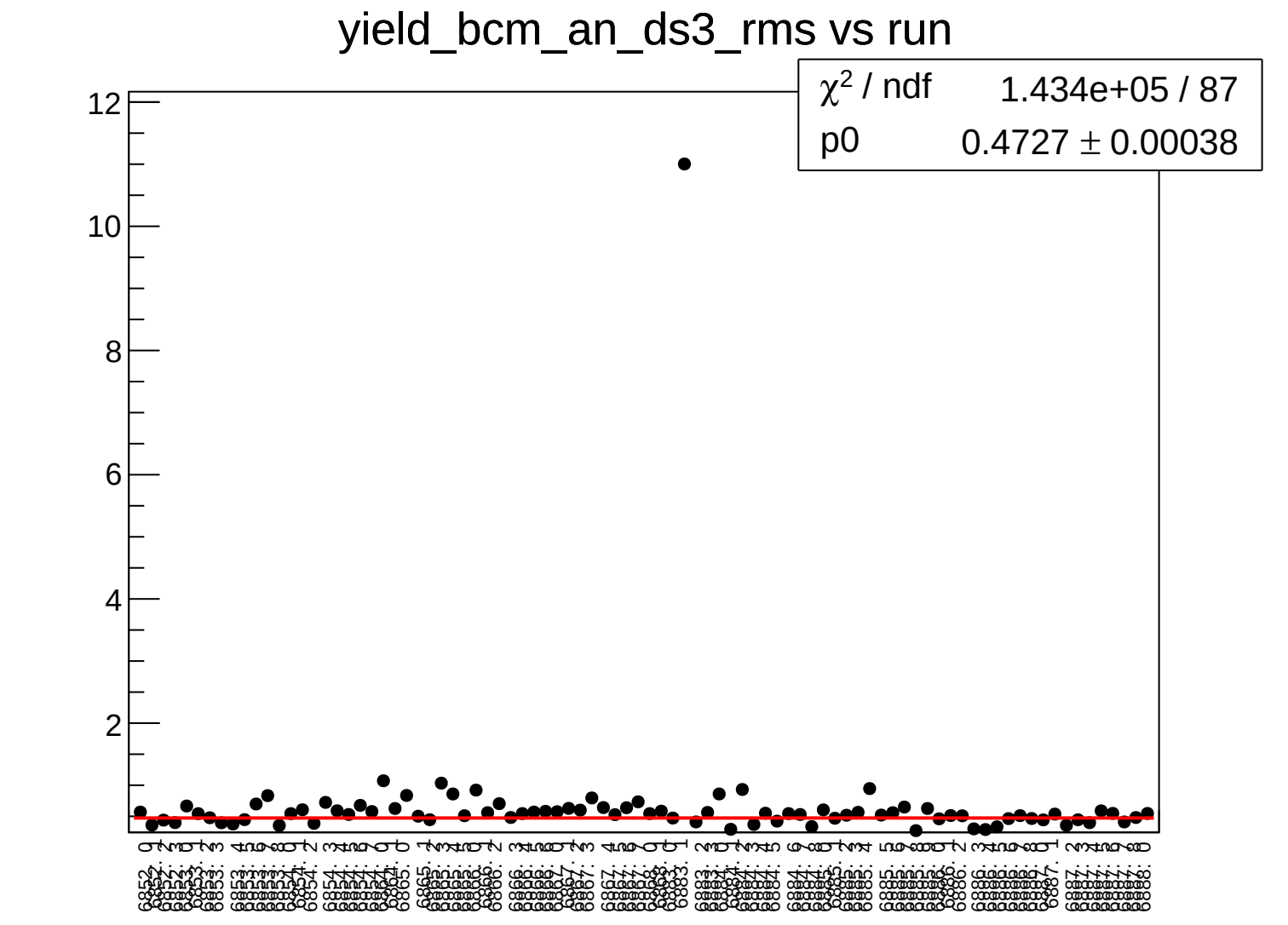

yield_bcm_an_ds_mean vs run
χ² / ndf 2.283e+07 / 87
p0 146.3 ± 0.0005341
150
145
140
135
130
125
pull
Entries 88
Mean −125.3
Std Dev 118.8
0
−1000
−2000
−3000
−4000

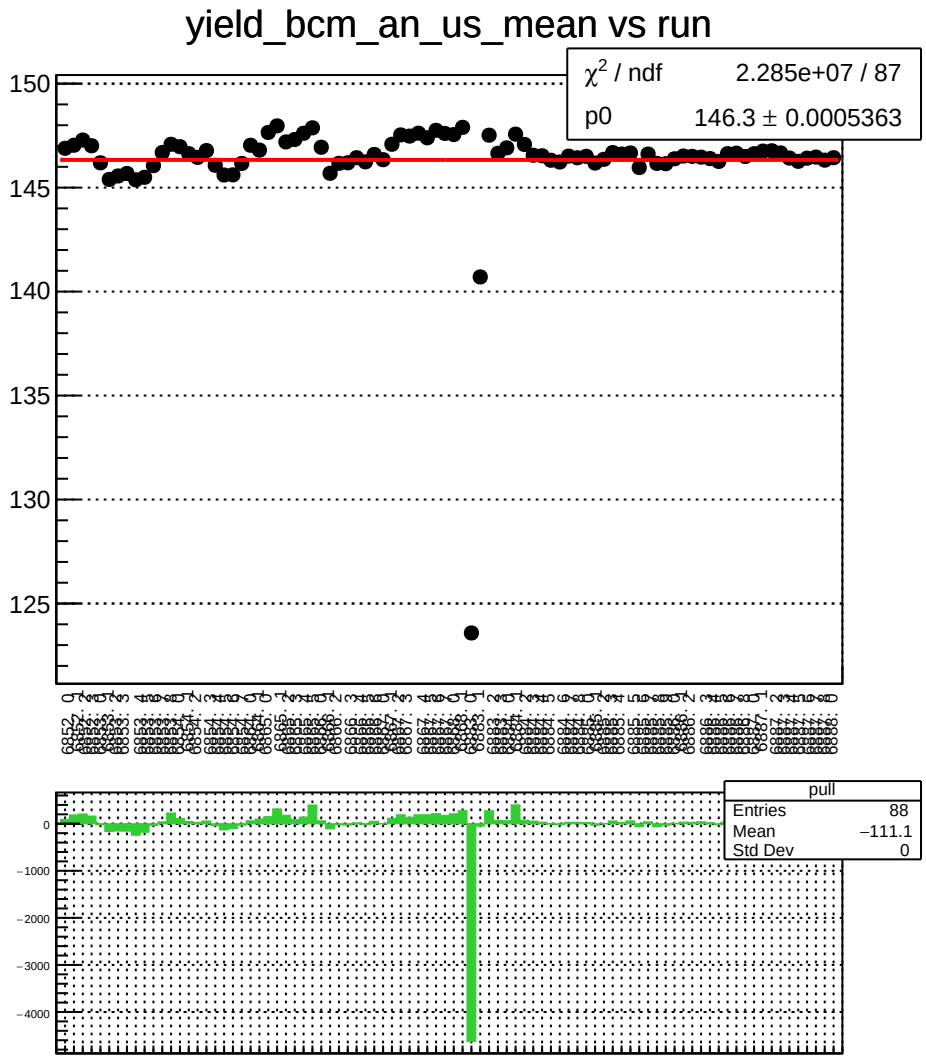

pull1D
Entries 88
Mean −5.129
Std Dev 2.573
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

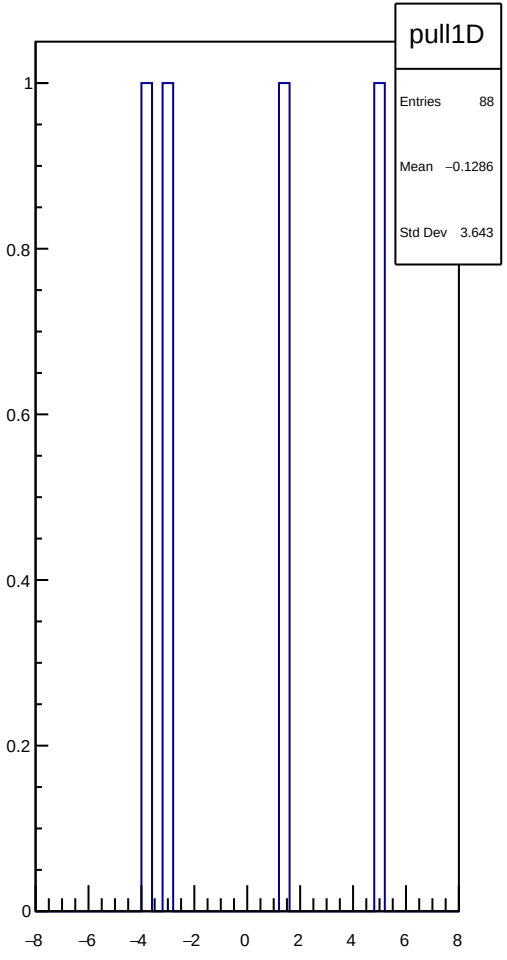

yield_bcm_an_ds_rms vs run
χ² / ndf 1.428e+05 / 87
p0 0.4699 ± 0.0003777
12
10
8
6
4
2

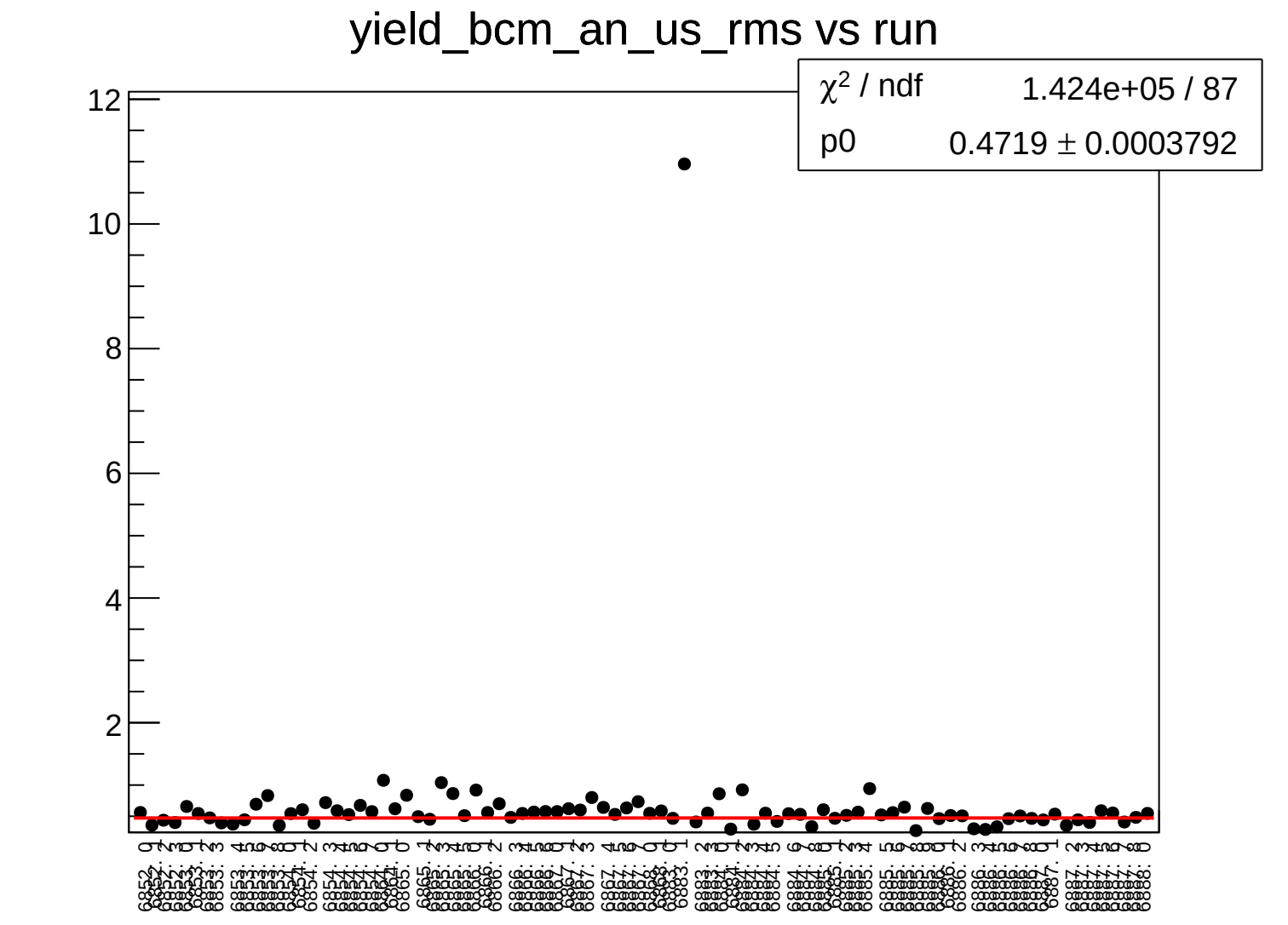

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.248e+07 / 87
p0 146.4 ± 0.0005374
150
145
140
135
130
125
pull
Entries 88
Mean −415.2
Std Dev 0
0
−1000
−2000
−3000
−4000

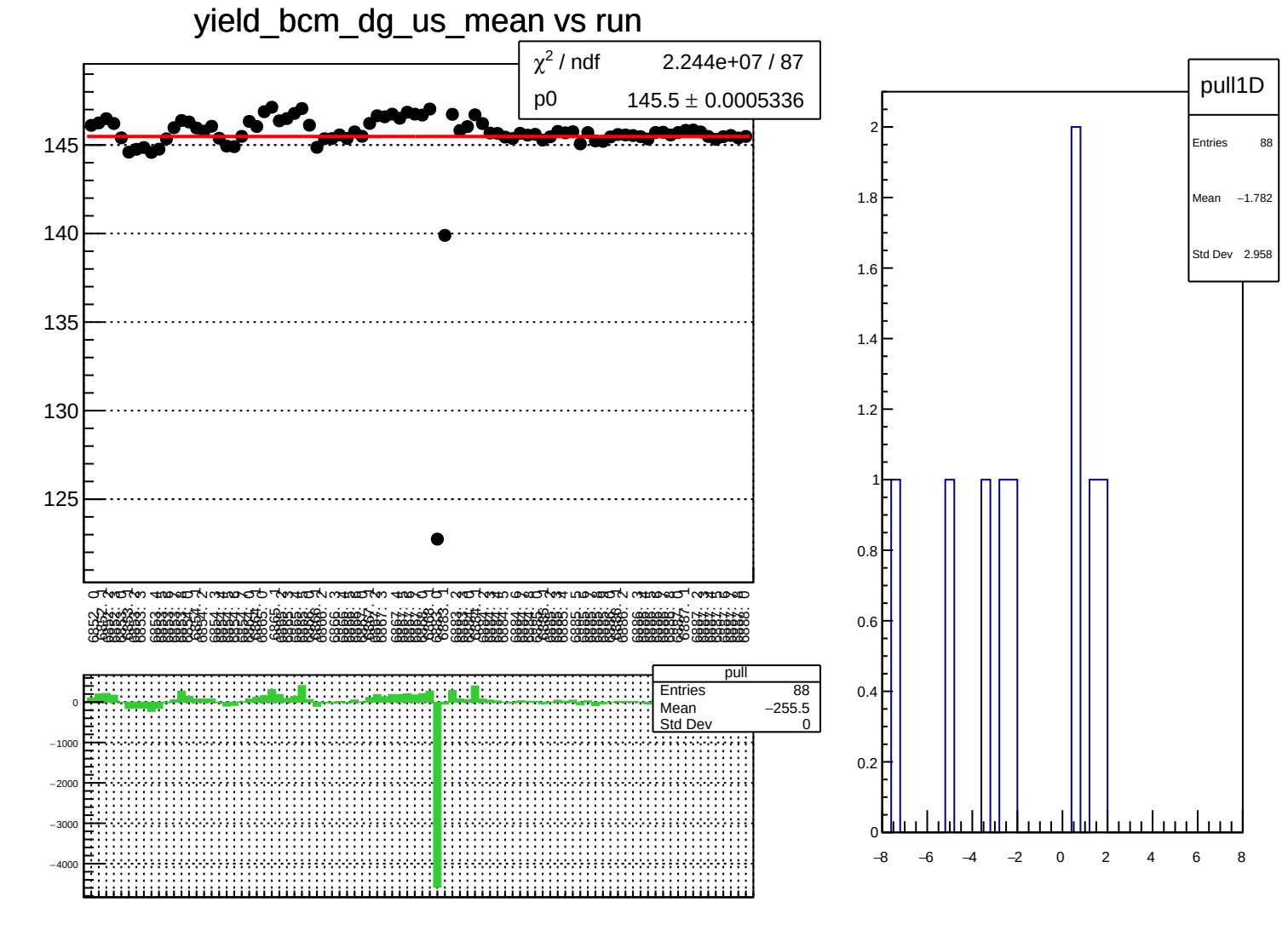

pull1D
Entries 88
Mean −0.472
Std Dev 4.881
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

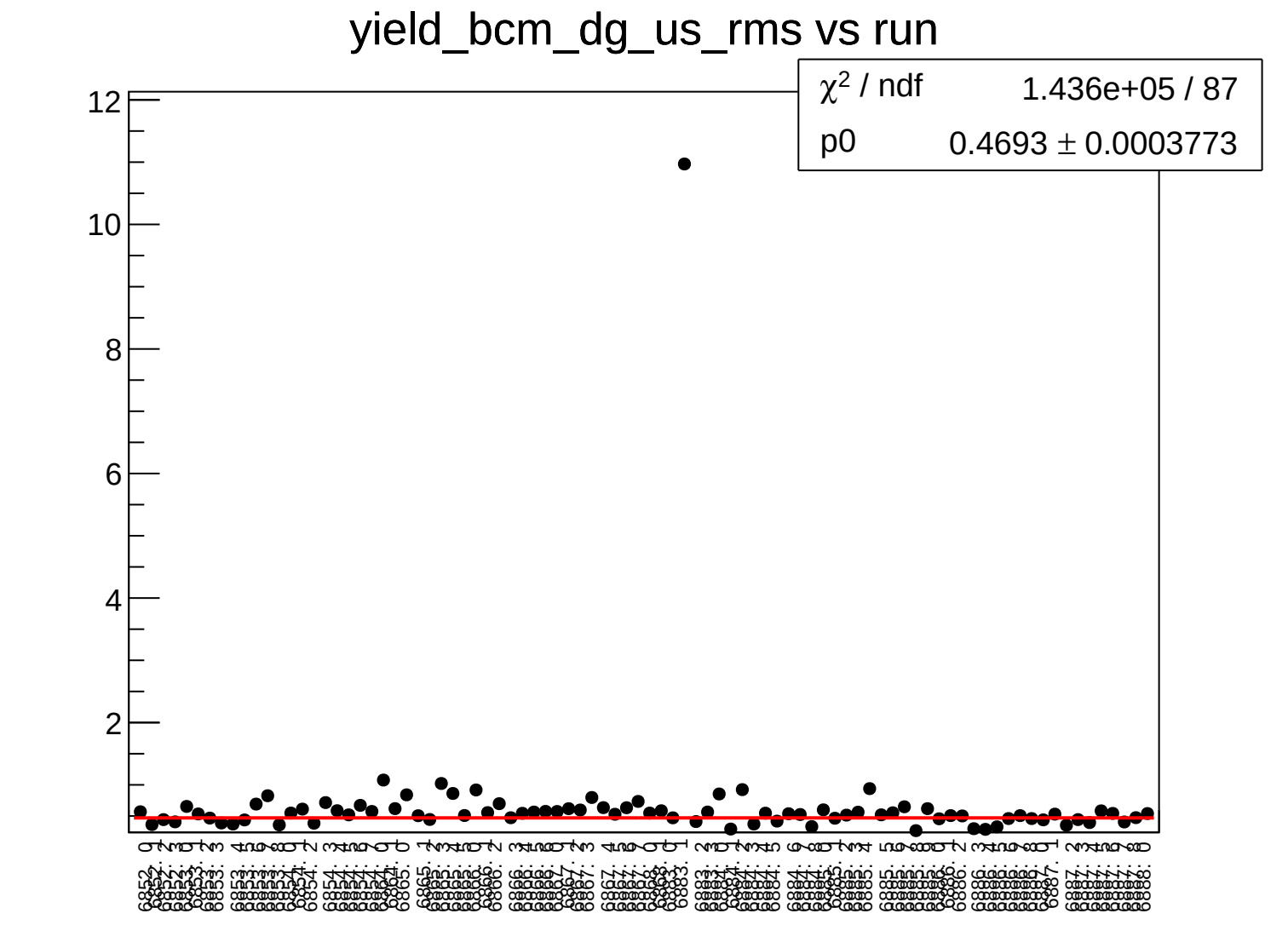

yield_bcm_an_ds3_rms vs run
χ^2 / ndf 1.434e+05 / 87
p0 0.4727 ± 0.00038
12
10
8
6
4
2

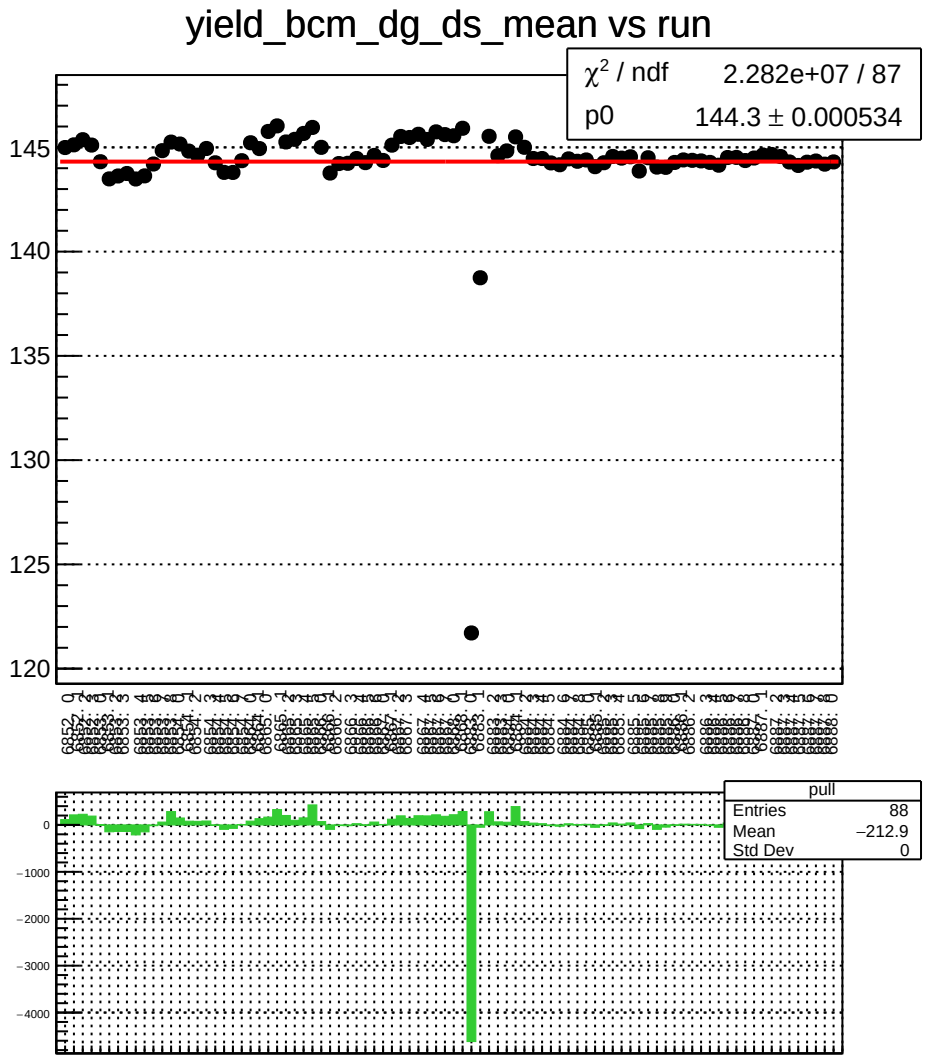

yield_bcm_an_us_mean vs run
χ² / ndf 2.285e+07 / 87
p0 146.3 ± 0.0005363
150
145
140
135
130
125
pull
Entries 88
Mean −111.1
Std Dev 0
0
−1000
−2000
−3000
−4000

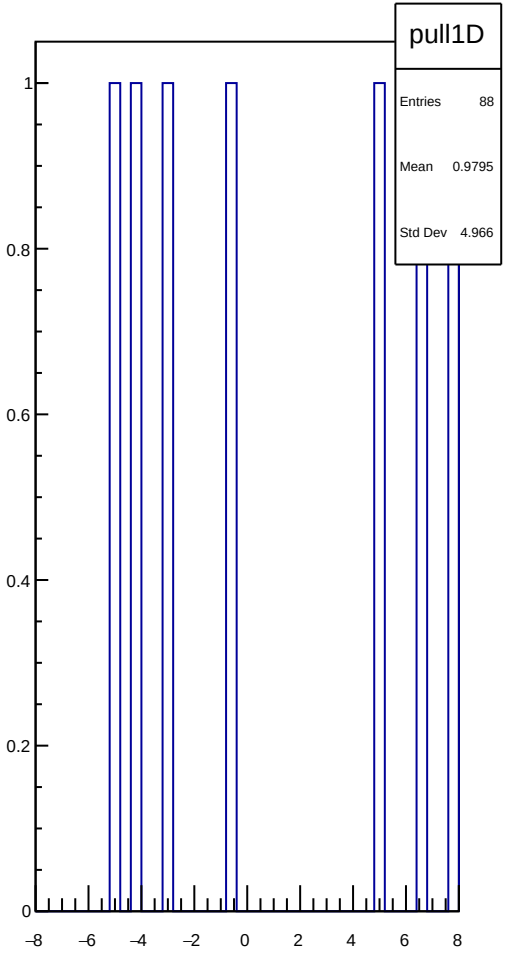

pull1D
Entries 88
Mean −0.1286
Std Dev 3.643
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

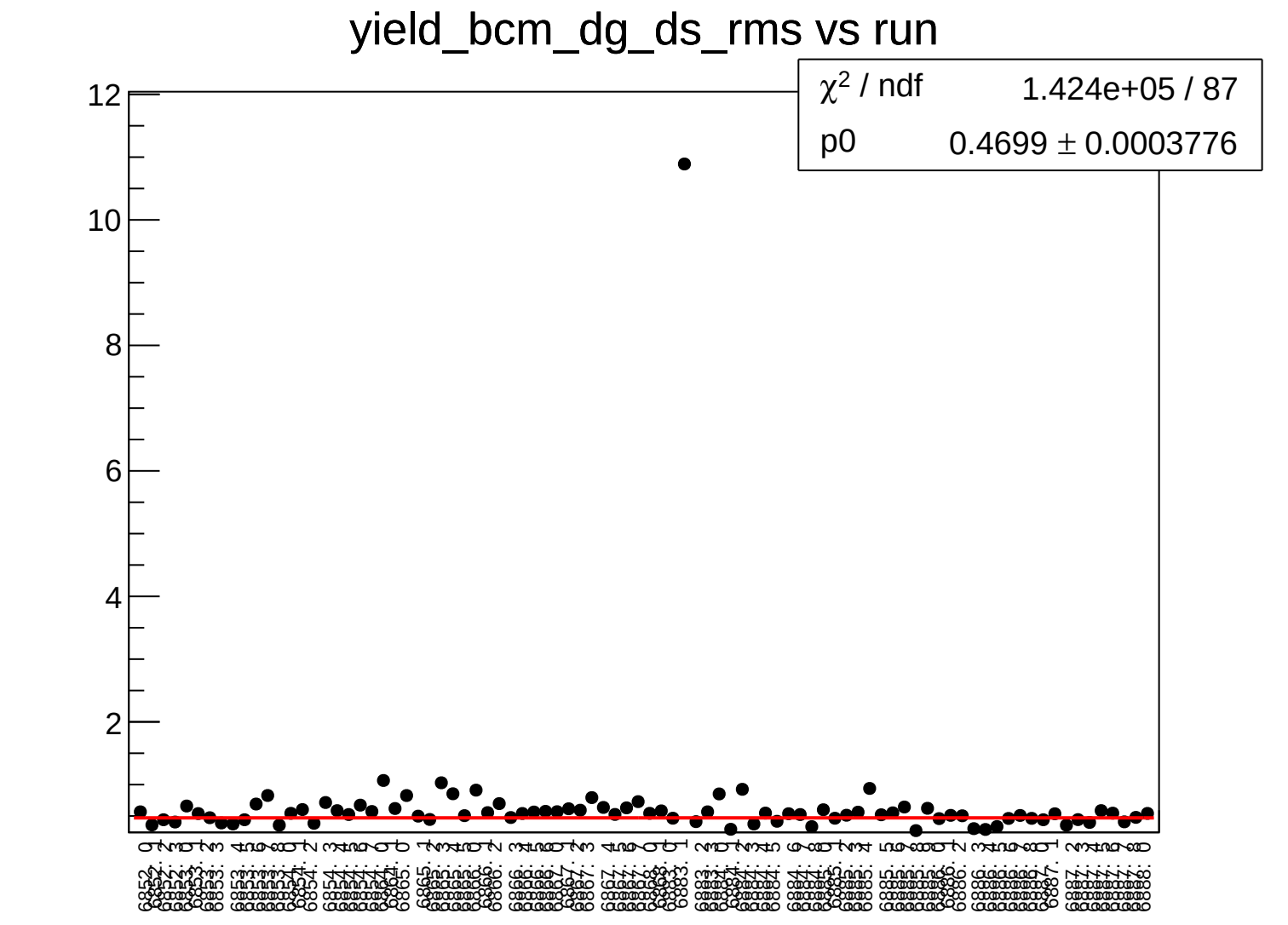

yield_bcm_an_us_rms vs run
χ² / ndf 1.424e+05 / 87
p0 0.4719 ± 0.0003792
12
10
8
6
4
2

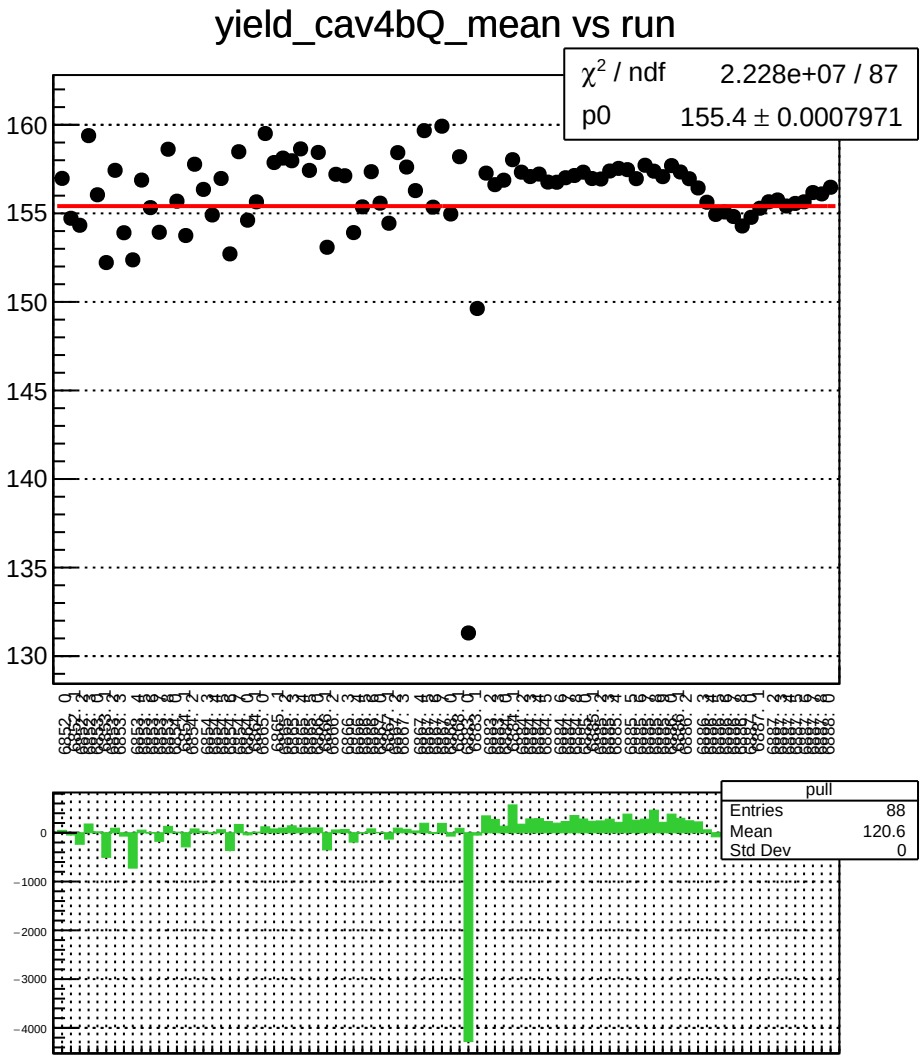

yield_bcm_dg_us_mean vs run
χ² / ndf 2.244e+07 / 87
p0 145.5 ± 0.0005336
145
140
135
130
125
pull
Entries 88
Mean −255.5
Std Dev 0
0
−1000
−2000
−3000
−4000
pull1D
Entries 88
Mean −1.782
Std Dev 2.958
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

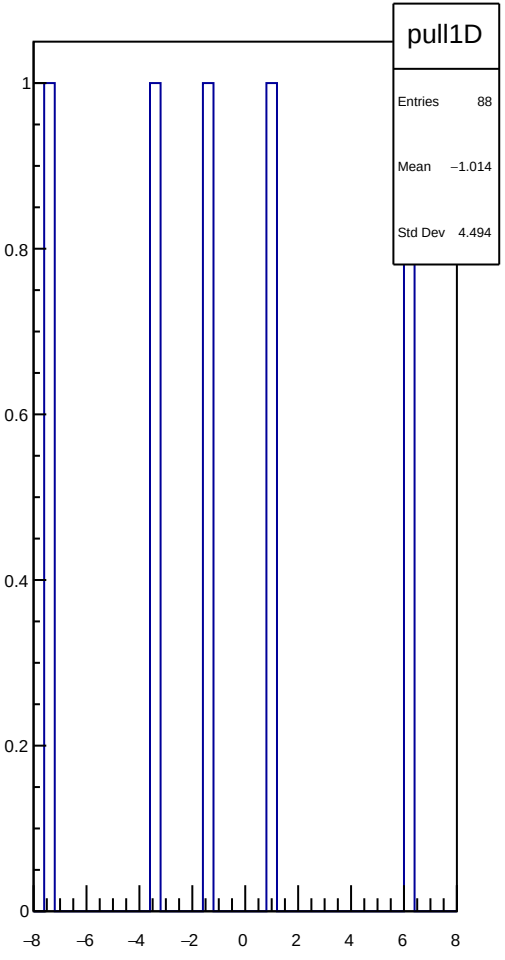

yield_bcm_dg_us_rms vs run
χ² / ndf 1.436e+05 / 87
p0 0.4693 ± 0.0003773
12
10
8
6
4
2

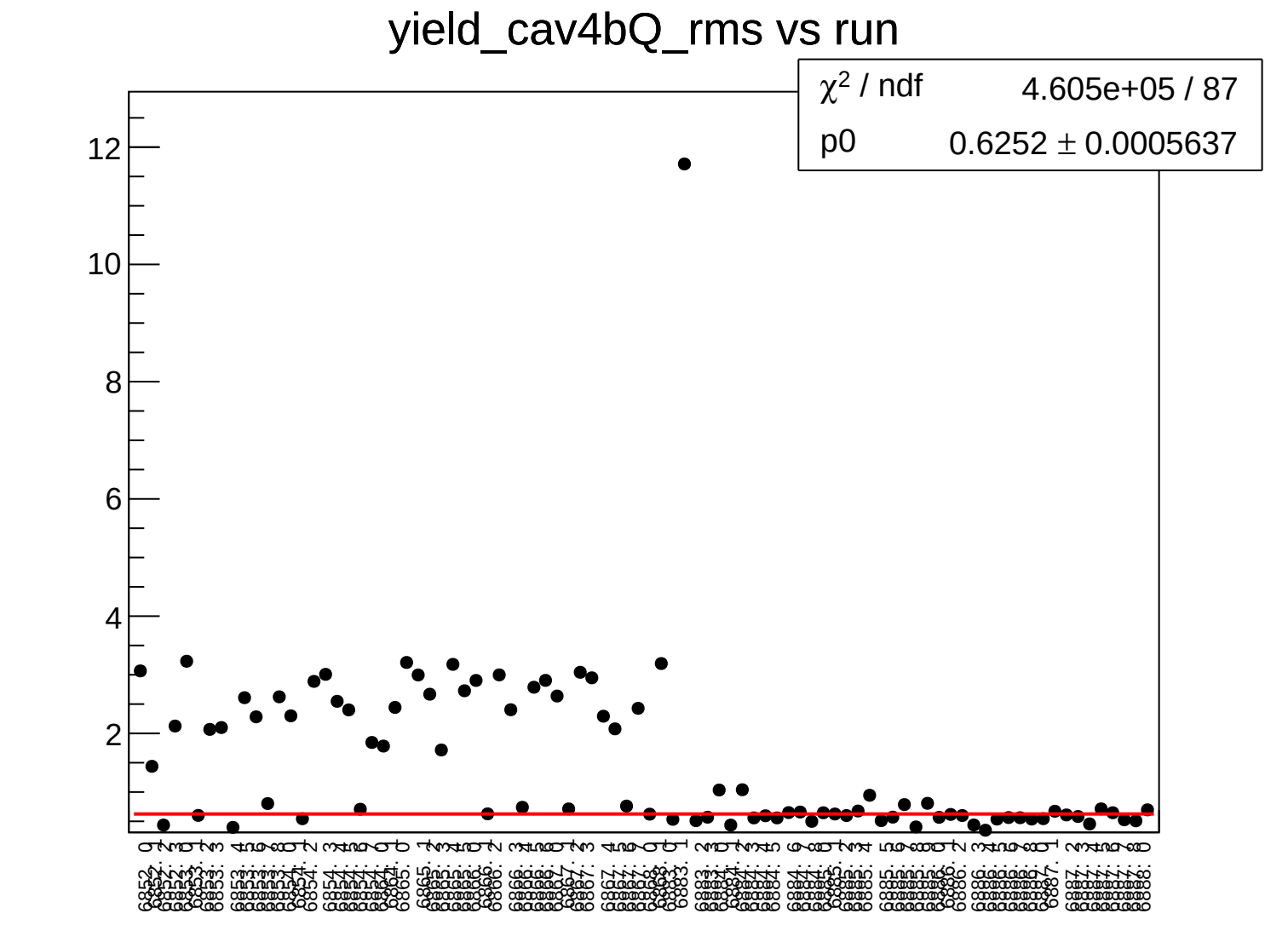

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.282e+07 / 87
p0 144.3 ± 0.000534
145
140
135
130
125
120
pull
Entries 88
Mean −212.9
Std Dev 0
0
−1000
−2000
−3000
−4000

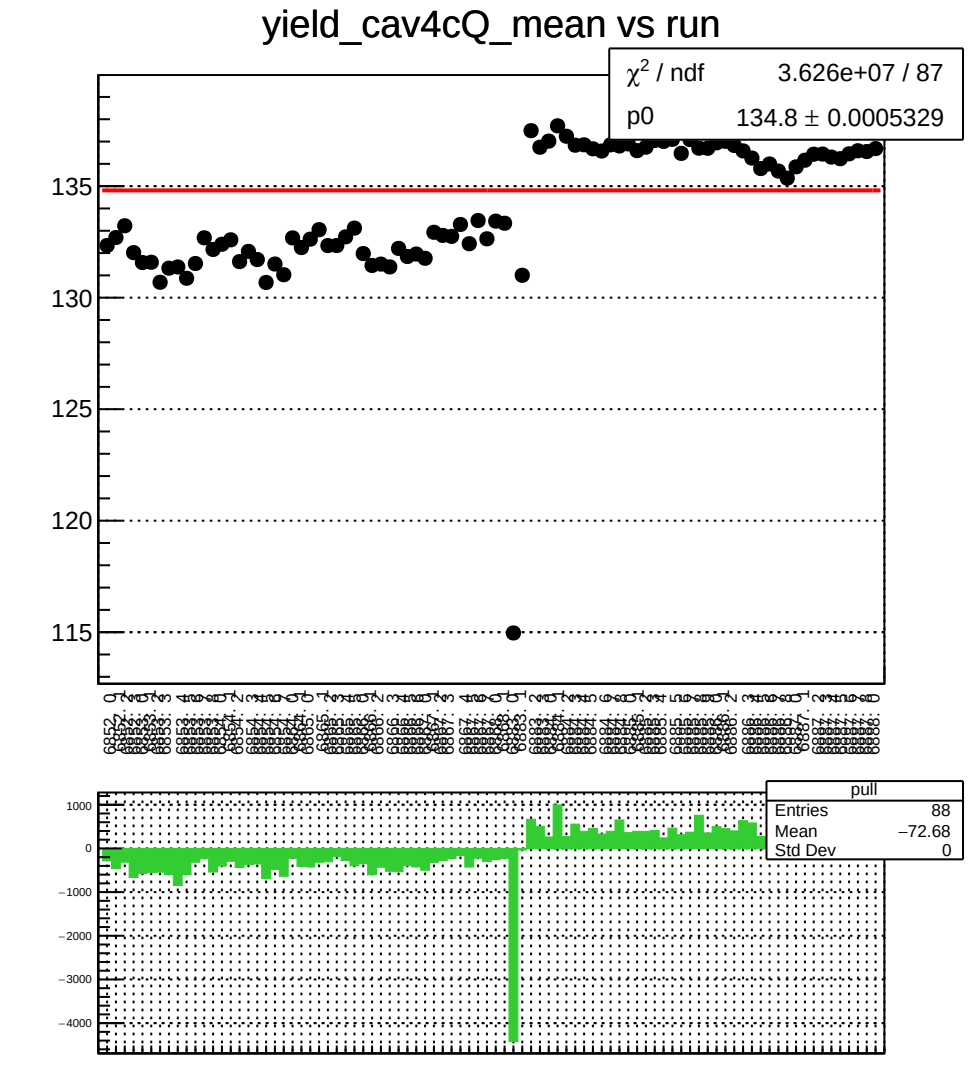

pull1D
Entries 88
Mean 0.9795
Std Dev 4.966
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

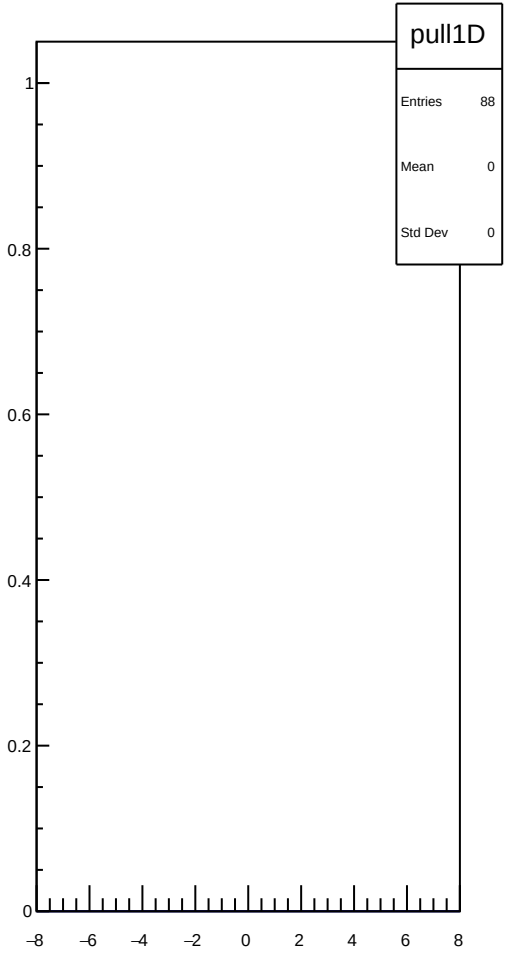

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.424e+05 / 87
p0 0.4699 ± 0.0003776
12
10
8
6
4
2

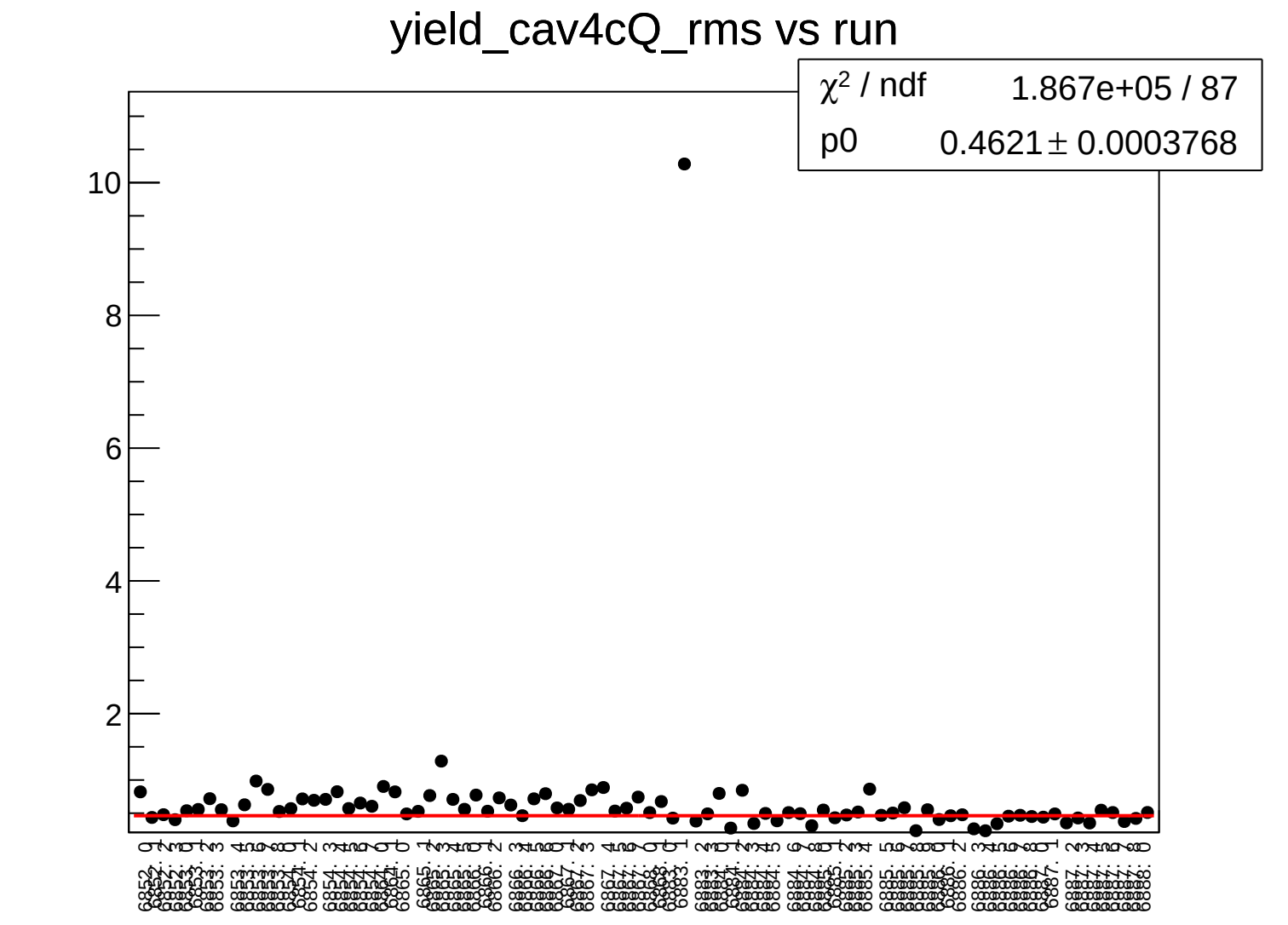

yield_cav4bQ_mean vs run
χ² / ndf 2.228e+07 / 87
p0 155.4 ± 0.0007971
160
155
150
145
140
135
130
pull
Entries 88
Mean 120.6
Std Dev 0
0
−1000
−2000
−3000
−4000

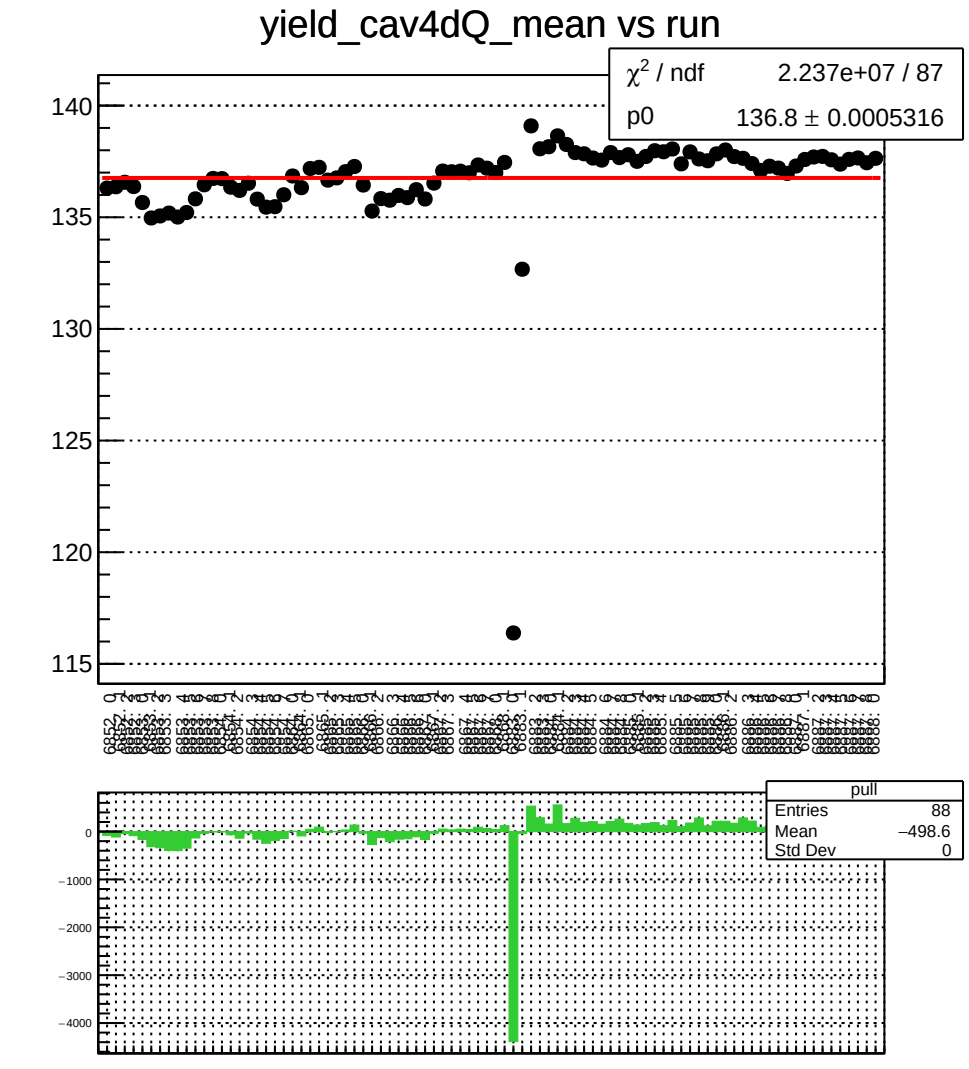

pull1D
Entries 88
Mean −1.014
Std Dev 4.494
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

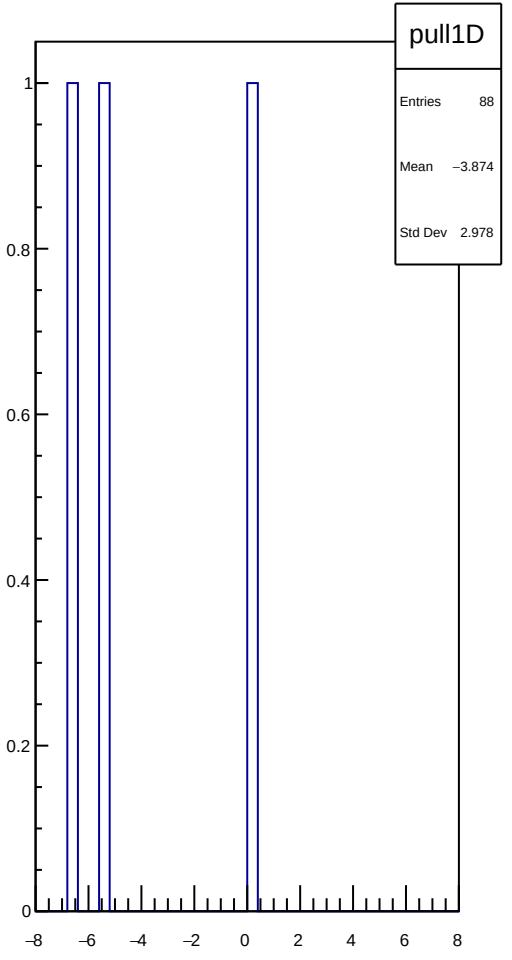

yield_cav4bQ_rms vs run
χ² / ndf 4.605e+05 / 87
p0 0.6252 ± 0.0005637
12
10
8
6
4
2

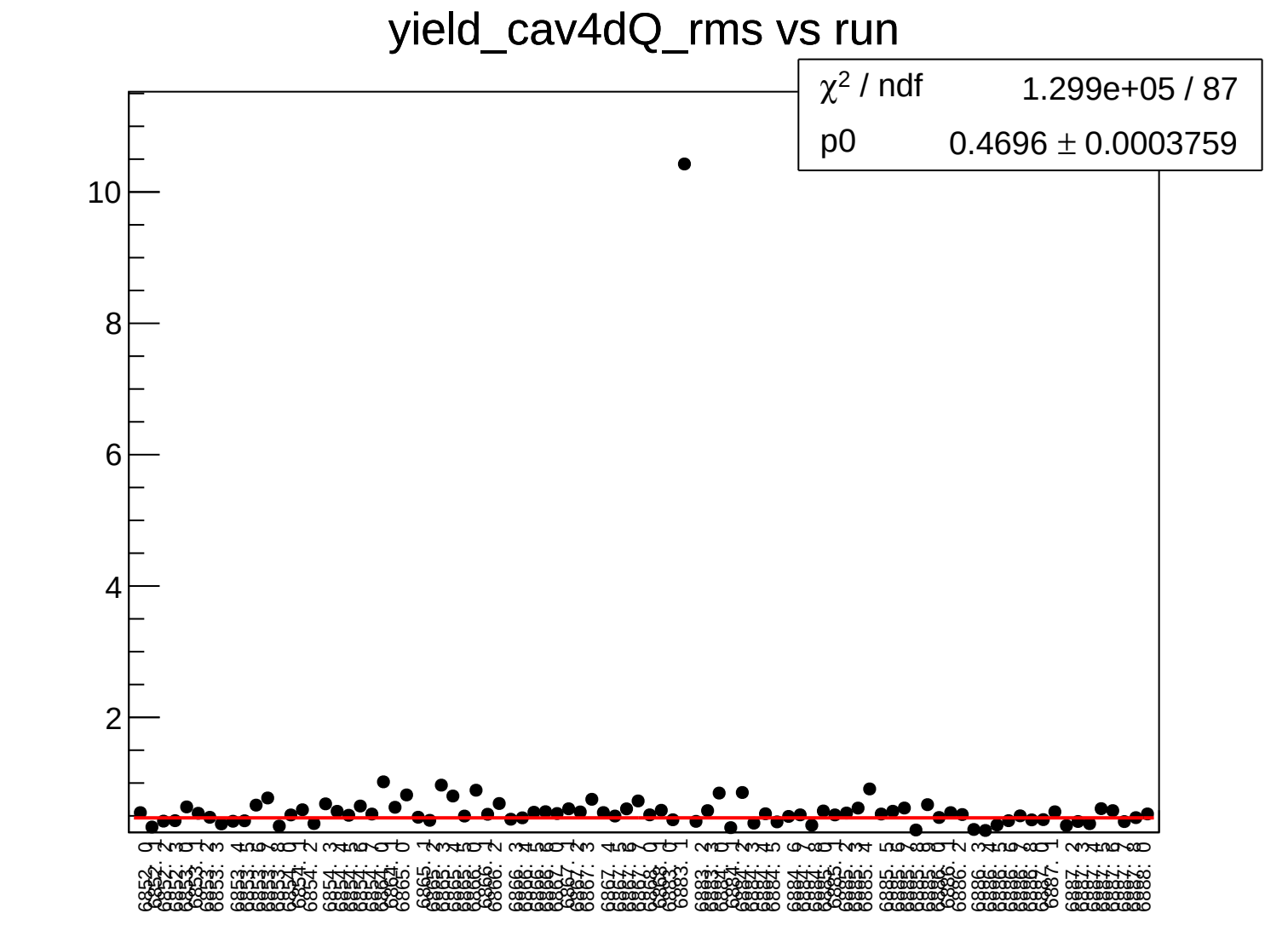

yield_cav4cQ_mean vs run
χ² / ndf 3.626e+07 / 87
p0 134.8 ± 0.0005329
135
130
125
120
115
pull
Entries 88
Mean −72.68
Std Dev 0
1000
0
−1000
−2000
−3000
−4000

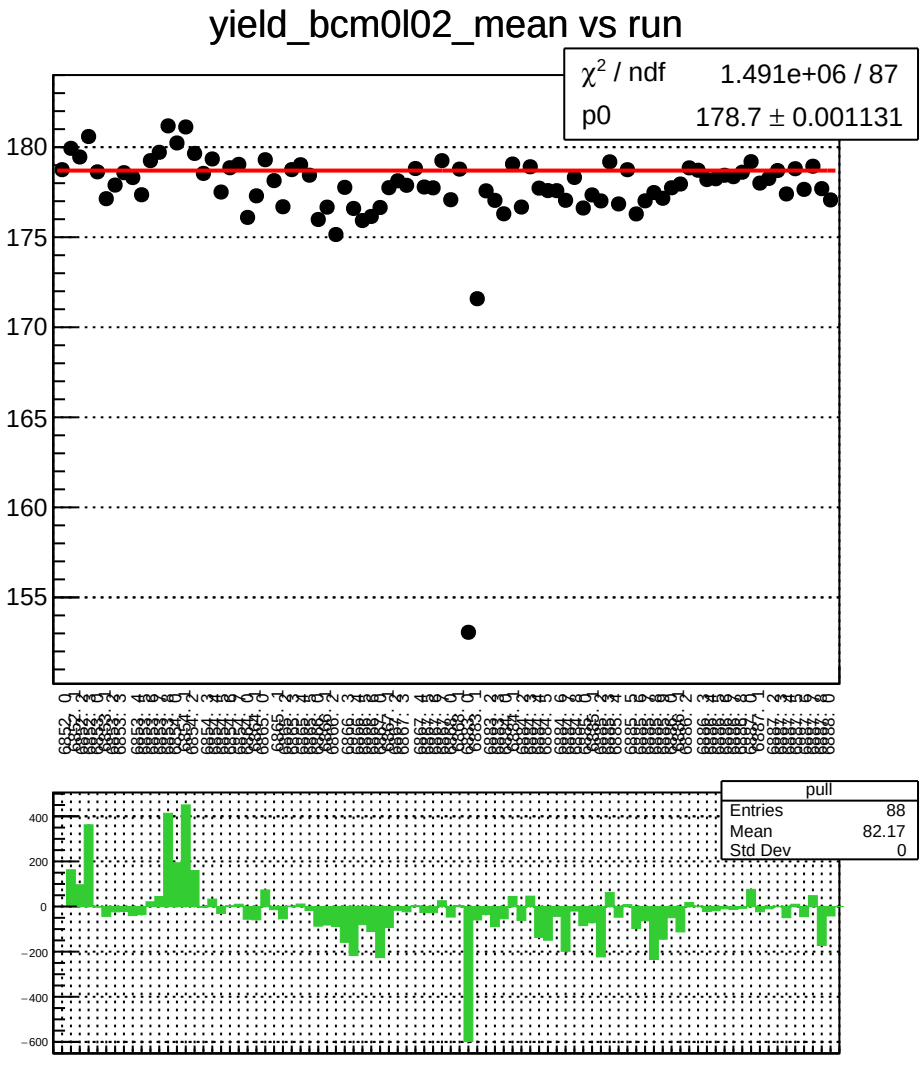

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

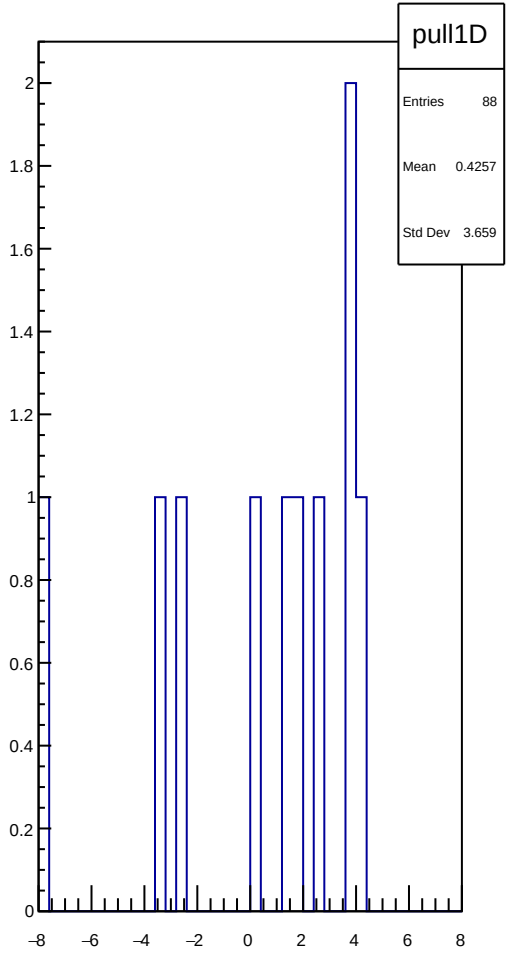

yield_cav4cQ_rms vs run
χ² / ndf 1.867e+05 / 87
p0 0.4621 ± 0.0003768
10
8
6
4
2

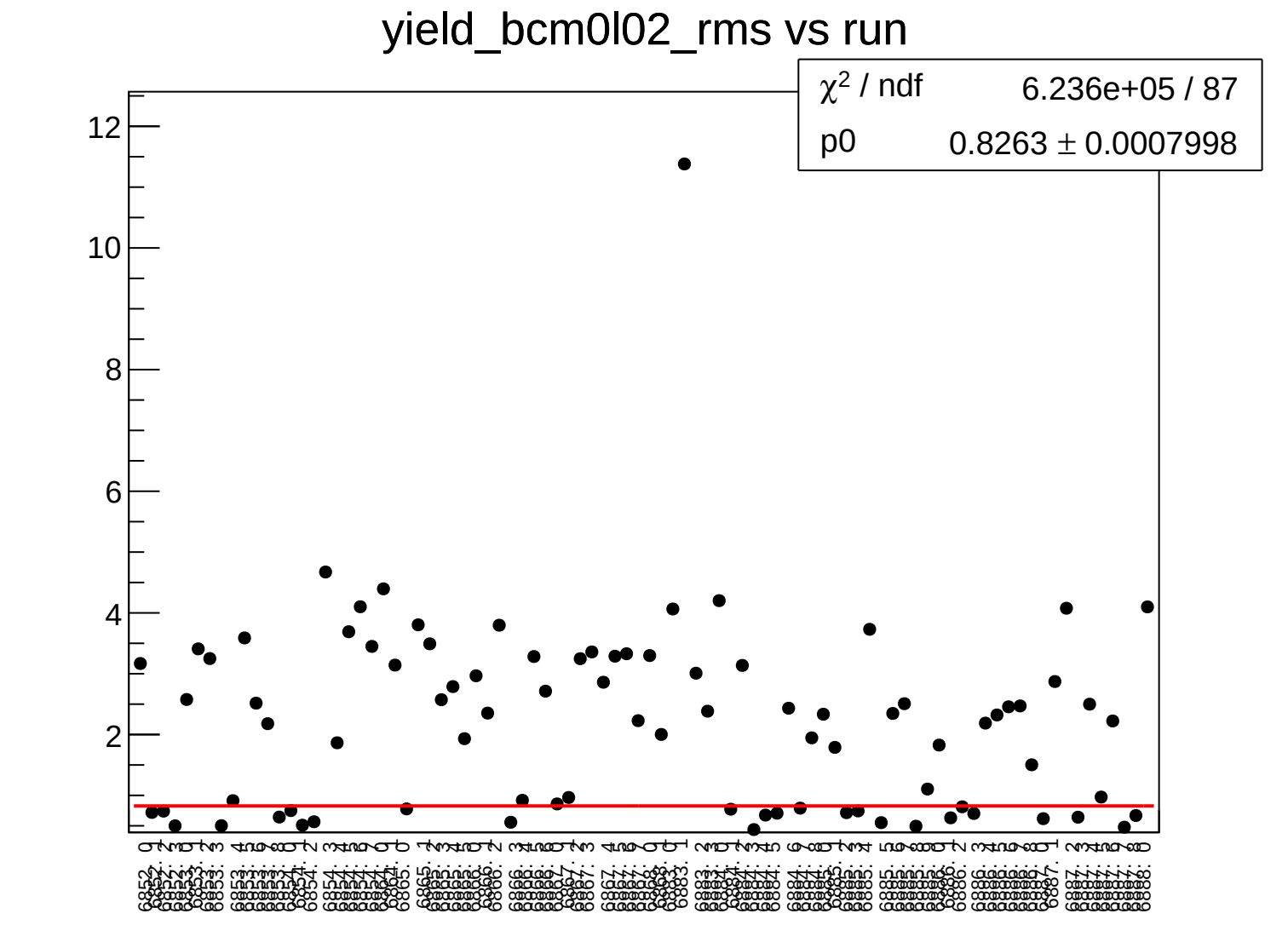

yield_cav4dQ_mean vs run
χ² / ndf 2.237e+07 / 87
p0 136.8 ± 0.0005316
140
135
130
125
120
115
pull
Entries 88
Mean −498.6
Std Dev 0
0
−1000
−2000
−3000
−4000

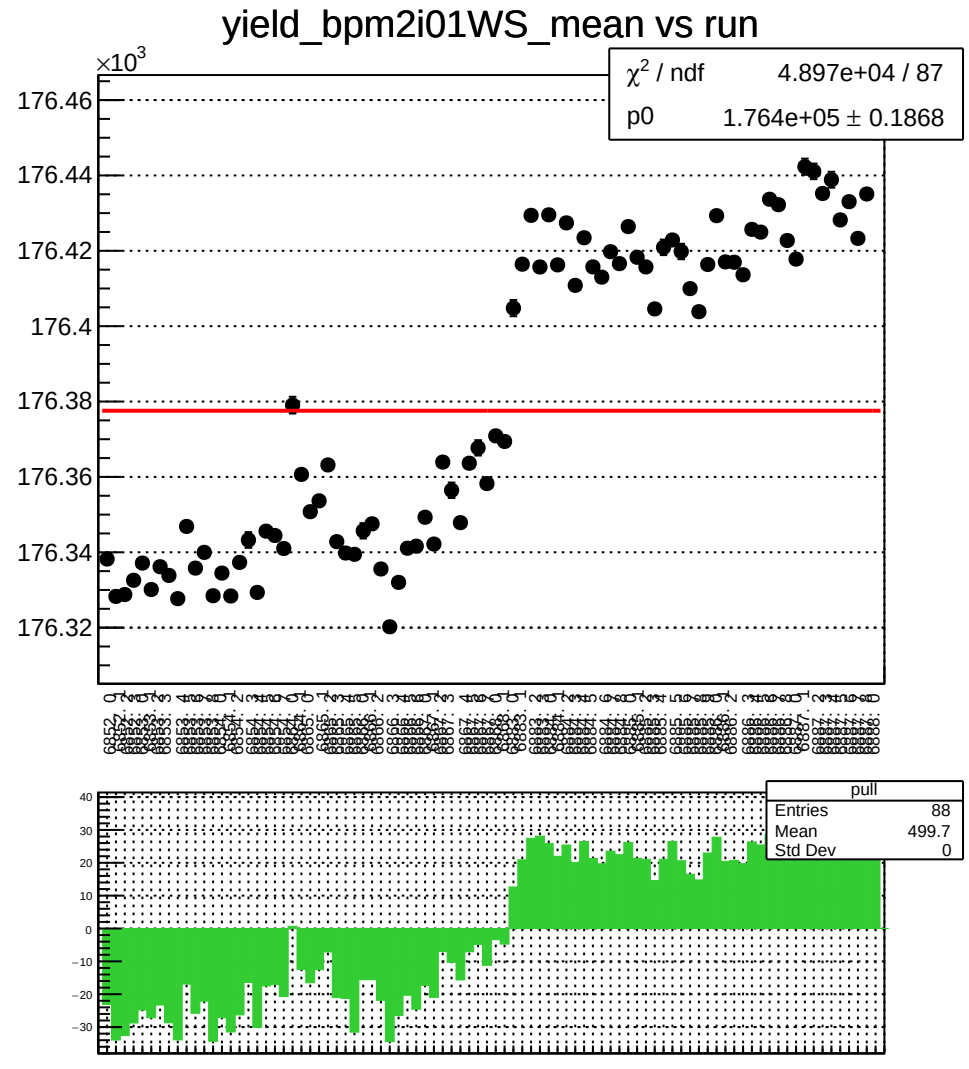

pull1D
Entries 88
Mean −3.874
Std Dev 2.978
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

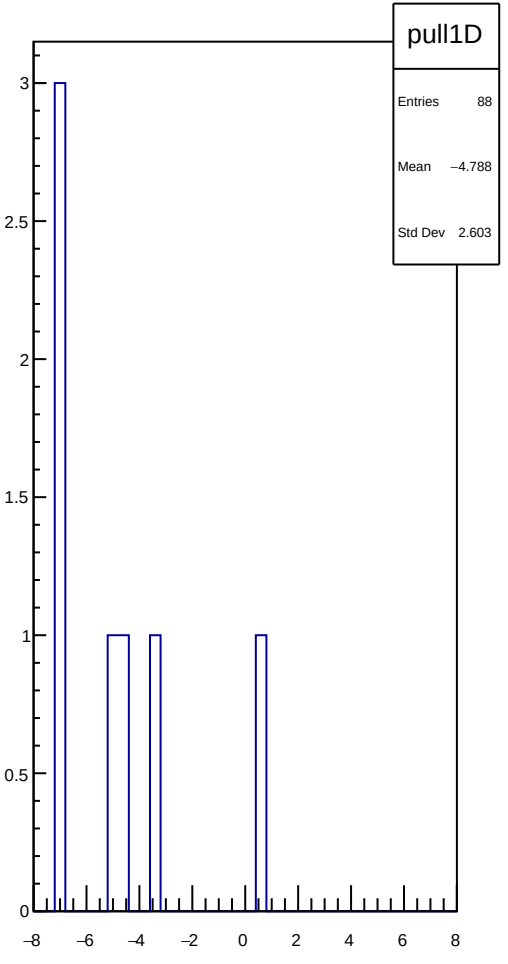

yield_cav4dQ_rms vs run
χ² / ndf 1.299e+05 / 87
p0 0.4696 ± 0.0003759
10
8
6
4
2

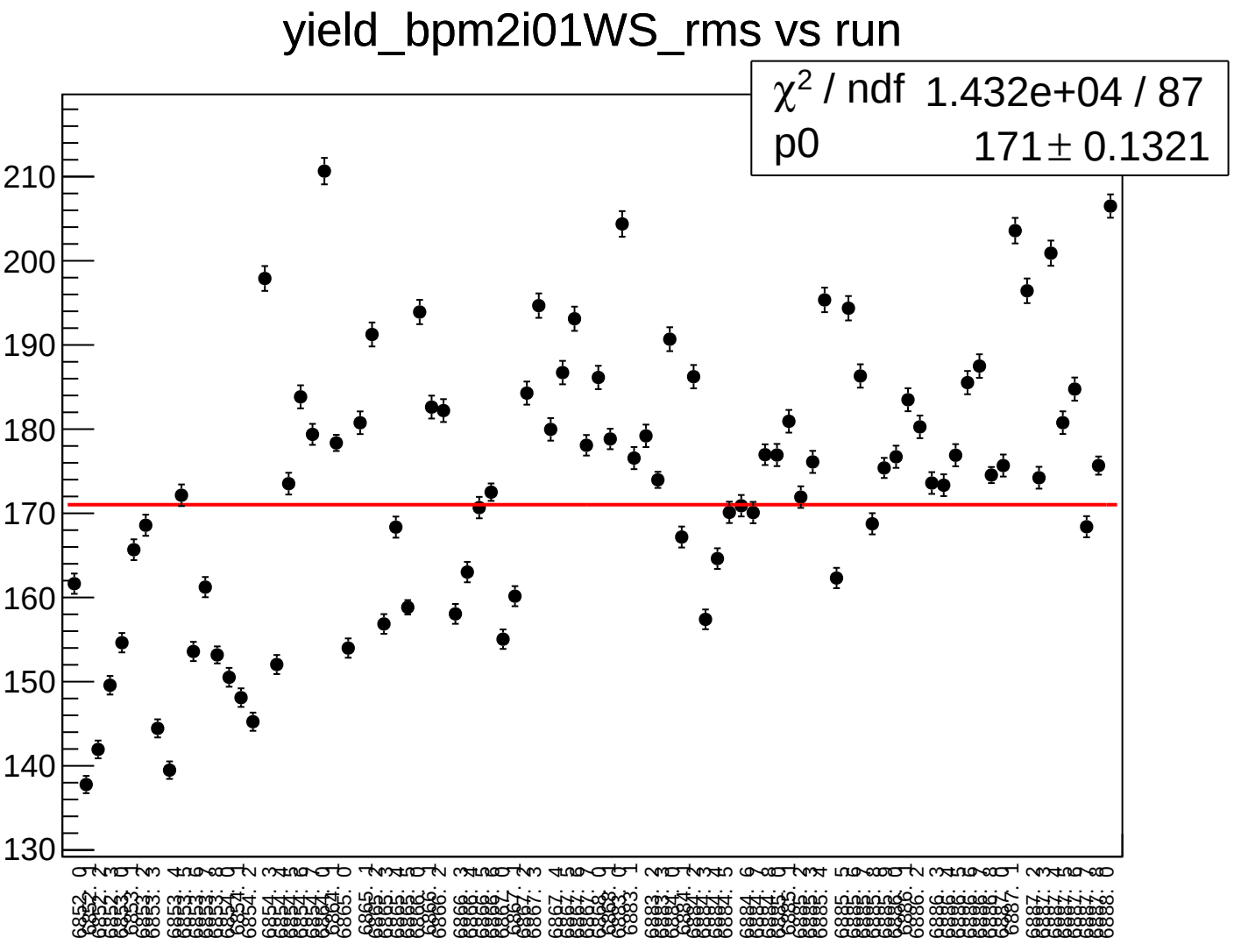

yield_bcm0l02_mean vs run
χ² / ndf 1.491e+06 / 87
p0 178.7 ± 0.001131
180
175
170
165
160
155
pull
Entries 88
Mean 82.17
Std Dev 0
400
200
0
−200
−400
−600

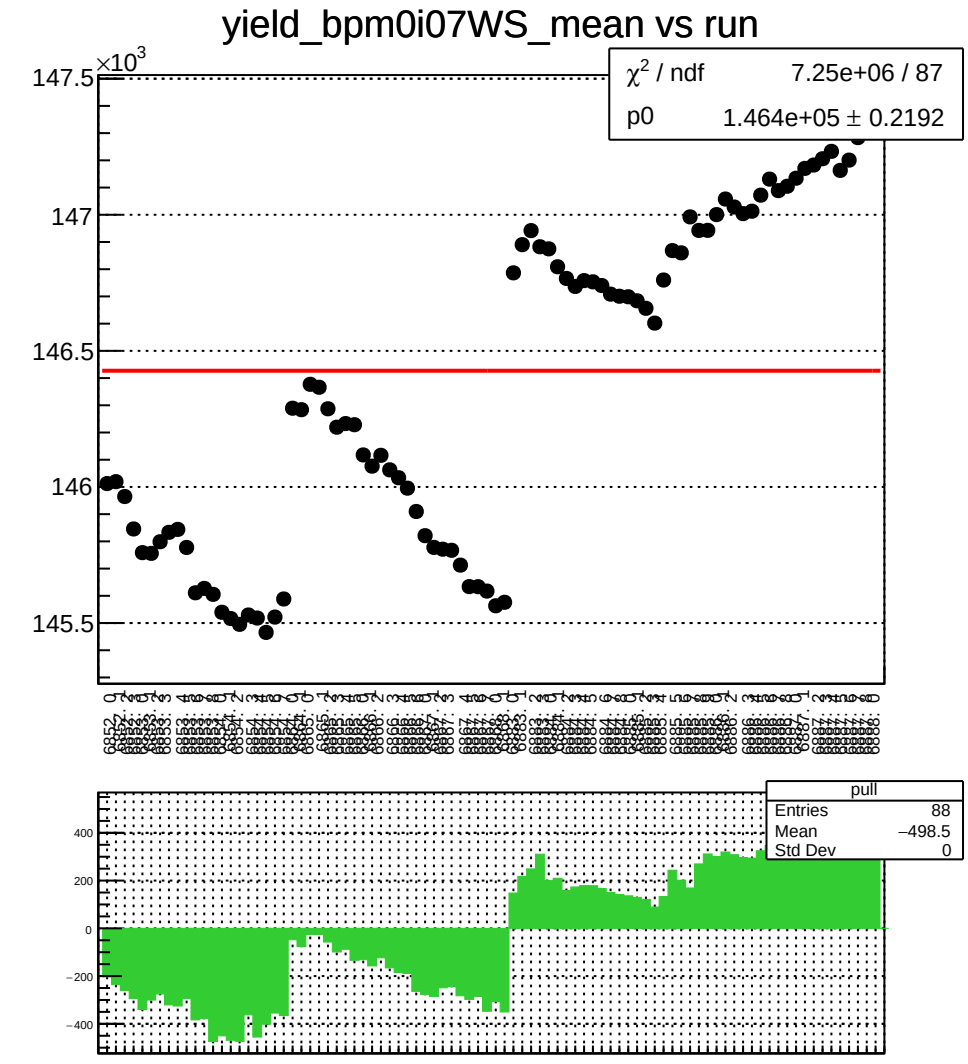

pull1D
Entries 88
Mean 0.4257
Std Dev 3.659
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

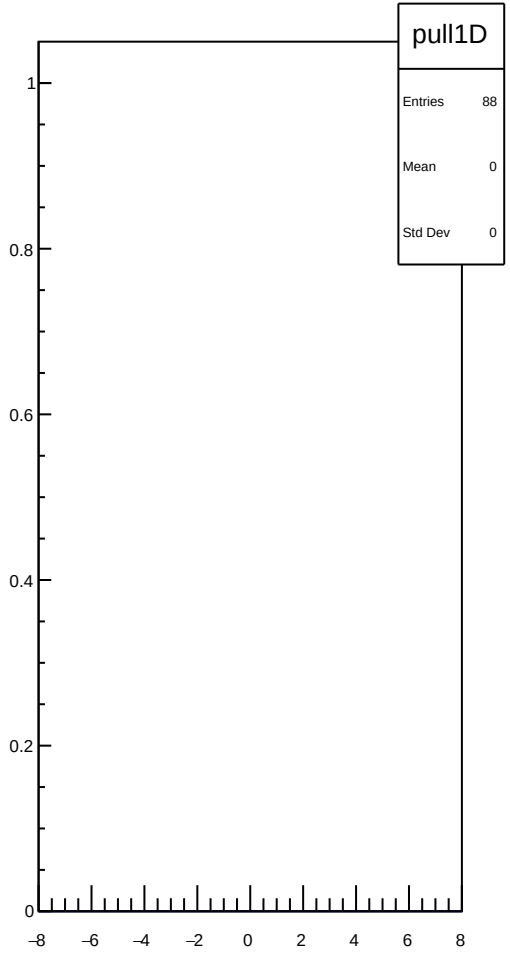

yield_bcm0l02_rms vs run
χ² / ndf 6.236e+05 / 87
p0 0.8263 ± 0.0007998
12
10
8
6
4
2

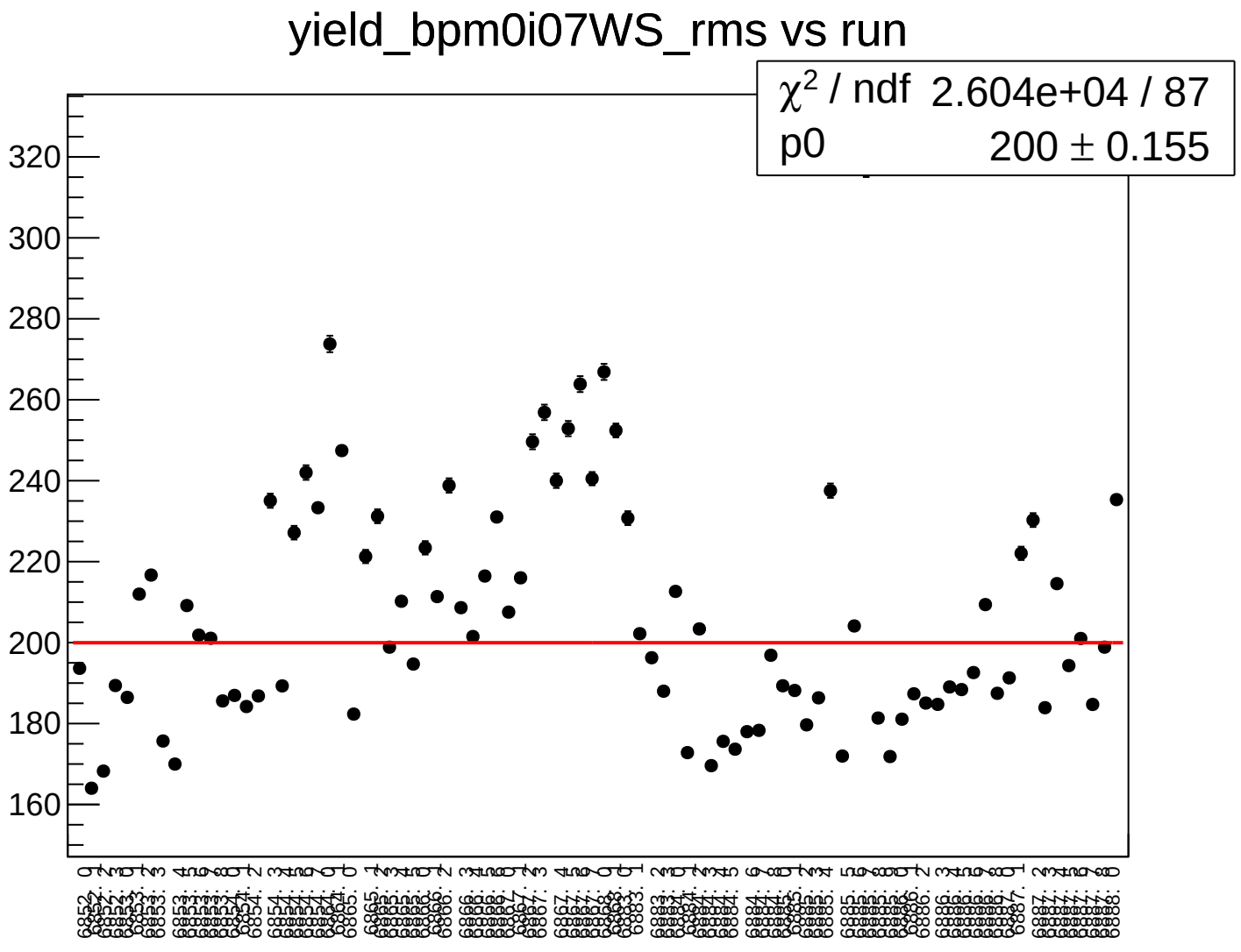

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4.897e+04 / 87
p0 1.764e+05 ± 0.1868
176.46
176.44
176.42
176.4
176.38
176.36
176.34
176.32
pull
Entries 88
Mean 499.7
Std Dev 0
40
30
20
10
0
−10
−20
−30

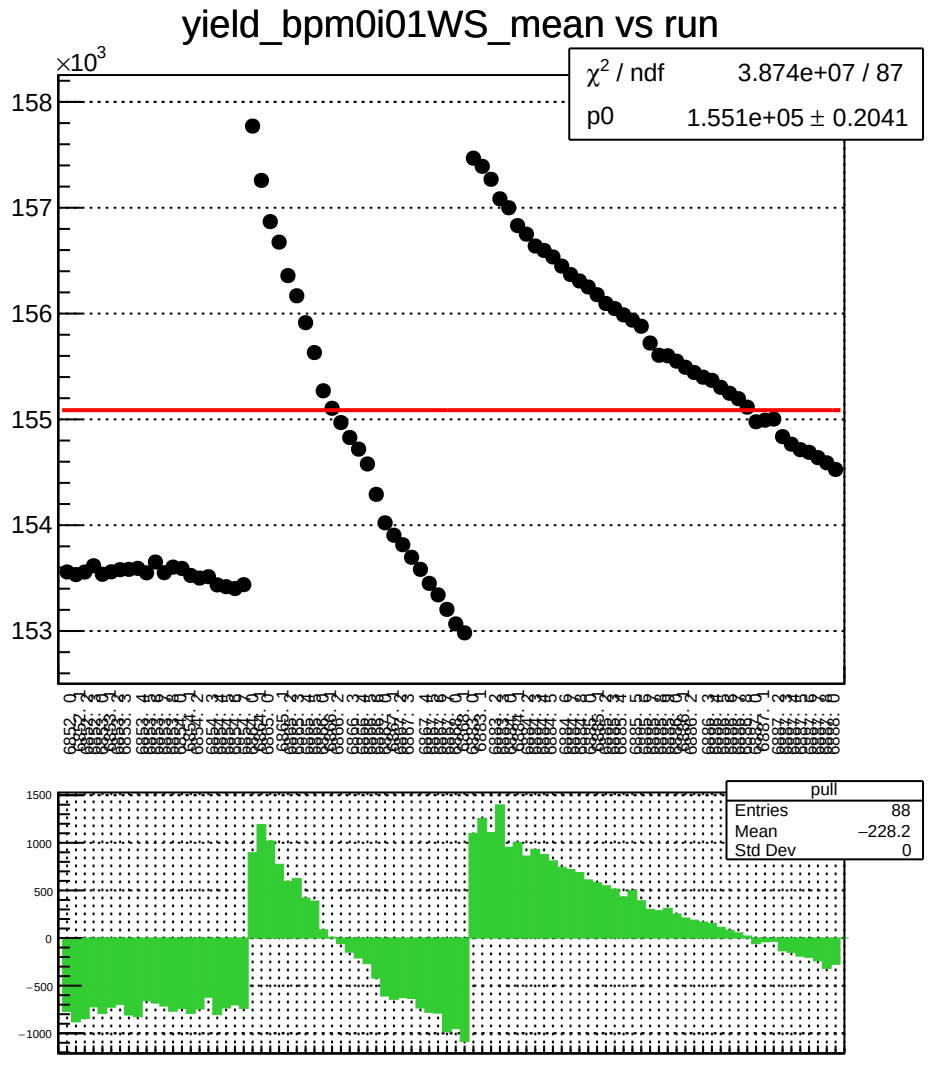

pull1D
Entries 88
Mean −4.788
Std Dev 2.603
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

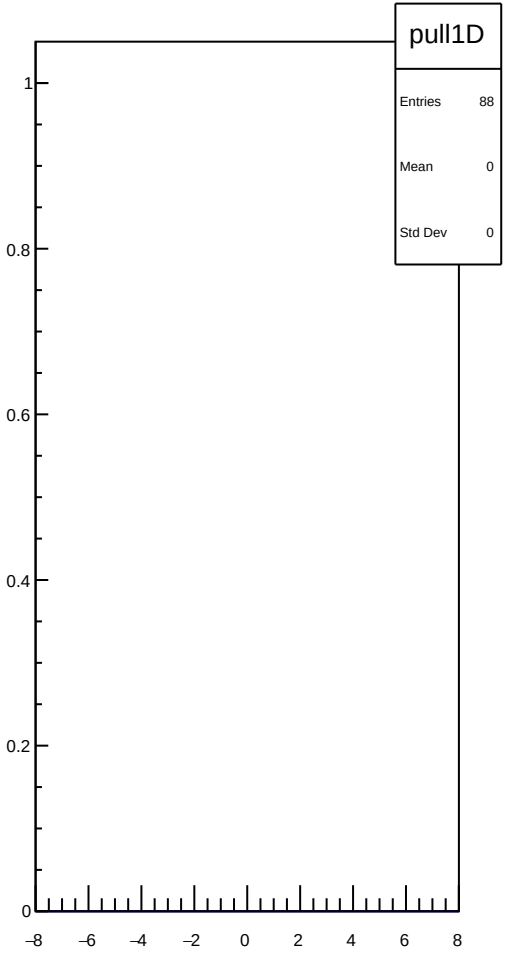

yield_bpm2i01WS_rms vs run
χ² / ndf 1.432e+04 / 87
p0 171 ± 0.1321
210
200
190
180
170
160
150
140
130

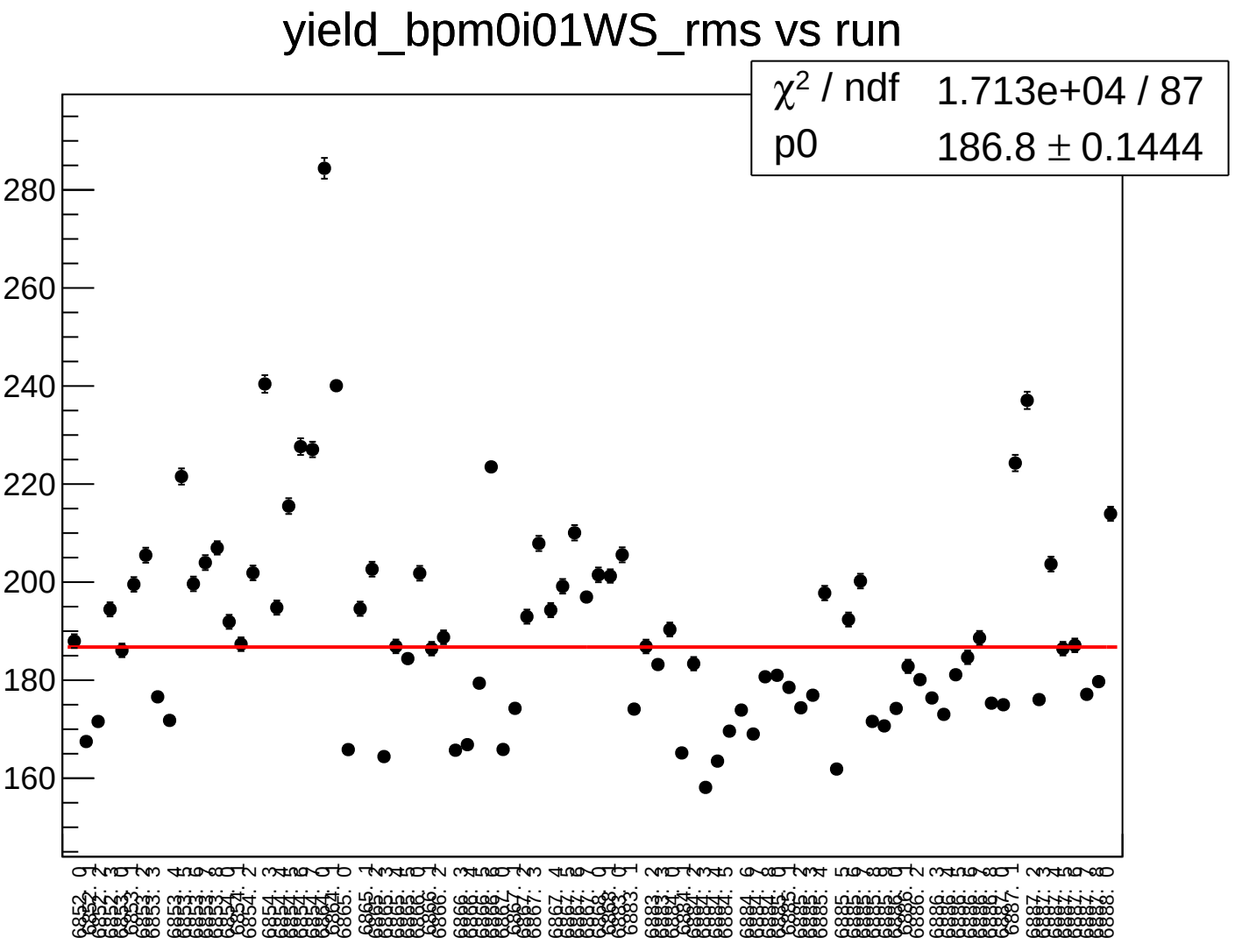

yield_bpm0i07WS_mean vs run
×10^3
147.5
147
146.5
146
145.5
χ² / ndf 7.25e+06 / 87
p0 1.464e+05 ± 0.2192
pull
Entries 88
Mean −498.5
Std Dev 0
400
200
0
−200
−400

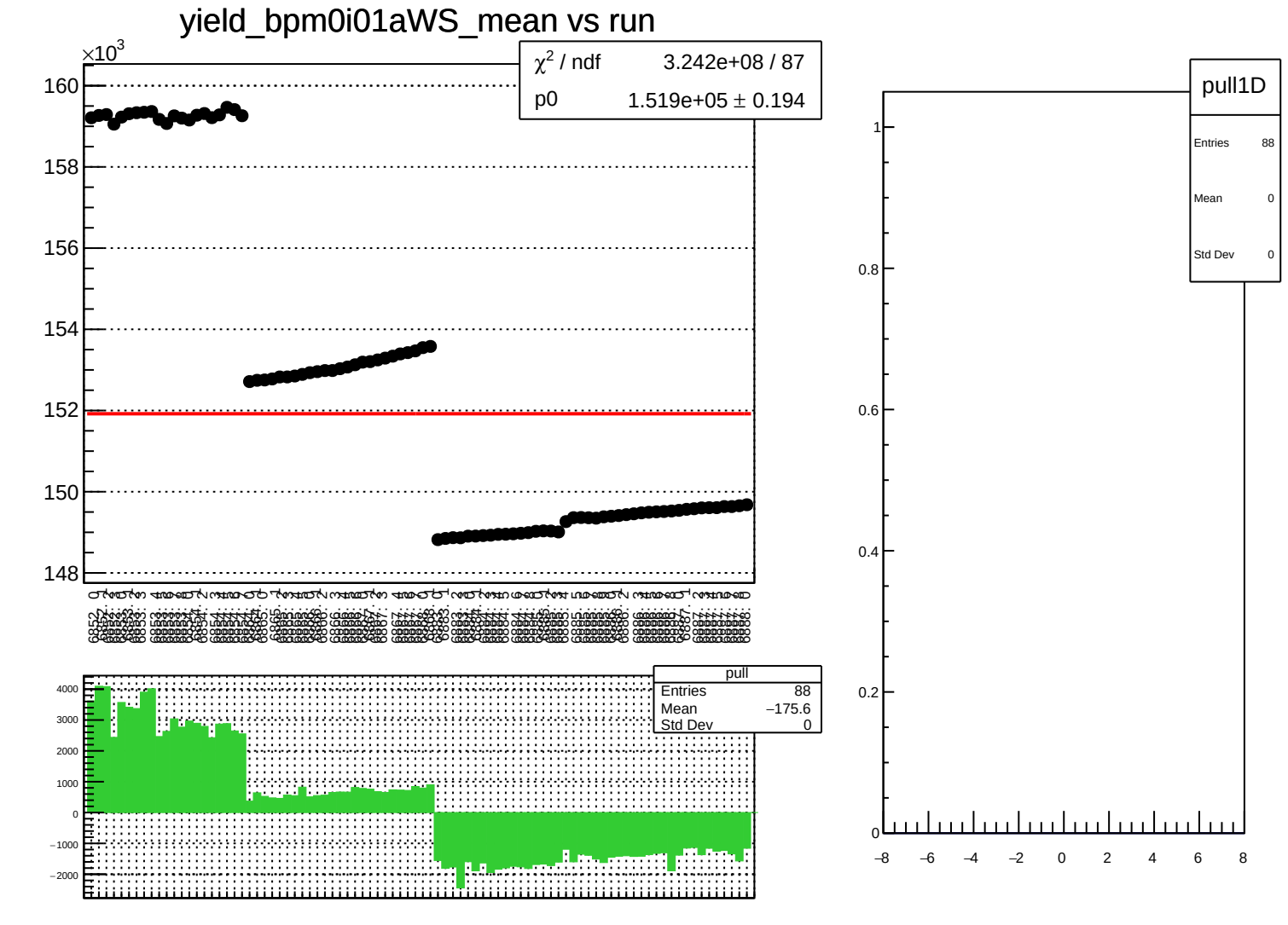

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

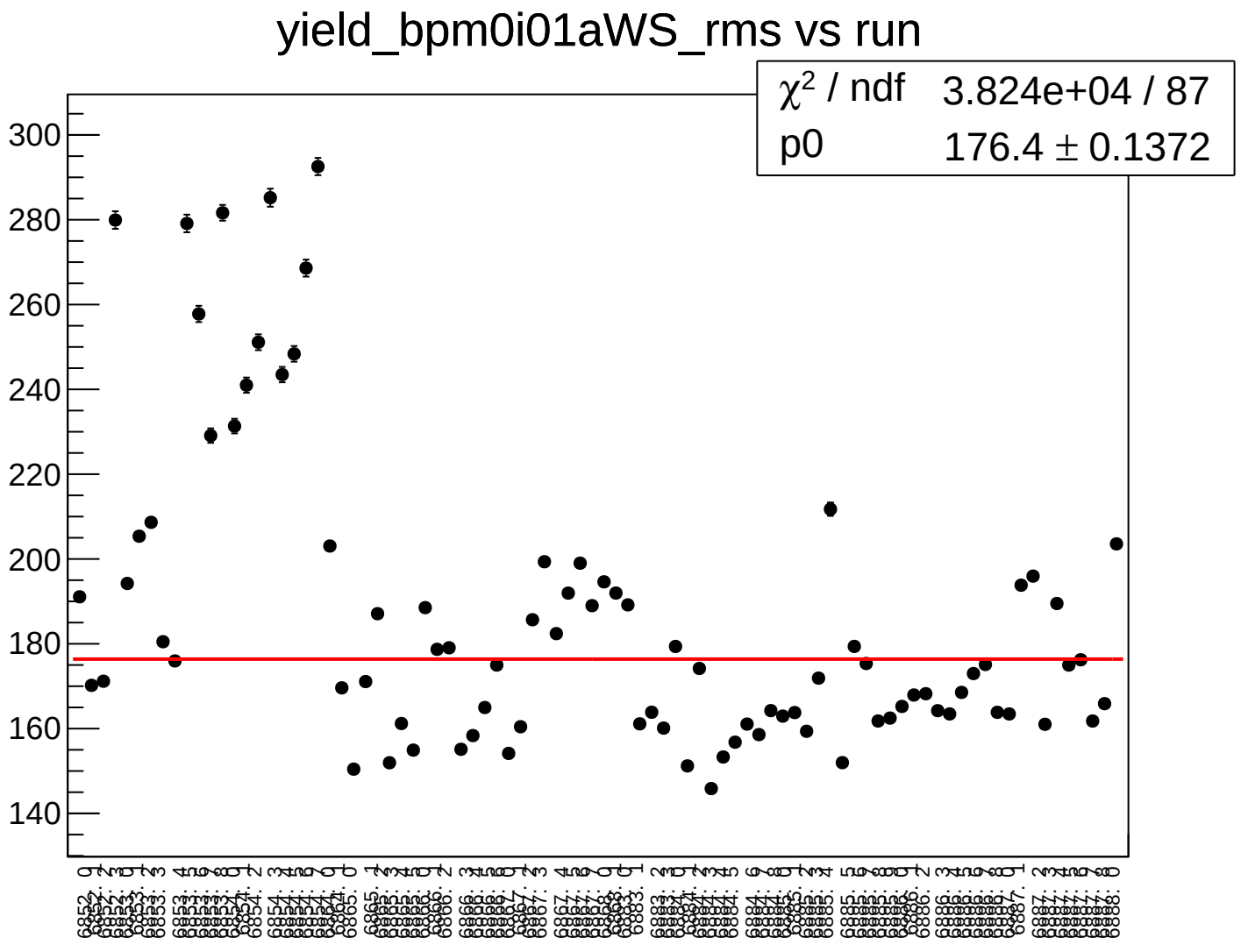

yield_bpm0i07WS_rms vs run
χ² / ndf 2.604e+04 / 87
p0 200 ± 0.155
320
300
280
260
240
220
200
180
160

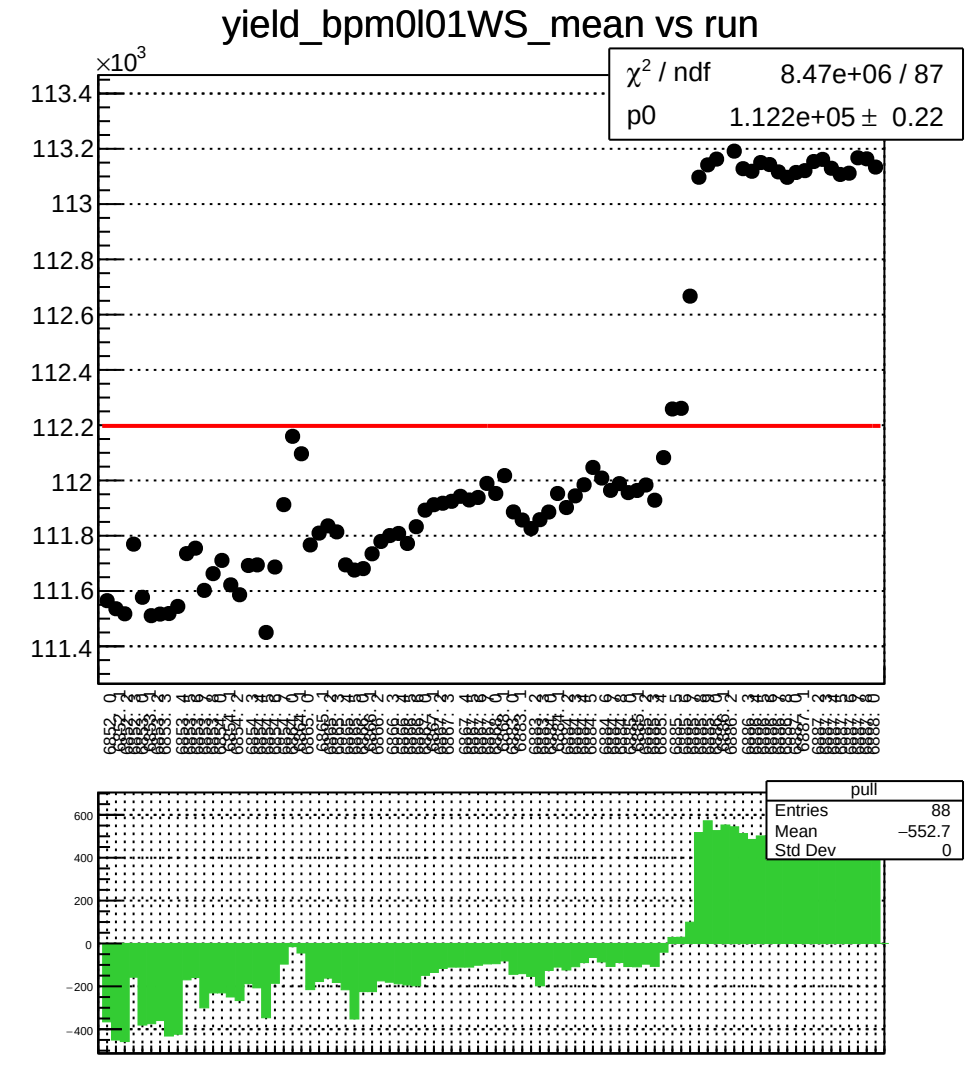

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 3.874e+07 / 87
p0 1.551e+05 ± 0.2041
158
157
156
155
154
153
pull
Entries 88
Mean −228.2
Std Dev 0
1500
1000
500
0
−500
−1000

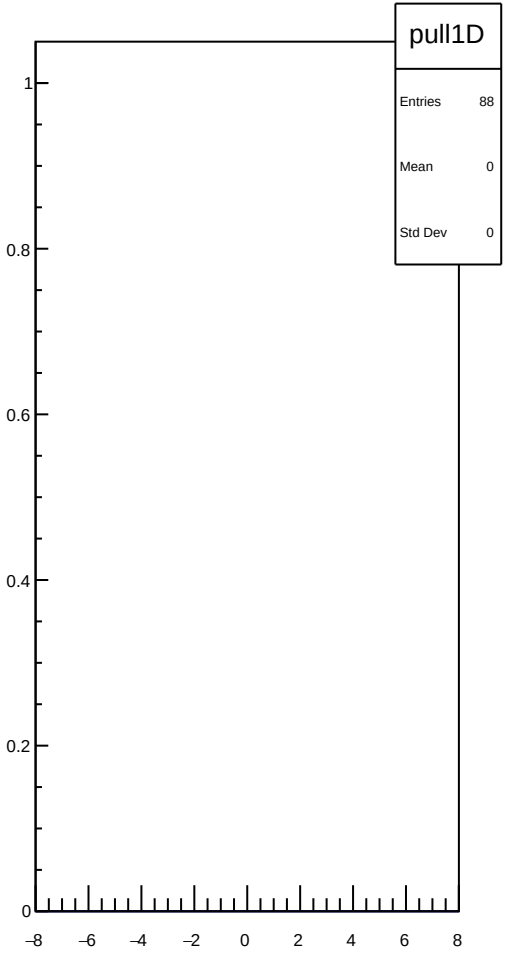

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

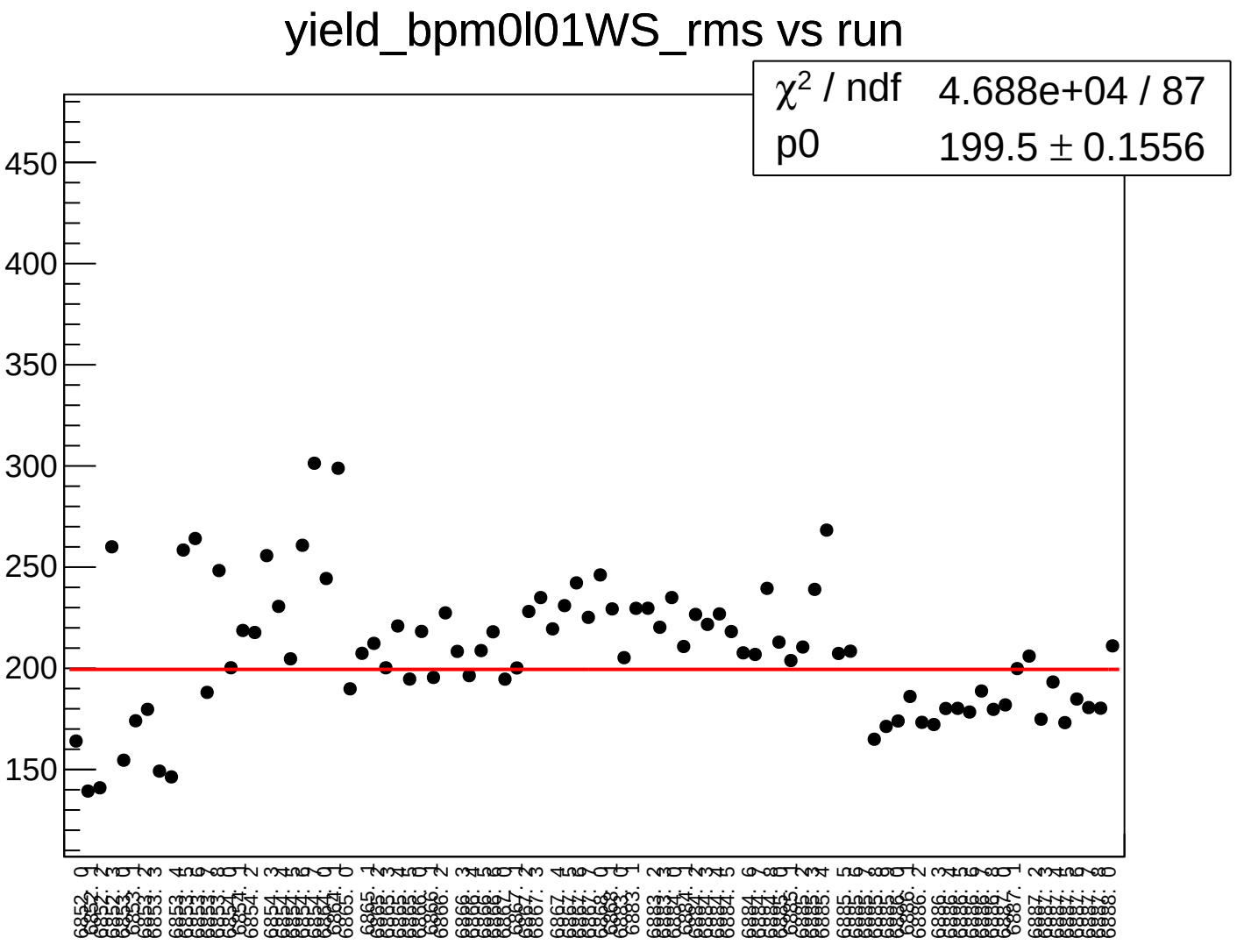

yield_bpm0i01WS_rms vs run
χ² / ndf 1.713e+04 / 87
p0 186.8 ± 0.1444
280
260
240
220
200
180
160

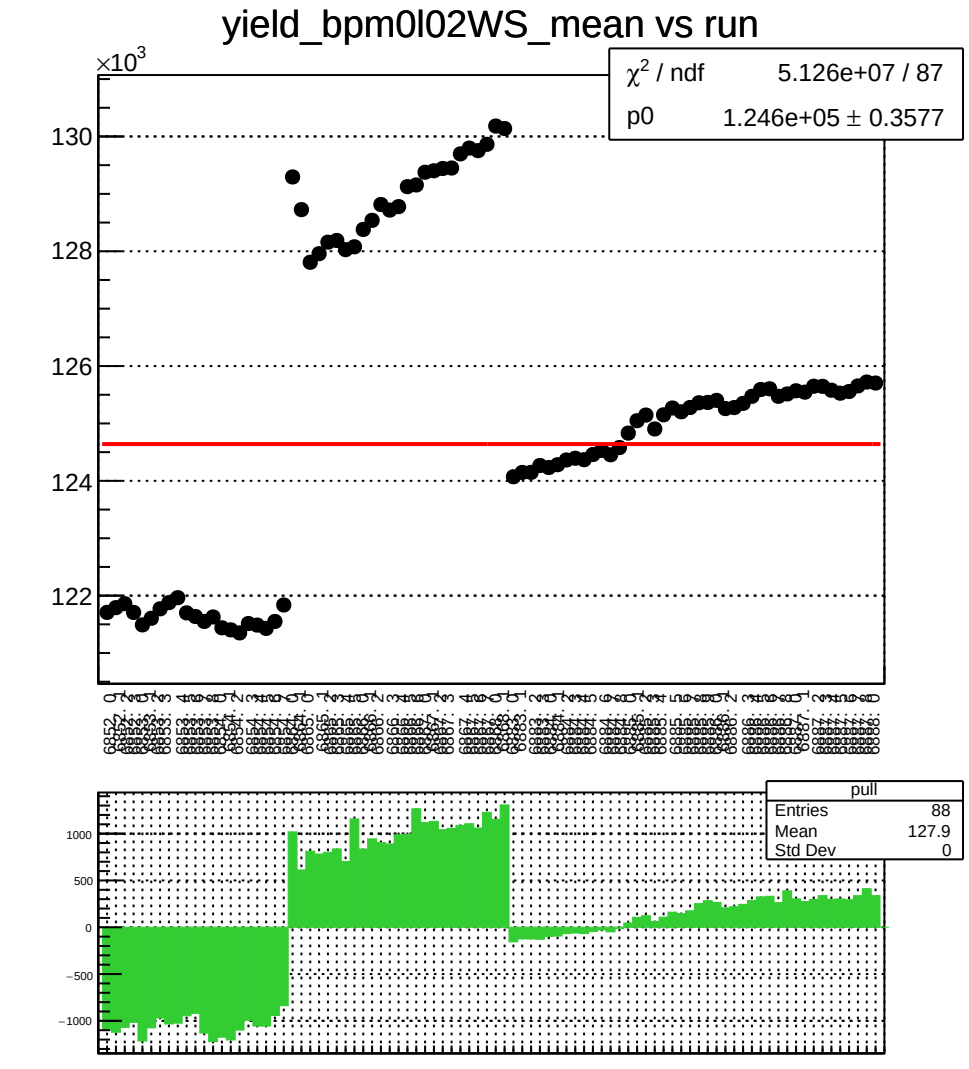

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 3.242e+08 / 87
p0 1.519e+05 ± 0.194
160
158
156
154
152
150
148
pull
Entries 88
Mean −175.6
Std Dev 0
4000
3000
2000
1000
0
−1000
−2000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

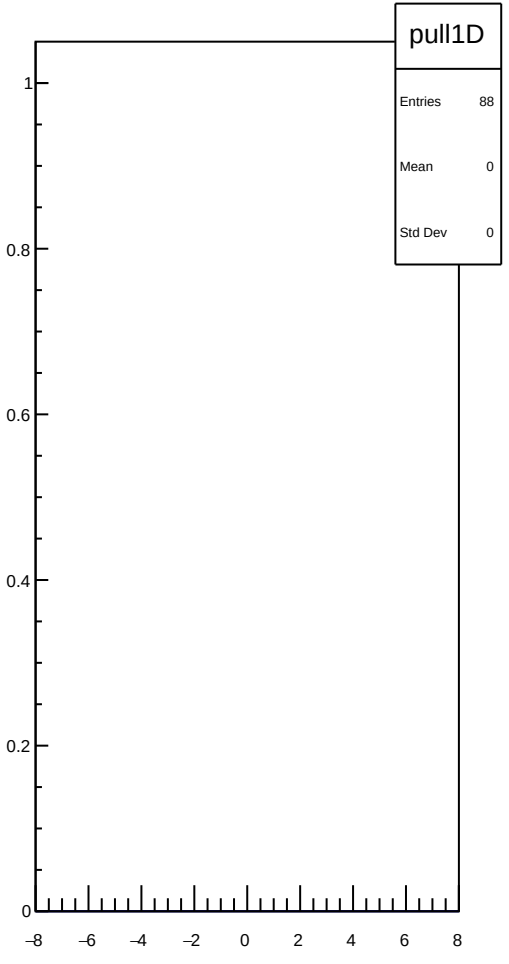

yield_bpm0i01aWS_rms vs run
χ² / ndf 3.824e+04 / 87
p0 176.4 ± 0.1372
300
280
260
240
220
200
180
160
140

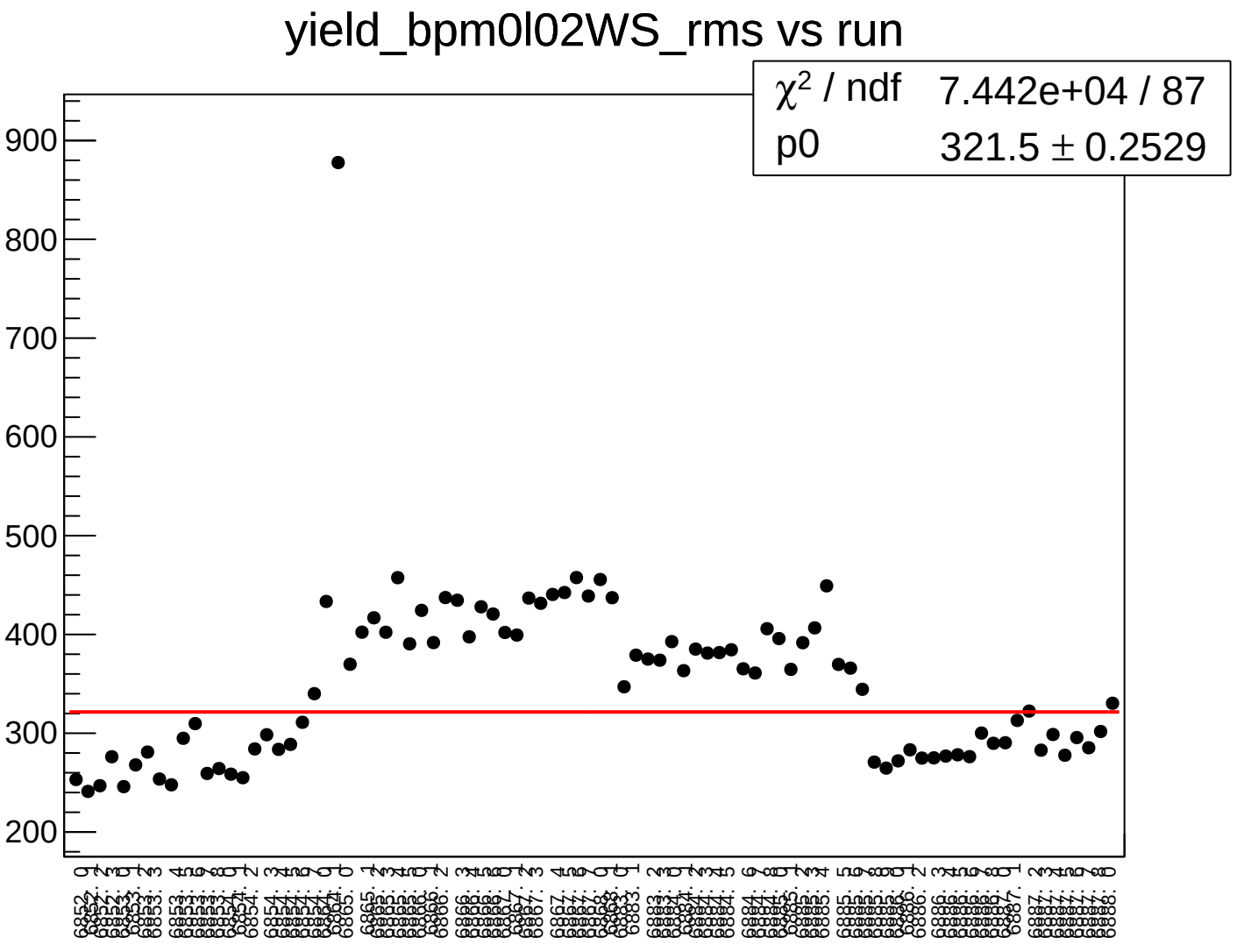

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 8.47e+06 / 87
p0 1.122e+05 ± 0.22
113.4
113.2
113
112.8
112.6
112.4
112.2
112
111.8
111.6
111.4
pull
Entries 88
Mean −552.7
Std Dev 0
600
400
200
0
−200
−400

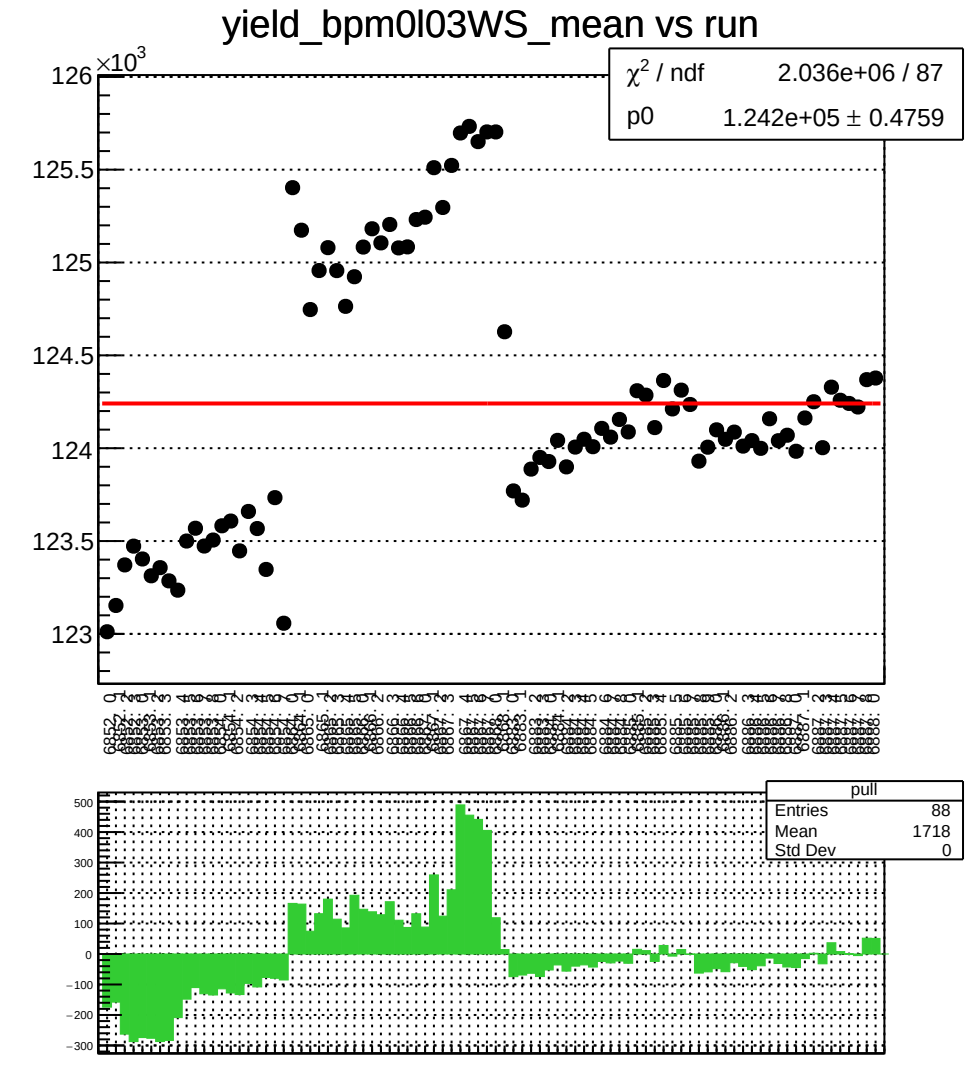

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

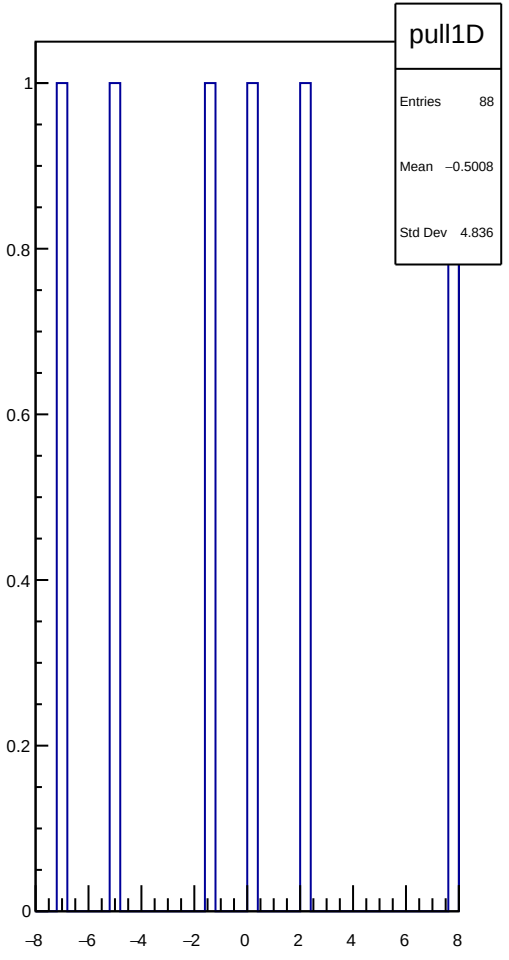

yield_bpm0l01WS_rms vs run
χ² / ndf 4.688e+04 / 87
p0 199.5 ± 0.1556
450
400
350
300
250
200
150

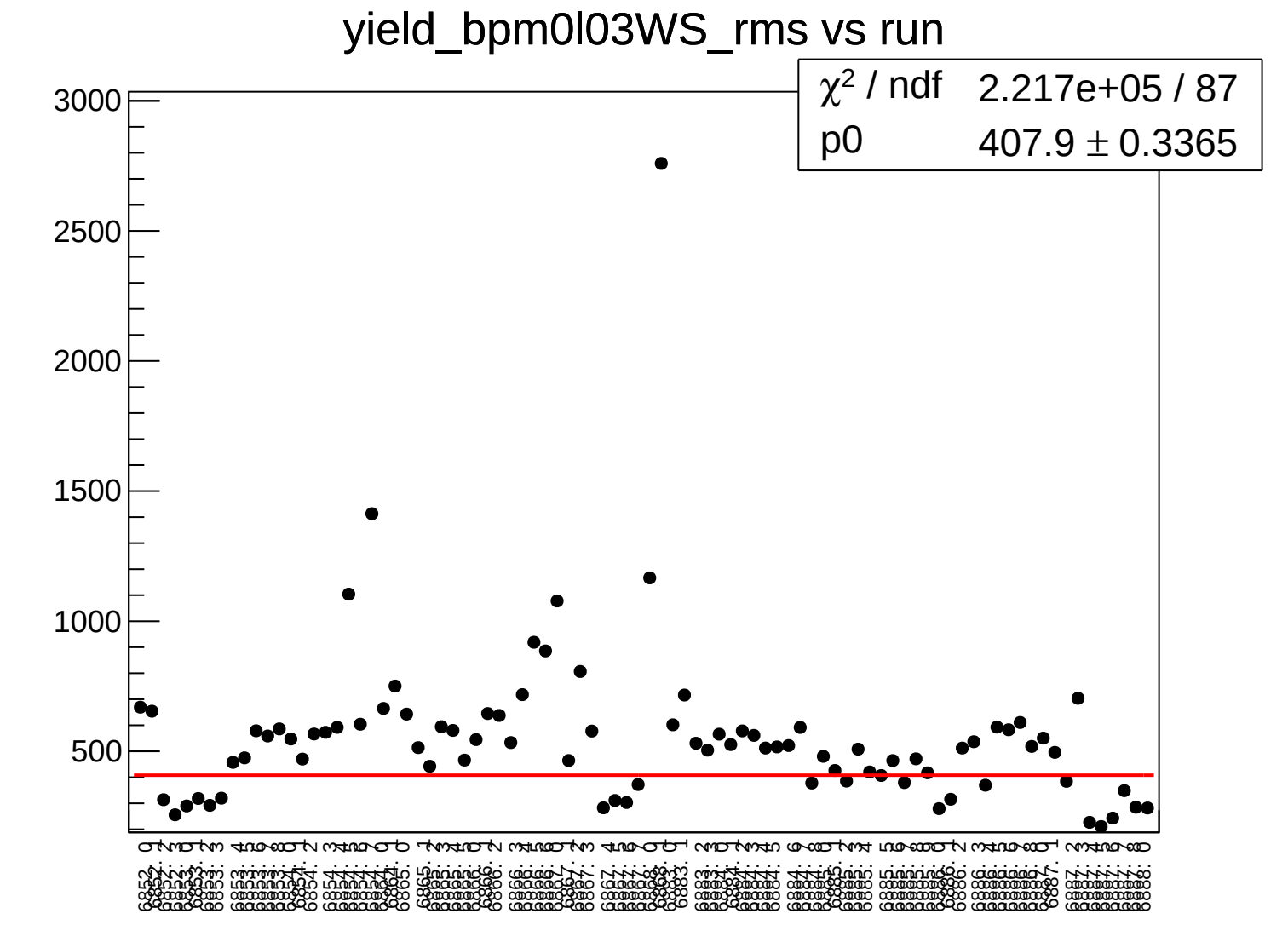

yield_bpm0l02WS_mean vs run
×10^3
χ^2 / ndf 5.126e+07 / 87
p0 1.246e+05 ± 0.3577
130
128
126
124
122
pull
Entries 88
Mean 127.9
Std Dev 0
1000
500
0
−500
−1000

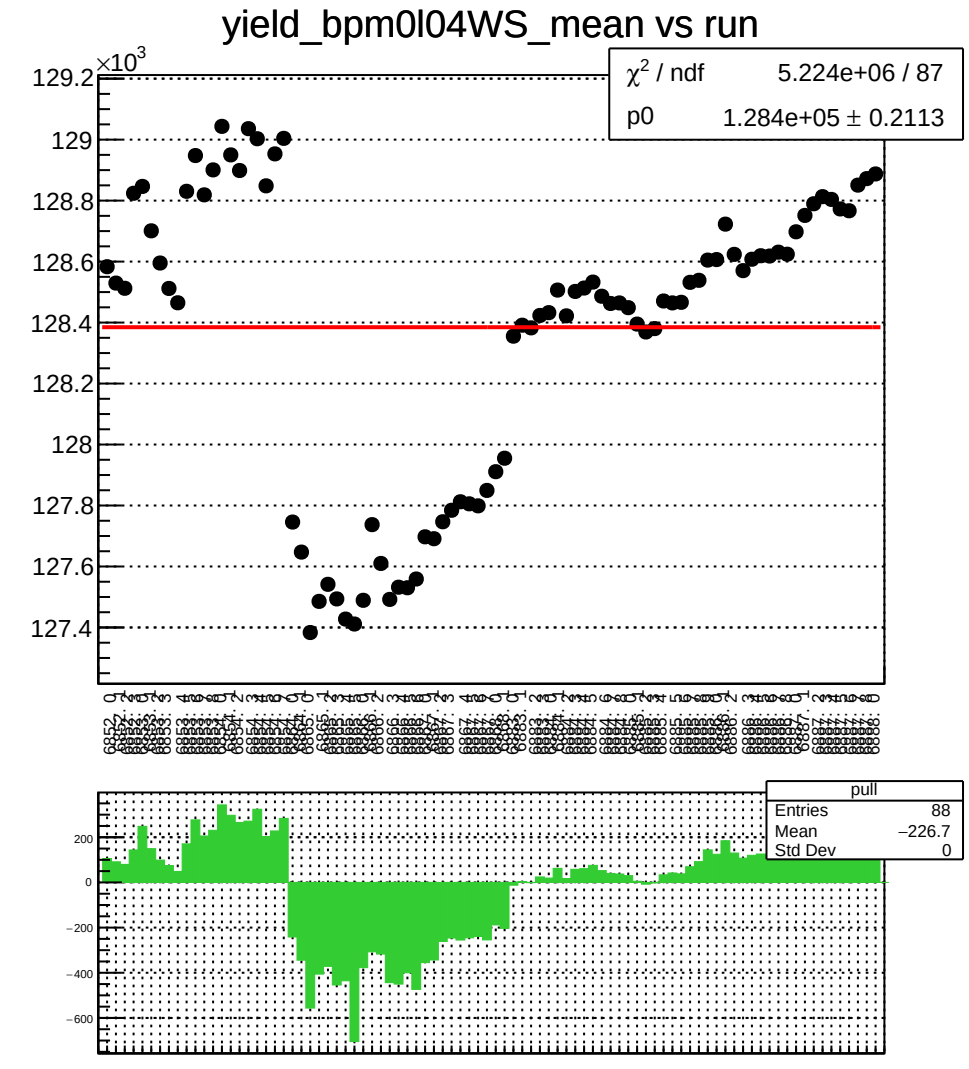

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

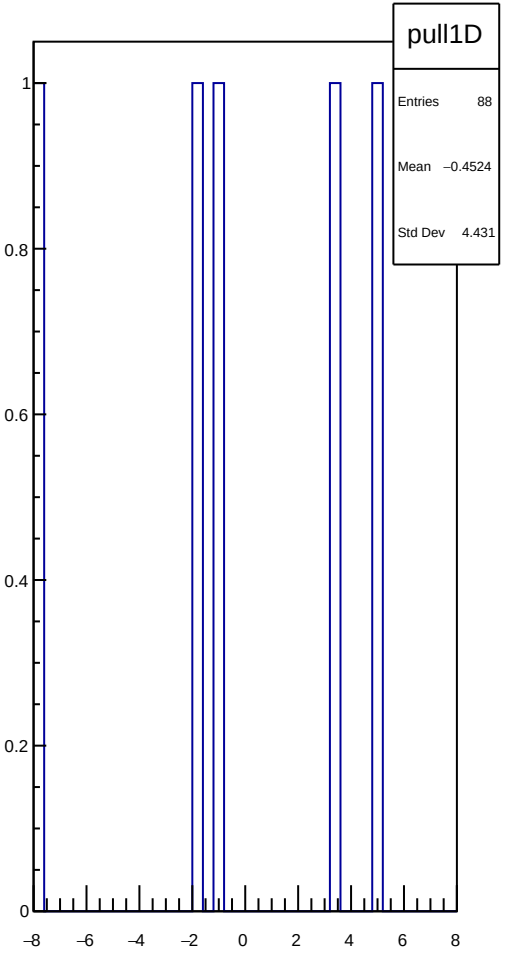

yield_bpm0l02WS_rms vs run
χ² / ndf 7.442e+04 / 87
p0 321.5 ± 0.2529
900
800
700
600
500
400
300
200

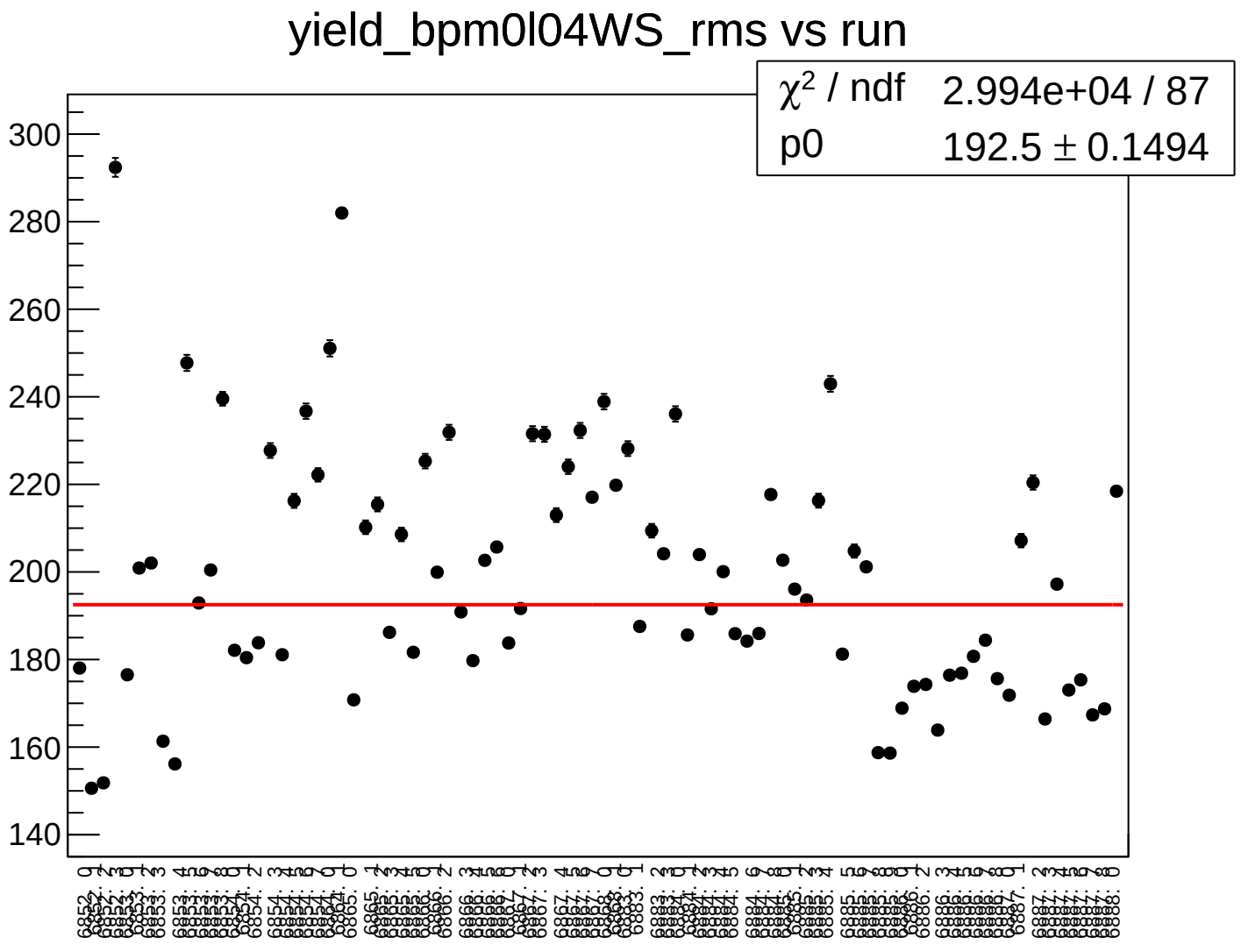

yield_bpm0l03WS_mean vs run
χ² / ndf 2.036e+06 / 87
p0 1.242e+05 ± 0.4759
×10³
126
125.5
125
124.5
124
123.5
123
pull
Entries 88
Mean 1718
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

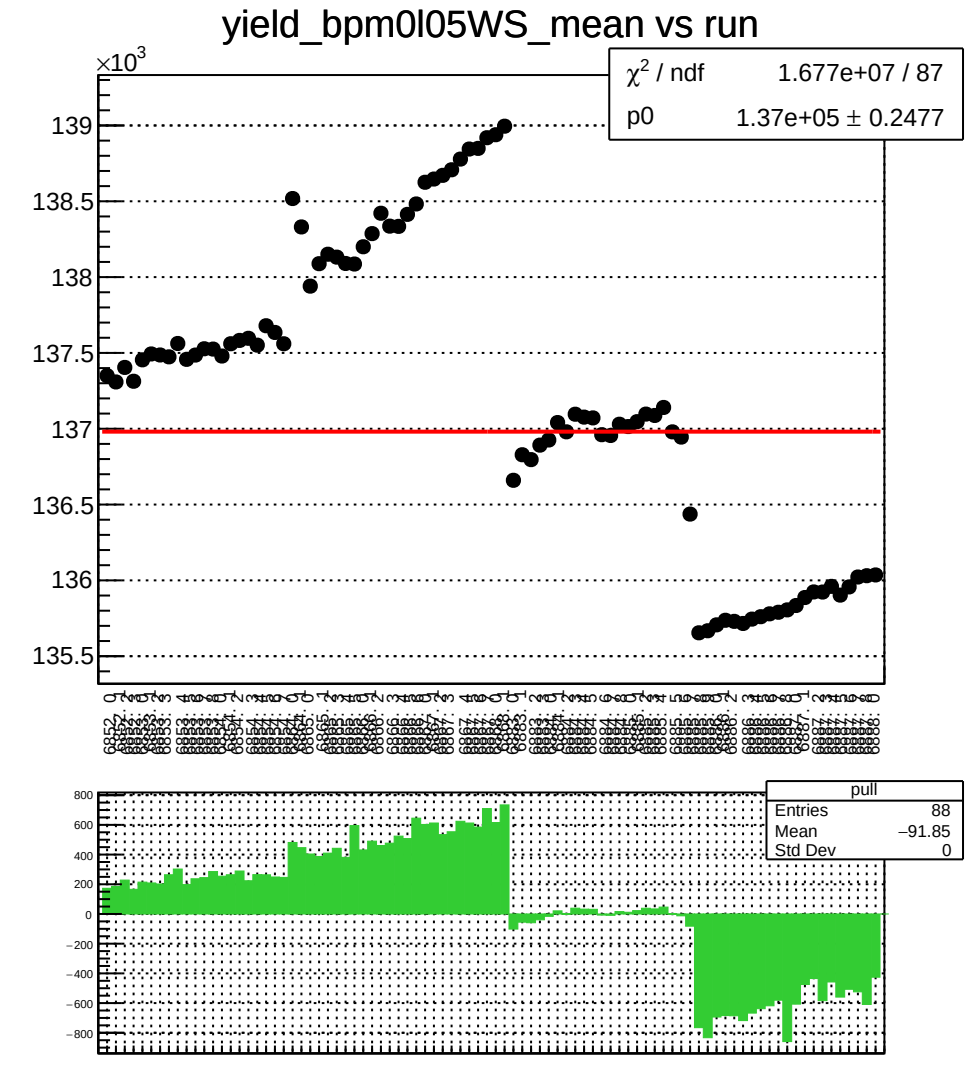

pull1D
Entries 88
Mean −0.5008
Std Dev 4.836
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

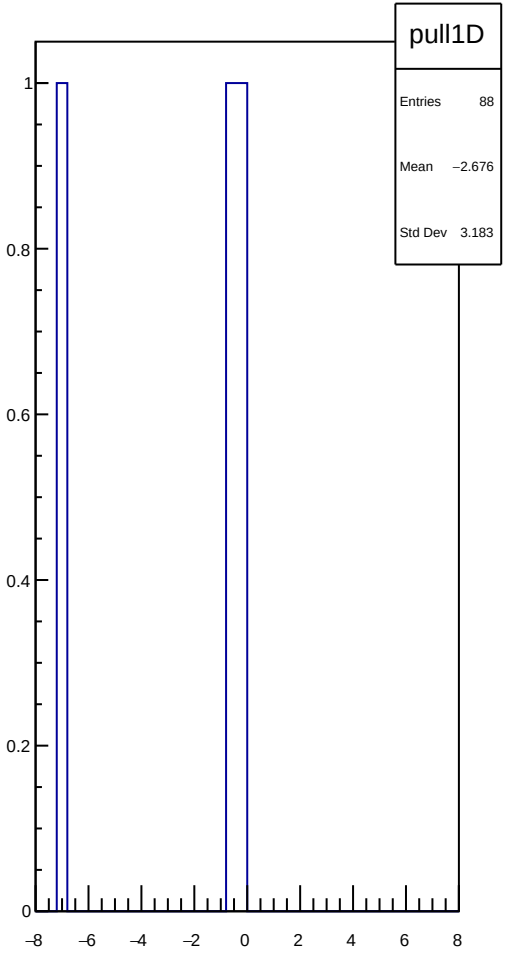

yield_bpm0l03WS_rms vs run
χ² / ndf 2.217e+05 / 87
p0 407.9 ± 0.3365
3000
2500
2000
1500
1000
500

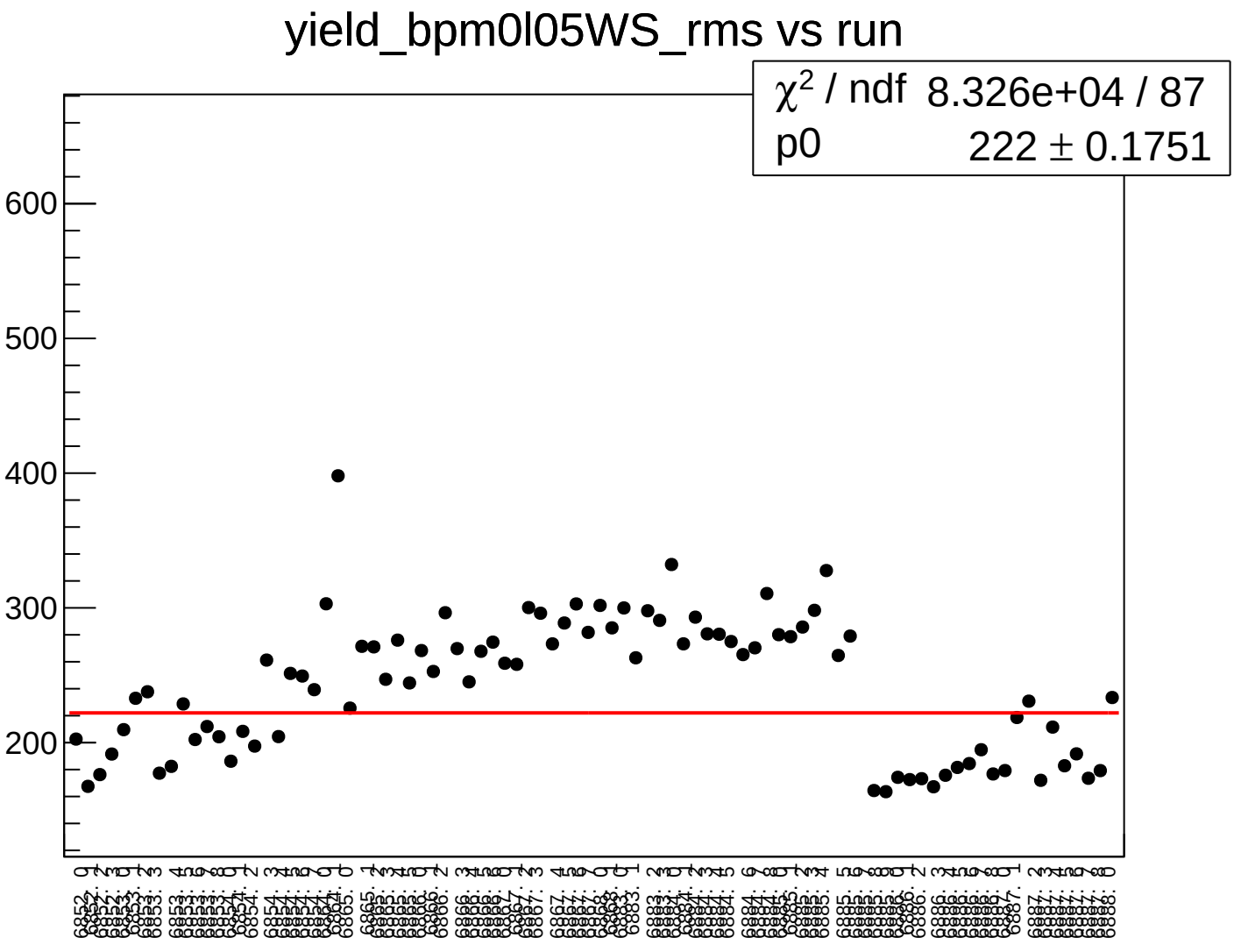

yield_bpm0l04WS_mean vs run
×10^3
129.2
129
128.8
128.6
128.4
128.2
128
127.8
127.6
127.4
χ² / ndf 5.224e+06 / 87
p0 1.284e+05 ± 0.2113
pull
Entries 88
Mean −226.7
Std Dev 0
200
0
−200
−400
−600

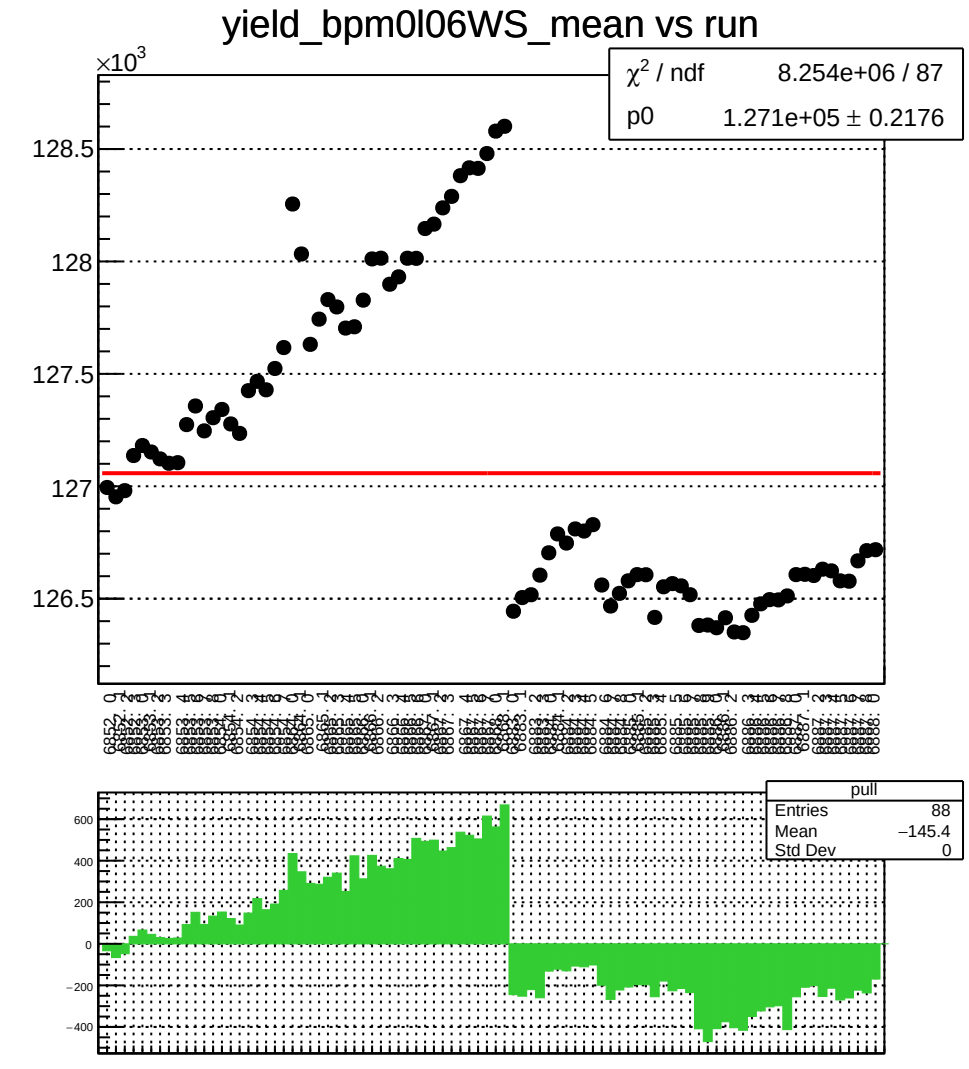

pull1D
Entries 88
Mean −0.4524
Std Dev 4.431
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

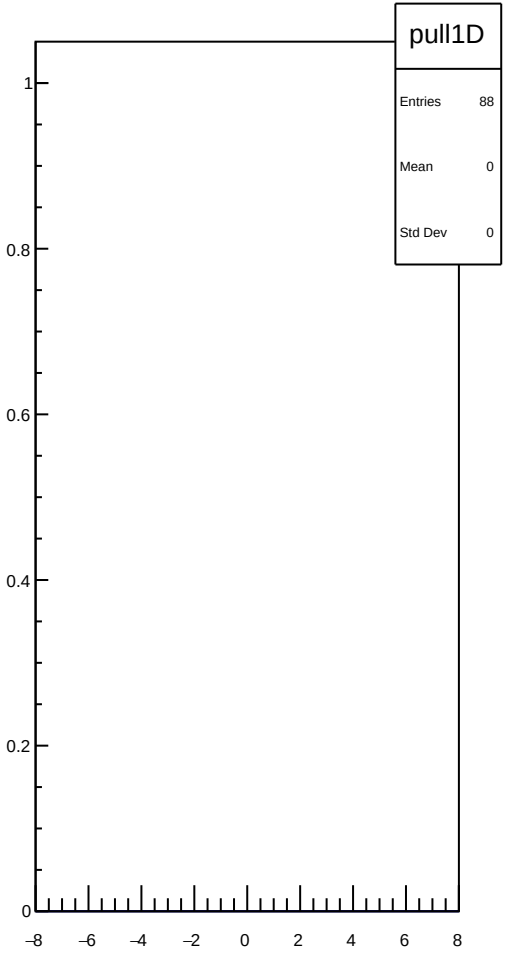

yield_bpm0l04WS_rms vs run
χ² / ndf 2.994e+04 / 87
p0 192.5 ± 0.1494
300
280
260
240
220
200
180
160
140

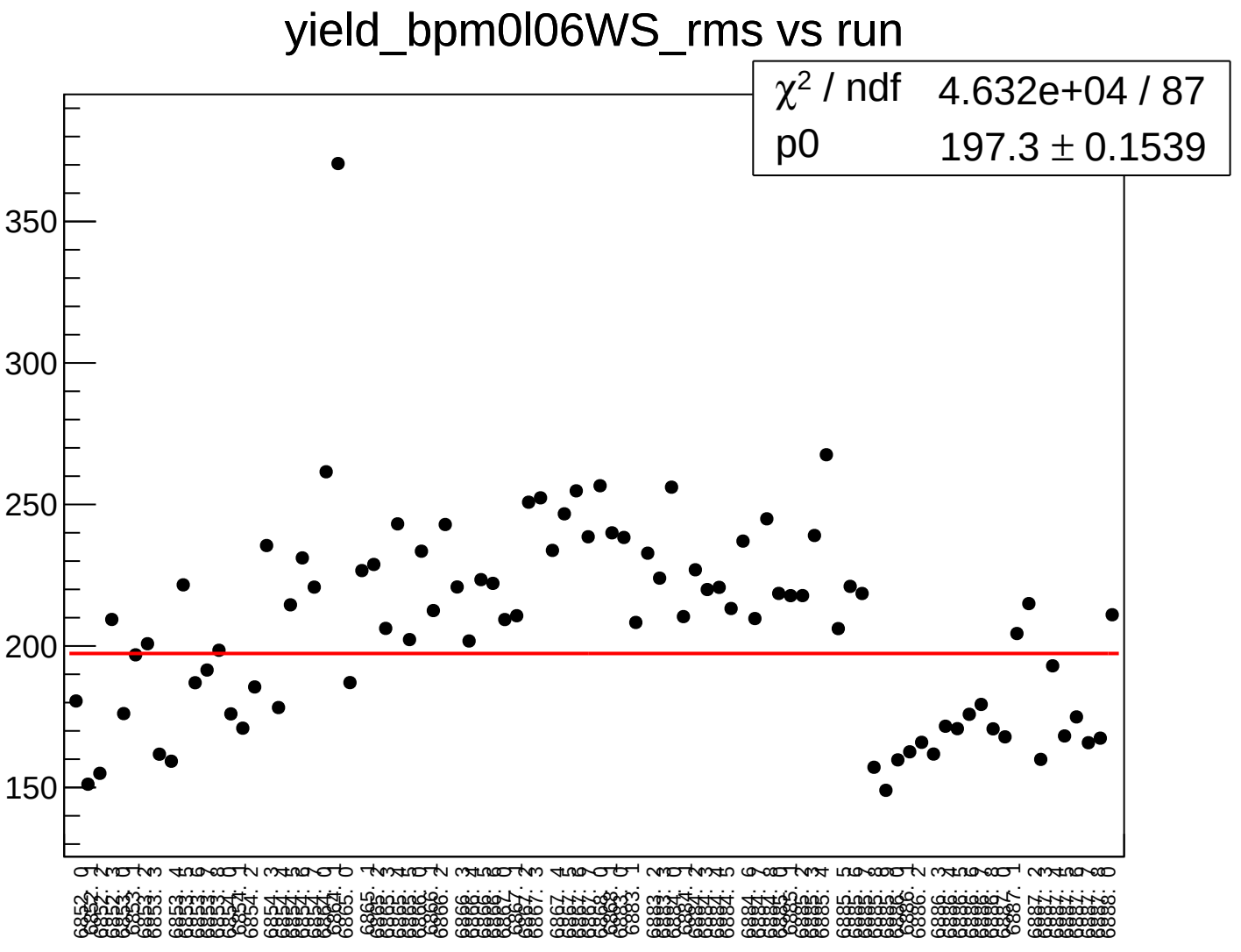

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.677e+07 / 87
p0 1.37e+05 ± 0.2477
139
138.5
138
137.5
137
136.5
136
135.5
pull
Entries 88
Mean −91.85
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

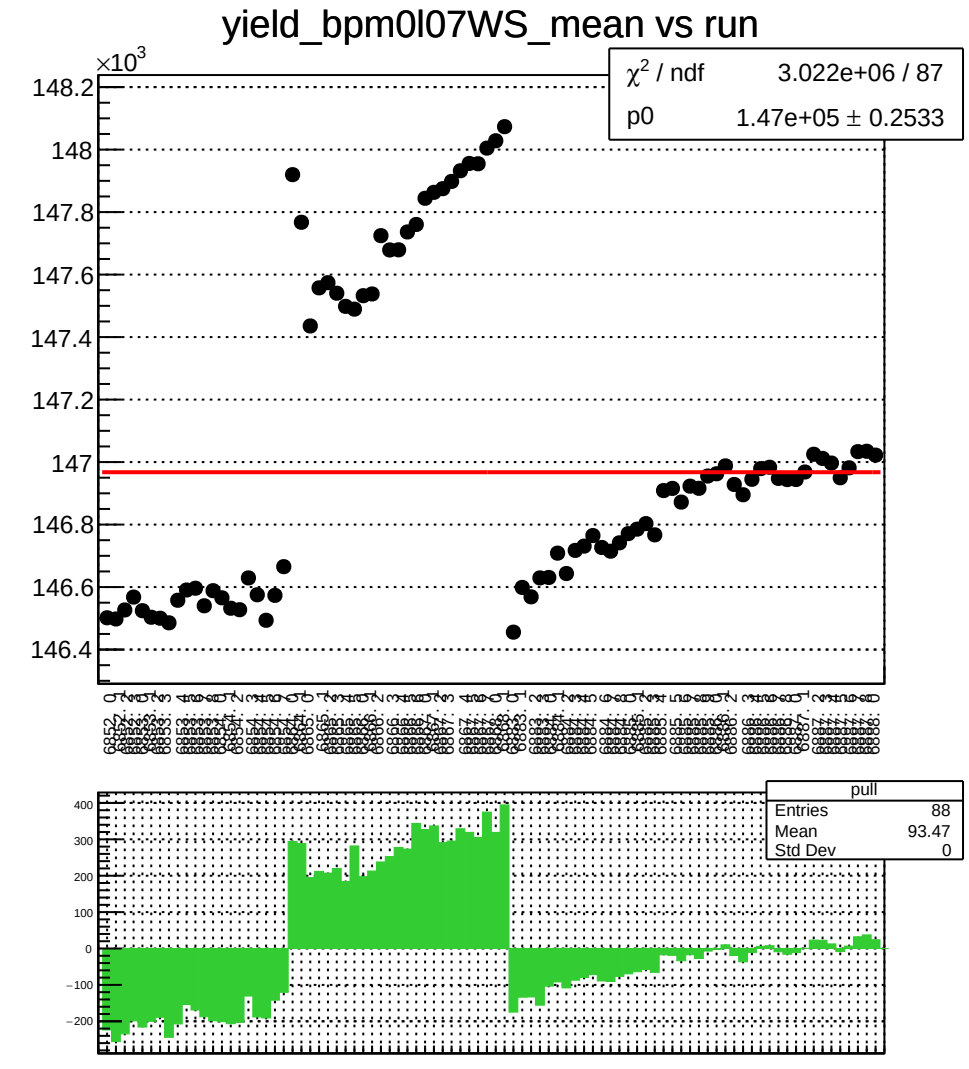

pull1D
Entries 88
Mean −2.676
Std Dev 3.183
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

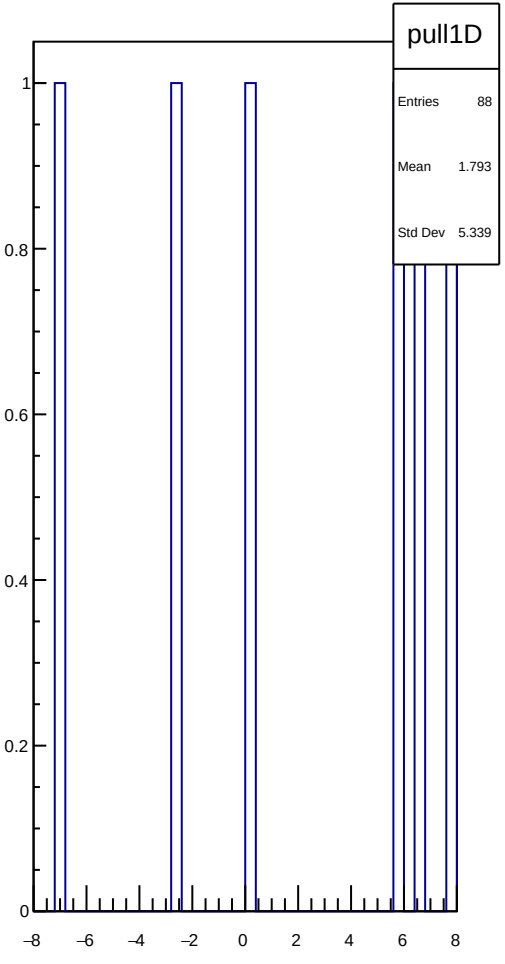

yield_bpm0l05WS_rms vs run
χ² / ndf 8.326e+04 / 87
p0 222 ± 0.1751
600
500
400
300
200

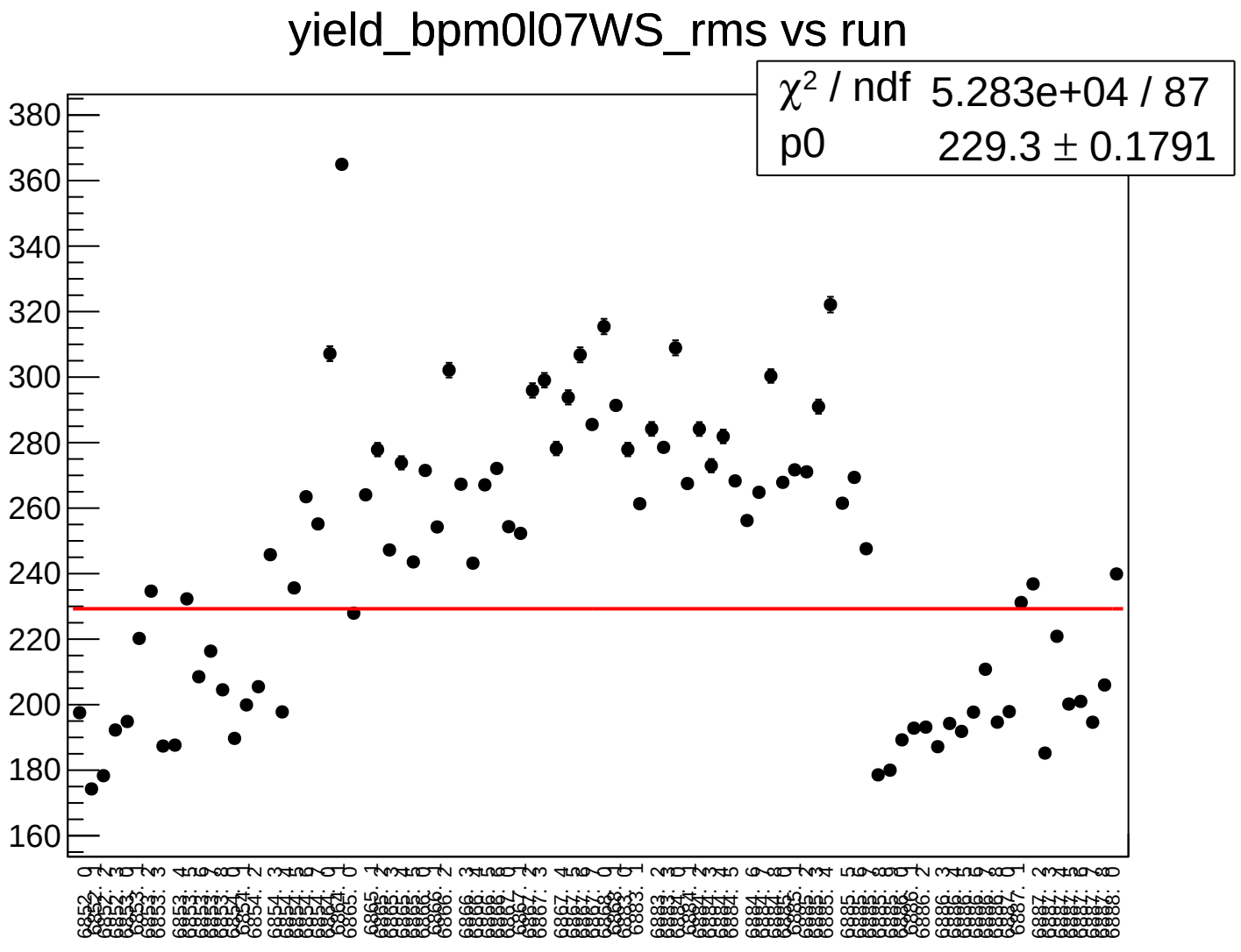

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 8.254e+06 / 87
p0 1.271e+05 ± 0.2176
128.5
128
127.5
127
126.5
pull
Entries 88
Mean −145.4
Std Dev 0
600
400
200
0
−200
−400

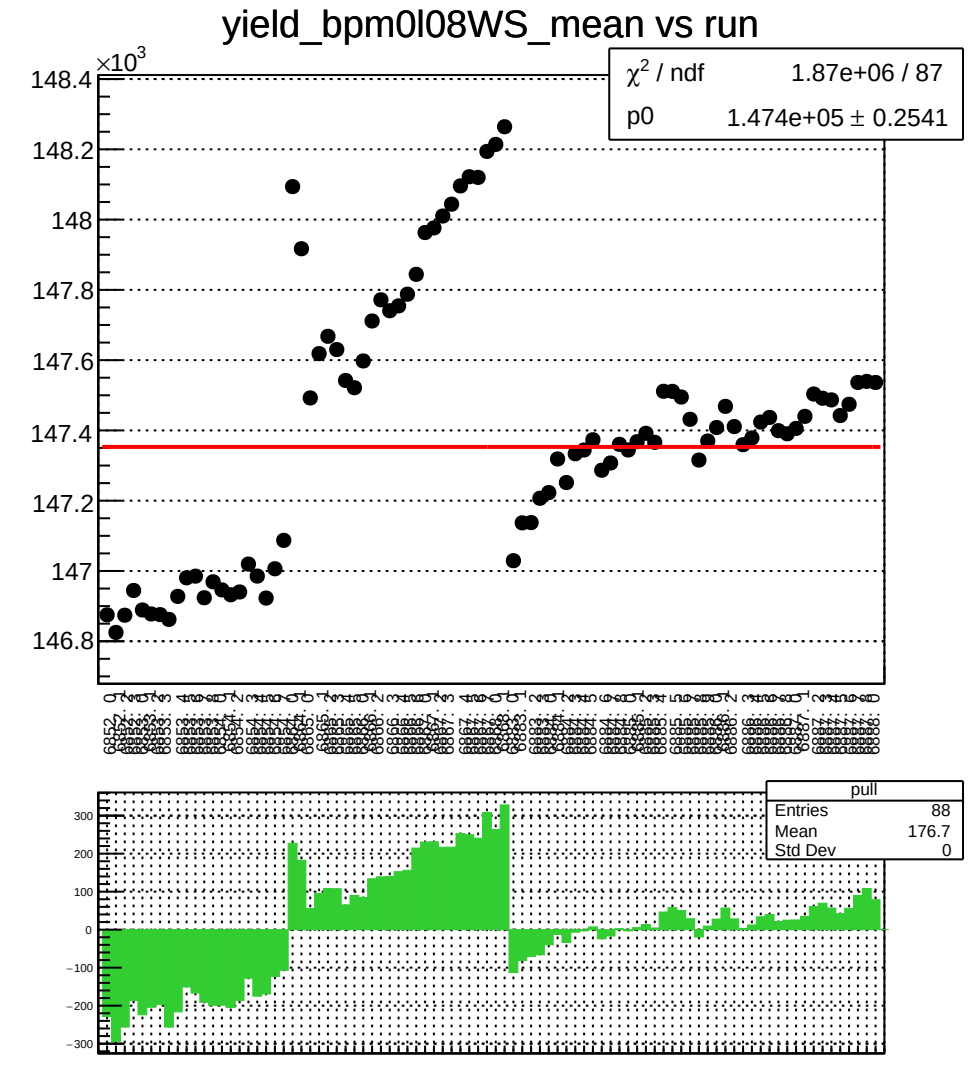

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

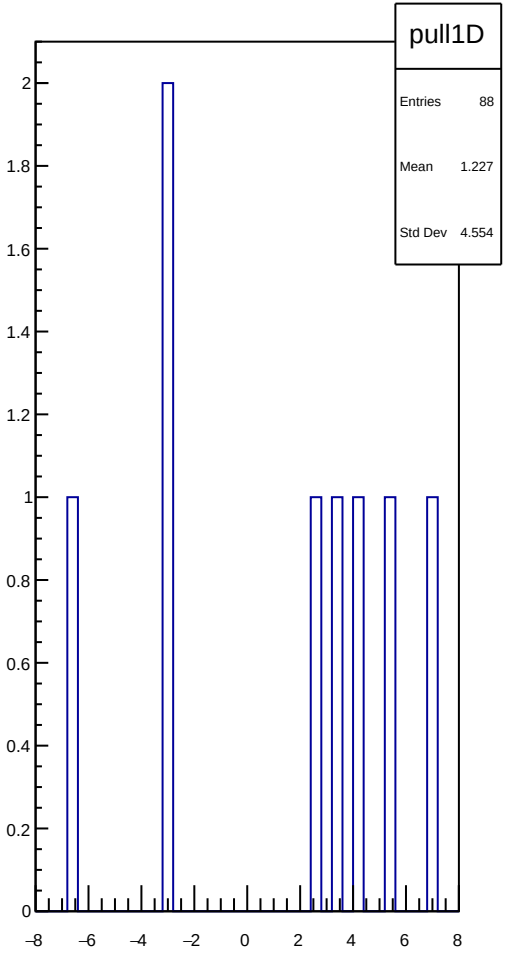

yield_bpm0l06WS_rms vs run
χ² / ndf 4.632e+04 / 87
p0 197.3 ± 0.1539
350
300
250
200
150

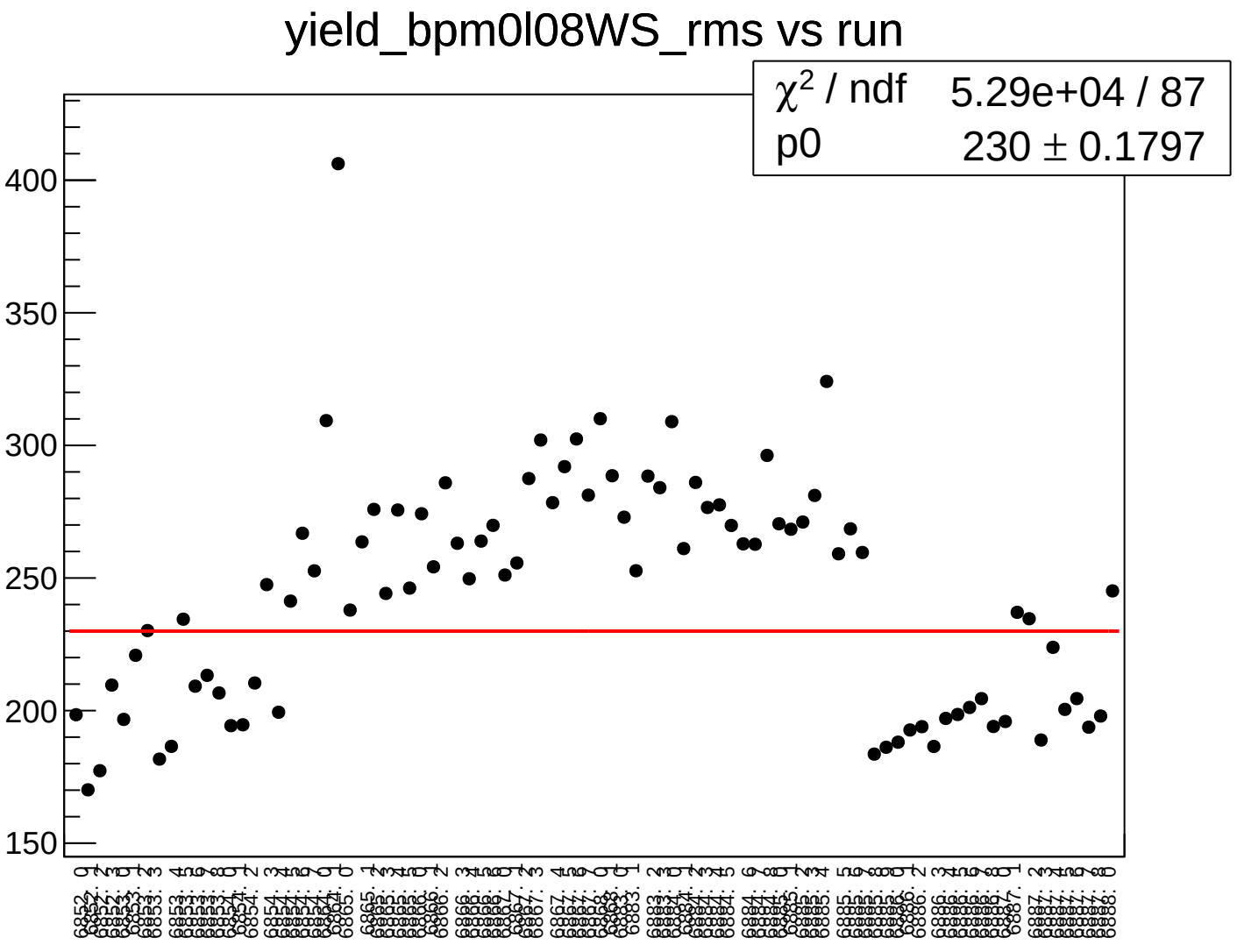

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 3.022e+06 / 87
p0 1.47e+05 ± 0.2533
148.2
148
147.8
147.6
147.4
147.2
147
146.8
146.6
146.4
pull
Entries 88
Mean 93.47
Std Dev 0
400
300
200
100
0
−100
−200

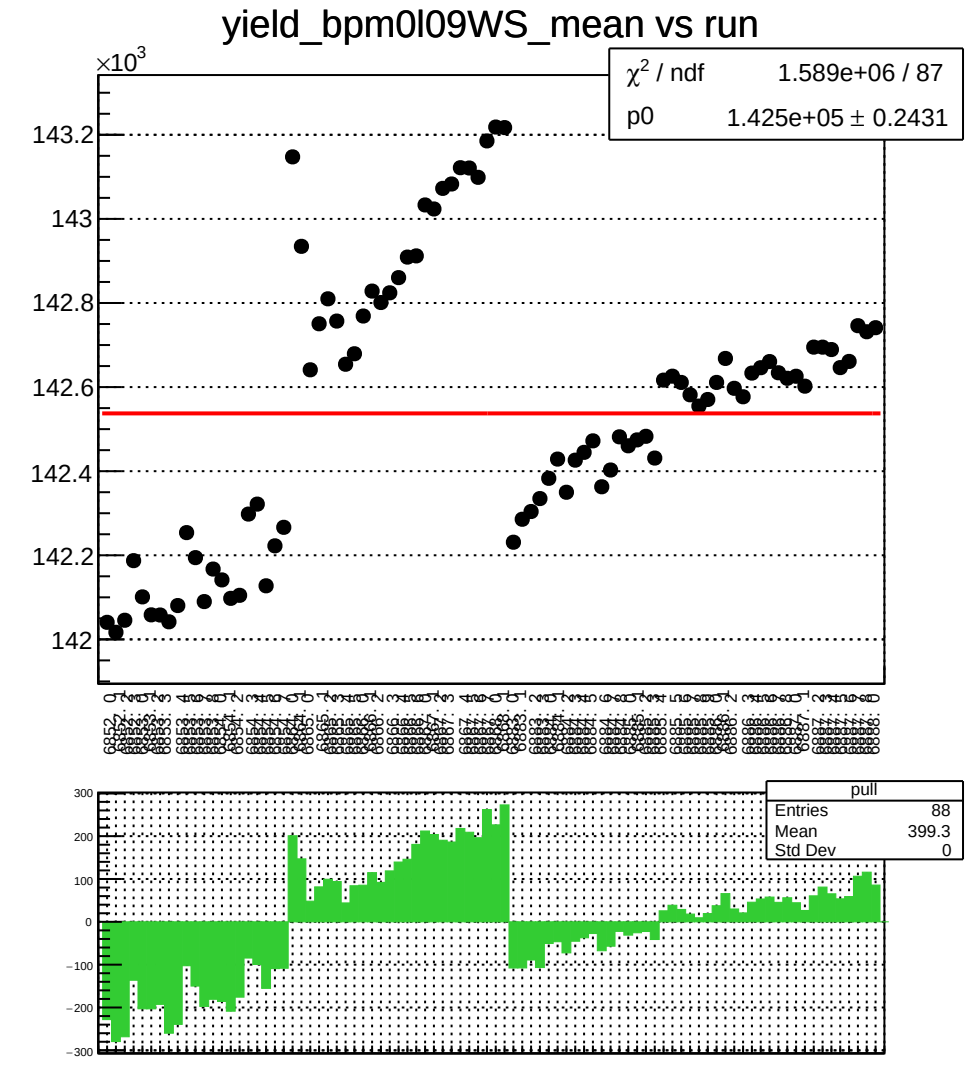

pull1D
Entries 88
Mean 1.793
Std Dev 5.339
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

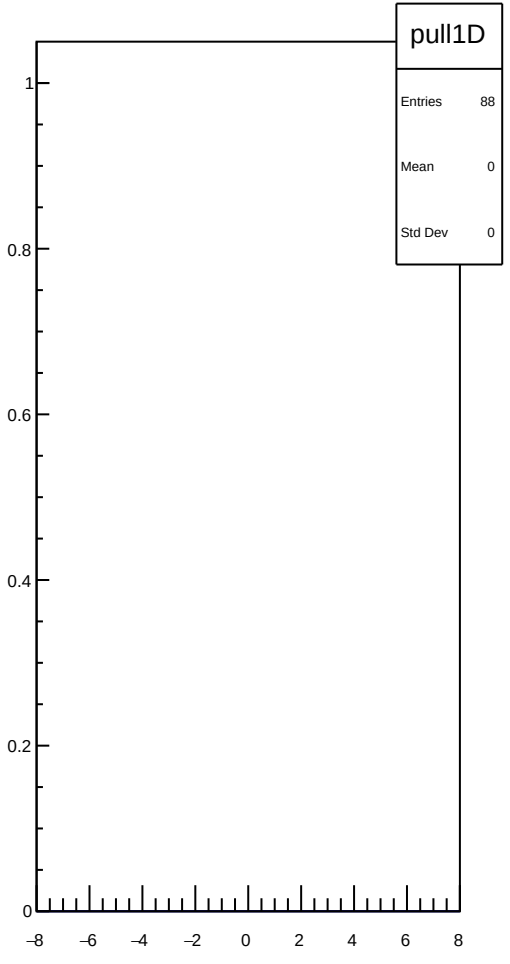

yield_bpm0l07WS_rms vs run
χ² / ndf 5.283e+04 / 87
p0 229.3 ± 0.1791
380
360
340
320
300
280
260
240
220
200
180
160

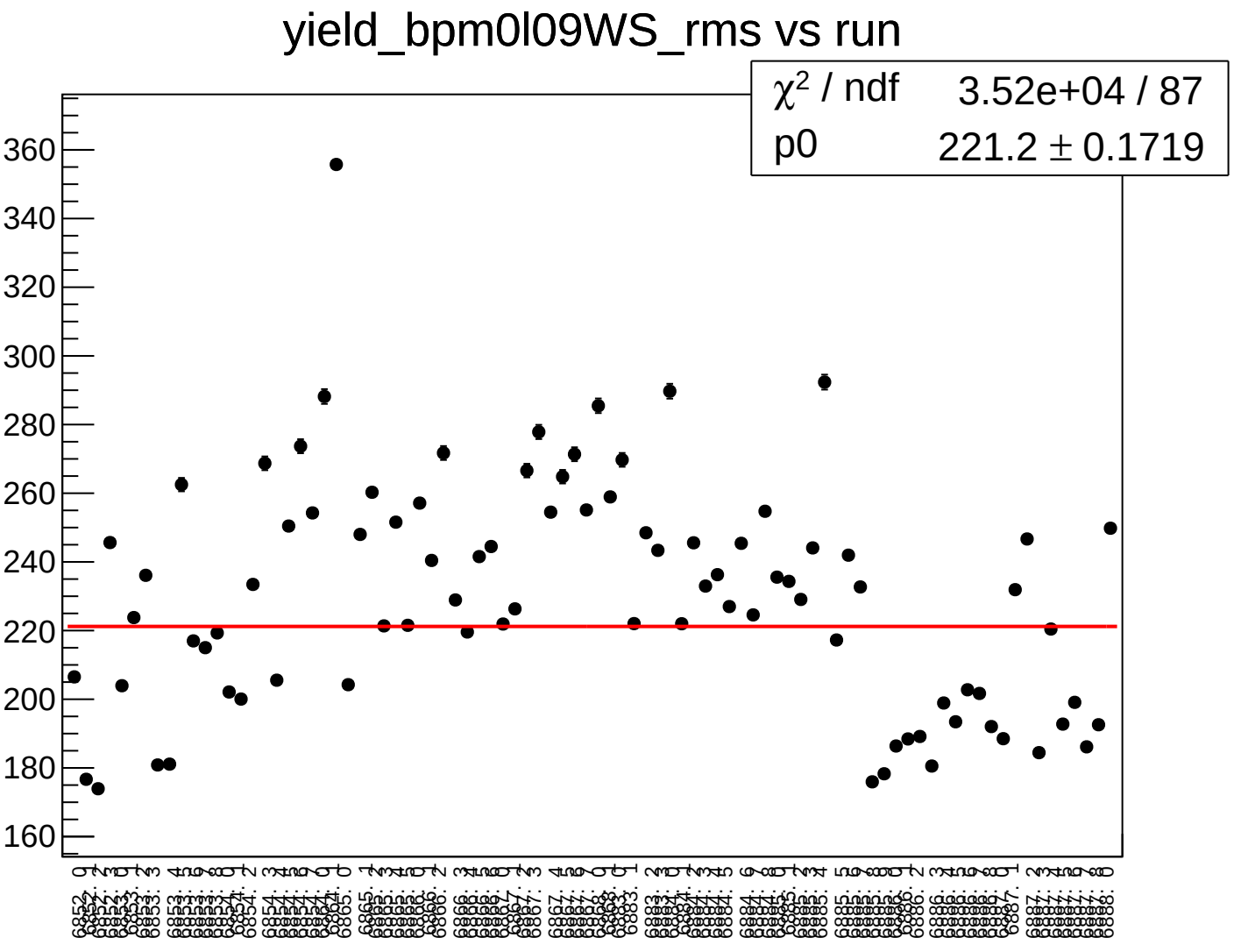

yield_bpm0l08WS_mean vs run
×10^3
χ^2 / ndf 1.87e+06 / 87
p0 1.474e+05 ± 0.2541
148.4
148.2
148
147.8
147.6
147.4
147.2
147
146.8
pull
Entries 88
Mean 176.7
Std Dev 0
300
200
100
0
−100
−200
−300

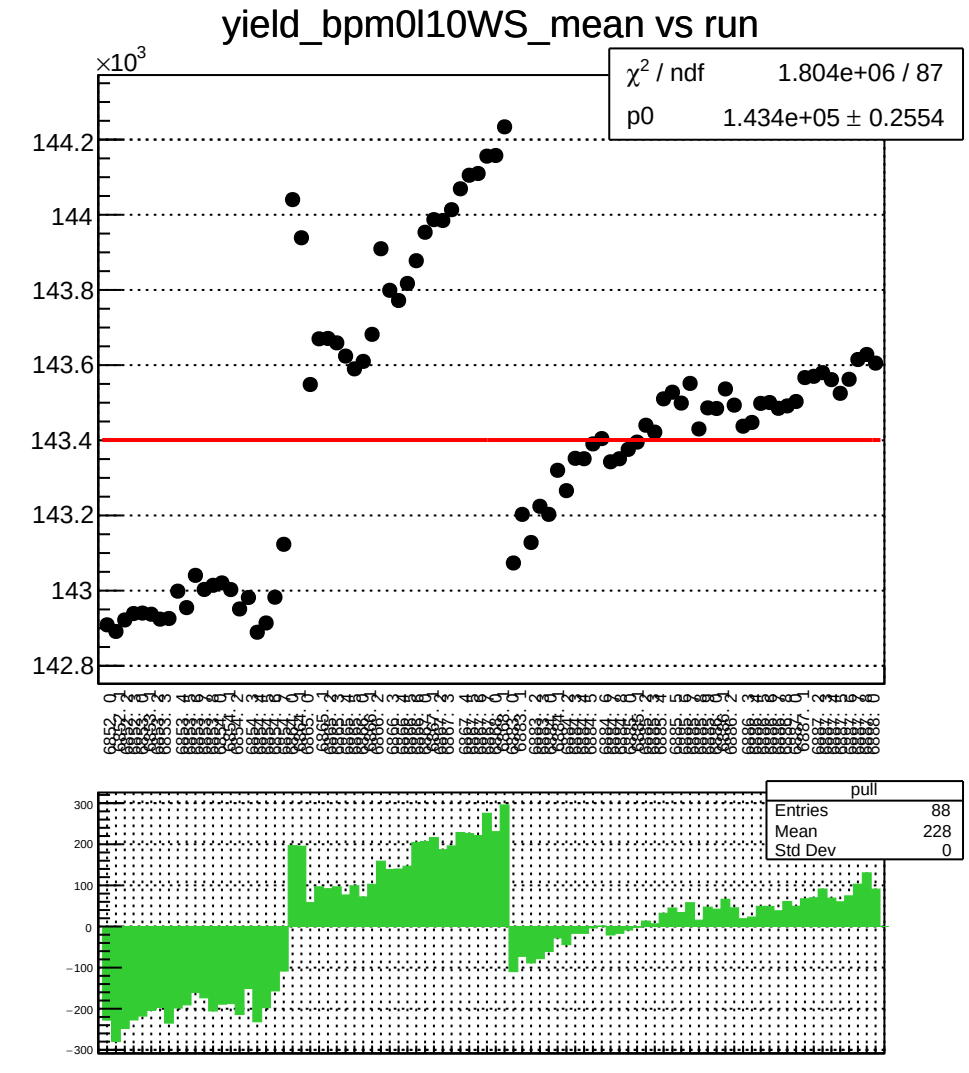

pull1D
Entries 88
Mean 1.227
Std Dev 4.554
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

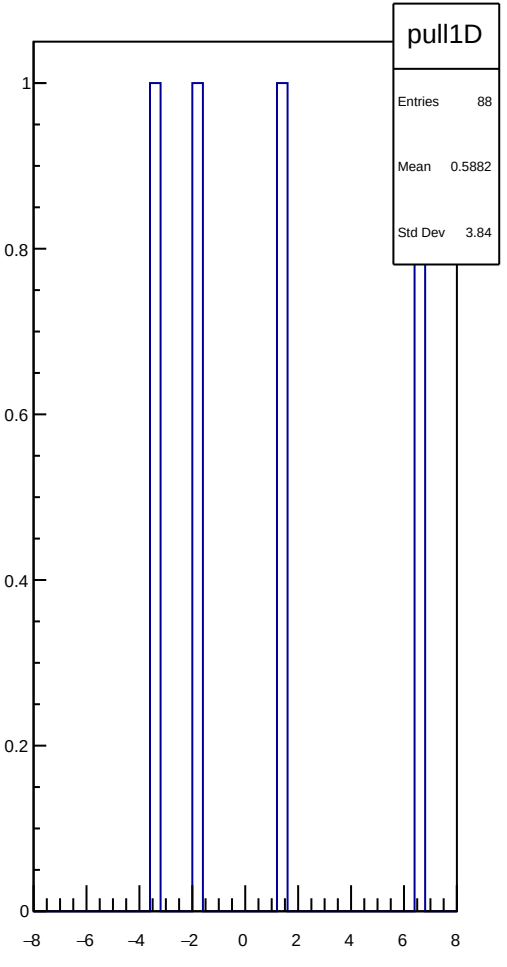

yield_bpm0l08WS_rms vs run
χ² / ndf 5.29e+04 / 87
p0 230 ± 0.1797
400
350
300
250
200
150

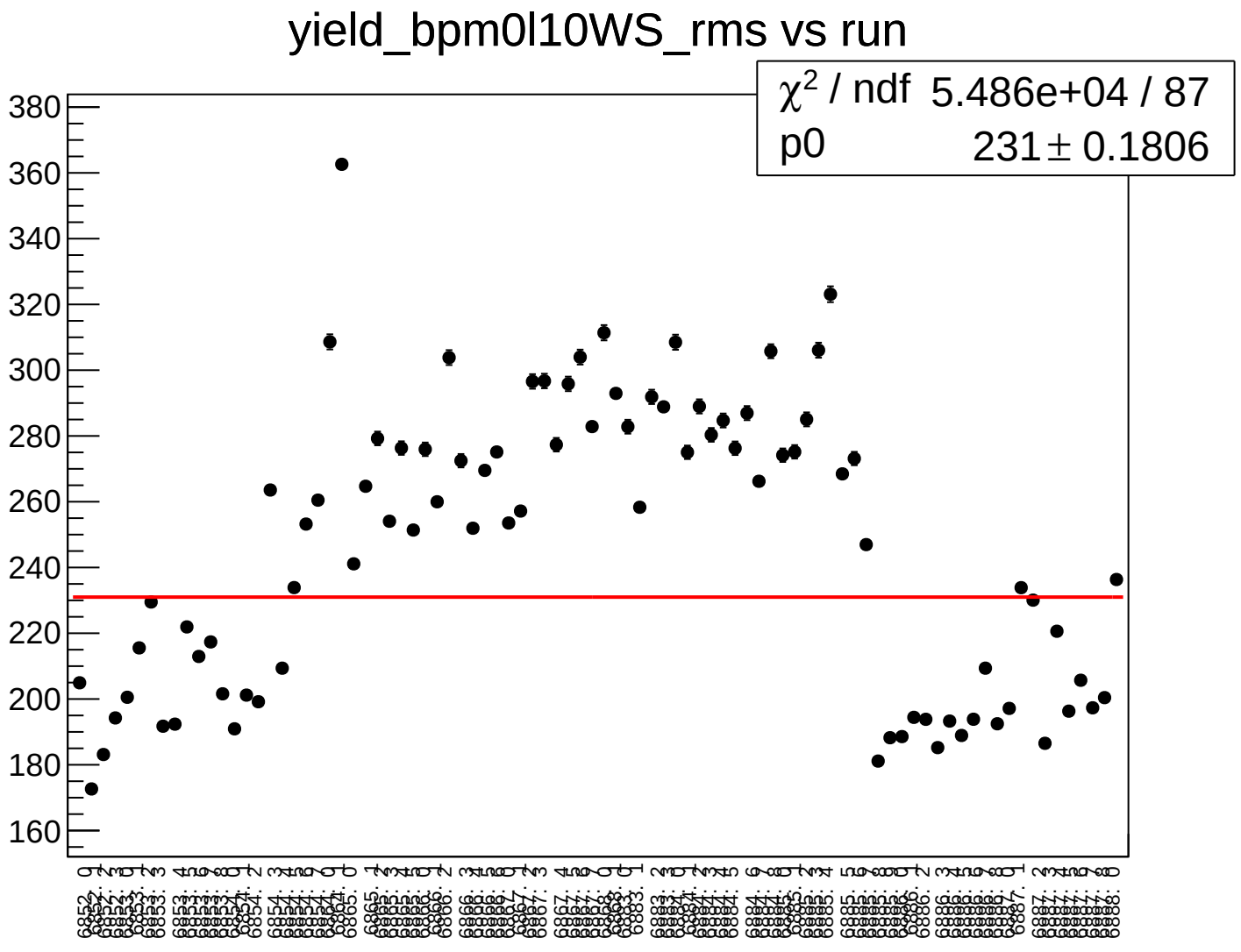

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.589e+06 / 87
p0 1.425e+05 ± 0.2431
143.2
143
142.8
142.6
142.4
142.2
142
pull
Entries 88
Mean 399.3
Std Dev 0
300
200
100
0
−100
−200
−300

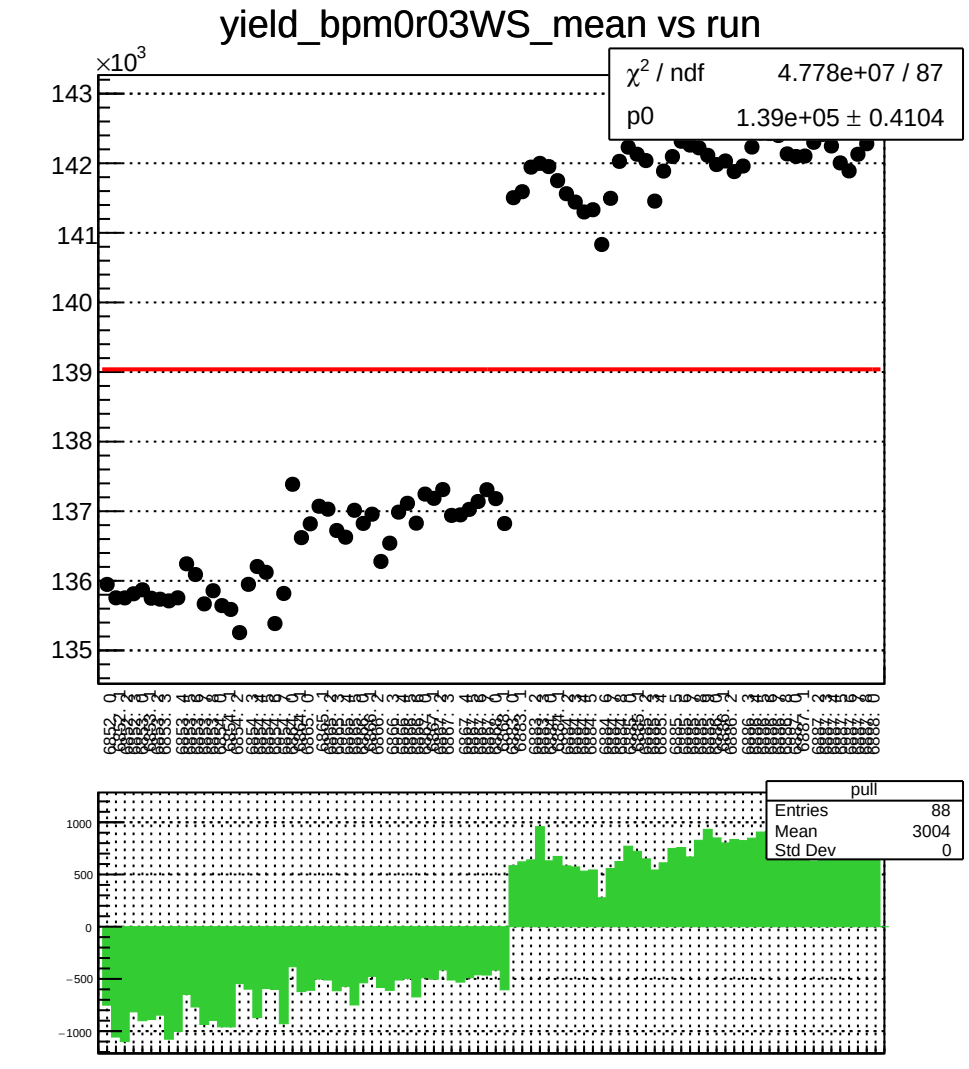

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

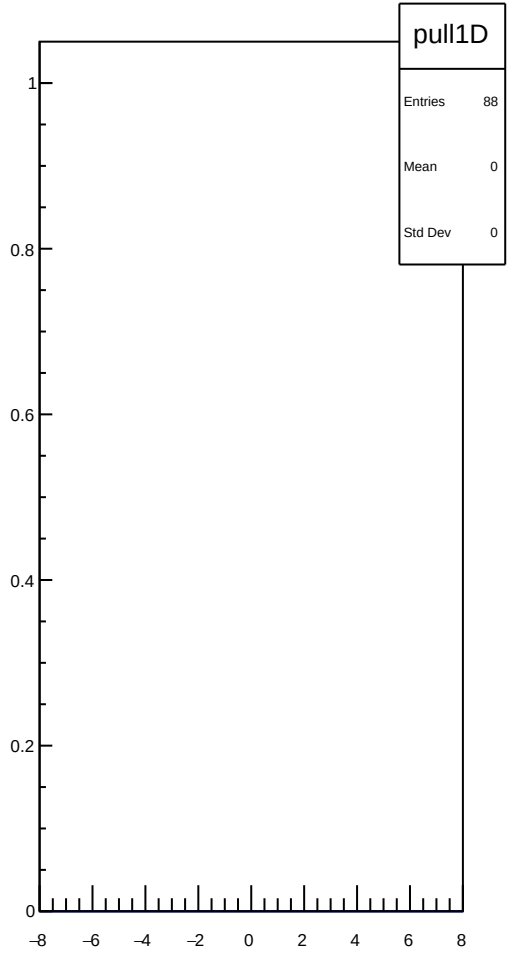

yield_bpm0l09WS_rms vs run
χ² / ndf 3.52e+04 / 87
p0 221.2 ± 0.1719
360
340
320
300
280
260
240
220
200
180
160

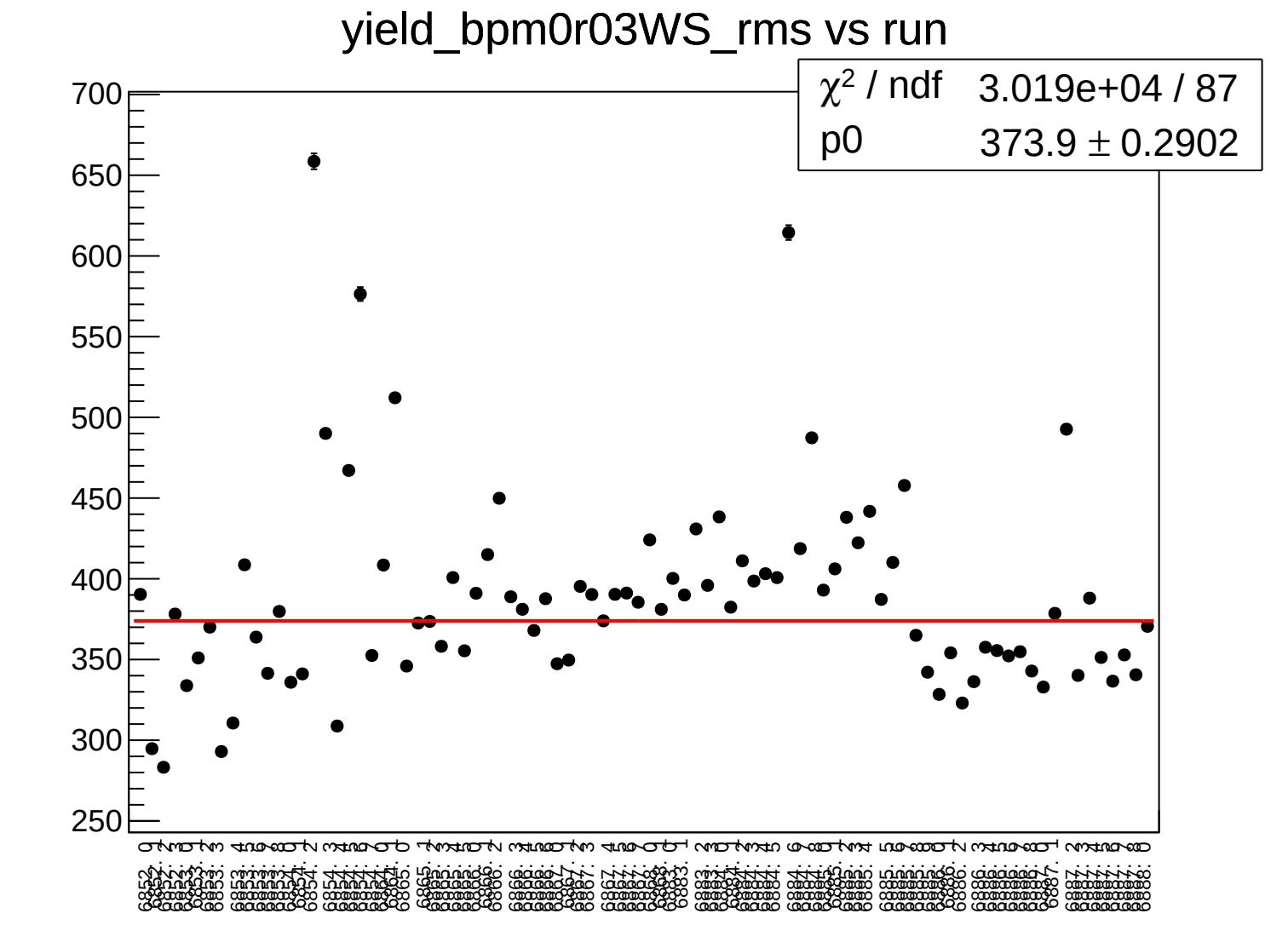

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.804e+06 / 87
p0 1.434e+05 ± 0.2554
144.2
144
143.8
143.6
143.4
143.2
143
142.8
pull
Entries 88
Mean 228
Std Dev 0
300
200
100
0
−100
−200
−300

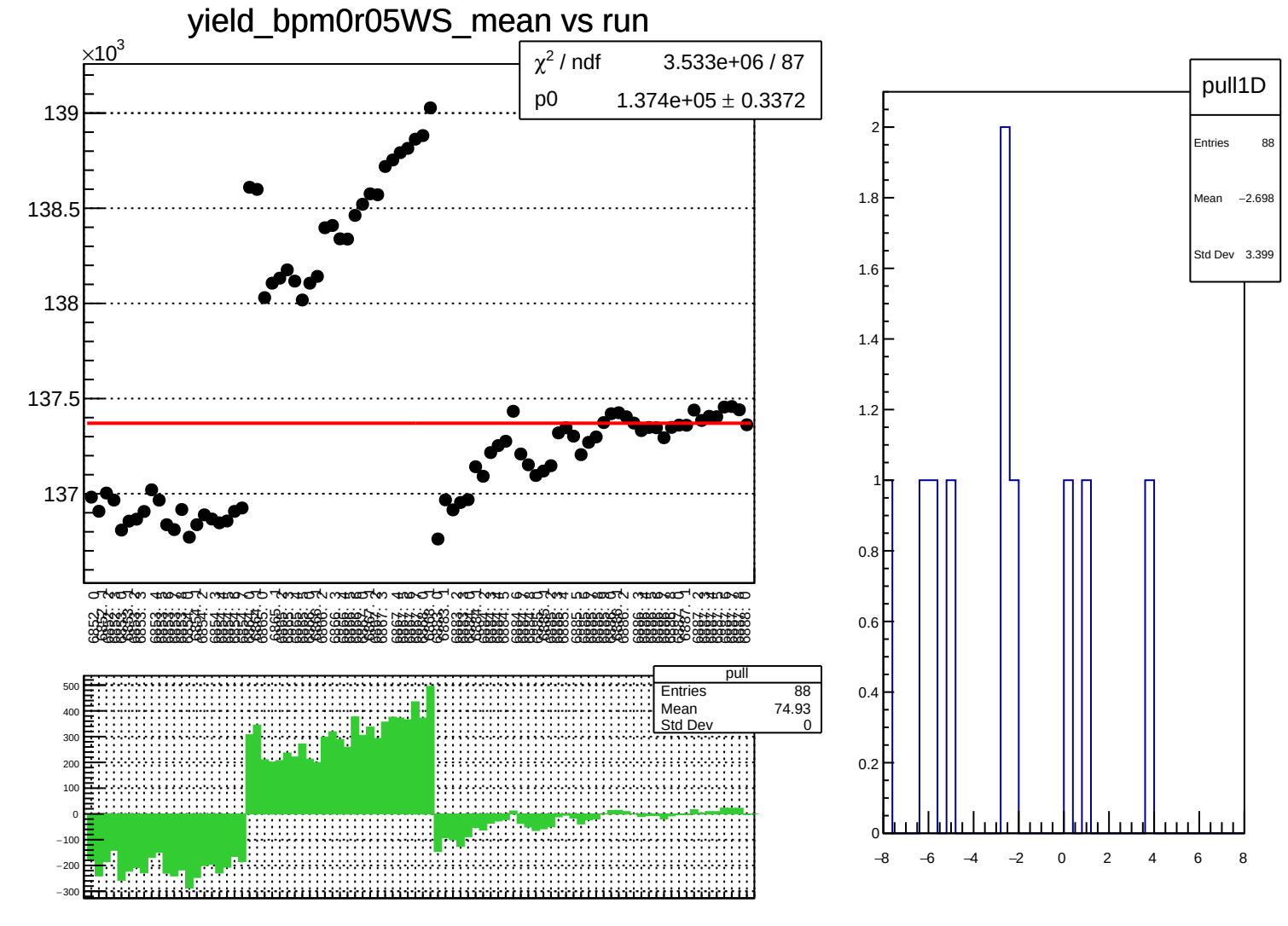

pull1D
Entries 88
Mean 0.5882
Std Dev 3.84
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

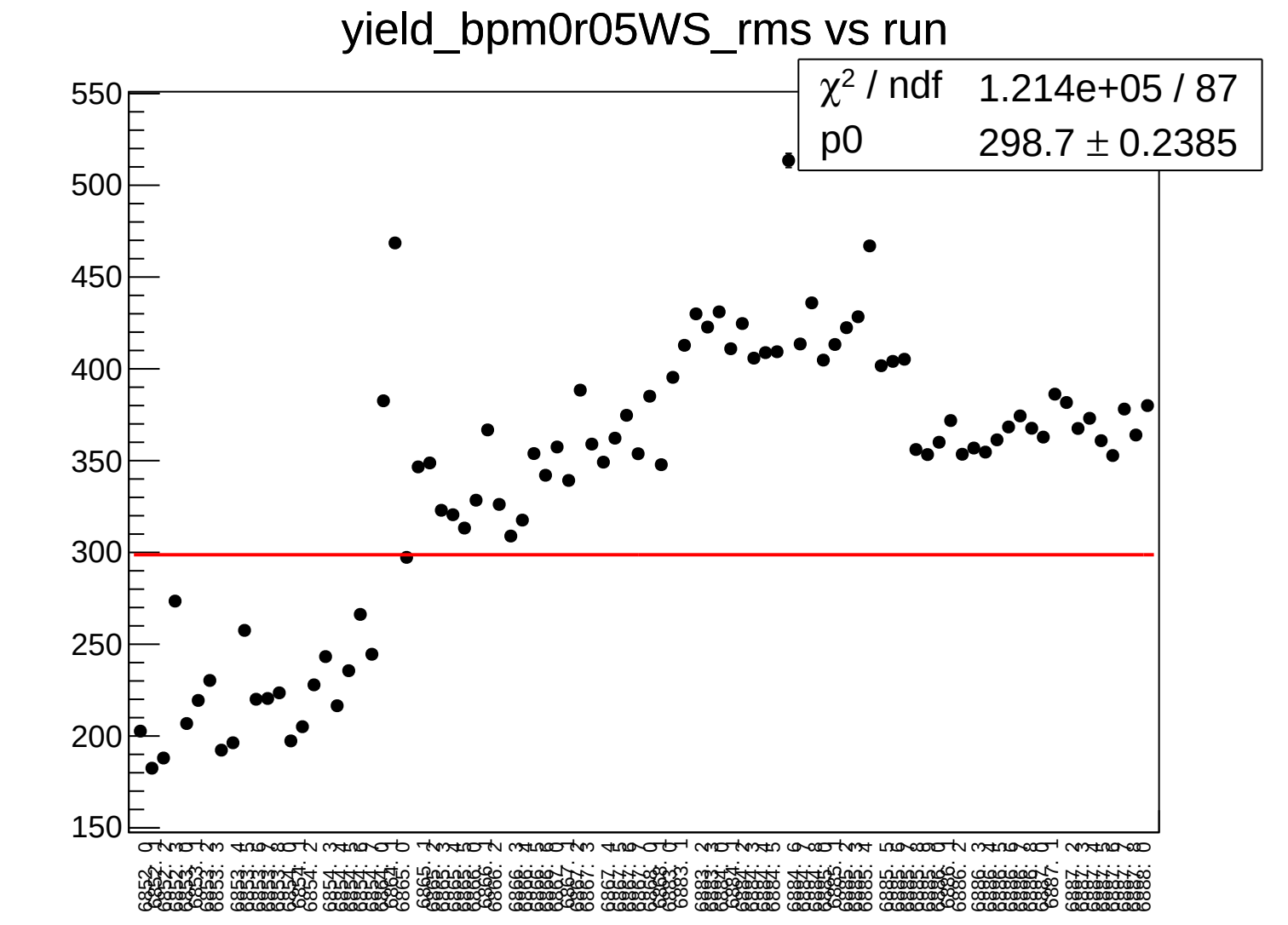

yield_bpm0l10WS_rms vs run
χ² / ndf 5.486e+04 / 87
p0 231 ± 0.1806
380
360
340
320
300
280
260
240
220
200
180
160

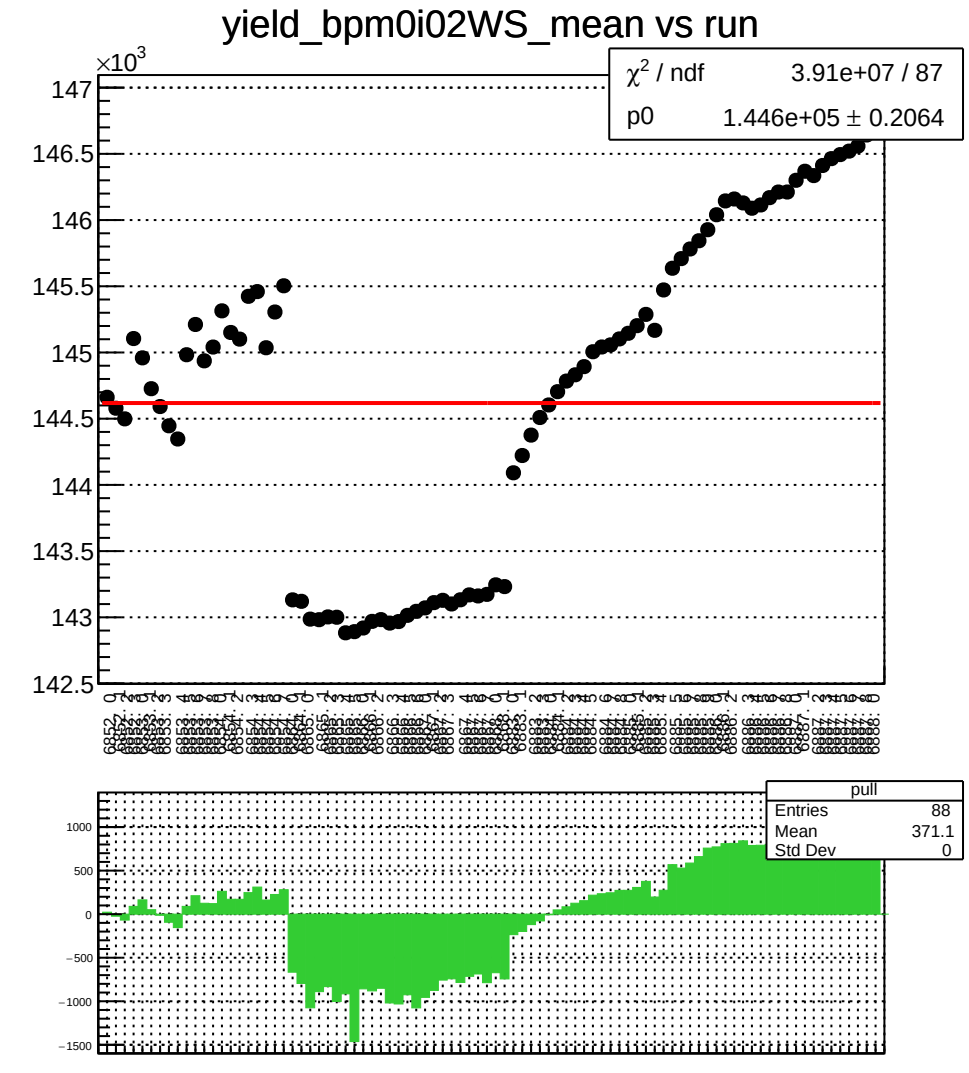

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 4.778e+07 / 87
p0 1.39e+05 ± 0.4104
143
142
141
140
139
138
137
136
135
pull
Entries 88
Mean 3004
Std Dev 0
1000
500
0
−500
−1000

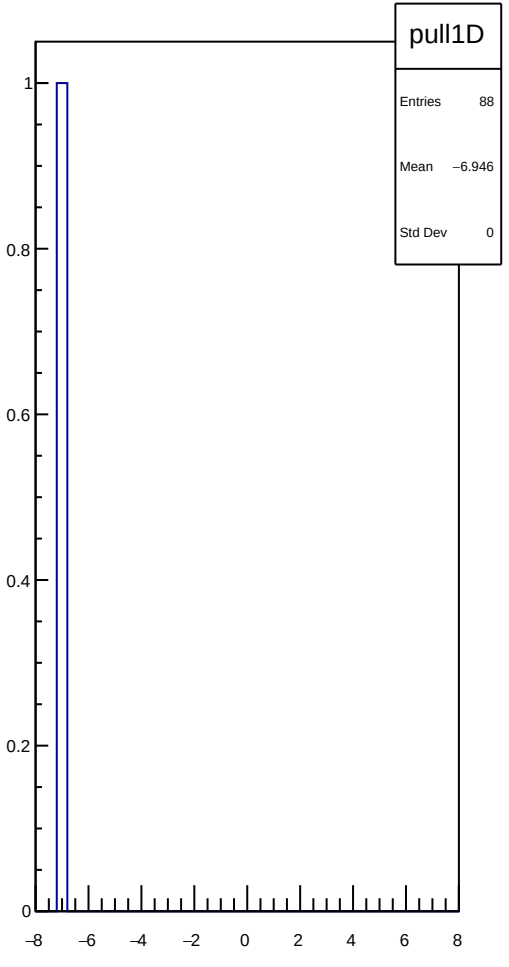

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

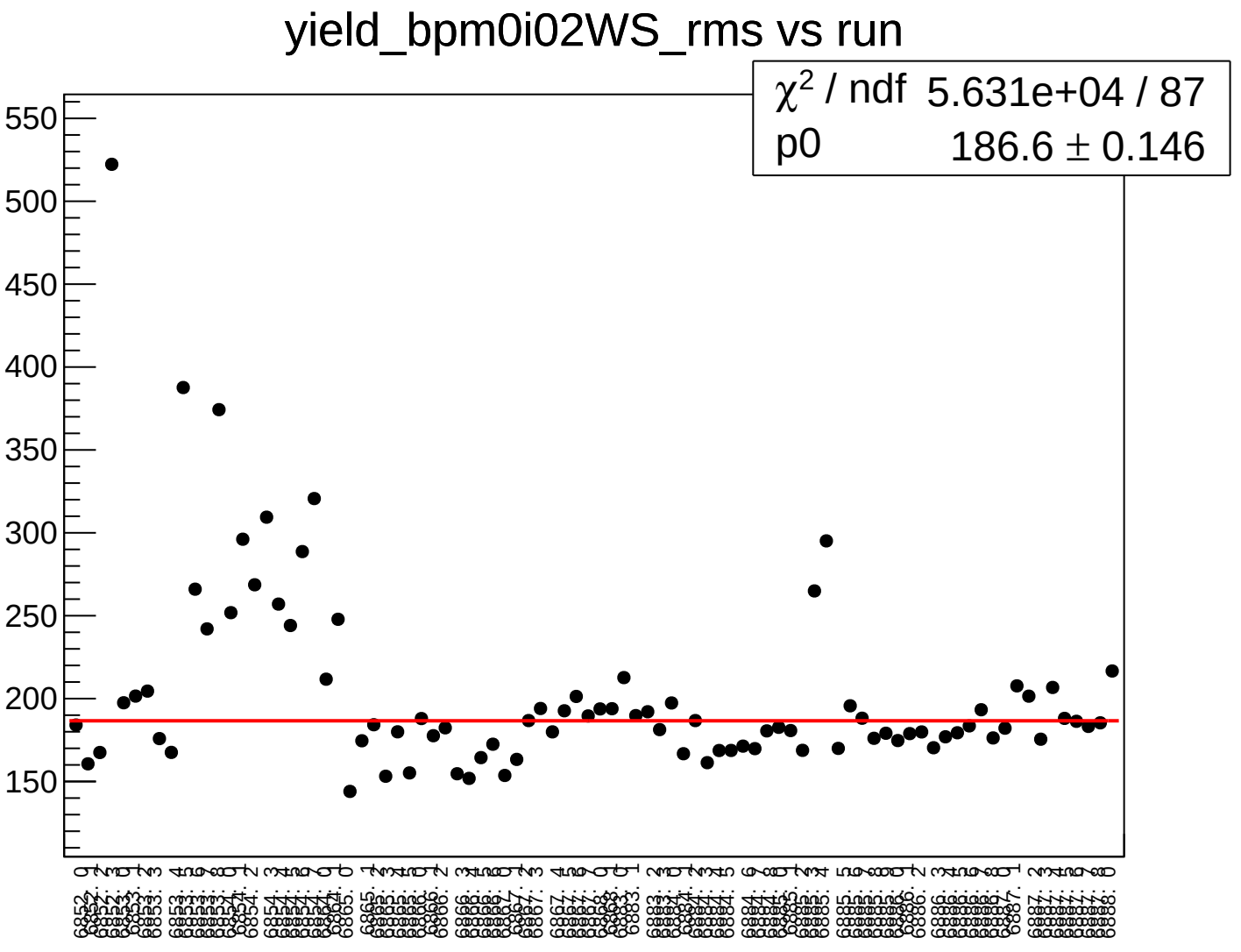

yield_bpm0r03WS_rms vs run
χ² / ndf 3.019e+04 / 87
p0 373.9 ± 0.2902
700
650
600
550
500
450
400
350
300
250

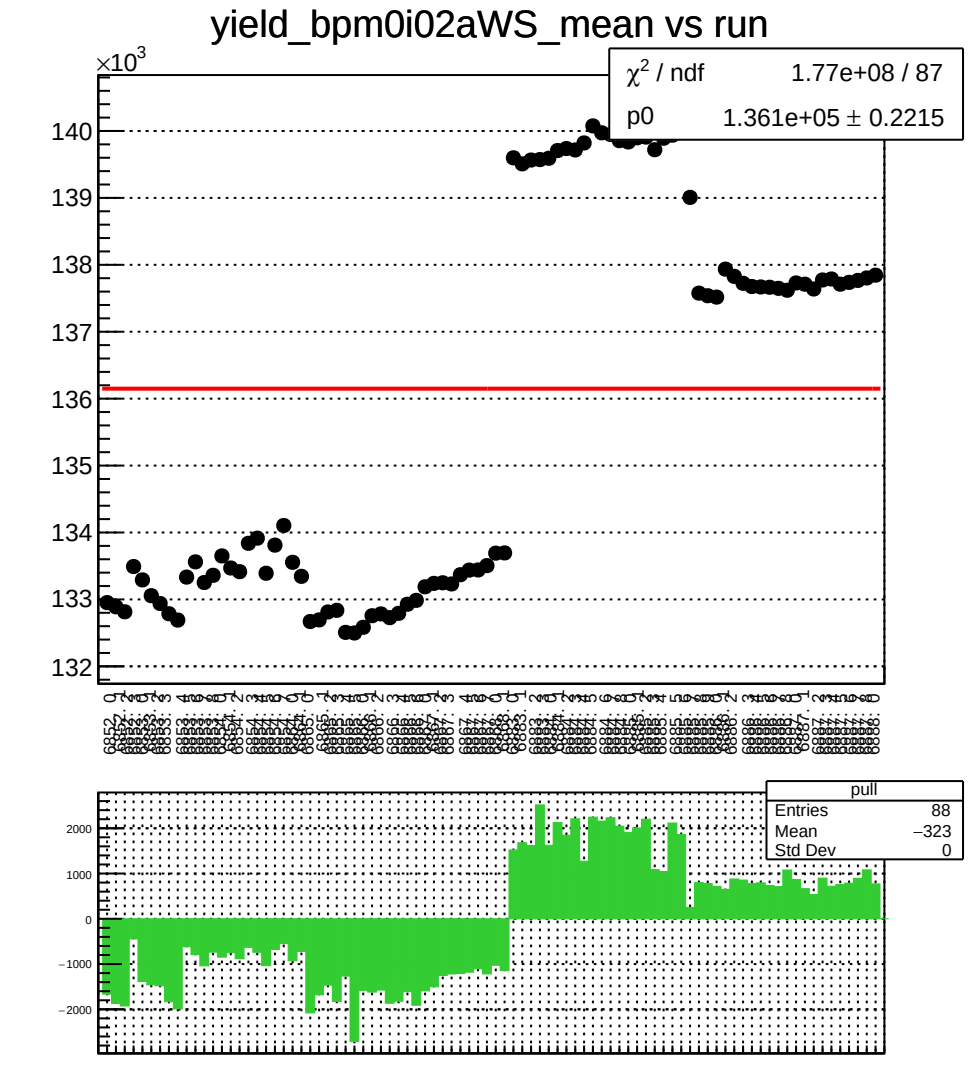

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 3.533e+06 / 87
p0 1.374e+05 ± 0.3372
139
138.5
138
137.5
137
pull
Entries 88
Mean 74.93
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 88
Mean −2.698
Std Dev 3.399
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

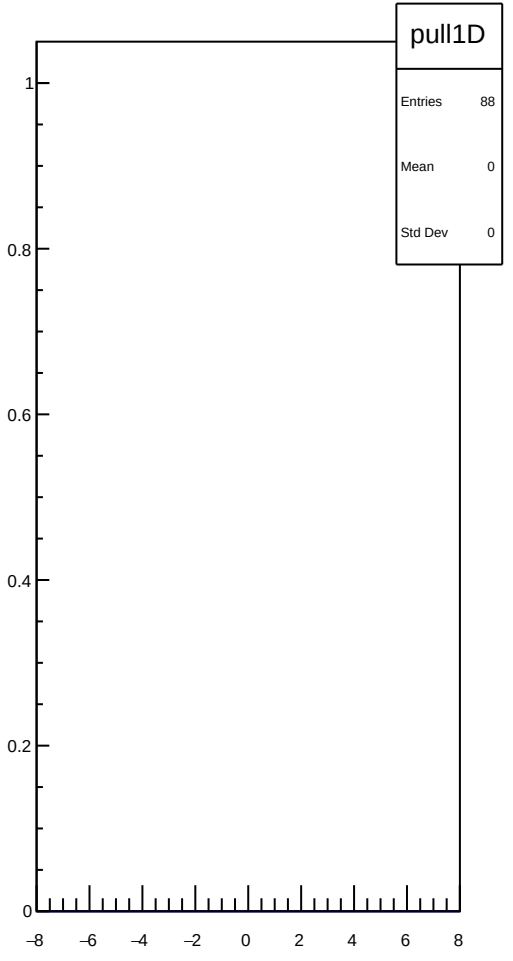

yield_bpm0r05WS_rms vs run
χ² / ndf 1.214e+05 / 87
p0 298.7 ± 0.2385
550
500
450
400
350
300
250
200
150

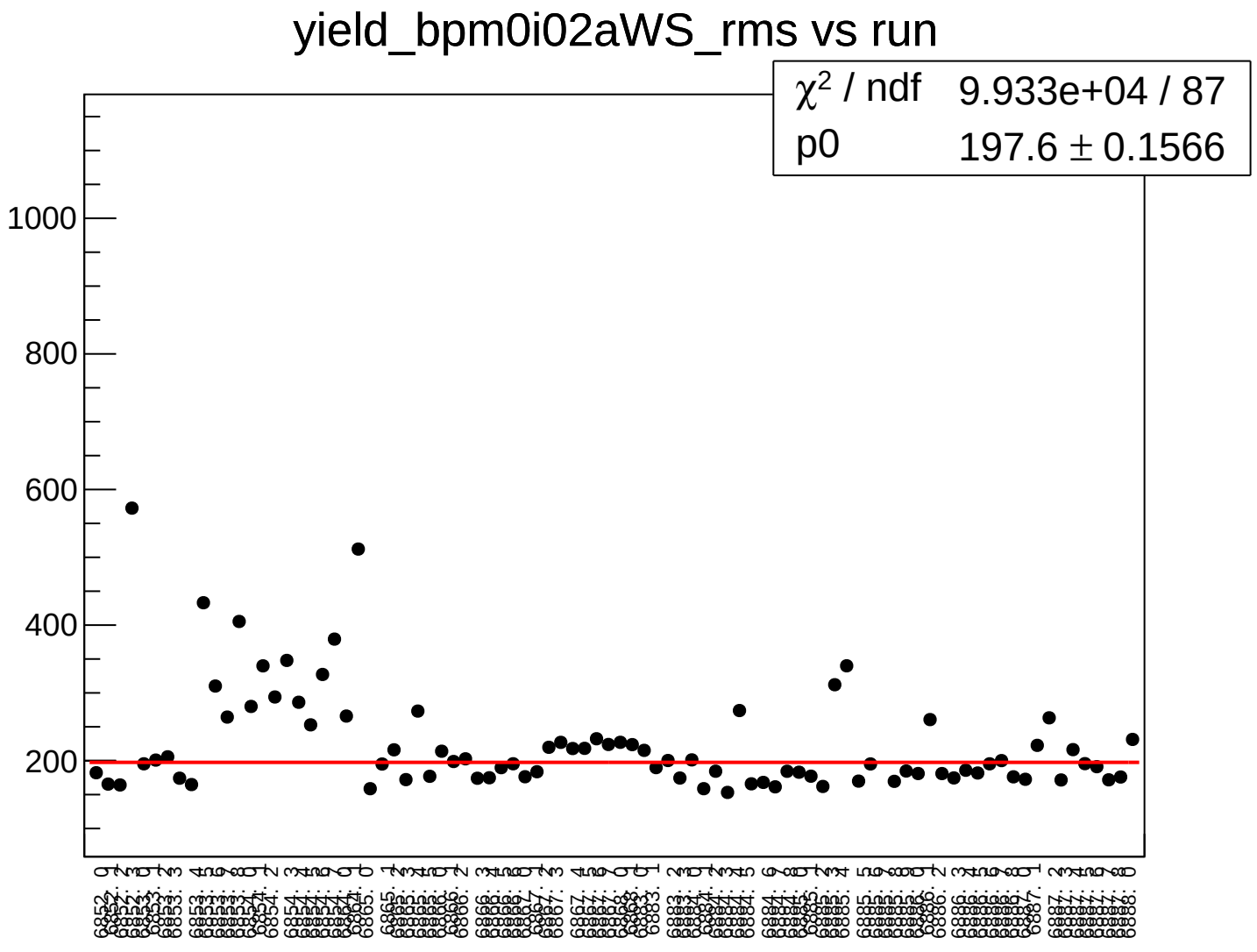

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 3.91e+07 / 87
p0 1.446e+05 ± 0.2064
147
146.5
146
145.5
145
144.5
144
143.5
143
142.5
pull
Entries 88
Mean 371.1
Std Dev 0
1000
500
0
−500
−1000
−1500

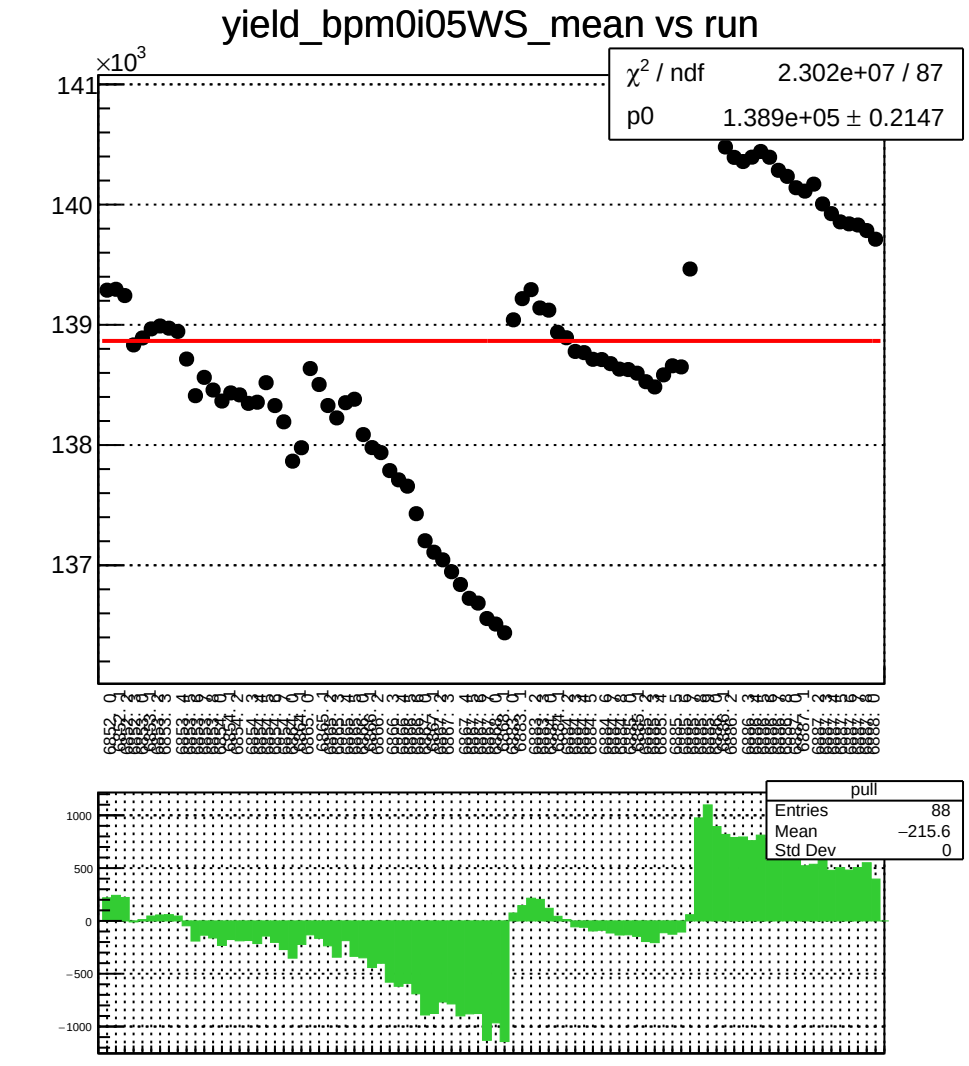

pull1D
Entries 88
Mean −6.946
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

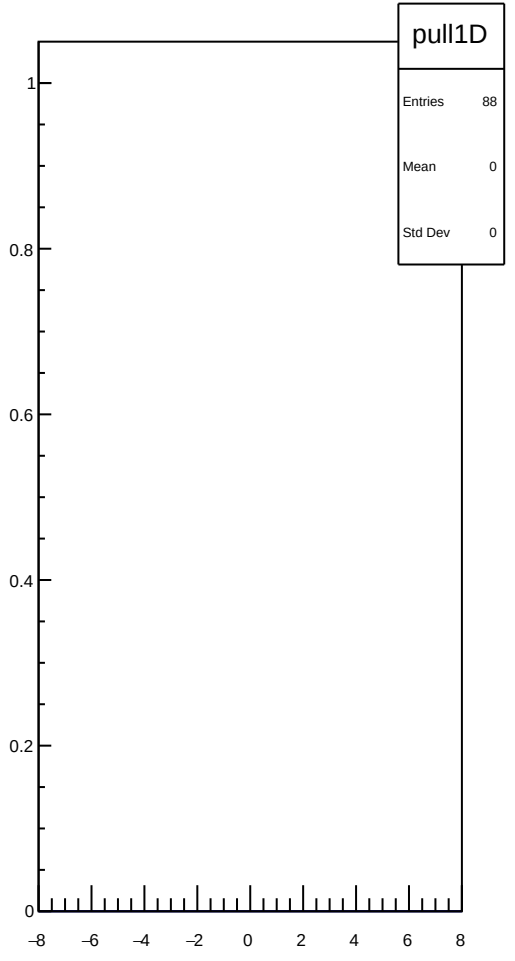

yield_bpm0i02WS_rms vs run
χ² / ndf 5.631e+04 / 87
p0 186.6 ± 0.146
550
500
450
400
350
300
250
200
150

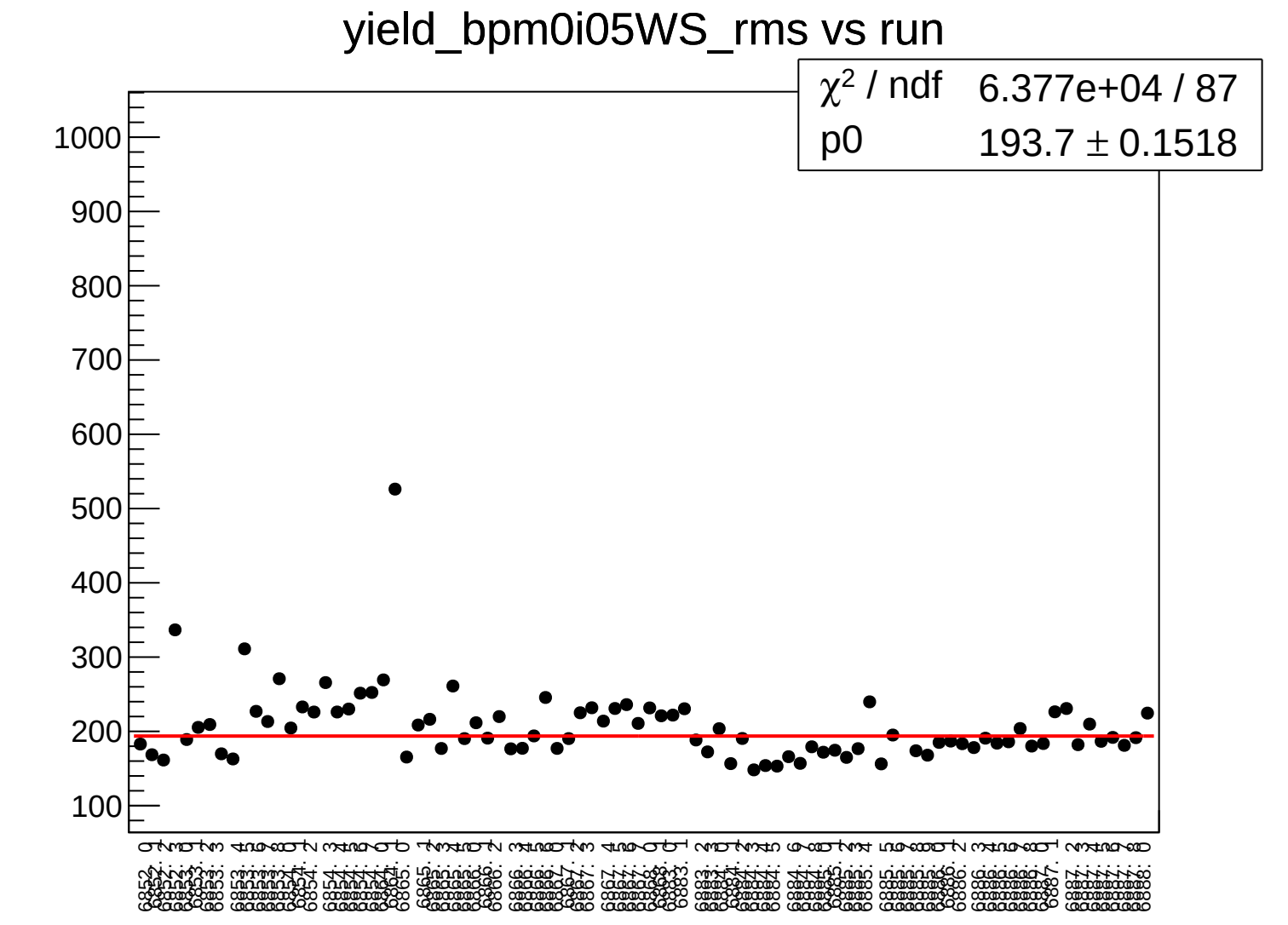

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 1.77e+08 / 87
p0 1.361e+05 ± 0.2215
140
139
138
137
136
135
134
133
132
pull
Entries 88
Mean −323
Std Dev 0
2000
1000
0
−1000
−2000

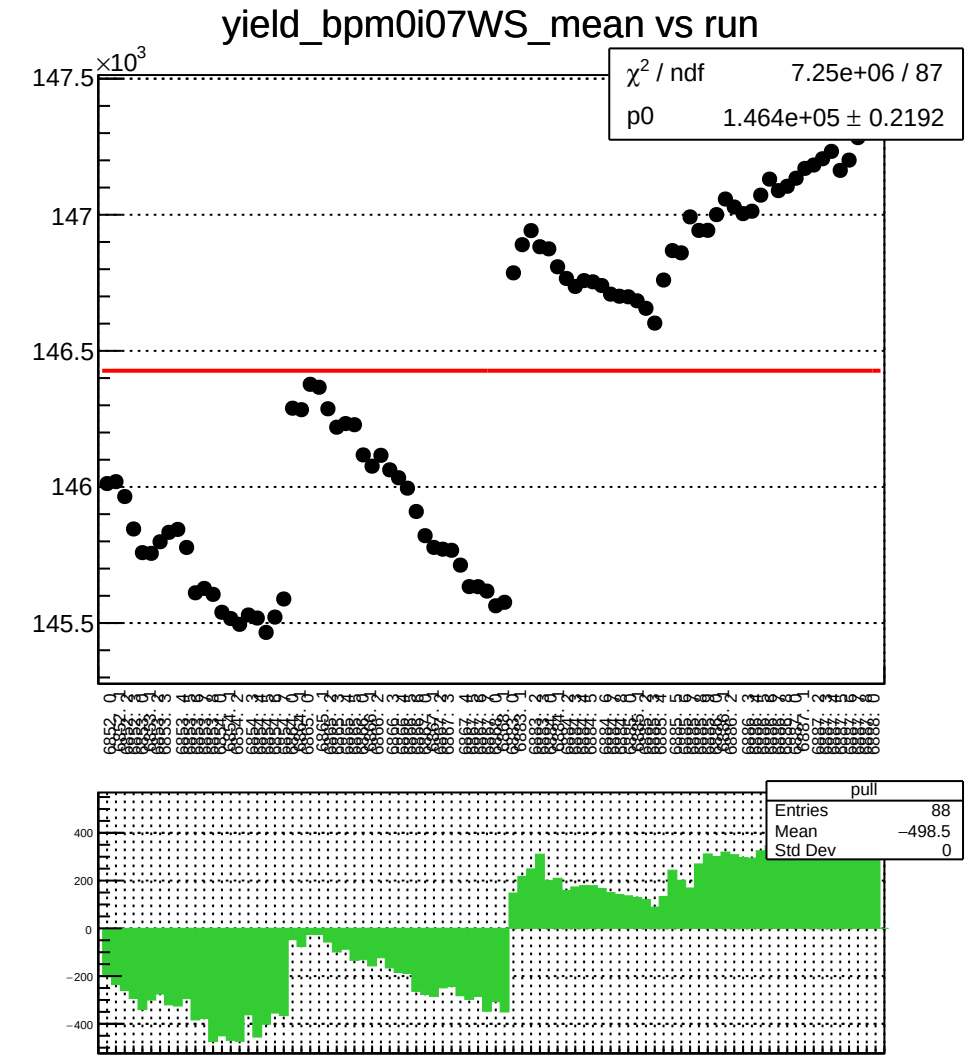

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

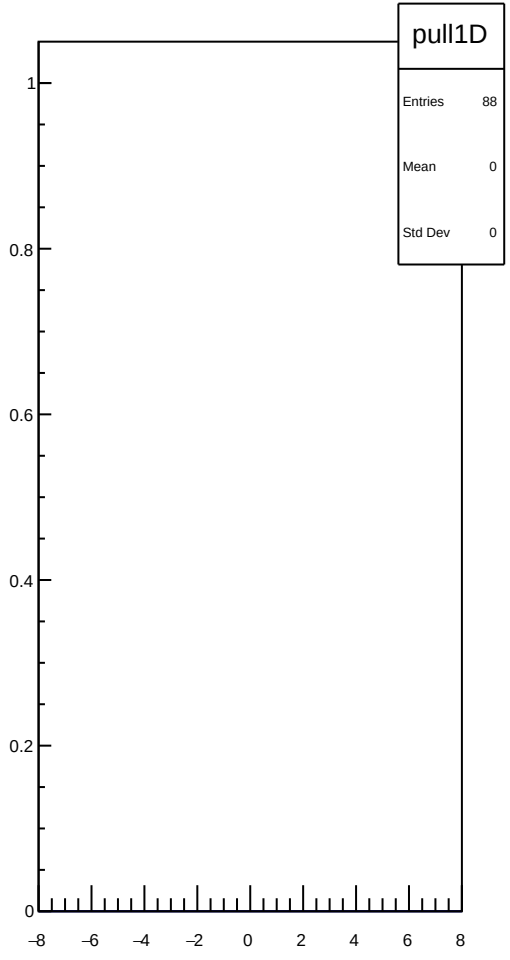

yield_bpm0i02aWS_rms vs run
χ² / ndf 9.933e+04 / 87
p0 197.6 ± 0.1566
1000
800
600
400
200

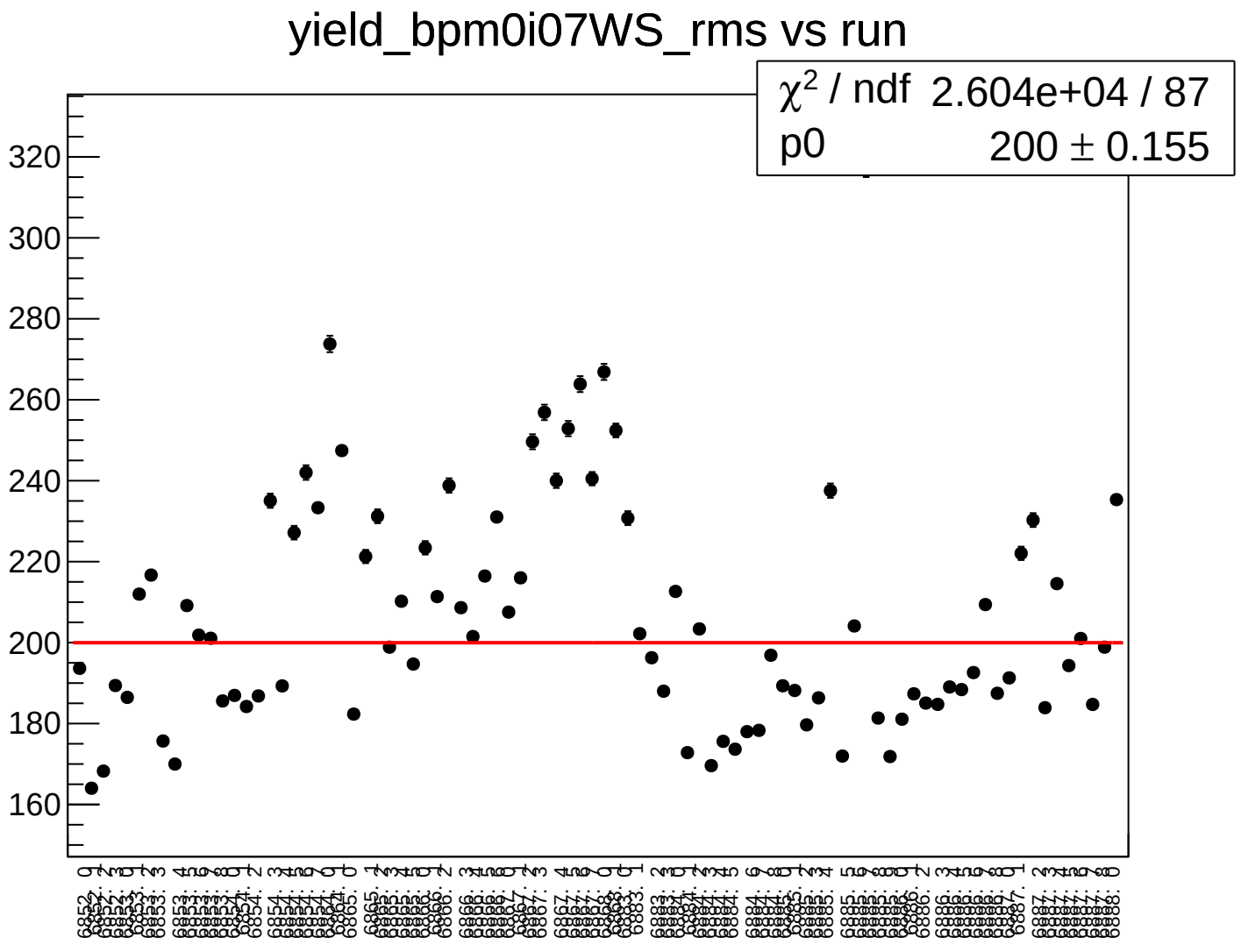

yield_bpm0i05WS_mean vs run
×10^3
141
140
139
138
137
χ² / ndf 2.302e+07 / 87
p0 1.389e+05 ± 0.2147
pull
Entries 88
Mean −215.6
Std Dev 0
1000
500
0
−500
−1000

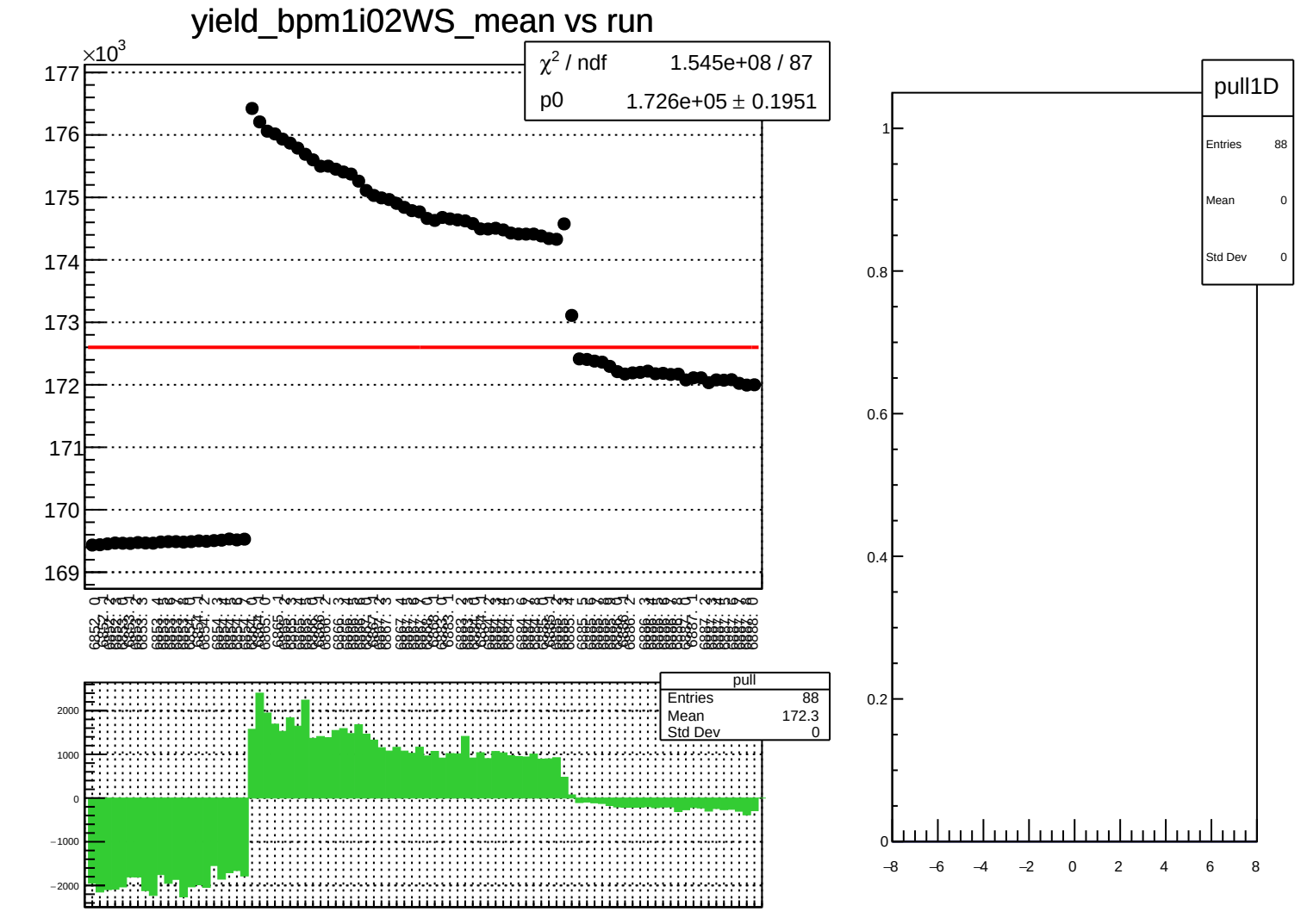

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

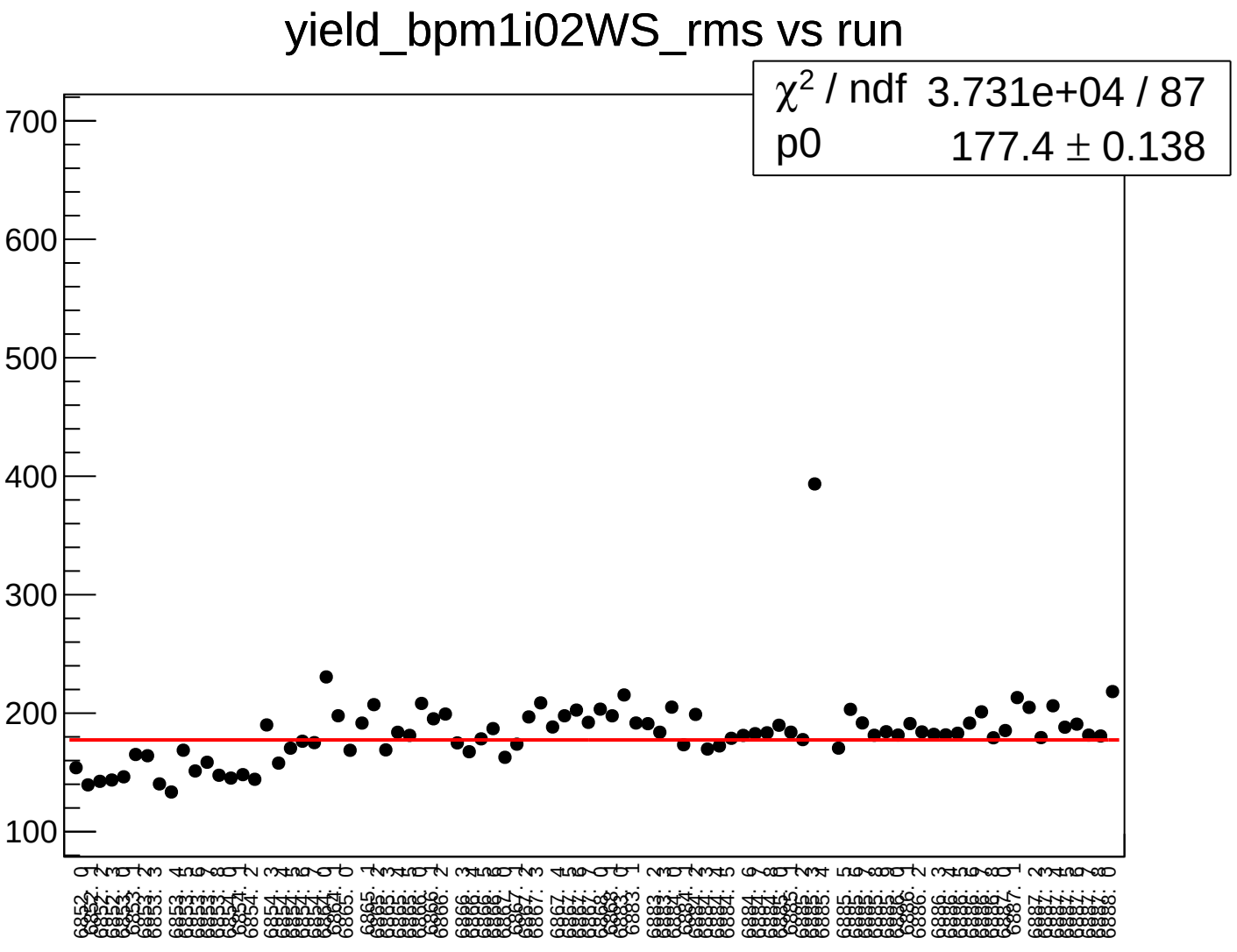

yield_bpm0i05WS_rms vs run
χ² / ndf 6.377e+04 / 87
p0 193.7 ± 0.1518
1000
900
800
700
600
500
400
300
200
100

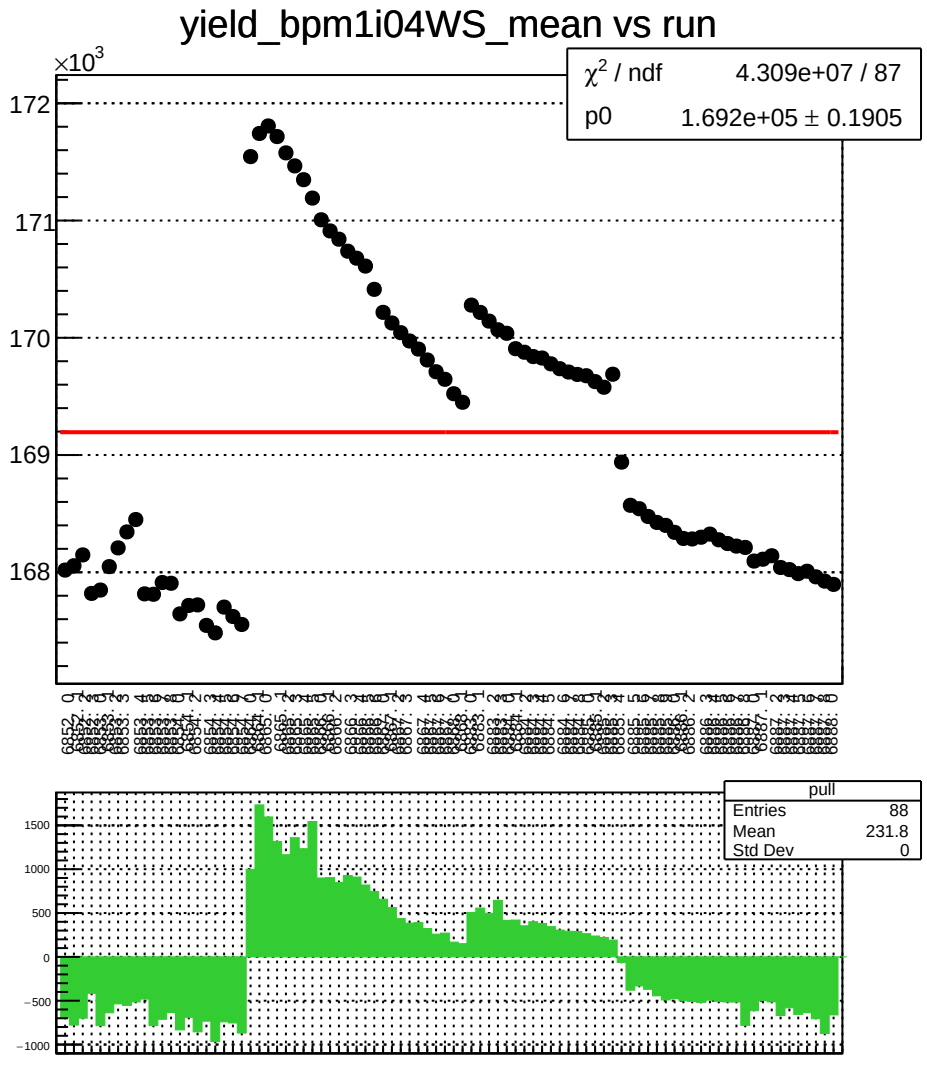

yield_bpm0i07WS_mean vs run
×10^3
147.5
147
146.5
146
145.5
χ² / ndf 7.25e+06 / 87
p0 1.464e+05 ± 0.2192
pull
Entries 88
Mean −498.5
Std Dev 0
400
200
0
−200
−400

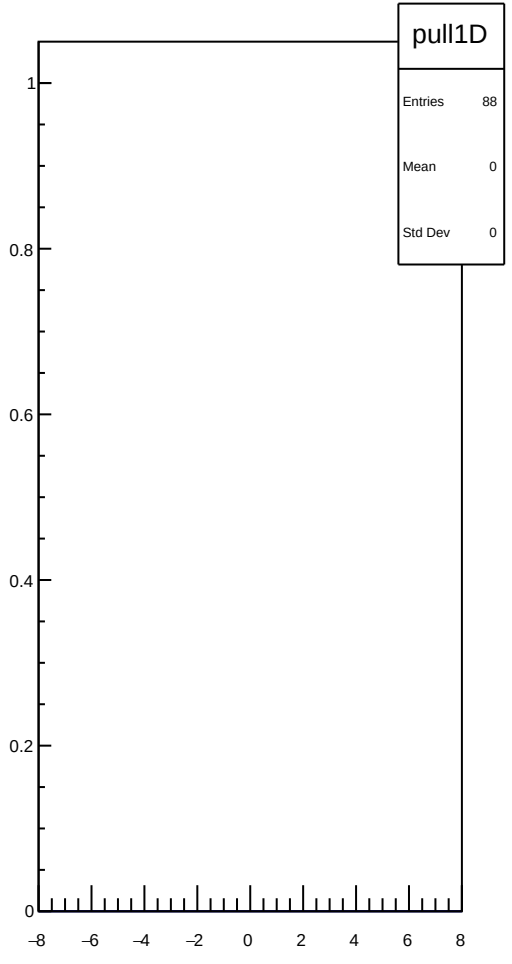

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

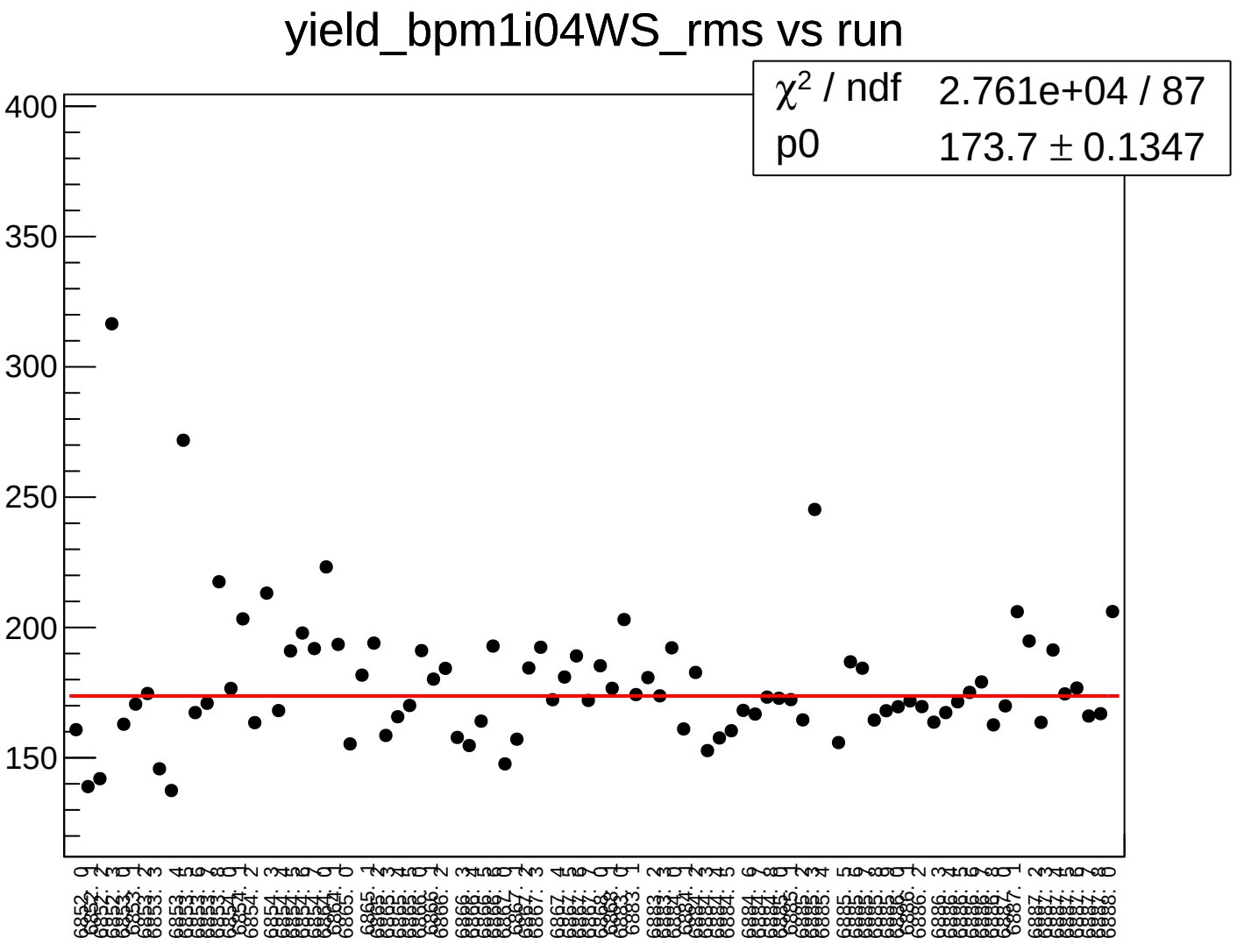

yield_bpm0i07WS_rms vs run
χ² / ndf 2.604e+04 / 87
p0 200 ± 0.155
320
300
280
260
240
220
200
180
160

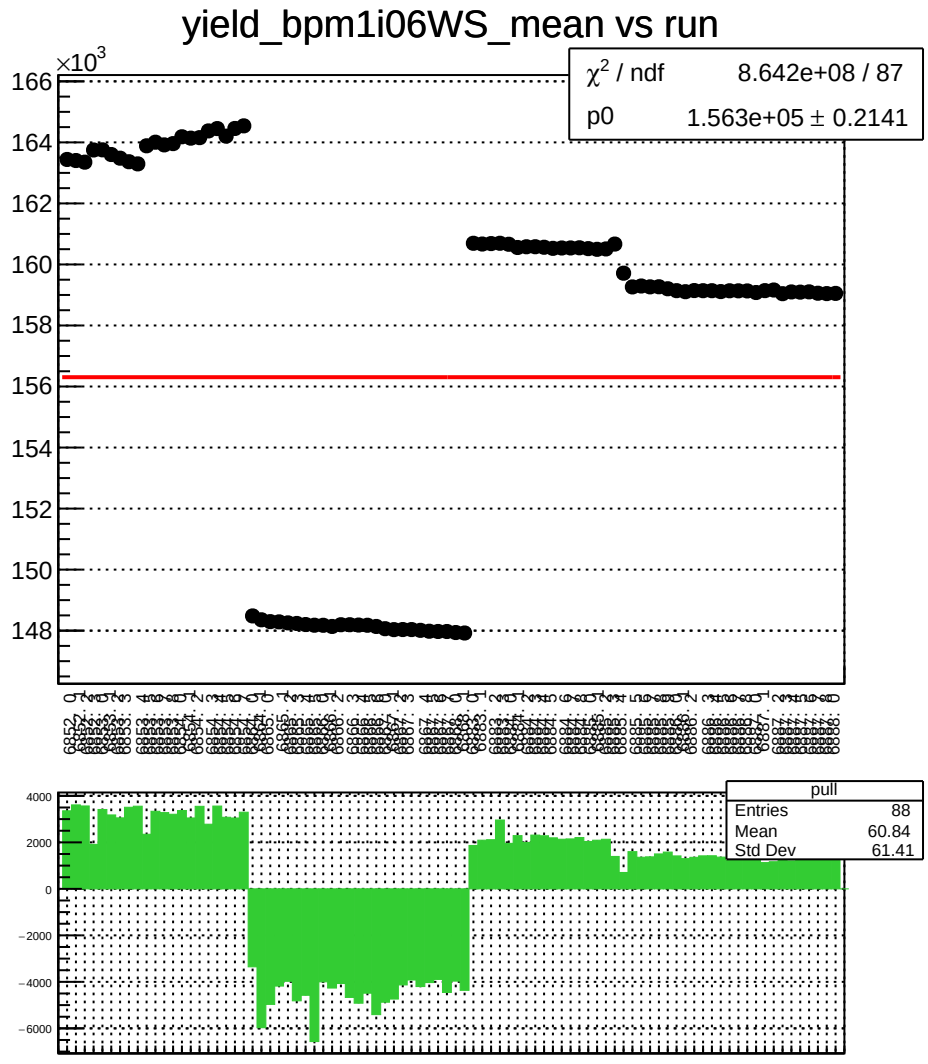

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 1.545e+08 / 87
p0 1.726e+05 ± 0.1951
177
176
175
174
173
172
171
170
169
pull
Entries 88
Mean 172.3
Std Dev 0
2000
1000
0
−1000
−2000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

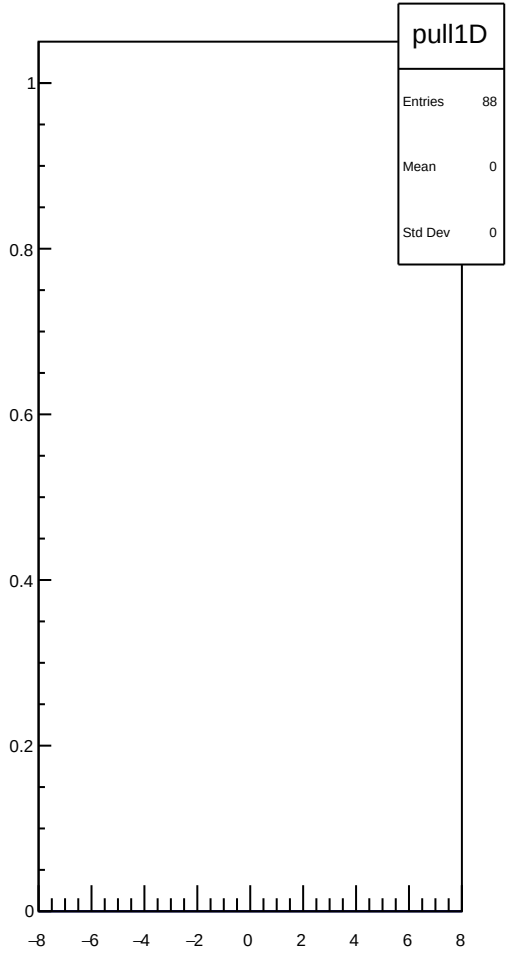

yield_bpm1i02WS_rms vs run
χ² / ndf 3.731e+04 / 87
p0 177.4 ± 0.138
700
600
500
400
300
200
100

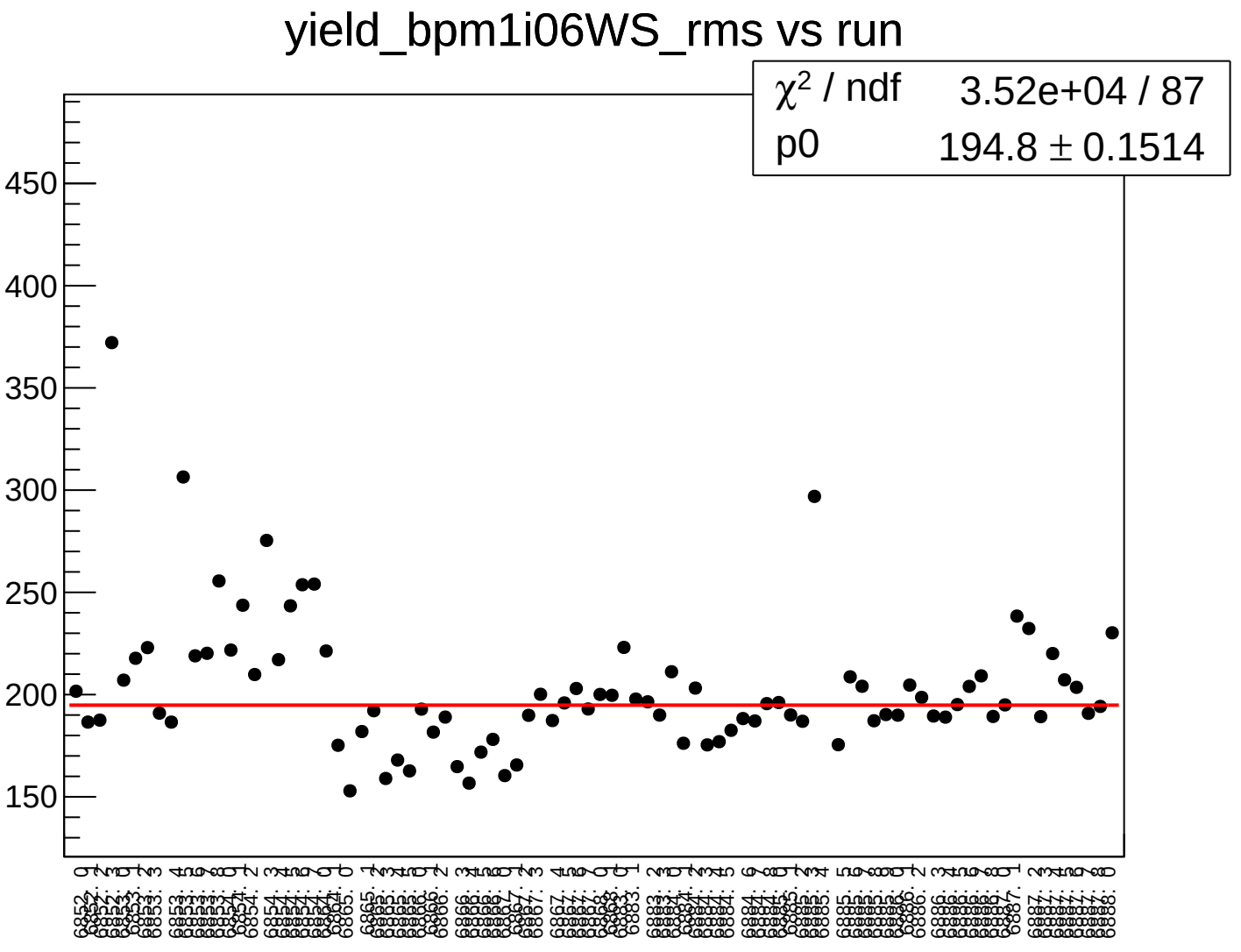

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 4.309e+07 / 87
p0 1.692e+05 ± 0.1905
172
171
170
169
168
pull
Entries 88
Mean 231.8
Std Dev 0
1500
1000
500
0
−500
−1000

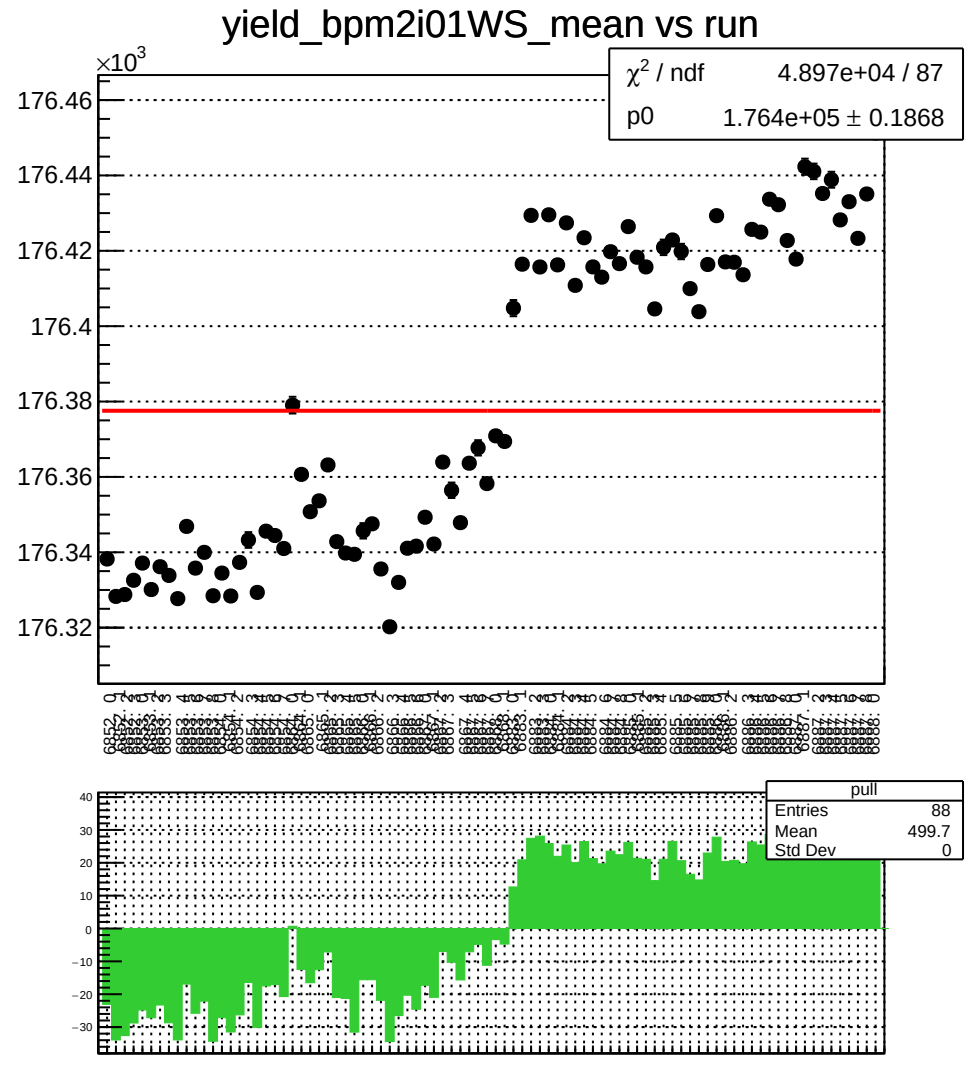

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

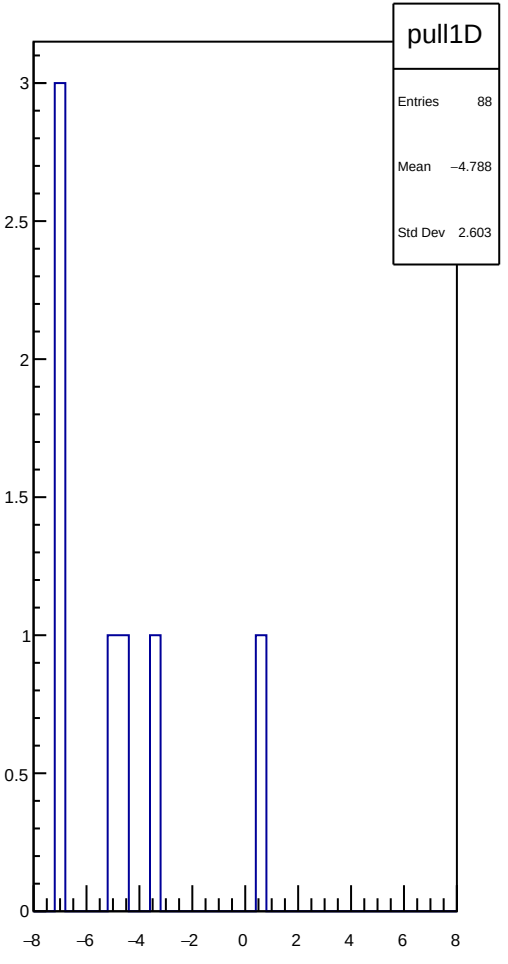

yield_bpm1i04WS_rms vs run
χ² / ndf 2.761e+04 / 87
p0 173.7 ± 0.1347
400
350
300
250
200
150

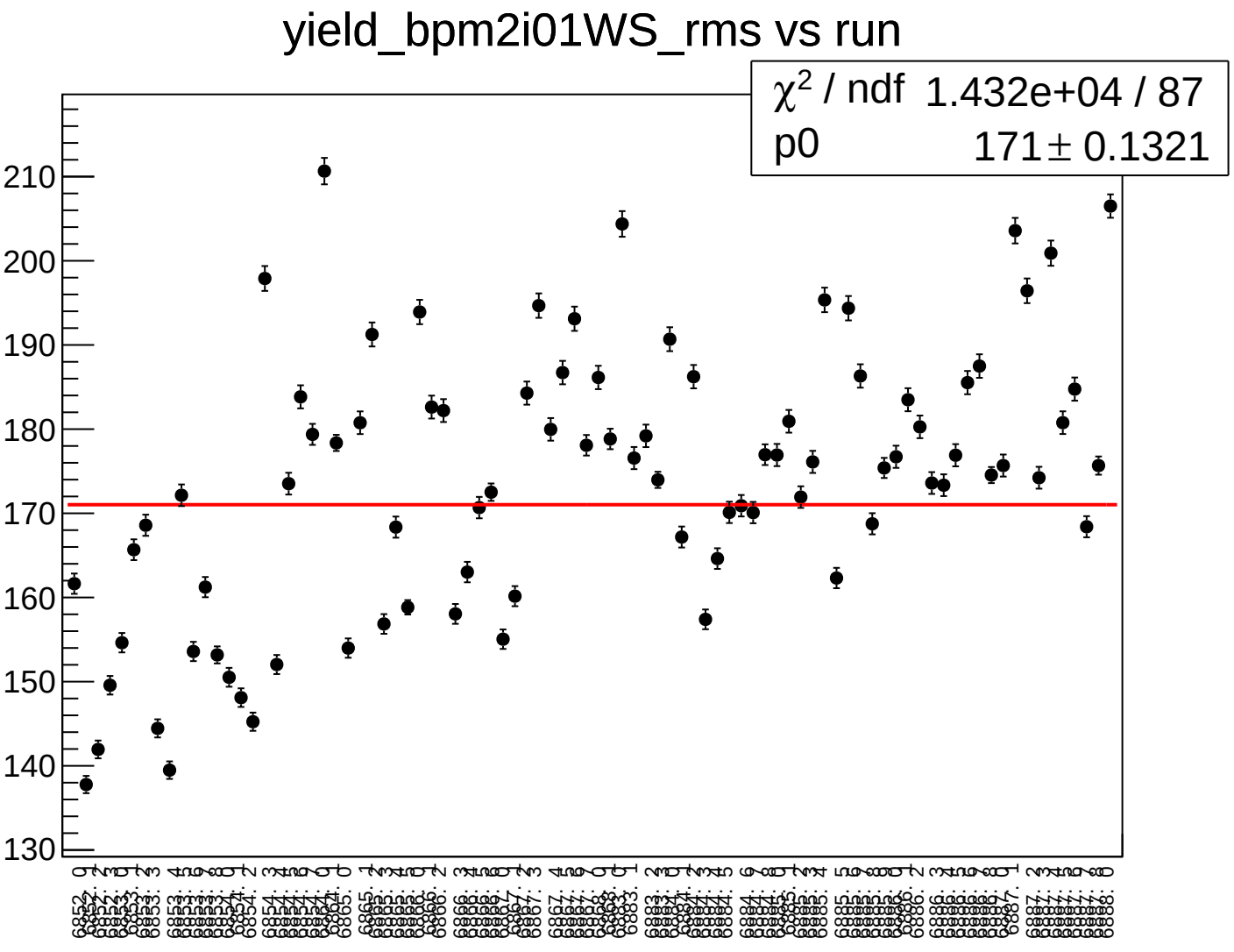

yield_bpm1i06WS_mean vs run
×10^3
166
164
162
160
158
156
154
152
150
148
χ² / ndf 8.642e+08 / 87
p0 1.563e+05 ± 0.2141
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 60.84
Std Dev 61.41

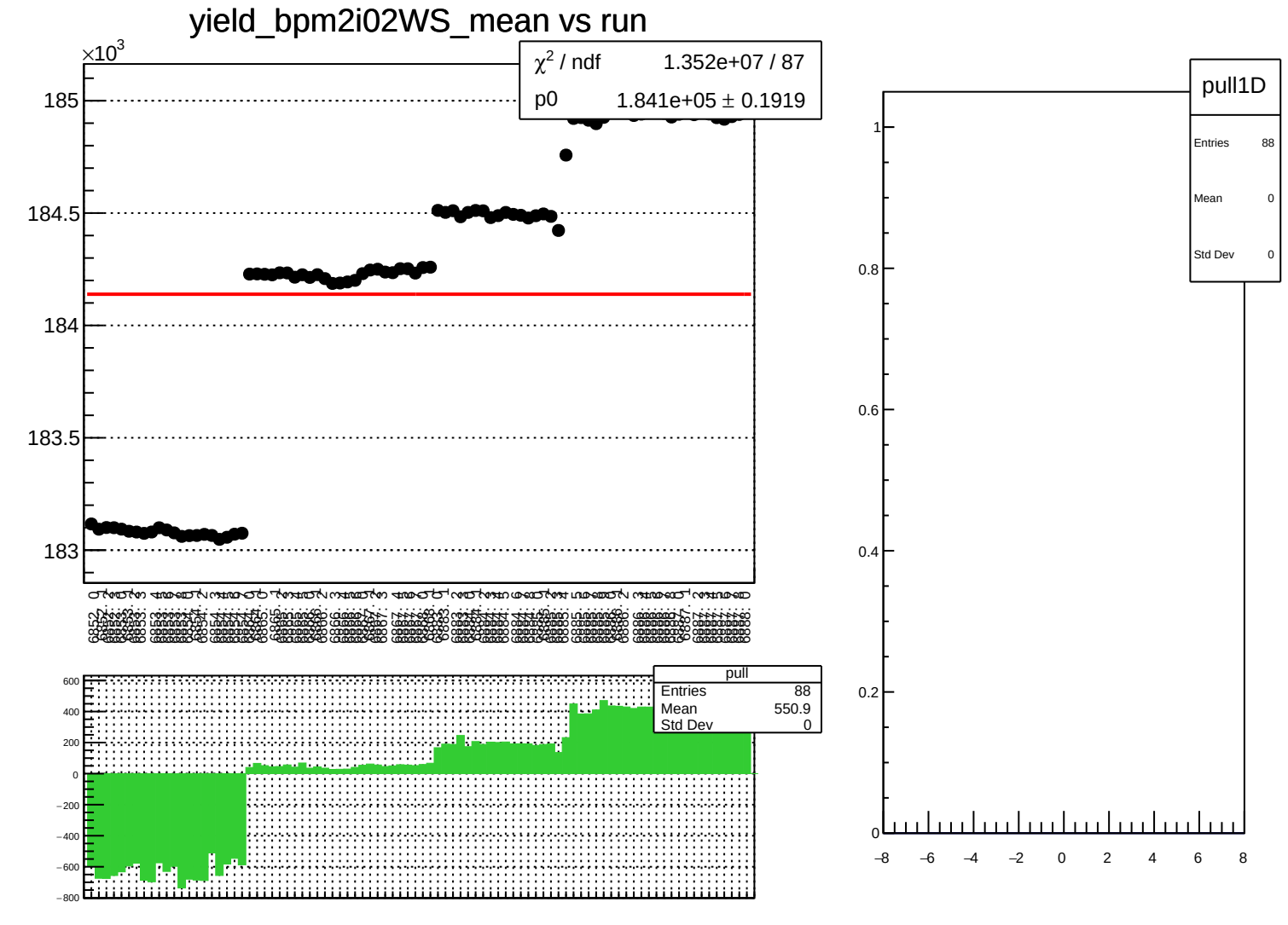

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

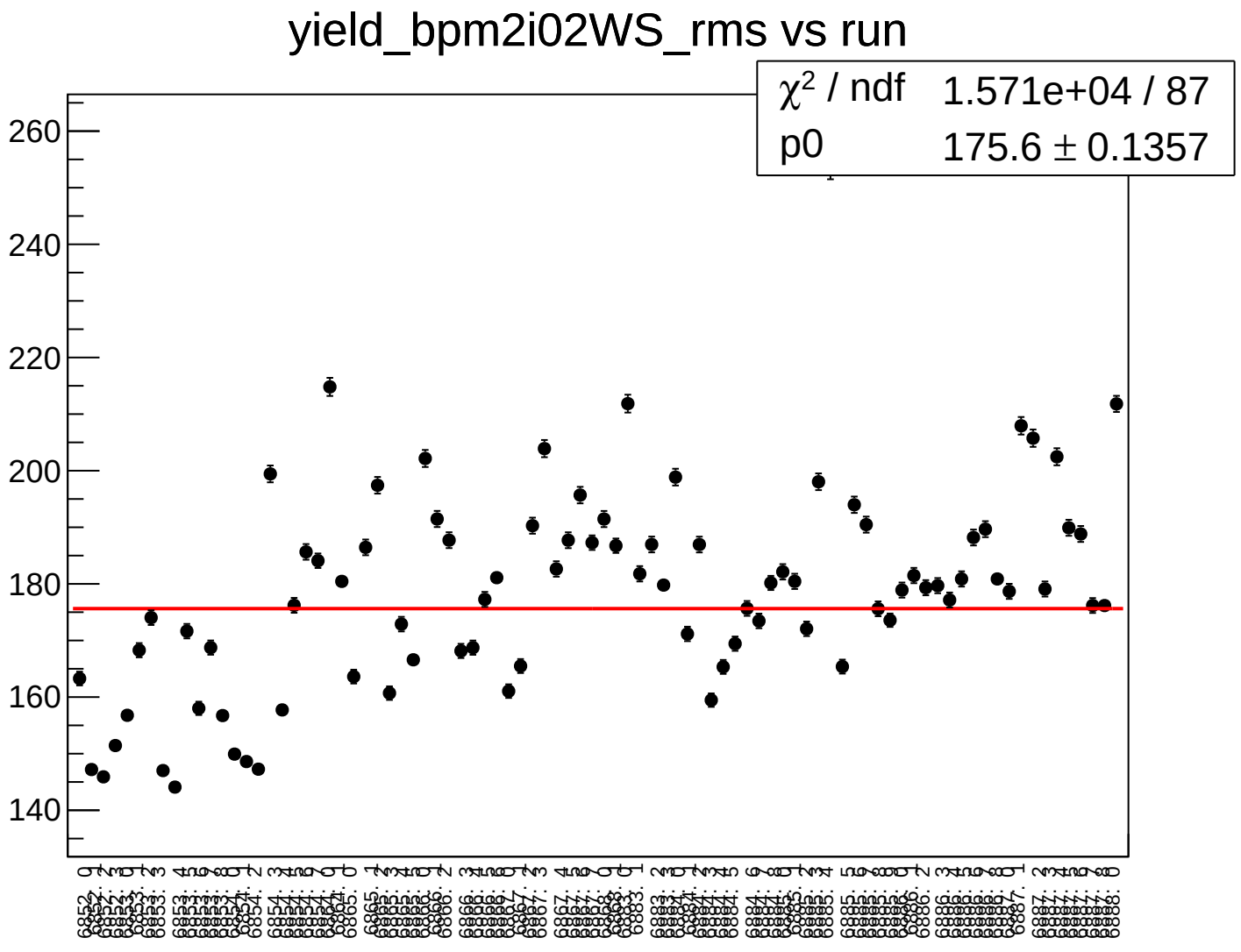

yield_bpm1i06WS_rms vs run
χ² / ndf 3.52e+04 / 87
p0 194.8 ± 0.1514
450
400
350
300
250
200
150

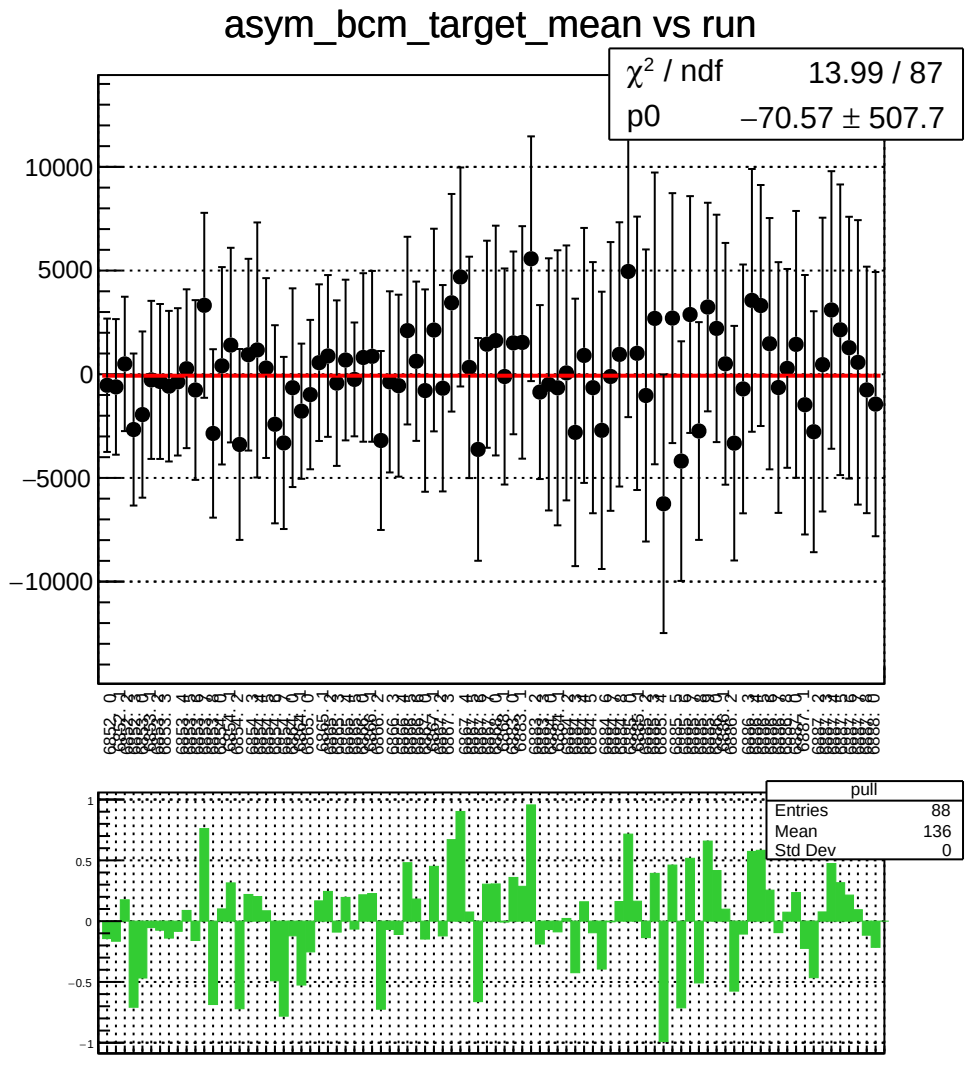

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4.897e+04 / 87
p0 1.764e+05 ± 0.1868
176.46
176.44
176.42
176.4
176.38
176.36
176.34
176.32
pull
Entries 88
Mean 499.7
Std Dev 0
40
30
20
10
0
−10
−20
−30

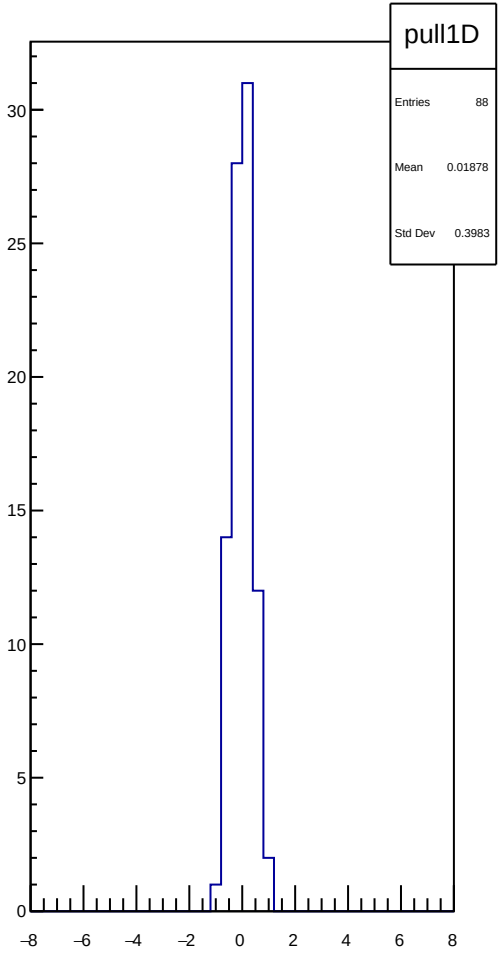

pull1D
Entries 88
Mean −4.788
Std Dev 2.603
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

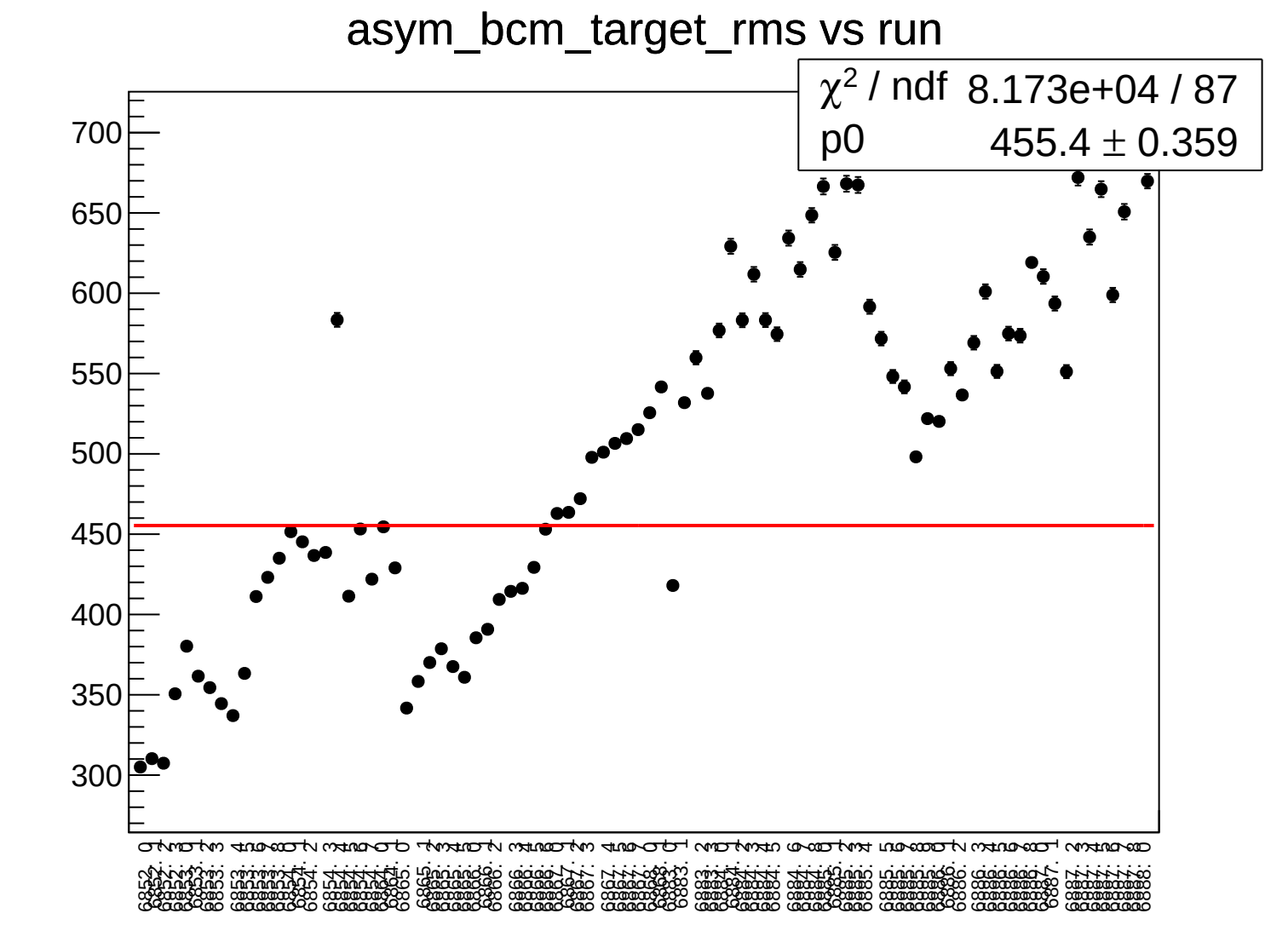

yield_bpm2i01WS_rms vs run
χ² / ndf 1.432e+04 / 87
p0 171 ± 0.1321
210
200
190
180
170
160
150
140
130

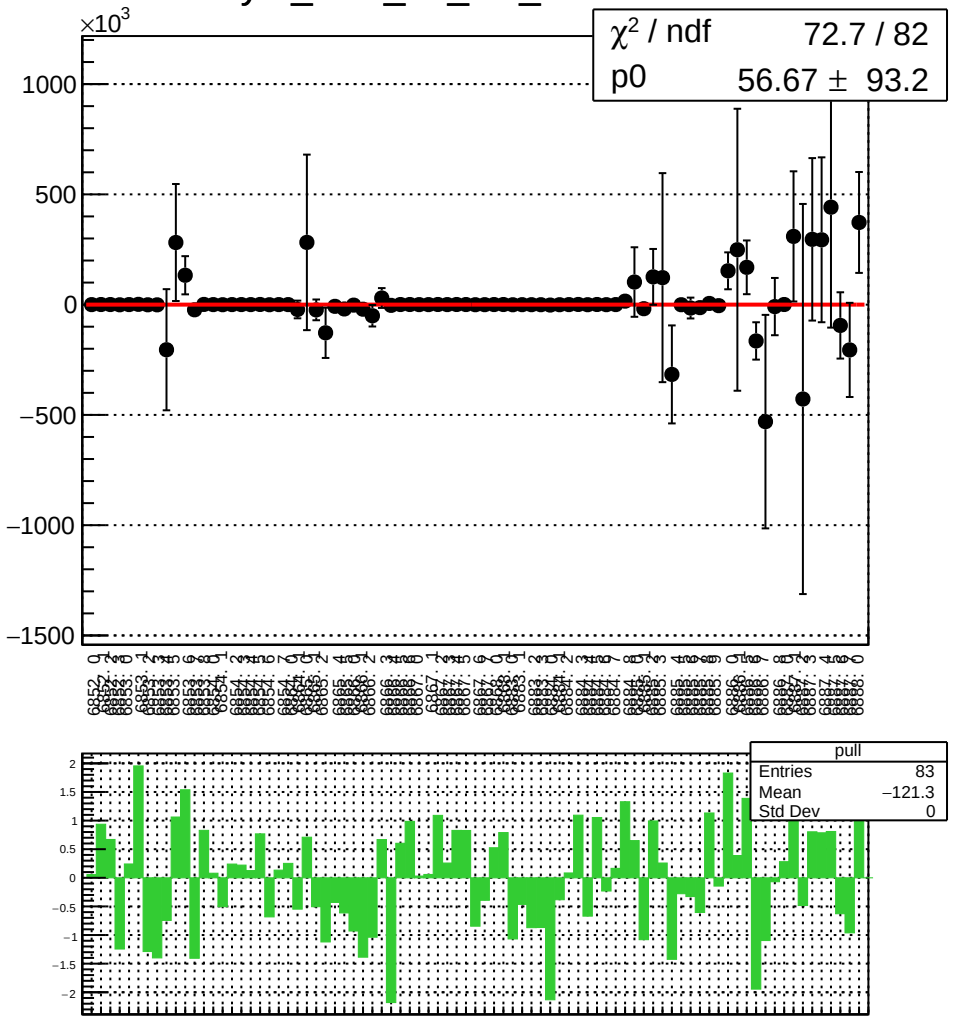

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 1.352e+07 / 87
p0 1.841e+05 ± 0.1919
185
184.5
184
183.5
183
pull
Entries 88
Mean 550.9
Std Dev 0
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

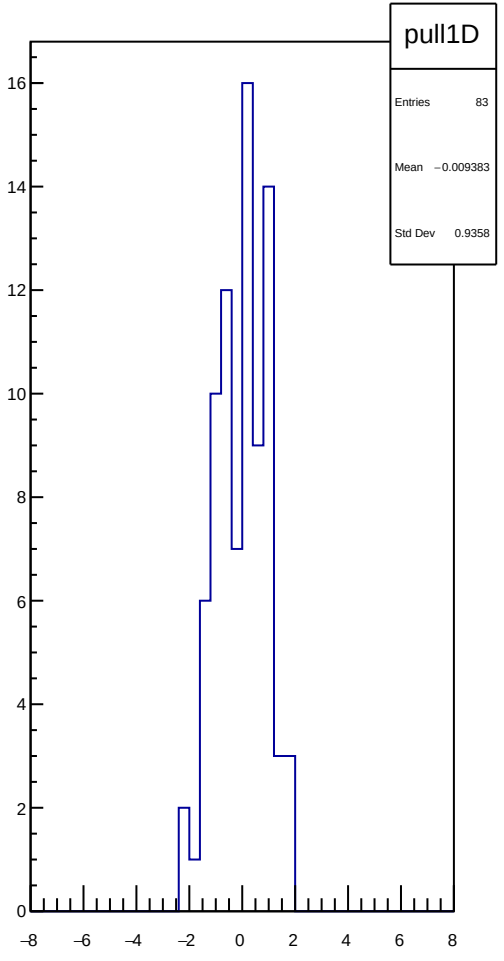

yield_bpm2i02WS_rms vs run
χ² / ndf 1.571e+04 / 87
p0 175.6 ± 0.1357
260
240
220
200
180
160
140

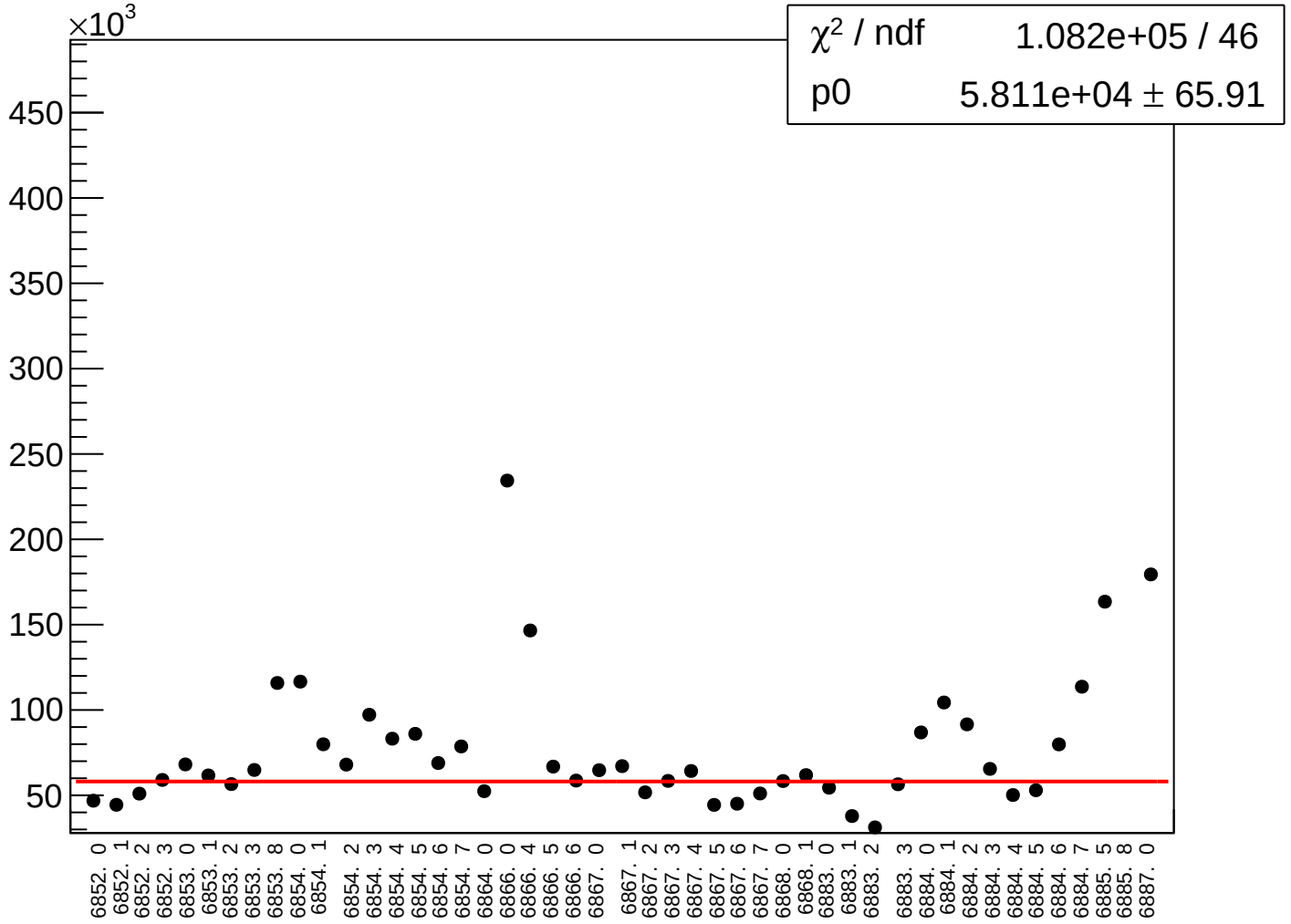

asym_bcm_target_mean vs run
χ² / ndf 13.99 / 87
p0 −70.57 ± 507.7
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 136
Std Dev 0
1
0.5
0
−0.5
−1

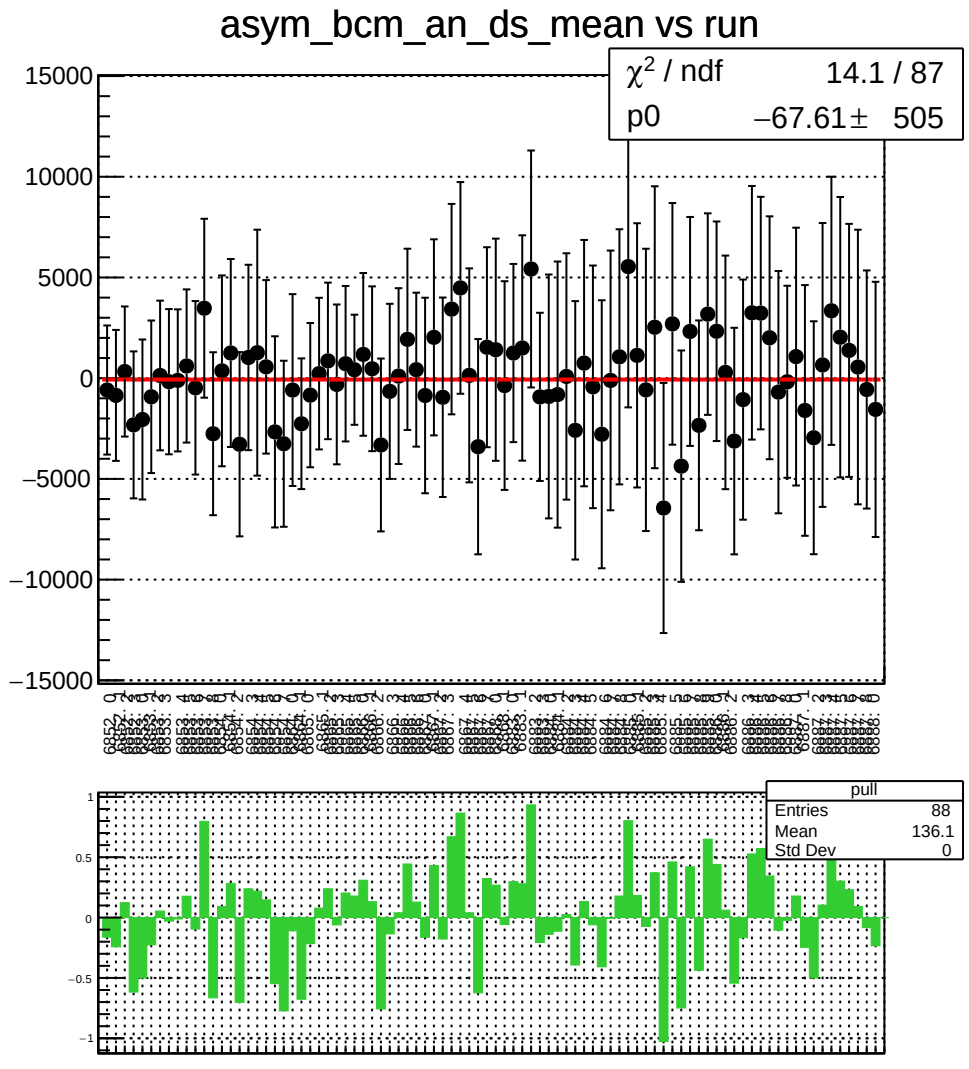

pull1D
Entries 88
Mean 0.01878
Std Dev 0.3983
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

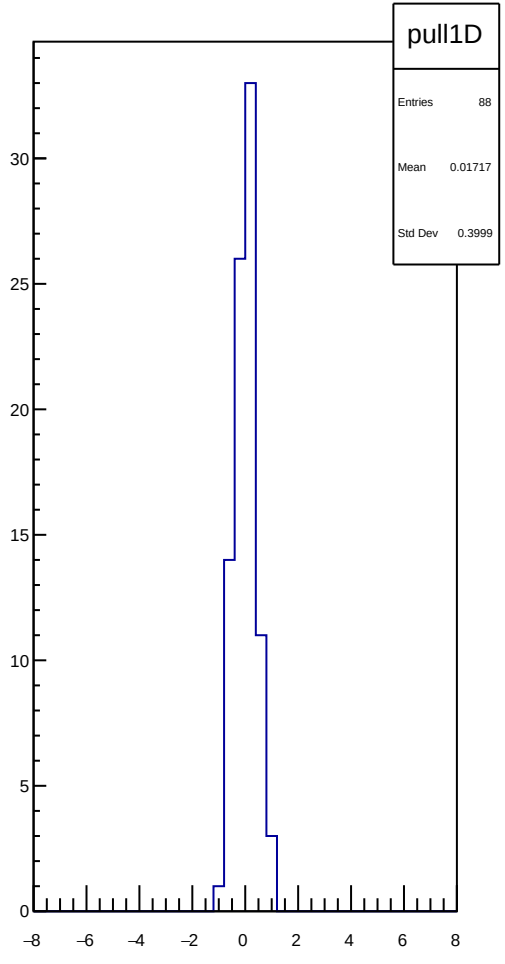

asym_bcm_target_rms vs run
χ² / ndf 8.173e+04 / 87
p0 455.4 ± 0.359
700
650
600
550
500
450
400
350
300

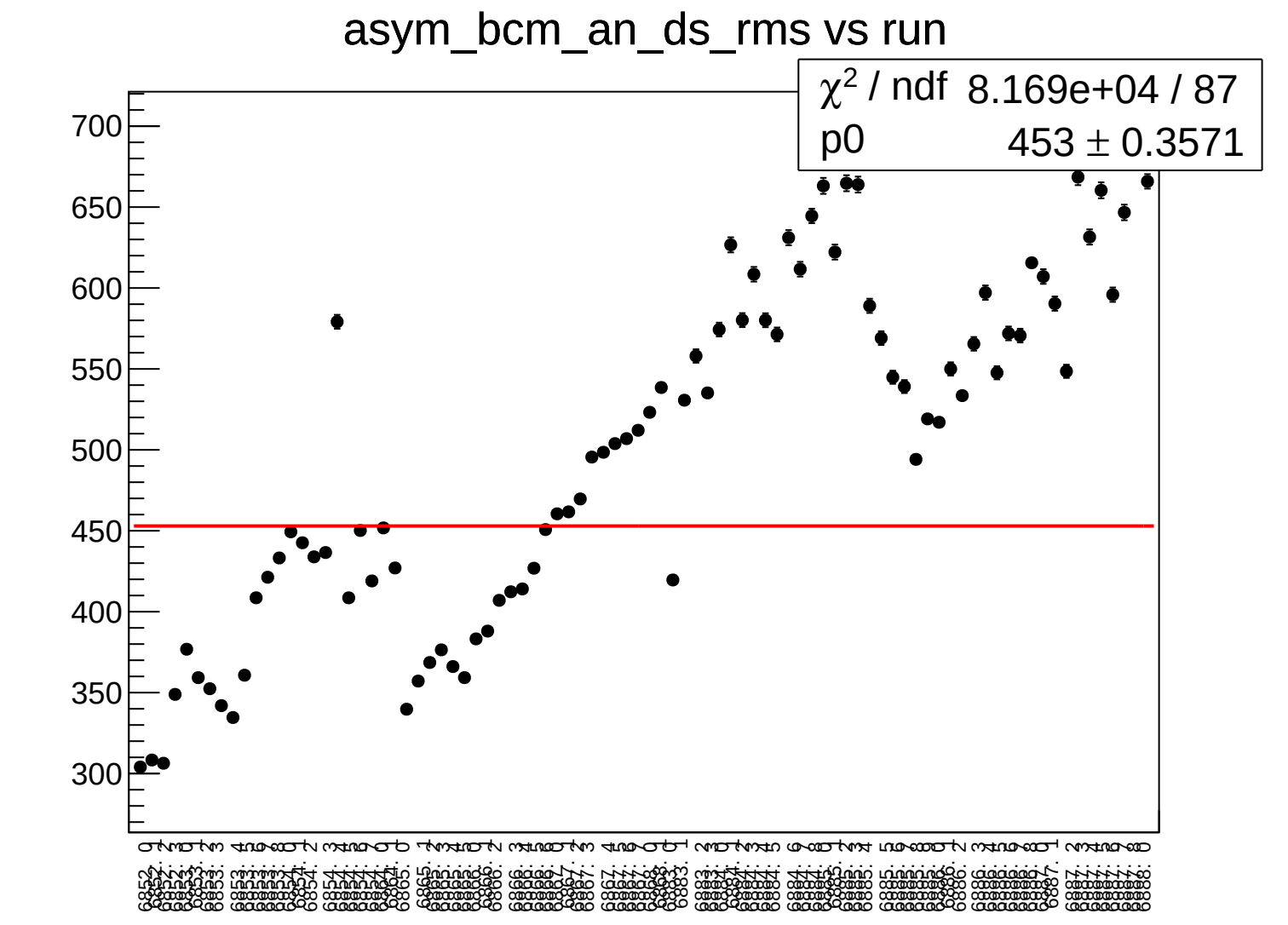

asym_bcm_an_diff_mean vs run
χ² / ndf 72.7 / 82
p0 56.67 ± 93.2
×10³
pull
Entries 83
Mean −121.3
Std Dev 0

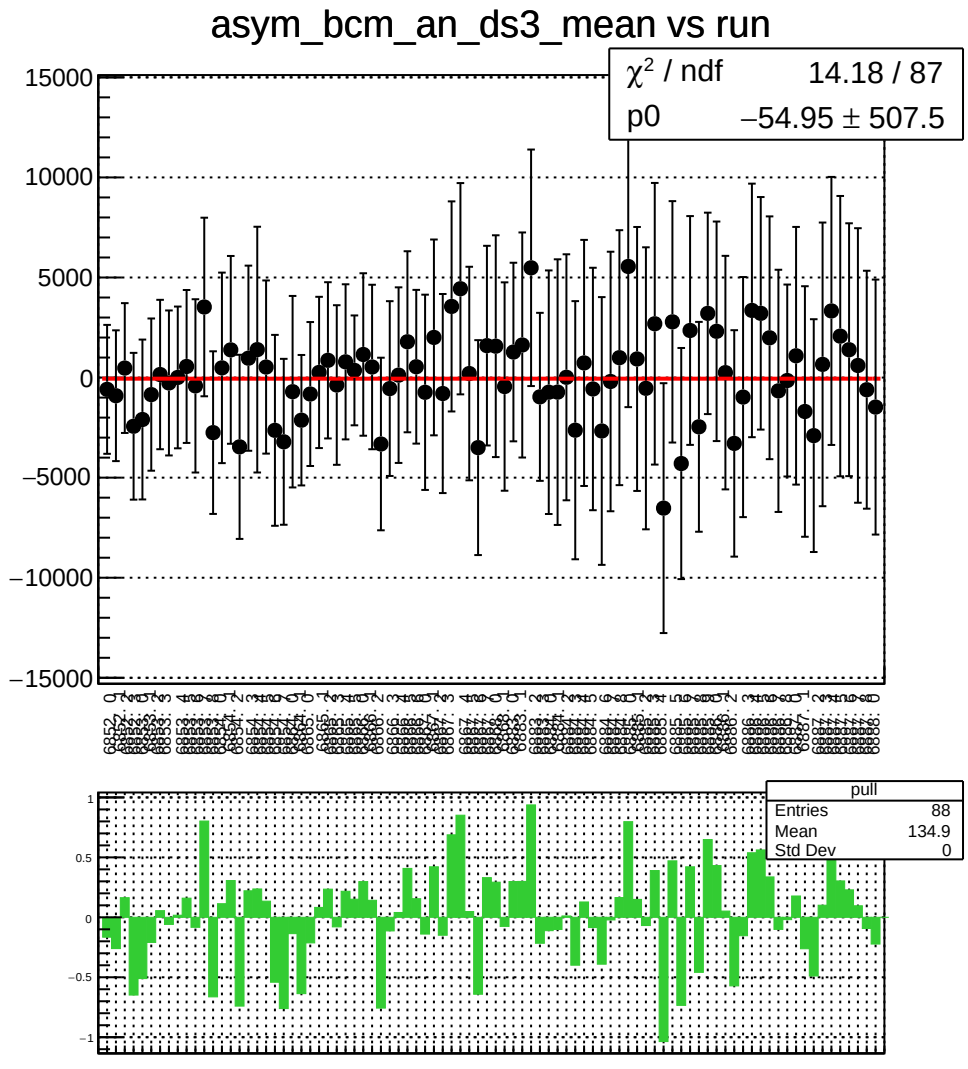

pull1D
Entries 83
Mean −0.009383
Std Dev 0.9358

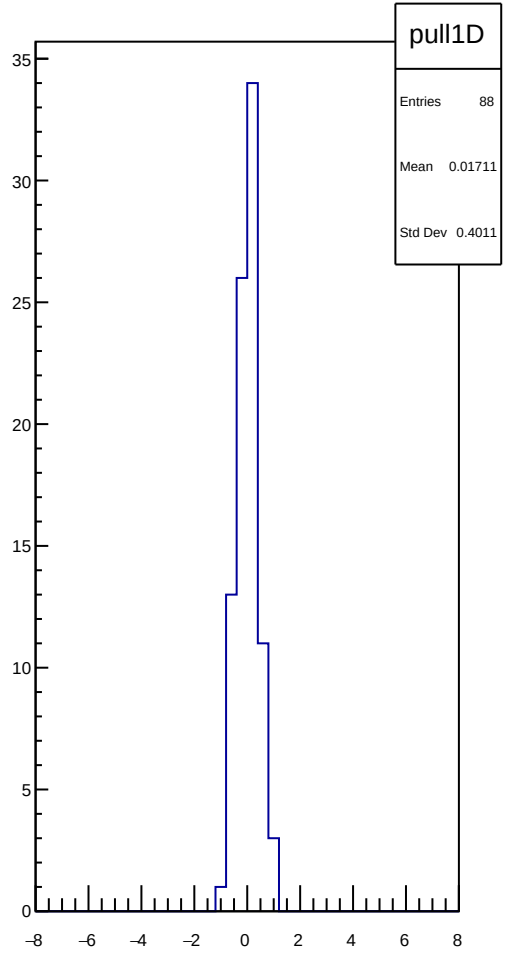

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 1.082e+05 / 46
p0 5.811e+04 ± 65.91
450
400
350
300
250
200
150
100
50
6852. 0
6852. 1
6852. 2
6852. 3
6853. 0
6853. 1
6853. 2
6853. 3
6853. 8
6854. 0
6854. 1
6854. 2
6854. 3
6854. 4
6854. 5
6854. 6
6854. 7
6864. 0
6866. 0
6866. 4
6866. 5
6866. 6
6867. 0
6867. 1
6867. 2
6867. 3
6867. 4
6867. 5
6867. 6
6867. 7
6868. 0
6868. 1
6883. 0
6883. 1
6883. 2
6883. 3
6884. 0
6884. 1
6884. 2
6884. 3
6884. 4
6884. 5
6884. 6
6884. 7
6885. 5
6885. 8
6887. 0

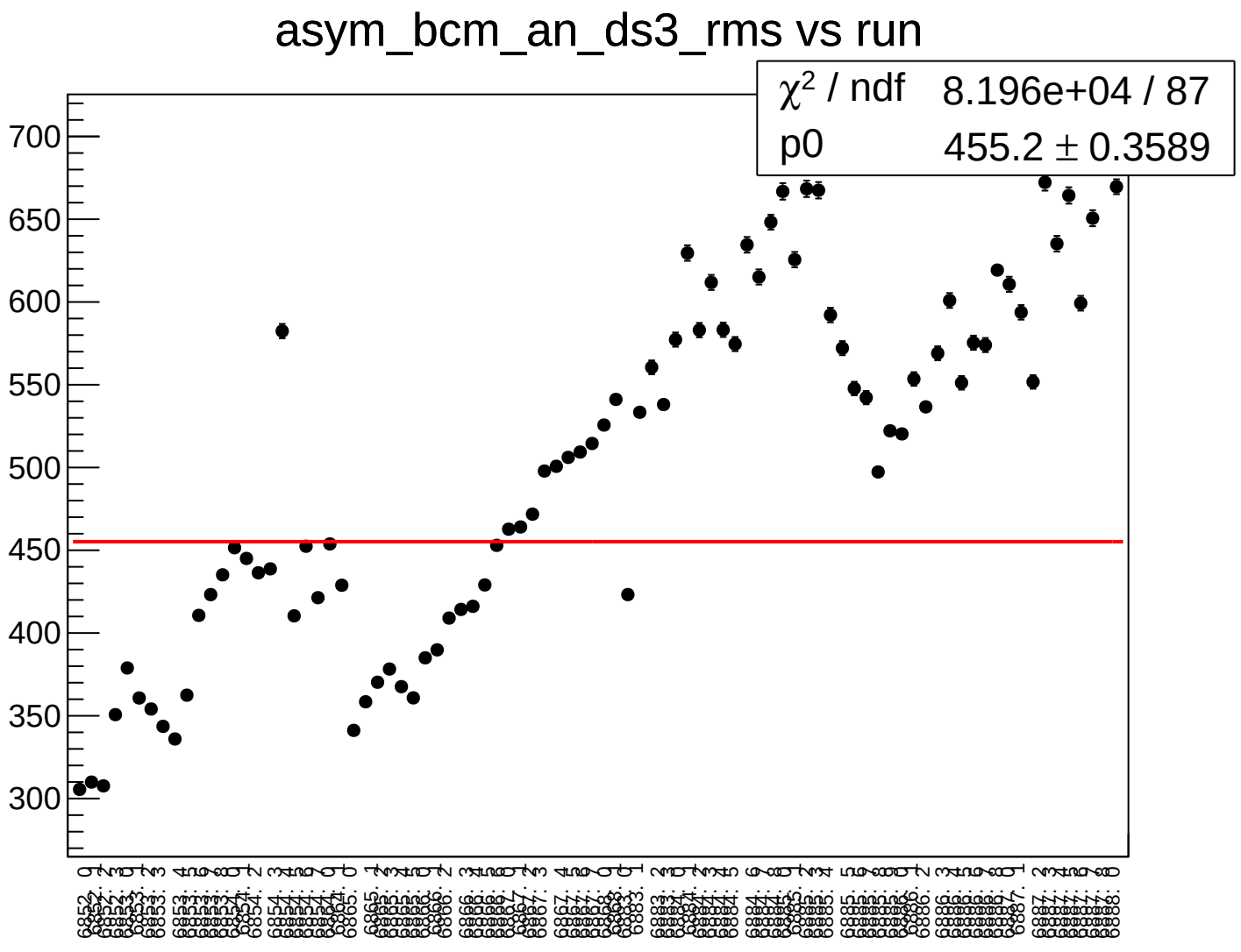

asym_bcm_an_ds_mean vs run
χ² / ndf 14.1 / 87
p0 −67.61 ± 505
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 136.1
Std Dev 0
1
0.5
0
−0.5
−1

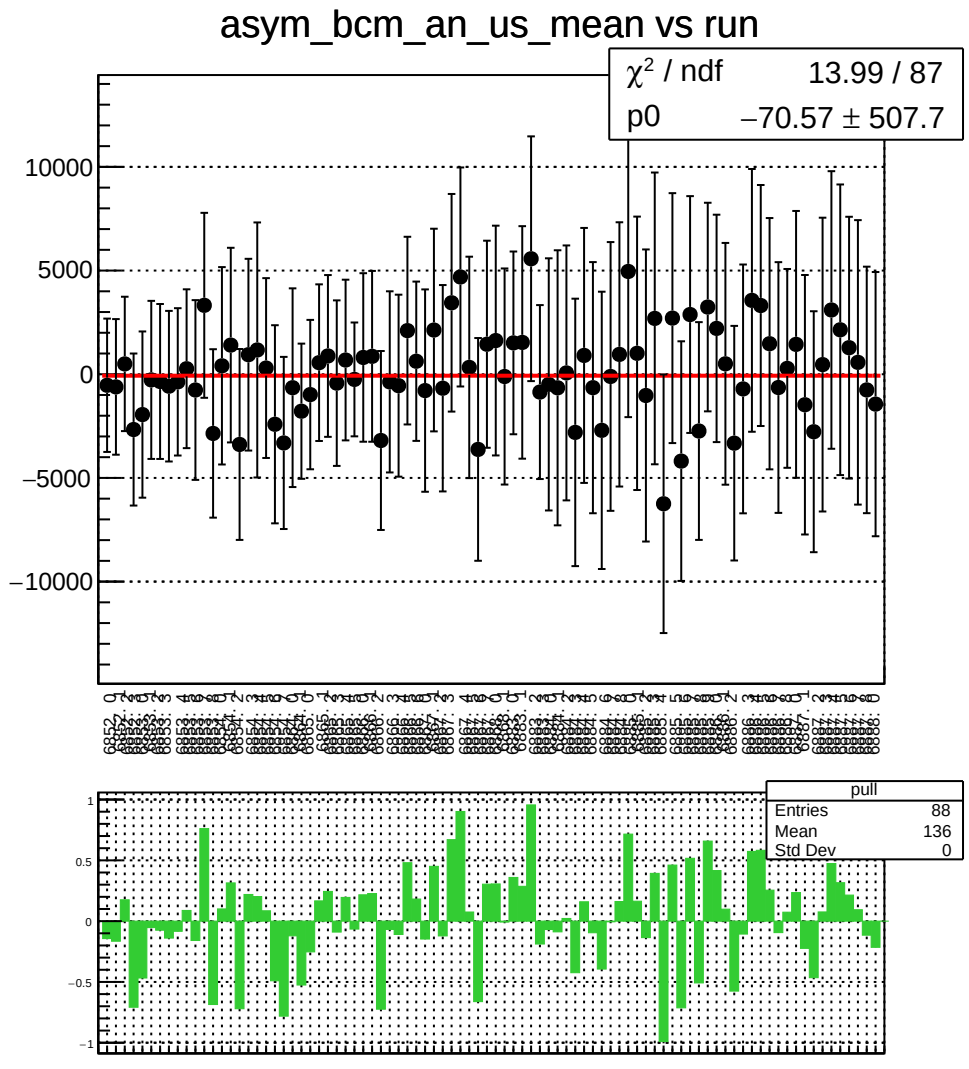

pull1D
Entries 88
Mean 0.01717
Std Dev 0.3999
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

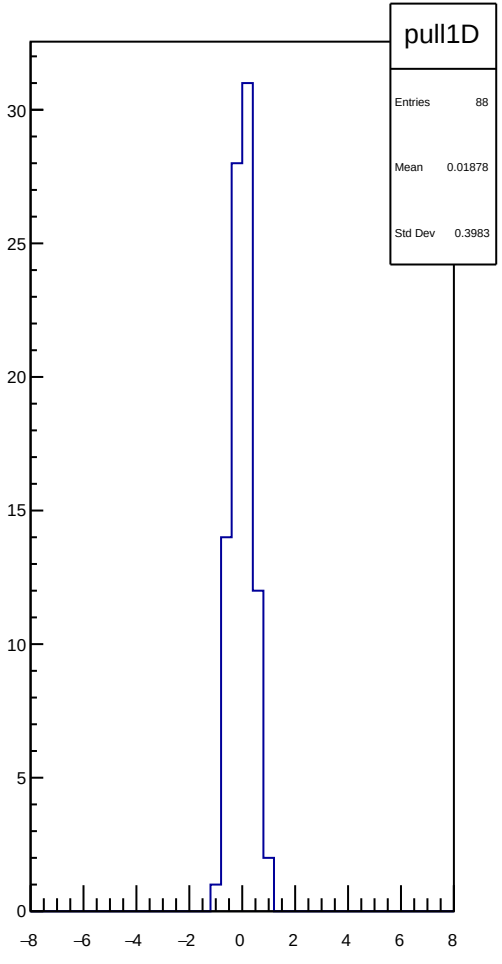

asym_bcm_an_ds_rms vs run
χ² / ndf 8.169e+04 / 87
p0 453 ± 0.3571
700
650
600
550
500
450
400
350
300

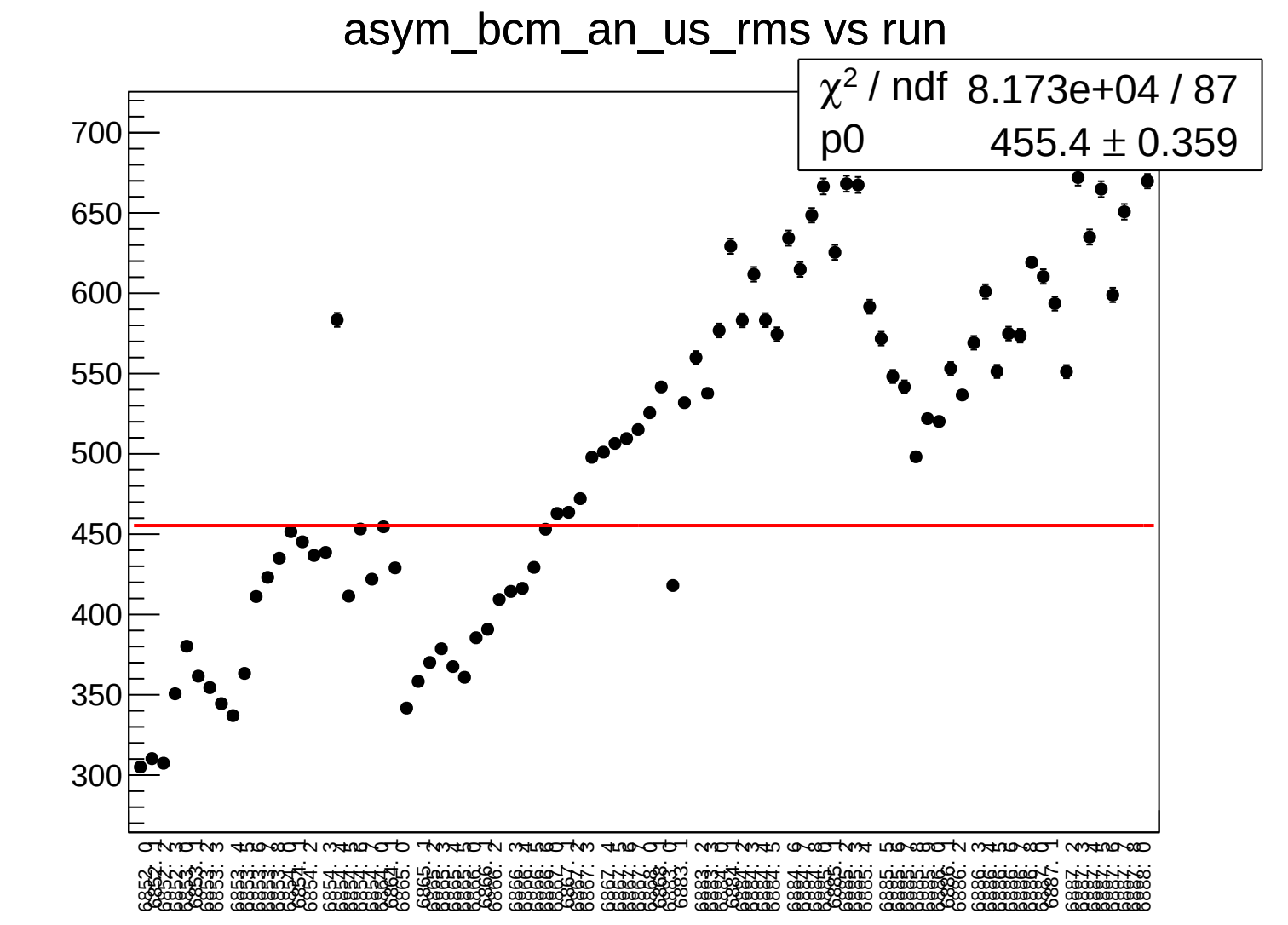

asym_bcm_an_ds3_mean vs run
χ² / ndf 14.18 / 87
p0 −54.95 ± 507.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 134.9
Std Dev 0
1
0.5
0
−0.5
−1

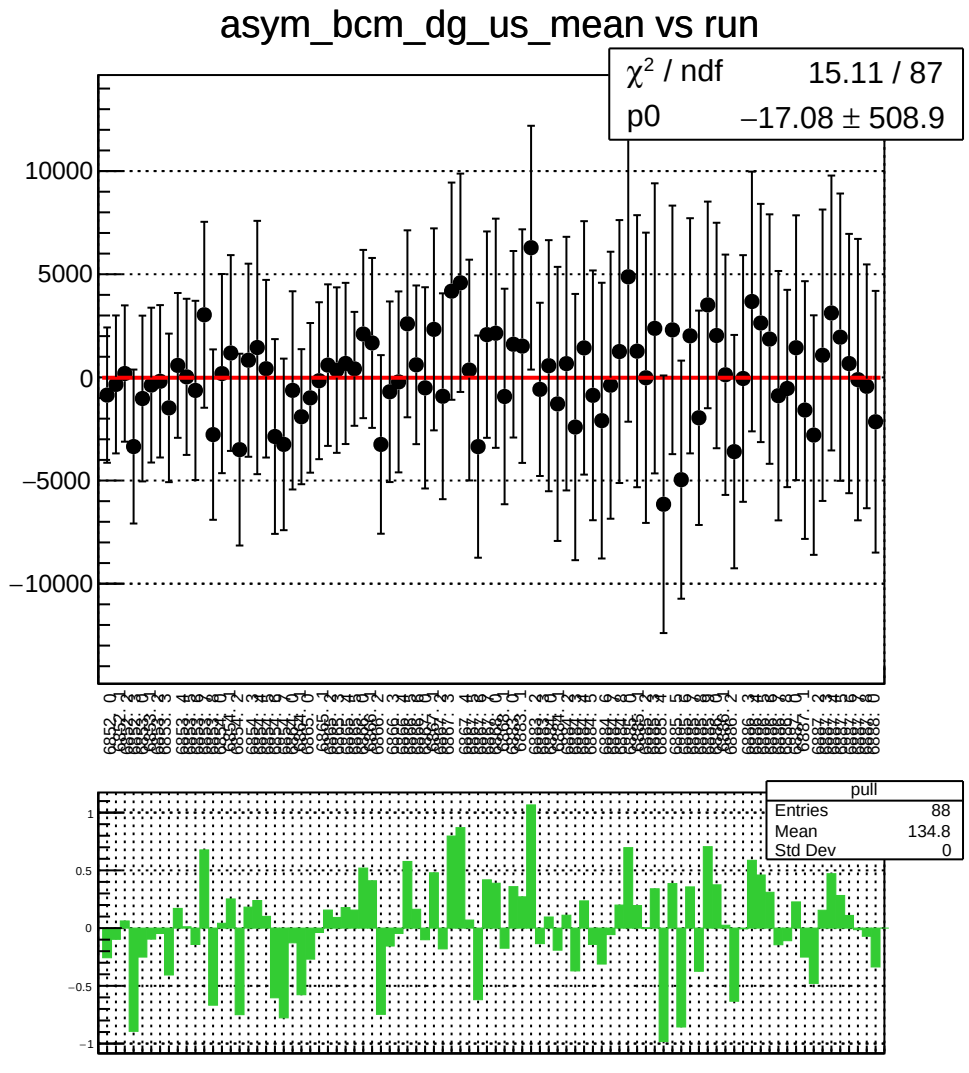

pull1D
Entries 88
Mean 0.01711
Std Dev 0.4011
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

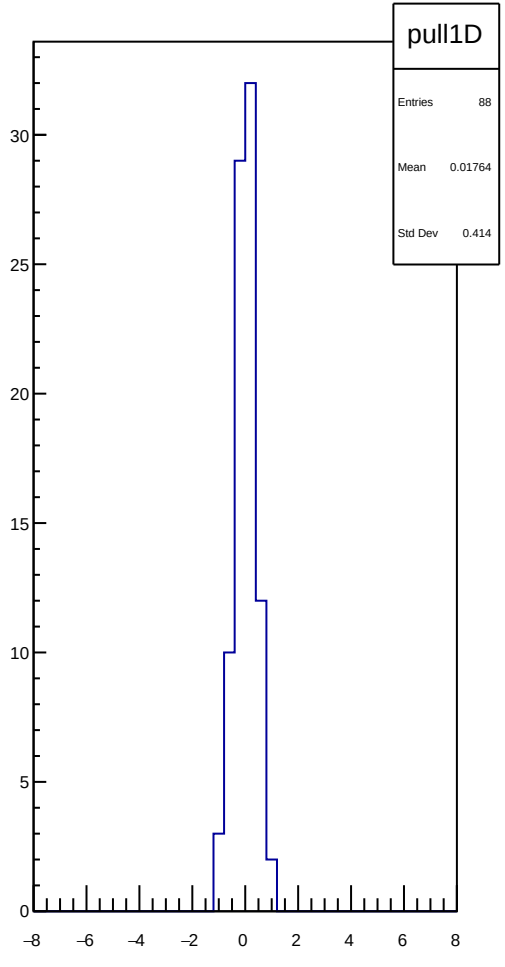

asym_bcm_an_ds3_rms vs run
χ² / ndf 8.196e+04 / 87
p0 455.2 ± 0.3589
700
650
600
550
500
450
400
350
300

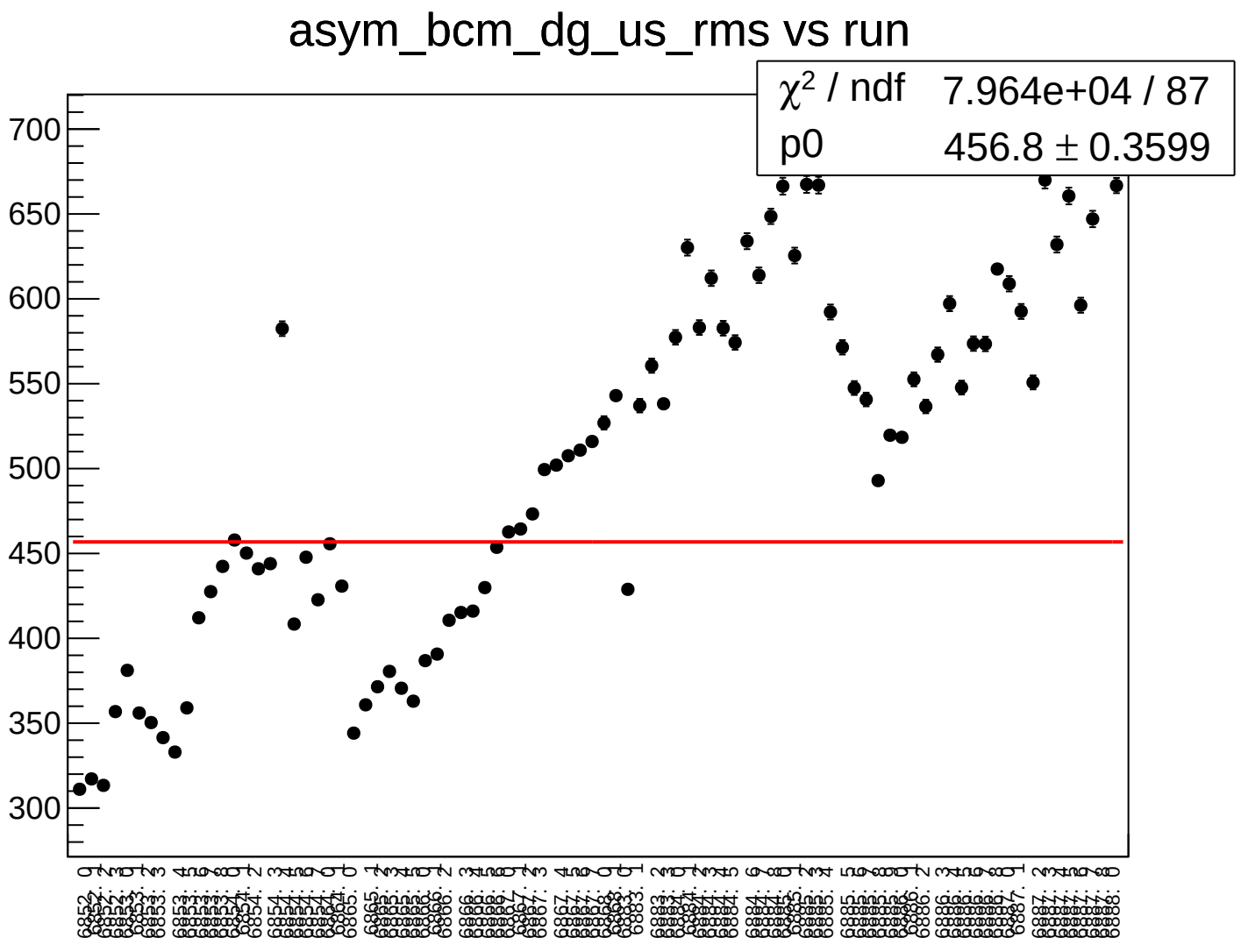

asym_bcm_an_us_mean vs run
χ² / ndf 13.99 / 87
p0 −70.57 ± 507.7
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 136
Std Dev 0
1
0.5
0
−0.5
−1

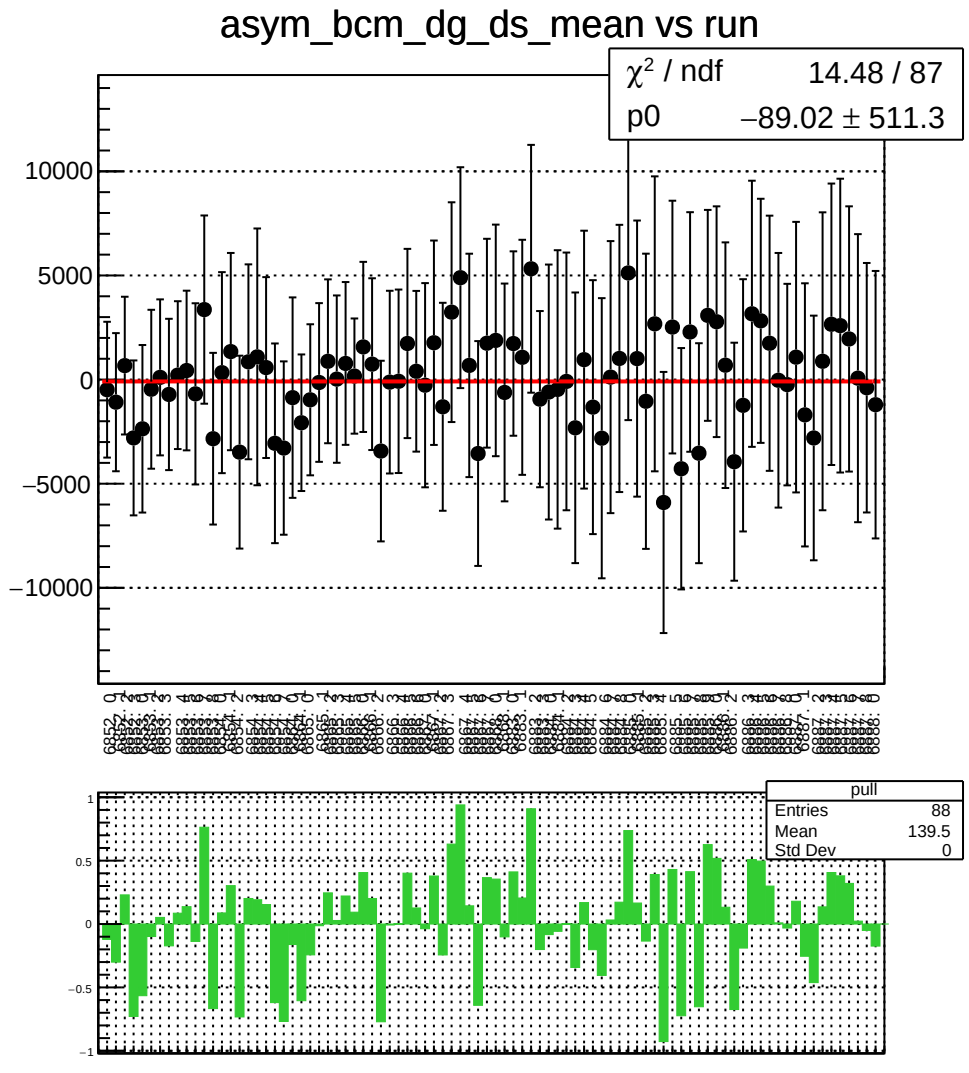

pull1D
Entries 88
Mean 0.01878
Std Dev 0.3983
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

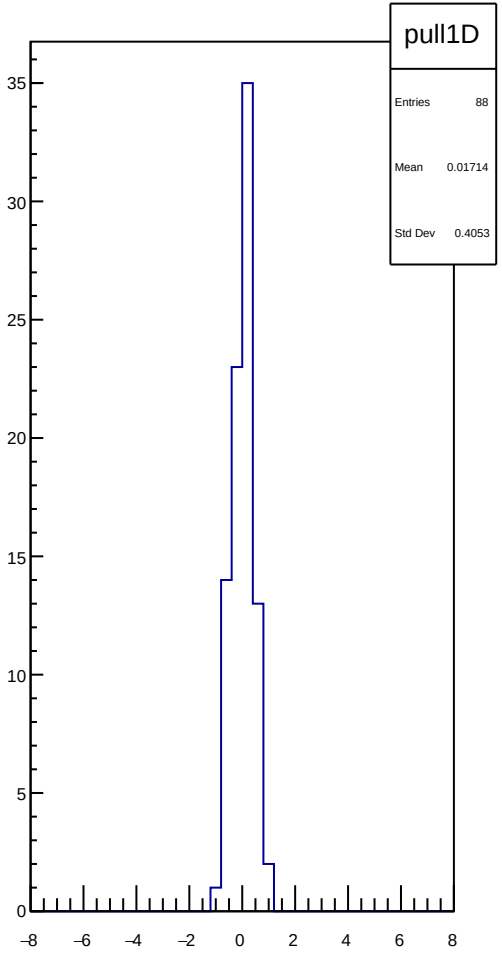

asym_bcm_an_us_rms vs run
χ² / ndf 8.173e+04 / 87
p0 455.4 ± 0.359
700
650
600
550
500
450
400
350
300

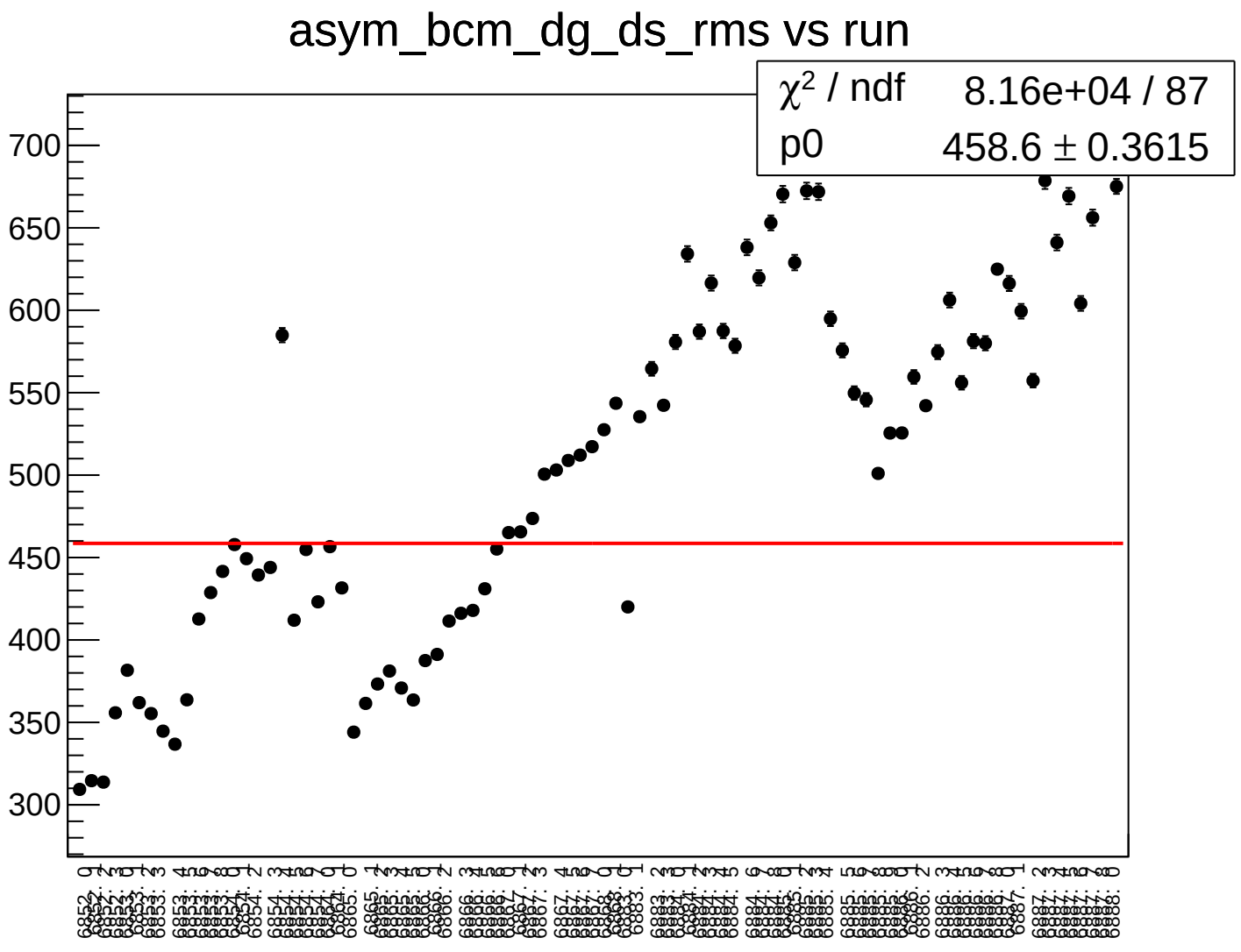

asym_bcm_dg_us_mean vs run
χ² / ndf 15.11 / 87
p0 −17.08 ± 508.9
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 134.8
Std Dev 0
1
0.5
0
−0.5
−1

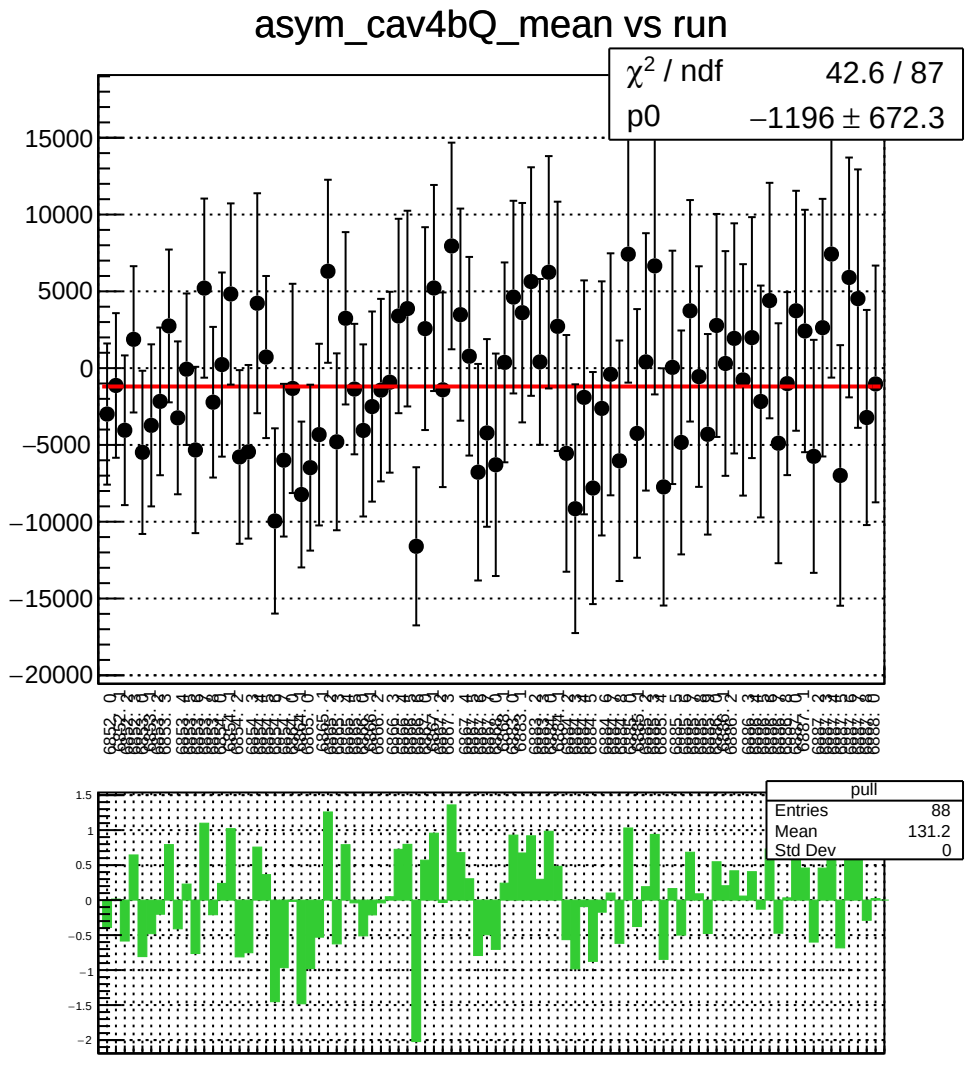

pull1D
Entries 88
Mean 0.01764
Std Dev 0.414
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

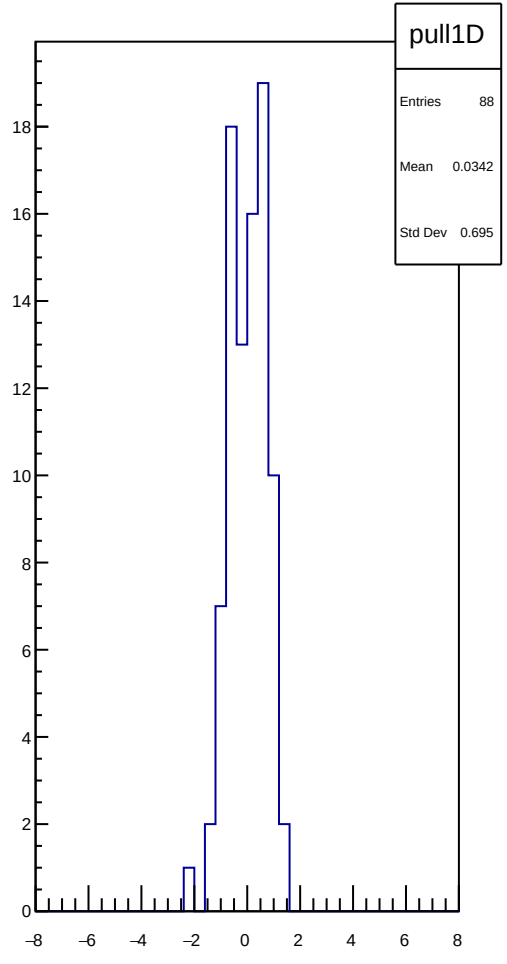

asym_bcm_dg_us_rms vs run
χ² / ndf 7.964e+04 / 87
p0 456.8 ± 0.3599
700
650
600
550
500
450
400
350
300

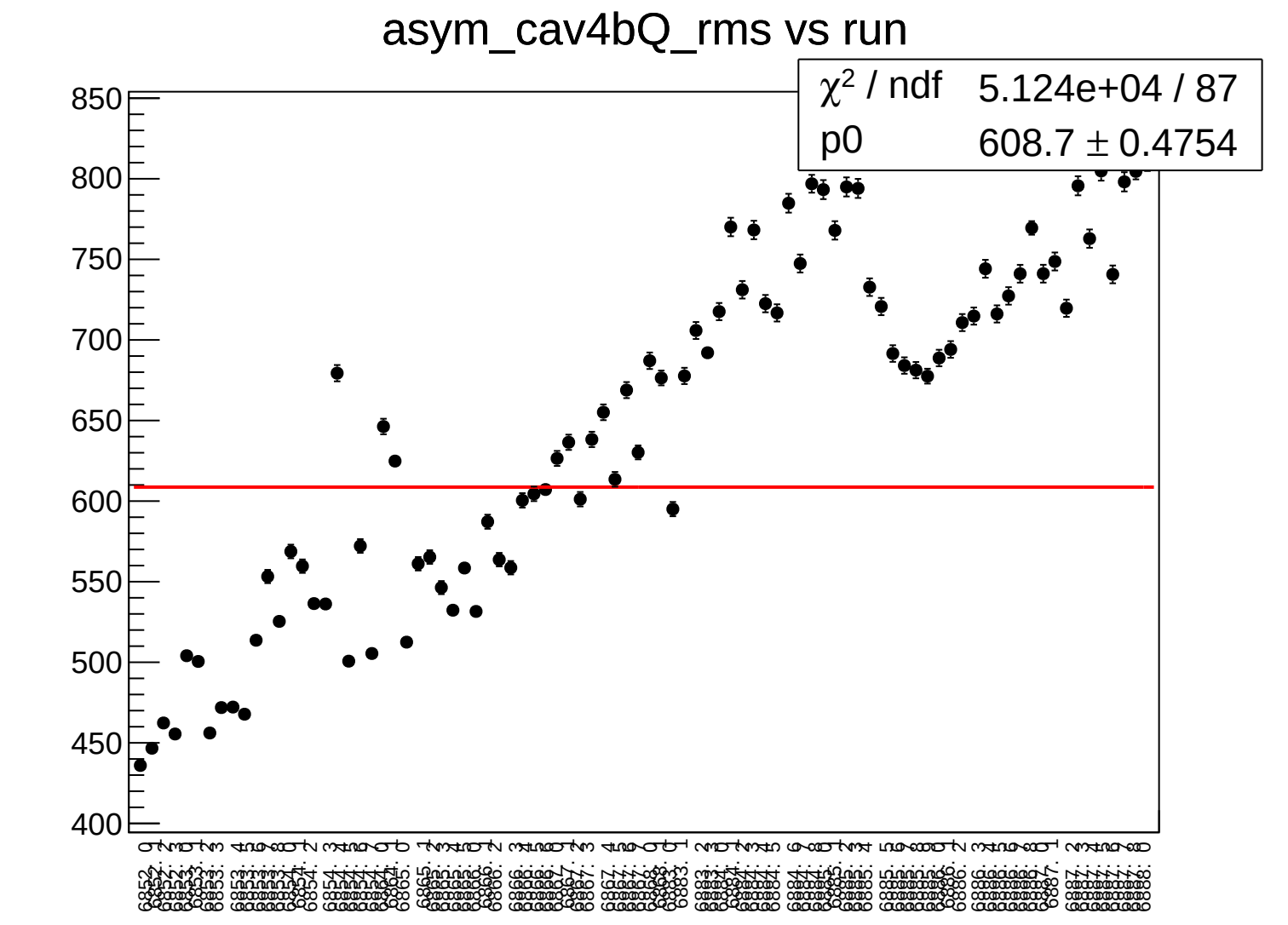

asym_bcm_dg_ds_mean vs run
χ² / ndf 14.48 / 87
p0 −89.02 ± 511.3
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 139.5
Std Dev 0
1
0.5
0
−0.5
−1

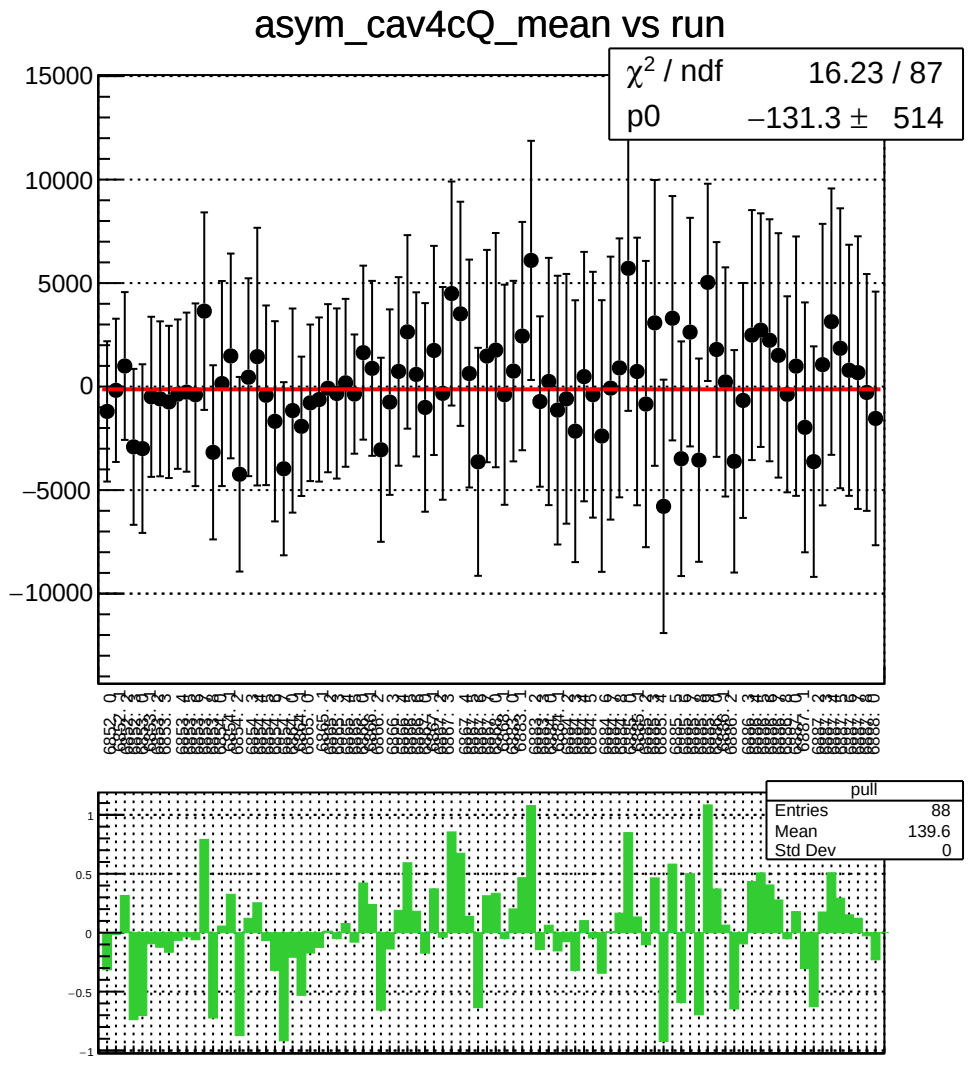

pull1D
Entries 88
Mean 0.01714
Std Dev 0.4053
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

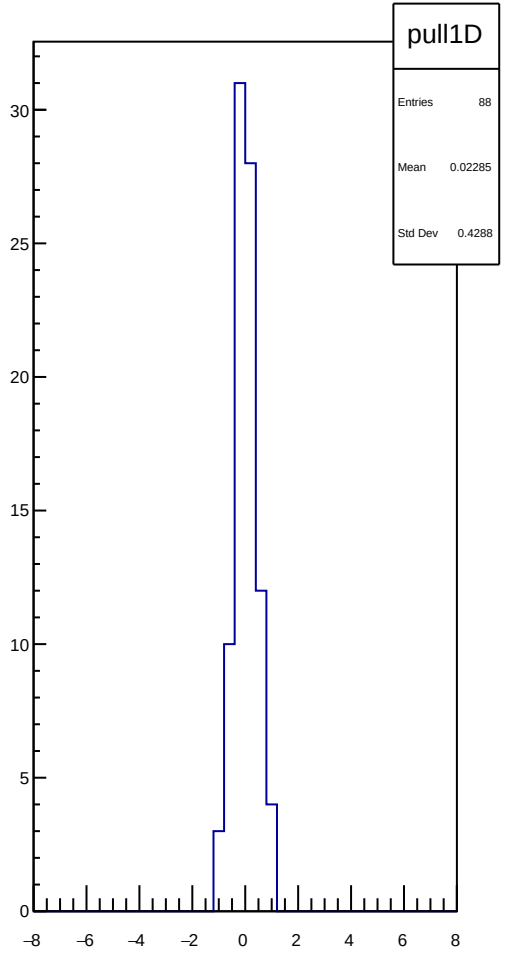

asym_bcm_dg_ds_rms vs run
χ² / ndf 8.16e+04 / 87
p0 458.6 ± 0.3615
700
650
600
550
500
450
400
350
300

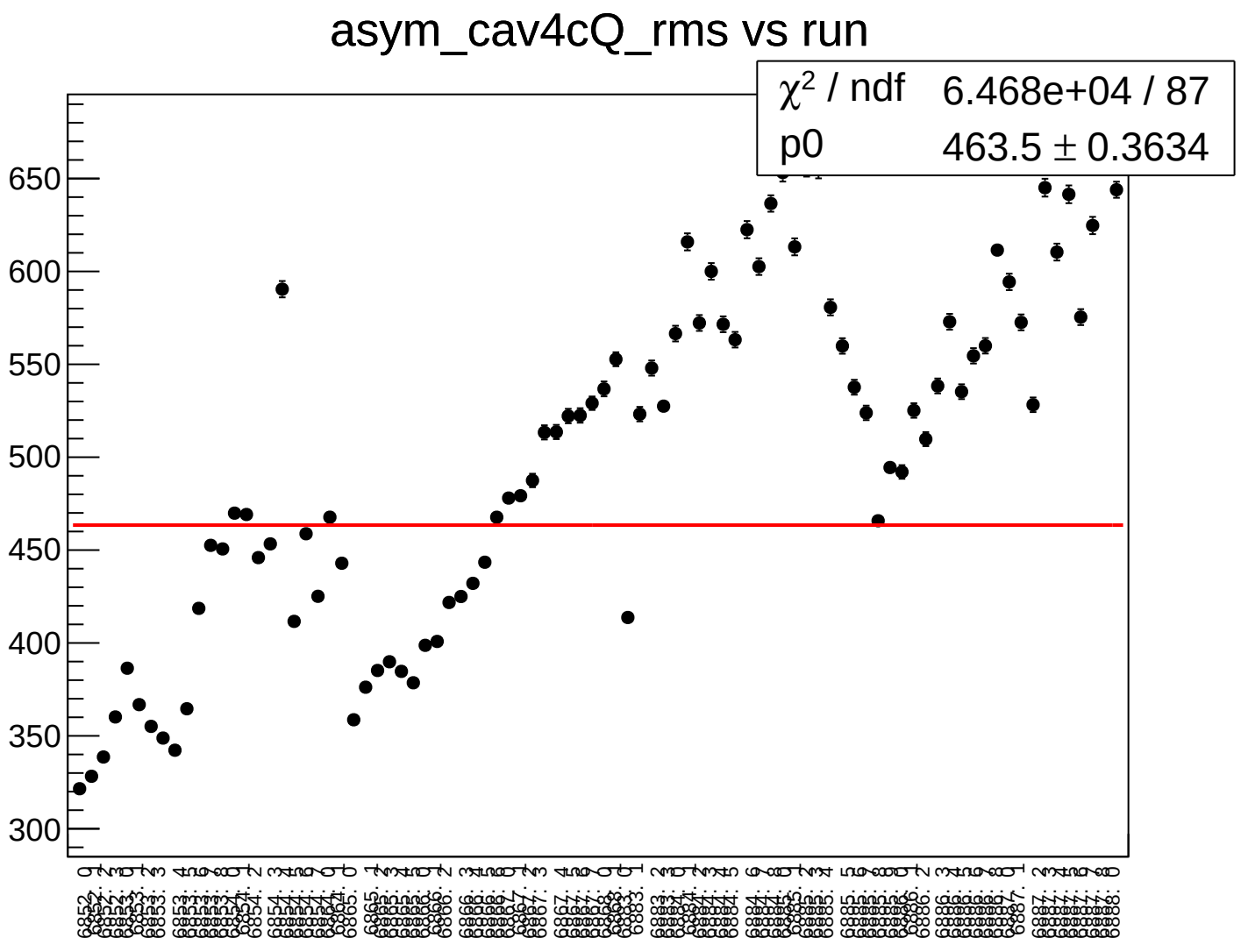

asym_cav4bQ_mean vs run
χ² / ndf 42.6 / 87
p0 −1196 ± 672.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 131.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

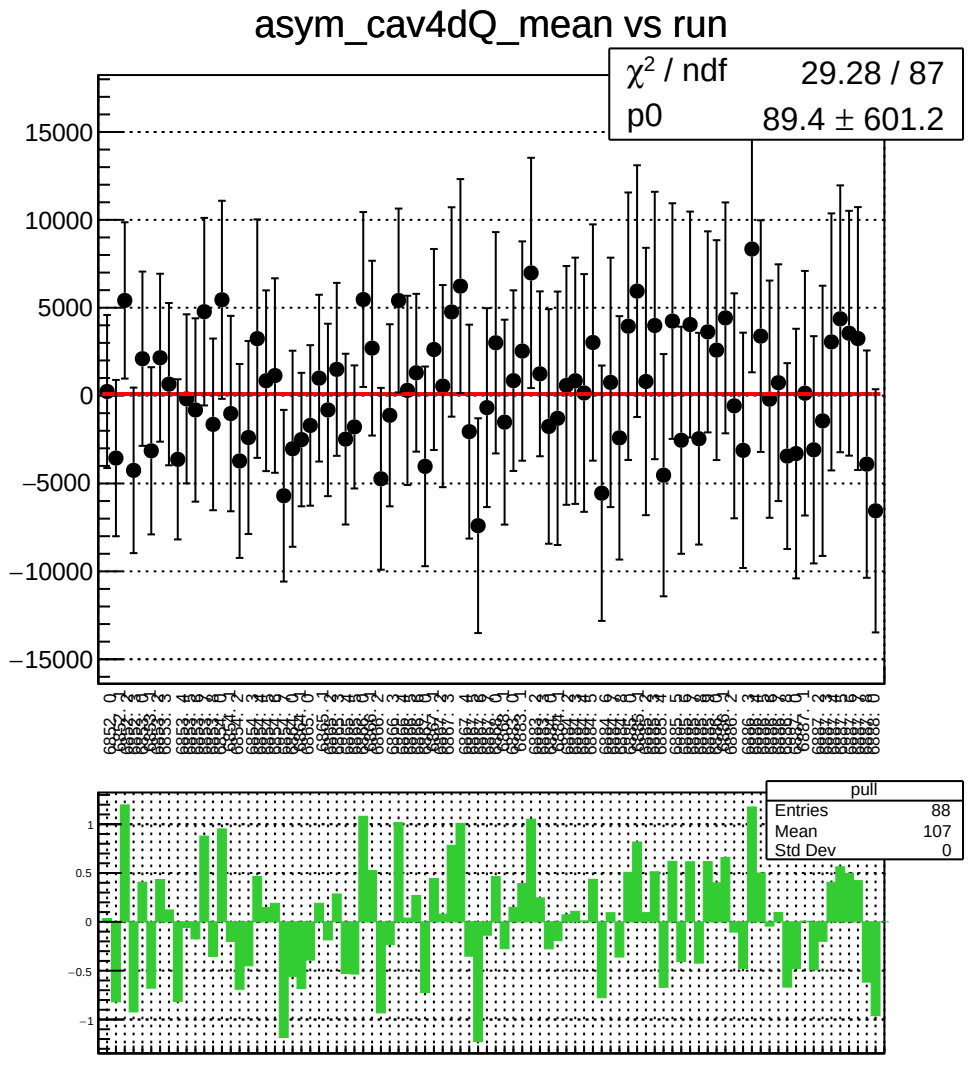

pull1D
Entries 88
Mean 0.0342
Std Dev 0.695
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

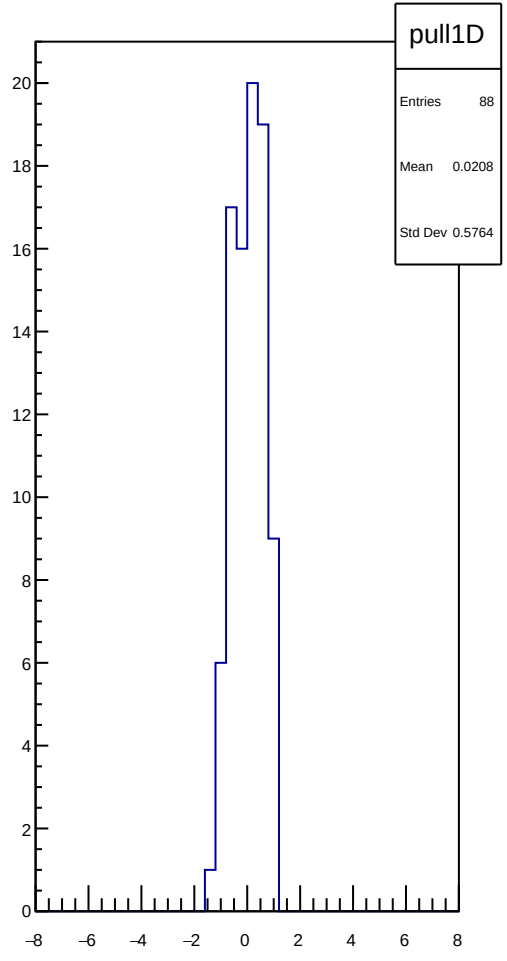

asym_cav4bQ_rms vs run
χ² / ndf 5.124e+04 / 87
p0 608.7 ± 0.4754
850
800
750
700
650
600
550
500
450
400

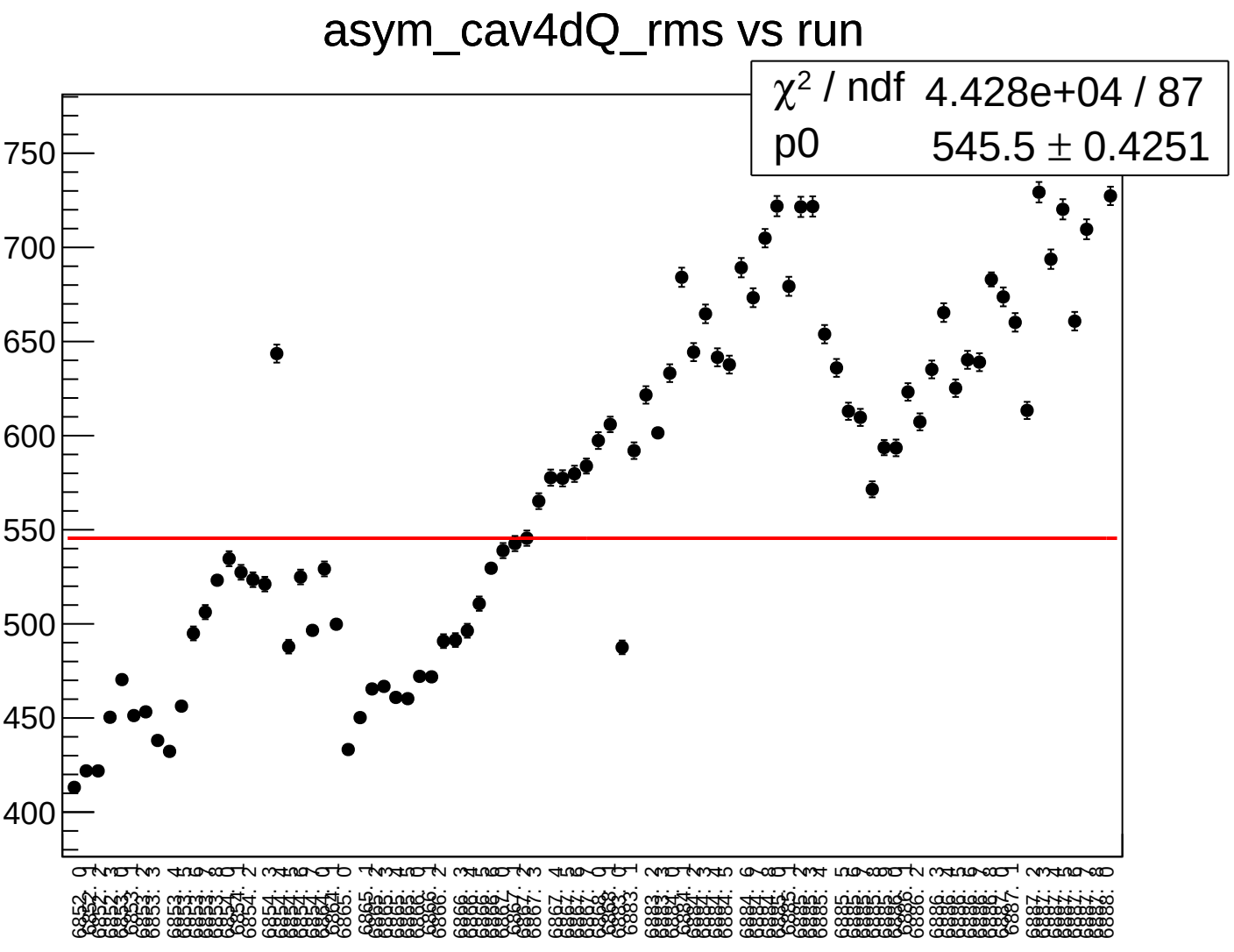

asym_cav4cQ_mean vs run
χ² / ndf 16.23 / 87
p0 −131.3 ± 514
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 139.6
Std Dev 0
1
0.5
0
−0.5
−1

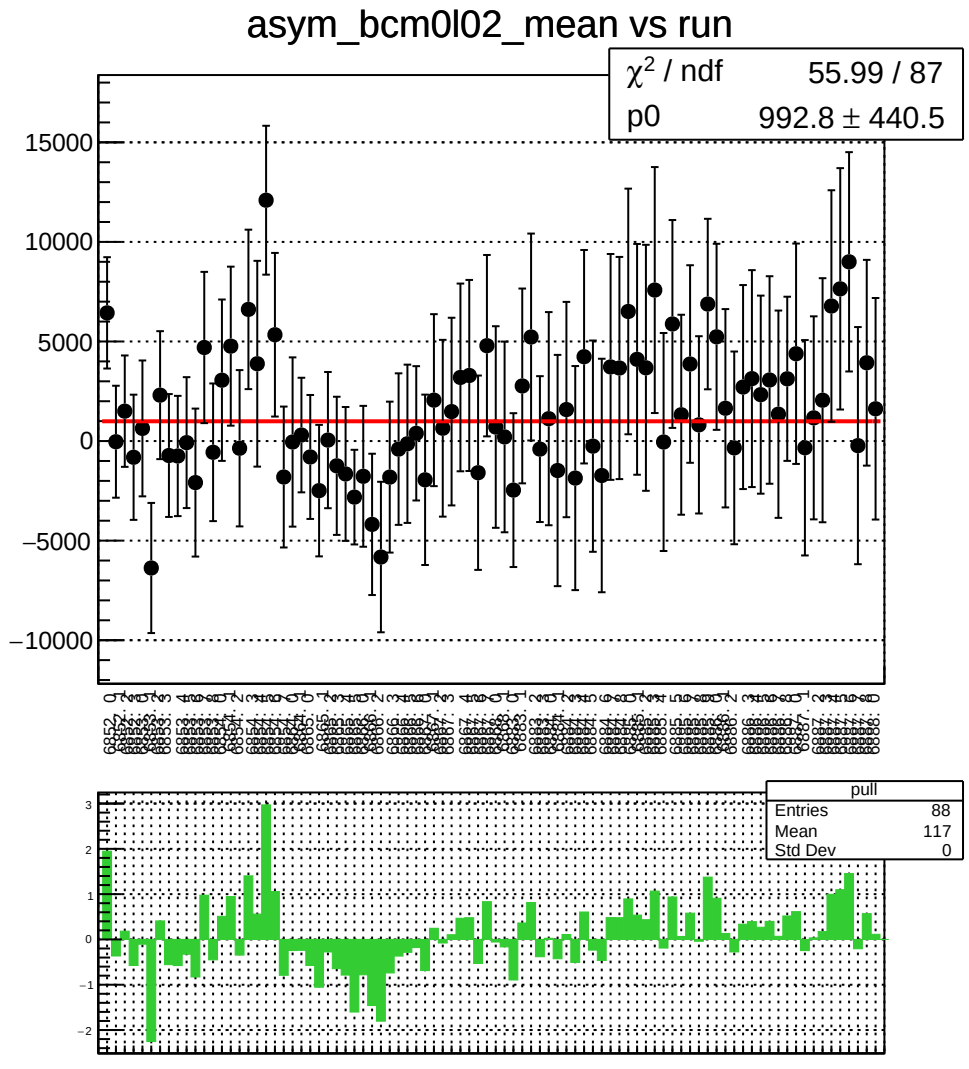

pull1D
Entries 88
Mean 0.02285
Std Dev 0.4288
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

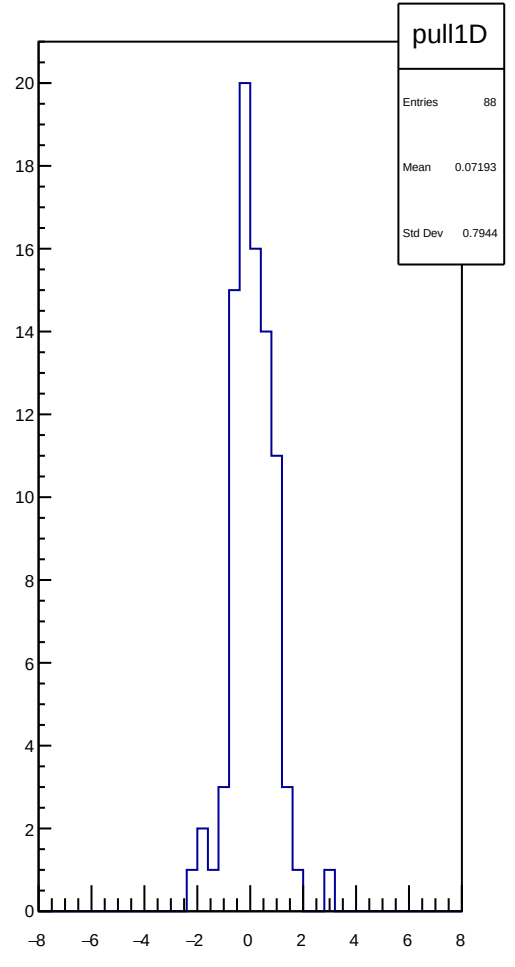

asym_cav4cQ_rms vs run
χ² / ndf 6.468e+04 / 87
p0 463.5 ± 0.3634
650
600
550
500
450
400
350
300

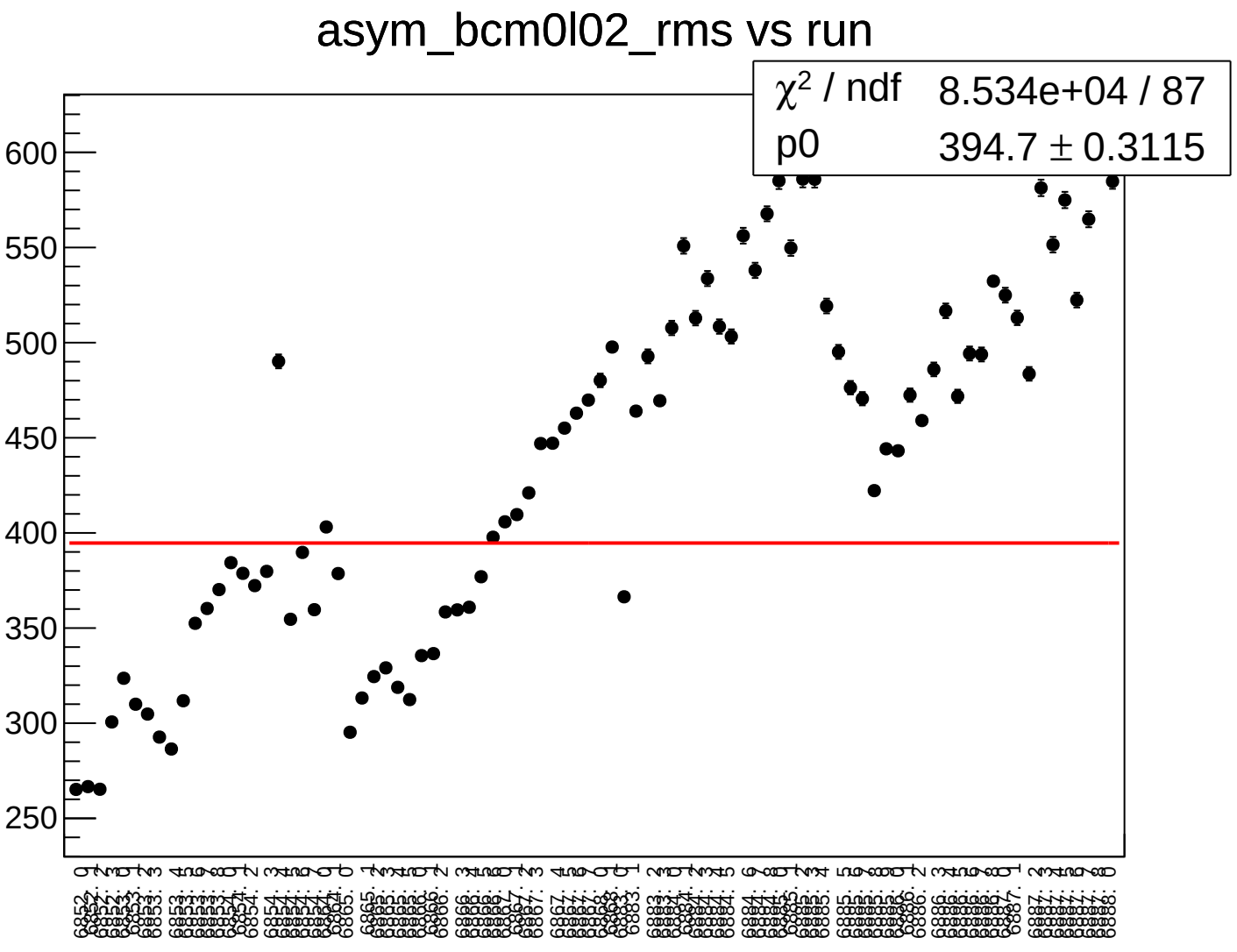

asym_cav4dQ_mean vs run
χ² / ndf 29.28 / 87
p0 89.4 ± 601.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 107
Std Dev 0
1
0.5
0
−0.5
−1

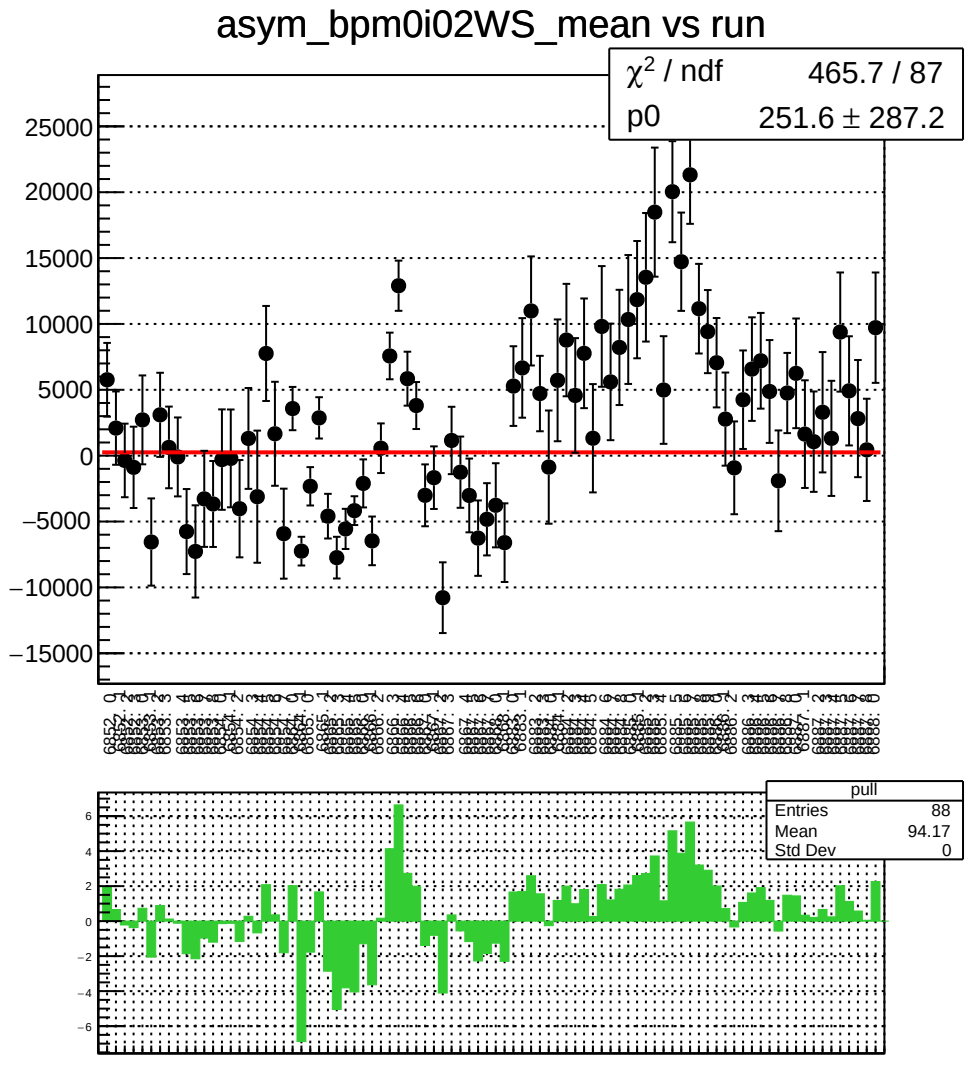

pull1D
Entries 88
Mean 0.0208
Std Dev 0.5764
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

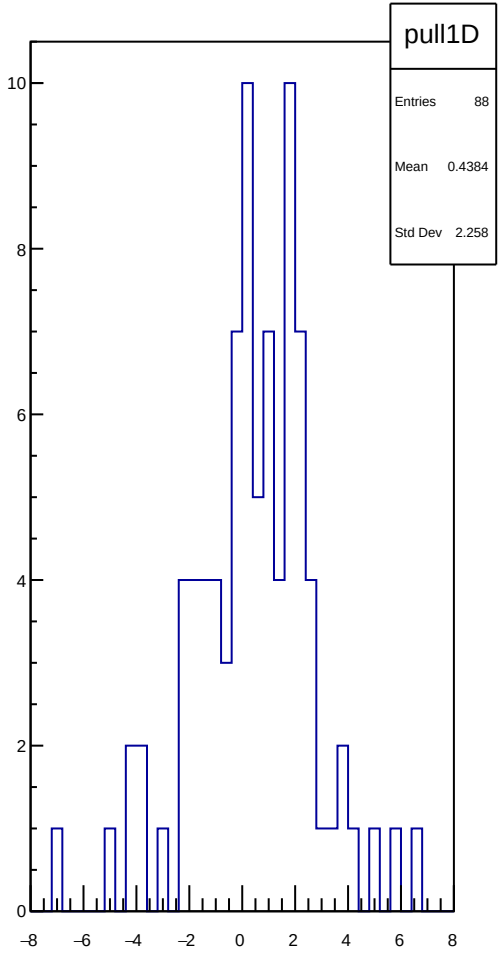

asym_cav4dQ_rms vs run
χ² / ndf 4.428e+04 / 87
p0 545.5 ± 0.4251
750
700
650
600
550
500
450
400

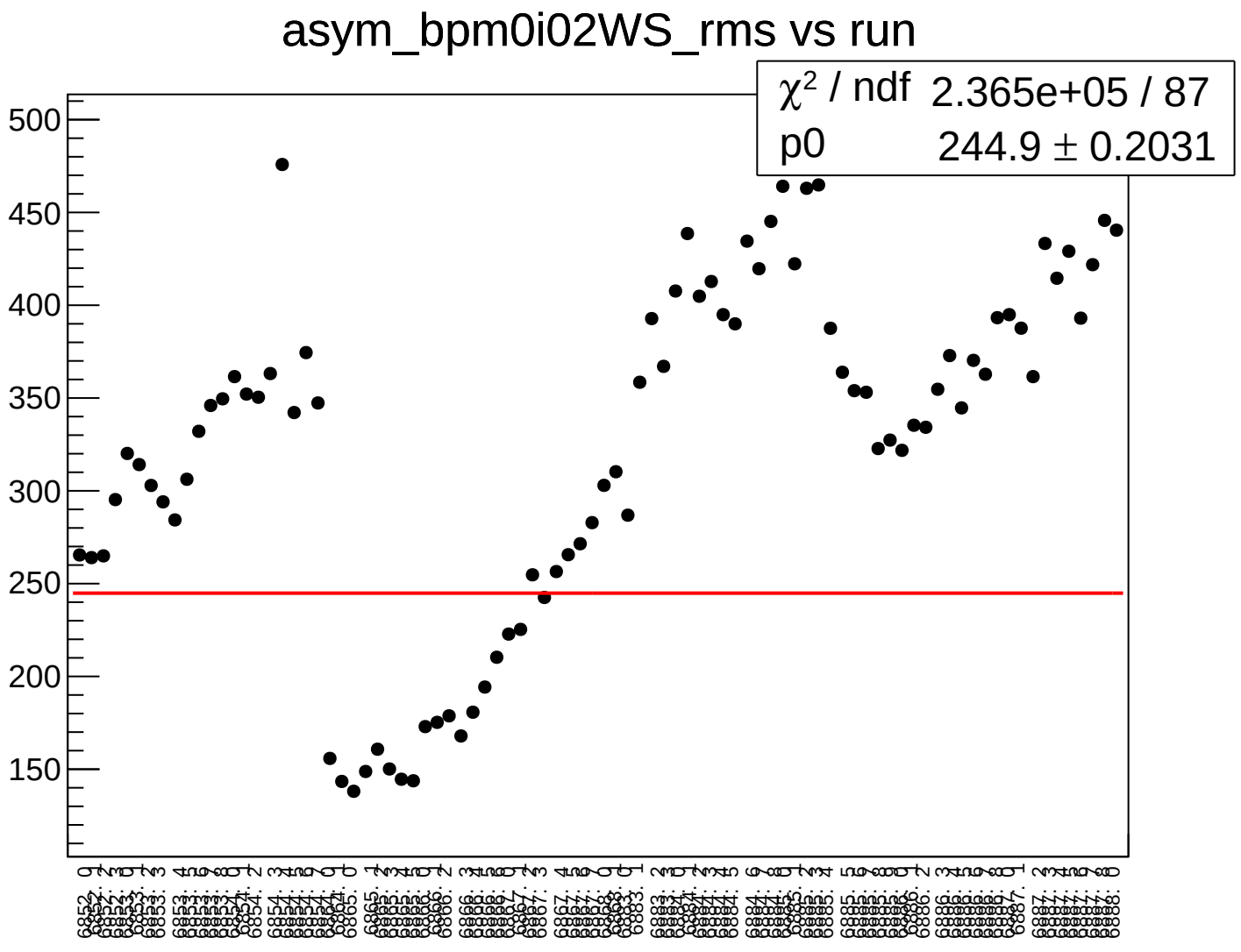

asym_bcm0l02_mean vs run
χ² / ndf 55.99 / 87
p0 992.8 ± 440.5
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 117
Std Dev 0
3
2
1
0
−1
−2

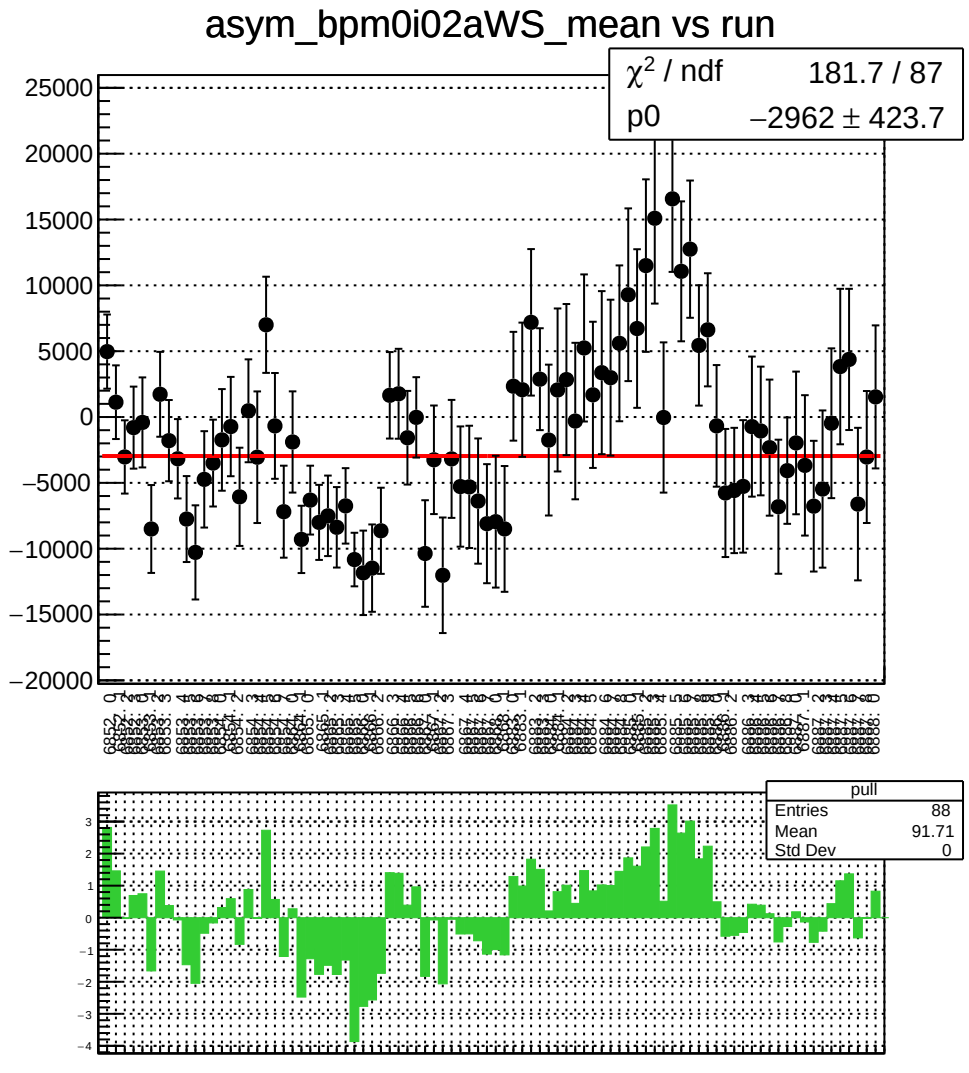

pull1D
Entries 88
Mean 0.07193
Std Dev 0.7944
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

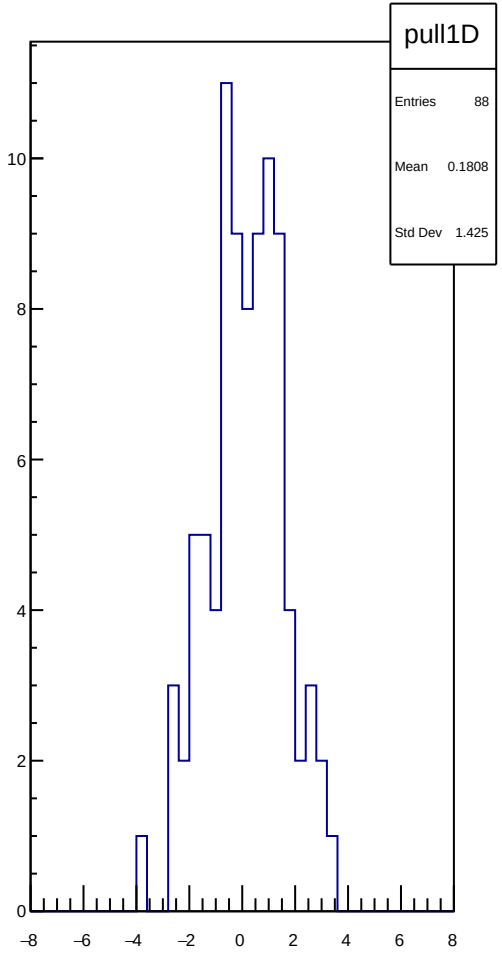

asym_bcm0l02_rms vs run
χ² / ndf 8.534e+04 / 87
p0 394.7 ± 0.3115
600
550
500
450
400
350
300
250

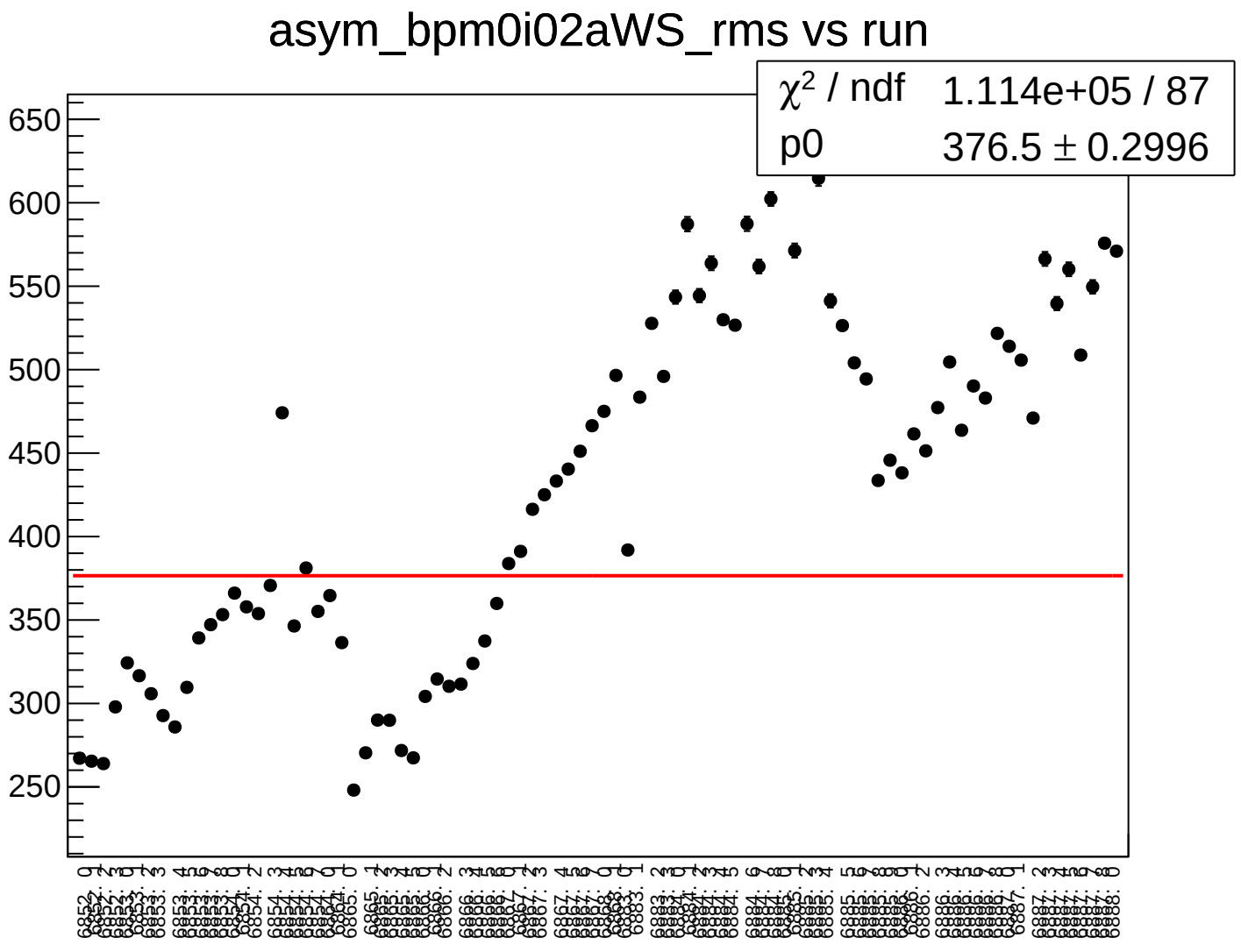

asym_bpm0i02WS_mean vs run
χ² / ndf 465.7 / 87
p0 251.6 ± 287.2
pull
Entries 88
Mean 94.17
Std Dev 0

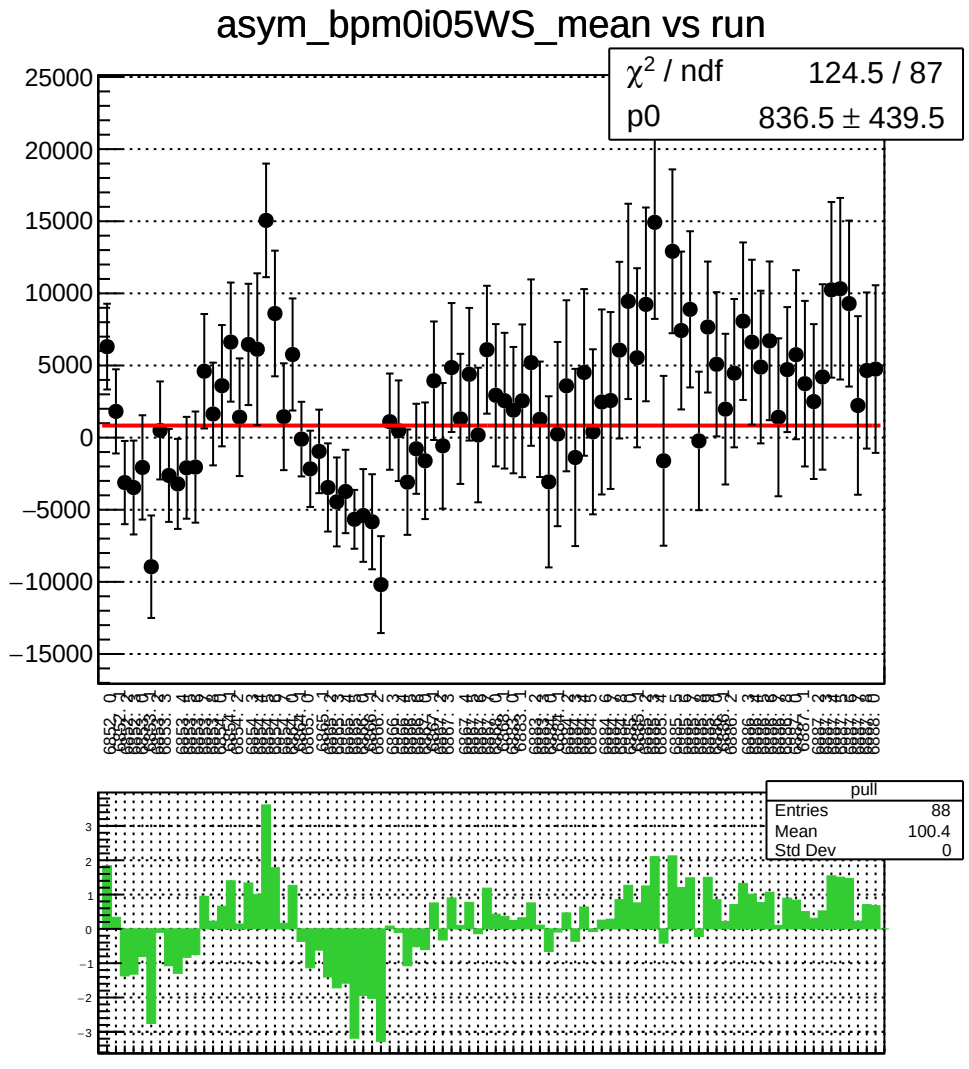

pull1D
Entries 88
Mean 0.4384
Std Dev 2.258

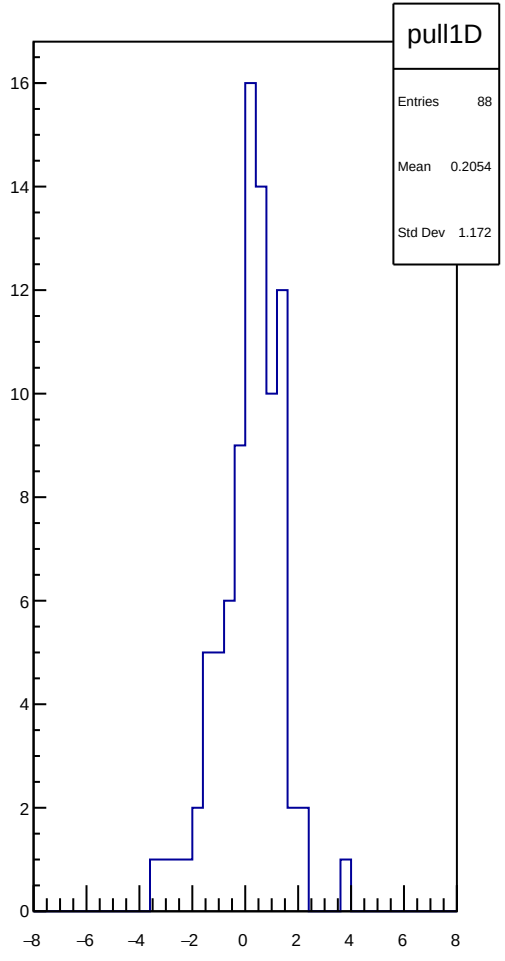

asym_bpm0i02WS_rms vs run
χ² / ndf 2.365e+05 / 87
p0 244.9 ± 0.2031
500
450
400
350
300
250
200
150

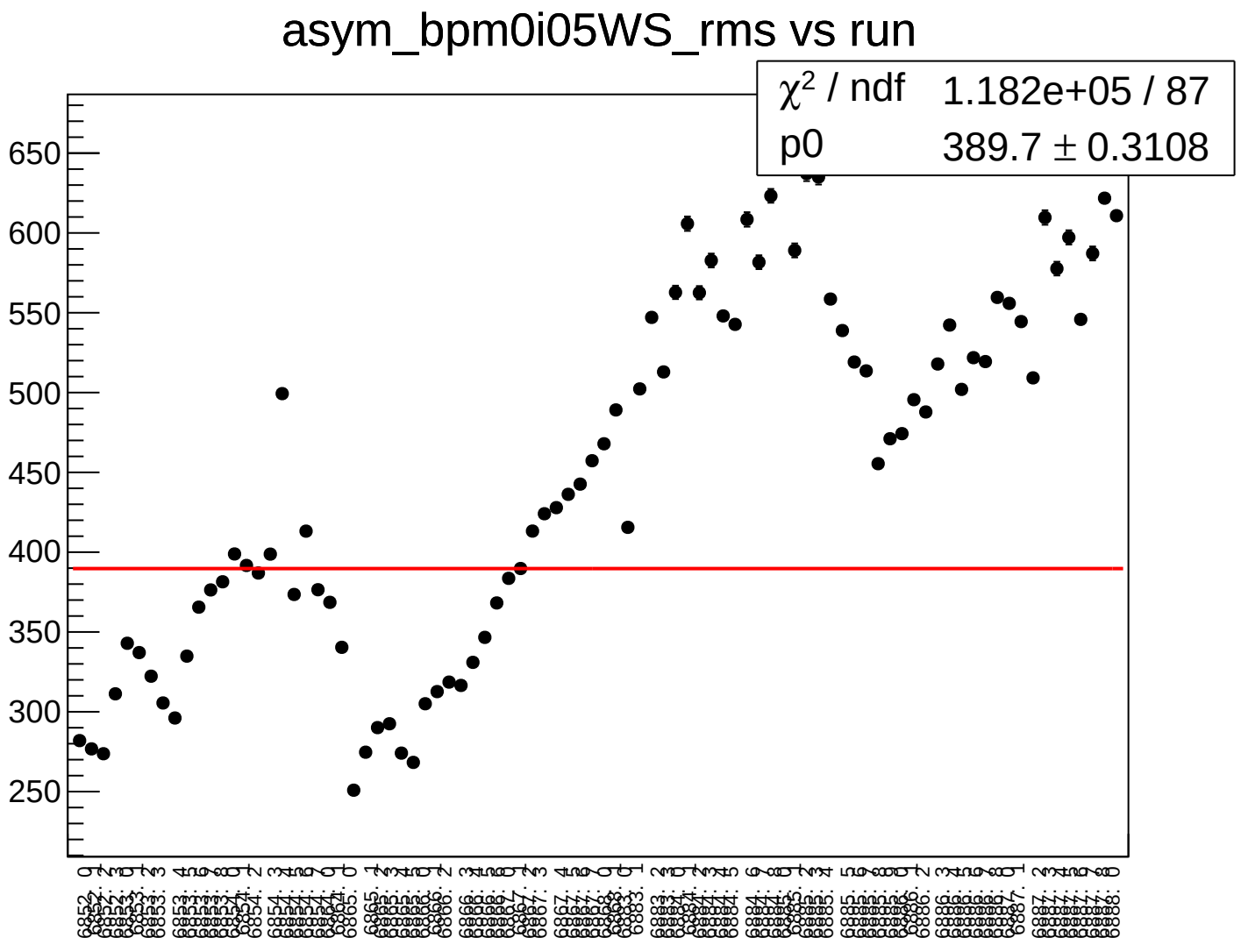

asym_bpm0i02aWS_mean vs run
χ² / ndf 181.7 / 87
p0 −2962 ± 423.7
pull
Entries 88
Mean 91.71
Std Dev 0

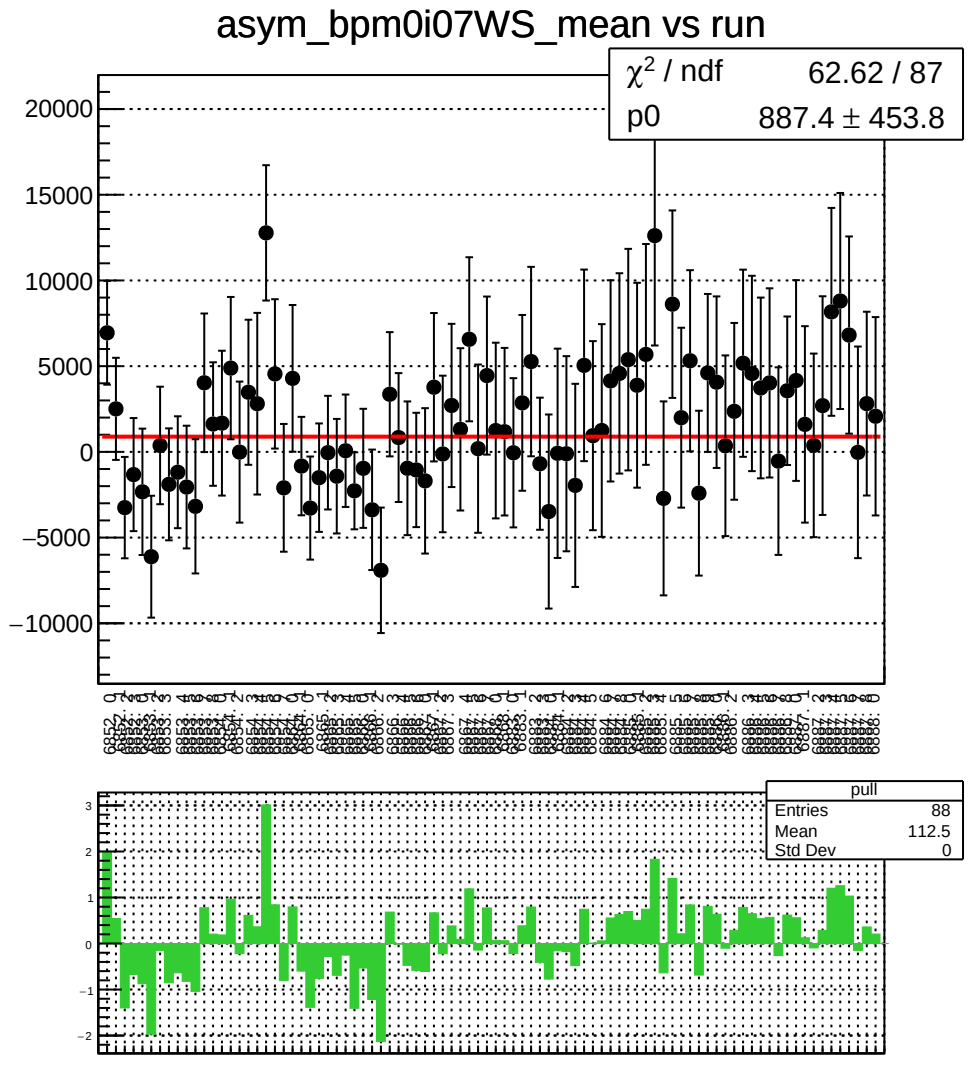

pull1D
Entries 88
Mean 0.1808
Std Dev 1.425

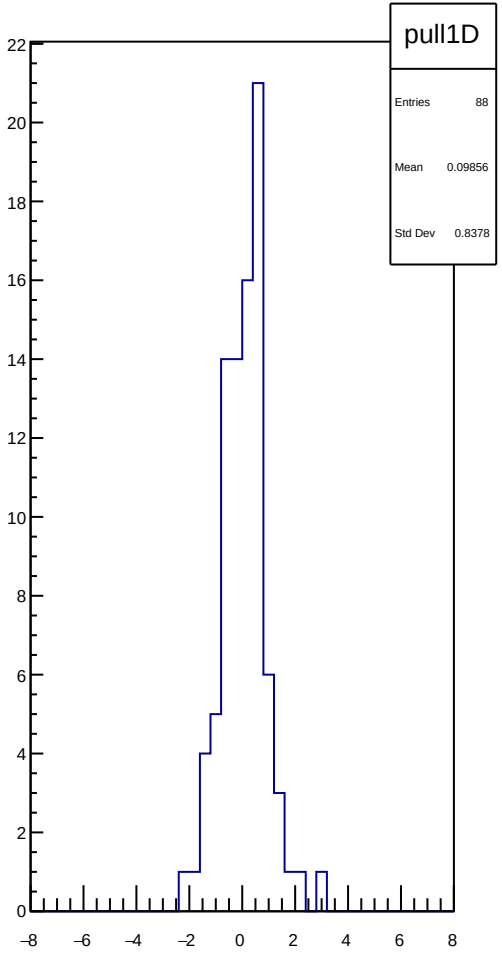

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.114e+05 / 87
p0 376.5 ± 0.2996
650
600
550
500
450
400
350
300
250

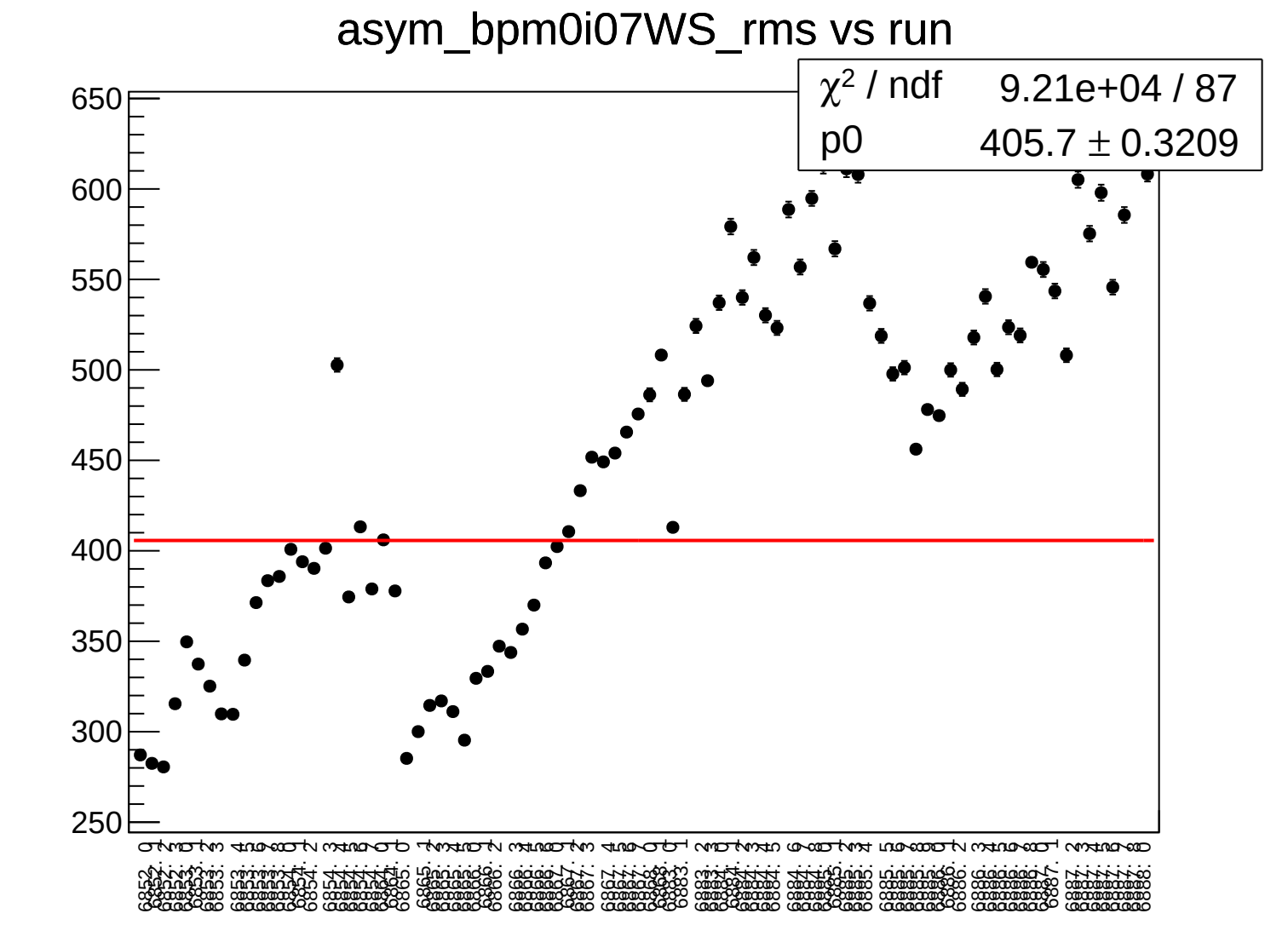

asym_bpm0i05WS_mean vs run
χ² / ndf 124.5 / 87
p0 836.5 ± 439.5
pull
Entries 88
Mean 100.4
Std Dev 0

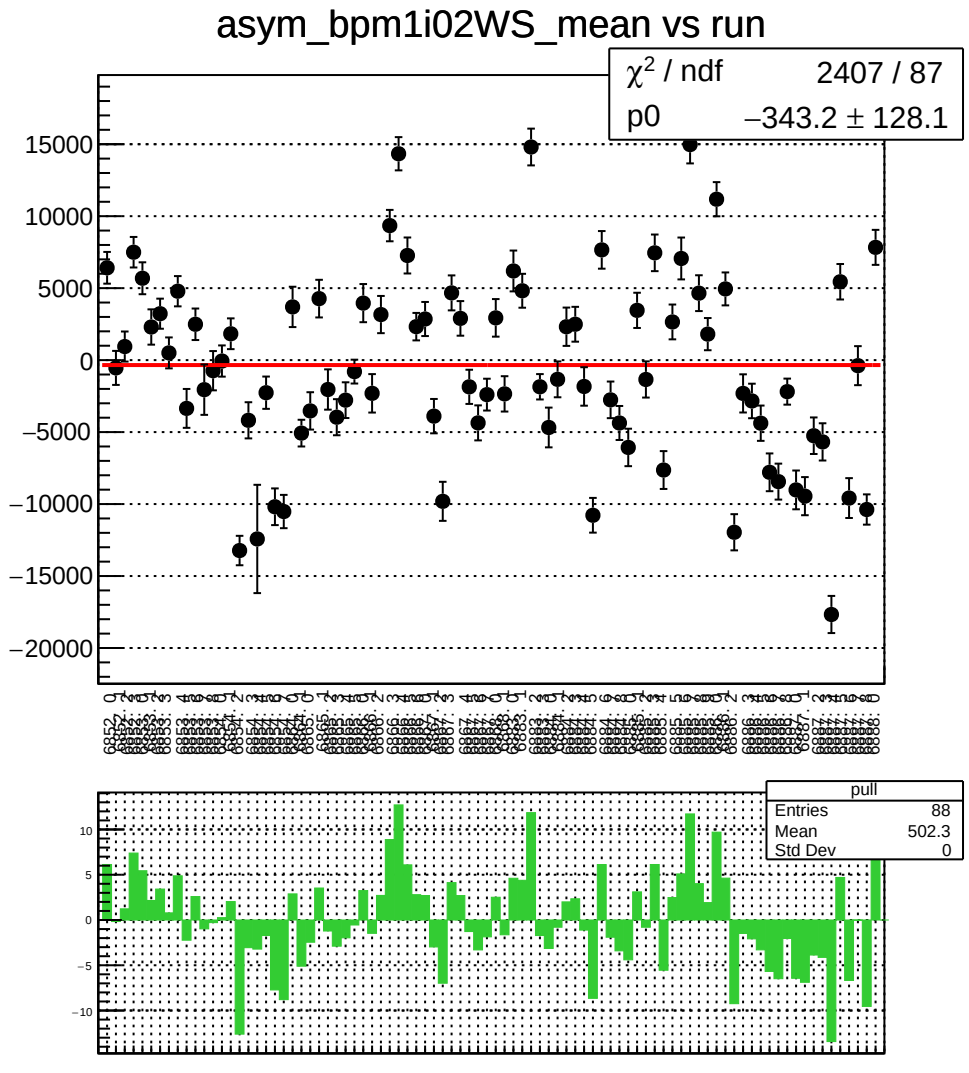

pull1D
Entries 88
Mean 0.2054
Std Dev 1.172

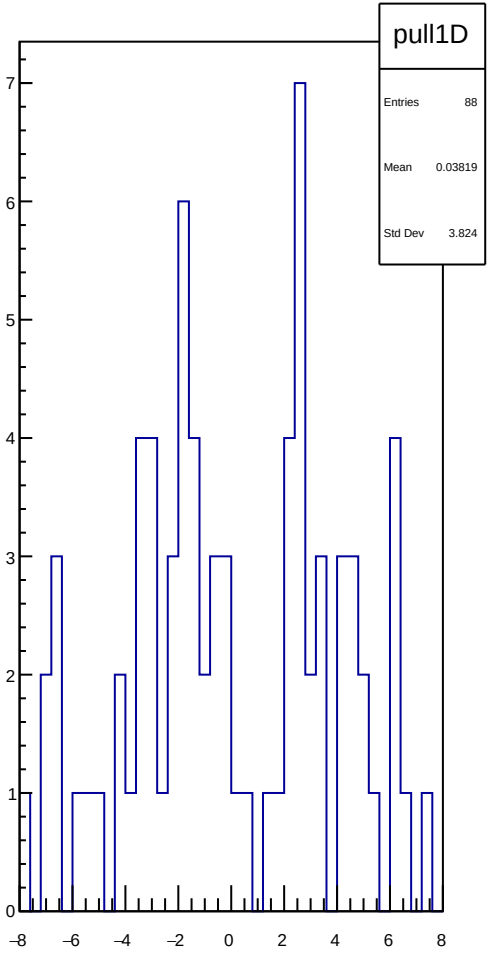

asym_bpm0i05WS_rms vs run
χ² / ndf 1.182e+05 / 87
p0 389.7 ± 0.3108
650
600
550
500
450
400
350
300
250

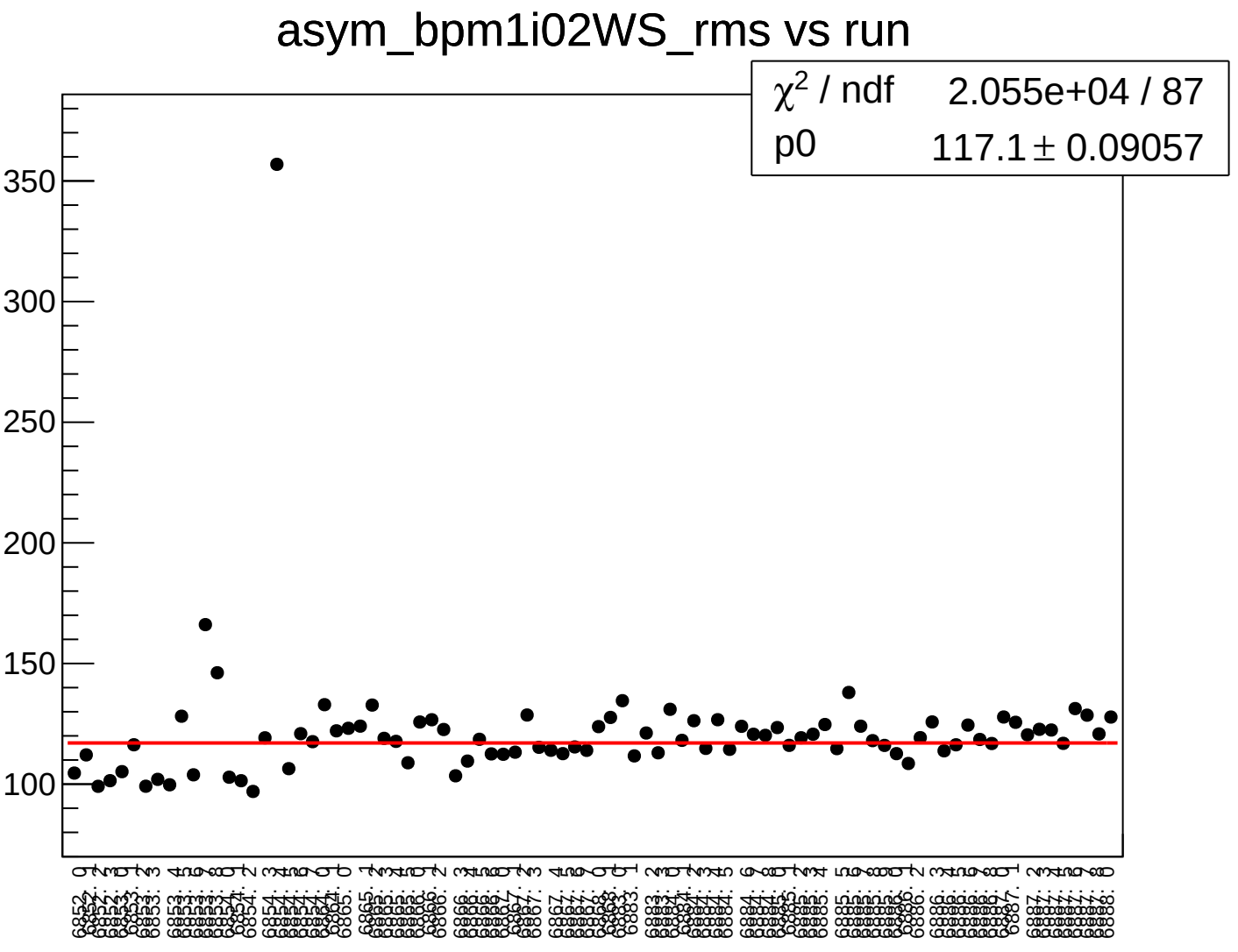

asym_bpm0i07WS_mean vs run
χ² / ndf 62.62 / 87
p0 887.4 ± 453.8
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 112.5
Std Dev 0
3
2
1
0
−1
−2

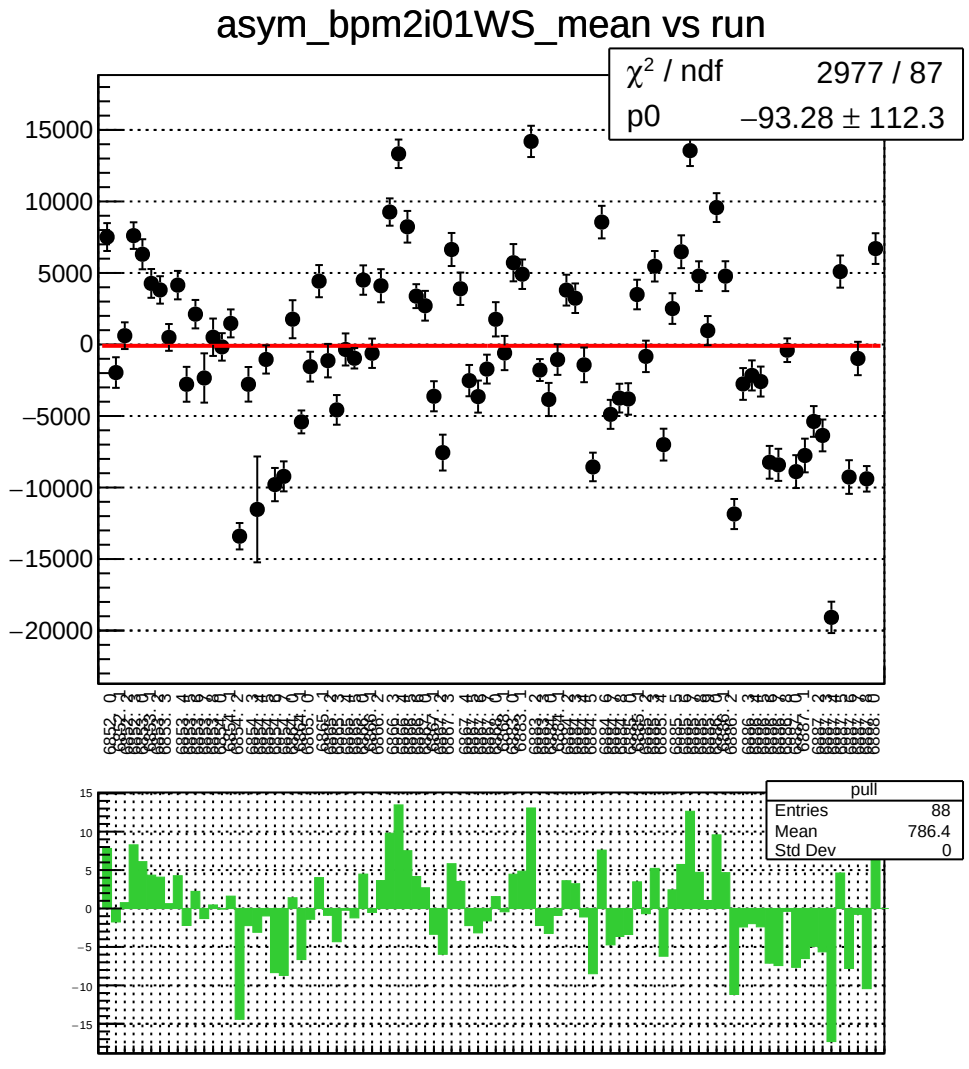

pull1D
Entries 88
Mean 0.09856
Std Dev 0.8378
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

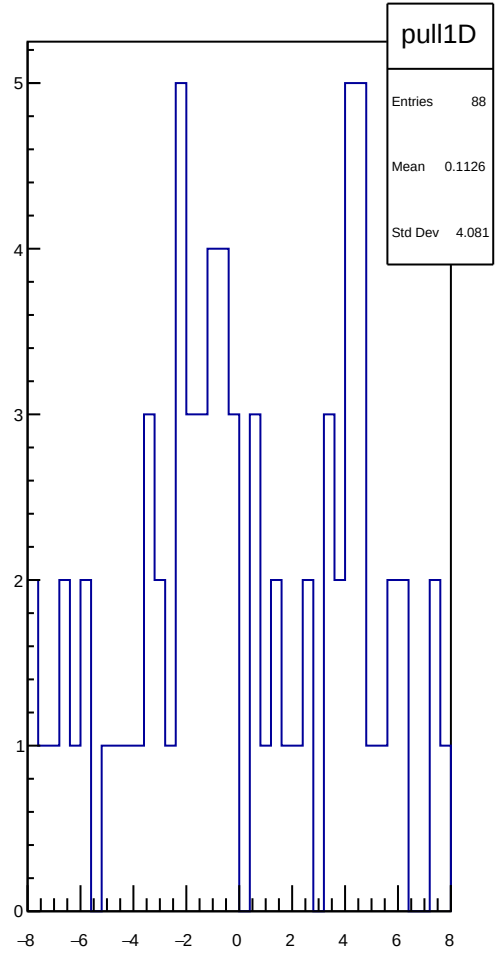

asym_bpm0i07WS_rms vs run
χ² / ndf 9.21e+04 / 87
p0 405.7 ± 0.3209
650
600
550
500
450
400
350
300
250

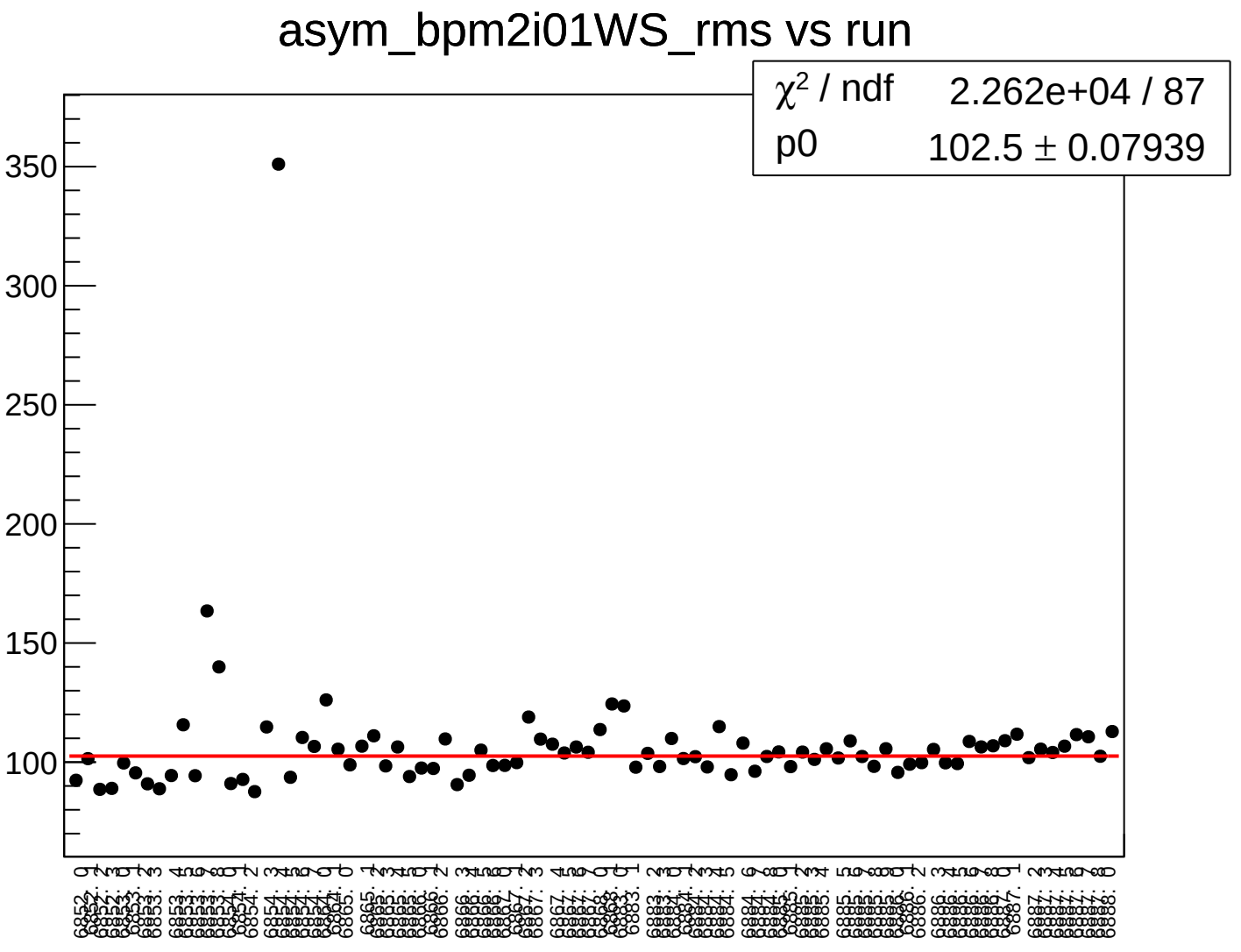

asym_bpm1i02WS_mean vs run
χ² / ndf 2407 / 87
p0 −343.2 ± 128.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 502.3
Std Dev 0
10
5
0
−5
−10

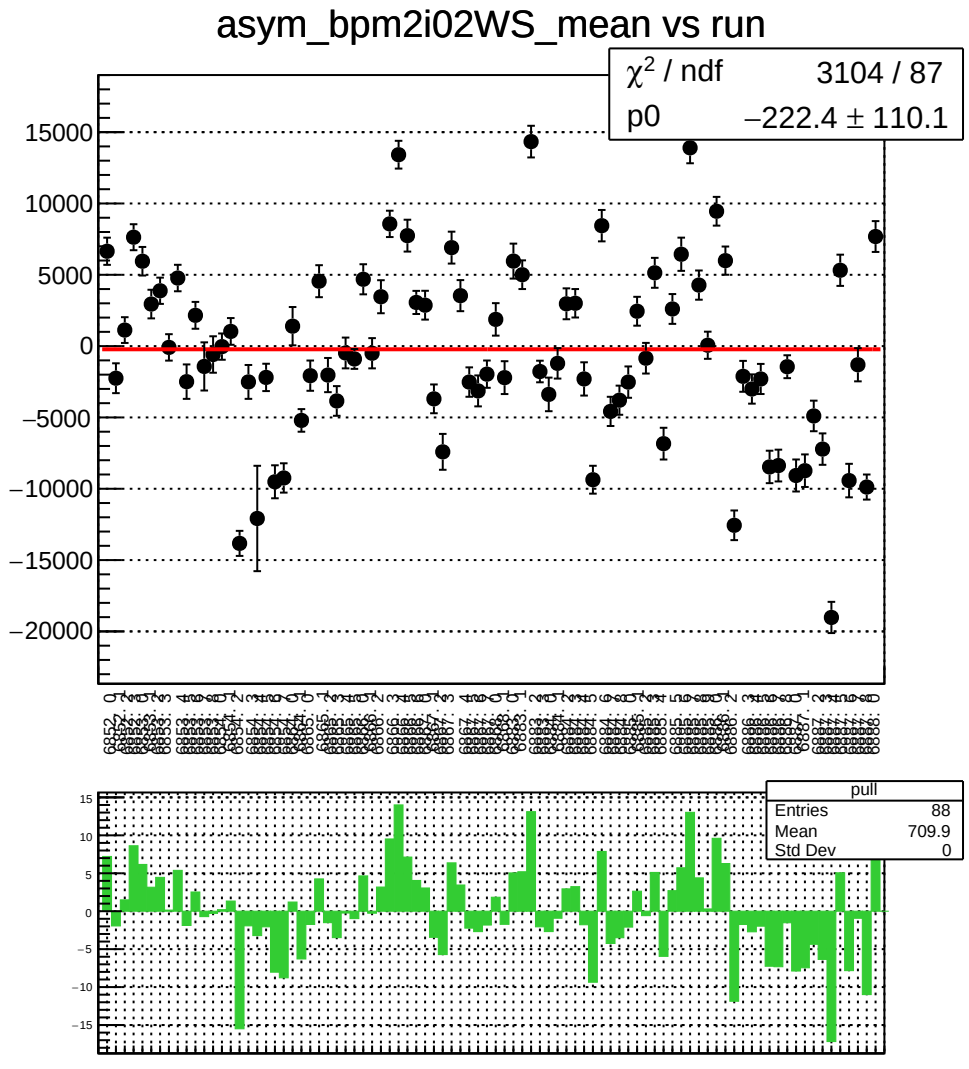

pull1D
Entries 88
Mean 0.03819
Std Dev 3.824
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

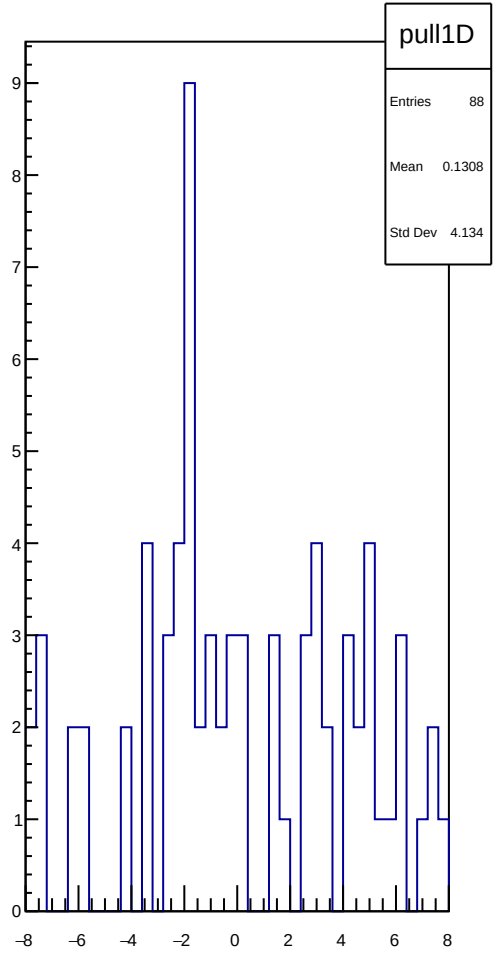

asym_bpm1i02WS_rms vs run
χ^2 / ndf 2.055e+04 / 87
p0 117.1 ± 0.09057
350
300
250
200
150
100

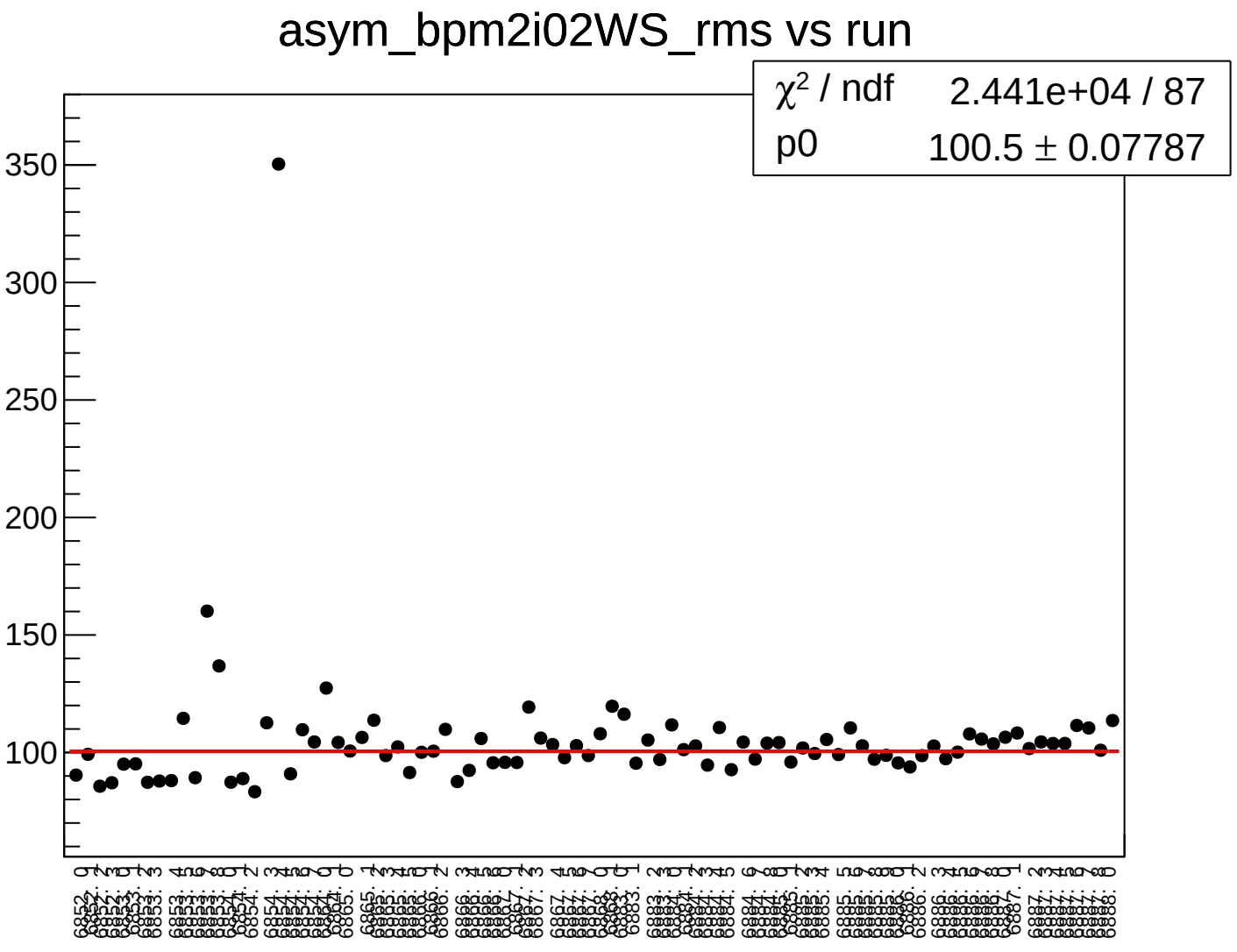

asym_bpm2i01WS_mean vs run
χ² / ndf 2977 / 87
p0 −93.28 ± 112.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 786.4
Std Dev 0

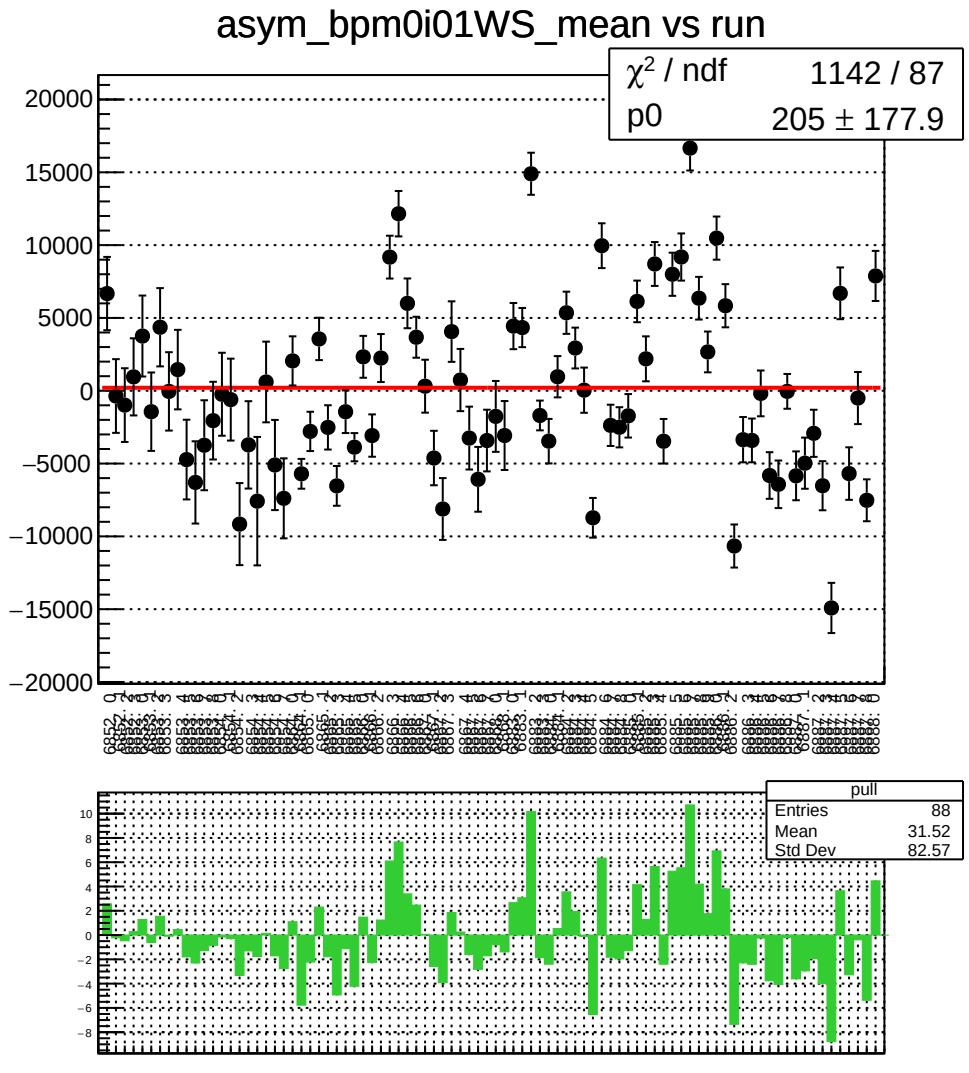

pull1D
Entries 88
Mean 0.1126
Std Dev 4.081
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

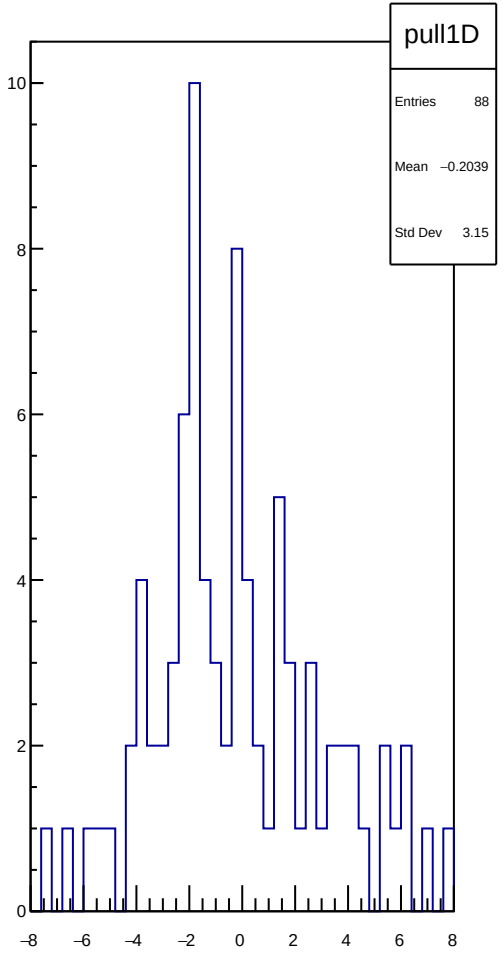

asym_bpm2i01WS_rms vs run
χ² / ndf 2.262e+04 / 87
p0 102.5 ± 0.07939
350
300
250
200
150
100

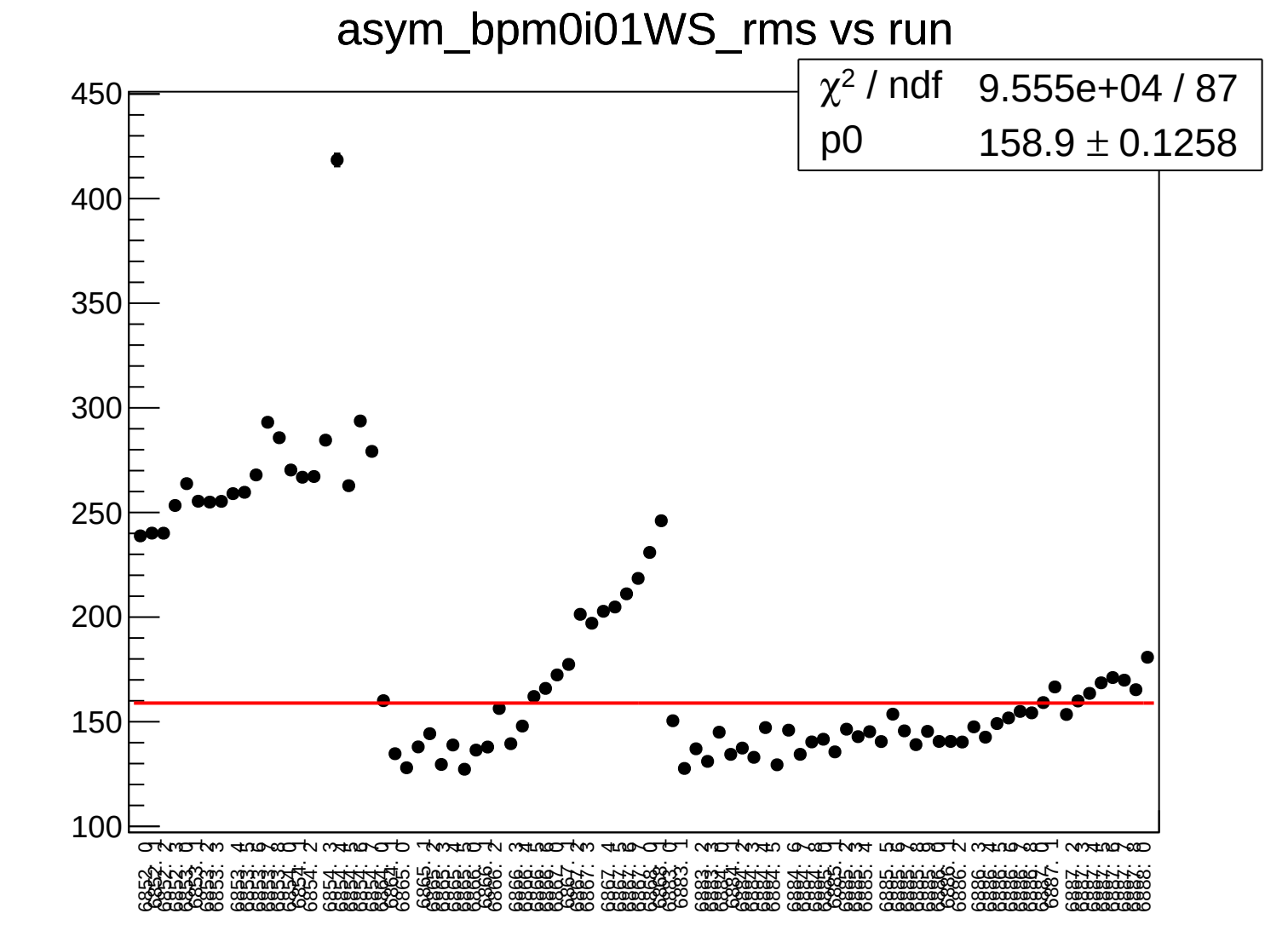

asym_bpm2i02WS_mean vs run
χ² / ndf 3104 / 87
p0 −222.4 ± 110.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 709.9
Std Dev 0
15
10
5
0
−5
−10
−15

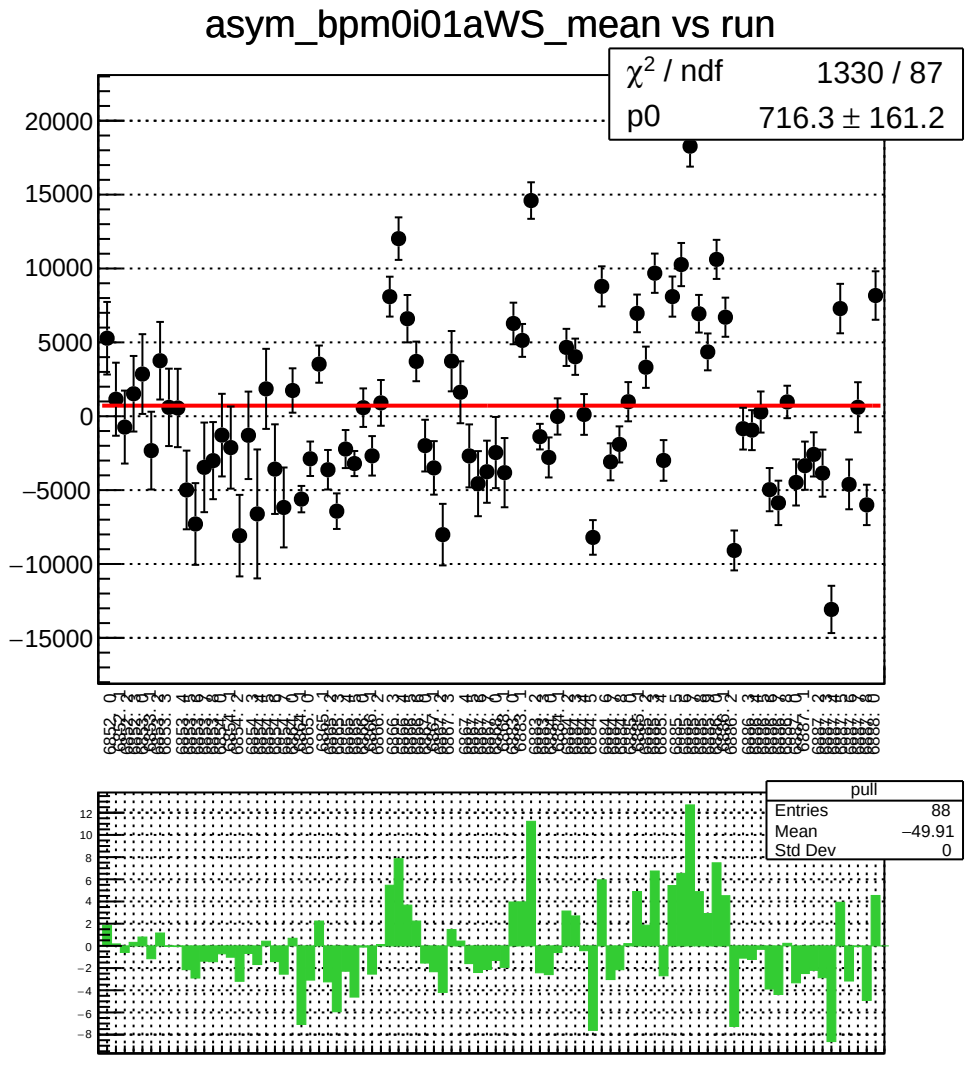

pull1D
Entries 88
Mean 0.1308
Std Dev 4.134
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

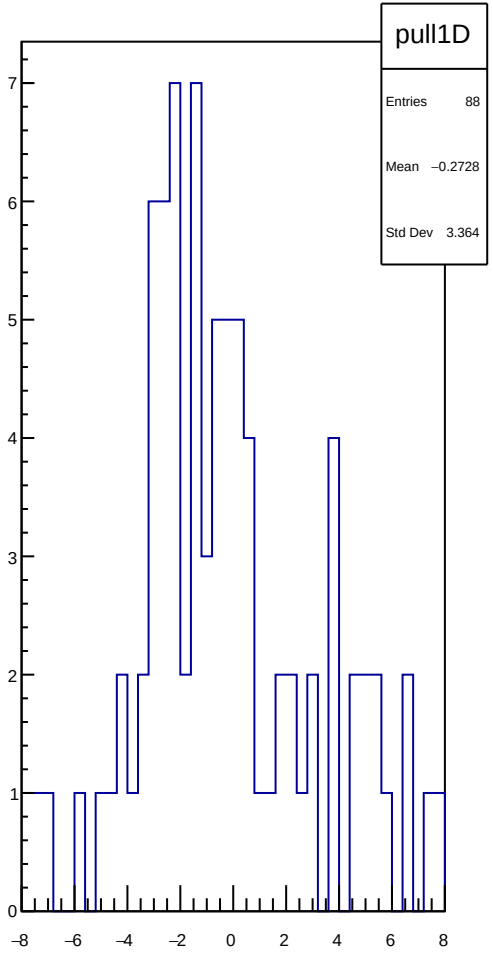

asym_bpm2i02WS_rms vs run
χ² / ndf 2.441e+04 / 87
p0 100.5 ± 0.07787
350
300
250
200
150
100

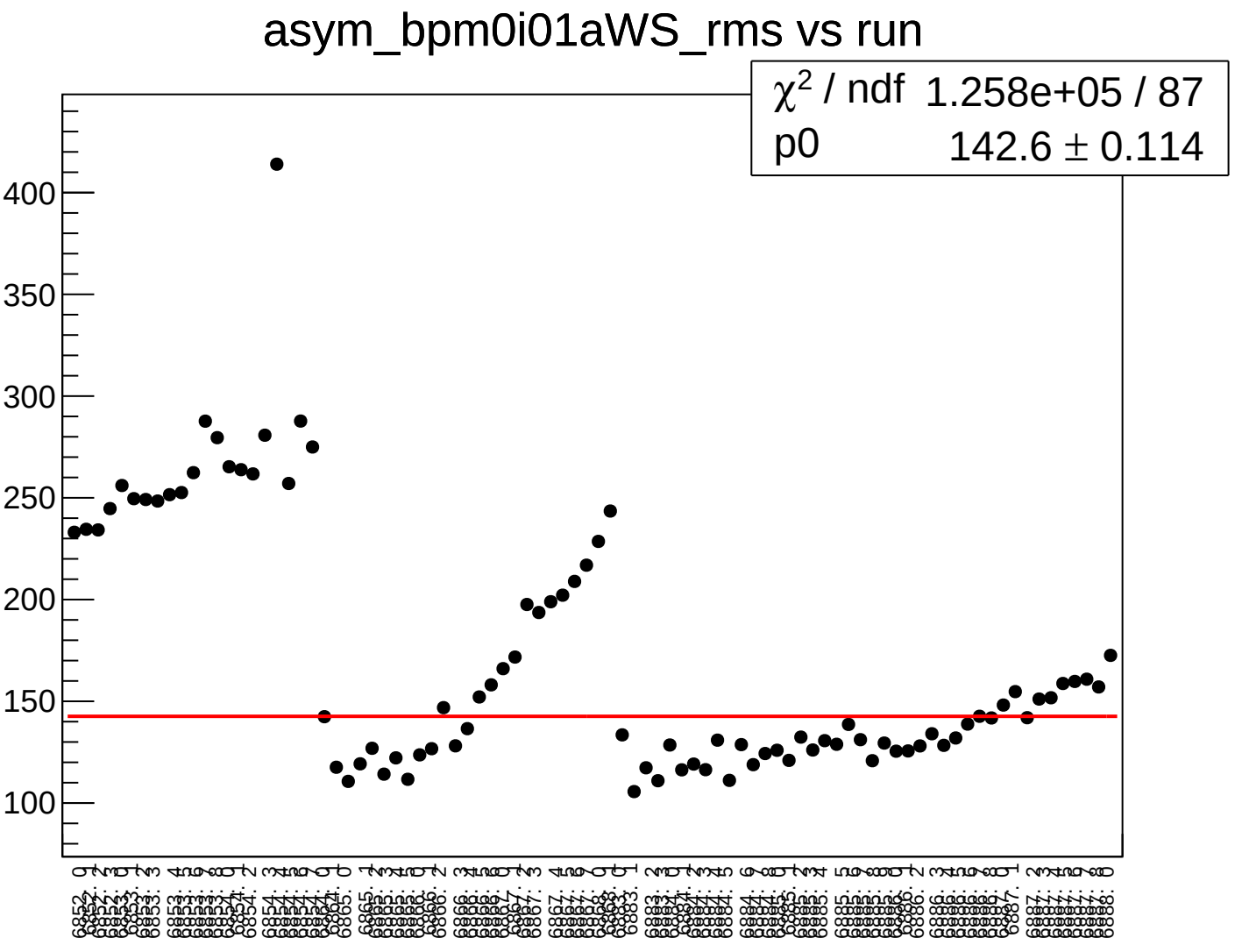

asym_bpm0i01WS_mean vs run
χ² / ndf 1142 / 87
p0 205 ± 177.9
pull
Entries 88
Mean 31.52
Std Dev 82.57

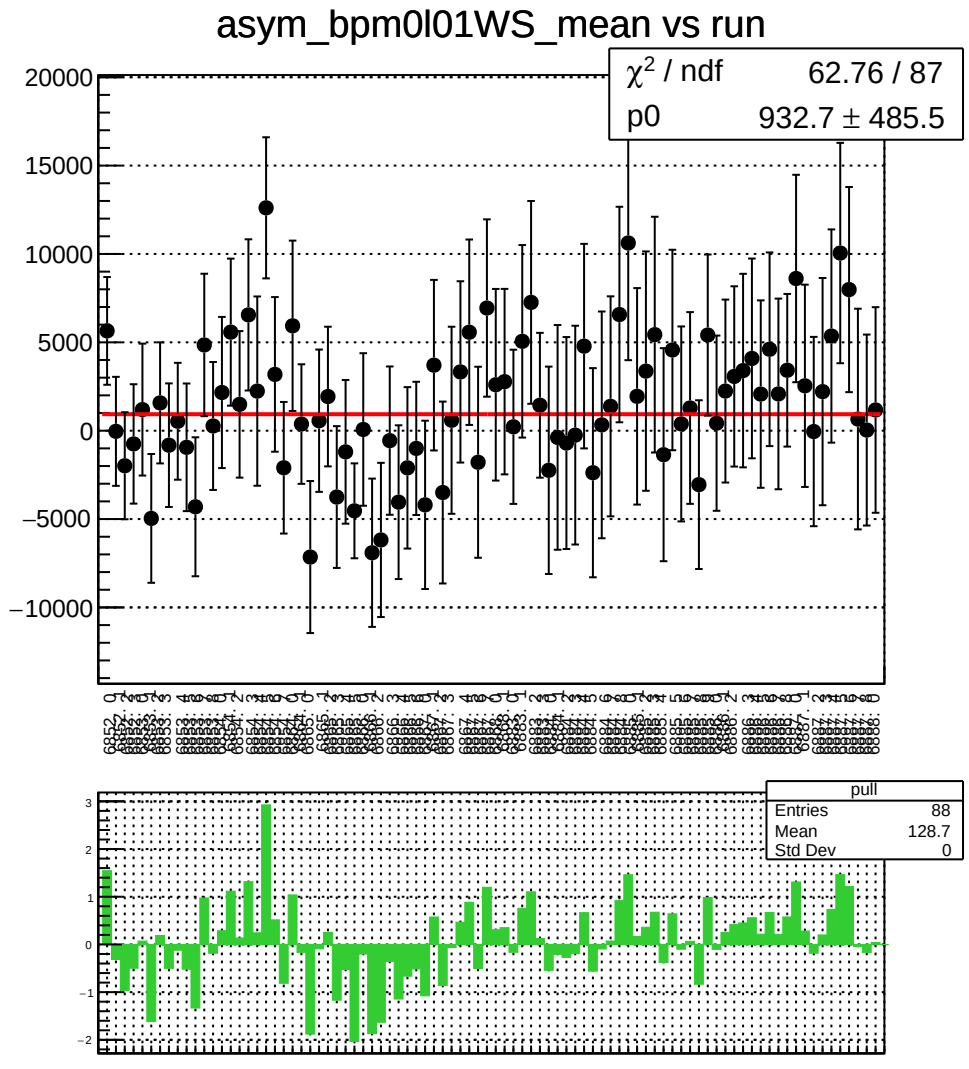

pull1D
Entries 88
Mean −0.2039
Std Dev 3.15

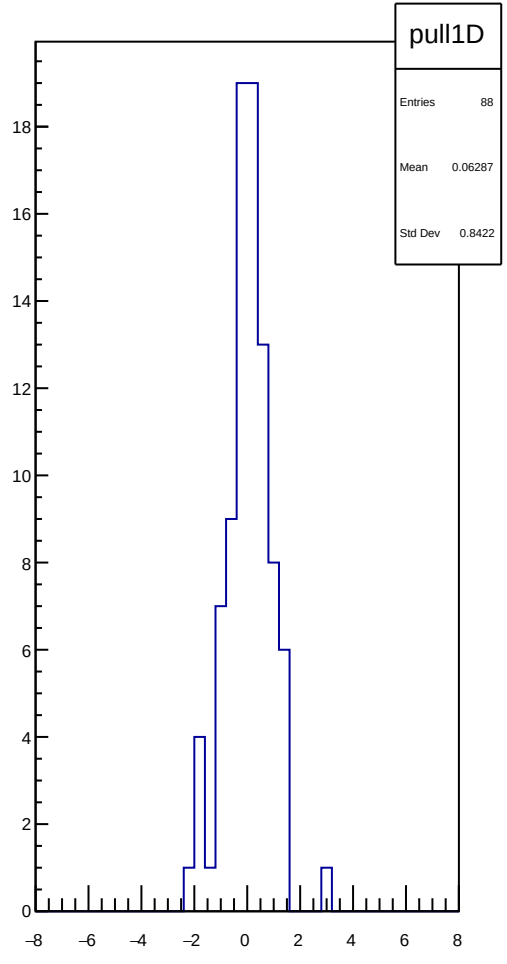

asym_bpm0i01WS_rms vs run
χ^2 / ndf 9.555e+04 / 87
p0 158.9 ± 0.1258
450
400
350
300
250
200
150
100

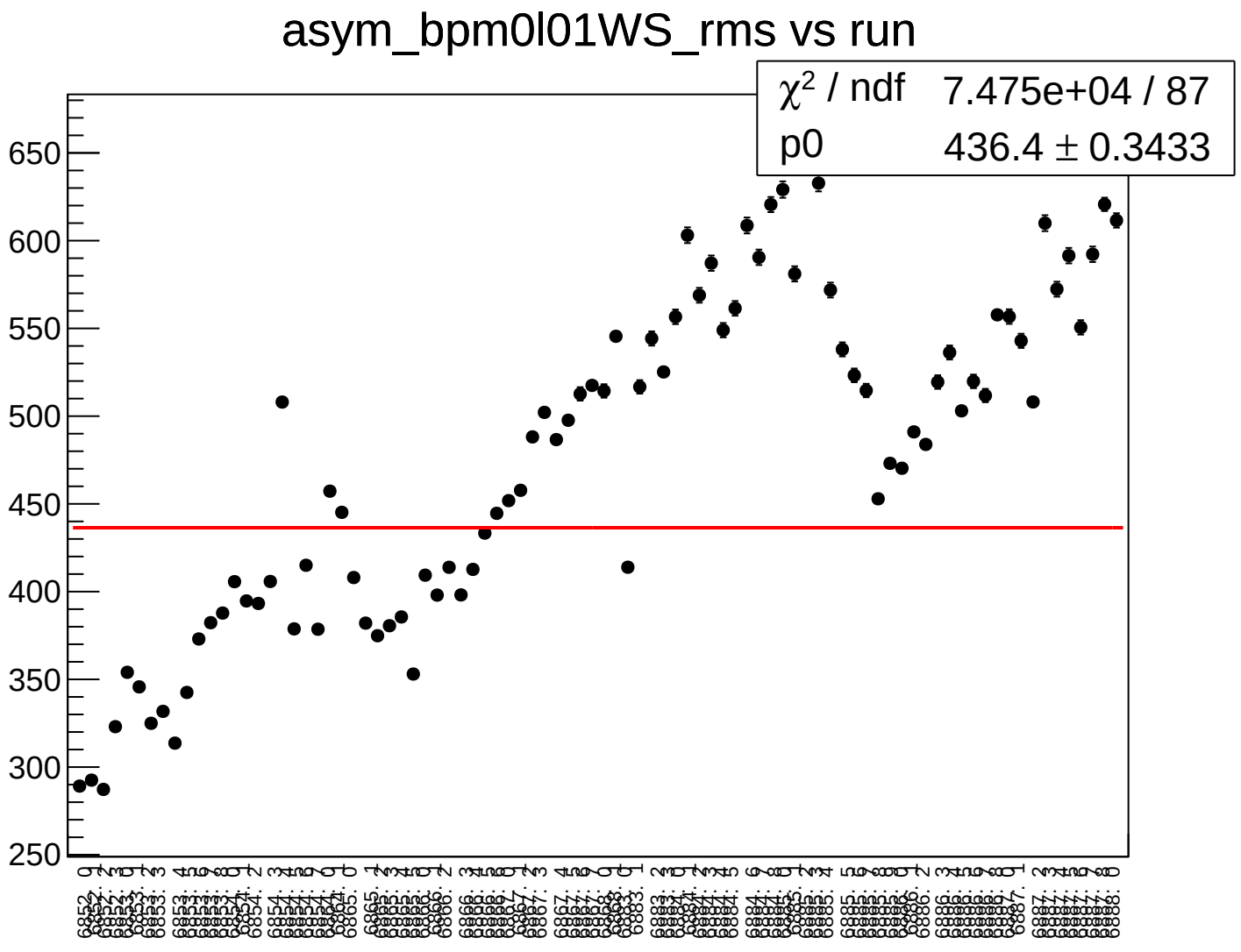

asym_bpm0i01aWS_mean vs run
χ² / ndf 1330 / 87
p0 716.3 ± 161.2
pull
Entries 88
Mean −49.91
Std Dev 0

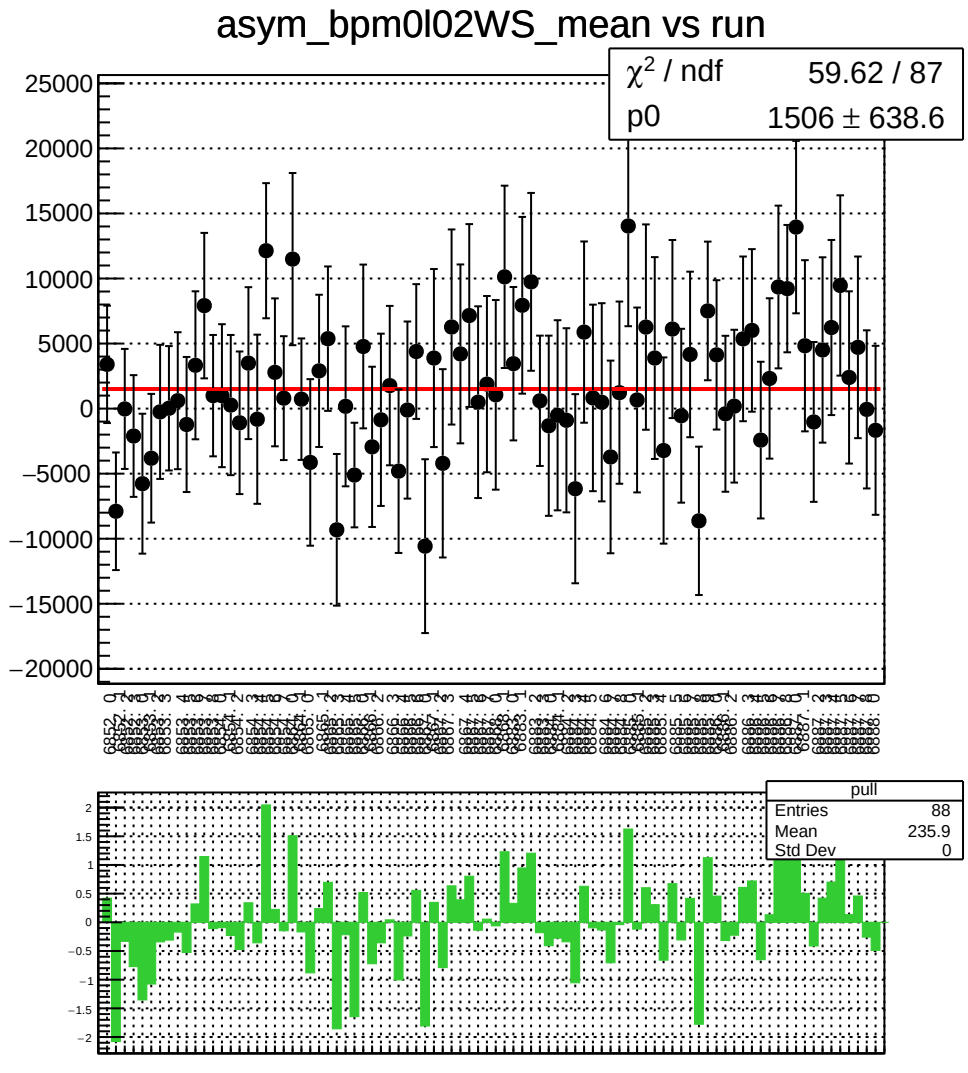

pull1D
Entries 88
Mean −0.2728
Std Dev 3.364

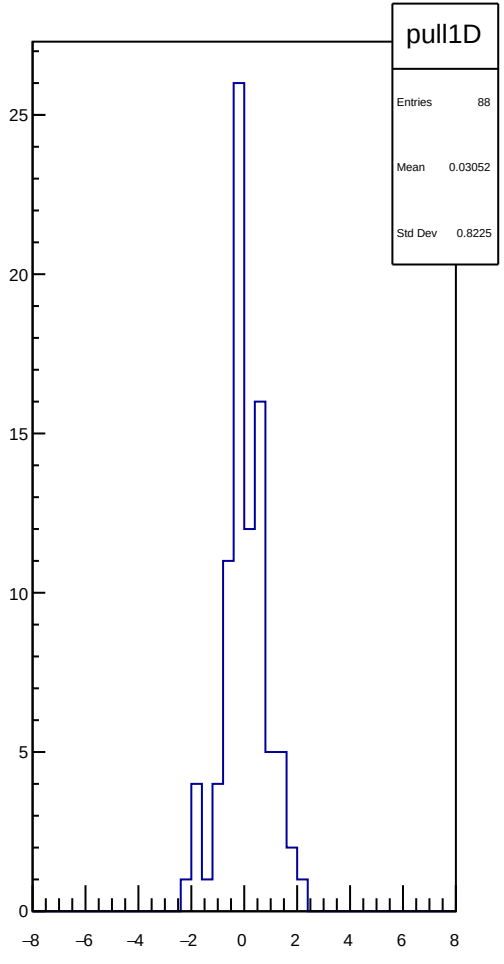

asym_bpm0i01aWS_rms vs run
χ² / ndf 1.258e+05 / 87
p0 142.6 ± 0.114
400
350
300
250
200
150
100

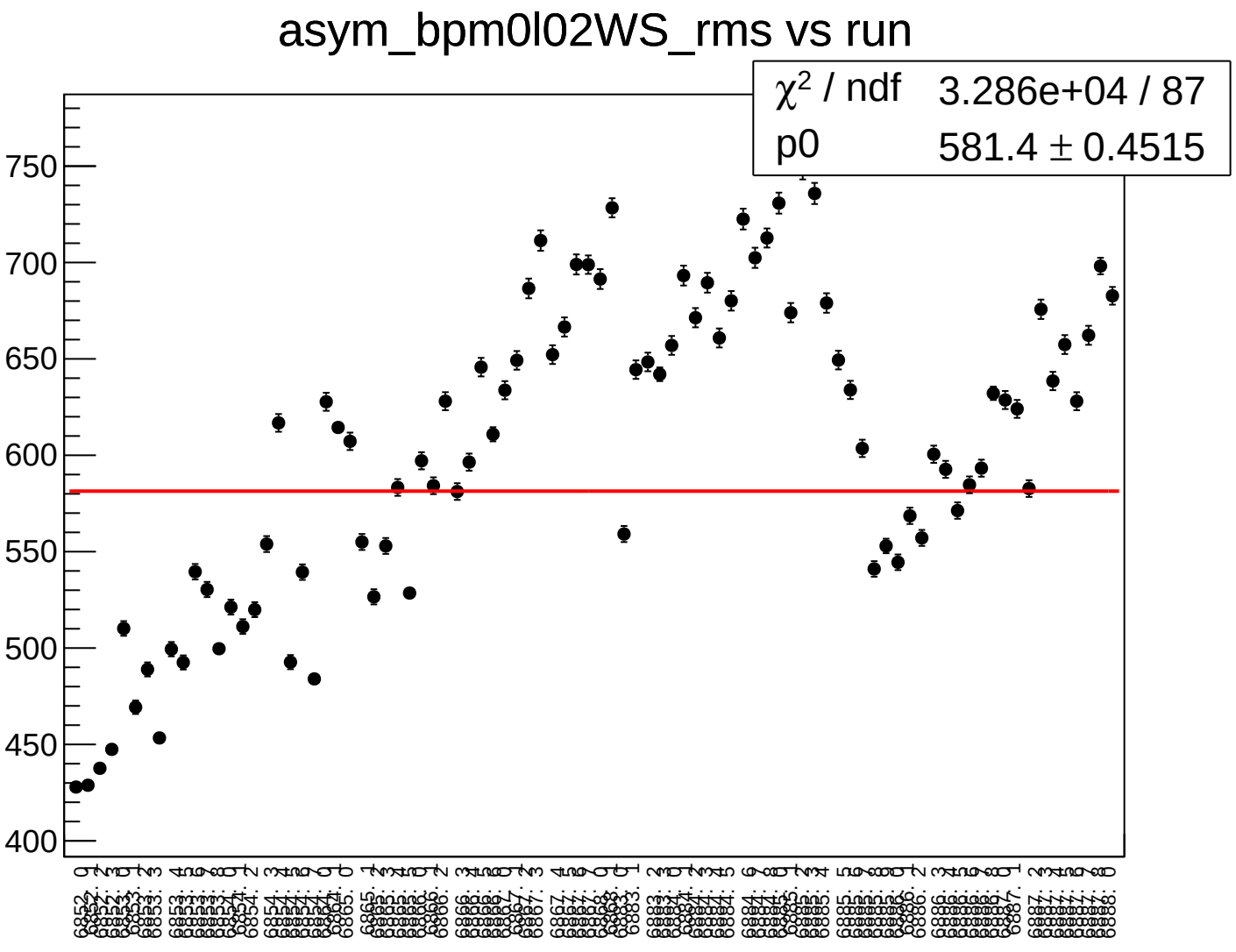

asym_bpm0l01WS_mean vs run
χ² / ndf 62.76 / 87
p0 932.7 ± 485.5
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 128.7
Std Dev 0
3
2
1
0
−1
−2

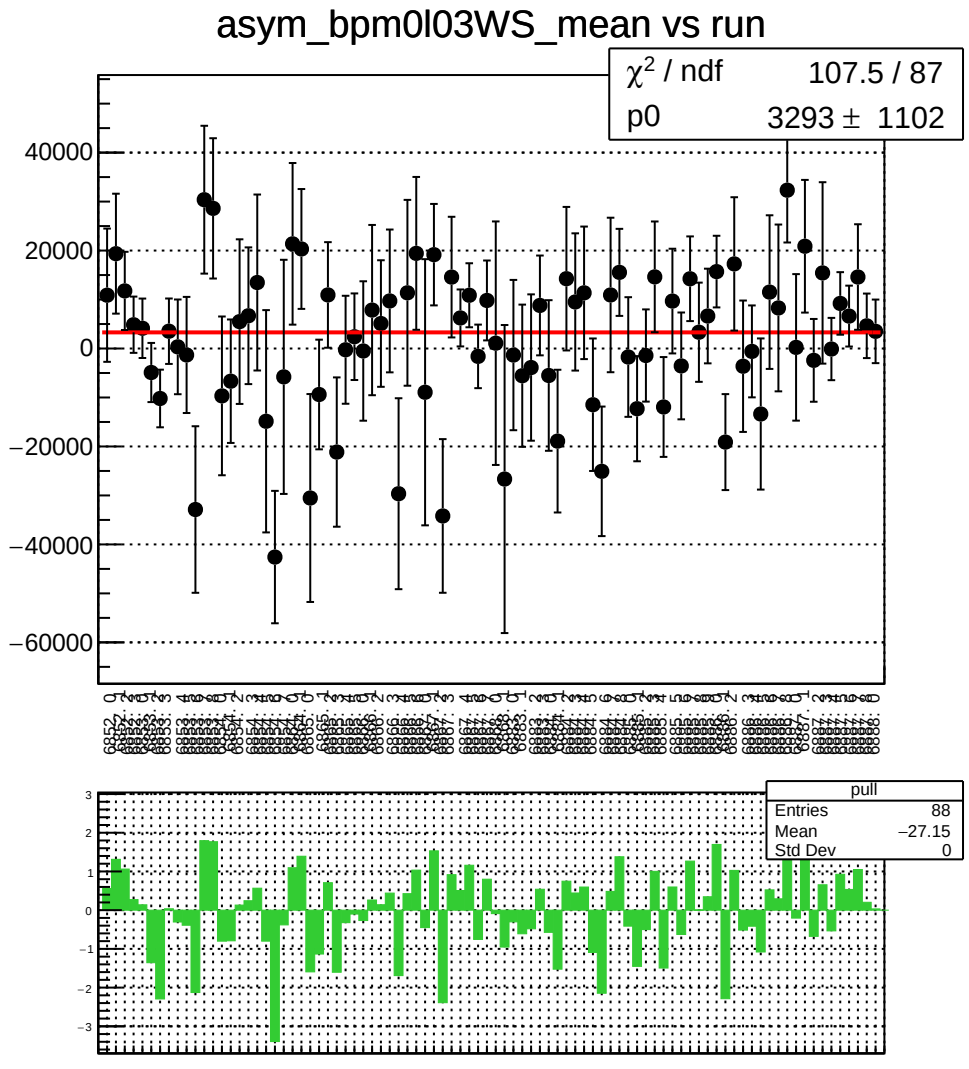

pull1D
Entries 88
Mean 0.06287
Std Dev 0.8422
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

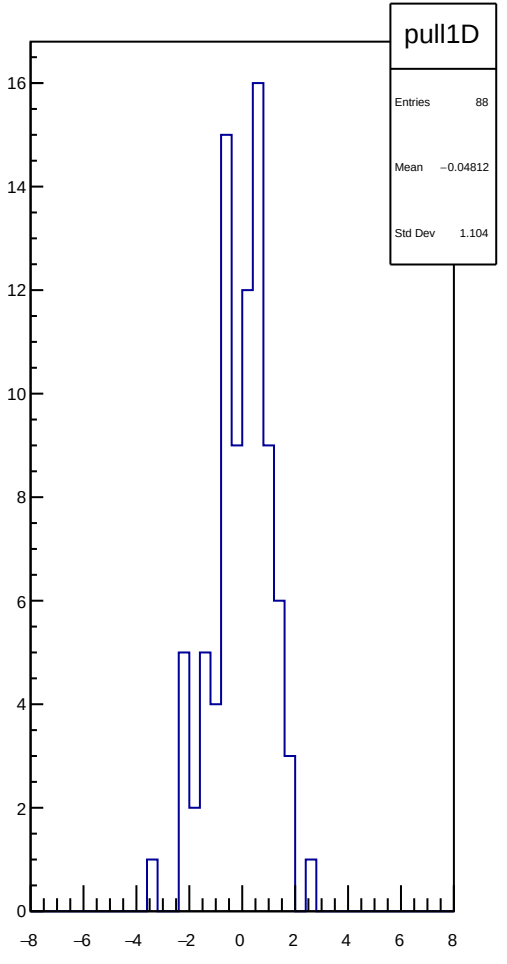

asym_bpm0l01WS_rms vs run
χ² / ndf 7.475e+04 / 87
p0 436.4 ± 0.3433
650
600
550
500
450
400
350
300
250

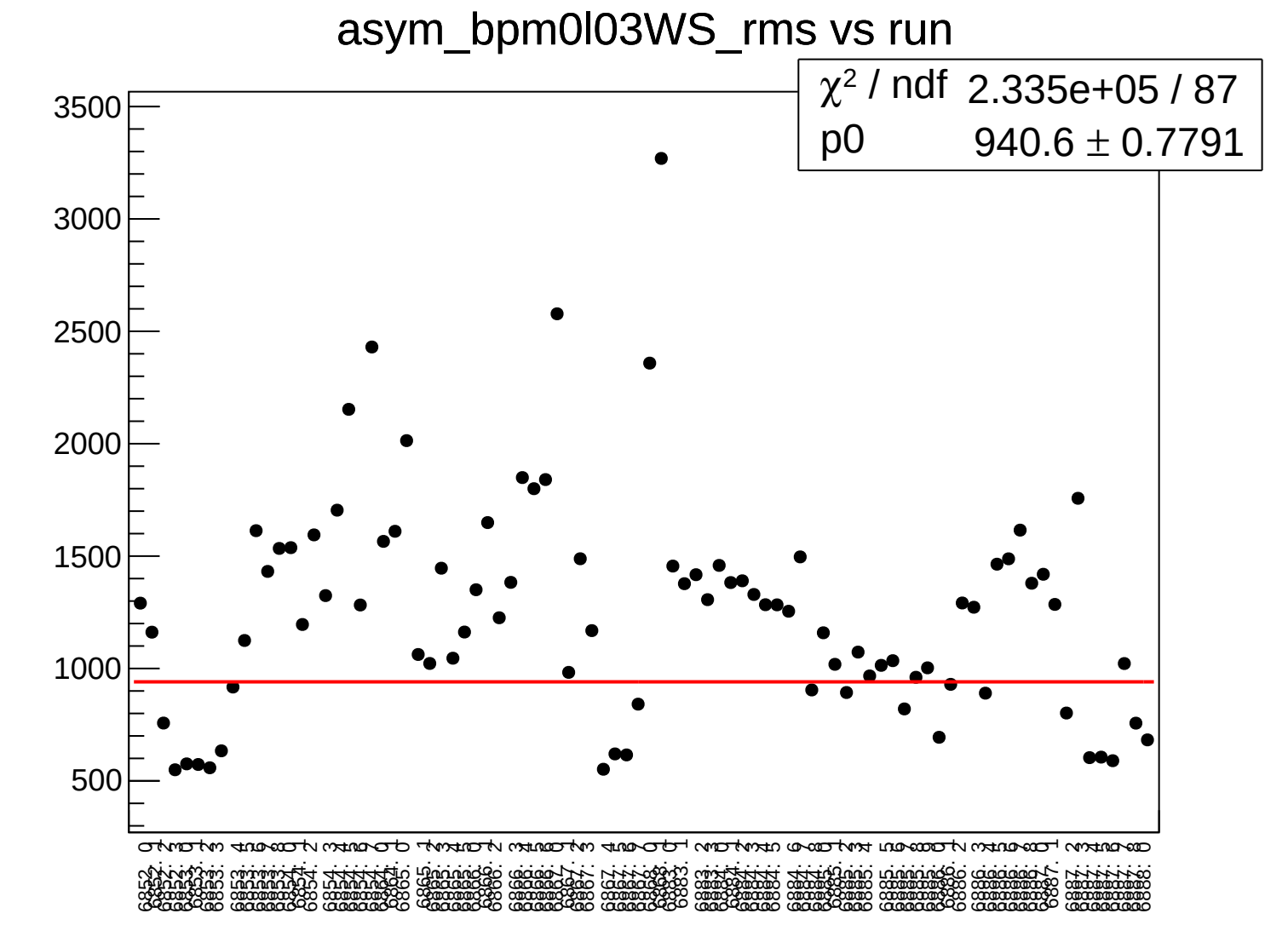

asym_bpm0l02WS_mean vs run
χ² / ndf 59.62 / 87
p0 1506 ± 638.6
pull
Entries 88
Mean 235.9
Std Dev 0

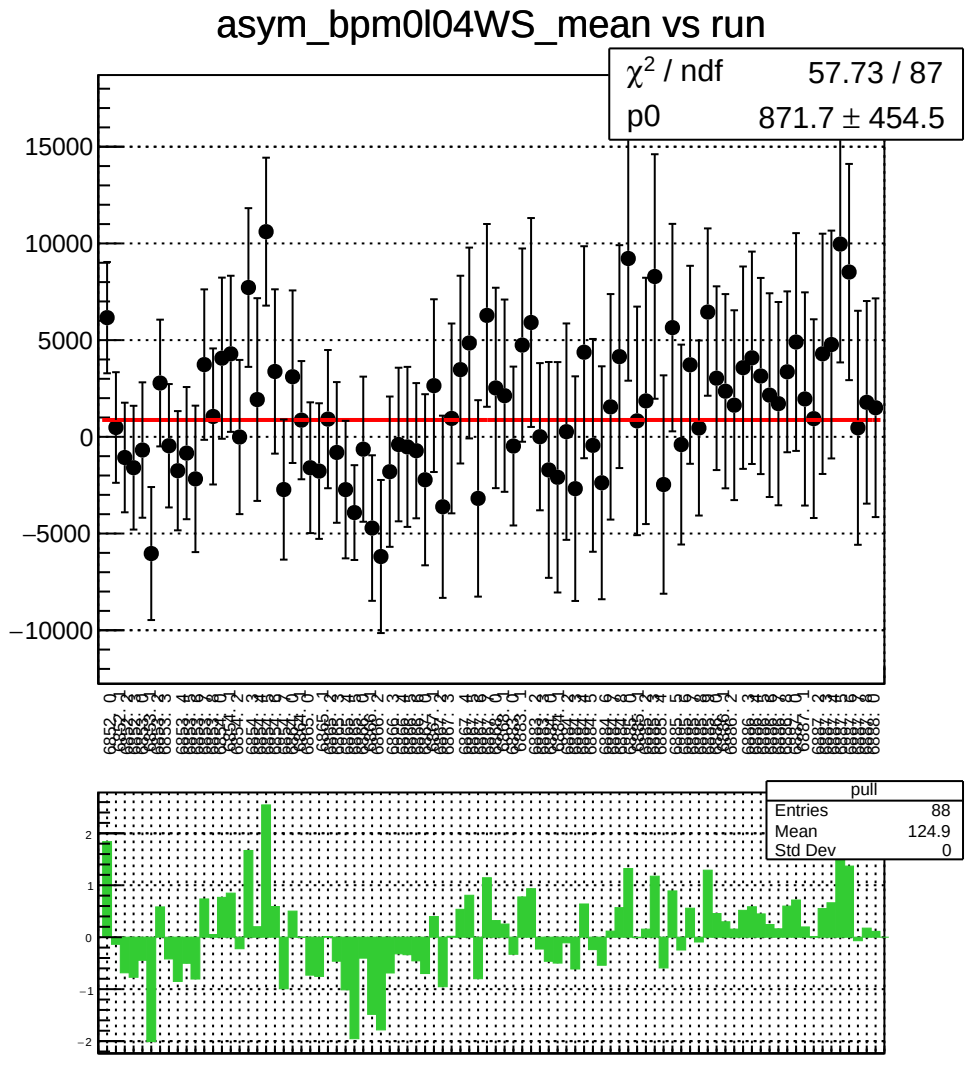

pull1D
Entries 88
Mean 0.03052
Std Dev 0.8225

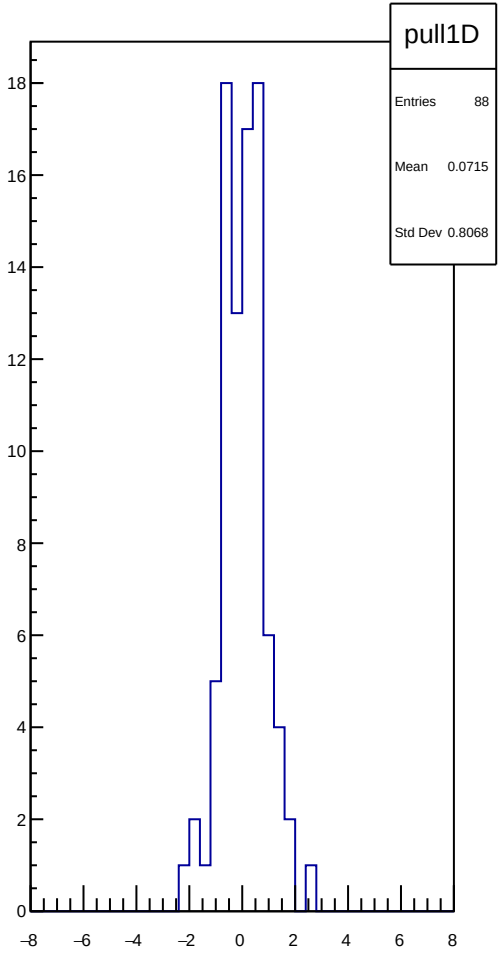

asym_bpm0l02WS_rms vs run
χ² / ndf 3.286e+04 / 87
p0 581.4 ± 0.4515
750
700
650
600
550
500
450
400

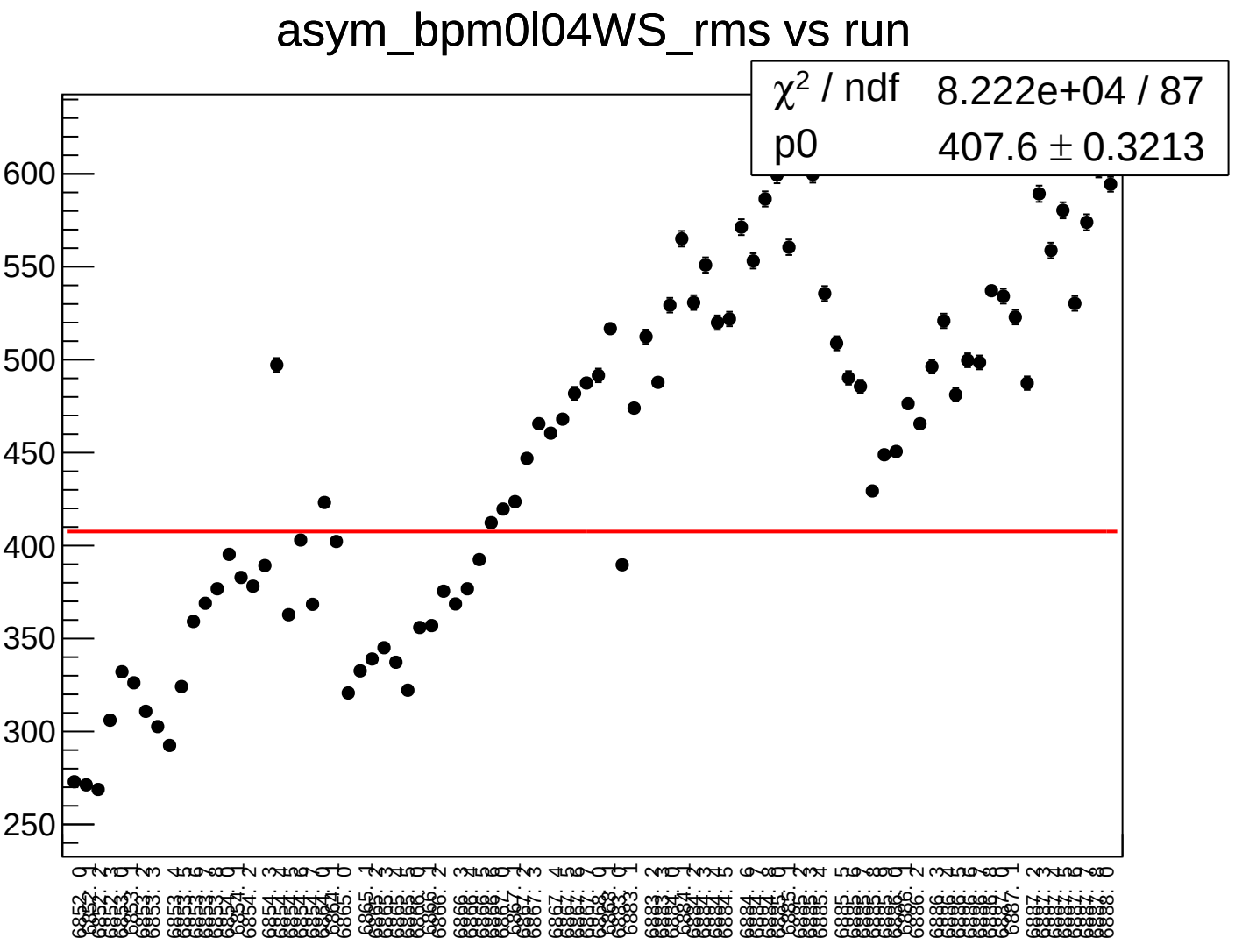

asym_bpm0l03WS_mean vs run
χ² / ndf 107.5 / 87
p0 3293 ± 1102
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean −27.15
Std Dev 0
3
2
1
0
−1
−2
−3

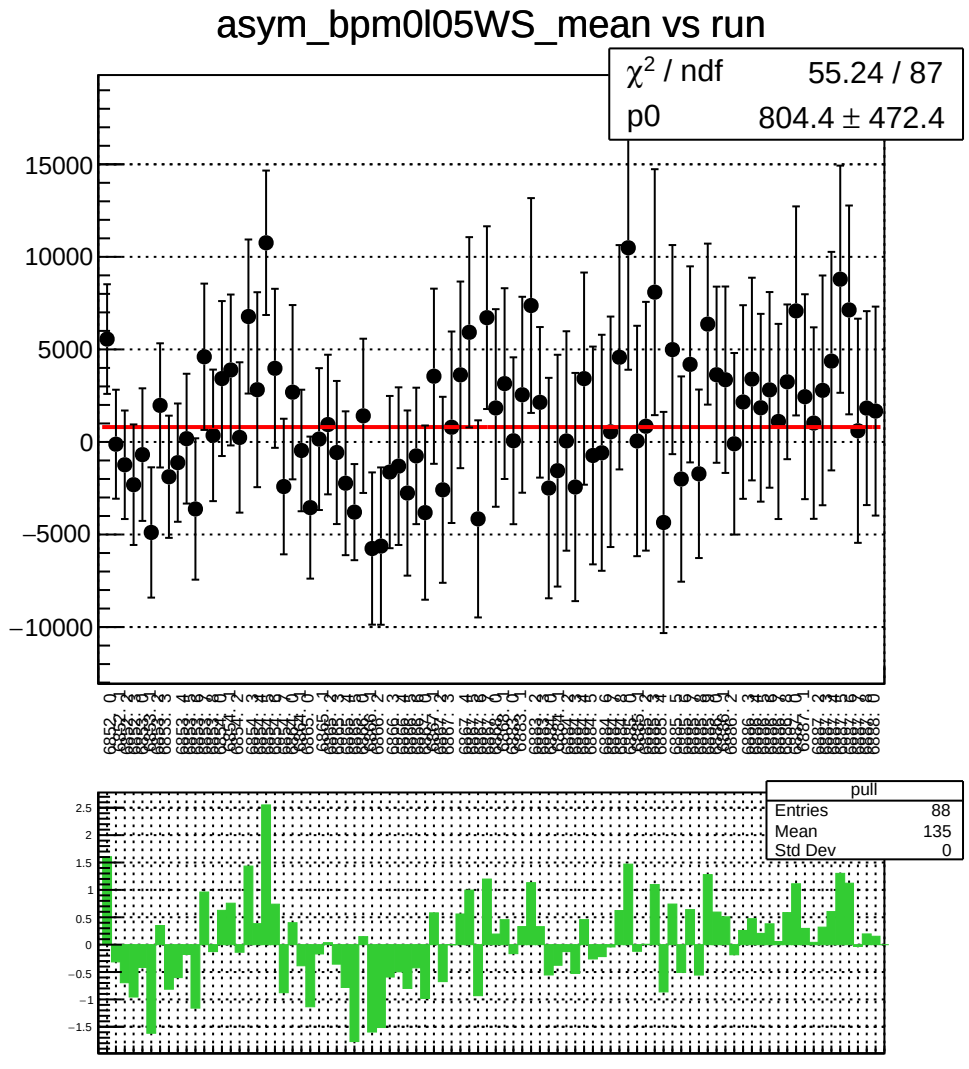

pull1D
Entries 88
Mean −0.04812
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

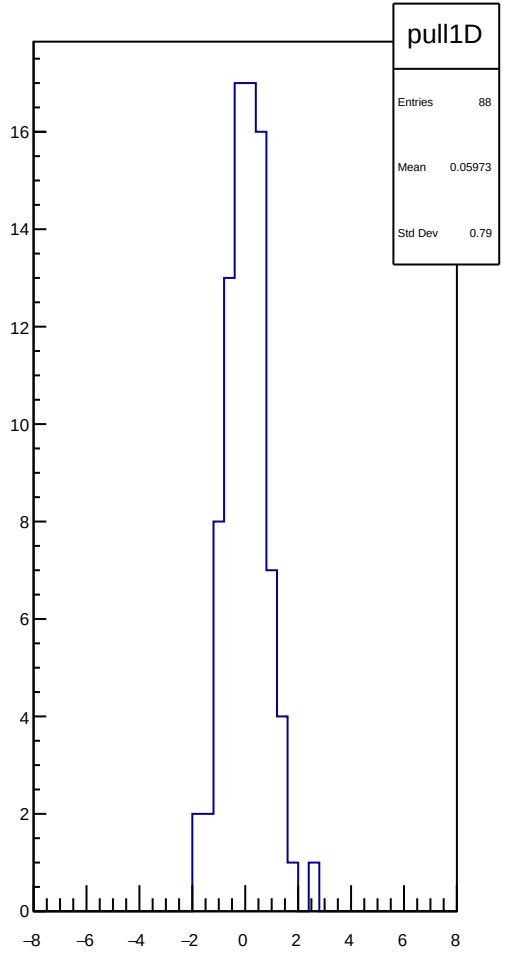

asym_bpm0l03WS_rms vs run
χ² / ndf 2.335e+05 / 87
p0 940.6 ± 0.7791
3500
3000
2500
2000
1500
1000
500

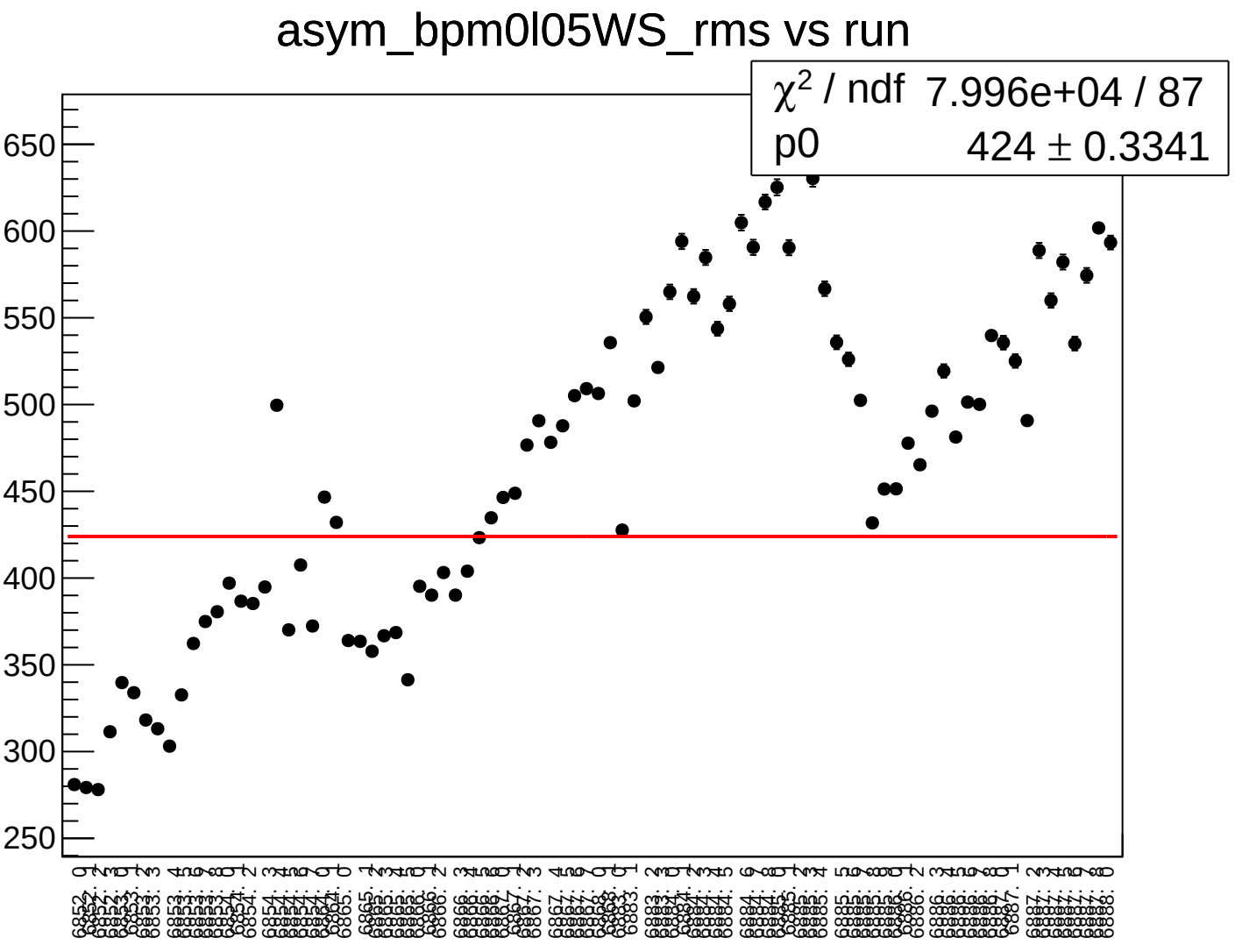

asym_bpm0l04WS_mean vs run
χ² / ndf 57.73 / 87
p0 871.7 ± 454.5
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 124.9
Std Dev 0
2
1
0
−1
−2

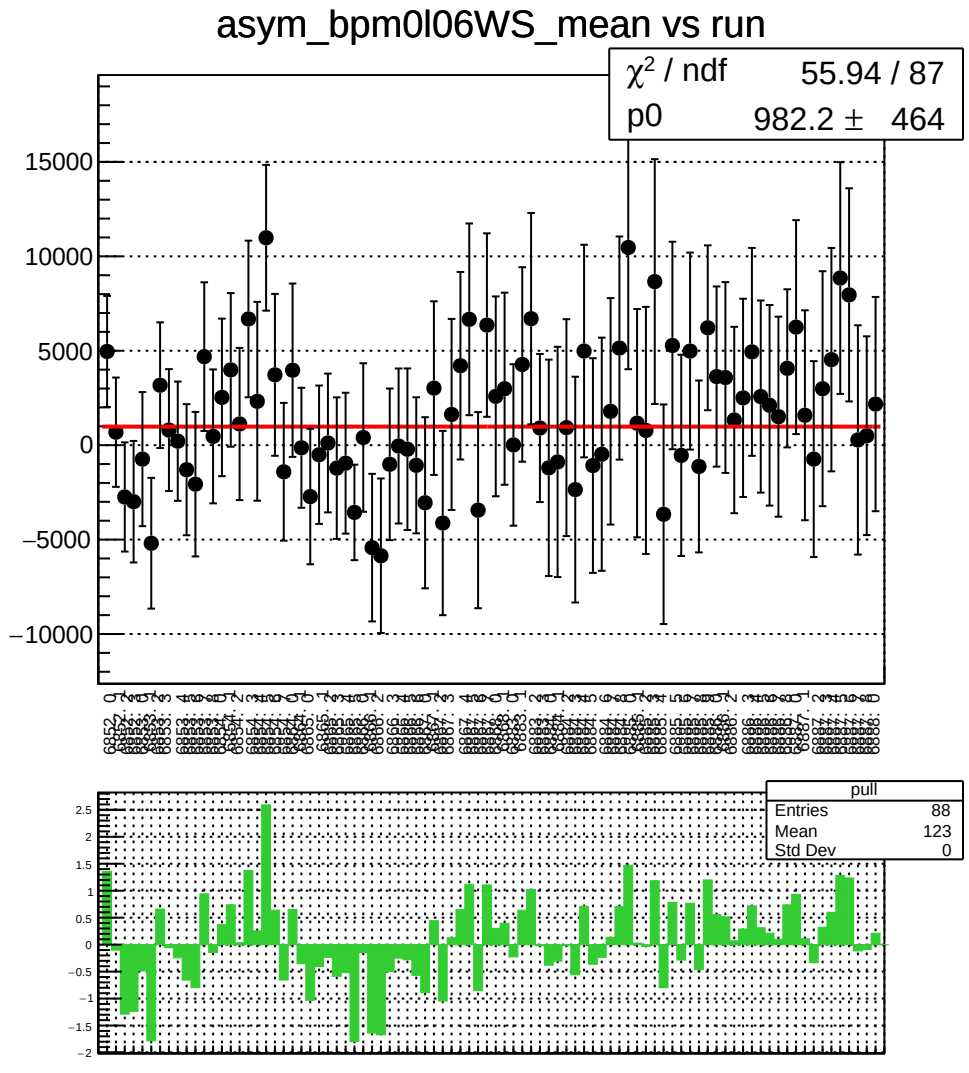

pull1D
Entries 88
Mean 0.0715
Std Dev 0.8068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

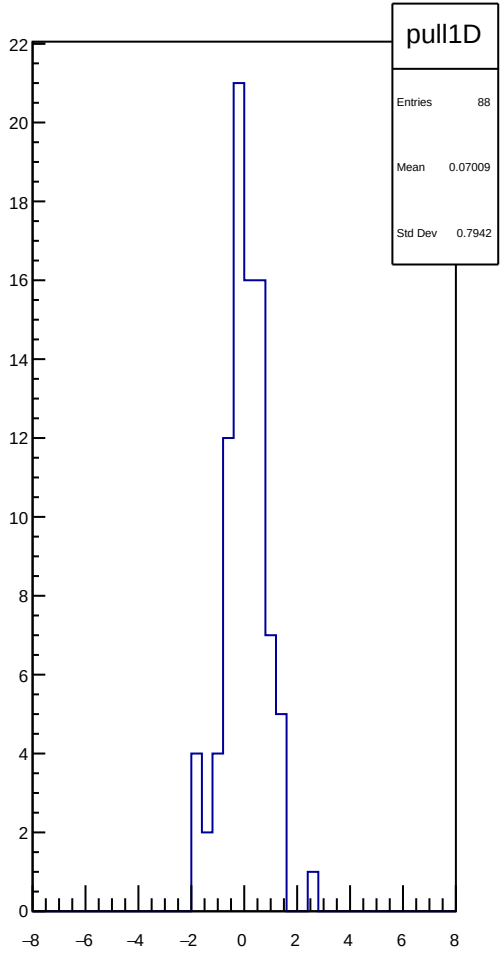

asym_bpm0l04WS_rms vs run
χ² / ndf 8.222e+04 / 87
p0 407.6 ± 0.3213
600
550
500
450
400
350
300
250

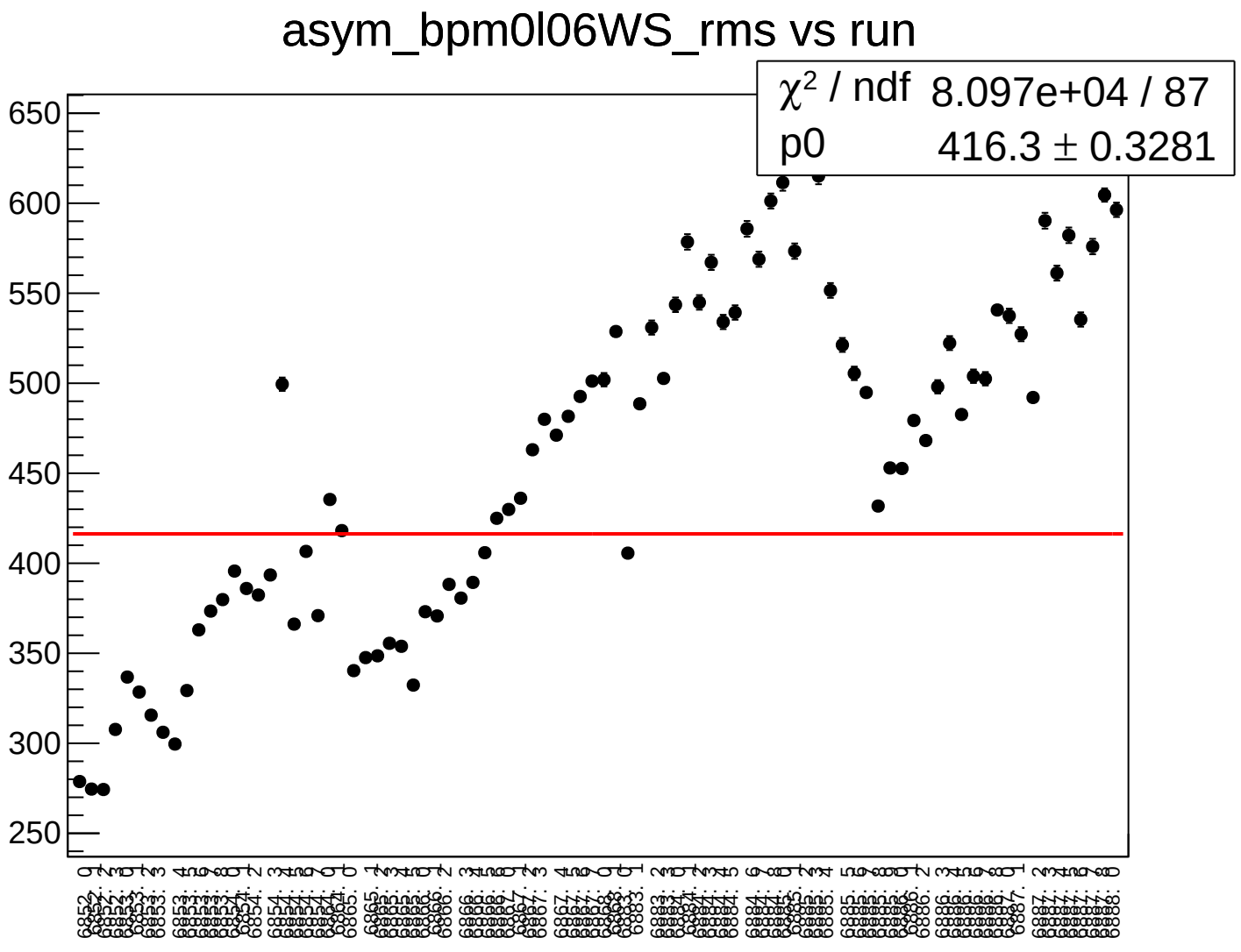

asym_bpm0l05WS_mean vs run
χ² / ndf 55.24 / 87
p0 804.4 ± 472.4
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 135
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

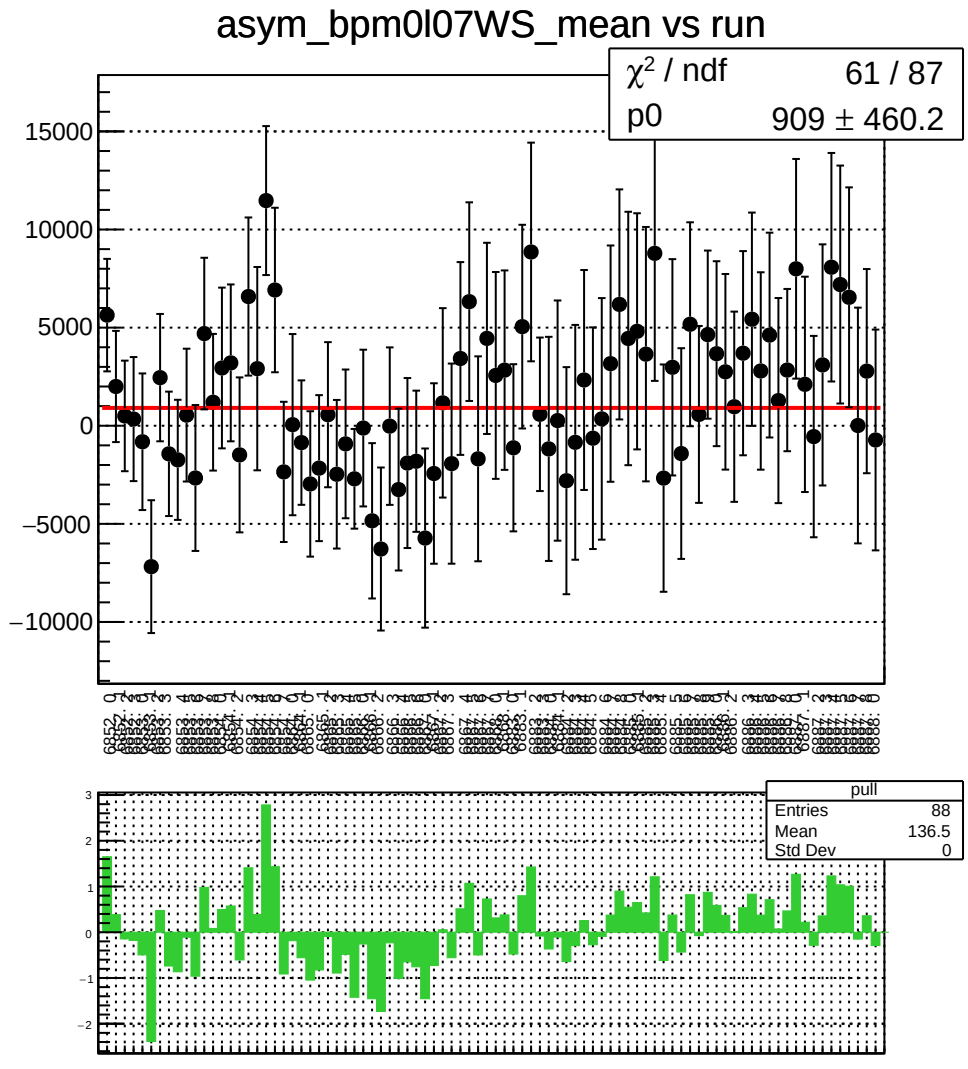

pull1D
Entries 88
Mean 0.05973
Std Dev 0.79
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

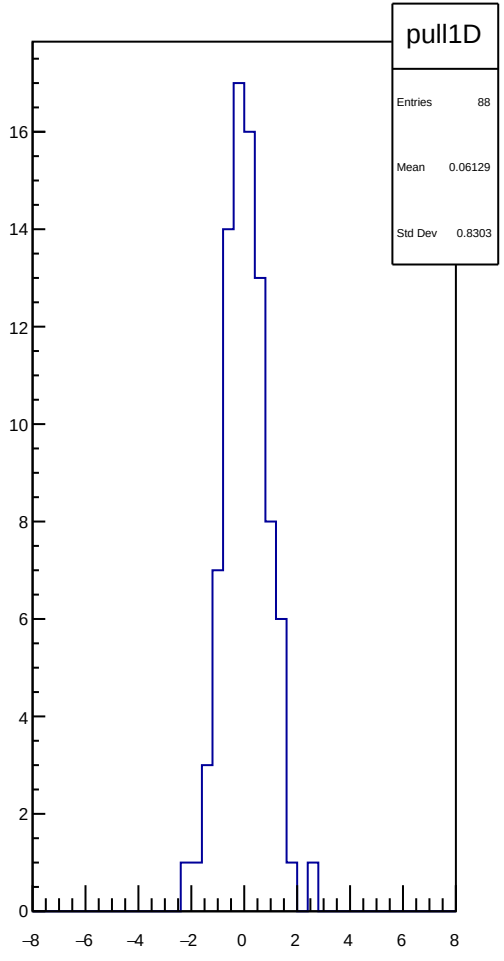

asym_bpm0l05WS_rms vs run
χ² / ndf 7.996e+04 / 87
p0 424 ± 0.3341
650
600
550
500
450
400
350
300
250

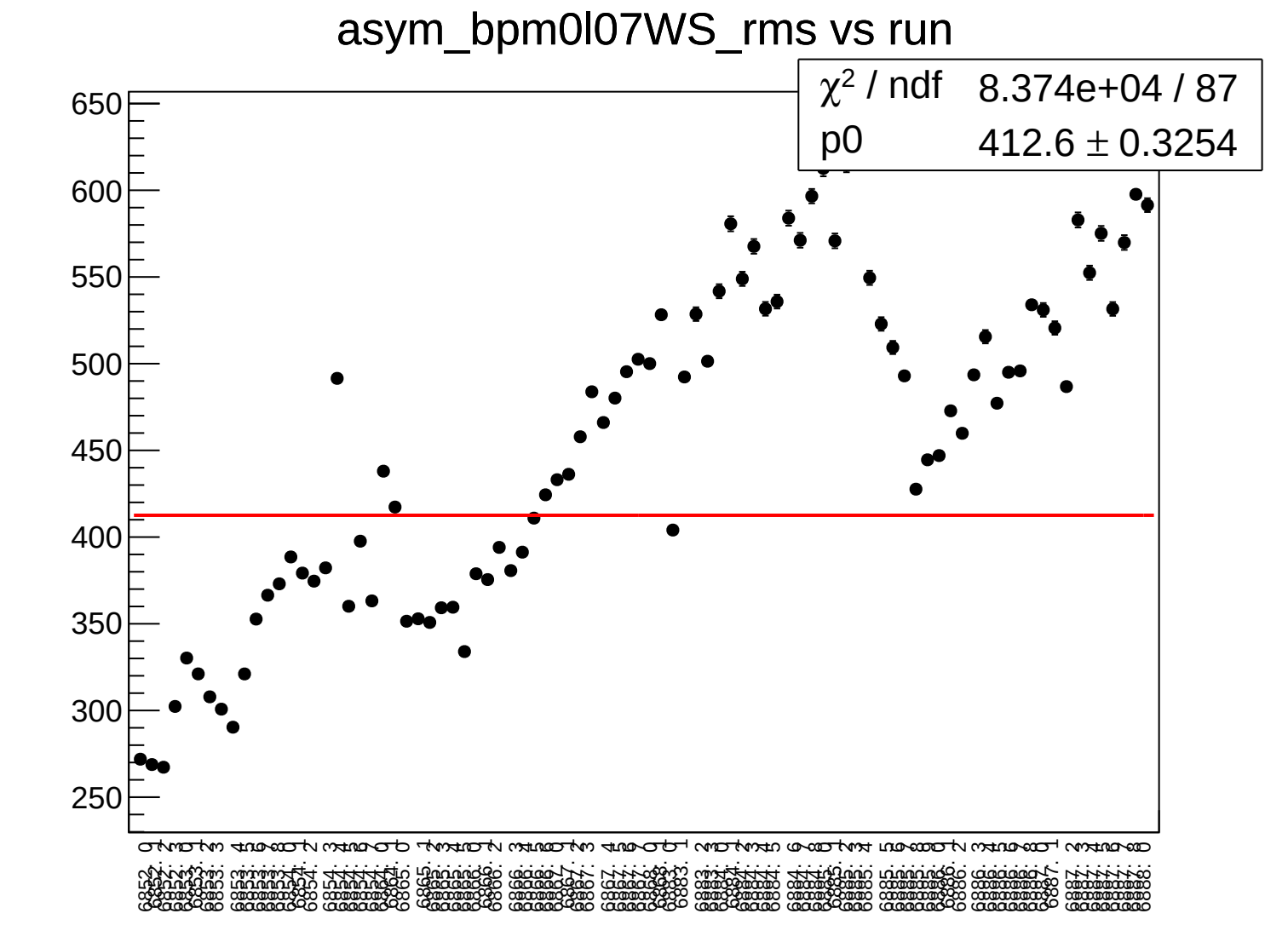

asym_bpm0l06WS_mean vs run
χ² / ndf 55.94 / 87
p0 982.2 ± 464
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 123
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

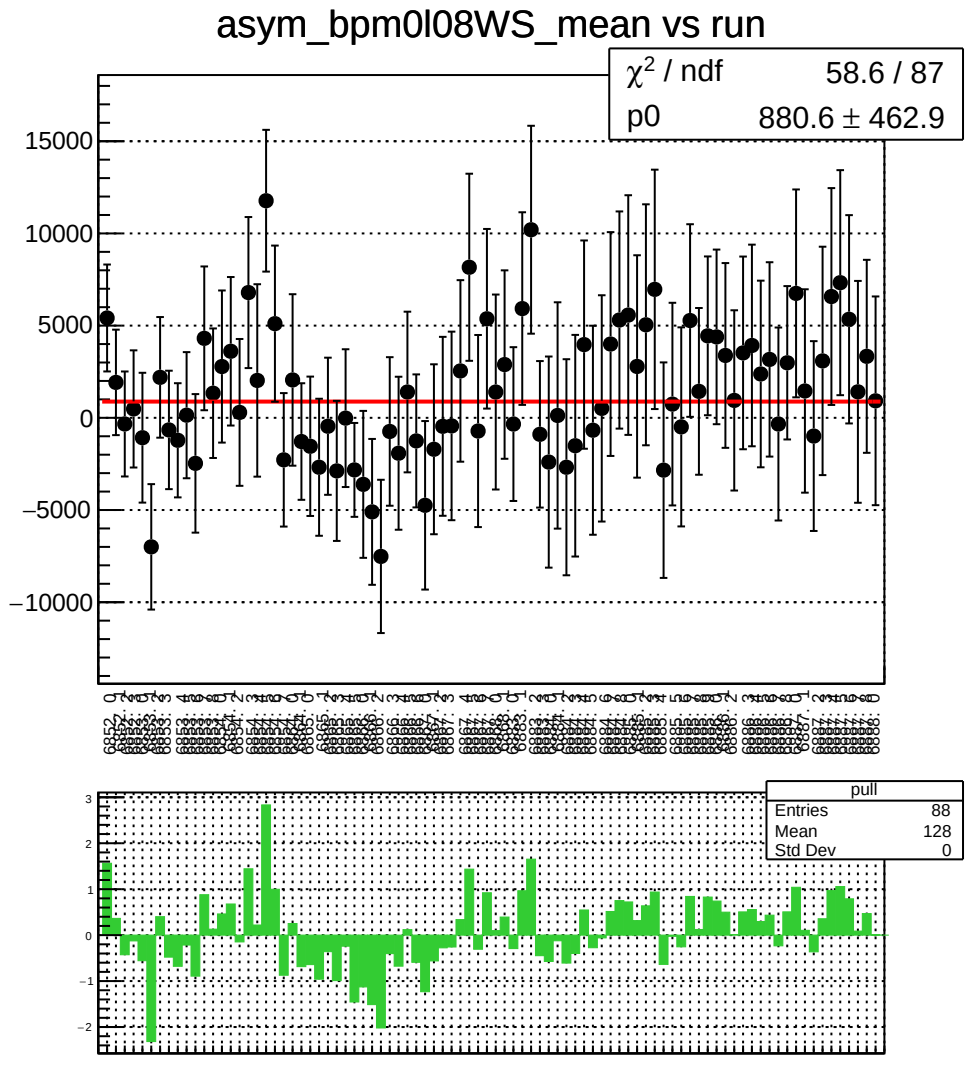

pull1D
Entries 88
Mean 0.07009
Std Dev 0.7942
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

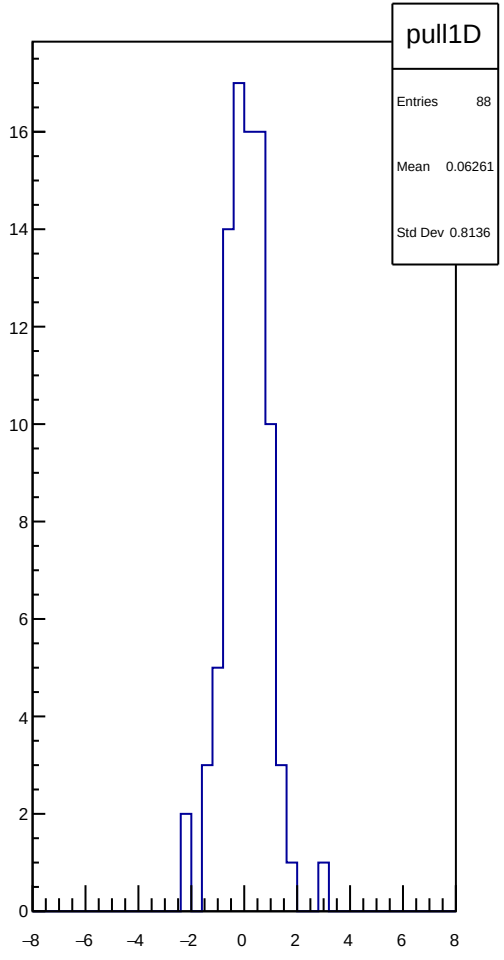

asym_bpm0l06WS_rms vs run
χ² / ndf 8.097e+04 / 87
p0 416.3 ± 0.3281
650
600
550
500
450
400
350
300
250

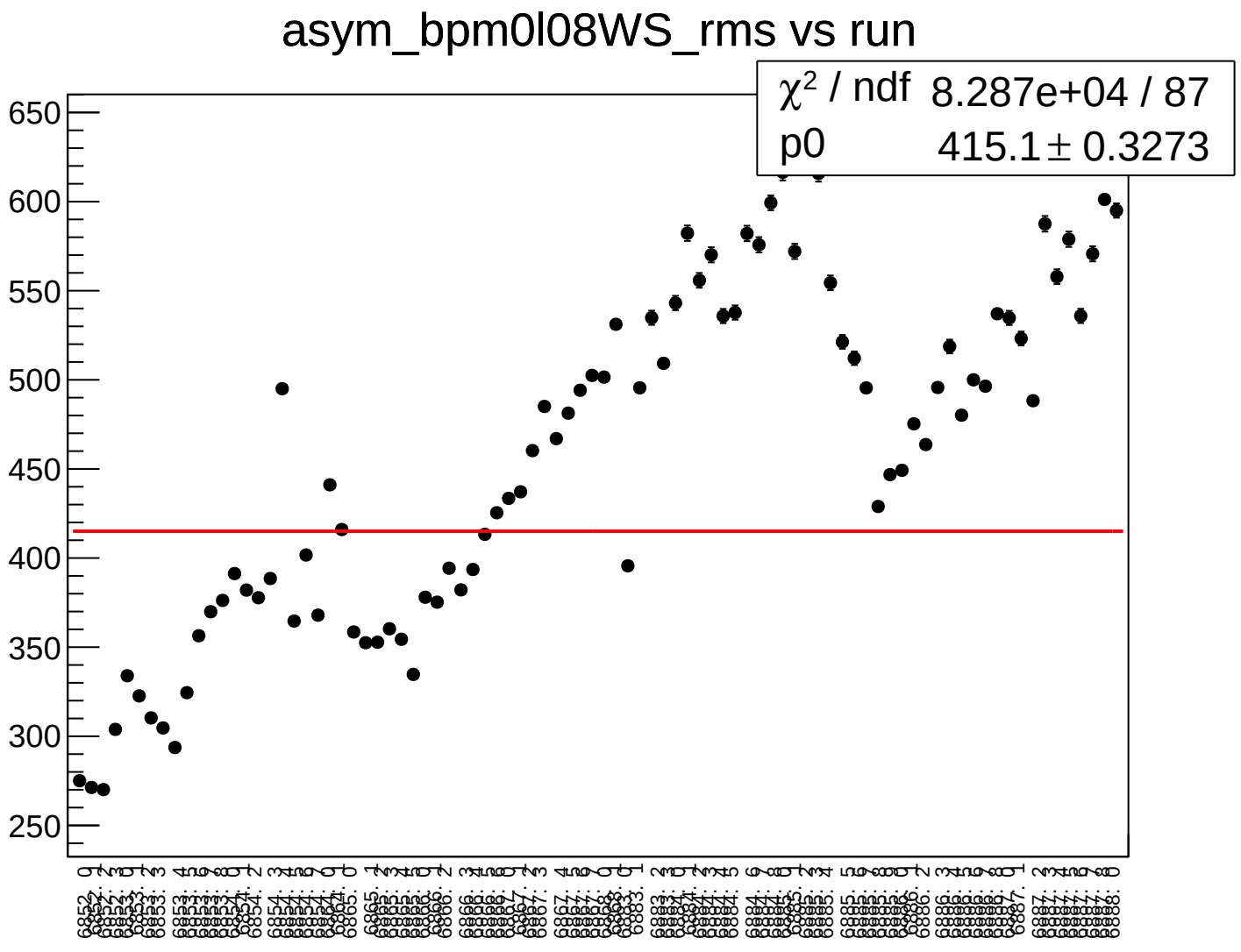

asym_bpm0l07WS_mean vs run
χ² / ndf 61 / 87
p0 909 ± 460.2
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 136.5
Std Dev 0
3
2
1
0
−1
−2

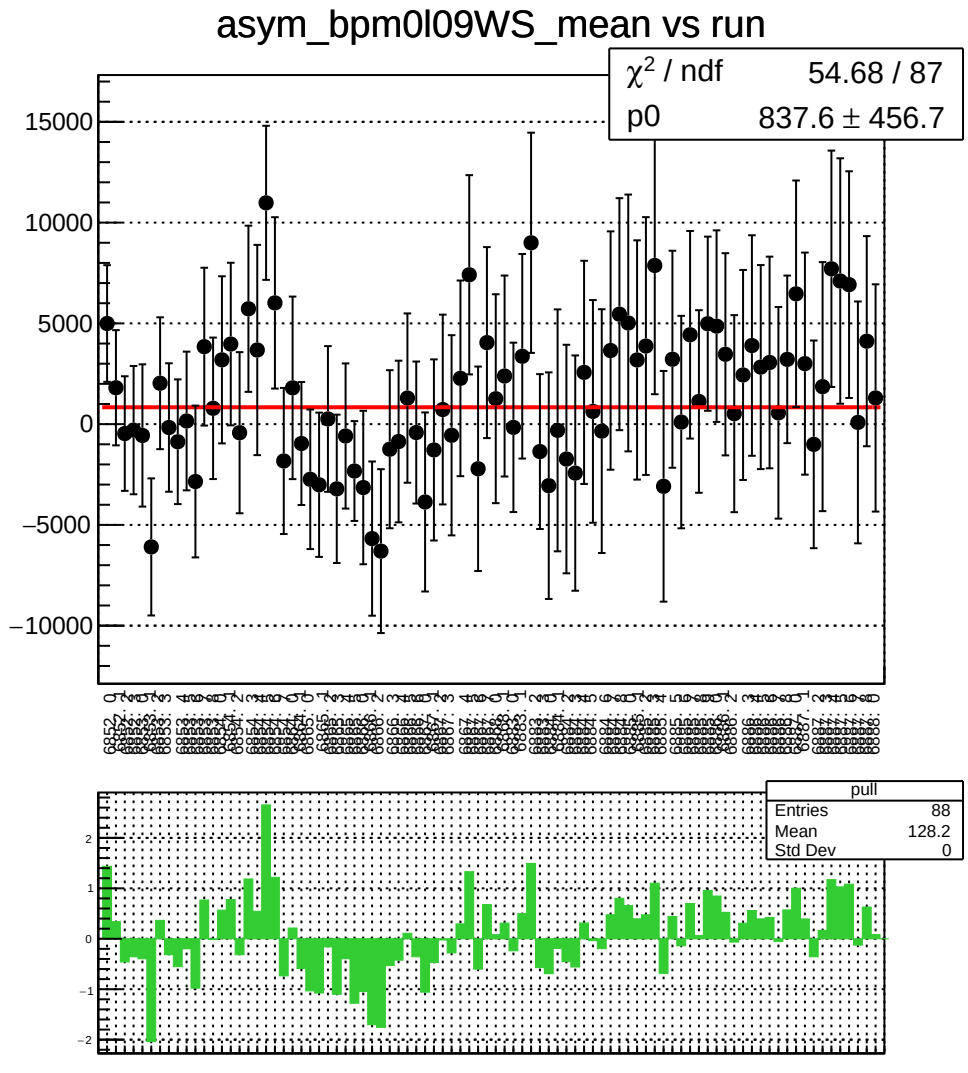

pull1D
Entries 88
Mean 0.06129
Std Dev 0.8303
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

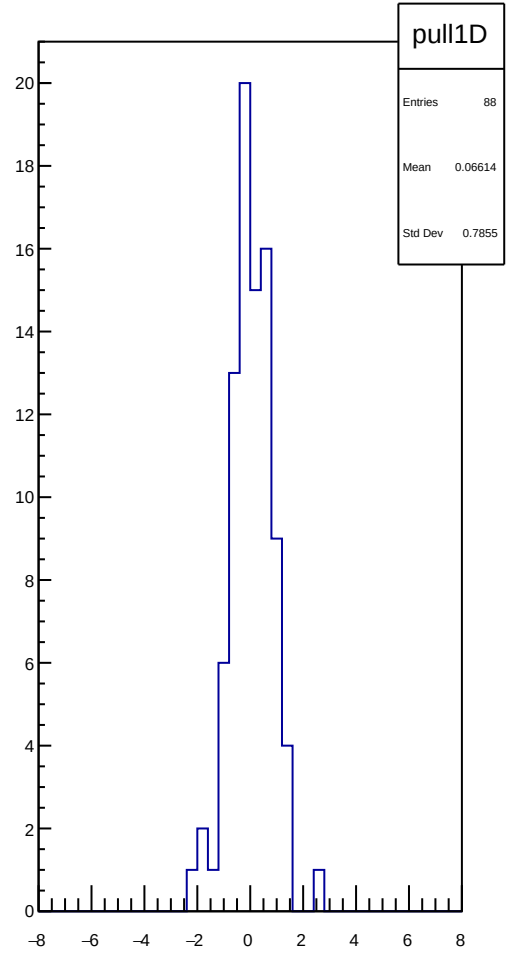

asym_bpm0l07WS_rms vs run
χ² / ndf 8.374e+04 / 87
p0 412.6 ± 0.3254
650
600
550
500
450
400
350
300
250

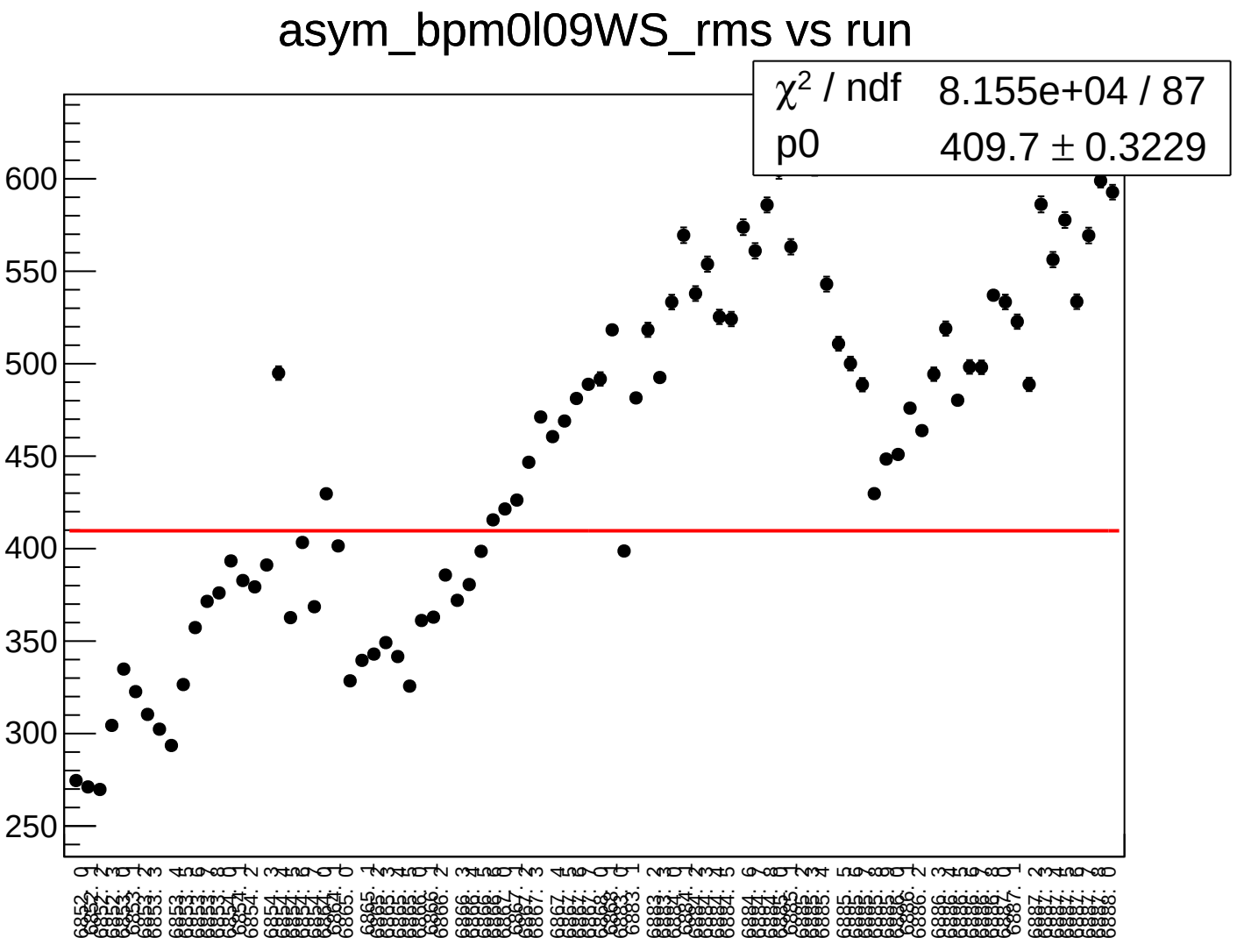

asym_bpm0l08WS_mean vs run
χ² / ndf 58.6 / 87
p0 880.6 ± 462.9
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 128
Std Dev 0
3
2
1
0
−1
−2

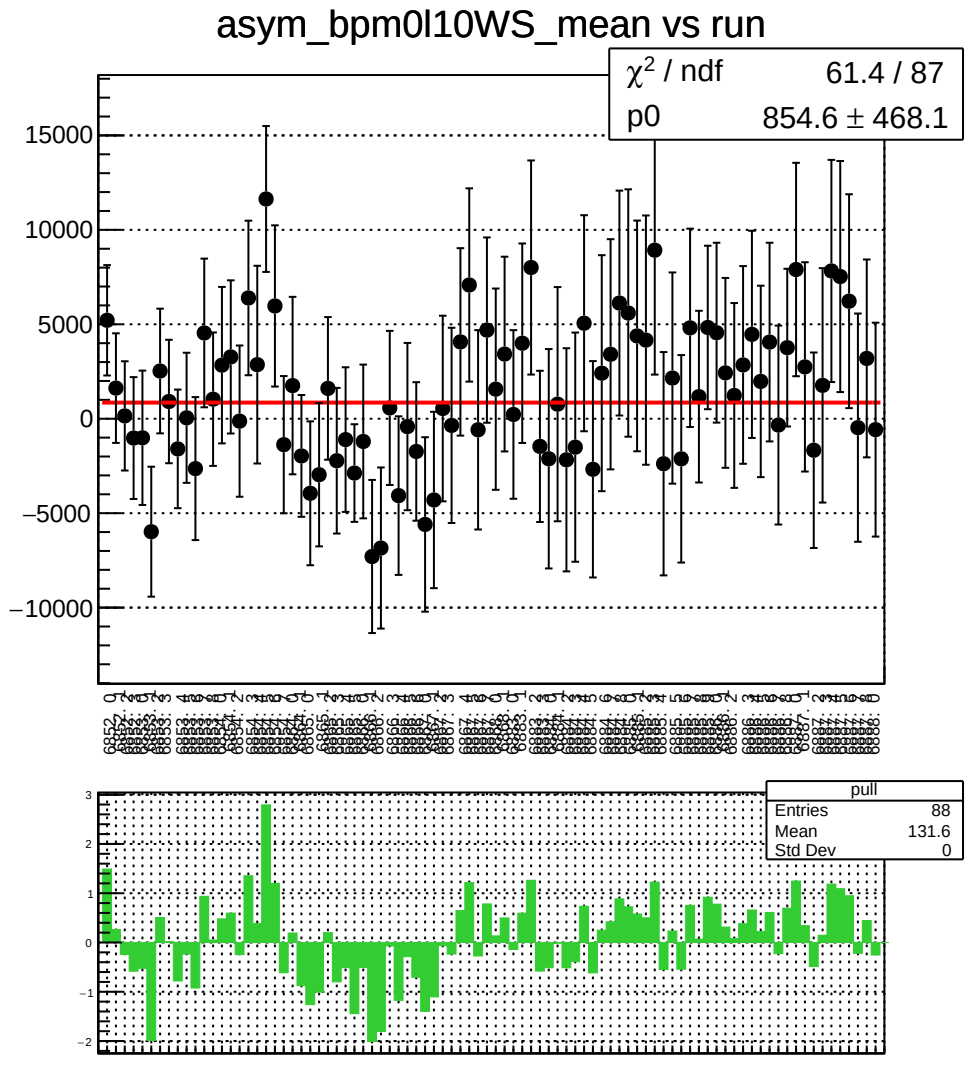

pull1D
Entries 88
Mean 0.06261
Std Dev 0.8136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

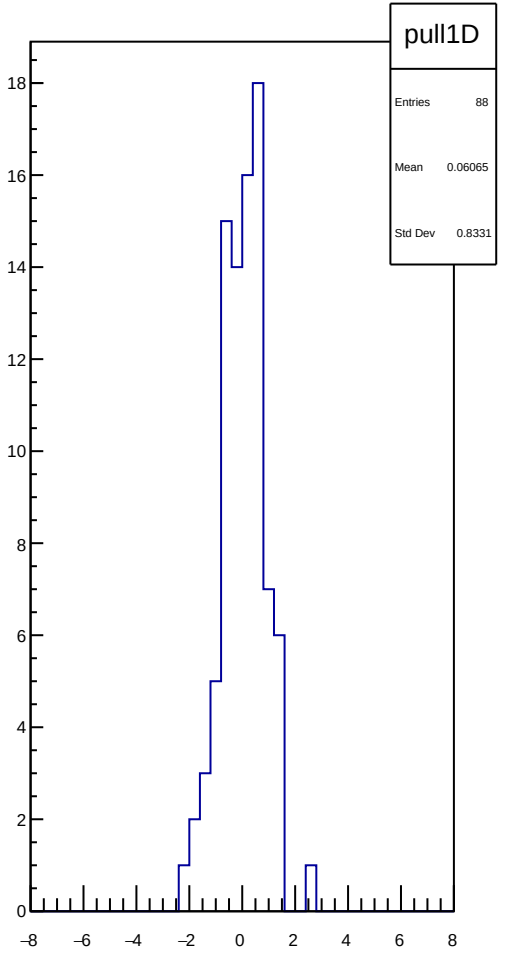

asym_bpm0l08WS_rms vs run
χ² / ndf 8.287e+04 / 87
p0 415.1 ± 0.3273
650
600
550
500
450
400
350
300
250

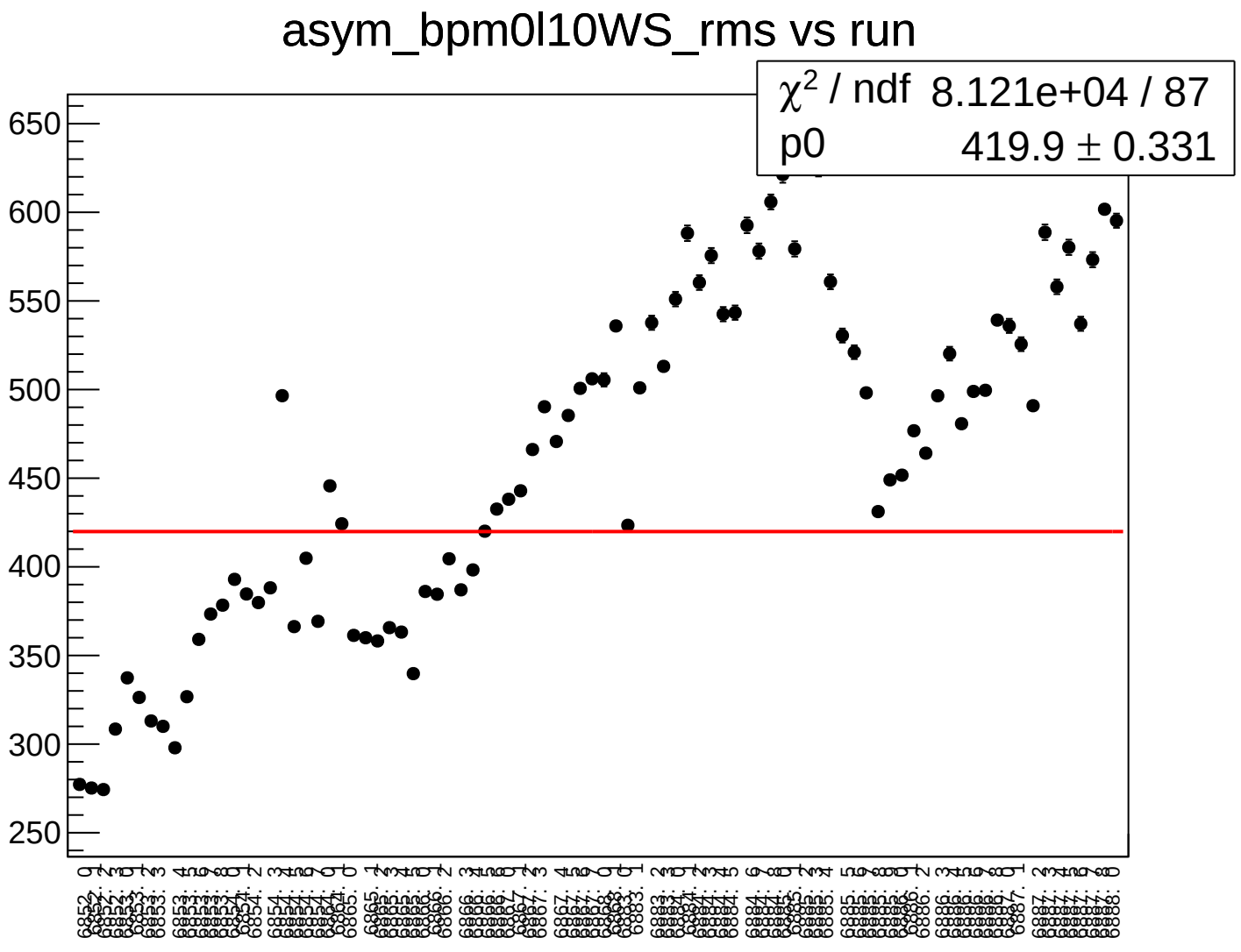

asym_bpm0l09WS_mean vs run
χ² / ndf 54.68 / 87
p0 837.6 ± 456.7
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 128.2
Std Dev 0
2
1
0
−1
−2

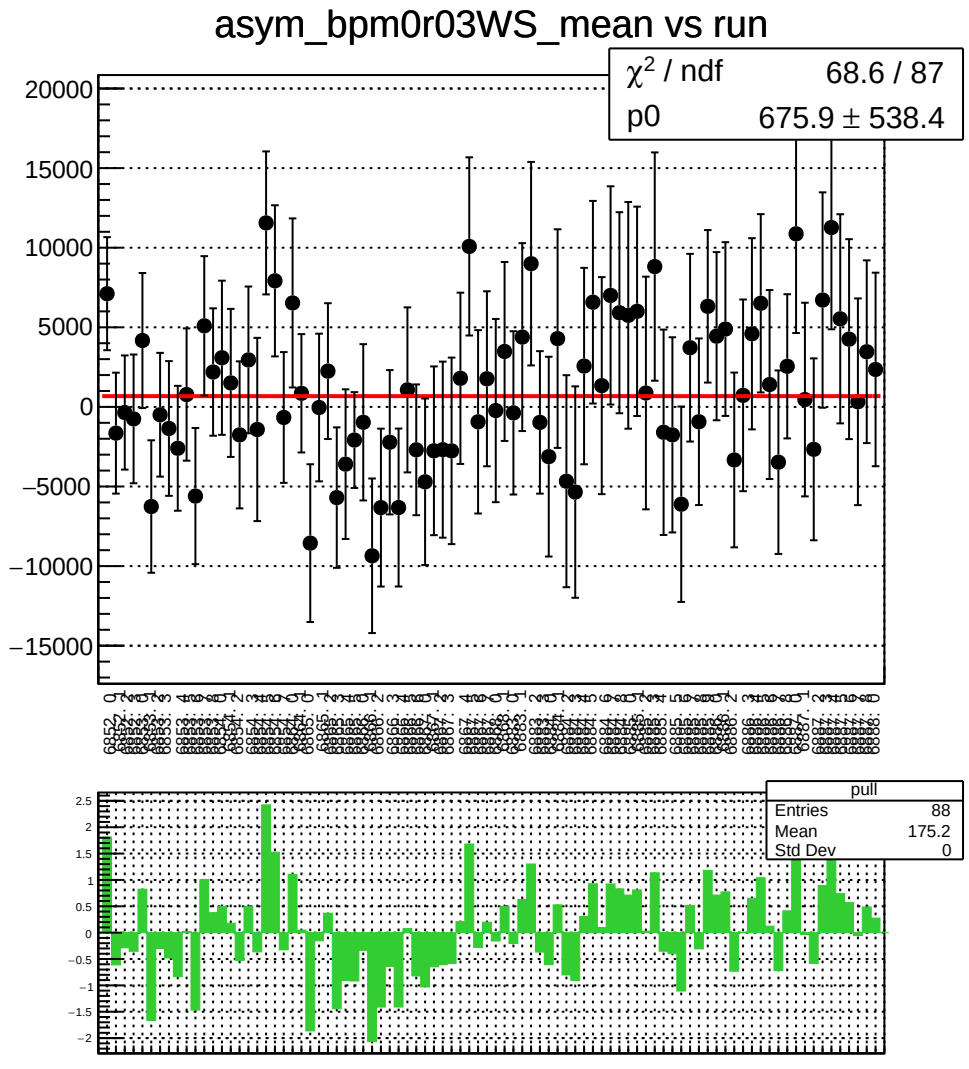

pull1D
Entries 88
Mean 0.06614
Std Dev 0.7855
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

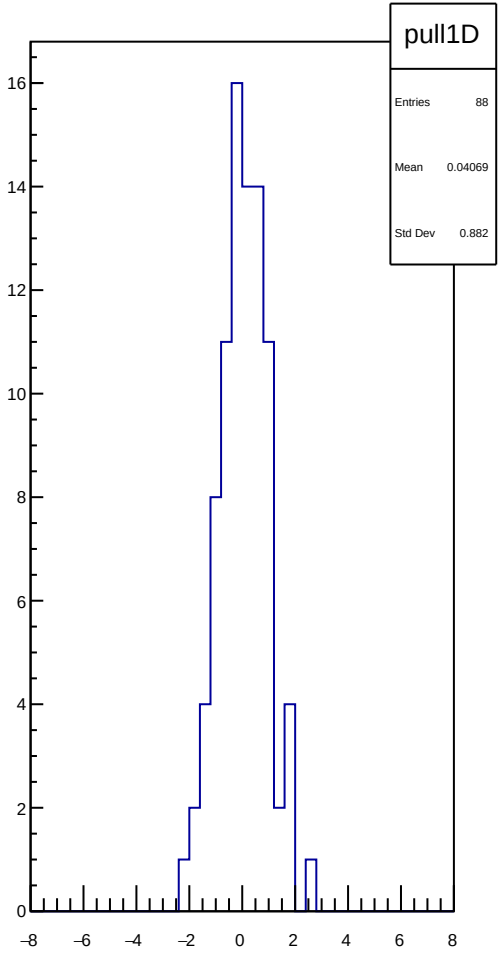

asym_bpm0l09WS_rms vs run
χ² / ndf 8.155e+04 / 87
p0 409.7 ± 0.3229
600
550
500
450
400
350
300
250

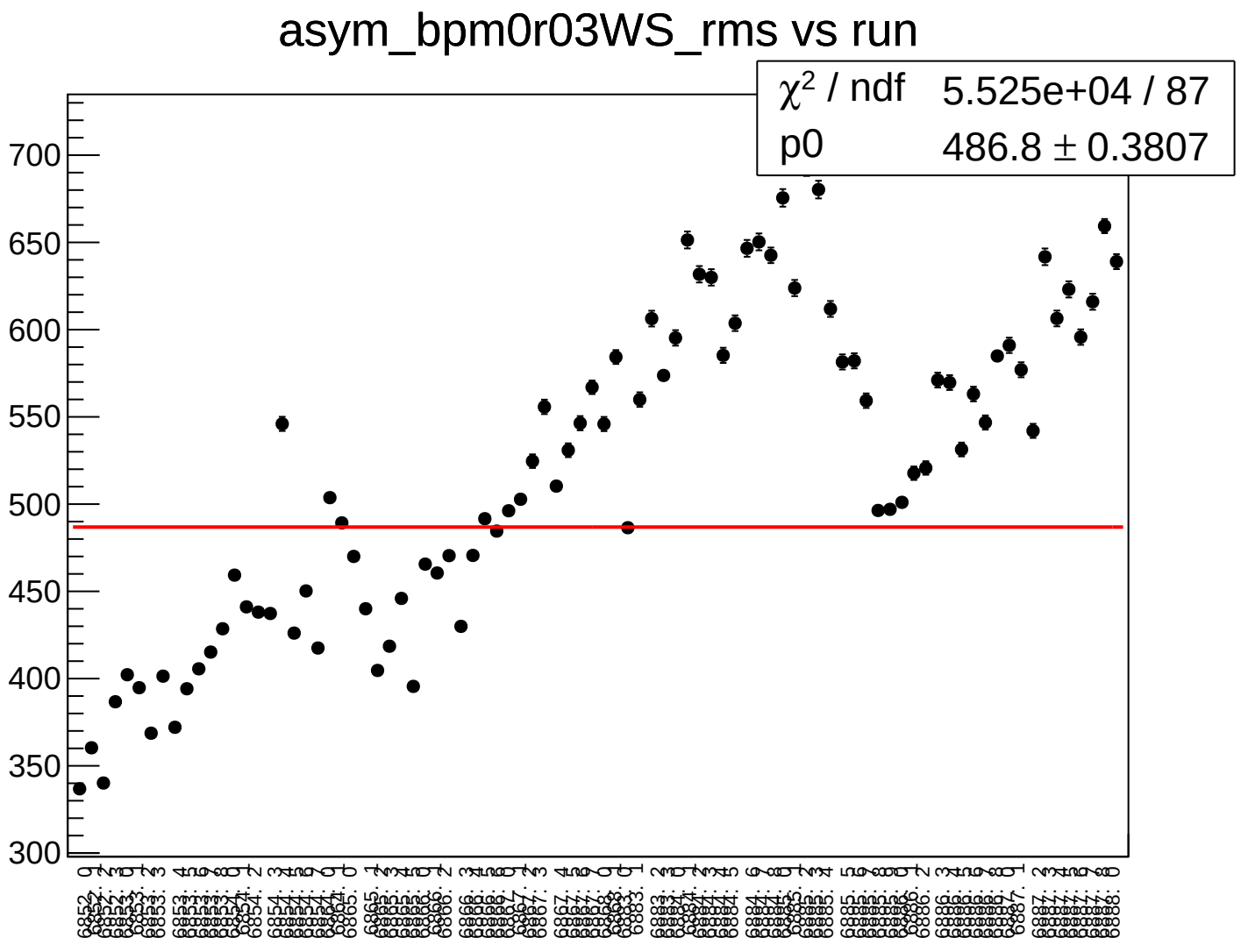

asym_bpm0l10WS_mean vs run
χ² / ndf 61.4 / 87
p0 854.6 ± 468.1
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 131.6
Std Dev 0
3
2
1
0
−1
−2

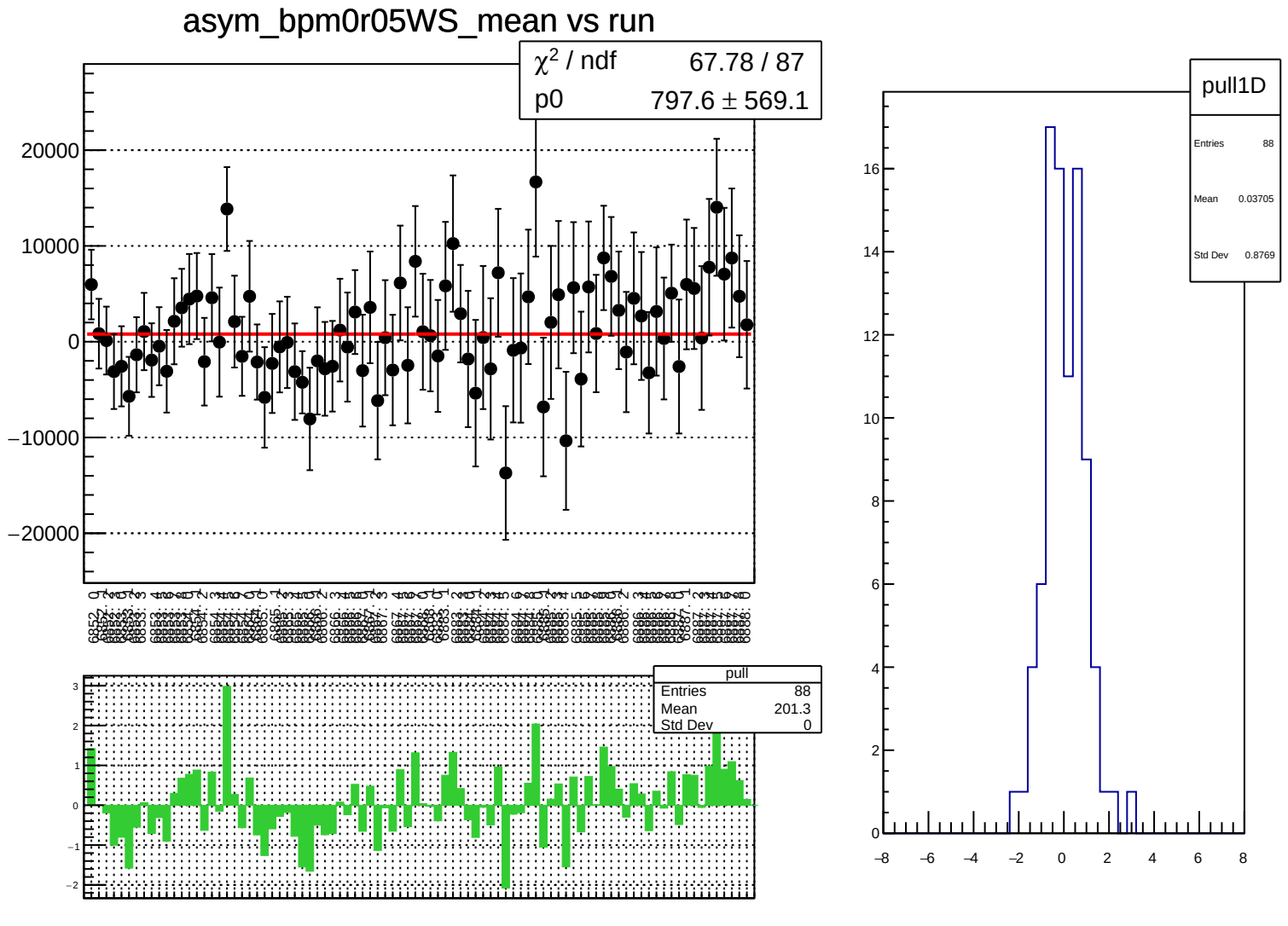

pull1D
Entries 88
Mean 0.06065
Std Dev 0.8331
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

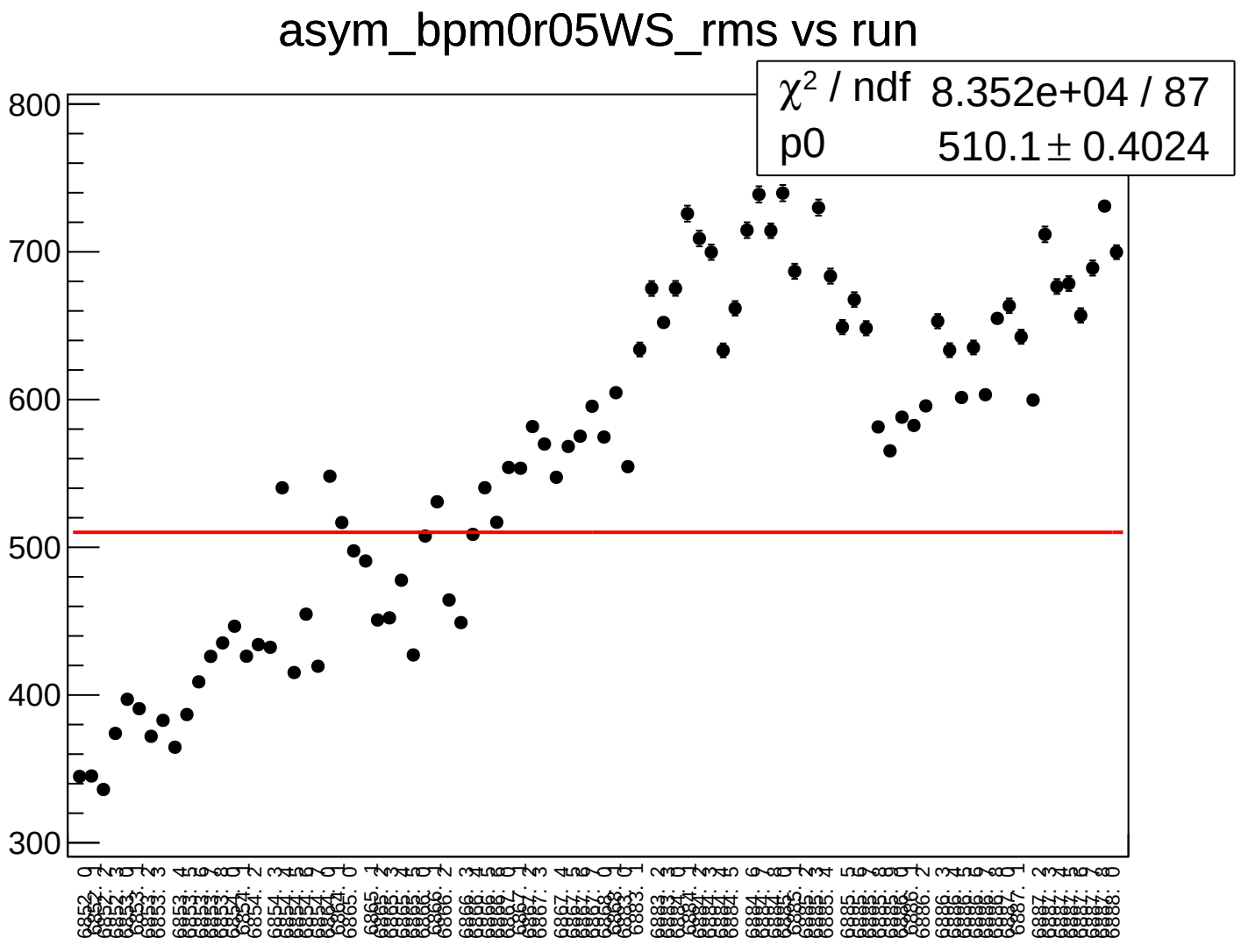

asym_bpm0l10WS_rms vs run
χ² / ndf 8.121e+04 / 87
p0 419.9 ± 0.331
650
600
550
500
450
400
350
300
250

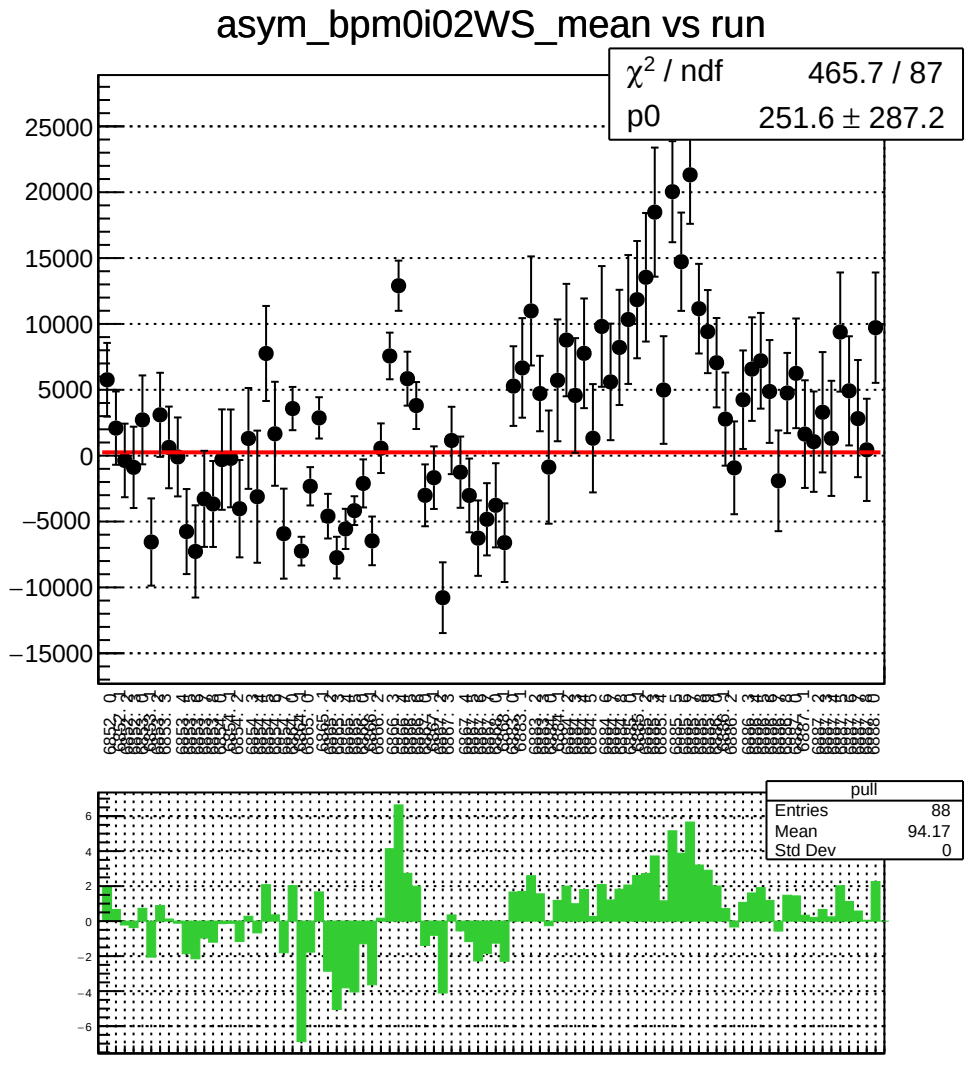

asym_bpm0r03WS_mean vs run
χ² / ndf 68.6 / 87
p0 675.9 ± 538.4
pull
Entries 88
Mean 175.2
Std Dev 0

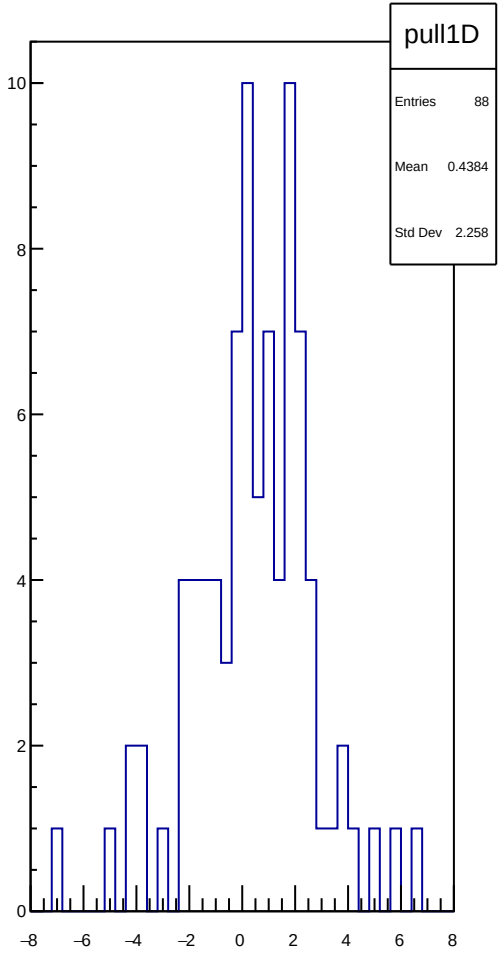

pull1D
Entries 88
Mean 0.04069
Std Dev 0.882

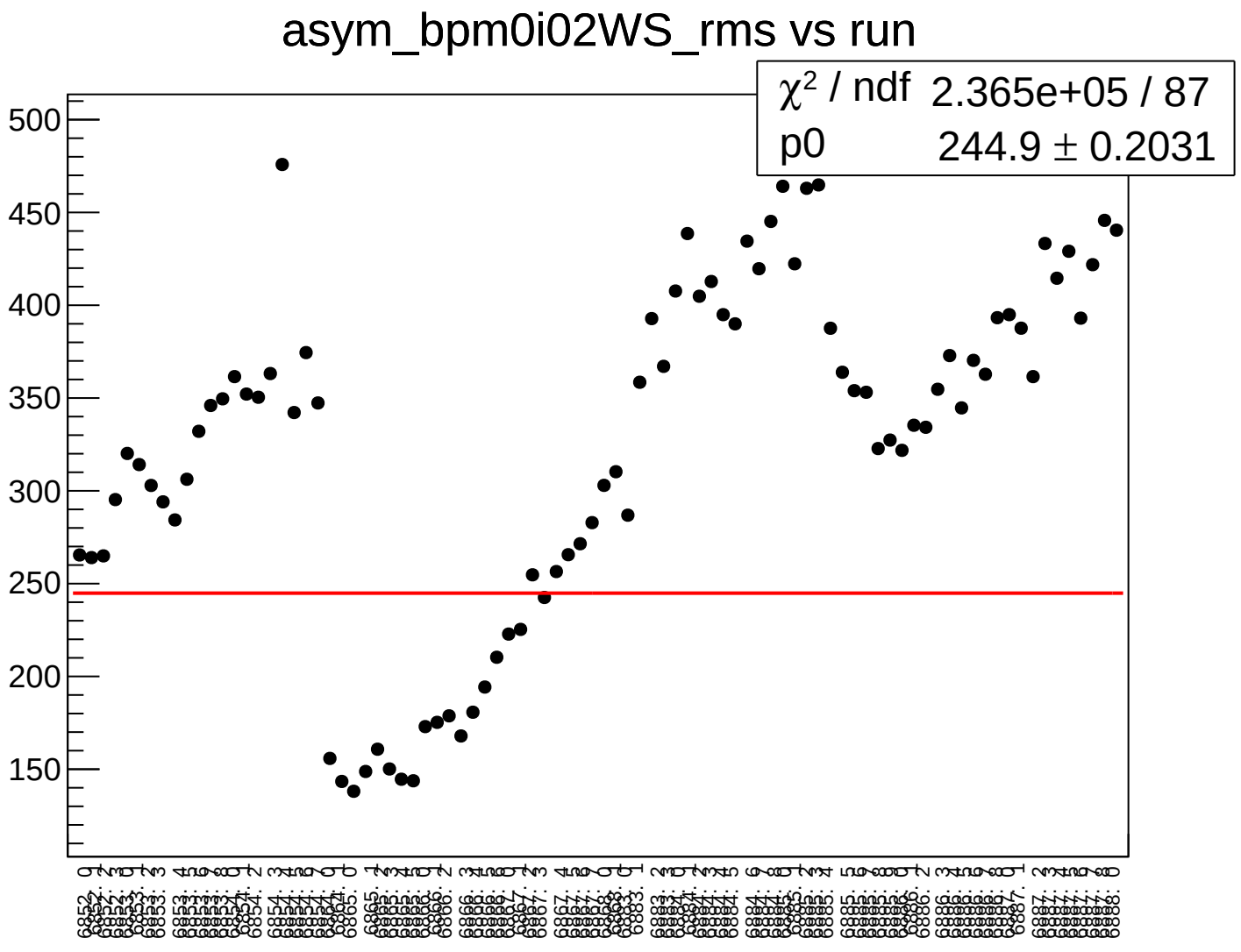

asym_bpm0r03WS_rms vs run
χ² / ndf 5.525e+04 / 87
p0 486.8 ± 0.3807
700
650
600
550
500
450
400
350
300

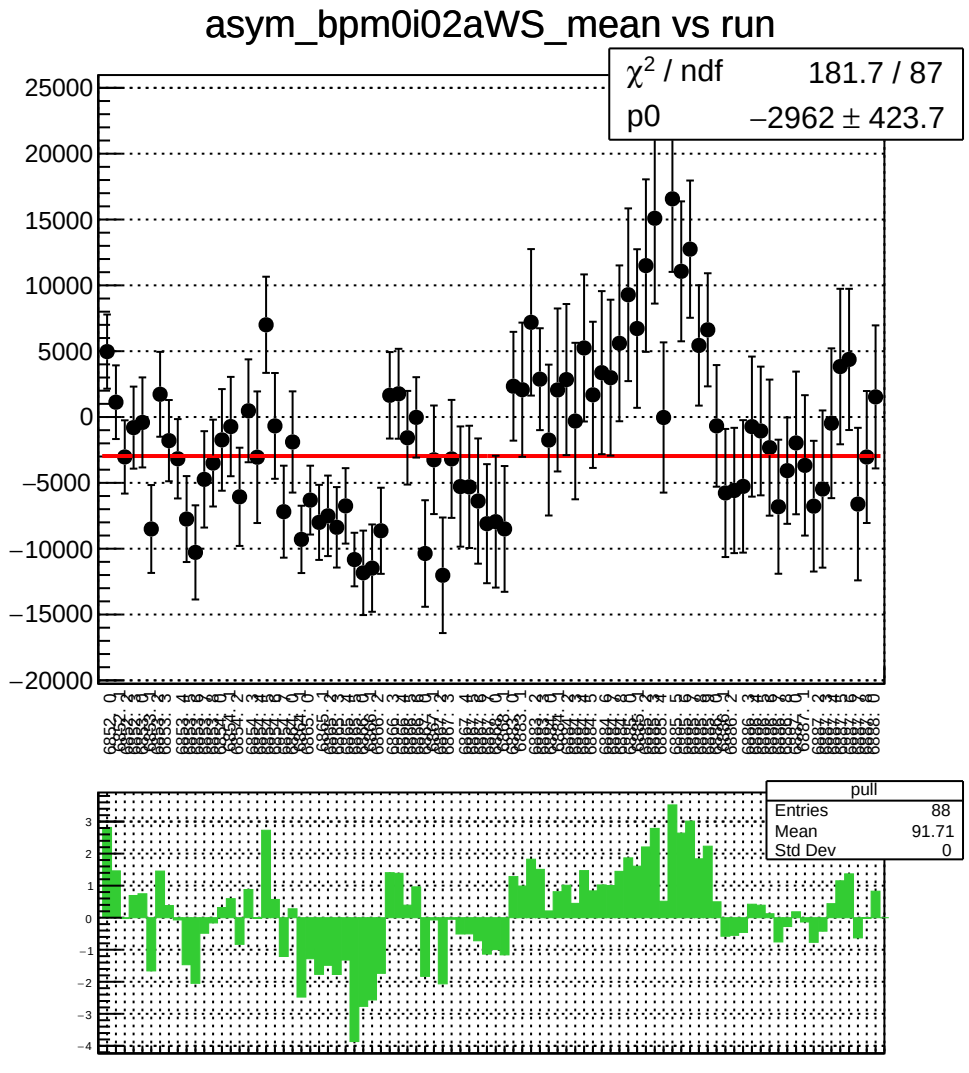

asym_bpm0r05WS_mean vs run
χ² / ndf 67.78 / 87
p0 797.6 ± 569.1
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 201.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.03705
Std Dev 0.8769
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

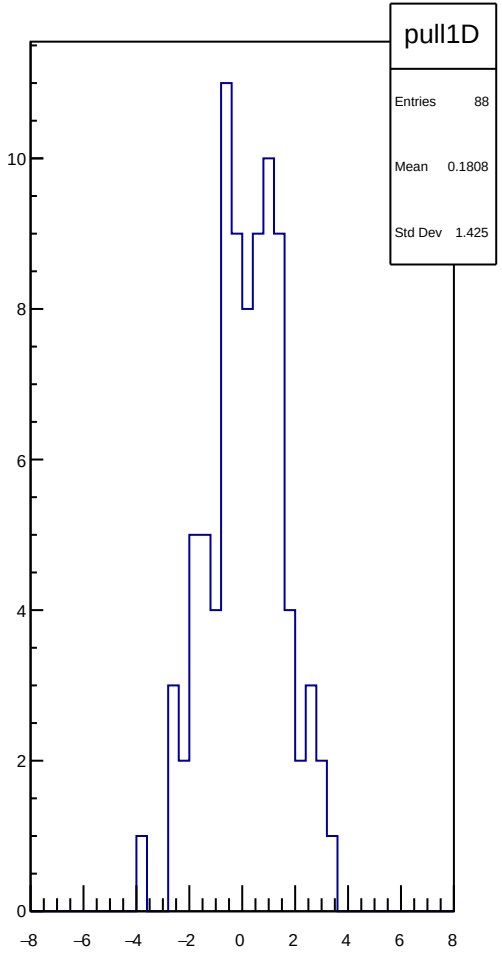

asym_bpm0r05WS_rms vs run
χ² / ndf 8.352e+04 / 87
p0 510.1 ± 0.4024
800
700
600
500
400
300

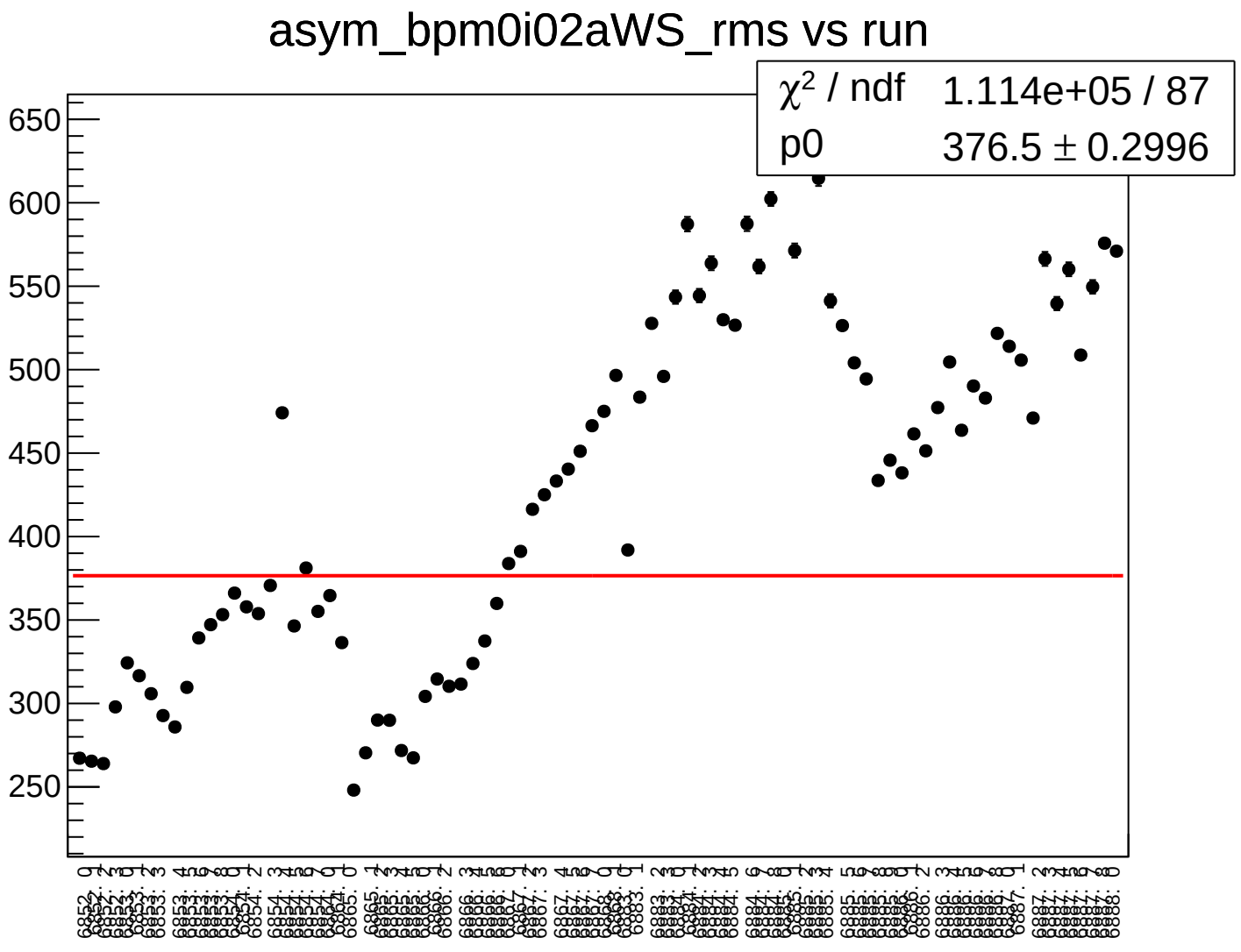

asym_bpm0i02WS_mean vs run
χ² / ndf 465.7 / 87
p0 251.6 ± 287.2
pull
Entries 88
Mean 94.17
Std Dev 0

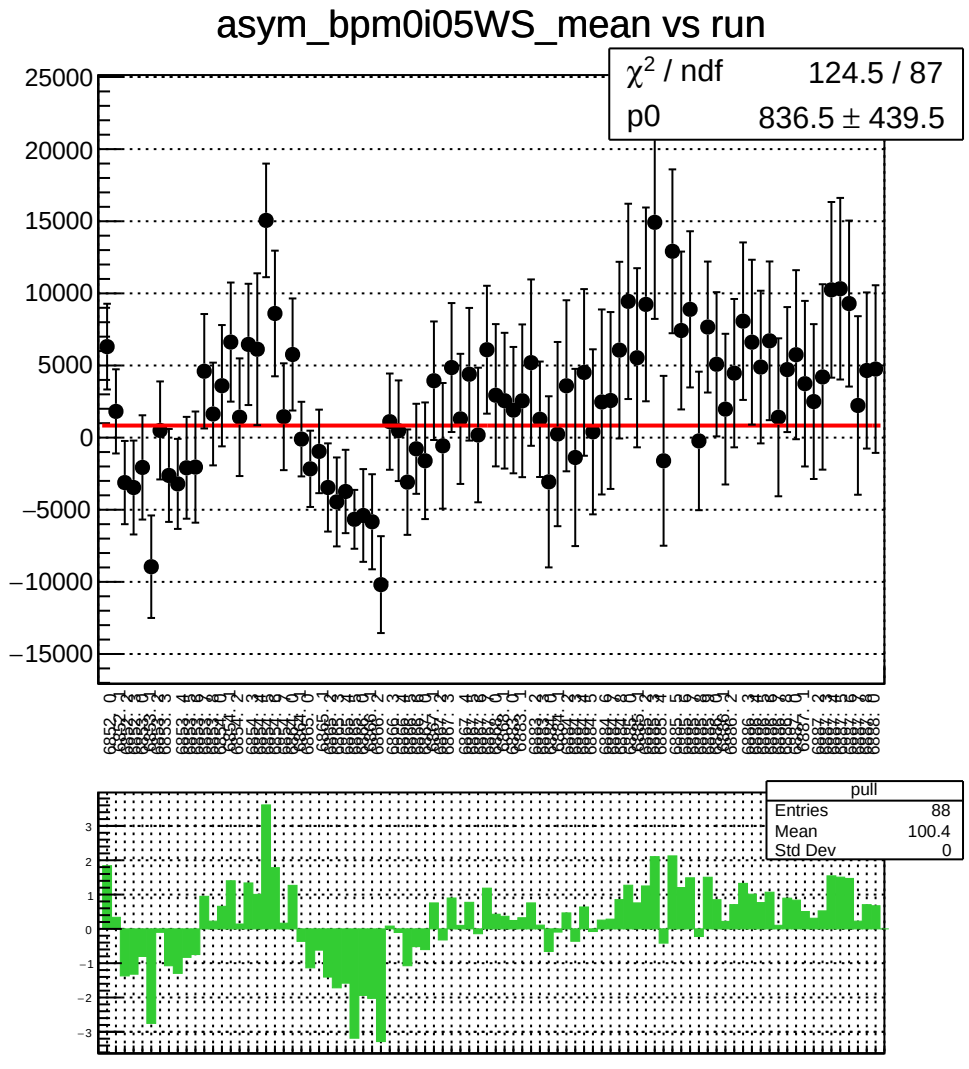

pull1D
Entries 88
Mean 0.4384
Std Dev 2.258

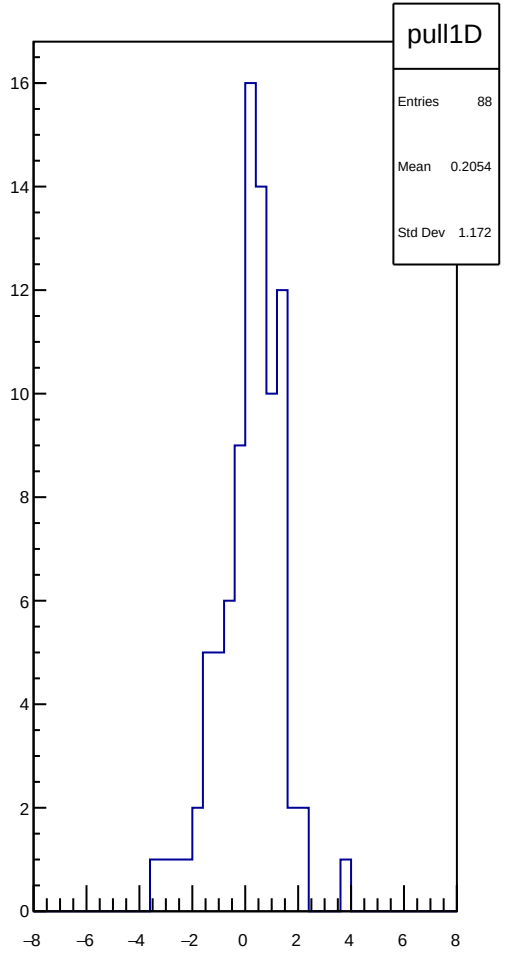

asym_bpm0i02WS_rms vs run
χ² / ndf 2.365e+05 / 87
p0 244.9 ± 0.2031
500
450
400
350
300
250
200
150

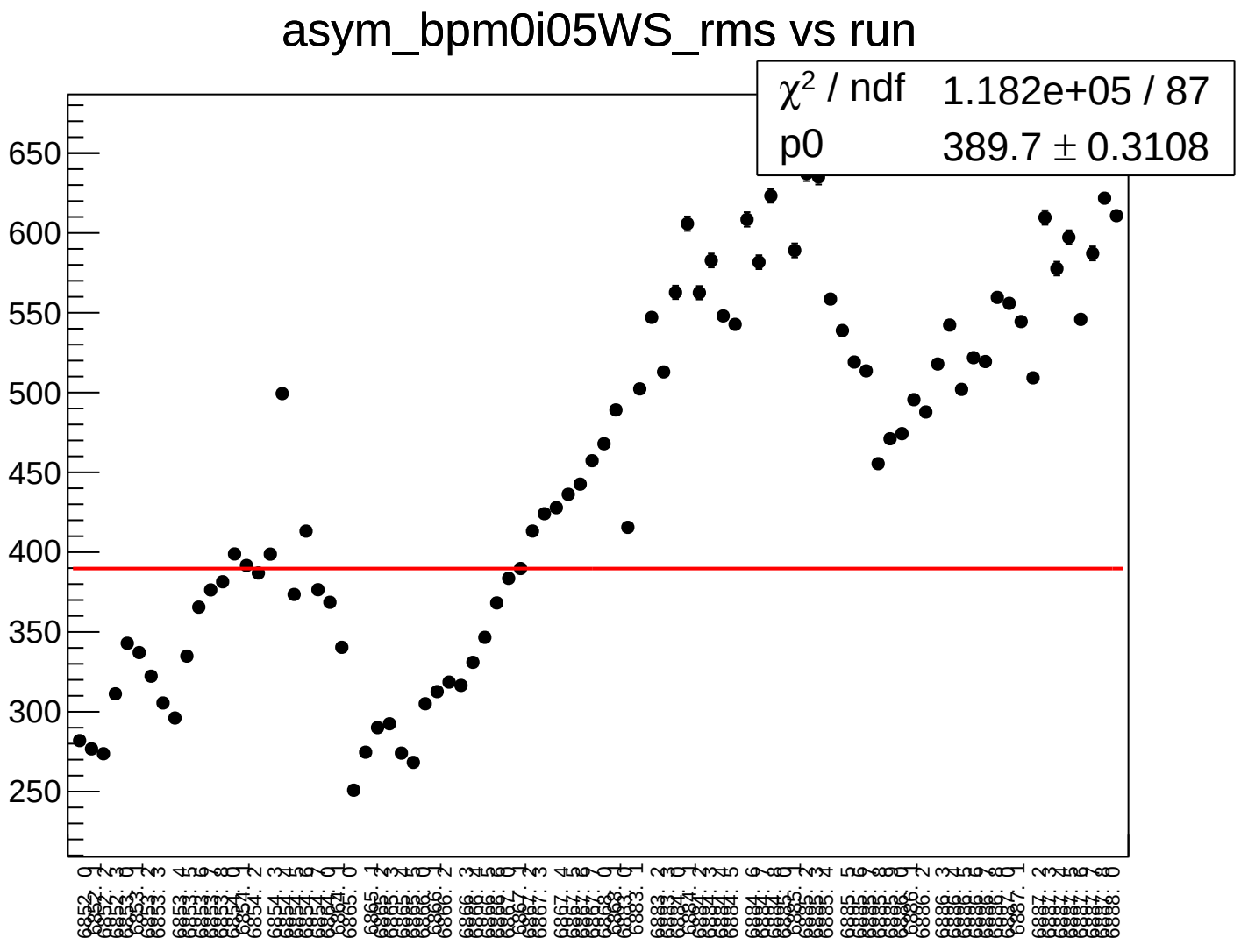

asym_bpm0i02aWS_mean vs run
χ² / ndf 181.7 / 87
p0 −2962 ± 423.7
pull
Entries 88
Mean 91.71
Std Dev 0

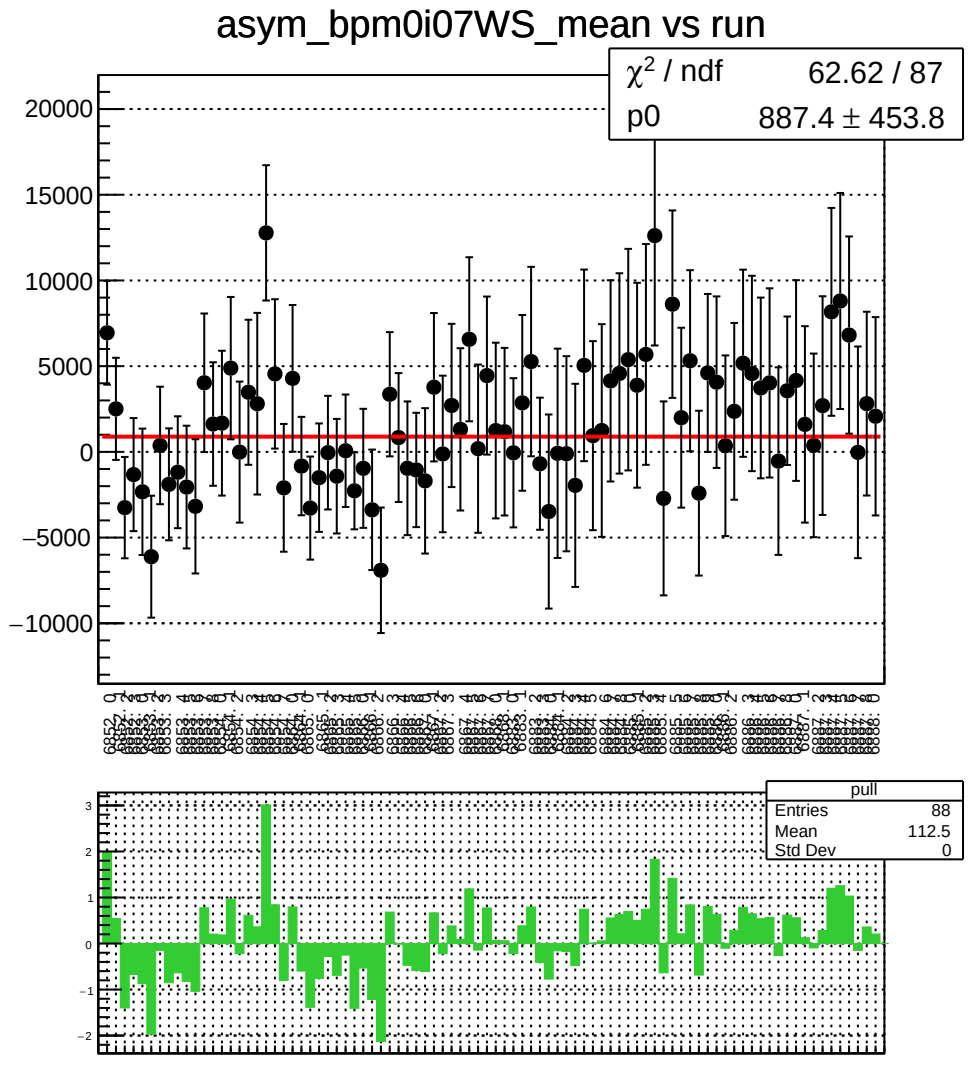

pull1D
Entries 88
Mean 0.1808
Std Dev 1.425

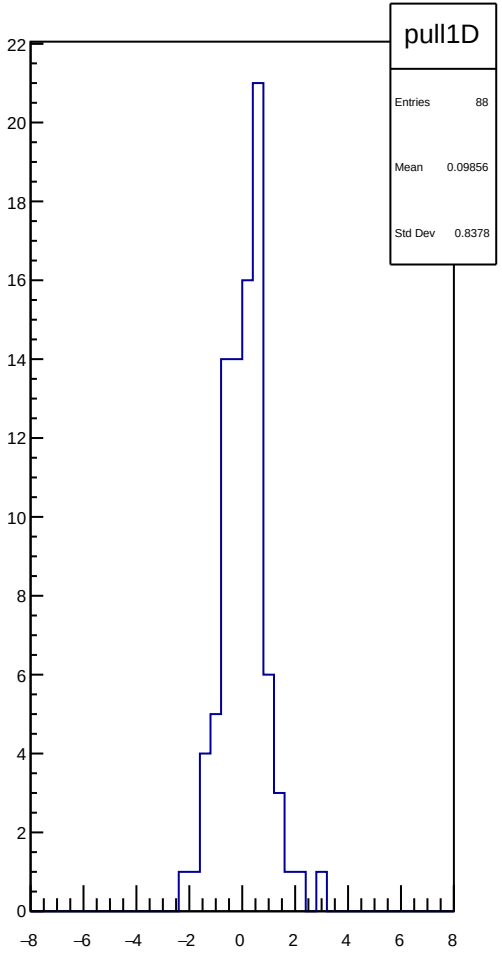

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.114e+05 / 87
p0 376.5 ± 0.2996
650
600
550
500
450
400
350
300
250

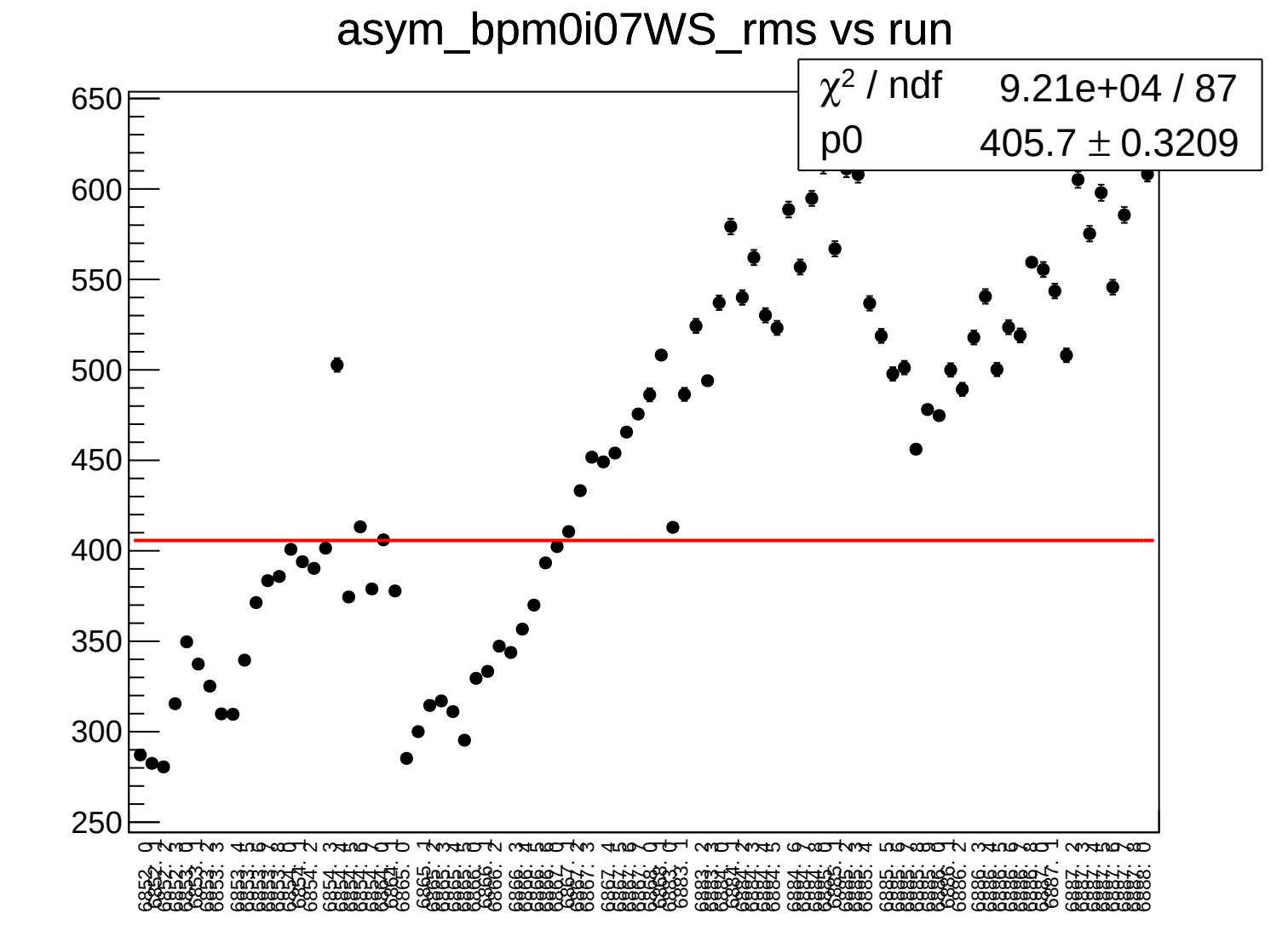

asym_bpm0i05WS_mean vs run
χ² / ndf 124.5 / 87
p0 836.5 ± 439.5
pull
Entries 88
Mean 100.4
Std Dev 0

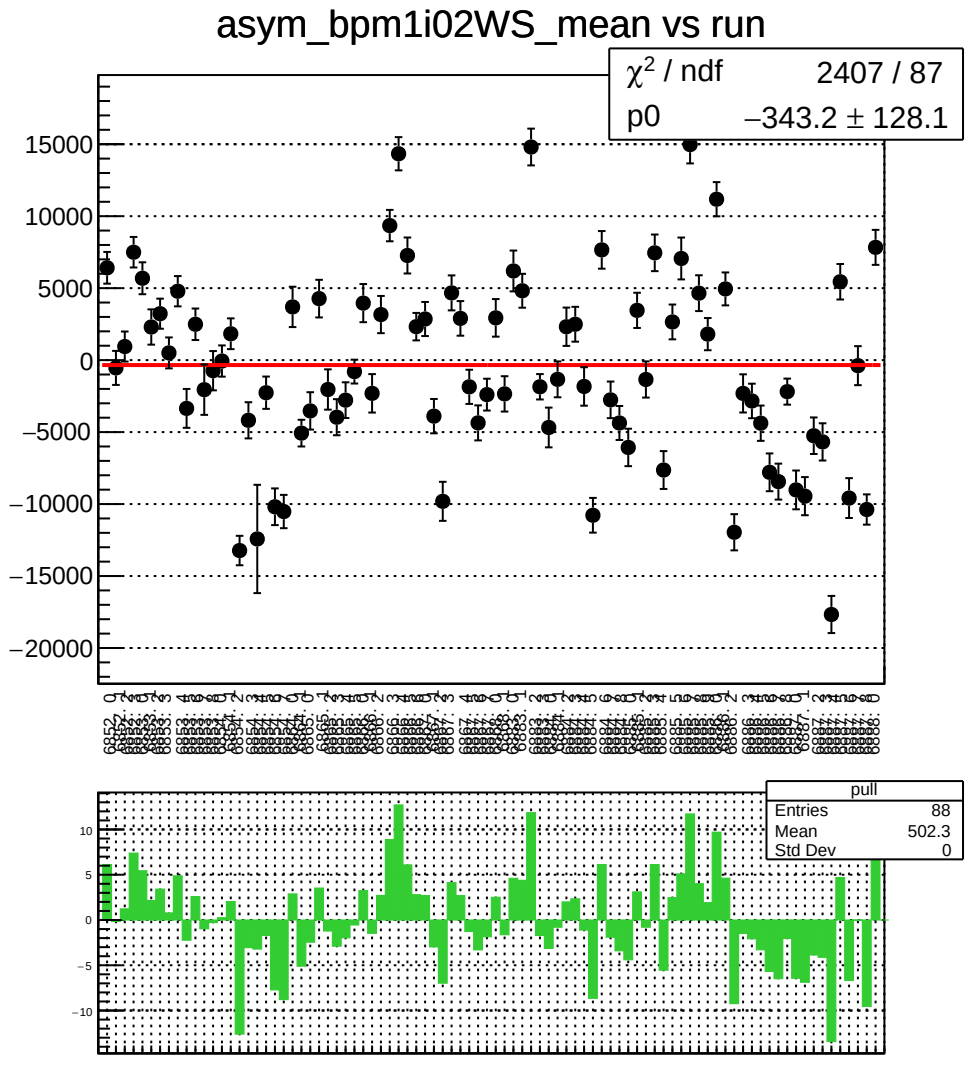

pull1D
Entries 88
Mean 0.2054
Std Dev 1.172

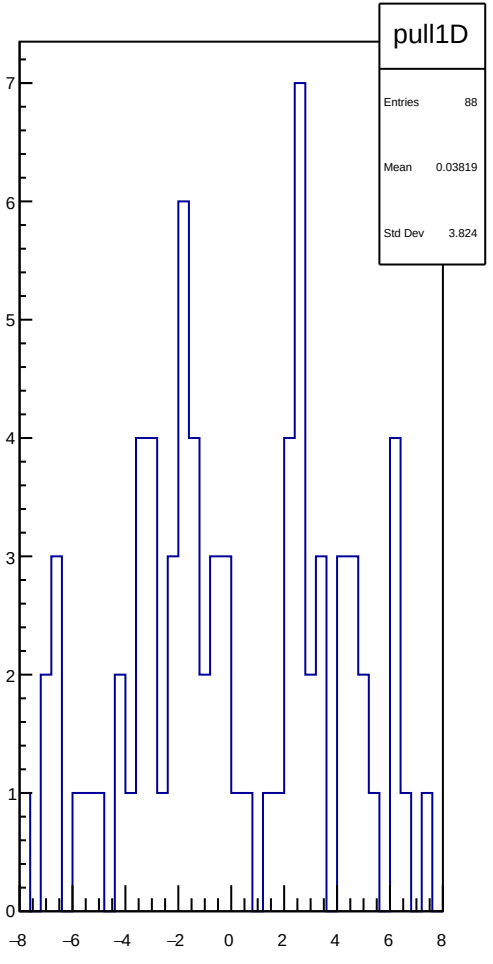

asym_bpm0i05WS_rms vs run
χ² / ndf 1.182e+05 / 87
p0 389.7 ± 0.3108
650
600
550
500
450
400
350
300
250

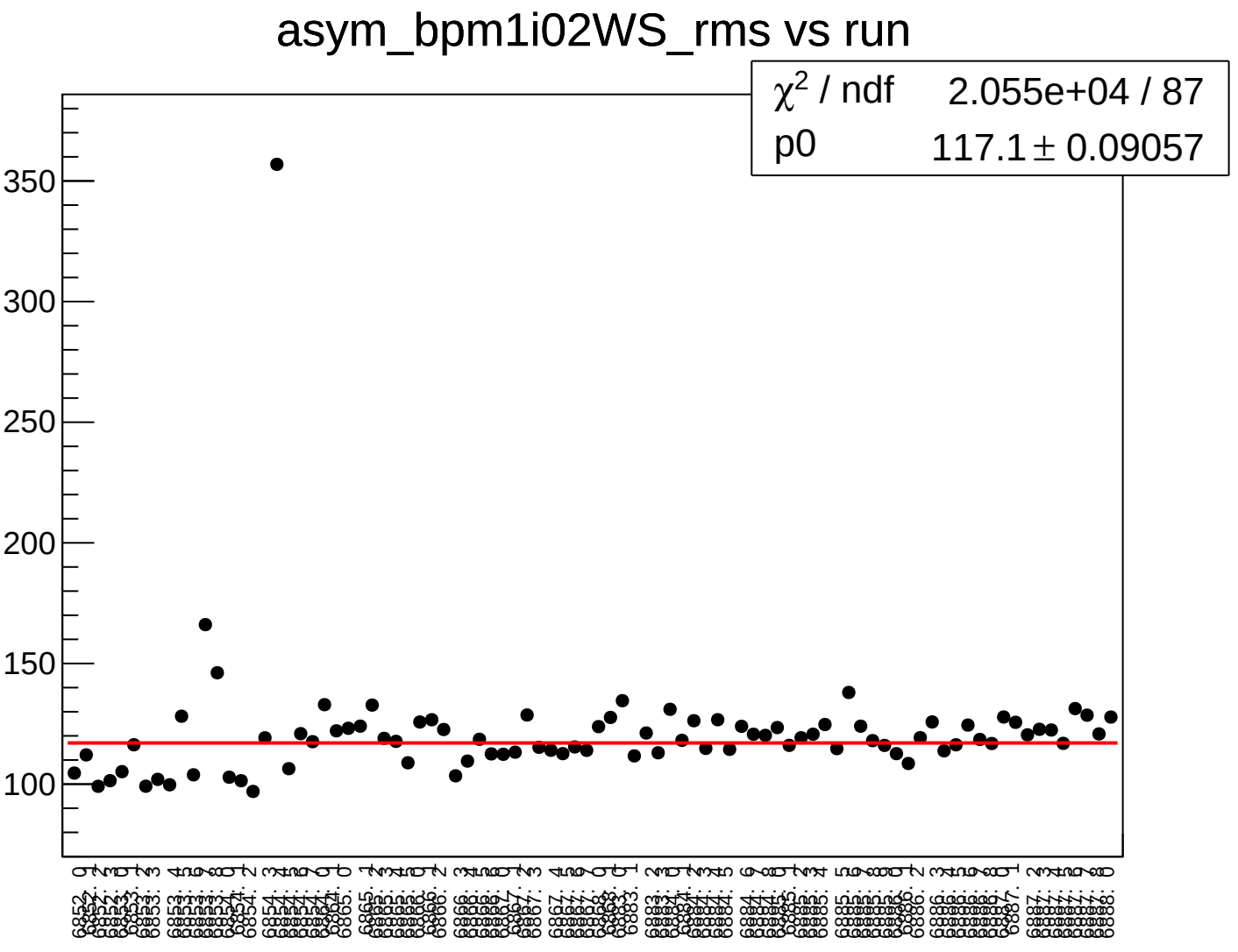

asym_bpm0i07WS_mean vs run
χ² / ndf 62.62 / 87
p0 887.4 ± 453.8
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 112.5
Std Dev 0
3
2
1
0
−1
−2

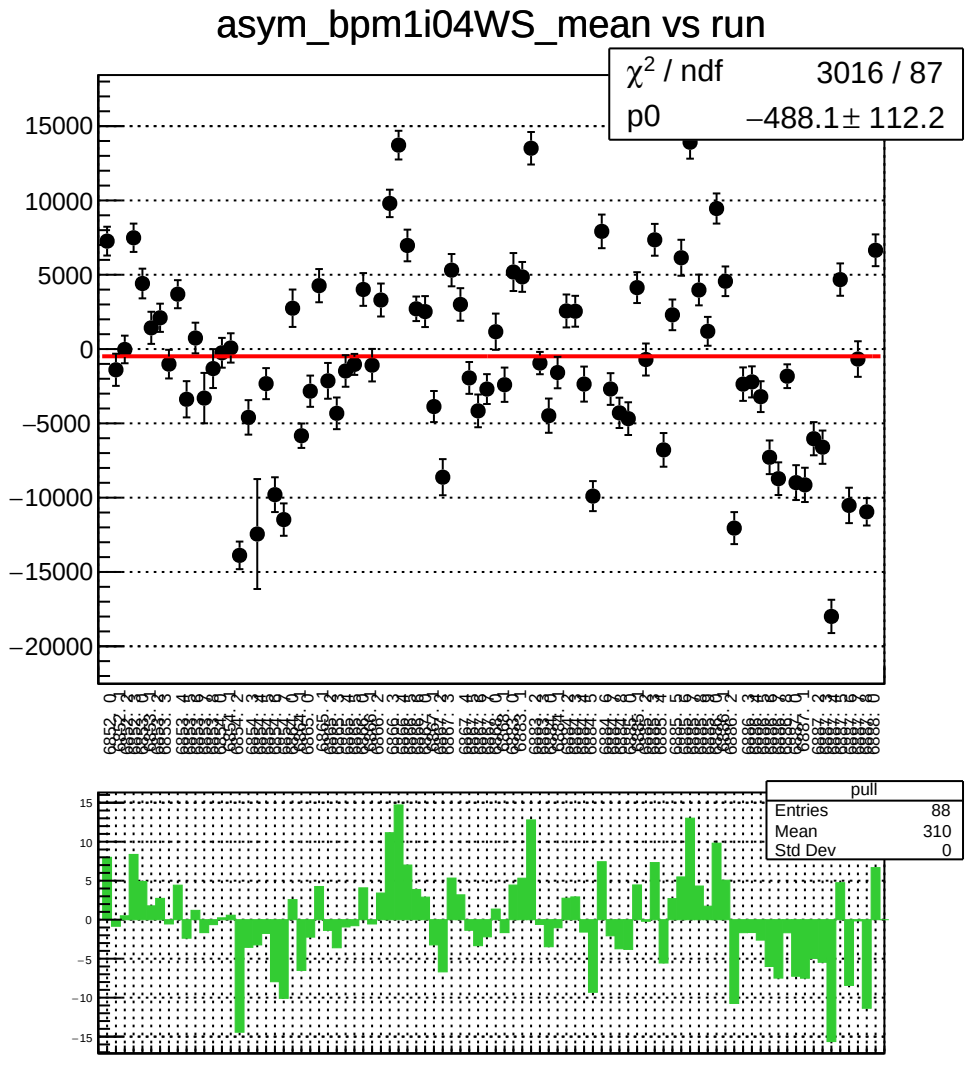

pull1D
Entries 88
Mean 0.09856
Std Dev 0.8378
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

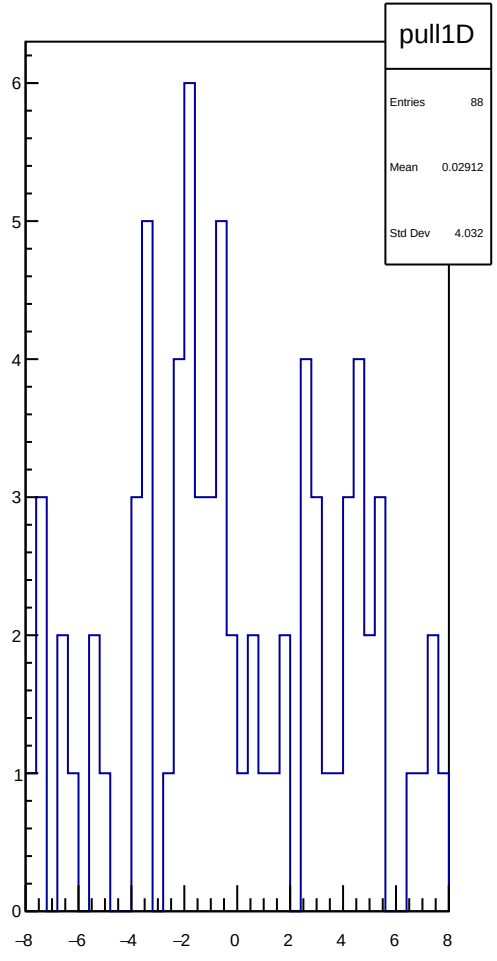

asym_bpm0i07WS_rms vs run
χ² / ndf 9.21e+04 / 87
p0 405.7 ± 0.3209
650
600
550
500
450
400
350
300
250

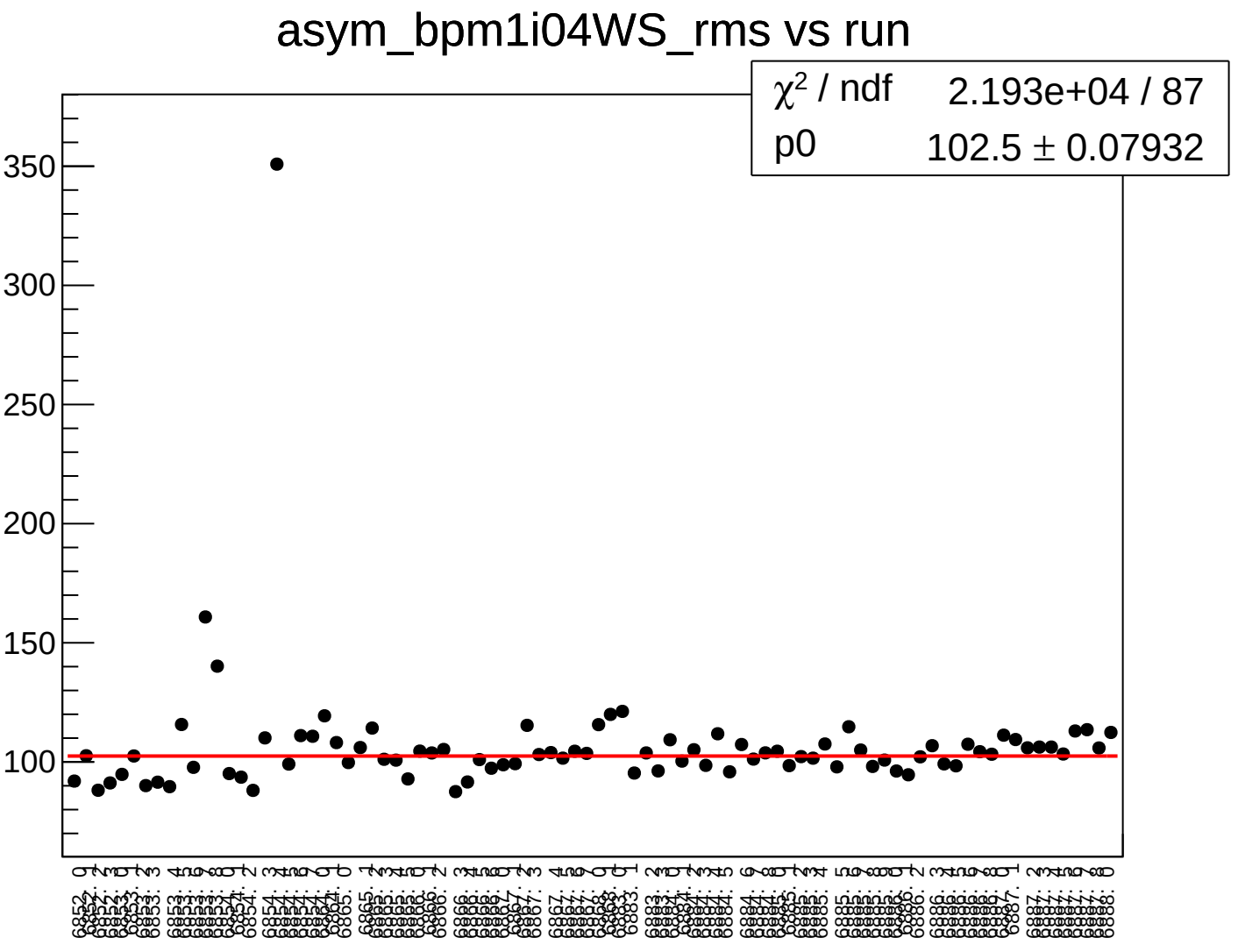

asym_bpm1i02WS_mean vs run
χ² / ndf 2407 / 87
p0 −343.2 ± 128.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 502.3
Std Dev 0
10
5
0
−5
−10

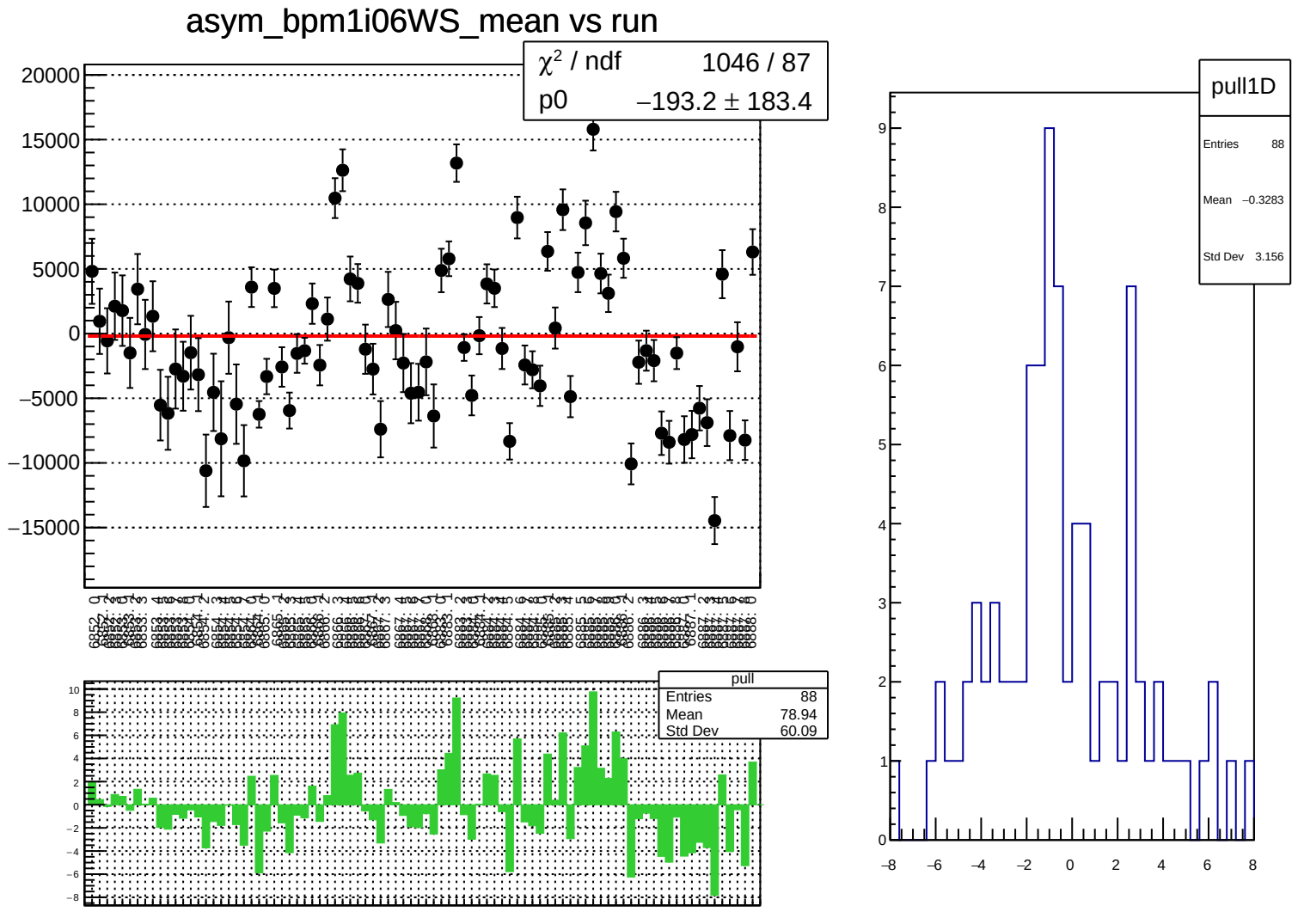

pull1D
Entries 88
Mean 0.03819
Std Dev 3.824
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

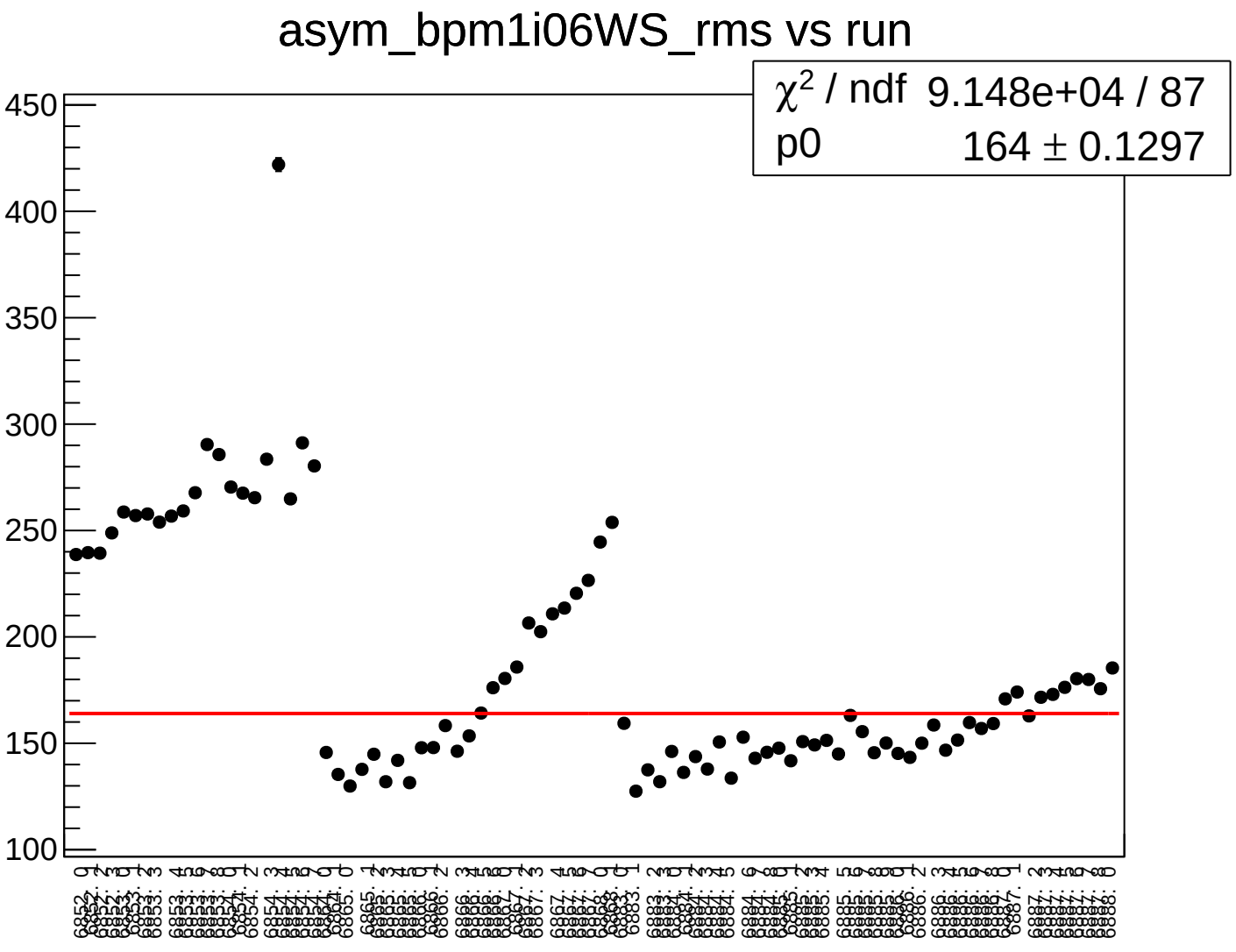

asym_bpm1i02WS_rms vs run
χ^2 / ndf 2.055e+04 / 87
p0 117.1 ± 0.09057
350
300
250
200
150
100

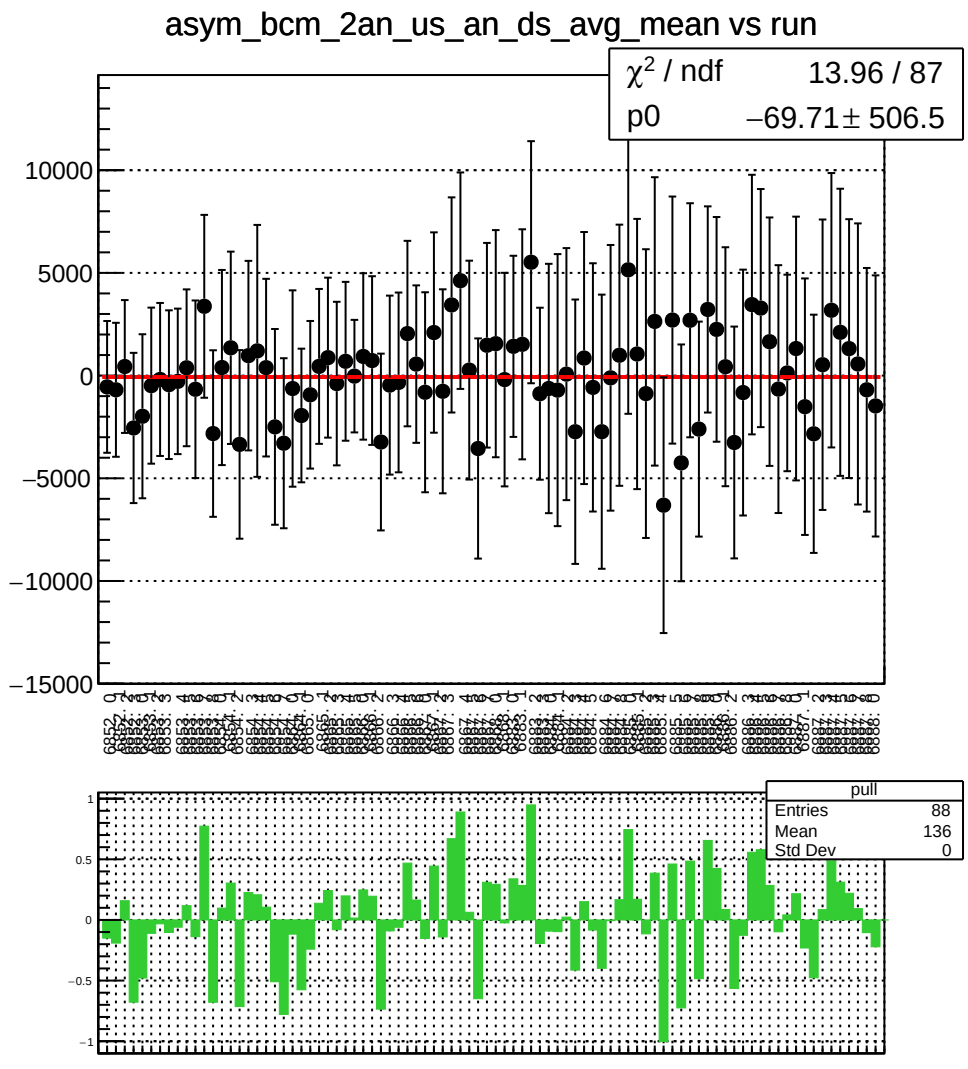

asym_bpm1i04WS_mean vs run
χ² / ndf 3016 / 87
p0 −488.1± 112.2
pull
Entries 88
Mean 310
Std Dev 0

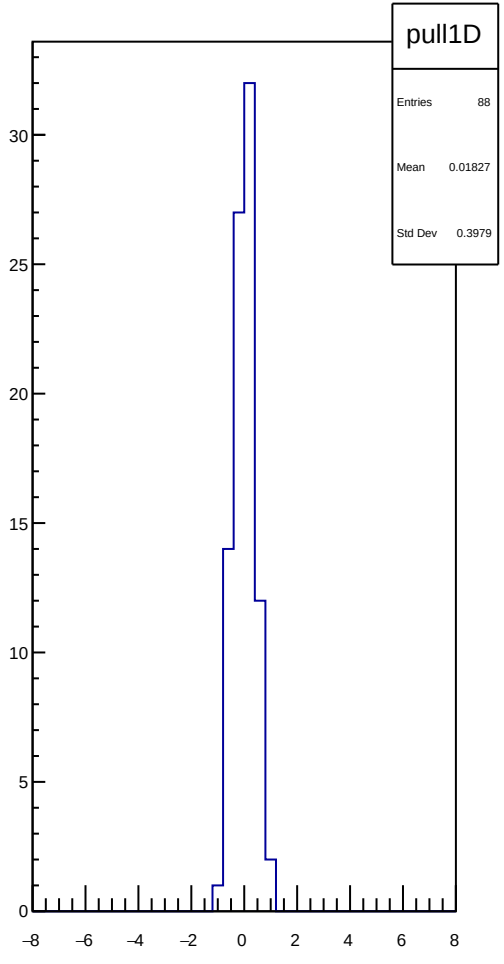

pull1D
Entries 88
Mean 0.02912
Std Dev 4.032

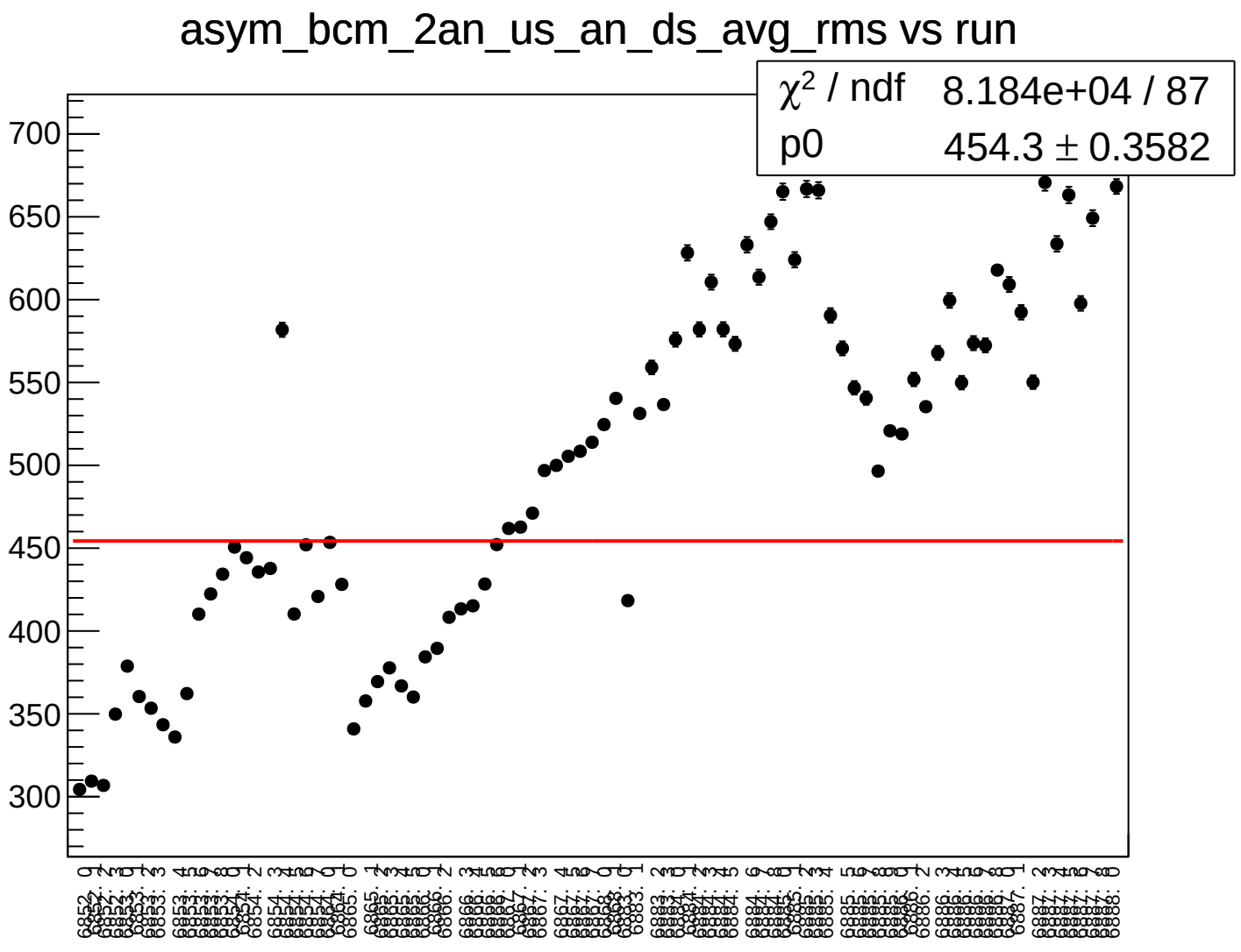

asym_bpm1i04WS_rms vs run
χ^2 / ndf 2.193e+04 / 87
p0 102.5 ± 0.07932
350
300
250
200
150
100

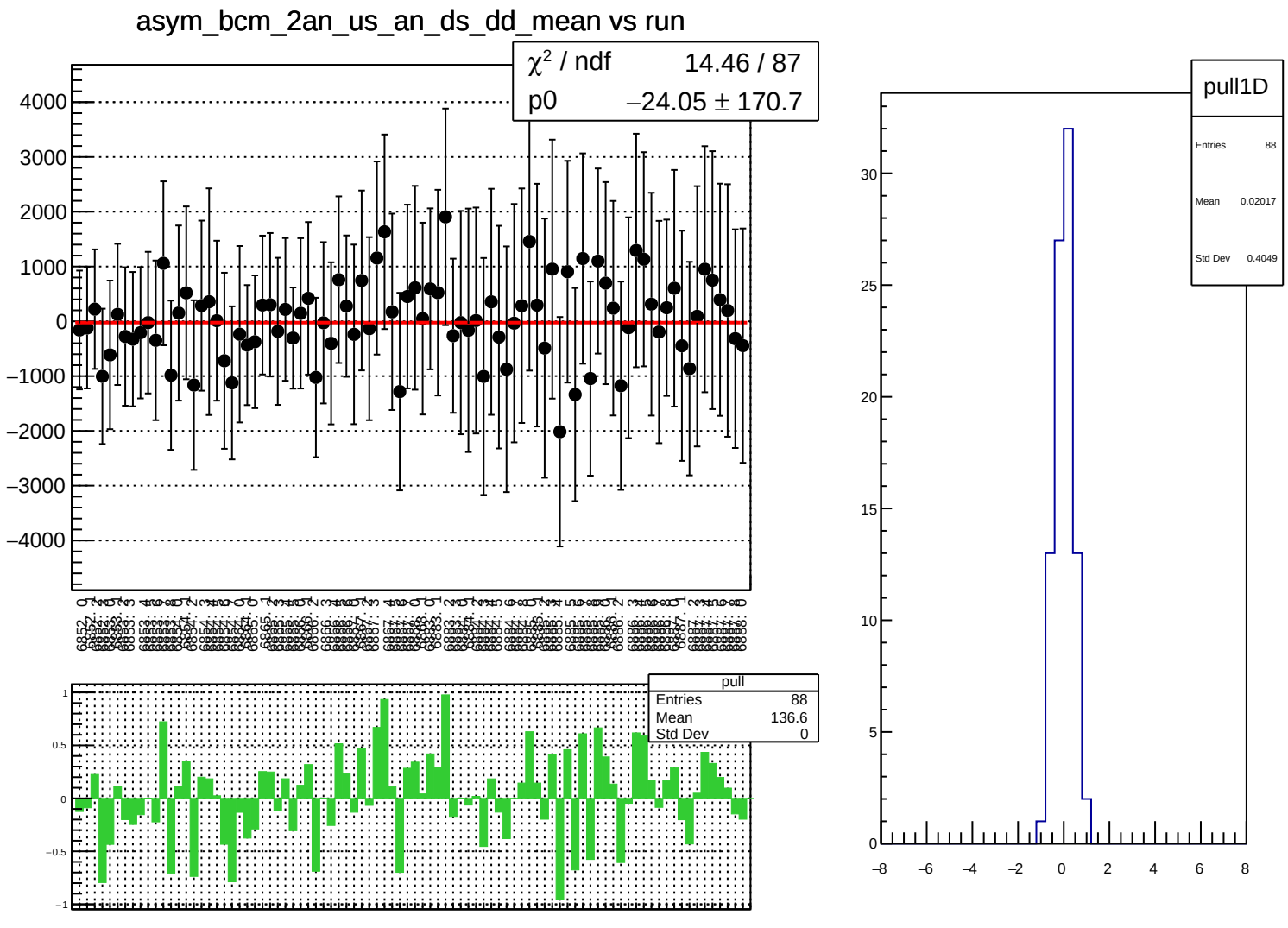

asym_bpm1i06WS_mean vs run
χ² / ndf 1046 / 87
p0 −193.2 ± 183.4
pull
Entries 88
Mean 78.94
Std Dev 60.09
pull1D
Entries 88
Mean −0.3283
Std Dev 3.156

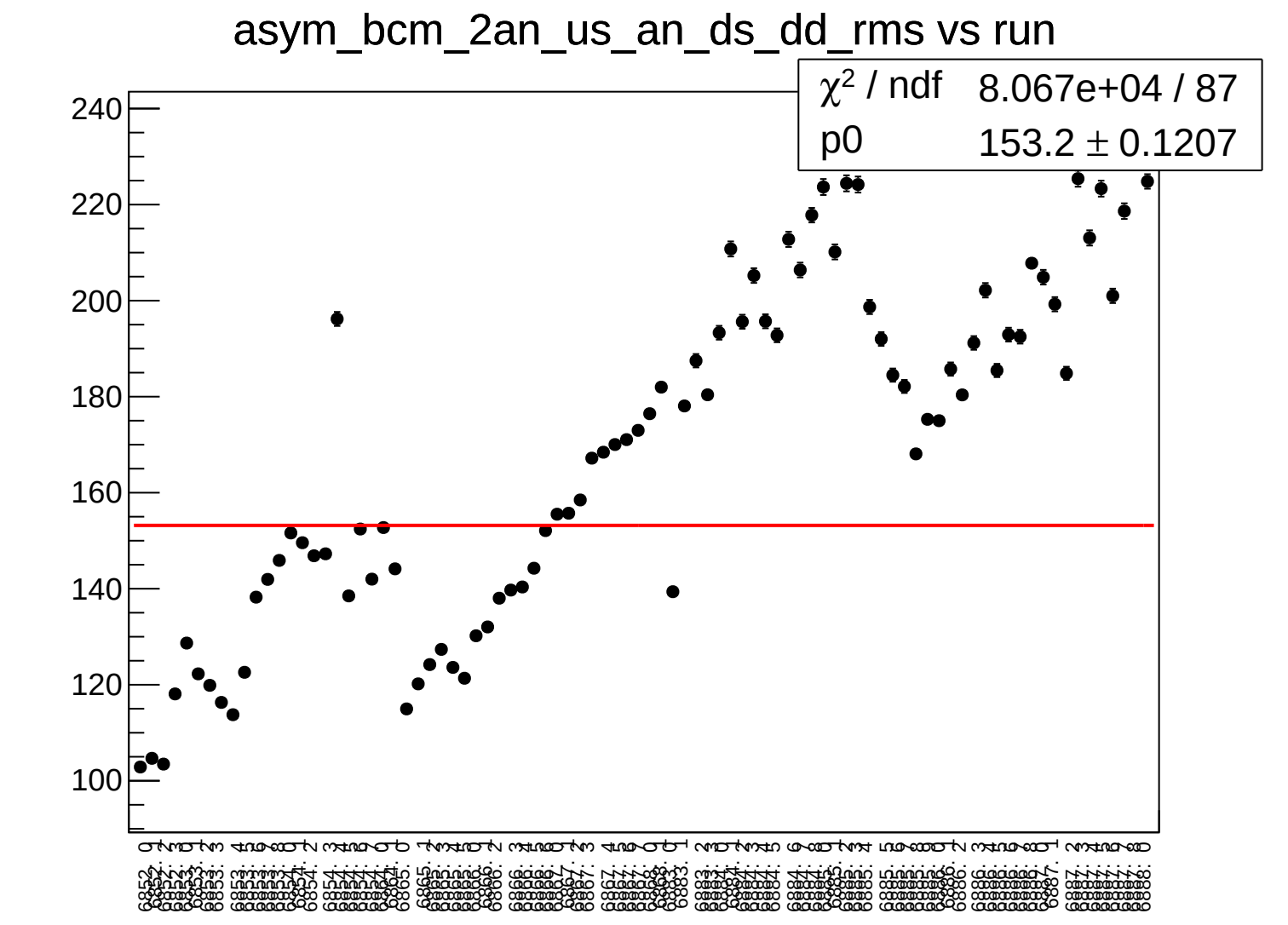

asym_bpm1i06WS_rms vs run
χ^2 / ndf 9.148e+04 / 87
p0 164 ± 0.1297
450
400
350
300
250
200
150
100

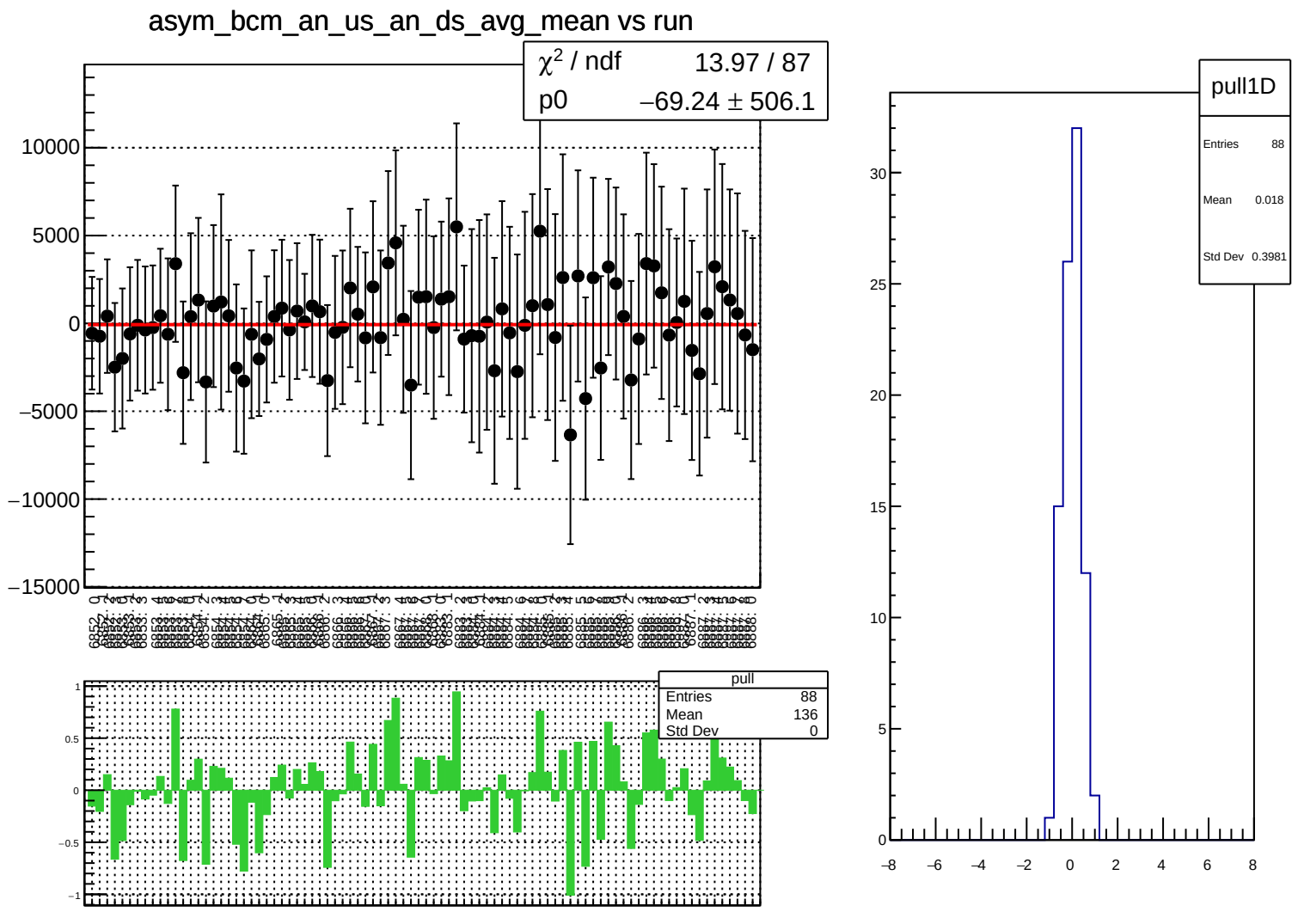

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 13.96 / 87
p0 −69.71 ± 506.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 136
Std Dev 0
1
0.5
0
−0.5
−1

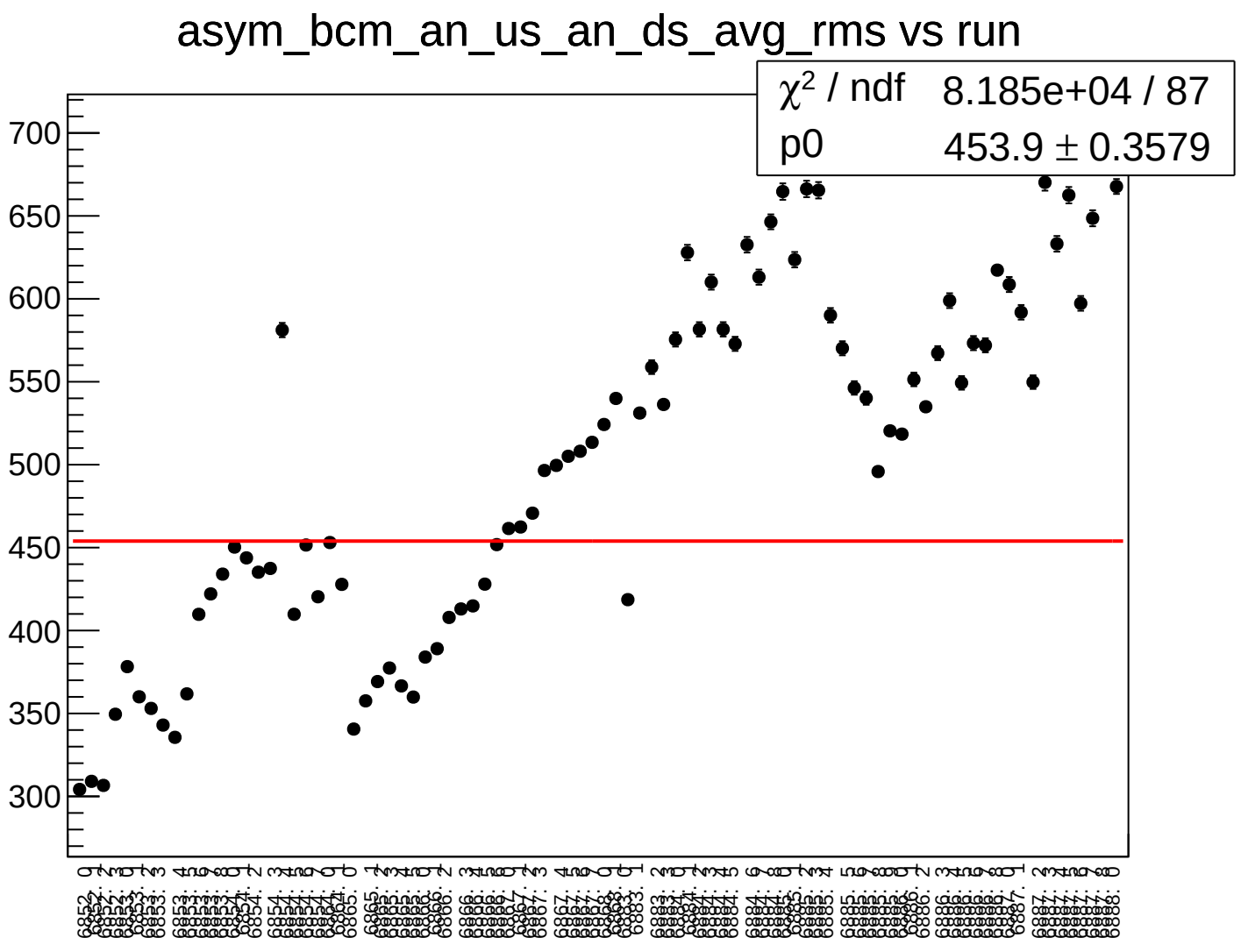

pull1D
Entries 88
Mean 0.01827
Std Dev 0.3979
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

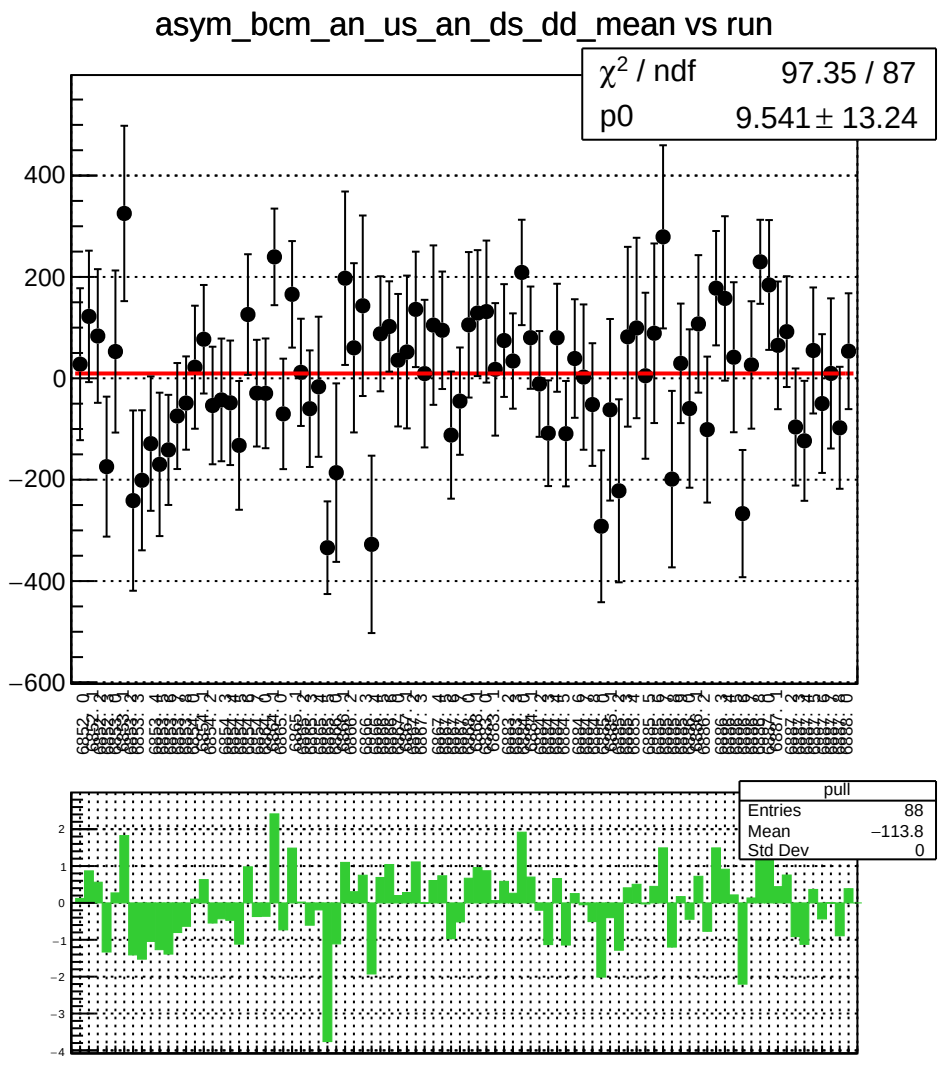

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 8.184e+04 / 87
p0 454.3 ± 0.3582
700
650
600
550
500
450
400
350
300

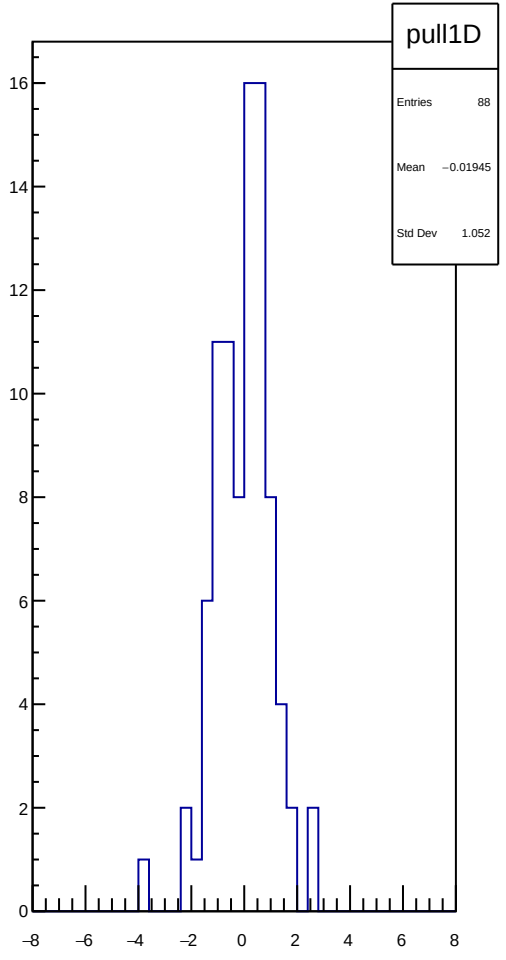

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 14.46 / 87
p0 −24.05 ± 170.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean 136.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.02017
Std Dev 0.4049
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

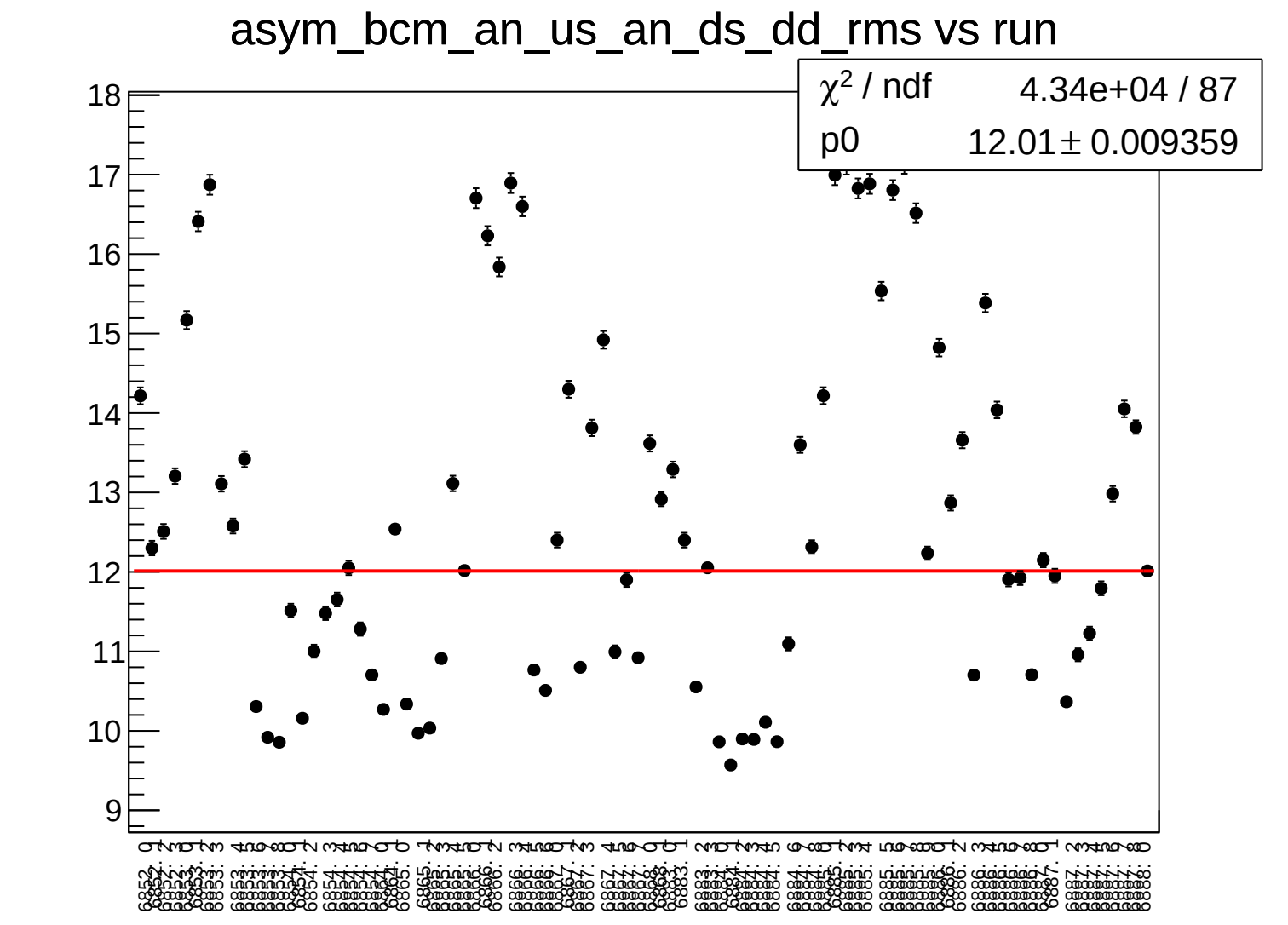

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 8.067e+04 / 87
p0 153.2 ± 0.1207
240
220
200
180
160
140
120
100

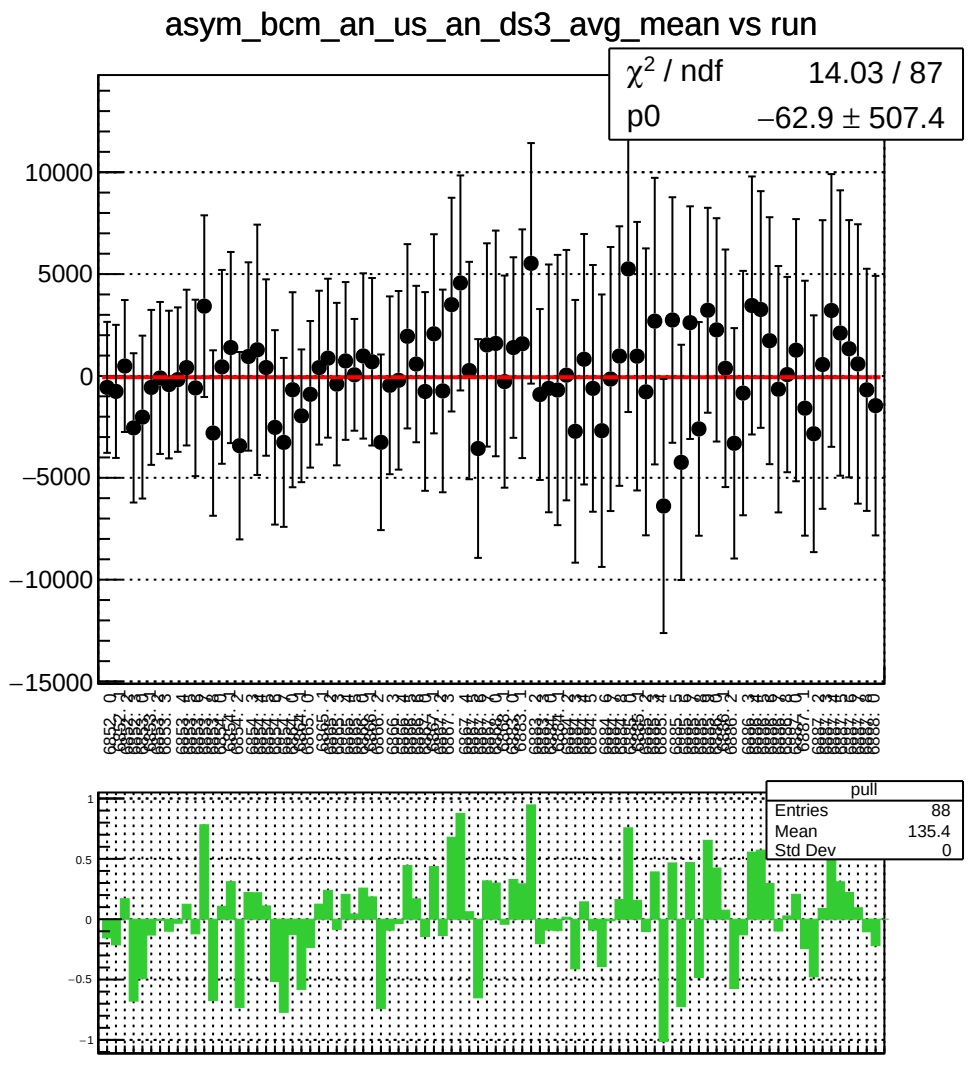

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 13.97 / 87
p0 −69.24 ± 506.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 136
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.018
Std Dev 0.3981
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

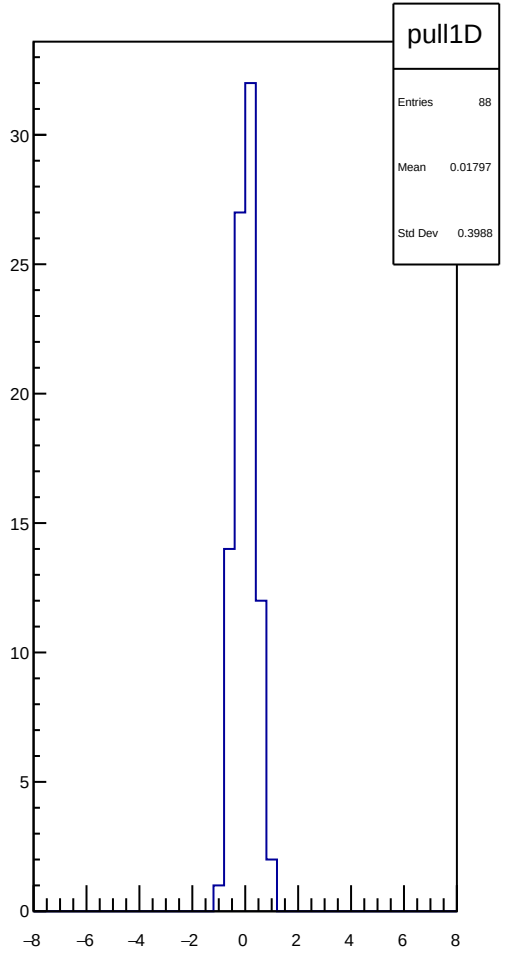

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 8.185e+04 / 87
p0 453.9 ± 0.3579
700
650
600
550
500
450
400
350
300

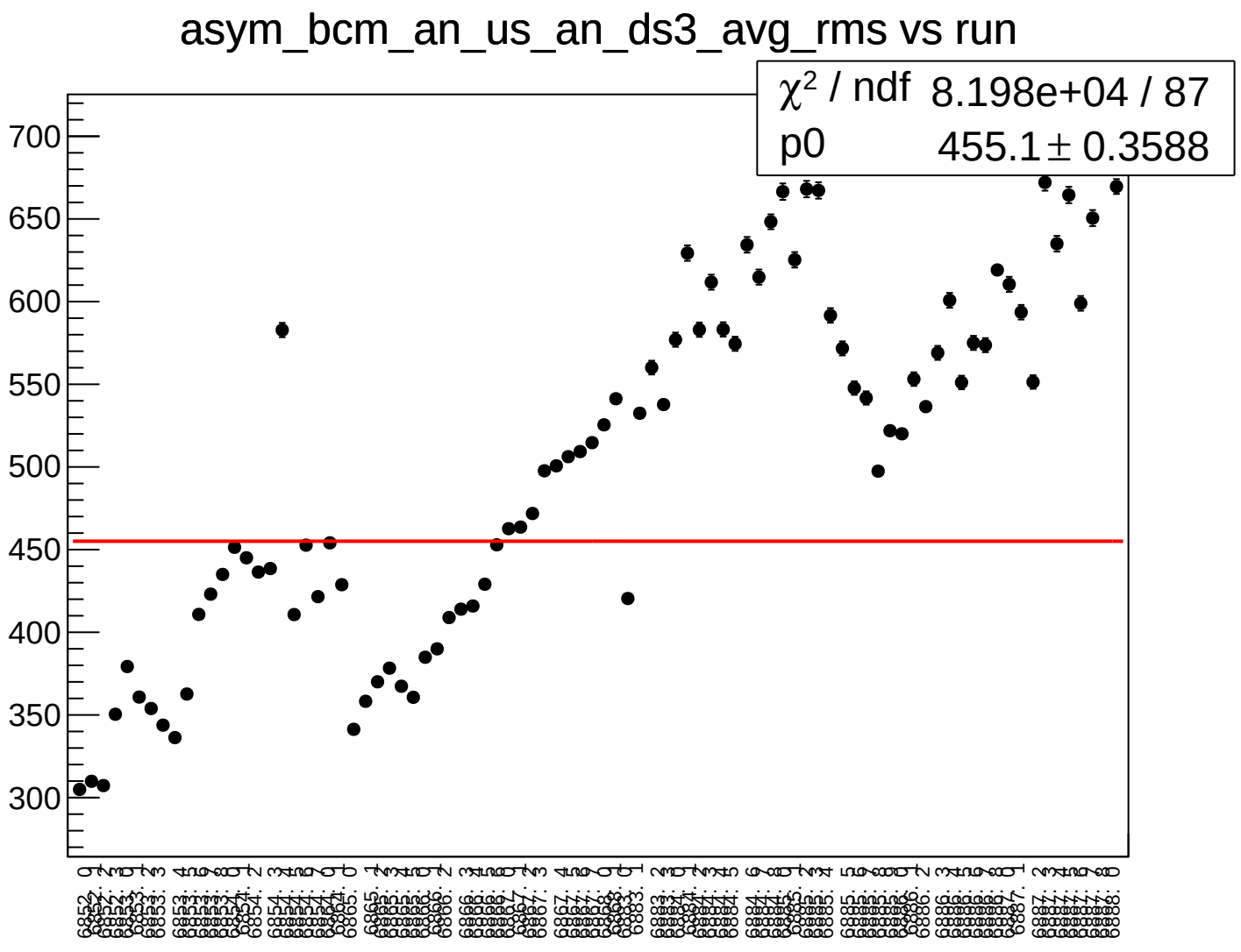

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 97.35 / 87
p0 9.541 ± 13.24
400
200
0
−200
−400
−600
pull
Entries 88
Mean −113.8
Std Dev 0
2
1
0
−1
−2
−3
−4

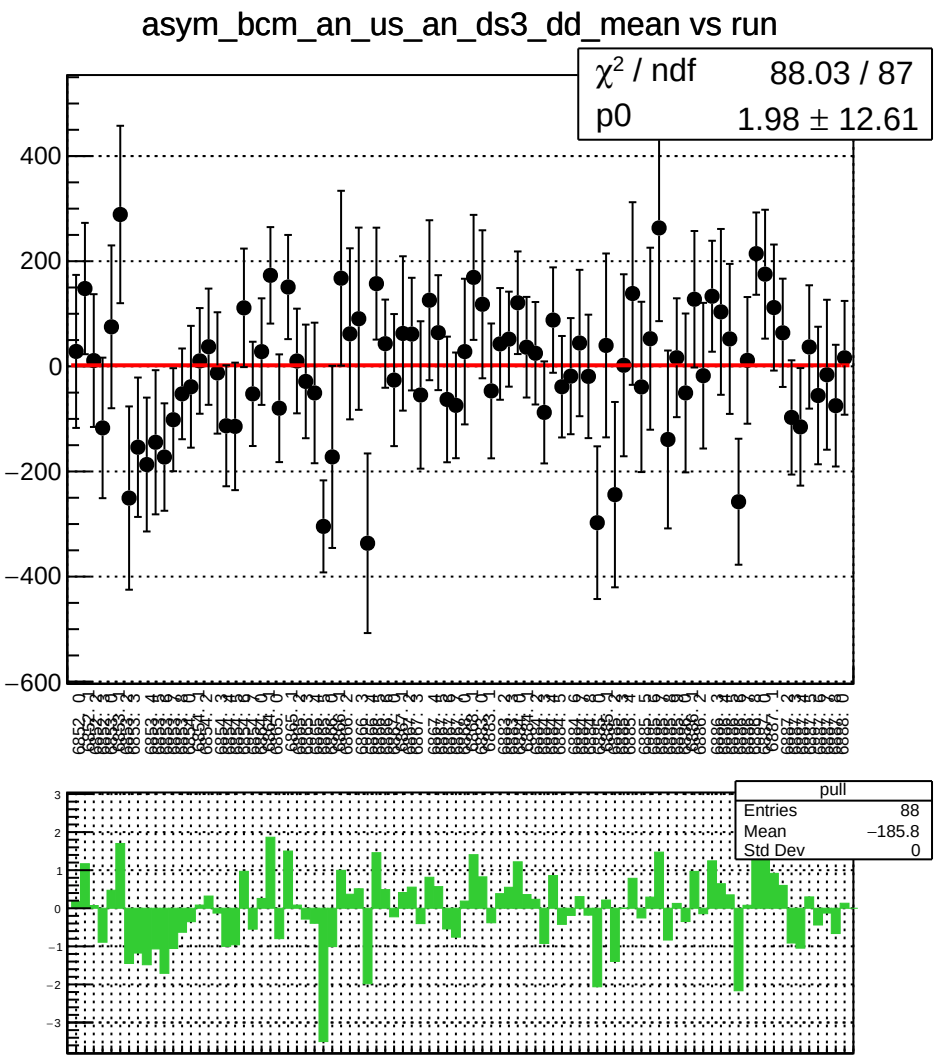

pull1D
Entries 88
Mean −0.01945
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

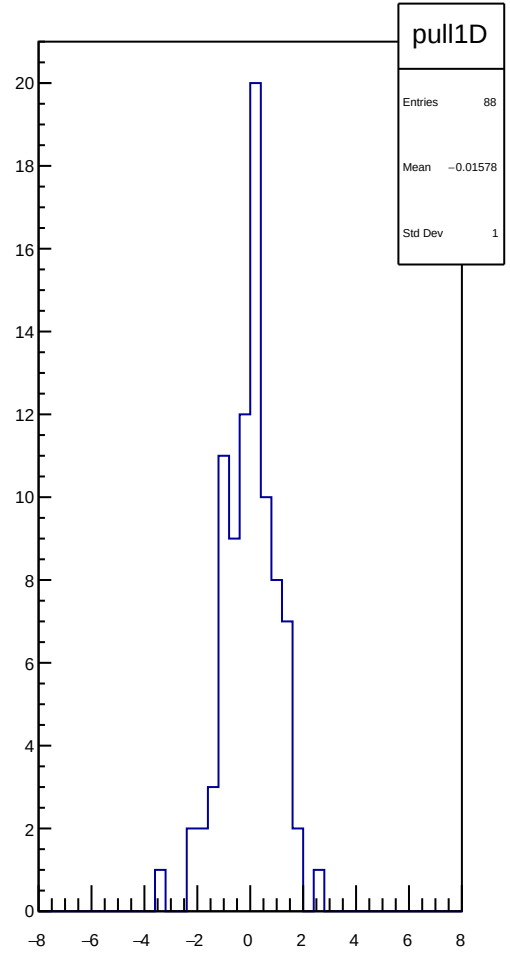

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 4.34e+04 / 87
p0 12.01 ± 0.009359
18
17
16
15
14
13
12
11
10
9

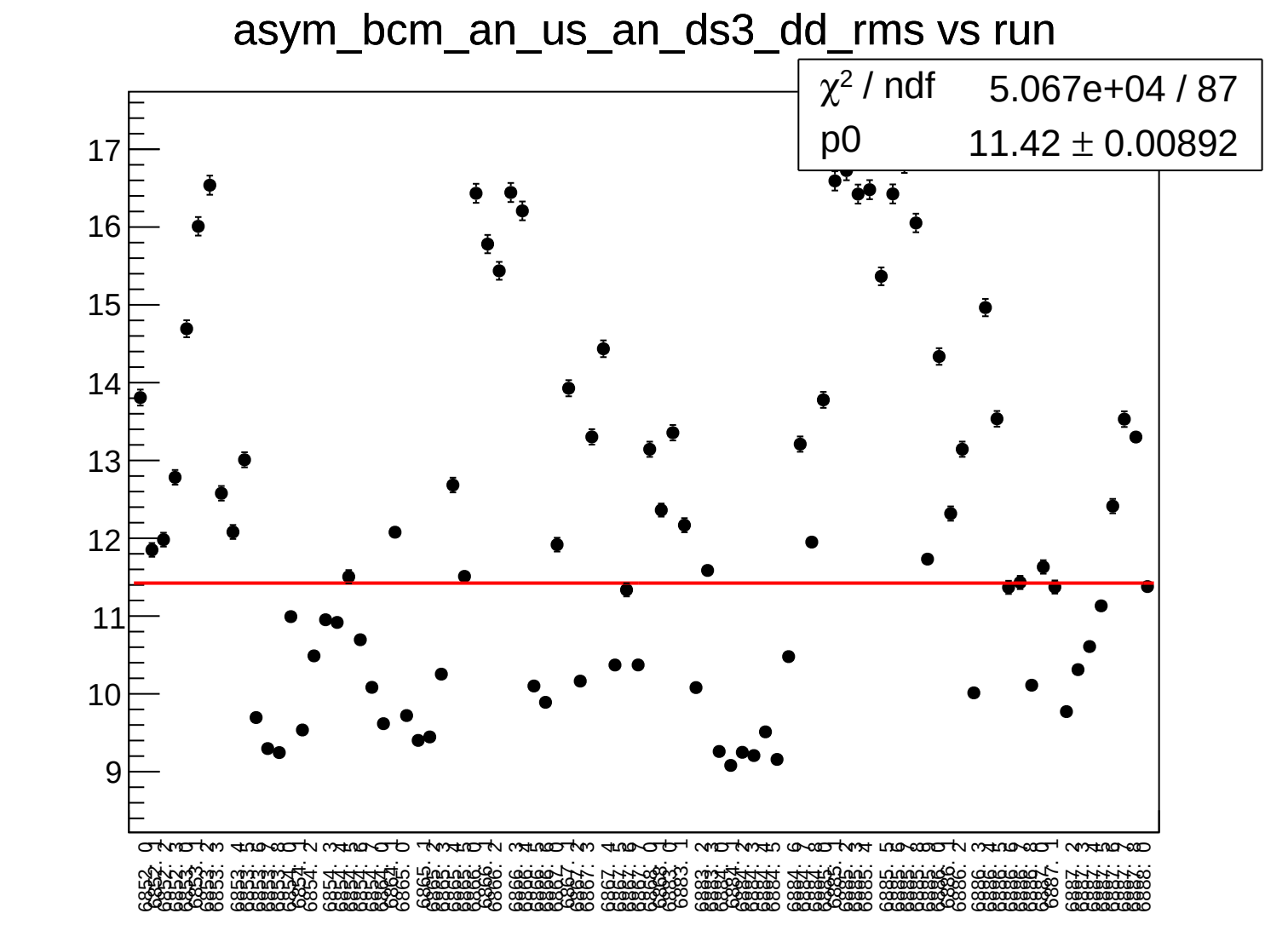

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 14.03 / 87
p0 −62.9 ± 507.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 135.4
Std Dev 0
1
0.5
0
−0.5
−1

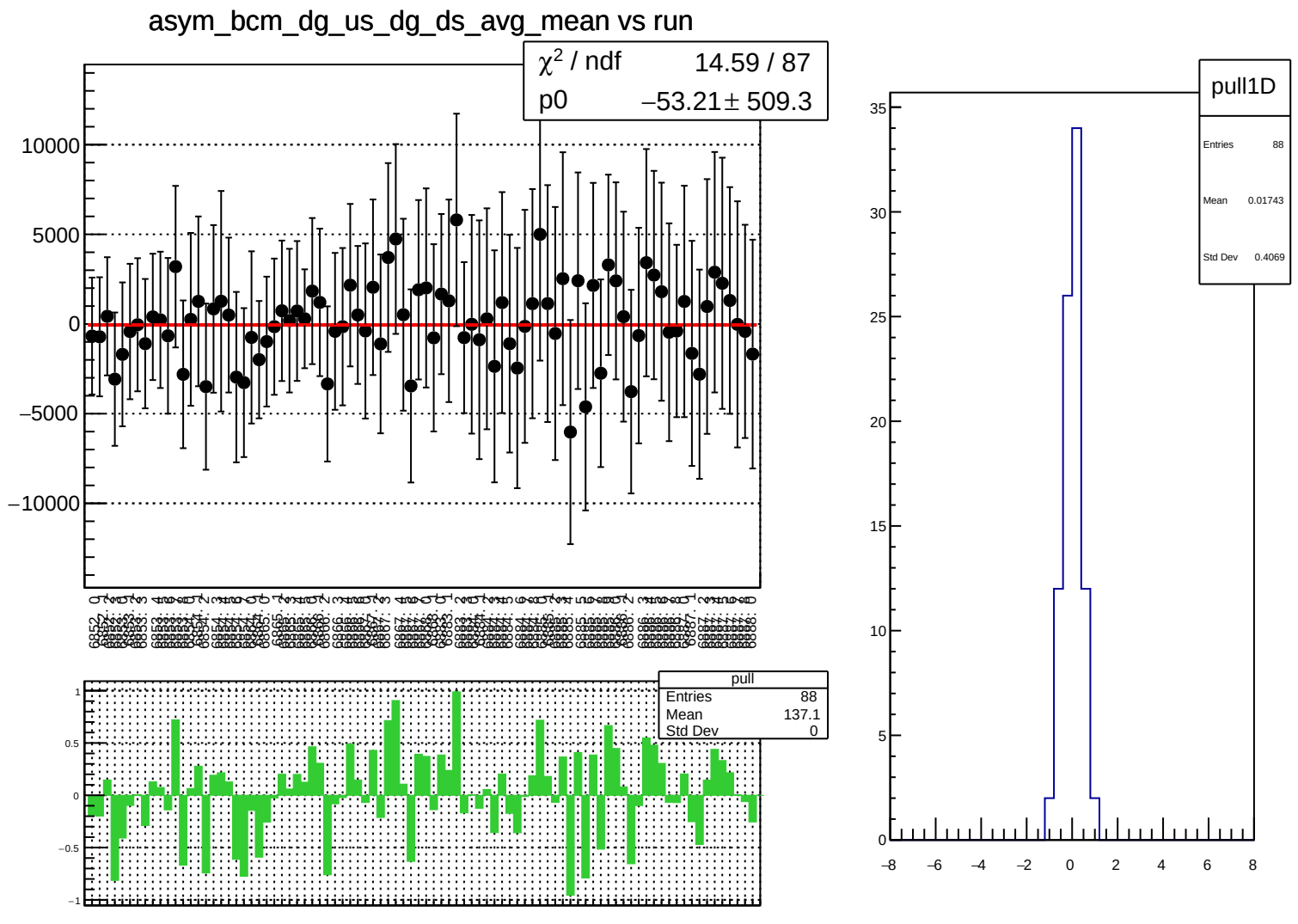

pull1D
Entries 88
Mean 0.01797
Std Dev 0.3988
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

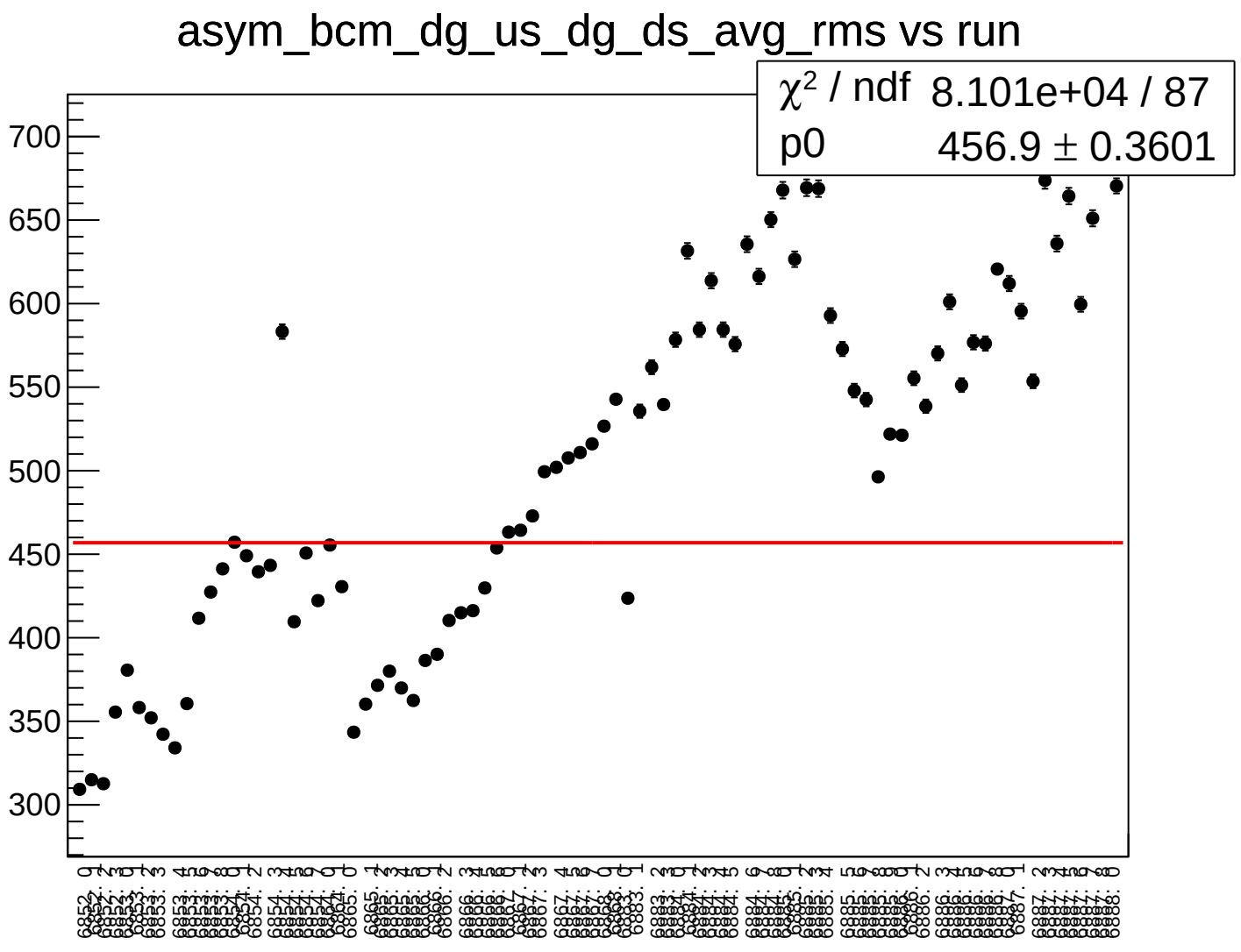

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 8.198e+04 / 87
p0 455.1 ± 0.3588
700
650
600
550
500
450
400
350
300

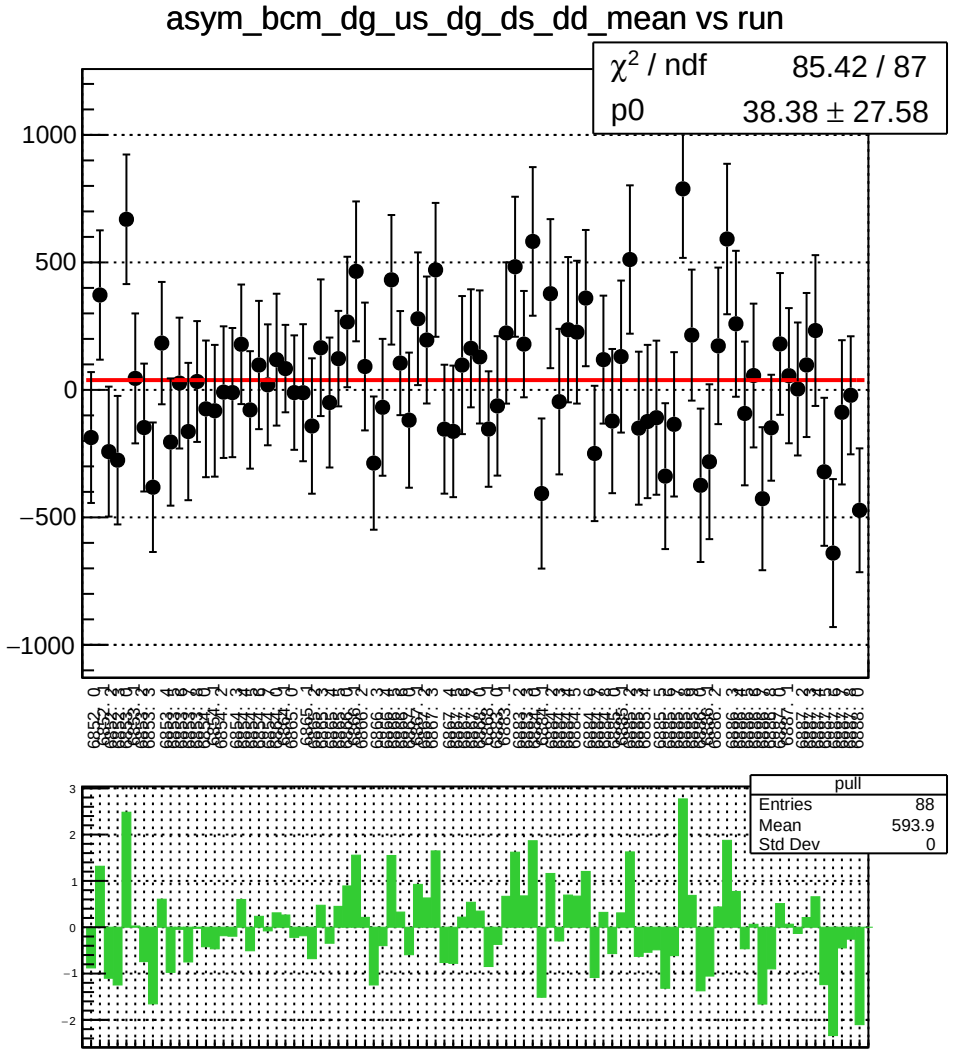

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 88.03 / 87
p0 1.98 ± 12.61
pull
Entries 88
Mean −185.8
Std Dev 0

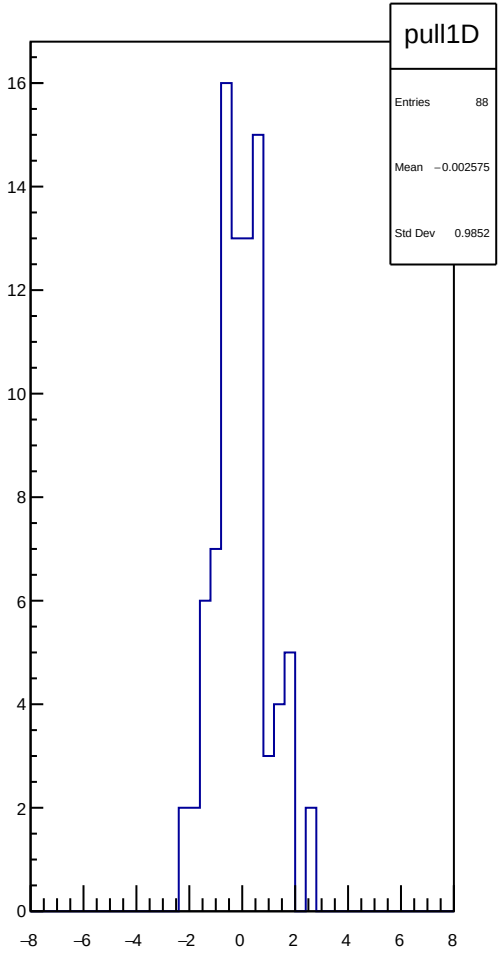

pull1D
Entries 88
Mean −0.01578
Std Dev 1

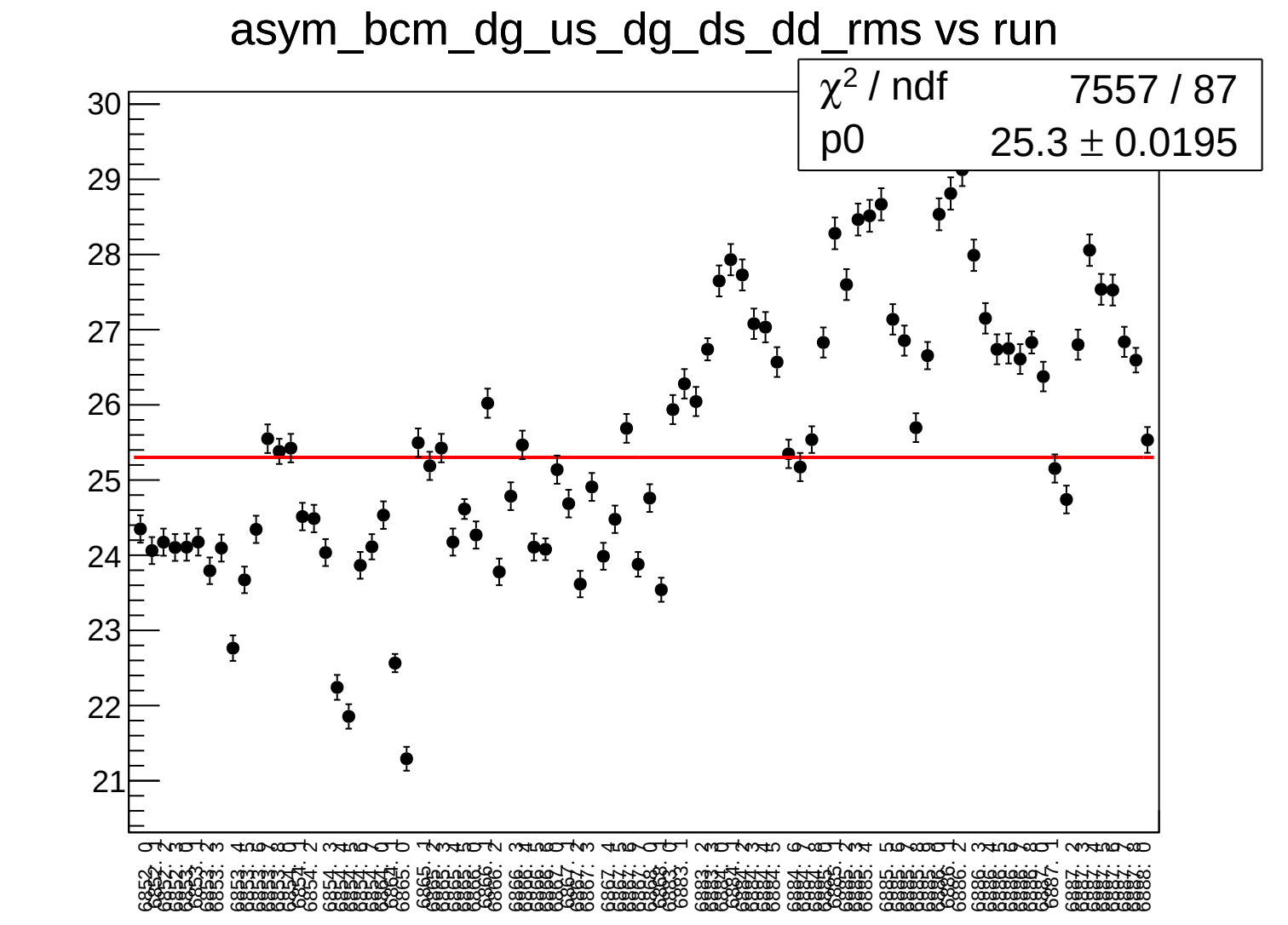

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 5.067e+04 / 87
p0 11.42 ± 0.00892
17
16
15
14
13
12
11
10
9

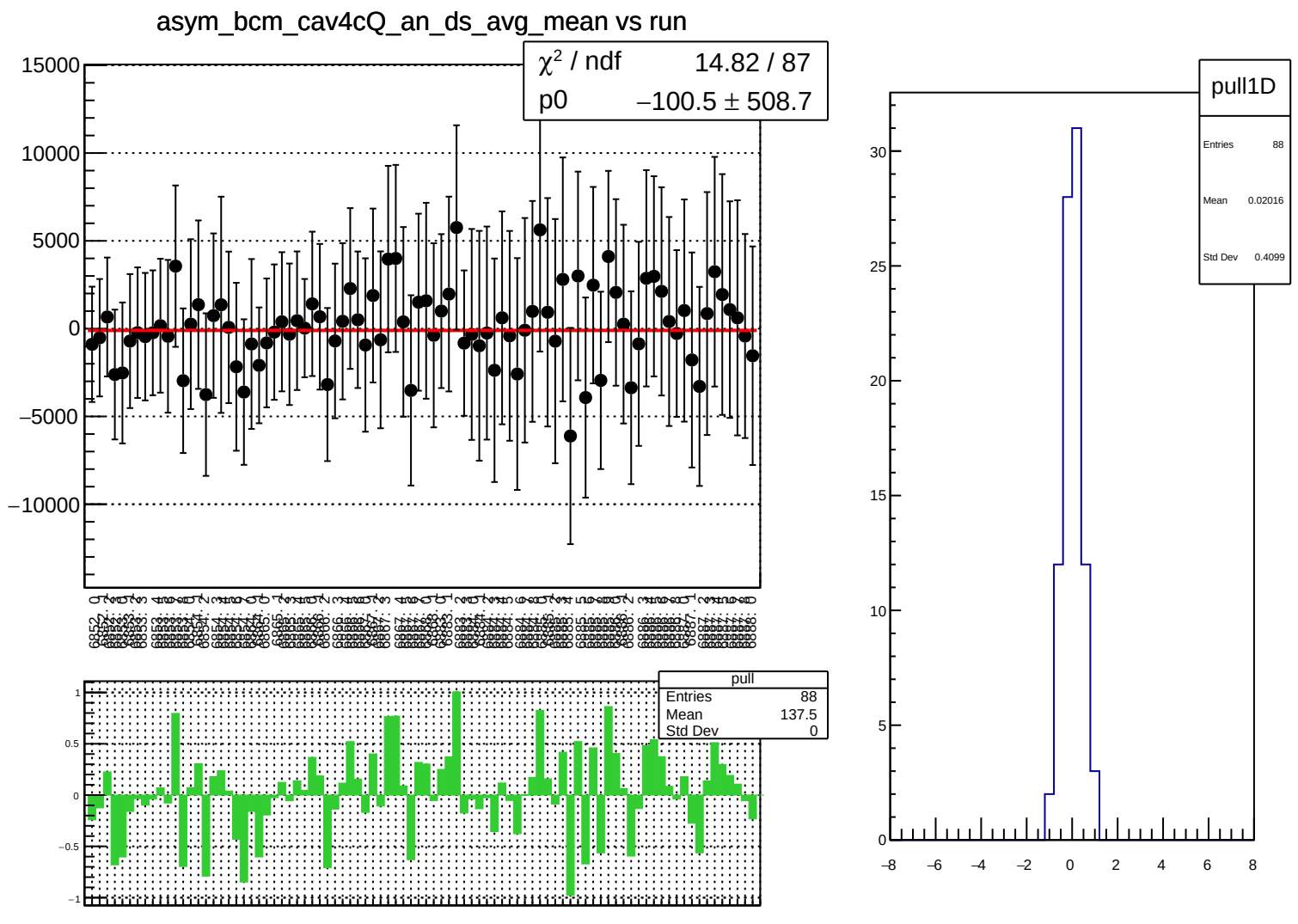

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 14.59 / 87
p0 −53.21 ± 509.3
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 137.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.01743
Std Dev 0.4069
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

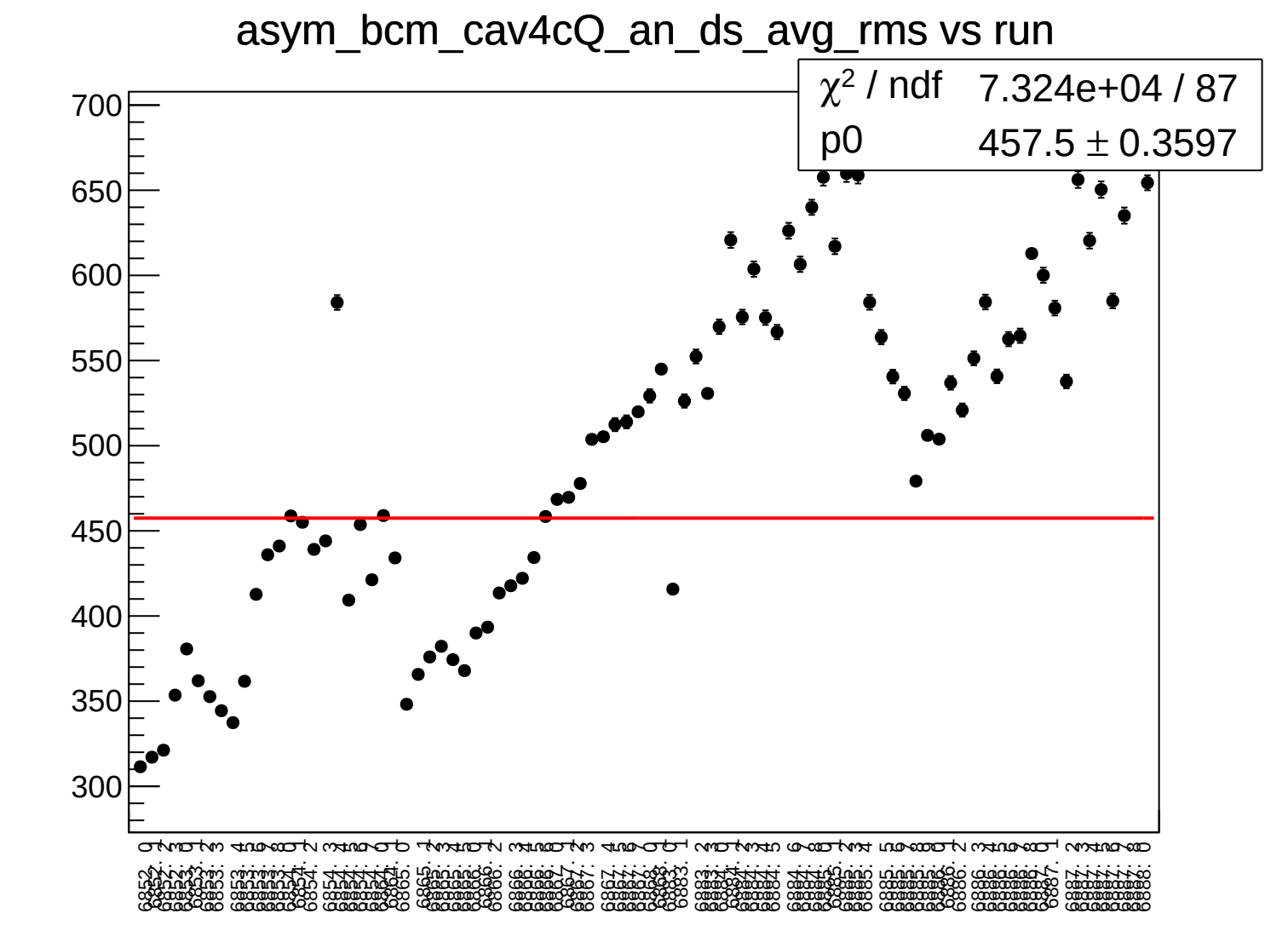

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 8.101e+04 / 87
p0 456.9 ± 0.3601
700
650
600
550
500
450
400
350
300

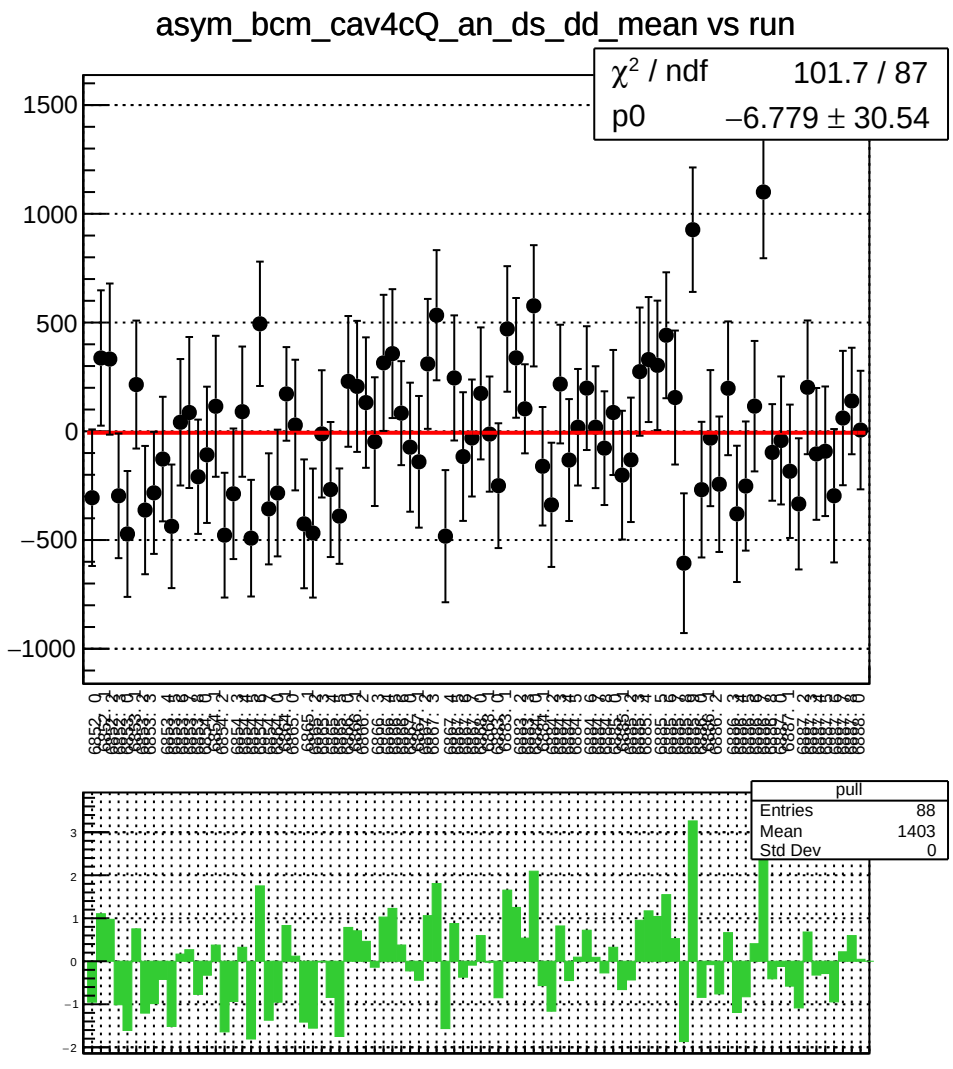

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 85.42 / 87
p0 38.38 ± 27.58
1000
500
0
−500
−1000
pull
Entries 88
Mean 593.9
Std Dev 0
3
2
1
0
−1
−2

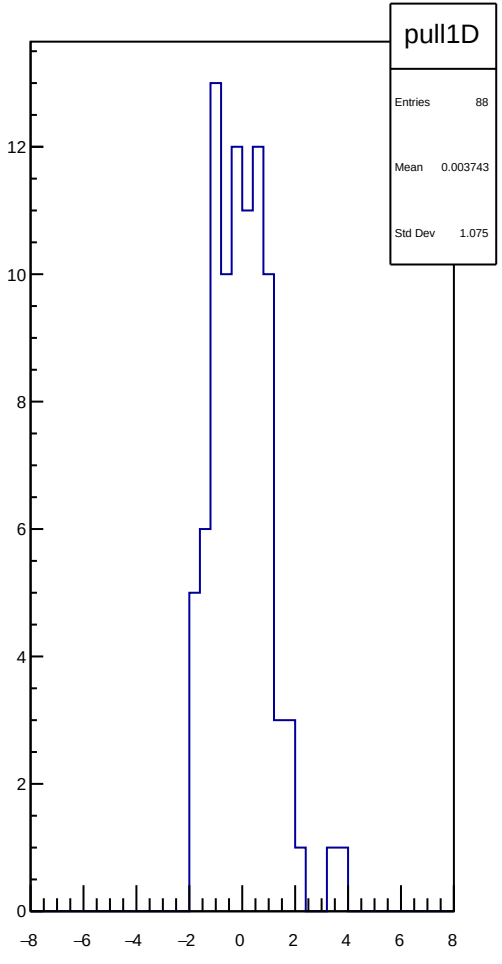

pull1D
Entries 88
Mean −0.002575
Std Dev 0.9852
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

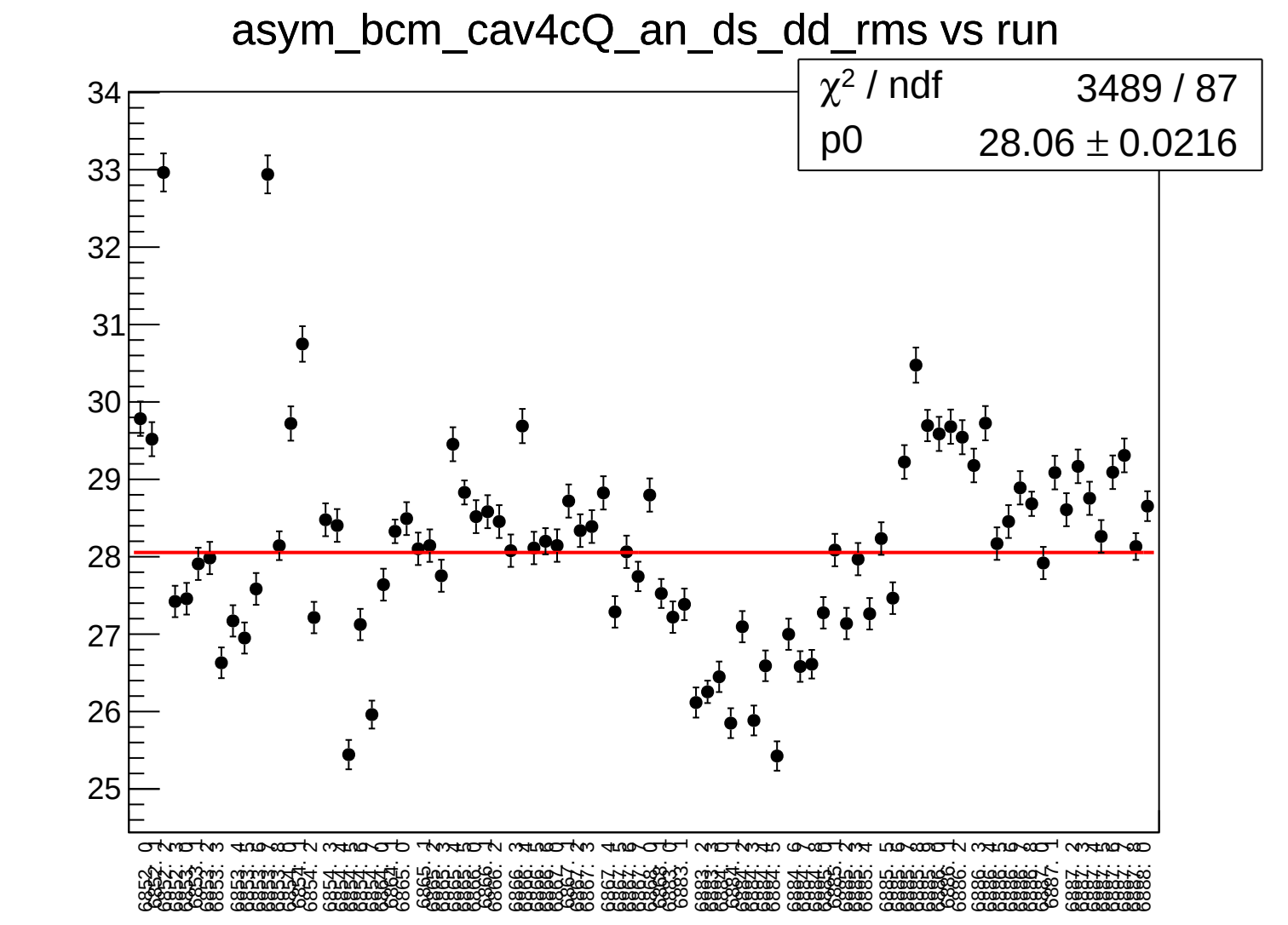

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 7557 / 87
p0 25.3 ± 0.0195
30
29
28
27
26
25
24
23
22
21

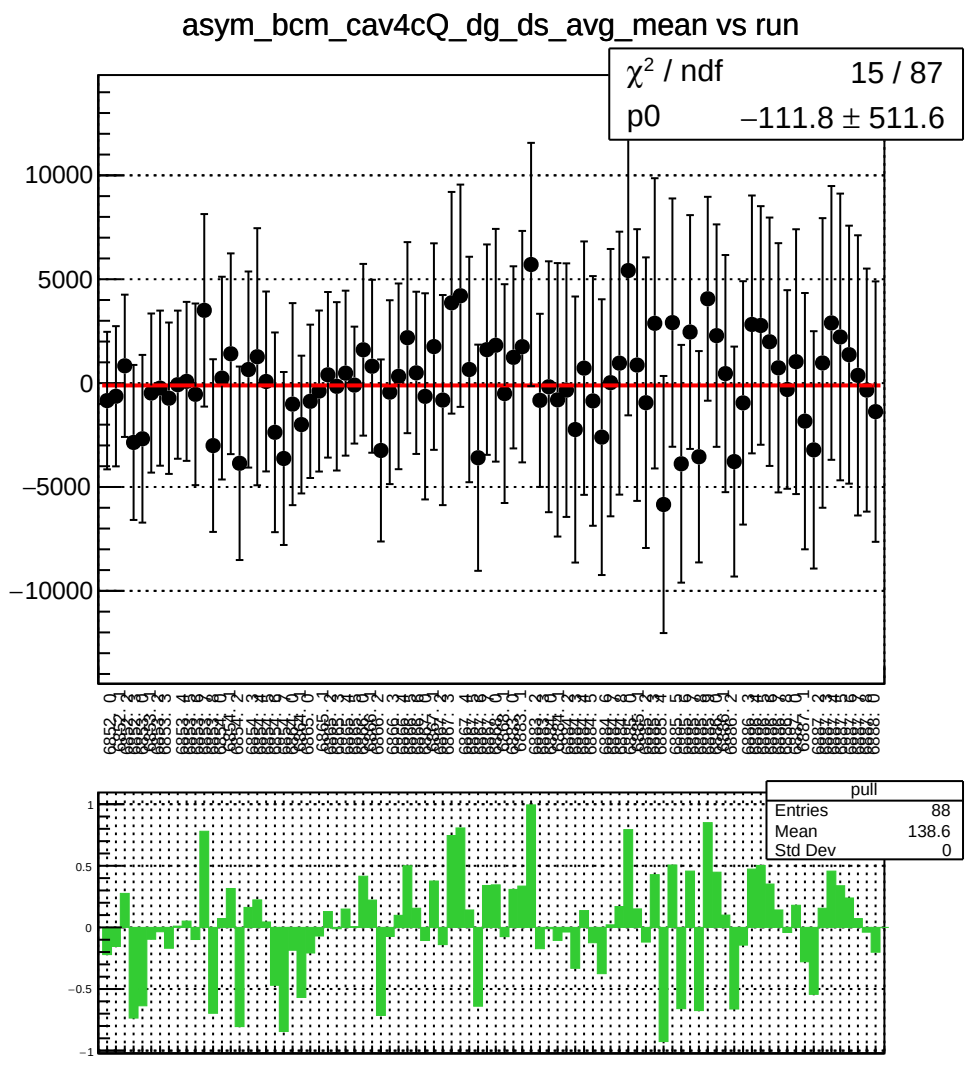

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 14.82 / 87
p0 −100.5 ± 508.7
15000
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 137.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.02016
Std Dev 0.4099
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

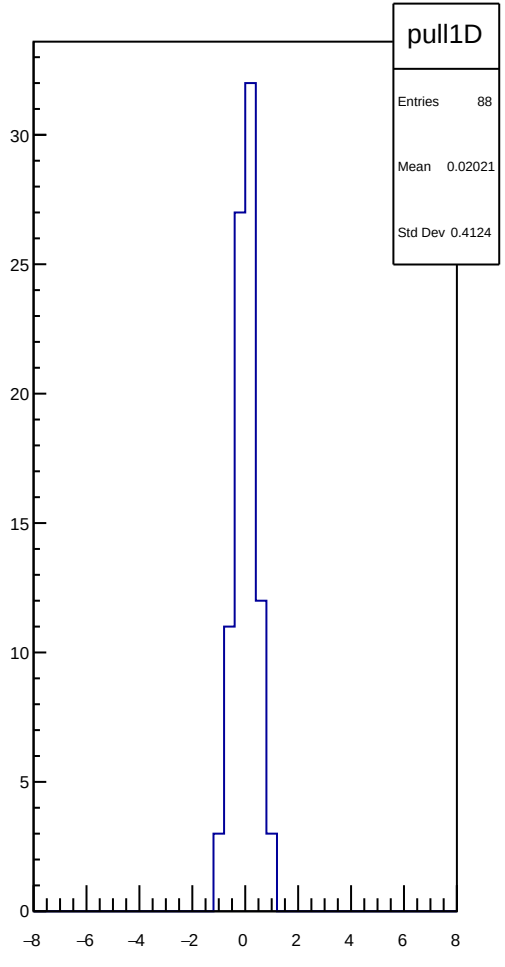

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 7.324e+04 / 87
p0 457.5 ± 0.3597
700
650
600
550
500
450
400
350
300

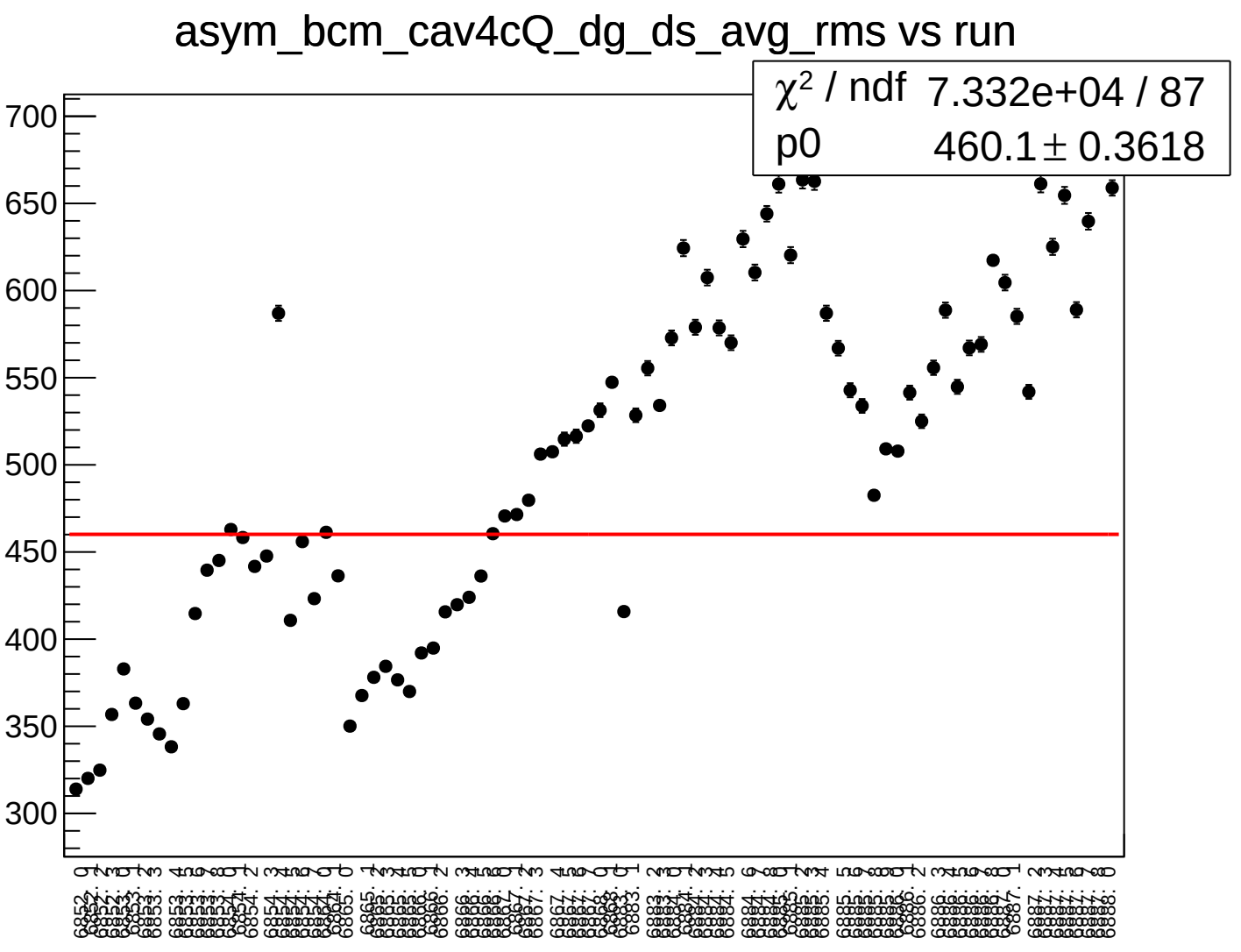

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 101.7 / 87
p0 −6.779 ± 30.54
1500
1000
500
0
−500
−1000
pull
Entries 88
Mean 1403
Std Dev 0
3
2
1
0
−1
−2

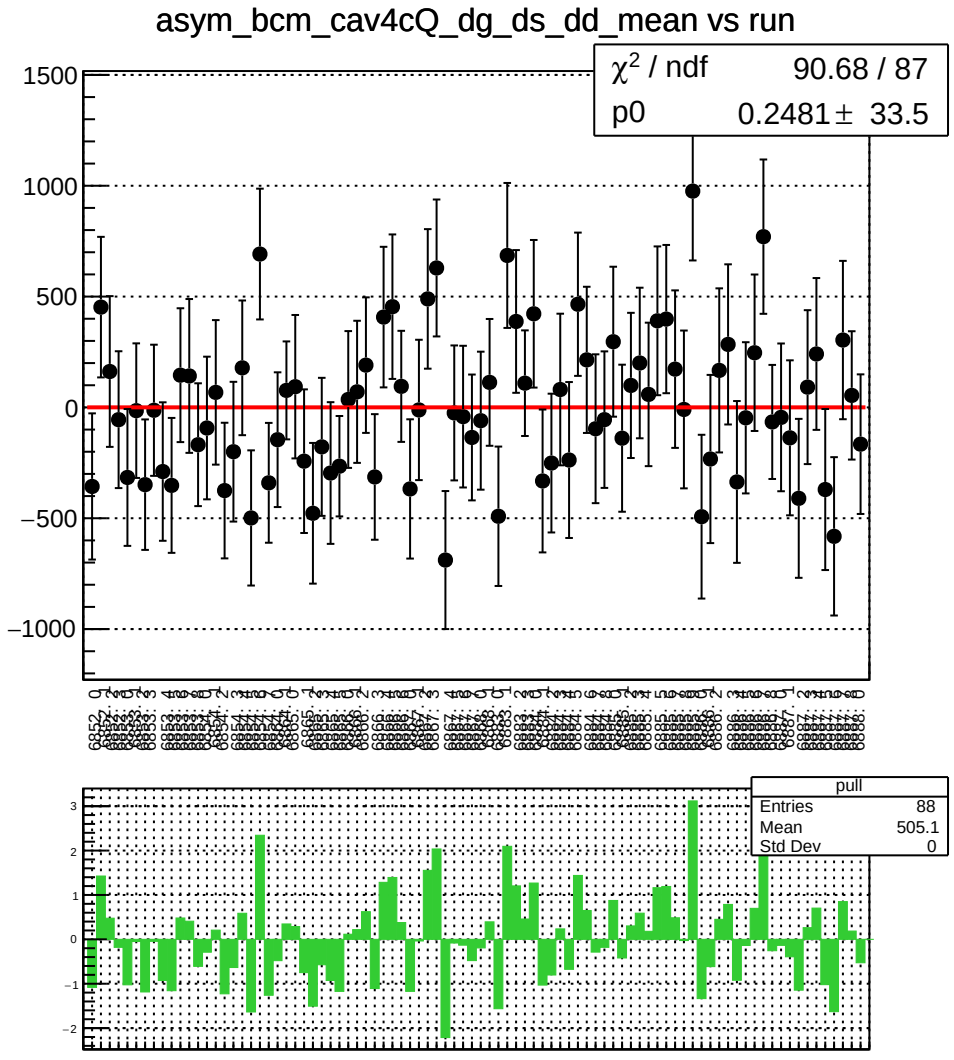

pull1D
Entries 88
Mean 0.003743
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

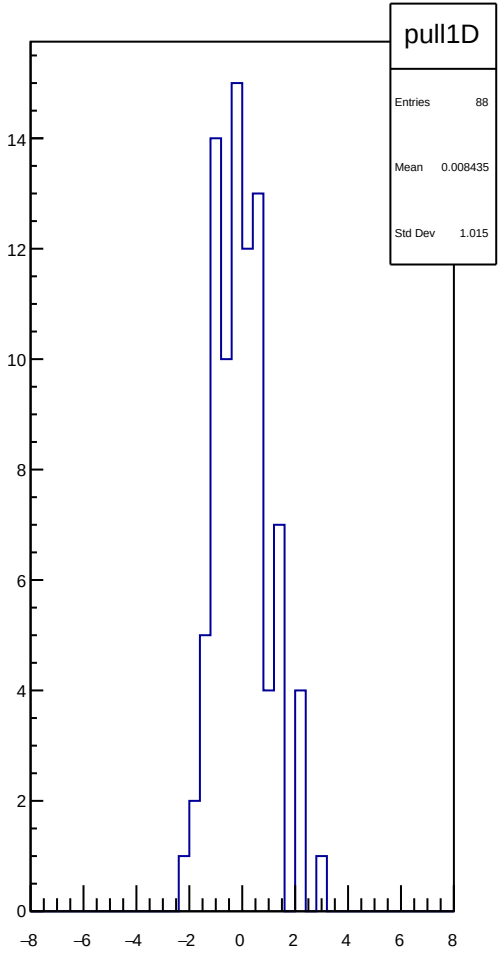

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 3489 / 87
p0 28.06 ± 0.0216
34
33
32
31
30
29
28
27
26
25

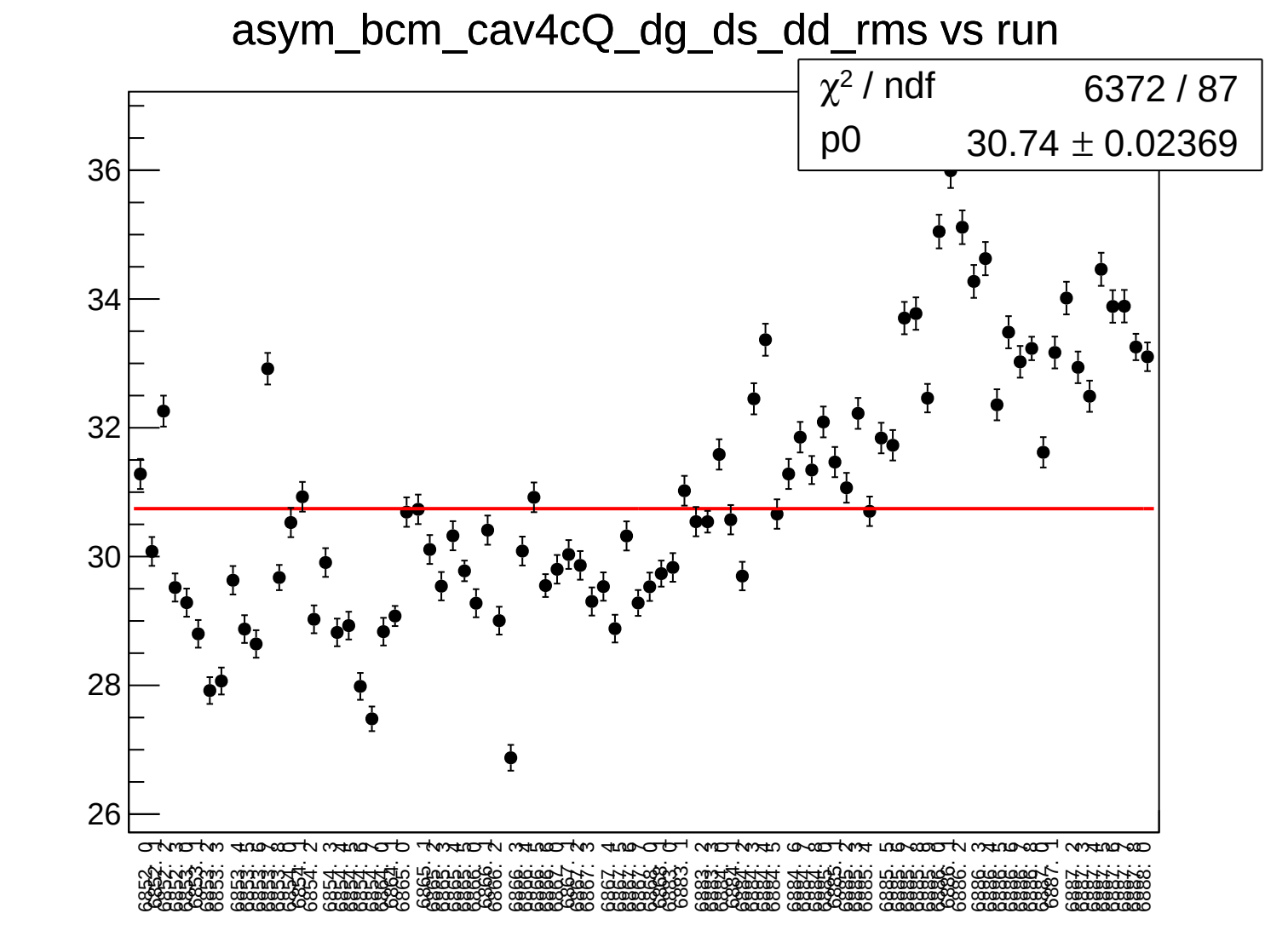

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 15 / 87
p0 −111.8 ± 511.6
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 138.6
Std Dev 0
1
0.5
0
−0.5
−1

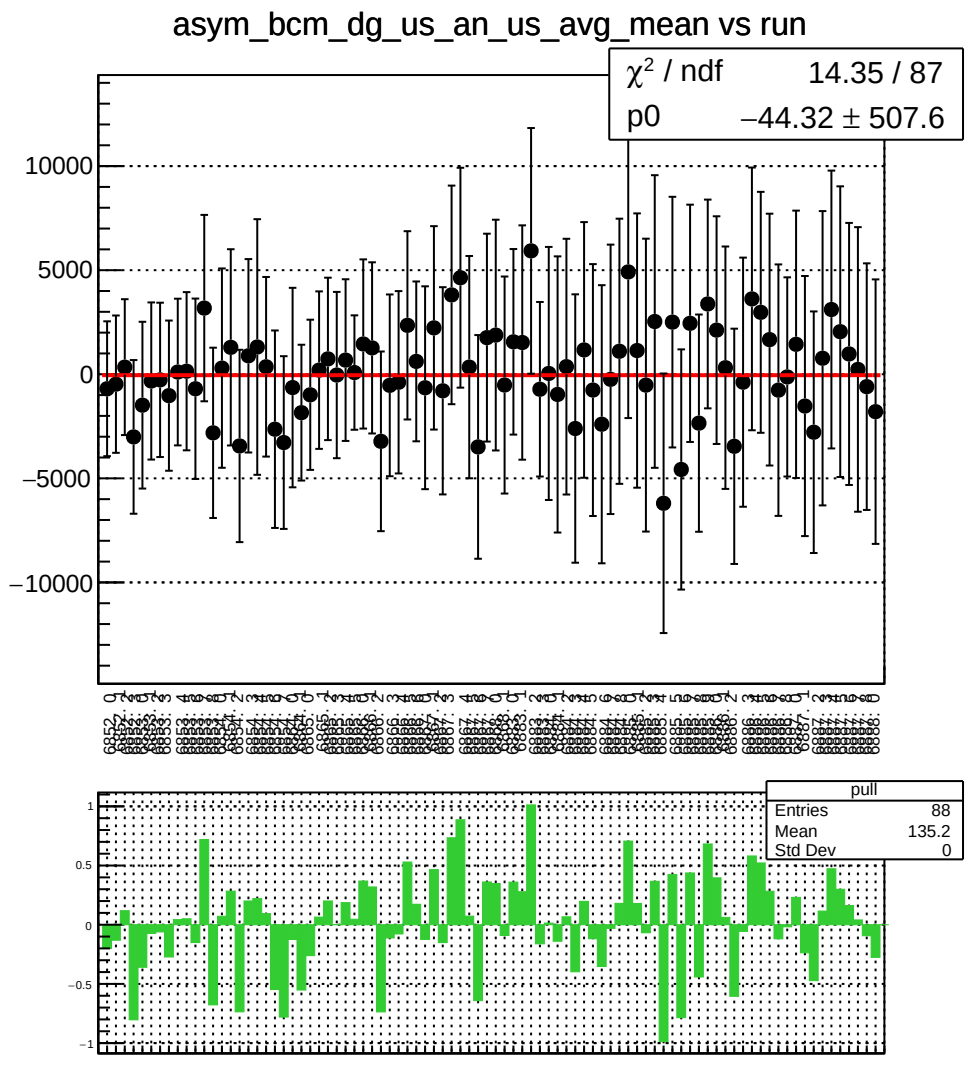

pull1D
Entries 88
Mean 0.02021
Std Dev 0.4124
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

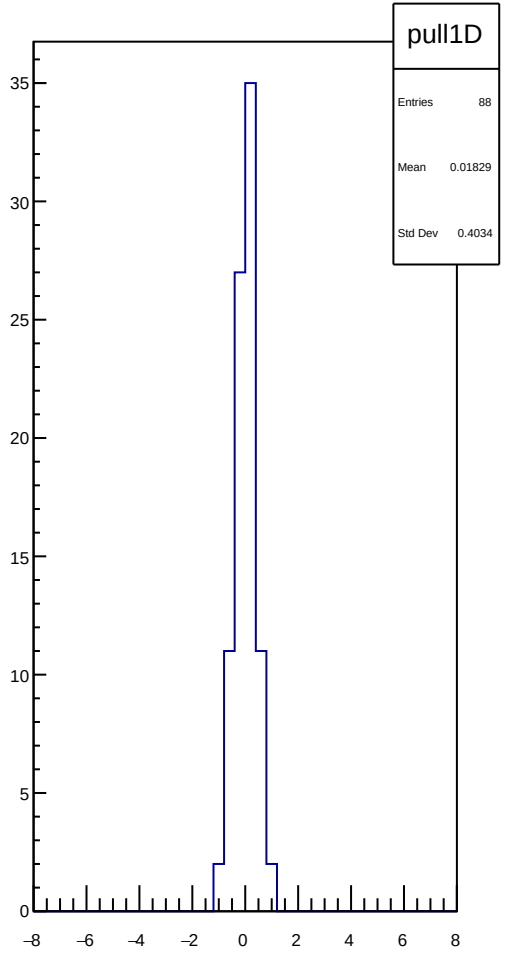

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 7.332e+04 / 87
p0 460.1 ± 0.3618
700
650
600
550
500
450
400
350
300

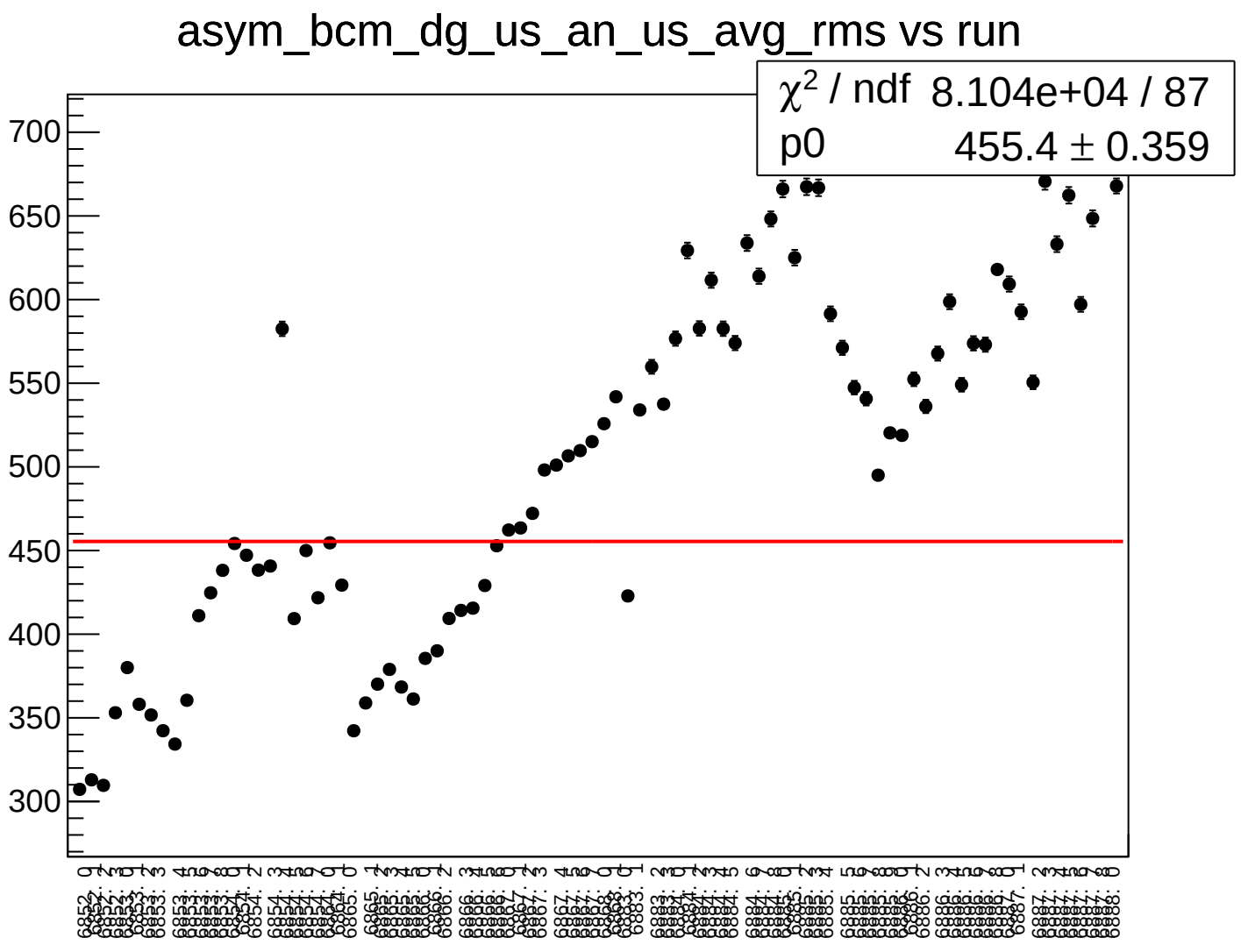

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 90.68 / 87
p0 0.2481 ± 33.5
1500
1000
500
0
−500
−1000
pull
Entries 88
Mean 505.1
Std Dev 0
3
2
1
0
−1
−2

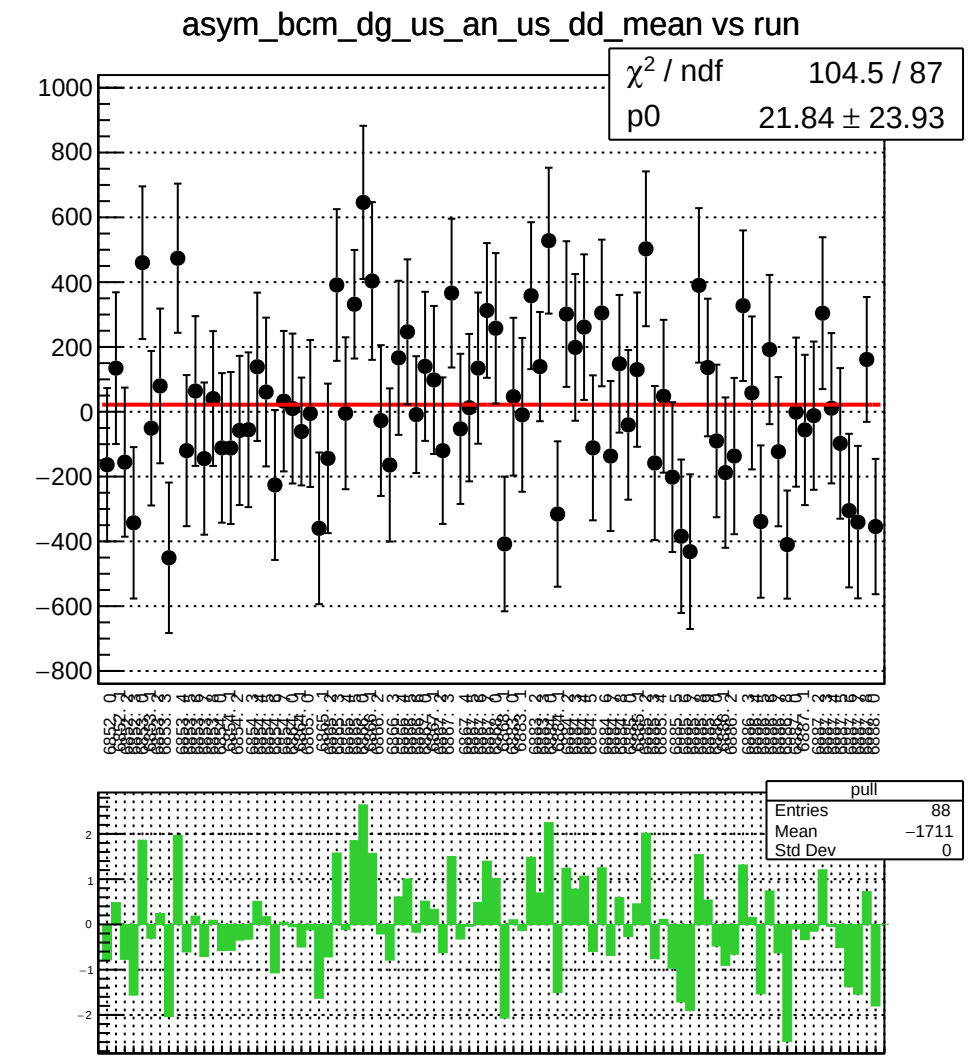

pull1D
Entries 88
Mean 0.008435
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

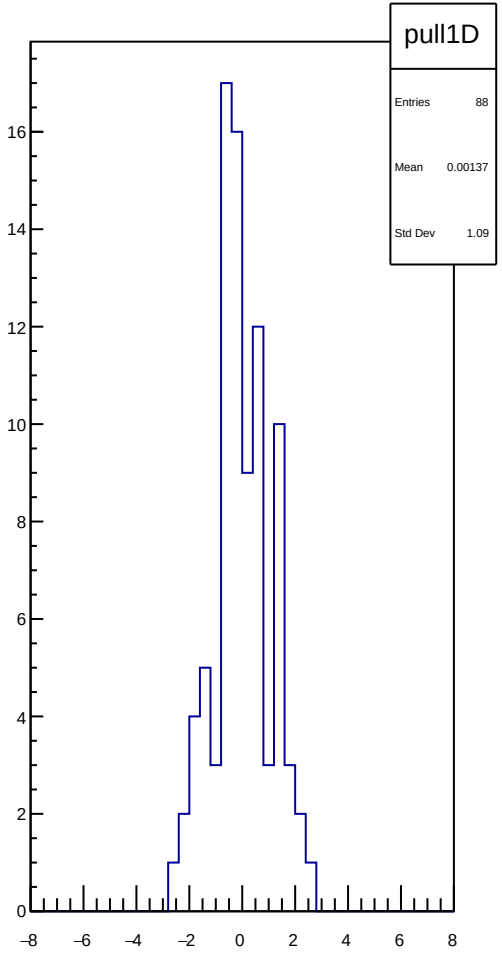

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 6372 / 87
p0 30.74 ± 0.02369
36
34
32
30
28
26

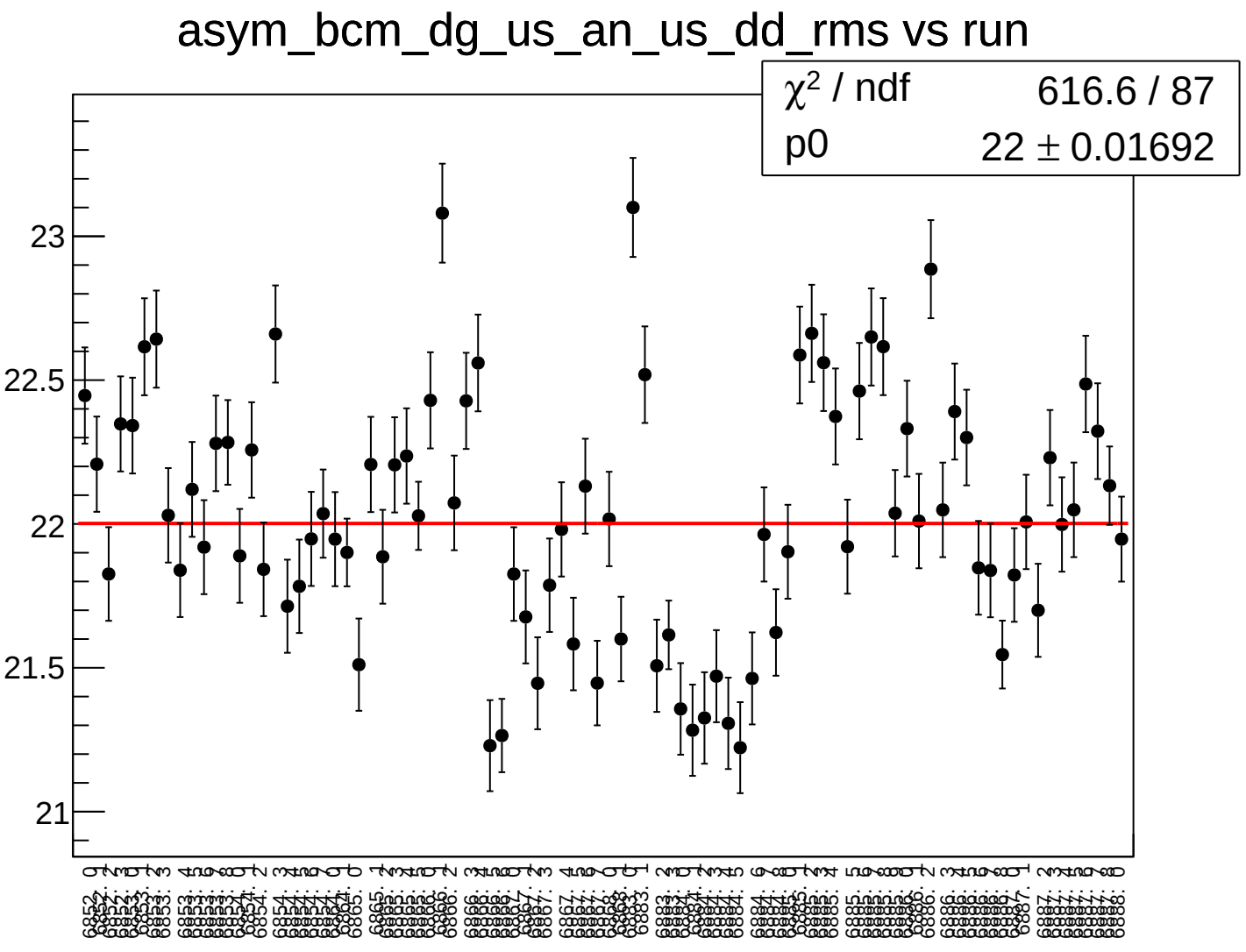

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 14.35 / 87
p0 −44.32 ± 507.6
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 135.2
Std Dev 0
1
0.5
0
−0.5
−1

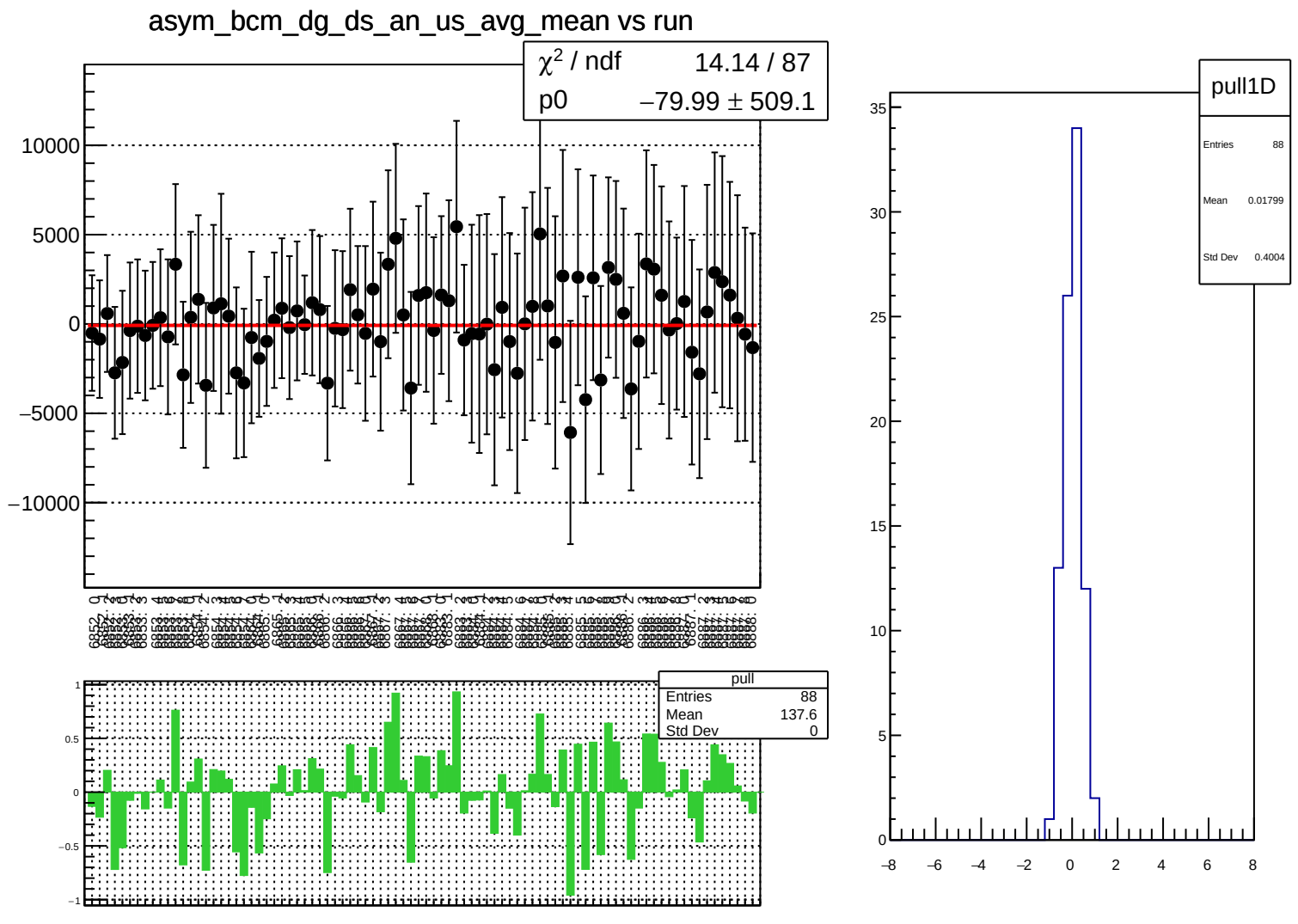

pull1D
Entries 88
Mean 0.01829
Std Dev 0.4034
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

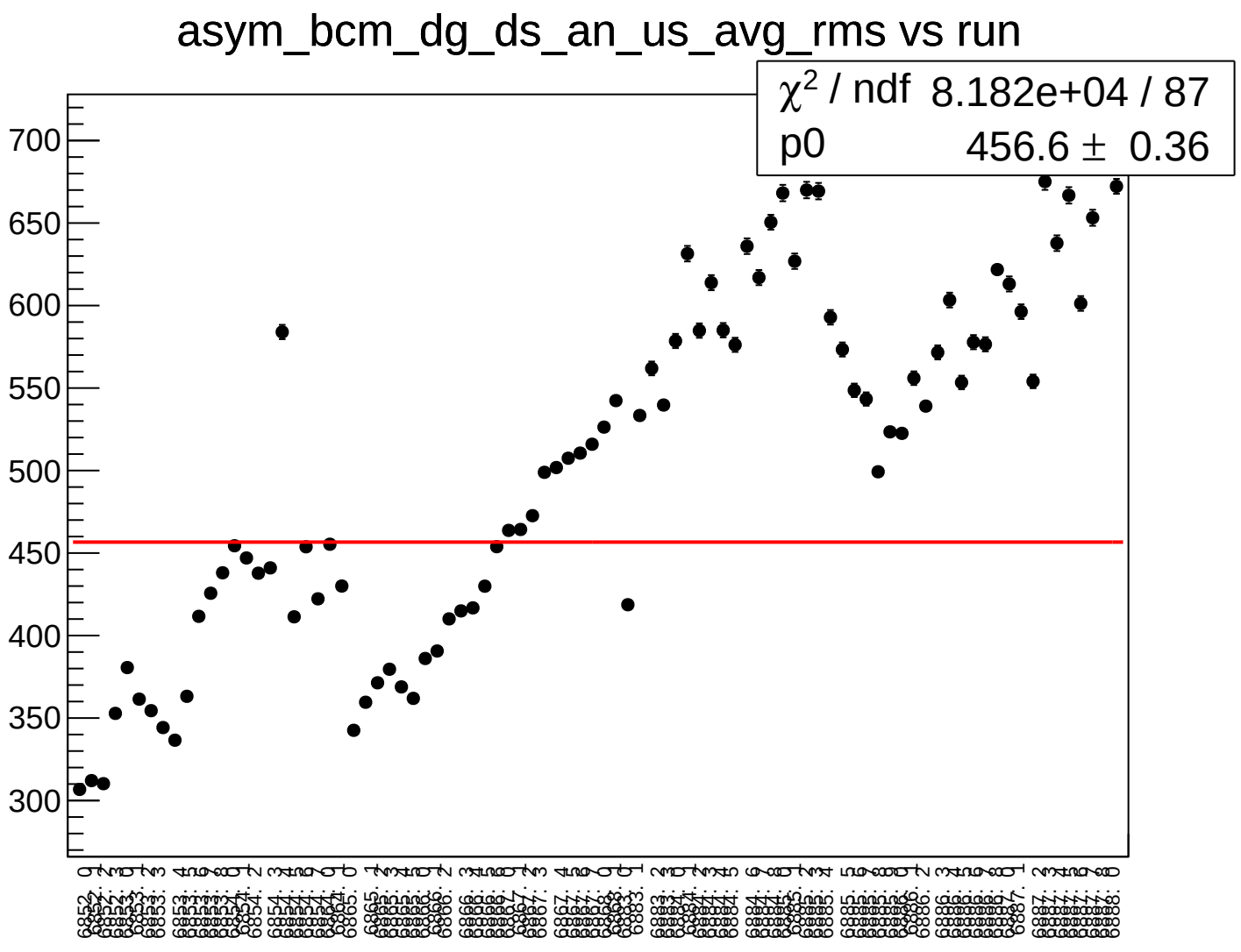

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 8.104e+04 / 87
p0 455.4 ± 0.359
700
650
600
550
500
450
400
350
300

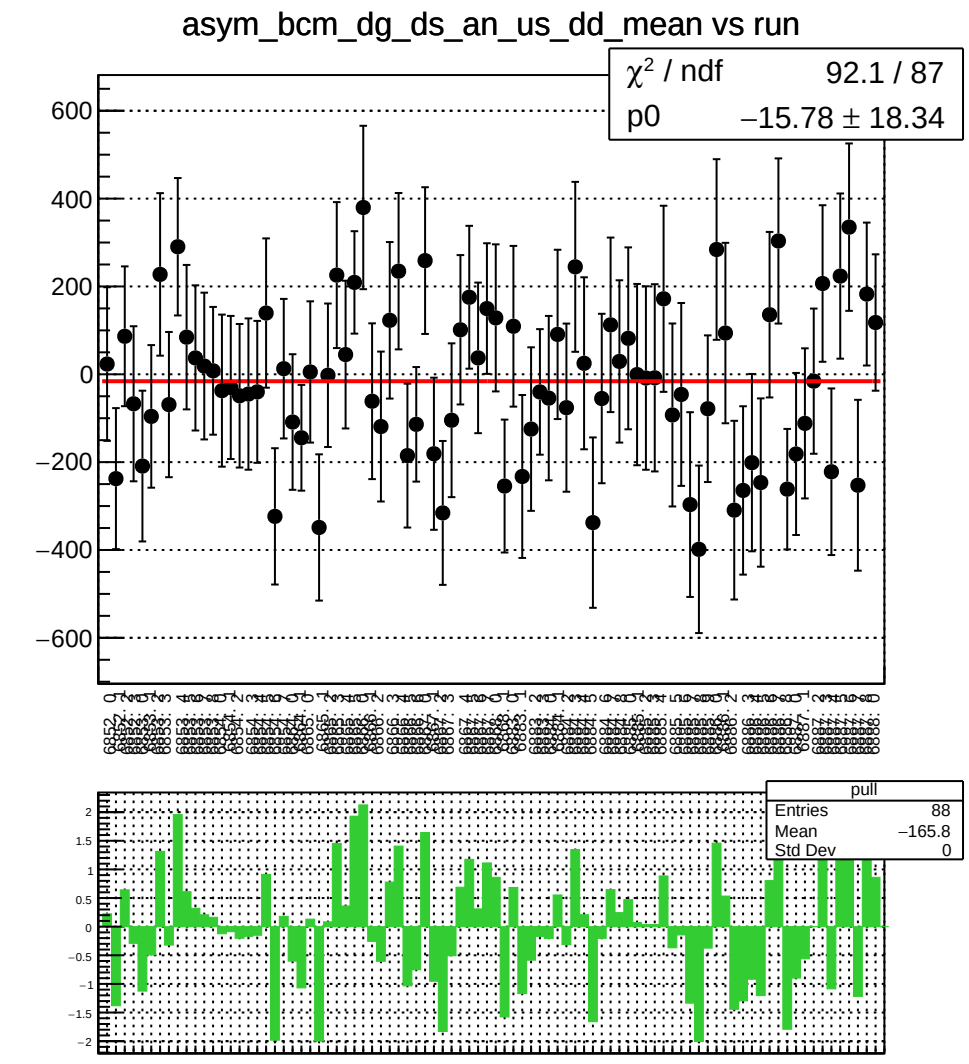

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 104.5 / 87
p0 21.84 ± 23.93
pull
Entries 88
Mean −1711
Std Dev 0

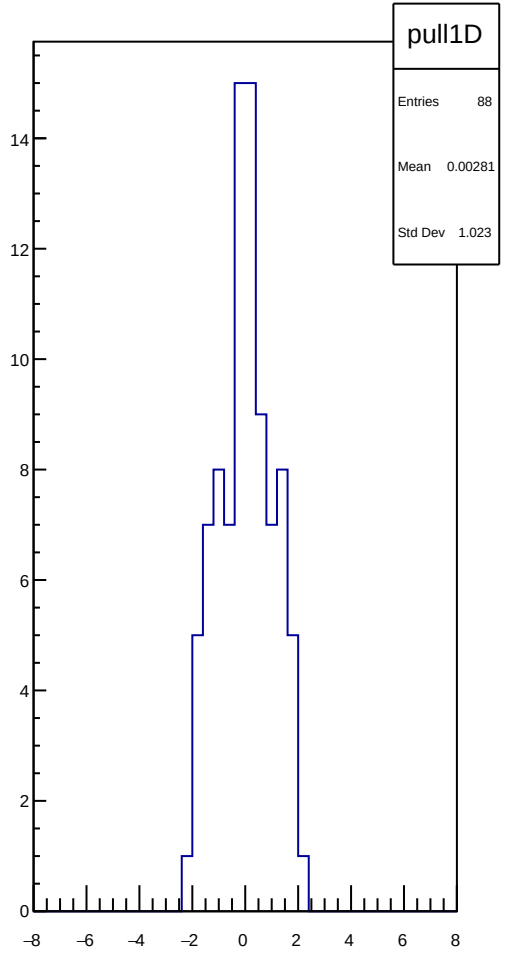

pull1D
Entries 88
Mean 0.00137
Std Dev 1.09

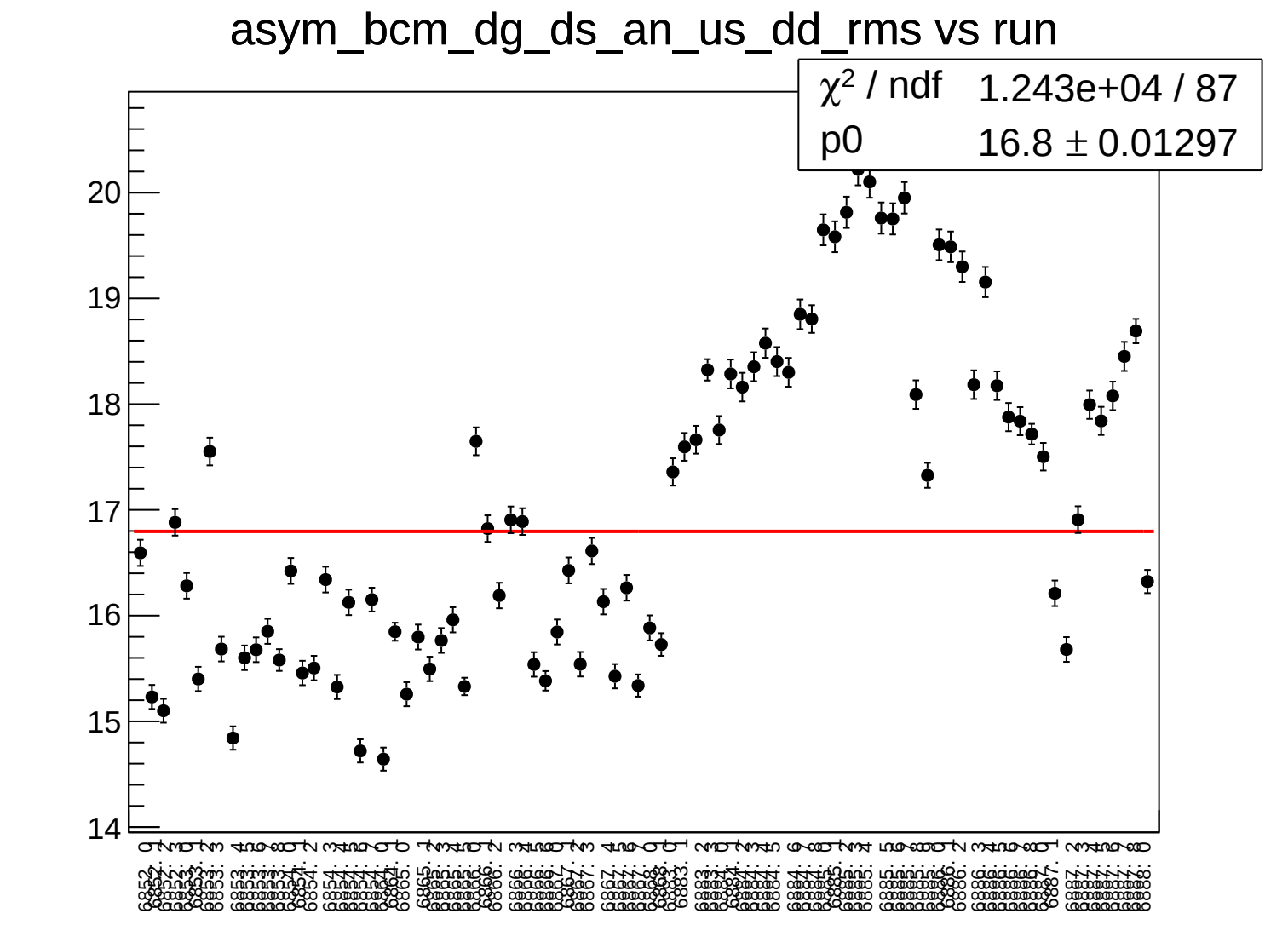

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 616.6 / 87
p0 22 ± 0.01692
23
22.5
22
21.5
21

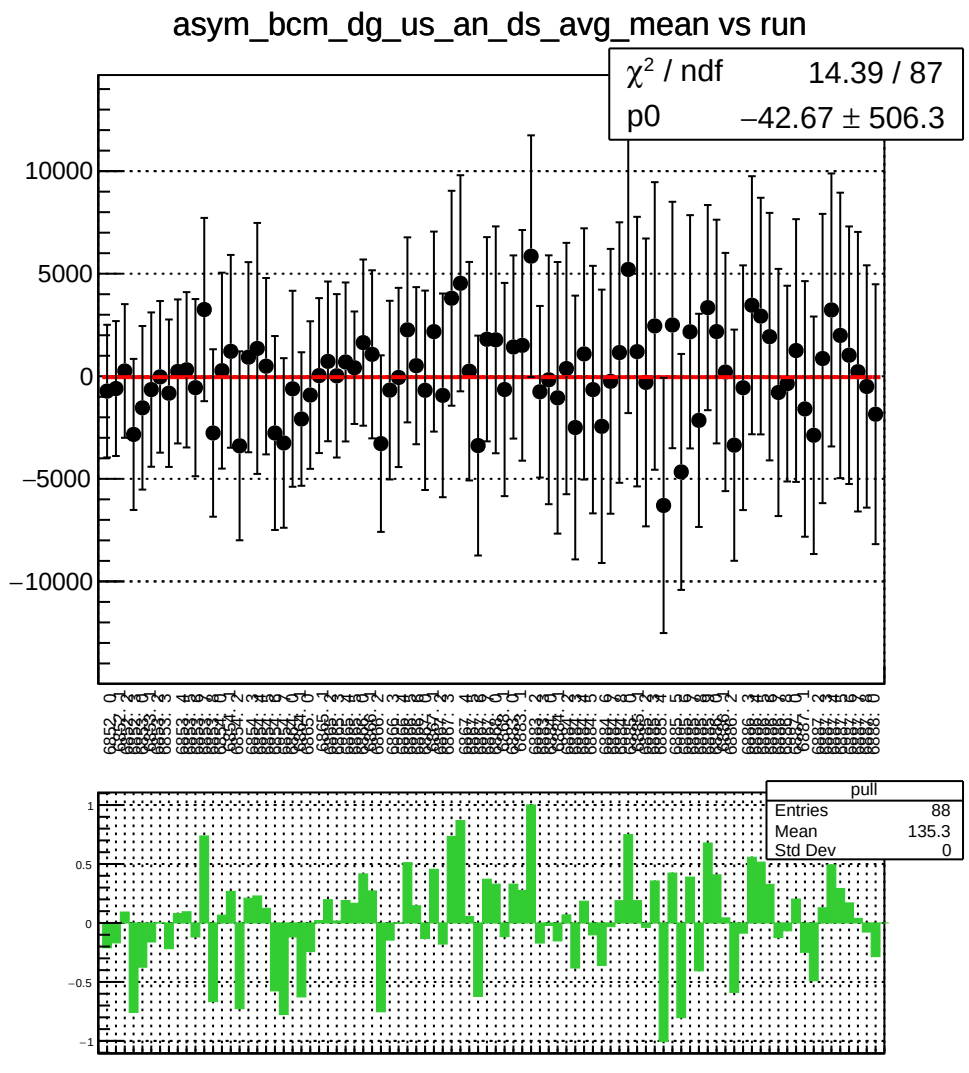

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 14.14 / 87
p0 −79.99 ± 509.1
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 137.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.01799
Std Dev 0.4004
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

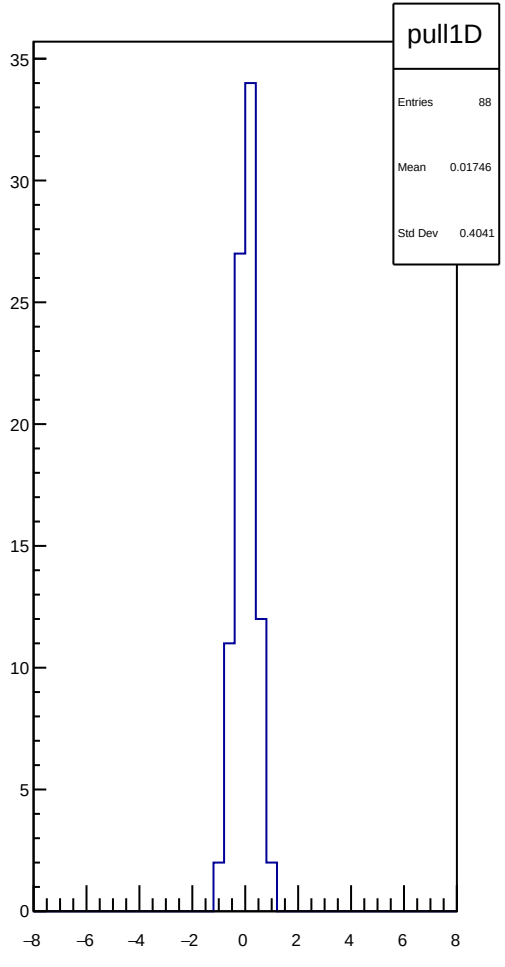

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 8.182e+04 / 87
p0 456.6 ± 0.36
700
650
600
550
500
450
400
350
300

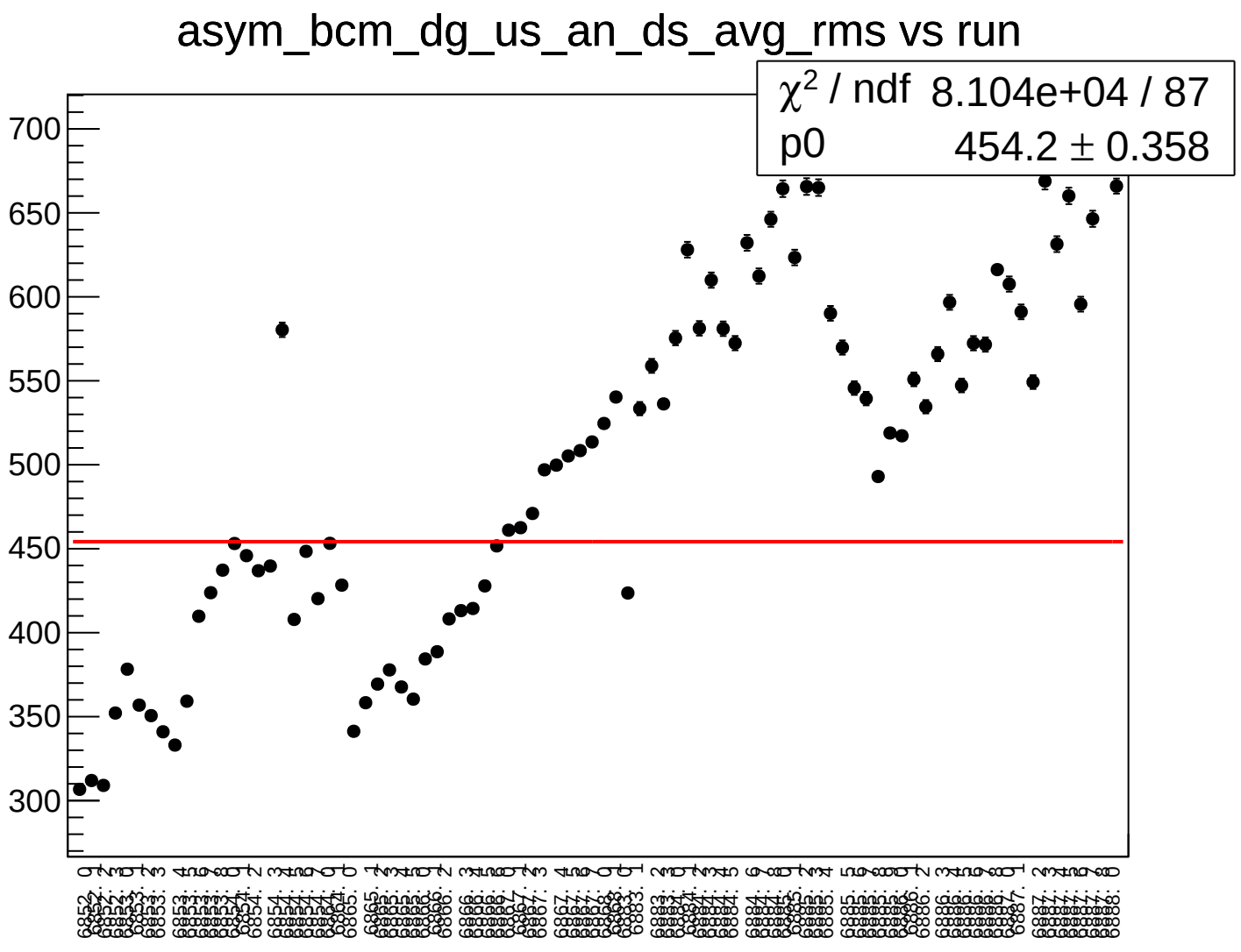

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 92.1 / 87
p0 −15.78 ± 18.34
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean −165.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

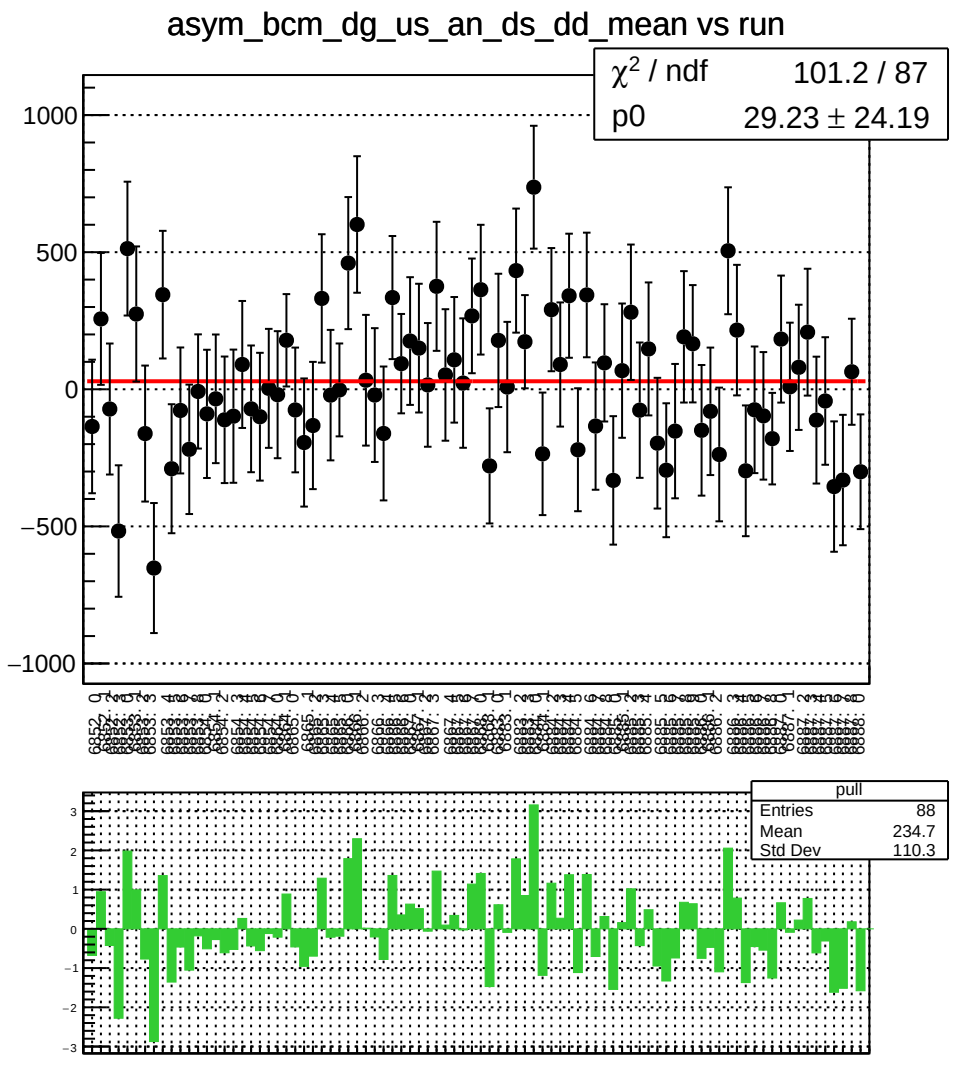

pull1D
Entries 88
Mean 0.00281
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

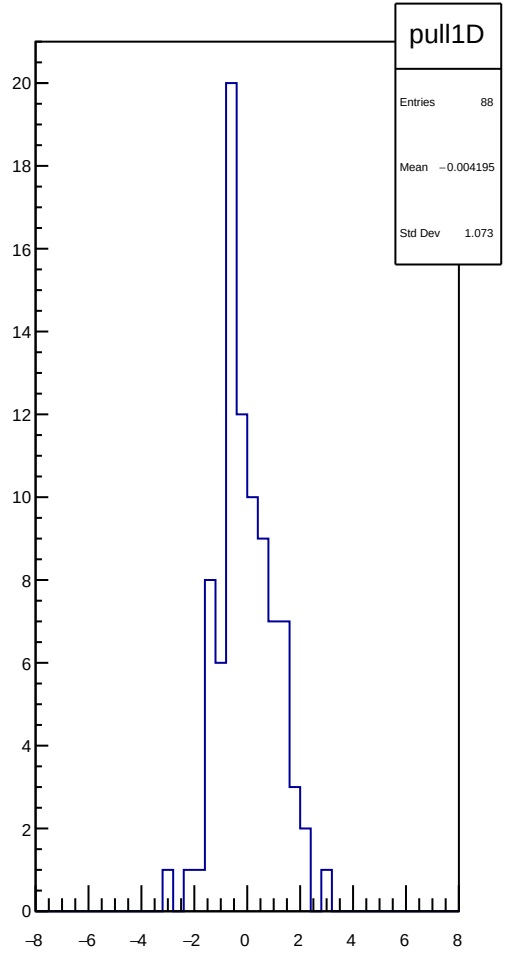

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 1.243e+04 / 87
p0 16.8 ± 0.01297
20
19
18
17
16
15
14

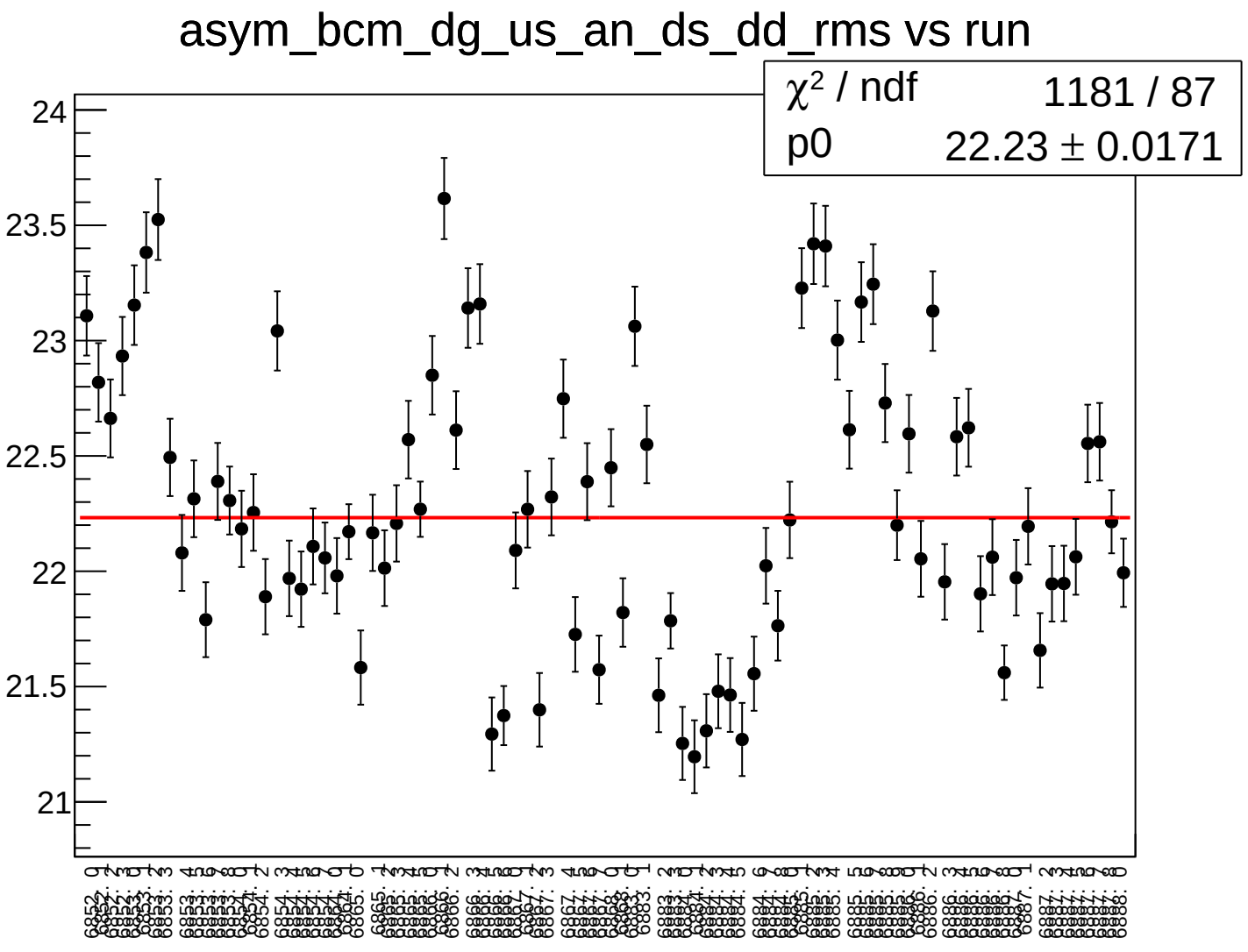

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 14.39 / 87
p0 −42.67 ± 506.3
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 135.3
Std Dev 0
1
0.5
0
−0.5
−1

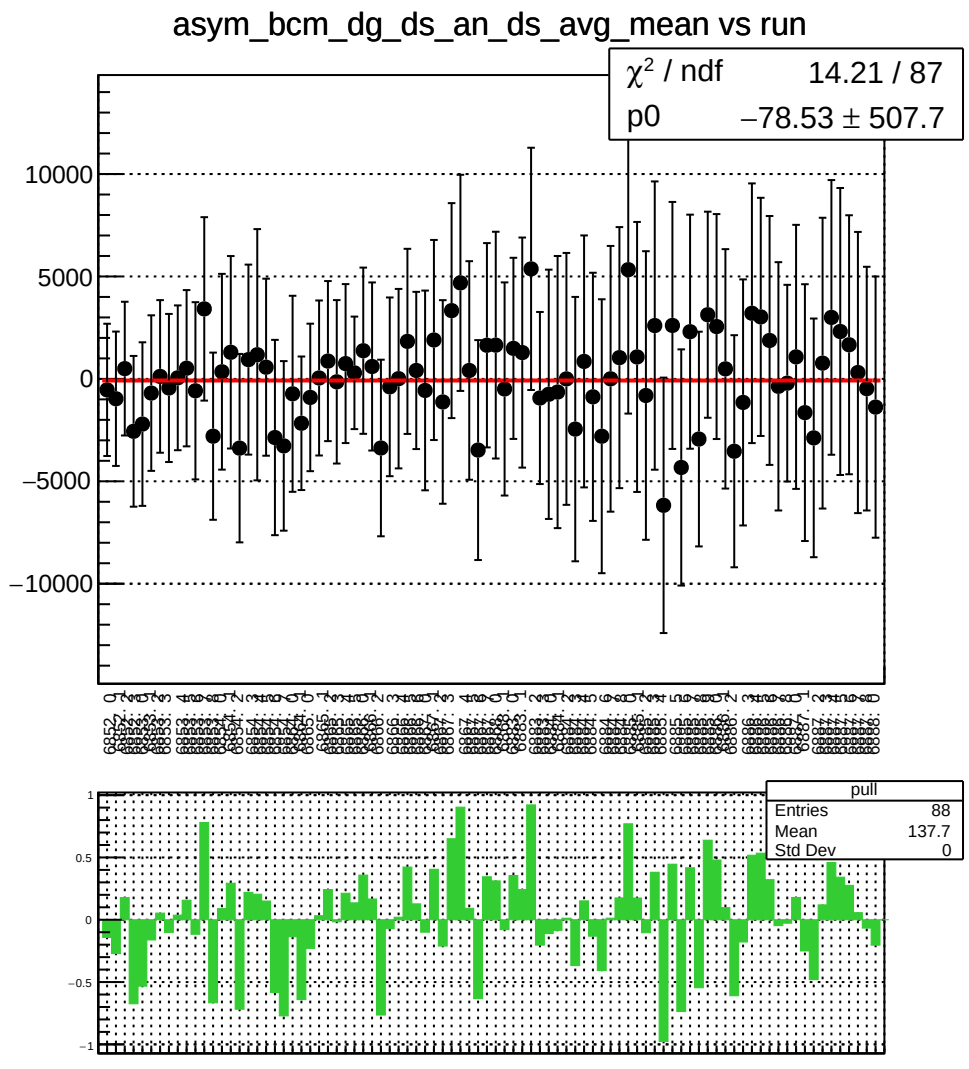

pull1D
Entries 88
Mean 0.01746
Std Dev 0.4041
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

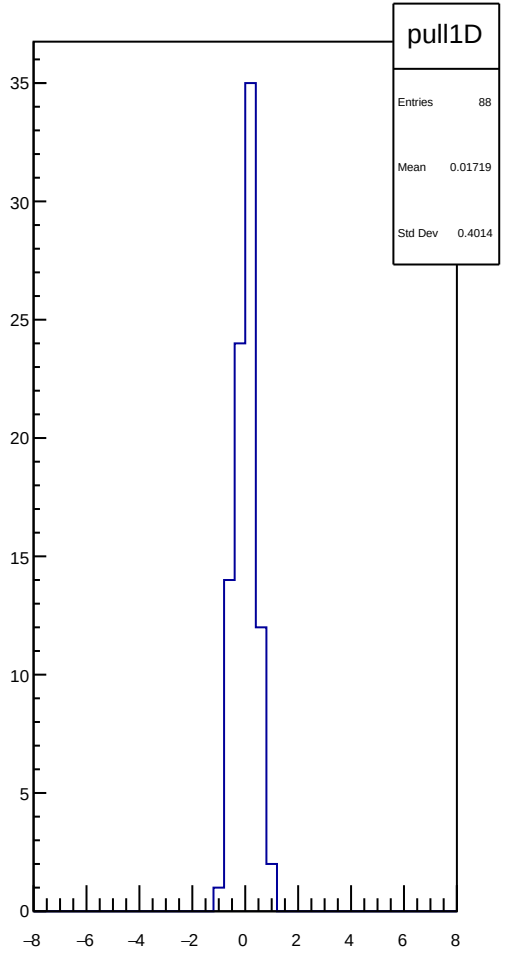

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 8.104e+04 / 87
p0 454.2 ± 0.358
700
650
600
550
500
450
400
350
300

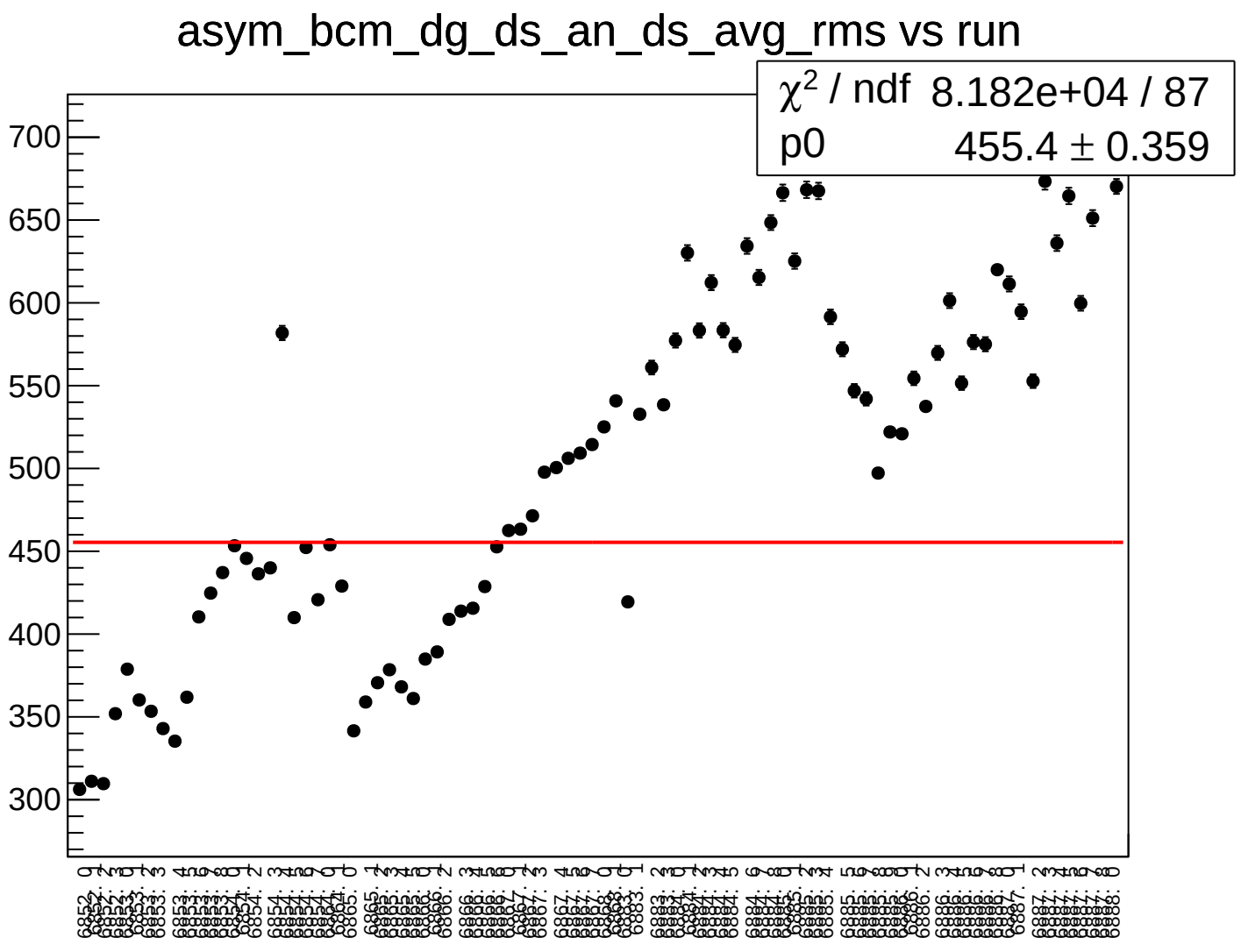

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 101.2 / 87
p0 29.23 ± 24.19
1000
500
0
−500
−1000
pull
Entries 88
Mean 234.7
Std Dev 110.3
3
2
1
0
−1
−2
−3

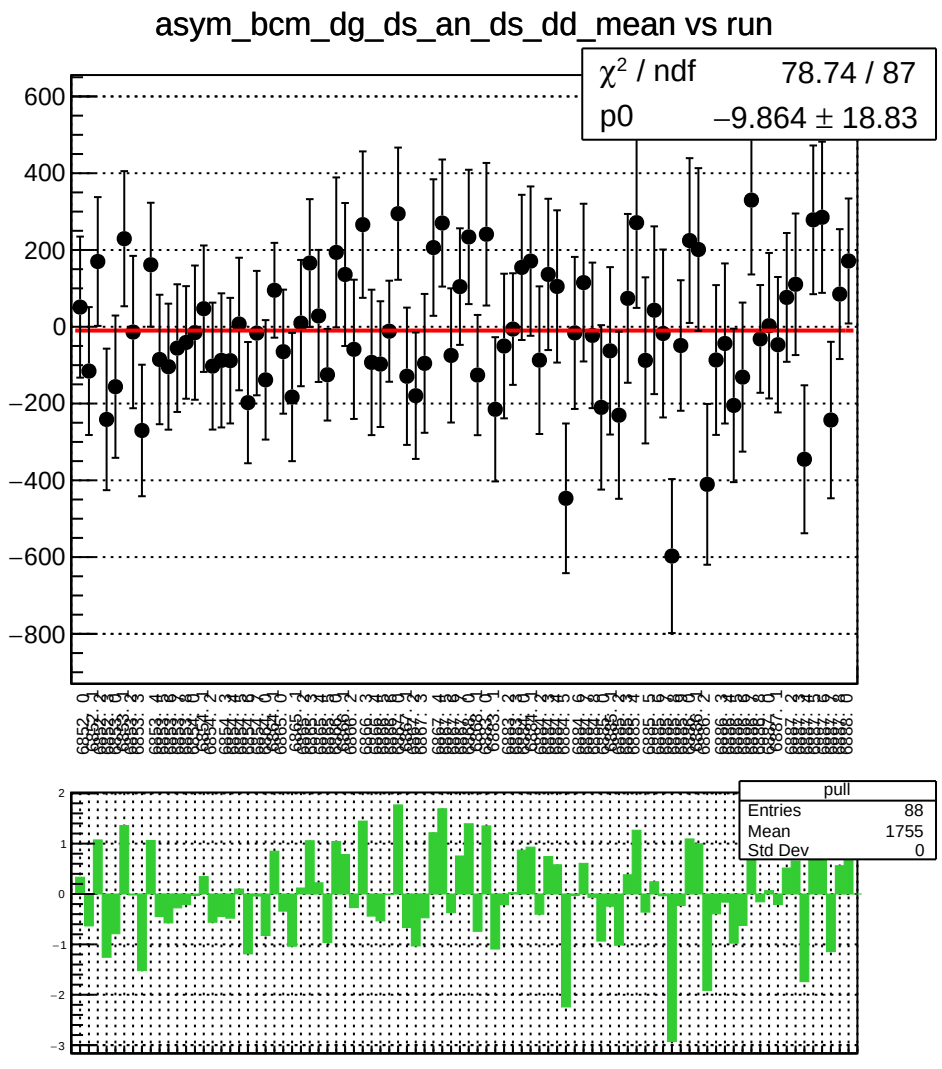

pull1D
Entries 88
Mean −0.004195
Std Dev 1.073
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

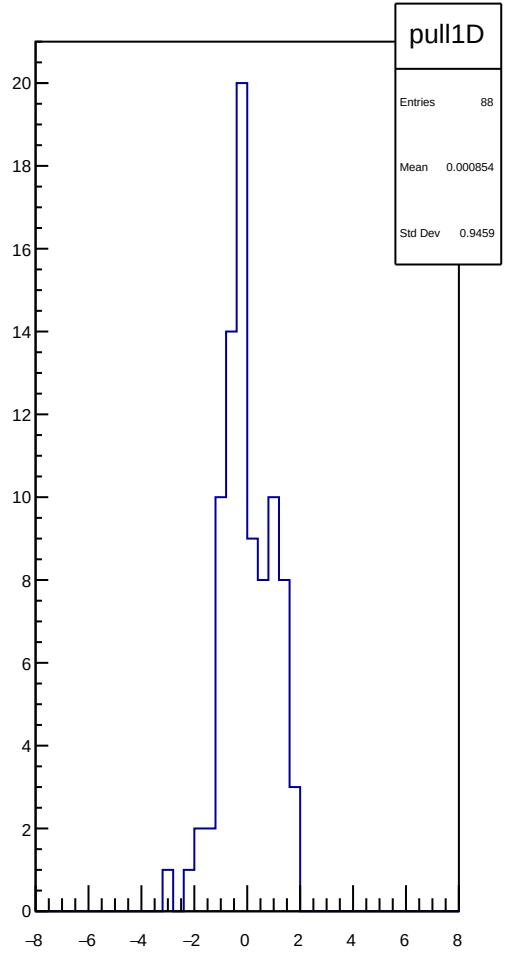

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 1181 / 87
p0 22.23 ± 0.0171
24
23.5
23
22.5
22
21.5
21

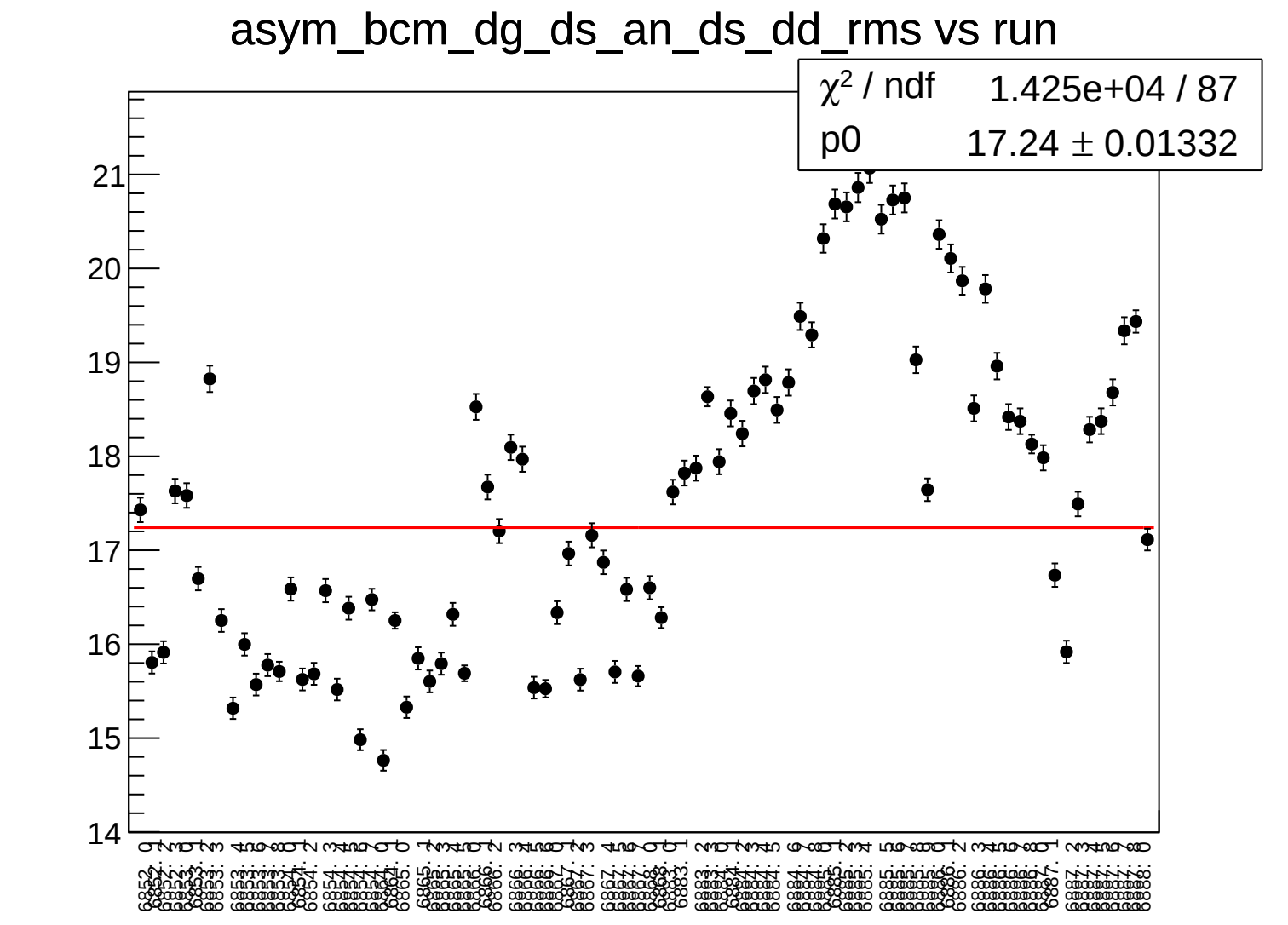

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 14.21 / 87
p0 −78.53 ± 507.7
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 137.7
Std Dev 0
1
0.5
0
−0.5
−1

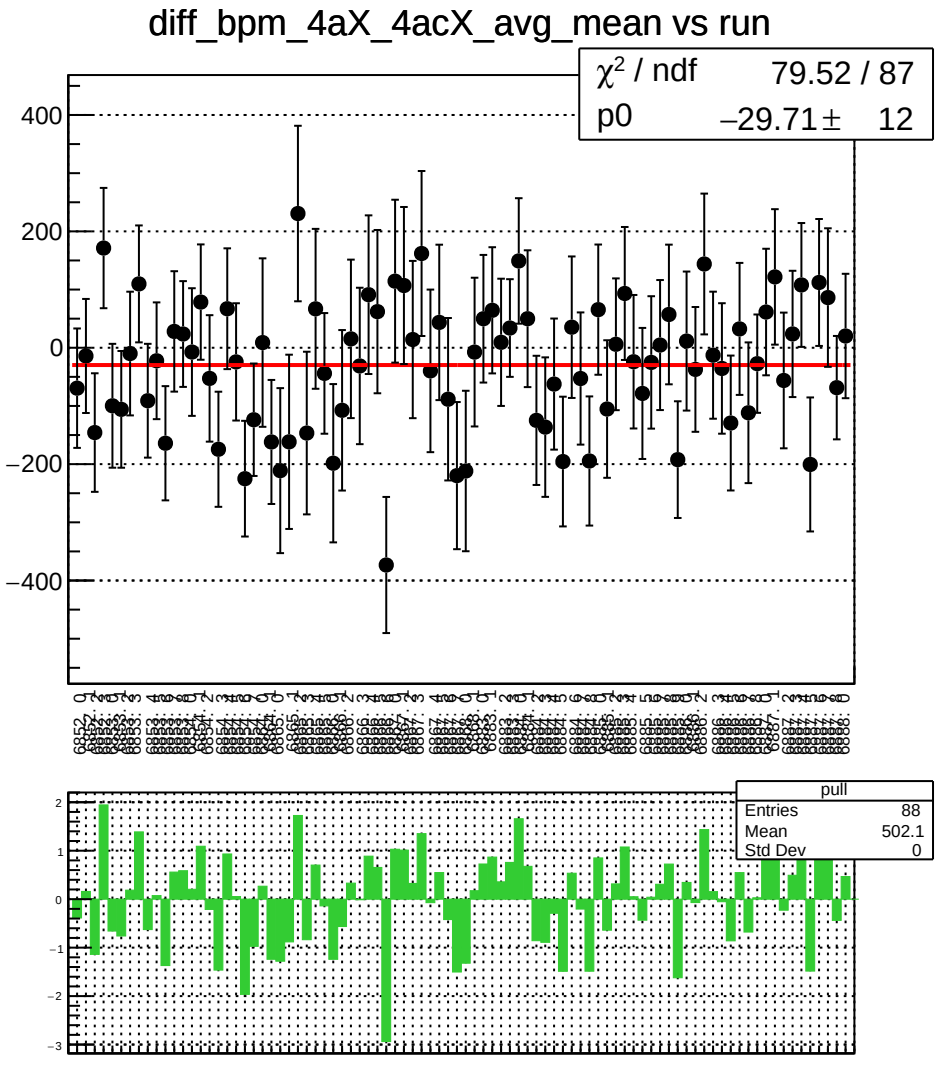

pull1D
Entries 88
Mean 0.01719
Std Dev 0.4014
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

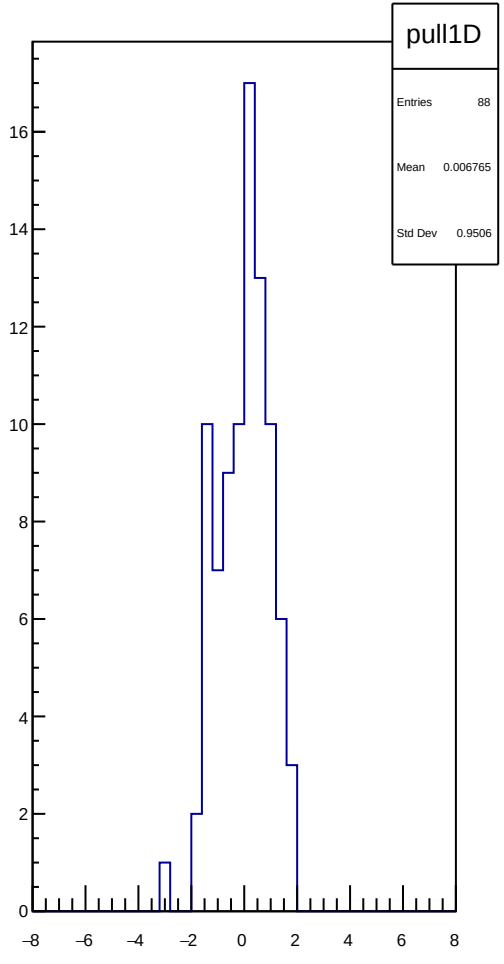

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 8.182e+04 / 87
p0 455.4 ± 0.359
700
650
600
550
500
450
400
350
300

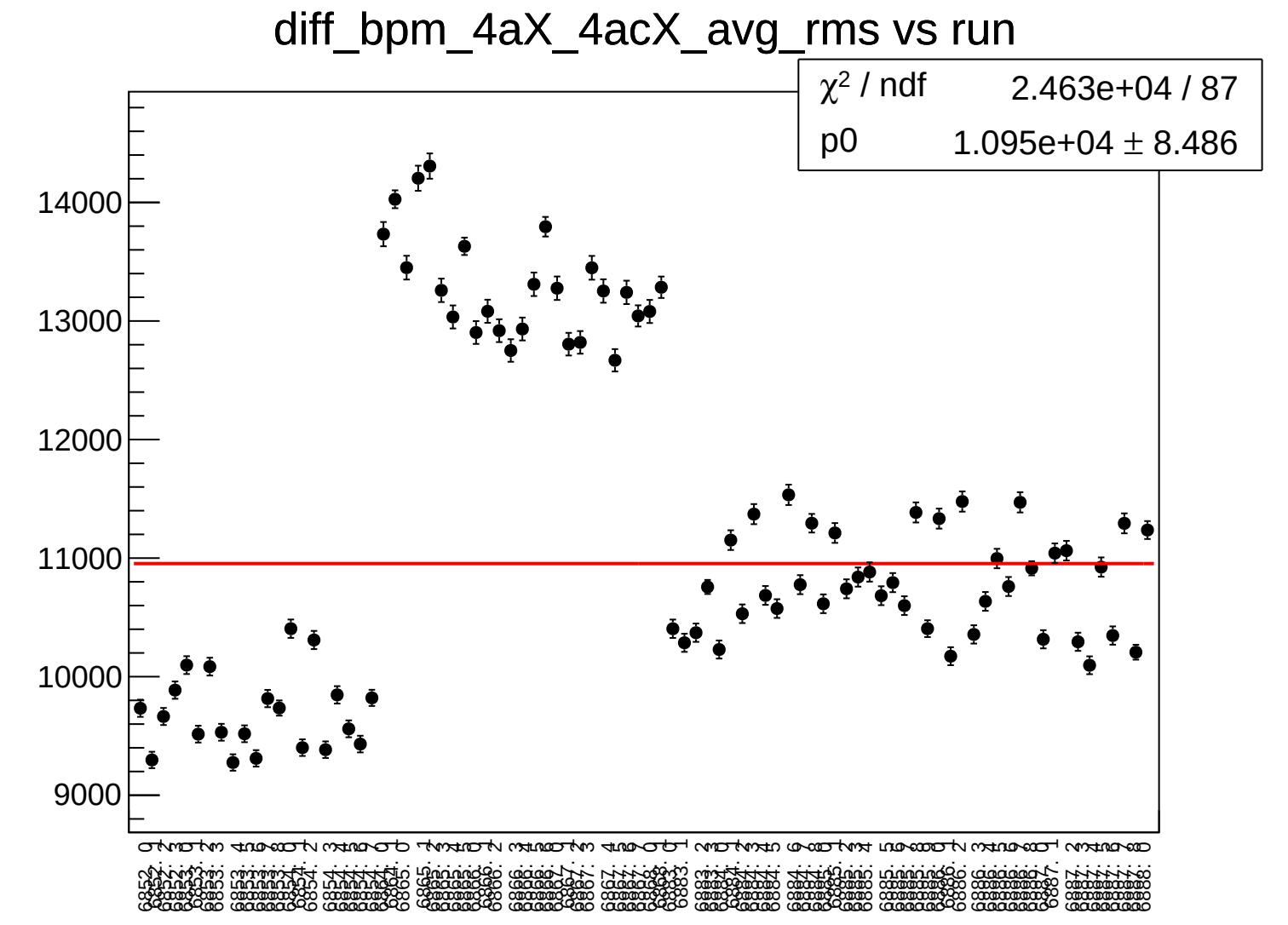

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 78.74 / 87
p0 −9.864 ± 18.83
pull
Entries 88
Mean 1755
Std Dev 0

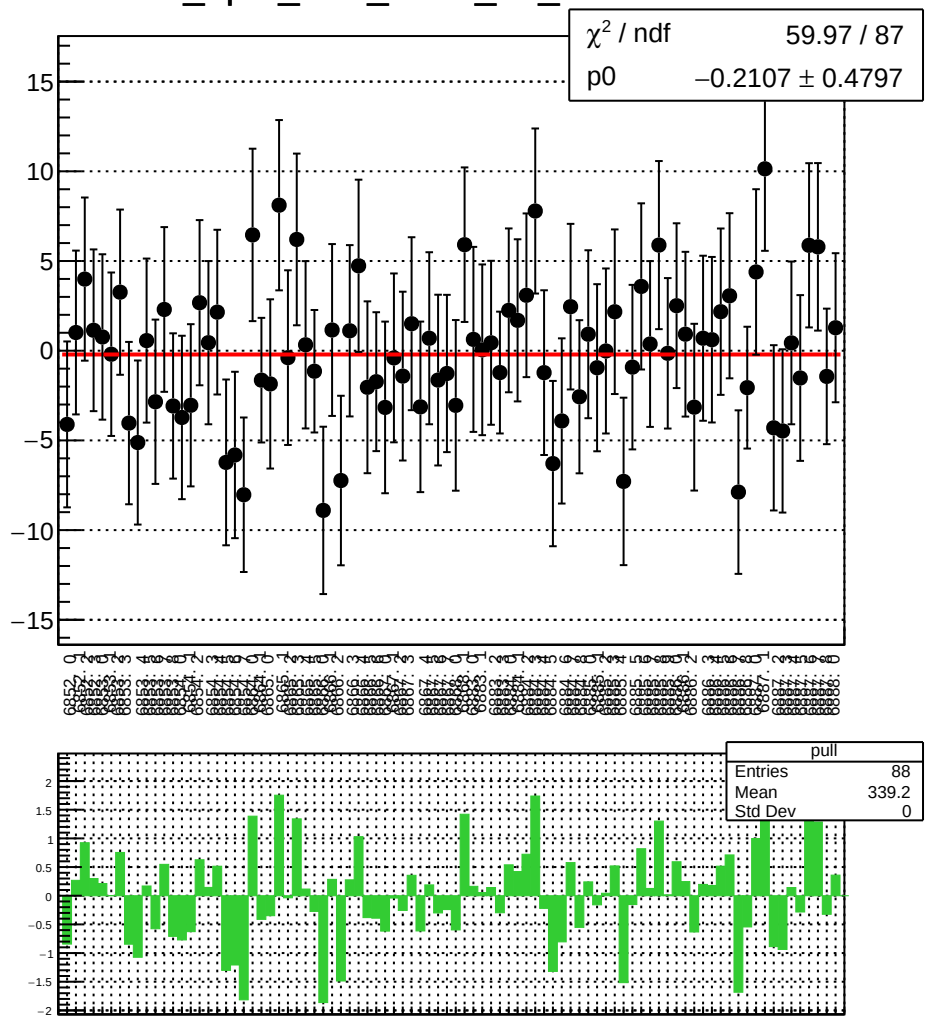

pull1D
Entries 88
Mean 0.000854
Std Dev 0.9459

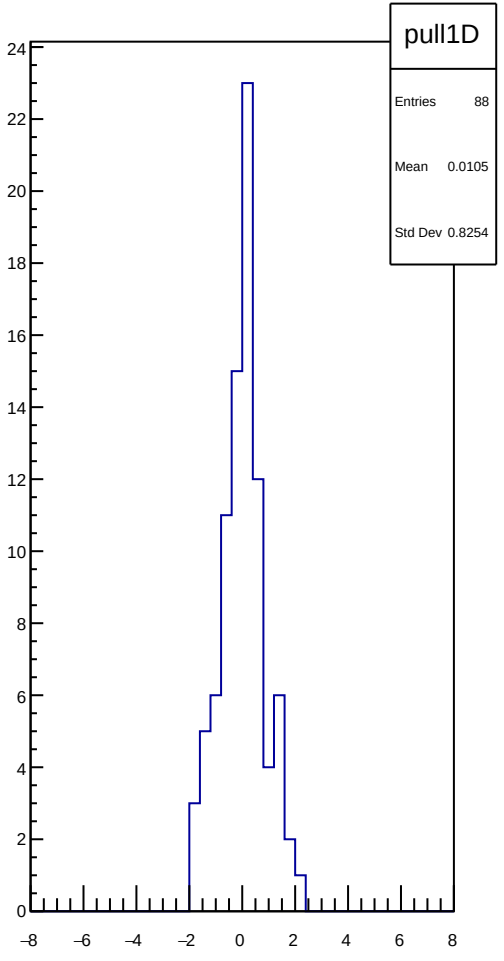

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 1.425e+04 / 87
p0 17.24 ± 0.01332
21
20
19
18
17
16
15
14

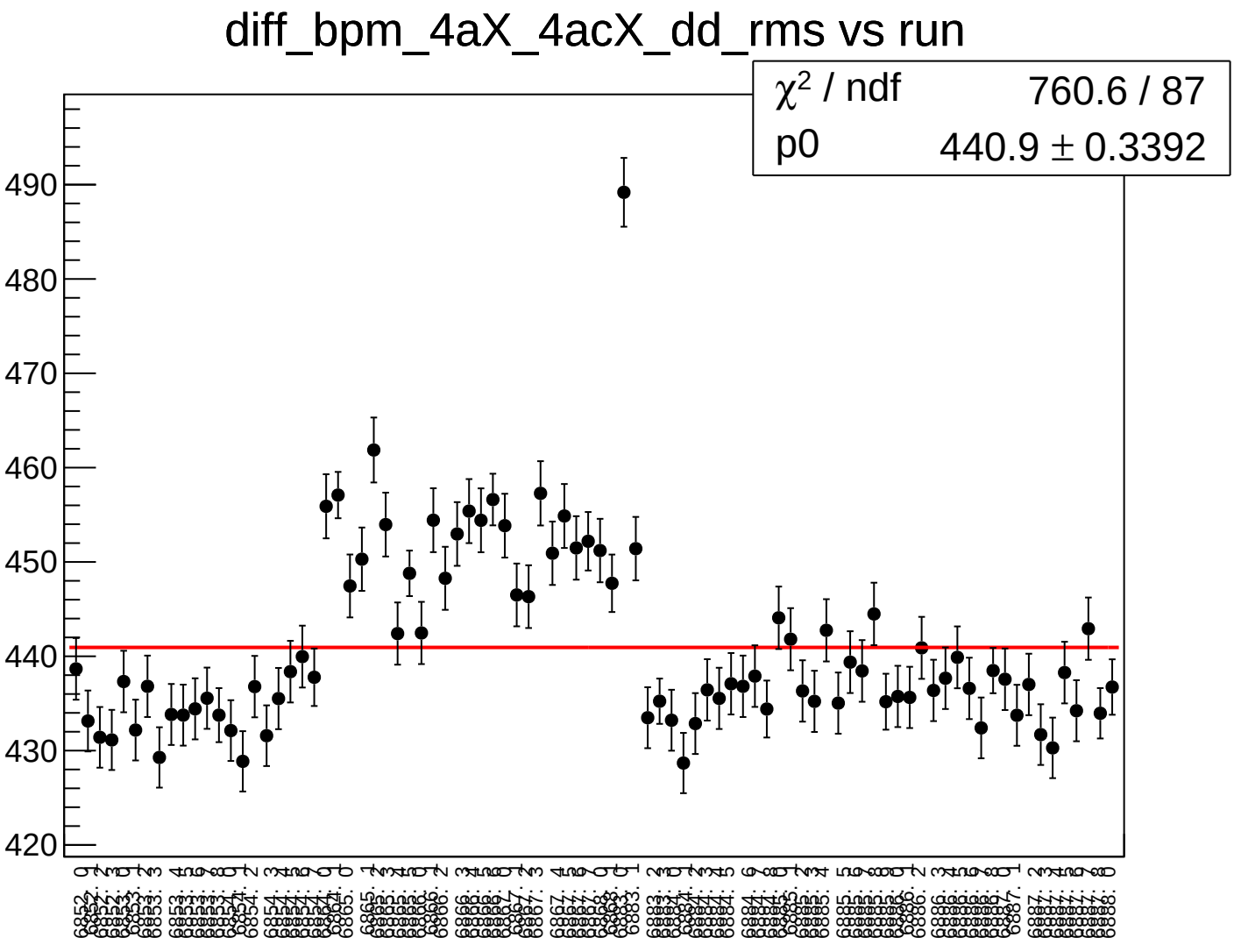

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 79.52 / 87
p0 −29.71 ± 12
400
200
0
−200
−400
pull
Entries 88
Mean 502.1
Std Dev 0
2
1
0
−1
−2
−3

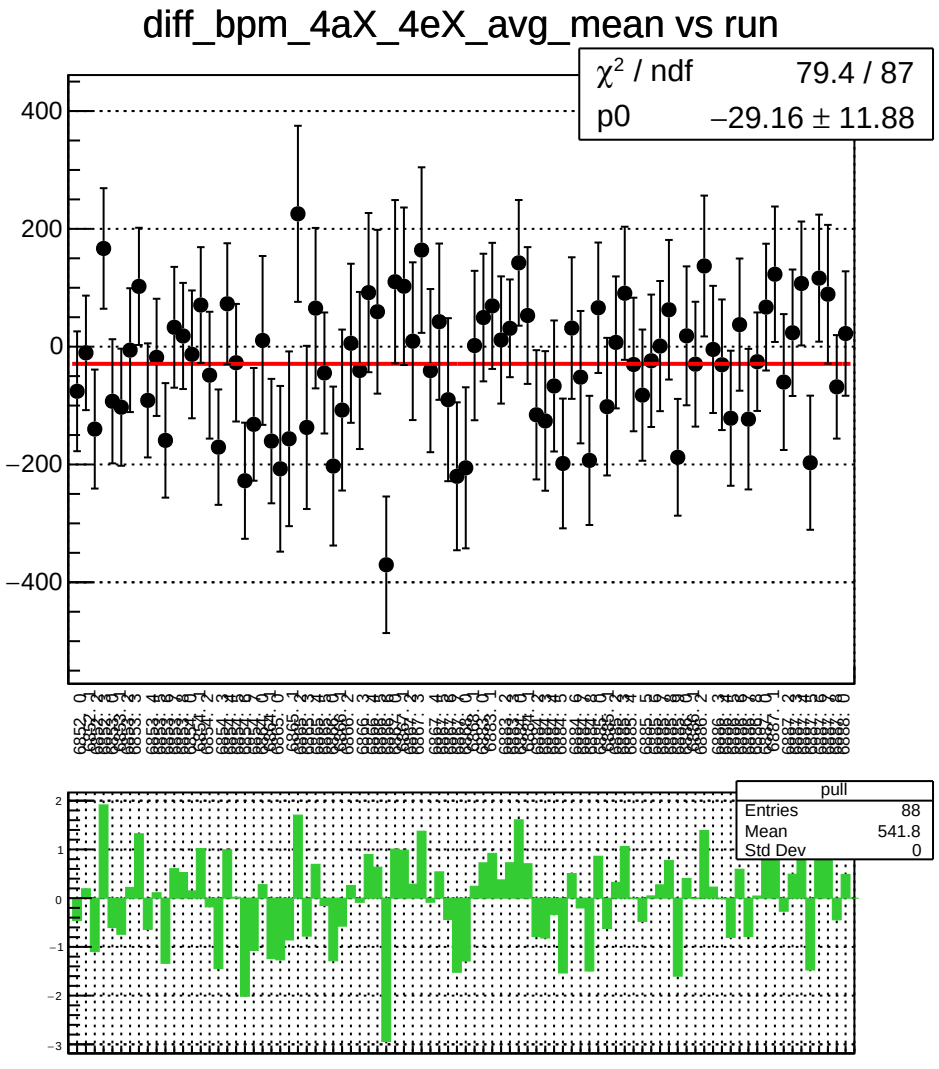

pull1D
Entries 88
Mean 0.006765
Std Dev 0.9506
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

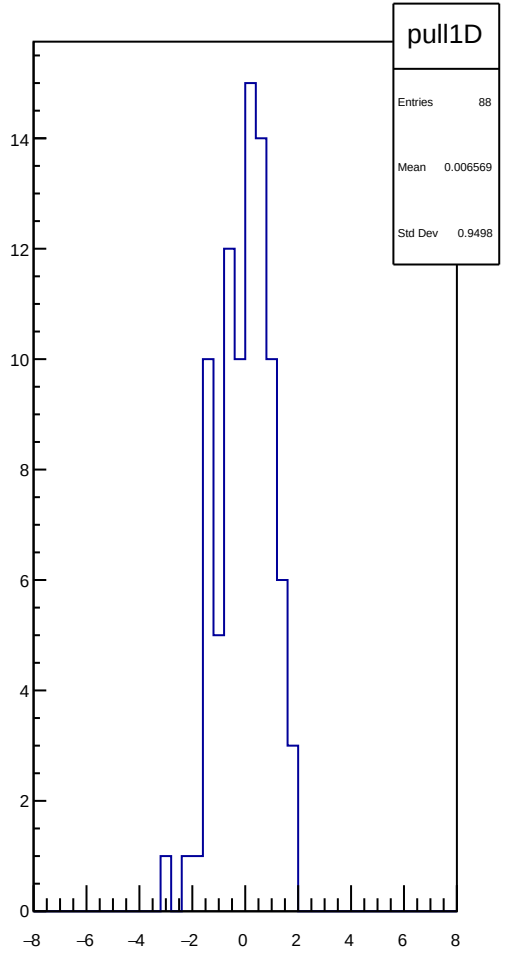

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2.463e+04 / 87
p0 1.095e+04 ± 8.486
14000
13000
12000
11000
10000
9000

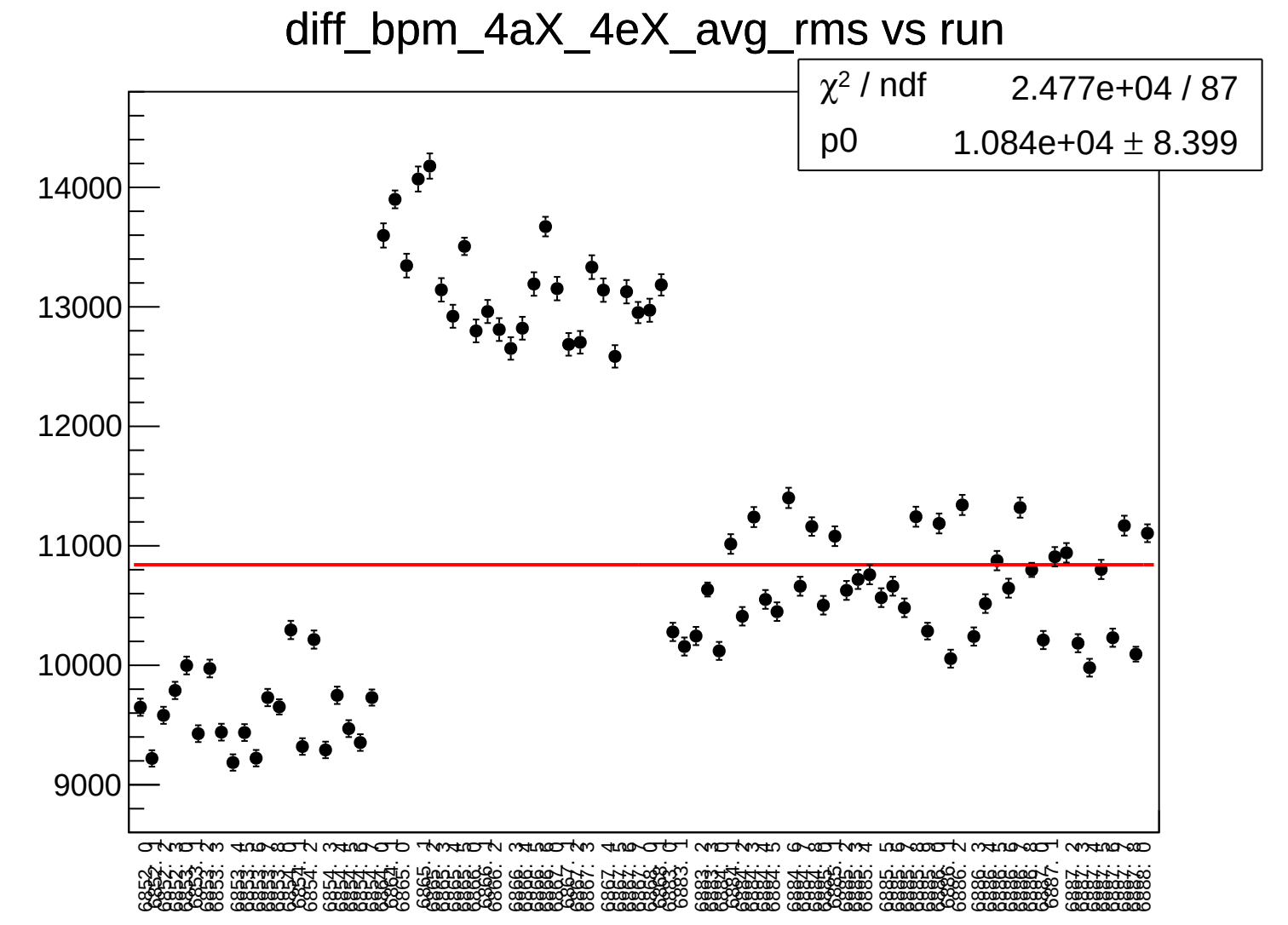

diff_bpm_4aX_4acX_dd_mean vs run
χ^2 / ndf 59.97 / 87
p0 −0.2107 ± 0.4797
pull
Entries 88
Mean 339.2
Std Dev 0

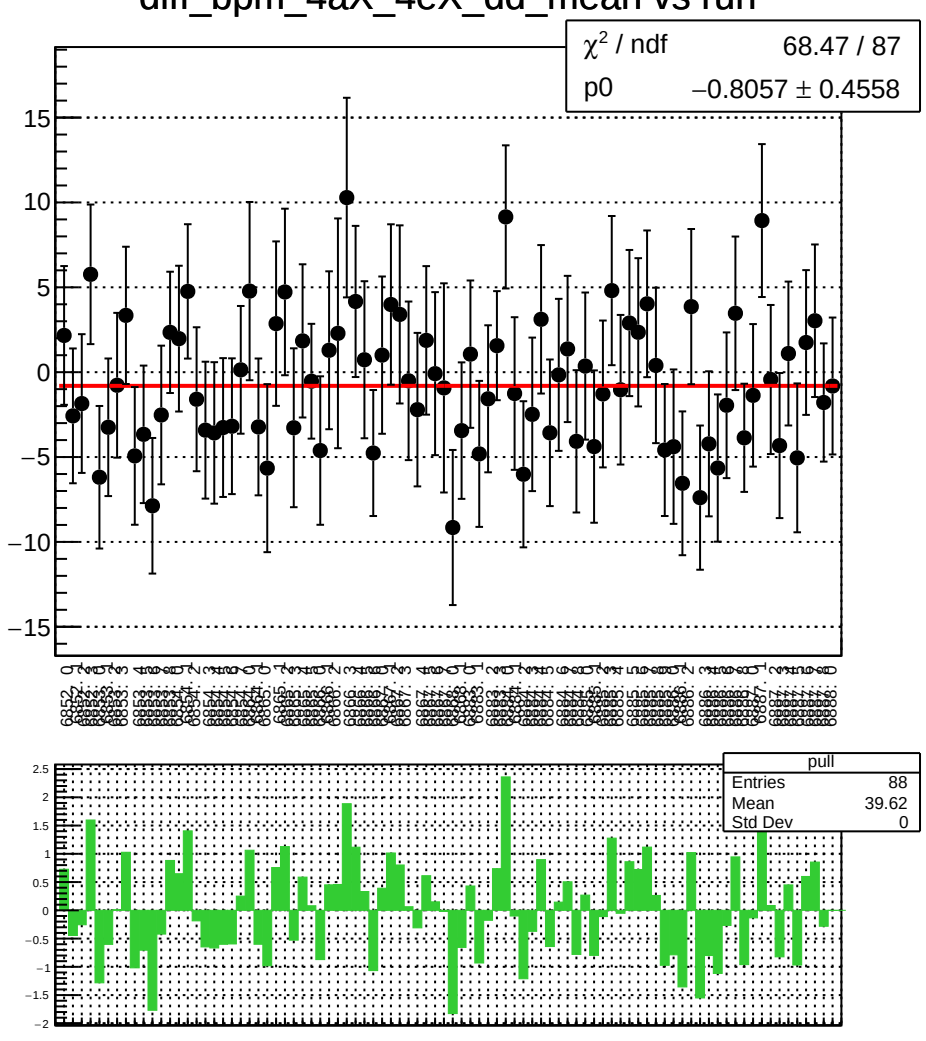

pull1D
Entries 88
Mean 0.0105
Std Dev 0.8254

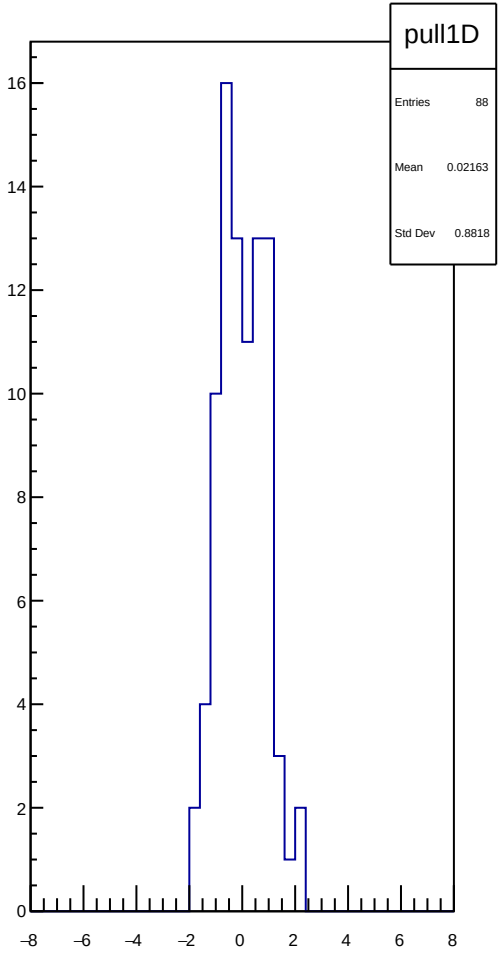

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 760.6 / 87
p0 440.9 ± 0.3392
490
480
470
460
450
440
430
420

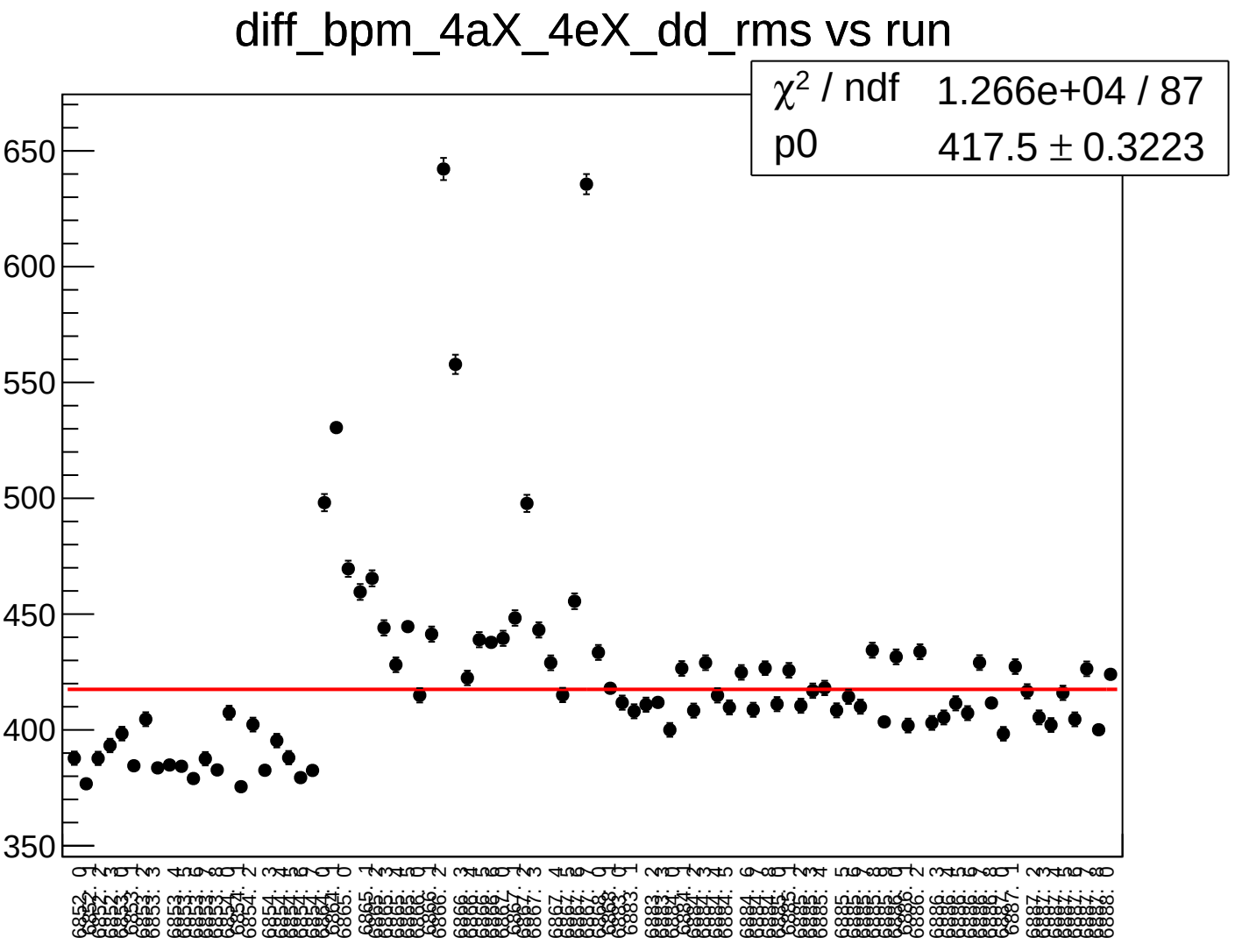

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 79.4 / 87
p0 −29.16 ± 11.88
400
200
0
−200
−400
pull
Entries 88
Mean 541.8
Std Dev 0
2
1
0
−1
−2
−3

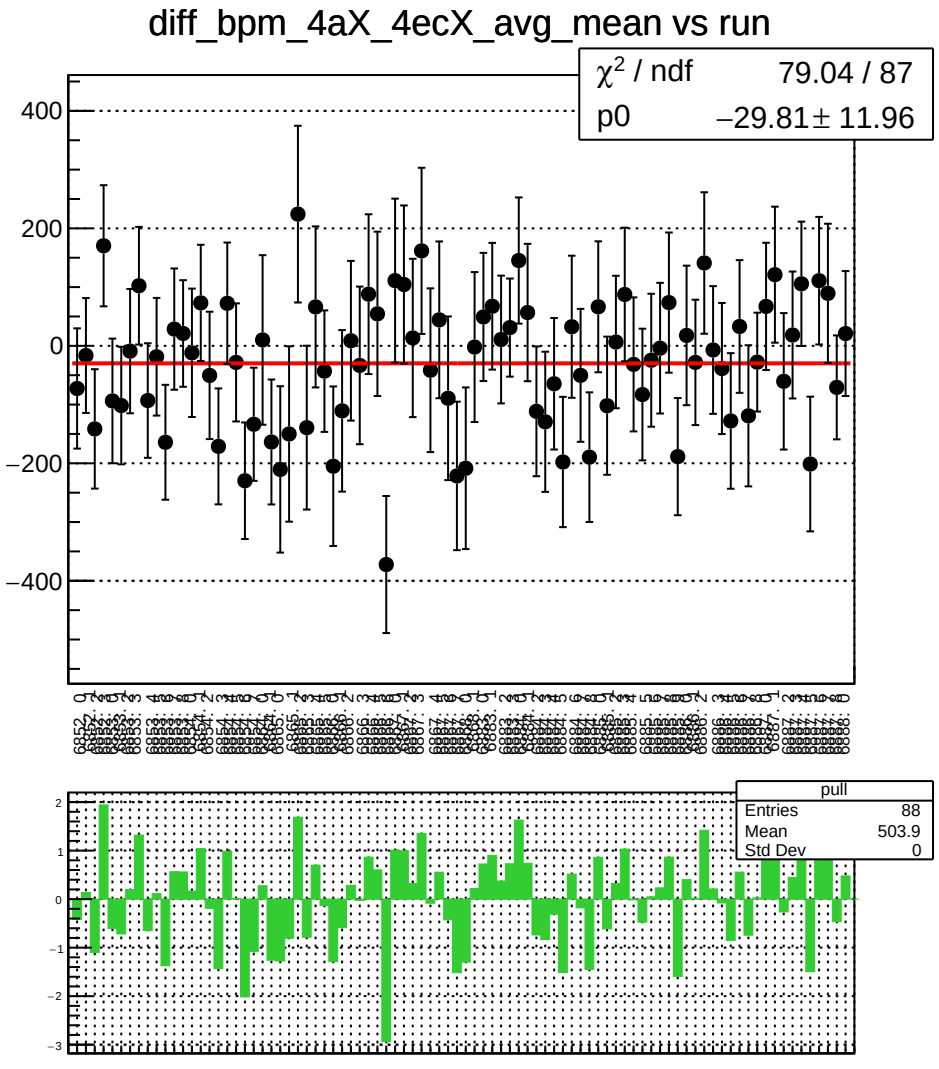

pull1D
Entries 88
Mean 0.006569
Std Dev 0.9498
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

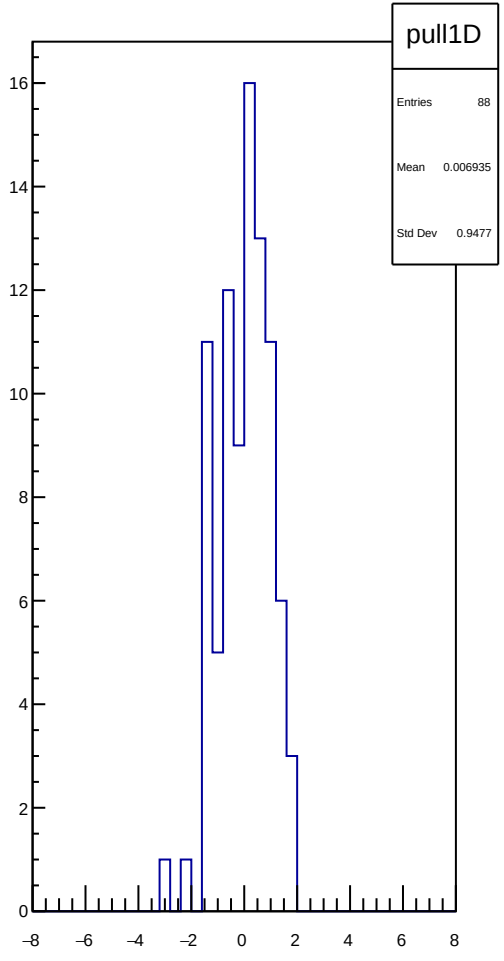

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 2.477e+04 / 87
p0 1.084e+04 ± 8.399
14000
13000
12000
11000
10000
9000

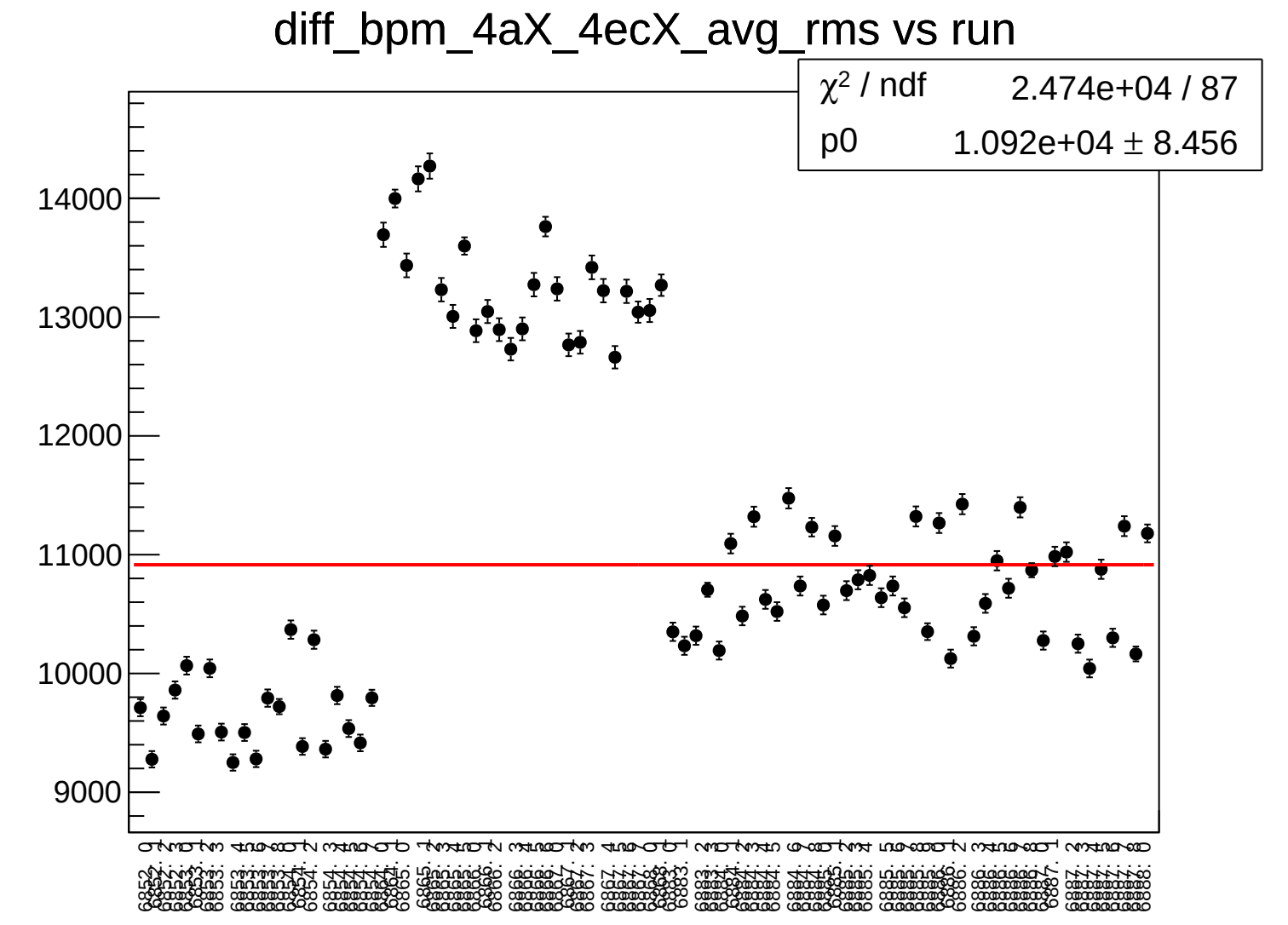

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 68.47 / 87
p0 −0.8057 ± 0.4558
pull
Entries 88
Mean 39.62
Std Dev 0

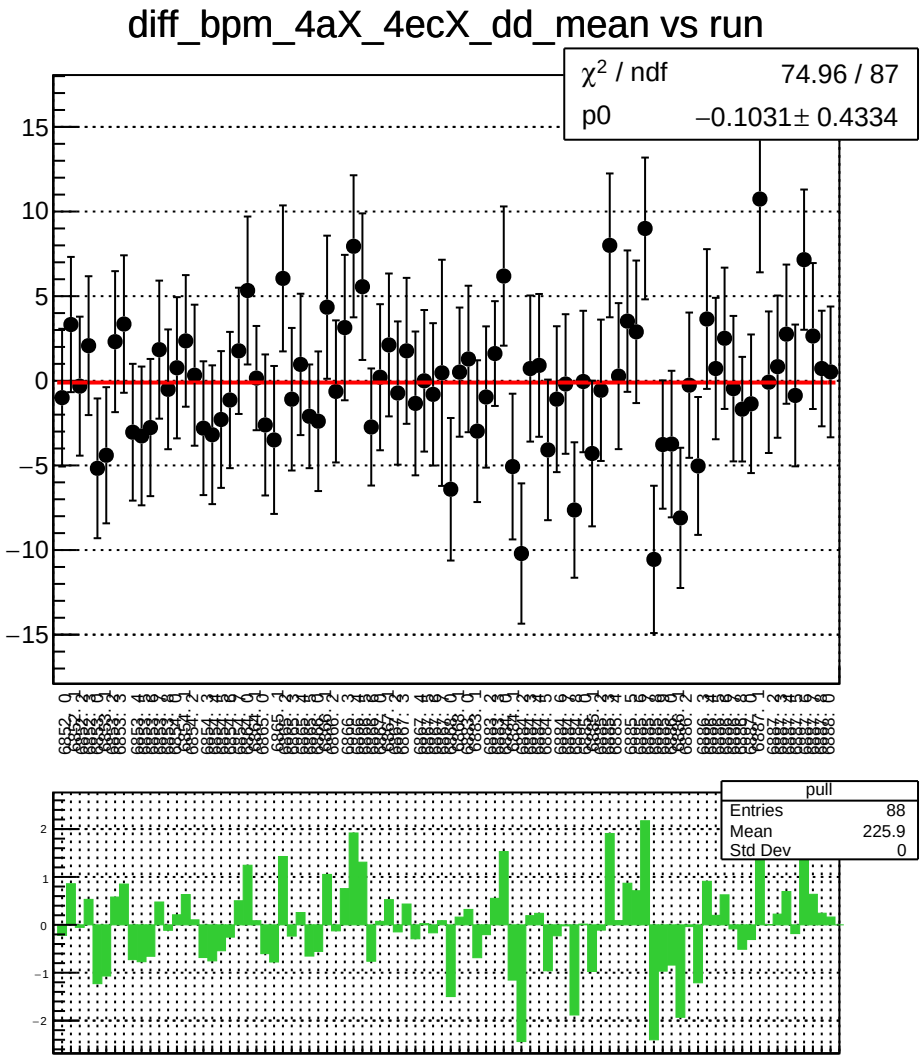

pull1D
Entries 88
Mean 0.02163
Std Dev 0.8818

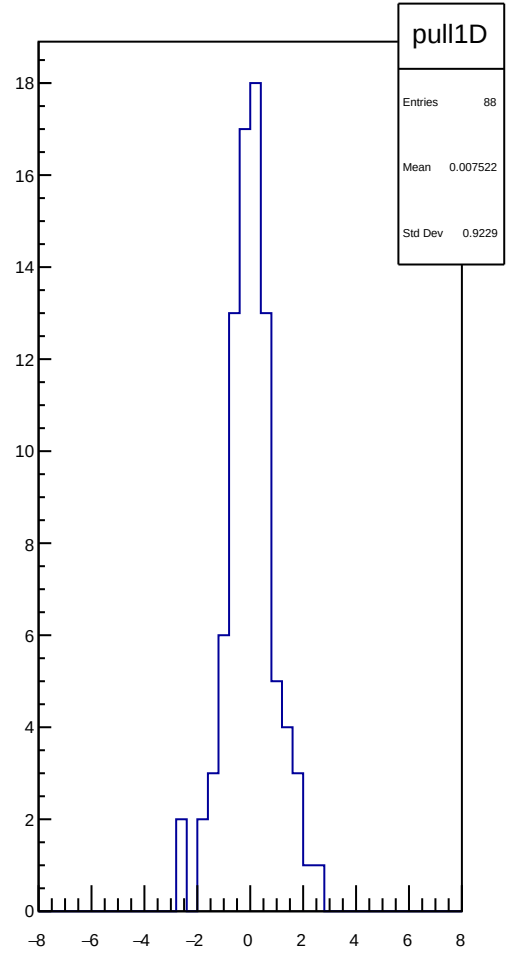

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 1.266e+04 / 87
p0 417.5 ± 0.3223
650
600
550
500
450
400
350

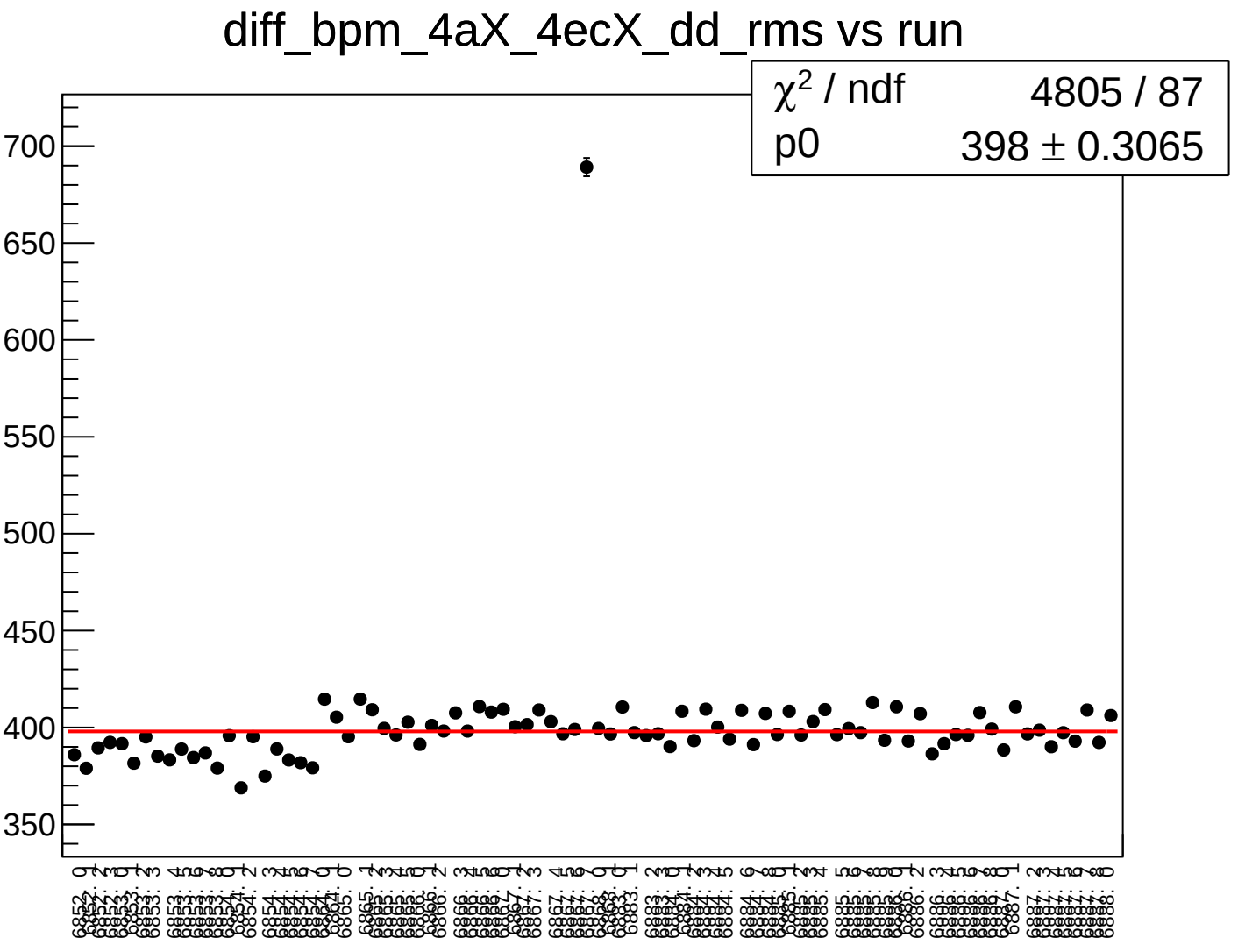

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 79.04 / 87
p0 −29.81 ± 11.96
400
200
0
−200
−400
pull
Entries 88
Mean 503.9
Std Dev 0
2
1
0
−1
−2
−3

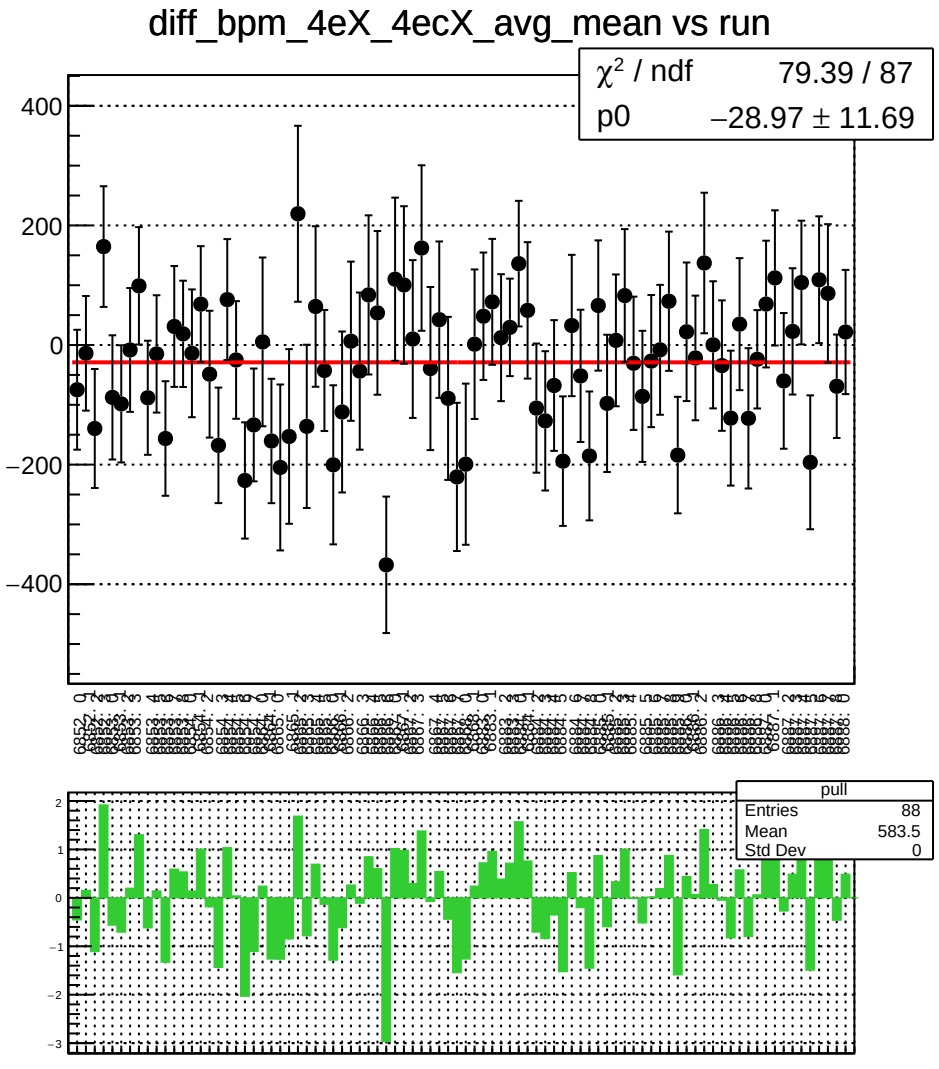

pull1D
Entries 88
Mean 0.006935
Std Dev 0.9477
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

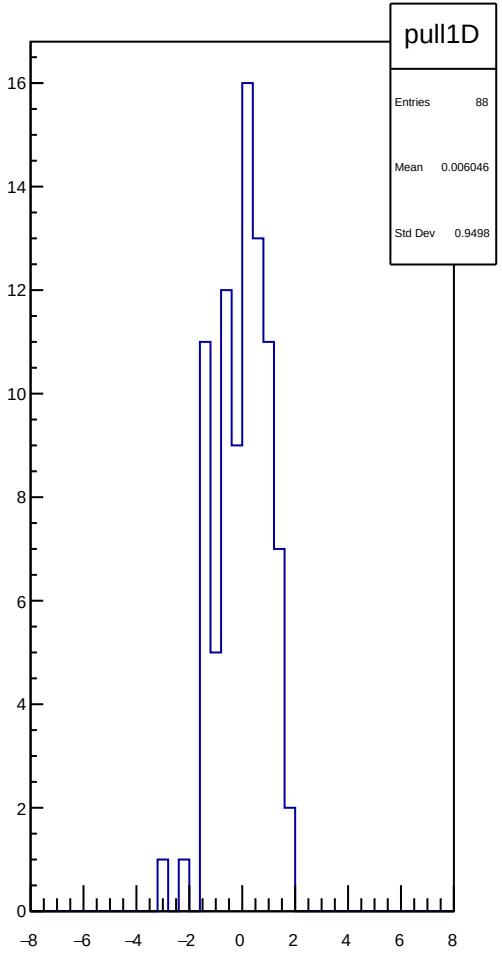

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 2.474e+04 / 87
p0 1.092e+04 ± 8.456
14000
13000
12000
11000
10000
9000

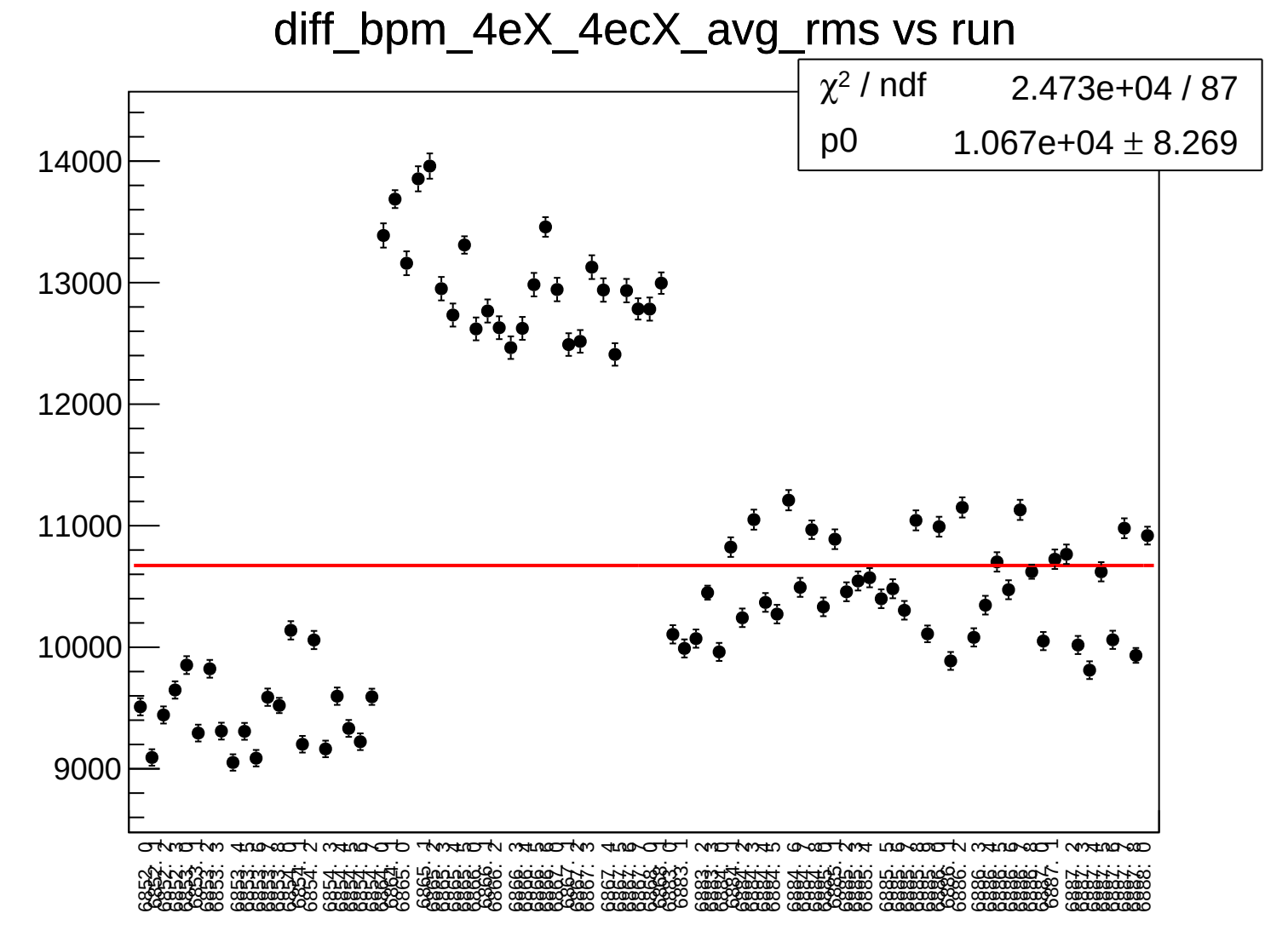

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 74.96 / 87
p0 −0.1031± 0.4334
pull
Entries 88
Mean 225.9
Std Dev 0

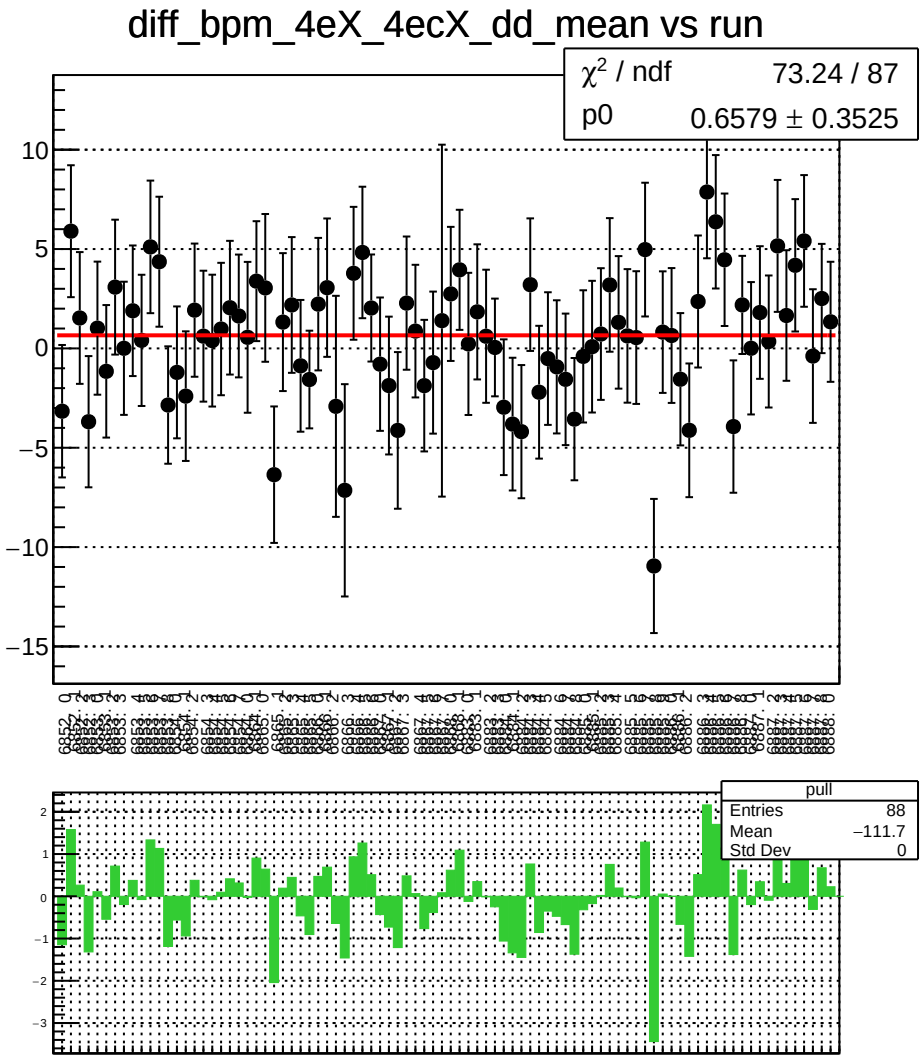

pull1D
Entries 88
Mean 0.007522
Std Dev 0.9229

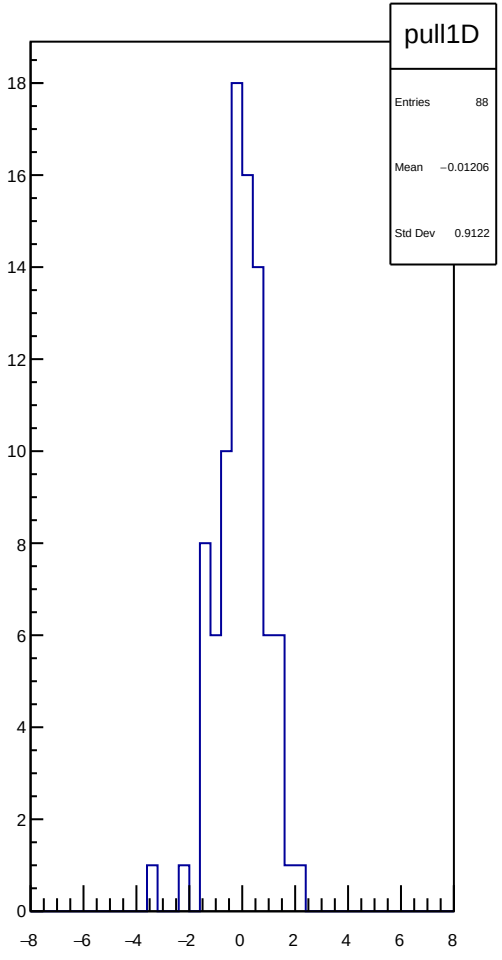

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 4805 / 87
p0 398 ± 0.3065
700
650
600
550
500
450
400
350

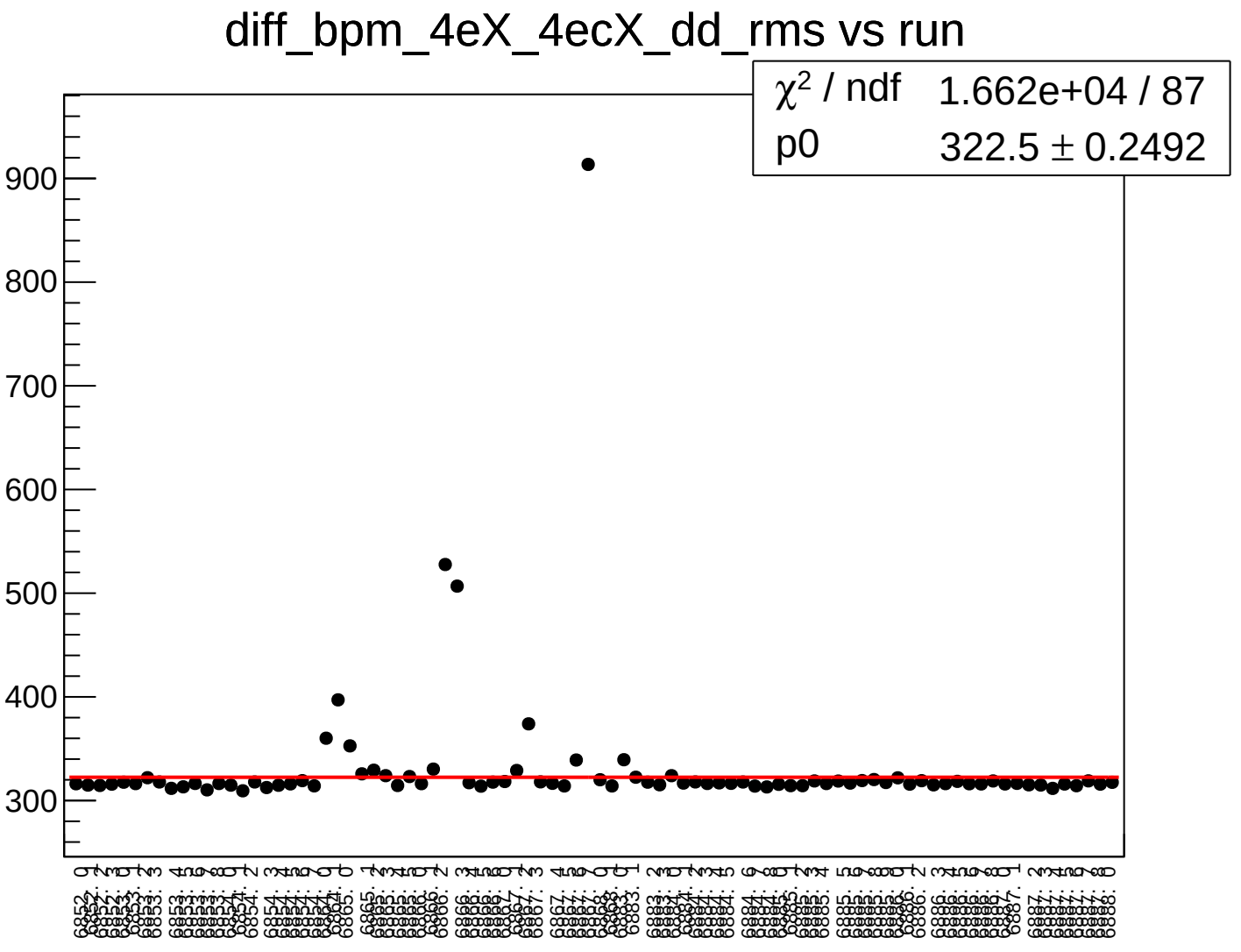

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 79.39 / 87
p0 −28.97 ± 11.69
400
200
0
−200
−400
pull
Entries 88
Mean 583.5
Std Dev 0
2
1
0
−1
−2
−3

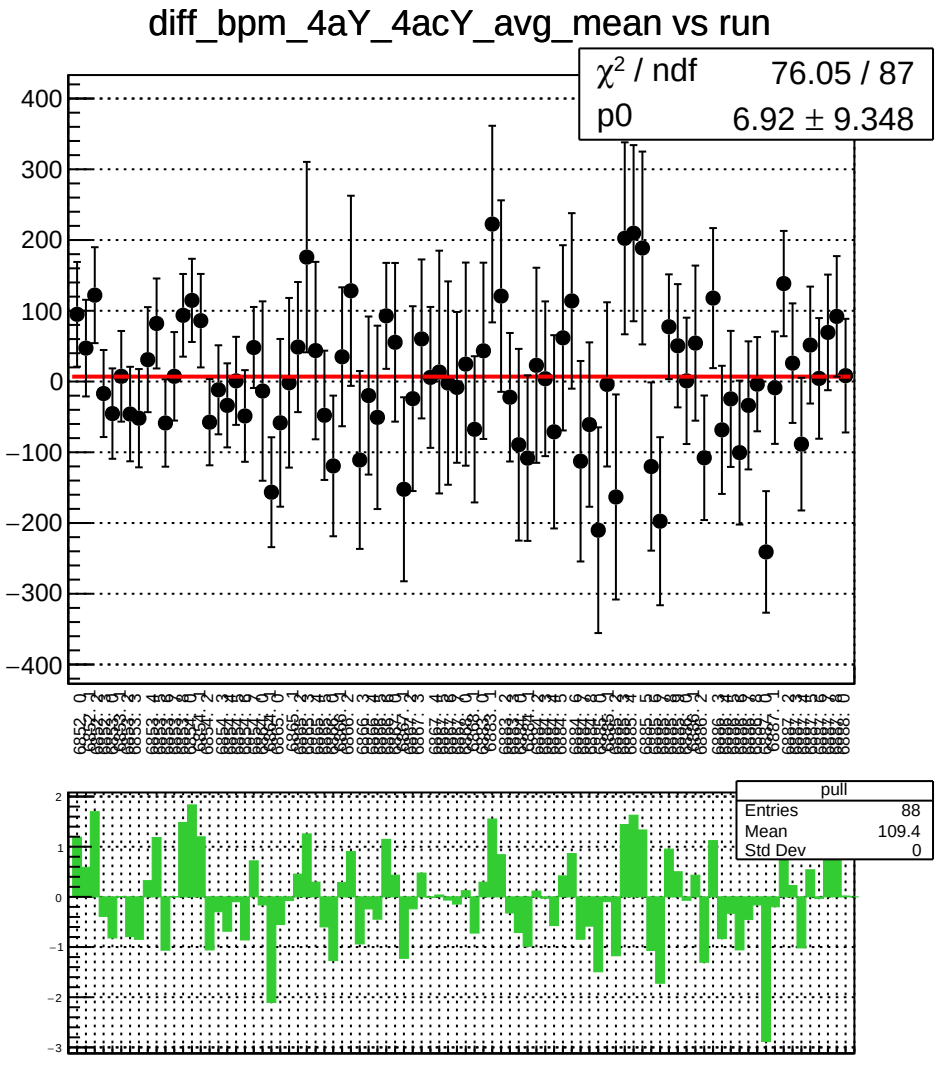

pull1D
Entries 88
Mean 0.006046
Std Dev 0.9498
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

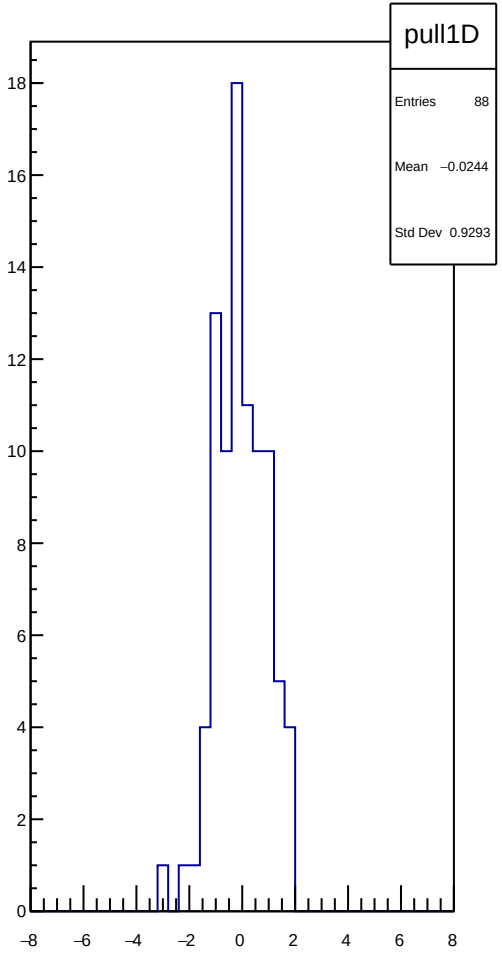

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 2.473e+04 / 87
p0 1.067e+04 ± 8.269
14000
13000
12000
11000
10000
9000

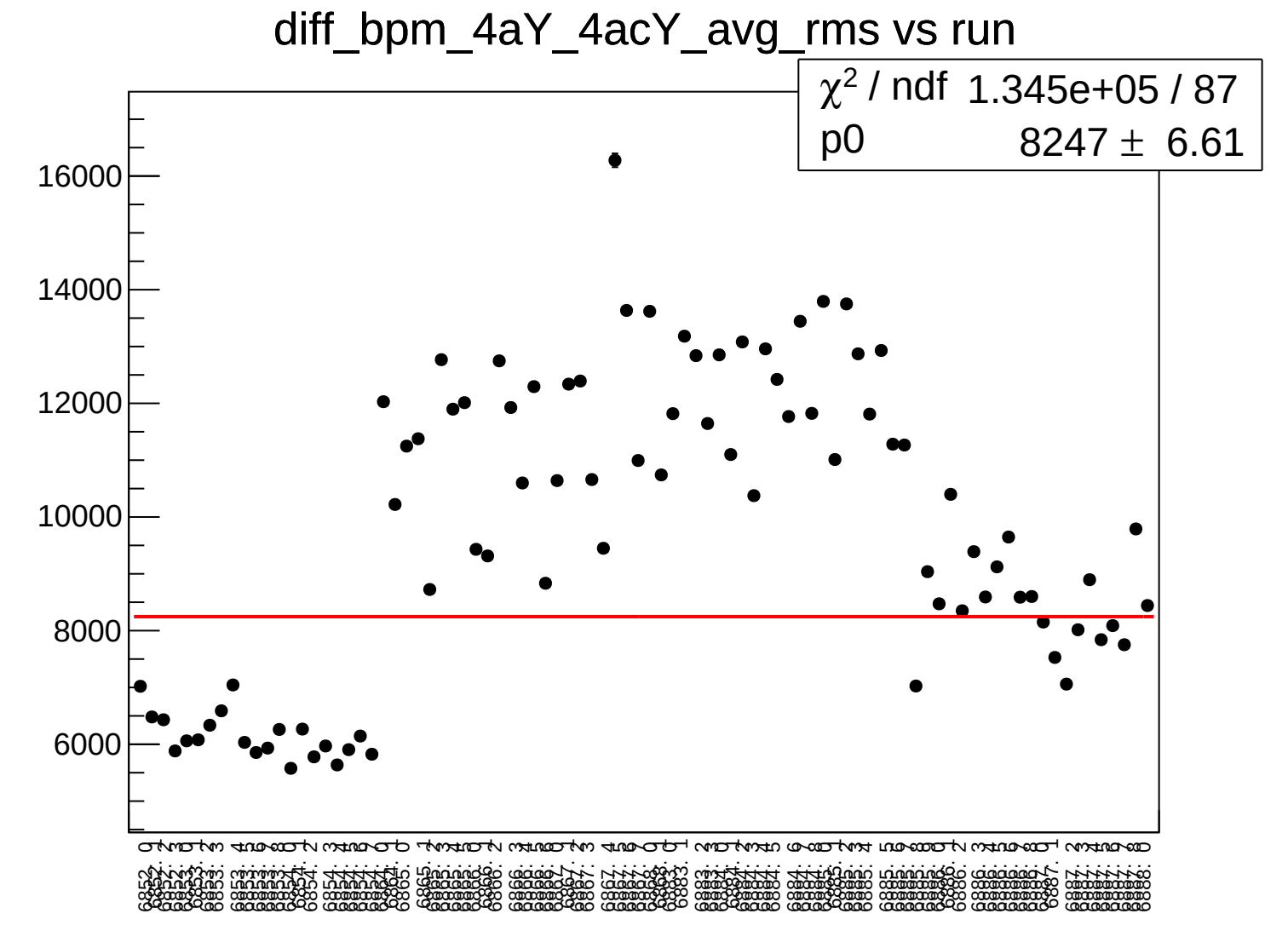

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 73.24 / 87
p0 0.6579 ± 0.3525
pull
Entries 88
Mean −111.7
Std Dev 0

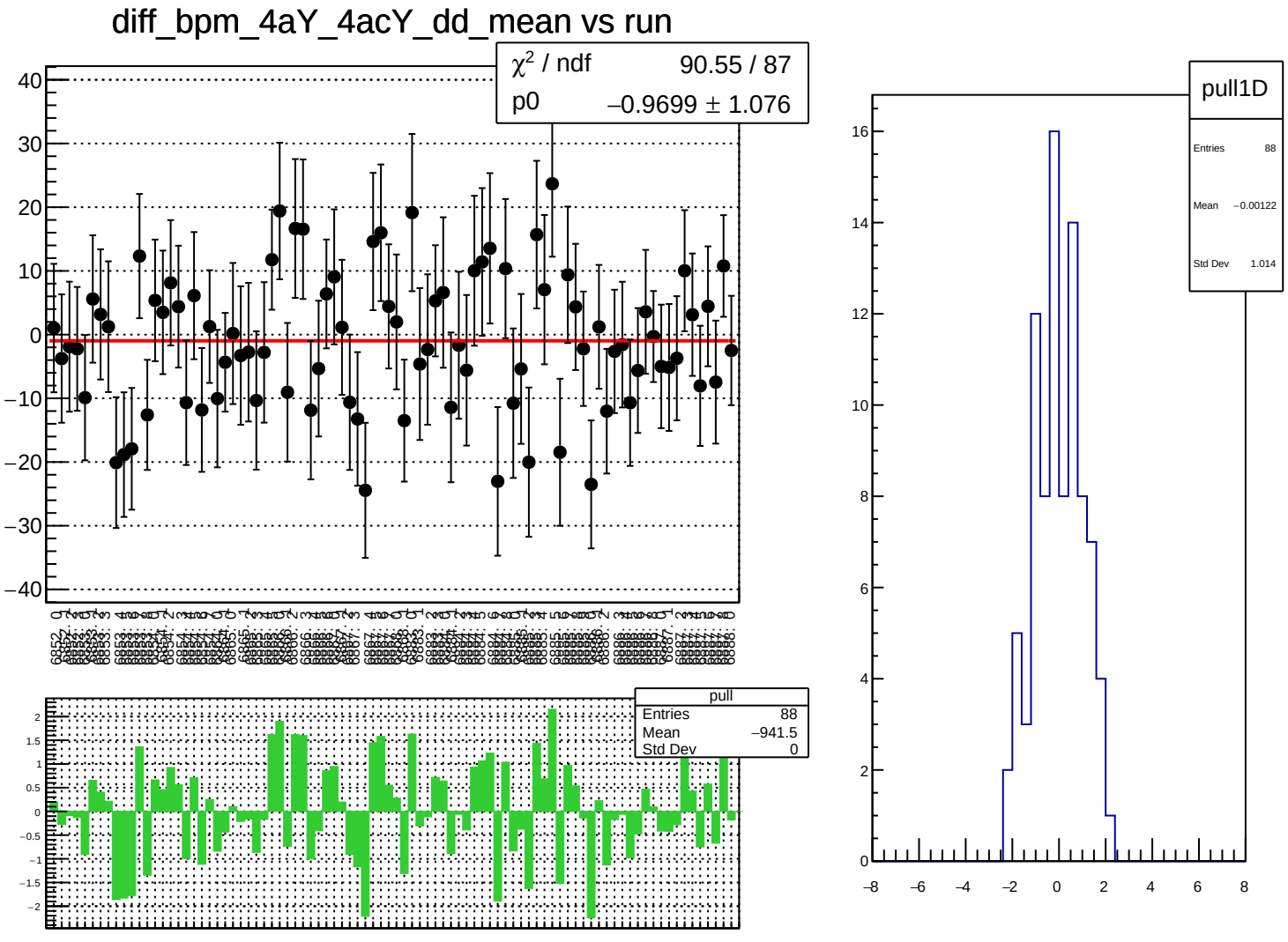

pull1D
Entries 88
Mean −0.01206
Std Dev 0.9122

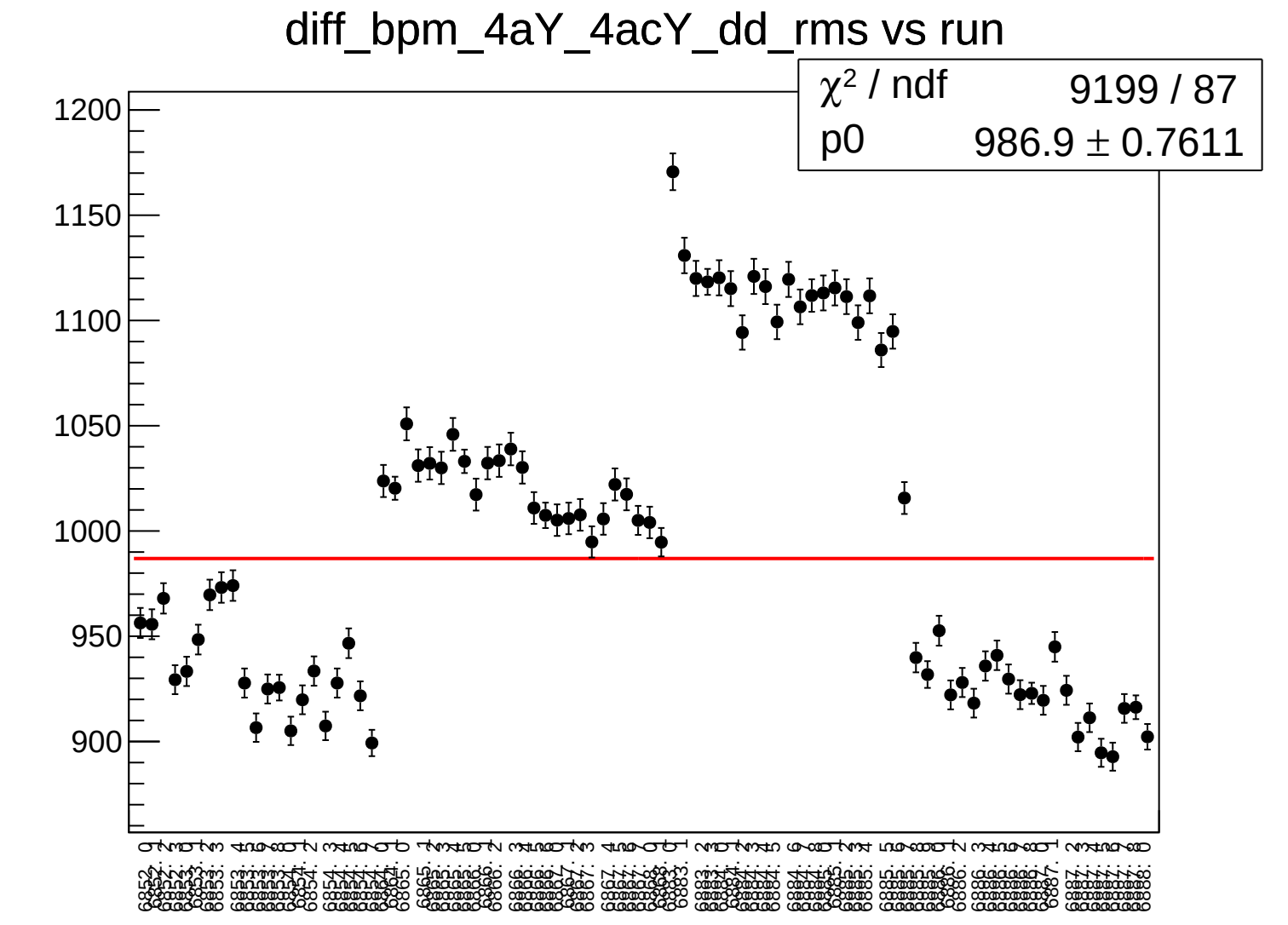

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 1.662e+04 / 87
p0 322.5 ± 0.2492
900
800
700
600
500
400
300

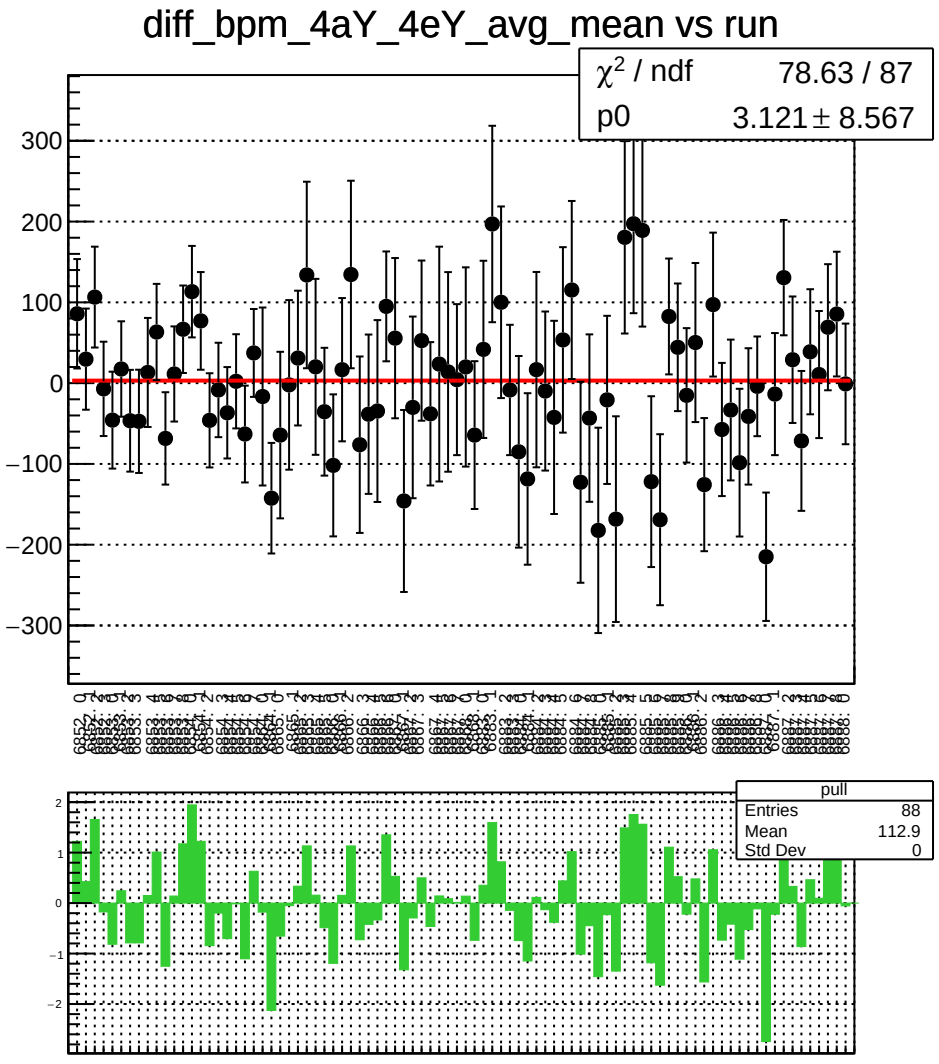

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 76.05 / 87
p0 6.92 ± 9.348
pull
Entries 88
Mean 109.4
Std Dev 0

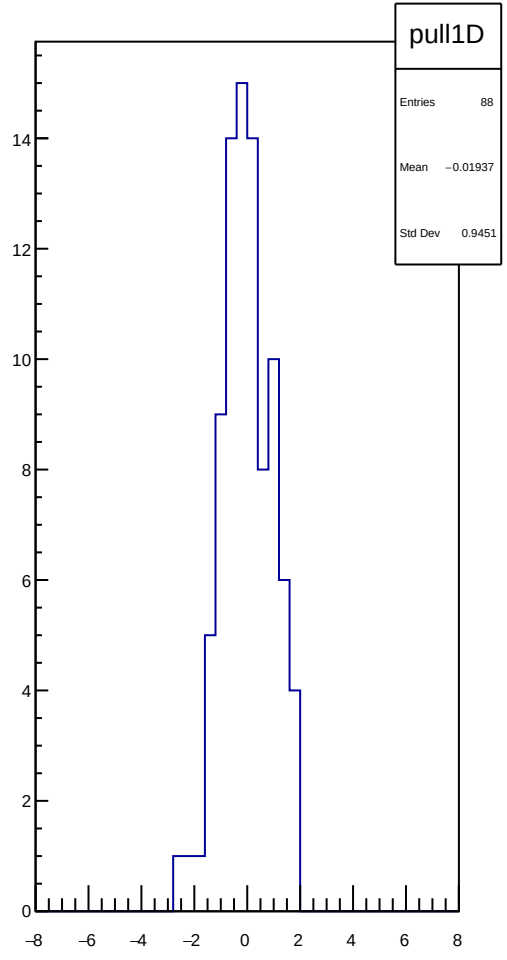

pull1D
Entries 88
Mean −0.0244
Std Dev 0.9293

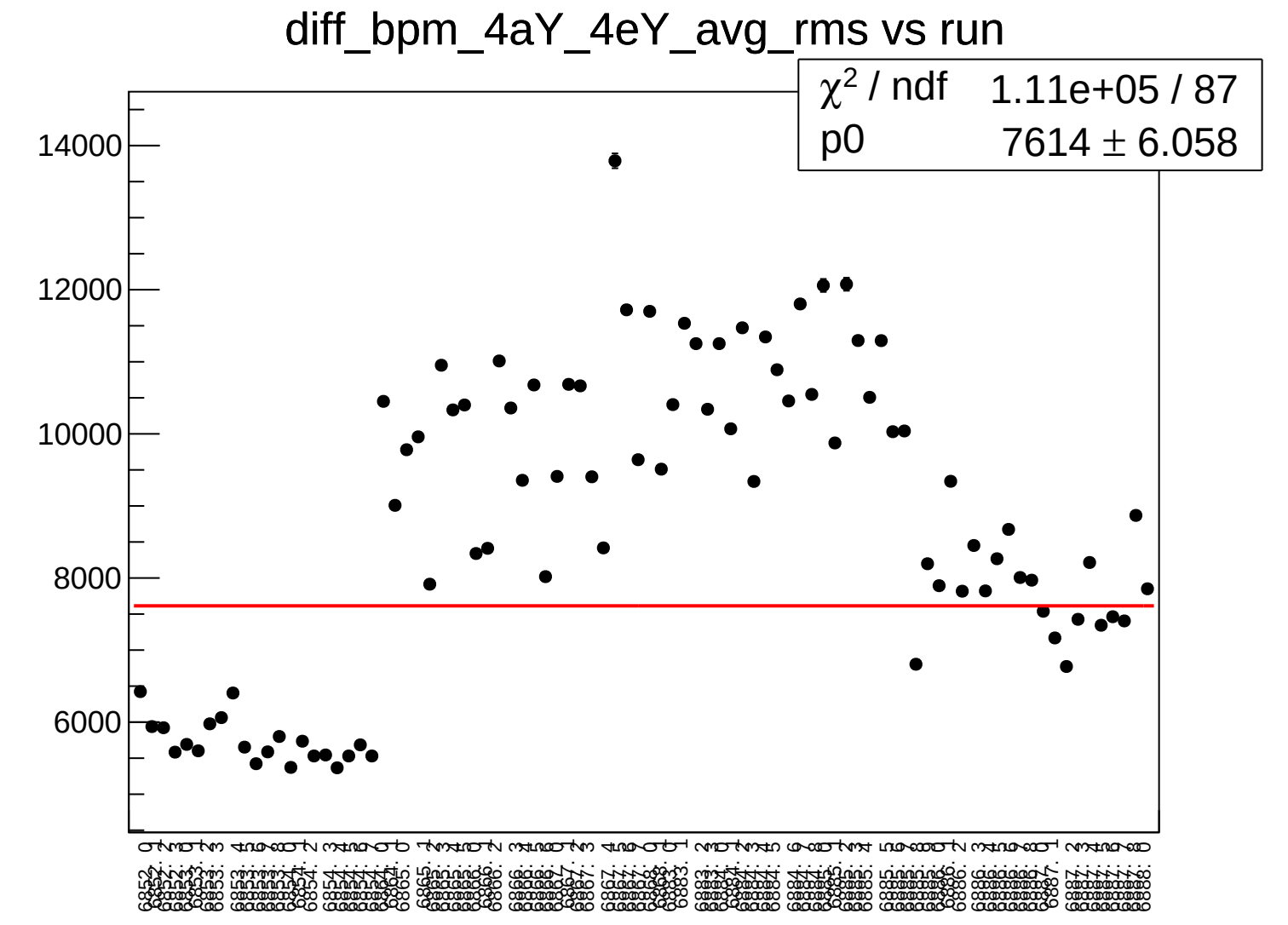

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 1.345e+05 / 87
p0 8247 ± 6.61
16000
14000
12000
10000
8000
6000

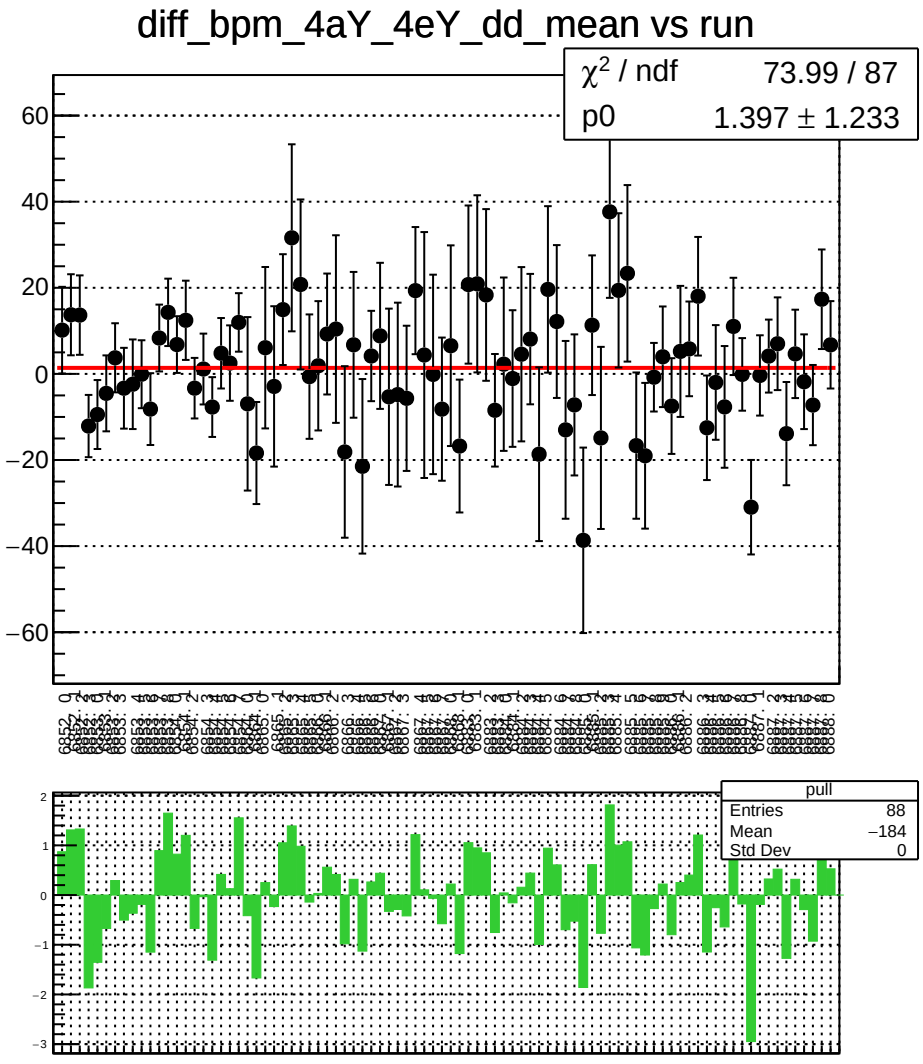

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 90.55 / 87
p0 −0.9699 ± 1.076
pull
Entries 88
Mean −941.5
Std Dev 0
pull1D
Entries 88
Mean −0.00122
Std Dev 1.014

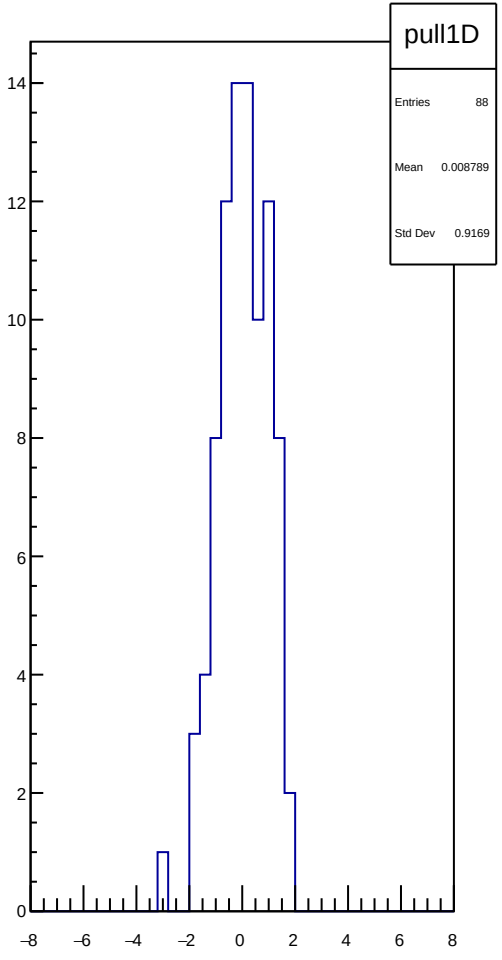

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 9199 / 87
p0 986.9 ± 0.7611
1200
1150
1100
1050
1000
950
900

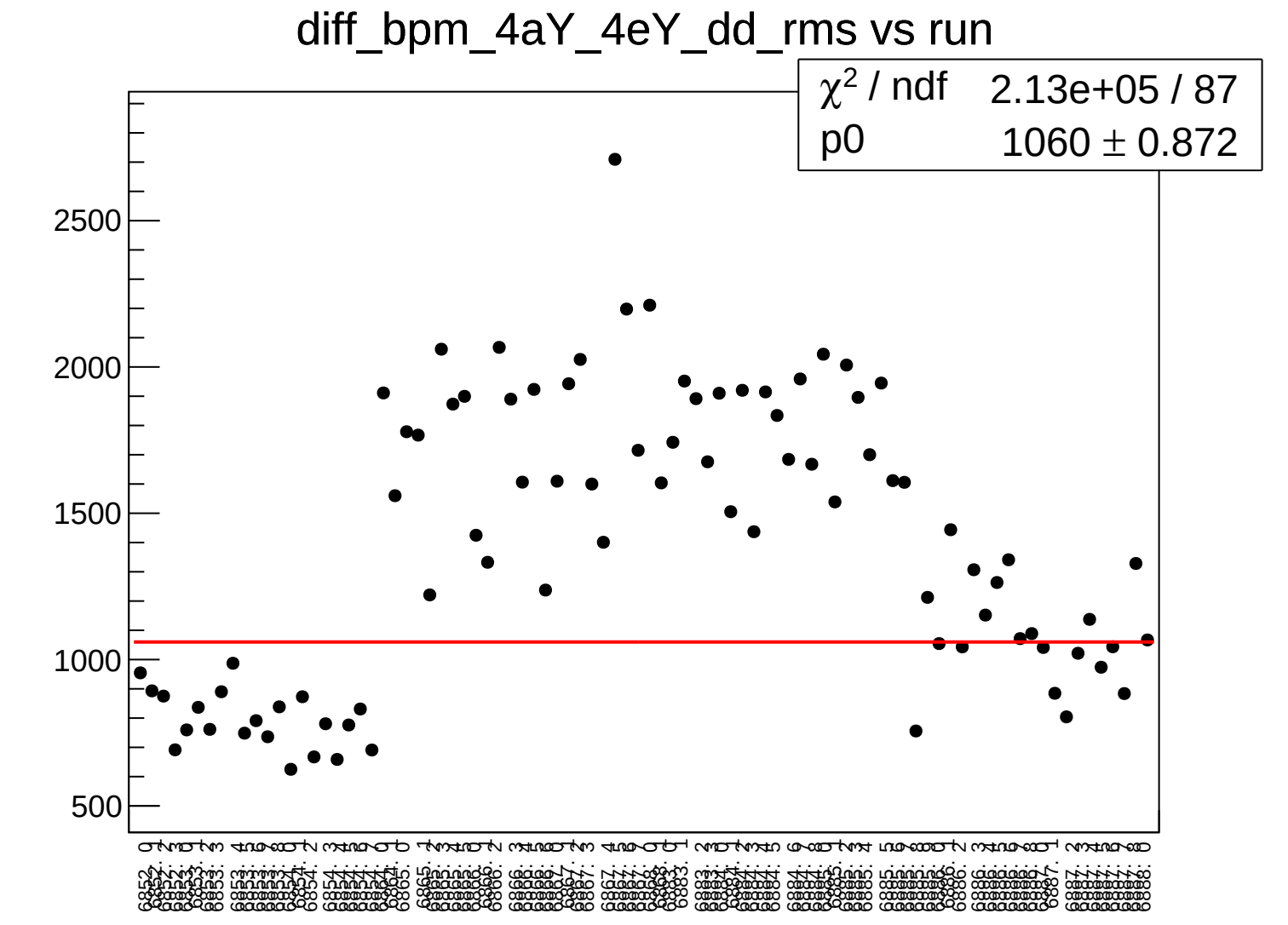

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 78.63 / 87
p0 3.121 ± 8.567
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 112.9
Std Dev 0
2
1
0
−1
−2

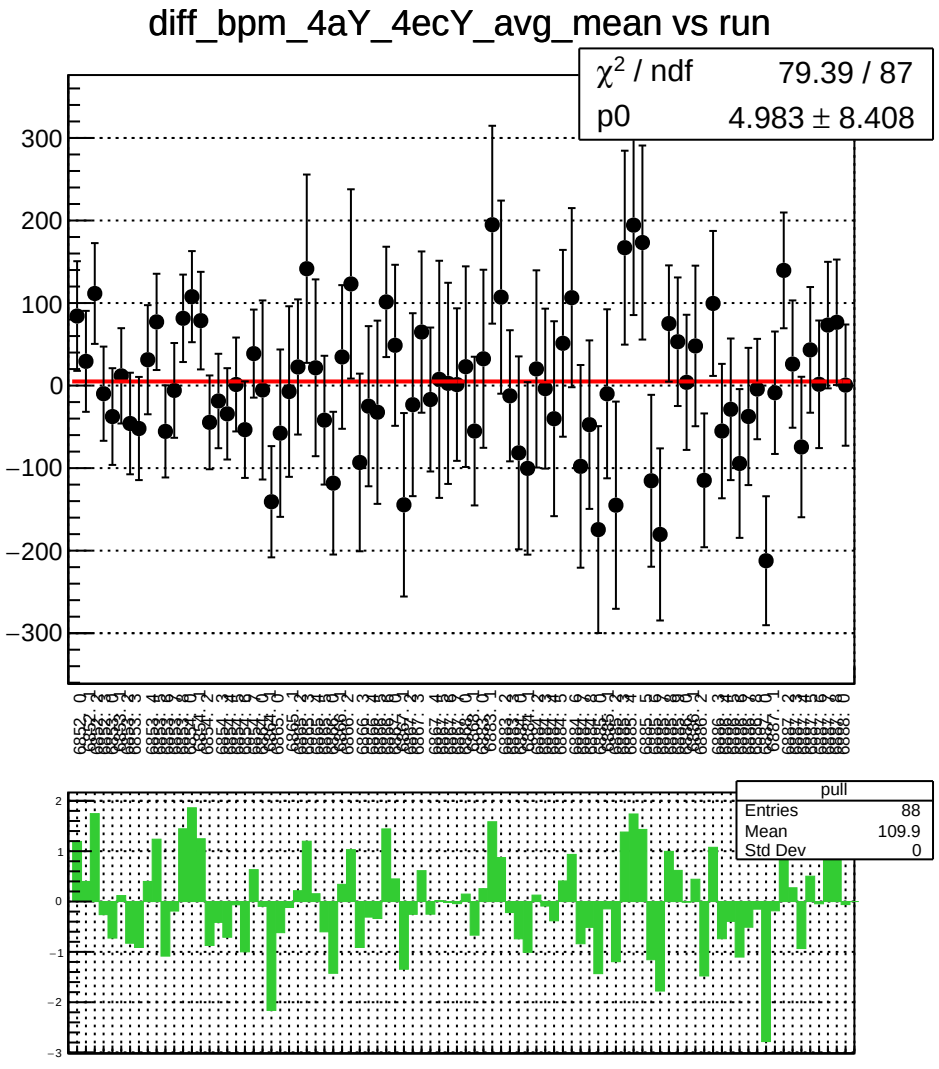

pull1D
Entries 88
Mean −0.01937
Std Dev 0.9451
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

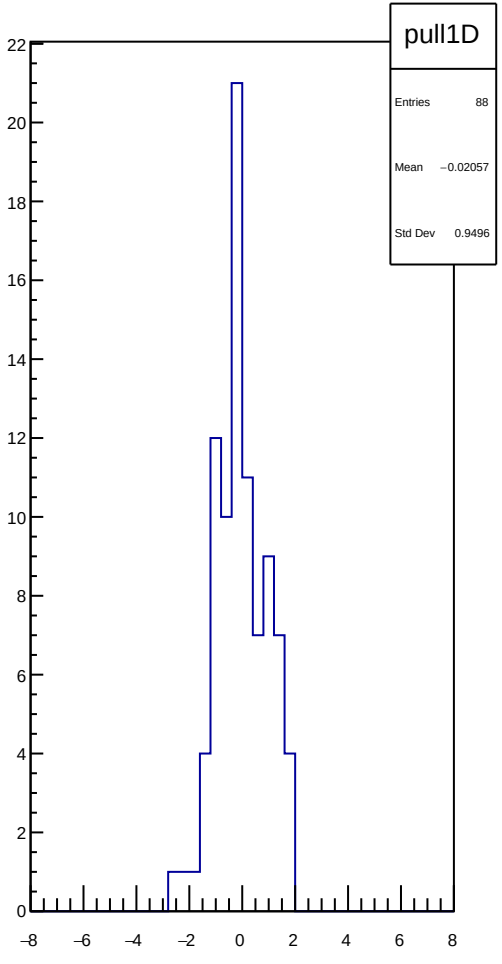

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 1.11e+05 / 87
p0 7614 ± 6.058
14000
12000
10000
8000
6000

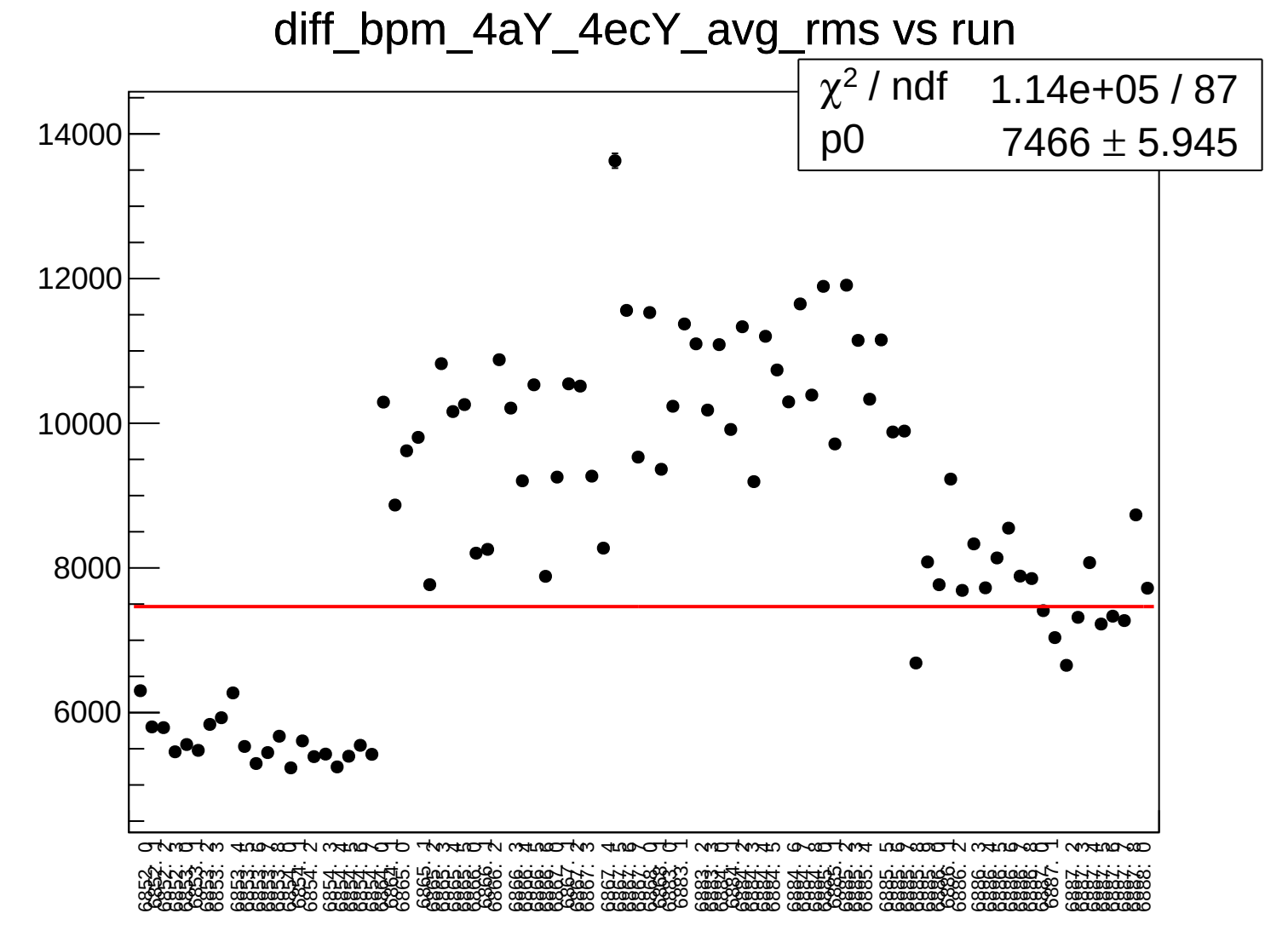

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 73.99 / 87
p0 1.397 ± 1.233
pull
Entries 88
Mean −184
Std Dev 0

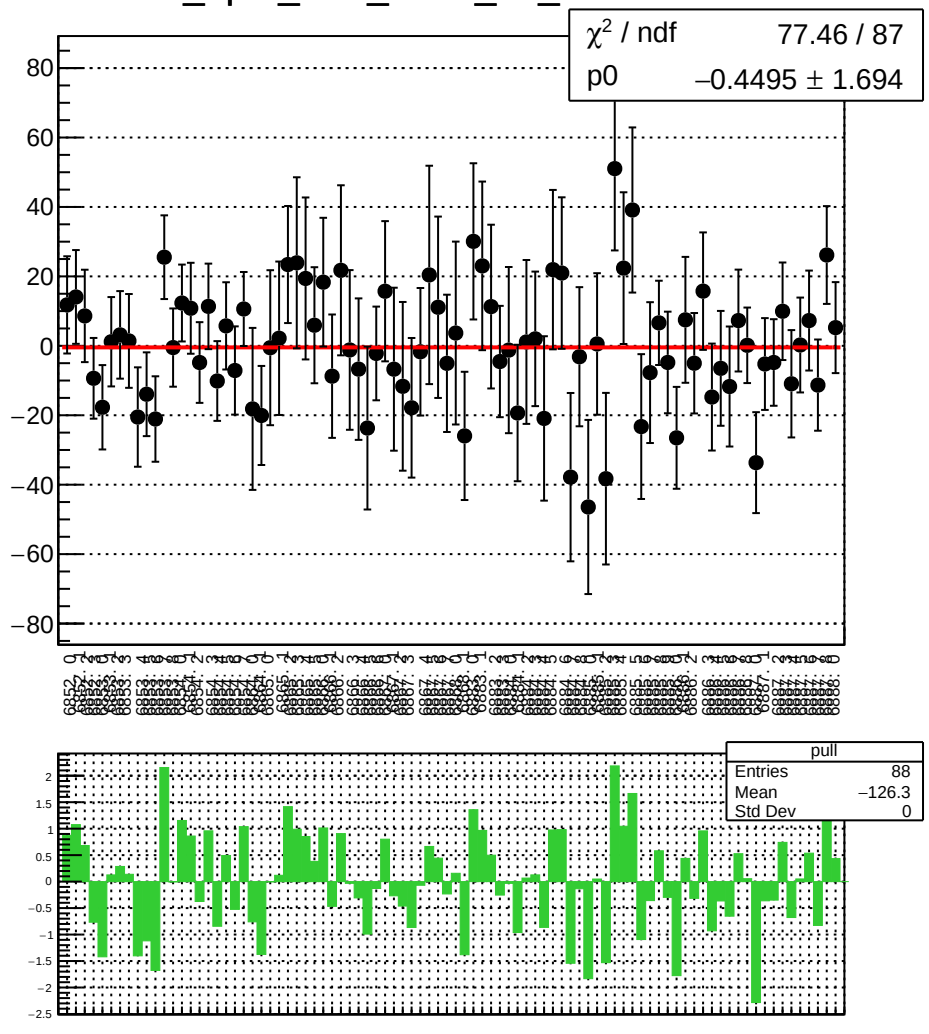

pull1D
Entries 88
Mean 0.008789
Std Dev 0.9169

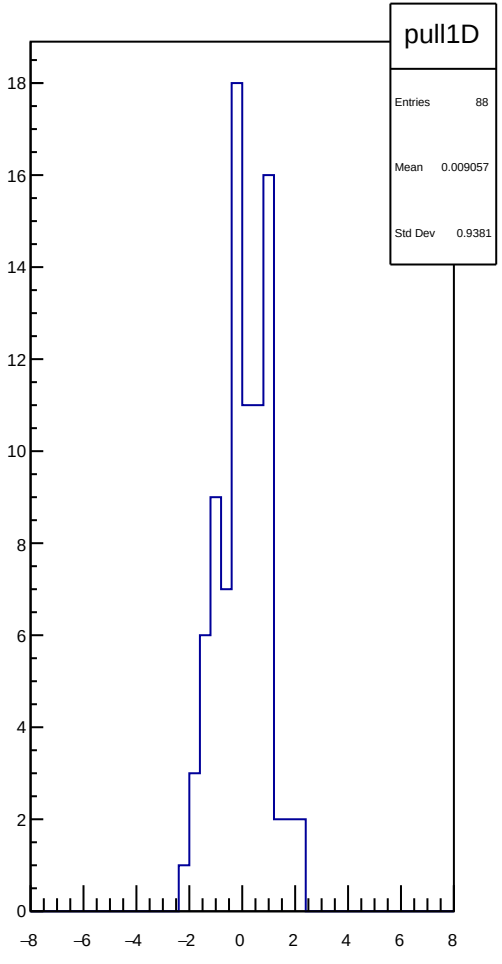

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 2.13e+05 / 87
p0 1060 ± 0.872
2500
2000
1500
1000
500

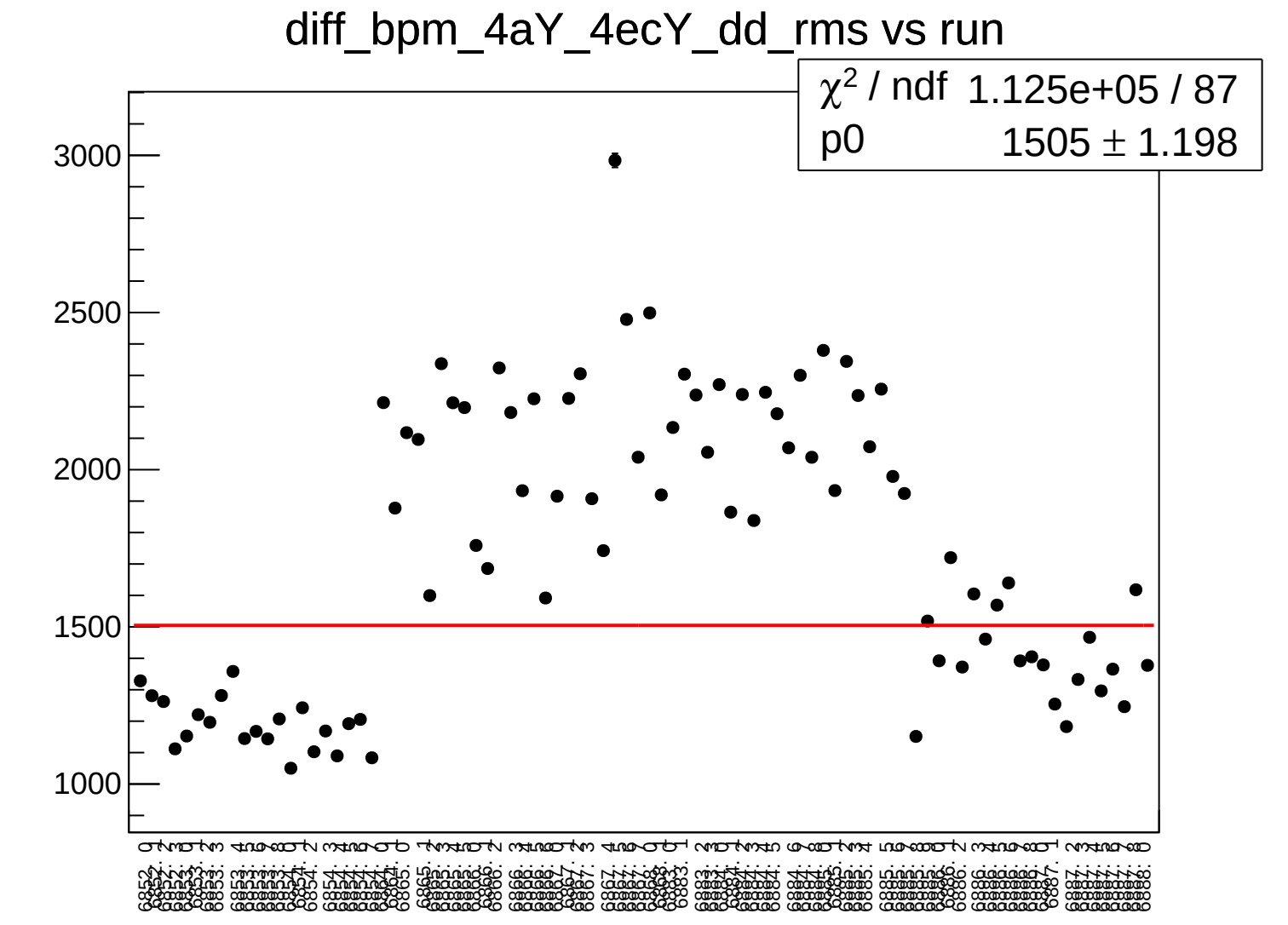

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 79.39 / 87
p0 4.983 ± 8.408
pull
Entries 88
Mean 109.9
Std Dev 0

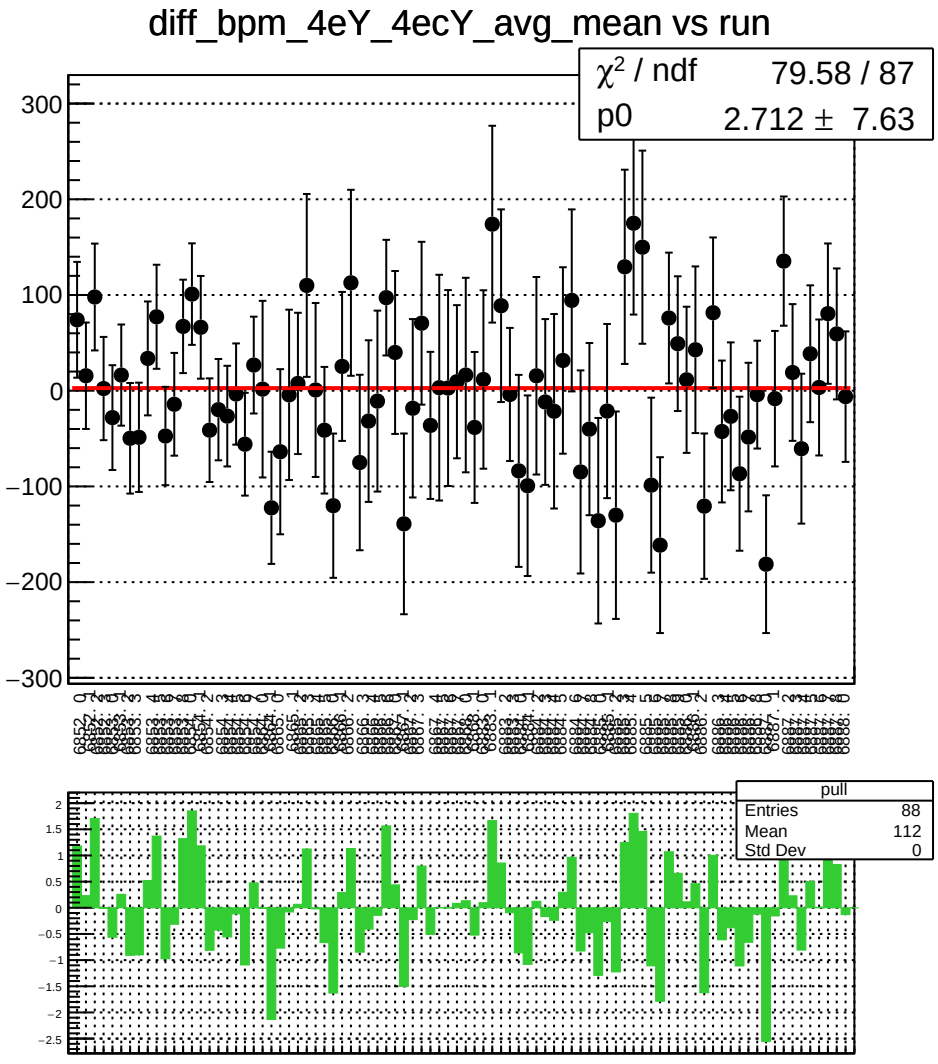

pull1D
Entries 88
Mean −0.02057
Std Dev 0.9496

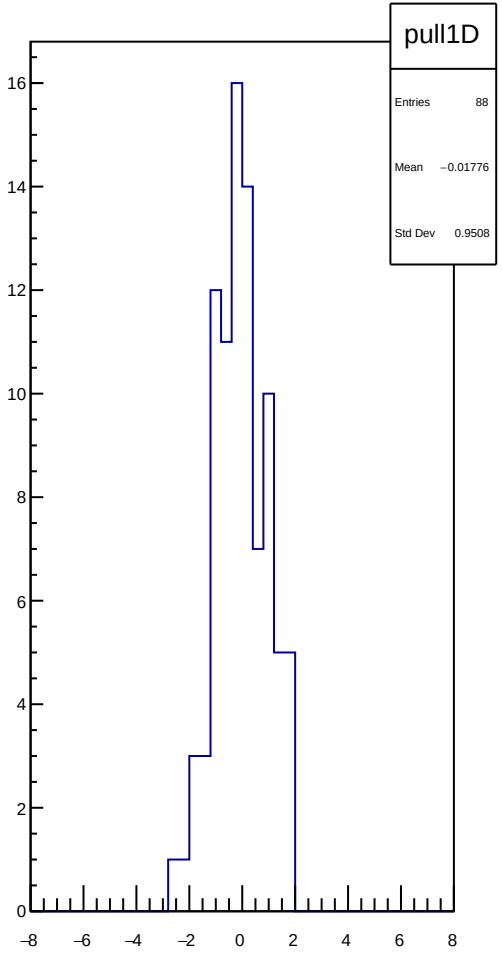

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 1.14e+05 / 87
p0 7466 ± 5.945
14000
12000
10000
8000
6000

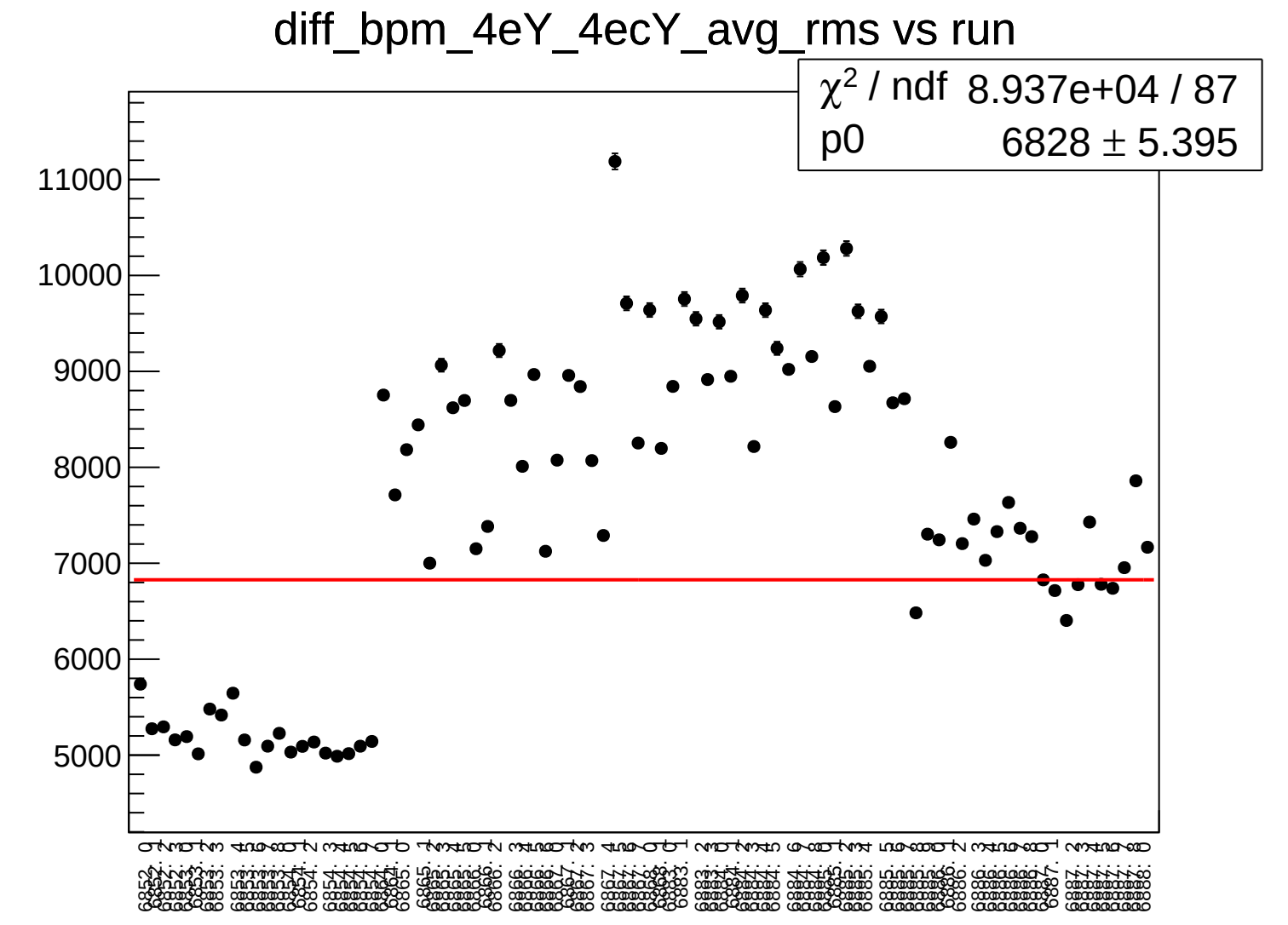

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 77.46 / 87
p0 −0.4495 ± 1.694
pull
Entries 88
Mean −126.3
Std Dev 0

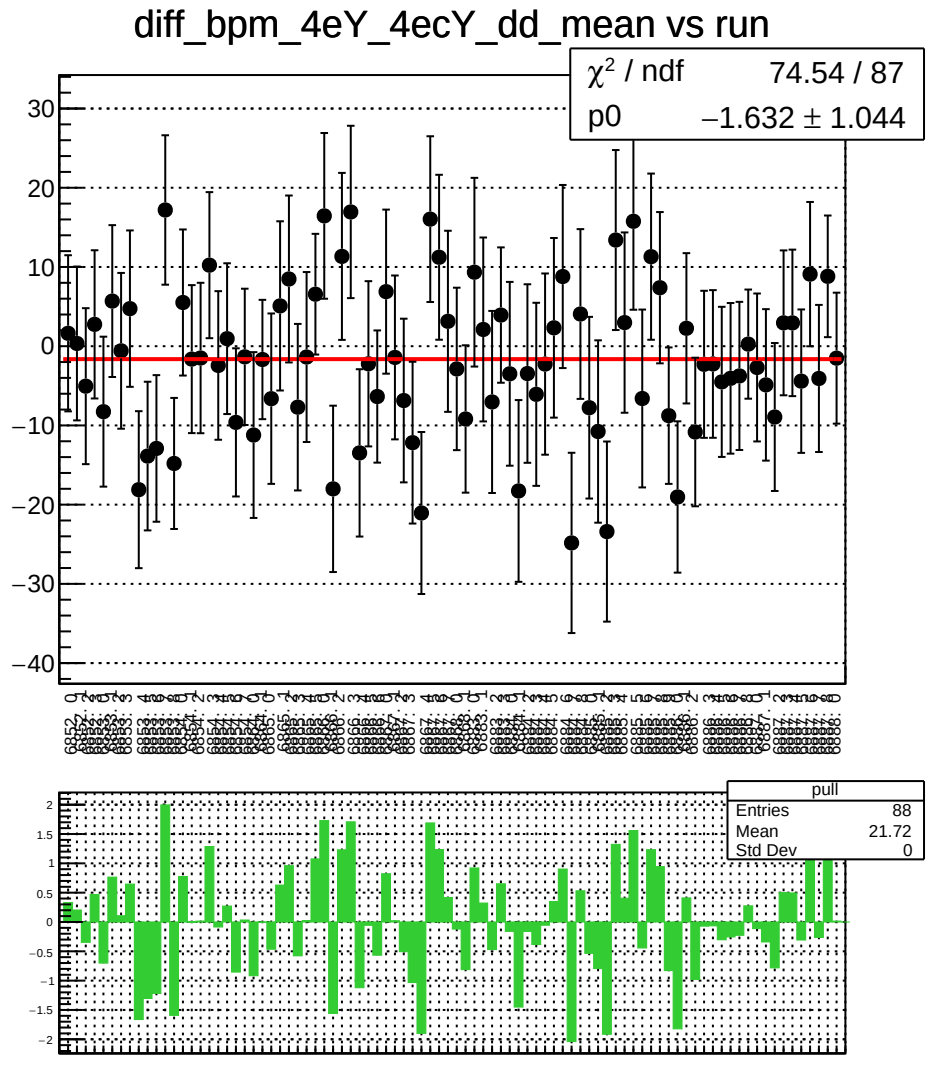

pull1D
Entries 88
Mean 0.009057
Std Dev 0.9381

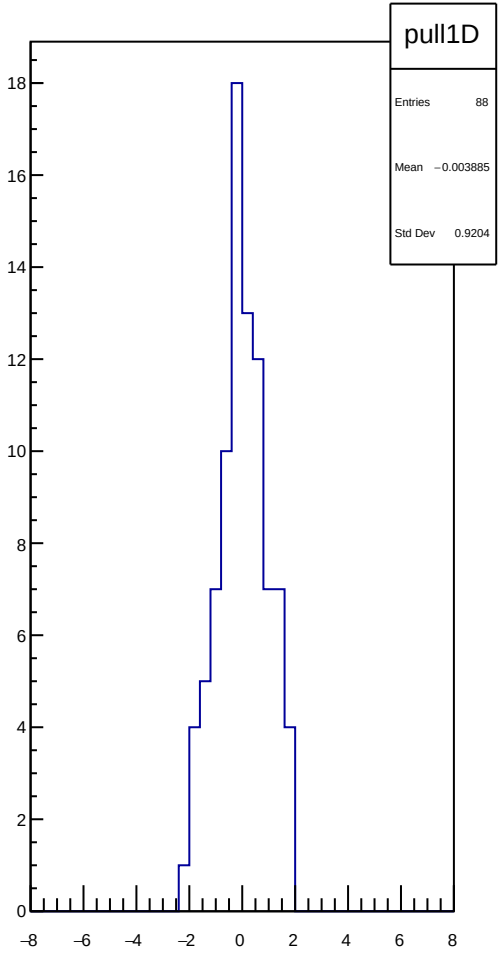

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1.125e+05 / 87
p0 1505 ± 1.198
3000
2500
2000
1500
1000

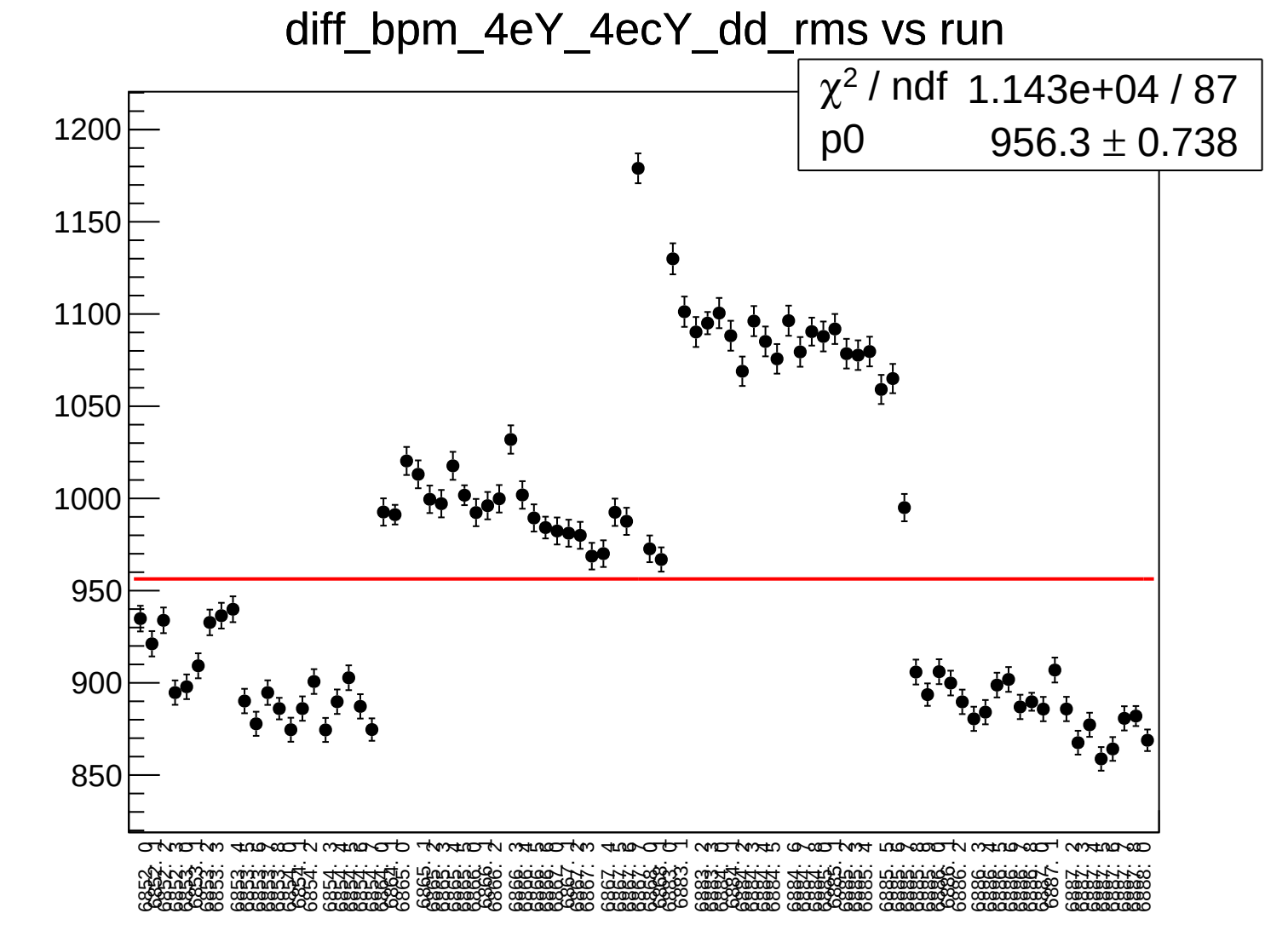

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 79.58 / 87
p0 2.712 ± 7.63
pull
Entries 88
Mean 112
Std Dev 0

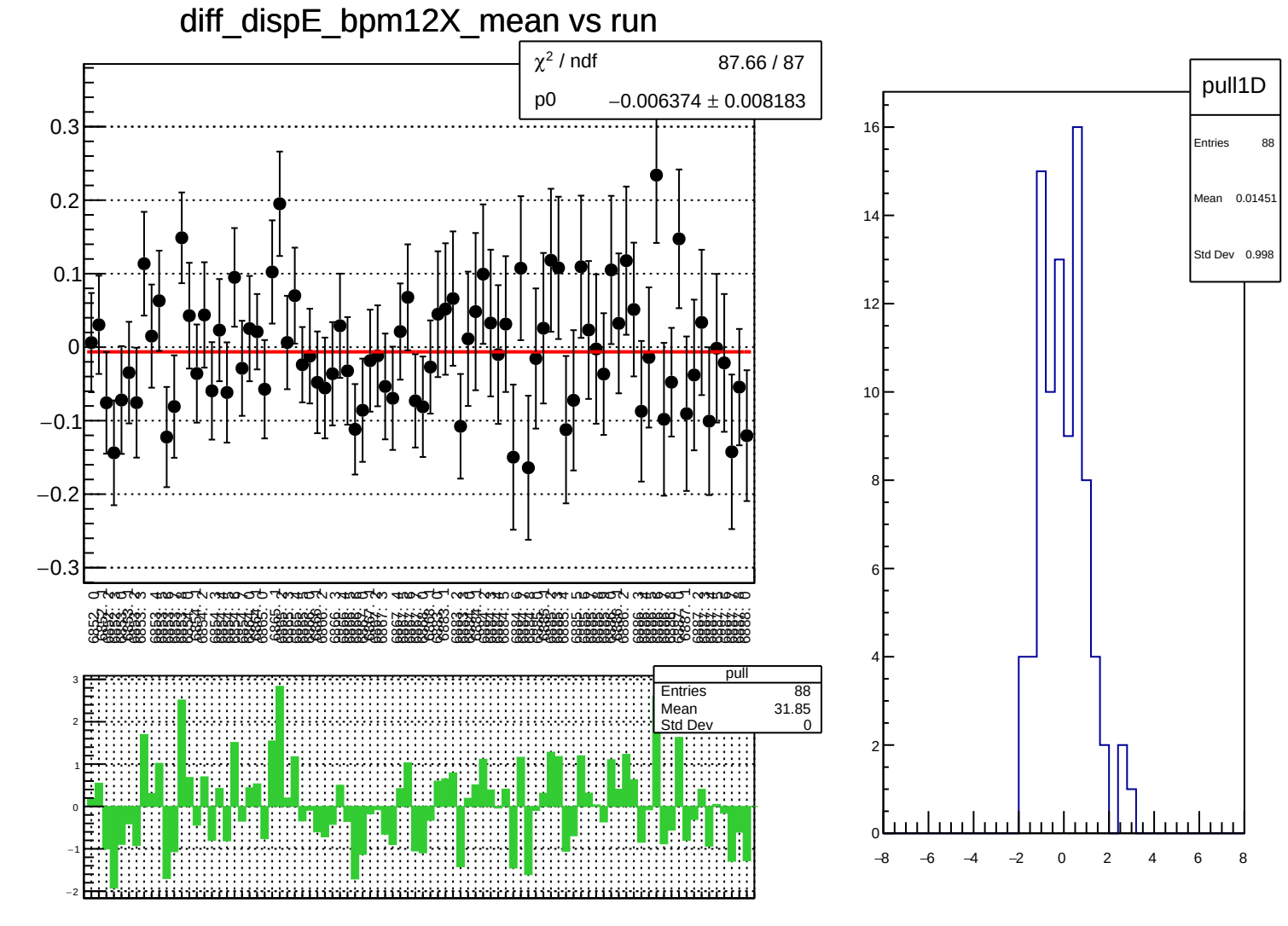

pull1D
Entries 88
Mean −0.01776
Std Dev 0.9508

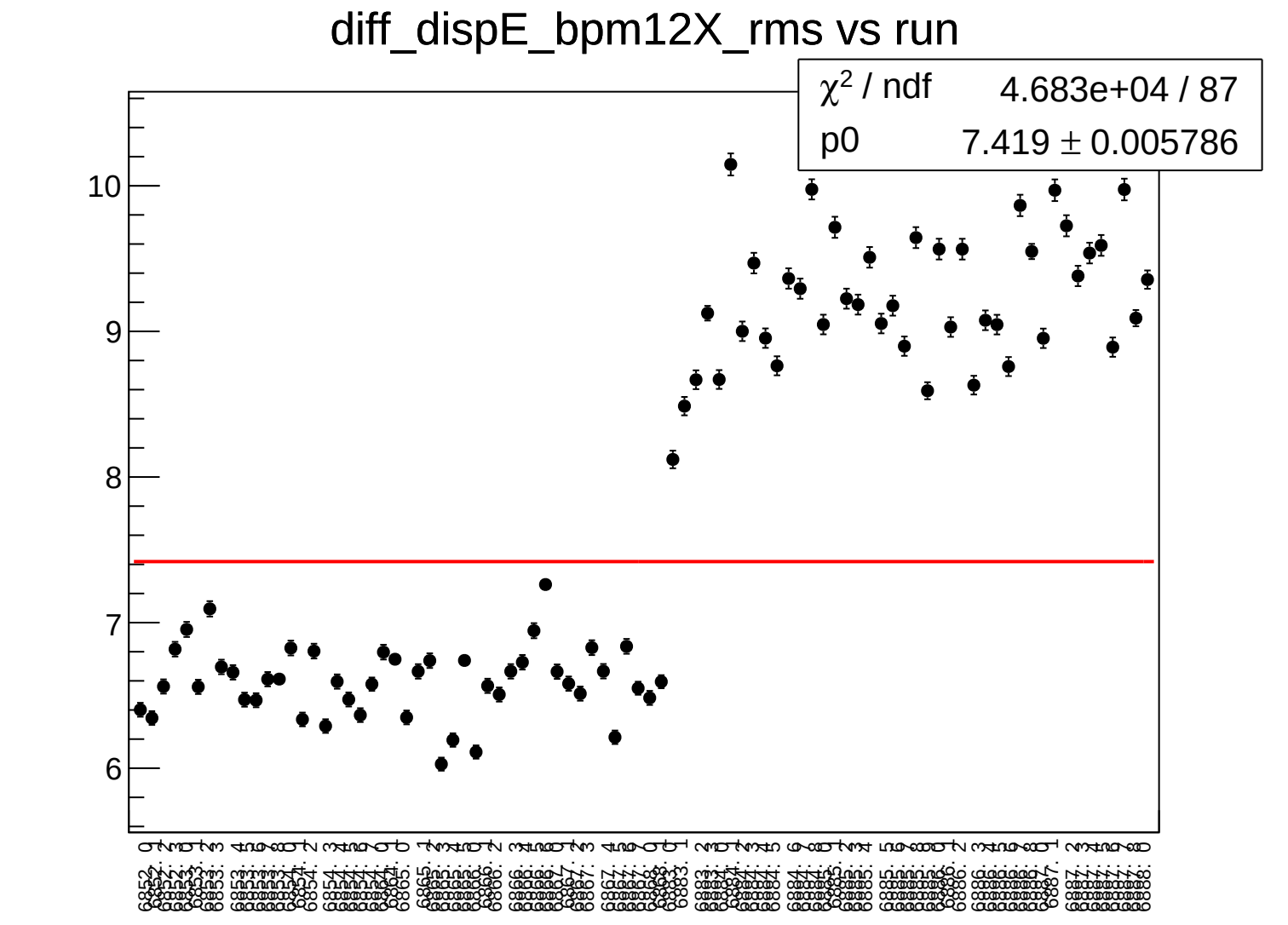

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 8.937e+04 / 87
p0 6828 ± 5.395
11000
10000
9000
8000
7000
6000
5000

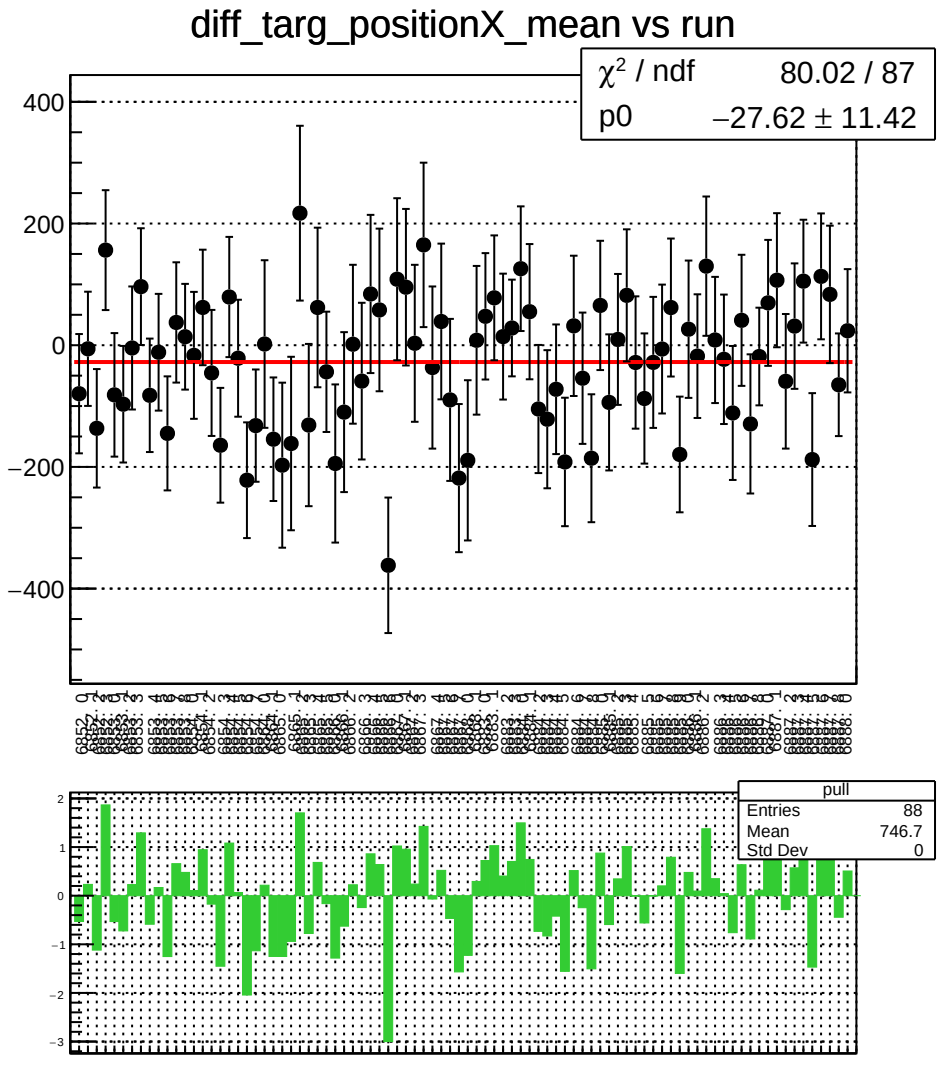

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 74.54 / 87
p0 −1.632 ± 1.044
pull
Entries 88
Mean 21.72
Std Dev 0

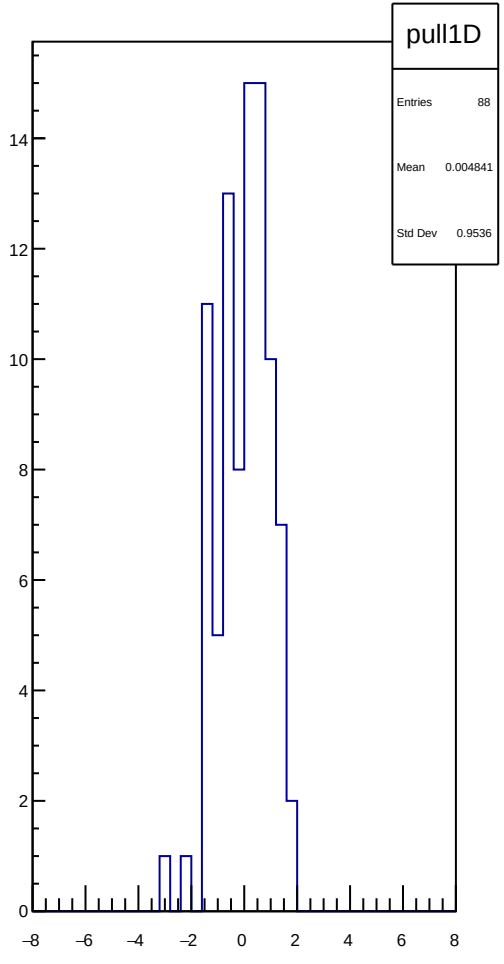

pull1D
Entries 88
Mean −0.003885
Std Dev 0.9204

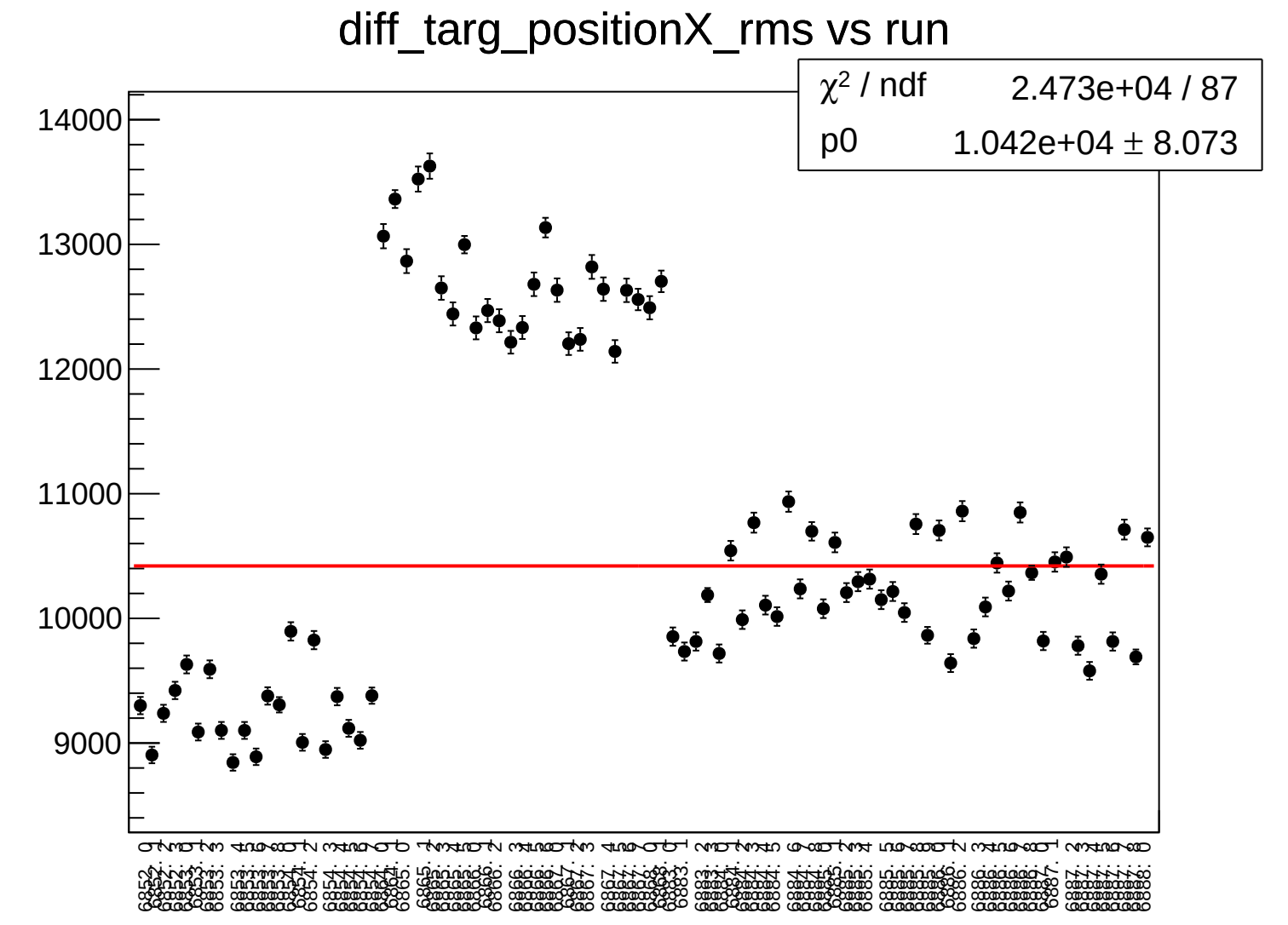

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 1.143e+04 / 87
p0 956.3 ± 0.738
1200
1150
1100
1050
1000
950
900
850

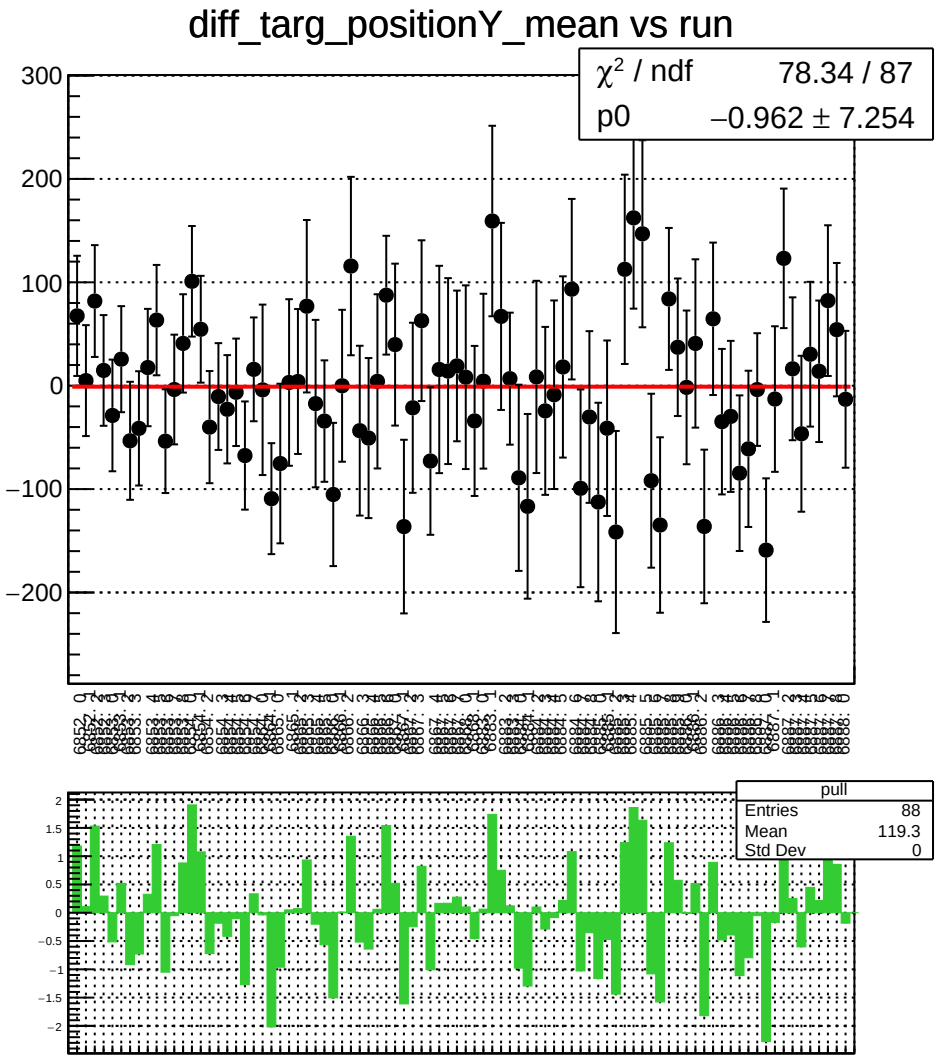

diff_dispE_bpm12X_mean vs run
χ² / ndf 87.66 / 87
p0 −0.006374 ± 0.008183
pull
Entries 88
Mean 31.85
Std Dev 0
pull1D
Entries 88
Mean 0.01451
Std Dev 0.998

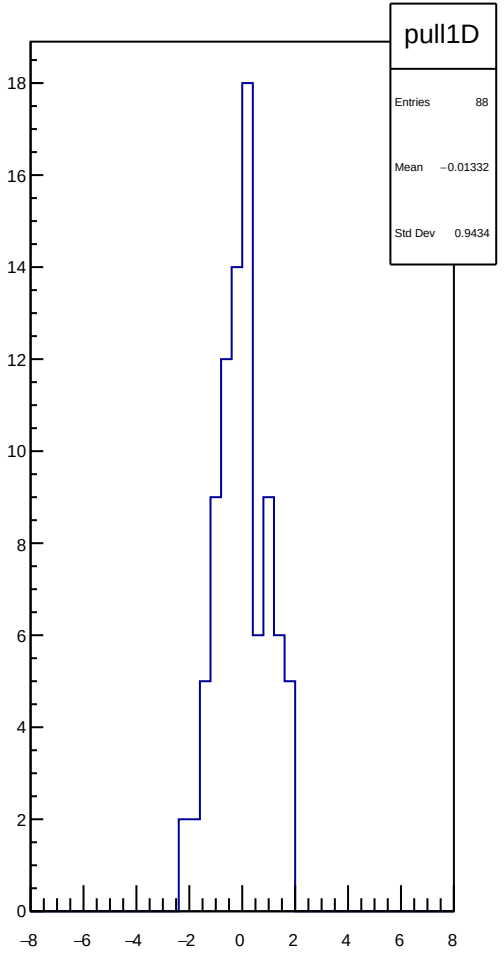

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 4.683e+04 / 87
p0 7.419 ± 0.005786
10
9
8
7
6

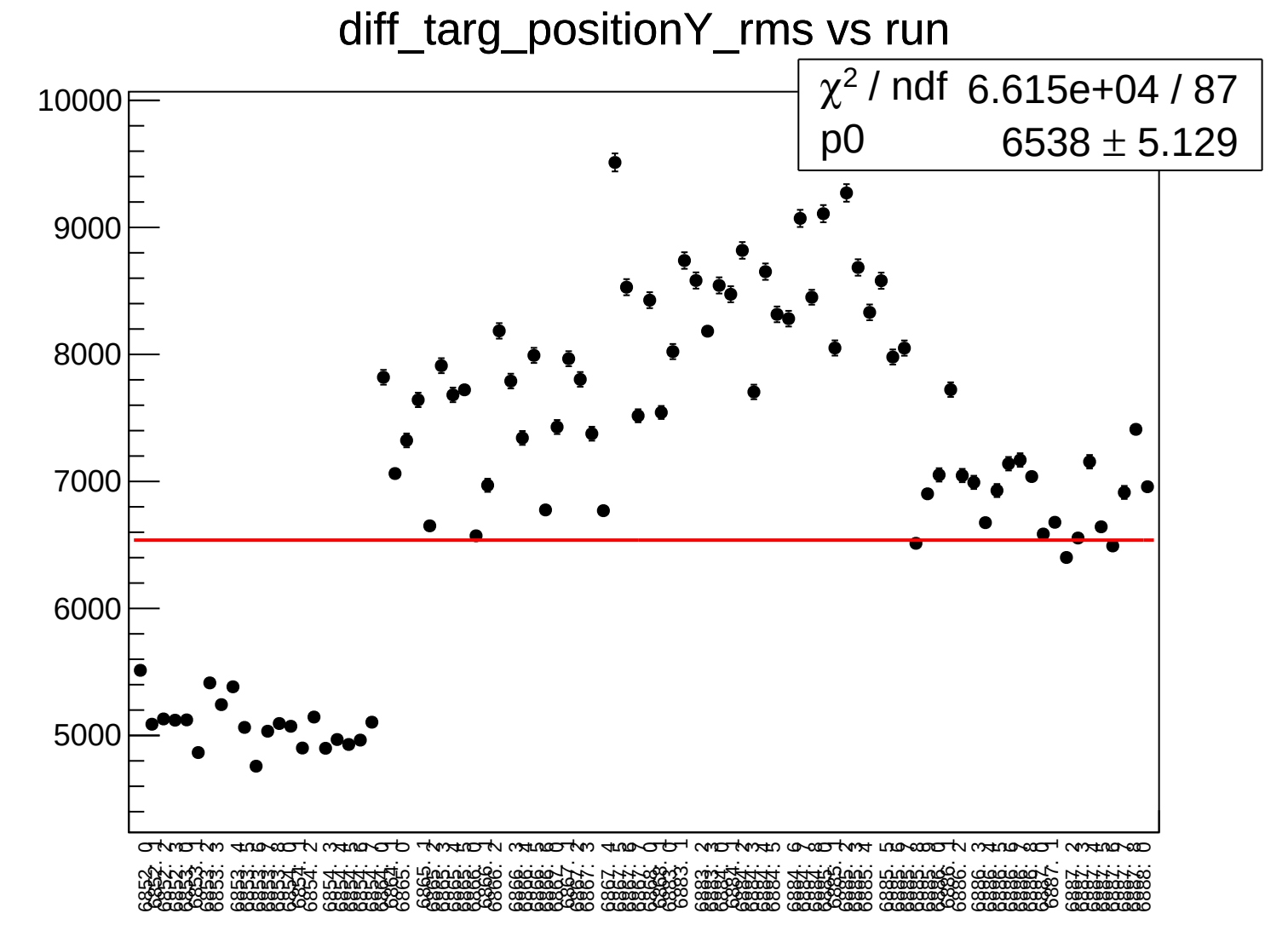

diff_targ_positionX_mean vs run
χ² / ndf 80.02 / 87
p0 −27.62 ± 11.42
400
200
0
−200
−400
pull
Entries 88
Mean 746.7
Std Dev 0
2
1
0
−1
−2
−3

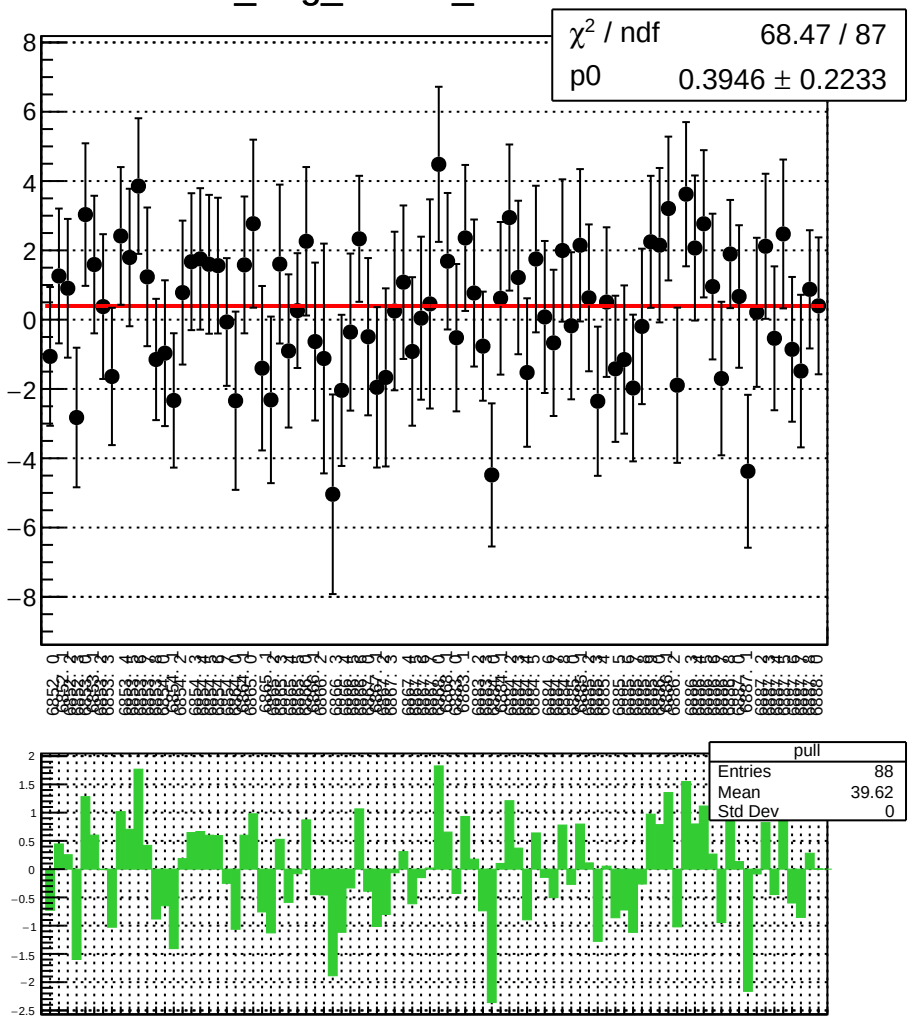

pull1D
Entries 88
Mean 0.004841
Std Dev 0.9536
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

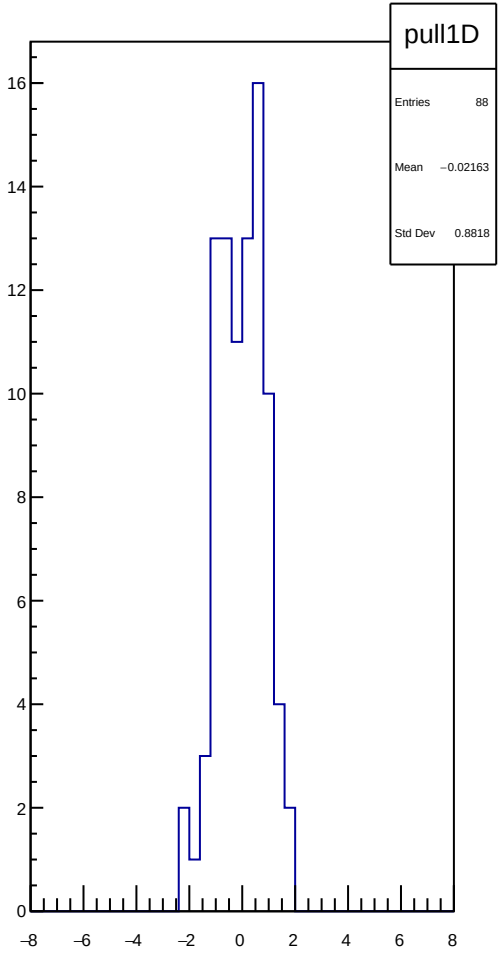

diff_targ_positionX_rms vs run
χ² / ndf 2.473e+04 / 87
p0 1.042e+04 ± 8.073
14000
13000
12000
11000
10000
9000

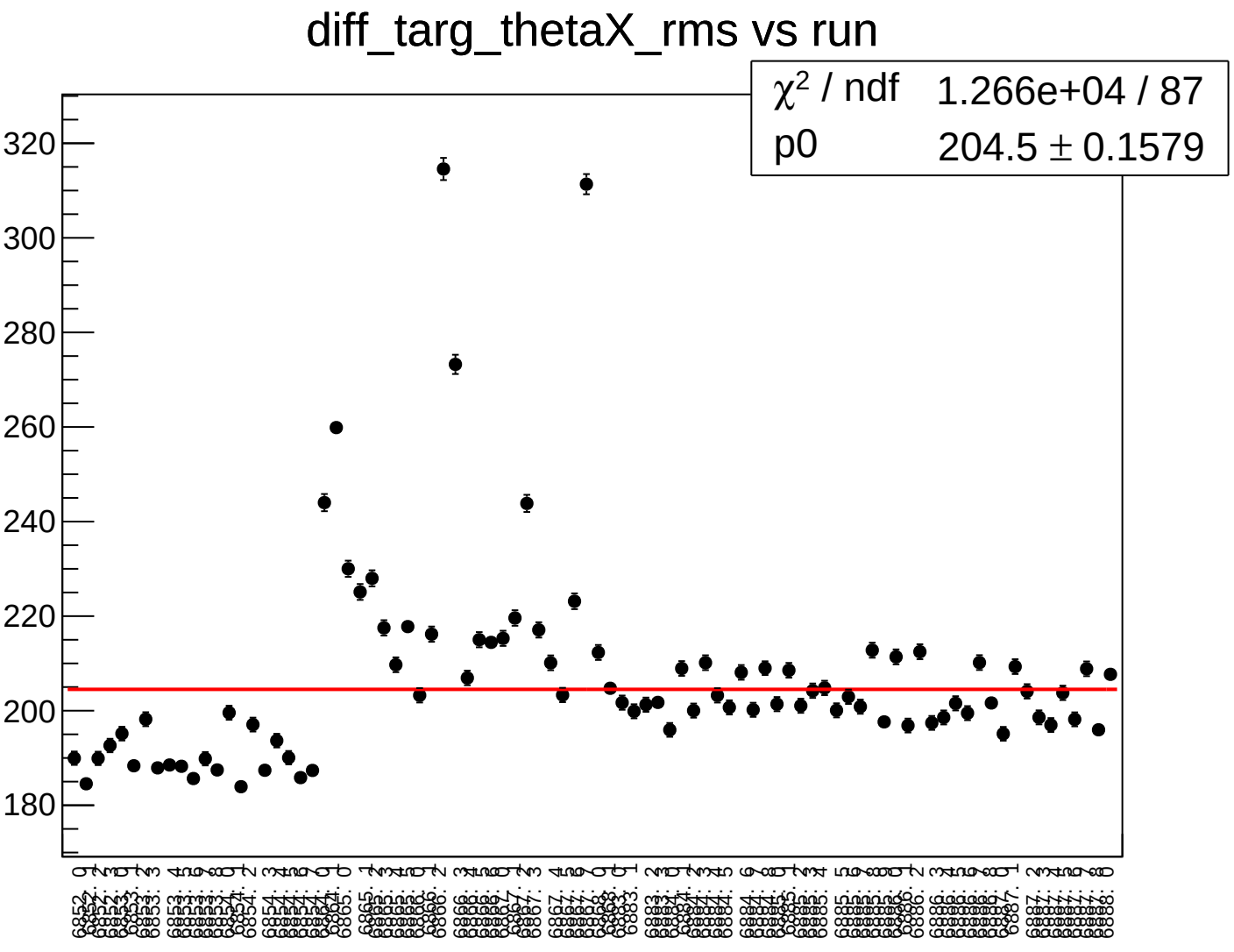

diff_targ_positionY_mean vs run
χ² / ndf 78.34 / 87
p0 −0.962 ± 7.254
pull
Entries 88
Mean 119.3
Std Dev 0

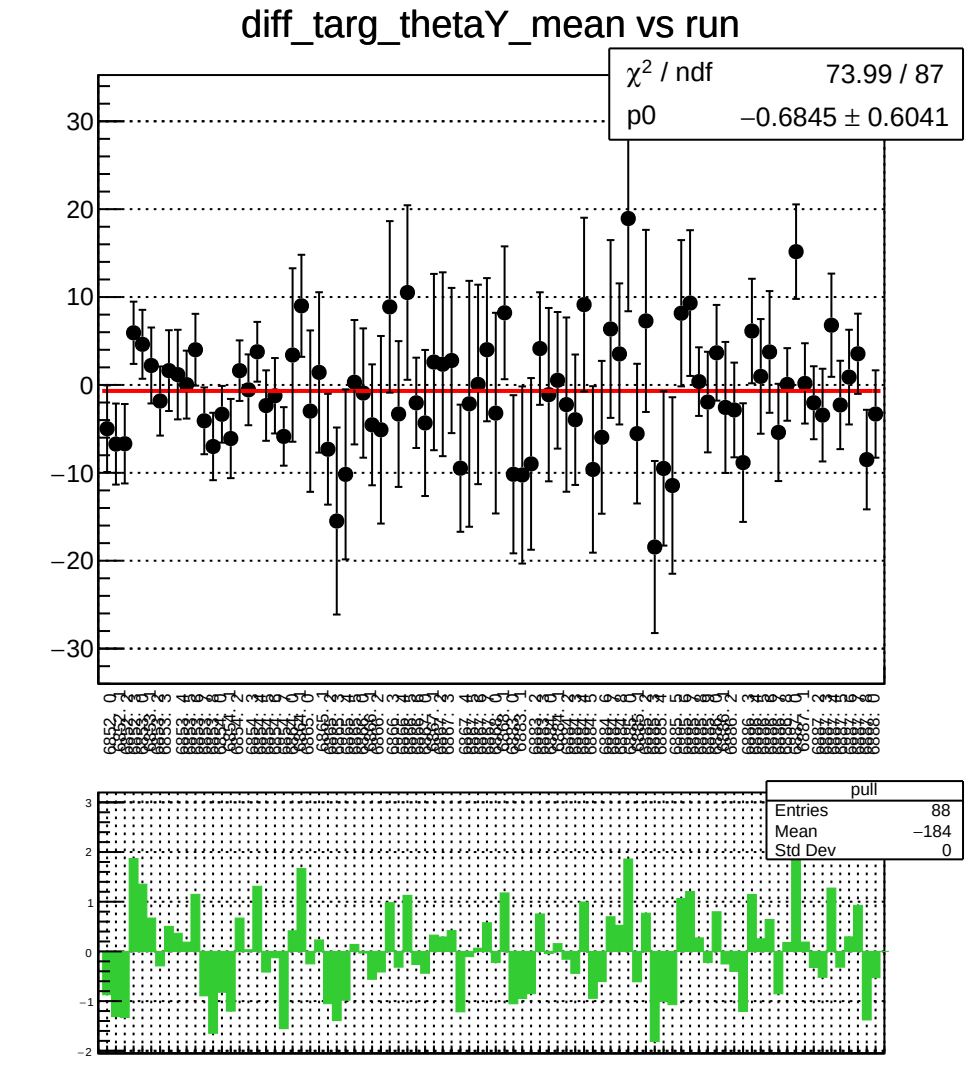

pull1D
Entries 88
Mean −0.01332
Std Dev 0.9434

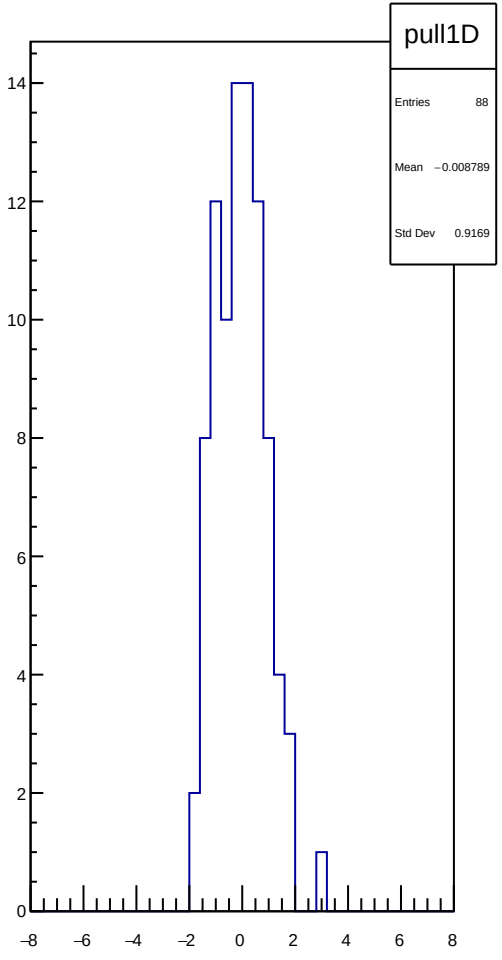

diff_targ_positionY_rms vs run
χ^2 / ndf 6.615e+04 / 87
p0 6538 ± 5.129
10000
9000
8000
7000
6000
5000

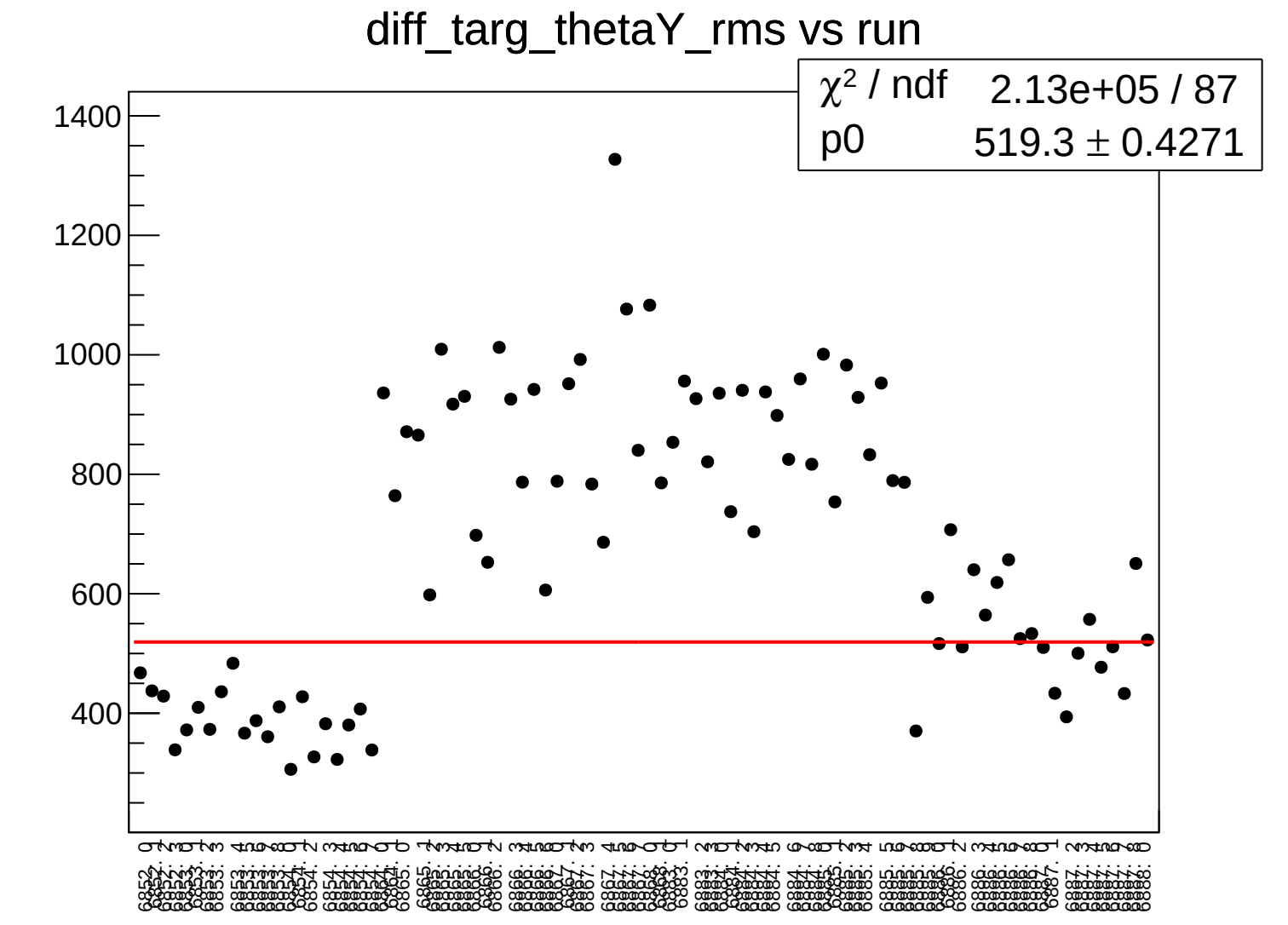

diff_targ_thetaX_mean vs run
χ² / ndf 68.47 / 87
p0 0.3946 ± 0.2233
pull
Entries 88
Mean 39.62
Std Dev 0

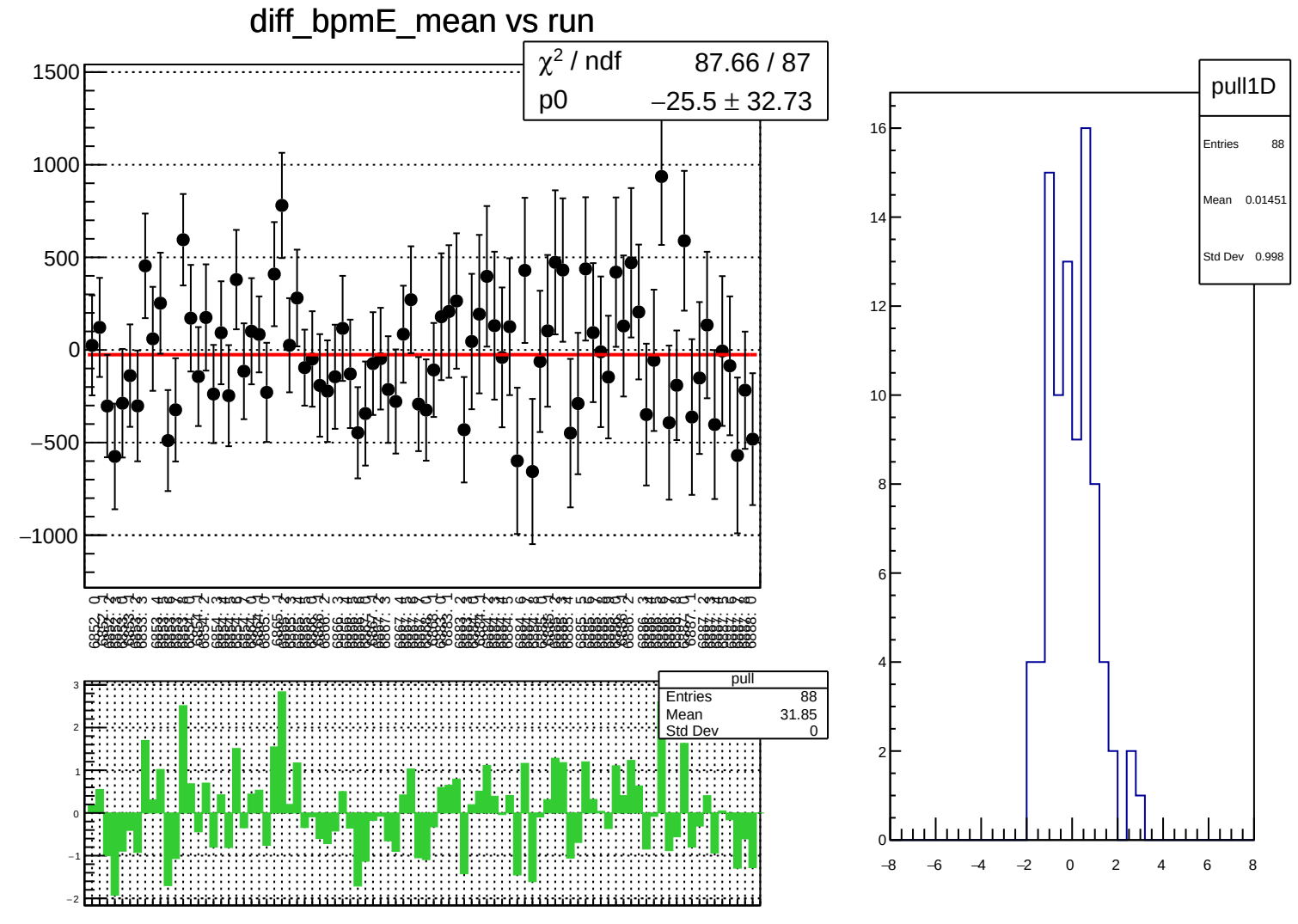

pull1D
Entries 88
Mean −0.02163
Std Dev 0.8818

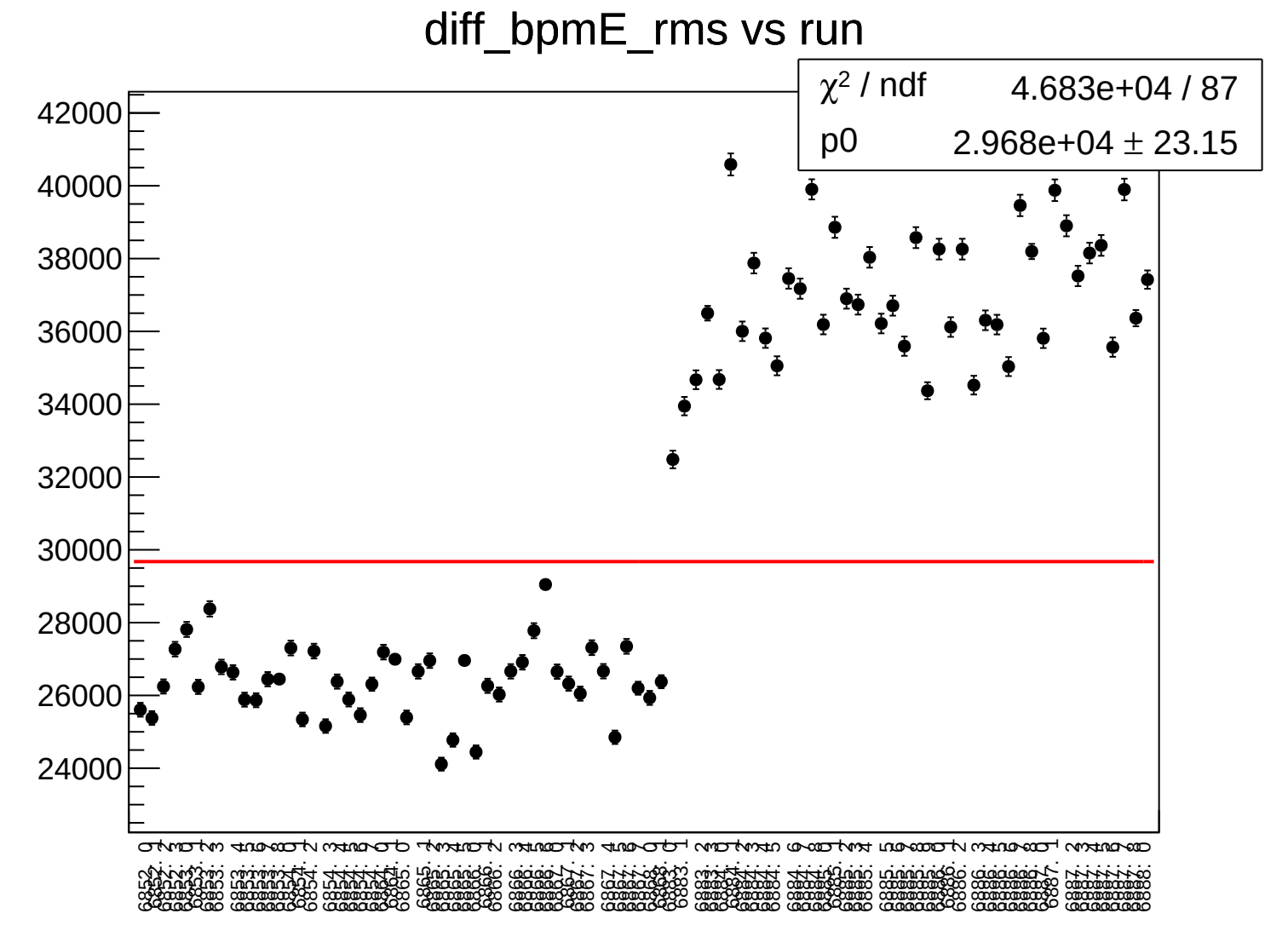

diff_targ_thetaX_rms vs run
χ² / ndf 1.266e+04 / 87
p0 204.5 ± 0.1579
320
300
280
260
240
220
200
180

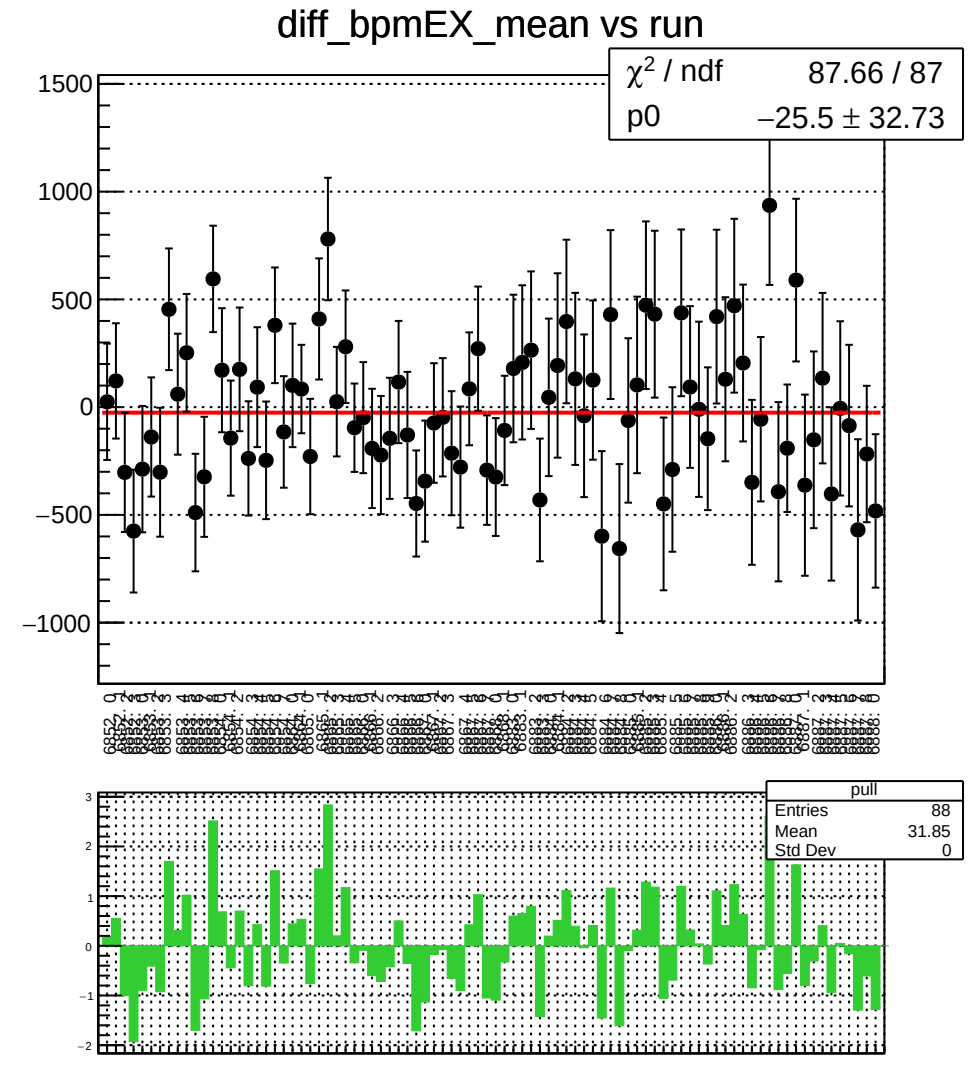

diff_targ_thetaY_mean vs run
χ² / ndf 73.99 / 87
p0 −0.6845 ± 0.6041
pull
Entries 88
Mean −184
Std Dev 0

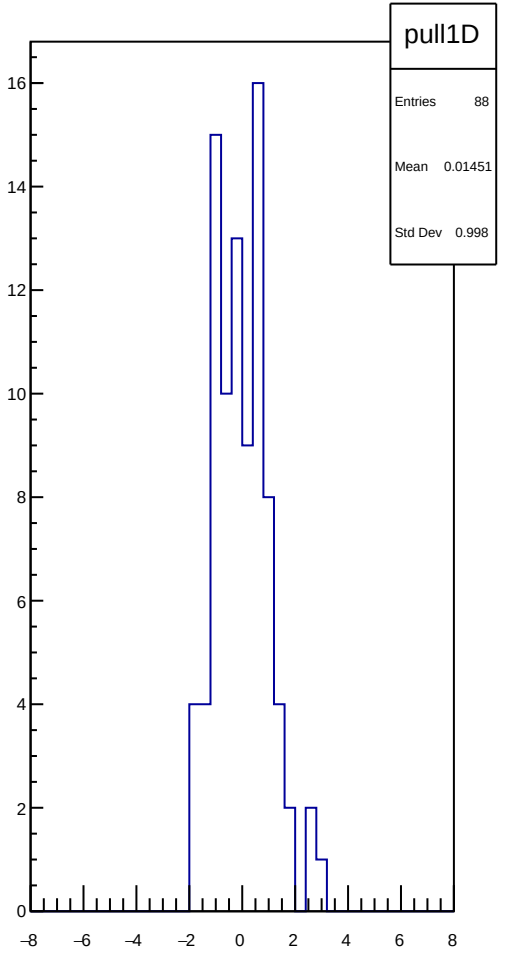

pull1D
Entries 88
Mean −0.008789
Std Dev 0.9169

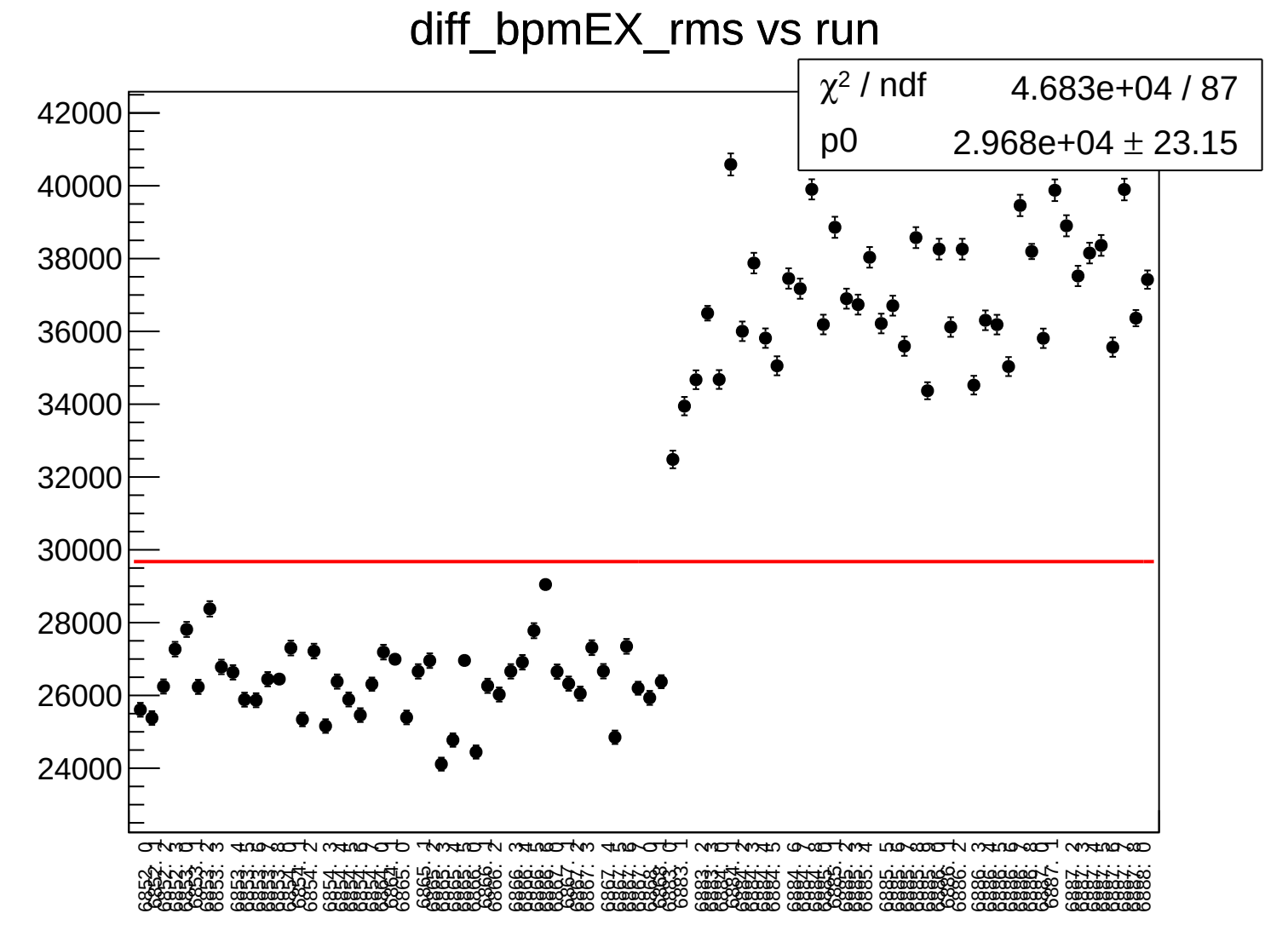

diff_targ_thetaY_rms vs run
χ² / ndf 2.13e+05 / 87
p0 519.3 ± 0.4271
1400
1200
1000
800
600
400

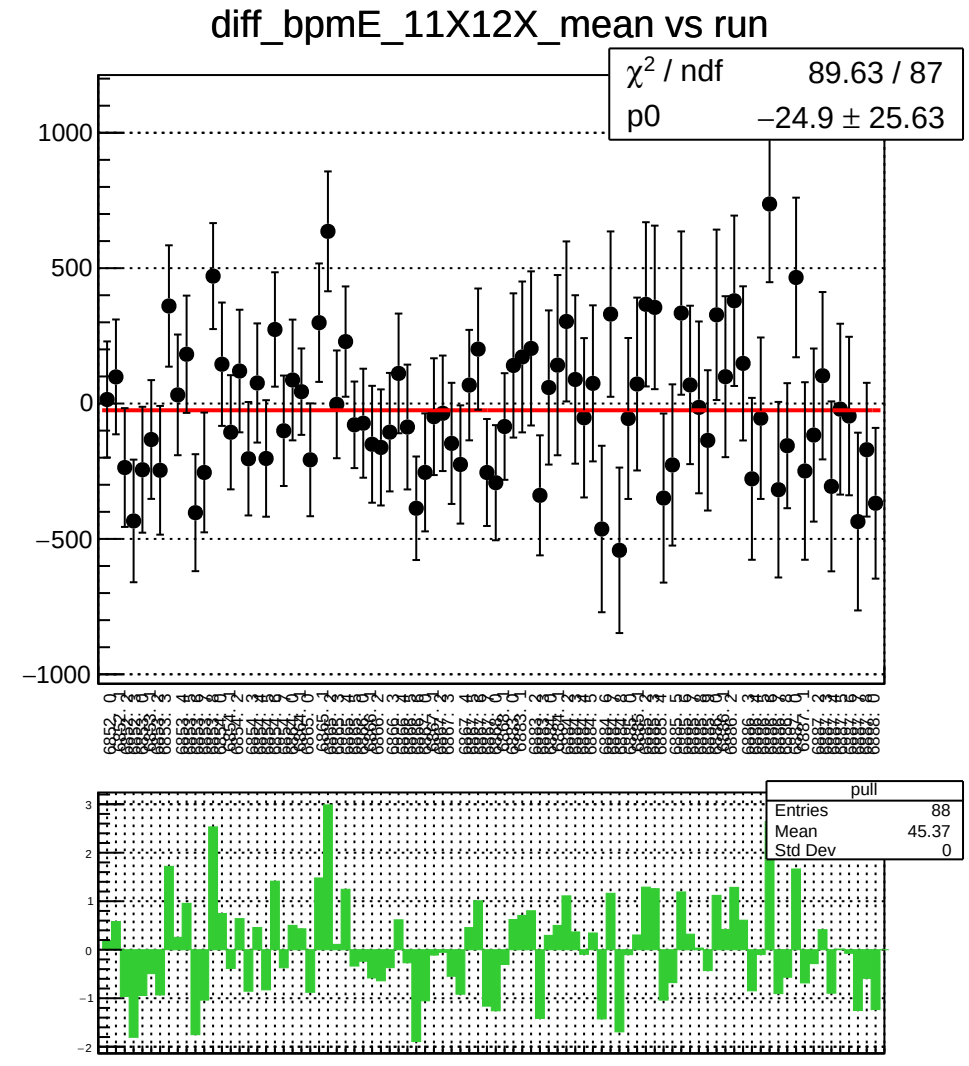

diff_bpmE_mean vs run
χ^2 / ndf 87.66 / 87
p0 −25.5 ± 32.73
1500
1000
500
0
−500
−1000
pull
Entries 88
Mean 31.85
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.01451
Std Dev 0.998
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

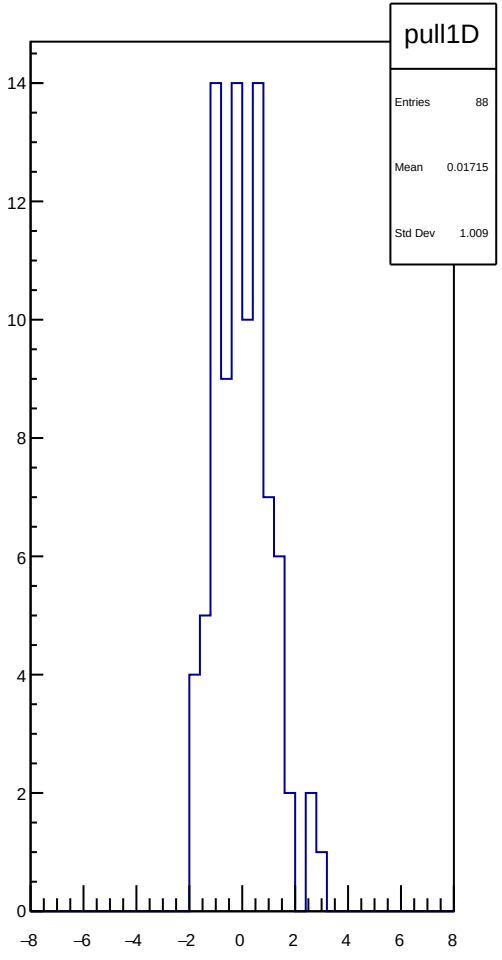

diff_bpmE_rms vs run
χ^2 / ndf 4.683e+04 / 87
p0 2.968e+04 ± 23.15
42000
40000
38000
36000
34000
32000
30000
28000
26000
24000


diff_bpmEX_mean vs run
χ² / ndf 87.66 / 87
p0 −25.5 ± 32.73
1500
1000
500
0
−500
−1000
pull
Entries 88
Mean 31.85
Std Dev 0
3
2
1
0
−1
−2

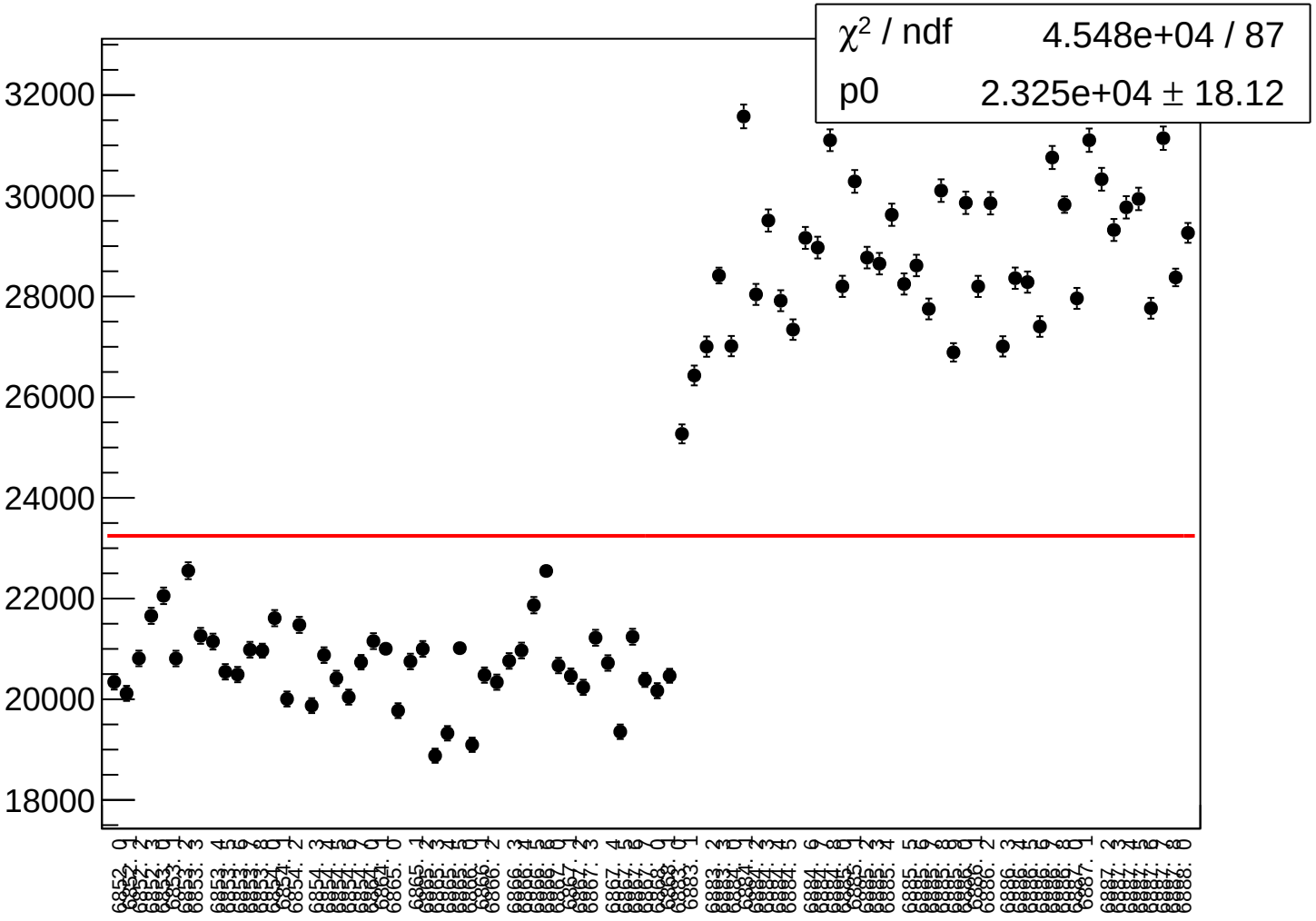

pull1D
Entries 88
Mean 0.01451
Std Dev 0.998
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

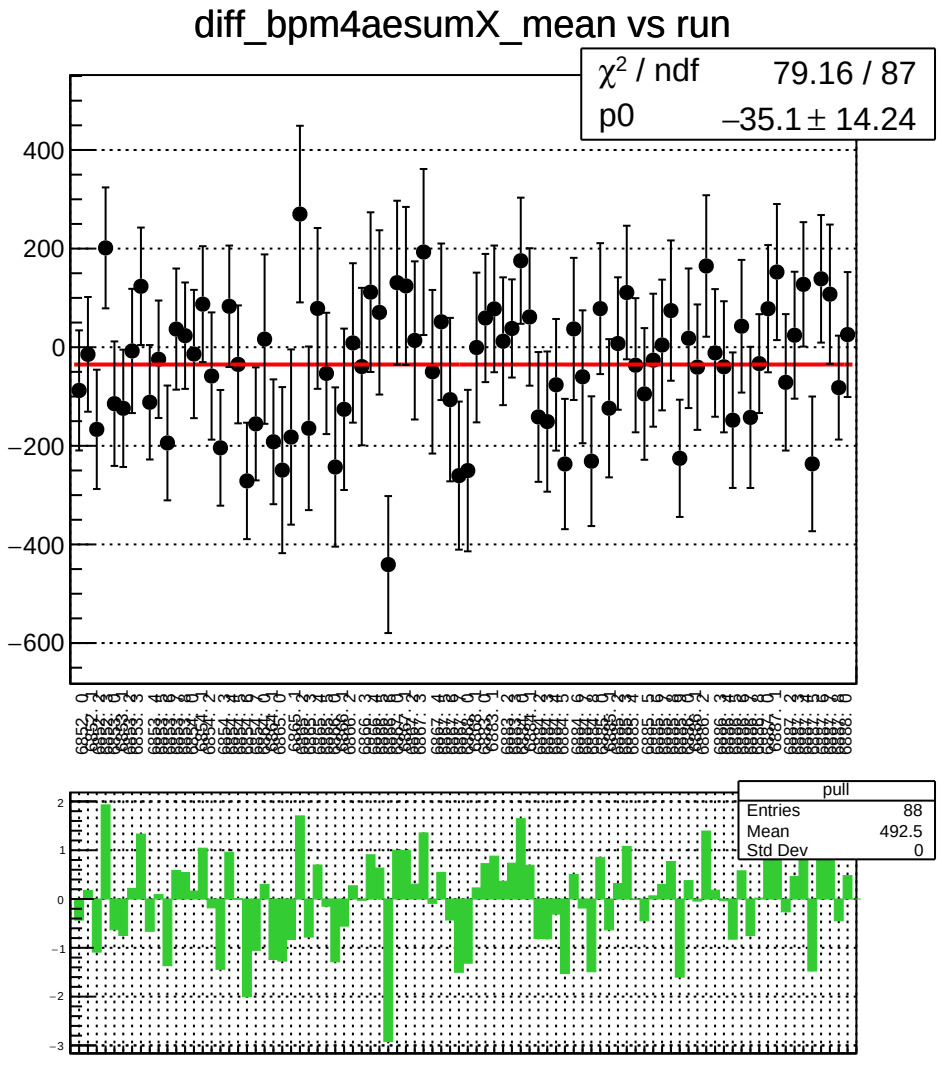

diff_bpmEX_rms vs run
χ² / ndf 4.683e+04 / 87
p0 2.968e+04 ± 23.15
42000
40000
38000
36000
34000
32000
30000
28000
26000
24000

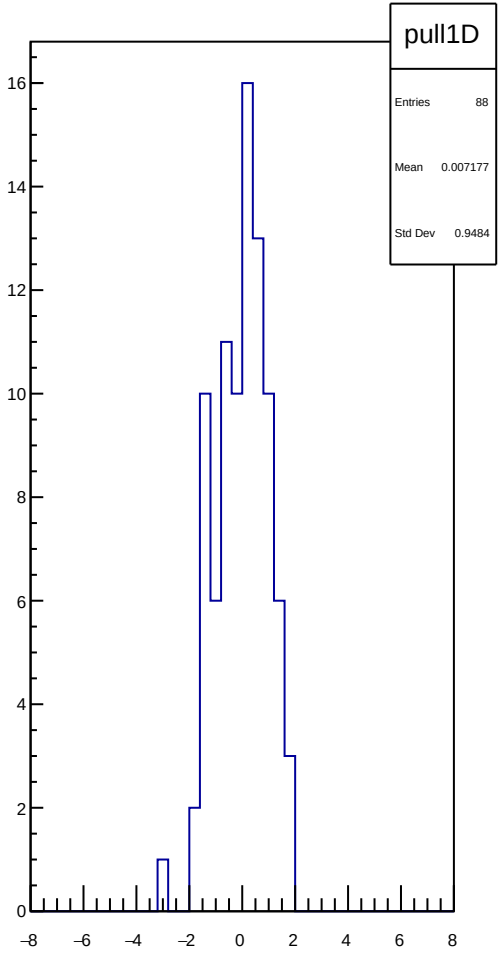

diff_bpmE_11X12X_mean vs run
χ² / ndf 89.63 / 87
p0 −24.9 ± 25.63
1000
500
0
−500
−1000
pull
Entries 88
Mean 45.37
Std Dev 0
3
2
1
0
−1
−2

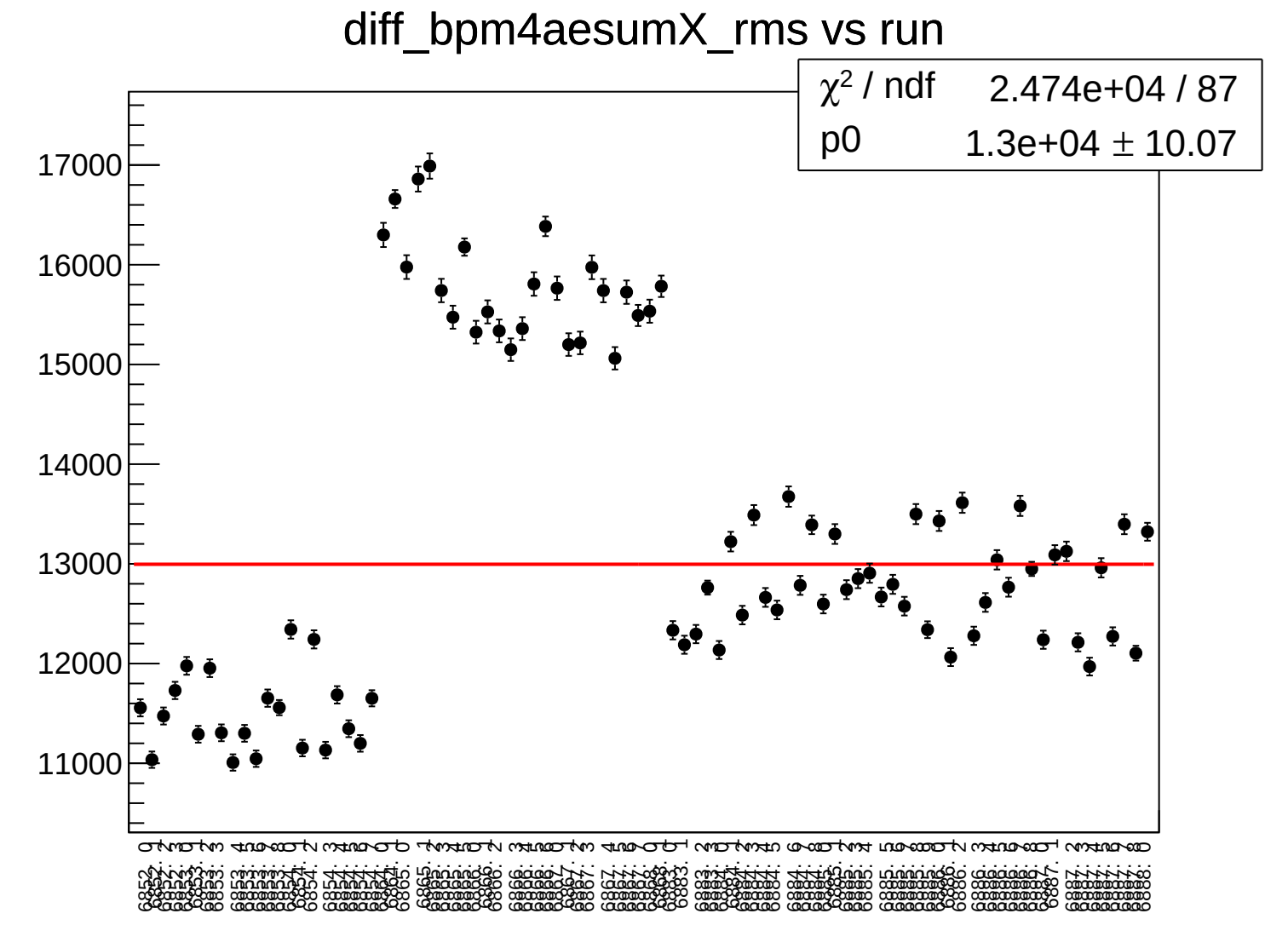

pull1D
Entries 88
Mean 0.01715
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

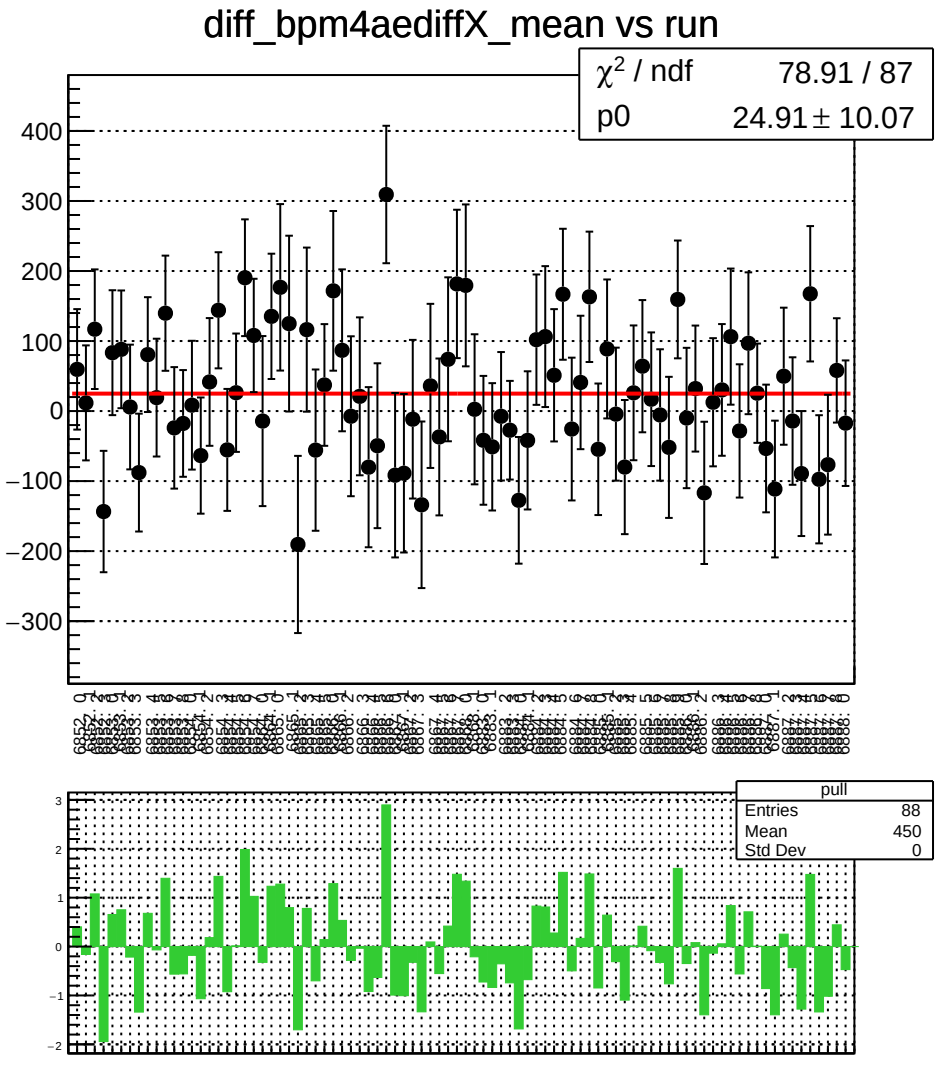
diff_bpmE_11X12X_rms vs run

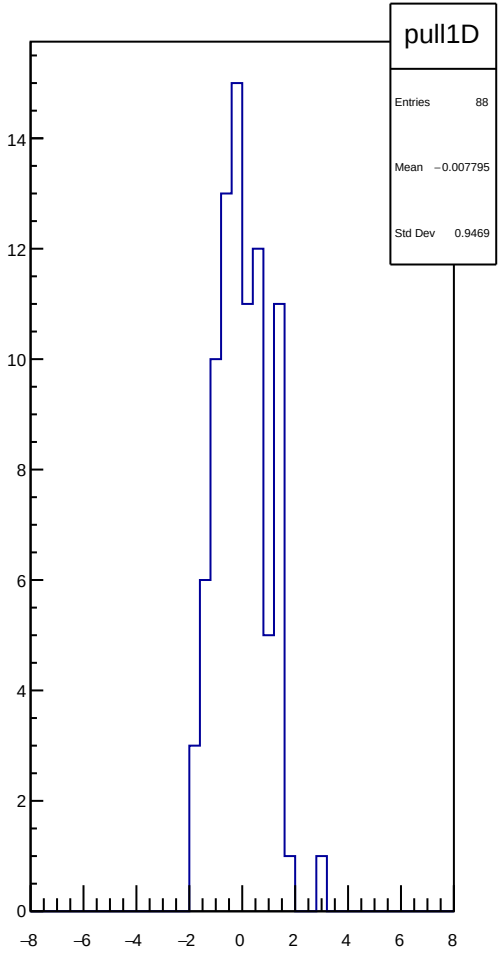


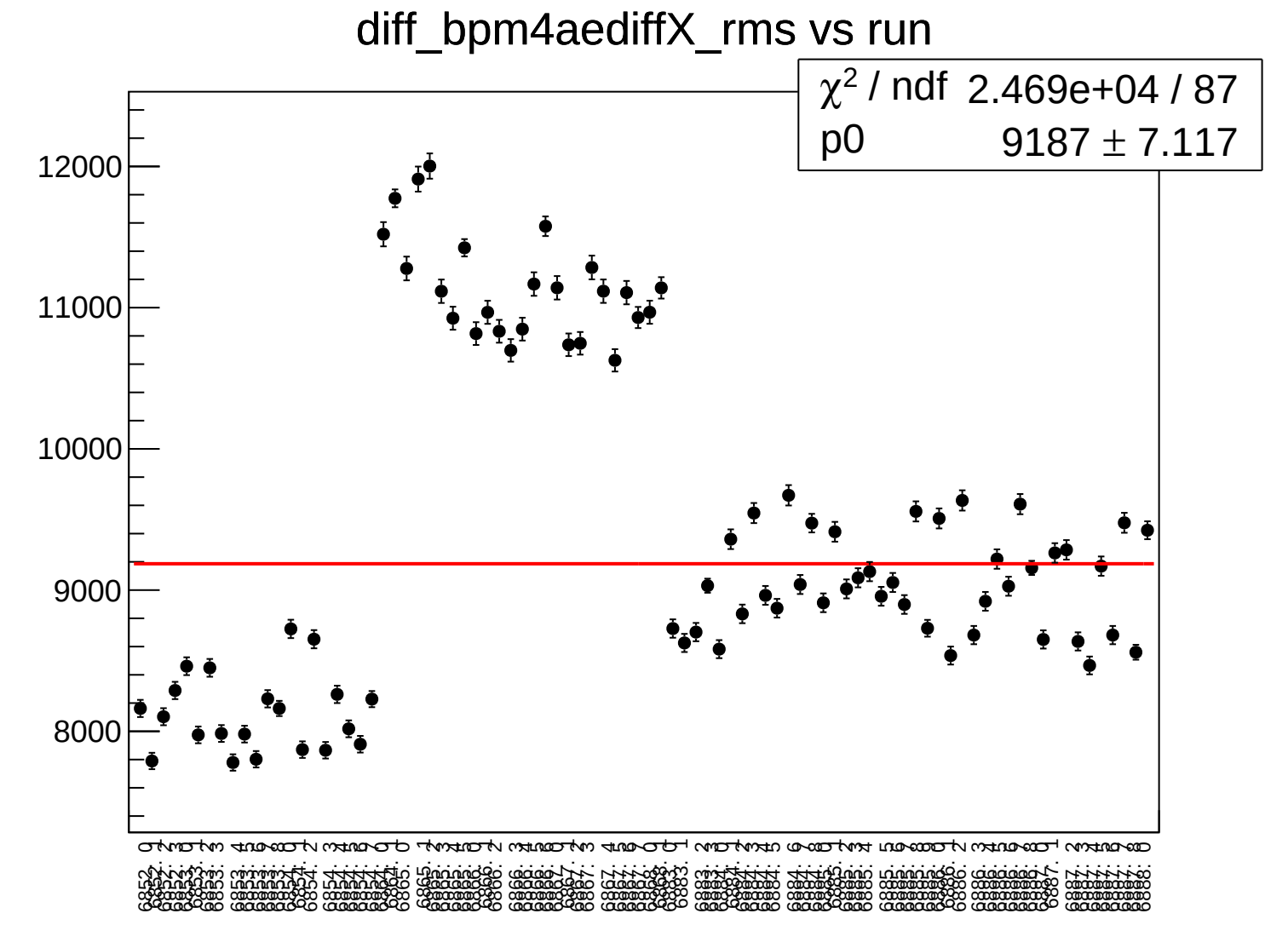

diff_bpm4aesumX_mean vs run
χ² / ndf 79.16 / 87
p0 −35.1 ± 14.24
400
200
0
−200
−400
−600
pull
Entries 88
Mean 492.5
Std Dev 0
2
1
0
−1
−2
−3

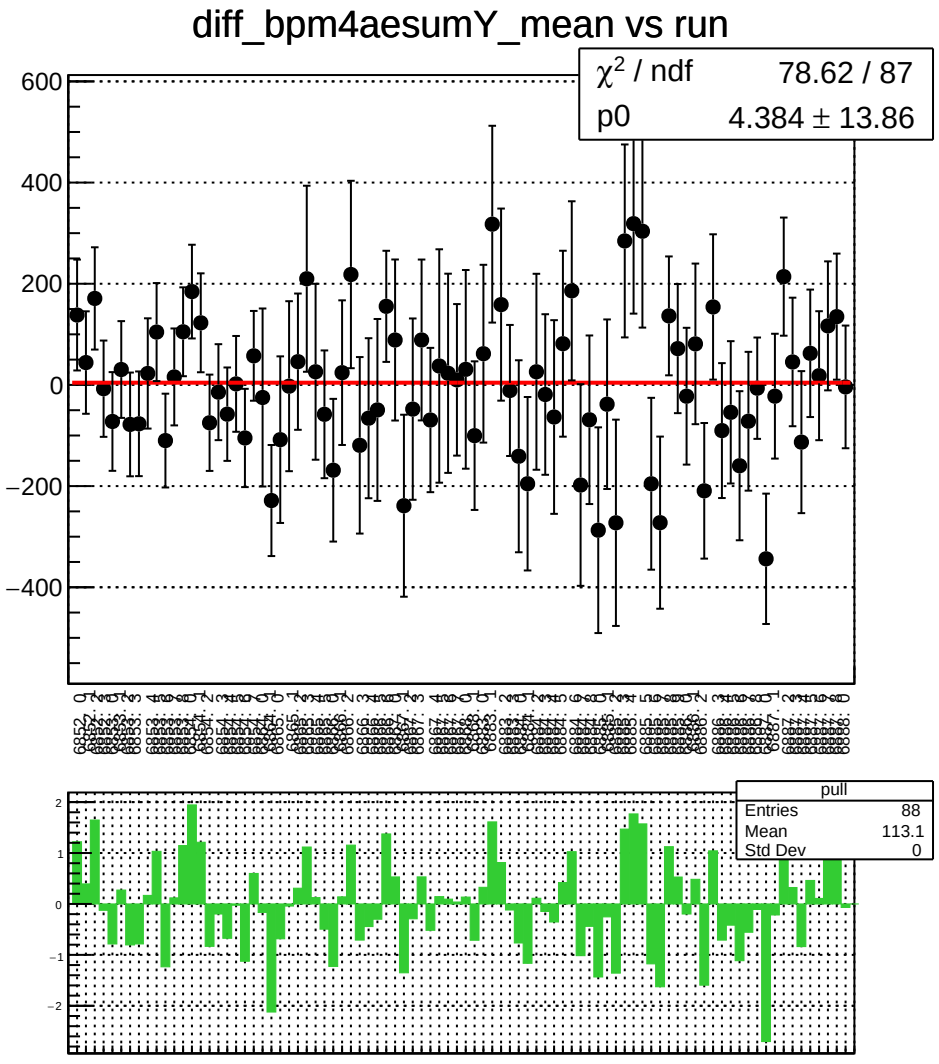

pull1D
Entries 88
Mean 0.007177
Std Dev 0.9484
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

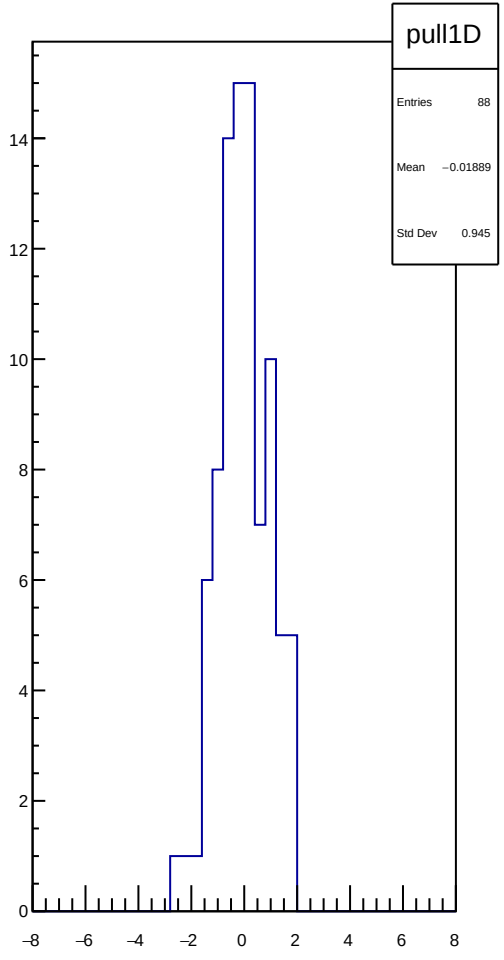

diff_bpm4aesumX_rms vs run
χ² / ndf 2.474e+04 / 87
p0 1.3e+04 ± 10.07
17000
16000
15000
14000
13000
12000
11000

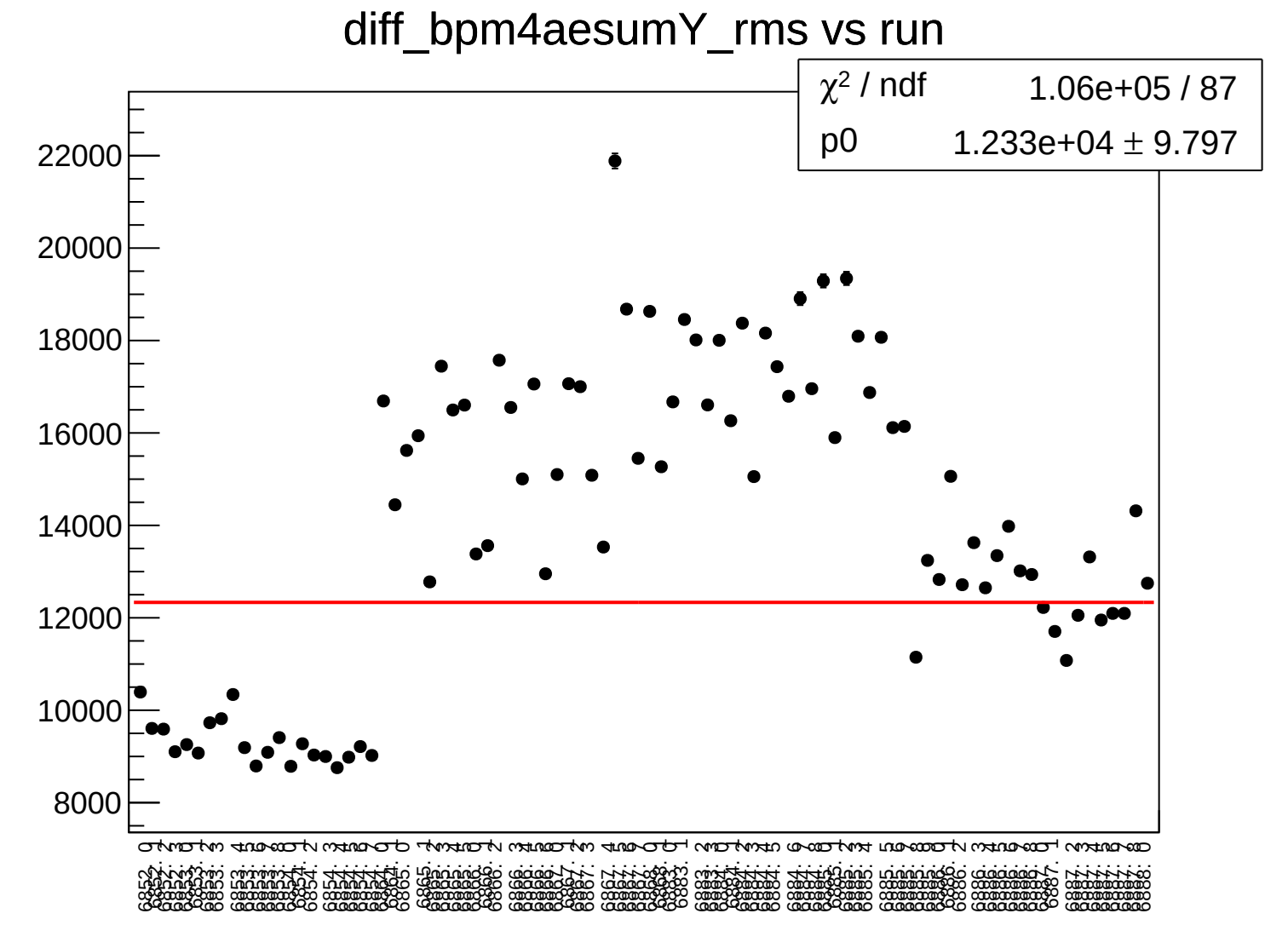

diff_bpm4aediffX_mean vs run
χ^2 / ndf 78.91 / 87
p0 24.91 ± 10.07
pull
Entries 88
Mean 450
Std Dev 0

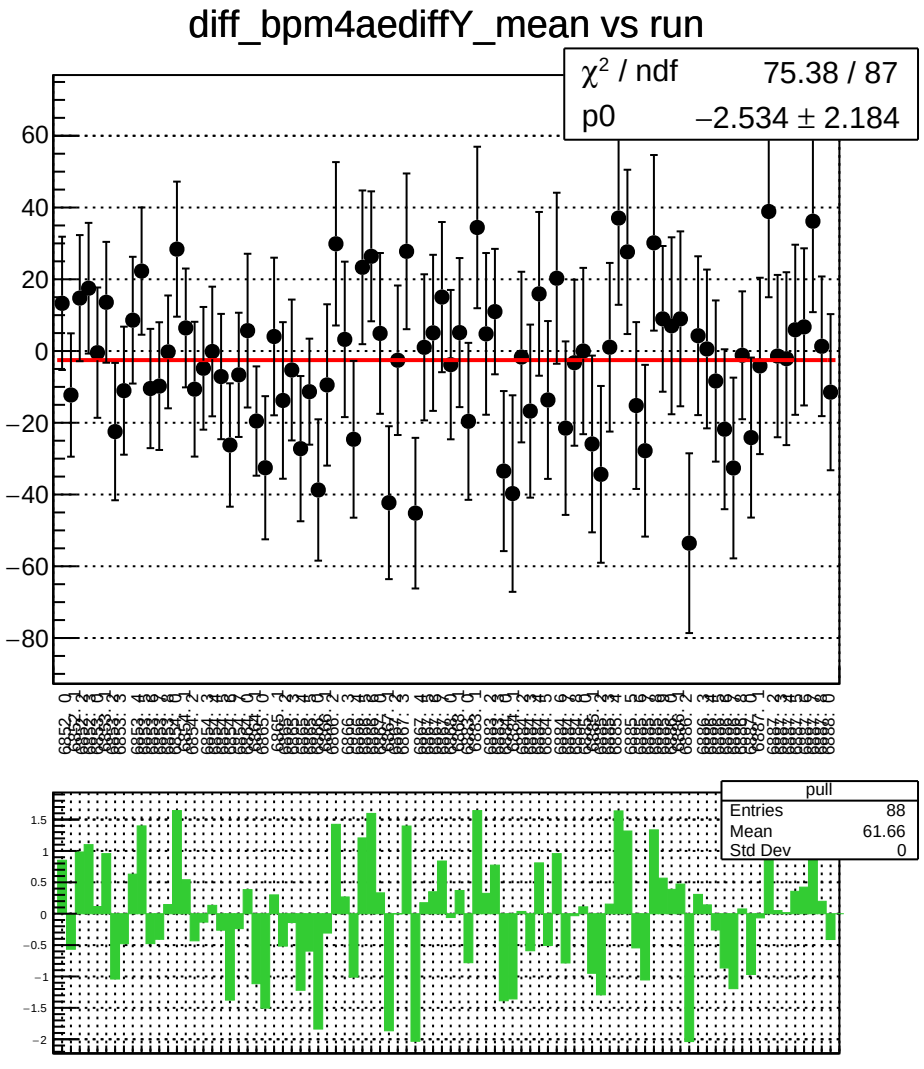

pull1D
Entries 88
Mean −0.007795
Std Dev 0.9469

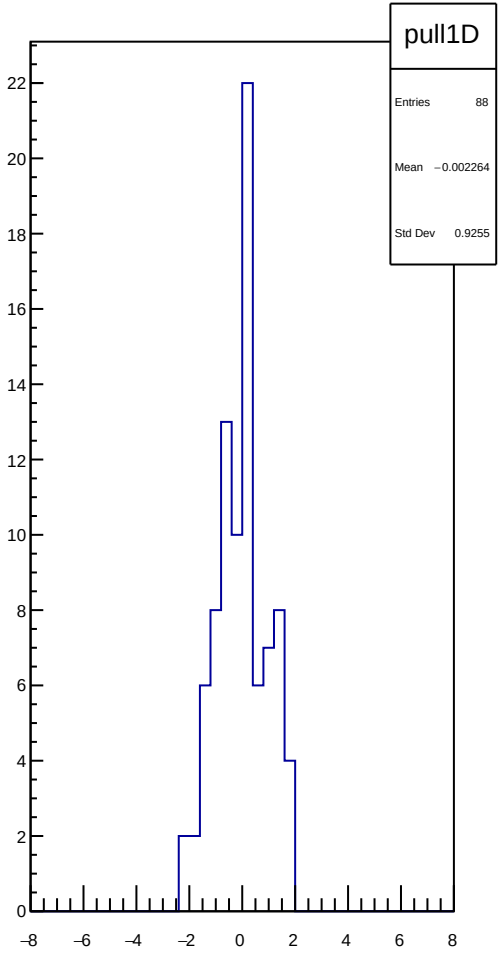

diff_bpm4aediffX_rms vs run
χ² / ndf 2.469e+04 / 87
p0 9187 ± 7.117
12000
11000
10000
9000
8000

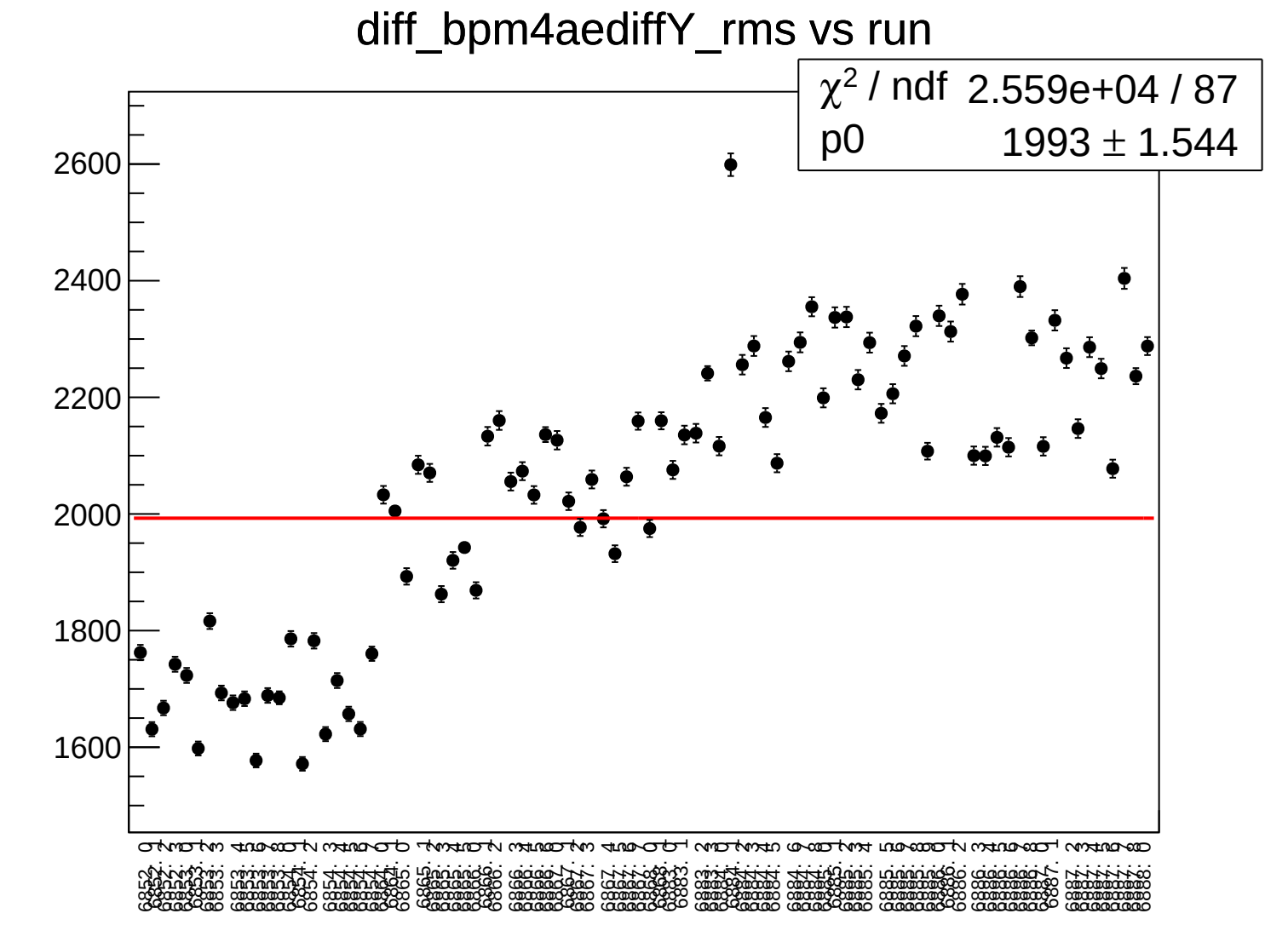

diff_bpm4aesumY_mean vs run
χ² / ndf 78.62 / 87
p0 4.384 ± 13.86
600
400
200
0
−200
−400
pull
Entries 88
Mean 113.1
Std Dev 0
2
1
0
−1
−2

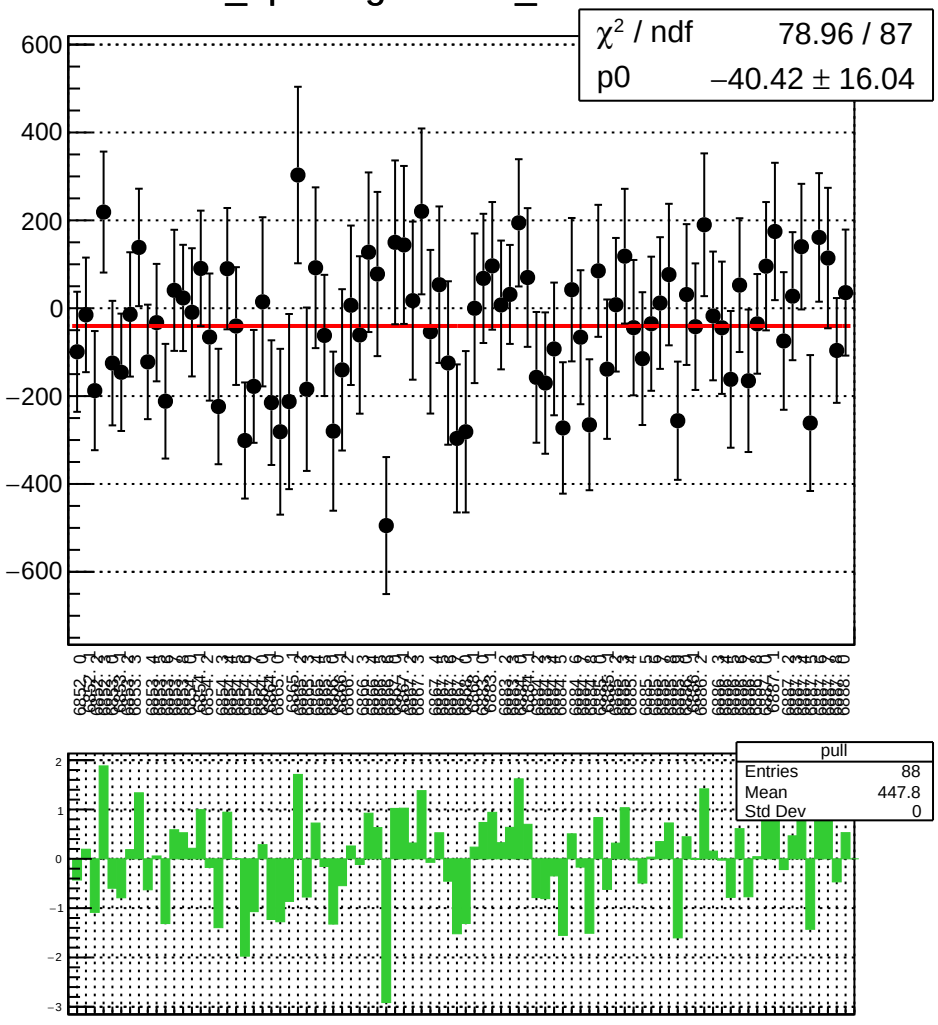

pull1D
Entries 88
Mean −0.01889
Std Dev 0.945
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

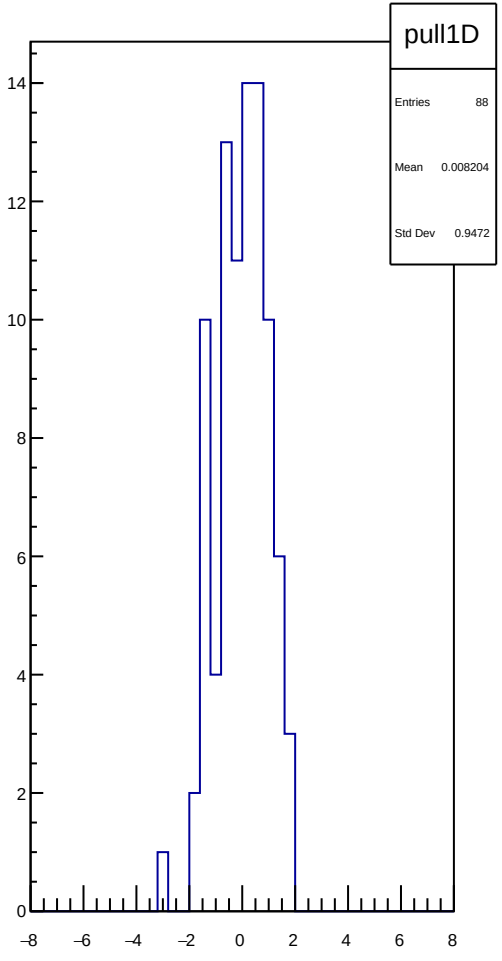

diff_bpm4aesumY_rms vs run
χ² / ndf 1.06e+05 / 87
p0 1.233e+04 ± 9.797
22000
20000
18000
16000
14000
12000
10000
8000

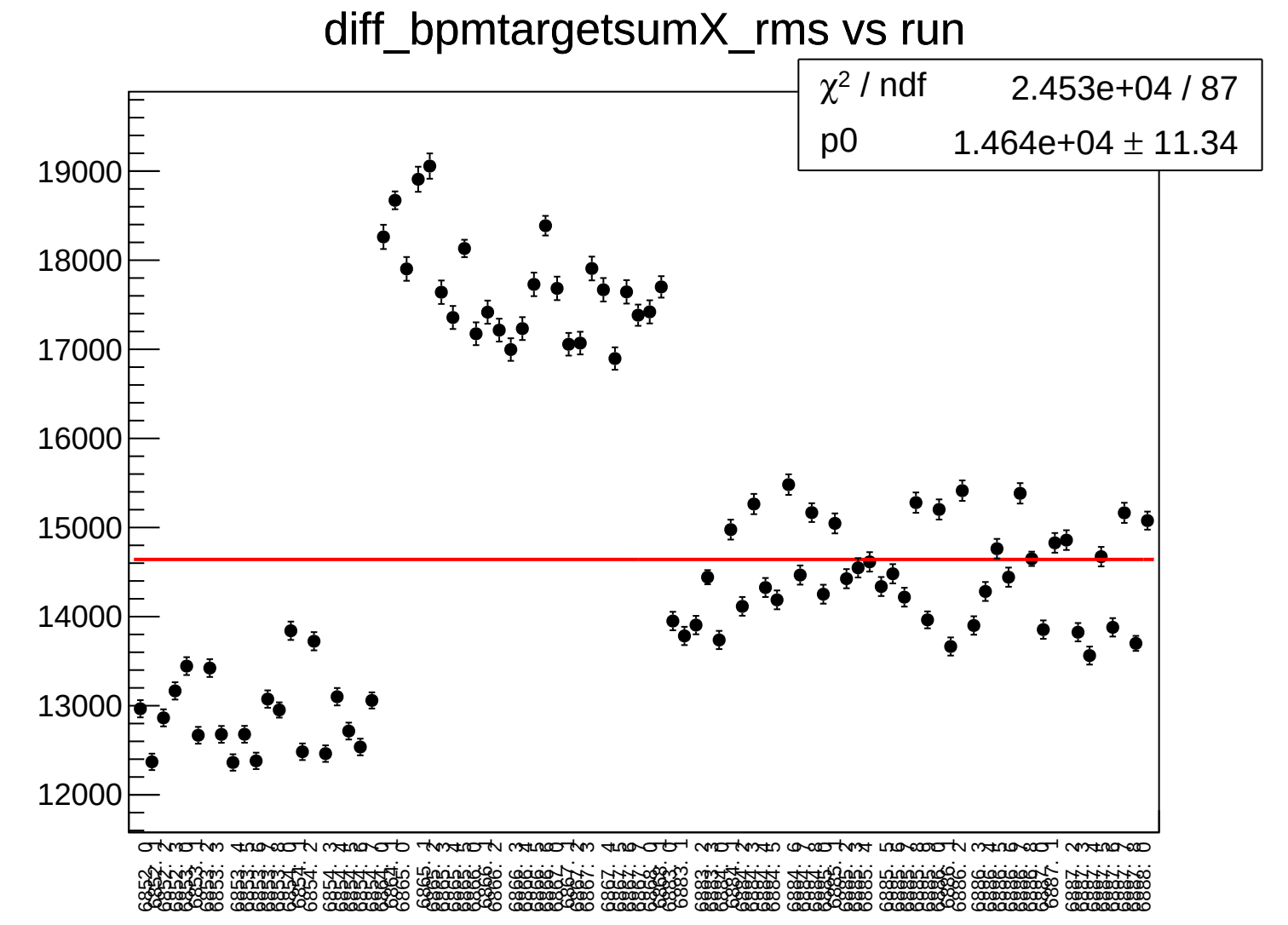

diff_bpm4aediffY_mean vs run
χ² / ndf 75.38 / 87
p0 −2.534 ± 2.184
pull
Entries 88
Mean 61.66
Std Dev 0

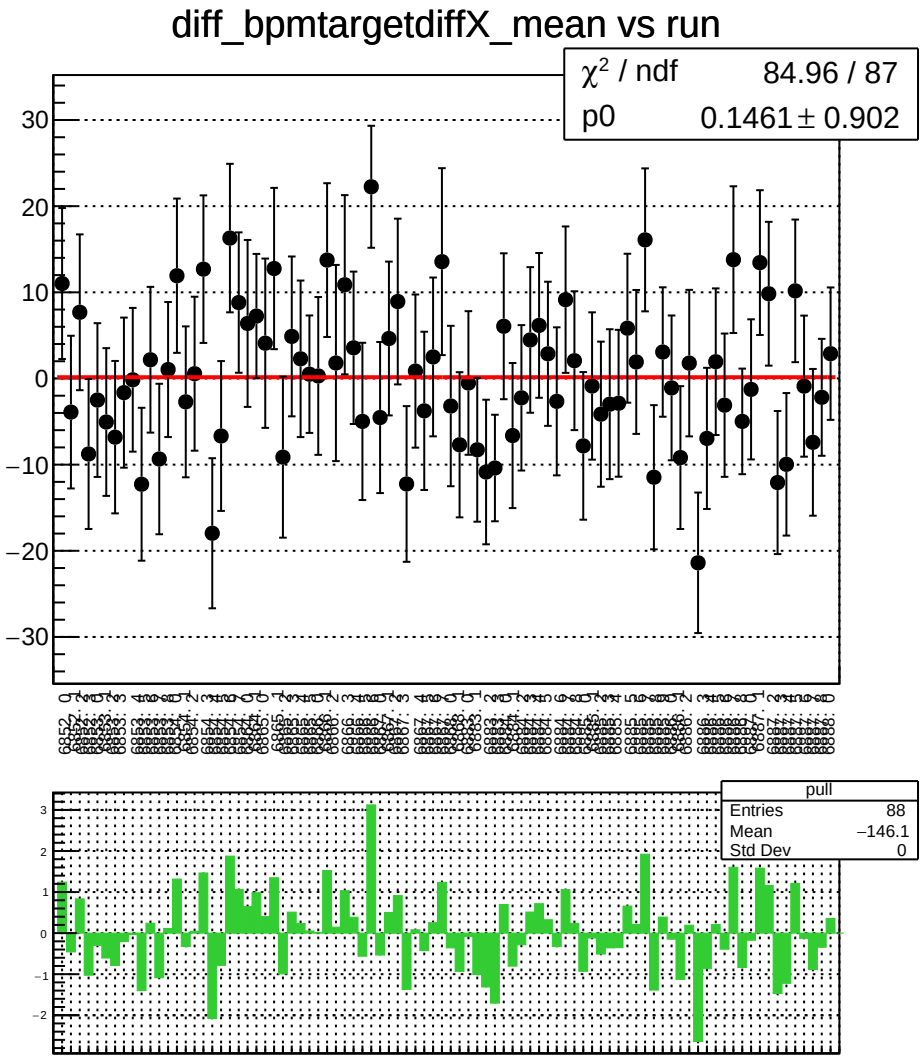

pull1D
Entries 88
Mean −0.002264
Std Dev 0.9255

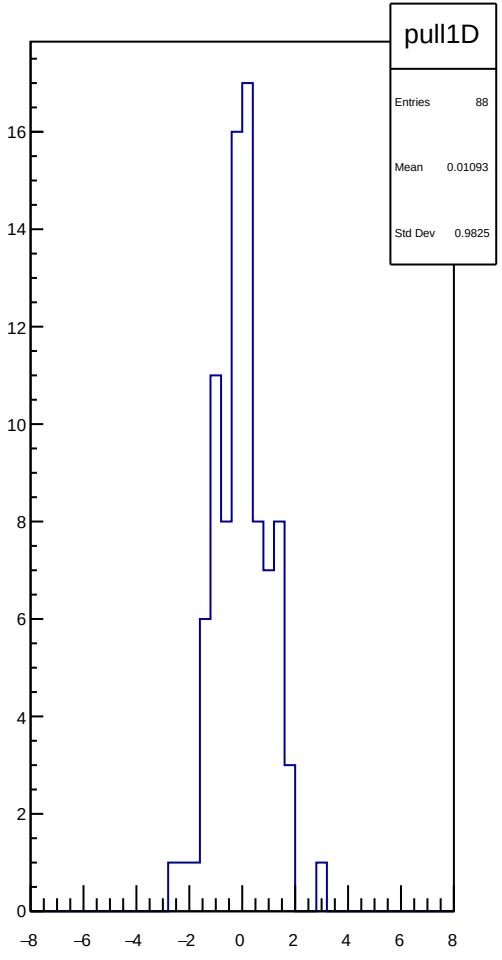

diff_bpm4aediffY_rms vs run
χ² / ndf 2.559e+04 / 87
p0 1993 ± 1.544
2600
2400
2200
2000
1800
1600

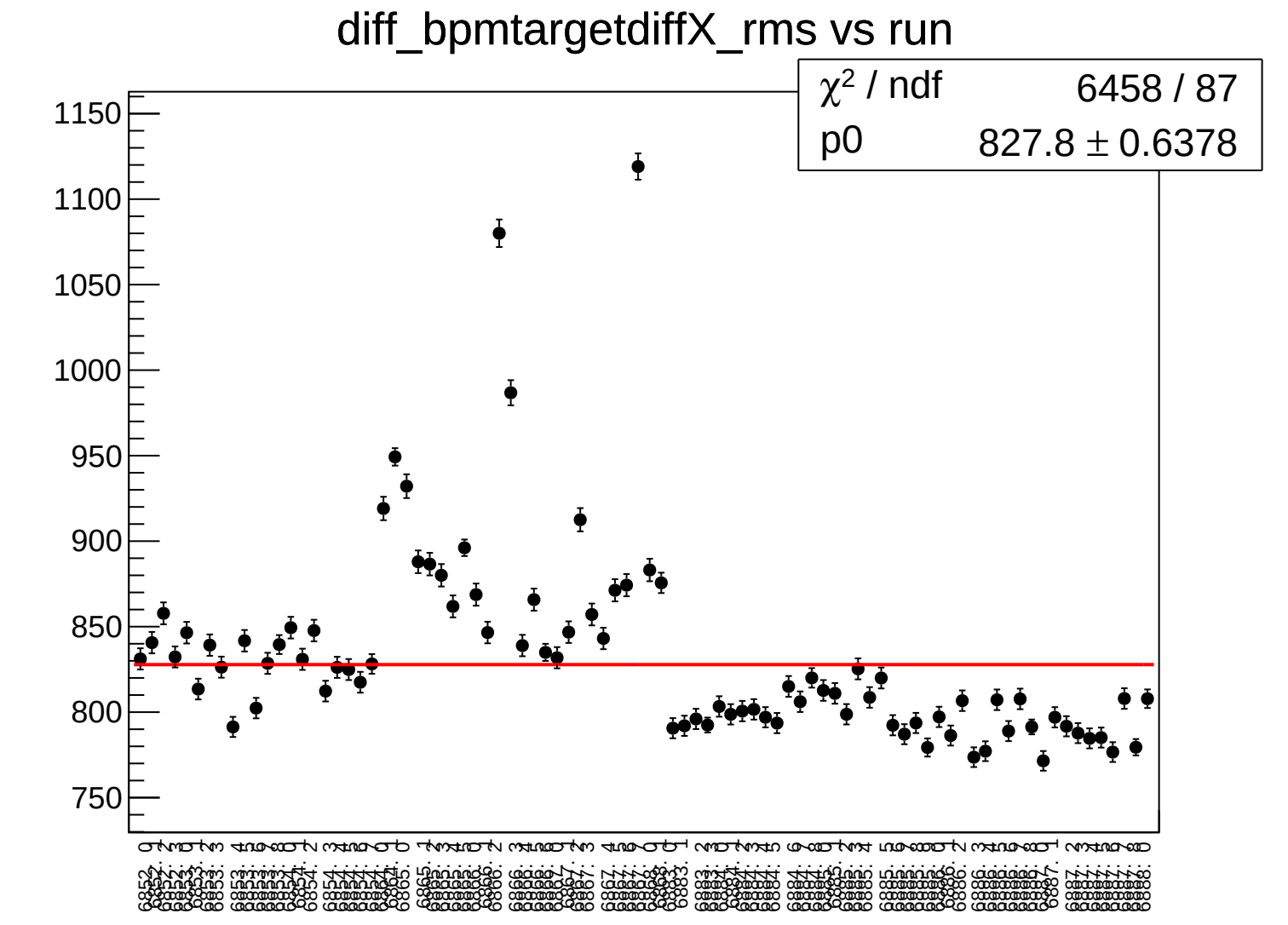

diff_bpmtargetsumX_mean vs run
χ^2 / ndf 78.96 / 87
p0 −40.42 ± 16.04
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean 447.8
Std Dev 0
2
1
0
−1
−2
−3

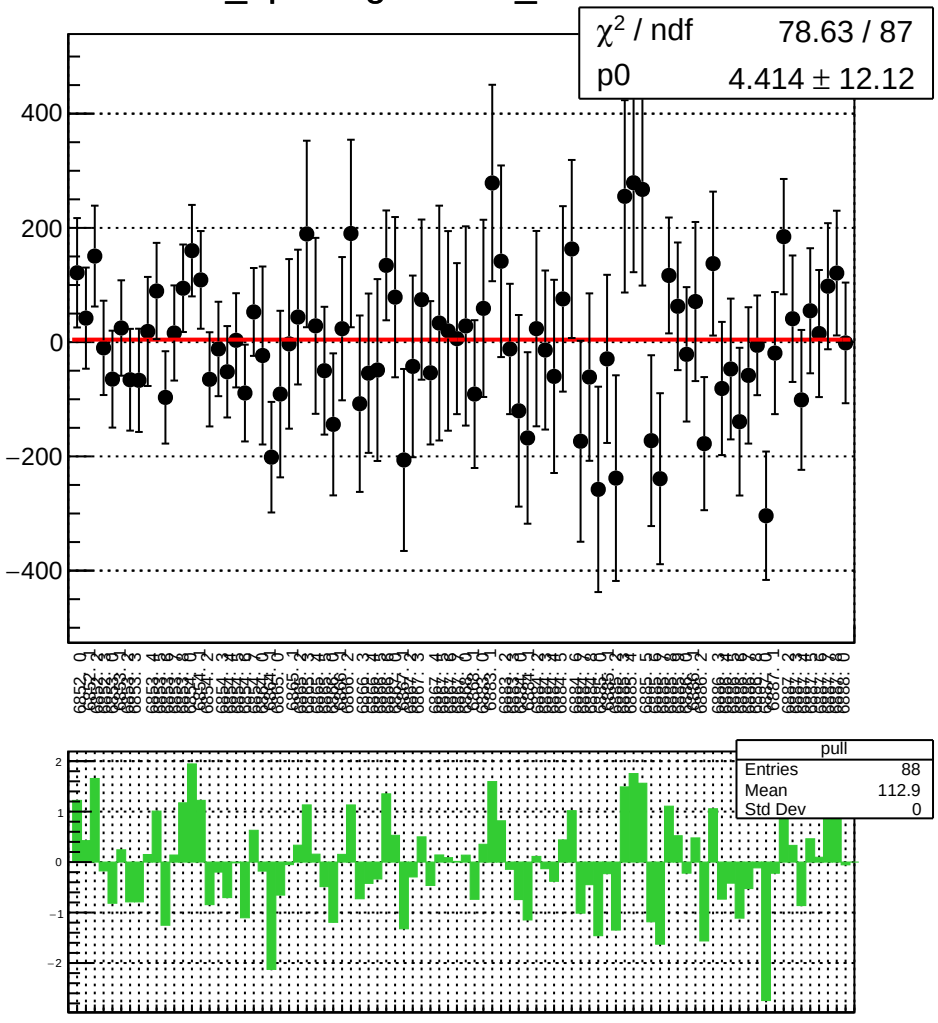

pull1D
Entries 88
Mean 0.008204
Std Dev 0.9472
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

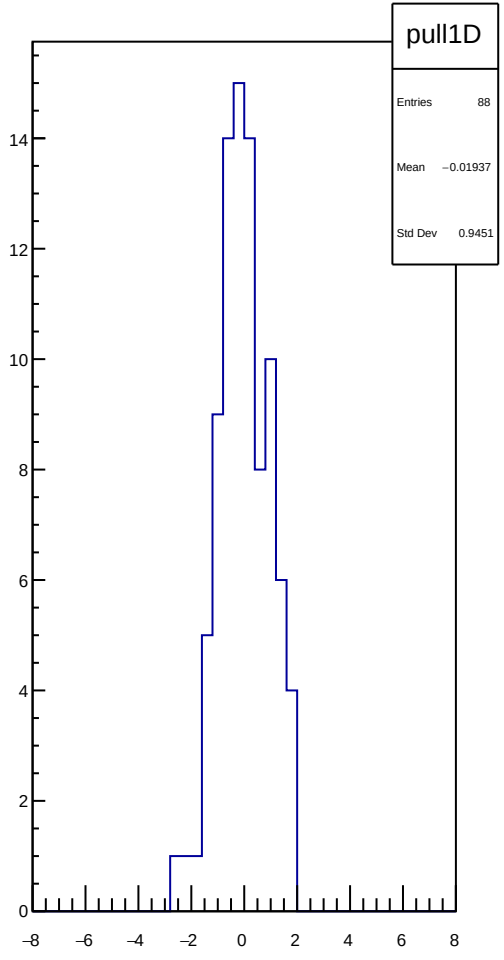

diff_bpmtargetsumX_rms vs run
χ² / ndf 2.453e+04 / 87
p0 1.464e+04 ± 11.34
19000
18000
17000
16000
15000
14000
13000
12000

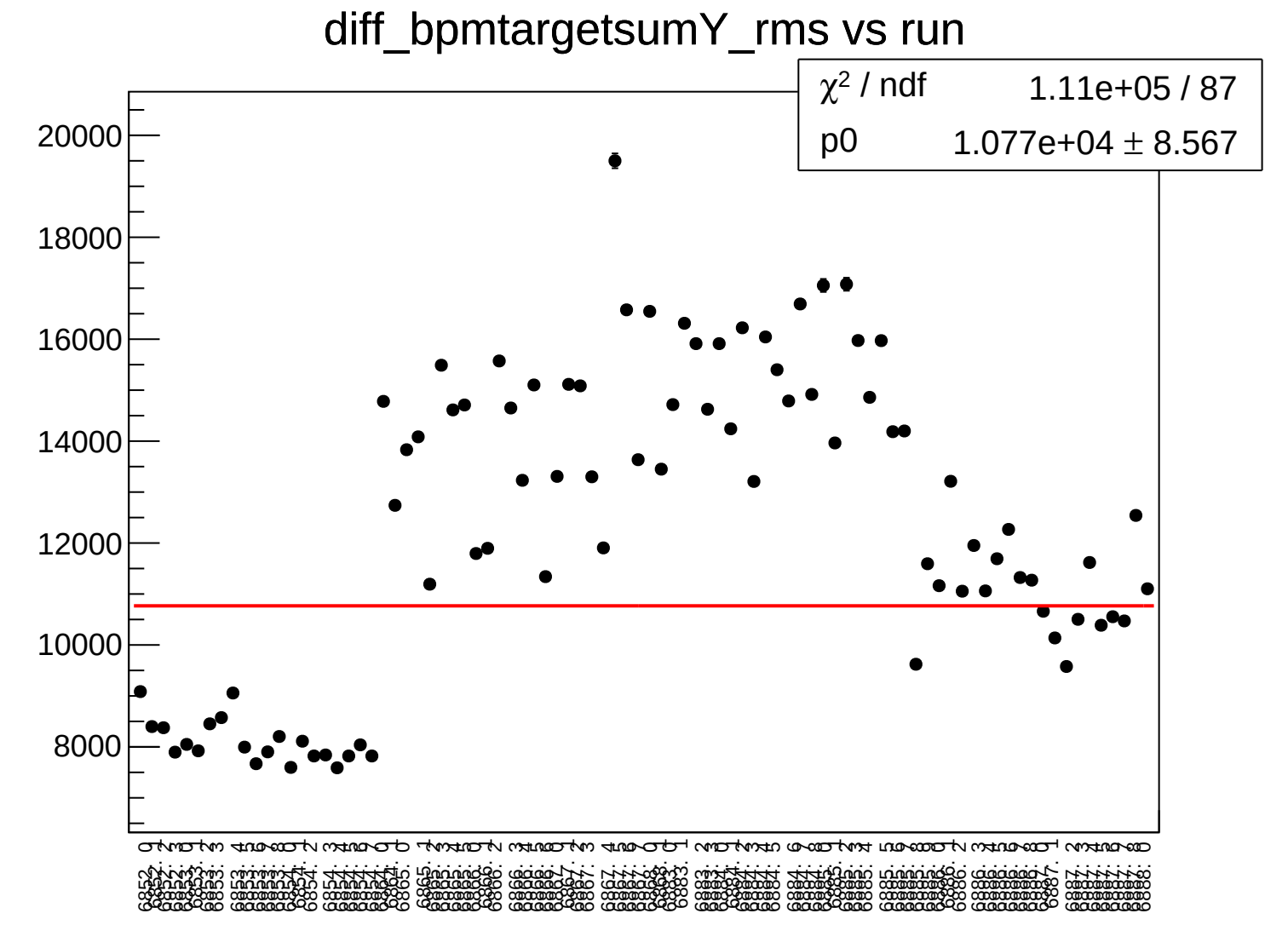

diff_bpmtargetdiffX_mean vs run
χ² / ndf 84.96 / 87
p0 0.1461 ± 0.902
pull
Entries 88
Mean −146.1
Std Dev 0

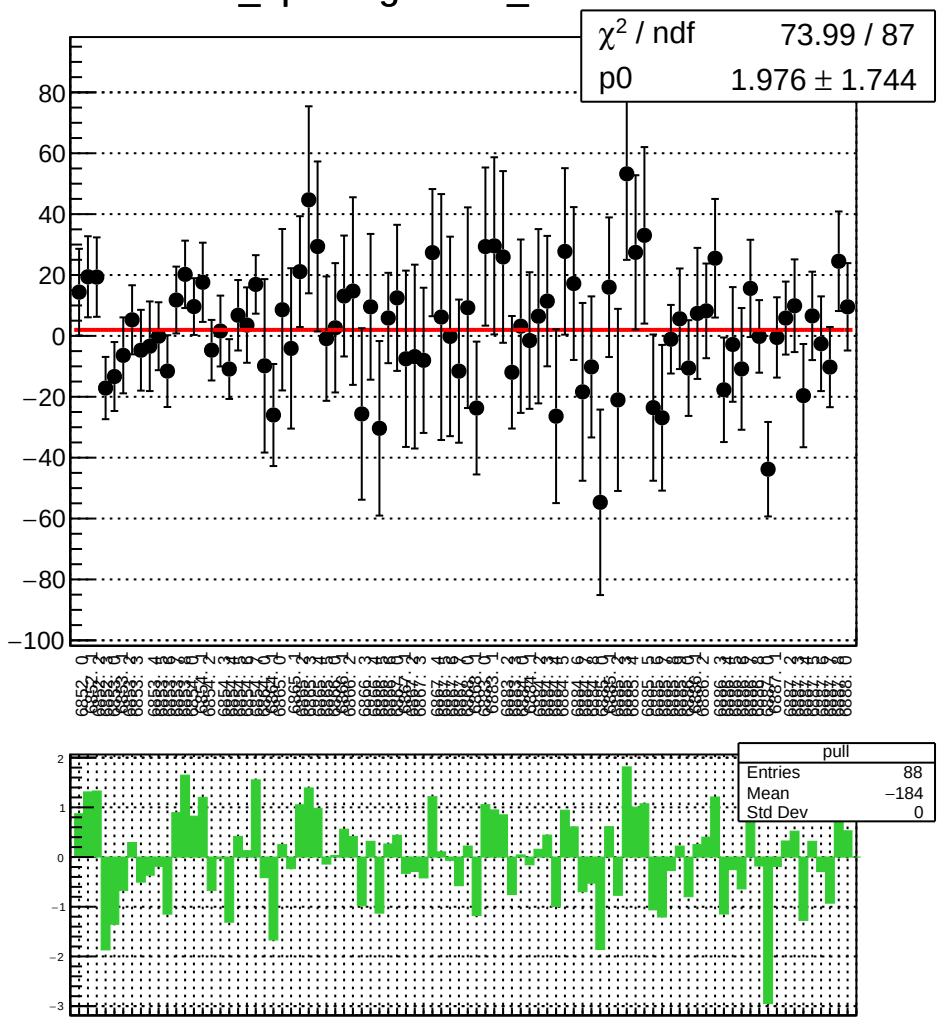

pull1D
Entries 88
Mean 0.01093
Std Dev 0.9825

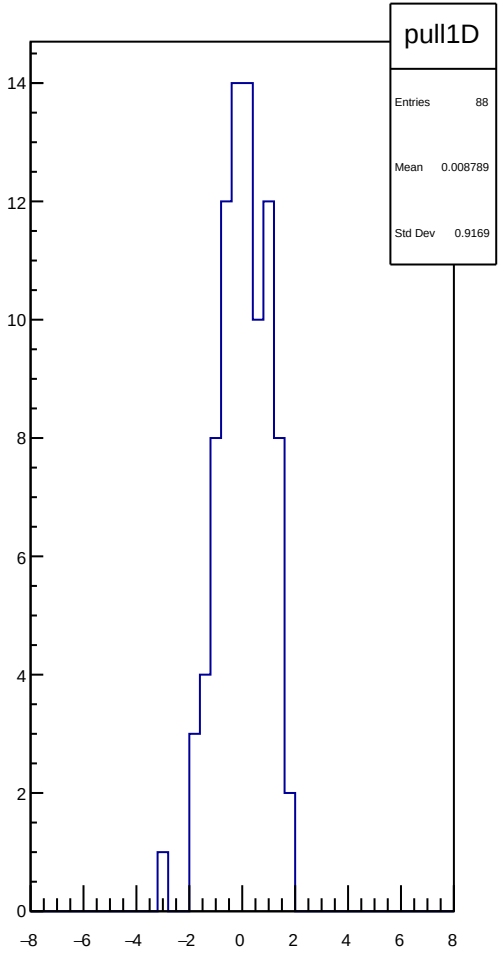

diff_bpmtargetdiffX_rms vs run
χ² / ndf 6458 / 87
p0 827.8 ± 0.6378
1150
1100
1050
1000
950
900
850
800
750

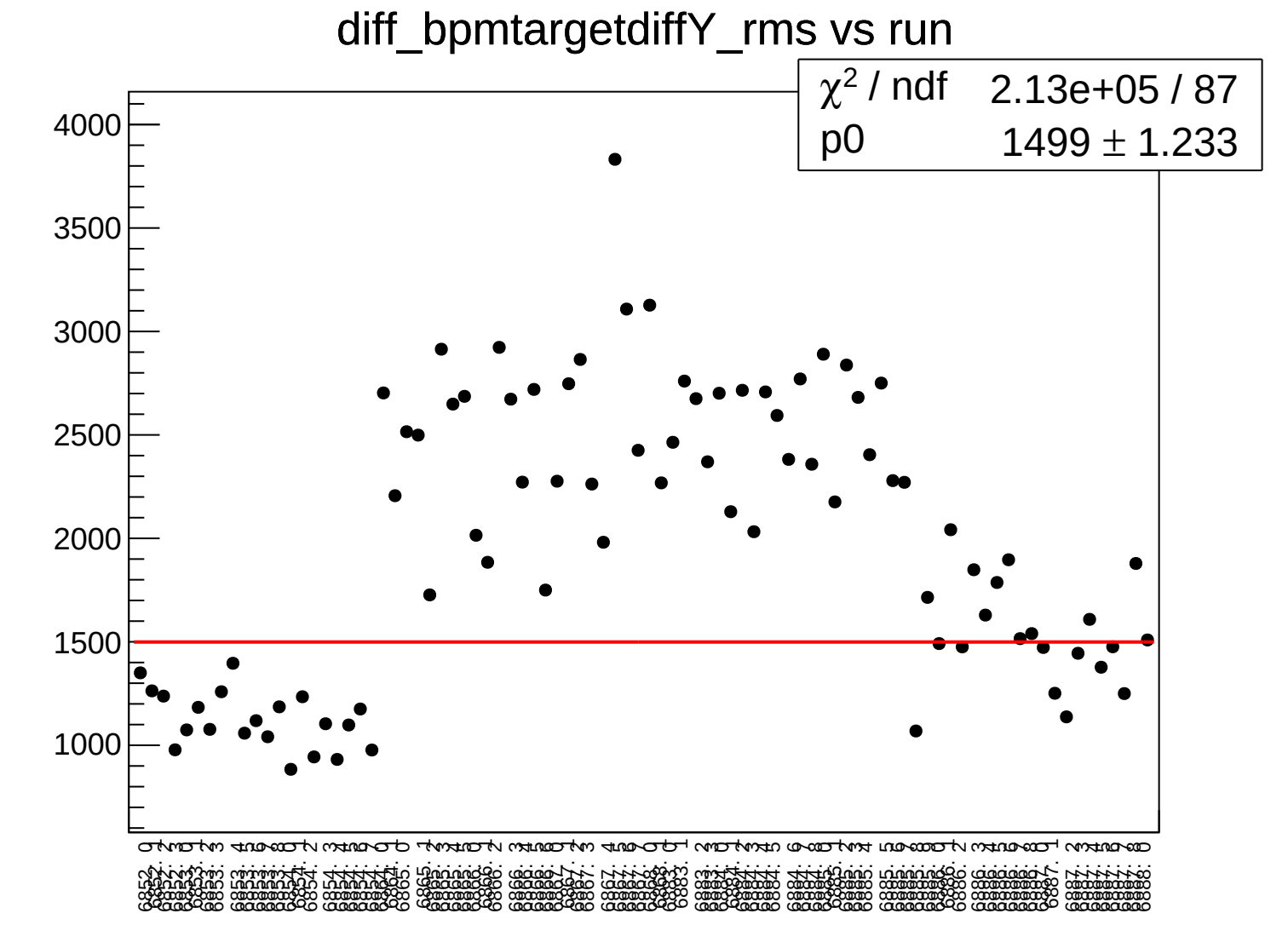

diff_bpmtargetsumY_mean vs run
χ² / ndf 78.63 / 87
p0 4.414 ± 12.12
400
200
0
−200
−400
pull
Entries 88
Mean 112.9
Std Dev 0
2
1
0
−1
−2

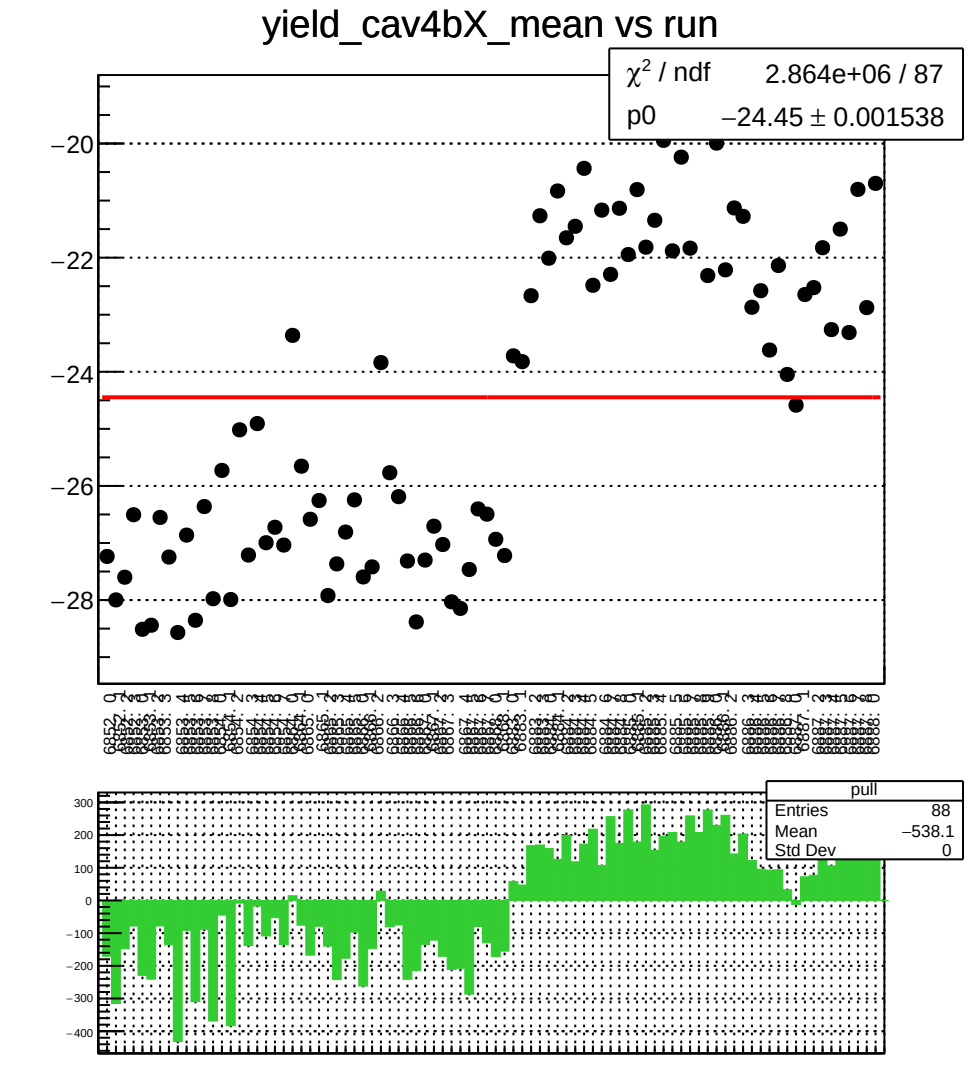

pull1D
Entries 88
Mean −0.01937
Std Dev 0.9451
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

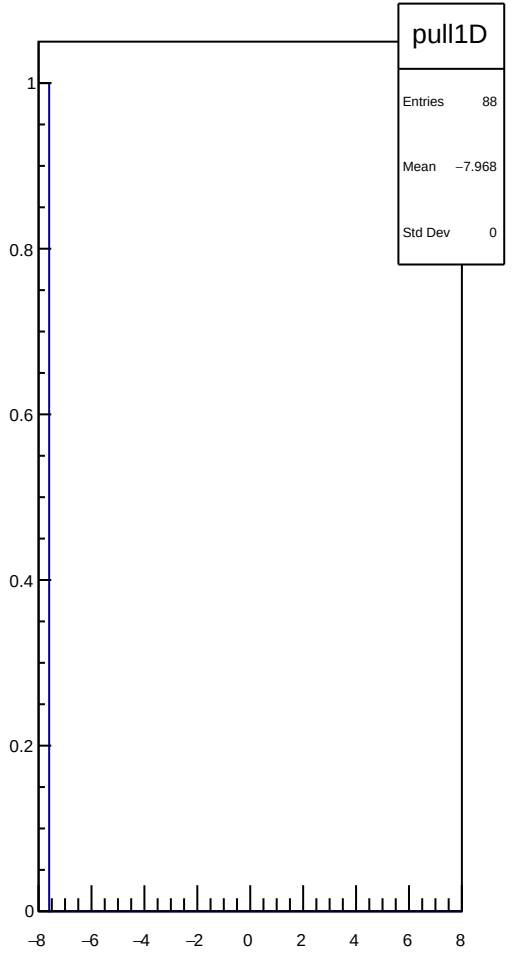

diff_bpmtargetsumY_rms vs run
χ² / ndf 1.11e+05 / 87
p0 1.077e+04 ± 8.567
20000
18000
16000
14000
12000
10000
8000

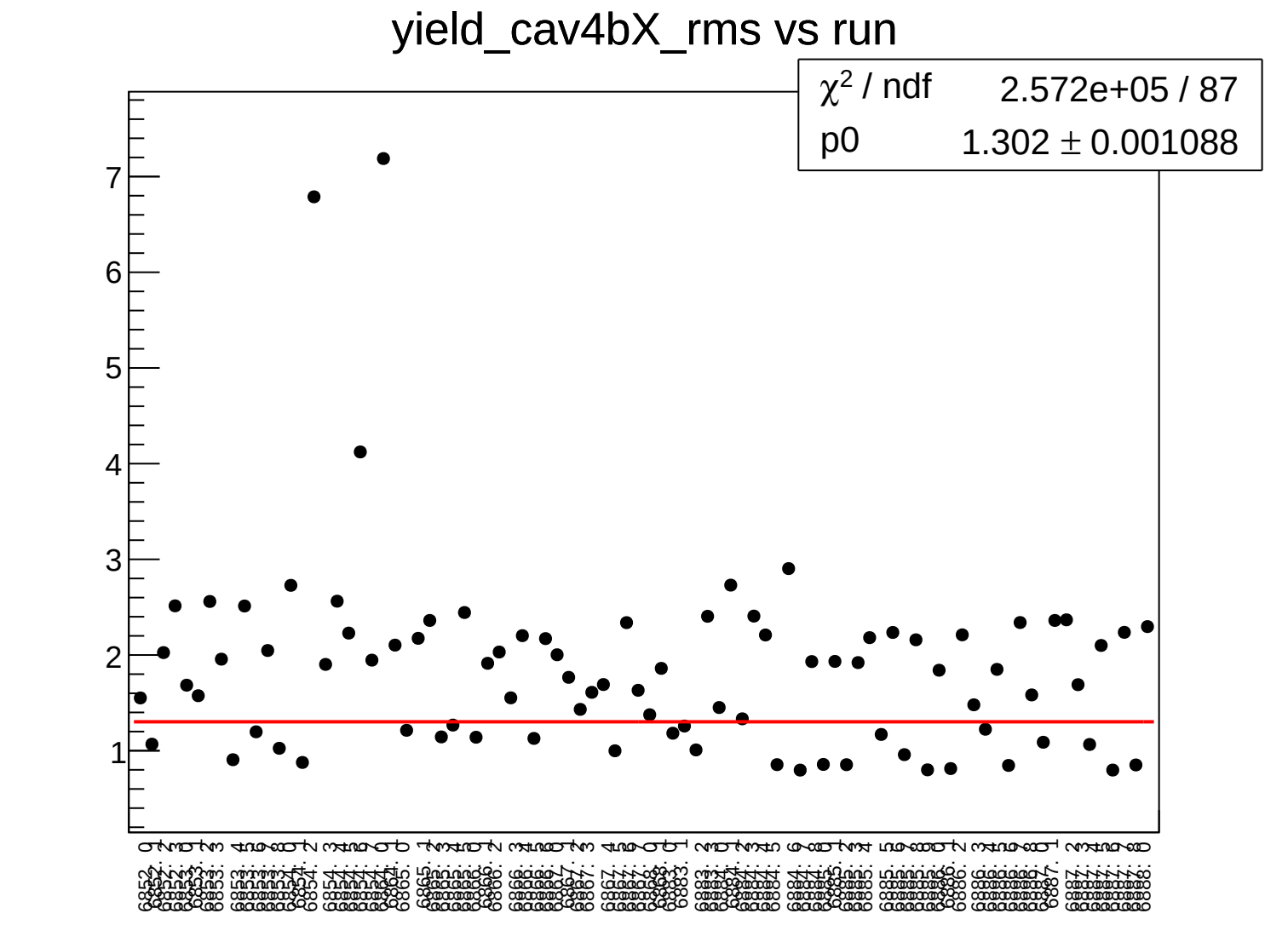

diff_bpmtargetdiffY_mean vs run
χ² / ndf 73.99 / 87
p0 1.976 ± 1.744
pull
Entries 88
Mean −184
Std Dev 0

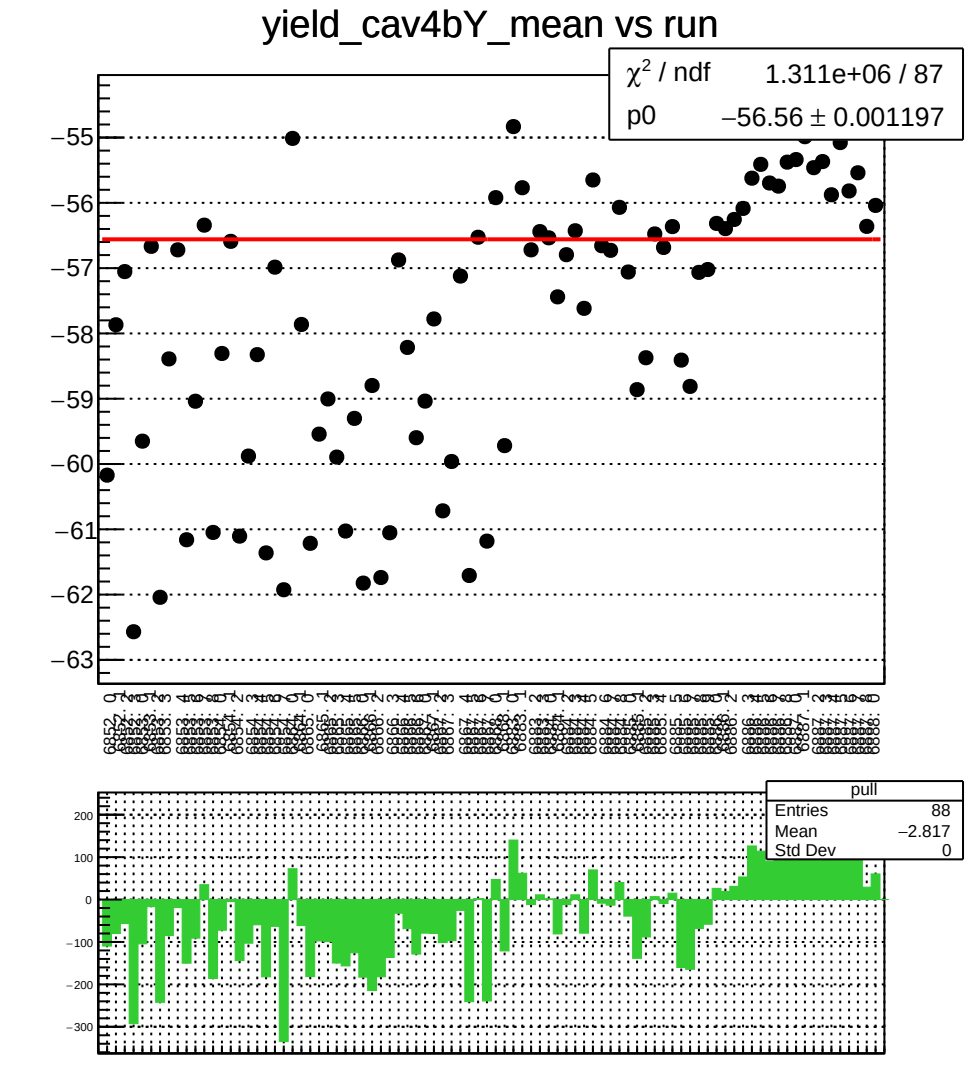

pull1D
Entries 88
Mean 0.008789
Std Dev 0.9169

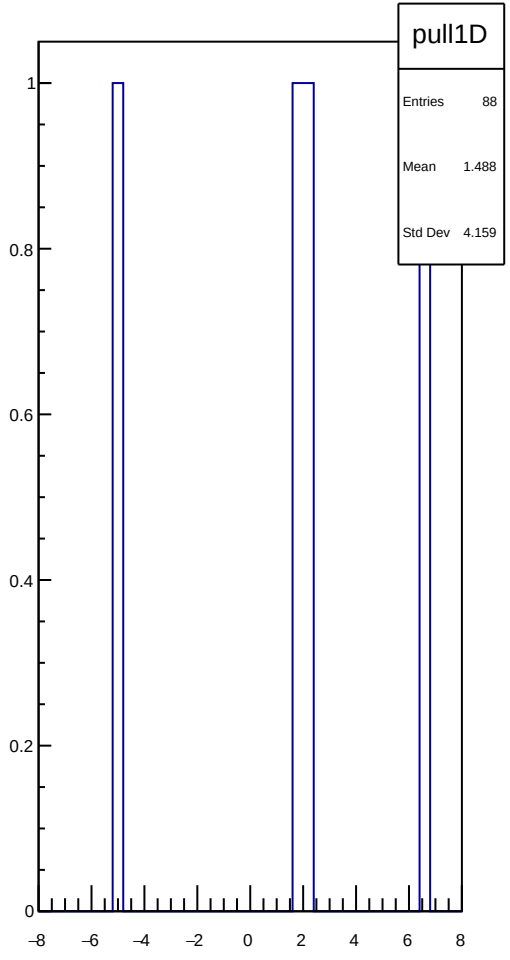

diff_bpmtargetdiffY_rms vs run
χ² / ndf 2.13e+05 / 87
p0 1499 ± 1.233
4000
3500
3000
2500
2000
1500
1000

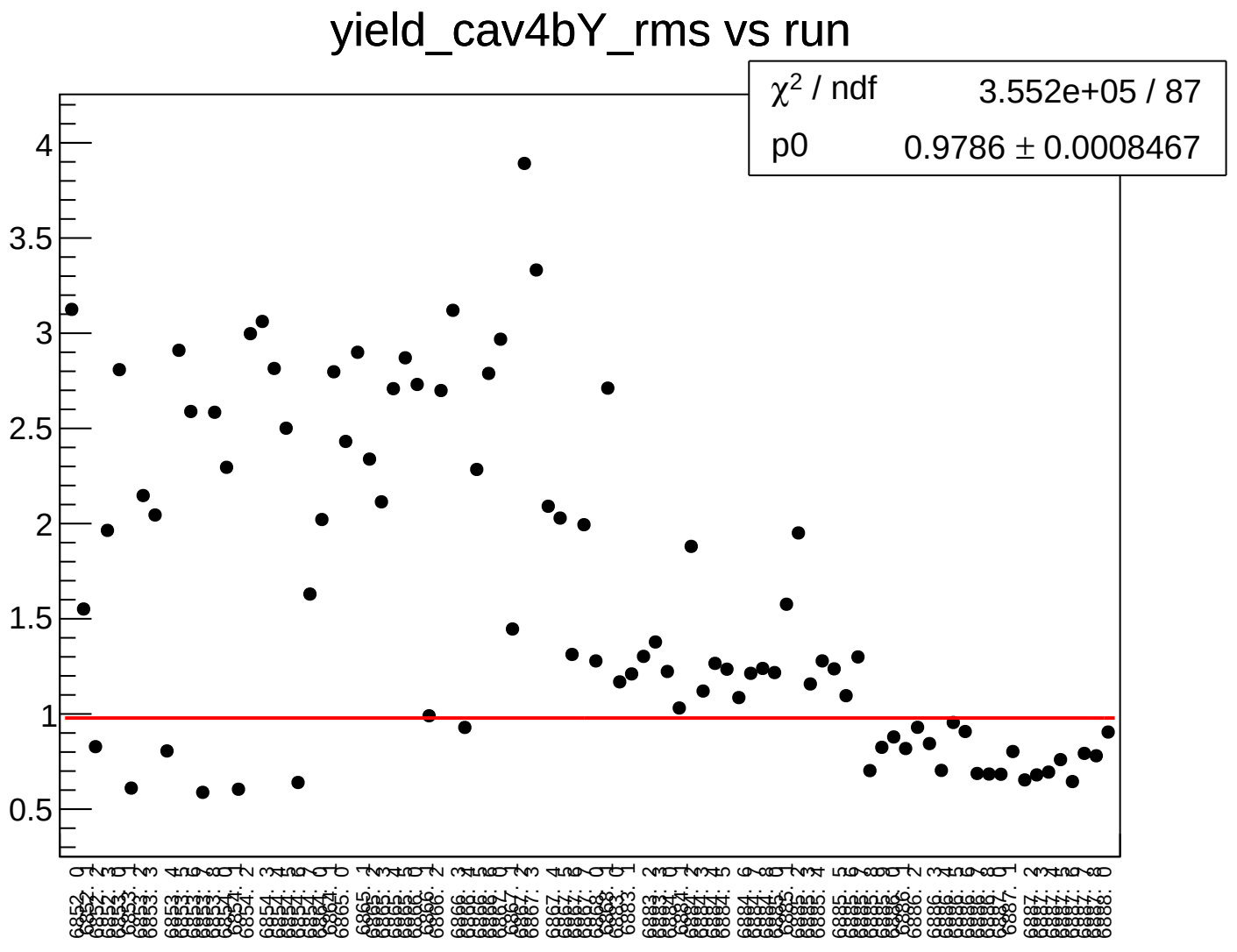

yield_cav4bX_mean vs run
χ² / ndf 2.864e+06 / 87
p0 −24.45 ± 0.001538
−20
−22
−24
−26
−28
pull
Entries 88
Mean −538.1
Std Dev 0
300
200
100
0
−100
−200
−300
−400

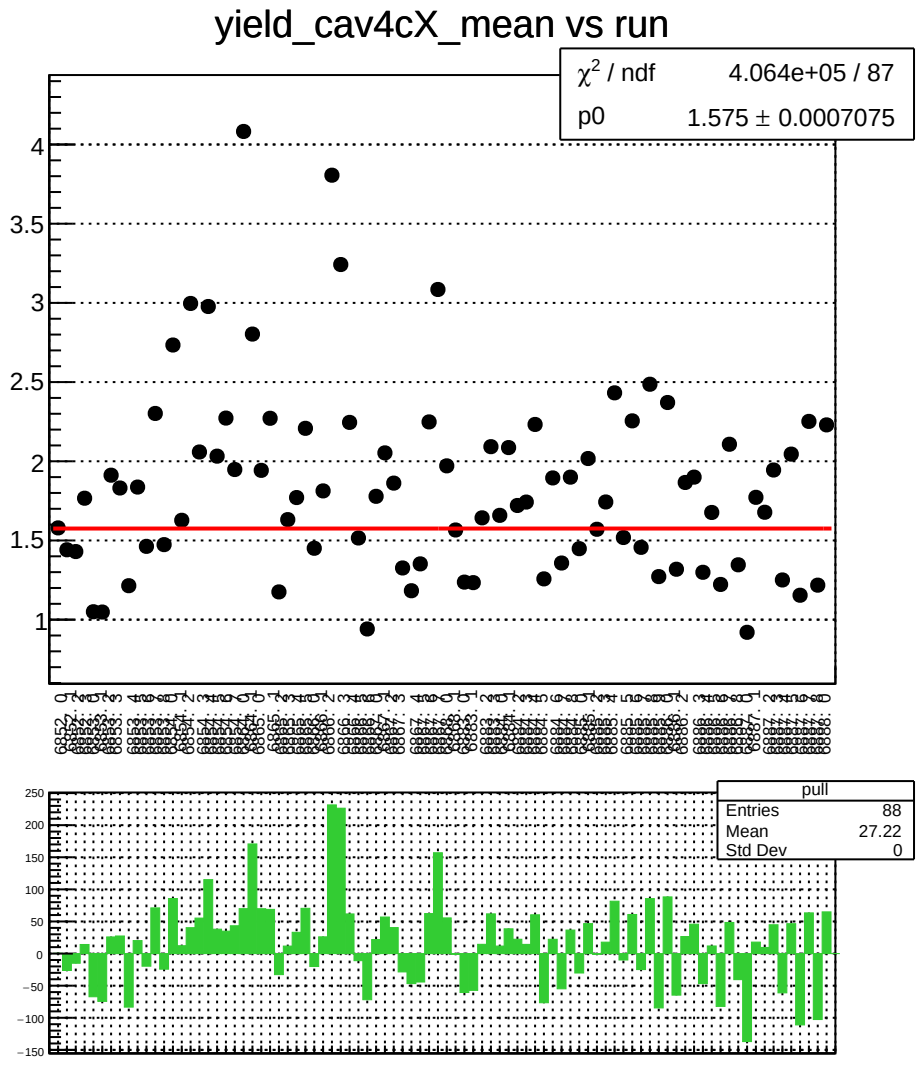

pull1D
Entries 88
Mean −7.968
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

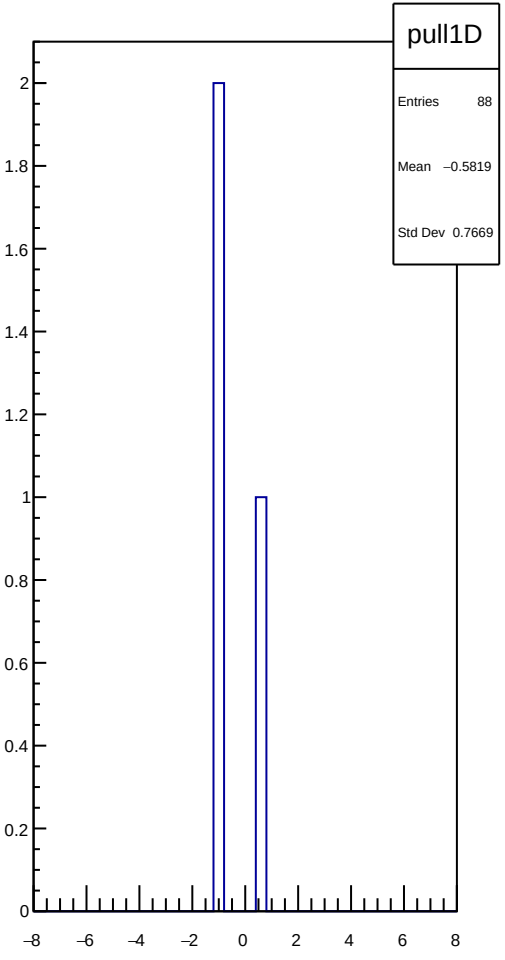

yield_cav4bX_rms vs run
χ^2 / ndf 2.572e+05 / 87
p0 1.302 ± 0.001088
7
6
5
4
3
2
1

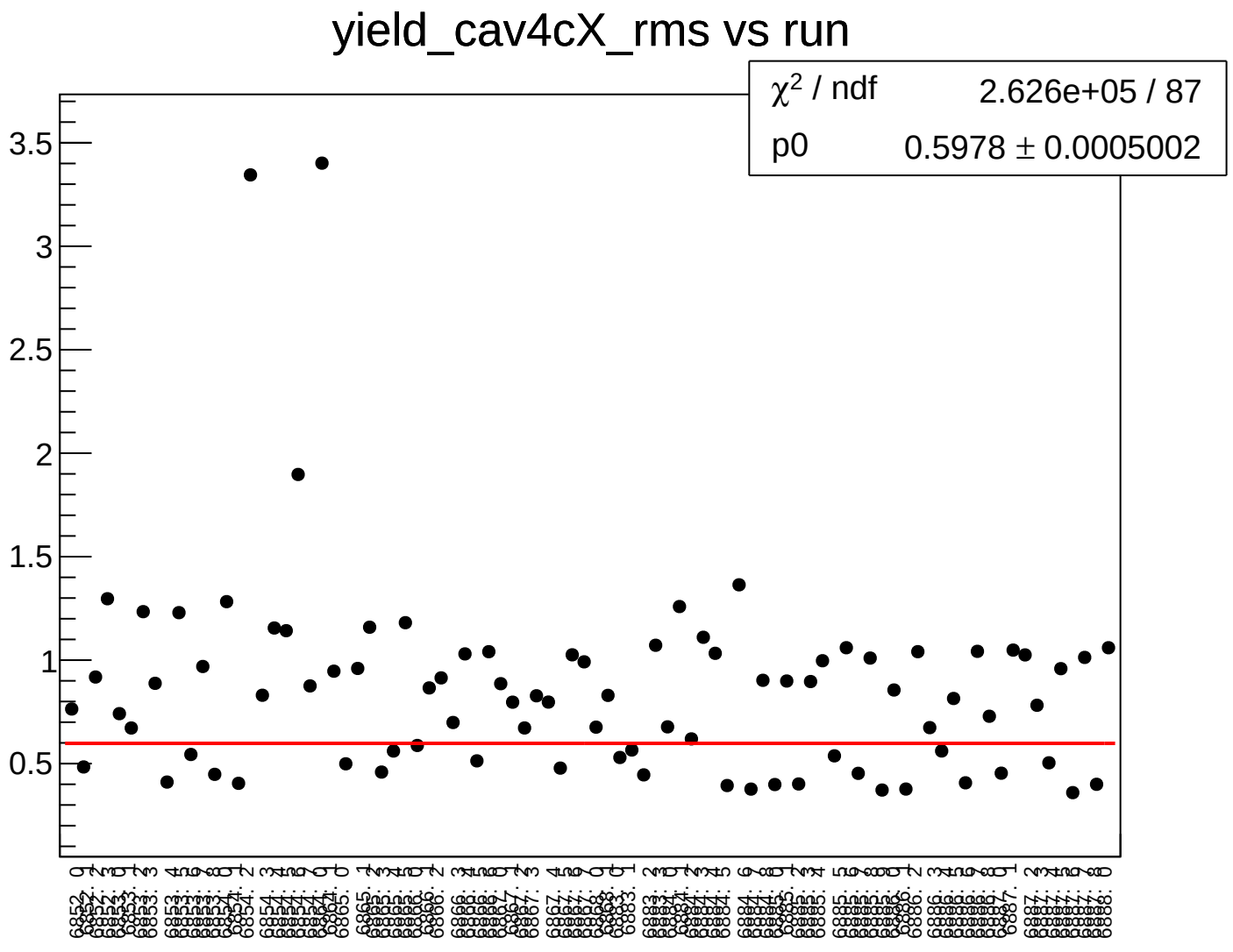

yield_cav4bY_mean vs run
χ² / ndf 1.311e+06 / 87
p0 −56.56 ± 0.001197
−55
−56
−57
−58
−59
−60
−61
−62
−63
pull
Entries 88
Mean −2.817
Std Dev 0
200
100
0
−100
−200
−300

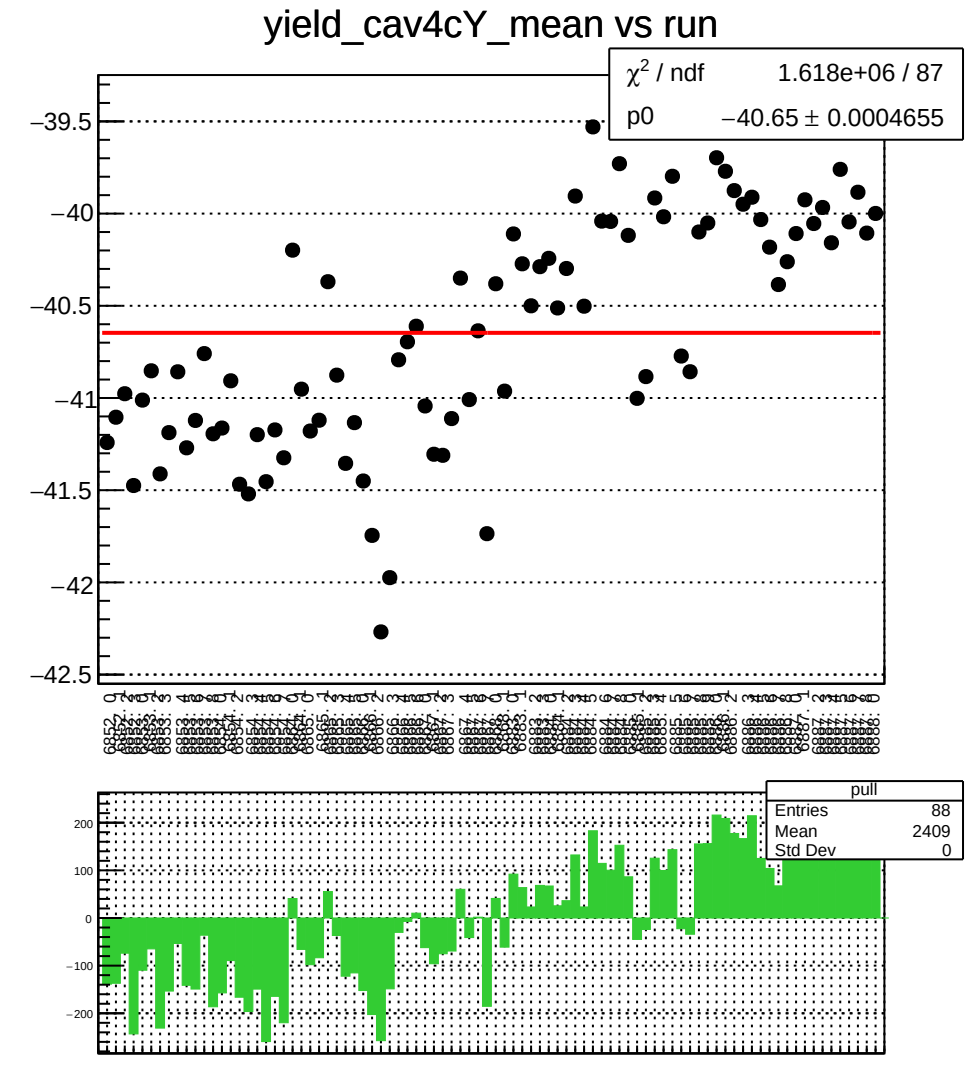

pull1D
Entries 88
Mean 1.488
Std Dev 4.159
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

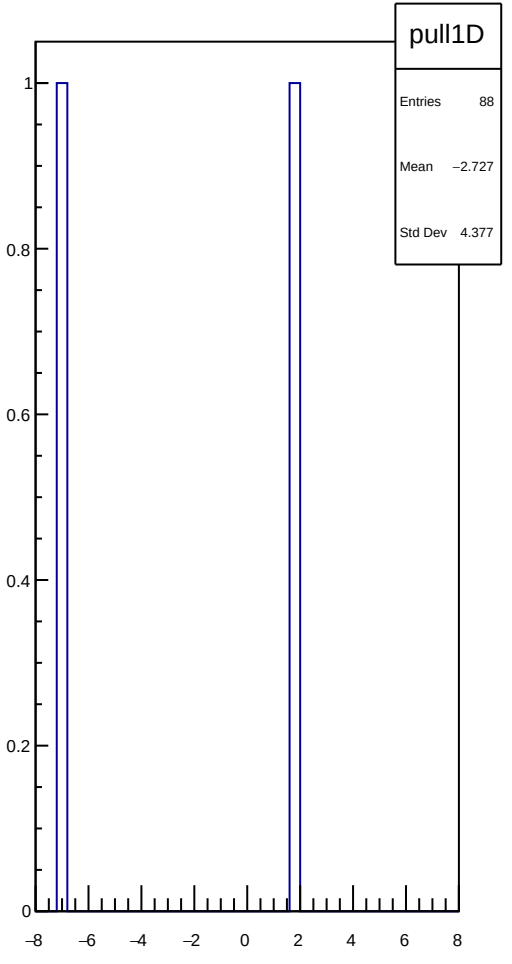

yield_cav4bY_rms vs run
χ² / ndf 3.552e+05 / 87
p0 0.9786 ± 0.0008467
4
3.5
3
2.5
2
1.5
1
0.5

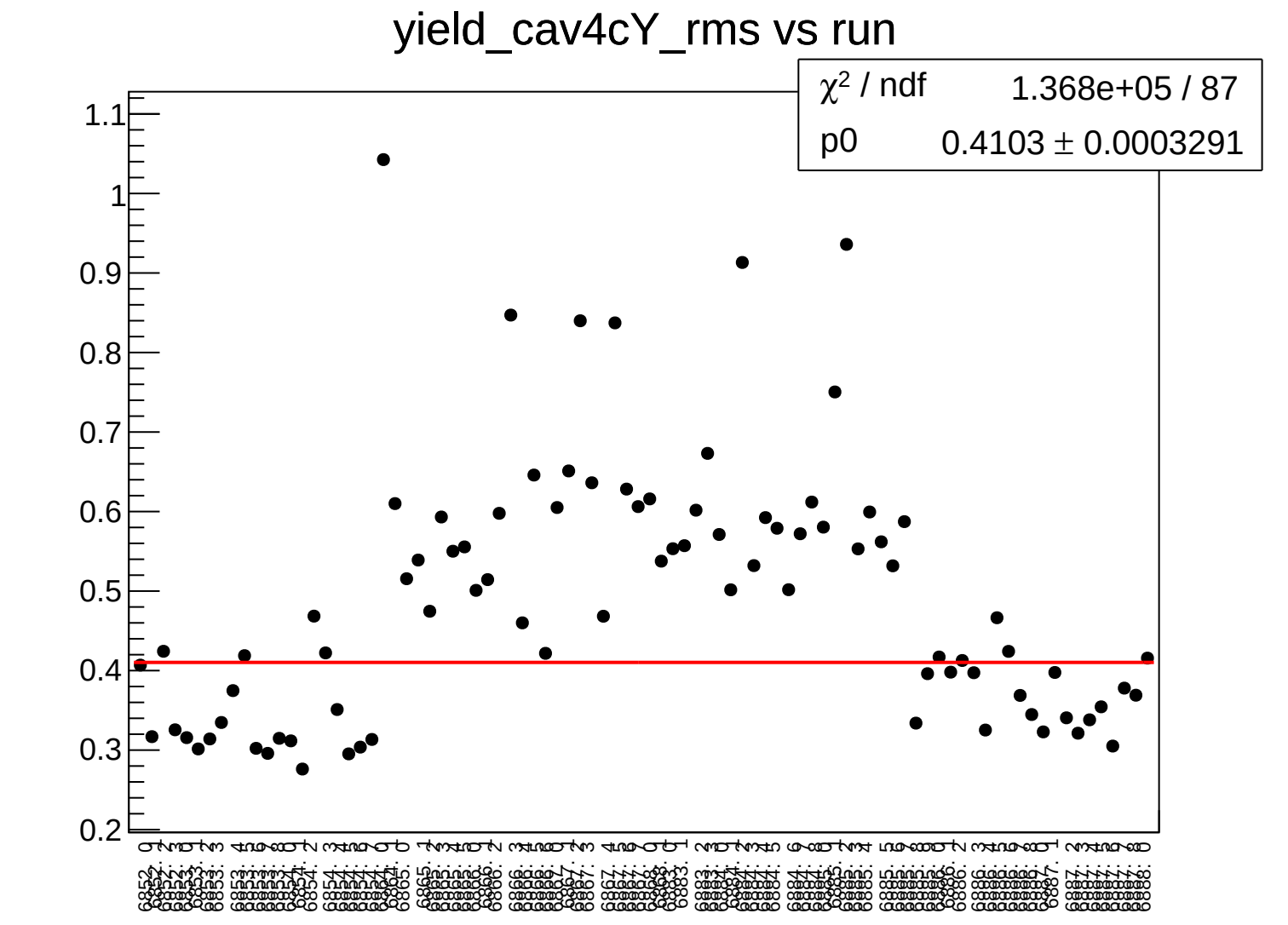

yield_cav4cX_mean vs run
χ² / ndf 4.064e+05 / 87
p0 1.575 ± 0.0007075
pull
Entries 88
Mean 27.22
Std Dev 0

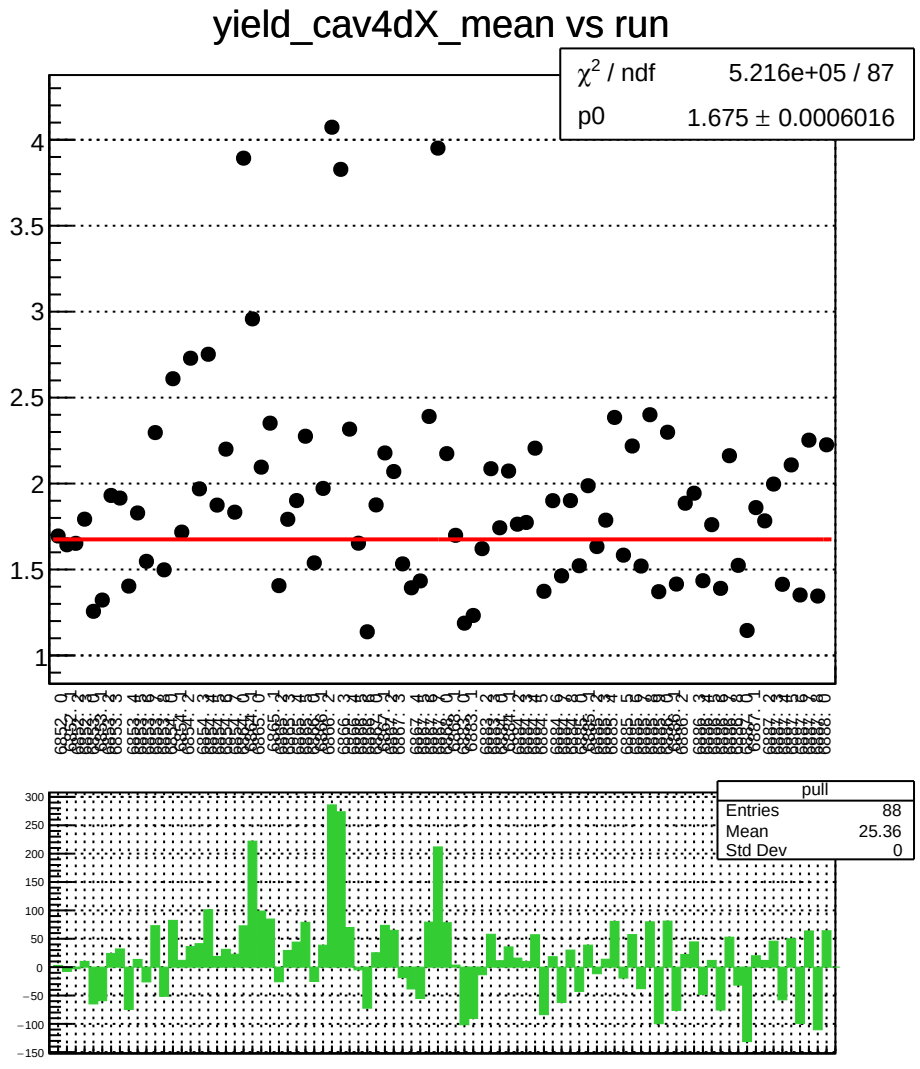

pull1D
Entries 88
Mean −0.5819
Std Dev 0.7669

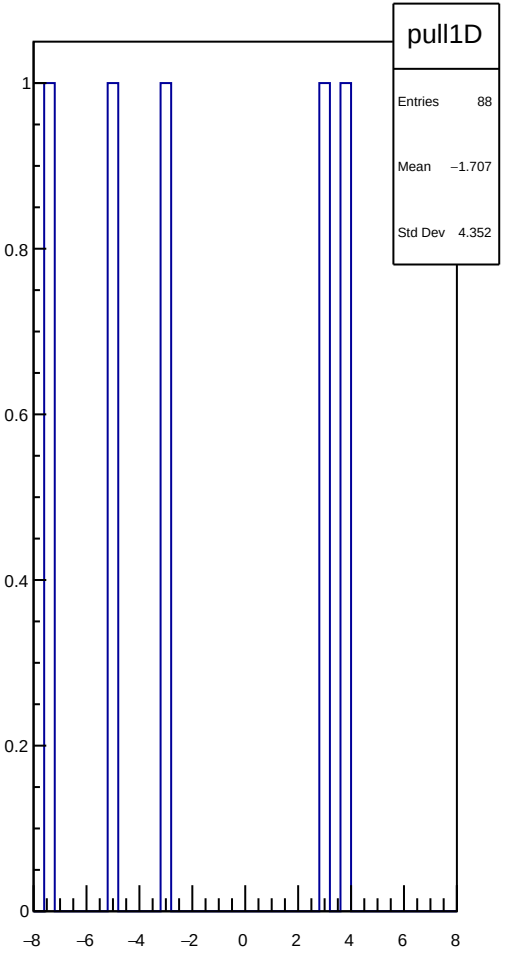

yield_cav4cX_rms vs run
χ² / ndf 2.626e+05 / 87
p0 0.5978 ± 0.0005002
3.5
3
2.5
2
1.5
1
0.5

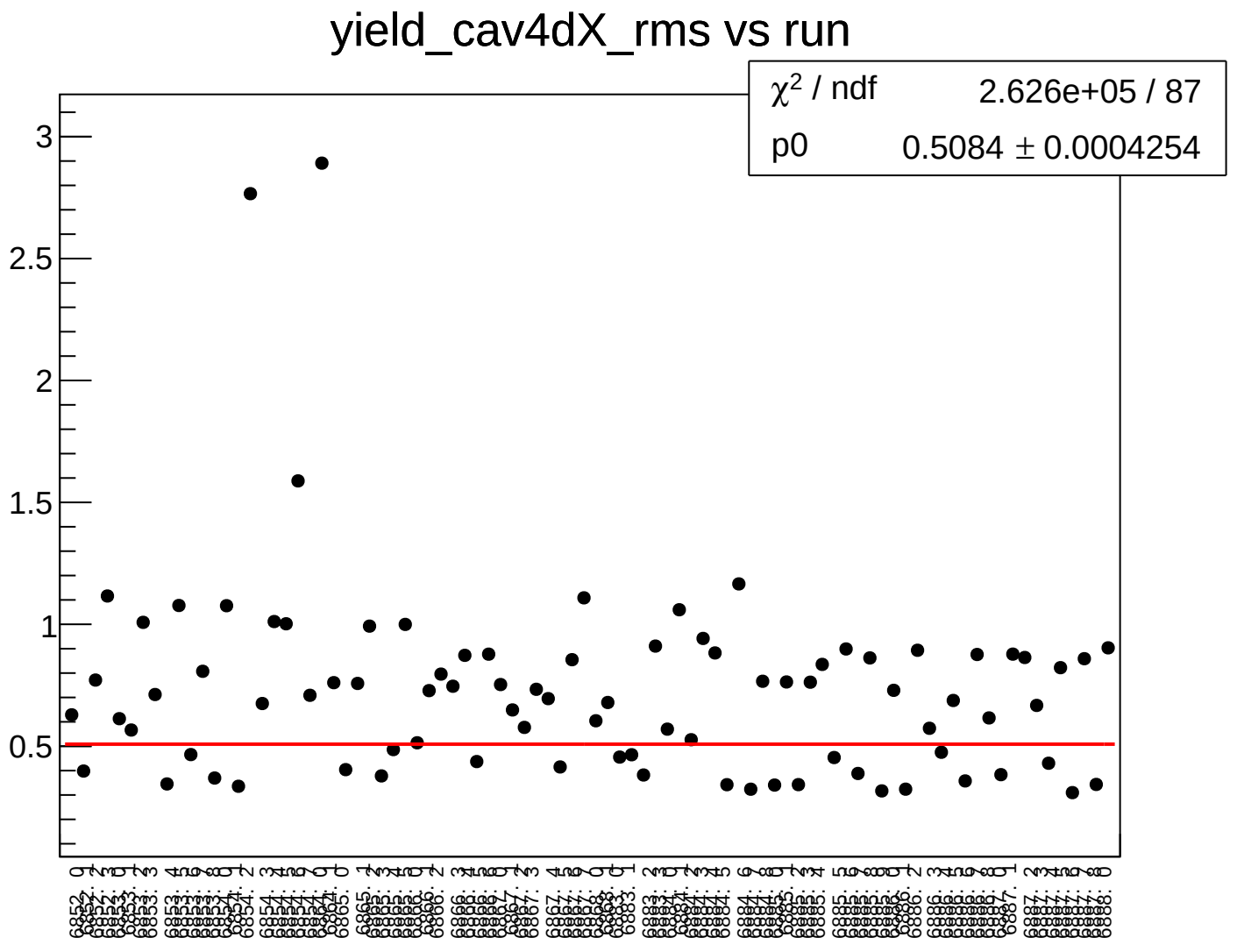

yield_cav4cY_mean vs run
χ² / ndf 1.618e+06 / 87
p0 −40.65 ± 0.0004655
−39.5
−40
−40.5
−41
−41.5
−42
−42.5
pull
Entries 88
Mean 2409
Std Dev 0
200
100
0
−100
−200

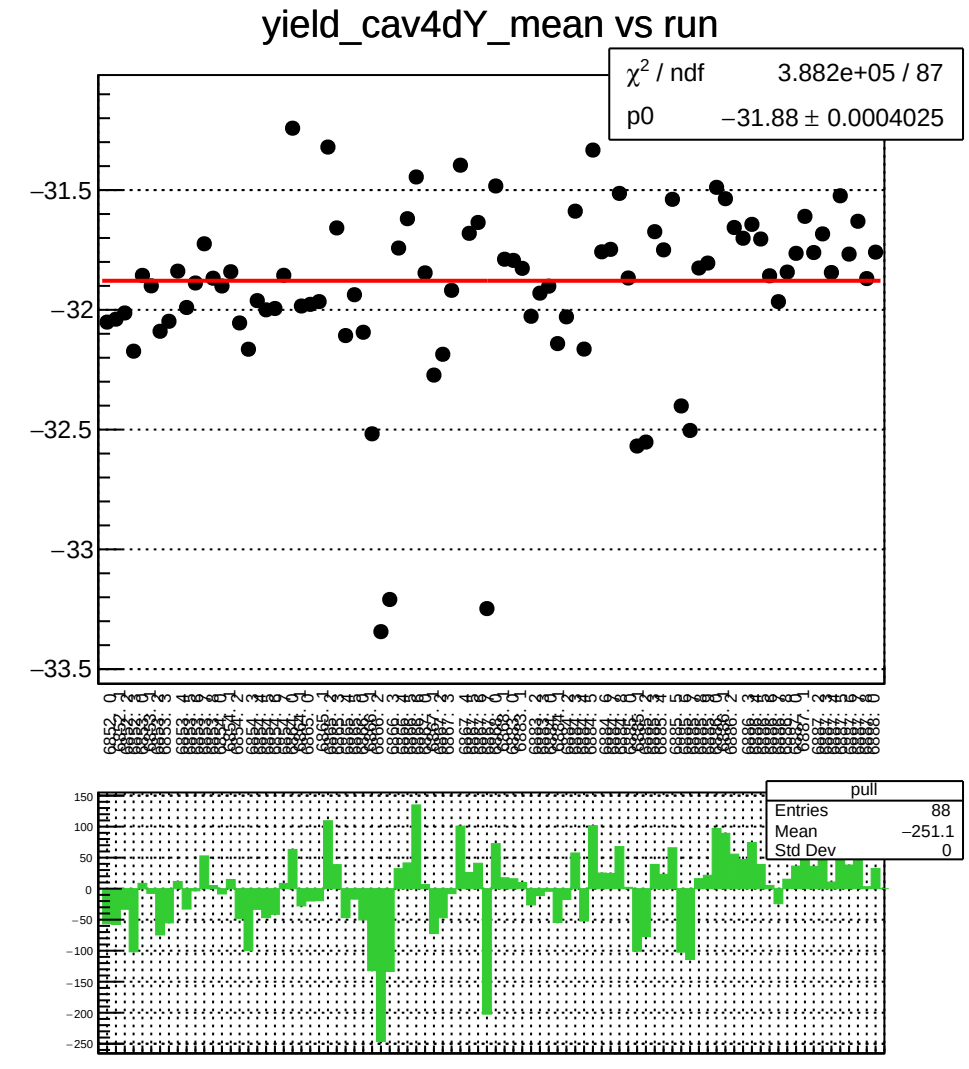

pull1D
Entries 88
Mean −2.727
Std Dev 4.377
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

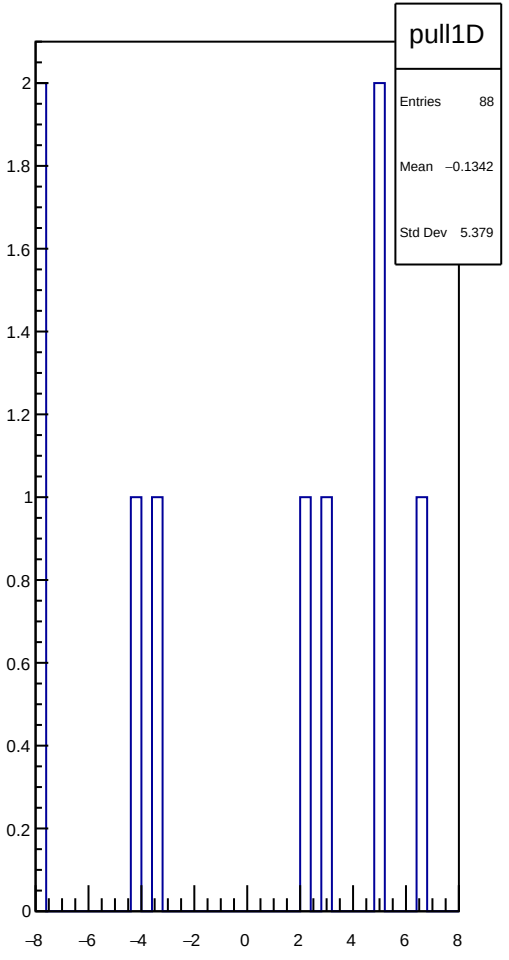

yield_cav4cY_rms vs run
χ² / ndf 1.368e+05 / 87
p0 0.4103 ± 0.0003291
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

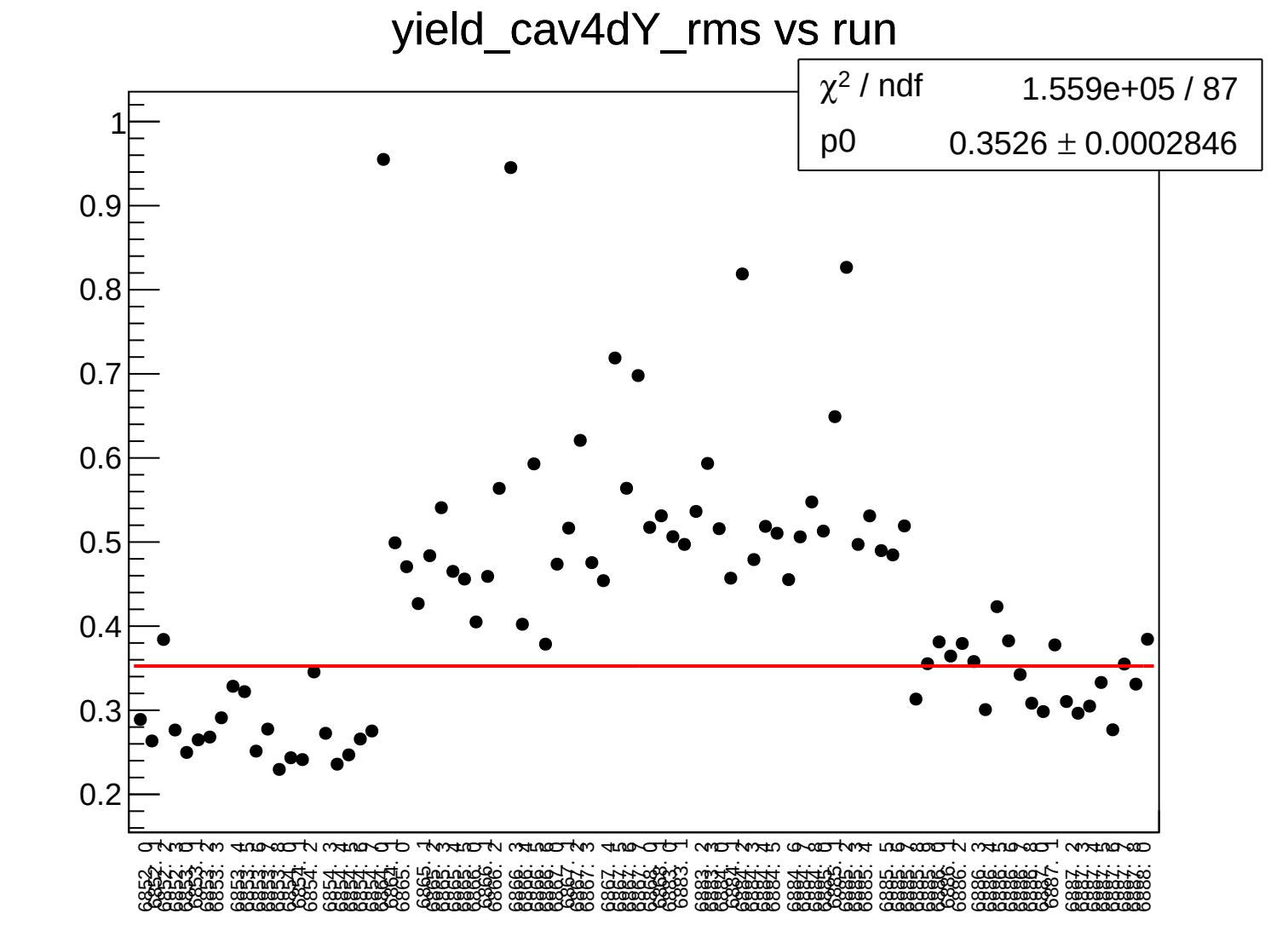

yield_cav4dX_mean vs run
χ² / ndf 5.216e+05 / 87
p0 1.675 ± 0.0006016
pull
Entries 88
Mean 25.36
Std Dev 0

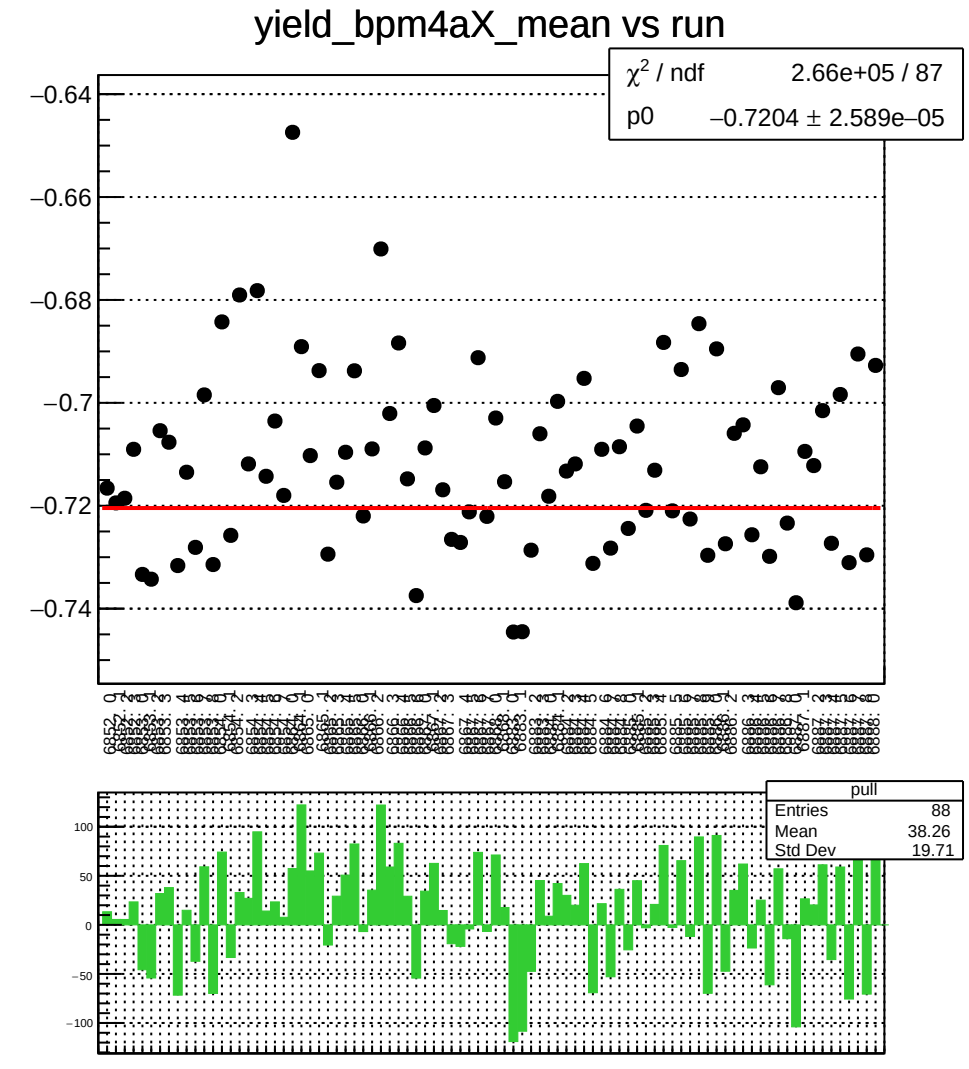

pull1D
Entries 88
Mean −1.707
Std Dev 4.352

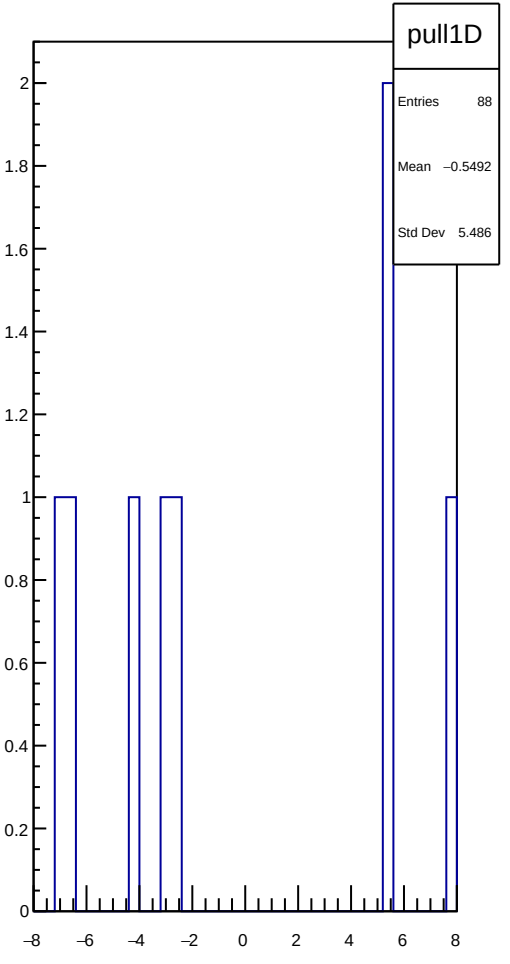

yield_cav4dX_rms vs run
χ² / ndf 2.626e+05 / 87
p0 0.5084 ± 0.0004254
3
2.5
2
1.5
1
0.5

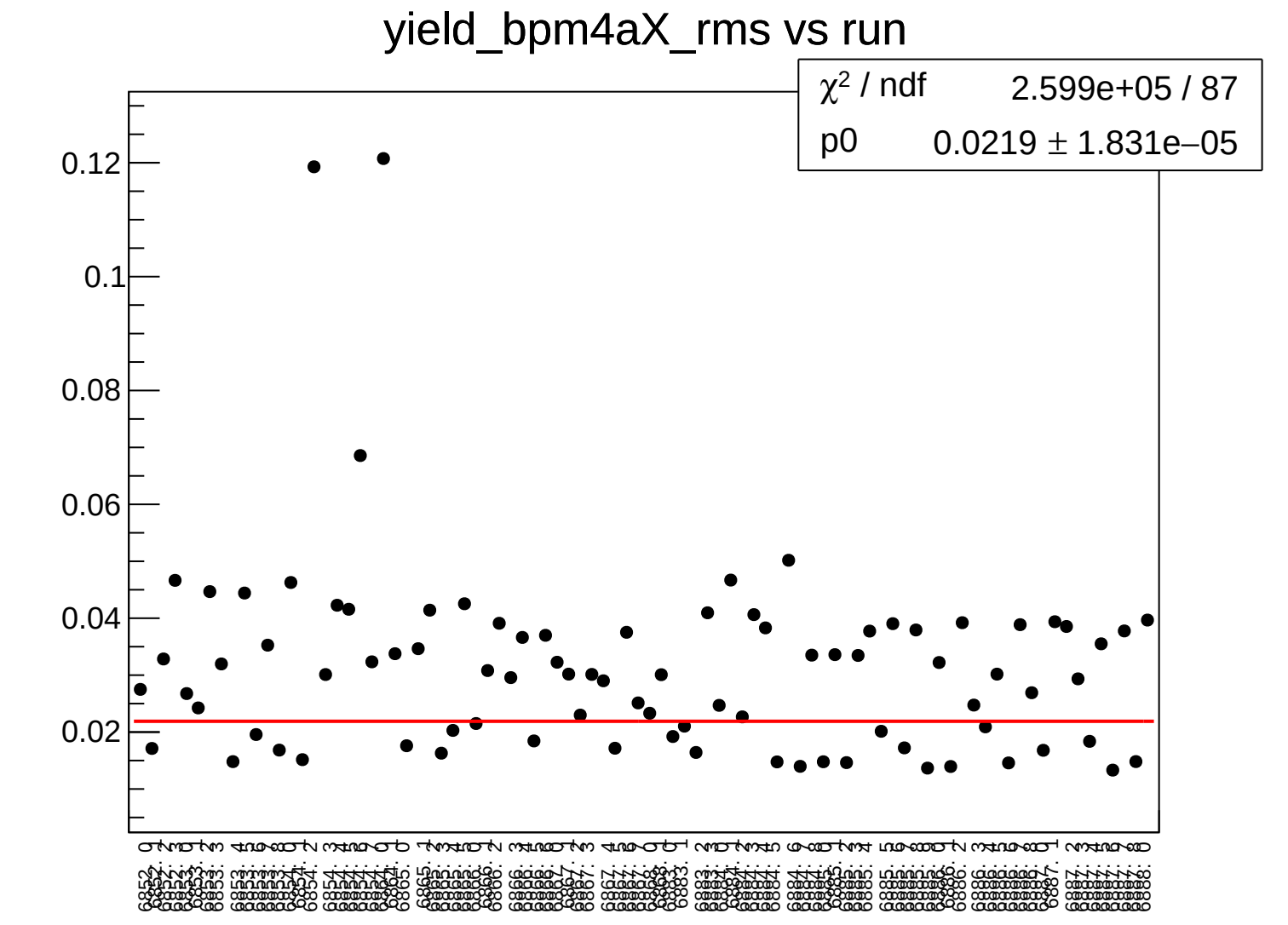

yield_cav4dY_mean vs run
χ² / ndf 3.882e+05 / 87
p0 −31.88 ± 0.0004025
−31.5
−32
−32.5
−33
−33.5
pull
Entries 88
Mean −251.1
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

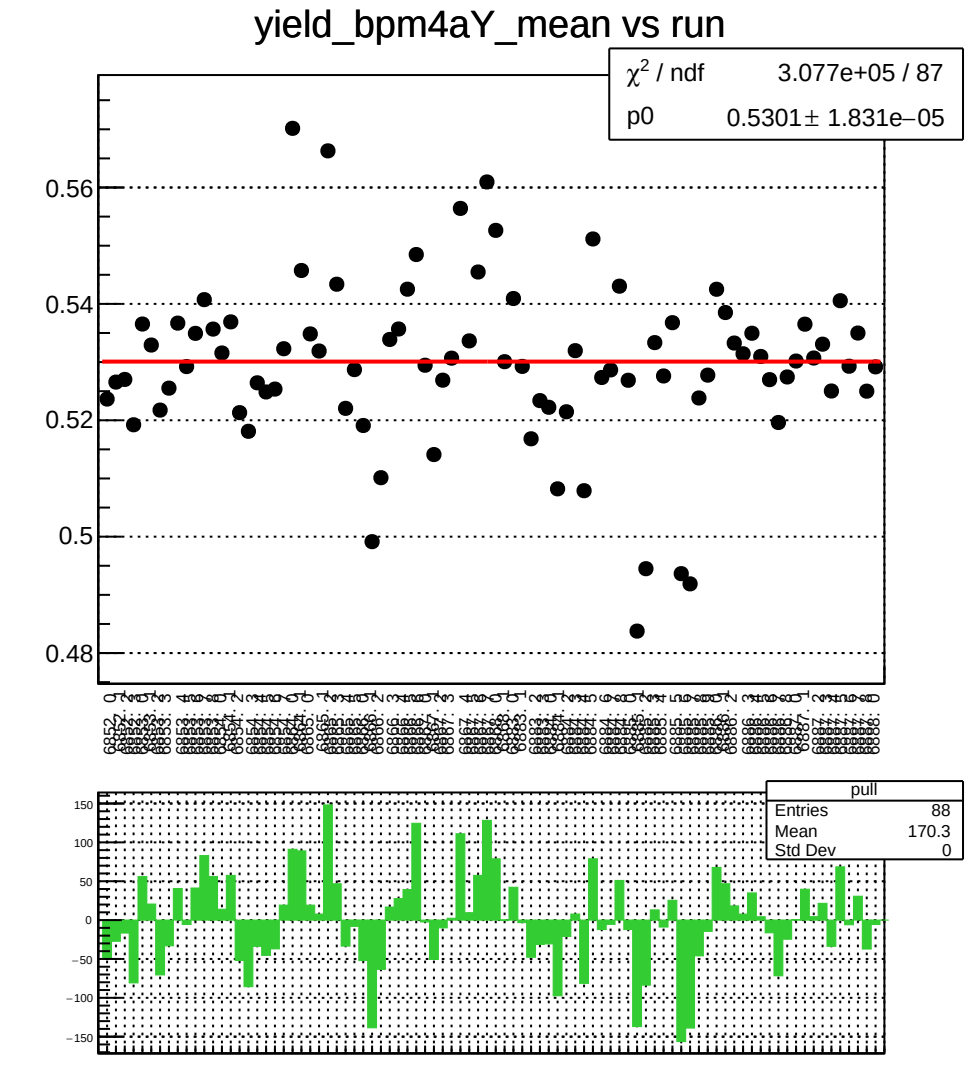

pull1D
Entries 88
Mean −0.1342
Std Dev 5.379
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

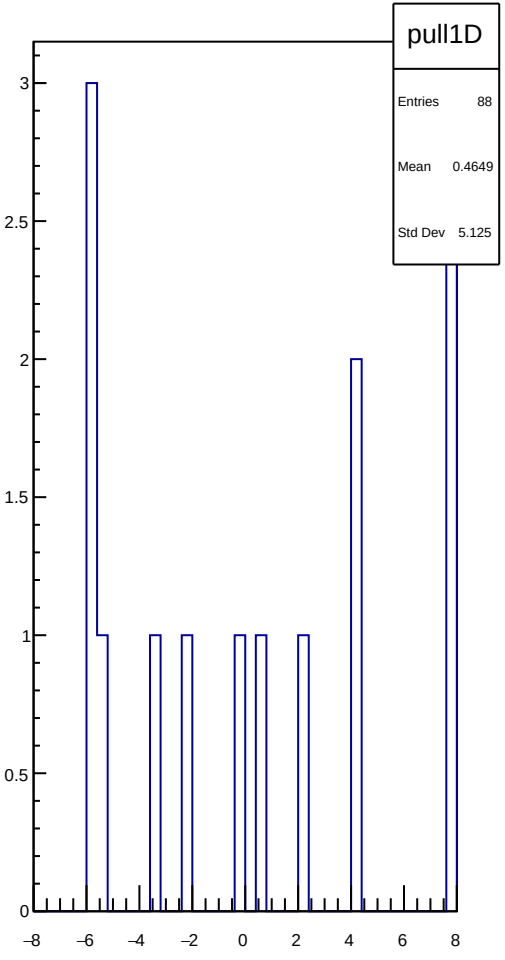

yield_cav4dY_rms vs run
χ^2 / ndf 1.559e+05 / 87
p0 0.3526 ± 0.0002846
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

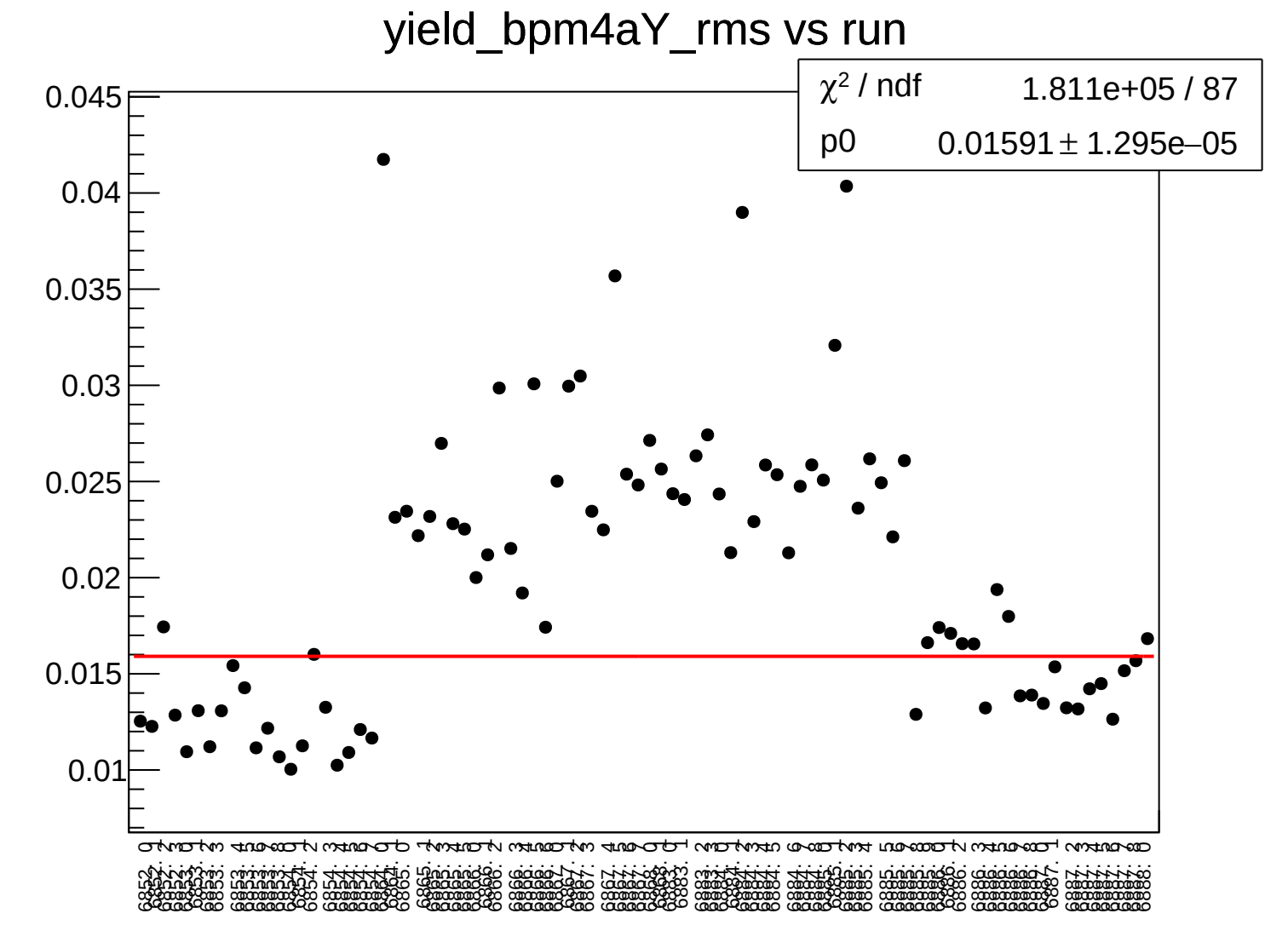

yield_bpm4aX_mean vs run
χ² / ndf 2.66e+05 / 87
p0 −0.7204 ± 2.589e−05
−0.64
−0.66
−0.68
−0.7
−0.72
−0.74
pull
Entries 88
Mean 38.26
Std Dev 19.71
100
50
0
−50
−100

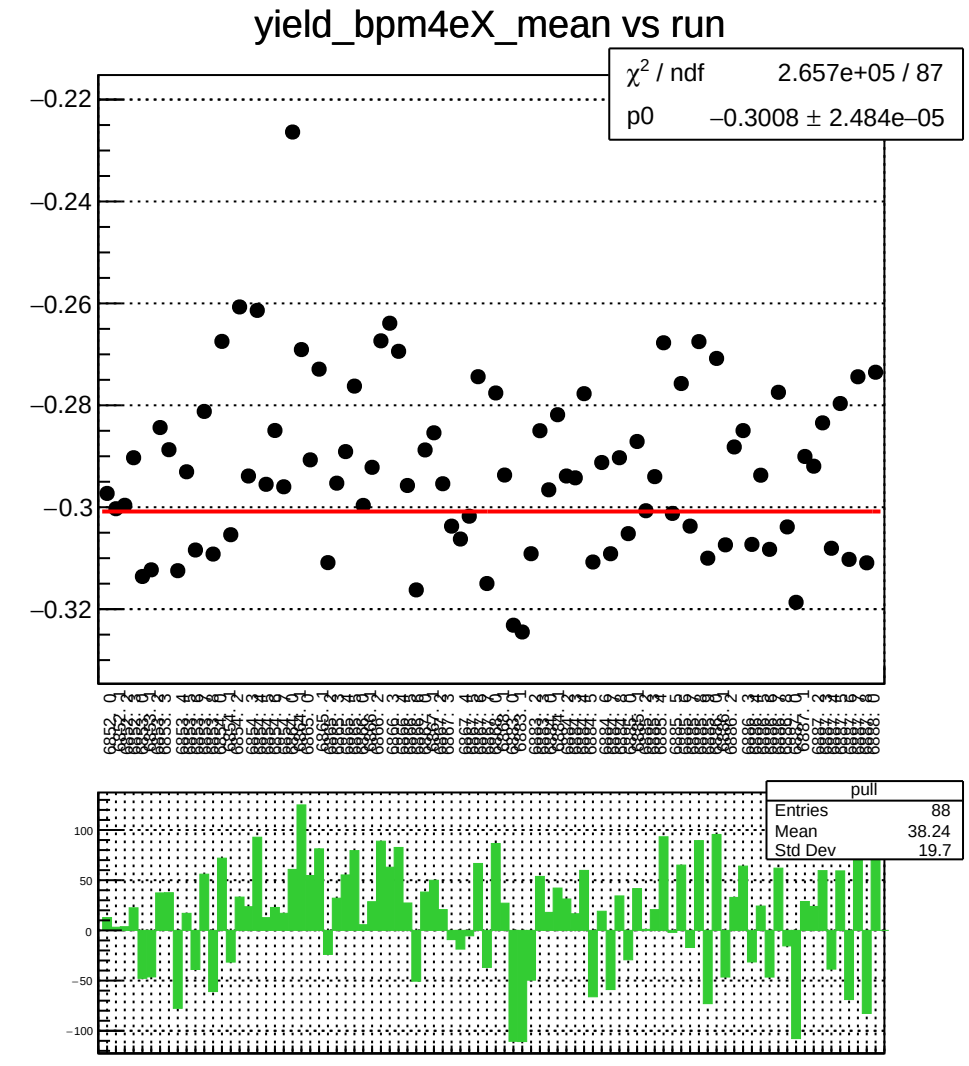

pull1D
Entries 88
Mean −0.5492
Std Dev 5.486
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

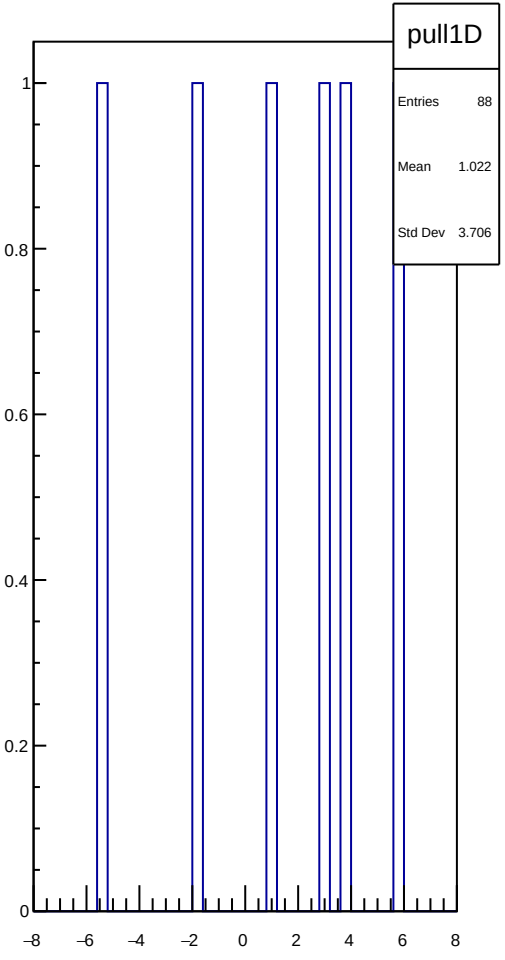

yield_bpm4aX_rms vs run
χ² / ndf 2.599e+05 / 87
p0 0.0219 ± 1.831e−05
0.12
0.1
0.08
0.06
0.04
0.02

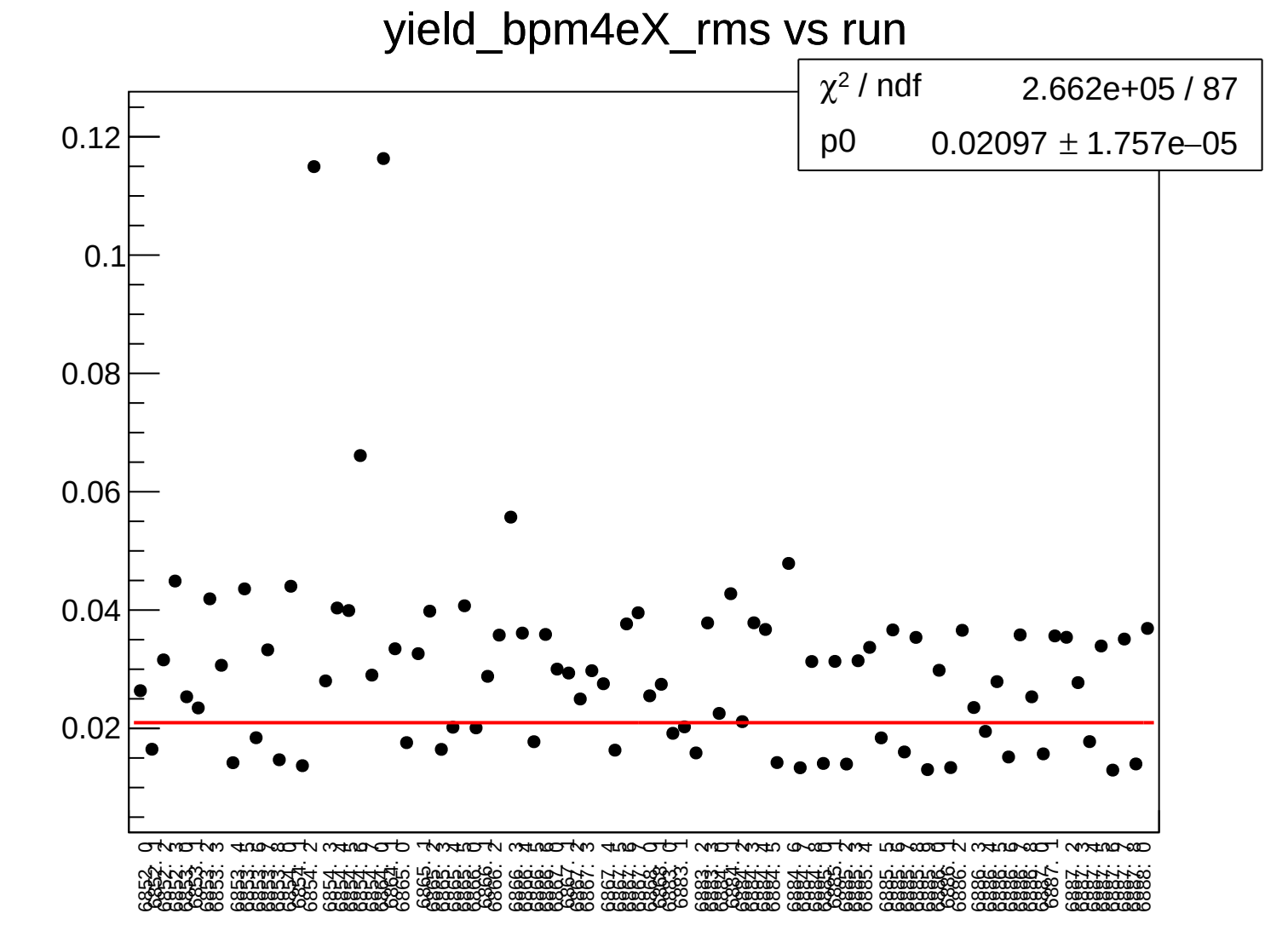

yield_bpm4aY_mean vs run
χ² / ndf 3.077e+05 / 87
p0 0.5301 ± 1.831e−05
0.56
0.54
0.52
0.5
0.48
pull
Entries 88
Mean 170.3
Std Dev 0
150
100
50
0
−50
−100
−150

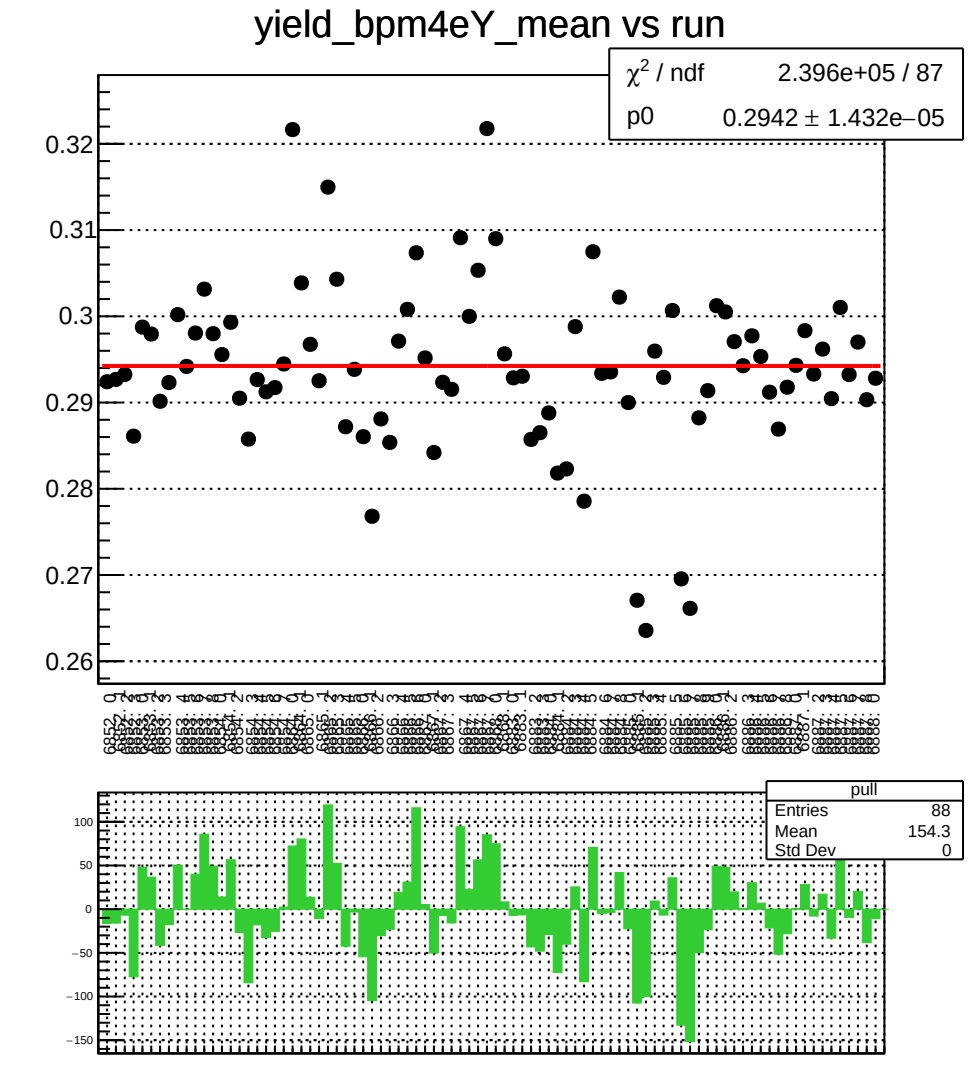

pull1D
Entries 88
Mean 0.4649
Std Dev 5.125
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

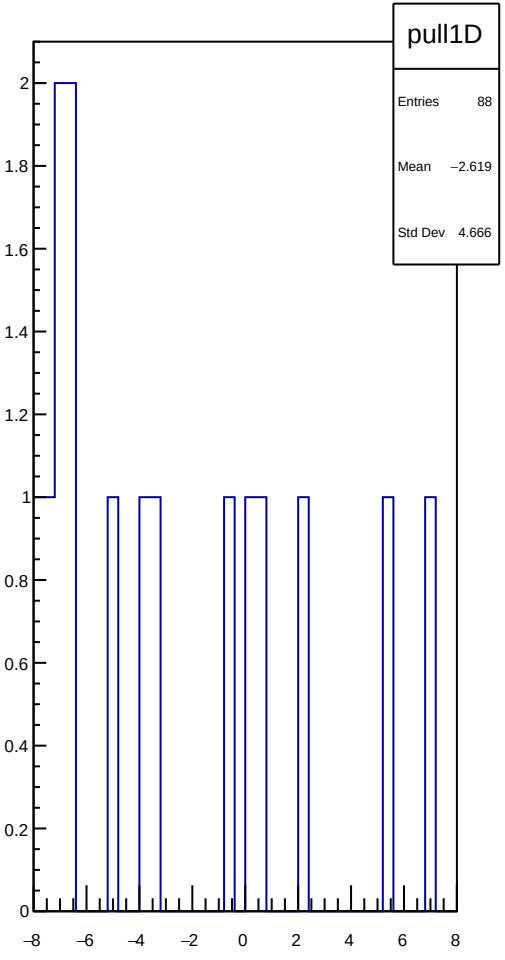

yield_bpm4aY_rms vs run
χ² / ndf 1.811e+05 / 87
p0 0.01591 ± 1.295e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

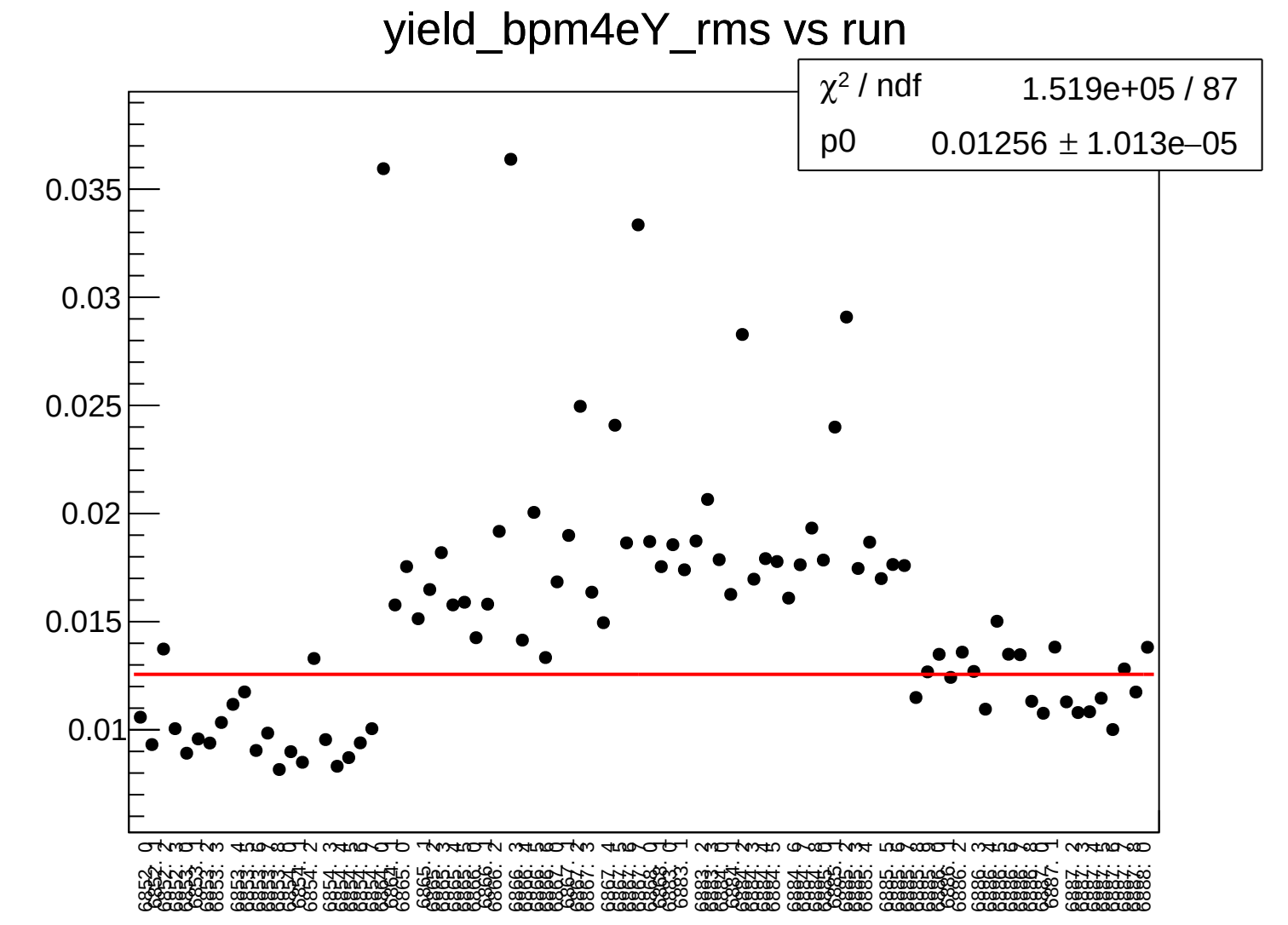

yield_bpm4eX_mean vs run
χ² / ndf 2.657e+05 / 87
p0 −0.3008 ± 2.484e−05
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
pull
Entries 88
Mean 38.24
Std Dev 19.7
100
50
0
−50
−100

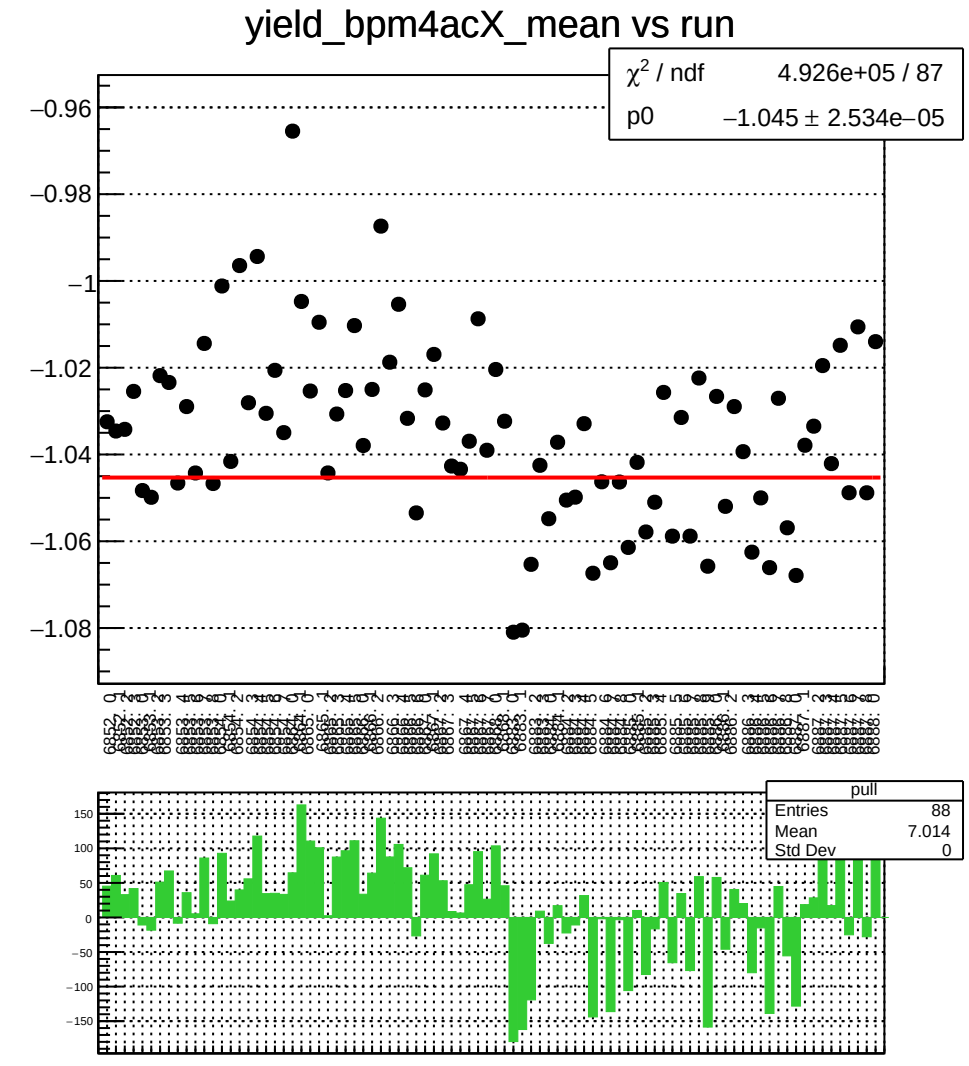

pull1D
Entries 88
Mean 1.022
Std Dev 3.706
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

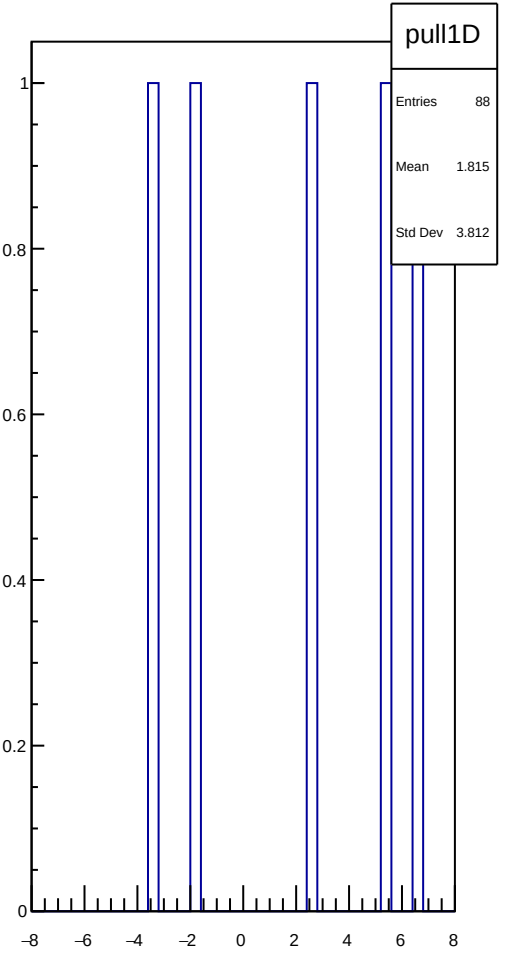

yield_bpm4eX_rms vs run
χ² / ndf 2.662e+05 / 87
p0 0.02097 ± 1.757e–05
0.12
0.1
0.08
0.06
0.04
0.02

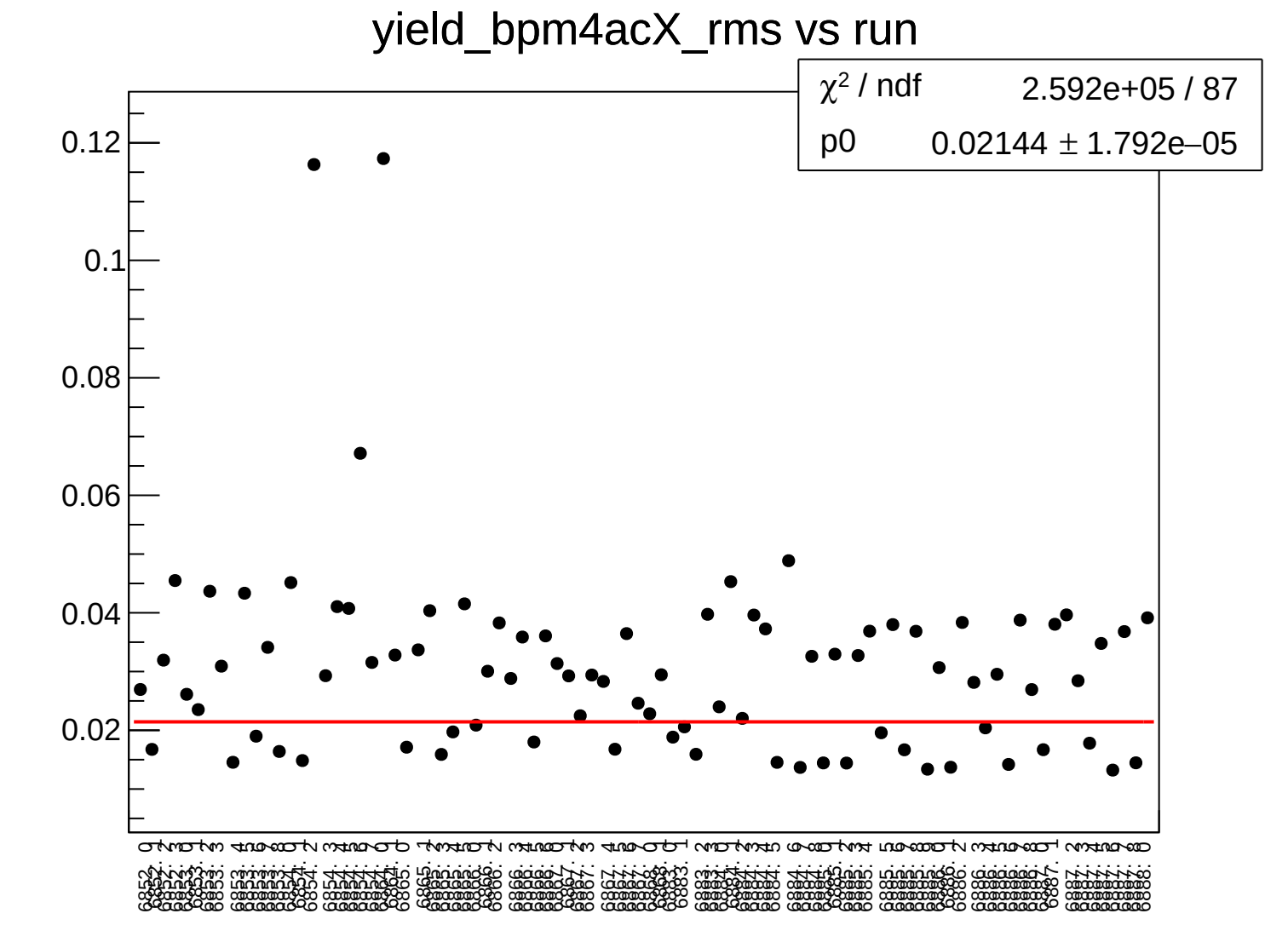

yield_bpm4eY_mean vs run
χ² / ndf 2.396e+05 / 87
p0 0.2942 ± 1.432e−05
0.32
0.31
0.3
0.29
0.28
0.27
0.26
pull
Entries 88
Mean 154.3
Std Dev 0
100
50
0
−50
−100
−150

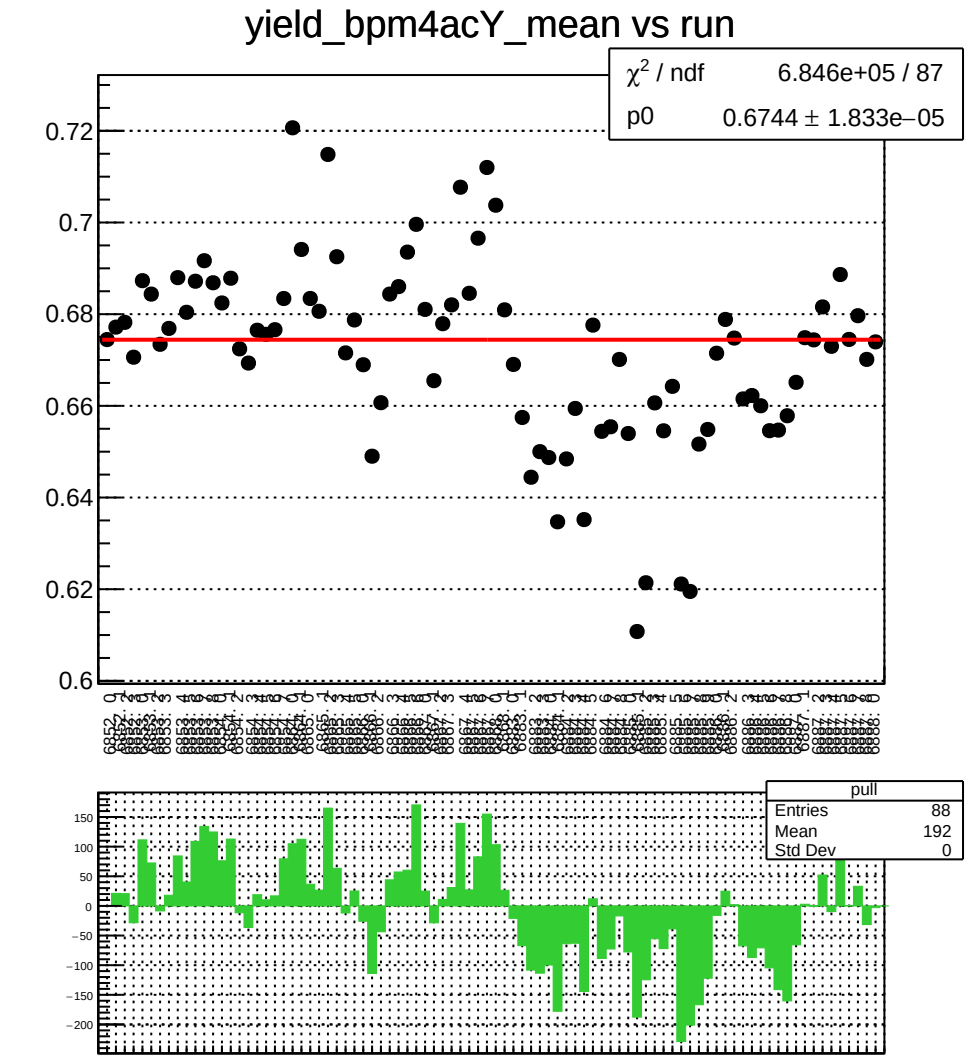

pull1D
Entries 88
Mean −2.619
Std Dev 4.666
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

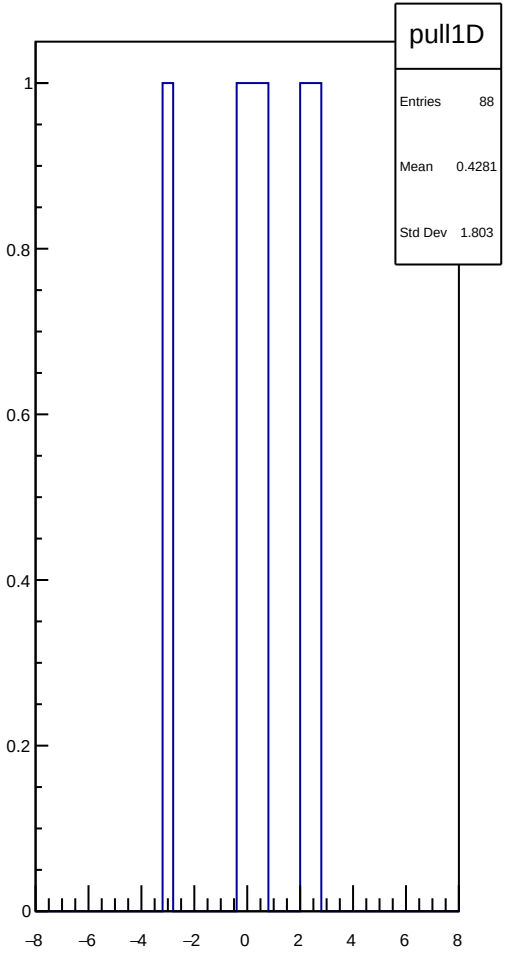

yield_bpm4eY_rms vs run
χ² / ndf 1.519e+05 / 87
p0 0.01256 ± 1.013e−05
0.035
0.03
0.025
0.02
0.015
0.01

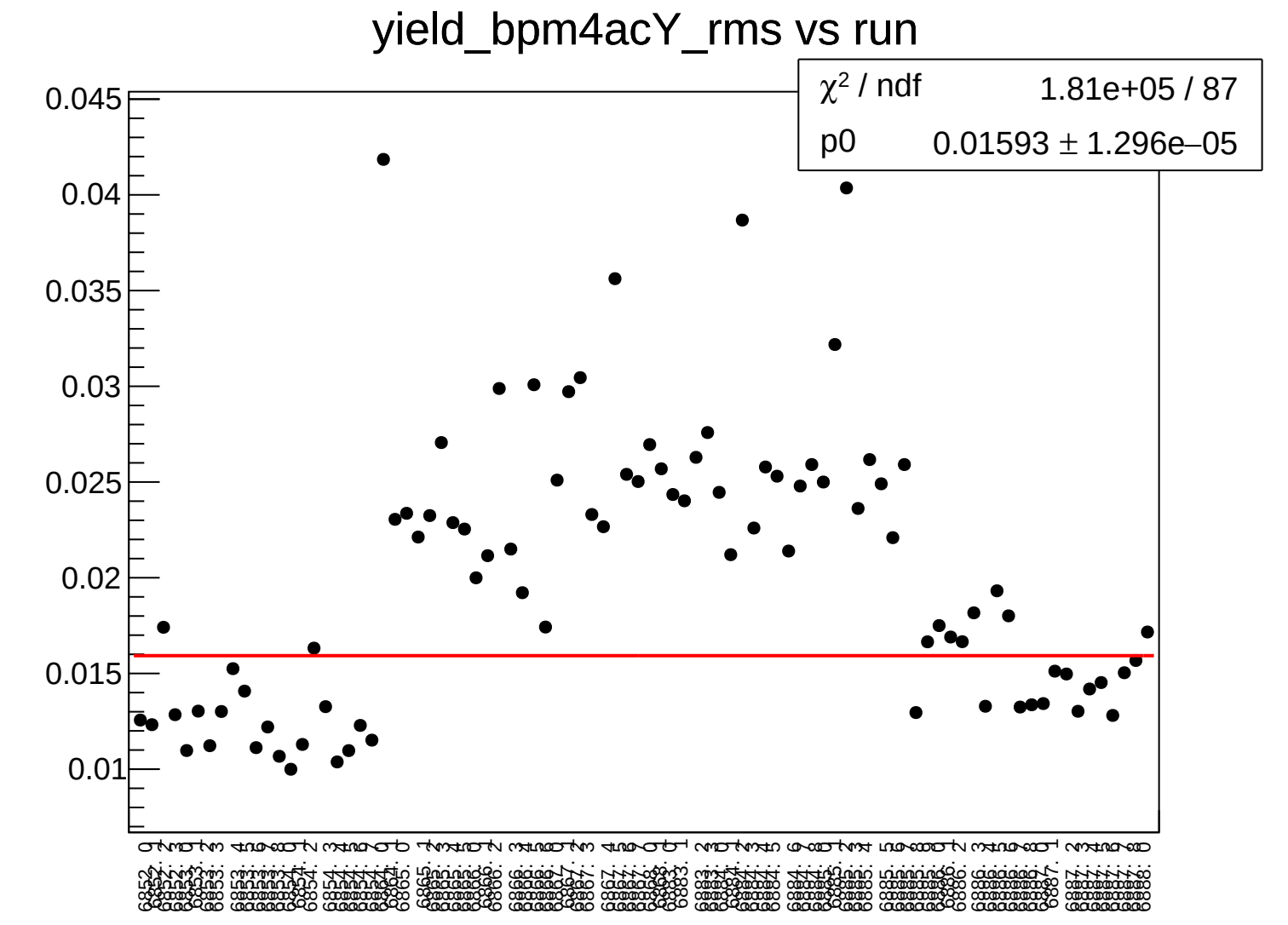

yield_bpm4acX_mean vs run
χ² / ndf 4.926e+05 / 87
p0 −1.045 ± 2.534e−05
−0.96
−0.98
−1
−1.02
−1.04
−1.06
−1.08
pull
Entries 88
Mean 7.014
Std Dev 0
150
100
50
0
−50
−100
−150

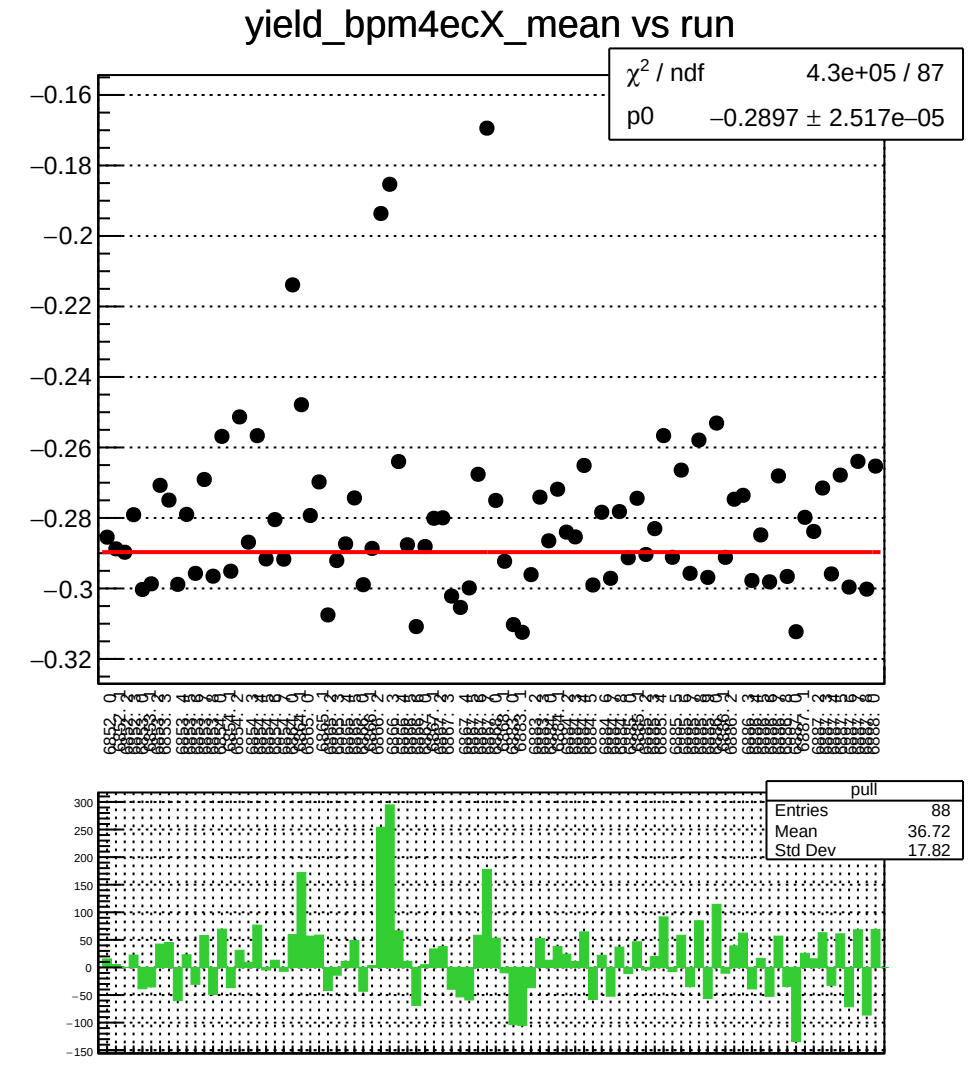

pull1D
Entries 88
Mean 1.815
Std Dev 3.812
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

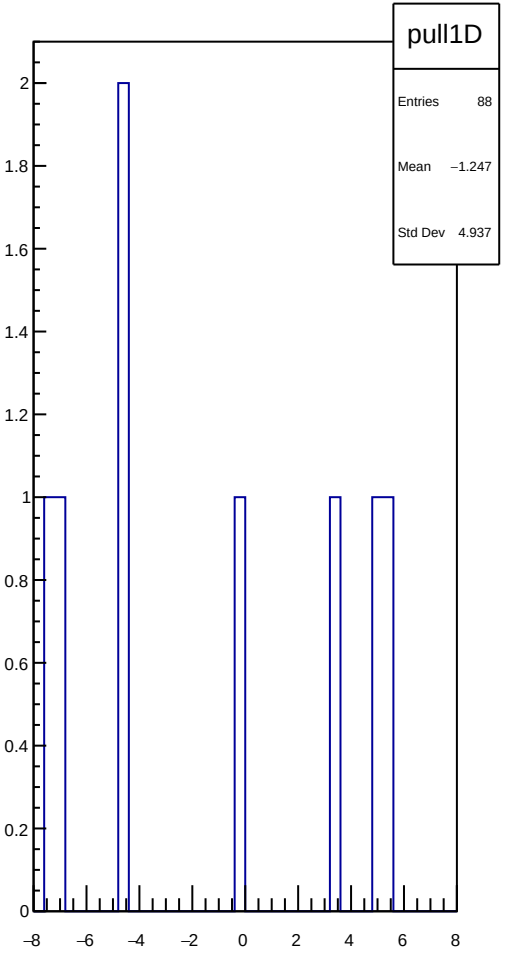

yield_bpm4acX_rms vs run
χ² / ndf 2.592e+05 / 87
p0 0.02144 ± 1.792e–05
0.12
0.1
0.08
0.06
0.04
0.02

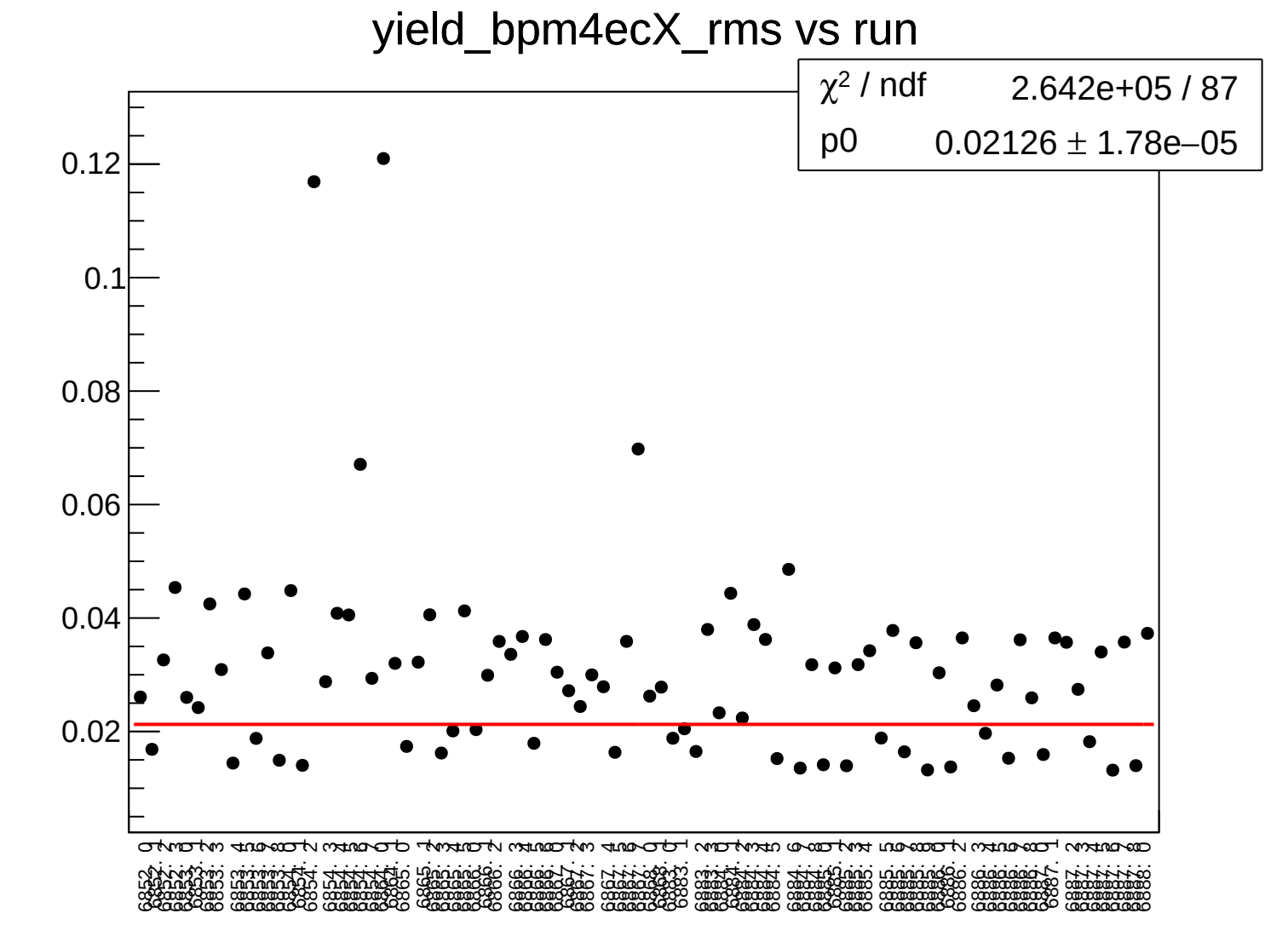

yield_bpm4acY_mean vs run
χ² / ndf 6.846e+05 / 87
p0 0.6744 ± 1.833e−05
0.72
0.7
0.68
0.66
0.64
0.62
0.6
pull
Entries 88
Mean 192
Std Dev 0
150
100
50
0
−50
−100
−150
−200

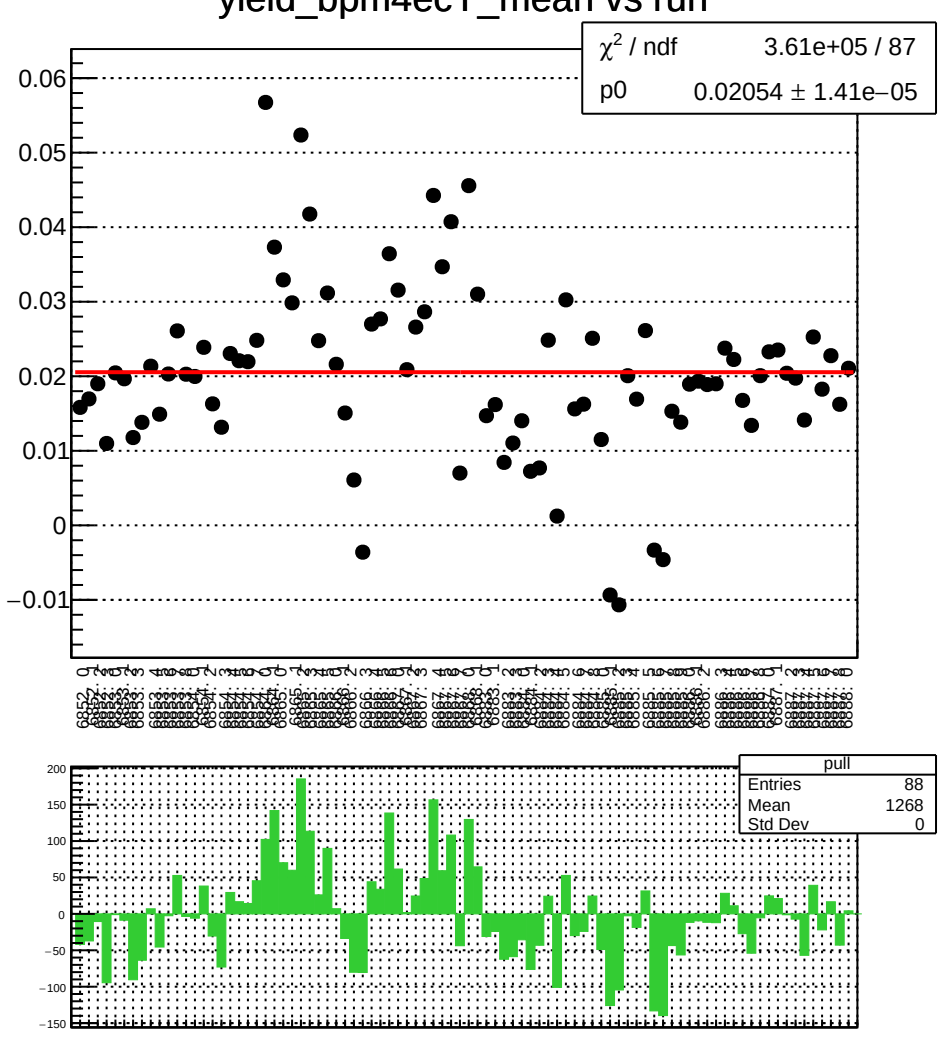

pull1D
Entries 88
Mean 0.4281
Std Dev 1.803
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

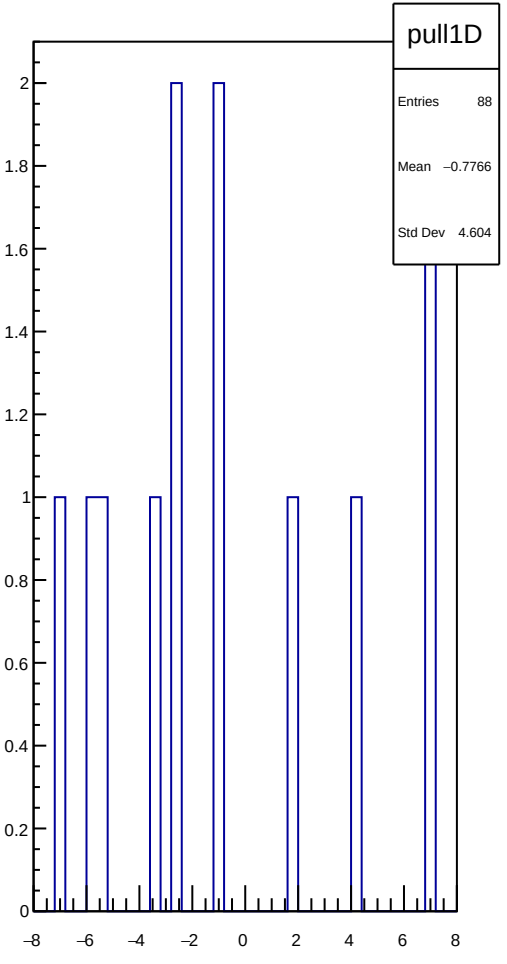

yield_bpm4acY_rms vs run
χ² / ndf 1.81e+05 / 87
p0 0.01593 ± 1.296e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

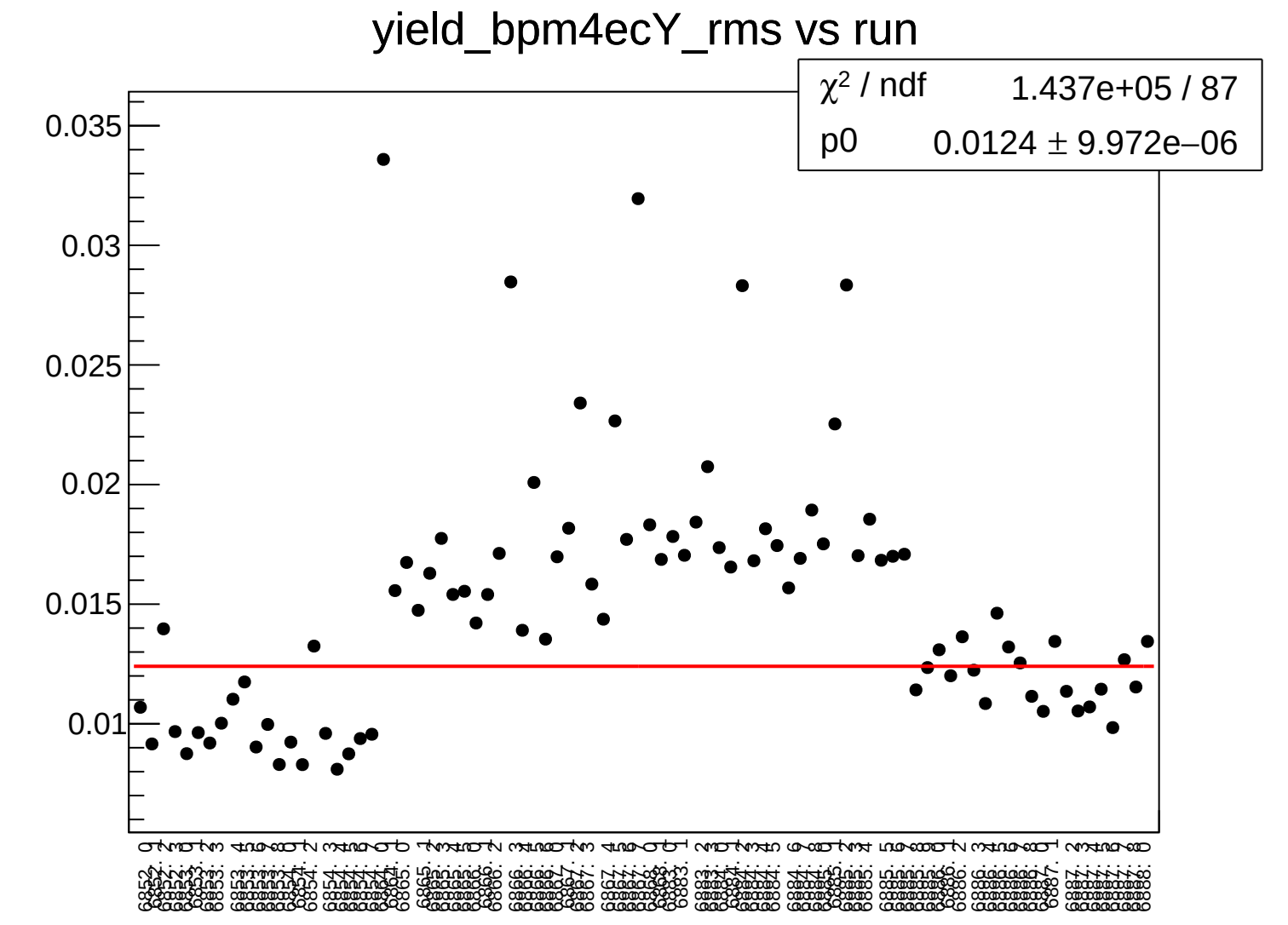

yield_bpm4ecX_mean vs run
χ² / ndf 4.3e+05 / 87
p0 −0.2897 ± 2.517e−05
pull
Entries 88
Mean 36.72
Std Dev 17.82

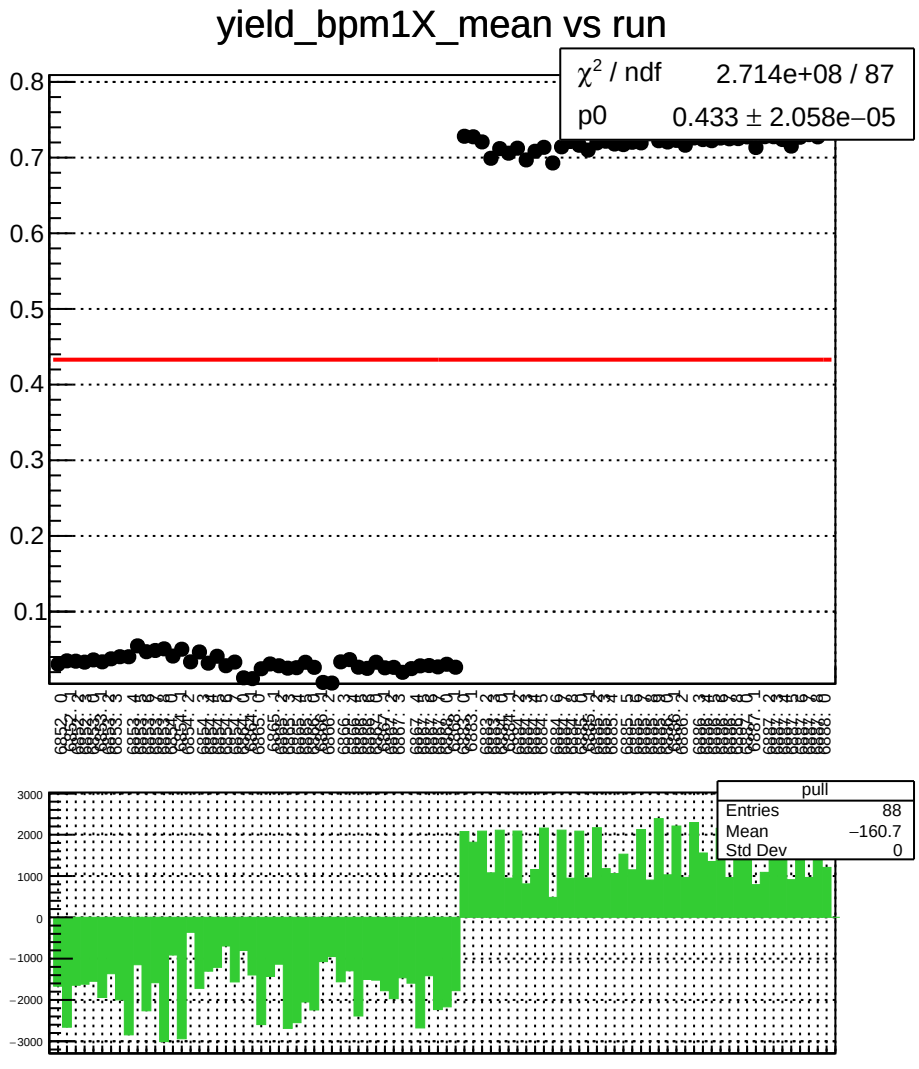

pull1D
Entries 88
Mean −1.247
Std Dev 4.937

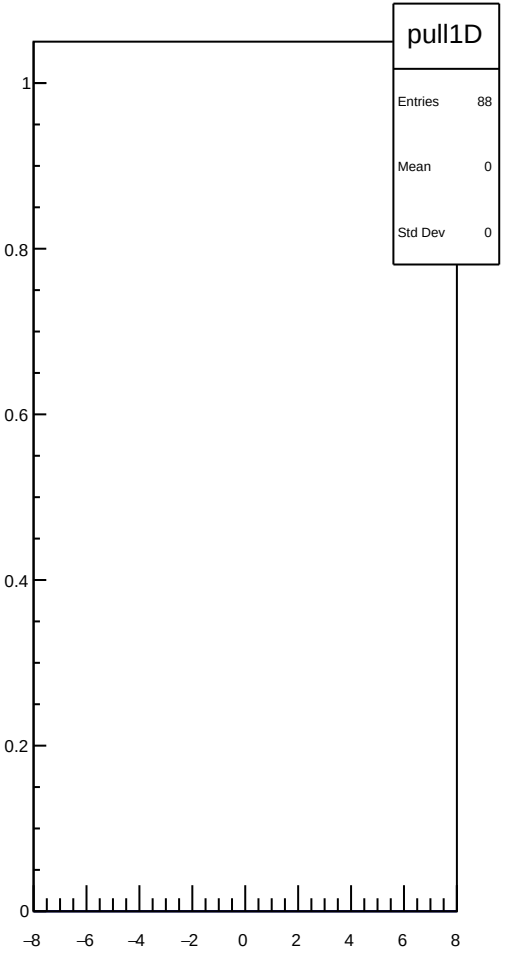

yield_bpm4ecX_rms vs run
χ² / ndf 2.642e+05 / 87
p0 0.02126 ± 1.78e−05
0.12
0.1
0.08
0.06
0.04
0.02

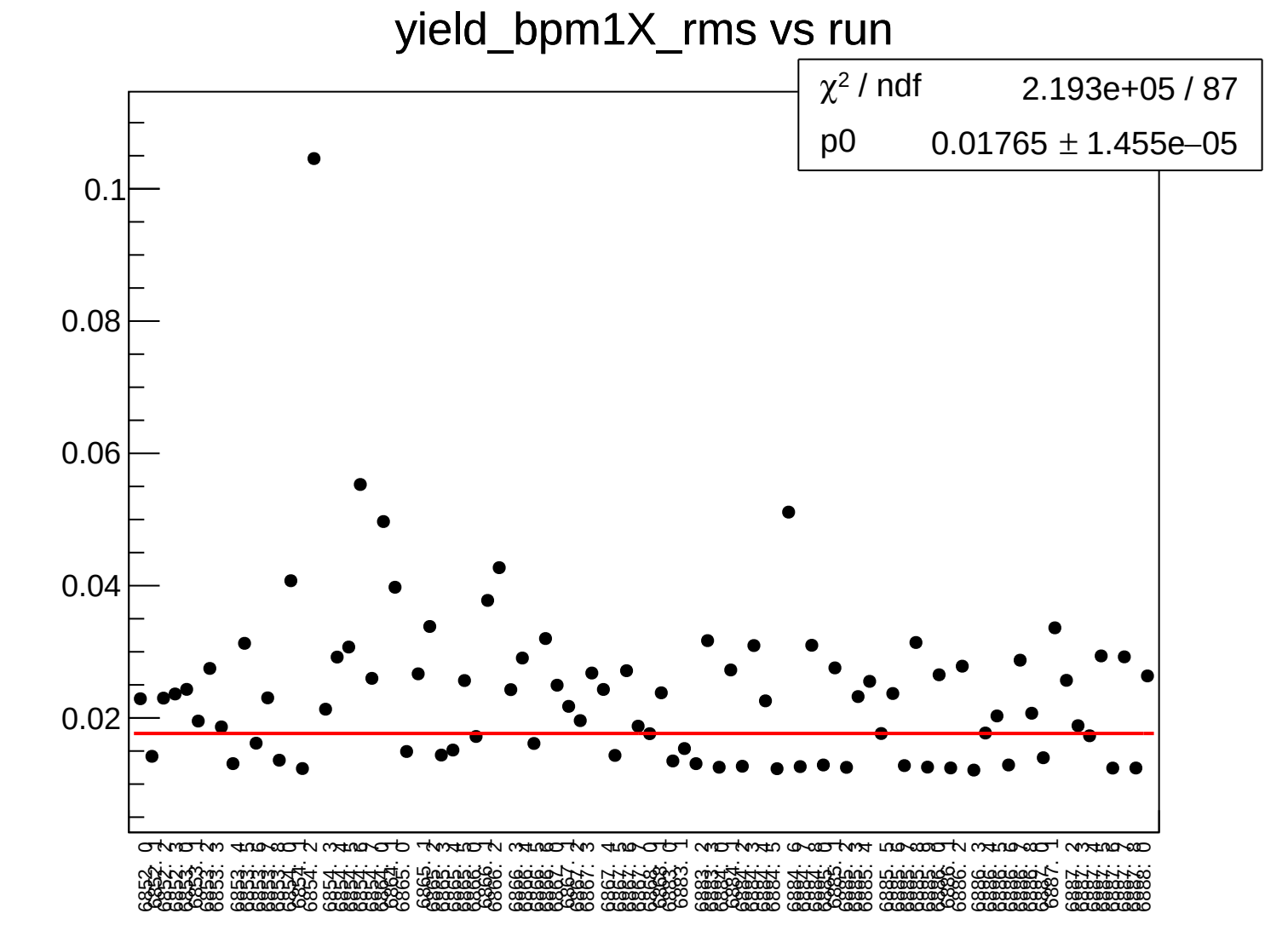

yield_bpm4ecY_mean vs run
χ² / ndf 3.61e+05 / 87
p0 0.02054 ± 1.41e−05
0.06
0.05
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 88
Mean 1268
Std Dev 0
200
150
100
50
0
−50
−100
−150

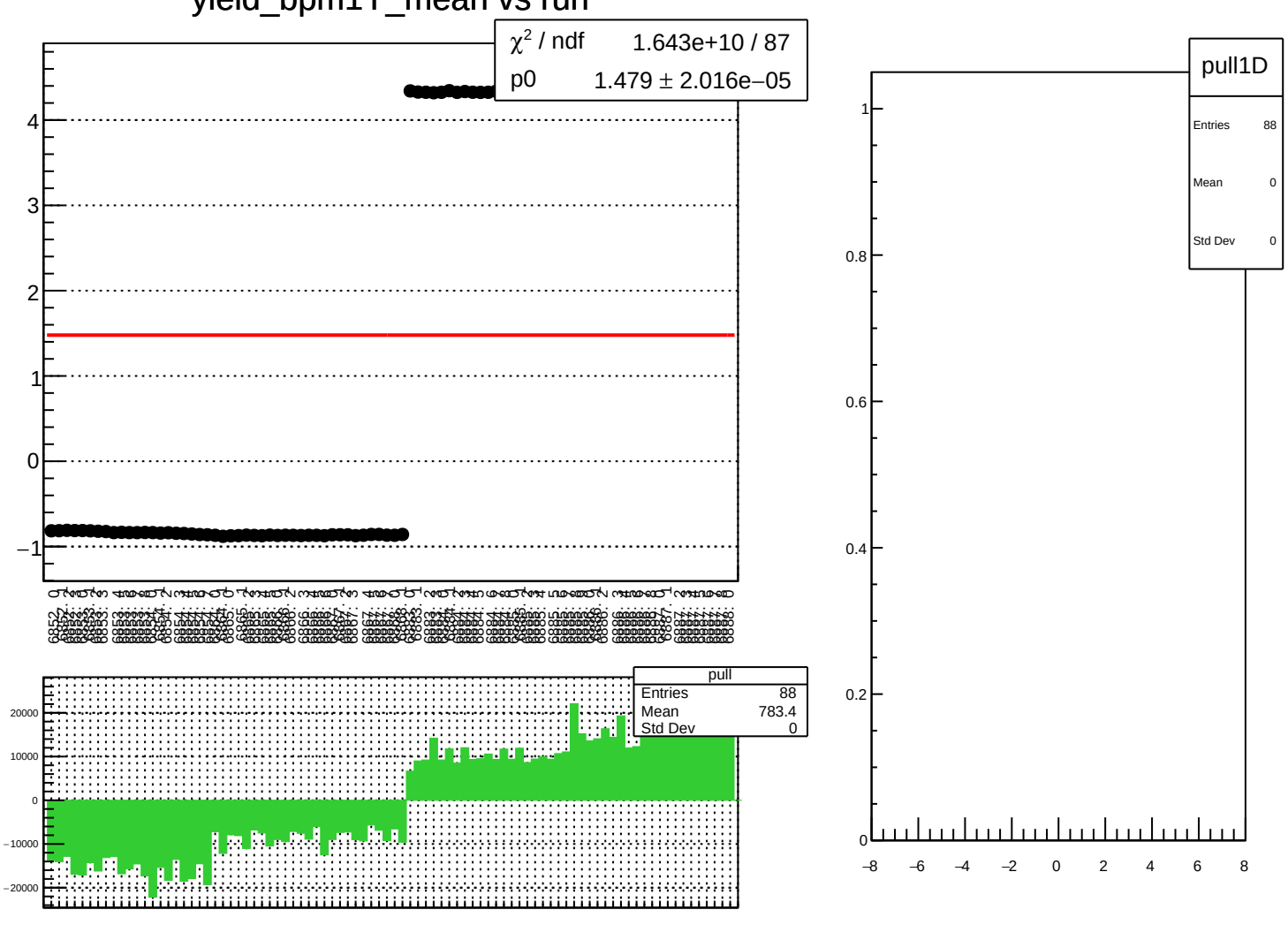

pull1D
Entries 88
Mean −0.7766
Std Dev 4.604
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

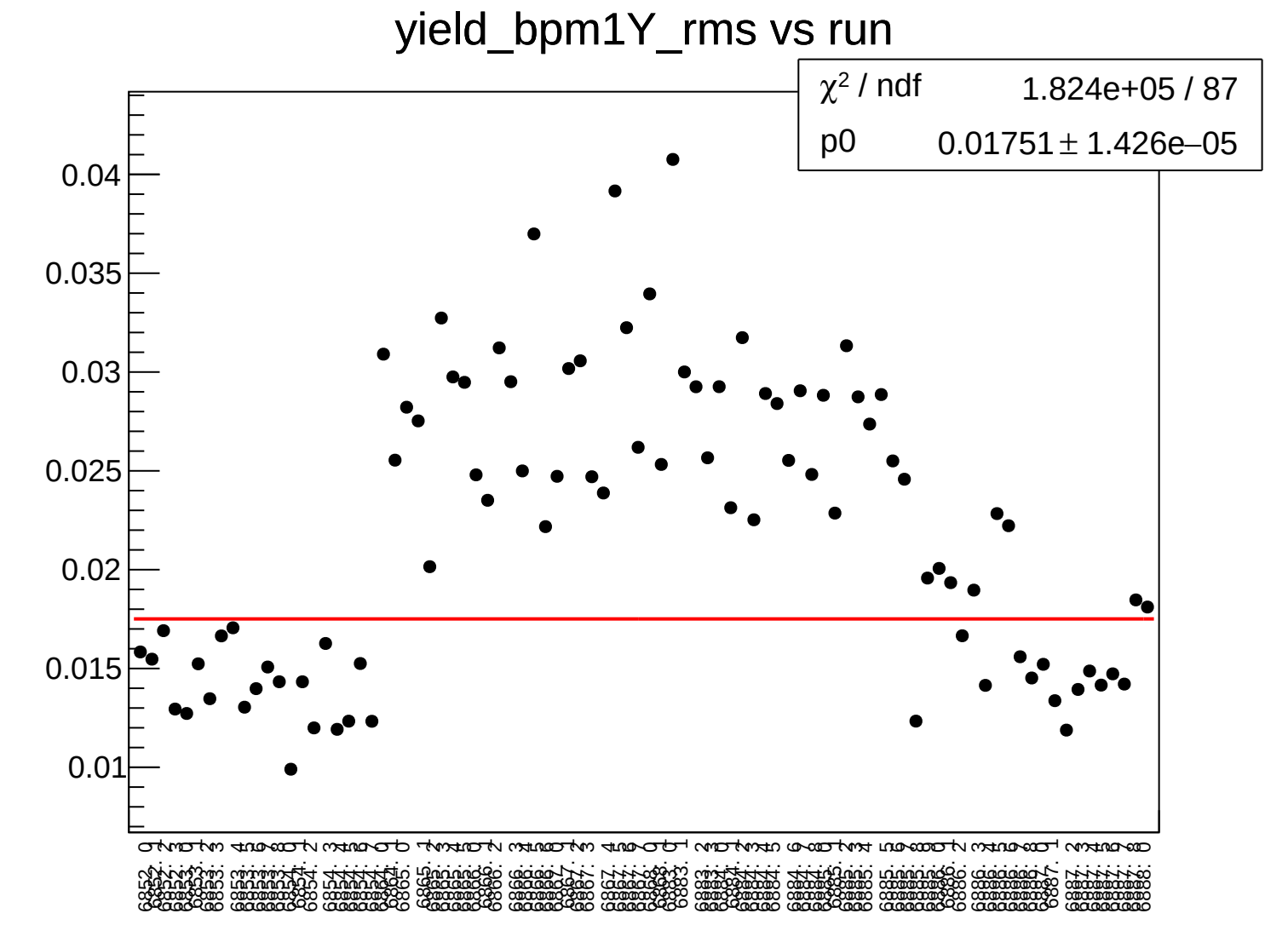

yield_bpm4ecY_rms vs run
χ² / ndf 1.437e+05 / 87
p0 0.0124 ± 9.972e−06
0.035
0.03
0.025
0.02
0.015
0.01

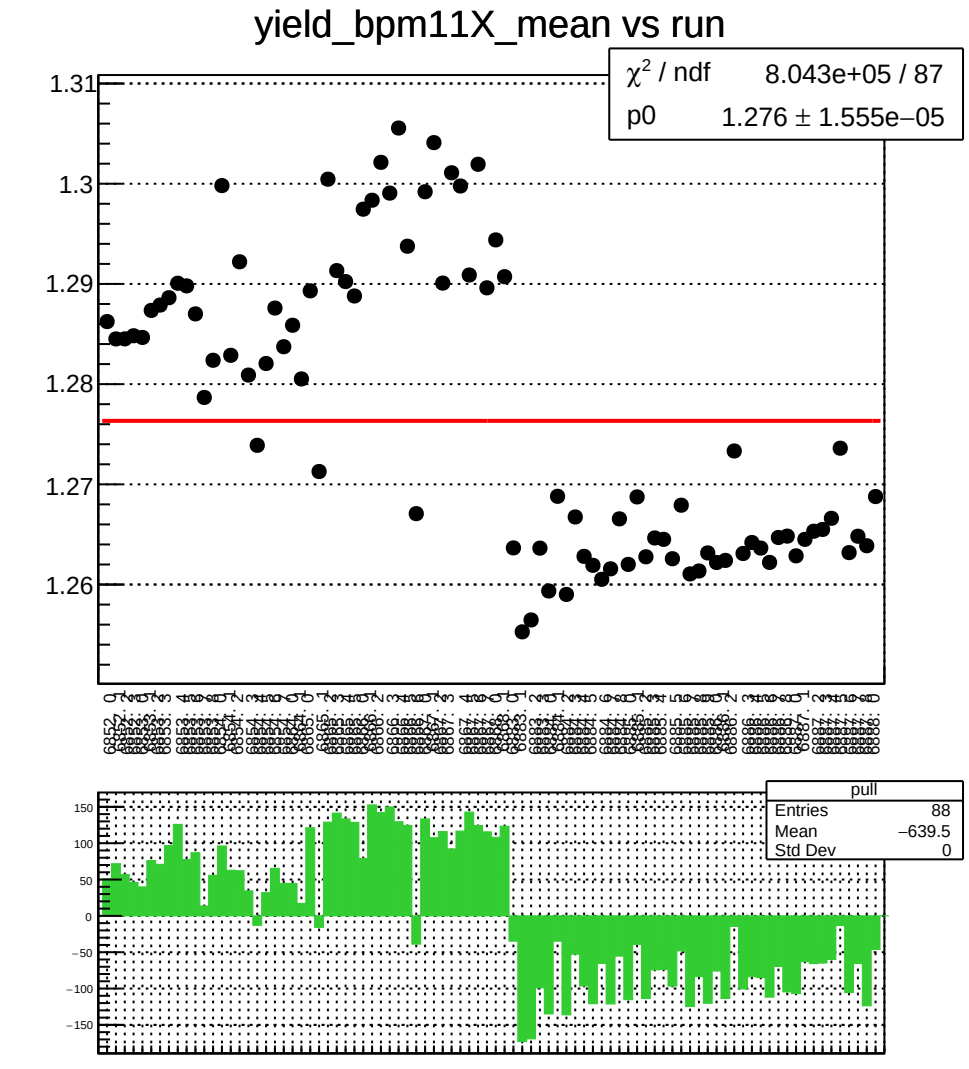

yield_bpm1X_mean vs run
χ² / ndf 2.714e+08 / 87
p0 0.433 ± 2.058e−05
pull
Entries 88
Mean −160.7
Std Dev 0

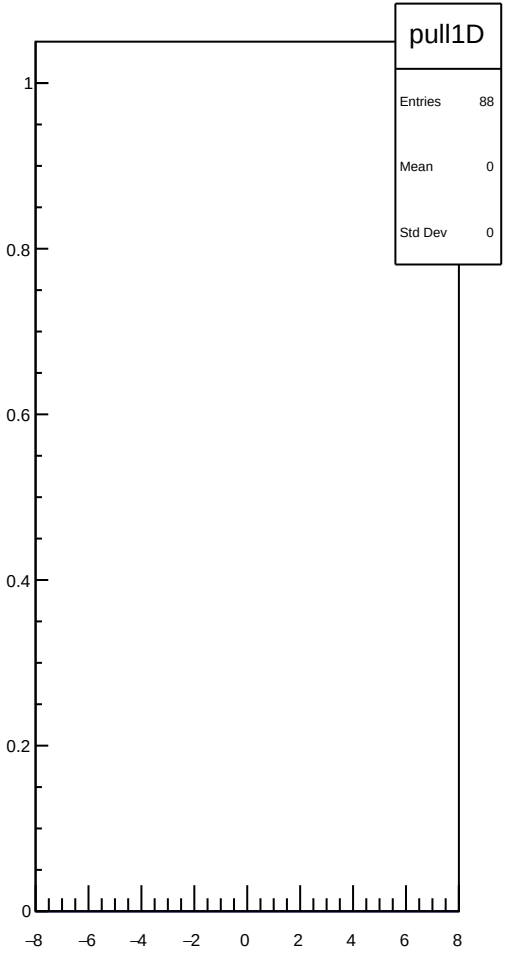

pull1D
Entries 88
Mean 0
Std Dev 0

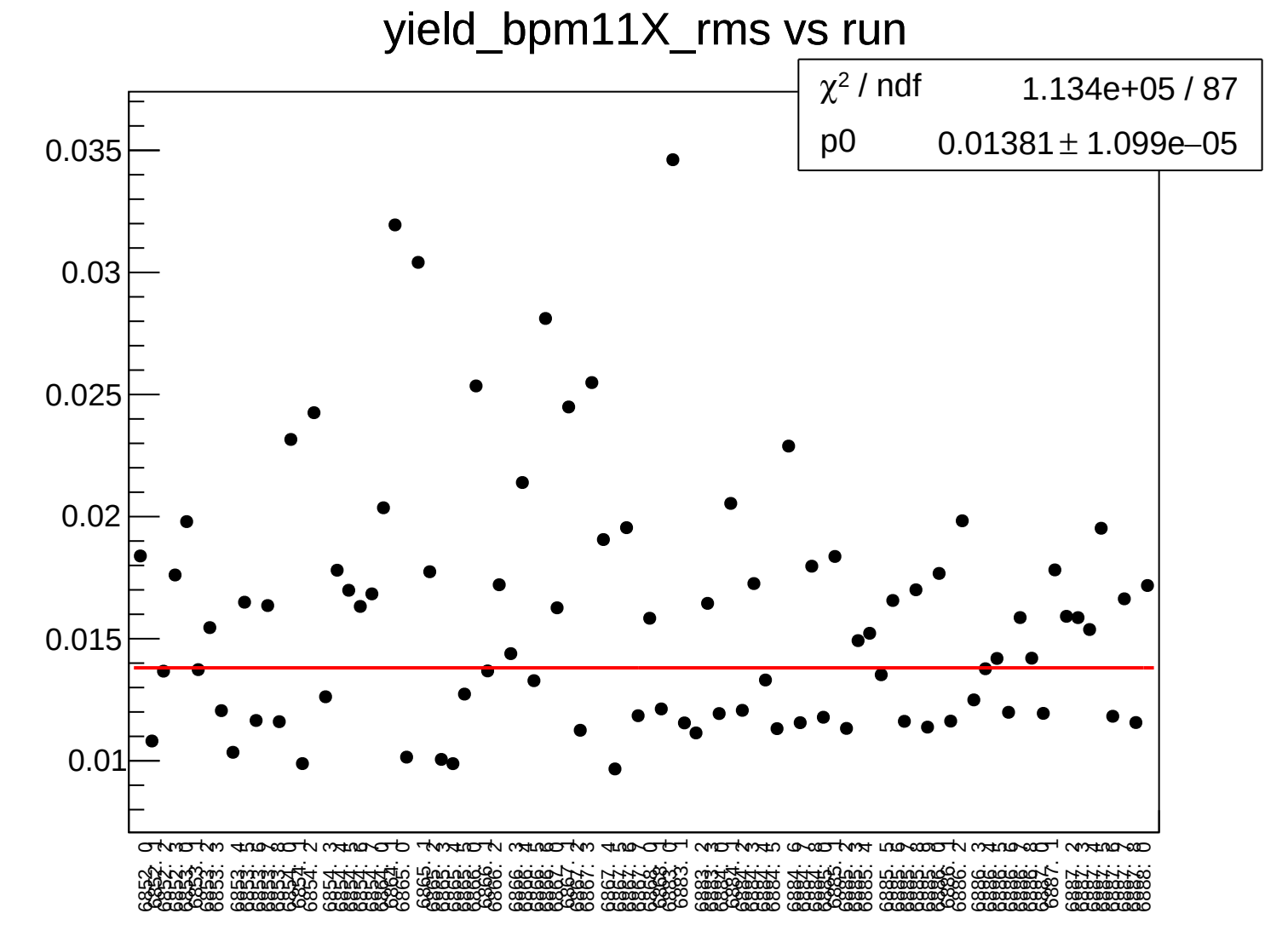

yield_bpm1X_rms vs run
χ² / ndf 2.193e+05 / 87
p0 0.01765 ± 1.455e−05
0.1
0.08
0.06
0.04
0.02

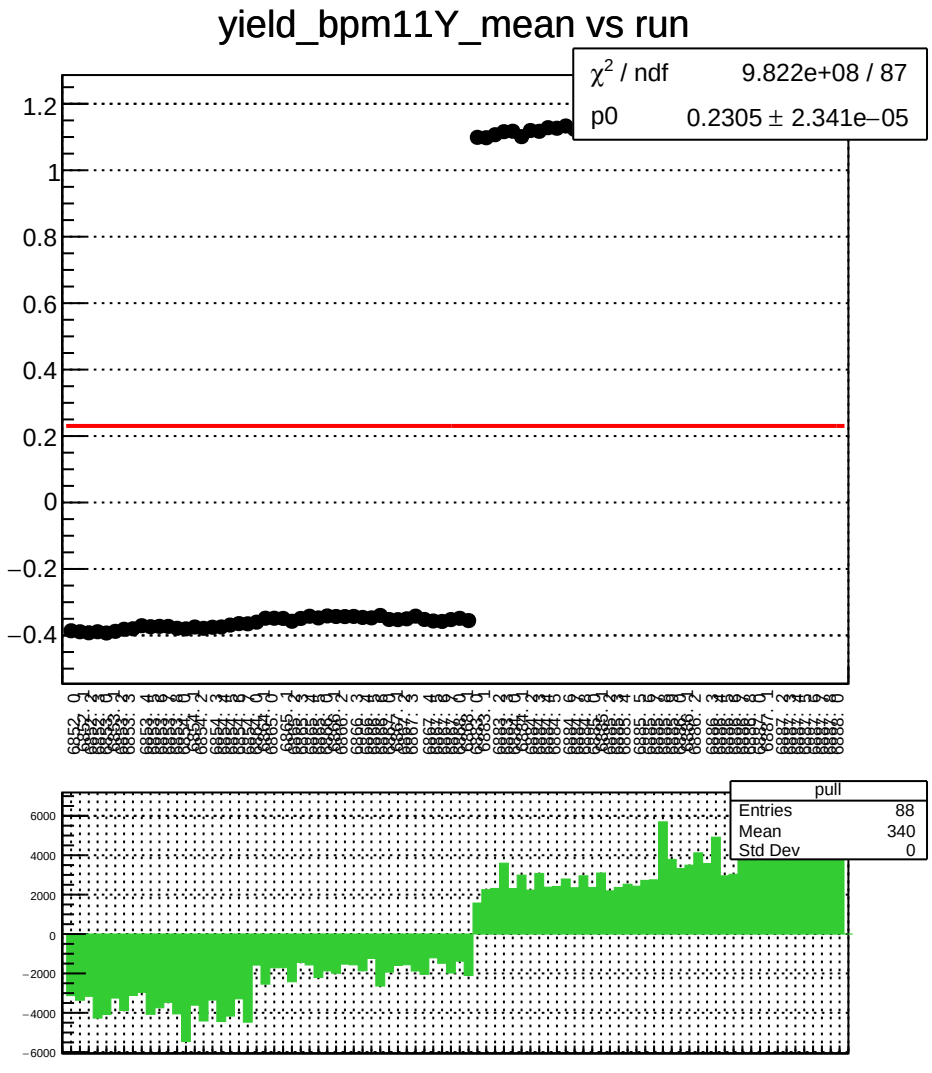

yield_bpm1Y_mean vs run
χ² / ndf 1.643e+10 / 87
p0 1.479 ± 2.016e−05
pull
Entries 88
Mean 783.4
Std Dev 0
pull1D
Entries 88
Mean 0
Std Dev 0

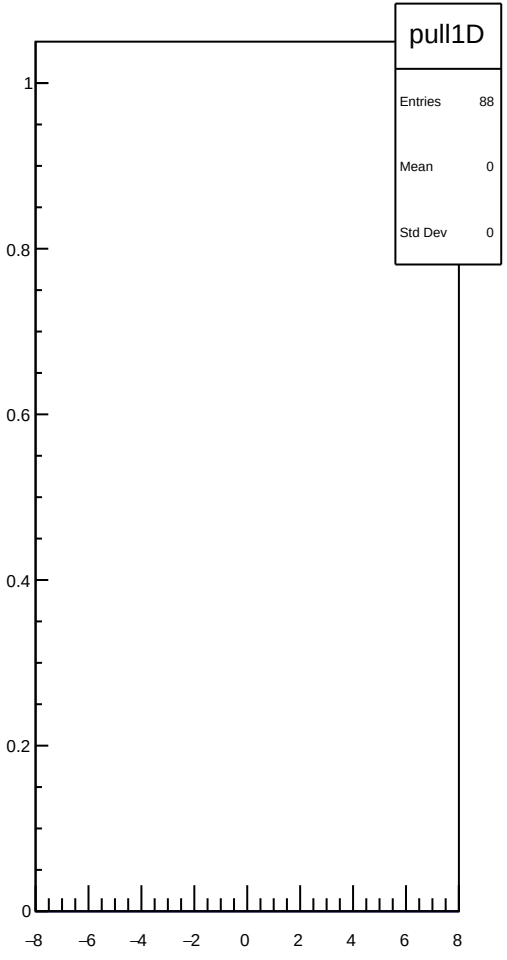

yield_bpm1Y_rms vs run
χ² / ndf 1.824e+05 / 87
p0 0.01751 ± 1.426e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

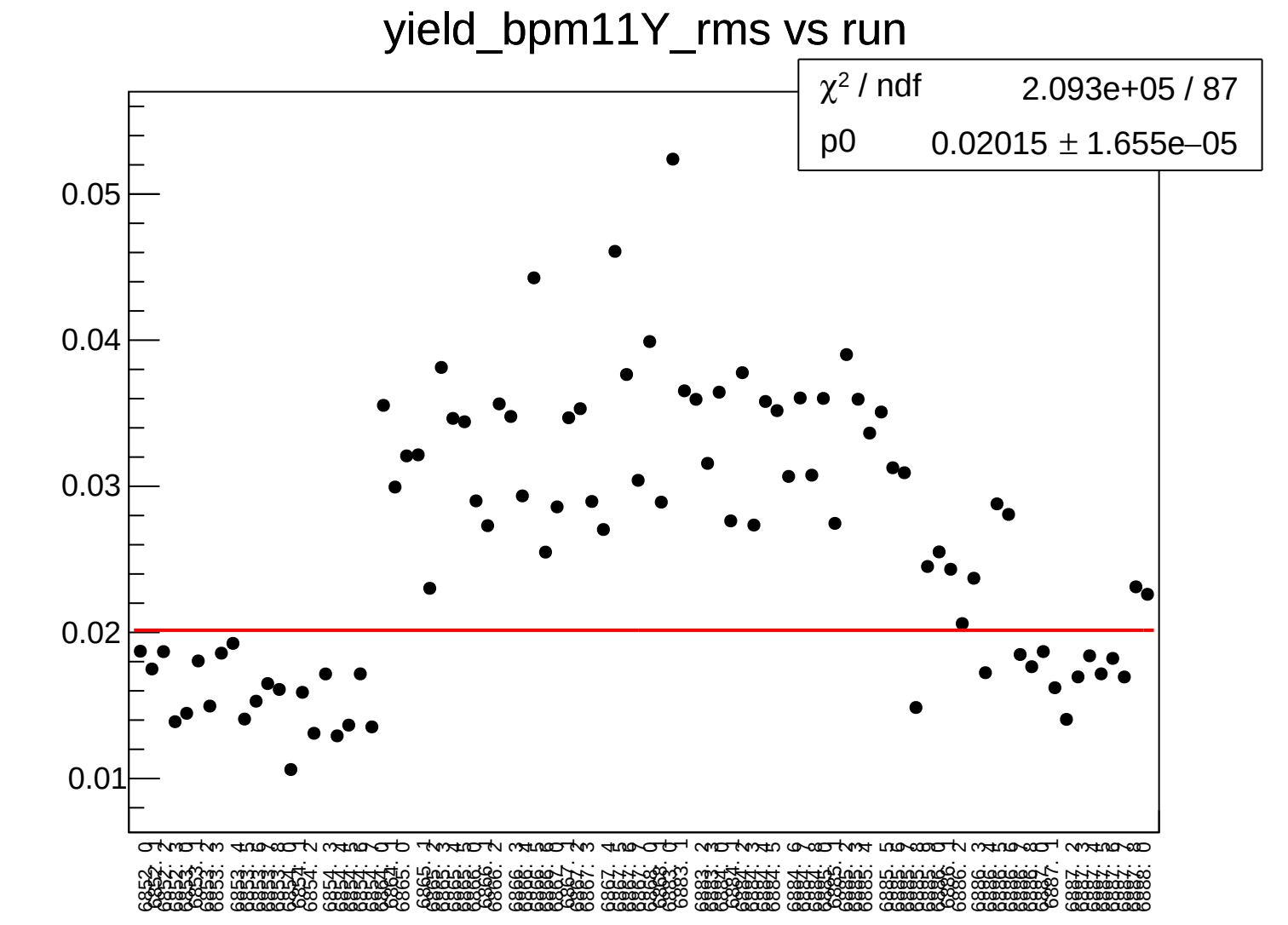

yield_bpm11X_mean vs run
χ² / ndf 8.043e+05 / 87
p0 1.276 ± 1.555e−05
1.31
1.3
1.29
1.28
1.27
1.26
pull
Entries 88
Mean −639.5
Std Dev 0
150
100
50
0
−50
−100
−150

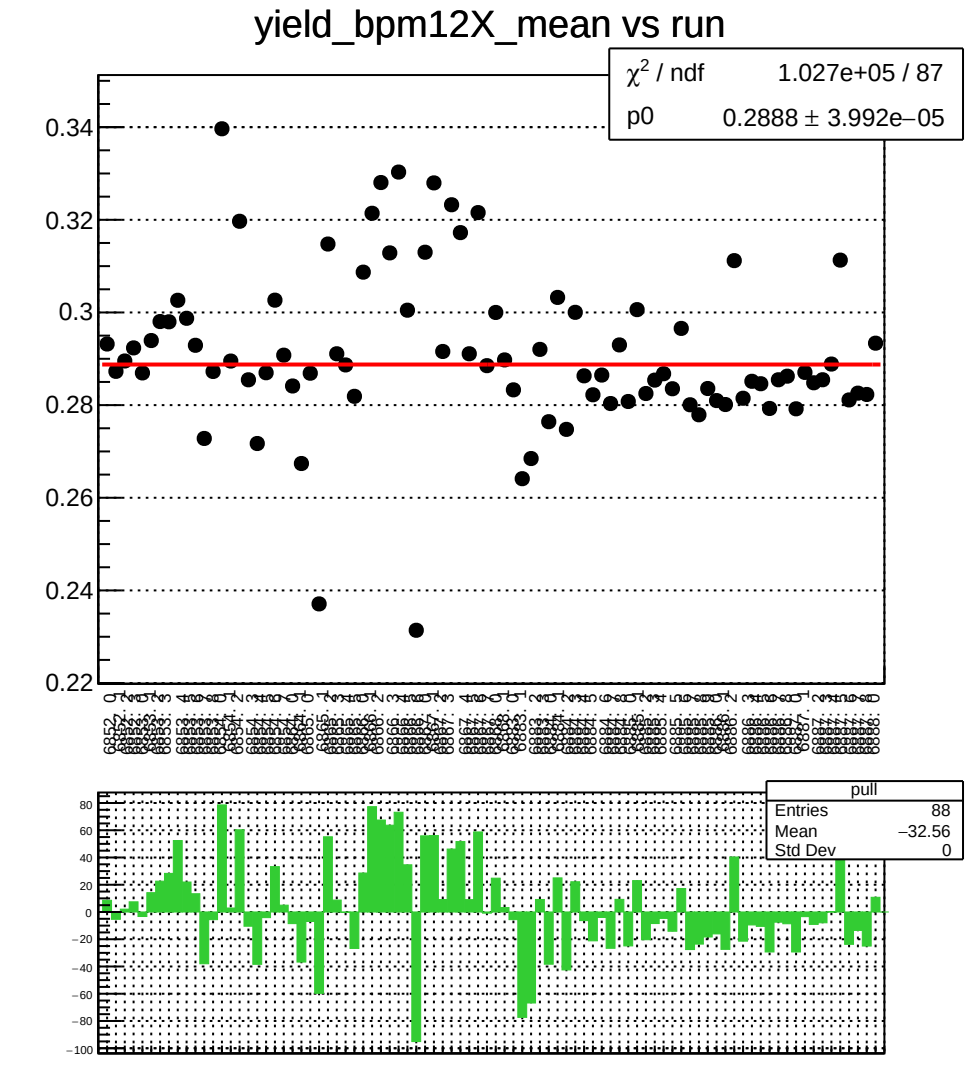

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

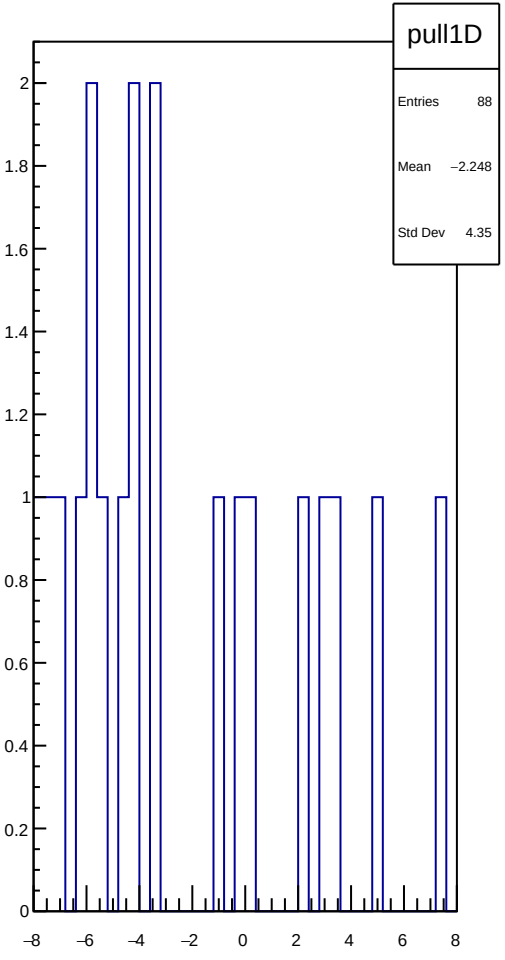

yield_bpm11X_rms vs run
χ² / ndf 1.134e+05 / 87
p0 0.01381 ± 1.099e–05
0.035
0.03
0.025
0.02
0.015
0.01

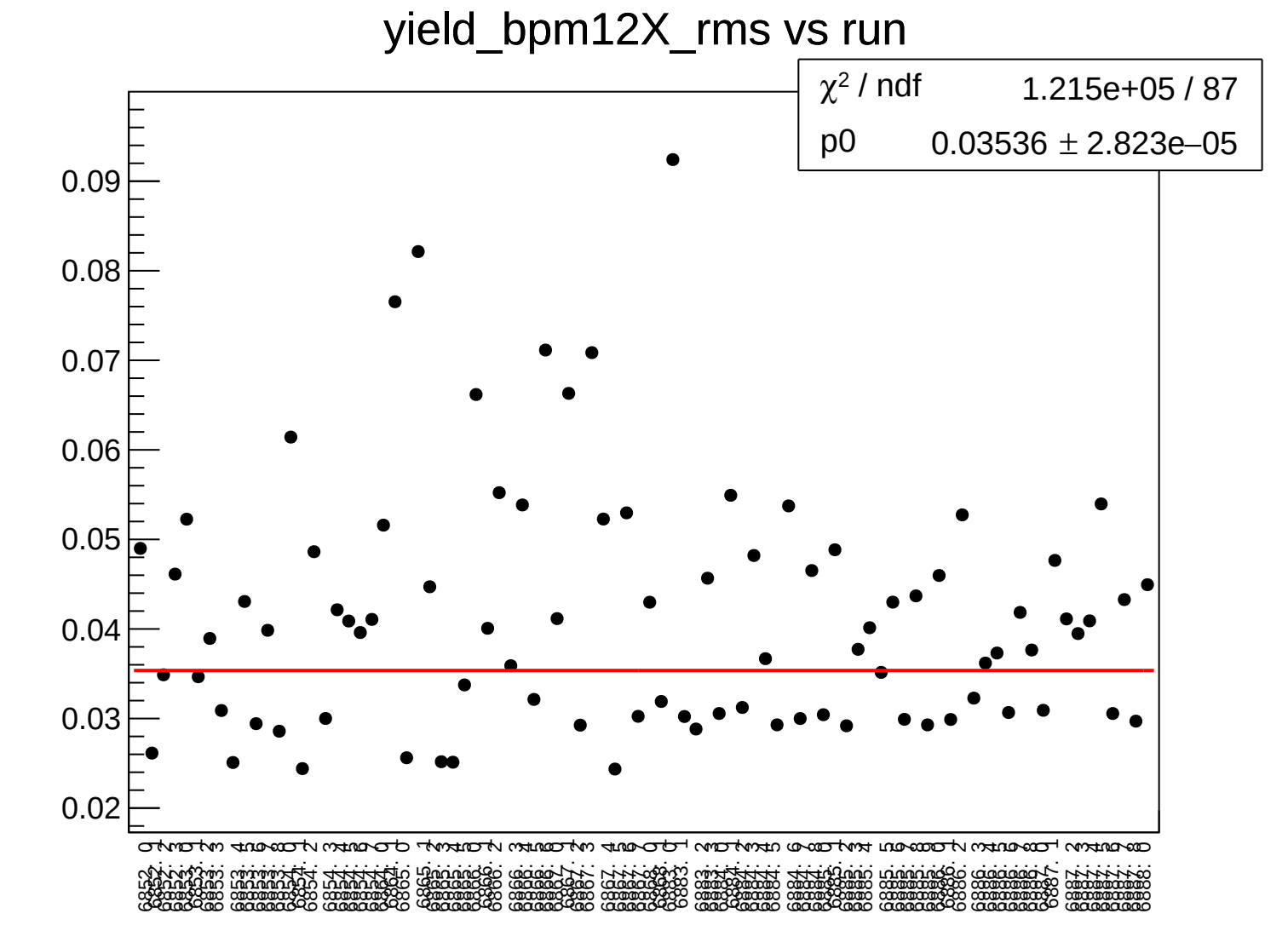

yield_bpm11Y_mean vs run
χ² / ndf 9.822e+08 / 87
p0 0.2305 ± 2.341e−05
pull
Entries 88
Mean 340
Std Dev 0

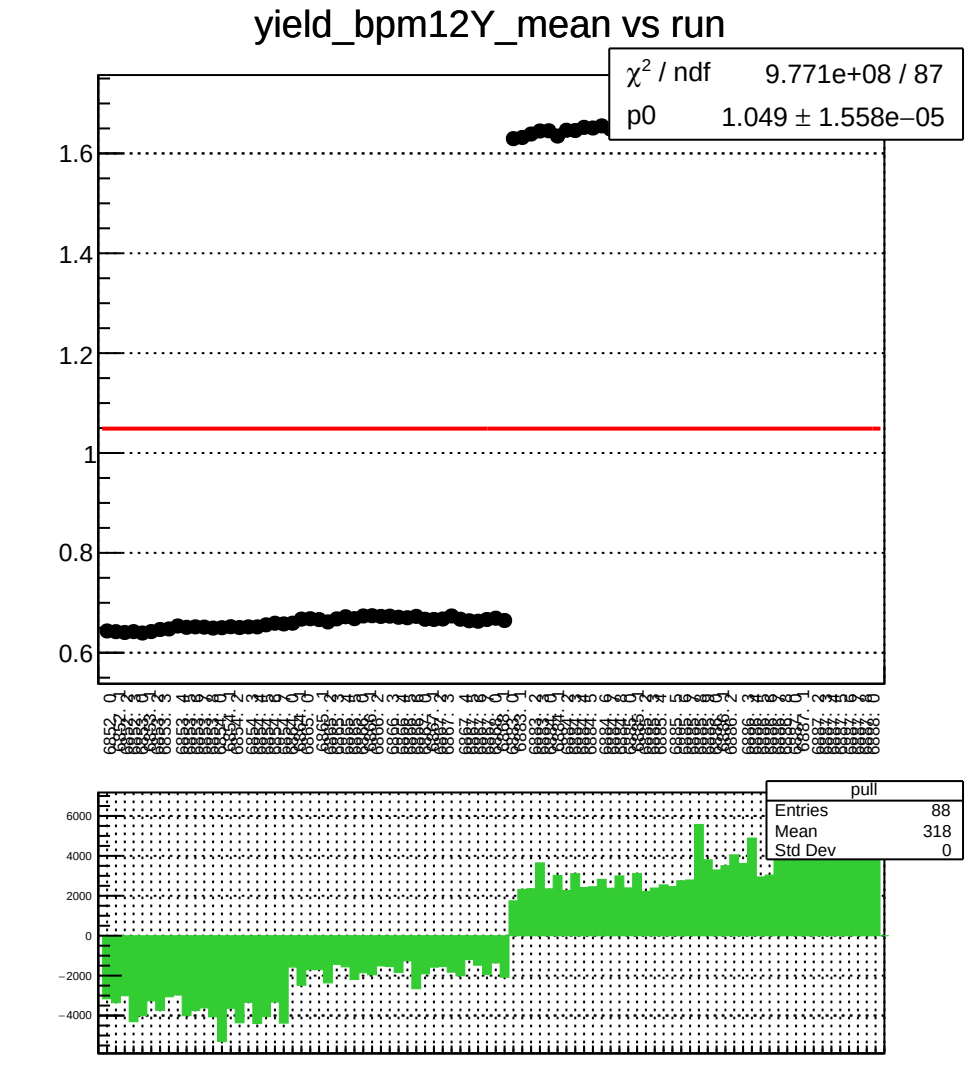

pull1D
Entries 88
Mean 0
Std Dev 0

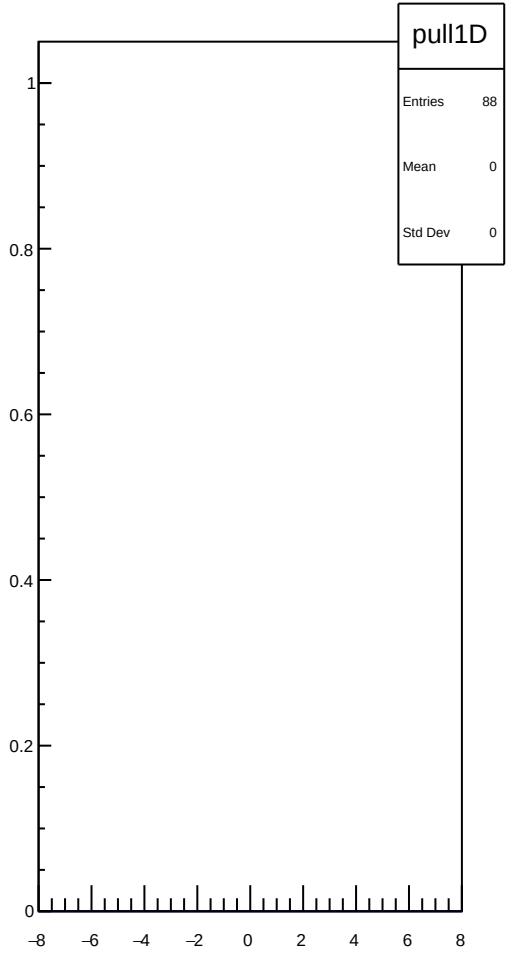

yield_bpm11Y_rms vs run
χ² / ndf 2.093e+05 / 87
p0 0.02015 ± 1.655e−05
0.05
0.04
0.03
0.02
0.01

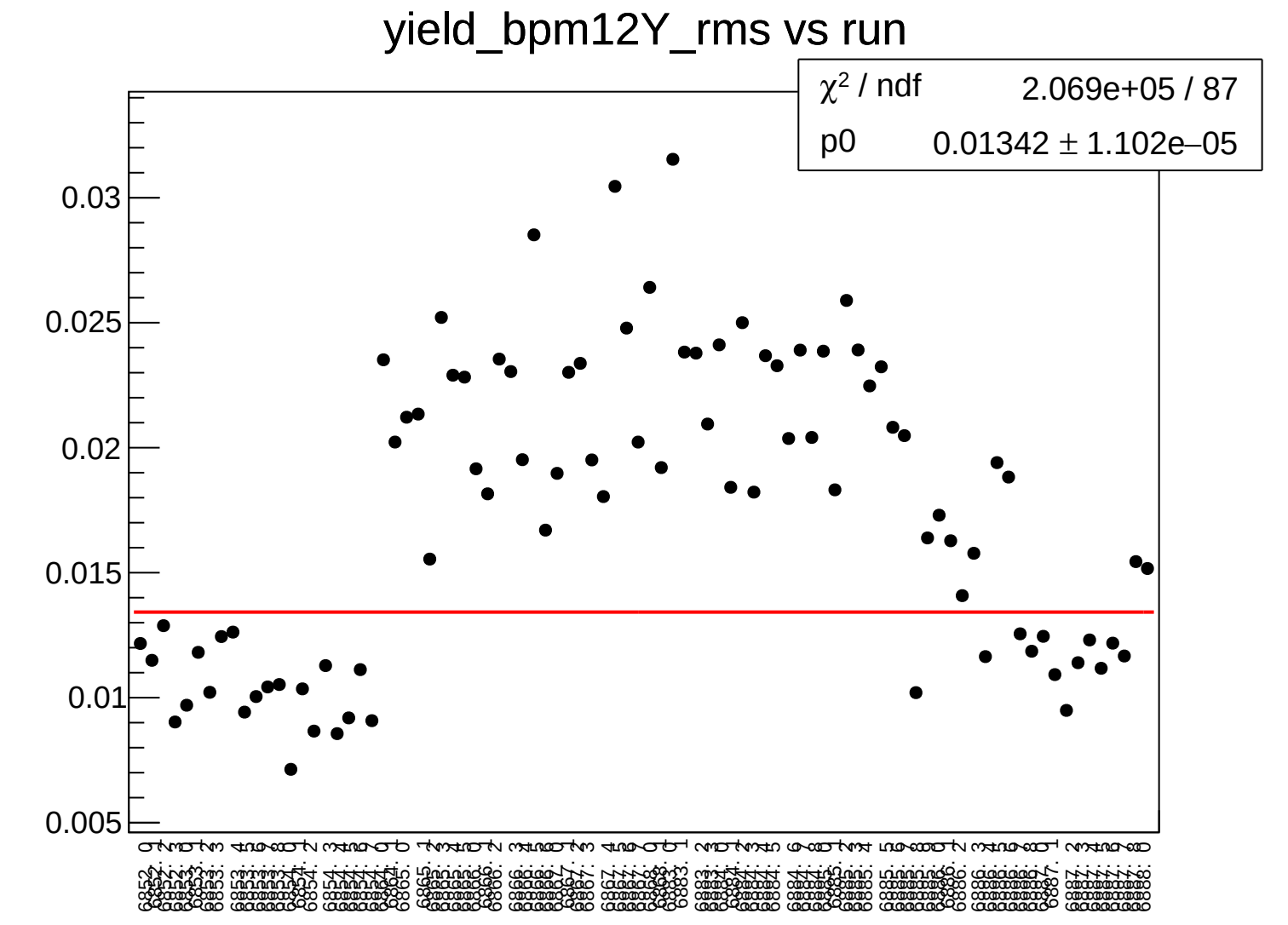

yield_bpm12X_mean vs run
χ² / ndf 1.027e+05 / 87
p0 0.2888 ± 3.992e−05
0.34
0.32
0.3
0.28
0.26
0.24
0.22
pull
Entries 88
Mean −32.56
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

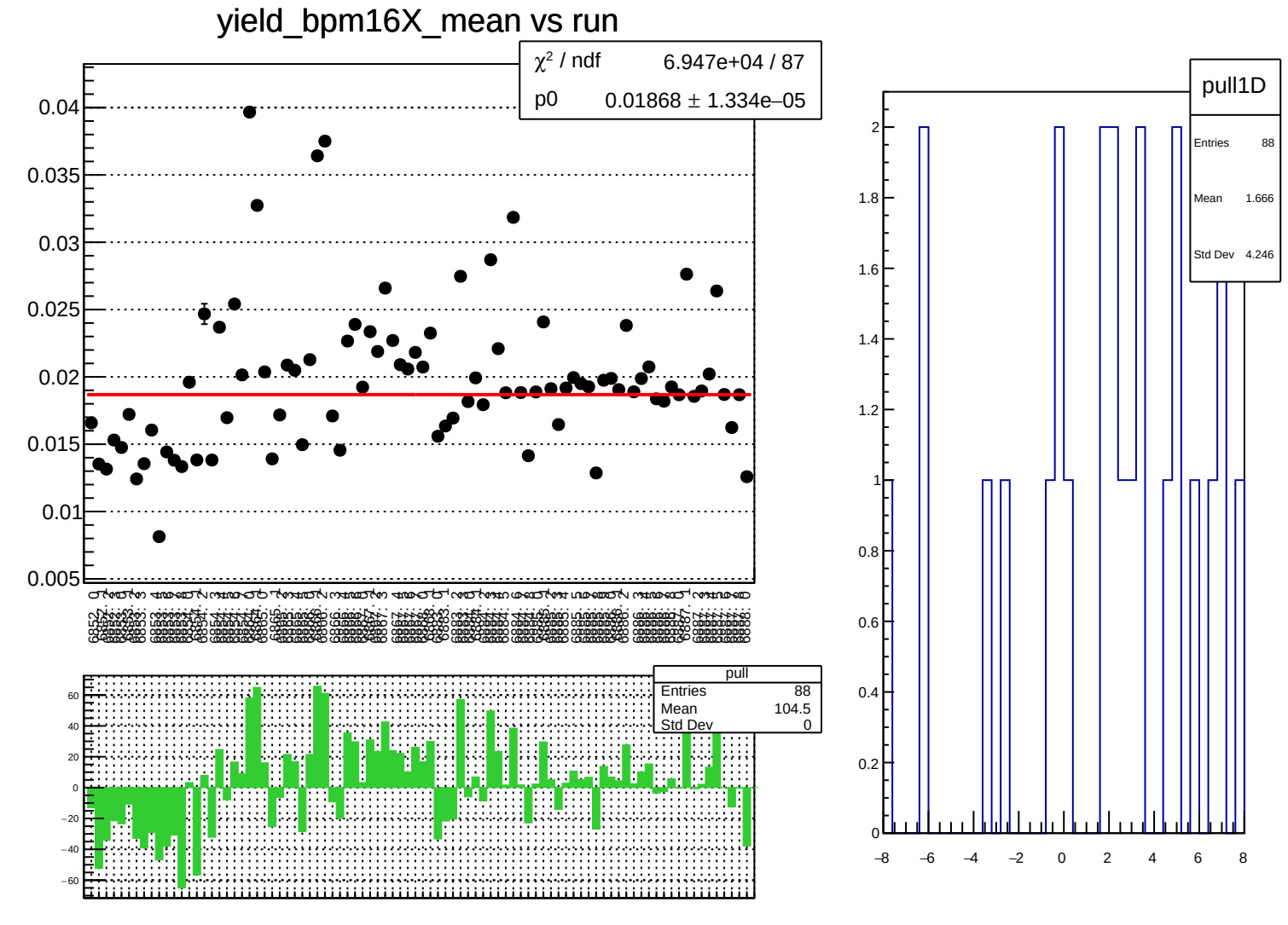

pull1D
Entries 88
Mean −2.248
Std Dev 4.35
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

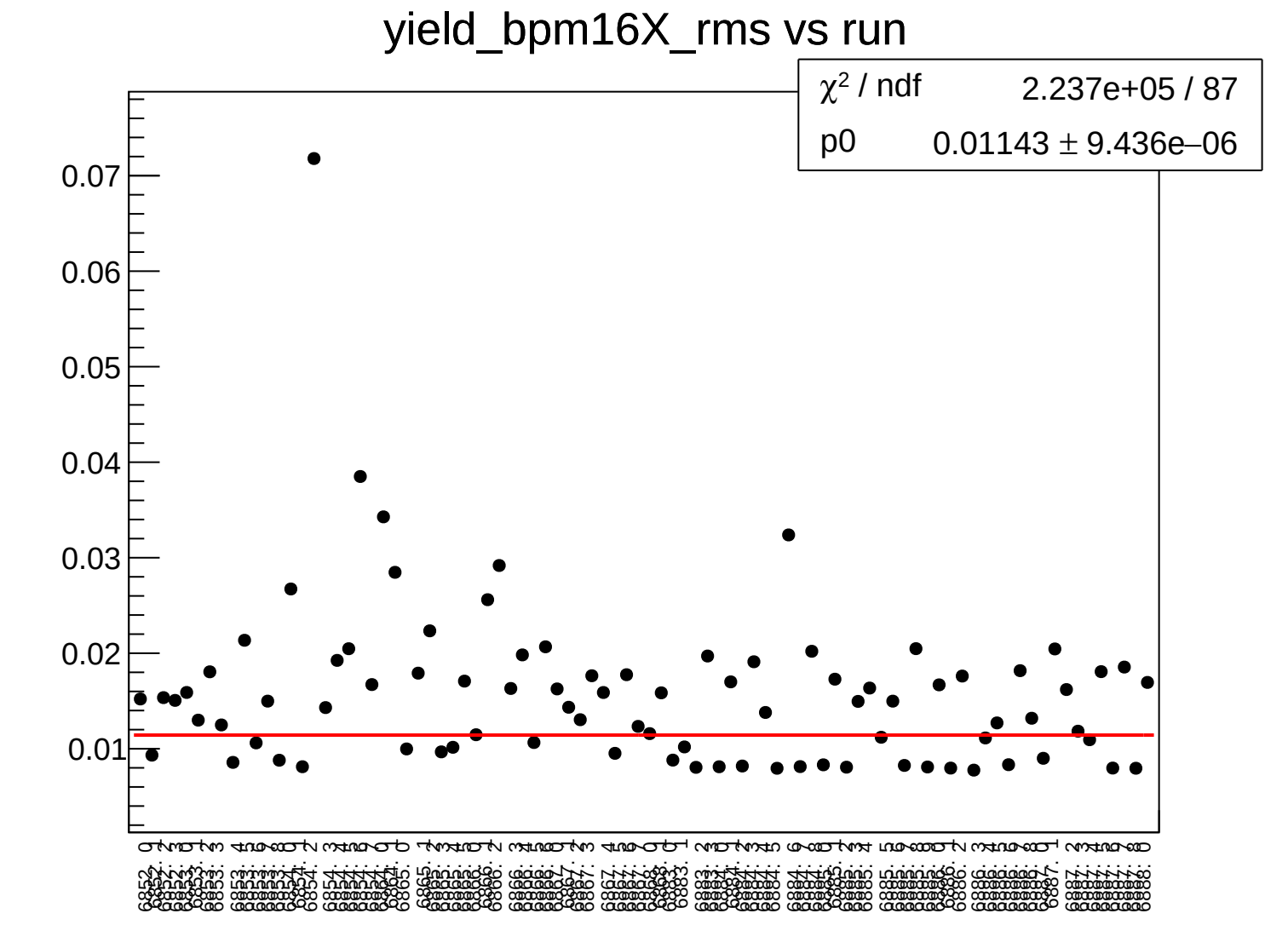

yield_bpm12X_rms vs run
χ² / ndf 1.215e+05 / 87
p0 0.03536 ± 2.823e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

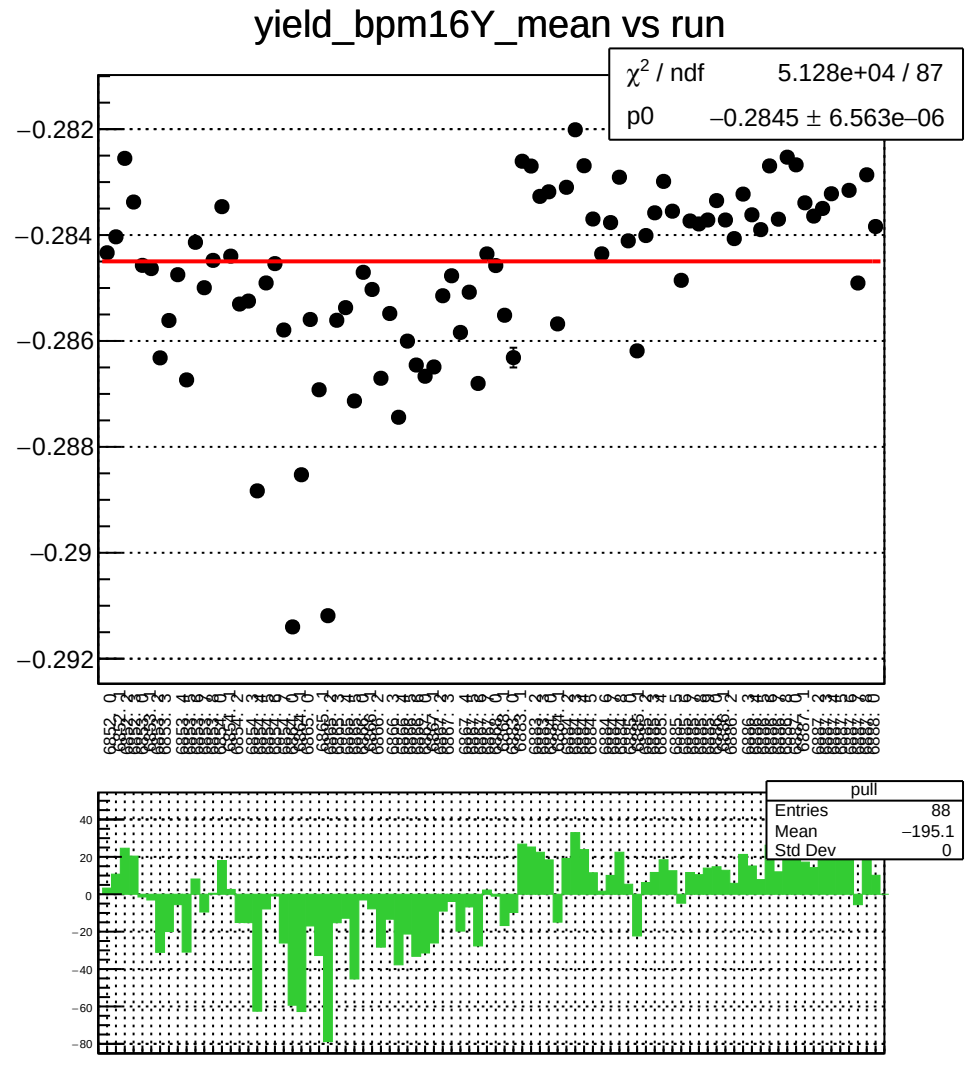

yield_bpm12Y_mean vs run
χ² / ndf 9.771e+08 / 87
p0 1.049 ± 1.558e−05
1.6
1.4
1.2
1
0.8
0.6
pull
Entries 88
Mean 318
Std Dev 0
6000
4000
2000
0
−2000
−4000

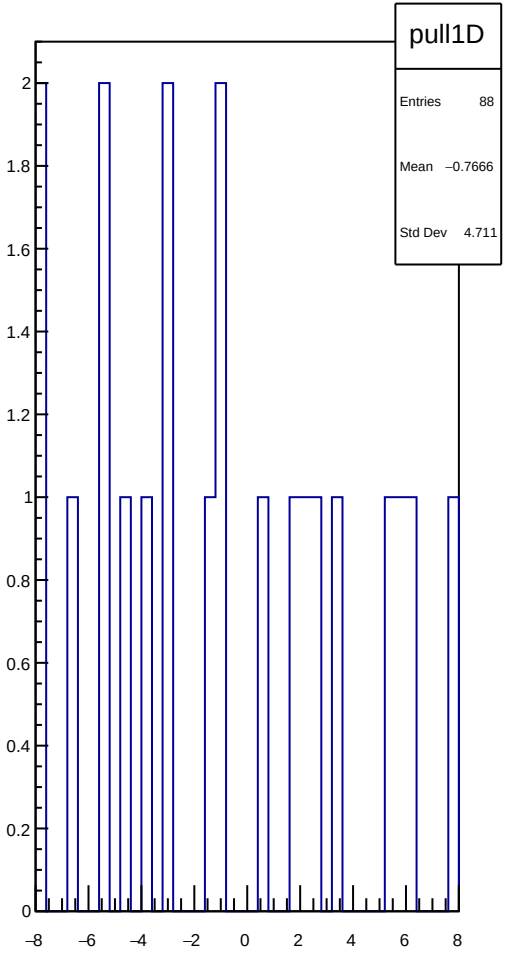

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

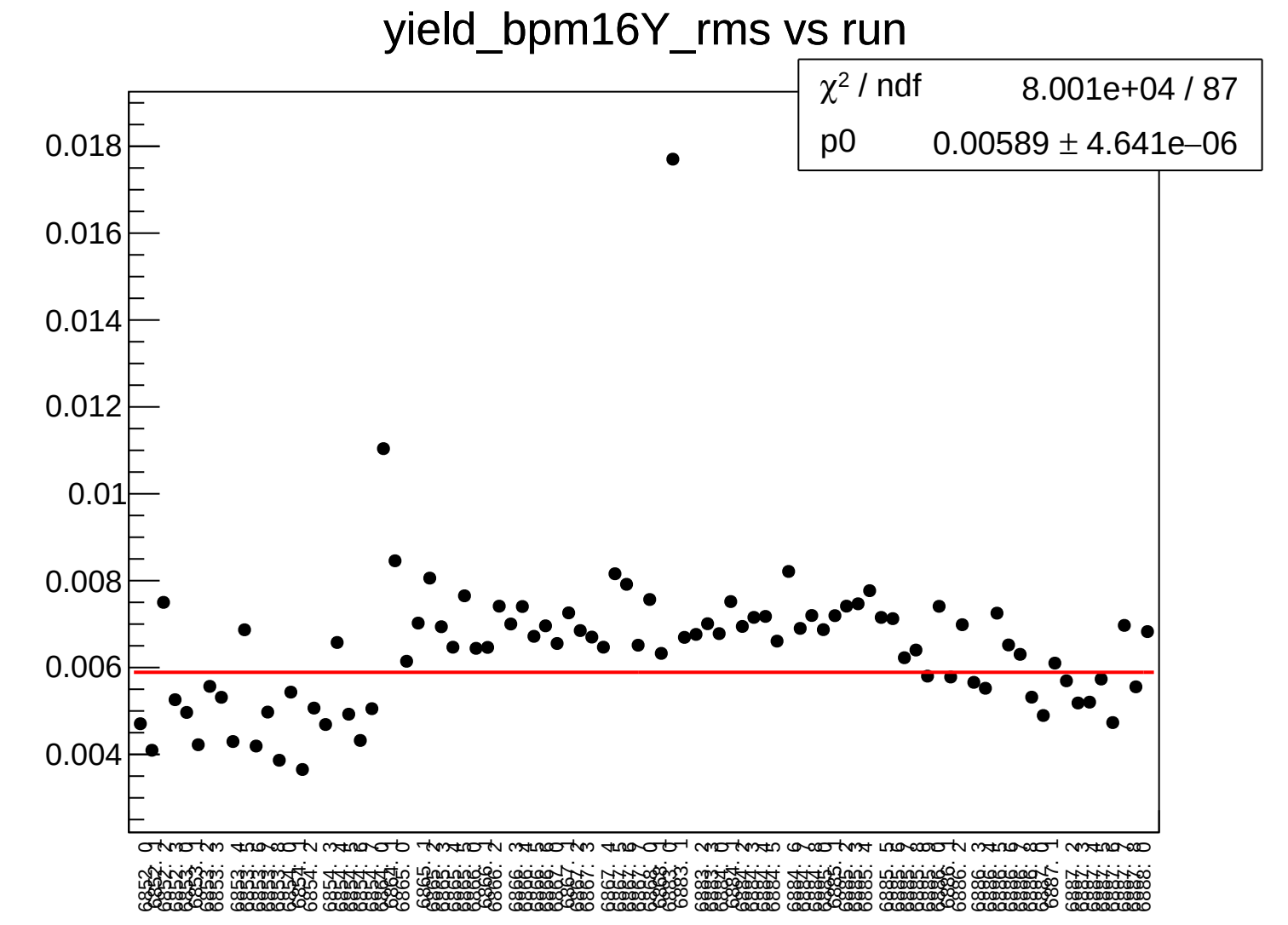

yield_bpm12Y_rms vs run
χ² / ndf 2.069e+05 / 87
p0 0.01342 ± 1.102e−05
0.03
0.025
0.02
0.015
0.01
0.005

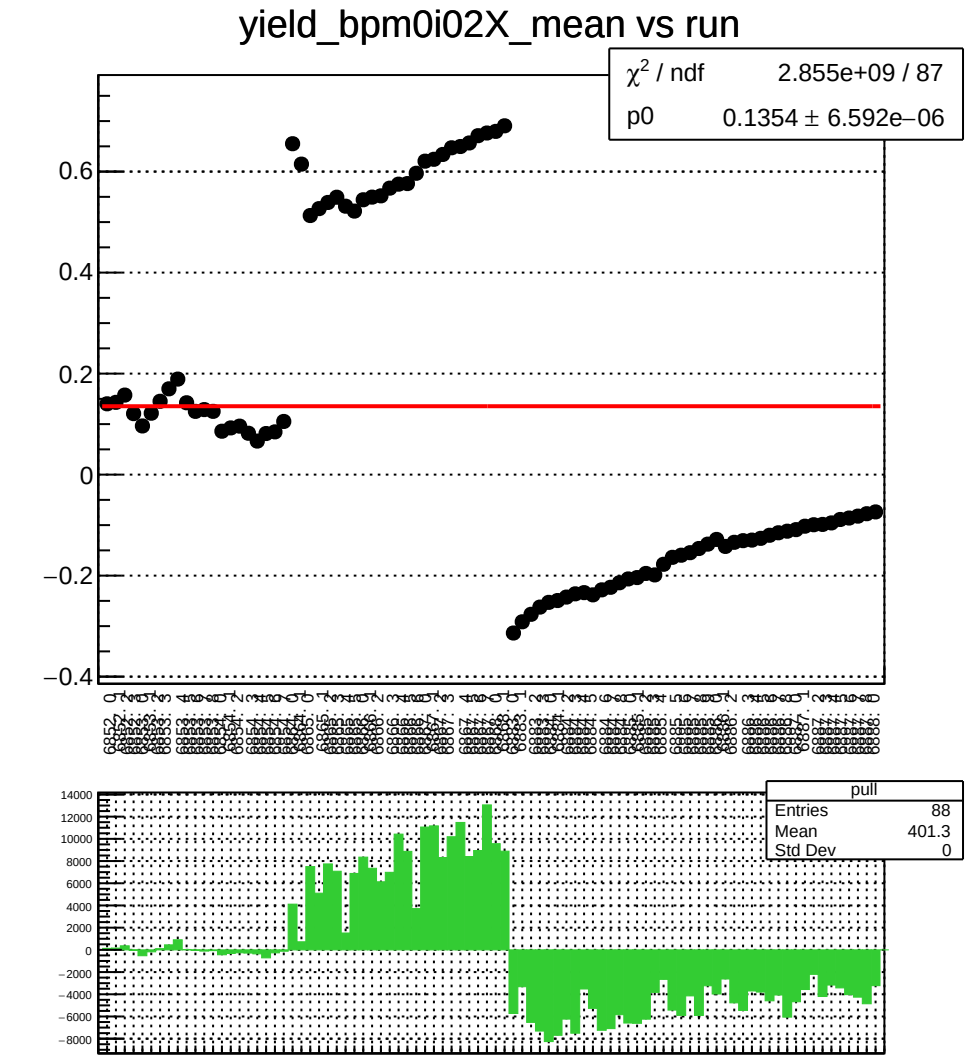

yield_bpm16X_mean vs run
χ² / ndf 6.947e+04 / 87
p0 0.01868 ± 1.334e−05
pull
Entries 88
Mean 104.5
Std Dev 0
pull1D
Entries 88
Mean 1.666
Std Dev 4.246

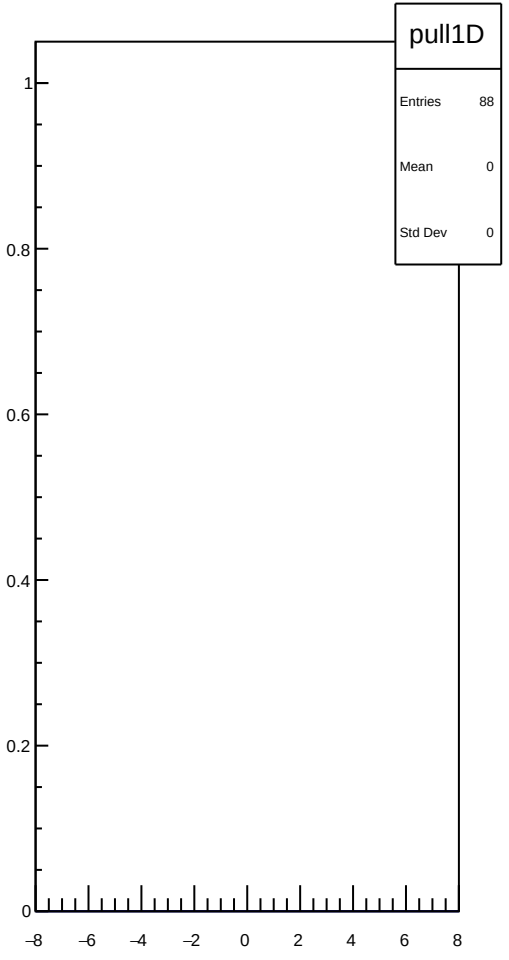

yield_bpm16X_rms vs run
χ² / ndf 2.237e+05 / 87
p0 0.01143 ± 9.436e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

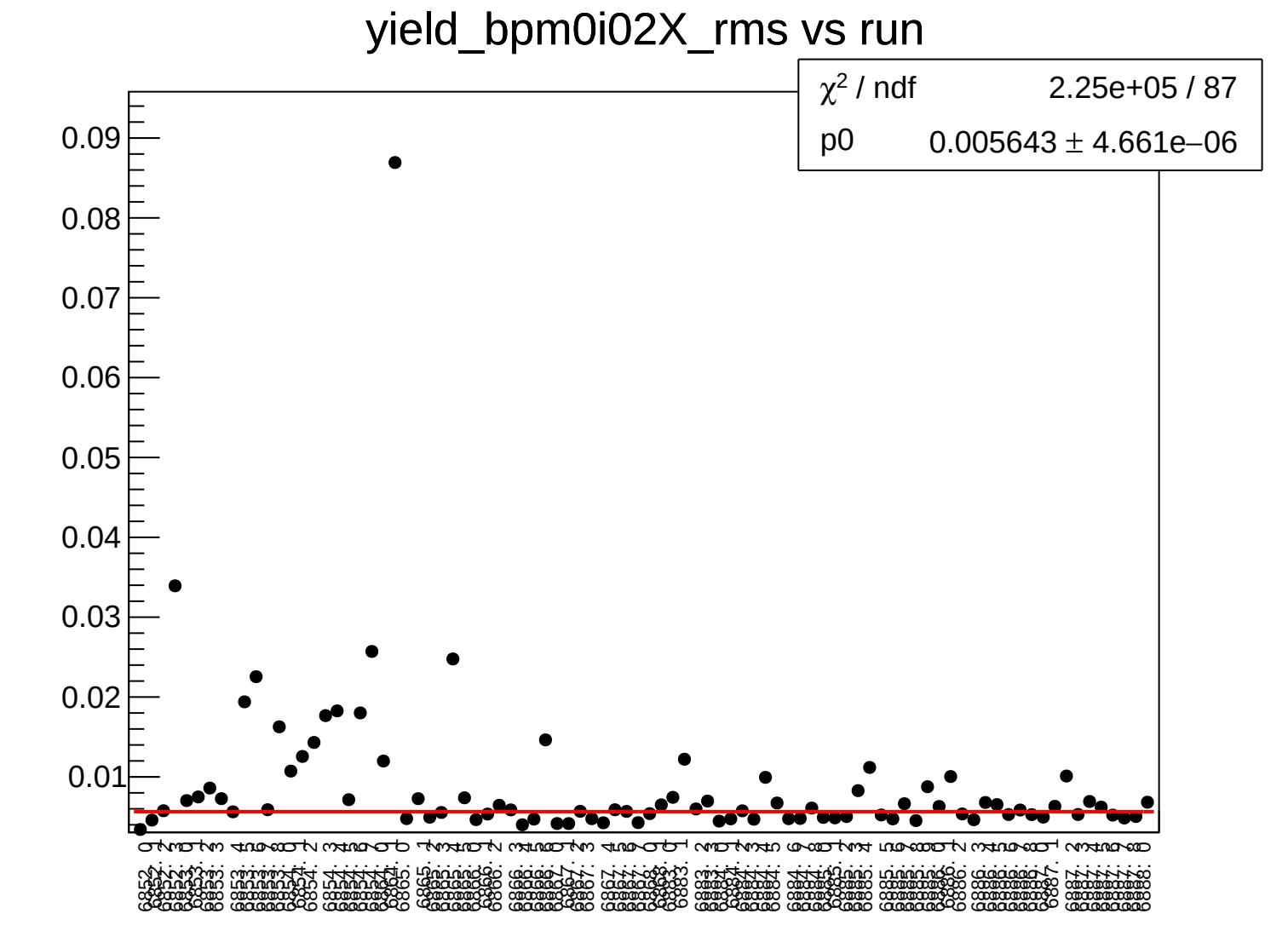

yield_bpm16Y_mean vs run
χ² / ndf 5.128e+04 / 87
p0 −0.2845 ± 6.563e−06
−0.282
−0.284
−0.286
−0.288
−0.29
−0.292
pull
Entries 88
Mean −195.1
Std Dev 0
40
20
0
−20
−40
−60
−80

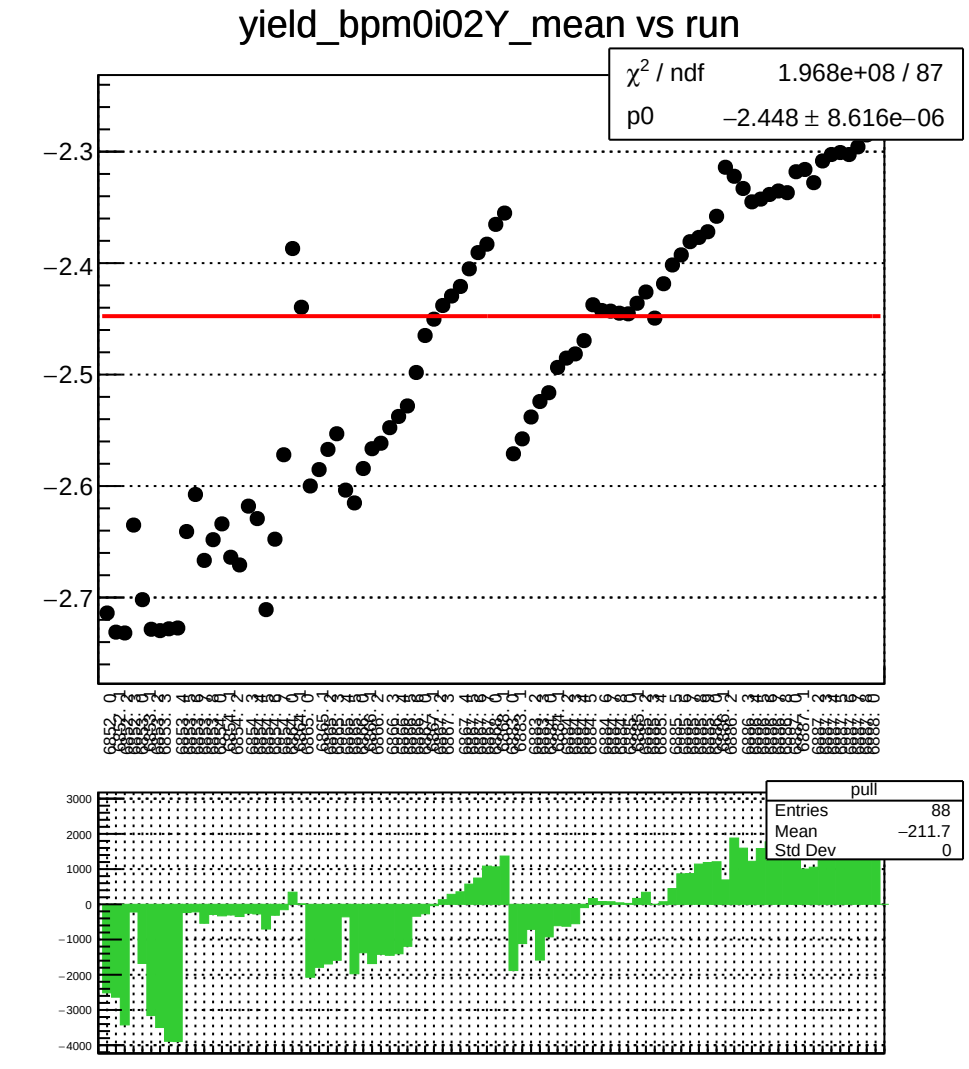

pull1D
Entries 88
Mean −0.7666
Std Dev 4.711
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

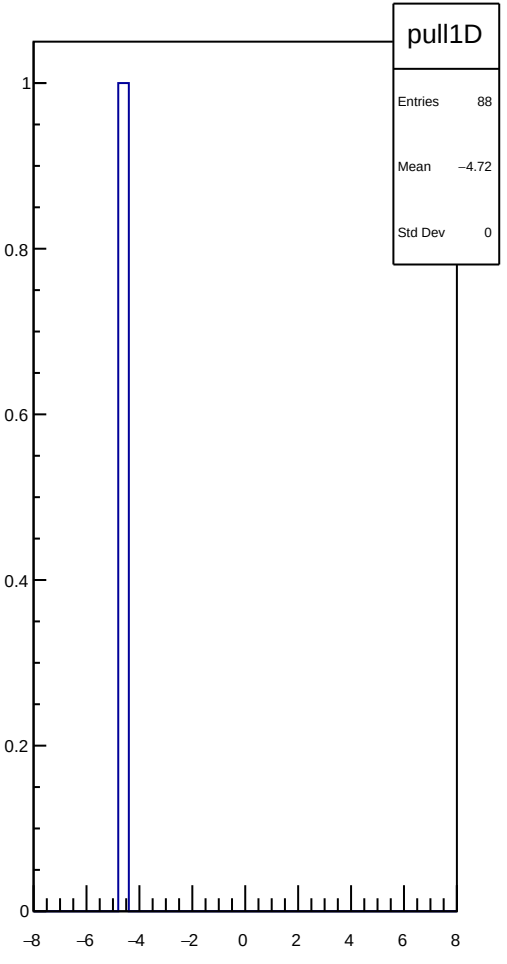

yield_bpm16Y_rms vs run
χ² / ndf 8.001e+04 / 87
p0 0.00589 ± 4.641e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

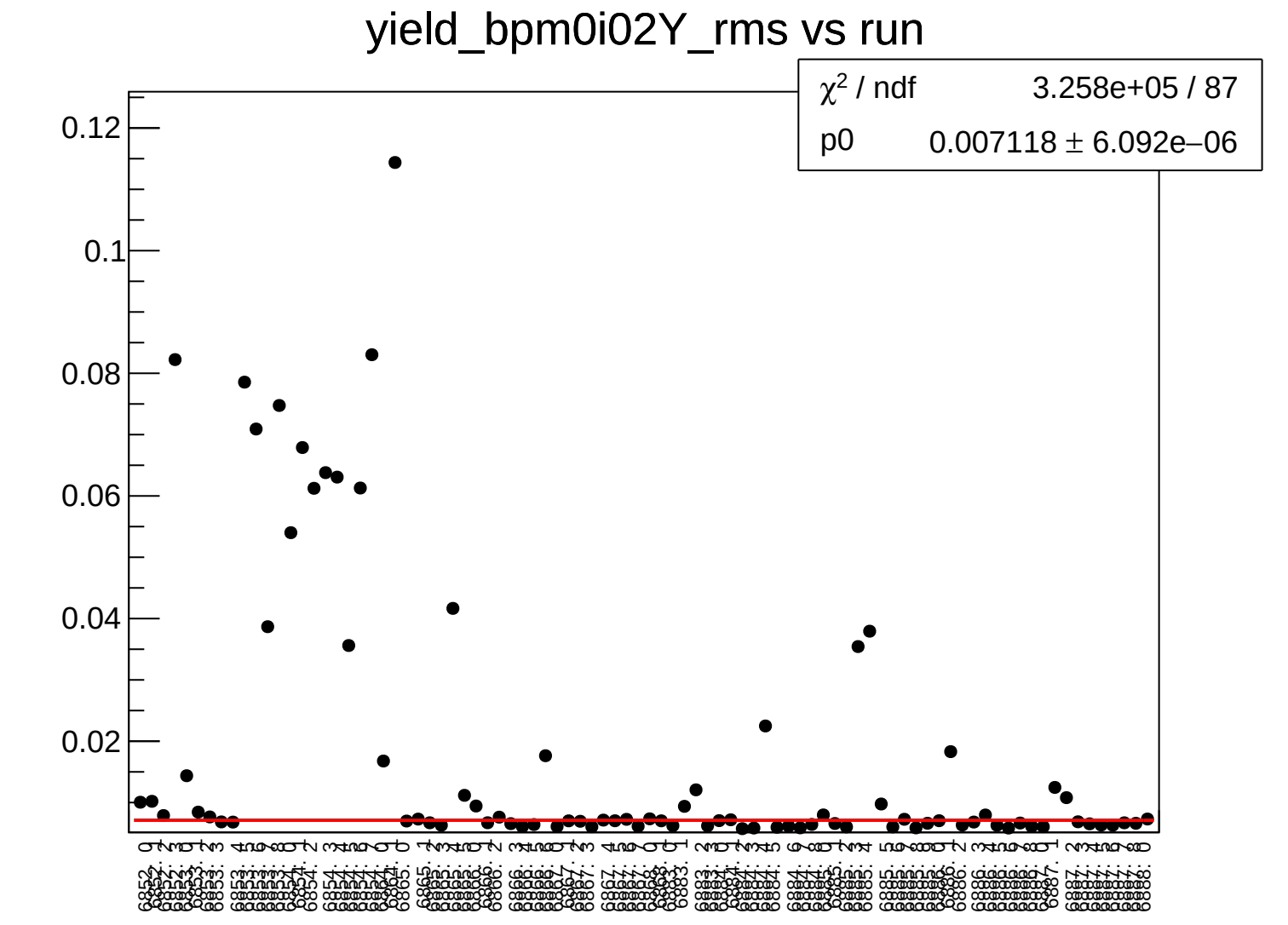

yield_bpm0i02X_mean vs run
χ² / ndf 2.855e+09 / 87
p0 0.1354 ± 6.592e−06
pull
Entries 88
Mean 401.3
Std Dev 0

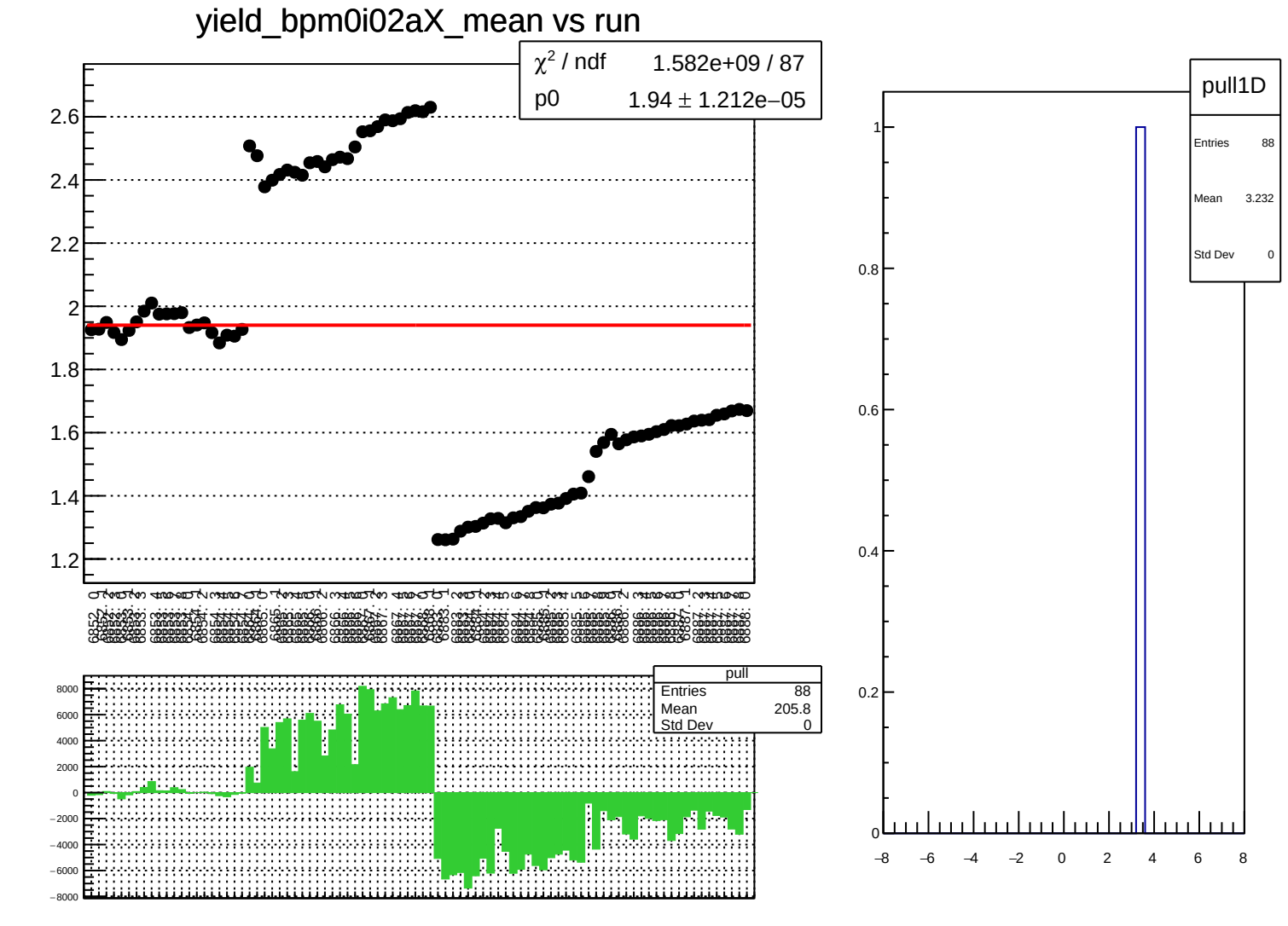

pull1D
Entries 88
Mean 0
Std Dev 0

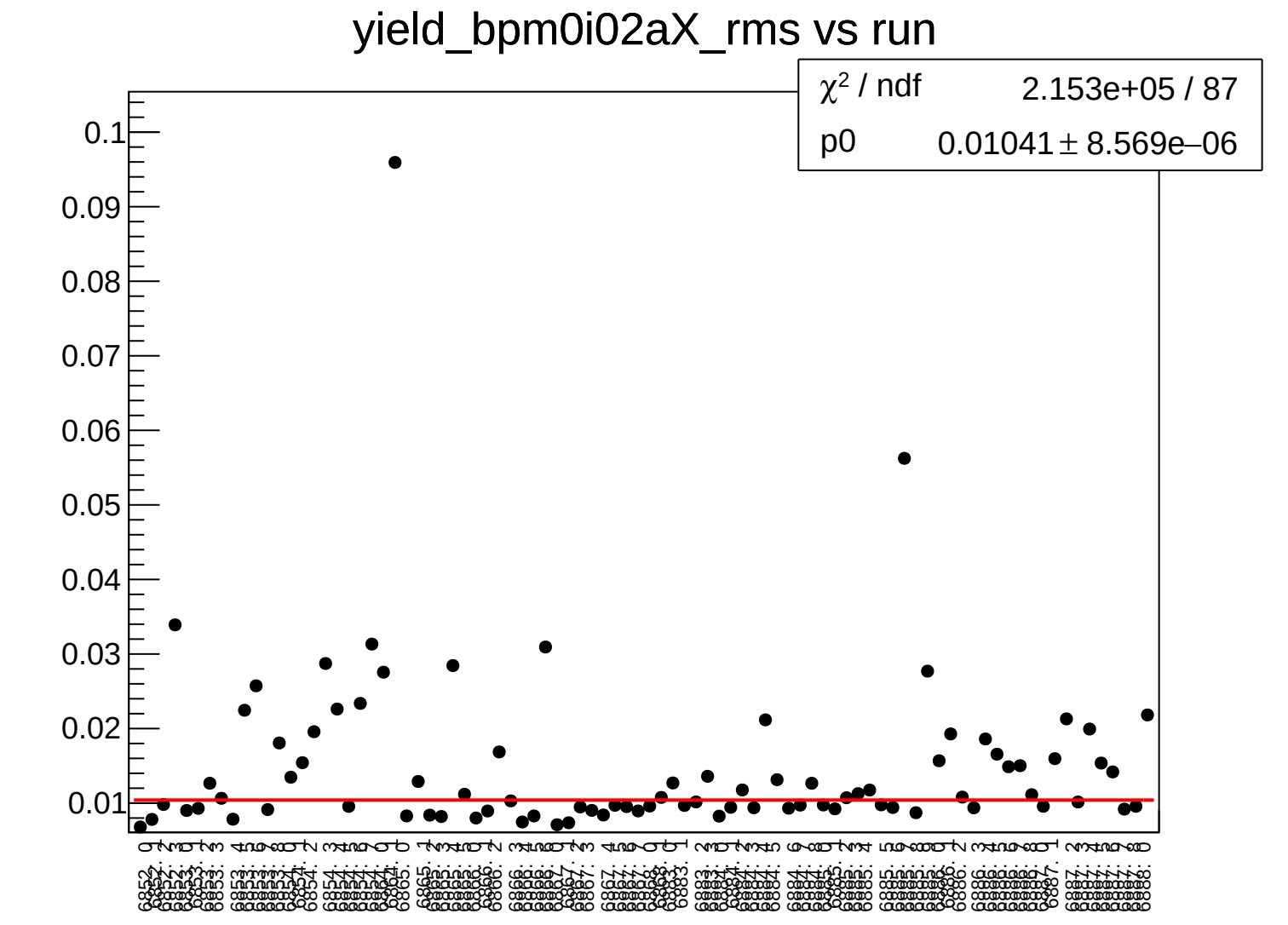

yield_bpm0i02X_rms vs run
χ² / ndf 2.25e+05 / 87
p0 0.005643 ± 4.661e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

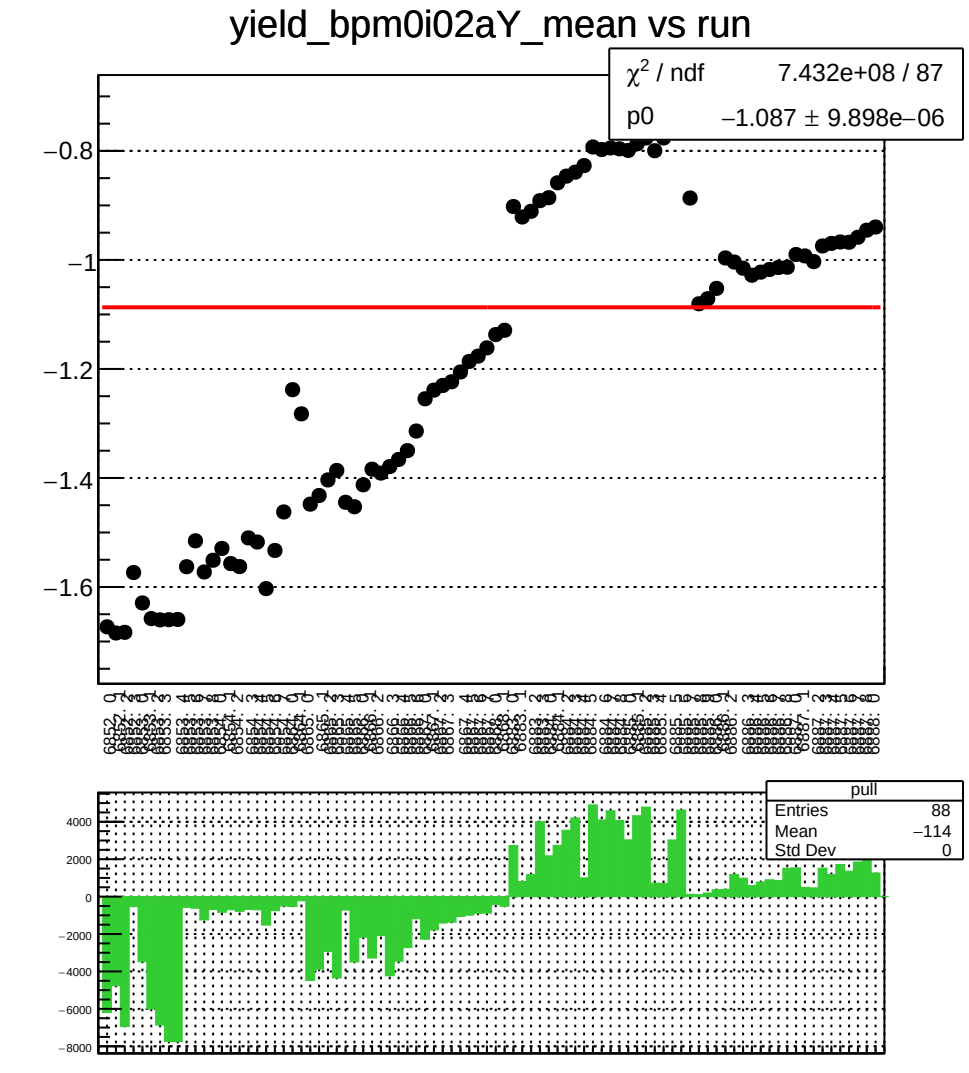

yield_bpm0i02Y_mean vs run
χ² / ndf 1.968e+08 / 87
p0 −2.448 ± 8.616e−06
−2.3
−2.4
−2.5
−2.6
−2.7
pull
Entries 88
Mean −211.7
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
−4000

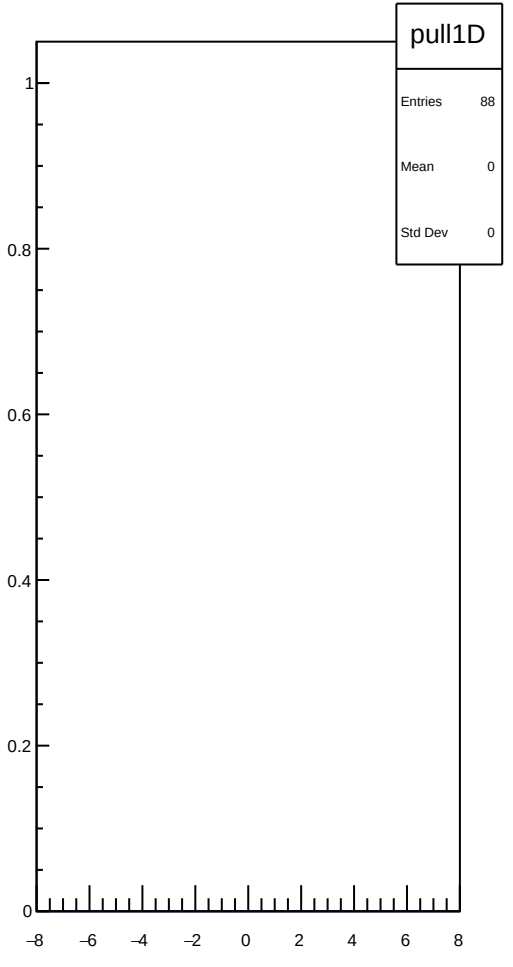

pull1D
Entries 88
Mean −4.72
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

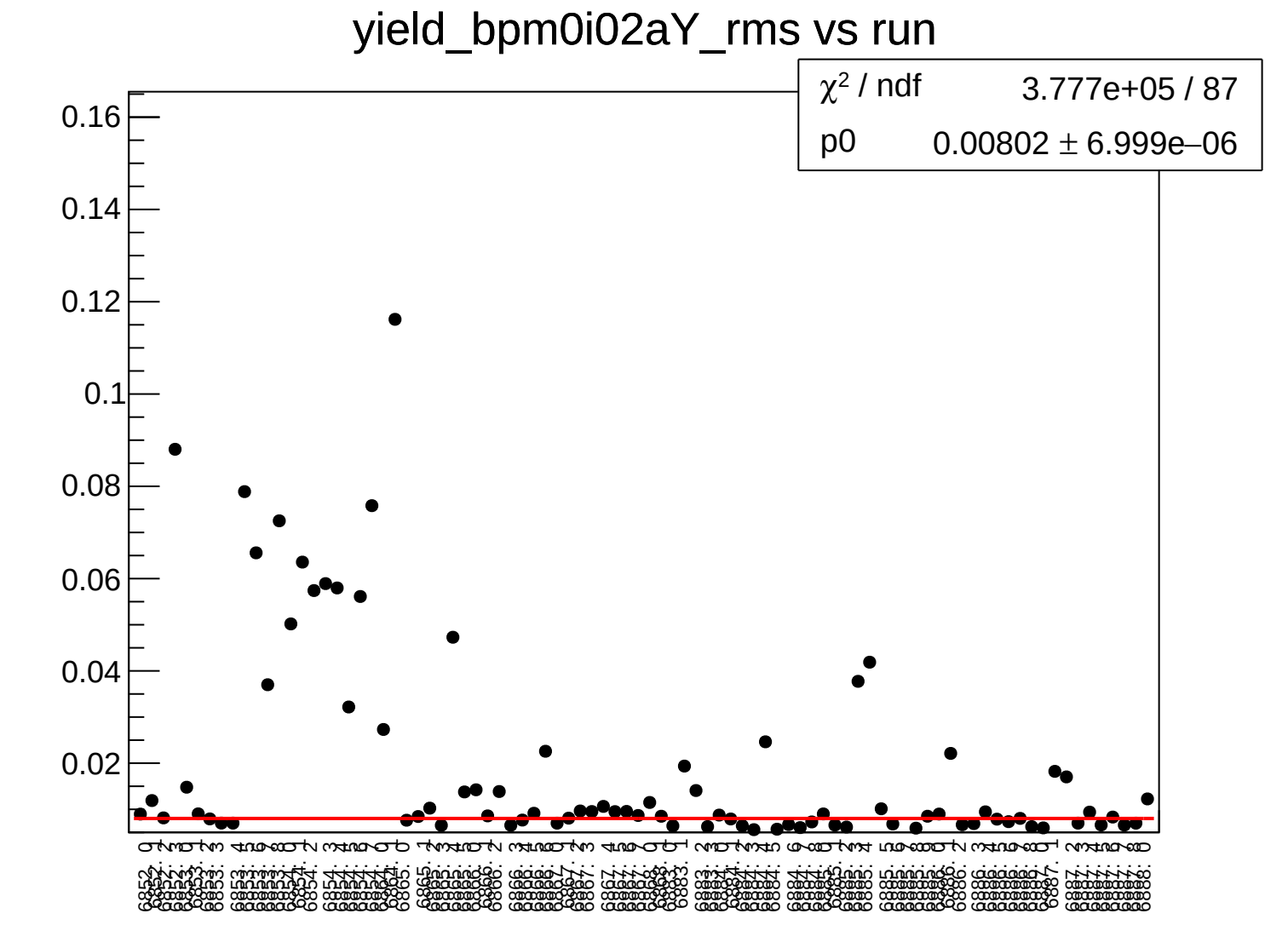

yield_bpm0i02Y_rms vs run
χ² / ndf 3.258e+05 / 87
p0 0.007118 ± 6.092e−06
0.12
0.1
0.08
0.06
0.04
0.02

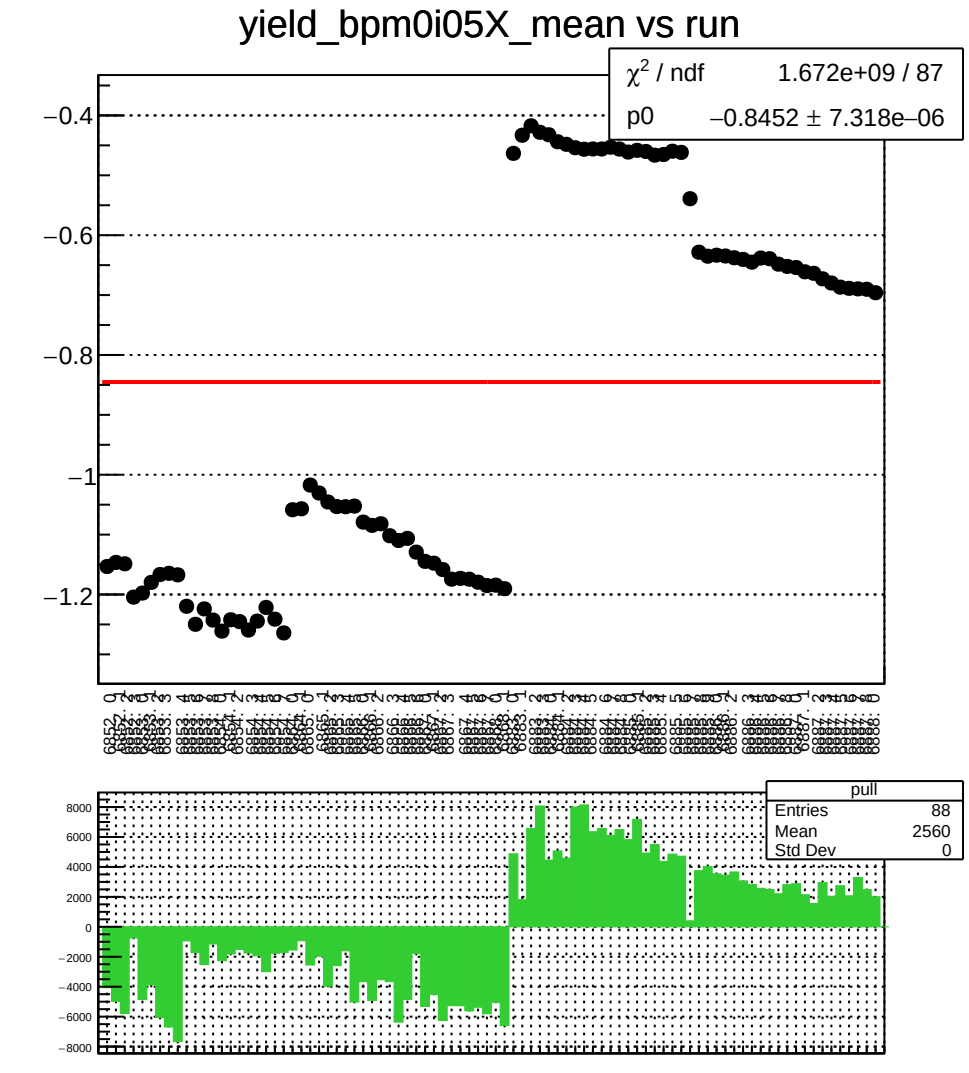

yield_bpm0i02aX_mean vs run
χ² / ndf 1.582e+09 / 87
p0 1.94 ± 1.212e−05
pull
Entries 88
Mean 205.8
Std Dev 0
pull1D
Entries 88
Mean 3.232
Std Dev 0

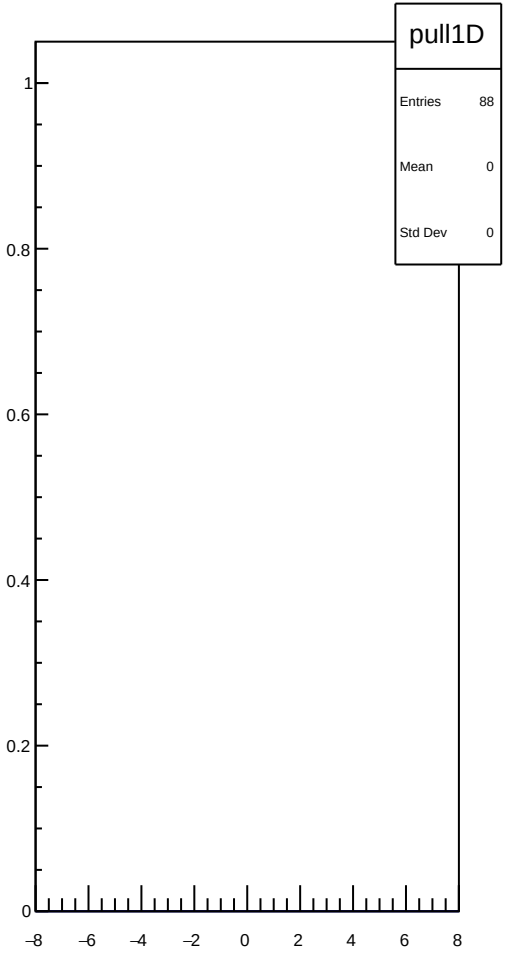

yield_bpm0i02aX_rms vs run
χ² / ndf 2.153e+05 / 87
p0 0.01041 ± 8.569e–06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

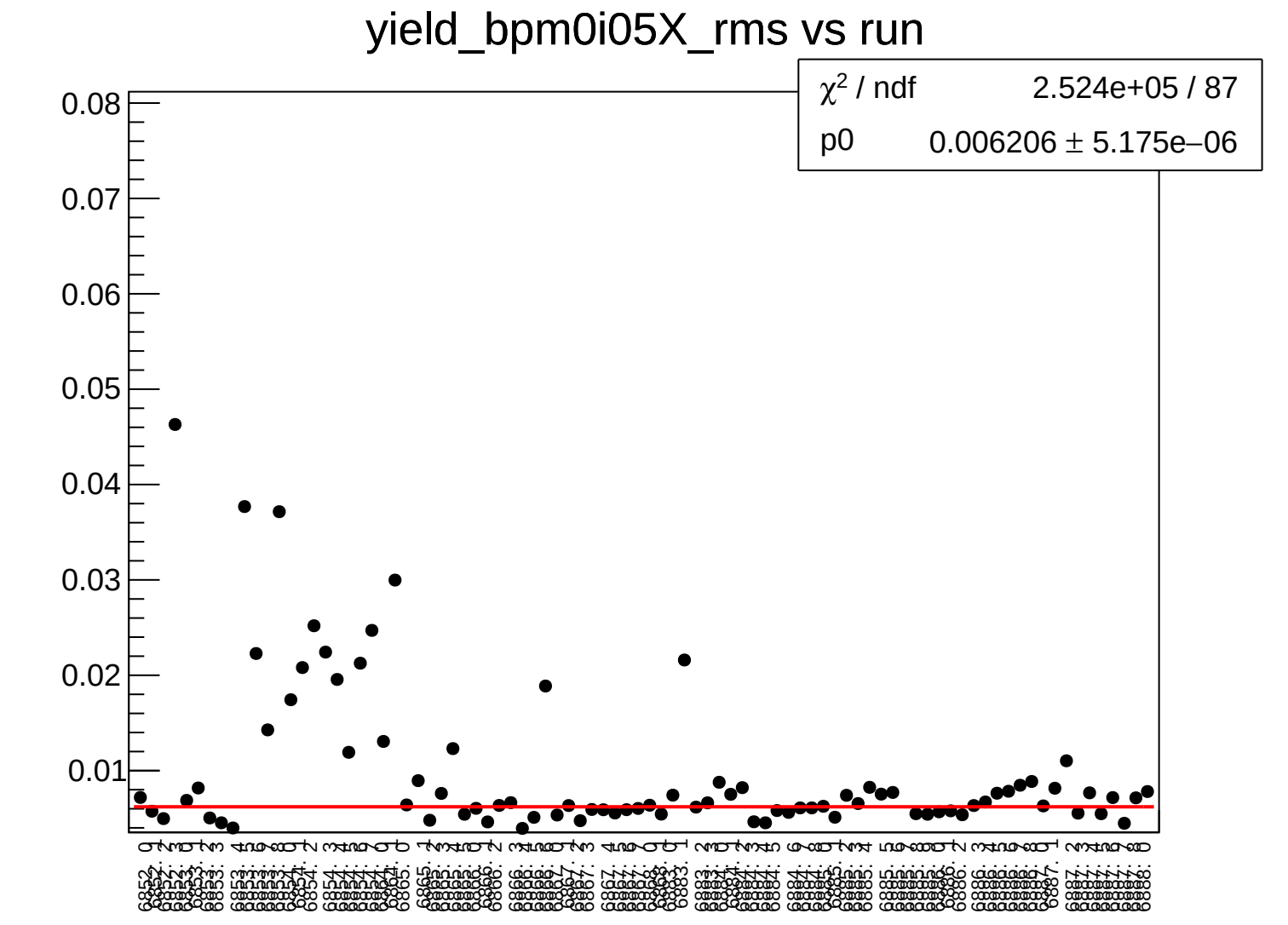

yield_bpm0i02aY_mean vs run
χ² / ndf 7.432e+08 / 87
p0 −1.087 ± 9.898e−06
−0.8
−1
−1.2
−1.4
−1.6
pull
Entries 88
Mean −114
Std Dev 0
4000
2000
0
−2000
−4000
−6000
−8000

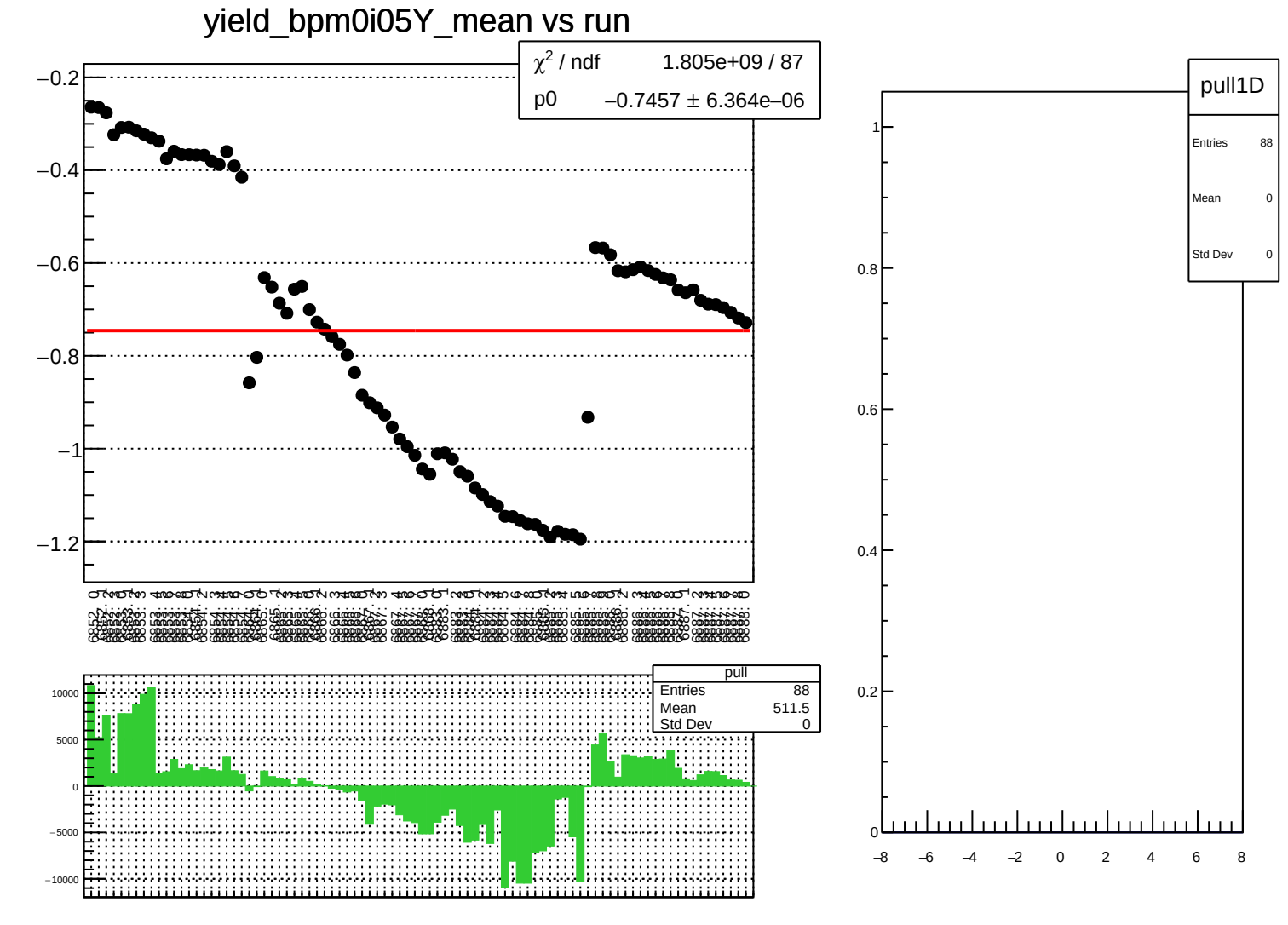

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

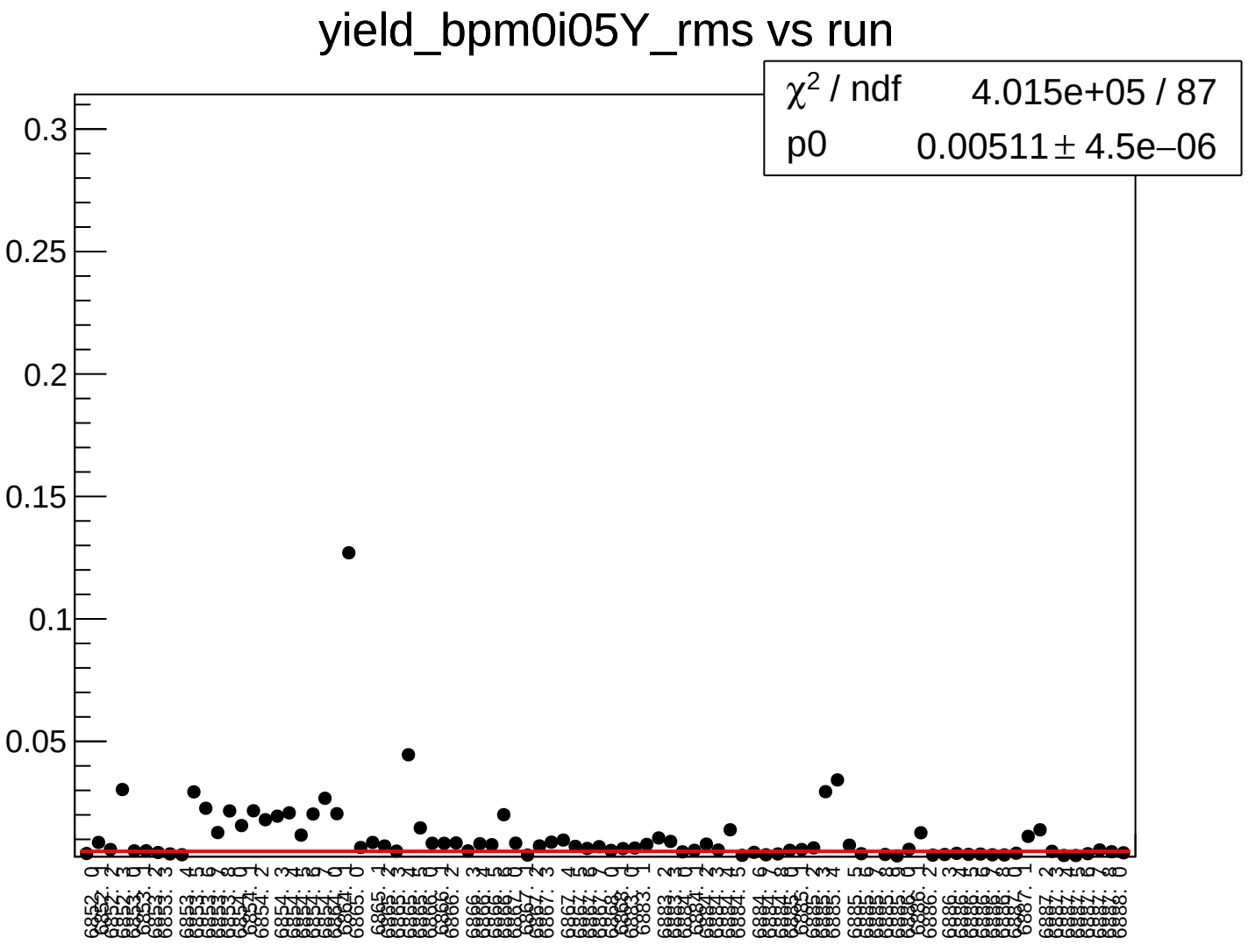

yield_bpm0i02aY_rms vs run
χ² / ndf 3.777e+05 / 87
p0 0.00802 ± 6.999e–06
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

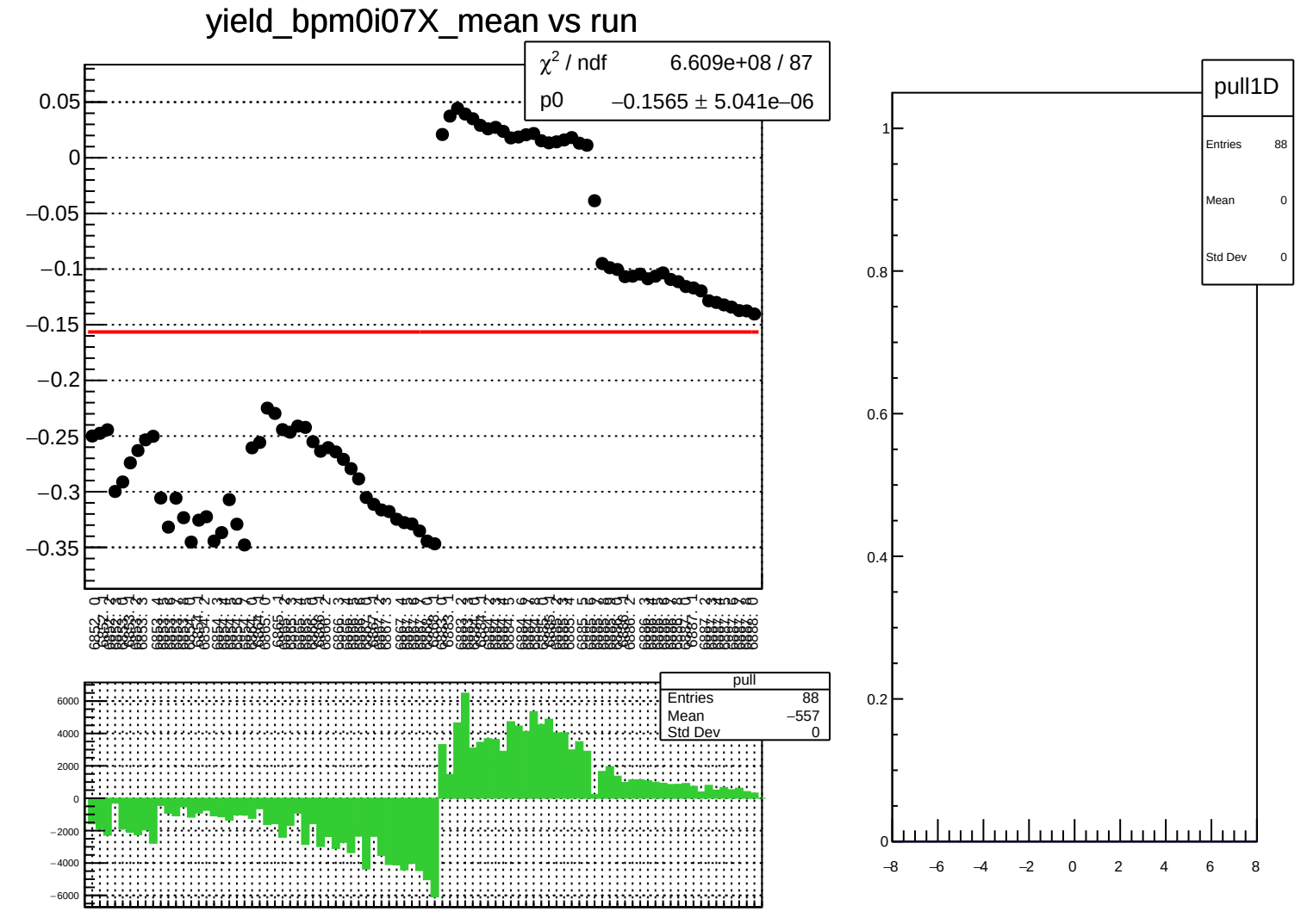

yield_bpm0i05X_mean vs run
χ² / ndf 1.672e+09 / 87
p0 −0.8452 ± 7.318e−06
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 88
Mean 2560
Std Dev 0
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000

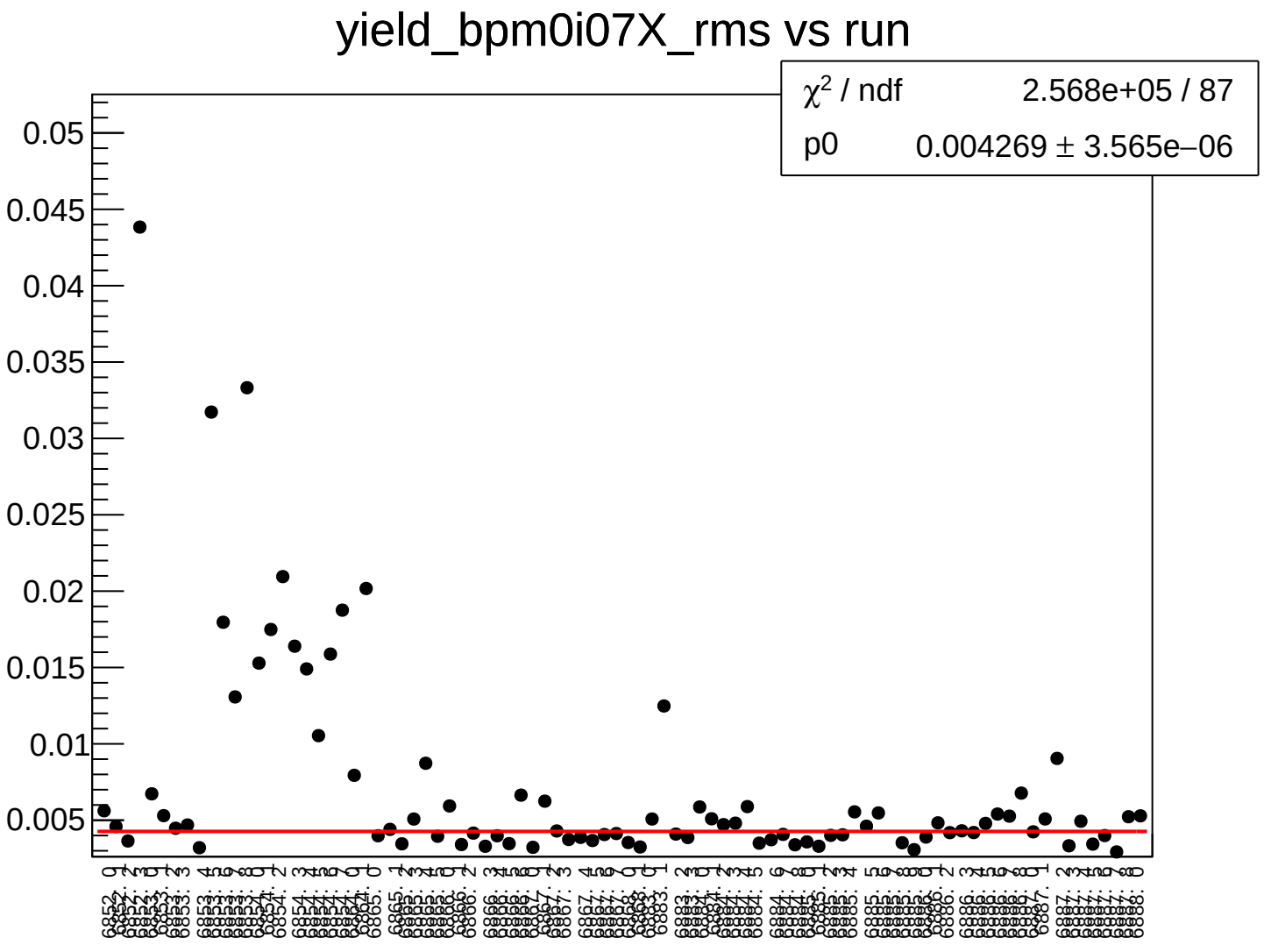

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

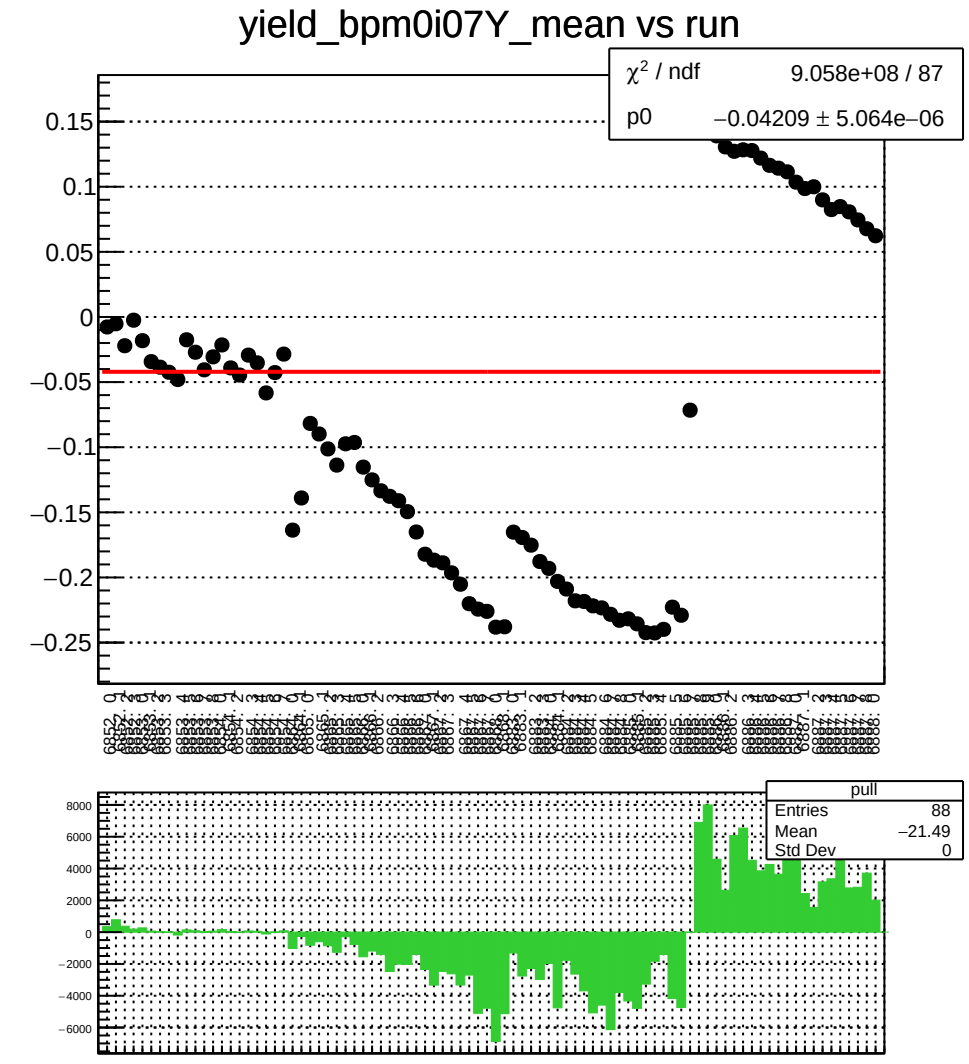

yield_bpm0i05X_rms vs run
χ² / ndf 2.524e+05 / 87
p0 0.006206 ± 5.175e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

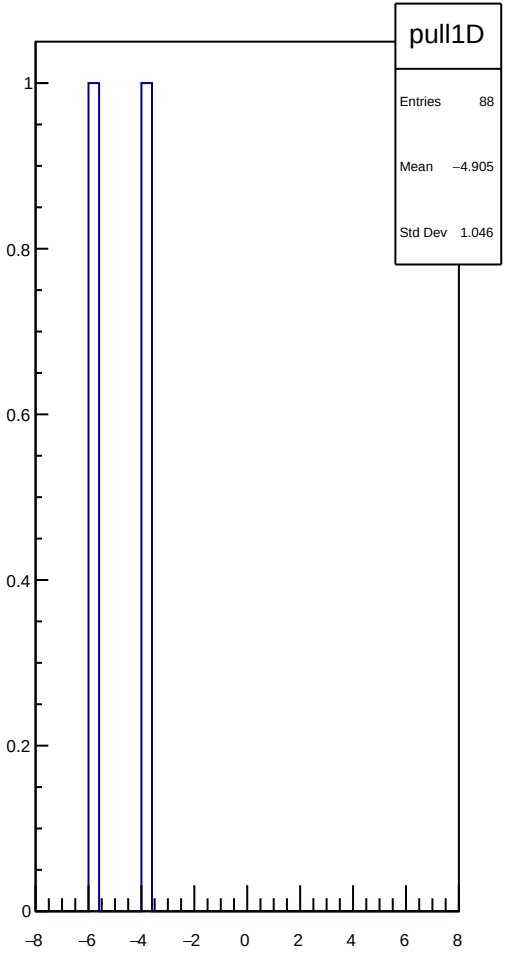

yield_bpm0i05Y_mean vs run
χ² / ndf 1.805e+09 / 87
p0 −0.7457 ± 6.364e−06
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 88
Mean 511.5
Std Dev 0
10000
5000
0
−5000
−10000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

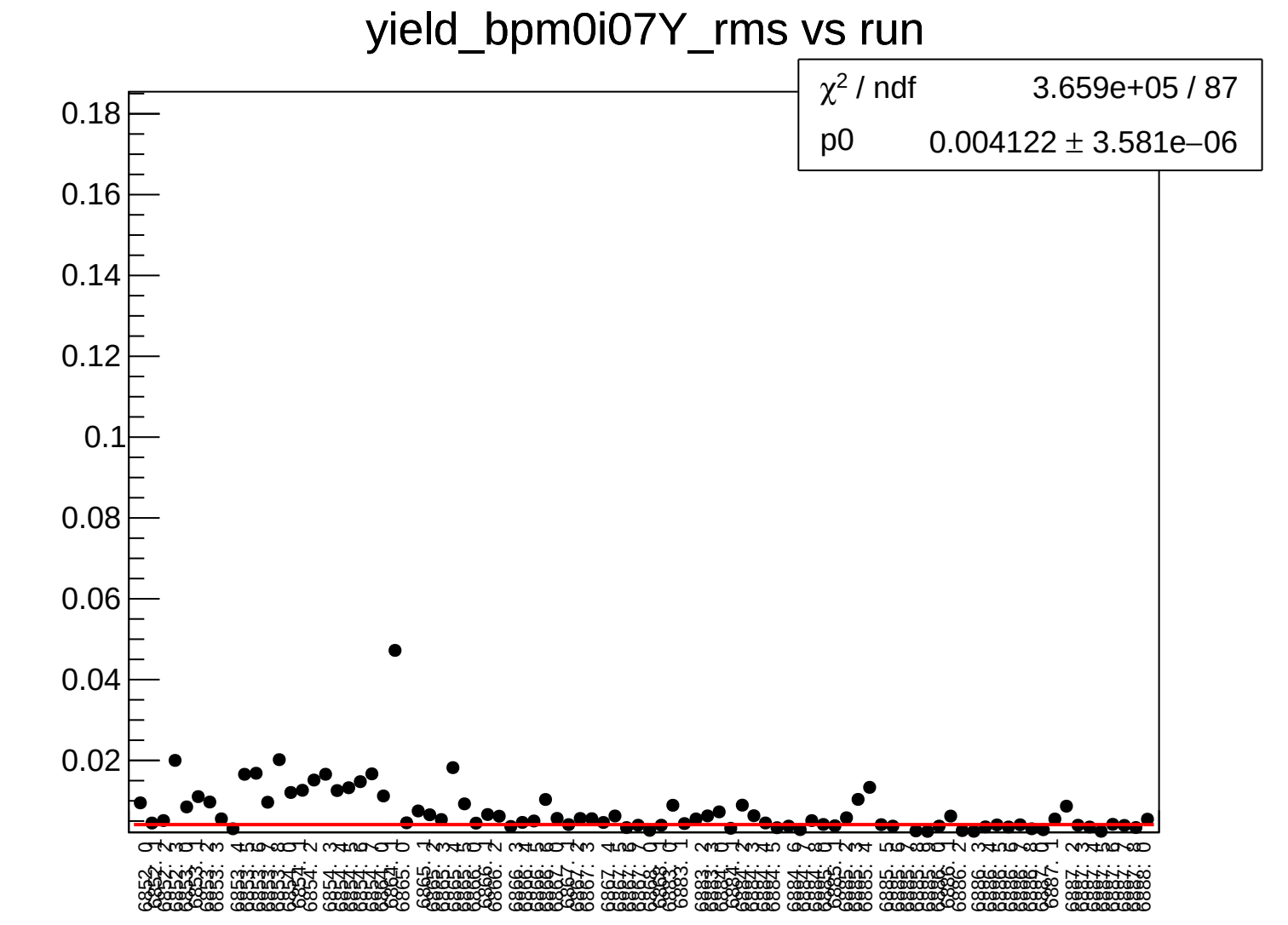

yield_bpm0i05Y_rms vs run
χ² / ndf 4.015e+05 / 87
p0 0.00511 ± 4.5e−06
0.3
0.25
0.2
0.15
0.1
0.05

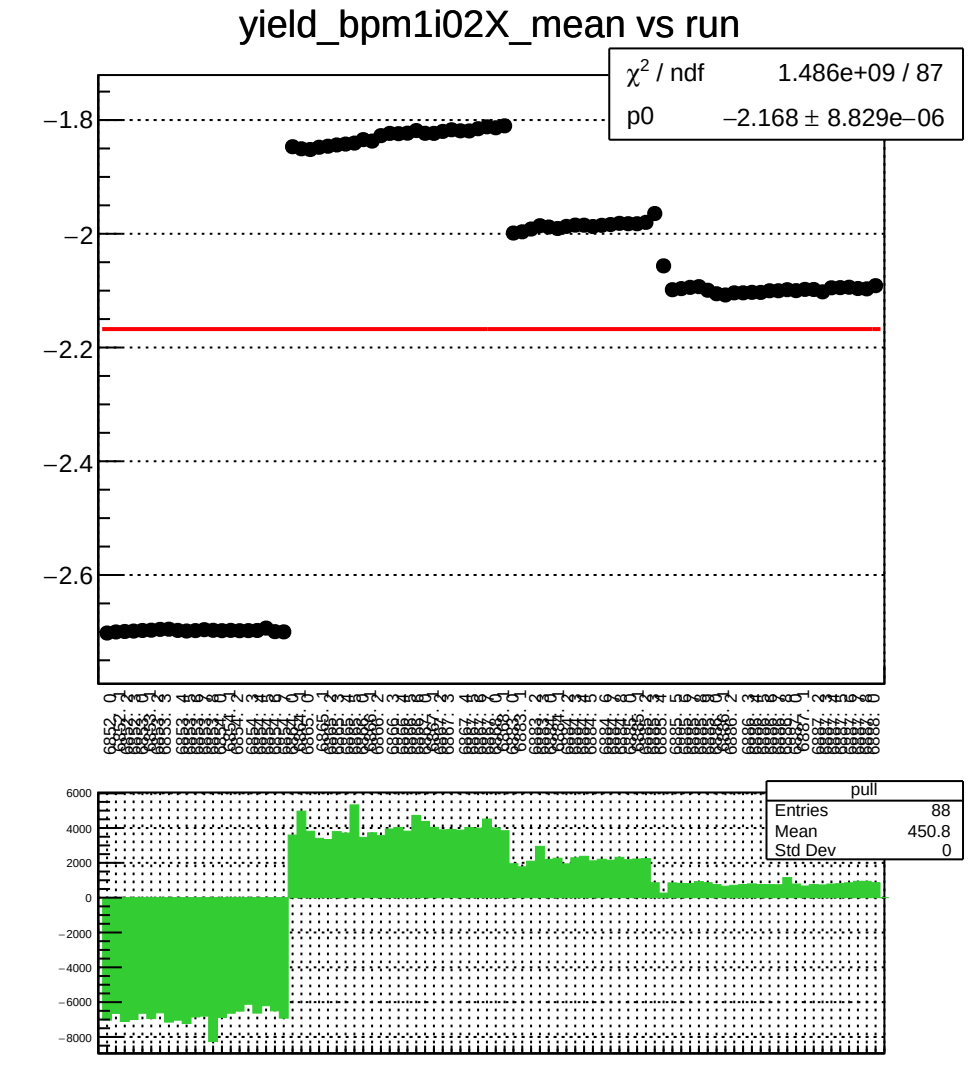

yield_bpm0i07X_mean vs run
χ² / ndf 6.609e+08 / 87
p0 −0.1565 ± 5.041e−06
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
pull
Entries 88
Mean −557
Std Dev 0
6000
4000
2000
0
−2000
−4000
−6000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

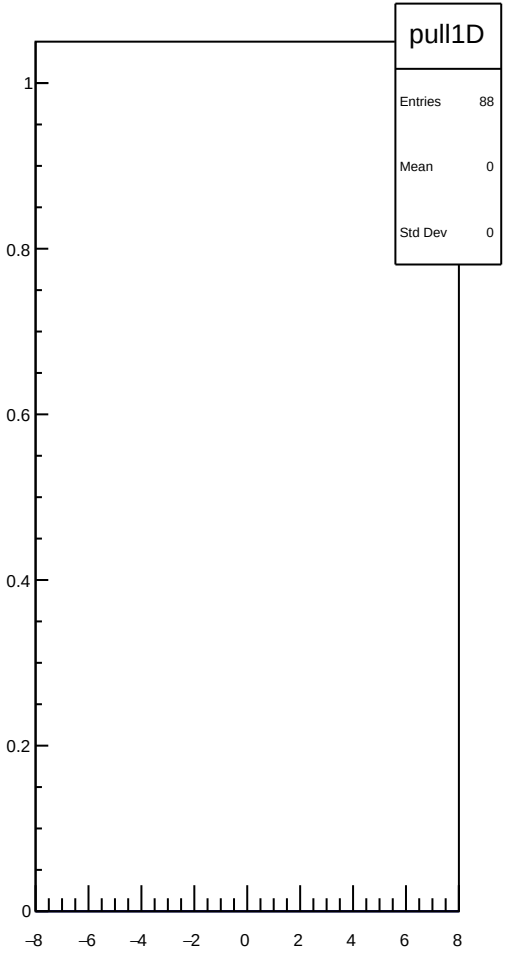

yield_bpm0i07X_rms vs run
χ² / ndf 2.568e+05 / 87
p0 0.004269 ± 3.565e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

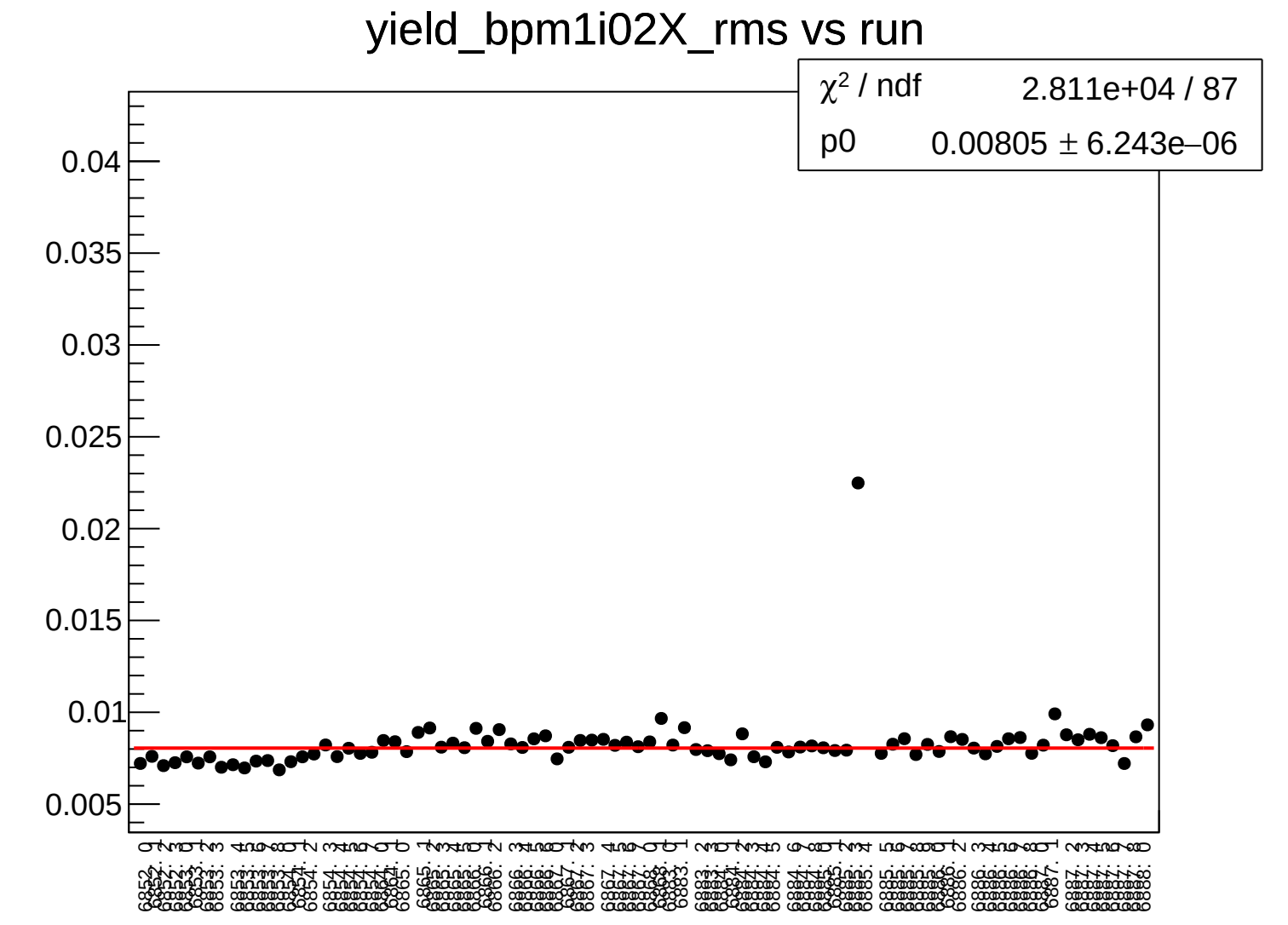

yield_bpm0i07Y_mean vs run
χ² / ndf 9.058e+08 / 87
p0 −0.04209 ± 5.064e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 88
Mean −21.49
Std Dev 0
8000
6000
4000
2000
0
−2000
−4000
−6000

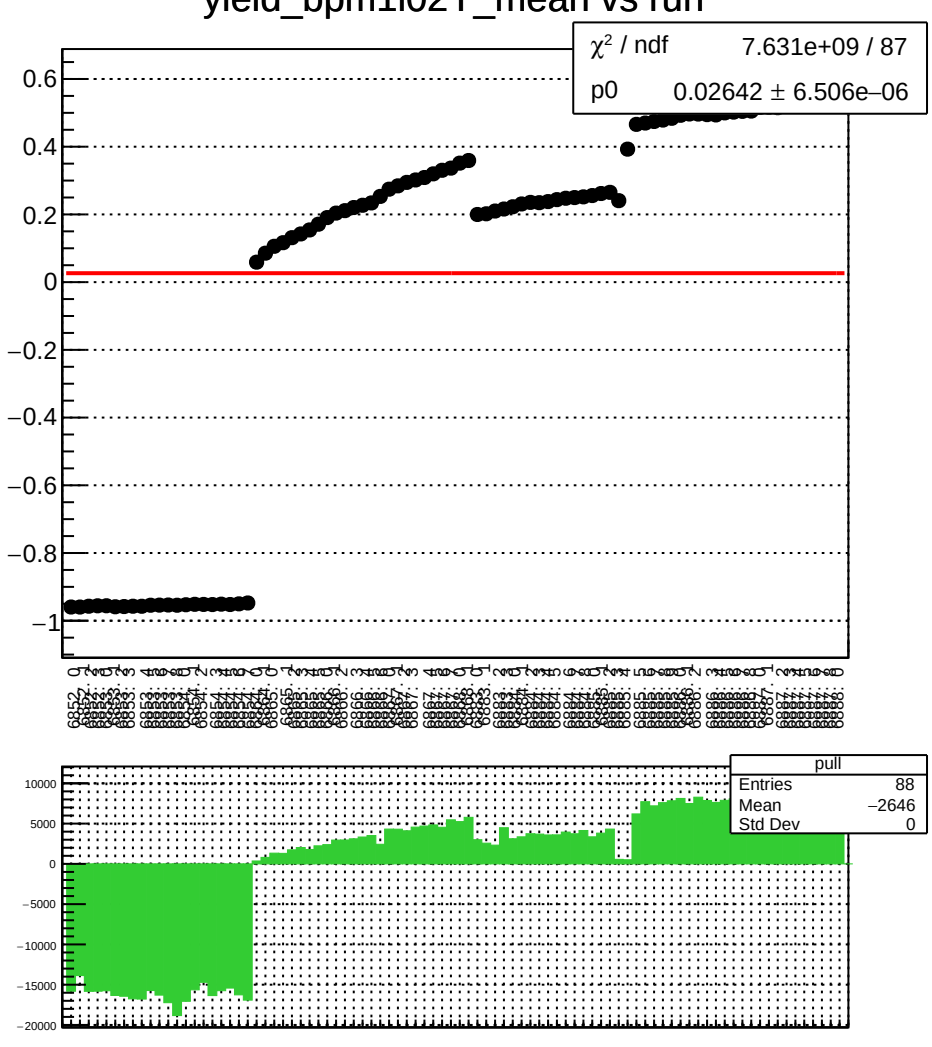

pull1D
Entries 88
Mean −4.905
Std Dev 1.046
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

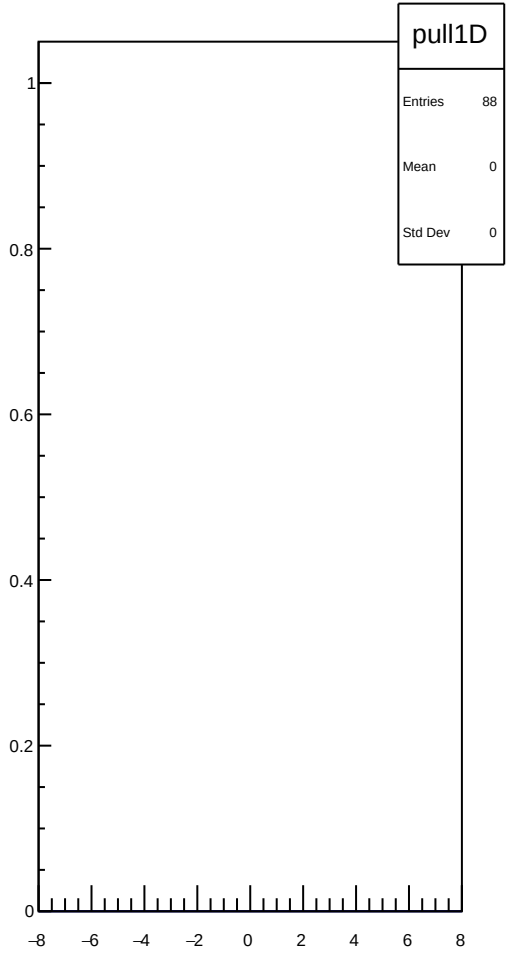

yield_bpm0i07Y_rms vs run
χ² / ndf 3.659e+05 / 87
p0 0.004122 ± 3.581e−06
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

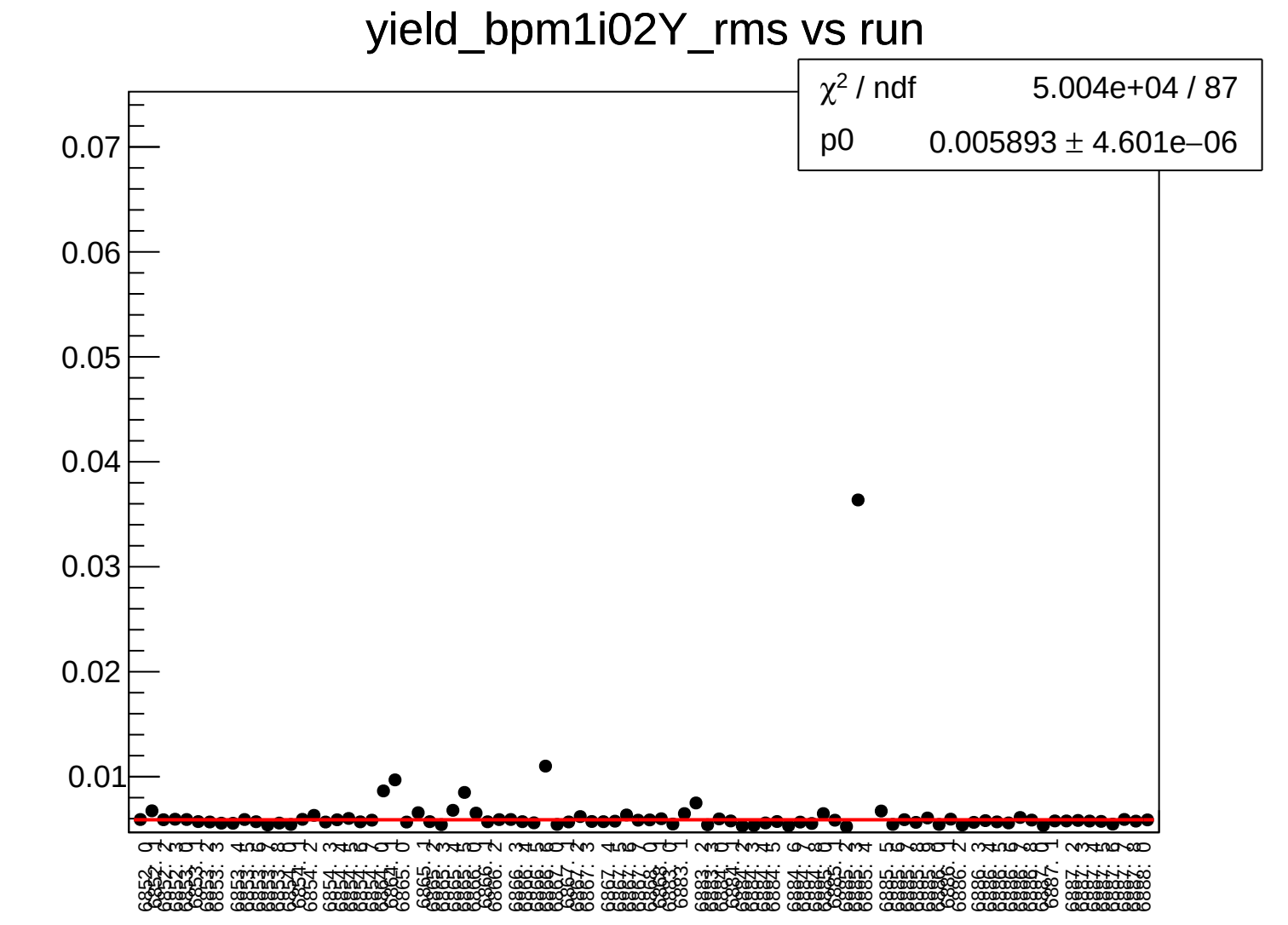

yield_bpm1i02X_mean vs run
χ² / ndf 1.486e+09 / 87
p0 −2.168 ± 8.829e−06
−1.8
−2
−2.2
−2.4
−2.6
pull
Entries 88
Mean 450.8
Std Dev 0
6000
4000
2000
0
−2000
−4000
−6000
−8000

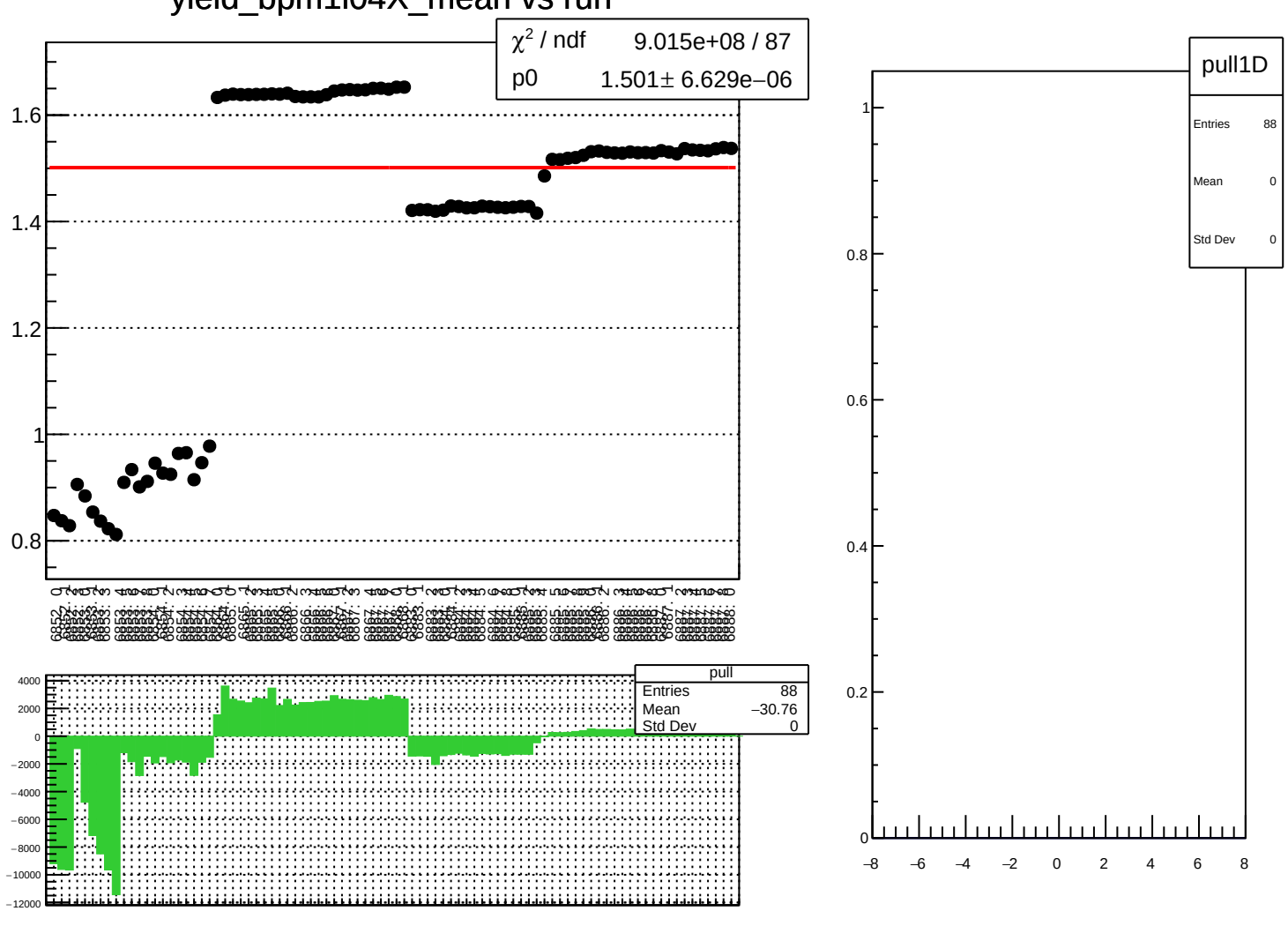

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

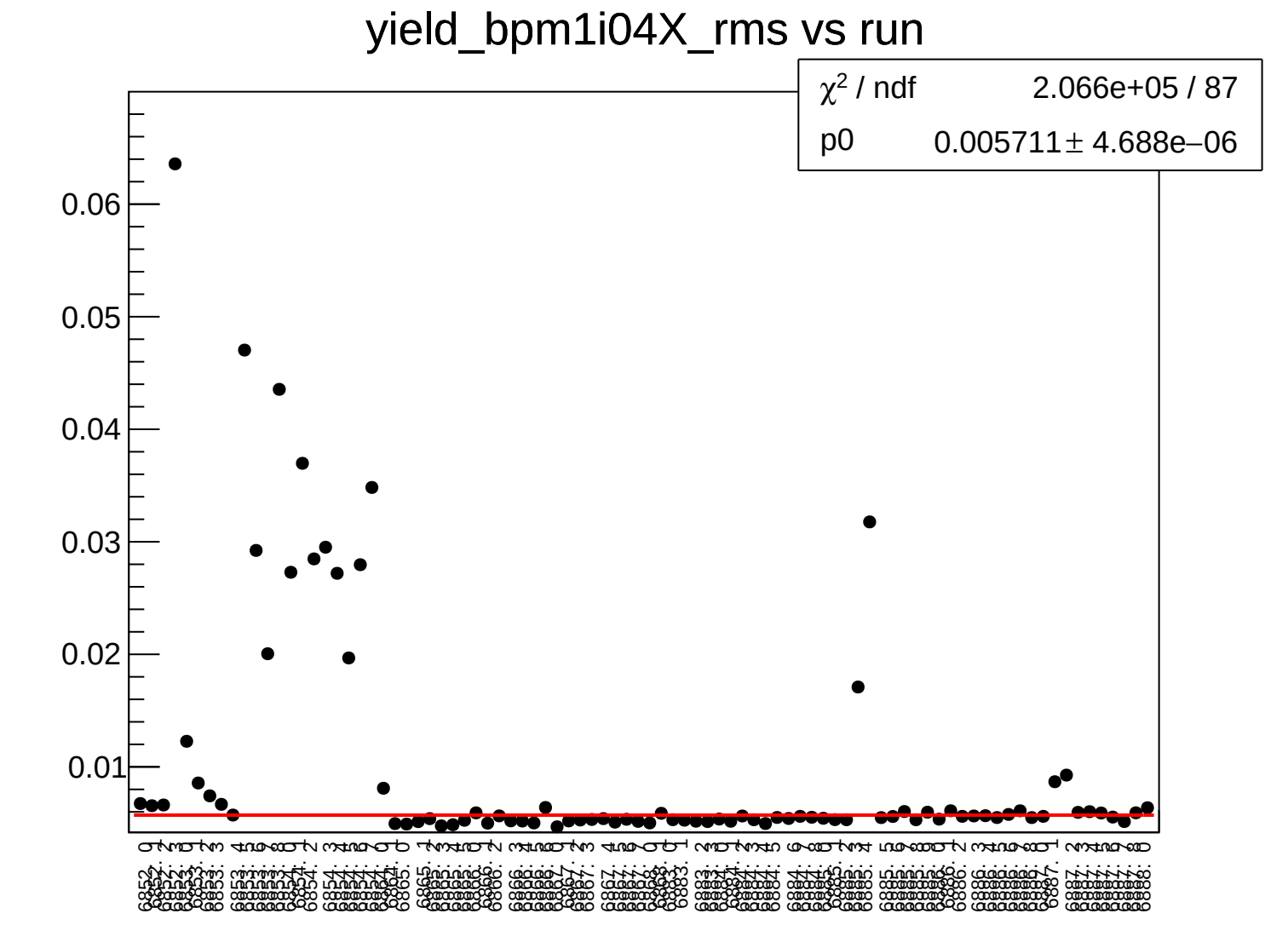

yield_bpm1i02X_rms vs run
χ² / ndf 2.811e+04 / 87
p0 0.00805 ± 6.243e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

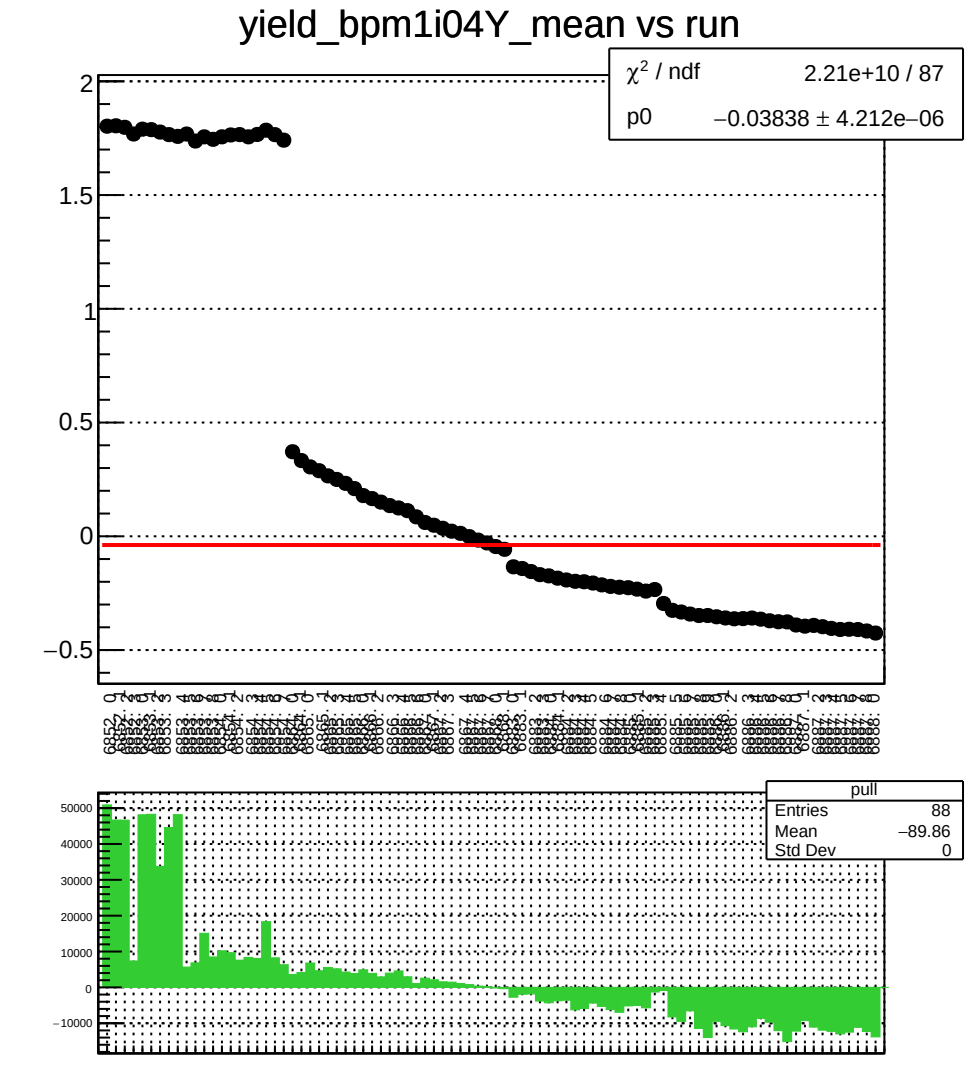

yield_bpm1i02Y_mean vs run
χ² / ndf 7.631e+09 / 87
p0 0.02642 ± 6.506e−06
pull
Entries 88
Mean −2646
Std Dev 0

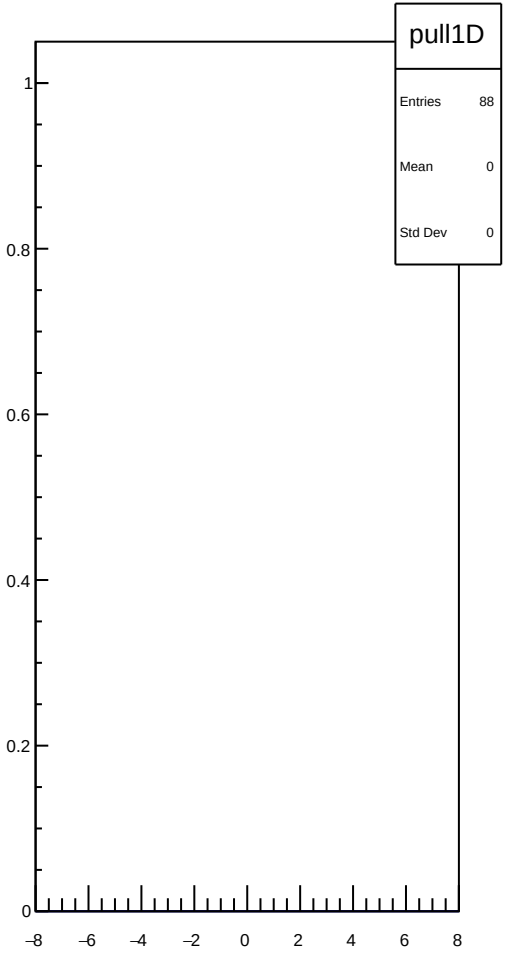

pull1D
Entries 88
Mean 0
Std Dev 0

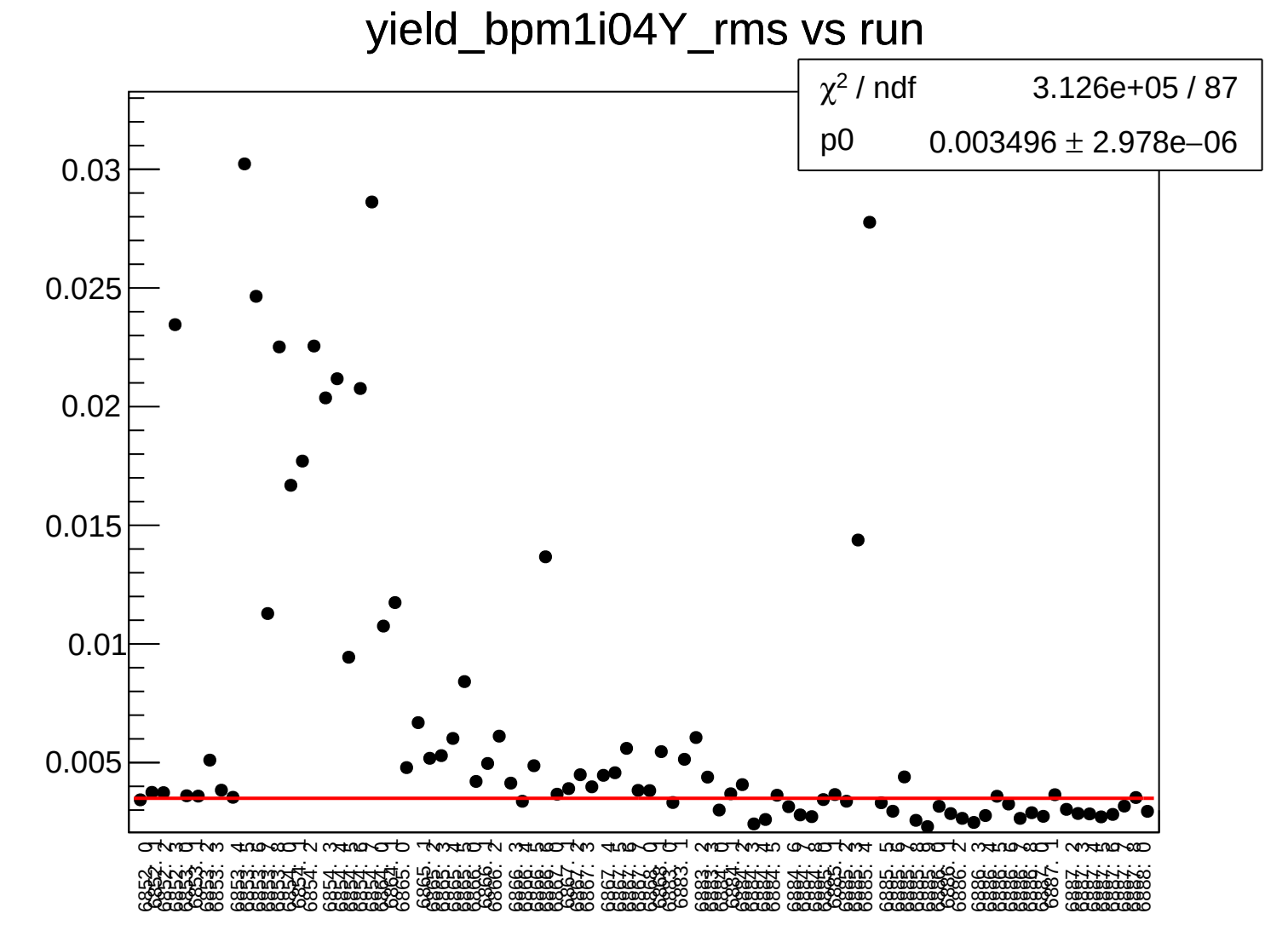

yield_bpm1i02Y_rms vs run
χ² / ndf 5.004e+04 / 87
p0 0.005893 ± 4.601e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

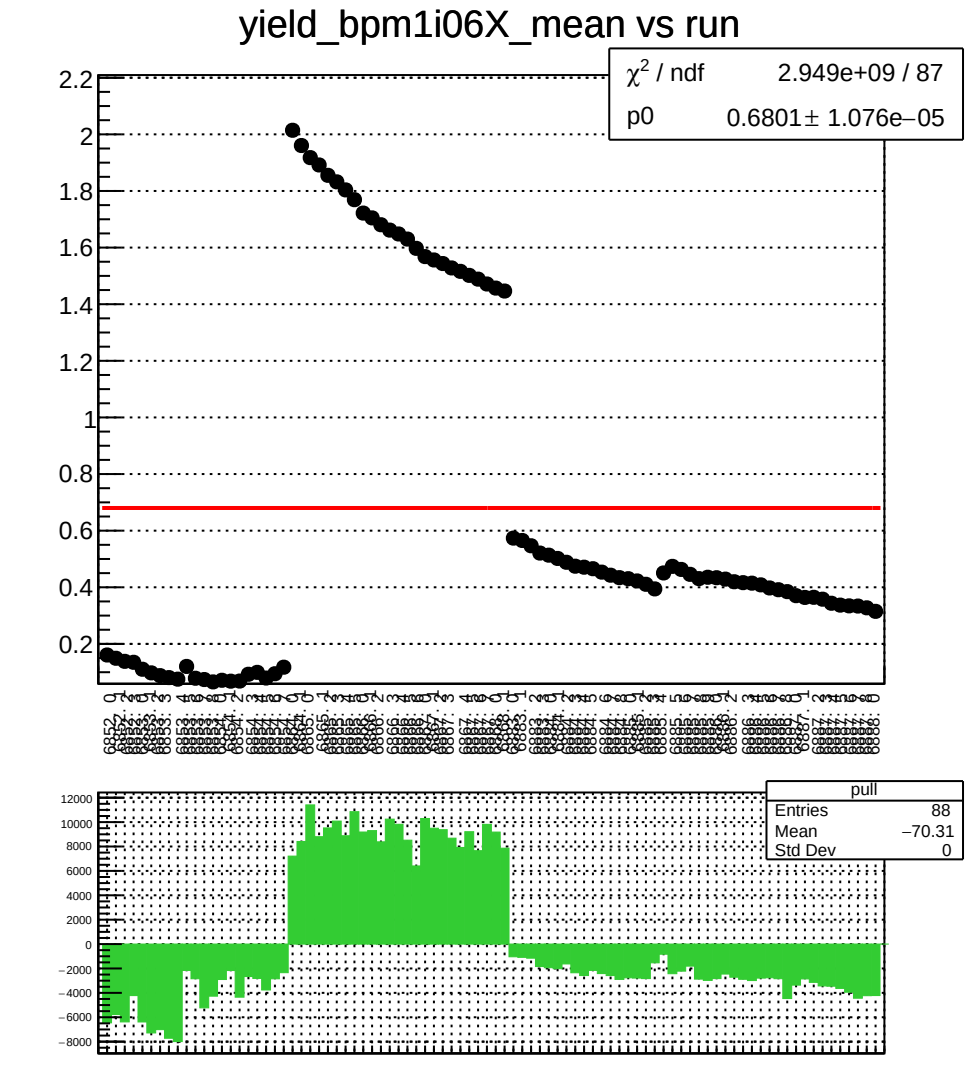

yield_bpm1i04X_mean vs run
χ² / ndf 9.015e+08 / 87
p0 1.501± 6.629e−06
1.6
1.4
1.2
1
0.8
pull
Entries 88
Mean −30.76
Std Dev 0
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

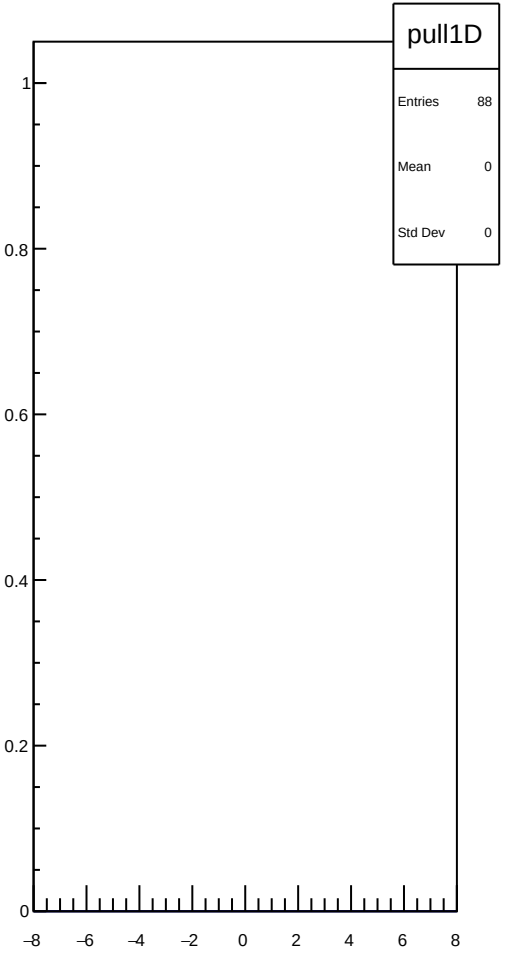

yield_bpm1i04X_rms vs run
χ² / ndf 2.066e+05 / 87
p0 0.005711 ± 4.688e−06
0.06
0.05
0.04
0.03
0.02
0.01

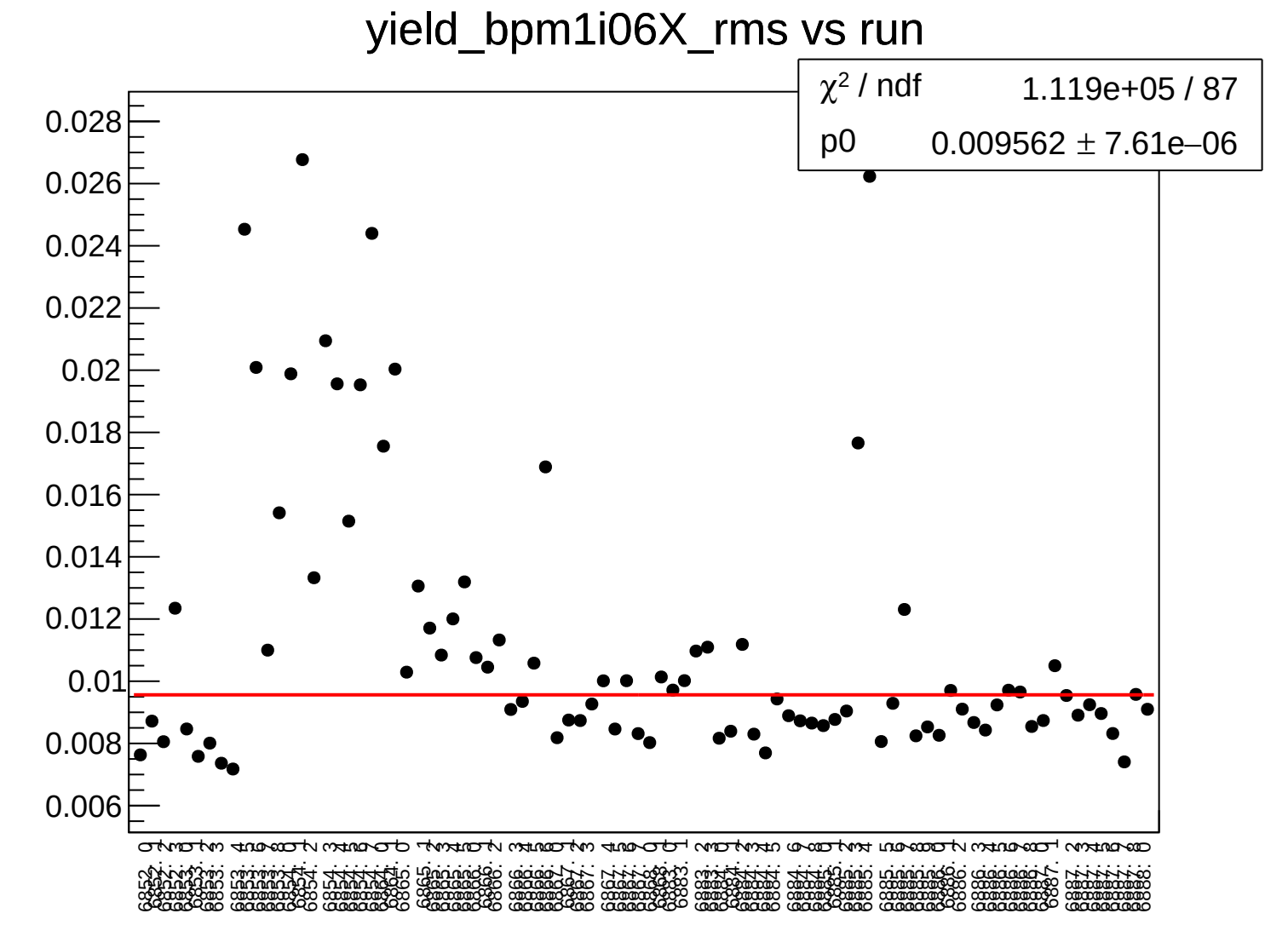

yield_bpm1i04Y_mean vs run
χ² / ndf 2.21e+10 / 87
p0 −0.03838 ± 4.212e−06
pull
Entries 88
Mean −89.86
Std Dev 0

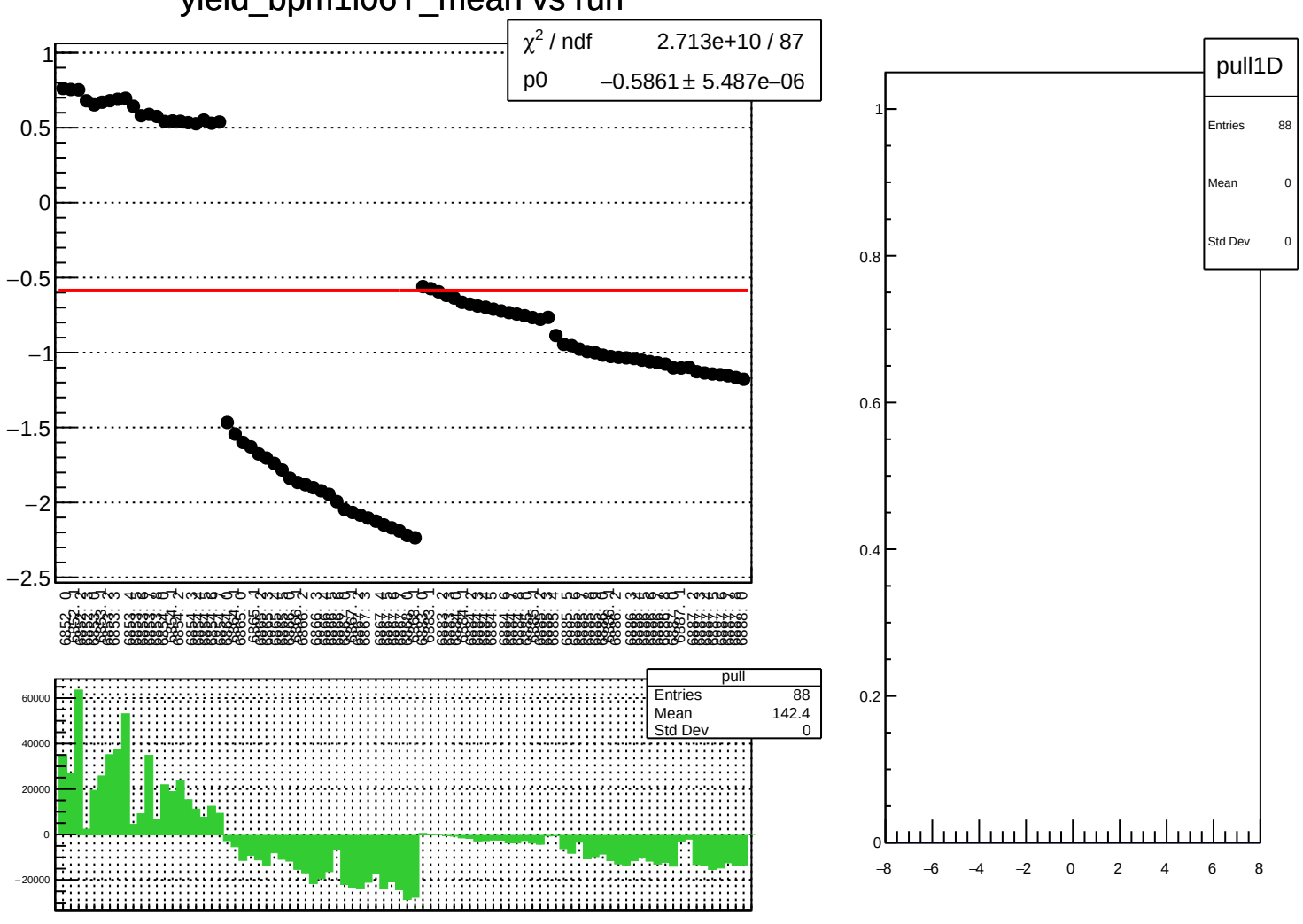

pull1D
Entries 88
Mean 0
Std Dev 0

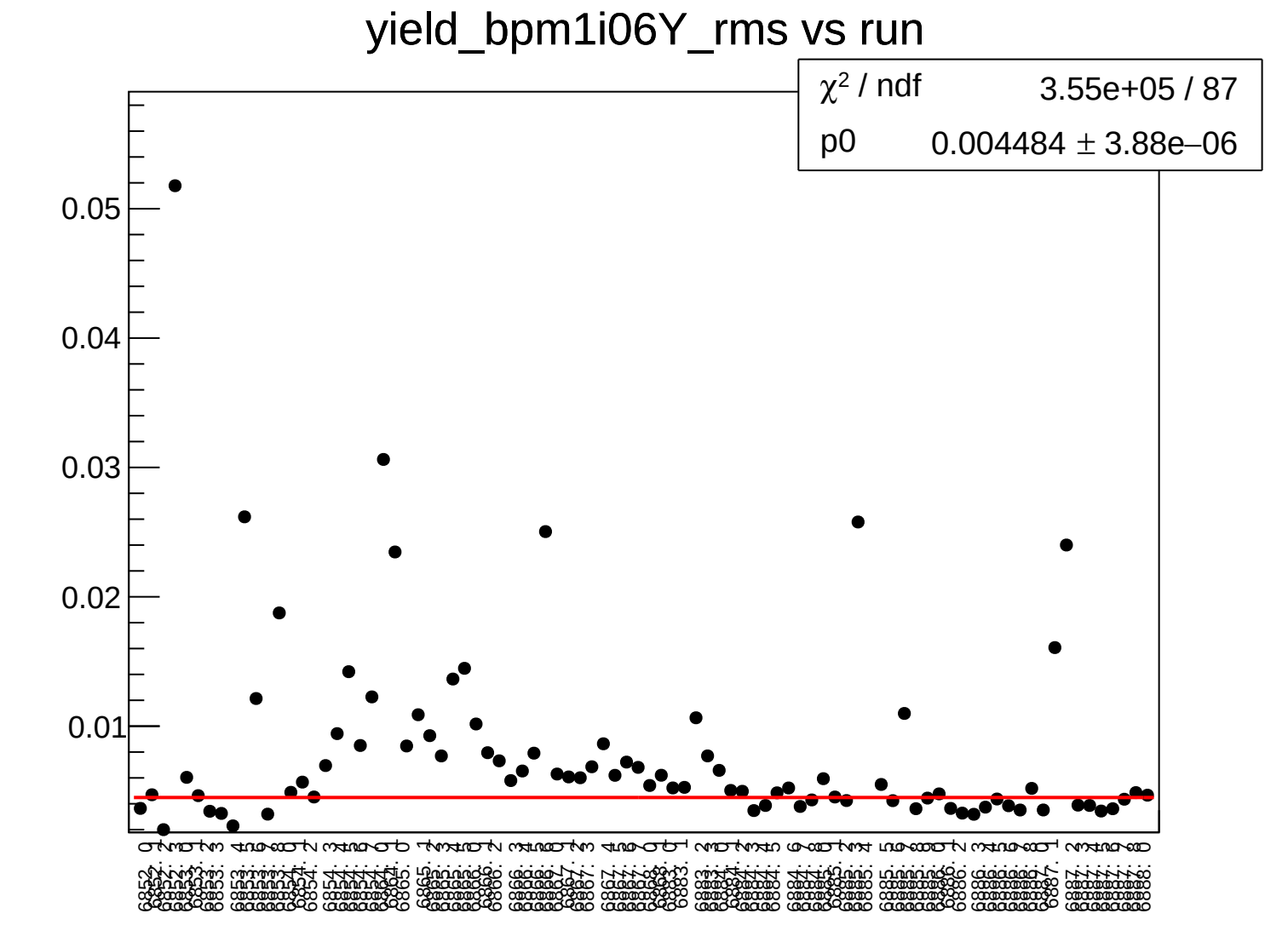

yield_bpm1i04Y_rms vs run
χ² / ndf 3.126e+05 / 87
p0 0.003496 ± 2.978e−06
0.03
0.025
0.02
0.015
0.01
0.005

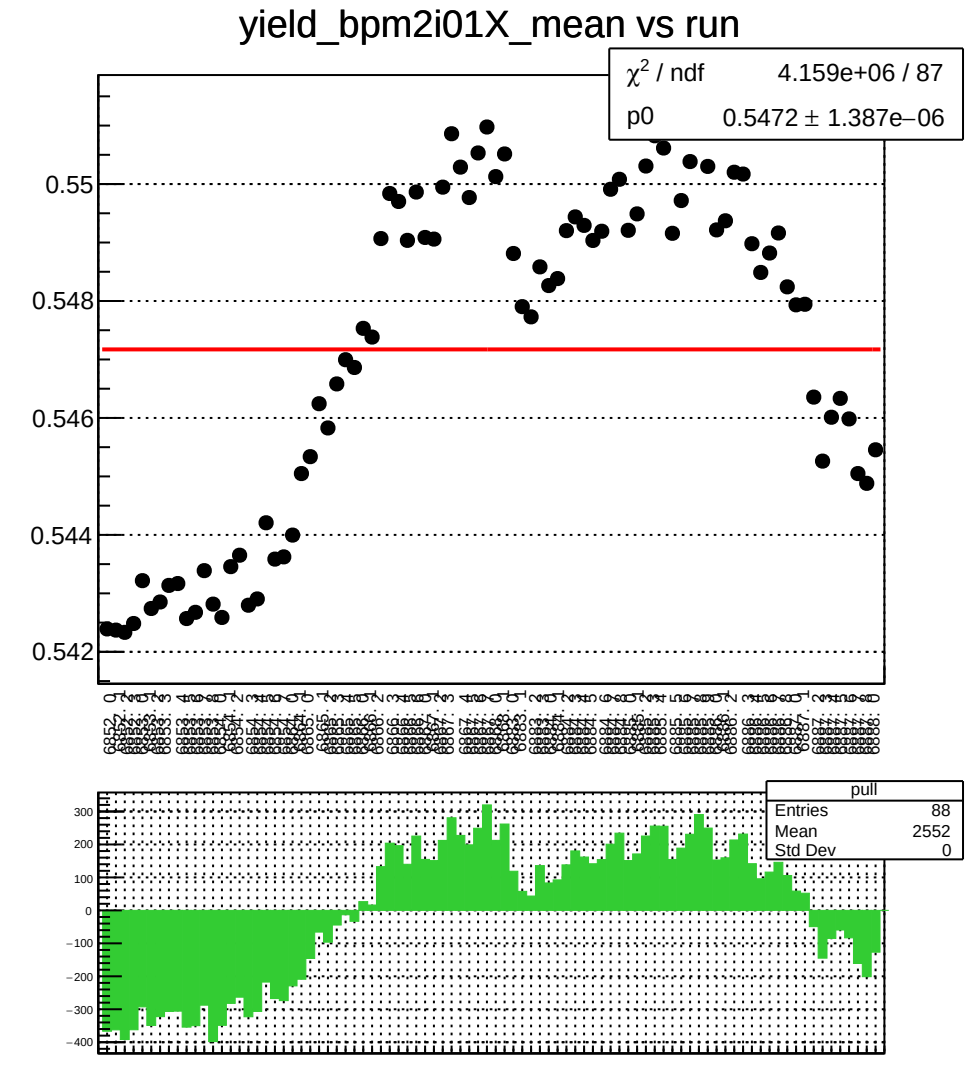

yield_bpm1i06X_mean vs run
χ² / ndf 2.949e+09 / 87
p0 0.6801 ± 1.076e−05
pull
Entries 88
Mean −70.31
Std Dev 0

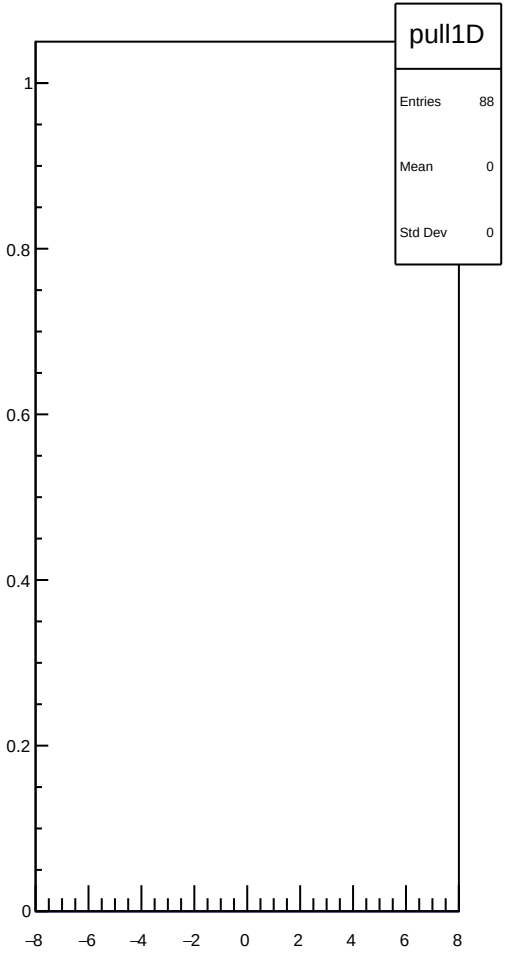

pull1D
Entries 88
Mean 0
Std Dev 0

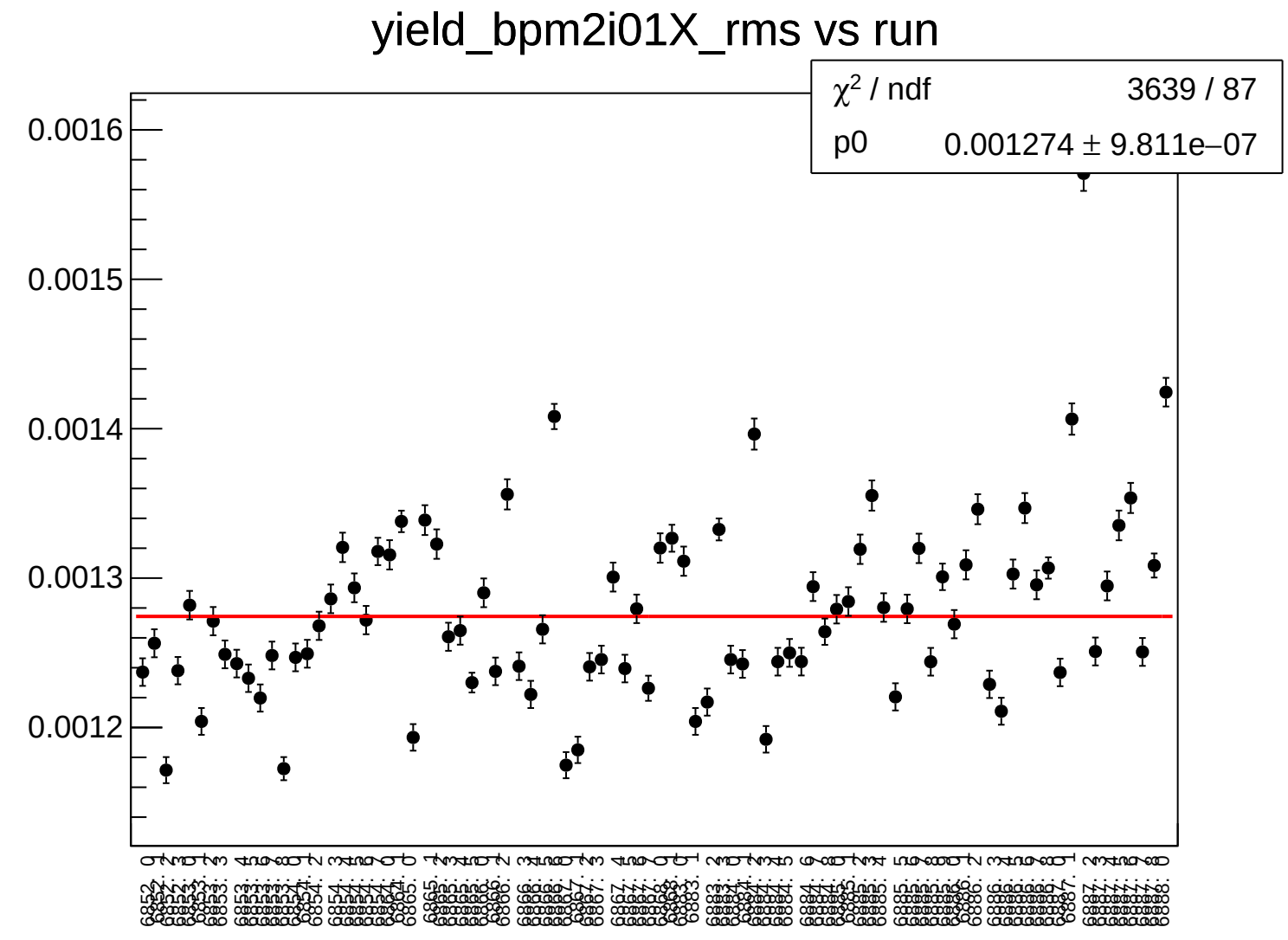

yield_bpm1i06X_rms vs run
χ² / ndf 1.119e+05 / 87
p0 0.009562 ± 7.61e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

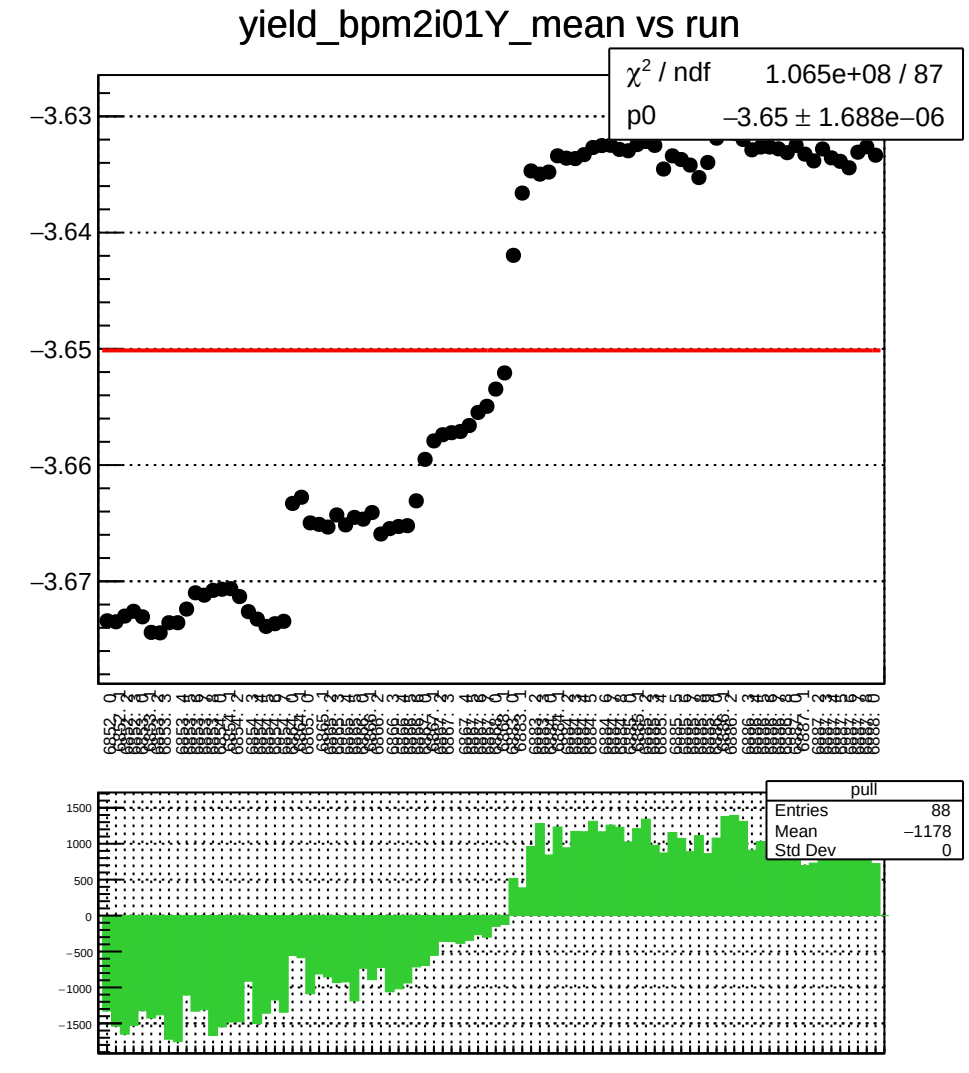

yield_bpm1i06Y_mean vs run
χ² / ndf 2.713e+10 / 87
p0 −0.5861 ± 5.487e−06
pull
Entries 88
Mean 142.4
Std Dev 0
pull1D
Entries 88
Mean 0
Std Dev 0

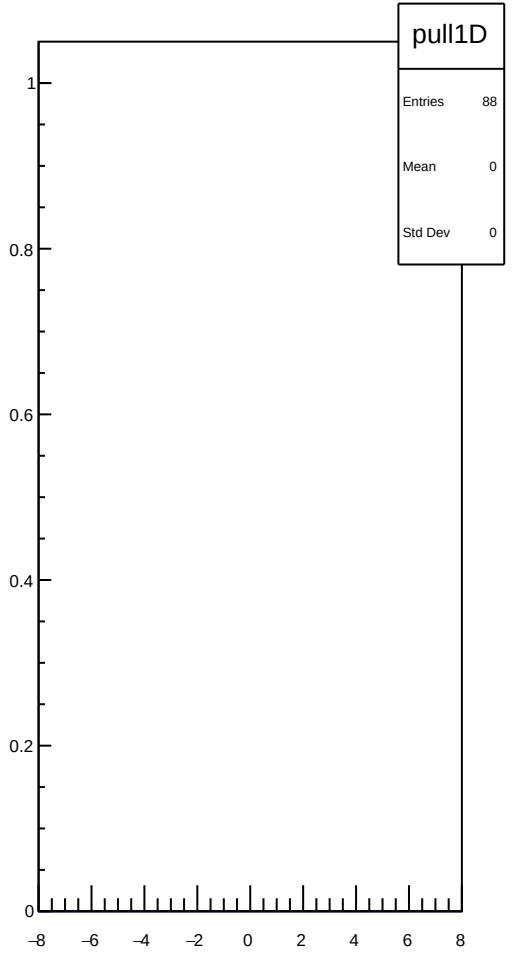

yield_bpm1i06Y_rms vs run
χ² / ndf 3.55e+05 / 87
p0 0.004484 ± 3.88e−06
0.05
0.04
0.03
0.02
0.01

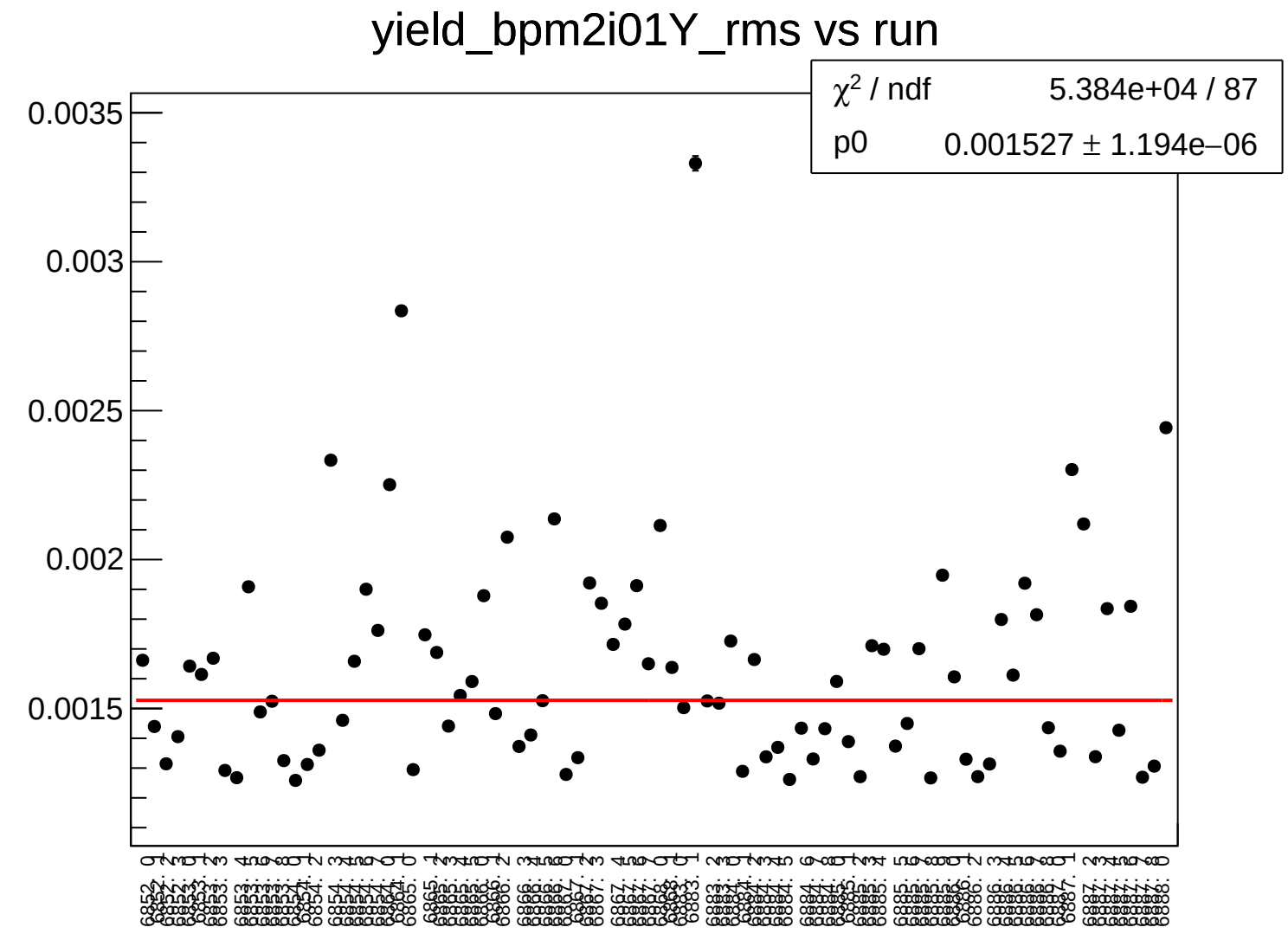

yield_bpm2i01X_mean vs run
χ² / ndf 4.159e+06 / 87
p0 0.5472 ± 1.387e−06
0.55
0.548
0.546
0.544
0.542
pull
Entries 88
Mean 2552
Std Dev 0
300
200
100
0
−100
−200
−300
−400

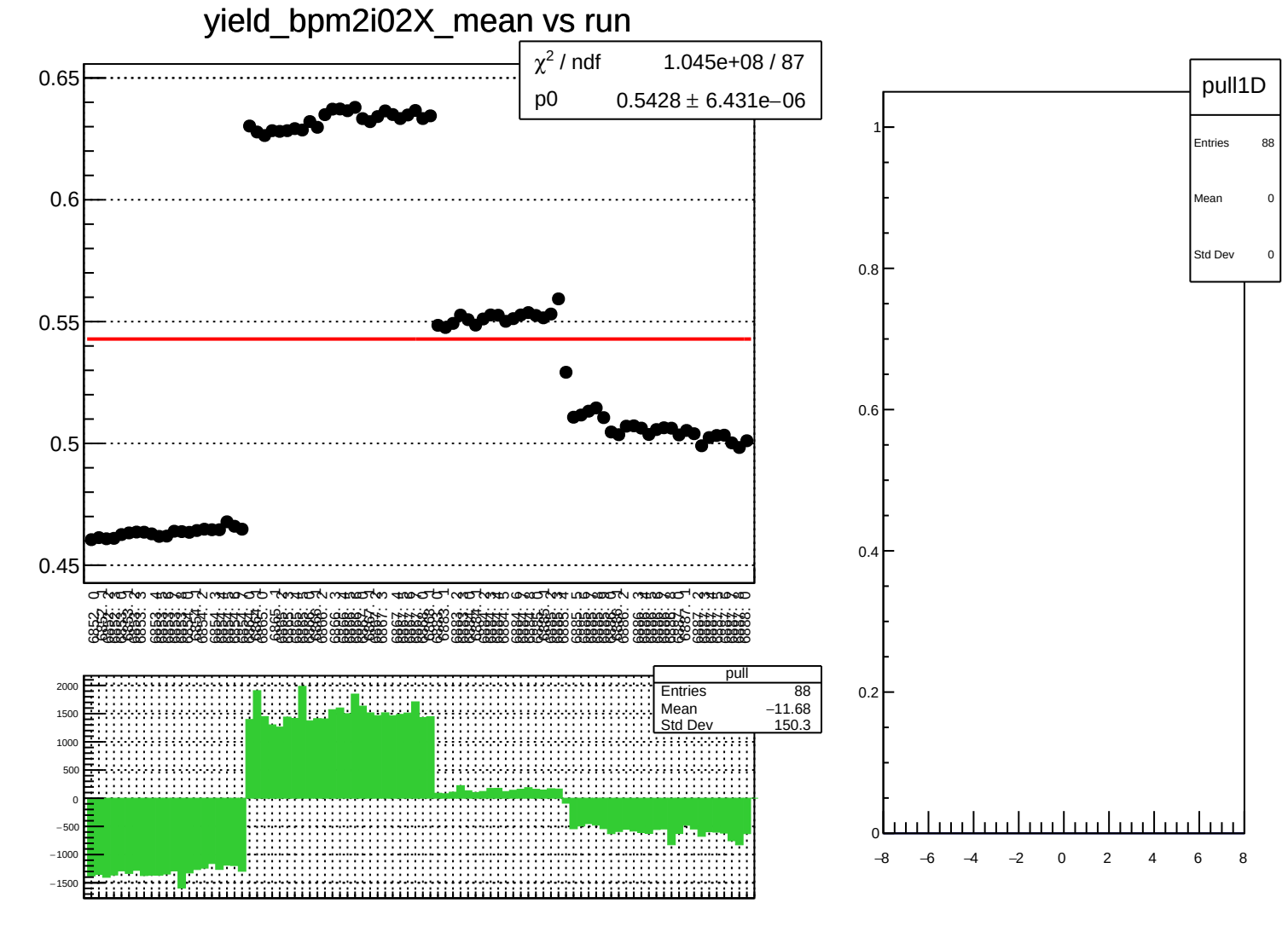

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

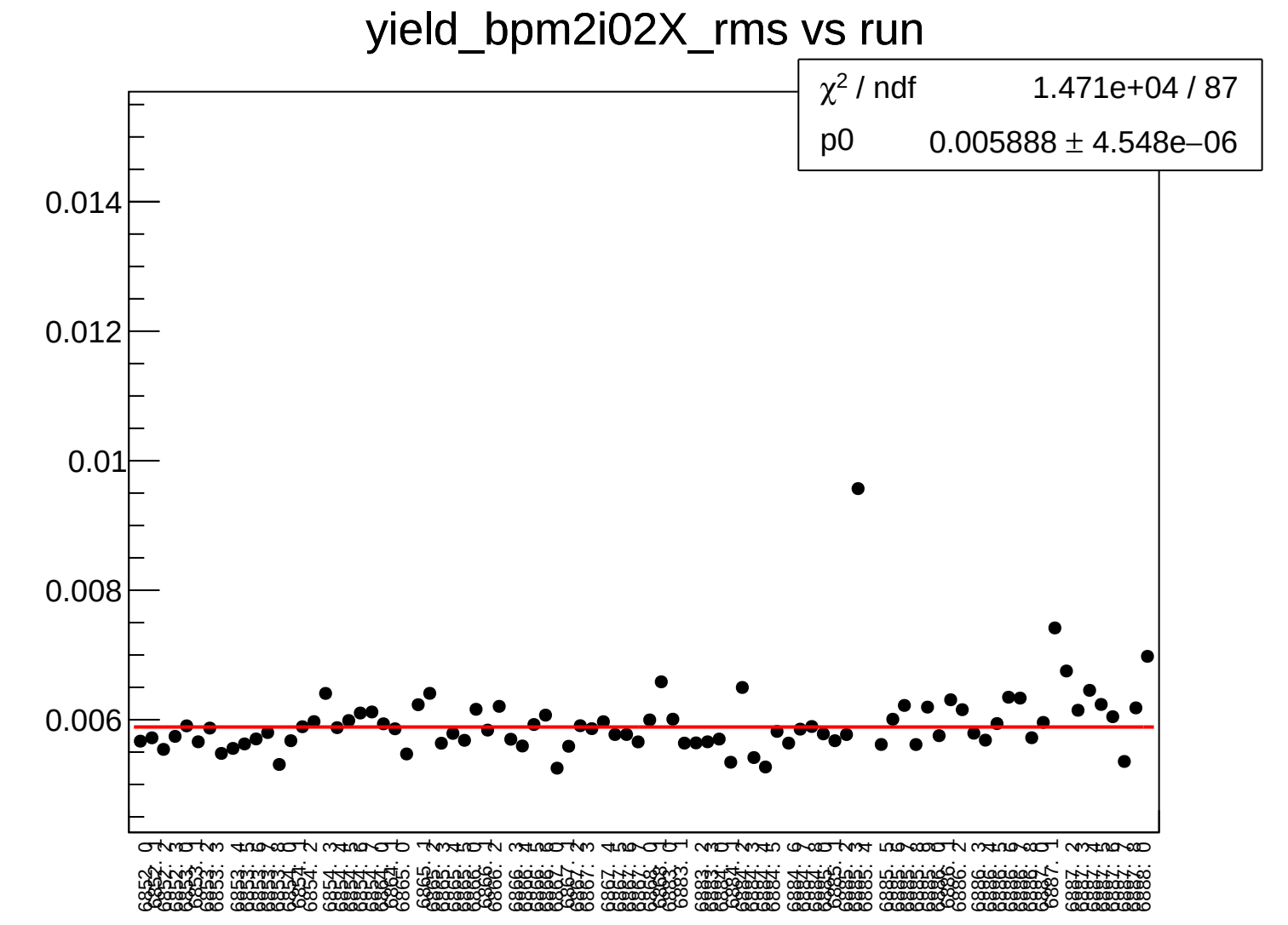

yield_bpm2i01X_rms vs run
χ² / ndf 3639 / 87
p0 0.001274 ± 9.811e−07
0.0016
0.0015
0.0014
0.0013
0.0012

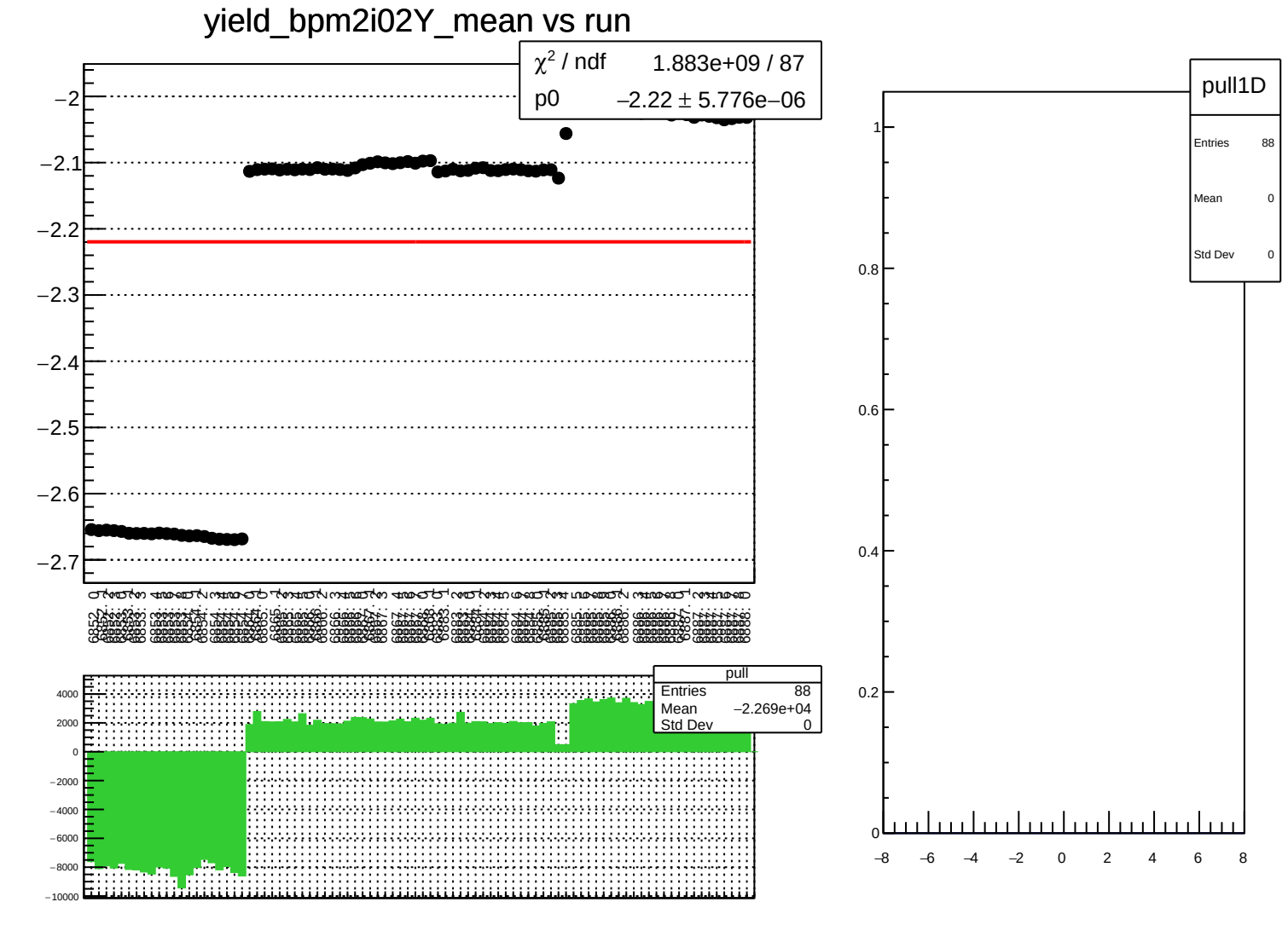

yield_bpm2i01Y_mean vs run
χ² / ndf 1.065e+08 / 87
p0 −3.65 ± 1.688e−06
−3.63
−3.64
−3.65
−3.66
−3.67
pull
Entries 88
Mean −1178
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

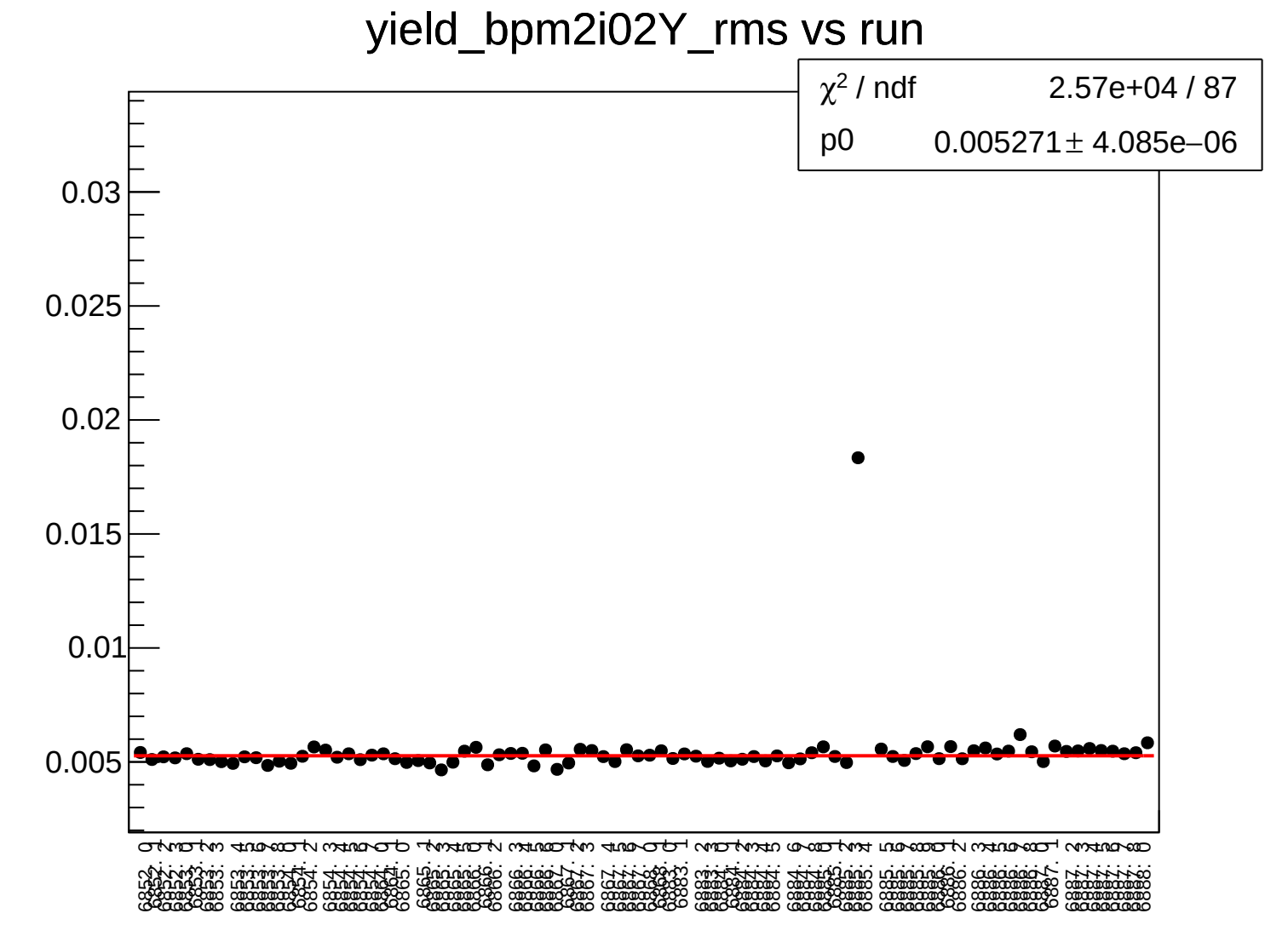

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

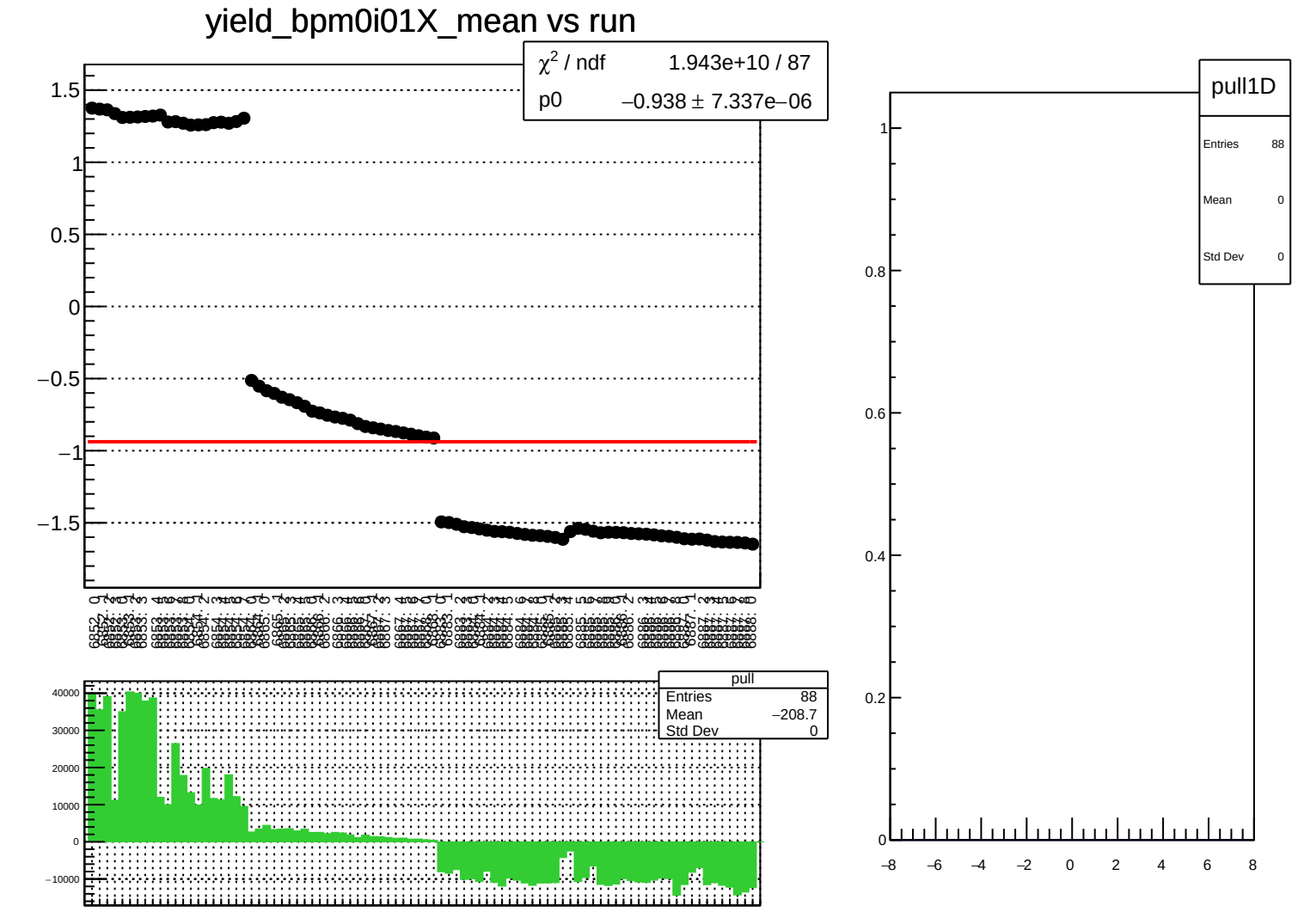

yield_bpm2i01Y_rms vs run
χ² / ndf 5.384e+04 / 87
p0 0.001527 ± 1.194e−06
0.0035
0.003
0.0025
0.002
0.0015

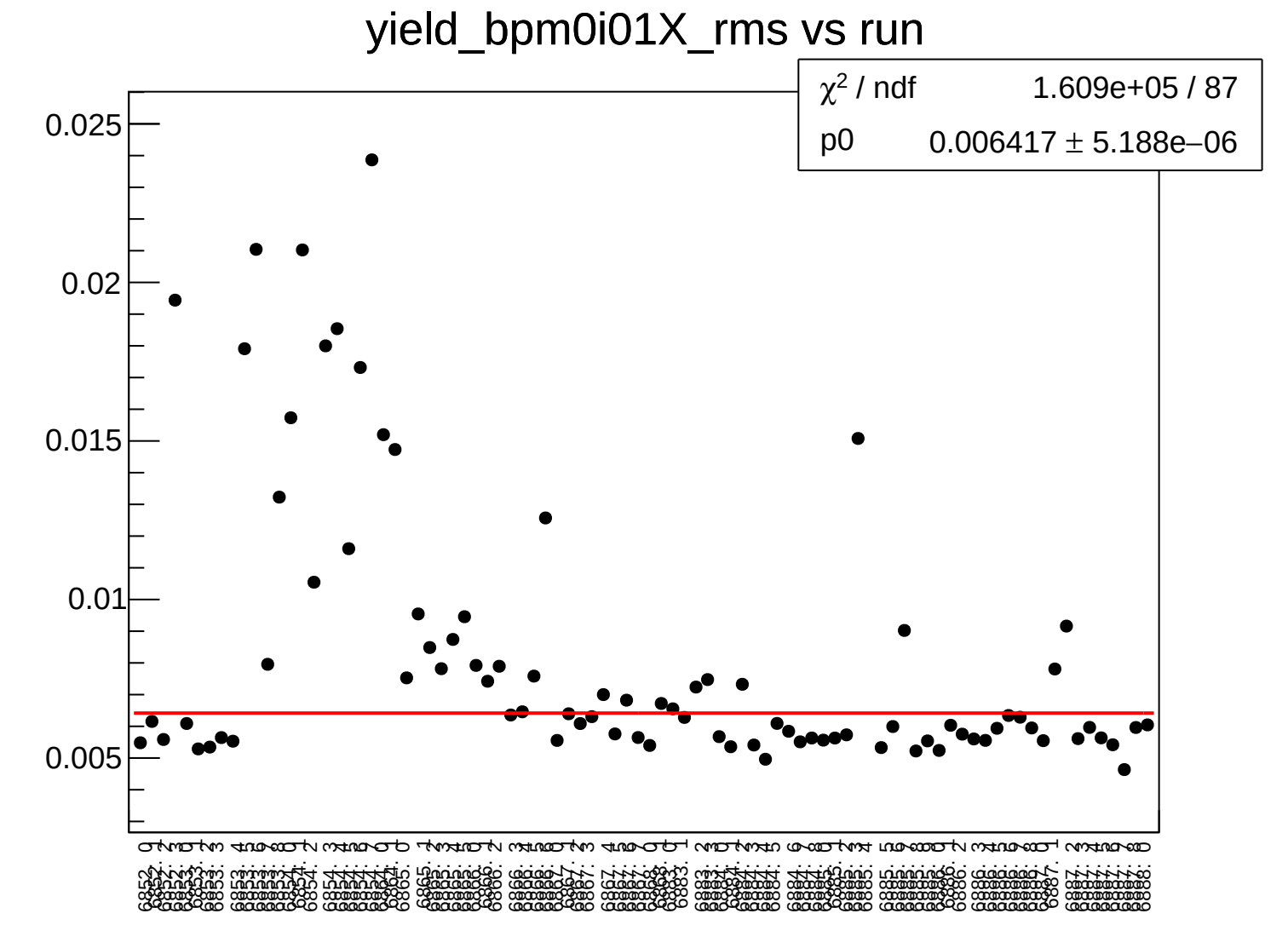

yield_bpm2i02X_mean vs run
χ² / ndf 1.045e+08 / 87
p0 0.5428 ± 6.431e−06
0.65
0.6
0.55
0.5
0.45
pull
Entries 88
Mean −11.68
Std Dev 150.3
2000
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

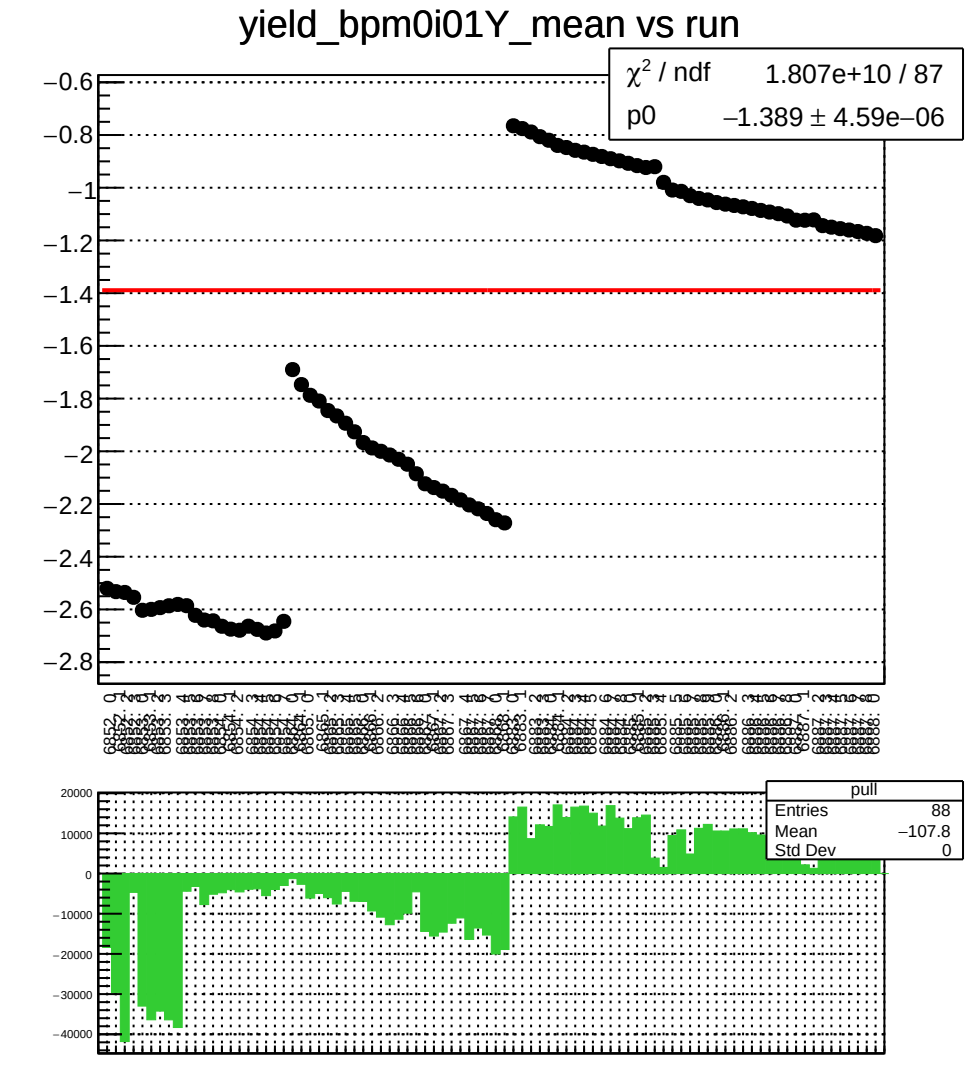

yield_bpm2i02X_rms vs run
χ² / ndf 1.471e+04 / 87
p0 0.005888 ± 4.548e−06
0.014
0.012
0.01
0.008
0.006

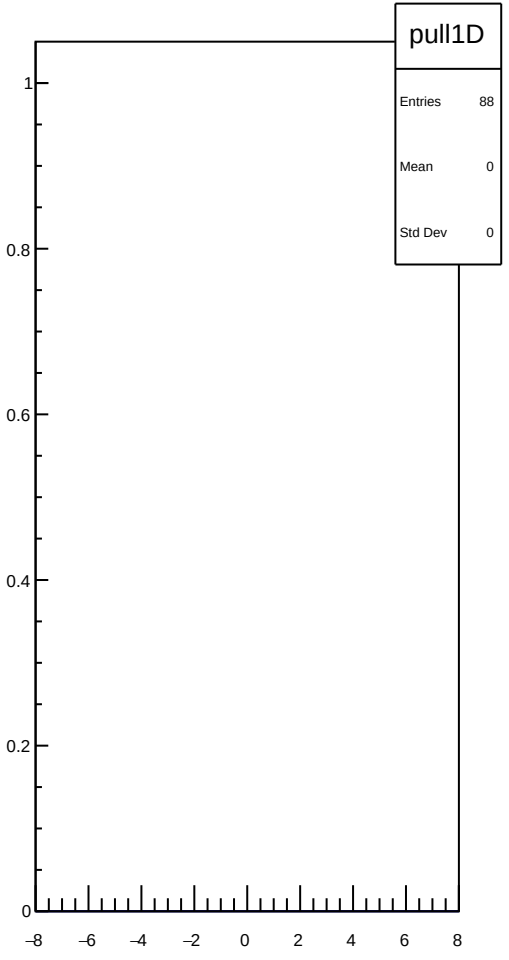

yield_bpm2i02Y_mean vs run
χ² / ndf 1.883e+09 / 87
p0 −2.22 ± 5.776e−06
pull
Entries 88
Mean −2.269e+04
Std Dev 0
pull1D
Entries 88
Mean 0
Std Dev 0

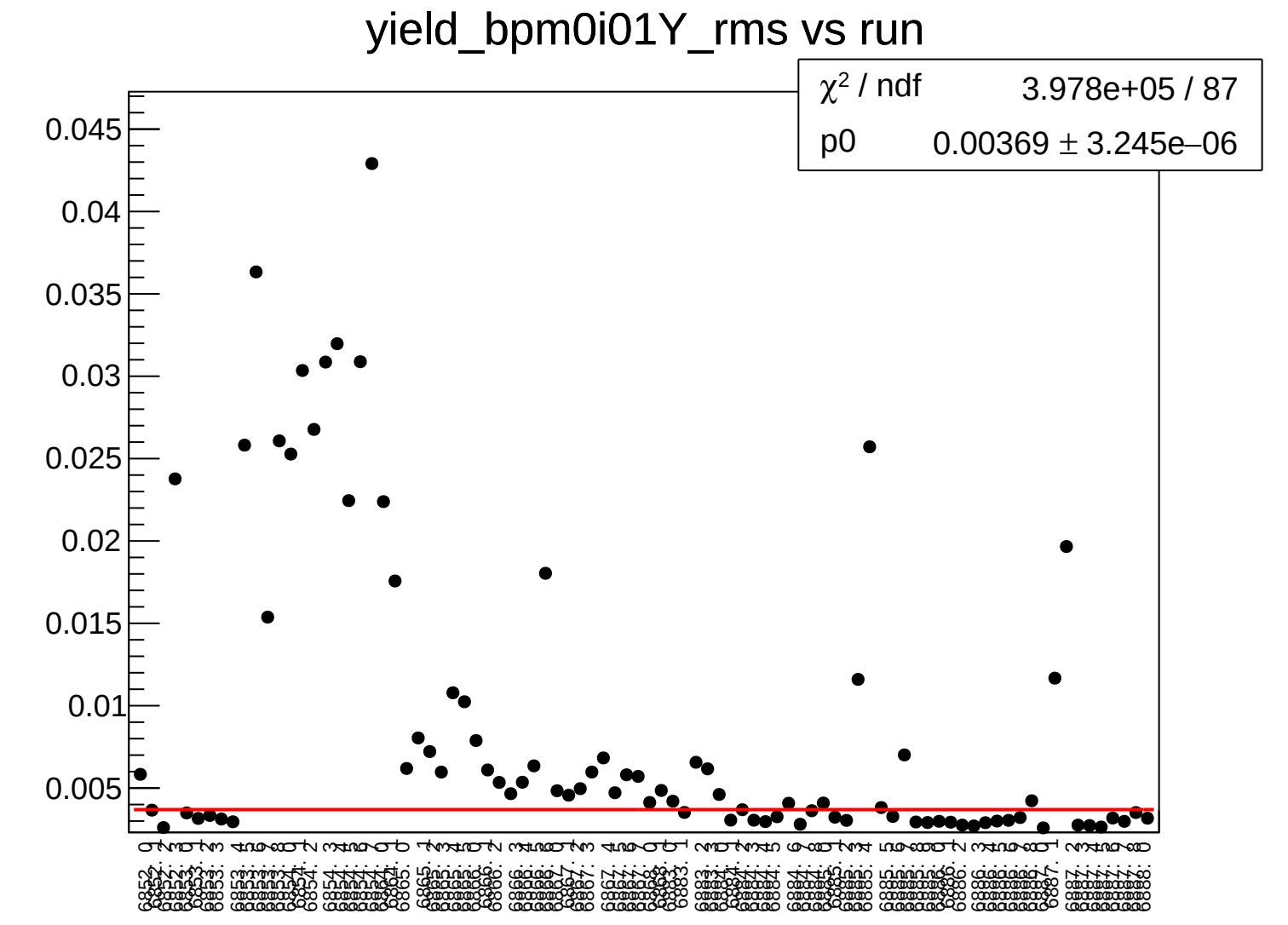

yield_bpm2i02Y_rms vs run
χ² / ndf 2.57e+04 / 87
p0 0.005271 ± 4.085e−06
0.03
0.025
0.02
0.015
0.01
0.005

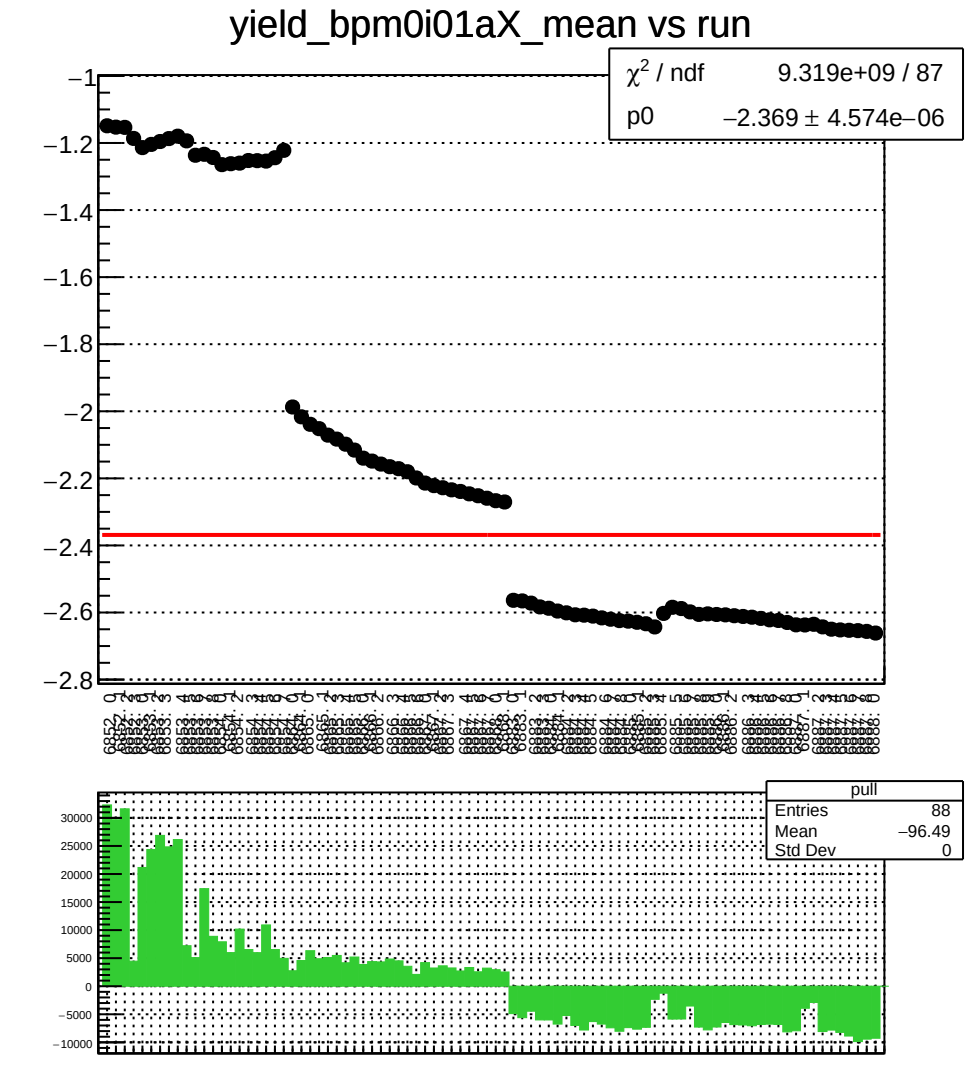

yield_bpm0i01X_mean vs run
χ² / ndf 1.943e+10 / 87
p0 −0.938 ± 7.337e−06
pull
Entries 88
Mean −208.7
Std Dev 0
pull1D
Entries 88
Mean 0
Std Dev 0

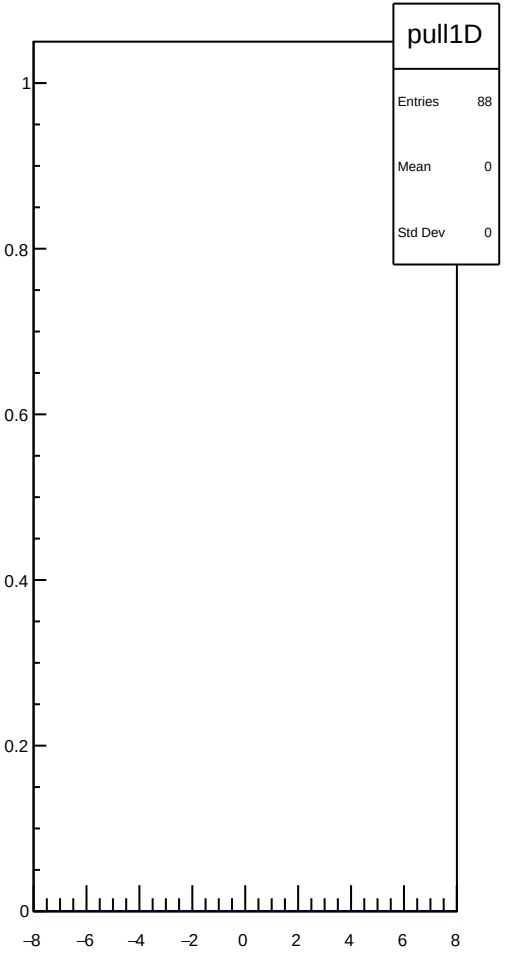

yield_bpm0i01X_rms vs run
χ² / ndf 1.609e+05 / 87
p0 0.006417 ± 5.188e−06
0.025
0.02
0.015
0.01
0.005

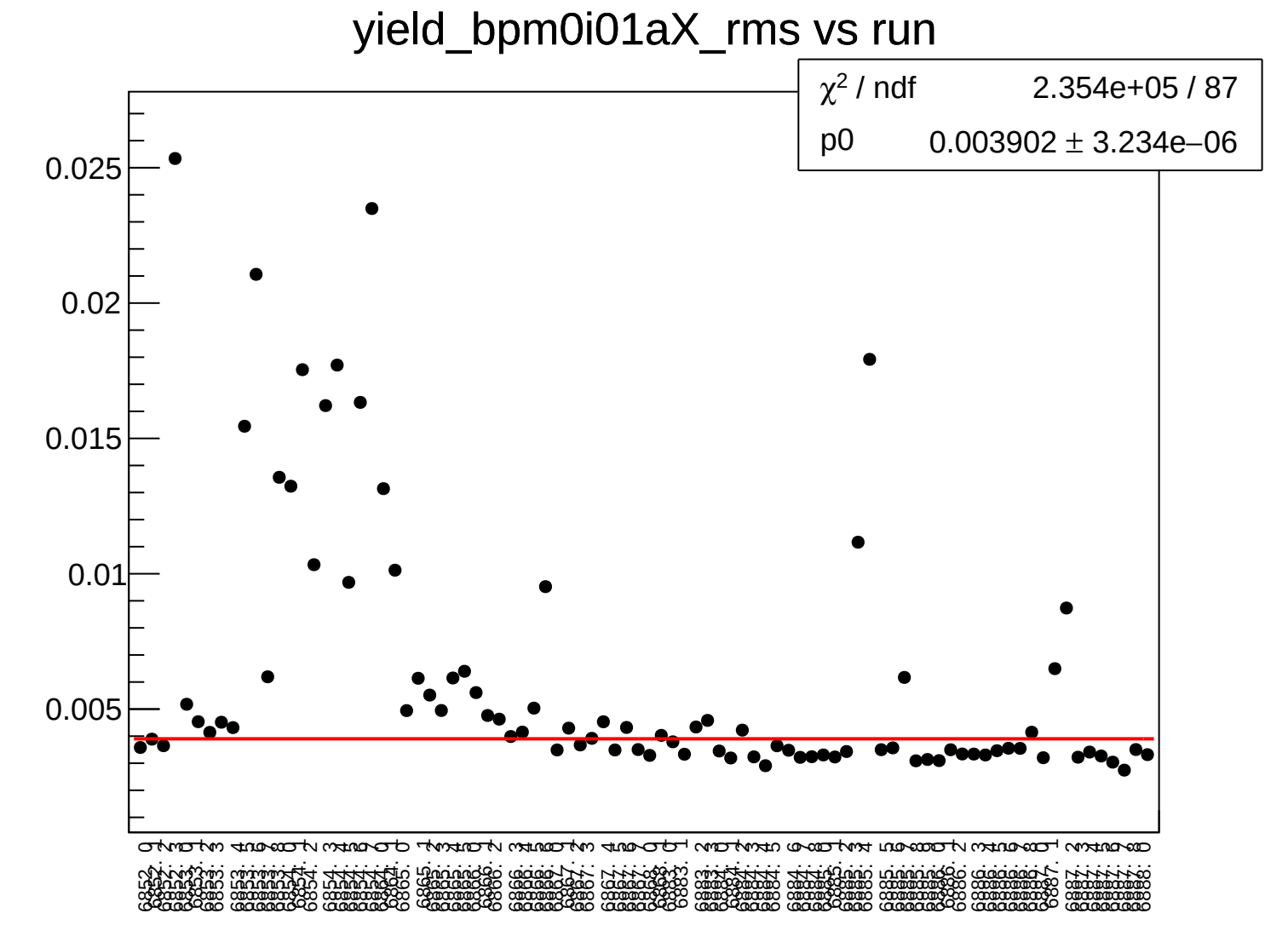

yield_bpm0i01Y_mean vs run
χ² / ndf 1.807e+10 / 87
p0 −1.389 ± 4.59e−06
pull
Entries 88
Mean −107.8
Std Dev 0

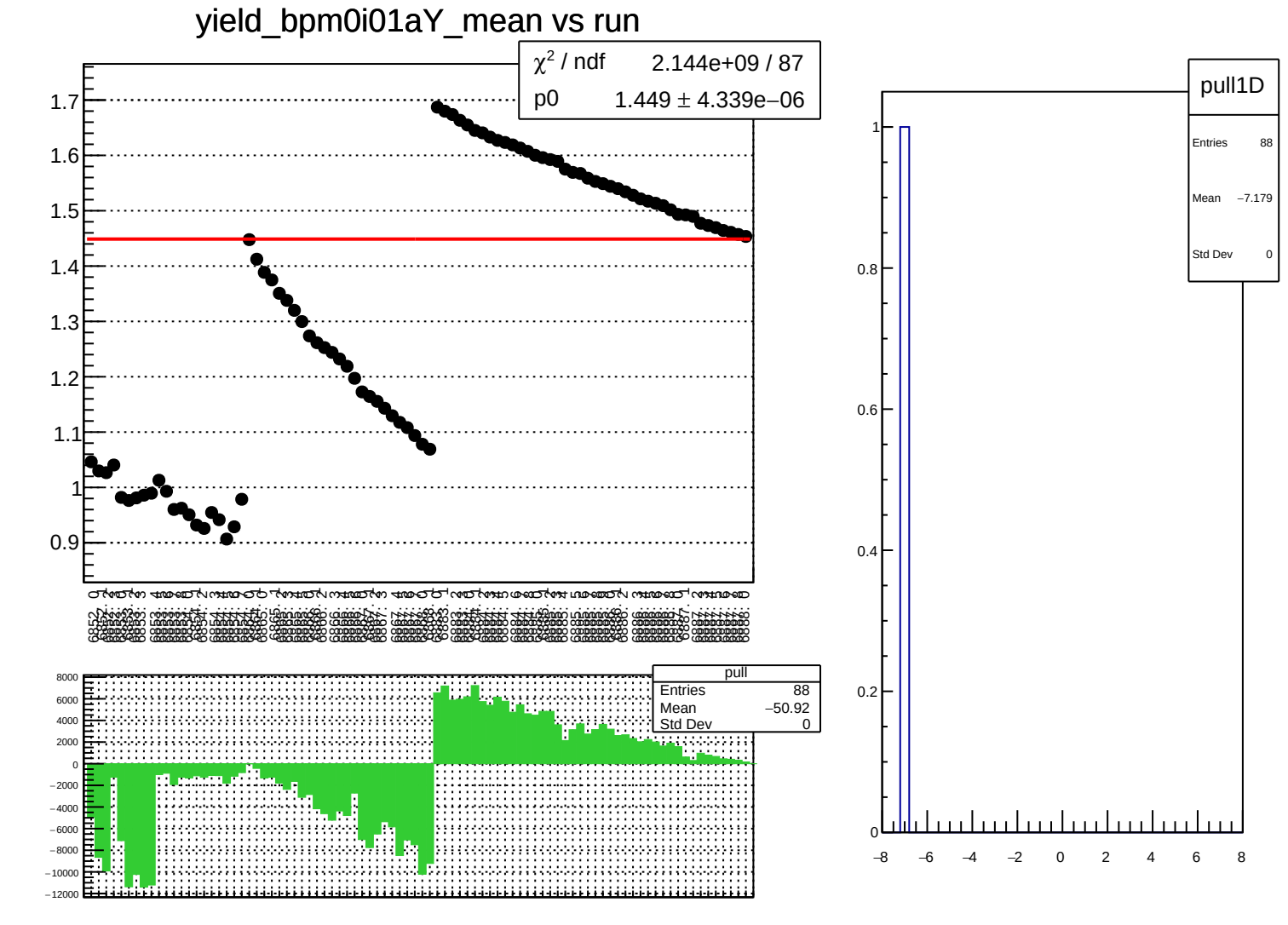

pull1D
Entries 88
Mean 0
Std Dev 0

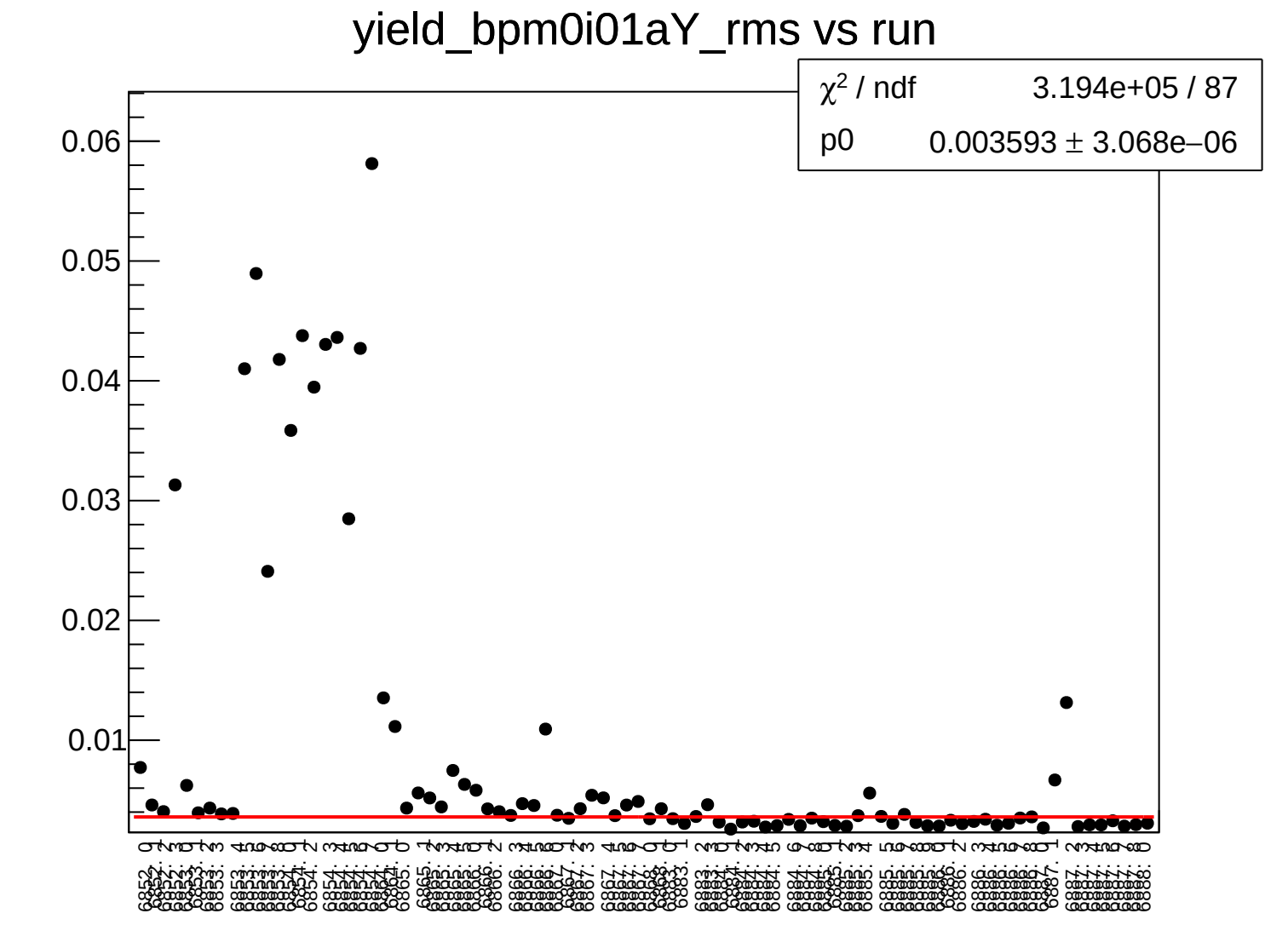

yield_bpm0i01Y_rms vs run
χ² / ndf 3.978e+05 / 87
p0 0.00369 ± 3.245e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

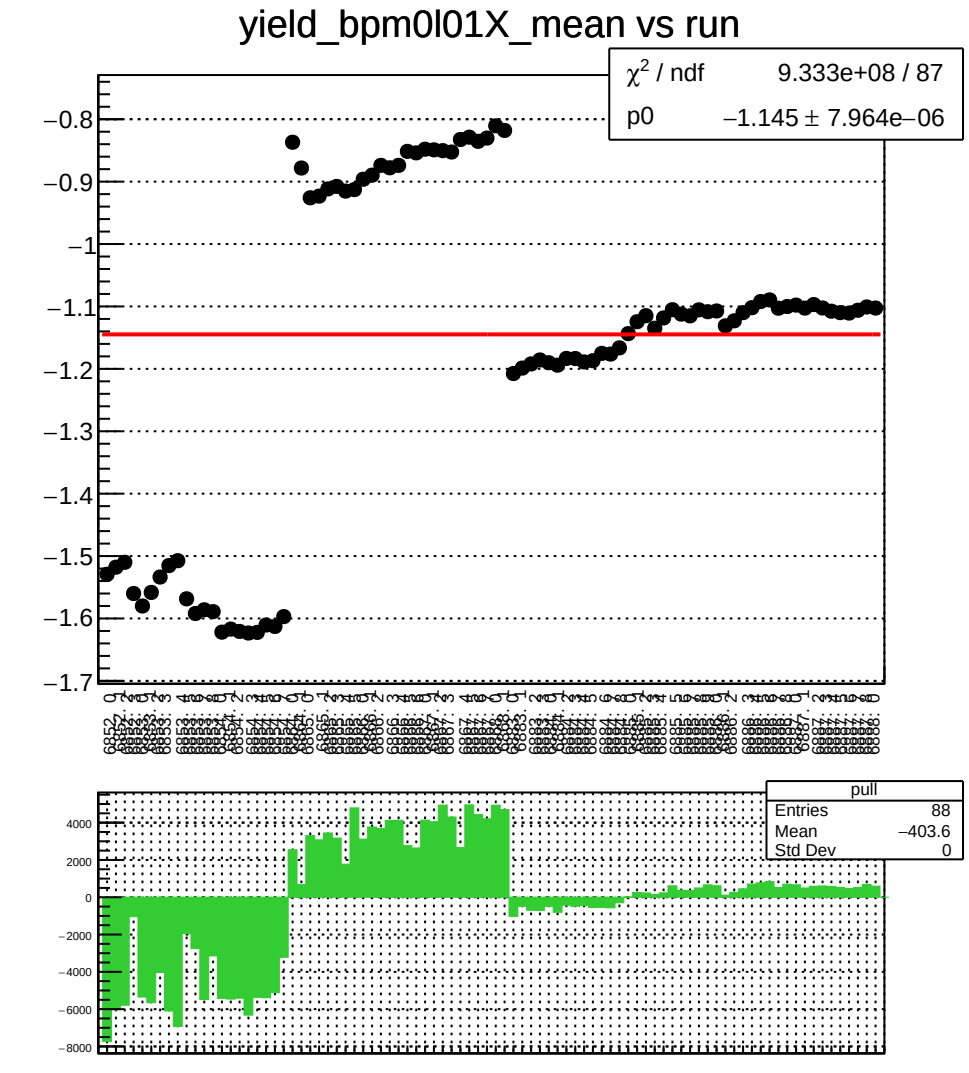

yield_bpm0i01aX_mean vs run
χ² / ndf 9.319e+09 / 87
p0 −2.369 ± 4.574e−06
pull
Entries 88
Mean −96.49
Std Dev 0

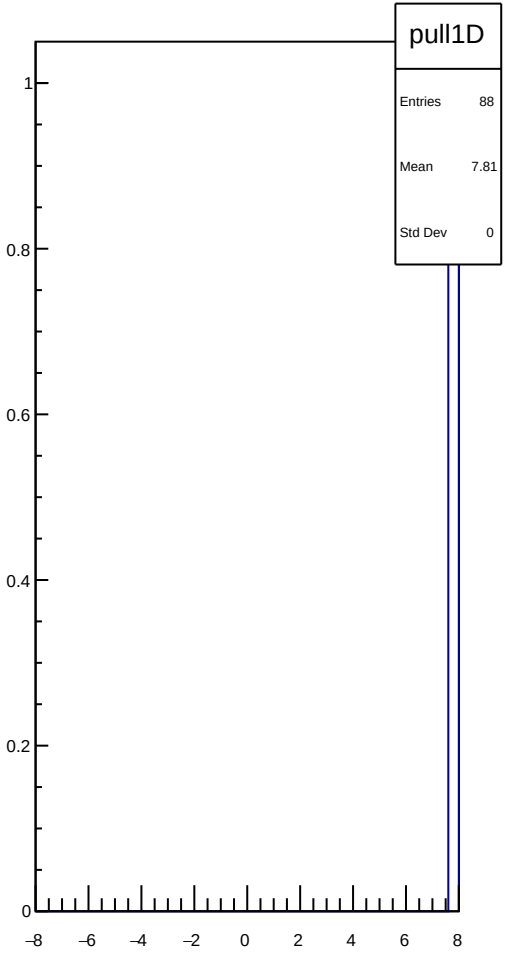

pull1D
Entries 88
Mean 0
Std Dev 0

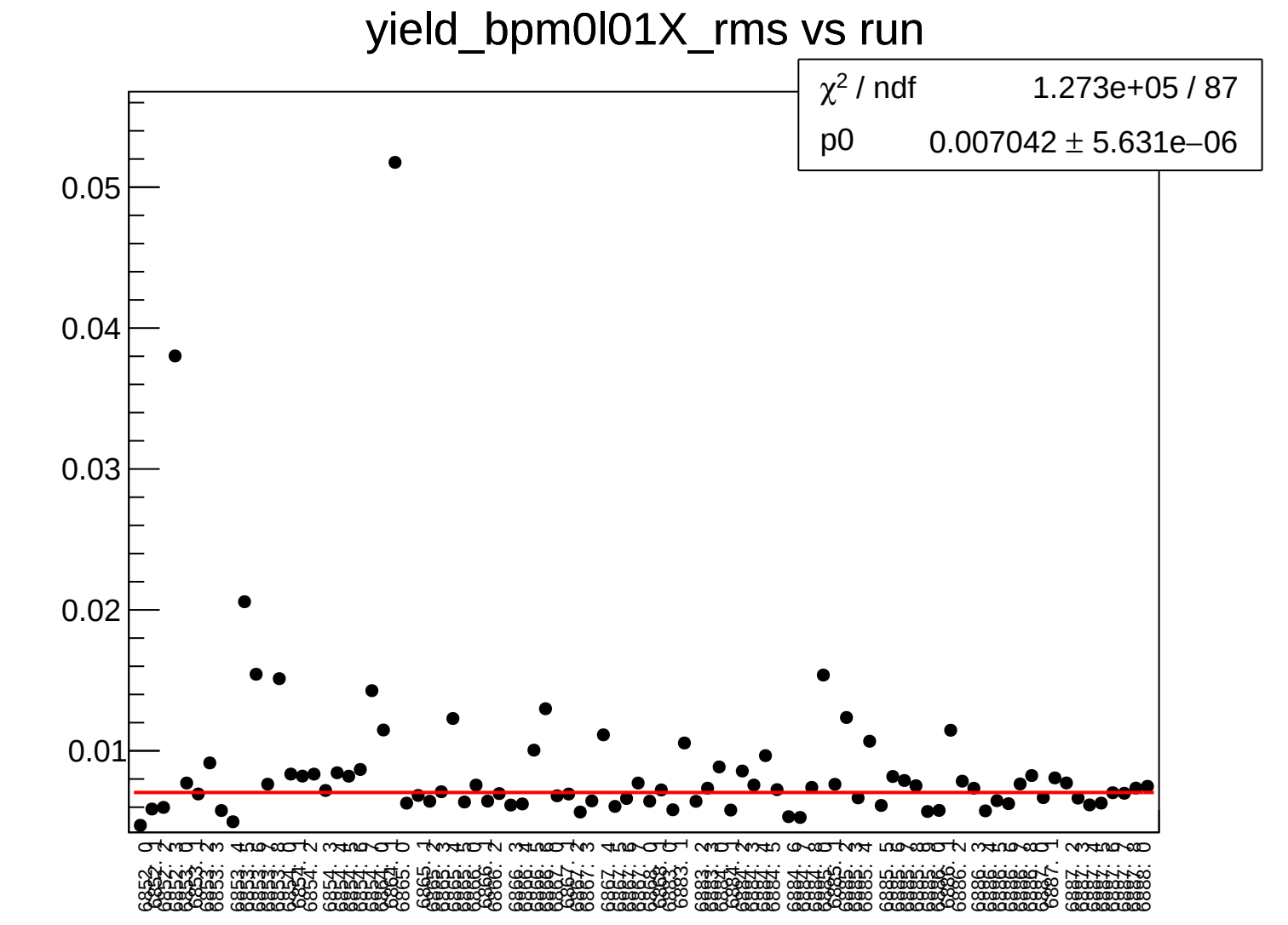

yield_bpm0i01aX_rms vs run
χ² / ndf 2.354e+05 / 87
p0 0.003902 ± 3.234e−06
0.025
0.02
0.015
0.01
0.005

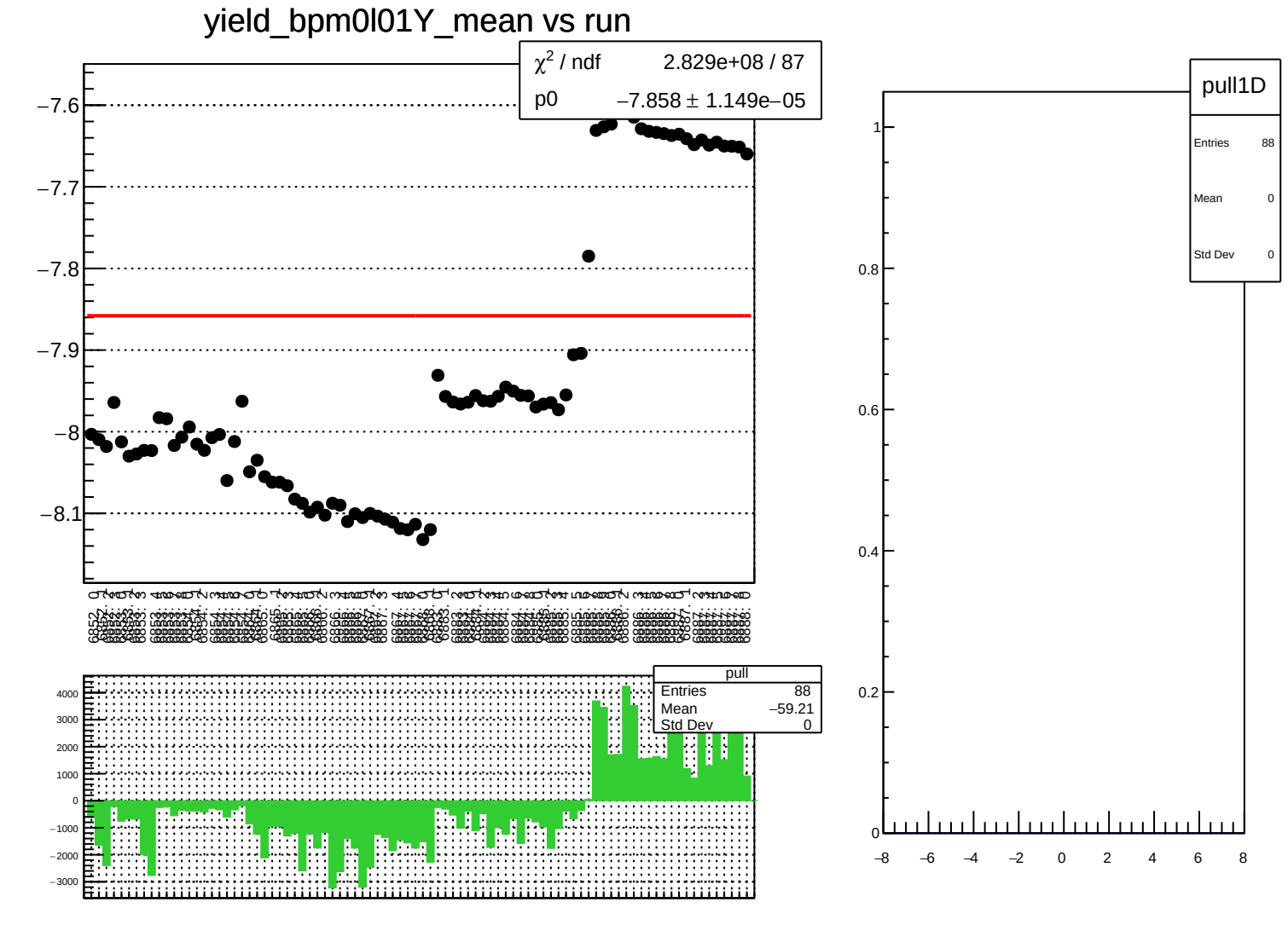

yield_bpm0i01aY_mean vs run
χ² / ndf 2.144e+09 / 87
p0 1.449 ± 4.339e−06
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
pull
Entries 88
Mean −50.92
Std Dev 0
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
pull1D
Entries 88
Mean −7.179
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

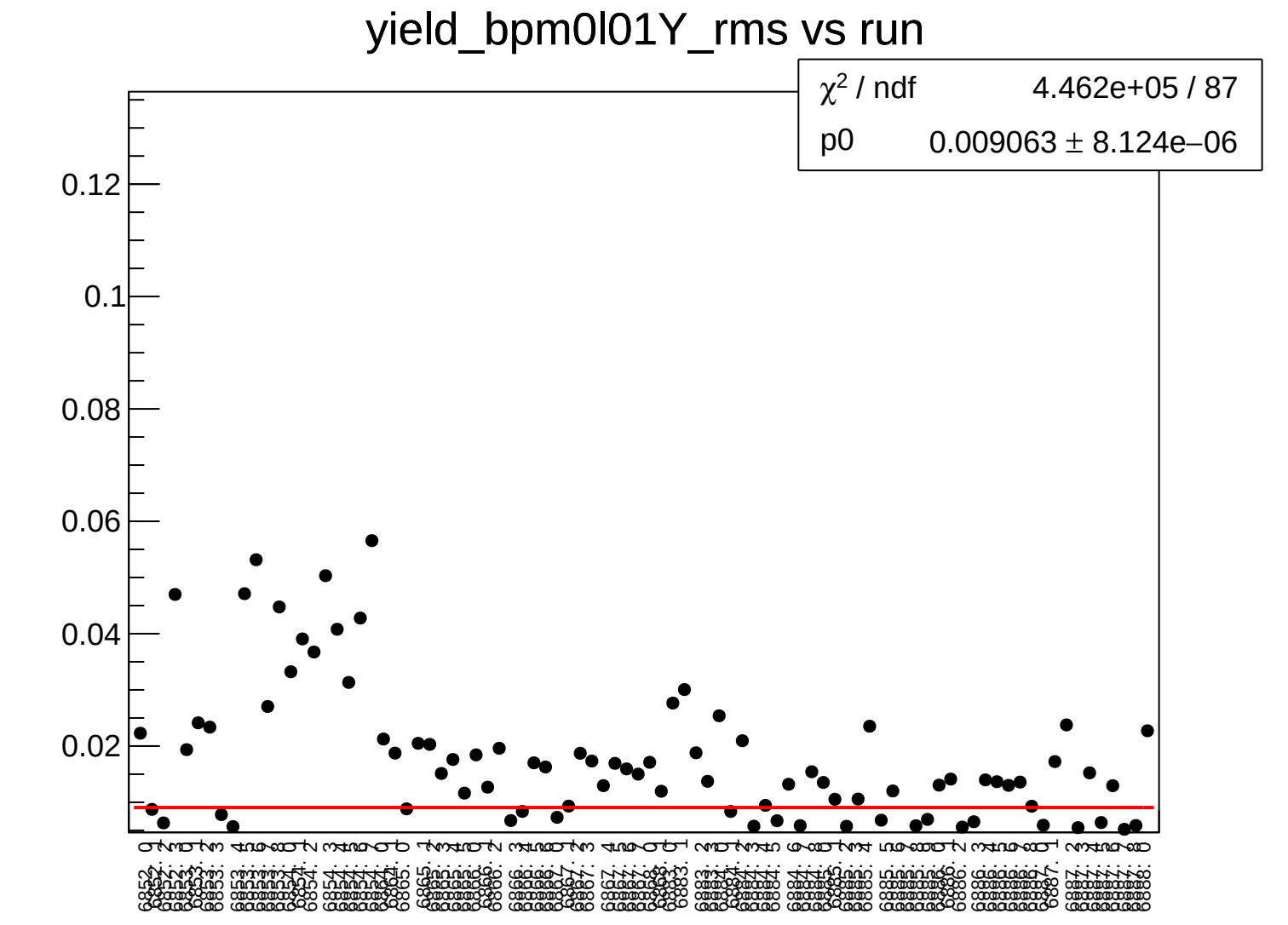

yield_bpm0i01aY_rms vs run
χ² / ndf 3.194e+05 / 87
p0 0.003593 ± 3.068e−06
0.06
0.05
0.04
0.03
0.02
0.01

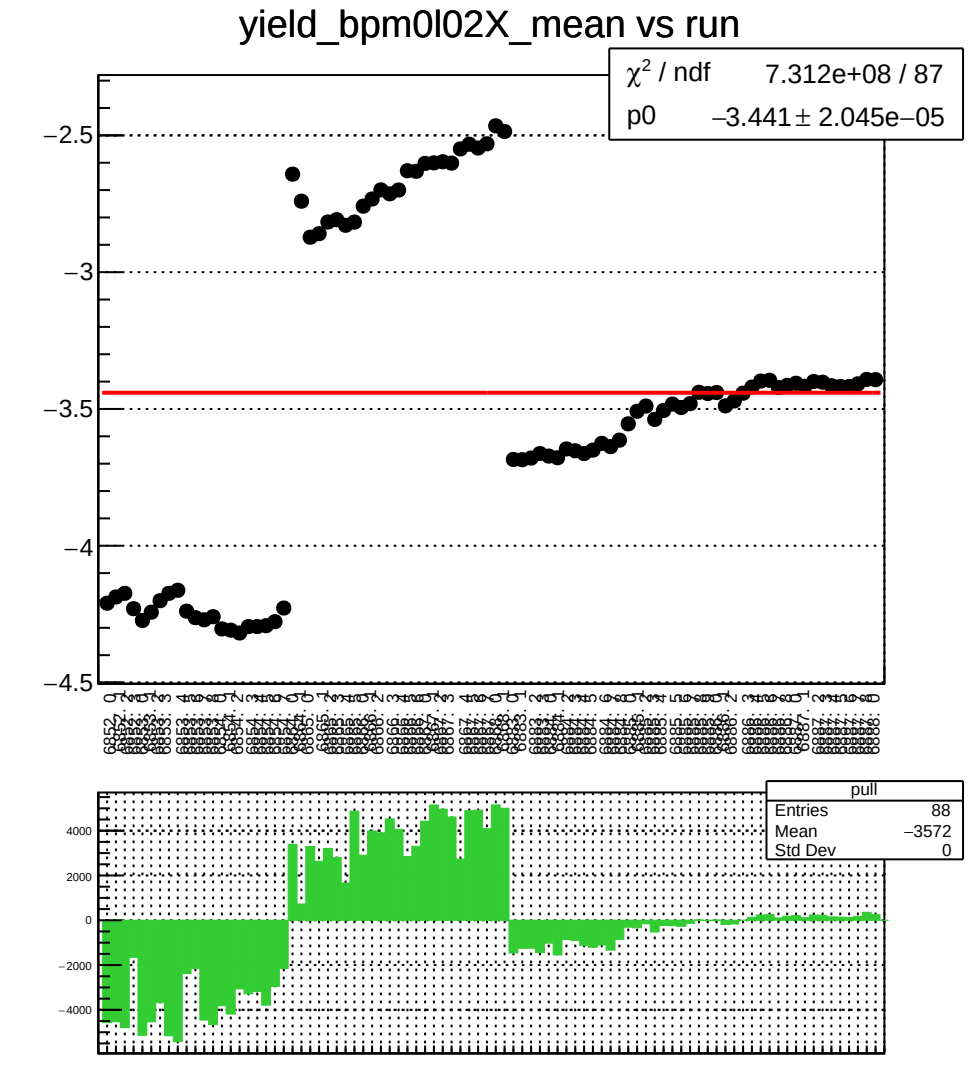

yield_bpm0l01X_mean vs run
χ² / ndf 9.333e+08 / 87
p0 −1.145 ± 7.964e−06
pull
Entries 88
Mean −403.6
Std Dev 0

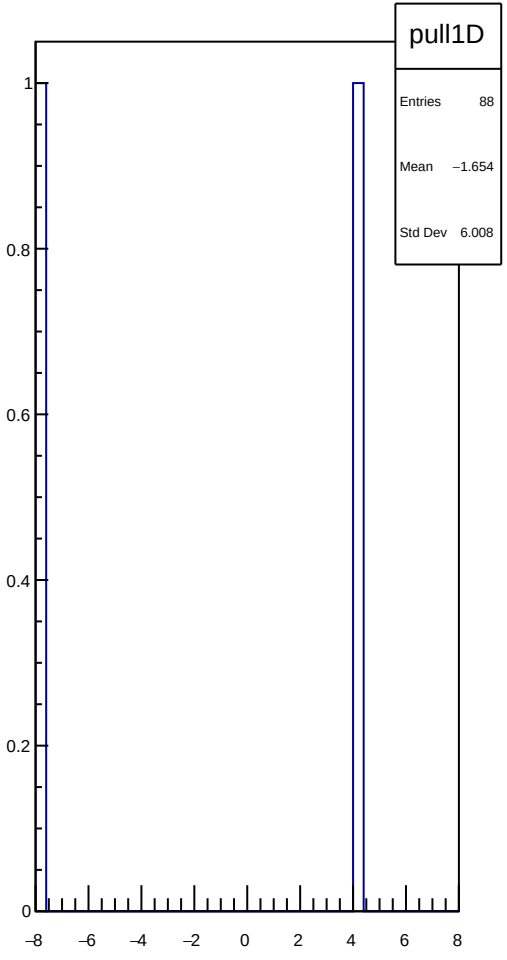

pull1D
Entries 88
Mean 7.81
Std Dev 0

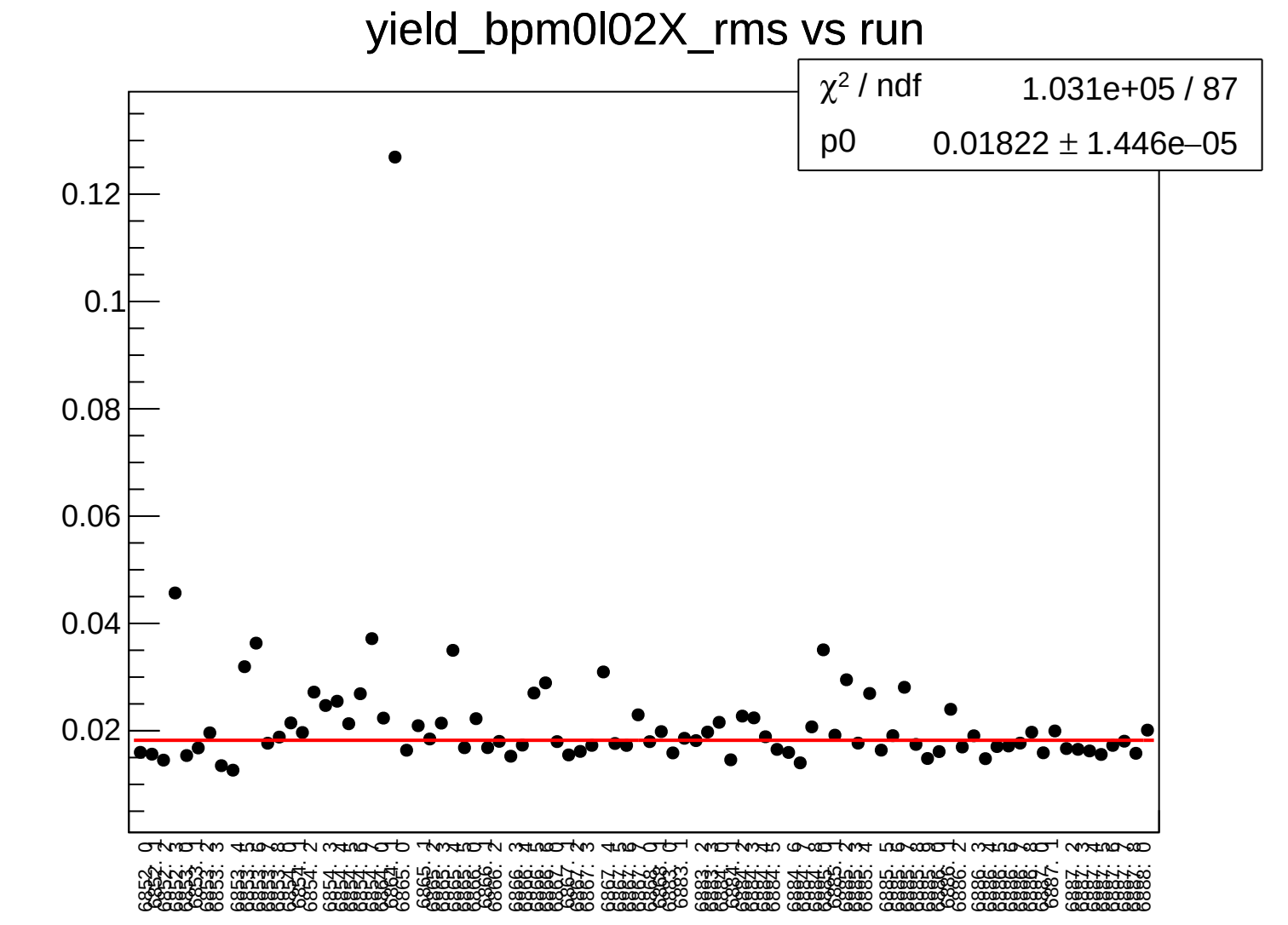

yield_bpm0l01X_rms vs run
χ² / ndf 1.273e+05 / 87
p0 0.007042 ± 5.631e−06
0.05
0.04
0.03
0.02
0.01

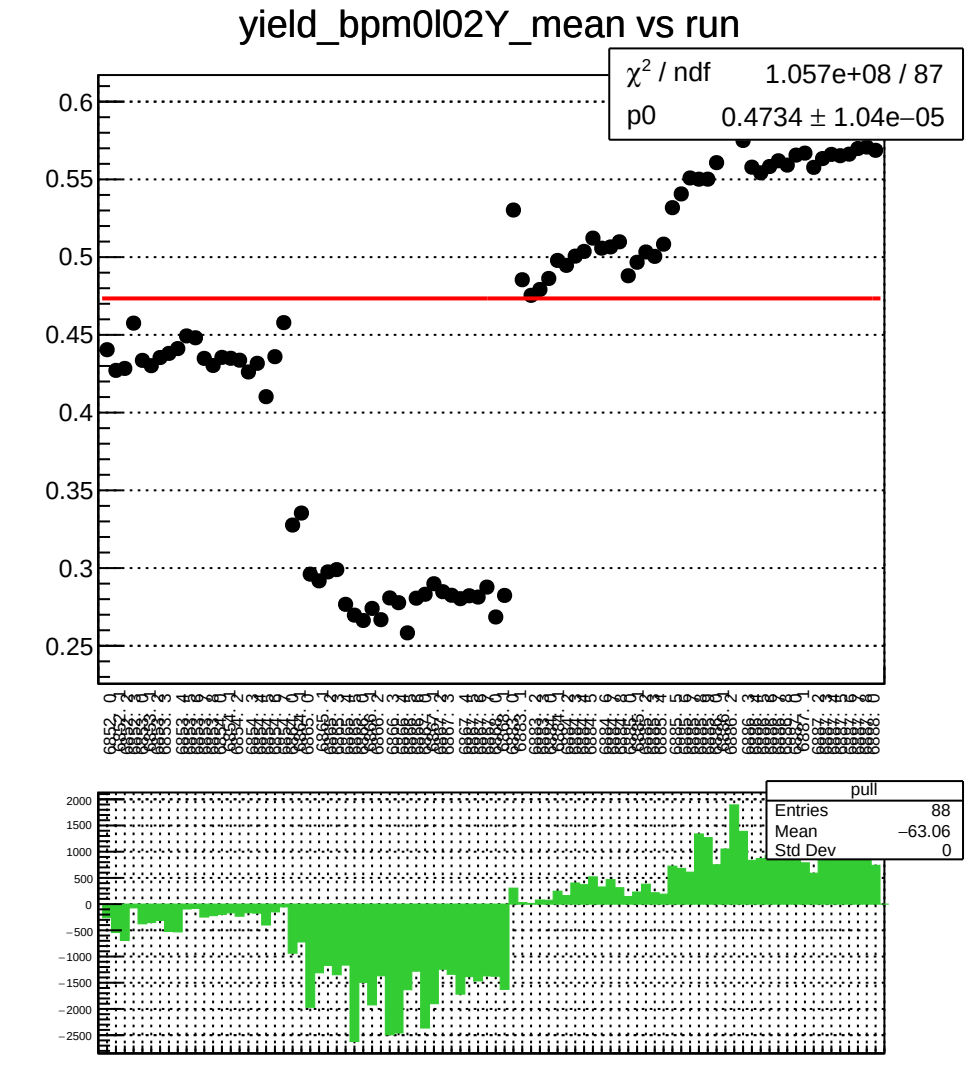

yield_bpm0l01Y_mean vs run
χ² / ndf 2.829e+08 / 87
p0 −7.858 ± 1.149e−05
−7.6
−7.7
−7.8
−7.9
−8
−8.1
pull
Entries 88
Mean −59.21
Std Dev 0
4000
3000
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

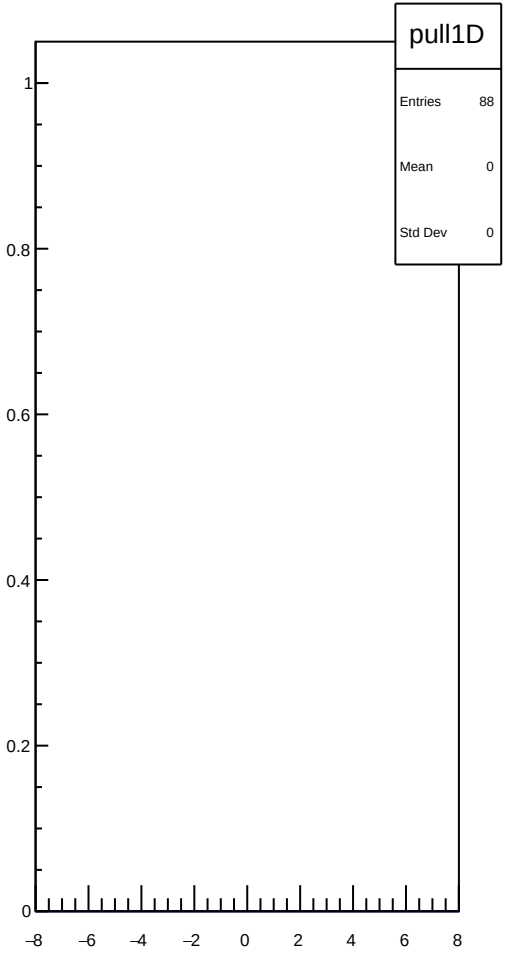

yield_bpm0l01Y_rms vs run
χ² / ndf 4.462e+05 / 87
p0 0.009063 ± 8.124e−06
0.12
0.1
0.08
0.06
0.04
0.02

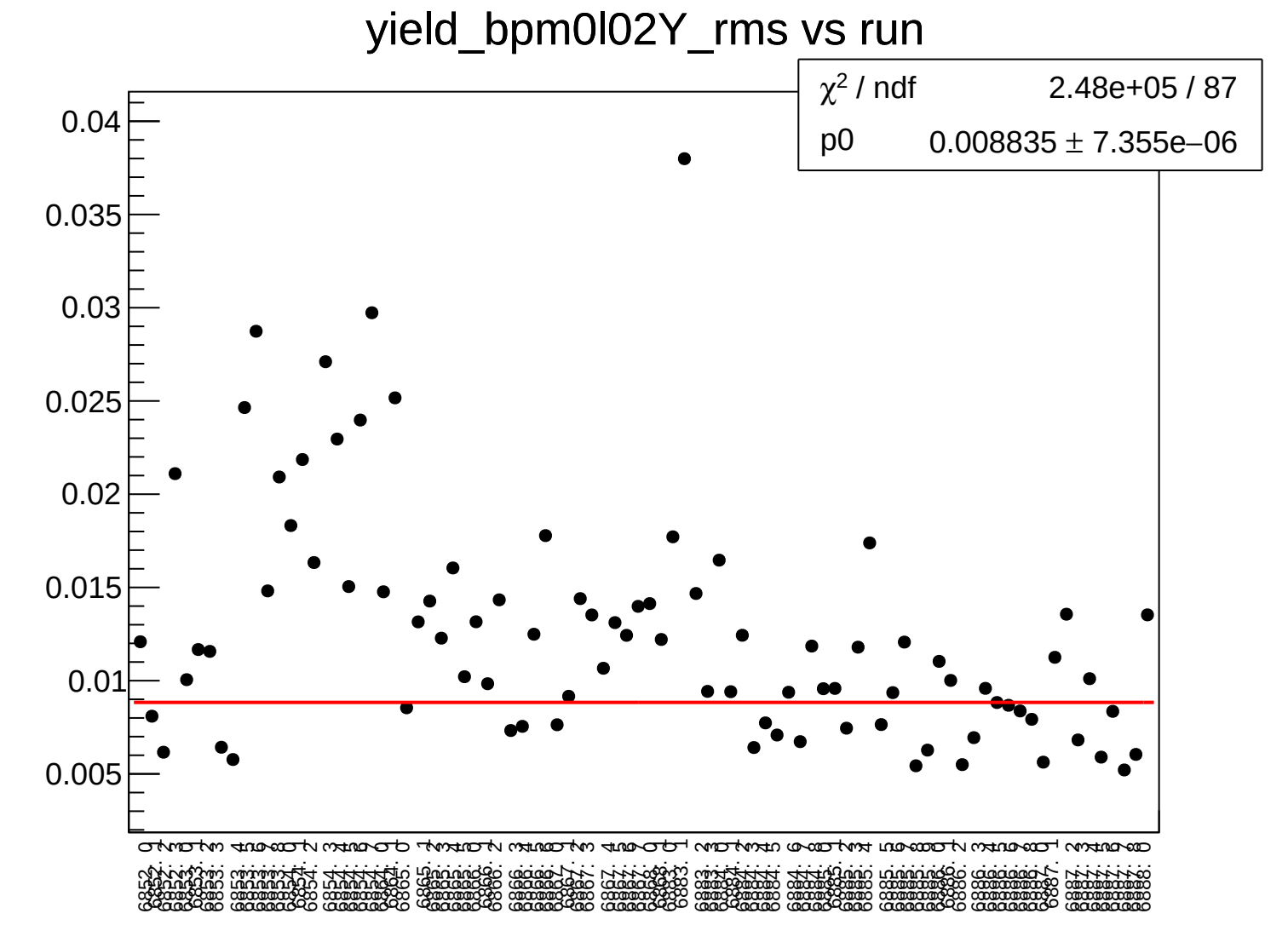

yield_bpm0l02X_mean vs run
χ² / ndf 7.312e+08 / 87
p0 −3.441 ± 2.045e−05
−2.5
−3
−3.5
−4
−4.5
pull
Entries 88
Mean −3572
Std Dev 0
4000
2000
0
−2000
−4000

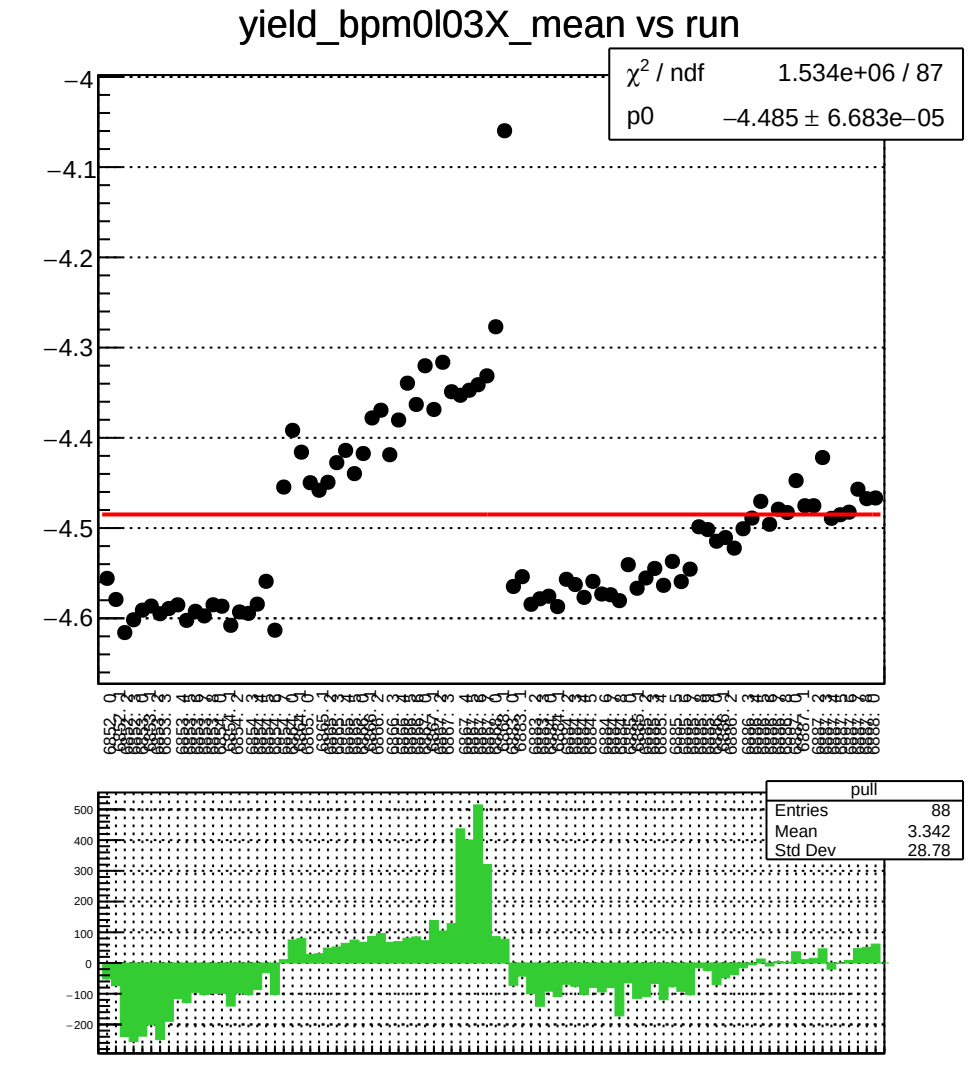

pull1D
Entries 88
Mean −1.654
Std Dev 6.008
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

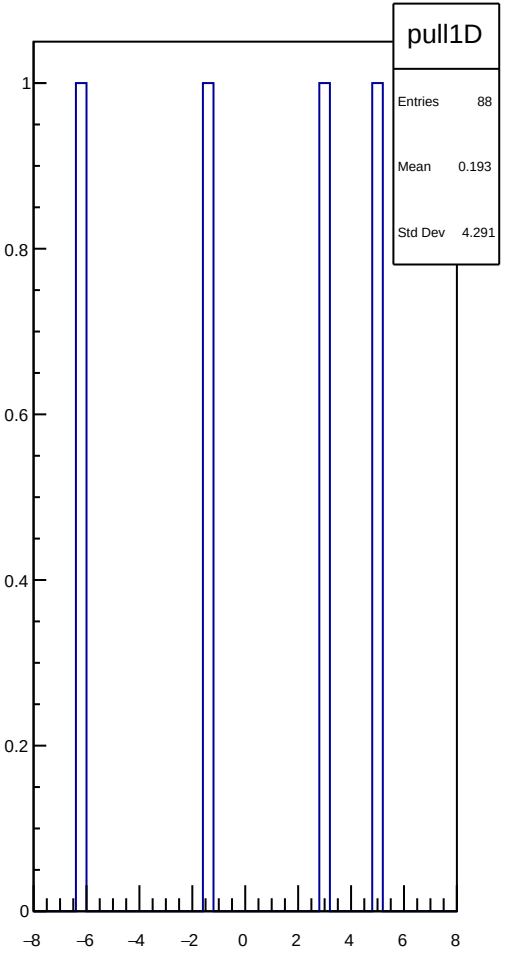

yield_bpm0l02X_rms vs run
χ² / ndf 1.031e+05 / 87
p0 0.01822 ± 1.446e−05
0.12
0.1
0.08
0.06
0.04
0.02

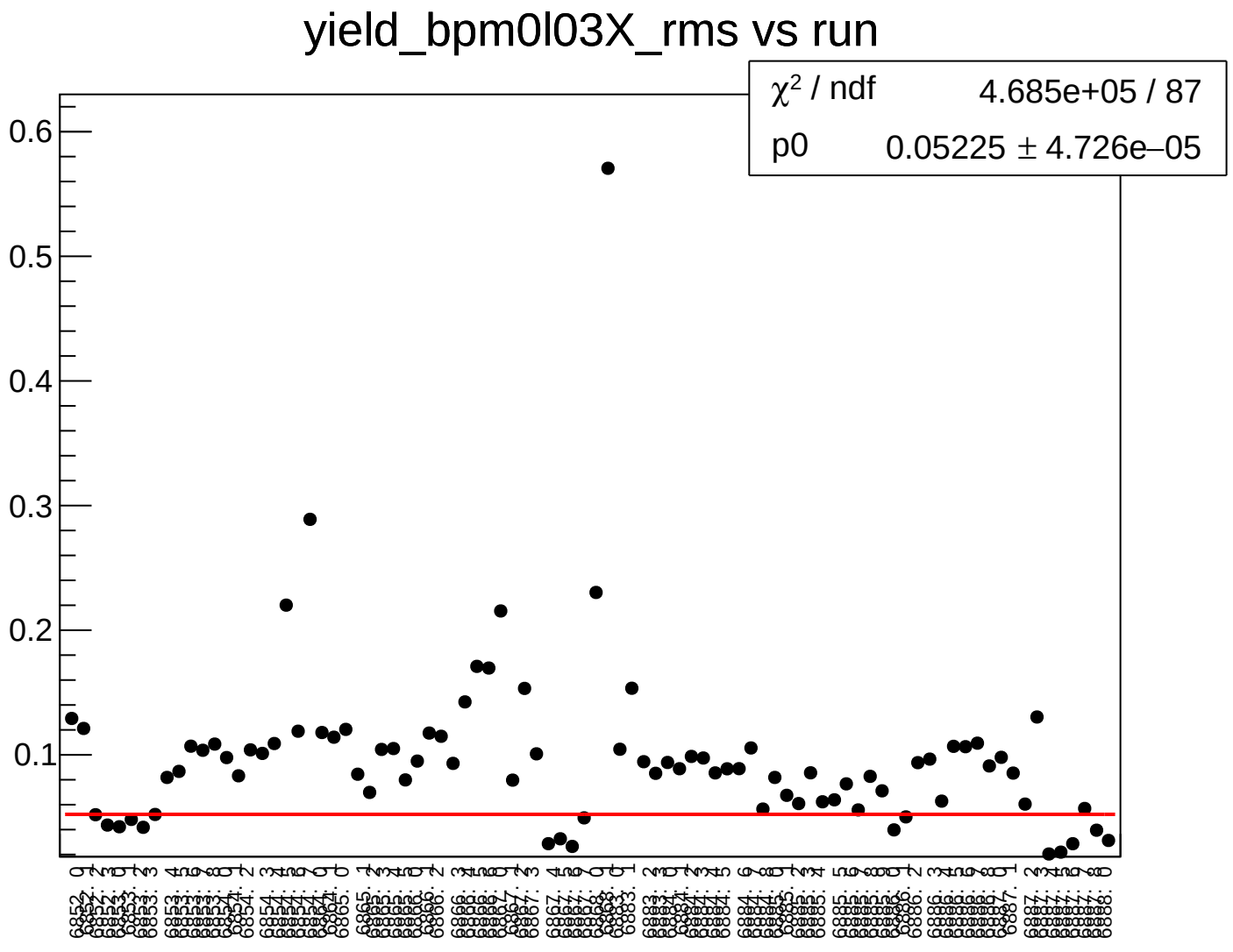

yield_bpm0l02Y_mean vs run
χ² / ndf 1.057e+08 / 87
p0 0.4734 ± 1.04e−05
pull
Entries 88
Mean −63.06
Std Dev 0

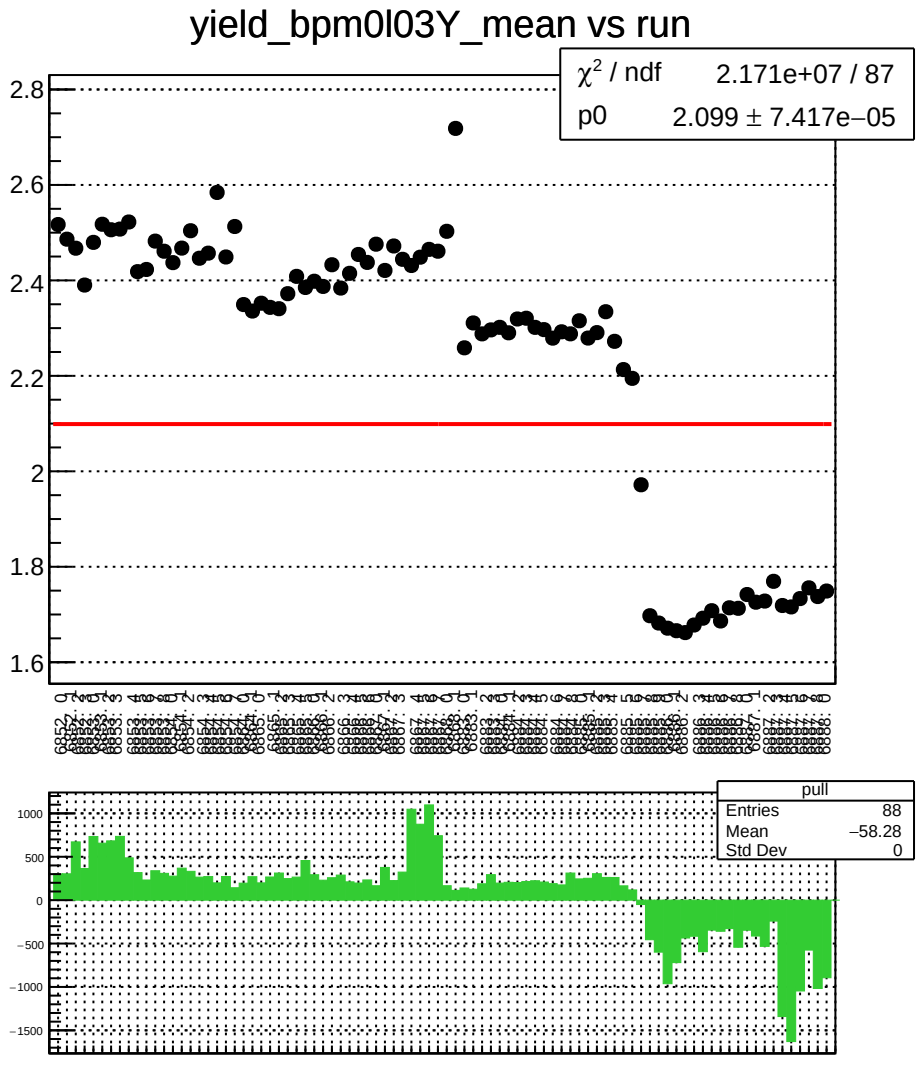

pull1D
Entries 88
Mean 0
Std Dev 0

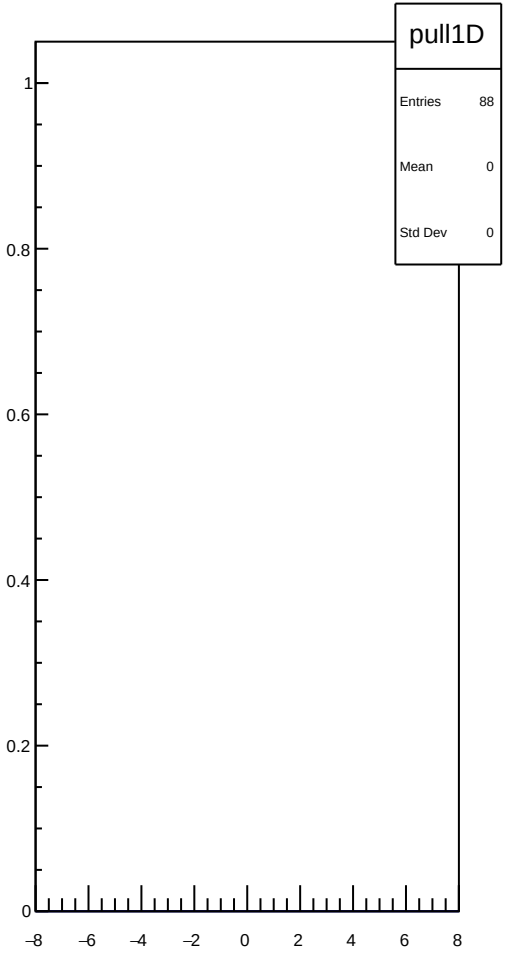

yield_bpm0l02Y_rms vs run
χ² / ndf 2.48e+05 / 87
p0 0.008835 ± 7.355e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

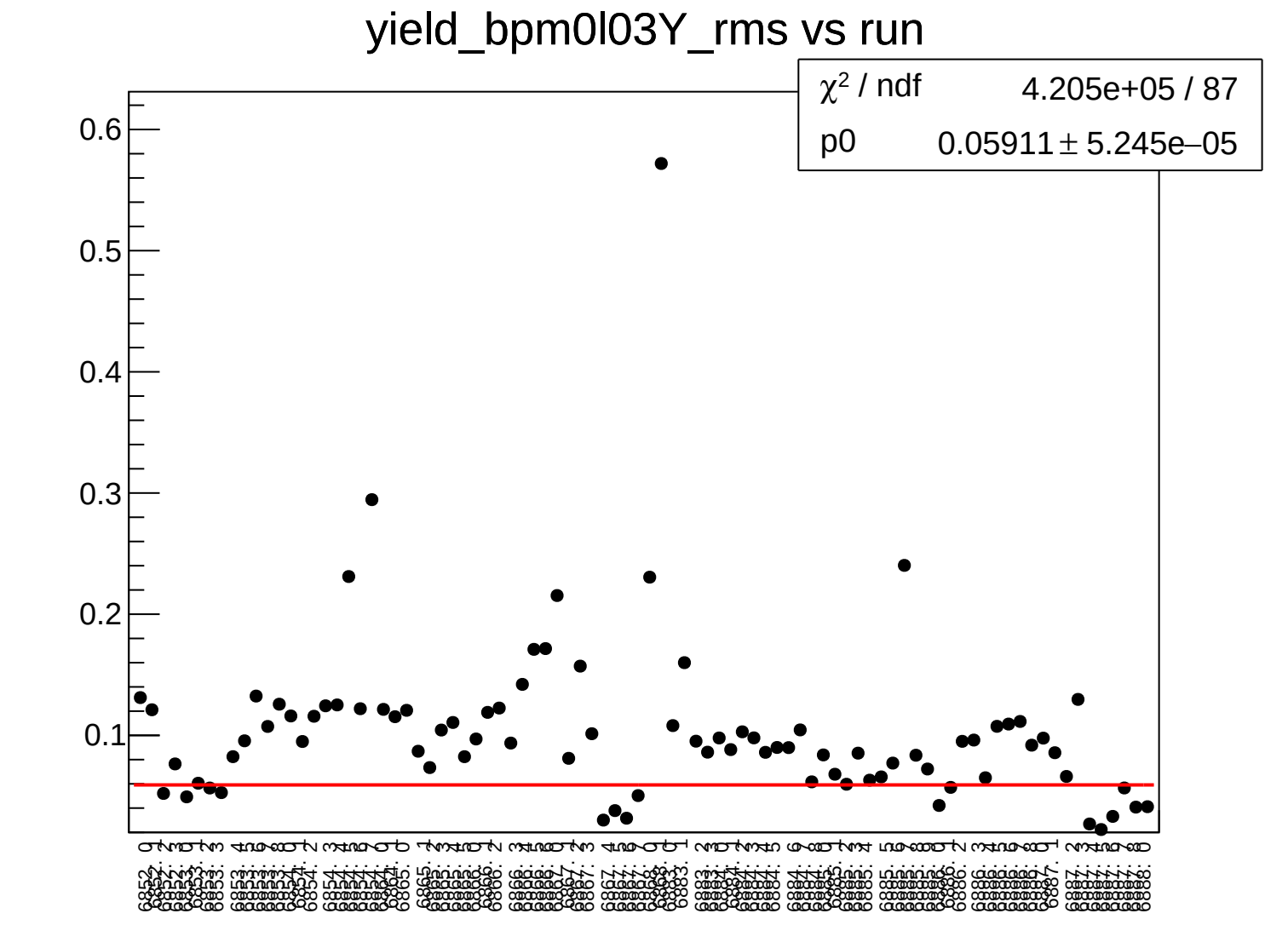

yield_bpm0l03X_mean vs run
χ² / ndf 1.534e+06 / 87
p0 −4.485 ± 6.683e−05
−4
−4.1
−4.2
−4.3
−4.4
−4.5
−4.6
pull
Entries 88
Mean 3.342
Std Dev 28.78
500
400
300
200
100
0
−100
−200

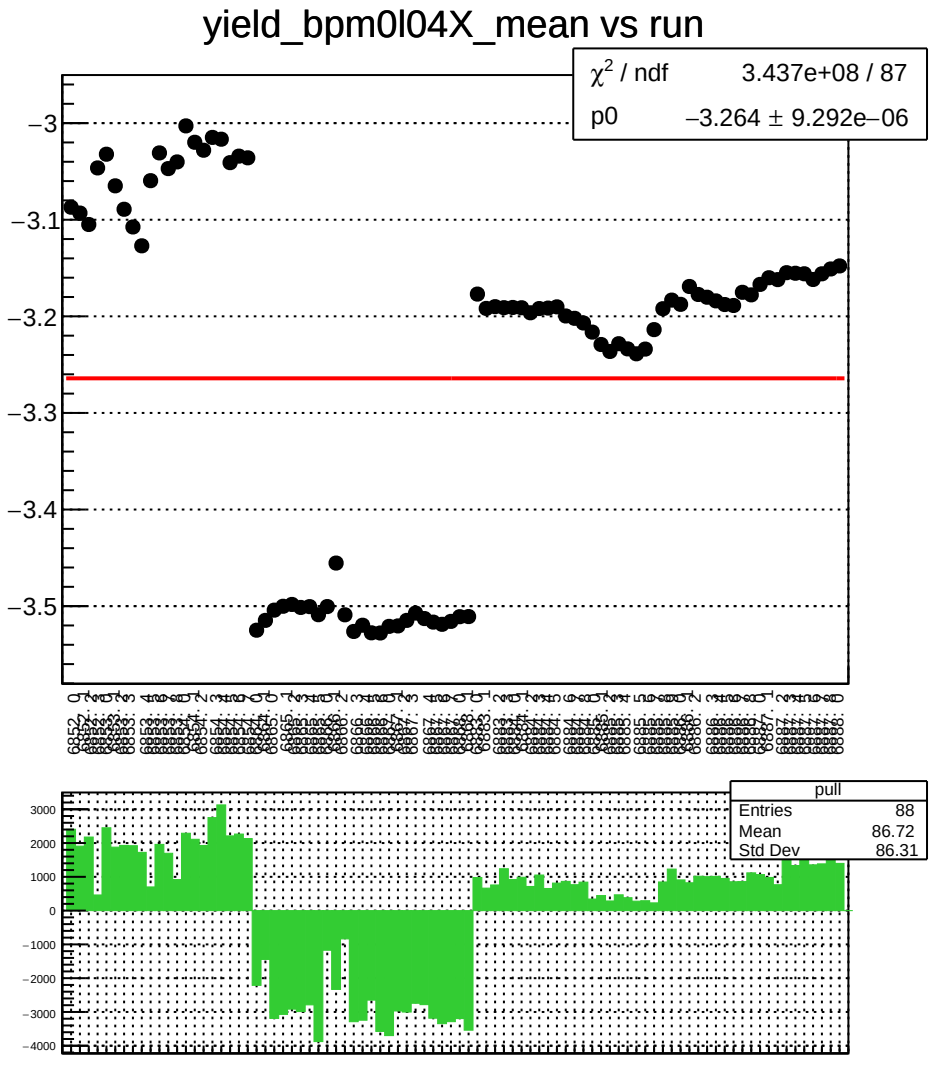

pull1D
Entries 88
Mean 0.193
Std Dev 4.291
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

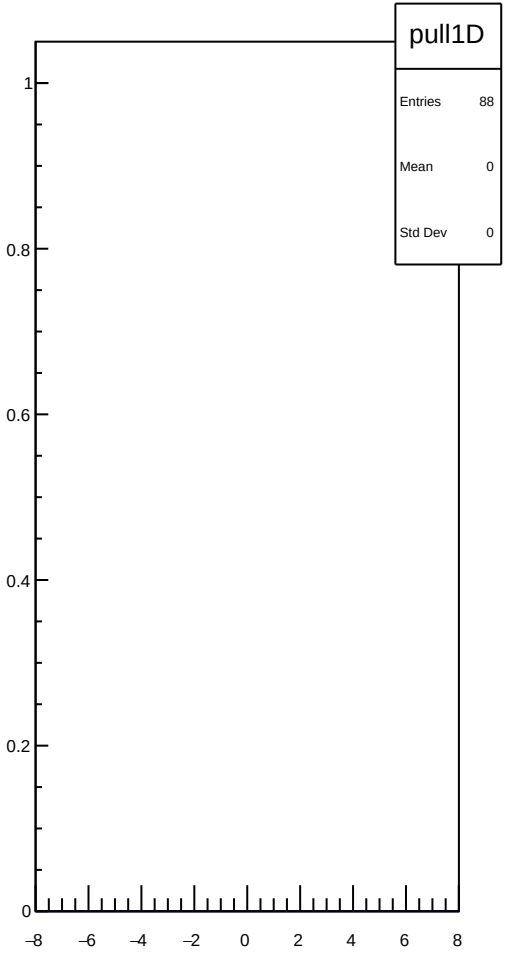

yield_bpm0l03X_rms vs run
χ² / ndf 4.685e+05 / 87
p0 0.05225 ± 4.726e–05
0.6
0.5
0.4
0.3
0.2
0.1

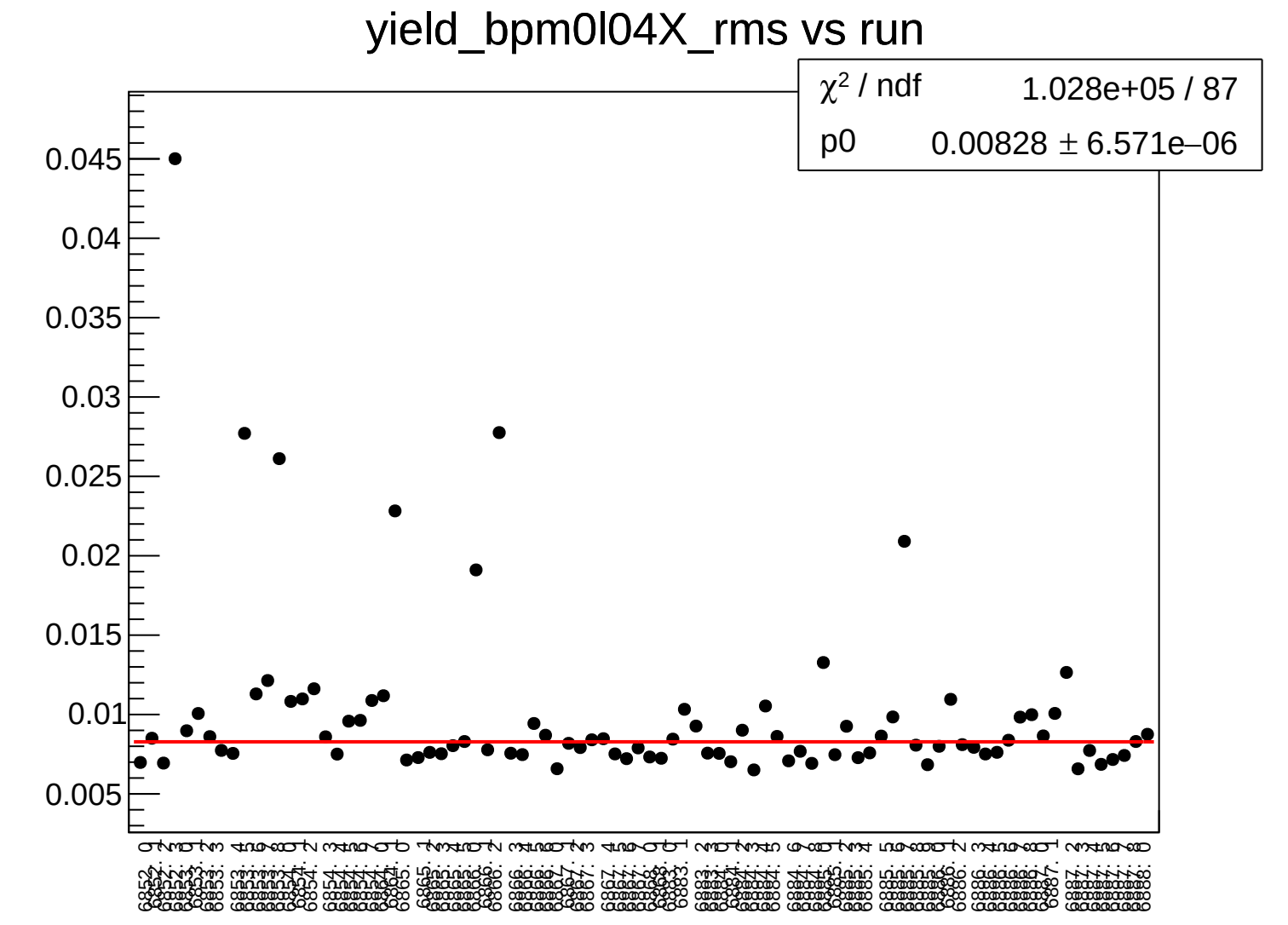

yield_bpm0l03Y_mean vs run
χ² / ndf 2.171e+07 / 87
p0 2.099 ± 7.417e−05
2.8
2.6
2.4
2.2
2
1.8
1.6
pull
Entries 88
Mean −58.28
Std Dev 0
1000
500
0
−500
−1000
−1500

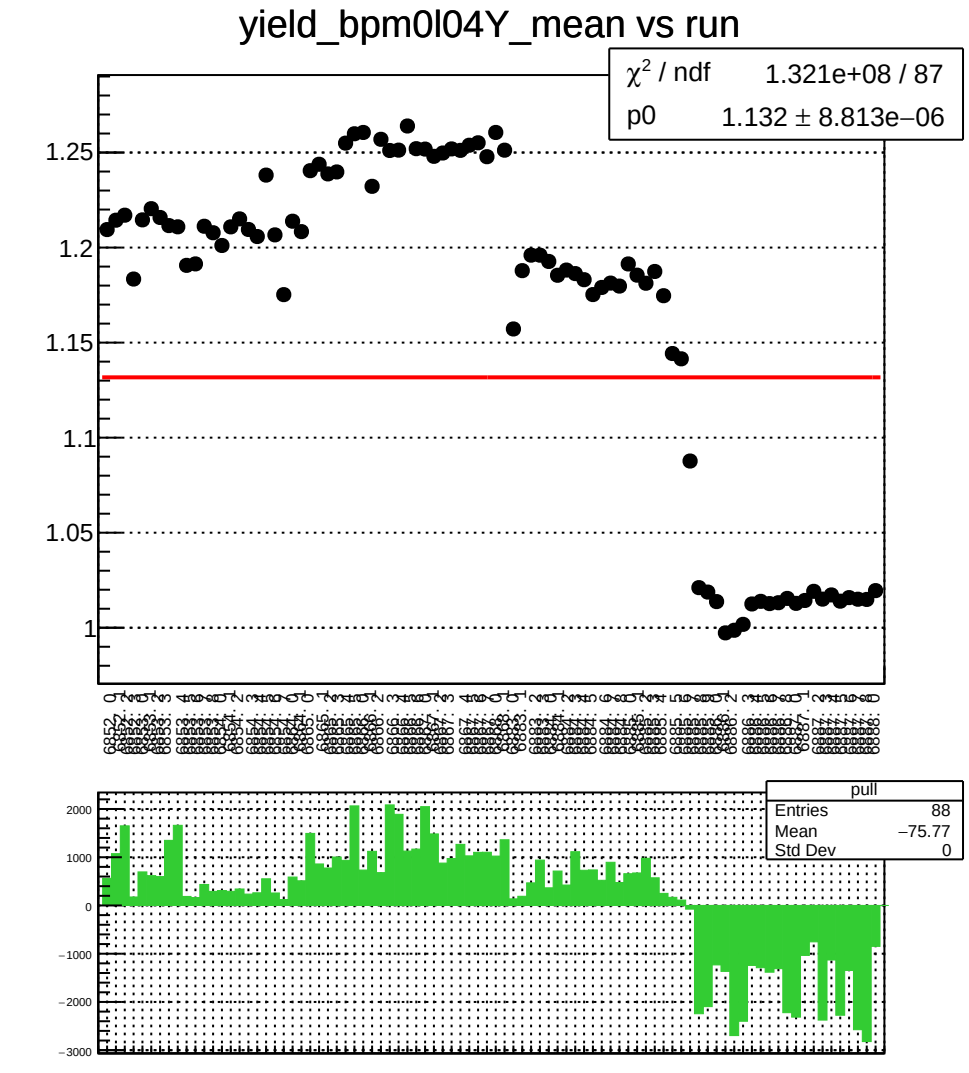

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

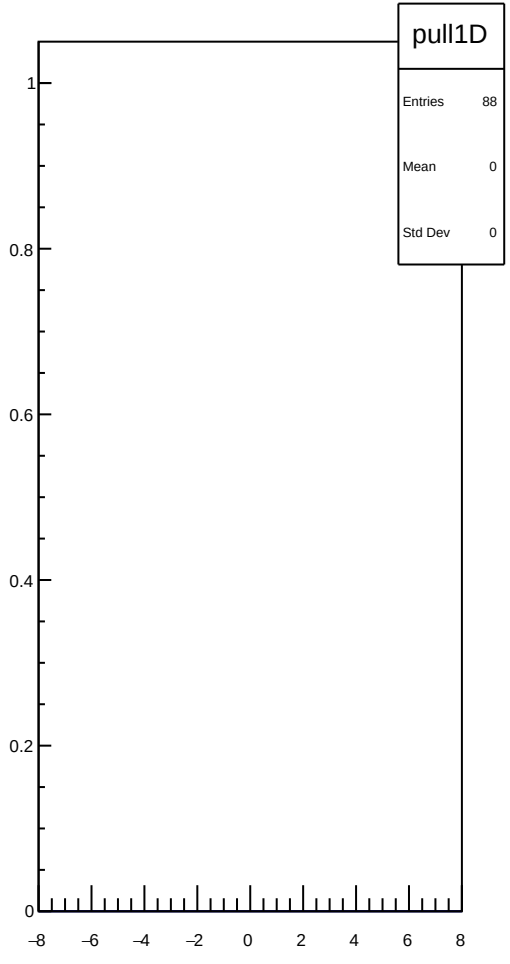

yield_bpm0l03Y_rms vs run
χ² / ndf 4.205e+05 / 87
p0 0.05911 ± 5.245e–05
0.6
0.5
0.4
0.3
0.2
0.1

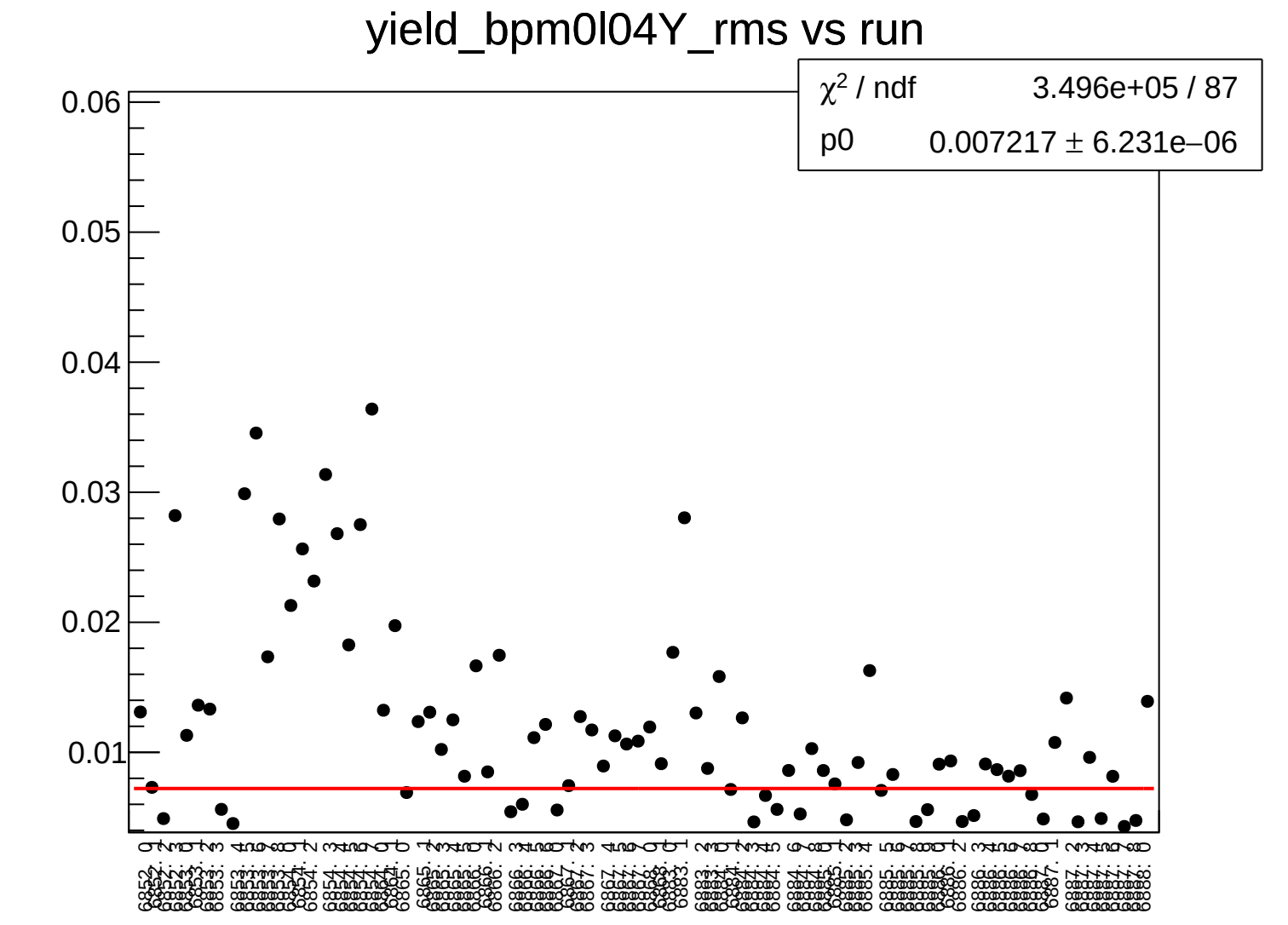

yield_bpm0l04X_mean vs run
χ² / ndf 3.437e+08 / 87
p0 −3.264 ± 9.292e−06
−3
−3.1
−3.2
−3.3
−3.4
−3.5
pull
Entries 88
Mean 86.72
Std Dev 86.31
3000
2000
1000
0
−1000
−2000
−3000
−4000

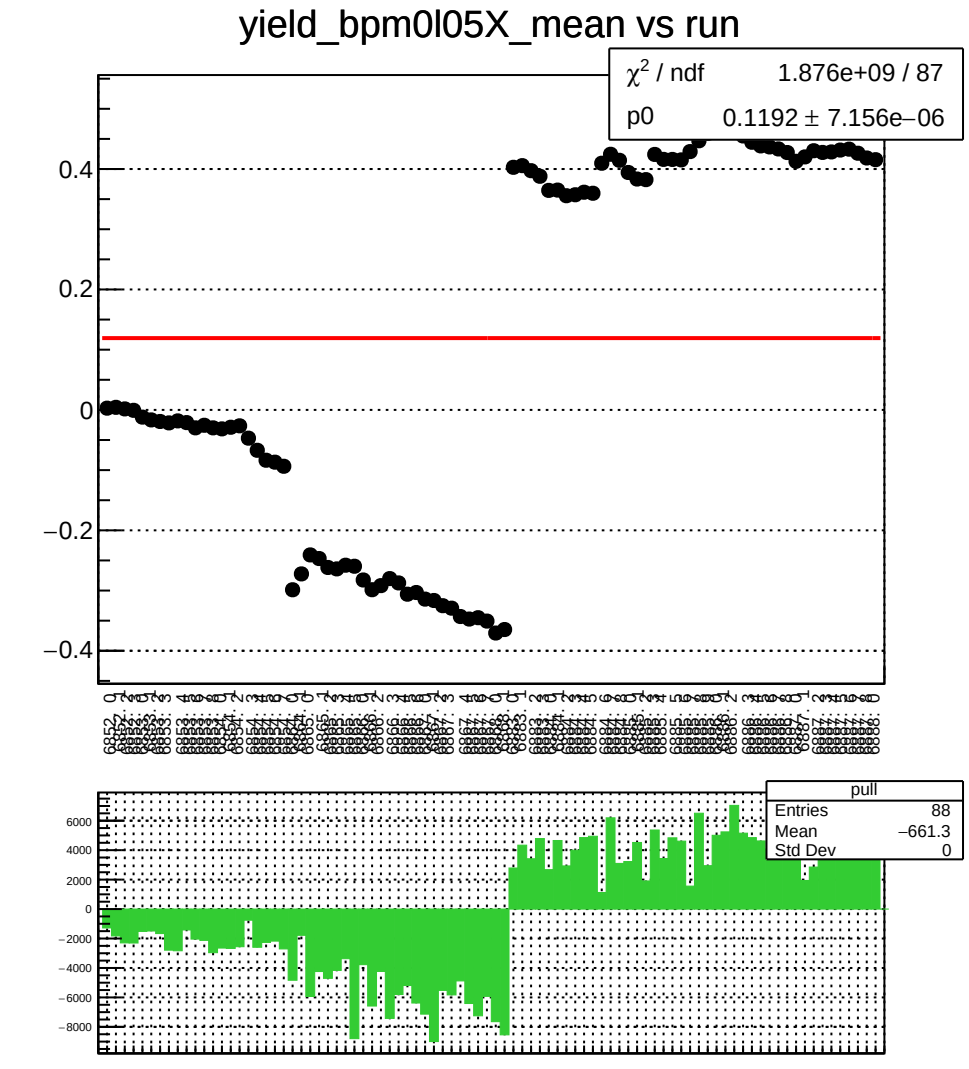

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

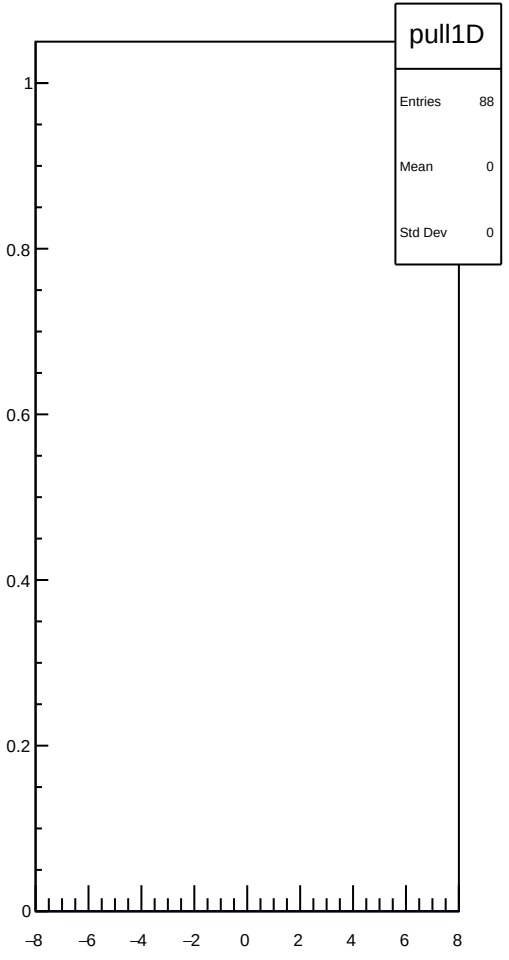

yield_bpm0l04X_rms vs run
χ² / ndf 1.028e+05 / 87
p0 0.00828 ± 6.571e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

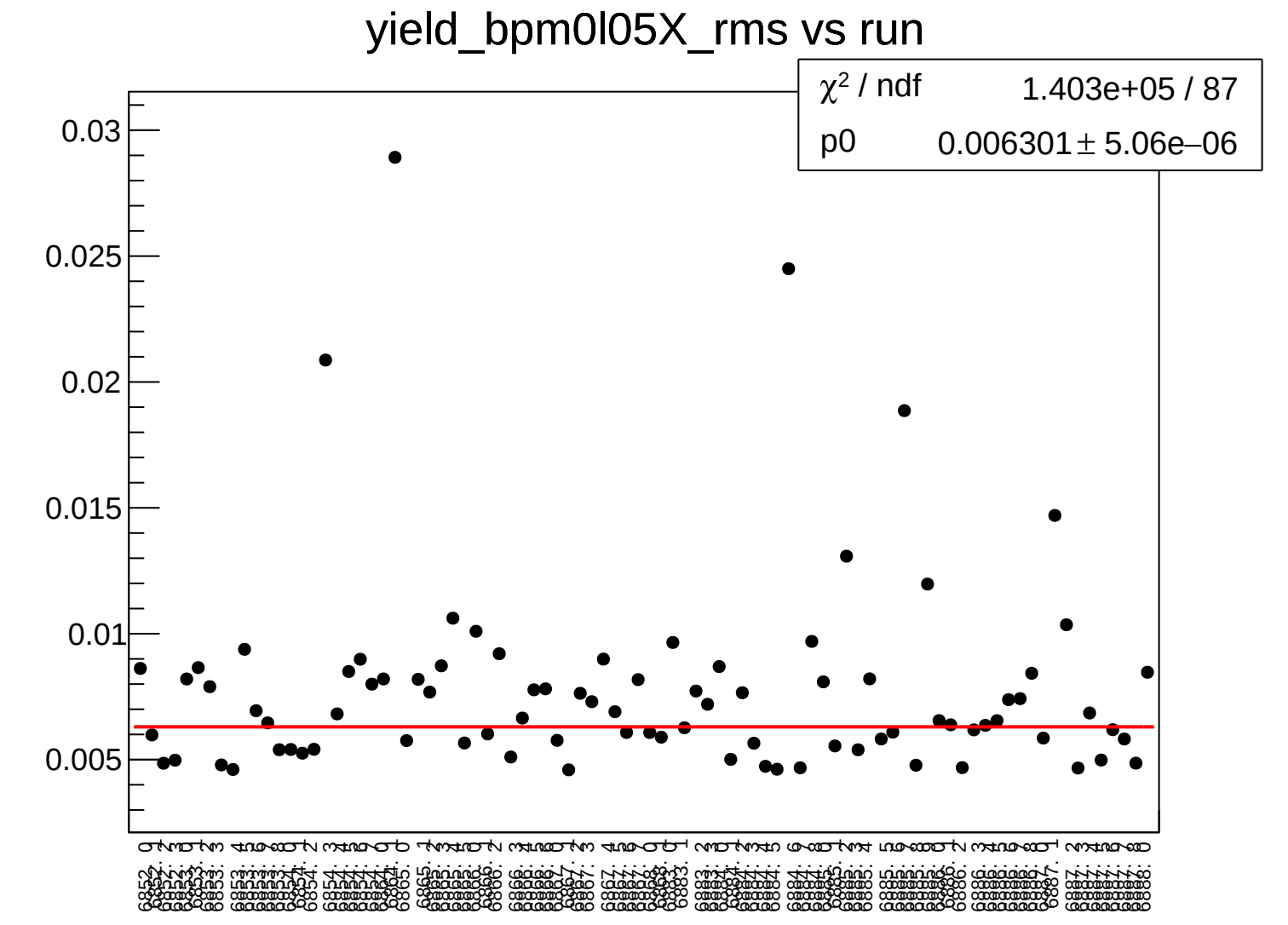

yield_bpm0l04Y_mean vs run
χ² / ndf 1.321e+08 / 87
p0 1.132 ± 8.813e−06
1.25
1.2
1.15
1.1
1.05
1
pull
Entries 88
Mean −75.77
Std Dev 0
2000
1000
0
−1000
−2000
−3000

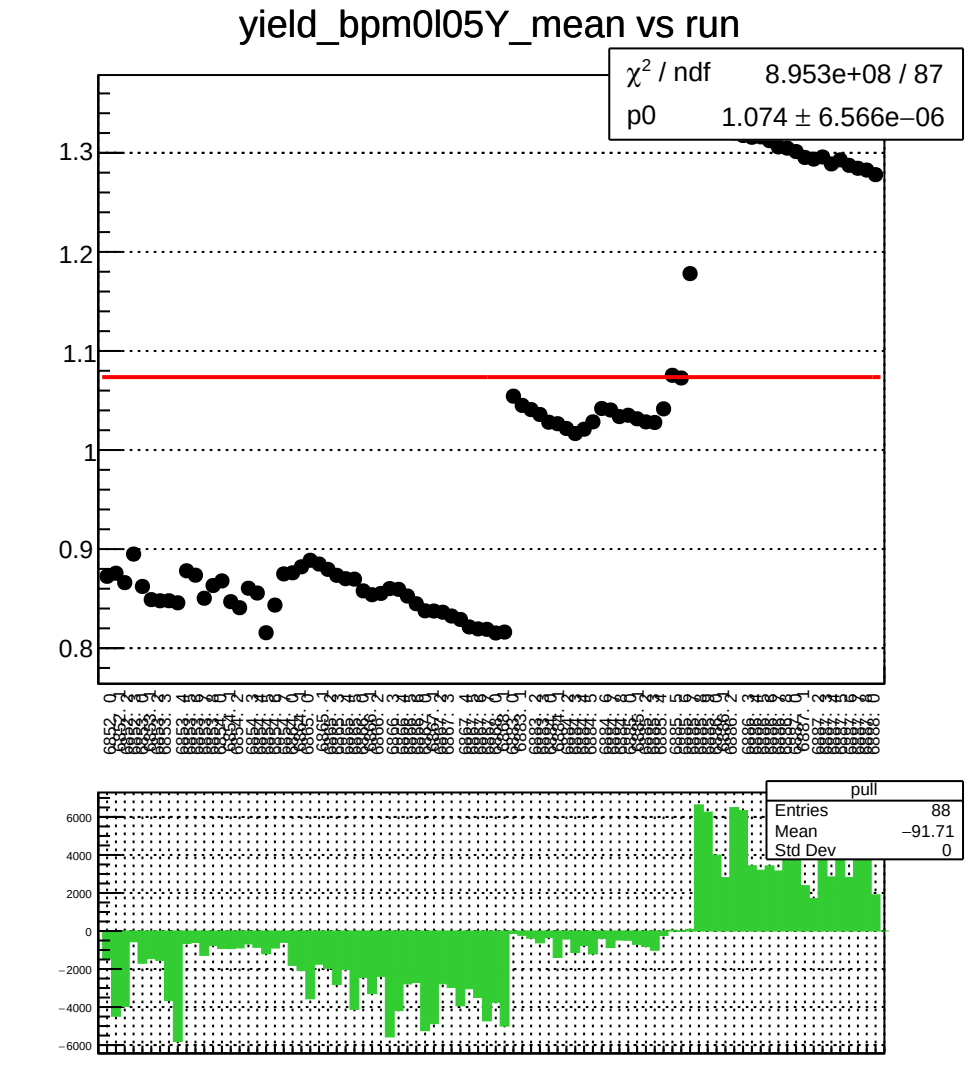

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

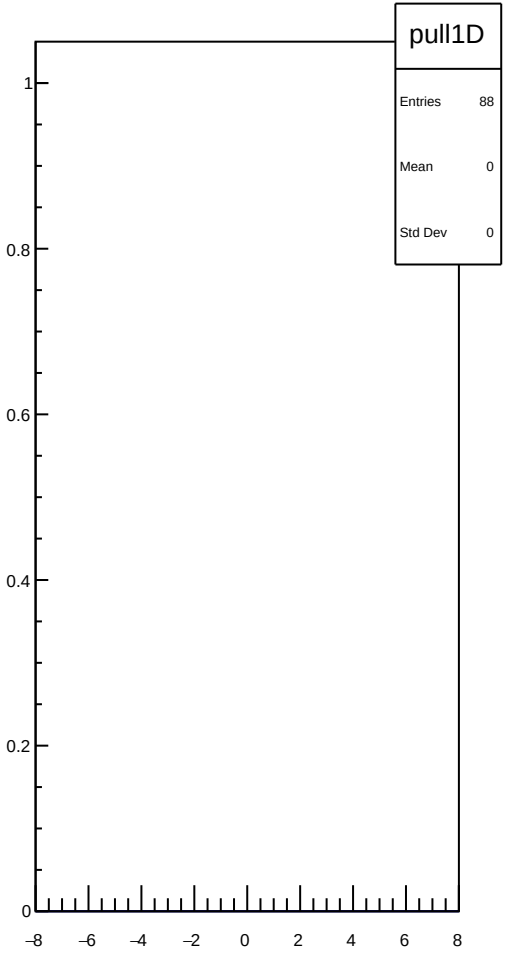

yield_bpm0l04Y_rms vs run
χ² / ndf 3.496e+05 / 87
p0 0.007217 ± 6.231e−06
0.06
0.05
0.04
0.03
0.02
0.01

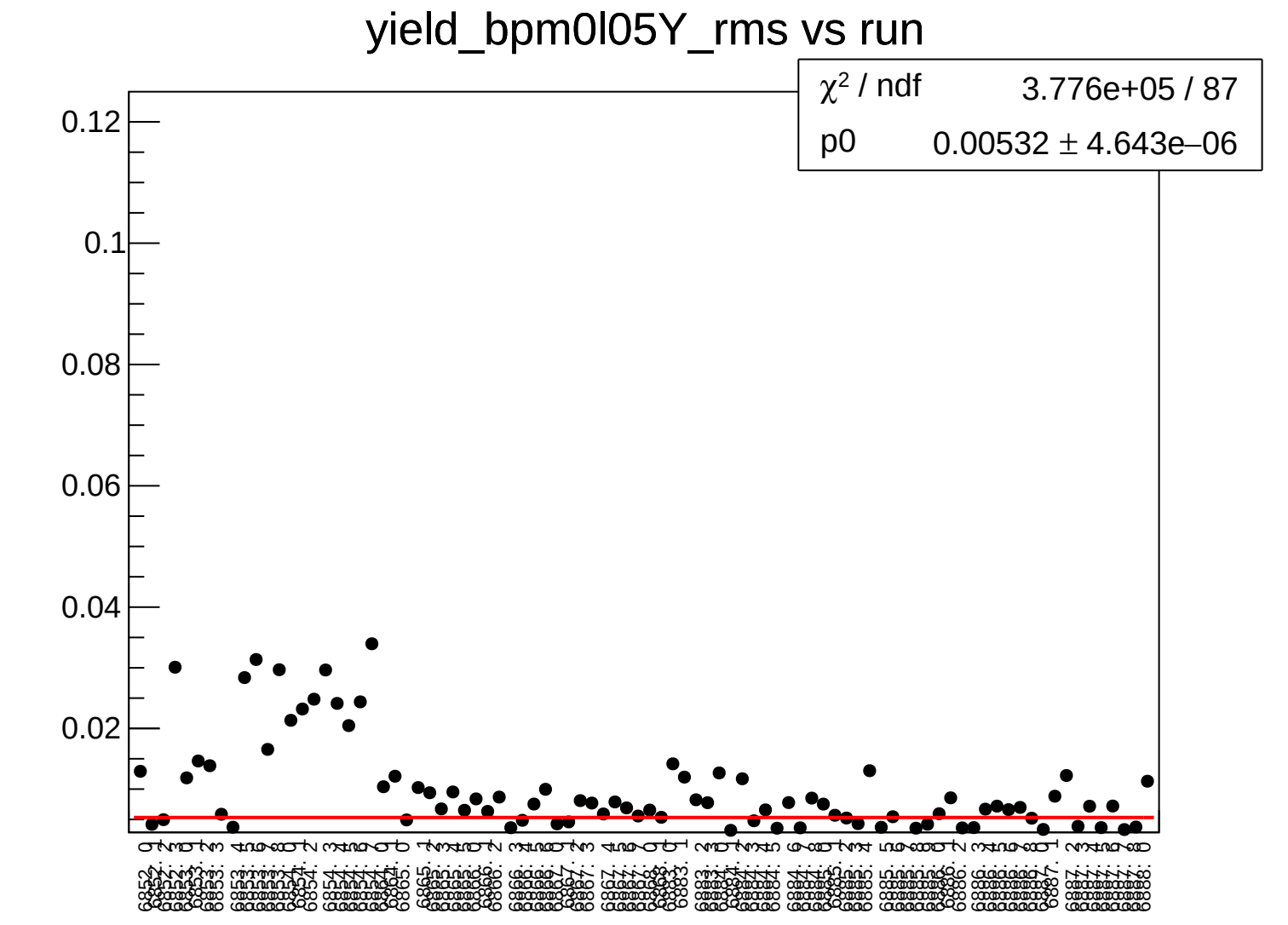

yield_bpm0l05X_mean vs run
χ² / ndf 1.876e+09 / 87
p0 0.1192 ± 7.156e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean −661.3
Std Dev 0
6000
4000
2000
0
−2000
−4000
−6000
−8000

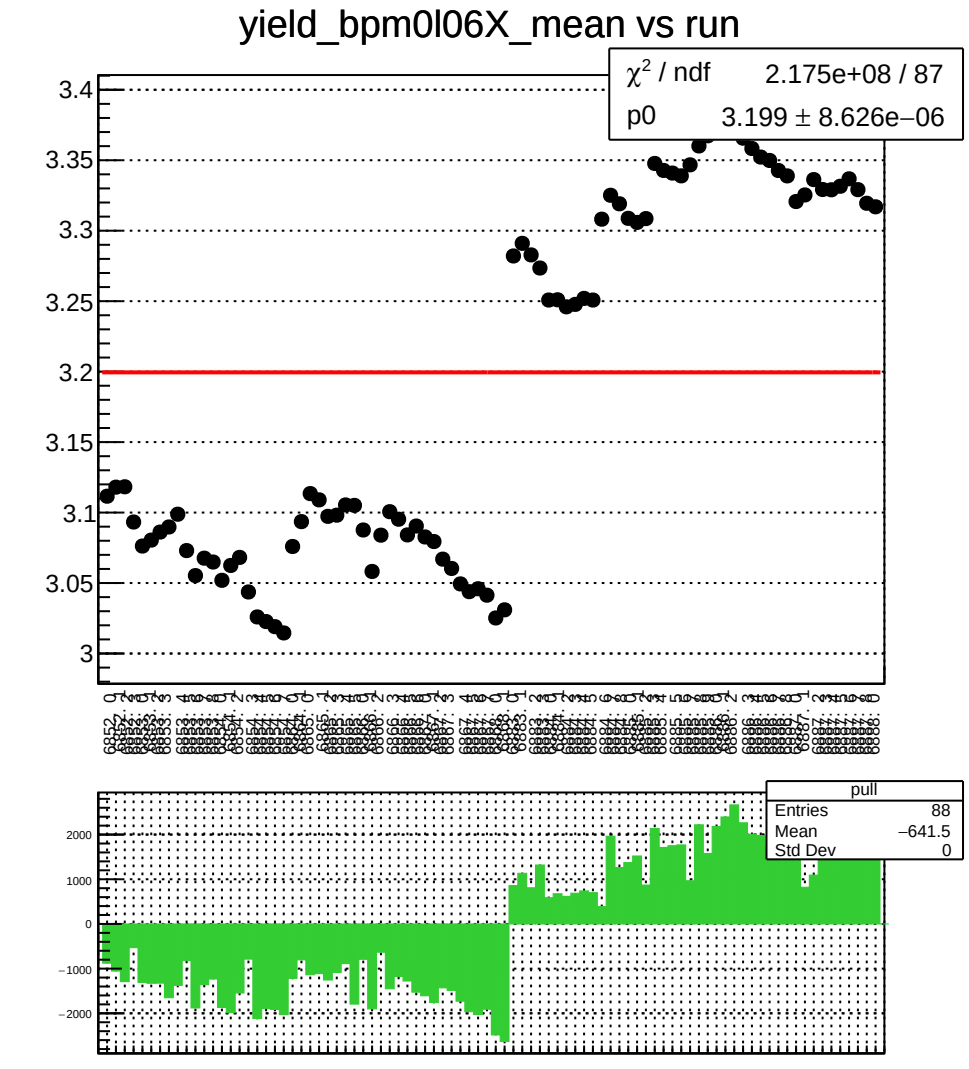

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

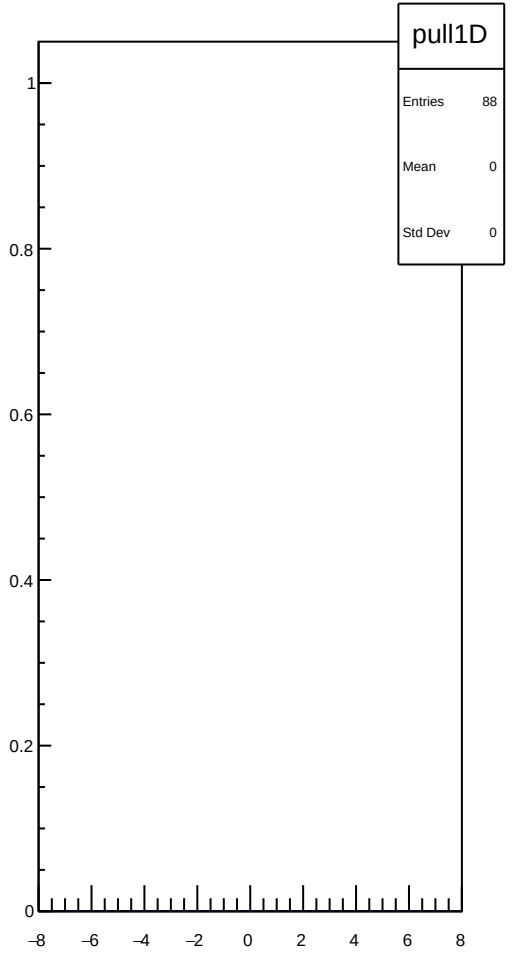

yield_bpm0l05X_rms vs run
χ² / ndf 1.403e+05 / 87
p0 0.006301 ± 5.06e−06
0.03
0.025
0.02
0.015
0.01
0.005

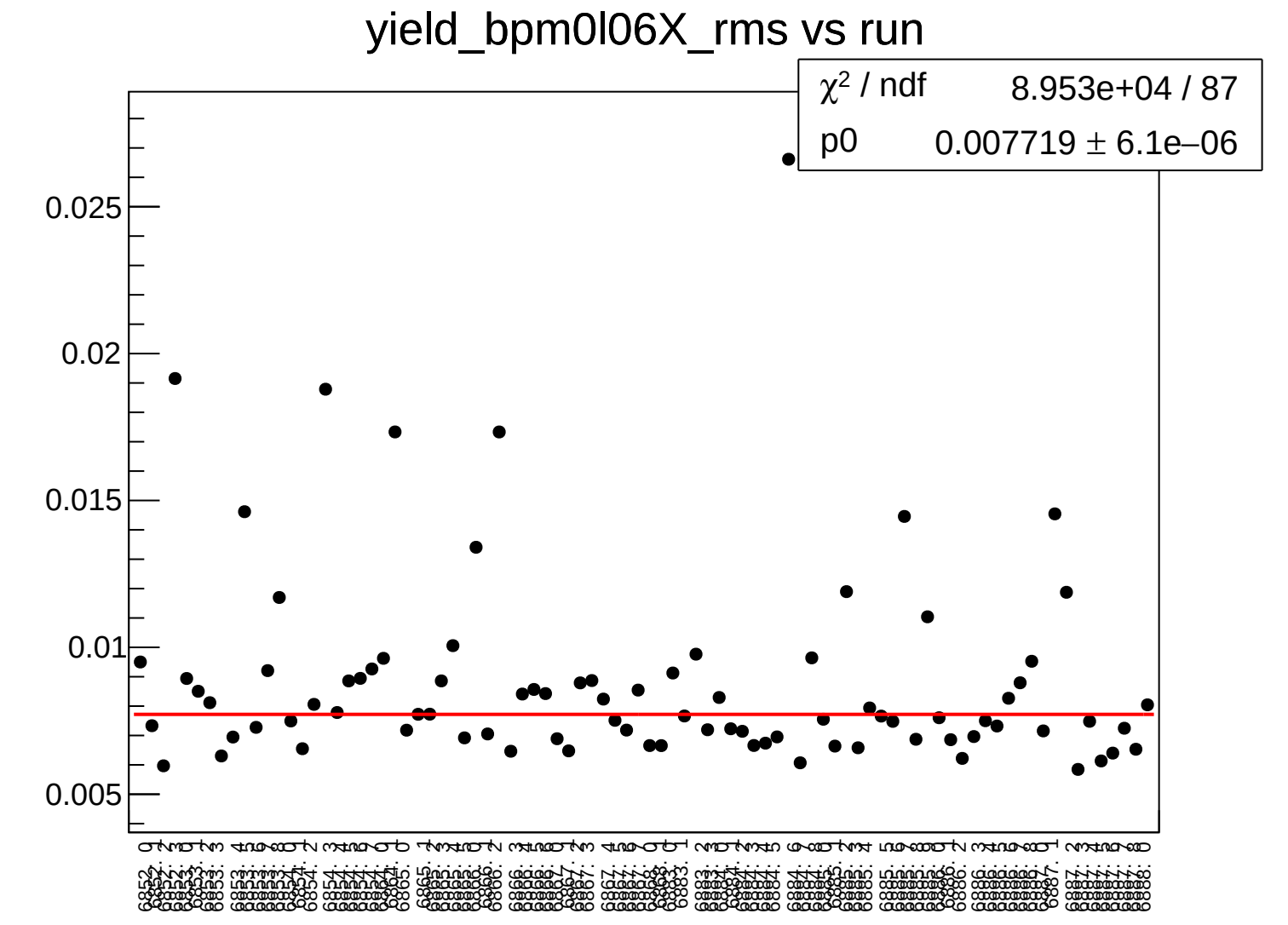

yield_bpm0l05Y_mean vs run
χ² / ndf 8.953e+08 / 87
p0 1.074 ± 6.566e−06
1.3
1.2
1.1
1
0.9
0.8
pull
Entries 88
Mean −91.71
Std Dev 0
6000
4000
2000
0
−2000
−4000
−6000

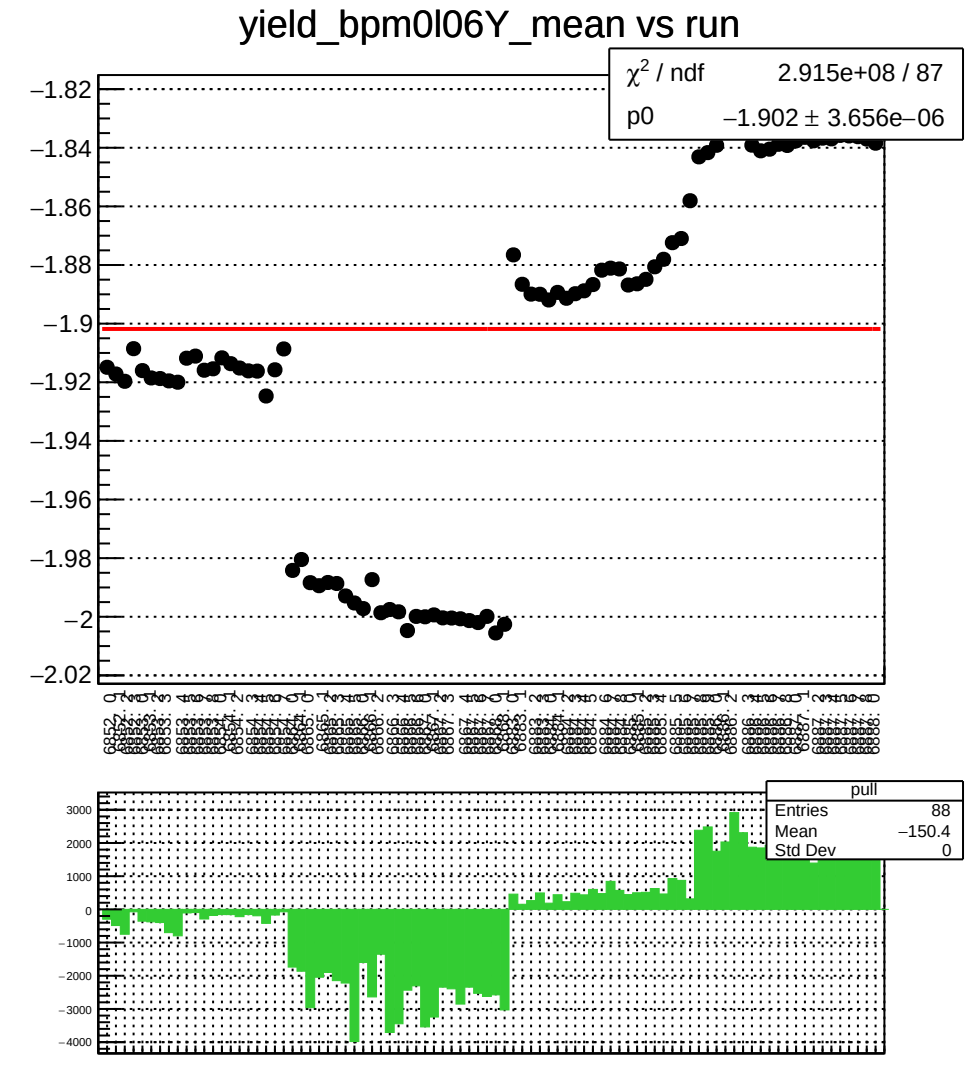

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

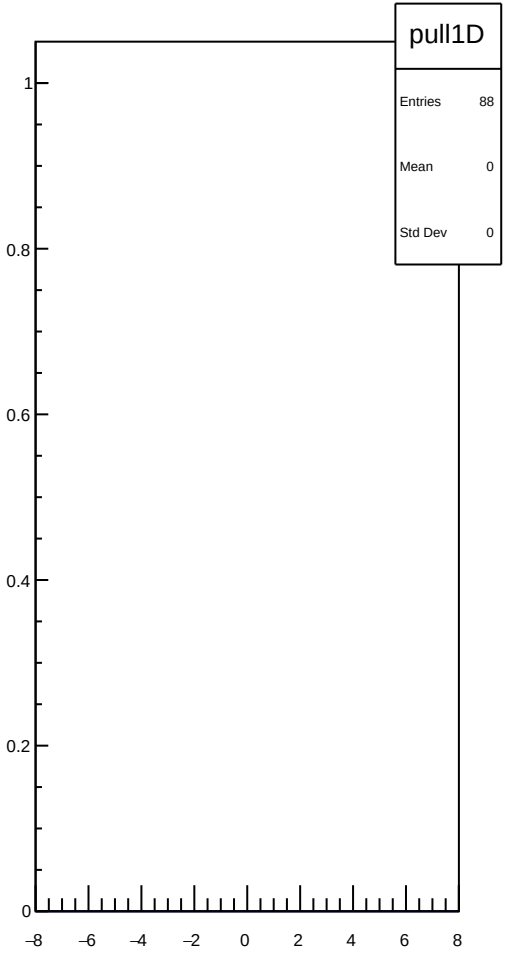

yield_bpm0l05Y_rms vs run
χ² / ndf 3.776e+05 / 87
p0 0.00532 ± 4.643e–06
0.12
0.1
0.08
0.06
0.04
0.02

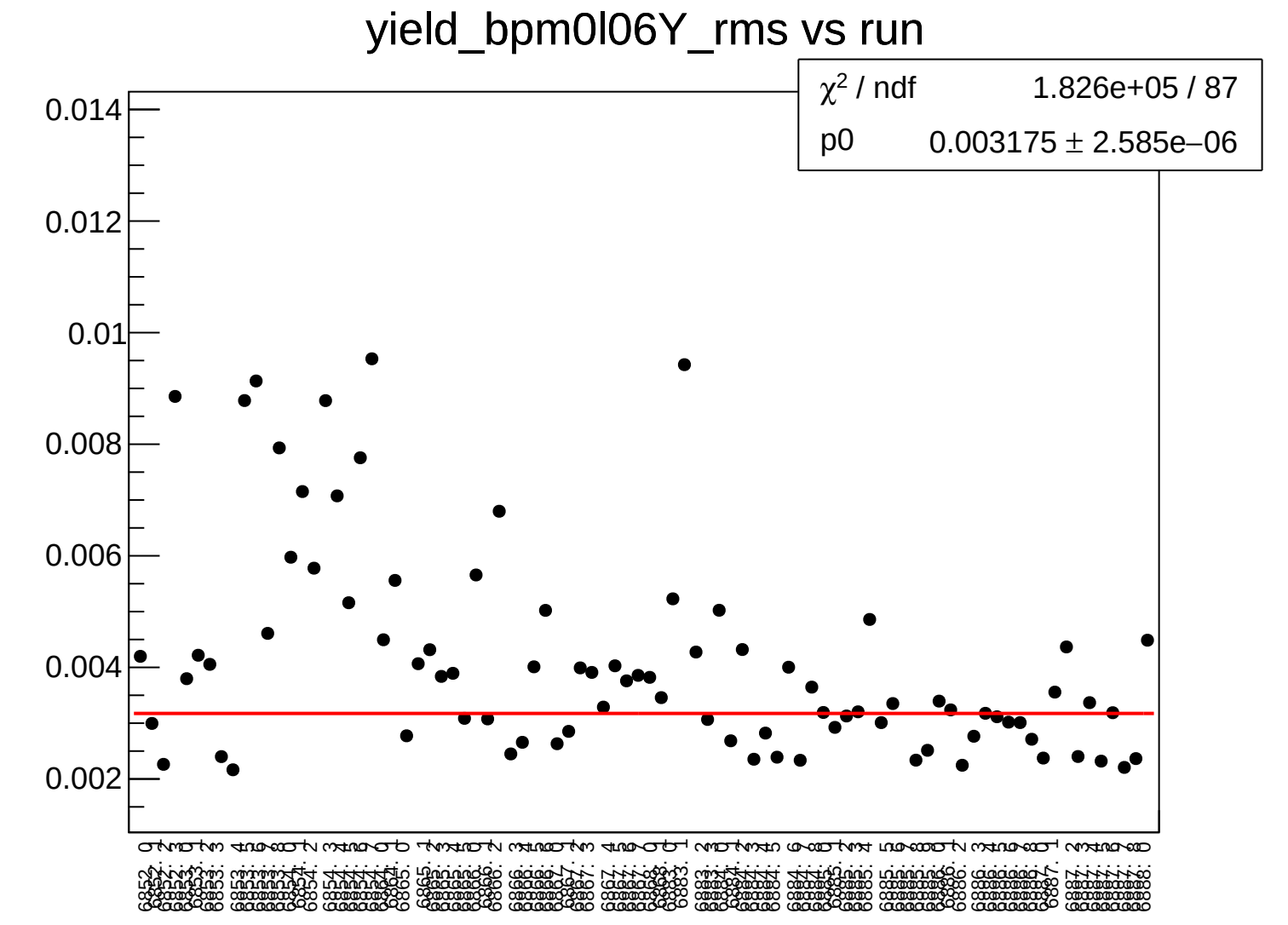

yield_bpm0l06X_mean vs run
χ² / ndf 2.175e+08 / 87
p0 3.199 ± 8.626e−06
3.4
3.35
3.3
3.25
3.2
3.15
3.1
3.05
3
pull
Entries 88
Mean −641.5
Std Dev 0
2000
1000
0
−1000
−2000

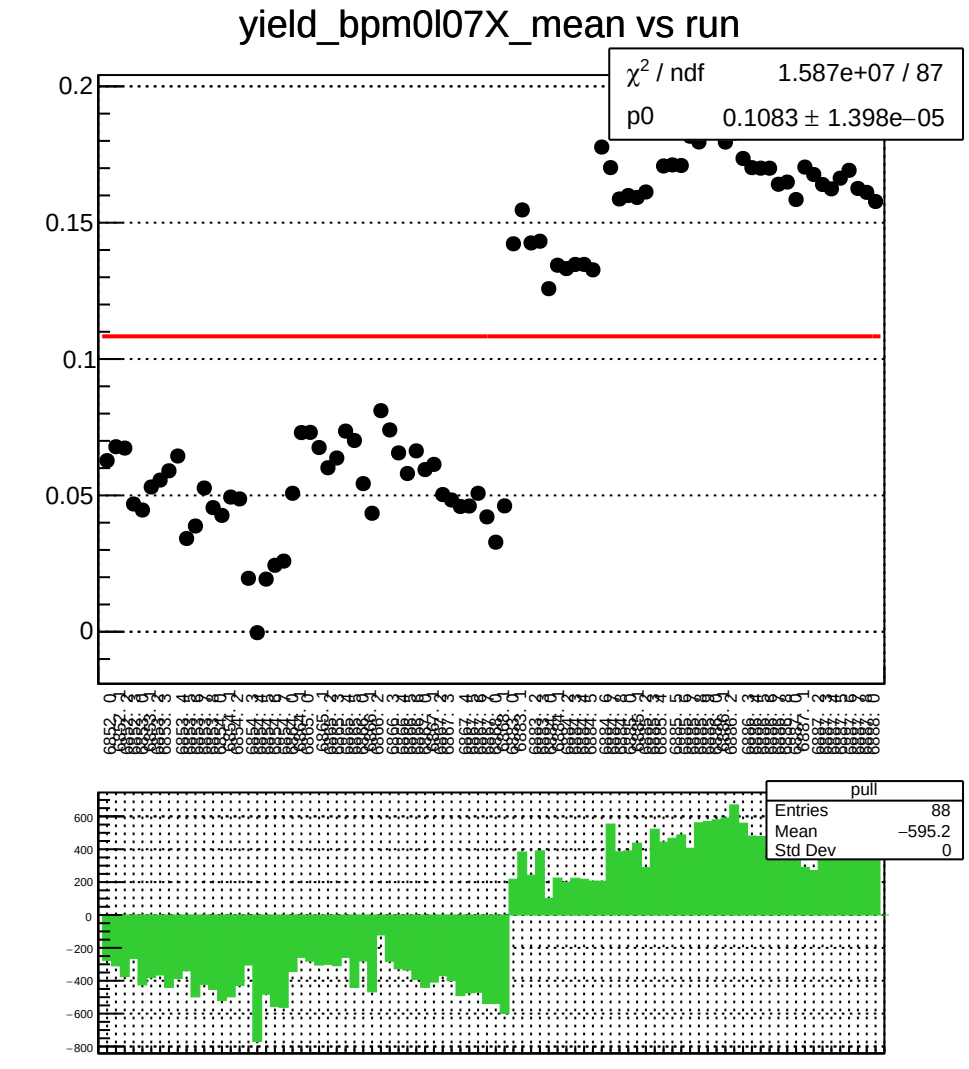

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

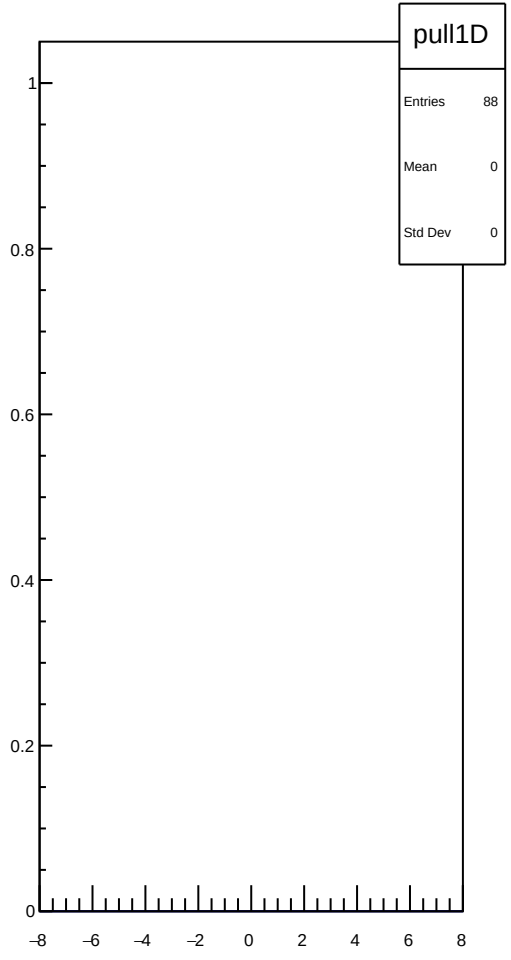

yield_bpm0l06X_rms vs run
χ² / ndf 8.953e+04 / 87
p0 0.007719 ± 6.1e−06
0.025
0.02
0.015
0.01
0.005

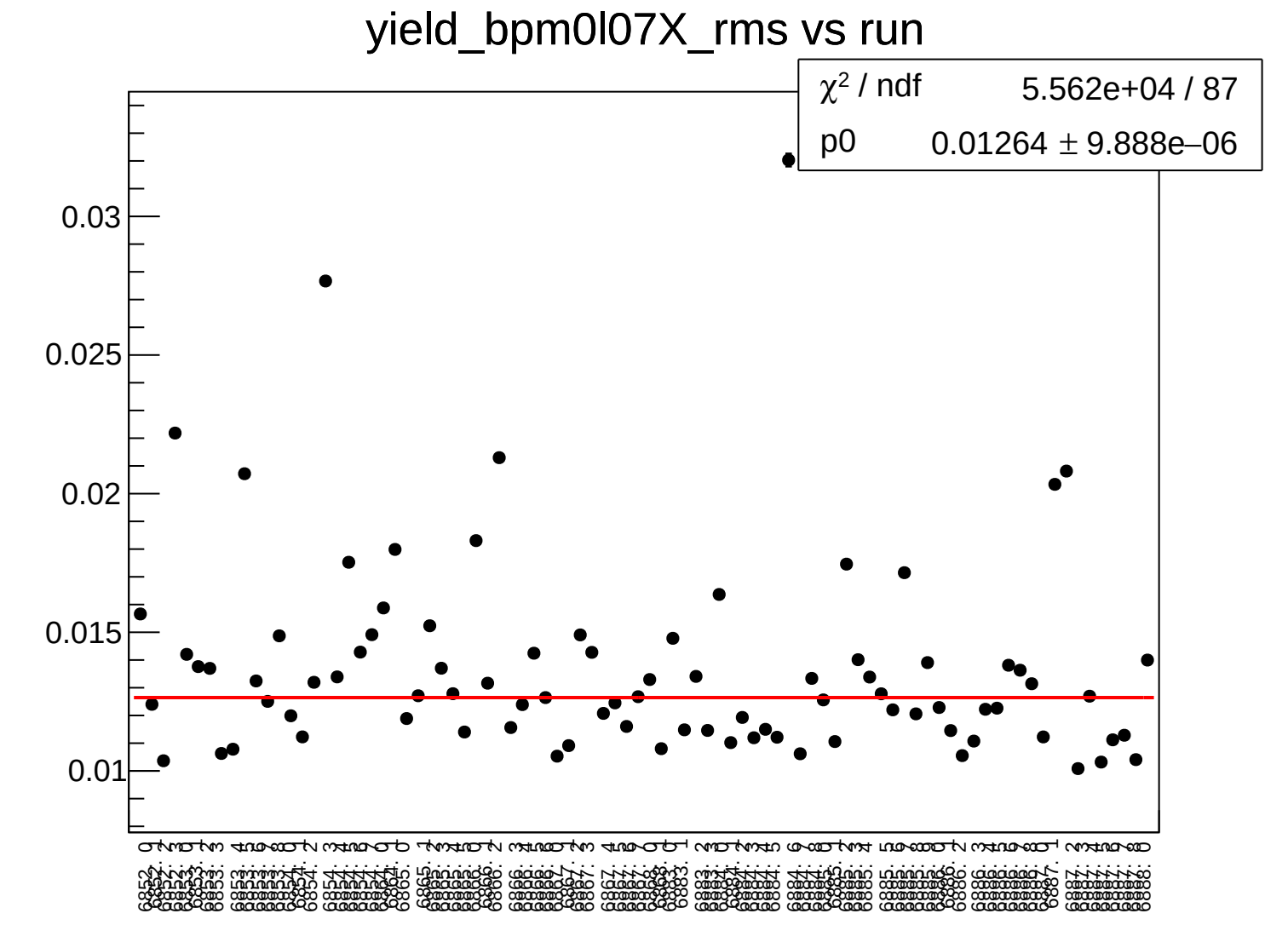

yield_bpm0l06Y_mean vs run
χ² / ndf 2.915e+08 / 87
p0 −1.902 ± 3.656e−06
−1.82
−1.84
−1.86
−1.88
−1.9
−1.92
−1.94
−1.96
−1.98
−2
−2.02
pull
Entries 88
Mean −150.4
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
−4000

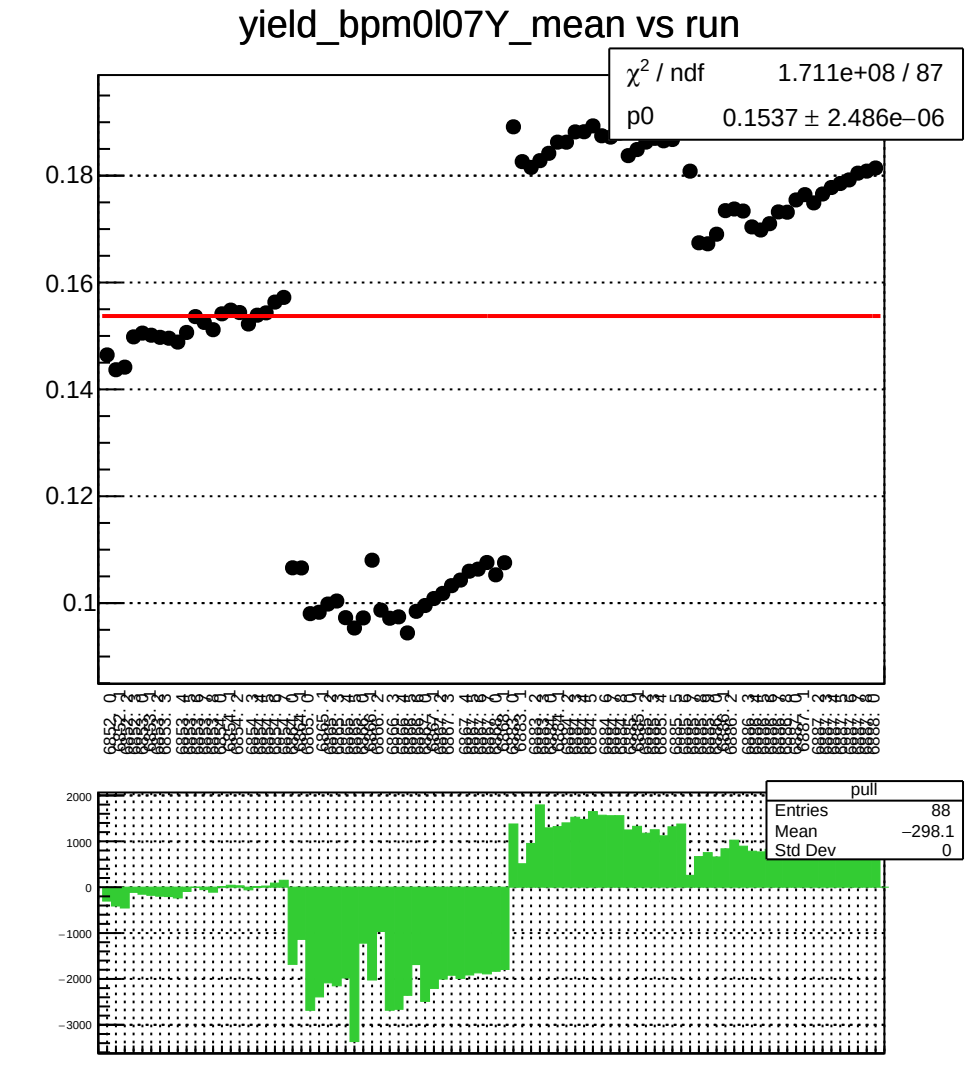

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

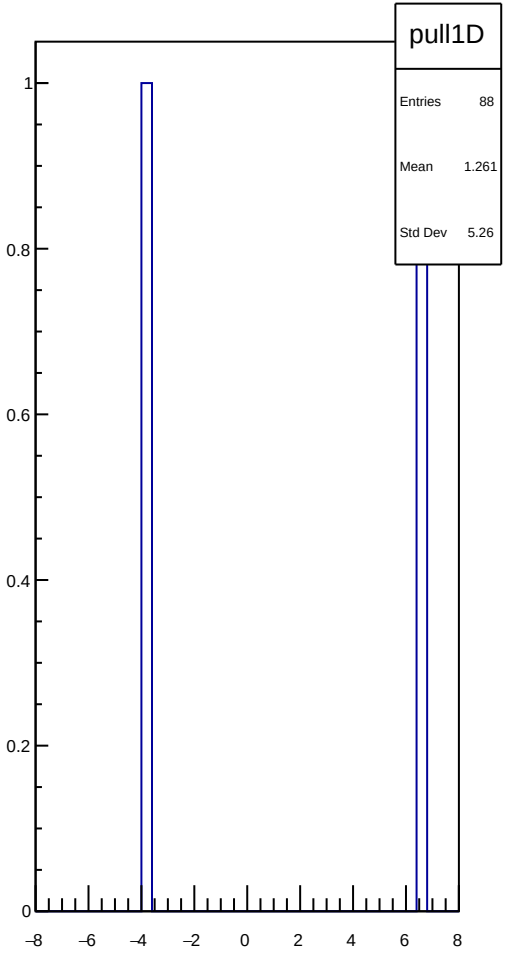

yield_bpm0l06Y_rms vs run
χ² / ndf 1.826e+05 / 87
p0 0.003175 ± 2.585e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002


yield_bpm0l07X_mean vs run
χ² / ndf 1.587e+07 / 87
p0 0.1083 ± 1.398e−05
0.2
0.15
0.1
0.05
0
pull
Entries 88
Mean −595.2
Std Dev 0
600
400
200
0
−200
−400
−600
−800

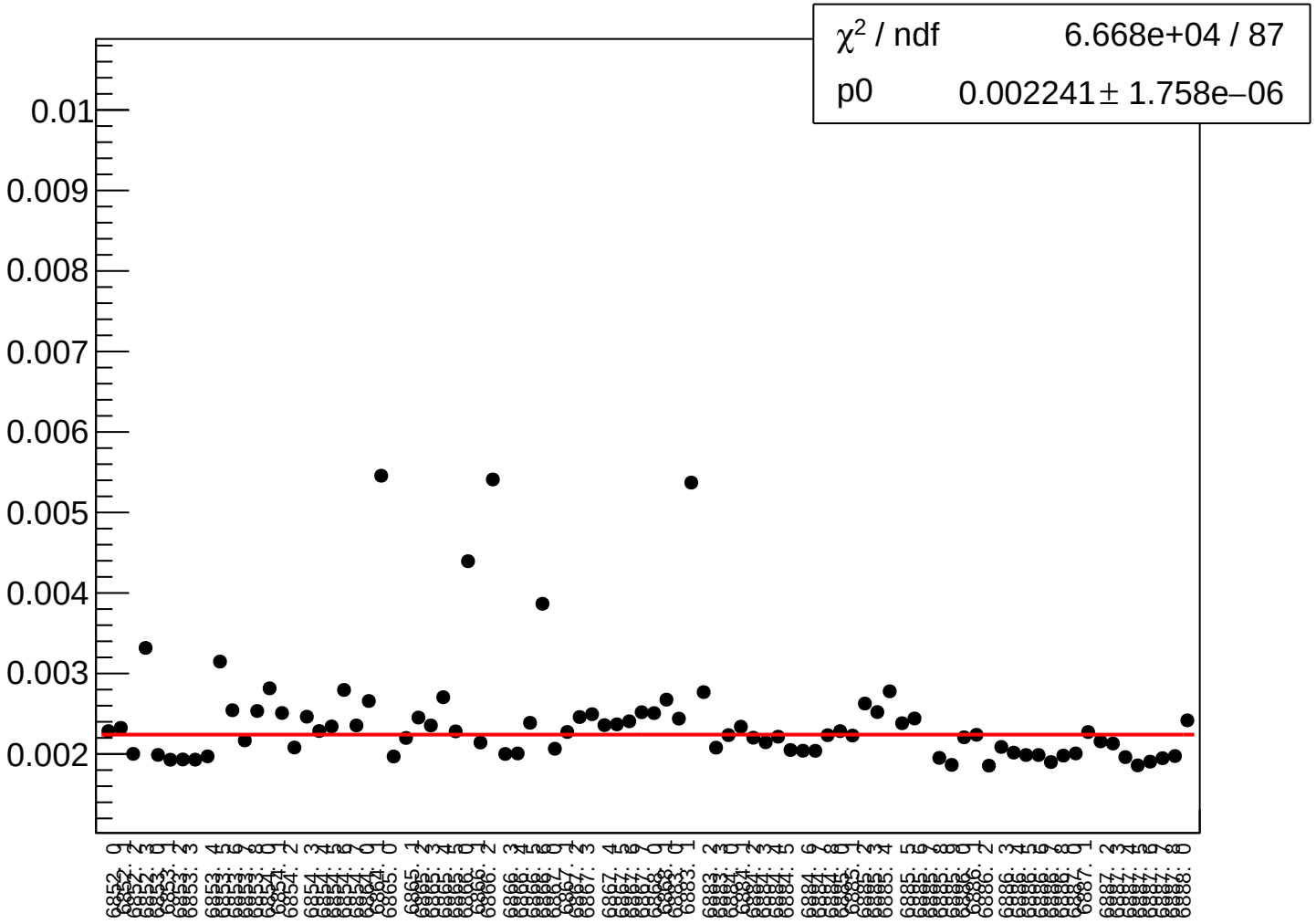

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

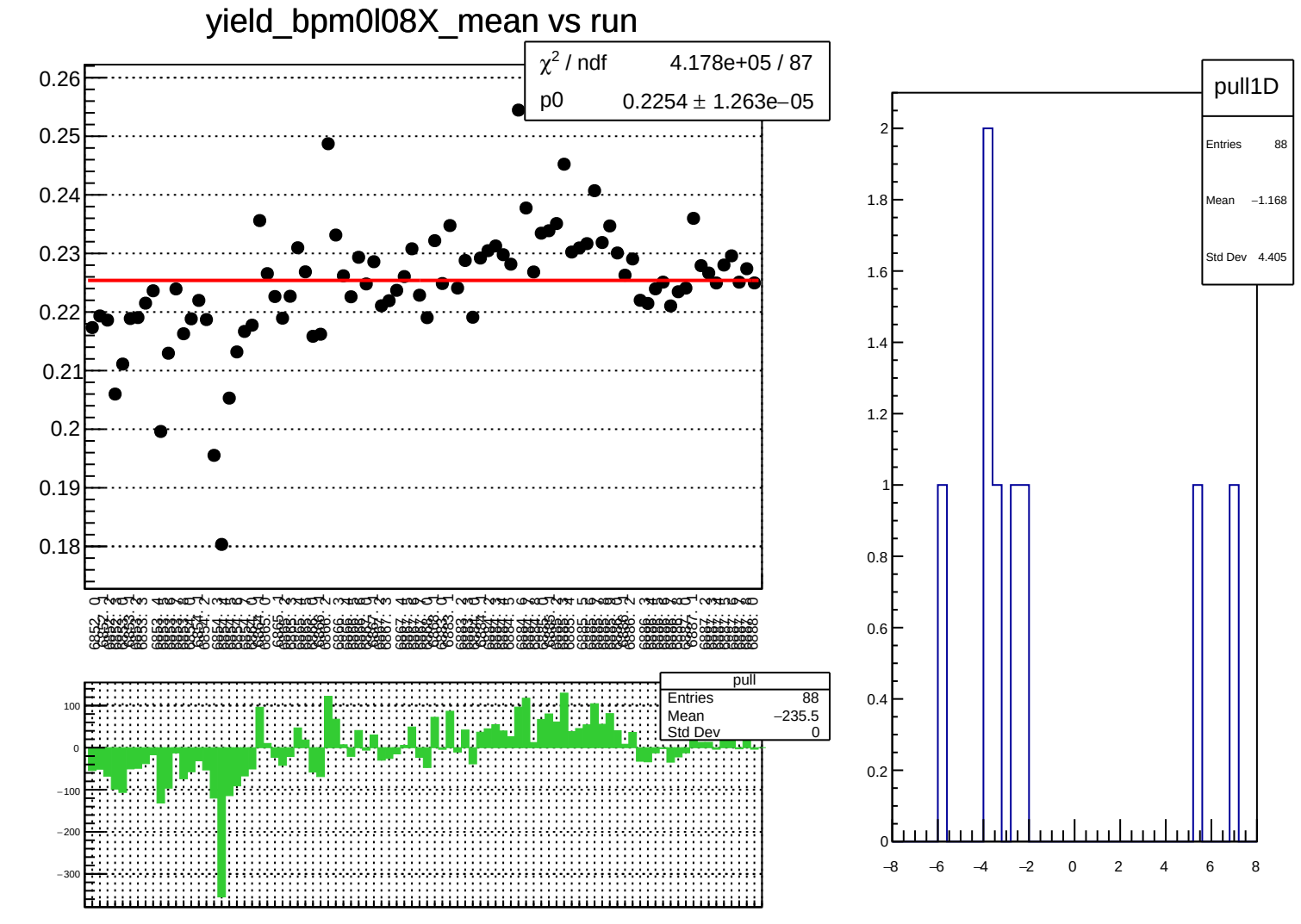

yield_bpm0l07X_rms vs run
χ² / ndf 5.562e+04 / 87
p0 0.01264 ± 9.888e–06
0.03
0.025
0.02
0.015
0.01

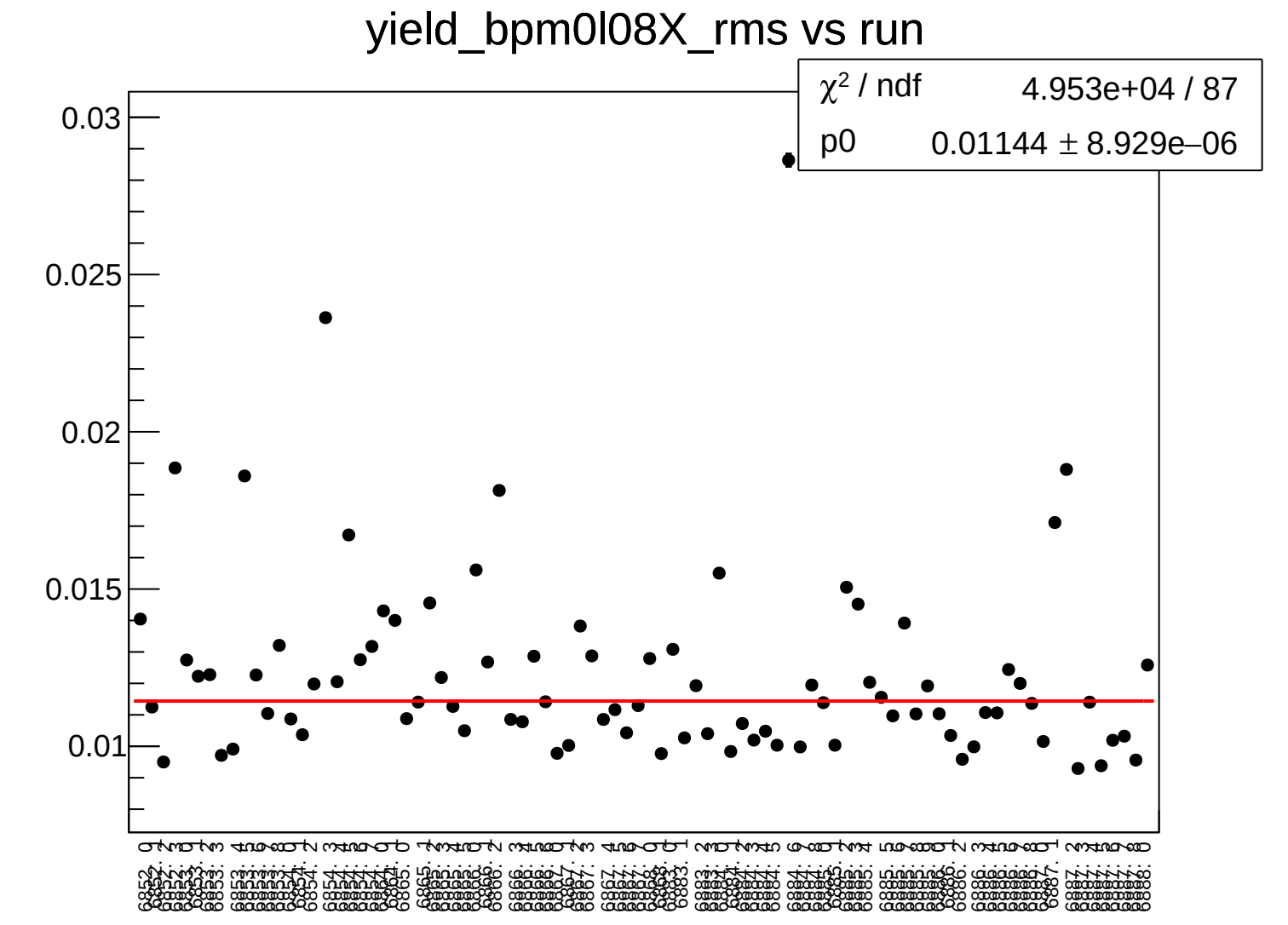

yield_bpm0l07Y_mean vs run
χ² / ndf 1.711e+08 / 87
p0 0.1537 ± 2.486e−06
0.18
0.16
0.14
0.12
0.1
pull
Entries 88
Mean −298.1
Std Dev 0
2000
1000
0
−1000
−2000
−3000

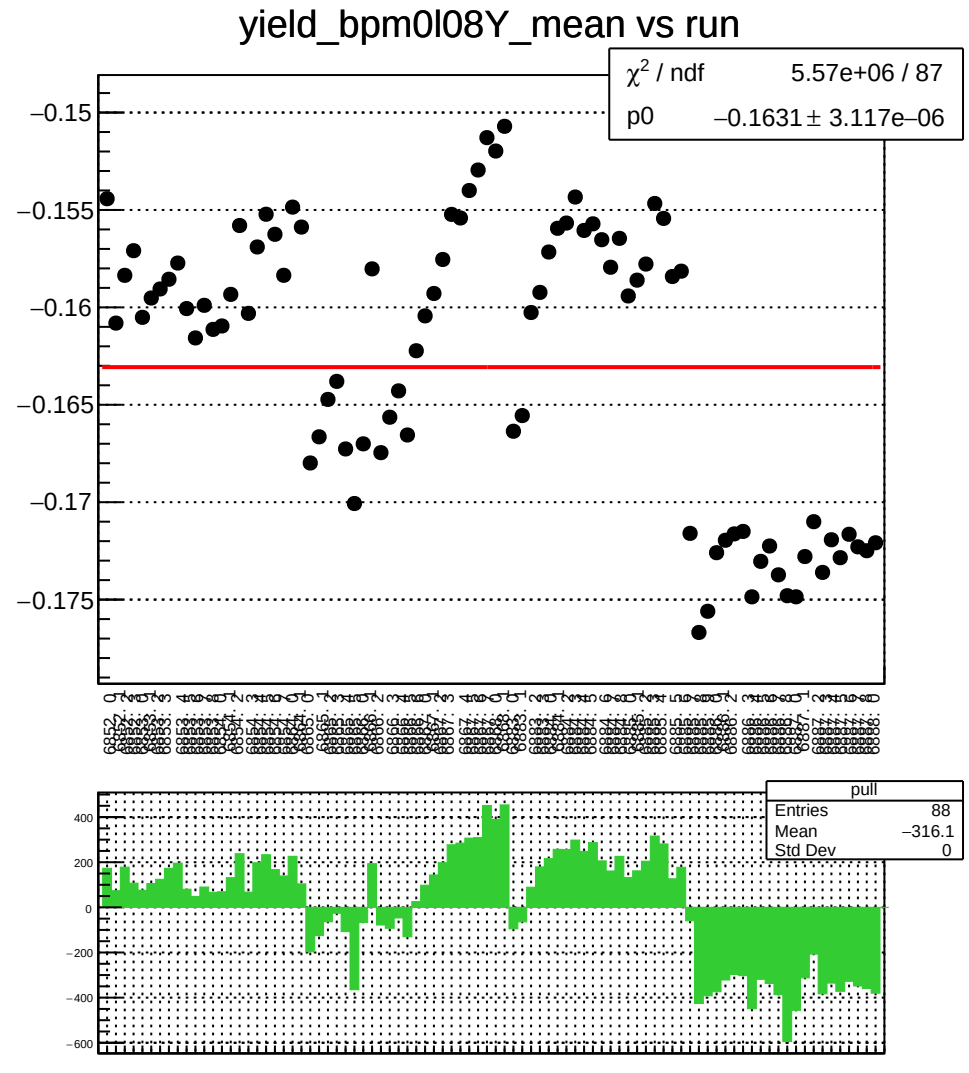

pull1D
Entries 88
Mean 1.261
Std Dev 5.26
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

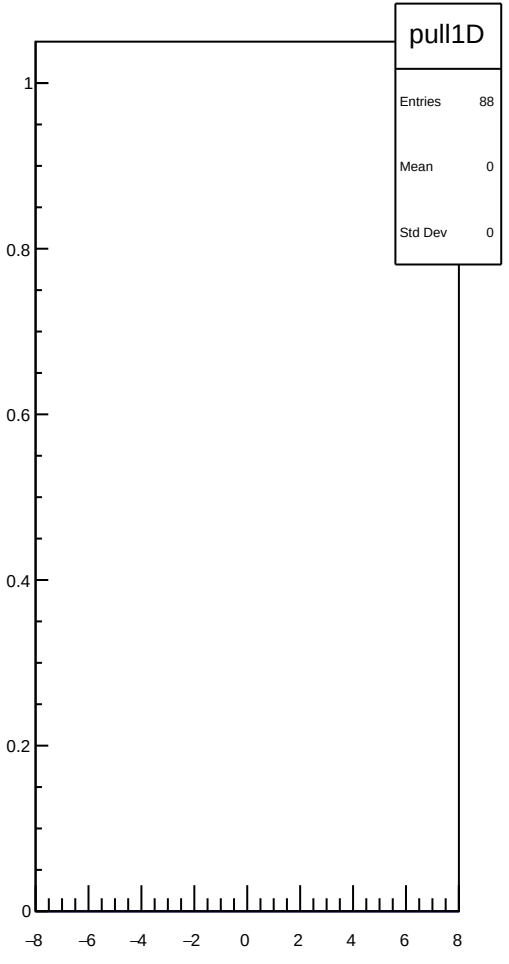
yield_bpm0l07Y_rms vs run



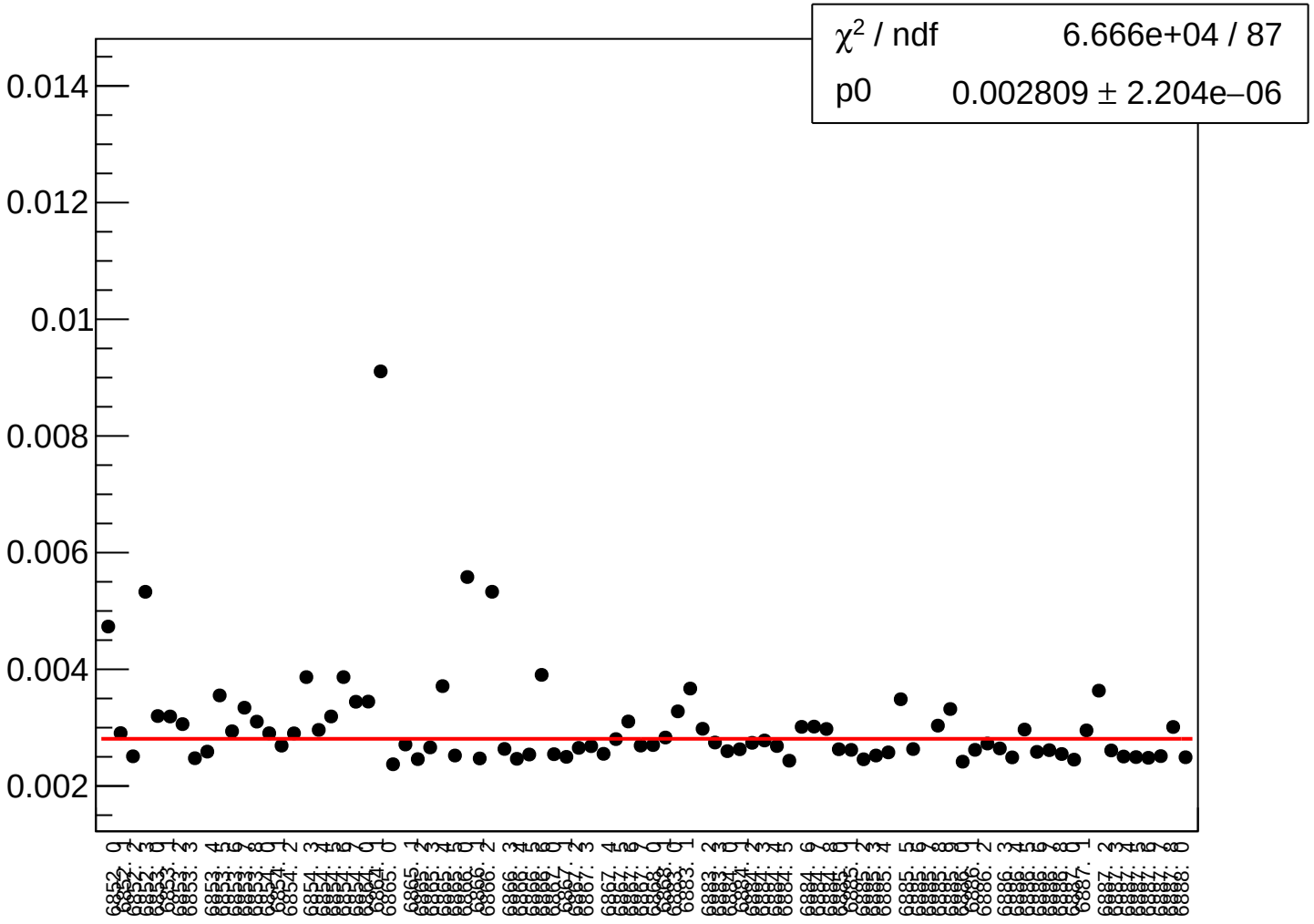

yield_bpm0l08X_mean vs run
χ² / ndf 4.178e+05 / 87
p0 0.2254 ± 1.263e−05
pull
Entries 88
Mean −235.5
Std Dev 0
pull1D
Entries 88
Mean −1.168
Std Dev 4.405

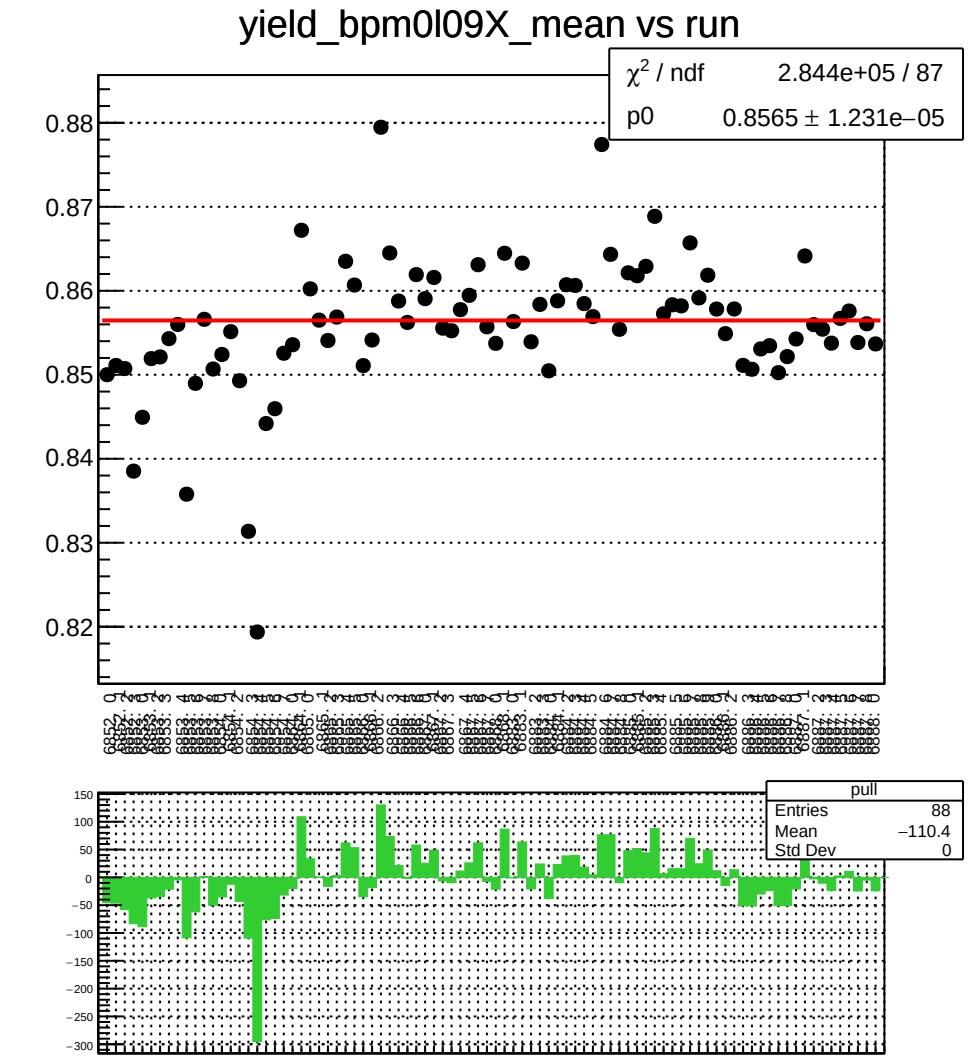

yield_bpm0l08X_rms vs run
χ² / ndf 4.953e+04 / 87
p0 0.01144 ± 8.929e–06
0.03
0.025
0.02
0.015
0.01

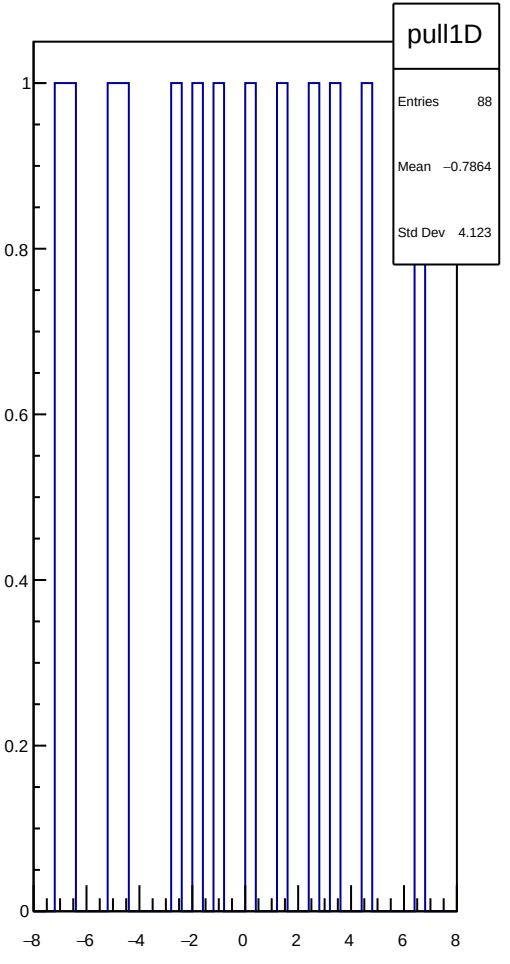

yield_bpm0l08Y_mean vs run
χ² / ndf 5.57e+06 / 87
p0 −0.1631 ± 3.117e−06
−0.15
−0.155
−0.16
−0.165
−0.17
−0.175
pull
Entries 88
Mean −316.1
Std Dev 0
400
200
0
−200
−400
−600

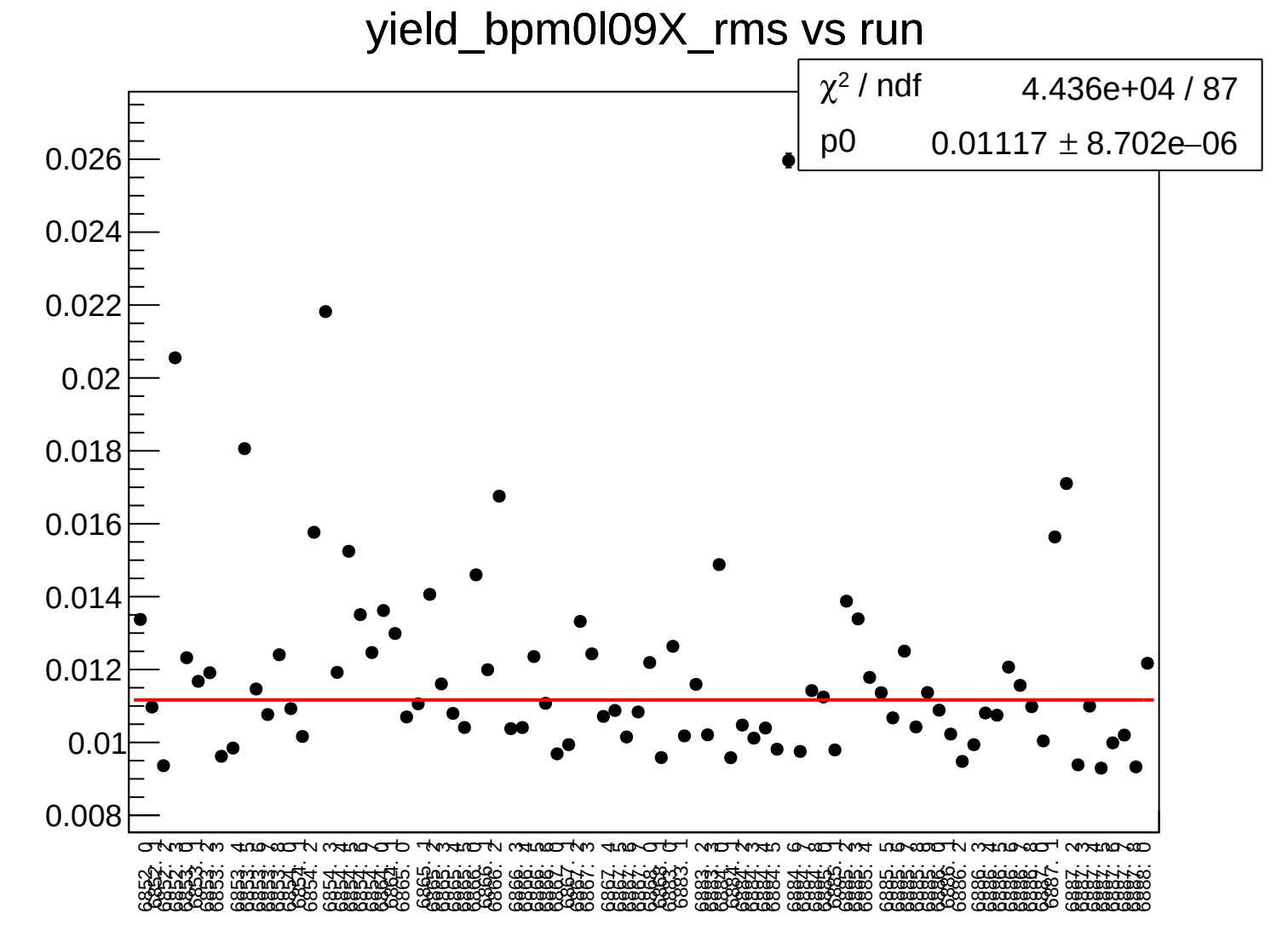

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

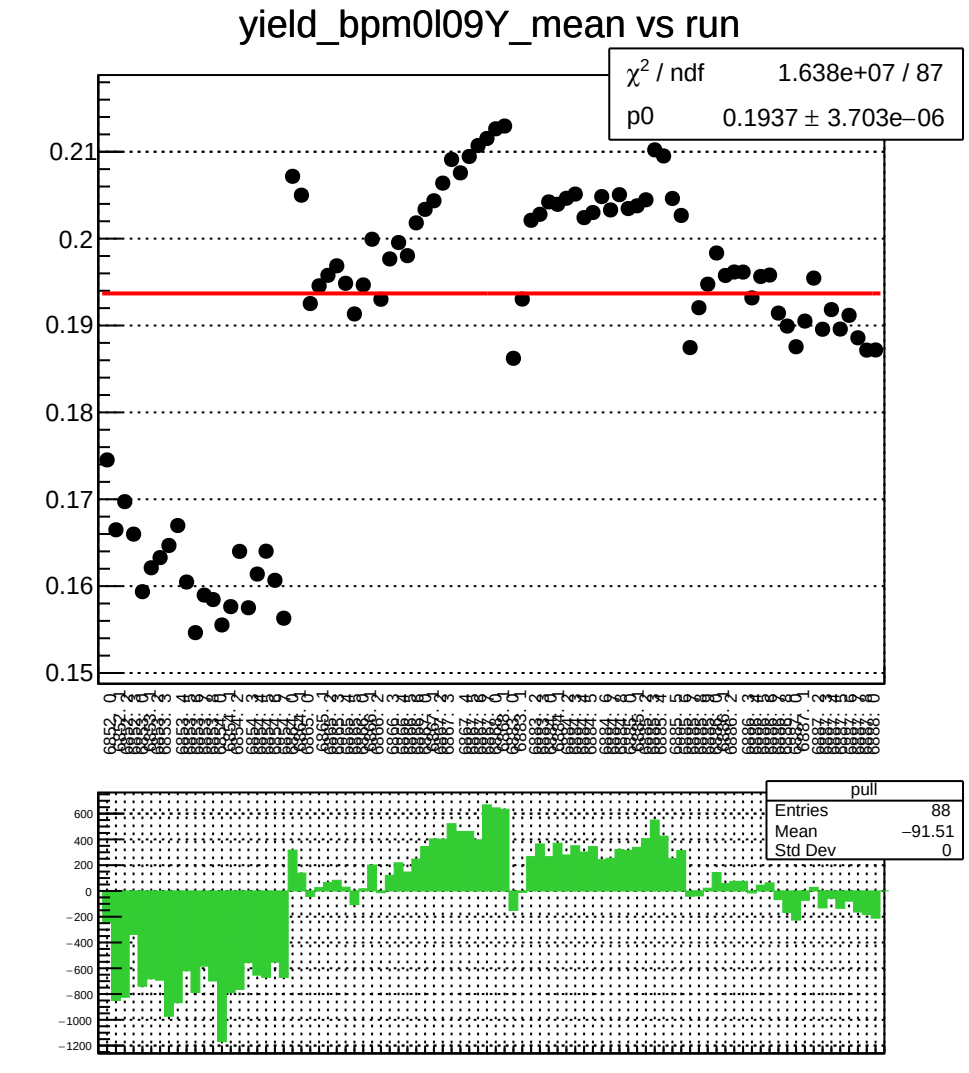
yield_bpm0l08Y_rms vs run

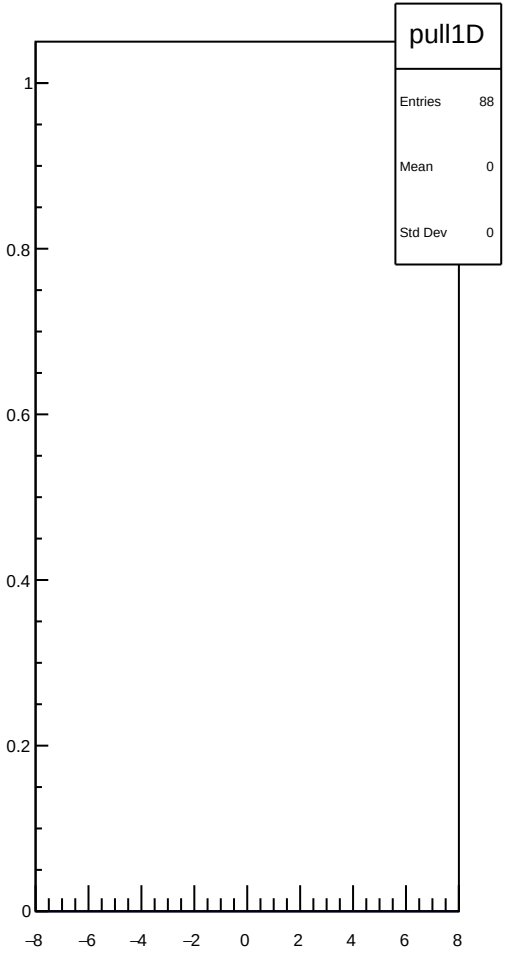



yield_bpm0l09X_mean vs run
χ² / ndf 2.844e+05 / 87
p0 0.8565 ± 1.231e−05
0.88
0.87
0.86
0.85
0.84
0.83
0.82
pull
Entries 88
Mean −110.4
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250
−300

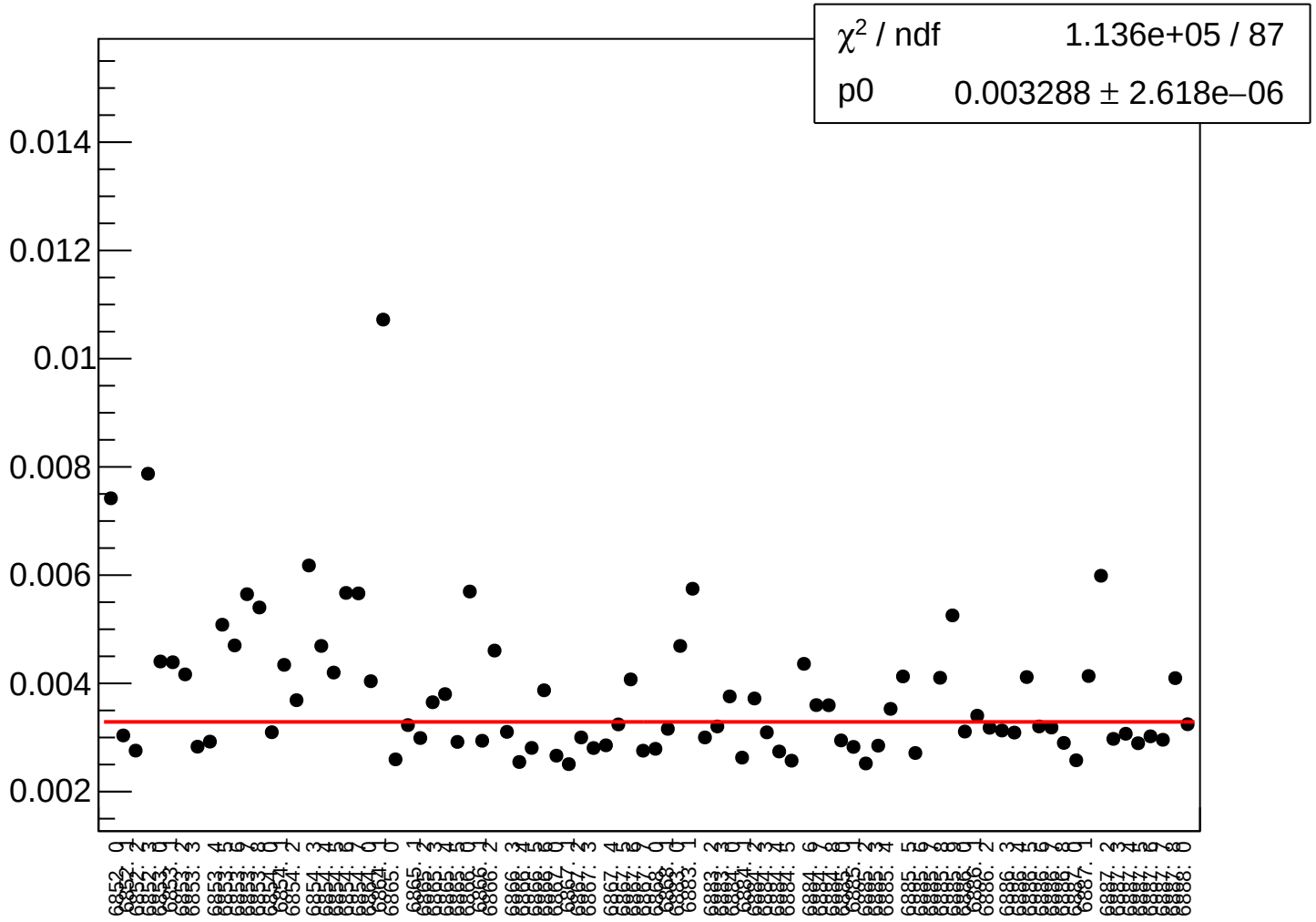

pull1D
Entries 88
Mean −0.7864
Std Dev 4.123
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

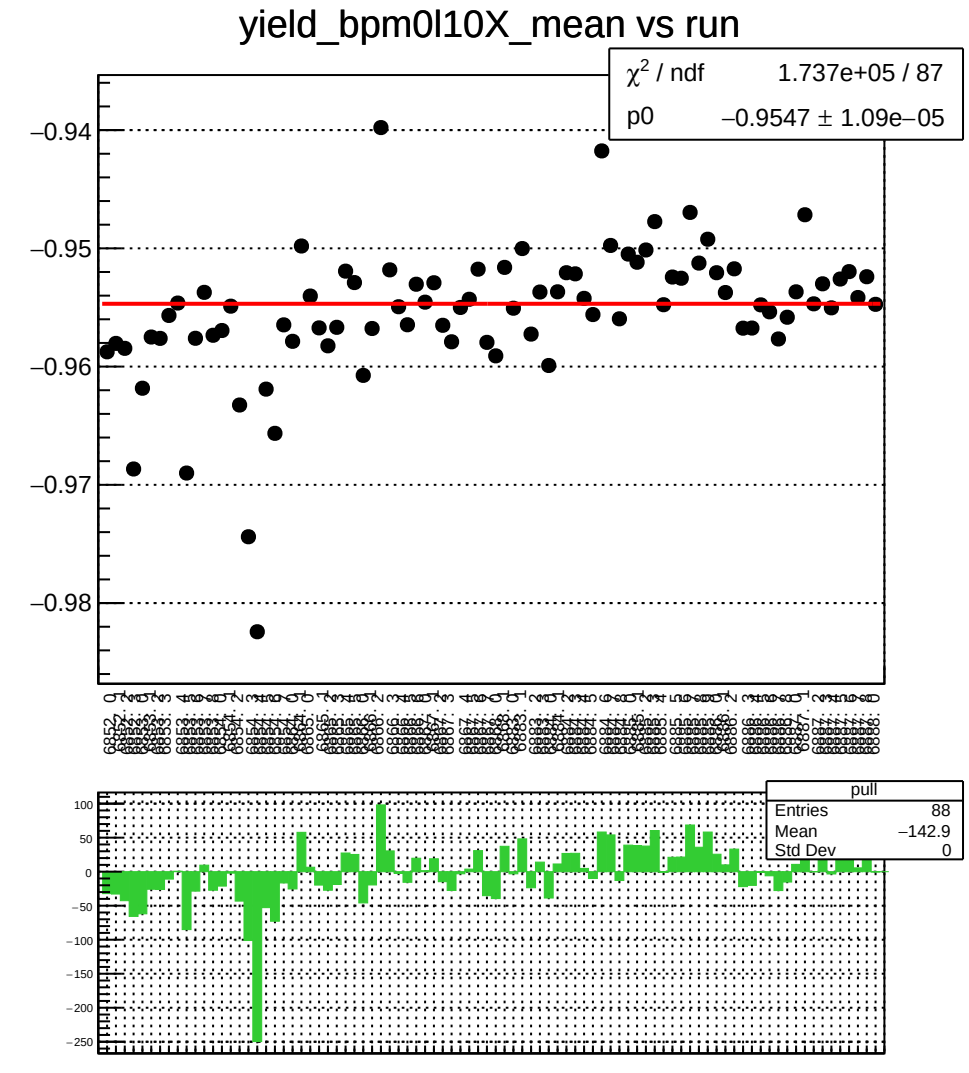

yield_bpm0l09X_rms vs run
χ² / ndf 4.436e+04 / 87
p0 0.01117 ± 8.702e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

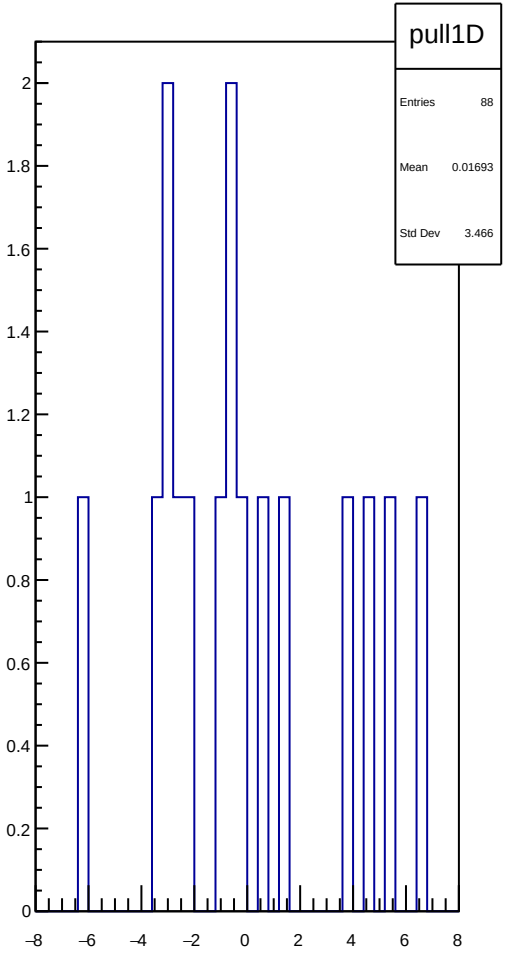

yield_bpm0l09Y_mean vs run
χ² / ndf 1.638e+07 / 87
p0 0.1937 ± 3.703e−06
0.21
0.2
0.19
0.18
0.17
0.16
0.15
pull
Entries 88
Mean −91.51
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

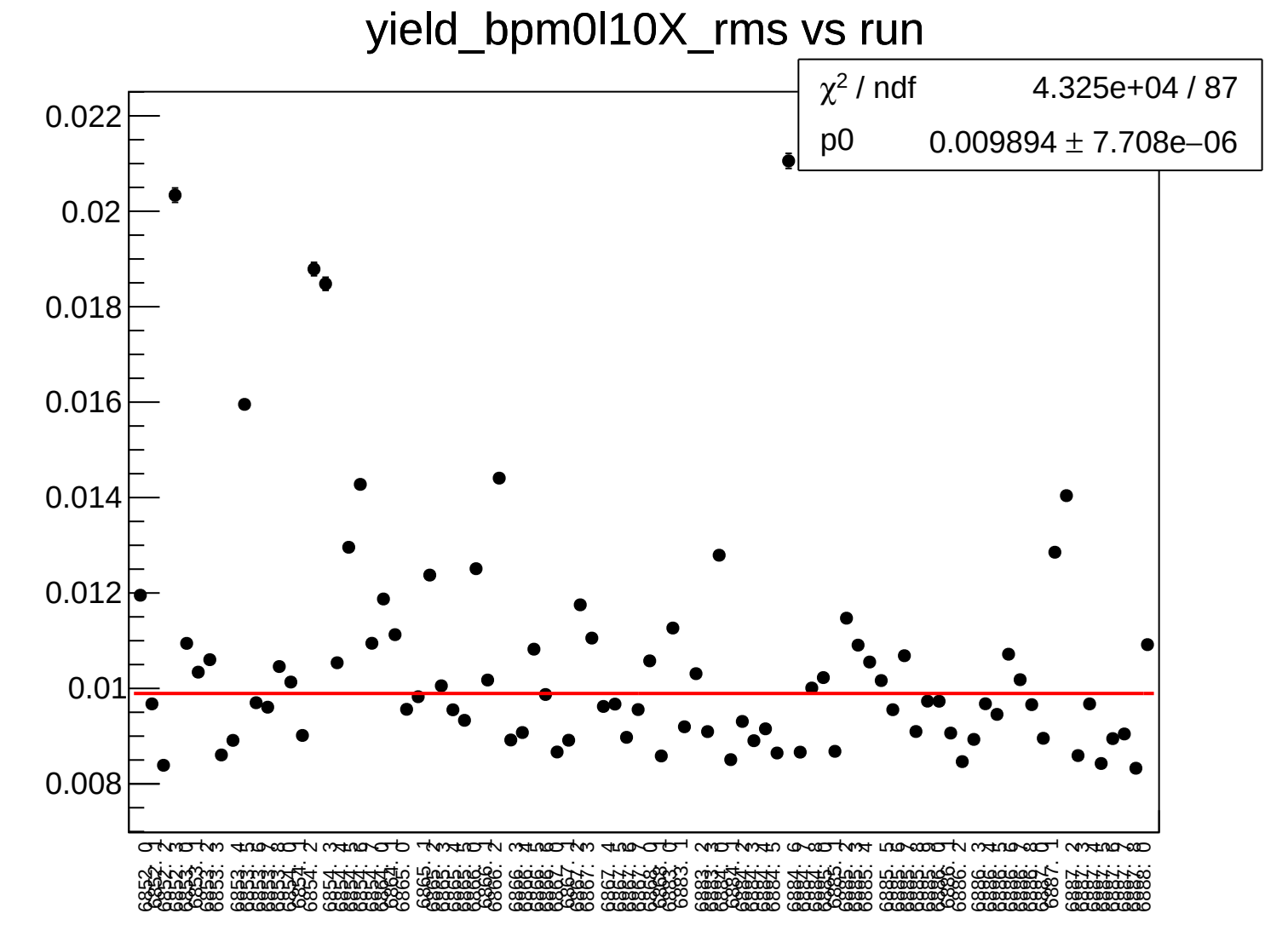

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

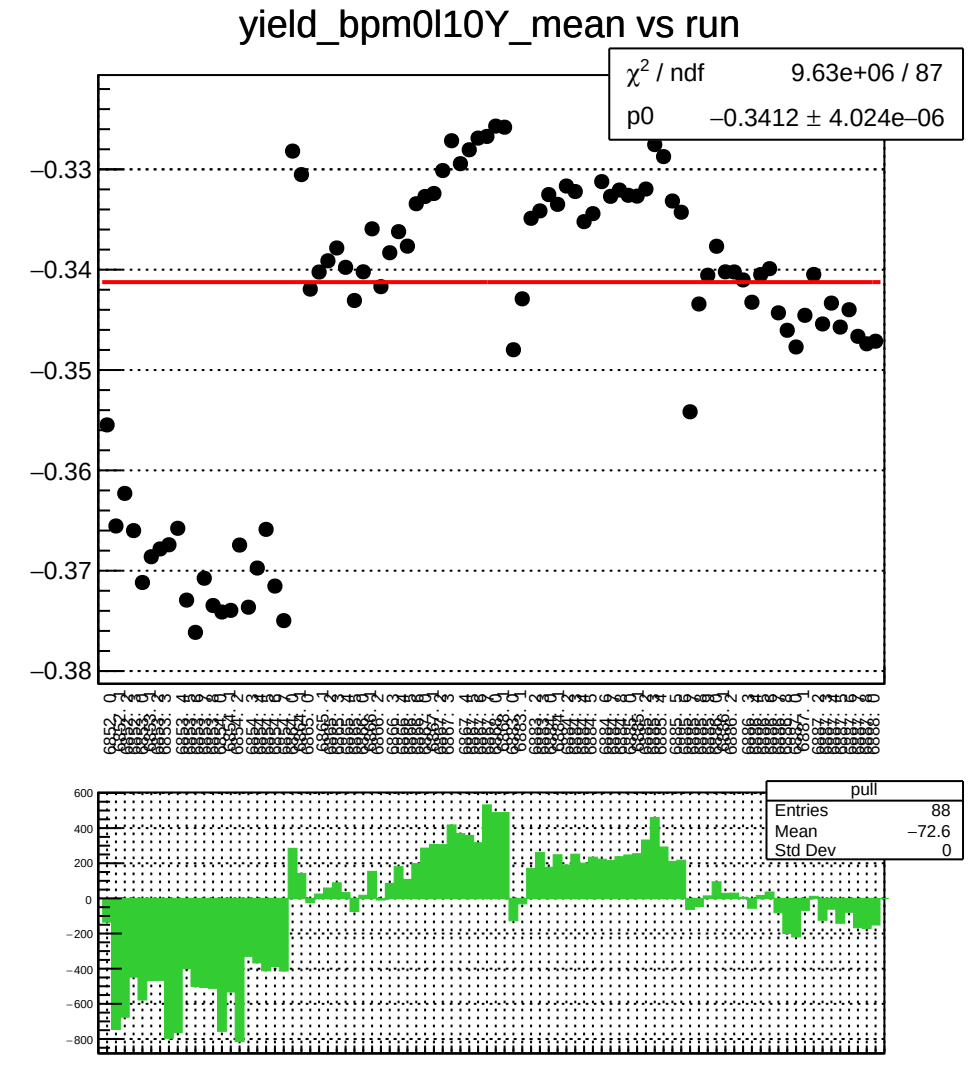
yield_bpm0l09Y_rms vs run

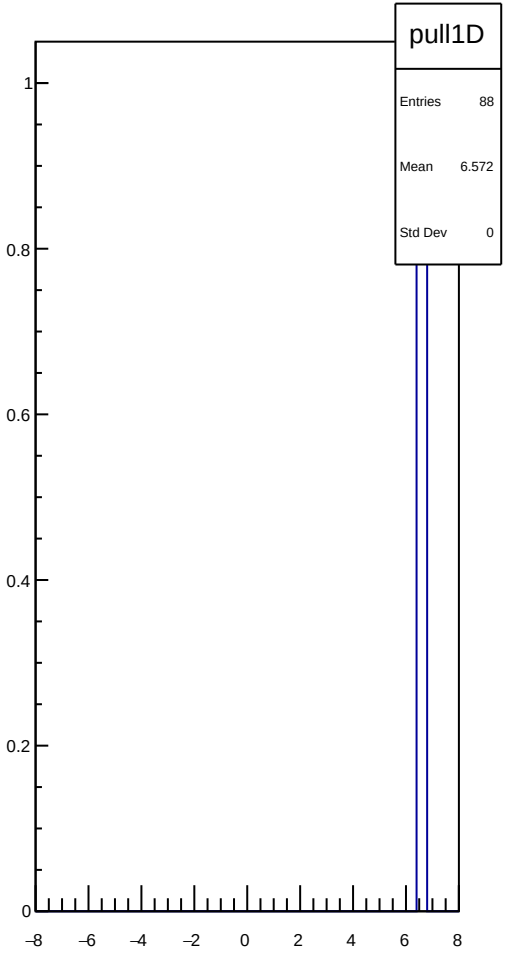


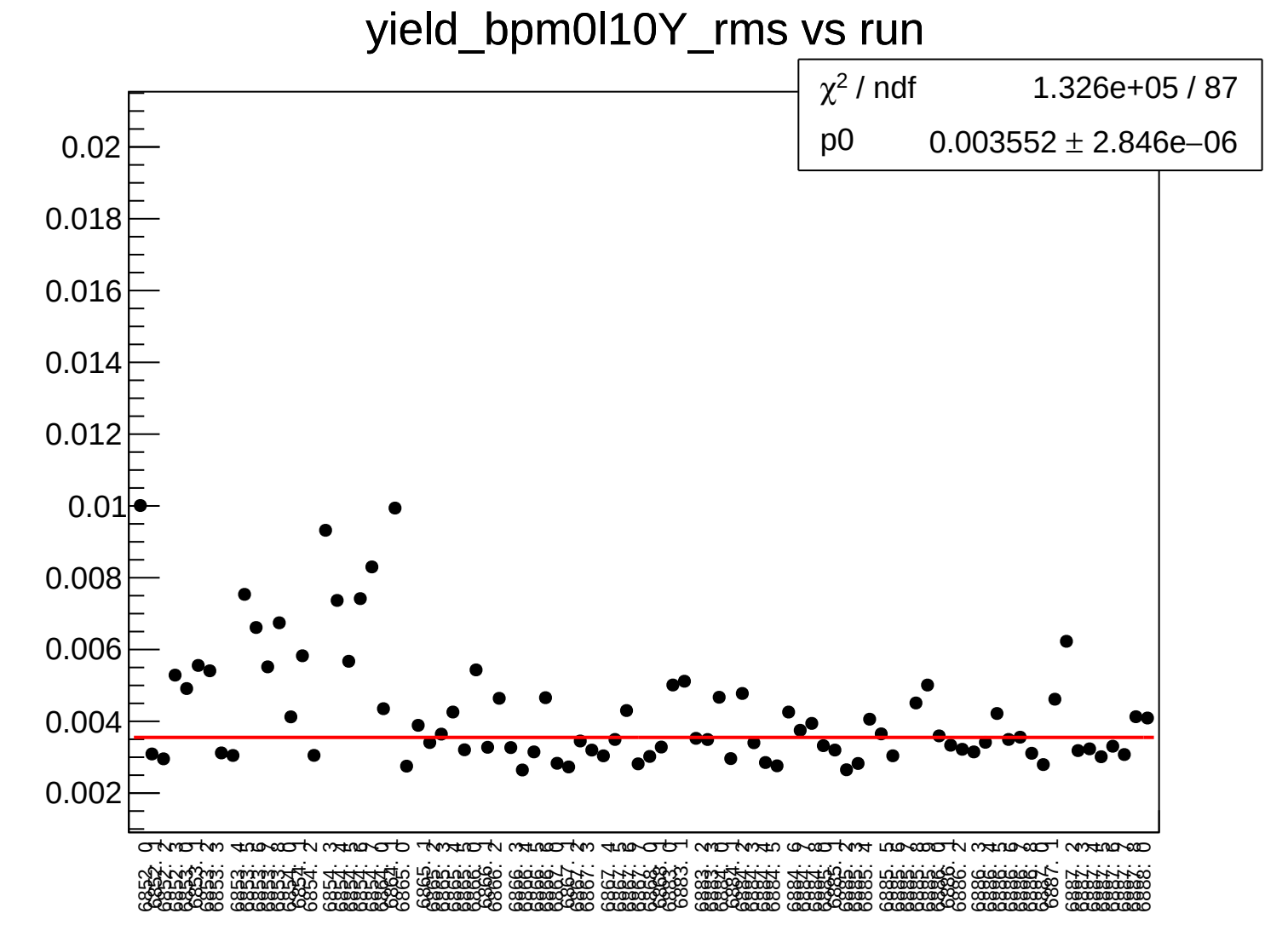

yield_bpm0l10X_mean vs run
χ² / ndf 1.737e+05 / 87
p0 −0.9547 ± 1.09e−05
−0.94
−0.95
−0.96
−0.97
−0.98
pull
Entries 88
Mean −142.9
Std Dev 0
100
50
0
−50
−100
−150
−200
−250

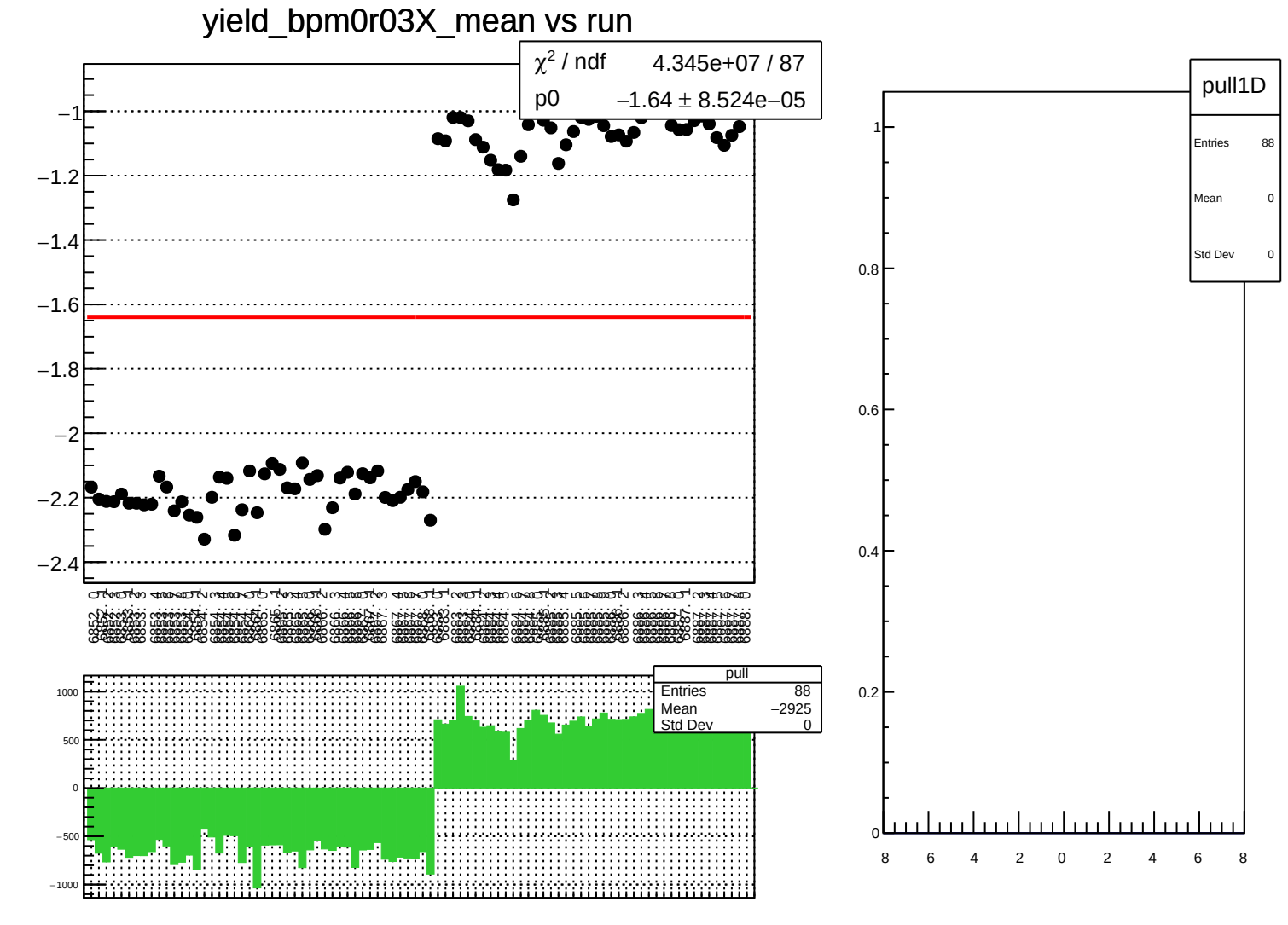

pull1D
Entries 88
Mean 0.01693
Std Dev 3.466
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

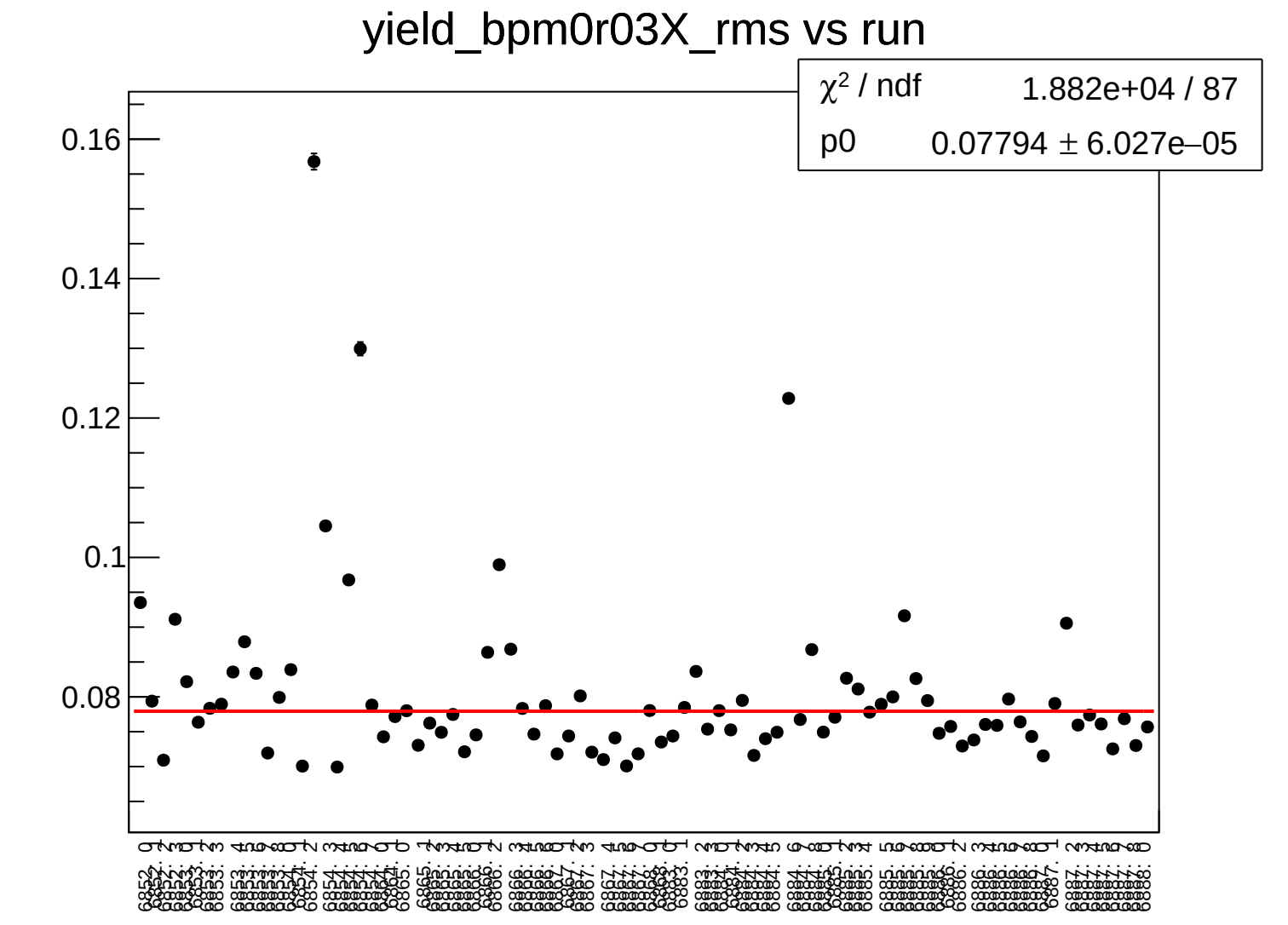

yield_bpm0l10X_rms vs run
χ² / ndf 4.325e+04 / 87
p0 0.009894 ± 7.708e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

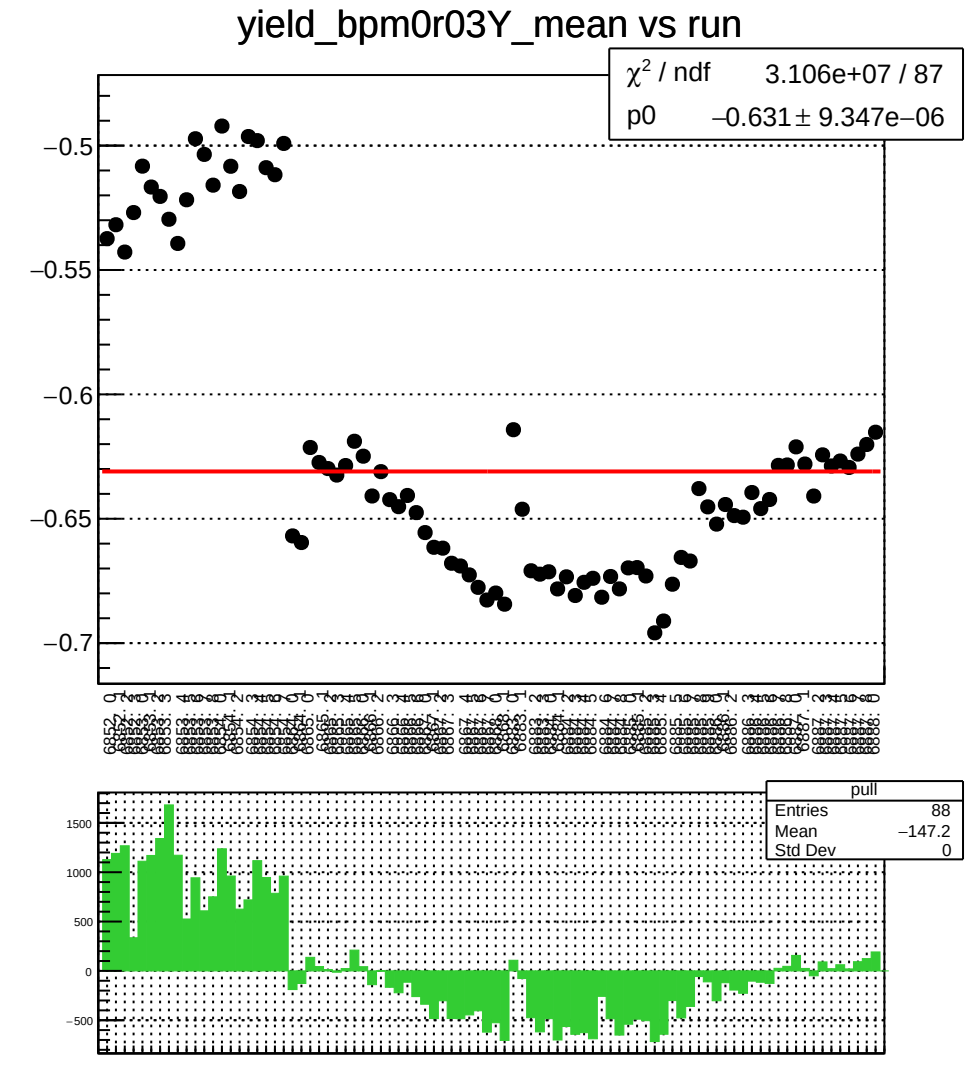

yield_bpm0l10Y_mean vs run
χ² / ndf 9.63e+06 / 87
p0 −0.3412 ± 4.024e−06
−0.33
−0.34
−0.35
−0.36
−0.37
−0.38
pull
Entries 88
Mean −72.6
Std Dev 0
600
400
200
0
−200
−400
−600
−800

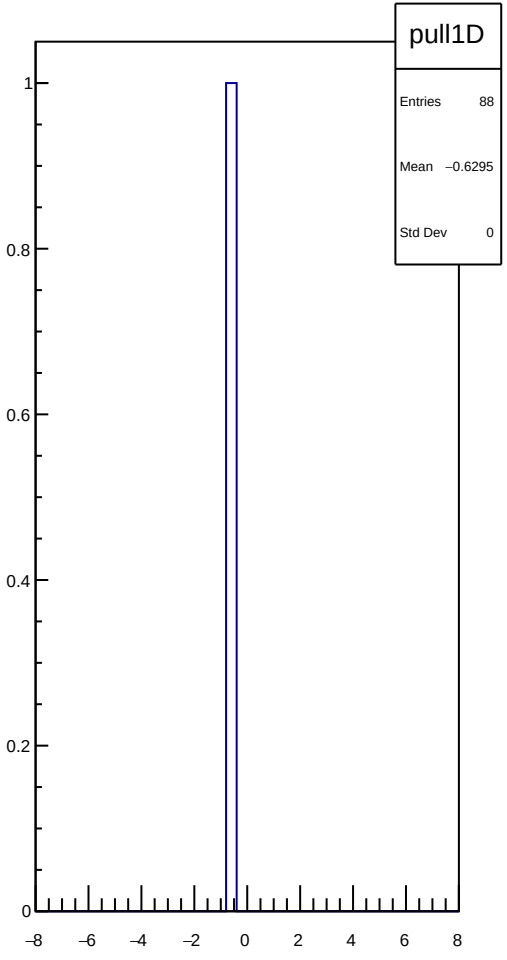

pull1D
Entries 88
Mean 6.572
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

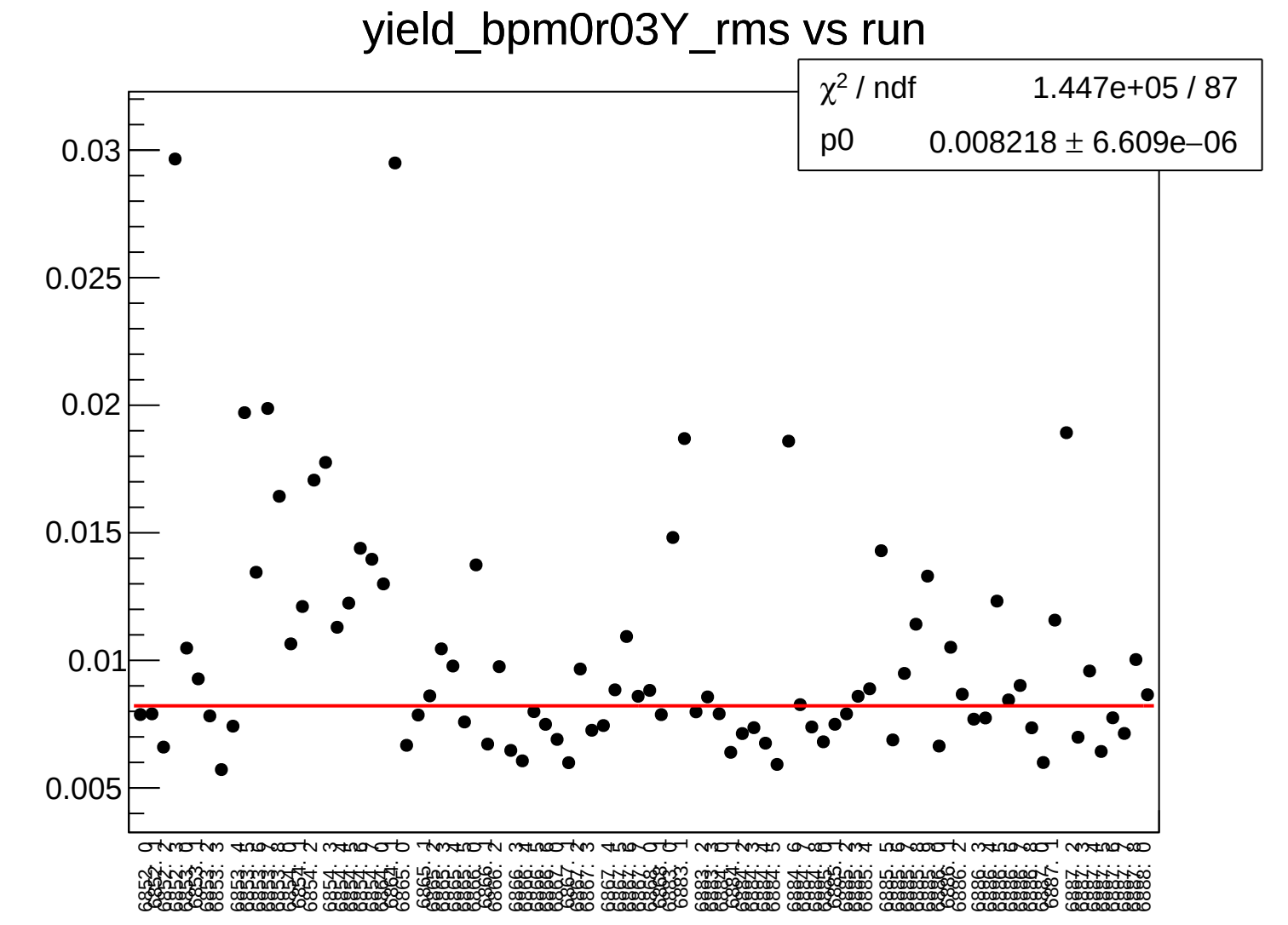

yield_bpm0l10Y_rms vs run
χ^2 / ndf 1.326e+05 / 87
p0 0.003552 ± 2.846e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

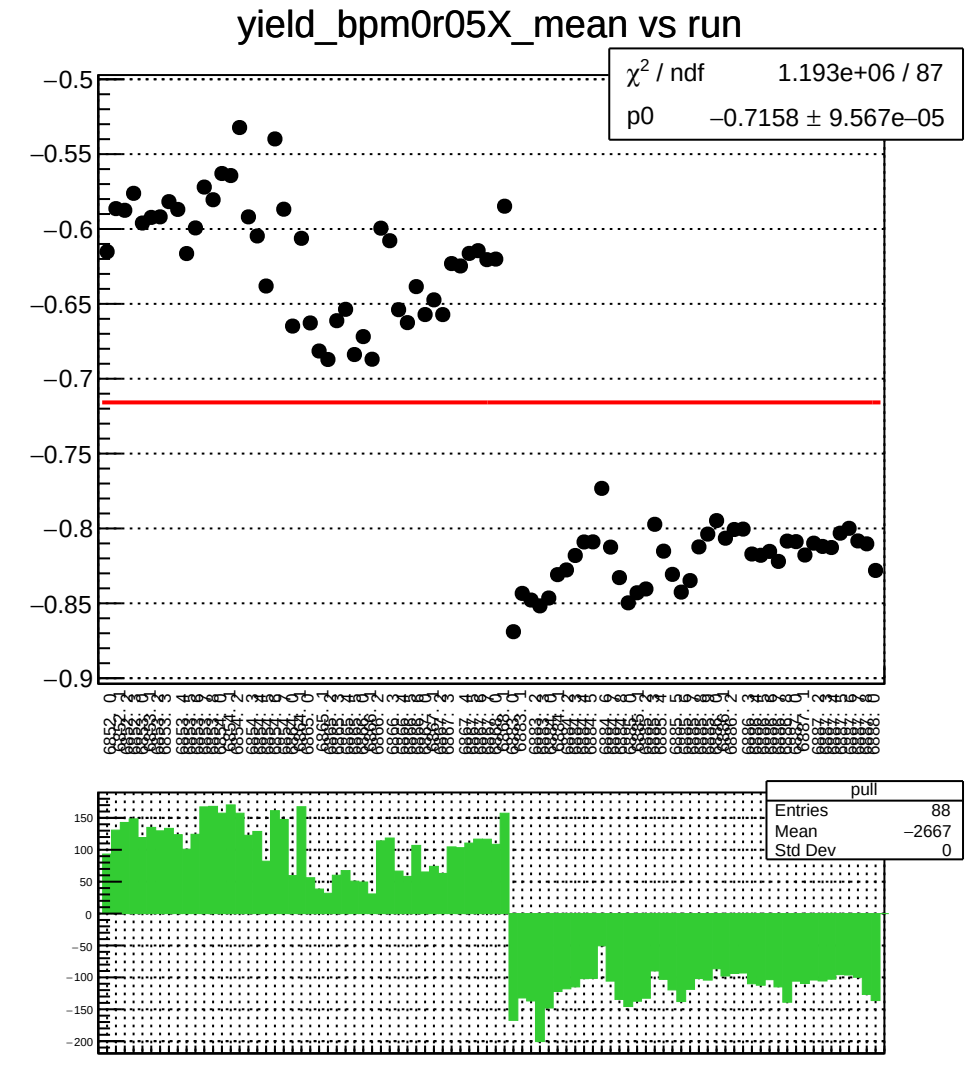

yield_bpm0r03X_mean vs run
χ² / ndf 4.345e+07 / 87
p0 −1.64 ± 8.524e−05
−1
−1.2
−1.4
−1.6
−1.8
−2
−2.2
−2.4
pull
Entries 88
Mean −2925
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

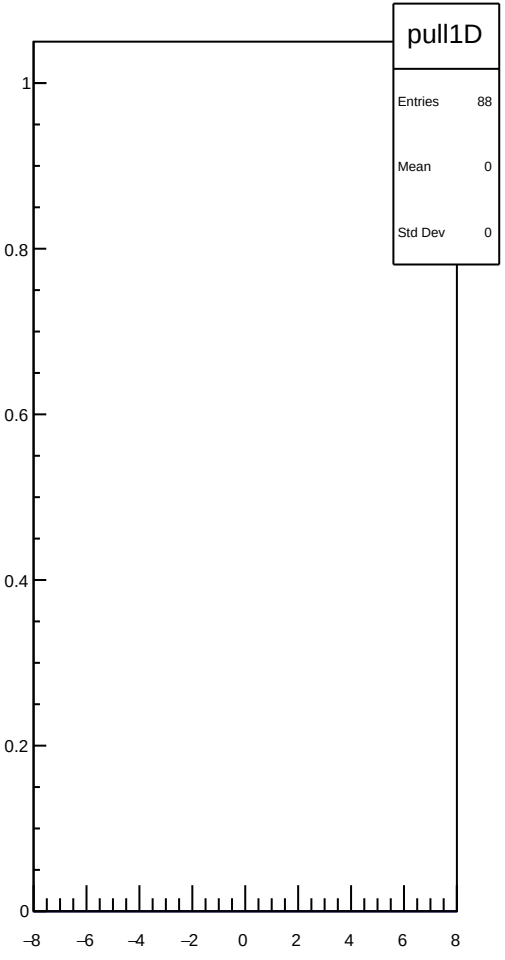

yield_bpm0r03X_rms vs run
χ² / ndf 1.882e+04 / 87
p0 0.07794 ± 6.027e–05
0.16
0.14
0.12
0.1
0.08


yield_bpm0r03Y_mean vs run
χ² / ndf 3.106e+07 / 87
p0 −0.631 ± 9.347e−06
−0.5
−0.55
−0.6
−0.65
−0.7
pull
Entries 88
Mean −147.2
Std Dev 0
1500
1000
500
0
−500

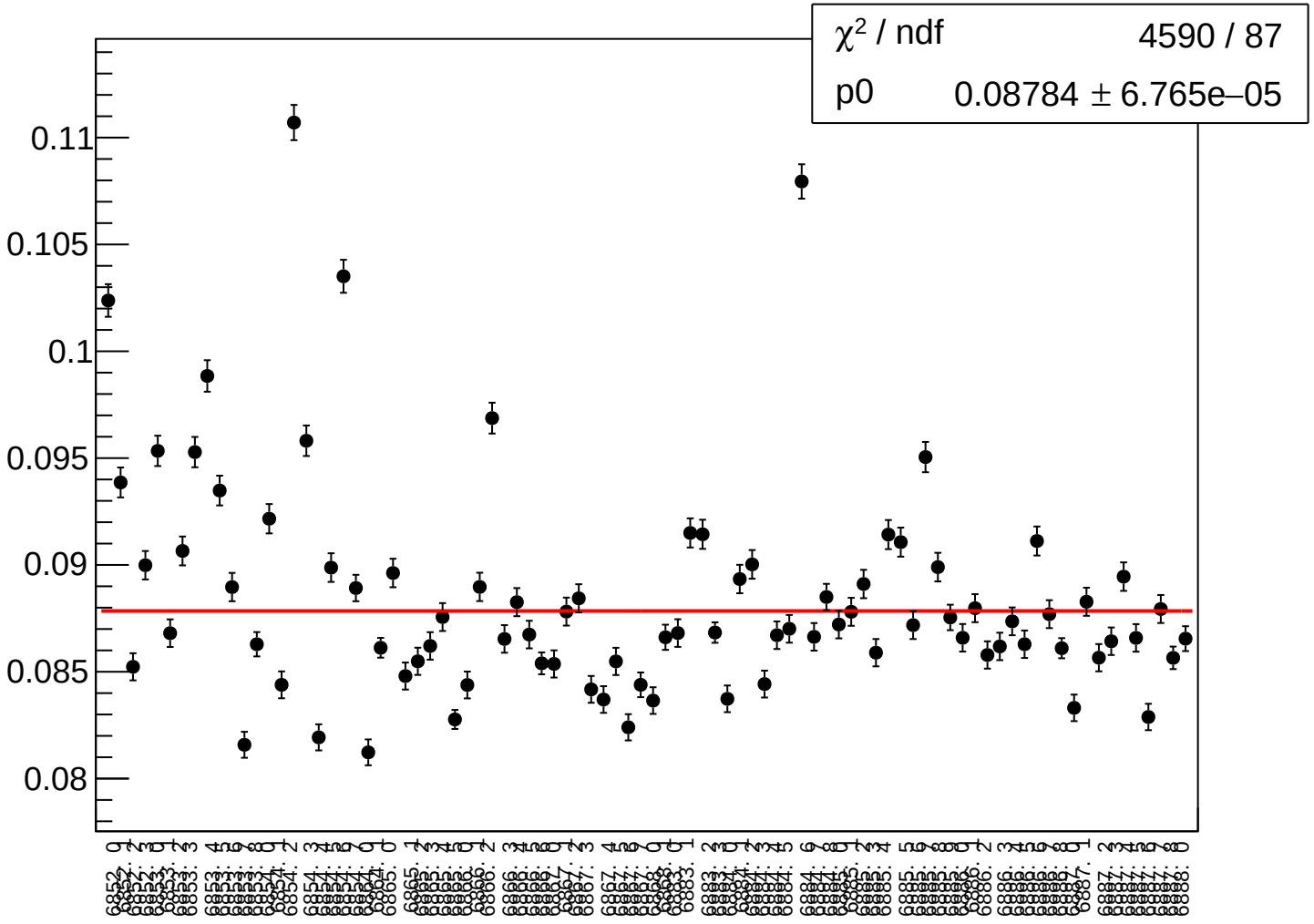

pull1D
Entries 88
Mean −0.6295
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

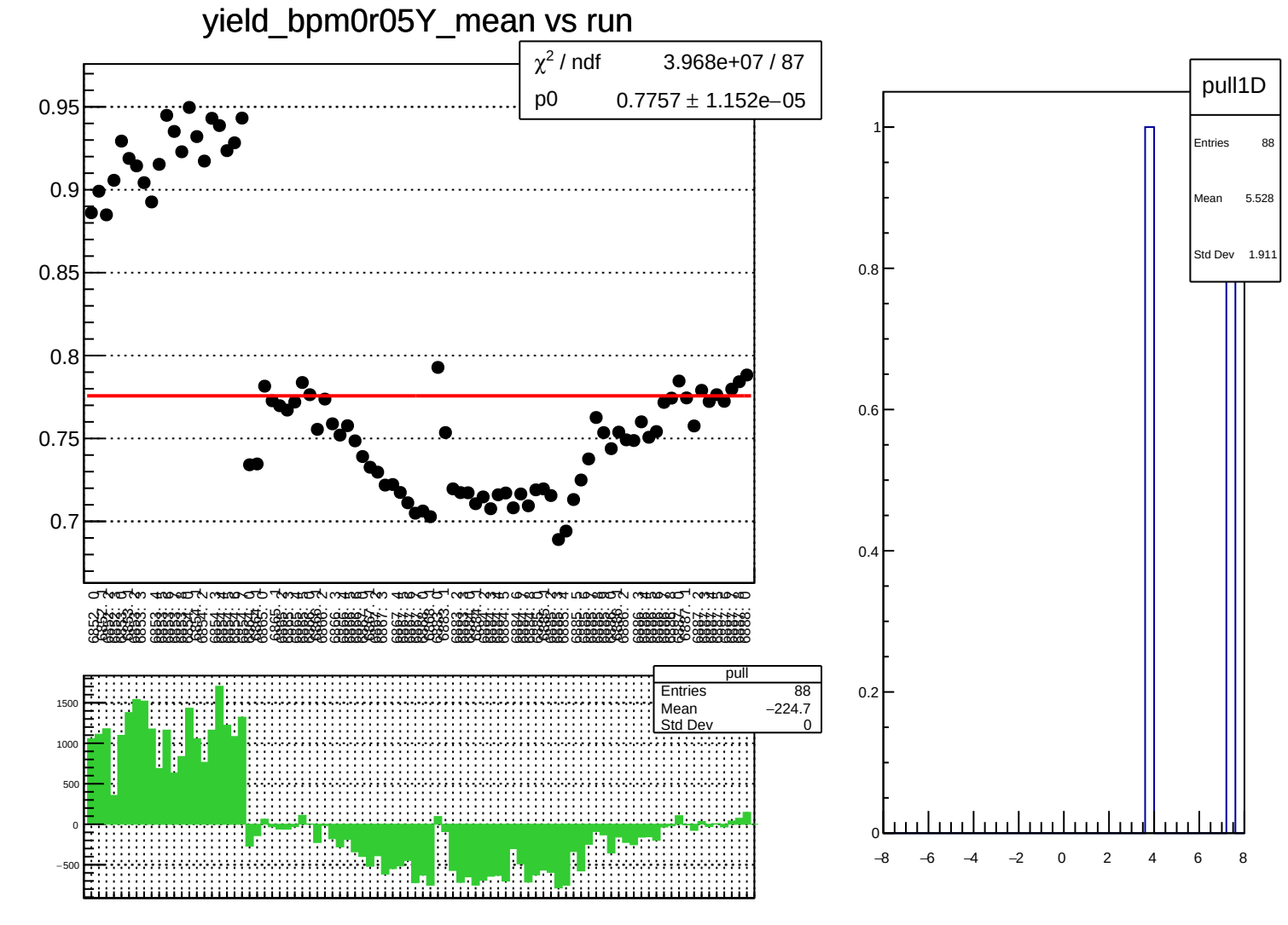

yield_bpm0r03Y_rms vs run
χ² / ndf 1.447e+05 / 87
p0 0.008218 ± 6.609e−06
0.03
0.025
0.02
0.015
0.01
0.005

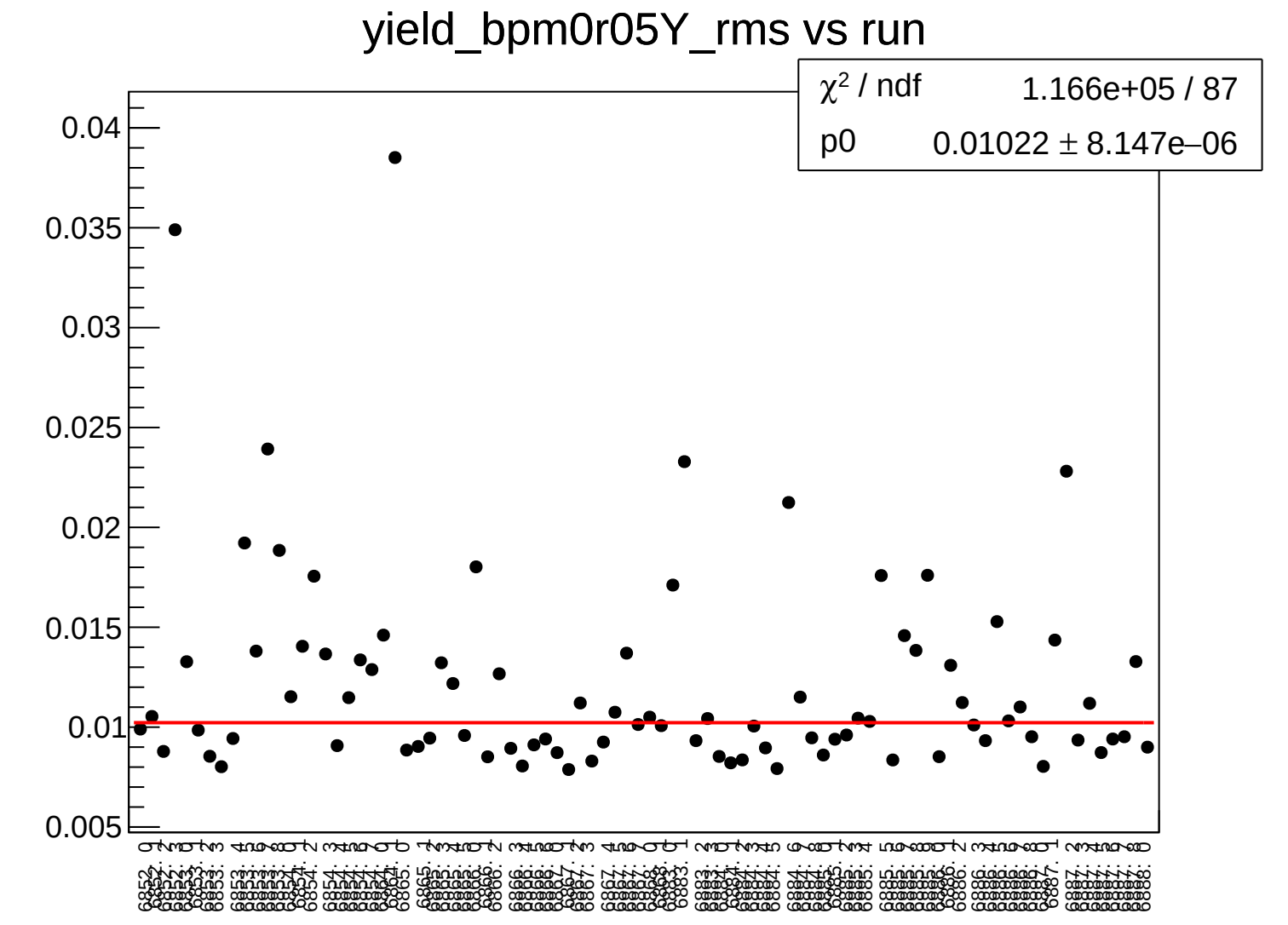

yield_bpm0r05X_mean vs run
χ² / ndf 1.193e+06 / 87
p0 −0.7158 ± 9.567e−05
pull
Entries 88
Mean −2667
Std Dev 0

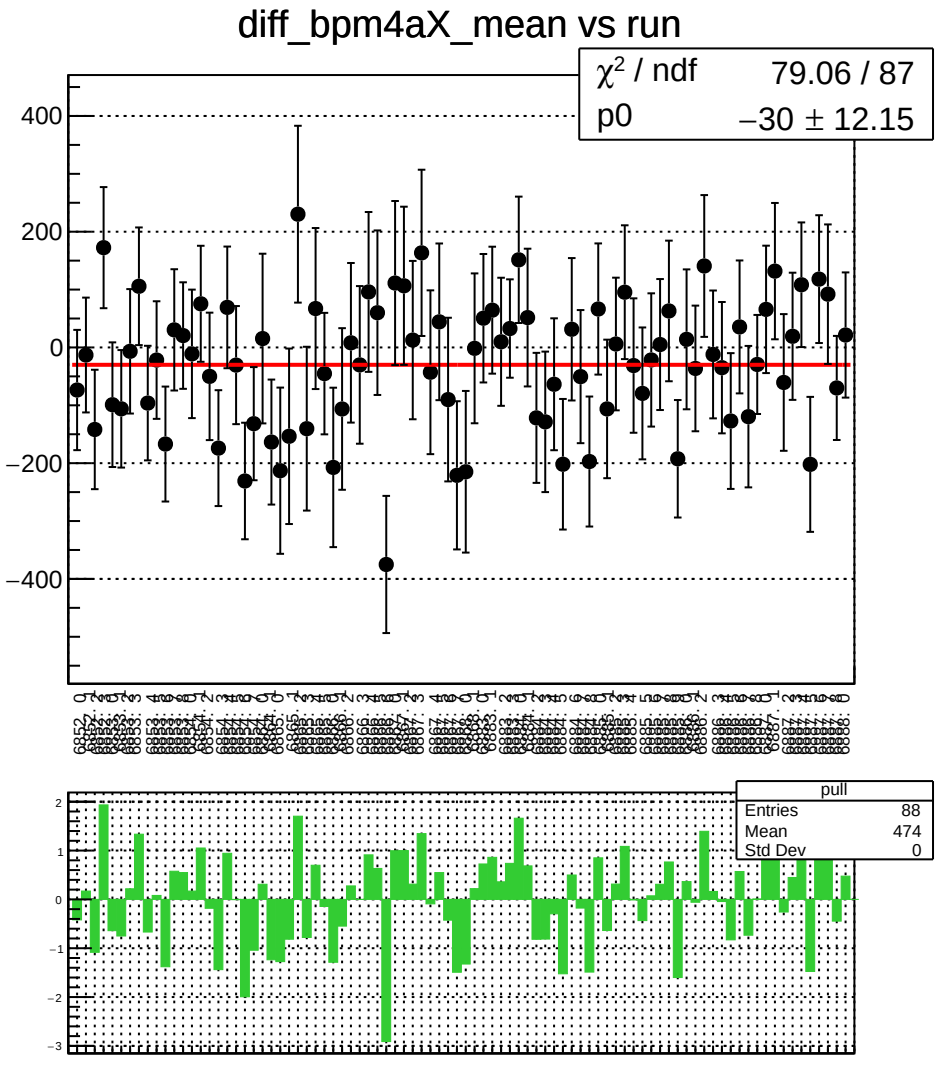

pull1D
Entries 88
Mean 0
Std Dev 0

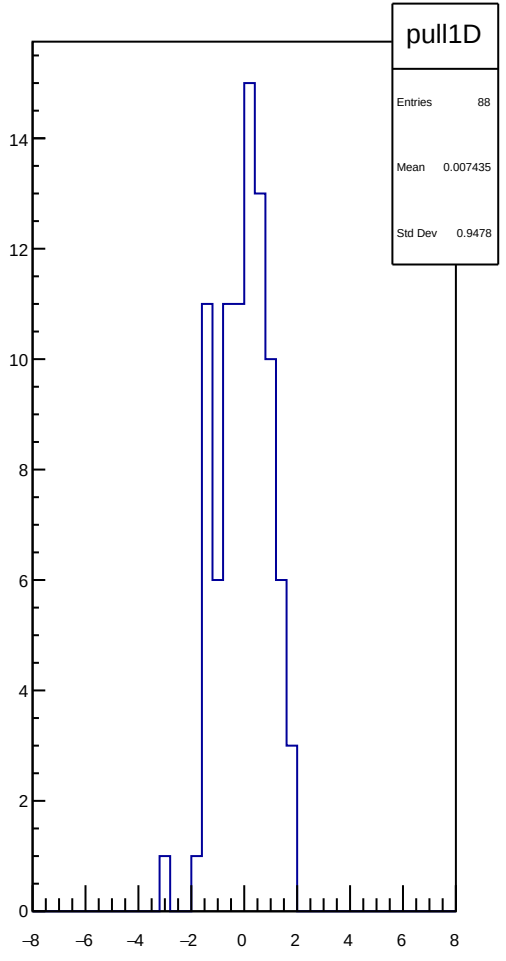
yield_bpm0r05X_rms vs run

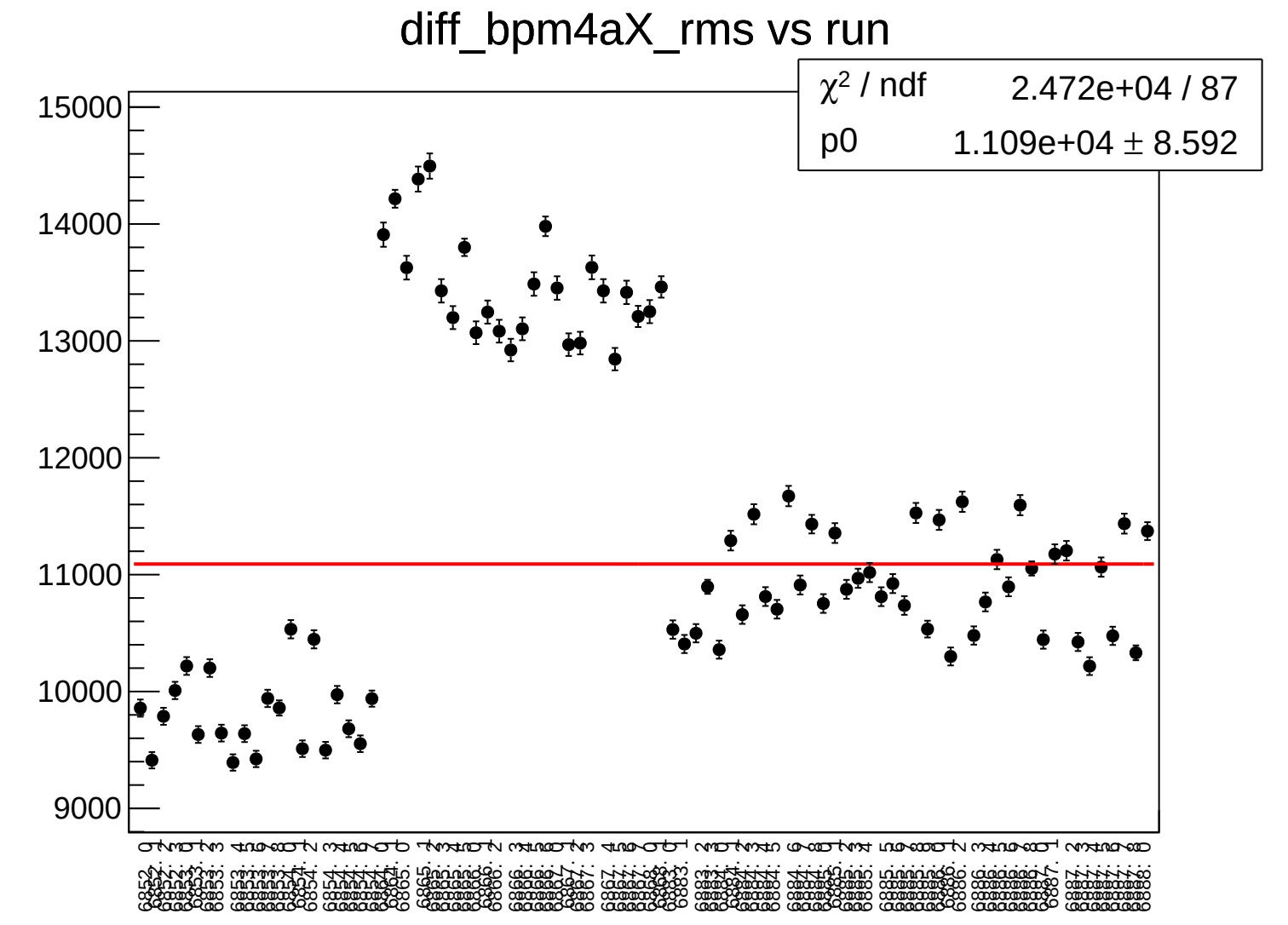


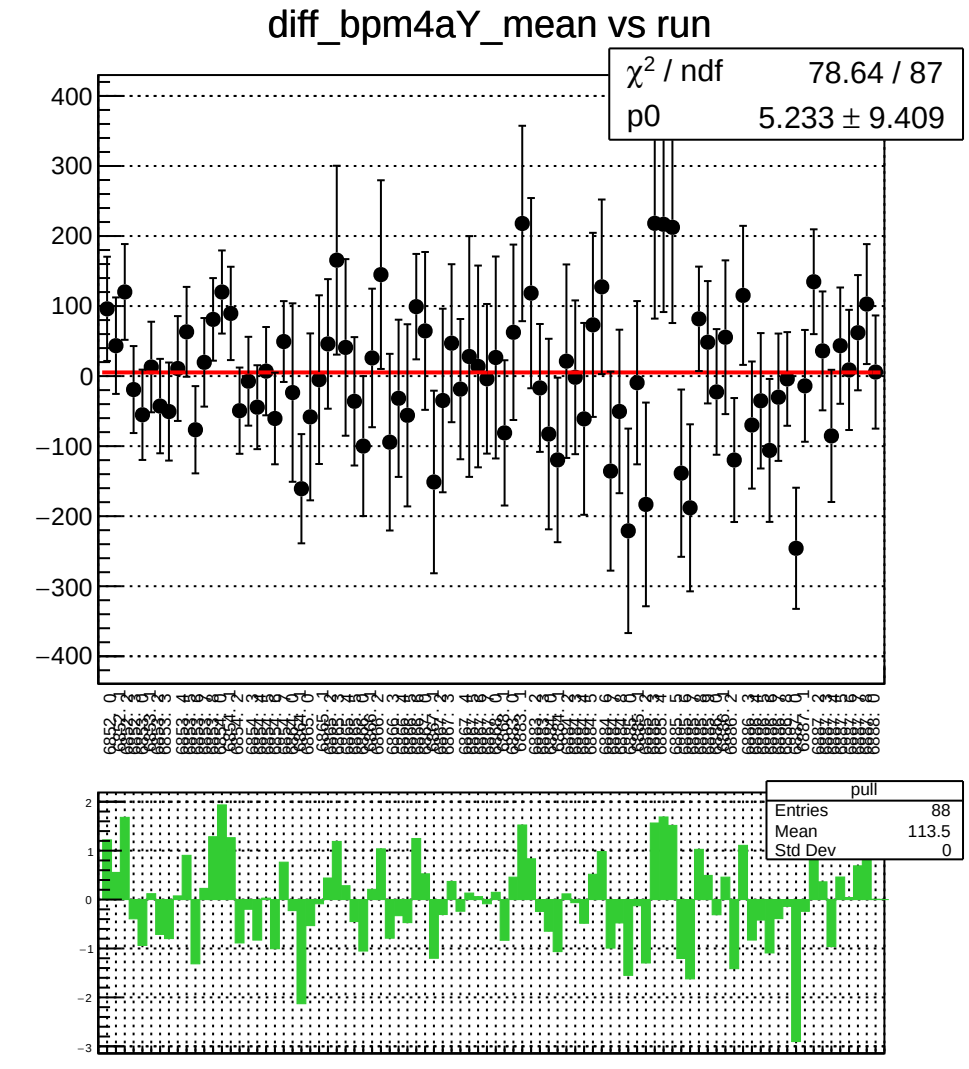

yield_bpm0r05Y_mean vs run
χ² / ndf 3.968e+07 / 87
p0 0.7757 ± 1.152e−05
0.95
0.9
0.85
0.8
0.75
0.7
pull
Entries 88
Mean −224.7
Std Dev 0
1500
1000
500
0
−500
pull1D
Entries 88
Mean 5.528
Std Dev 1.911
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

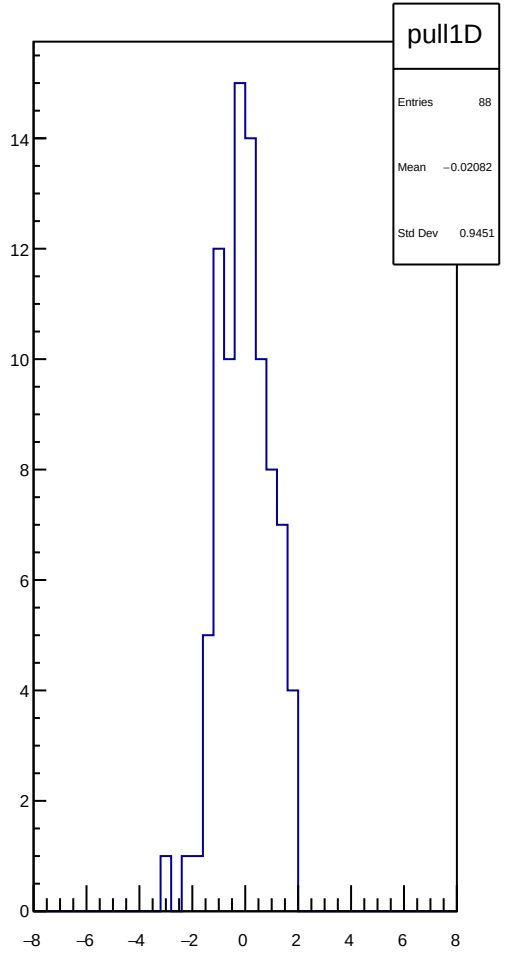

yield_bpm0r05Y_rms vs run
χ² / ndf 1.166e+05 / 87
p0 0.01022 ± 8.147e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

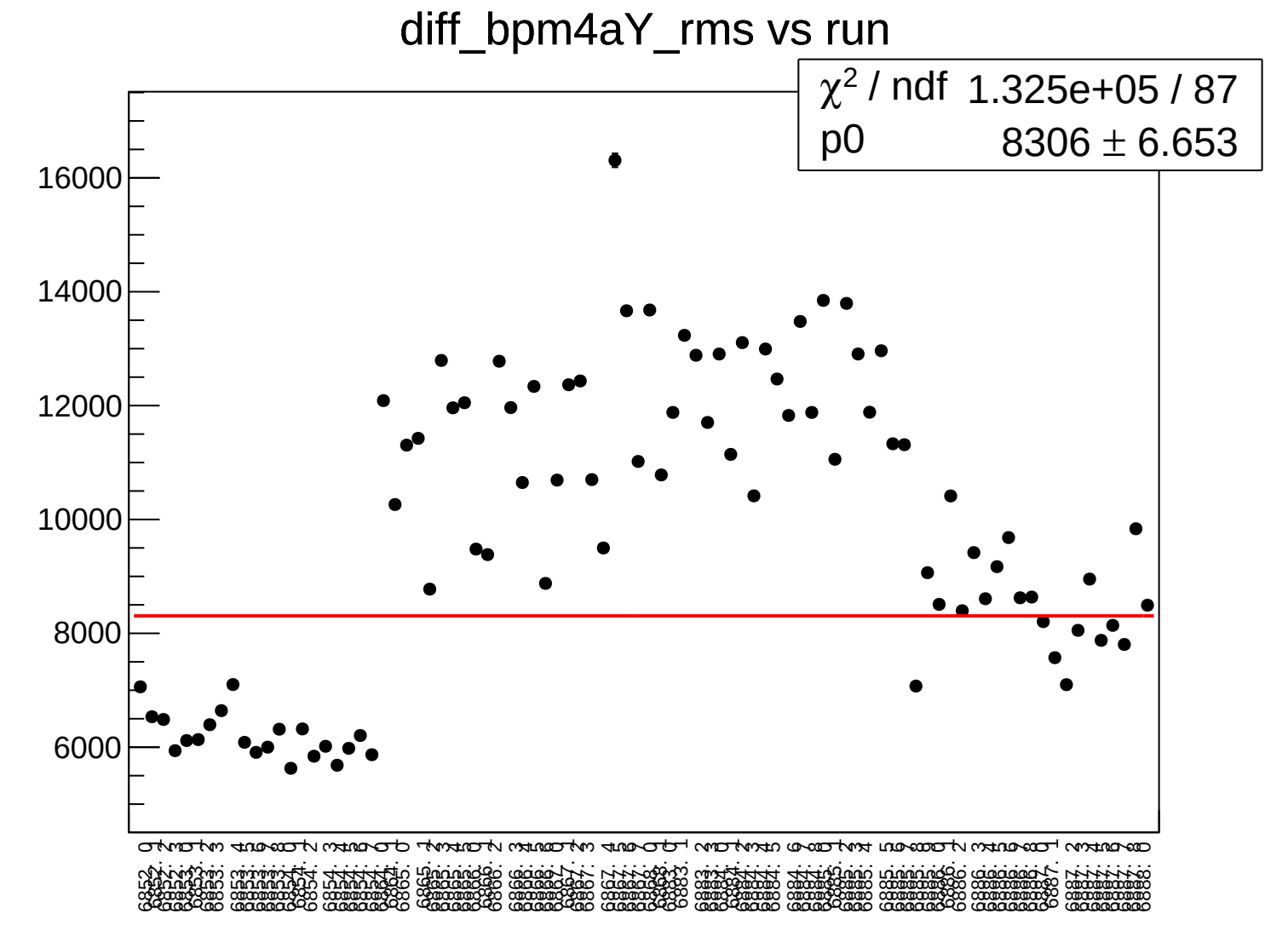

diff_bpm4aX_mean vs run
χ² / ndf 79.06 / 87
p0 −30 ± 12.15
400
200
0
−200
−400
pull
Entries 88
Mean 474
Std Dev 0
2
1
0
−1
−2
−3

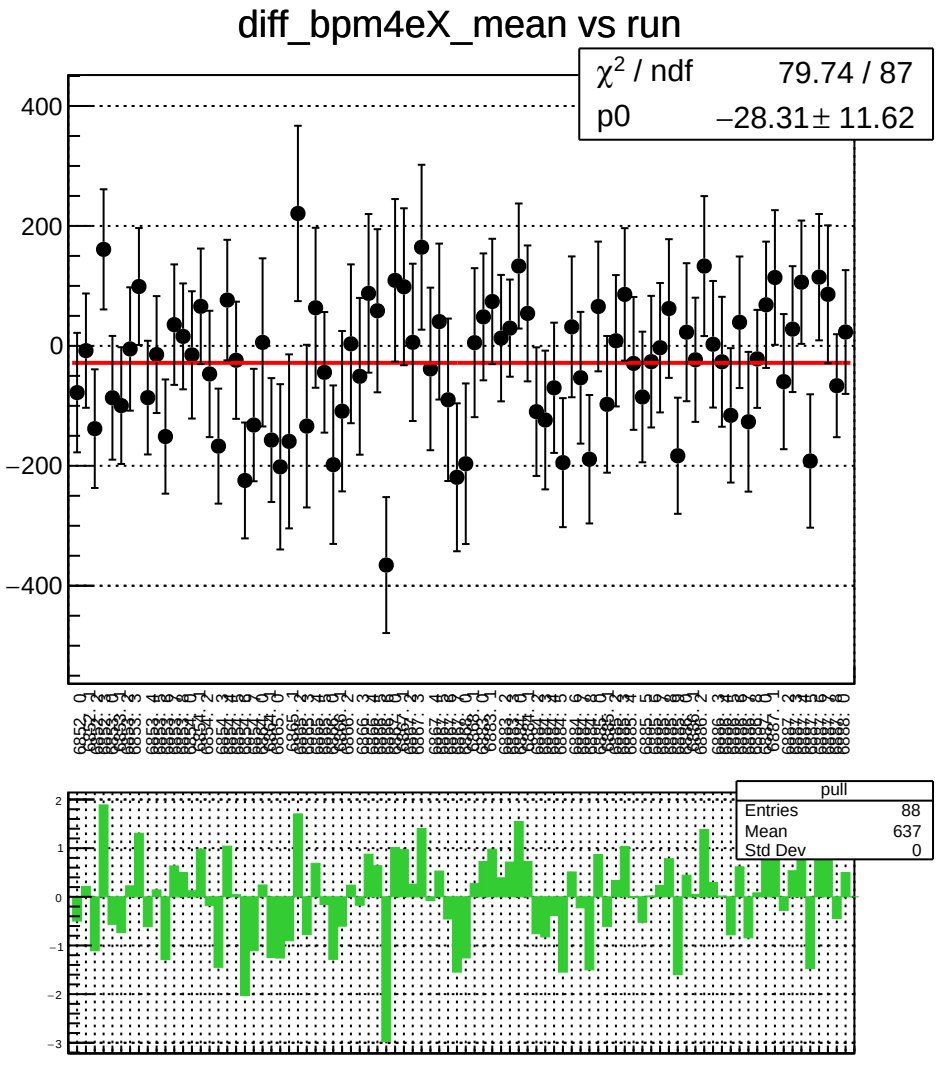

pull1D
Entries 88
Mean 0.007435
Std Dev 0.9478
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

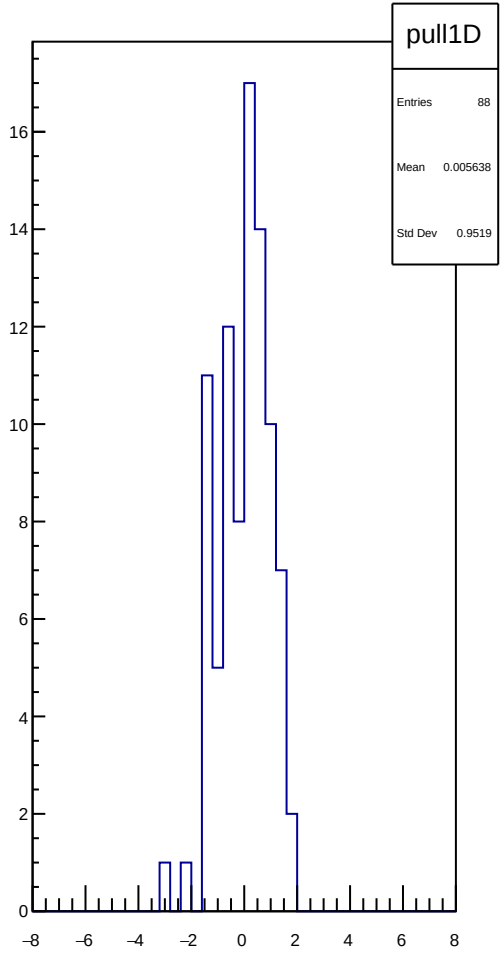

diff_bpm4aX_rms vs run
χ² / ndf 2.472e+04 / 87
p0 1.109e+04 ± 8.592
15000
14000
13000
12000
11000
10000
9000

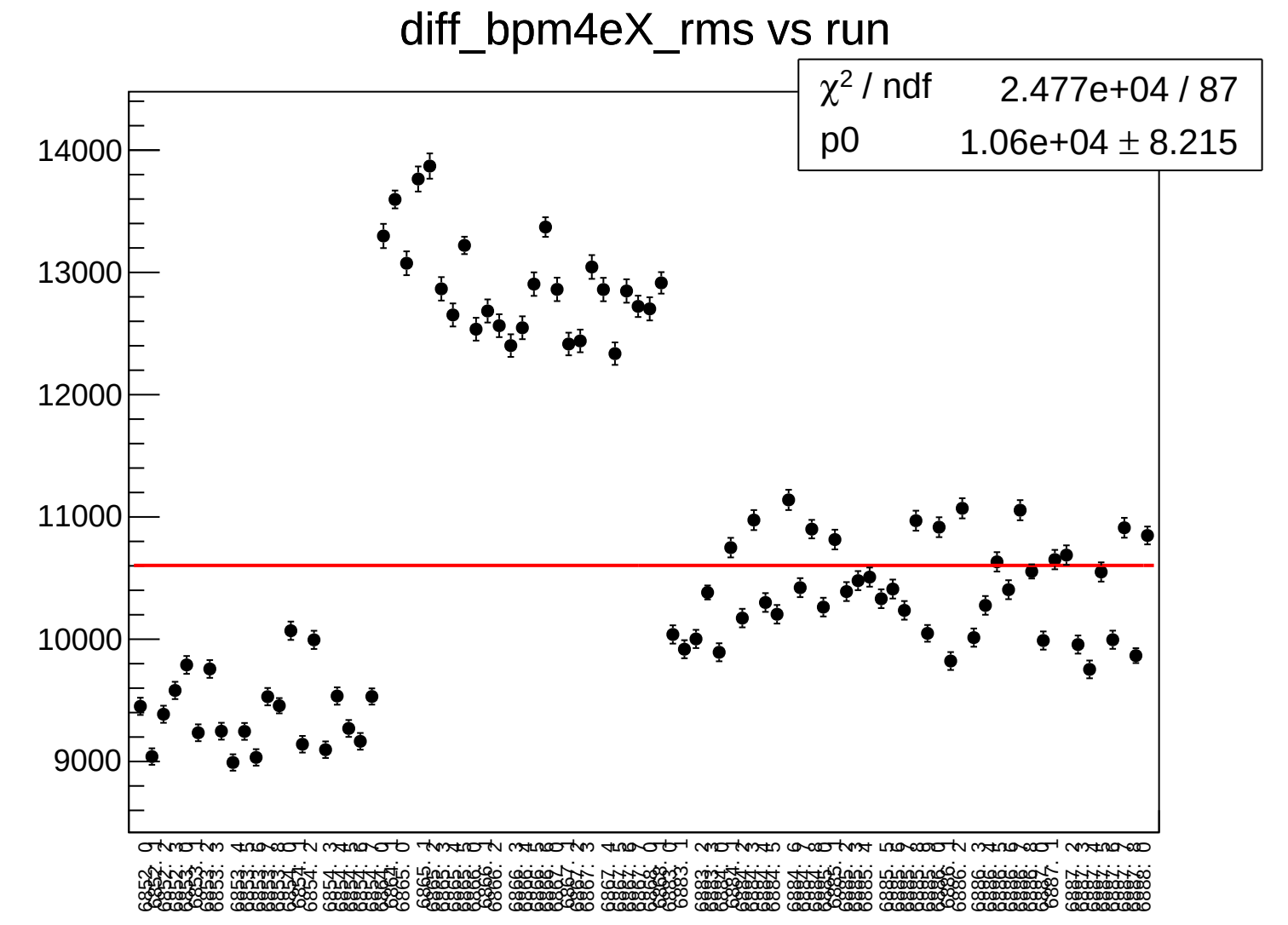

diff_bpm4aY_mean vs run
χ² / ndf 78.64 / 87
p0 5.233 ± 9.409
pull
Entries 88
Mean 113.5
Std Dev 0

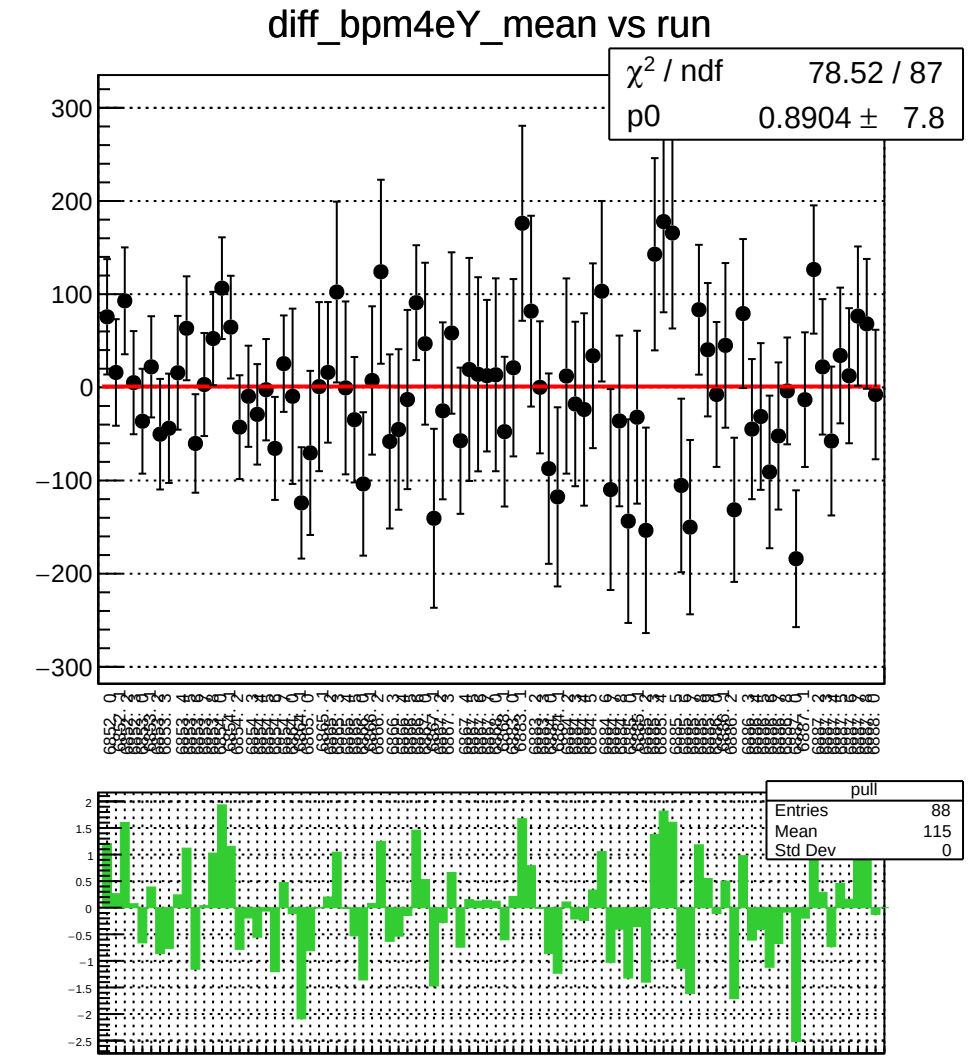

pull1D
Entries 88
Mean −0.02082
Std Dev 0.9451

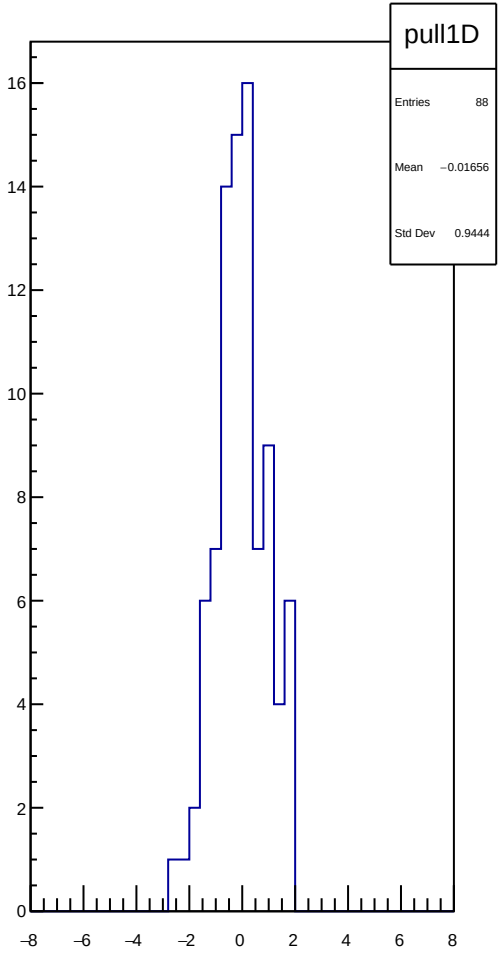

diff_bpm4aY_rms vs run
χ² / ndf 1.325e+05 / 87
p0 8306 ± 6.653
16000
14000
12000
10000
8000
6000

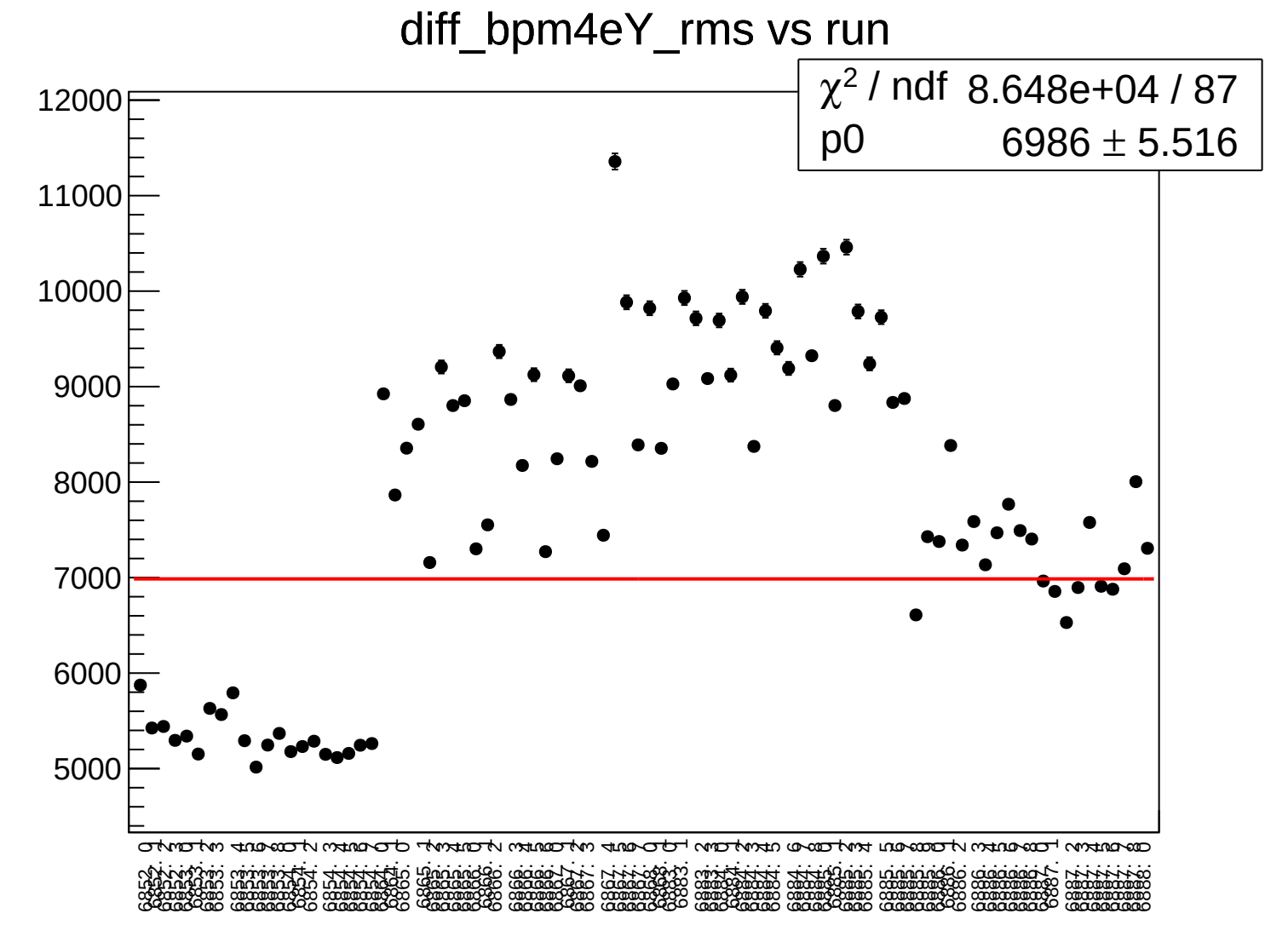

diff_bpm4eX_mean vs run
χ² / ndf 79.74 / 87
p0 −28.31 ± 11.62
400
200
0
−200
−400
pull
Entries 88
Mean 637
Std Dev 0
2
1
0
−1
−2
−3

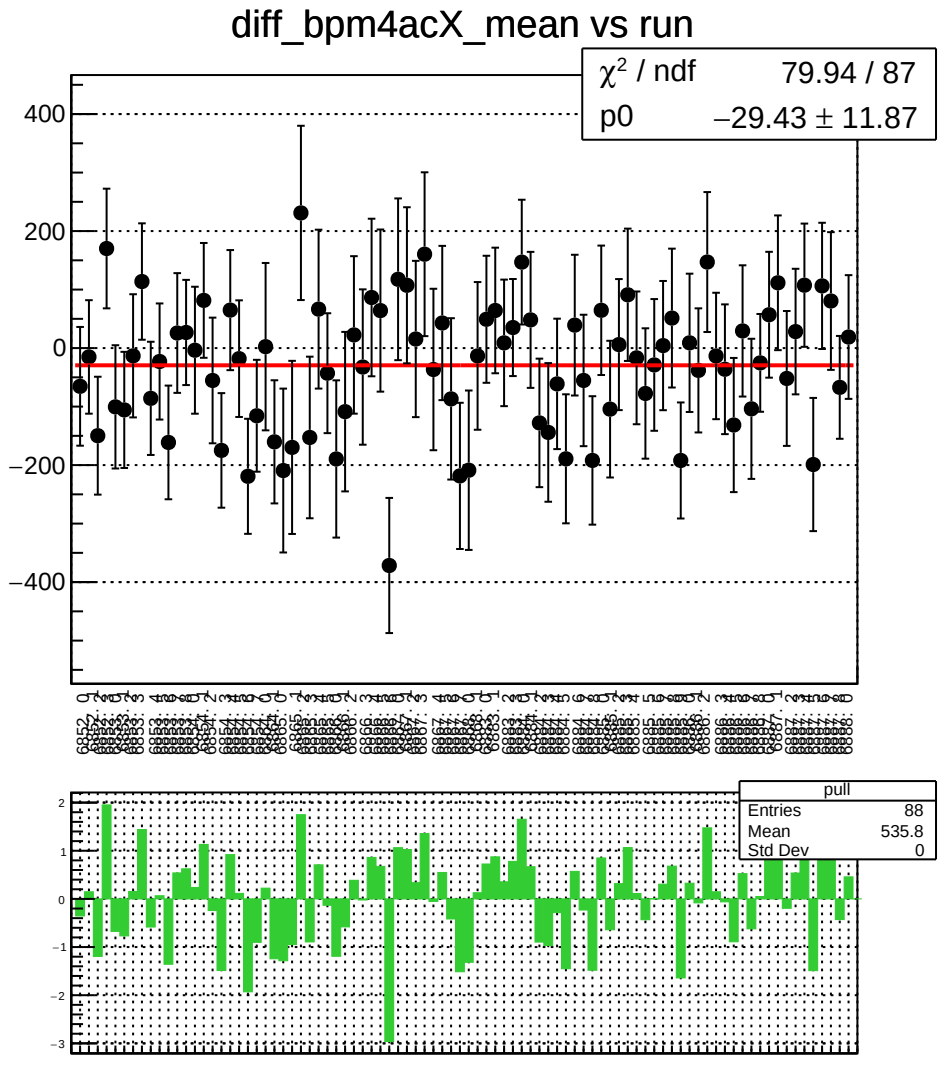

pull1D
Entries 88
Mean 0.005638
Std Dev 0.9519
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

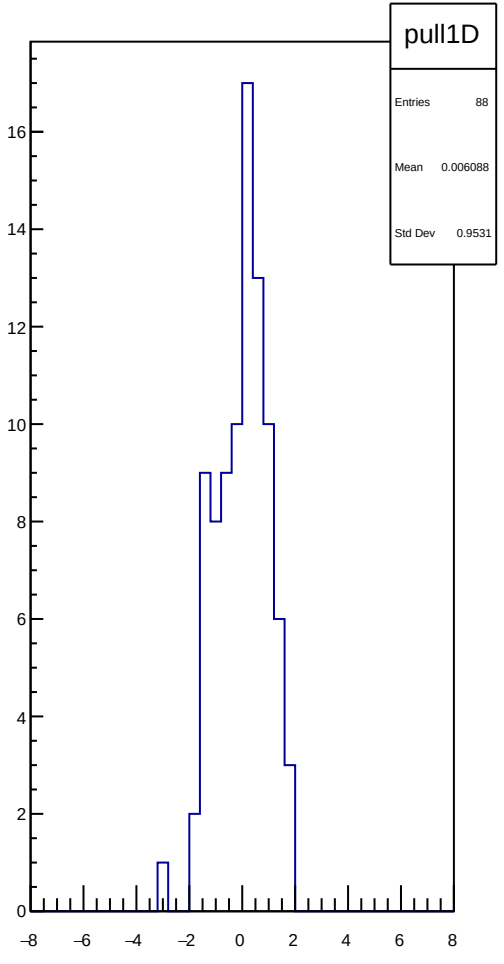

diff_bpm4eX_rms vs run
χ² / ndf 2.477e+04 / 87
p0 1.06e+04 ± 8.215
14000
13000
12000
11000
10000
9000

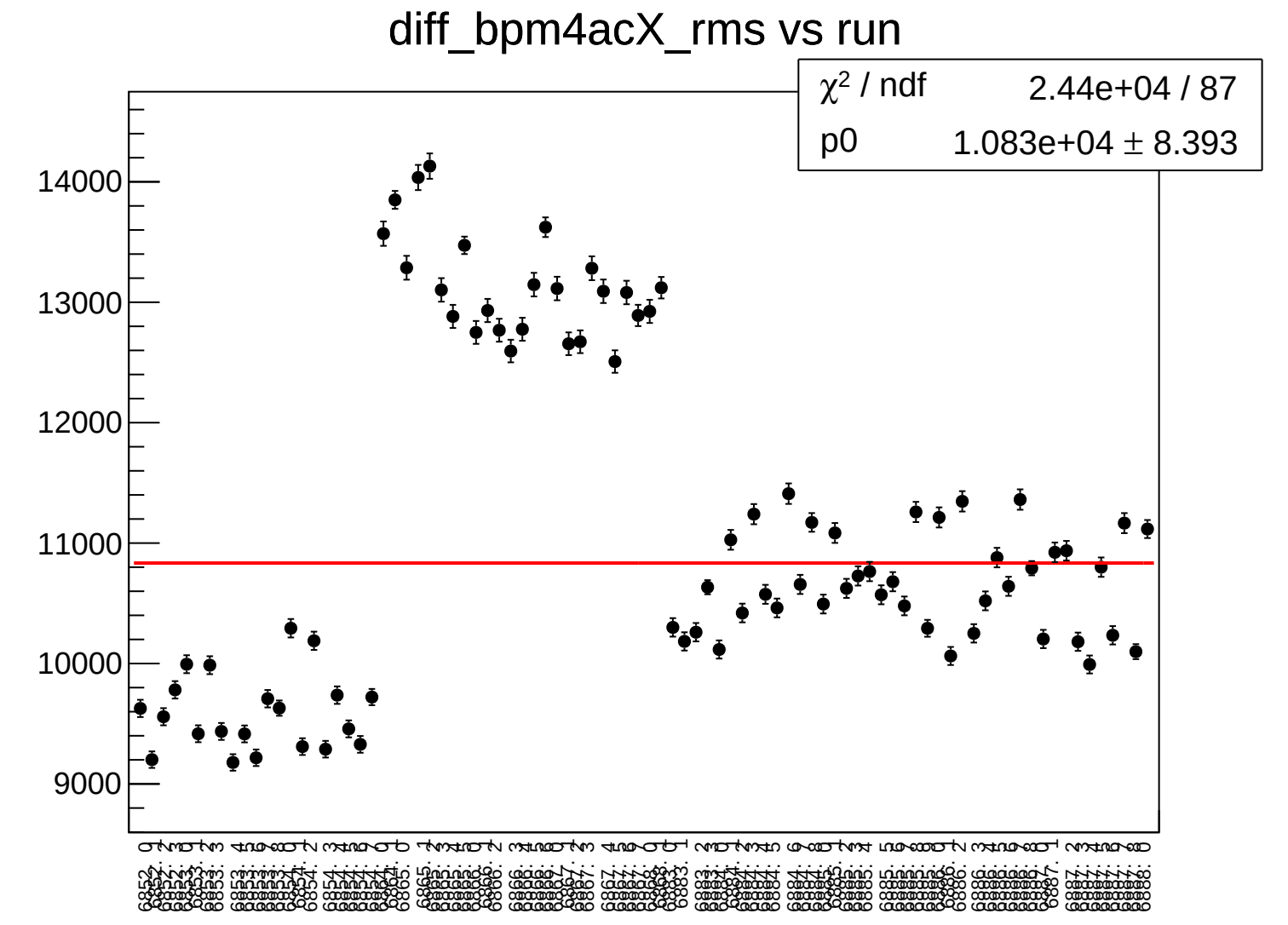

diff_bpm4eY_mean vs run
χ² / ndf 78.52 / 87
p0 0.8904 ± 7.8
pull
Entries 88
Mean 115
Std Dev 0

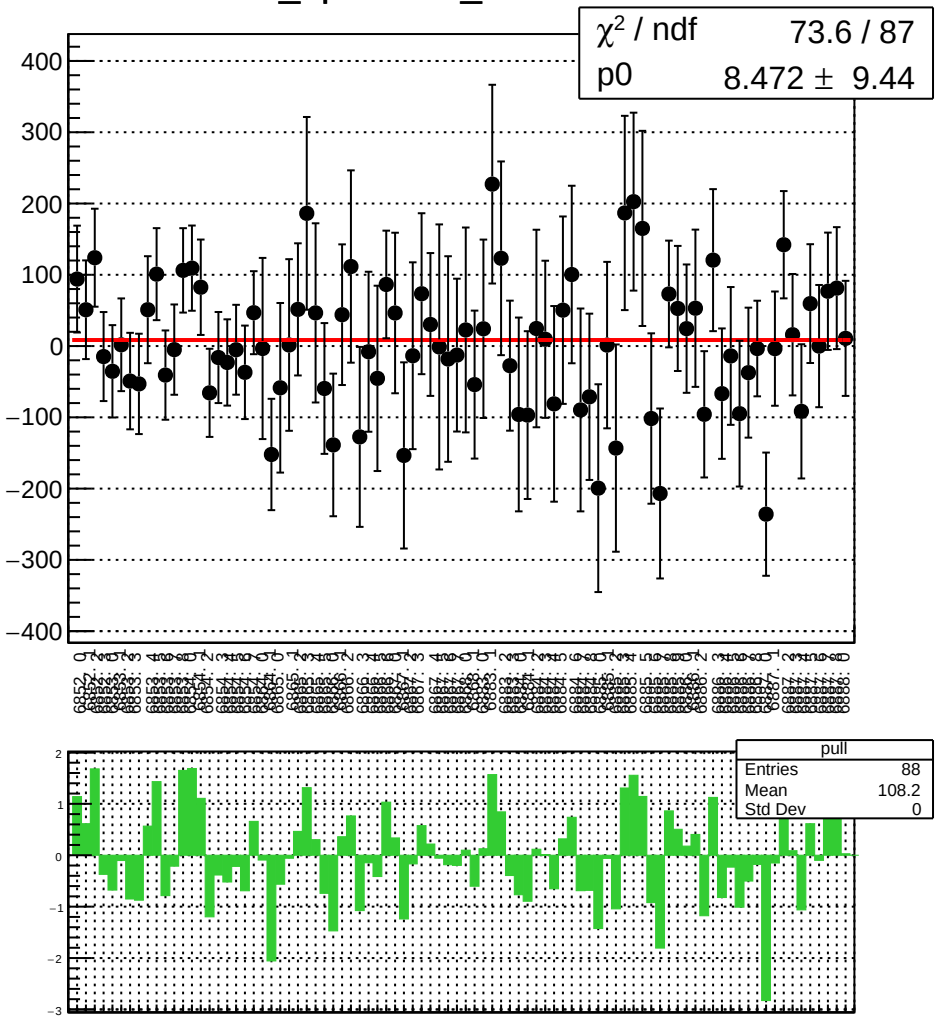

pull1D
Entries 88
Mean −0.01656
Std Dev 0.9444

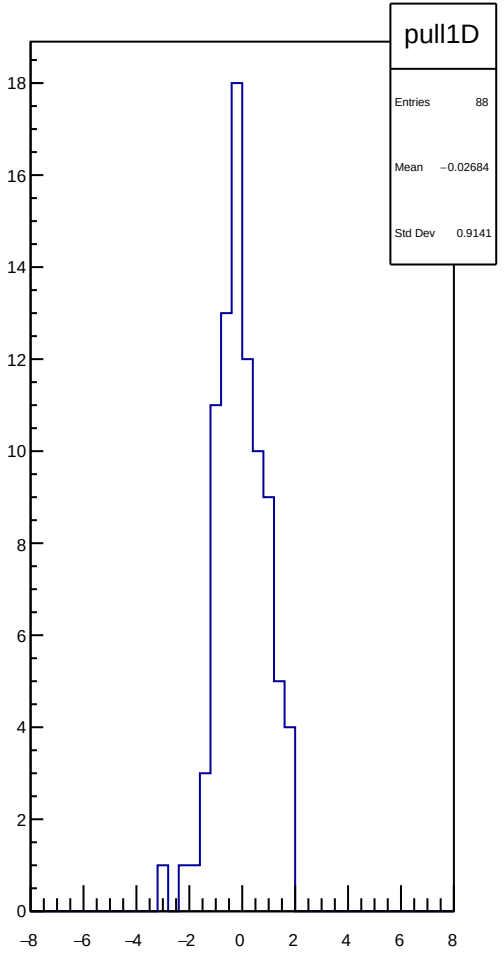

diff_bpm4eY_rms vs run
χ² / ndf 8.648e+04 / 87
p0 6986 ± 5.516
12000
11000
10000
9000
8000
7000
6000
5000

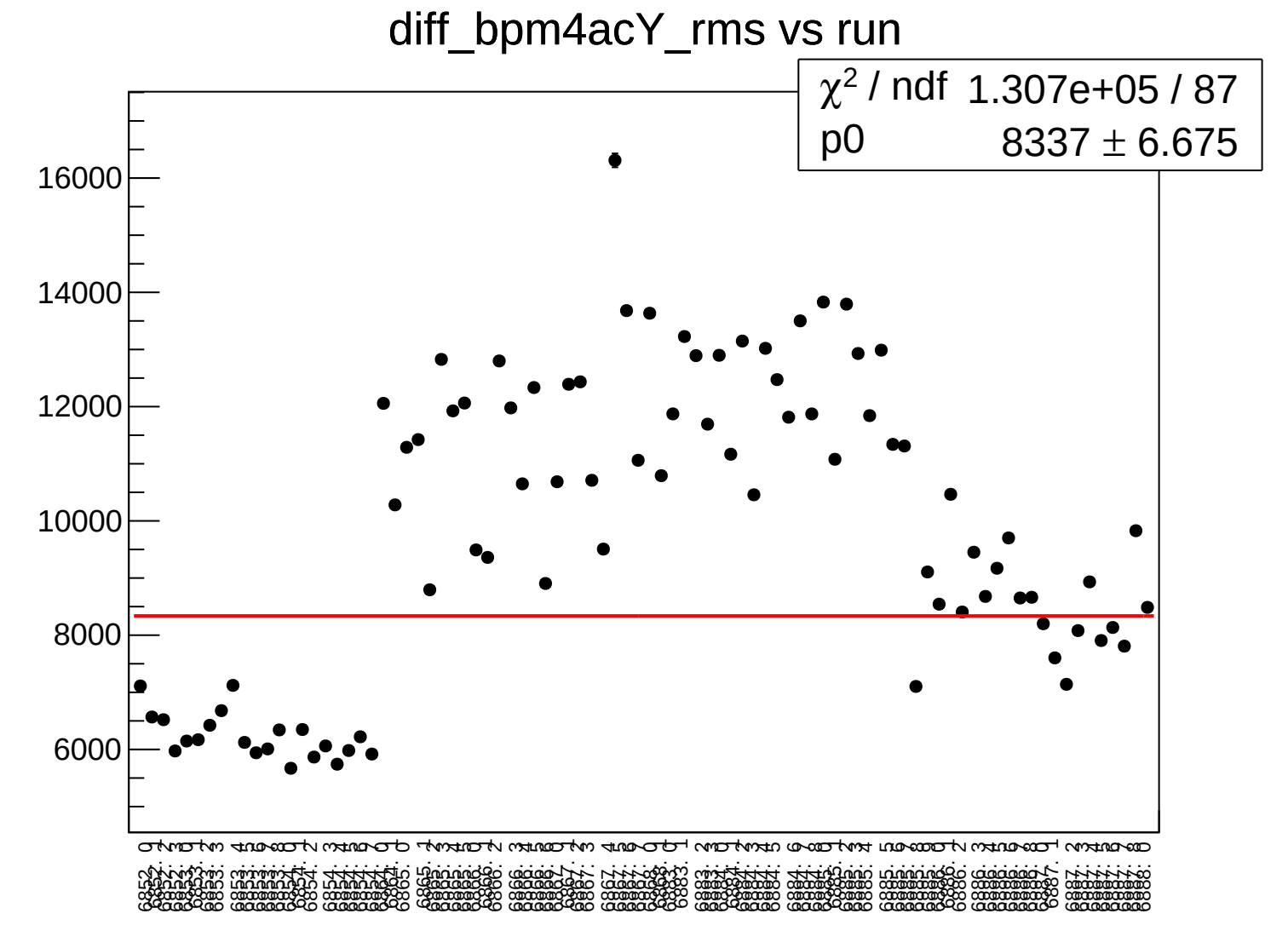

diff_bpm4acX_mean vs run
χ² / ndf 79.94 / 87
p0 −29.43 ± 11.87
400
200
0
−200
−400
pull
Entries 88
Mean 535.8
Std Dev 0
2
1
0
−1
−2
−3

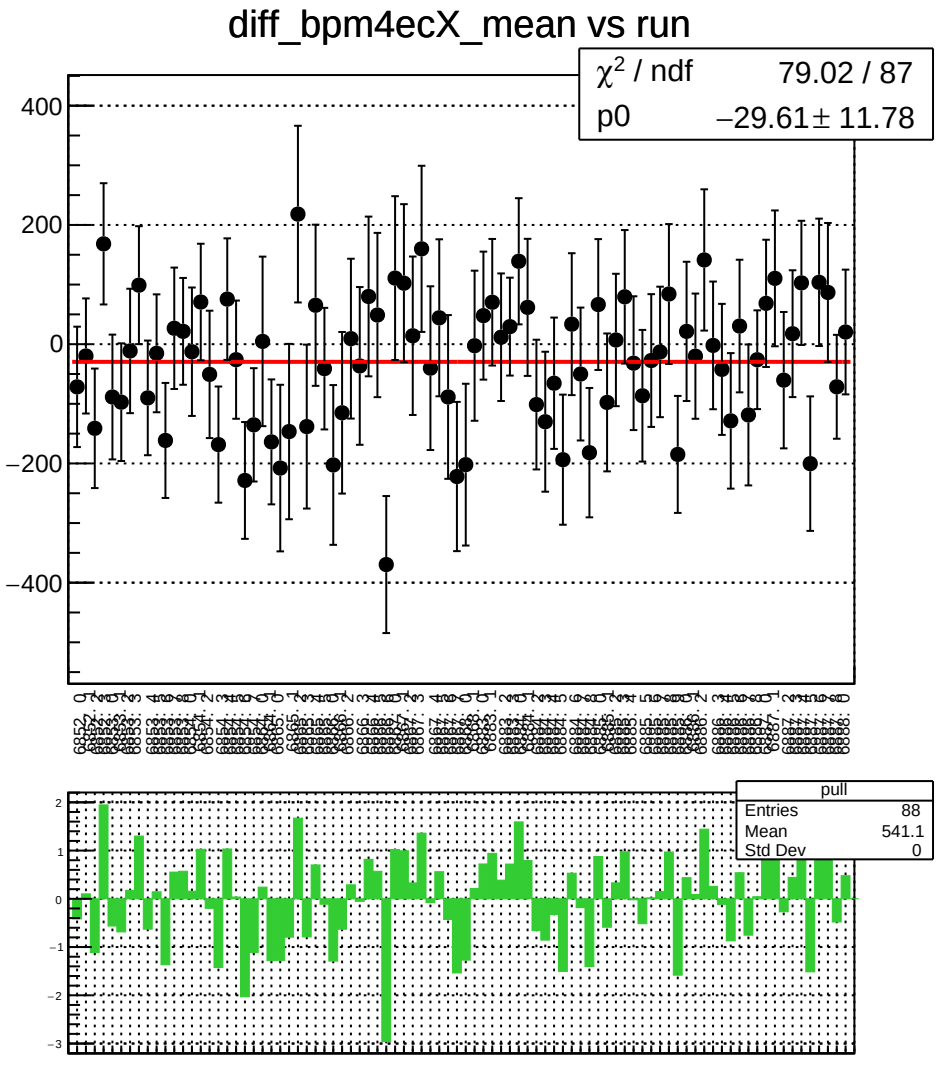

pull1D
Entries 88
Mean 0.006088
Std Dev 0.9531
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

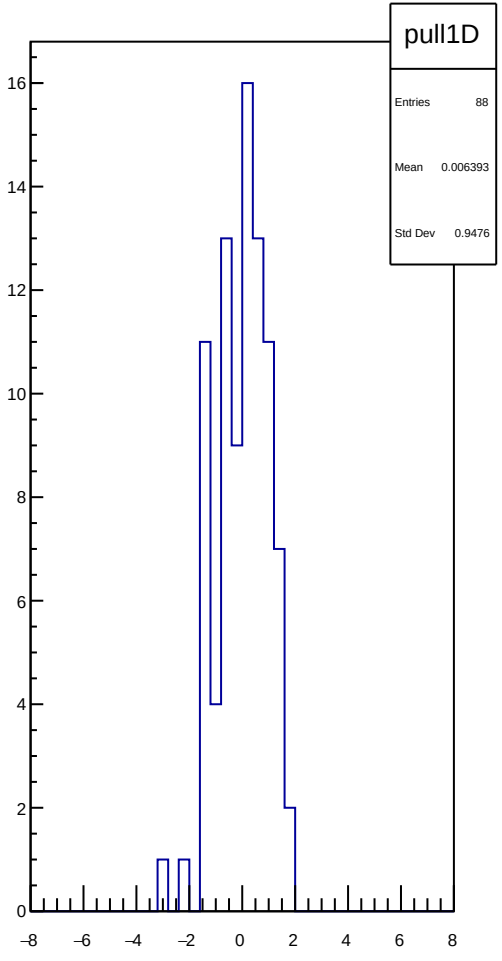

diff_bpm4acX_rms vs run
χ² / ndf 2.44e+04 / 87
p0 1.083e+04 ± 8.393
14000
13000
12000
11000
10000
9000

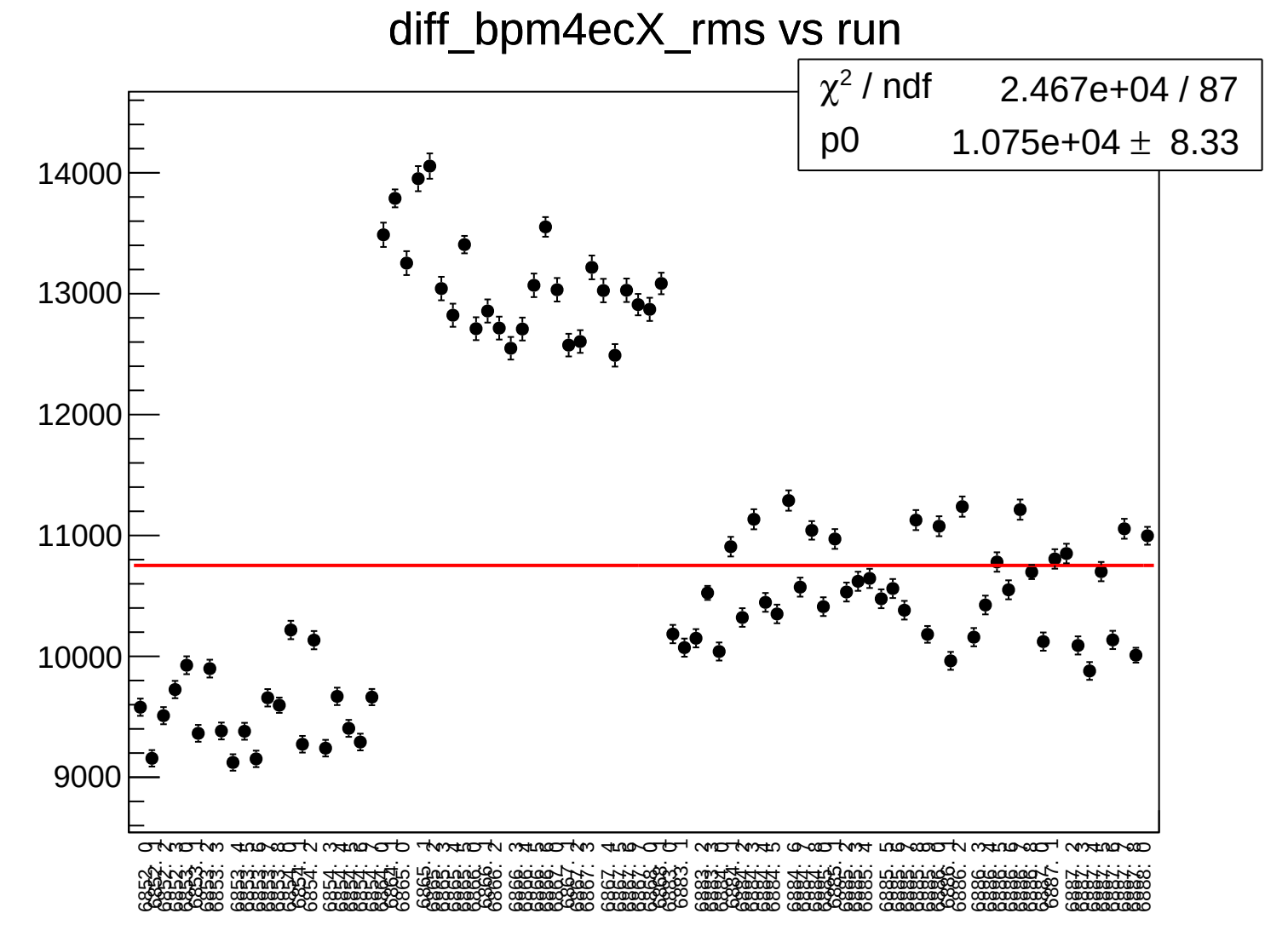

diff_bpm4acY_mean vs run
χ² / ndf 73.6 / 87
p0 8.472 ± 9.44
pull
Entries 88
Mean 108.2
Std Dev 0

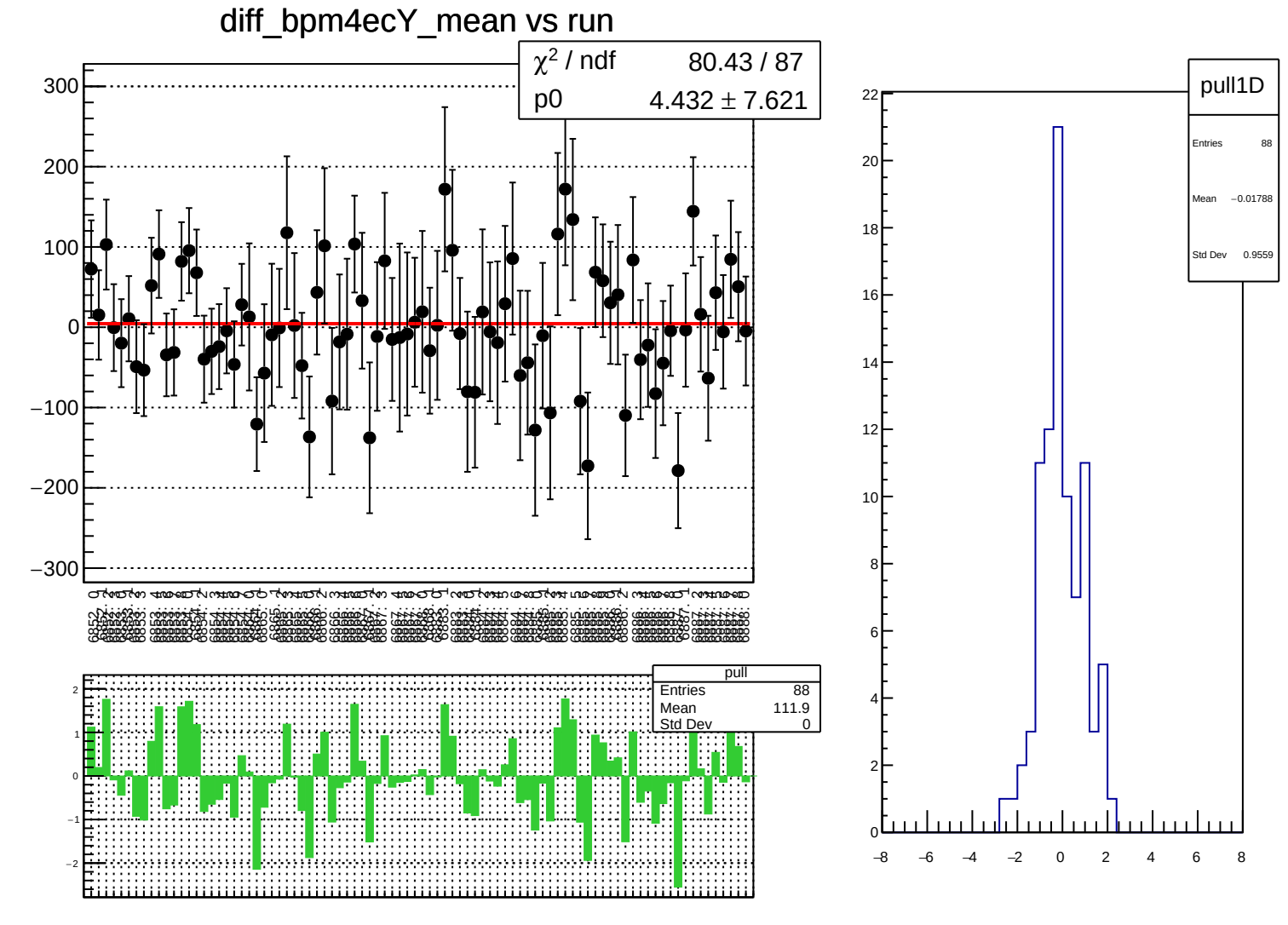

pull1D
Entries 88
Mean −0.02684
Std Dev 0.9141

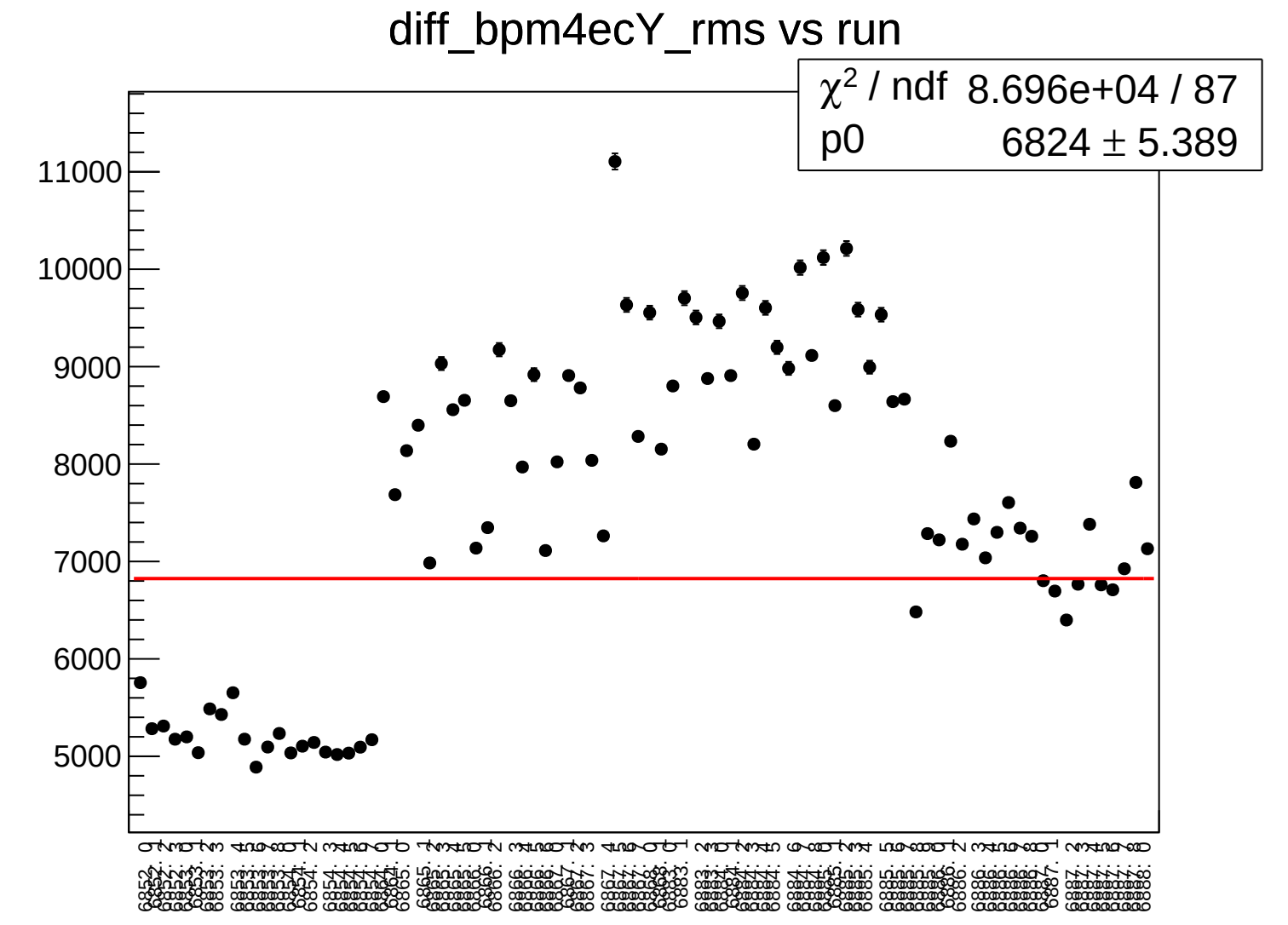

diff_bpm4acY_rms vs run
χ² / ndf 1.307e+05 / 87
p0 8337 ± 6.675
16000
14000
12000
10000
8000
6000

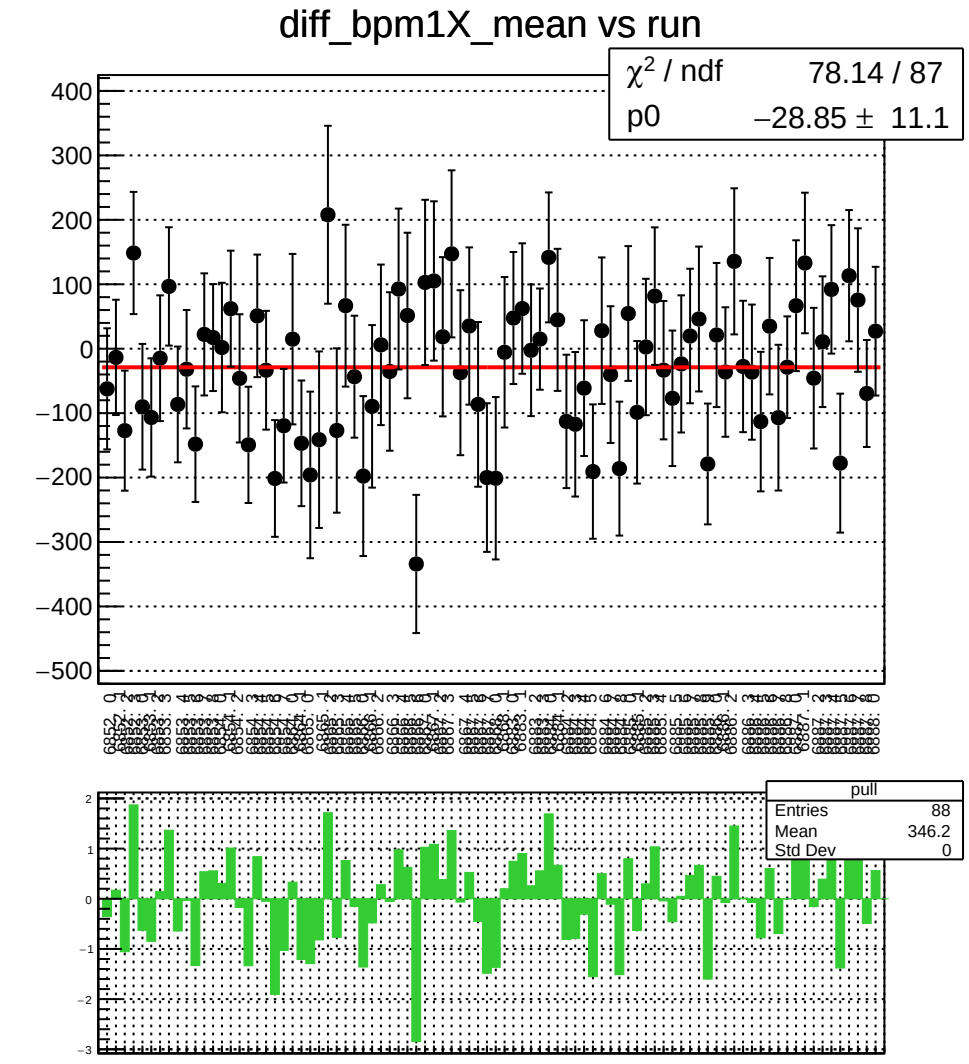

diff_bpm4ecX_mean vs run
χ^2 / ndf 79.02 / 87
p0 −29.61± 11.78
400
200
0
−200
−400
pull
Entries 88
Mean 541.1
Std Dev 0
2
1
0
−1
−2
−3

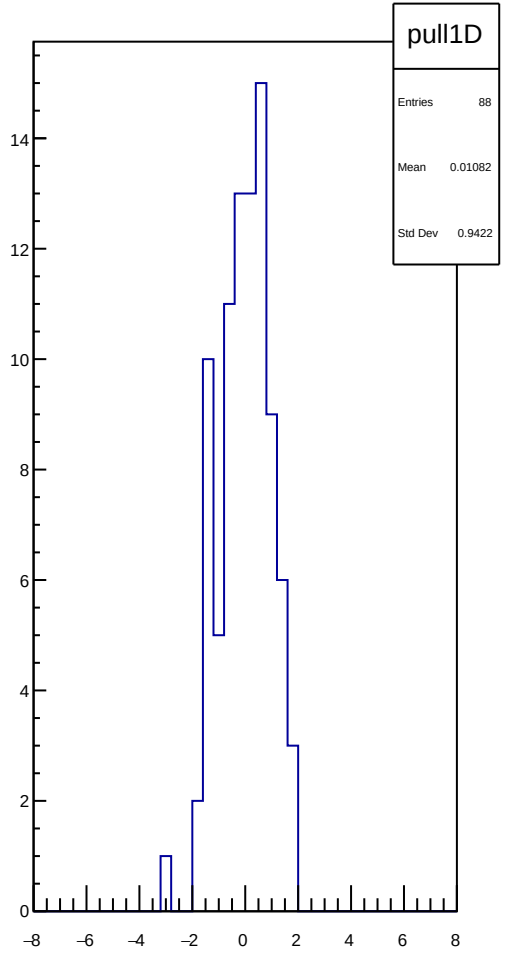

pull1D
Entries 88
Mean 0.006393
Std Dev 0.9476
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

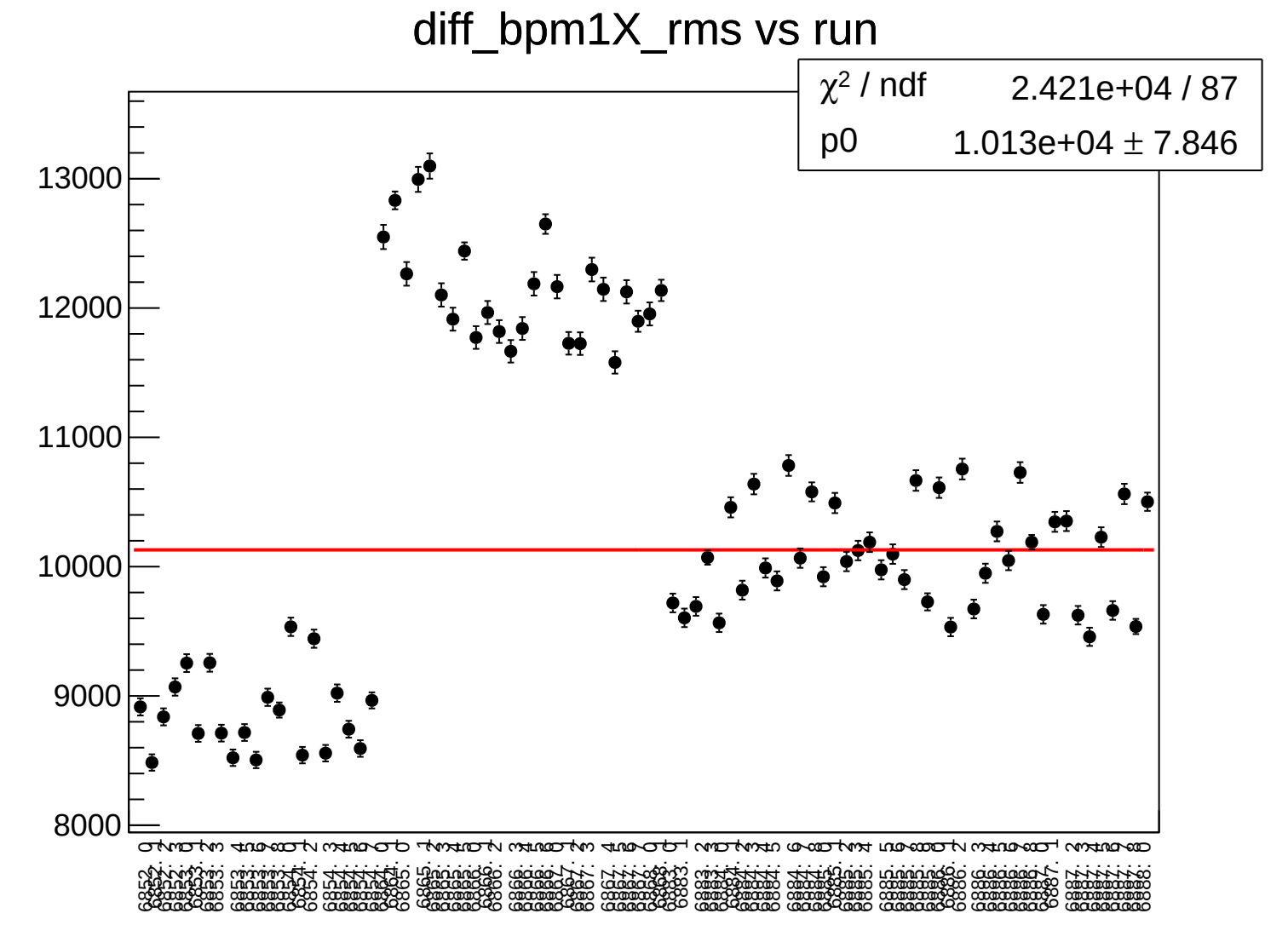

diff_bpm4ecX_rms vs run
χ² / ndf 2.467e+04 / 87
p0 1.075e+04 ± 8.33
14000
13000
12000
11000
10000
9000

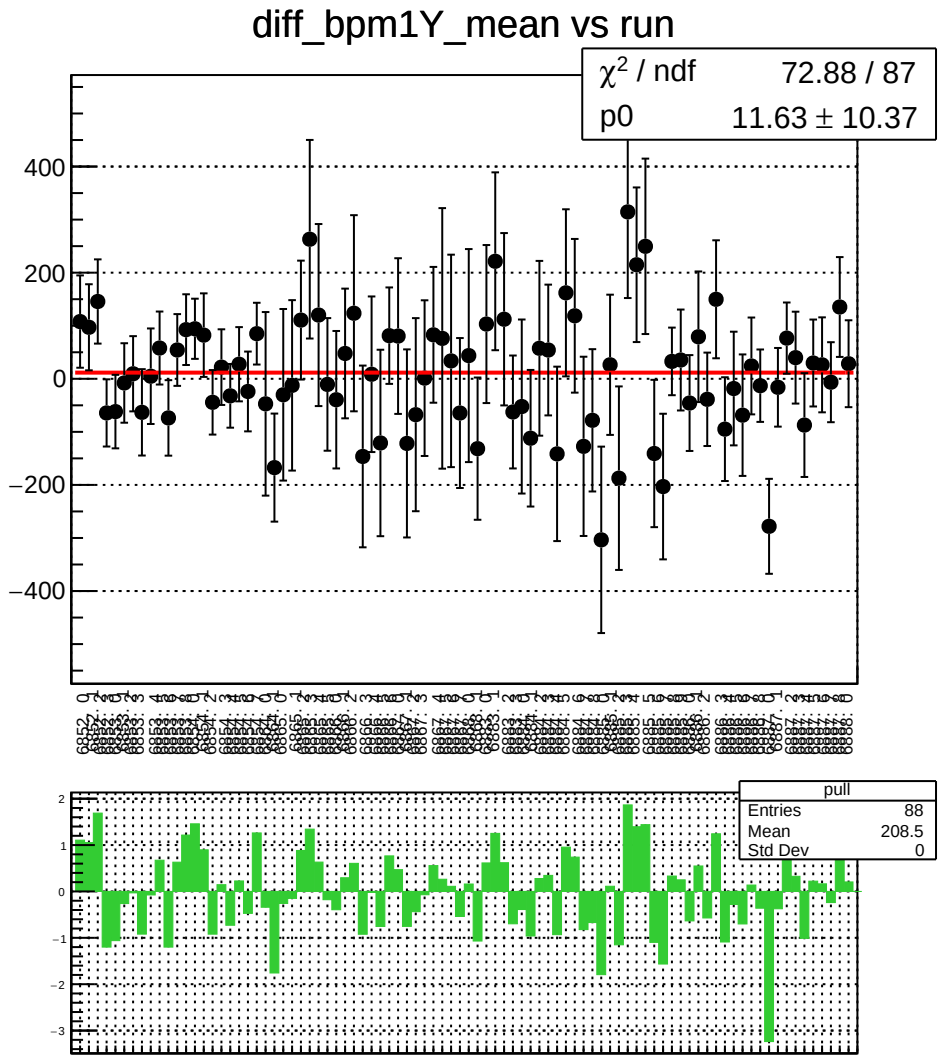

diff_bpm4ecY_mean vs run
χ² / ndf 80.43 / 87
p0 4.432 ± 7.621
300
200
100
0
−100
−200
−300
pull
Entries 88
Mean 111.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01788
Std Dev 0.9559
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

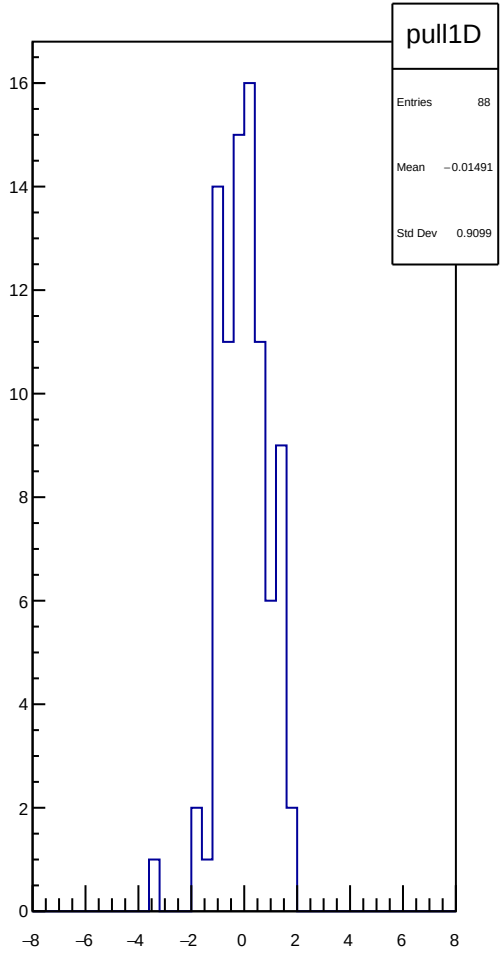

diff_bpm4ecY_rms vs run
χ² / ndf 8.696e+04 / 87
p0 6824 ± 5.389
11000
10000
9000
8000
7000
6000
5000

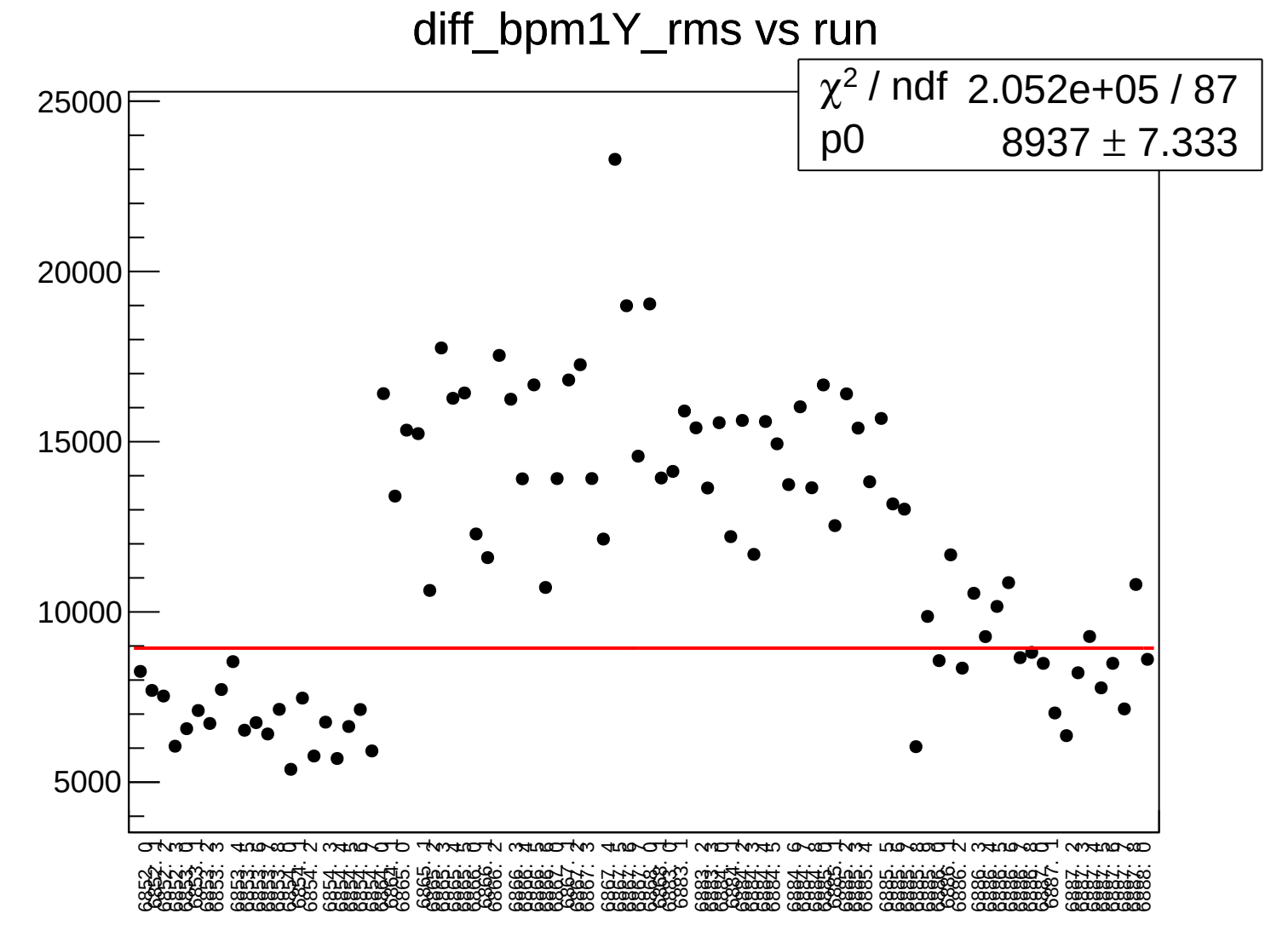

diff_bpm1X_mean vs run
χ² / ndf 78.14 / 87
p0 −28.85 ± 11.1
pull
Entries 88
Mean 346.2
Std Dev 0

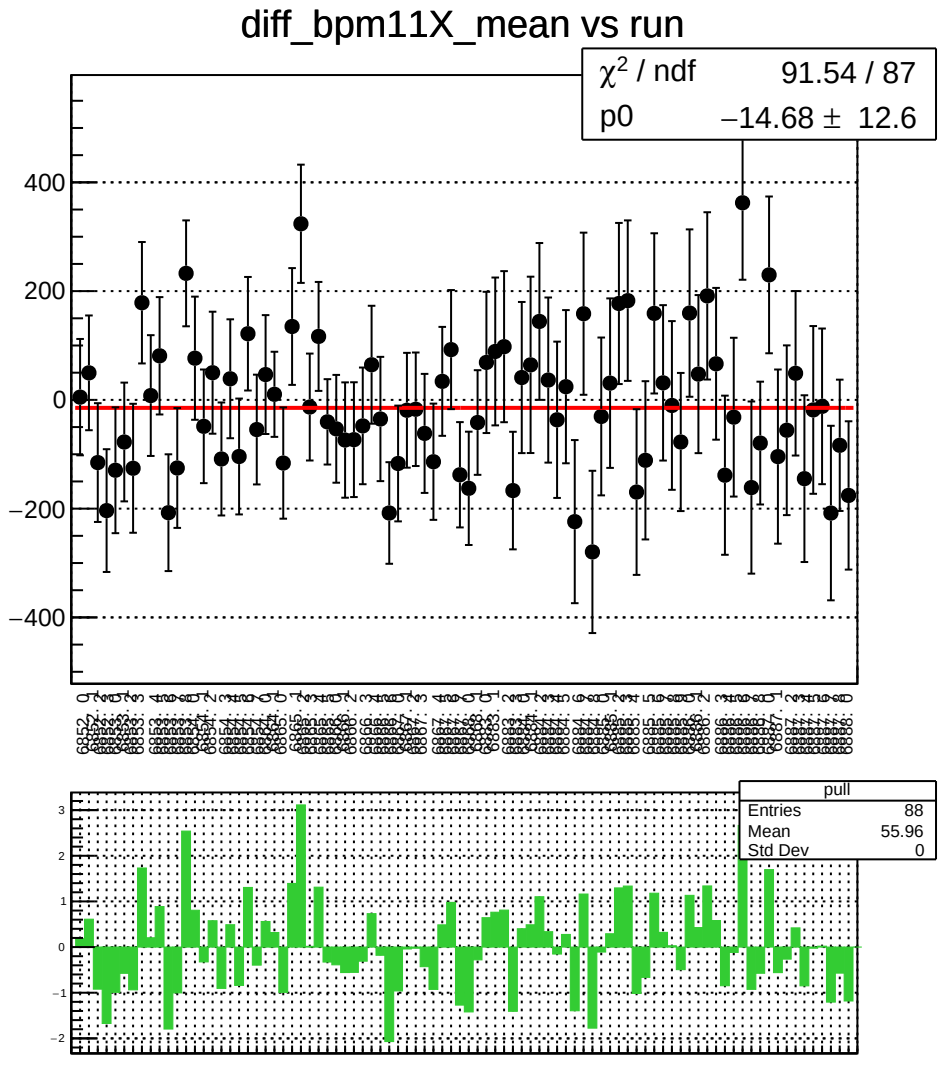

pull1D
Entries 88
Mean 0.01082
Std Dev 0.9422

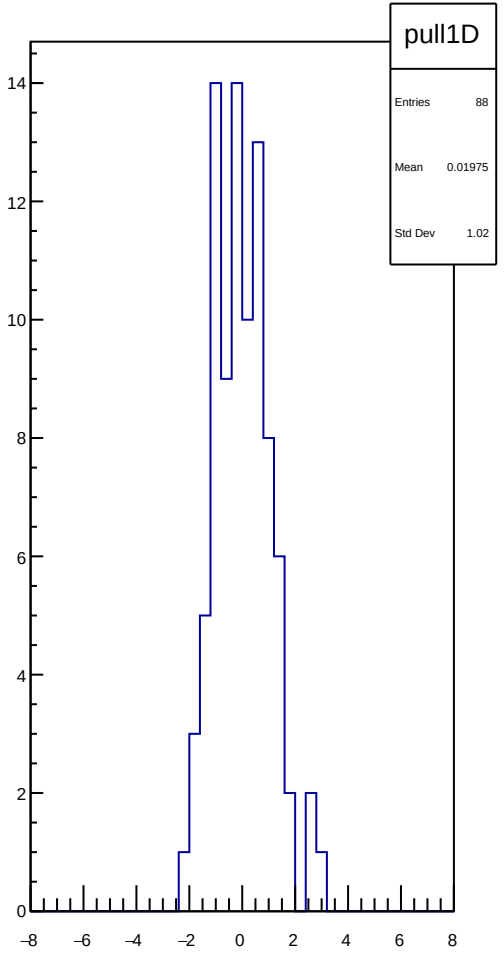

diff_bpm1X_rms vs run
χ² / ndf 2.421e+04 / 87
p0 1.013e+04 ± 7.846
13000
12000
11000
10000
9000
8000

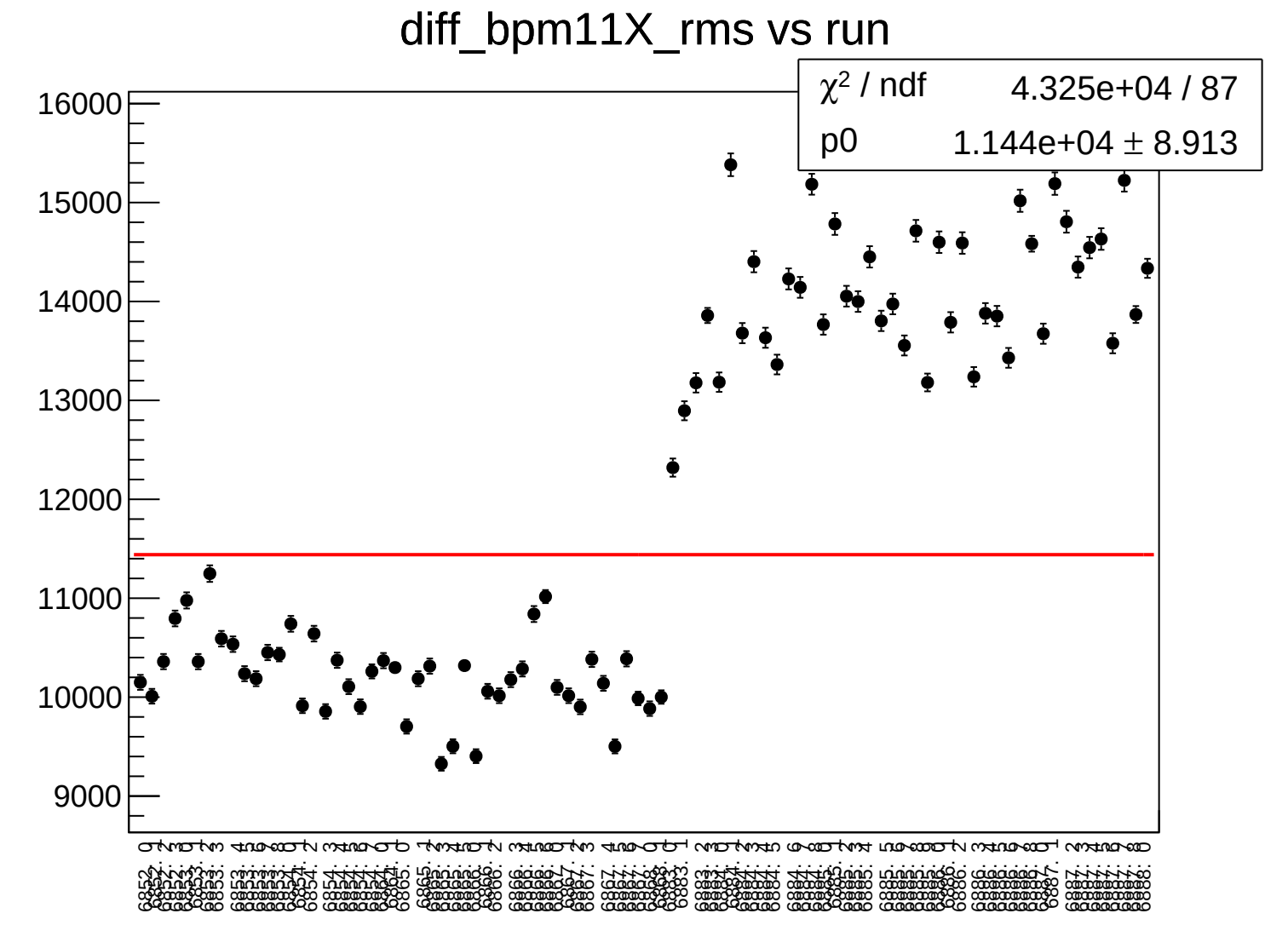

diff_bpm1Y_mean vs run
χ^2 / ndf 72.88 / 87
p0 11.63 ± 10.37
400
200
0
−200
−400
pull
Entries 88
Mean 208.5
Std Dev 0
2
1
0
−1
−2
−3

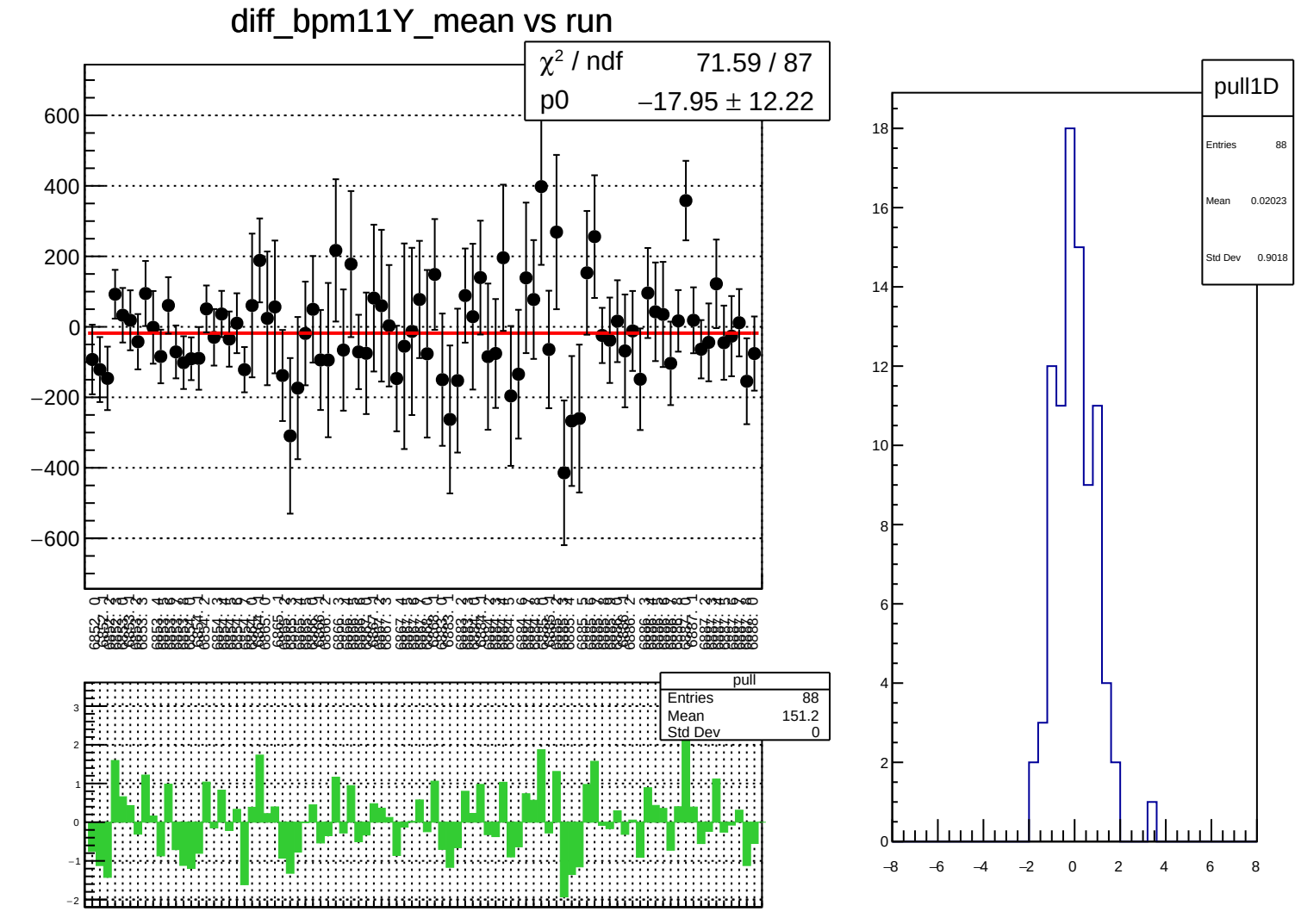

pull1D
Entries 88
Mean −0.01491
Std Dev 0.9099
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

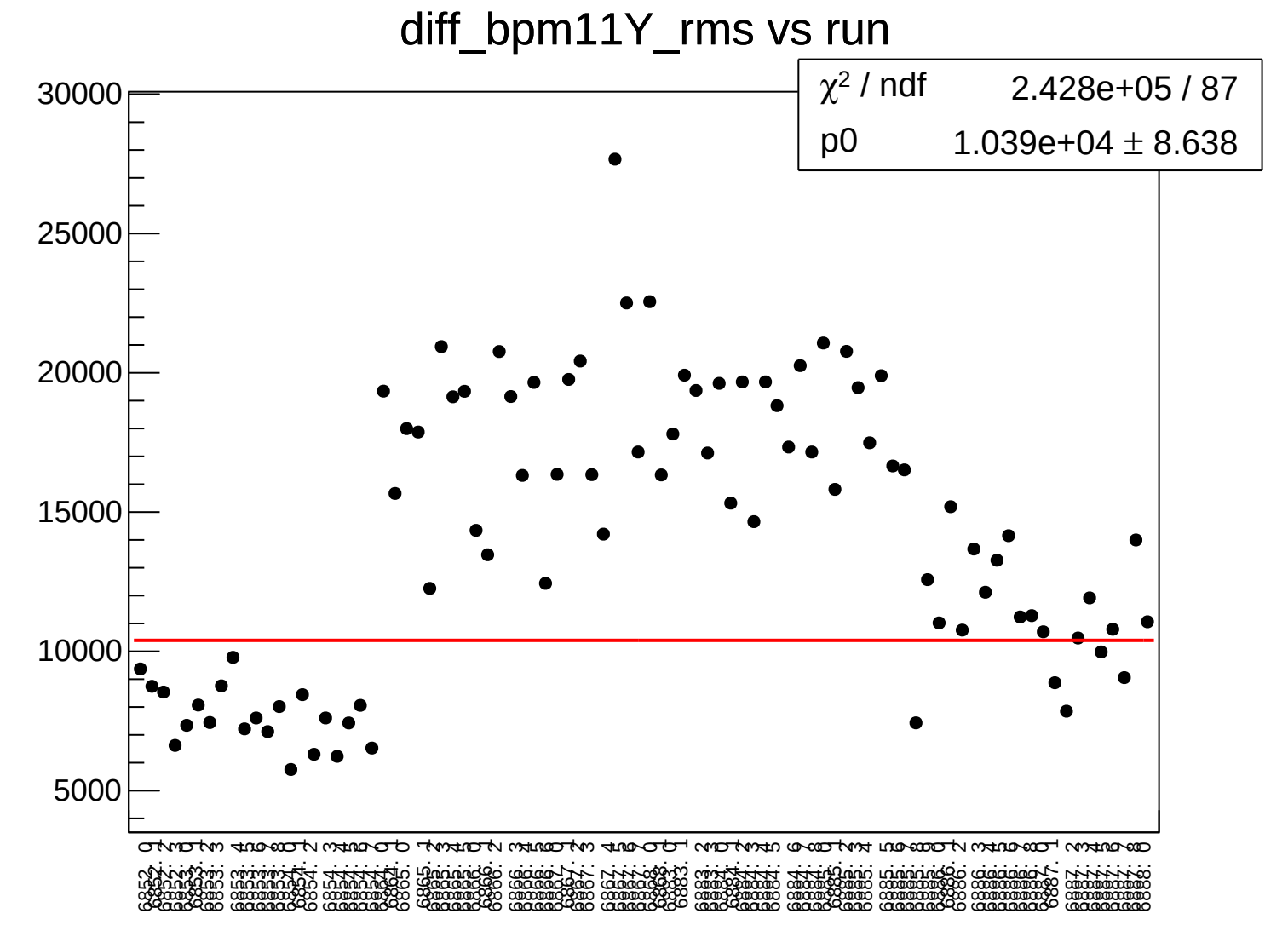

diff_bpm1Y_rms vs run
χ² / ndf 2.052e+05 / 87
p0 8937 ± 7.333
25000
20000
15000
10000
5000

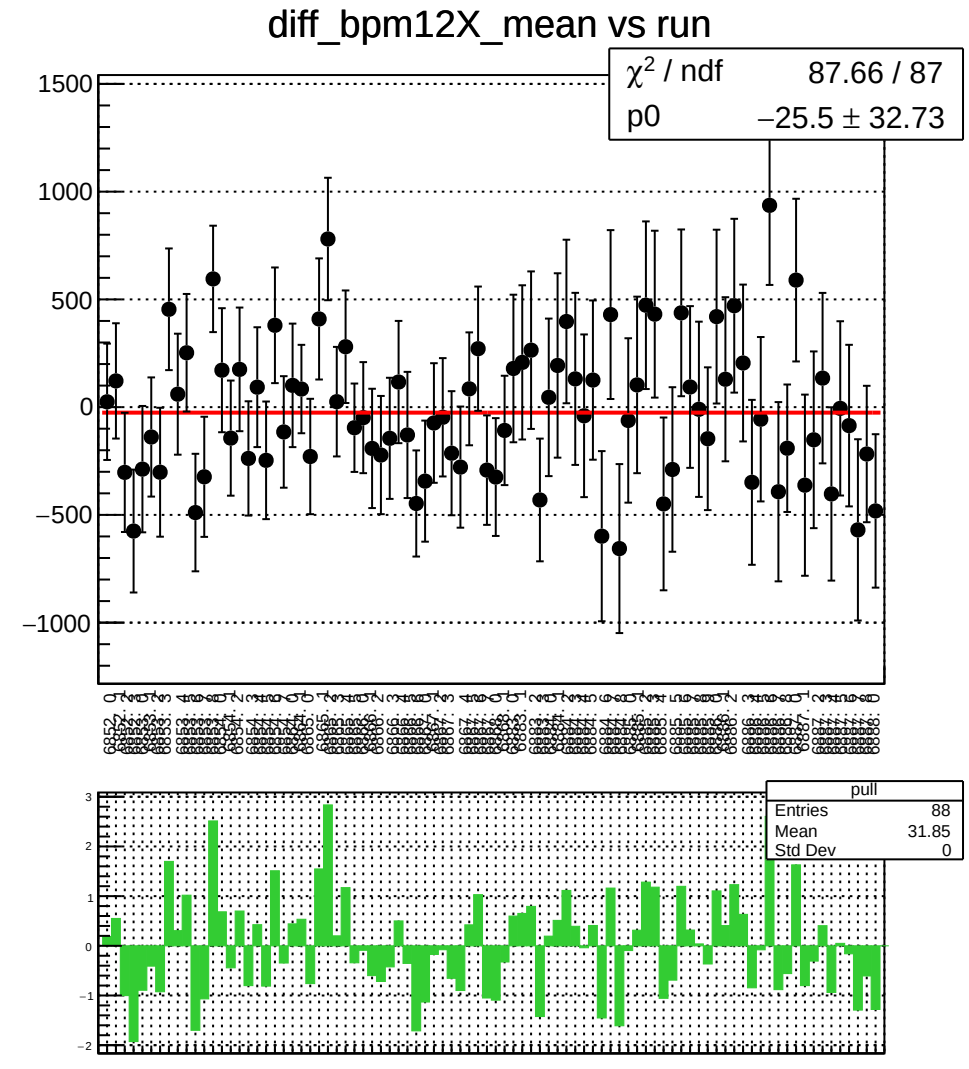

diff_bpm11X_mean vs run
χ² / ndf 91.54 / 87
p0 −14.68 ± 12.6
400
200
0
−200
−400
pull
Entries 88
Mean 55.96
Std Dev 0
3
2
1
0
−1
−2

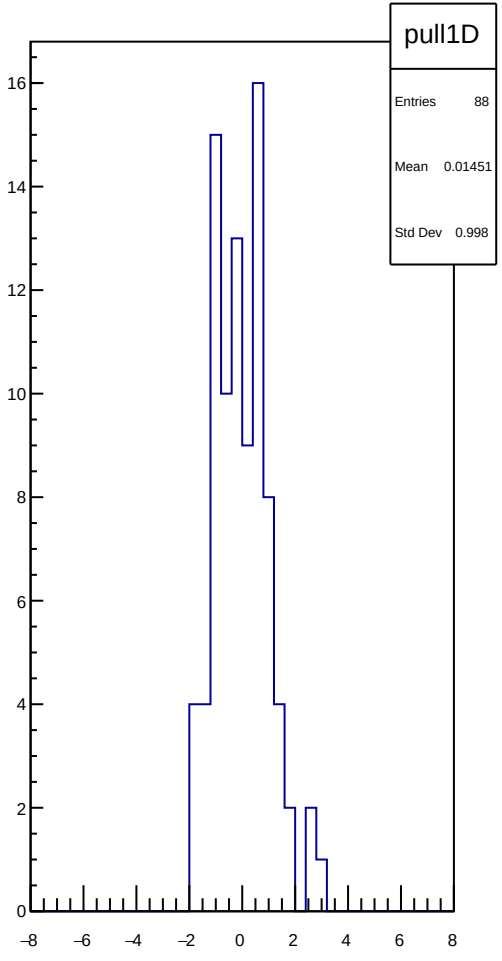

pull1D
Entries 88
Mean 0.01975
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

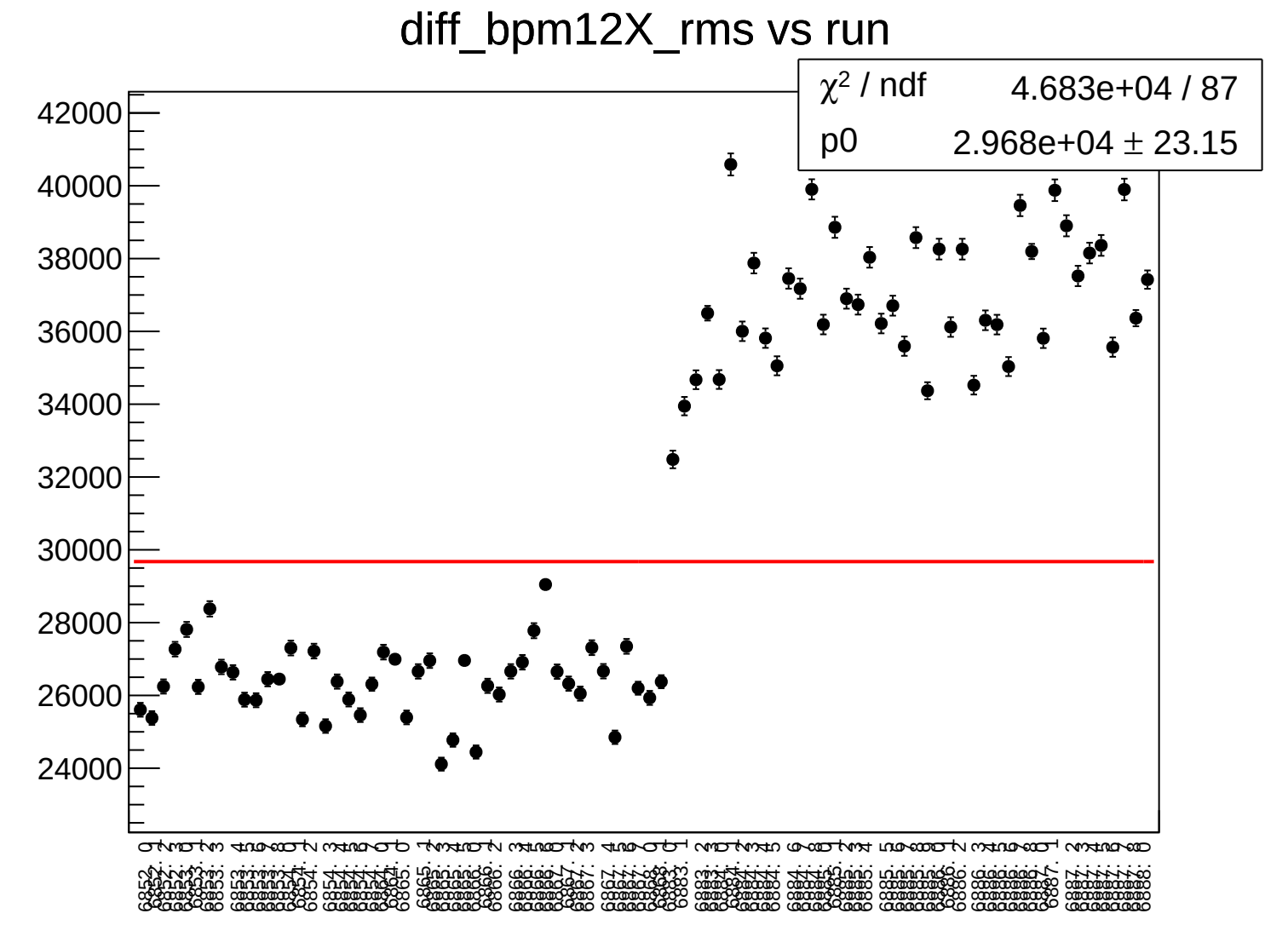

diff_bpm11X_rms vs run
χ² / ndf 4.325e+04 / 87
p0 1.144e+04 ± 8.913
16000
15000
14000
13000
12000
11000
10000
9000

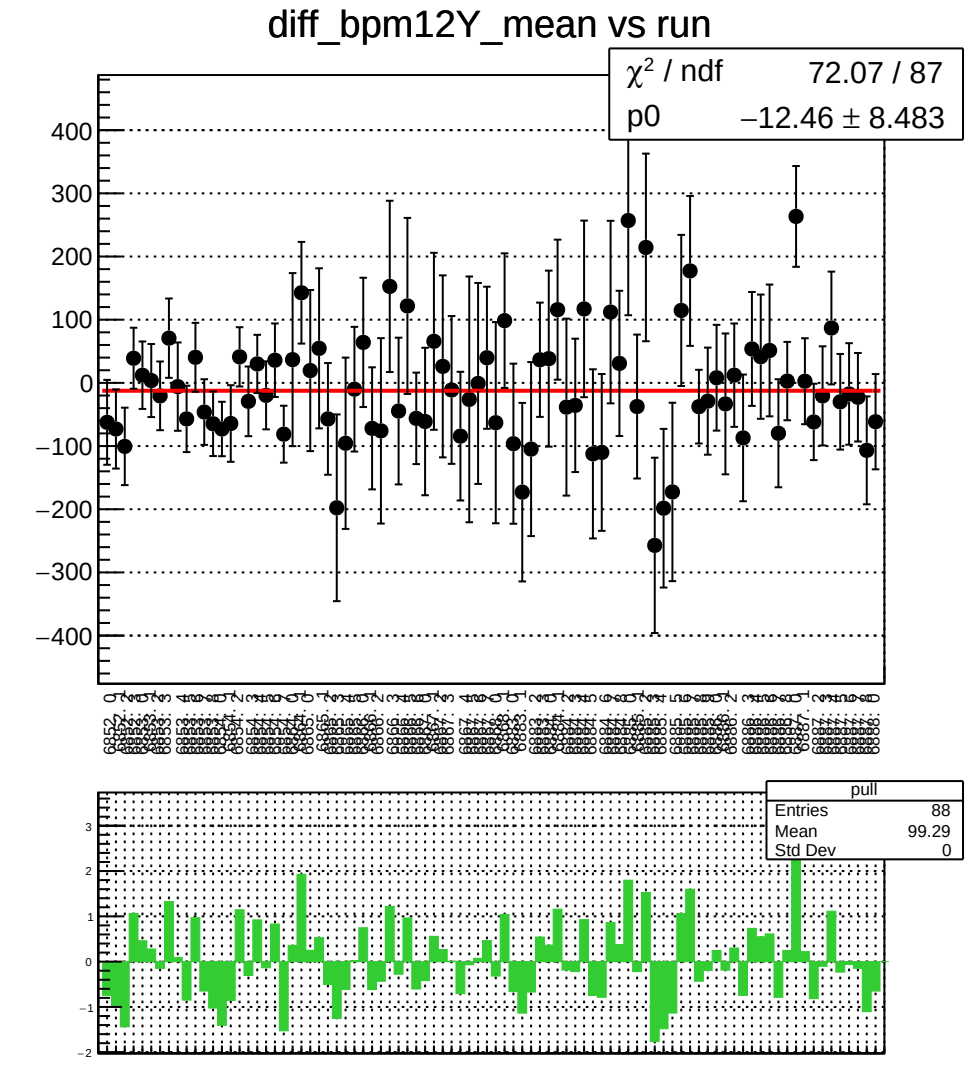

diff_bpm11Y_mean vs run
χ² / ndf 71.59 / 87
p0 −17.95 ± 12.22
600
400
200
0
−200
−400
−600
pull
Entries 88
Mean 151.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.02023
Std Dev 0.9018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

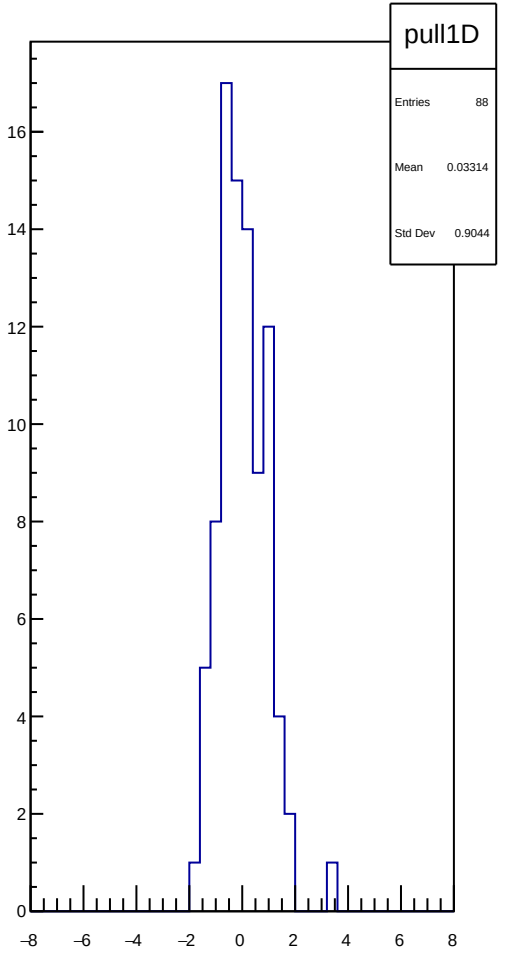

diff_bpm11Y_rms vs run
χ² / ndf 2.428e+05 / 87
p0 1.039e+04 ± 8.638
30000
25000
20000
15000
10000
5000

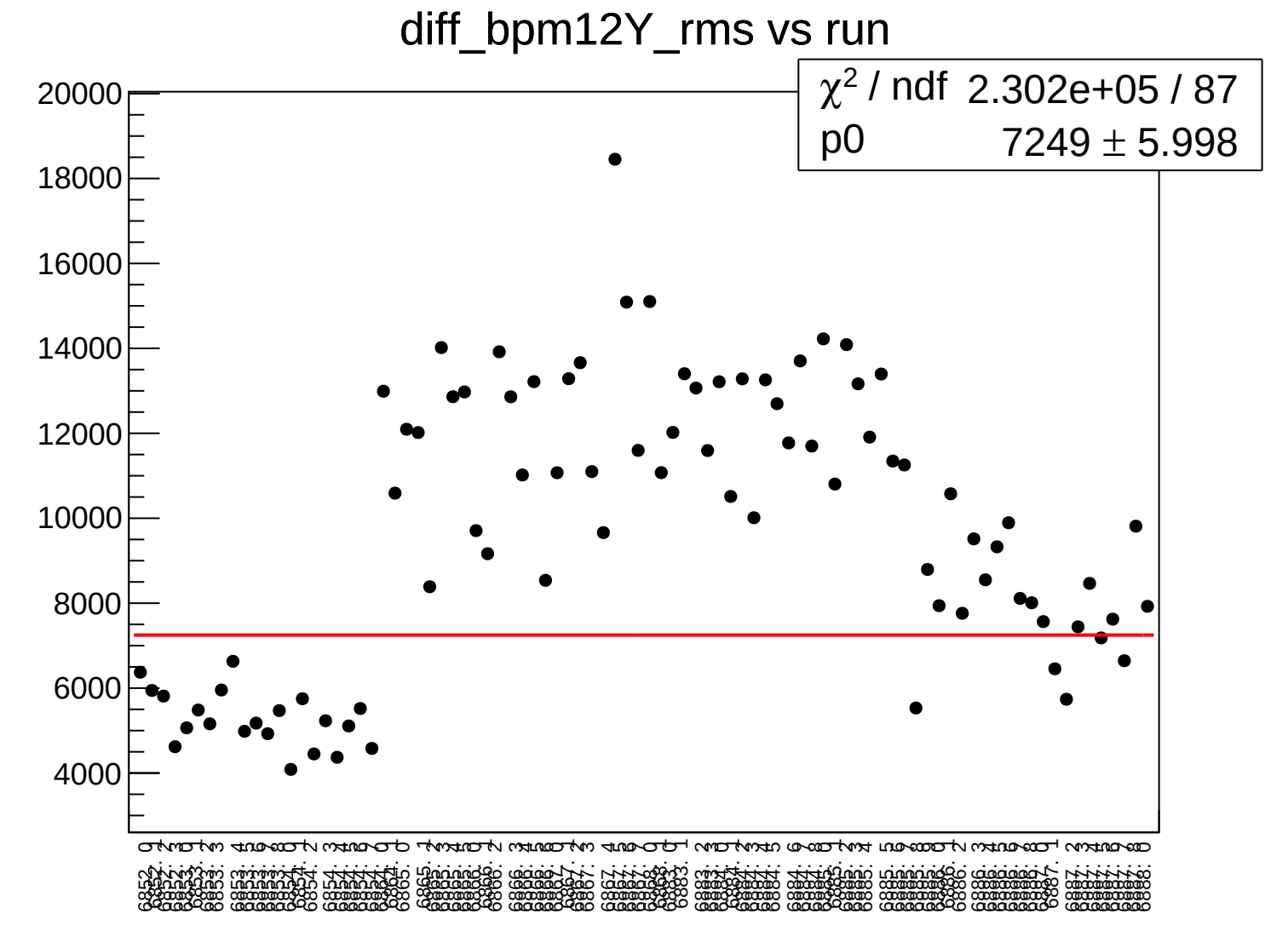

diff_bpm12X_mean vs run
χ² / ndf 87.66 / 87
p0 −25.5 ± 32.73
1500
1000
500
0
−500
−1000
pull
Entries 88
Mean 31.85
Std Dev 0
3
2
1
0
−1
−2

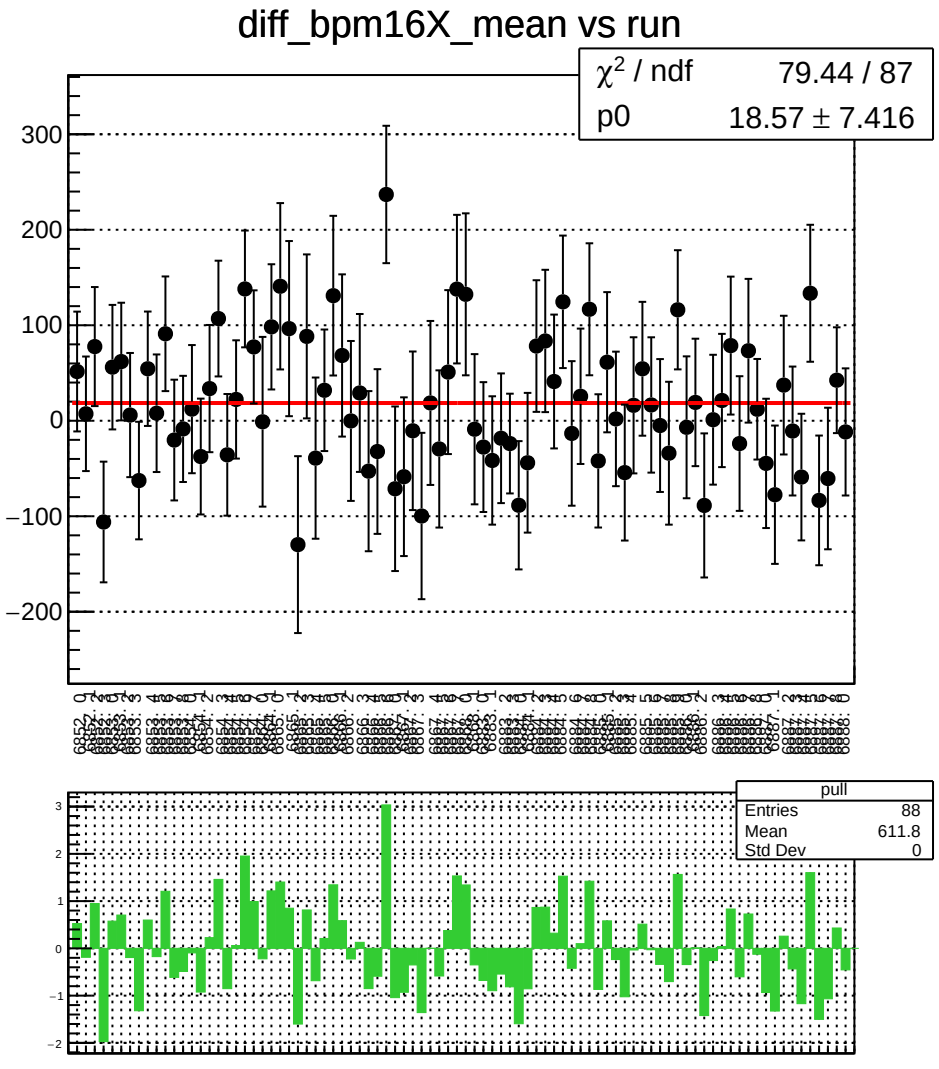

pull1D
Entries 88
Mean 0.01451
Std Dev 0.998
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

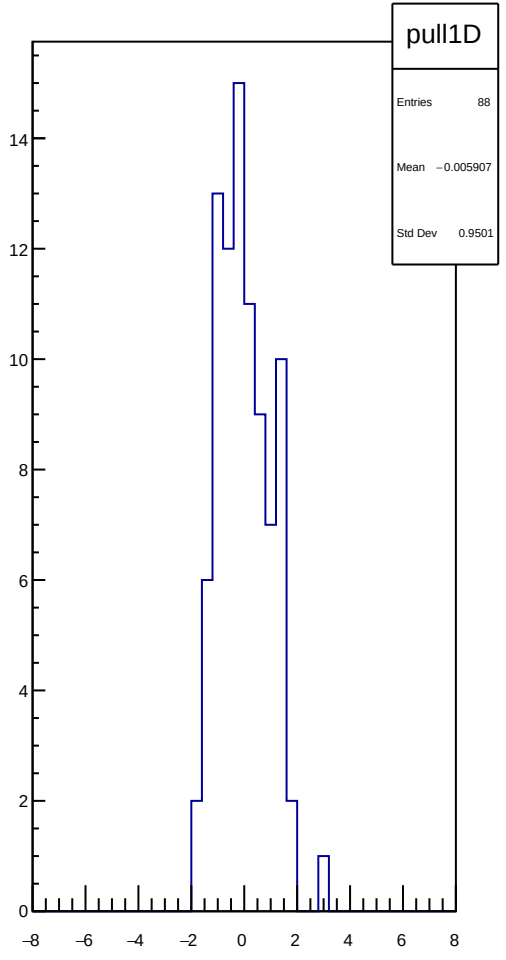

diff_bpm12X_rms vs run
χ² / ndf 4.683e+04 / 87
p0 2.968e+04 ± 23.15
42000
40000
38000
36000
34000
32000
30000
28000
26000
24000

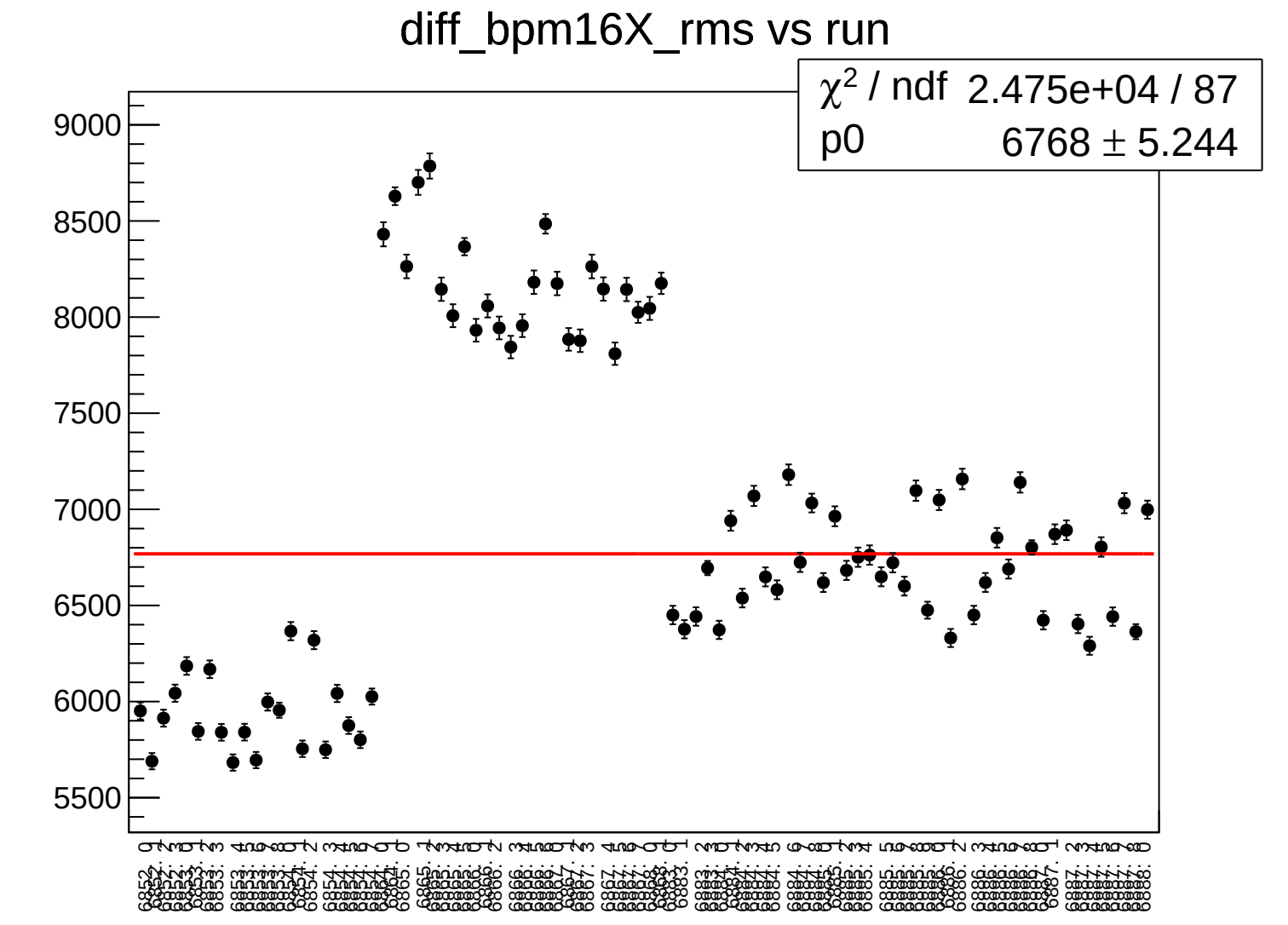

diff_bpm12Y_mean vs run
χ² / ndf 72.07 / 87
p0 −12.46 ± 8.483
pull
Entries 88
Mean 99.29
Std Dev 0

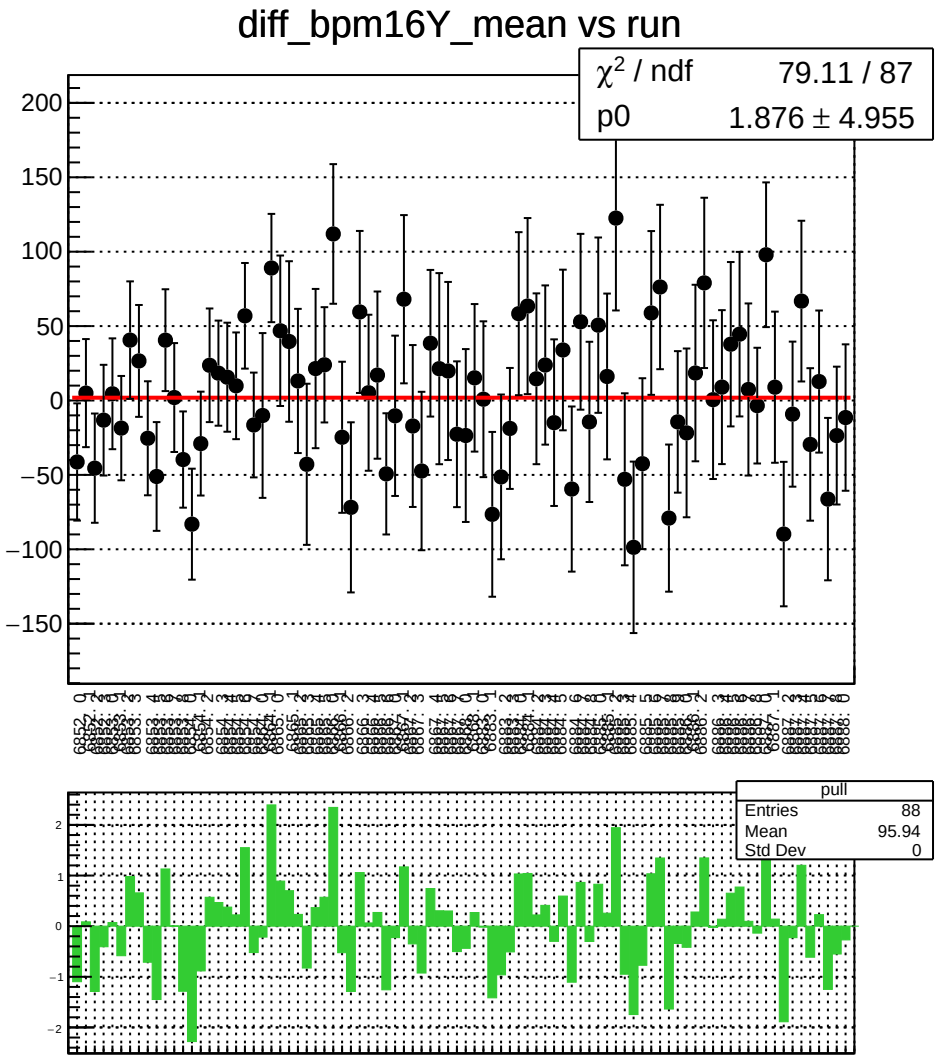

pull1D
Entries 88
Mean 0.03314
Std Dev 0.9044

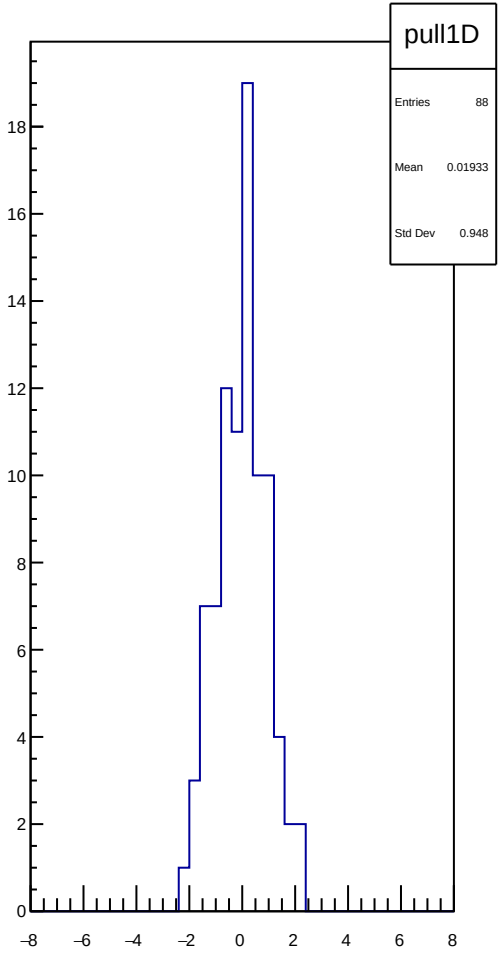

diff_bpm12Y_rms vs run
χ² / ndf 2.302e+05 / 87
p0 7249 ± 5.998
20000
18000
16000
14000
12000
10000
8000
6000
4000

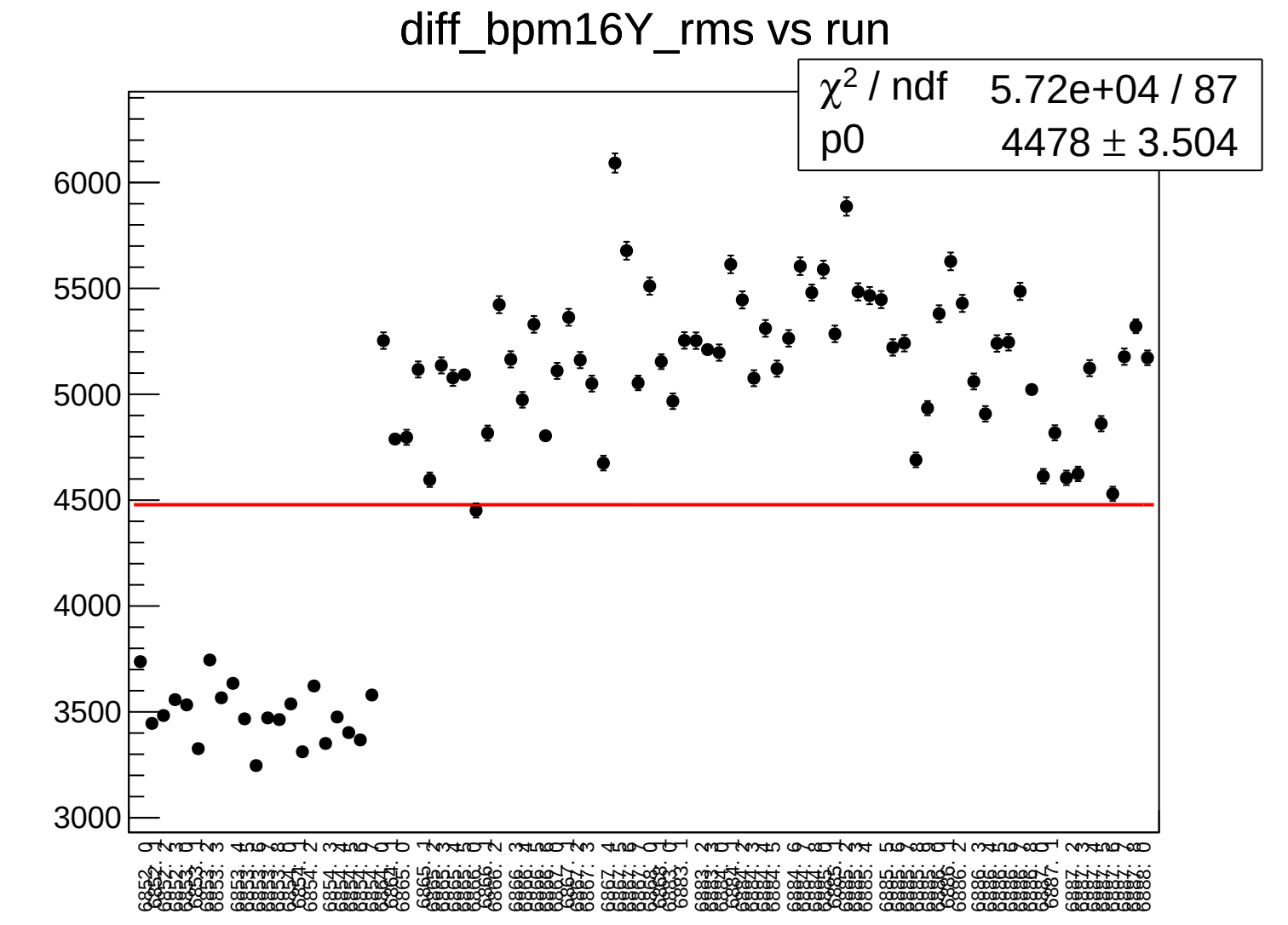

diff_bpm16X_mean vs run
χ² / ndf 79.44 / 87
p0 18.57 ± 7.416
300
200
100
0
−100
−200
pull
Entries 88
Mean 611.8
Std Dev 0
3
2
1
0
−1
−2

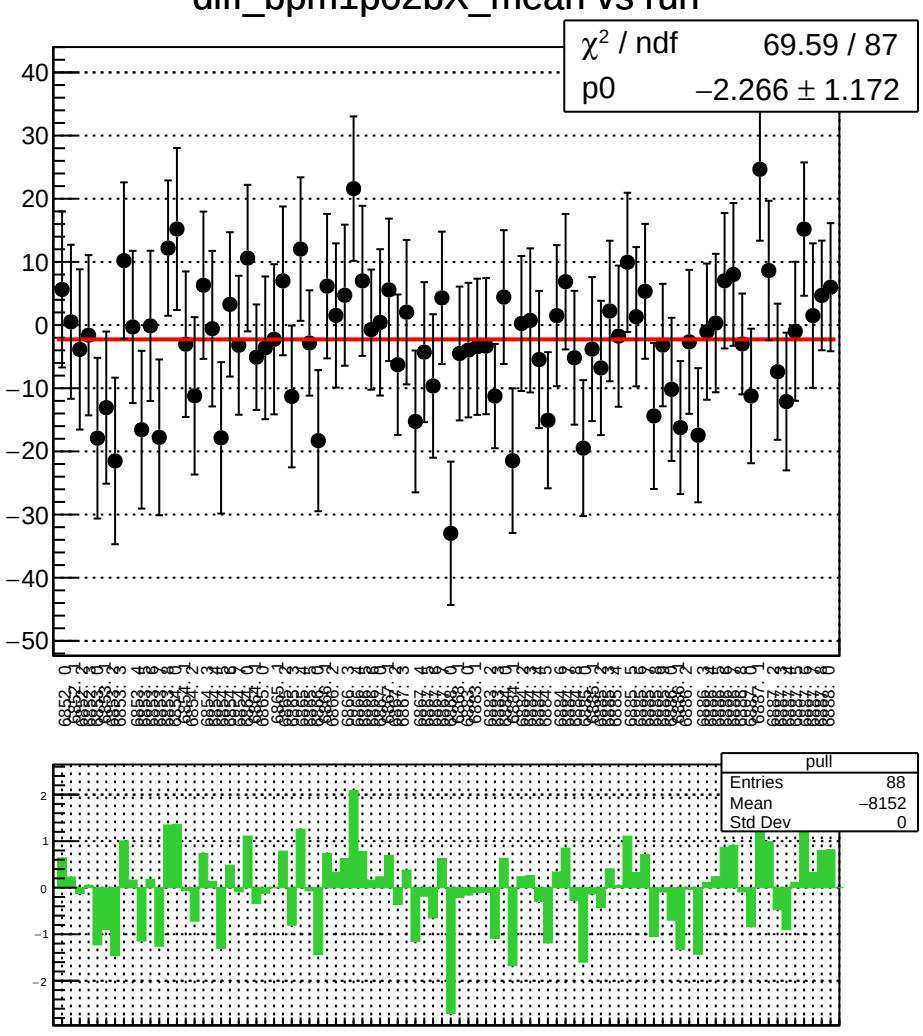

pull1D
Entries 88
Mean −0.005907
Std Dev 0.9501
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

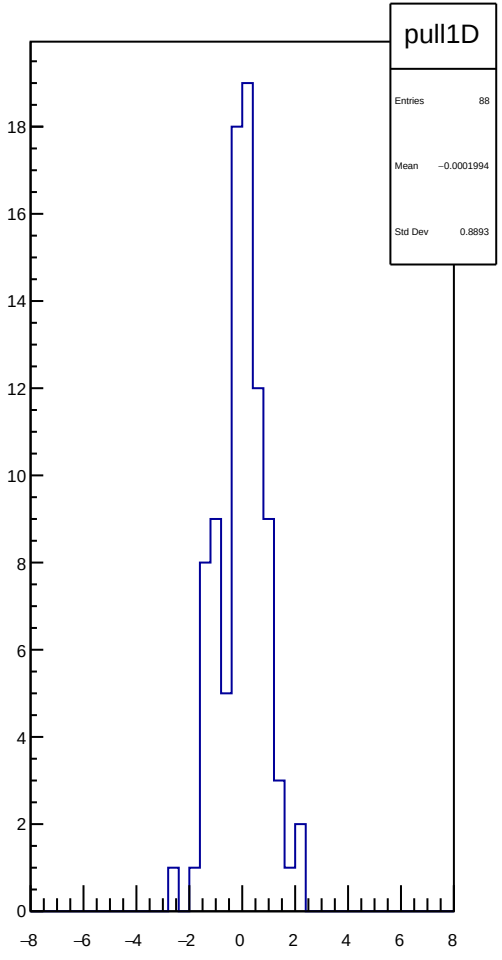

diff_bpm16X_rms vs run
χ² / ndf 2.475e+04 / 87
p0 6768 ± 5.244
9000
8500
8000
7500
7000
6500
6000
5500

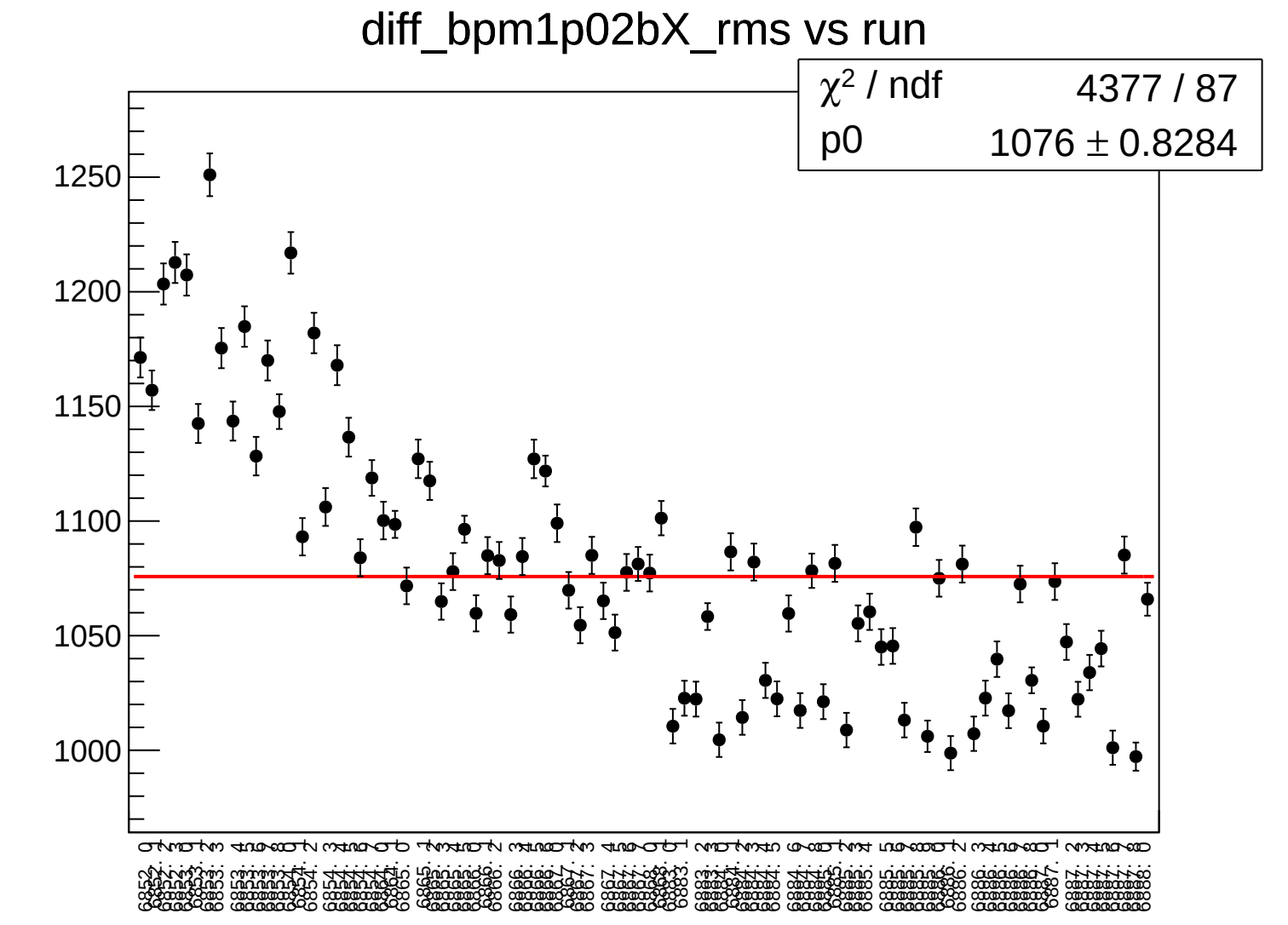

diff_bpm16Y_mean vs run
χ² / ndf 79.11 / 87
p0 1.876 ± 4.955
pull
Entries 88
Mean 95.94
Std Dev 0

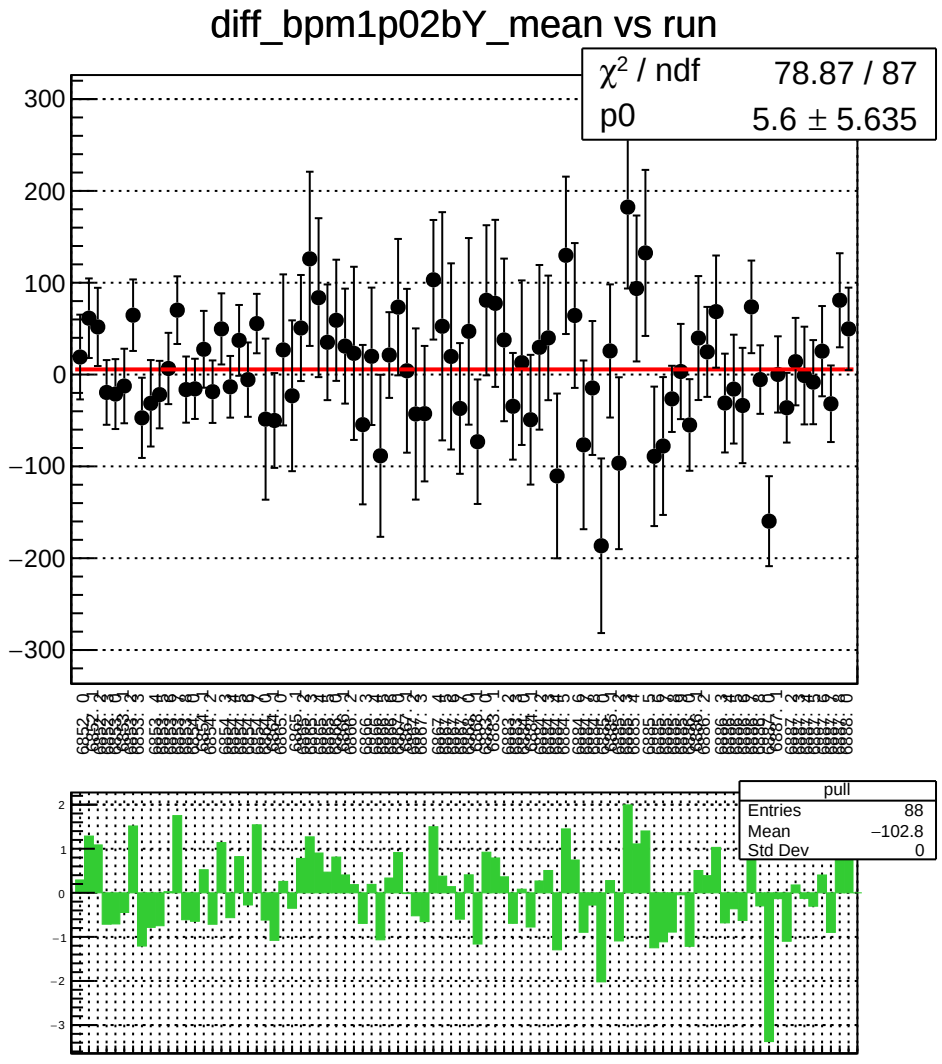

pull1D
Entries 88
Mean 0.01933
Std Dev 0.948

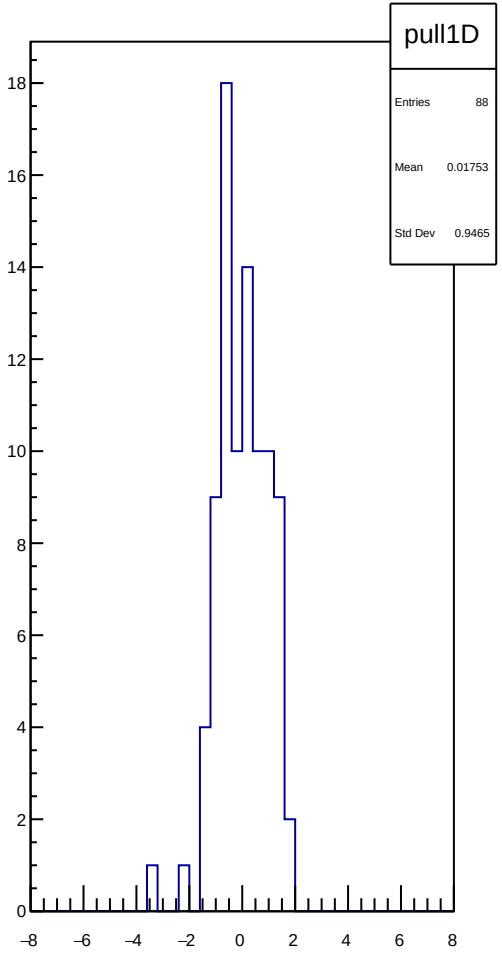

diff_bpm16Y_rms vs run
χ² / ndf 5.72e+04 / 87
p0 4478 ± 3.504
6000
5500
5000
4500
4000
3500
3000

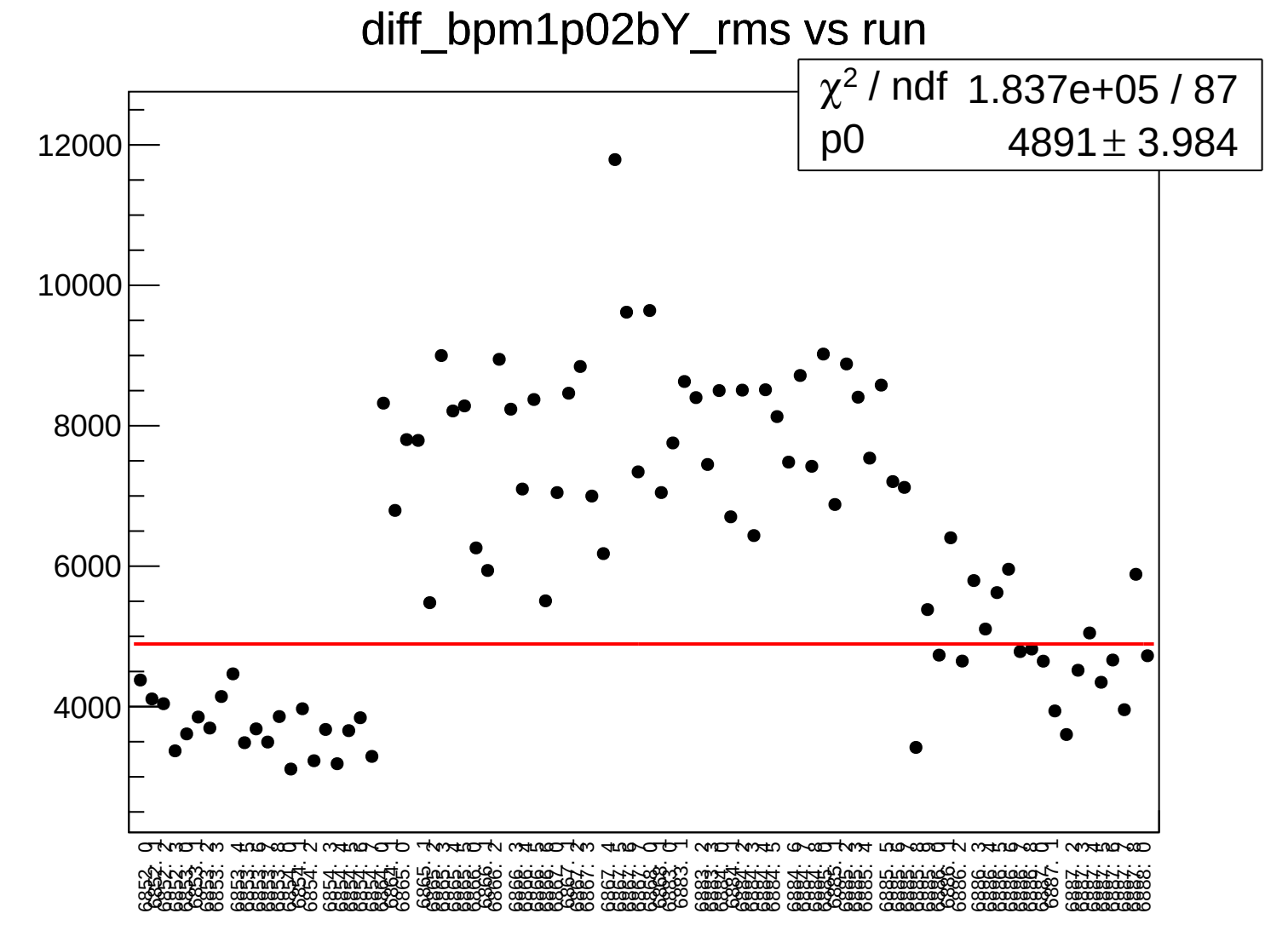

diff_bpm1p02bX_mean vs run
χ² / ndf 69.59 / 87
p0 −2.266 ± 1.172
pull
Entries 88
Mean −8152
Std Dev 0

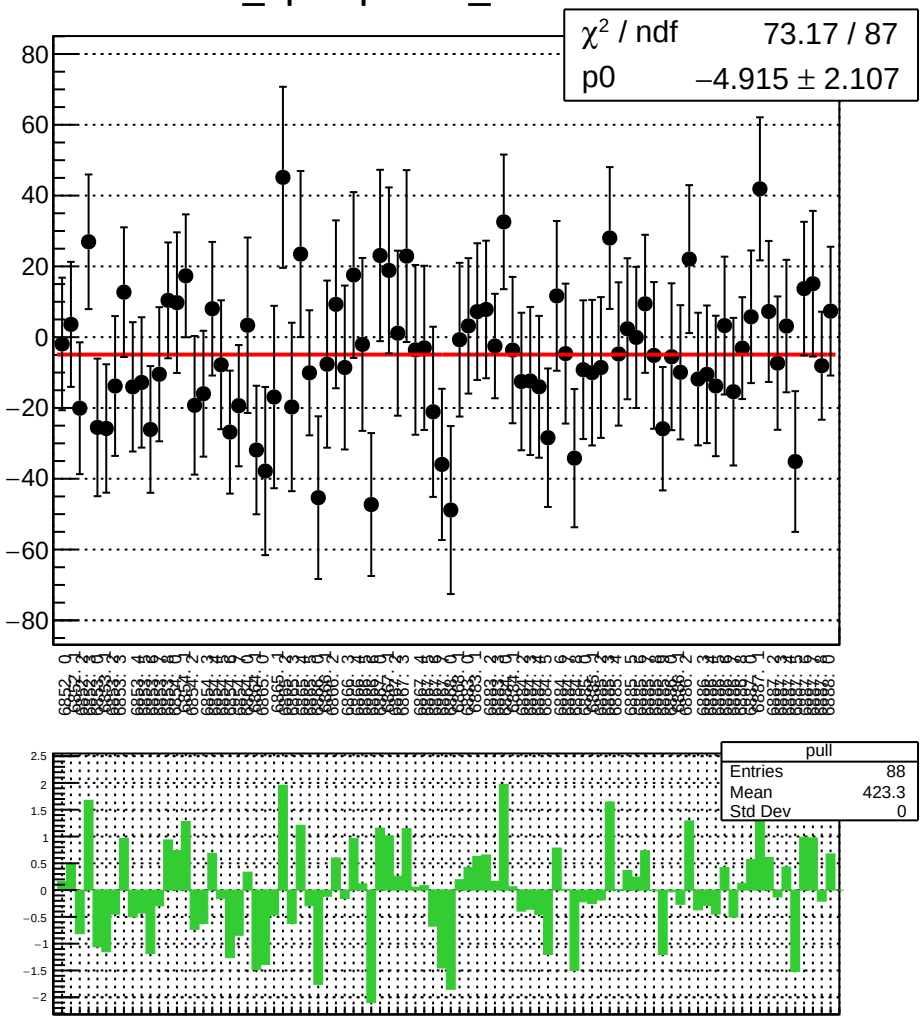

pull1D
Entries 88
Mean −0.0001994
Std Dev 0.8893

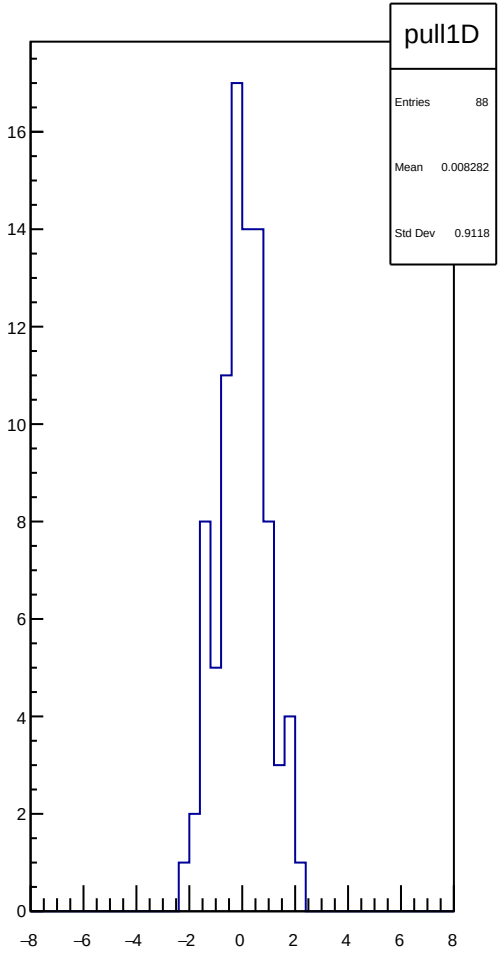

diff_bpm1p02bX_rms vs run
χ² / ndf 4377 / 87
p0 1076 ± 0.8284
1250
1200
1150
1100
1050
1000

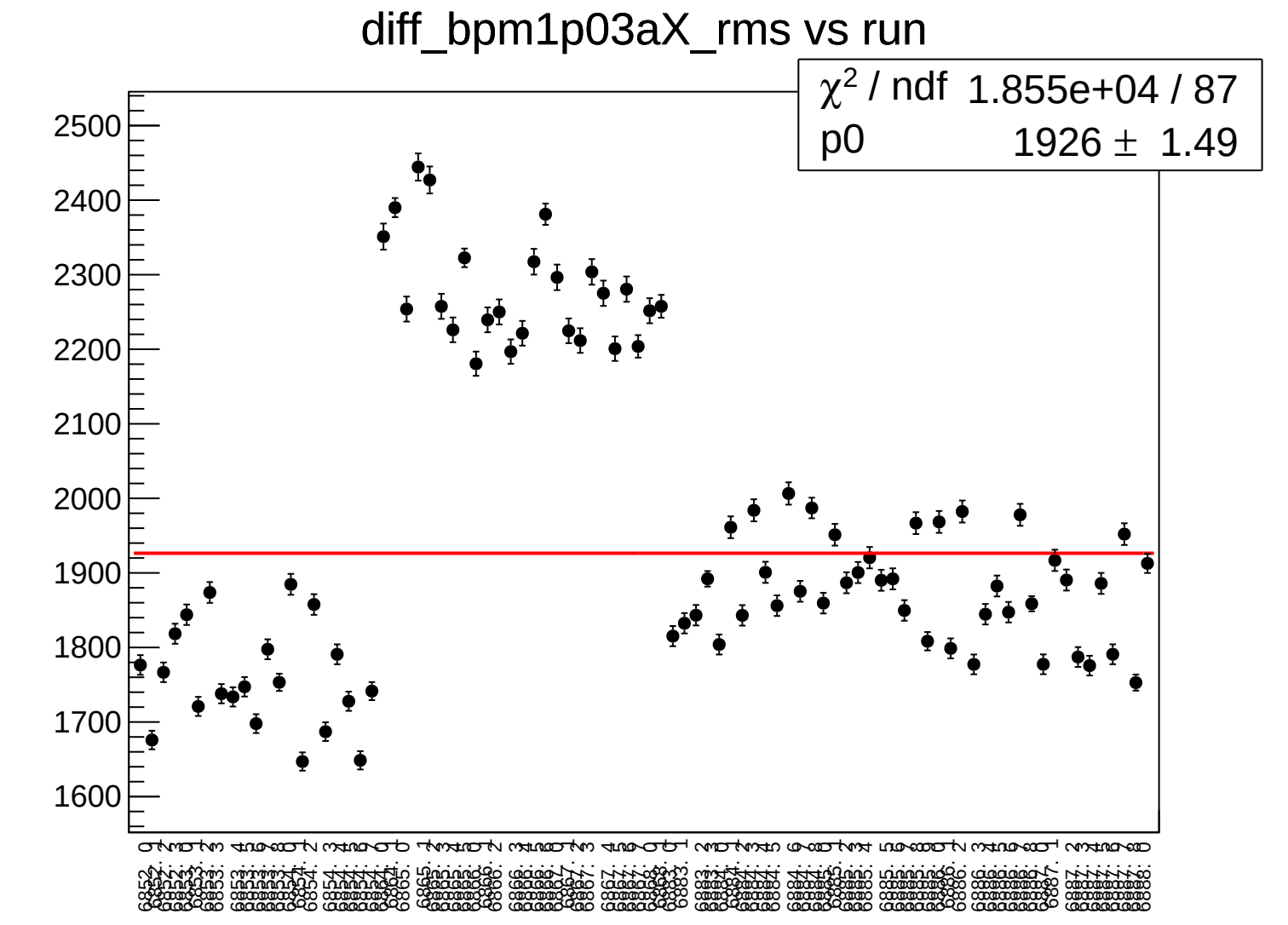

diff_bpm1p02bY_mean vs run
χ² / ndf 78.87 / 87
p0 5.6 ± 5.635
pull
Entries 88
Mean −102.8
Std Dev 0

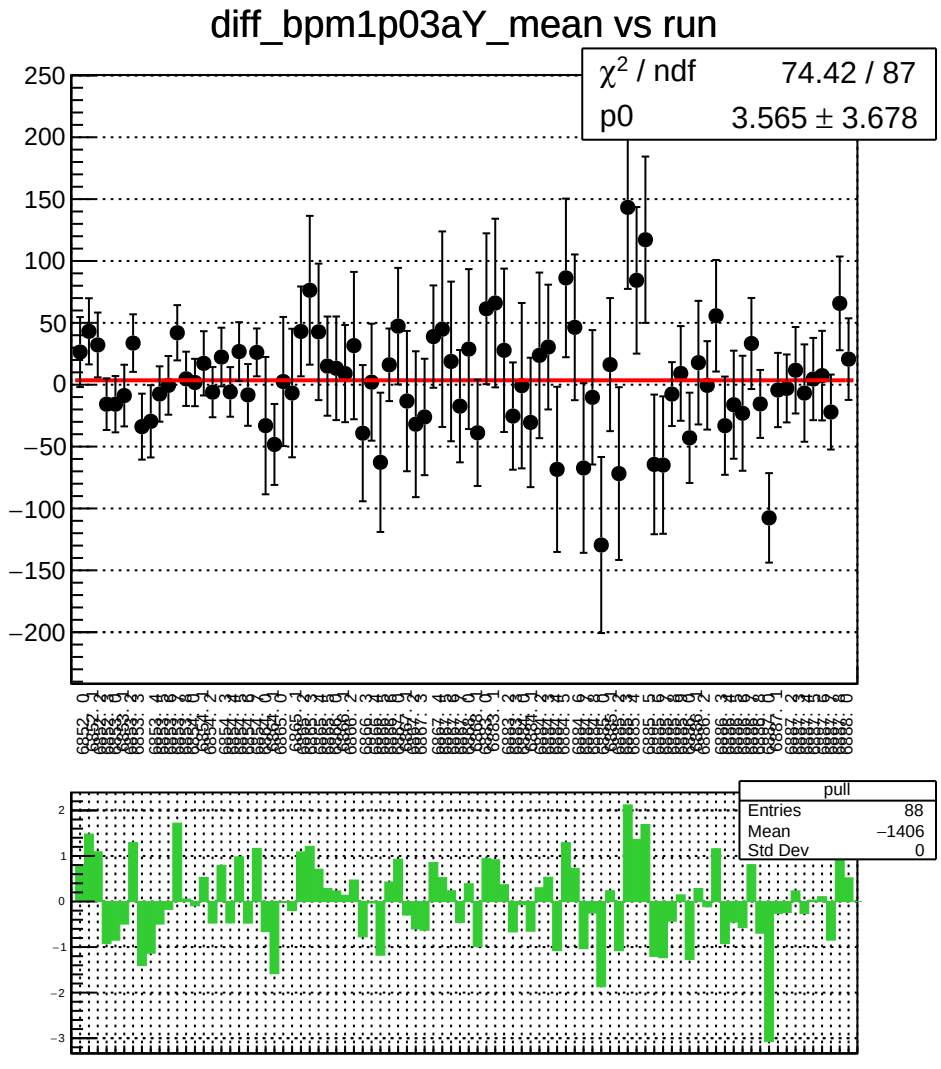

pull1D
Entries 88
Mean 0.01753
Std Dev 0.9465

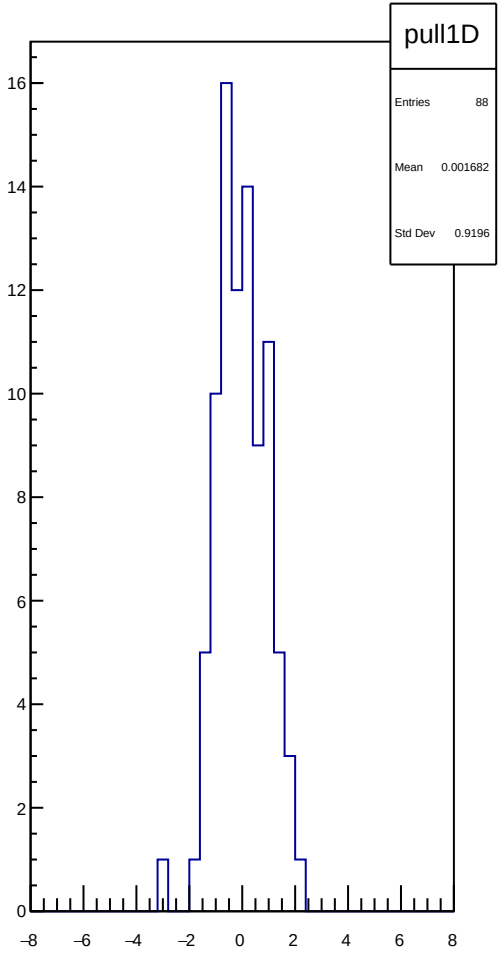

diff_bpm1p02bY_rms vs run
χ² / ndf 1.837e+05 / 87
p0 4891 ± 3.984
12000
10000
8000
6000
4000

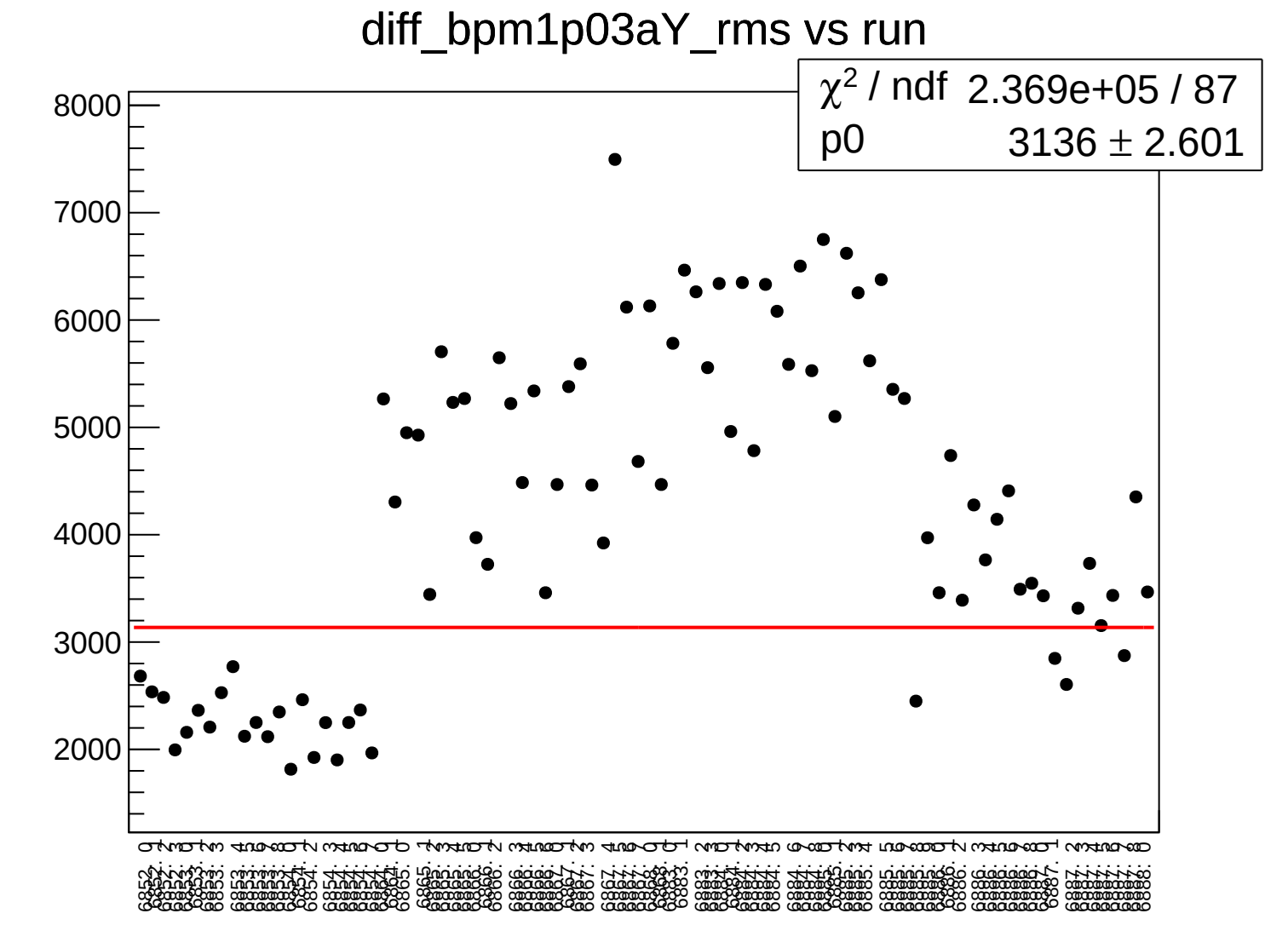

diff_bpm1p03aX_mean vs run
χ² / ndf 73.17 / 87
p0 −4.915 ± 2.107
pull
Entries 88
Mean 423.3
Std Dev 0

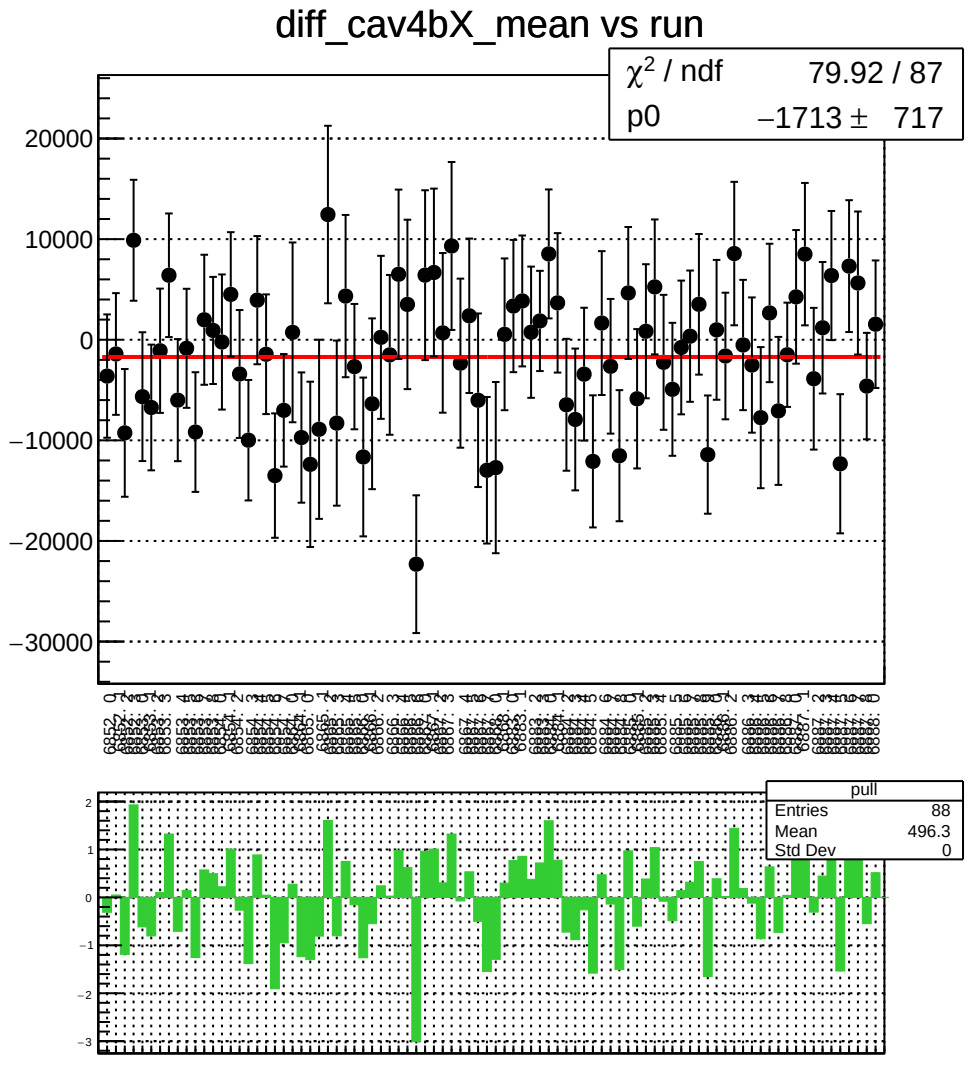

pull1D
Entries 88
Mean 0.008282
Std Dev 0.9118

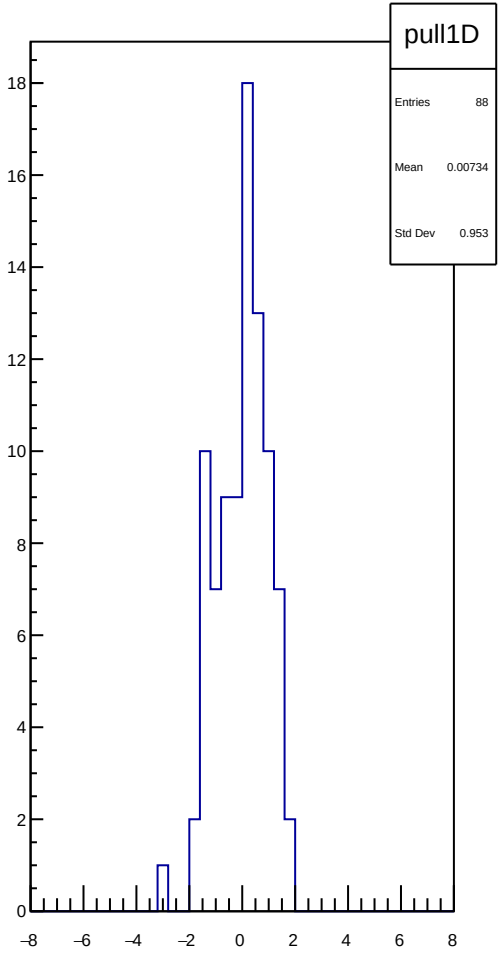

diff_bpm1p03aX_rms vs run
χ² / ndf 1.855e+04 / 87
p0 1926 ± 1.49
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

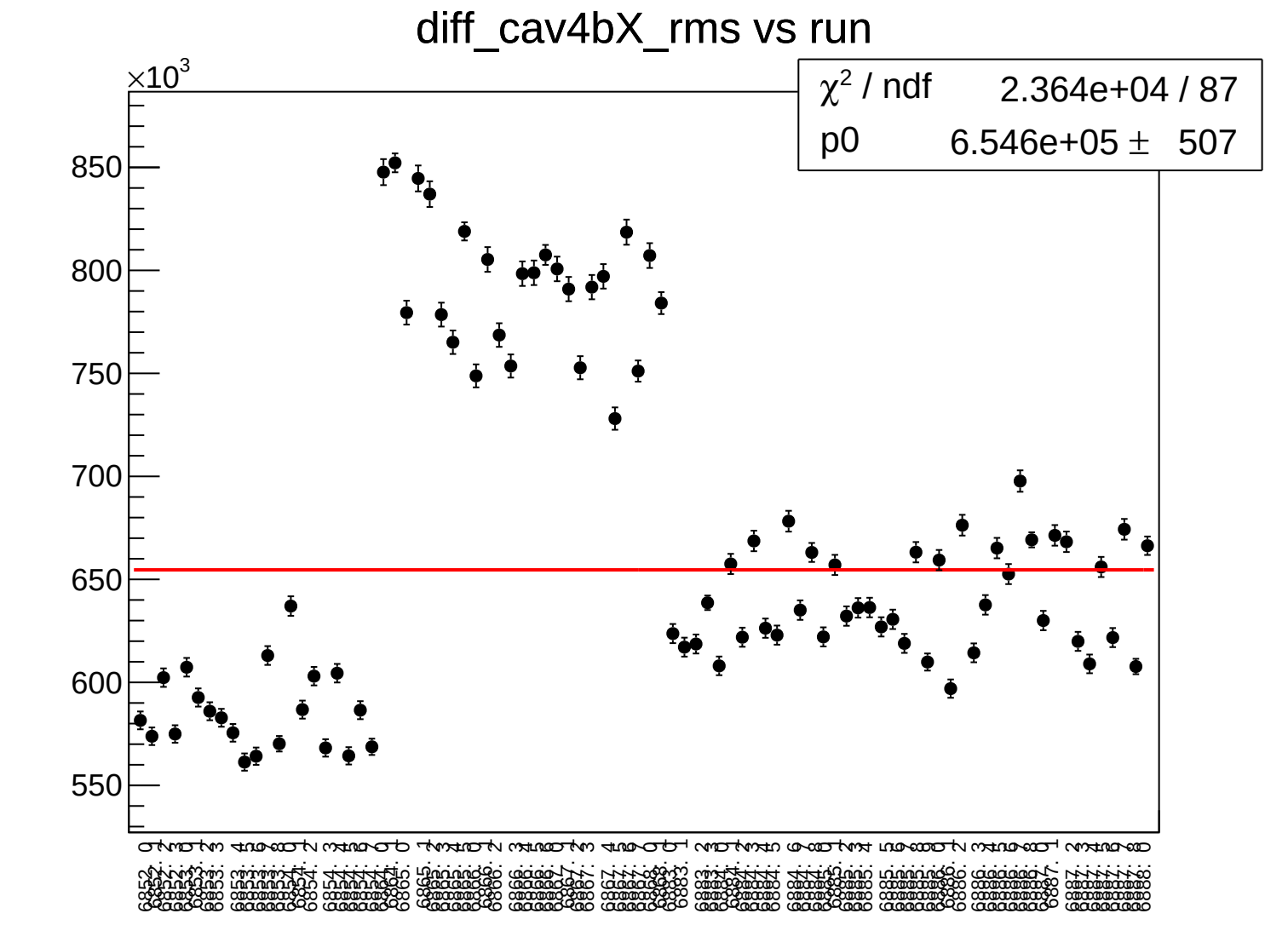

diff_bpm1p03aY_mean vs run
χ² / ndf 74.42 / 87
p0 3.565 ± 3.678
pull
Entries 88
Mean −1406
Std Dev 0

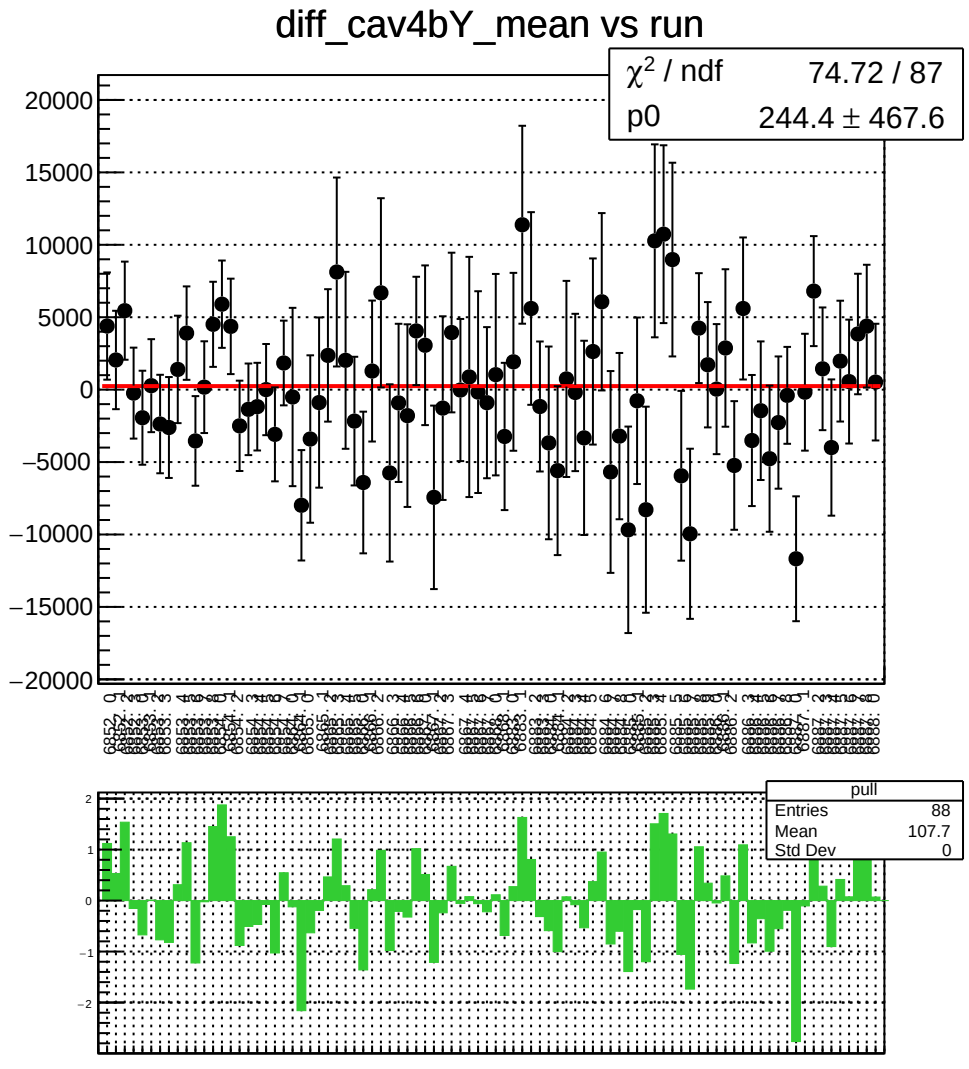

pull1D
Entries 88
Mean 0.001682
Std Dev 0.9196

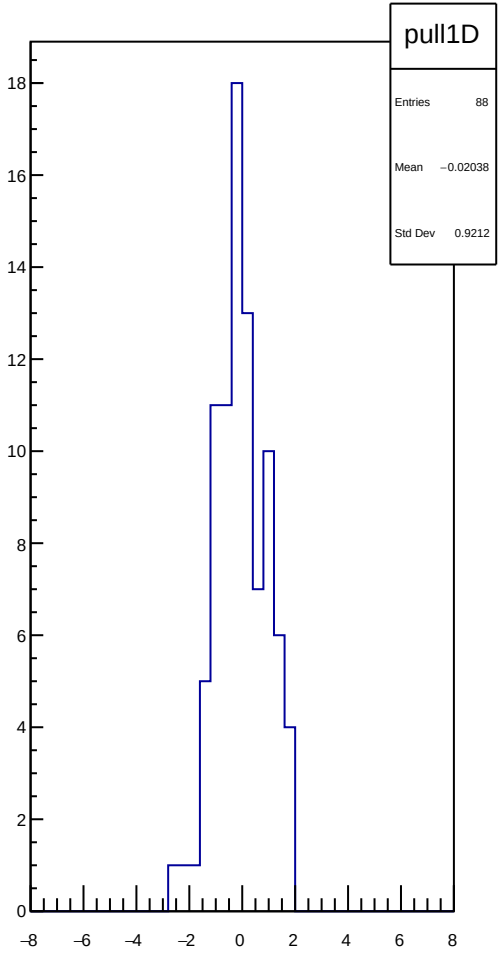

diff_bpm1p03aY_rms vs run
χ² / ndf 2.369e+05 / 87
p0 3136 ± 2.601
8000
7000
6000
5000
4000
3000
2000

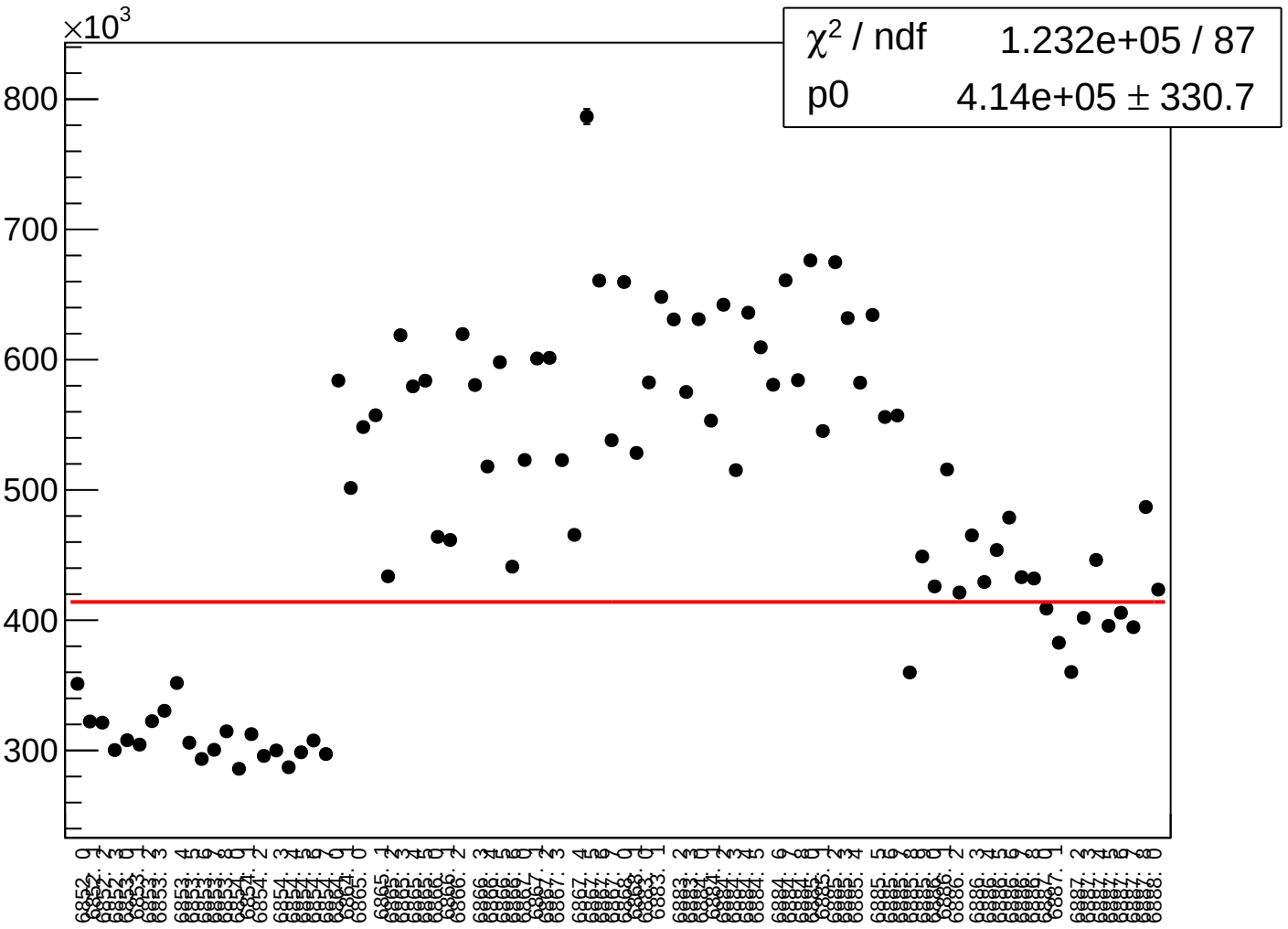

diff_cav4bX_mean vs run
χ² / ndf 79.92 / 87
p0 −1713 ± 717
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 496.3
Std Dev 0
2
1
0
−1
−2
−3

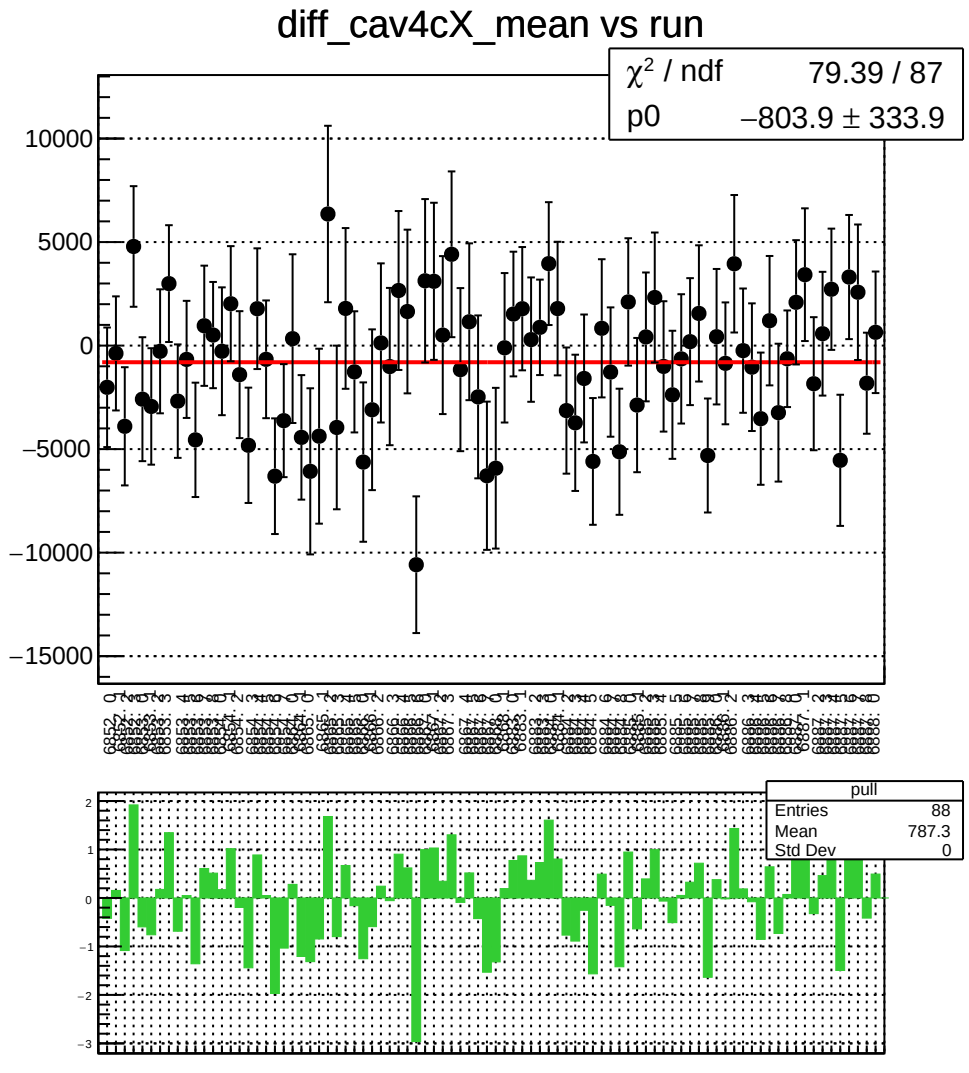

pull1D
Entries 88
Mean 0.00734
Std Dev 0.953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

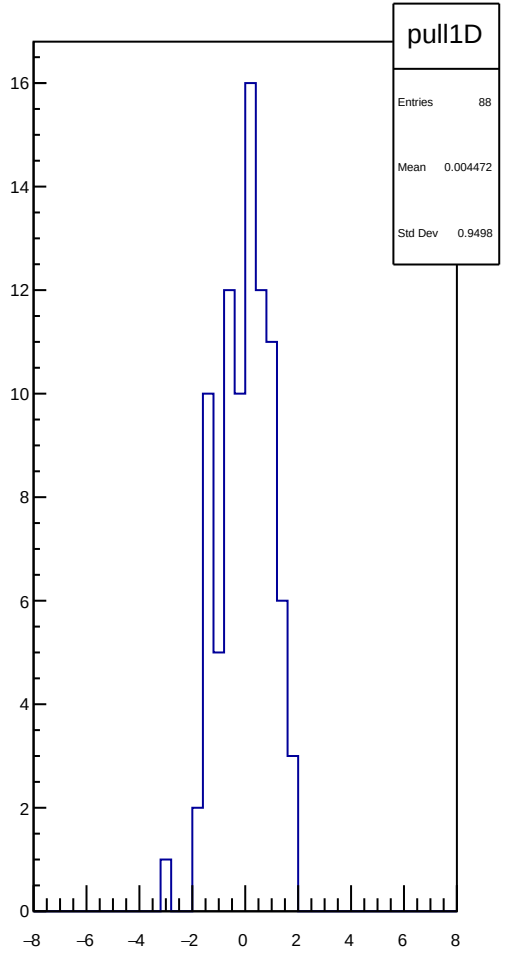

diff_cav4bX_rms vs run
×10^3
χ^2 / ndf 2.364e+04 / 87
p0 6.546e+05 ± 507
850
800
750
700
650
600
550

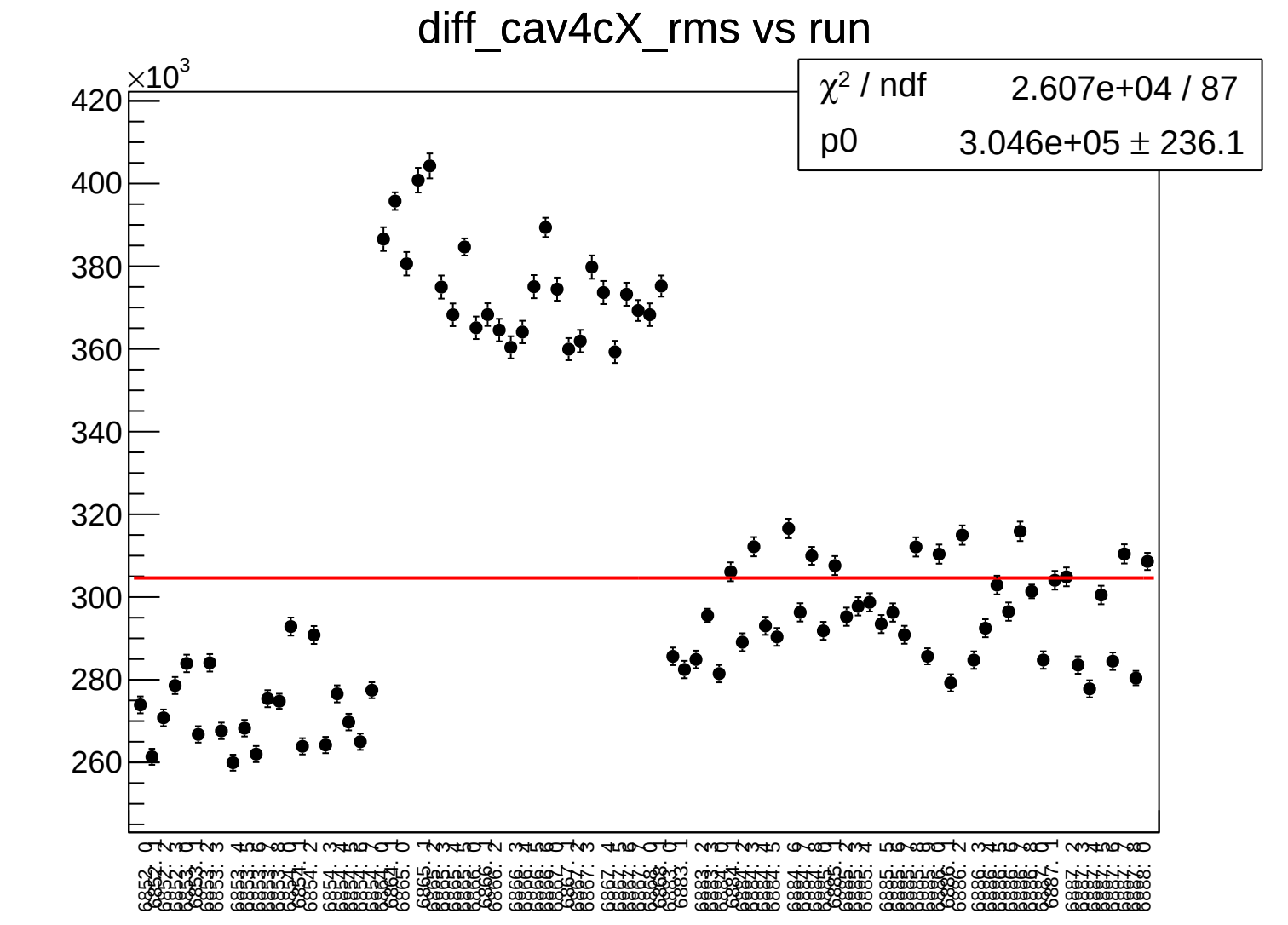

diff_cav4bY_mean vs run
χ² / ndf 74.72 / 87
p0 244.4 ± 467.6
pull
Entries 88
Mean 107.7
Std Dev 0

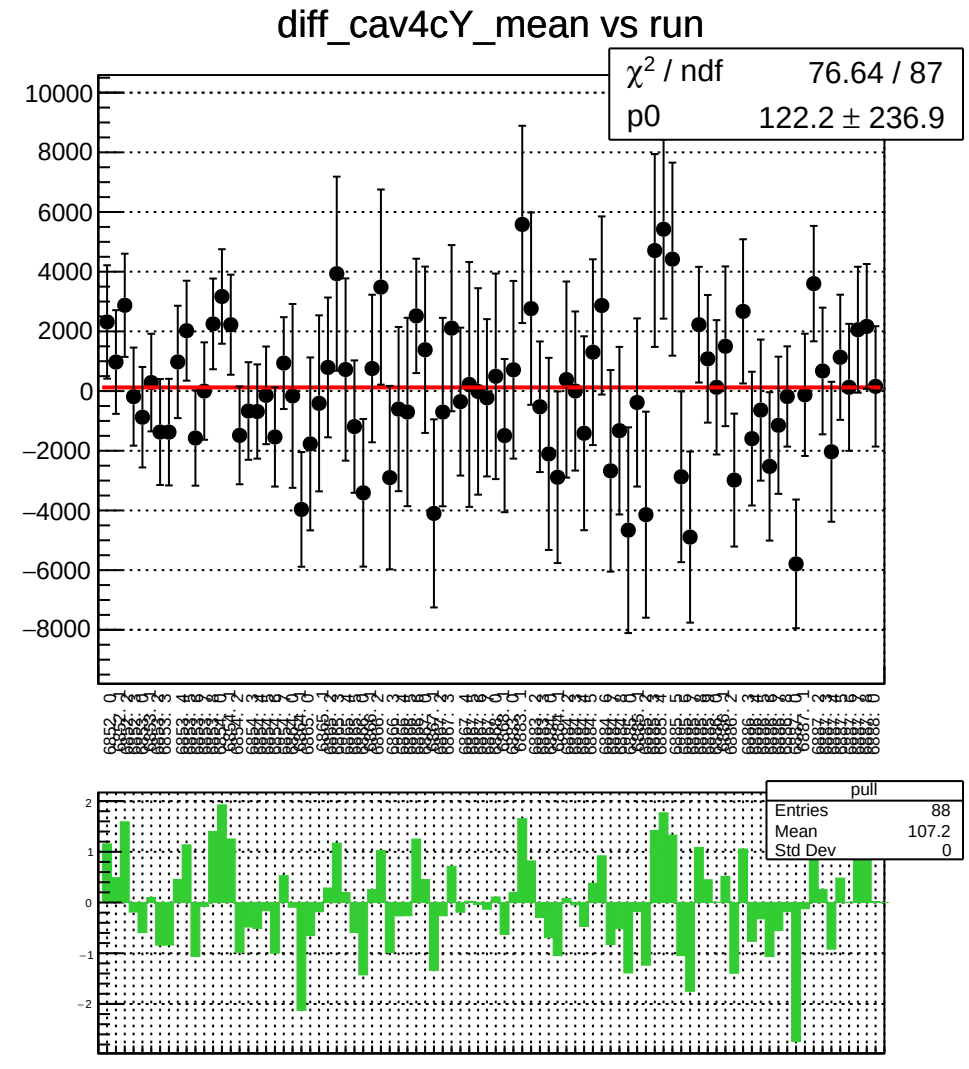

pull1D
Entries 88
Mean −0.02038
Std Dev 0.9212

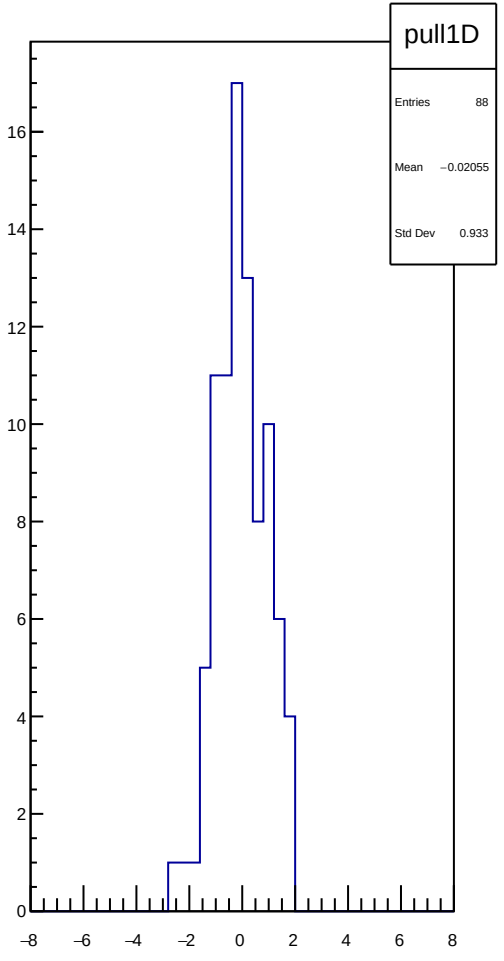

diff_cav4bY_rms vs run
×10^3
800
700
600
500
400
300
χ² / ndf 1.232e+05 / 87
p0 4.14e+05 ± 330.7

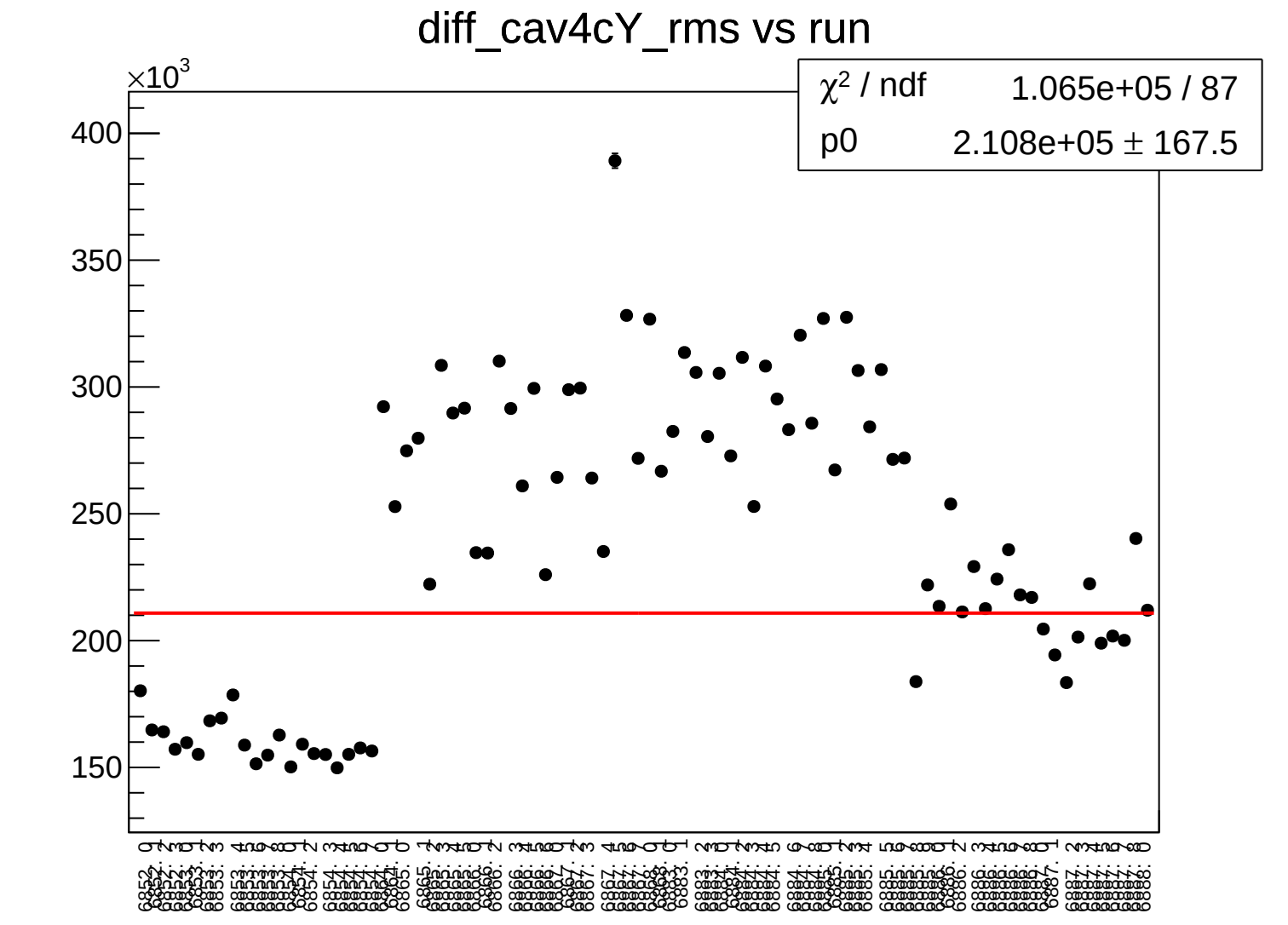

diff_cav4cX_mean vs run
χ² / ndf 79.39 / 87
p0 −803.9 ± 333.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 787.3
Std Dev 0
2
1
0
−1
−2
−3

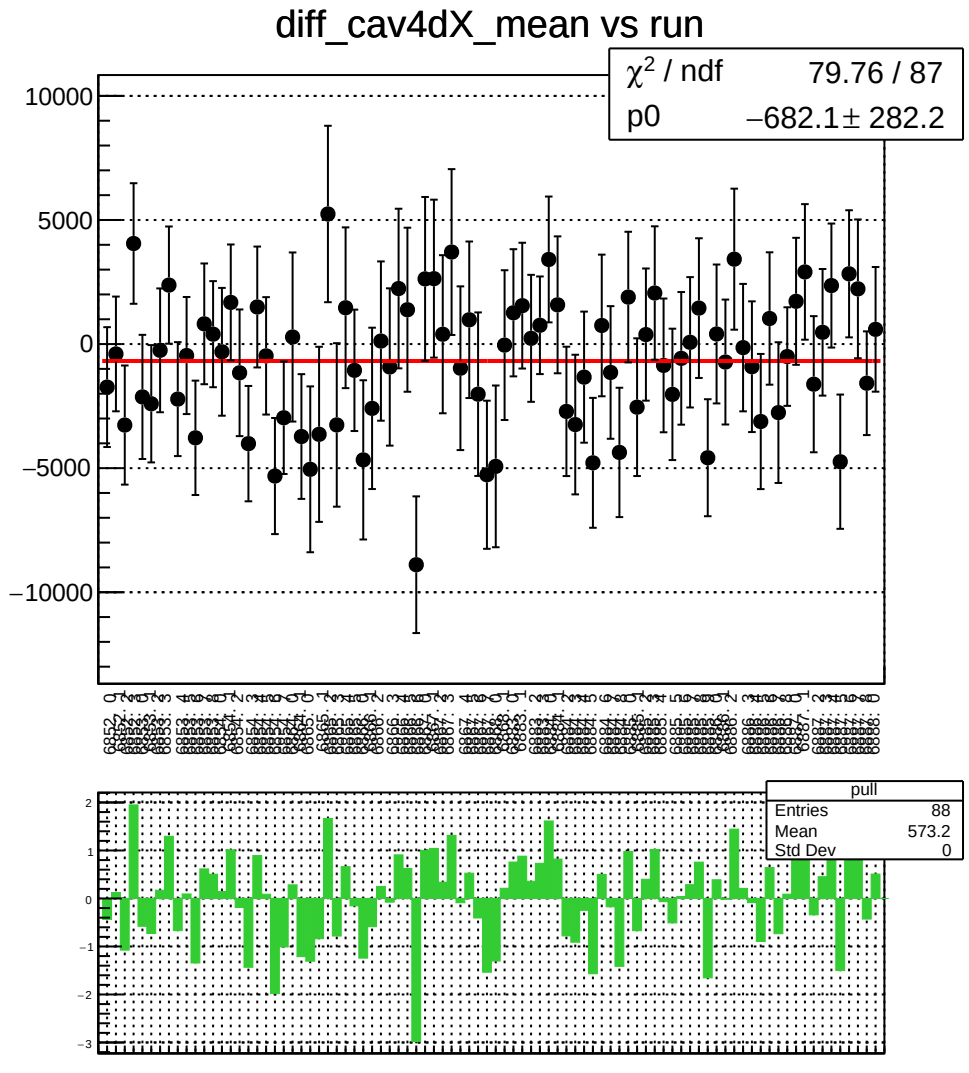

pull1D
Entries 88
Mean 0.004472
Std Dev 0.9498
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

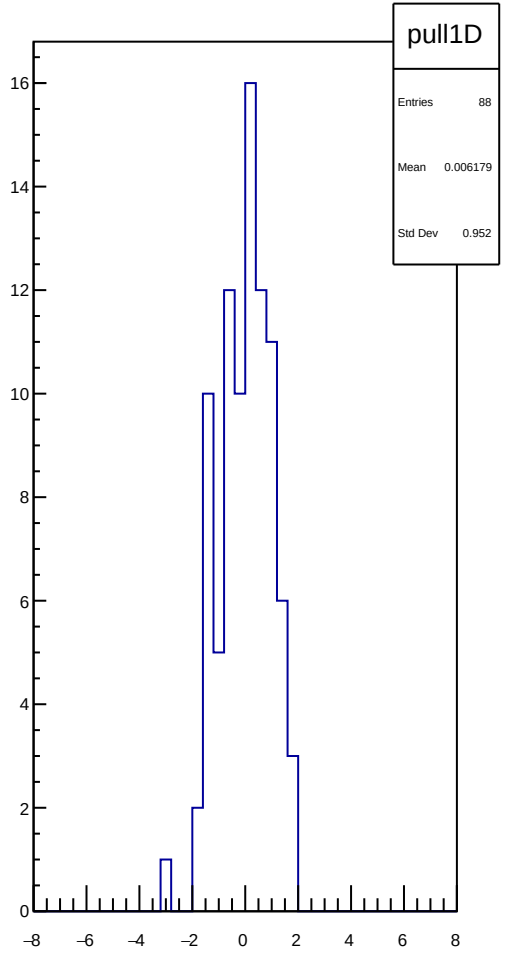

diff_cav4cX_rms vs run
×10^3
420
400
380
360
340
320
300
280
260
χ² / ndf 2.607e+04 / 87
p0 3.046e+05 ± 236.1

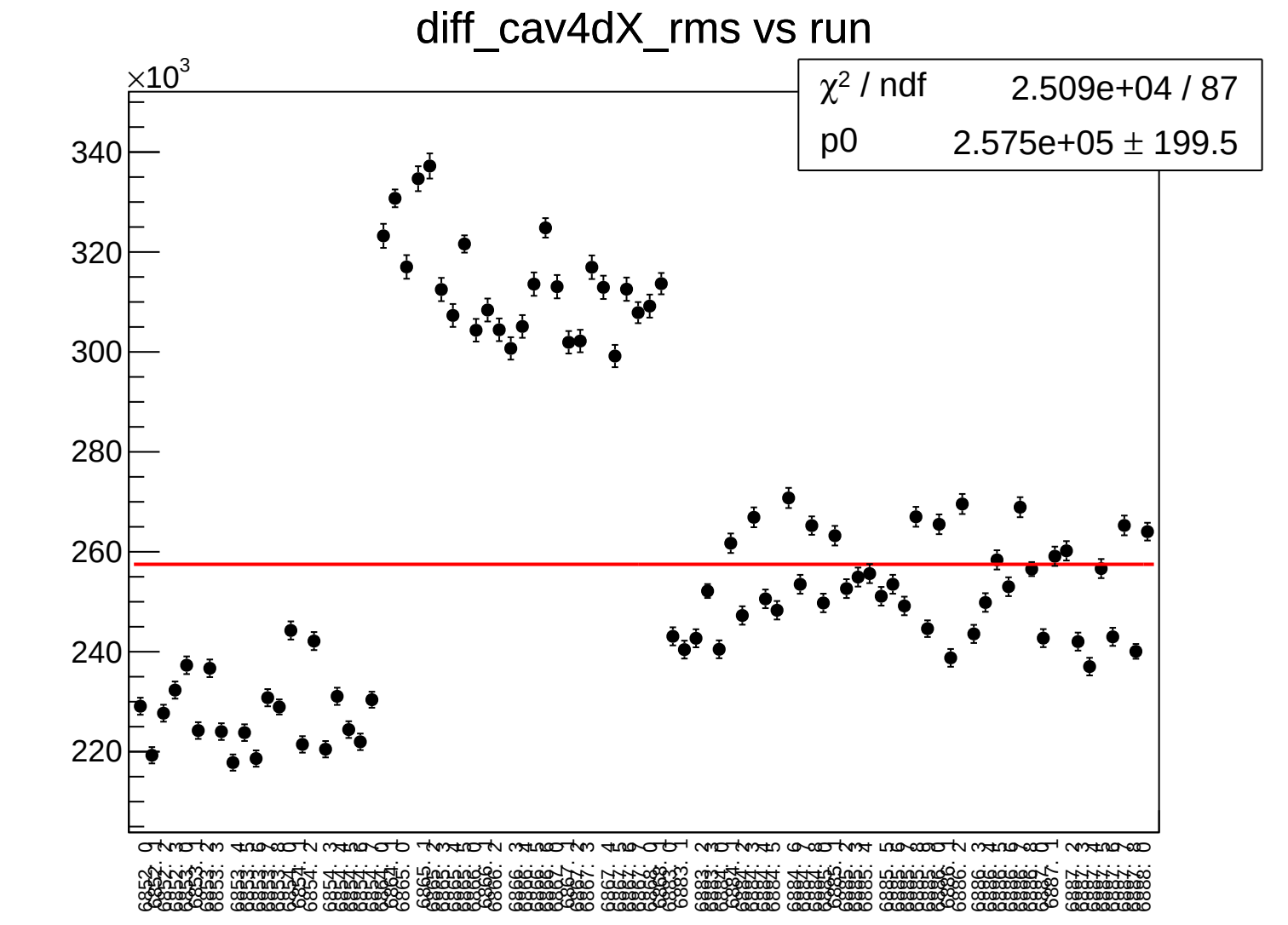

diff_cav4cY_mean vs run
χ^2 / ndf 76.64 / 87
p0 122.2 ± 236.9
pull
Entries 88
Mean 107.2
Std Dev 0

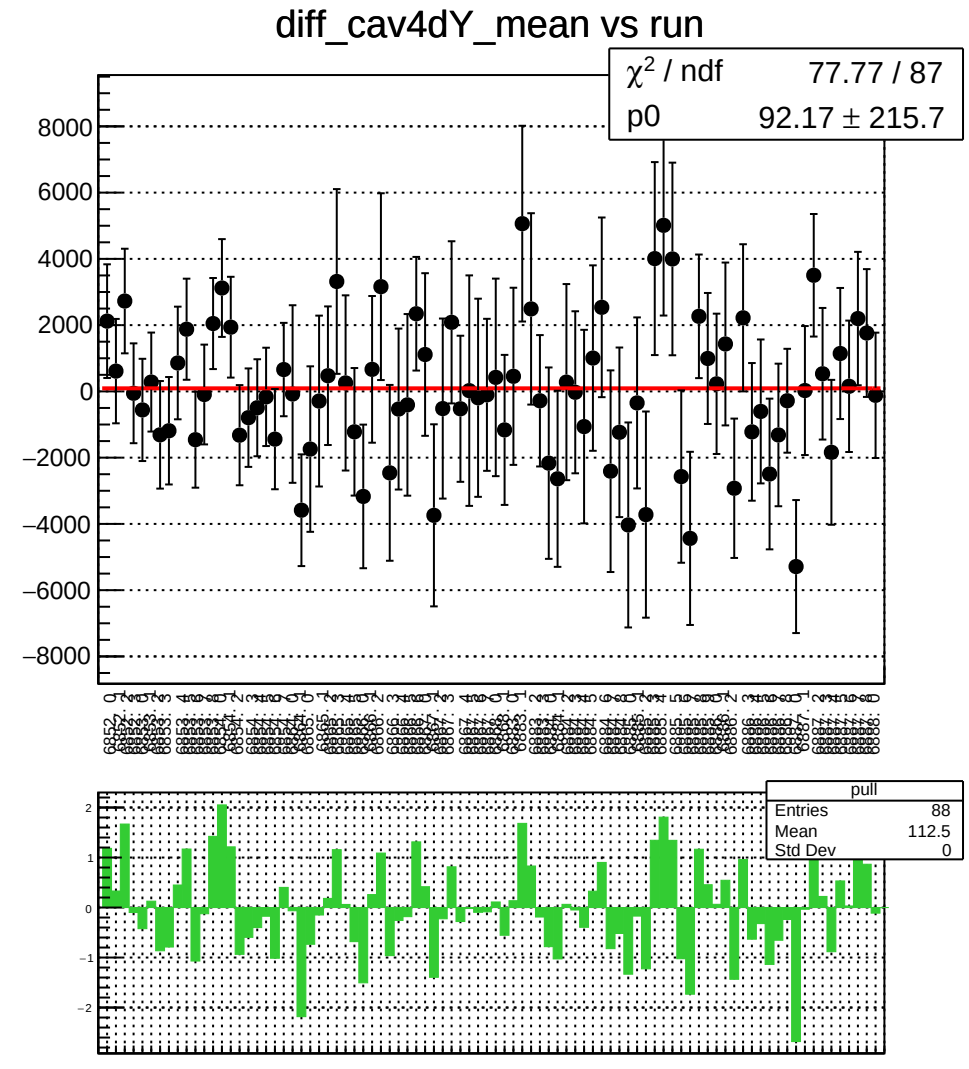

pull1D
Entries 88
Mean −0.02055
Std Dev 0.933

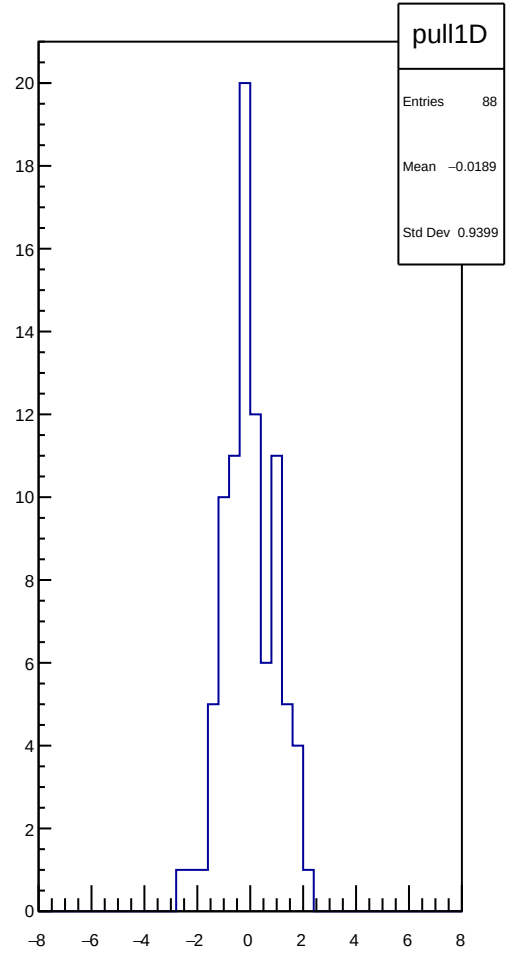

diff_cav4cY_rms vs run
×10^3
400
350
300
250
200
150
χ² / ndf 1.065e+05 / 87
p0 2.108e+05 ± 167.5

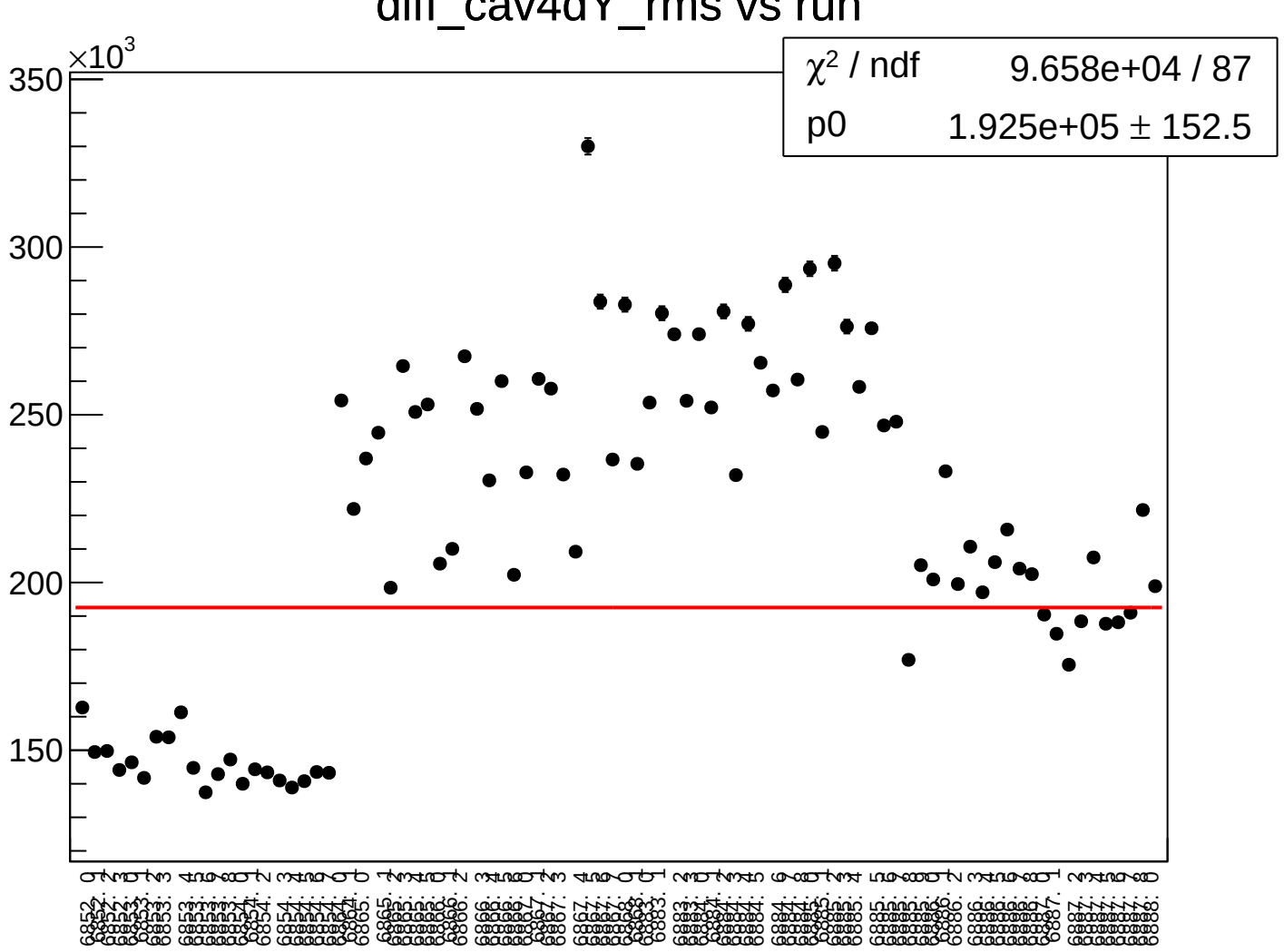

diff_cav4dX_mean vs run
χ² / ndf 79.76 / 87
p0 −682.1± 282.2
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 573.2
Std Dev 0
2
1
0
−1
−2
−3

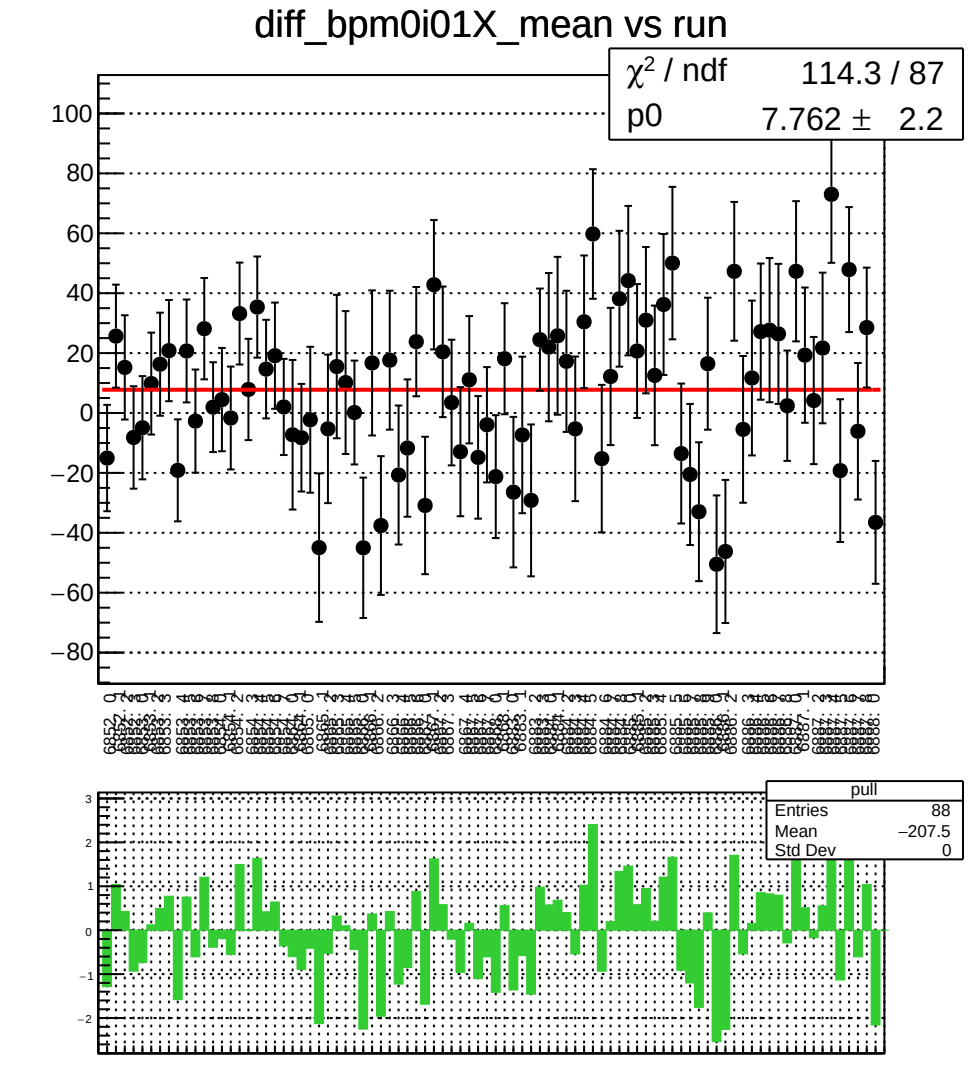

pull1D
Entries 88
Mean 0.006179
Std Dev 0.952
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

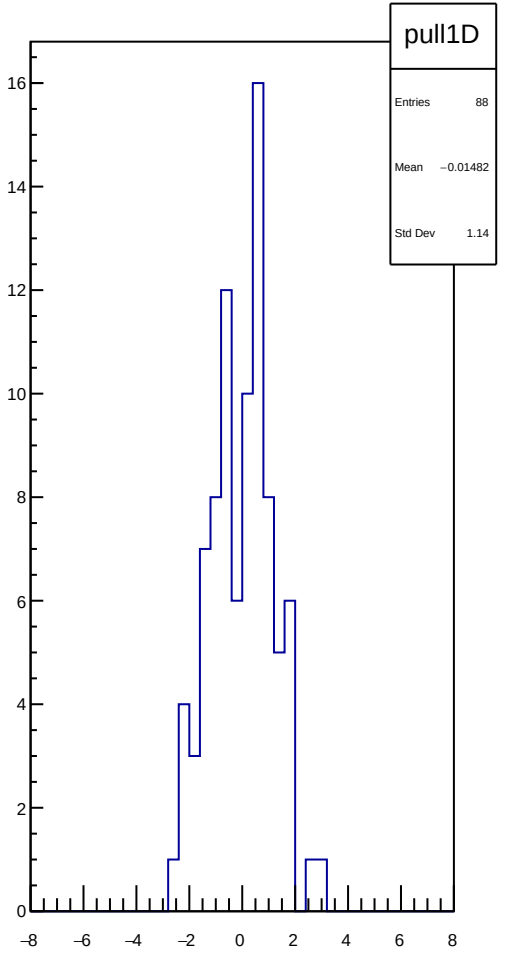

diff_cav4dX_rms vs run
×10^3
340
320
300
280
260
240
220
χ² / ndf 2.509e+04 / 87
p0 2.575e+05 ± 199.5

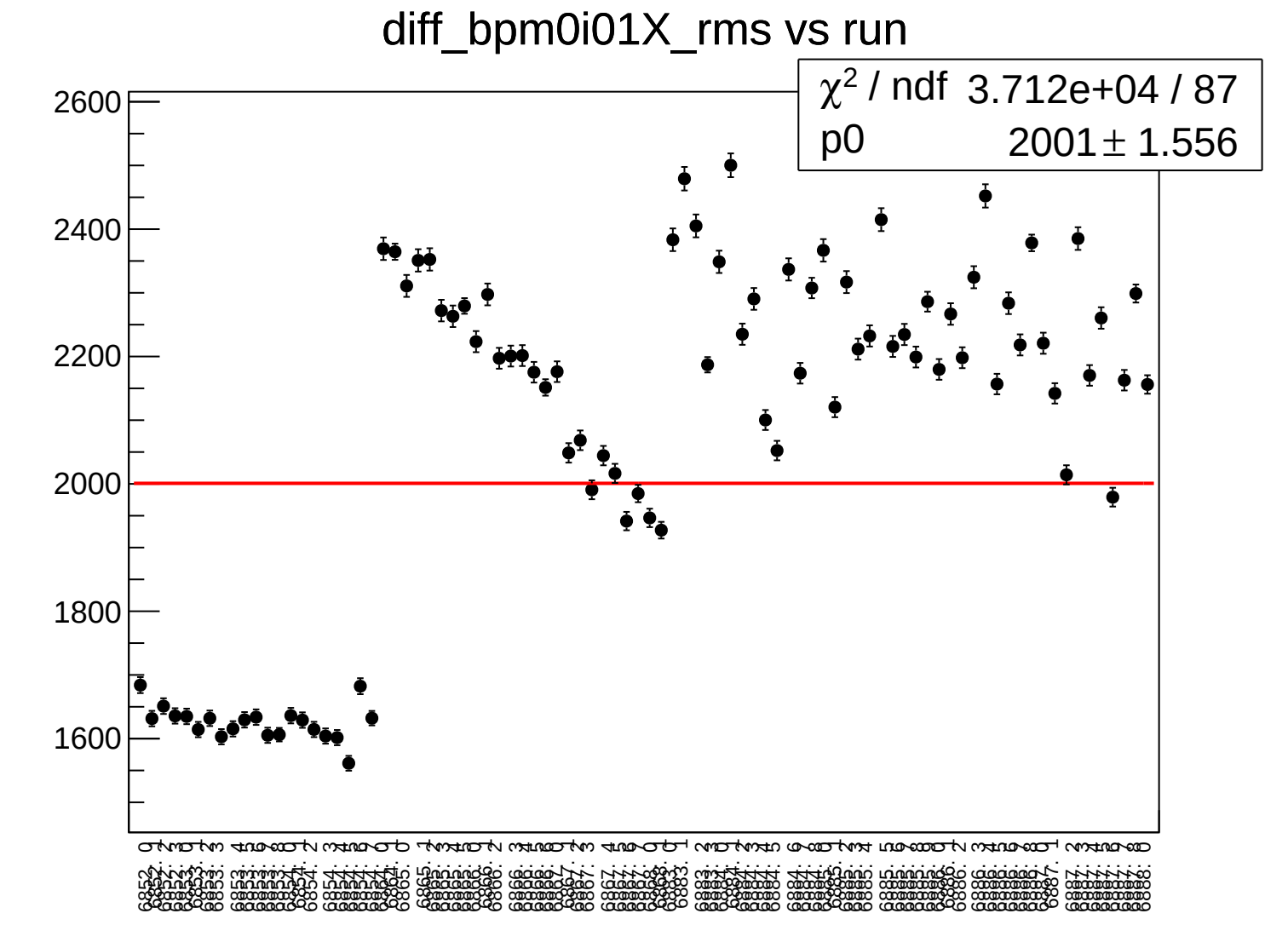

diff_cav4dY_mean vs run
χ^2 / ndf 77.77 / 87
p0 92.17 ± 215.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean 112.5
Std Dev 0
2
1
0
−1
−2

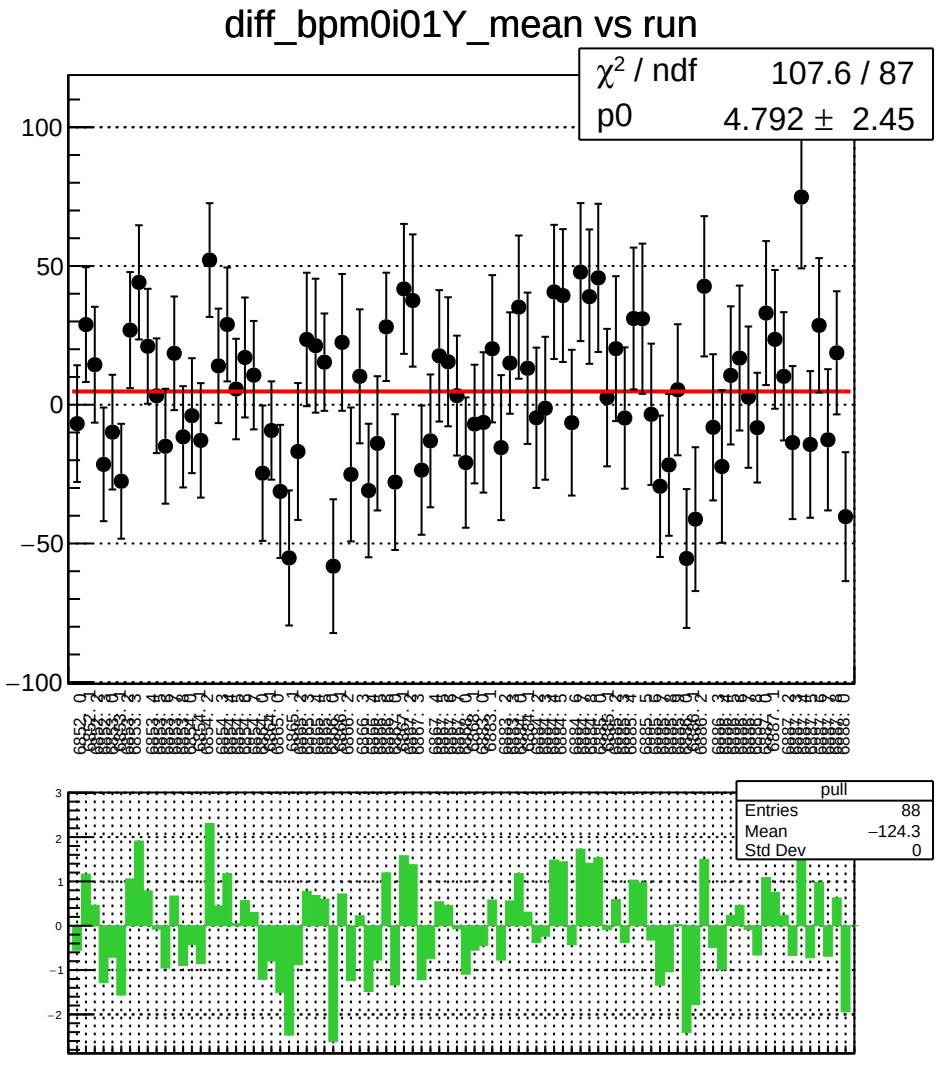

pull1D
Entries 88
Mean −0.0189
Std Dev 0.9399
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

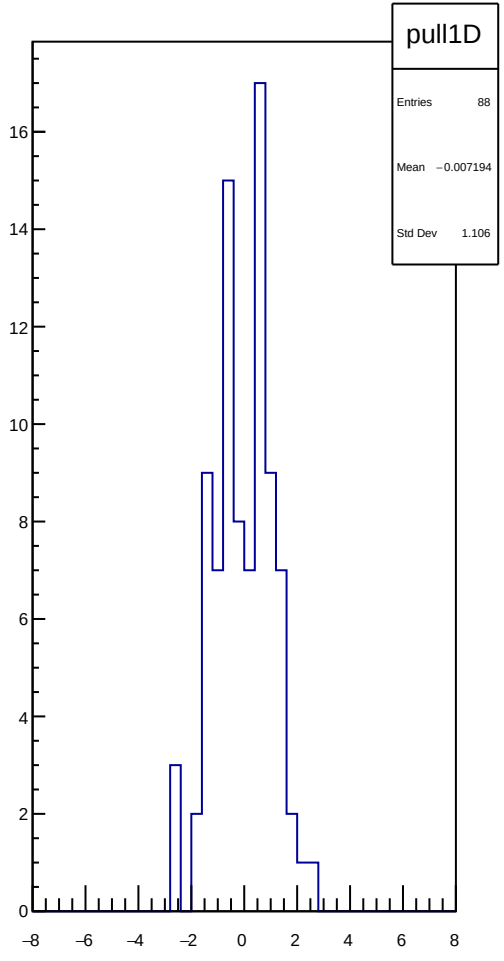

diff_cav4dY_rms vs run
×10^3
350
300
250
200
150
χ² / ndf 9.658e+04 / 87
p0 1.925e+05 ± 152.5

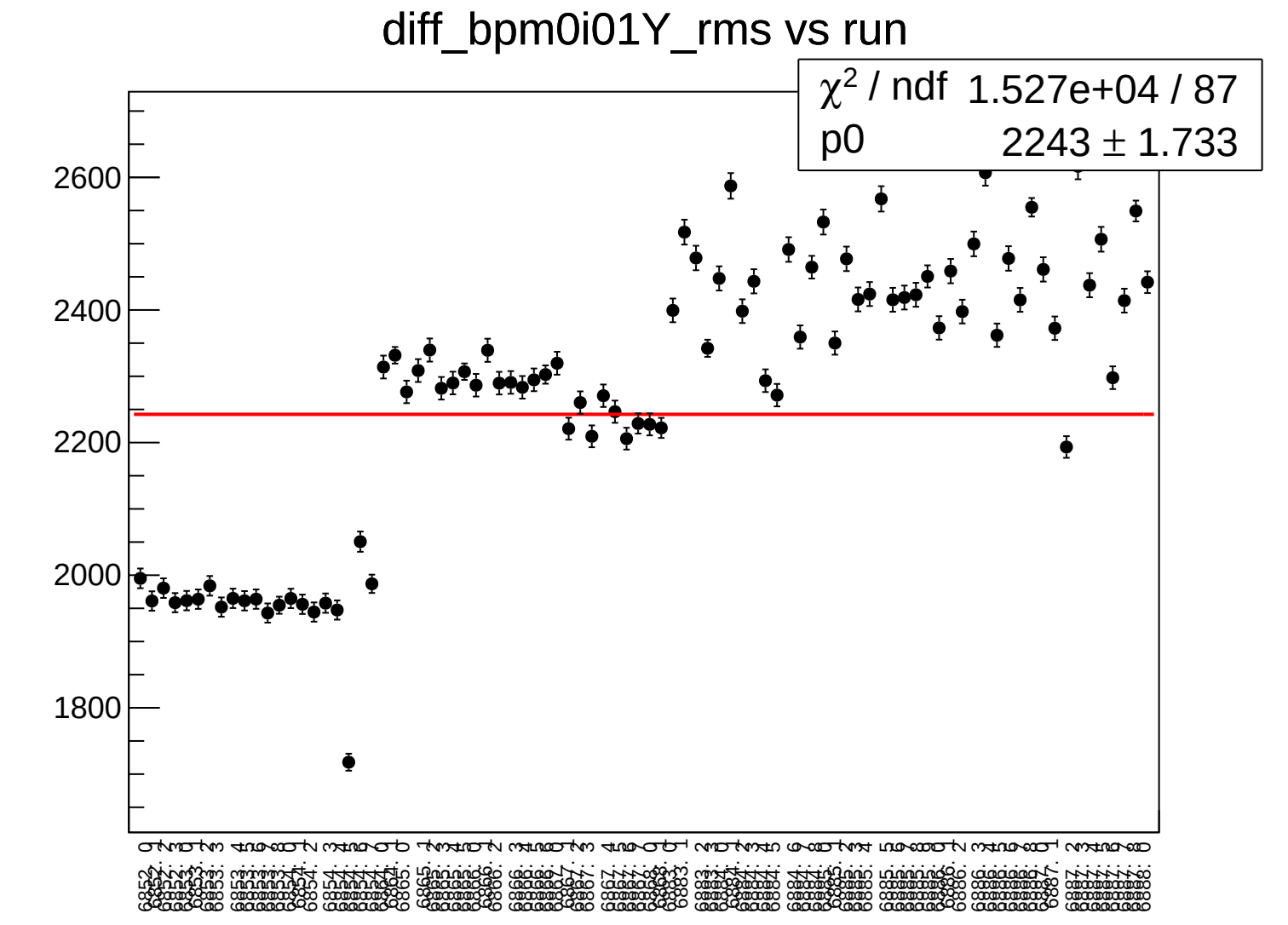

diff_bpm0i01X_mean vs run
χ² / ndf 114.3 / 87
p0 7.762 ± 2.2
pull
Entries 88
Mean −207.5
Std Dev 0

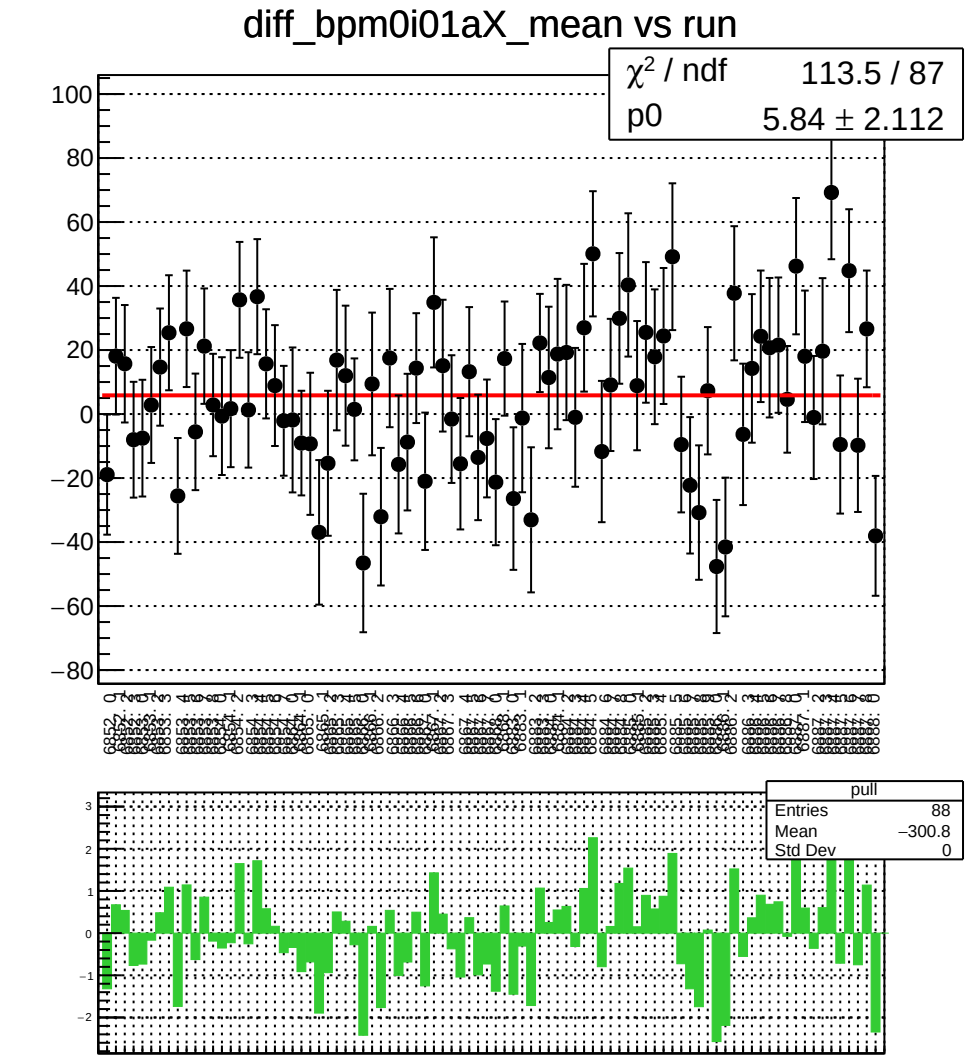

pull1D
Entries 88
Mean −0.01482
Std Dev 1.14

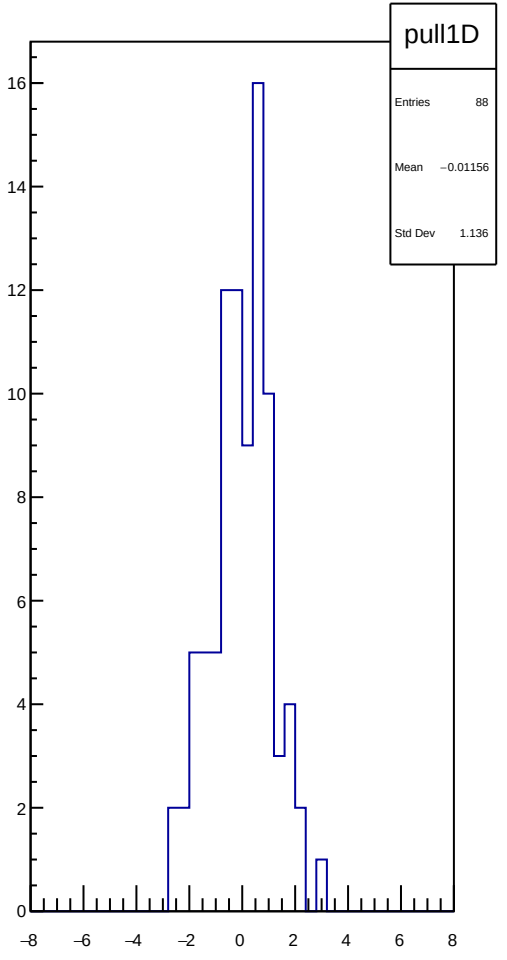

diff_bpm0i01X_rms vs run
χ^2 / ndf 3.712e+04 / 87
p0 2001 ± 1.556
2600
2400
2200
2000
1800
1600

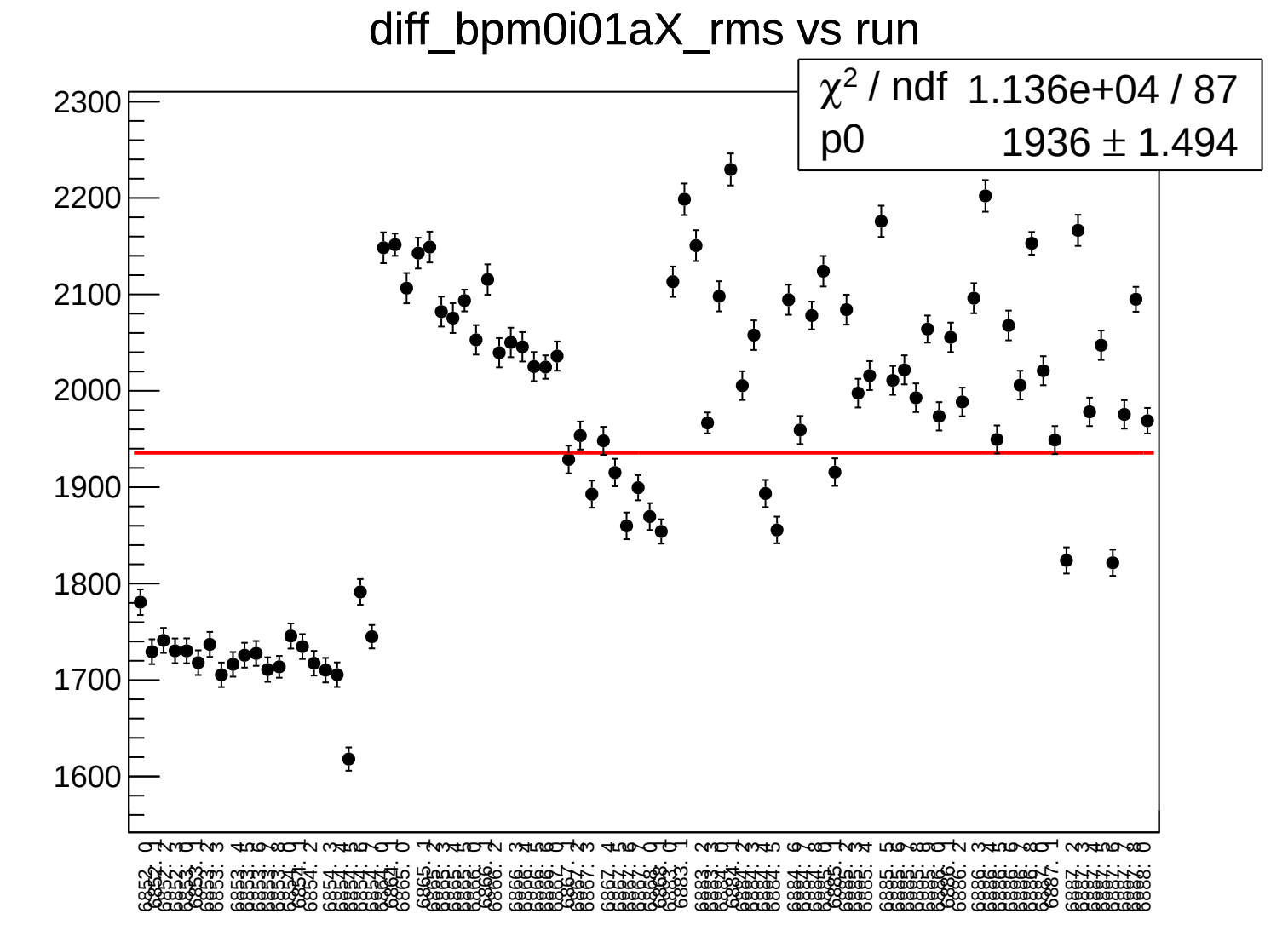

diff_bpm0i01Y_mean vs run
χ² / ndf 107.6 / 87
p0 4.792 ± 2.45
100
50
0
−50
−100
pull
Entries 88
Mean −124.3
Std Dev 0
3
2
1
0
−1
−2

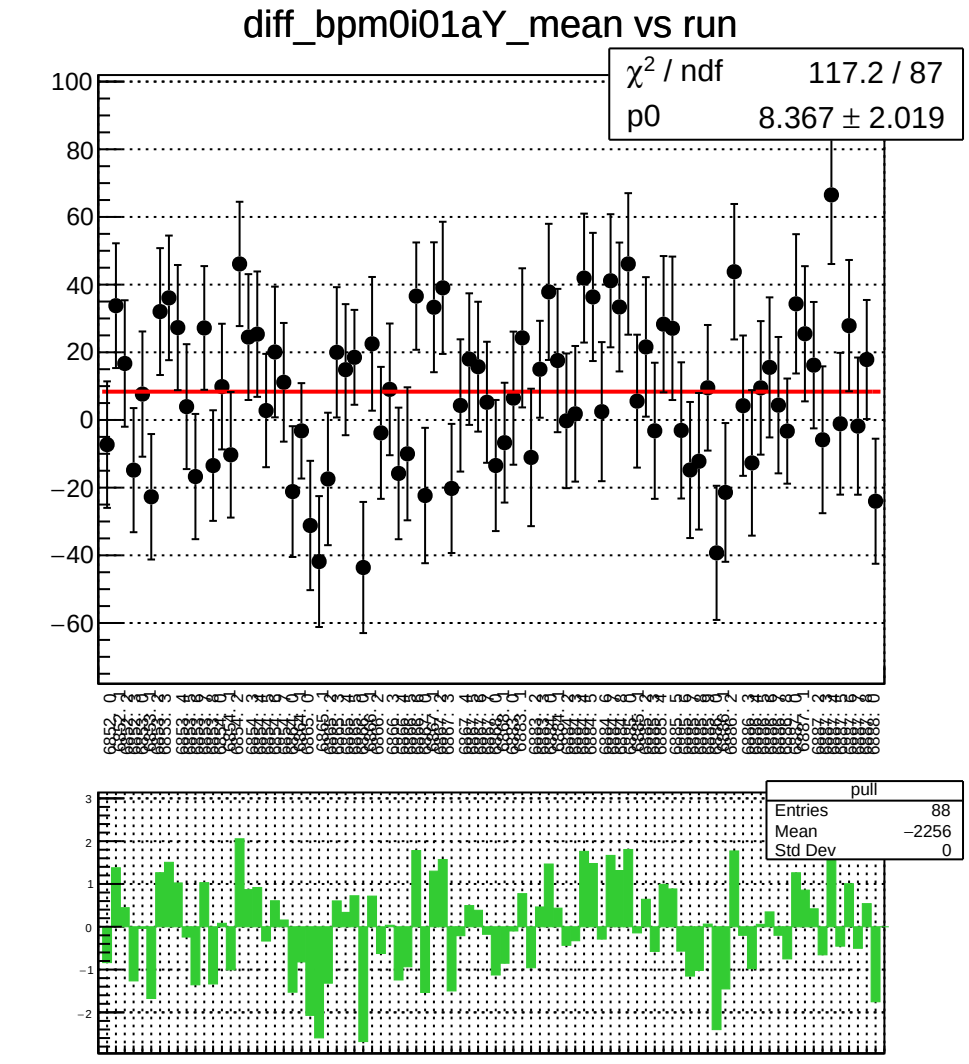

pull1D
Entries 88
Mean −0.007194
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

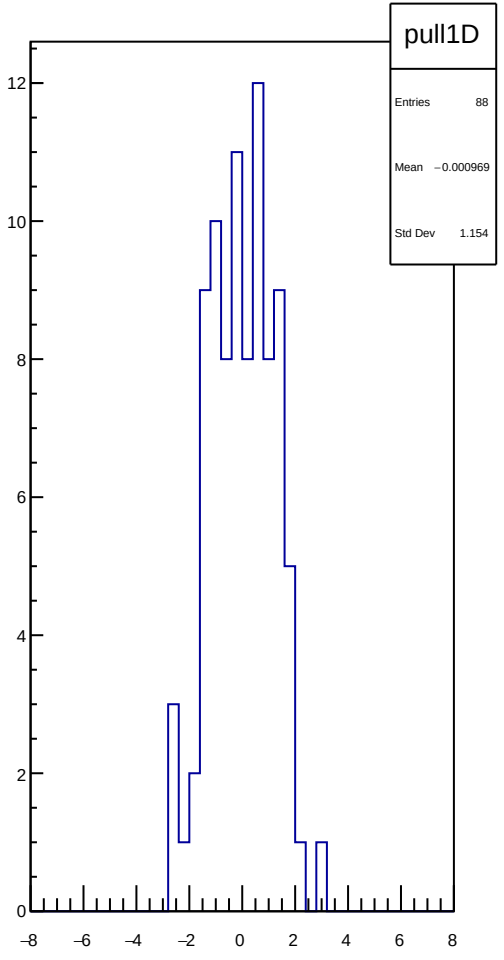

diff_bpm0i01Y_rms vs run
χ² / ndf 1.527e+04 / 87
p0 2243 ± 1.733
2600
2400
2200
2000
1800

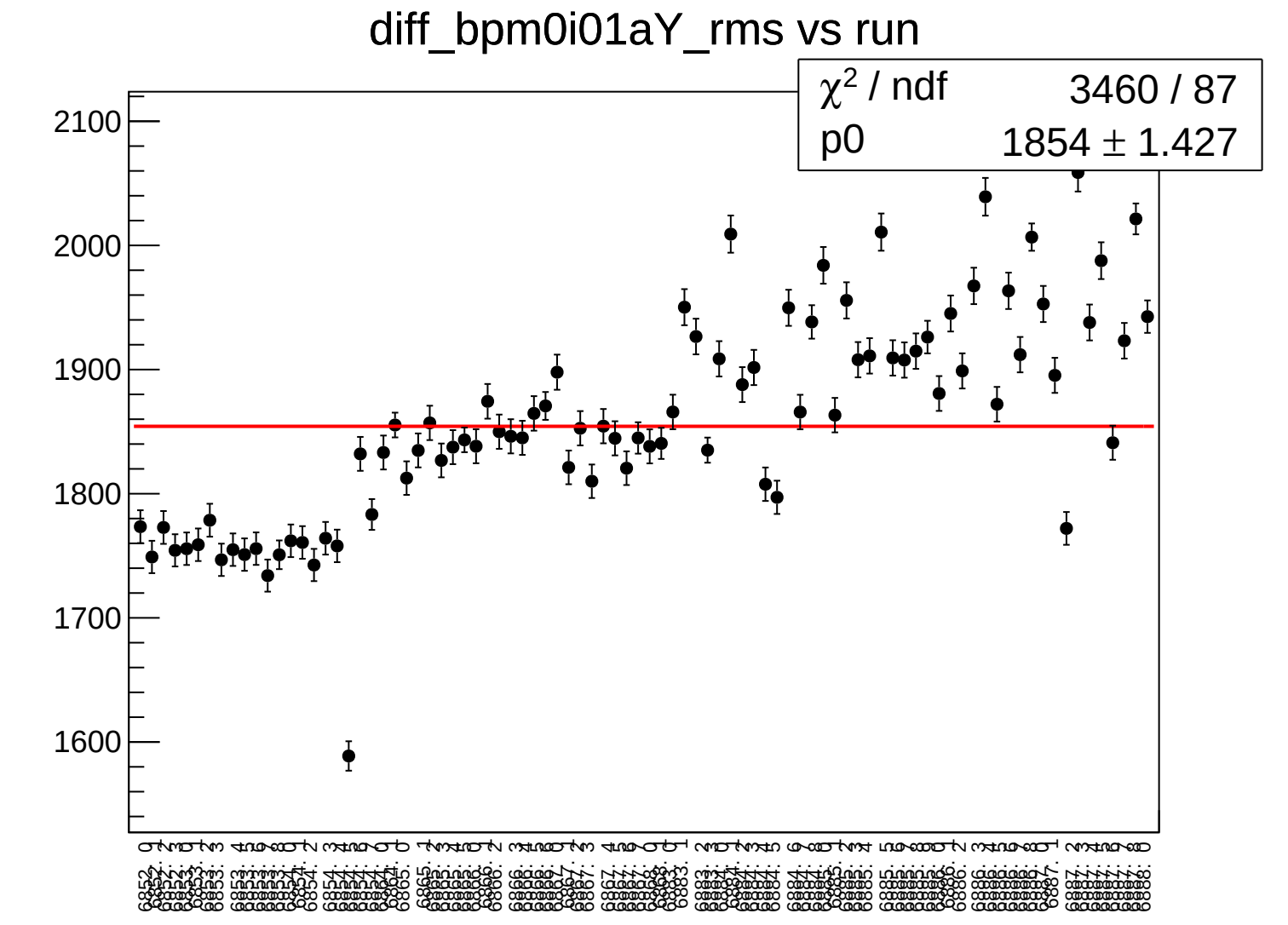

diff_bpm0i01aX_mean vs run
χ² / ndf 113.5 / 87
p0 5.84 ± 2.112
pull
Entries 88
Mean −300.8
Std Dev 0

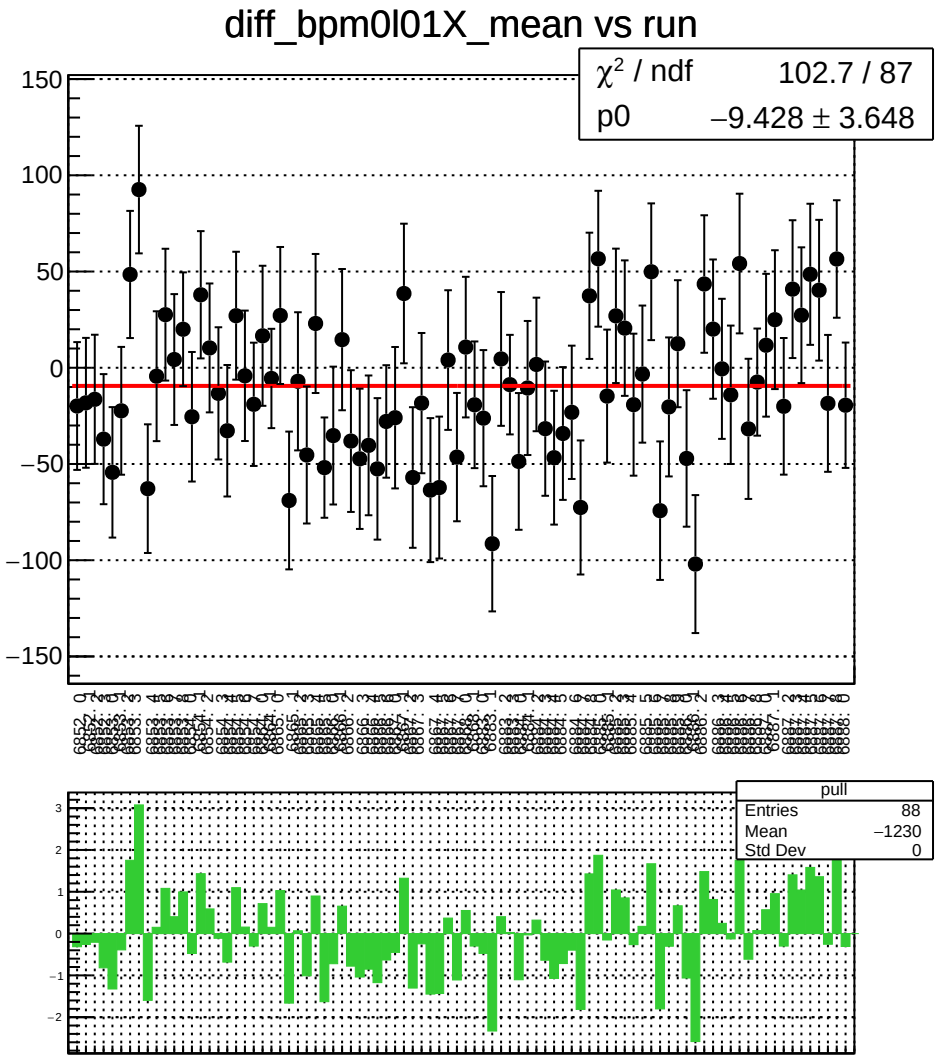

pull1D
Entries 88
Mean −0.01156
Std Dev 1.136

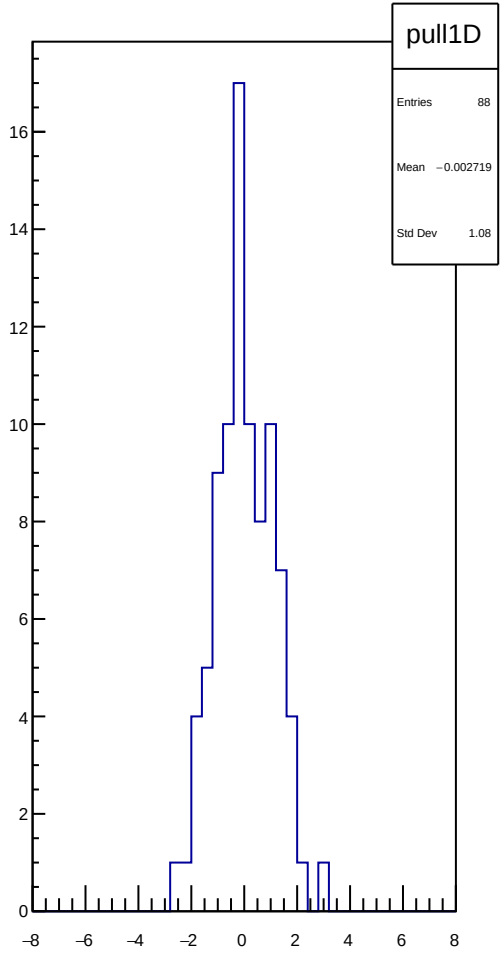

diff_bpm0i01aX_rms vs run
χ² / ndf 1.136e+04 / 87
p0 1936 ± 1.494
2300
2200
2100
2000
1900
1800
1700
1600

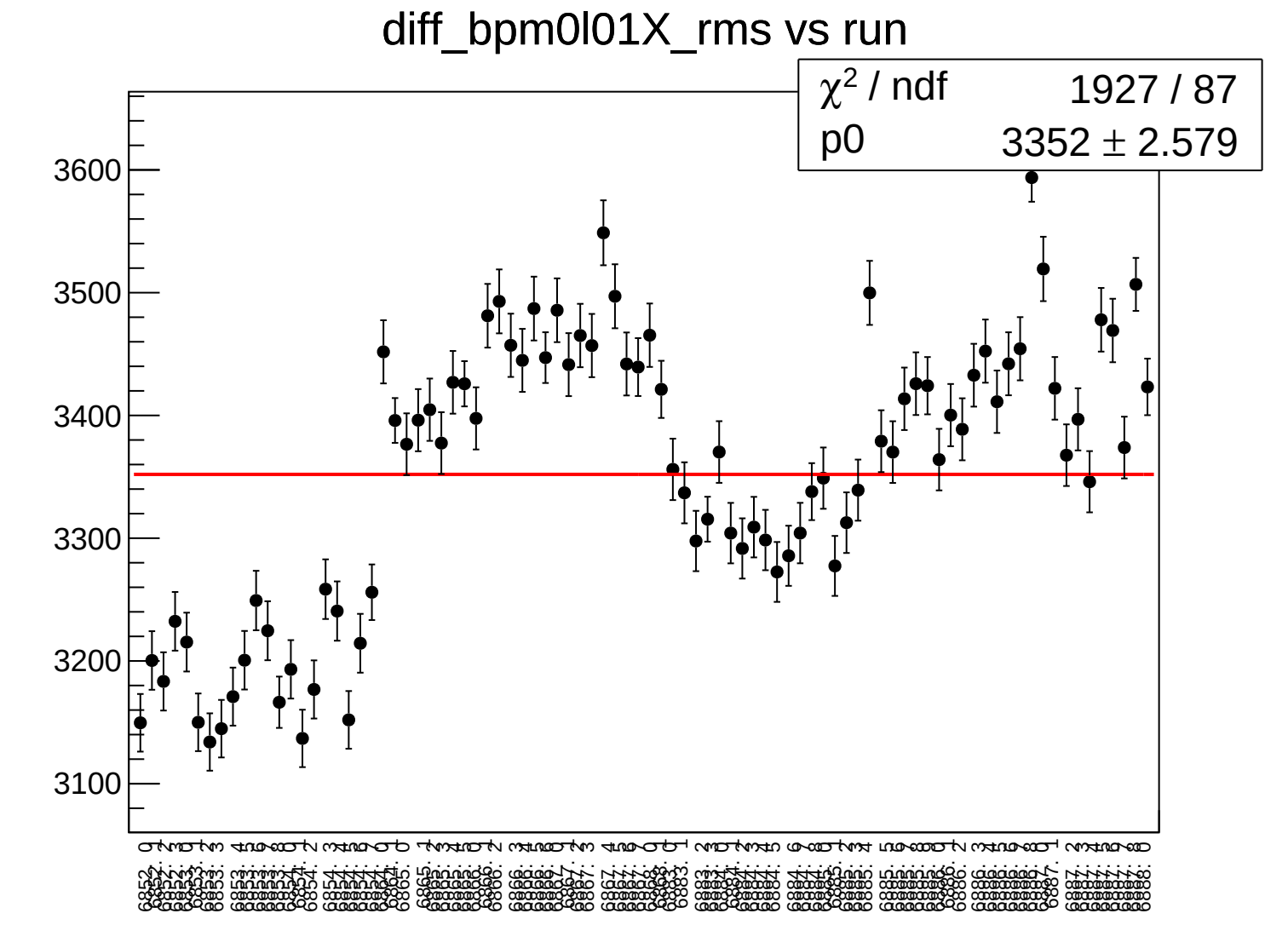

diff_bpm0i01aY_mean vs run
χ² / ndf 117.2 / 87
p0 8.367 ± 2.019
pull
Entries 88
Mean −2256
Std Dev 0

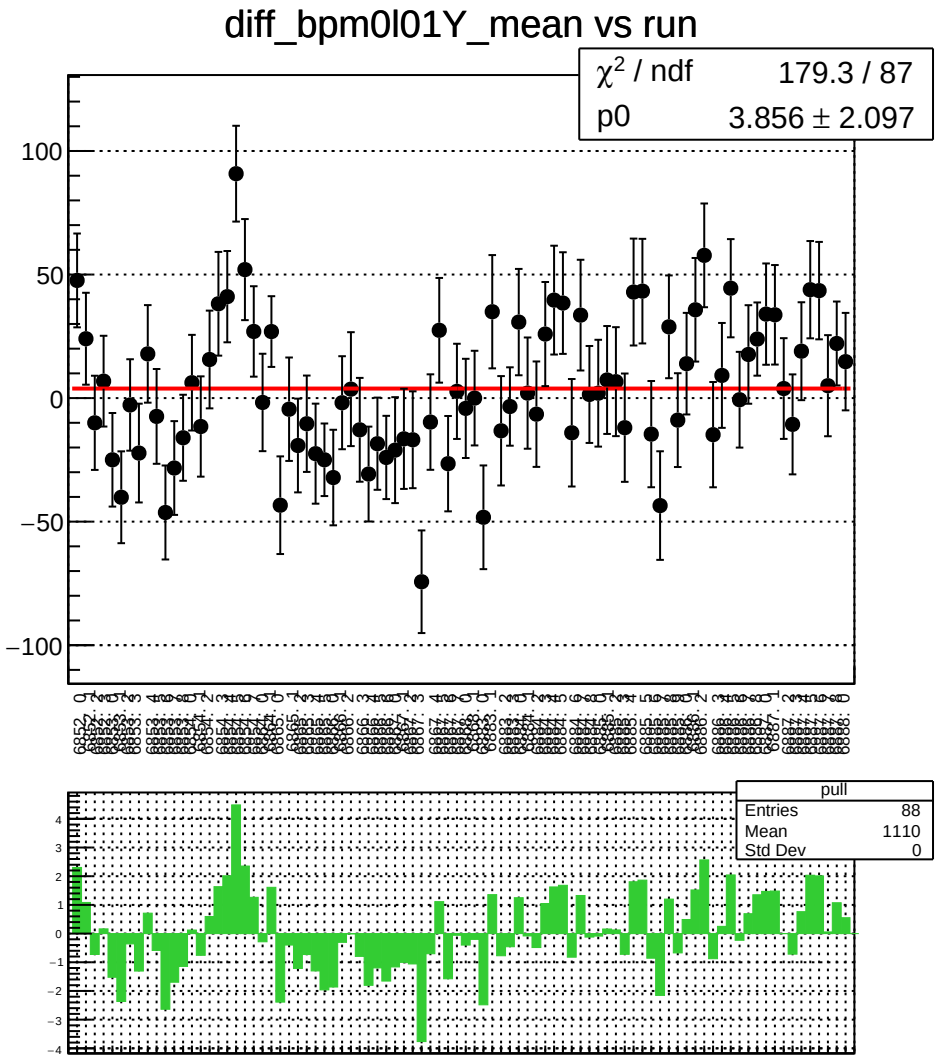

pull1D
Entries 88
Mean −0.000969
Std Dev 1.154

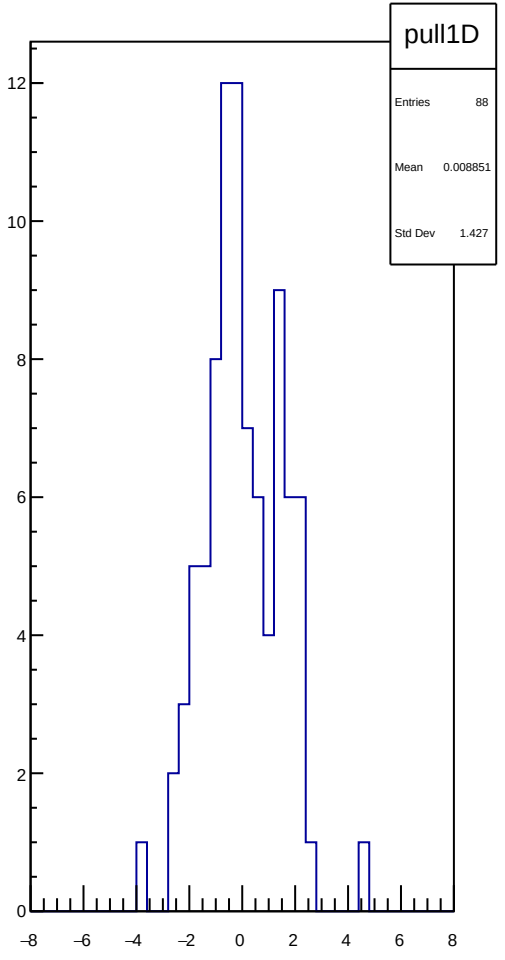

diff_bpm0i01aY_rms vs run
χ² / ndf 3460 / 87
p0 1854 ± 1.427
2100
2000
1900
1800
1700
1600

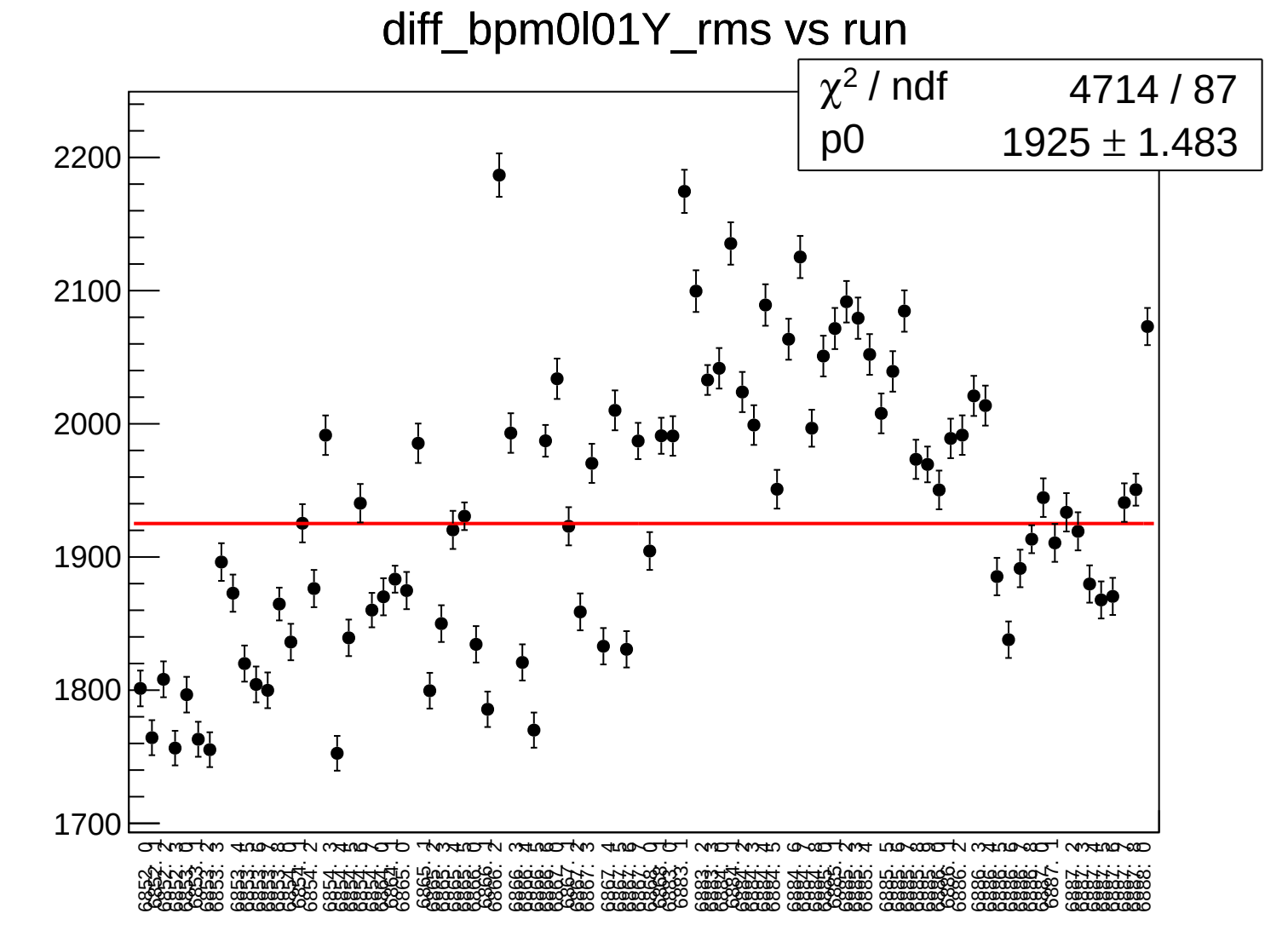

diff_bpm0l01X_mean vs run
χ² / ndf 102.7 / 87
p0 −9.428 ± 3.648
150
100
50
0
−50
−100
−150
pull
Entries 88
Mean −1230
Std Dev 0
3
2
1
0
−1
−2

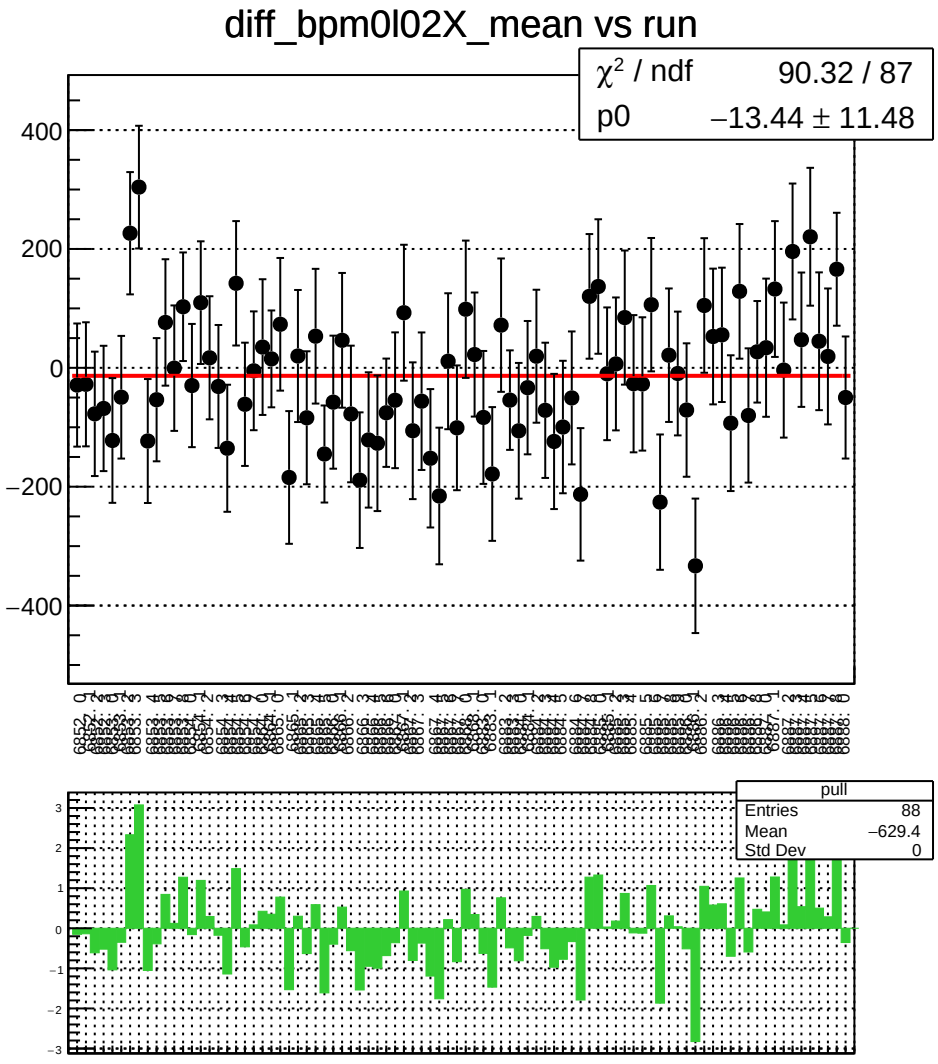

pull1D
Entries 88
Mean −0.002719
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

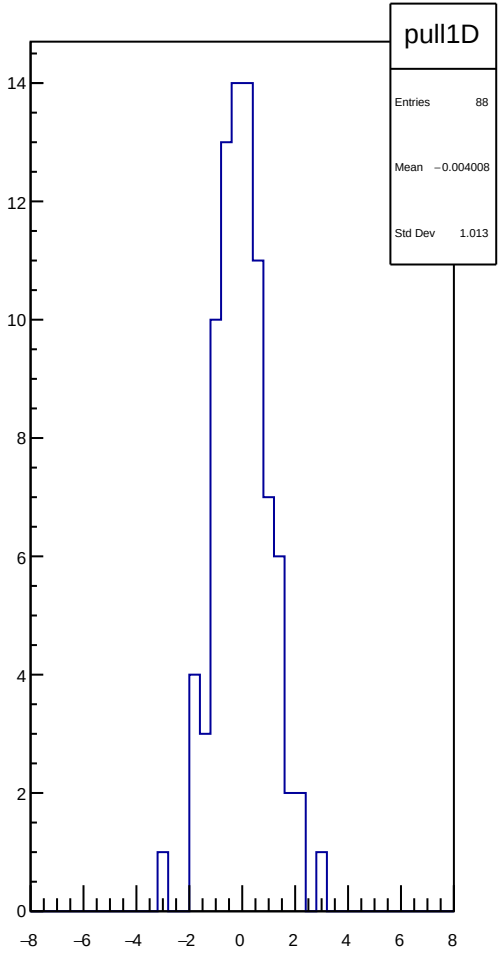

diff_bpm0l01X_rms vs run
χ² / ndf 1927 / 87
p0 3352 ± 2.579
3600
3500
3400
3300
3200
3100

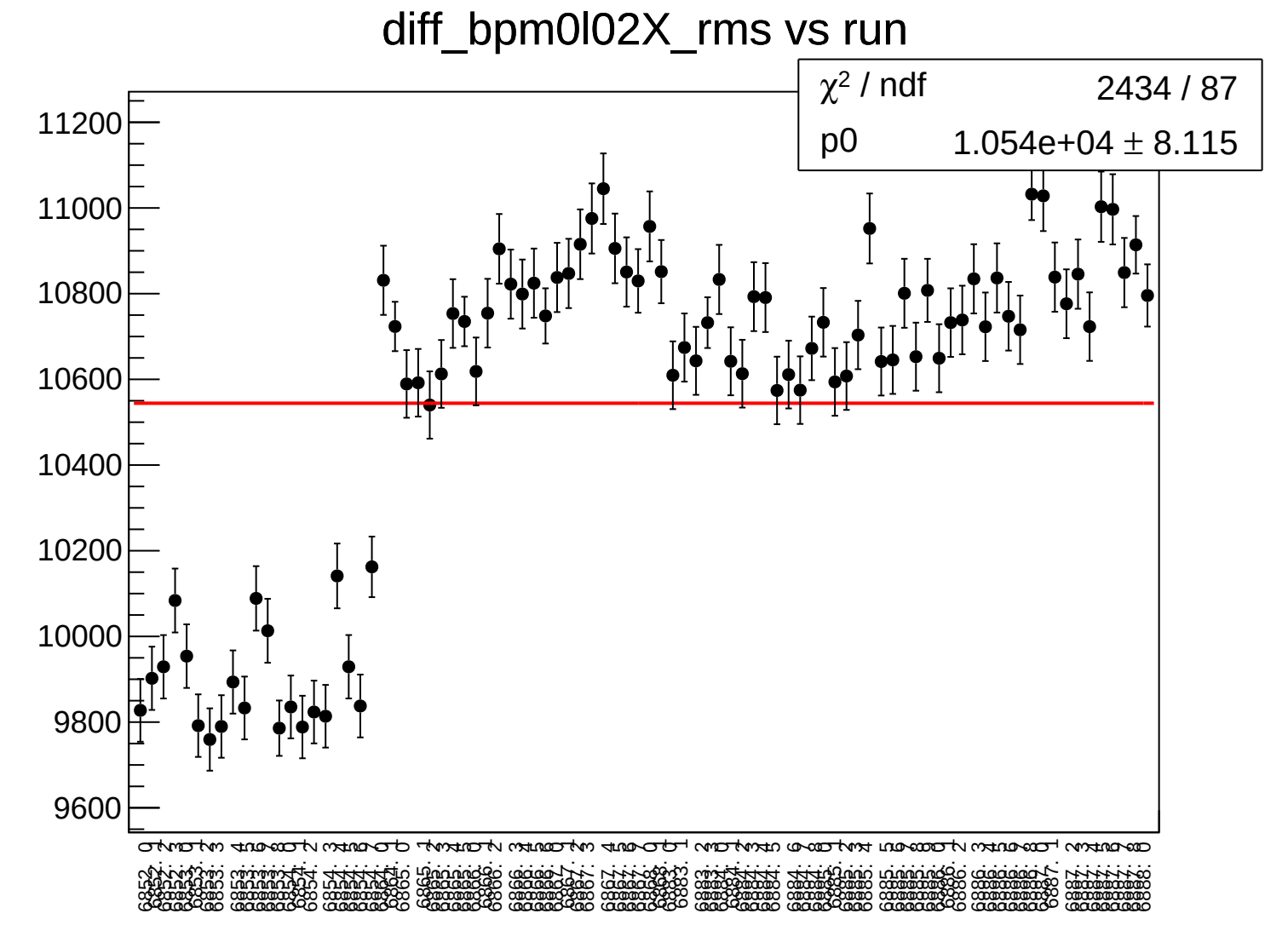

diff_bpm0l01Y_mean vs run
χ² / ndf 179.3 / 87
p0 3.856 ± 2.097
100
50
0
−50
−100
pull
Entries 88
Mean 1110
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

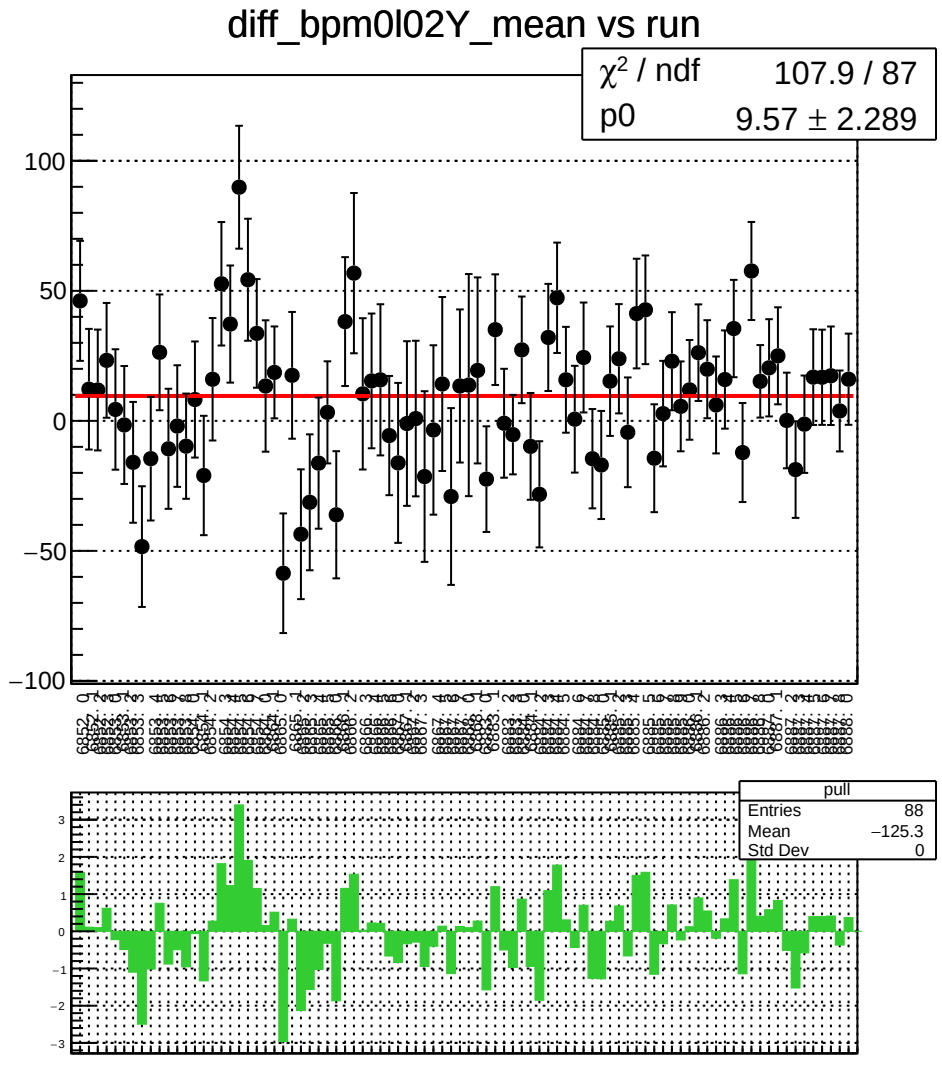

pull1D
Entries 88
Mean 0.008851
Std Dev 1.427
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

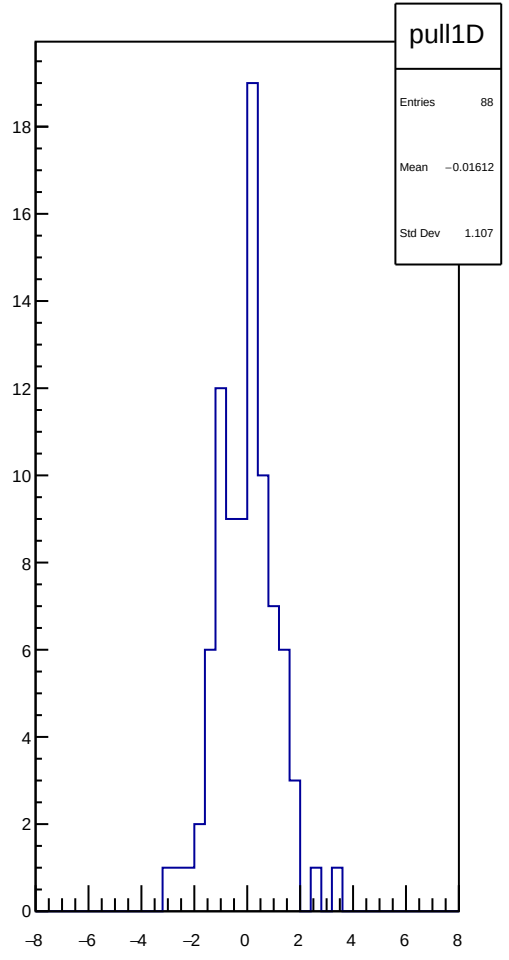

diff_bpm0l01Y_rms vs run
χ² / ndf 4714 / 87
p0 1925 ± 1.483
2200
2100
2000
1900
1800
1700

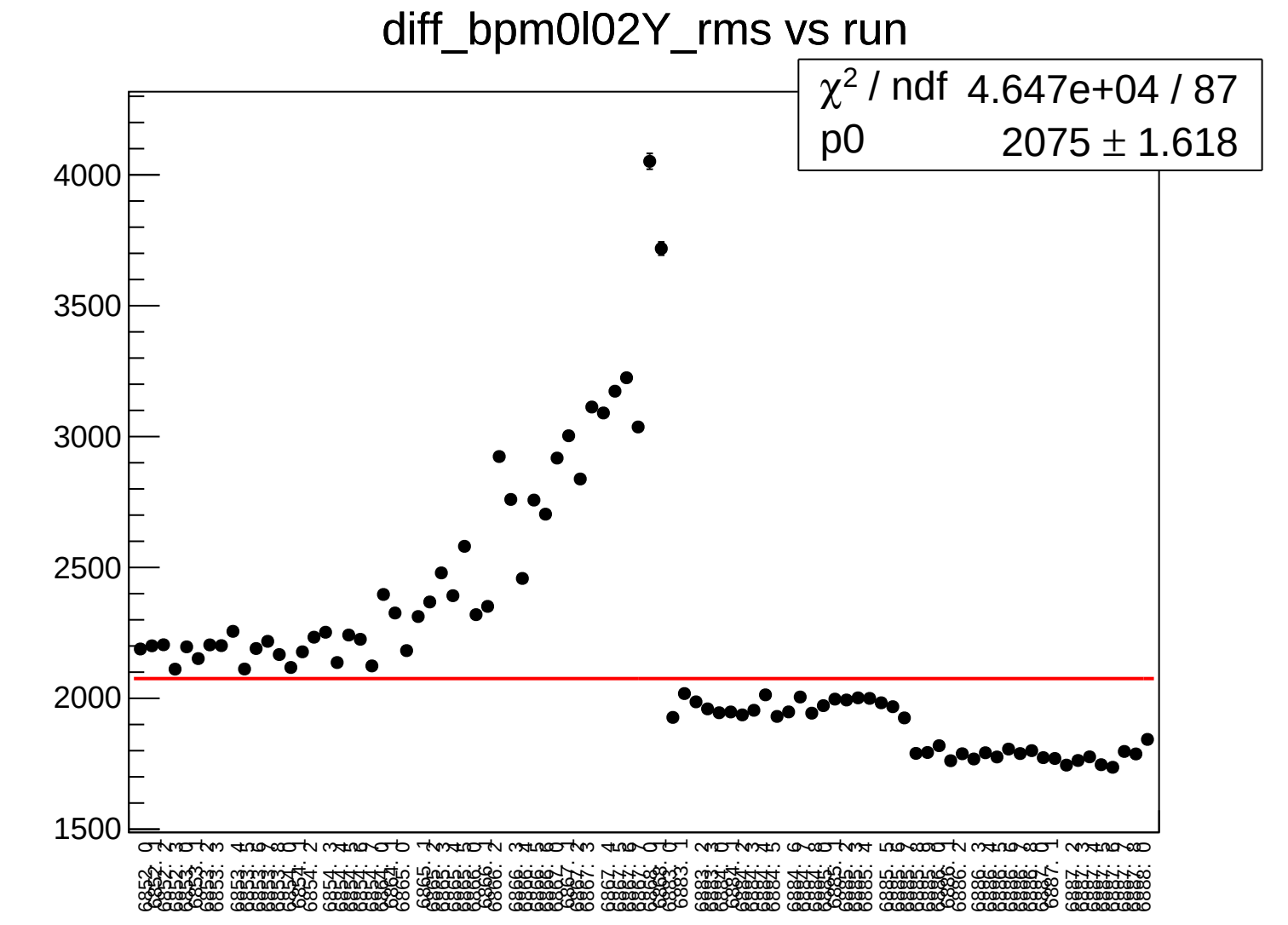

diff_bpm0l02X_mean vs run
χ² / ndf 90.32 / 87
p0 −13.44 ± 11.48
400
200
0
−200
−400
pull
Entries 88
Mean −629.4
Std Dev 0
3
2
1
0
−1
−2
−3

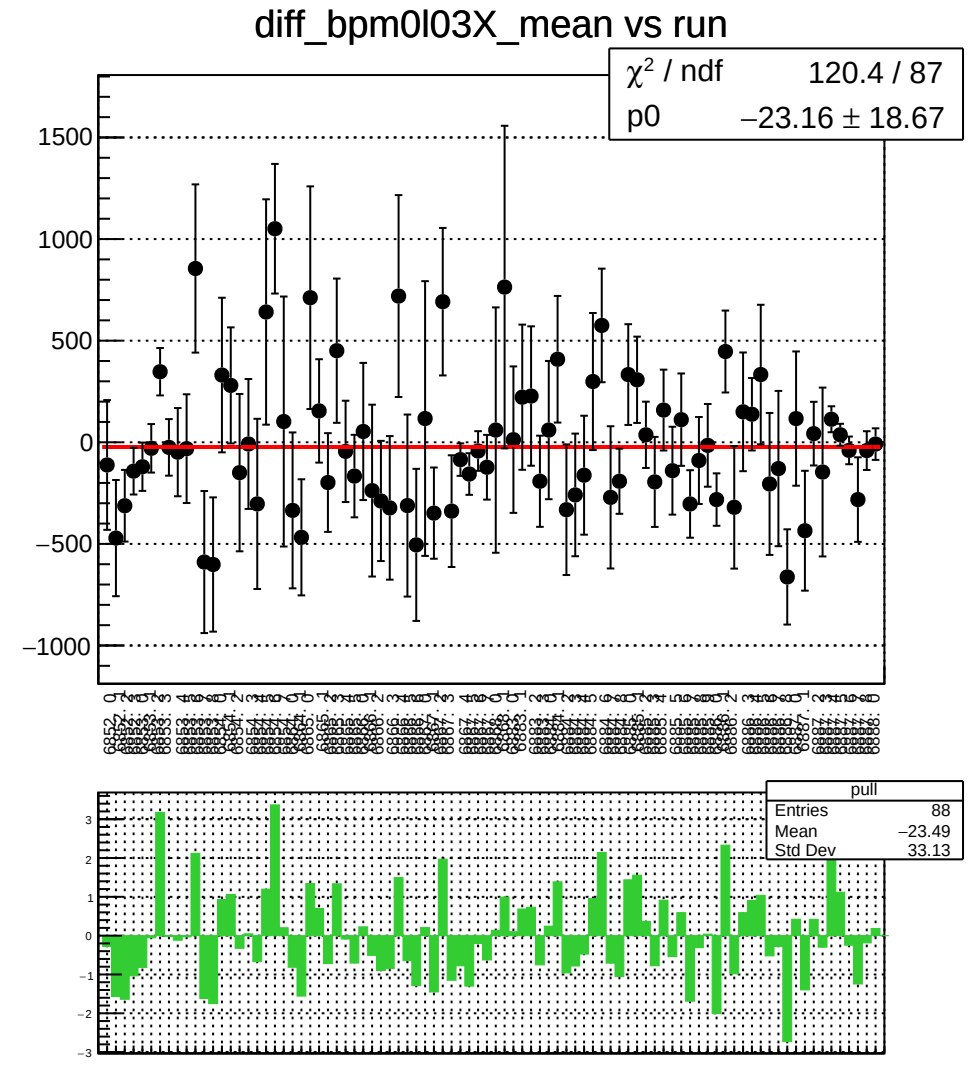

pull1D
Entries 88
Mean −0.004008
Std Dev 1.013
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

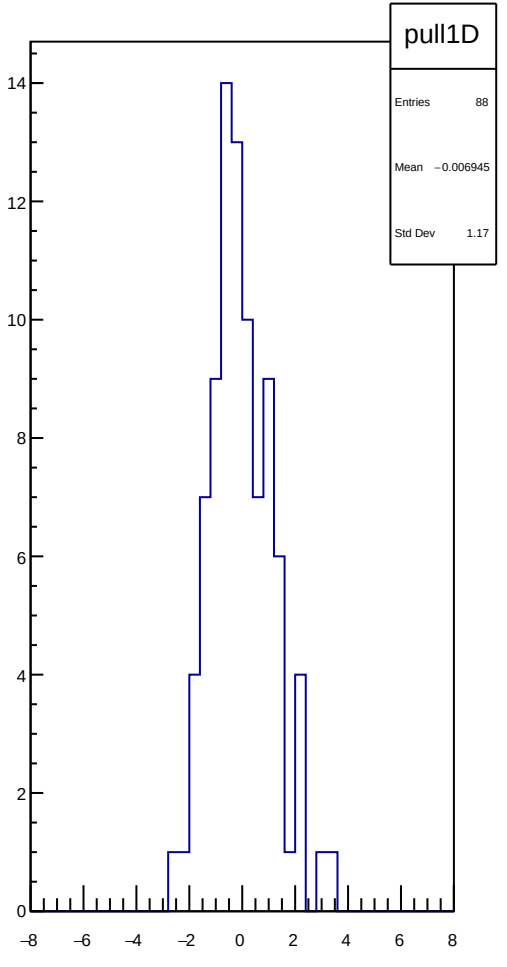

diff_bpm0l02X_rms vs run
χ² / ndf 2434 / 87
p0 1.054e+04 ± 8.115
11200
11000
10800
10600
10400
10200
10000
9800
9600


diff_bpm0l02Y_mean vs run
χ² / ndf 107.9 / 87
p0 9.57 ± 2.289
100
50
0
−50
−100
pull
Entries 88
Mean −125.3
Std Dev 0
3
2
1
0
−1
−2
−3

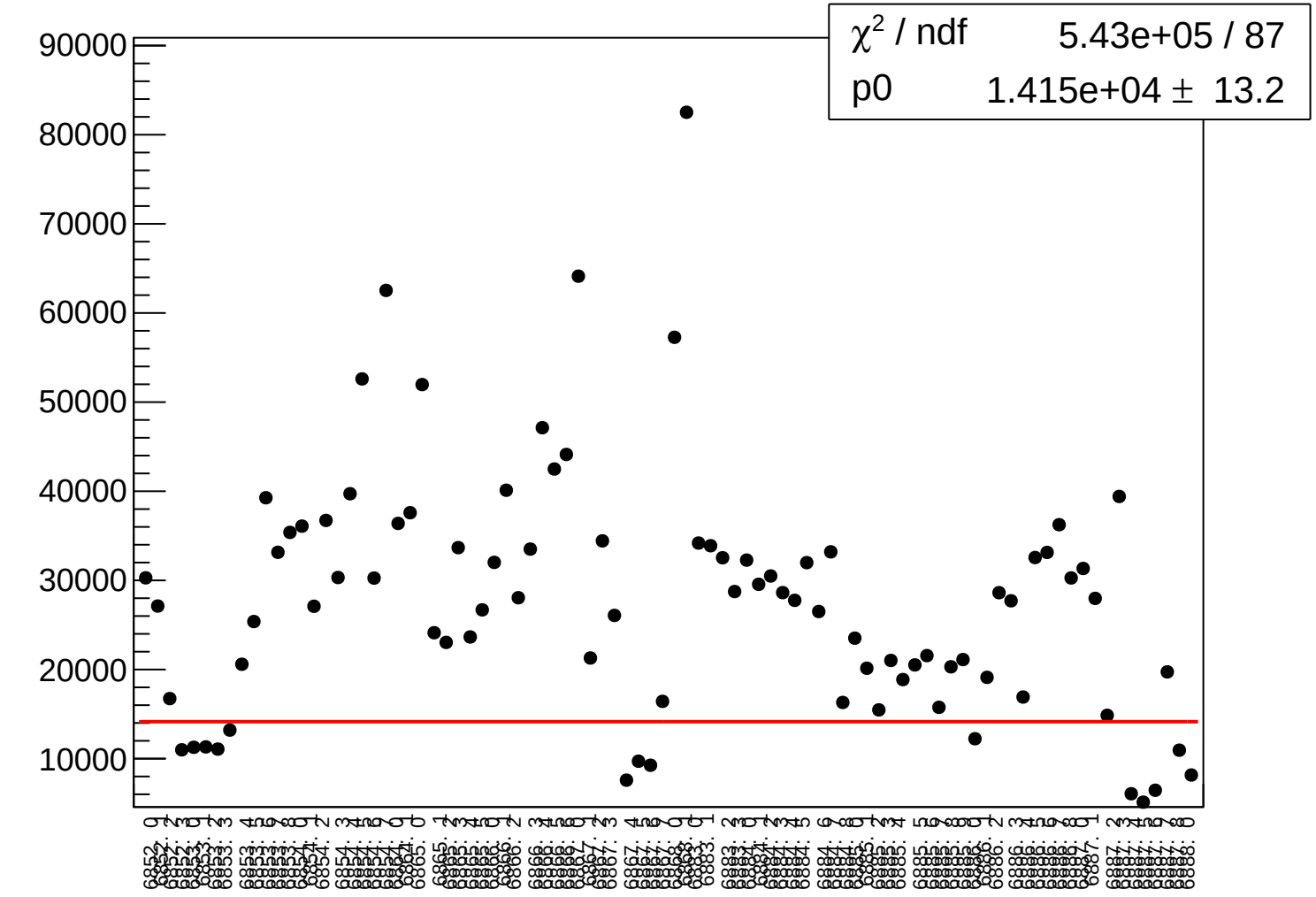

pull1D
Entries 88
Mean −0.01612
Std Dev 1.107
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

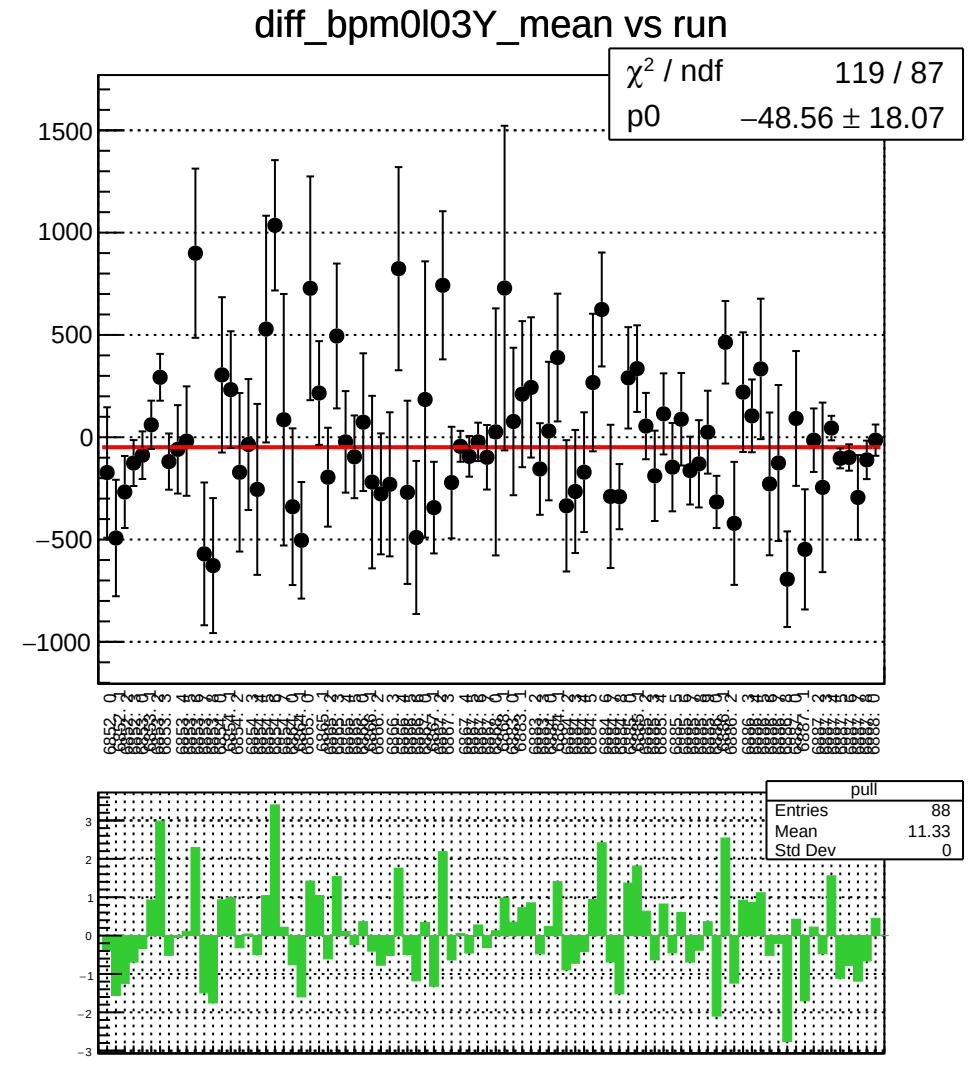

diff_bpm0l02Y_rms vs run
χ² / ndf 4.647e+04 / 87
p0 2075 ± 1.618
4000
3500
3000
2500
2000
1500

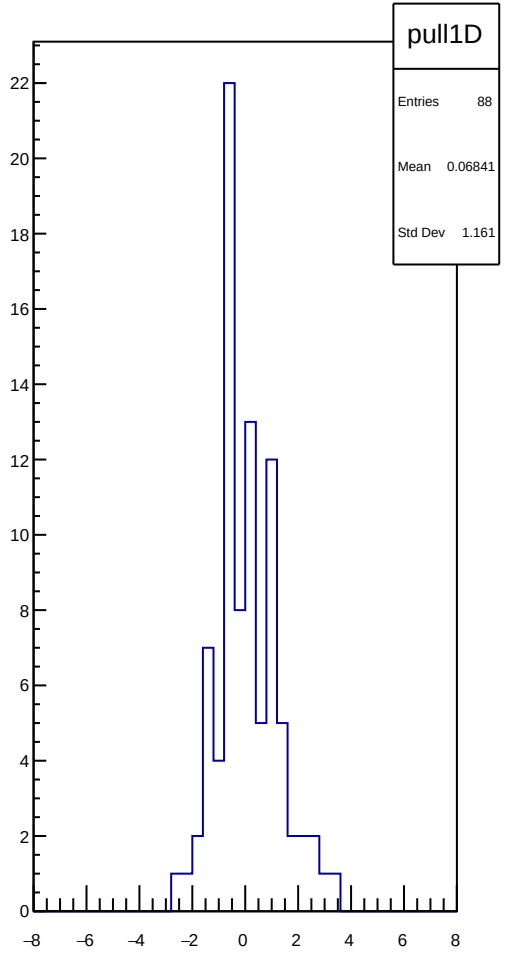

diff_bpm0l03X_mean vs run
χ² / ndf 120.4 / 87
p0 −23.16 ± 18.67
1500
1000
500
0
−500
−1000
pull
Entries 88
Mean −23.49
Std Dev 33.13
3
2
1
0
−1
−2
−3

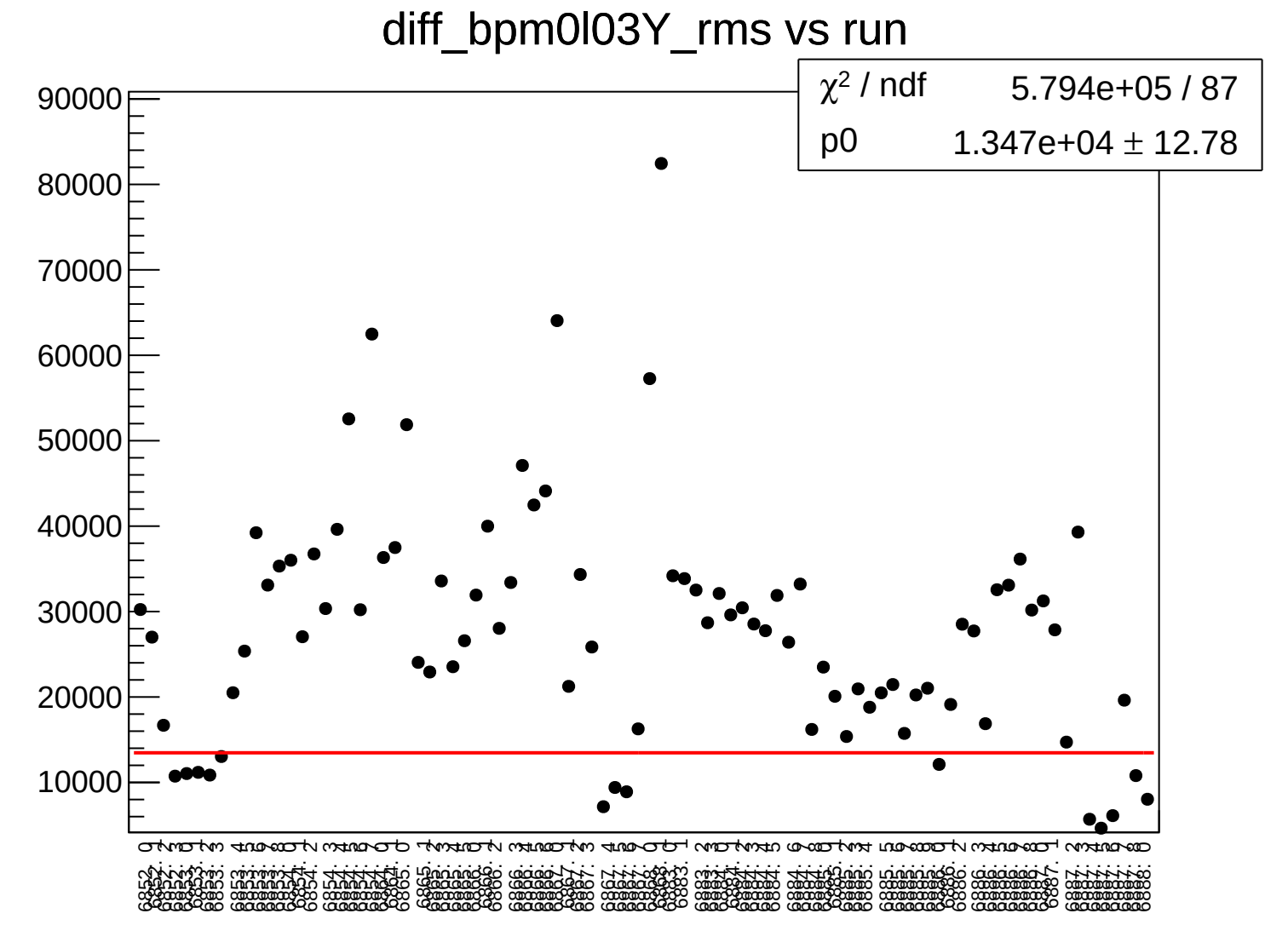

pull1D
Entries 88
Mean −0.006945
Std Dev 1.17
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

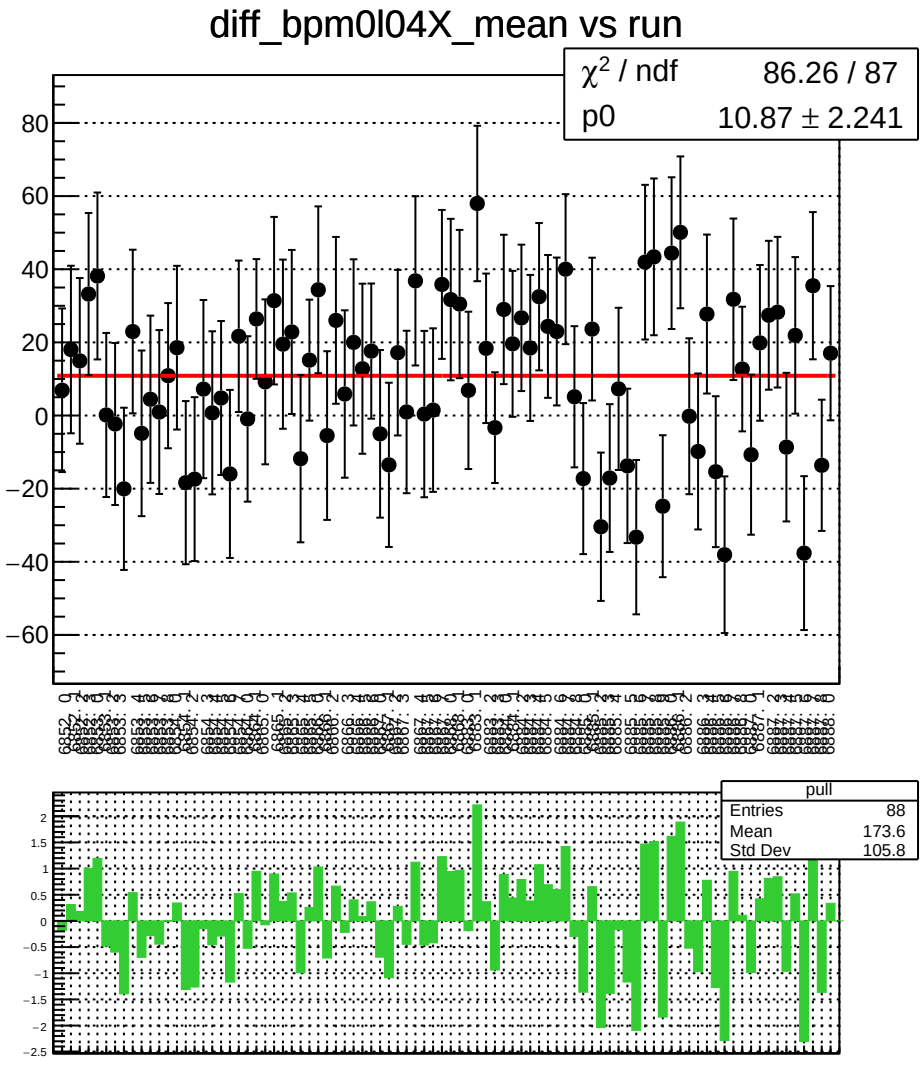
diff_bpm0l03X_rms vs run

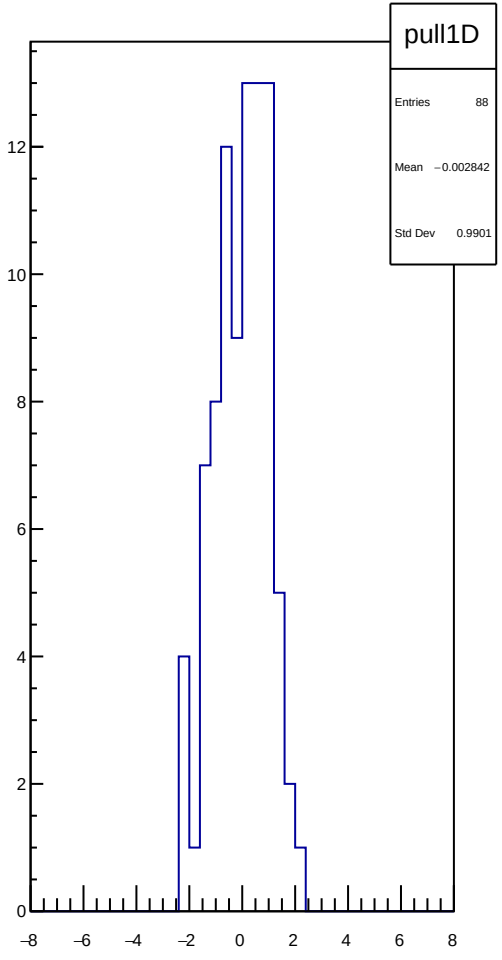


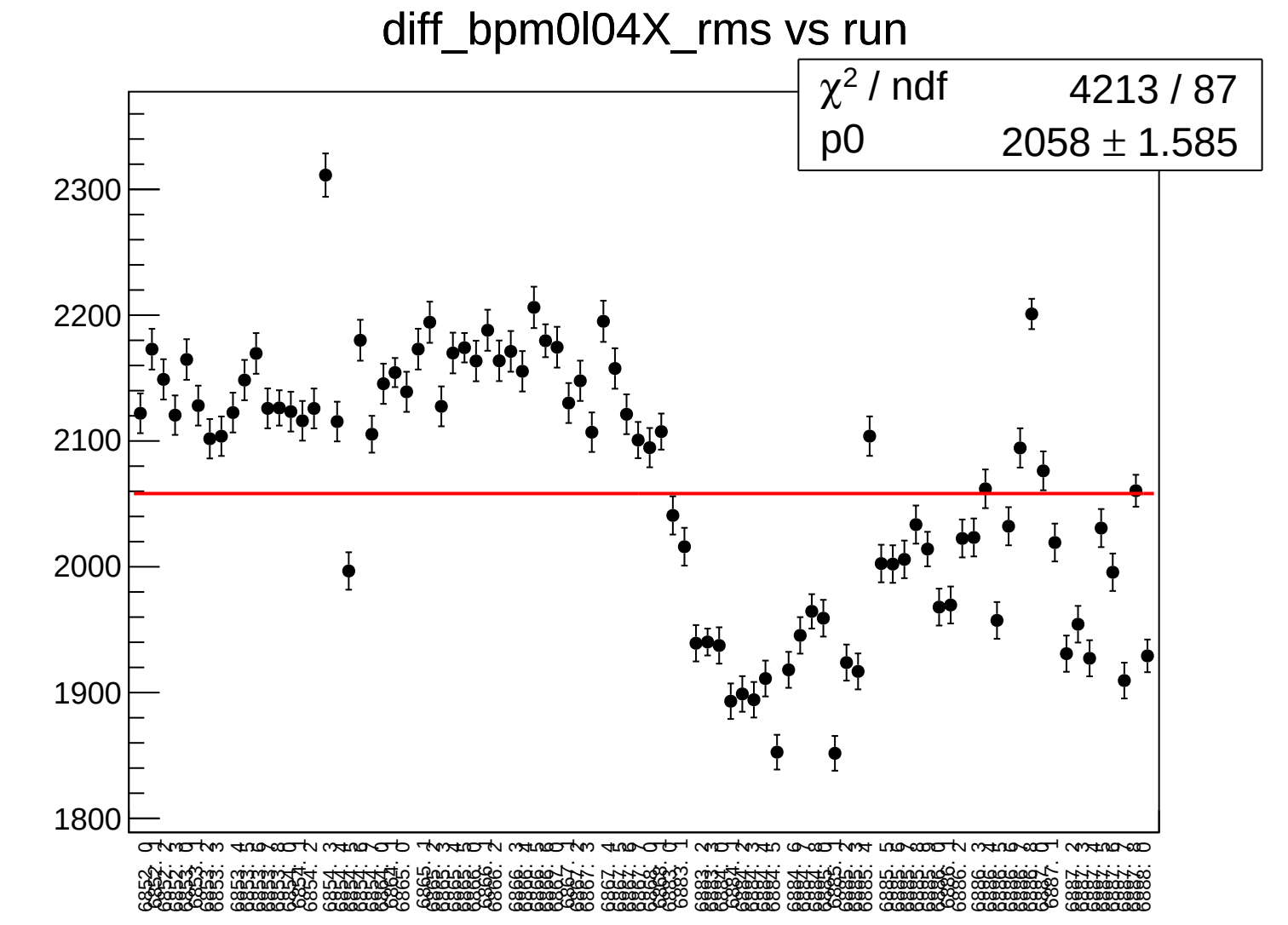

diff_bpm0l03Y_mean vs run
χ² / ndf 119 / 87
p0 −48.56 ± 18.07
pull
Entries 88
Mean 11.33
Std Dev 0

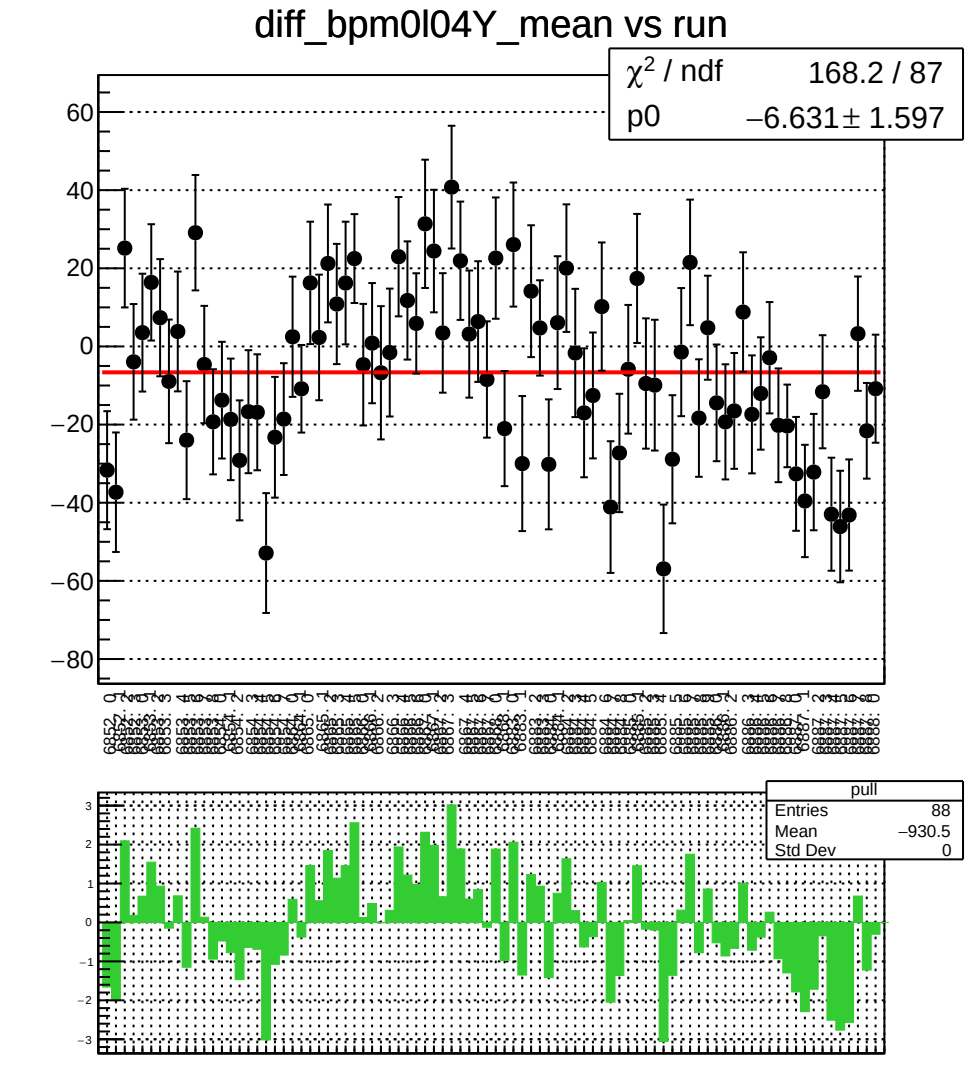

pull1D
Entries 88
Mean 0.06841
Std Dev 1.161

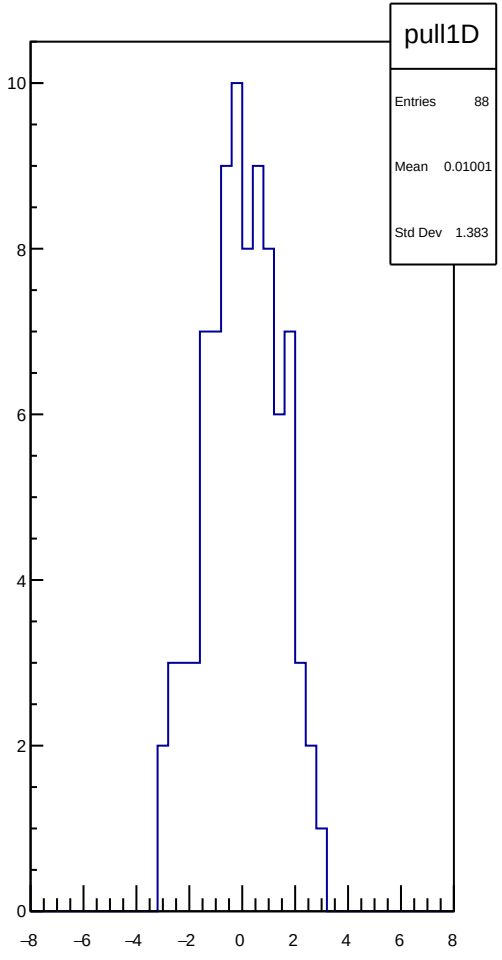

diff_bpm0l03Y_rms vs run
χ² / ndf 5.794e+05 / 87
p0 1.347e+04 ± 12.78
90000
80000
70000
60000
50000
40000
30000
20000
10000

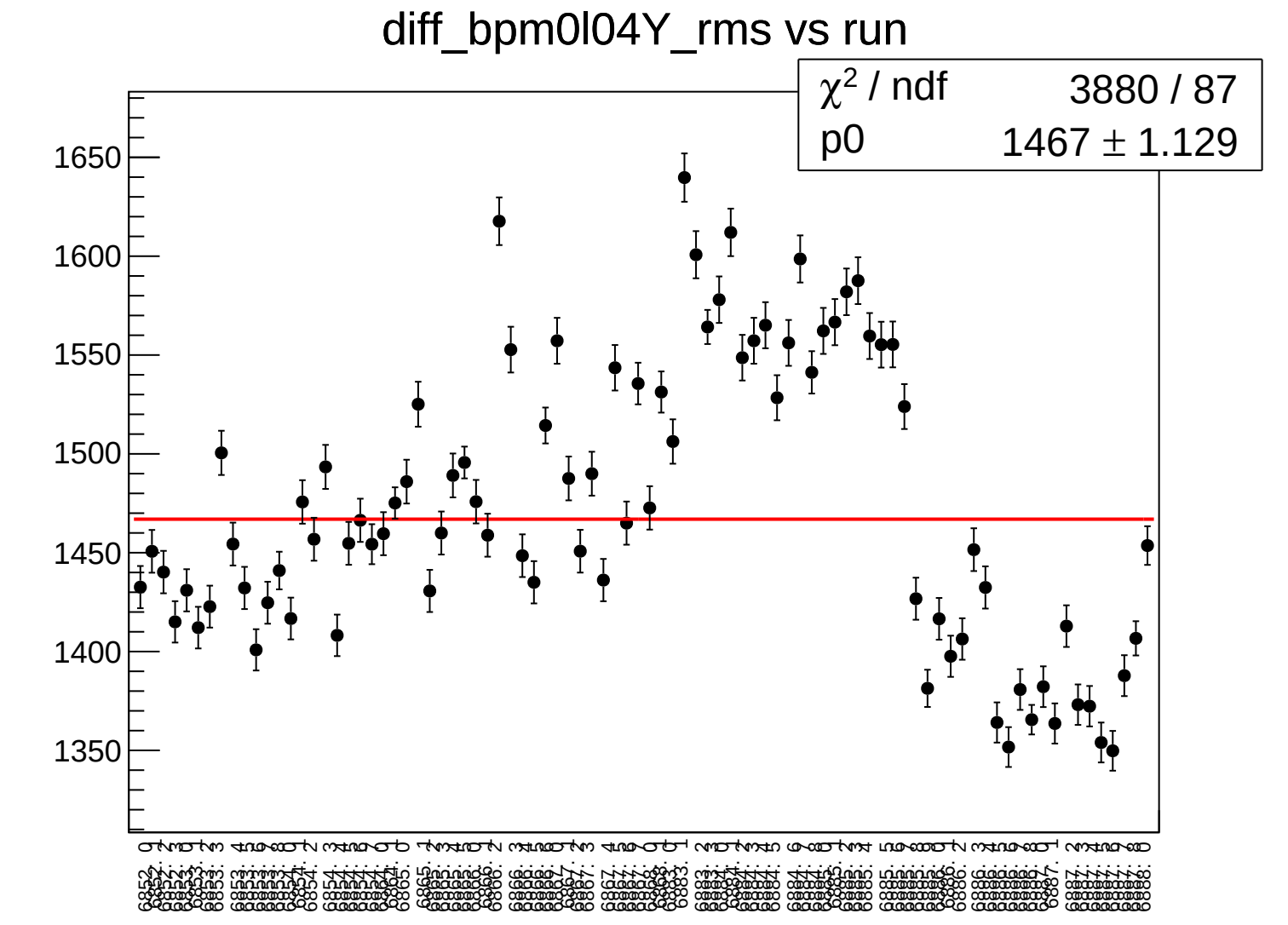

diff_bpm0l04X_mean vs run
χ² / ndf 86.26 / 87
p0 10.87 ± 2.241
pull
Entries 88
Mean 173.6
Std Dev 105.8

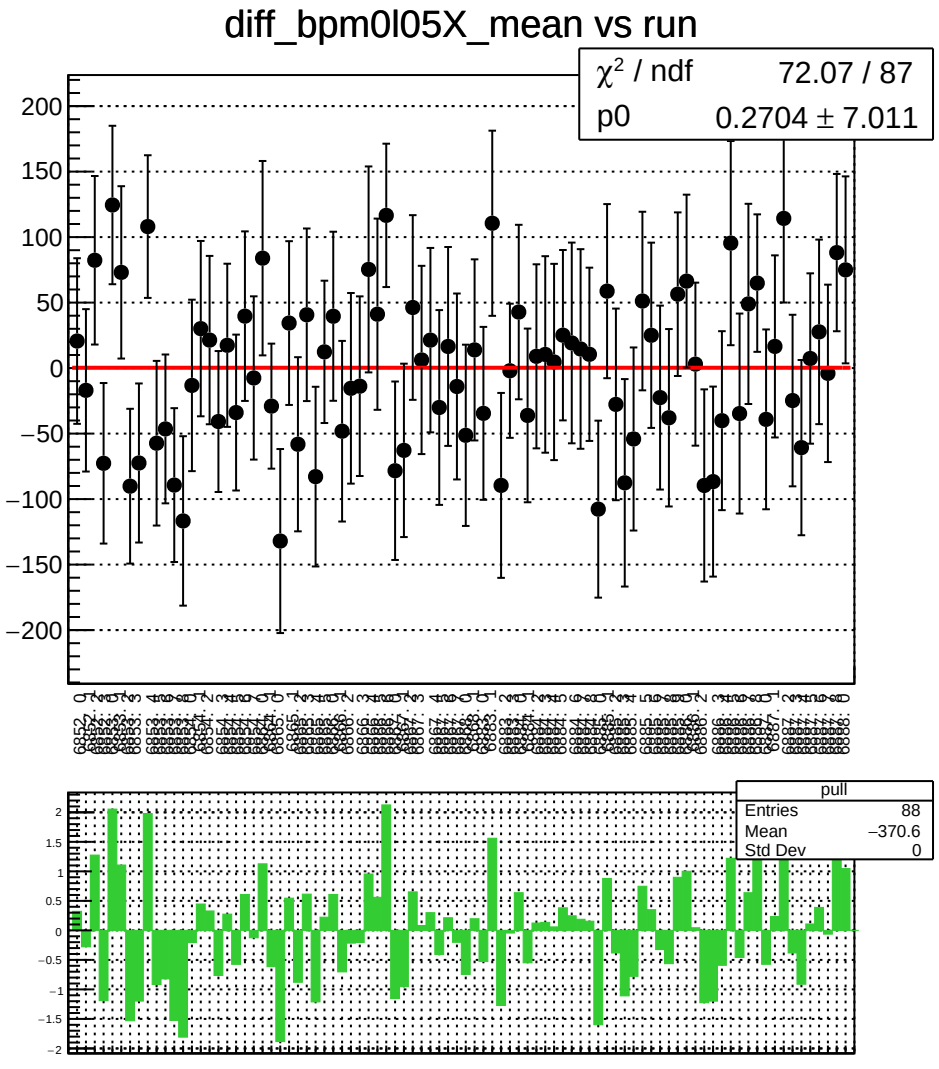

pull1D
Entries 88
Mean −0.002842
Std Dev 0.9901

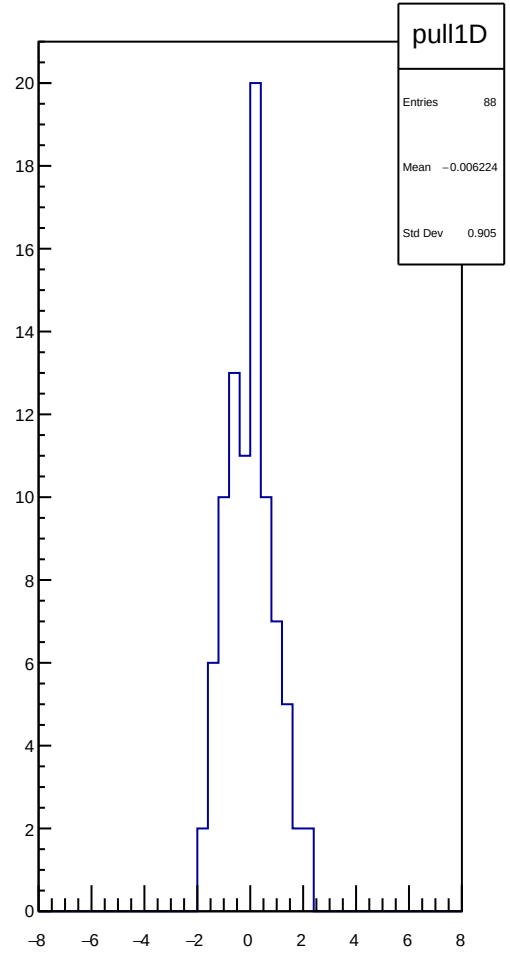

diff_bpm0l04X_rms vs run
χ² / ndf 4213 / 87
p0 2058 ± 1.585
2300
2200
2100
2000
1900
1800

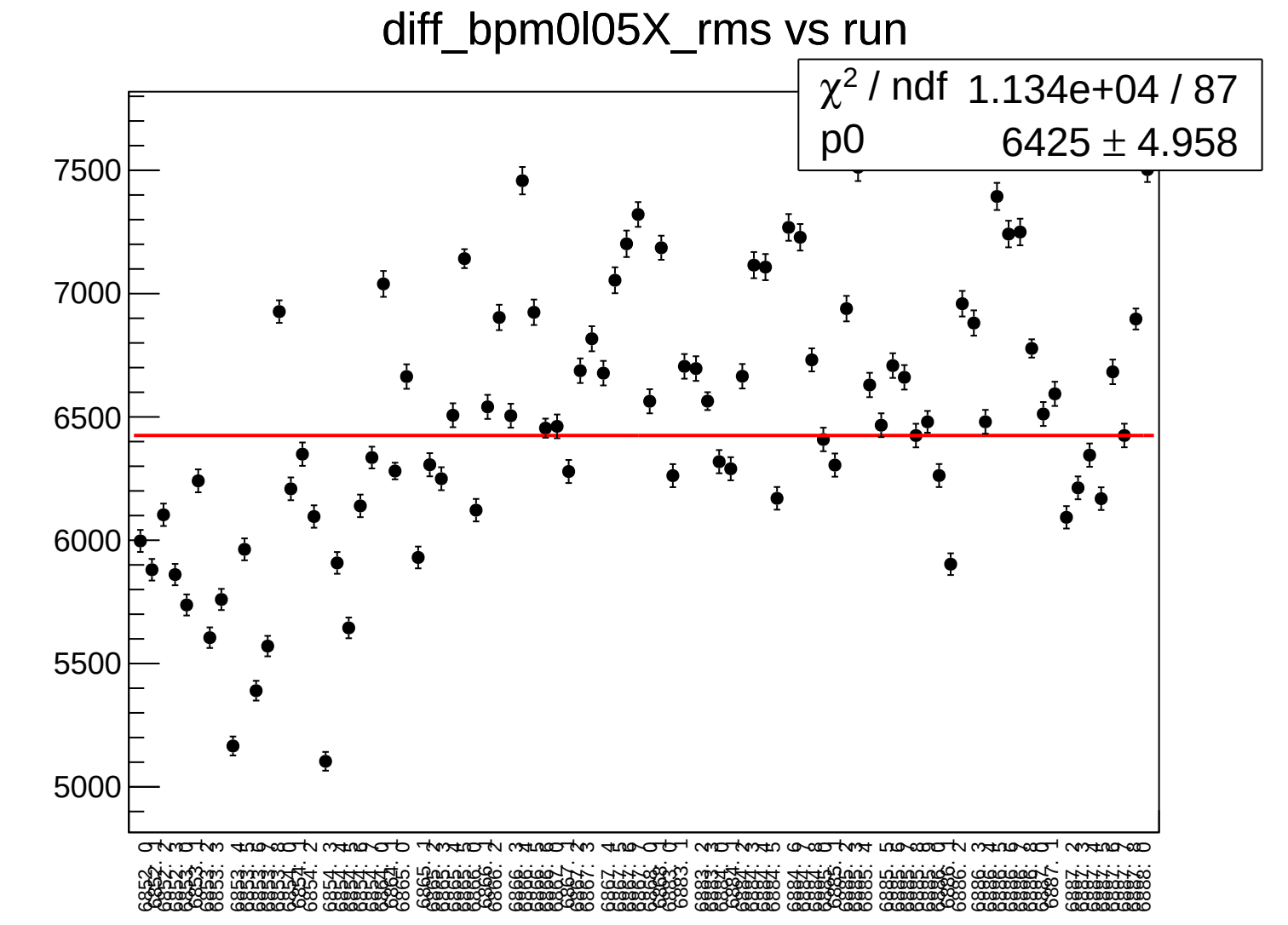

diff_bpm0l04Y_mean vs run
χ² / ndf 168.2 / 87
p0 −6.631 ± 1.597
pull
Entries 88
Mean −930.5
Std Dev 0

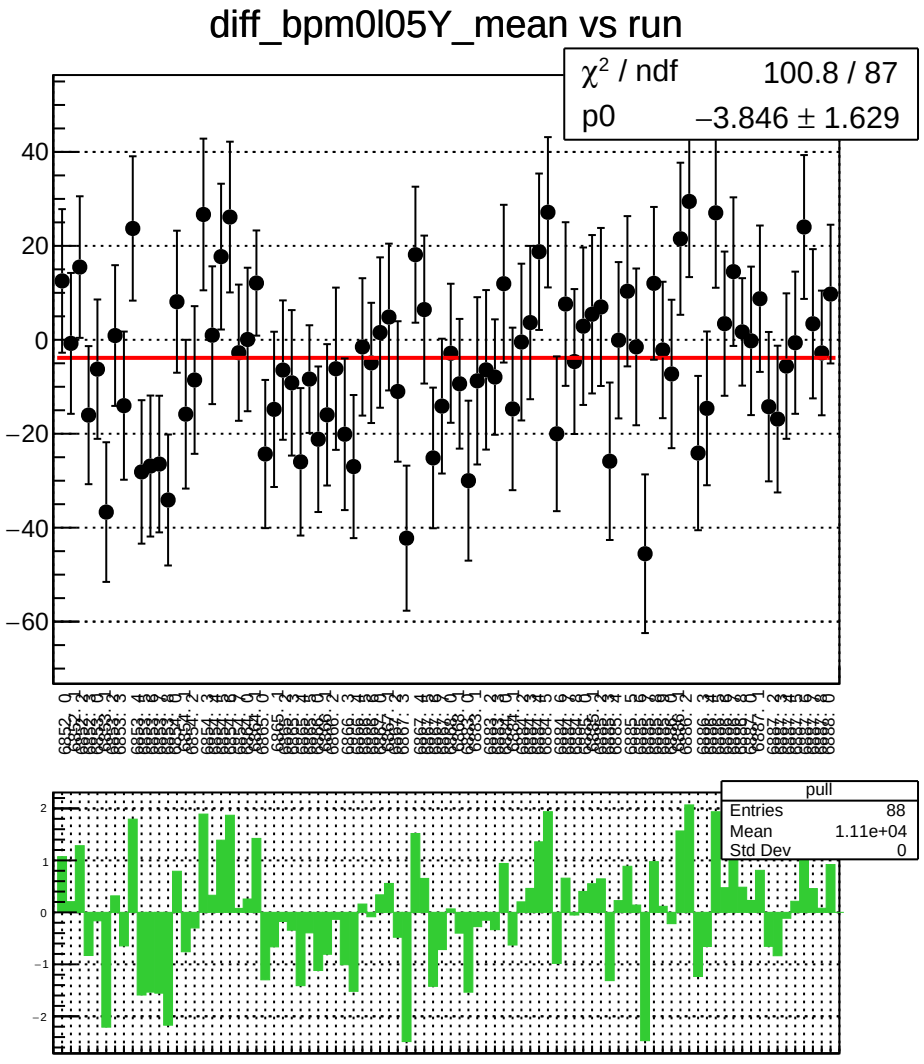

pull1D
Entries 88
Mean 0.01001
Std Dev 1.383

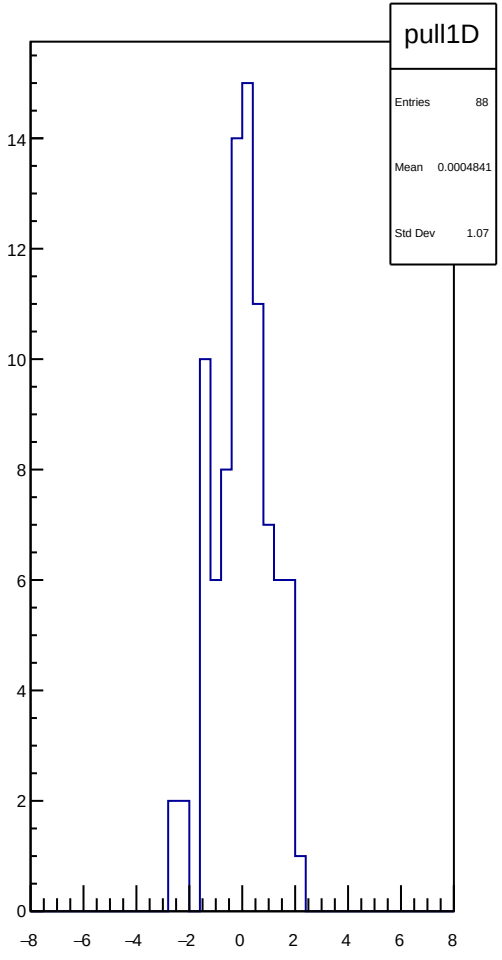

diff_bpm0l04Y_rms vs run
χ² / ndf 3880 / 87
p0 1467 ± 1.129
1650
1600
1550
1500
1450
1400
1350

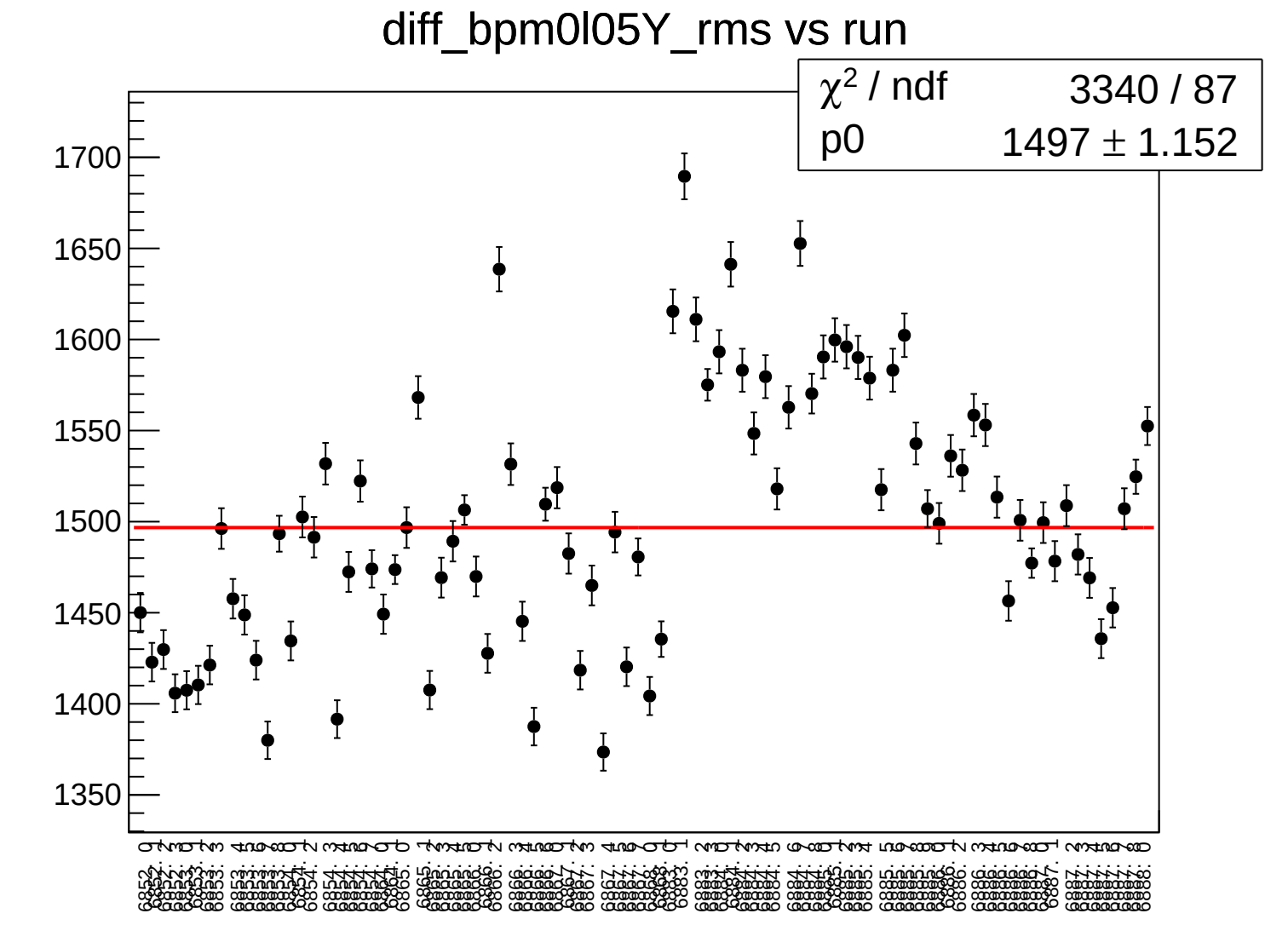

diff_bpm0l05X_mean vs run
χ² / ndf 72.07 / 87
p0 0.2704 ± 7.011
pull
Entries 88
Mean −370.6
Std Dev 0

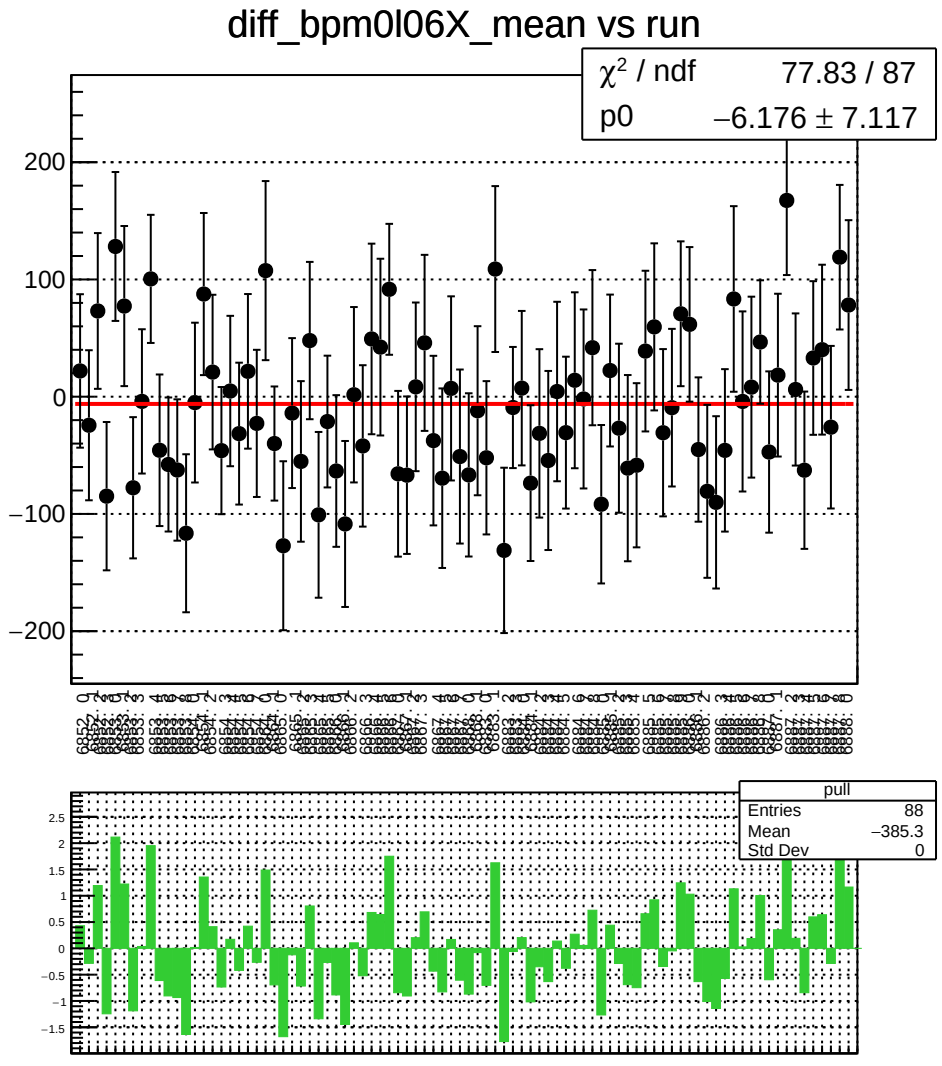

pull1D
Entries 88
Mean −0.006224
Std Dev 0.905

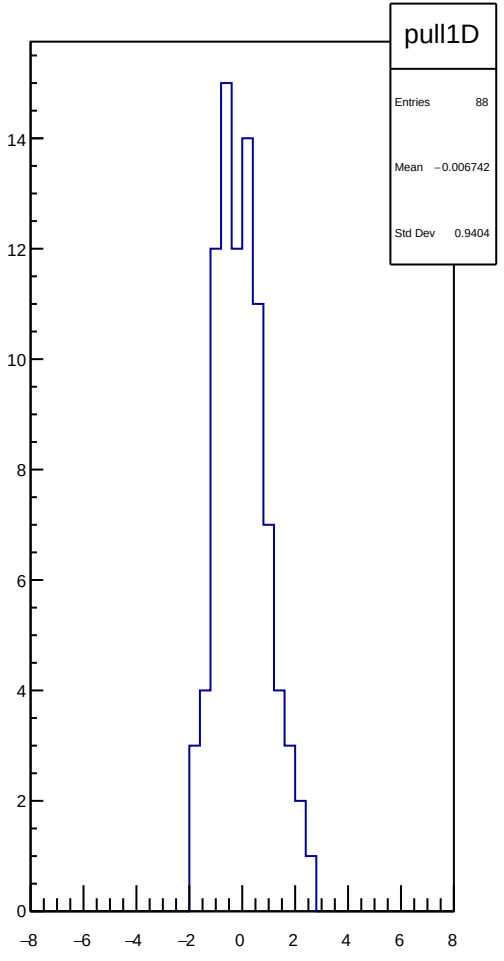

diff_bpm0l05X_rms vs run
χ² / ndf 1.134e+04 / 87
p0 6425 ± 4.958
7500
7000
6500
6000
5500
5000

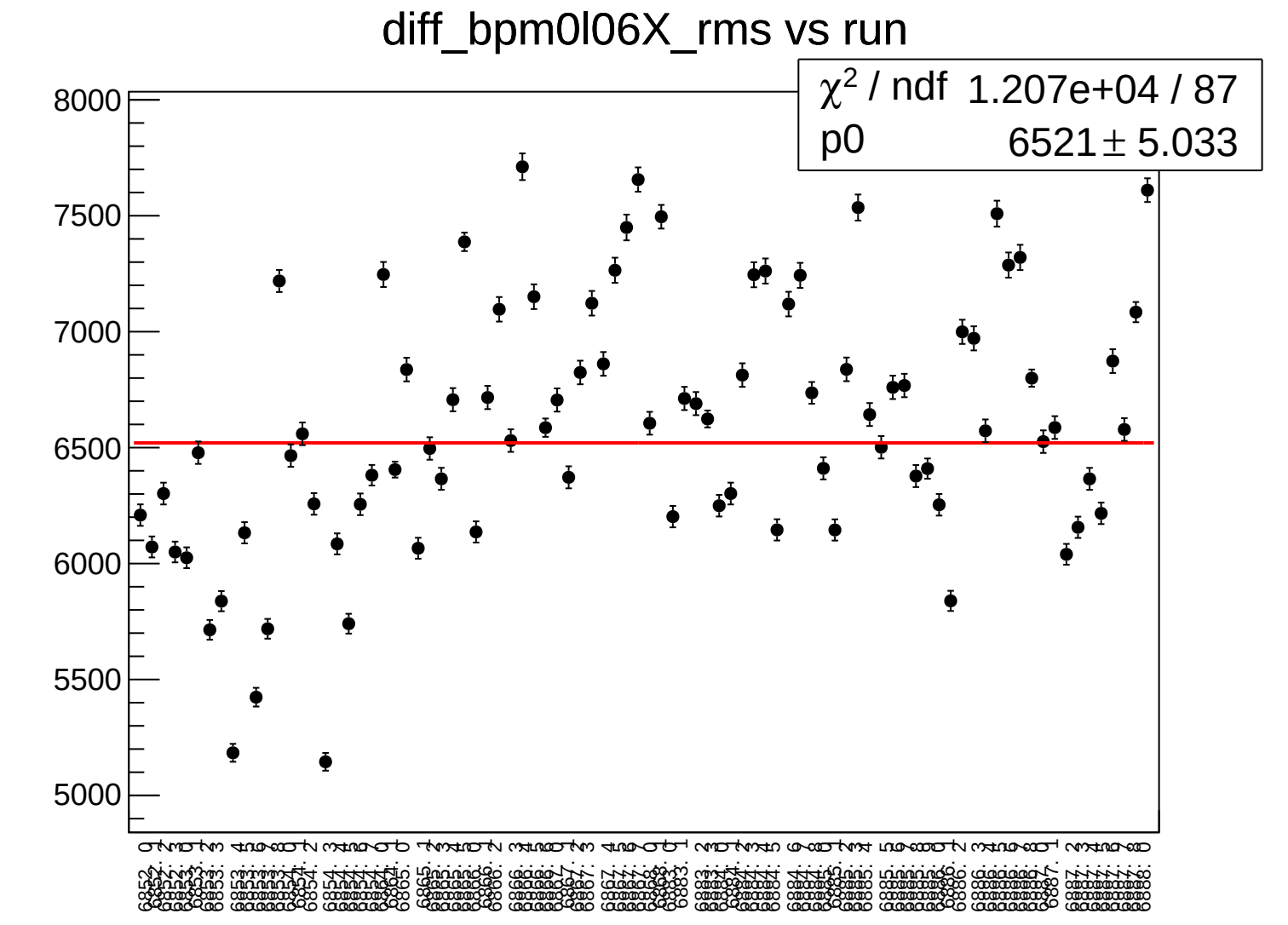

diff_bpm0l05Y_mean vs run
χ² / ndf 100.8 / 87
p0 −3.846 ± 1.629
pull
Entries 88
Mean 1.11e+04
Std Dev 0

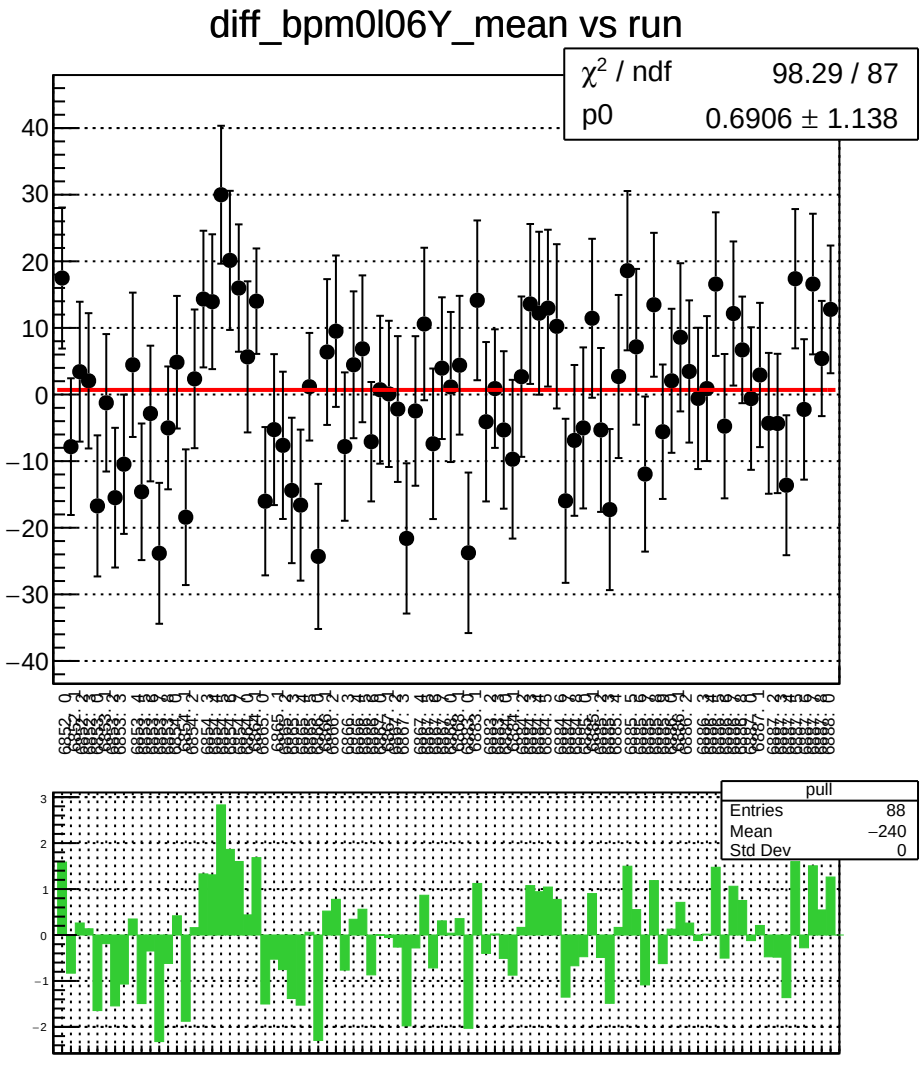

pull1D
Entries 88
Mean 0.0004841
Std Dev 1.07

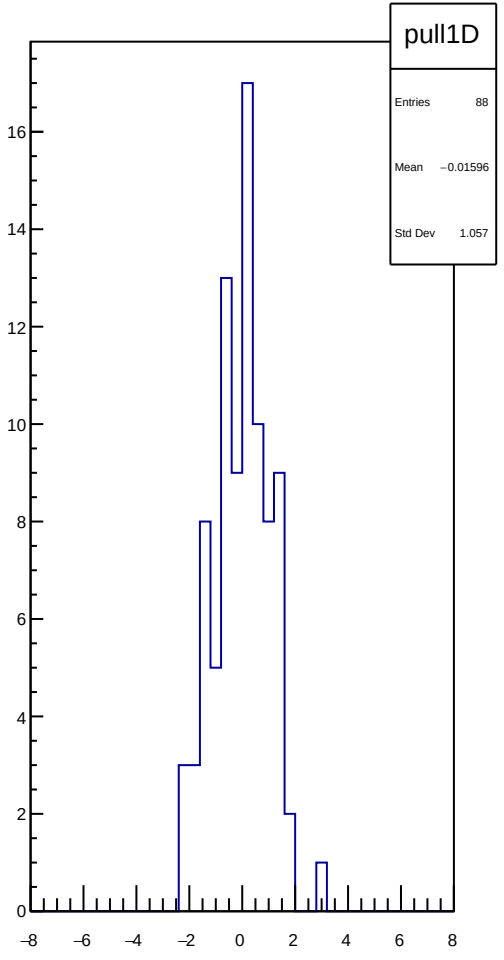

diff_bpm0l05Y_rms vs run
χ² / ndf 3340 / 87
p0 1497 ± 1.152
1700
1650
1600
1550
1500
1450
1400
1350

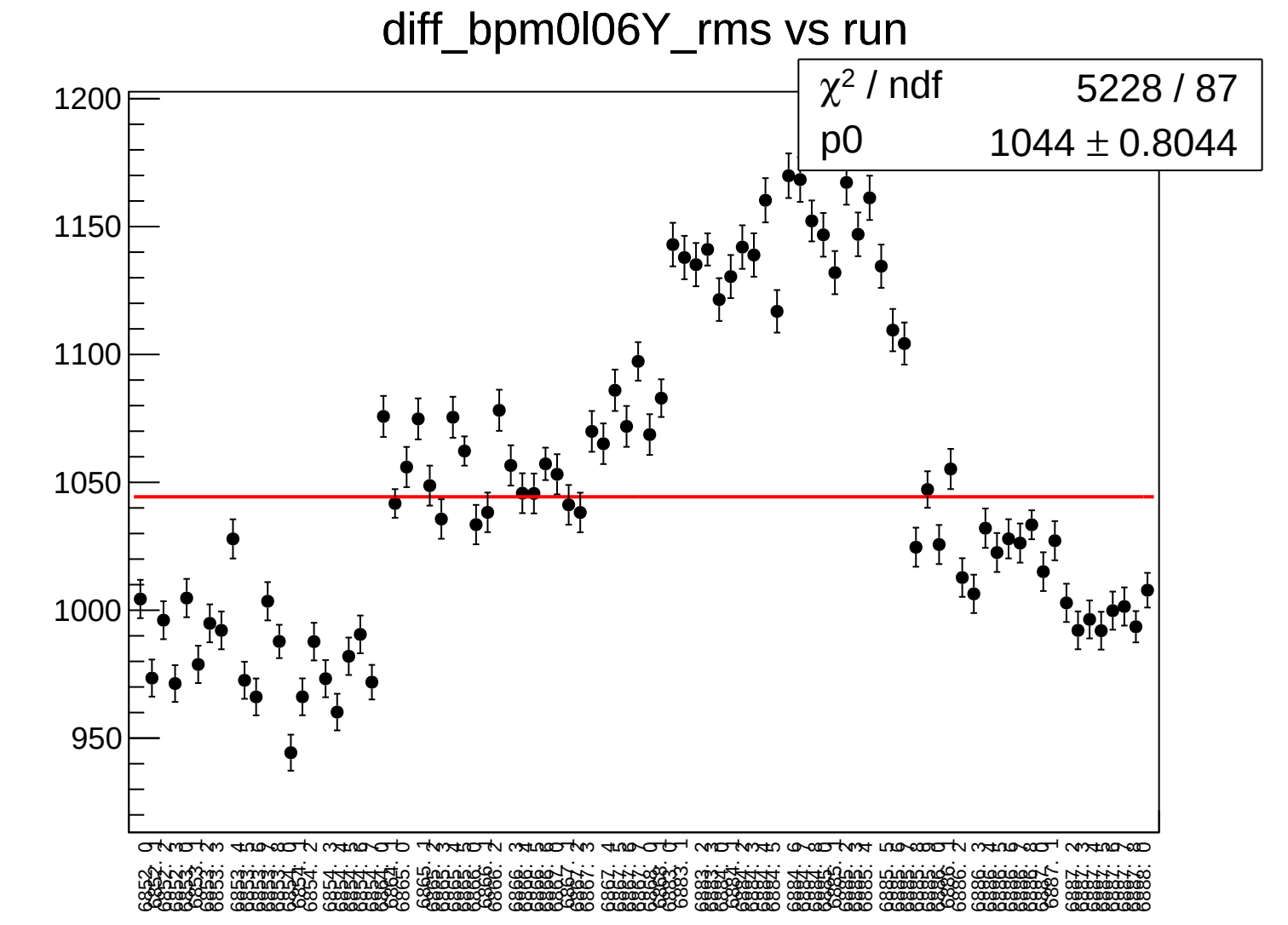

diff_bpm0l06X_mean vs run
χ² / ndf 77.83 / 87
p0 −6.176 ± 7.117
200
100
0
−100
−200
pull
Entries 88
Mean −385.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

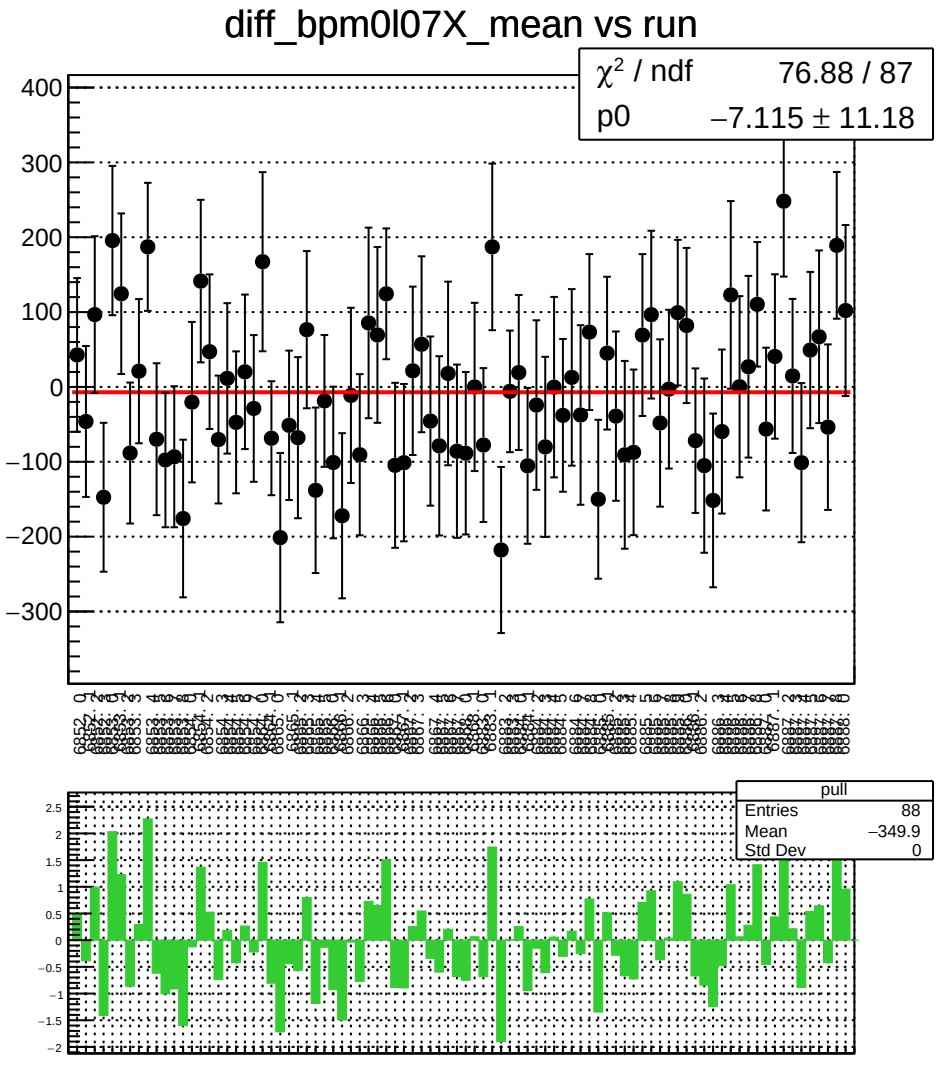

pull1D
Entries 88
Mean −0.006742
Std Dev 0.9404
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

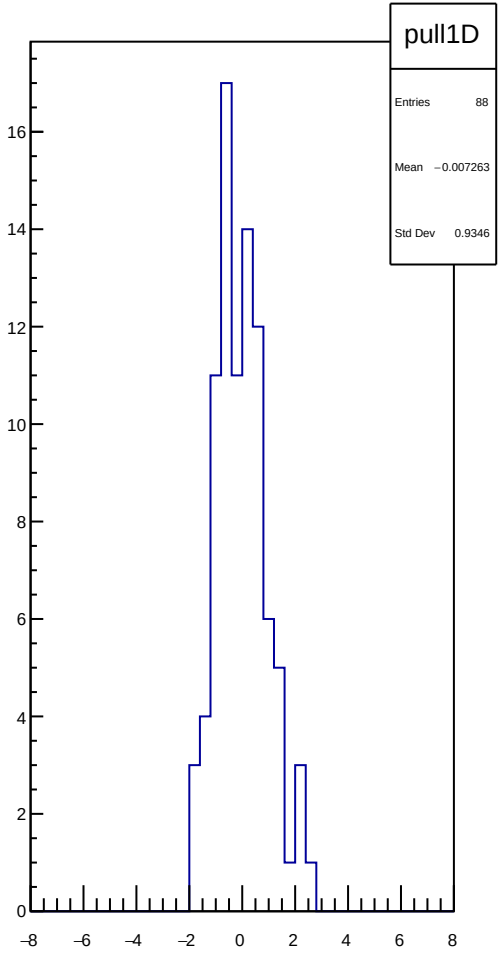

diff_bpm0l06X_rms vs run
χ^2 / ndf 1.207e+04 / 87
p0 6521 ± 5.033
8000
7500
7000
6500
6000
5500
5000

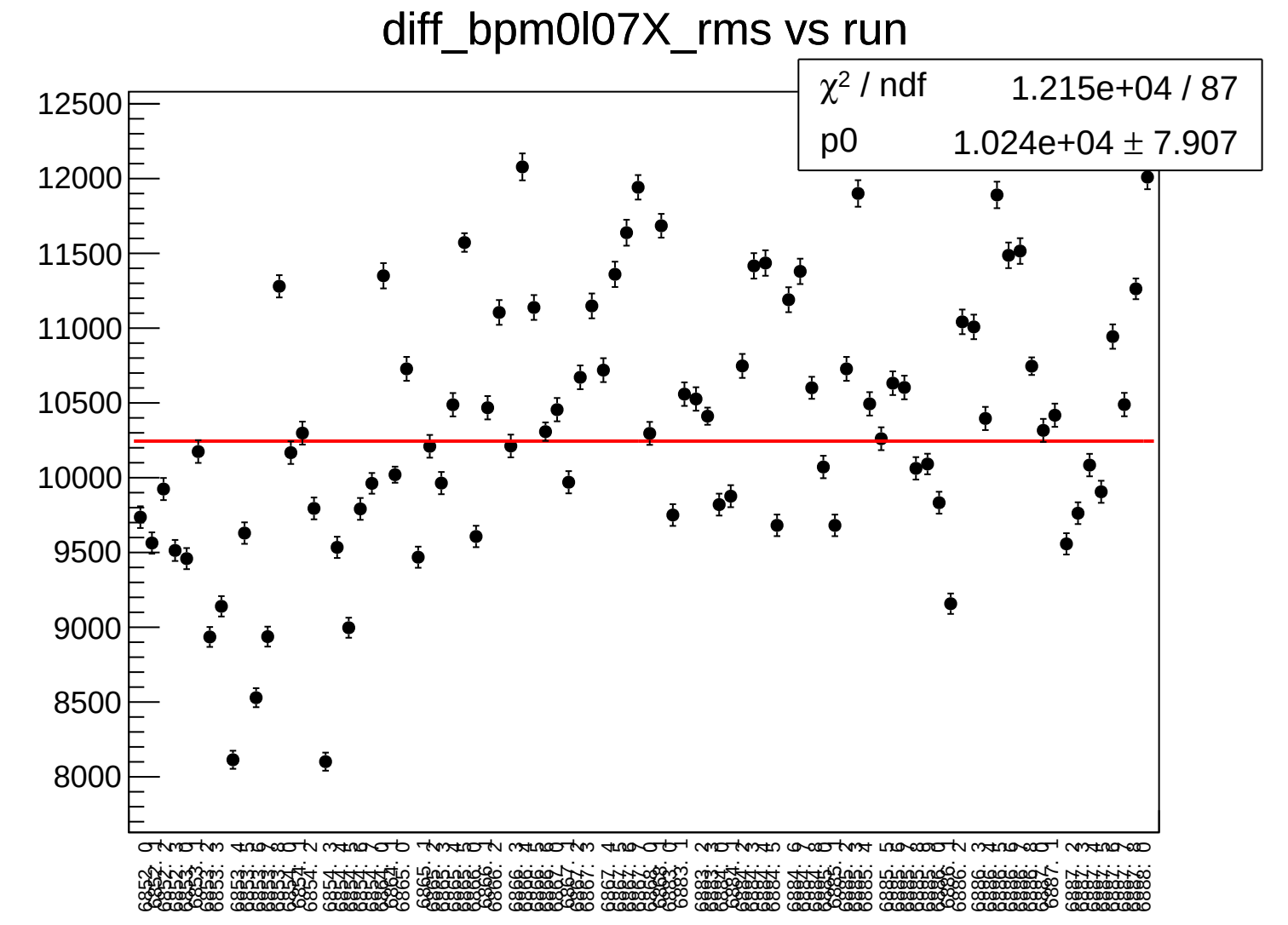

diff_bpm0l06Y_mean vs run
χ² / ndf 98.29 / 87
p0 0.6906 ± 1.138
pull
Entries 88
Mean −240
Std Dev 0

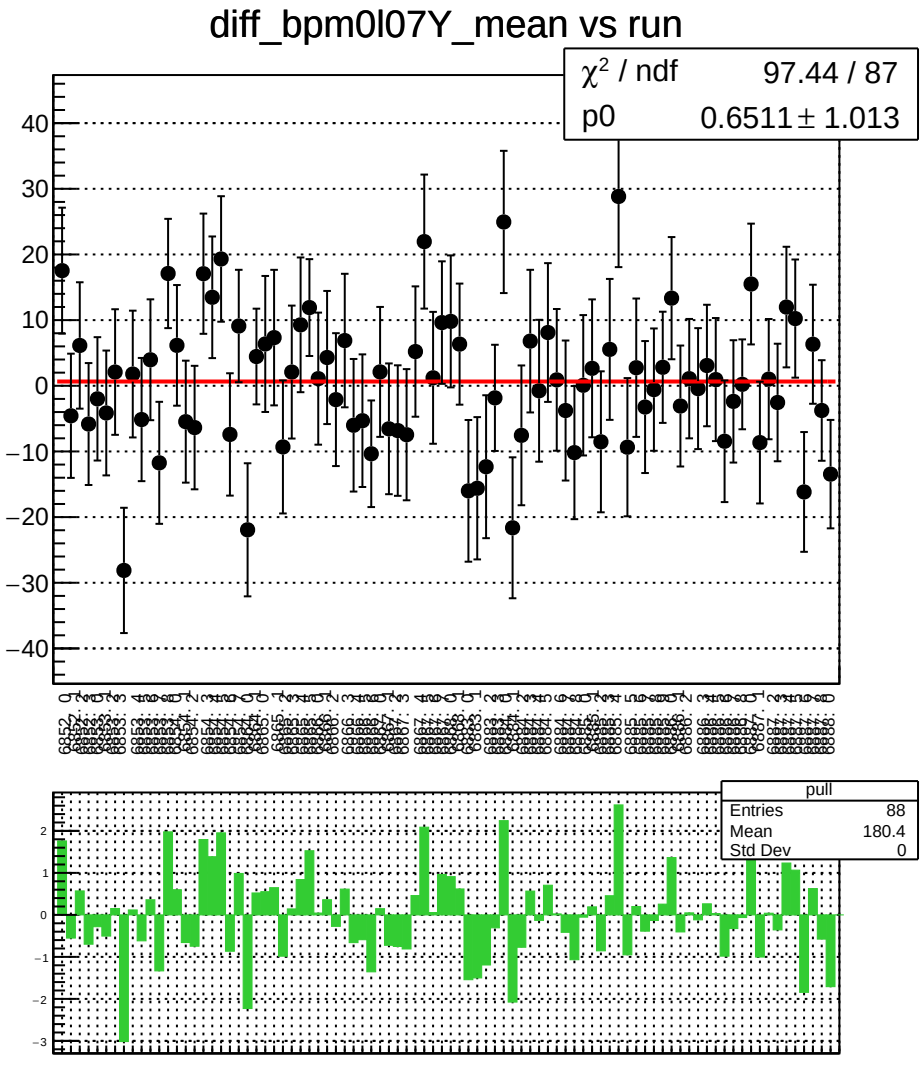

pull1D
Entries 88
Mean −0.01596
Std Dev 1.057

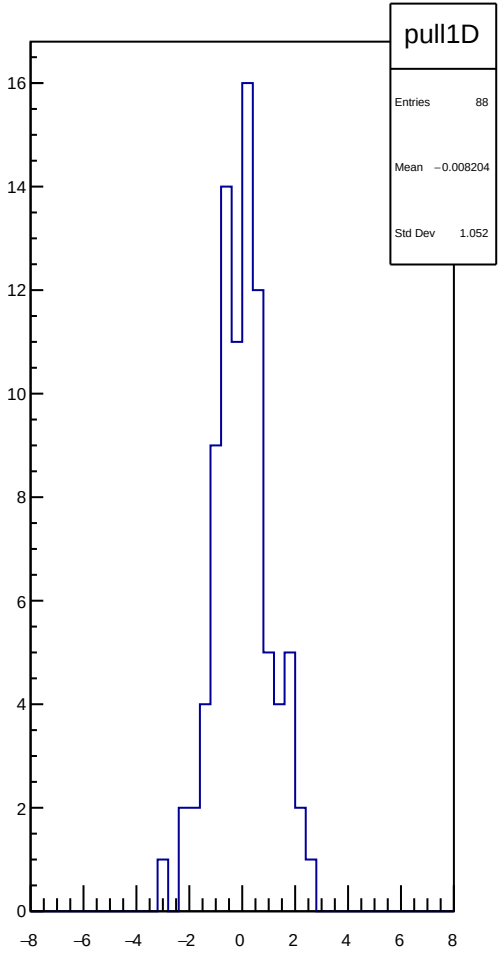

diff_bpm0l06Y_rms vs run
χ² / ndf 5228 / 87
p0 1044 ± 0.8044
1200
1150
1100
1050
1000
950

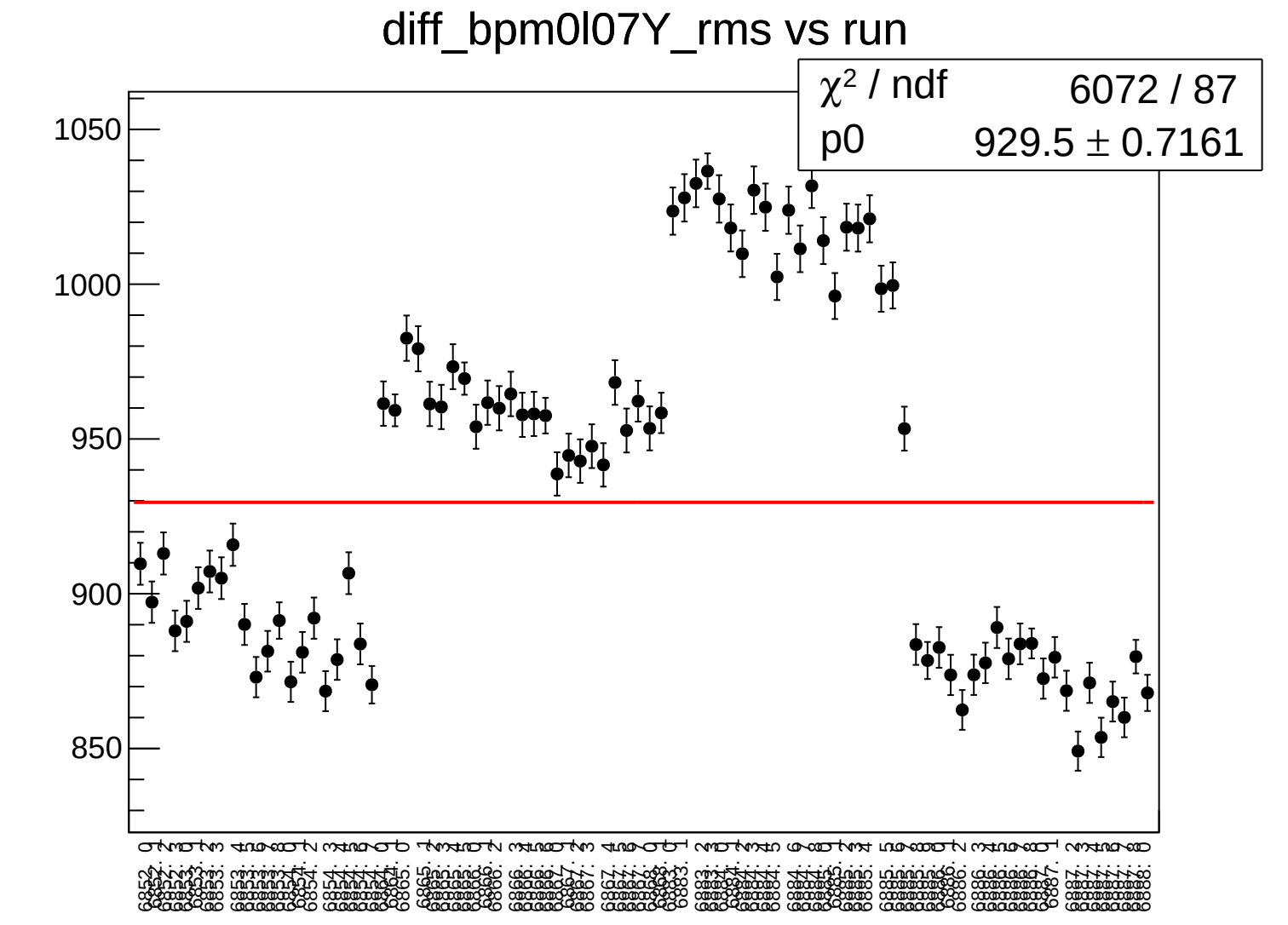

diff_bpm0l07X_mean vs run
χ² / ndf 76.88 / 87
p0 −7.115 ± 11.18
pull
Entries 88
Mean −349.9
Std Dev 0

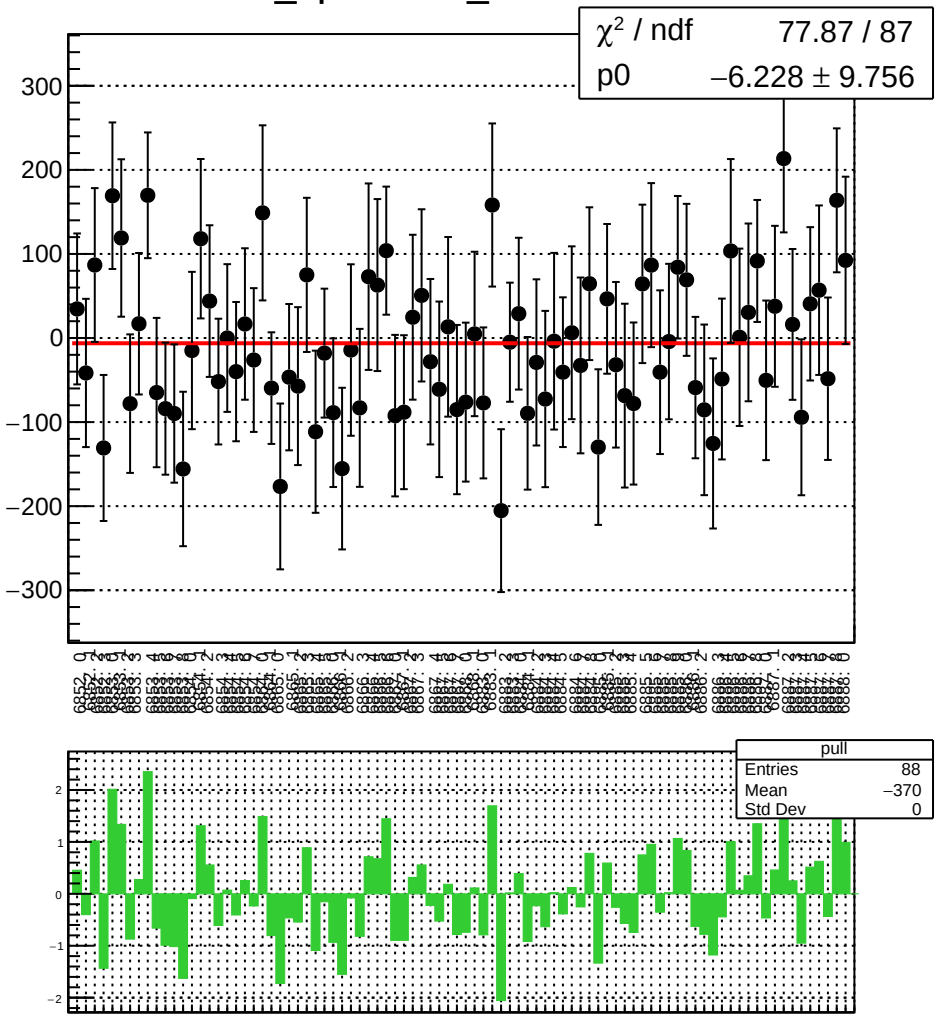

pull1D
Entries 88
Mean −0.007263
Std Dev 0.9346

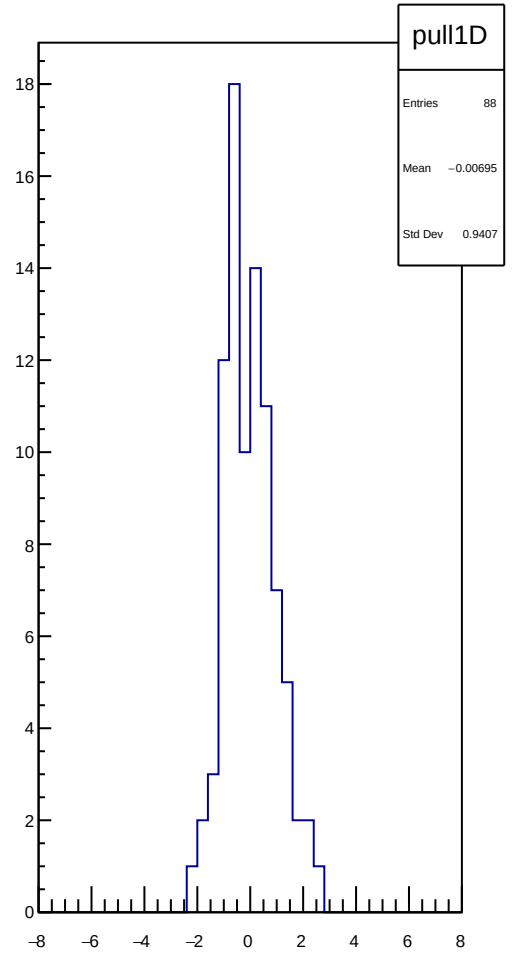

diff_bpm0l07X_rms vs run
χ² / ndf 1.215e+04 / 87
p0 1.024e+04 ± 7.907
12500
12000
11500
11000
10500
10000
9500
9000
8500
8000

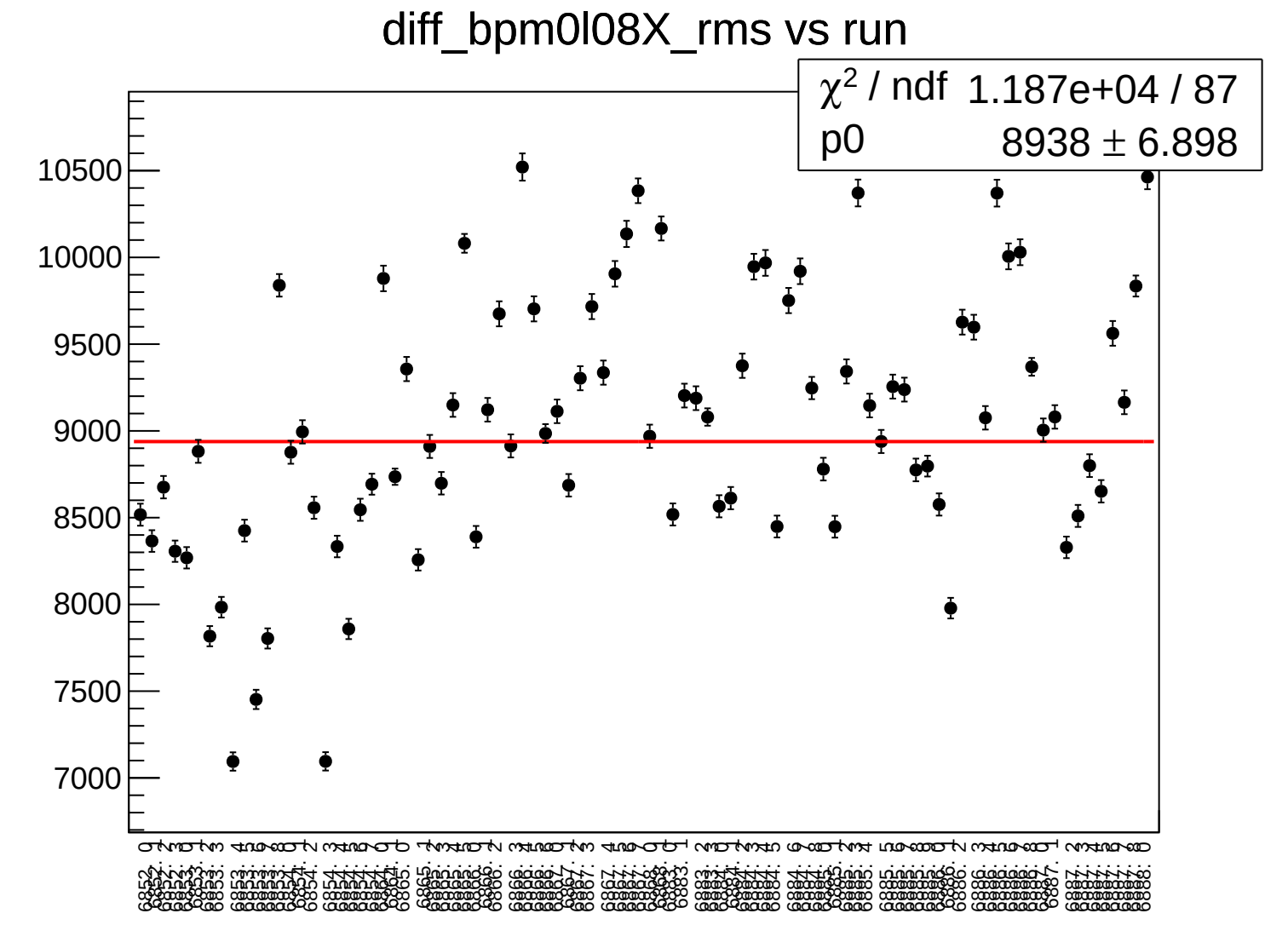

diff_bpm0l07Y_mean vs run
χ² / ndf 97.44 / 87
p0 0.6511 ± 1.013
pull
Entries 88
Mean 180.4
Std Dev 0

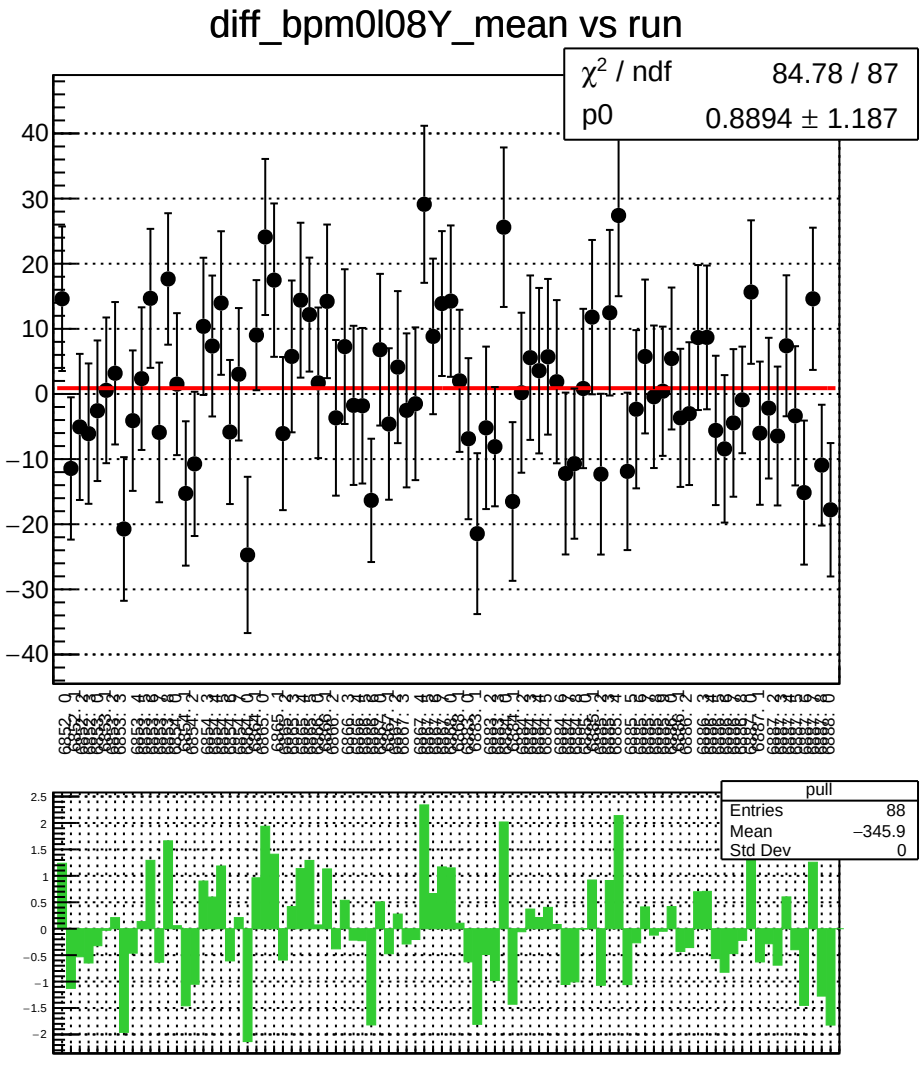

pull1D
Entries 88
Mean −0.008204
Std Dev 1.052

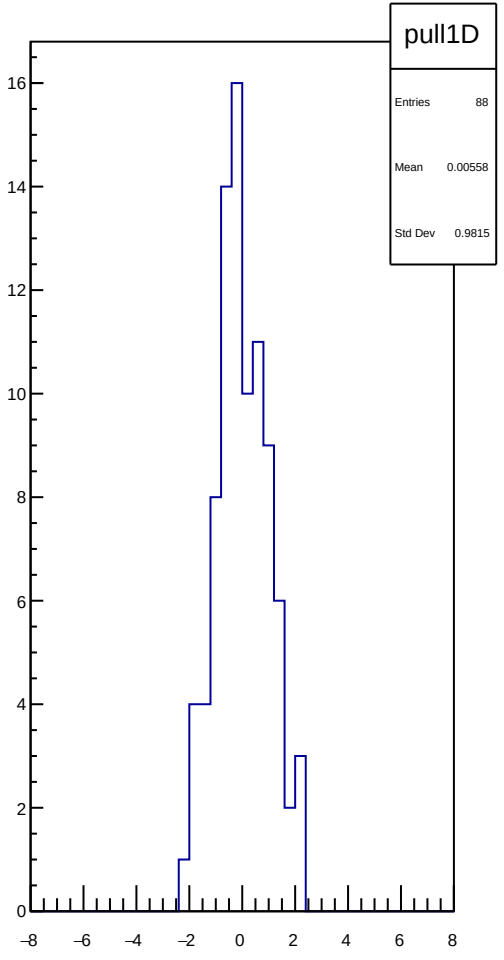

diff_bpm0l07Y_rms vs run
χ² / ndf 6072 / 87
p0 929.5 ± 0.7161
1050
1000
950
900
850

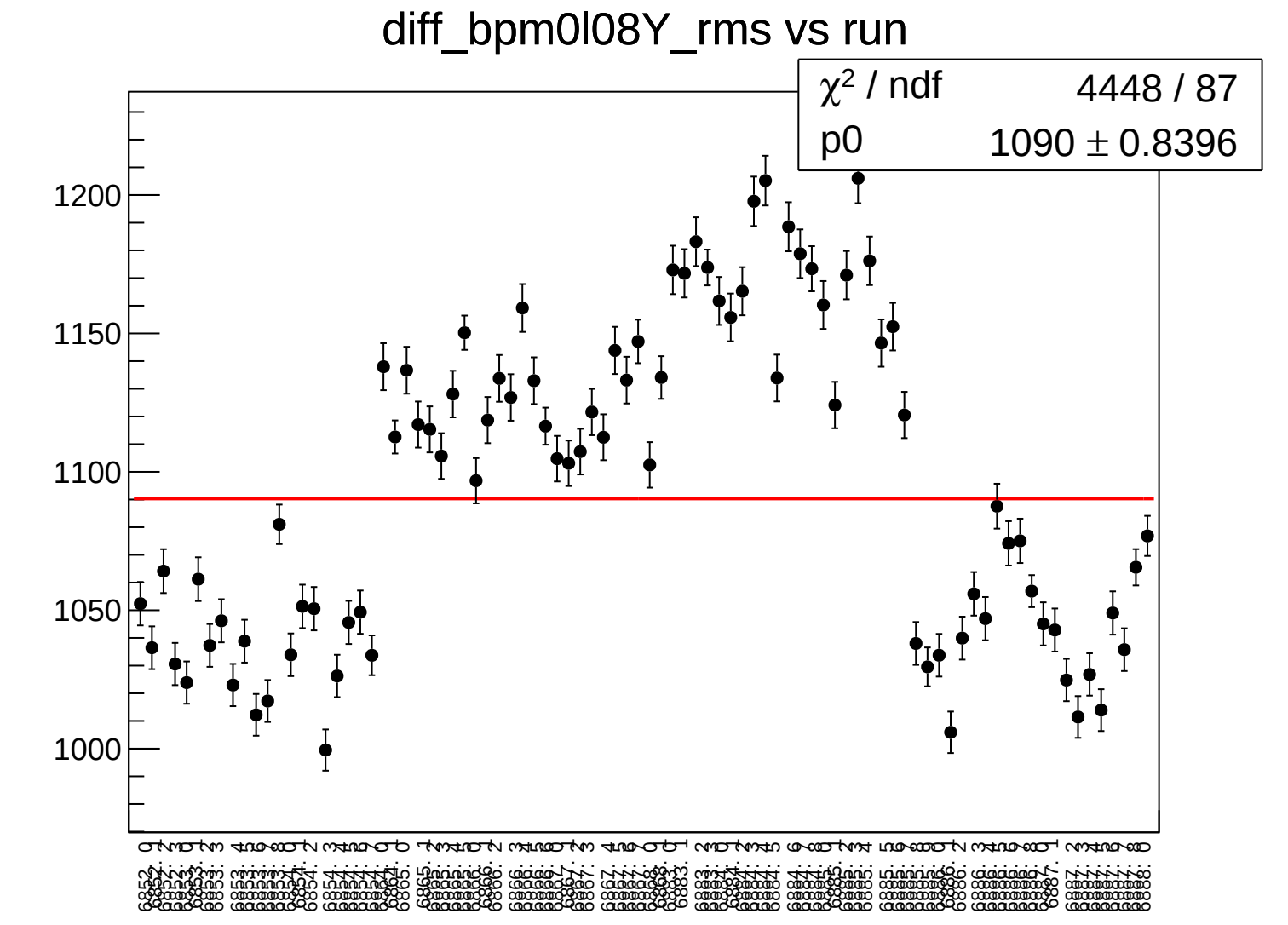

diff_bpm0l08X_mean vs run
χ² / ndf 77.87 / 87
p0 −6.228 ± 9.756
pull
Entries 88
Mean −370
Std Dev 0

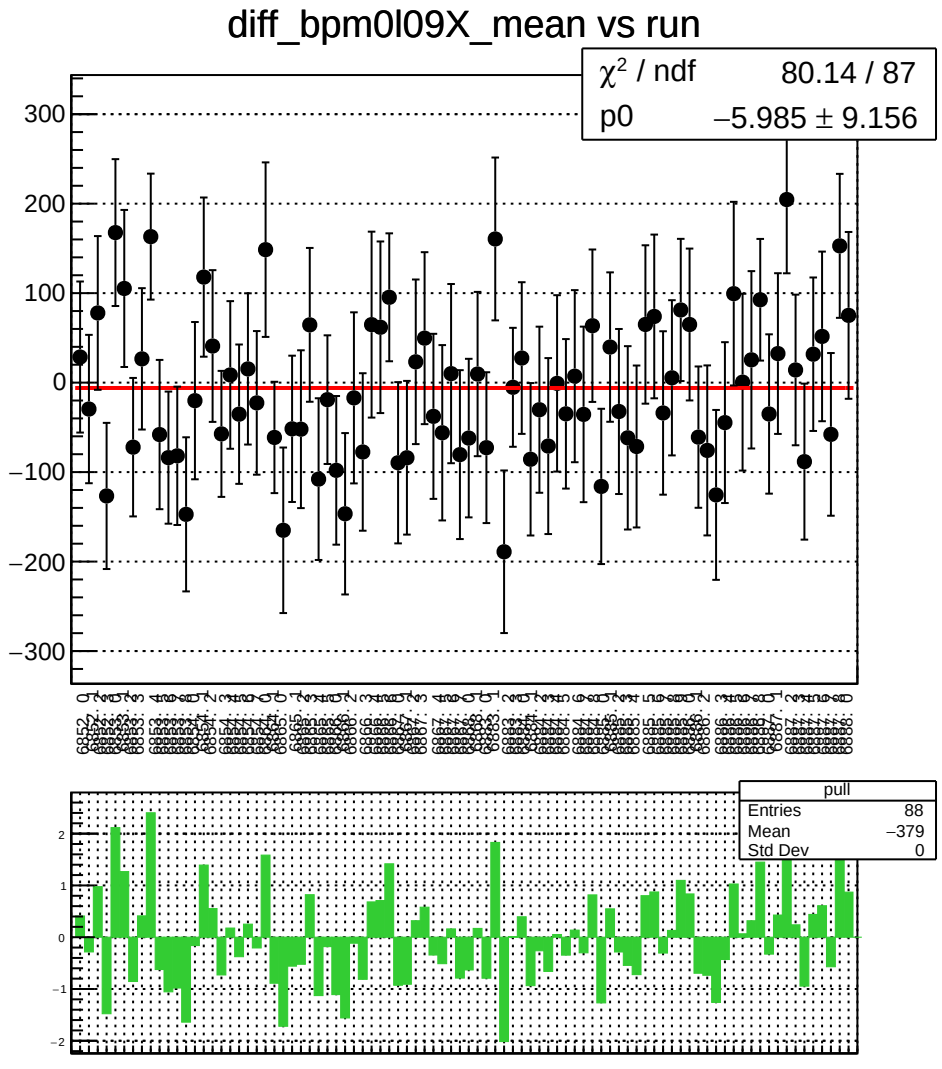

pull1D
Entries 88
Mean −0.00695
Std Dev 0.9407

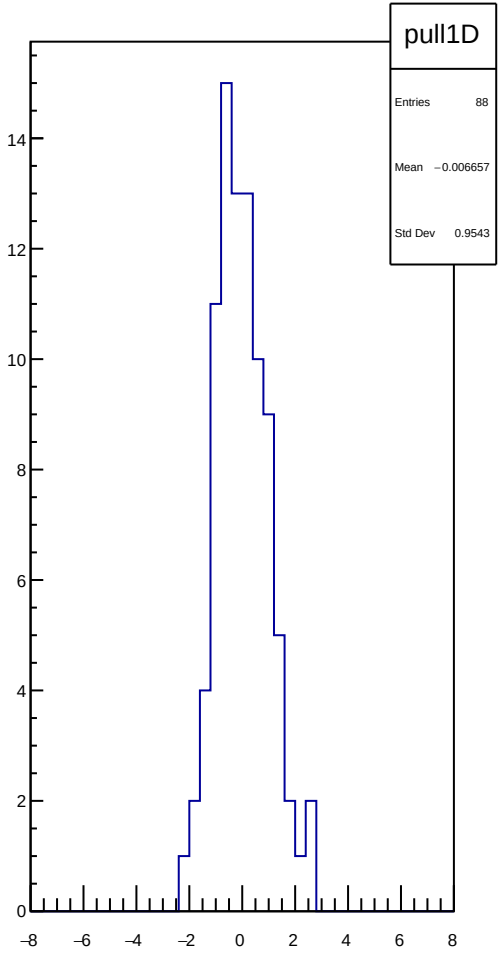

diff_bpm0l08X_rms vs run
χ^2 / ndf 1.187e+04 / 87
p0 8938 ± 6.898
10500
10000
9500
9000
8500
8000
7500
7000

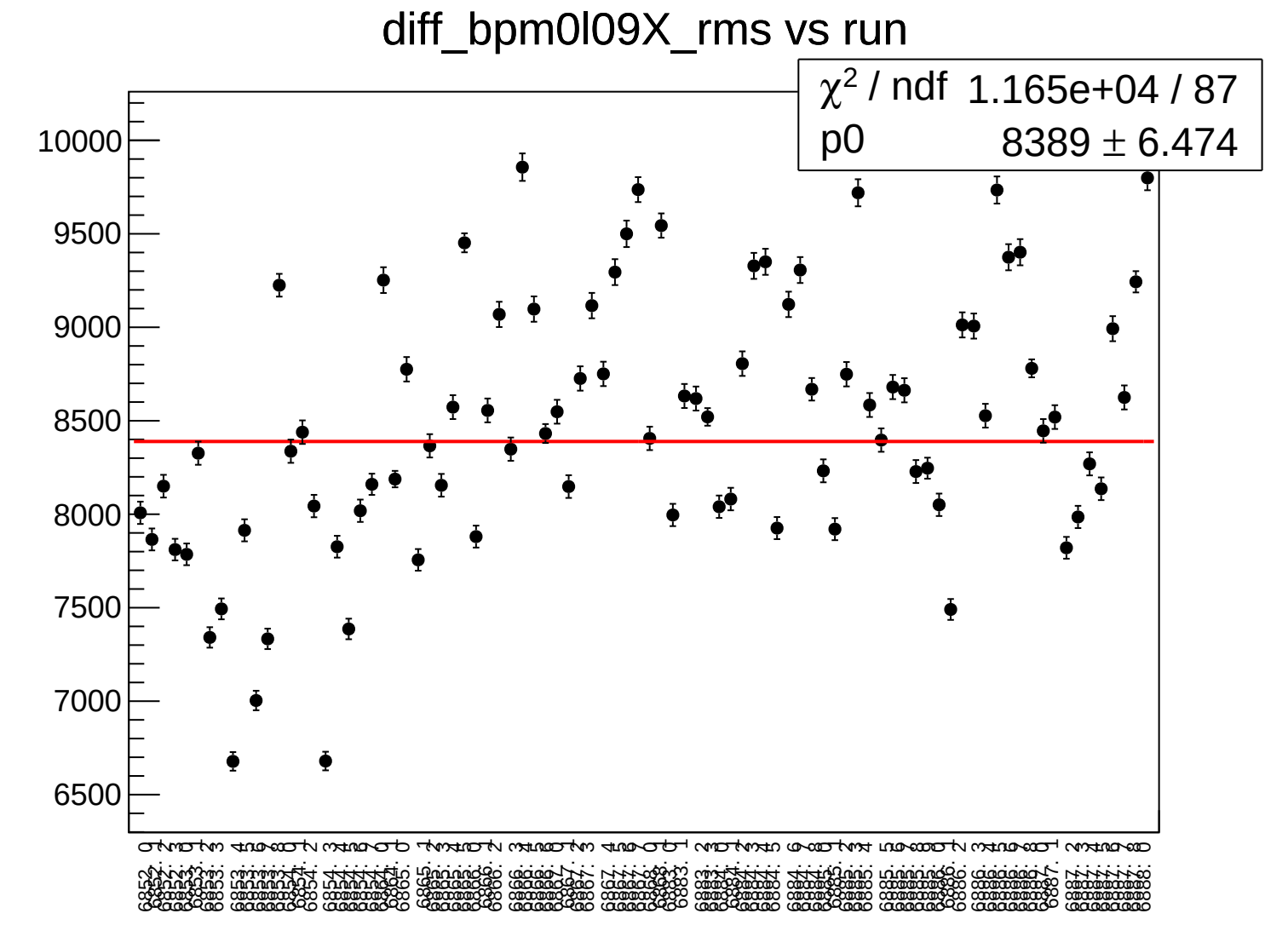

diff_bpm0l08Y_mean vs run
χ² / ndf 84.78 / 87
p0 0.8894 ± 1.187
pull
Entries 88
Mean −345.9
Std Dev 0

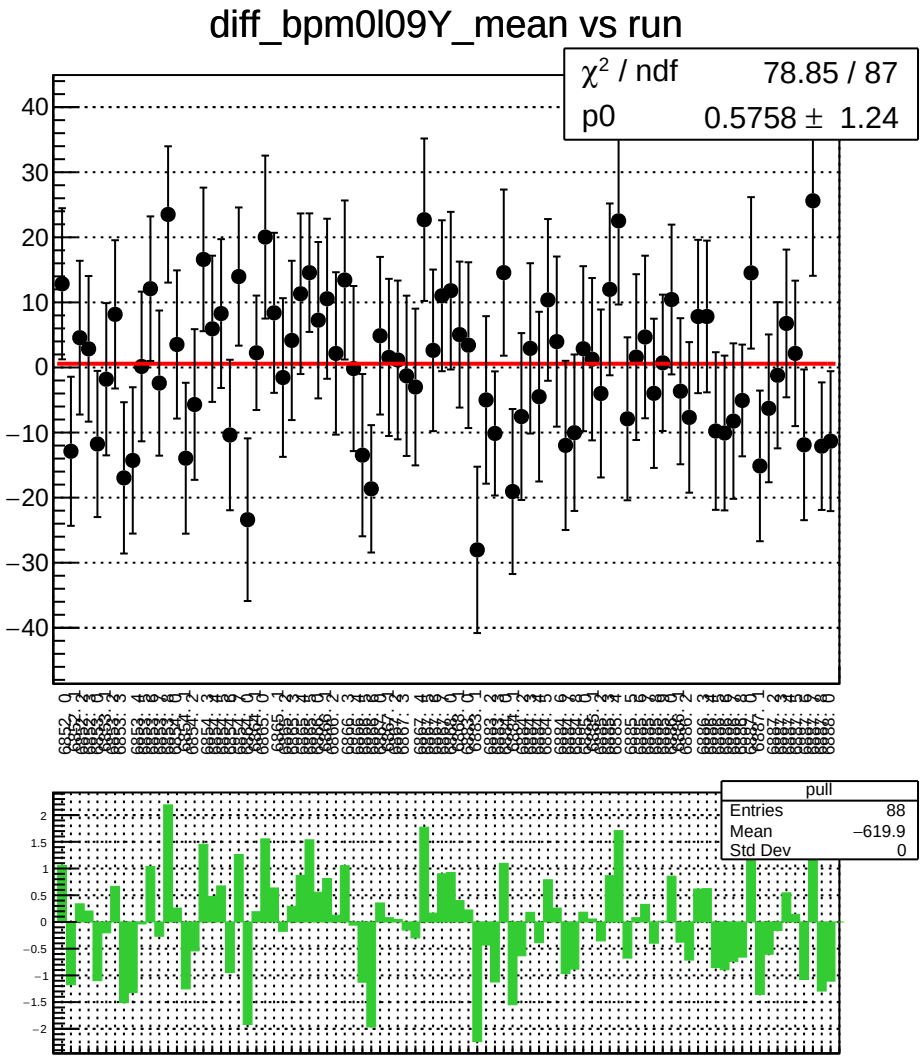

pull1D
Entries 88
Mean 0.00558
Std Dev 0.9815

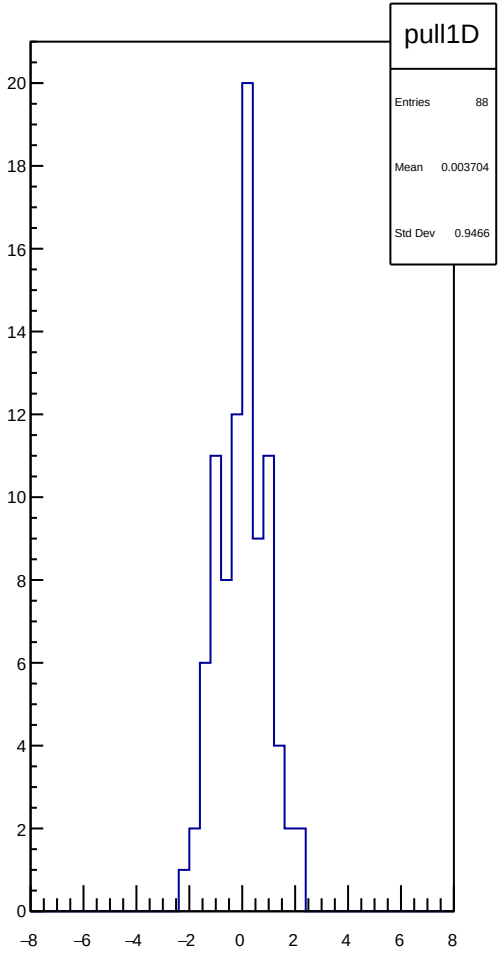

diff_bpm0l08Y_rms vs run
χ² / ndf 4448 / 87
p0 1090 ± 0.8396
1200
1150
1100
1050
1000

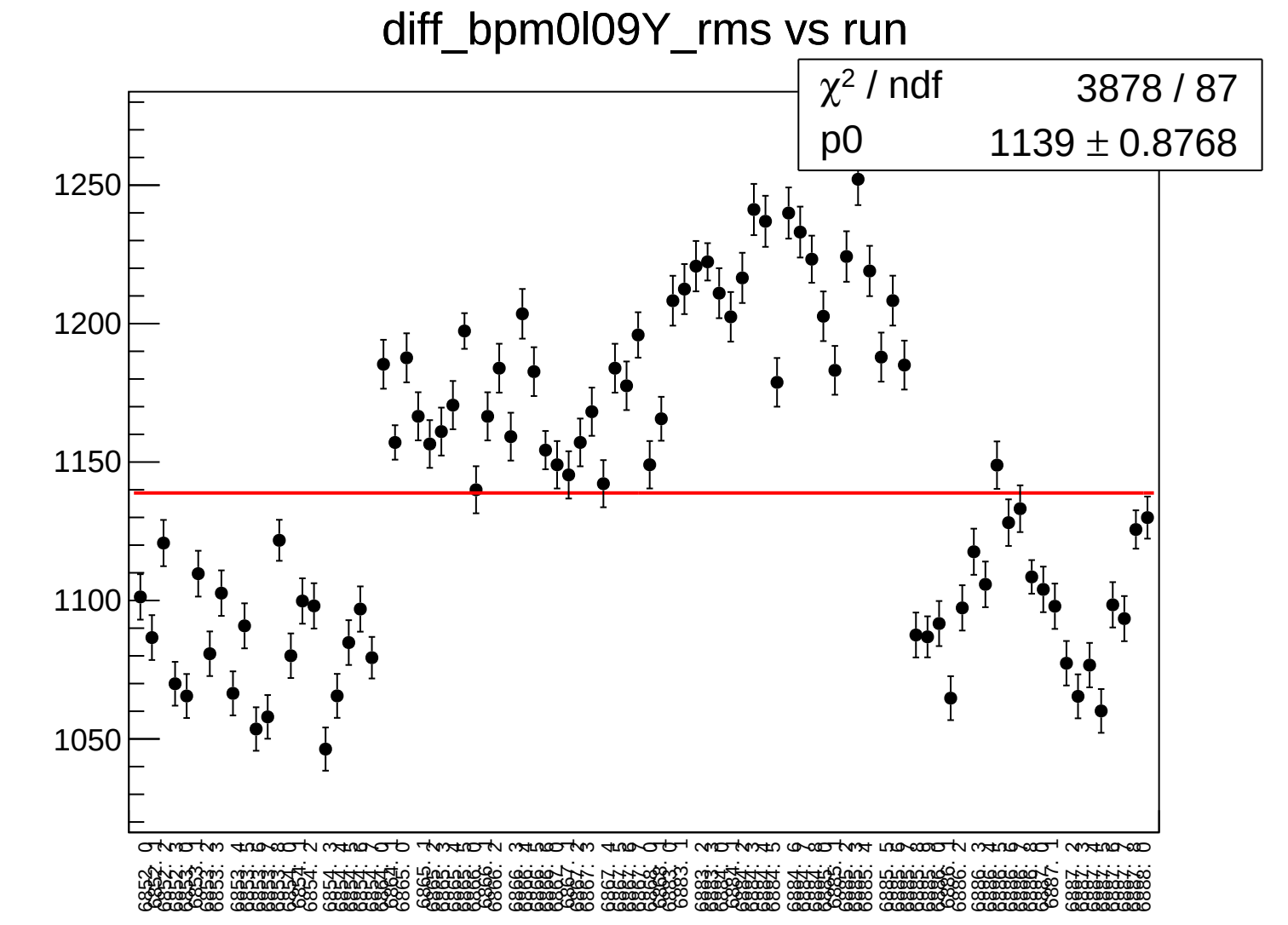

diff_bpm0l09X_mean vs run
χ² / ndf 80.14 / 87
p0 −5.985 ± 9.156
pull
Entries 88
Mean −379
Std Dev 0

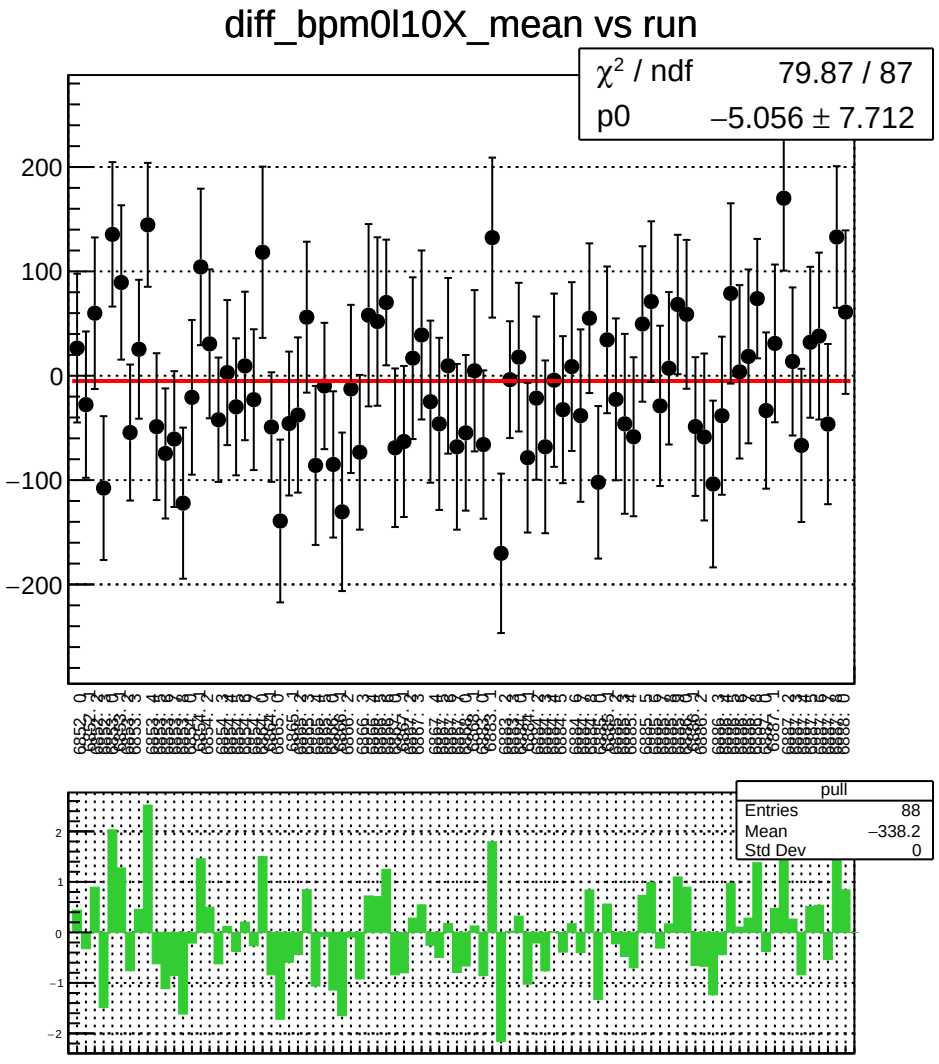

pull1D
Entries 88
Mean −0.006657
Std Dev 0.9543

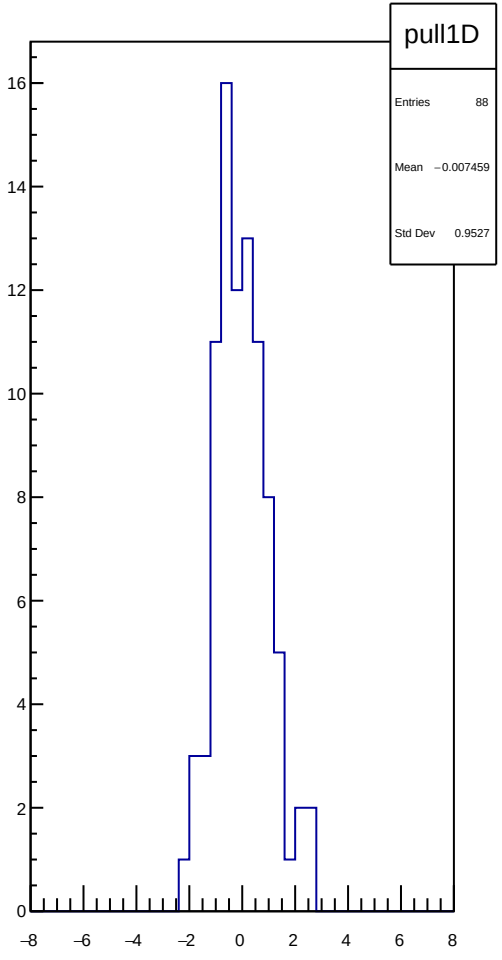

diff_bpm0l09X_rms vs run
χ^2 / ndf 1.165e+04 / 87
p0 8389 ± 6.474
10000
9500
9000
8500
8000
7500
7000
6500

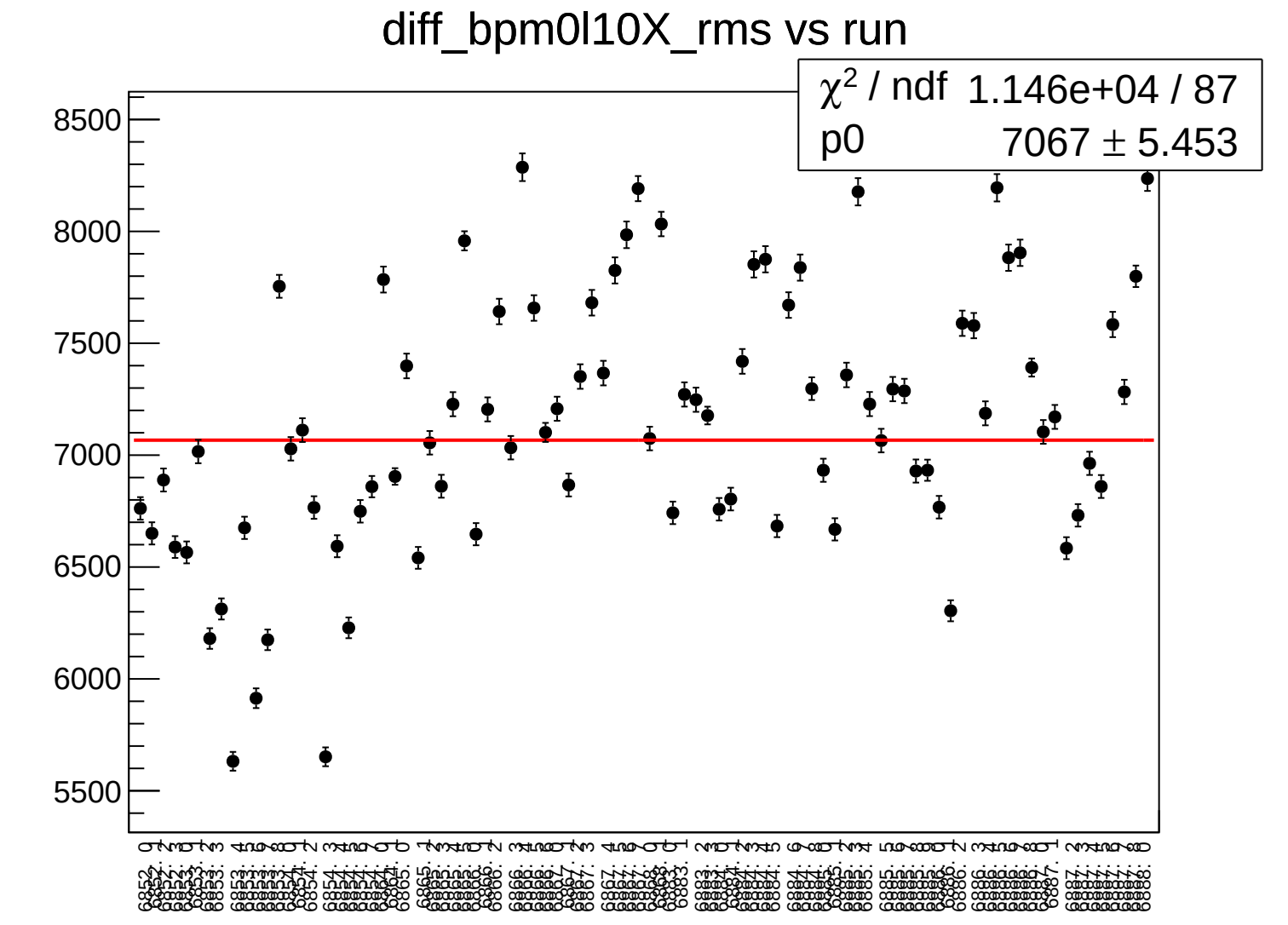

diff_bpm0l09Y_mean vs run
χ² / ndf 78.85 / 87
p0 0.5758 ± 1.24
pull
Entries 88
Mean −619.9
Std Dev 0

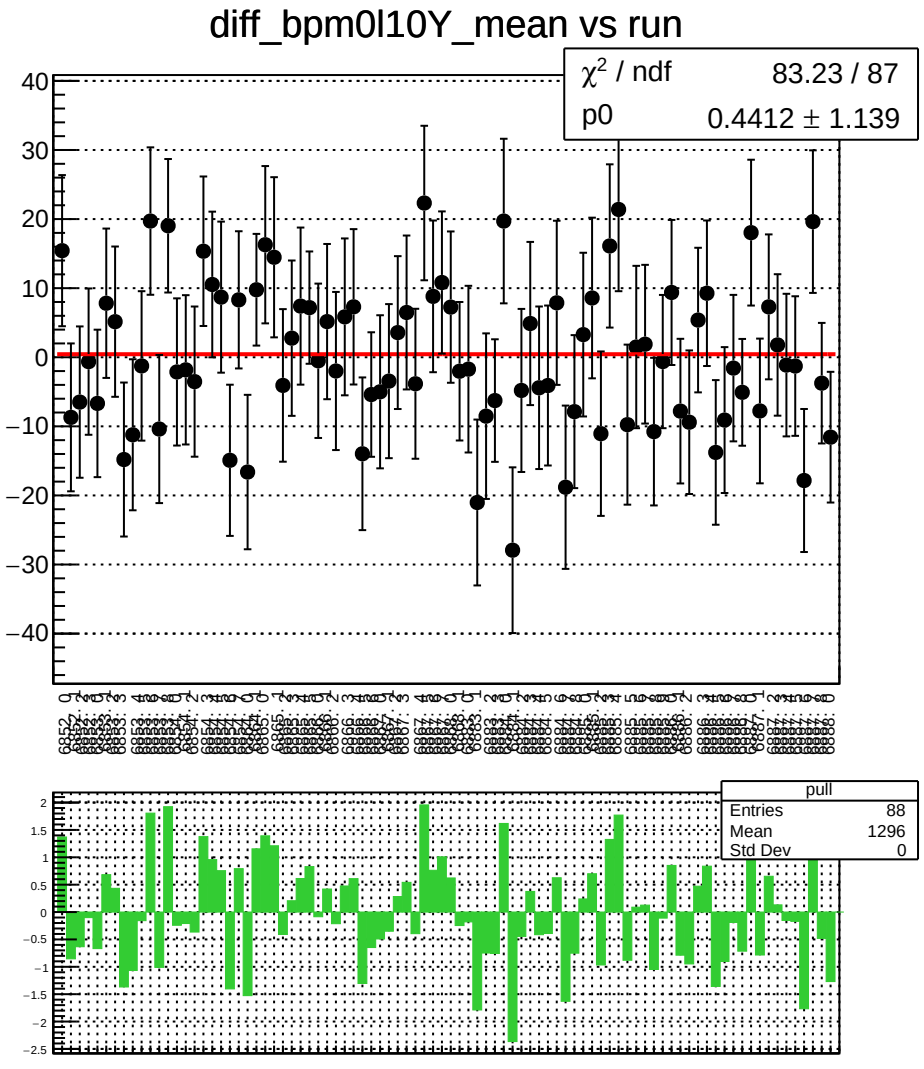

pull1D
Entries 88
Mean 0.003704
Std Dev 0.9466

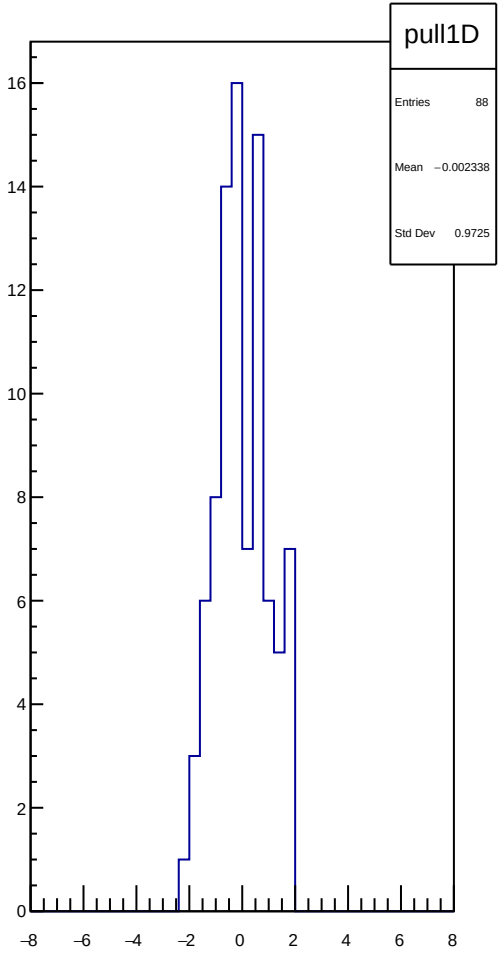

diff_bpm0l09Y_rms vs run
χ² / ndf 3878 / 87
p0 1139 ± 0.8768
1250
1200
1150
1100
1050

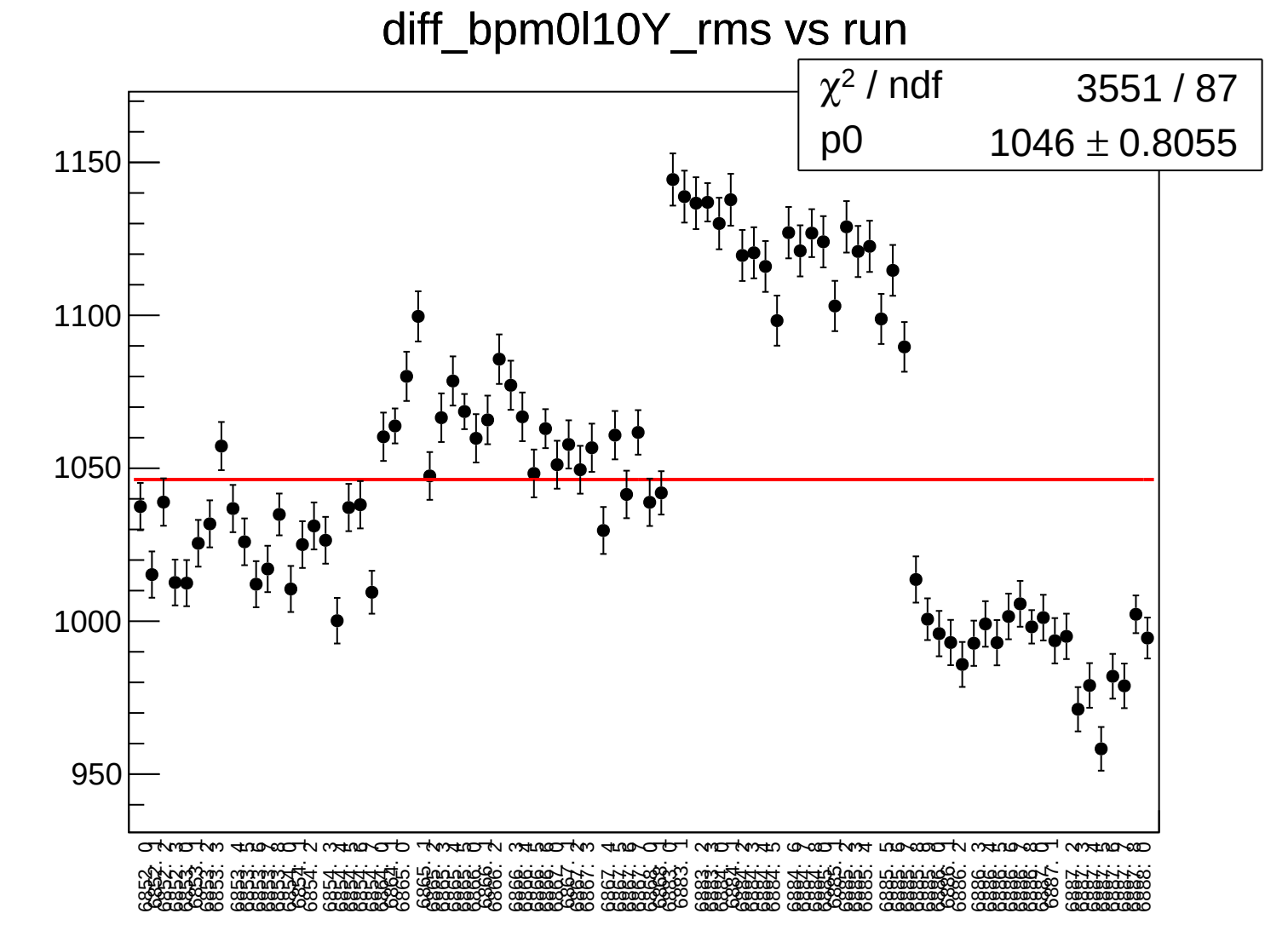

diff_bpm0l10X_mean vs run
χ² / ndf 79.87 / 87
p0 −5.056 ± 7.712
200
100
0
−100
−200
pull
Entries 88
Mean −338.2
Std Dev 0
2
1
0
−1
−2

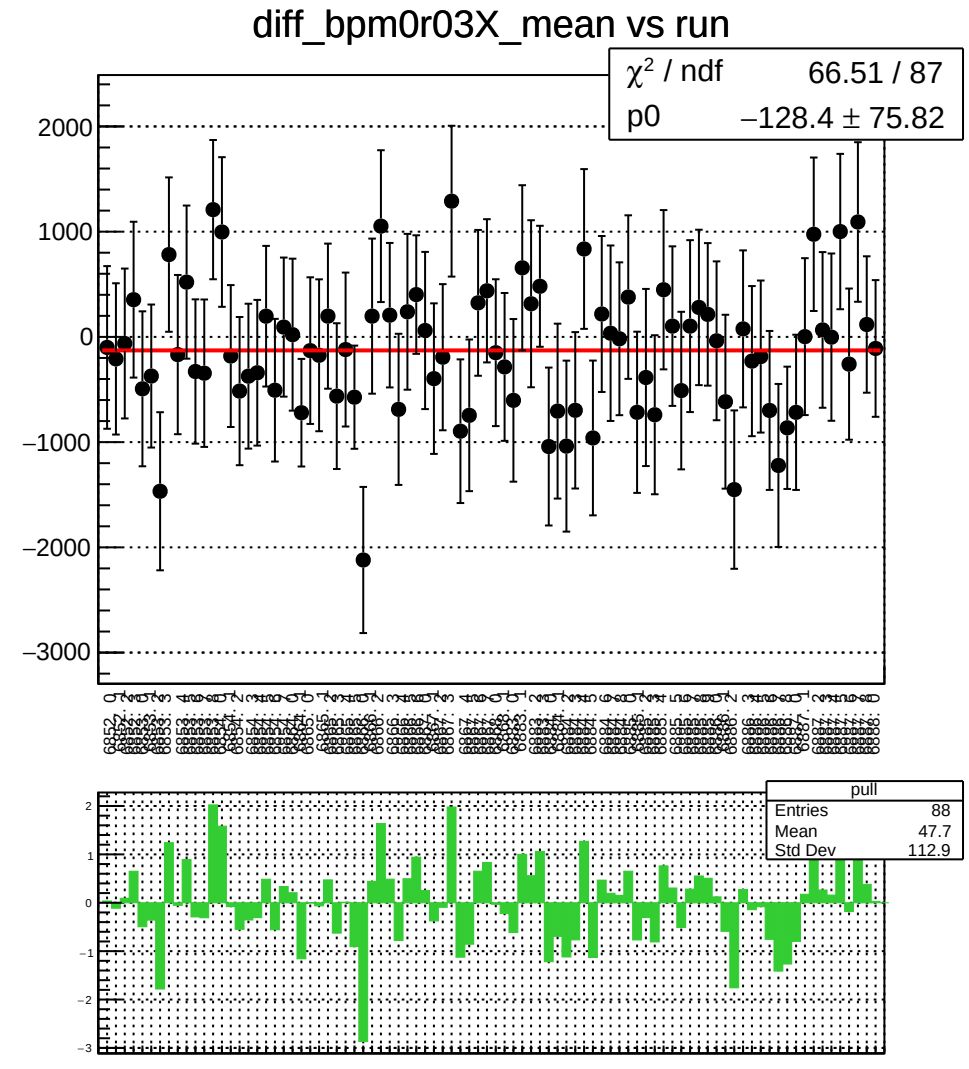

pull1D
Entries 88
Mean −0.007459
Std Dev 0.9527
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

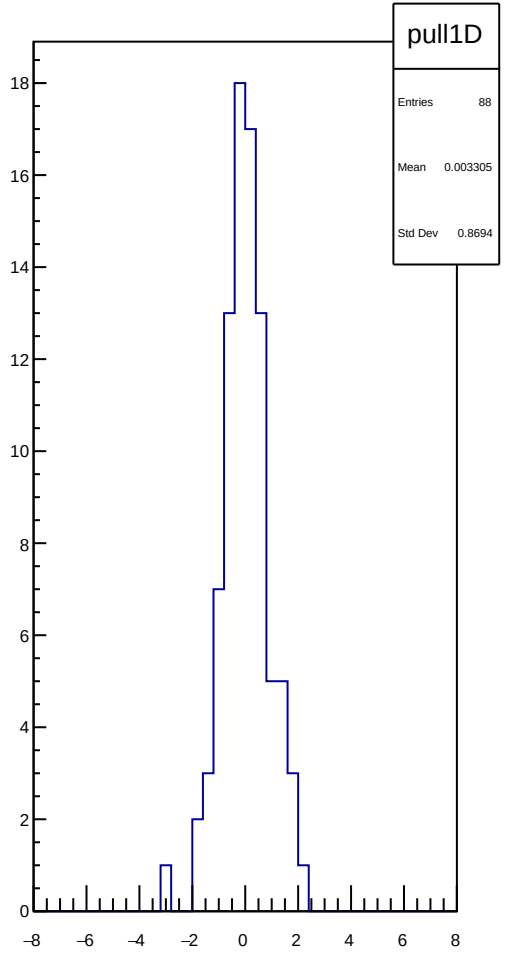

diff_bpm0l10X_rms vs run
χ² / ndf 1.146e+04 / 87
p0 7067 ± 5.453
8500
8000
7500
7000
6500
6000
5500

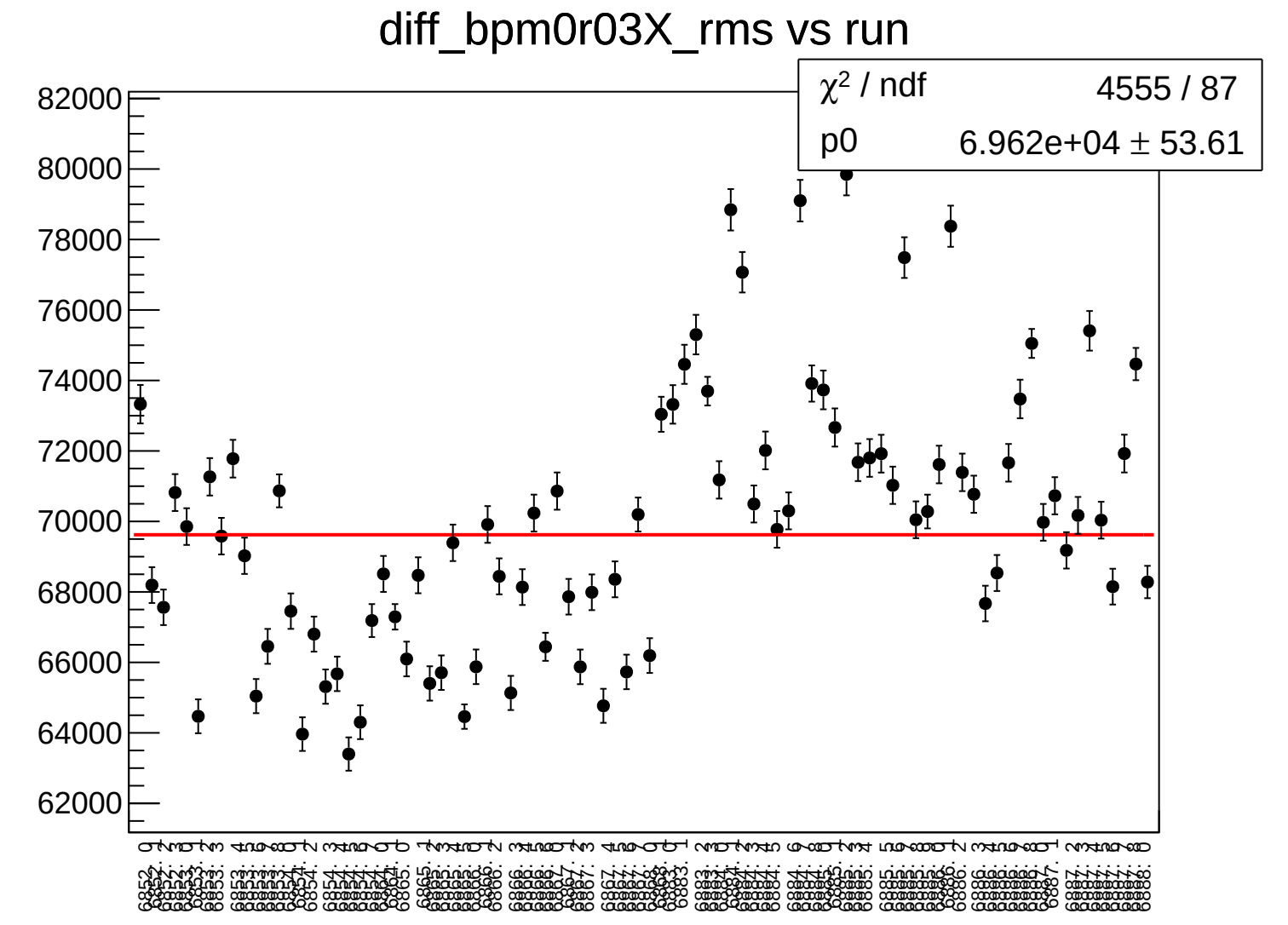

diff_bpm0l10Y_mean vs run
χ² / ndf 83.23 / 87
p0 0.4412 ± 1.139
pull
Entries 88
Mean 1296
Std Dev 0

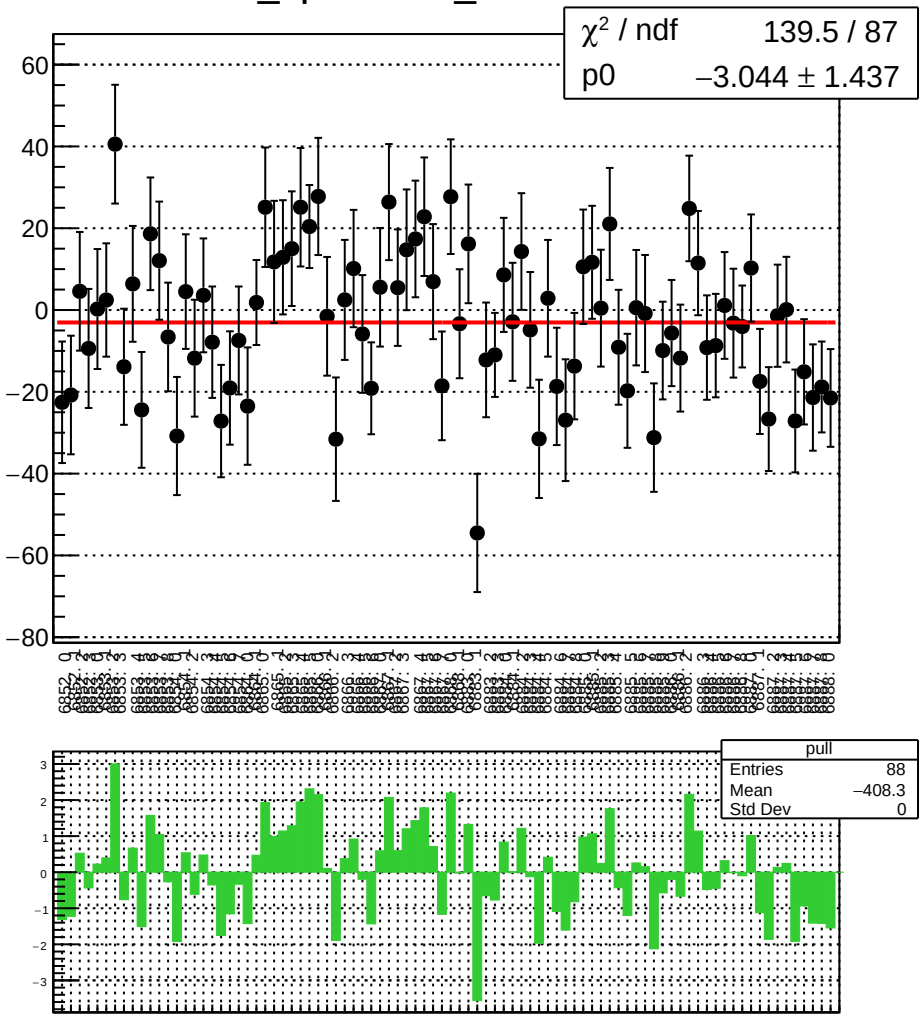

pull1D
Entries 88
Mean −0.002338
Std Dev 0.9725

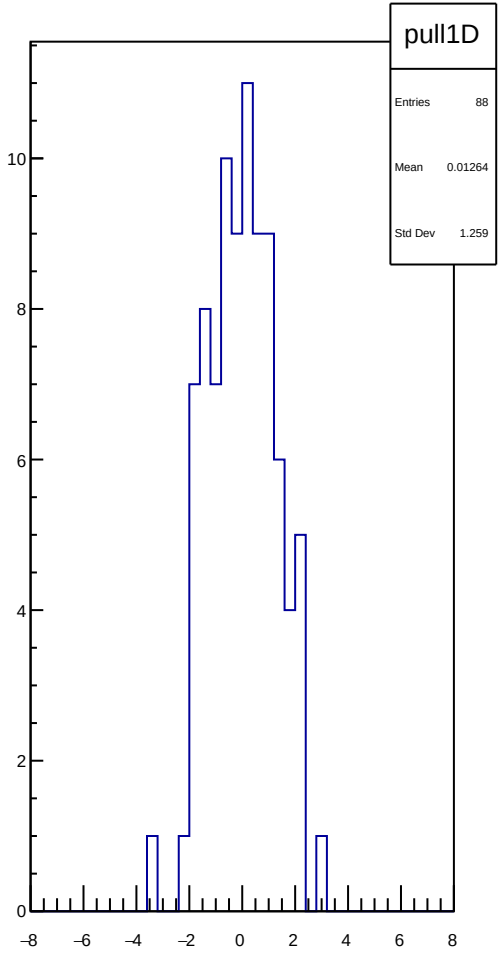

diff_bpm0l10Y_rms vs run
χ² / ndf 3551 / 87
p0 1046 ± 0.8055
1150
1100
1050
1000
950

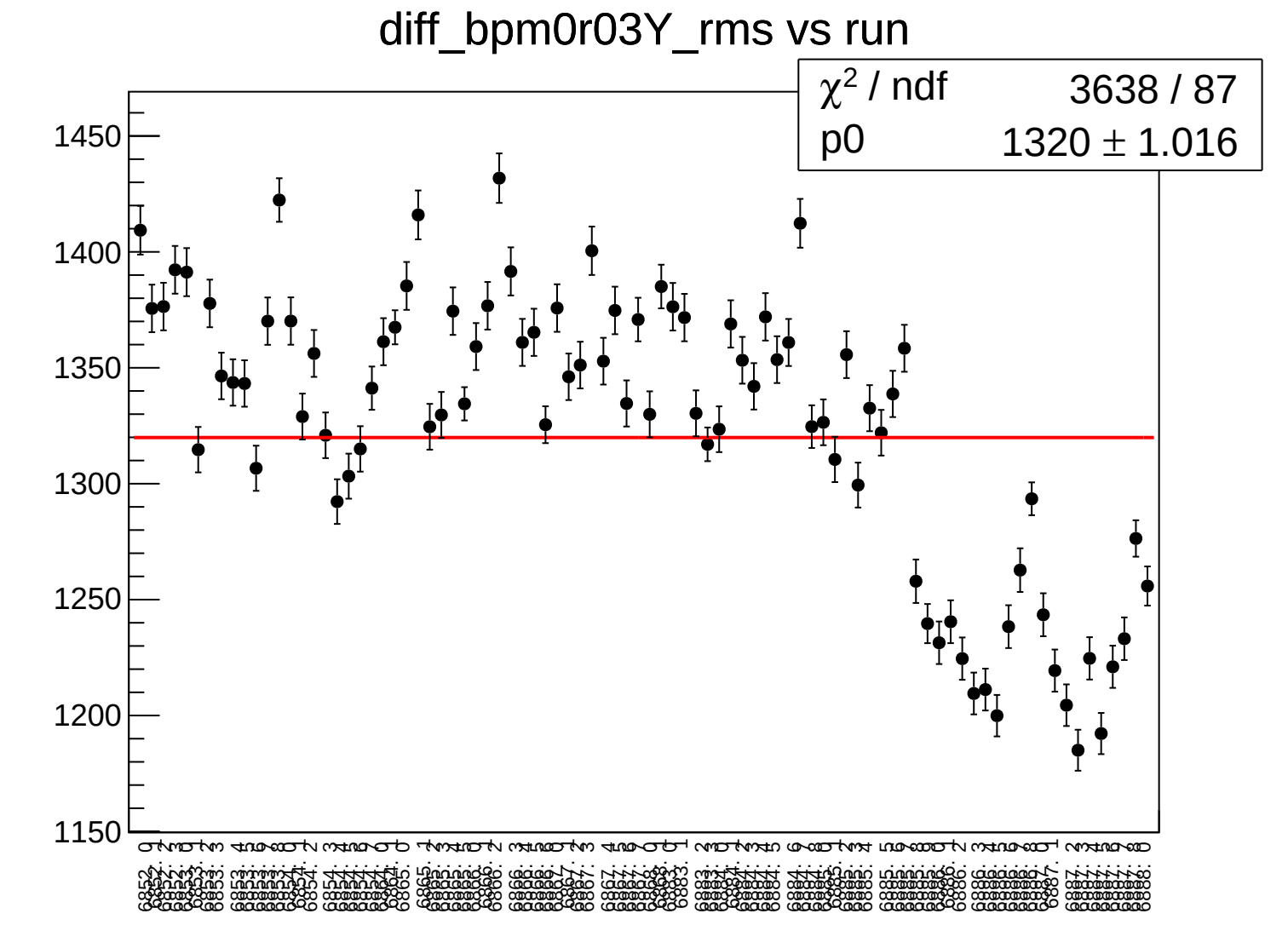

diff_bpm0r03X_mean vs run
χ² / ndf 66.51 / 87
p0 −128.4 ± 75.82
pull
Entries 88
Mean 47.7
Std Dev 112.9

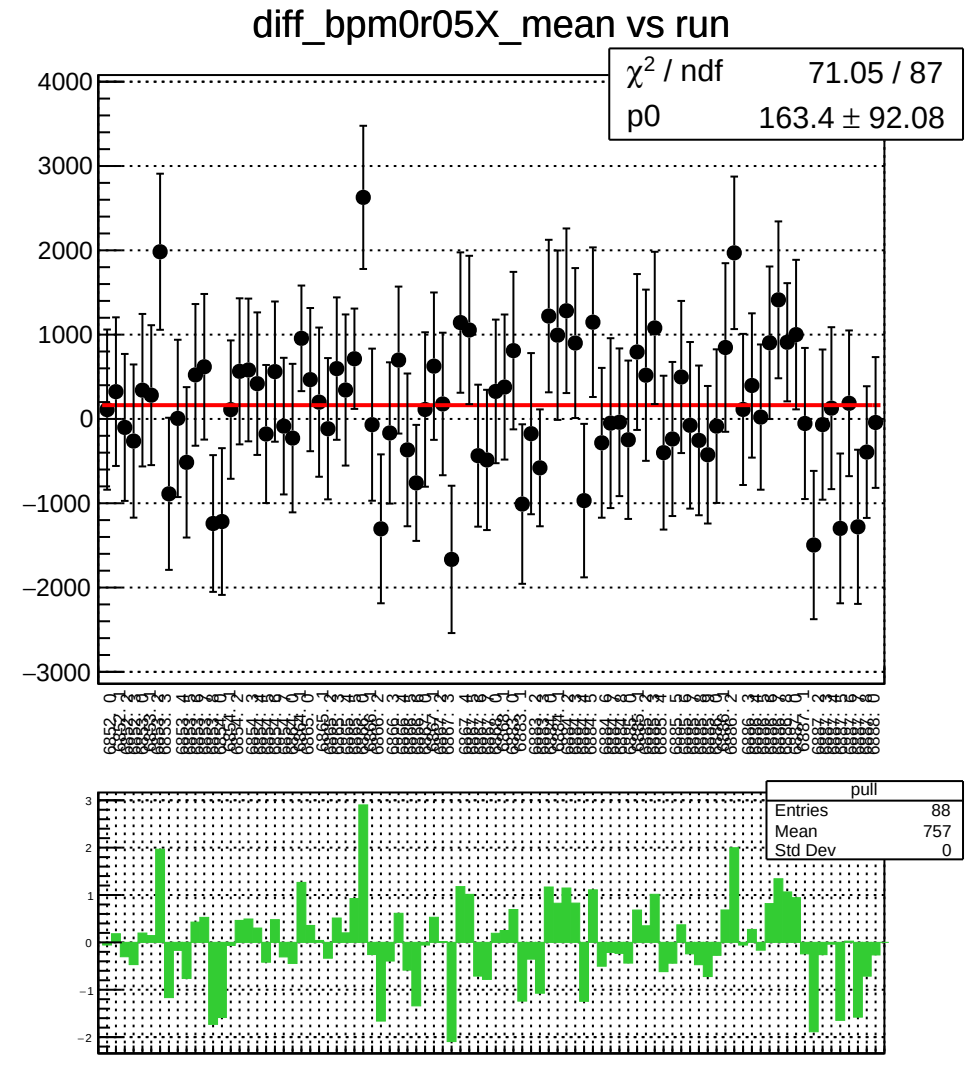

pull1D
Entries 88
Mean 0.003305
Std Dev 0.8694

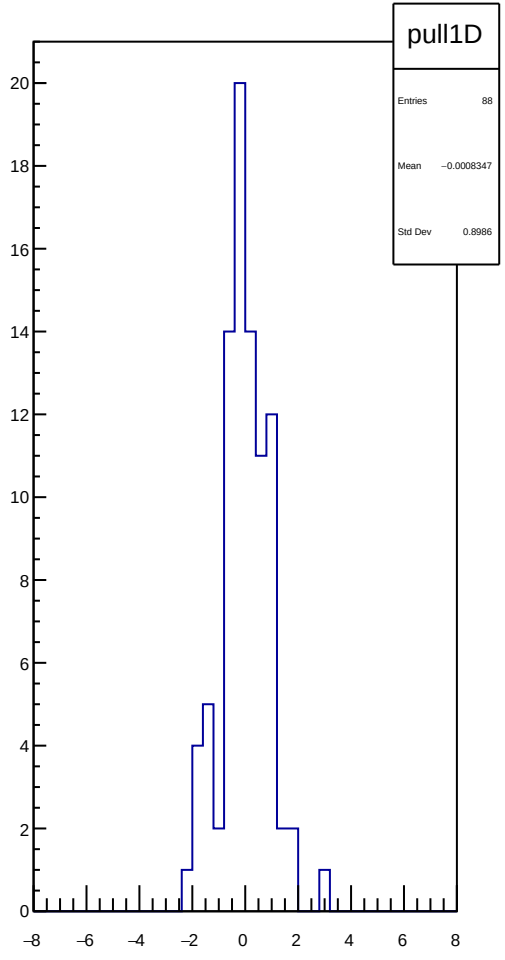

diff_bpm0r03X_rms vs run
χ² / ndf 4555 / 87
p0 6.962e+04 ± 53.61
82000
80000
78000
76000
74000
72000
70000
68000
66000
64000
62000

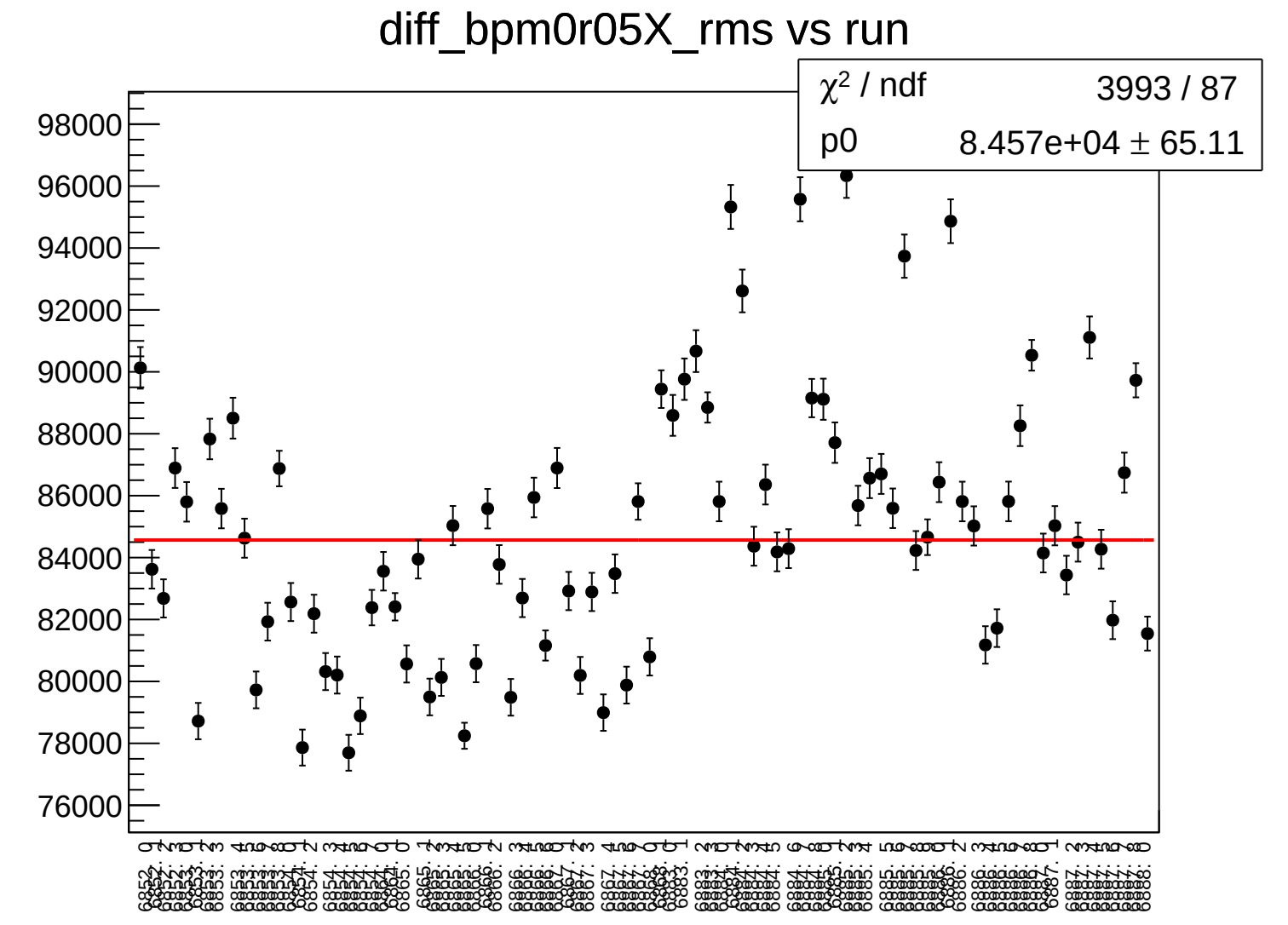

diff_bpm0r03Y_mean vs run
χ² / ndf 139.5 / 87
p0 −3.044 ± 1.437
pull
Entries 88
Mean −408.3
Std Dev 0

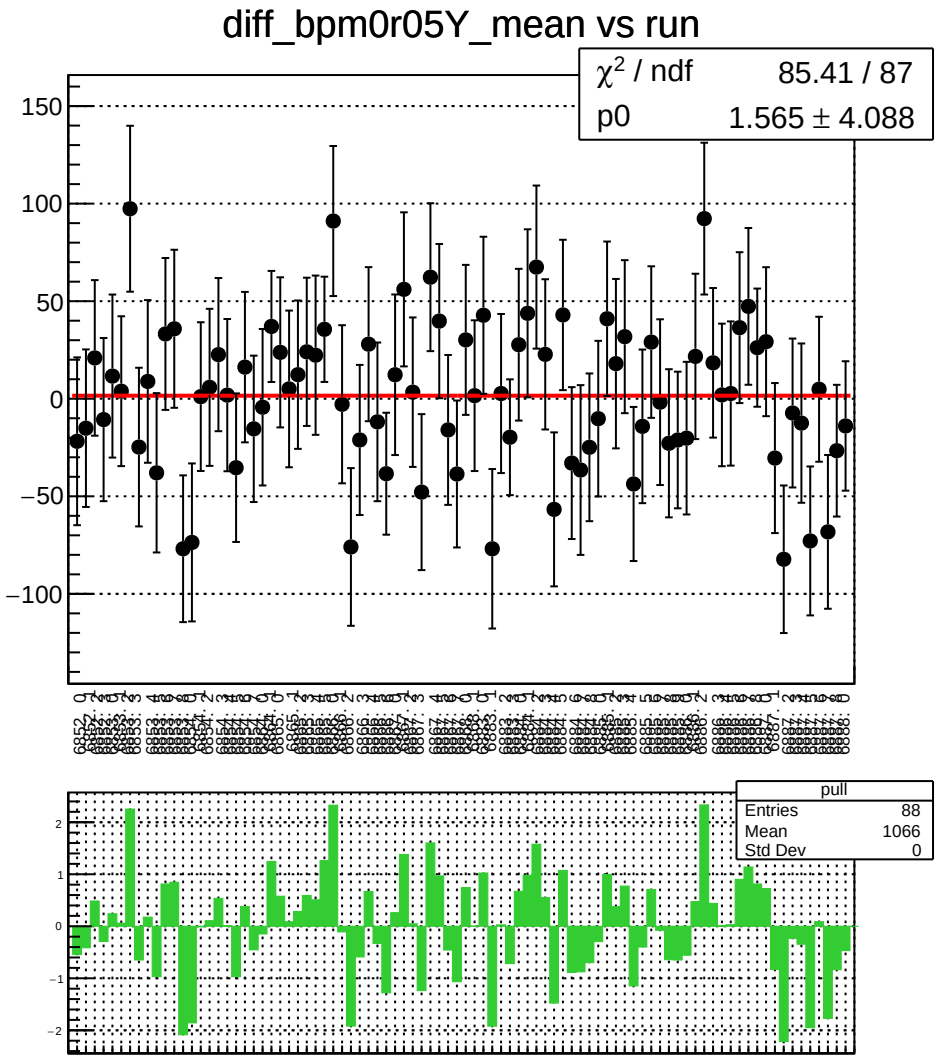

pull1D
Entries 88
Mean 0.01264
Std Dev 1.259

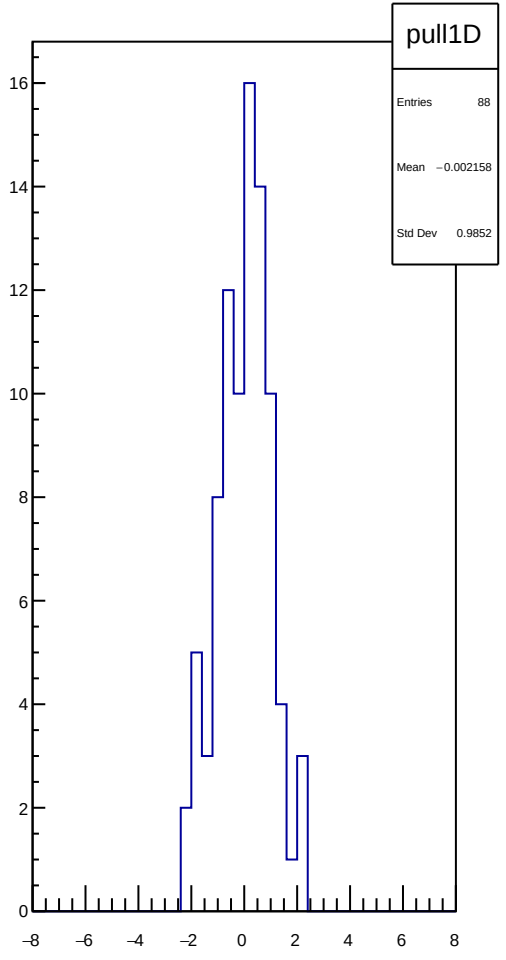

diff_bpm0r03Y_rms vs run
χ² / ndf 3638 / 87
p0 1320 ± 1.016
1450
1400
1350
1300
1250
1200
1150

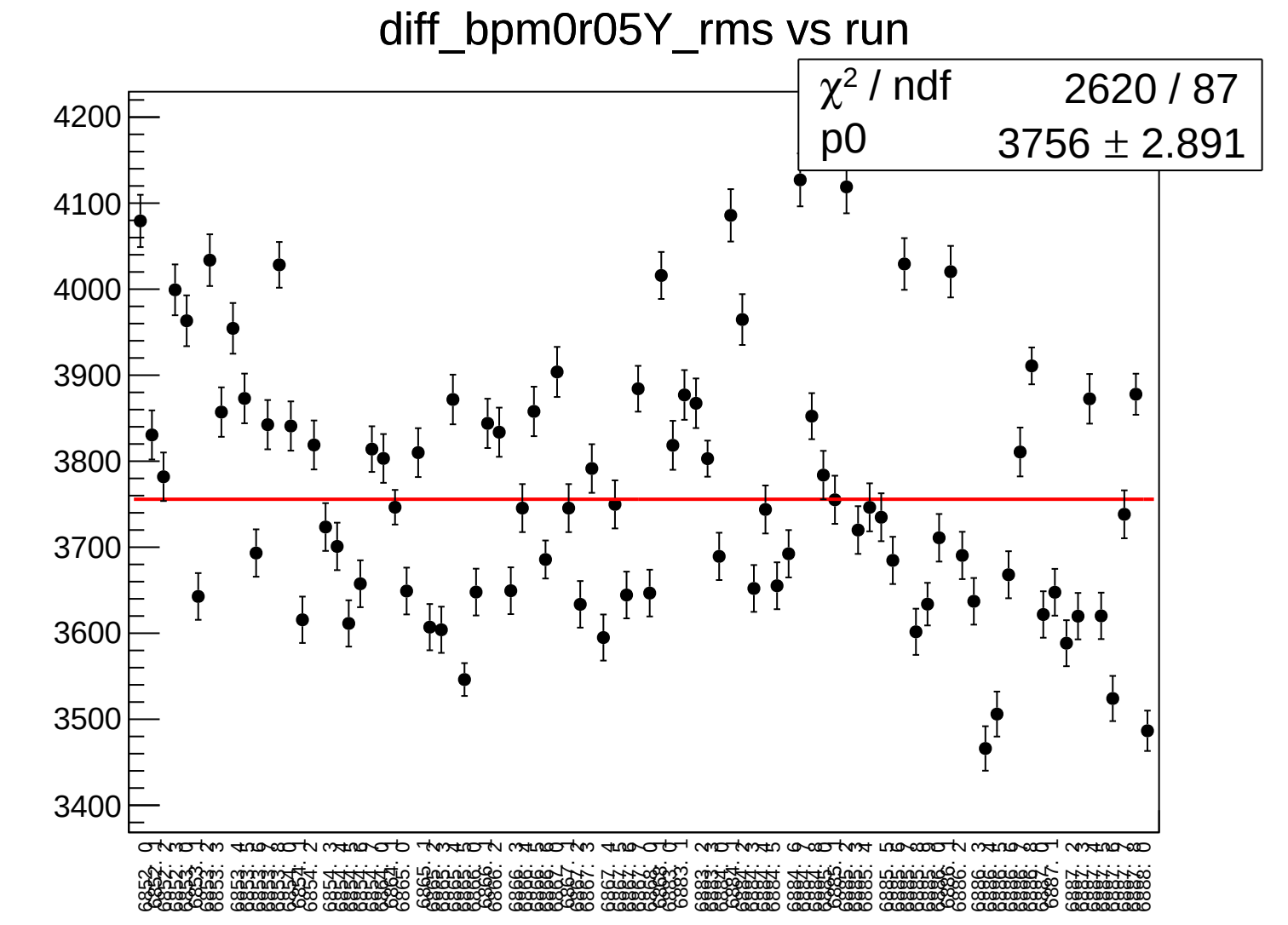

diff_bpm0r05X_mean vs run
χ² / ndf 71.05 / 87
p0 163.4 ± 92.08
pull
Entries 88
Mean 757
Std Dev 0

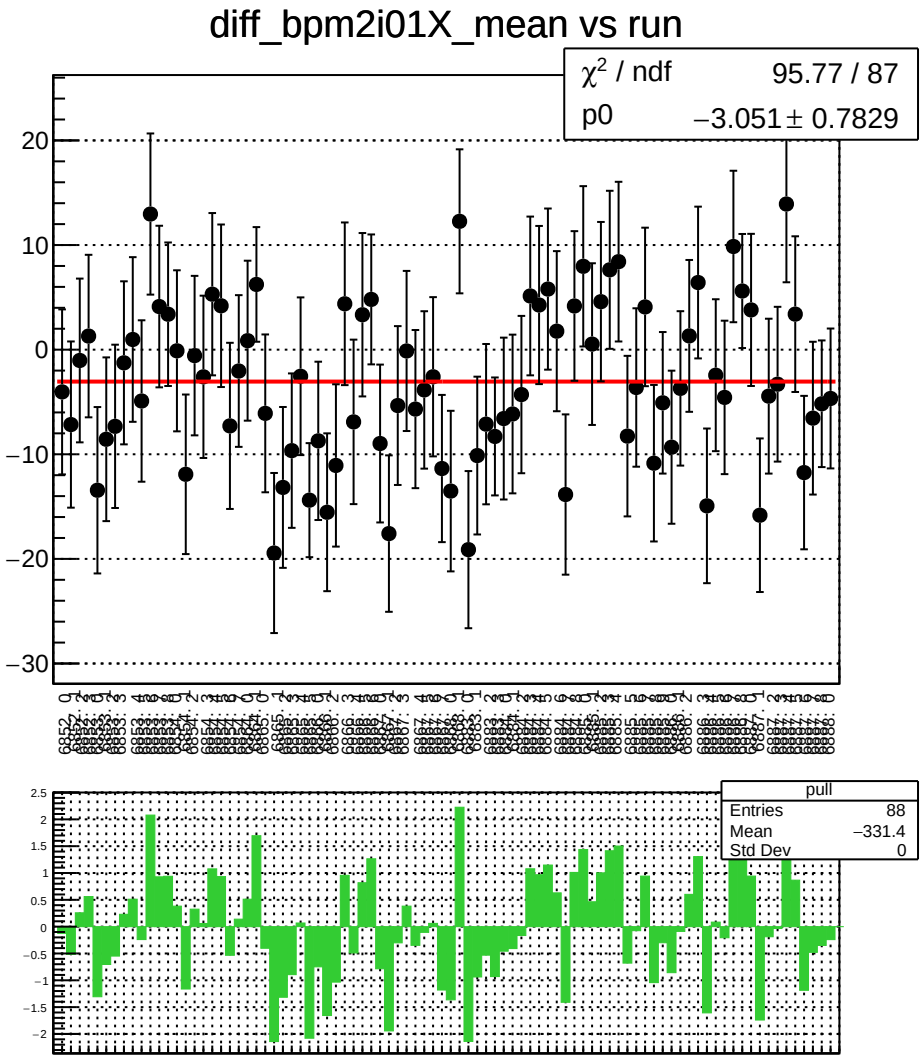

pull1D
Entries 88
Mean −0.0008347
Std Dev 0.8986

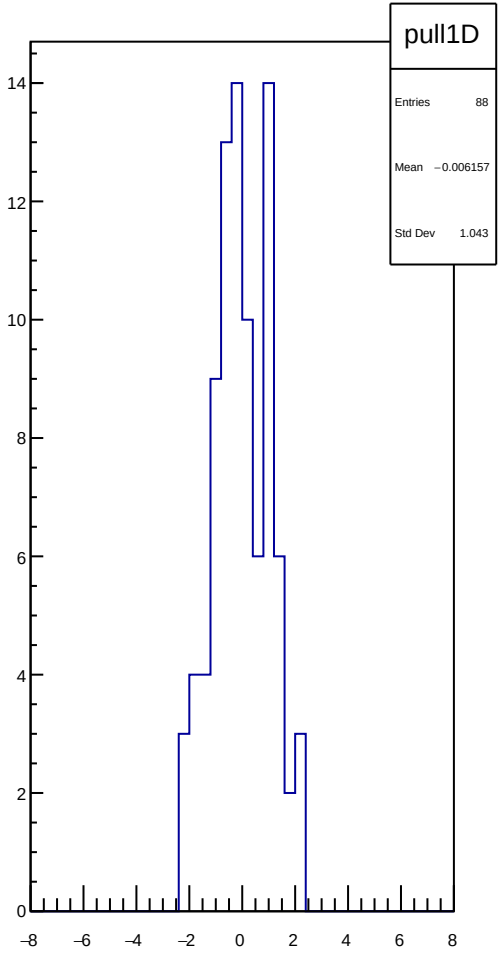

diff_bpm0r05X_rms vs run
χ² / ndf 3993 / 87
p0 8.457e+04 ± 65.11
98000
96000
94000
92000
90000
88000
86000
84000
82000
80000
78000
76000

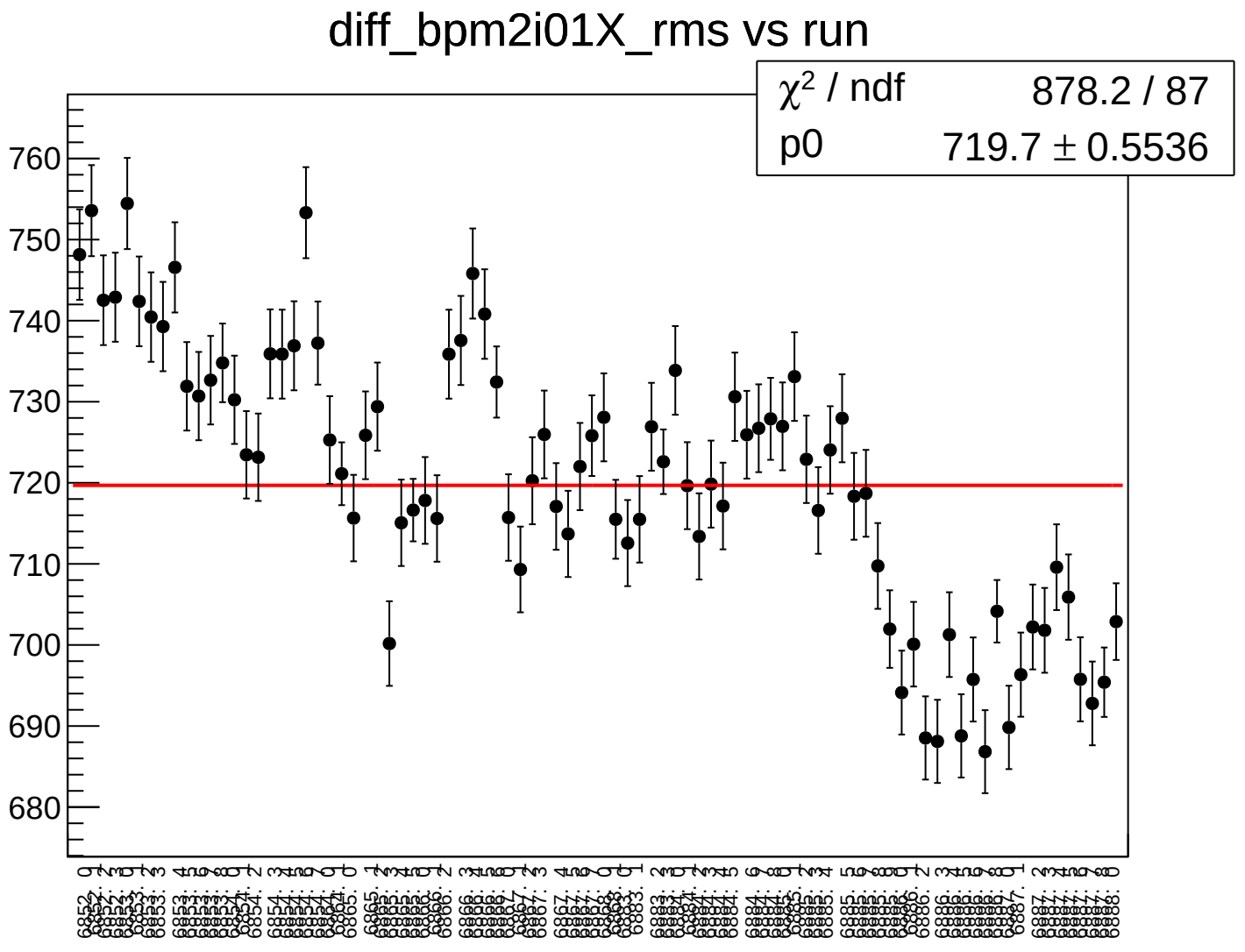

diff_bpm0r05Y_mean vs run
χ² / ndf 85.41 / 87
p0 1.565 ± 4.088
150
100
50
0
−50
−100
pull
Entries 88
Mean 1066
Std Dev 0
2
1
0
−1
−2

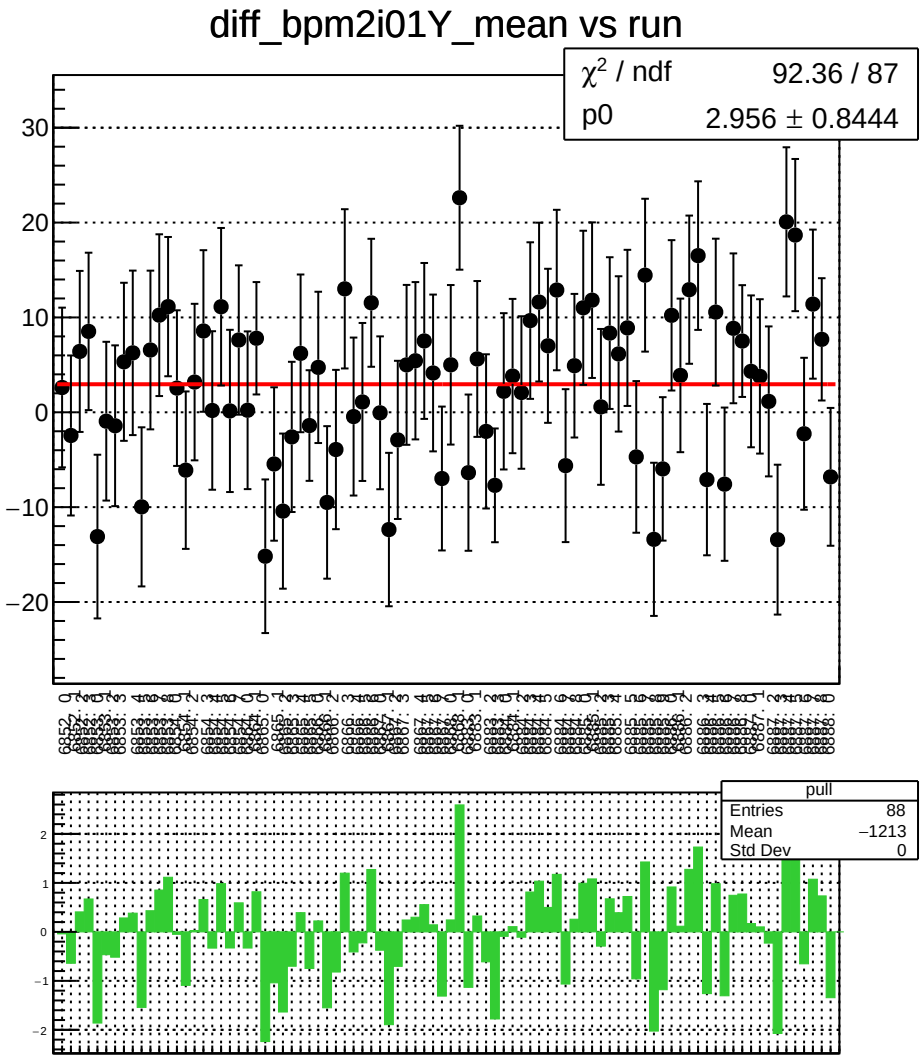

pull1D
Entries 88
Mean −0.002158
Std Dev 0.9852
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

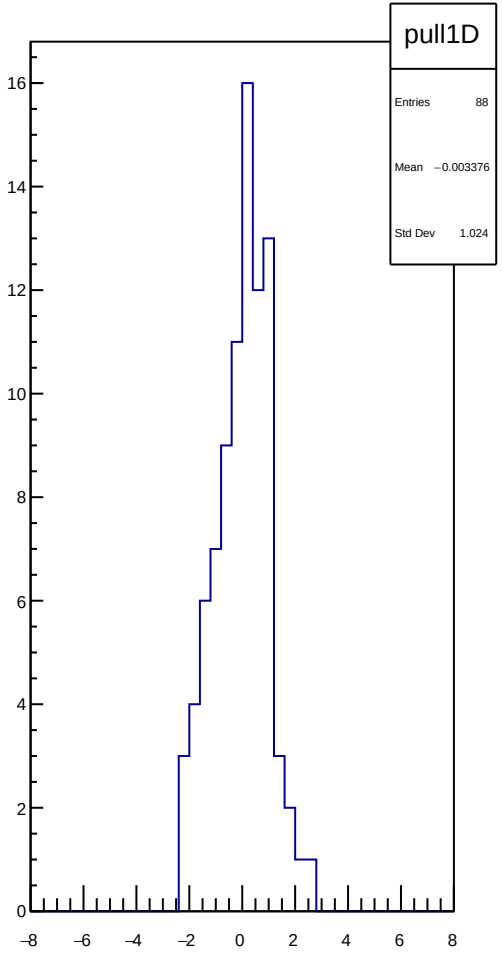

diff_bpm0r05Y_rms vs run
χ² / ndf 2620 / 87
p0 3756 ± 2.891
4200
4100
4000
3900
3800
3700
3600
3500
3400

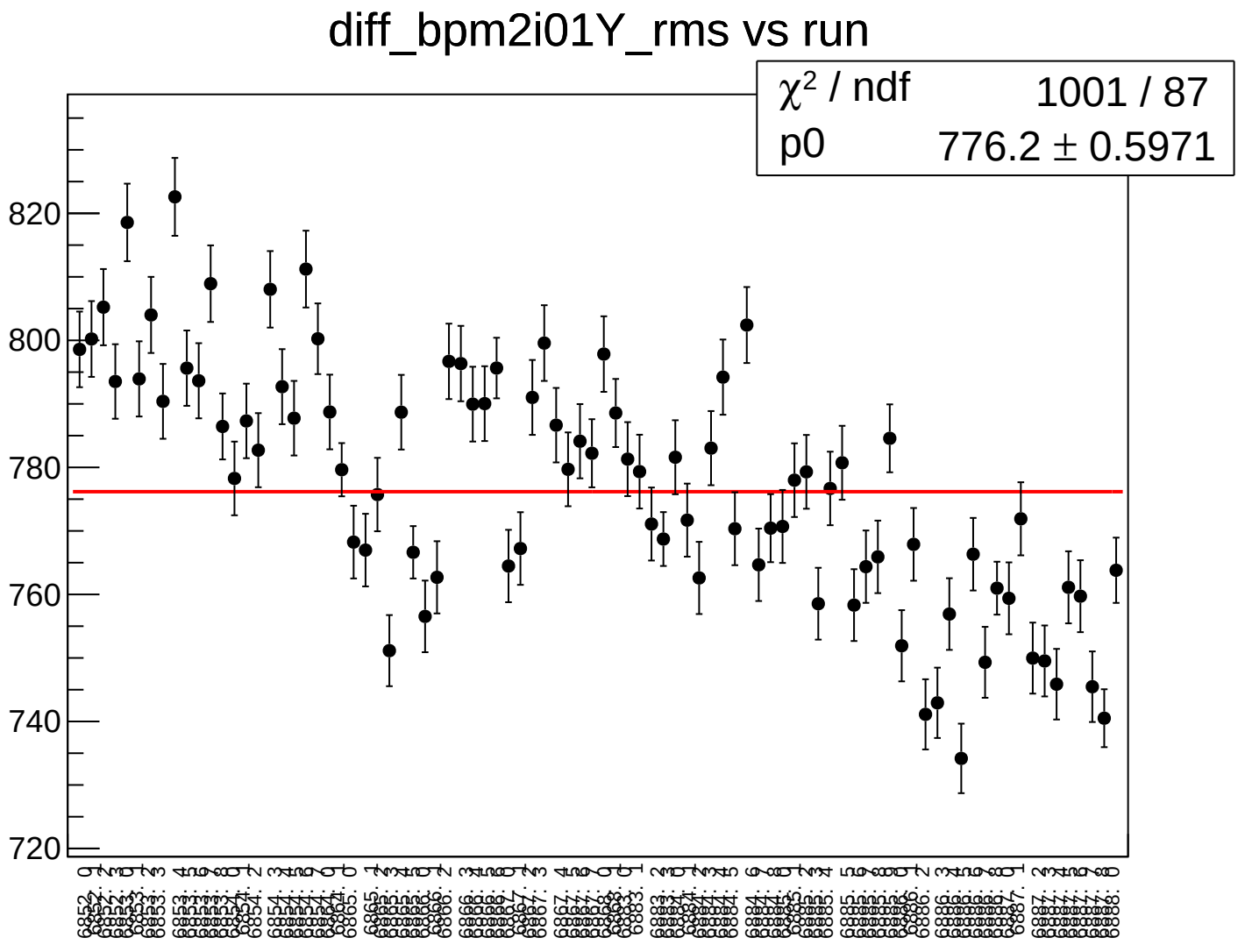

diff_bpm2i01X_mean vs run
χ² / ndf 95.77 / 87
p0 −3.051 ± 0.7829
pull
Entries 88
Mean −331.4
Std Dev 0

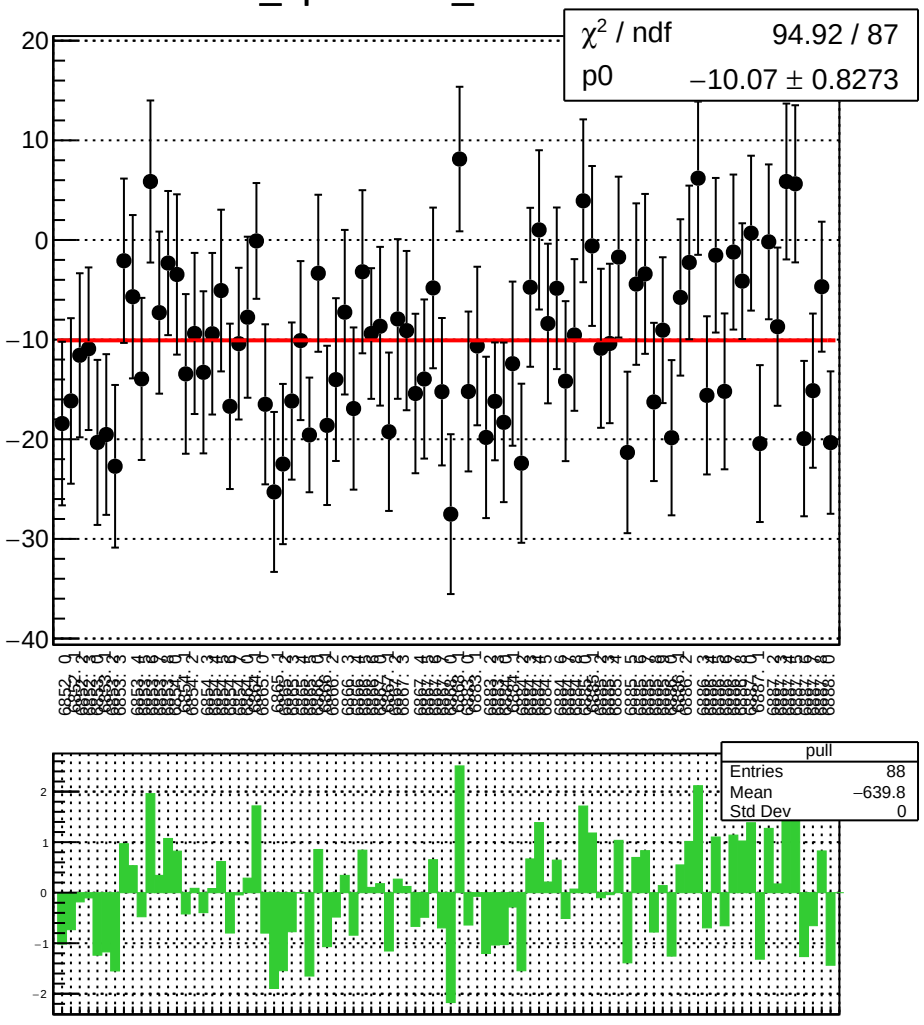

pull1D
Entries 88
Mean −0.006157
Std Dev 1.043

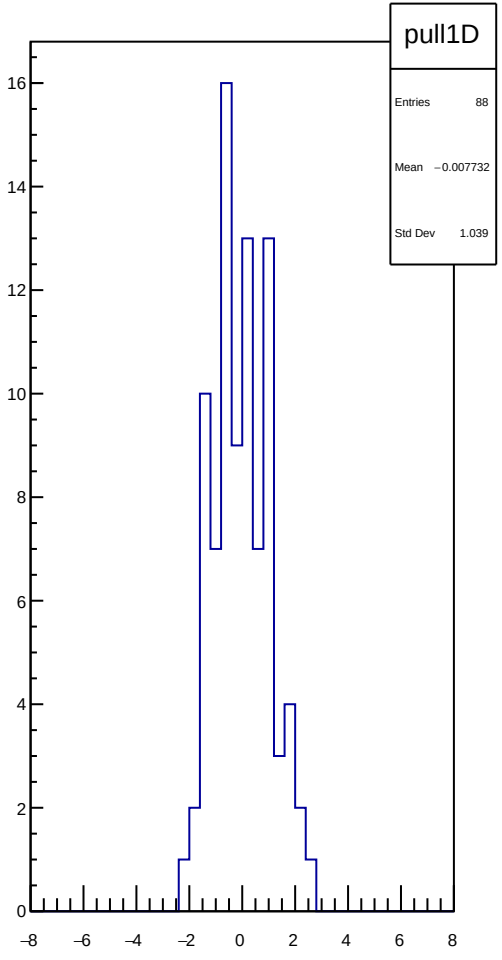

diff_bpm2i01X_rms vs run
χ² / ndf 878.2 / 87
p0 719.7 ± 0.5536
760
750
740
730
720
710
700
690
680

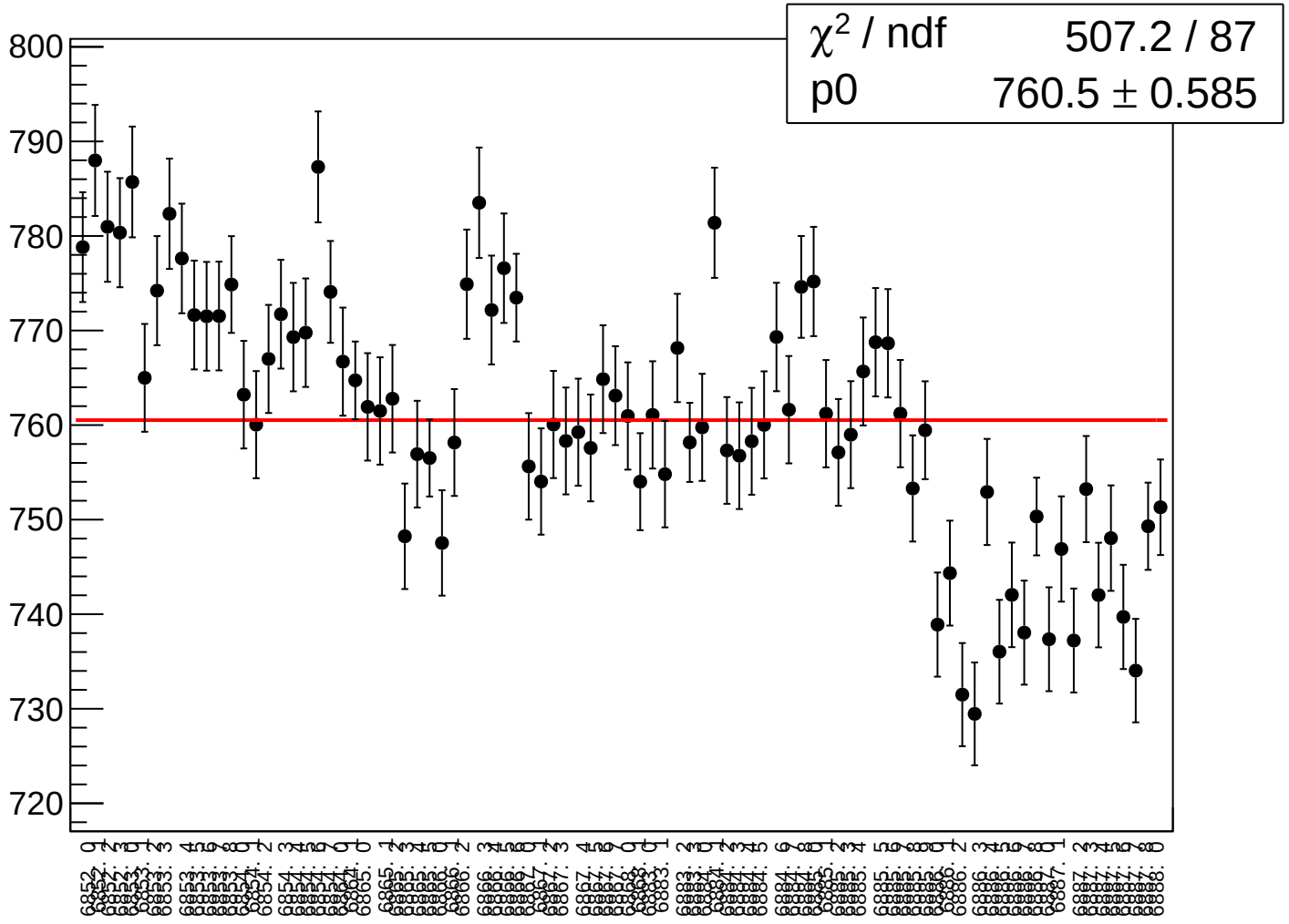

diff_bpm2i01Y_mean vs run
χ² / ndf 92.36 / 87
p0 2.956 ± 0.8444
pull
Entries 88
Mean −1213
Std Dev 0

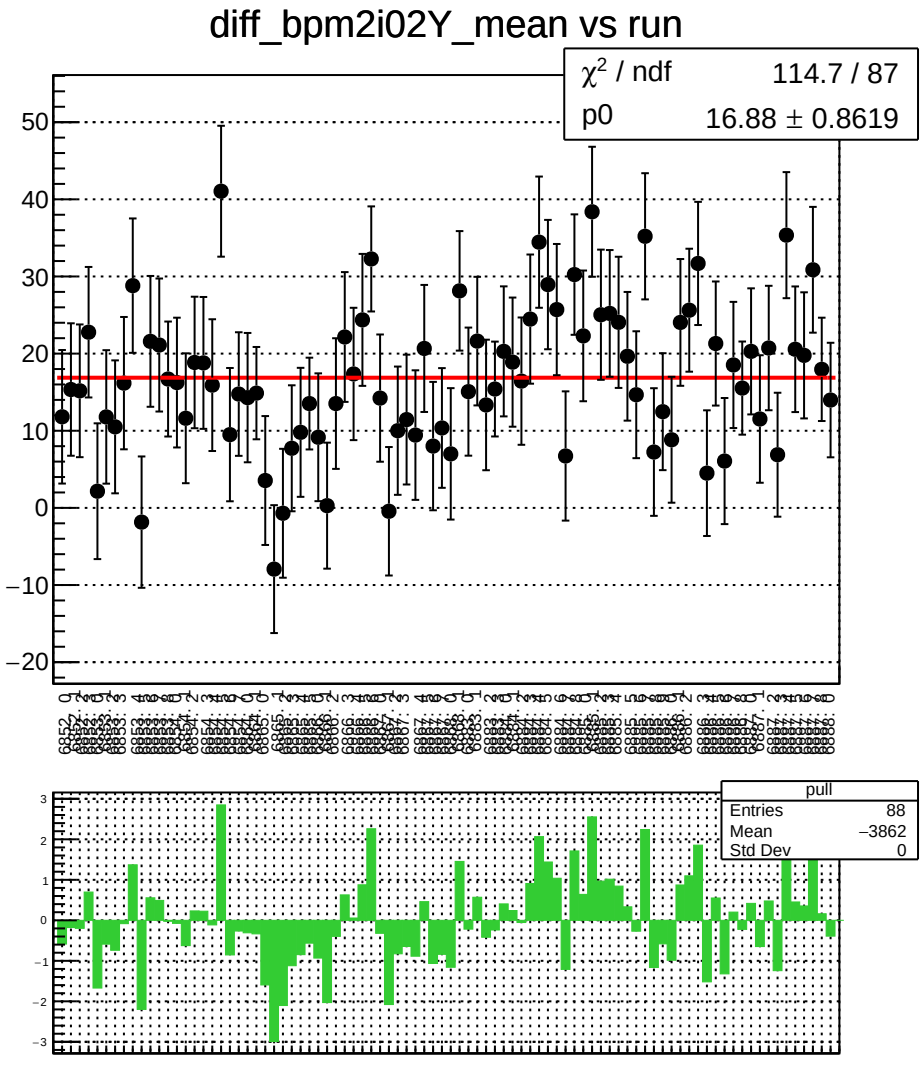

pull1D
Entries 88
Mean −0.003376
Std Dev 1.024

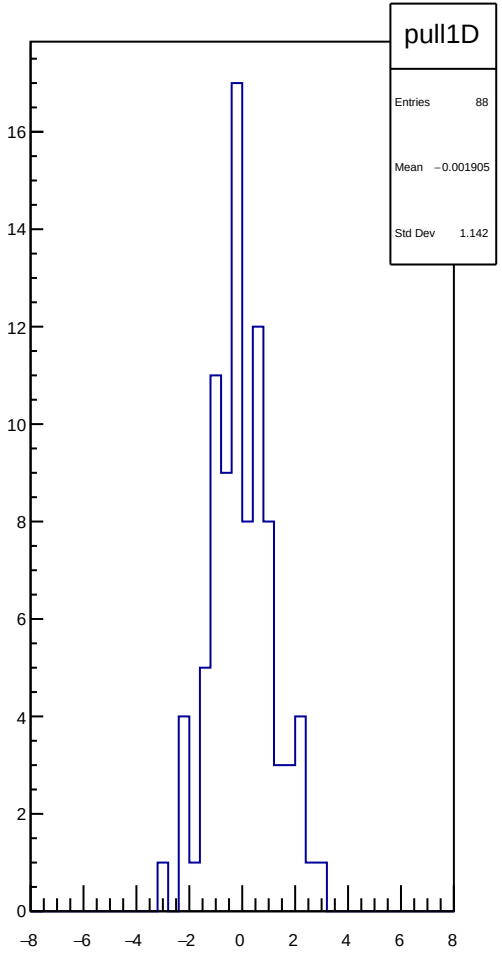

diff_bpm2i01Y_rms vs run
χ² / ndf 1001 / 87
p0 776.2 ± 0.5971
820
800
780
760
740
720

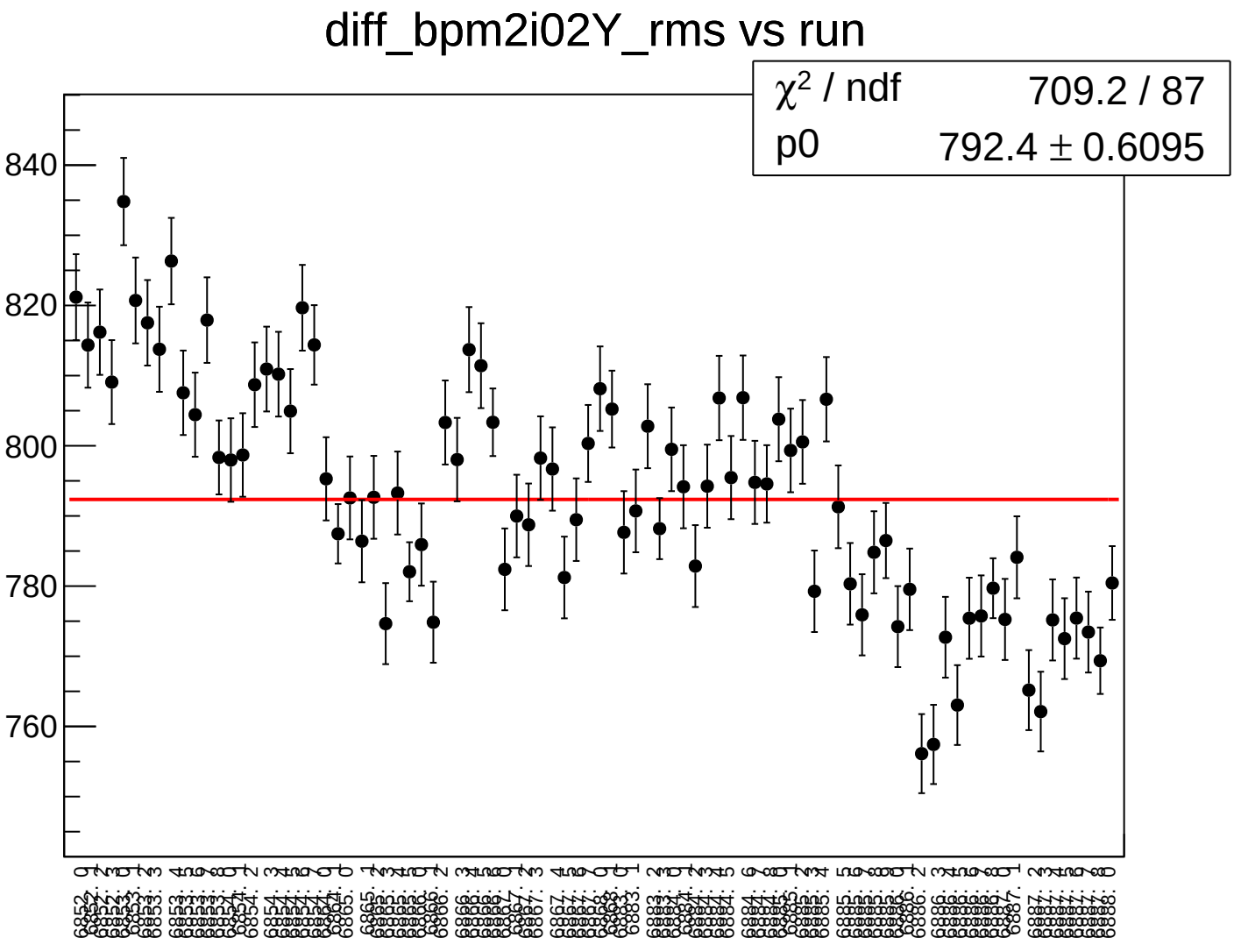

diff_bpm2i02X_mean vs run
χ² / ndf 94.92 / 87
p0 −10.07 ± 0.8273
pull
Entries 88
Mean −639.8
Std Dev 0

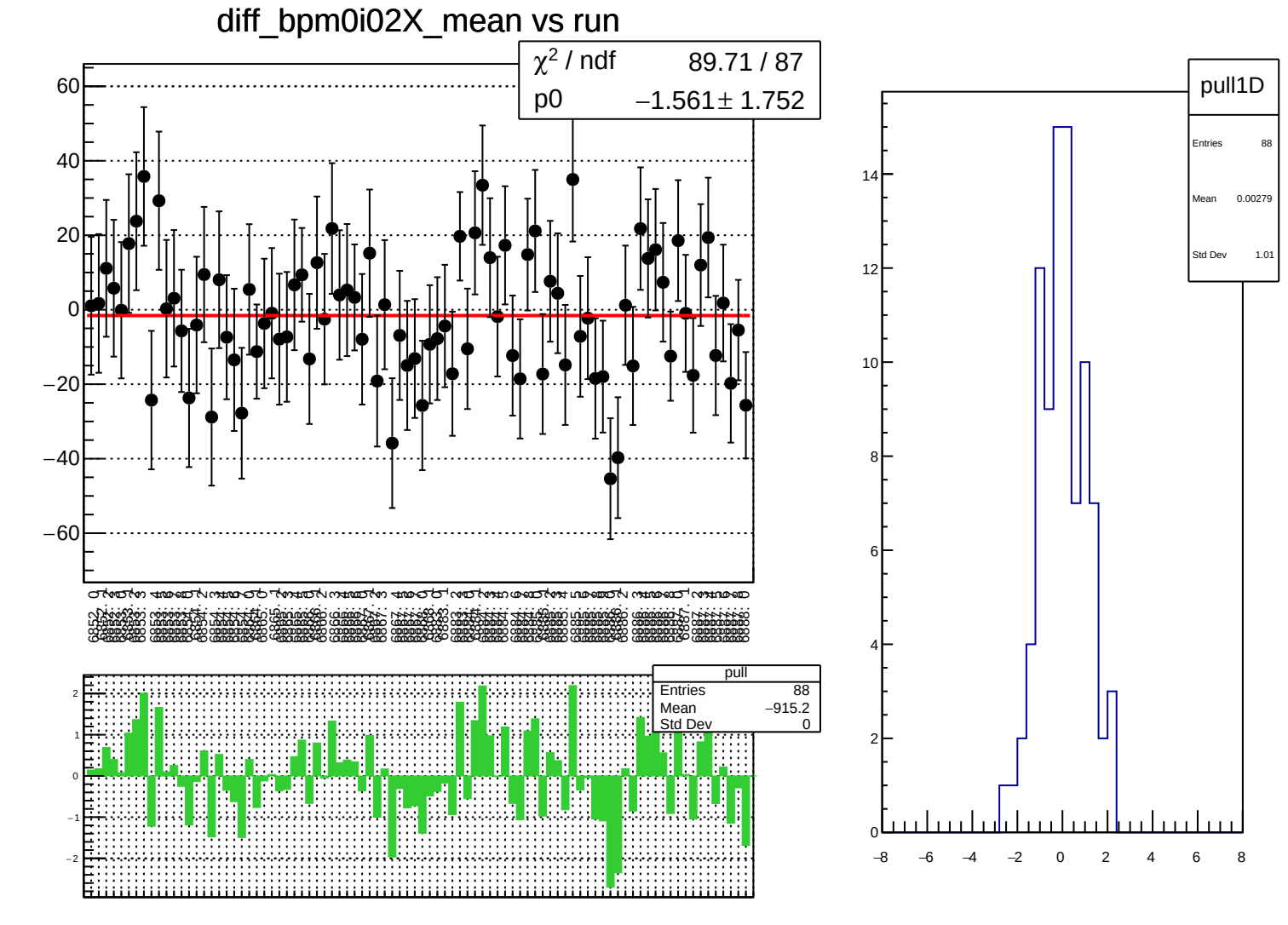

pull1D
Entries 88
Mean −0.007732
Std Dev 1.039

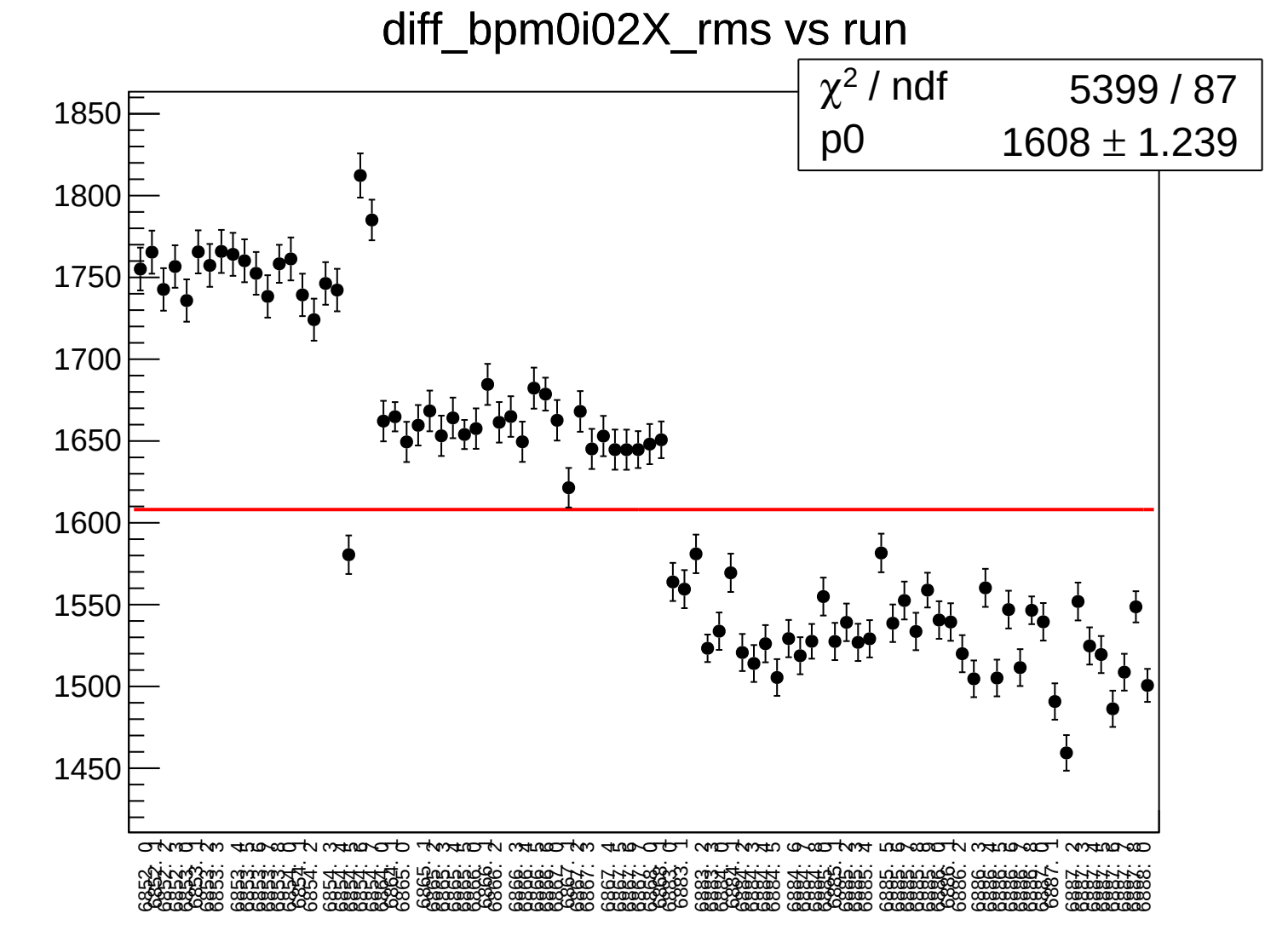

diff_bpm2i02X_rms vs run
χ² / ndf 507.2 / 87
p0 760.5 ± 0.585
800
790
780
770
760
750
740
730
720

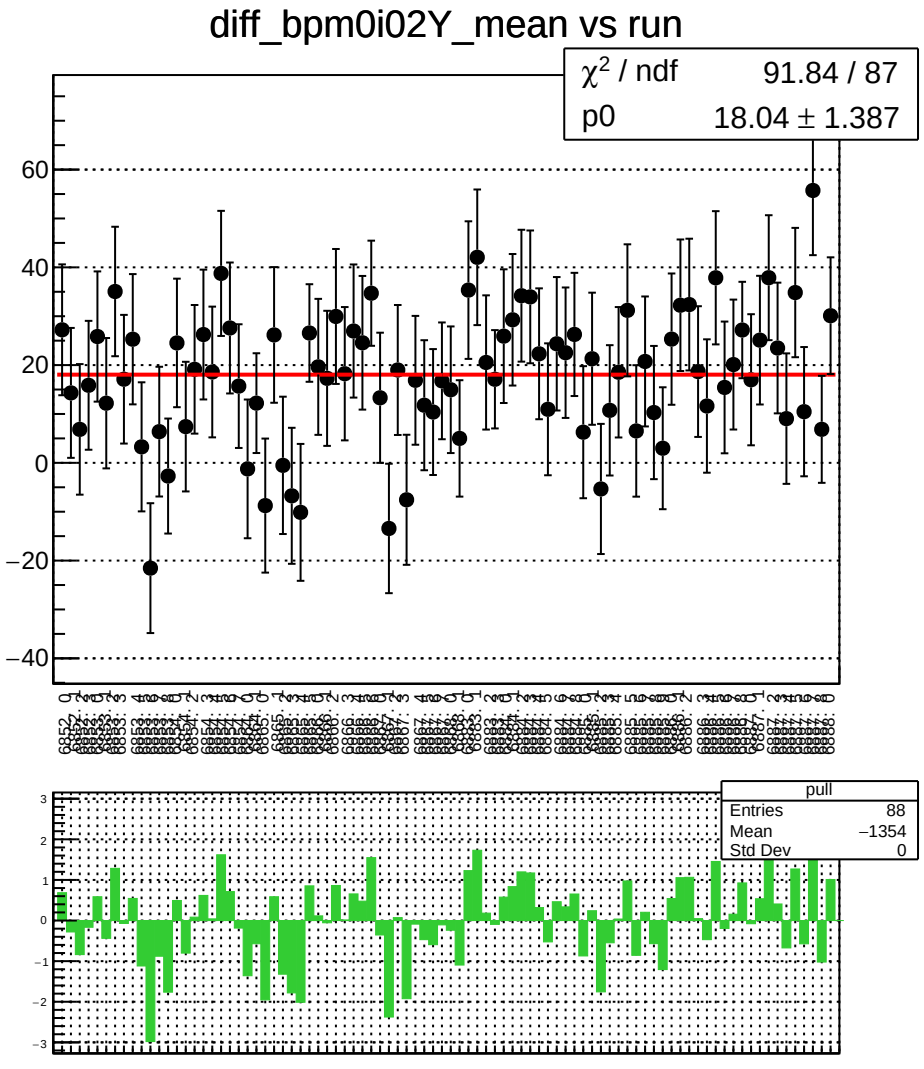

diff_bpm2i02Y_mean vs run
χ² / ndf 114.7 / 87
p0 16.88 ± 0.8619
pull
Entries 88
Mean −3862
Std Dev 0

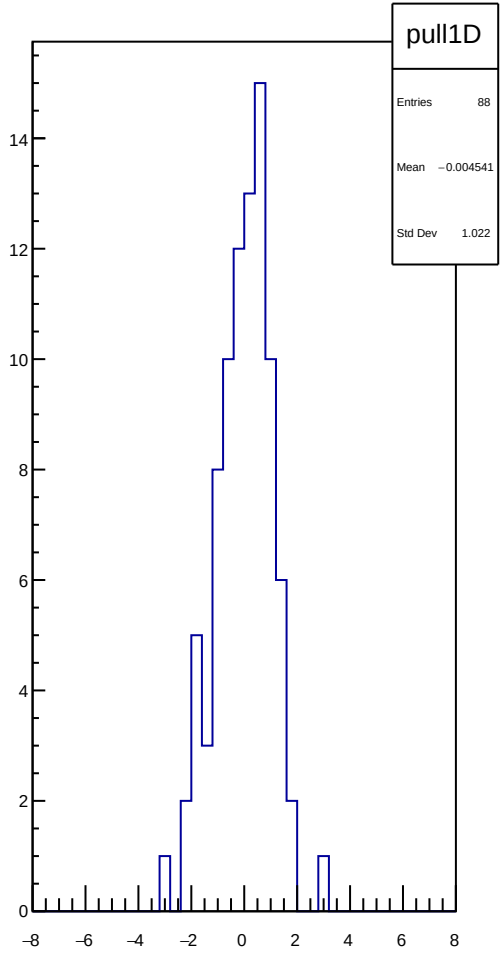

pull1D
Entries 88
Mean −0.001905
Std Dev 1.142

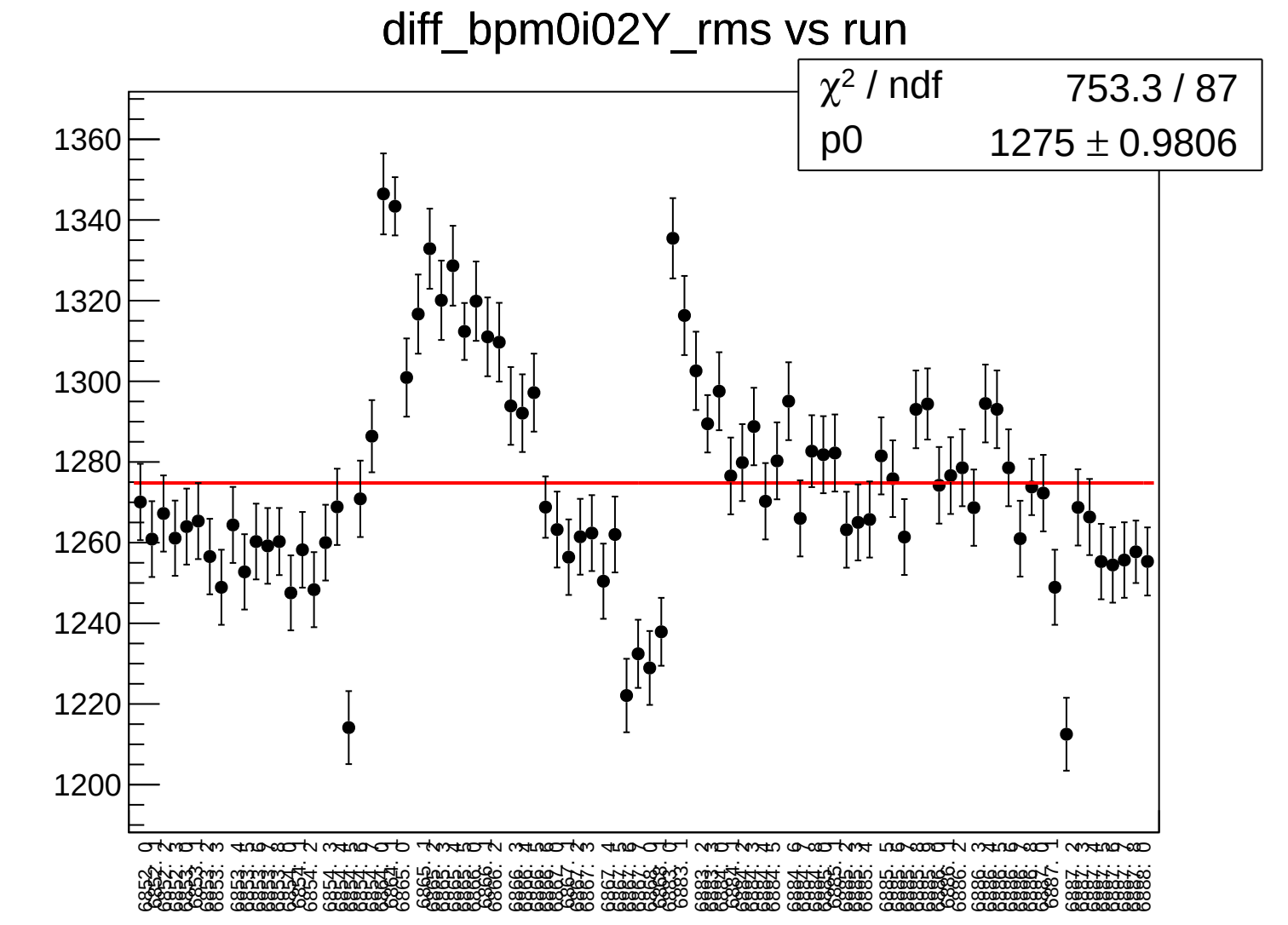

diff_bpm2i02Y_rms vs run
χ² / ndf 709.2 / 87
p0 792.4 ± 0.6095
840
820
800
780
760

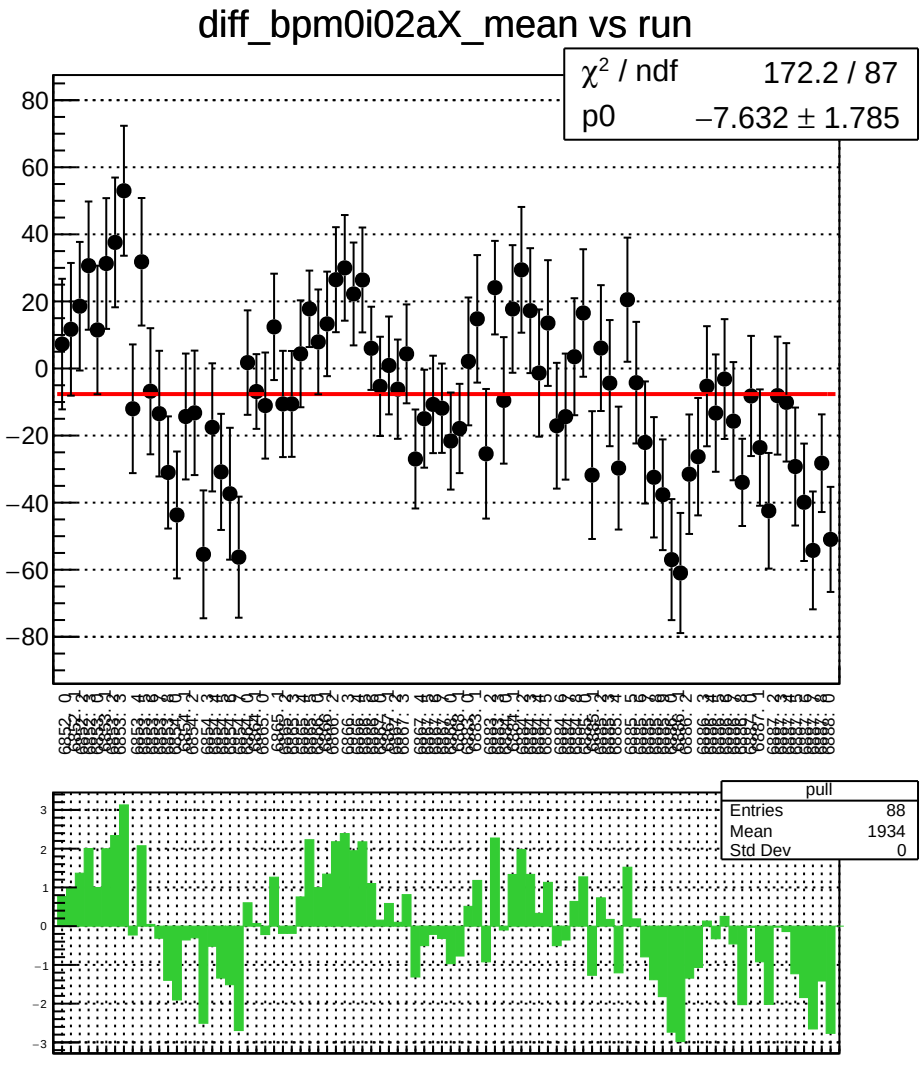

diff_bpm0i02X_mean vs run
χ² / ndf 89.71 / 87
p0 −1.561 ± 1.752
pull
Entries 88
Mean −915.2
Std Dev 0
pull1D
Entries 88
Mean 0.00279
Std Dev 1.01

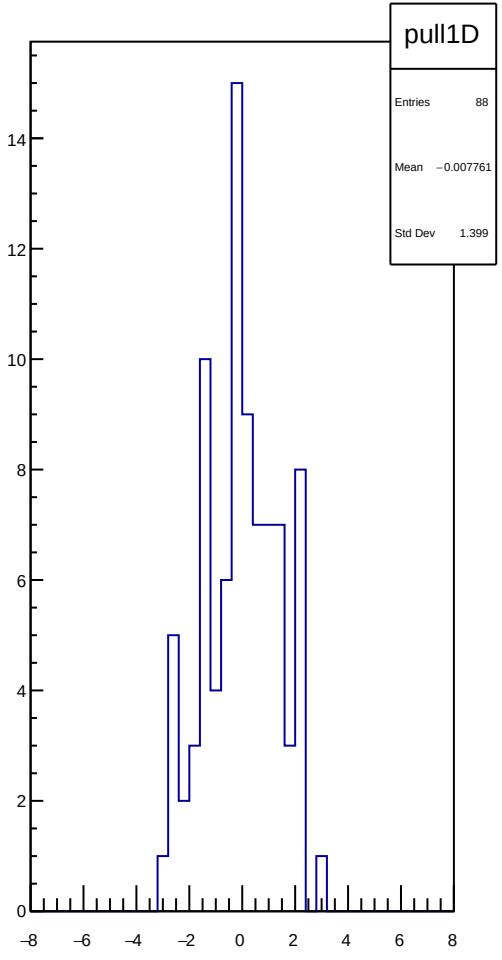

diff_bpm0i02X_rms vs run
χ² / ndf 5399 / 87
p0 1608 ± 1.239
1850
1800
1750
1700
1650
1600
1550
1500
1450

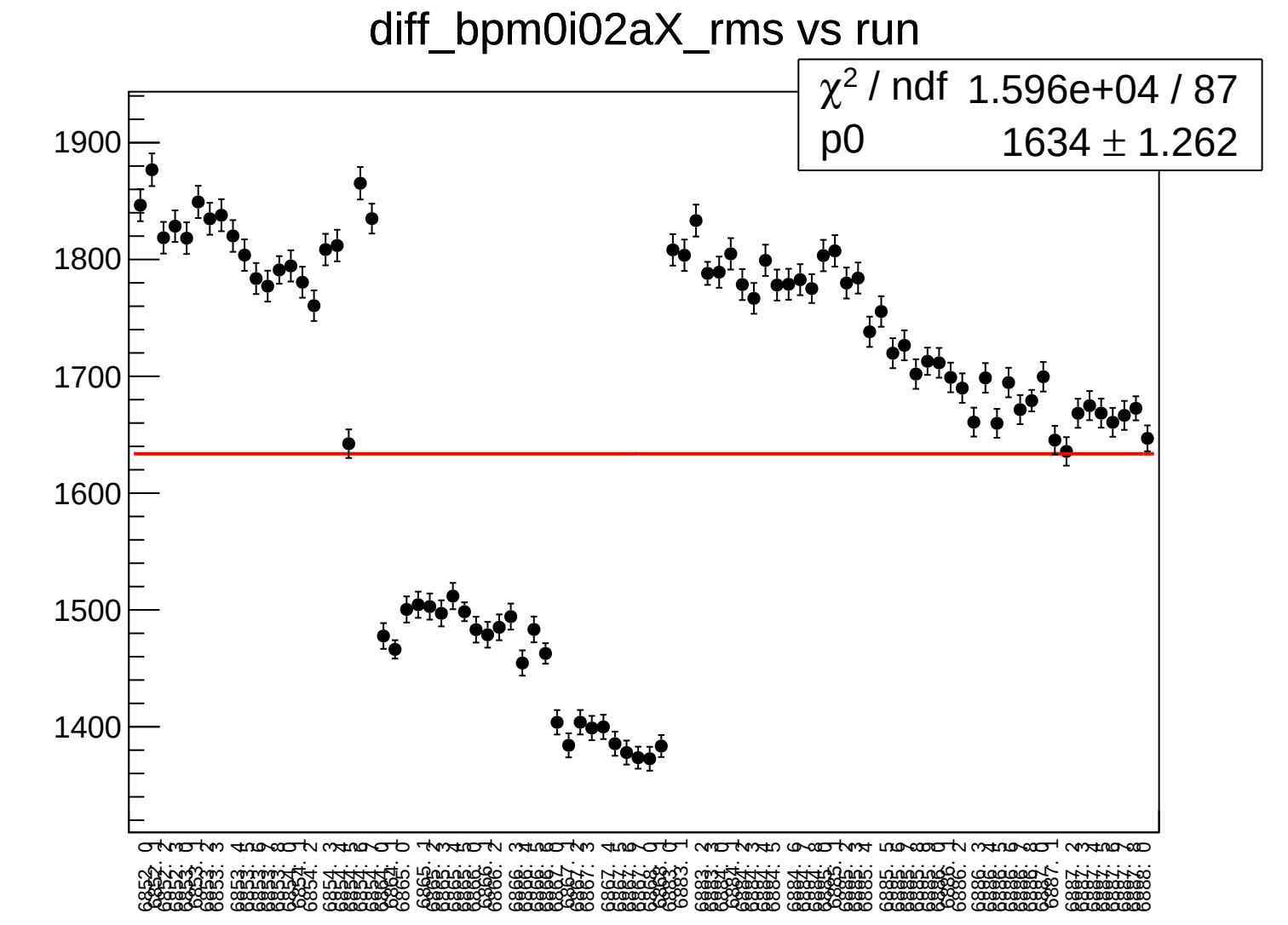

diff_bpm0i02Y_mean vs run
χ² / ndf 91.84 / 87
p0 18.04 ± 1.387
60
40
20
0
−20
−40
pull
Entries 88
Mean −1354
Std Dev 0
3
2
1
0
−1
−2
−3

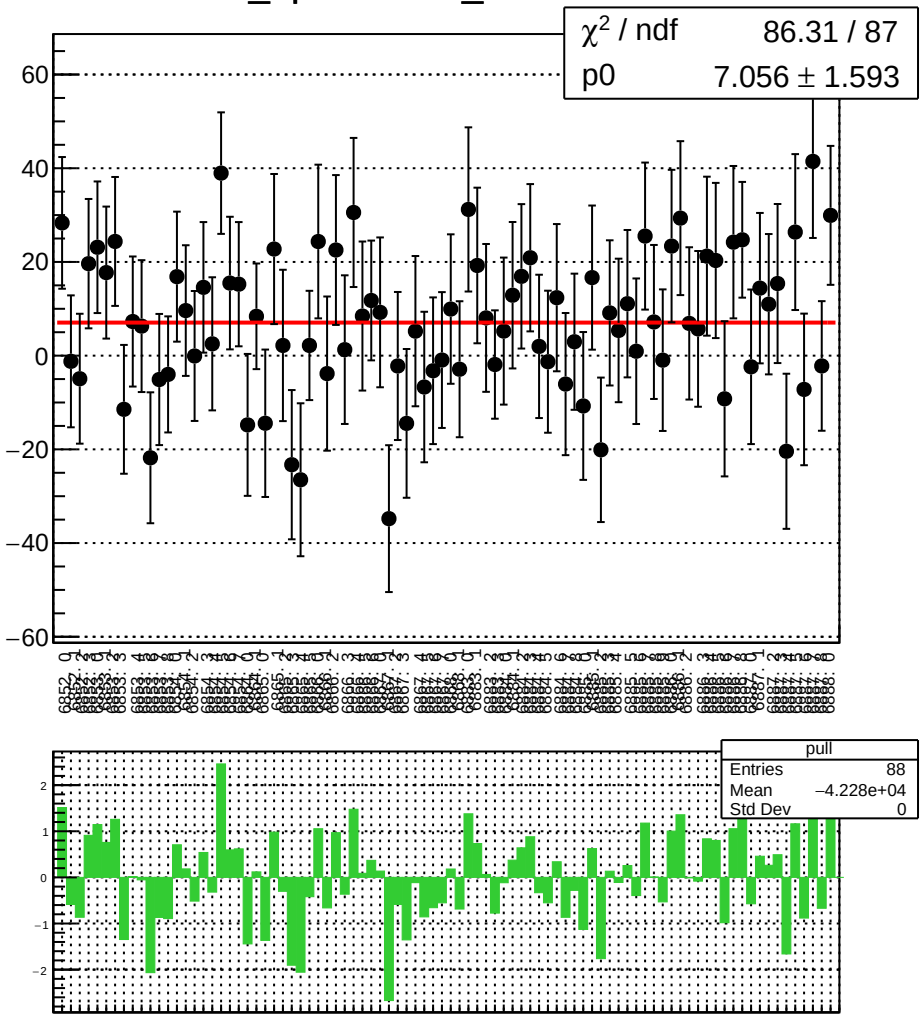

pull1D
Entries 88
Mean −0.004541
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

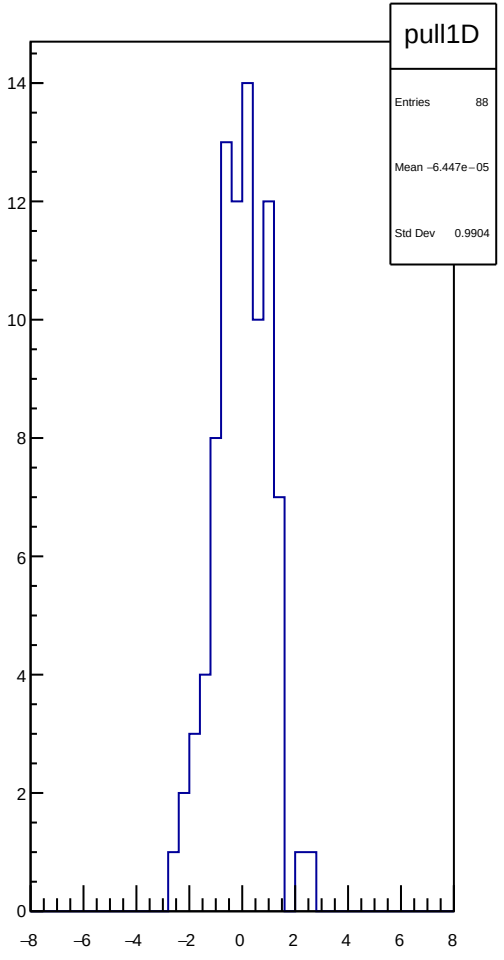

diff_bpm0i02Y_rms vs run
χ² / ndf 753.3 / 87
p0 1275 ± 0.9806
1360
1340
1320
1300
1280
1260
1240
1220
1200

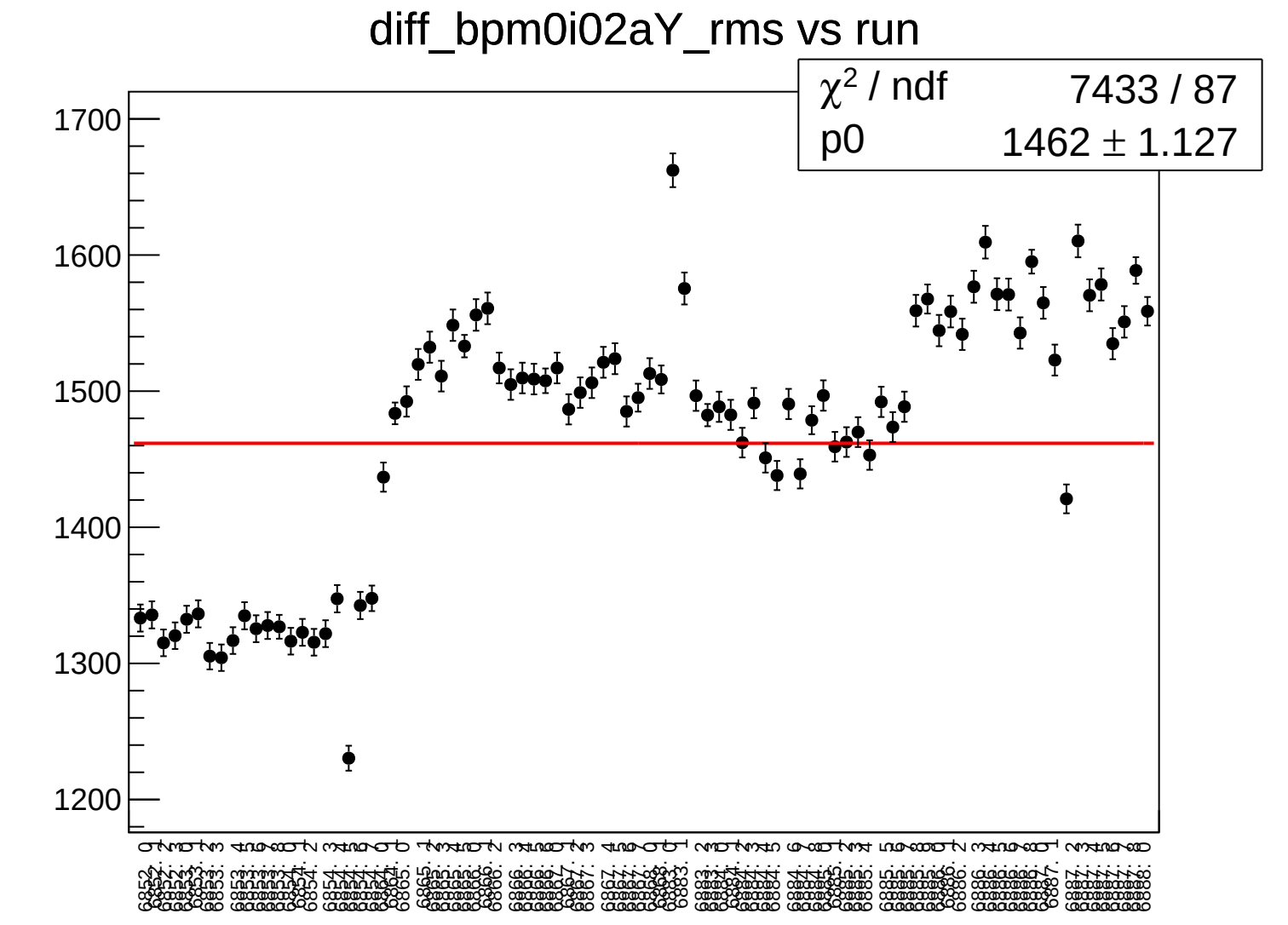

diff_bpm0i02aX_mean vs run
χ² / ndf 172.2 / 87
p0 −7.632 ± 1.785
pull
Entries 88
Mean 1934
Std Dev 0

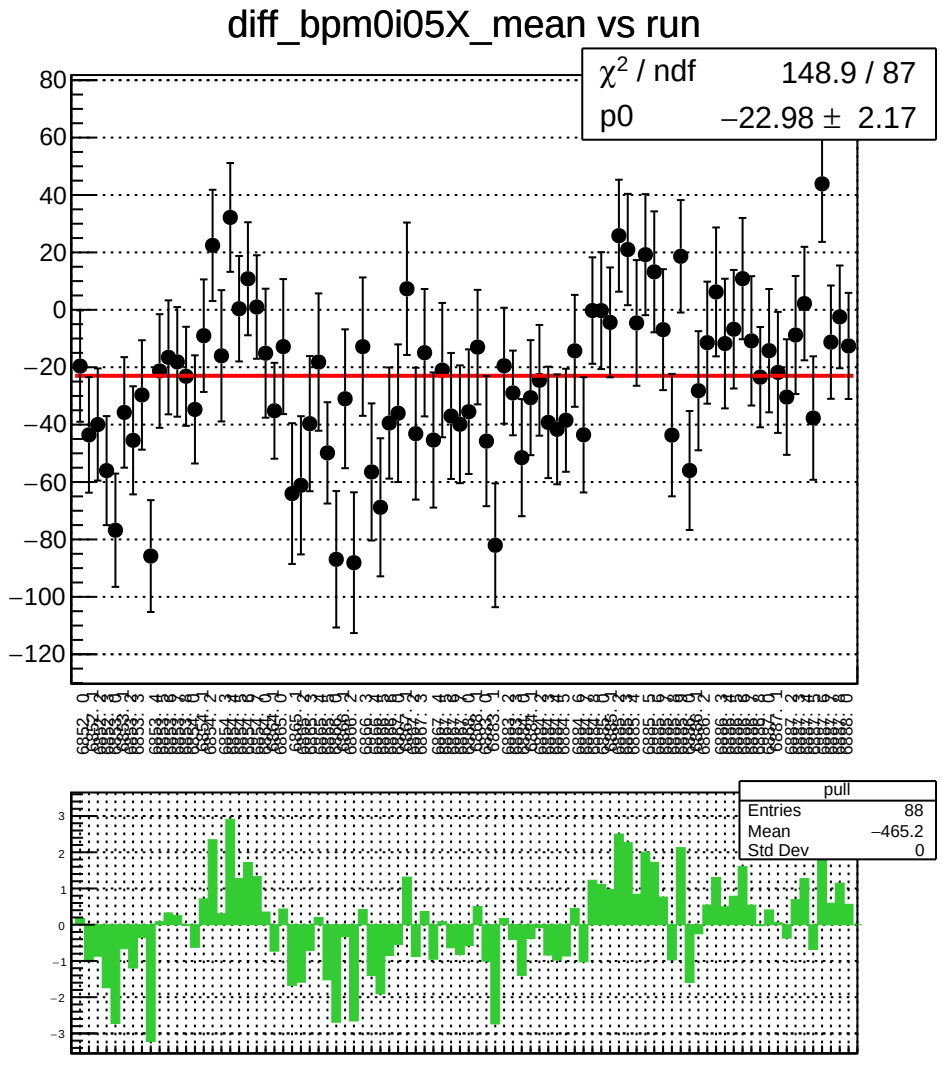

pull1D
Entries 88
Mean −0.007761
Std Dev 1.399

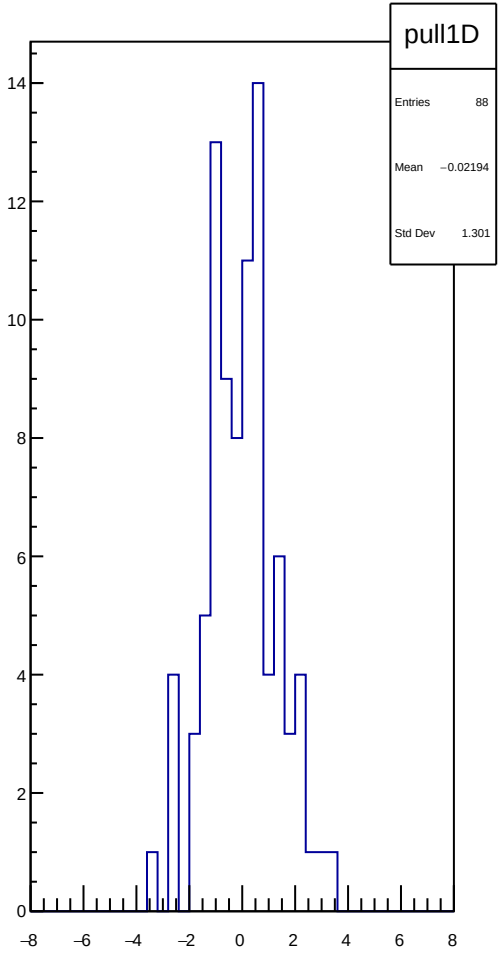

diff_bpm0i02aX_rms vs run
χ² / ndf 1.596e+04 / 87
p0 1634 ± 1.262
1900
1800
1700
1600
1500
1400

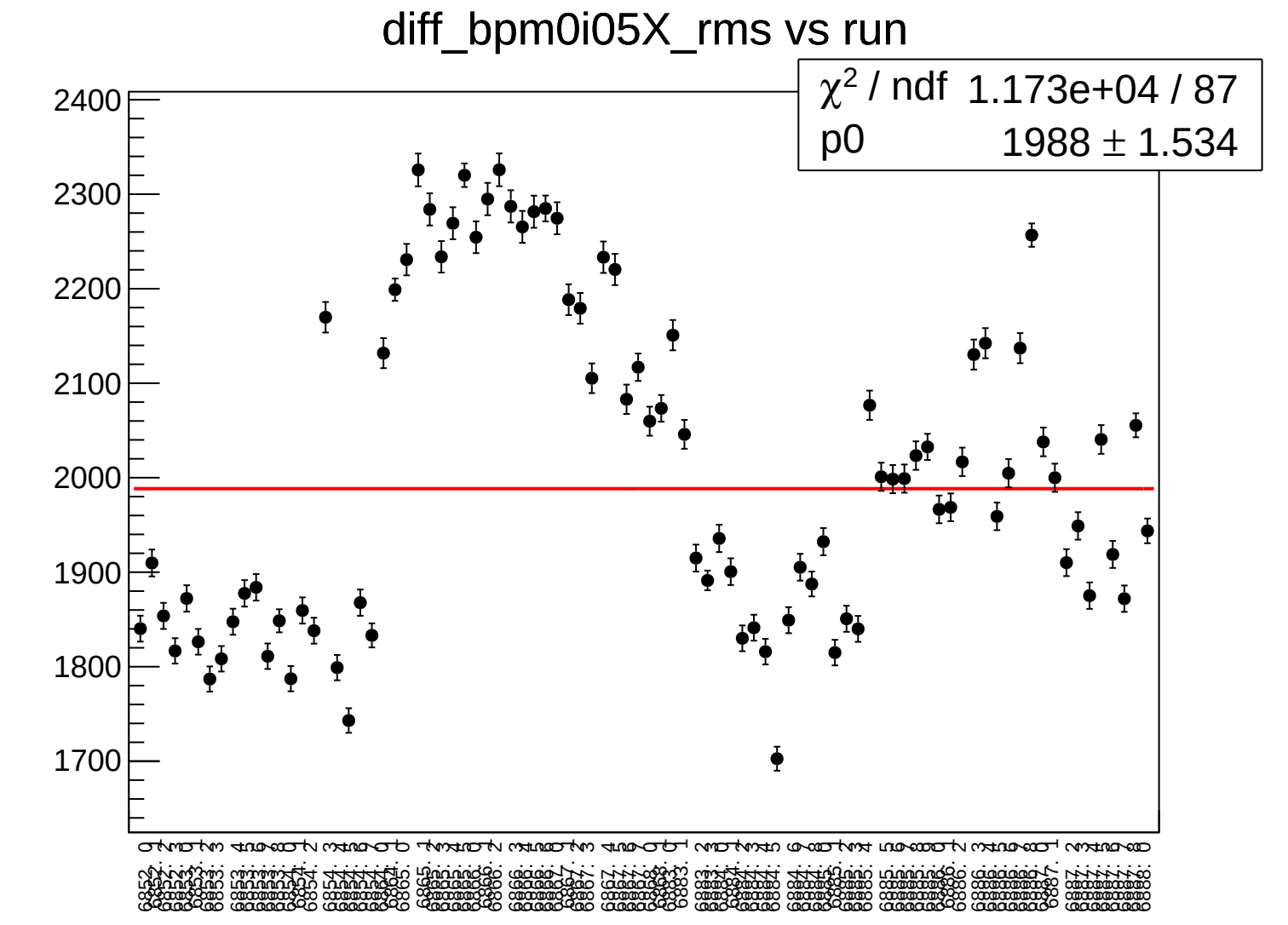

diff_bpm0i02aY_mean vs run
χ² / ndf 86.31 / 87
p0 7.056 ± 1.593
pull
Entries 88
Mean −4.228e+04
Std Dev 0

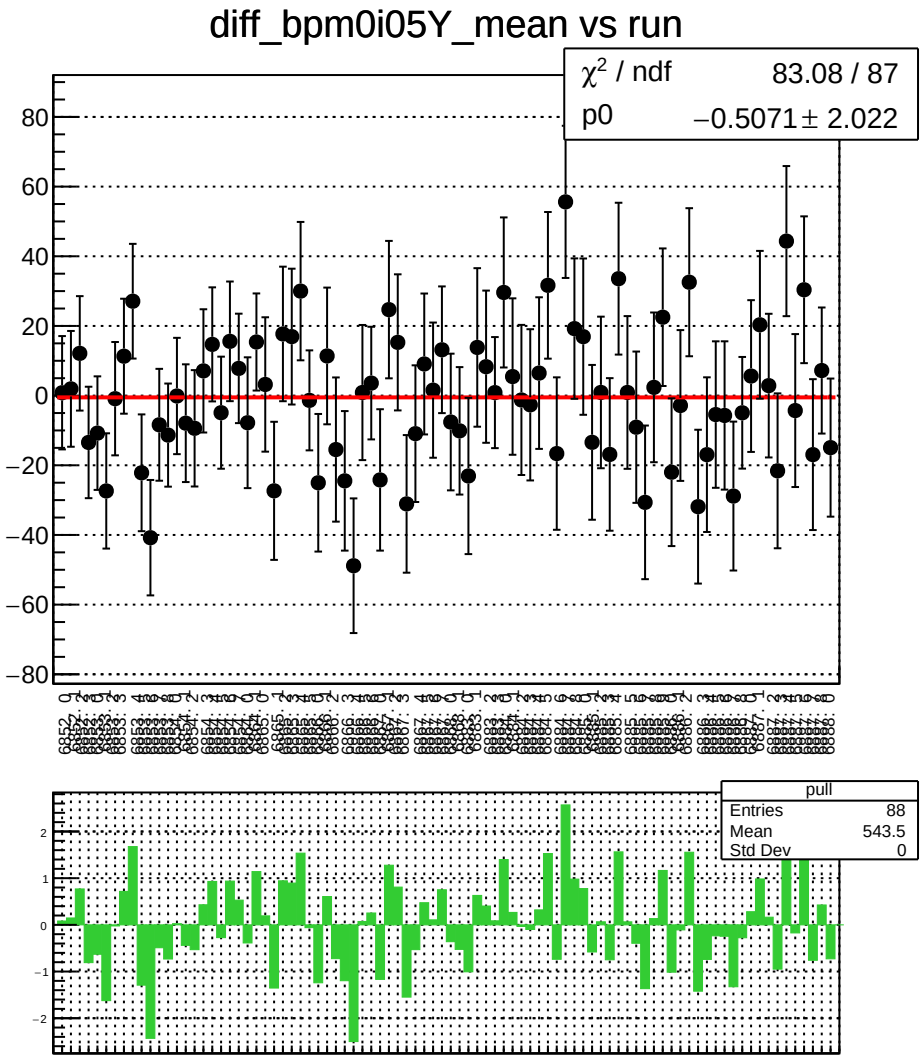

pull1D
Entries 88
Mean −6.447e−05
Std Dev 0.9904

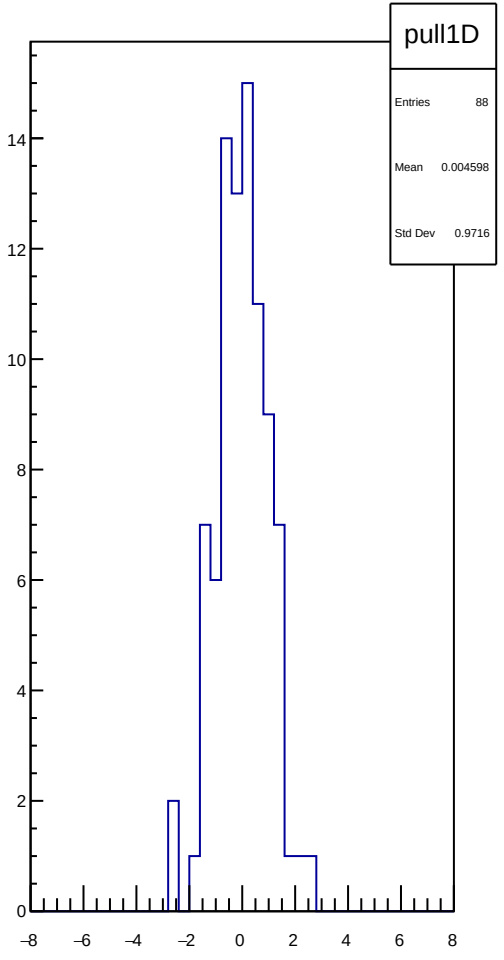

diff_bpm0i02aY_rms vs run
χ² / ndf 7433 / 87
p0 1462 ± 1.127
1700
1600
1500
1400
1300
1200

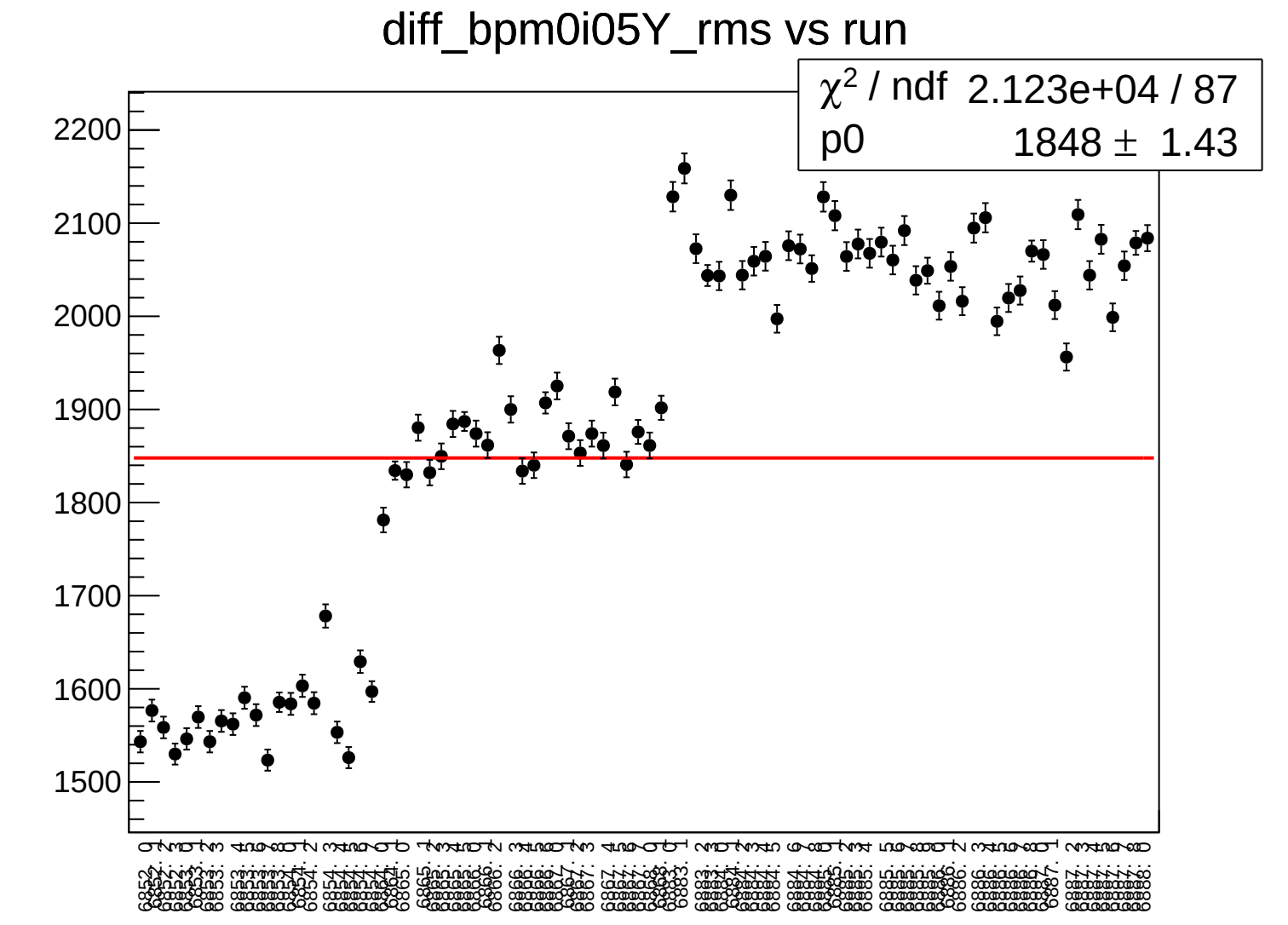

diff_bpm0i05X_mean vs run
χ² / ndf 148.9 / 87
p0 −22.98 ± 2.17
pull
Entries 88
Mean −465.2
Std Dev 0

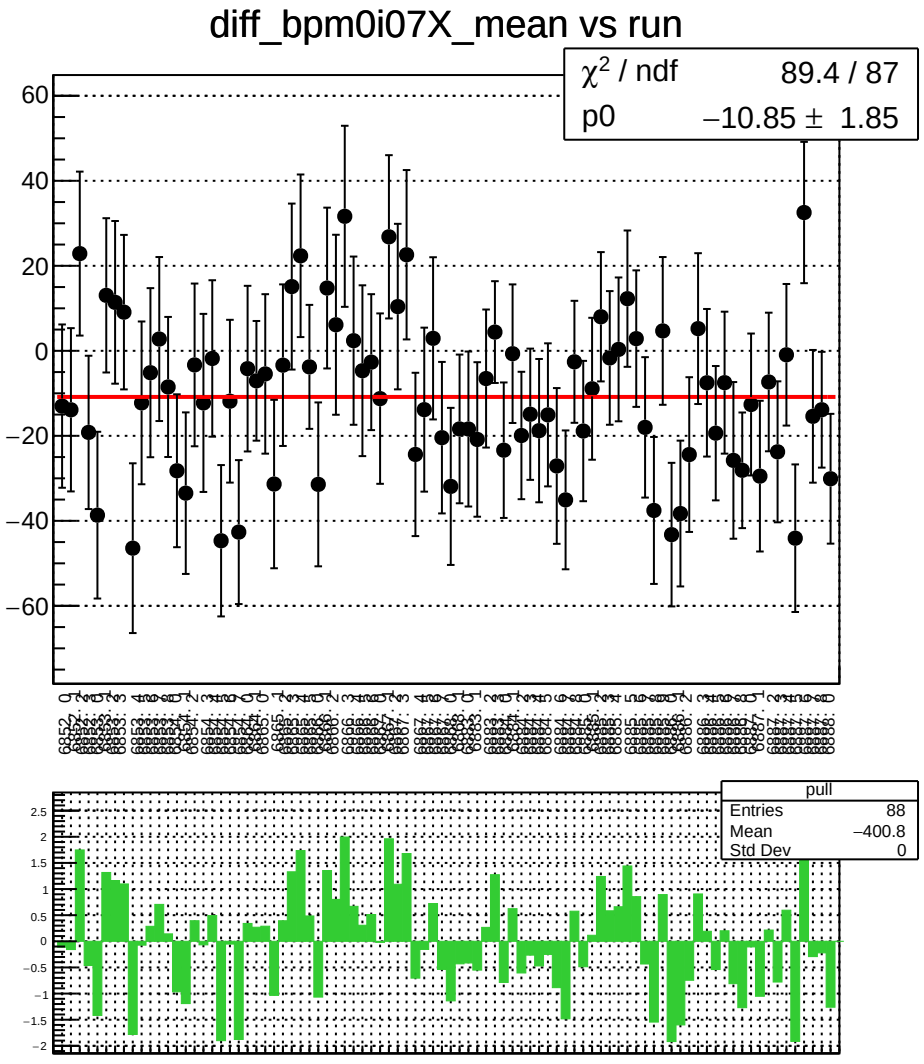

pull1D
Entries 88
Mean −0.02194
Std Dev 1.301

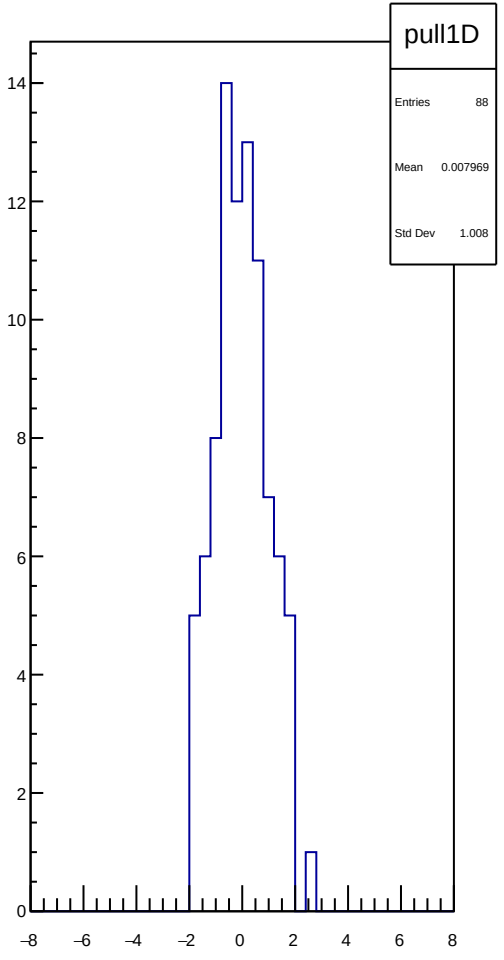

diff_bpm0i05X_rms vs run
χ² / ndf 1.173e+04 / 87
p0 1988 ± 1.534
2400
2300
2200
2100
2000
1900
1800
1700

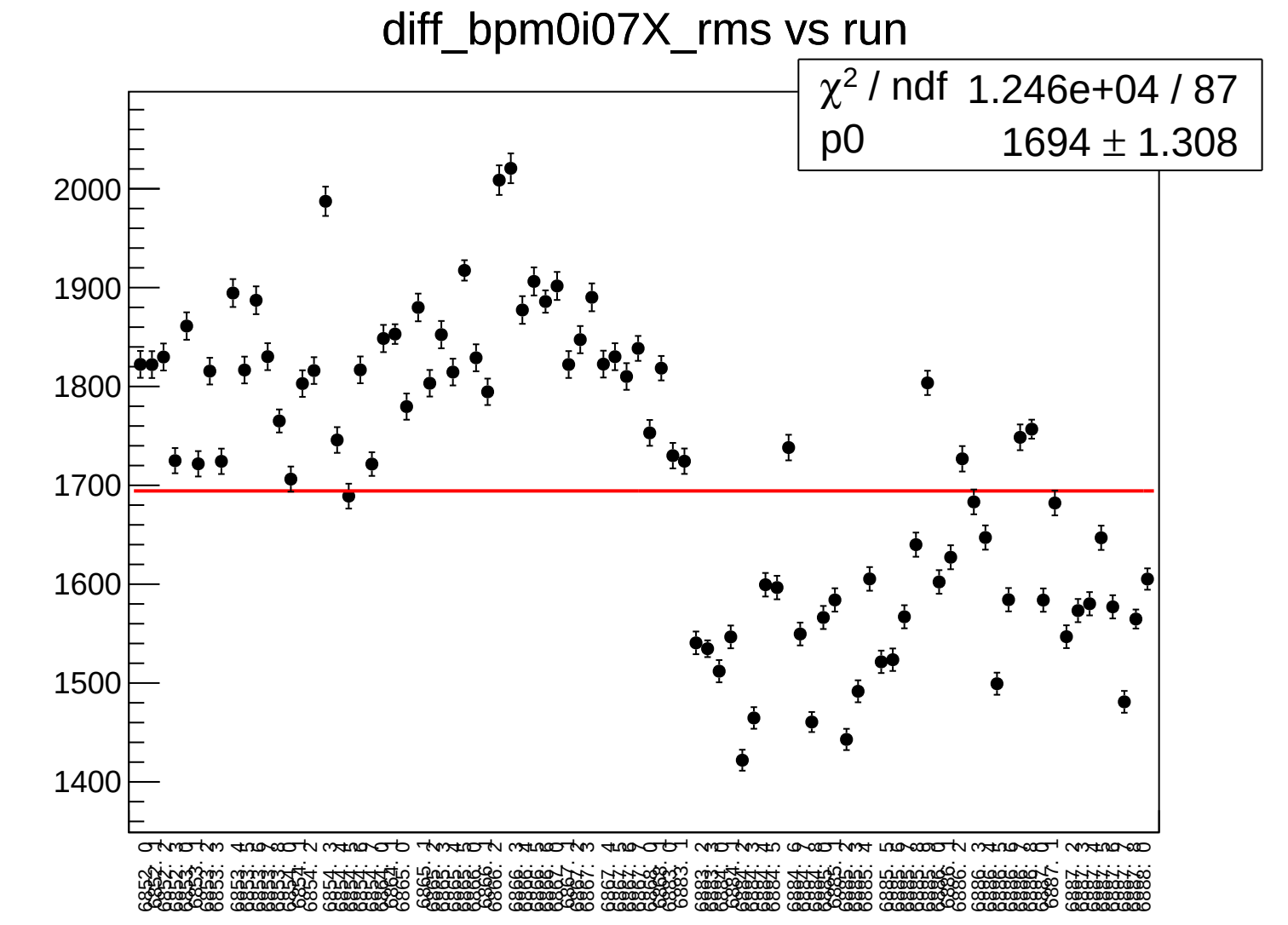

diff_bpm0i05Y_mean vs run
χ² / ndf 83.08 / 87
p0 −0.5071 ± 2.022
pull
Entries 88
Mean 543.5
Std Dev 0

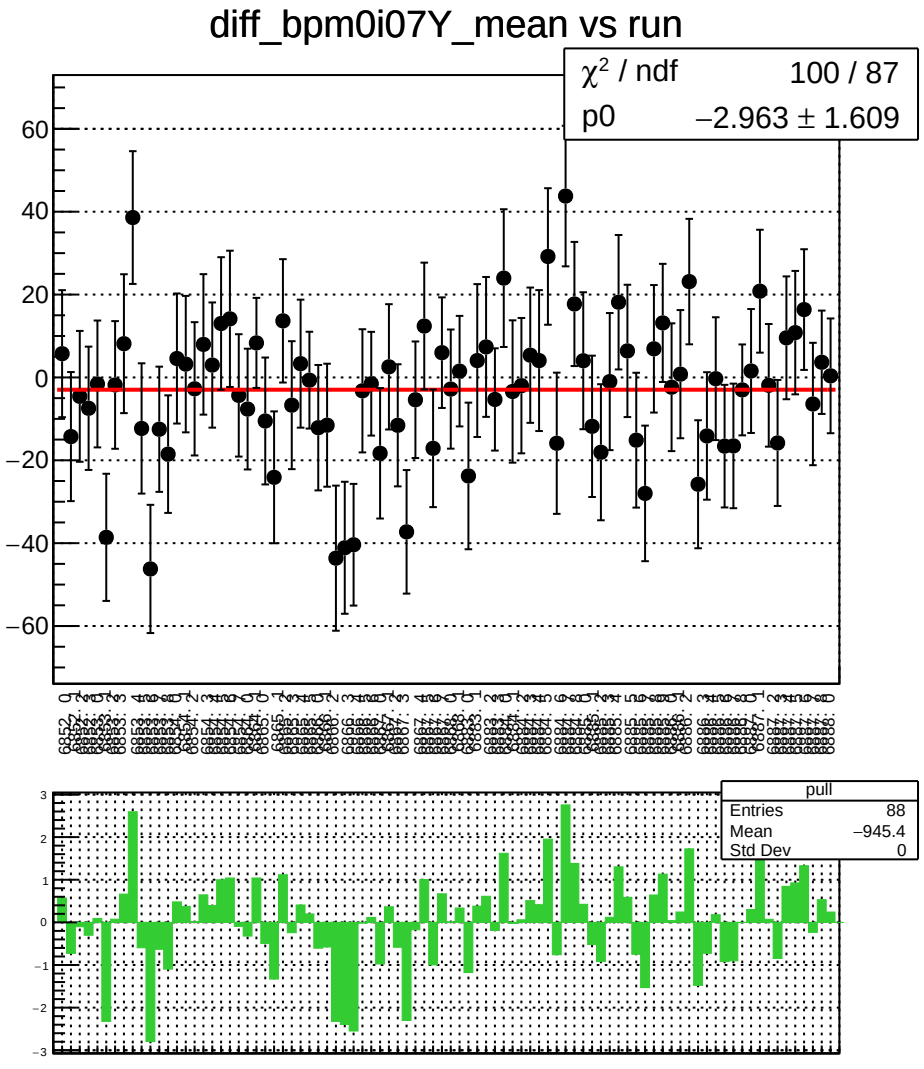

pull1D
Entries 88
Mean 0.004598
Std Dev 0.9716

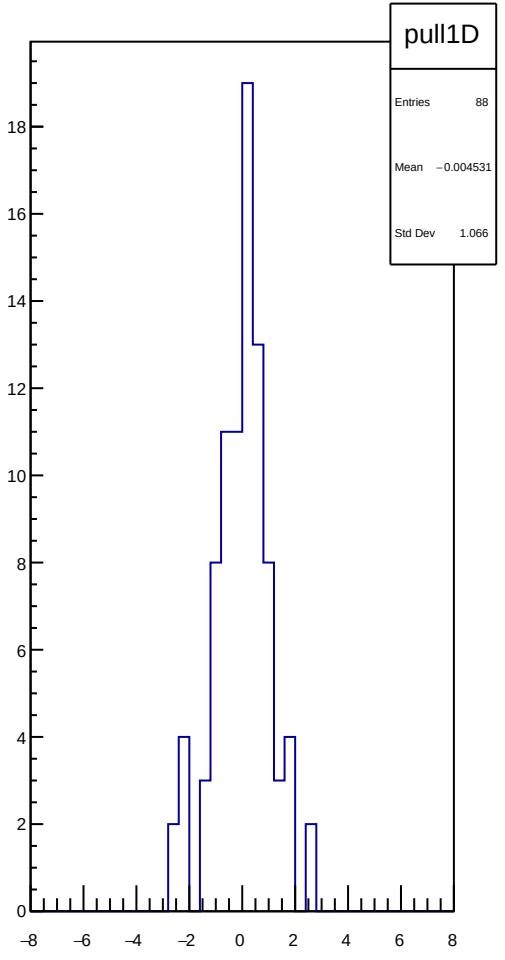

diff_bpm0i05Y_rms vs run
χ² / ndf 2.123e+04 / 87
p0 1848 ± 1.43
2200
2100
2000
1900
1800
1700
1600
1500

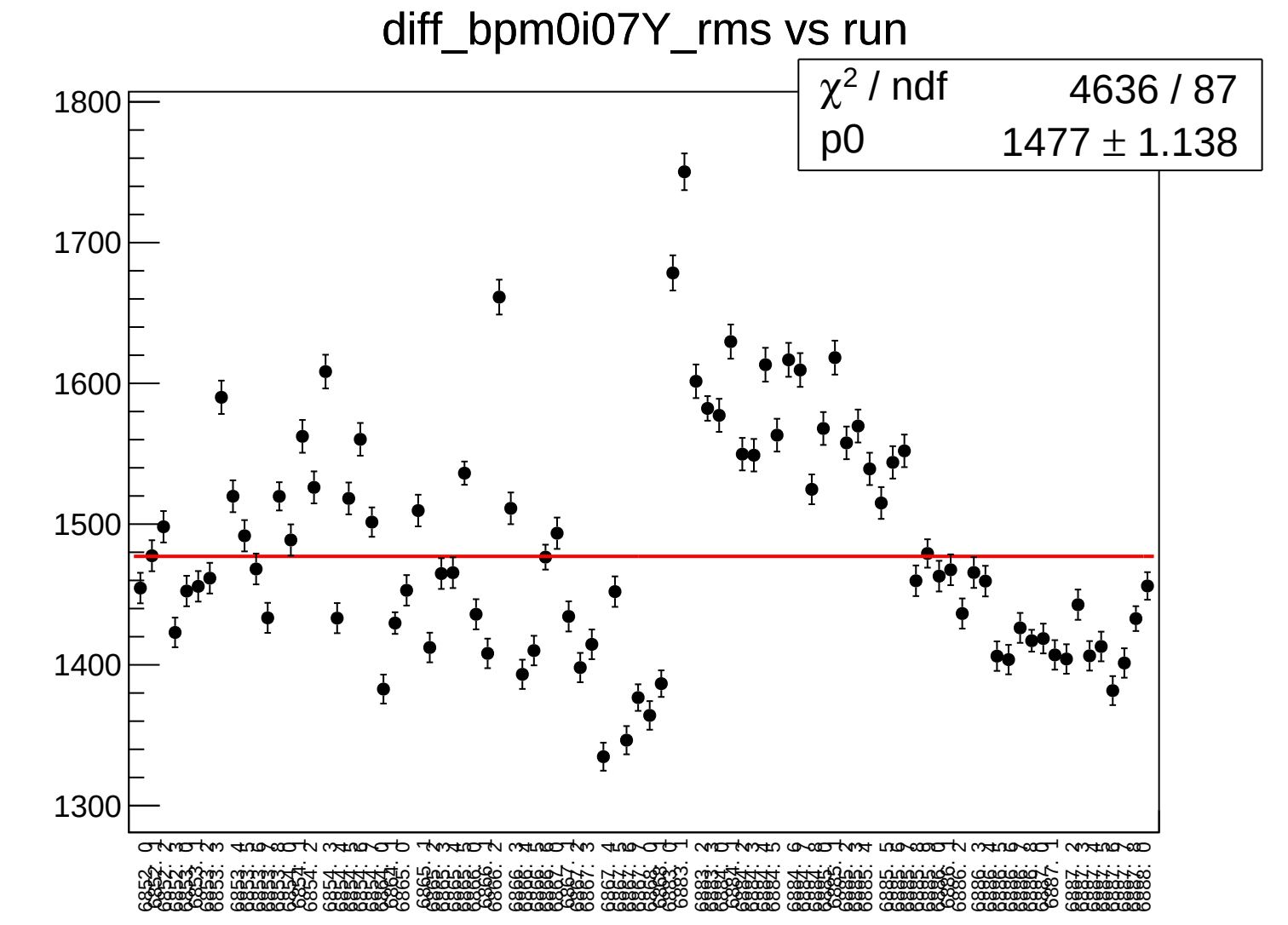

diff_bpm0i07X_mean vs run
χ^2 / ndf 89.4 / 87
p0 −10.85 ± 1.85
pull
Entries 88
Mean −400.8
Std Dev 0

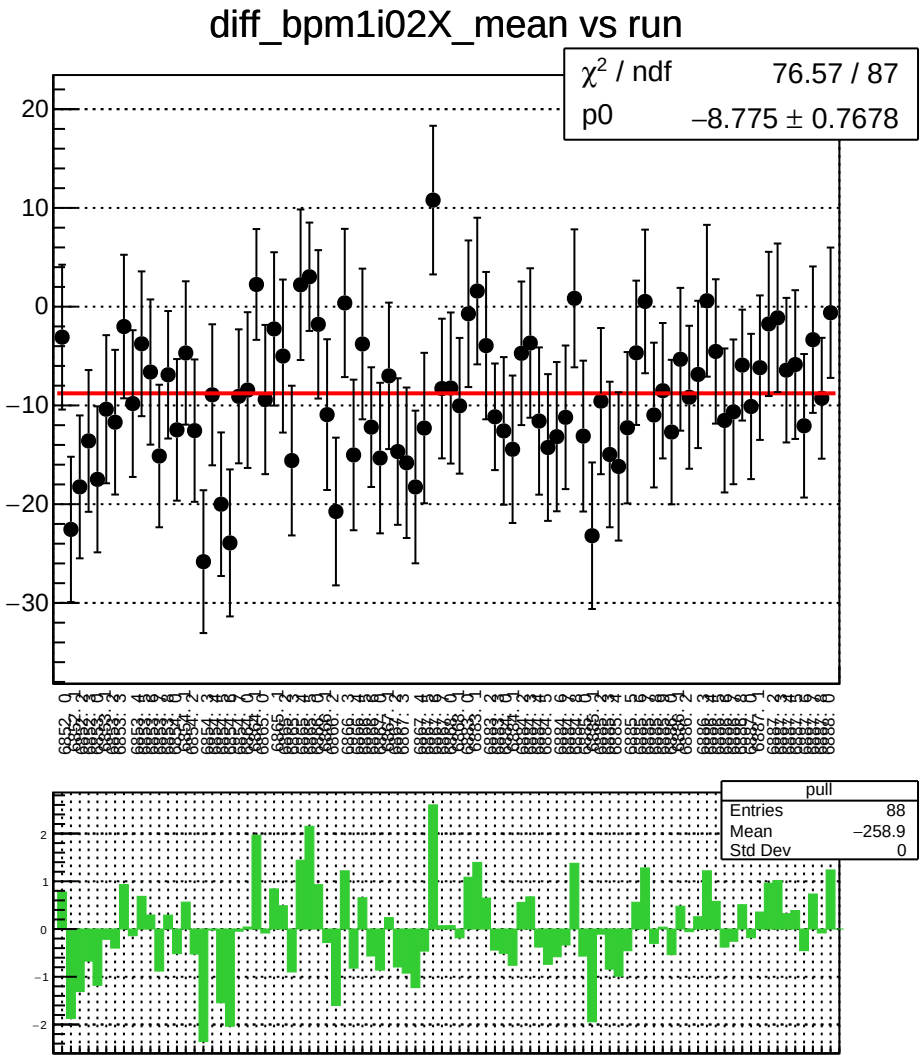

pull1D
Entries 88
Mean 0.007969
Std Dev 1.008

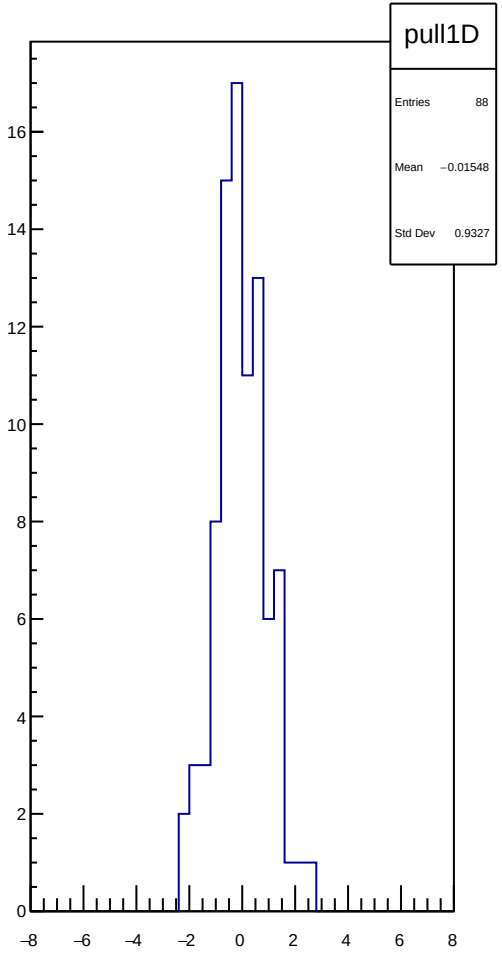

diff_bpm0i07X_rms vs run
χ² / ndf 1.246e+04 / 87
p0 1694 ± 1.308
2000
1900
1800
1700
1600
1500
1400

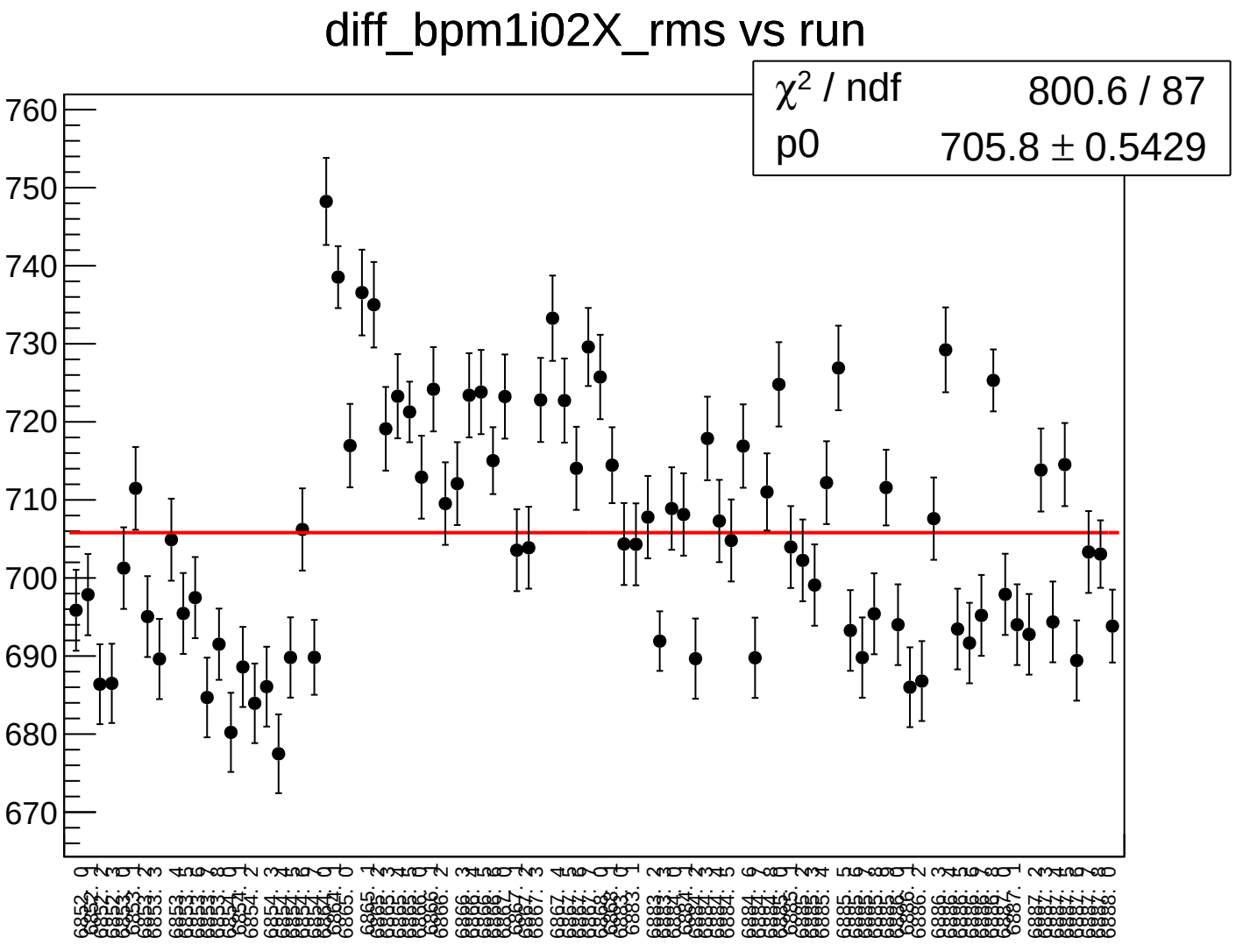

diff_bpm0i07Y_mean vs run
χ² / ndf 100 / 87
p0 −2.963 ± 1.609
pull
Entries 88
Mean −945.4
Std Dev 0

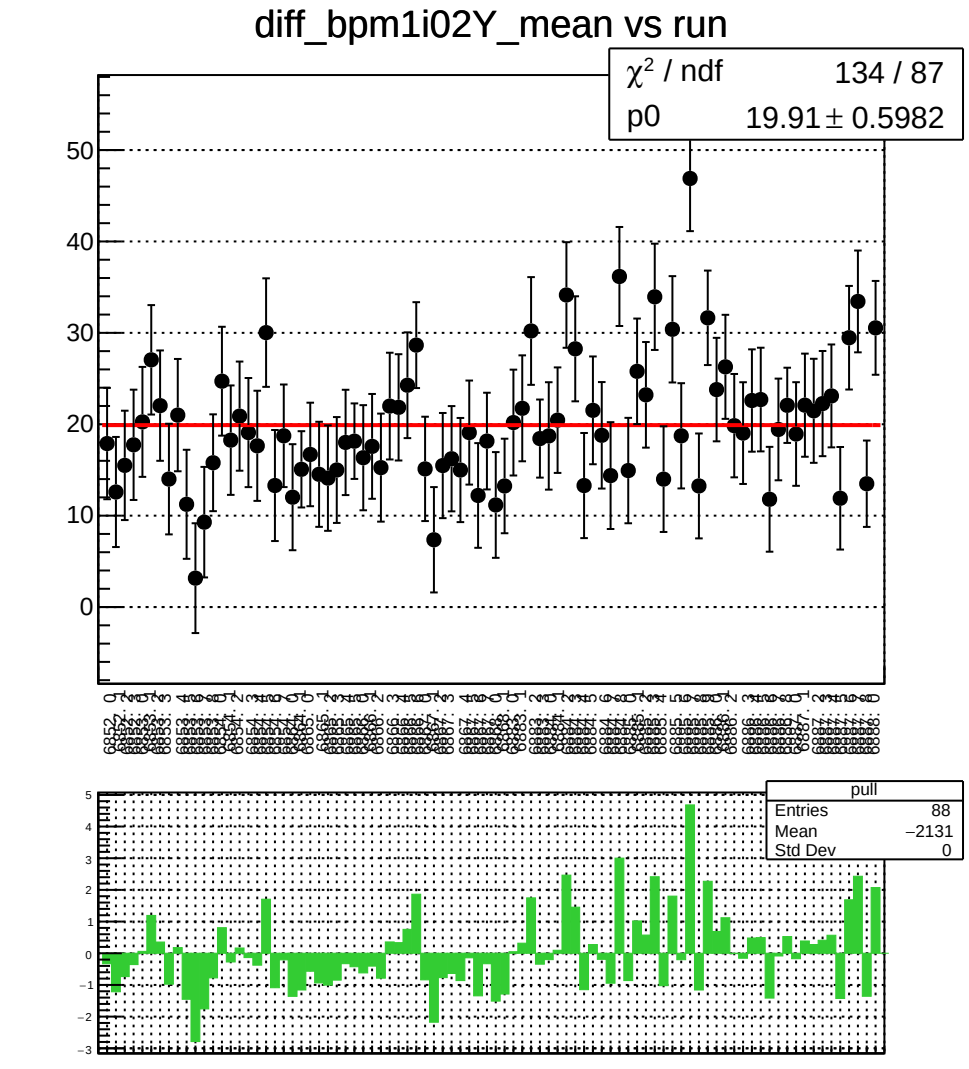

pull1D
Entries 88
Mean −0.004531
Std Dev 1.066

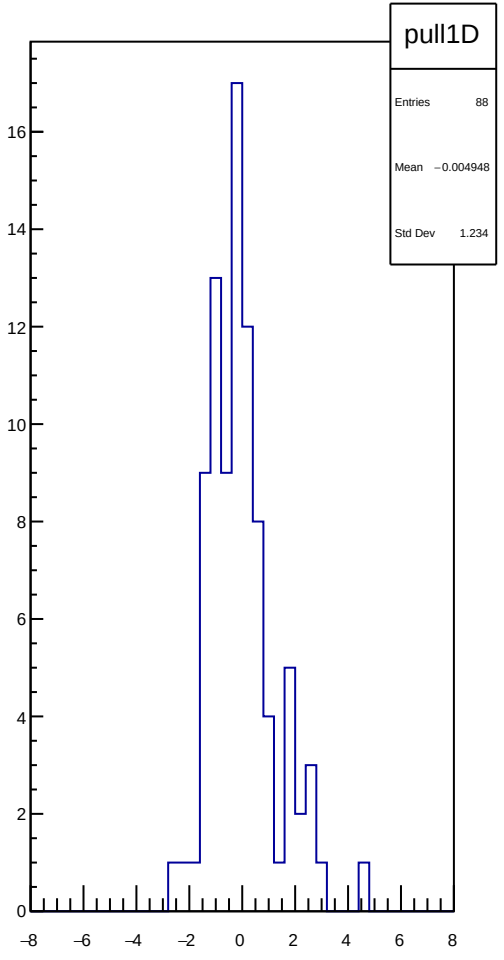

diff_bpm0i07Y_rms vs run
χ² / ndf 4636 / 87
p0 1477 ± 1.138
1800
1700
1600
1500
1400
1300

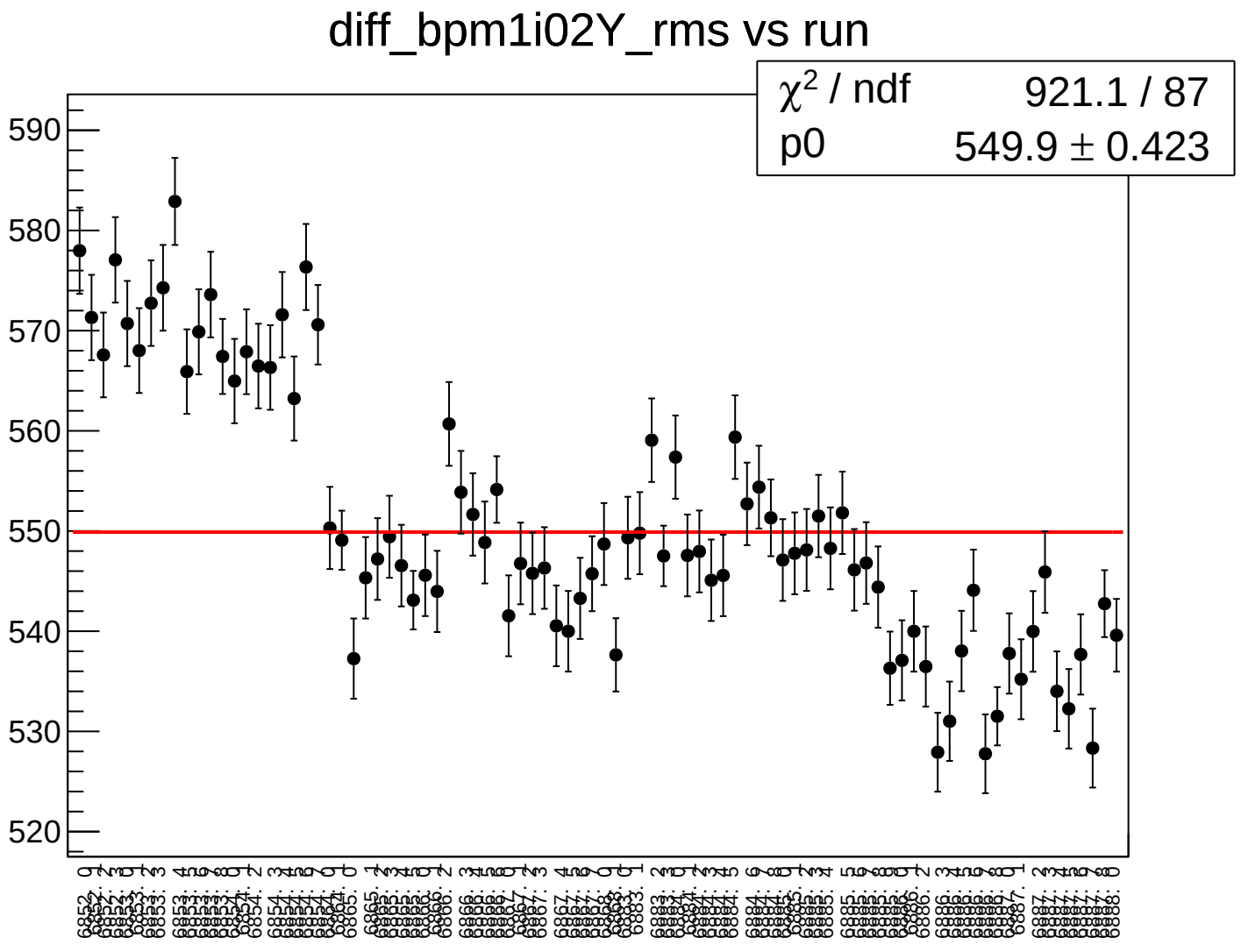

diff_bpm1i02X_mean vs run
χ² / ndf 76.57 / 87
p0 −8.775 ± 0.7678
pull
Entries 88
Mean −258.9
Std Dev 0

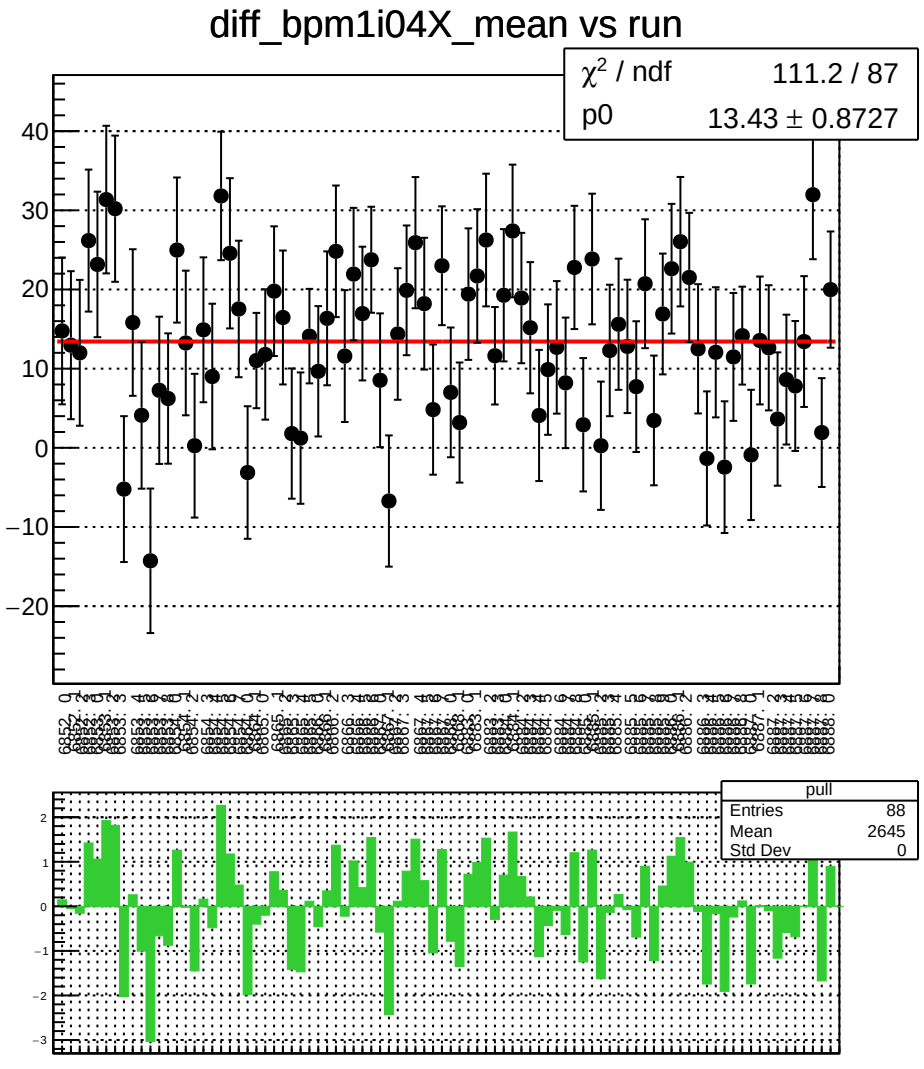

pull1D
Entries 88
Mean −0.01548
Std Dev 0.9327

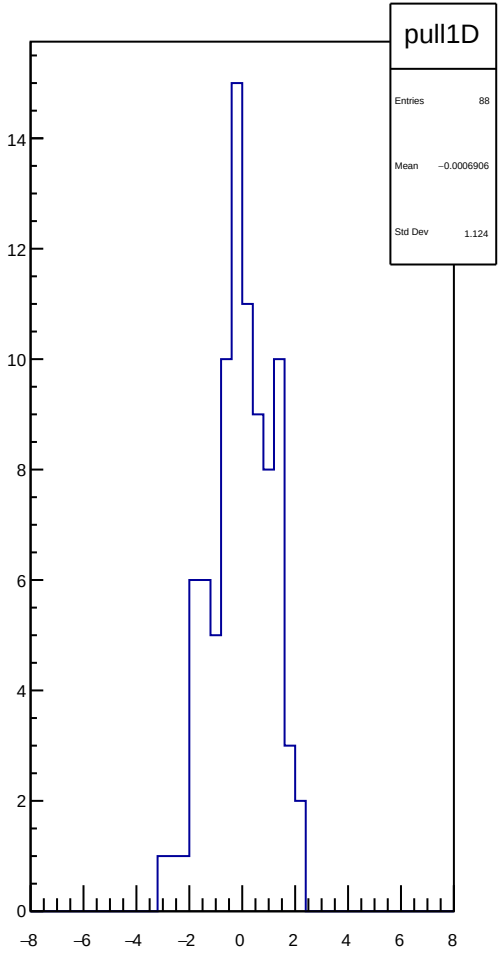

diff_bpm1i02X_rms vs run
χ² / ndf 800.6 / 87
p0 705.8 ± 0.5429
760
750
740
730
720
710
700
690
680
670

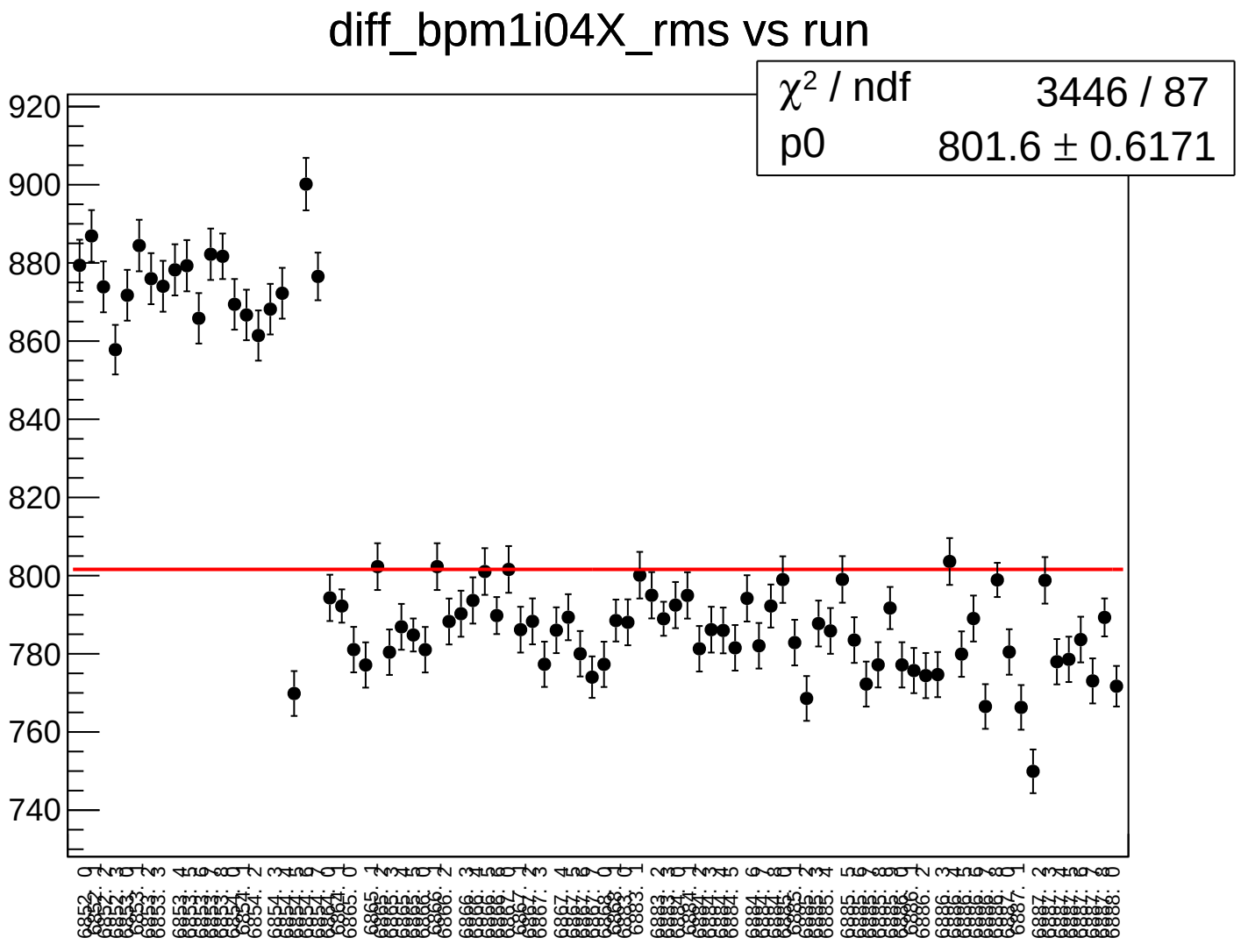

diff_bpm1i02Y_mean vs run
χ² / ndf 134 / 87
p0 19.91 ± 0.5982
pull
Entries 88
Mean −2131
Std Dev 0

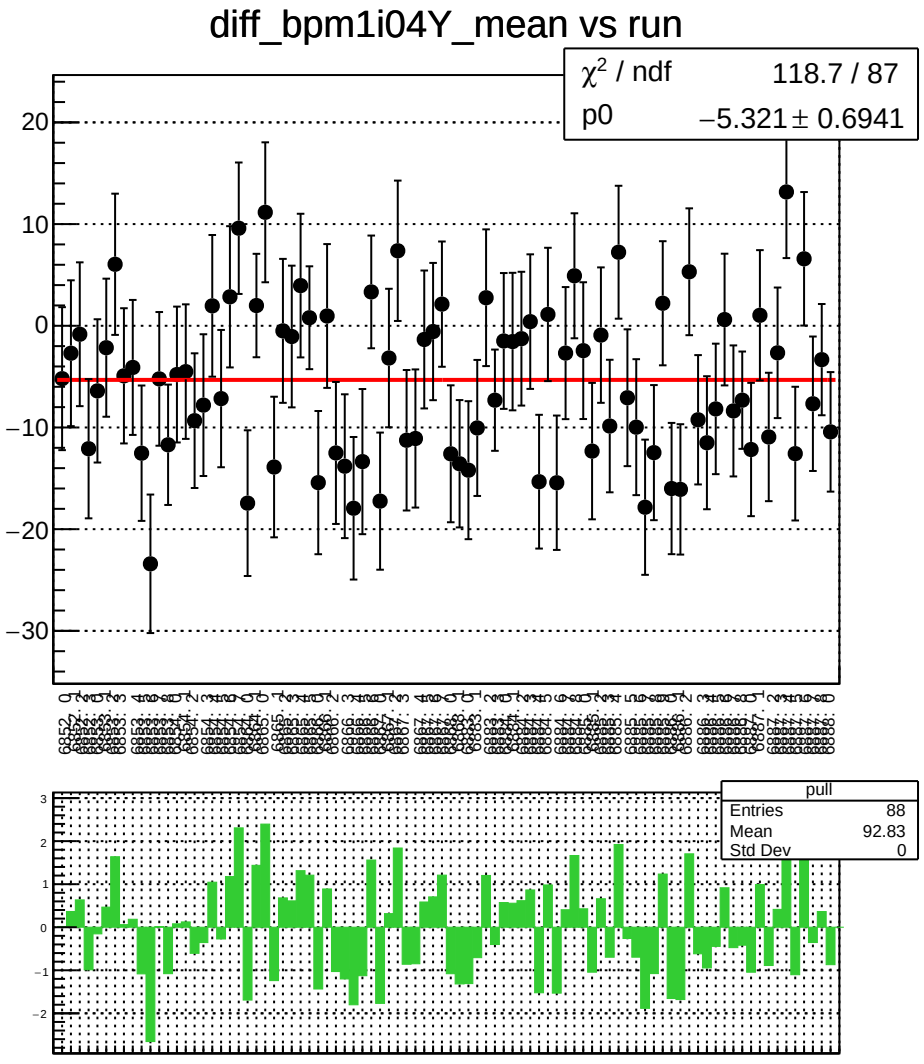

pull1D
Entries 88
Mean −0.004948
Std Dev 1.234

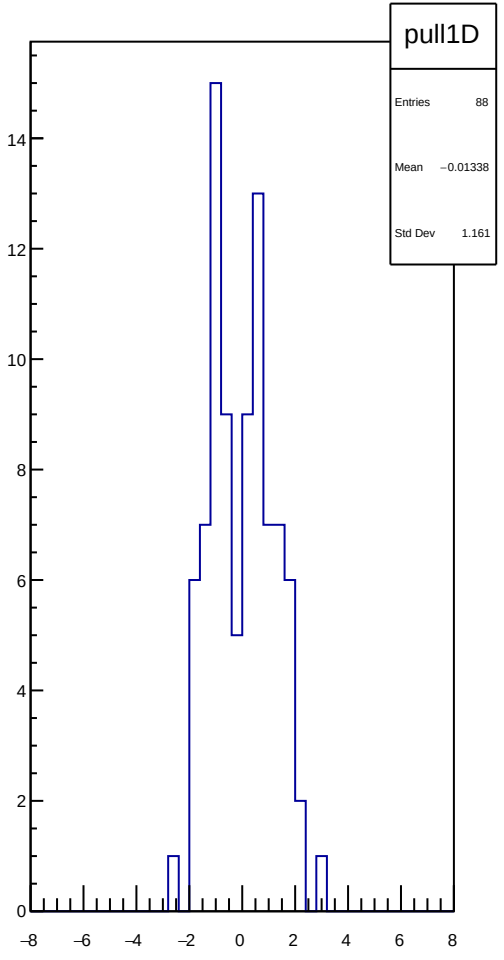

diff_bpm1i02Y_rms vs run
χ² / ndf 921.1 / 87
p0 549.9 ± 0.423
590
580
570
560
550
540
530
520

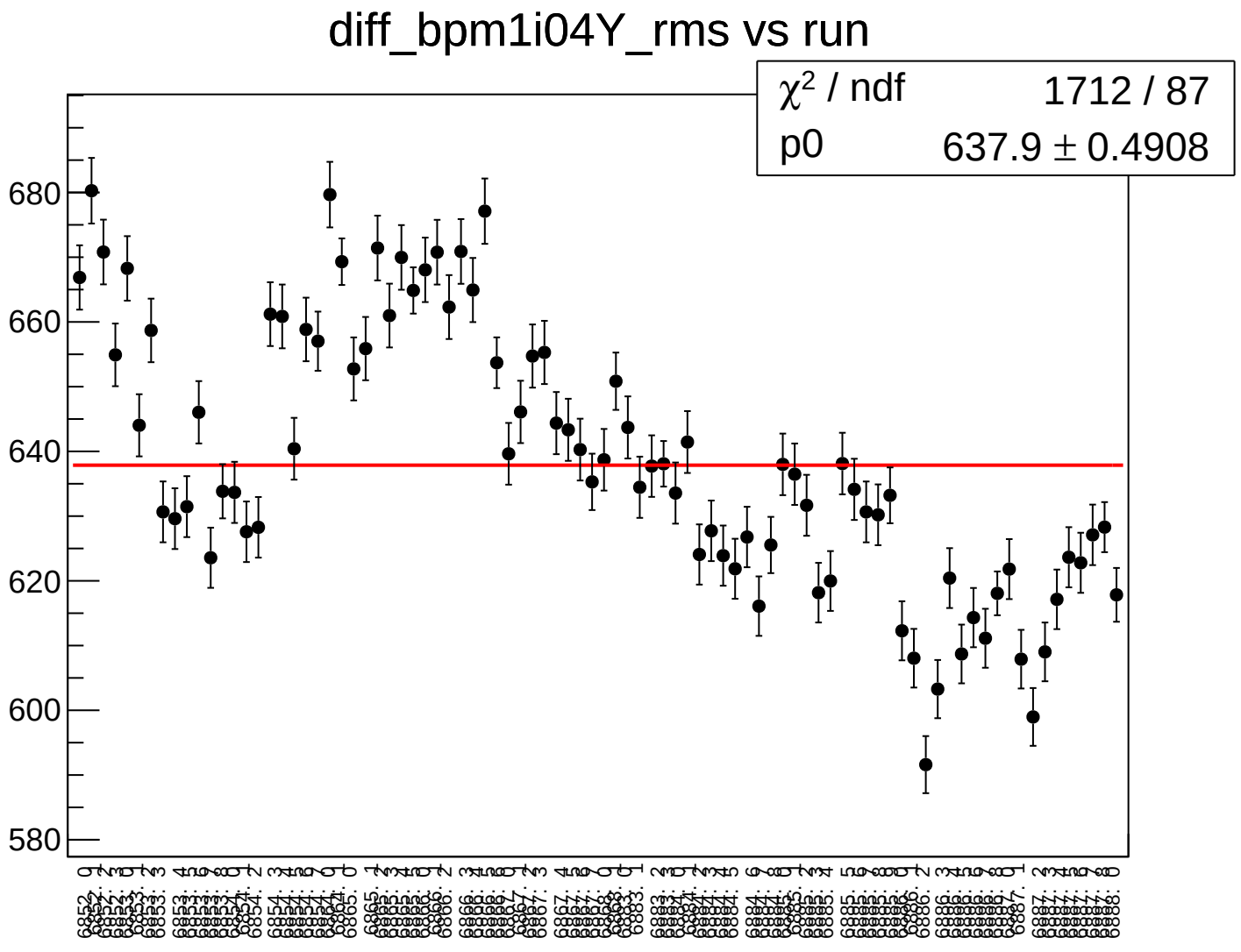

diff_bpm1i04X_mean vs run
χ² / ndf 111.2 / 87
p0 13.43 ± 0.8727
pull
Entries 88
Mean 2645
Std Dev 0

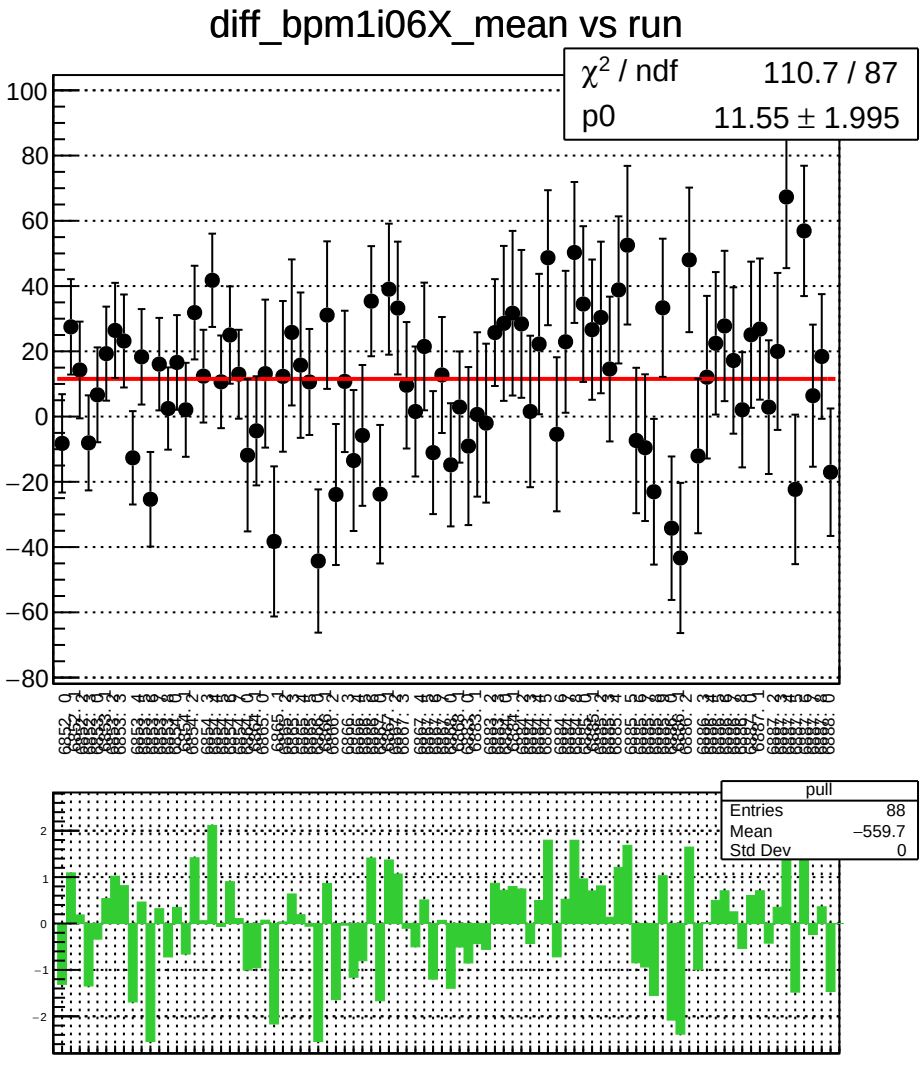

pull1D
Entries 88
Mean −0.0006906
Std Dev 1.124

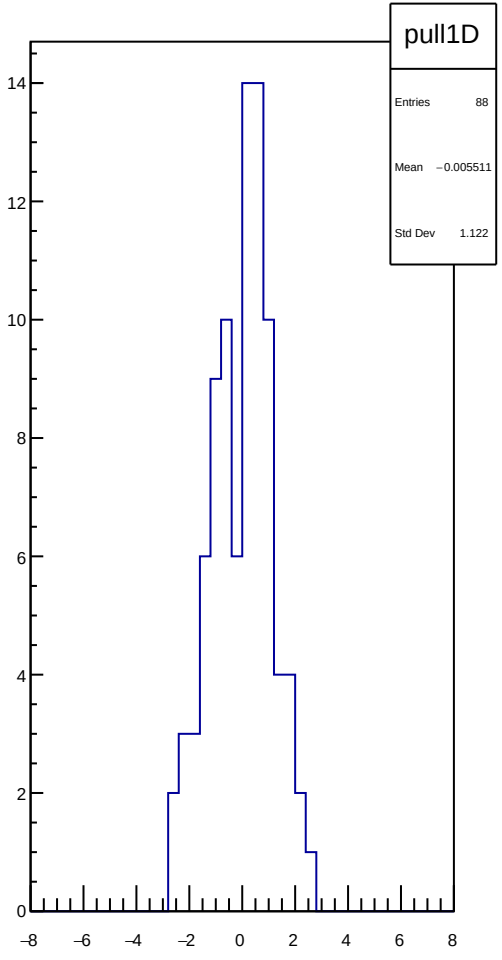

diff_bpm1i04X_rms vs run
χ² / ndf 3446 / 87
p0 801.6 ± 0.6171
920
900
880
860
840
820
800
780
760
740

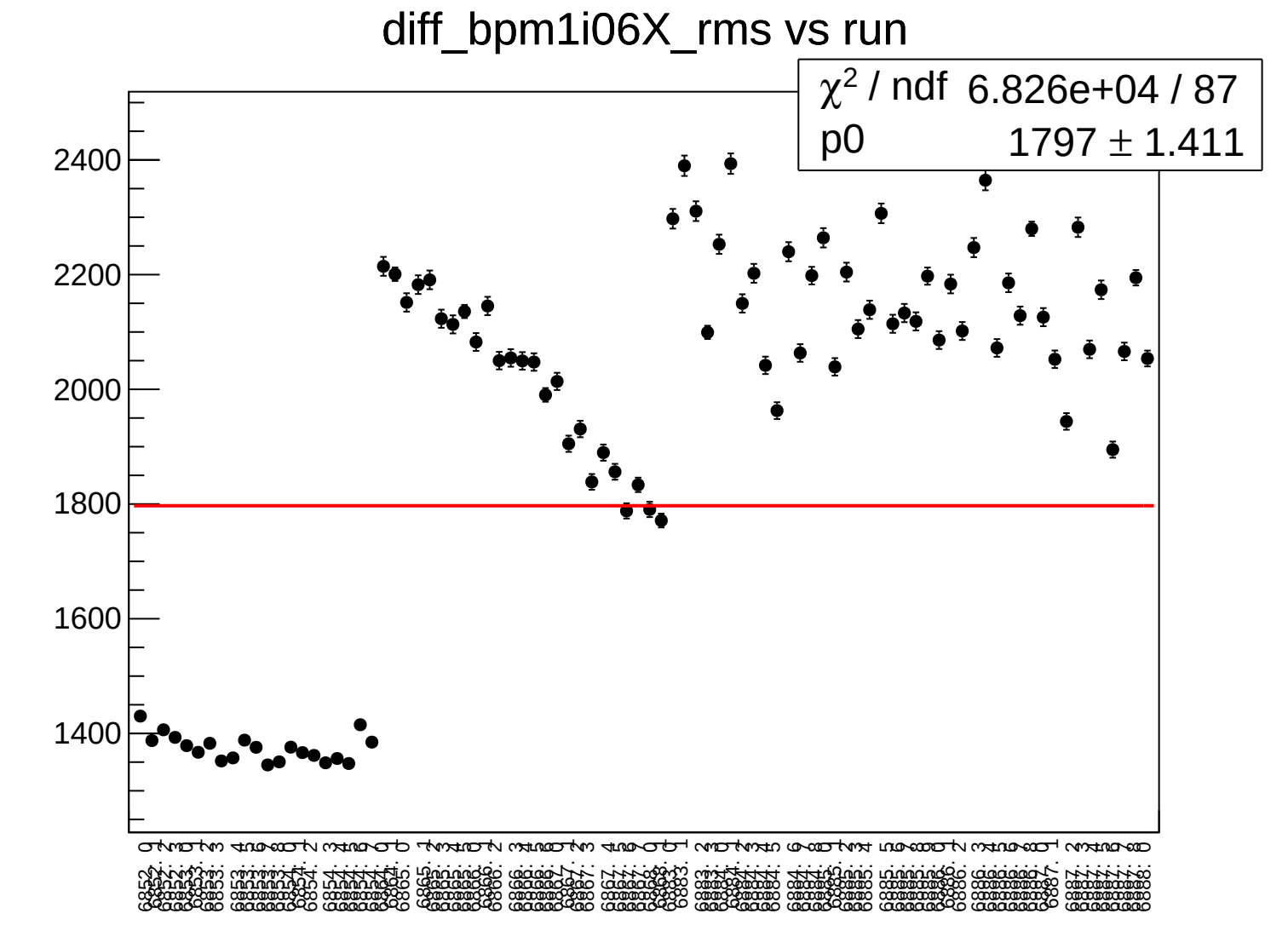

diff_bpm1i04Y_mean vs run
χ² / ndf 118.7 / 87
p0 −5.321 ± 0.6941
pull
Entries 88
Mean 92.83
Std Dev 0

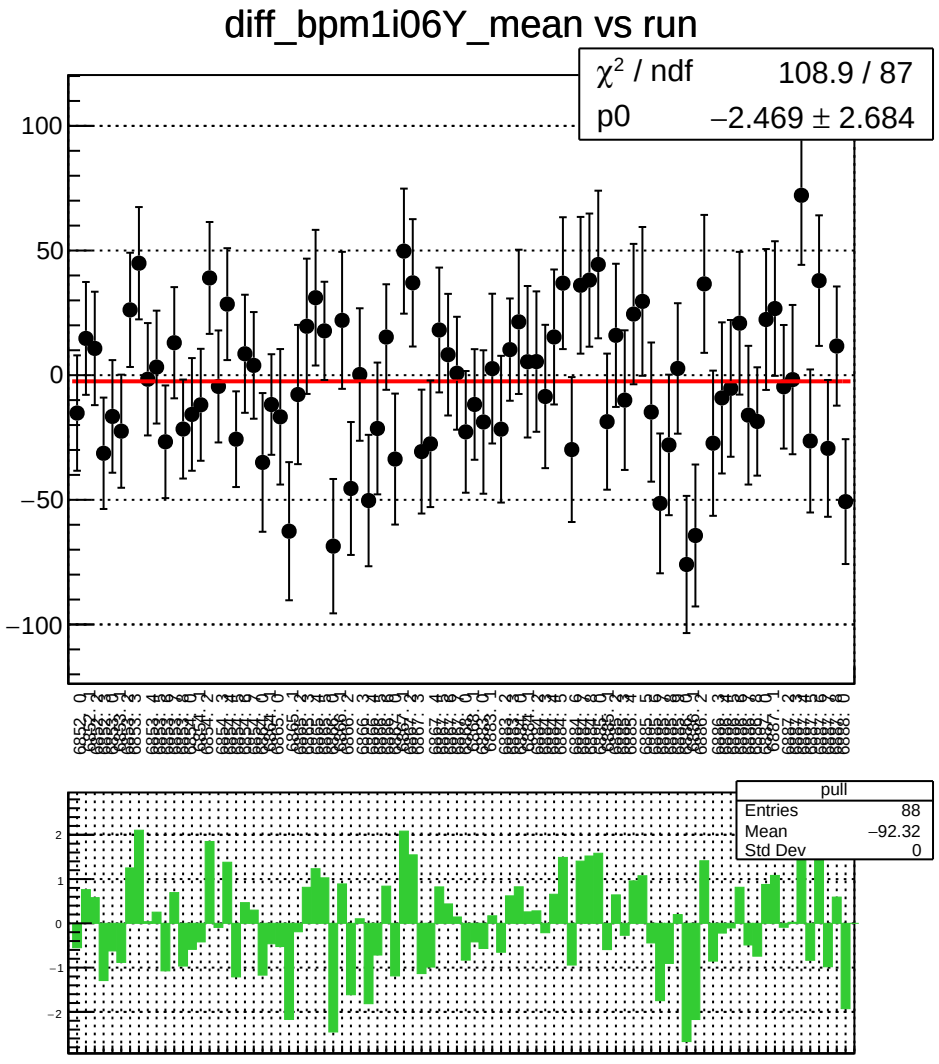

pull1D
Entries 88
Mean −0.01338
Std Dev 1.161

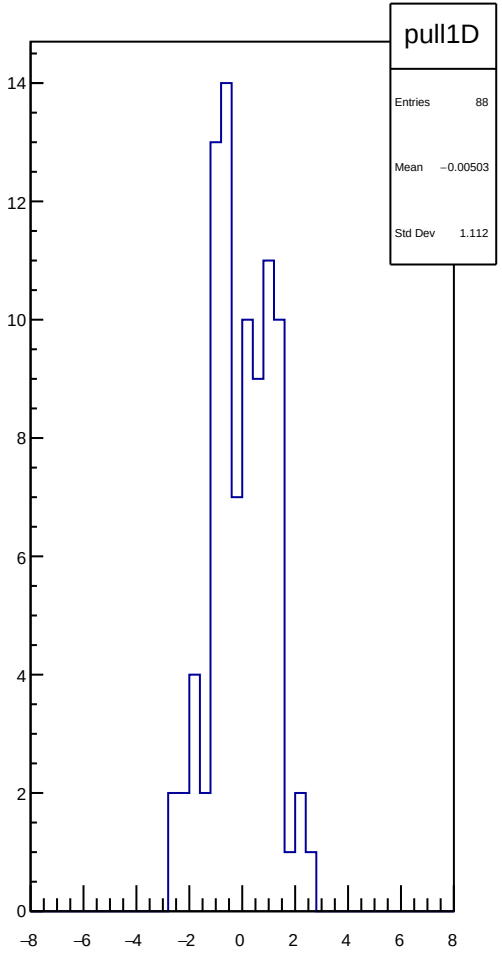

diff_bpm1i04Y_rms vs run
χ² / ndf 1712 / 87
p0 637.9 ± 0.4908
680
660
640
620
600
580

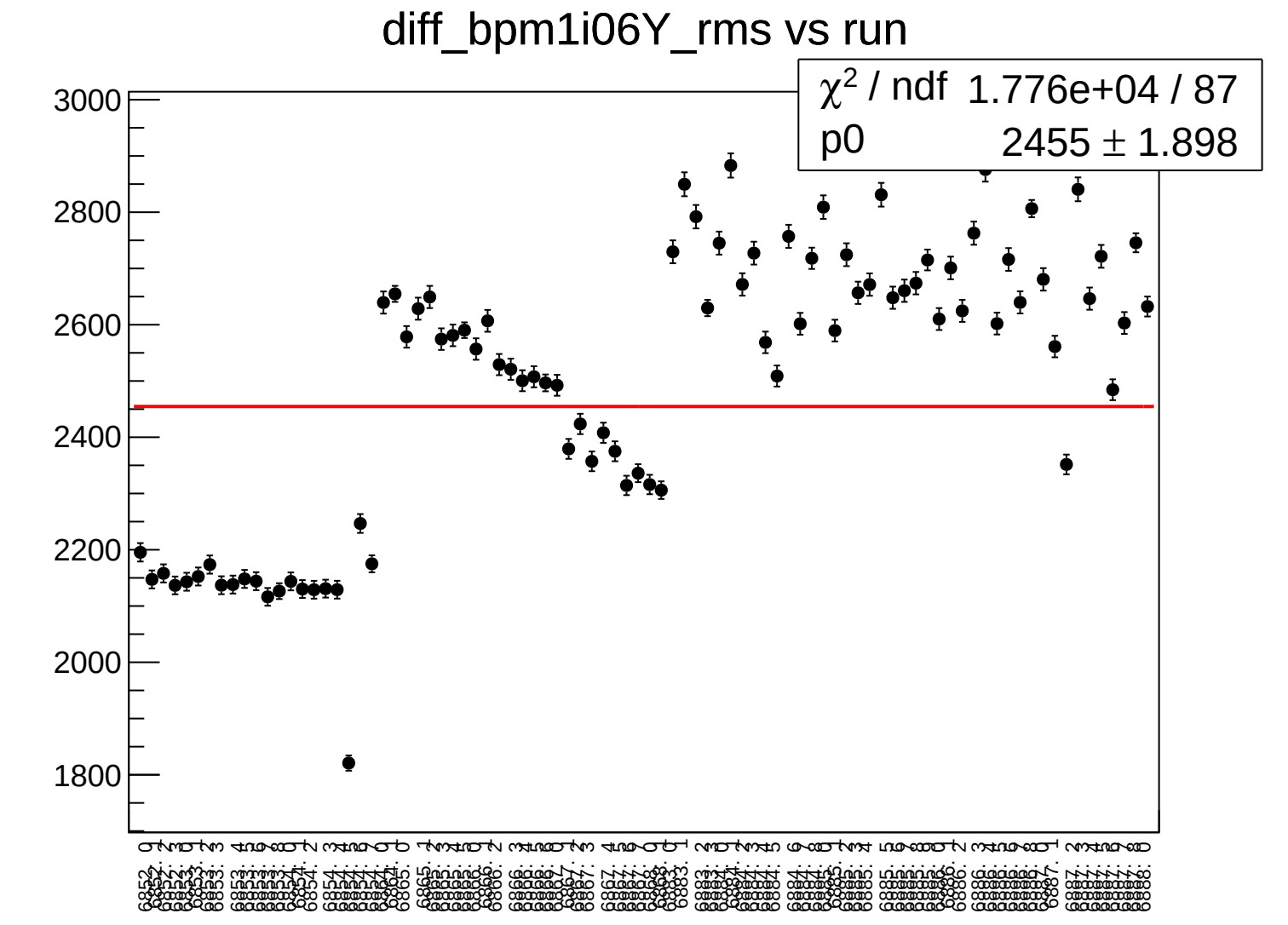

diff_bpm1i06X_mean vs run
χ^2 / ndf 110.7 / 87
p0 11.55 ± 1.995
pull
Entries 88
Mean −559.7
Std Dev 0

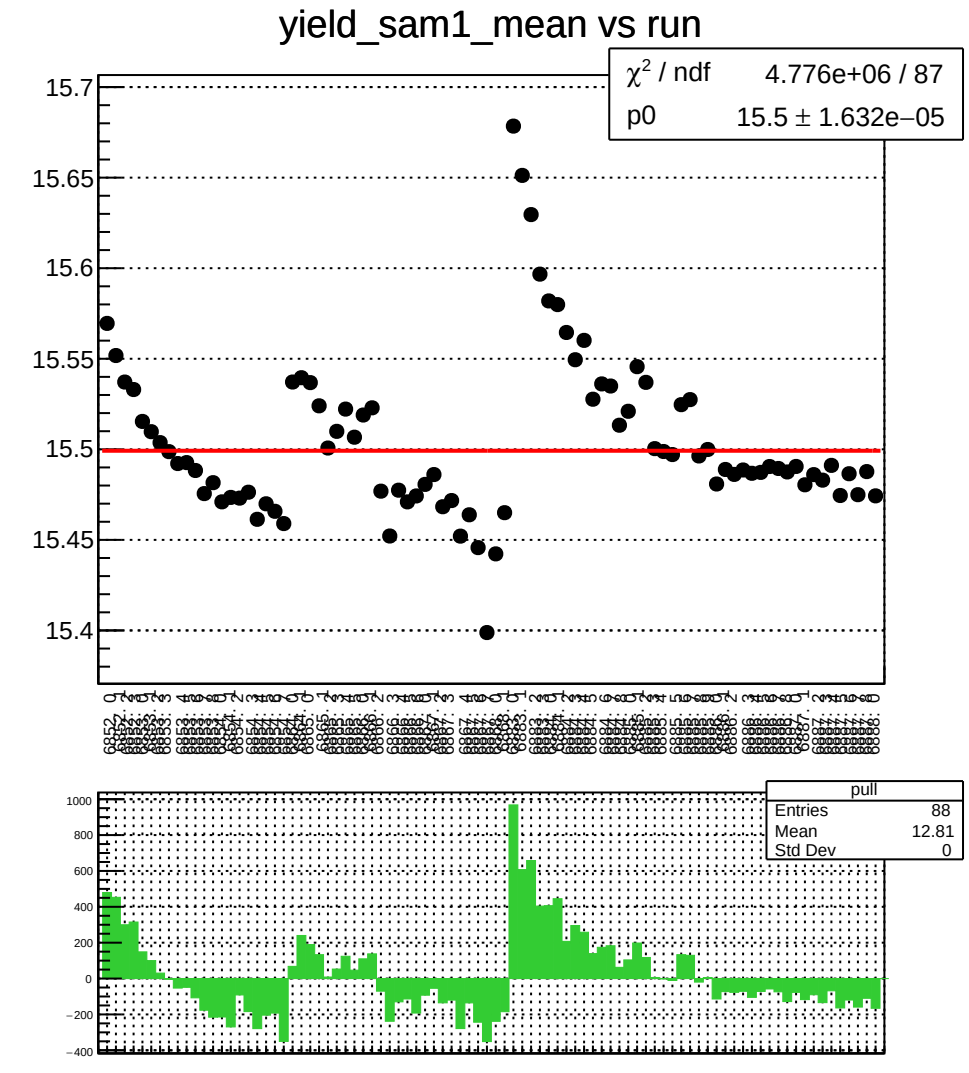

pull1D
Entries 88
Mean −0.005511
Std Dev 1.122

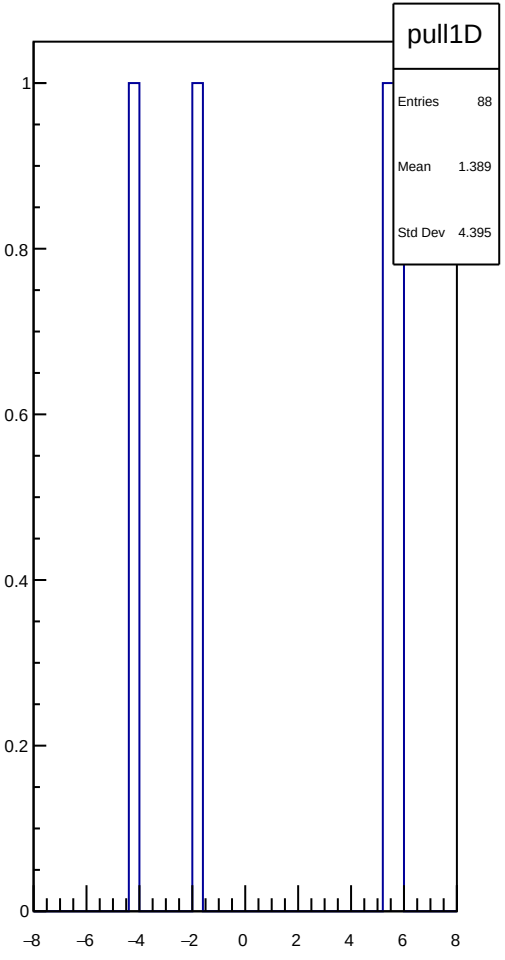

diff_bpm1i06X_rms vs run
χ² / ndf 6.826e+04 / 87
p0 1797 ± 1.411
2400
2200
2000
1800
1600
1400

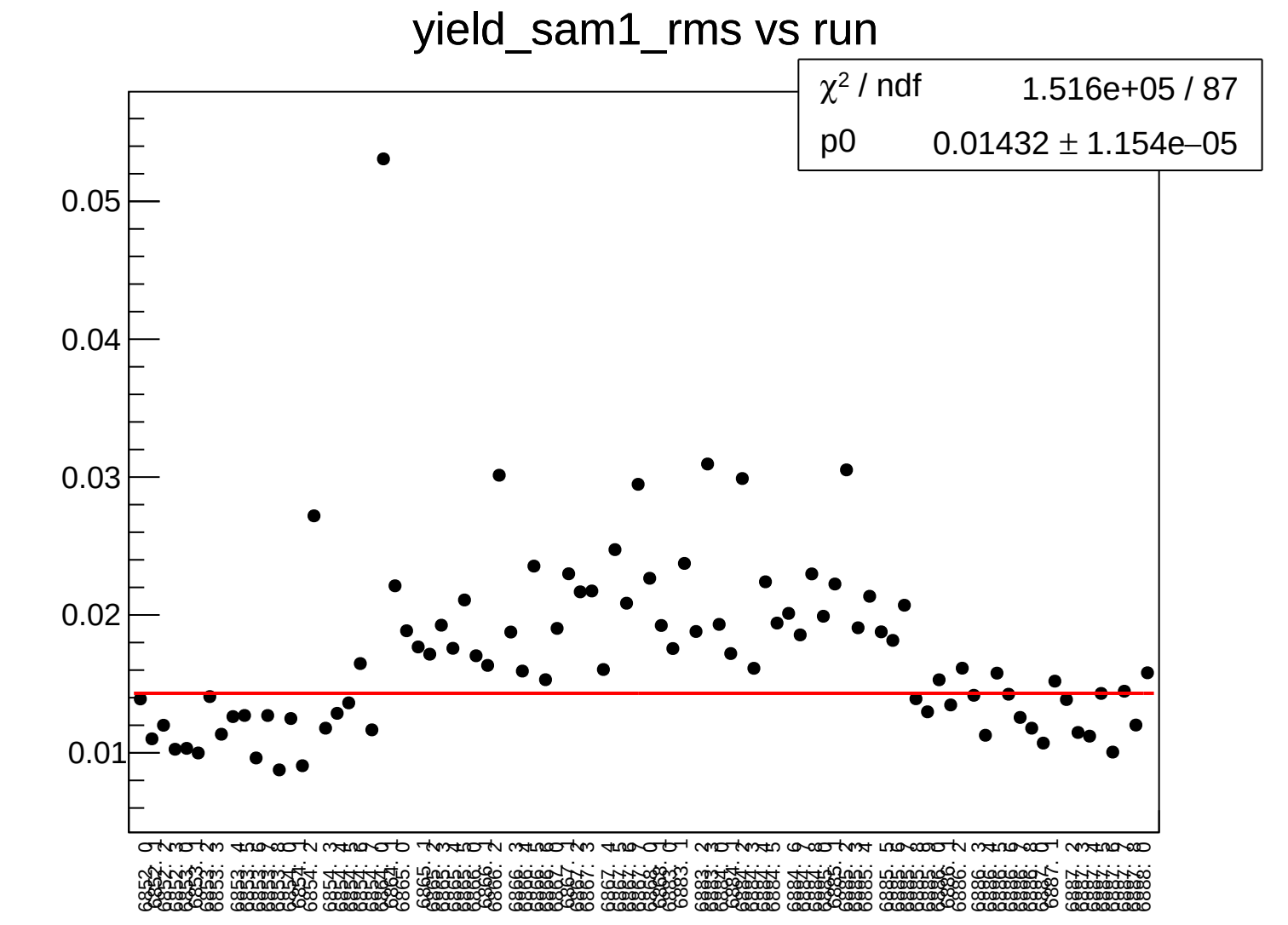

diff_bpm1i06Y_mean vs run
χ² / ndf 108.9 / 87
p0 −2.469 ± 2.684
100
50
0
−50
−100
pull
Entries 88
Mean −92.32
Std Dev 0
2
1
0
−1
−2

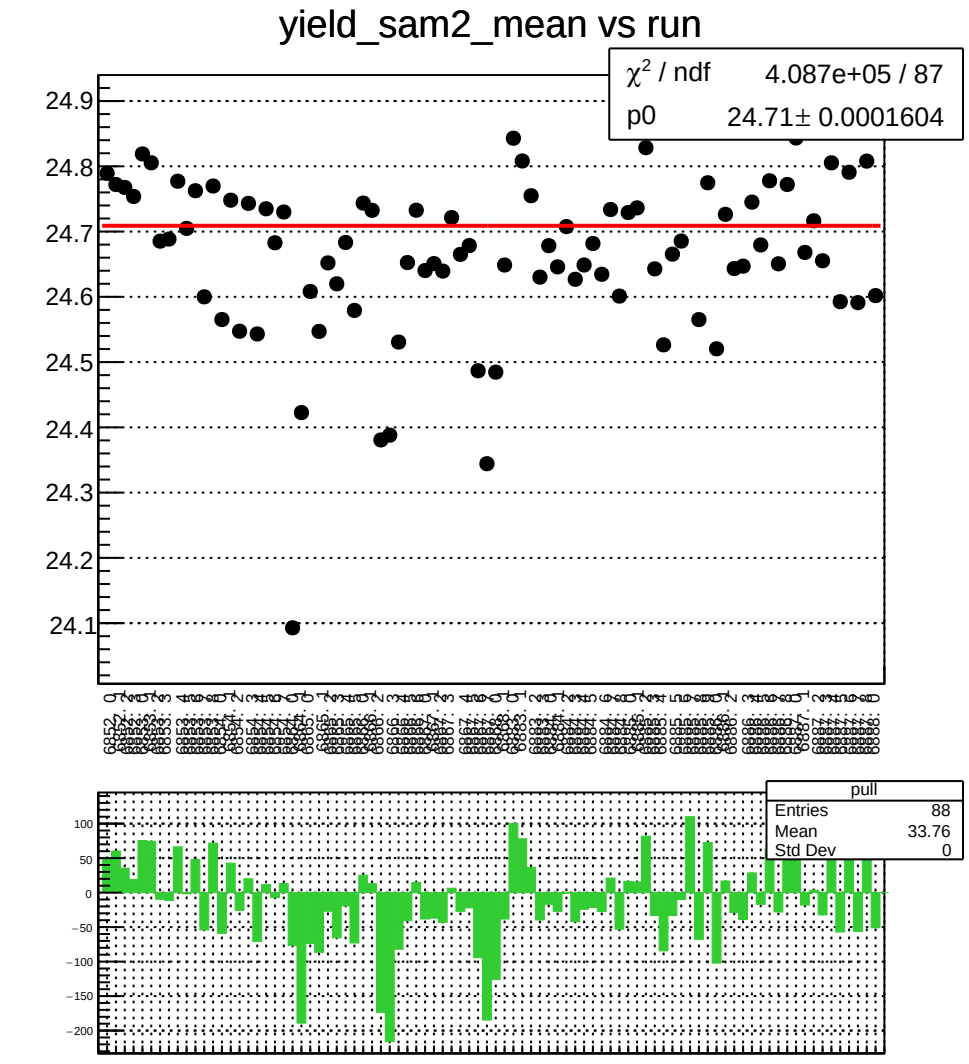

pull1D
Entries 88
Mean −0.00503
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

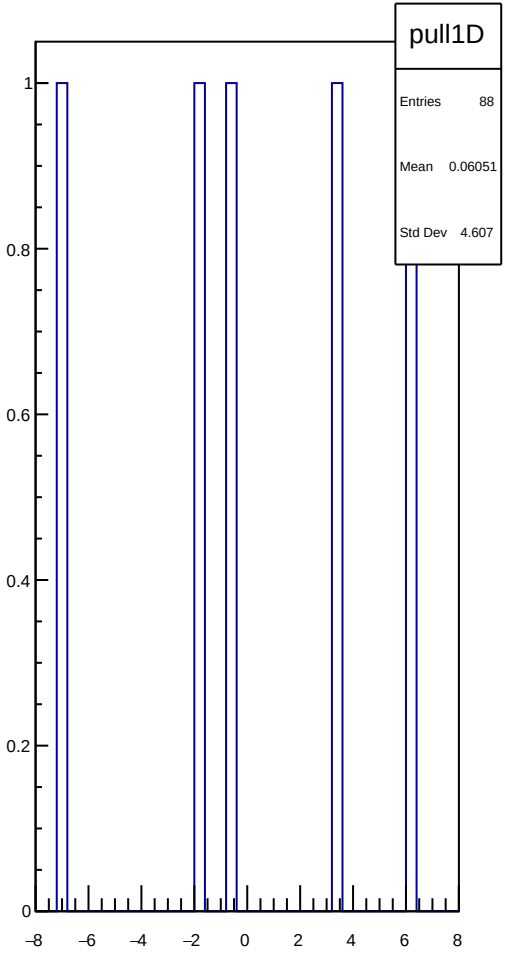

diff_bpm1i06Y_rms vs run
χ² / ndf 1.776e+04 / 87
p0 2455 ± 1.898
3000
2800
2600
2400
2200
2000
1800

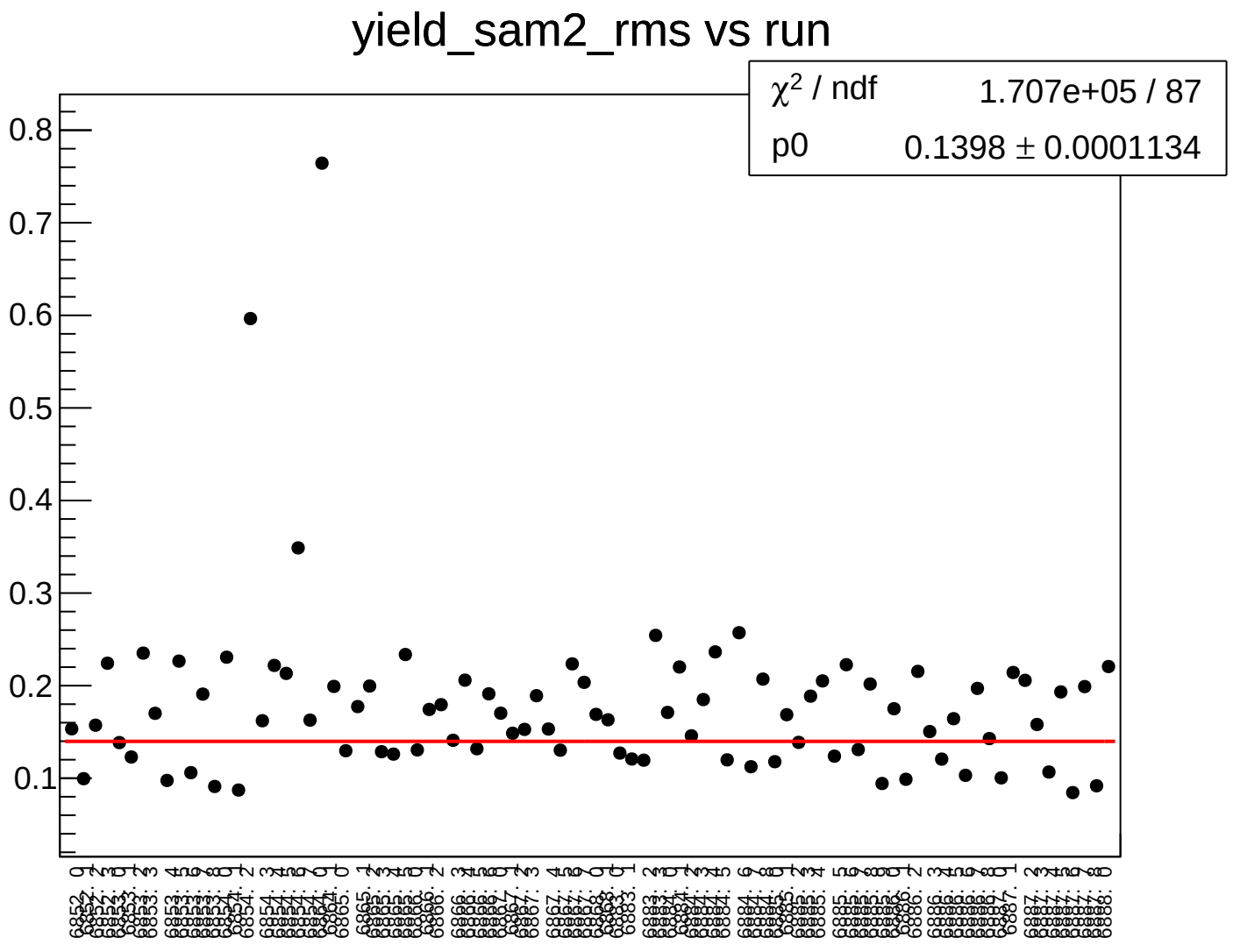

yield_sam1_mean vs run
χ² / ndf 4.776e+06 / 87
p0 15.5 ± 1.632e−05
15.7
15.65
15.6
15.55
15.5
15.45
15.4
pull
Entries 88
Mean 12.81
Std Dev 0
1000
800
600
400
200
0
−200
−400

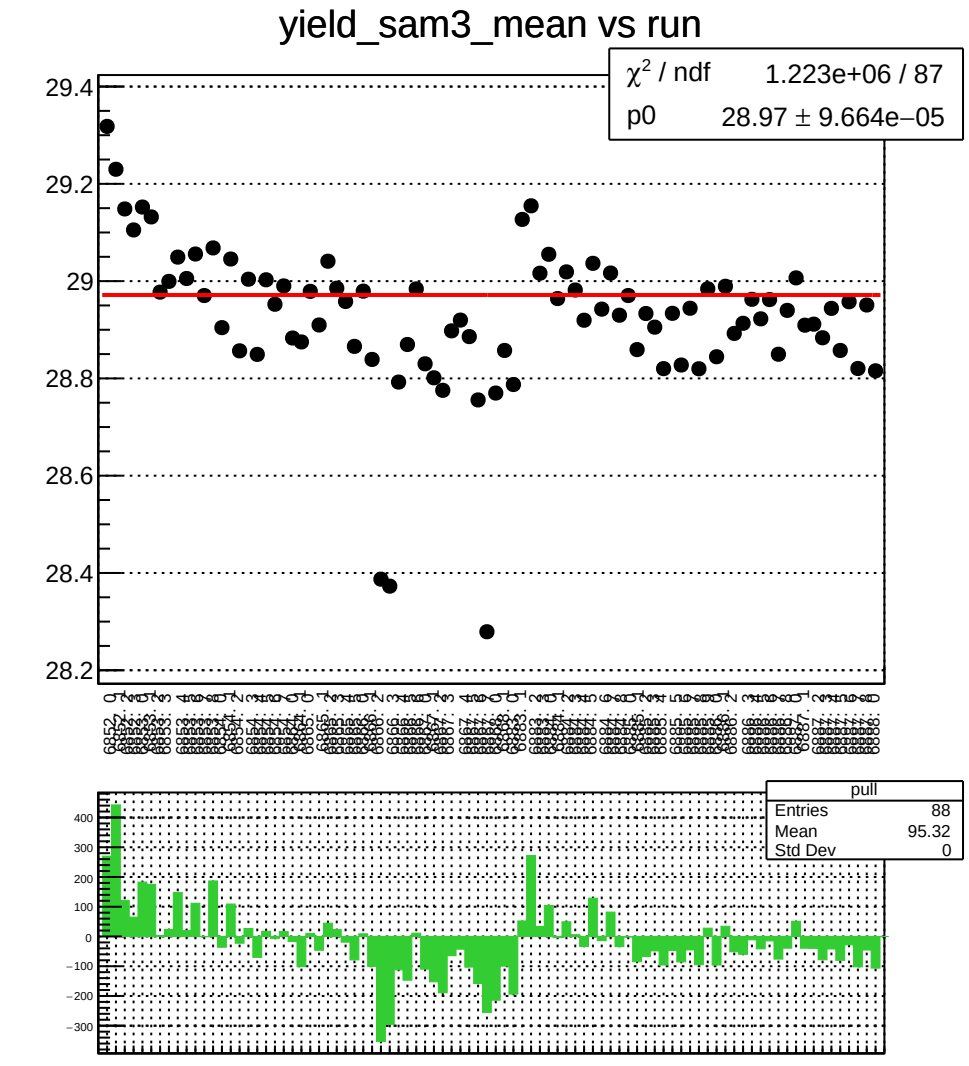

pull1D
Entries 88
Mean 1.389
Std Dev 4.395
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

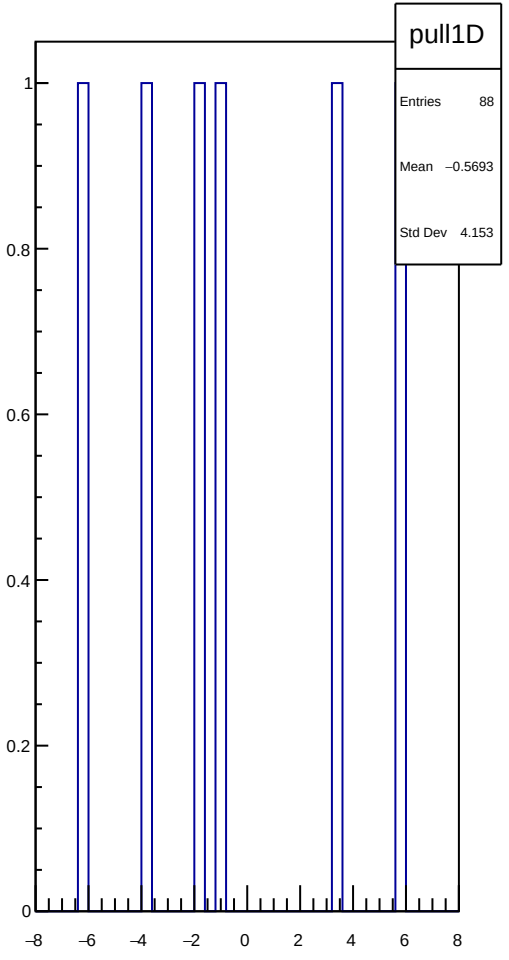

yield_sam1_rms vs run
χ² / ndf 1.516e+05 / 87
p0 0.01432 ± 1.154e−05
0.05
0.04
0.03
0.02
0.01

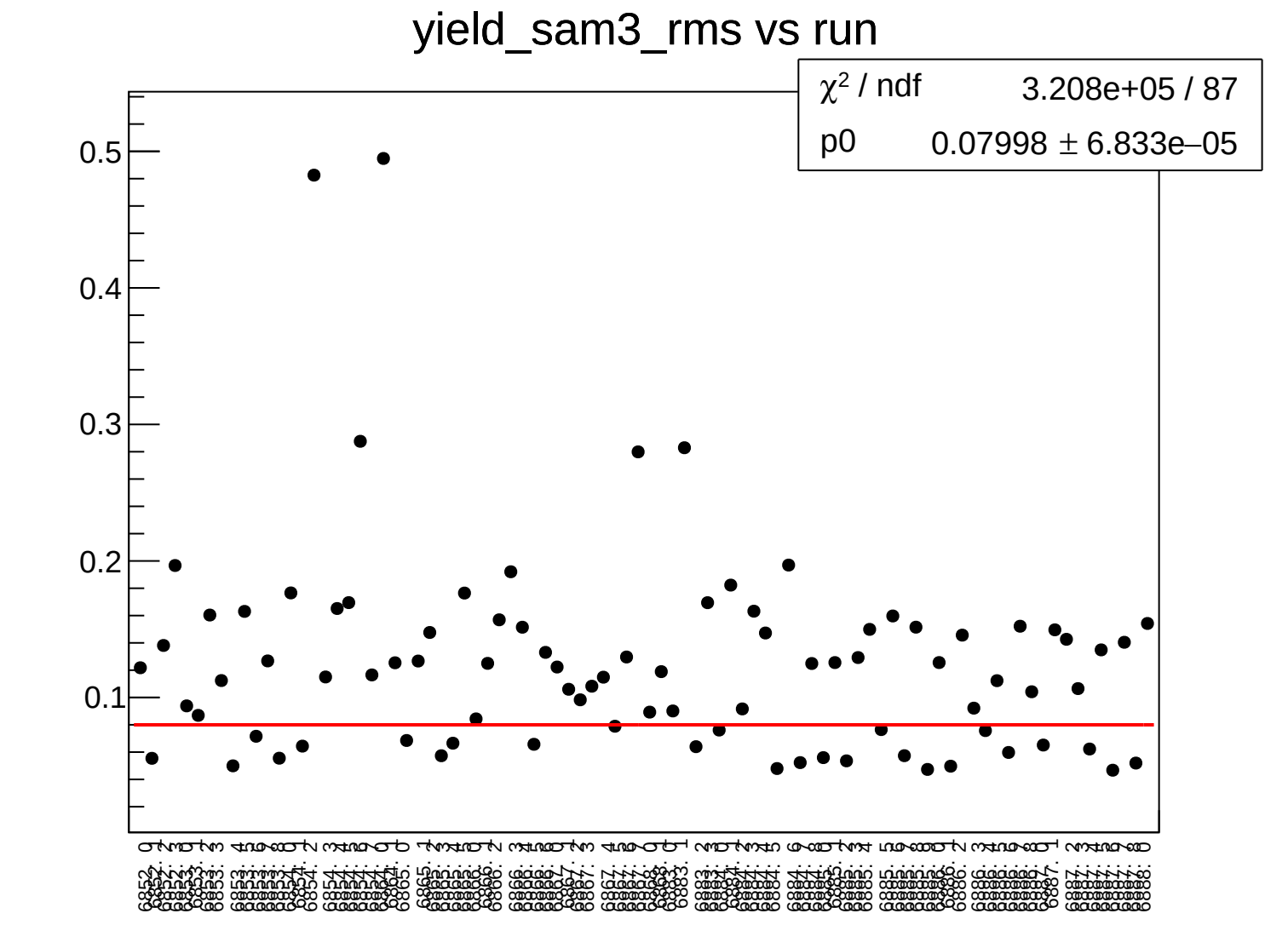

yield_sam2_mean vs run
χ² / ndf 4.087e+05 / 87
p0 24.71± 0.0001604
24.9
24.8
24.7
24.6
24.5
24.4
24.3
24.2
24.1
pull
Entries 88
Mean 33.76
Std Dev 0
100
50
0
−50
−100
−150
−200

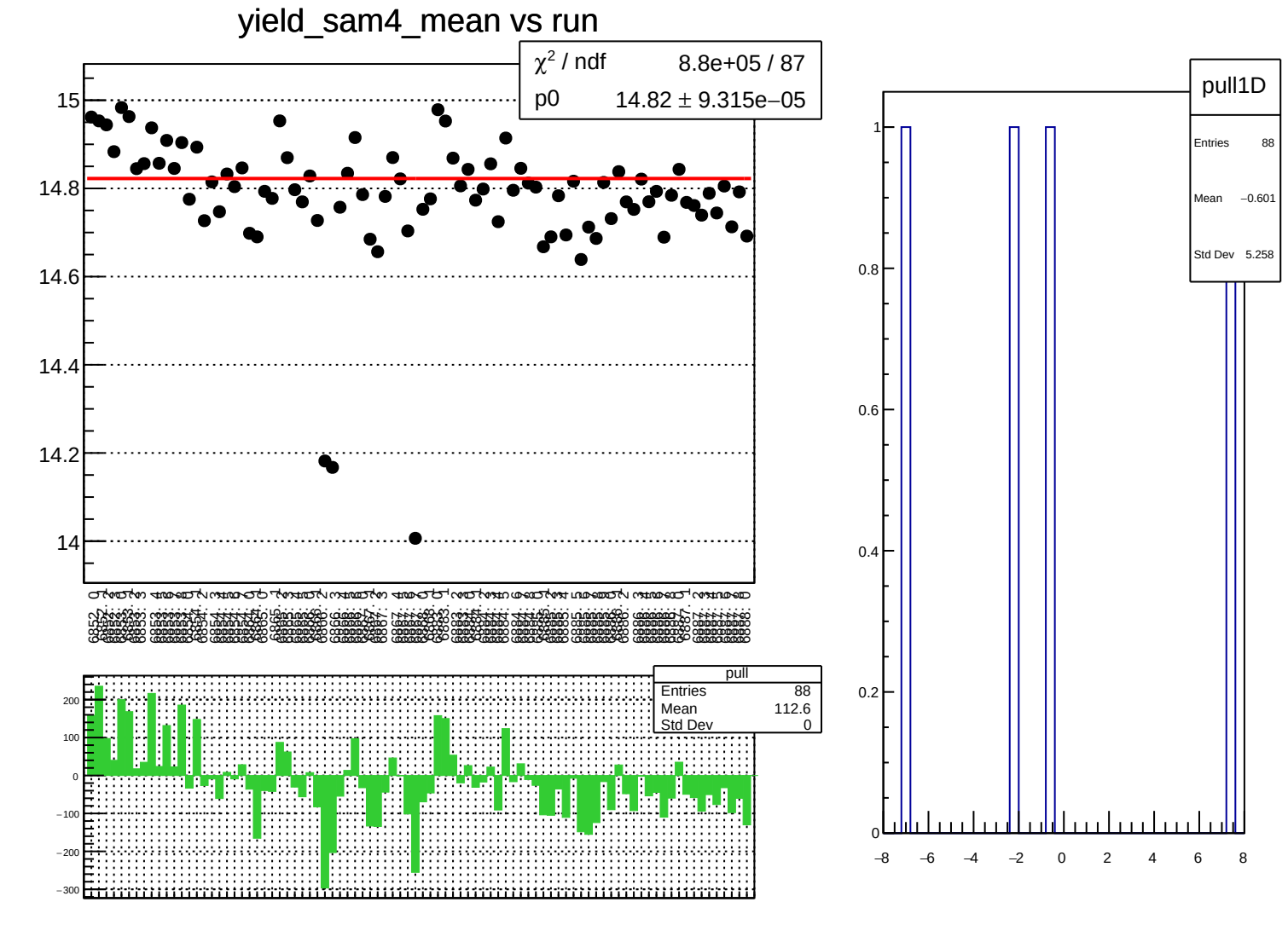

pull1D
Entries 88
Mean 0.06051
Std Dev 4.607
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

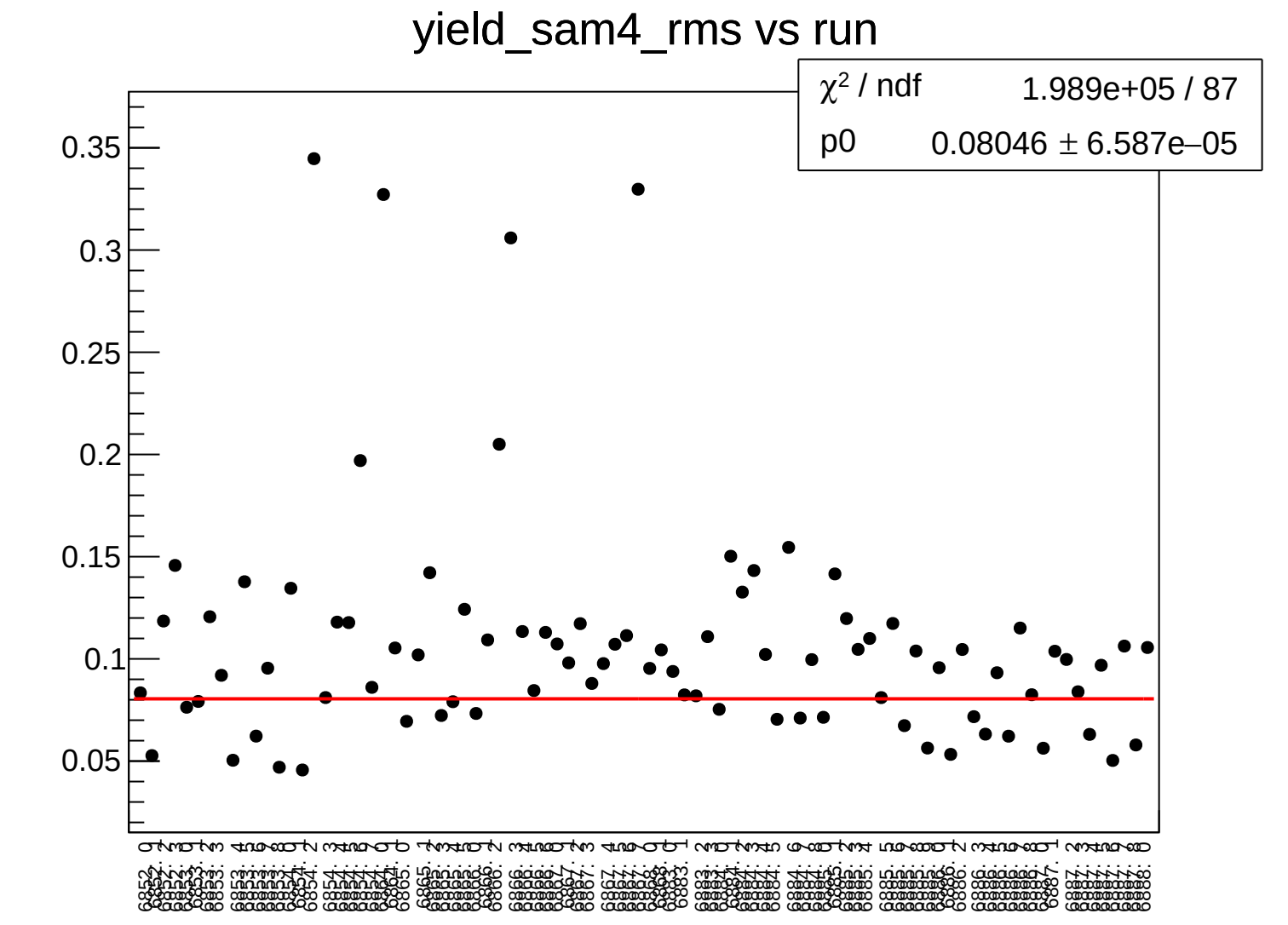

yield_sam2_rms vs run
χ² / ndf 1.707e+05 / 87
p0 0.1398 ± 0.0001134
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

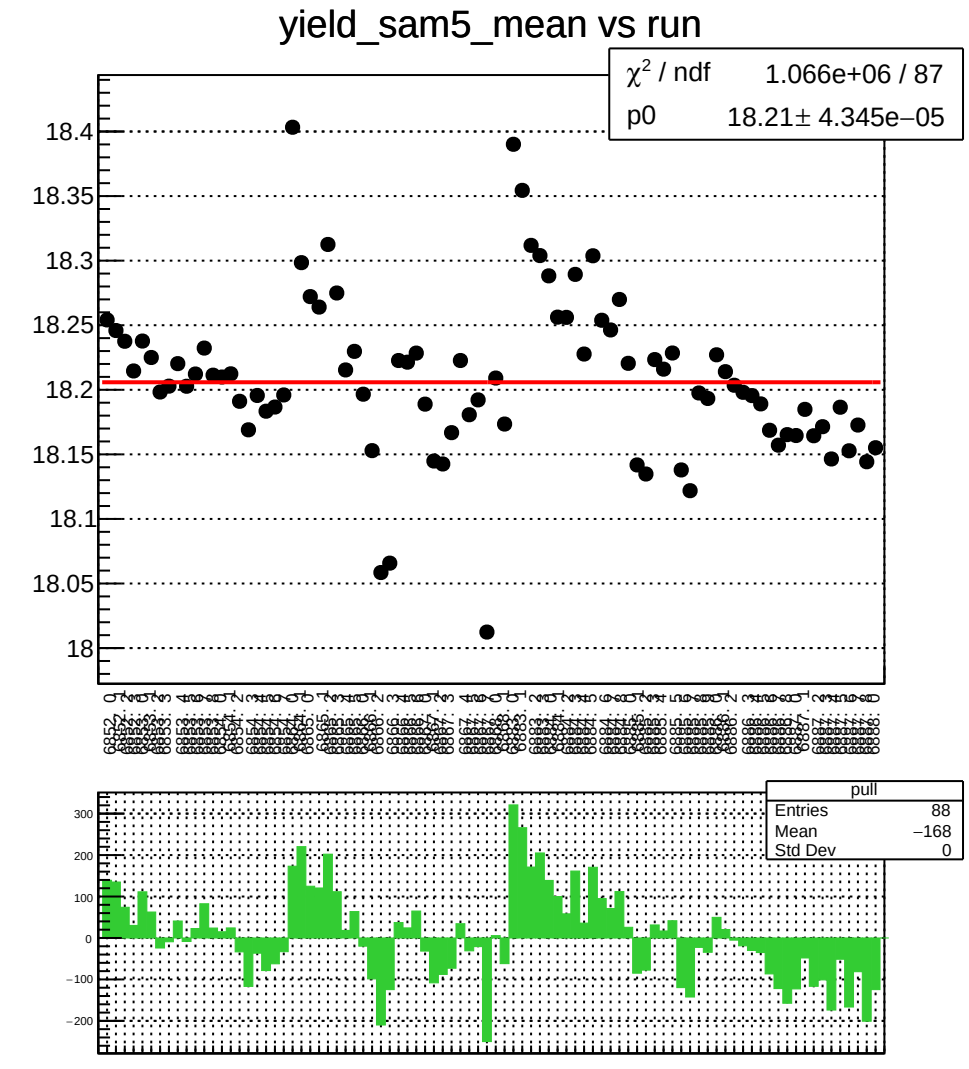

yield_sam3_mean vs run
χ² / ndf 1.223e+06 / 87
p0 28.97 ± 9.664e−05
29.4
29.2
29
28.8
28.6
28.4
28.2
pull
Entries 88
Mean 95.32
Std Dev 0
400
300
200
100
0
−100
−200
−300

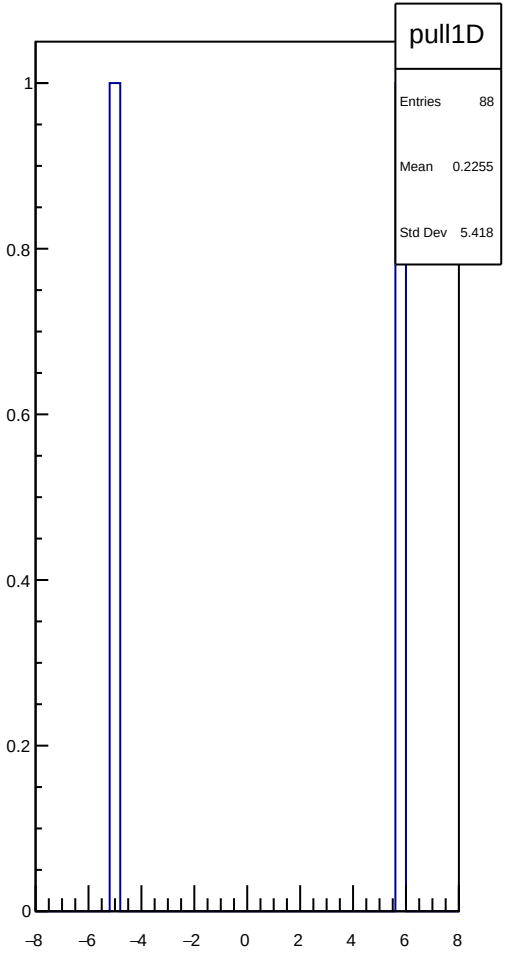

pull1D
Entries 88
Mean −0.5693
Std Dev 4.153
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

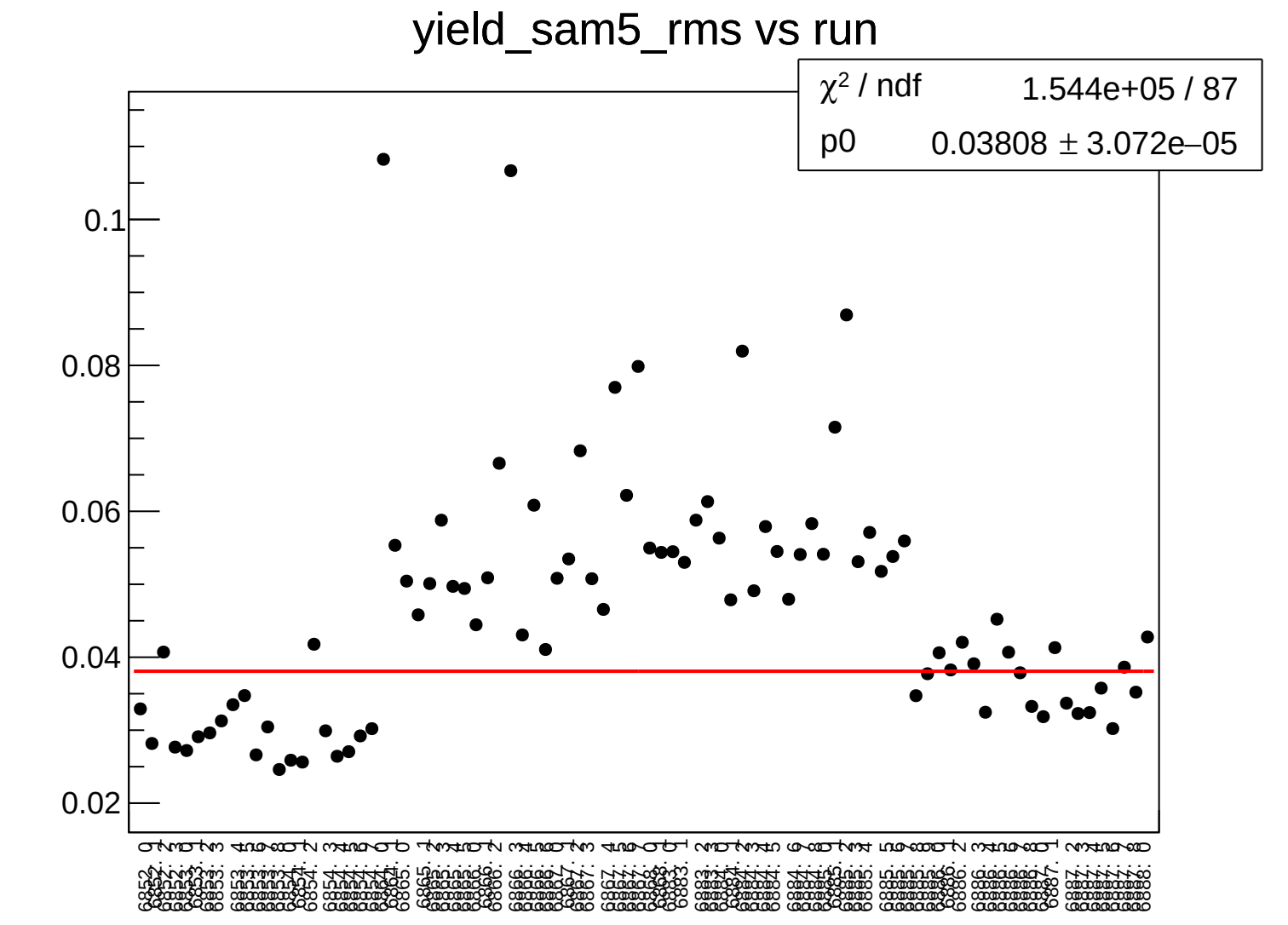

yield_sam3_rms vs run
χ² / ndf 3.208e+05 / 87
p0 0.07998 ± 6.833e–05
0.5
0.4
0.3
0.2
0.1

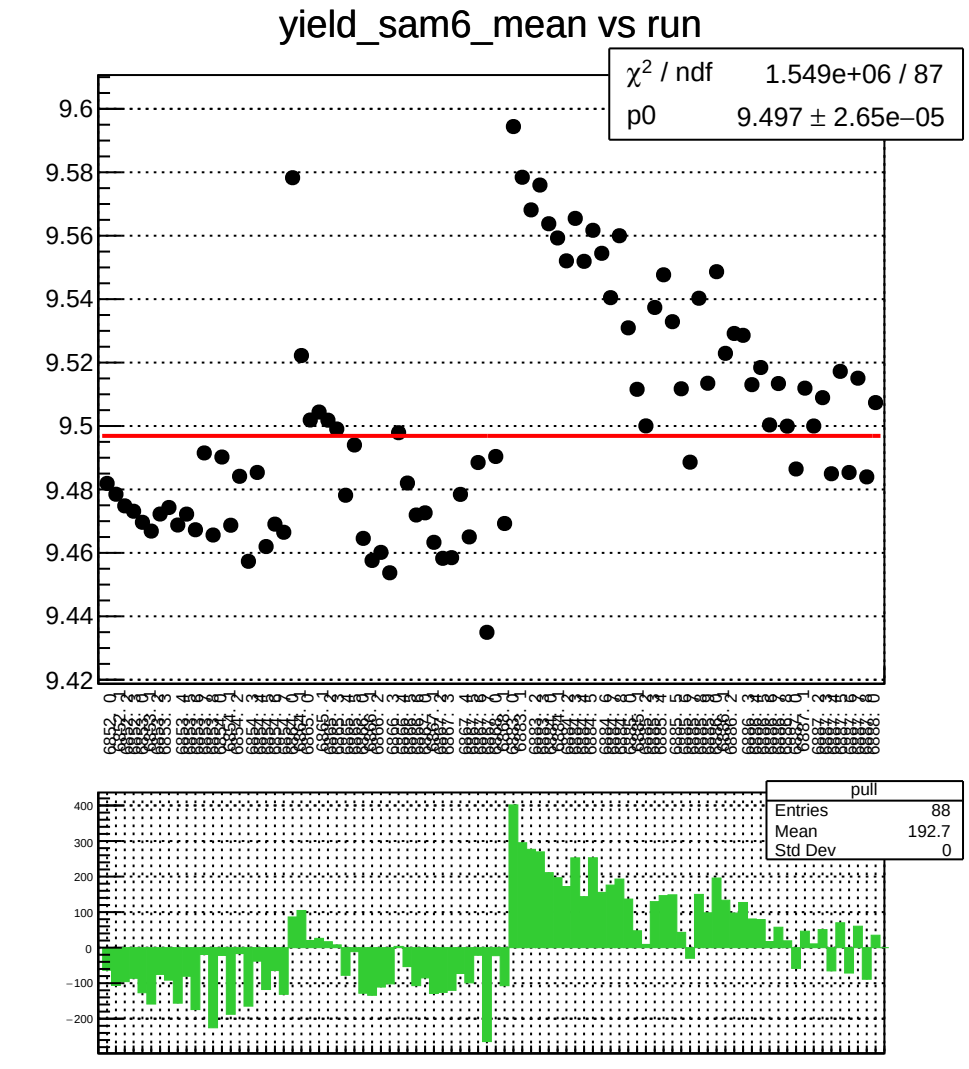

yield_sam4_mean vs run
χ² / ndf 8.8e+05 / 87
p0 14.82 ± 9.315e−05
15
14.8
14.6
14.4
14.2
14
pull
Entries 88
Mean 112.6
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 88
Mean −0.601
Std Dev 5.258
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

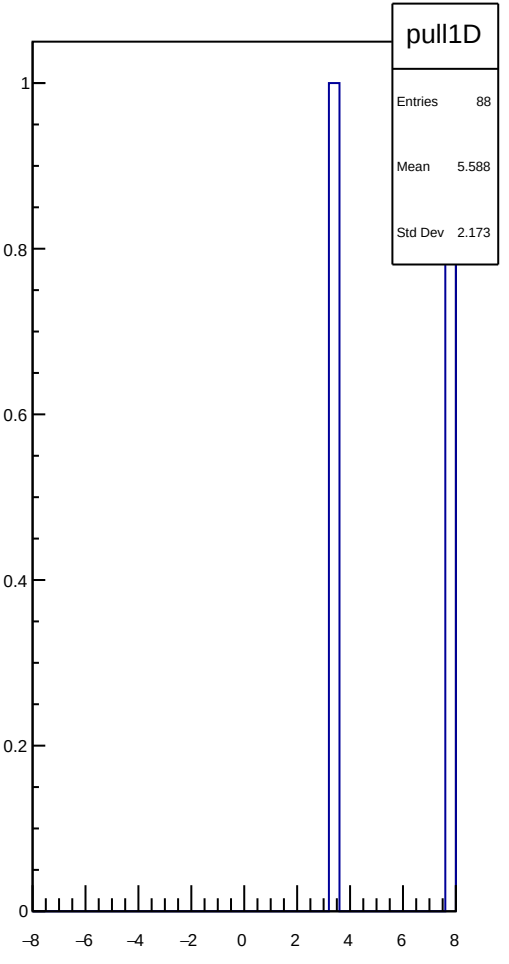

yield_sam4_rms vs run
χ² / ndf 1.989e+05 / 87
p0 0.08046 ± 6.587e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

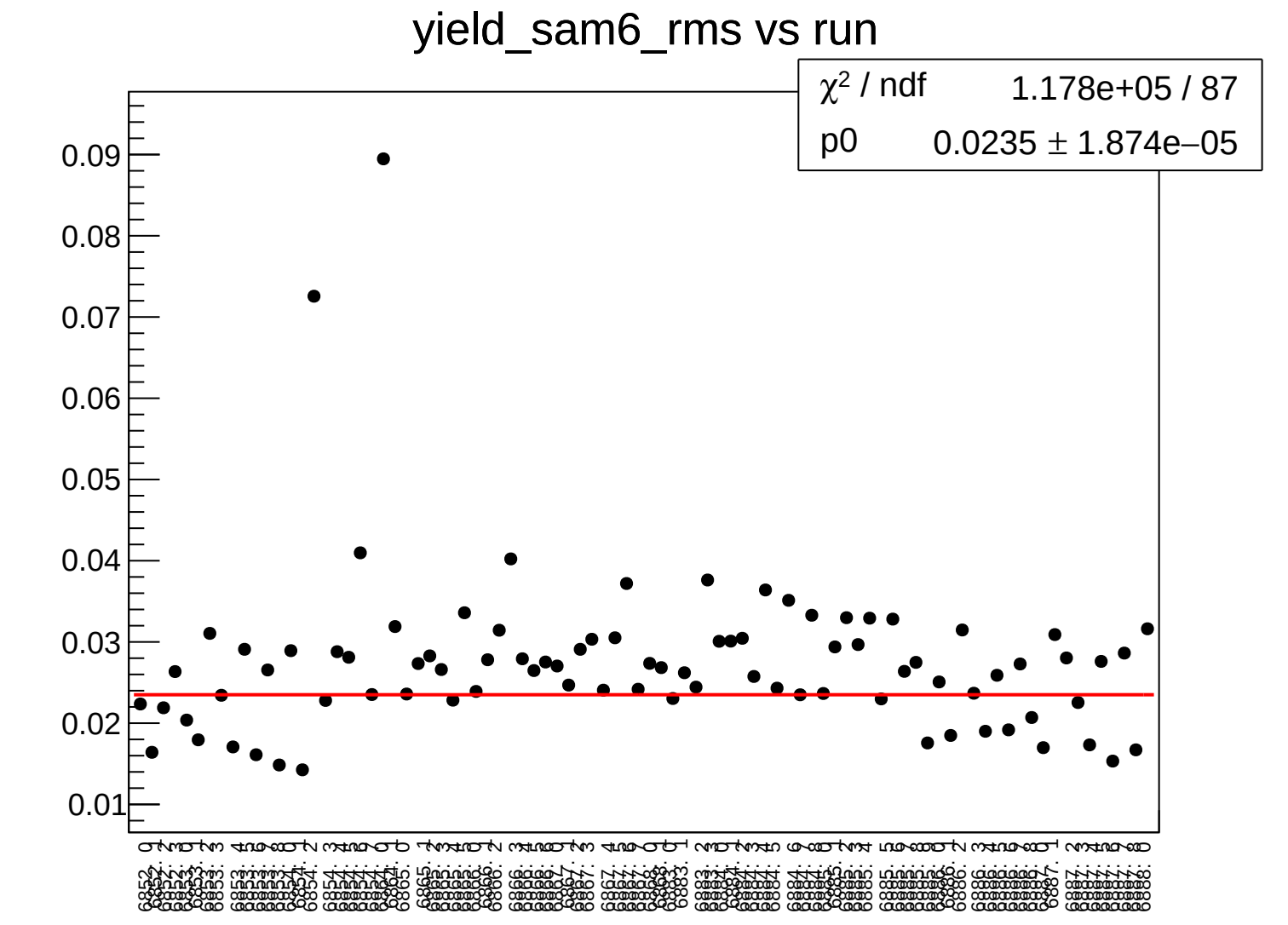

yield_sam5_mean vs run
χ² / ndf 1.066e+06 / 87
p0 18.21± 4.345e−05
18.4
18.35
18.3
18.25
18.2
18.15
18.1
18.05
18
pull
Entries 88
Mean −168
Std Dev 0
300
200
100
0
−100
−200

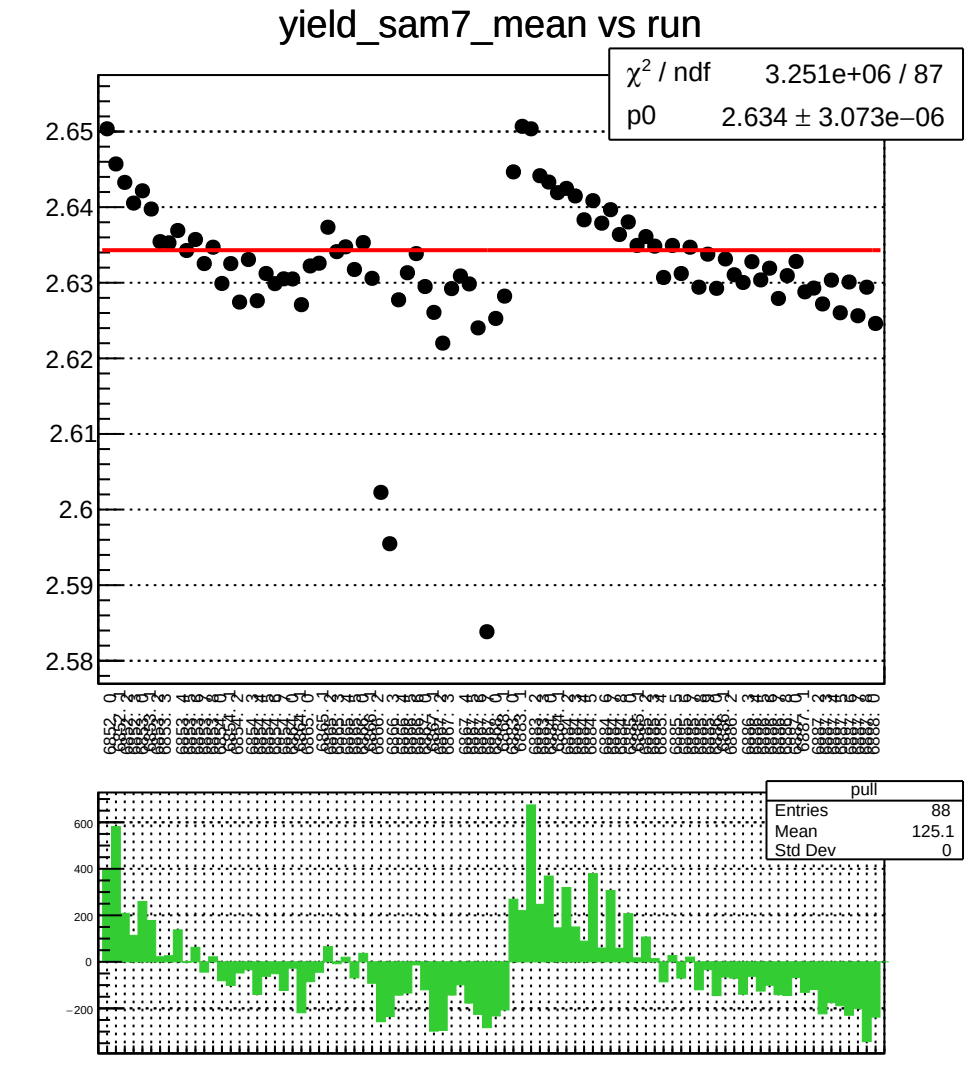

pull1D
Entries 88
Mean 0.2255
Std Dev 5.418
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

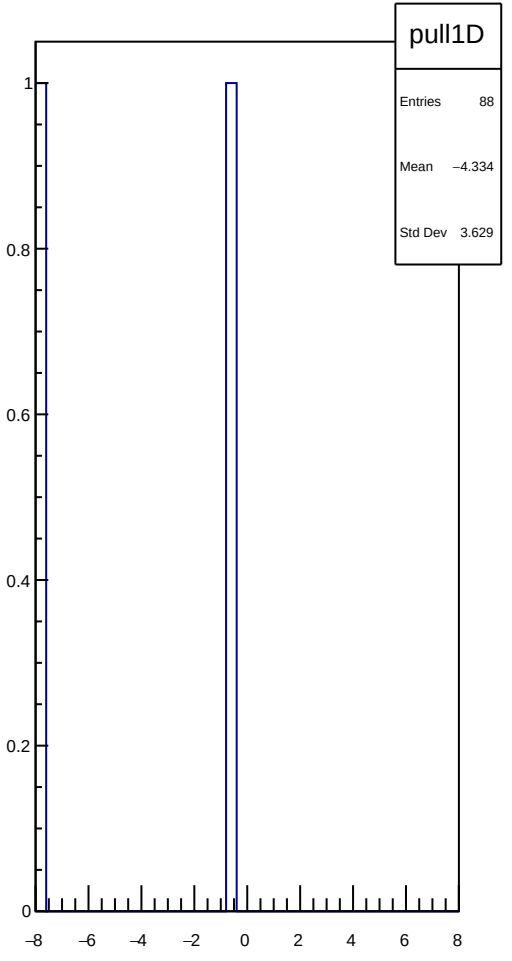

yield_sam5_rms vs run
χ² / ndf 1.544e+05 / 87
p0 0.03808 ± 3.072e–05
0.1
0.08
0.06
0.04
0.02

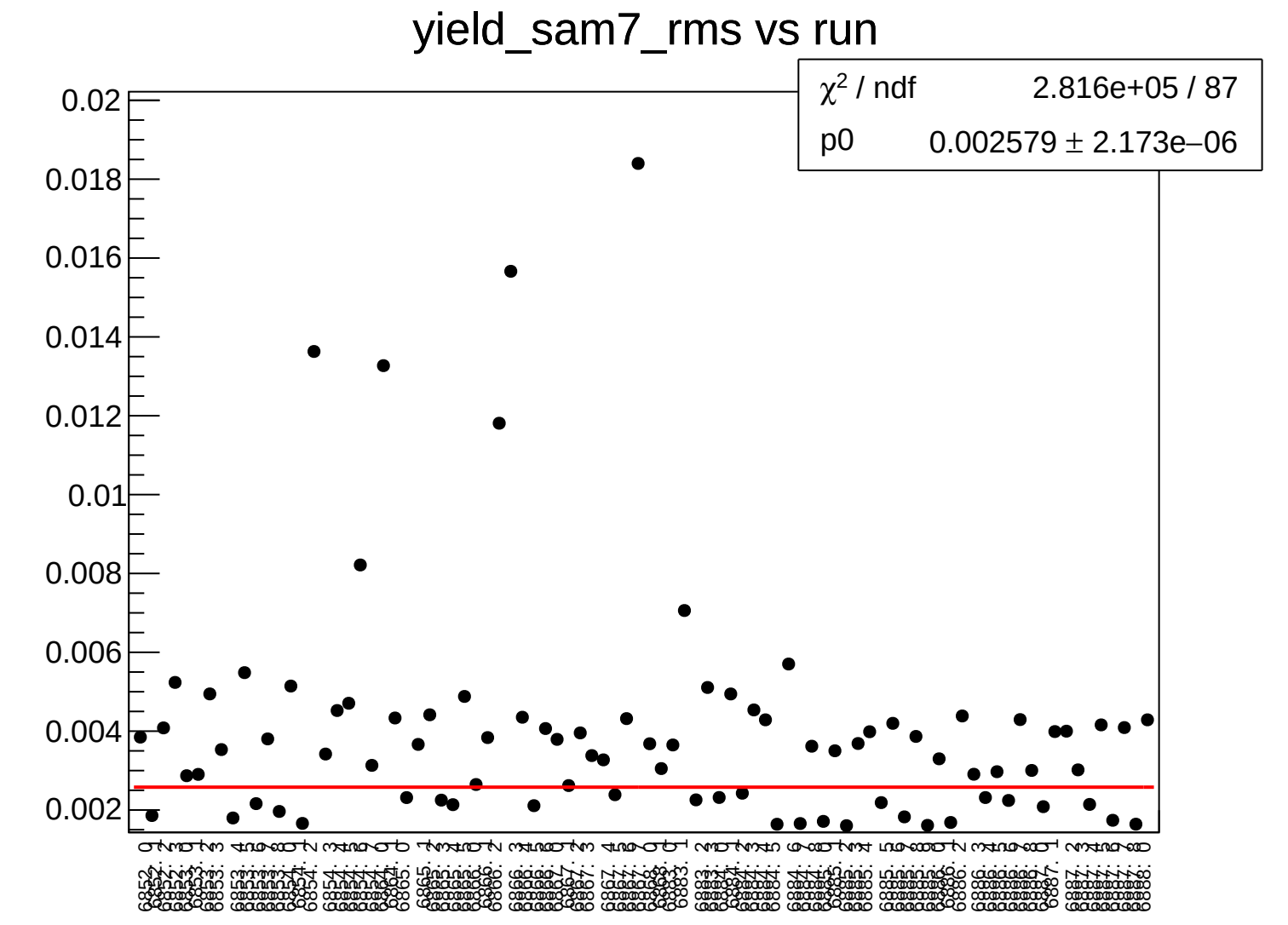

yield_sam6_mean vs run
χ² / ndf 1.549e+06 / 87
p0 9.497 ± 2.65e−05
9.6
9.58
9.56
9.54
9.52
9.5
9.48
9.46
9.44
9.42
pull
Entries 88
Mean 192.7
Std Dev 0
400
300
200
100
0
−100
−200

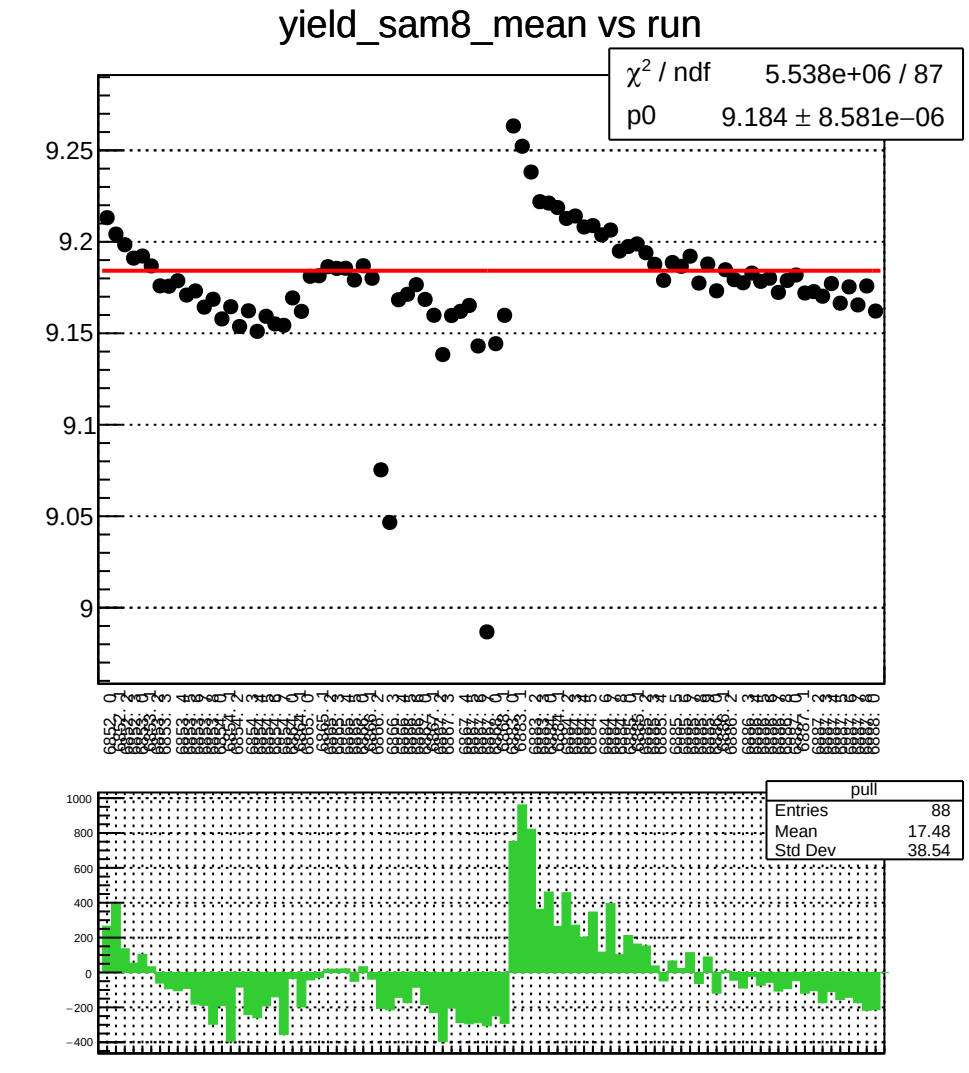

pull1D
Entries 88
Mean 5.588
Std Dev 2.173
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

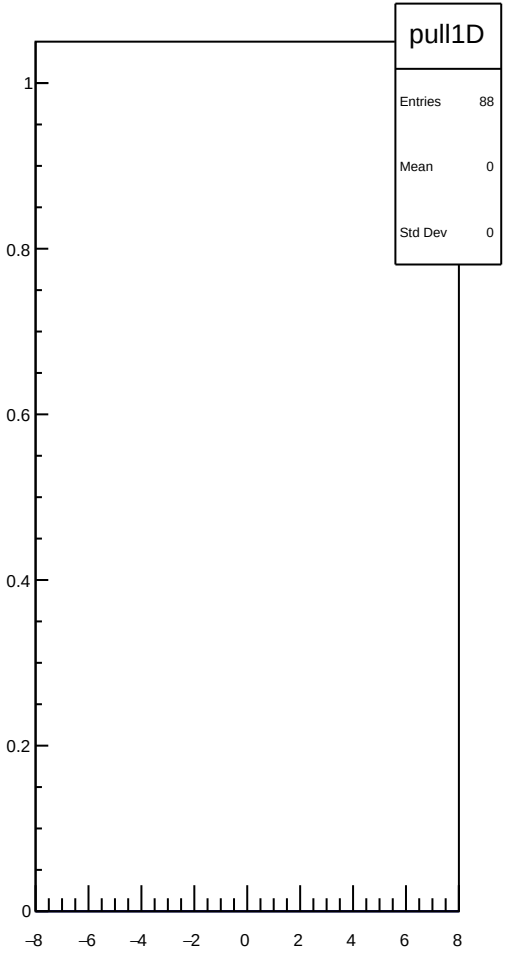

yield_sam6_rms vs run
χ² / ndf 1.178e+05 / 87
p0 0.0235 ± 1.874e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

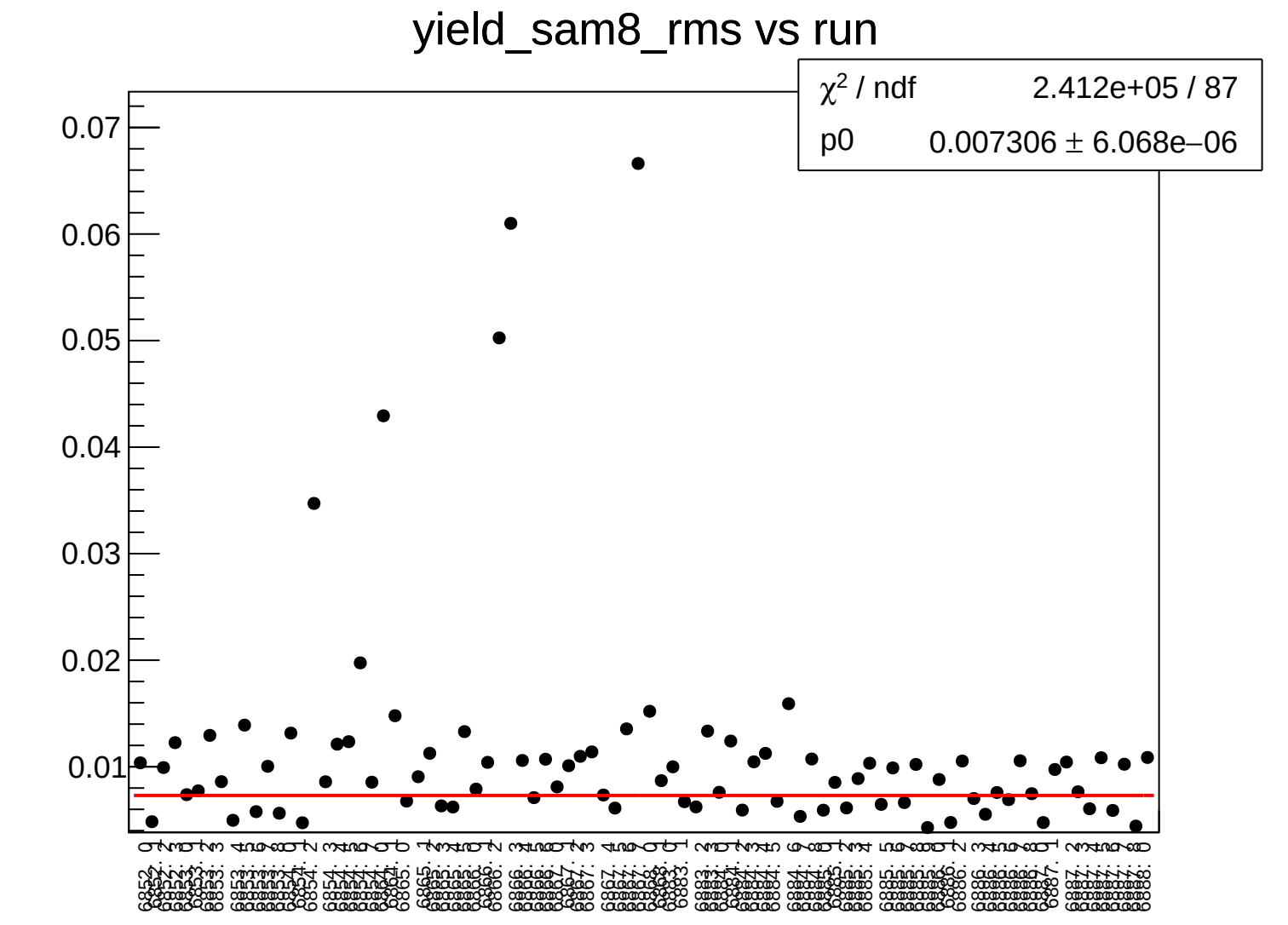

yield_sam7_mean vs run
χ² / ndf 3.251e+06 / 87
p0 2.634 ± 3.073e−06
2.65
2.64
2.63
2.62
2.61
2.6
2.59
2.58
pull
Entries 88
Mean 125.1
Std Dev 0
600
400
200
0
−200

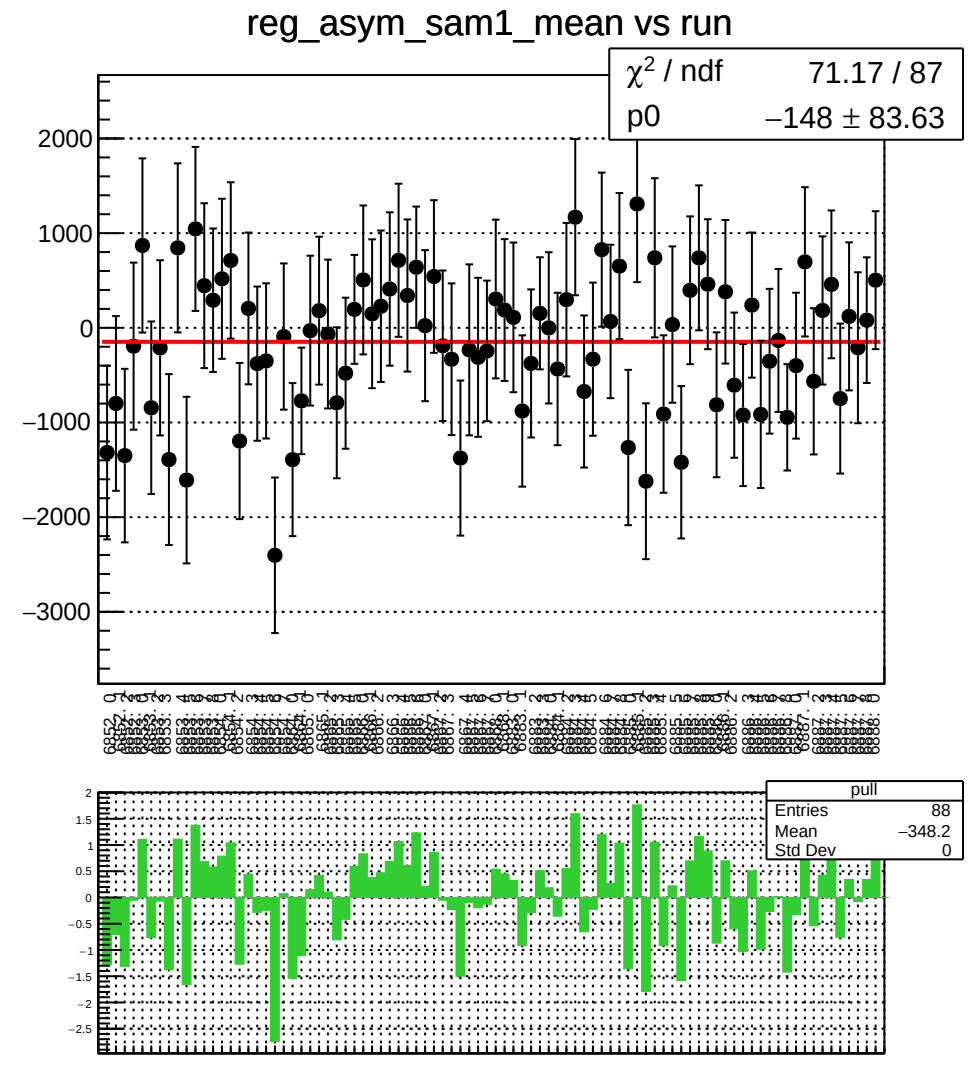

pull1D
Entries 88
Mean −4.334
Std Dev 3.629
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

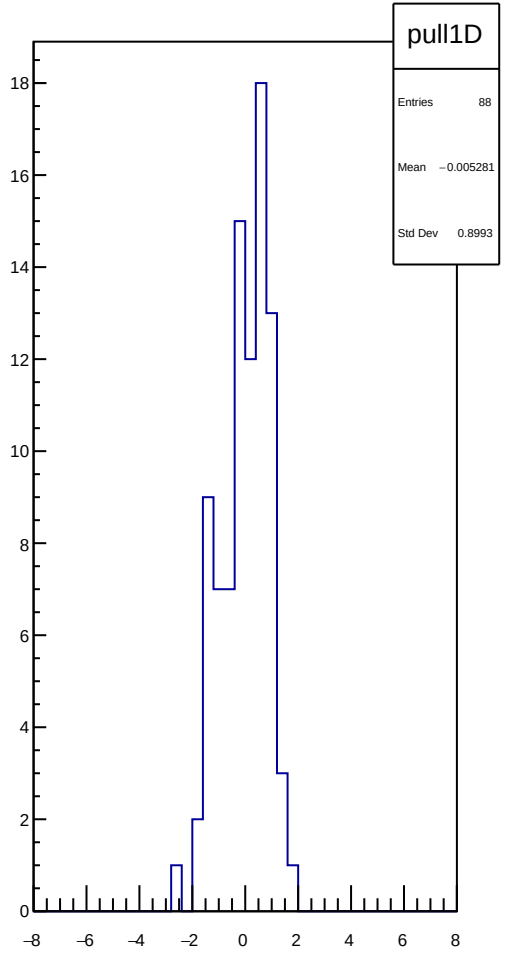

yield_sam7_rms vs run
χ² / ndf 2.816e+05 / 87
p0 0.002579 ± 2.173e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

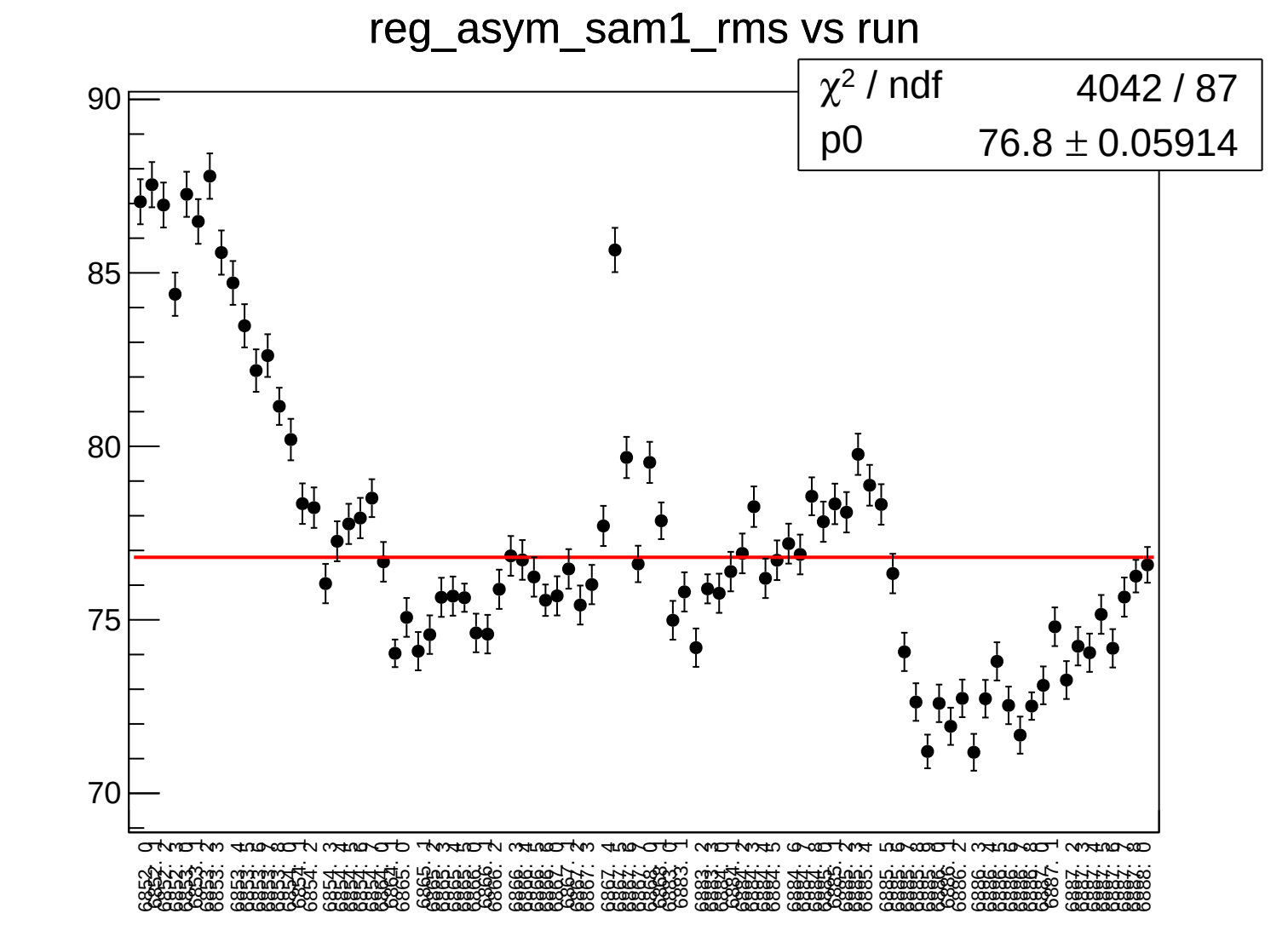

yield_sam8_mean vs run
χ² / ndf 5.538e+06 / 87
p0 9.184 ± 8.581e−06
9.25
9.2
9.15
9.1
9.05
9
pull
Entries 88
Mean 17.48
Std Dev 38.54
1000
800
600
400
200
0
−200
−400

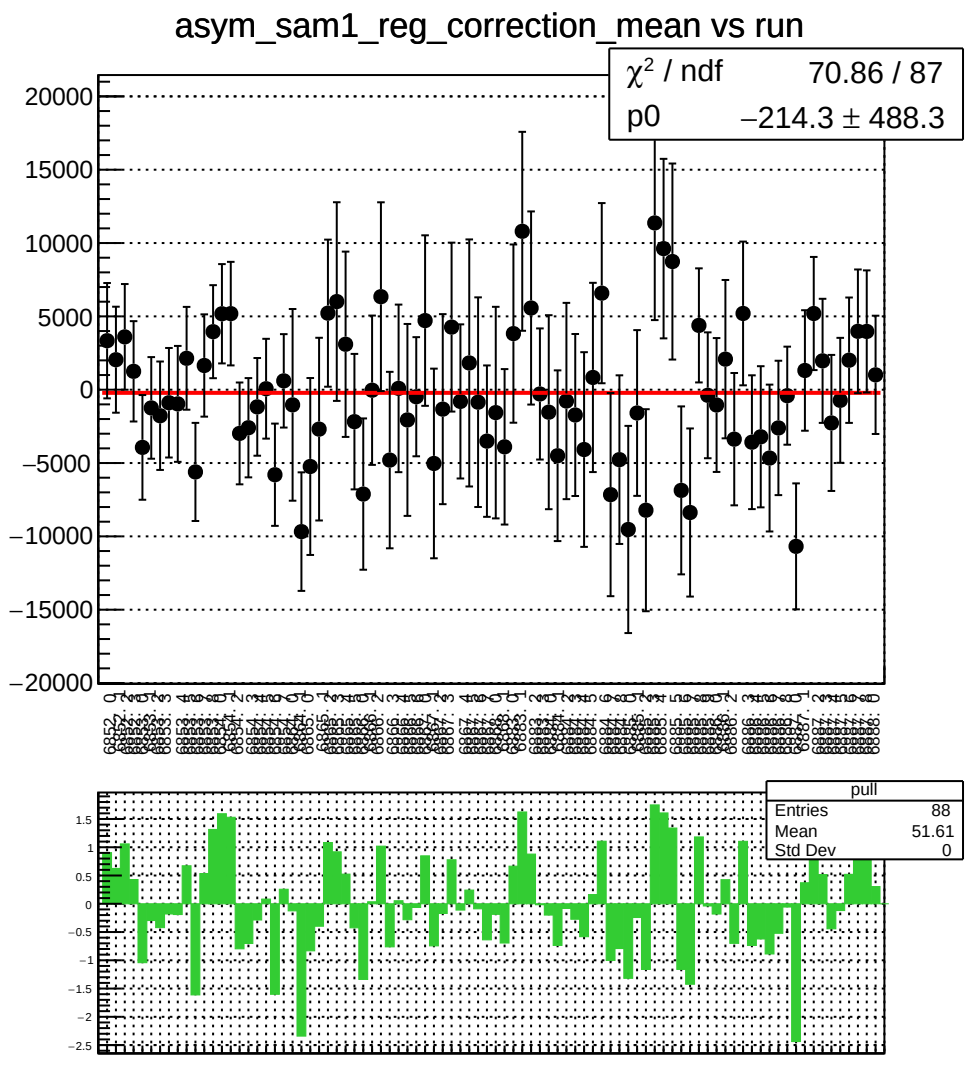

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

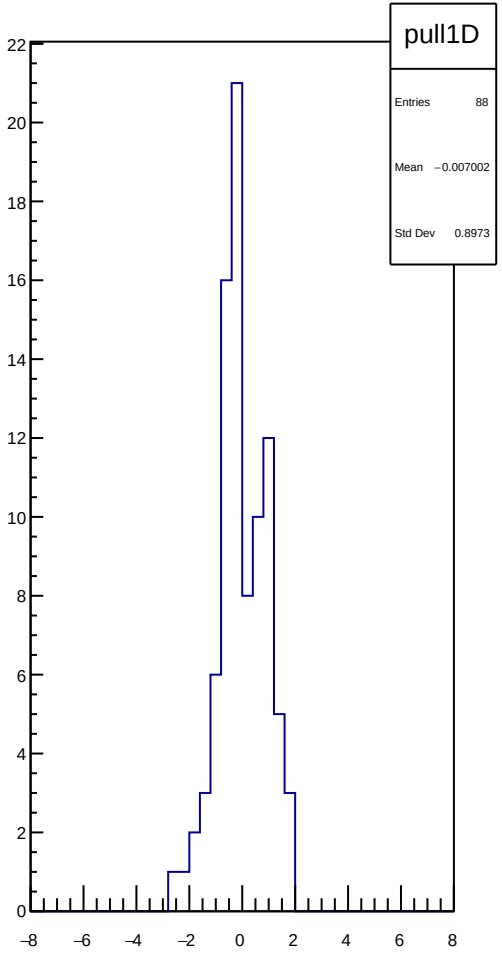

yield_sam8_rms vs run
χ² / ndf 2.412e+05 / 87
p0 0.007306 ± 6.068e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

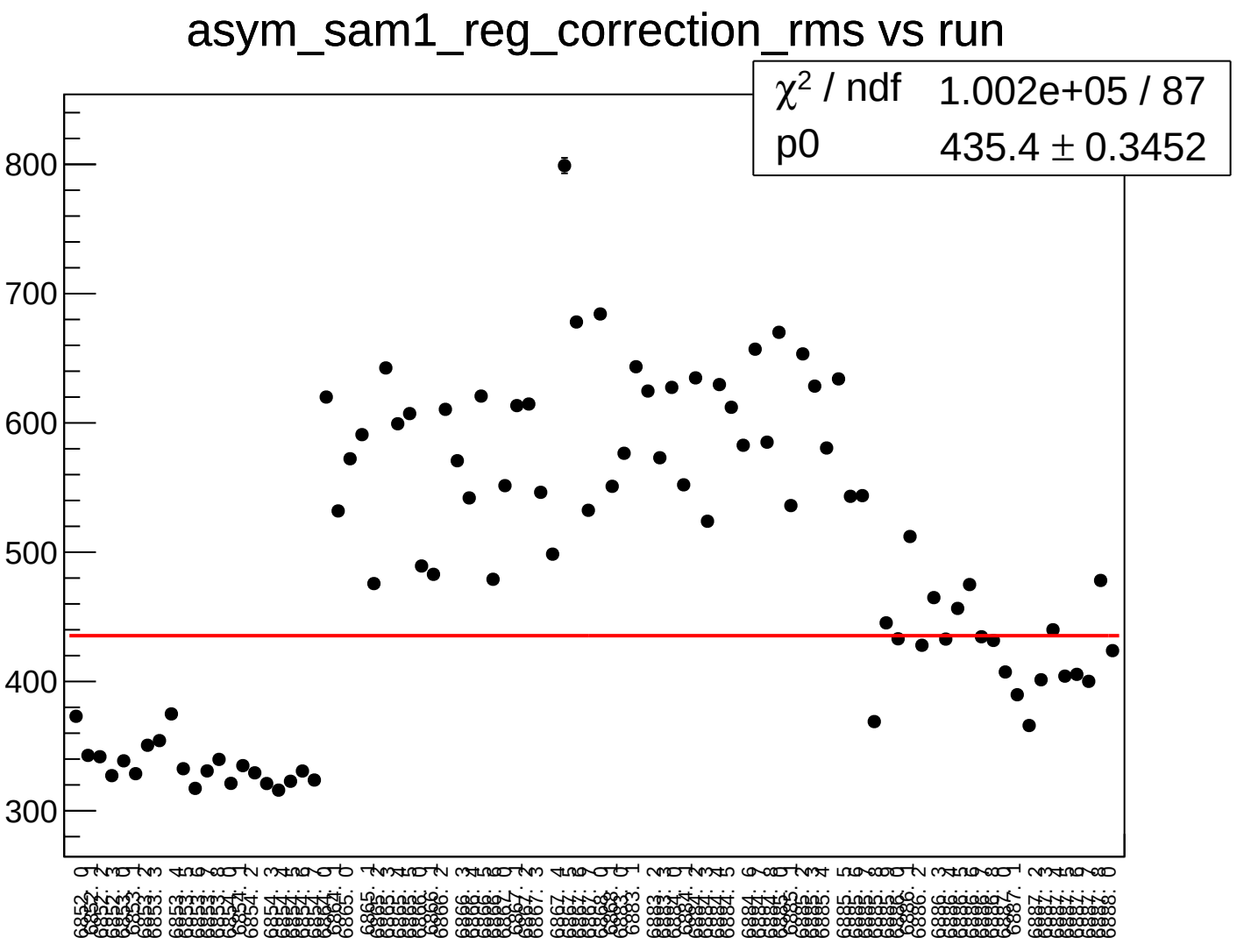

reg_asym_sam1_mean vs run
χ² / ndf 71.17 / 87
p0 −148 ± 83.63
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −348.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

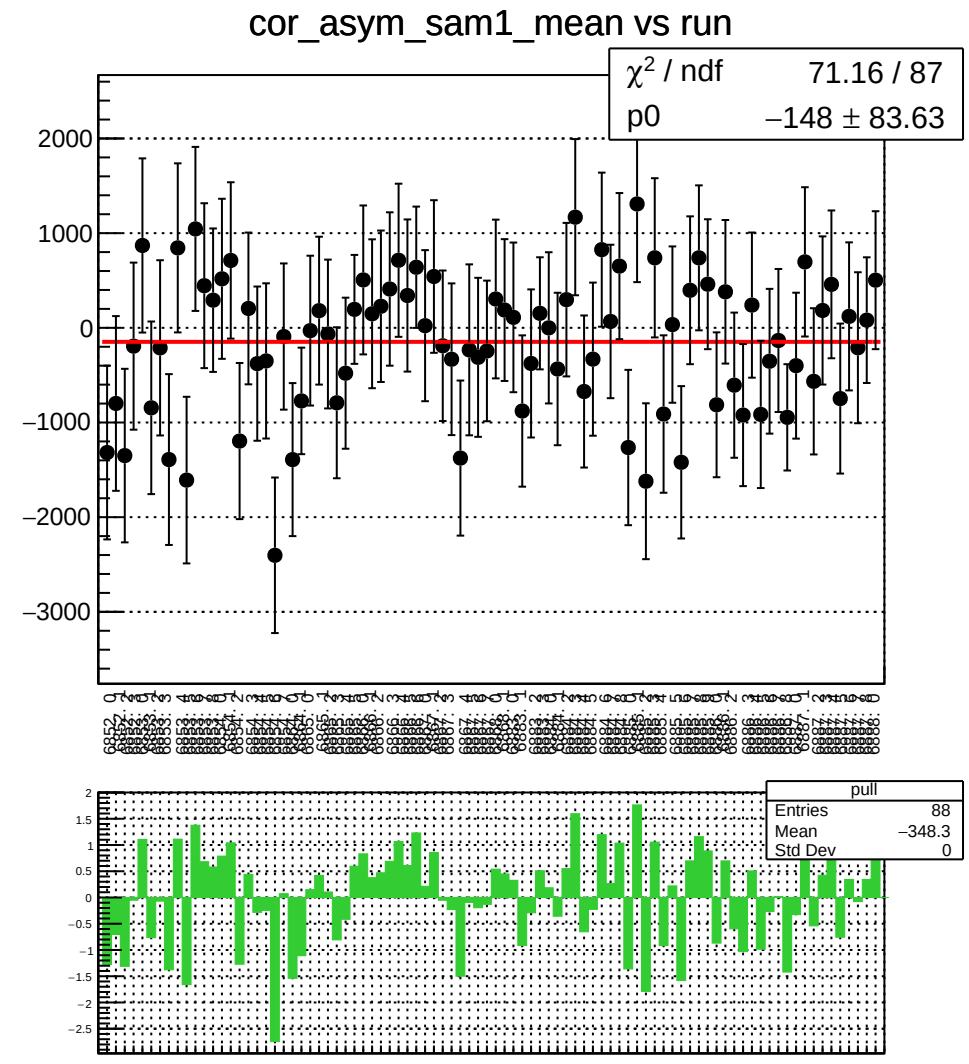

pull1D
Entries 88
Mean −0.005281
Std Dev 0.8993
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

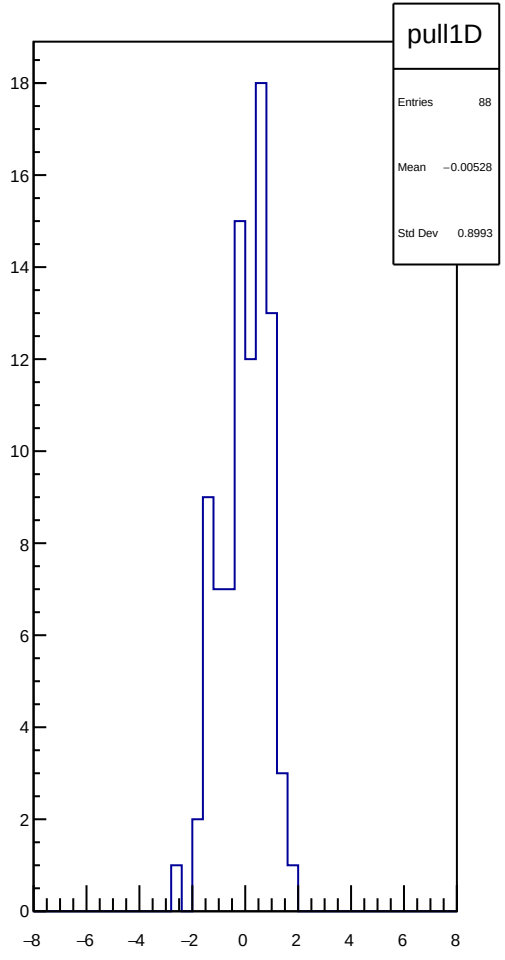

reg_asym_sam1_rms vs run
χ² / ndf 4042 / 87
p0 76.8 ± 0.05914
90
85
80
75
70

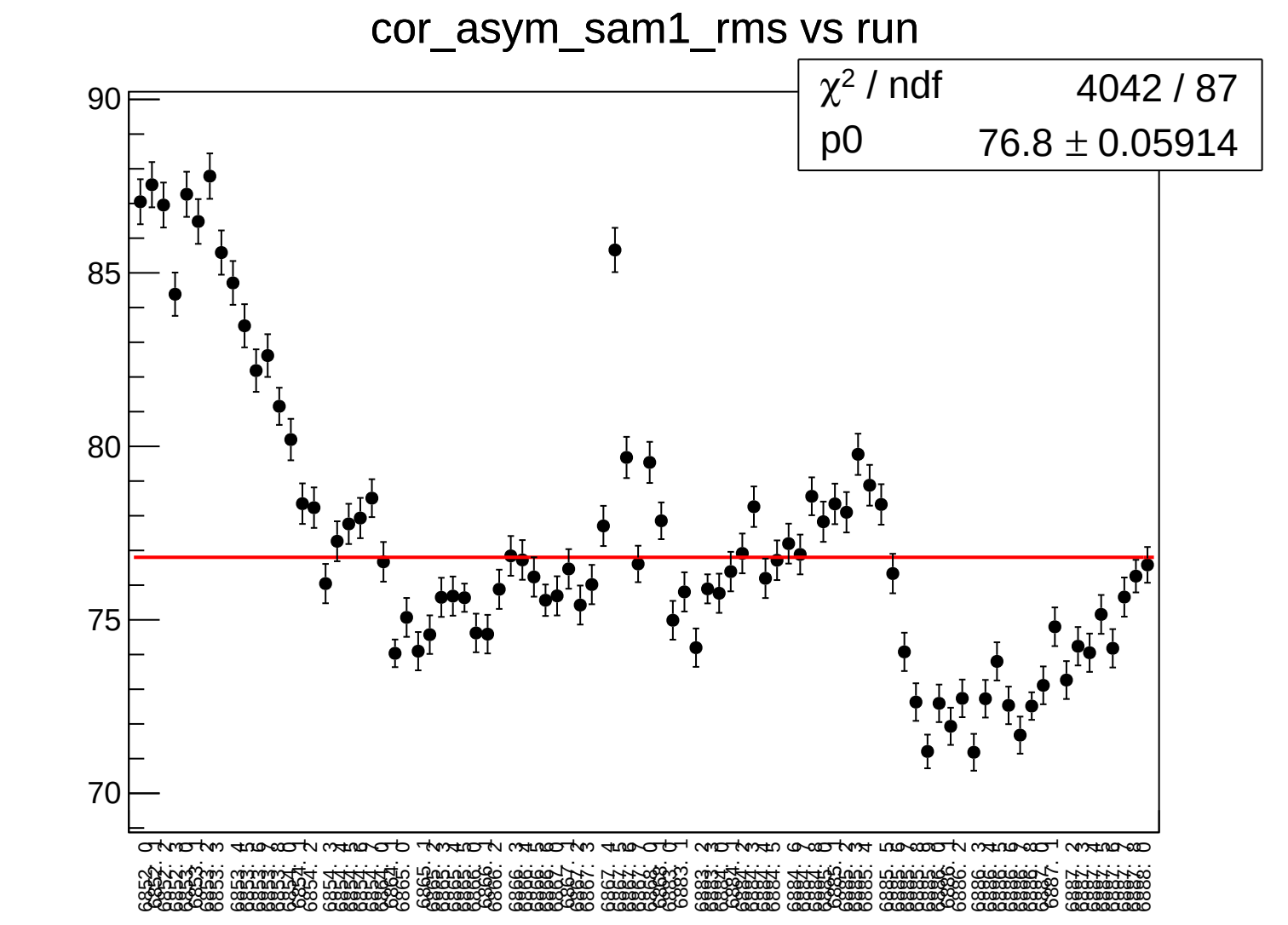

asym_sam1_reg_correction_mean vs run
χ² / ndf 70.86 / 87
p0 −214.3 ± 488.3
pull
Entries 88
Mean 51.61
Std Dev 0

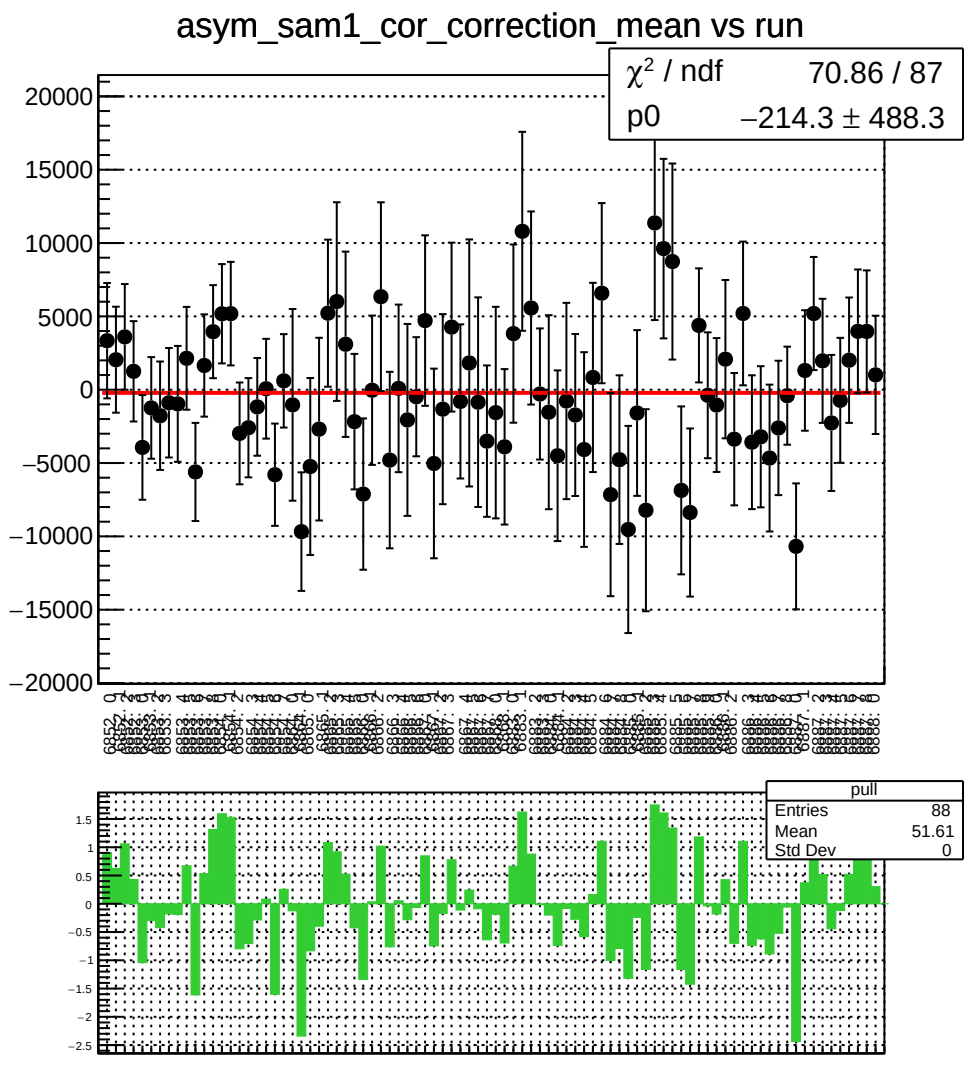

pull1D
Entries 88
Mean −0.007002
Std Dev 0.8973

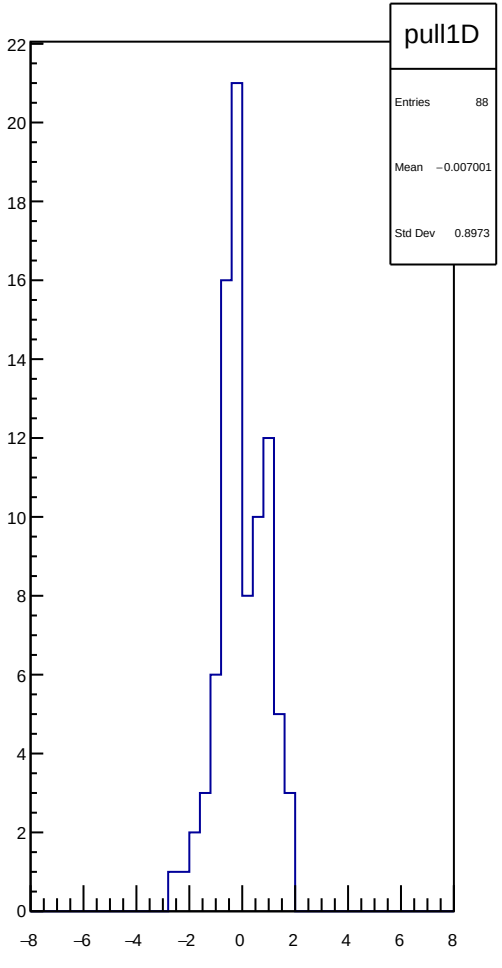

asym_sam1_reg_correction_rms vs run
χ² / ndf 1.002e+05 / 87
p0 435.4 ± 0.3452
800
700
600
500
400
300

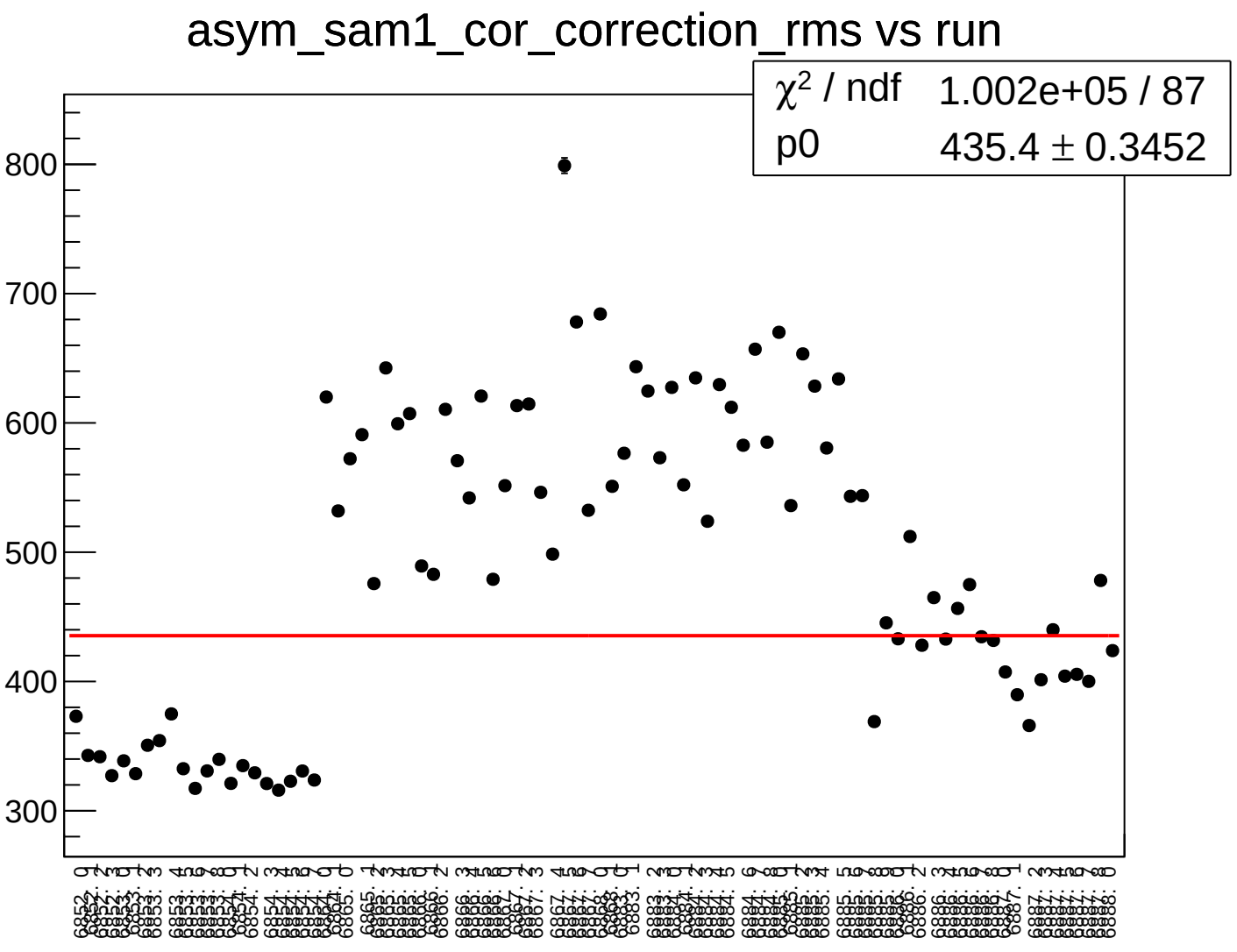

cor_asym_sam1_mean vs run
χ² / ndf 71.16 / 87
p0 −148 ± 83.63
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −348.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

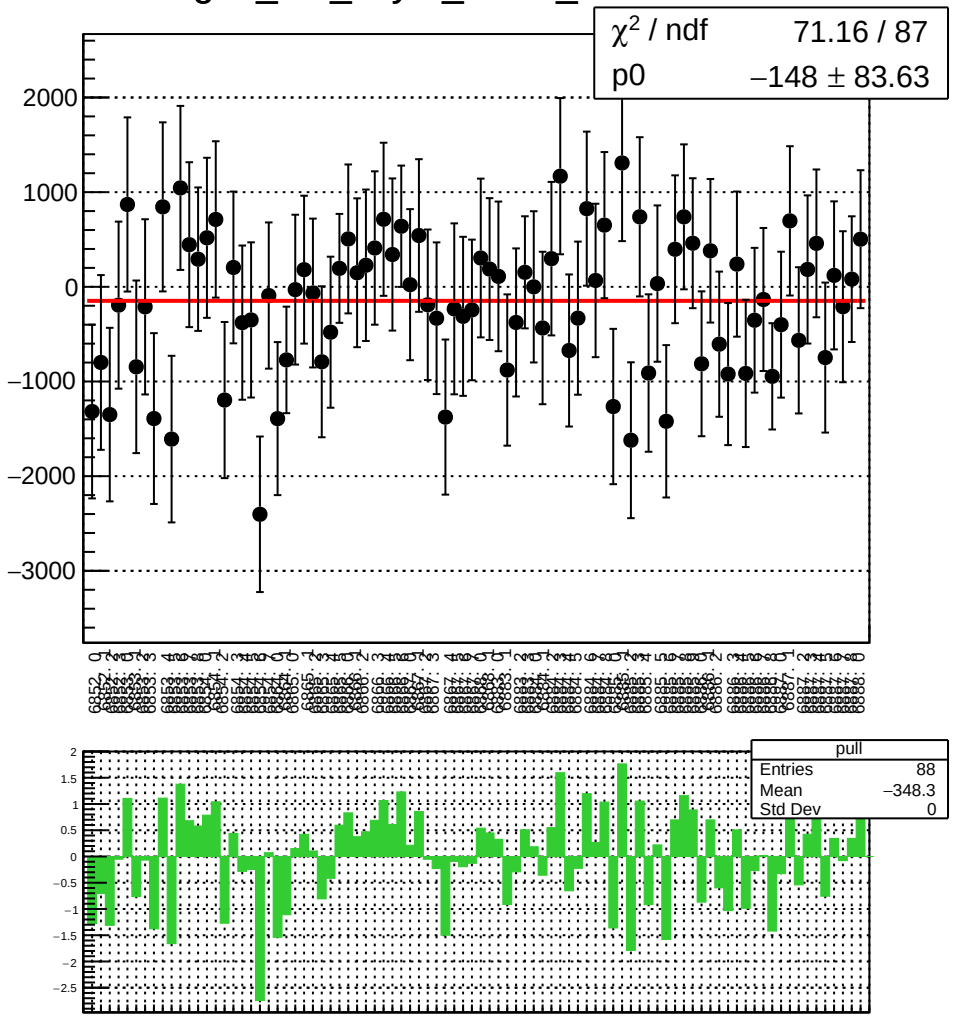

pull1D
Entries 88
Mean −0.00528
Std Dev 0.8993
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

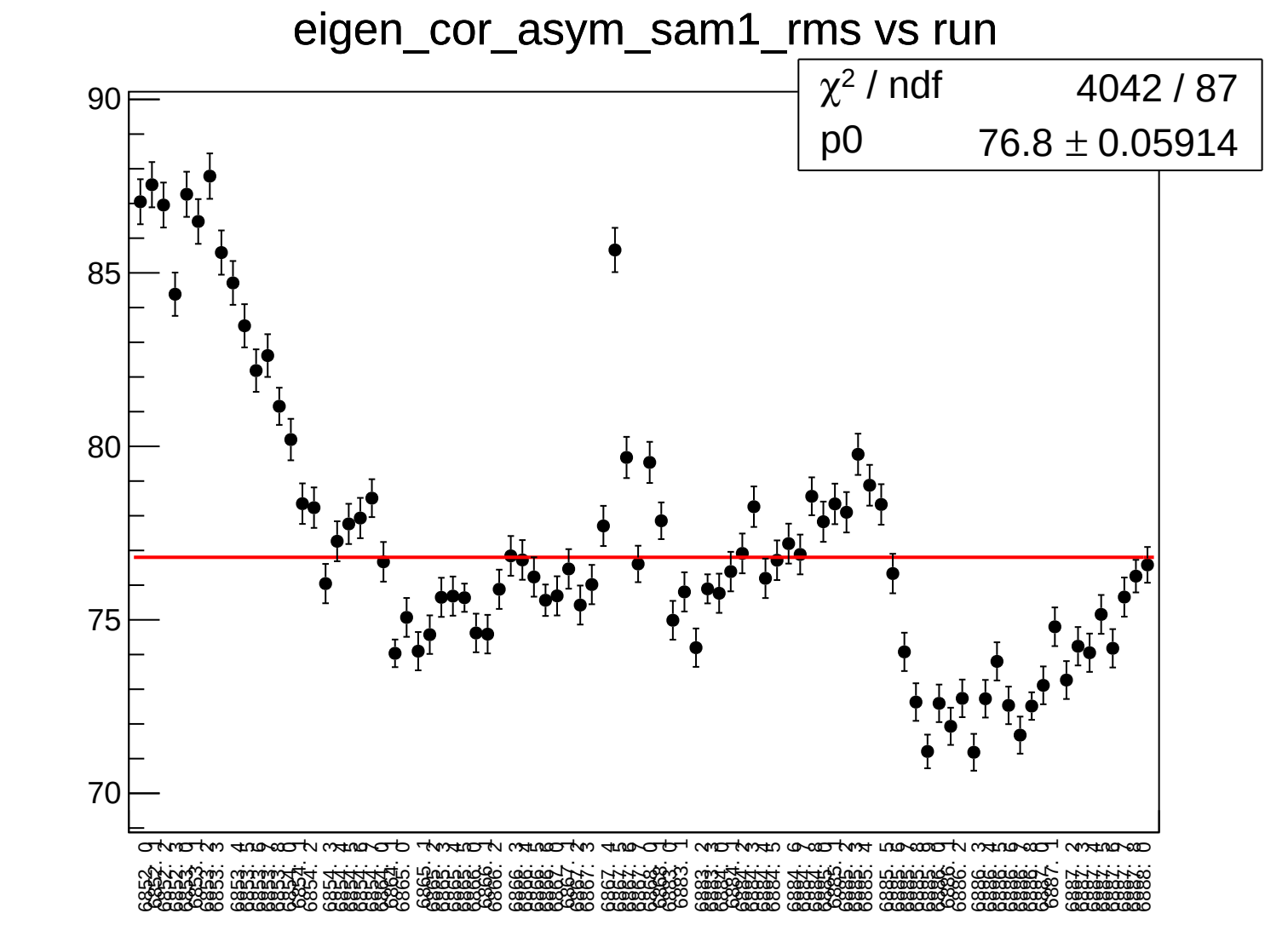

cor_asym_sam1_rms vs run
χ² / ndf 4042 / 87
p0 76.8 ± 0.05914
90
85
80
75
70

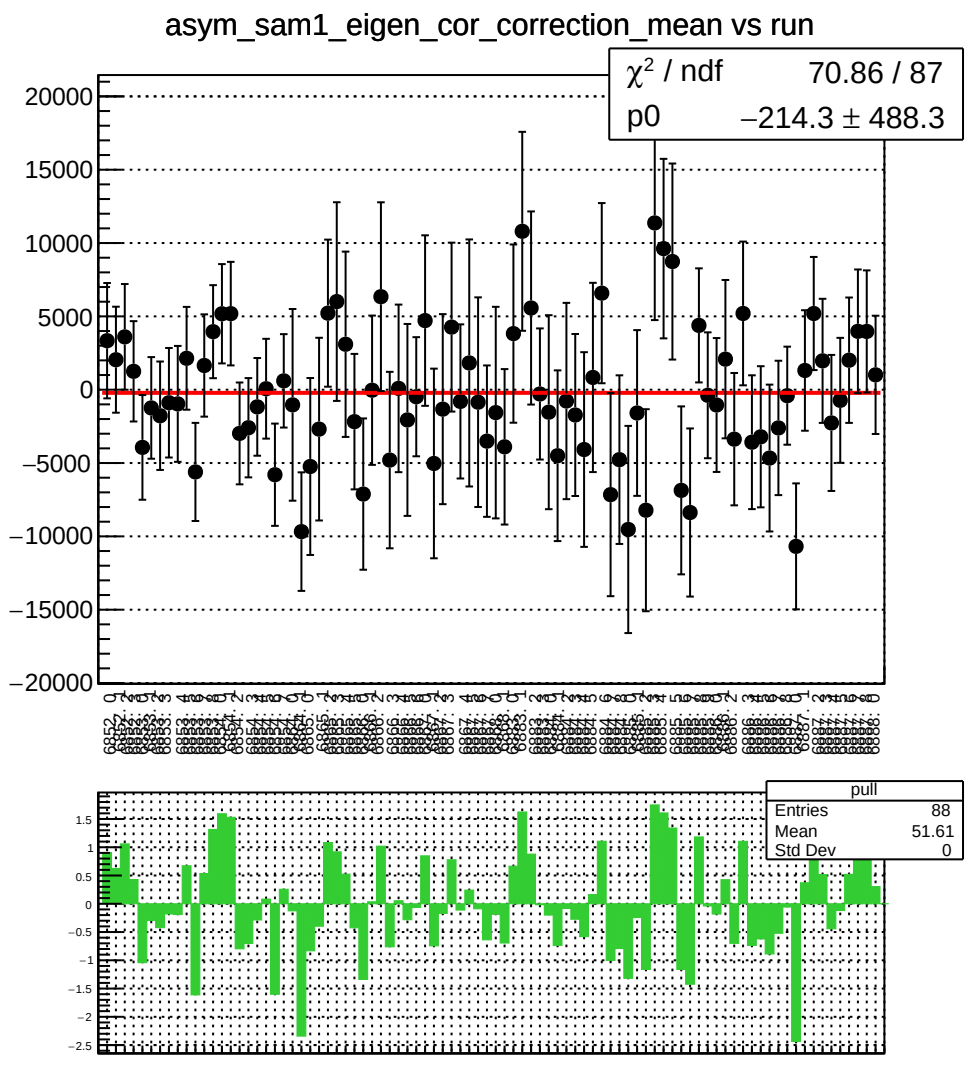

asym_sam1_cor_correction_mean vs run
χ² / ndf 70.86 / 87
p0 −214.3 ± 488.3
pull
Entries 88
Mean 51.61
Std Dev 0

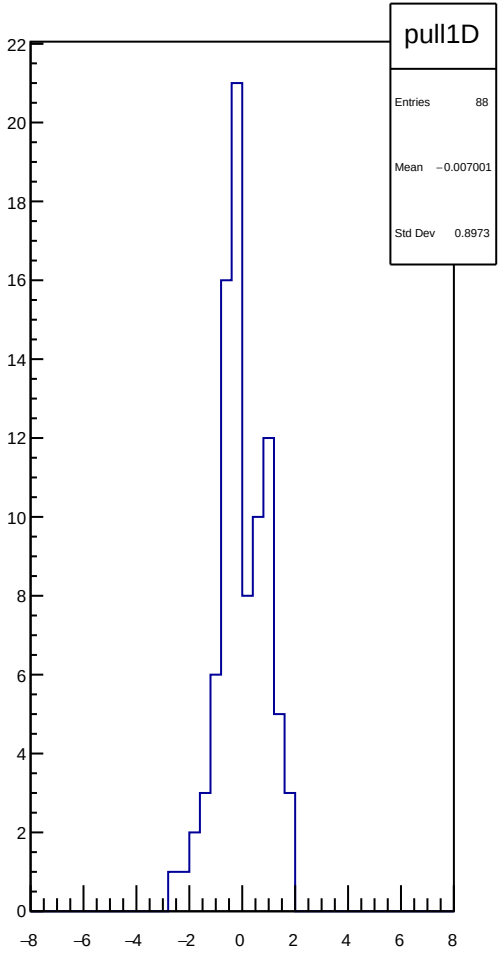

pull1D
Entries 88
Mean −0.007001
Std Dev 0.8973

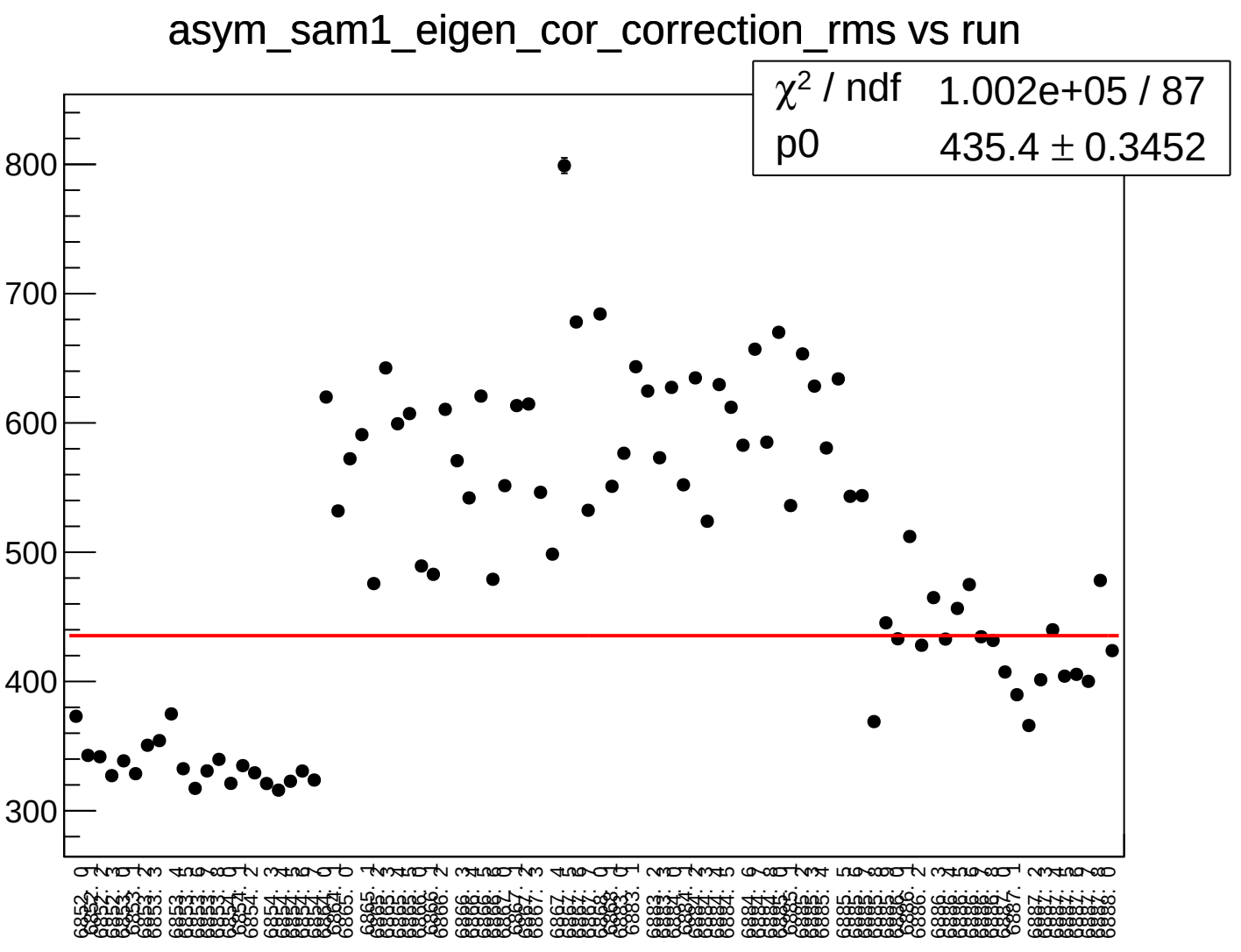

asym_sam1_cor_correction_rms vs run
χ² / ndf 1.002e+05 / 87
p0 435.4 ± 0.3452
800
700
600
500
400
300

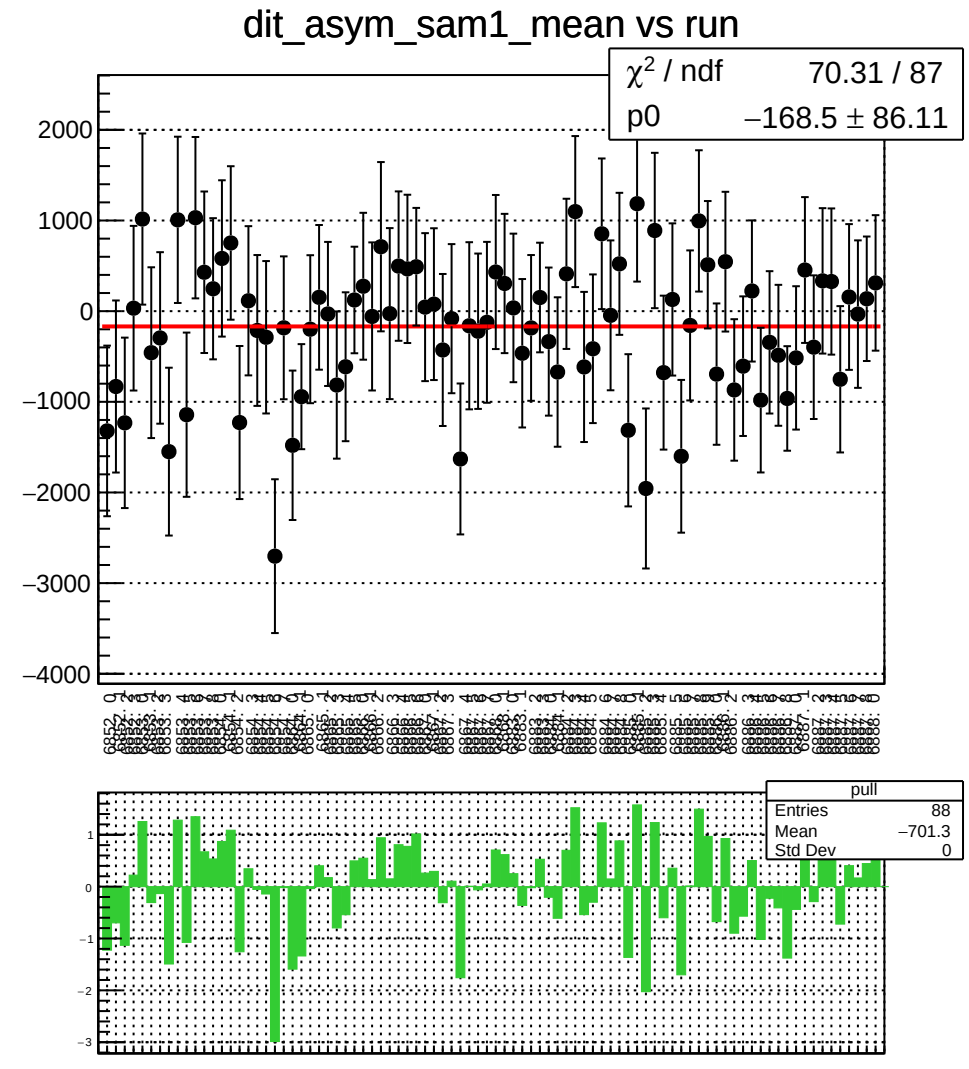

eigen_cor_asym_sam1_mean vs run
χ² / ndf 71.16 / 87
p0 −148 ± 83.63
pull
Entries 88
Mean −348.3
Std Dev 0
pull1D
Entries 88
Mean −0.00528
Std Dev 0.8993

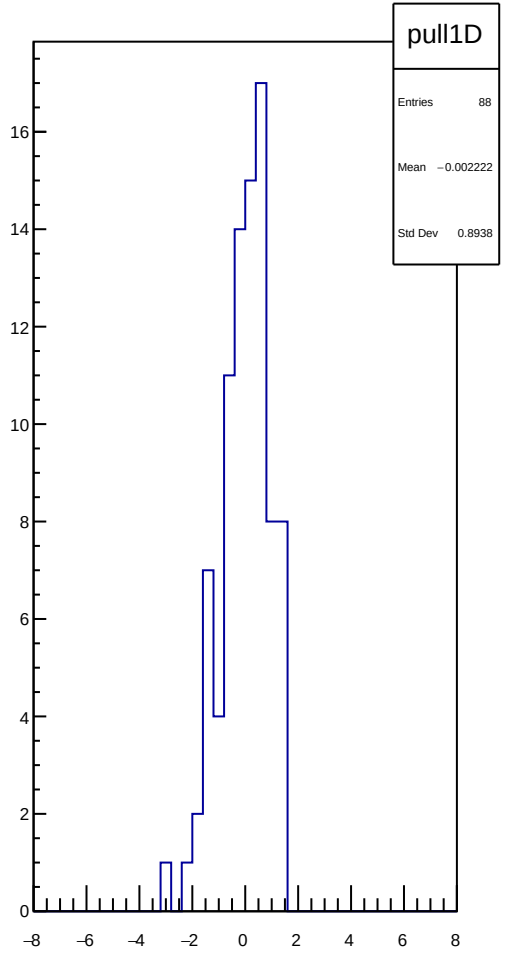

eigen_cor_asym_sam1_rms vs run
χ² / ndf 4042 / 87
p0 76.8 ± 0.05914
90
85
80
75
70

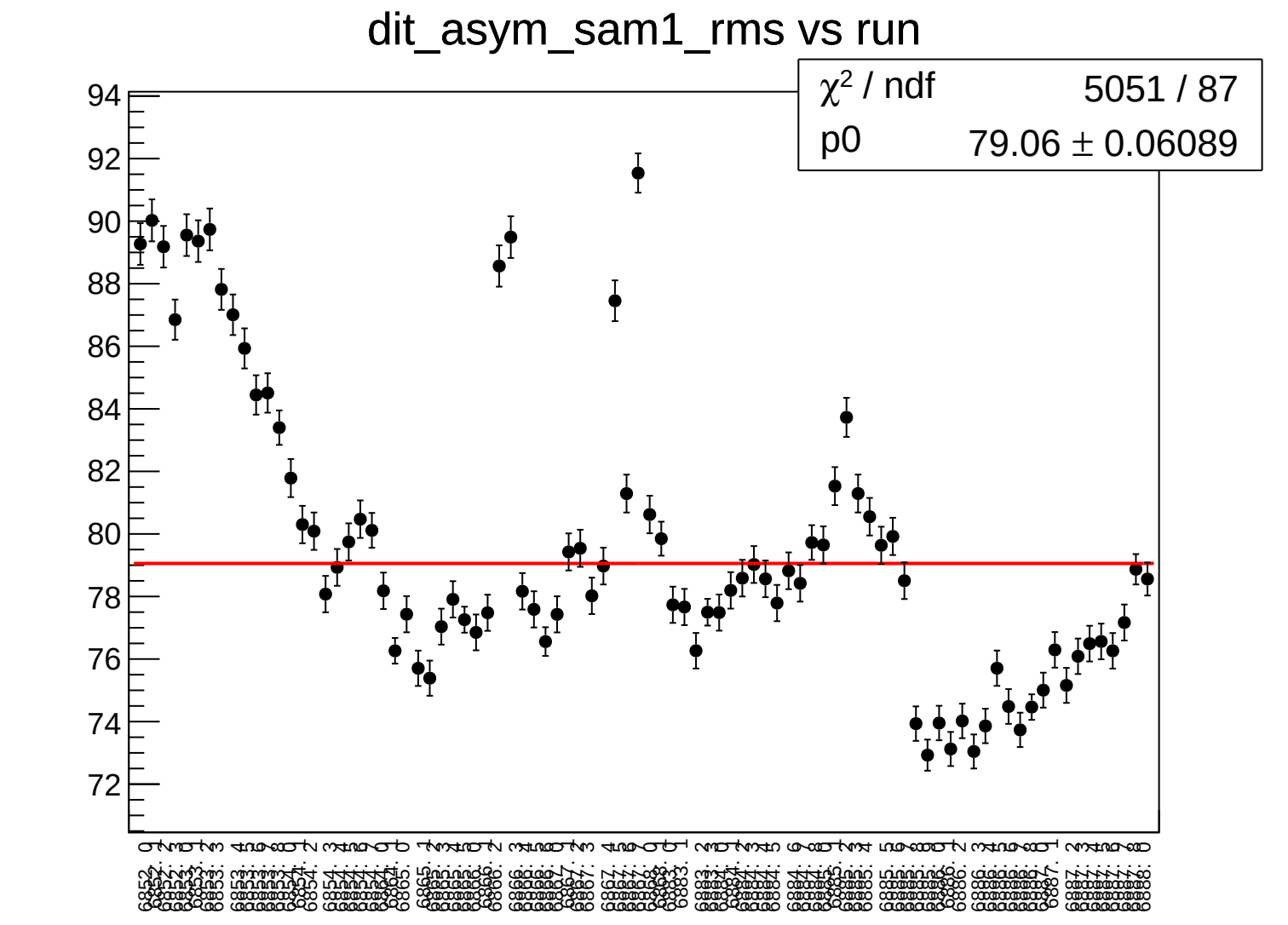

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 70.86 / 87
p0 −214.3 ± 488.3
pull
Entries 88
Mean 51.61
Std Dev 0

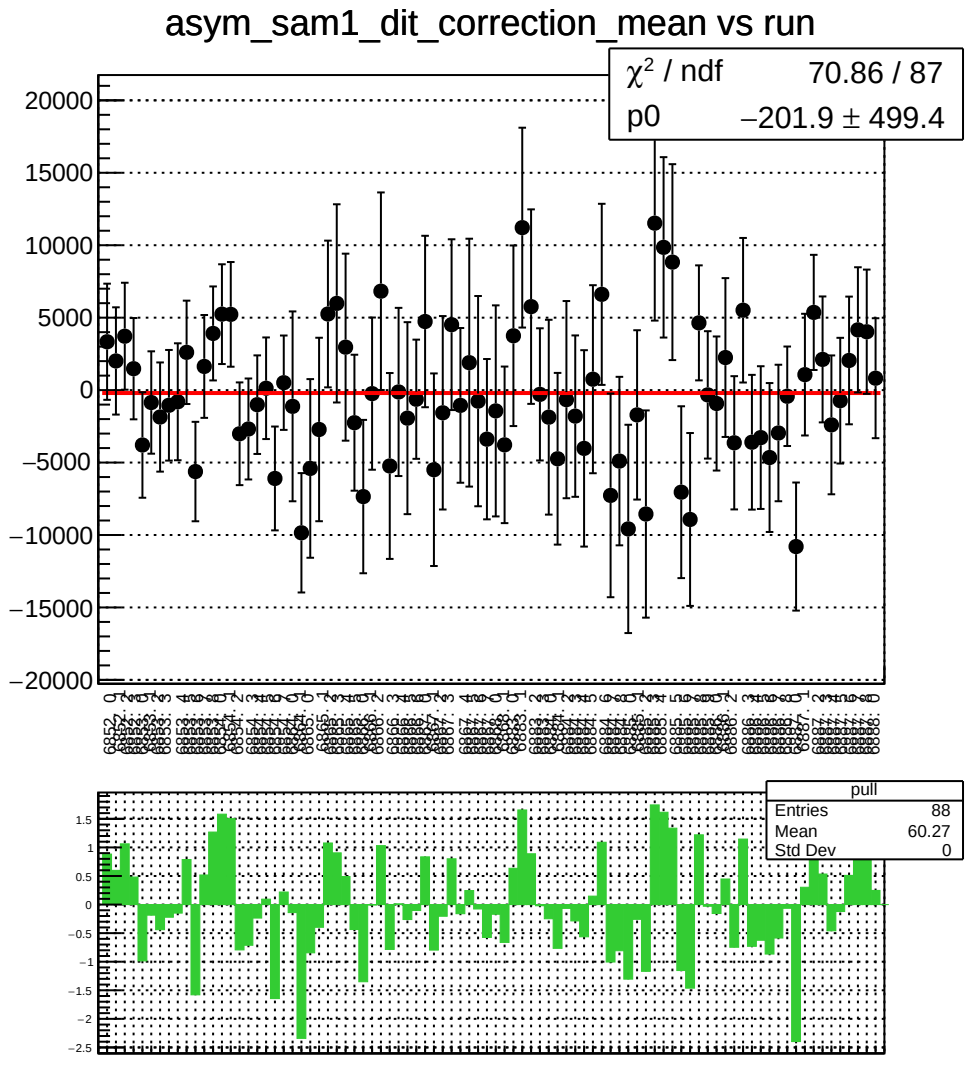

pull1D
Entries 88
Mean −0.007001
Std Dev 0.8973

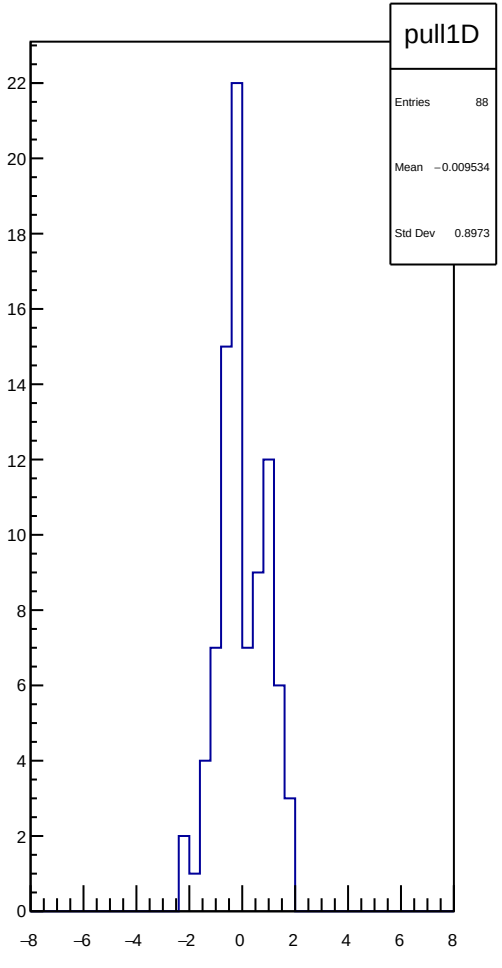

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 1.002e+05 / 87
p0 435.4 ± 0.3452
800
700
600
500
400
300

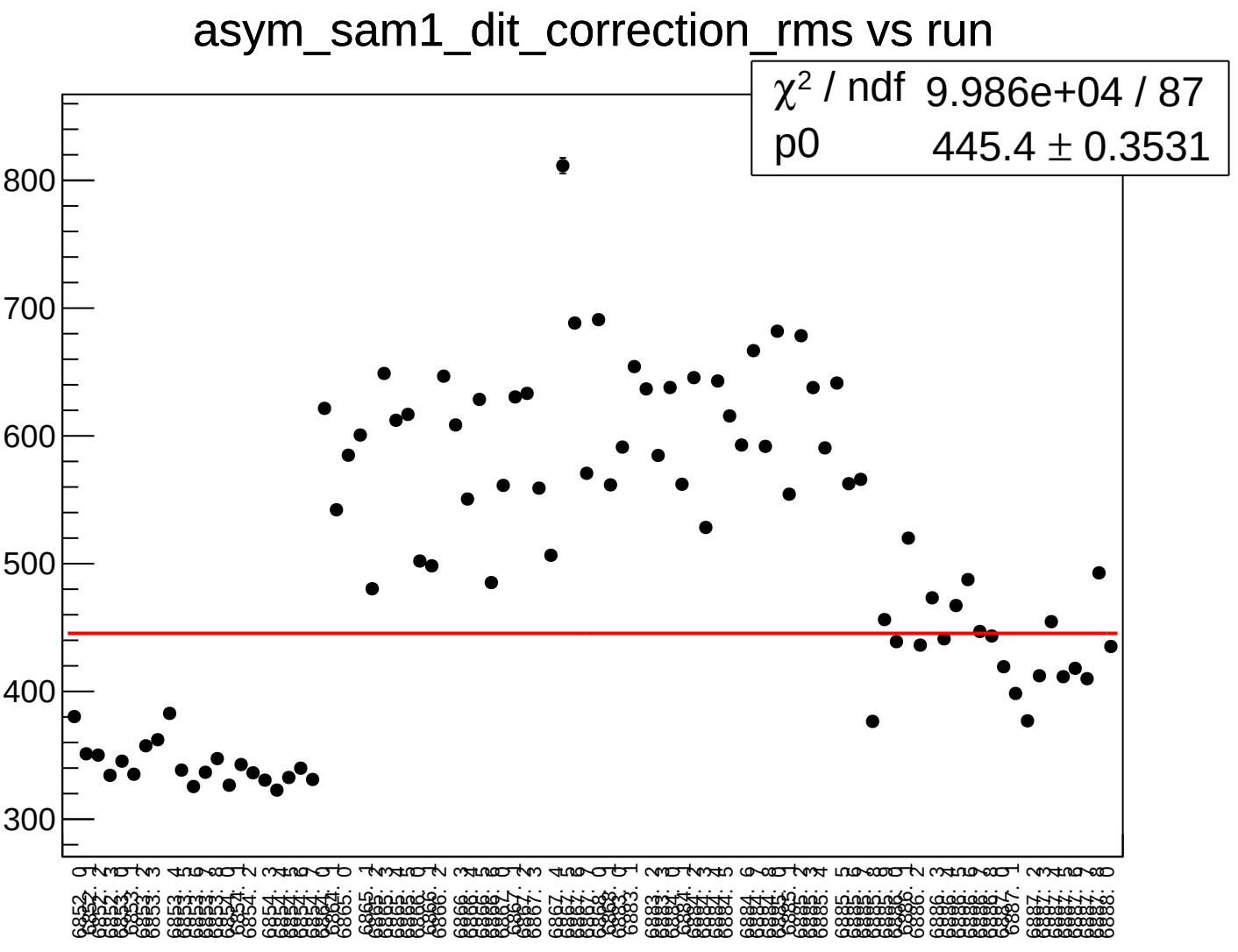

dit_asym_sam1_mean vs run
χ² / ndf 70.31 / 87
p0 −168.5 ± 86.11
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean −701.3
Std Dev 0
1
0
−1
−2
−3

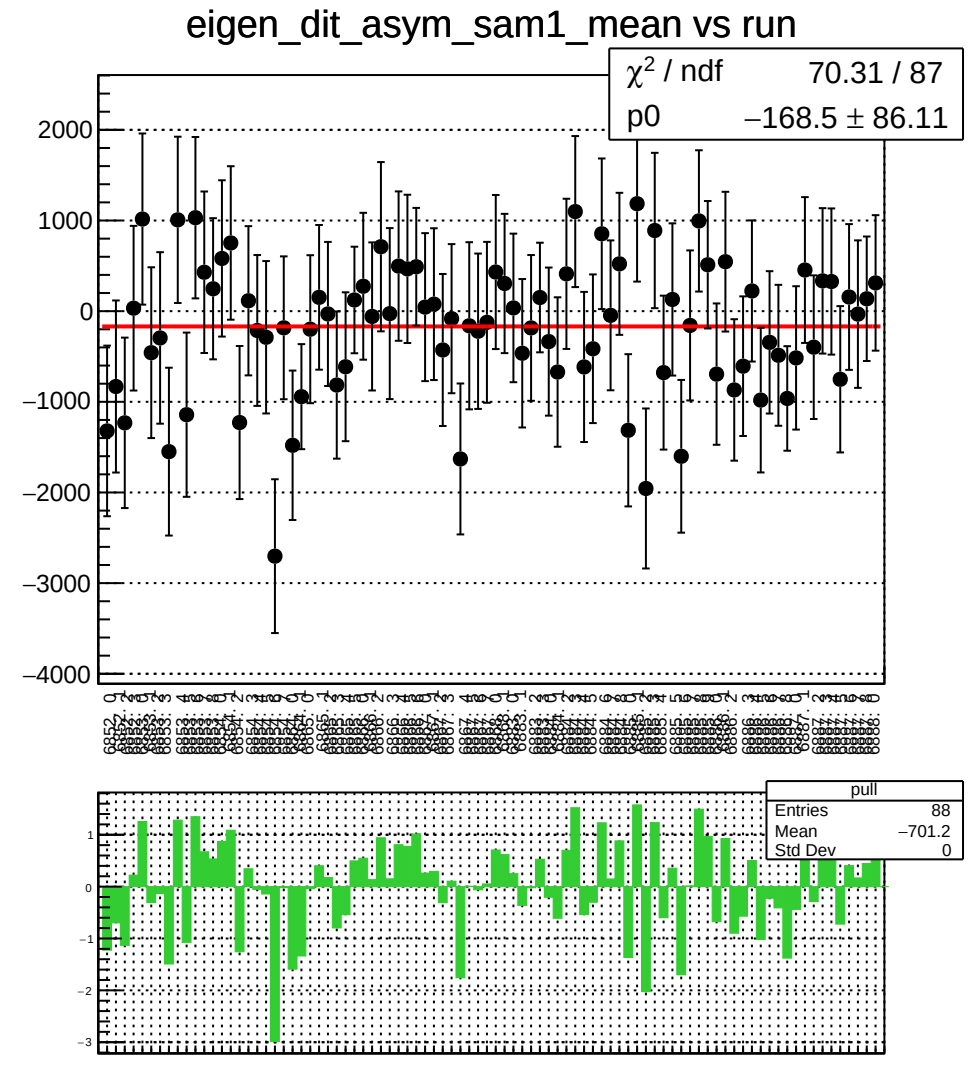

pull1D
Entries 88
Mean −0.002222
Std Dev 0.8938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

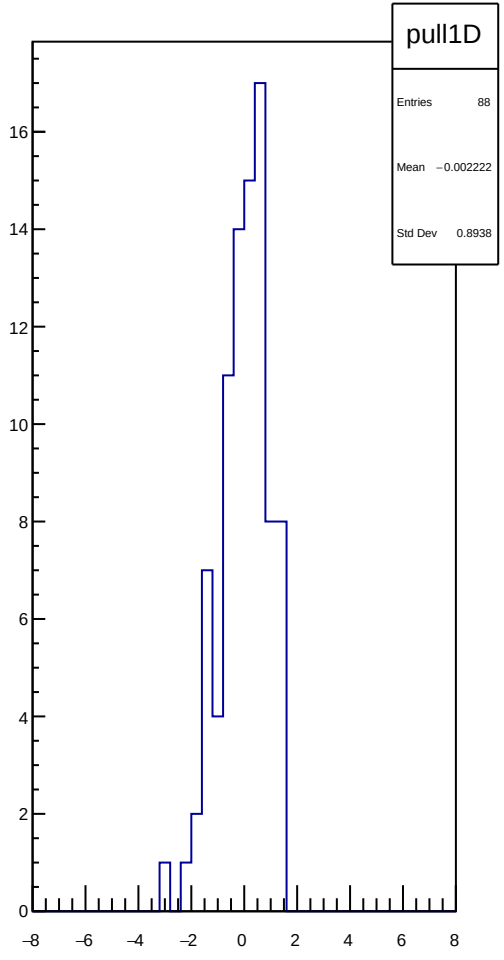

dit_asym_sam1_rms vs run
χ² / ndf 5051 / 87
p0 79.06 ± 0.06089
94
92
90
88
86
84
82
80
78
76
74
72

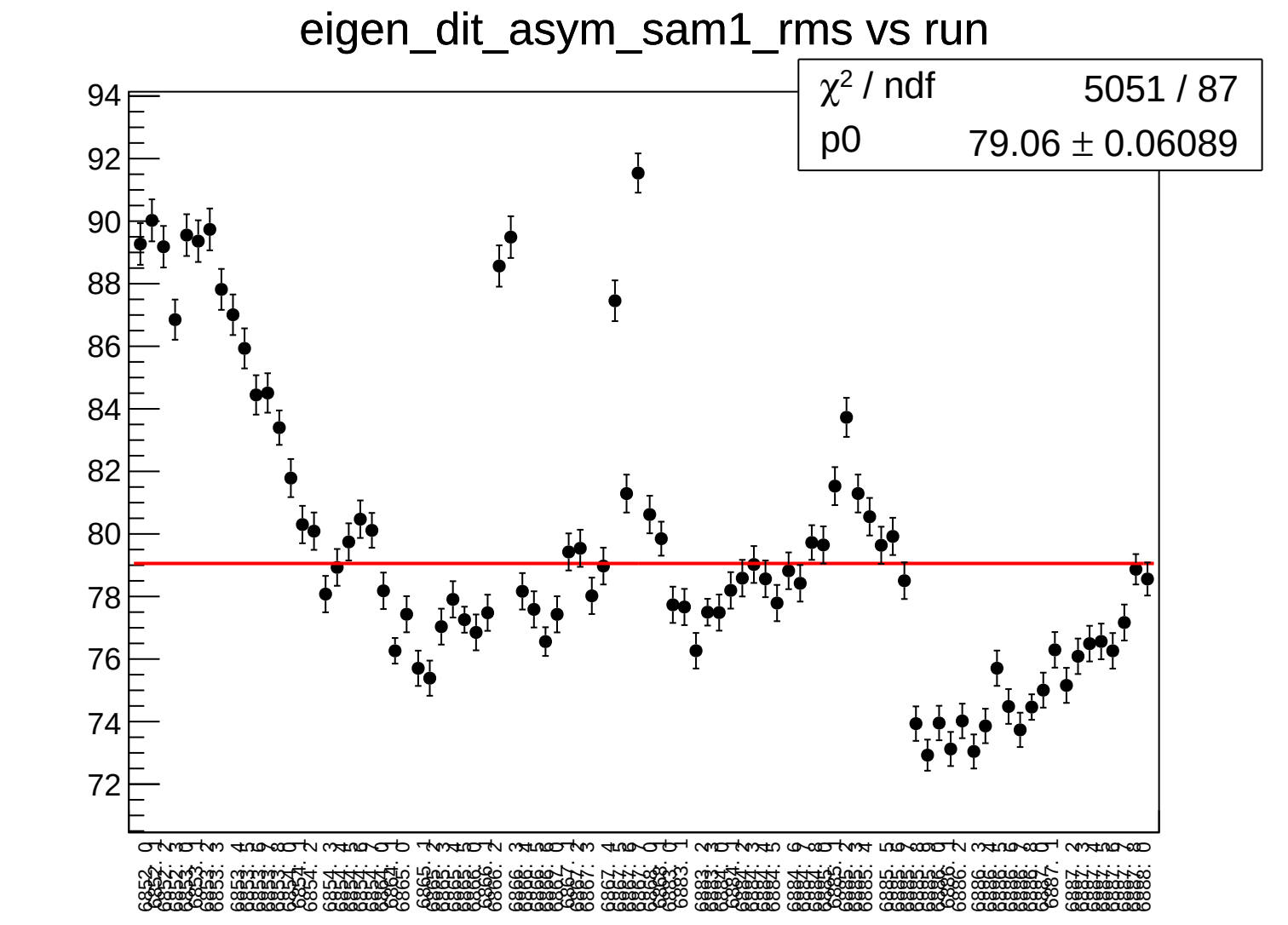

asym_sam1_dit_correction_mean vs run
χ² / ndf 70.86 / 87
p0 −201.9 ± 499.4
pull
Entries 88
Mean 60.27
Std Dev 0

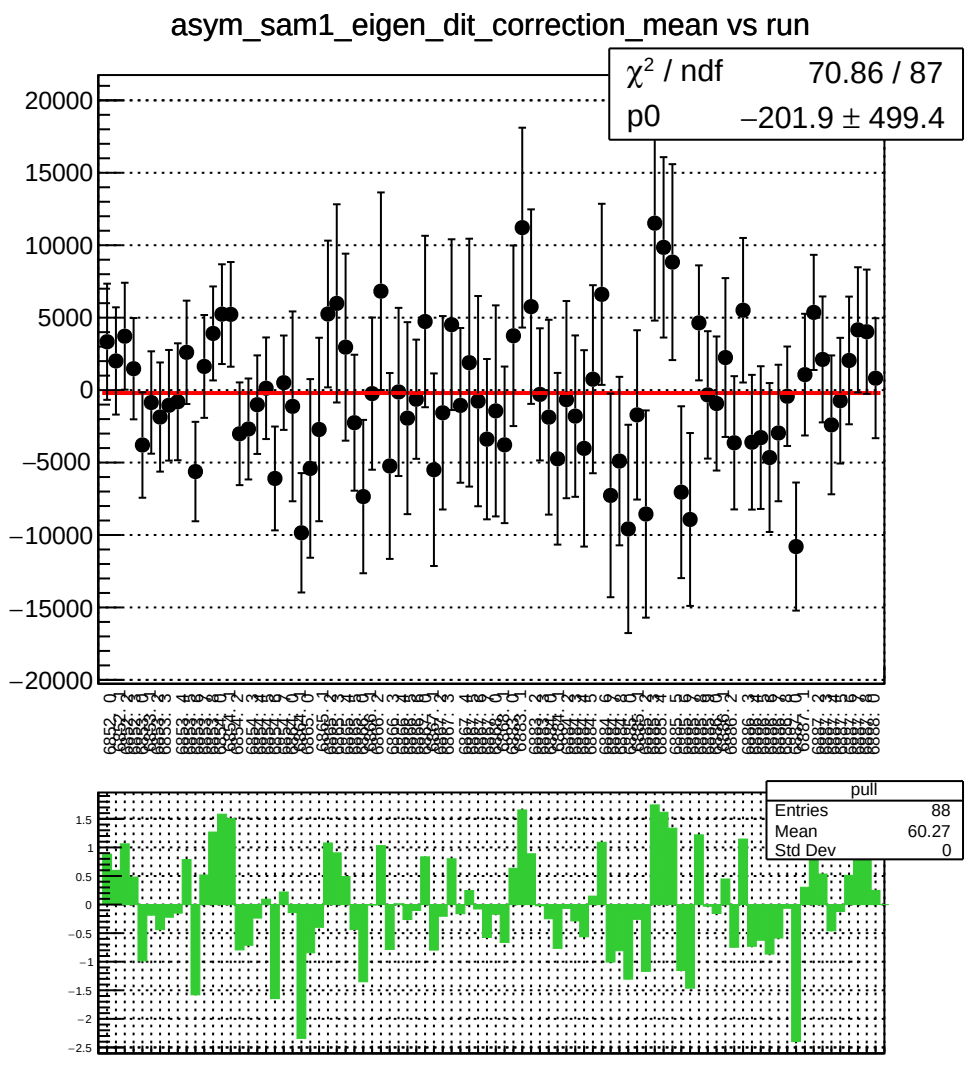

pull1D
Entries 88
Mean −0.009534
Std Dev 0.8973

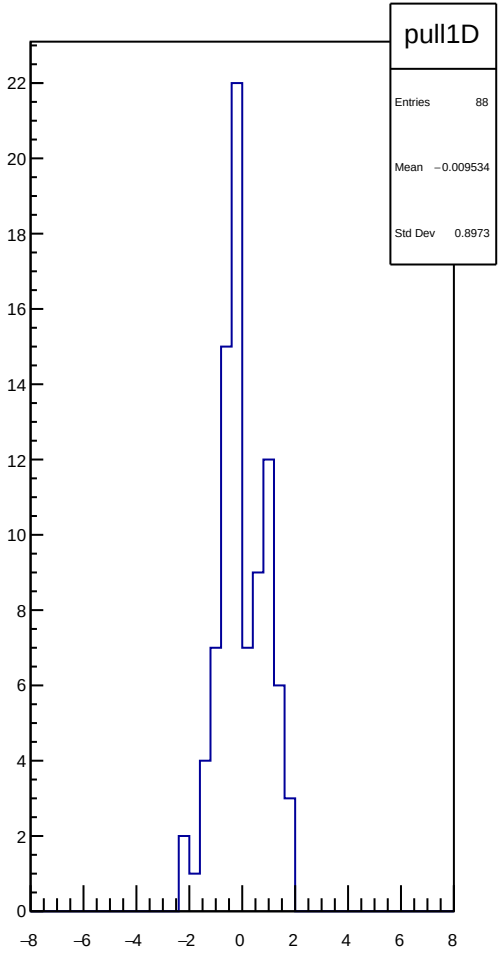

asym_sam1_dit_correction_rms vs run
χ² / ndf 9.986e+04 / 87
p0 445.4 ± 0.3531
800
700
600
500
400
300

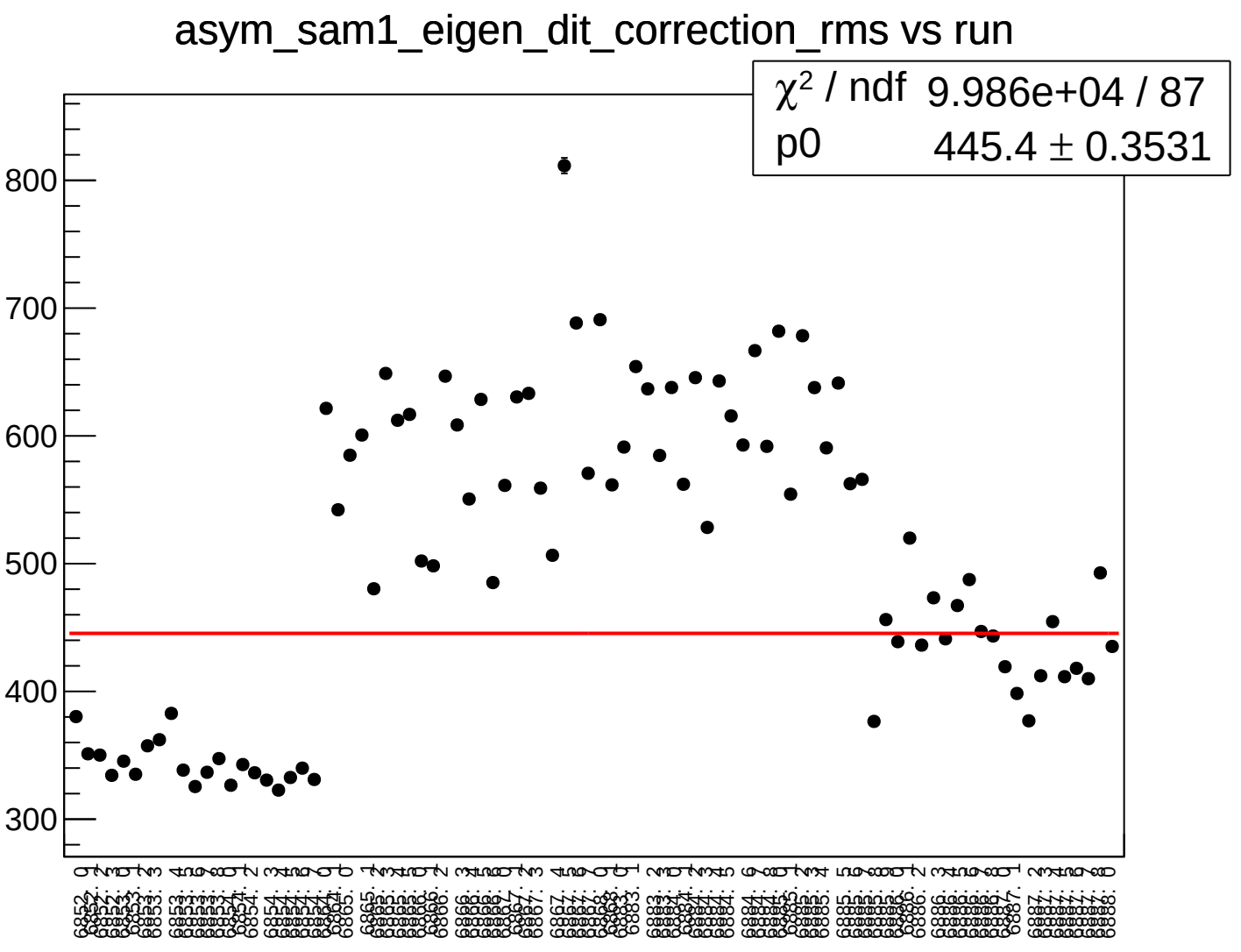

eigen_dit_asym_sam1_mean vs run
χ² / ndf 70.31 / 87
p0 −168.5 ± 86.11
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean −701.2
Std Dev 0
1
0
−1
−2
−3

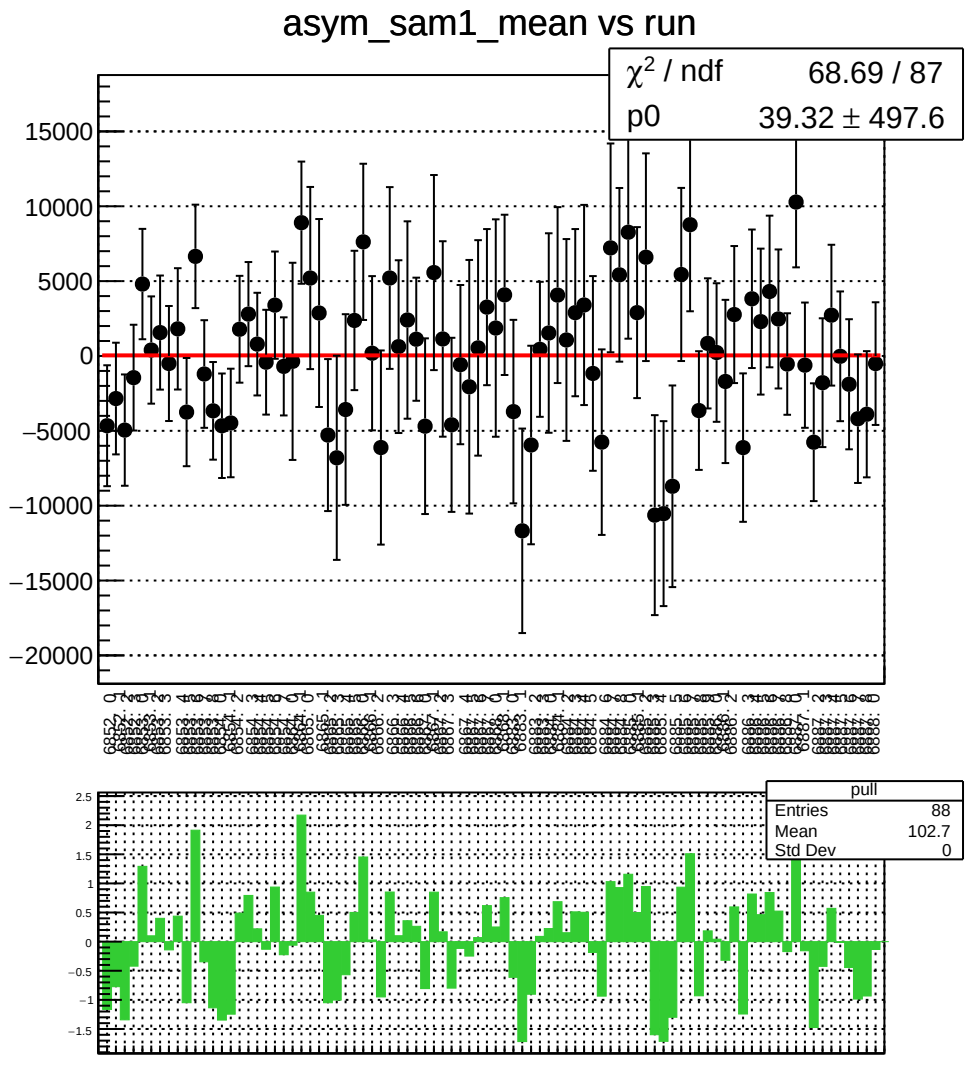

pull1D
Entries 88
Mean −0.002222
Std Dev 0.8938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

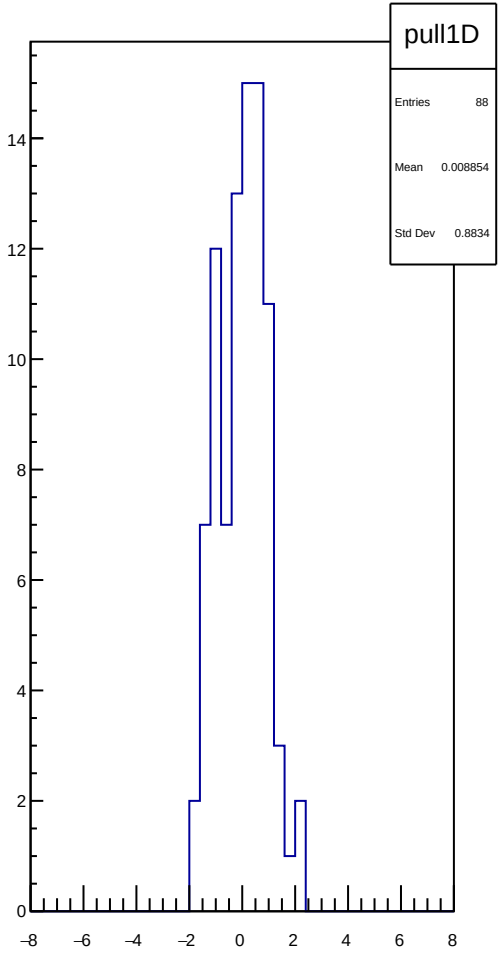

eigen_dit_asym_sam1_rms vs run
χ² / ndf 5051 / 87
p0 79.06 ± 0.06089
94
92
90
88
86
84
82
80
78
76
74
72

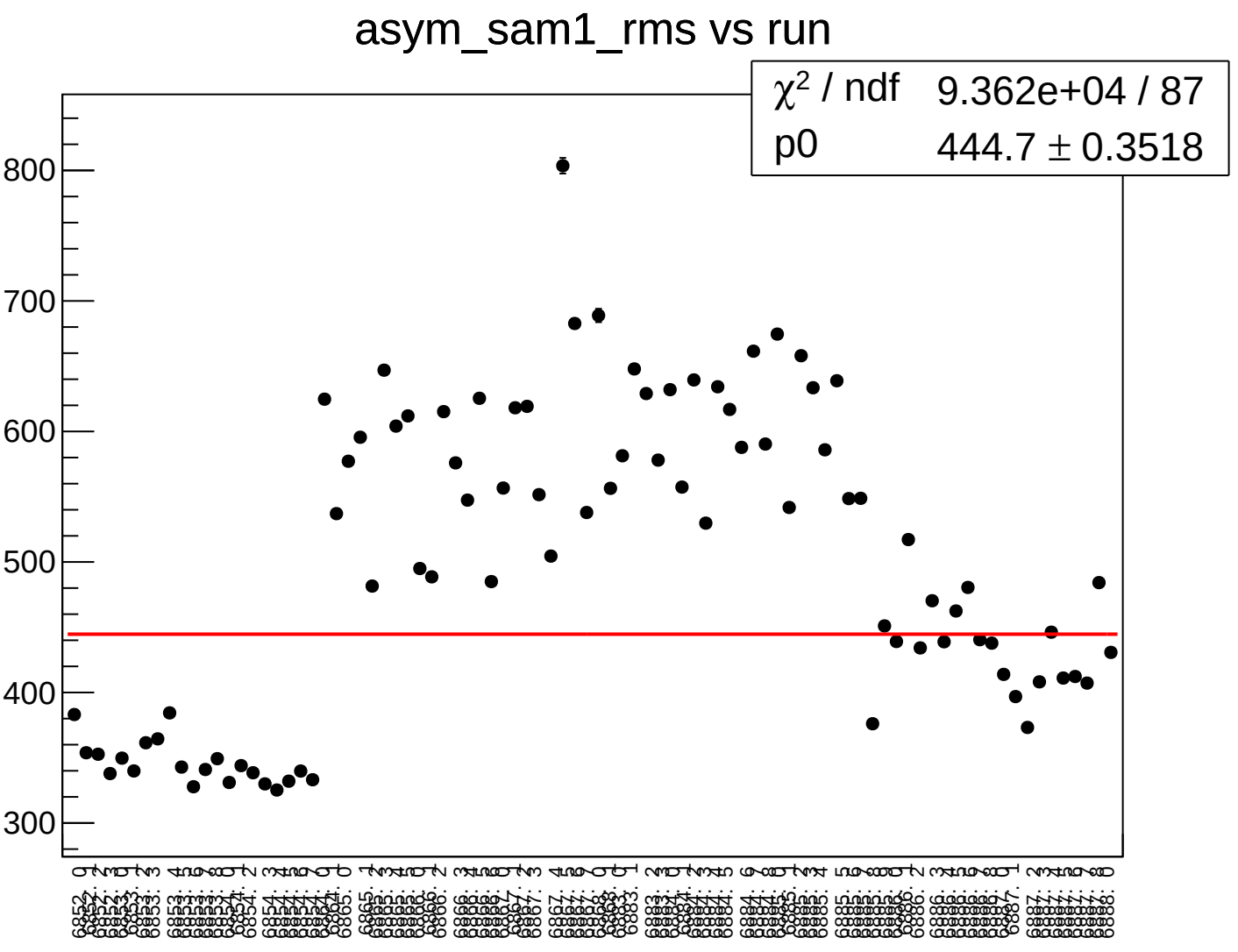

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 70.86 / 87
p0 −201.9 ± 499.4
pull
Entries 88
Mean 60.27
Std Dev 0

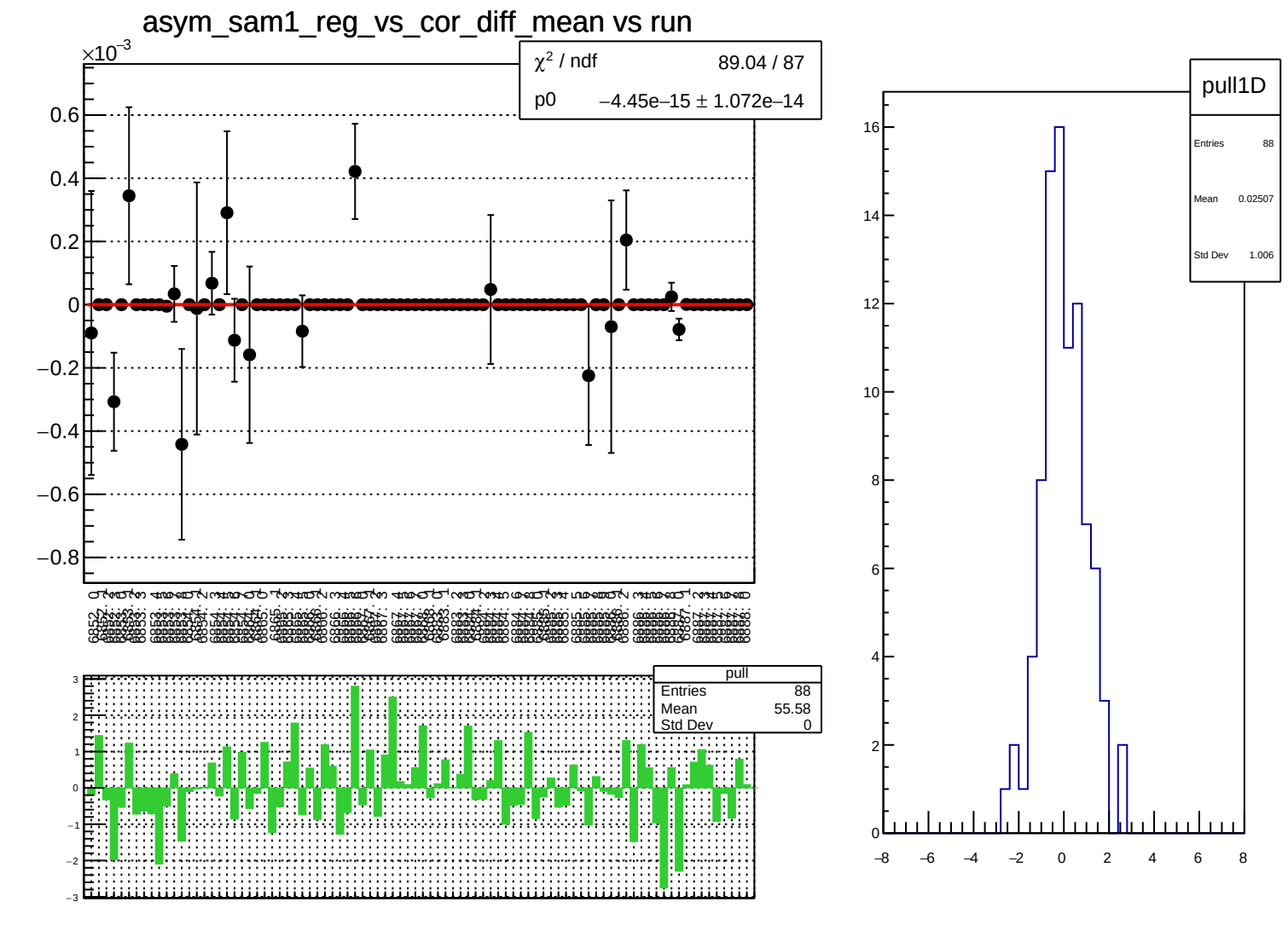

pull1D
Entries 88
Mean −0.009534
Std Dev 0.8973

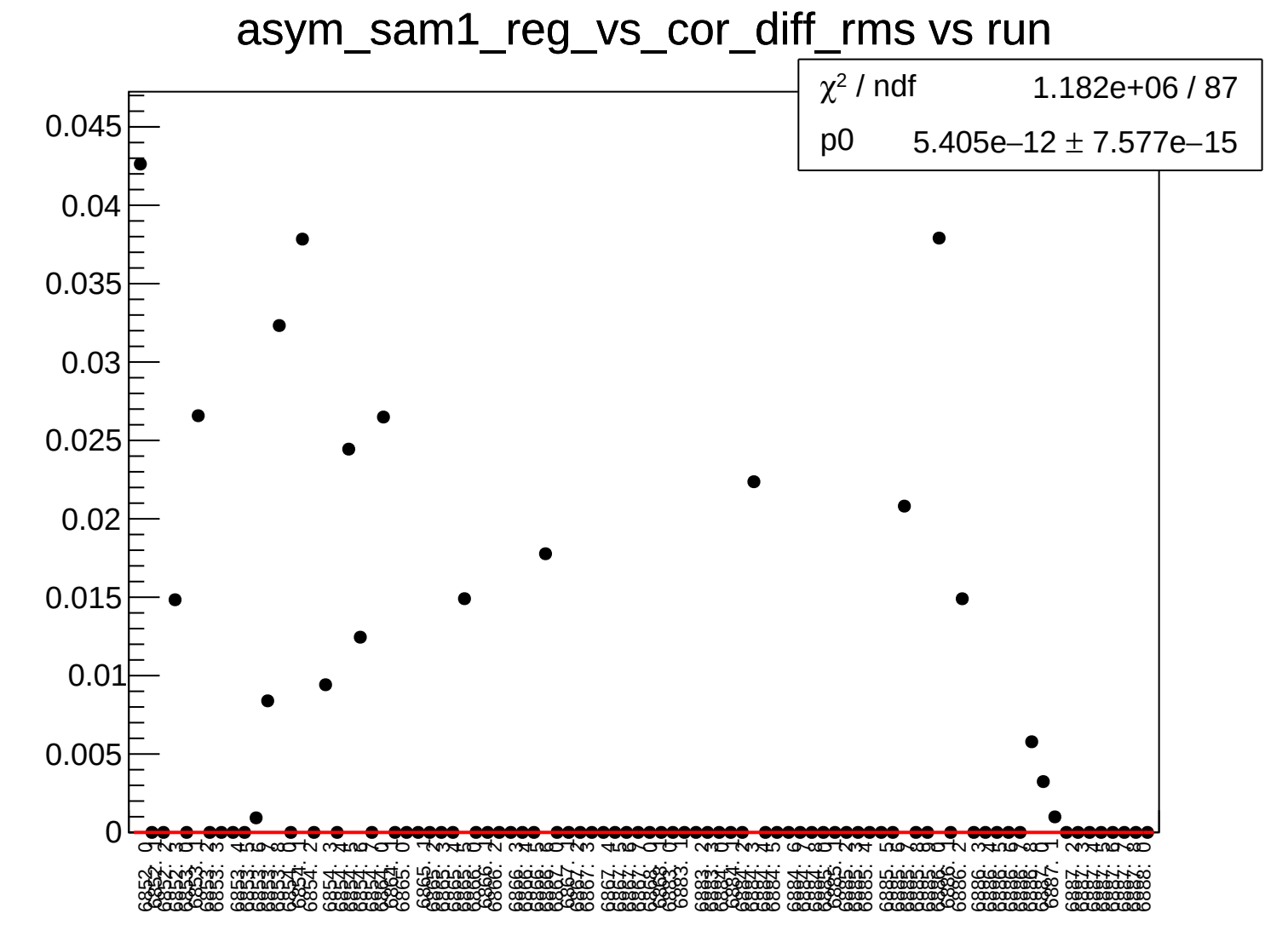

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 9.986e+04 / 87
p0 445.4 ± 0.3531
800
700
600
500
400
300

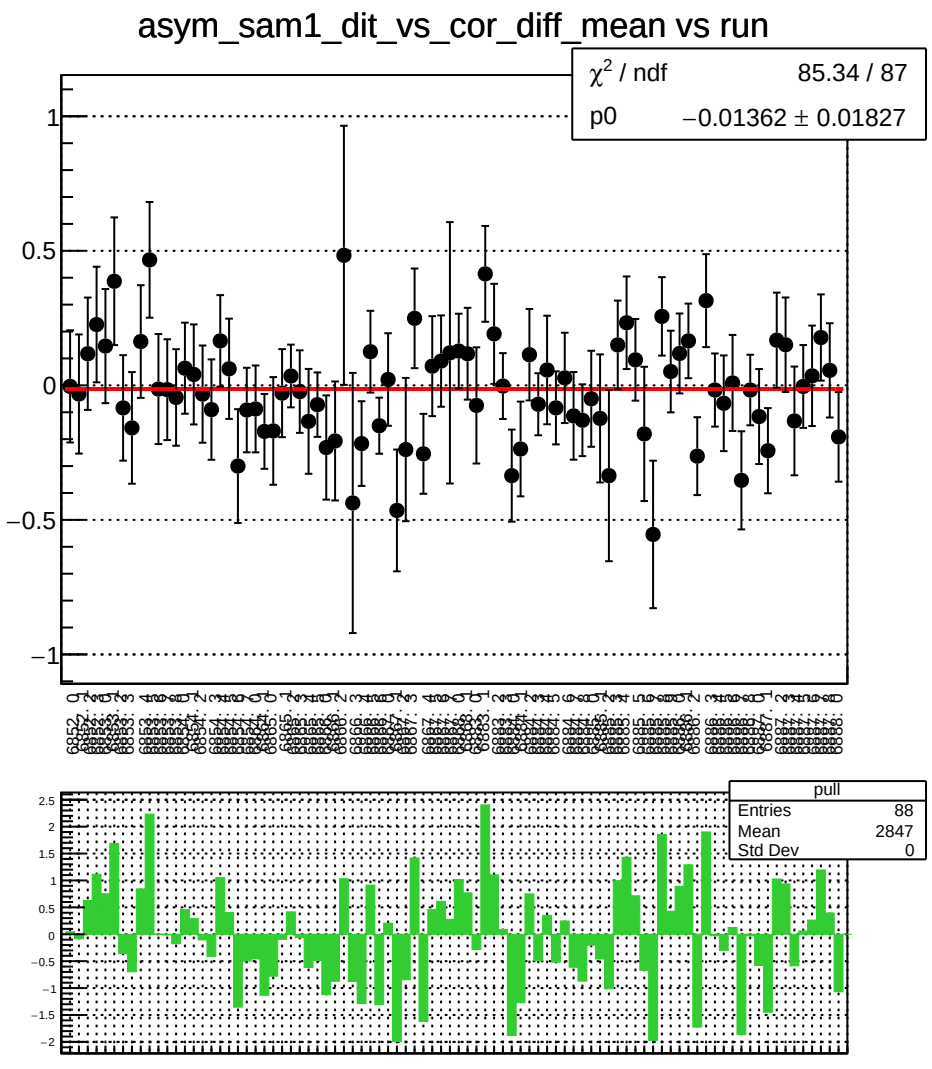

asym_sam1_mean vs run
χ² / ndf 68.69 / 87
p0 39.32 ± 497.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 102.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

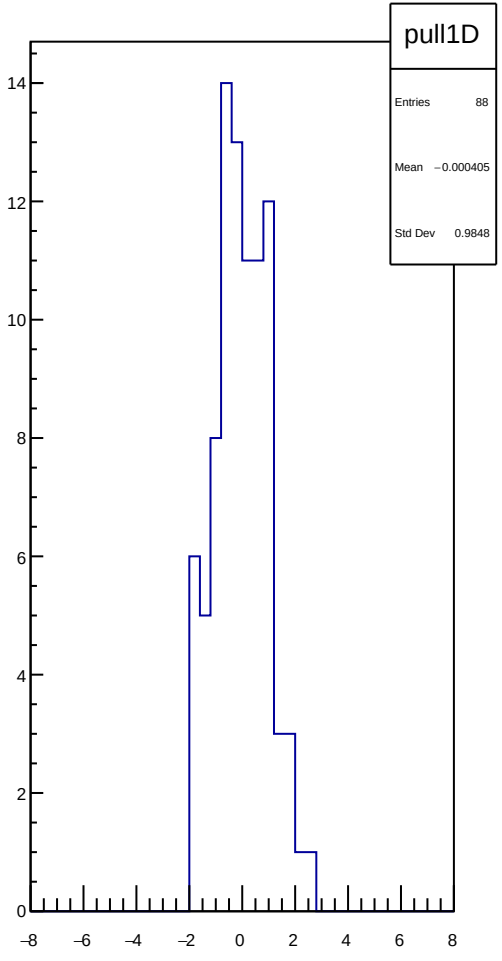

pull1D
Entries 88
Mean 0.008854
Std Dev 0.8834
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

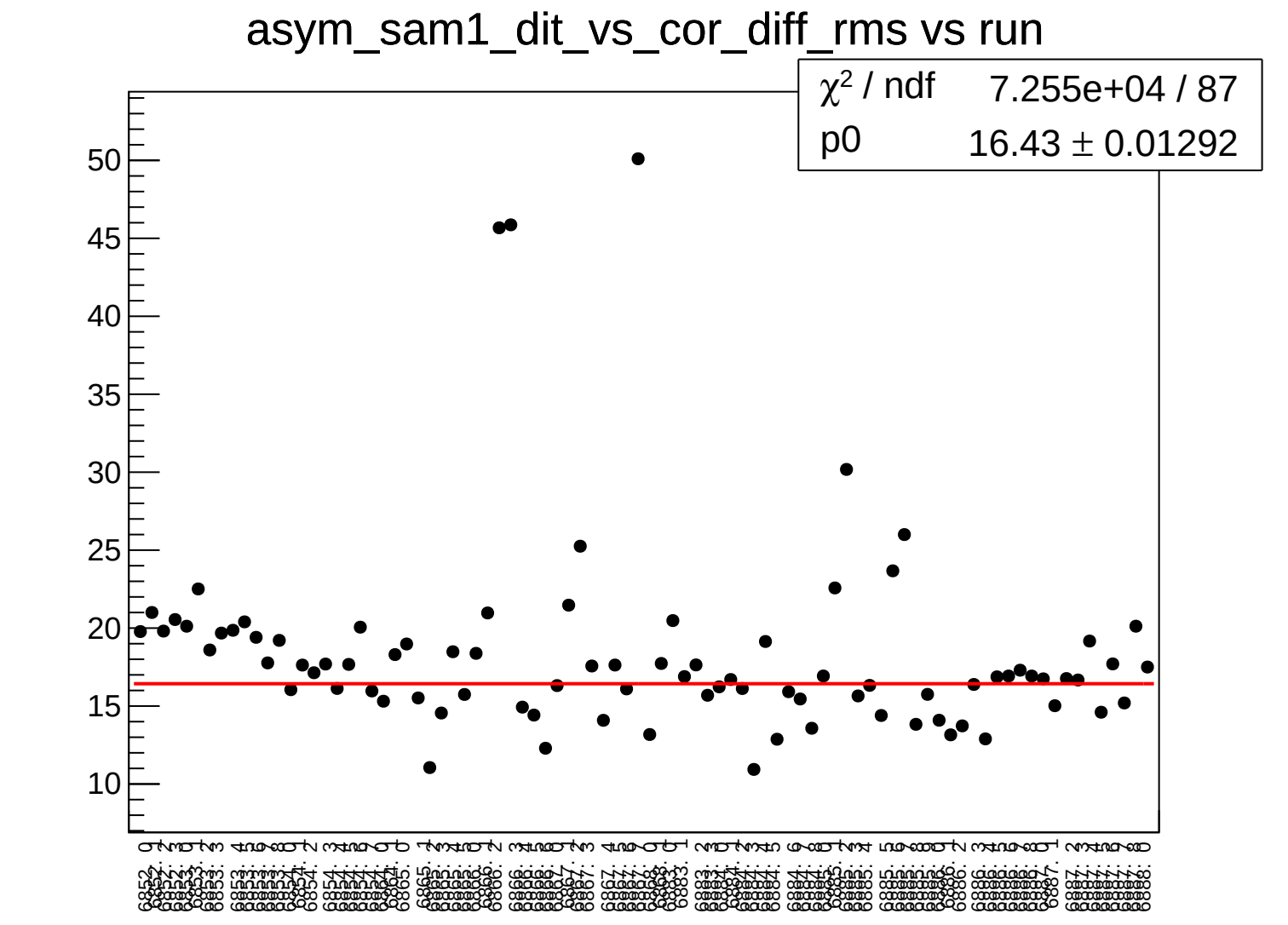

asym_sam1_rms vs run
χ^2 / ndf 9.362e+04 / 87
p0 444.7 ± 0.3518
800
700
600
500
400
300

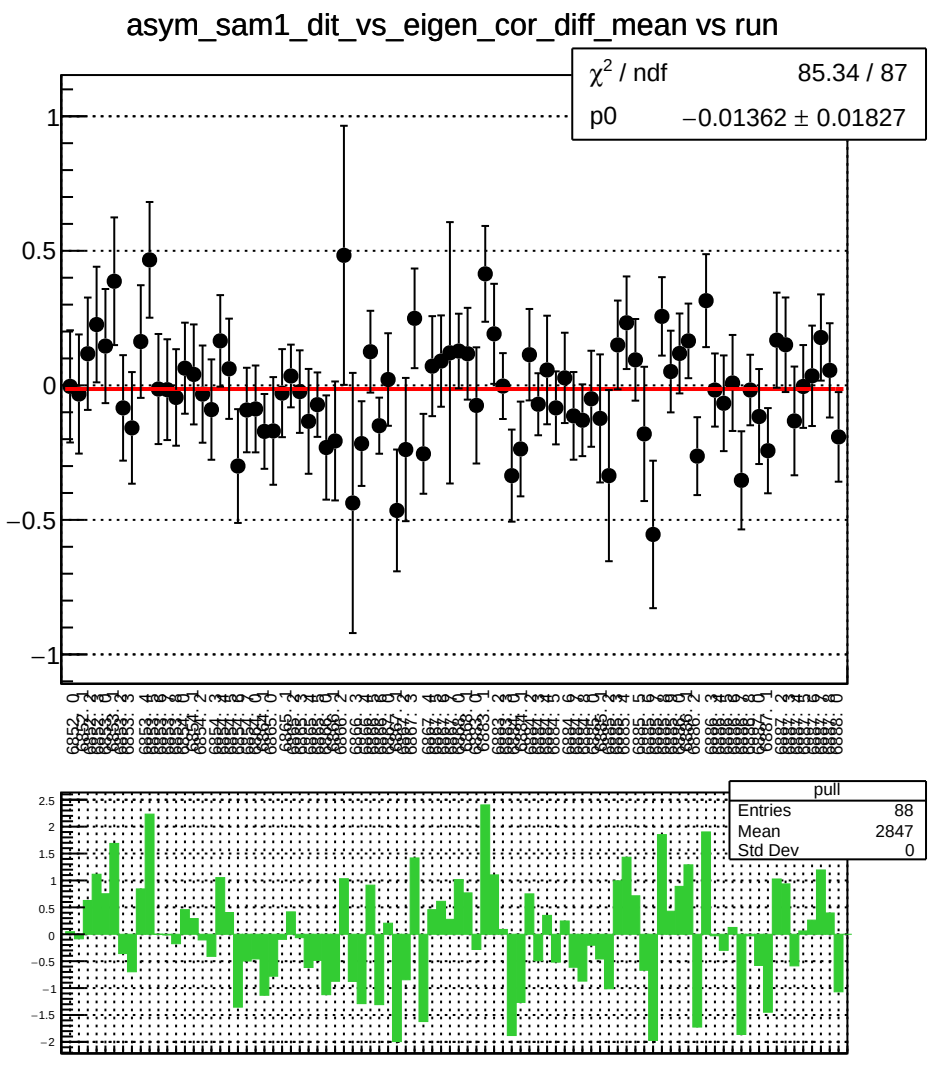

asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 89.04 / 87
p0 −4.45e−15 ± 1.072e−14
pull
Entries 88
Mean 55.58
Std Dev 0
pull1D
Entries 88
Mean 0.02507
Std Dev 1.006

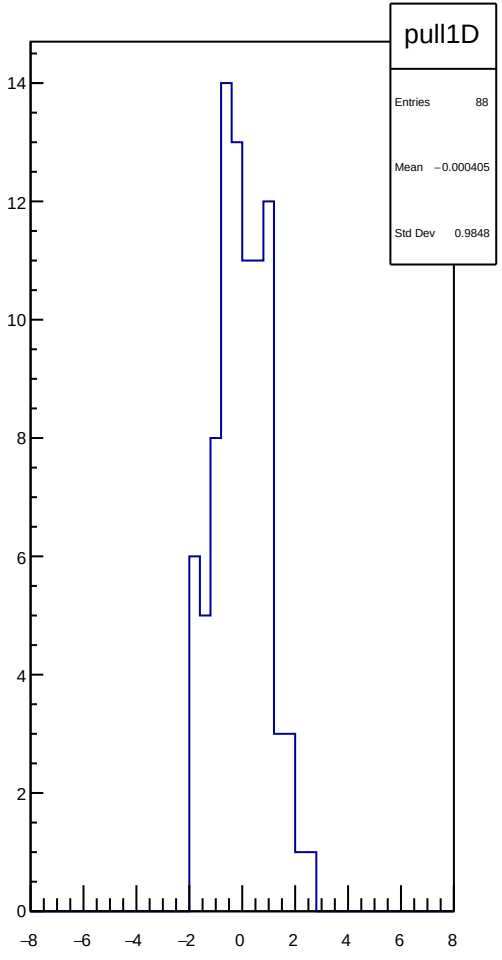

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.182e+06 / 87
p0 5.405e−12 ± 7.577e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

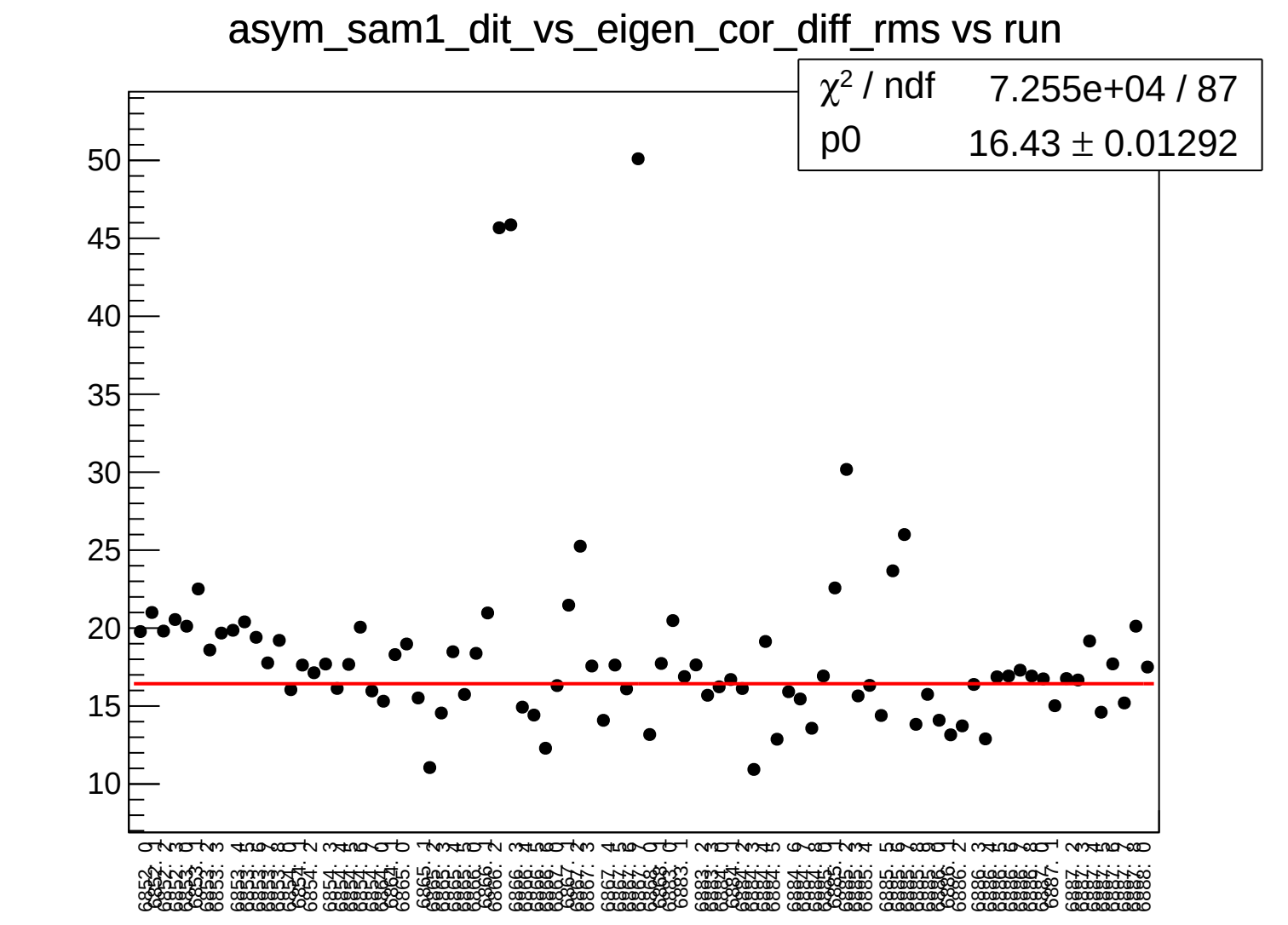

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 85.34 / 87
p0 −0.01362 ± 0.01827
pull
Entries 88
Mean 2847
Std Dev 0

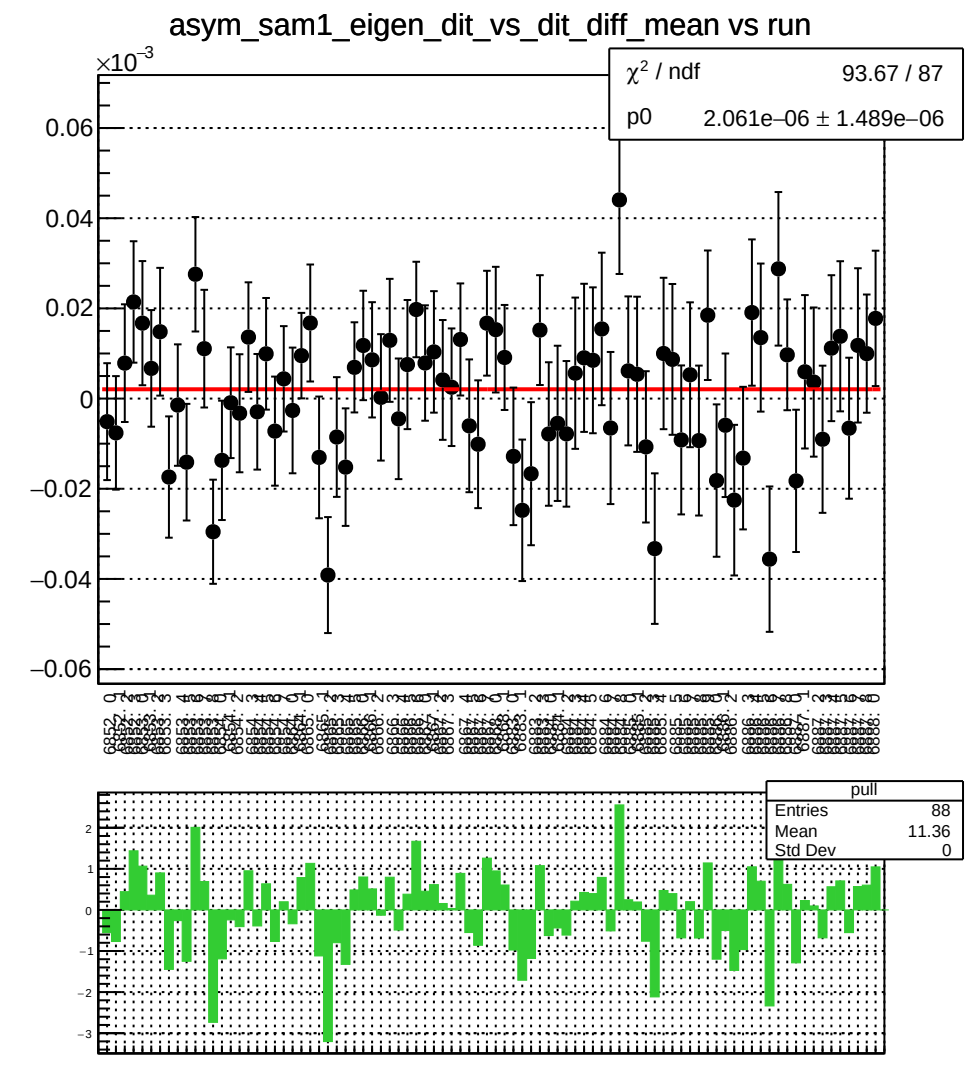

pull1D
Entries 88
Mean −0.000405
Std Dev 0.9848

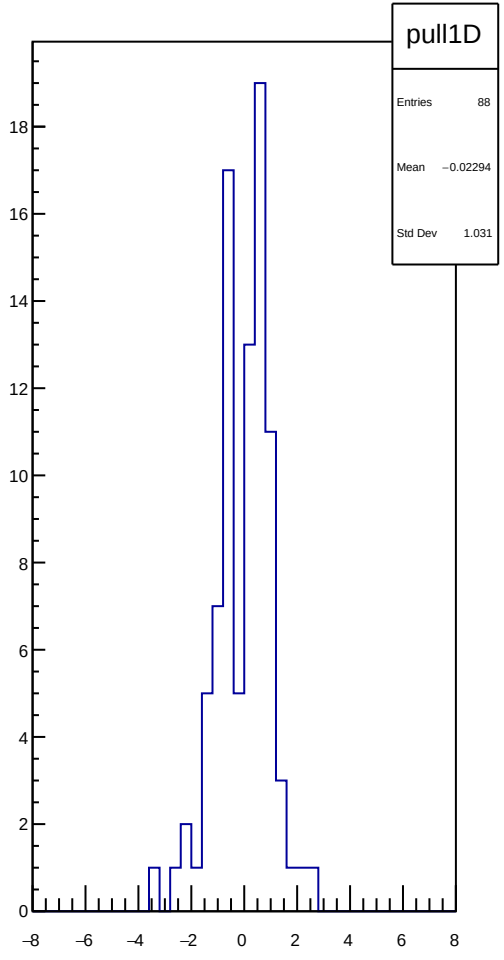

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 7.255e+04 / 87
p0 16.43 ± 0.01292
50
45
40
35
30
25
20
15
10

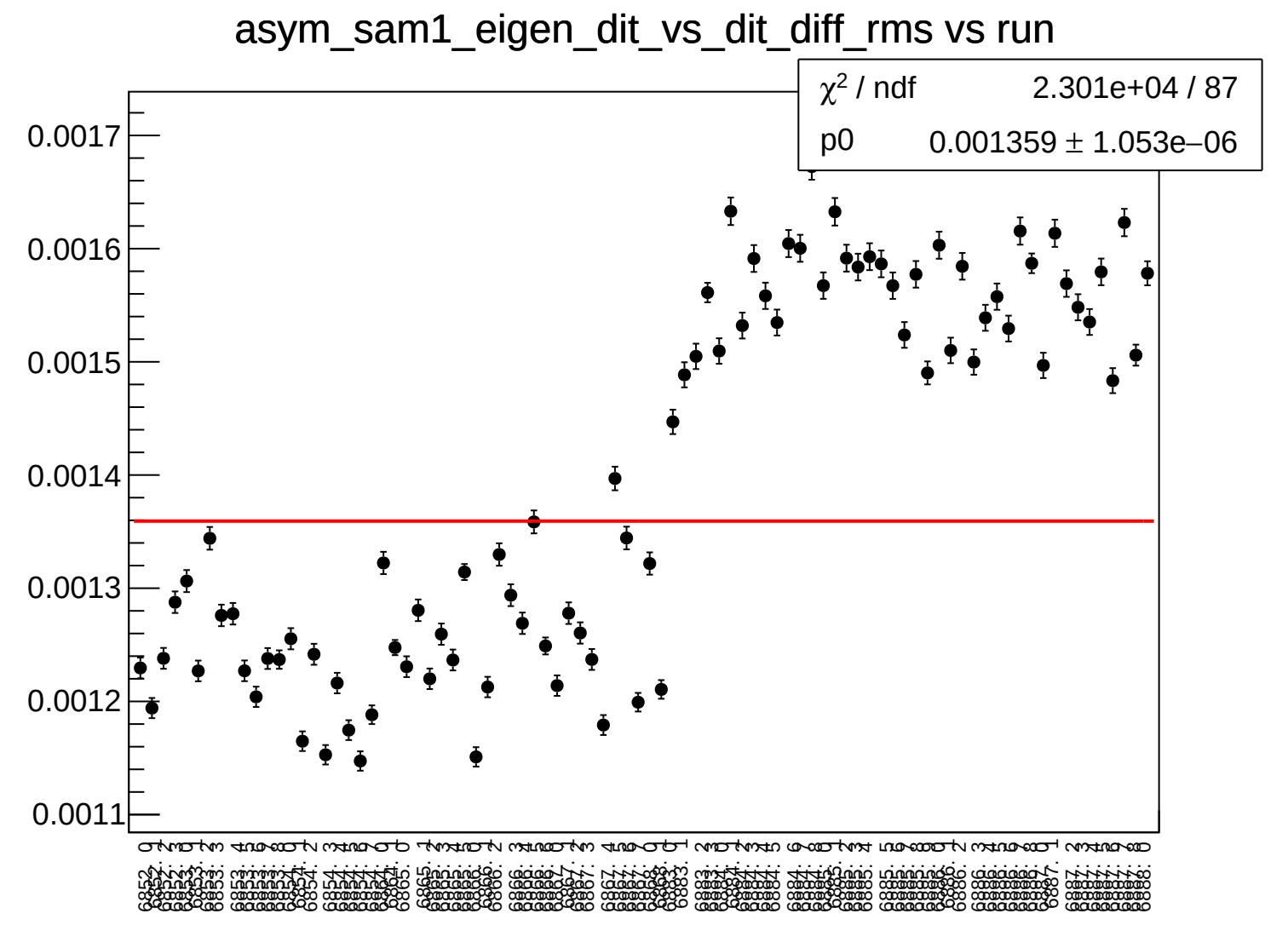

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.34 / 87
p0 −0.01362 ± 0.01827
pull
Entries 88
Mean 2847
Std Dev 0

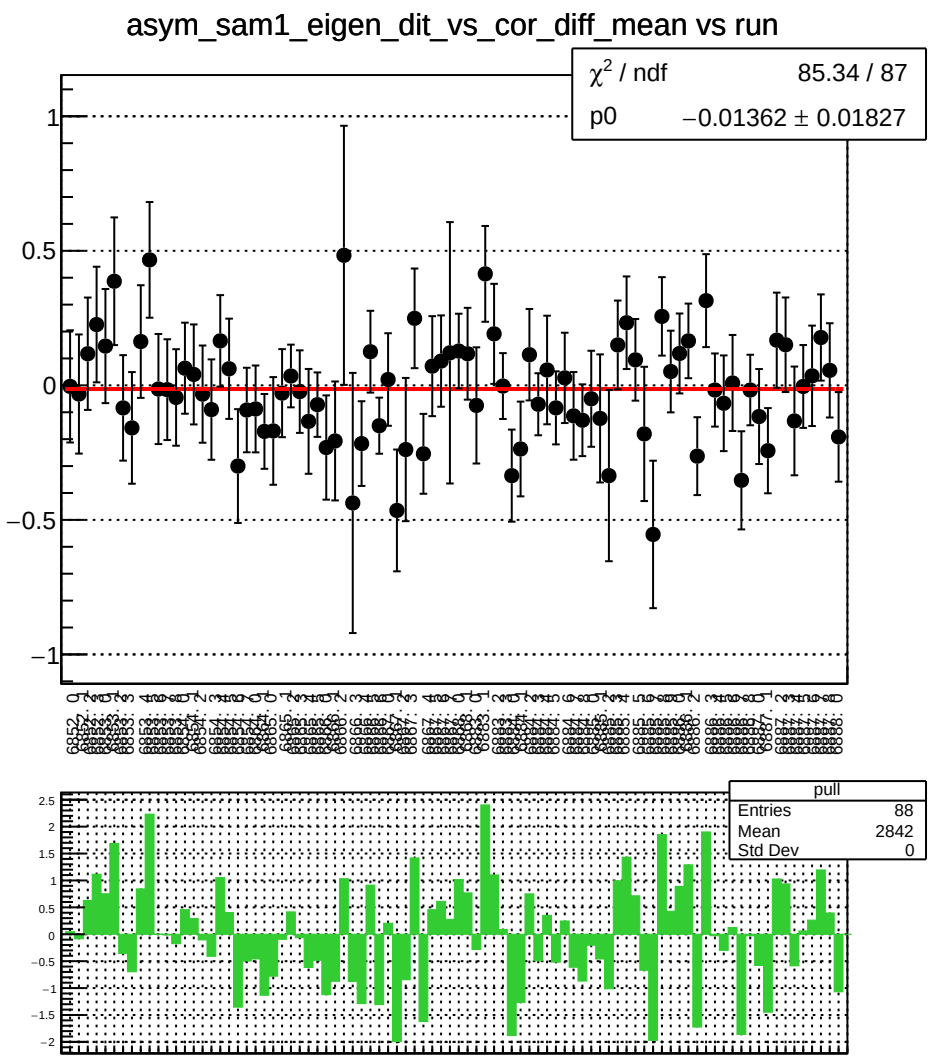

pull1D
Entries 88
Mean −0.000405
Std Dev 0.9848

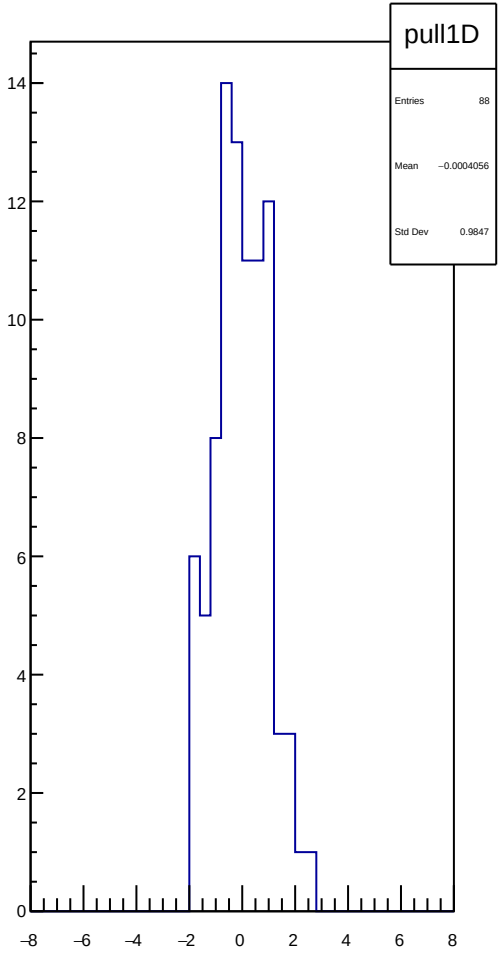

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.255e+04 / 87
p0 16.43 ± 0.01292
50
45
40
35
30
25
20
15
10

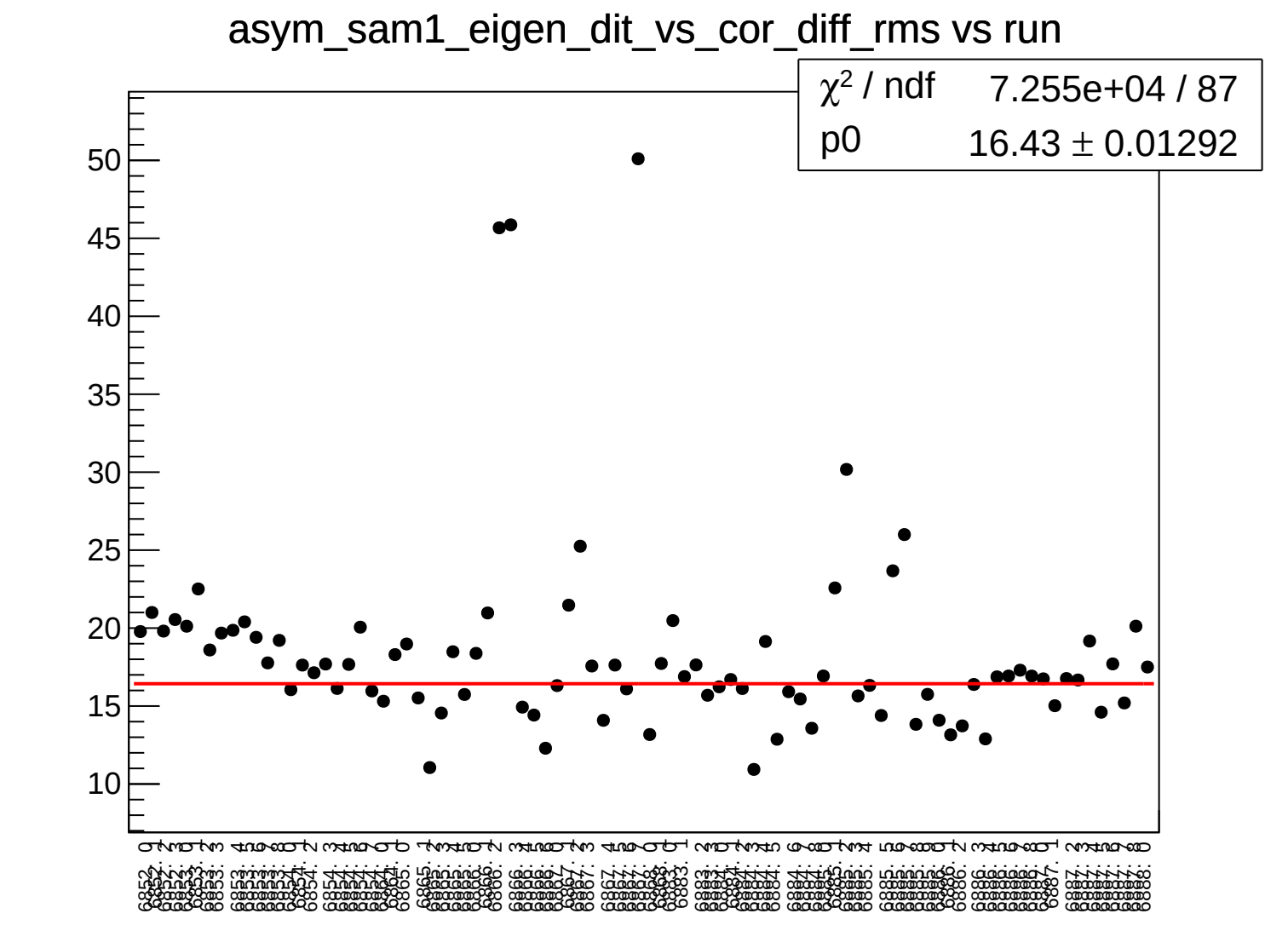

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.67 / 87
p0 2.061e−06 ± 1.489e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 11.36
Std Dev 0
2
1
0
−1
−2
−3

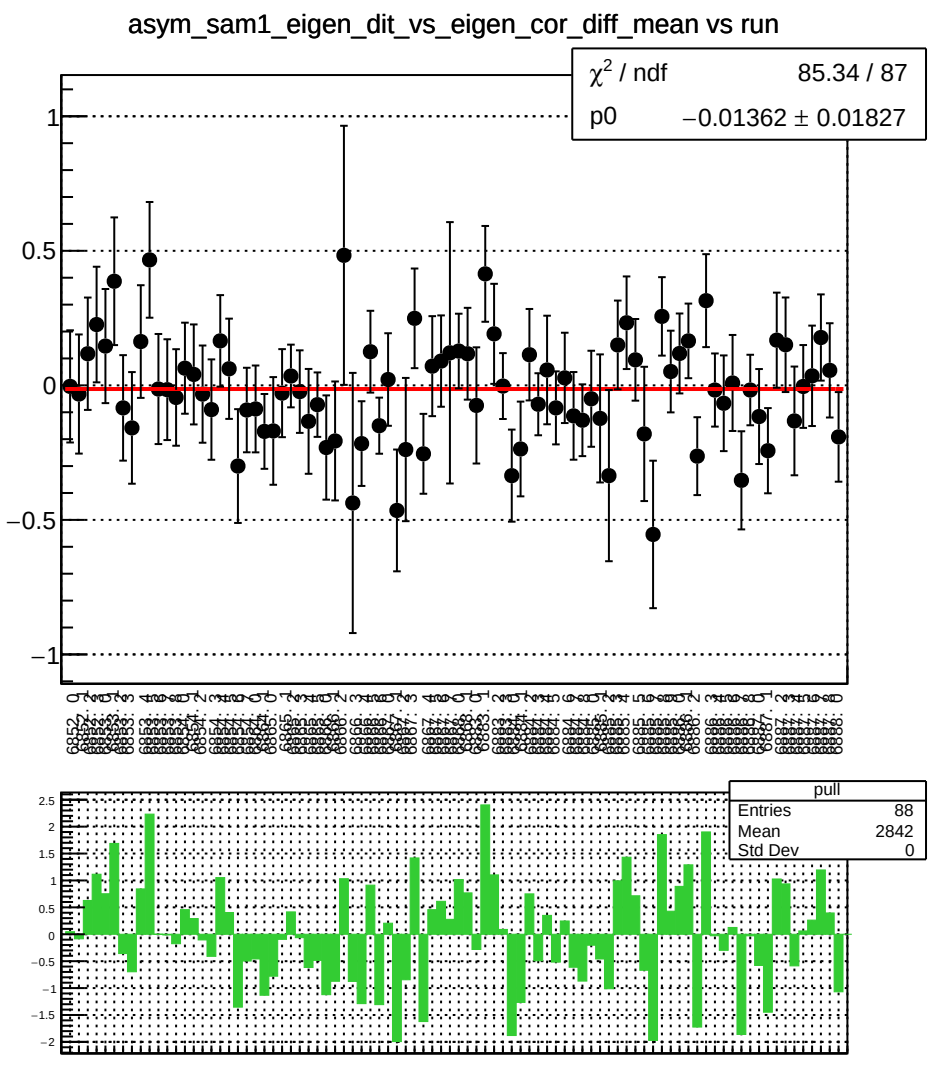

pull1D
Entries 88
Mean −0.02294
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

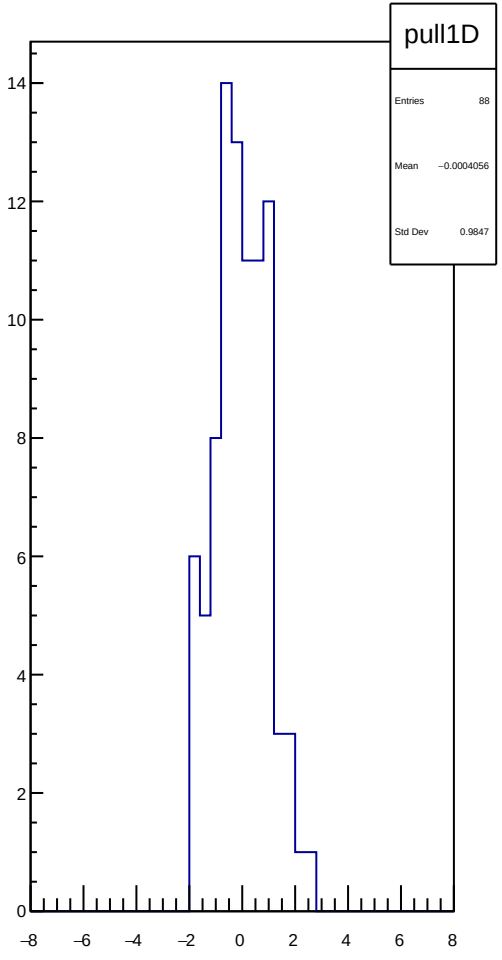

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.301e+04 / 87
p0 0.001359 ± 1.053e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

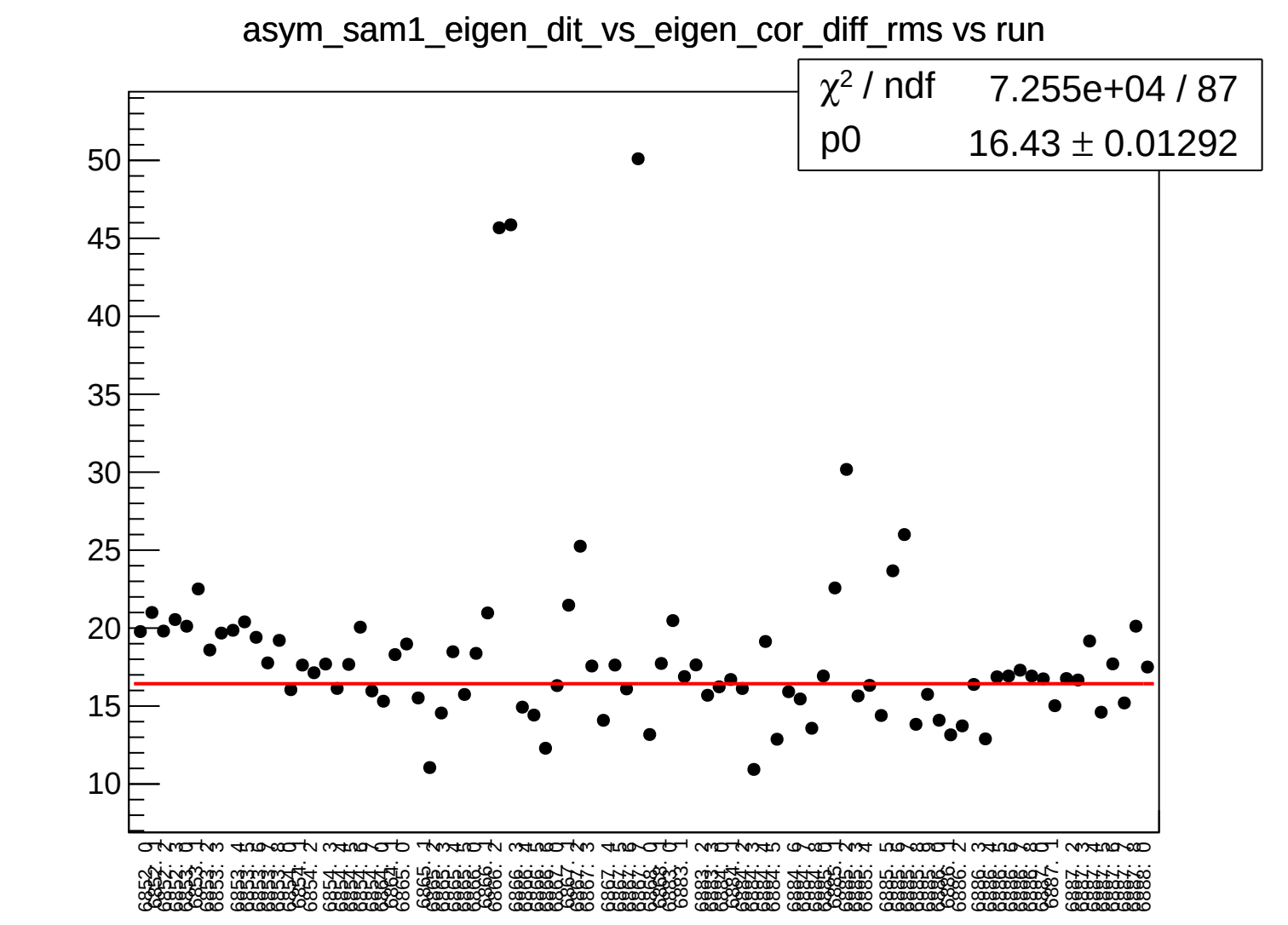

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.34 / 87
p0 −0.01362 ± 0.01827
pull
Entries 88
Mean 2842
Std Dev 0

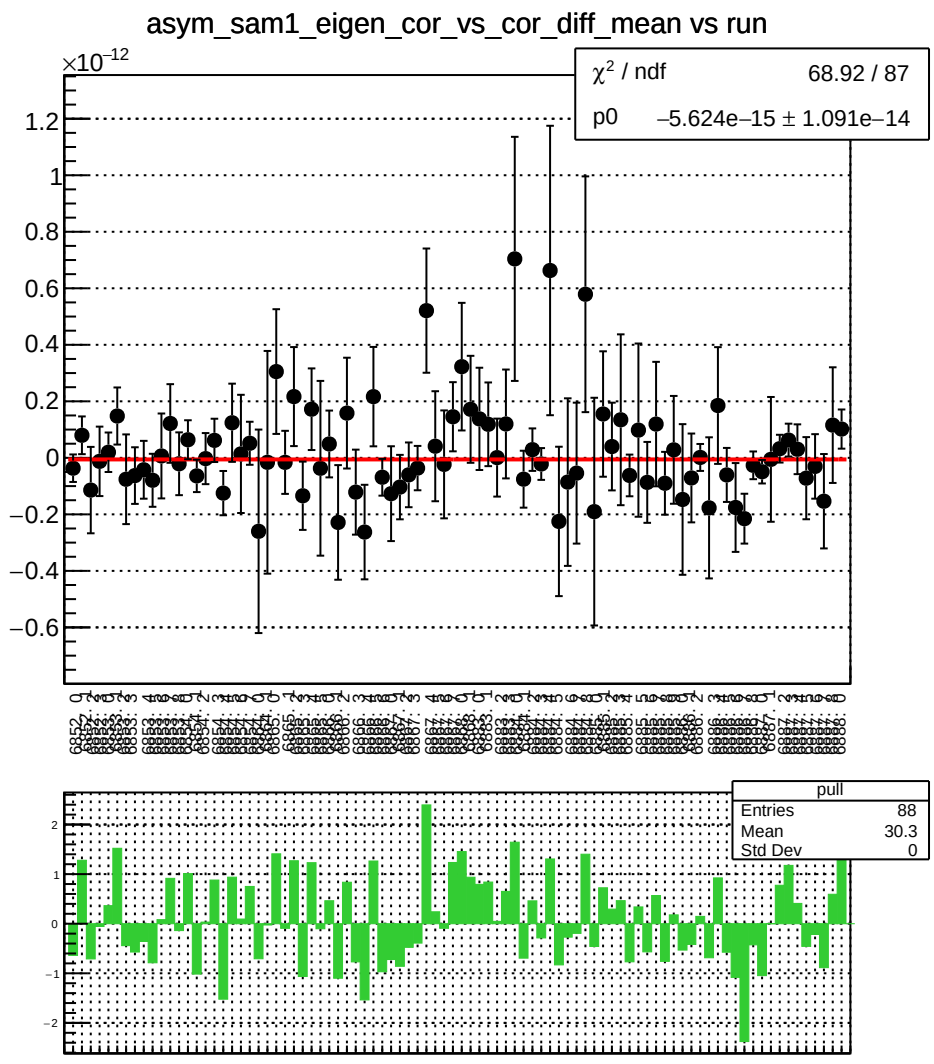

pull1D
Entries 88
Mean −0.0004056
Std Dev 0.9847

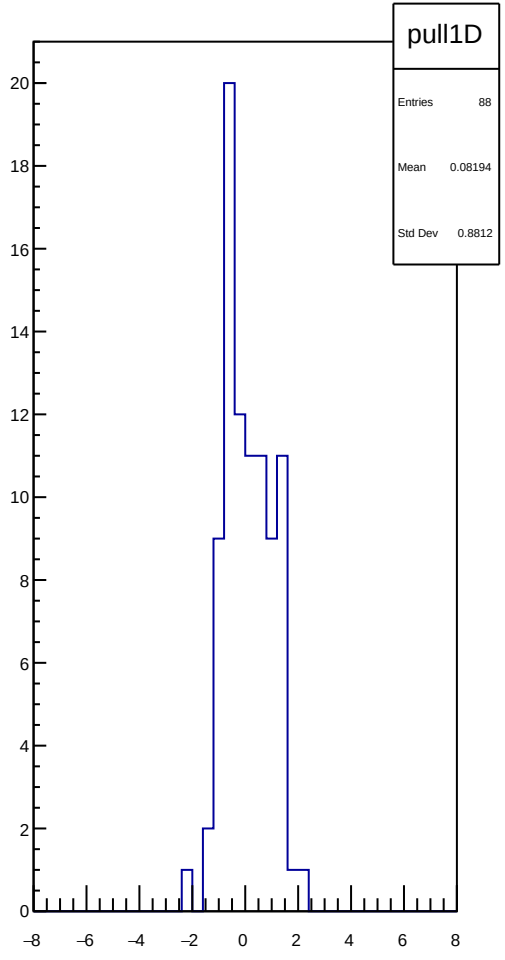

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.255e+04 / 87
p0 16.43 ± 0.01292
50
45
40
35
30
25
20
15
10

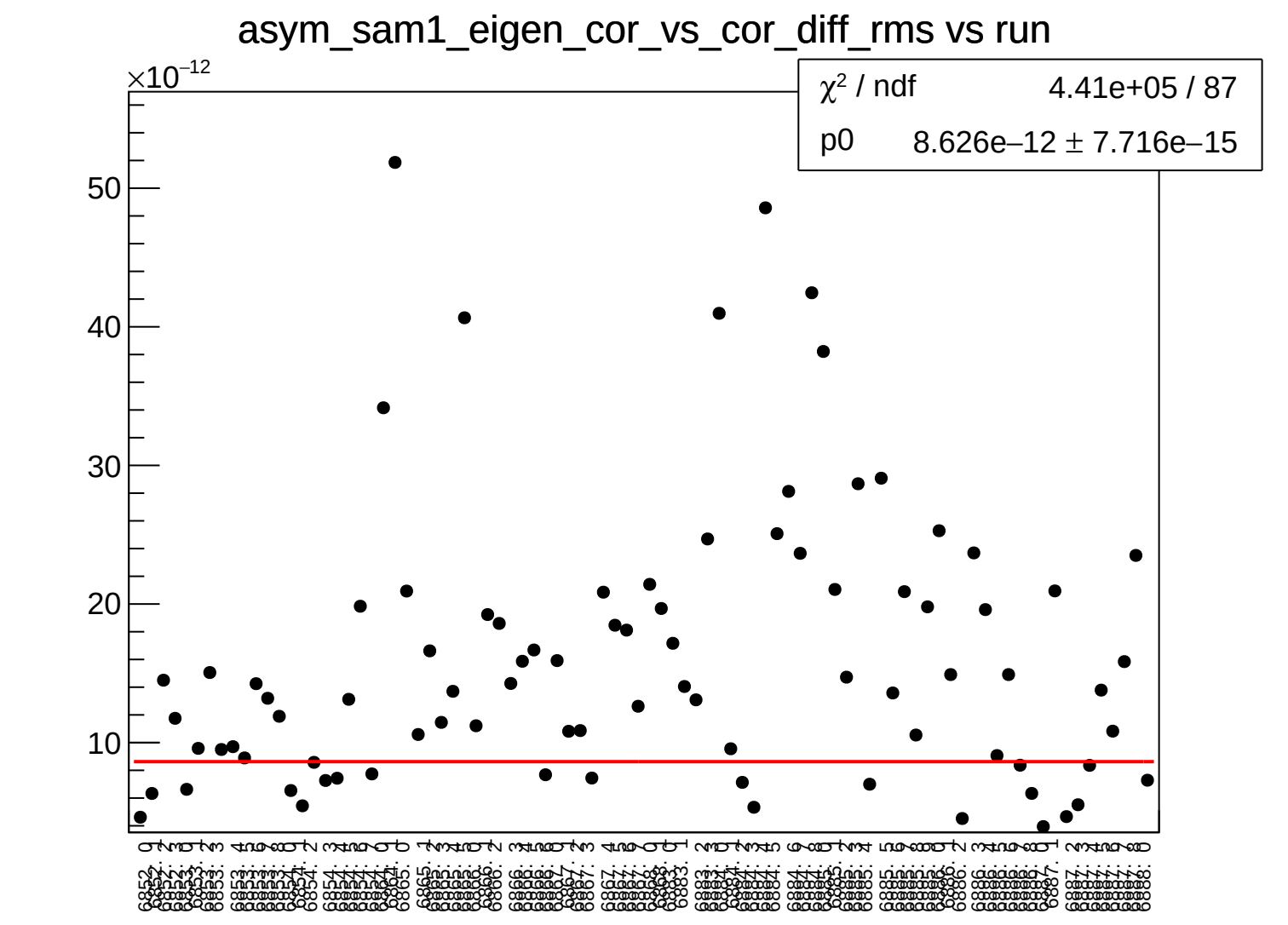

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.34 / 87
p0 −0.01362 ± 0.01827
pull
Entries 88
Mean 2842
Std Dev 0

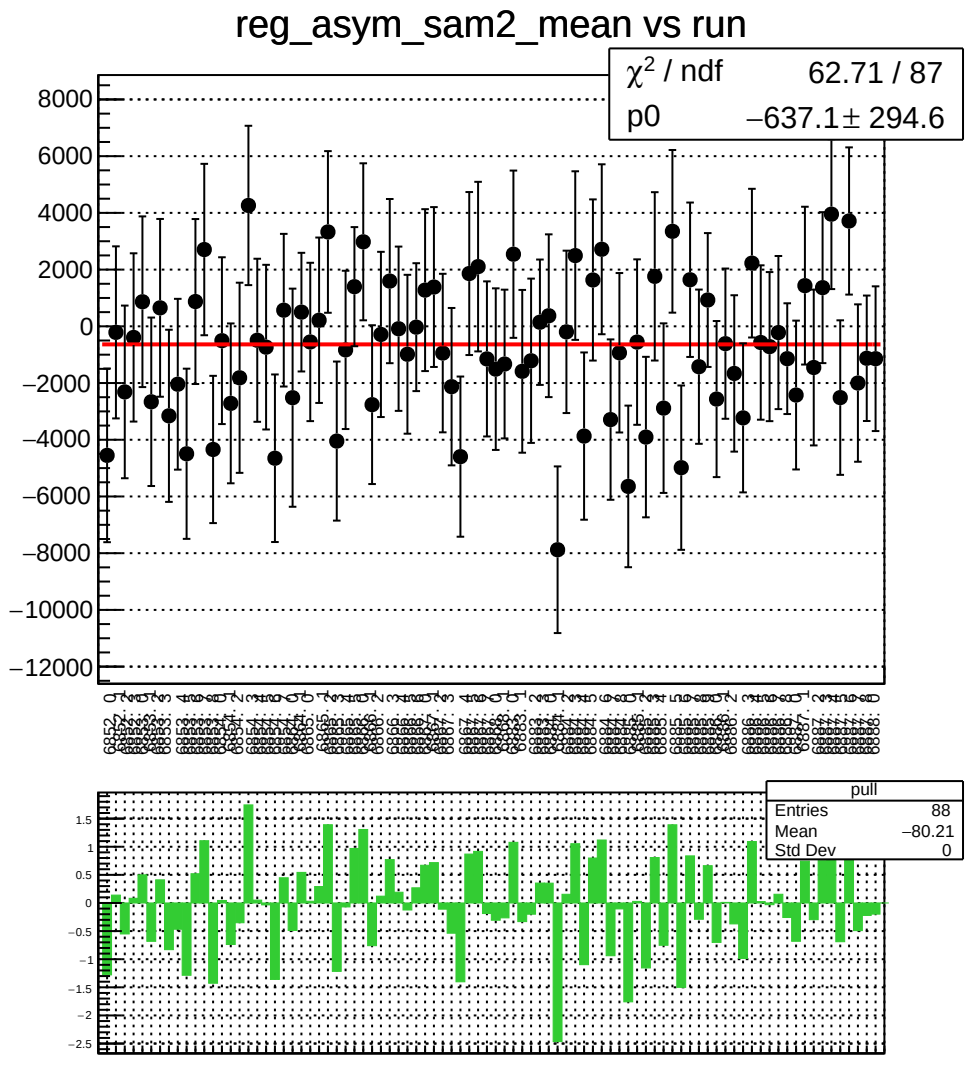

pull1D
Entries 88
Mean −0.0004056
Std Dev 0.9847

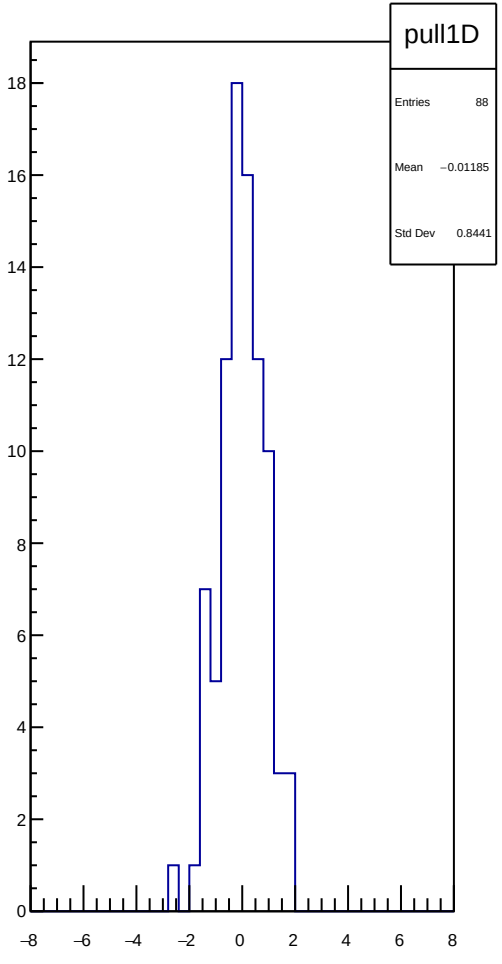

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.255e+04 / 87
p0 16.43 ± 0.01292
50
45
40
35
30
25
20
15
10

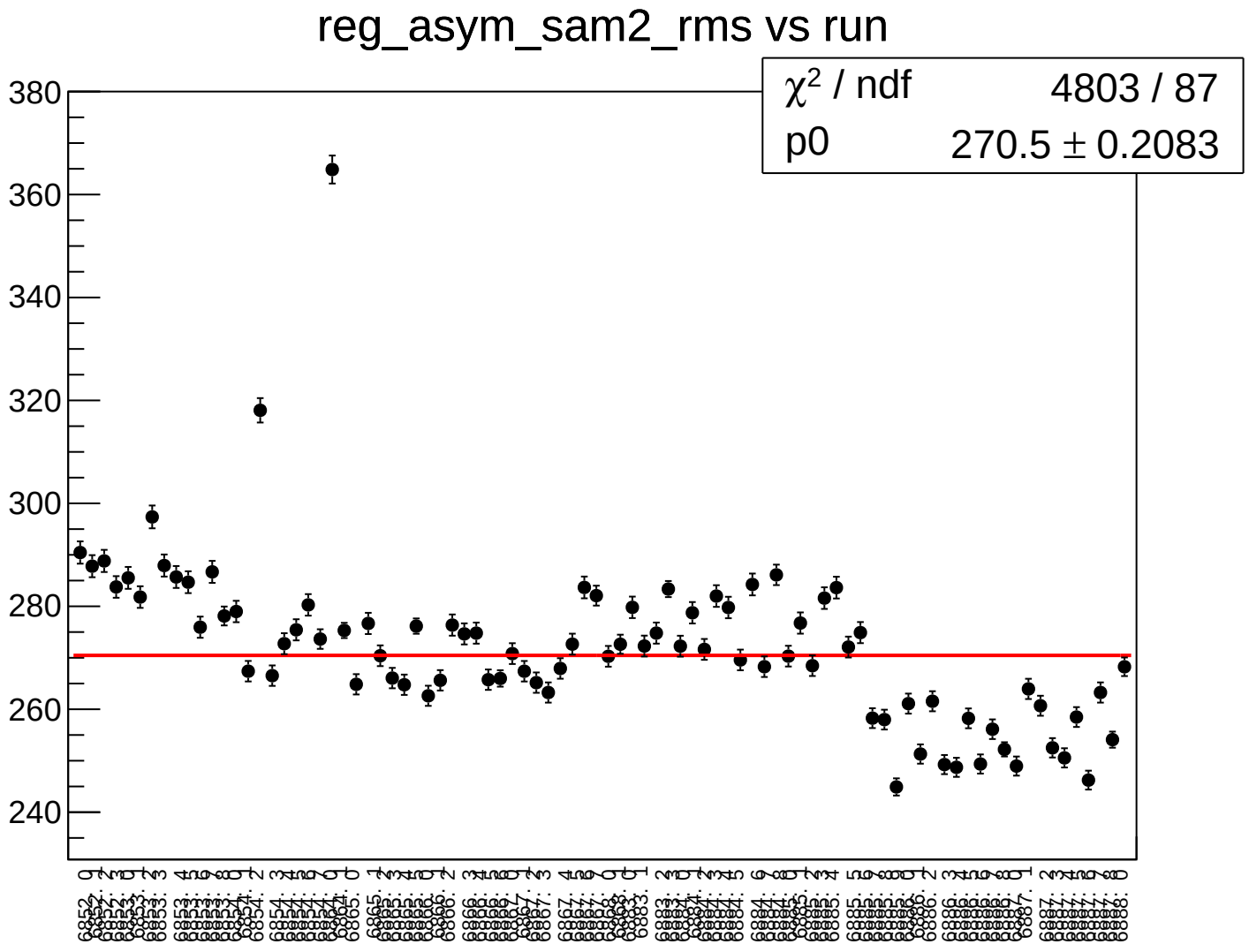

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.92 / 87
p0 −5.624e−15 ± 1.091e−14
pull
Entries 88
Mean 30.3
Std Dev 0

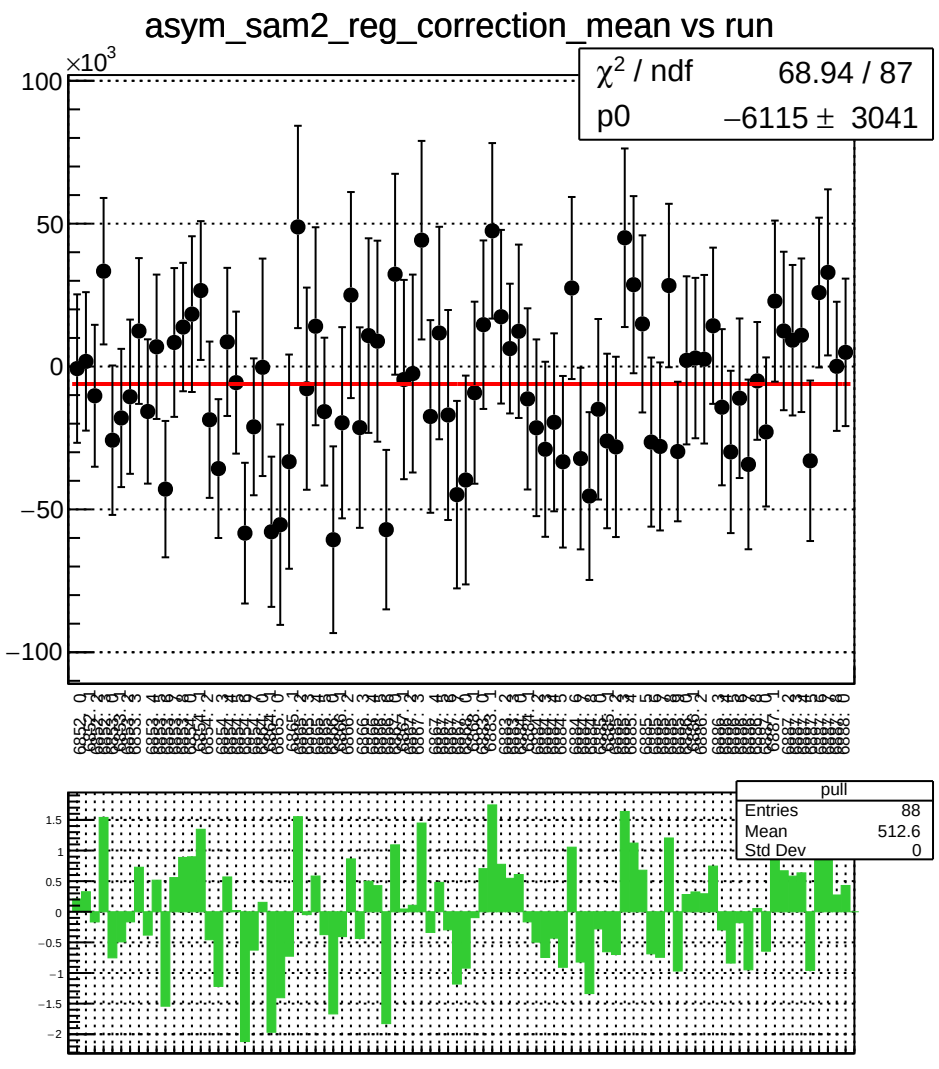

pull1D
Entries 88
Mean 0.08194
Std Dev 0.8812

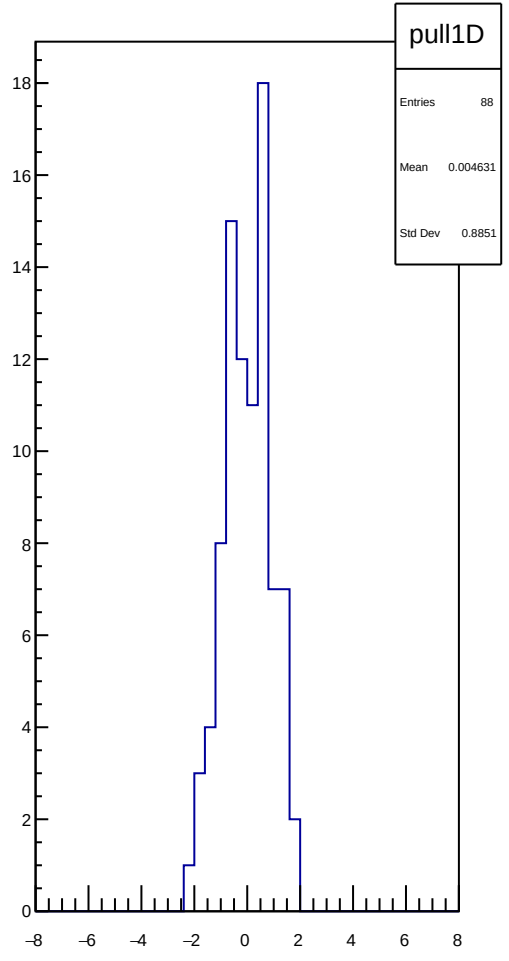

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.41e+05 / 87
p0 8.626e−12 ± 7.716e−15
50
40
30
20
10

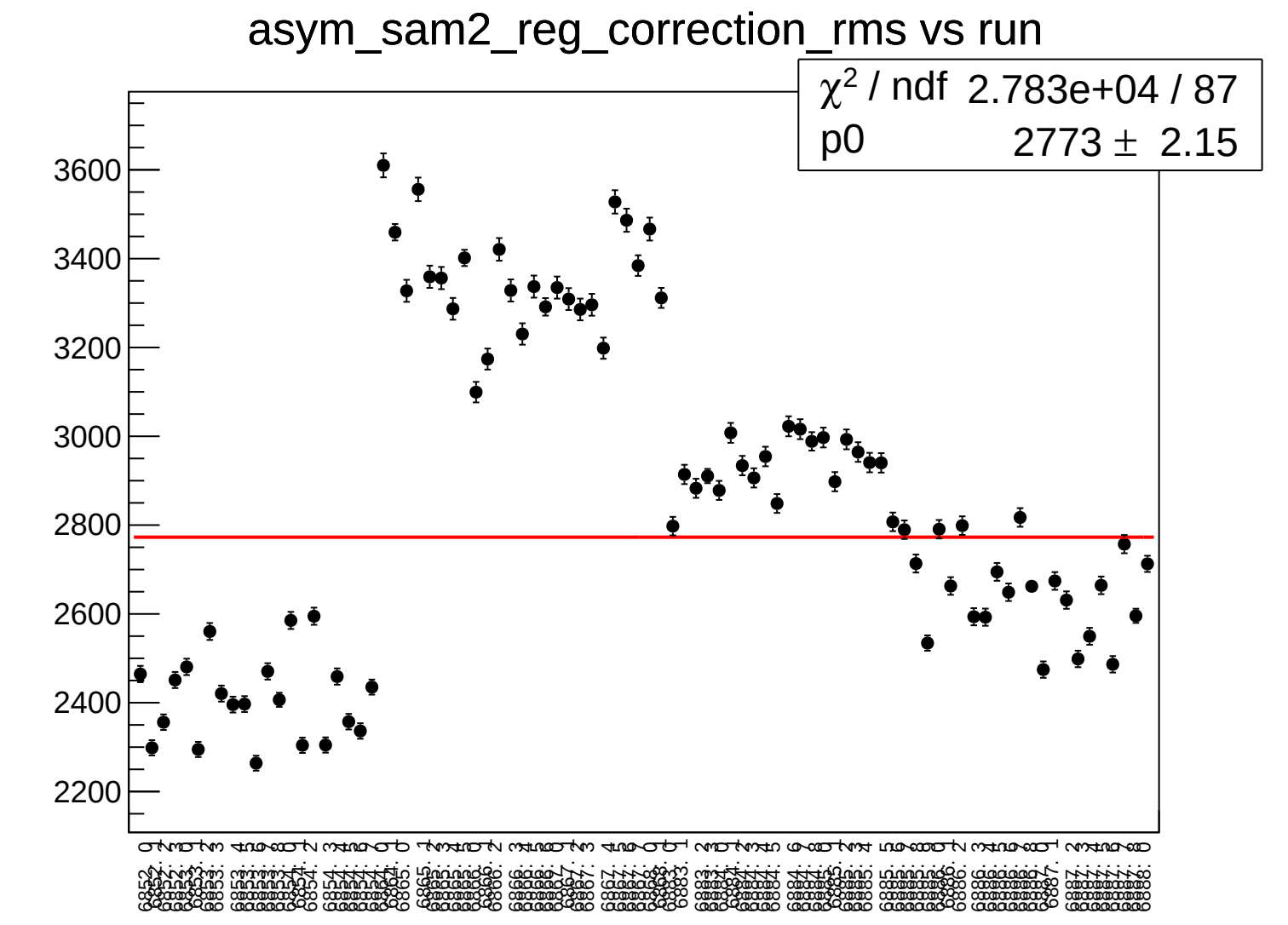

reg_asym_sam2_mean vs run
χ² / ndf 62.71 / 87
p0 −637.1± 294.6
pull
Entries 88
Mean −80.21
Std Dev 0

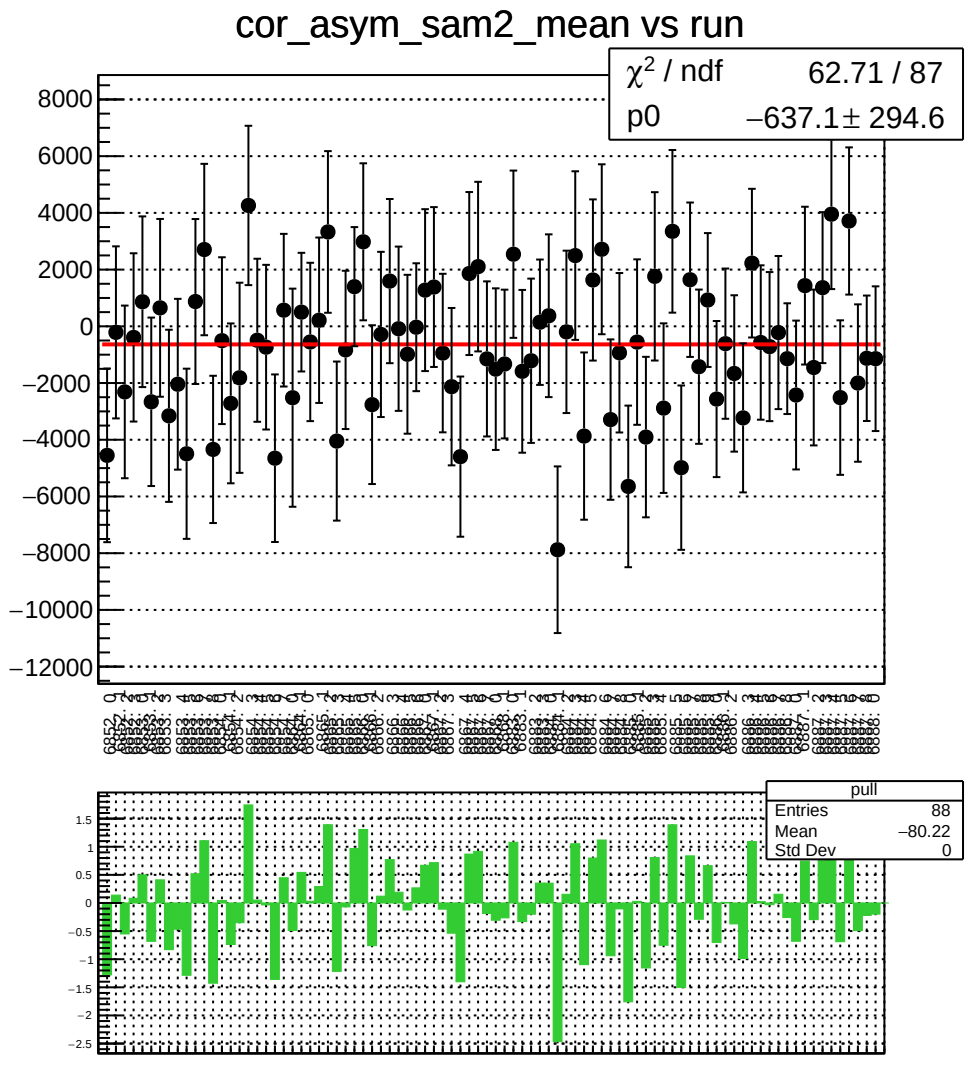

pull1D
Entries 88
Mean −0.01185
Std Dev 0.8441

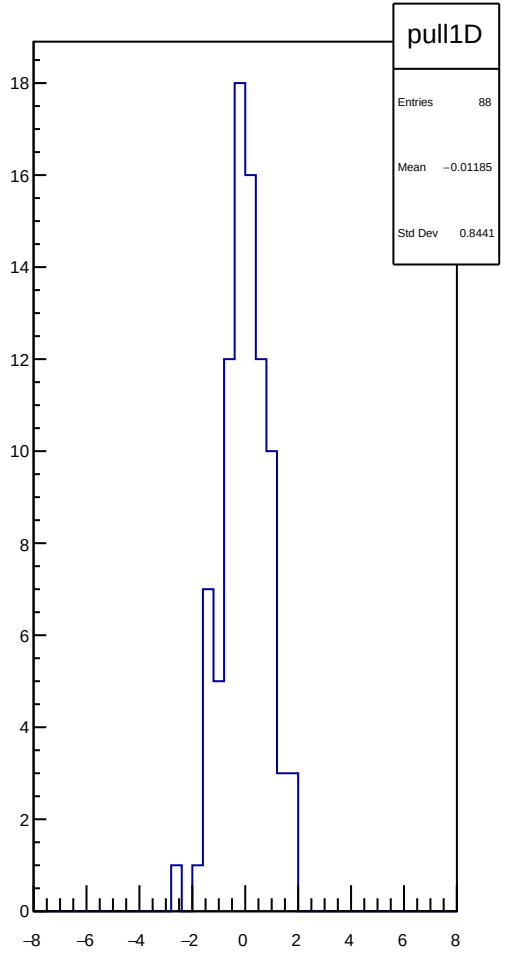

reg_asym_sam2_rms vs run
χ² / ndf 4803 / 87
p0 270.5 ± 0.2083
380
360
340
320
300
280
260
240

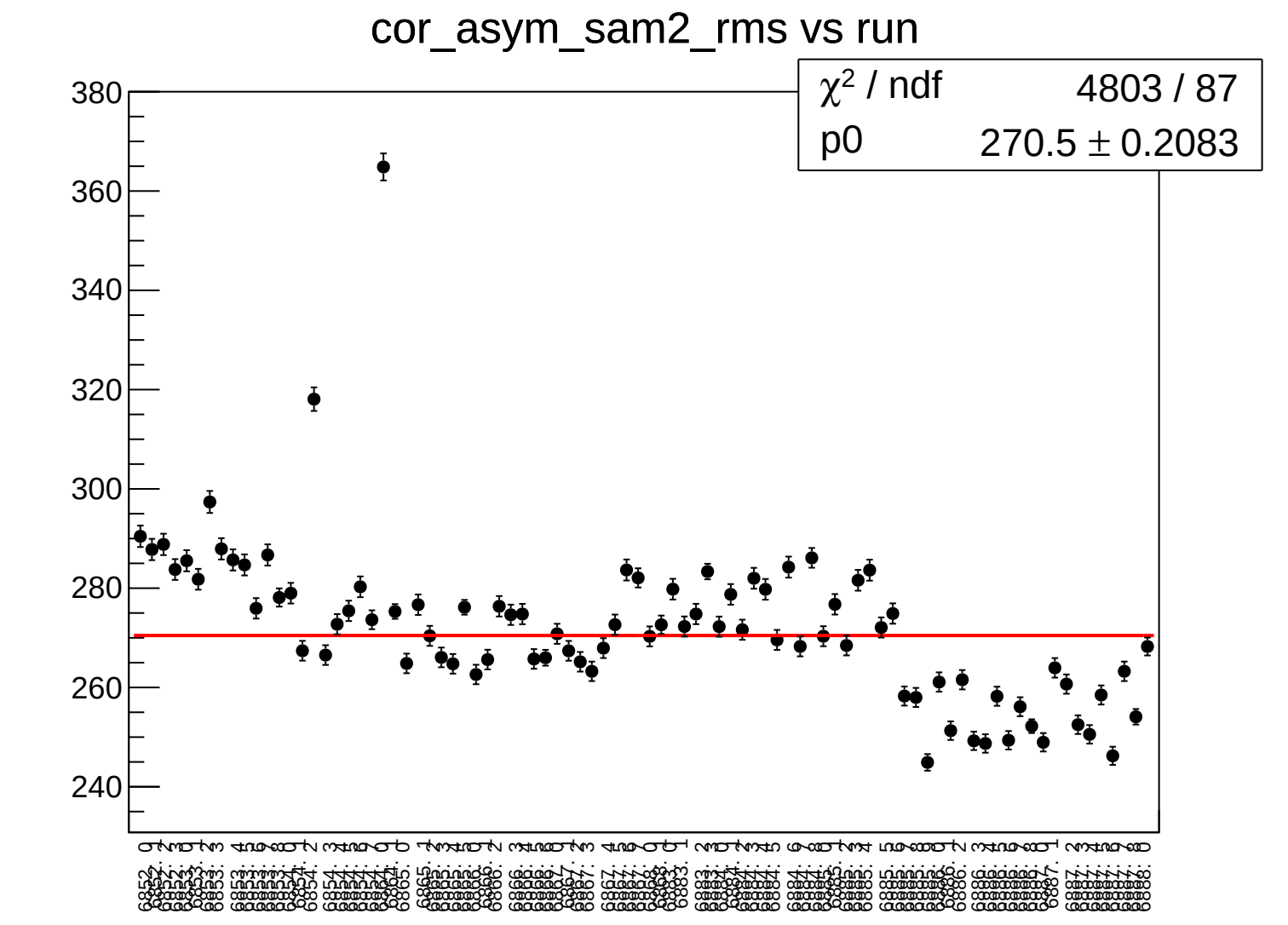

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 68.94 / 87
p0 −6115 ± 3041
100
50
0
−50
−100
pull
Entries 88
Mean 512.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

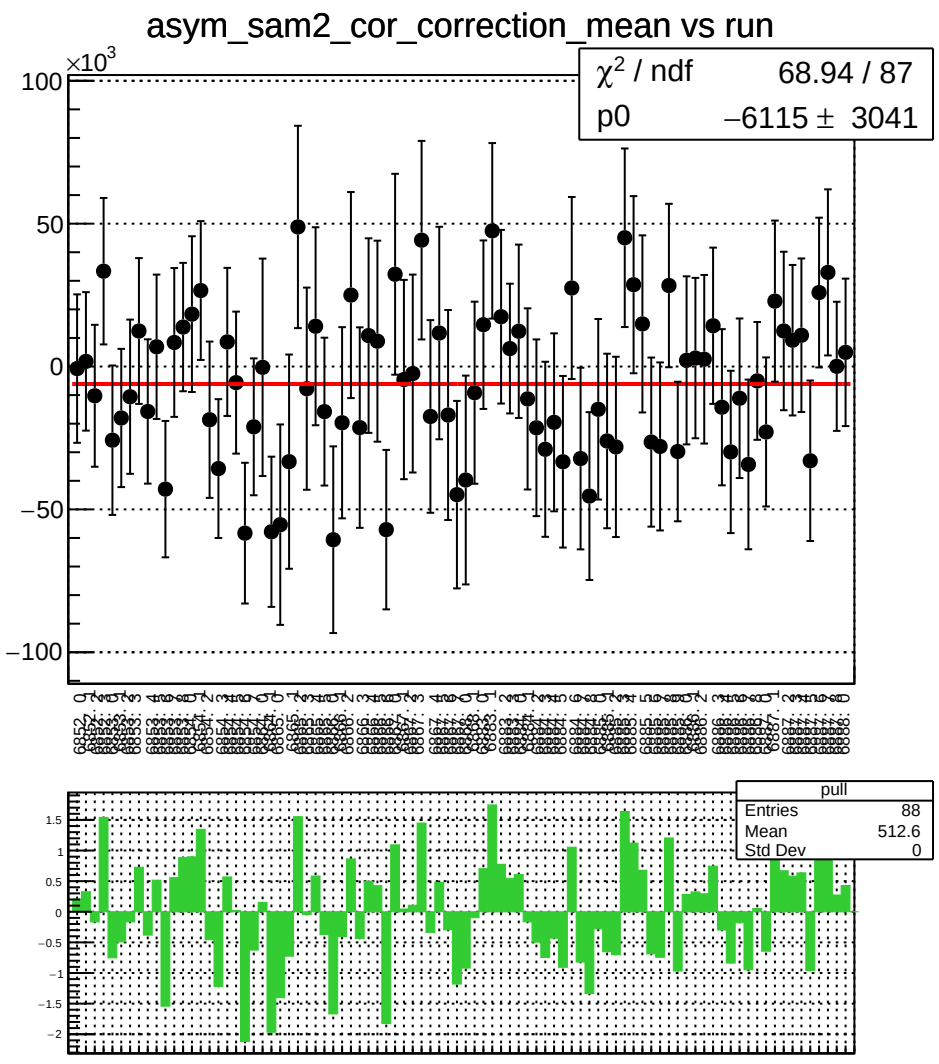

pull1D
Entries 88
Mean 0.004631
Std Dev 0.8851
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

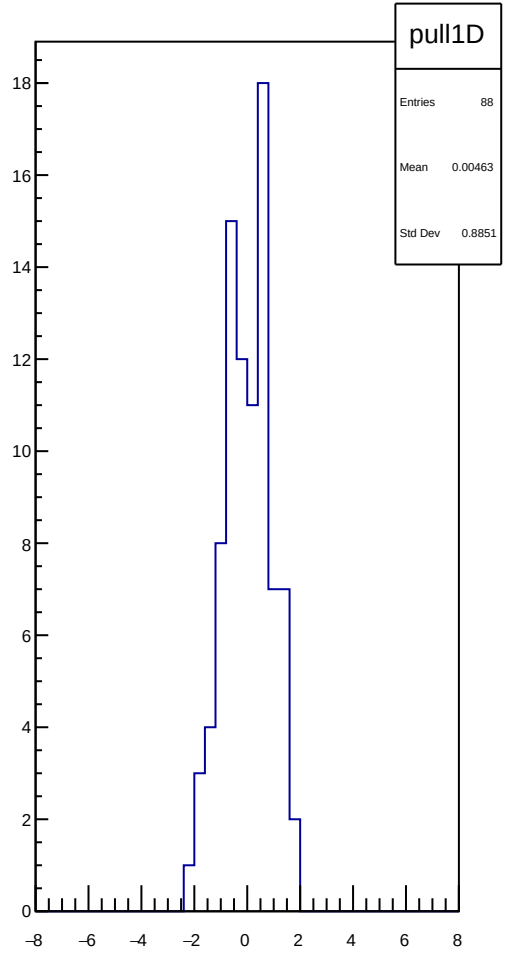

asym_sam2_reg_correction_rms vs run
χ² / ndf 2.783e+04 / 87
p0 2773 ± 2.15
3600
3400
3200
3000
2800
2600
2400
2200

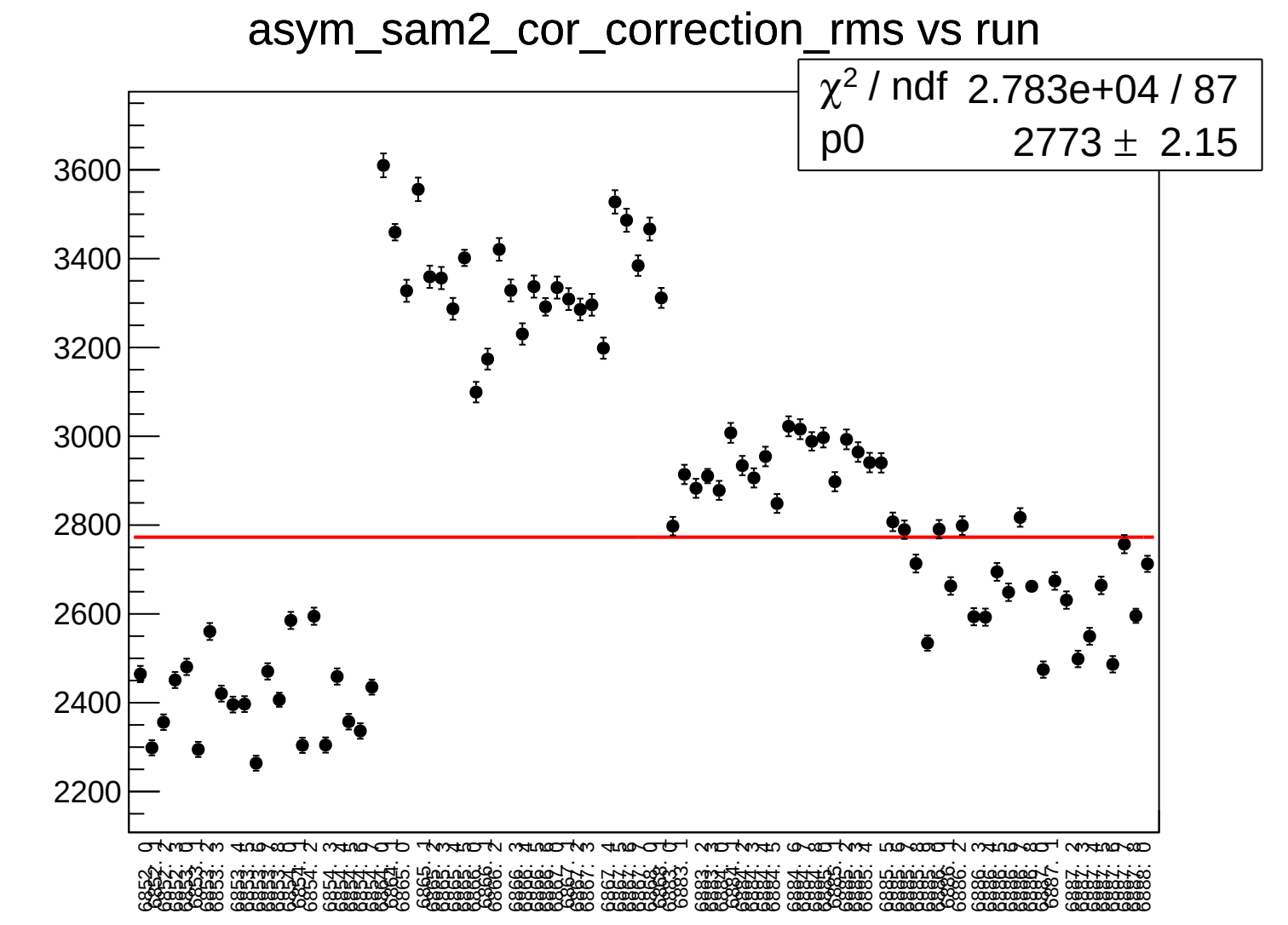

cor_asym_sam2_mean vs run
χ² / ndf 62.71 / 87
p0 −637.1± 294.6
pull
Entries 88
Mean −80.22
Std Dev 0

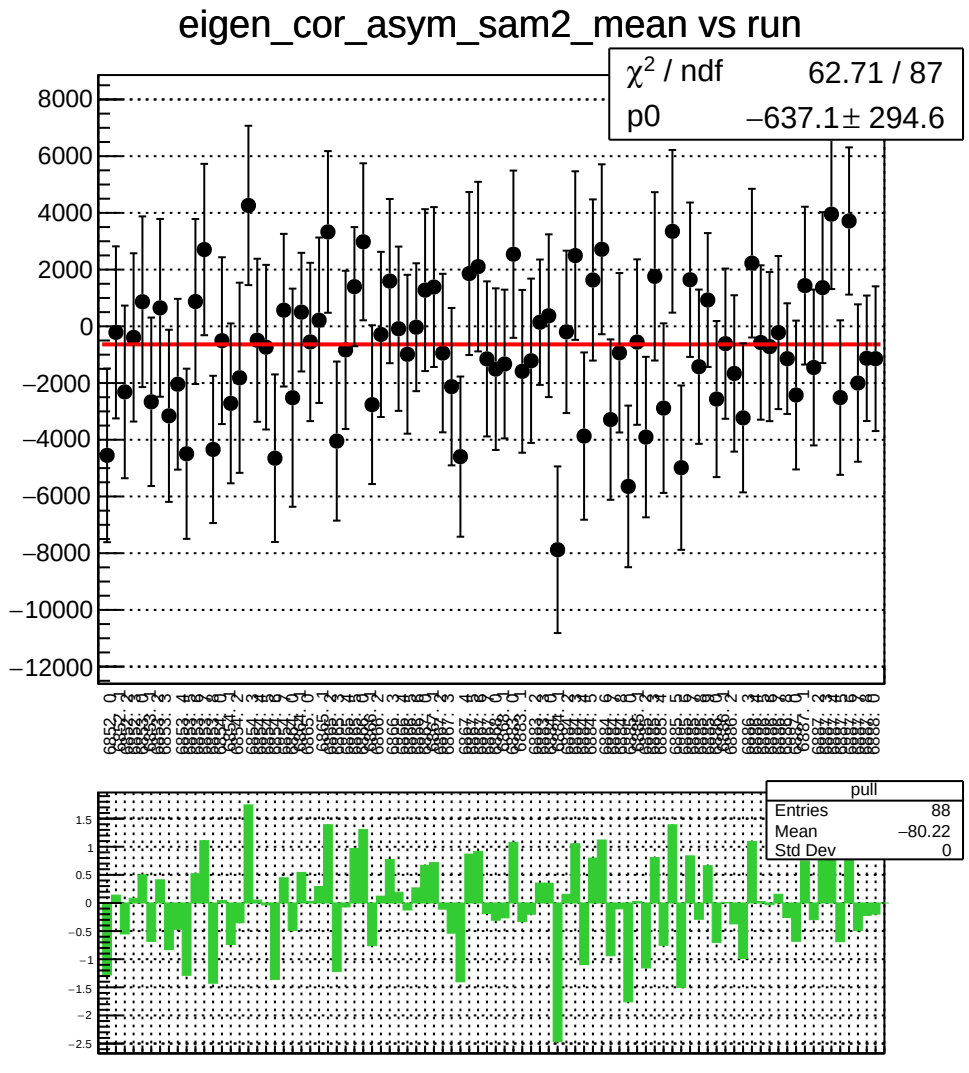

pull1D
Entries 88
Mean −0.01185
Std Dev 0.8441

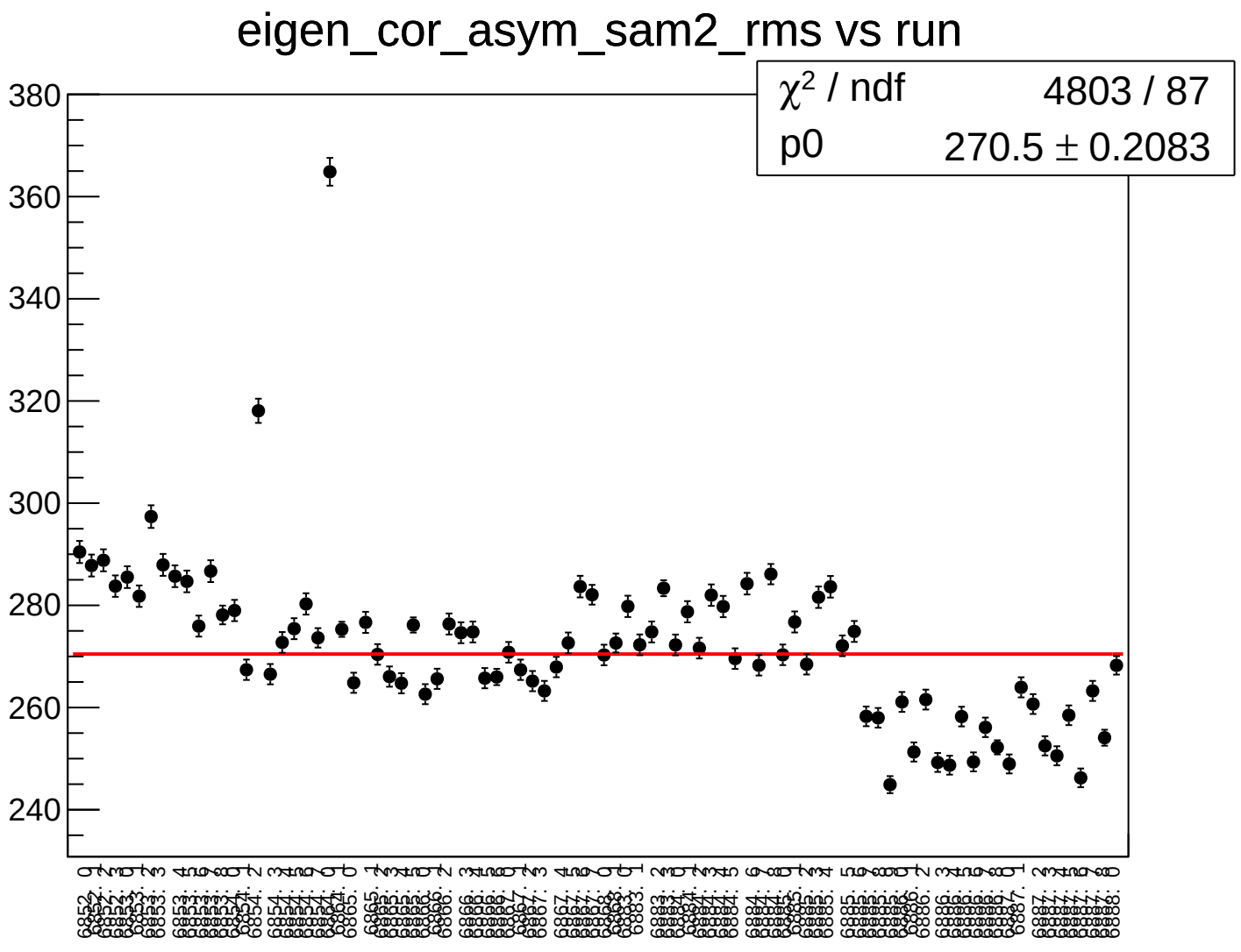

cor_asym_sam2_rms vs run
χ² / ndf 4803 / 87
p0 270.5 ± 0.2083
380
360
340
320
300
280
260
240

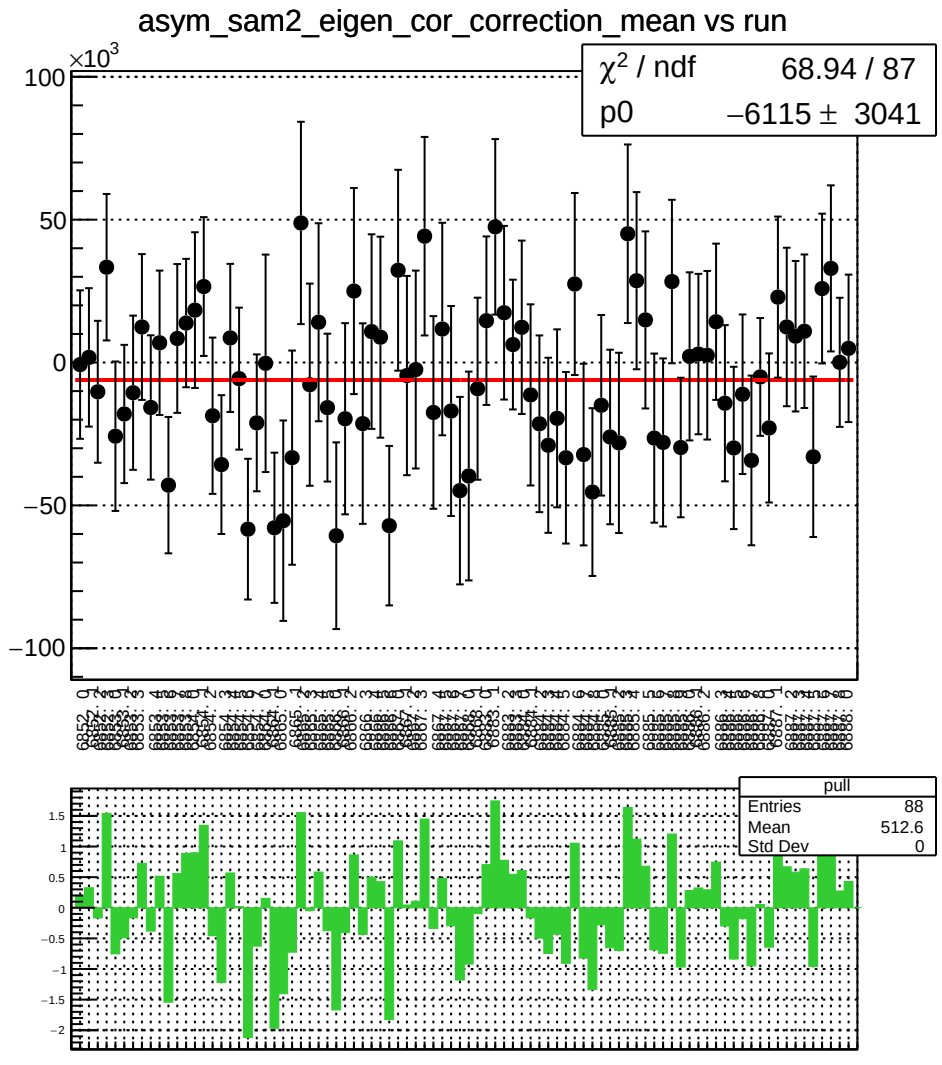

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 68.94 / 87
p0 −6115 ± 3041
100
50
0
−50
−100
pull
Entries 88
Mean 512.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

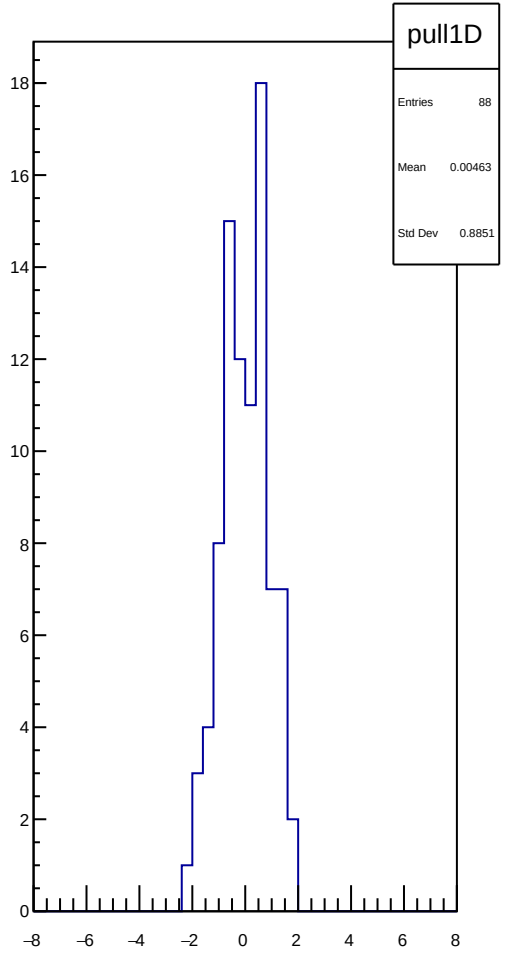

pull1D
Entries 88
Mean 0.00463
Std Dev 0.8851
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

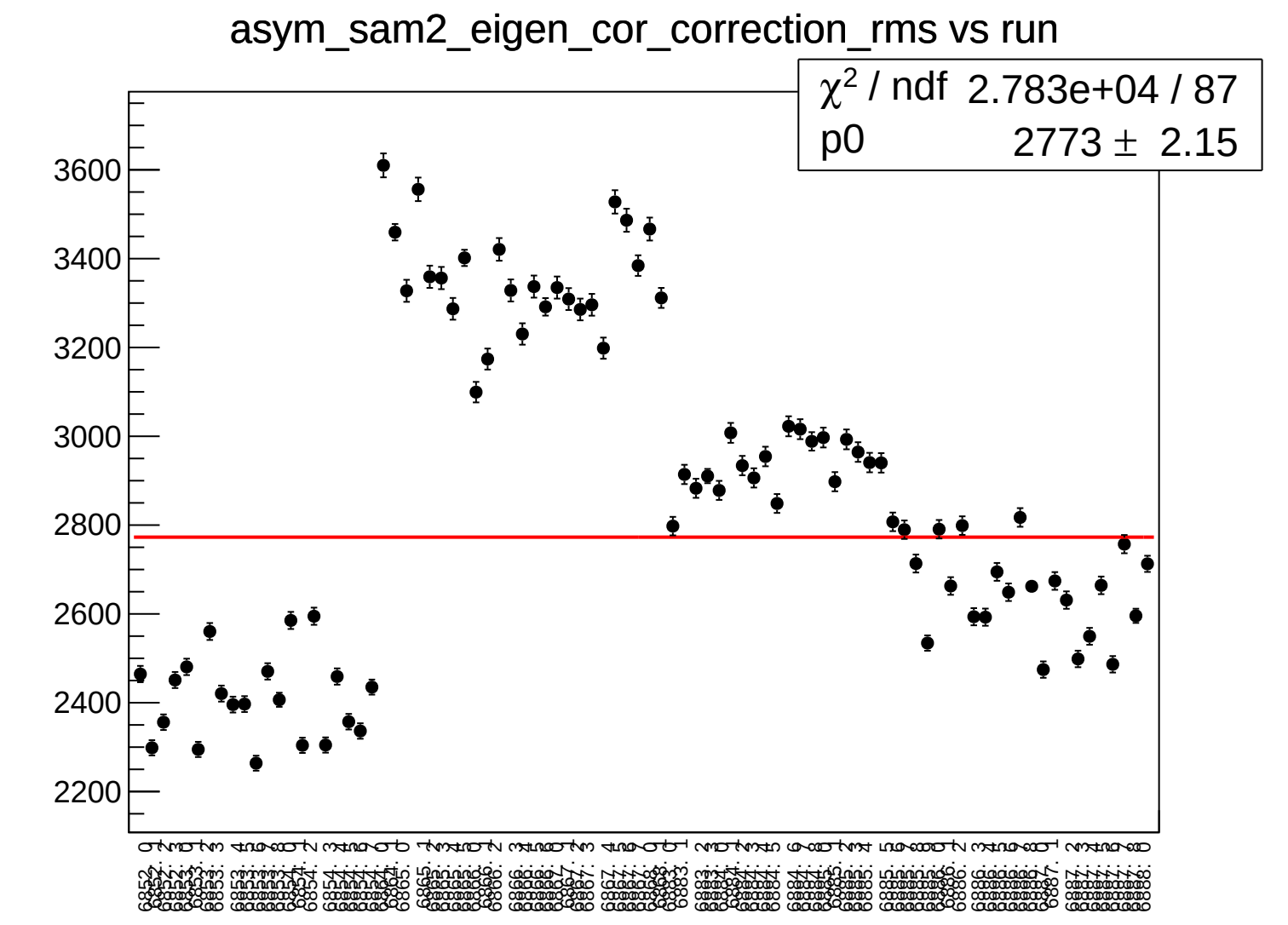

asym_sam2_cor_correction_rms vs run
χ² / ndf 2.783e+04 / 87
p0 2773 ± 2.15
3600
3400
3200
3000
2800
2600
2400
2200

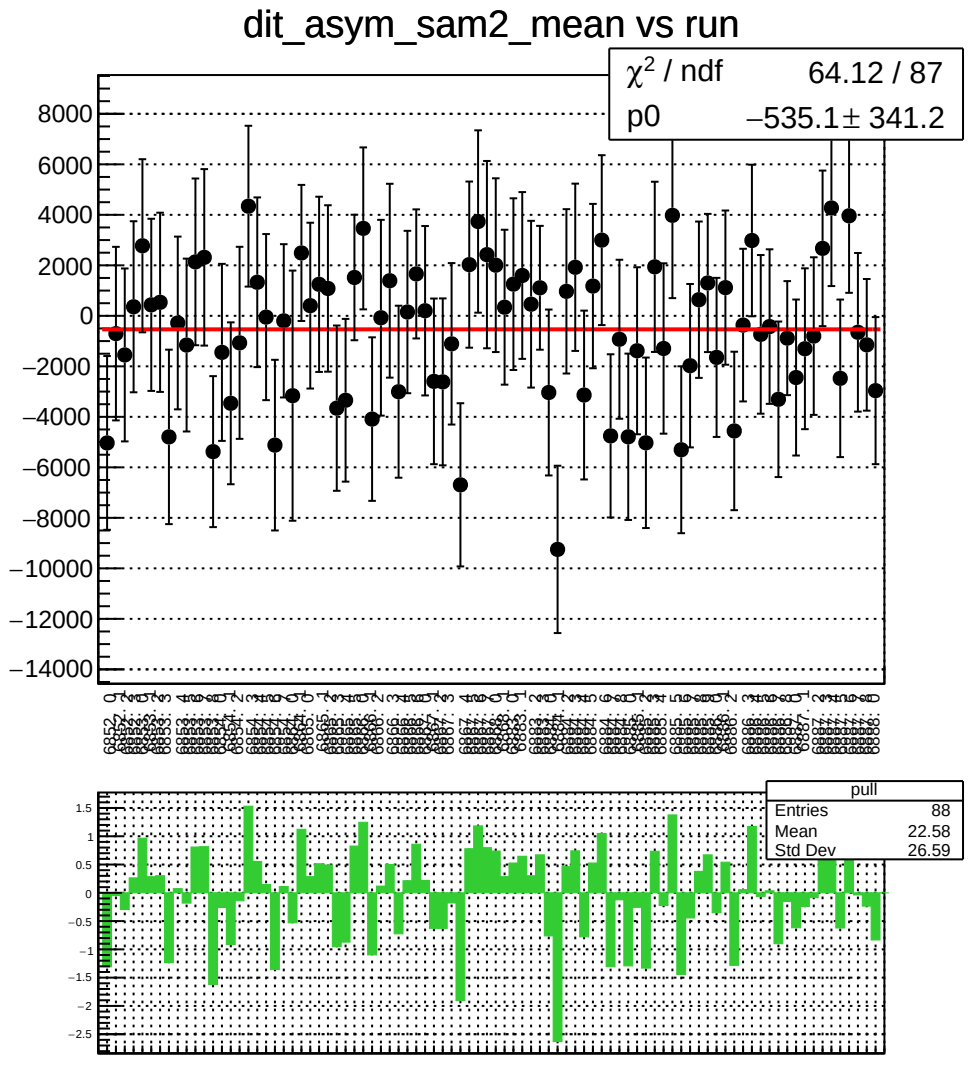

eigen_cor_asym_sam2_mean vs run
χ² / ndf 62.71 / 87
p0 −637.1± 294.6
pull
Entries 88
Mean −80.22
Std Dev 0
pull1D
Entries 88
Mean −0.01185
Std Dev 0.8441

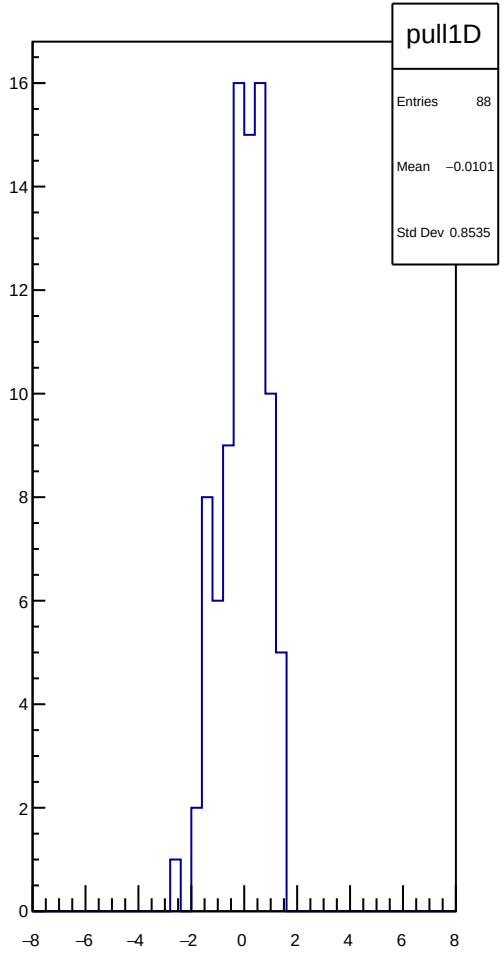

eigen_cor_asym_sam2_rms vs run
χ² / ndf 4803 / 87
p0 270.5 ± 0.2083
380
360
340
320
300
280
260
240

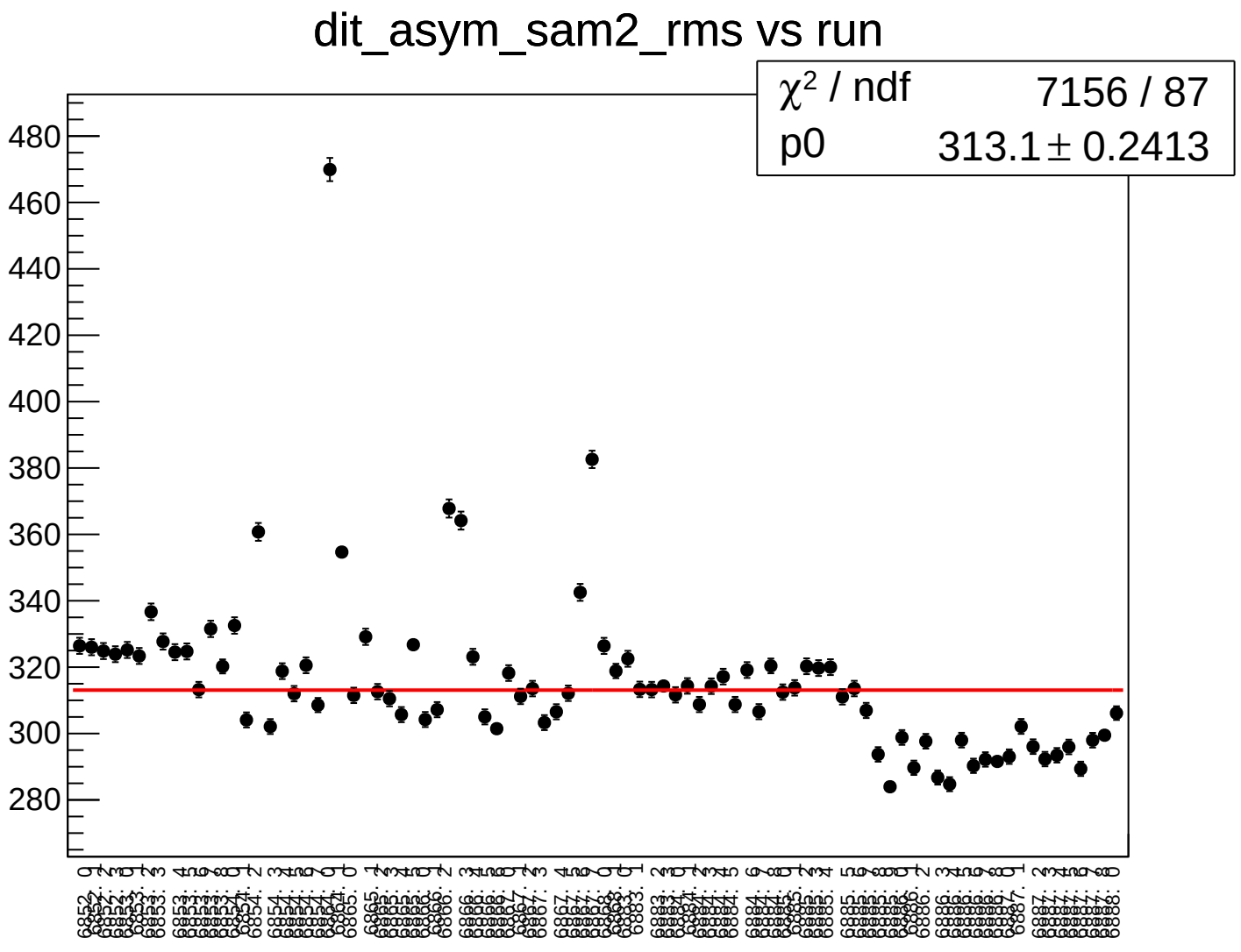

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.94 / 87
p0 −6115 ± 3041
100
50
0
−50
−100
pull
Entries 88
Mean 512.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

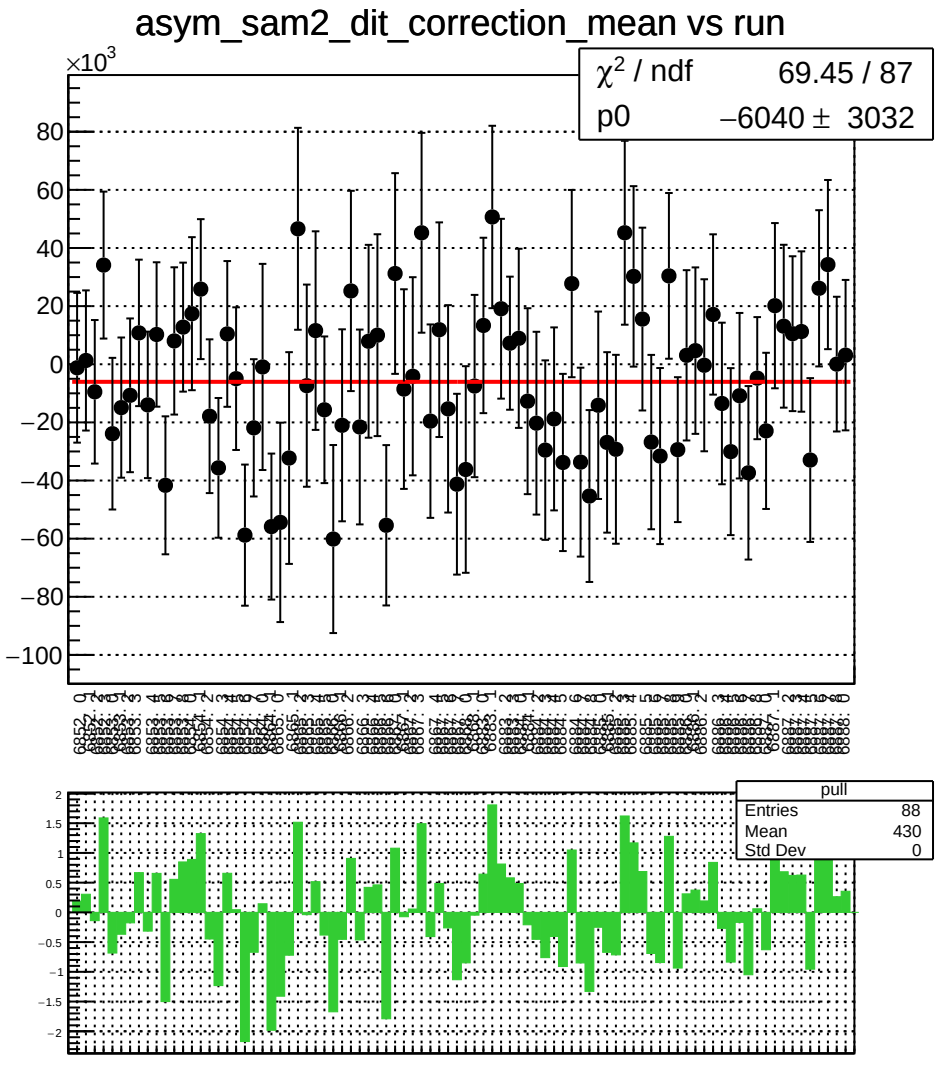

pull1D
Entries 88
Mean 0.00463
Std Dev 0.8851
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

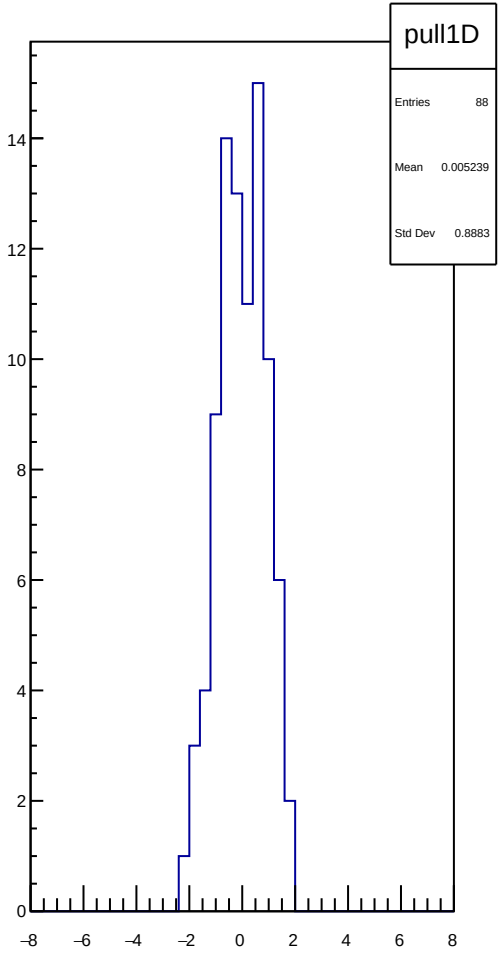

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 2.783e+04 / 87
p0 2773 ± 2.15
3600
3400
3200
3000
2800
2600
2400
2200

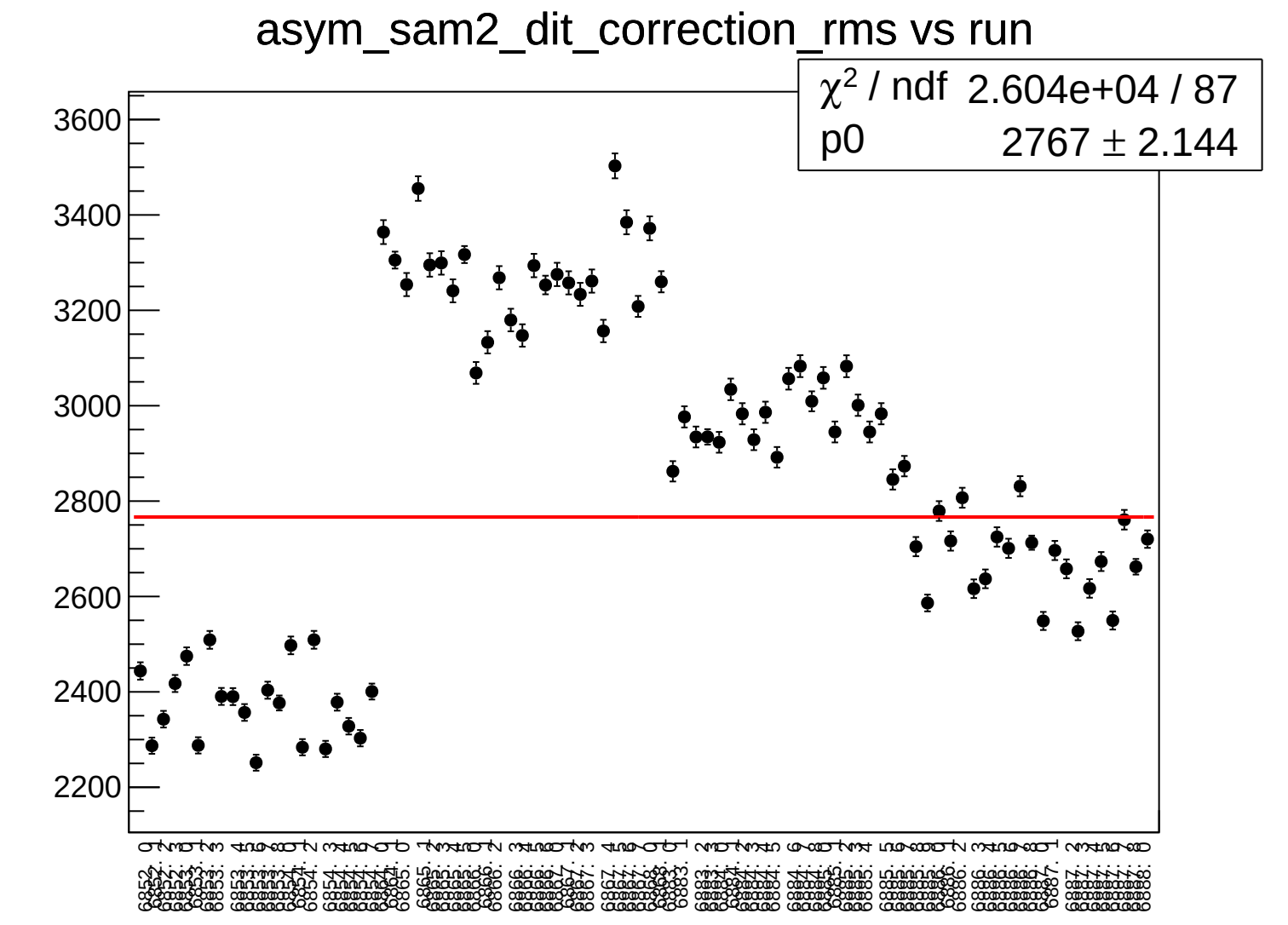

dit_asym_sam2_mean vs run
χ² / ndf 64.12 / 87
p0 −535.1 ± 341.2
pull
Entries 88
Mean 22.58
Std Dev 26.59

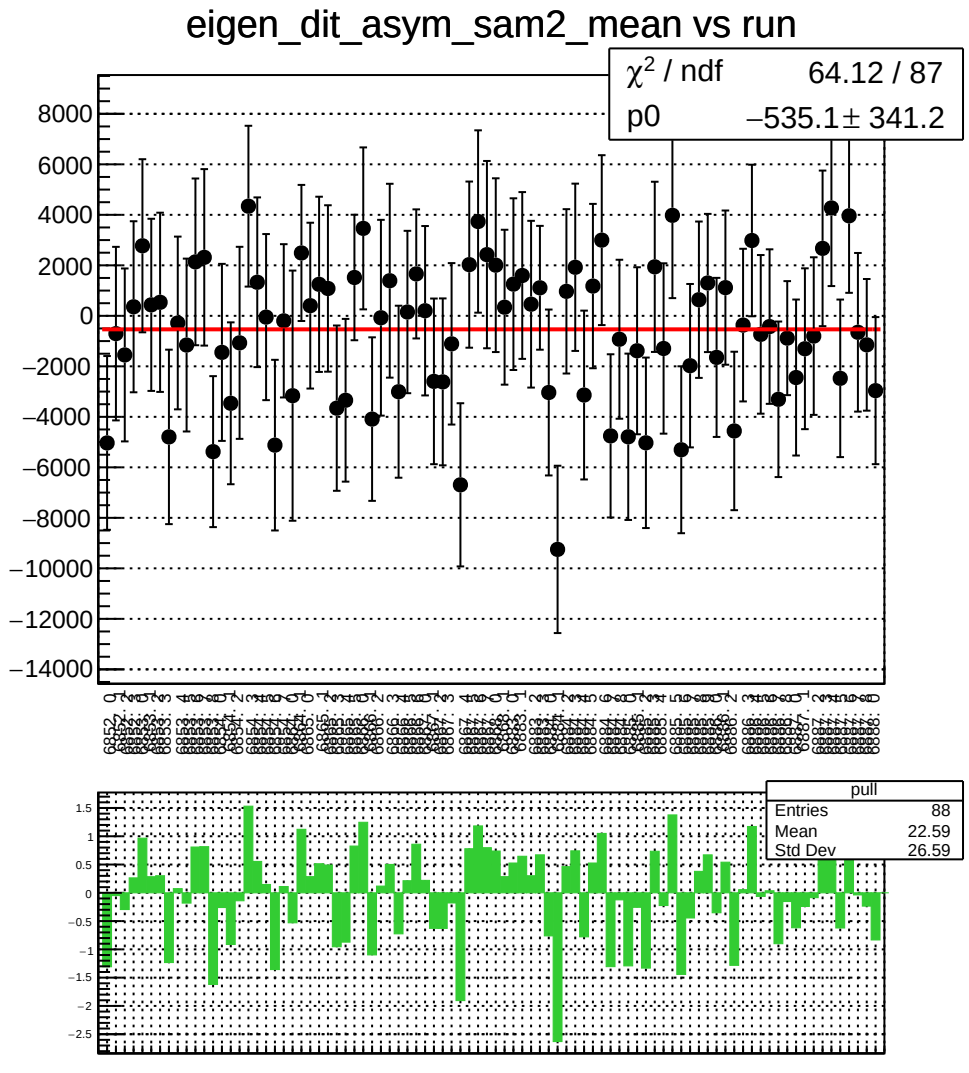

pull1D
Entries 88
Mean −0.0101
Std Dev 0.8535

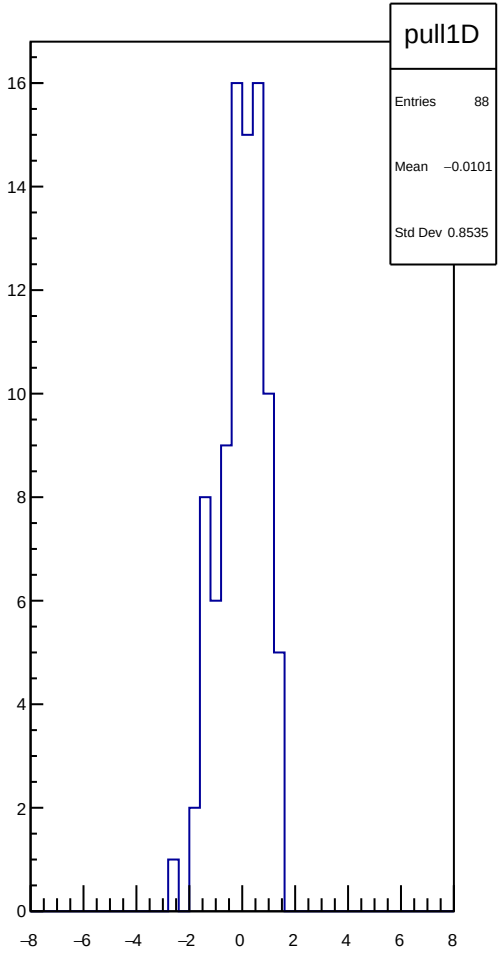

dit_asym_sam2_rms vs run
χ² / ndf 7156 / 87
p0 313.1 ± 0.2413
480
460
440
420
400
380
360
340
320
300
280

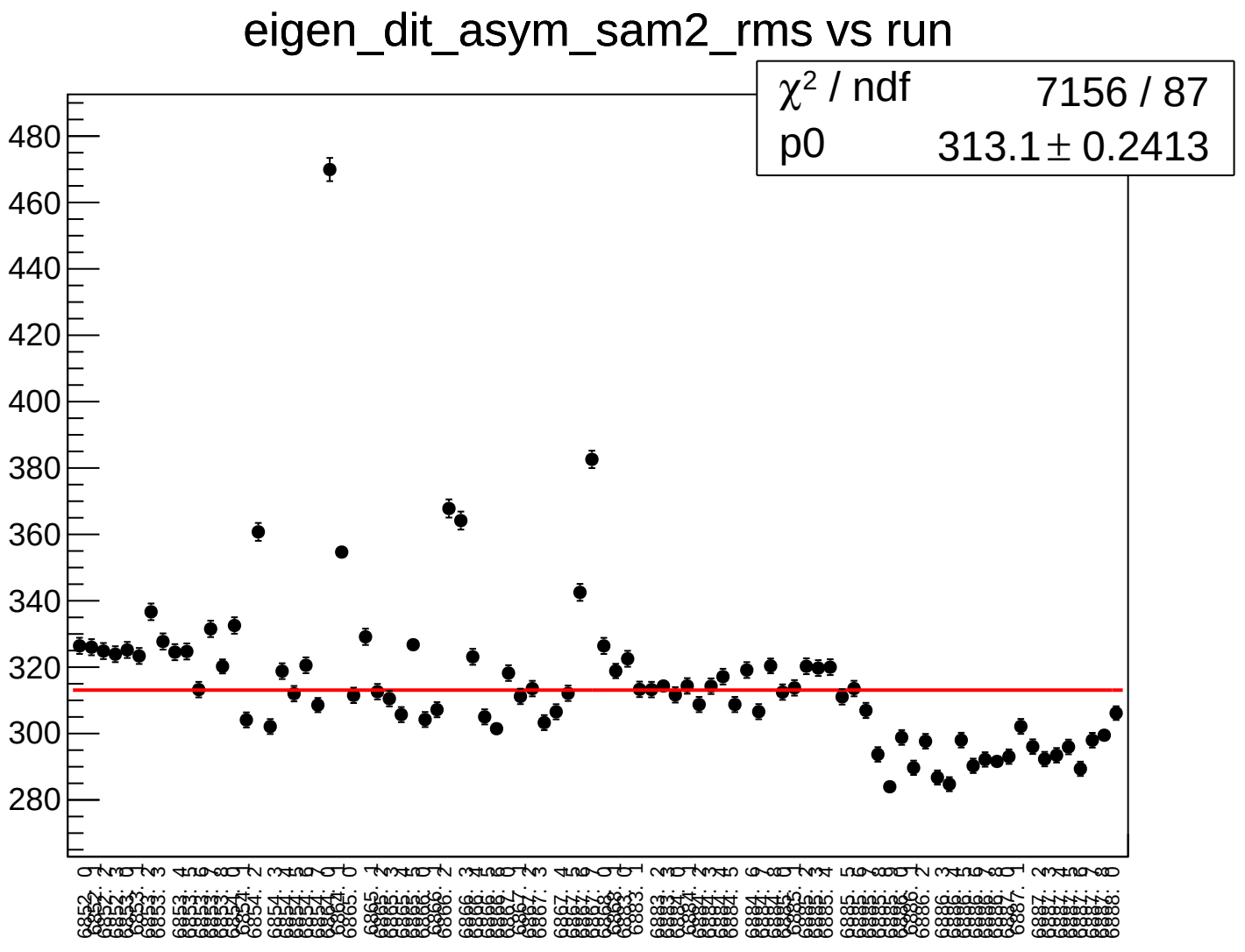

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 69.45 / 87
p0 −6040 ± 3032
80
60
40
20
0
−20
−40
−60
−80
−100
pull
Entries 88
Mean 430
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

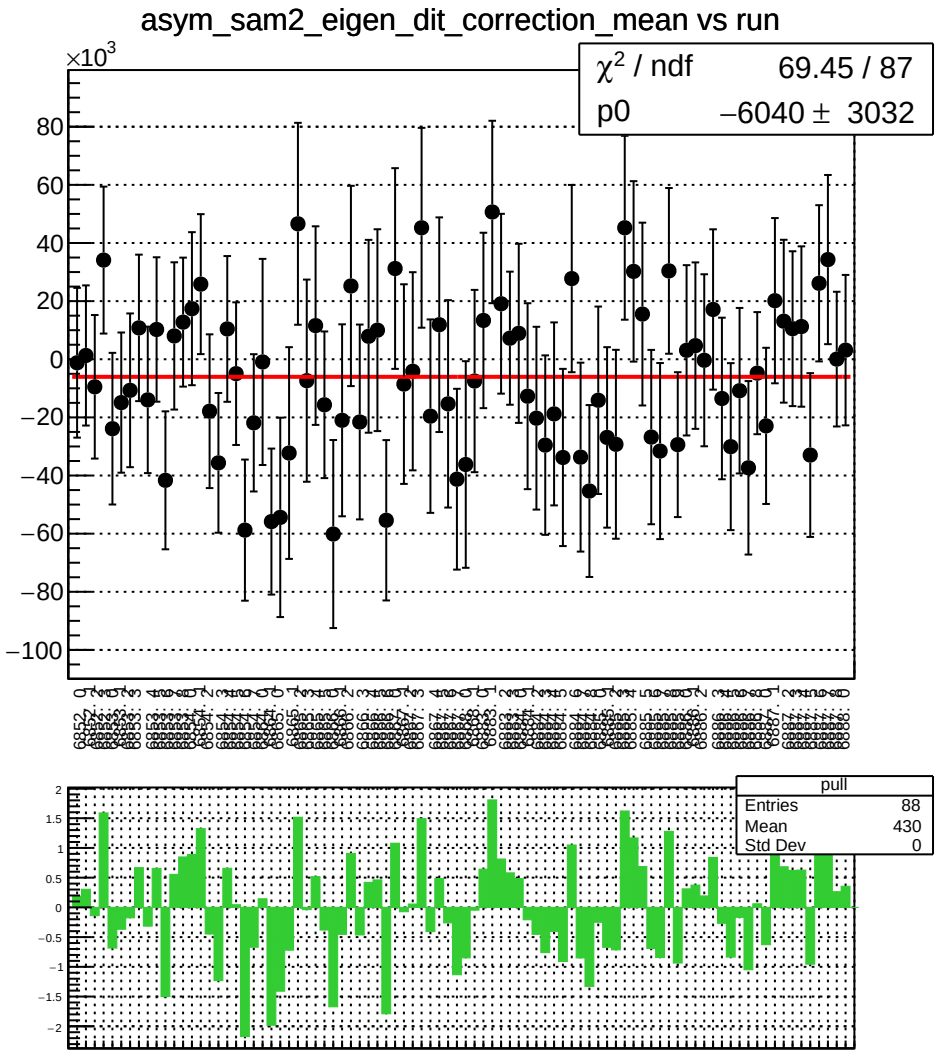

pull1D
Entries 88
Mean 0.005239
Std Dev 0.8883
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

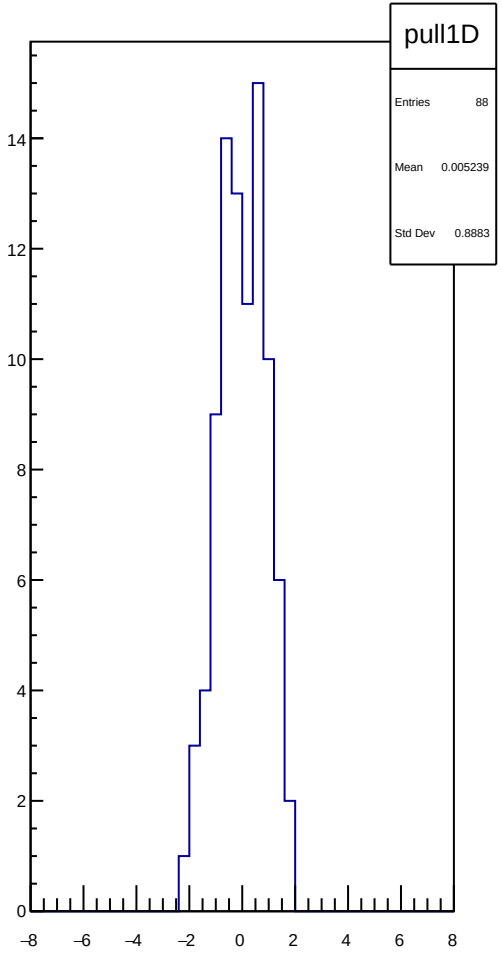

asym_sam2_dit_correction_rms vs run
χ² / ndf 2.604e+04 / 87
p0 2767 ± 2.144
3600
3400
3200
3000
2800
2600
2400
2200

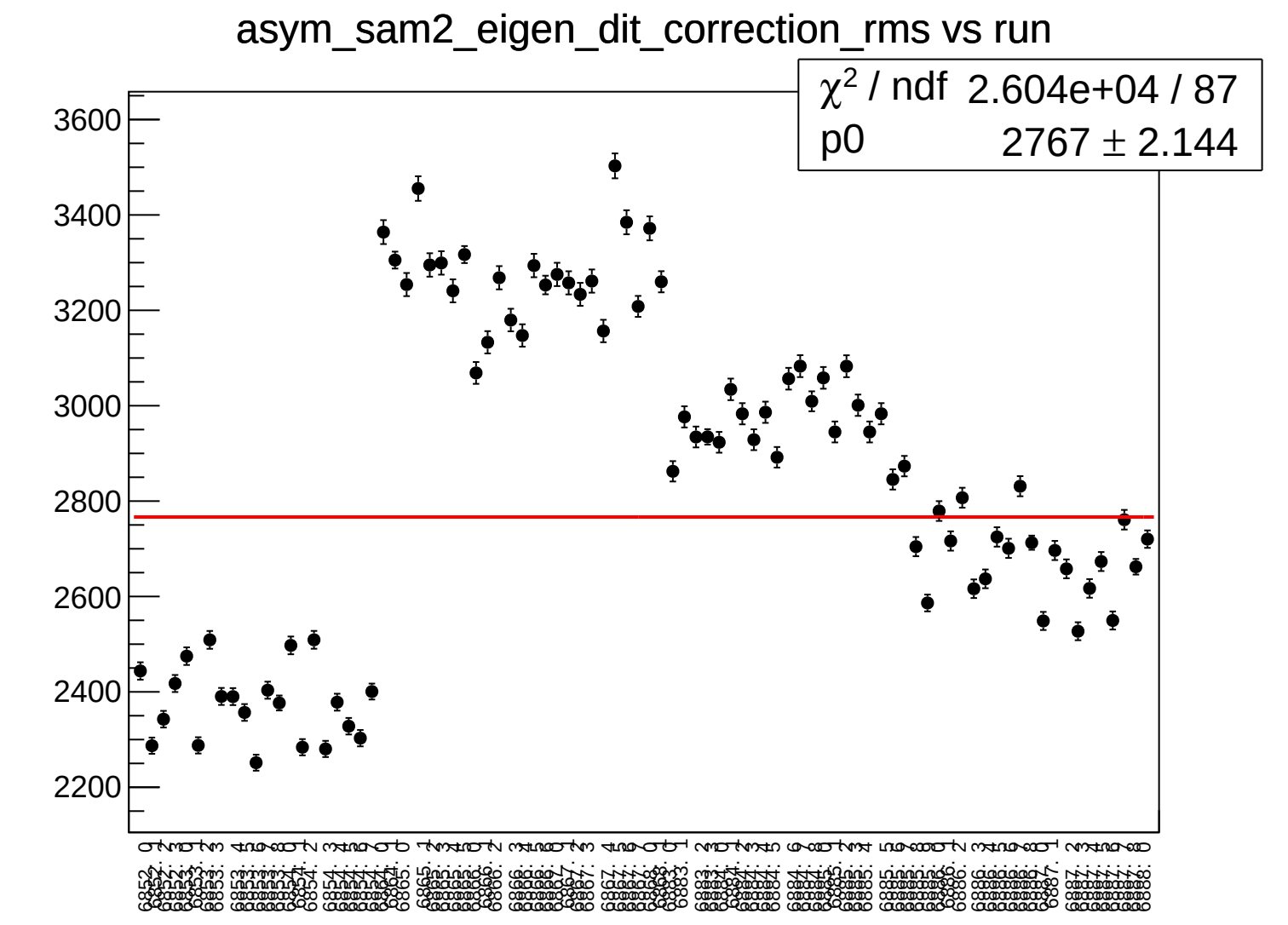

eigen_dit_asym_sam2_mean vs run
χ² / ndf 64.12 / 87
p0 −535.1 ± 341.2
pull
Entries 88
Mean 22.59
Std Dev 26.59

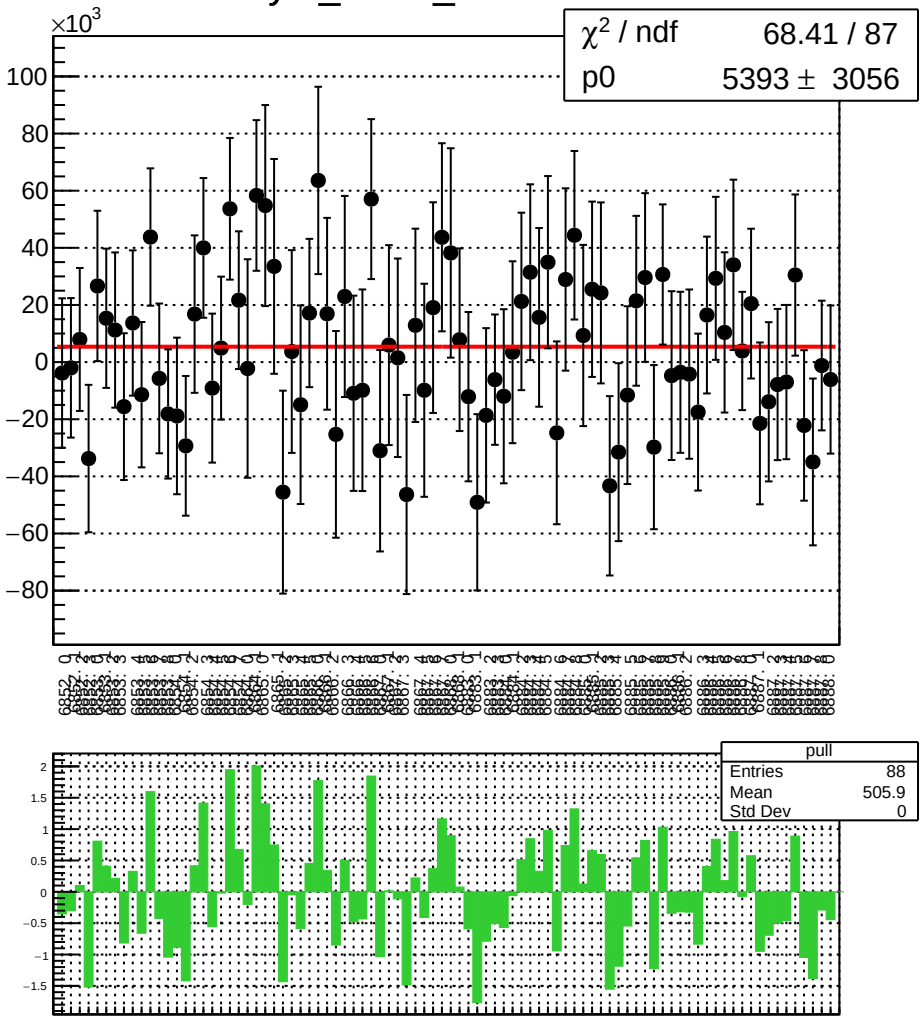

pull1D
Entries 88
Mean −0.0101
Std Dev 0.8535

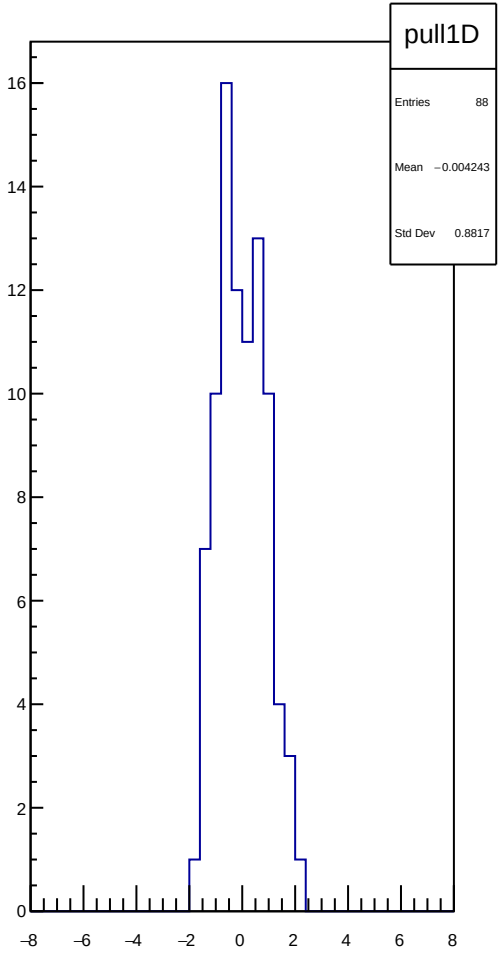

eigen_dit_asym_sam2_rms vs run
χ² / ndf 7156 / 87
p0 313.1 ± 0.2413
480
460
440
420
400
380
360
340
320
300
280

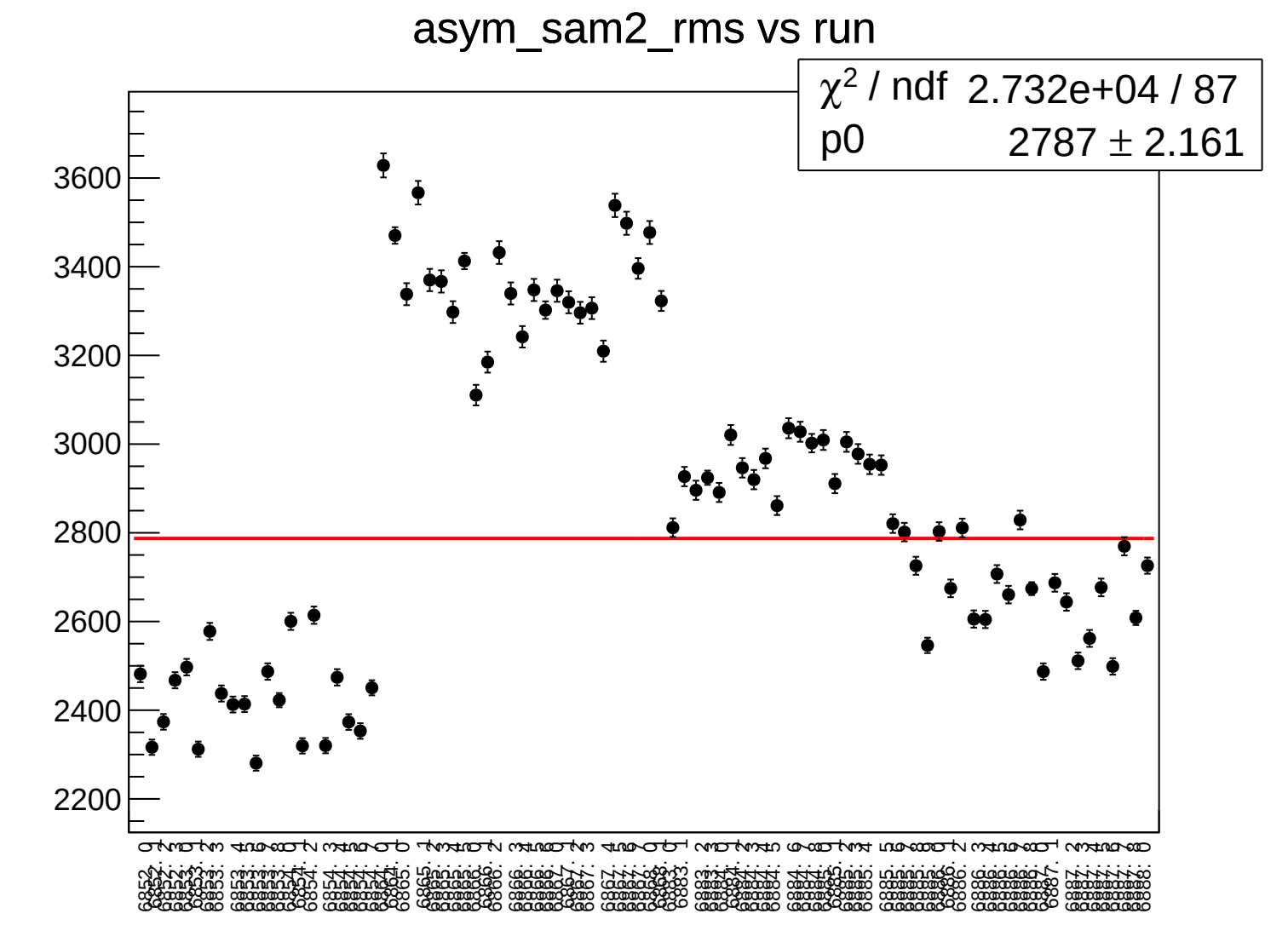

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.45 / 87
p0 −6040 ± 3032
pull
Entries 88
Mean 430
Std Dev 0

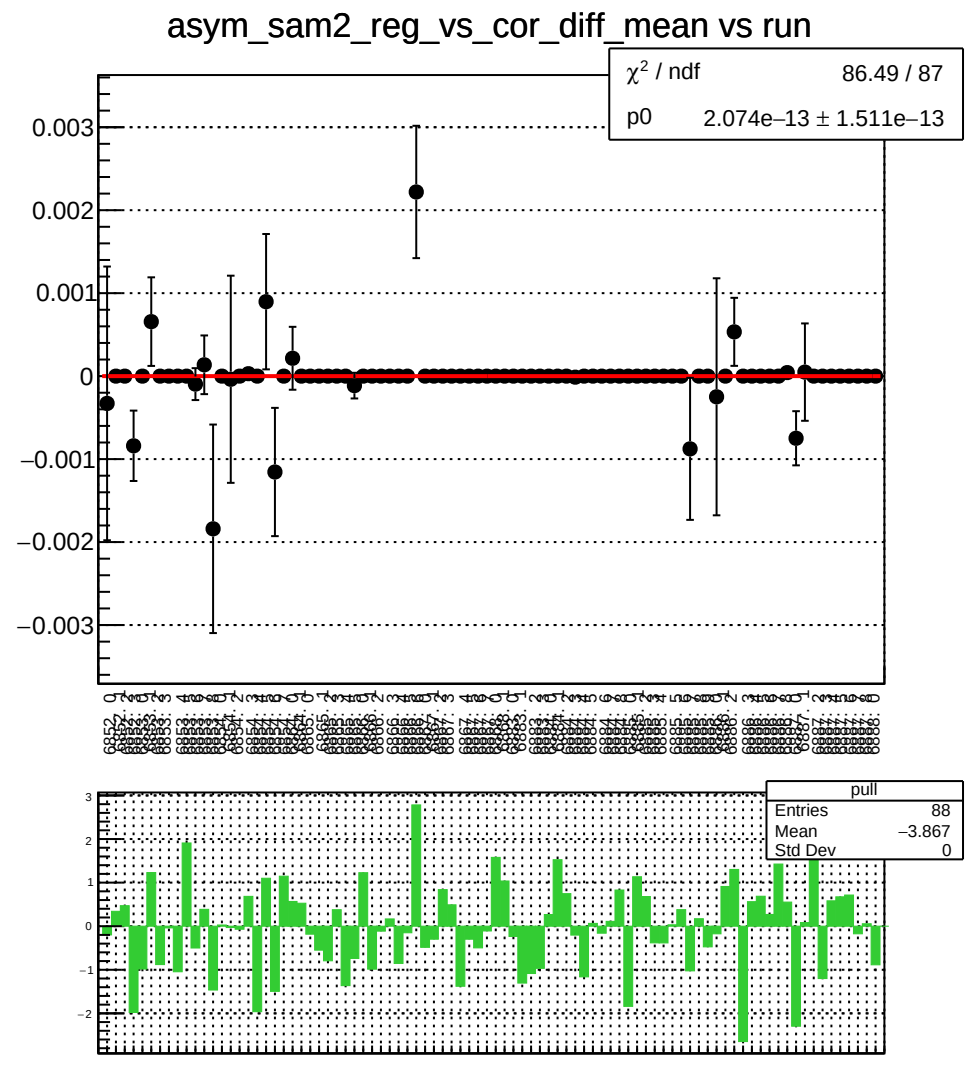

pull1D
Entries 88
Mean 0.005239
Std Dev 0.8883

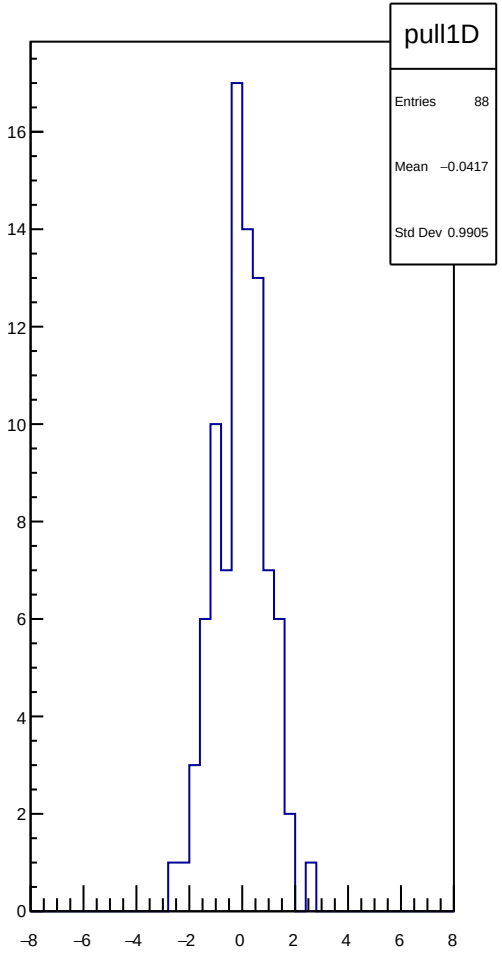

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 2.604e+04 / 87
p0 2767 ± 2.144
3600
3400
3200
3000
2800
2600
2400
2200

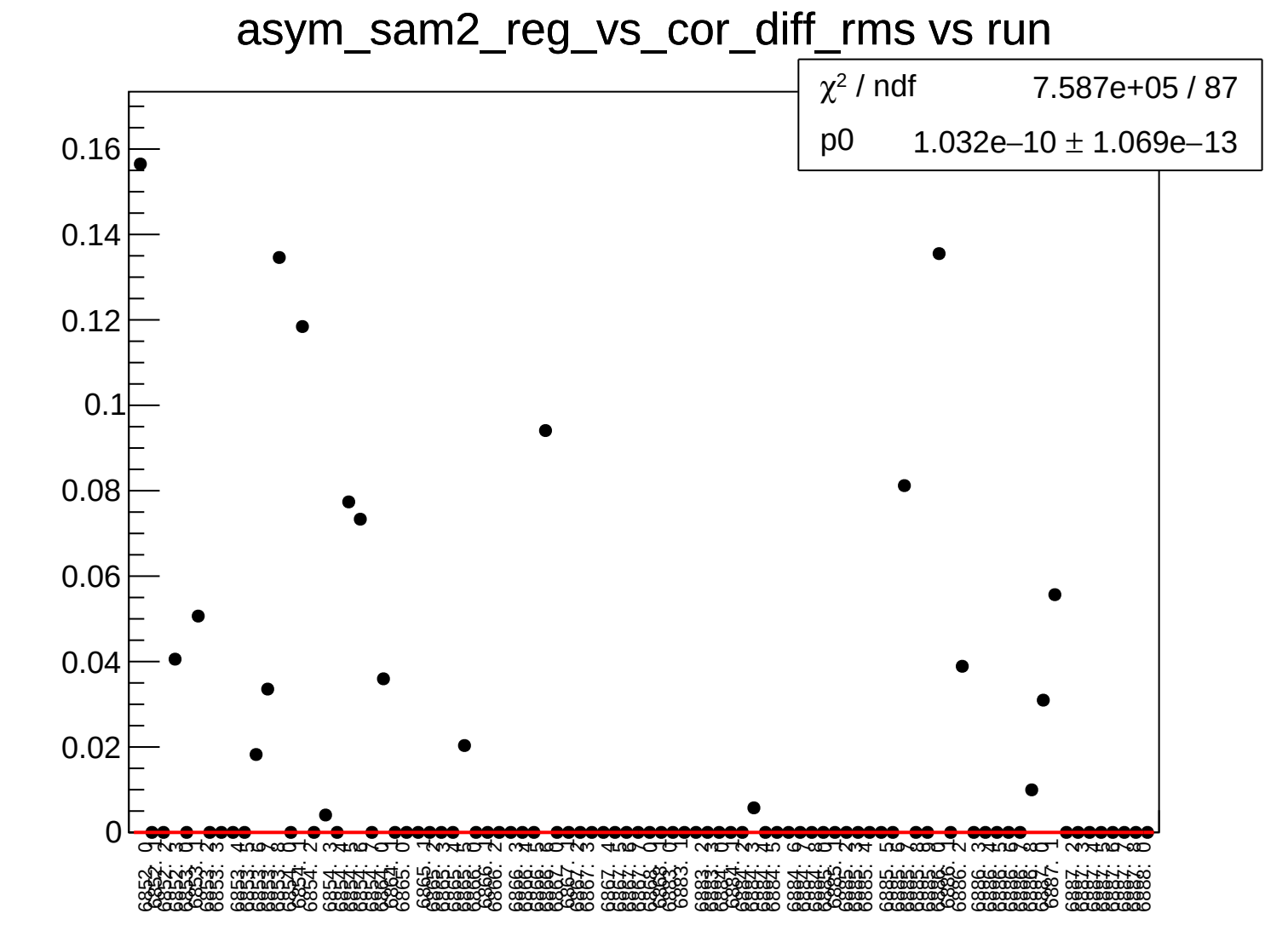

asym_sam2_mean vs run
χ^2 / ndf 68.41 / 87
p0 5393 ± 3056
×10^3
pull
Entries 88
Mean 505.9
Std Dev 0

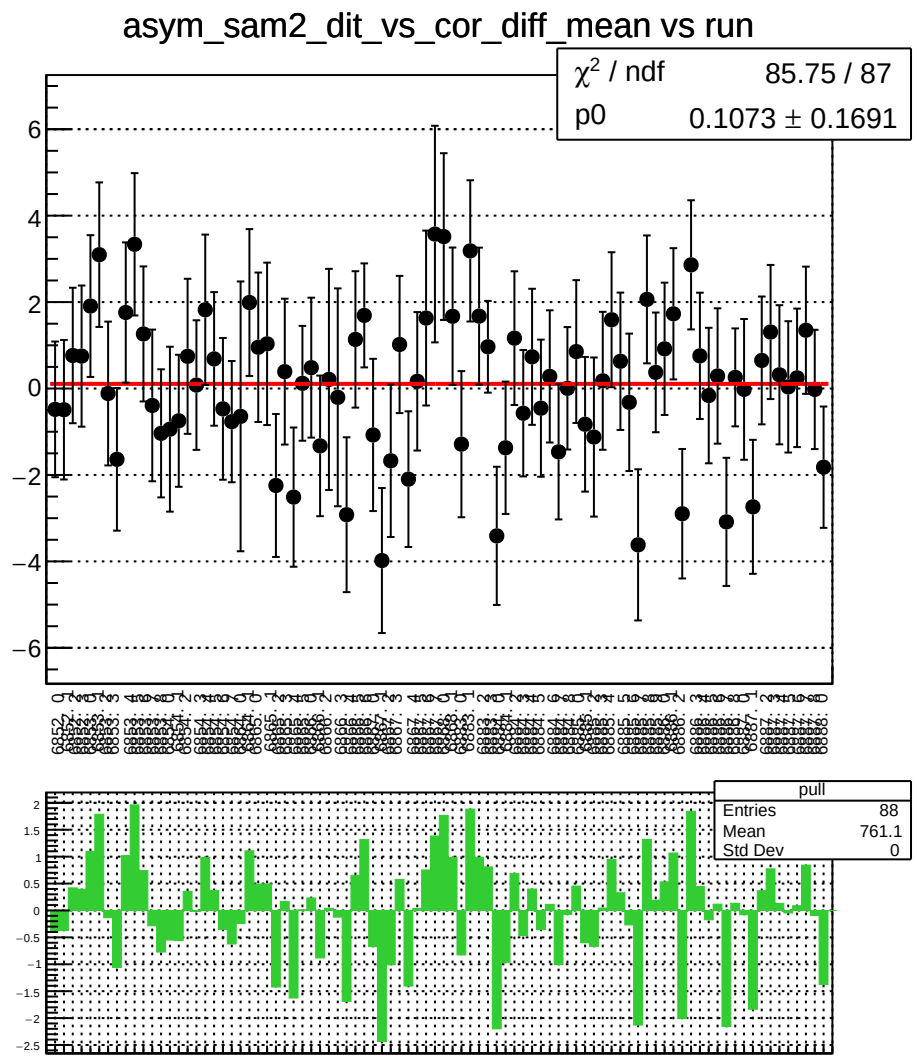

pull1D
Entries 88
Mean −0.004243
Std Dev 0.8817

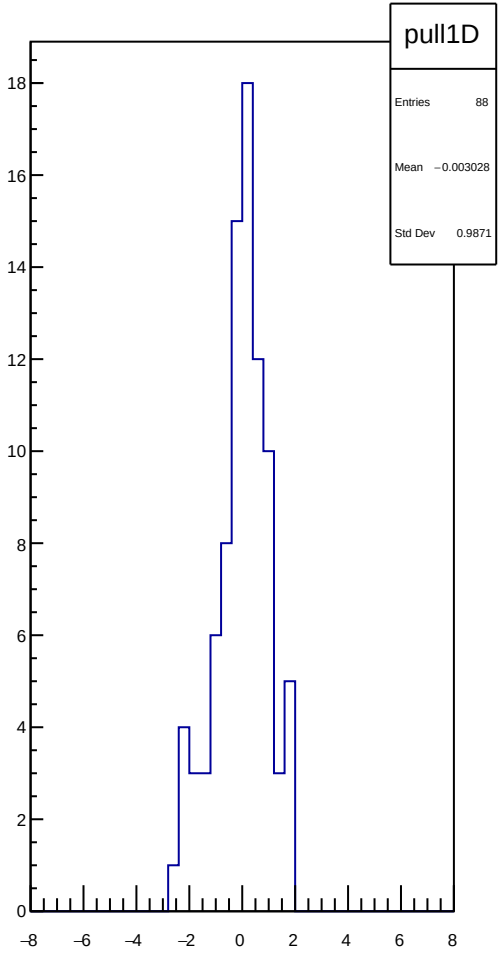

asym_sam2_rms vs run
χ² / ndf 2.732e+04 / 87
p0 2787 ± 2.161
3600
3400
3200
3000
2800
2600
2400
2200

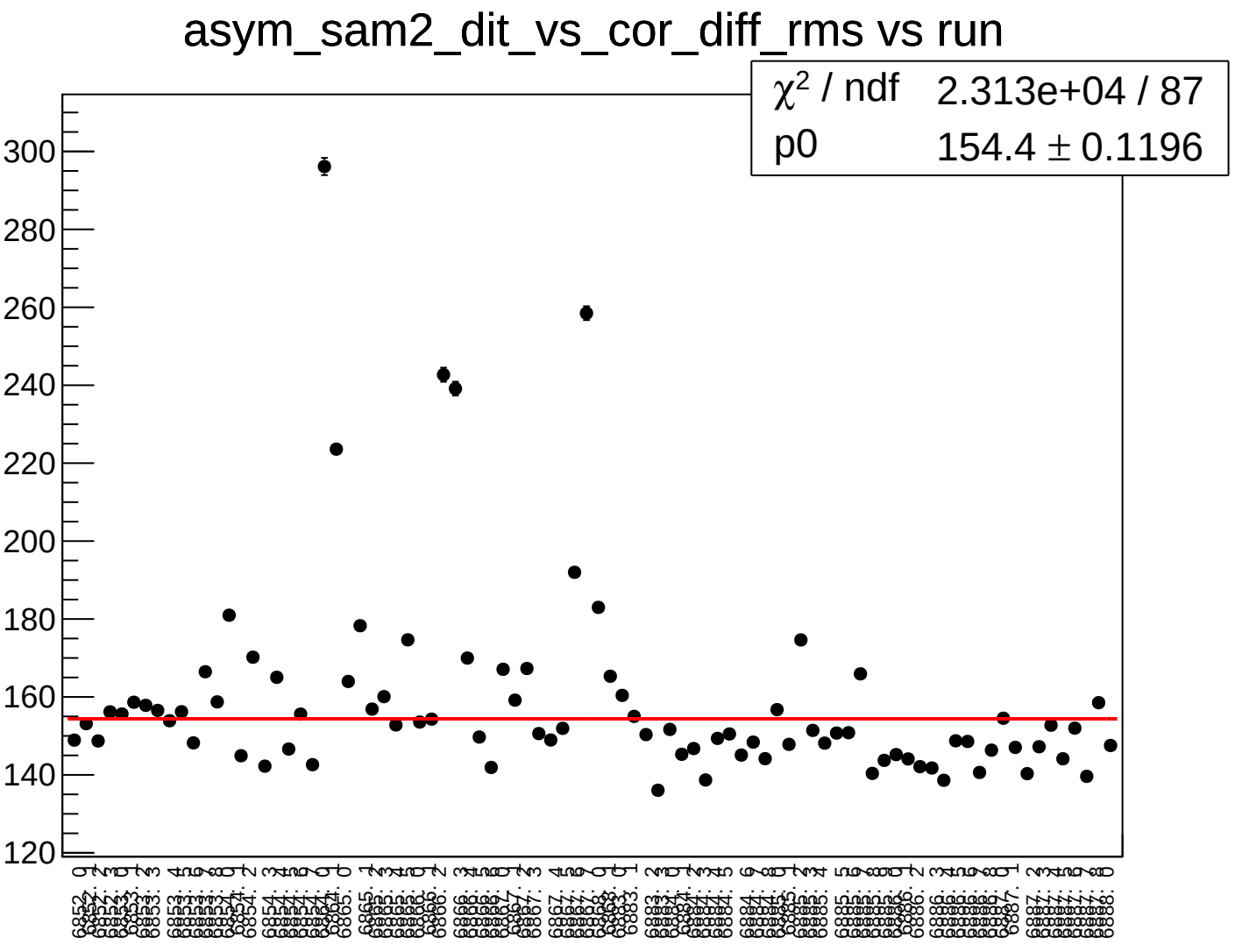

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 86.49 / 87
p0 2.074e−13 ± 1.511e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 88
Mean −3.867
Std Dev 0

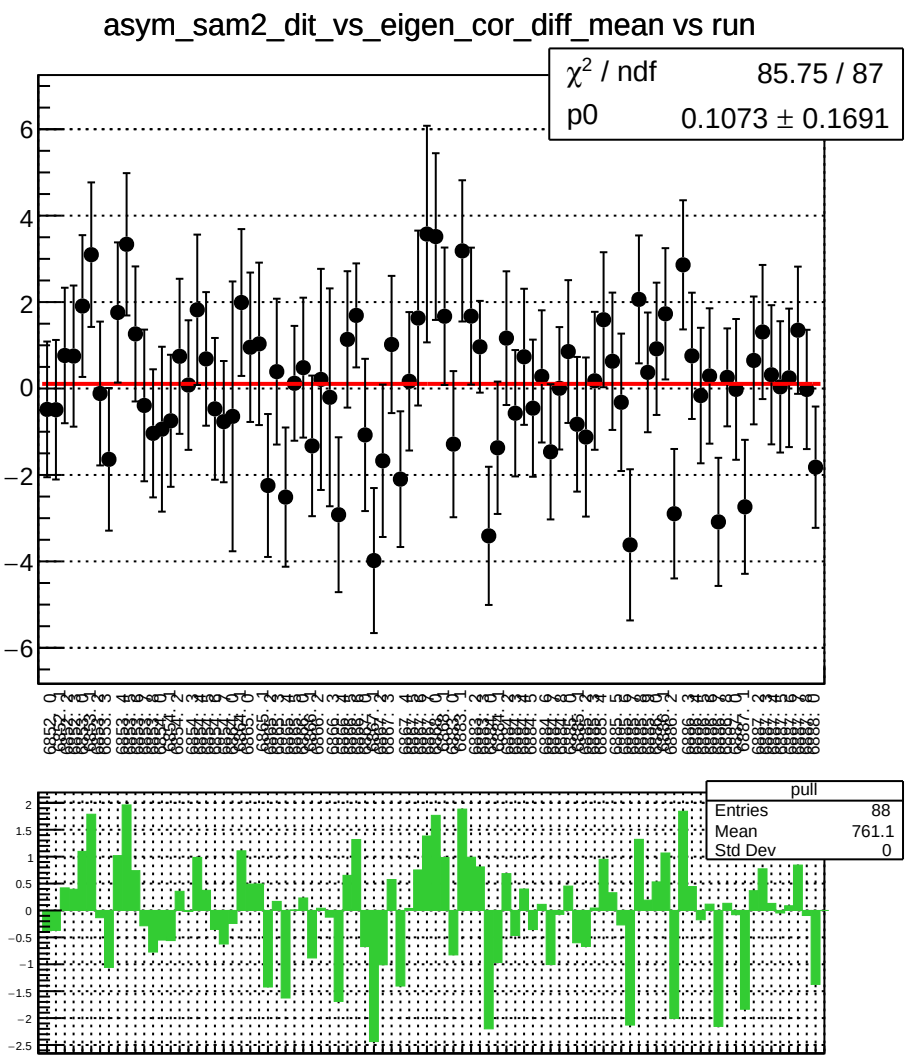

pull1D
Entries 88
Mean −0.0417
Std Dev 0.9905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

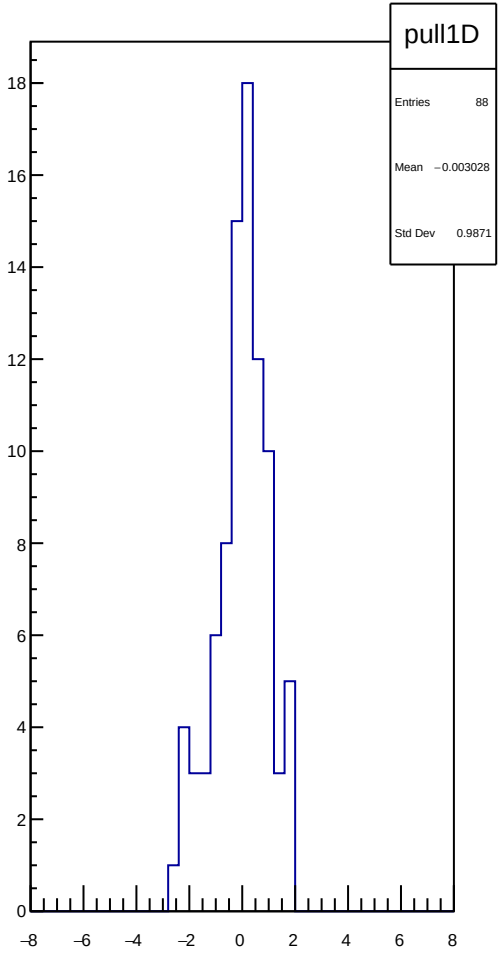

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 7.587e+05 / 87
p0 1.032e−10 ± 1.069e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

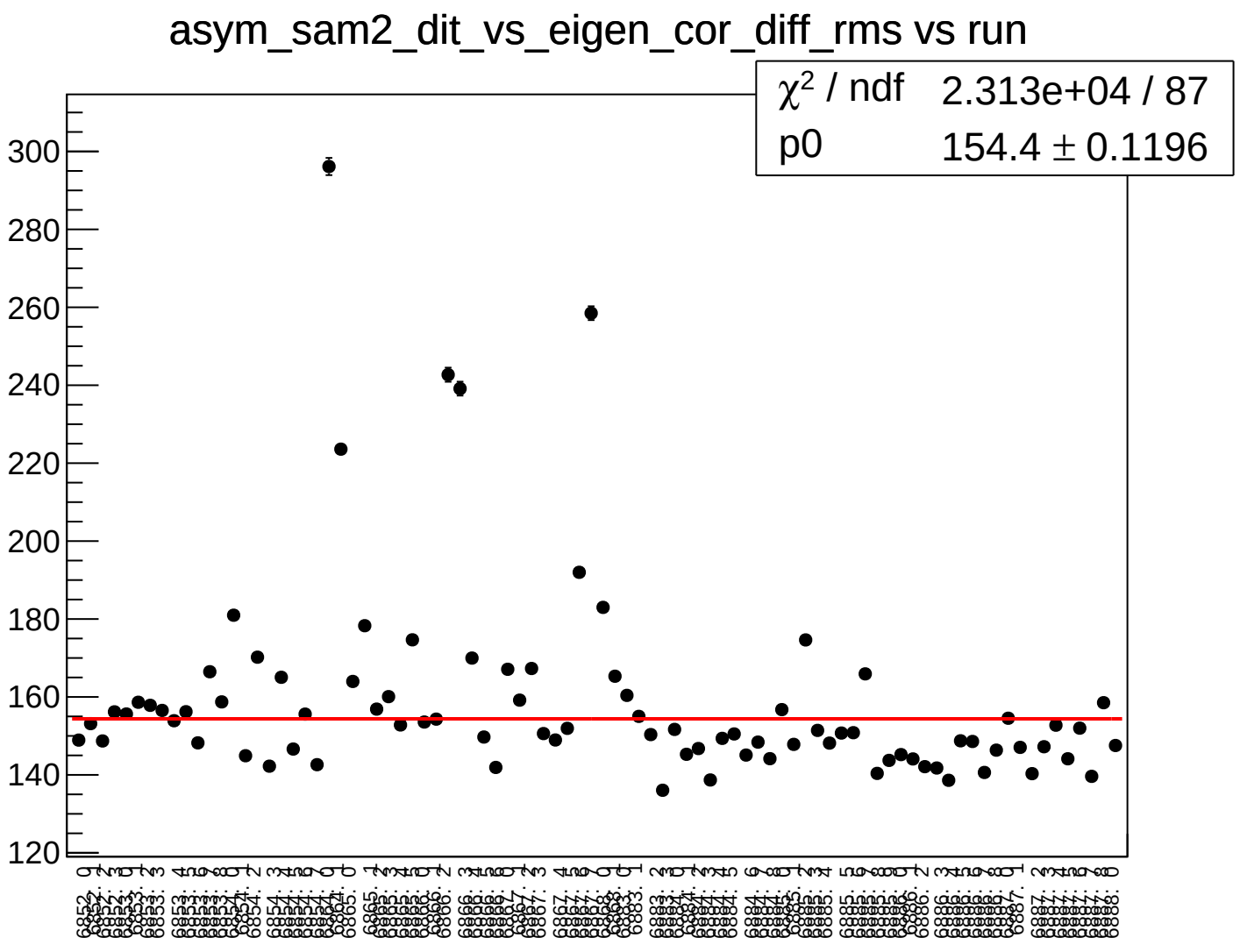

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 85.75 / 87
p0 0.1073 ± 0.1691
pull
Entries 88
Mean 761.1
Std Dev 0

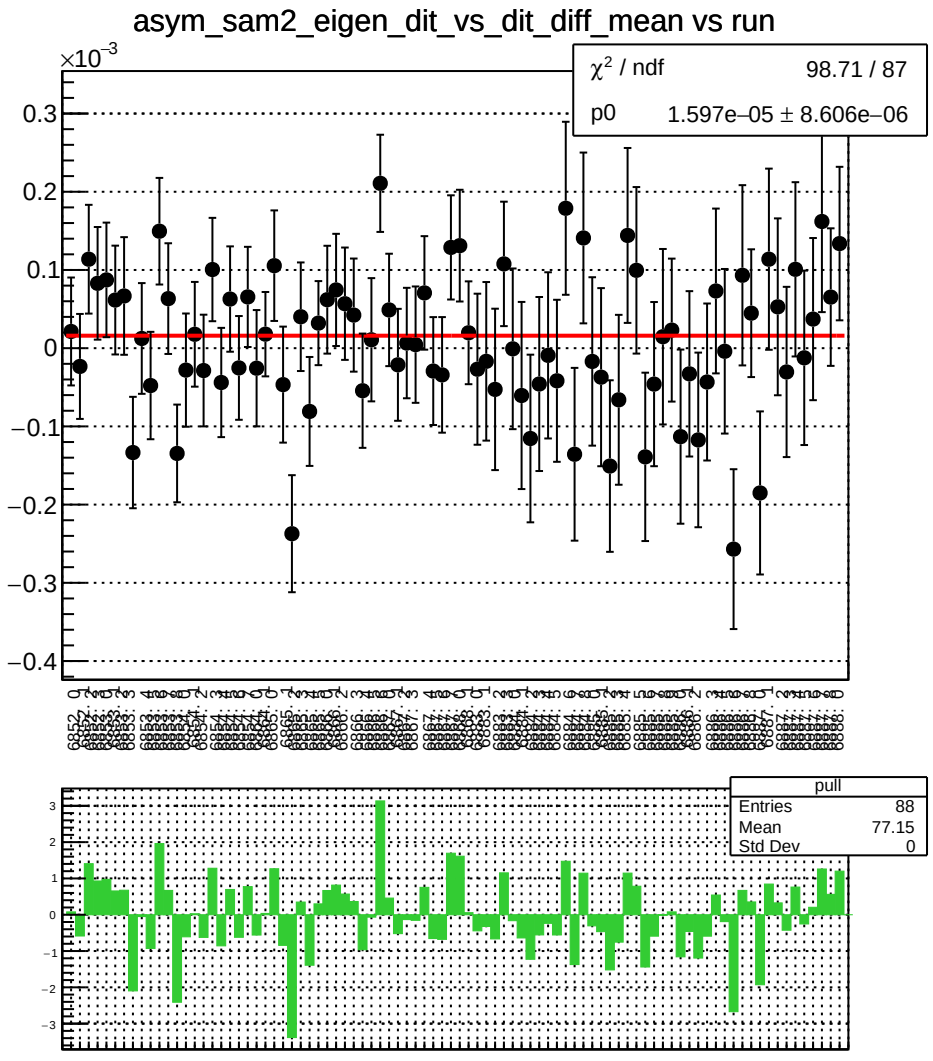

pull1D
Entries 88
Mean −0.003028
Std Dev 0.9871

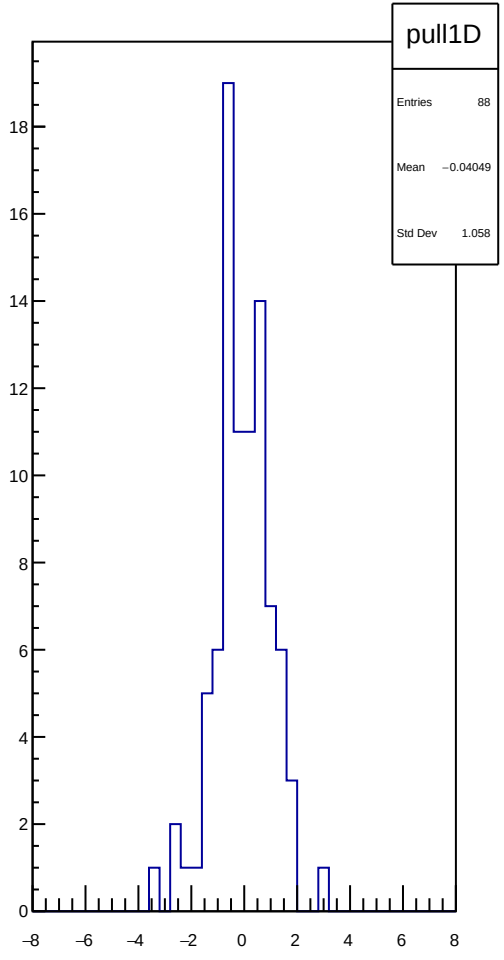

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.313e+04 / 87
p0 154.4 ± 0.1196
300
280
260
240
220
200
180
160
140
120

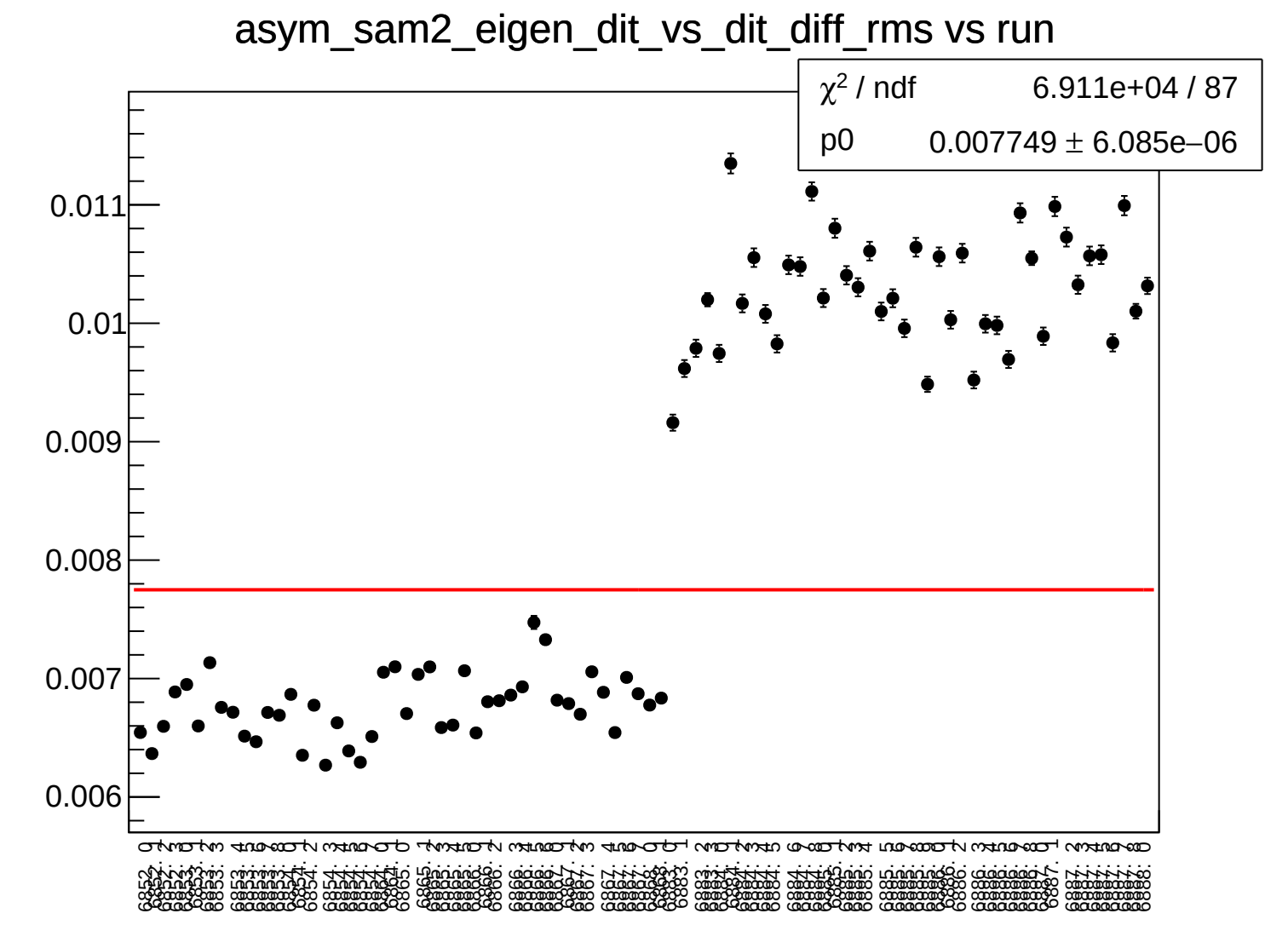

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.75 / 87
p0 0.1073 ± 0.1691
pull
Entries 88
Mean 761.1
Std Dev 0

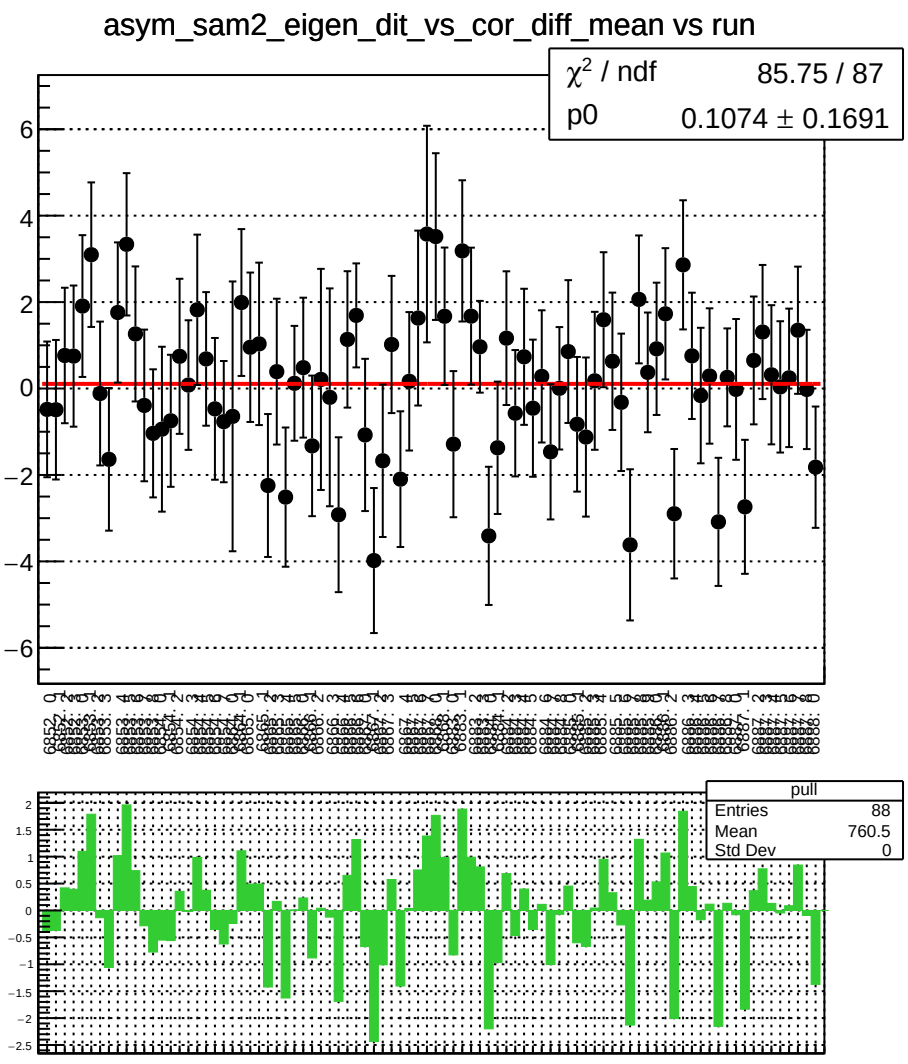

pull1D
Entries 88
Mean −0.003028
Std Dev 0.9871

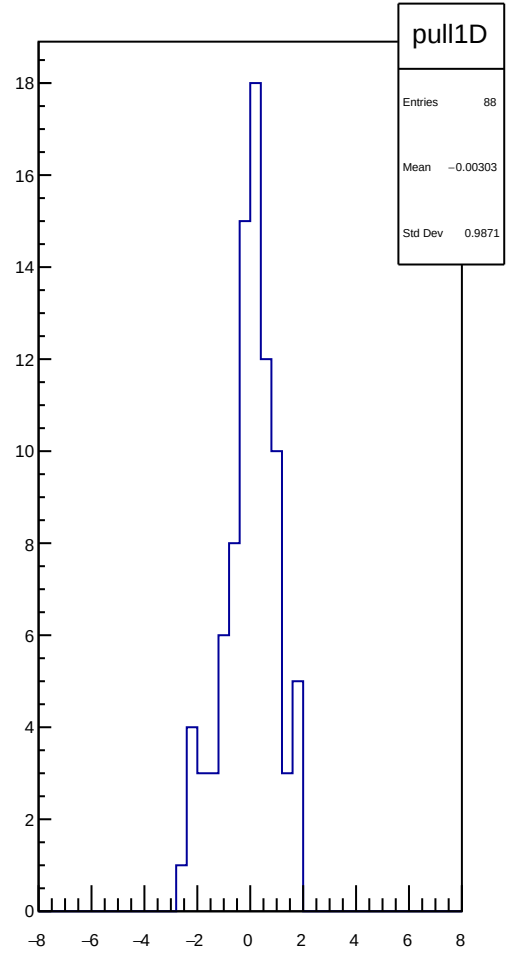

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.313e+04 / 87
p0 154.4 ± 0.1196
300
280
260
240
220
200
180
160
140
120

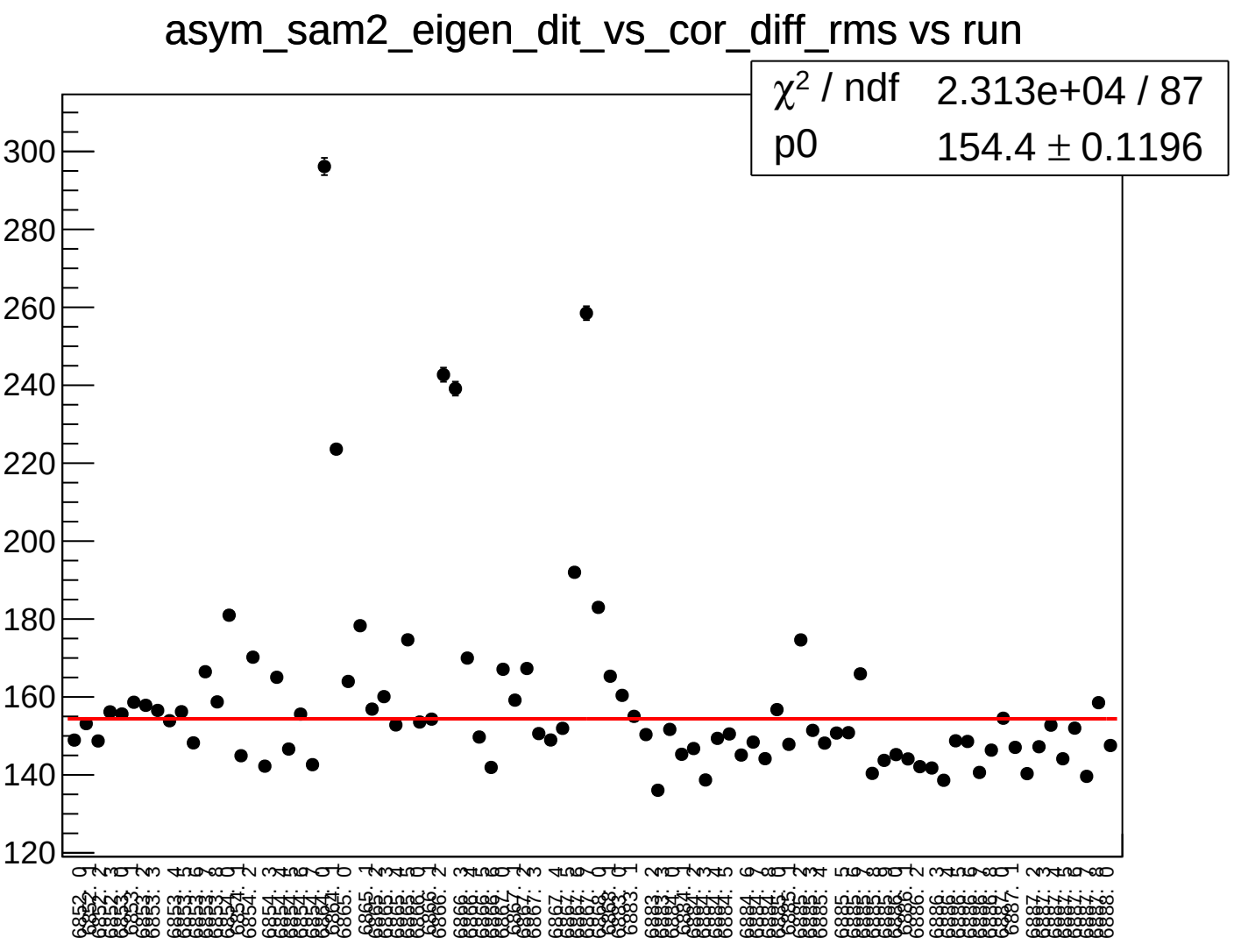

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.71 / 87
p0 1.597e−05 ± 8.606e−06
pull
Entries 88
Mean 77.15
Std Dev 0

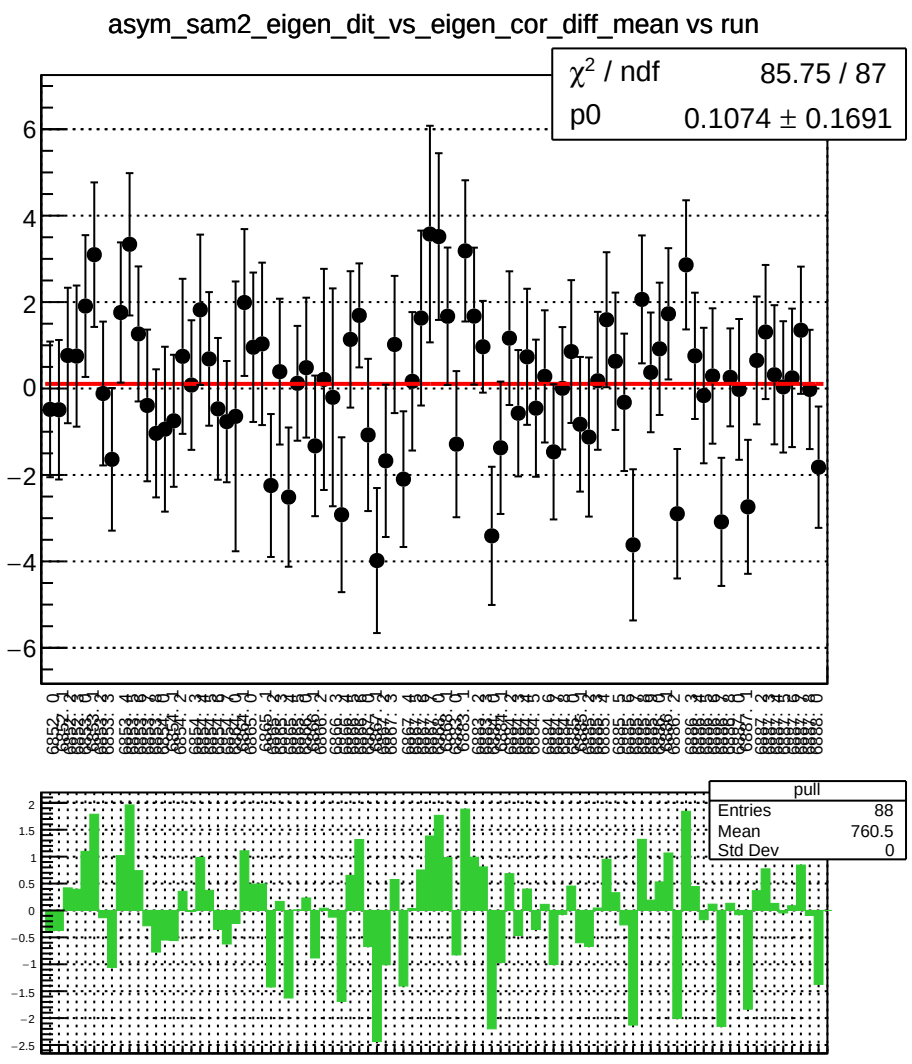

pull1D
Entries 88
Mean −0.04049
Std Dev 1.058

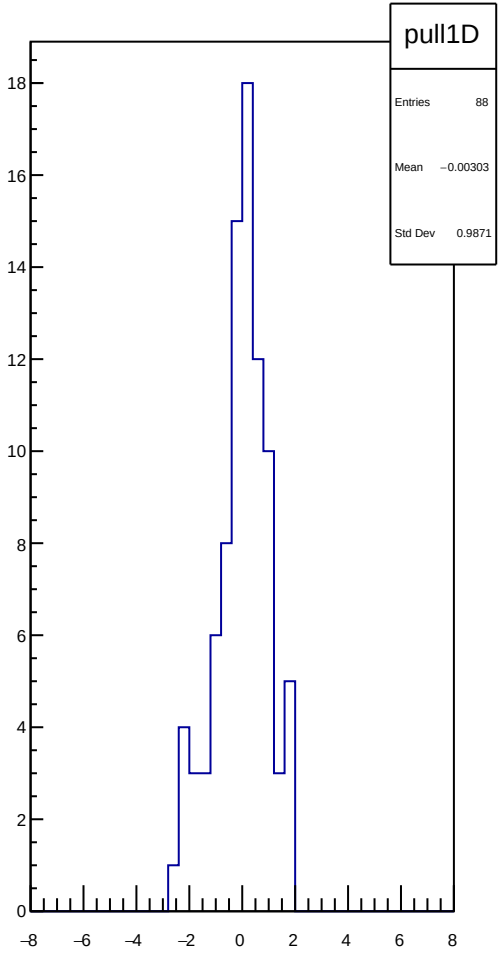

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.911e+04 / 87
p0 0.007749 ± 6.085e−06
0.011
0.01
0.009
0.008
0.007
0.006

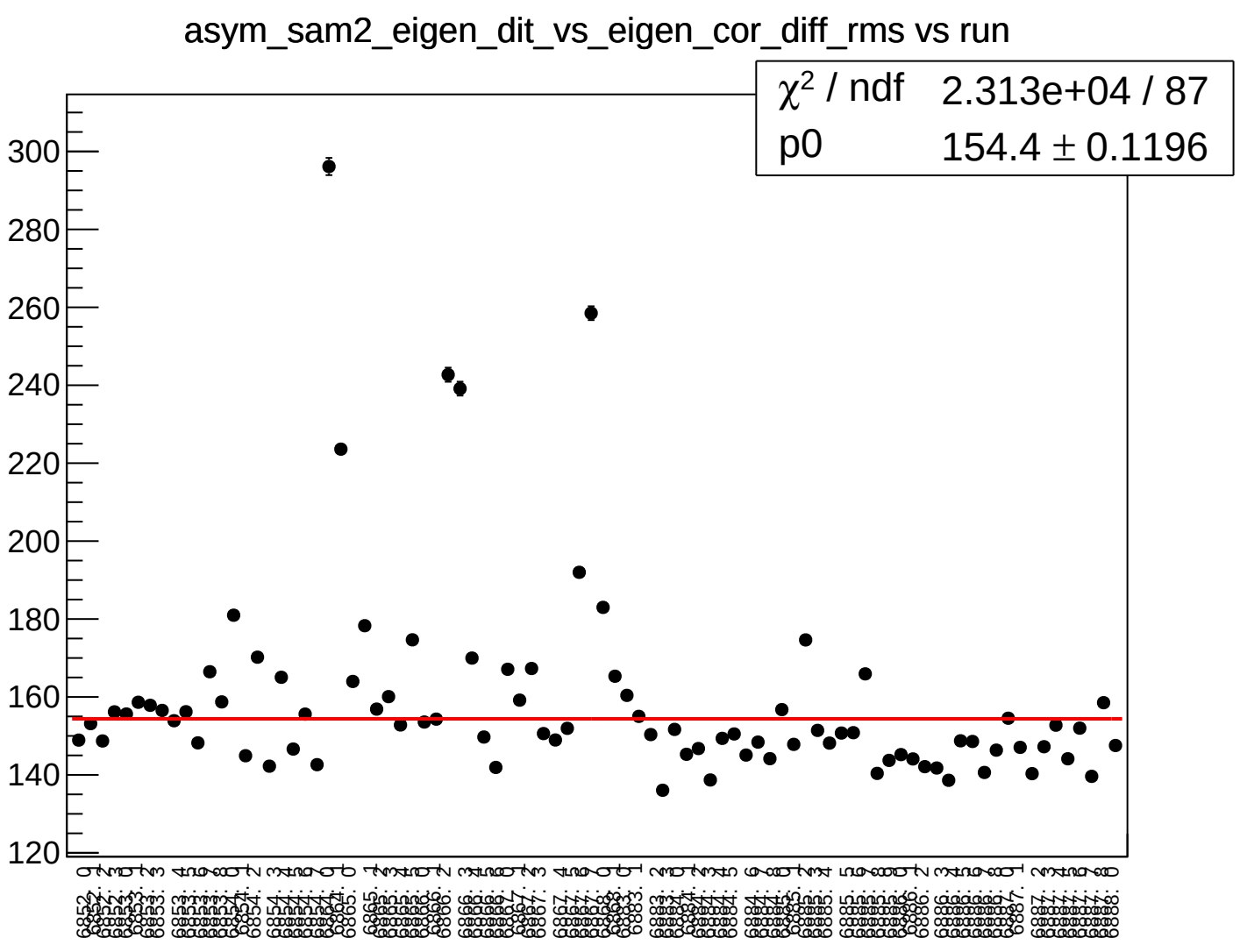

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.75 / 87
p0 0.1074 ± 0.1691
pull
Entries 88
Mean 760.5
Std Dev 0

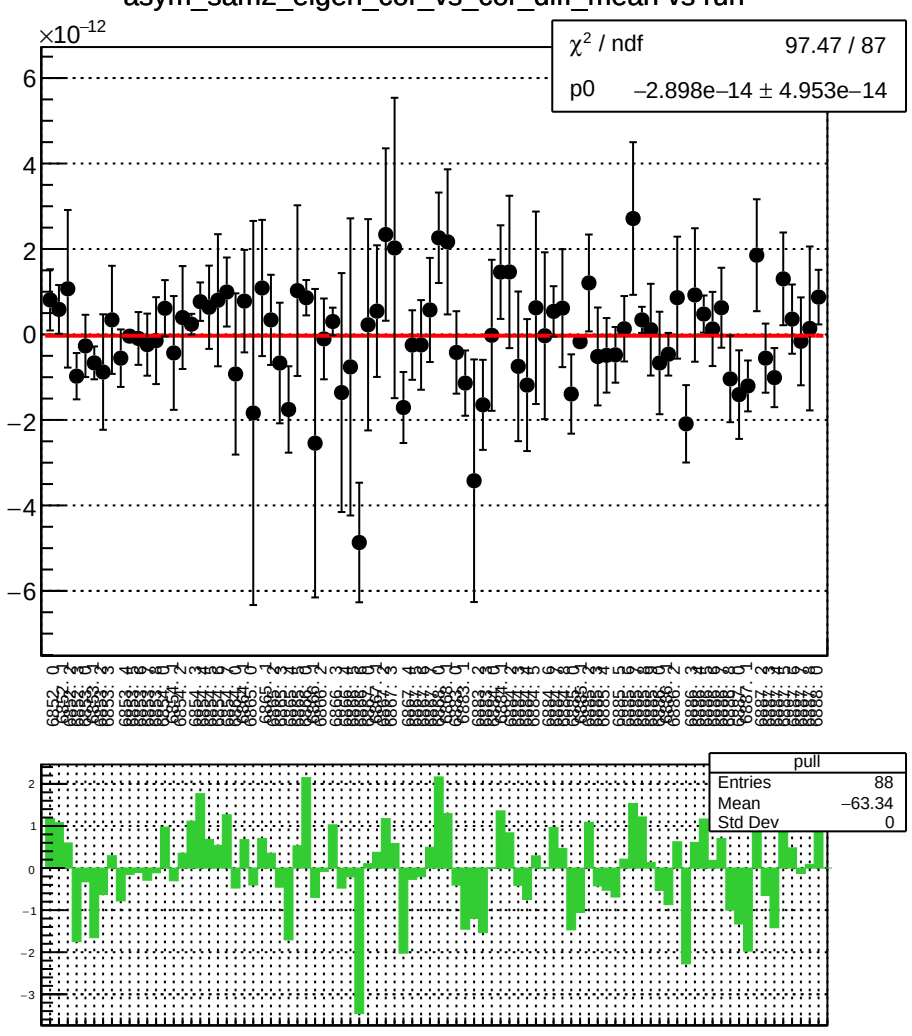

pull1D
Entries 88
Mean −0.00303
Std Dev 0.9871

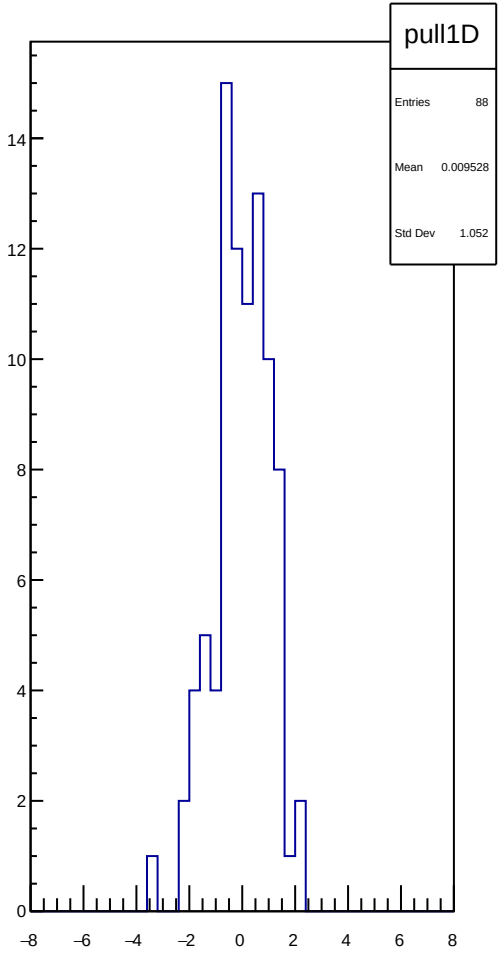

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.313e+04 / 87
p0 154.4 ± 0.1196
300
280
260
240
220
200
180
160
140
120

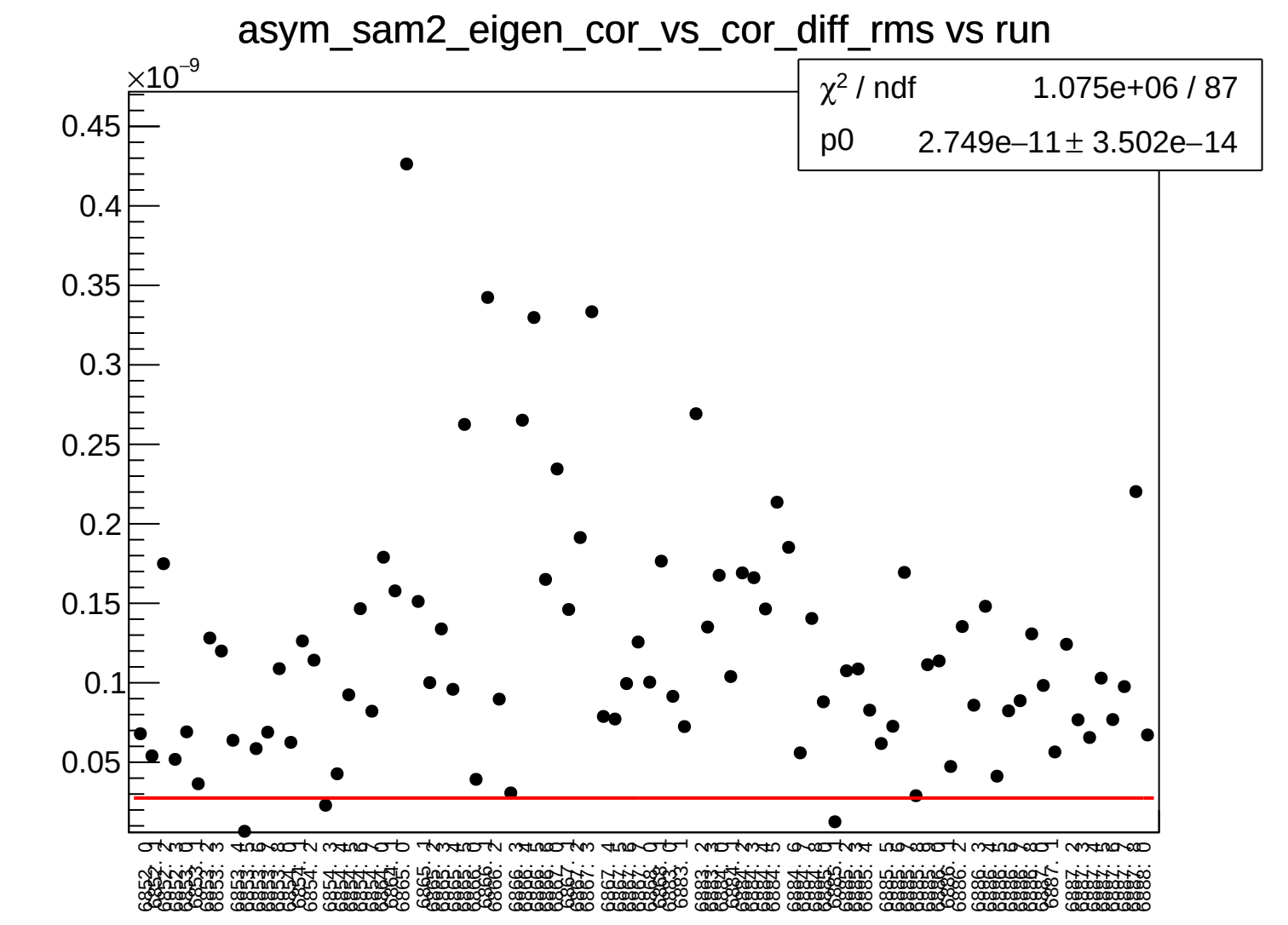

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.75 / 87
p0 0.1074 ± 0.1691
pull
Entries 88
Mean 760.5
Std Dev 0

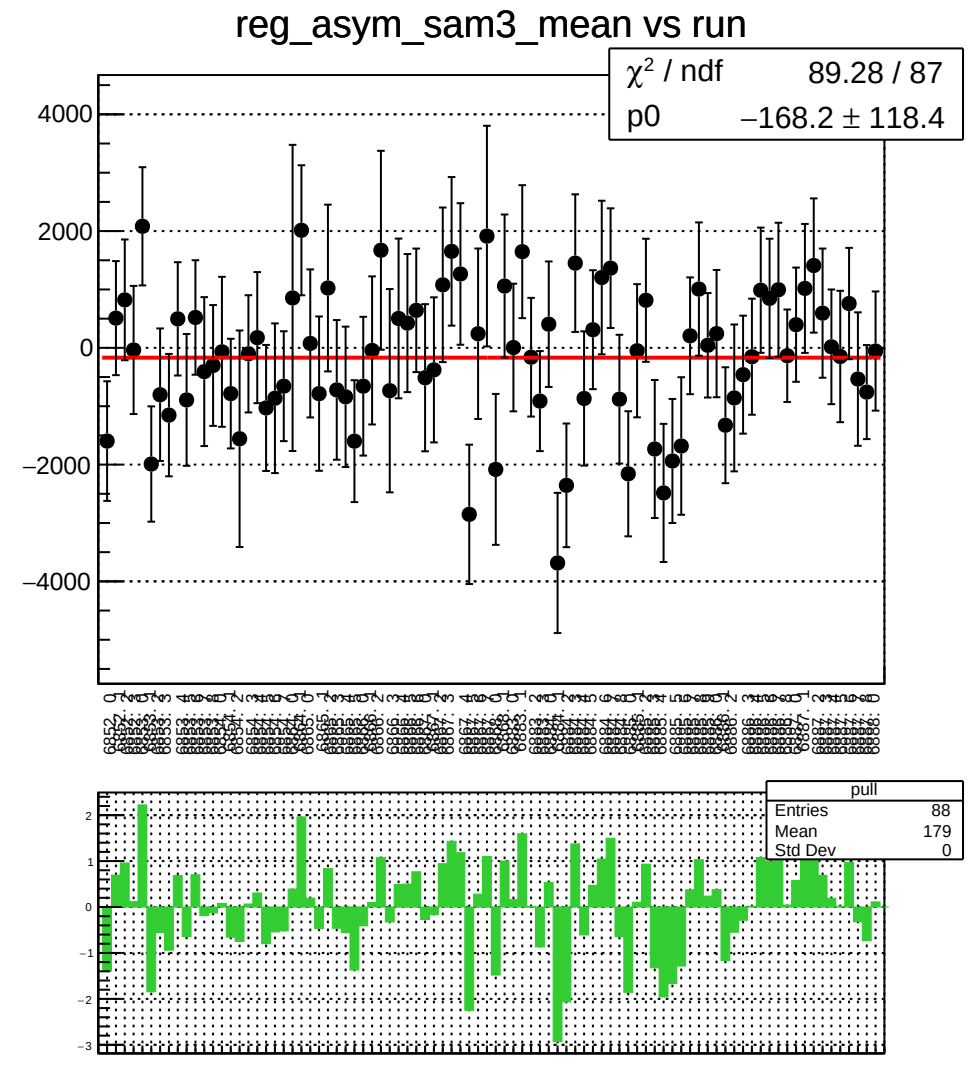

pull1D
Entries 88
Mean −0.00303
Std Dev 0.9871

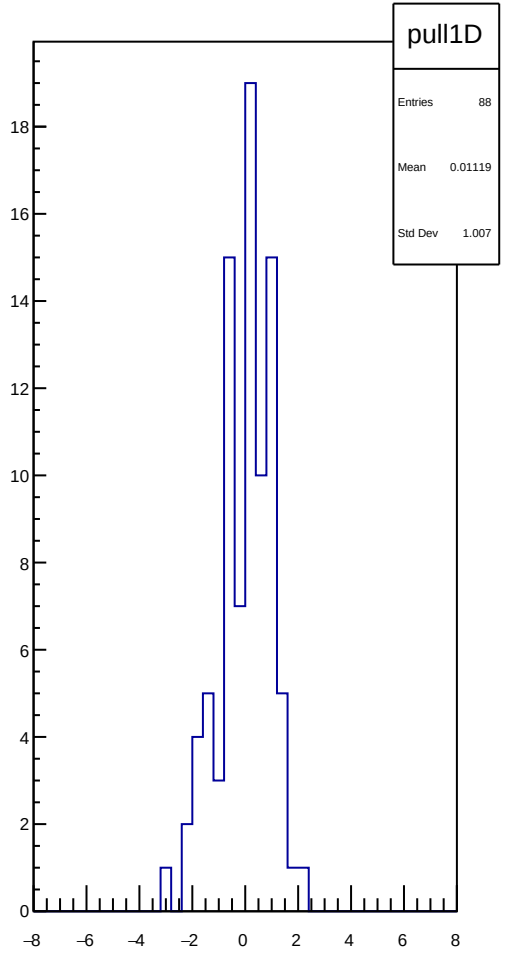

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.313e+04 / 87
p0 154.4 ± 0.1196
300
280
260
240
220
200
180
160
140
120

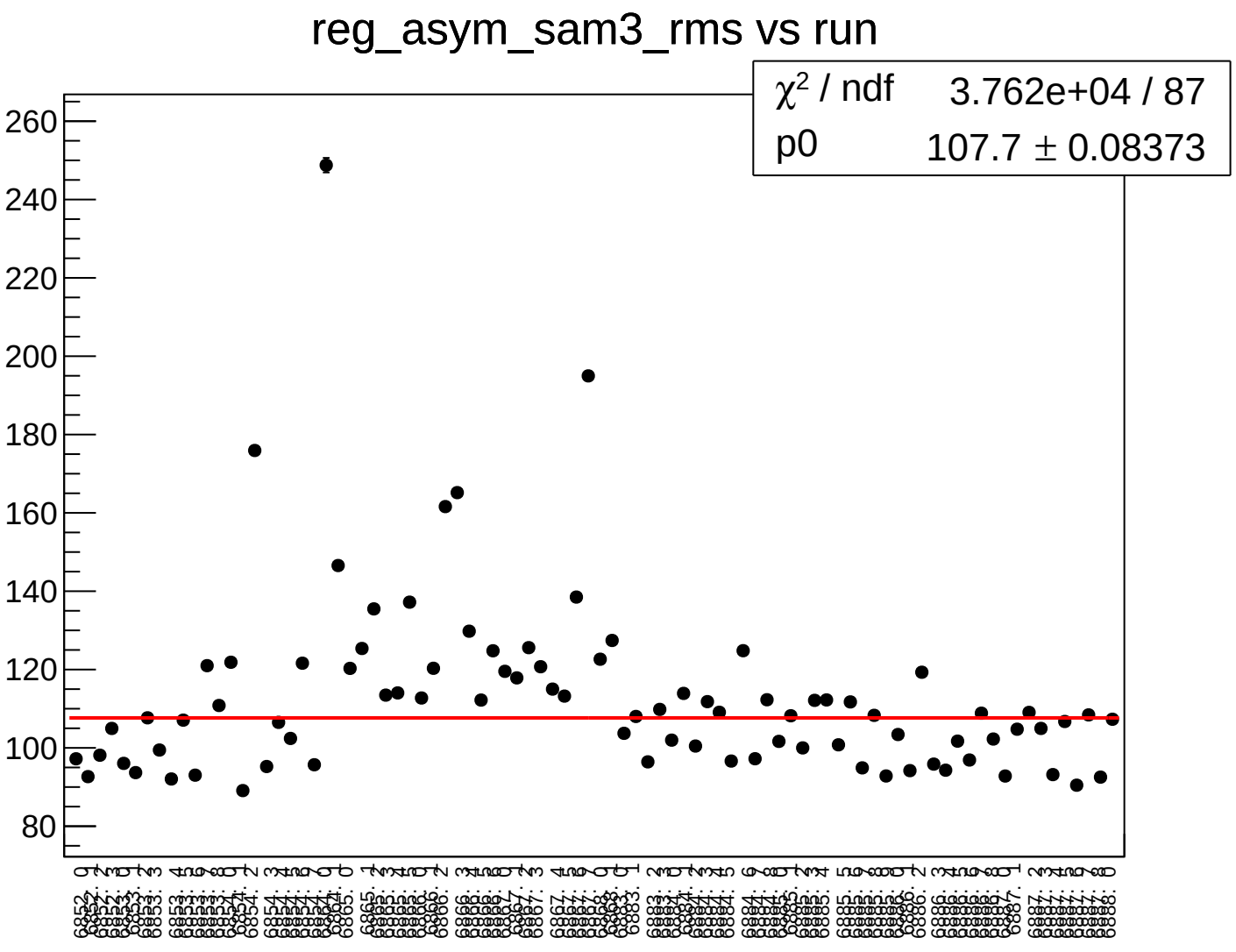

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.47 / 87
p0 −2.898e−14 ± 4.953e−14
pull
Entries 88
Mean −63.34
Std Dev 0

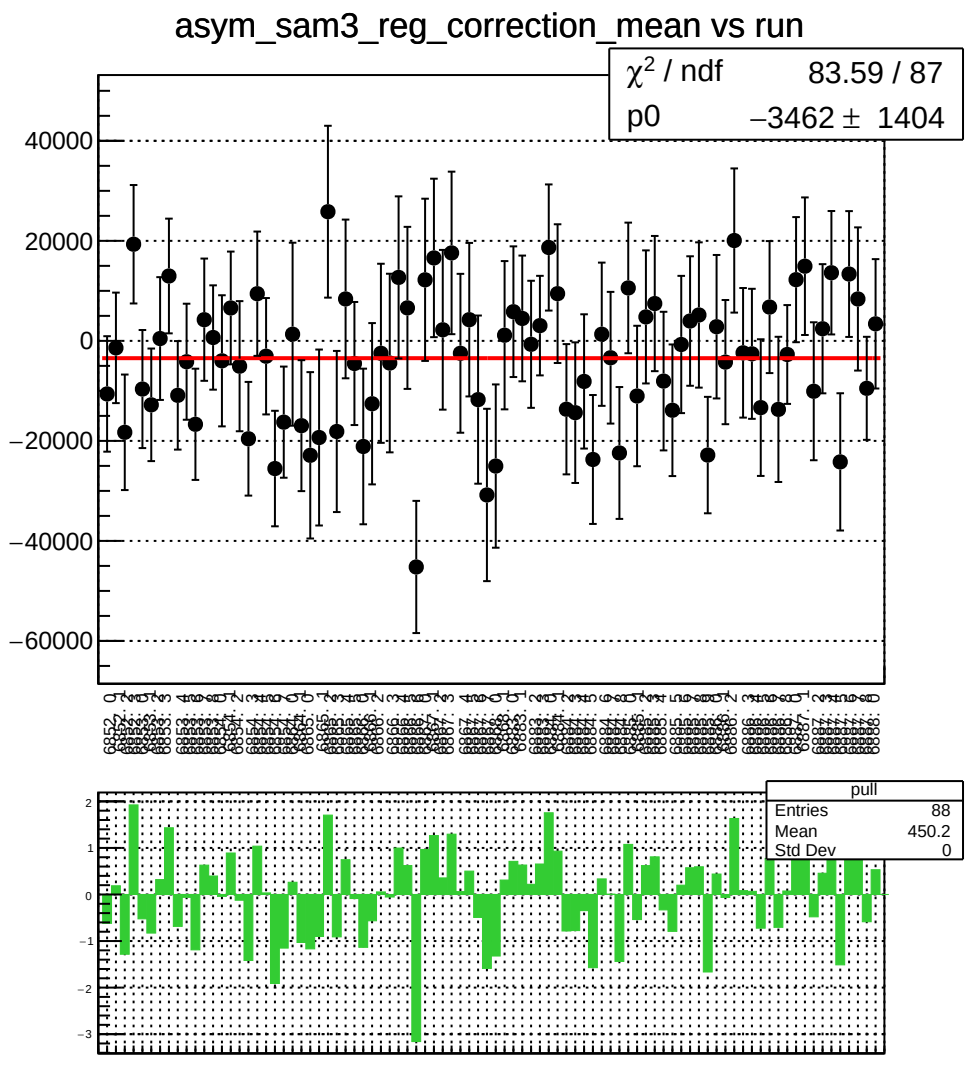

pull1D
Entries 88
Mean 0.009528
Std Dev 1.052

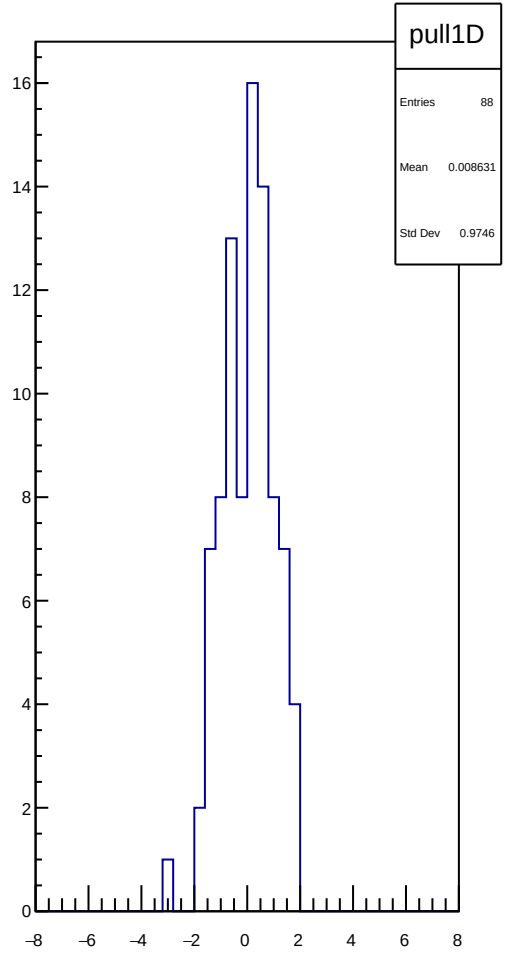

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.075e+06 / 87
p0 2.749e−11 ± 3.502e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

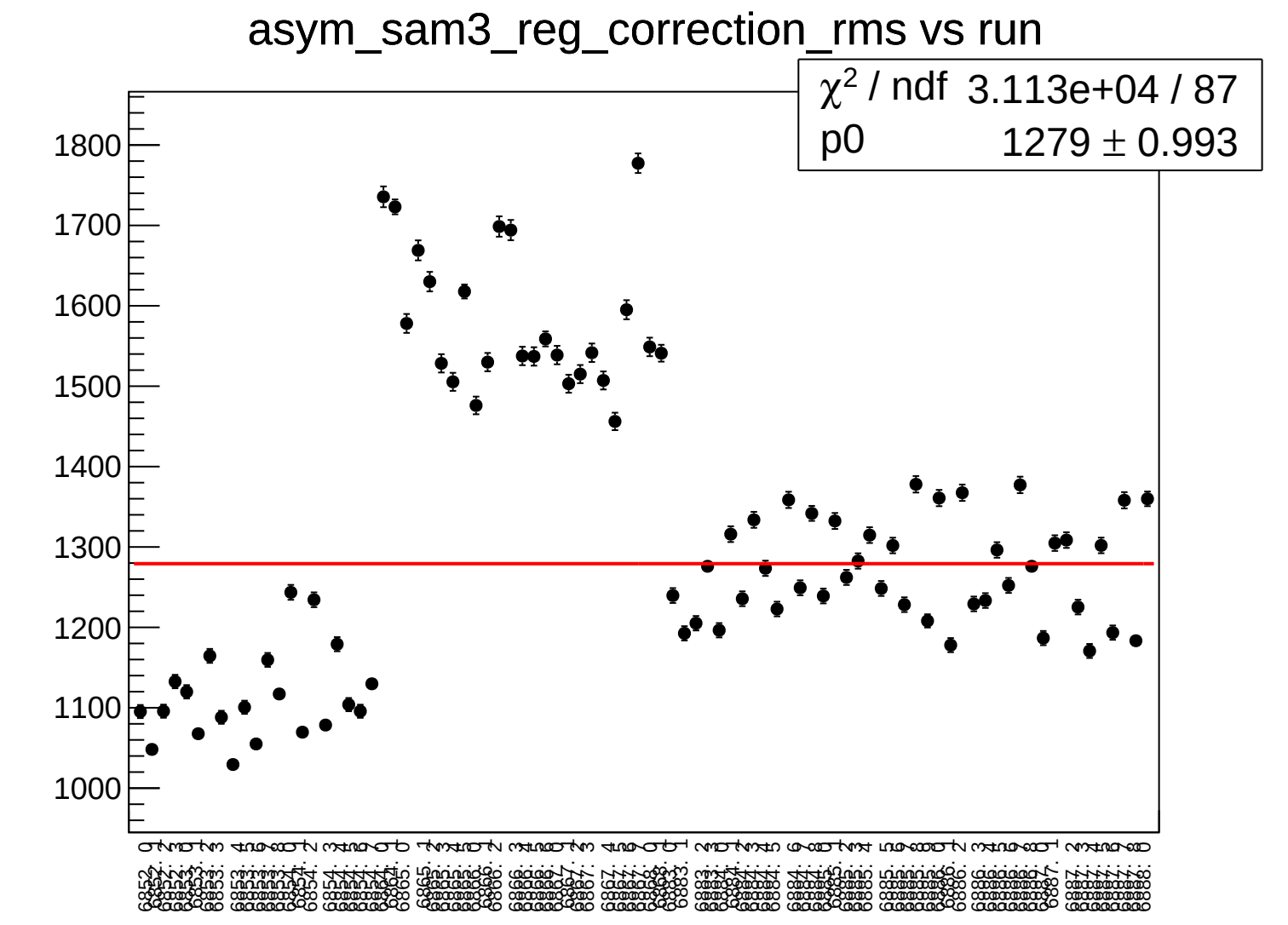

reg_asym_sam3_mean vs run
χ² / ndf 89.28 / 87
p0 −168.2 ± 118.4
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 179
Std Dev 0
2
1
0
−1
−2
−3

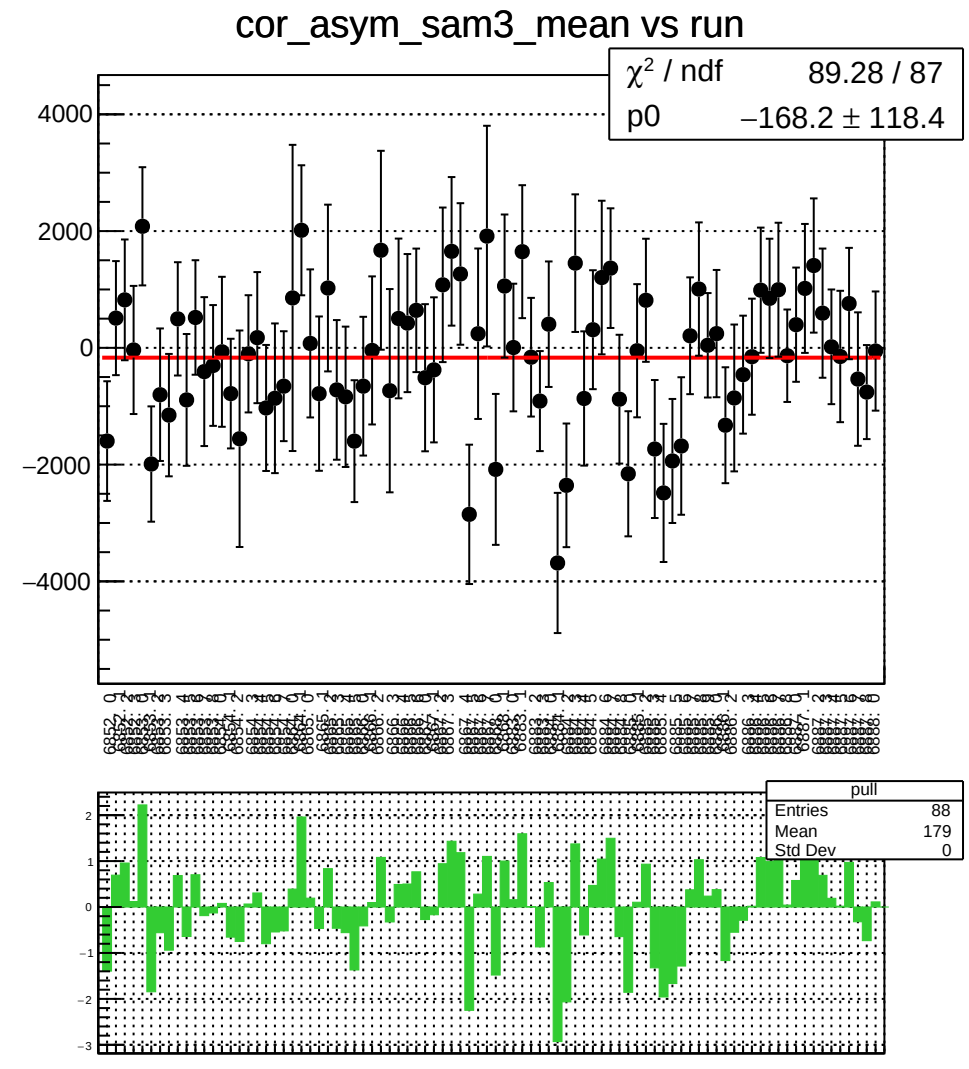

pull1D
Entries 88
Mean 0.01119
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

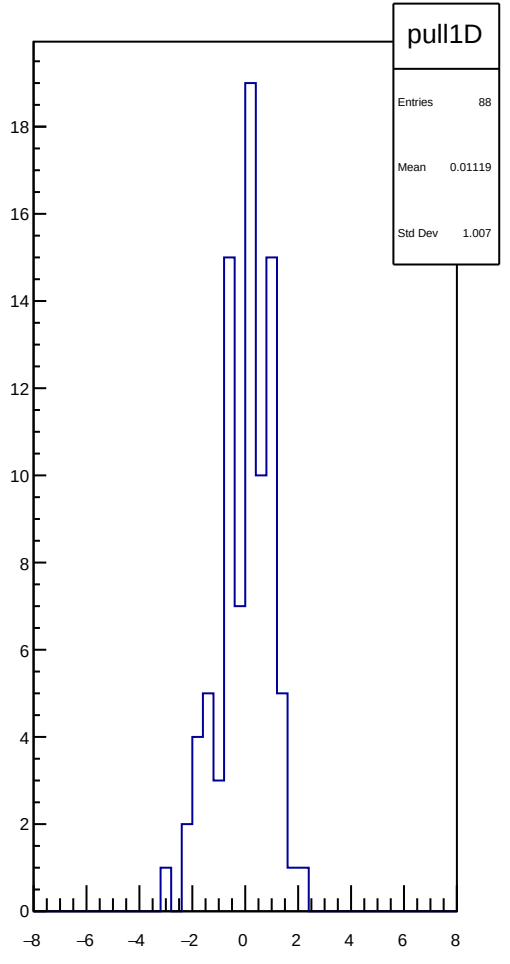

reg_asym_sam3_rms vs run
χ² / ndf 3.762e+04 / 87
p0 107.7 ± 0.08373
260
240
220
200
180
160
140
120
100
80

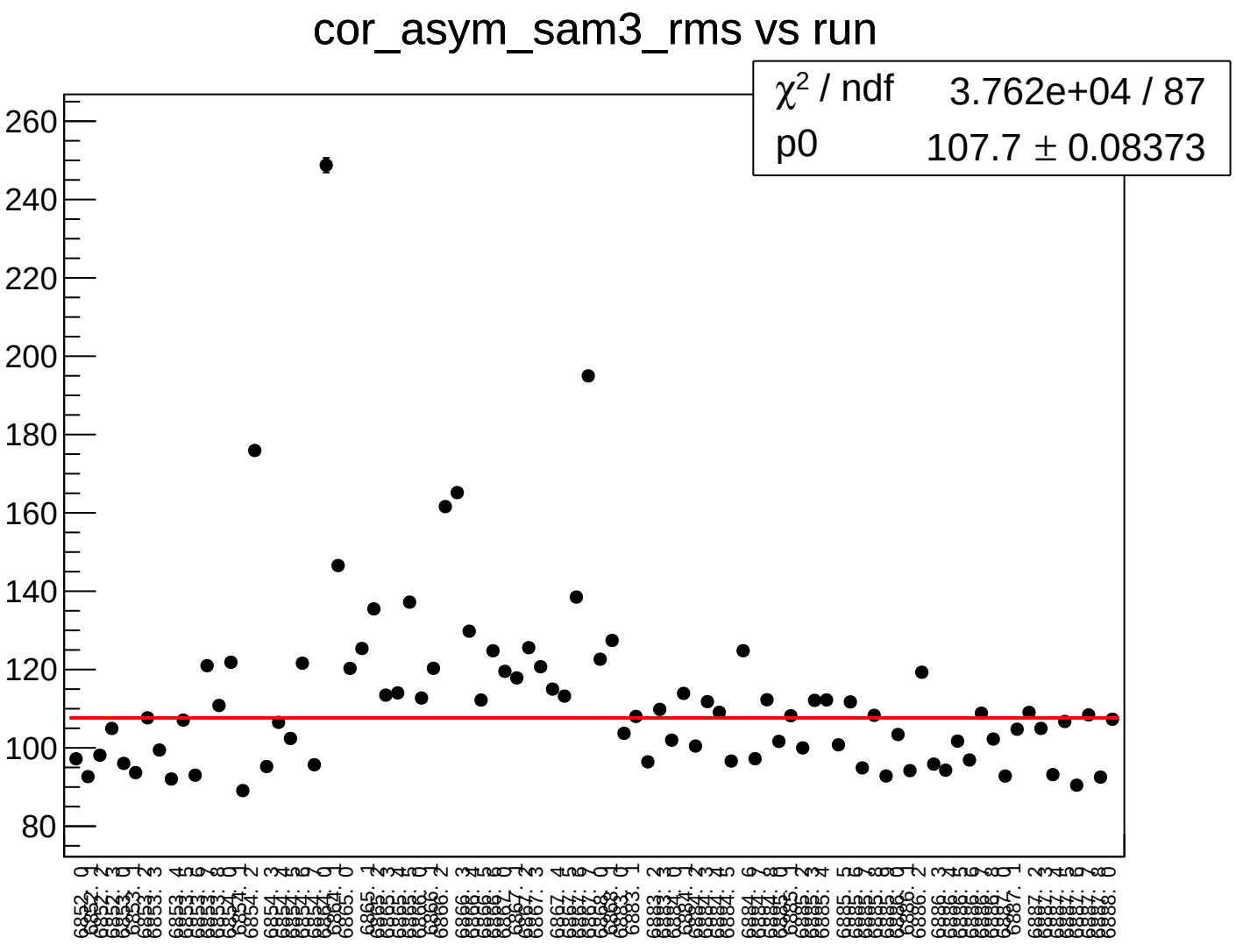

asym_sam3_reg_correction_mean vs run
χ² / ndf 83.59 / 87
p0 −3462 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 450.2
Std Dev 0
2
1
0
−1
−2
−3

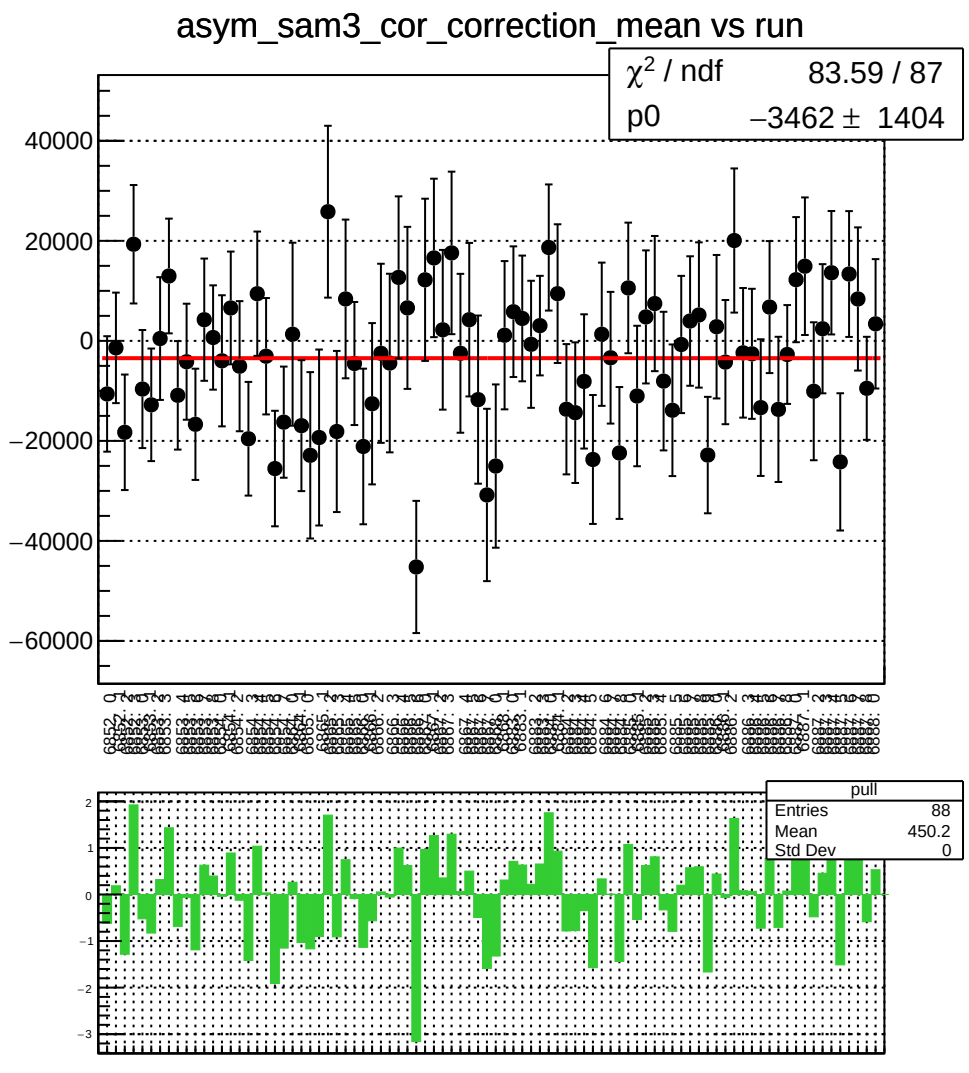

pull1D
Entries 88
Mean 0.008631
Std Dev 0.9746
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

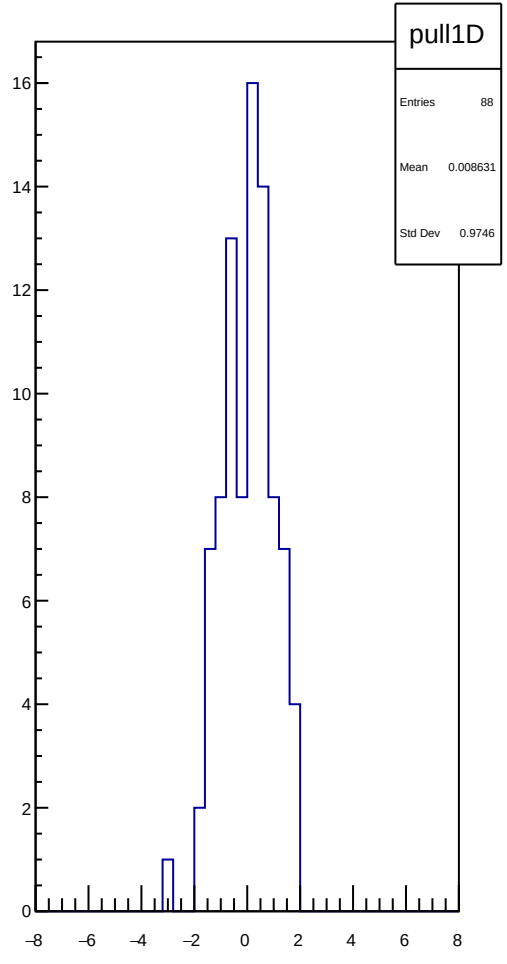

asym_sam3_reg_correction_rms vs run
χ² / ndf 3.113e+04 / 87
p0 1279 ± 0.993
1800
1700
1600
1500
1400
1300
1200
1100
1000

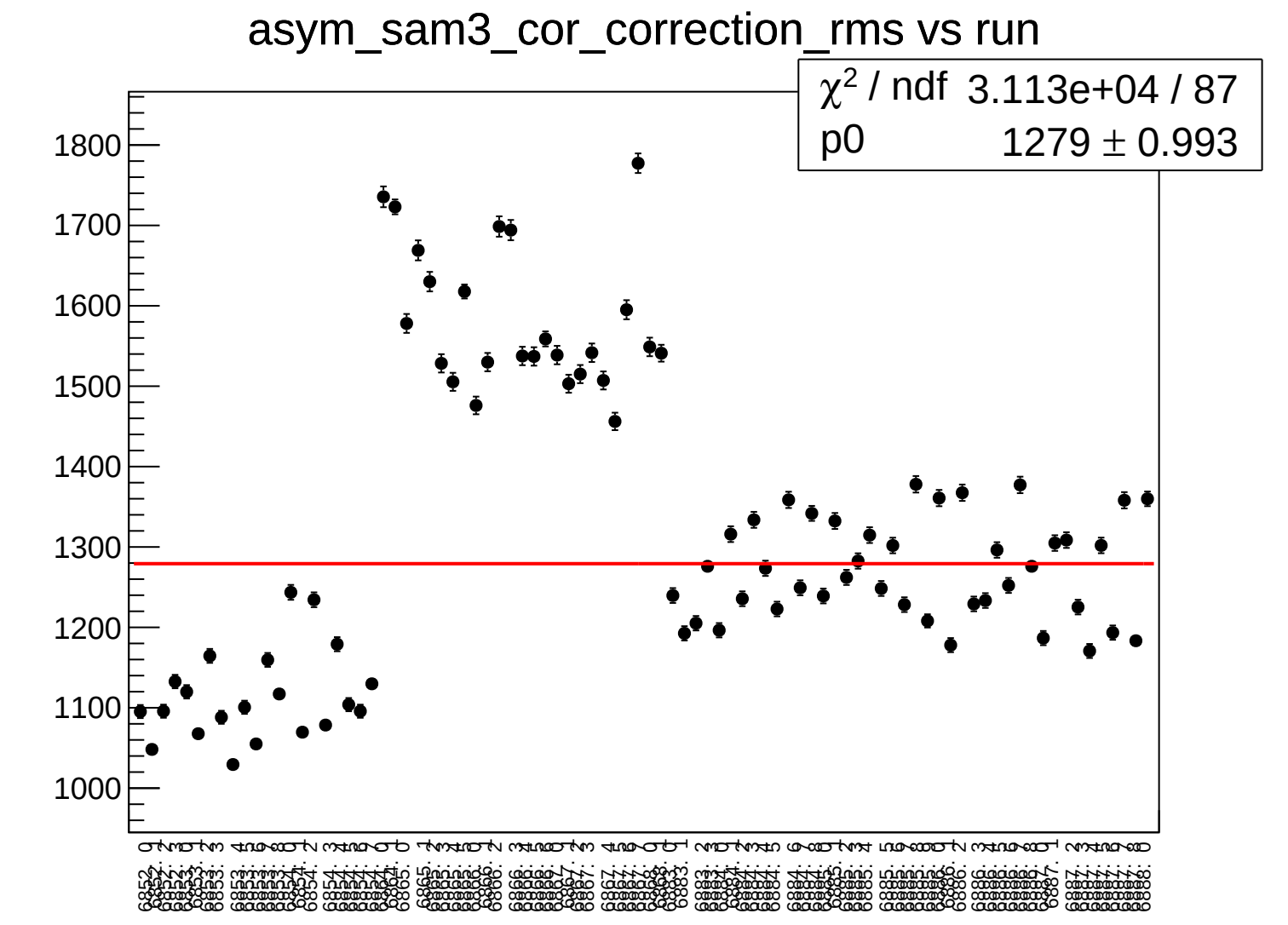

cor_asym_sam3_mean vs run
χ² / ndf 89.28 / 87
p0 −168.2 ± 118.4
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 179
Std Dev 0
2
1
0
−1
−2
−3

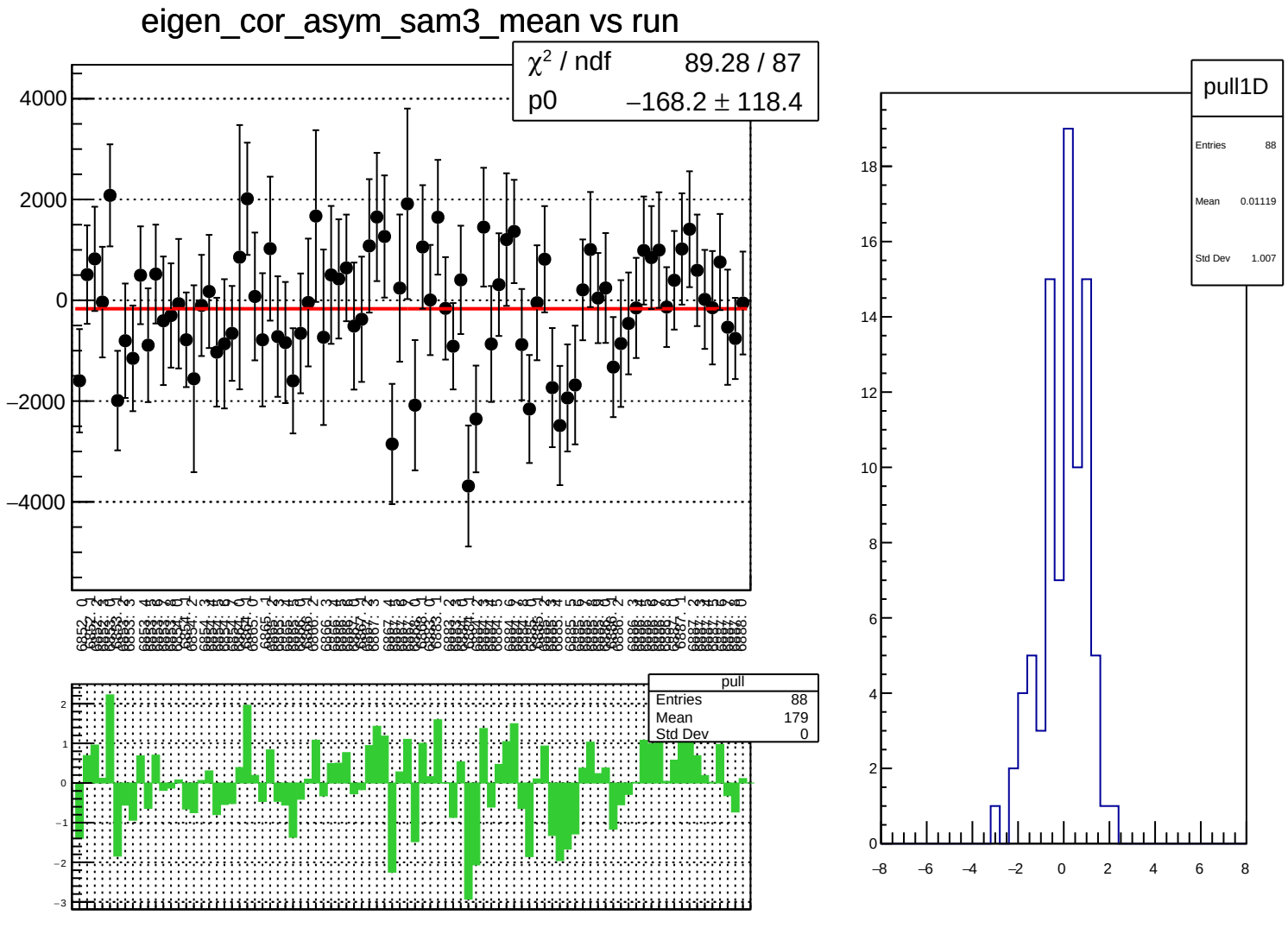

pull1D
Entries 88
Mean 0.01119
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

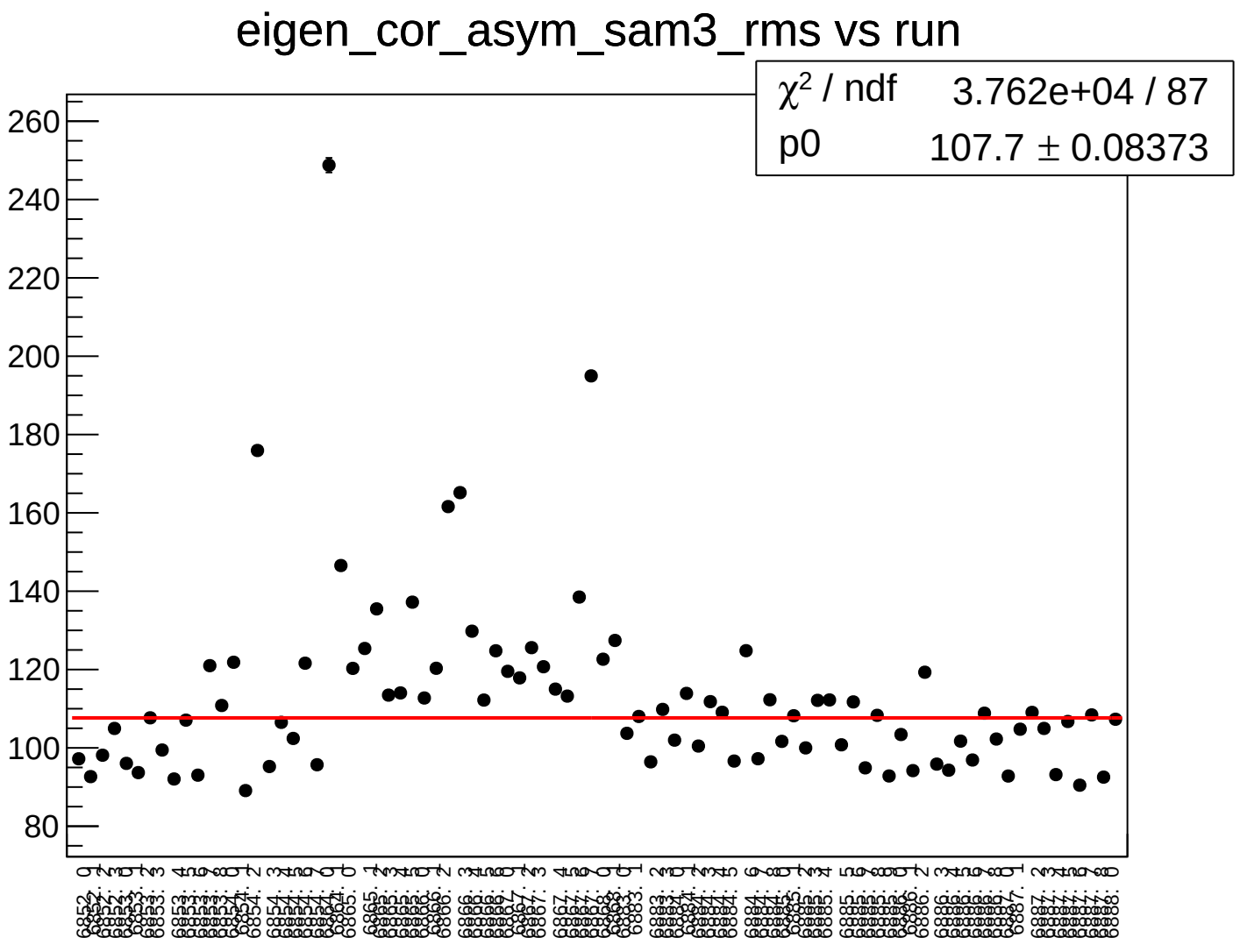

cor_asym_sam3_rms vs run
χ² / ndf 3.762e+04 / 87
p0 107.7 ± 0.08373
260
240
220
200
180
160
140
120
100
80

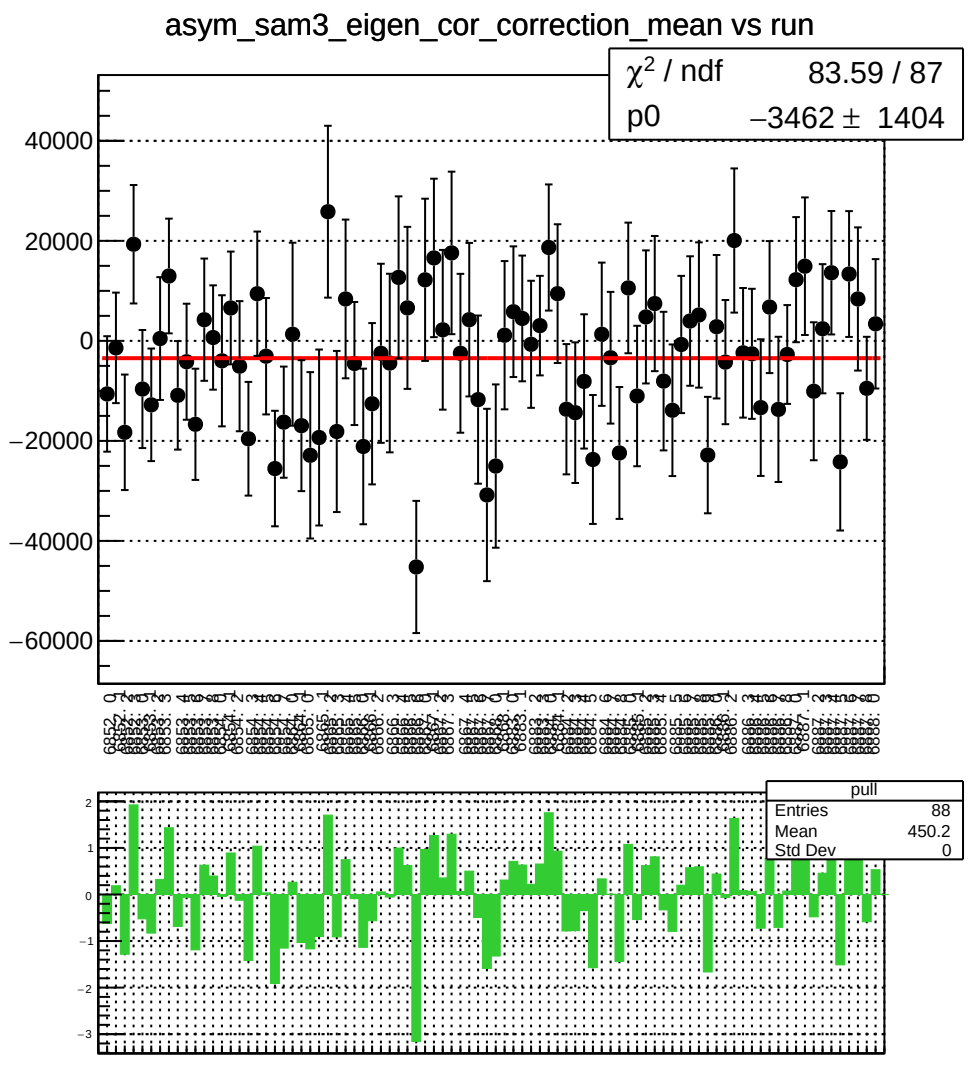

asym_sam3_cor_correction_mean vs run
χ² / ndf 83.59 / 87
p0 −3462 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 450.2
Std Dev 0
2
1
0
−1
−2
−3

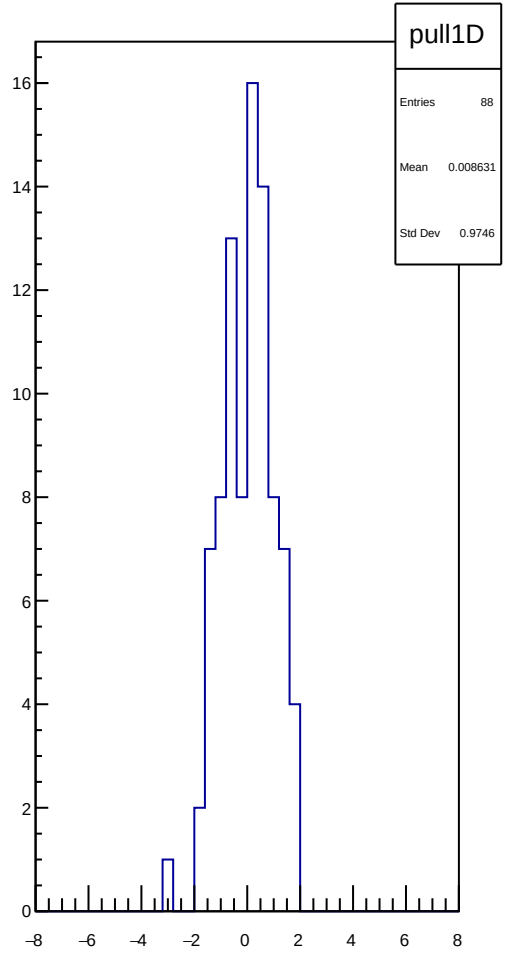

pull1D
Entries 88
Mean 0.008631
Std Dev 0.9746
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

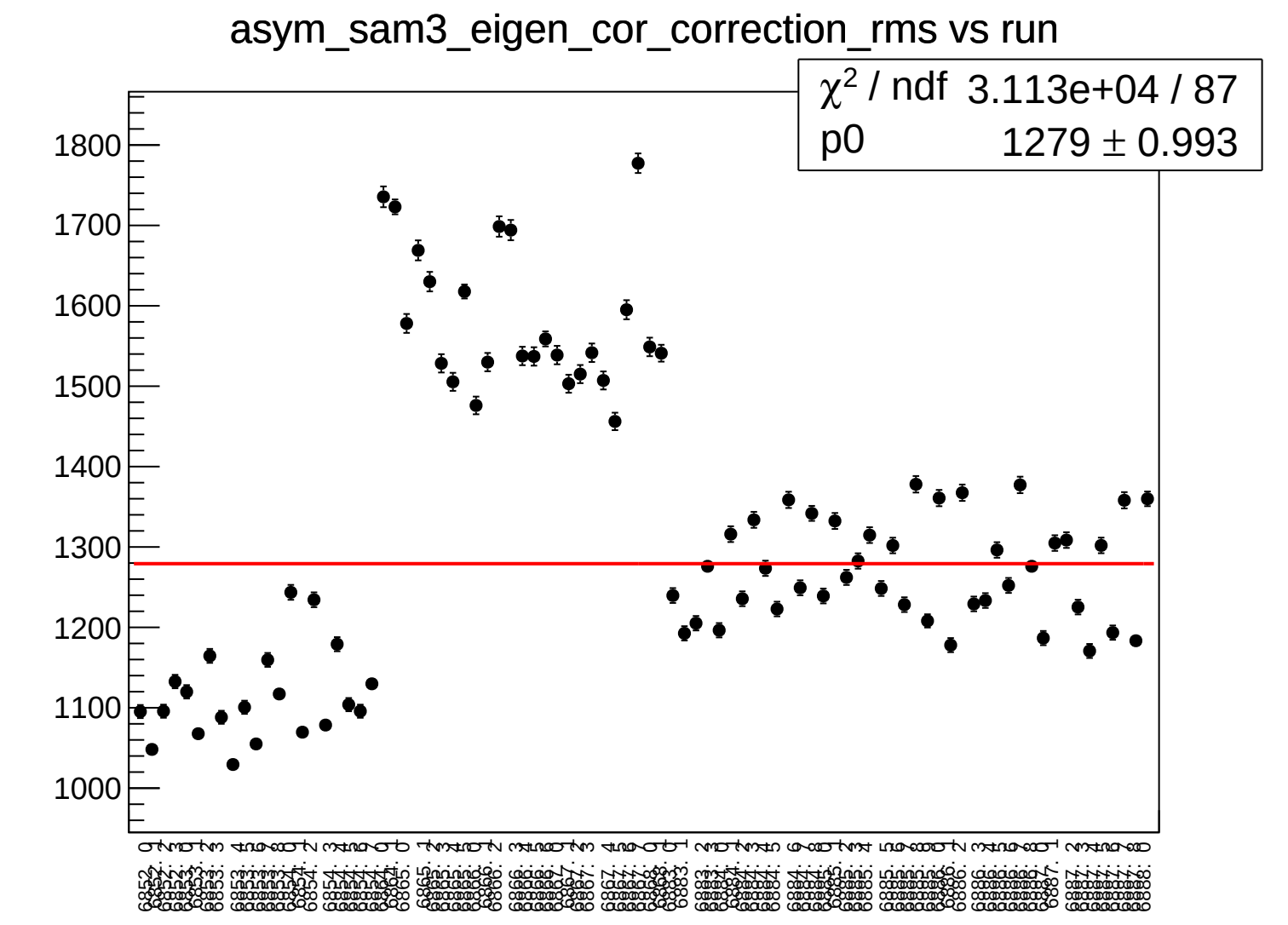

asym_sam3_cor_correction_rms vs run
χ² / ndf 3.113e+04 / 87
p0 1279 ± 0.993
1800
1700
1600
1500
1400
1300
1200
1100
1000

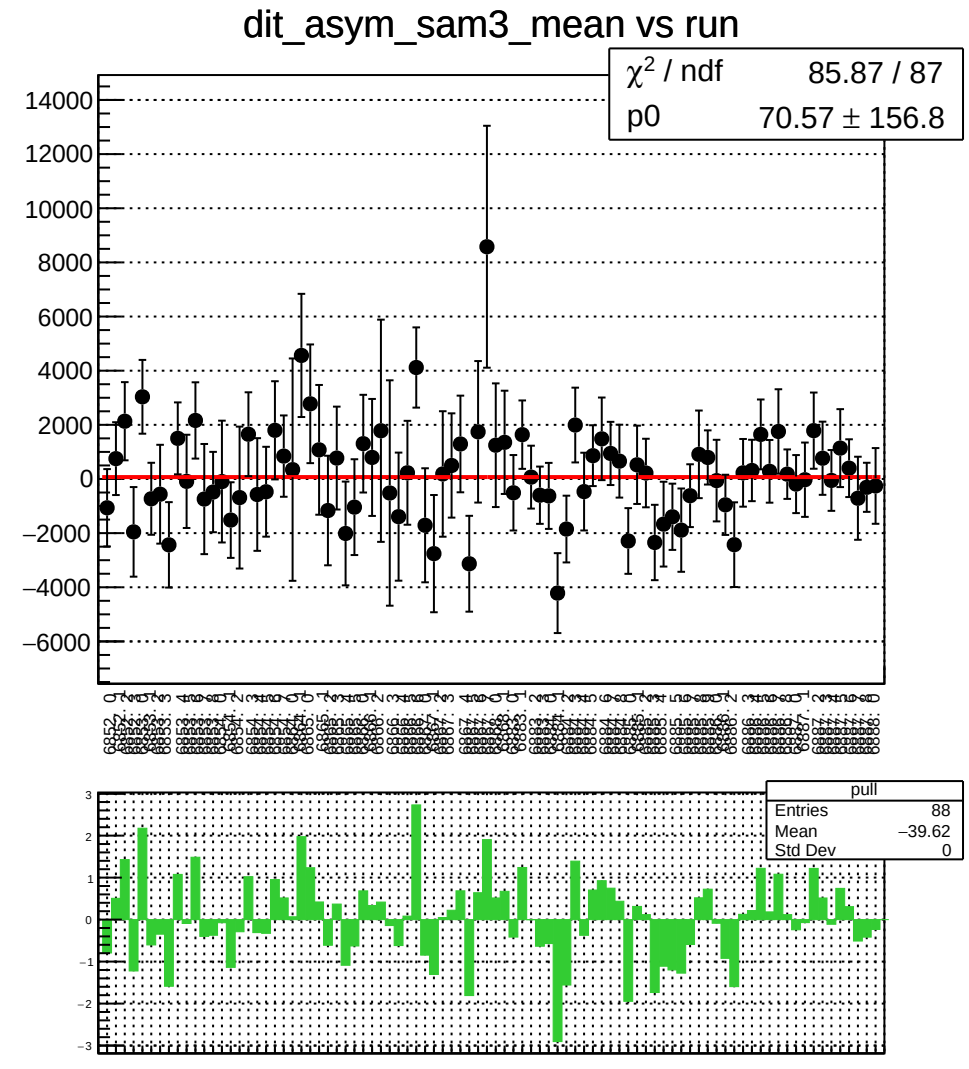

eigen_cor_asym_sam3_mean vs run
χ² / ndf 89.28 / 87
p0 −168.2 ± 118.4
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 179
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01119
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

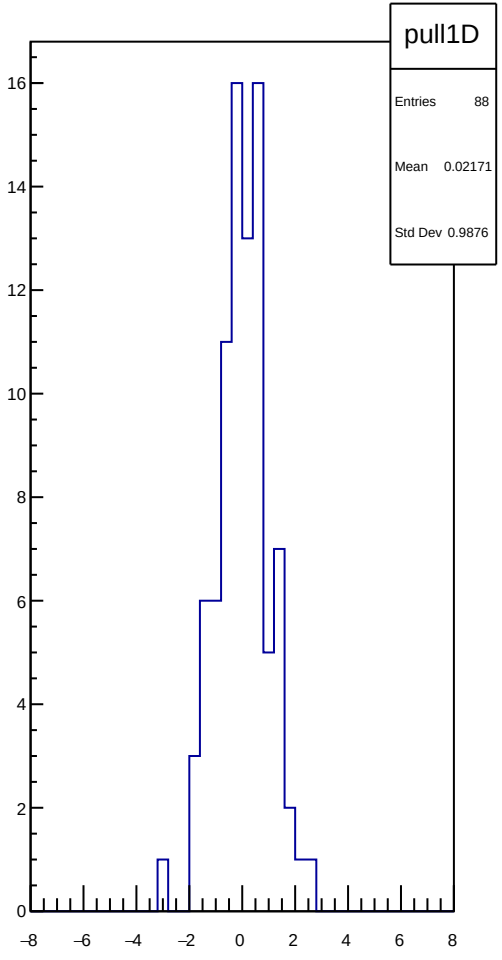

eigen_cor_asym_sam3_rms vs run
χ² / ndf 3.762e+04 / 87
p0 107.7 ± 0.08373
260
240
220
200
180
160
140
120
100
80

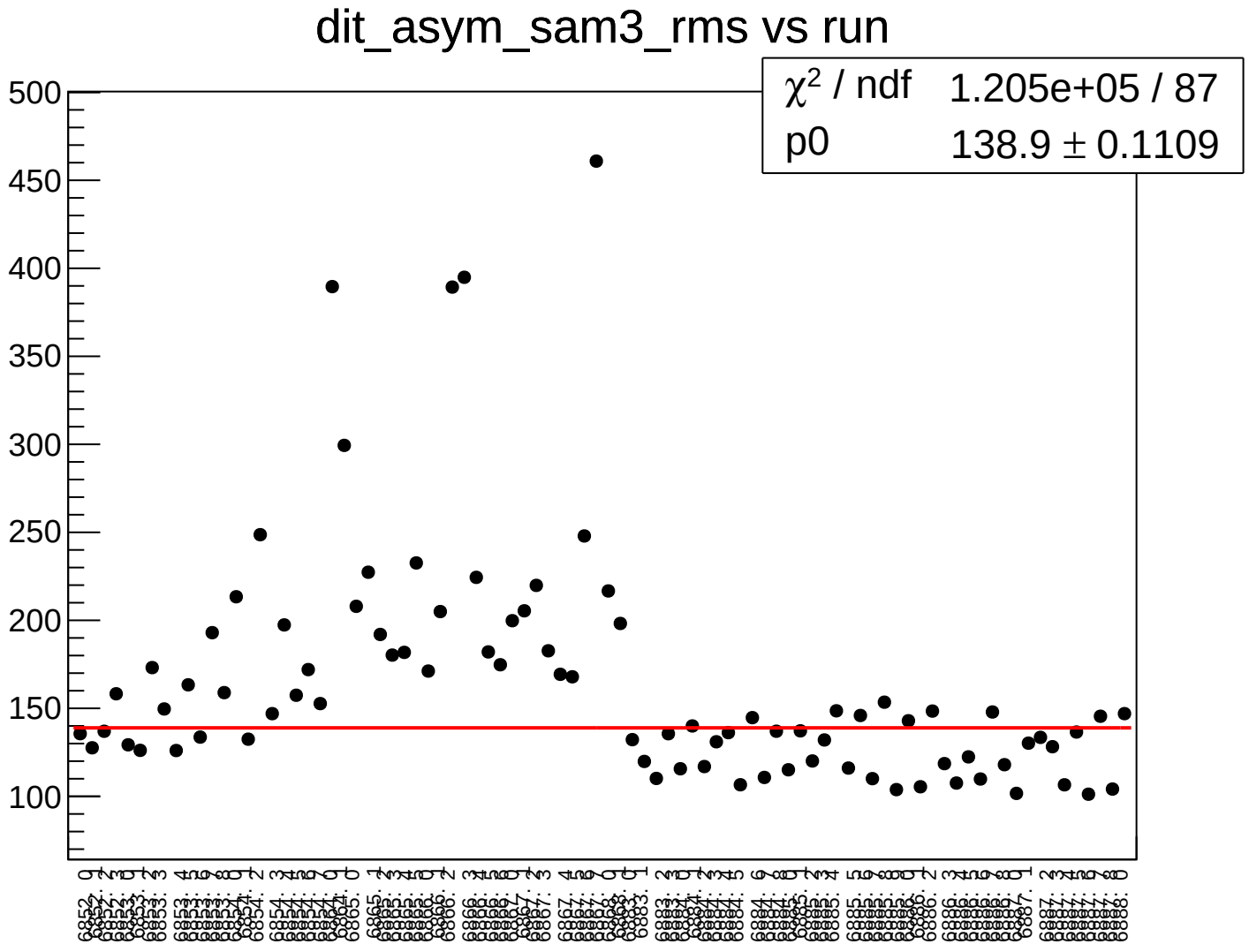

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 83.59 / 87
p0 −3462 ± 1404
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 450.2
Std Dev 0
2
1
0
−1
−2
−3

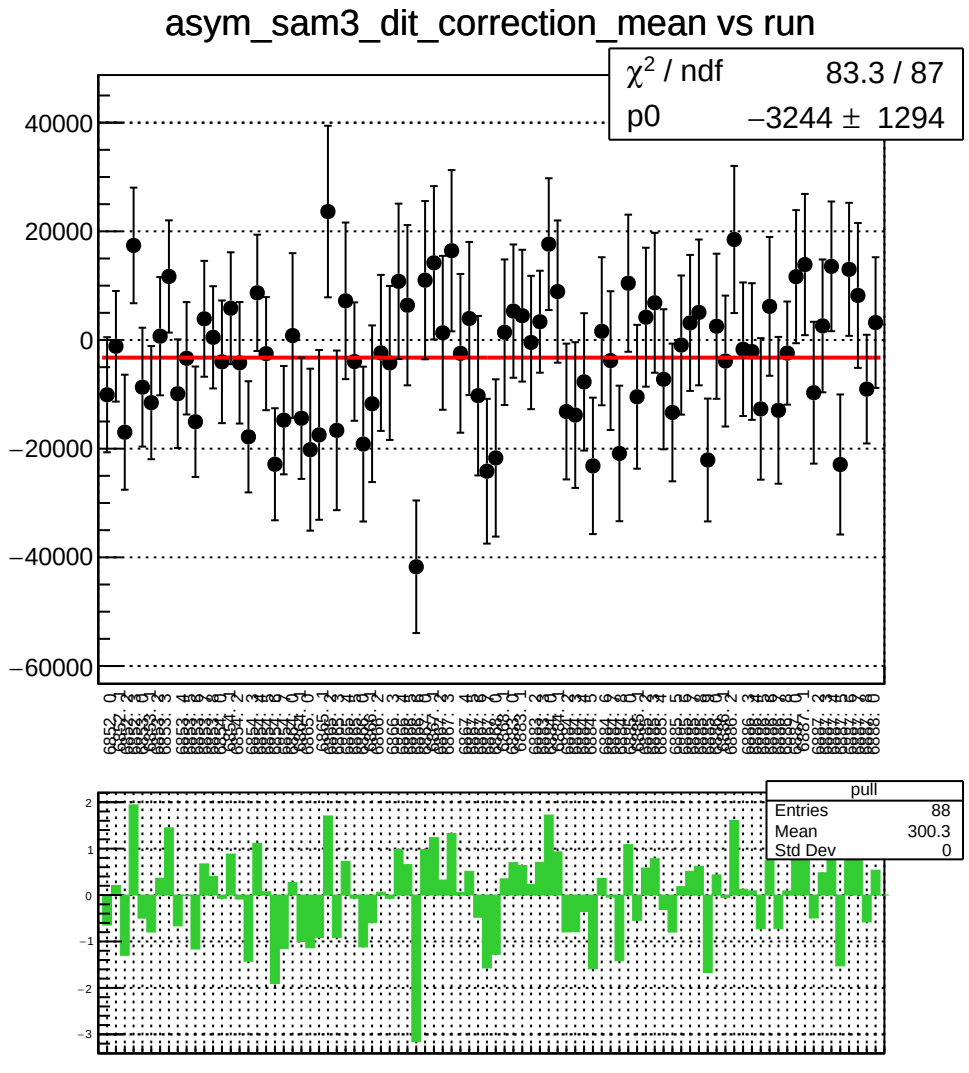

pull1D
Entries 88
Mean 0.008631
Std Dev 0.9746
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

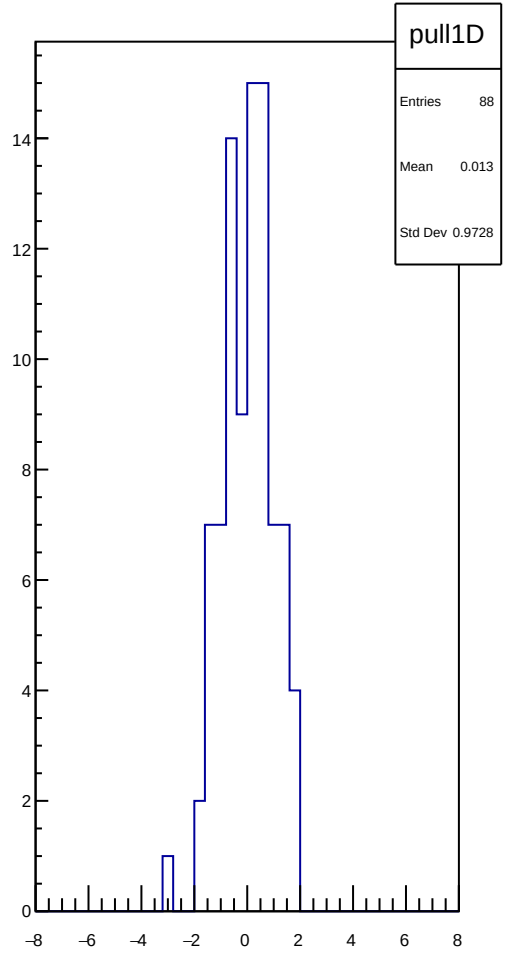

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 3.113e+04 / 87
p0 1279 ± 0.993
1800
1700
1600
1500
1400
1300
1200
1100
1000

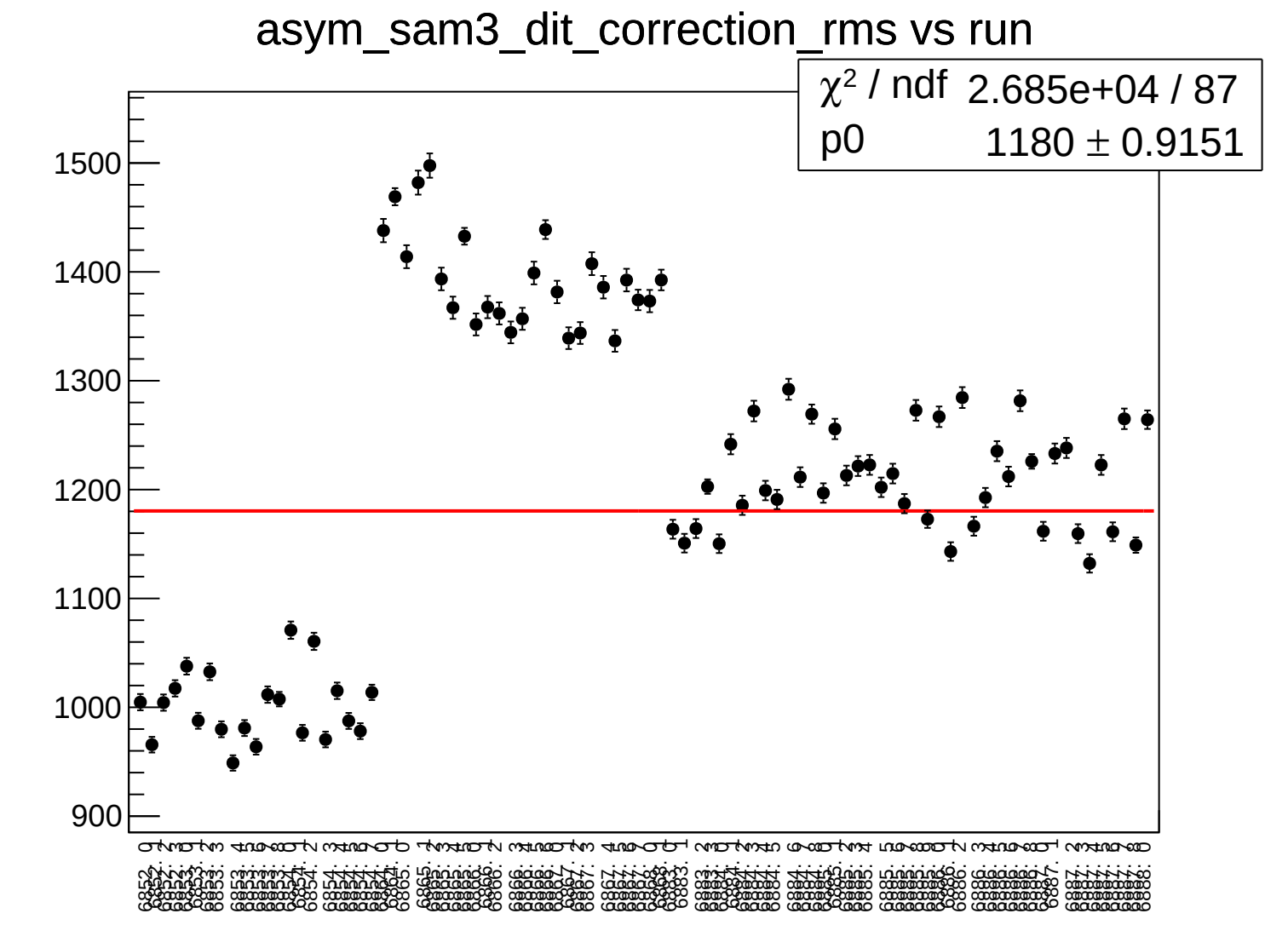

dit_asym_sam3_mean vs run
χ² / ndf 85.87 / 87
p0 70.57 ± 156.8
pull
Entries 88
Mean −39.62
Std Dev 0

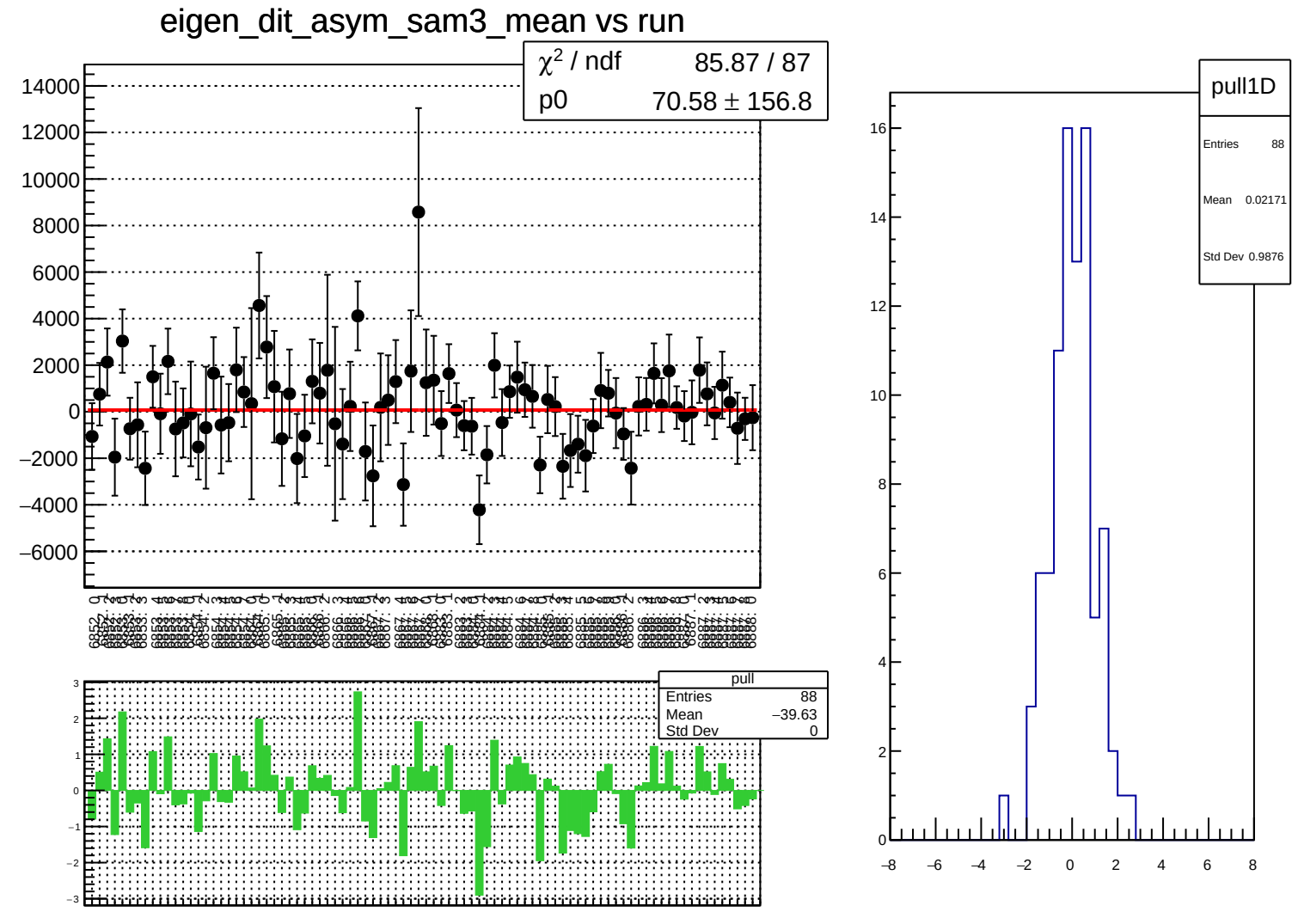

pull1D
Entries 88
Mean 0.02171
Std Dev 0.9876

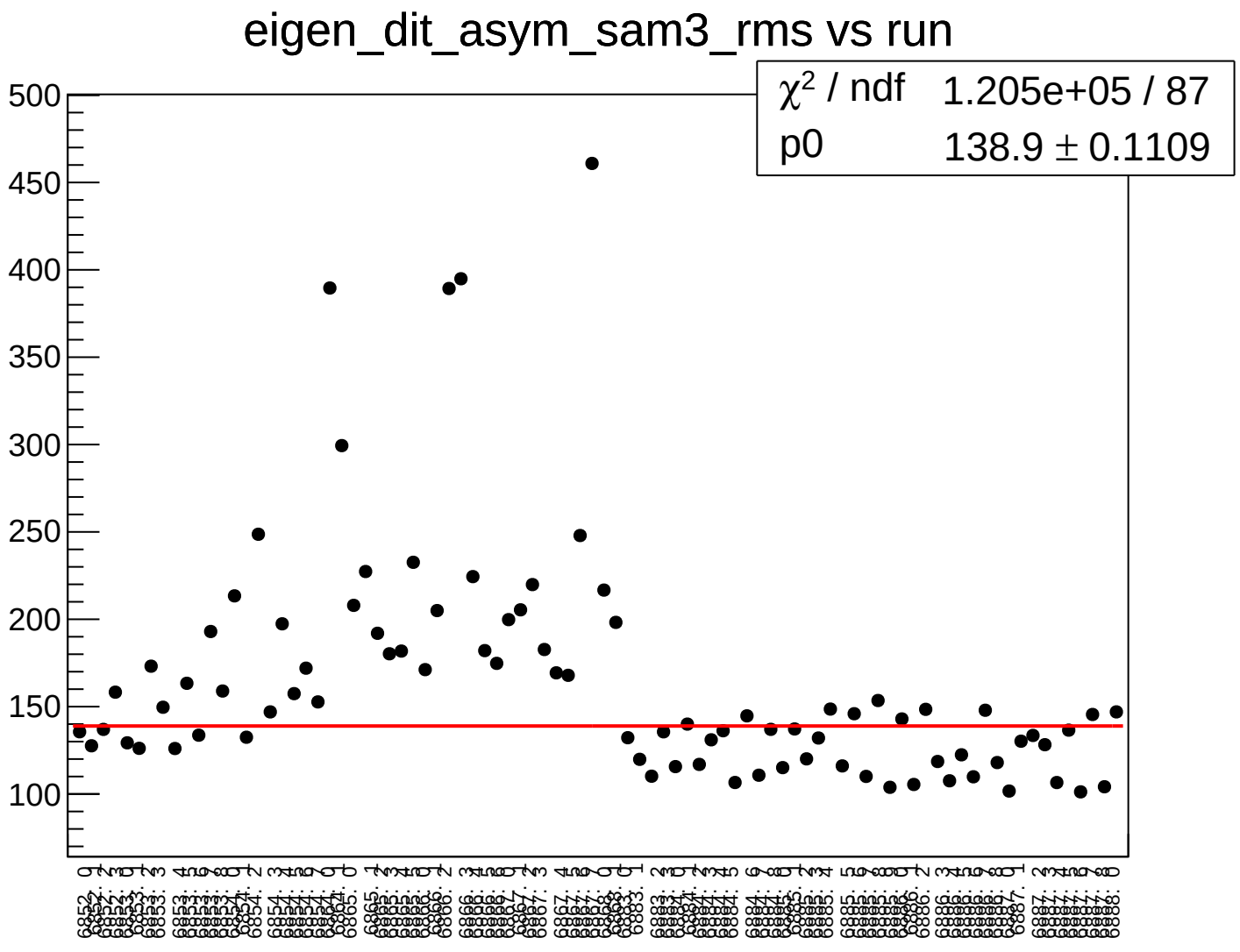

dit_asym_sam3_rms vs run
χ² / ndf 1.205e+05 / 87
p0 138.9 ± 0.1109
500
450
400
350
300
250
200
150
100

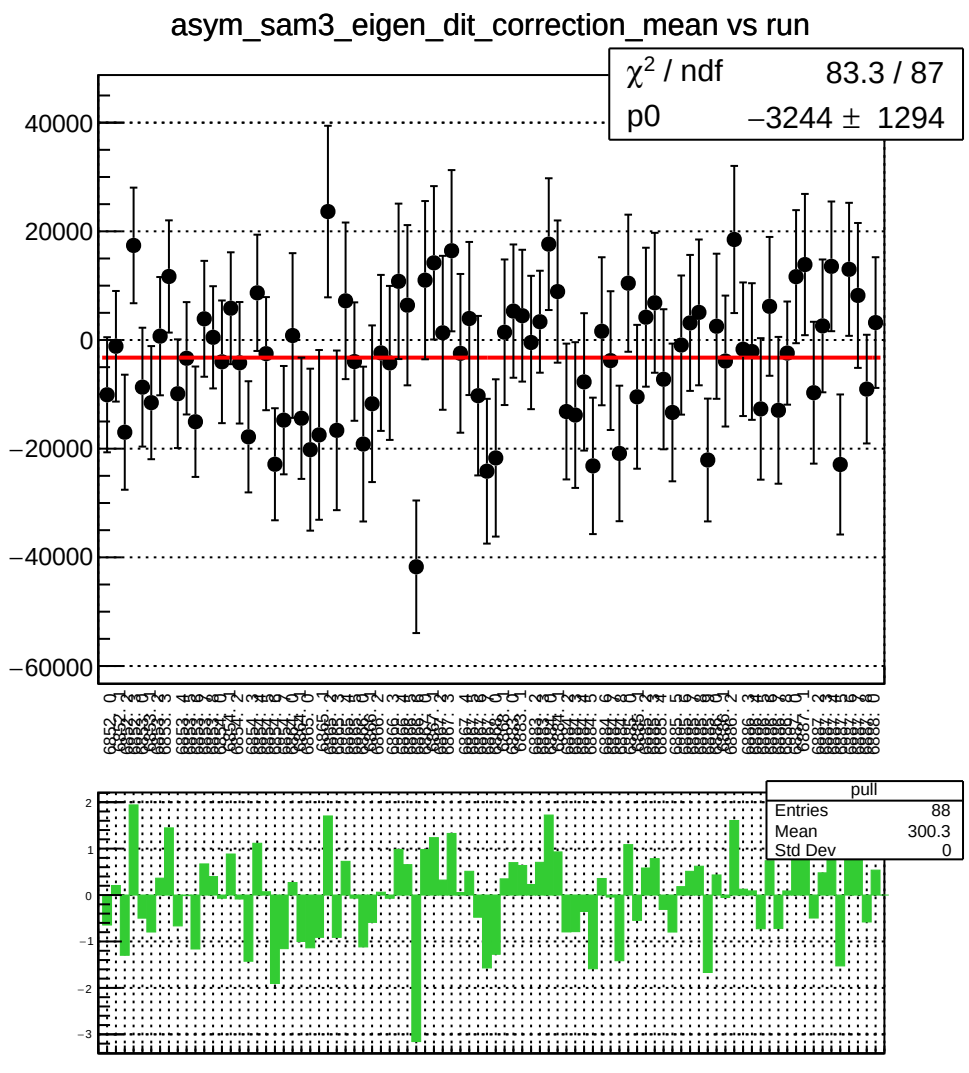

asym_sam3_dit_correction_mean vs run
χ² / ndf 83.3 / 87
p0 −3244 ± 1294
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 300.3
Std Dev 0
2
1
0
−1
−2
−3

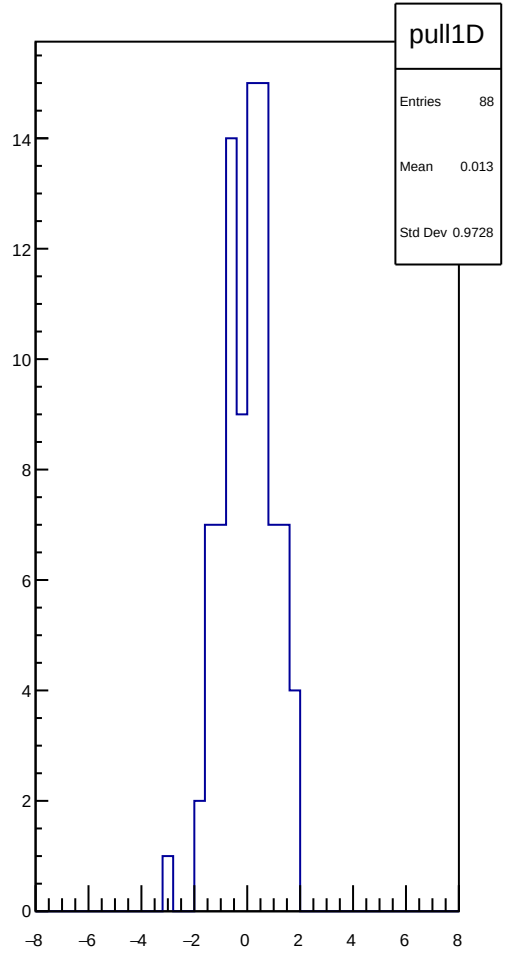

pull1D
Entries 88
Mean 0.013
Std Dev 0.9728
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

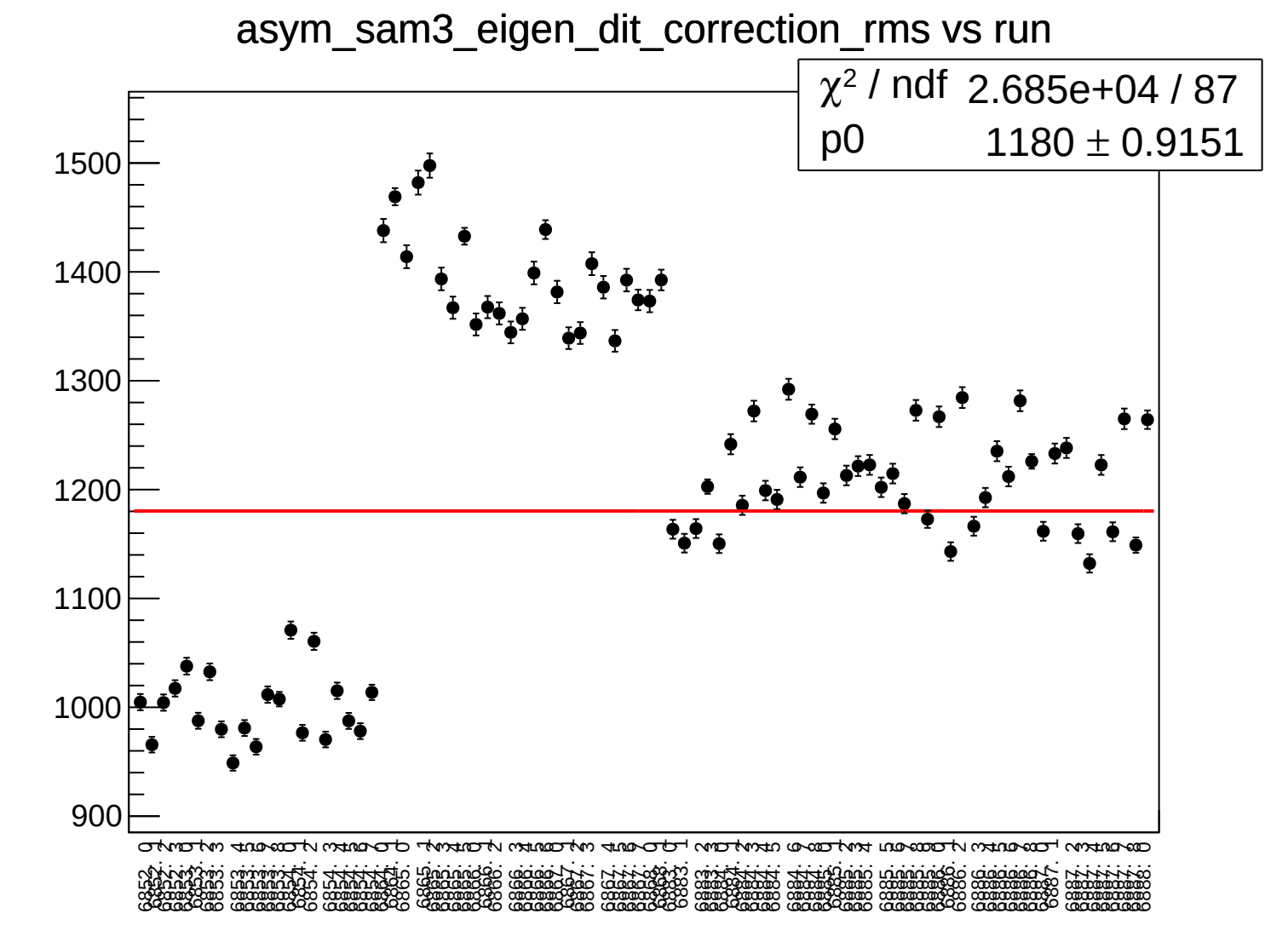

asym_sam3_dit_correction_rms vs run
χ² / ndf 2.685e+04 / 87
p0 1180 ± 0.9151
1500
1400
1300
1200
1100
1000
900

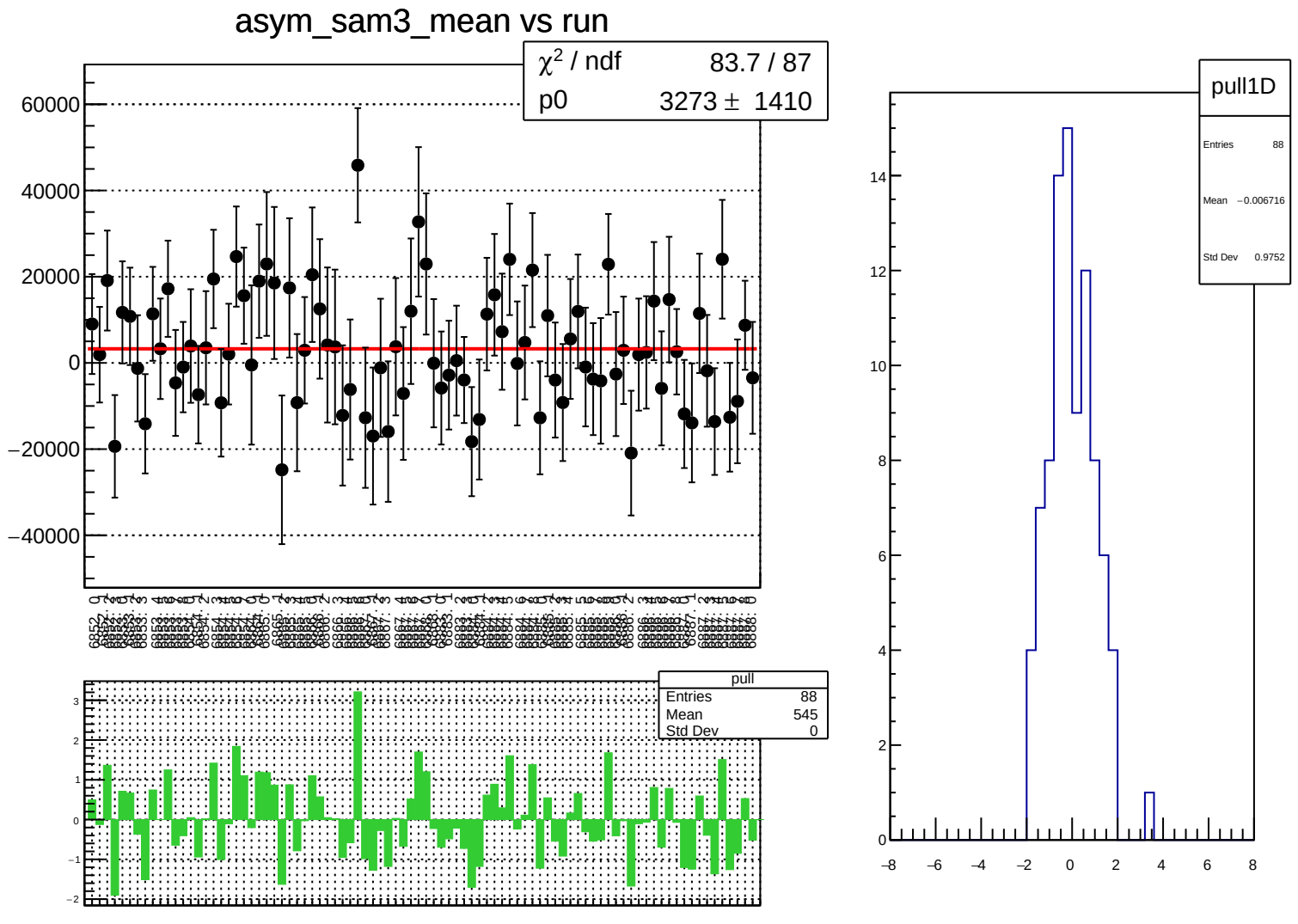

eigen_dit_asym_sam3_mean vs run
χ² / ndf 85.87 / 87
p0 70.58 ± 156.8
pull
Entries 88
Mean −39.63
Std Dev 0
pull1D
Entries 88
Mean 0.02171
Std Dev 0.9876

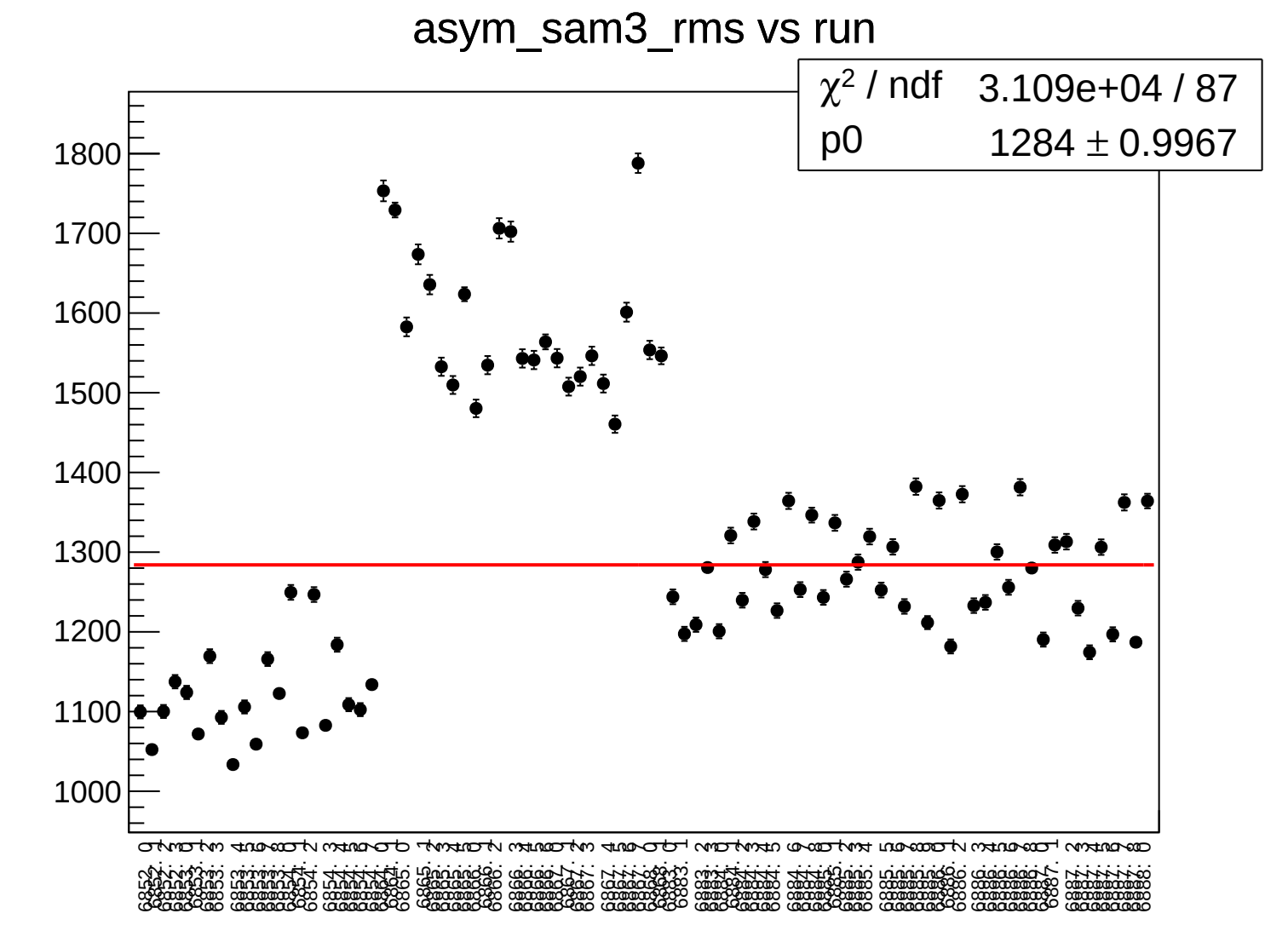

eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.205e+05 / 87
p0 138.9 ± 0.1109
500
450
400
350
300
250
200
150
100

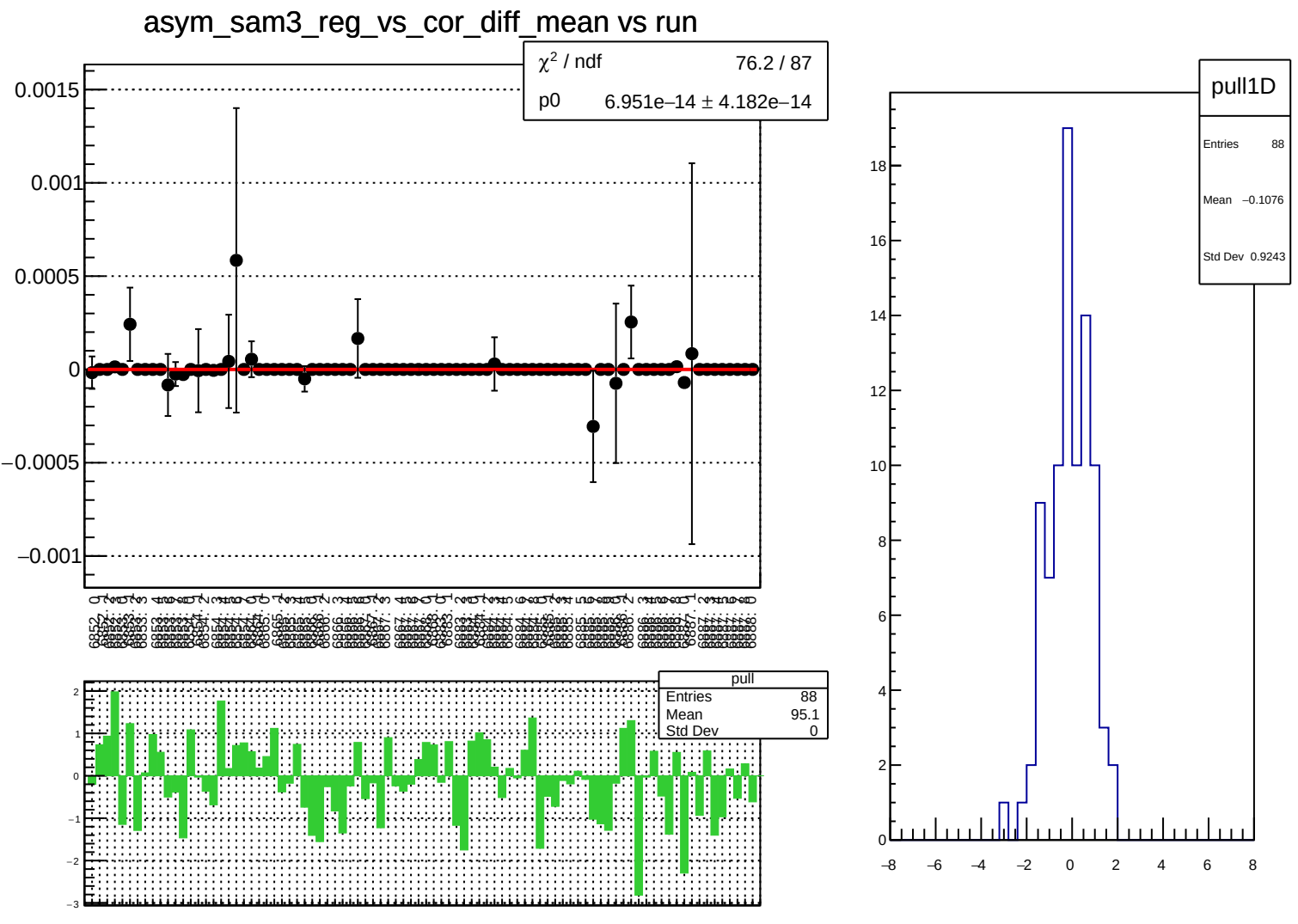

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 83.3 / 87
p0 −3244 ± 1294
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 300.3
Std Dev 0
2
1
0
−1
−2
−3

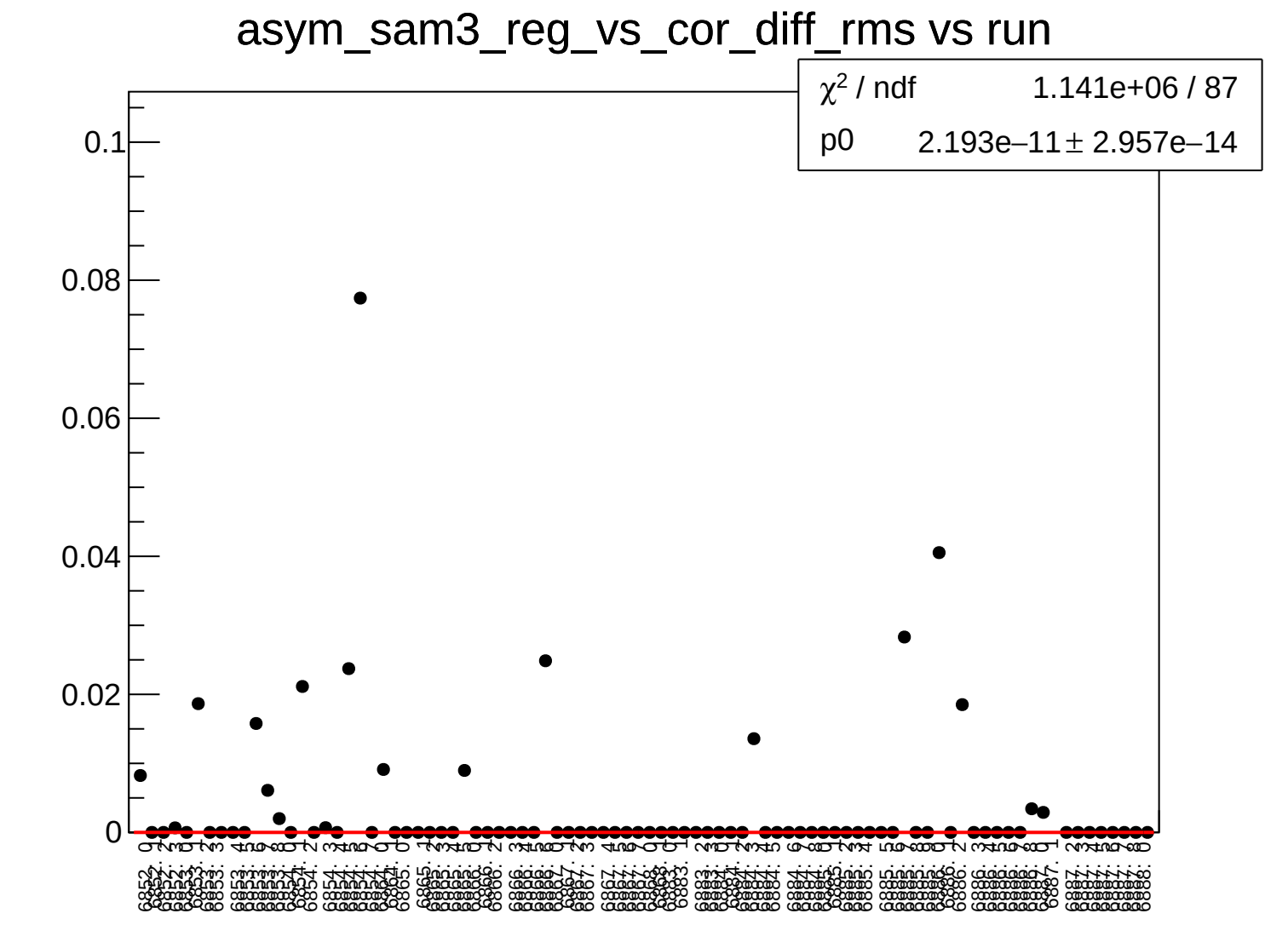

pull1D
Entries 88
Mean 0.013
Std Dev 0.9728
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

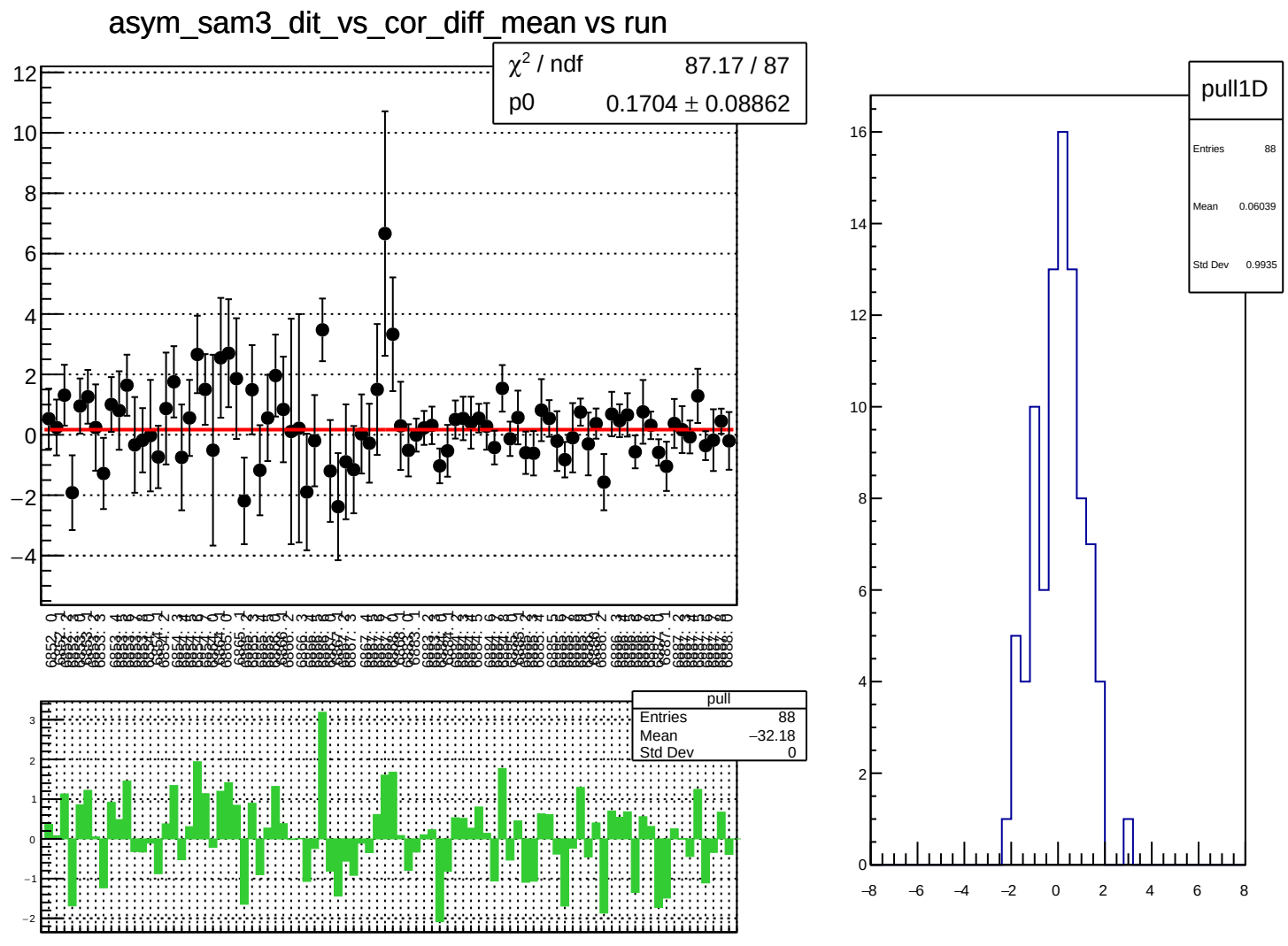

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 2.685e+04 / 87
p0 1180 ± 0.9151
1500
1400
1300
1200
1100
1000
900

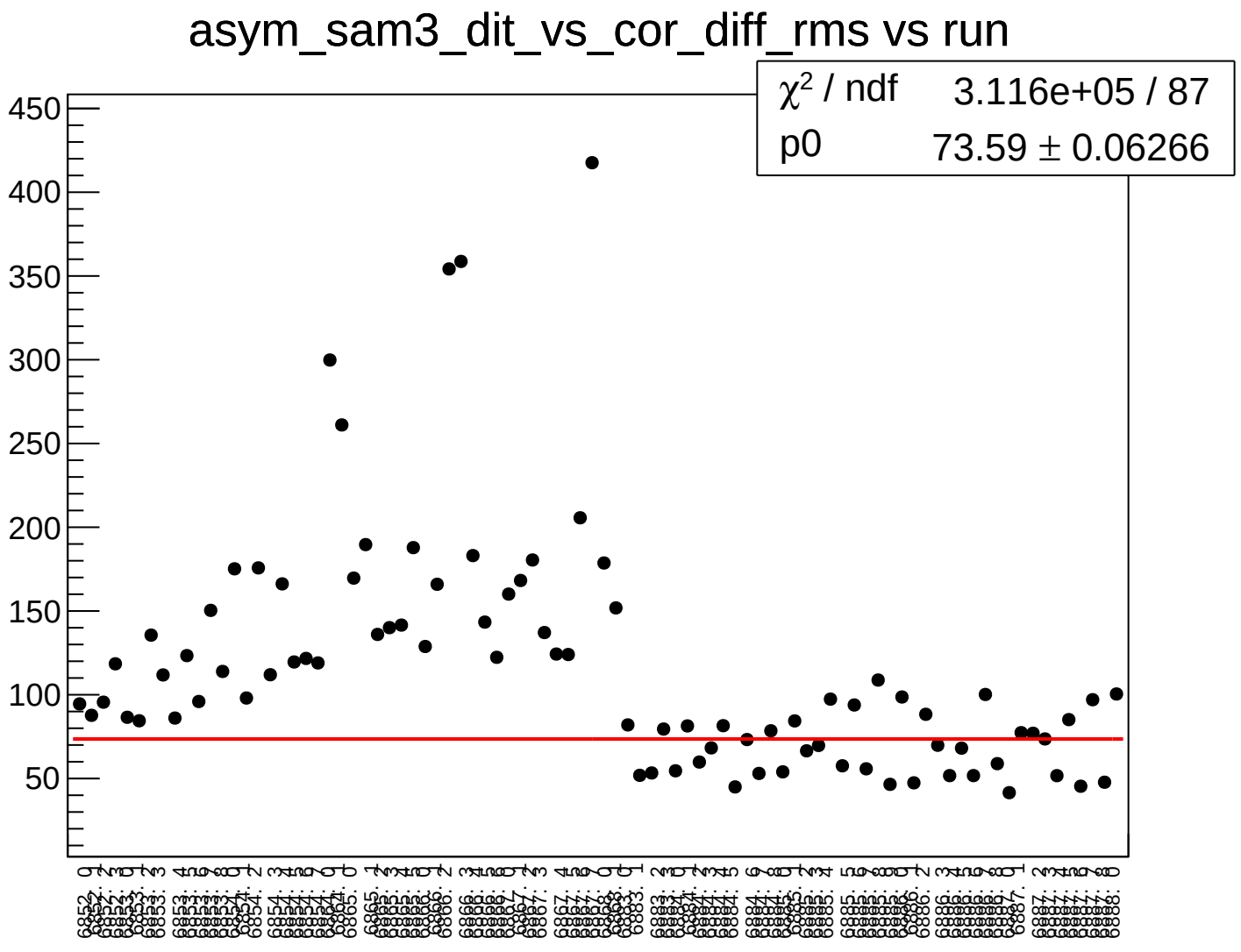

asym_sam3_mean vs run
χ² / ndf 83.7 / 87
p0 3273 ± 1410
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 545
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.006716
Std Dev 0.9752
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

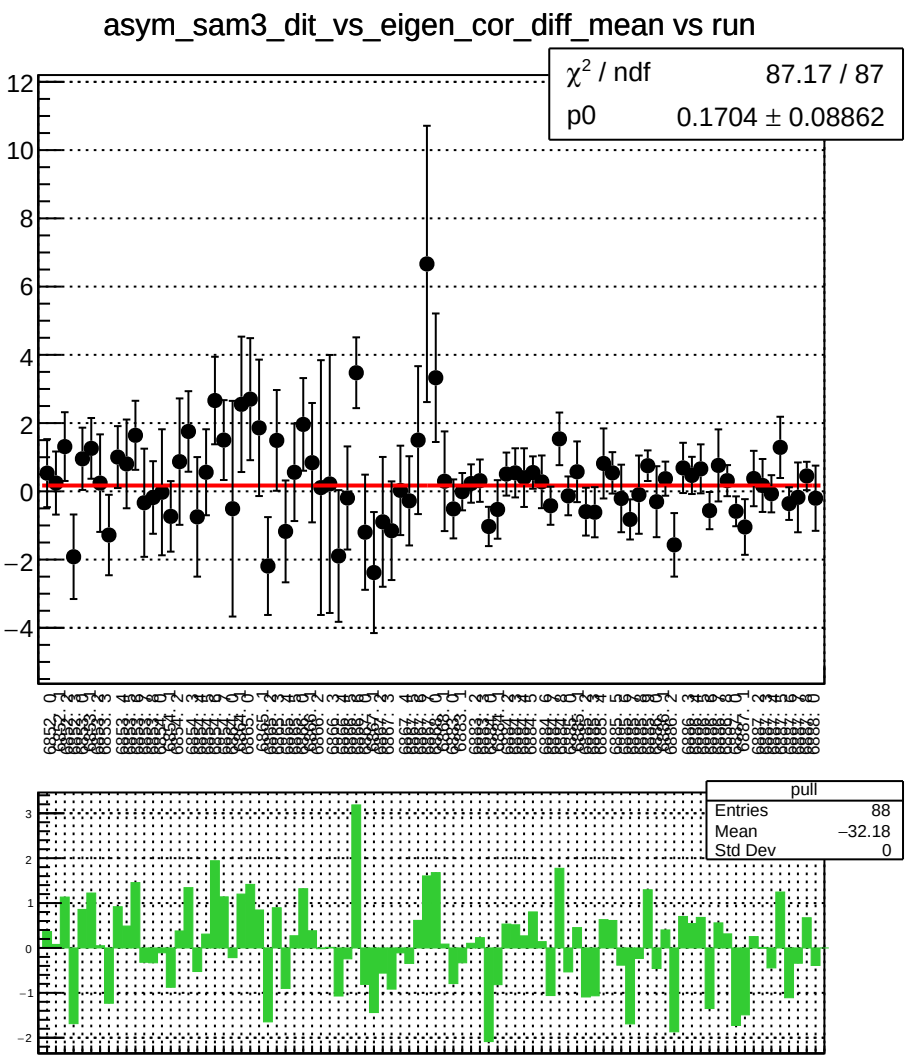

asym_sam3_rms vs run
χ² / ndf 3.109e+04 / 87
p0 1284 ± 0.9967
1800
1700
1600
1500
1400
1300
1200
1100
1000

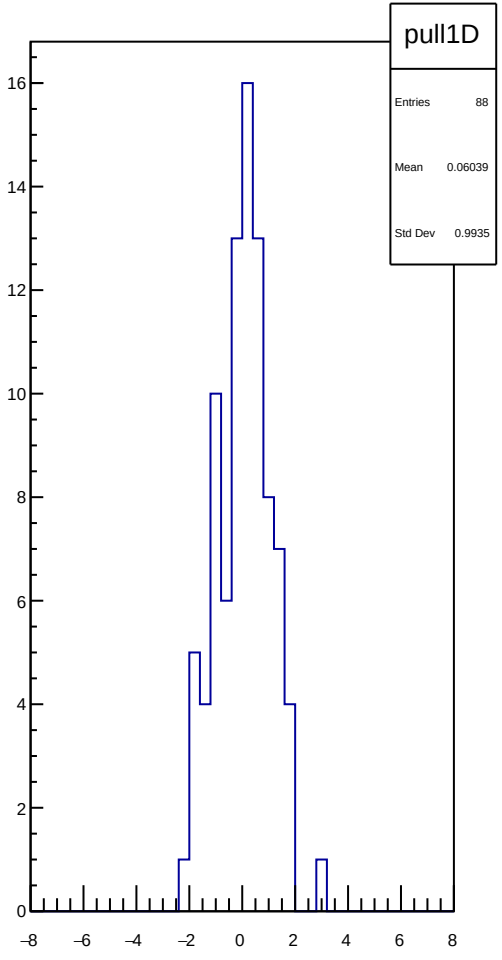

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 76.2 / 87
p0 6.951e−14 ± 4.182e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 95.1
Std Dev 0
pull1D
Entries 88
Mean −0.1076
Std Dev 0.9243

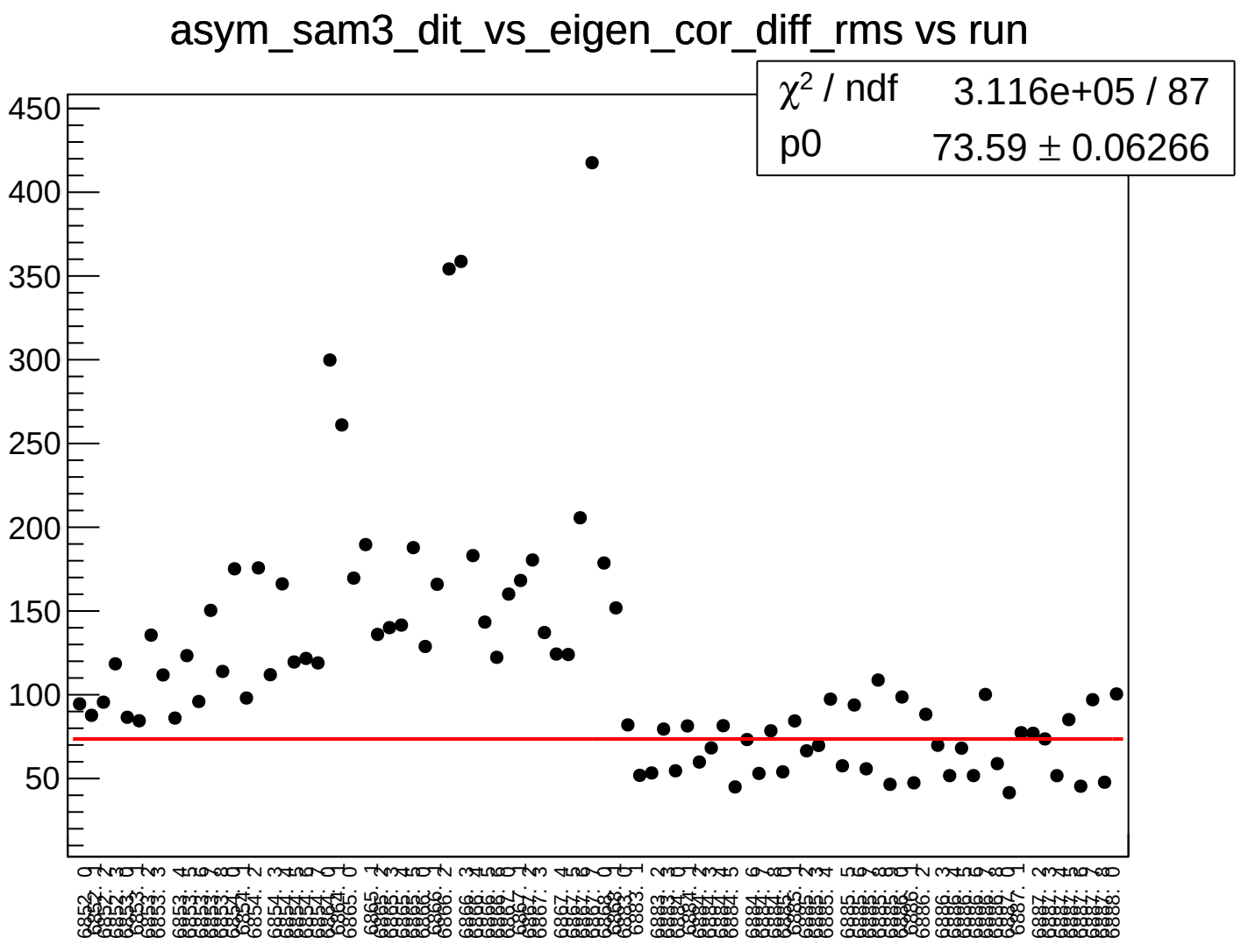

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.141e+06 / 87
p0 2.193e−11 ± 2.957e−14
0.1
0.08
0.06
0.04
0.02
0

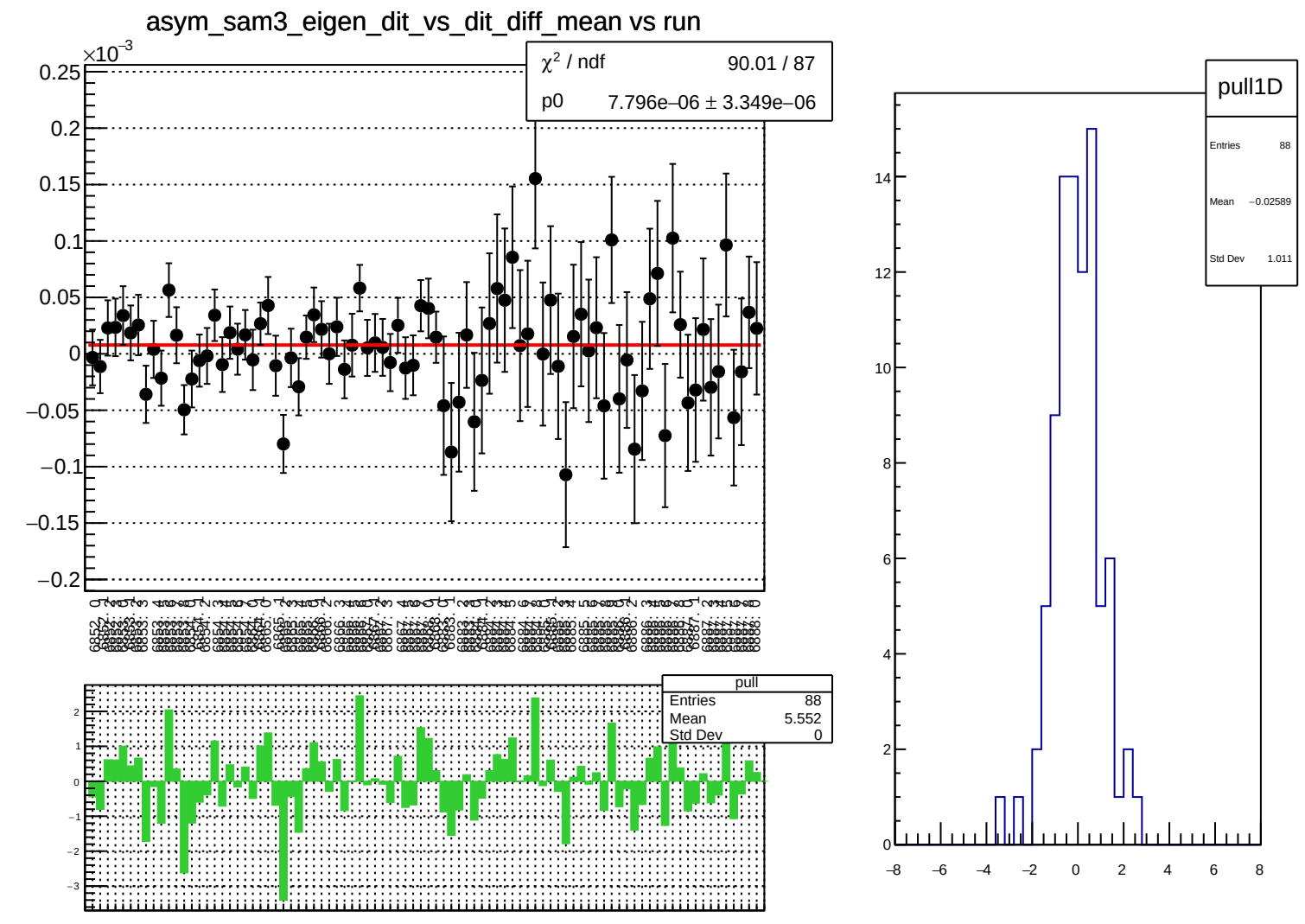

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 87.17 / 87
p0 0.1704 ± 0.08862
pull
Entries 88
Mean −32.18
Std Dev 0
pull1D
Entries 88
Mean 0.06039
Std Dev 0.9935

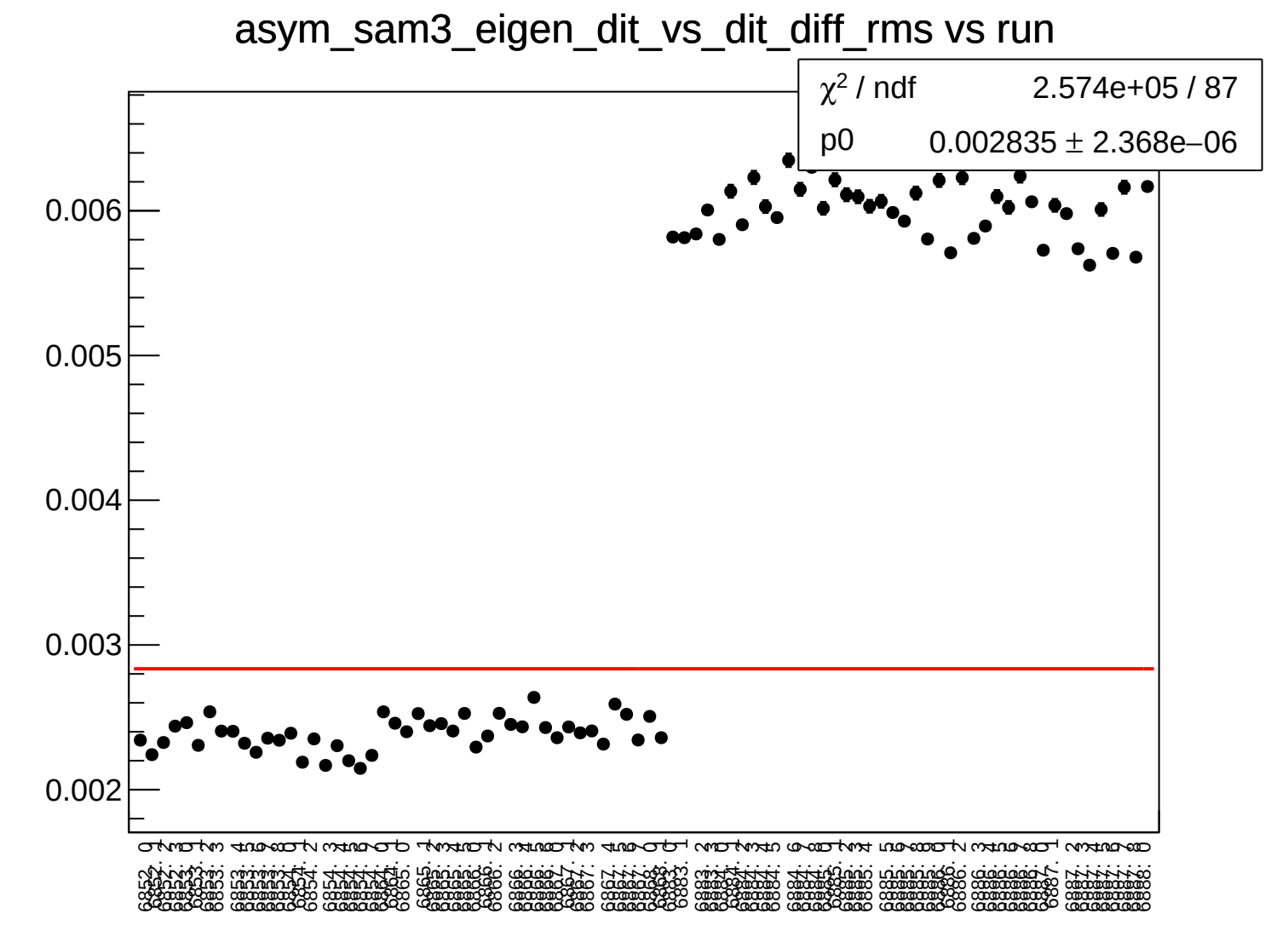

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 3.116e+05 / 87
p0 73.59 ± 0.06266
450
400
350
300
250
200
150
100
50

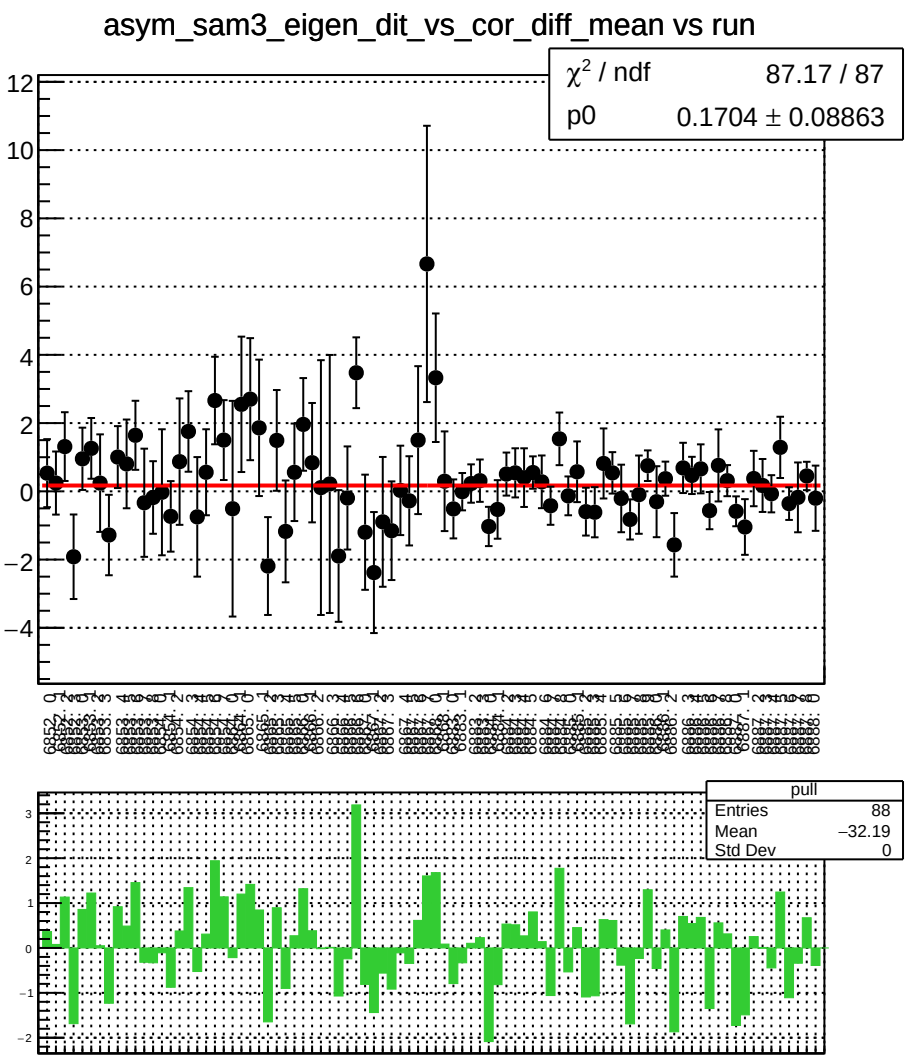

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.17 / 87
p0 0.1704 ± 0.08862
pull
Entries 88
Mean −32.18
Std Dev 0

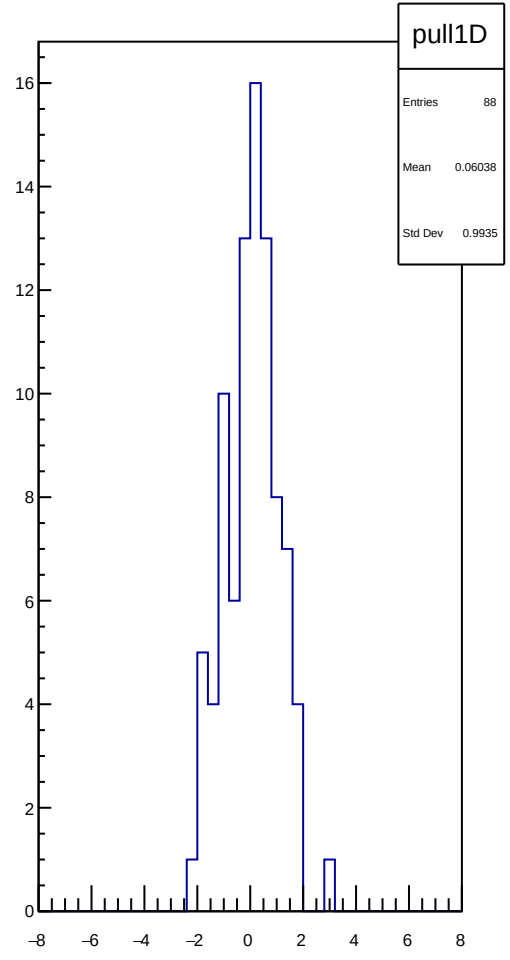

pull1D
Entries 88
Mean 0.06039
Std Dev 0.9935

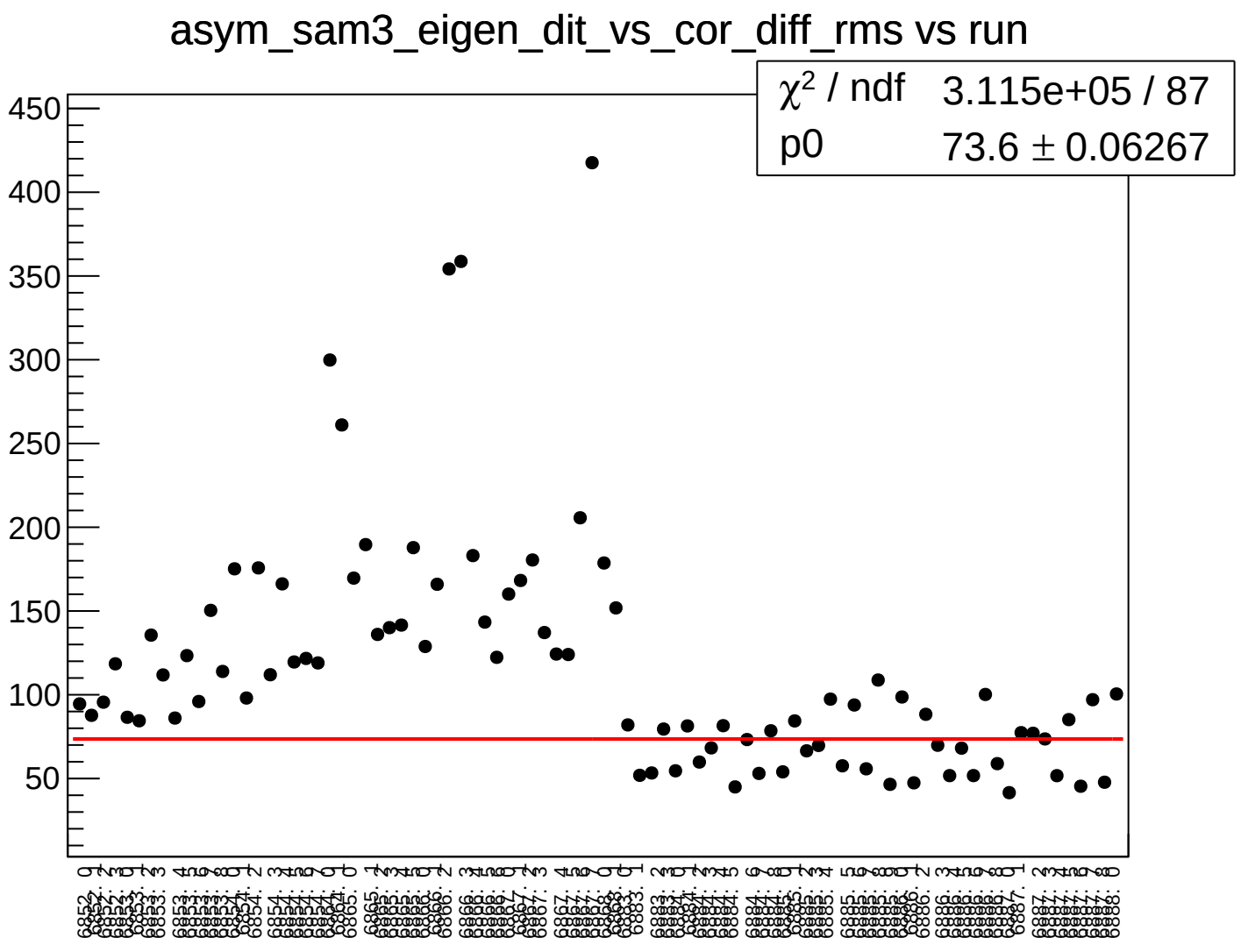

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.116e+05 / 87
p0 73.59 ± 0.06266
450
400
350
300
250
200
150
100
50

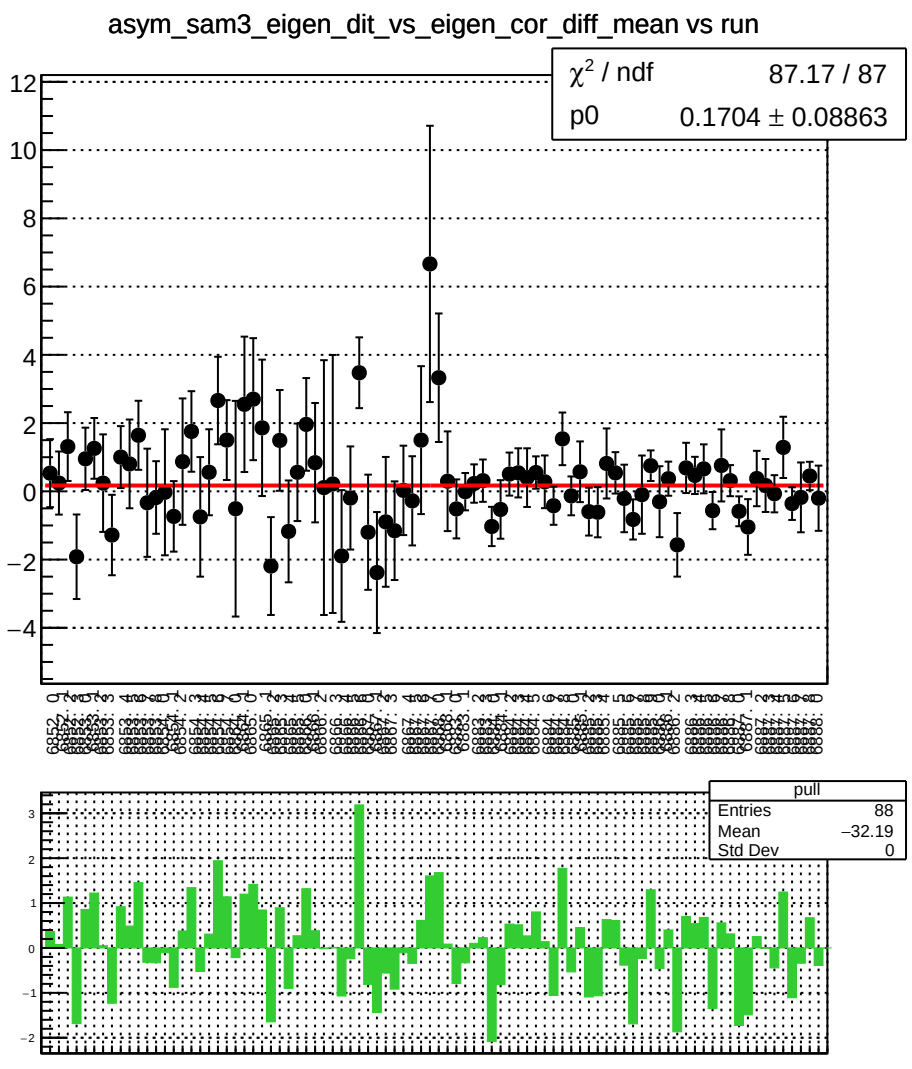

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.01 / 87
p0 7.796e−06 ± 3.349e−06
pull
Entries 88
Mean 5.552
Std Dev 0
pull1D
Entries 88
Mean −0.02589
Std Dev 1.011

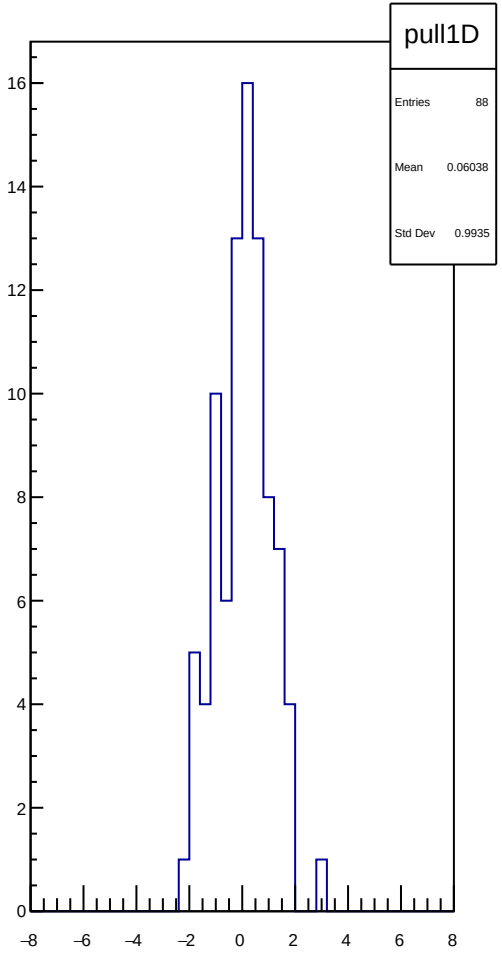

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.574e+05 / 87
p0 0.002835 ± 2.368e−06
0.006
0.005
0.004
0.003
0.002

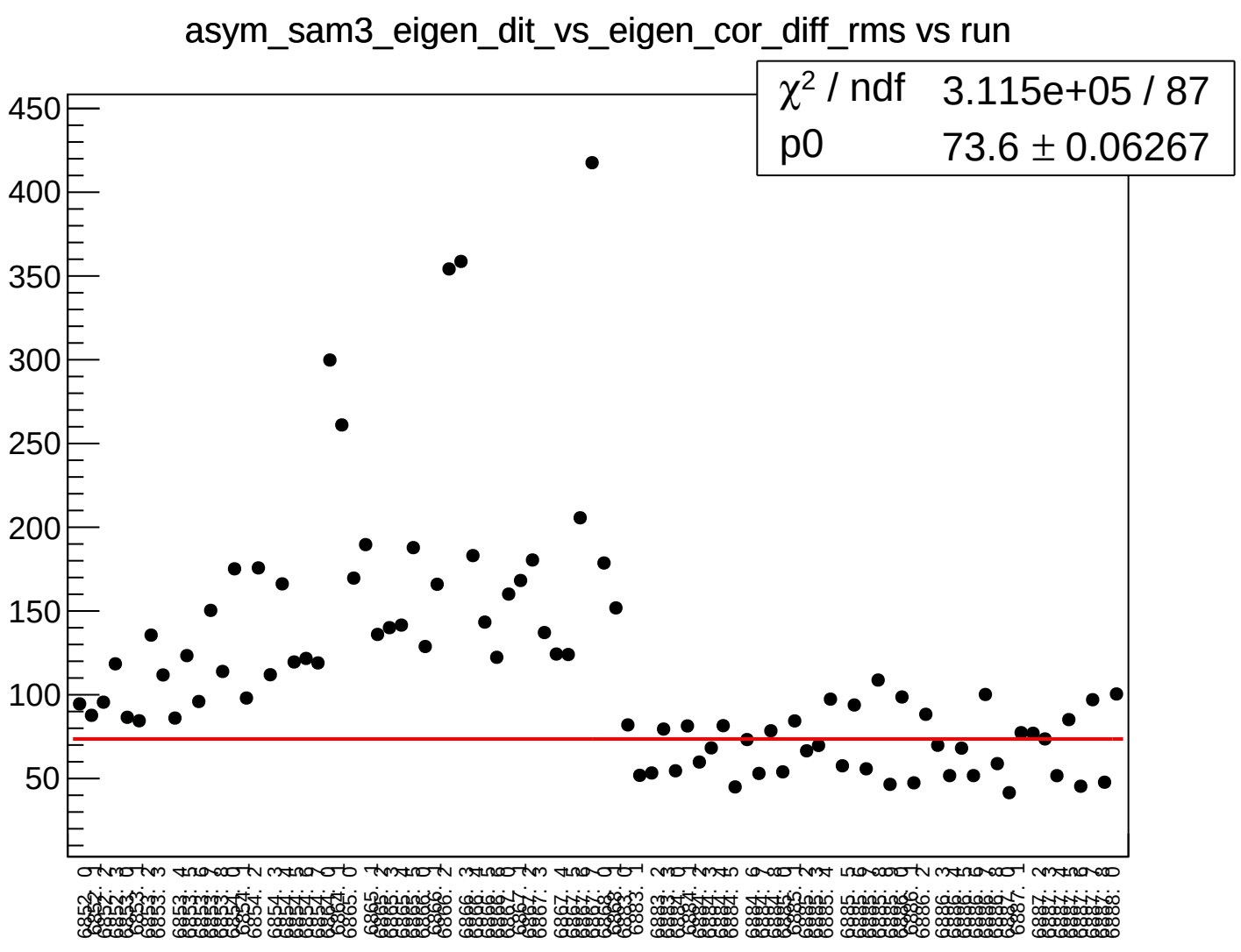

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.17 / 87
p0 0.1704 ± 0.08863
pull
Entries 88
Mean −32.19
Std Dev 0

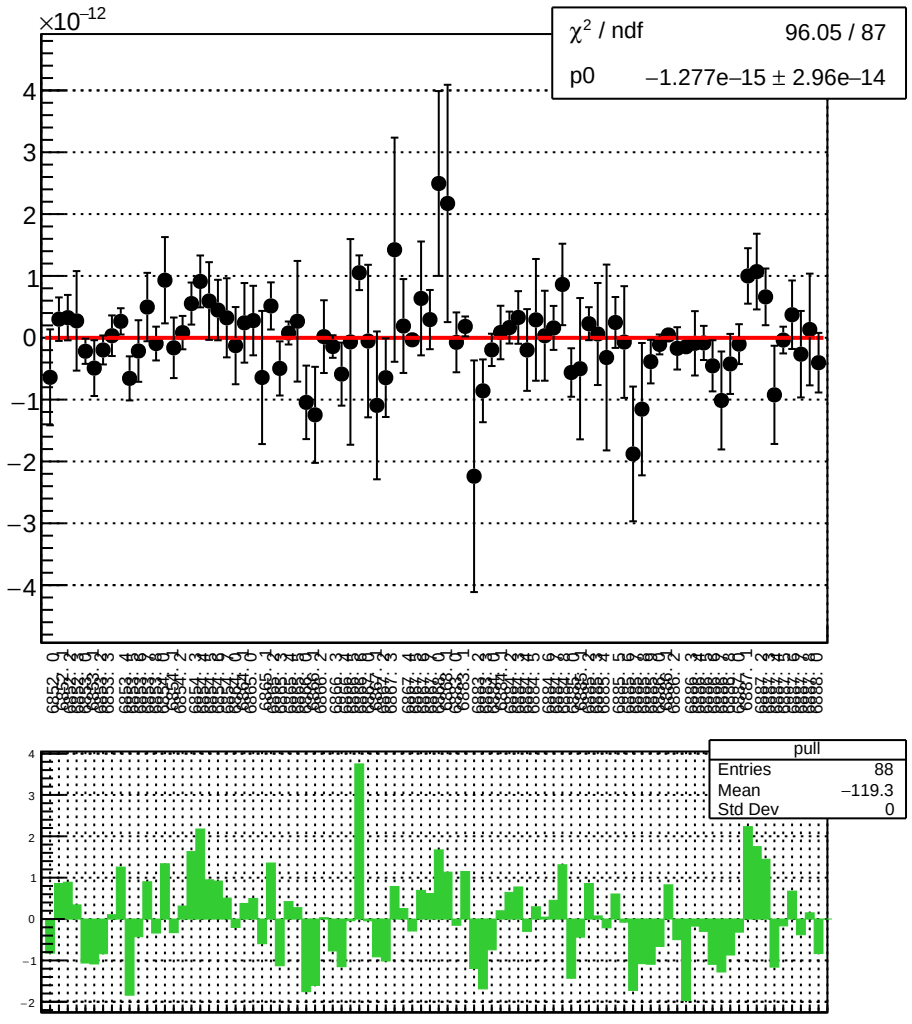

pull1D
Entries 88
Mean 0.06038
Std Dev 0.9935

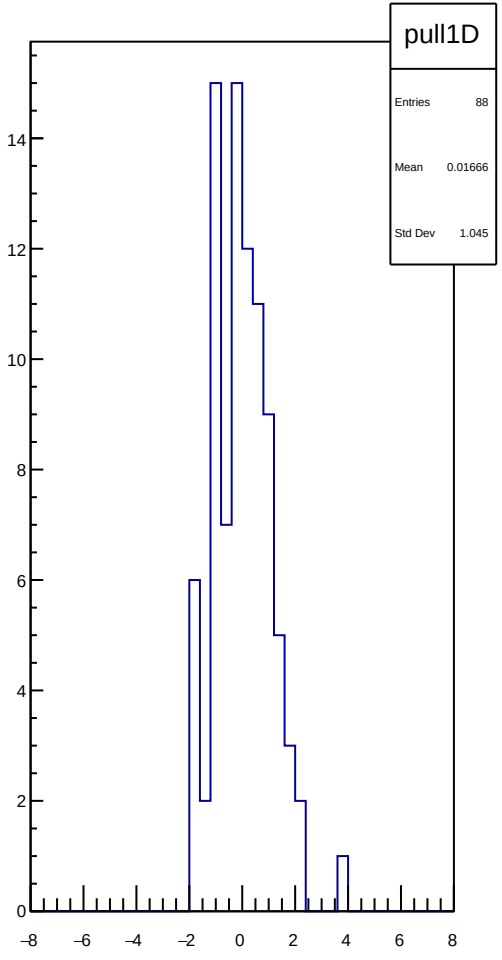

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.115e+05 / 87
p0 73.6 ± 0.06267
450
400
350
300
250
200
150
100
50

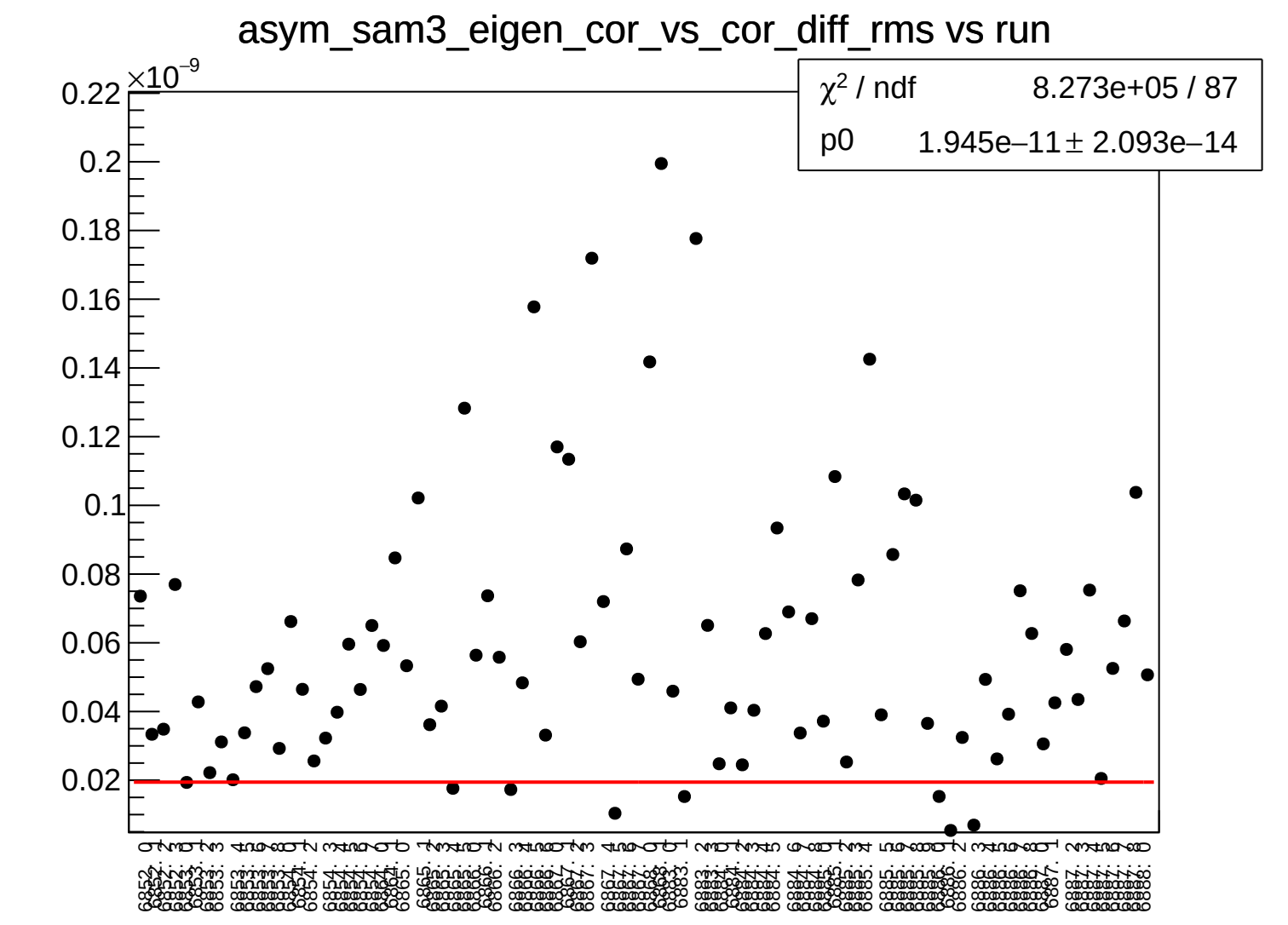

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.17 / 87
p0 0.1704 ± 0.08863
pull
Entries 88
Mean −32.19
Std Dev 0

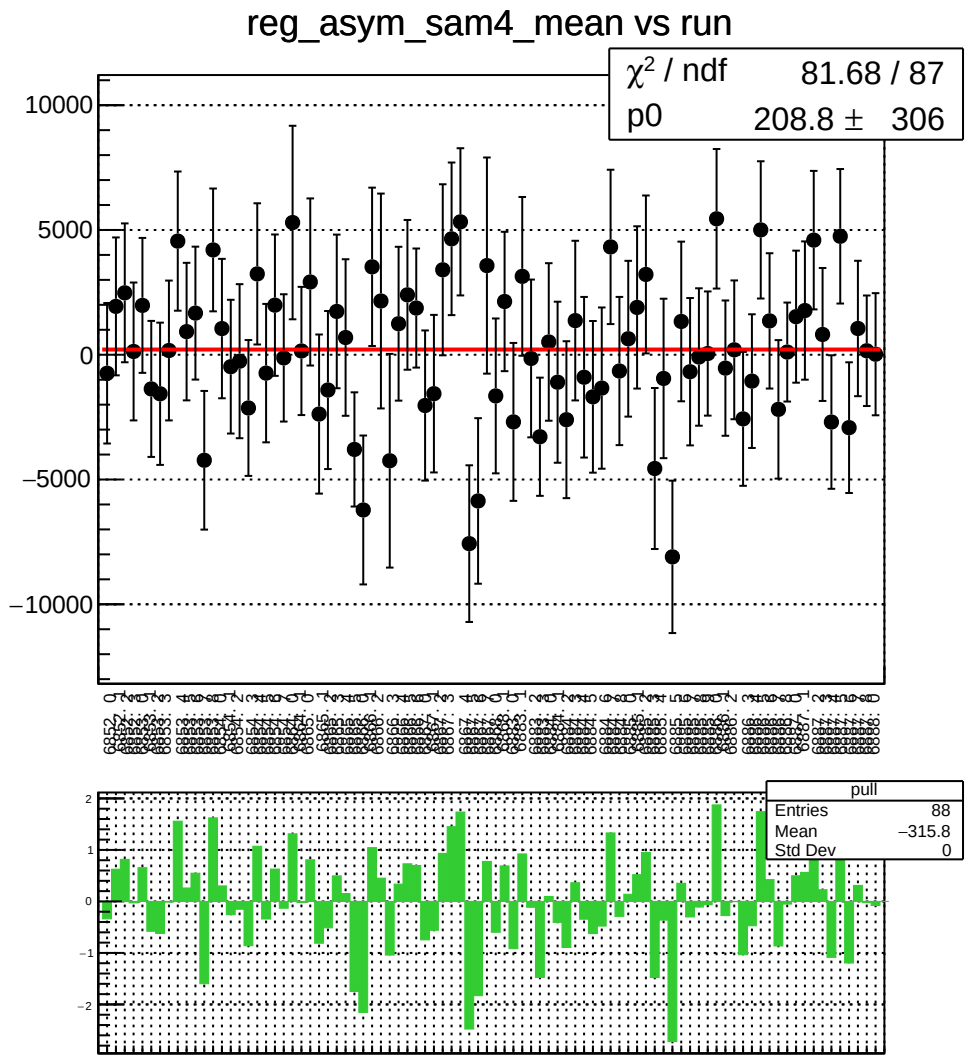

pull1D
Entries 88
Mean 0.06038
Std Dev 0.9935

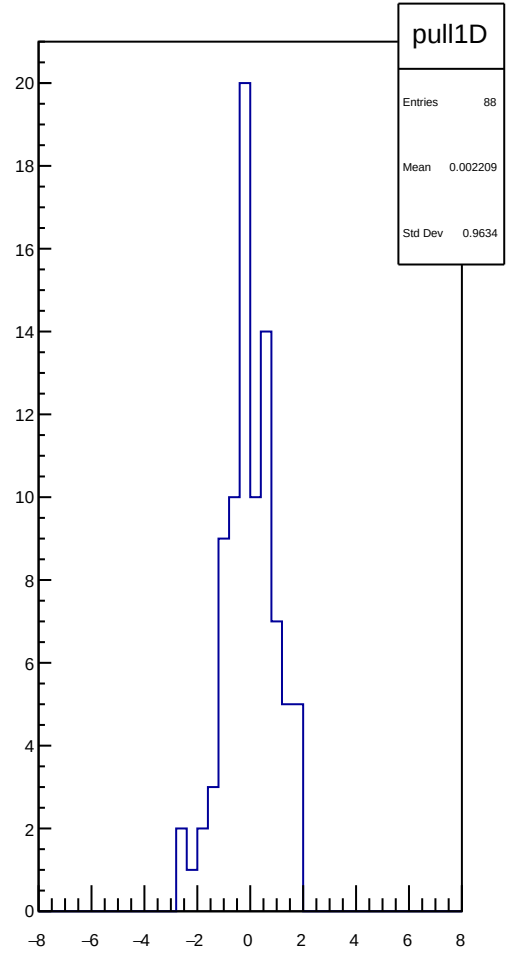

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.115e+05 / 87
p0 73.6 ± 0.06267
450
400
350
300
250
200
150
100
50

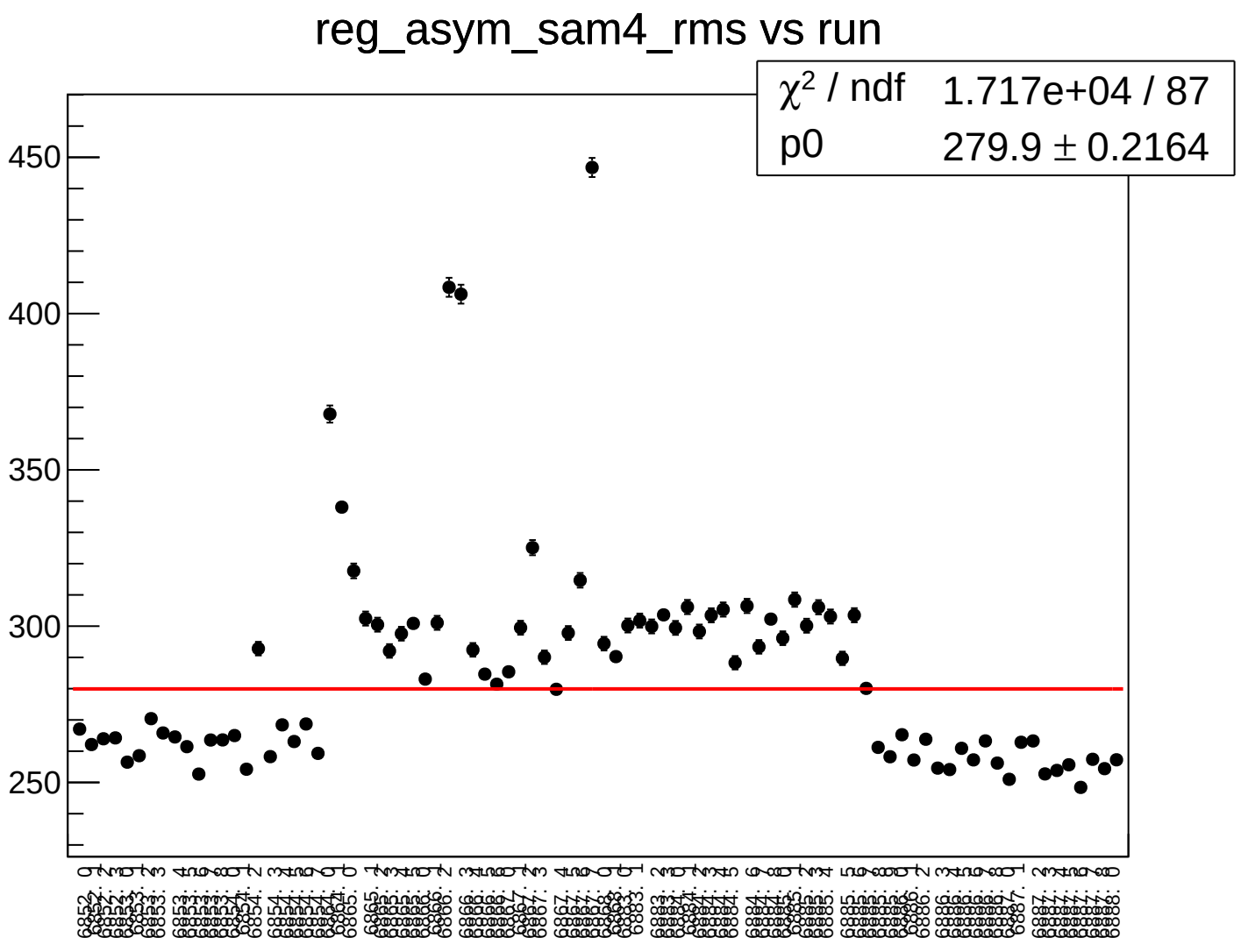

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.05 / 87
p0 −1.277e−15 ± 2.96e−14
pull
Entries 88
Mean −119.3
Std Dev 0

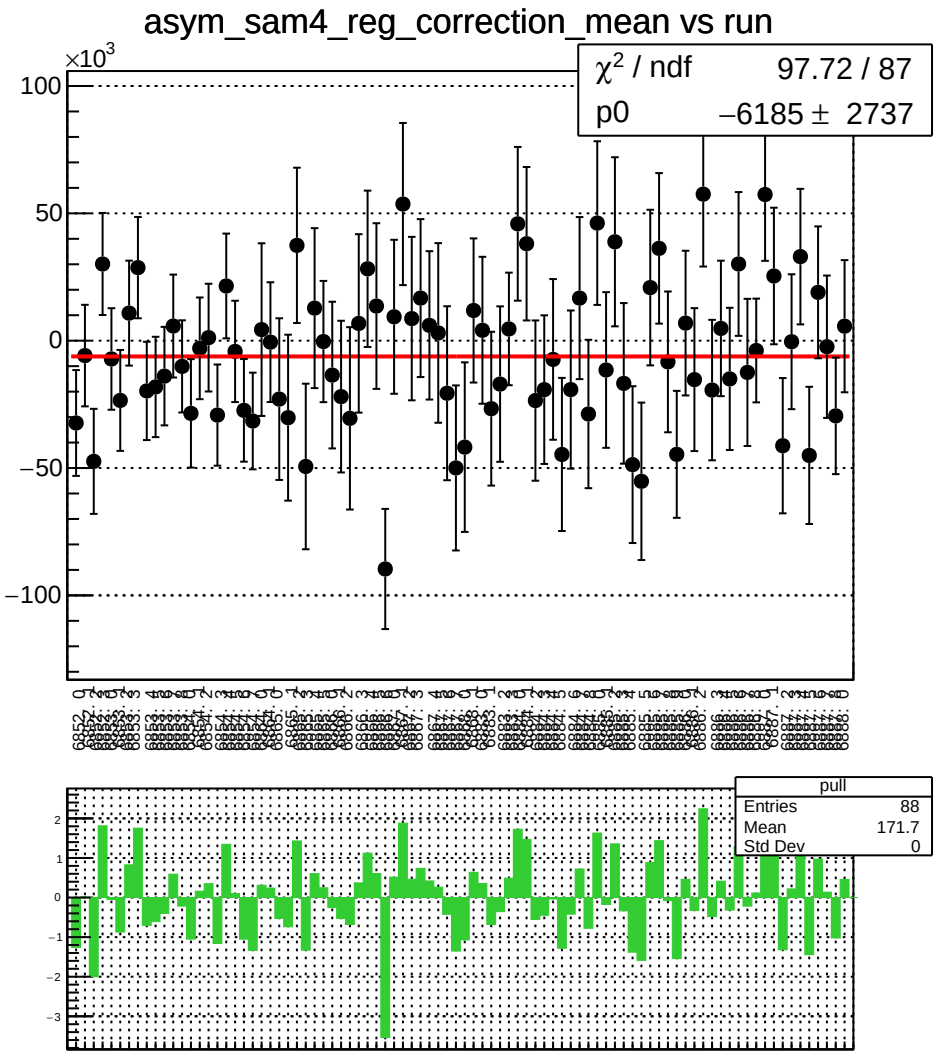

pull1D
Entries 88
Mean 0.01666
Std Dev 1.045

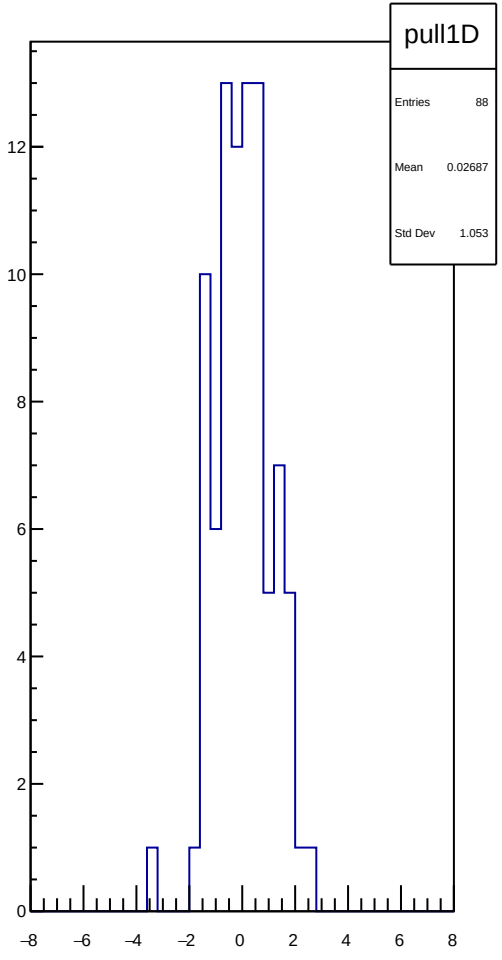

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 8.273e+05 / 87
p0 1.945e−11 ± 2.093e−14

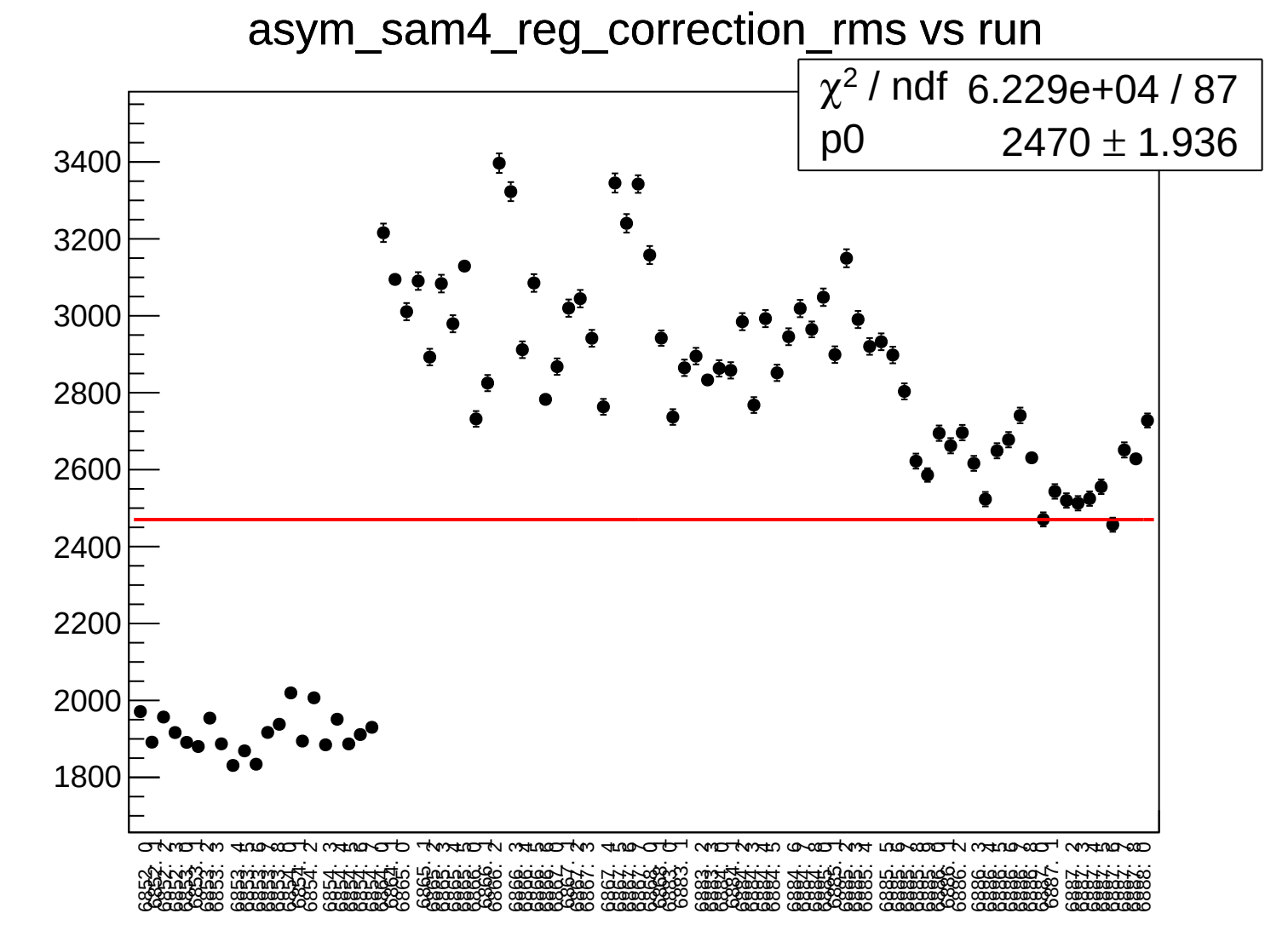

reg_asym_sam4_mean vs run
χ² / ndf 81.68 / 87
p0 208.8 ± 306
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −315.8
Std Dev 0
2
1
0
−1
−2

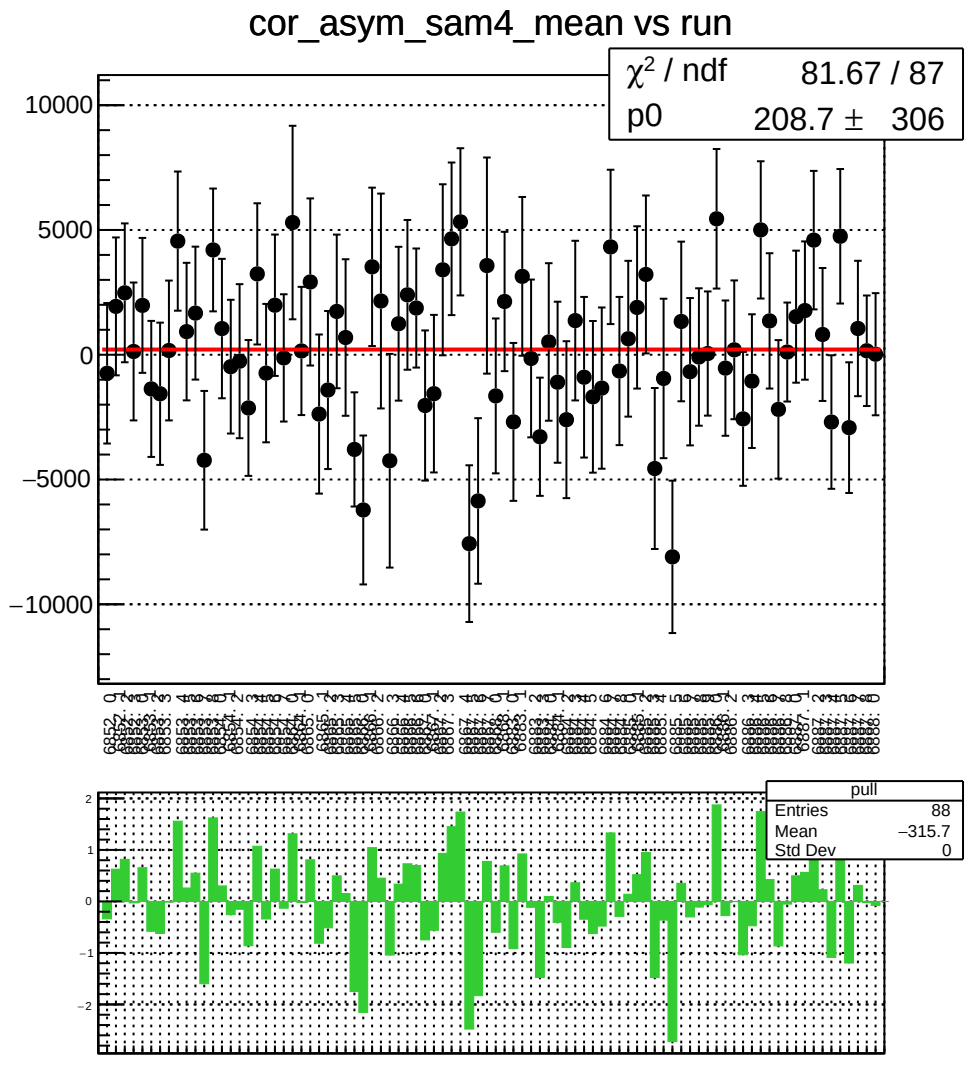

pull1D
Entries 88
Mean 0.002209
Std Dev 0.9634
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

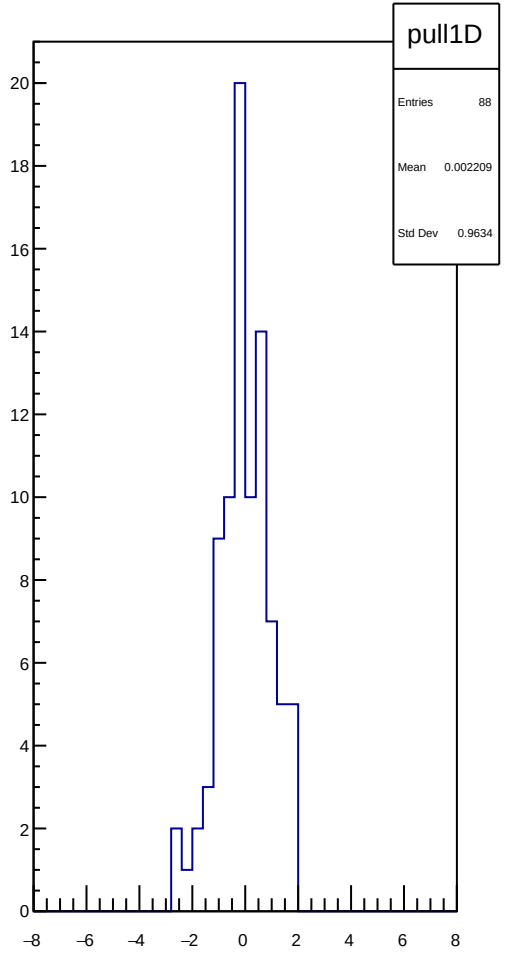

reg_asym_sam4_rms vs run
χ² / ndf 1.717e+04 / 87
p0 279.9 ± 0.2164
450
400
350
300
250

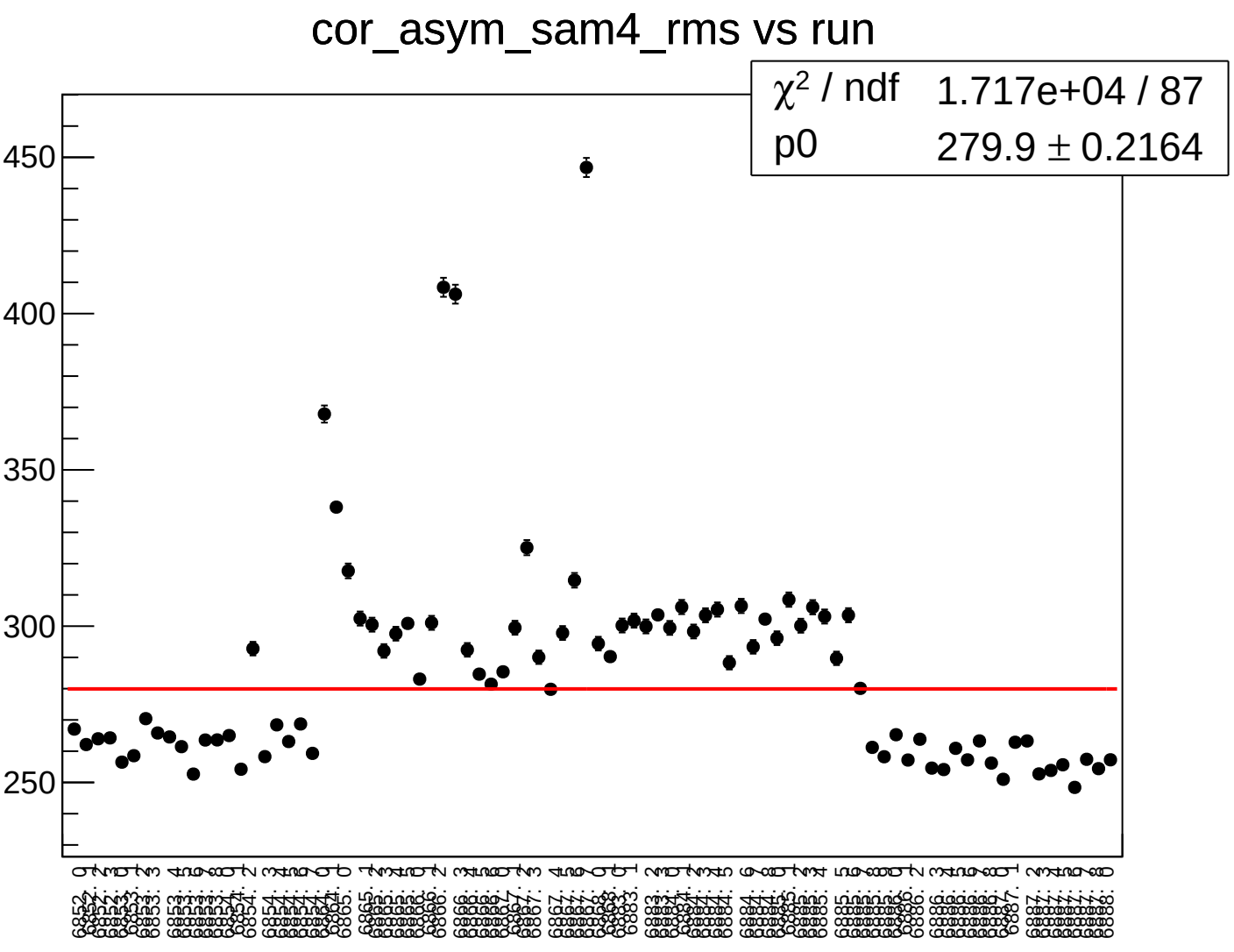

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 97.72 / 87
p0 −6185 ± 2737
100
50
0
−50
−100
pull
Entries 88
Mean 171.7
Std Dev 0
2
1
0
−1
−2
−3

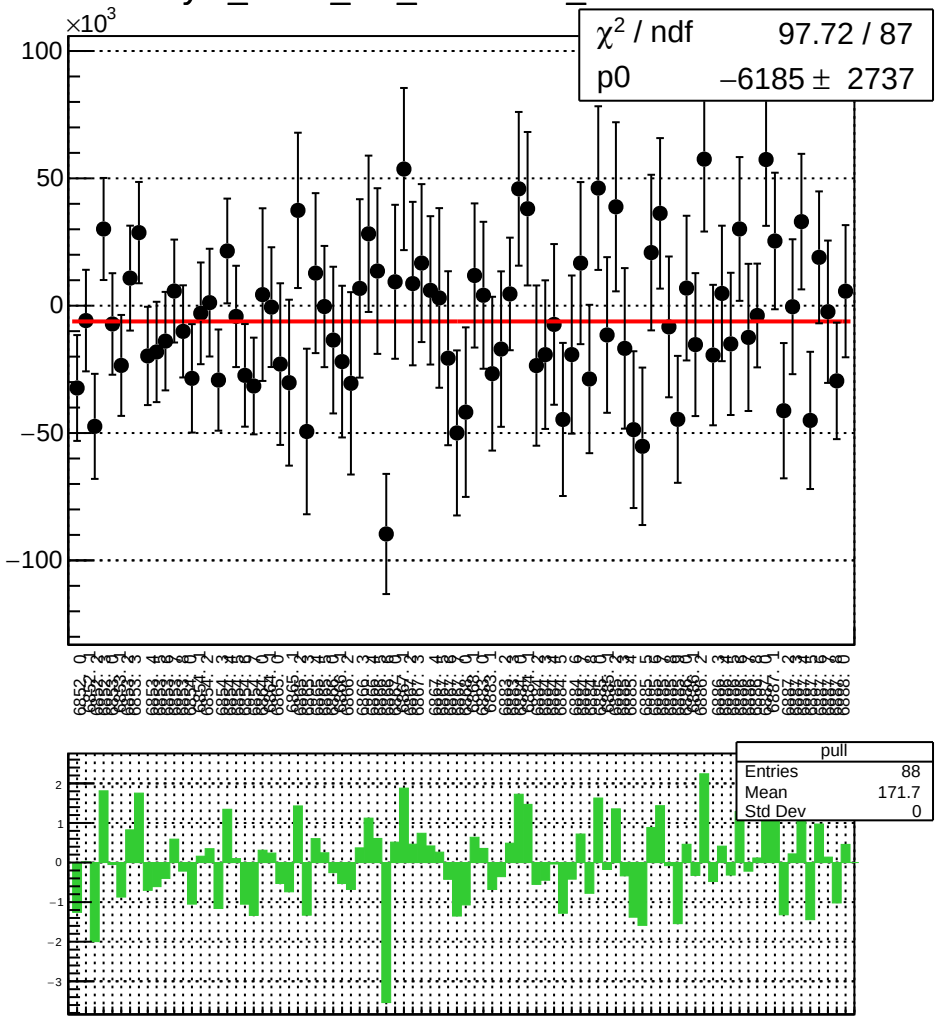

pull1D
Entries 88
Mean 0.02687
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

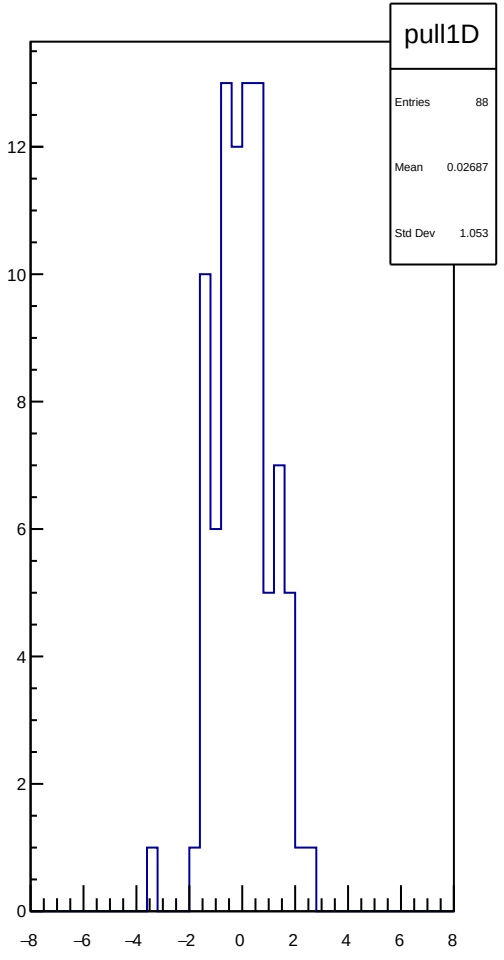

asym_sam4_reg_correction_rms vs run
χ² / ndf 6.229e+04 / 87
p0 2470 ± 1.936
3400
3200
3000
2800
2600
2400
2200
2000
1800

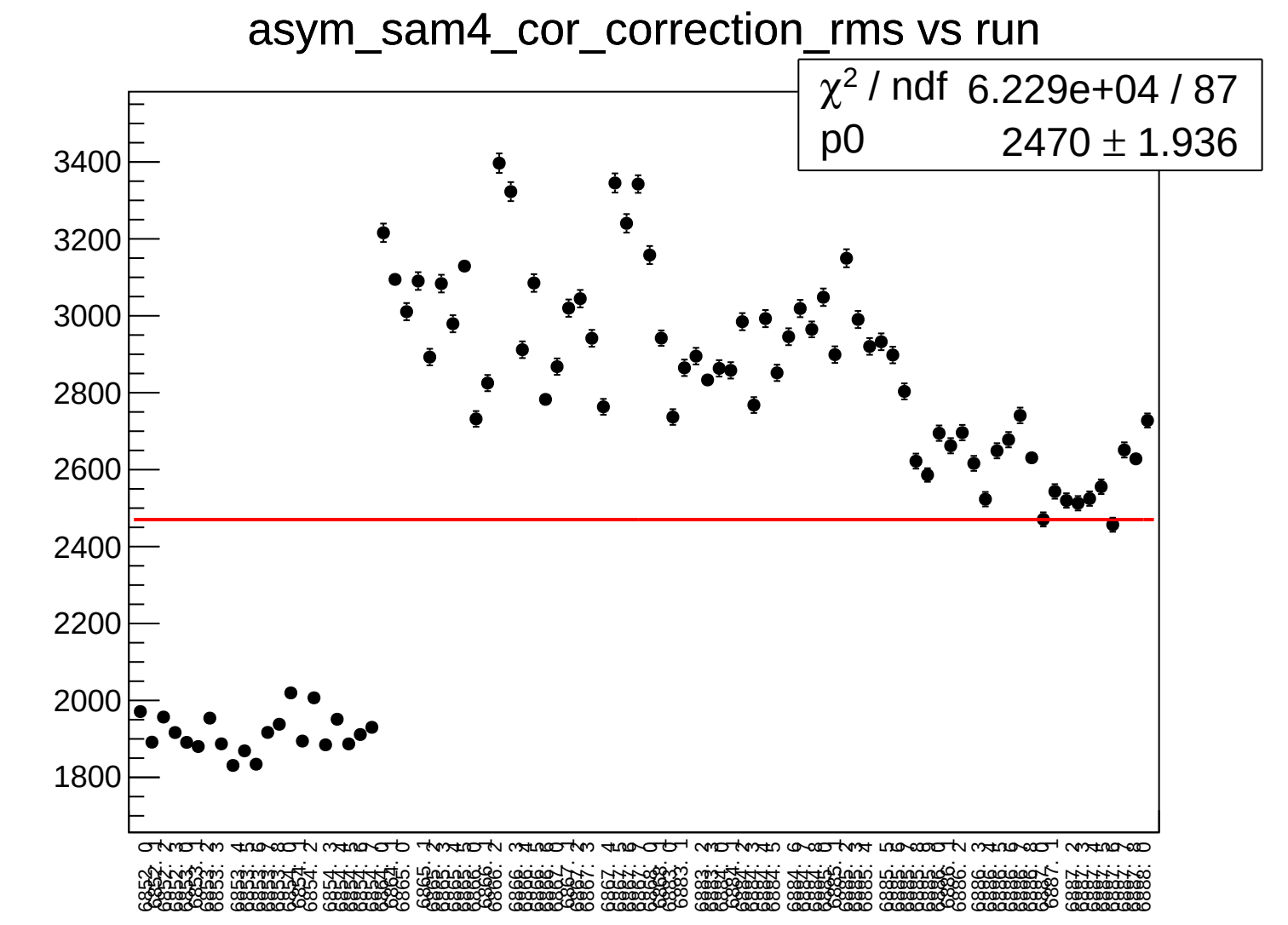

cor_asym_sam4_mean vs run
χ² / ndf 81.67 / 87
p0 208.7 ± 306
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −315.7
Std Dev 0
2
1
0
−1
−2

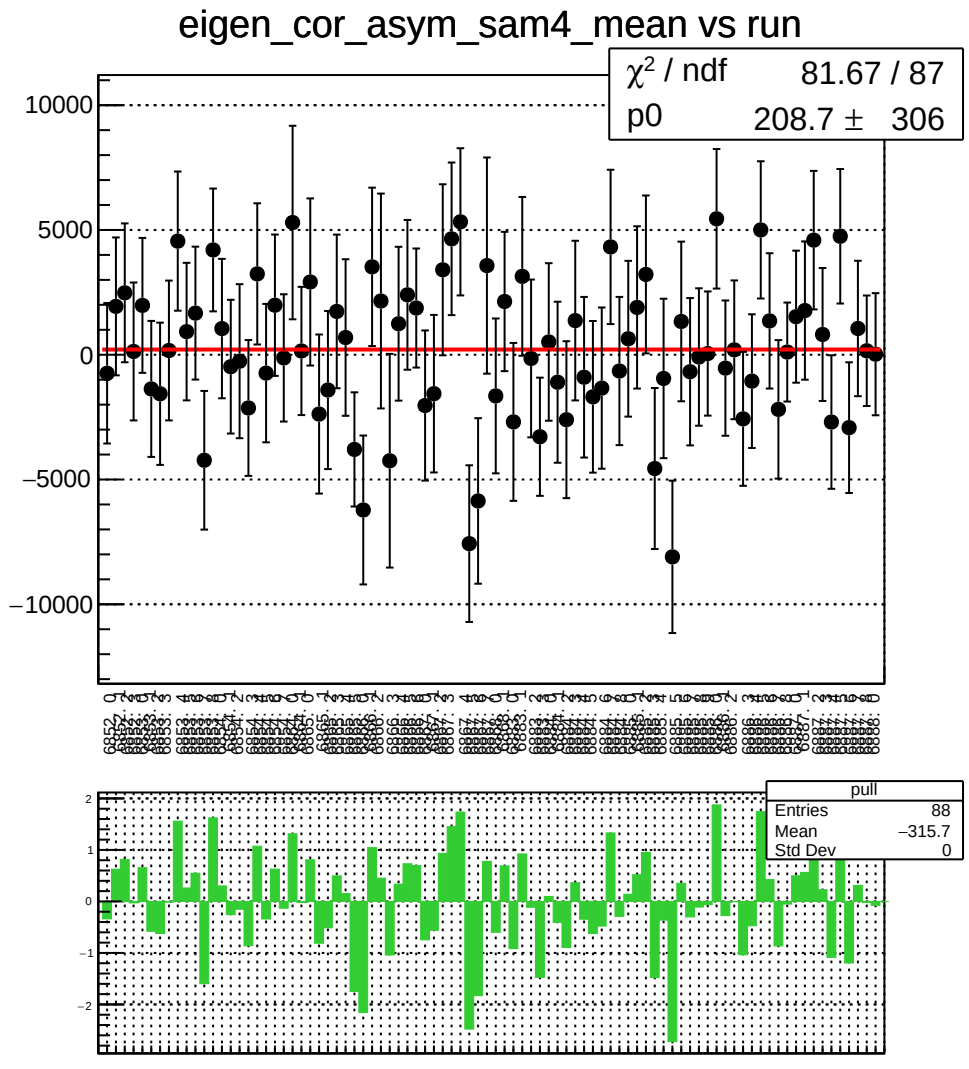

pull1D
Entries 88
Mean 0.002209
Std Dev 0.9634
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

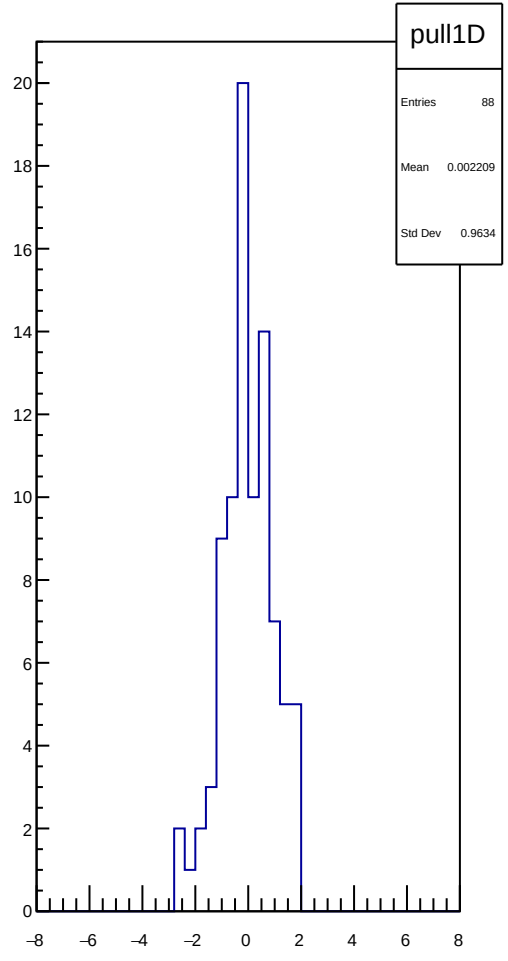

cor_asym_sam4_rms vs run
χ² / ndf 1.717e+04 / 87
p0 279.9 ± 0.2164
450
400
350
300
250

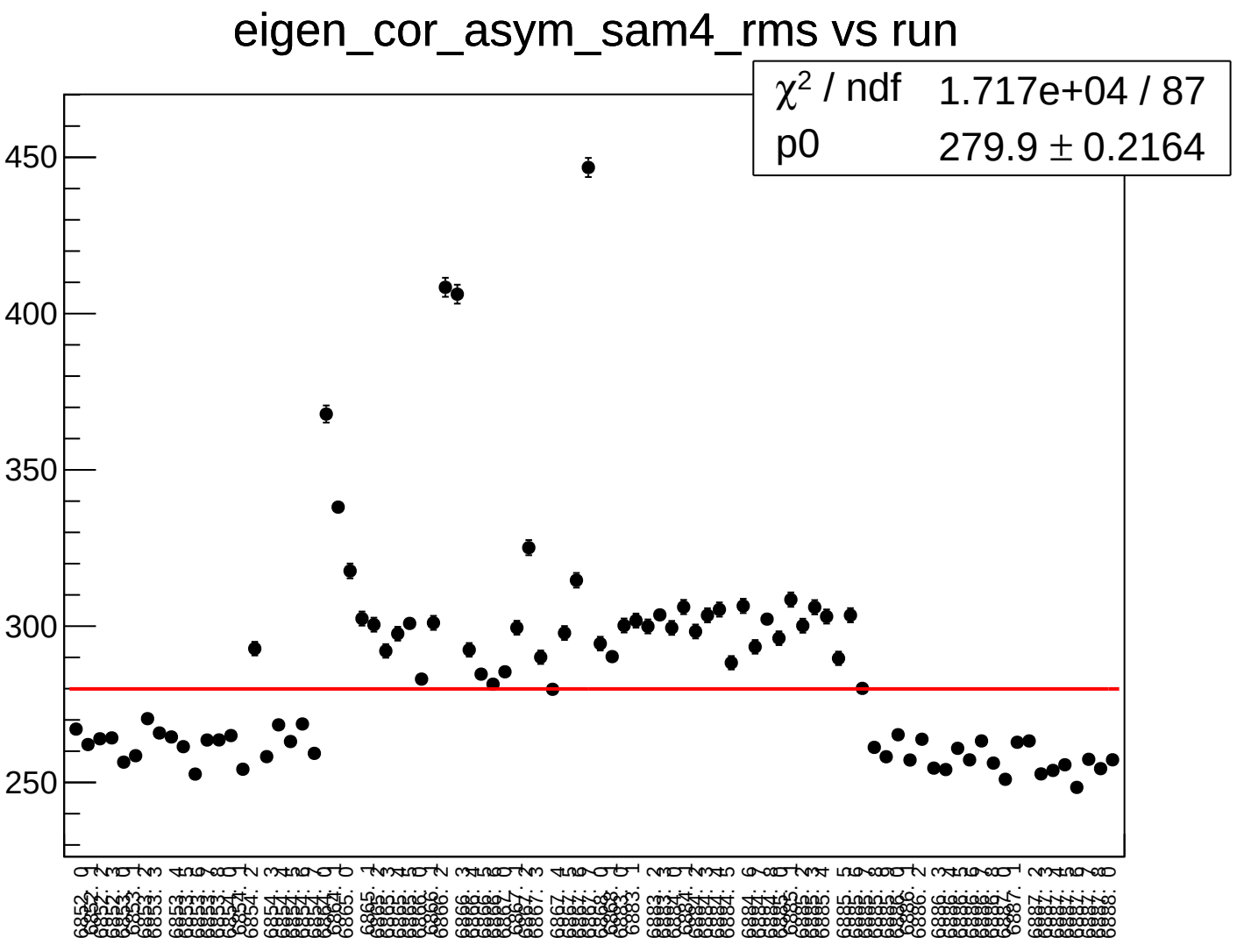

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 97.72 / 87
p0 −6185 ± 2737
100
50
0
−50
−100
pull
Entries 88
Mean 171.7
Std Dev 0
2
1
0
−1
−2
−3

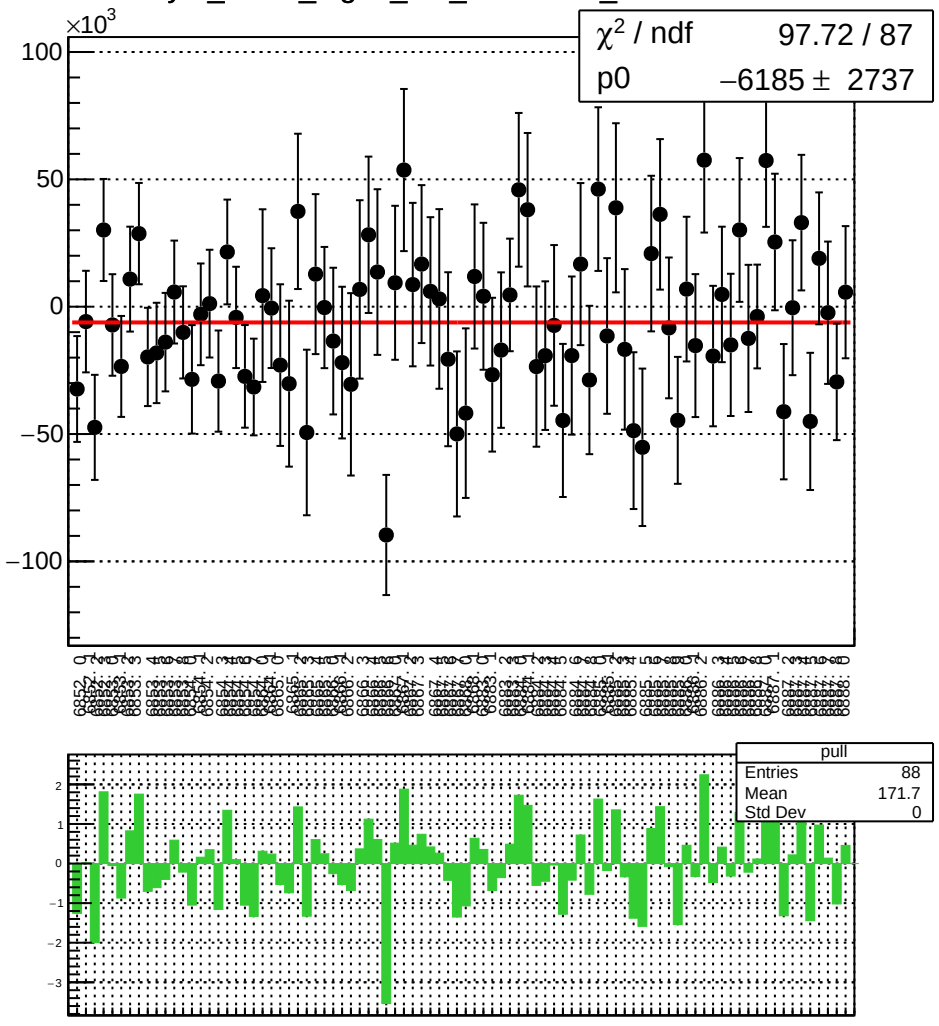

pull1D
Entries 88
Mean 0.02687
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

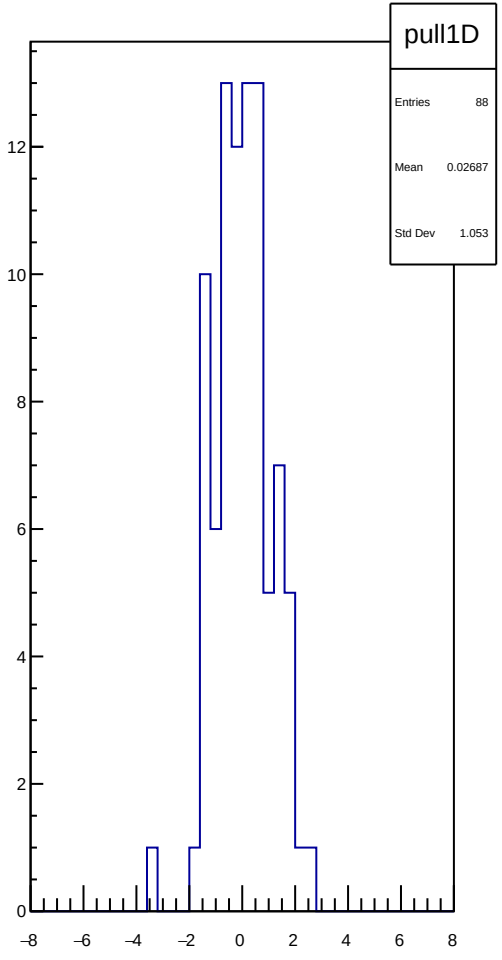

asym_sam4_cor_correction_rms vs run
χ² / ndf 6.229e+04 / 87
p0 2470 ± 1.936
3400
3200
3000
2800
2600
2400
2200
2000
1800

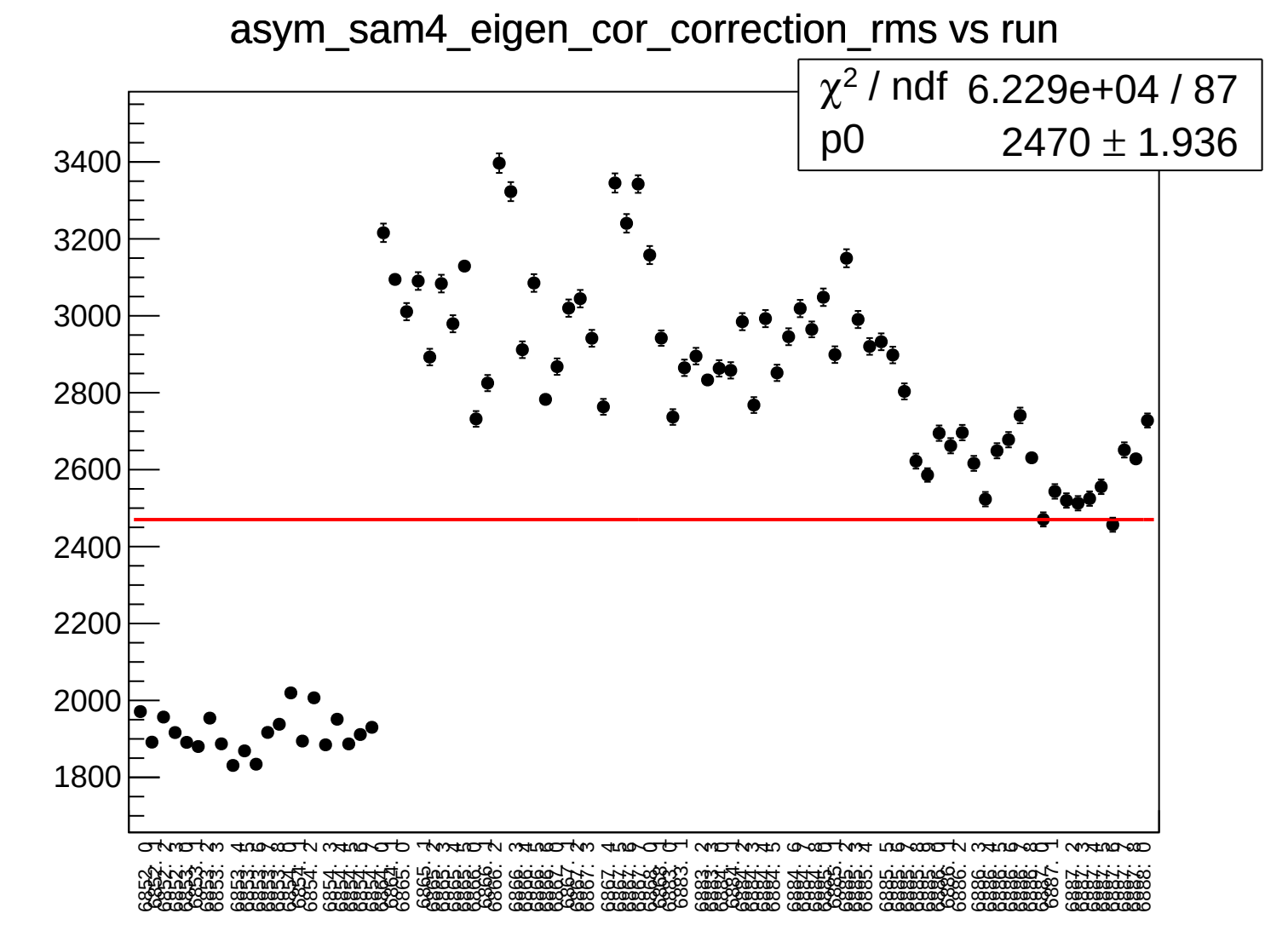

eigen_cor_asym_sam4_mean vs run
χ² / ndf 81.67 / 87
p0 208.7 ± 306
10000
5000
0
−5000
−10000
pull
Entries 88
Mean −315.7
Std Dev 0
2
1
0
−1
−2

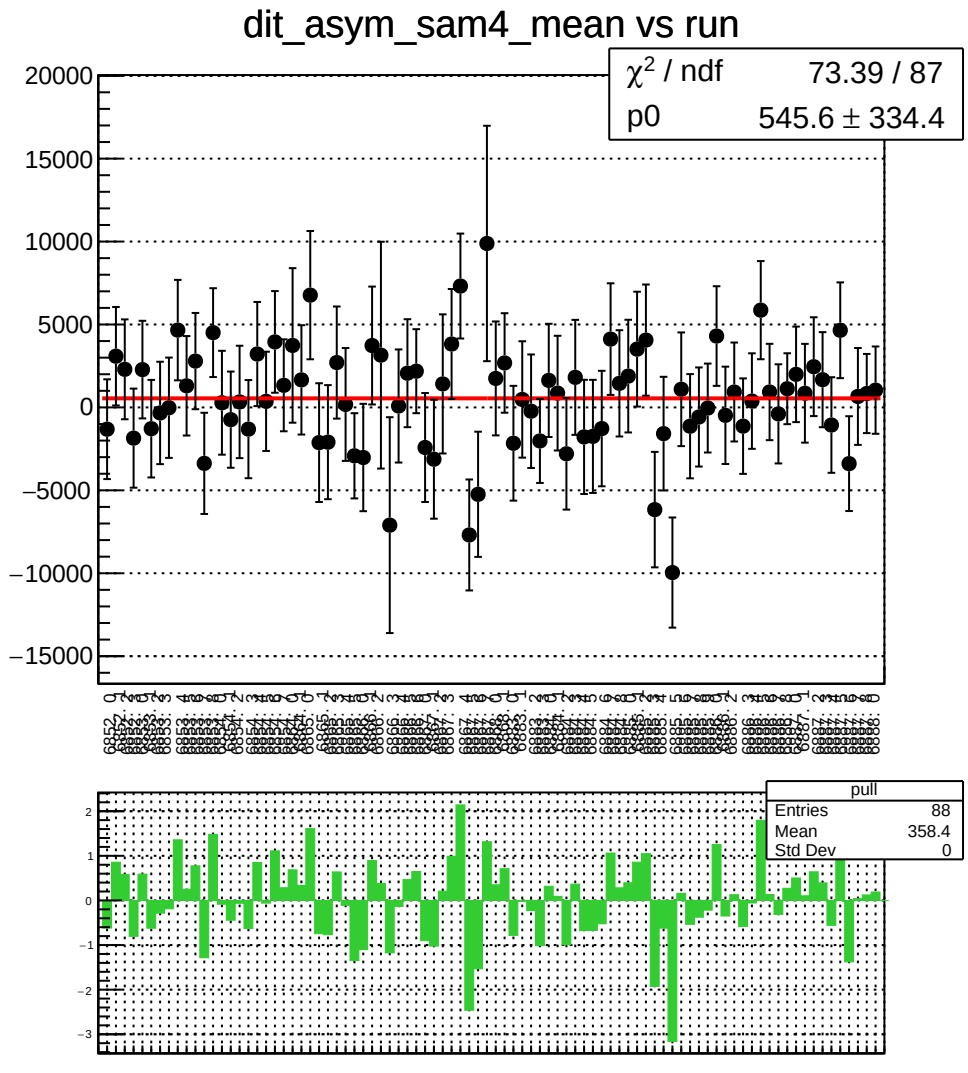

pull1D
Entries 88
Mean 0.002209
Std Dev 0.9634
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

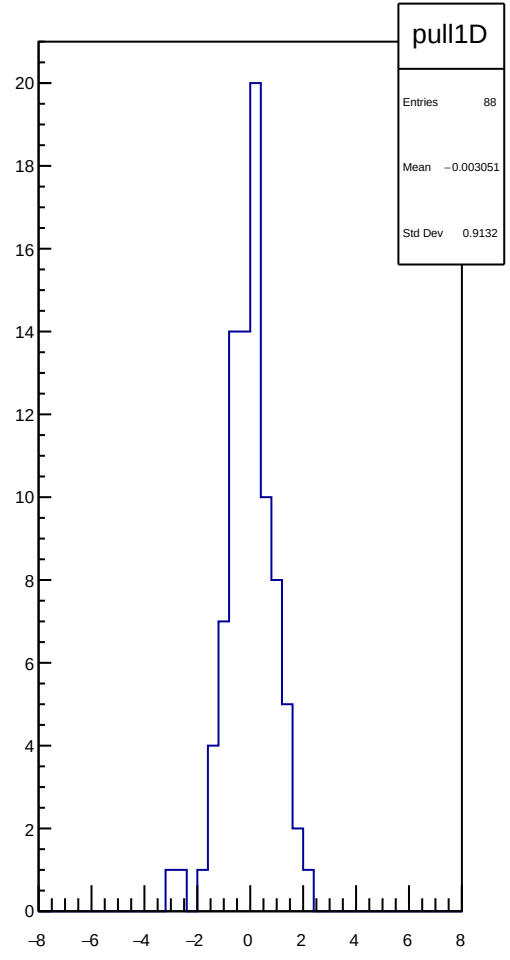

eigen_cor_asym_sam4_rms vs run
χ² / ndf 1.717e+04 / 87
p0 279.9 ± 0.2164
450
400
350
300
250

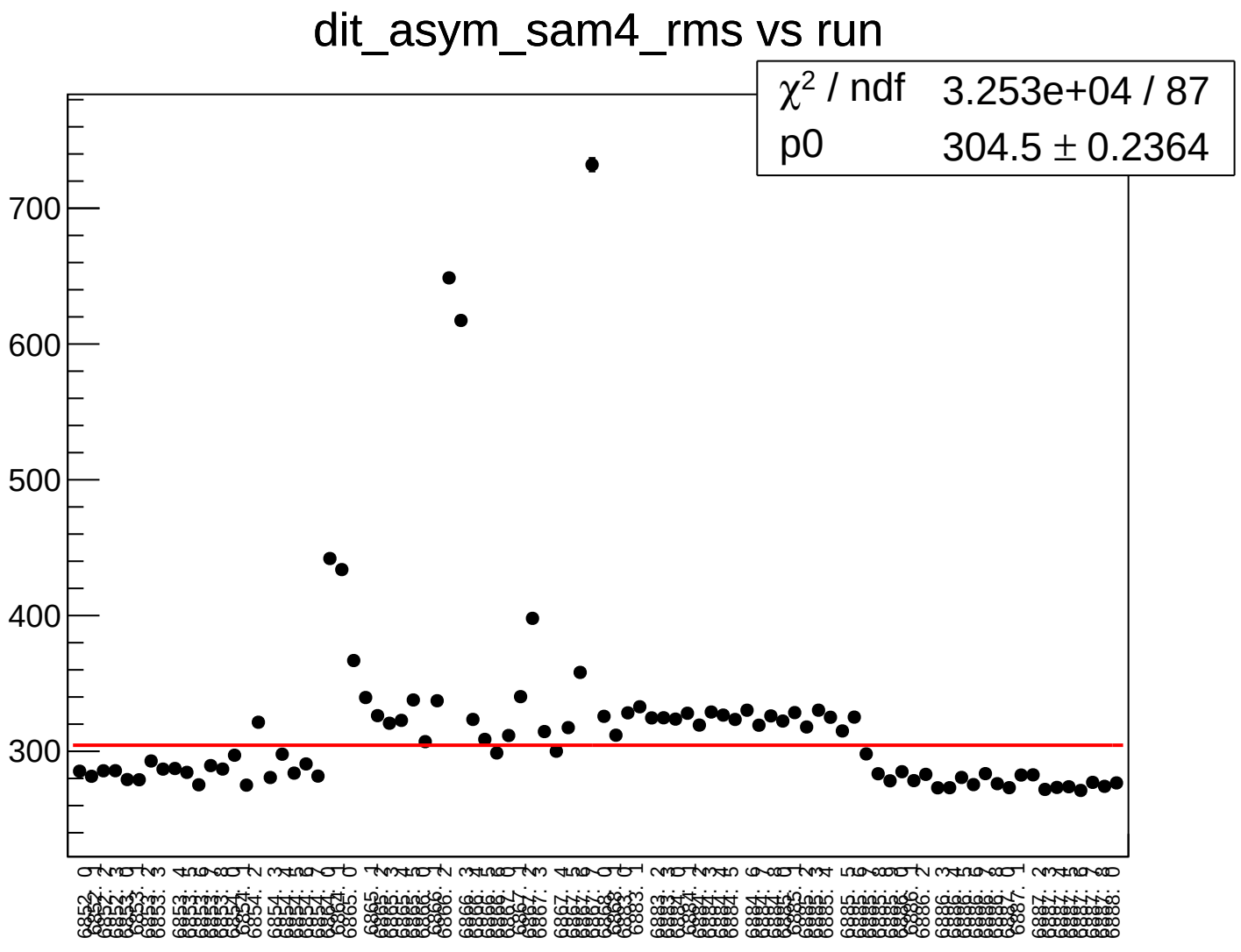

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.72 / 87
p0 −6185 ± 2737
100
50
0
−50
−100
pull
Entries 88
Mean 171.7
Std Dev 0
2
1
0
−1
−2
−3

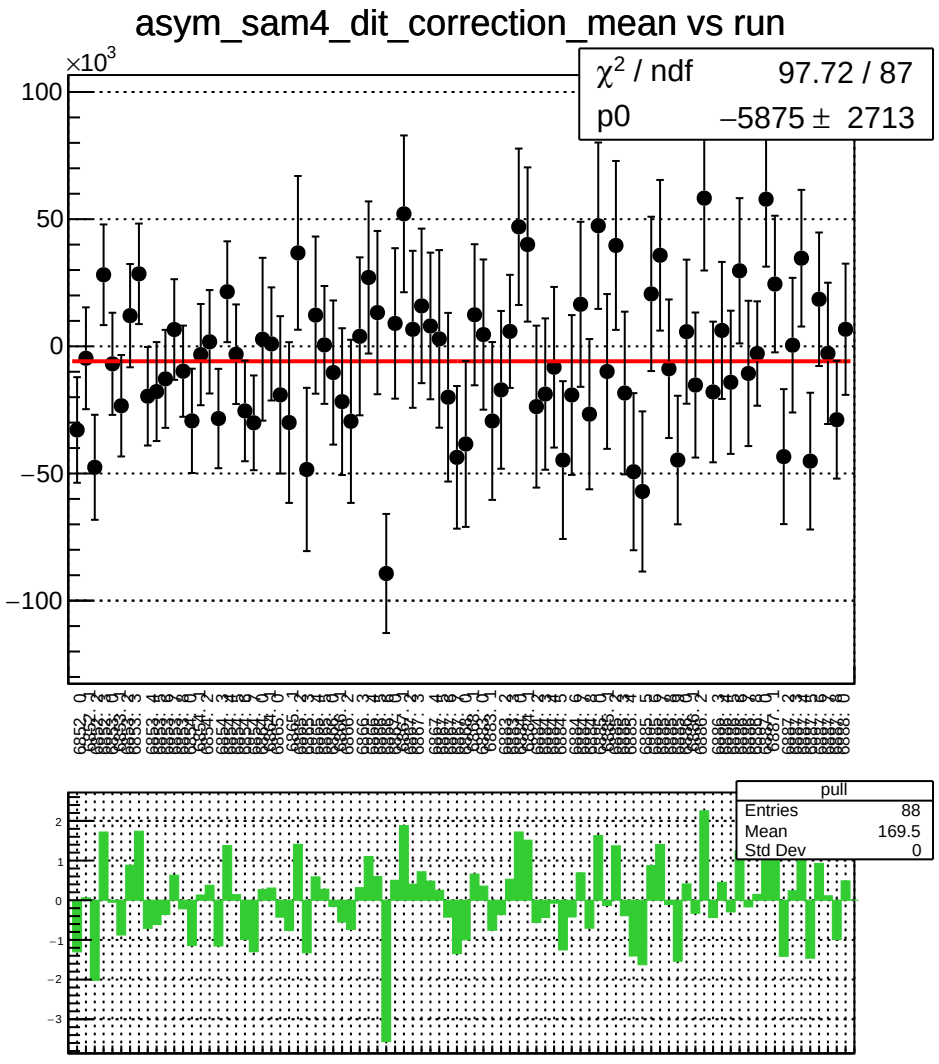

pull1D
Entries 88
Mean 0.02687
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

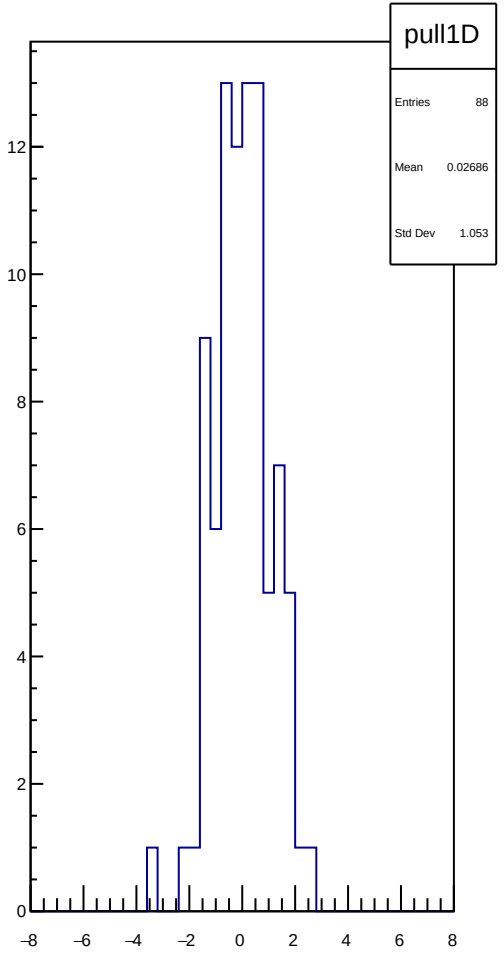

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 6.229e+04 / 87
p0 2470 ± 1.936
3400
3200
3000
2800
2600
2400
2200
2000
1800

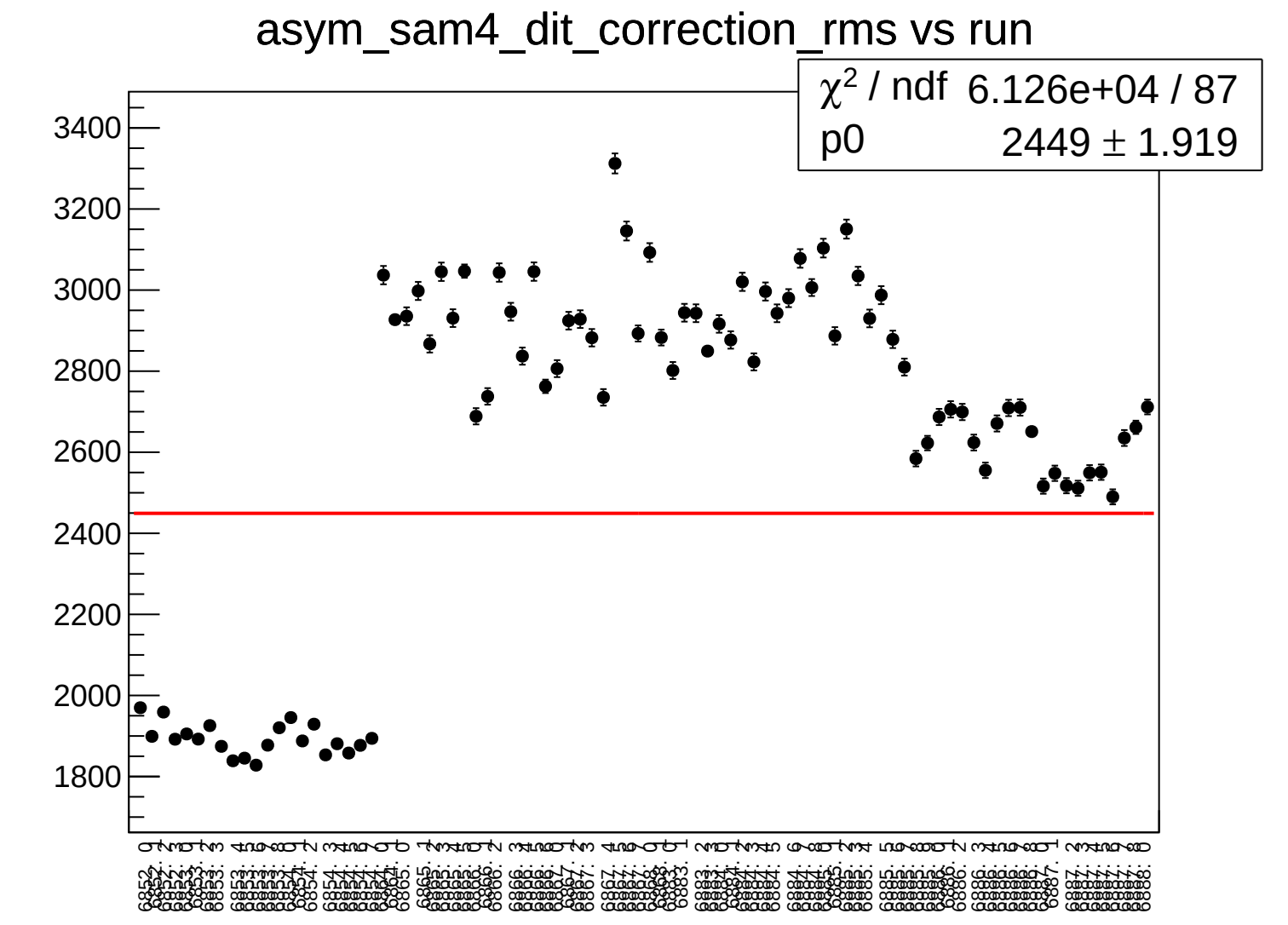

dit_asym_sam4_mean vs run
χ² / ndf 73.39 / 87
p0 545.6 ± 334.4
pull
Entries 88
Mean 358.4
Std Dev 0

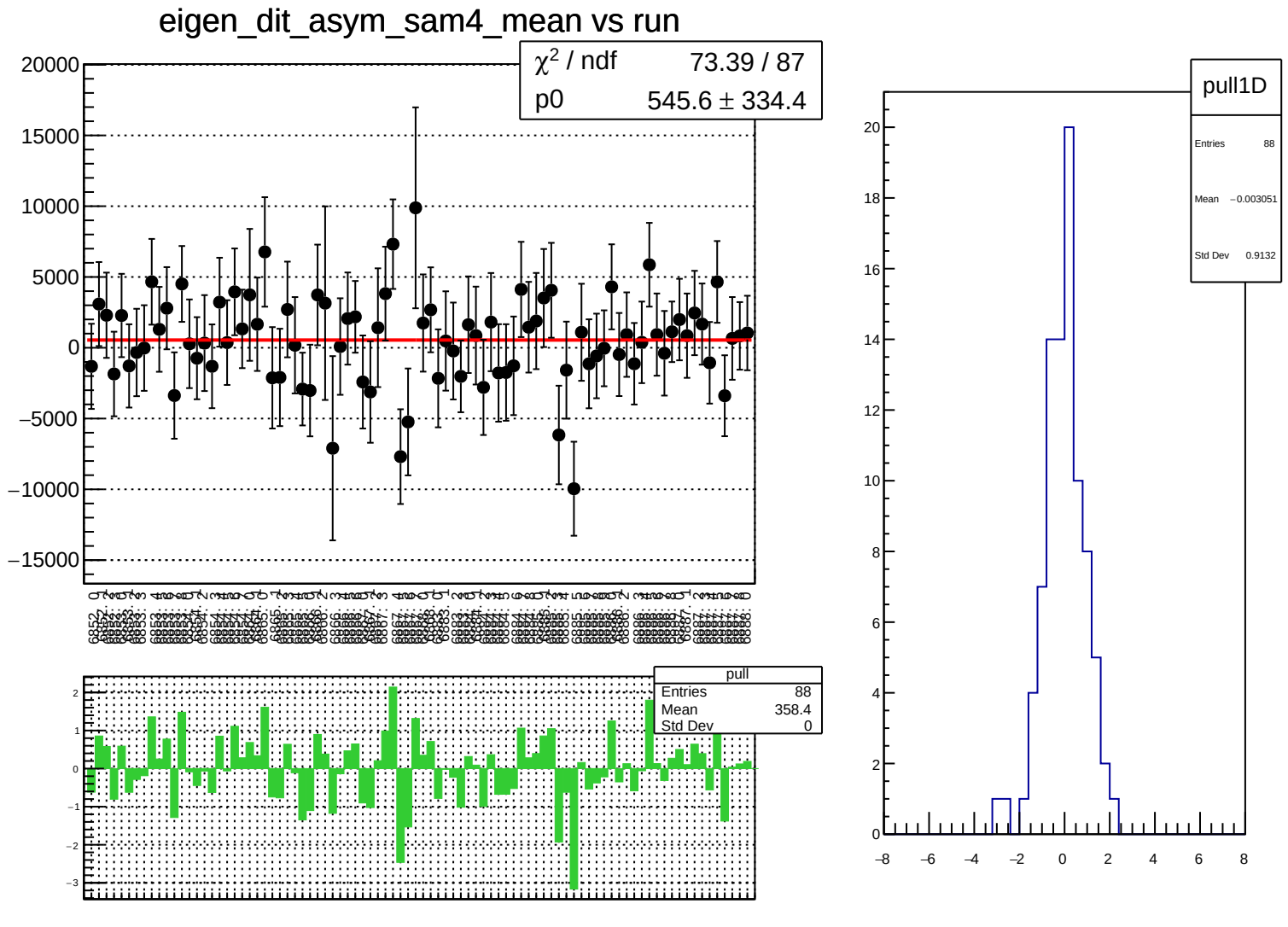

pull1D
Entries 88
Mean −0.003051
Std Dev 0.9132

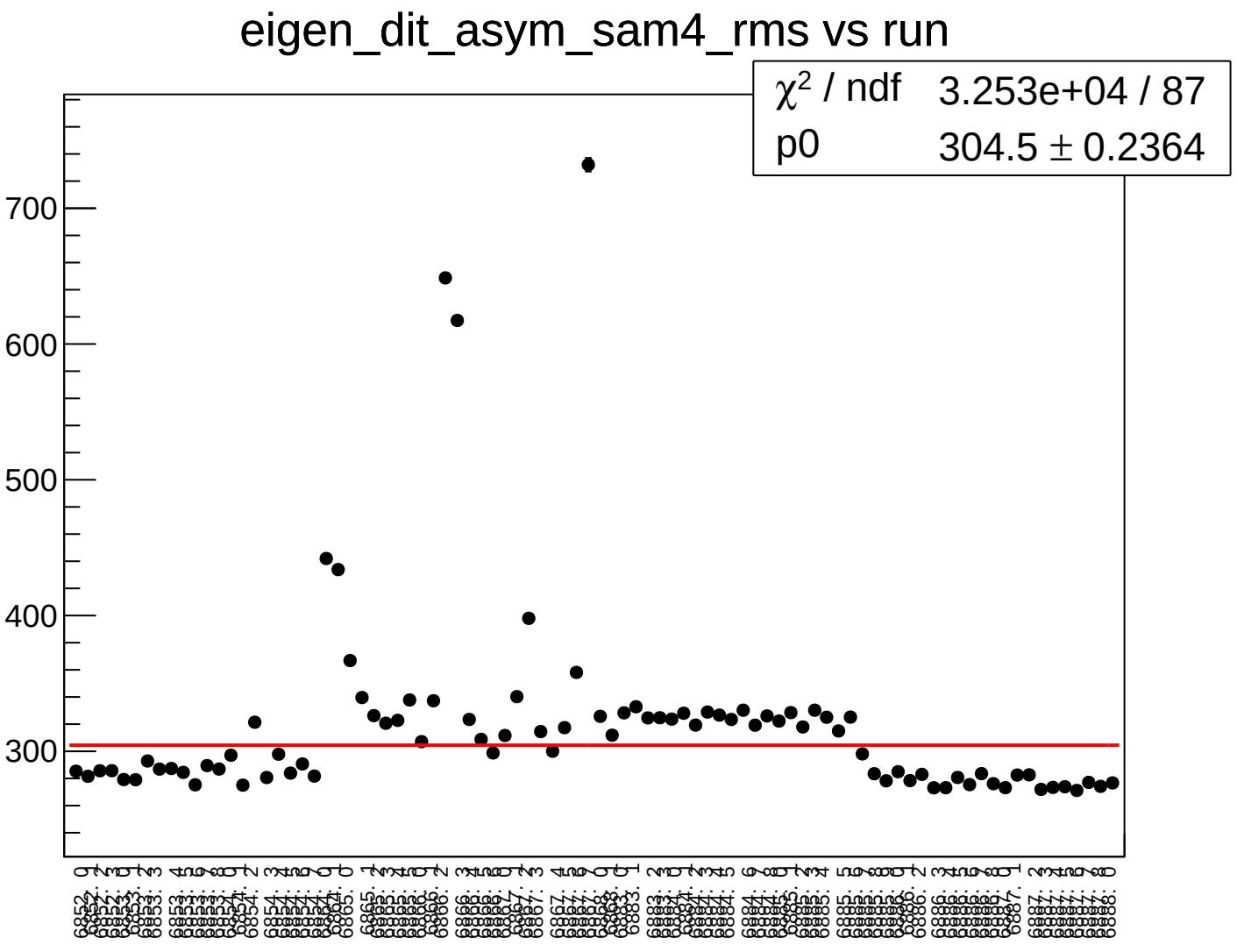

dit_asym_sam4_rms vs run
χ² / ndf 3.253e+04 / 87
p0 304.5 ± 0.2364
700
600
500
400
300

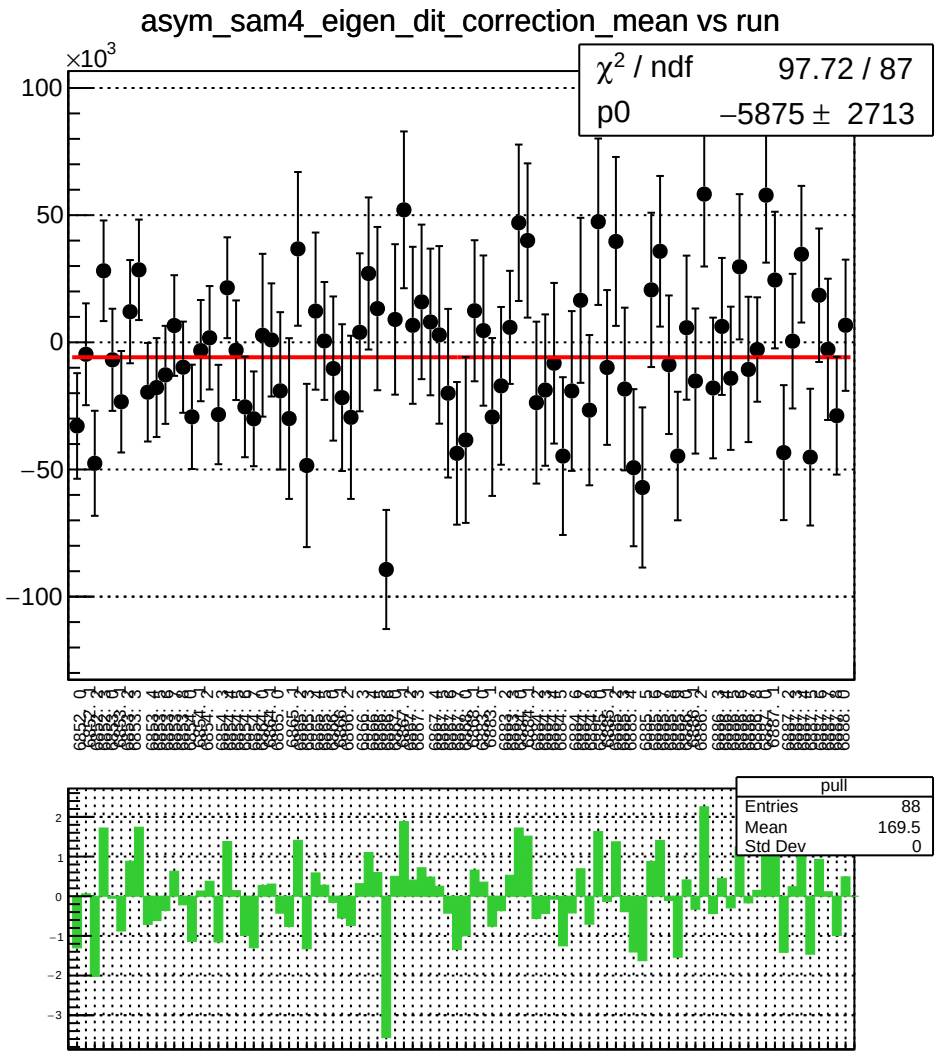

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 97.72 / 87
p0 −5875 ± 2713
100
50
0
−50
−100
pull
Entries 88
Mean 169.5
Std Dev 0
2
1
0
−1
−2
−3

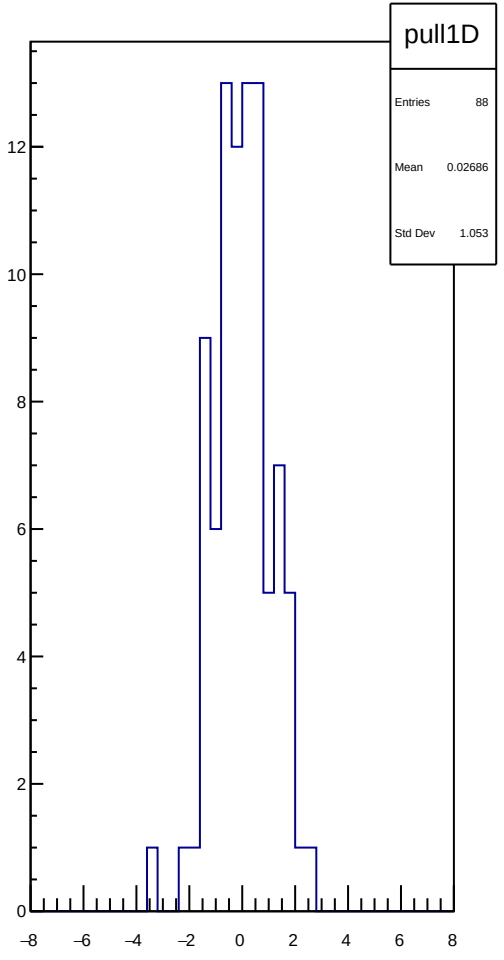

pull1D
Entries 88
Mean 0.02686
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

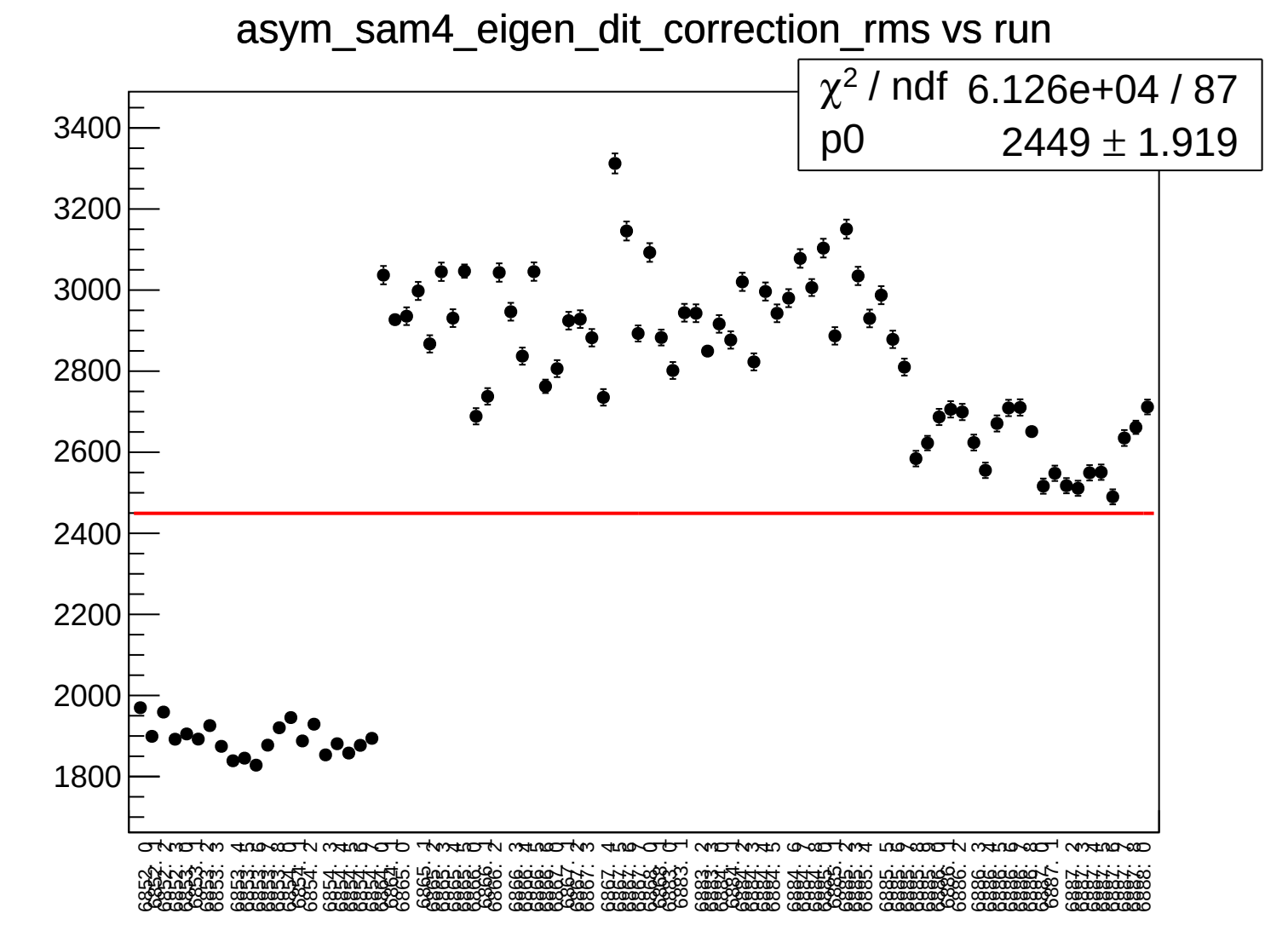

asym_sam4_dit_correction_rms vs run
χ² / ndf 6.126e+04 / 87
p0 2449 ± 1.919
3400
3200
3000
2800
2600
2400
2200
2000
1800

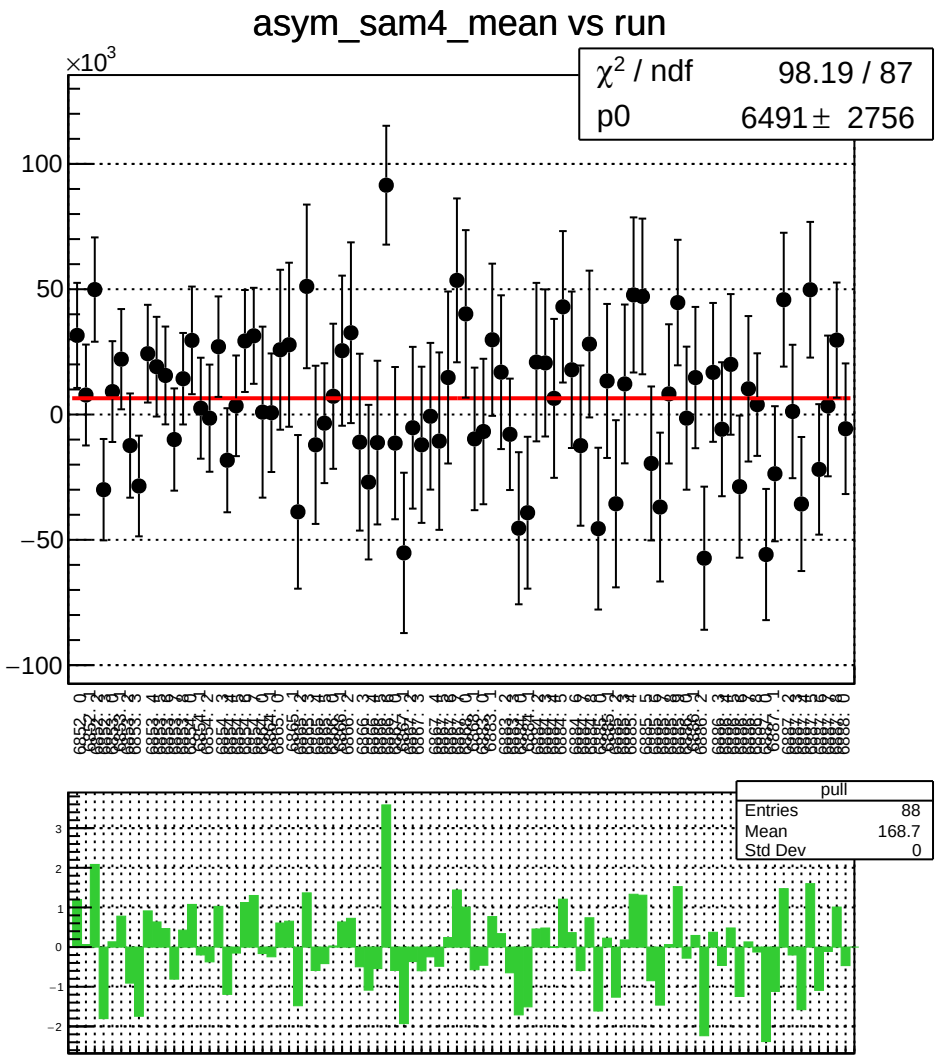

eigen_dit_asym_sam4_mean vs run
χ² / ndf 73.39 / 87
p0 545.6 ± 334.4
pull
Entries 88
Mean 358.4
Std Dev 0
pull1D
Entries 88
Mean −0.003051
Std Dev 0.9132

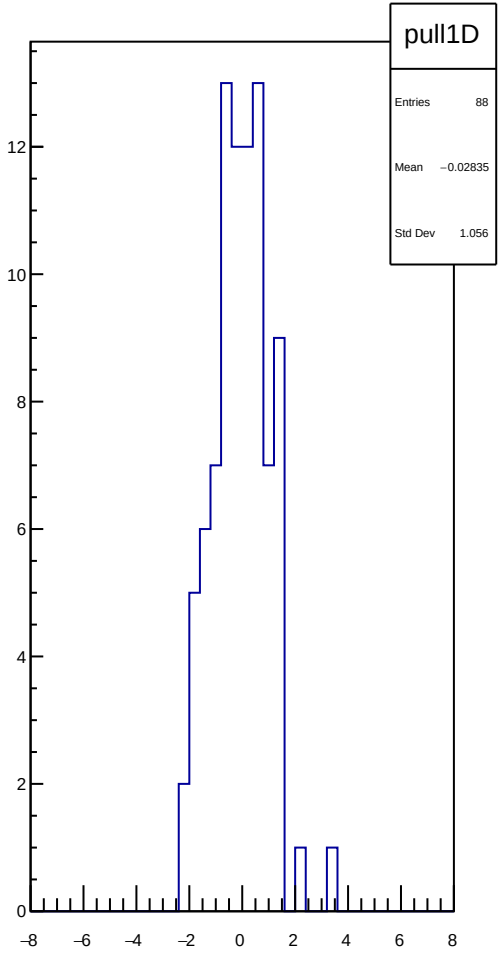

eigen_dit_asym_sam4_rms vs run
χ² / ndf 3.253e+04 / 87
p0 304.5 ± 0.2364
700
600
500
400
300

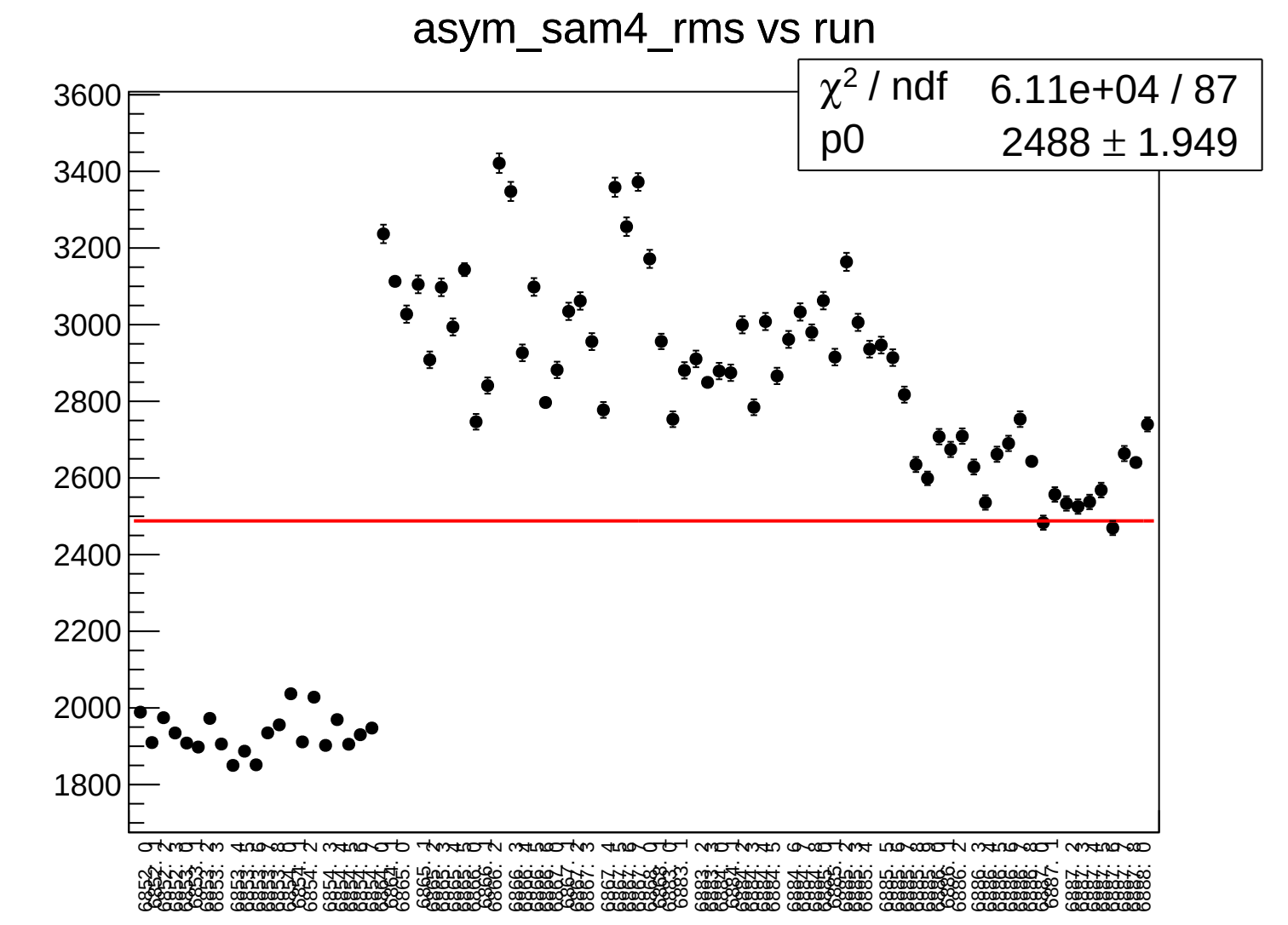

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.72 / 87
p0 −5875 ± 2713
100
50
0
−50
−100
pull
Entries 88
Mean 169.5
Std Dev 0
2
1
0
−1
−2
−3

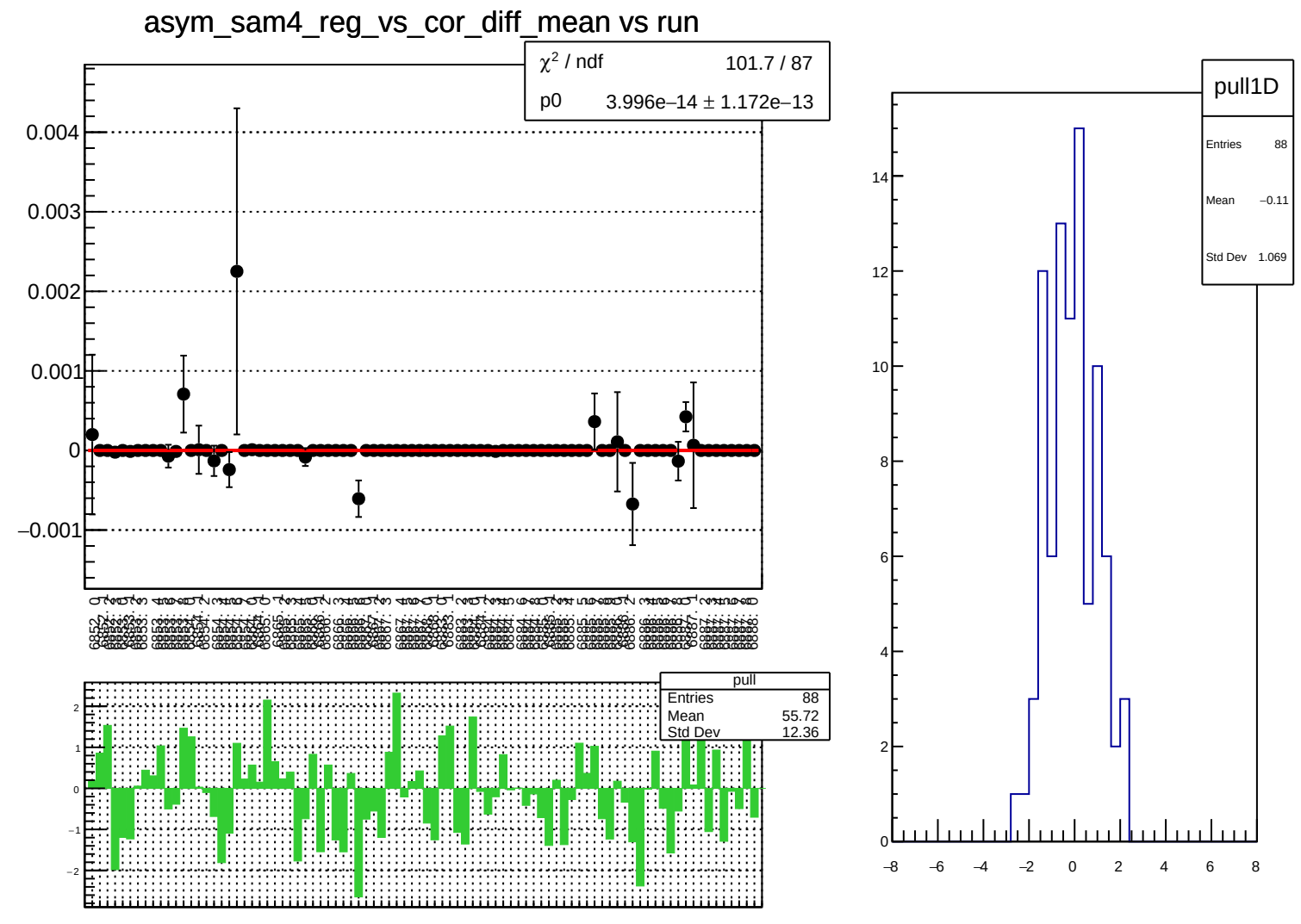

pull1D
Entries 88
Mean 0.02686
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

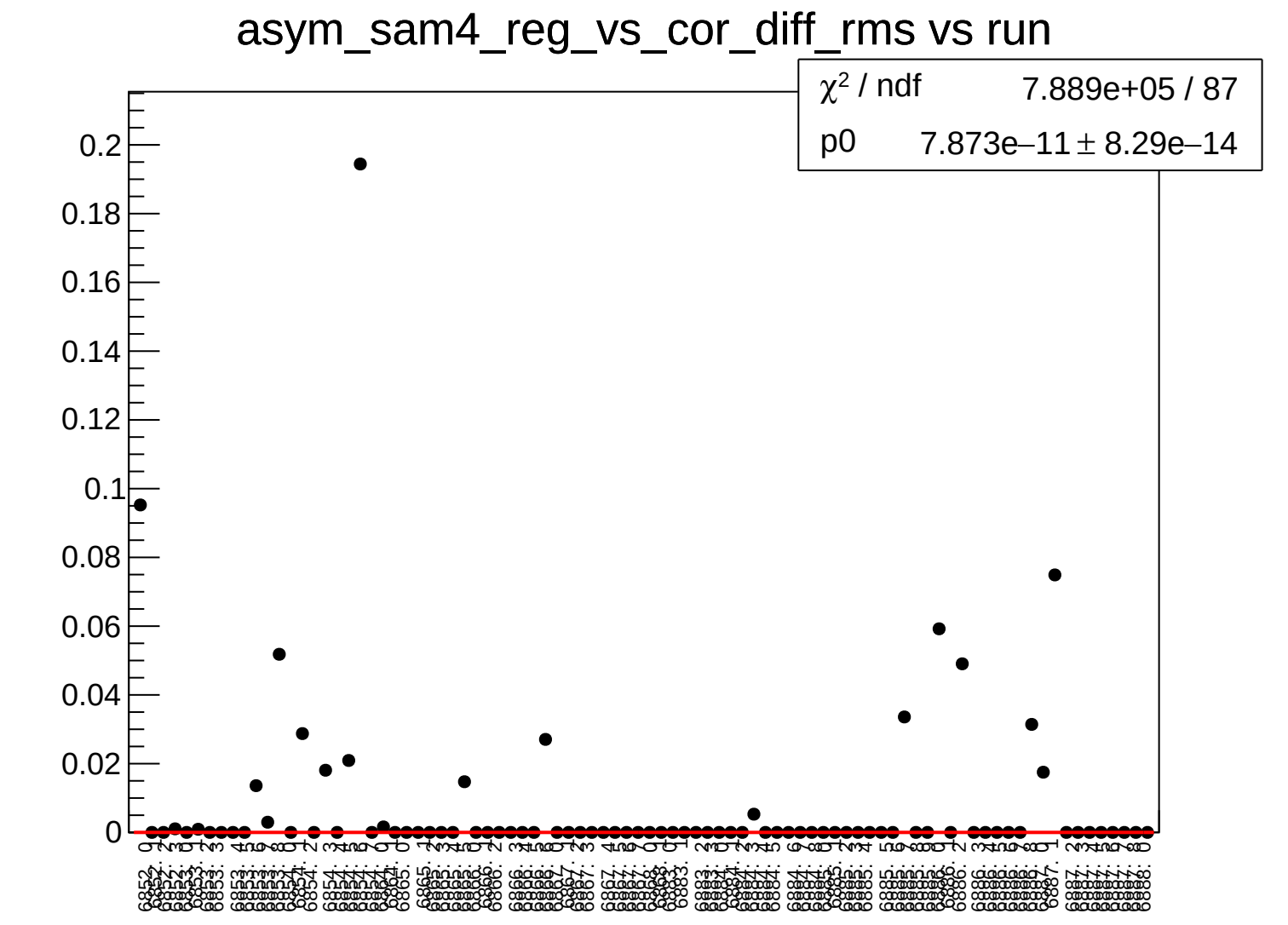

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 6.126e+04 / 87
p0 2449 ± 1.919
3400
3200
3000
2800
2600
2400
2200
2000
1800

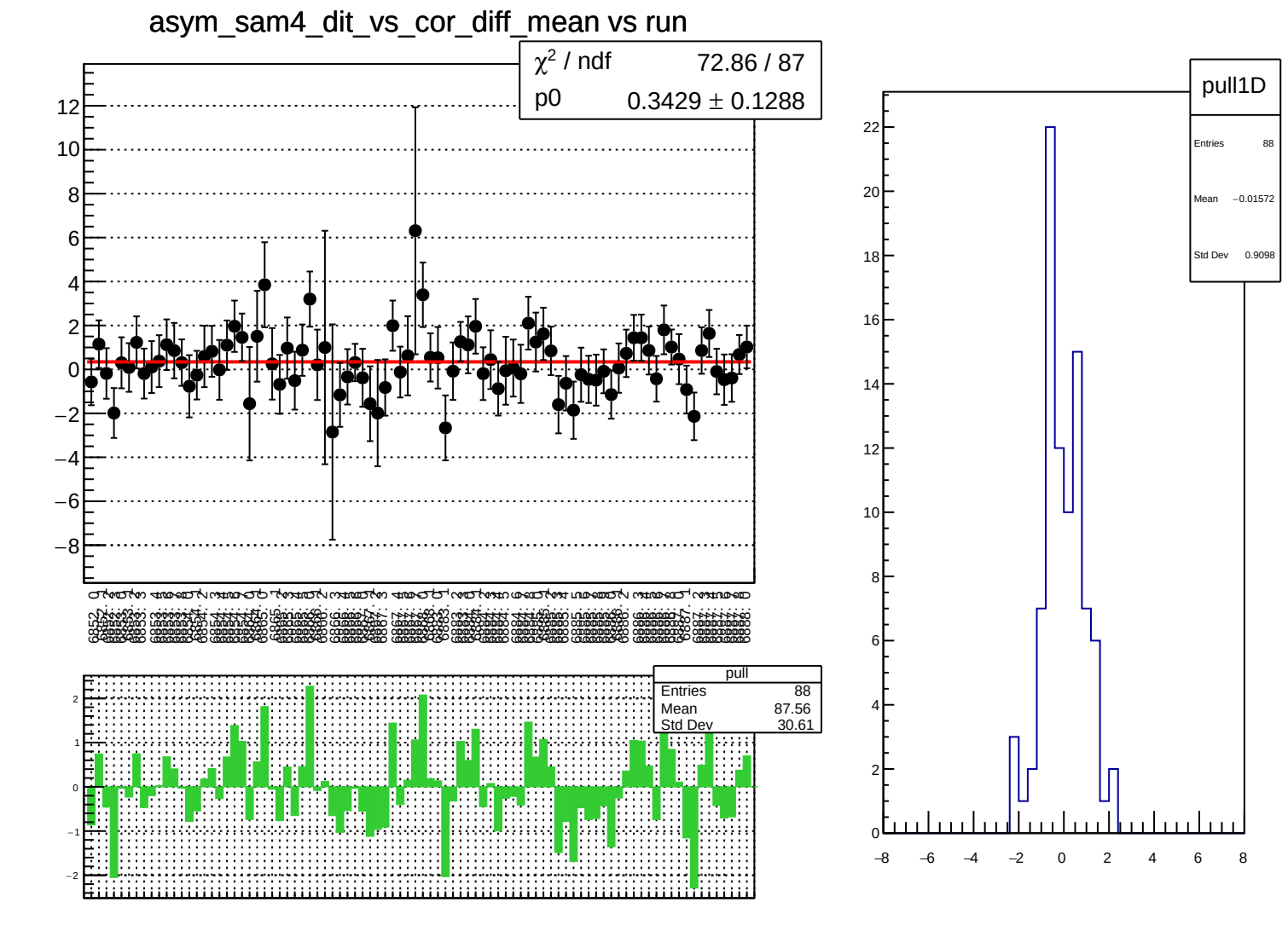

asym_sam4_mean vs run
×10^3
χ^2 / ndf 98.19 / 87
p0 6491 ± 2756
100
50
0
−50
−100
pull
Entries 88
Mean 168.7
Std Dev 0
3
2
1
0
−1
−2

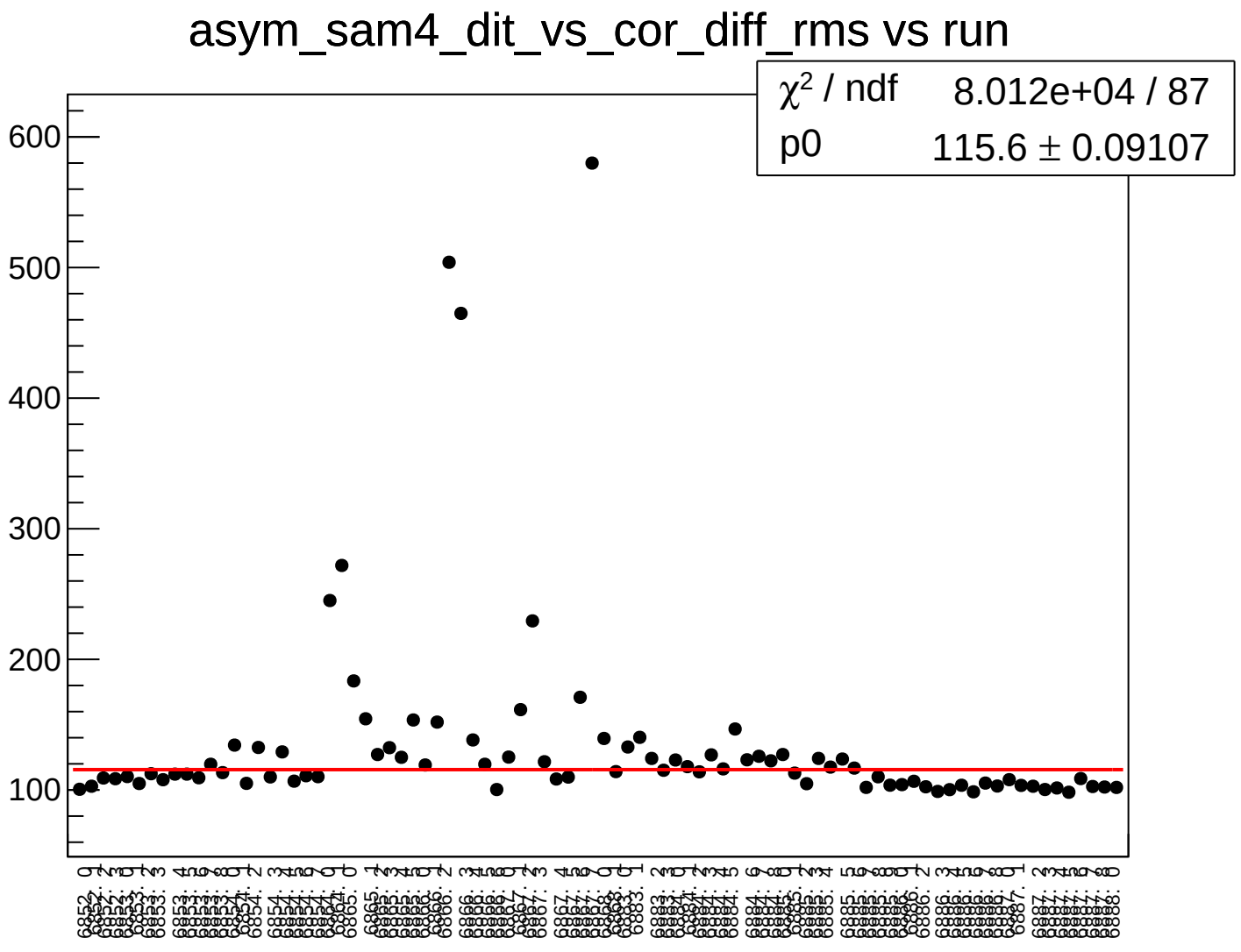

pull1D
Entries 88
Mean −0.02835
Std Dev 1.056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

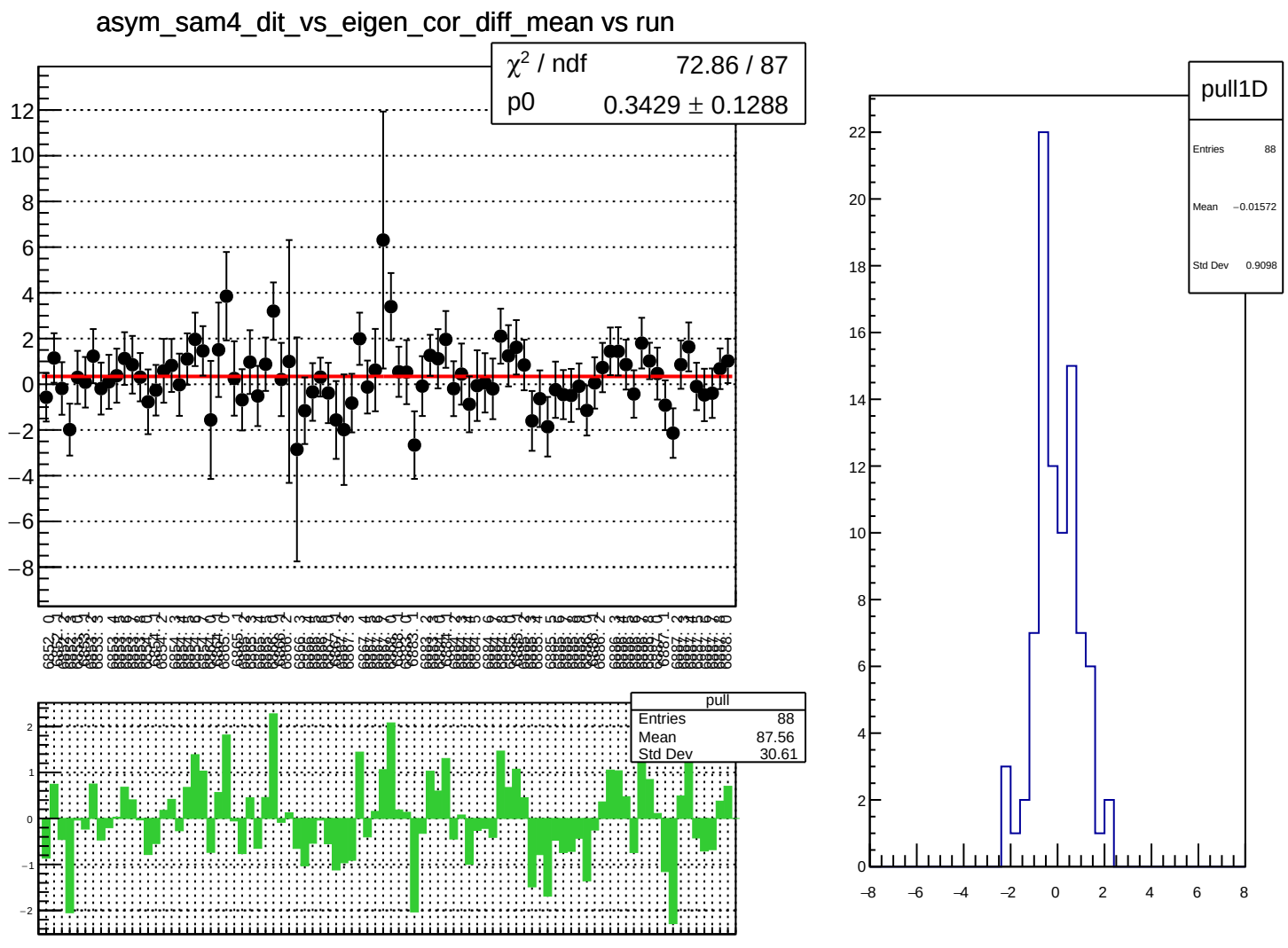

asym_sam4_rms vs run
χ^2 / ndf 6.11e+04 / 87
p0 2488 ± 1.949
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

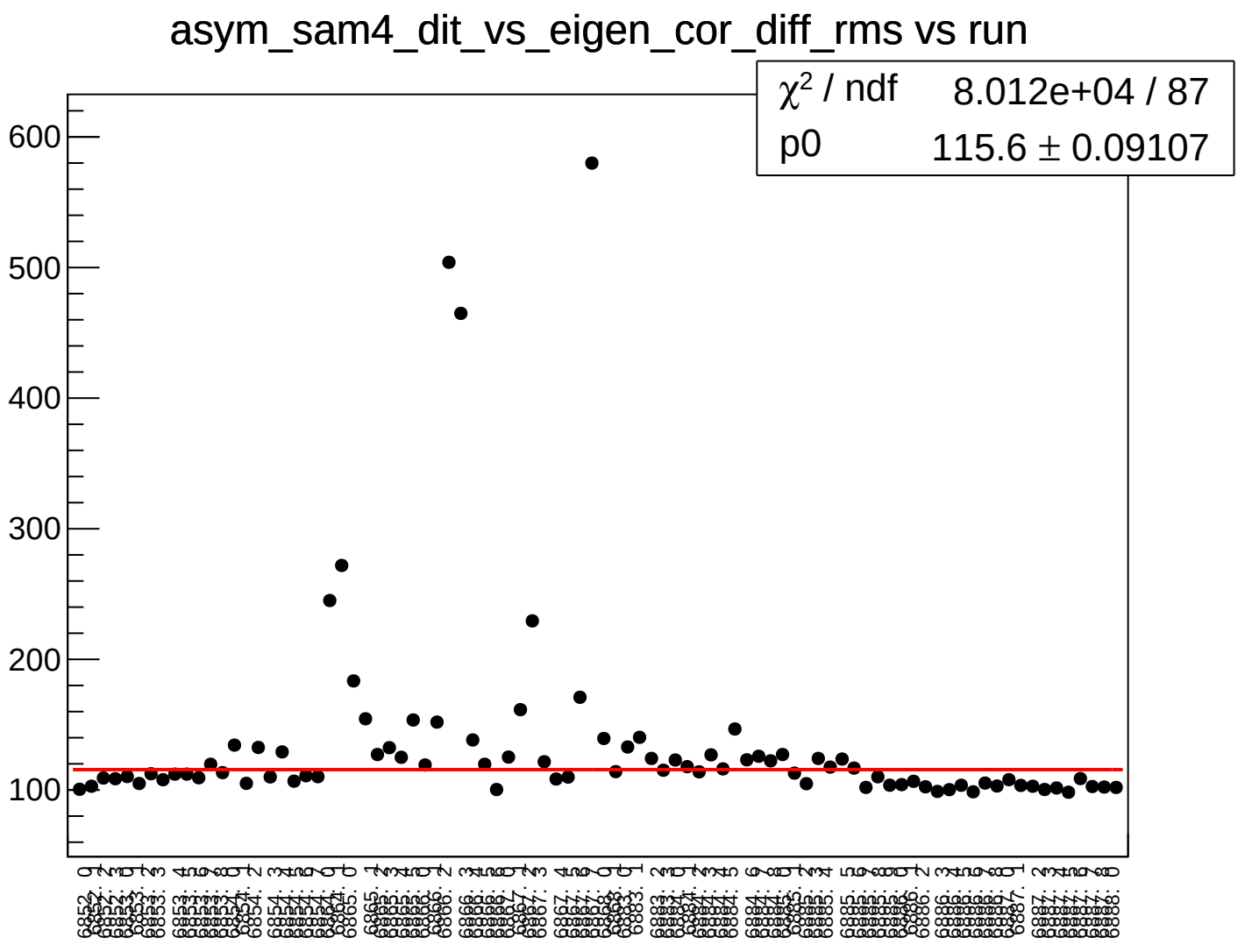

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 87
p0 3.996e−14 ± 1.172e−13
0.004
0.003
0.002
0.001
0
−0.001
pull
Entries 88
Mean 55.72
Std Dev 12.36
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.11
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

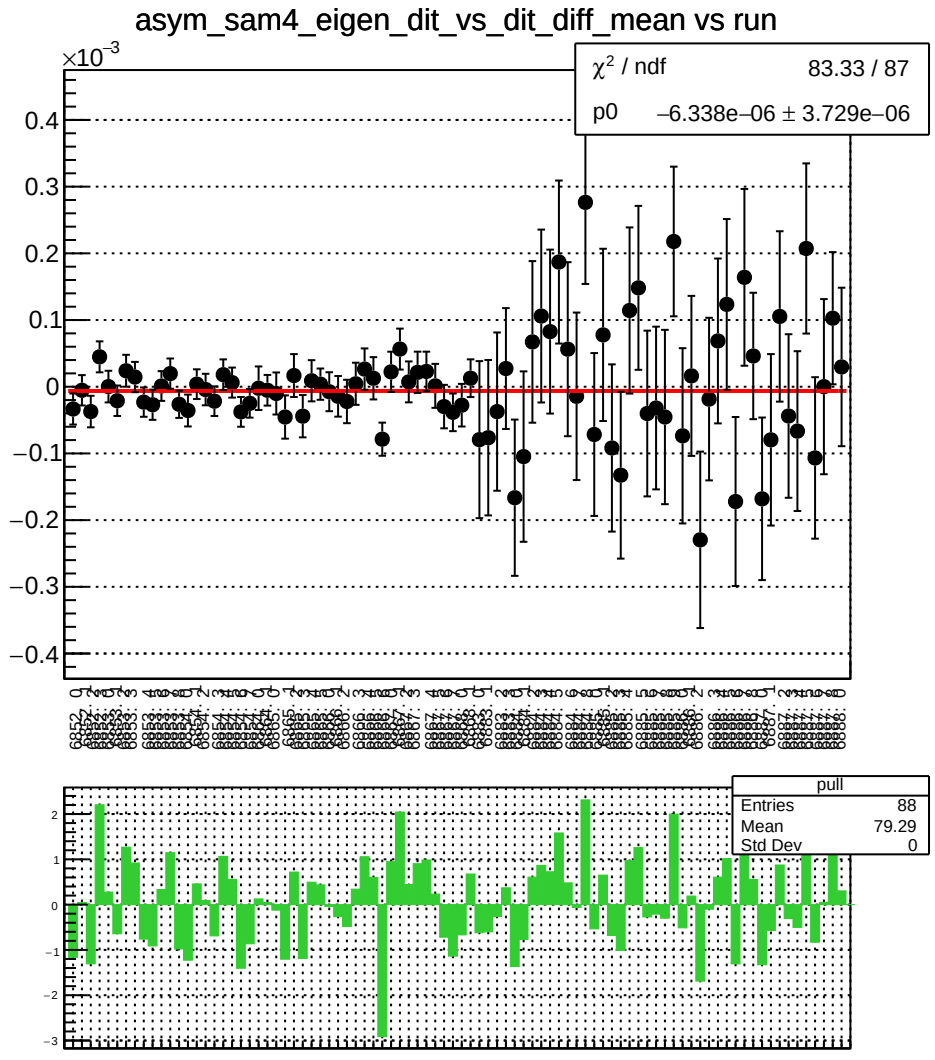

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 7.889e+05 / 87
p0 7.873e−11 ± 8.29e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

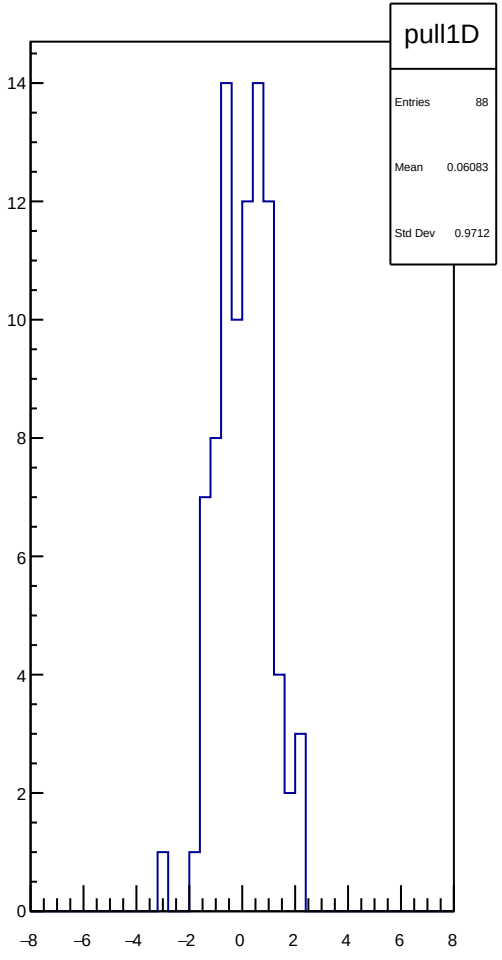

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 72.86 / 87
p0 0.3429 ± 0.1288
pull
Entries 88
Mean 87.56
Std Dev 30.61
pull1D
Entries 88
Mean −0.01572
Std Dev 0.9098

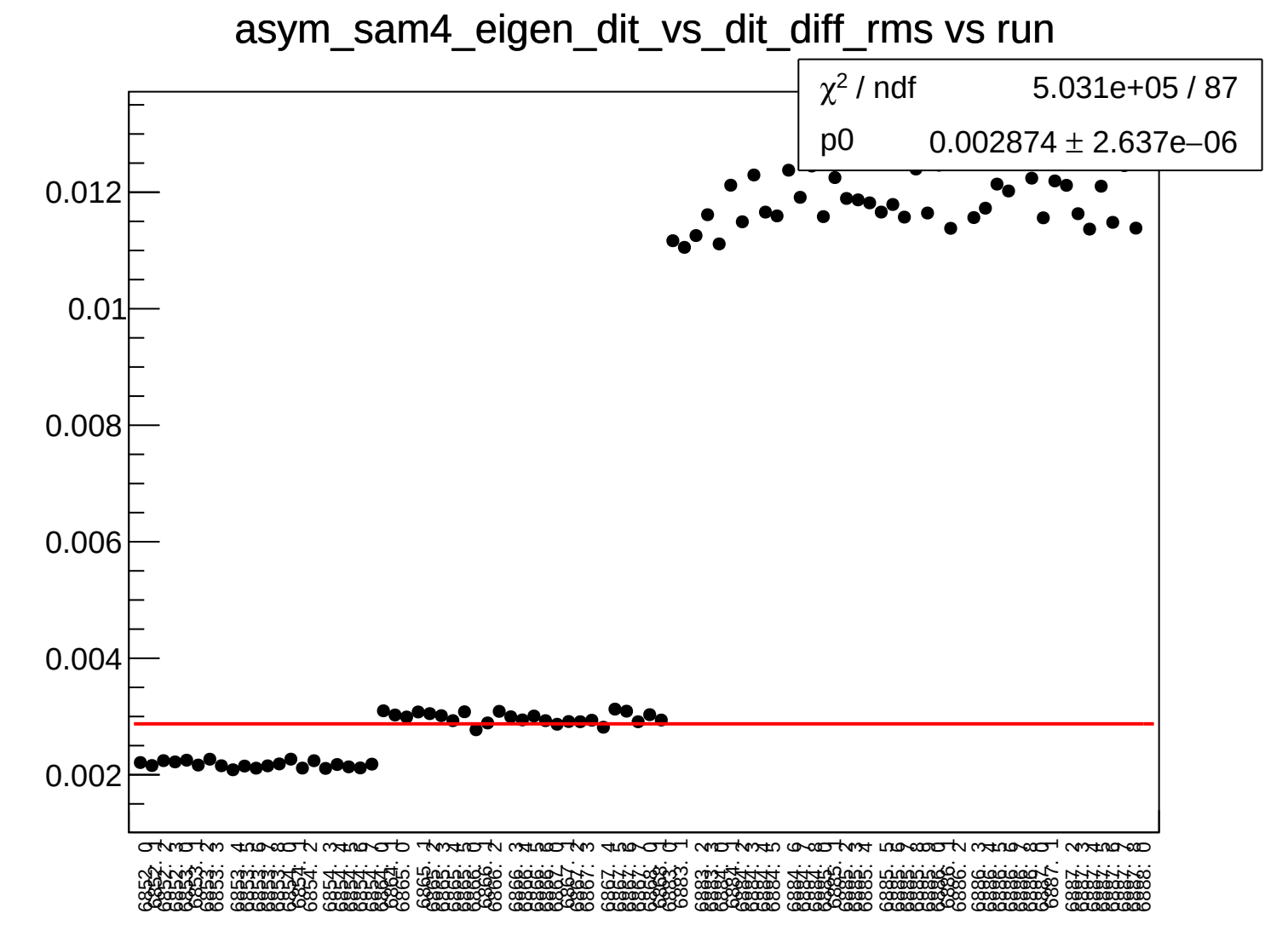

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 8.012e+04 / 87
p0 115.6 ± 0.09107
600
500
400
300
200
100

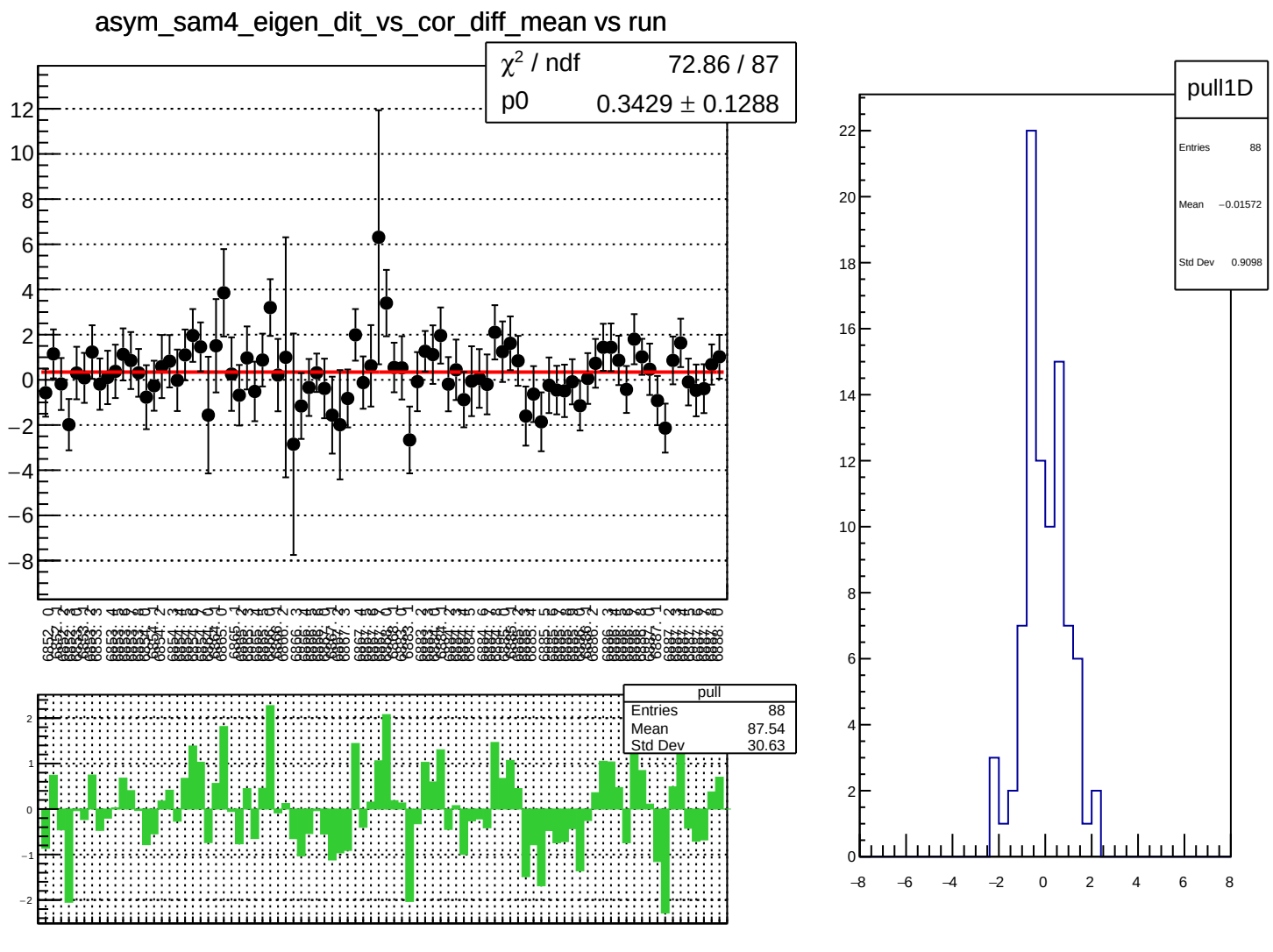

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.86 / 87
p0 0.3429 ± 0.1288
pull
Entries 88
Mean 87.56
Std Dev 30.61
pull1D
Entries 88
Mean −0.01572
Std Dev 0.9098

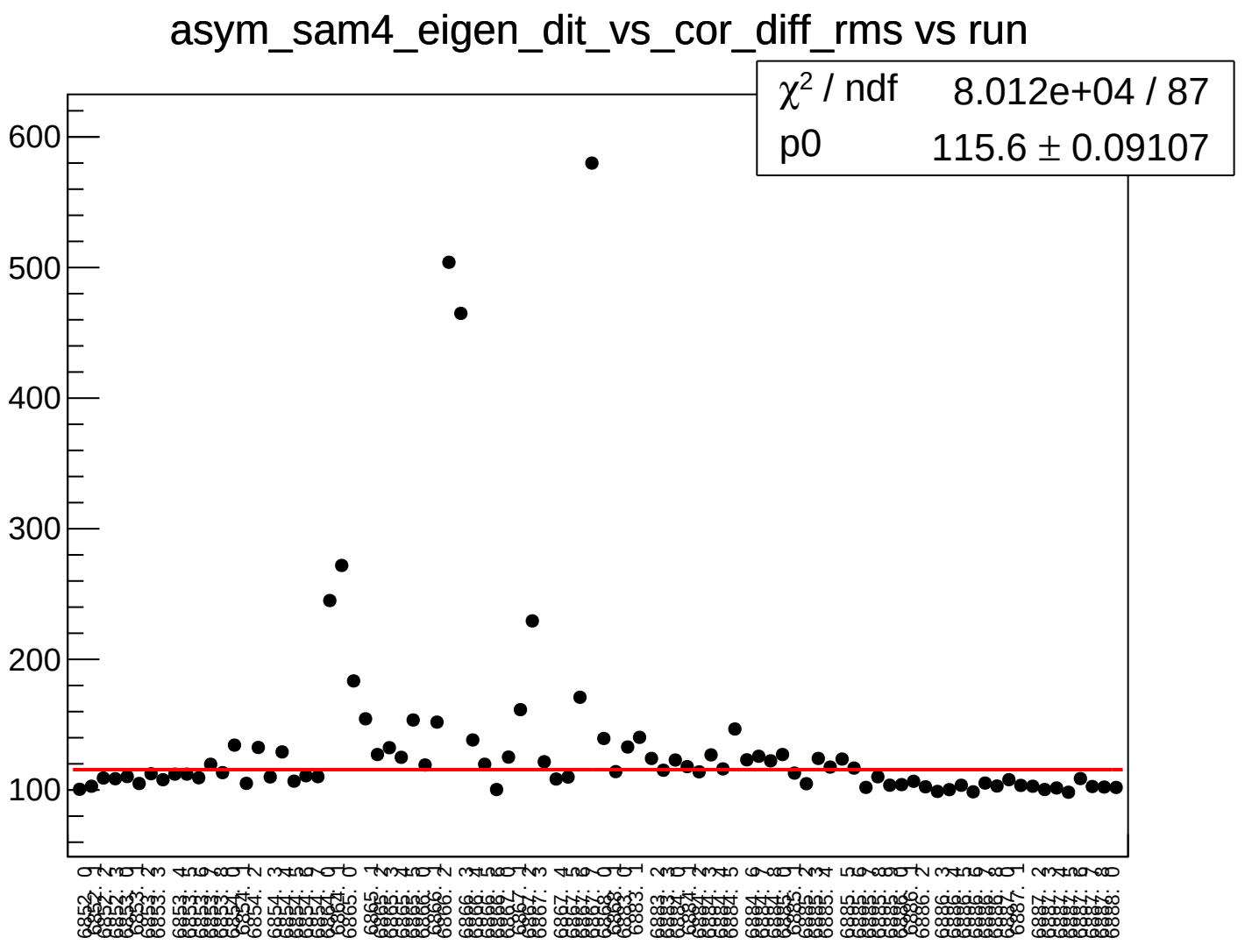

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.012e+04 / 87
p0 115.6 ± 0.09107
600
500
400
300
200
100

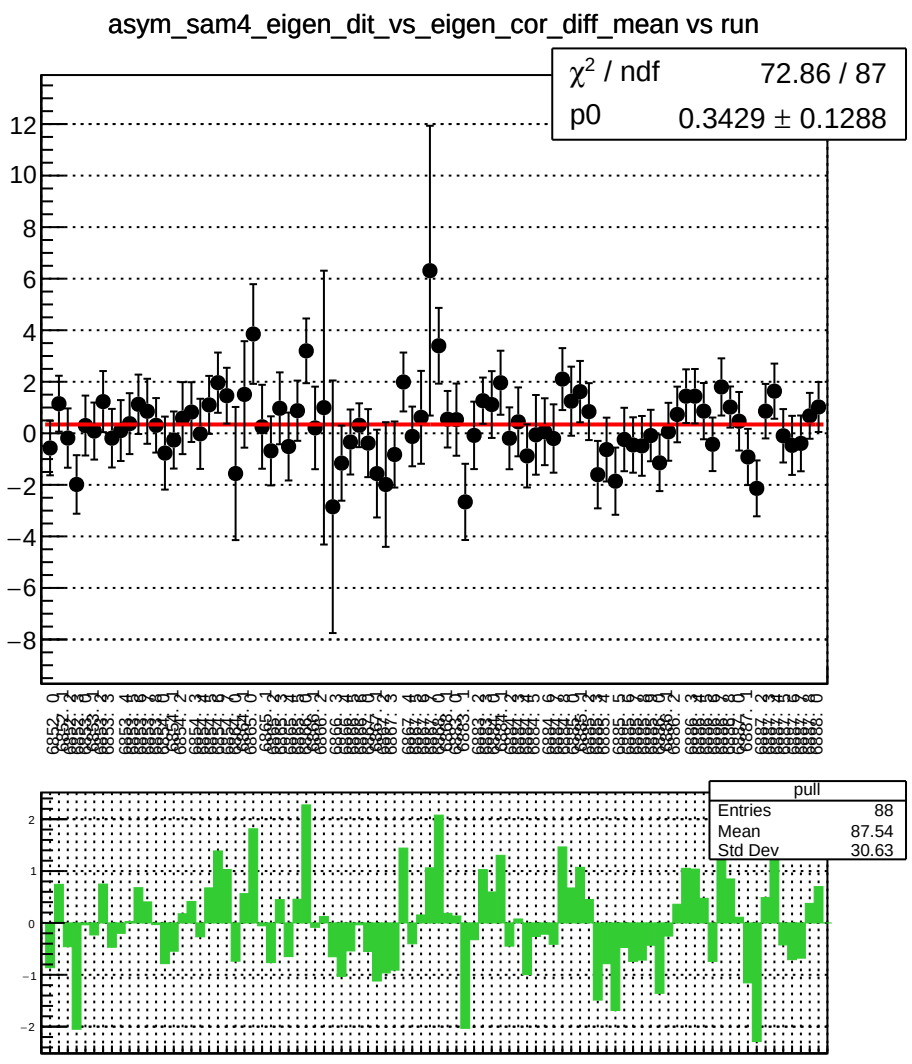

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.33 / 87
p0 −6.338e−06 ± 3.729e−06
pull
Entries 88
Mean 79.29
Std Dev 0

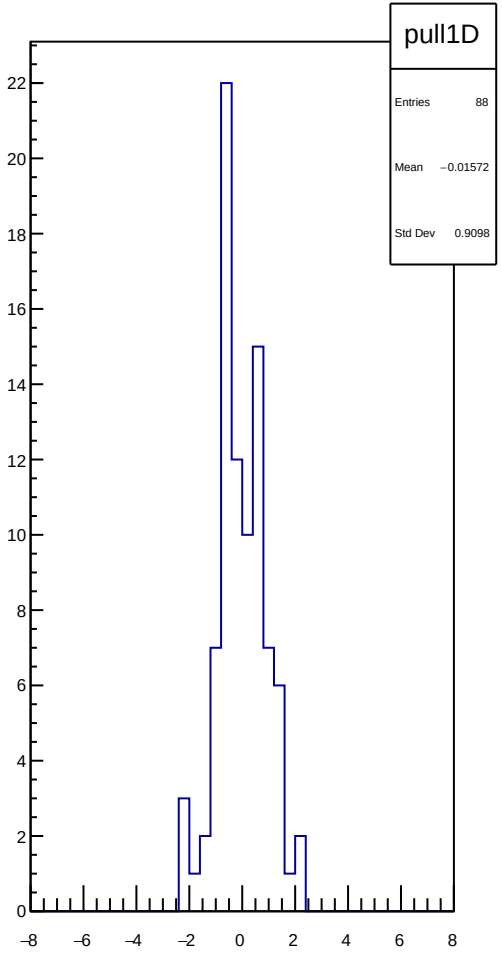

pull1D
Entries 88
Mean 0.06083
Std Dev 0.9712

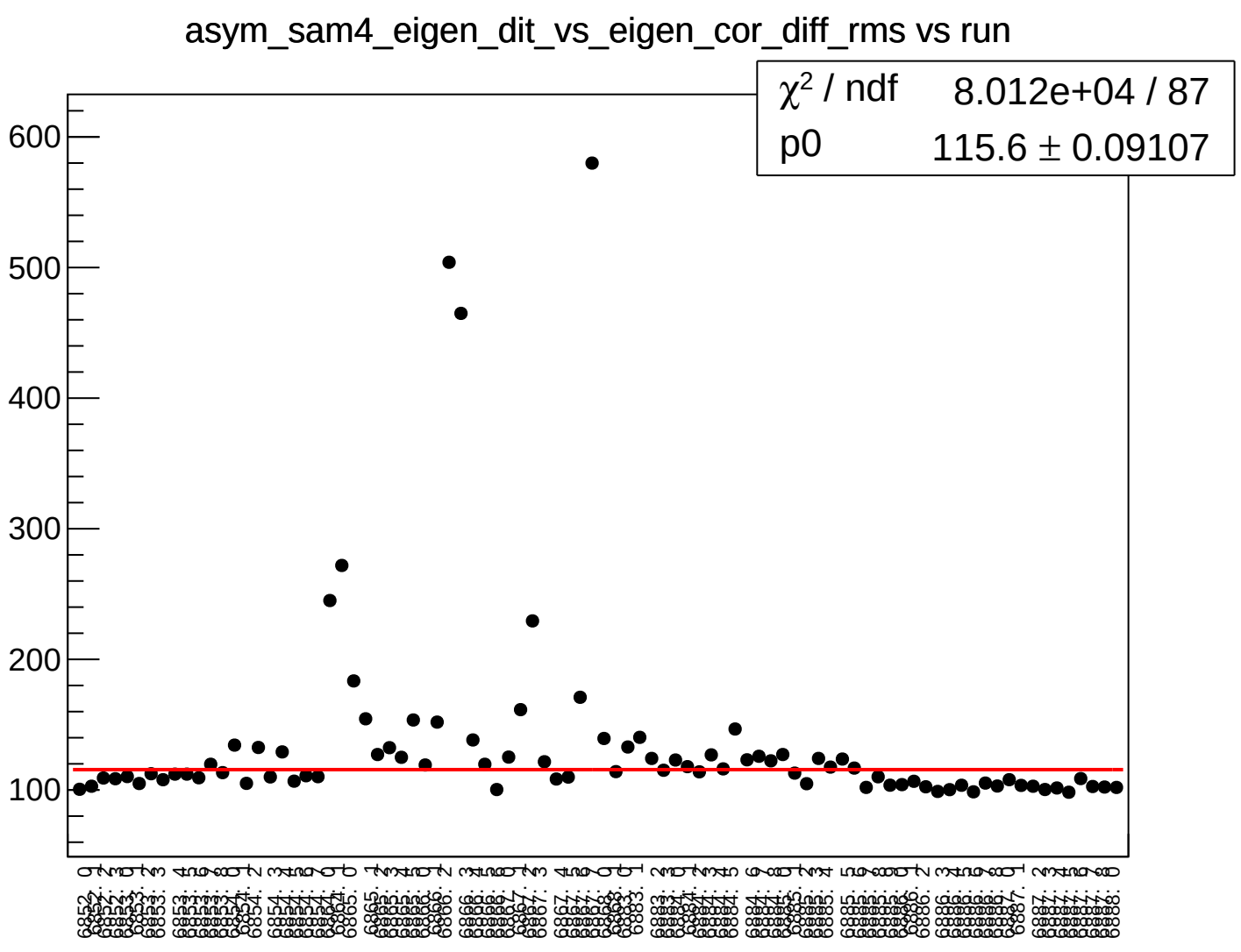

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.031e+05 / 87
p0 0.002874 ± 2.637e−06
0.012
0.01
0.008
0.006
0.004
0.002

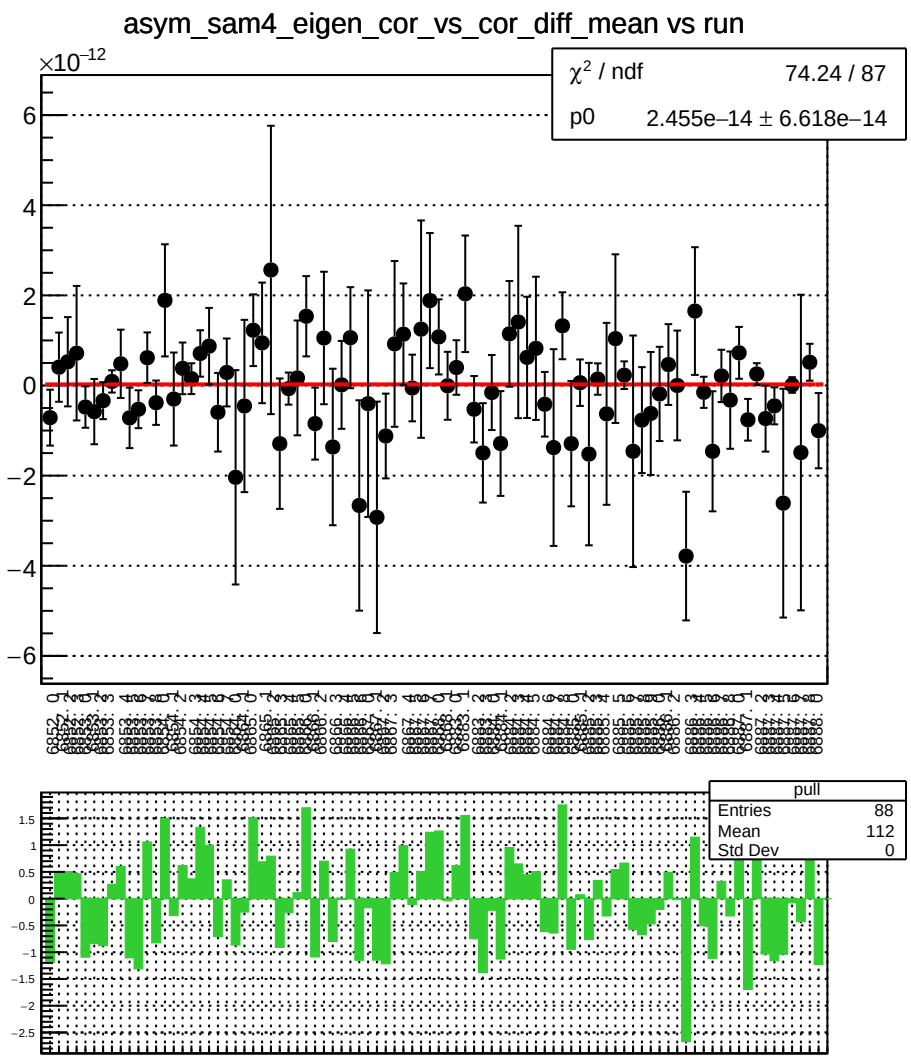

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.86 / 87
p0 0.3429 ± 0.1288
pull
Entries 88
Mean 87.54
Std Dev 30.63
pull1D
Entries 88
Mean −0.01572
Std Dev 0.9098

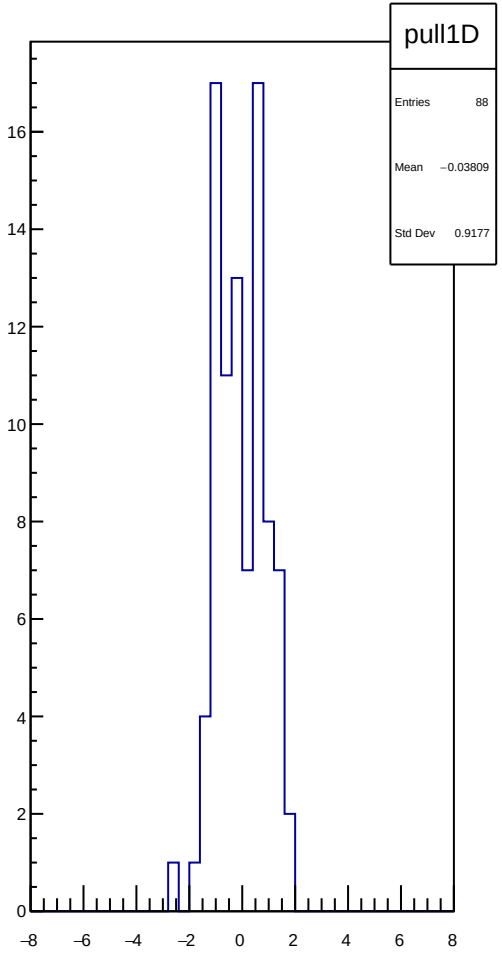

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.012e+04 / 87
p0 115.6 ± 0.09107
600
500
400
300
200
100

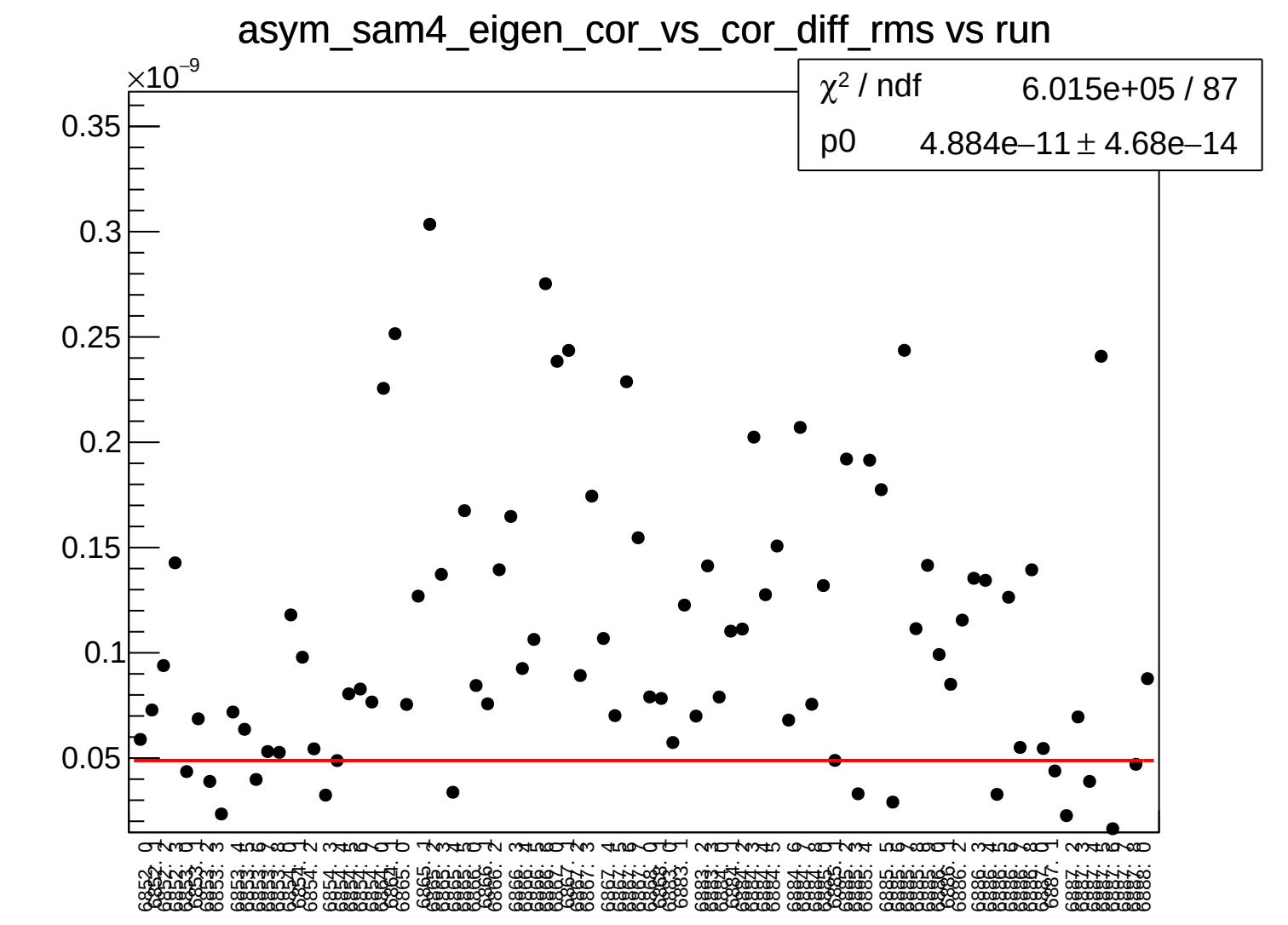

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.86 / 87
p0 0.3429 ± 0.1288
pull
Entries 88
Mean 87.54
Std Dev 30.63

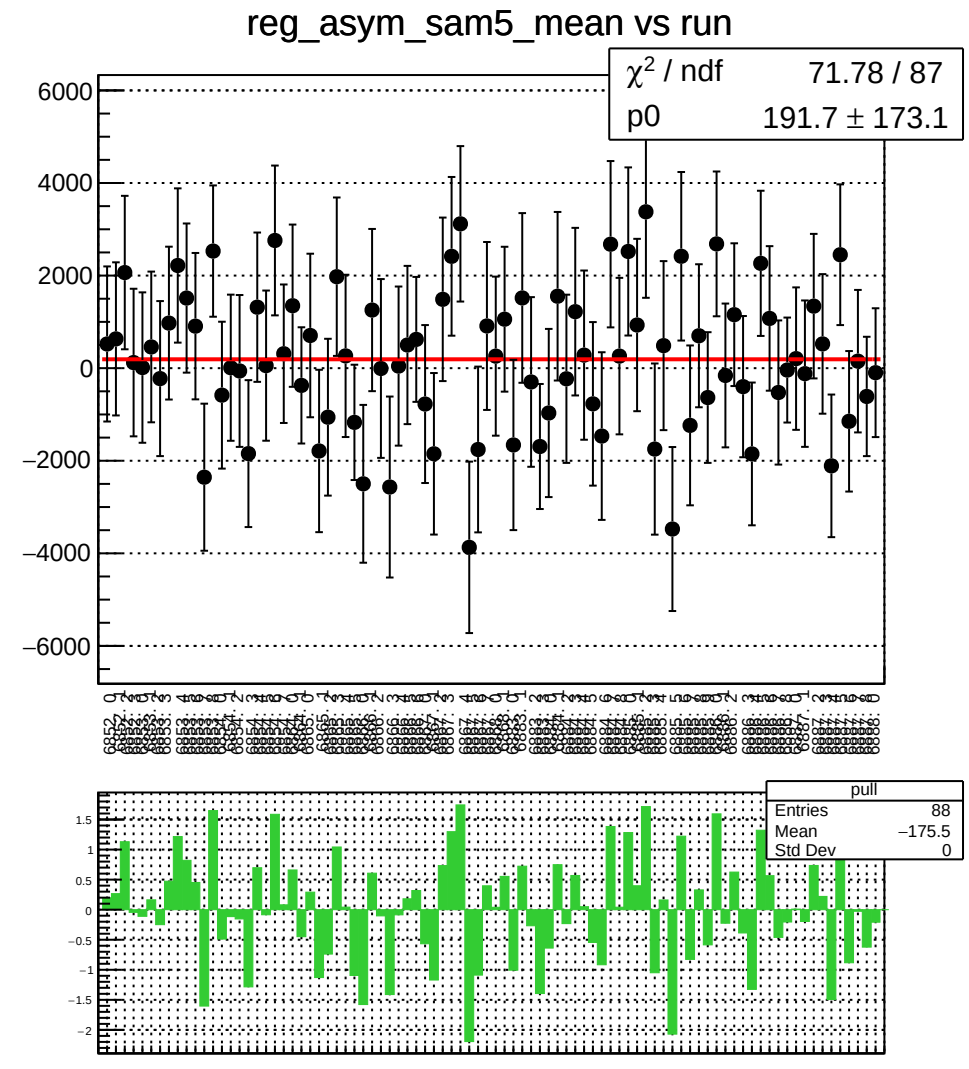

pull1D
Entries 88
Mean −0.01572
Std Dev 0.9098

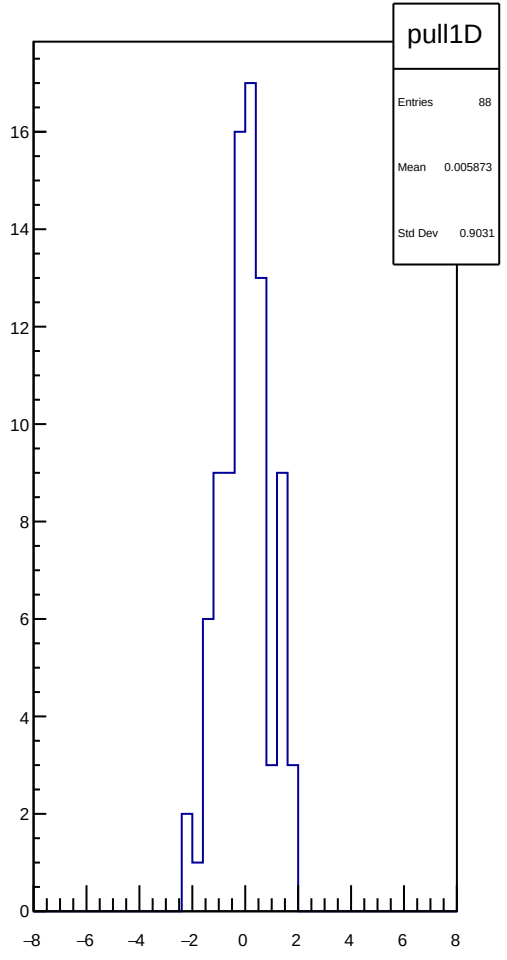

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.012e+04 / 87
p0 115.6 ± 0.09107
600
500
400
300
200
100

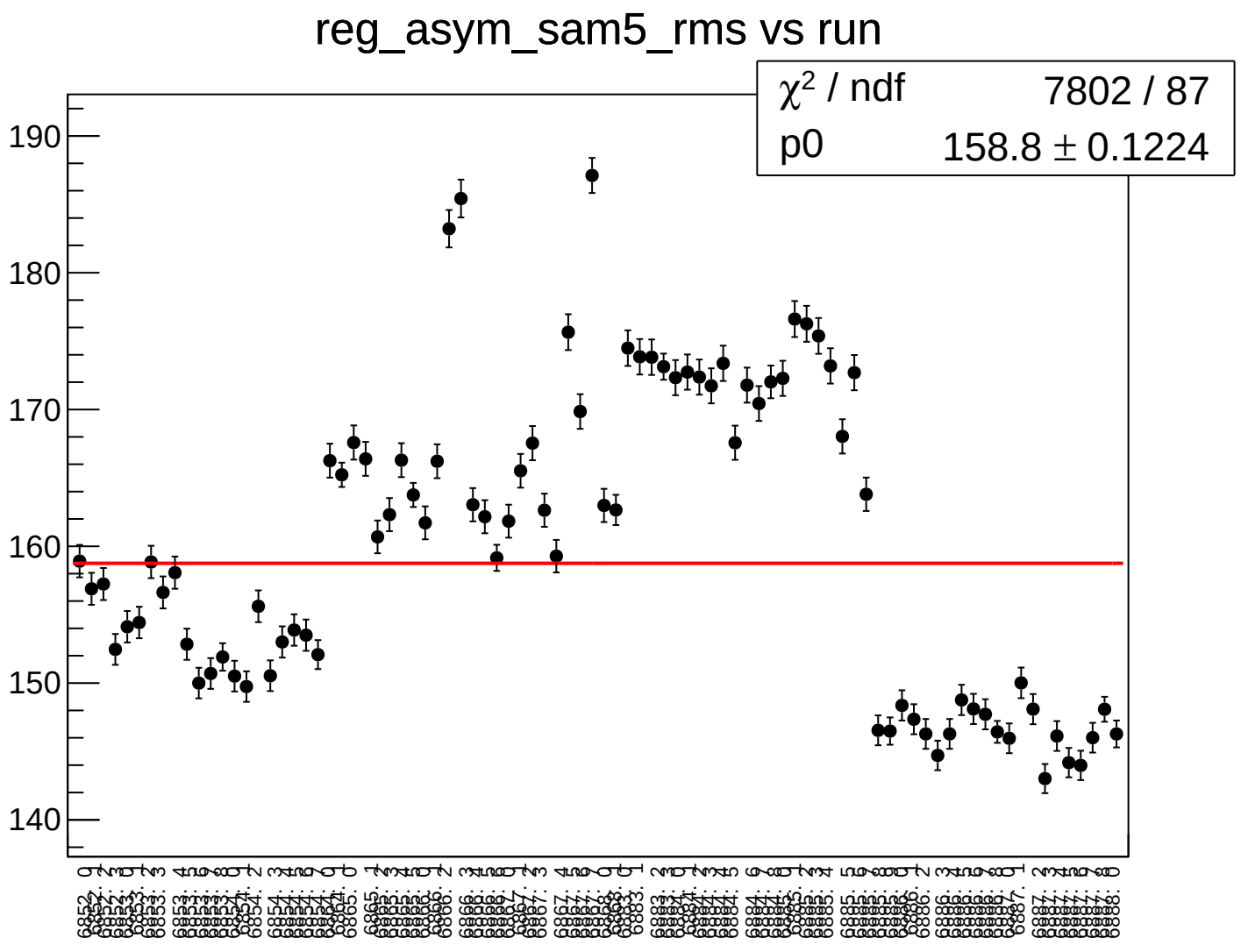

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.24 / 87
p0 2.455e−14 ± 6.618e−14
pull
Entries 88
Mean 112
Std Dev 0

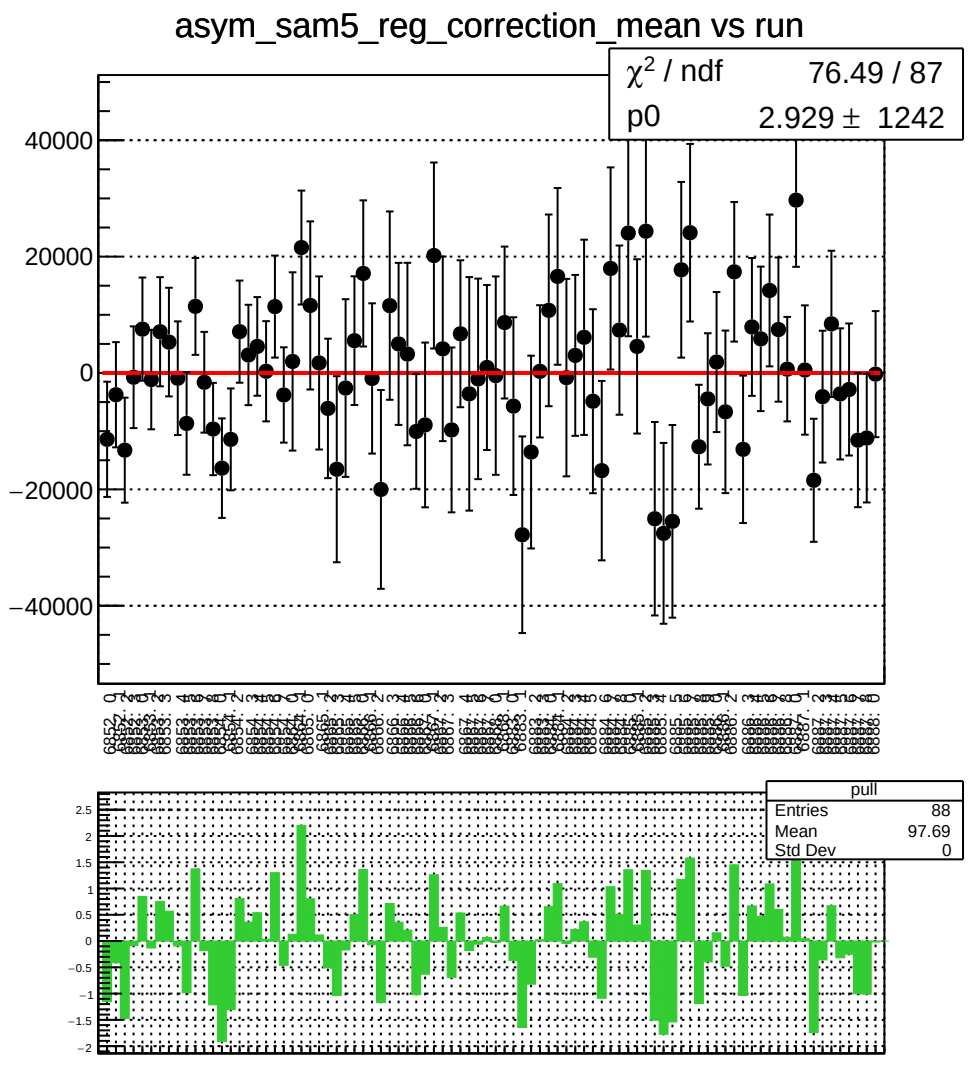

pull1D
Entries 88
Mean −0.03809
Std Dev 0.9177

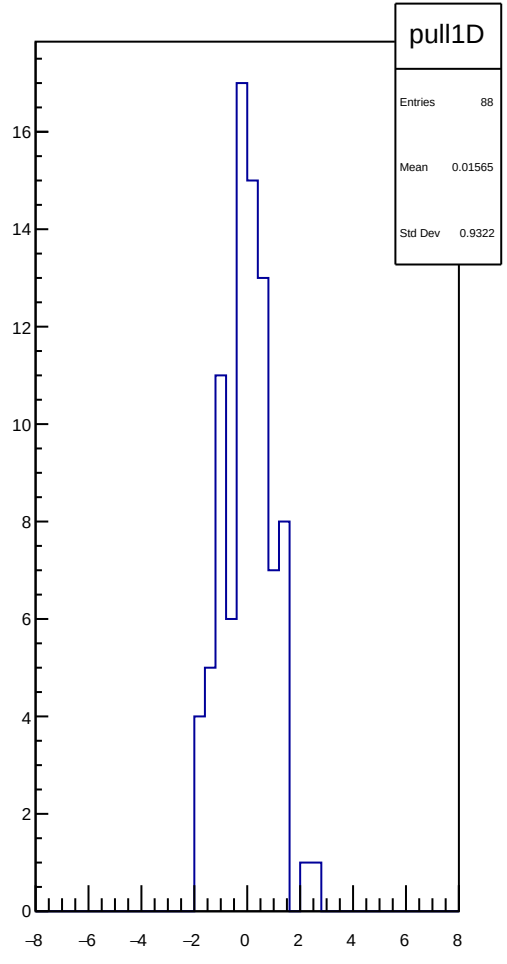

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.015e+05 / 87
p0 4.884e−11 ± 4.68e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

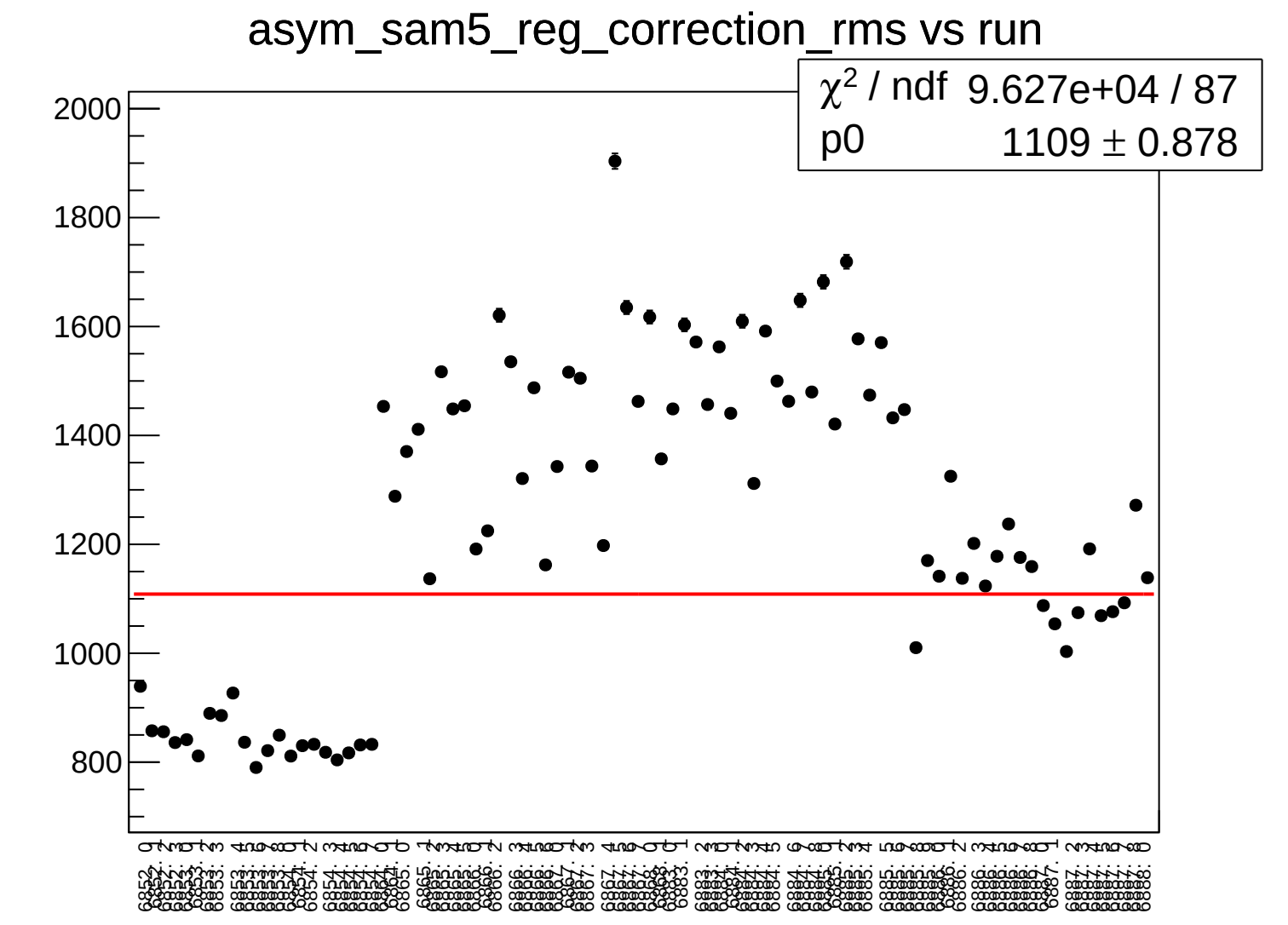

reg_asym_sam5_mean vs run
χ² / ndf 71.78 / 87
p0 191.7 ± 173.1
pull
Entries 88
Mean −175.5
Std Dev 0

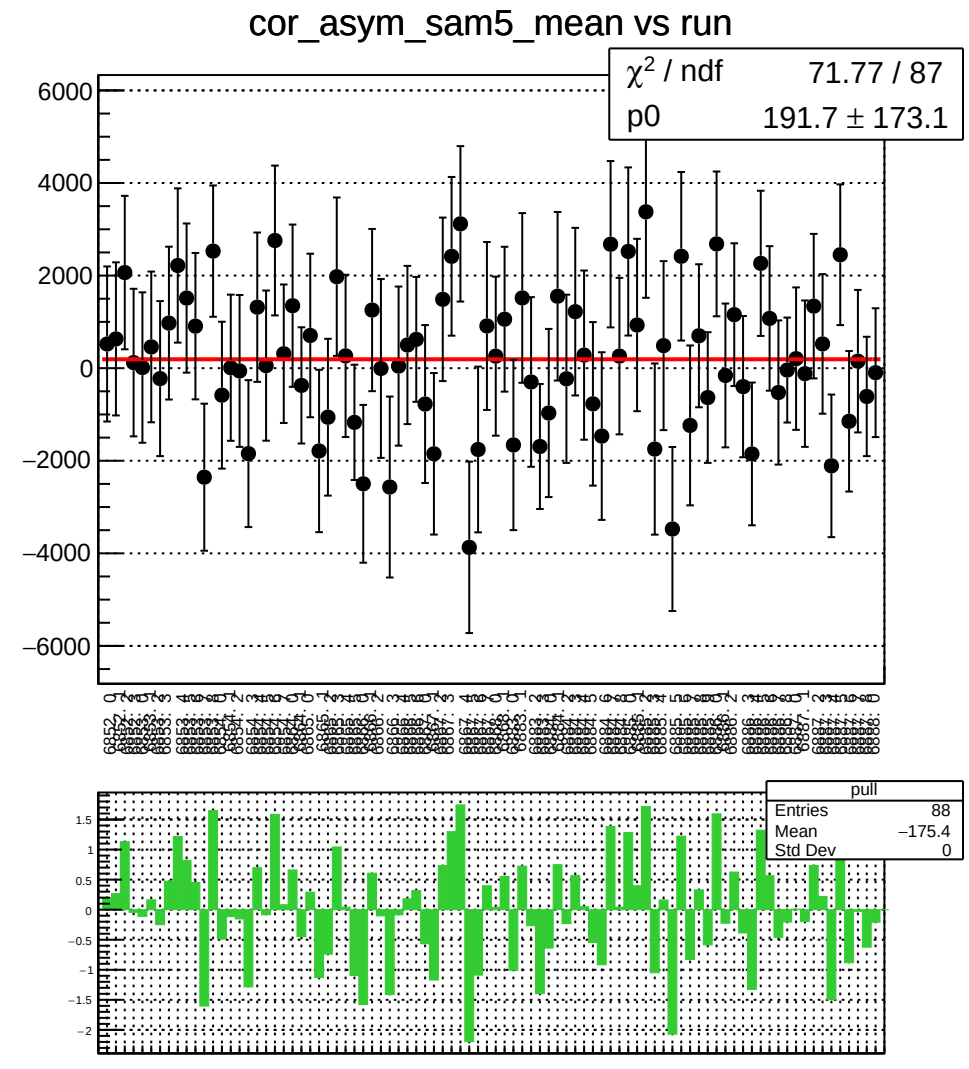

pull1D
Entries 88
Mean 0.005873
Std Dev 0.9031

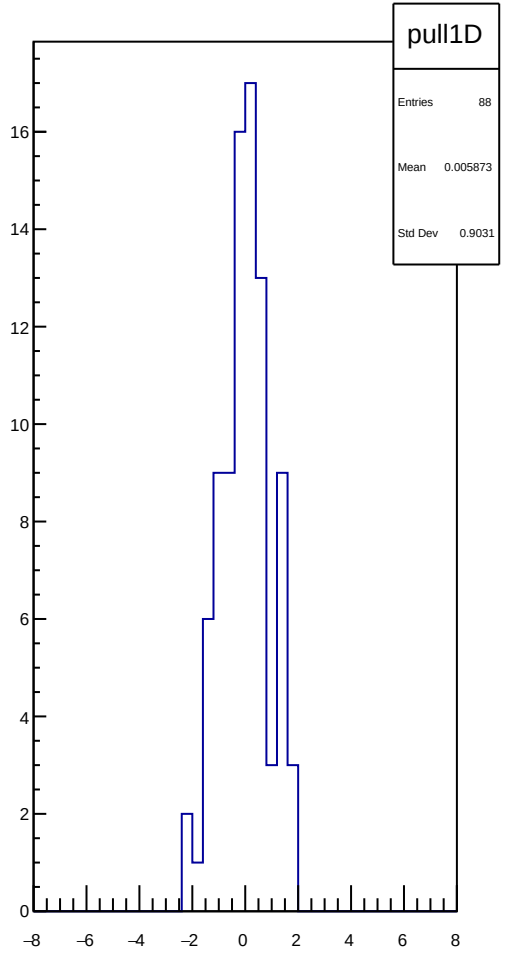

reg_asym_sam5_rms vs run
χ² / ndf 7802 / 87
p0 158.8 ± 0.1224
190
180
170
160
150
140


asym_sam5_reg_correction_mean vs run
χ² / ndf 76.49 / 87
p0 2.929 ± 1242
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 97.69
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean 0.01565
Std Dev 0.9322
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_reg_correction_rms vs run
χ^2 / ndf 9.627e+04 / 87
p0 1109 ± 0.878
2000
1800
1600
1400
1200
1000
800


cor_asym_sam5_mean vs run
χ² / ndf 71.77 / 87
p0 191.7 ± 173.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −175.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean 0.005873
Std Dev 0.9031
16
14
12
10
8
6
4
2
0
−8
−6
−4
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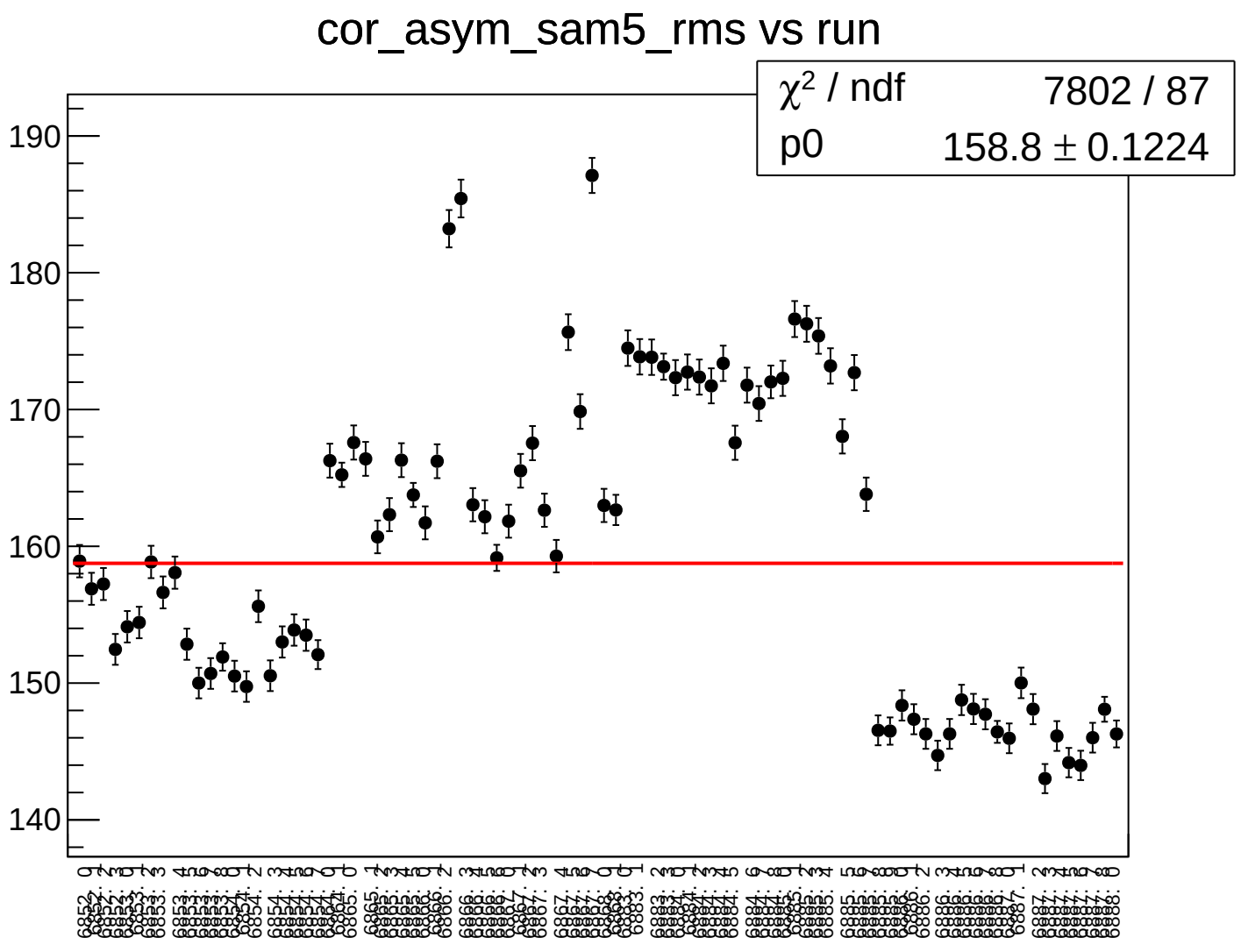
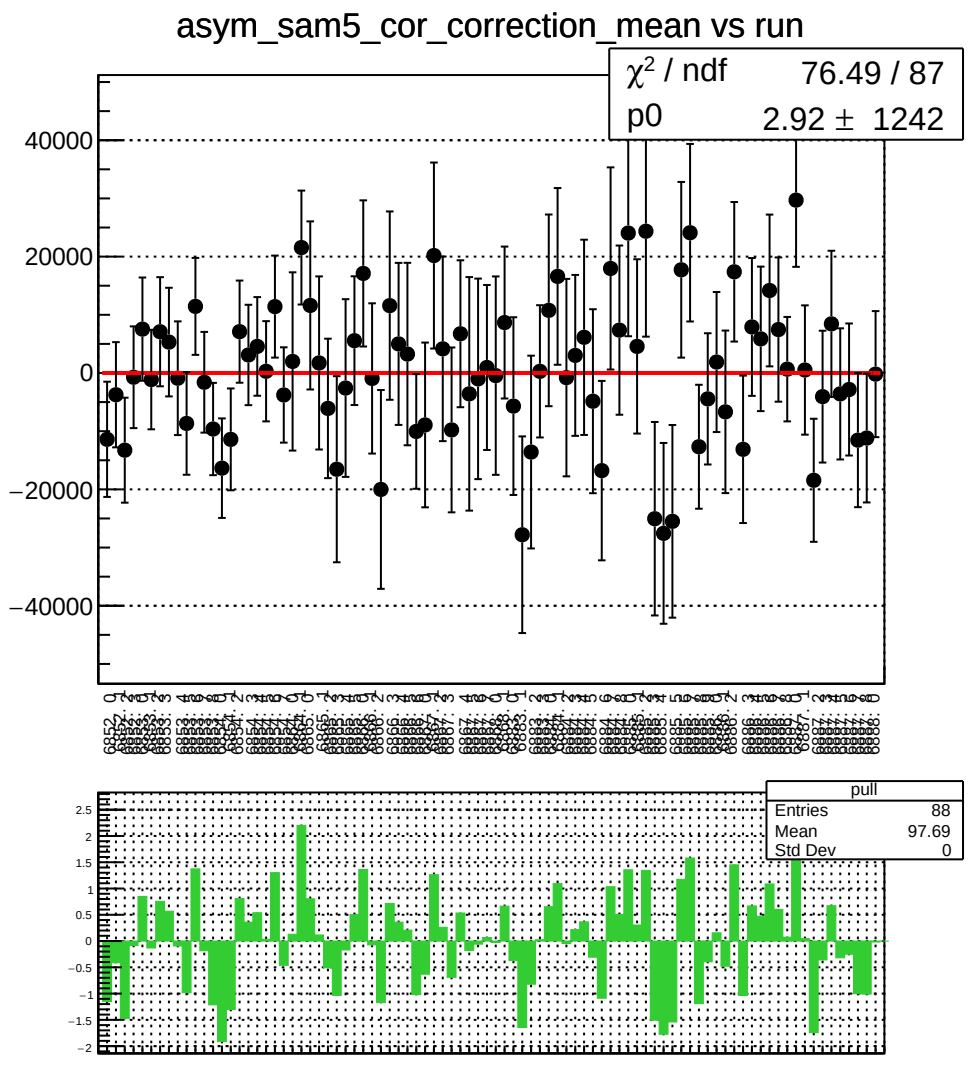
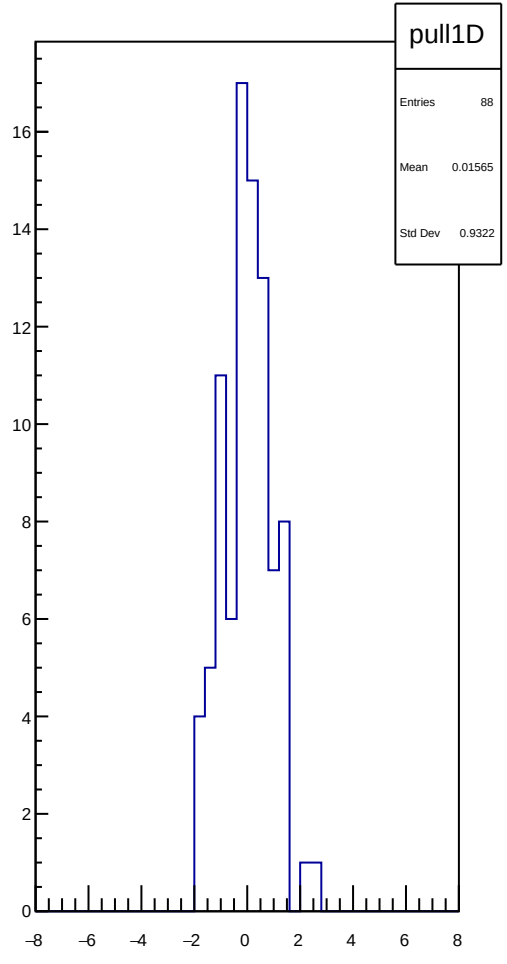
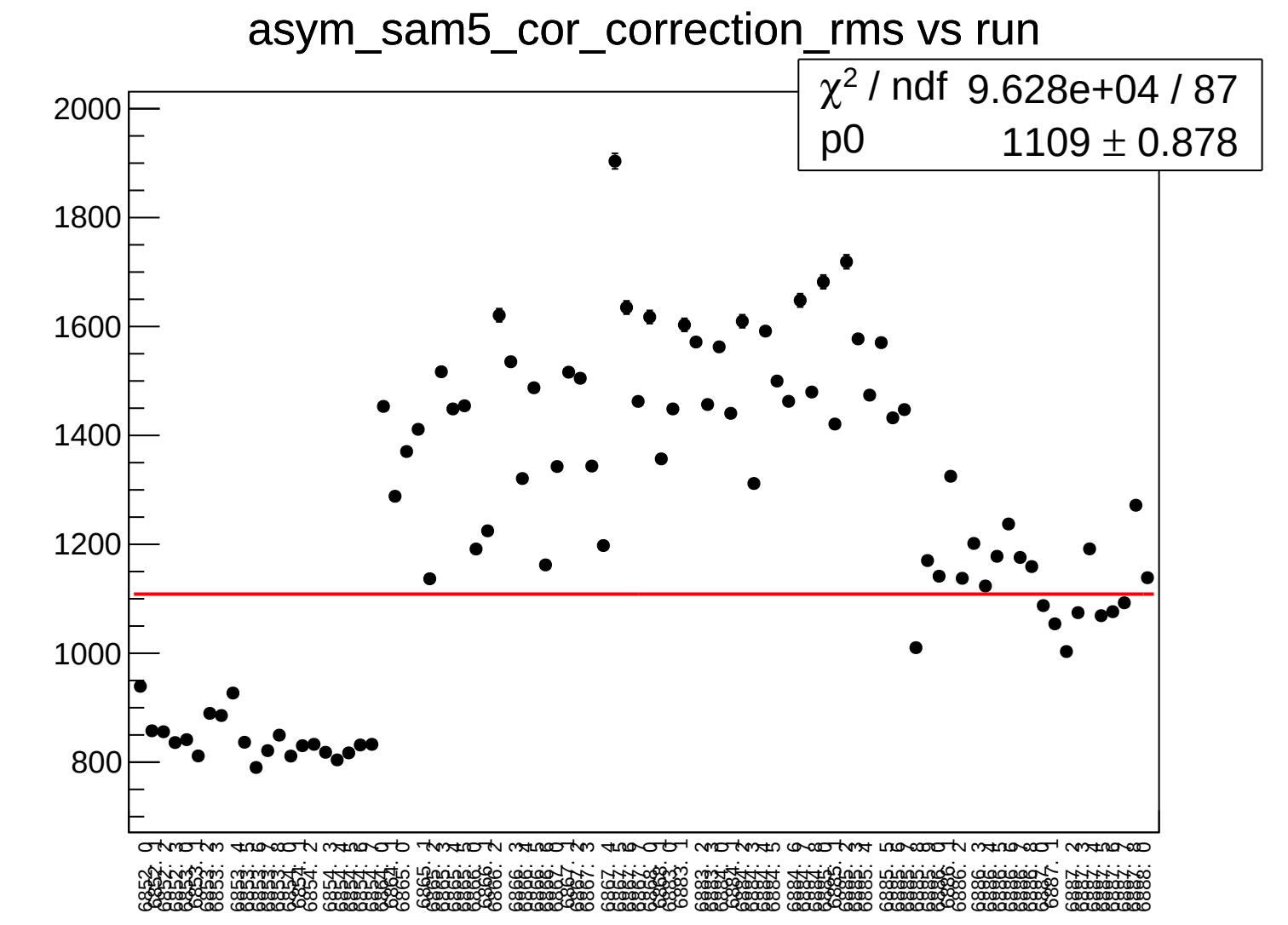
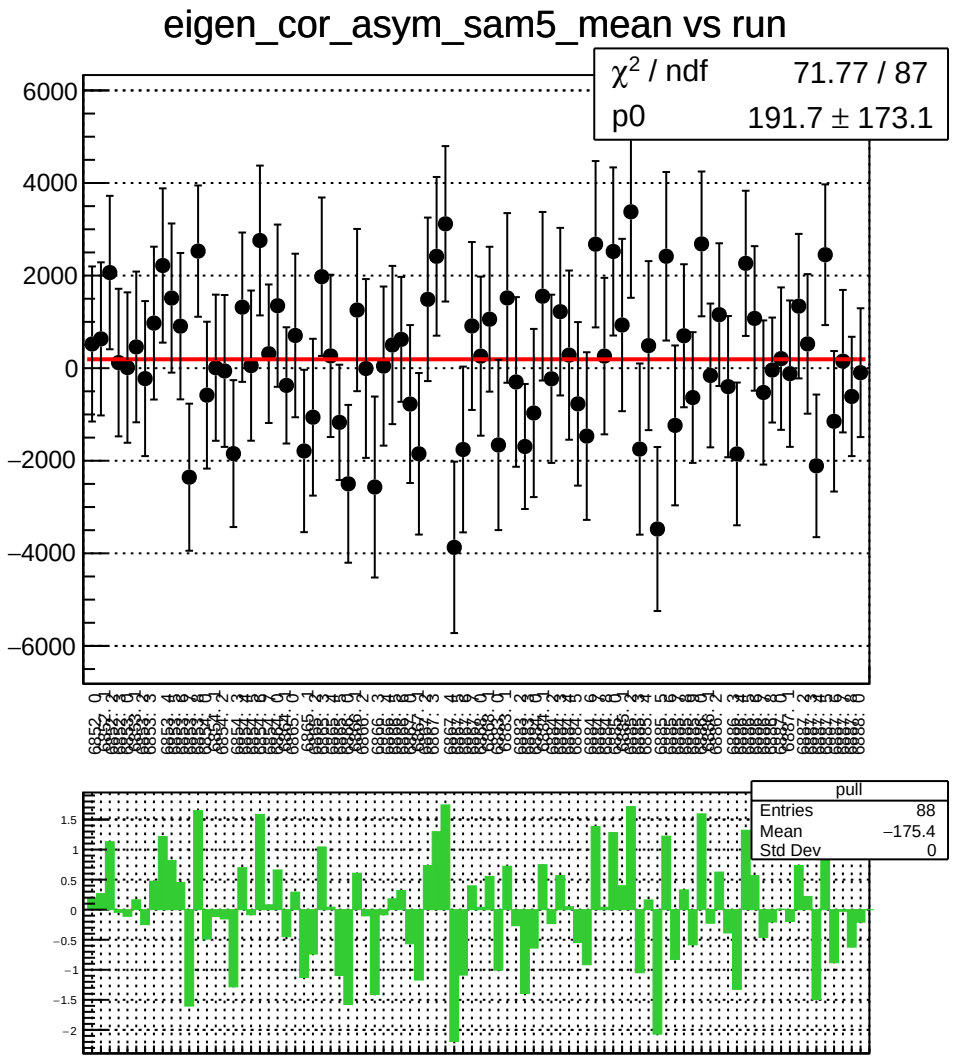
0
2
4
6
8

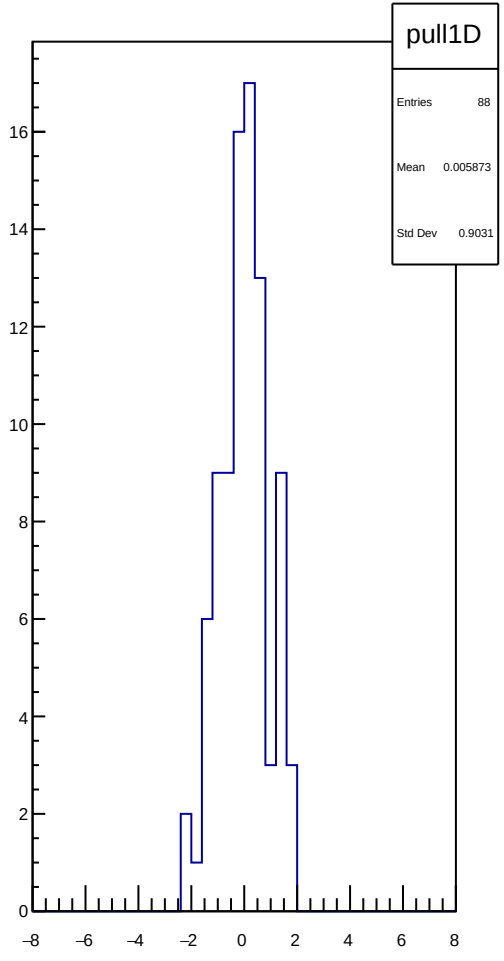

cor_asym_sam5_rms vs run
χ² / ndf 7802 / 87
p0 158.8 ± 0.1224
190
180
170
160
150
140


asym_sam5_cor_correction_mean vs run
χ² / ndf 76.49 / 87
p0 2.92 ± 1242
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 97.69
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean 0.01565
Std Dev 0.9322
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_cor_correction_rms vs run
χ² / ndf 9.628e+04 / 87
p0 1109 ± 0.878
2000
1800
1600
1400
1200
1000
800


eigen_cor_asym_sam5_mean vs run
χ² / ndf 71.77 / 87
p0 191.7 ± 173.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −175.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean 0.005873
Std Dev 0.9031
16
14
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10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
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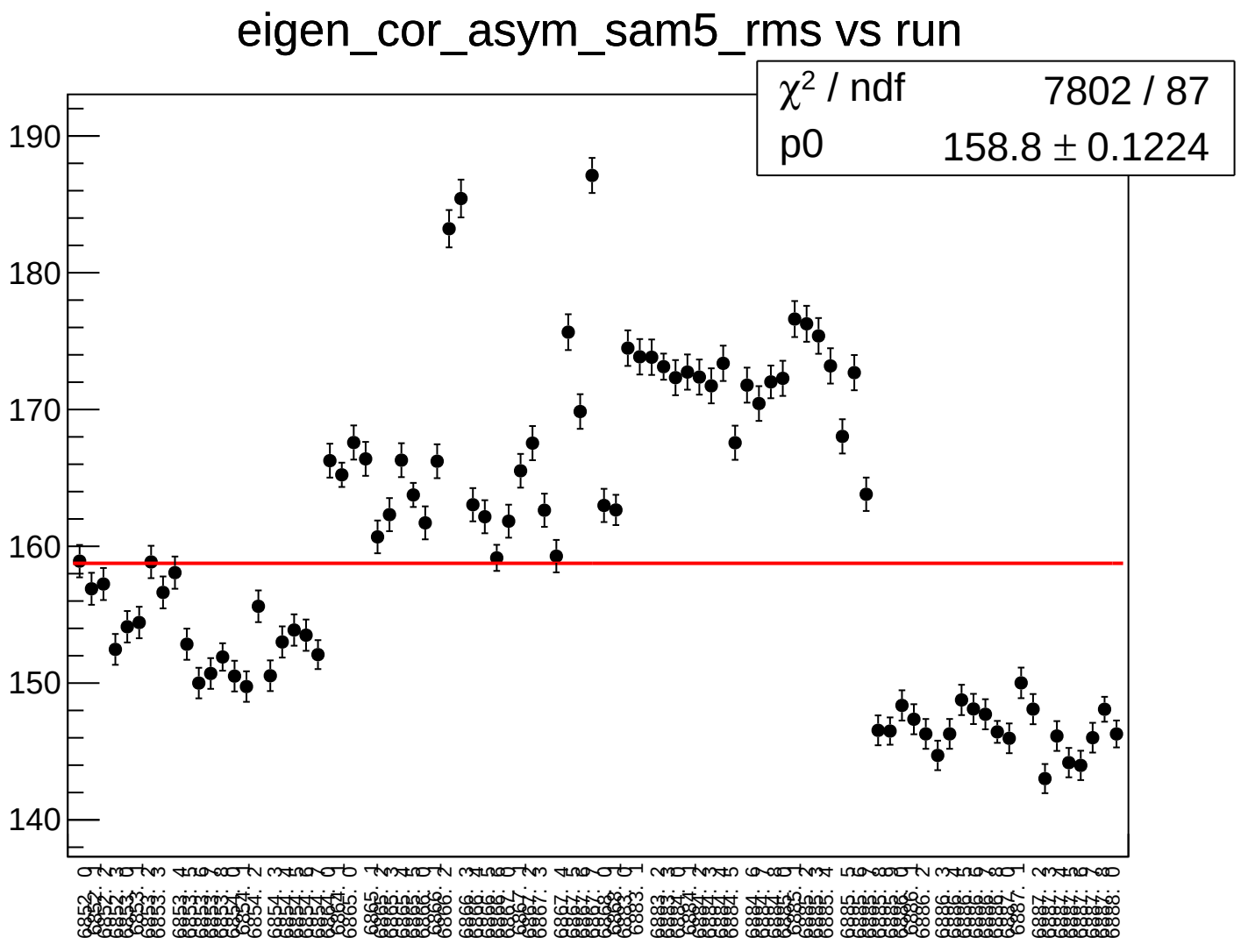
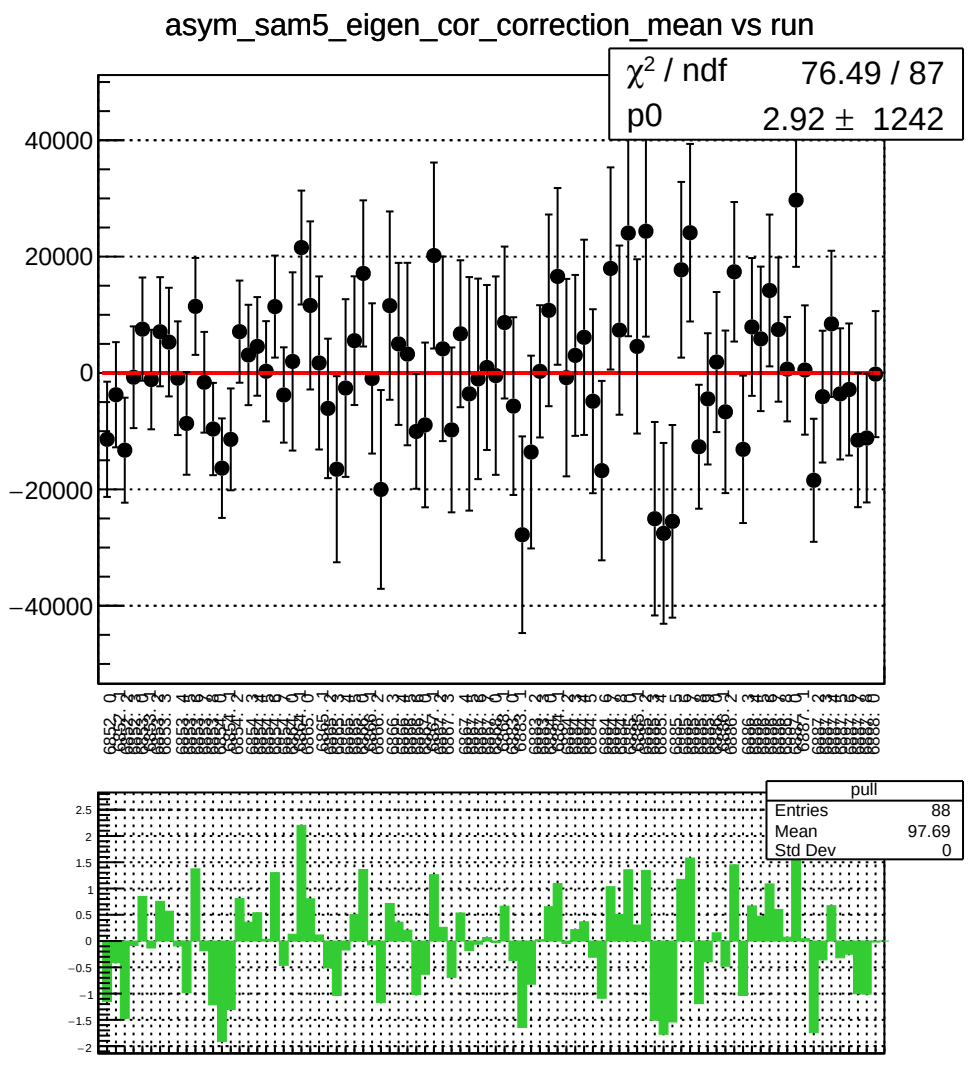
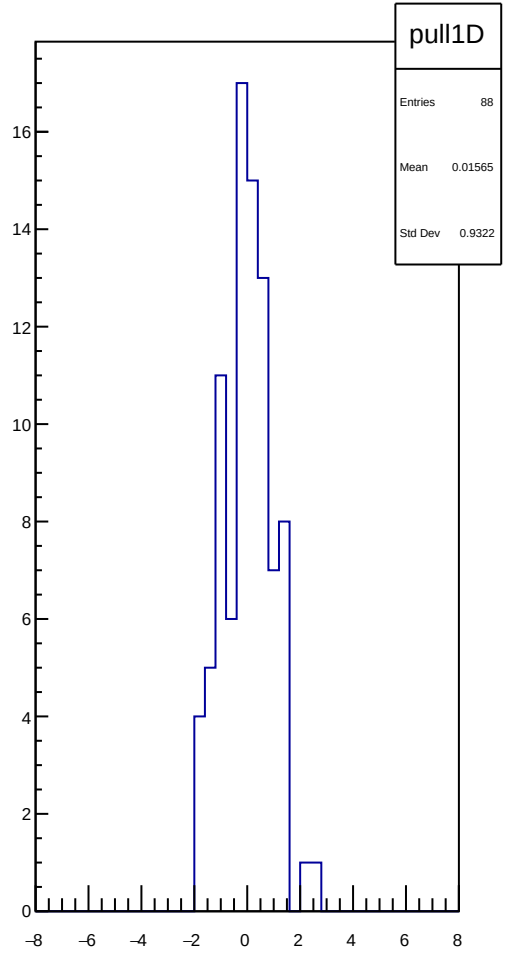
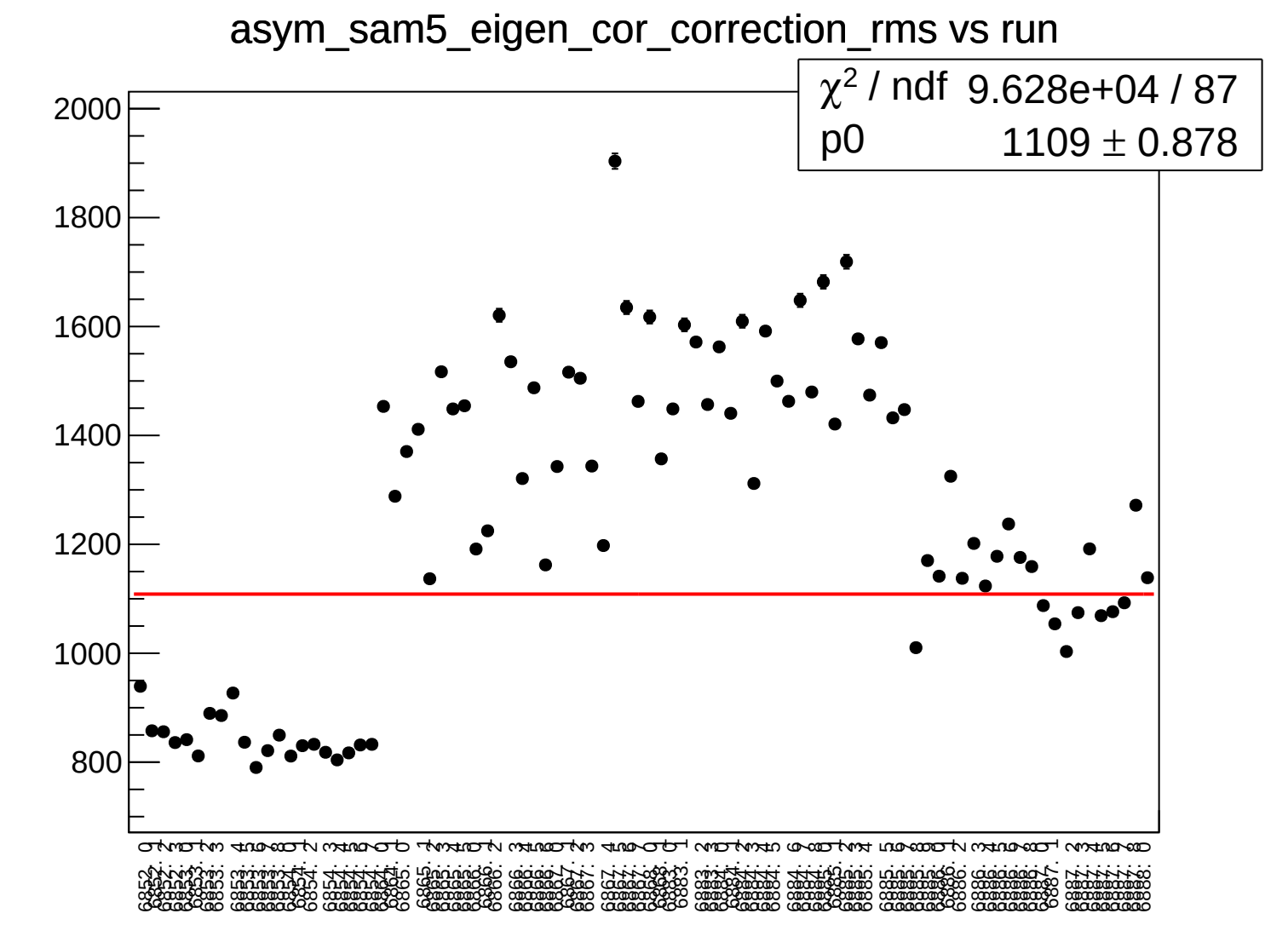
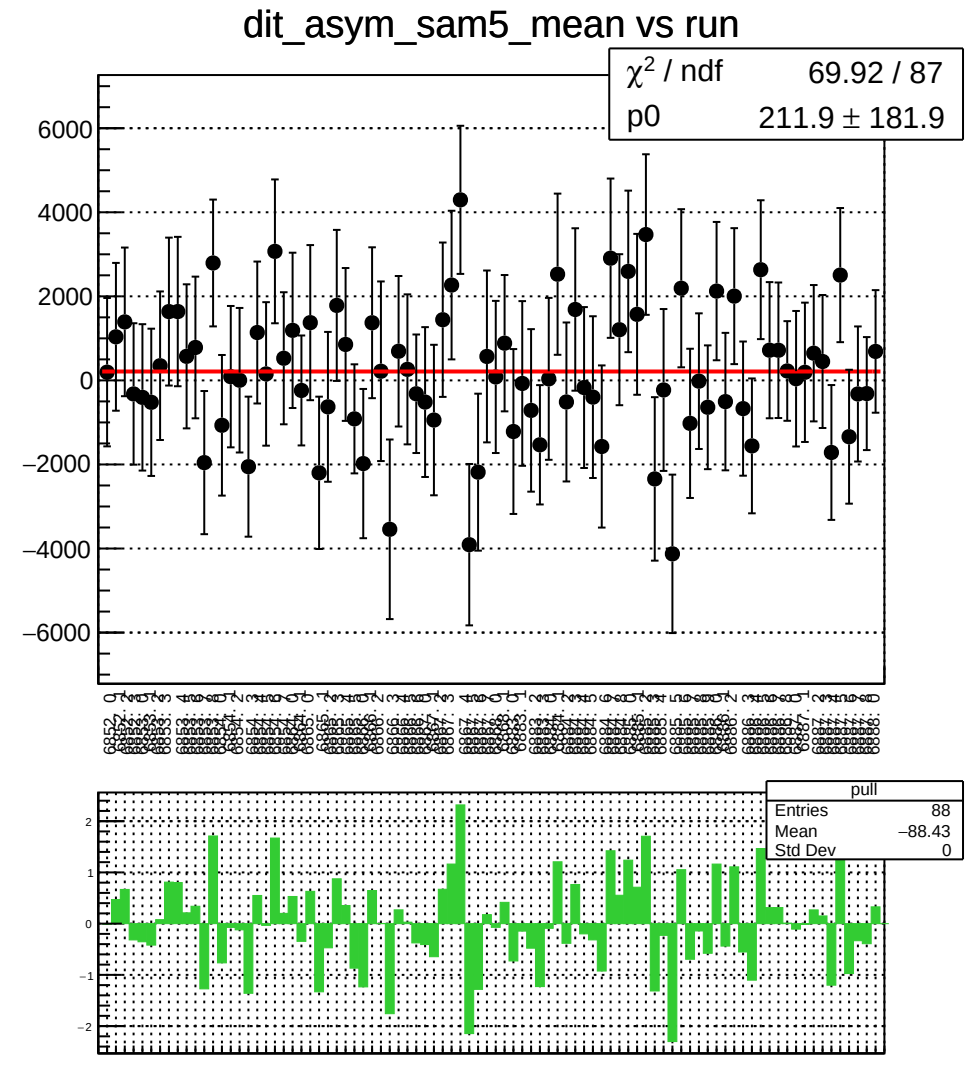
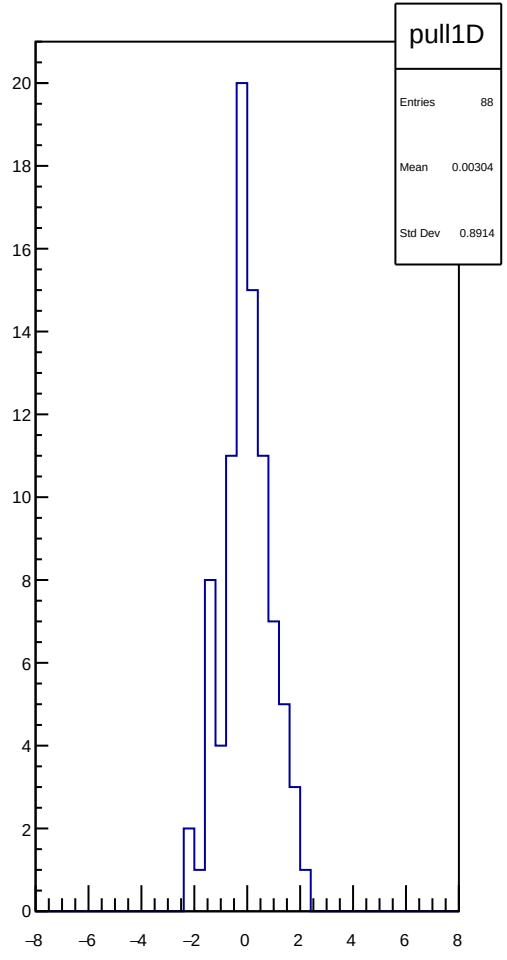

eigen_cor_asym_sam5_rms vs run
χ² / ndf 7802 / 87
p0 158.8 ± 0.1224
190
180
170
160
150
140

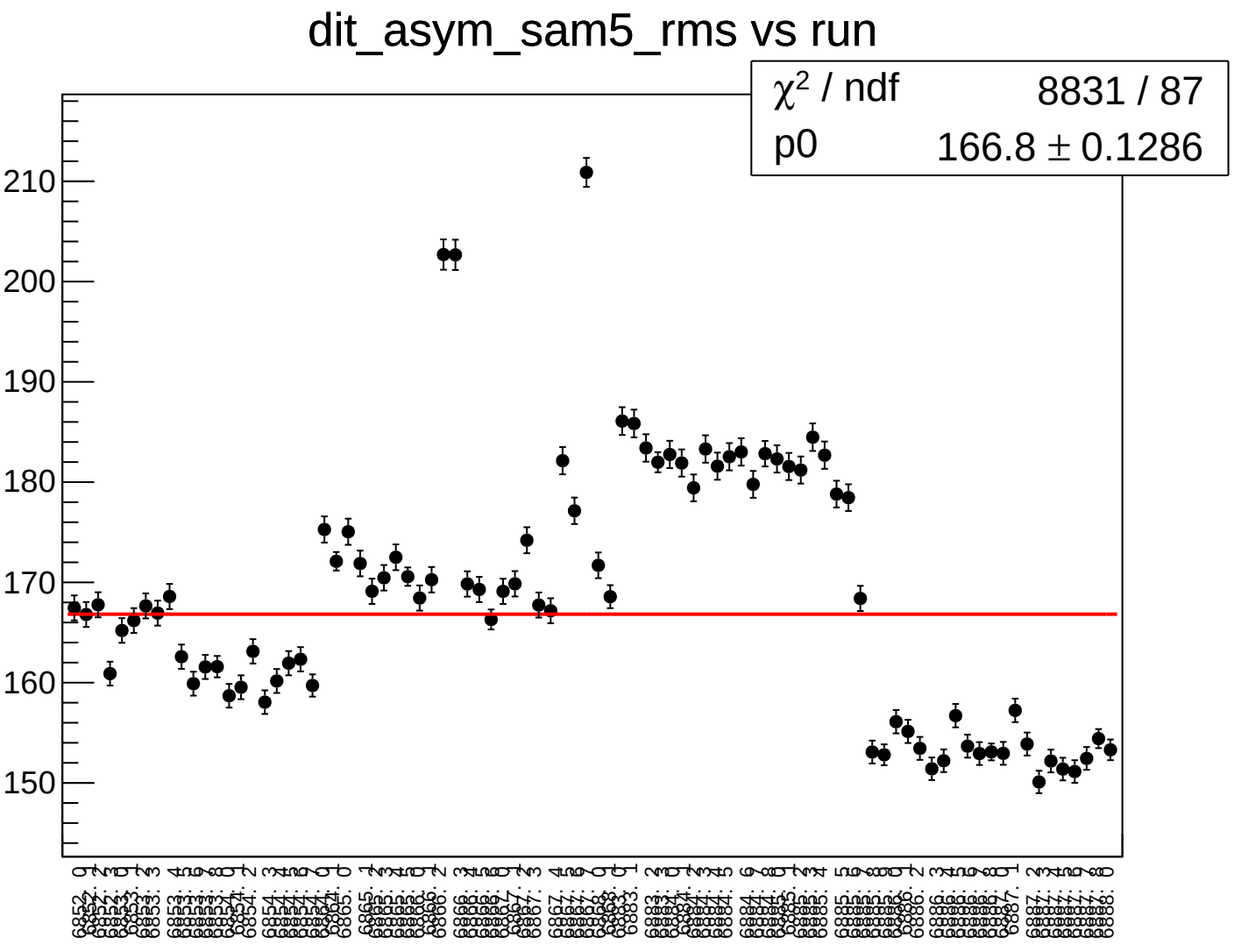

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 76.49 / 87
p0 2.92 ± 1242
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 97.69
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

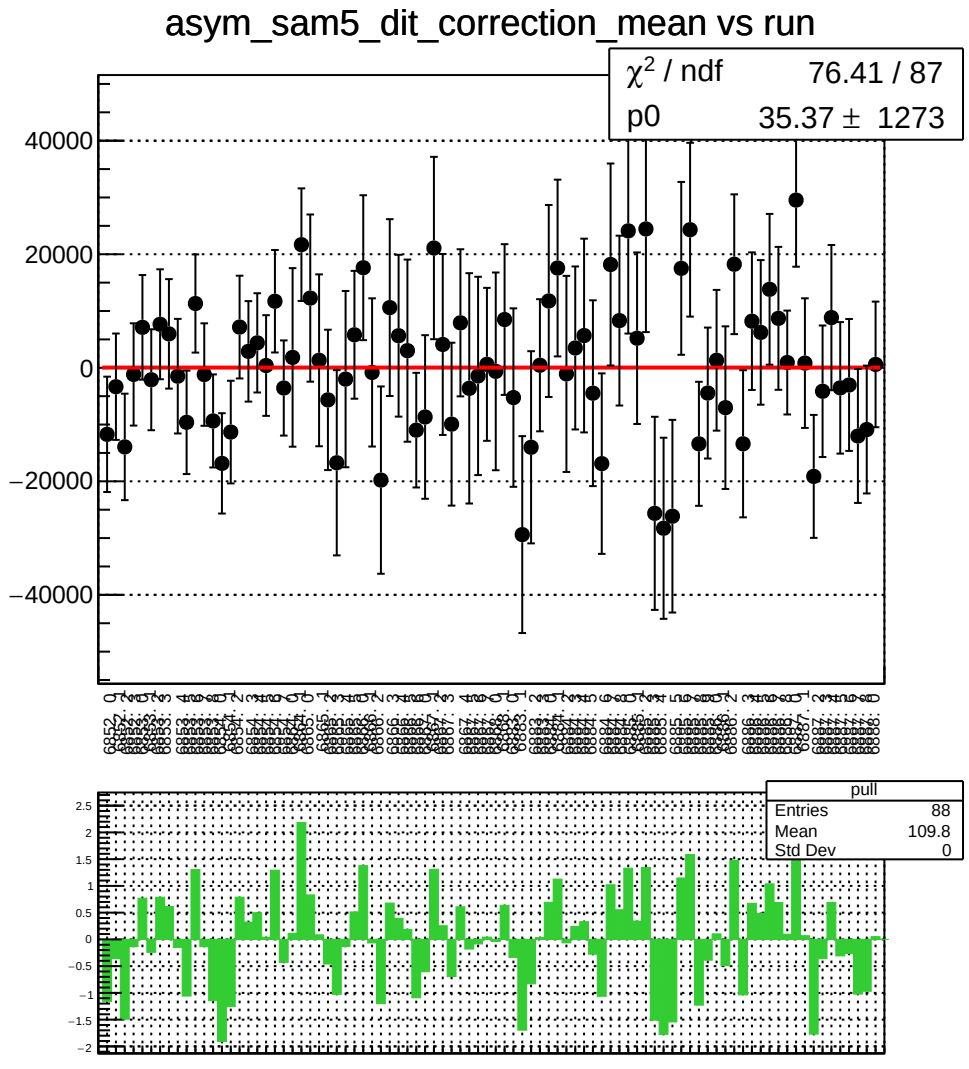

pull1D
Entries 88
Mean 0.01565
Std Dev 0.9322
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

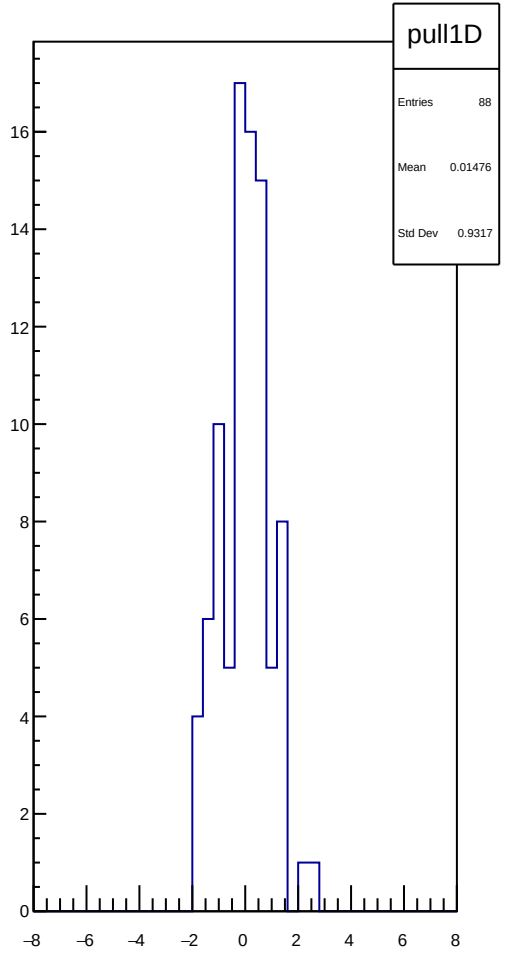

asym_sam5_eigen_cor_correction_rms vs run
χ^2 / ndf 9.628e+04 / 87
p0 1109 ± 0.878
2000
1800
1600
1400
1200
1000
800

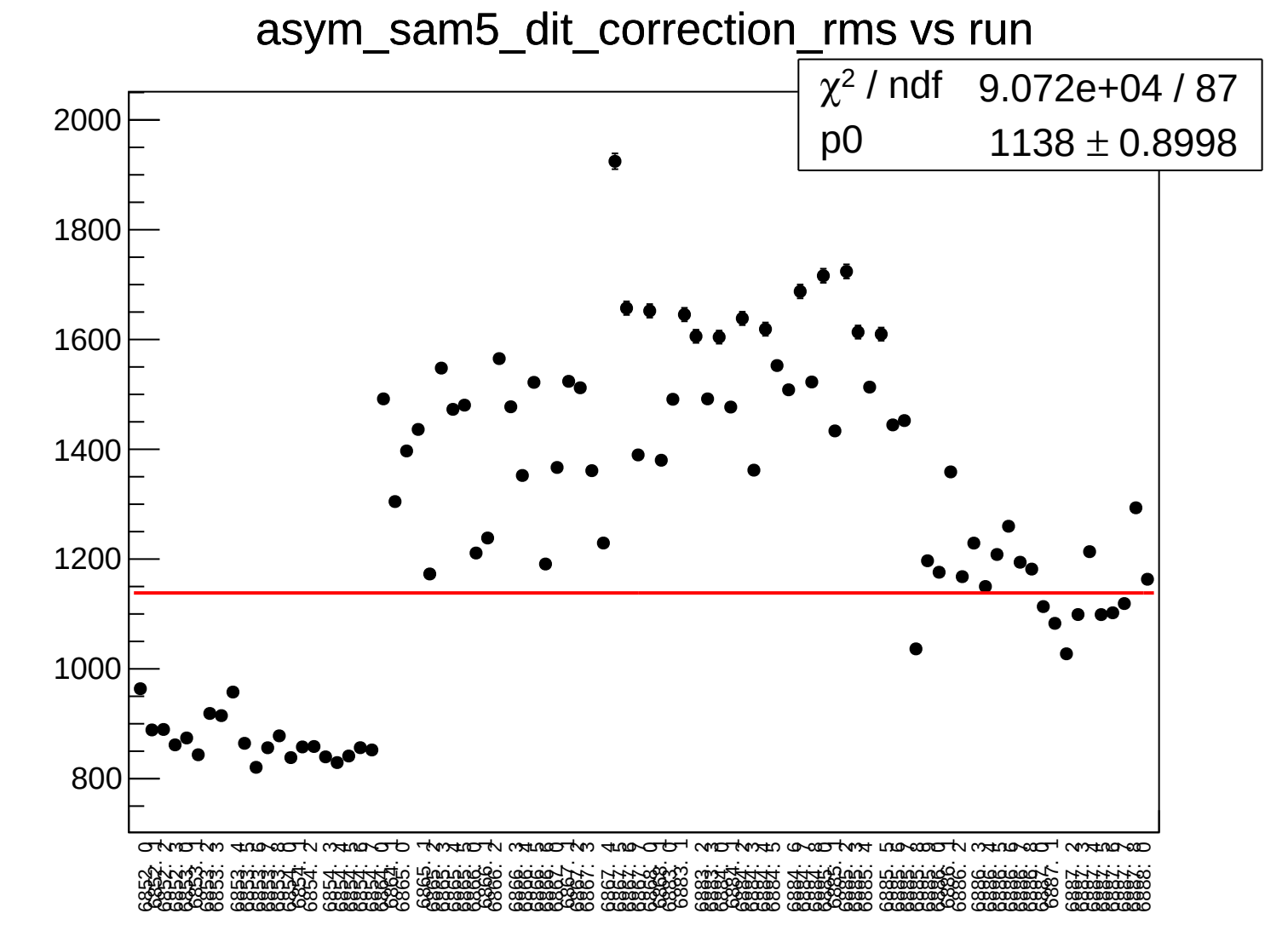

dit_asym_sam5_mean vs run
χ^2 / ndf 69.92 / 87
p0 211.9 ± 181.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −88.43
Std Dev 0
2
1
0
−1
−2

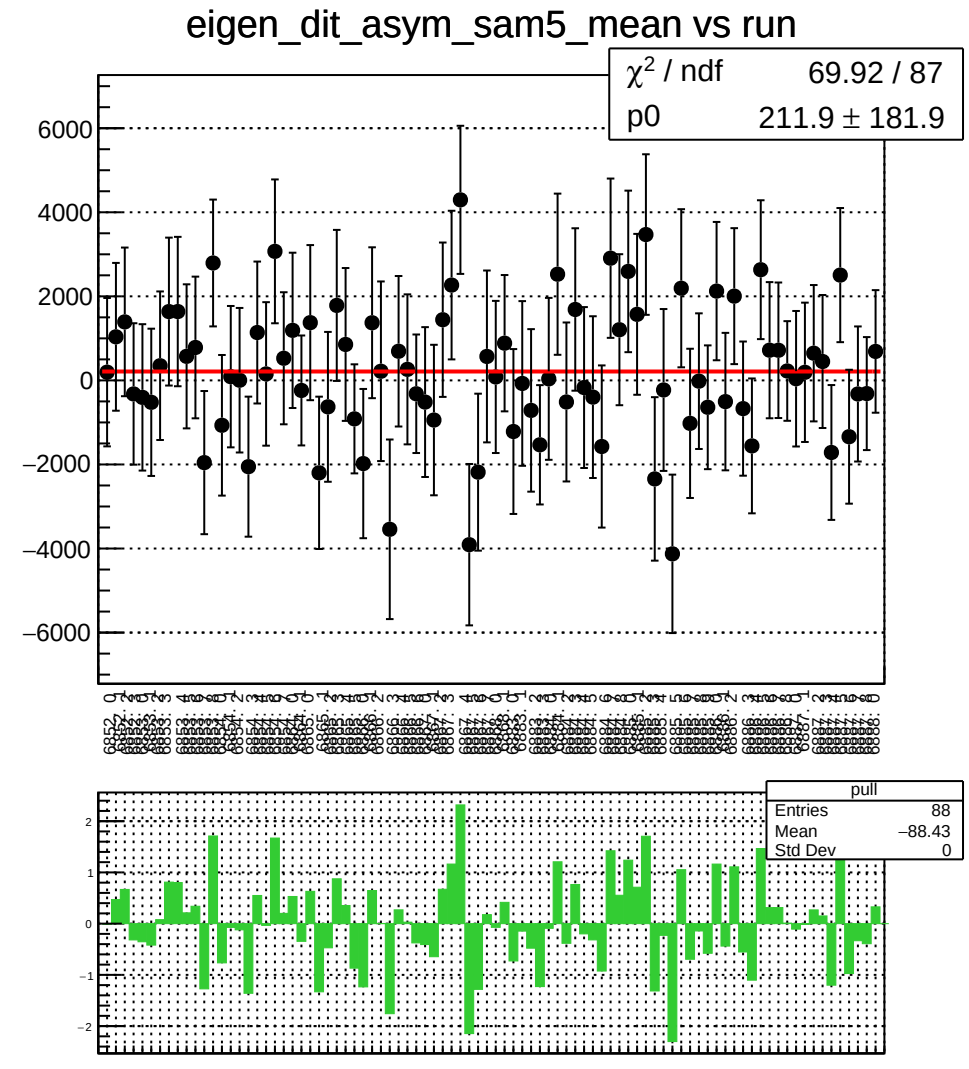

pull1D
Entries 88
Mean 0.00304
Std Dev 0.8914
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

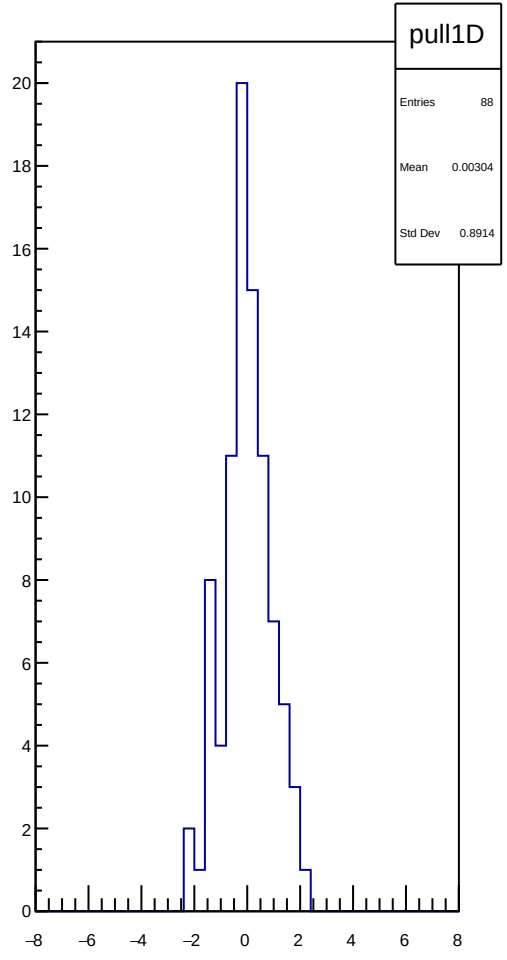

dit_asym_sam5_rms vs run
χ² / ndf 8831 / 87
p0 166.8 ± 0.1286
210
200
190
180
170
160
150

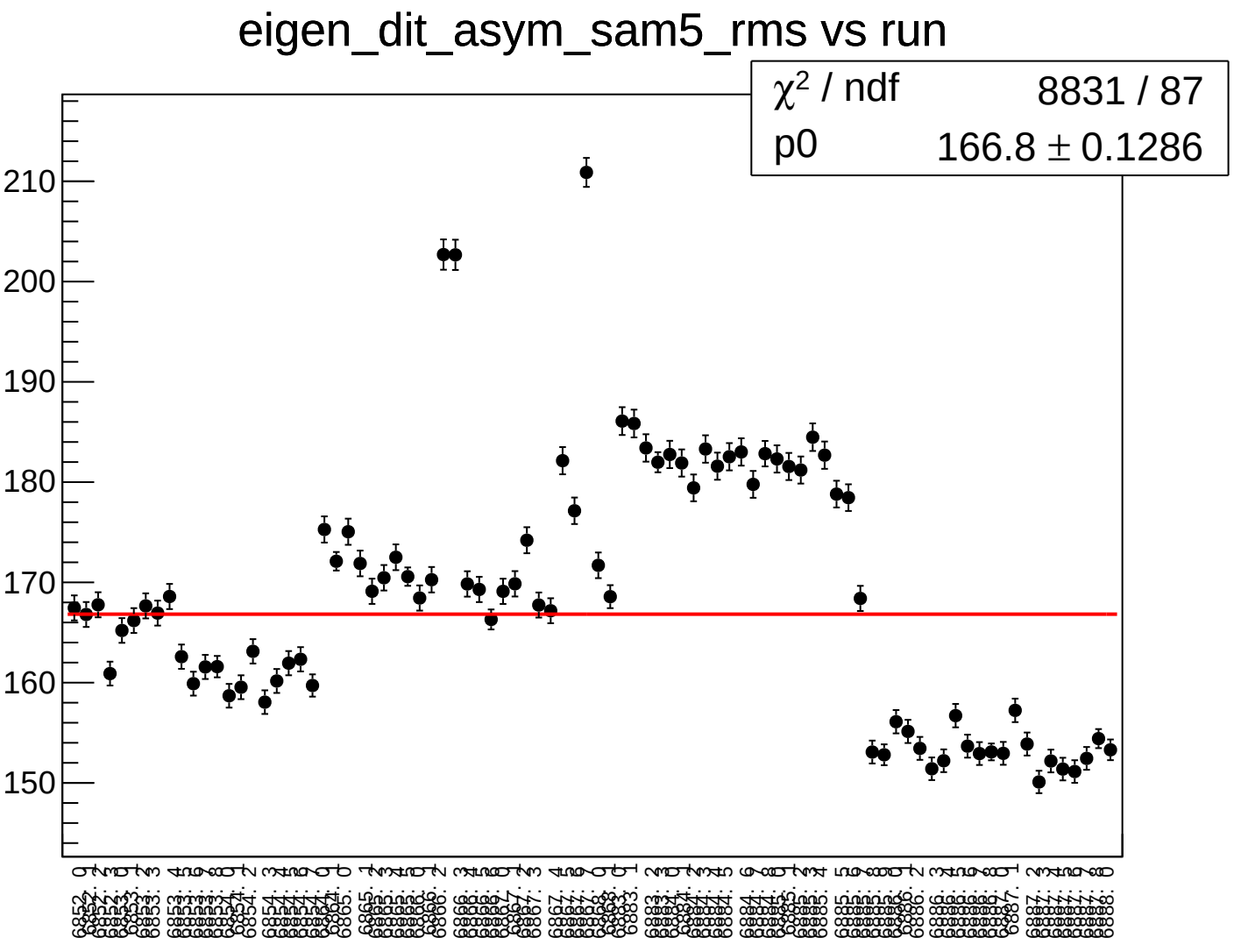

asym_sam5_dit_correction_mean vs run
χ² / ndf 76.41 / 87
p0 35.37 ± 1273
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 109.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

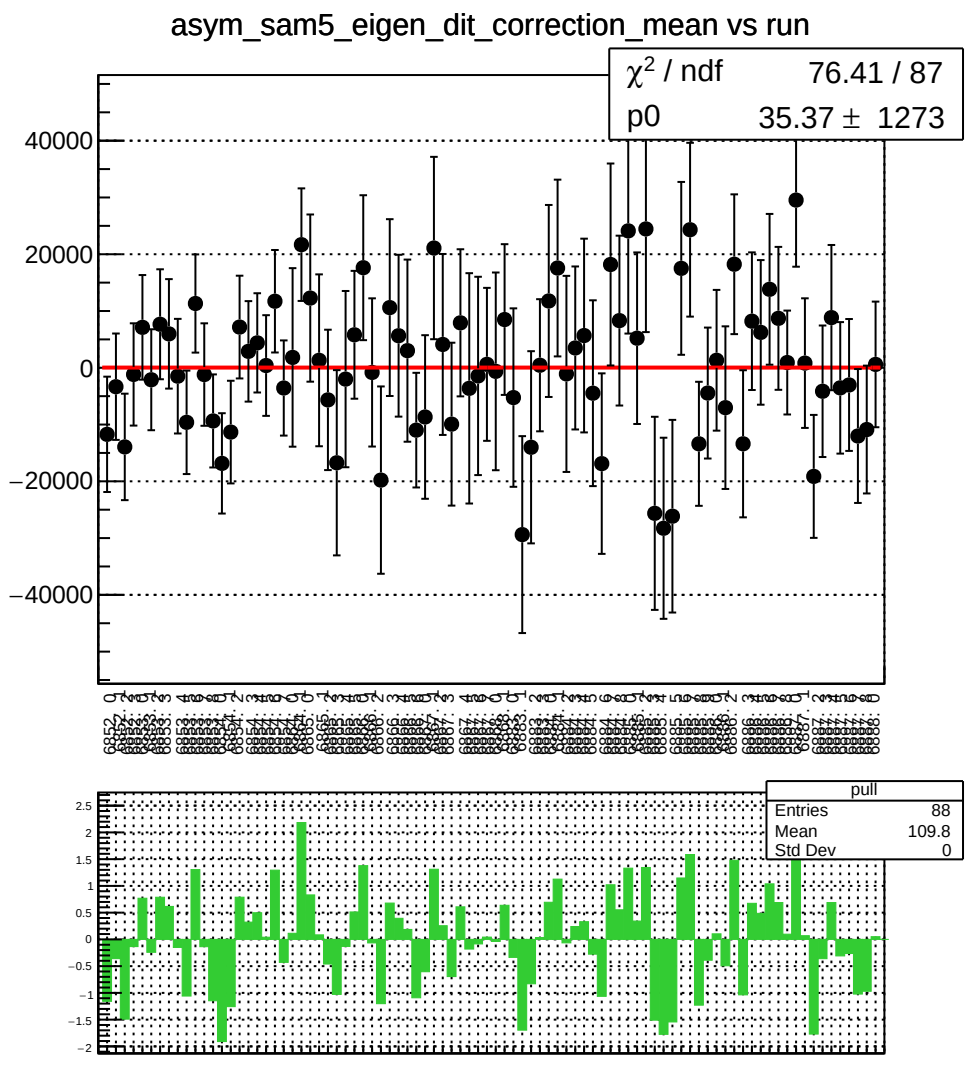

pull1D
Entries 88
Mean 0.01476
Std Dev 0.9317
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

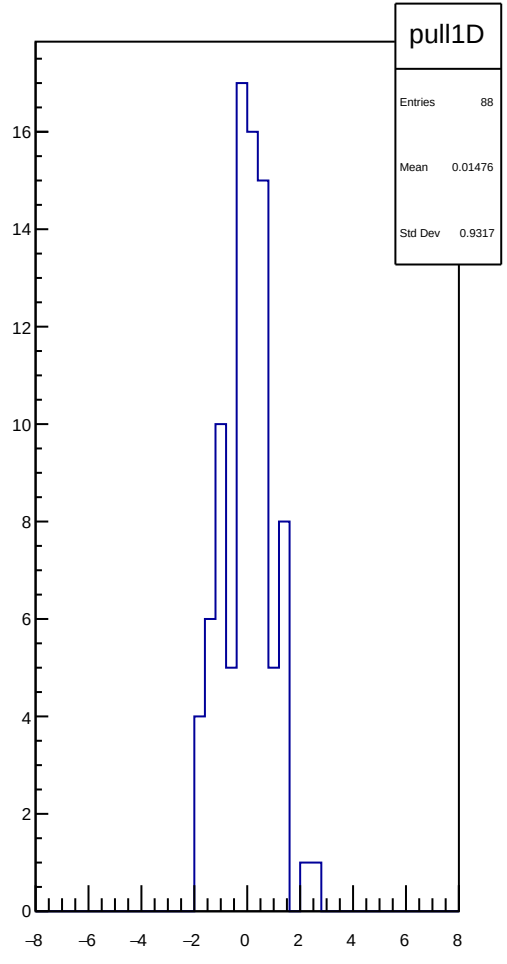

asym_sam5_dit_correction_rms vs run
χ² / ndf 9.072e+04 / 87
p0 1138 ± 0.8998
2000
1800
1600
1400
1200
1000
800

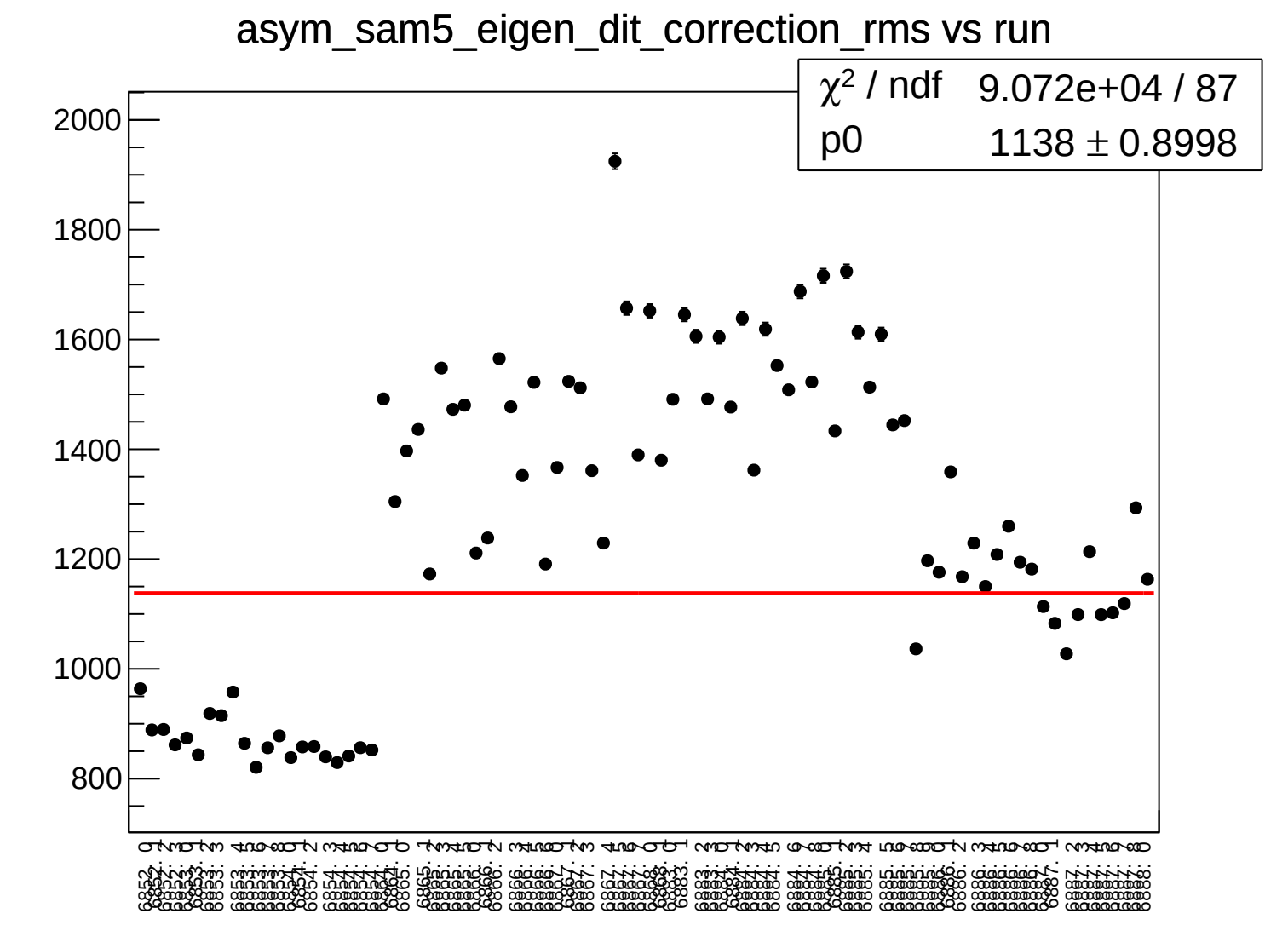

eigen_dit_asym_sam5_mean vs run
χ² / ndf 69.92 / 87
p0 211.9 ± 181.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −88.43
Std Dev 0
2
1
0
−1
−2

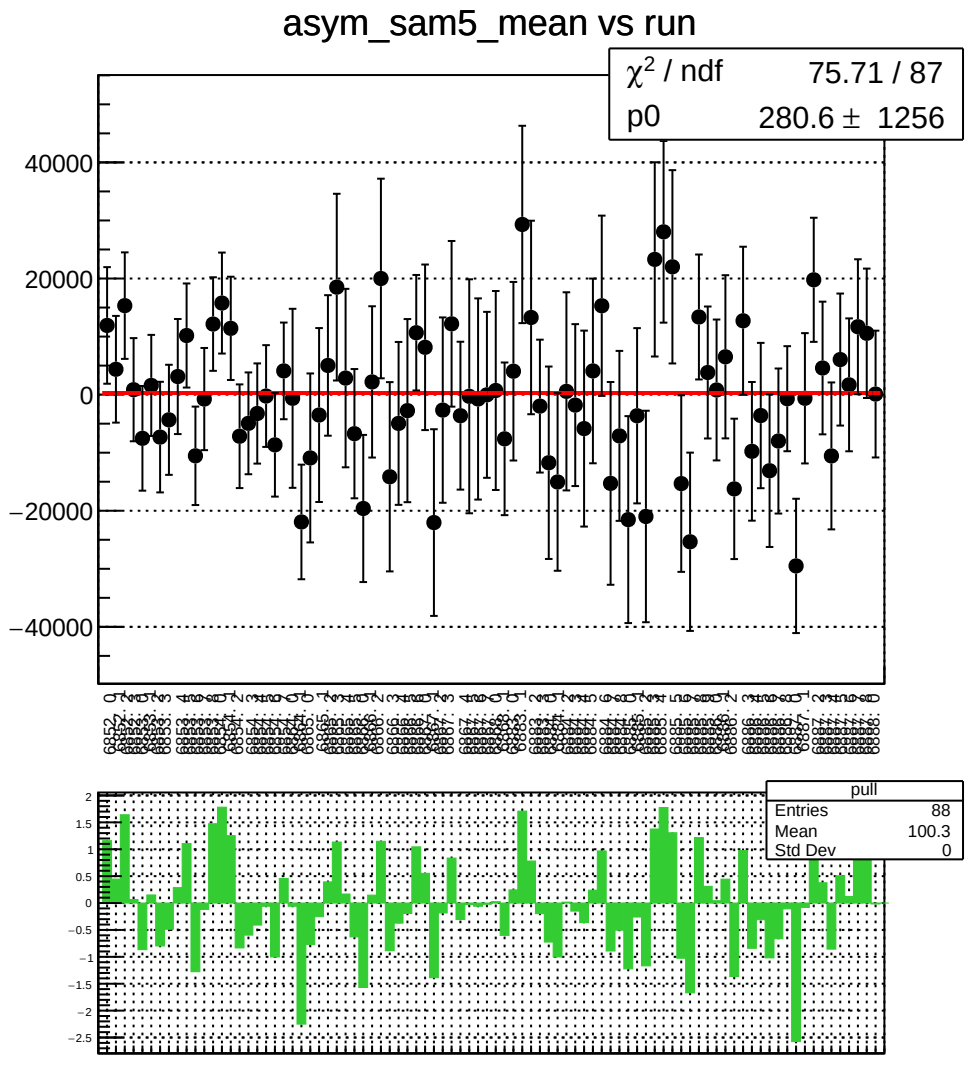

pull1D
Entries 88
Mean 0.00304
Std Dev 0.8914
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

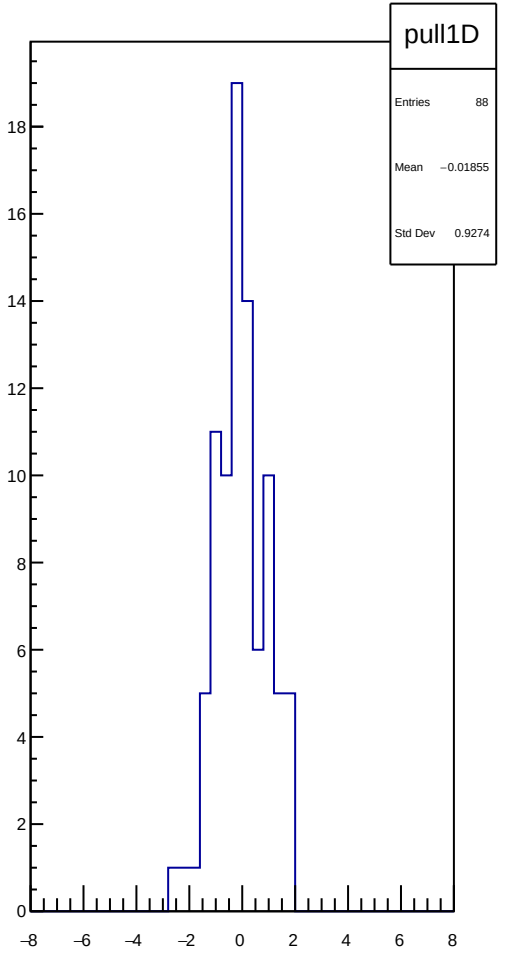

eigen_dit_asym_sam5_rms vs run
χ² / ndf 8831 / 87
p0 166.8 ± 0.1286
210
200
190
180
170
160
150

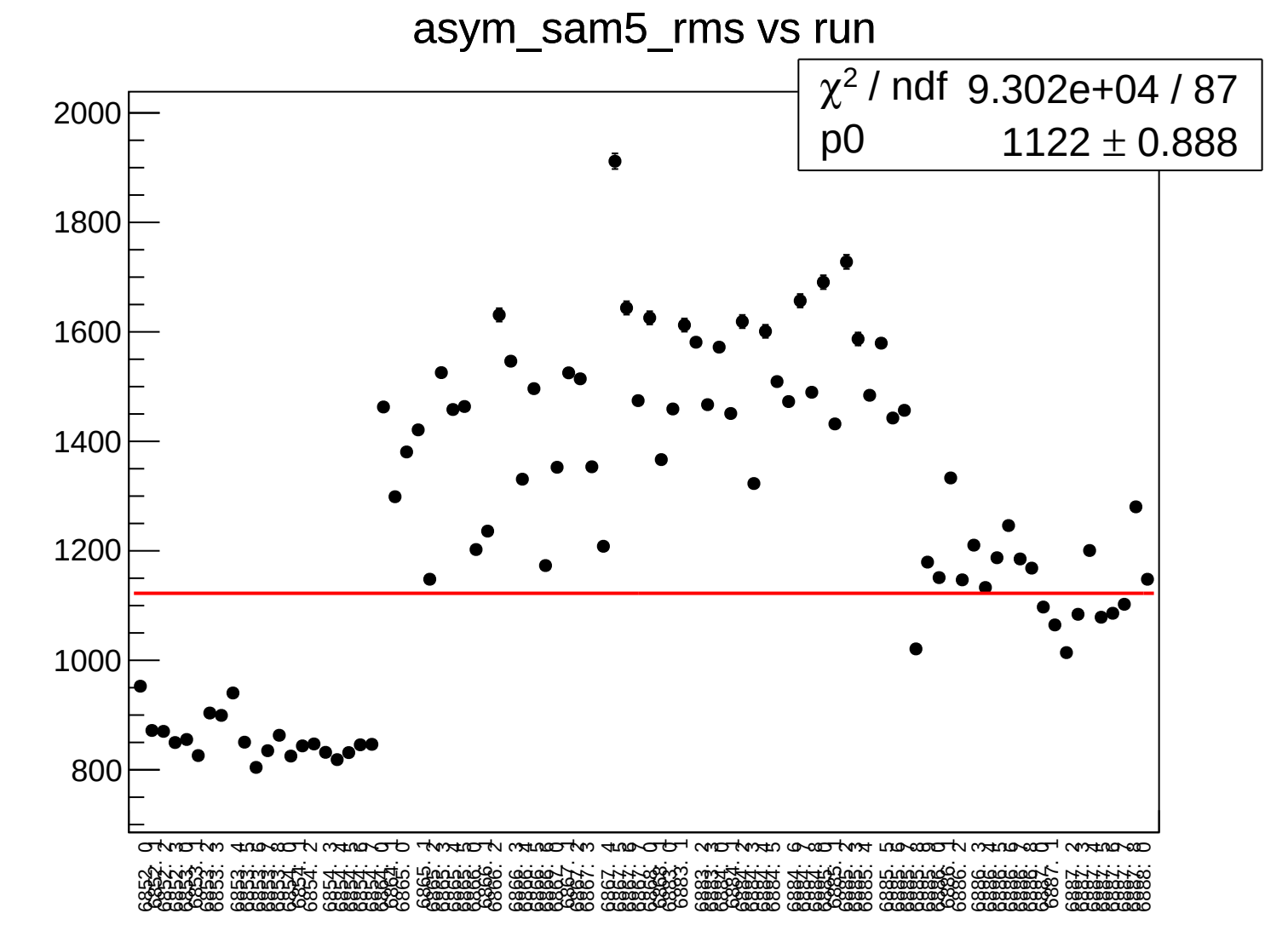

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 76.41 / 87
p0 35.37 ± 1273
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 109.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

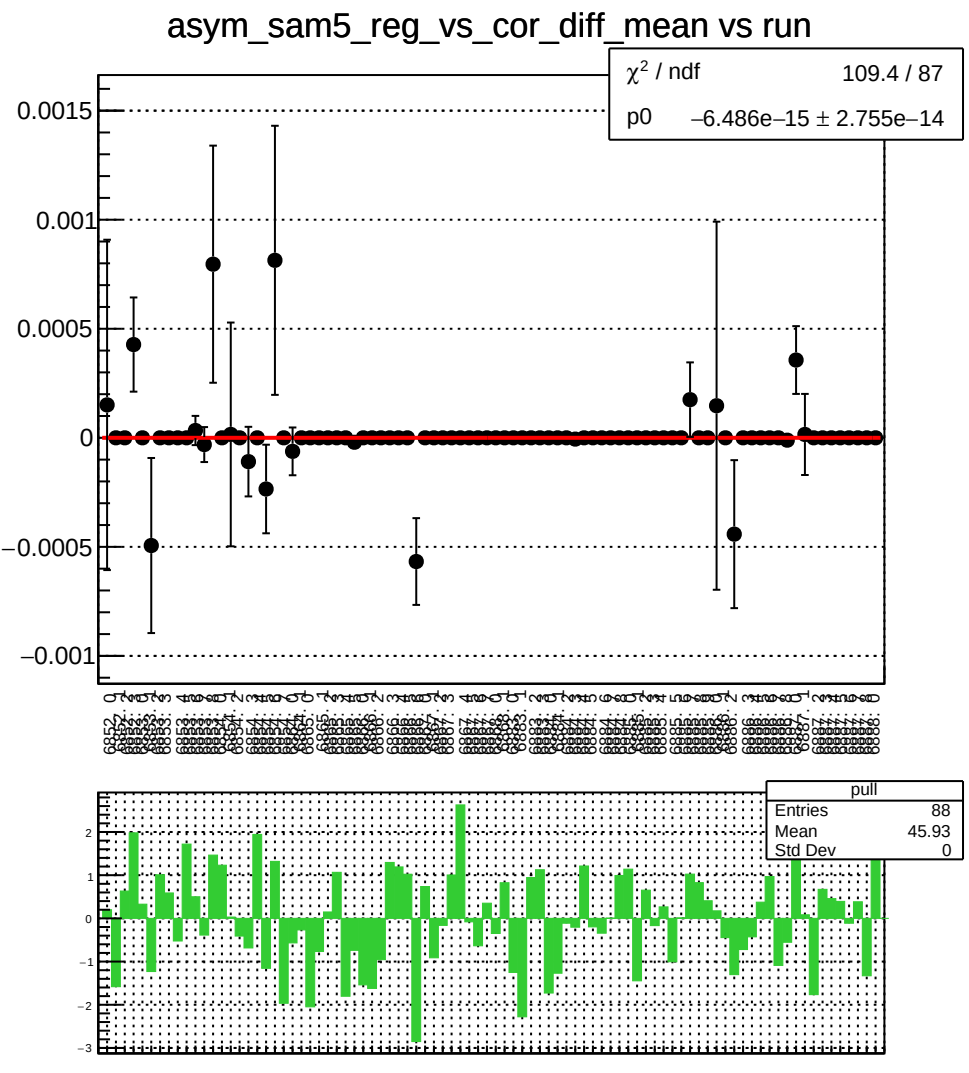

pull1D
Entries 88
Mean 0.01476
Std Dev 0.9317
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

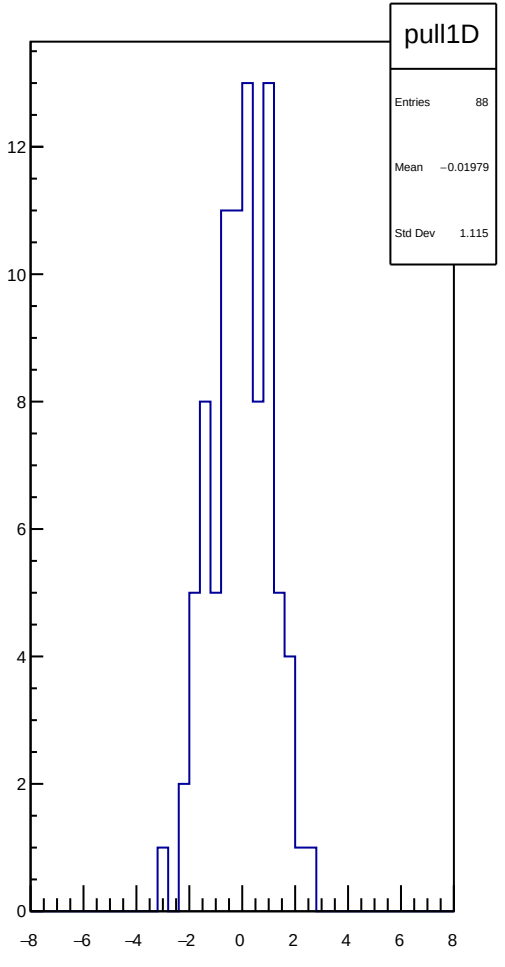

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 9.072e+04 / 87
p0 1138 ± 0.8998
2000
1800
1600
1400
1200
1000
800

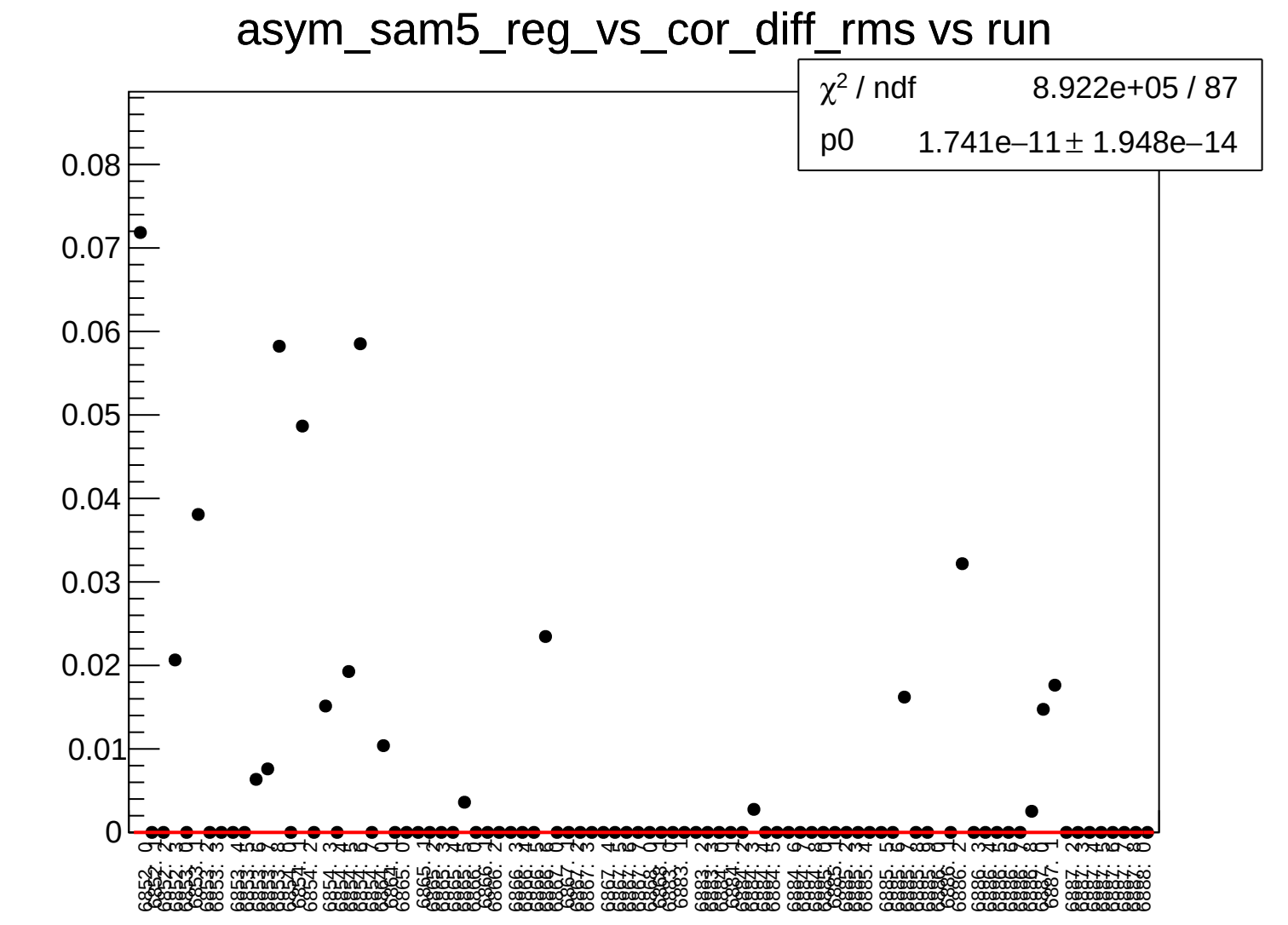

asym_sam5_mean vs run
χ² / ndf 75.71 / 87
p0 280.6 ± 1256
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 100.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

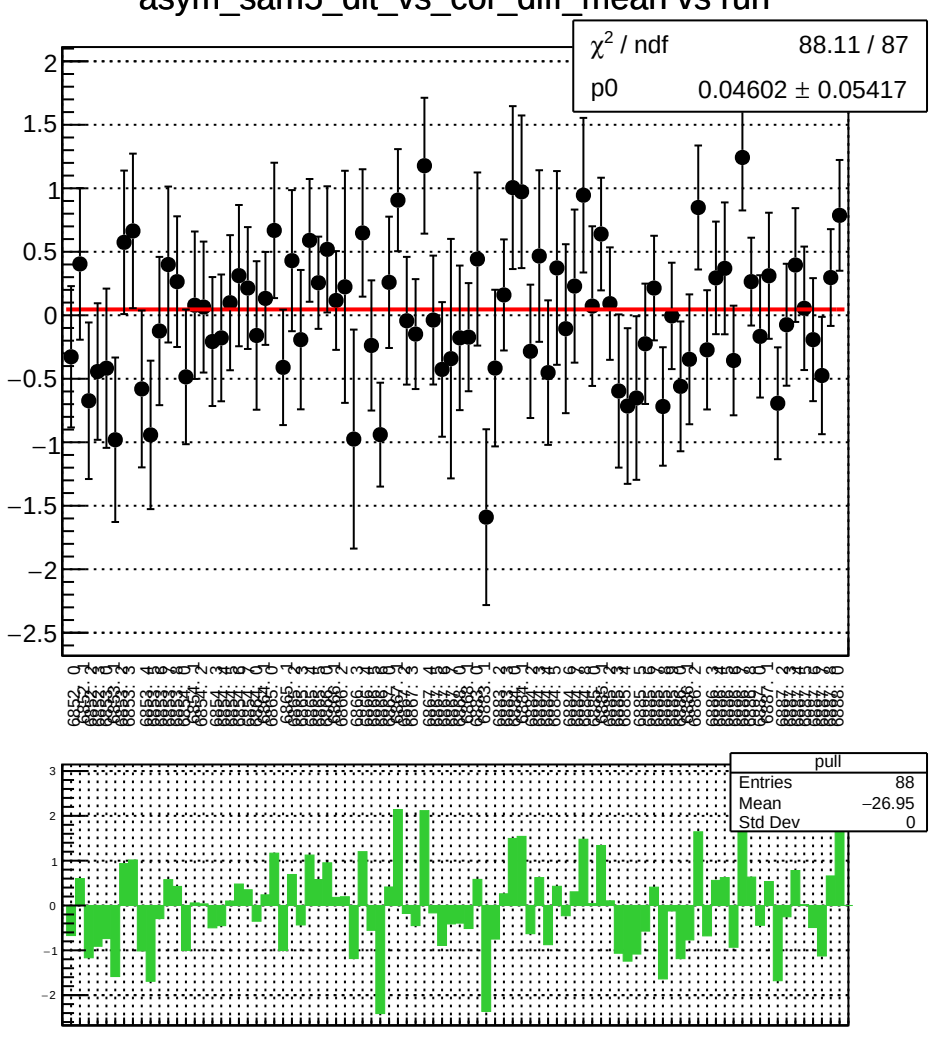

pull1D
Entries 88
Mean −0.01855
Std Dev 0.9274
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

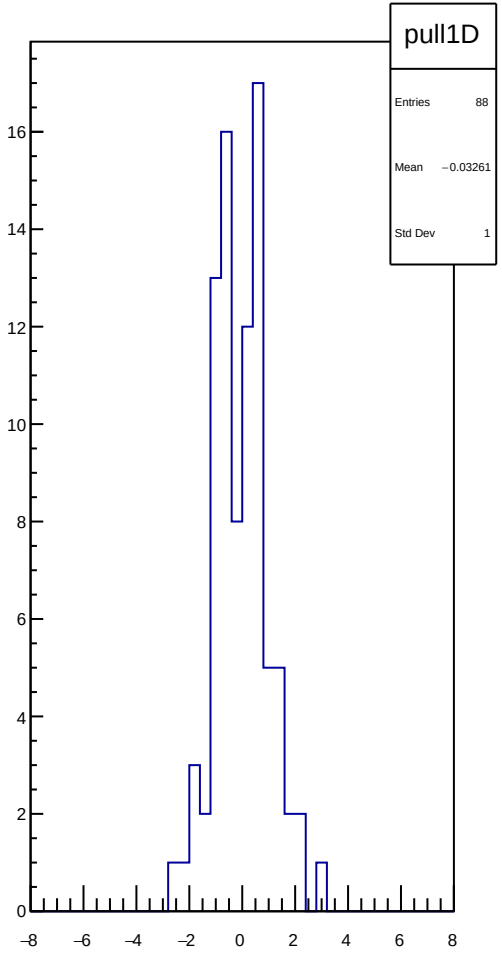

asym_sam5_rms vs run
χ^2 / ndf 9.302e+04 / 87
p0 1122 ± 0.888
2000
1800
1600
1400
1200
1000
800

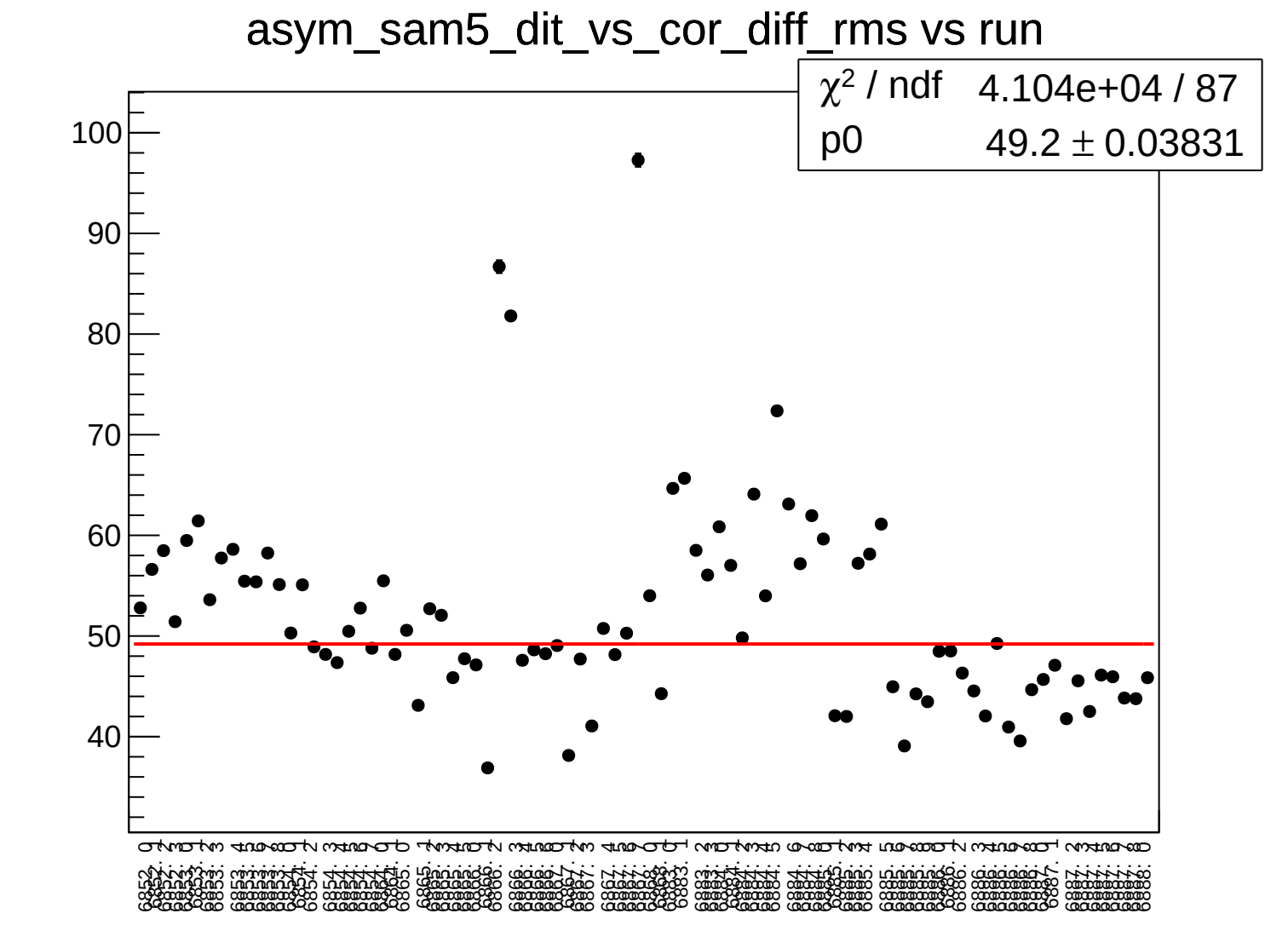

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 87
p0 −6.486e−15 ± 2.755e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 45.93
Std Dev 0
2
1
0
−1
−2
−3

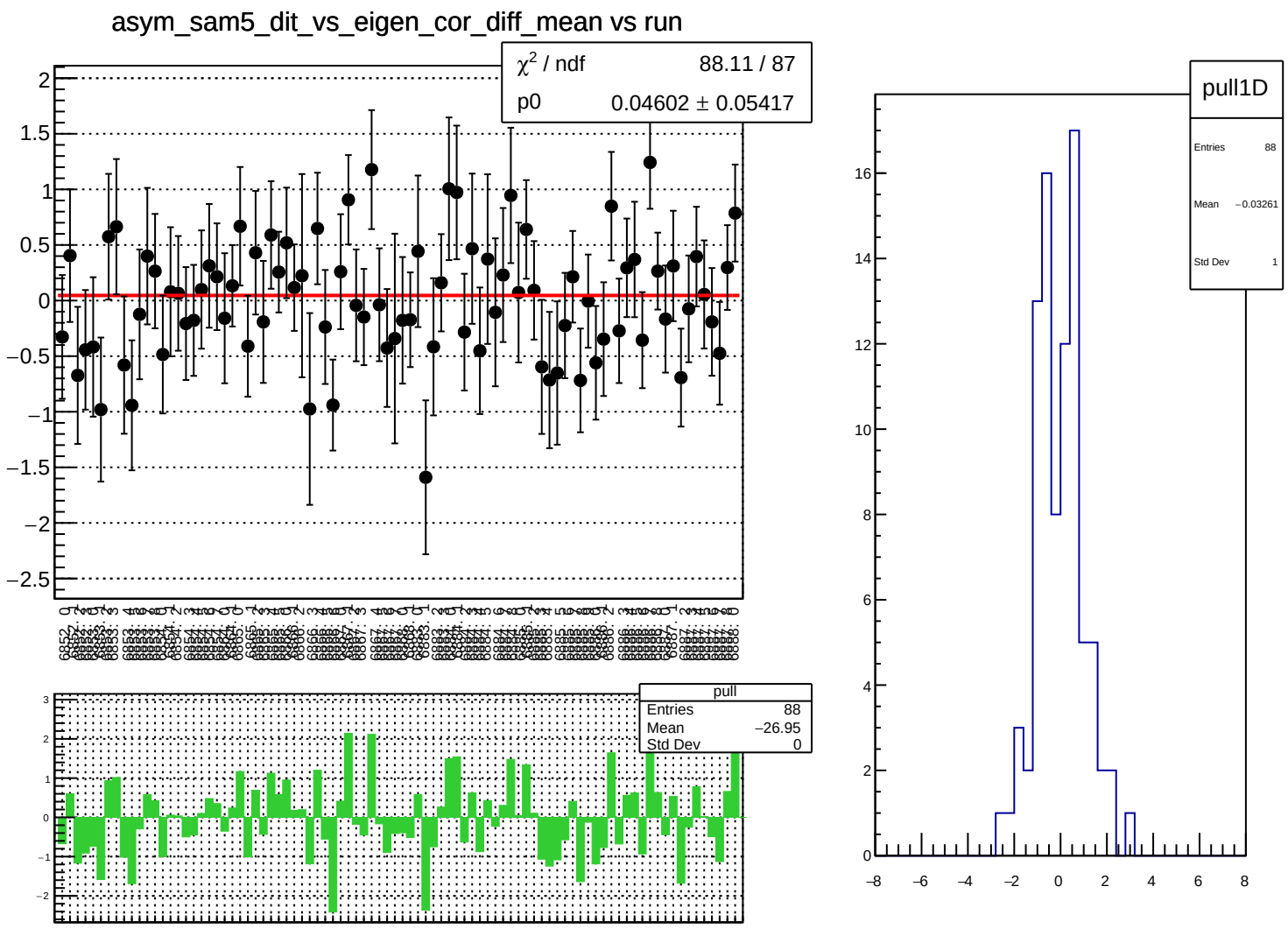

pull1D
Entries 88
Mean −0.01979
Std Dev 1.115
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

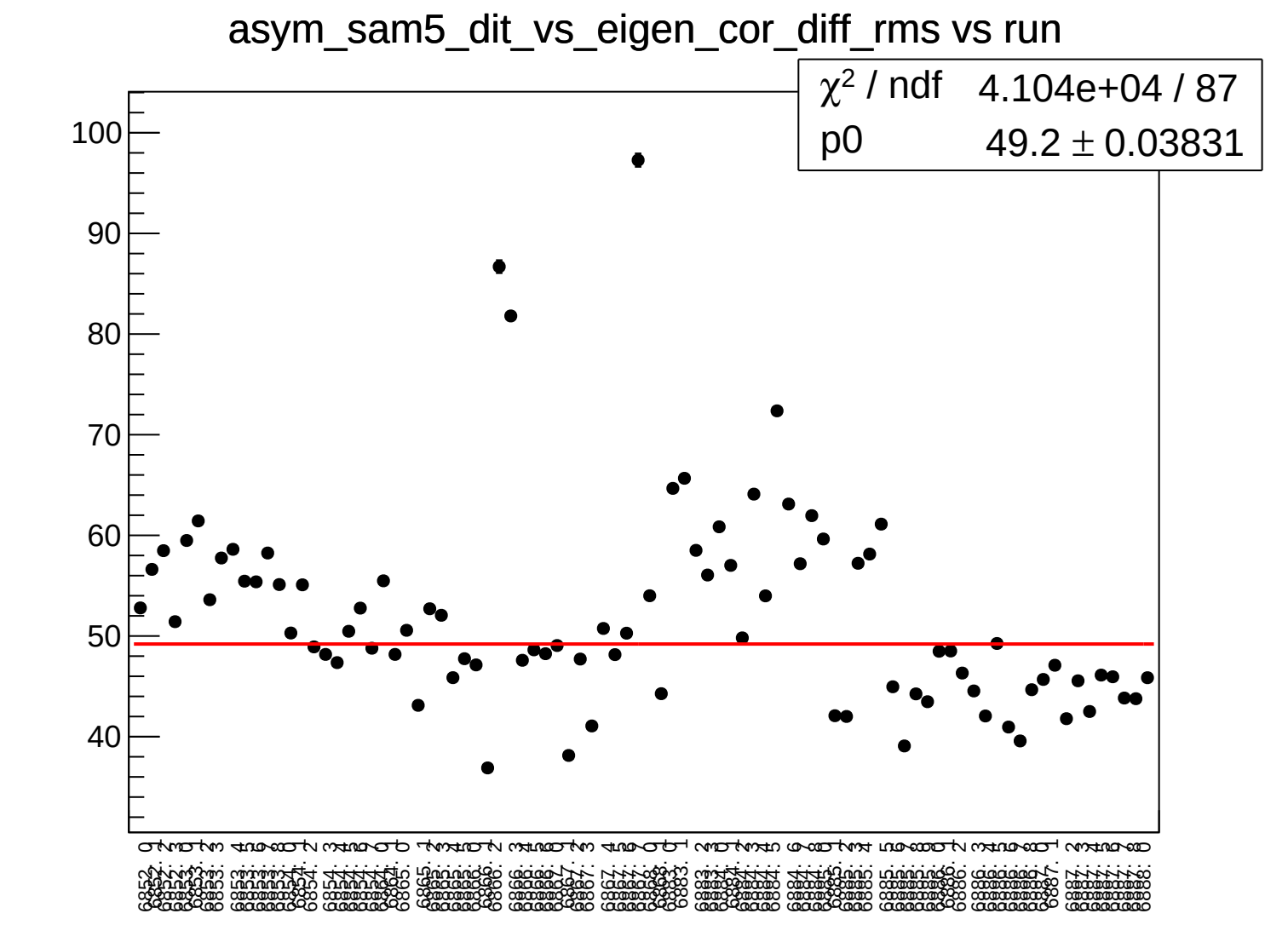

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 8.922e+05 / 87
p0 1.741e−11 ± 1.948e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

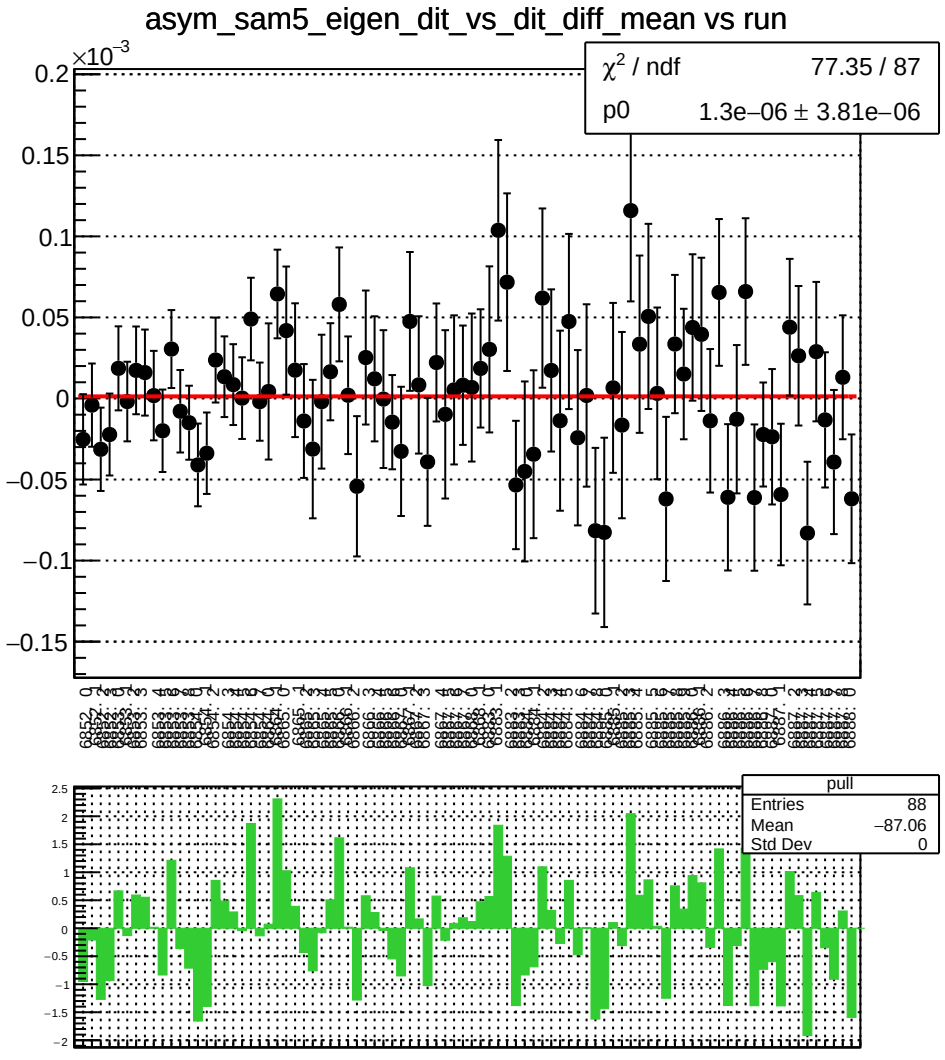

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 88.11 / 87
p0 0.04602 ± 0.05417
pull
Entries 88
Mean −26.95
Std Dev 0

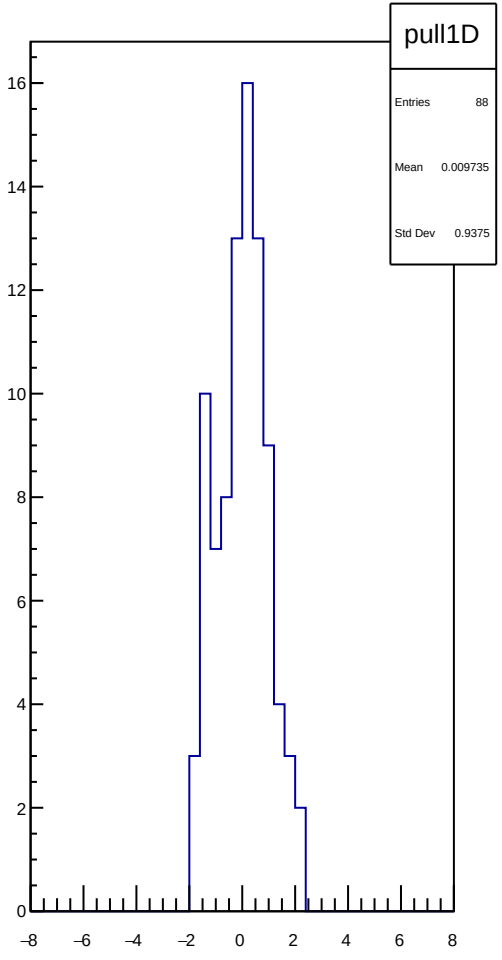

pull1D
Entries 88
Mean −0.03261
Std Dev 1

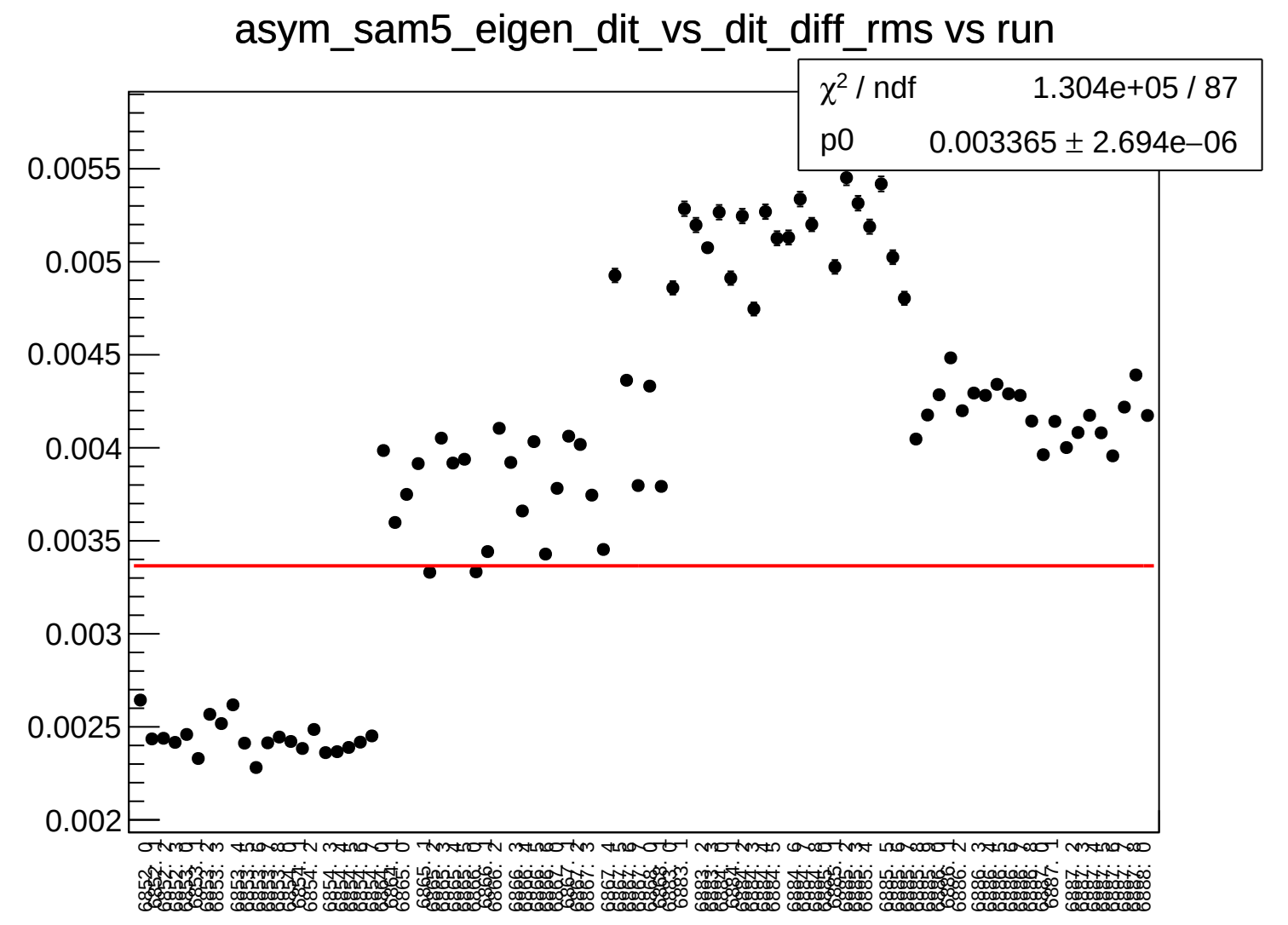

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 4.104e+04 / 87
p0 49.2 ± 0.03831
100
90
80
70
60
50
40

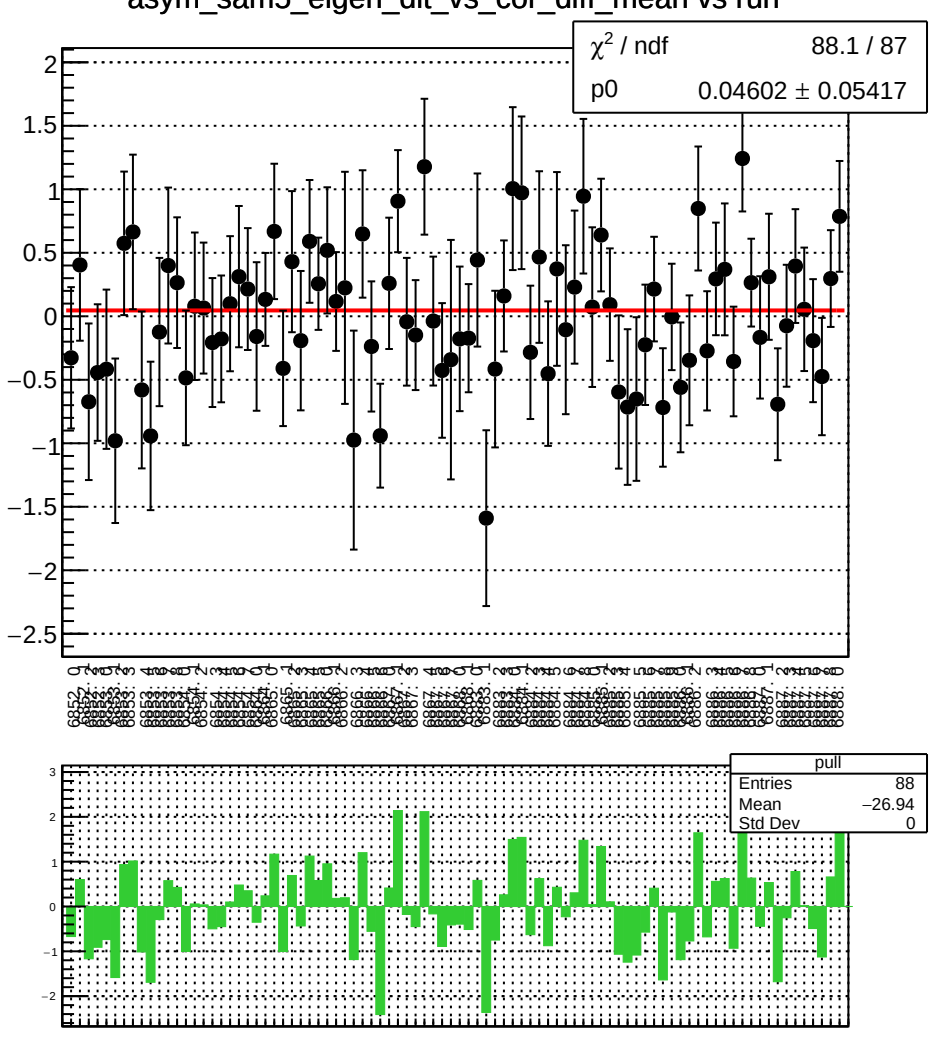

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.11 / 87
p0 0.04602 ± 0.05417
pull
Entries 88
Mean −26.95
Std Dev 0
pull1D
Entries 88
Mean −0.03261
Std Dev 1

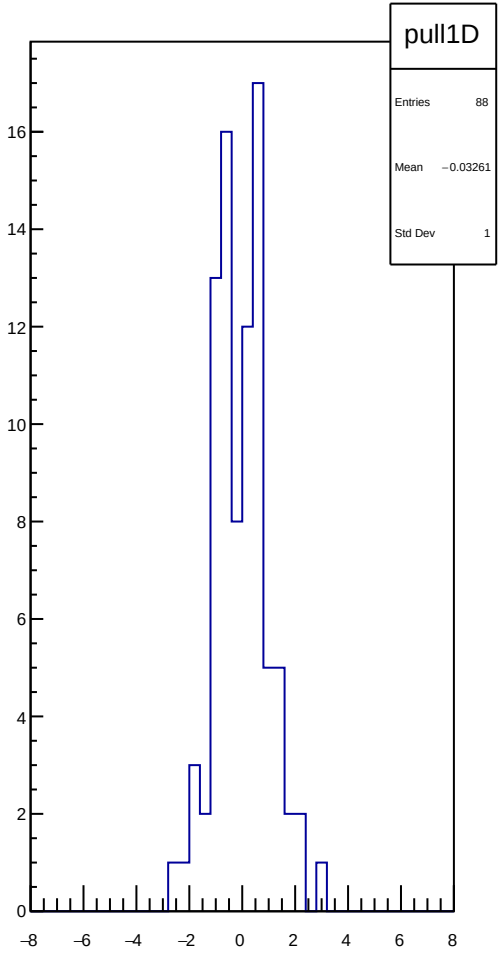

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.104e+04 / 87
p0 49.2 ± 0.03831
100
90
80
70
60
50
40

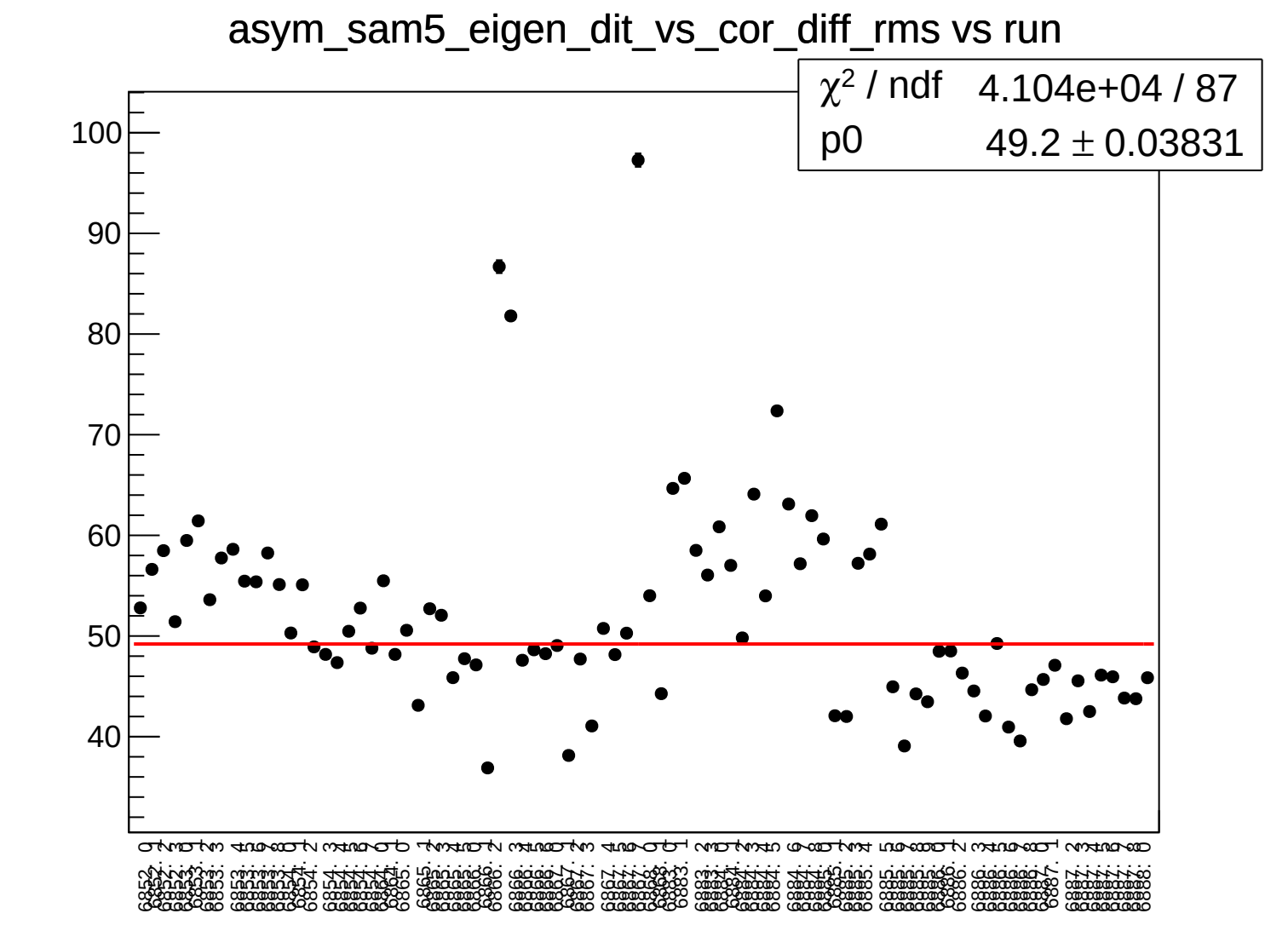

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.35 / 87
p0 1.3e−06 ± 3.81e−06
pull
Entries 88
Mean −87.06
Std Dev 0

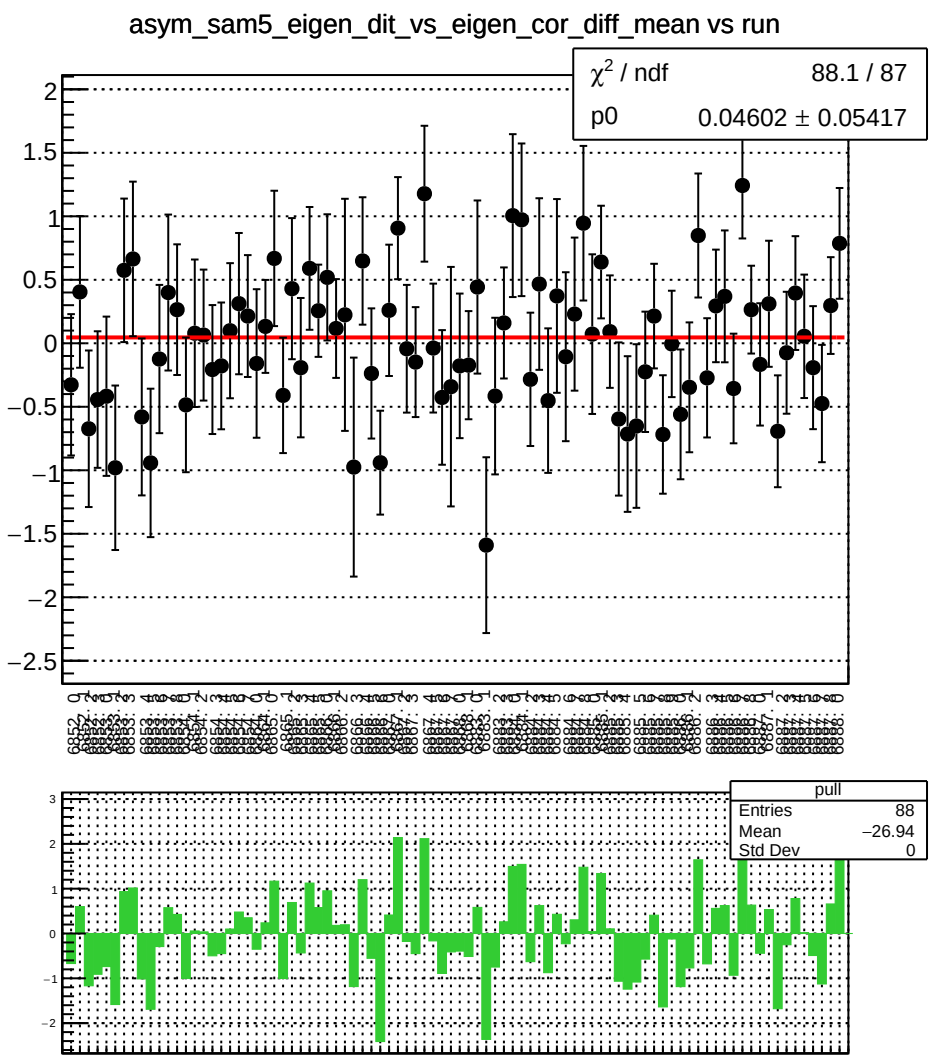

pull1D
Entries 88
Mean 0.009735
Std Dev 0.9375

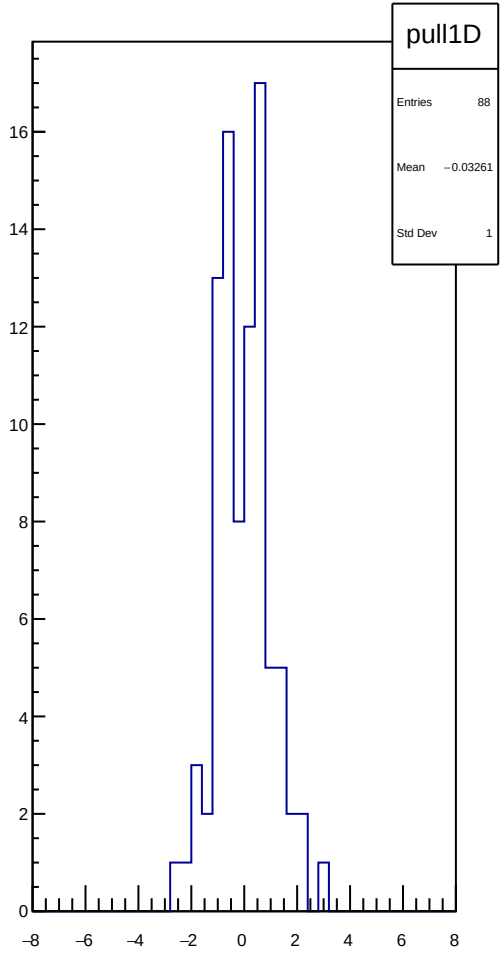

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.304e+05 / 87
p0 0.003365 ± 2.694e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

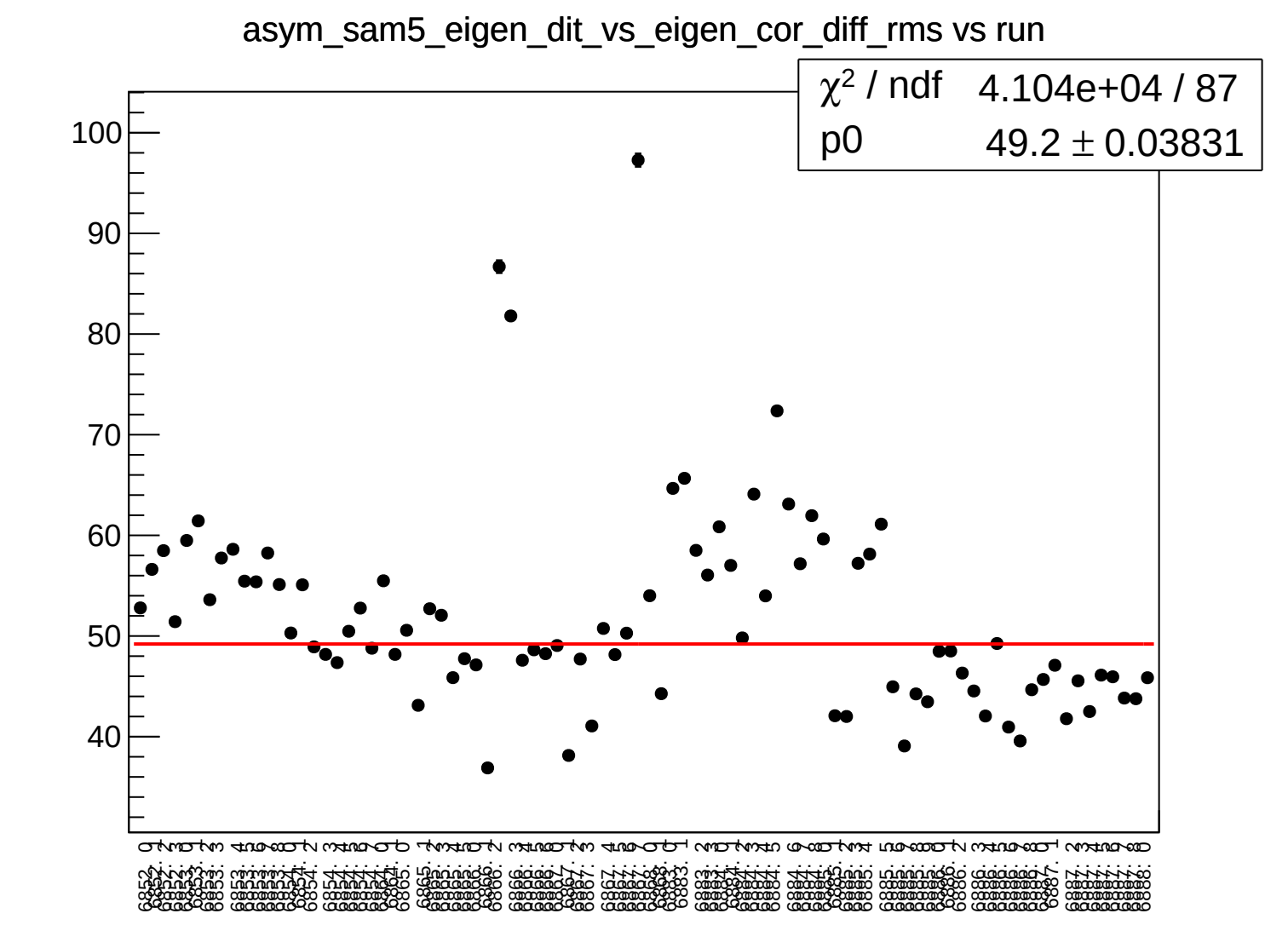

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.1 / 87
p0 0.04602 ± 0.05417
pull
Entries 88
Mean −26.94
Std Dev 0

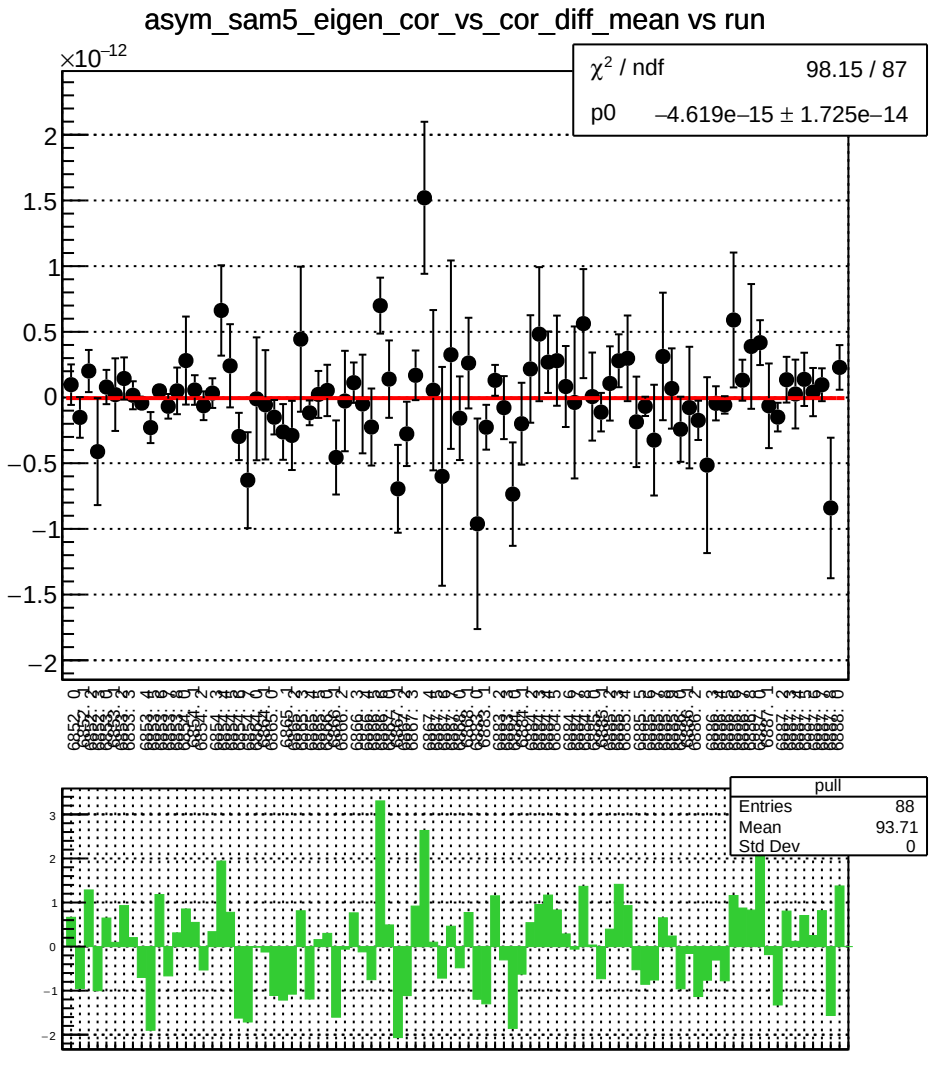

pull1D
Entries 88
Mean −0.03261
Std Dev 1

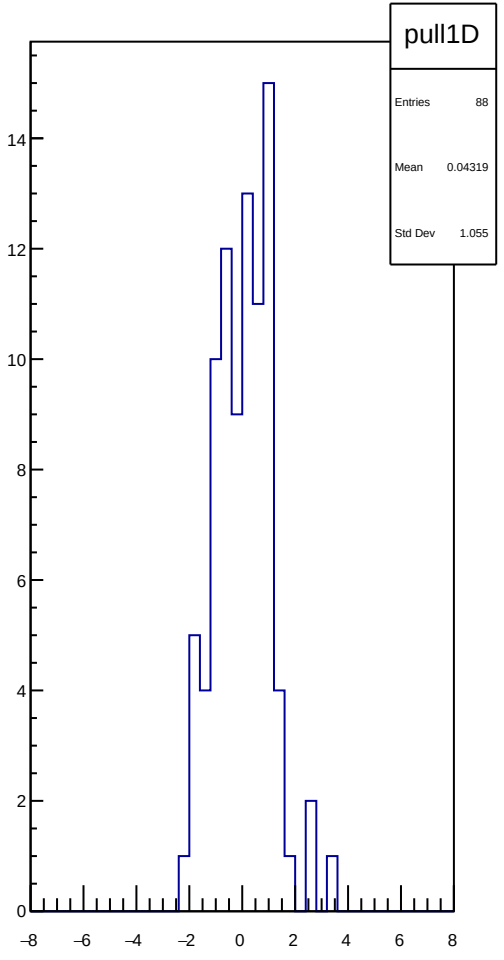

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.104e+04 / 87
p0 49.2 ± 0.03831
100
90
80
70
60
50
40

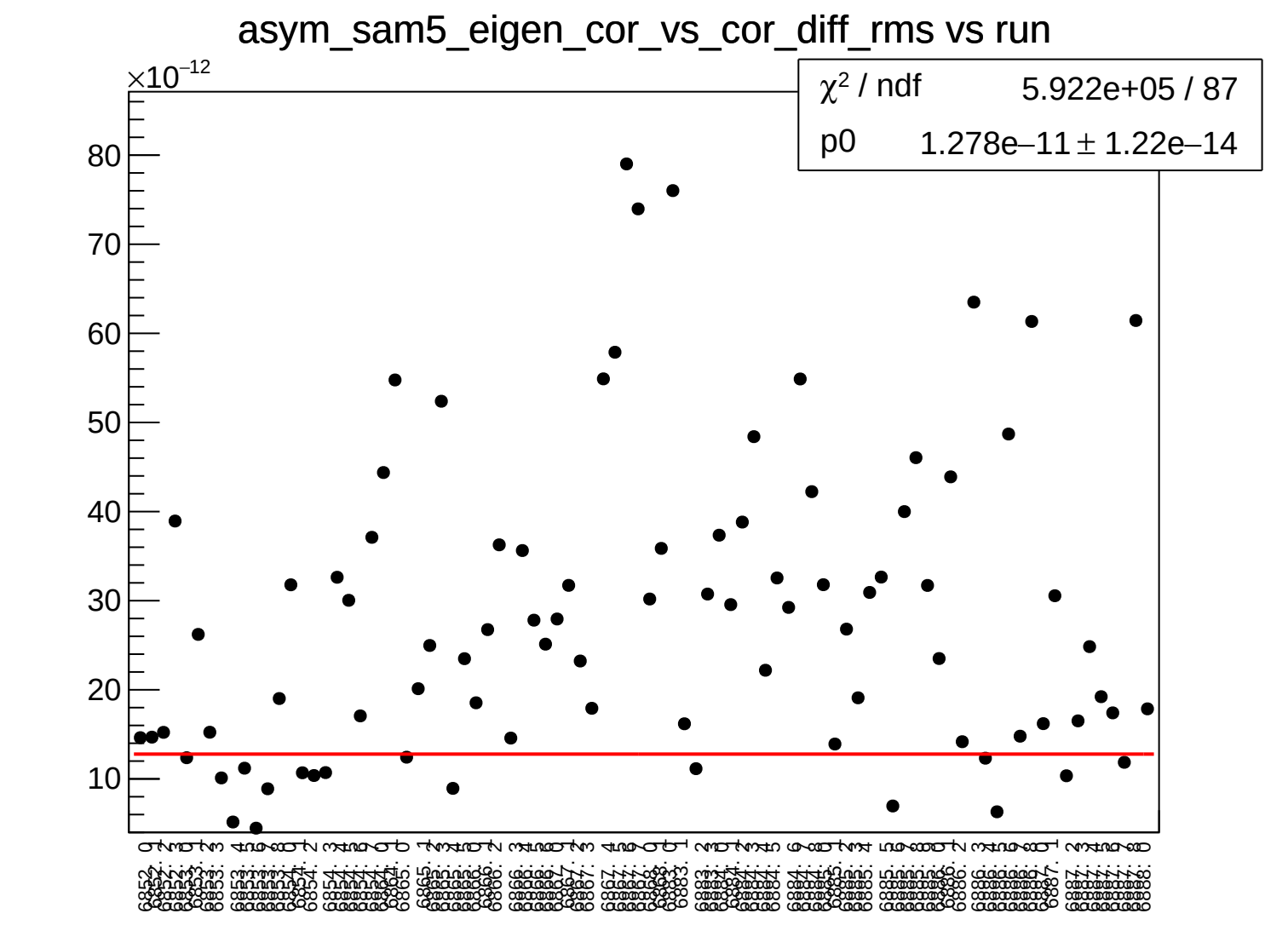

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.1 / 87
p0 0.04602 ± 0.05417
pull
Entries 88
Mean −26.94
Std Dev 0

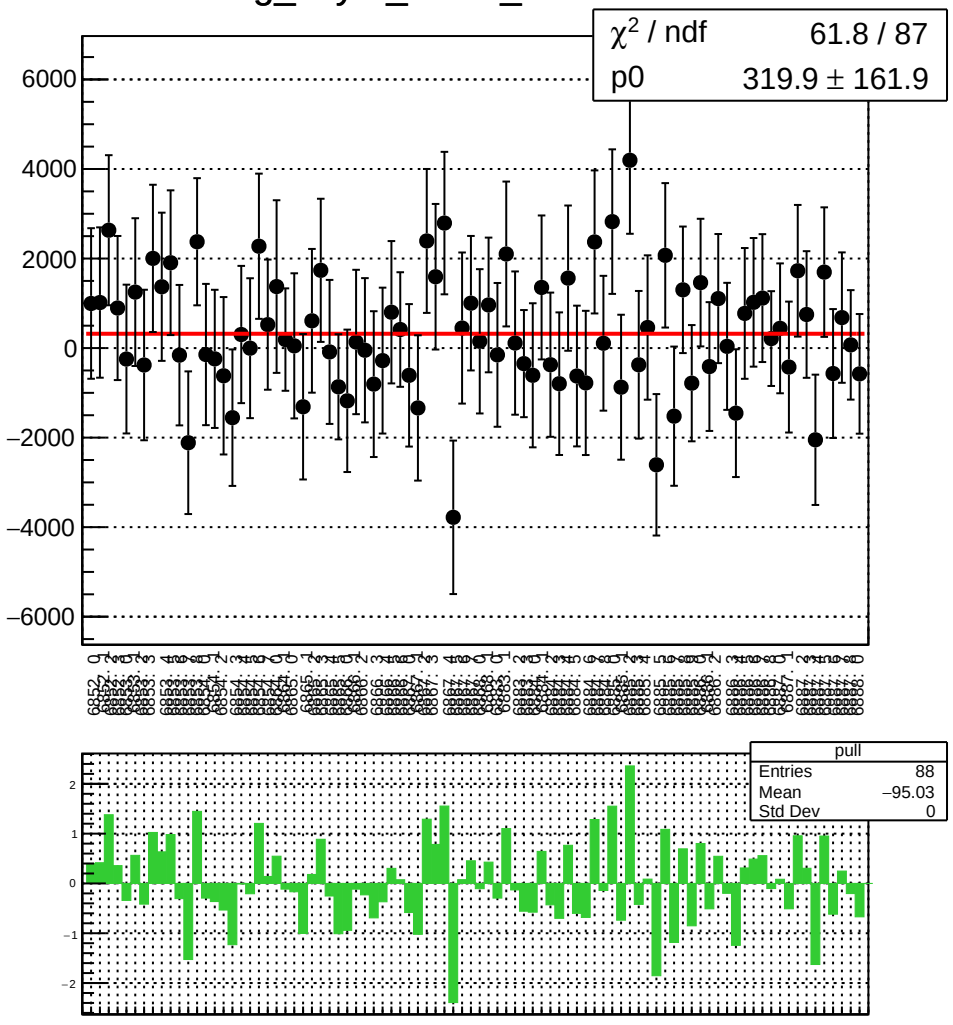

pull1D
Entries 88
Mean −0.03261
Std Dev 1

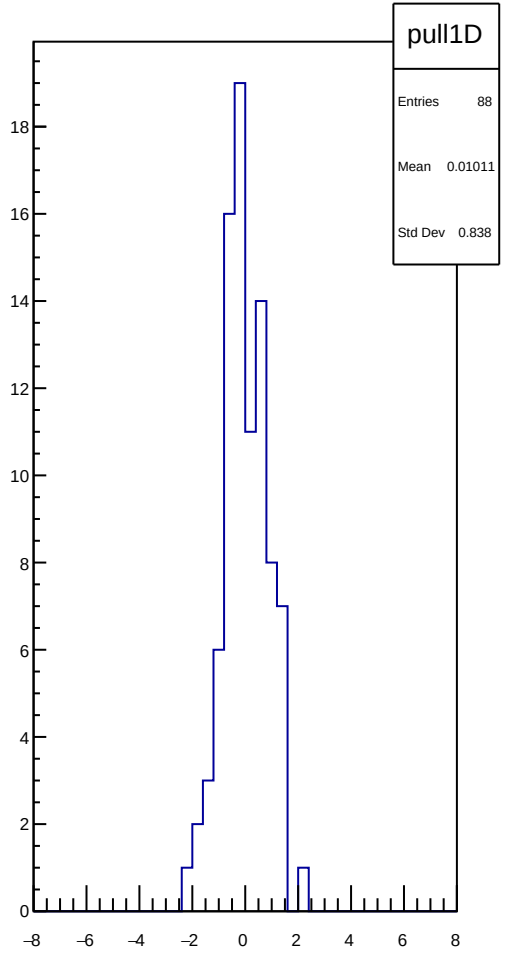

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.104e+04 / 87
p0 49.2 ± 0.03831
100
90
80
70
60
50
40

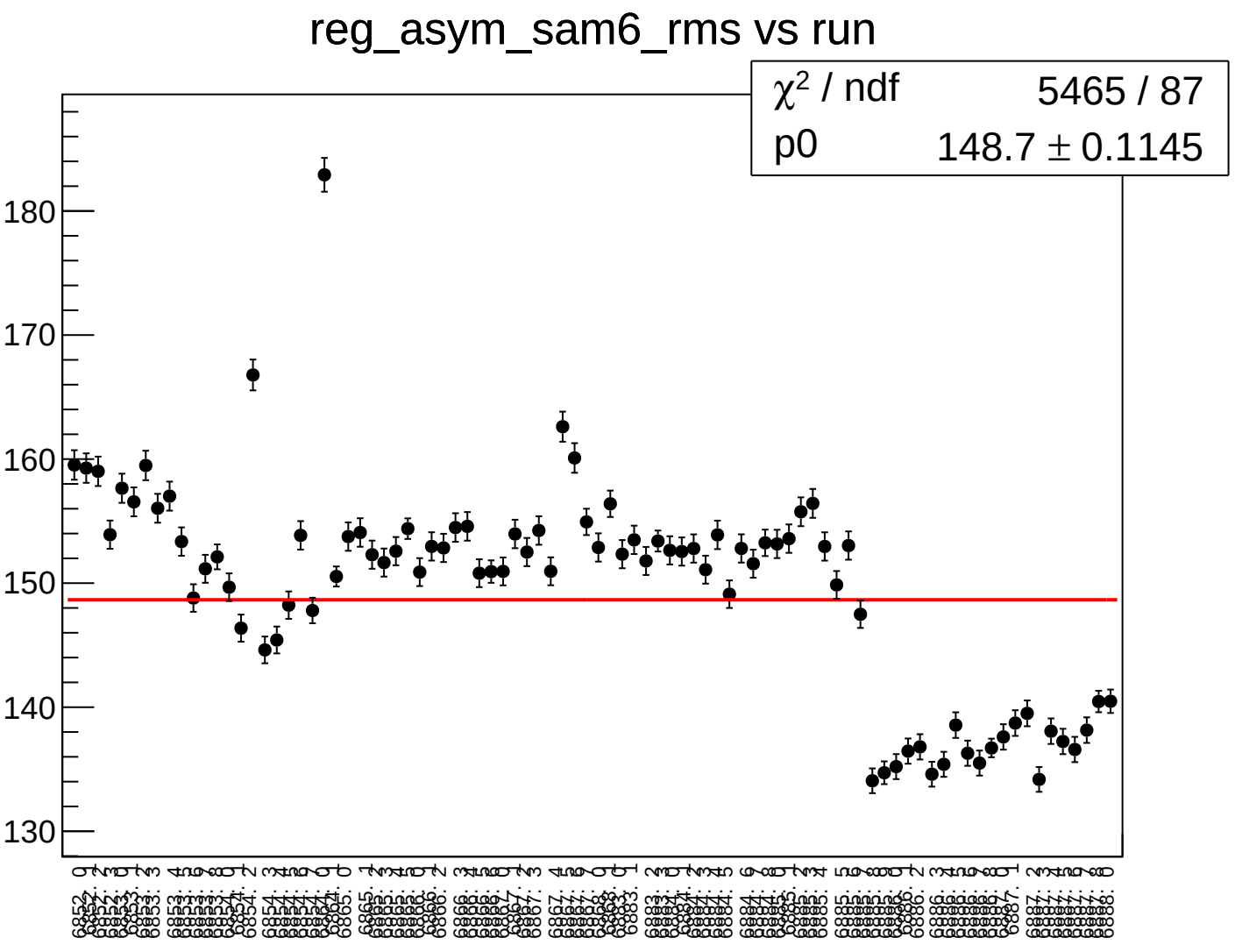

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.15 / 87
p0 −4.619e−15 ± 1.725e−14
pull
Entries 88
Mean 93.71
Std Dev 0

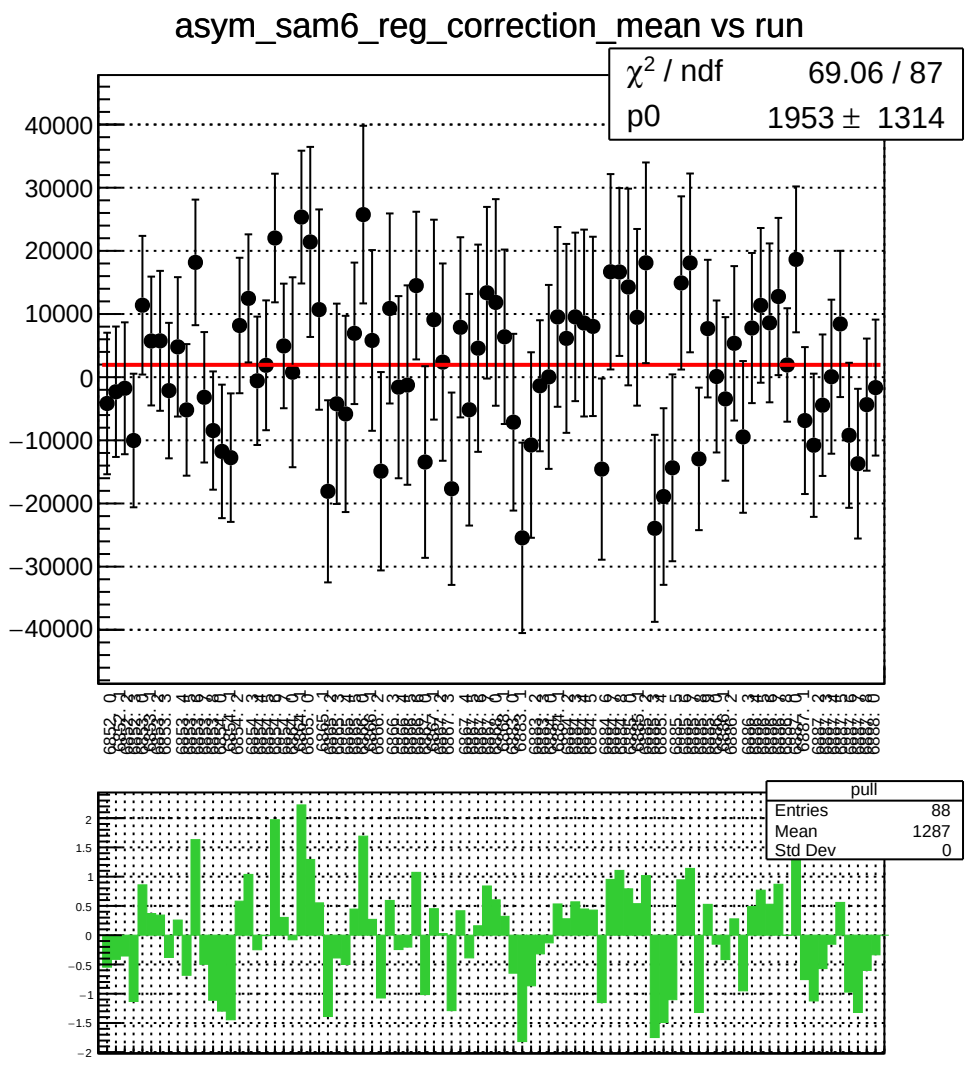

pull1D
Entries 88
Mean 0.04319
Std Dev 1.055

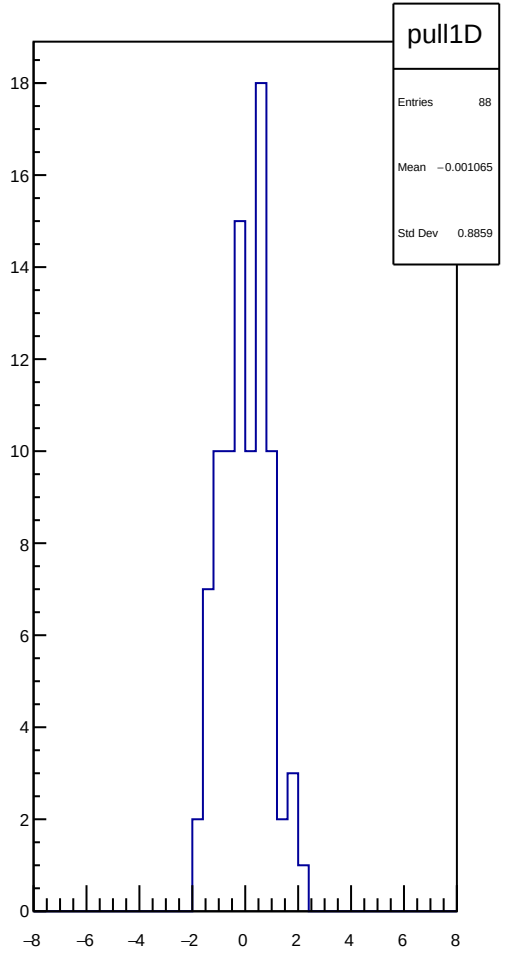

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.922e+05 / 87
p0 1.278e−11 ± 1.22e−14
80
70
60
50
40
30
20
10

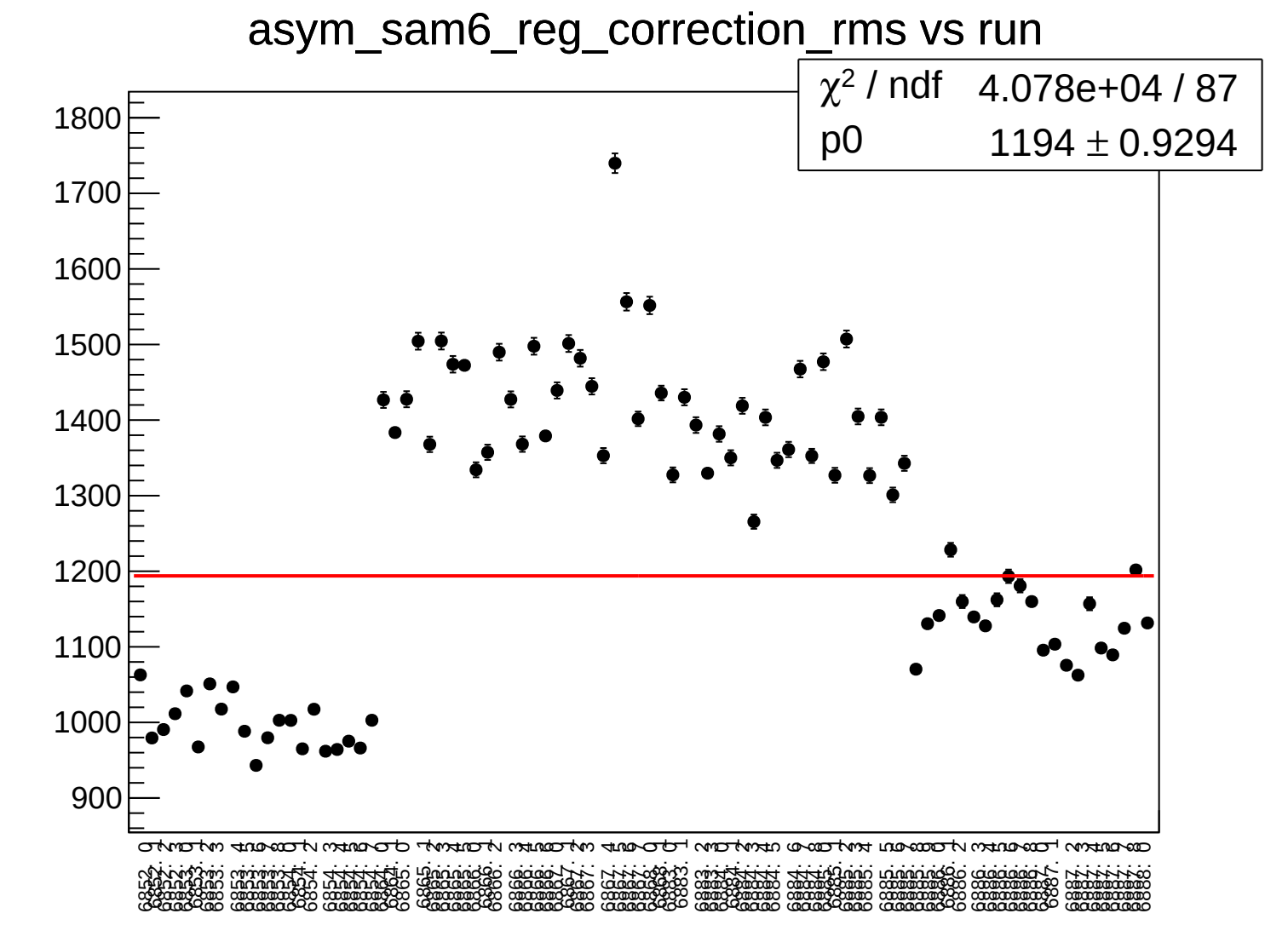

reg_asym_sam6_mean vs run
χ² / ndf 61.8 / 87
p0 319.9 ± 161.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −95.03
Std Dev 0
2
1
0
−1
−2

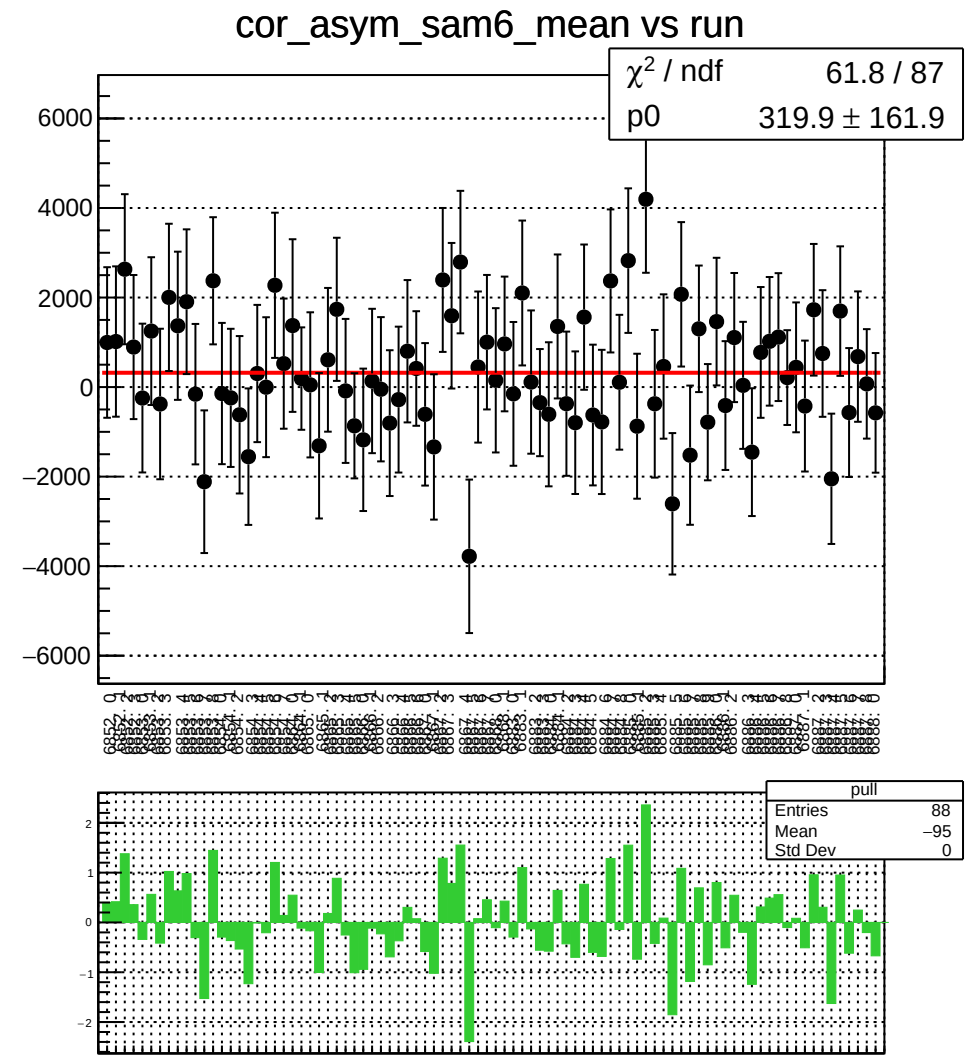

pull1D
Entries 88
Mean 0.01011
Std Dev 0.838
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

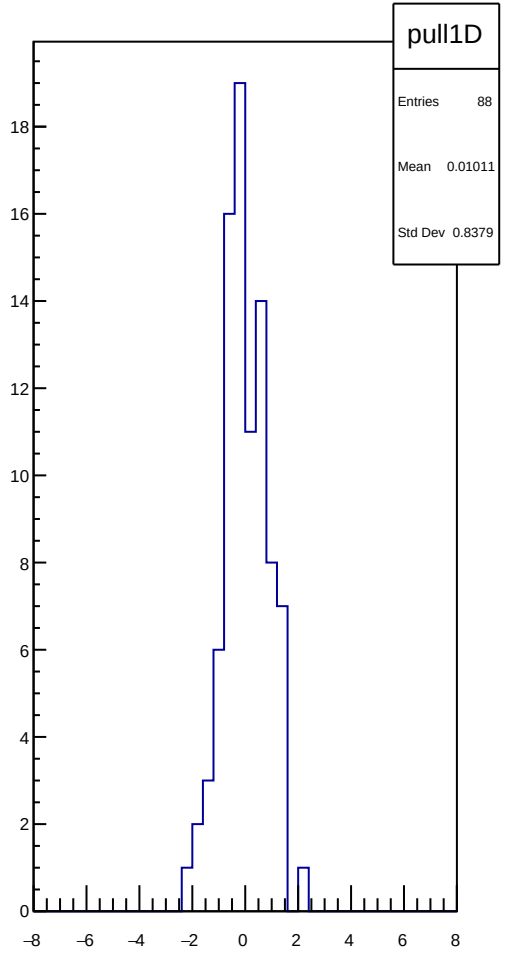

reg_asym_sam6_rms vs run
χ² / ndf 5465 / 87
p0 148.7 ± 0.1145
180
170
160
150
140
130

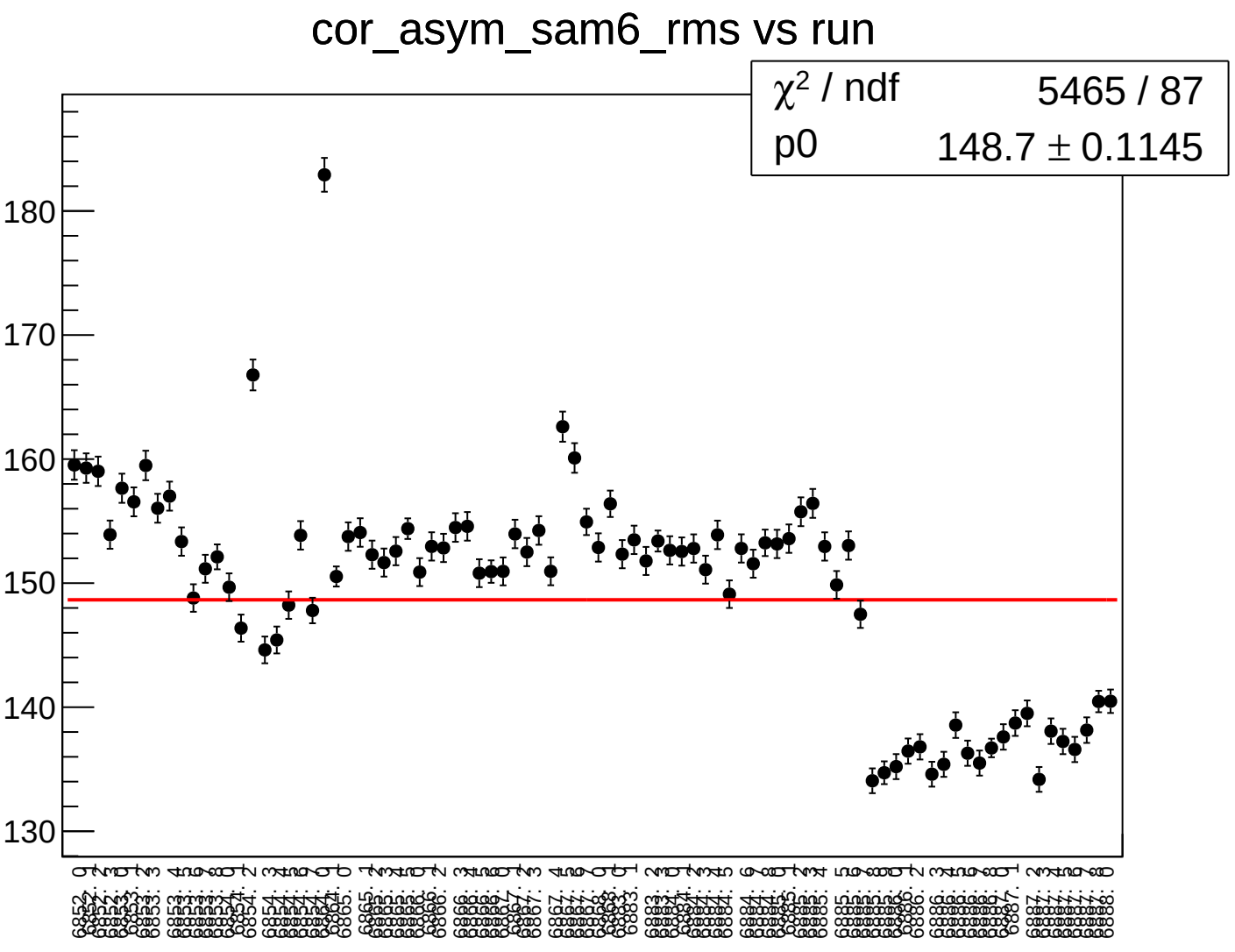

asym_sam6_reg_correction_mean vs run
χ² / ndf 69.06 / 87
p0 1953 ± 1314
pull
Entries 88
Mean 1287
Std Dev 0

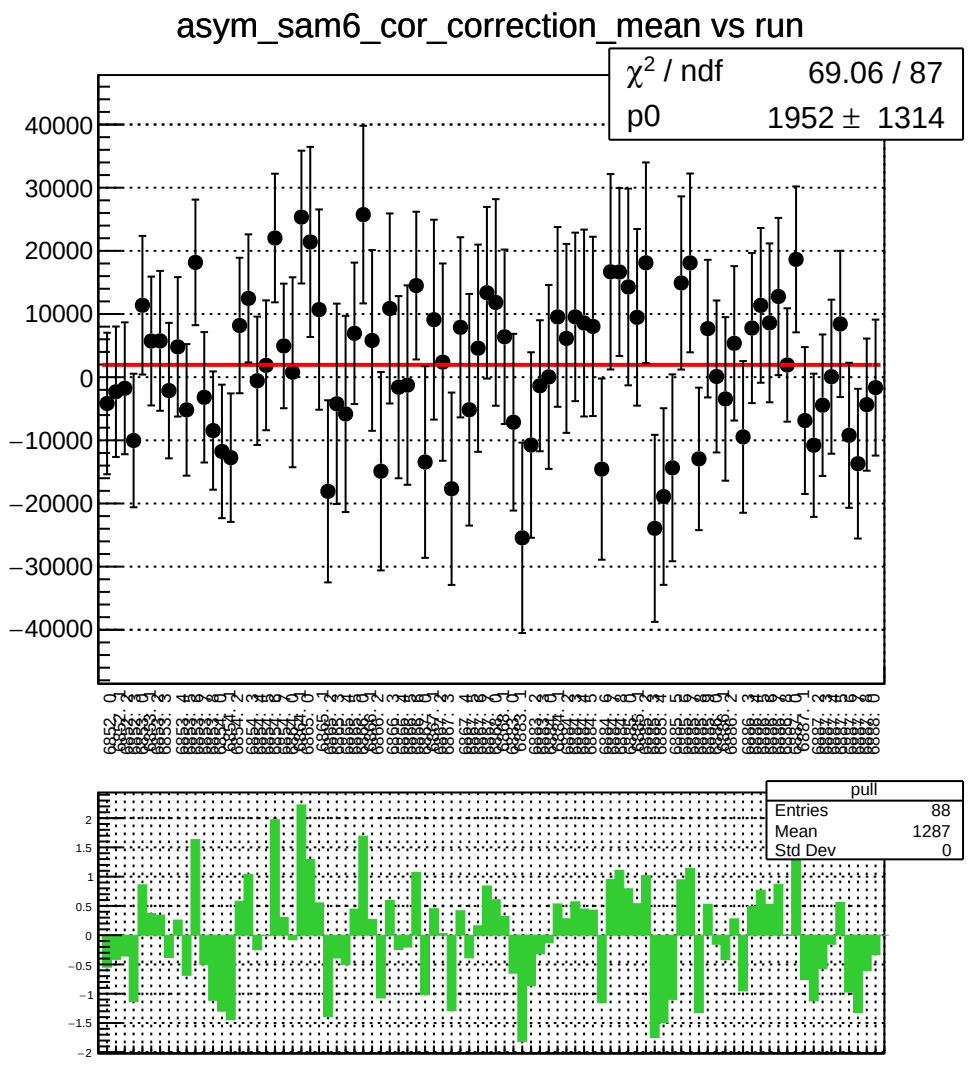

pull1D
Entries 88
Mean −0.001065
Std Dev 0.8859

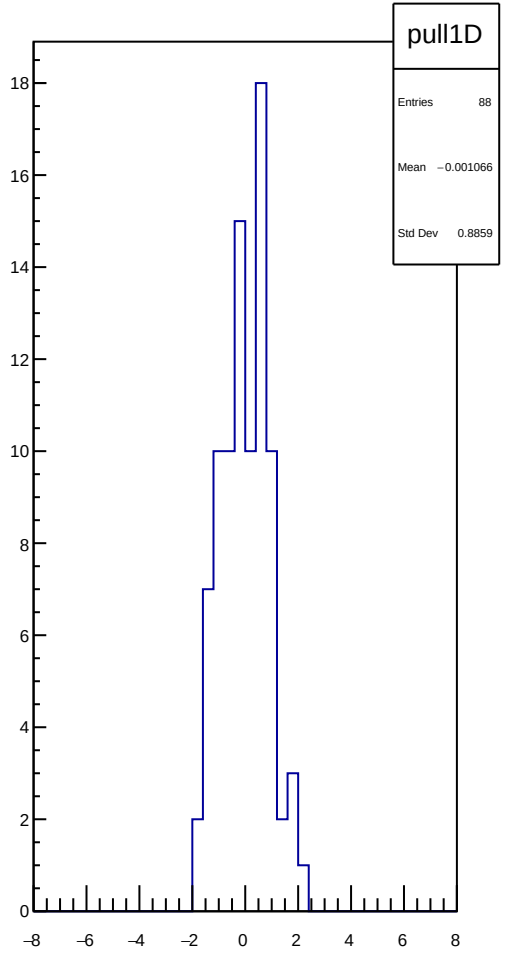

asym_sam6_reg_correction_rms vs run
χ² / ndf 4.078e+04 / 87
p0 1194 ± 0.9294
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

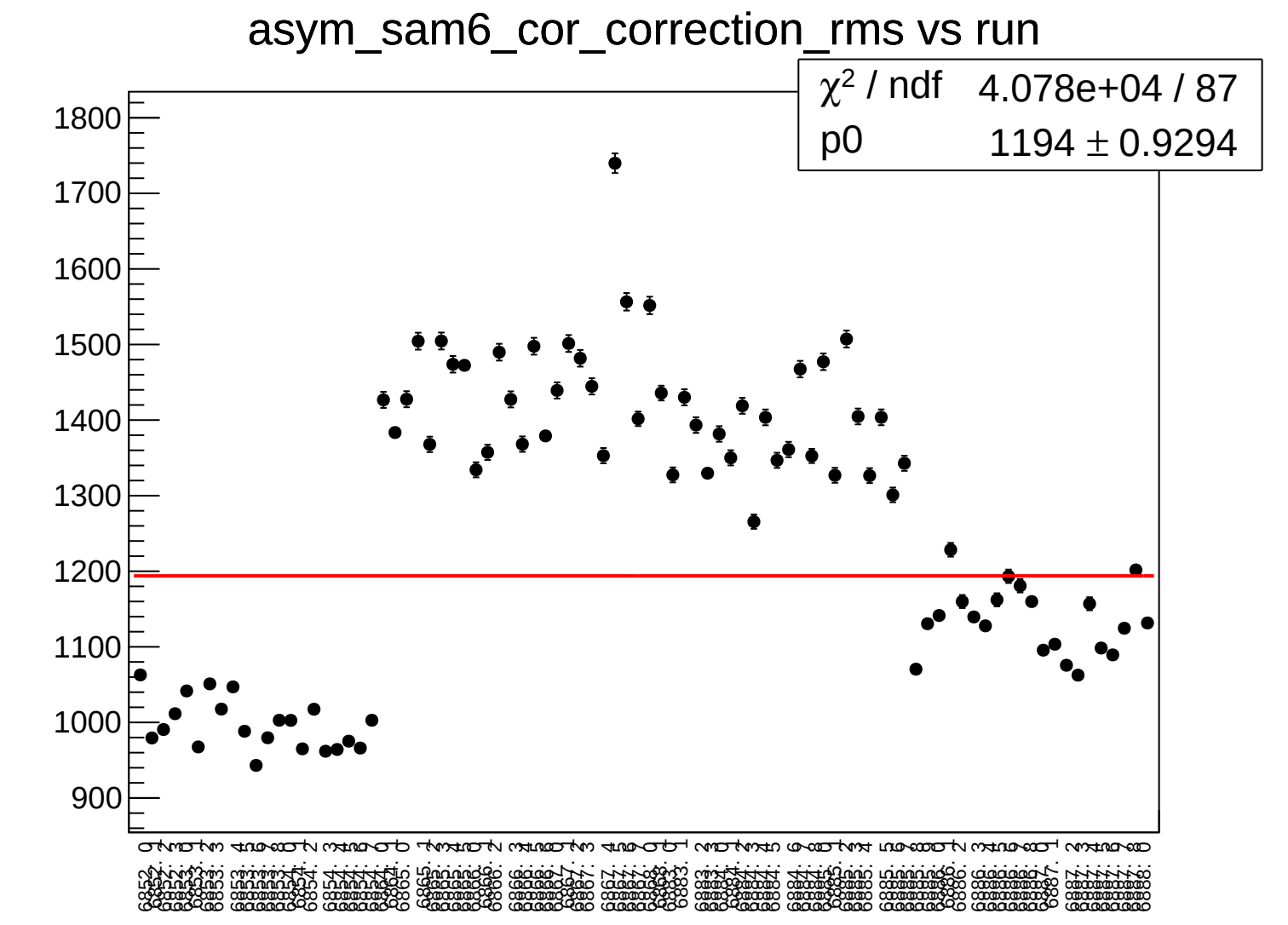

cor_asym_sam6_mean vs run
χ² / ndf 61.8 / 87
p0 319.9 ± 161.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −95
Std Dev 0
2
1
0
−1
−2

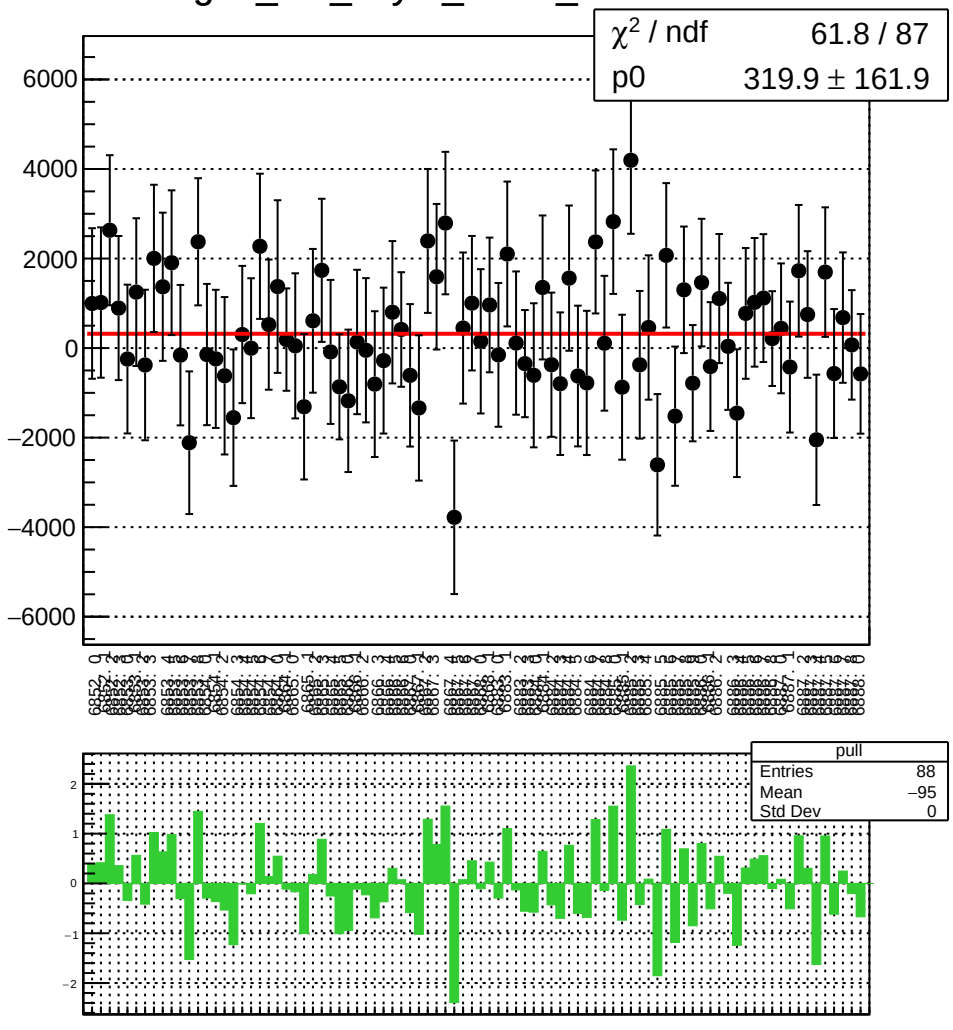

pull1D
Entries 88
Mean 0.01011
Std Dev 0.8379
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

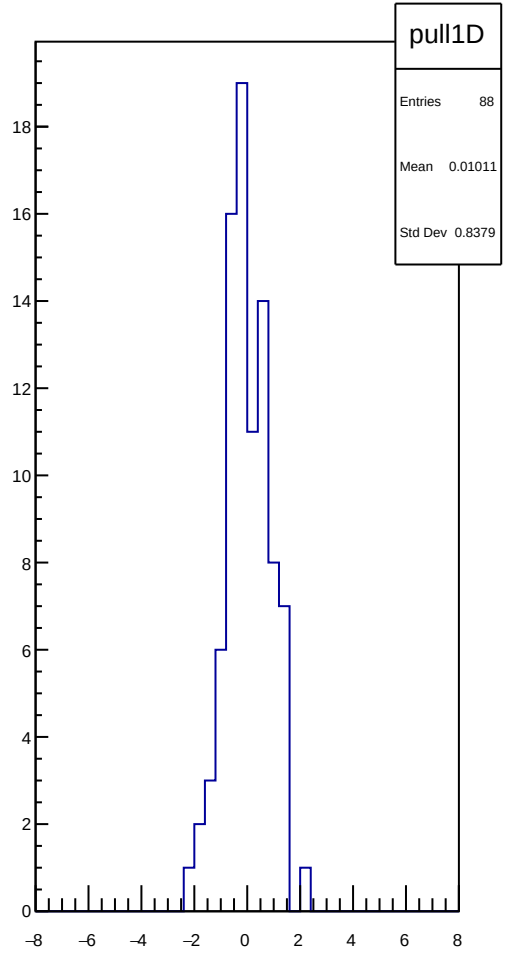

cor_asym_sam6_rms vs run
χ^2 / ndf 5465 / 87
p0 148.7 ± 0.1145
180
170
160
150
140
130

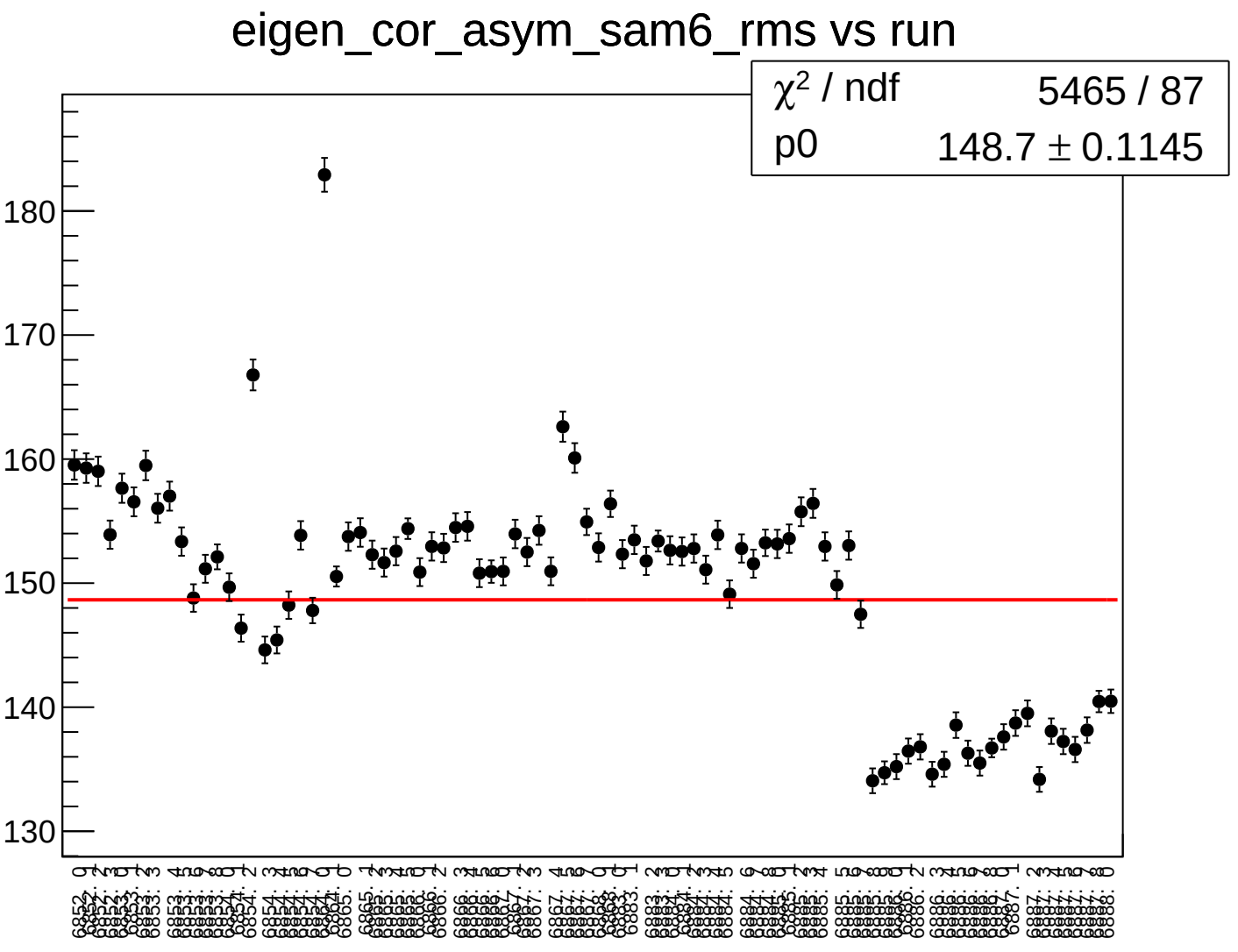

asym_sam6_cor_correction_mean vs run
χ² / ndf 69.06 / 87
p0 1952 ± 1314
pull
Entries 88
Mean 1287
Std Dev 0

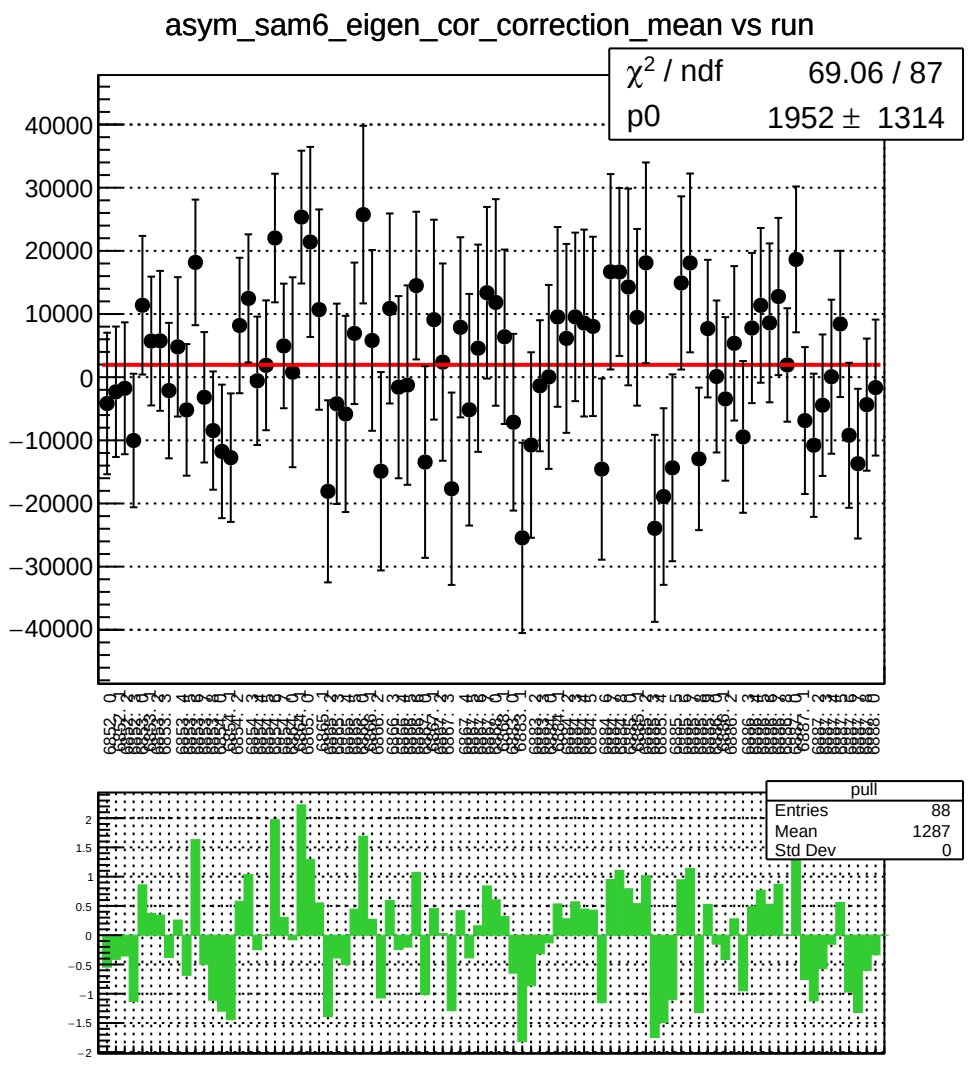

pull1D
Entries 88
Mean −0.001066
Std Dev 0.8859

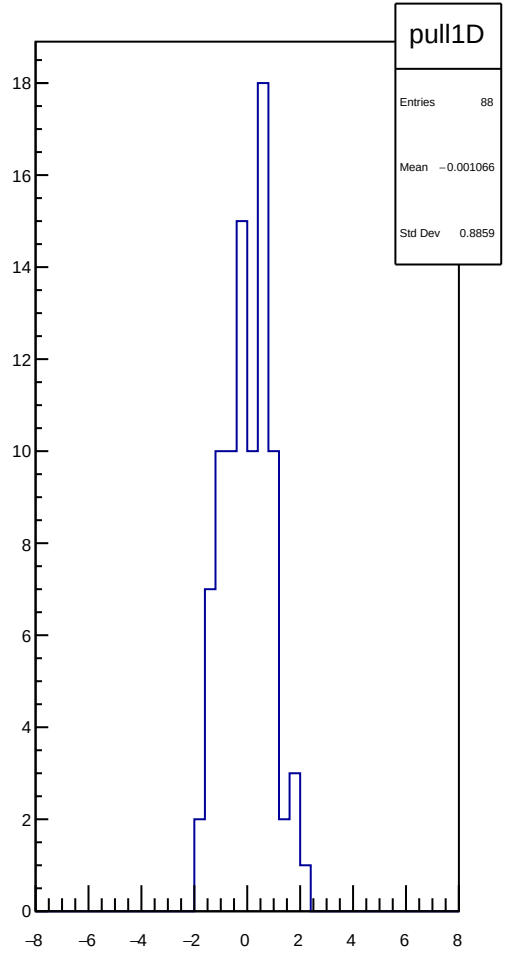

asym_sam6_cor_correction_rms vs run
χ² / ndf 4.078e+04 / 87
p0 1194 ± 0.9294
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

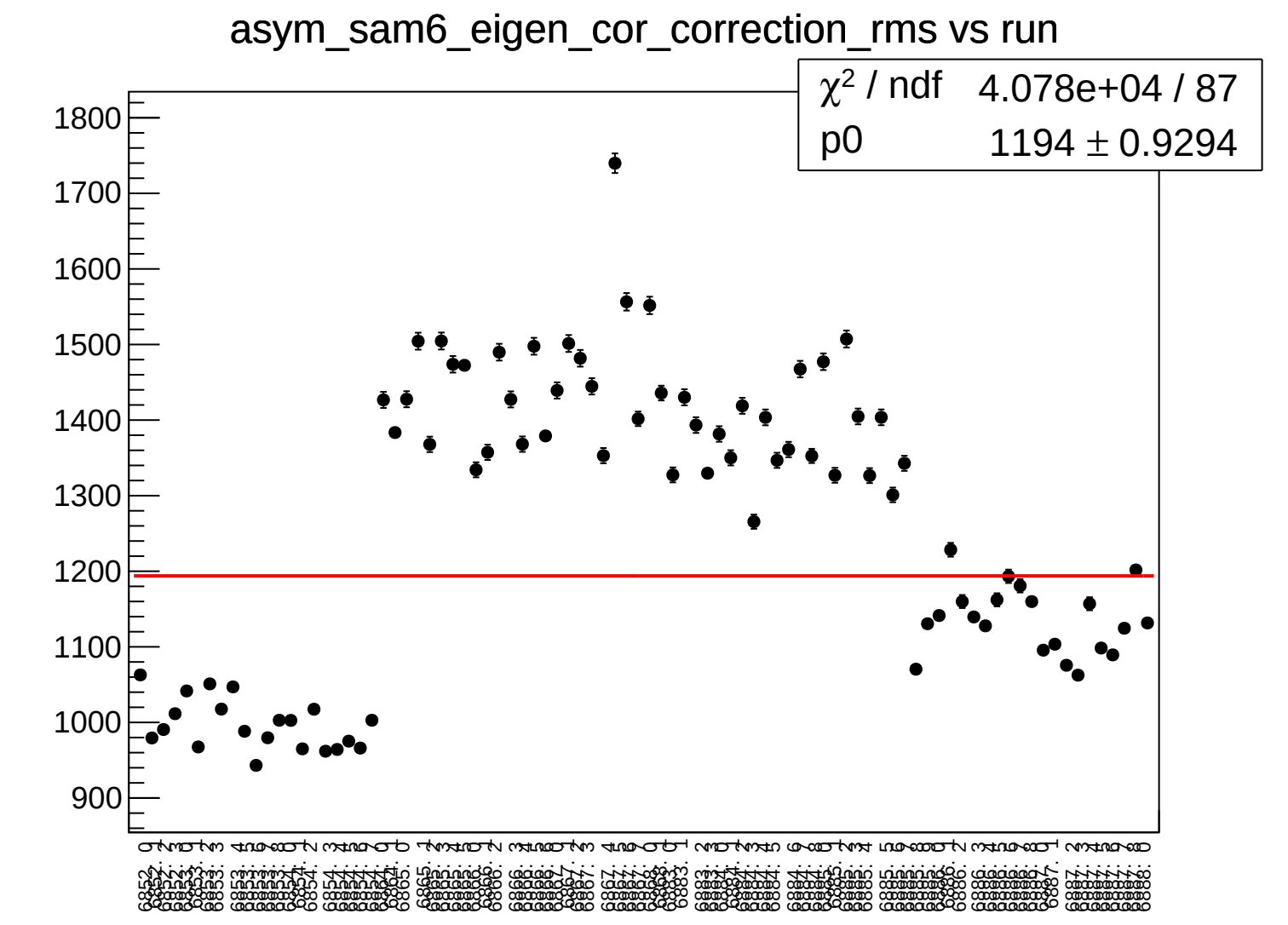

eigen_cor_asym_sam6_mean vs run
χ² / ndf 61.8 / 87
p0 319.9 ± 161.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −95
Std Dev 0
2
1
0
−1
−2

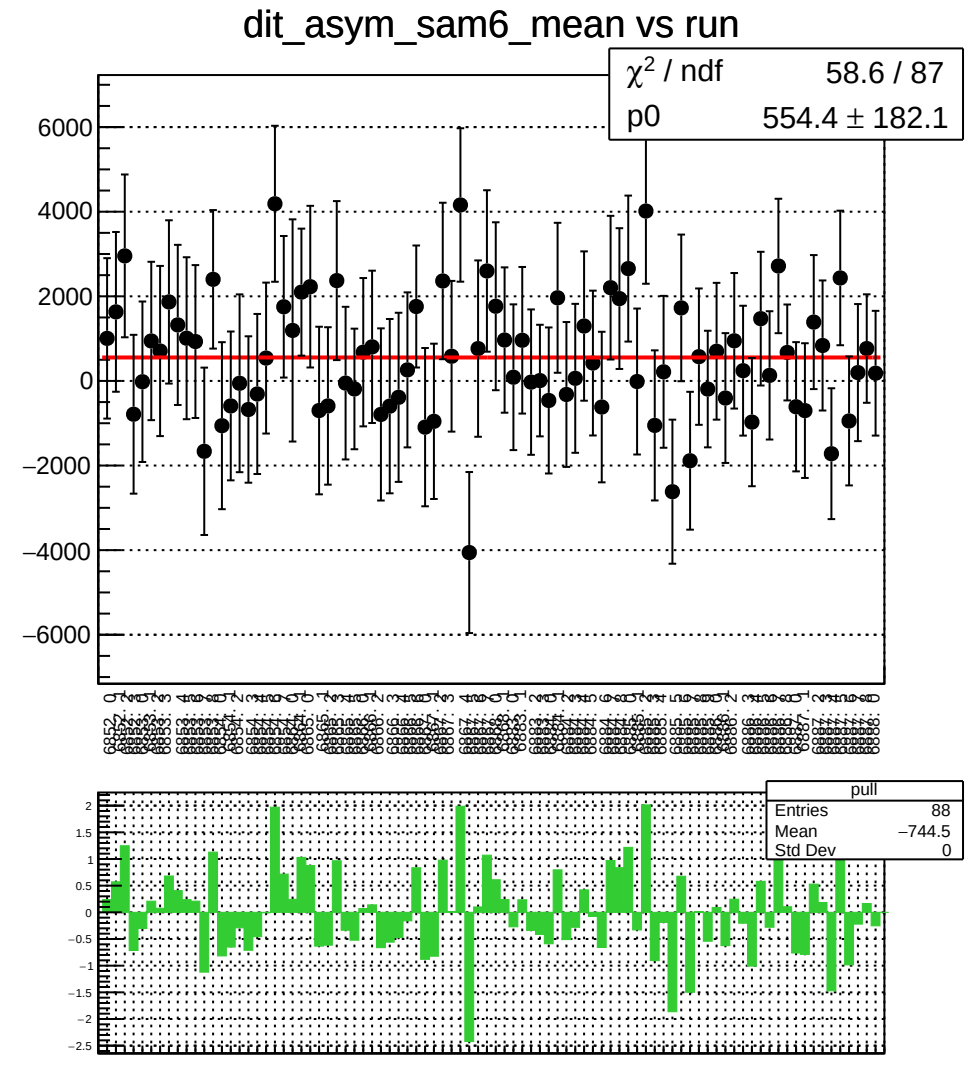

pull1D
Entries 88
Mean 0.01011
Std Dev 0.8379
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

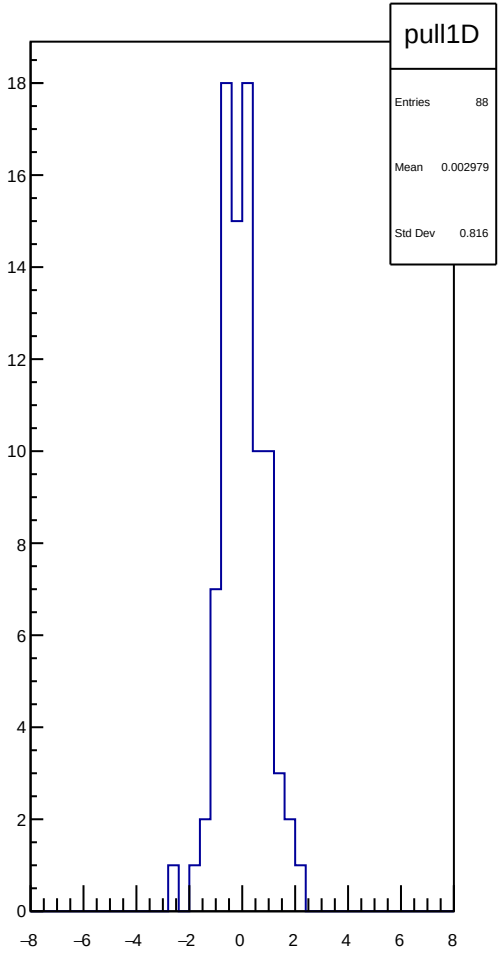

eigen_cor_asym_sam6_rms vs run
χ² / ndf 5465 / 87
p0 148.7 ± 0.1145
180
170
160
150
140
130

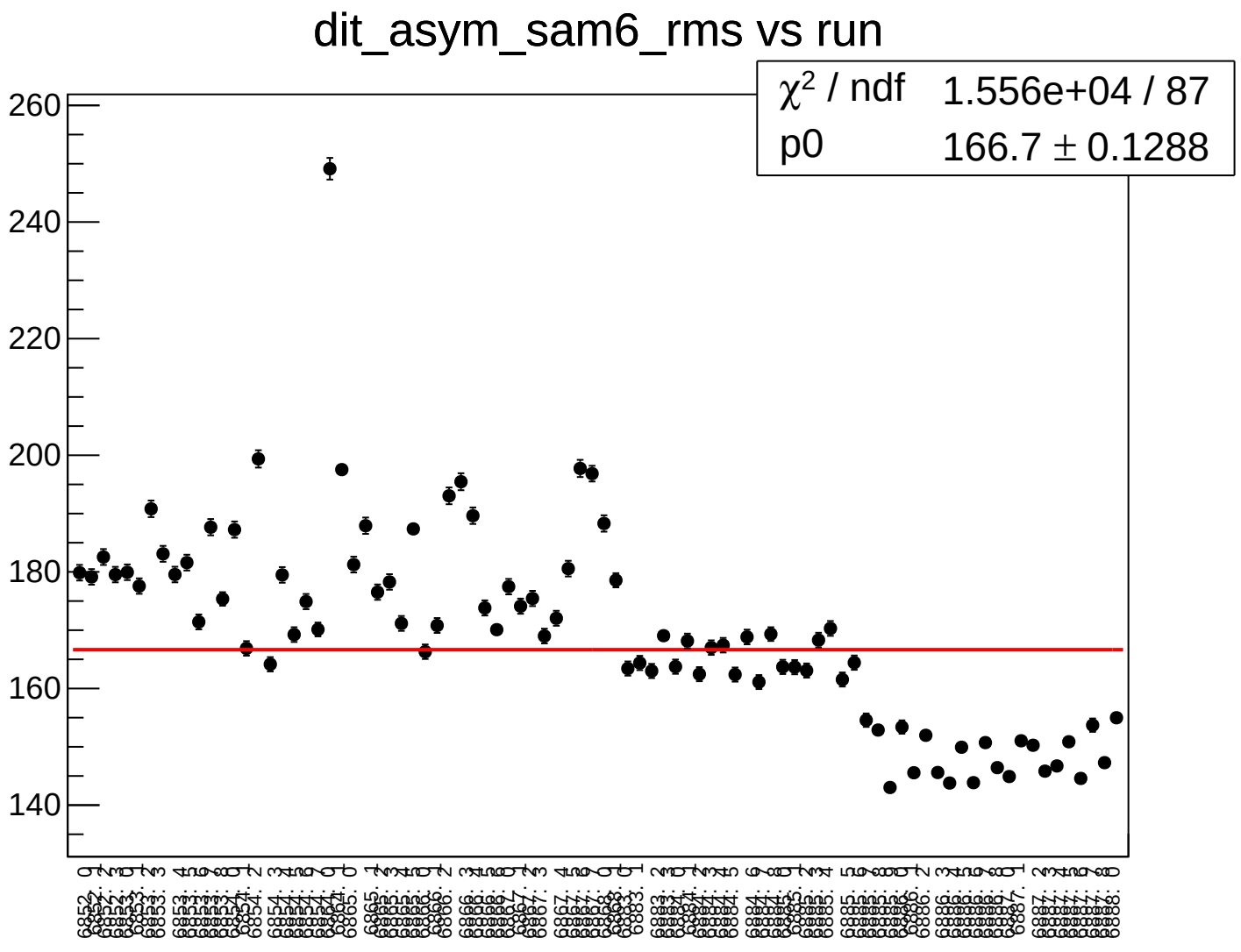

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 69.06 / 87
p0 1952 ± 1314
pull
Entries 88
Mean 1287
Std Dev 0

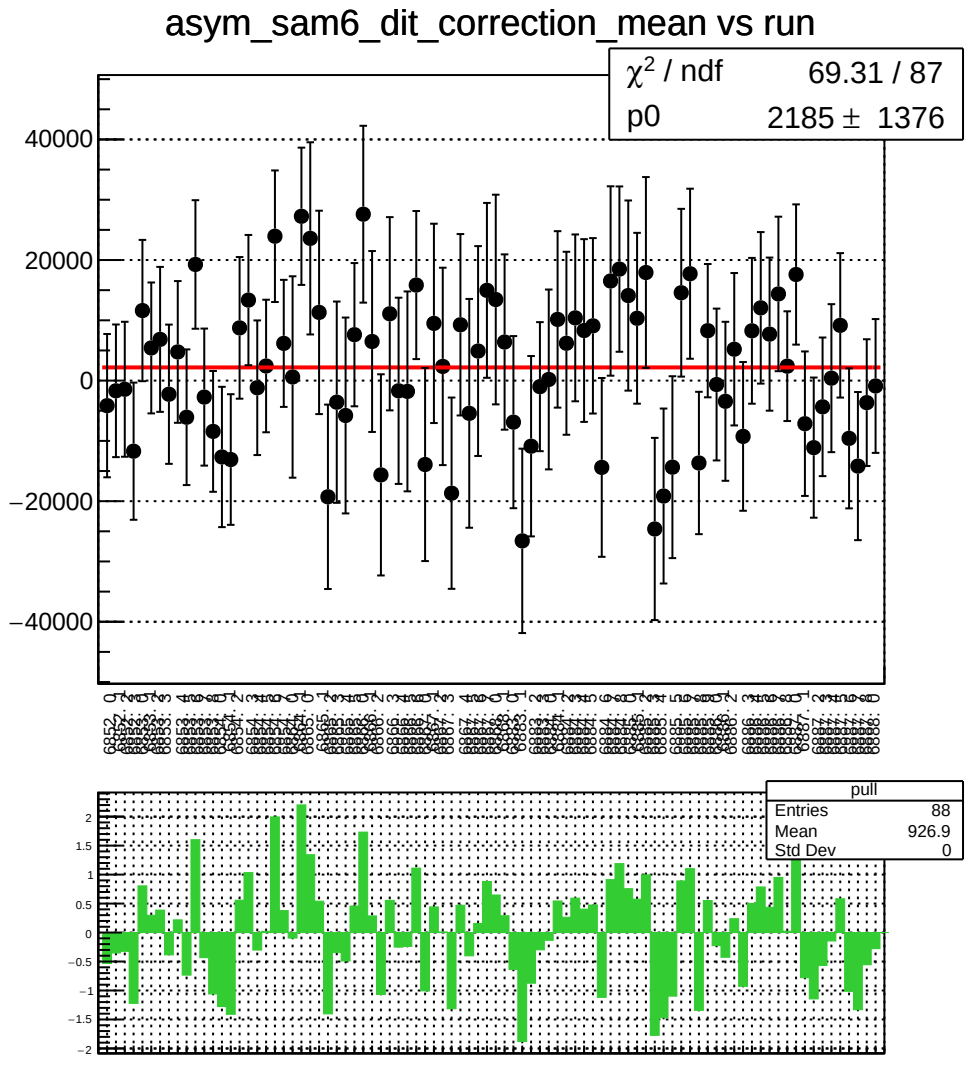

pull1D
Entries 88
Mean −0.001066
Std Dev 0.8859

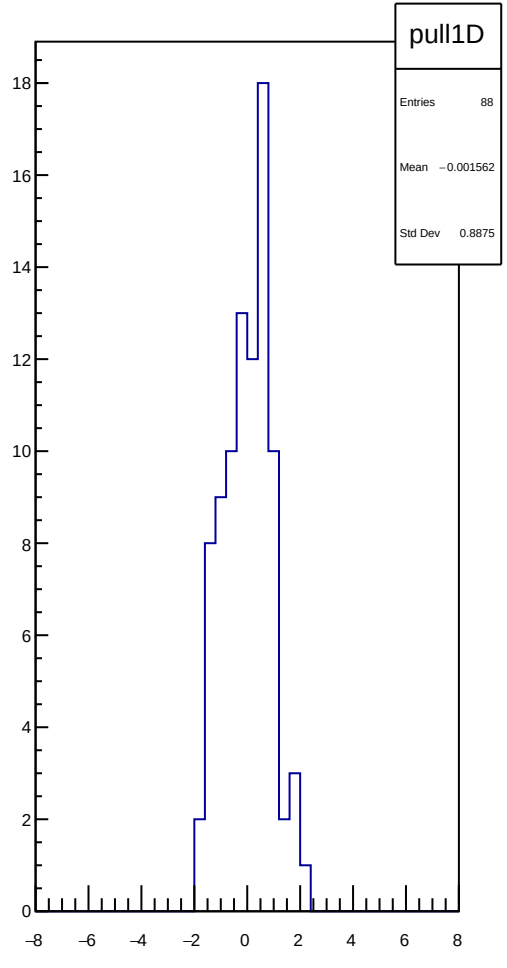

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 4.078e+04 / 87
p0 1194 ± 0.9294
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

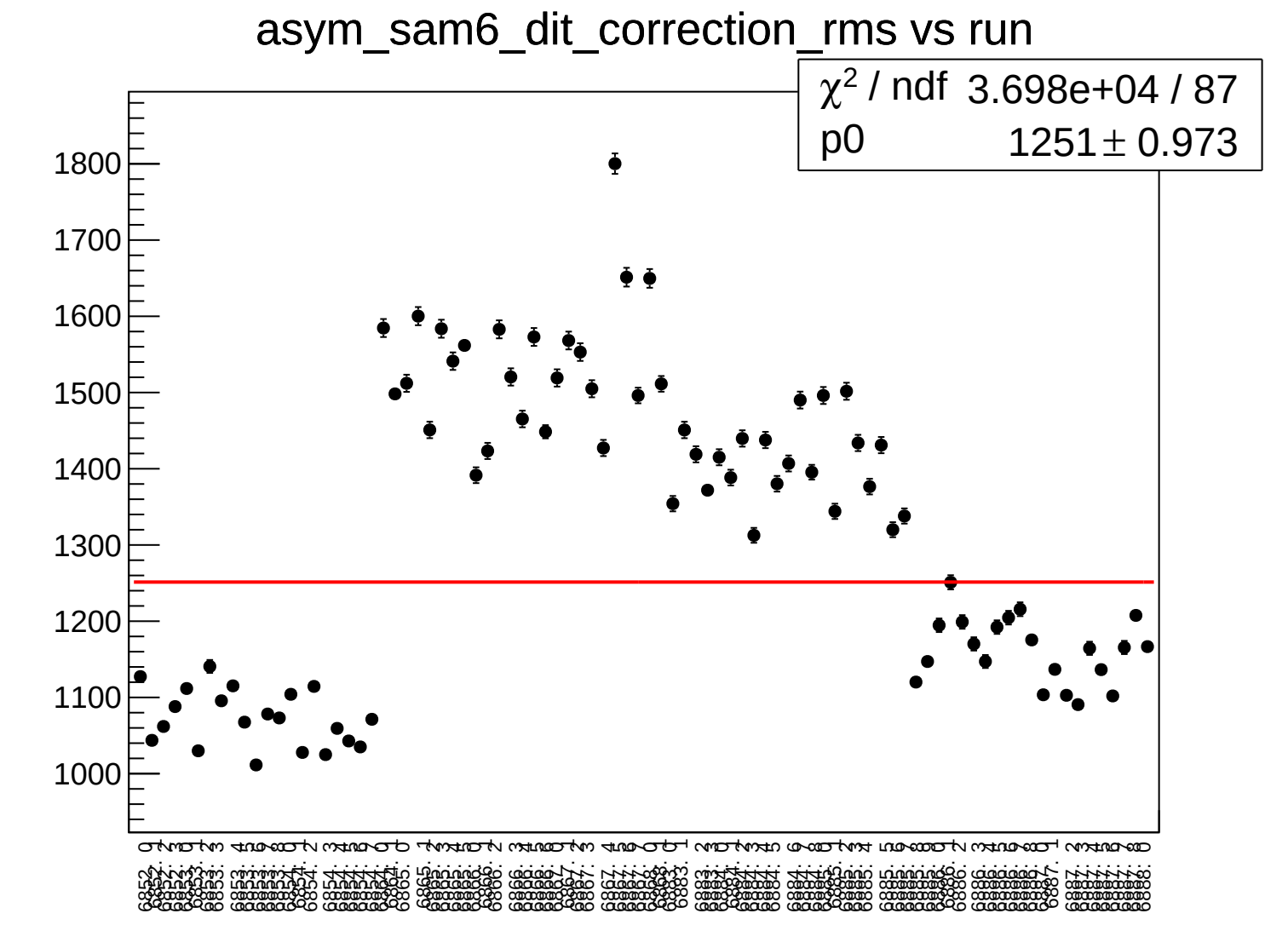

dit_asym_sam6_mean vs run
χ² / ndf 58.6 / 87
p0 554.4 ± 182.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −744.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

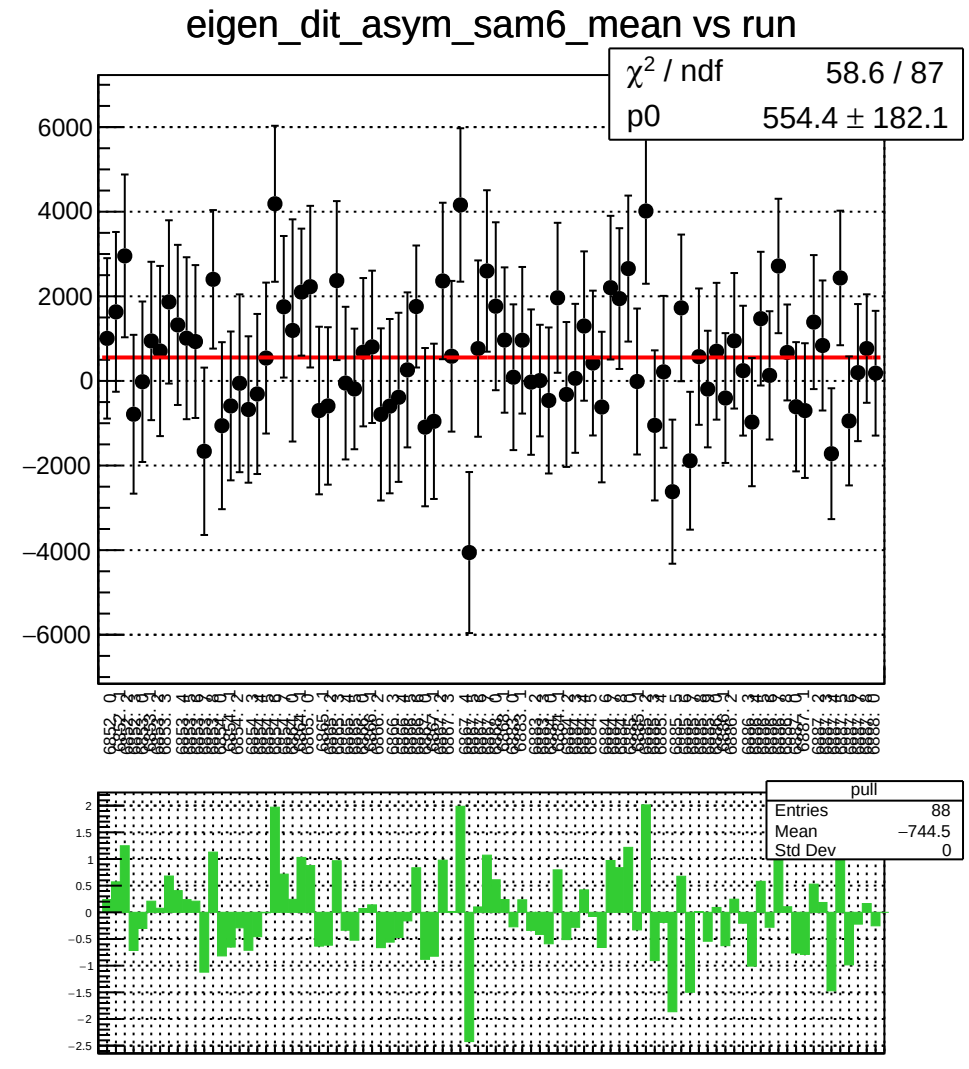

pull1D
Entries 88
Mean 0.002979
Std Dev 0.816
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

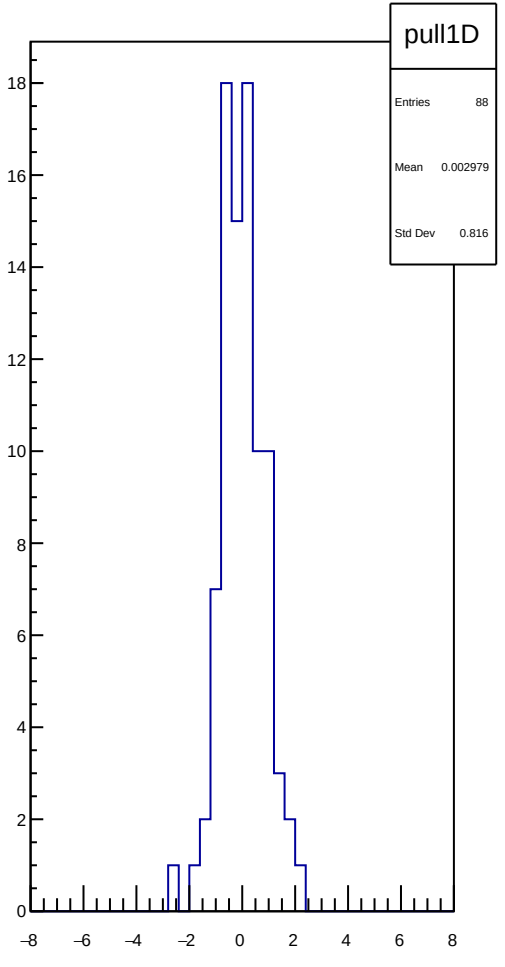

dit_asym_sam6_rms vs run
χ² / ndf 1.556e+04 / 87
p0 166.7 ± 0.1288
260
240
220
200
180
160
140

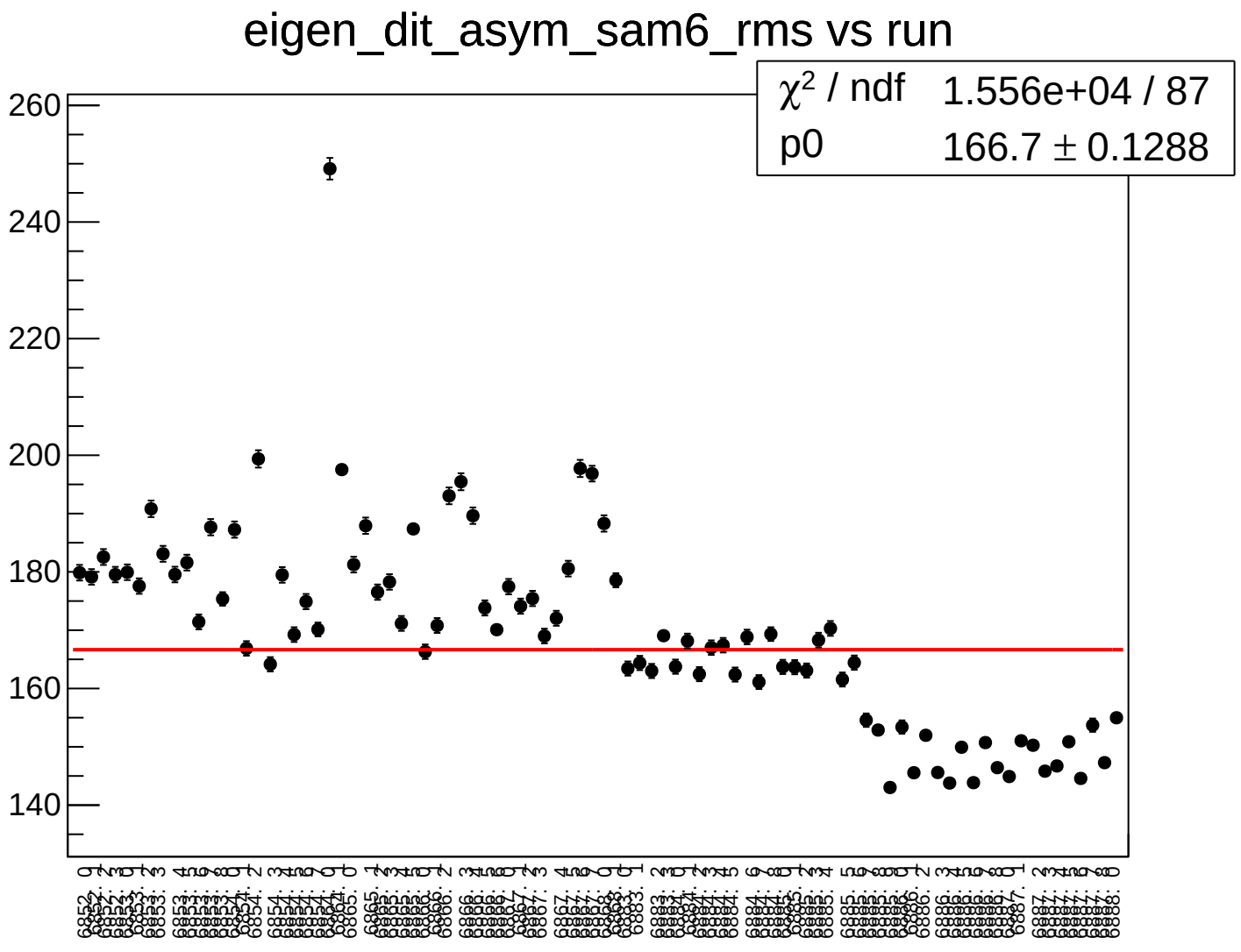

asym_sam6_dit_correction_mean vs run
χ² / ndf 69.31 / 87
p0 2185 ± 1376
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 926.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

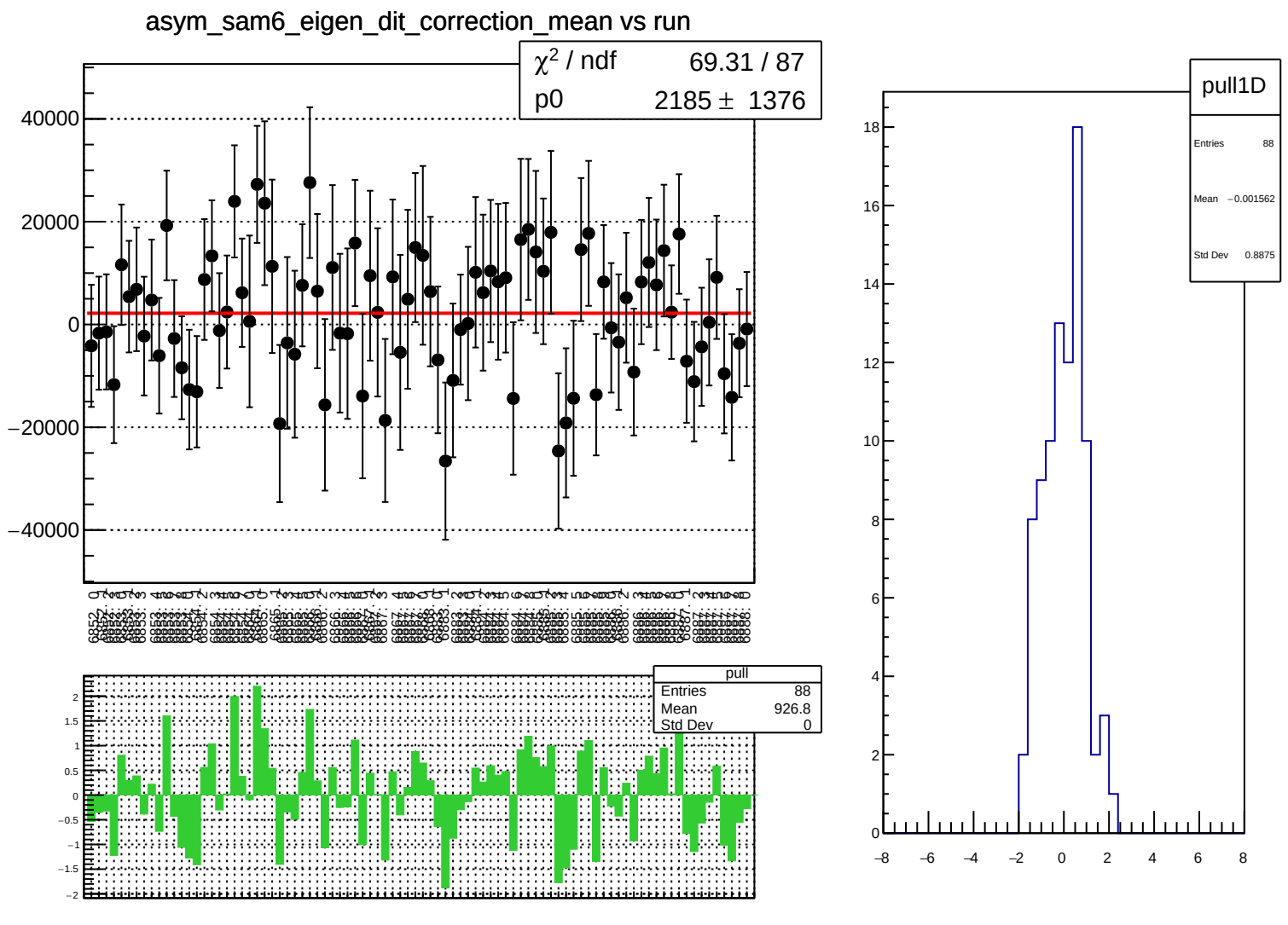

pull1D
Entries 88
Mean −0.001562
Std Dev 0.8875
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

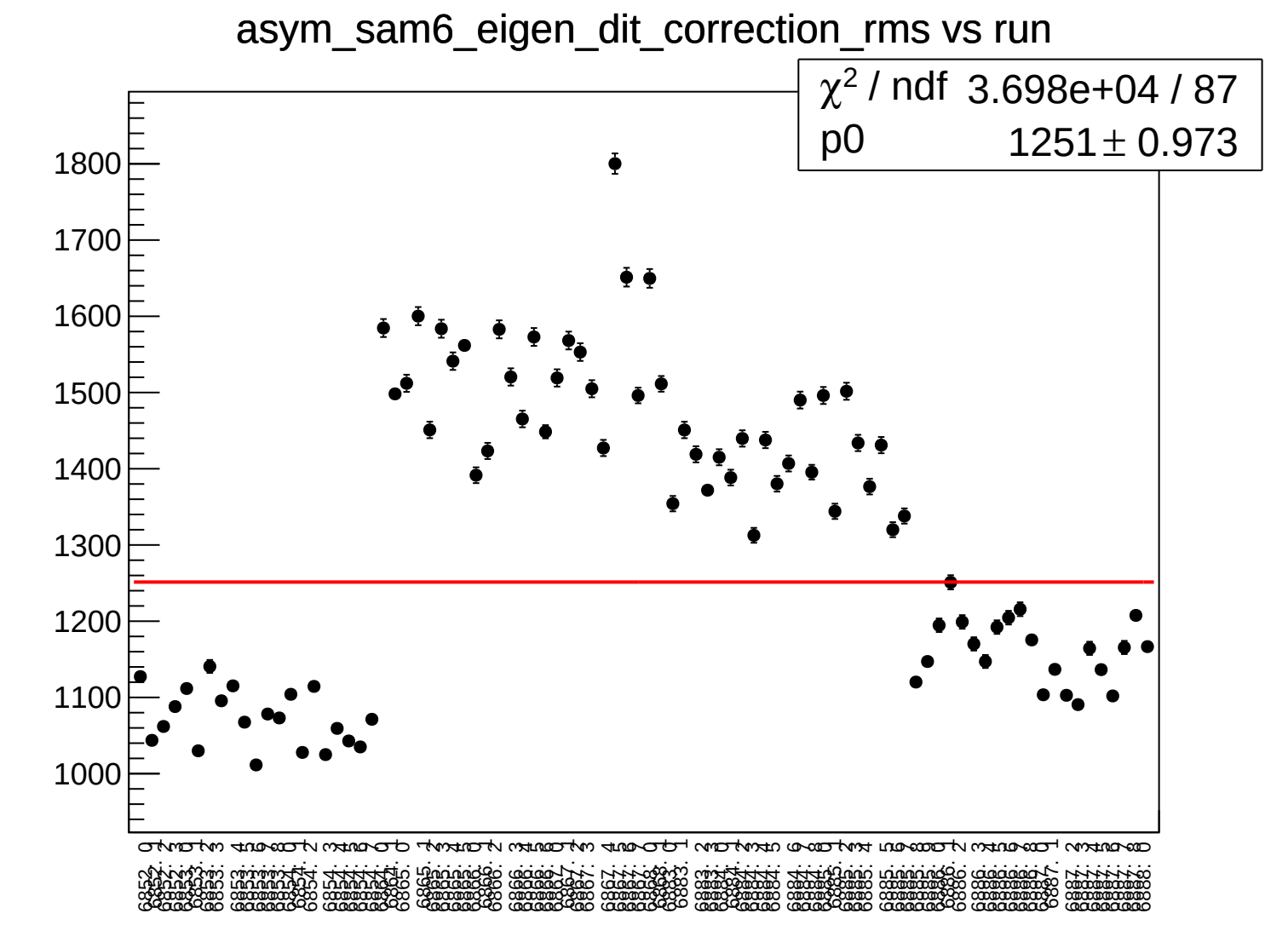

asym_sam6_dit_correction_rms vs run
χ^2 / ndf 3.698e+04 / 87
p0 1251 ± 0.973
1800
1700
1600
1500
1400
1300
1200
1100
1000

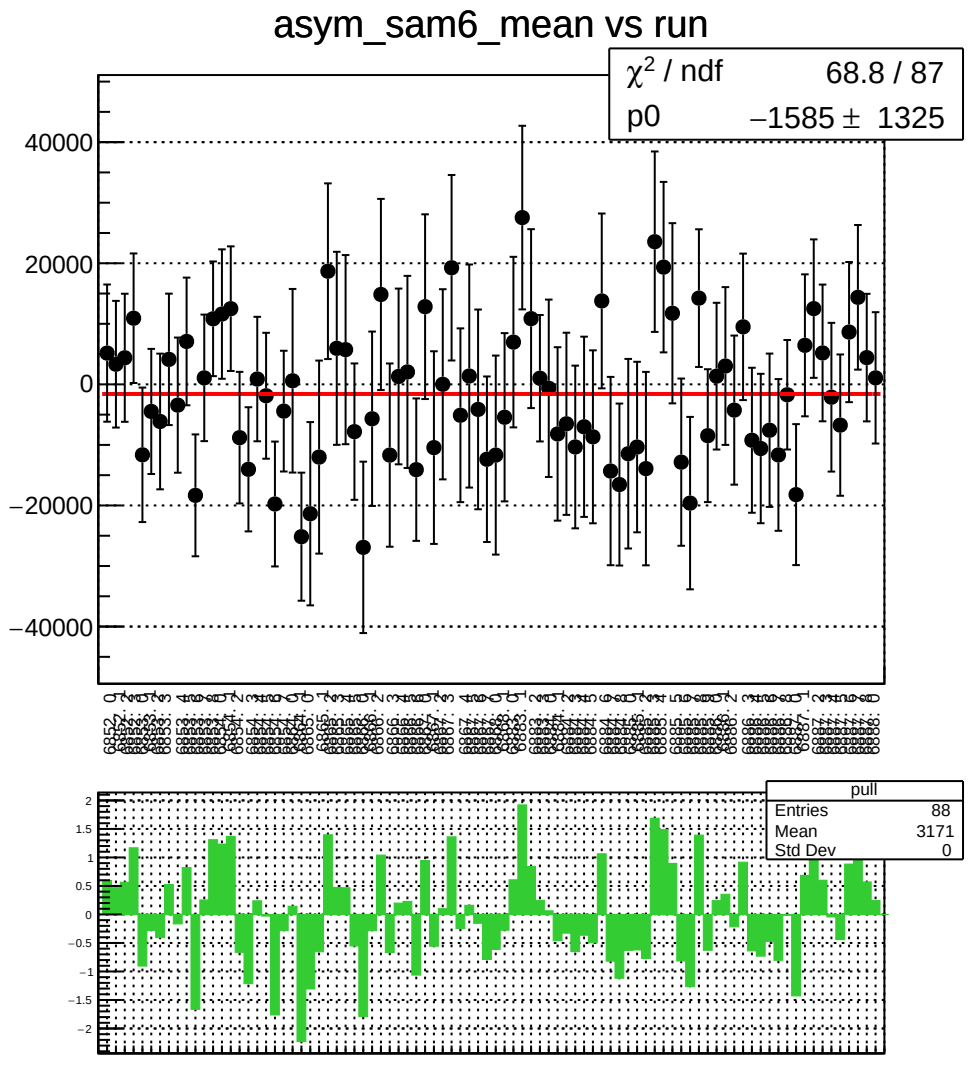

eigen_dit_asym_sam6_mean vs run
χ² / ndf 58.6 / 87
p0 554.4 ± 182.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −744.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

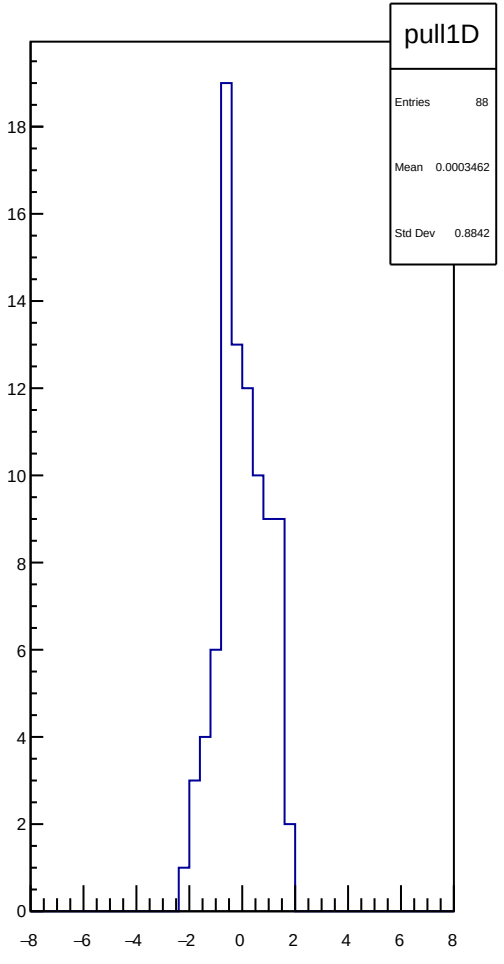

pull1D
Entries 88
Mean 0.002979
Std Dev 0.816
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

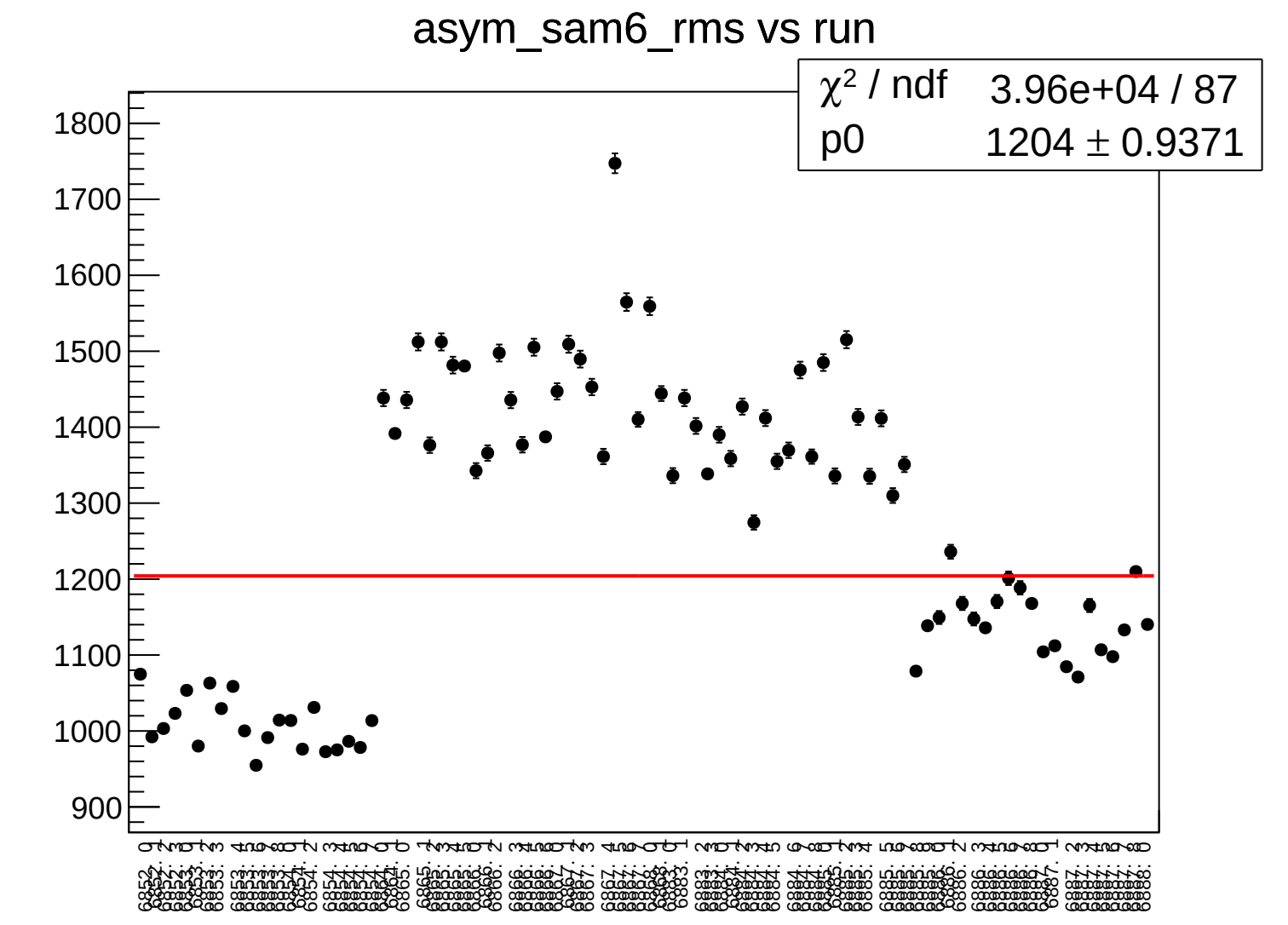

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1.556e+04 / 87
p0 166.7 ± 0.1288
260
240
220
200
180
160
140

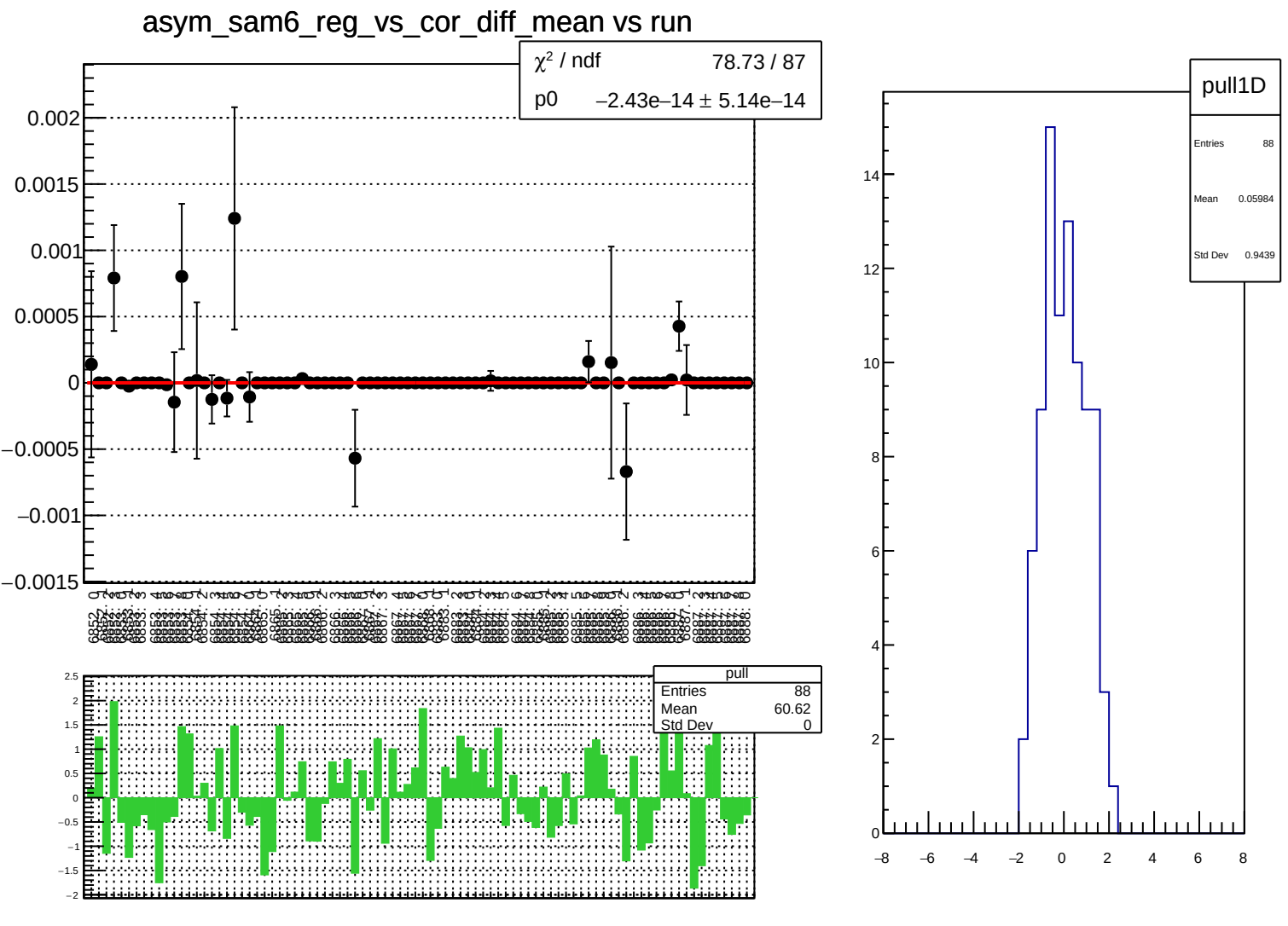

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 69.31 / 87
p0 2185 ± 1376
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 926.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.001562
Std Dev 0.8875
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

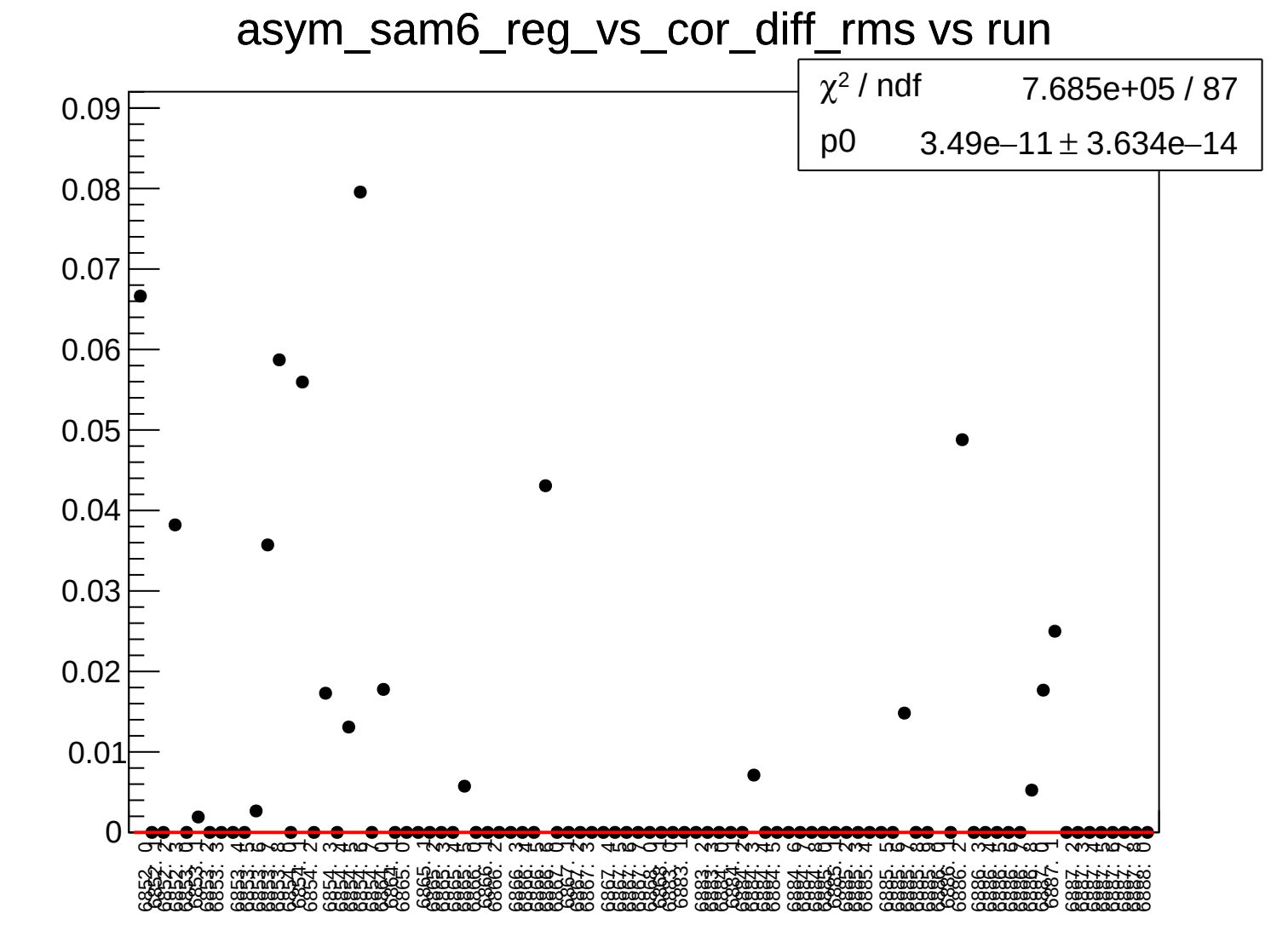

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 3.698e+04 / 87
p0 1251 ± 0.973
1800
1700
1600
1500
1400
1300
1200
1100
1000

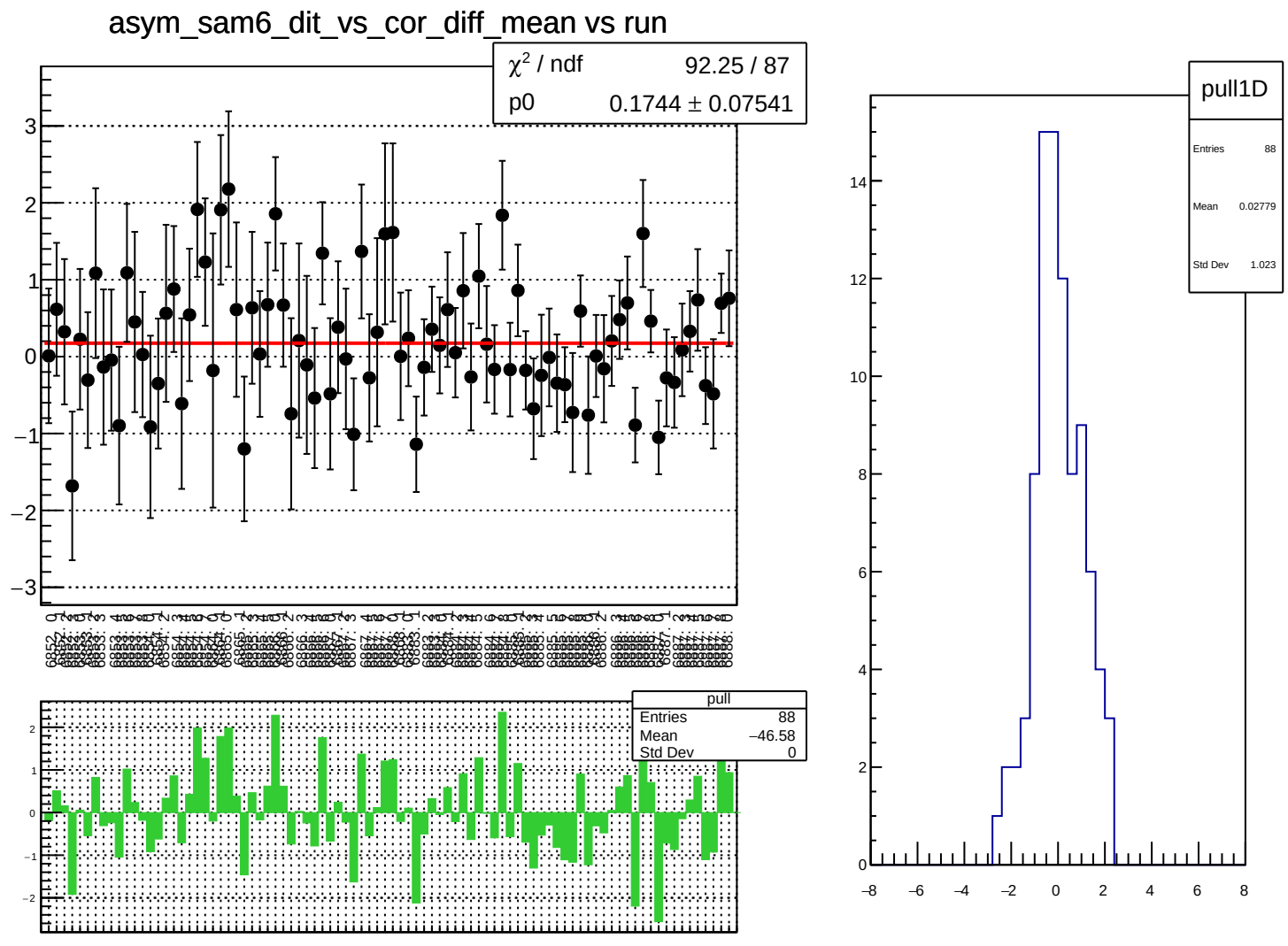

asym_sam6_mean vs run
χ² / ndf 68.8 / 87
p0 −1585 ± 1325
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 3171
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

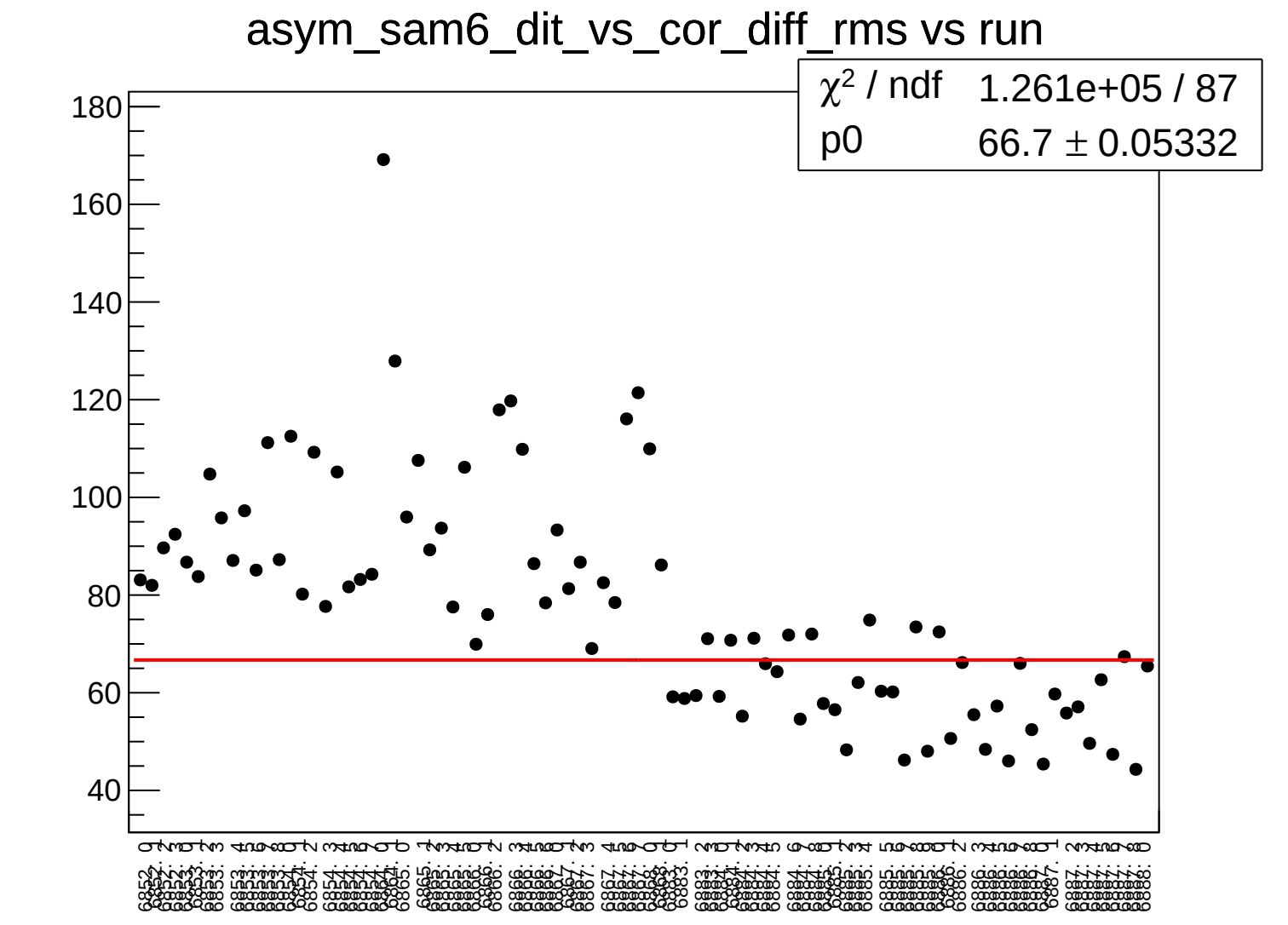

pull1D
Entries 88
Mean 0.0003462
Std Dev 0.8842
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

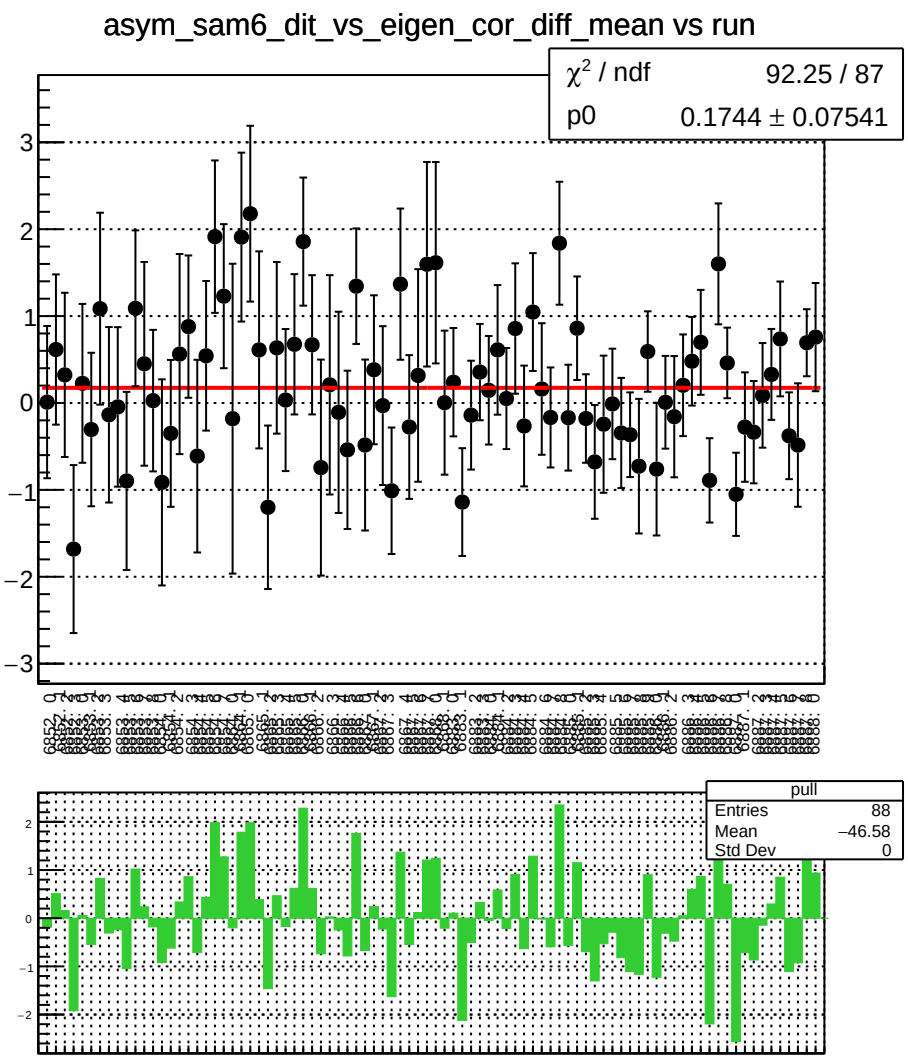

asym_sam6_rms vs run
χ² / ndf 3.96e+04 / 87
p0 1204 ± 0.9371
1800
1700
1600
1500
1400
1300
1200
1100
1000
900

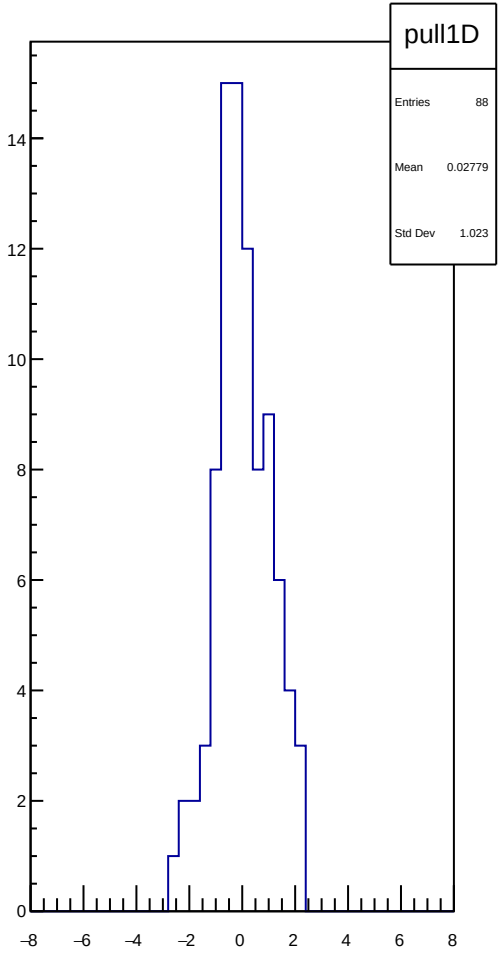

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 78.73 / 87
p0 −2.43e−14 ± 5.14e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 88
Mean 60.62
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.05984
Std Dev 0.9439
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

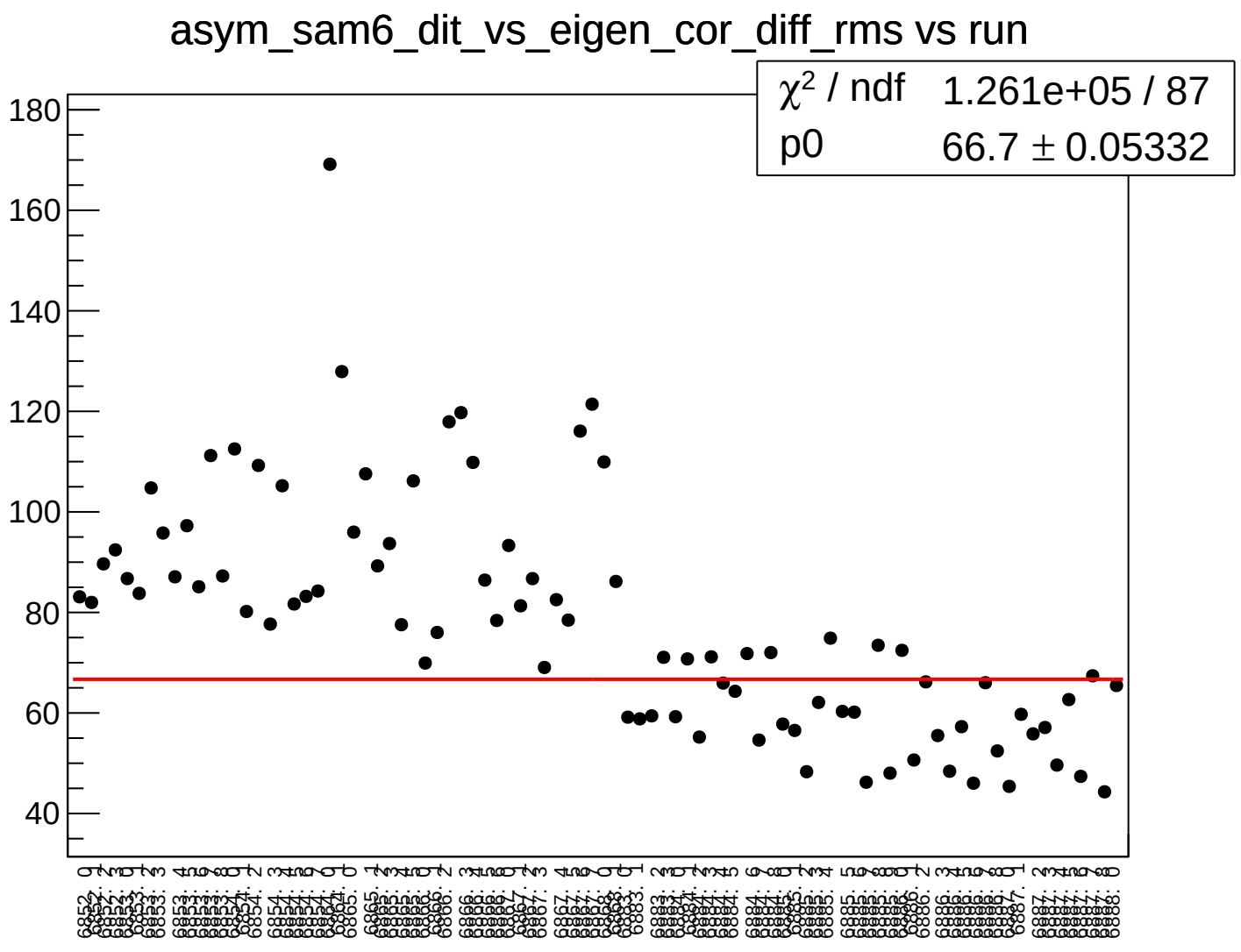

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 7.685e+05 / 87
p0 3.49e−11 ± 3.634e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

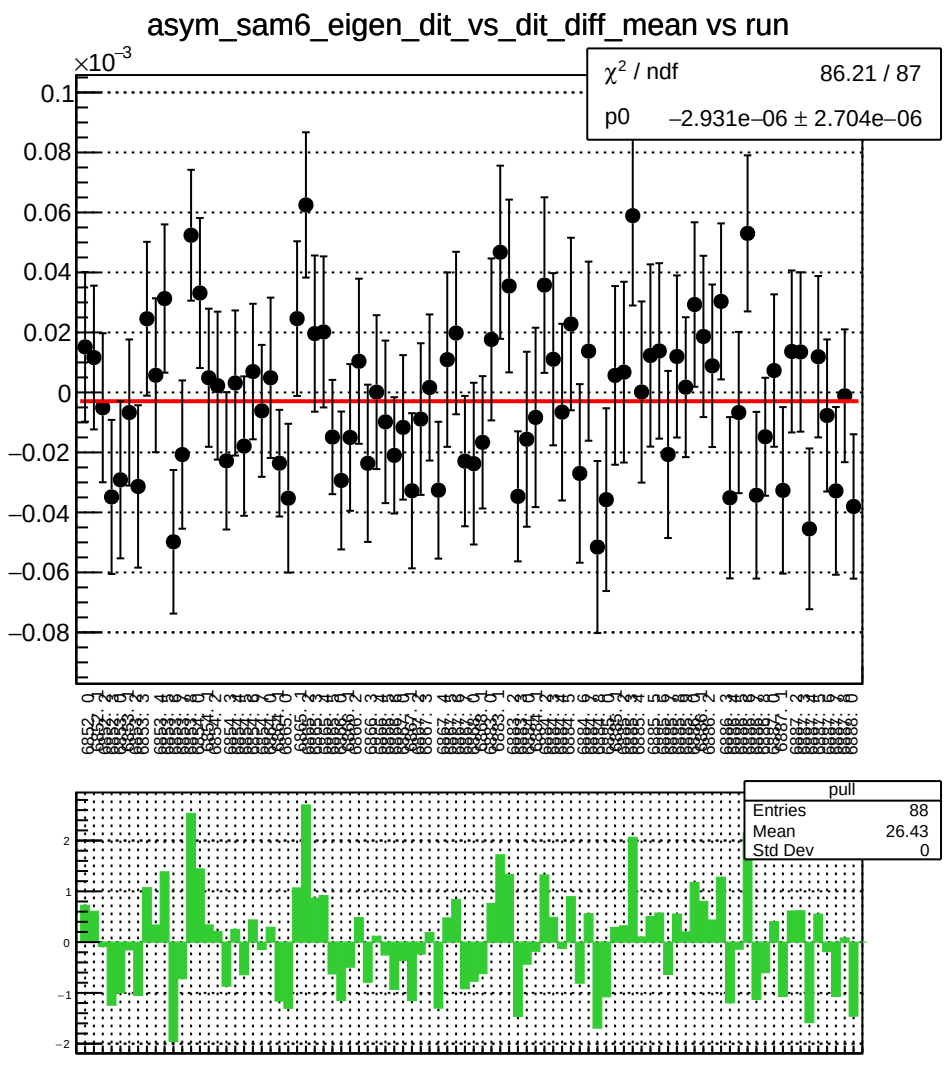

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 92.25 / 87
p0 0.1744 ± 0.07541
pull
Entries 88
Mean −46.58
Std Dev 0
pull1D
Entries 88
Mean 0.02779
Std Dev 1.023

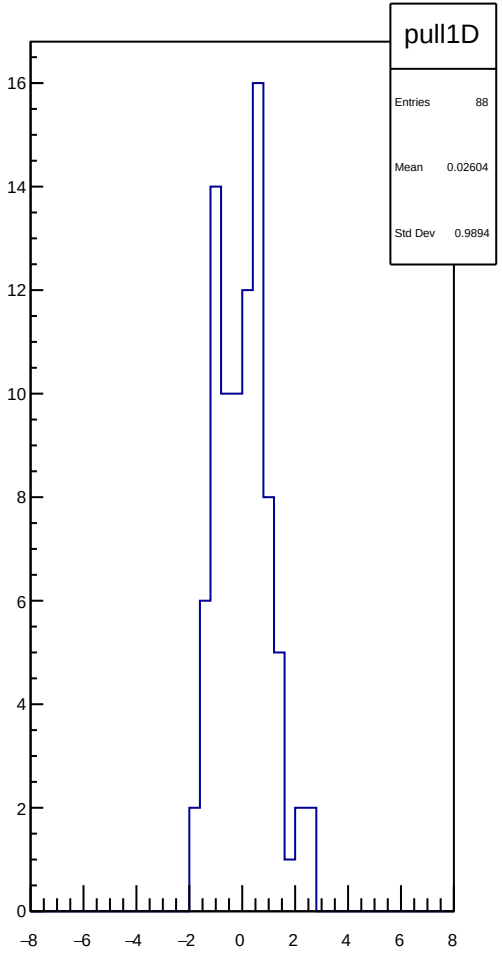

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 1.261e+05 / 87
p0 66.7 ± 0.05332
180
160
140
120
100
80
60
40

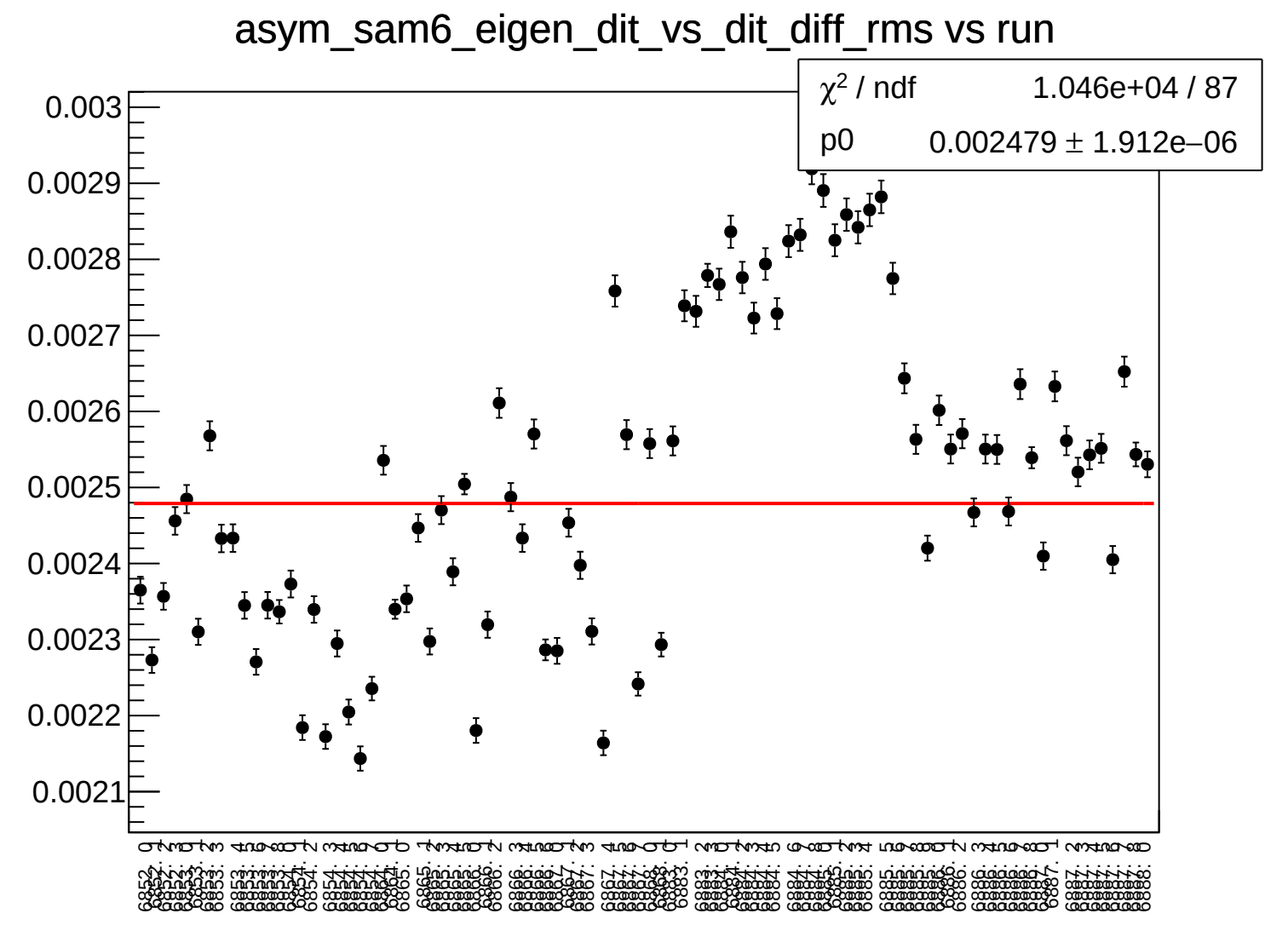

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.25 / 87
p0 0.1744 ± 0.07541
pull
Entries 88
Mean −46.58
Std Dev 0

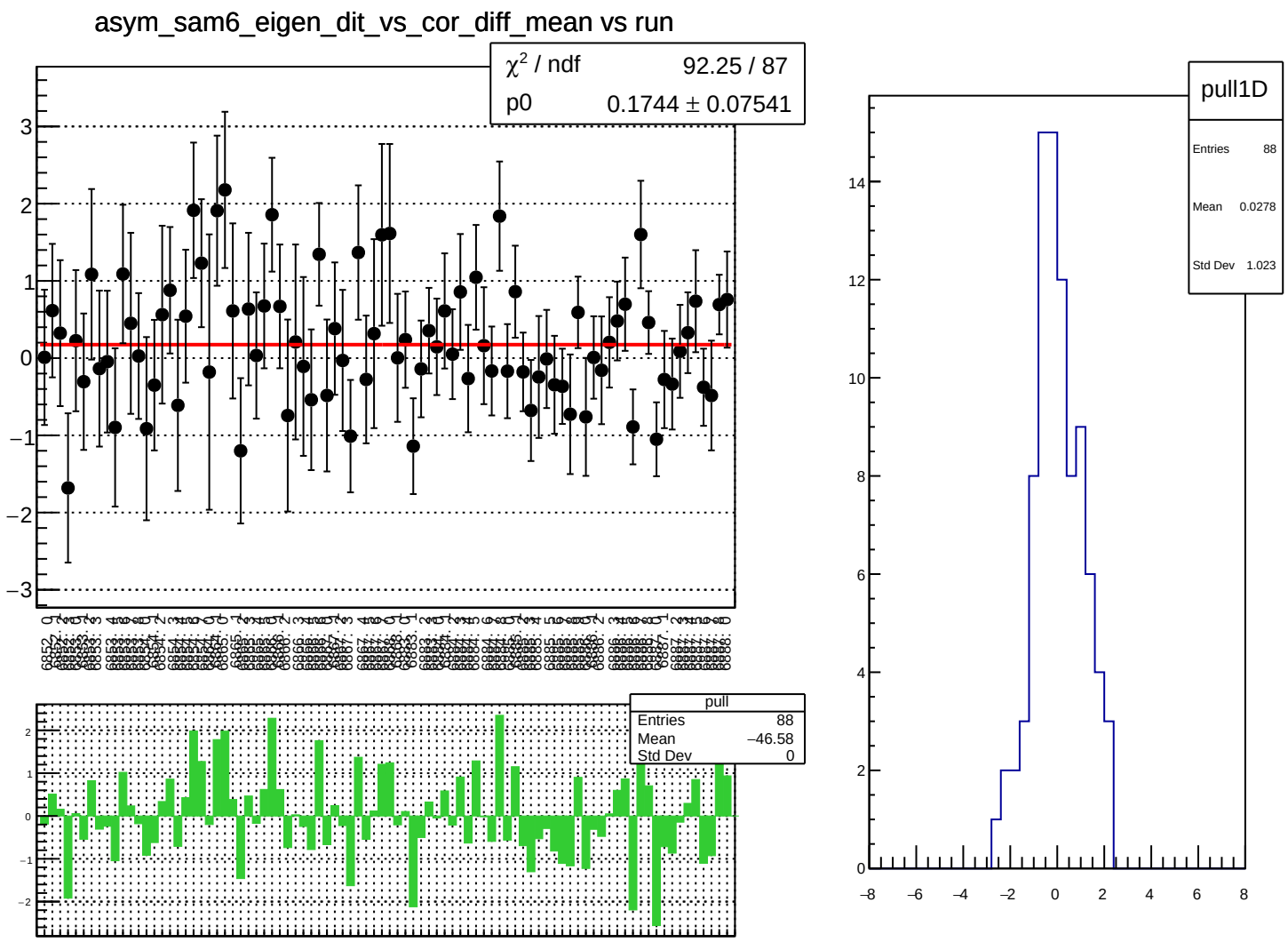

pull1D
Entries 88
Mean 0.02779
Std Dev 1.023

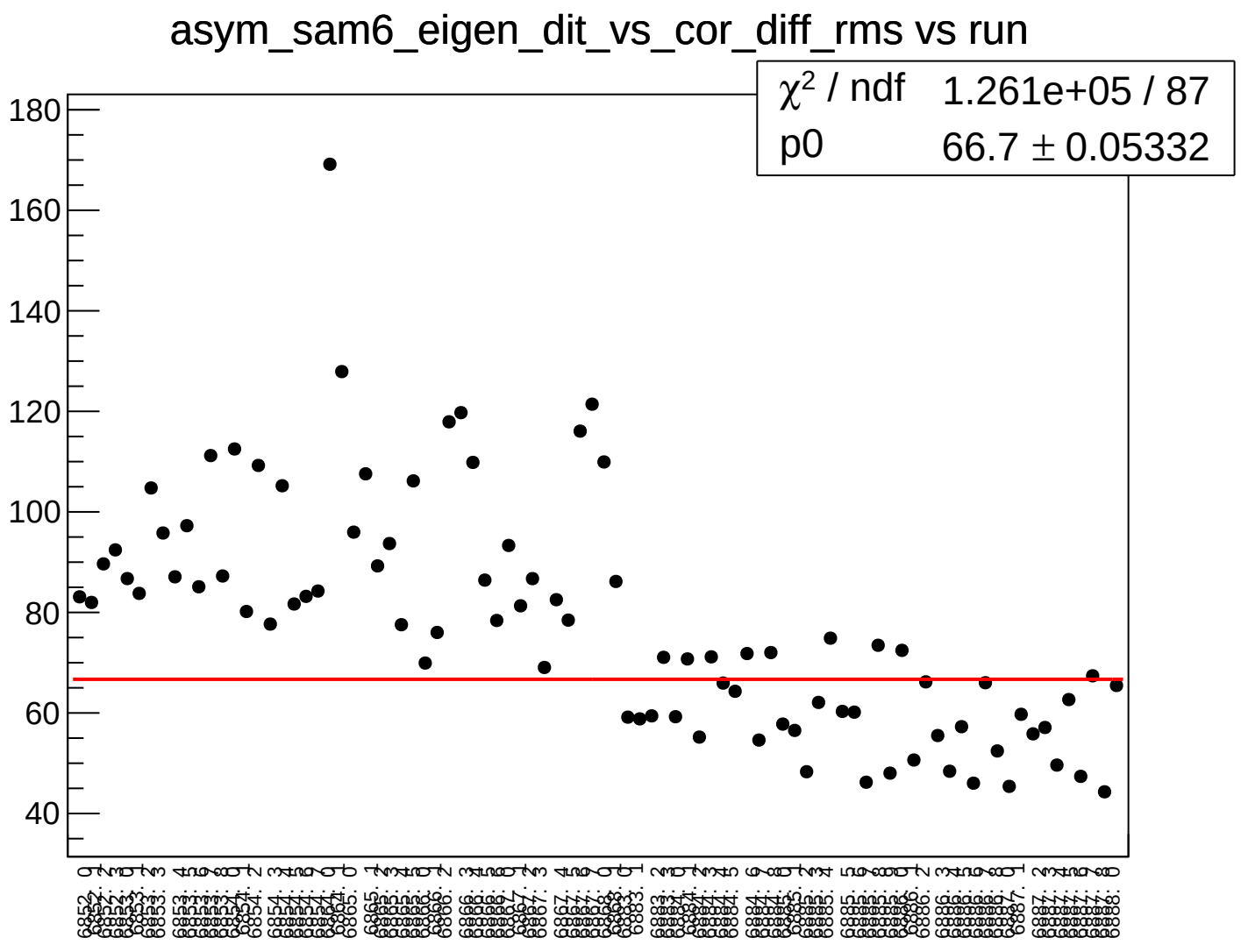

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.261e+05 / 87
p0 66.7 ± 0.05332
180
160
140
120
100
80
60
40

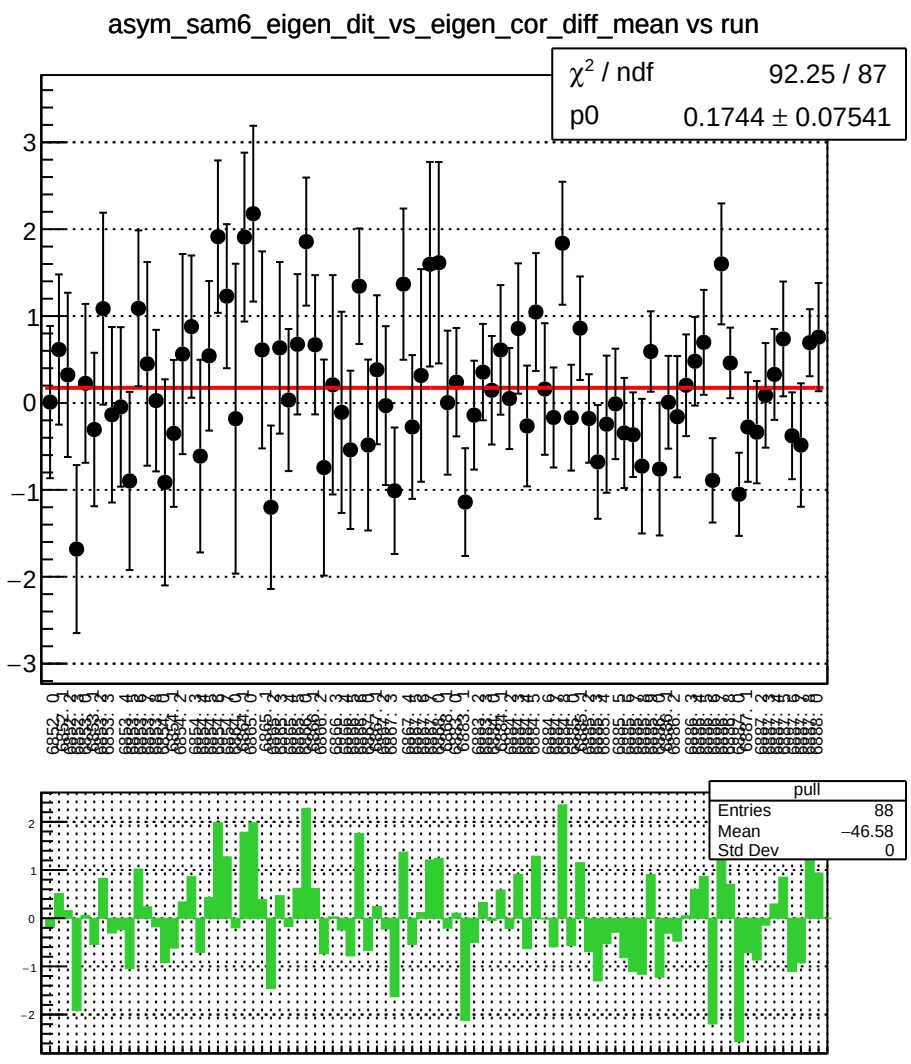

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.21 / 87
p0 −2.931e−06 ± 2.704e−06
pull
Entries 88
Mean 26.43
Std Dev 0

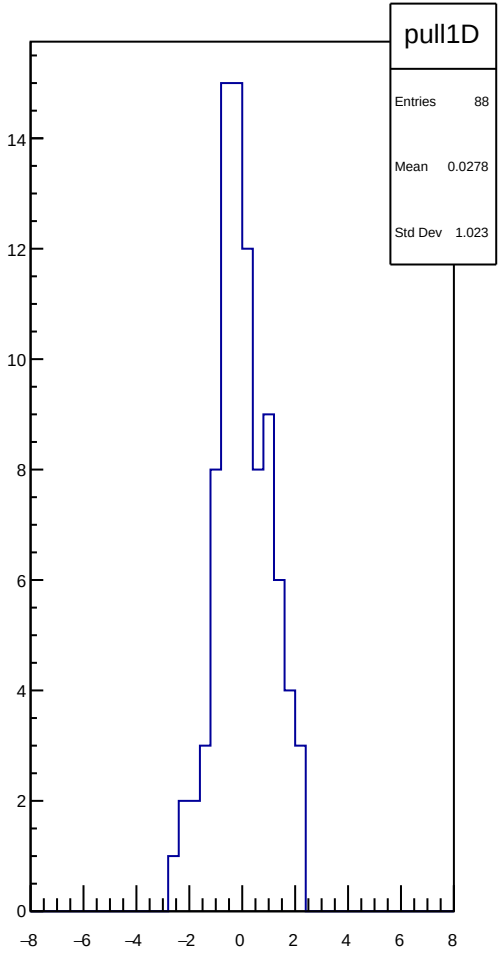

pull1D
Entries 88
Mean 0.02604
Std Dev 0.9894

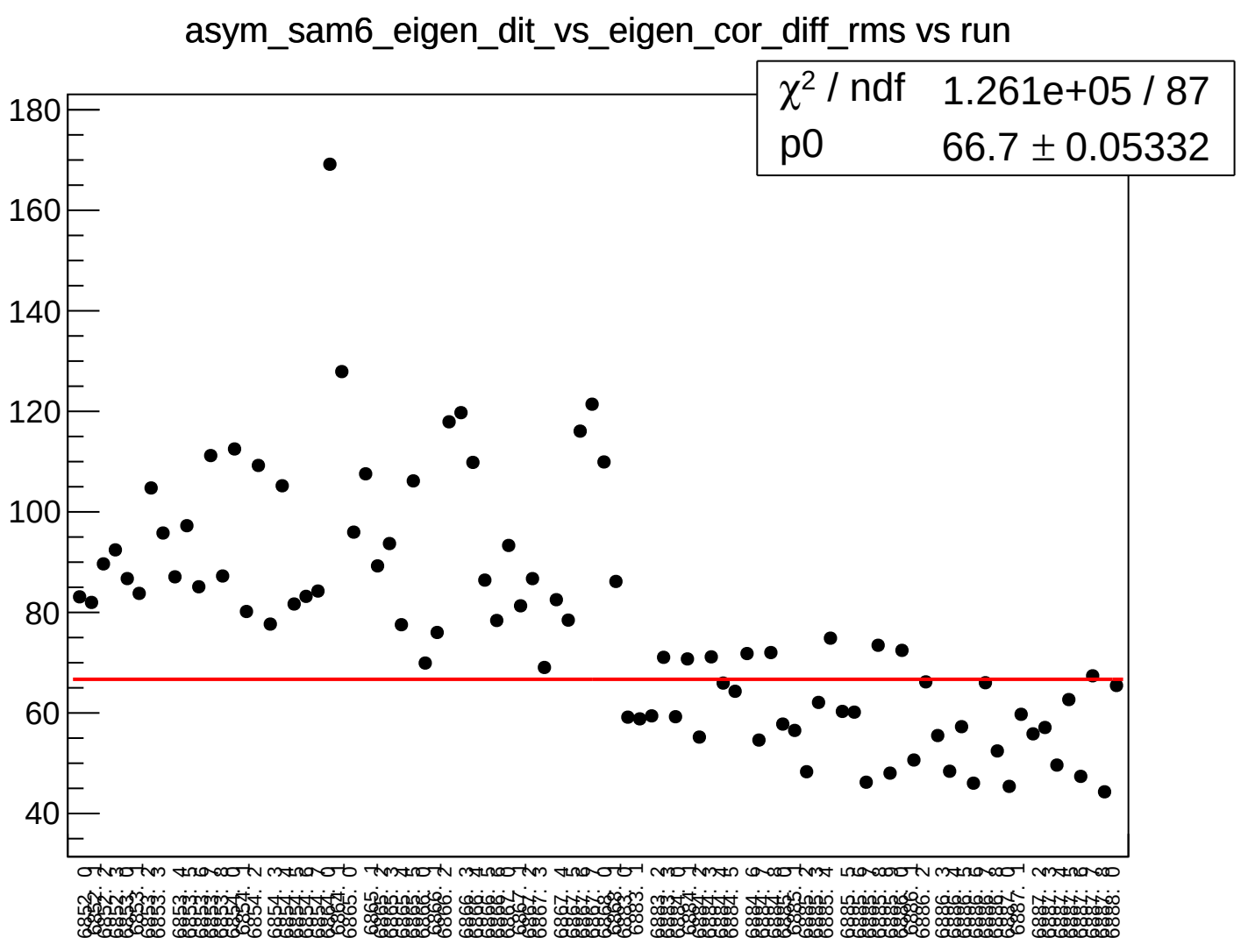

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.046e+04 / 87
p0 0.002479 ± 1.912e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

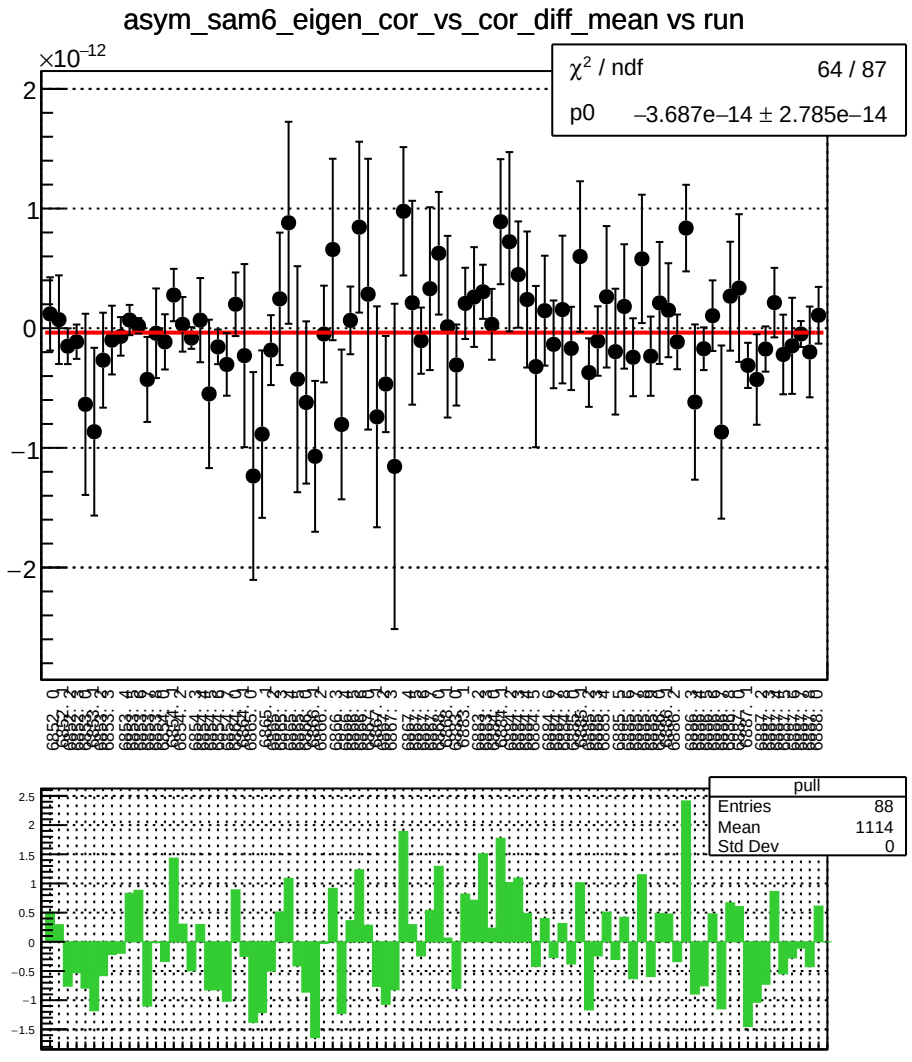

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.25 / 87
p0 0.1744 ± 0.07541
pull
Entries 88
Mean −46.58
Std Dev 0
pull1D
Entries 88
Mean 0.0278
Std Dev 1.023

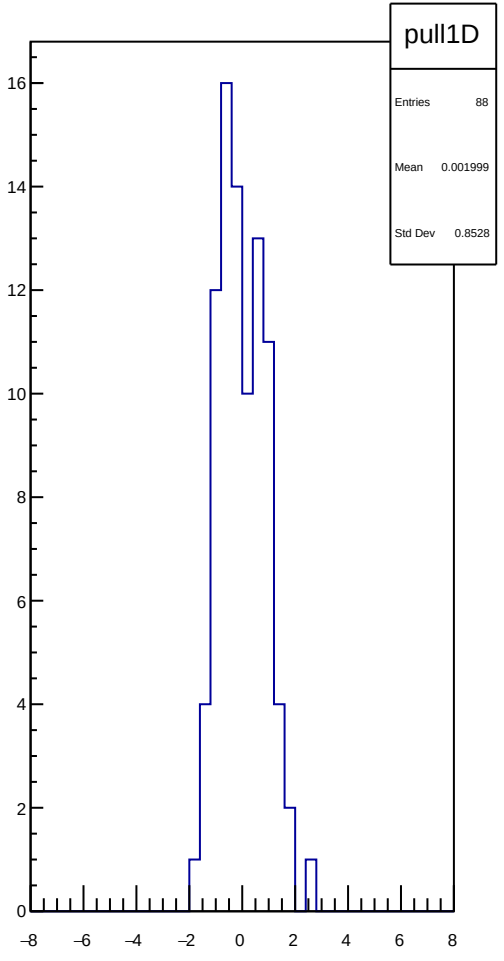

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.261e+05 / 87
p0 66.7 ± 0.05332
180
160
140
120
100
80
60
40

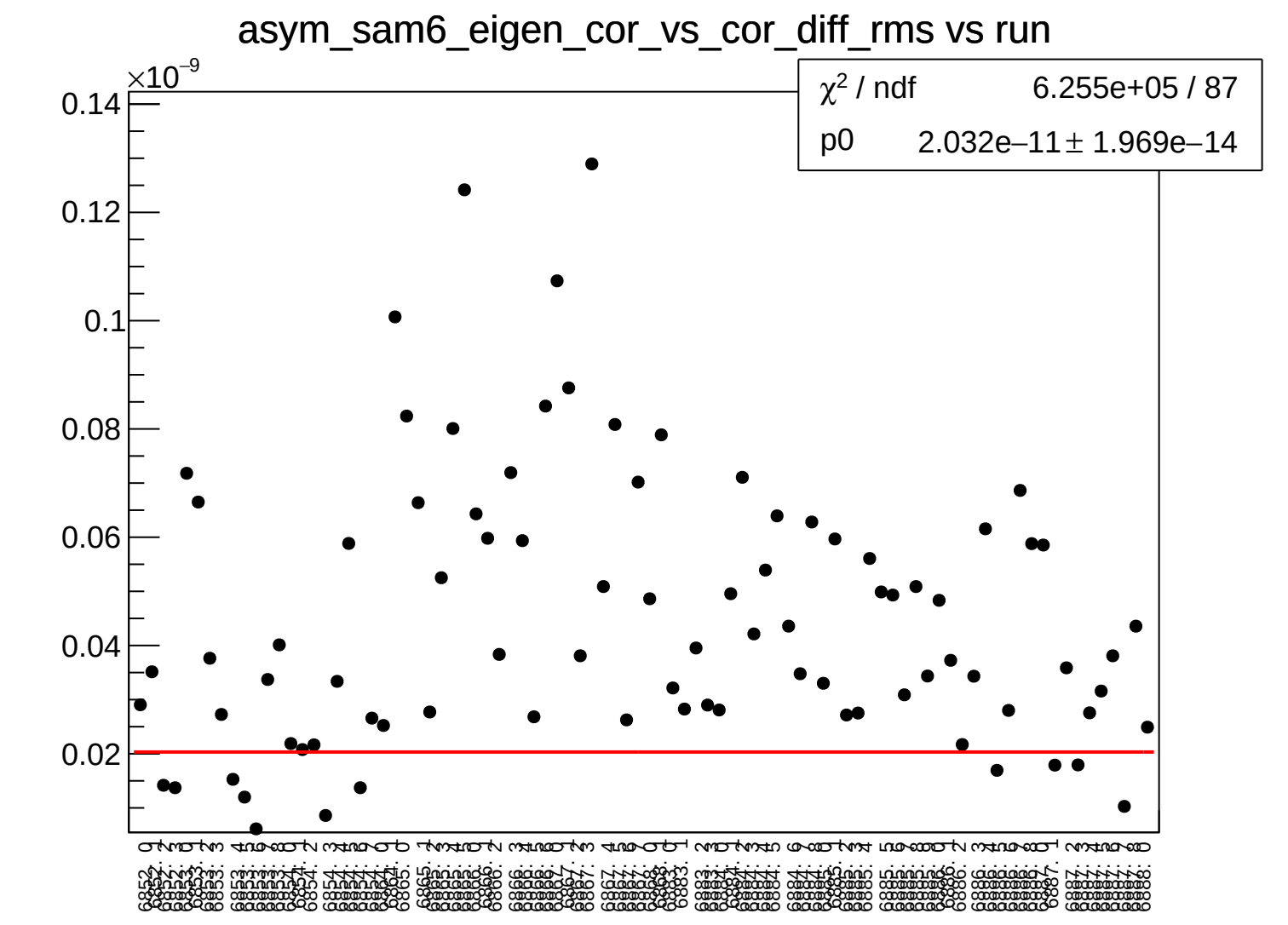

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.25 / 87
p0 0.1744 ± 0.07541
pull
Entries 88
Mean −46.58
Std Dev 0

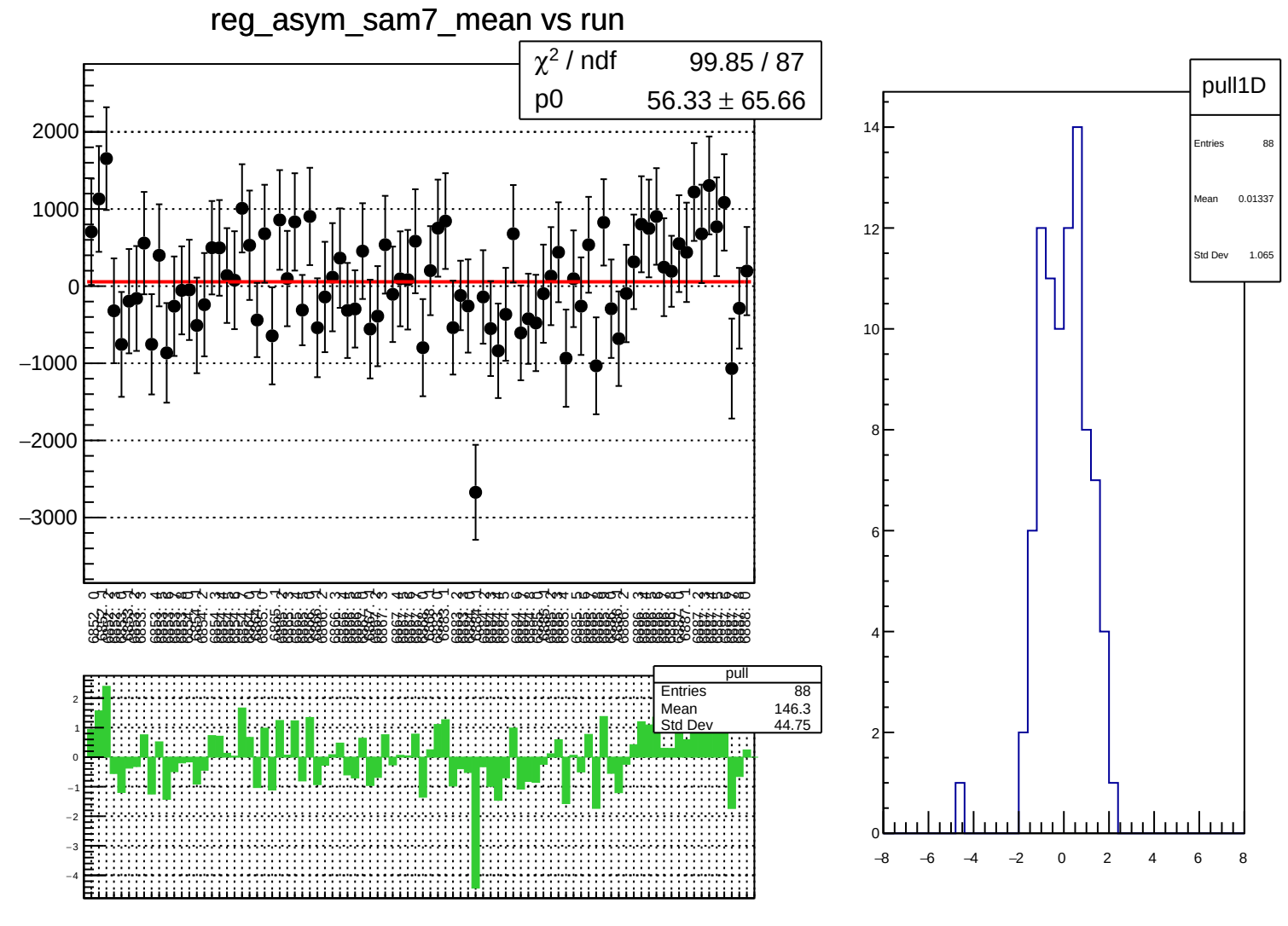

pull1D
Entries 88
Mean 0.0278
Std Dev 1.023

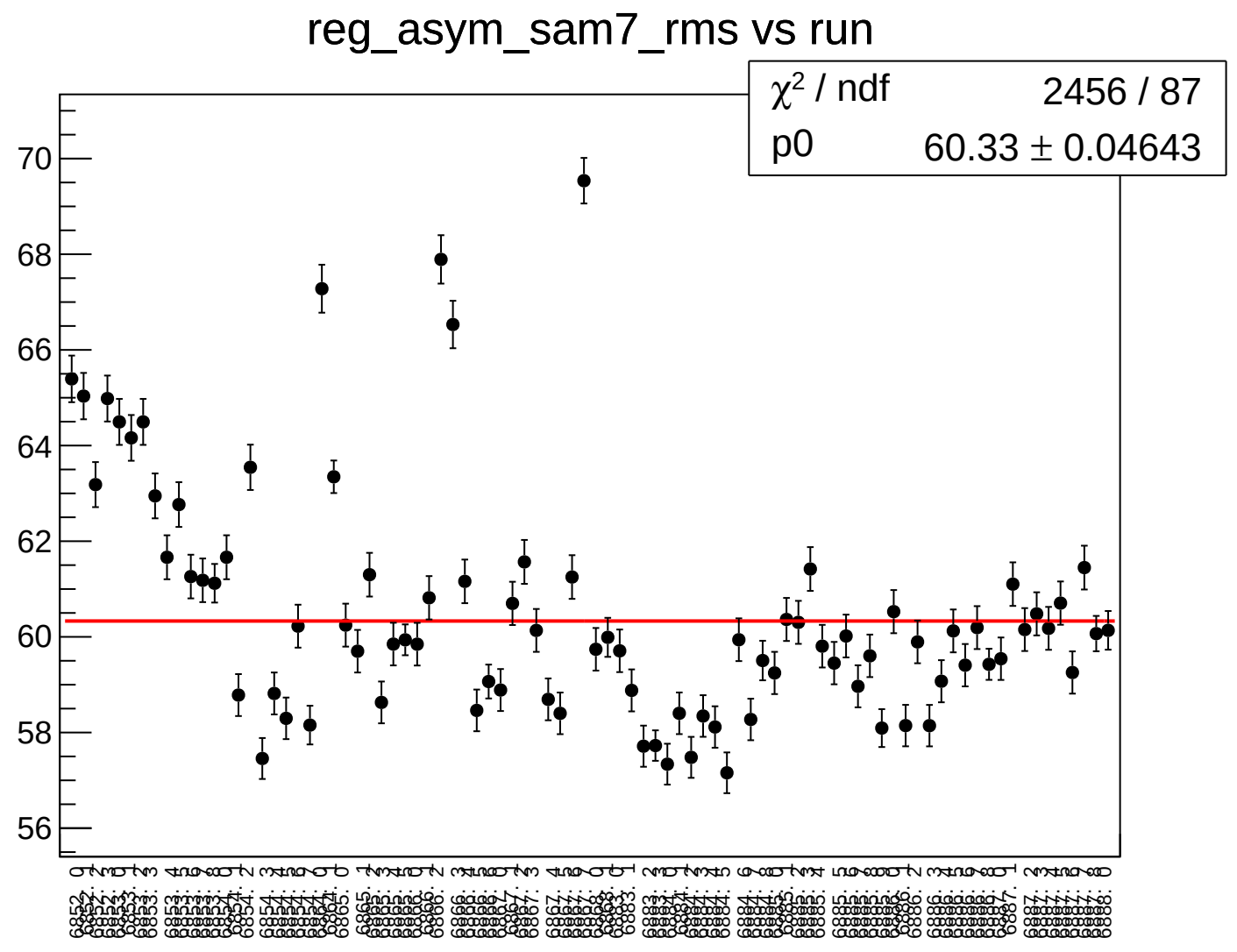

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.261e+05 / 87
p0 66.7 ± 0.05332
180
160
140
120
100
80
60
40

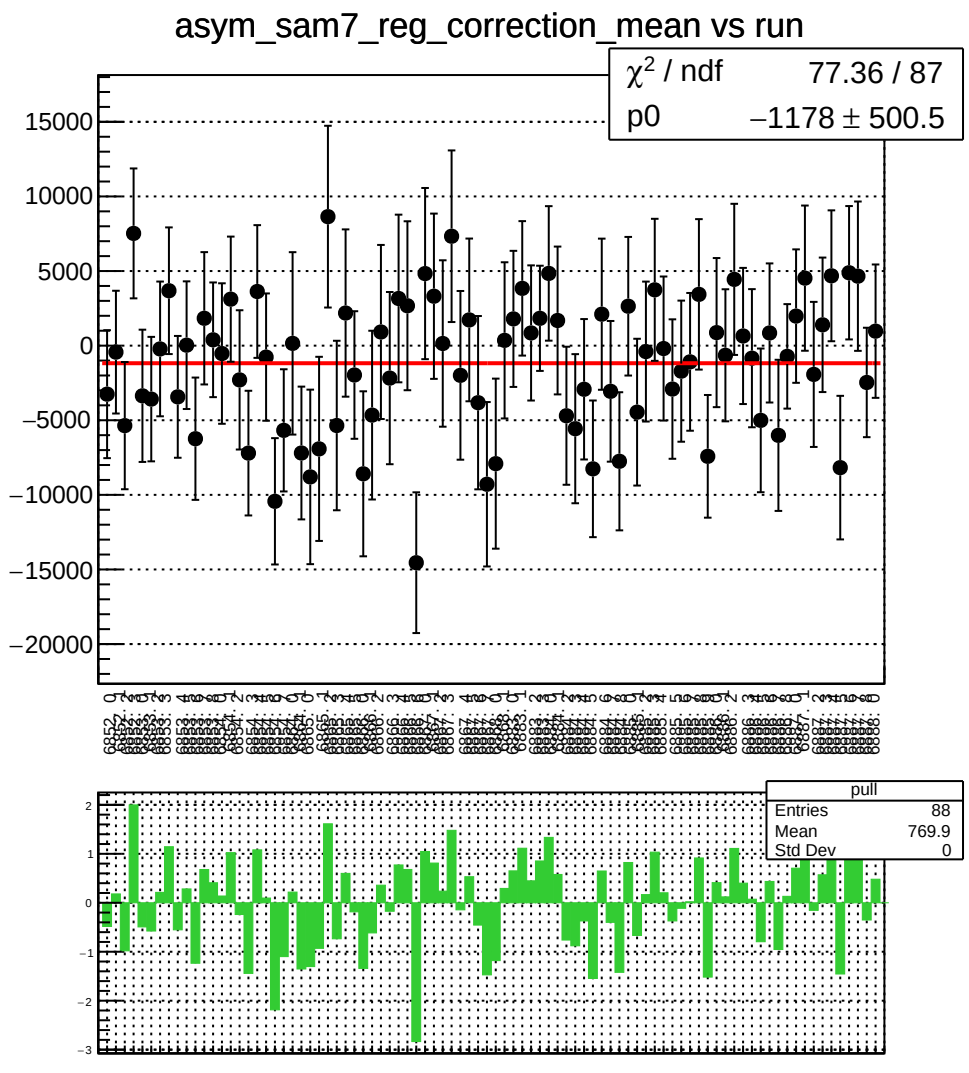

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64 / 87
p0 −3.687e−14 ± 2.785e−14
pull
Entries 88
Mean 1114
Std Dev 0

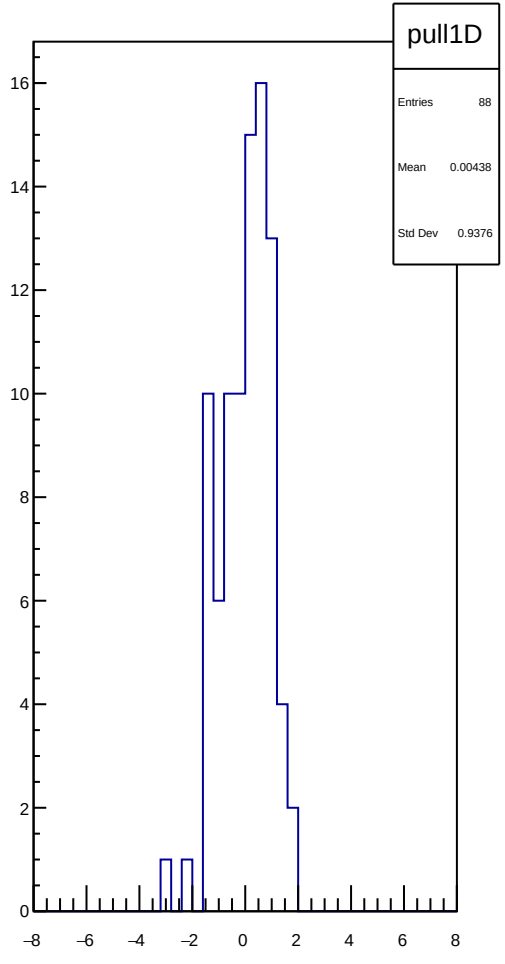

pull1D
Entries 88
Mean 0.001999
Std Dev 0.8528

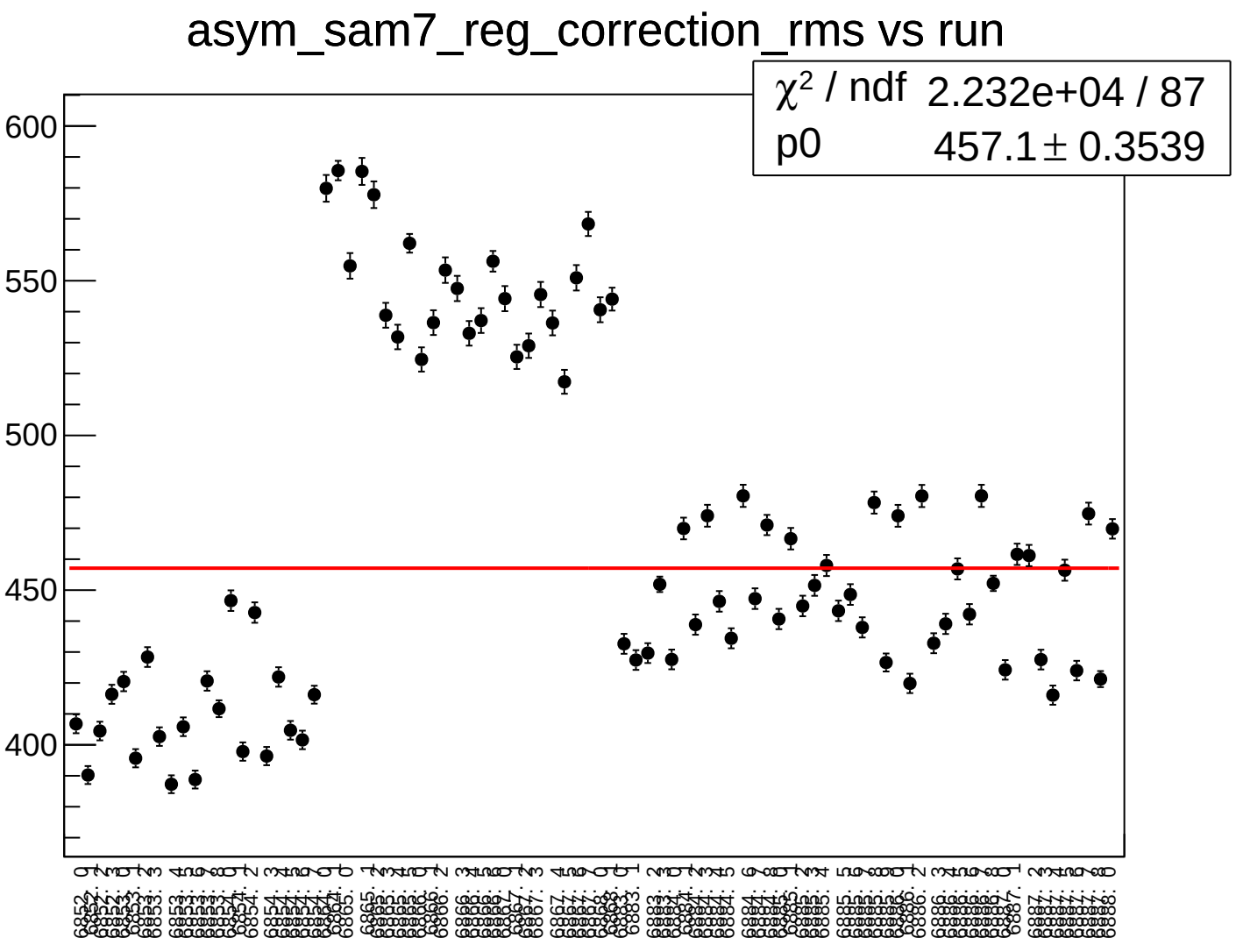

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 6.255e+05 / 87
p0 2.032e−11 ± 1.969e−14

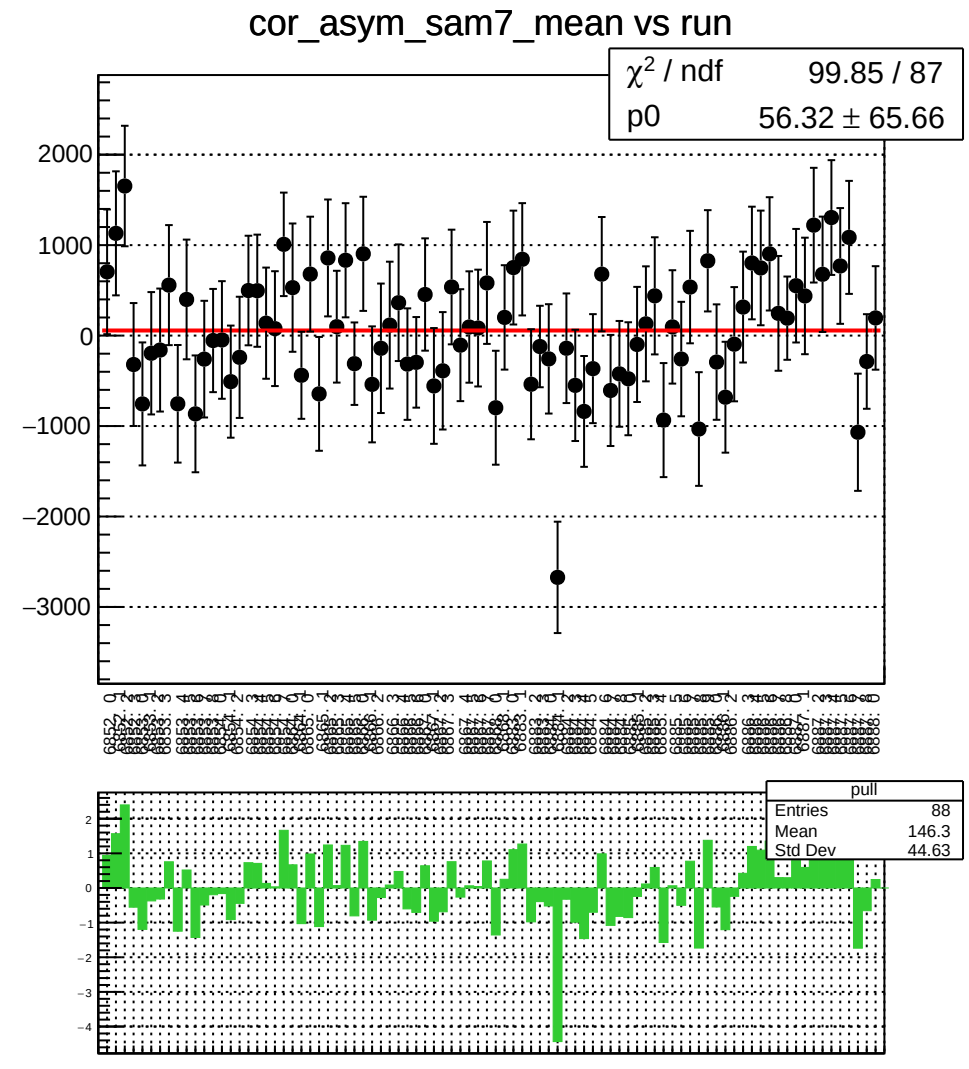

reg_asym_sam7_mean vs run
χ^2 / ndf 99.85 / 87
p0 56.33 ± 65.66
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 146.3
Std Dev 44.75
2
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean 0.01337
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

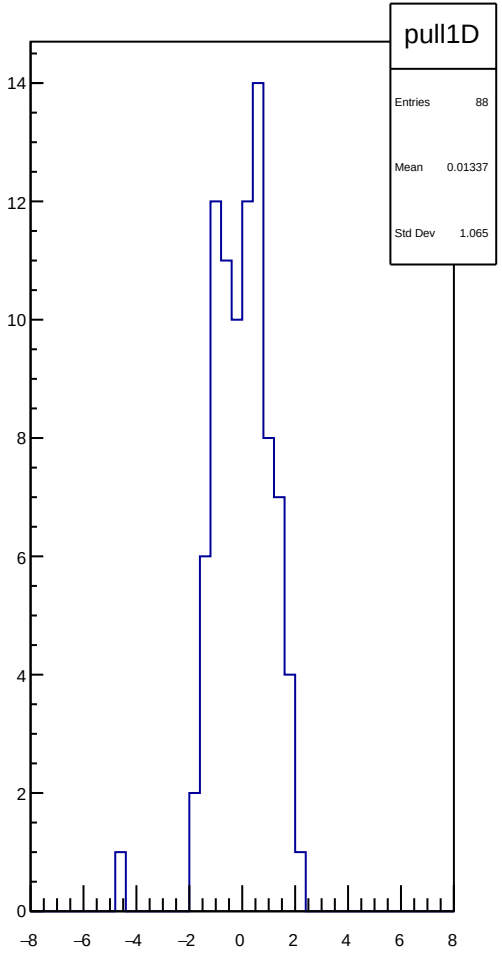

reg_asym_sam7_rms vs run
χ² / ndf 2456 / 87
p0 60.33 ± 0.04643
70
68
66
64
62
60
58
56

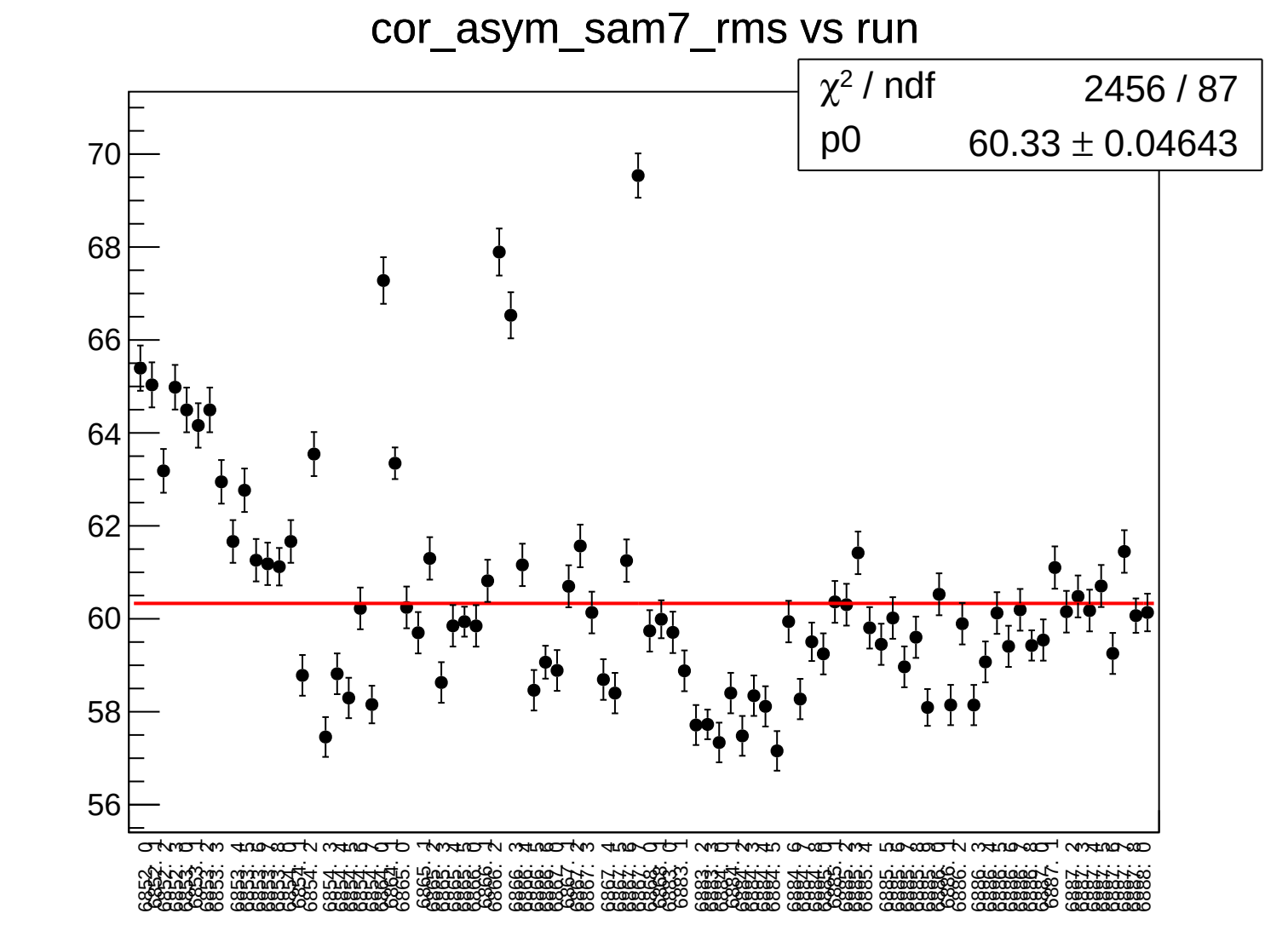

asym_sam7_reg_correction_mean vs run
χ² / ndf 77.36 / 87
p0 −1178 ± 500.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 769.9
Std Dev 0
2
1
0
−1
−2
−3

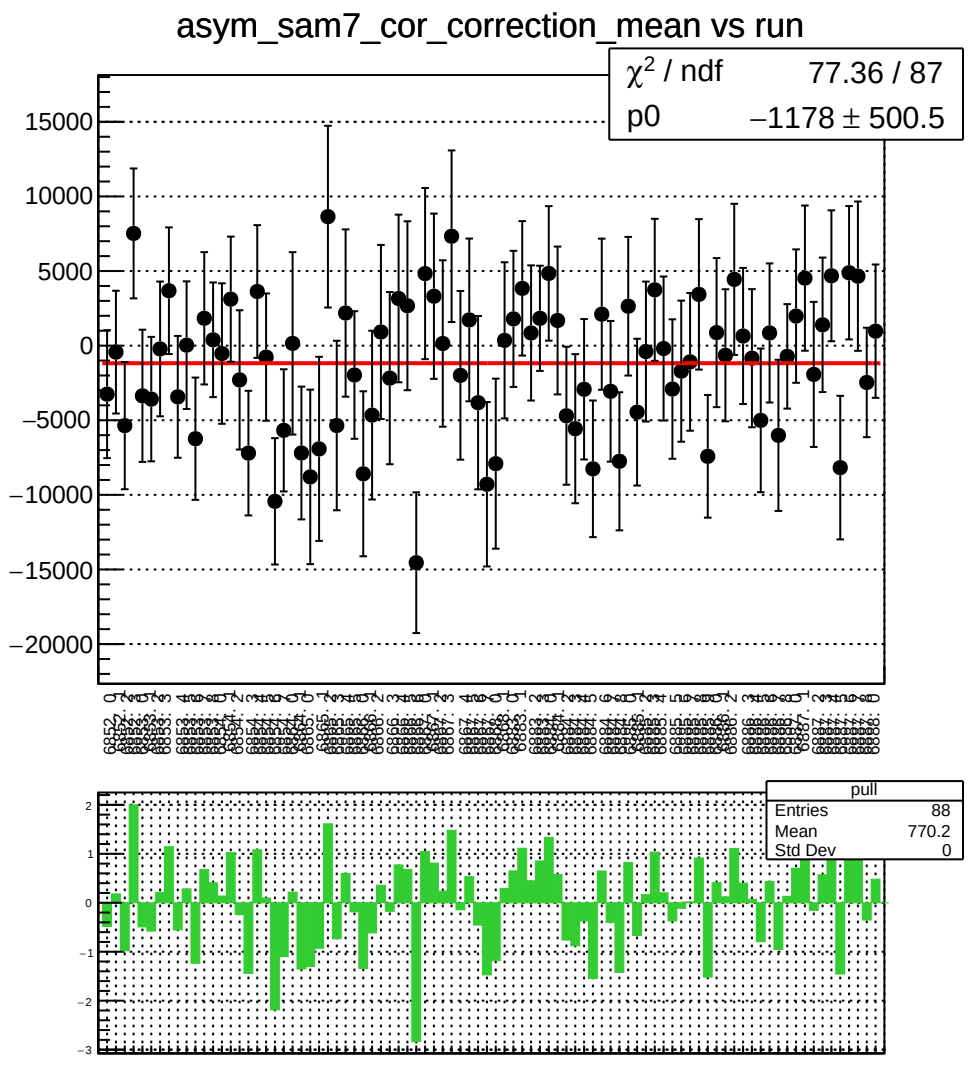

pull1D
Entries 88
Mean 0.00438
Std Dev 0.9376
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

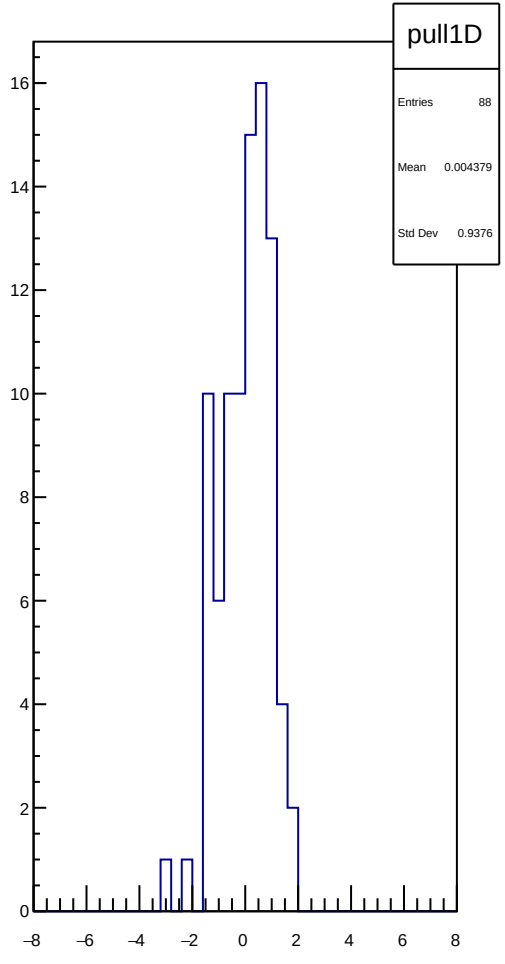

asym_sam7_reg_correction_rms vs run
χ² / ndf 2.232e+04 / 87
p0 457.1 ± 0.3539
600
550
500
450
400

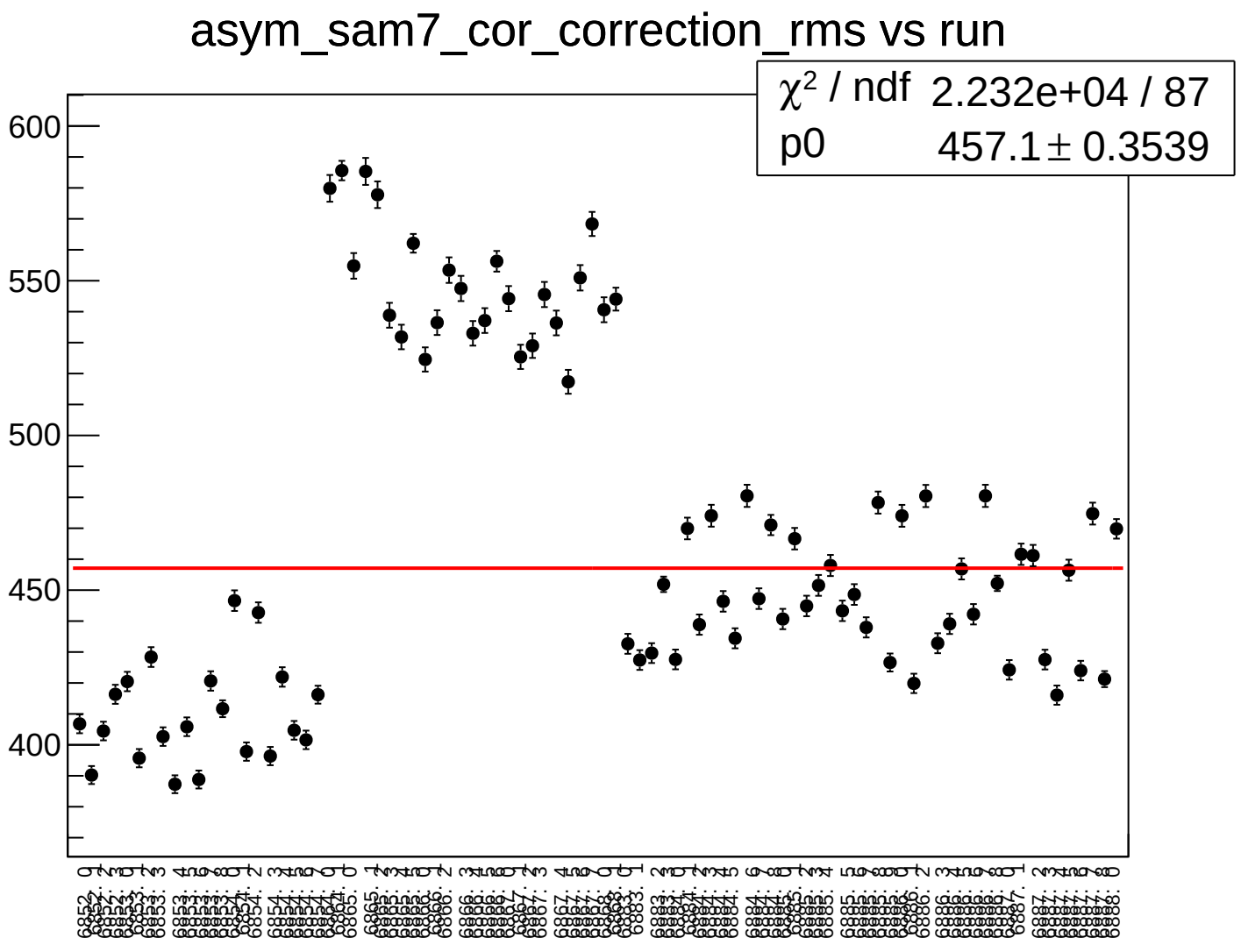

cor_asym_sam7_mean vs run
χ^2 / ndf 99.85 / 87
p0 56.32 ± 65.66
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 146.3
Std Dev 44.63
2
1
0
−1
−2
−3
−4

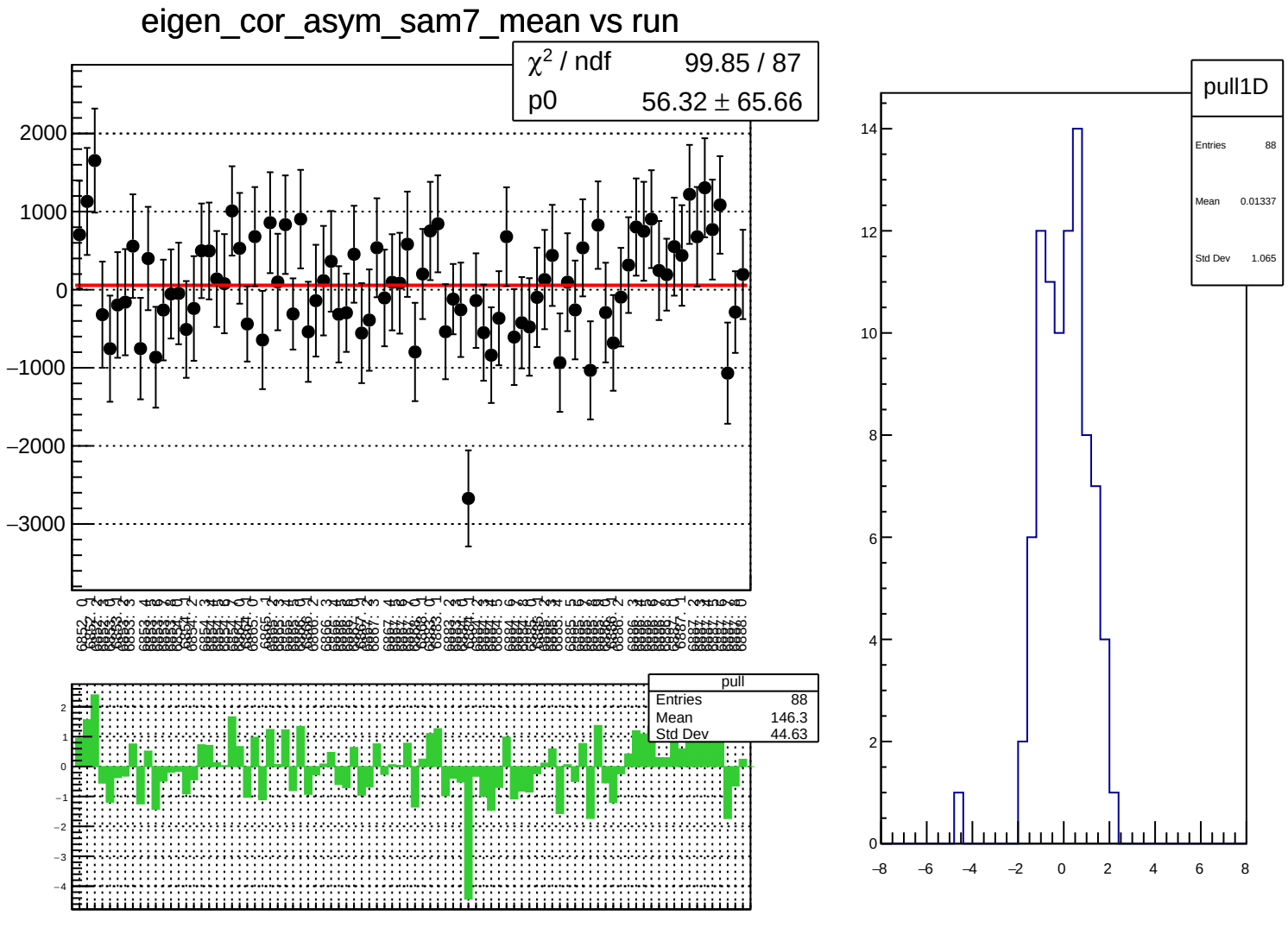

pull1D
Entries 88
Mean 0.01337
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

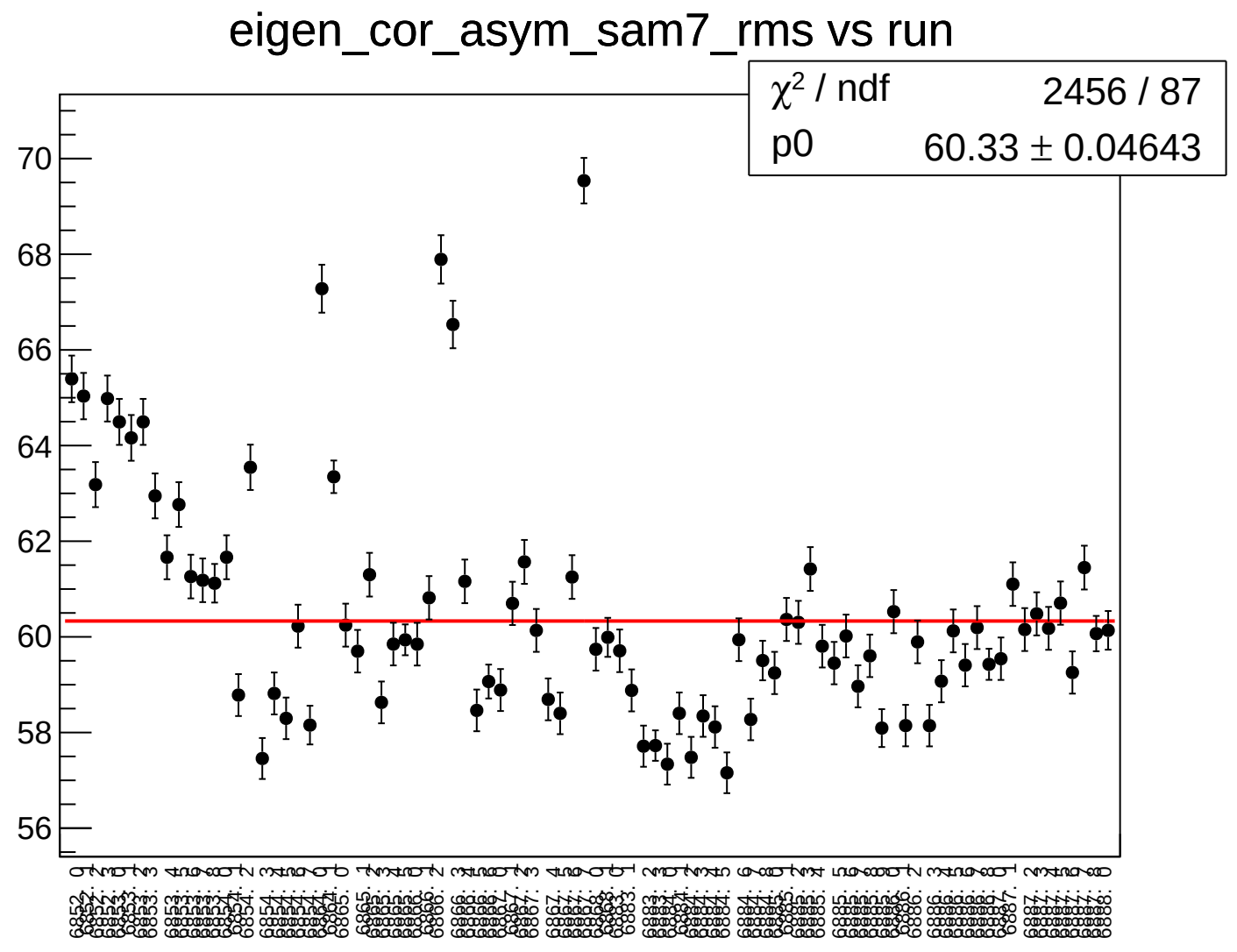

cor_asym_sam7_rms vs run
χ^2 / ndf 2456 / 87
p0 60.33 ± 0.04643
70
68
66
64
62
60
58
56

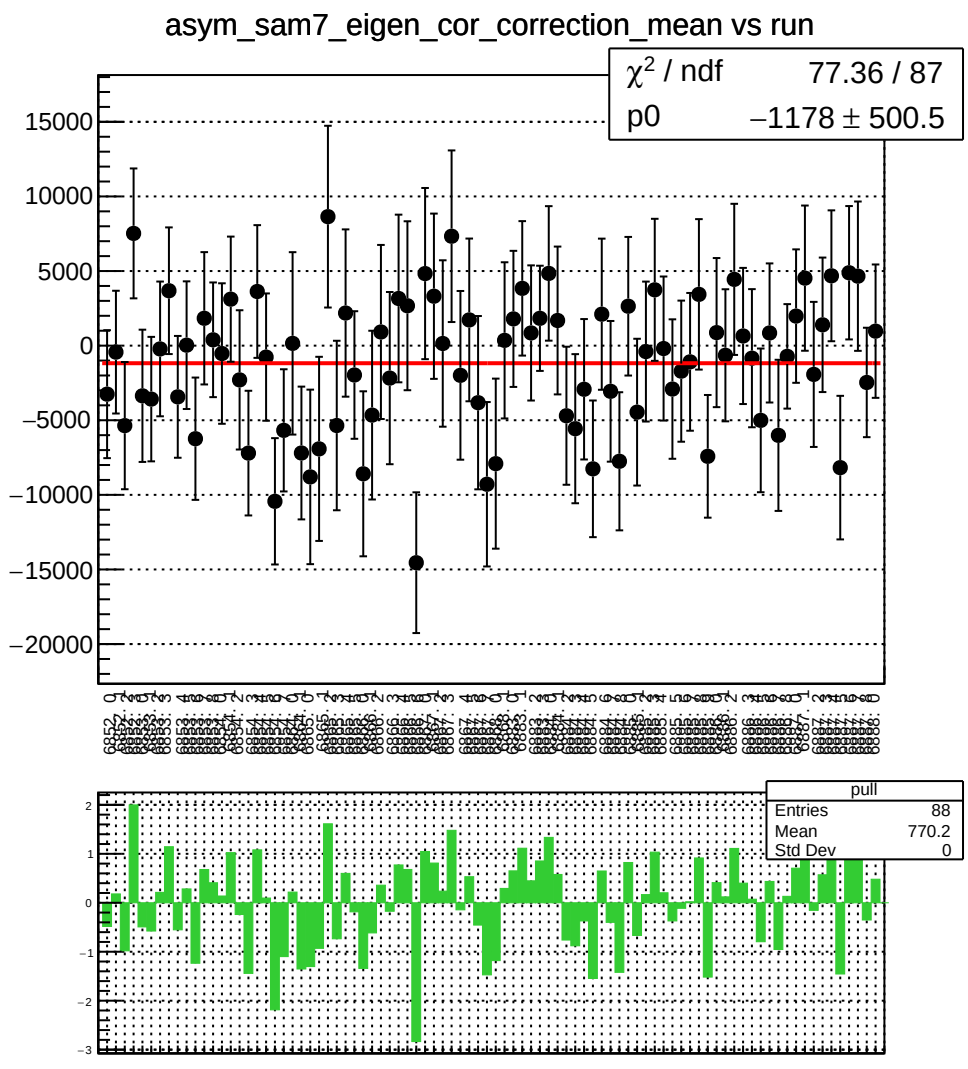

asym_sam7_cor_correction_mean vs run
χ² / ndf 77.36 / 87
p0 −1178 ± 500.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 770.2
Std Dev 0
2
1
0
−1
−2
−3

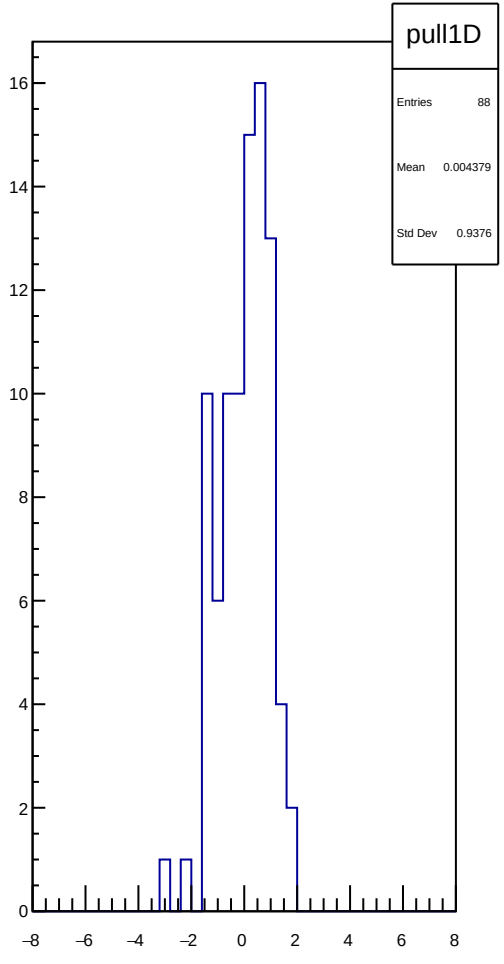

pull1D
Entries 88
Mean 0.004379
Std Dev 0.9376
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

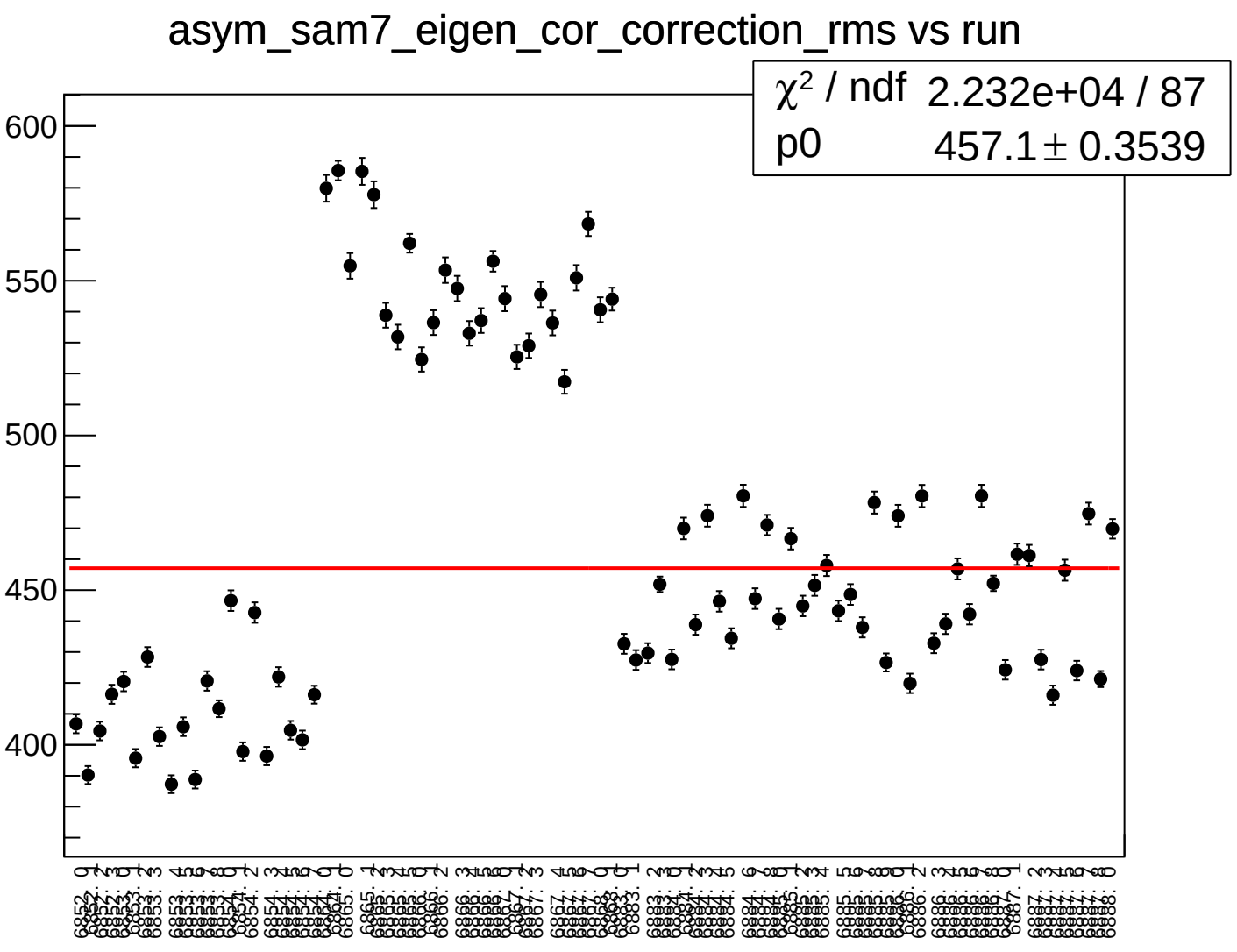

asym_sam7_cor_correction_rms vs run
χ² / ndf 2.232e+04 / 87
p0 457.1 ± 0.3539
600
550
500
450
400

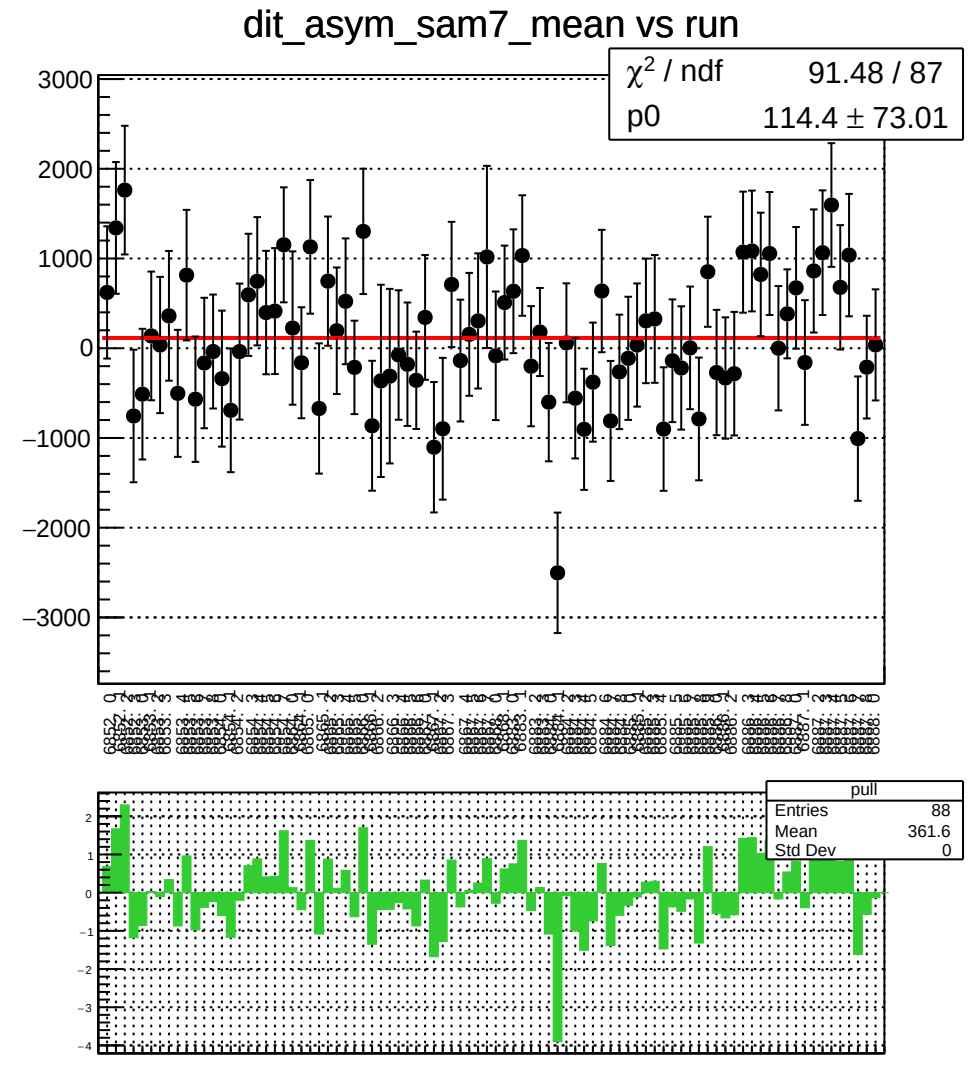

eigen_cor_asym_sam7_mean vs run
χ² / ndf 99.85 / 87
p0 56.32 ± 65.66
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 146.3
Std Dev 44.63
pull1D
Entries 88
Mean 0.01337
Std Dev 1.065
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

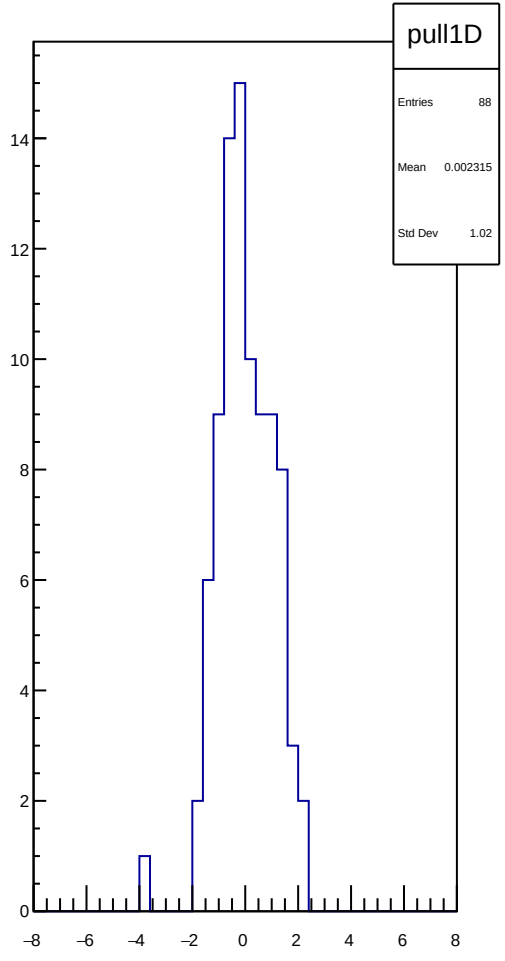

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 2456 / 87
p0 60.33 ± 0.04643
70
68
66
64
62
60
58
56

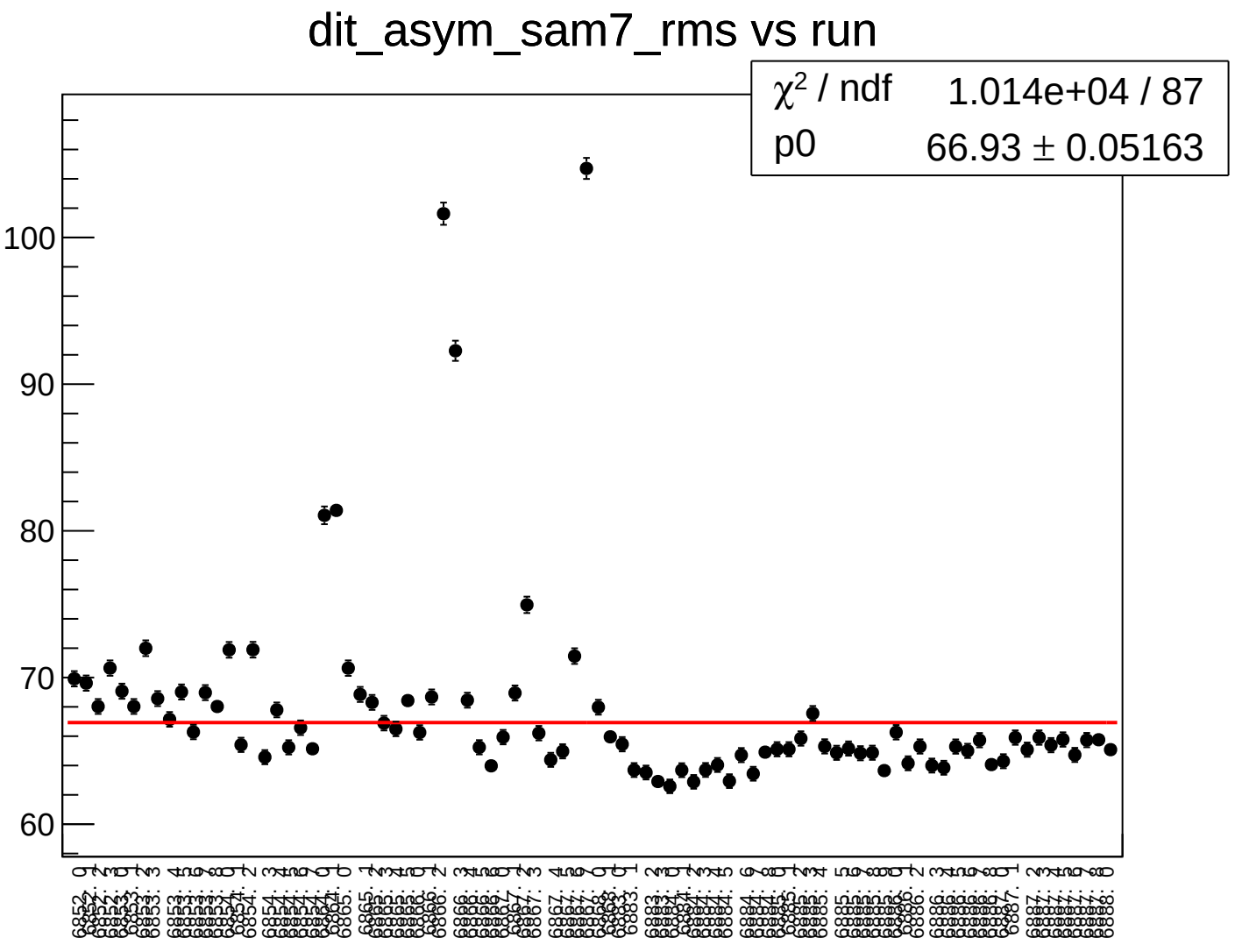

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 77.36 / 87
p0 −1178 ± 500.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 770.2
Std Dev 0
2
1
0
−1
−2
−3

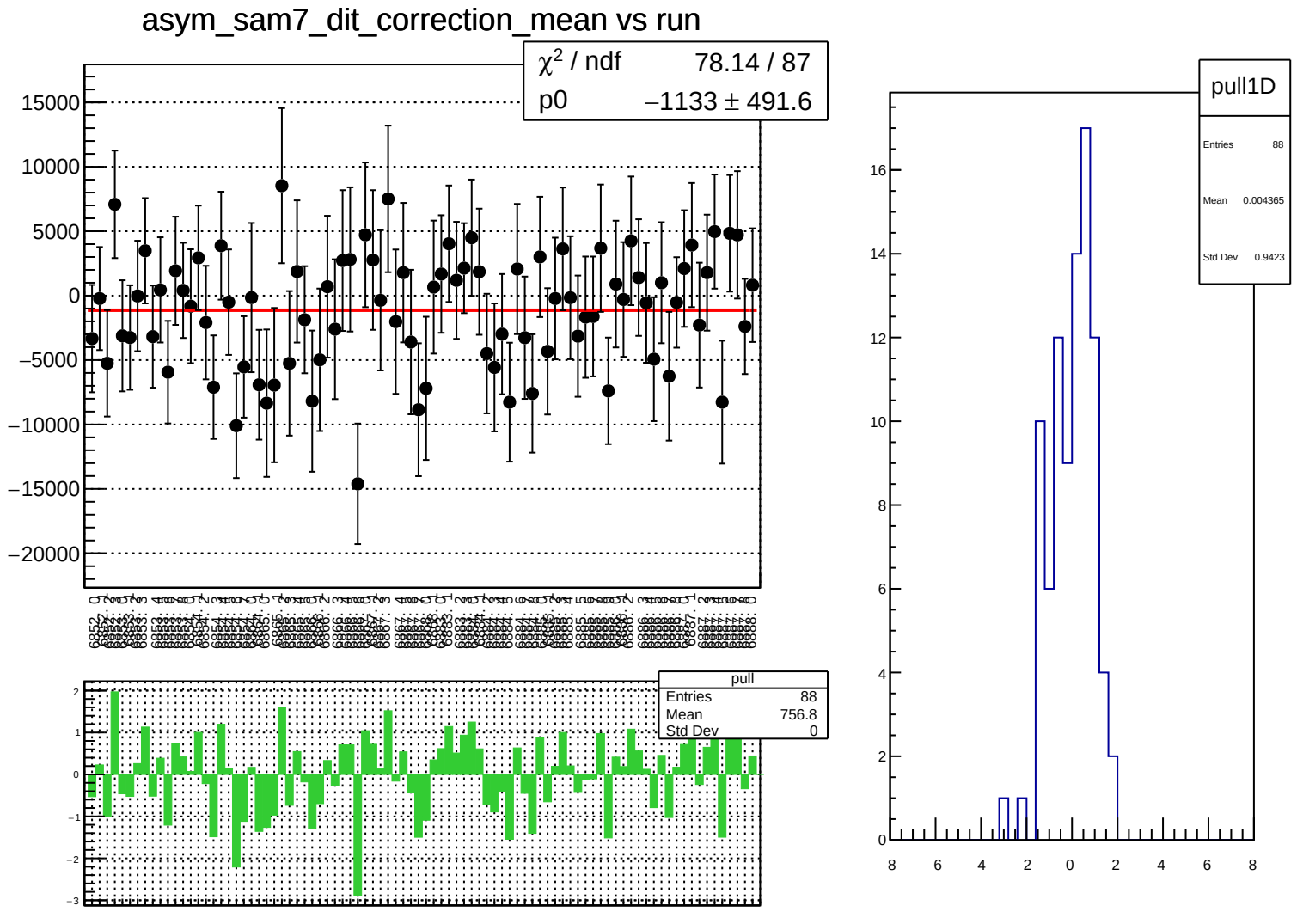

pull1D
Entries 88
Mean 0.004379
Std Dev 0.9376
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

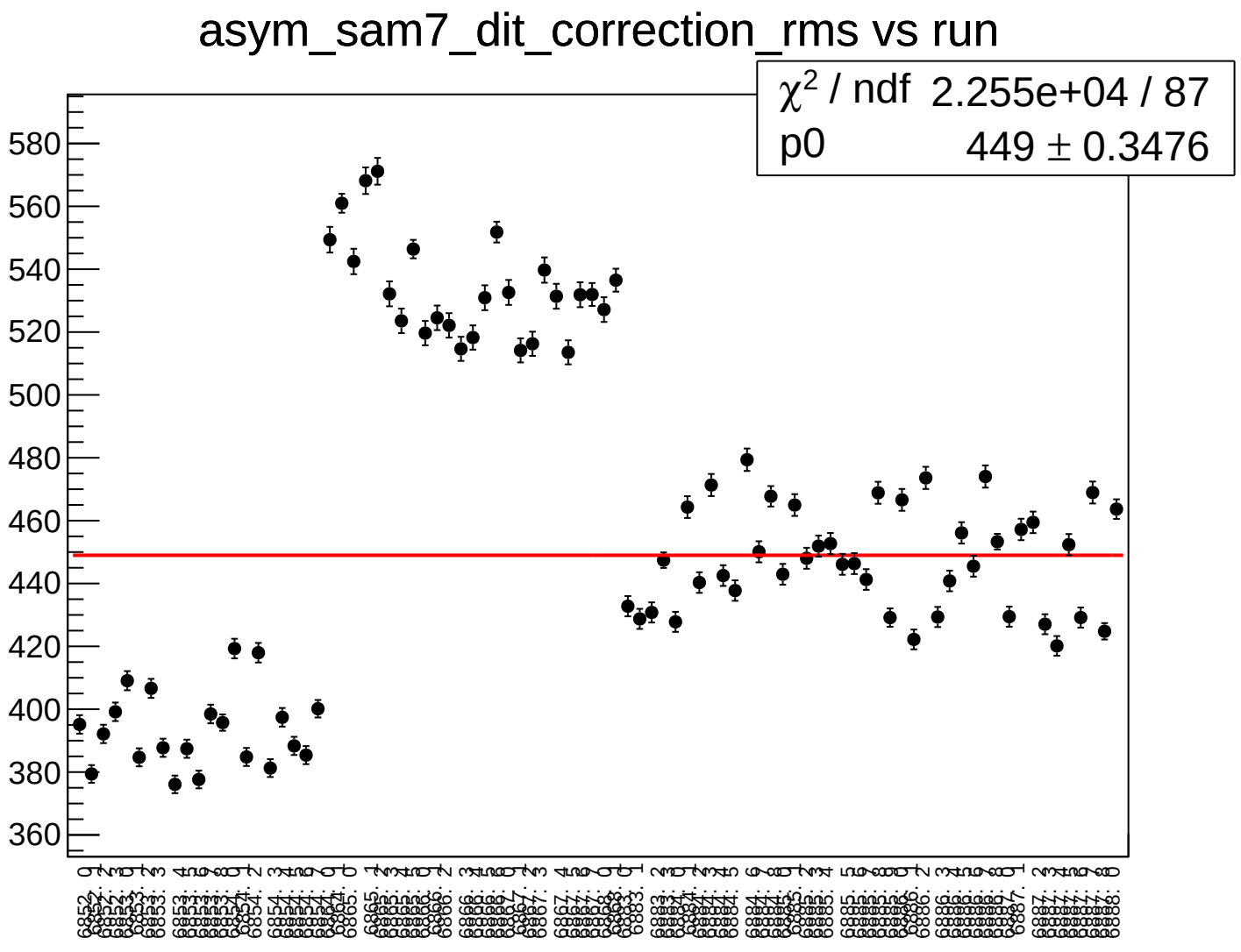

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 2.232e+04 / 87
p0 457.1 ± 0.3539
600
550
500
450
400

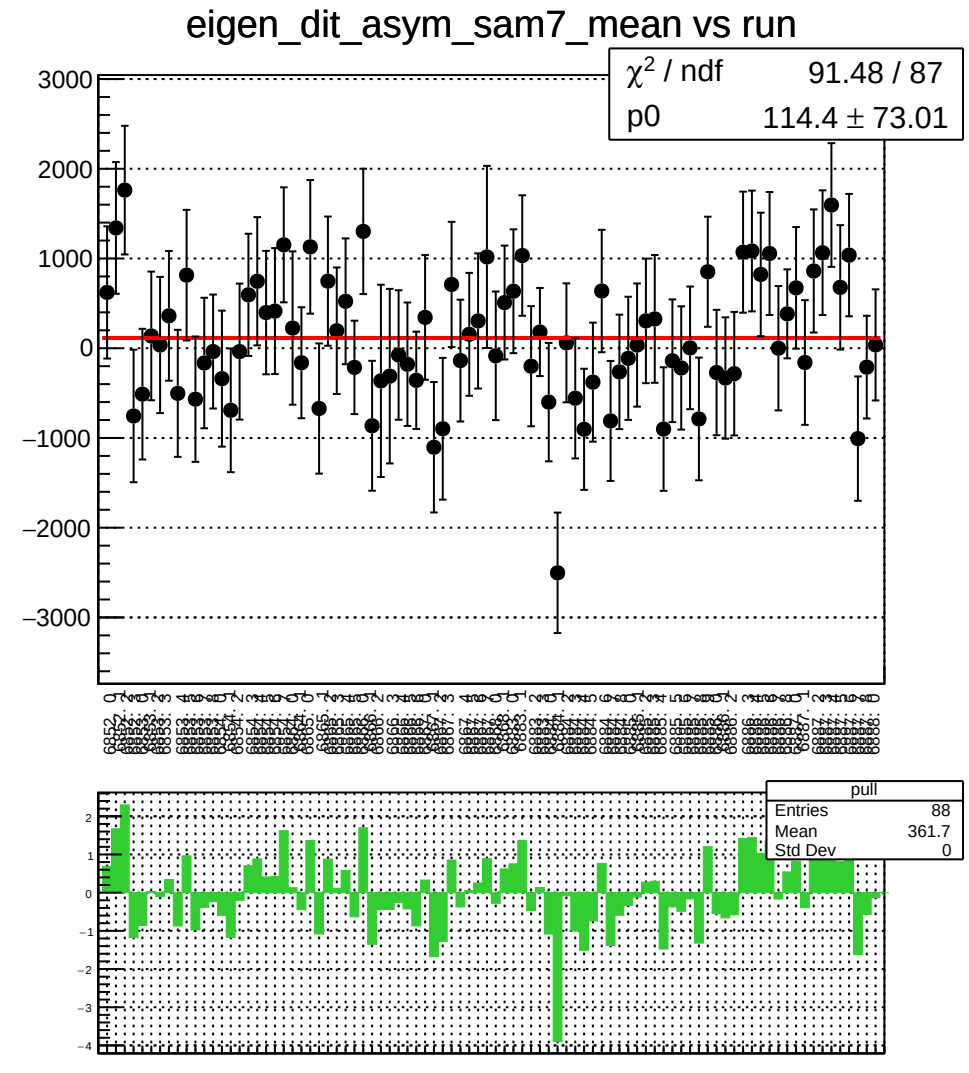

dit_asym_sam7_mean vs run
χ² / ndf 91.48 / 87
p0 114.4 ± 73.01
pull
Entries 88
Mean 361.6
Std Dev 0

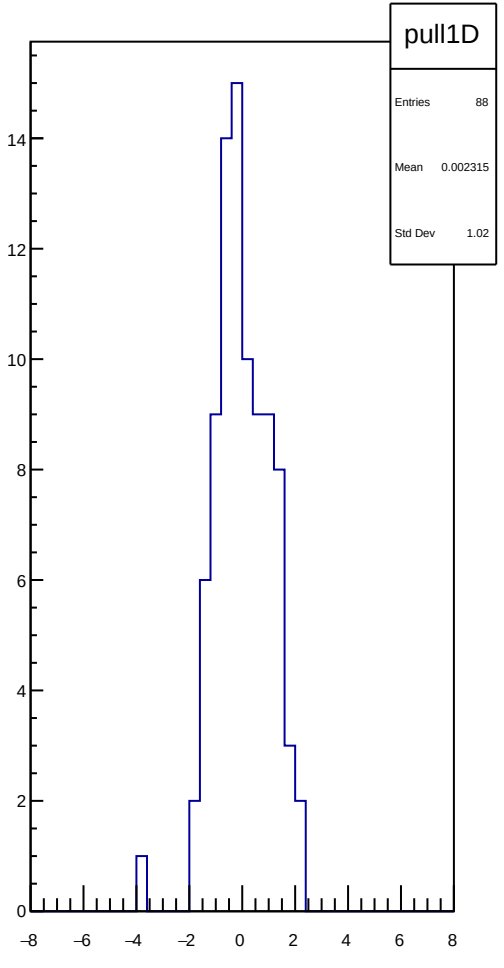

pull1D
Entries 88
Mean 0.002315
Std Dev 1.02

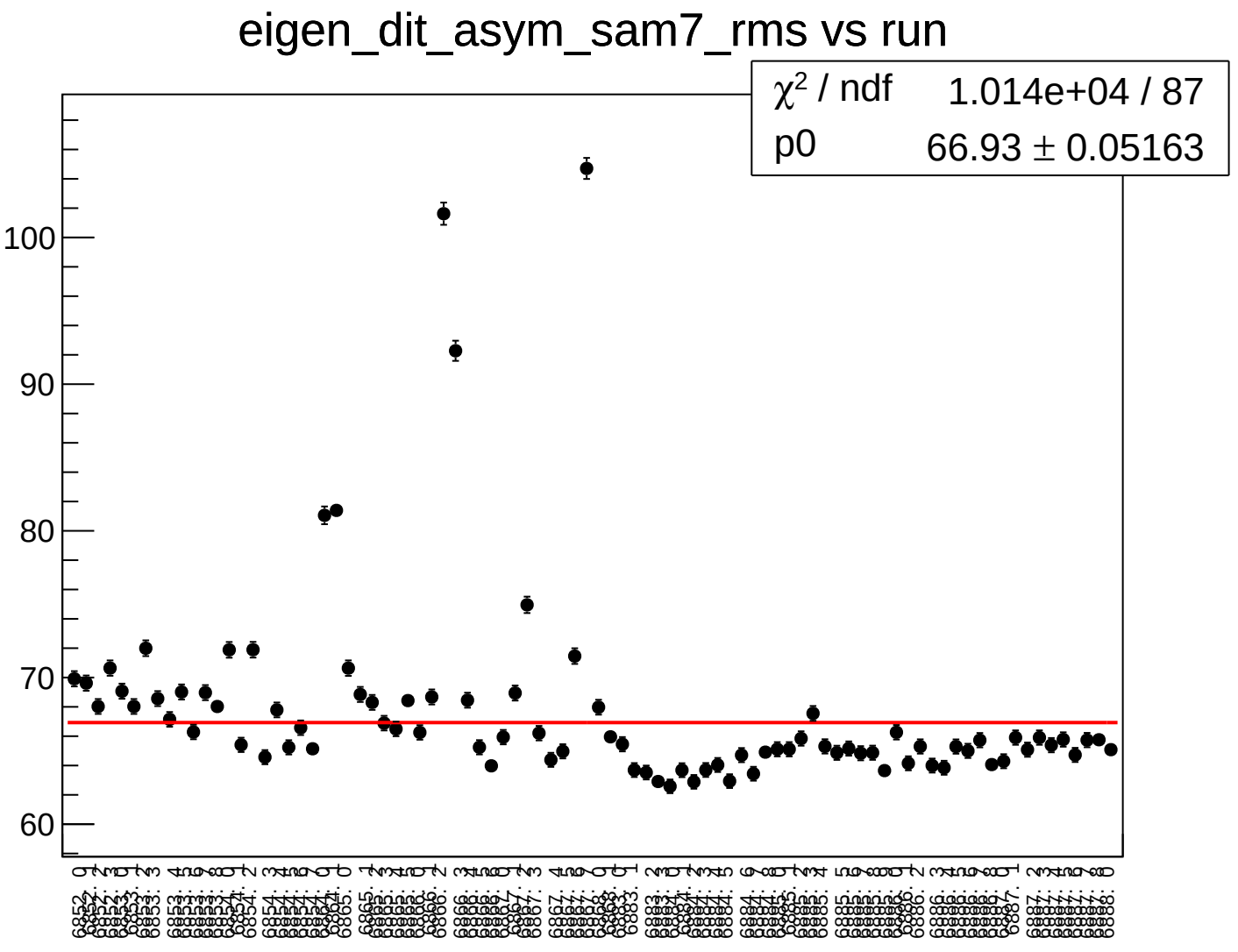

dit_asym_sam7_rms vs run
χ² / ndf 1.014e+04 / 87
p0 66.93 ± 0.05163
100
90
80
70
60

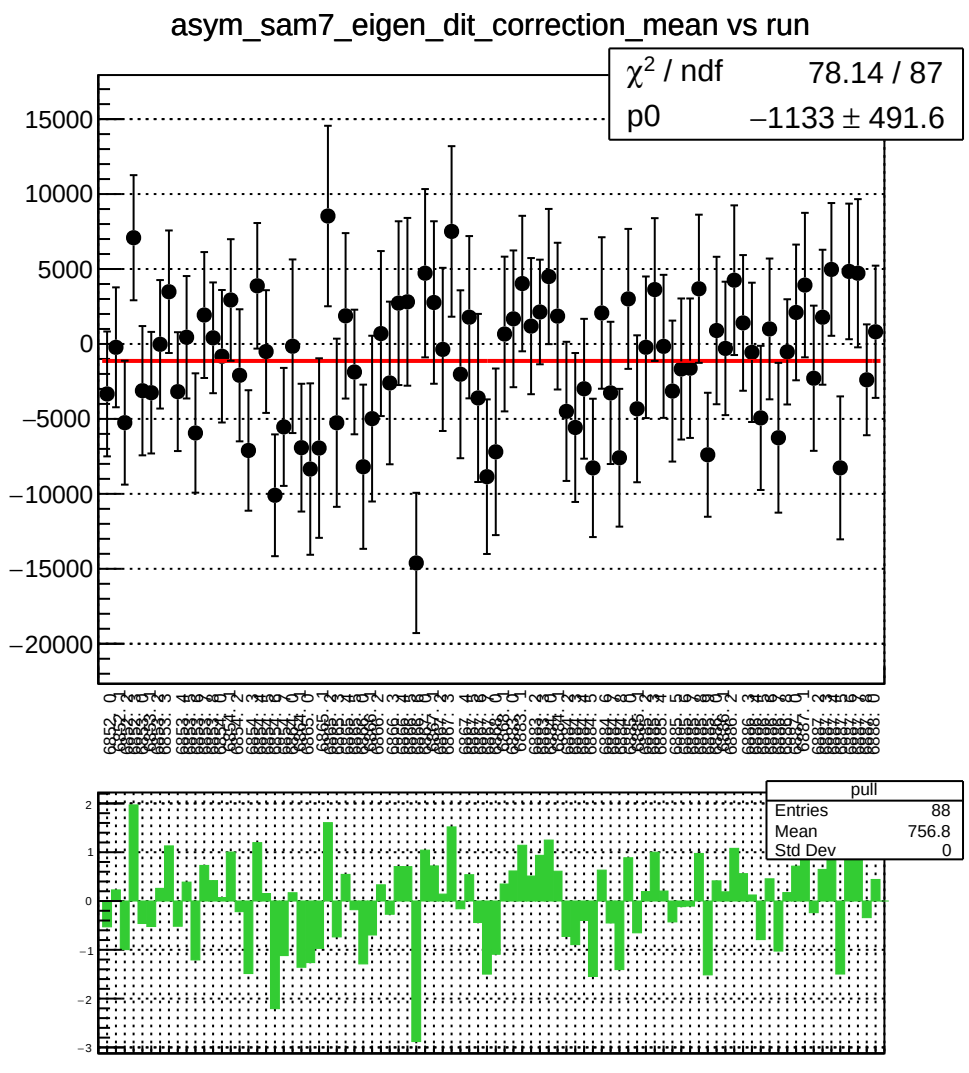

asym_sam7_dit_correction_mean vs run
χ² / ndf 78.14 / 87
p0 −1133 ± 491.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 756.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.004365
Std Dev 0.9423
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

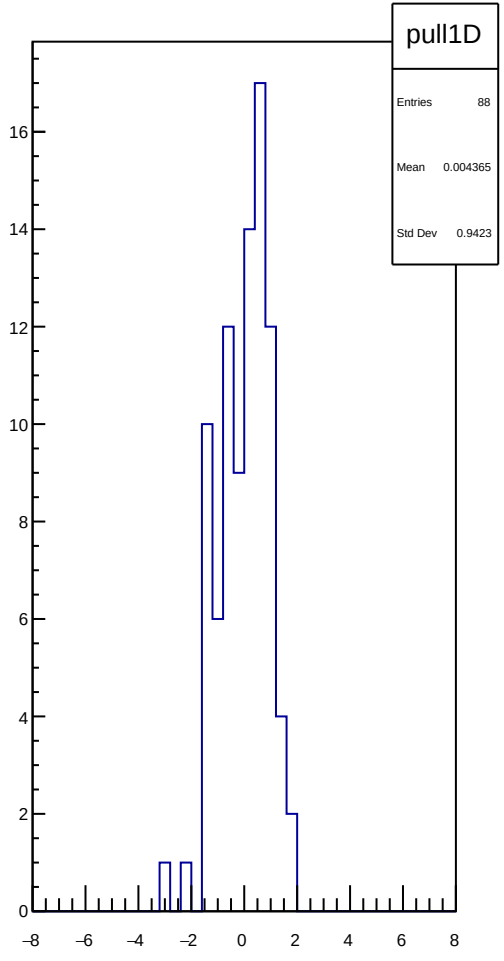

asym_sam7_dit_correction_rms vs run
χ² / ndf 2.255e+04 / 87
p0 449 ± 0.3476
580
560
540
520
500
480
460
440
420
400
380
360

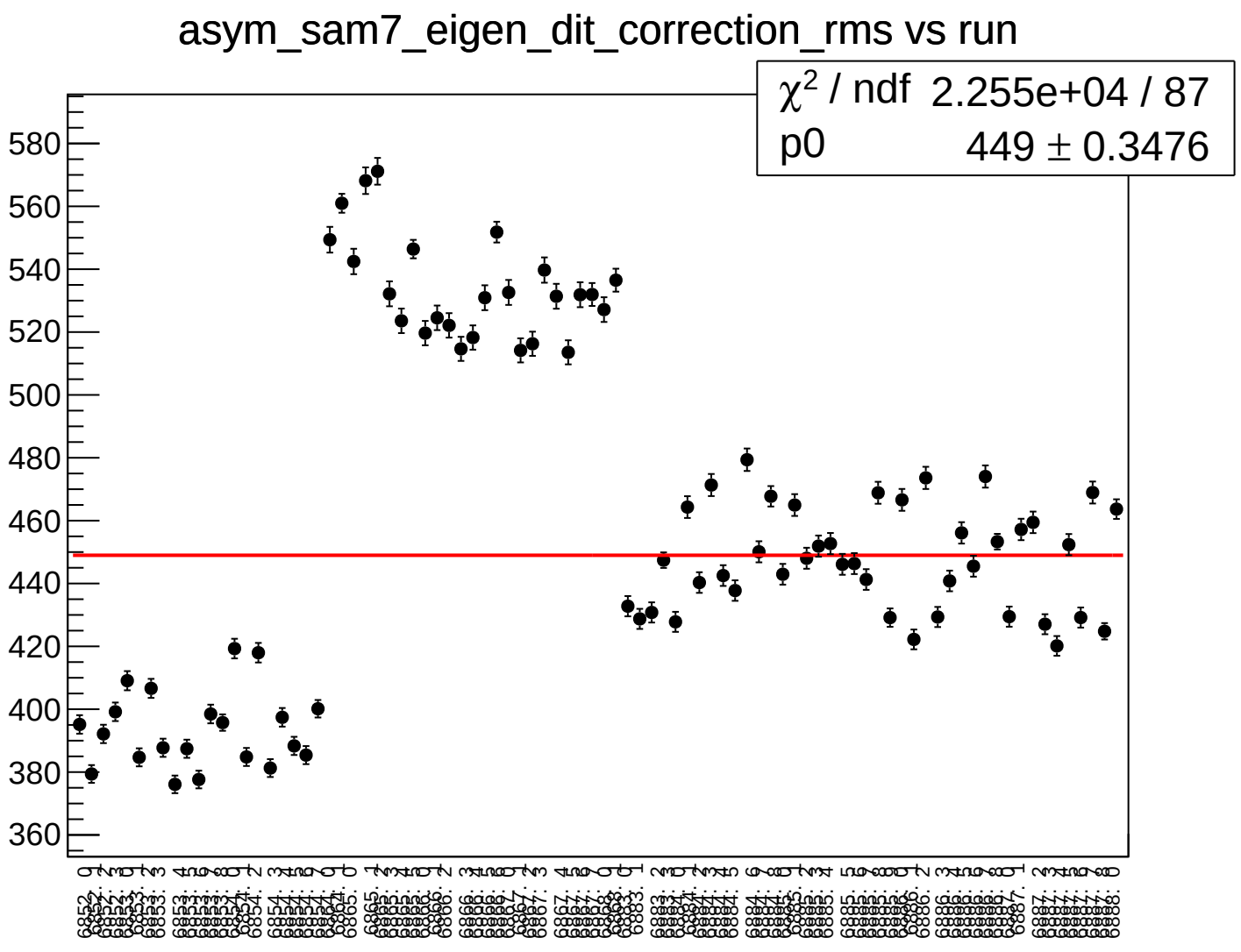

eigen_dit_asym_sam7_mean vs run
χ^2 / ndf 91.48 / 87
p0 114.4 ± 73.01
pull
Entries 88
Mean 361.7
Std Dev 0

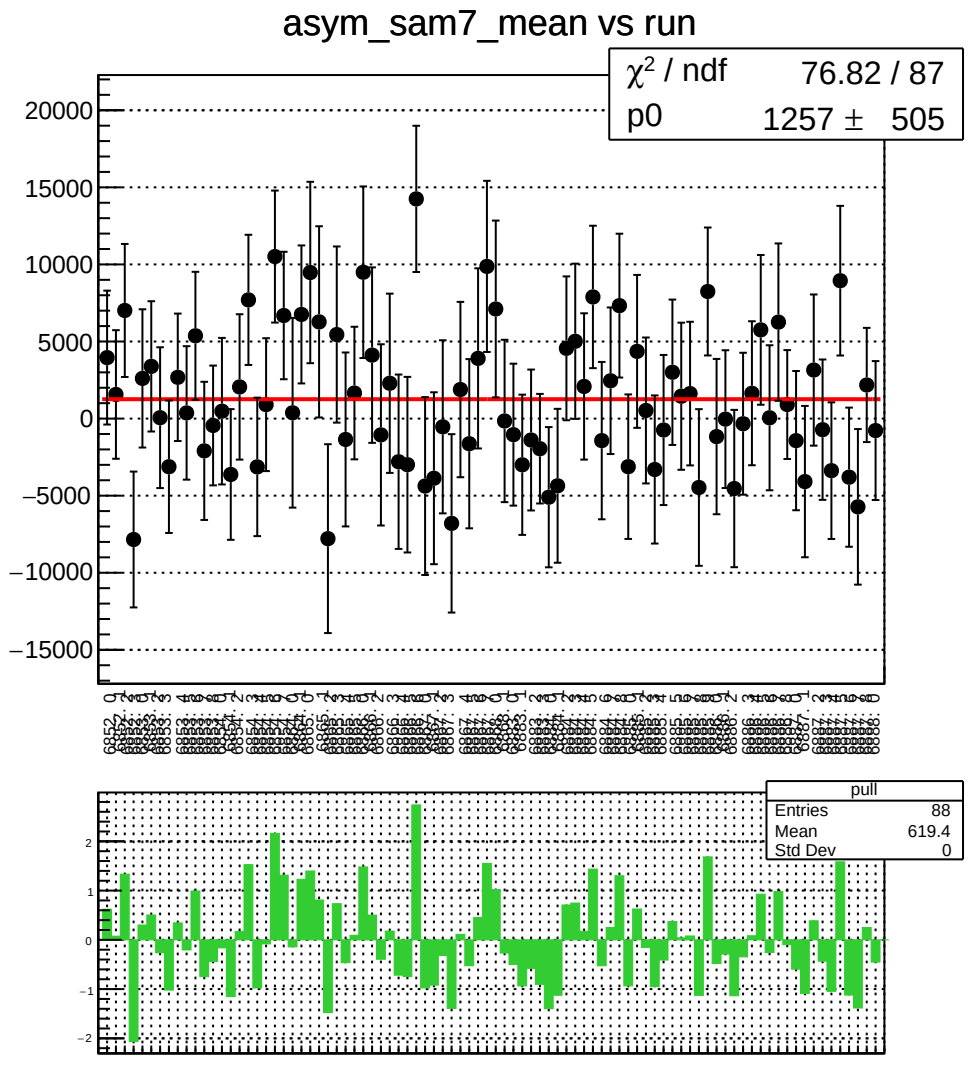

pull1D
Entries 88
Mean 0.002315
Std Dev 1.02

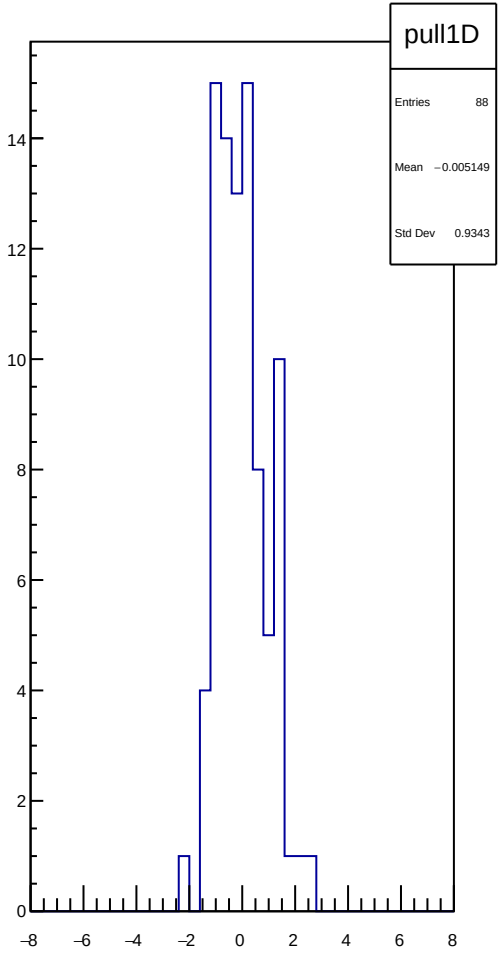

eigen_dit_asym_sam7_rms vs run
χ² / ndf 1.014e+04 / 87
p0 66.93 ± 0.05163
100
90
80
70
60

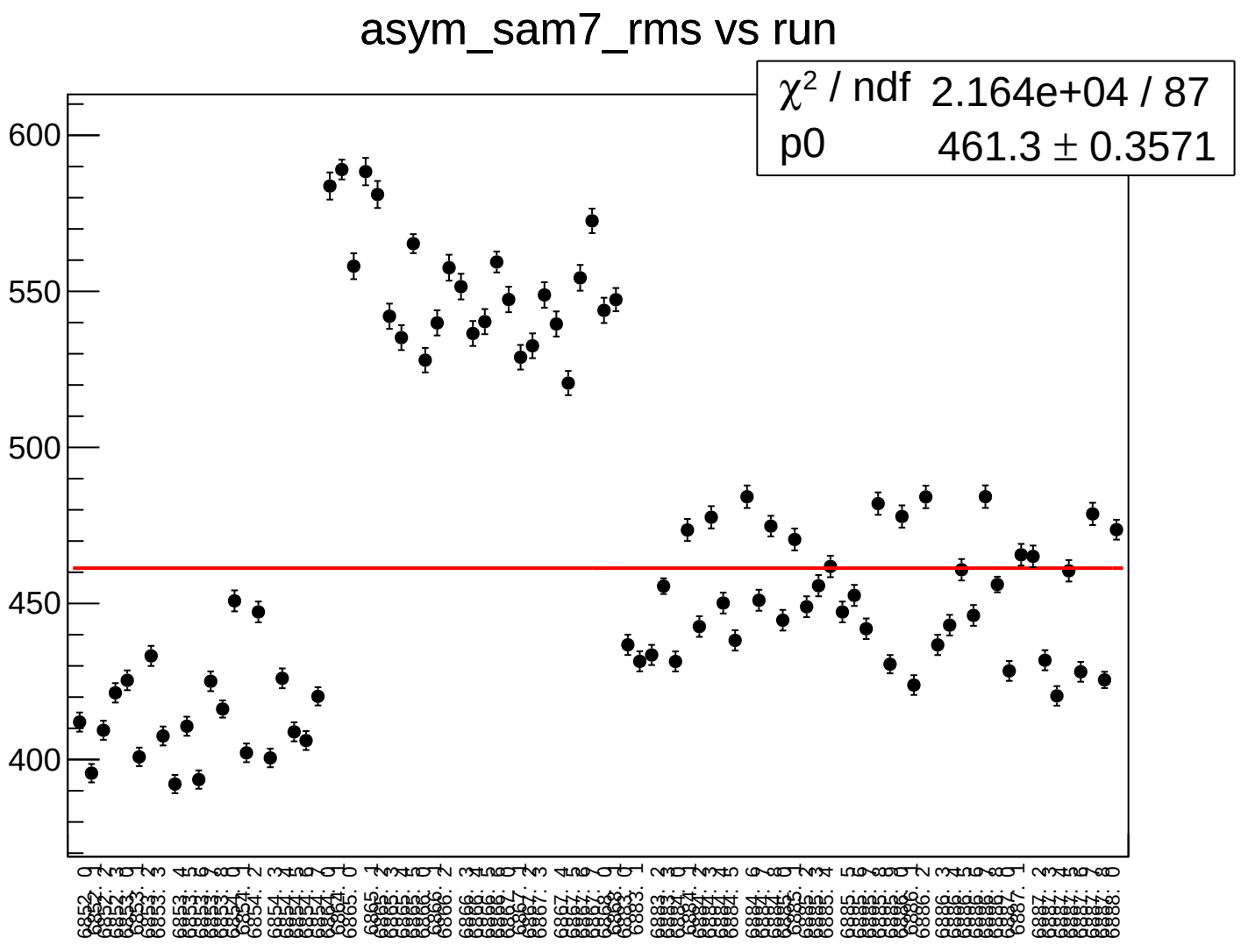

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 78.14 / 87
p0 −1133 ± 491.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 756.8
Std Dev 0
2
1
0
−1
−2
−3

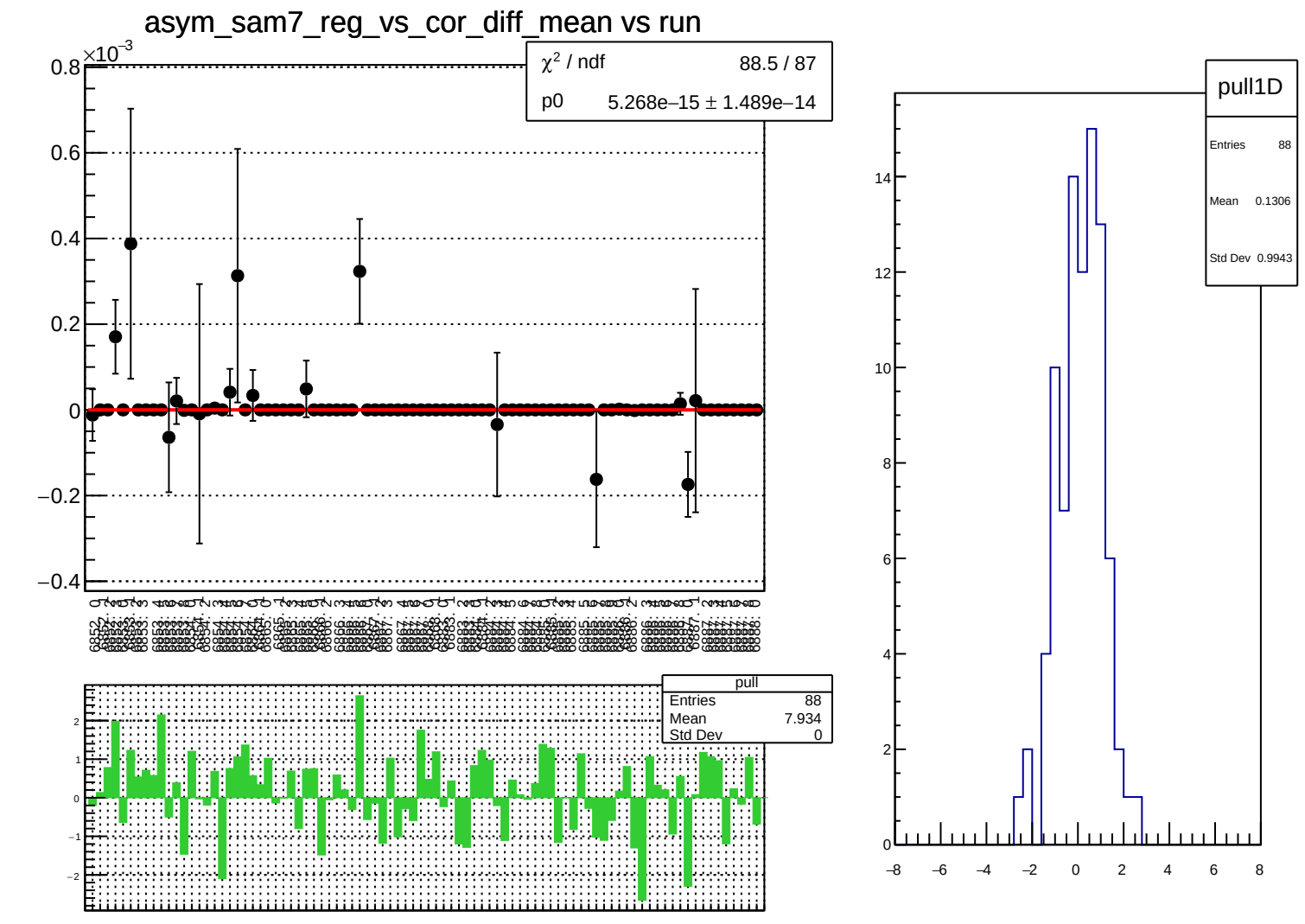

pull1D
Entries 88
Mean 0.004365
Std Dev 0.9423
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

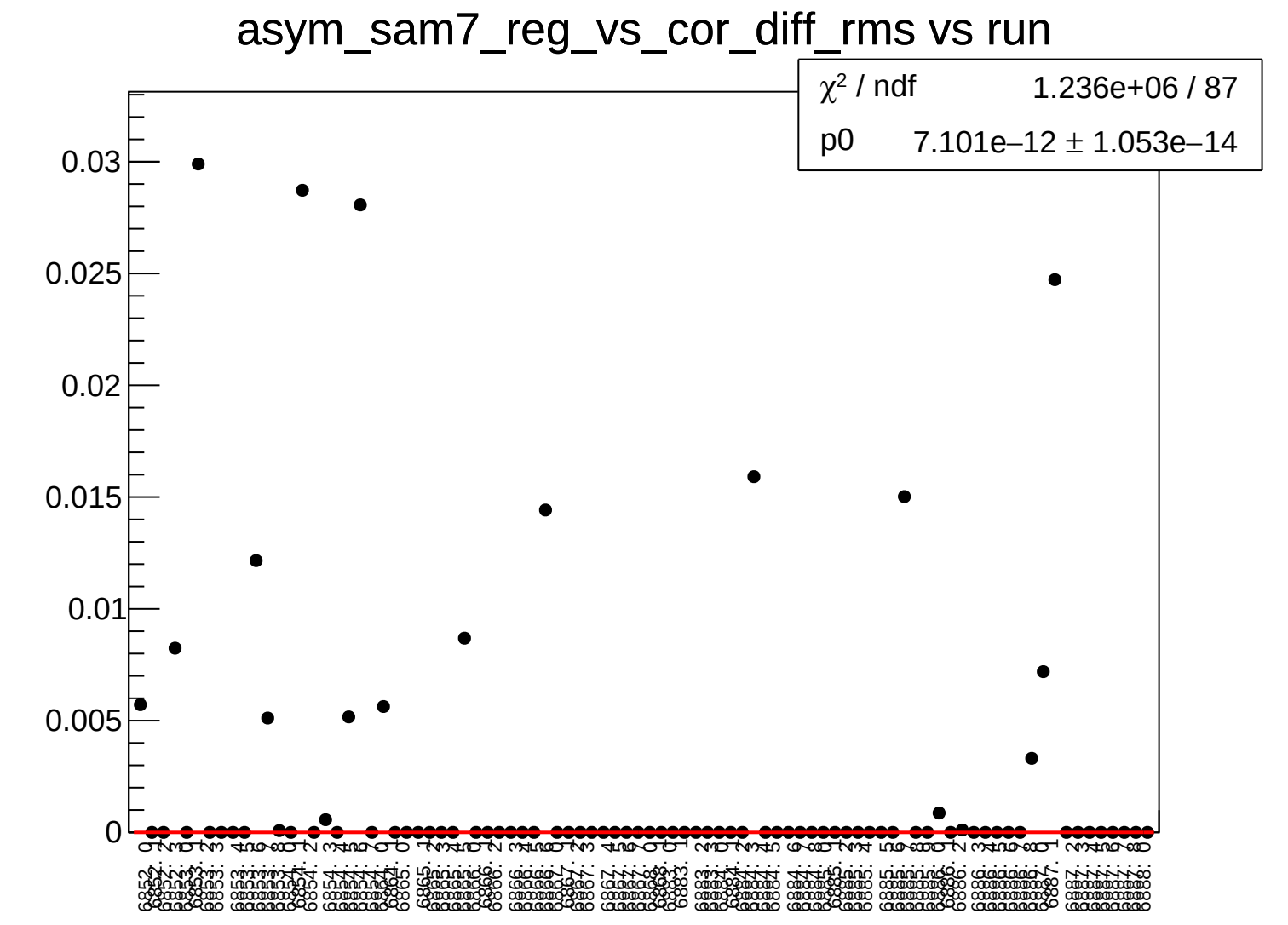

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 2.255e+04 / 87
p0 449 ± 0.3476
580
560
540
520
500
480
460
440
420
400
380
360

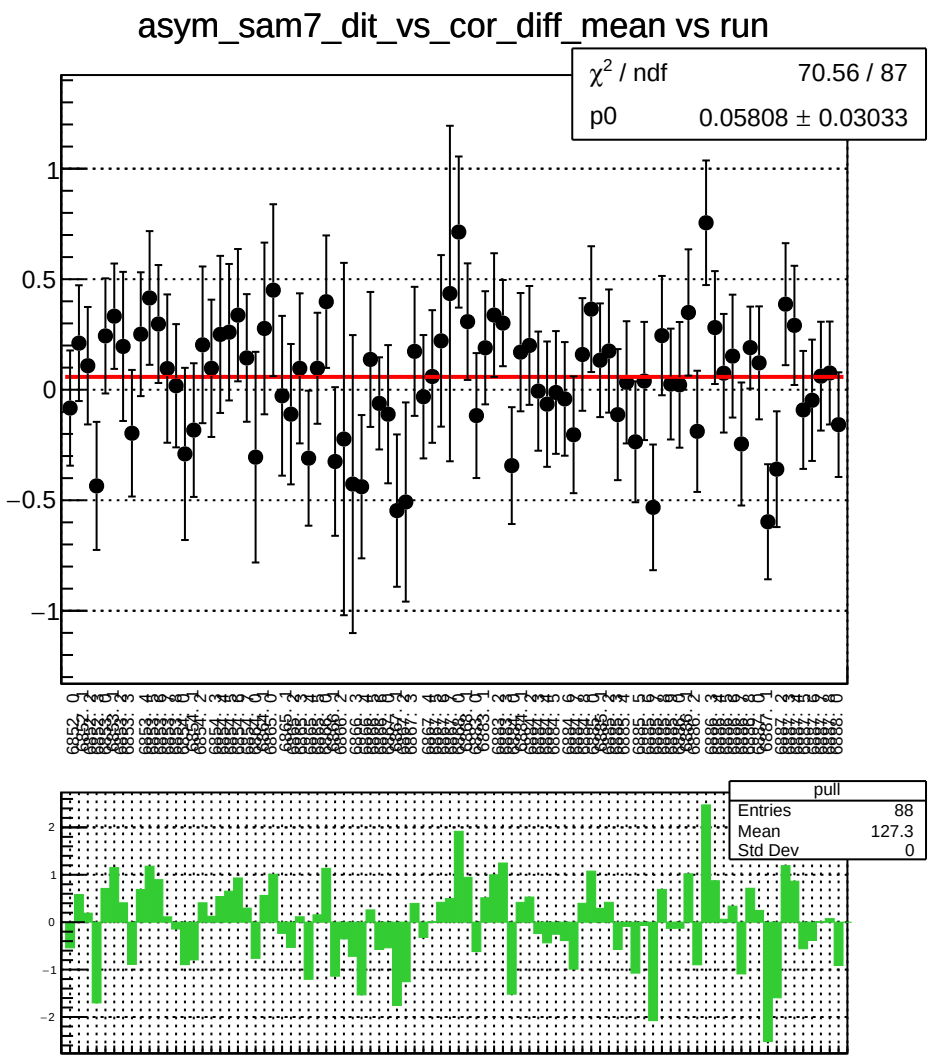

asym_sam7_mean vs run
χ² / ndf 76.82 / 87
p0 1257 ± 505
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 619.4
Std Dev 0
2
1
0
−1
−2

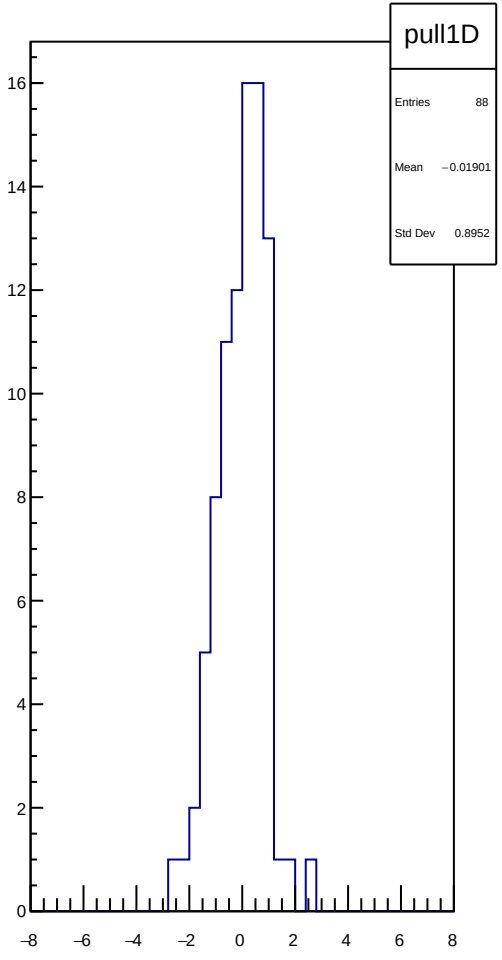

pull1D
Entries 88
Mean −0.005149
Std Dev 0.9343
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

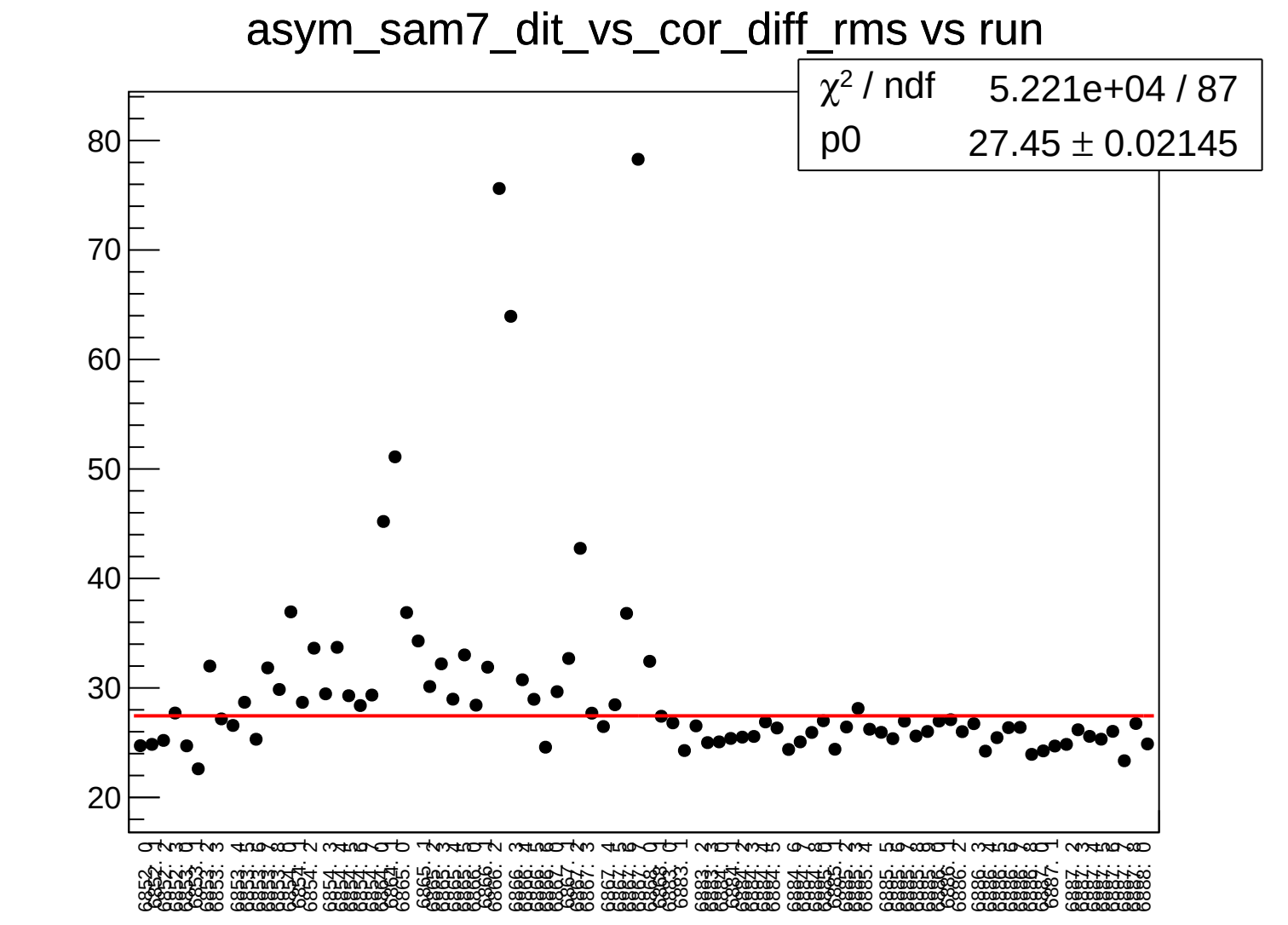

asym_sam7_rms vs run
χ² / ndf 2.164e+04 / 87
p0 461.3 ± 0.3571
600
550
500
450
400

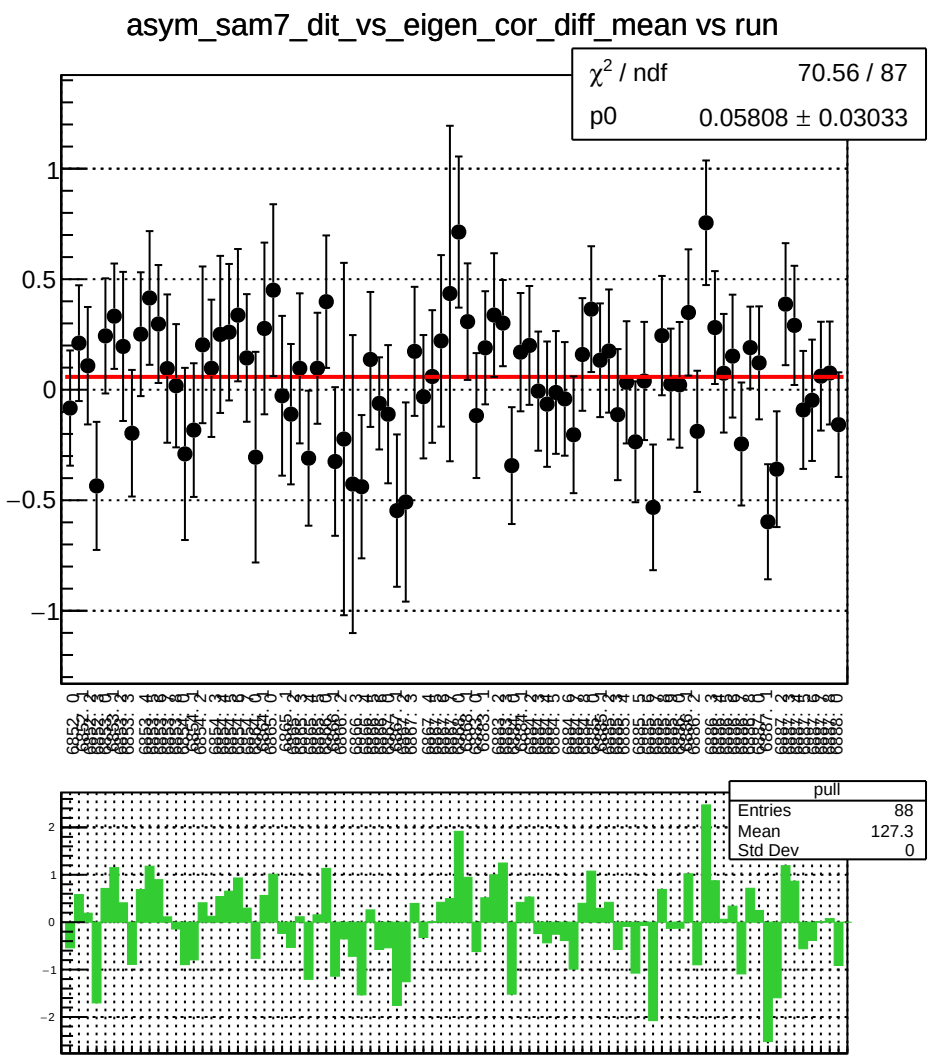

asym_sam7_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 88.5 / 87
p0 5.268e−15 ± 1.489e−14
pull
Entries 88
Mean 7.934
Std Dev 0
pull1D
Entries 88
Mean 0.1306
Std Dev 0.9943

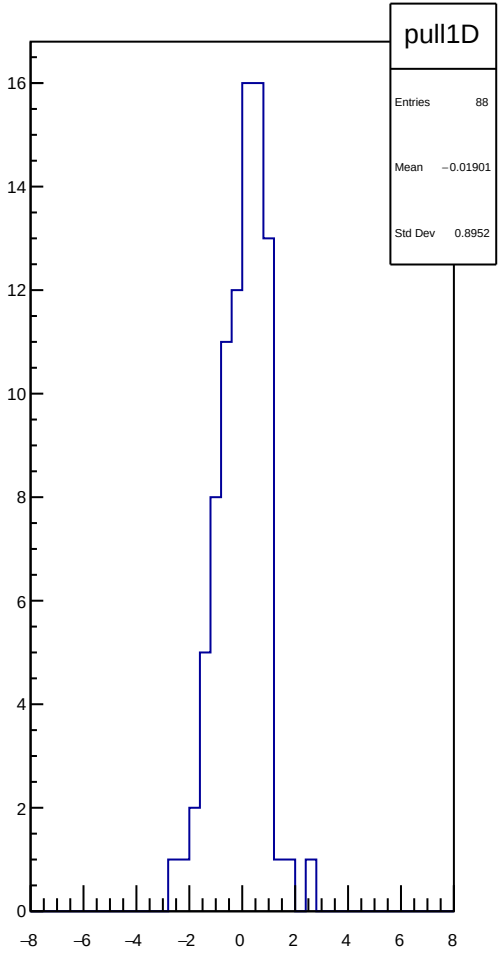

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.236e+06 / 87
p0 7.101e−12 ± 1.053e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

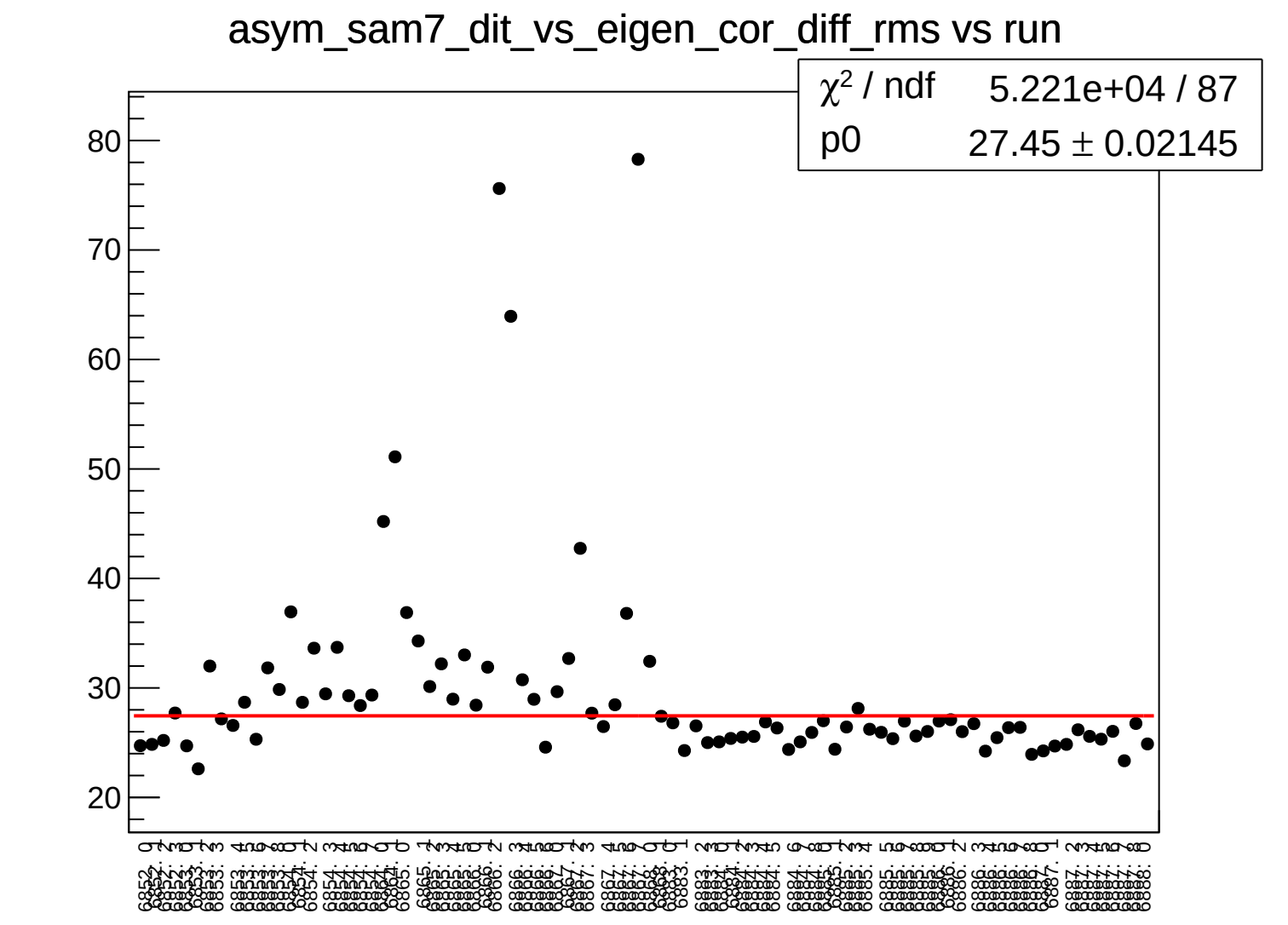

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 70.56 / 87
p0 0.05808 ± 0.03033
pull
Entries 88
Mean 127.3
Std Dev 0

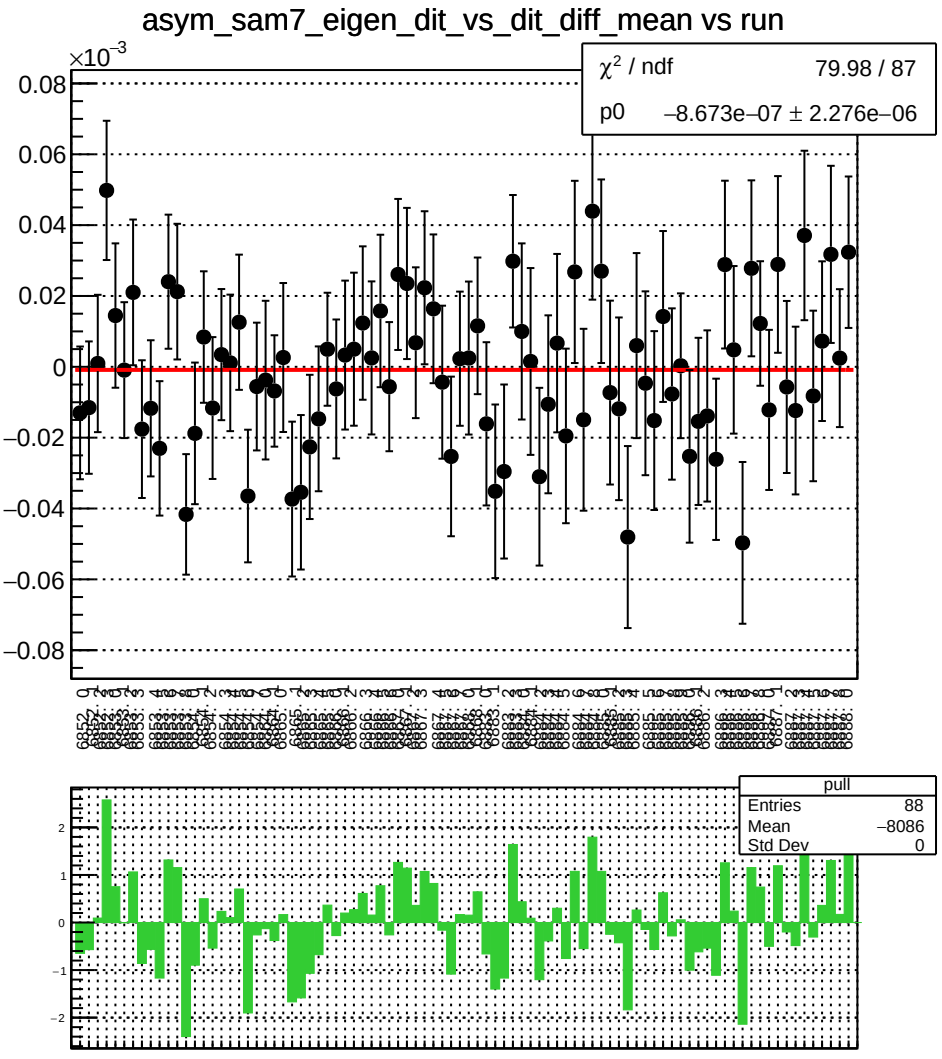

pull1D
Entries 88
Mean −0.01901
Std Dev 0.8952

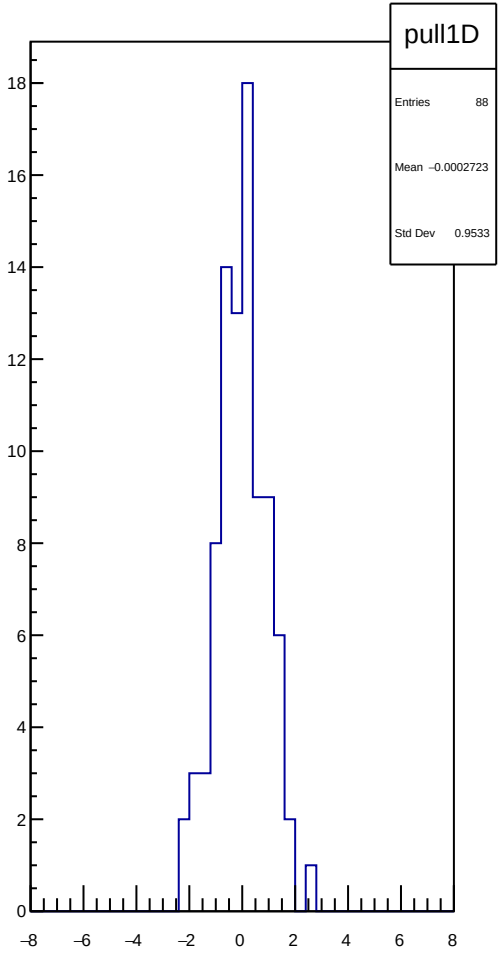

asym_sam7_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.221e+04 / 87
p0 27.45 ± 0.02145
80
70
60
50
40
30
20

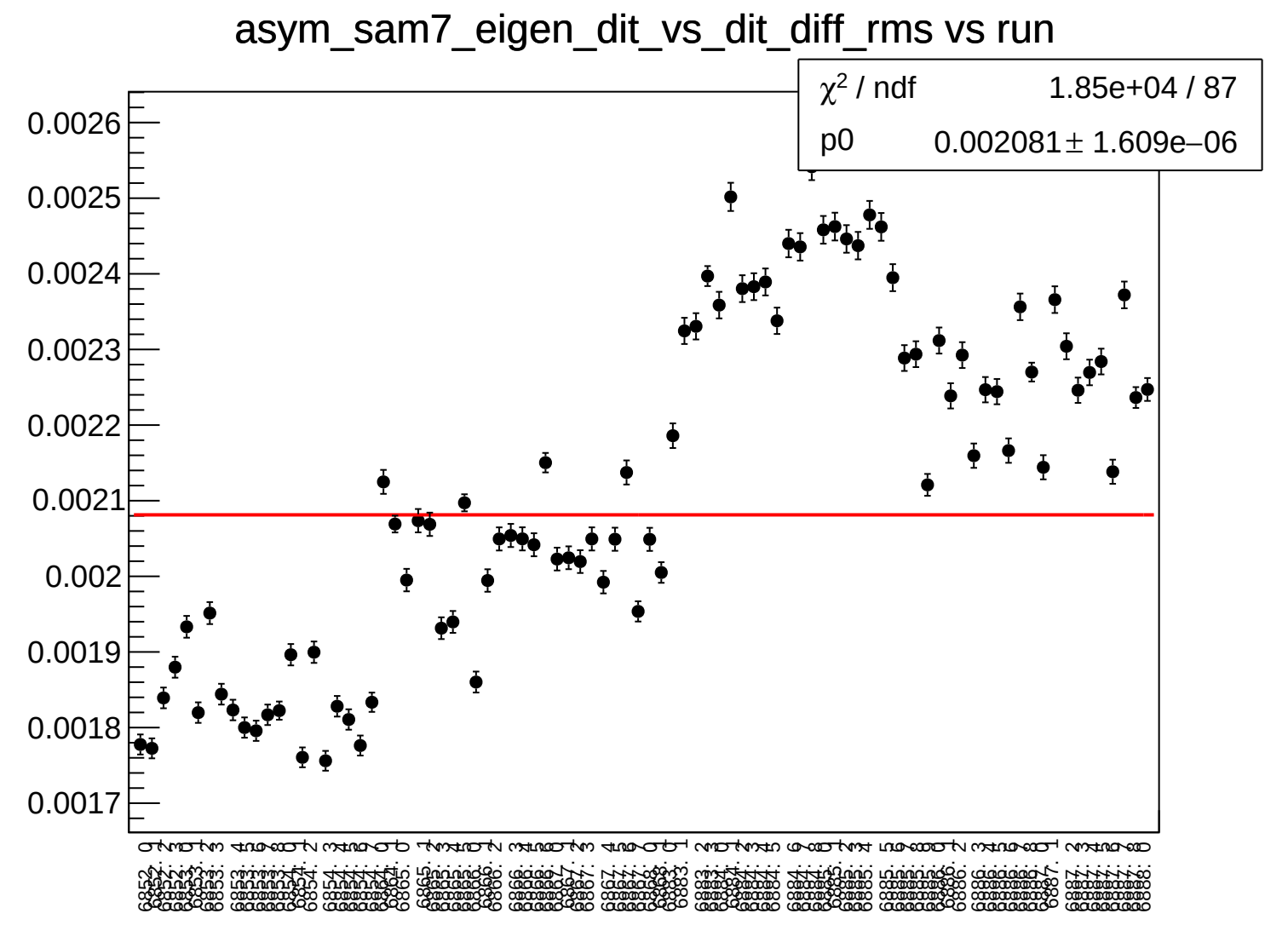

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.56 / 87
p0 0.05808 ± 0.03033
pull
Entries 88
Mean 127.3
Std Dev 0

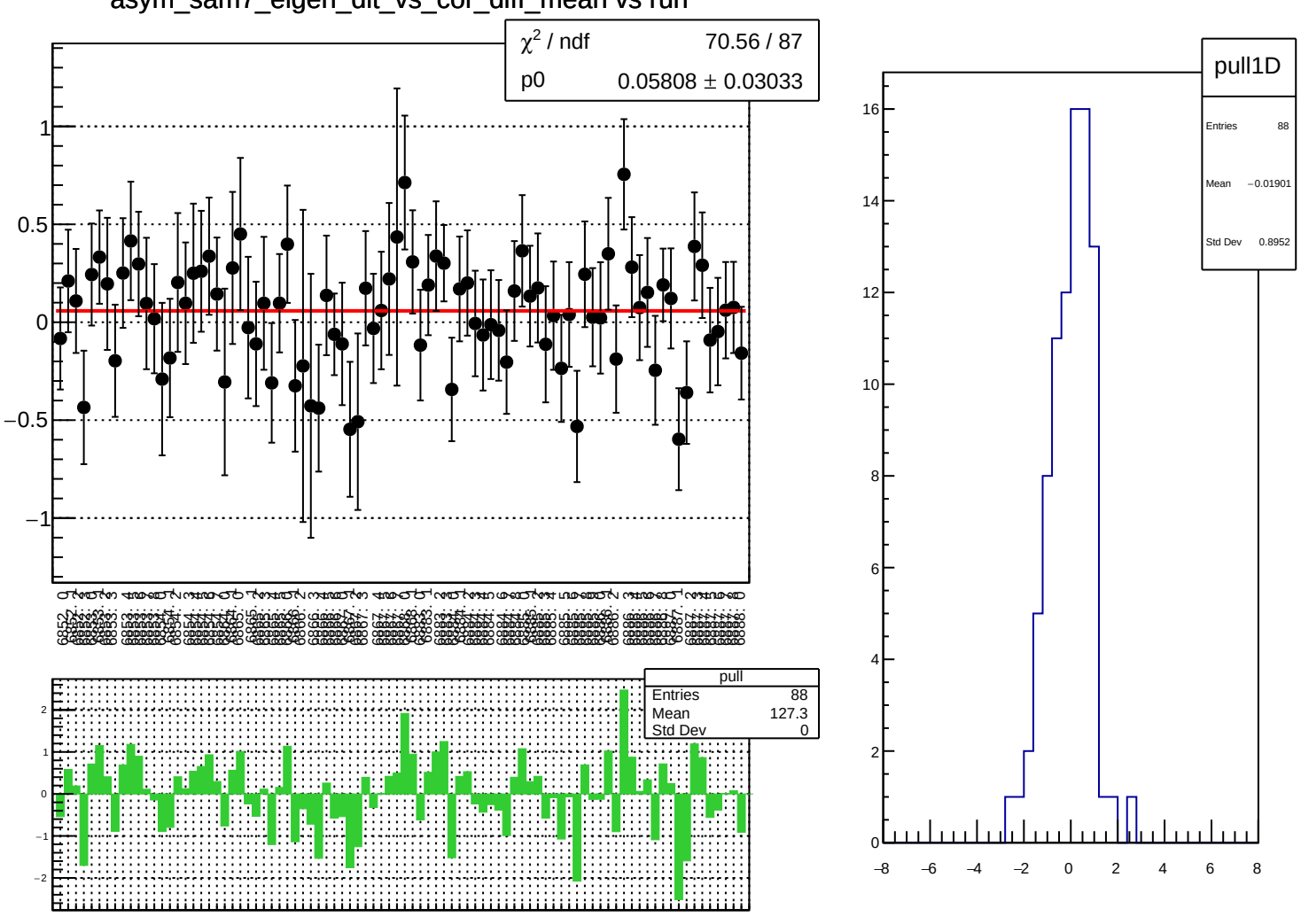

pull1D
Entries 88
Mean −0.01901
Std Dev 0.8952

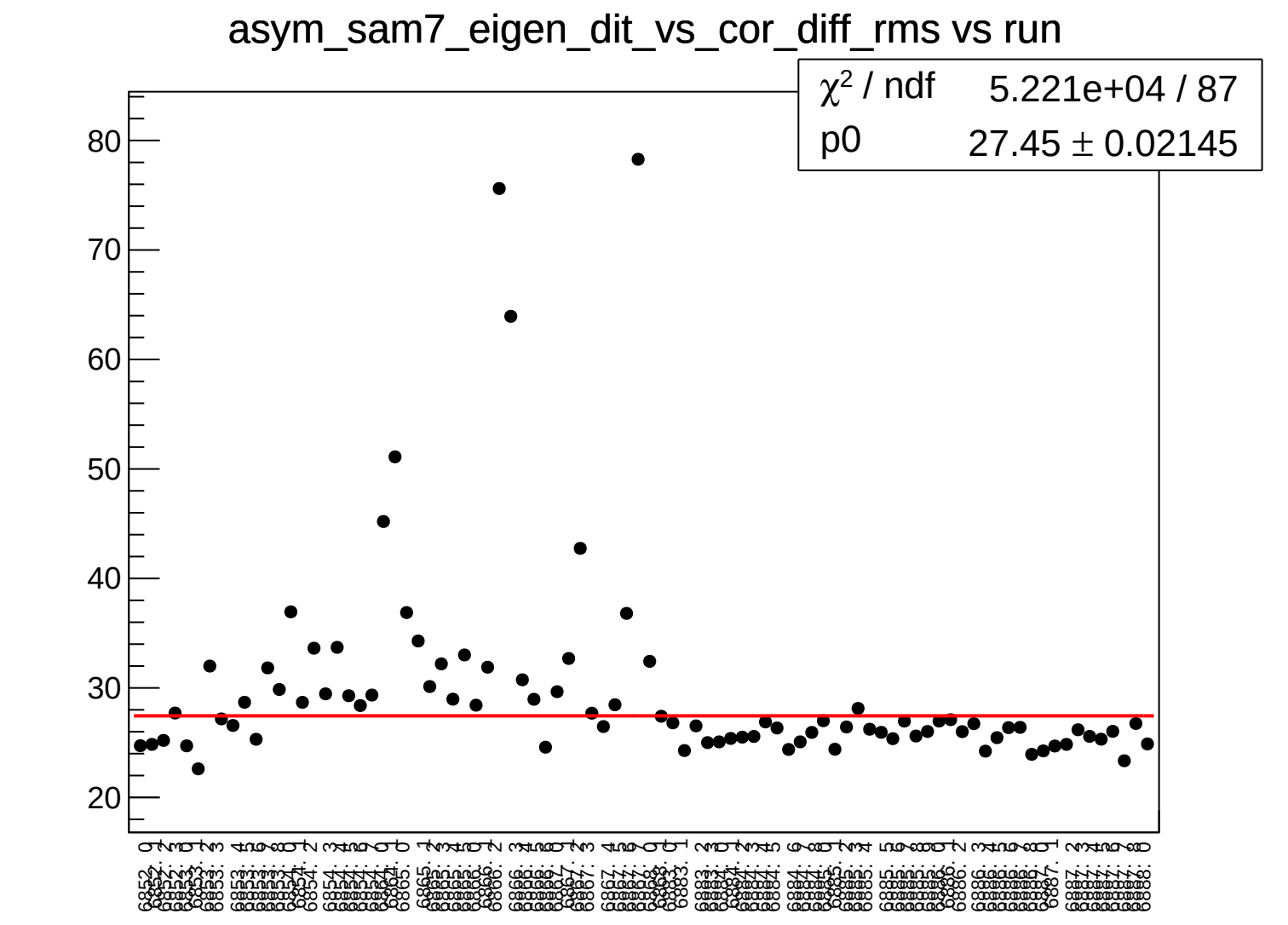

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.221e+04 / 87
p0 27.45 ± 0.02145
80
70
60
50
40
30
20

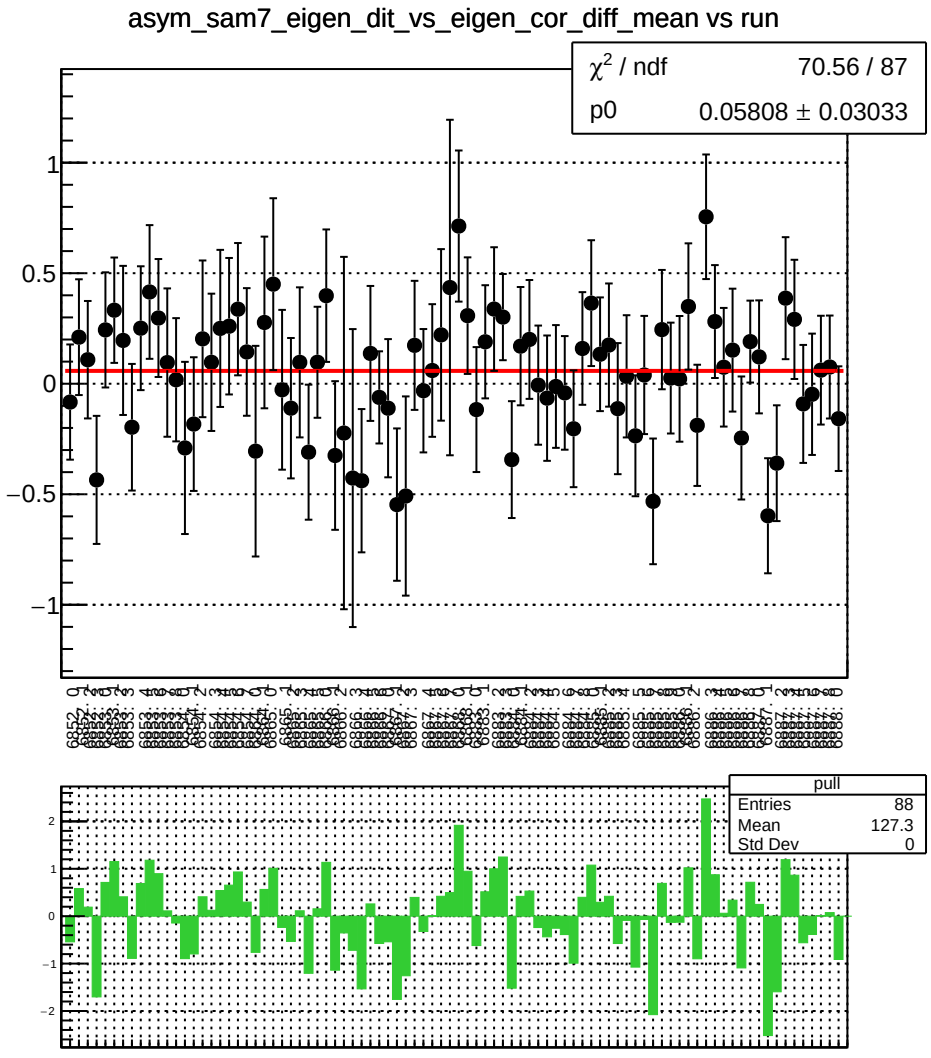

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.98 / 87
p0 −8.673e−07 ± 2.276e−06
pull
Entries 88
Mean −8086
Std Dev 0

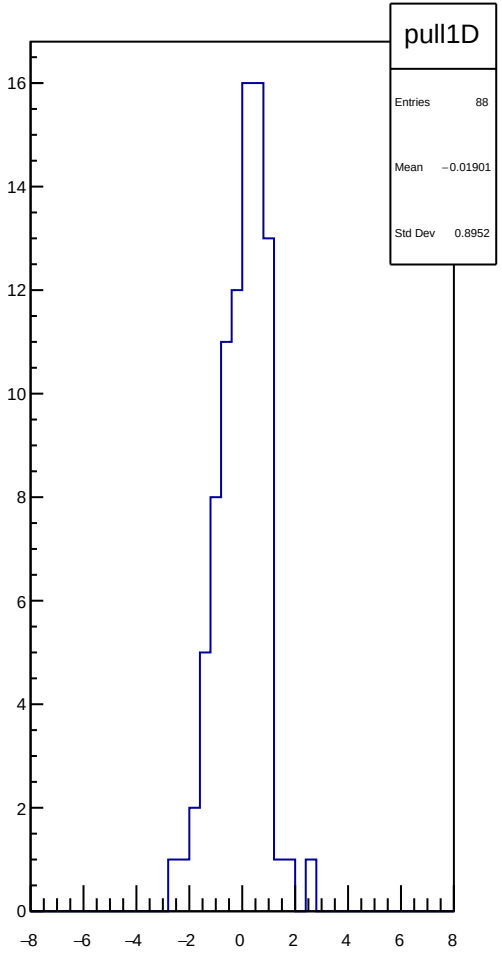

pull1D
Entries 88
Mean −0.0002723
Std Dev 0.9533

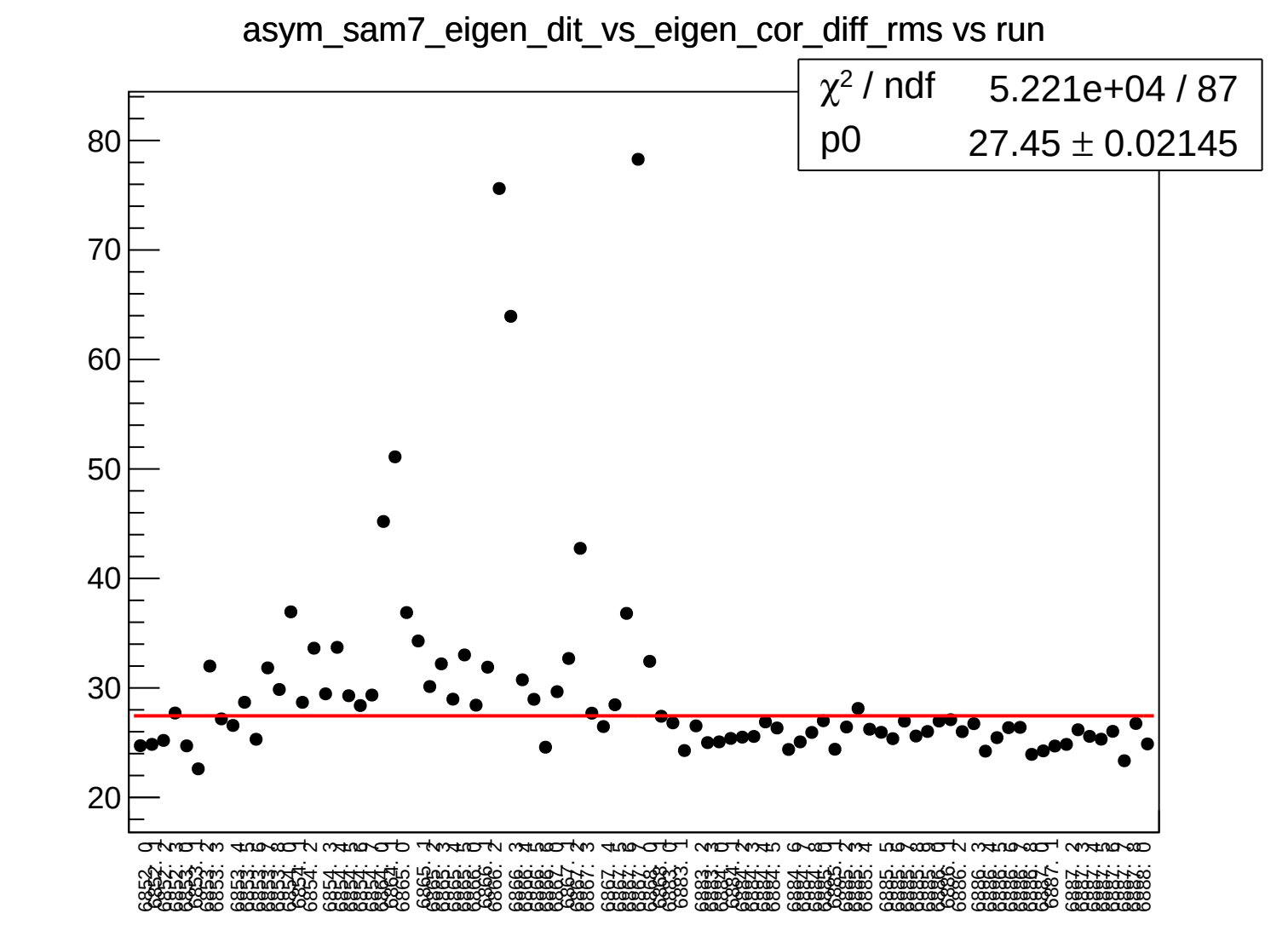

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.85e+04 / 87
p0 0.002081 ± 1.609e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

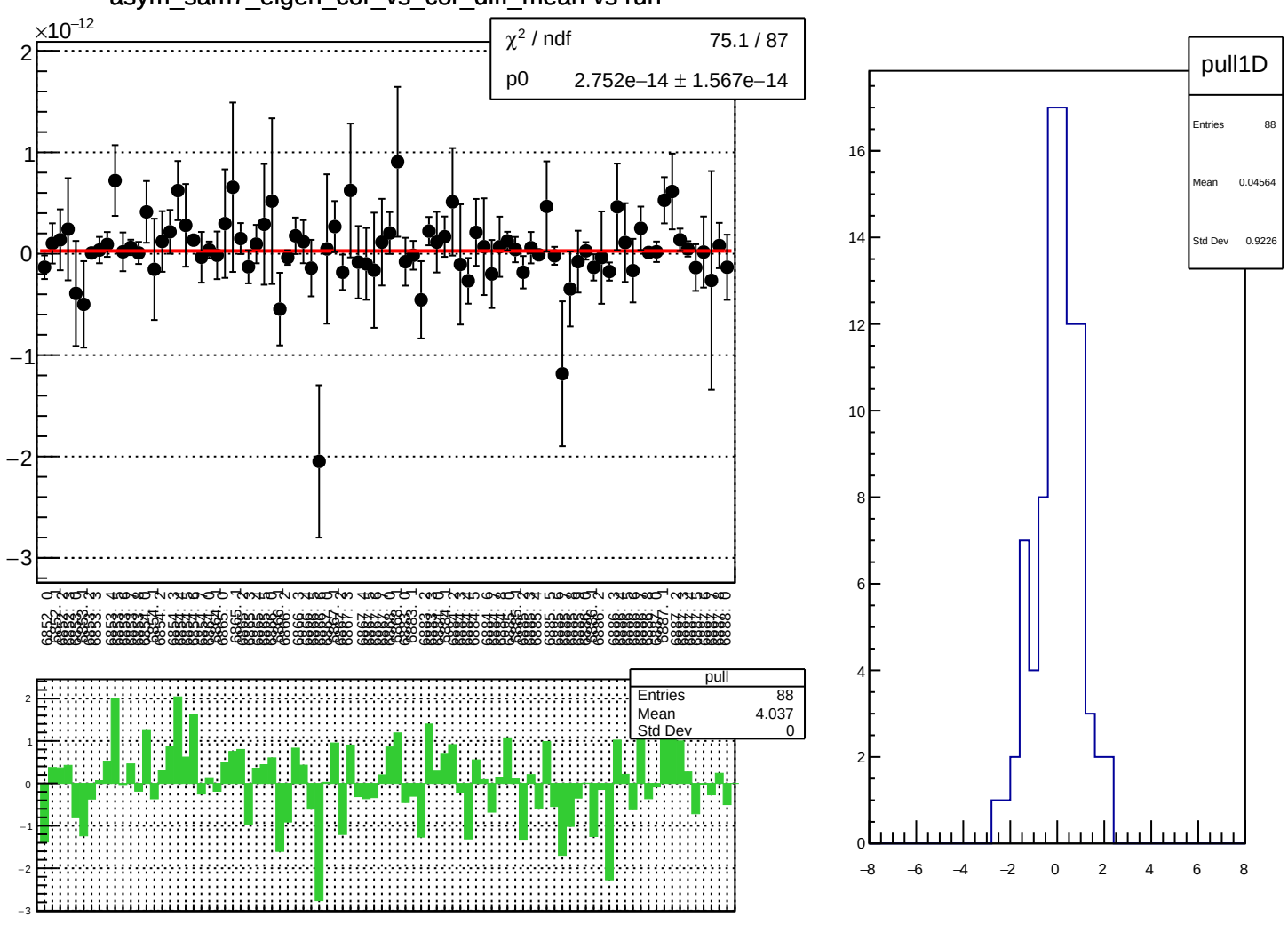

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.56 / 87
p0 0.05808 ± 0.03033
pull
Entries 88
Mean 127.3
Std Dev 0
pull1D
Entries 88
Mean −0.01901
Std Dev 0.8952

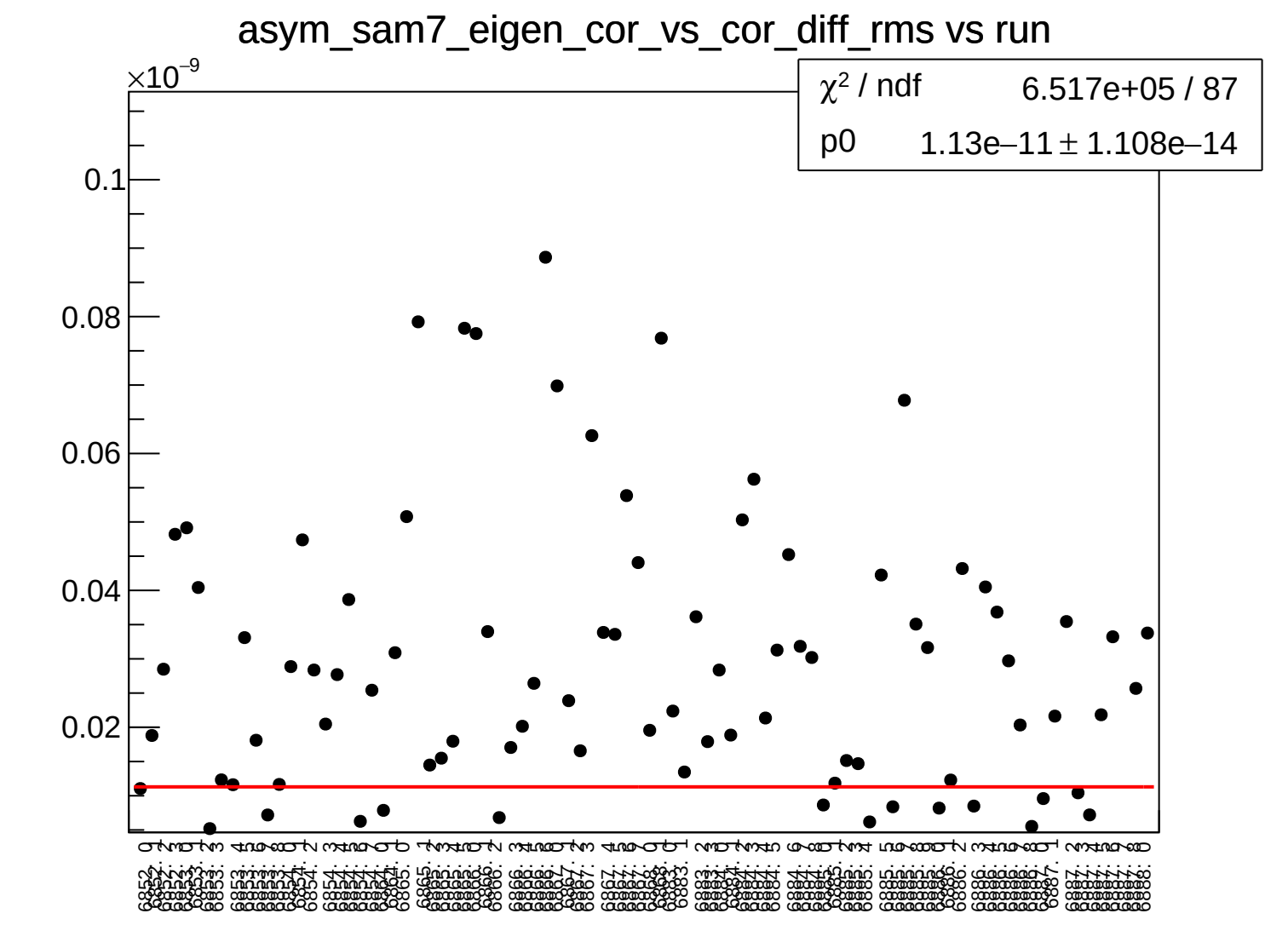

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.221e+04 / 87
p0 27.45 ± 0.02145
80
70
60
50
40
30
20

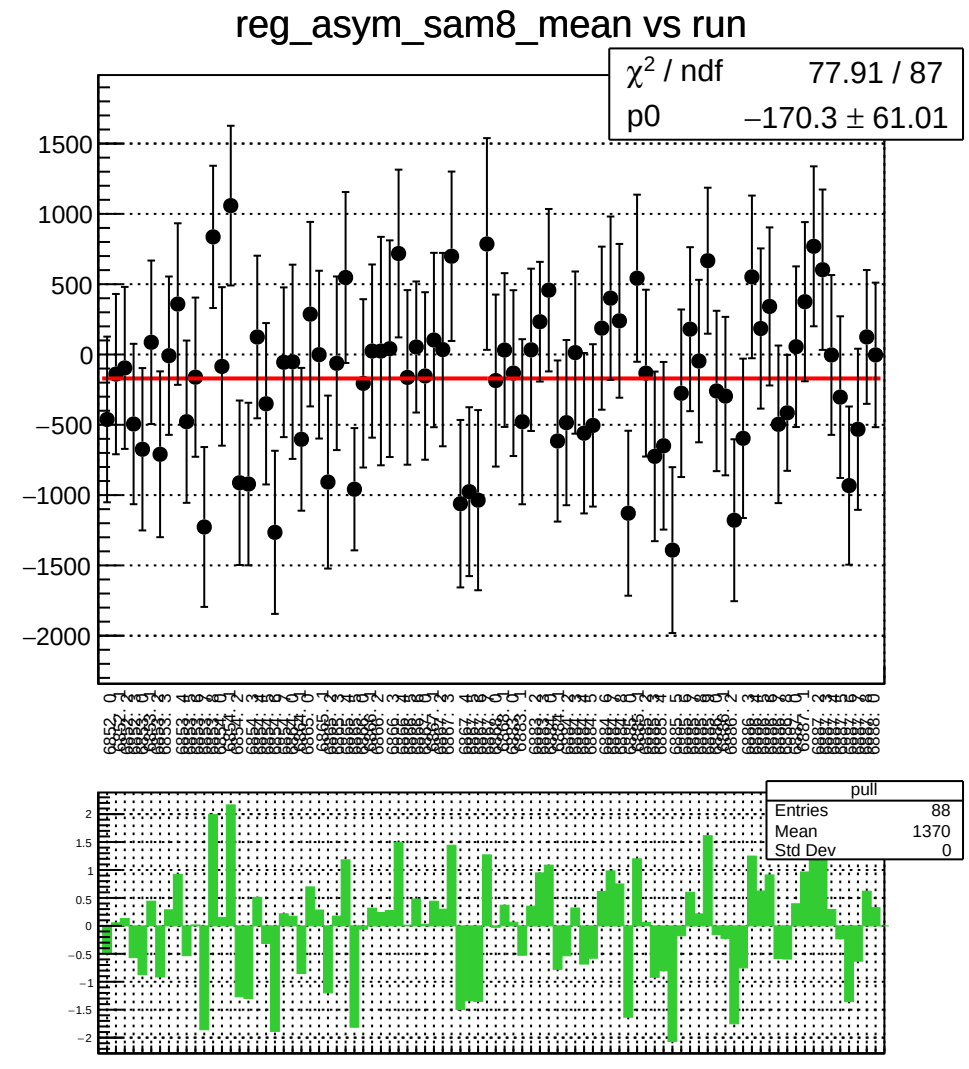

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.56 / 87
p0 0.05808 ± 0.03033
pull
Entries 88
Mean 127.3
Std Dev 0

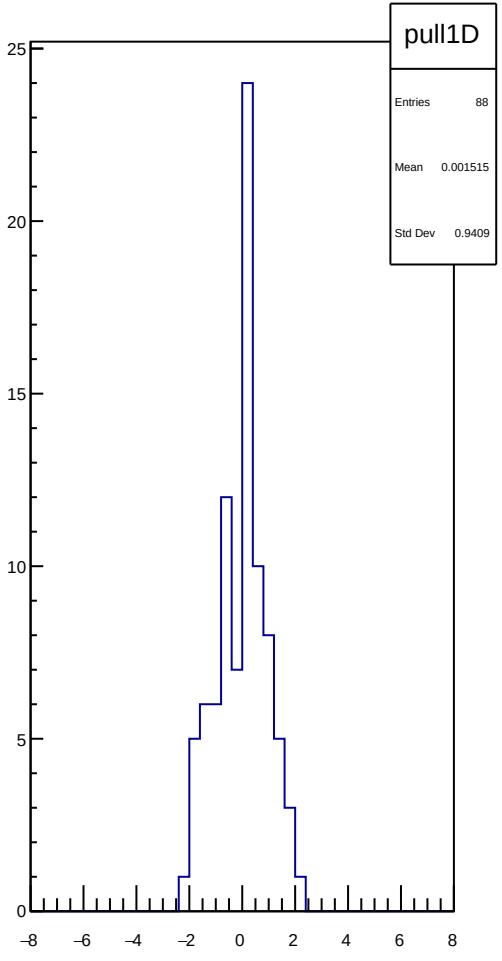

pull1D
Entries 88
Mean −0.01901
Std Dev 0.8952

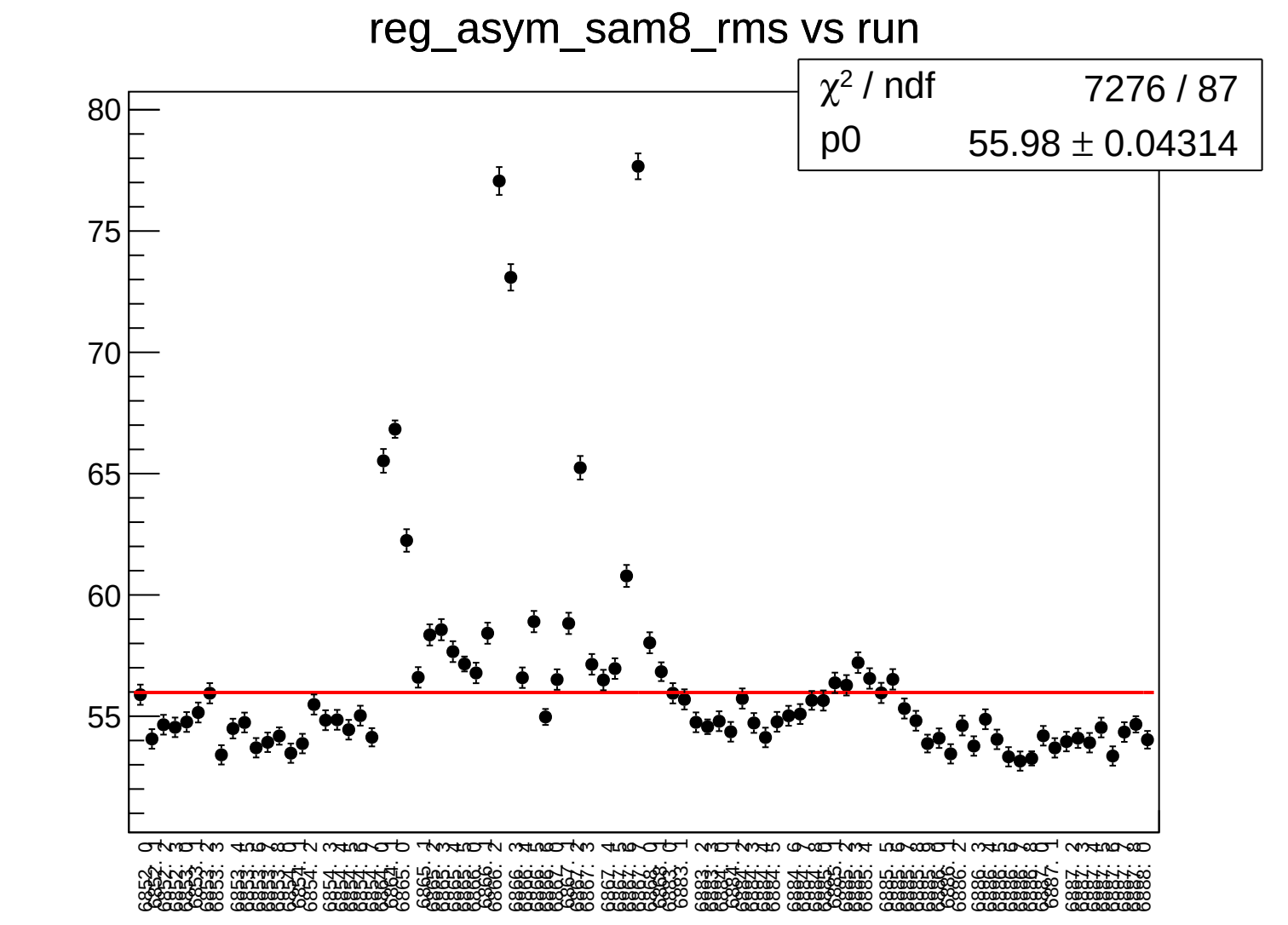

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.221e+04 / 87
p0 27.45 ± 0.02145
80
70
60
50
40
30
20

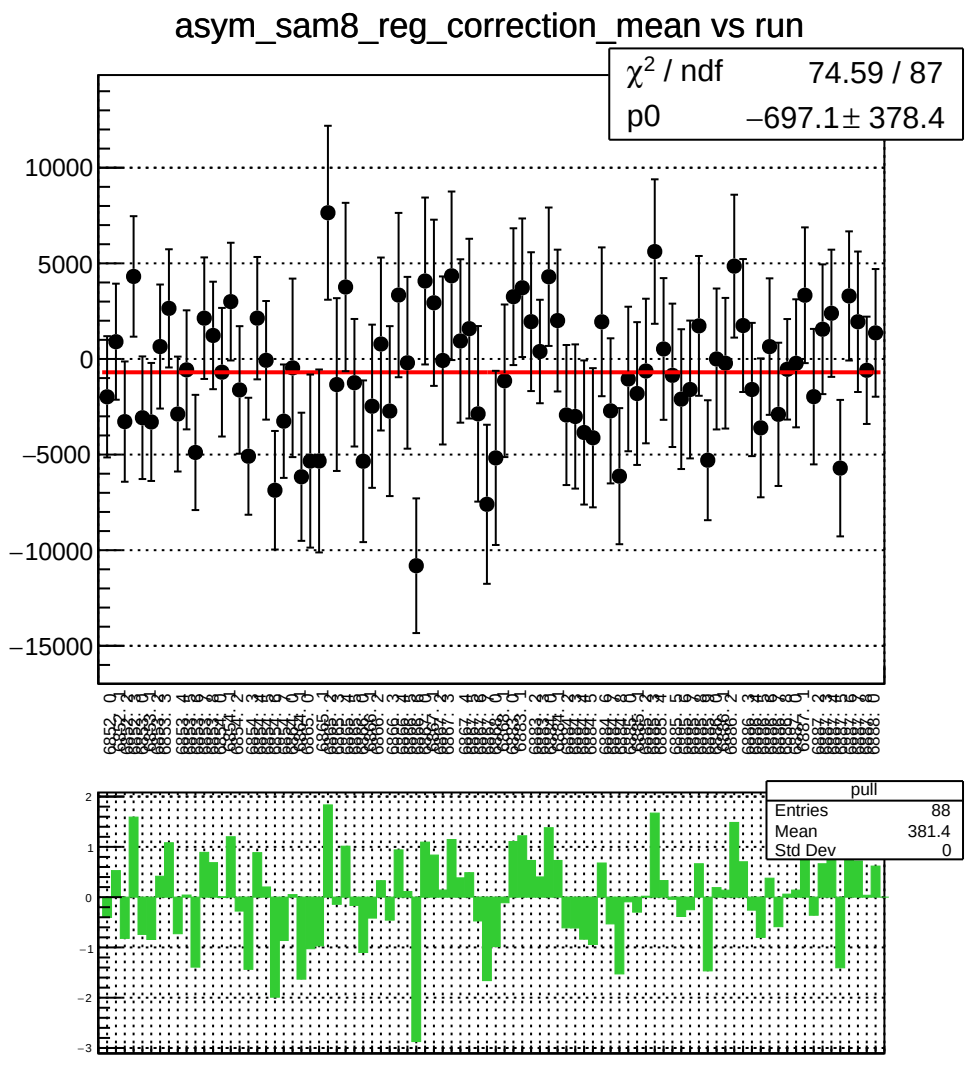

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.1 / 87
p0 2.752e−14 ± 1.567e−14
pull
Entries 88
Mean 4.037
Std Dev 0
pull1D
Entries 88
Mean 0.04564
Std Dev 0.9226

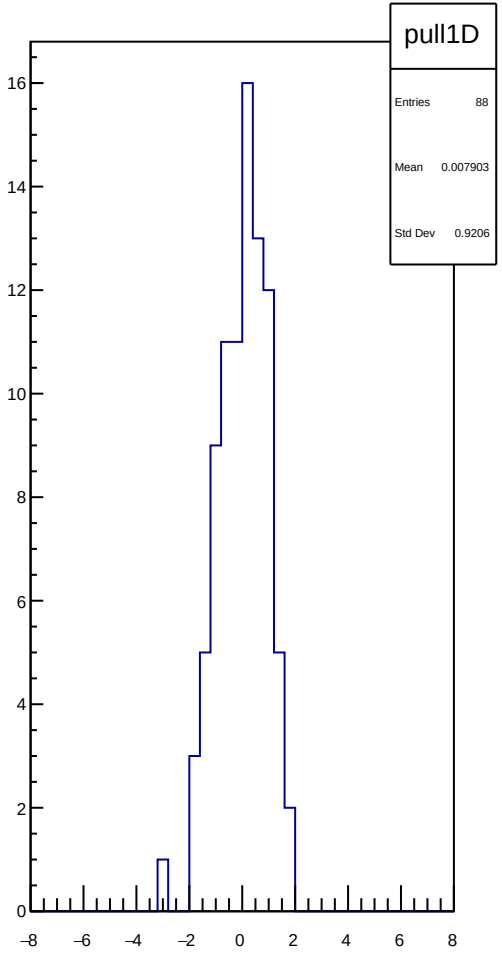

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.517e+05 / 87
p0 1.13e−11 ± 1.108e−14
0.1
0.08
0.06
0.04
0.02

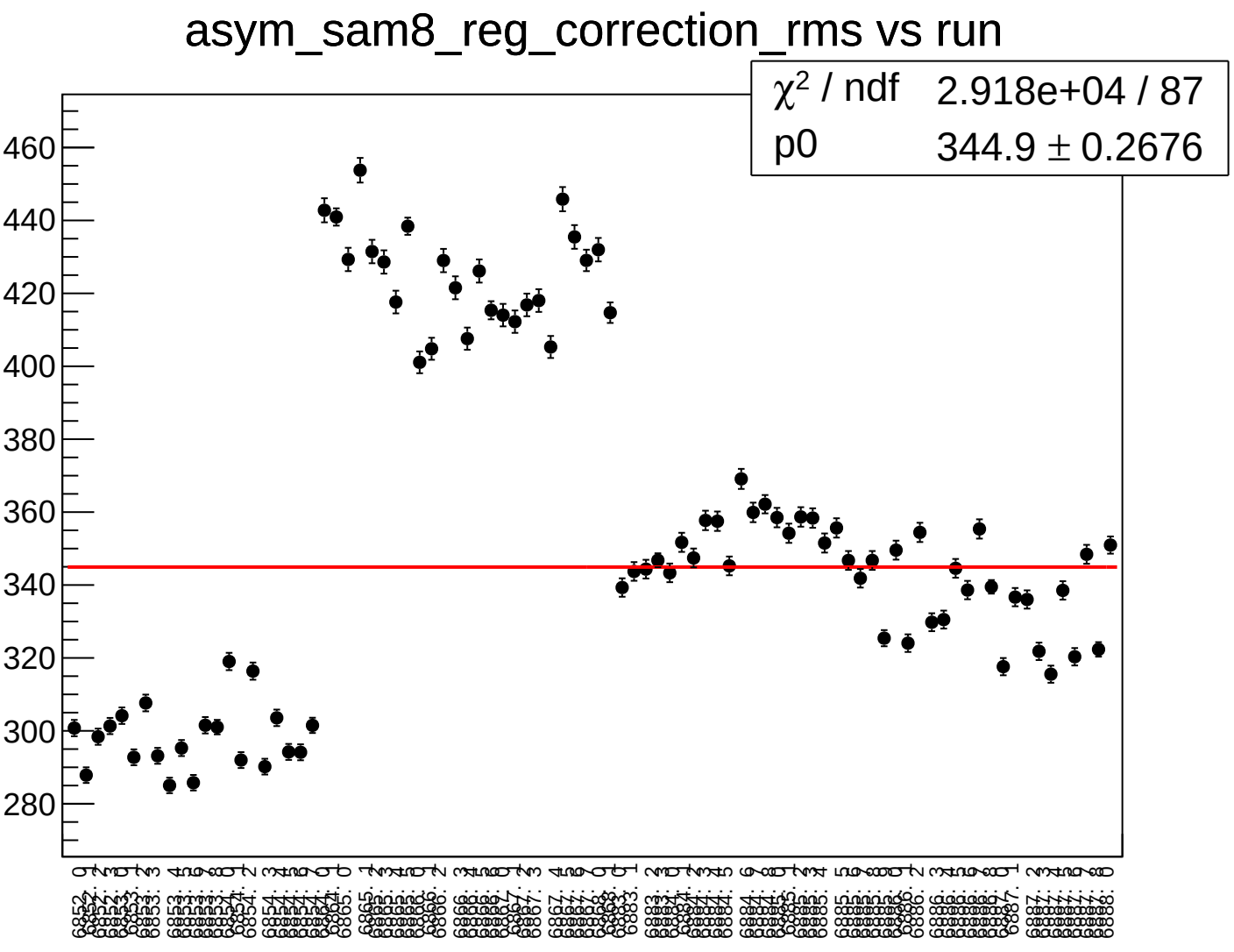

reg_asym_sam8_mean vs run
χ² / ndf 77.91 / 87
p0 −170.3 ± 61.01
pull
Entries 88
Mean 1370
Std Dev 0

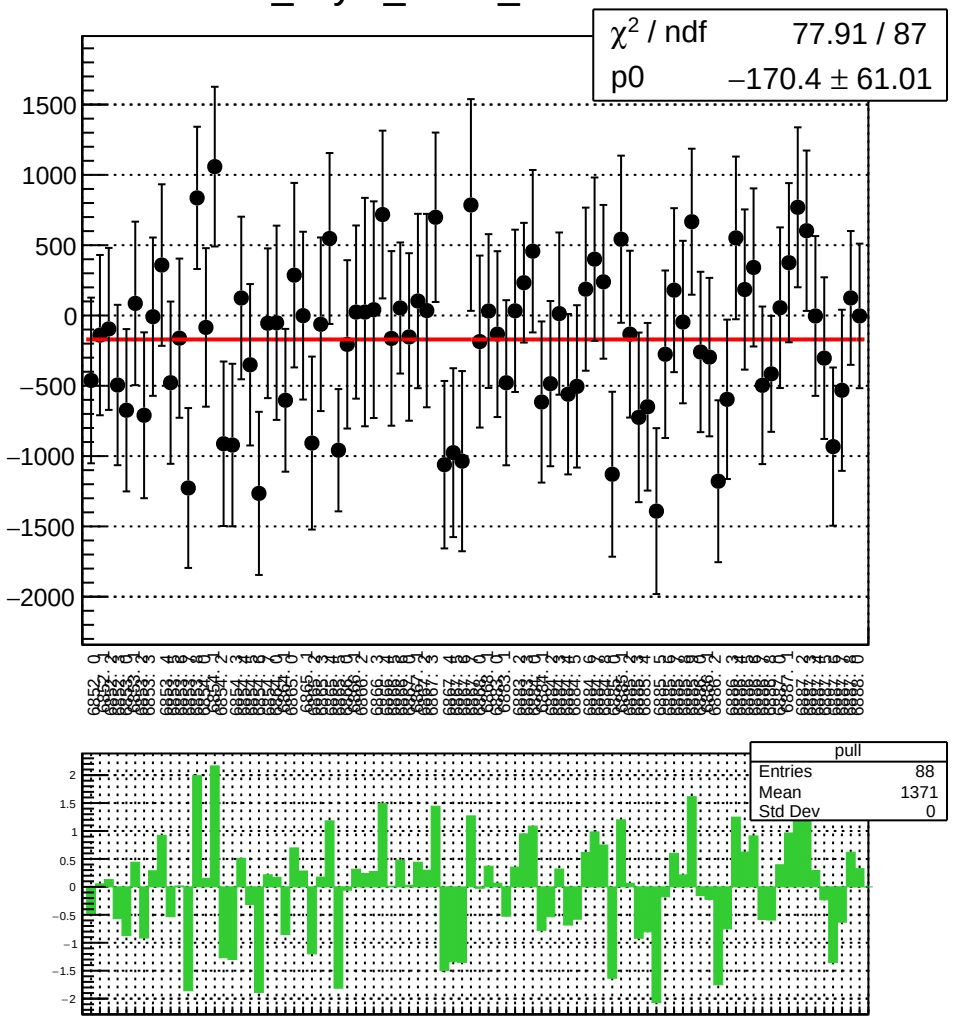

pull1D
Entries 88
Mean 0.001515
Std Dev 0.9409

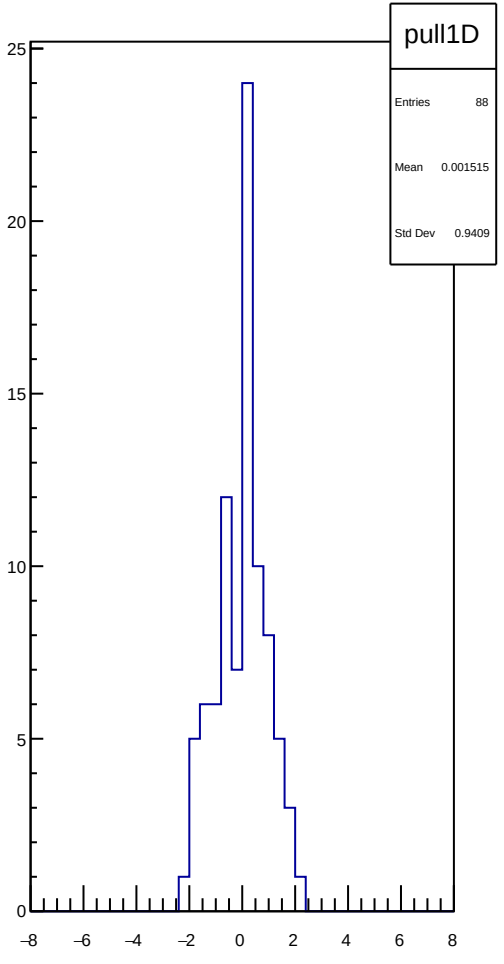

reg_asym_sam8_rms vs run
χ² / ndf 7276 / 87
p0 55.98 ± 0.04314
80
75
70
65
60
55

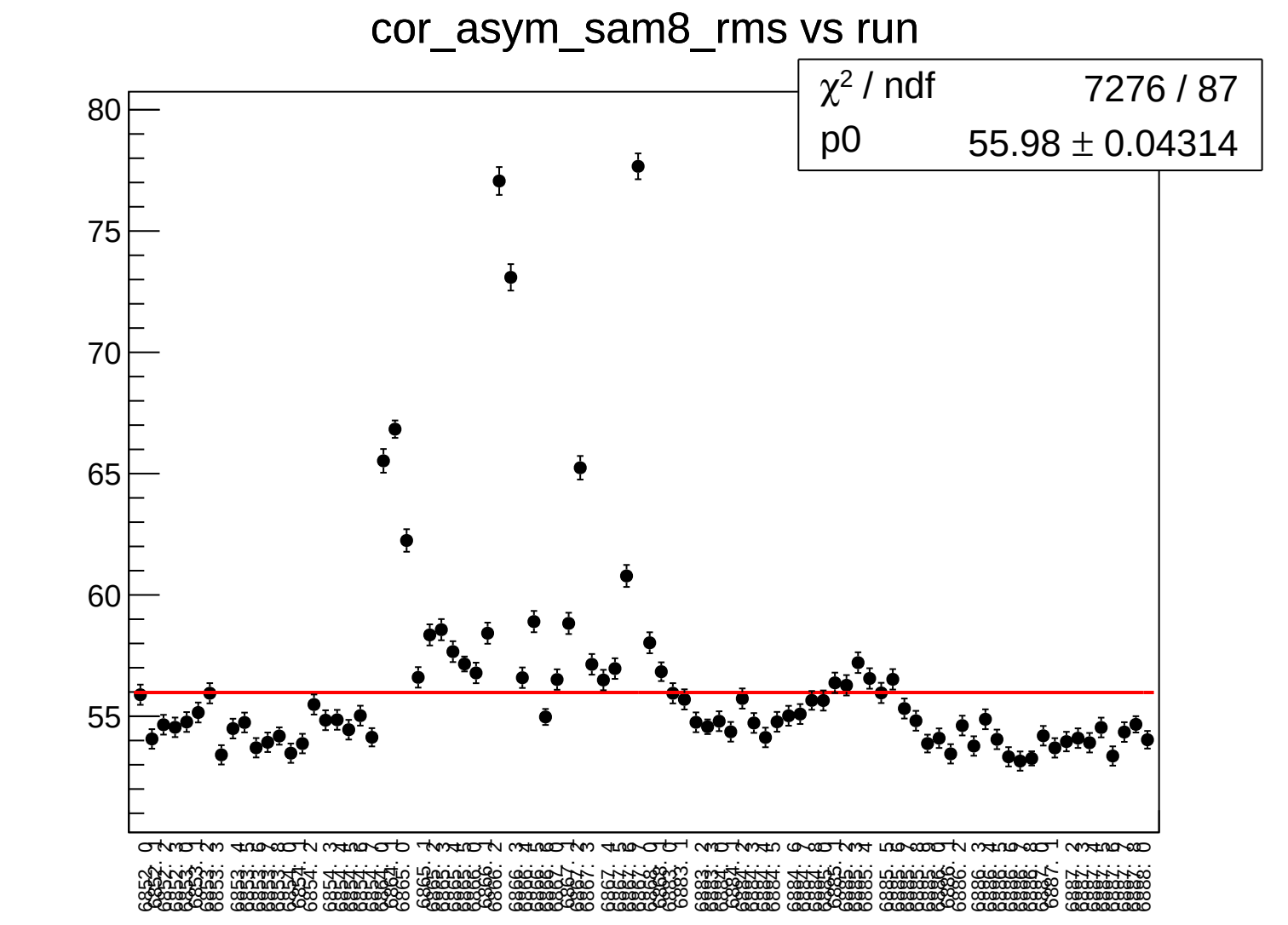

asym_sam8_reg_correction_mean vs run
χ² / ndf 74.59 / 87
p0 −697.1 ± 378.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 381.4
Std Dev 0
2
1
0
−1
−2
−3

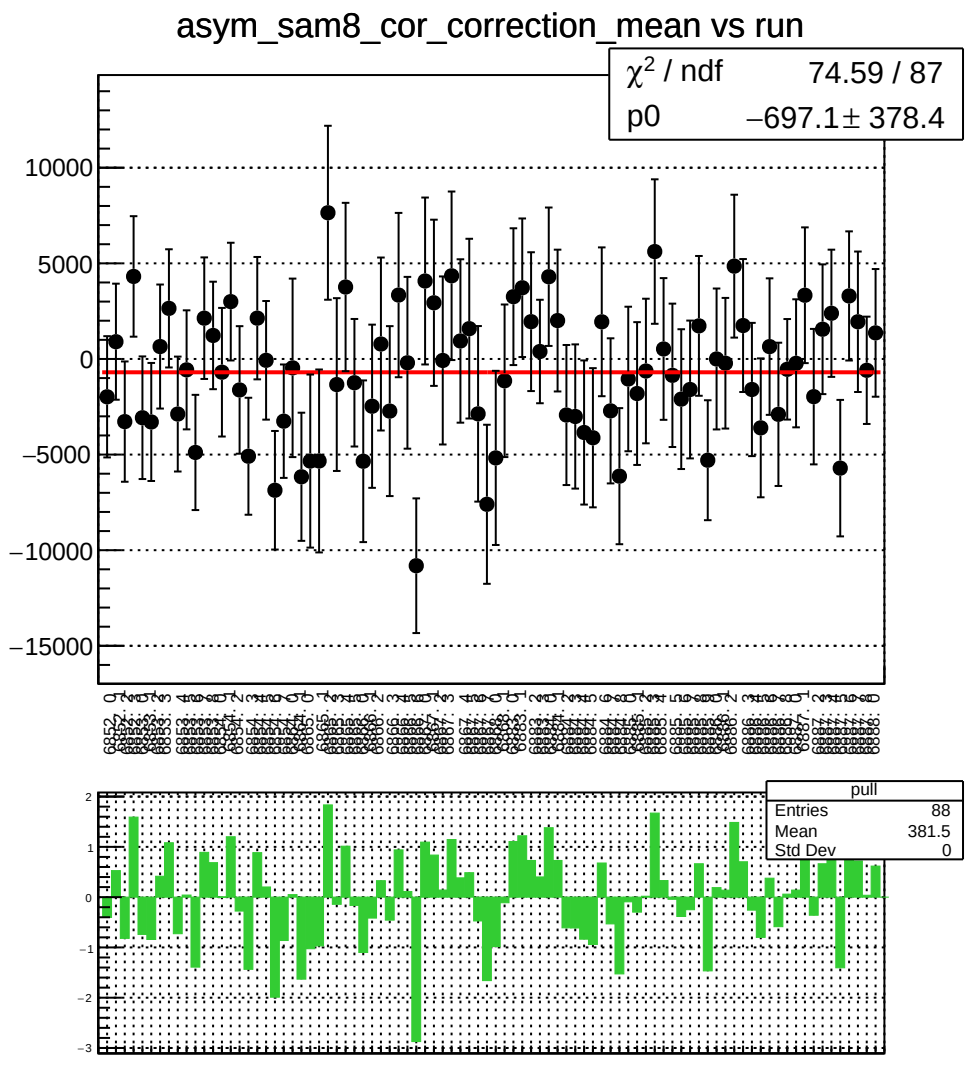

pull1D
Entries 88
Mean 0.007903
Std Dev 0.9206
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

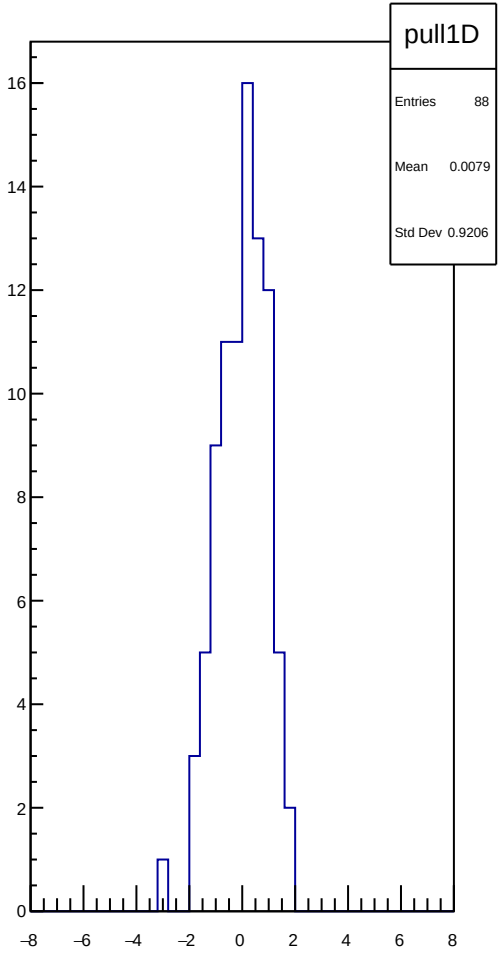

asym_sam8_reg_correction_rms vs run
χ² / ndf 2.918e+04 / 87
p0 344.9 ± 0.2676
460
440
420
400
380
360
340
320
300
280

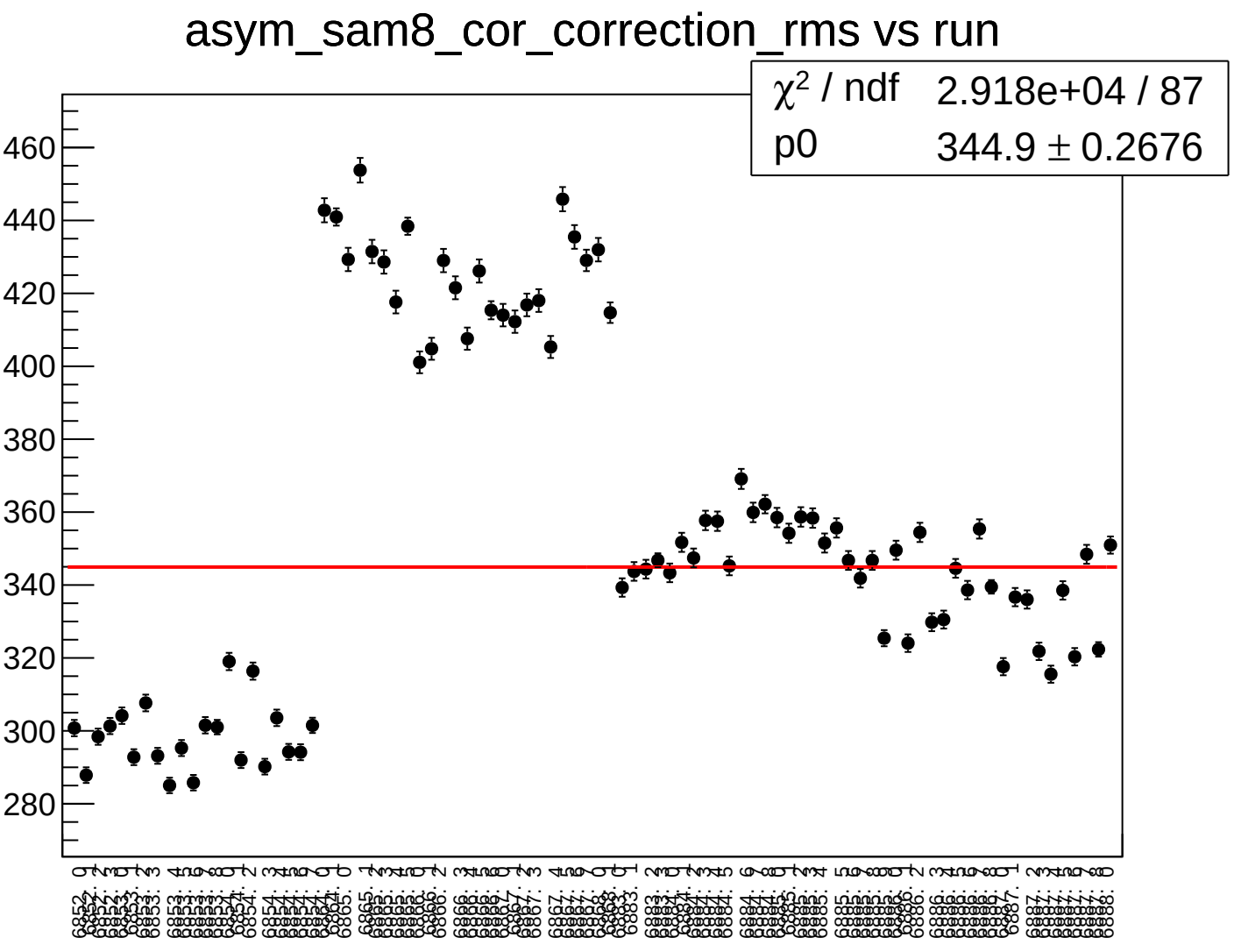

cor_asym_sam8_mean vs run
χ² / ndf 77.91 / 87
p0 −170.4 ± 61.01
pull
Entries 88
Mean 1371
Std Dev 0

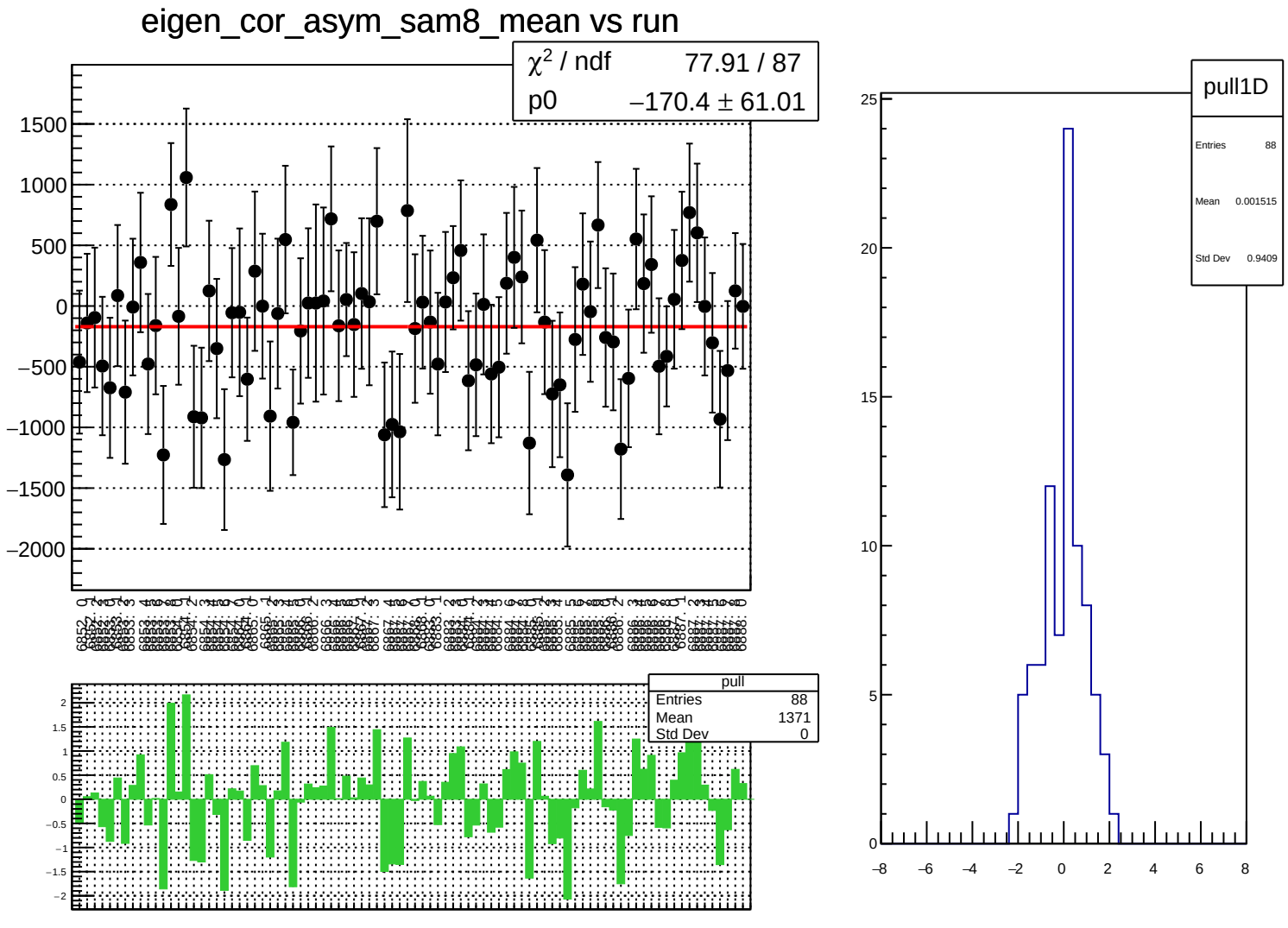

pull1D
Entries 88
Mean 0.001515
Std Dev 0.9409

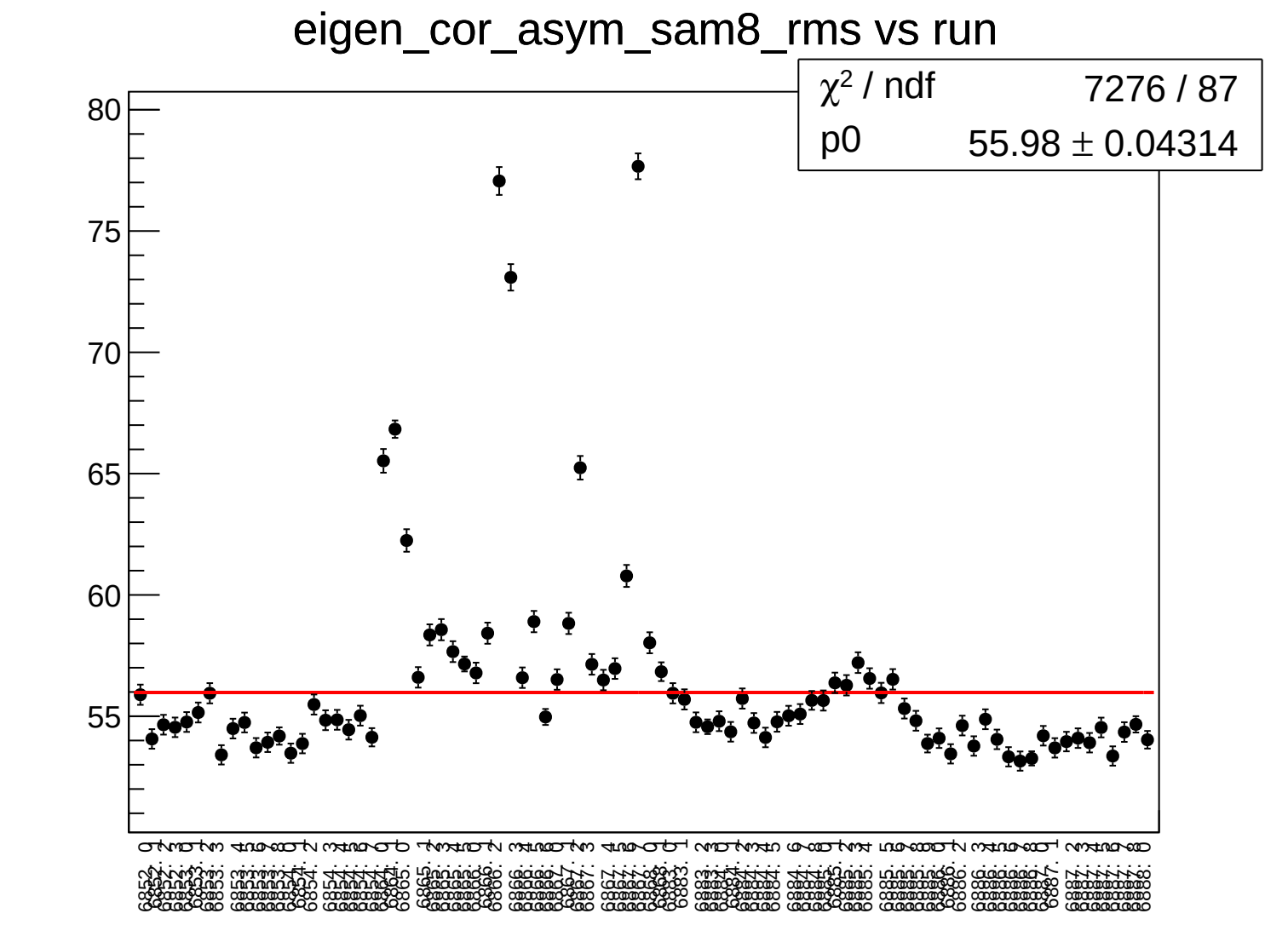

cor_asym_sam8_rms vs run
χ² / ndf 7276 / 87
p0 55.98 ± 0.04314
80
75
70
65
60
55

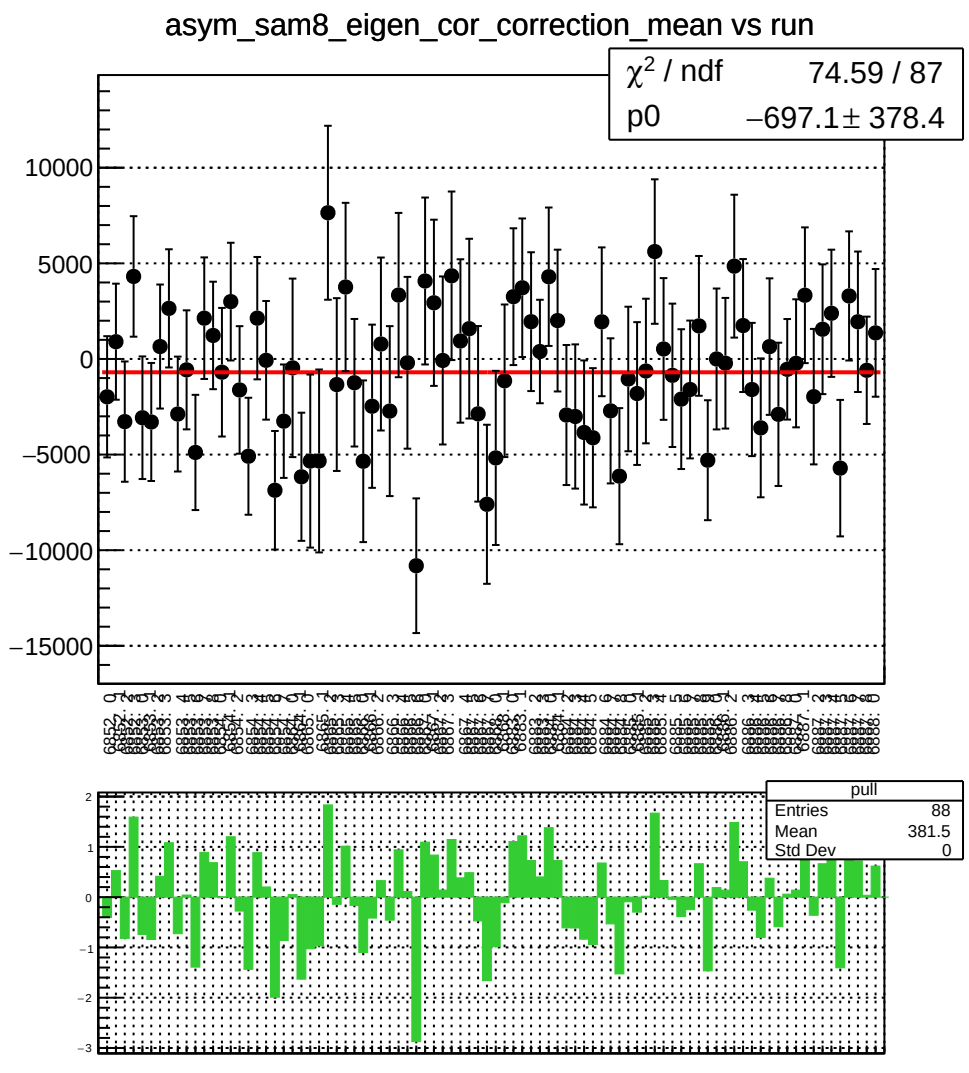

asym_sam8_cor_correction_mean vs run
χ² / ndf 74.59 / 87
p0 −697.1± 378.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 381.5
Std Dev 0
2
1
0
−1
−2
−3

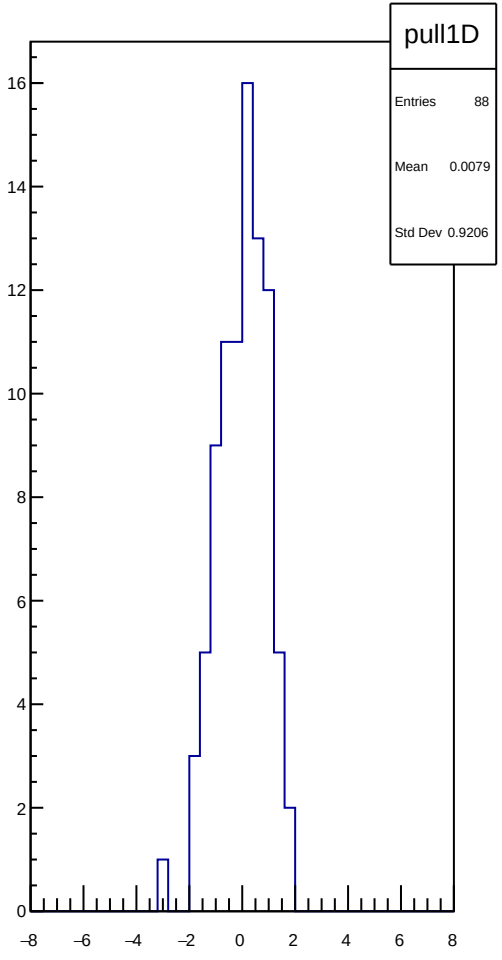

pull1D
Entries 88
Mean 0.0079
Std Dev 0.9206
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

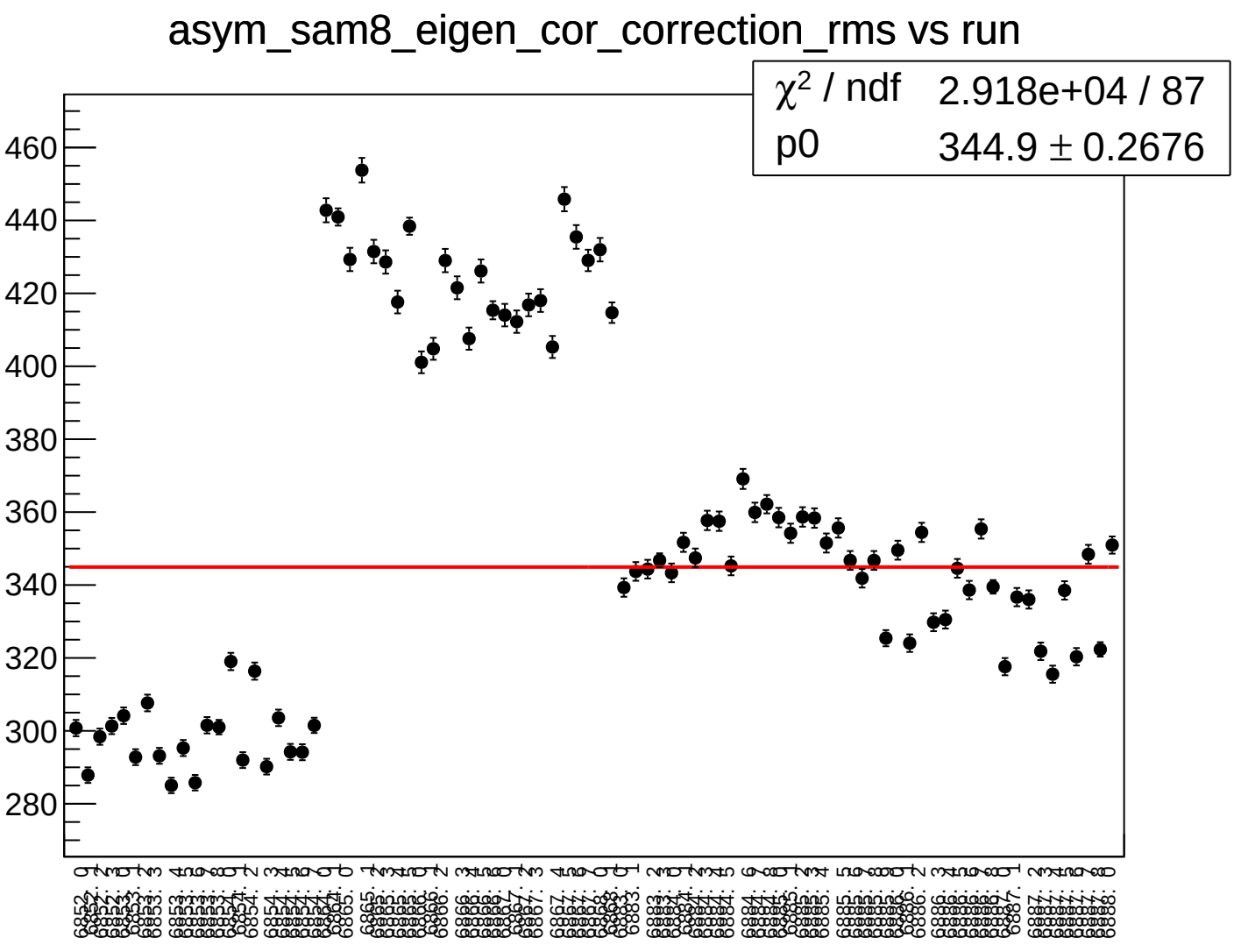

asym_sam8_cor_correction_rms vs run
χ² / ndf 2.918e+04 / 87
p0 344.9 ± 0.2676
460
440
420
400
380
360
340
320
300
280

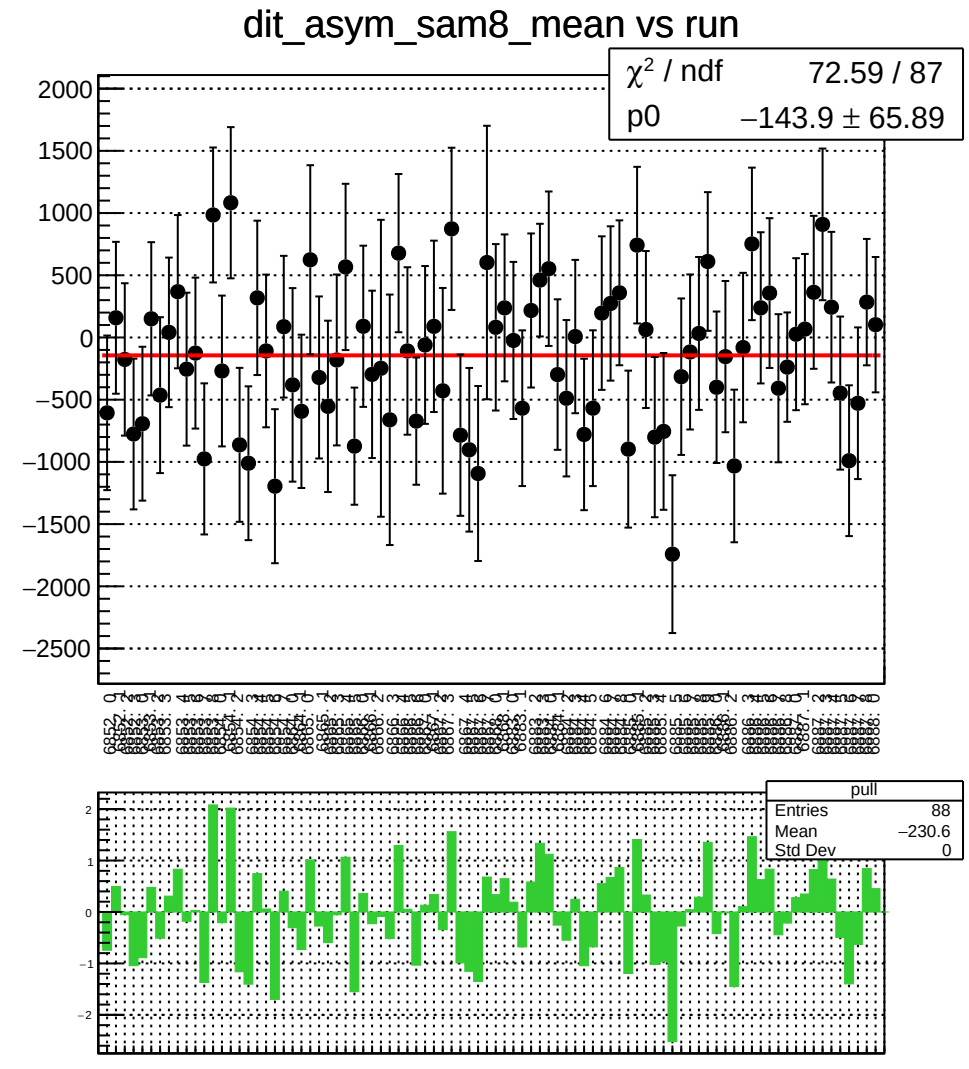

eigen_cor_asym_sam8_mean vs run
χ² / ndf 77.91 / 87
p0 −170.4 ± 61.01
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 88
Mean 1371
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.001515
Std Dev 0.9409
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

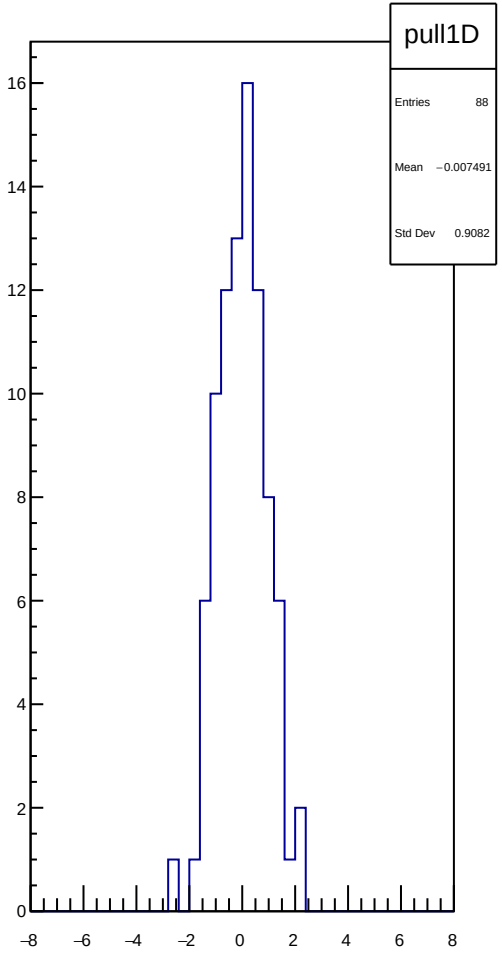

eigen_cor_asym_sam8_rms vs run
χ² / ndf 7276 / 87
p0 55.98 ± 0.04314
80
75
70
65
60
55

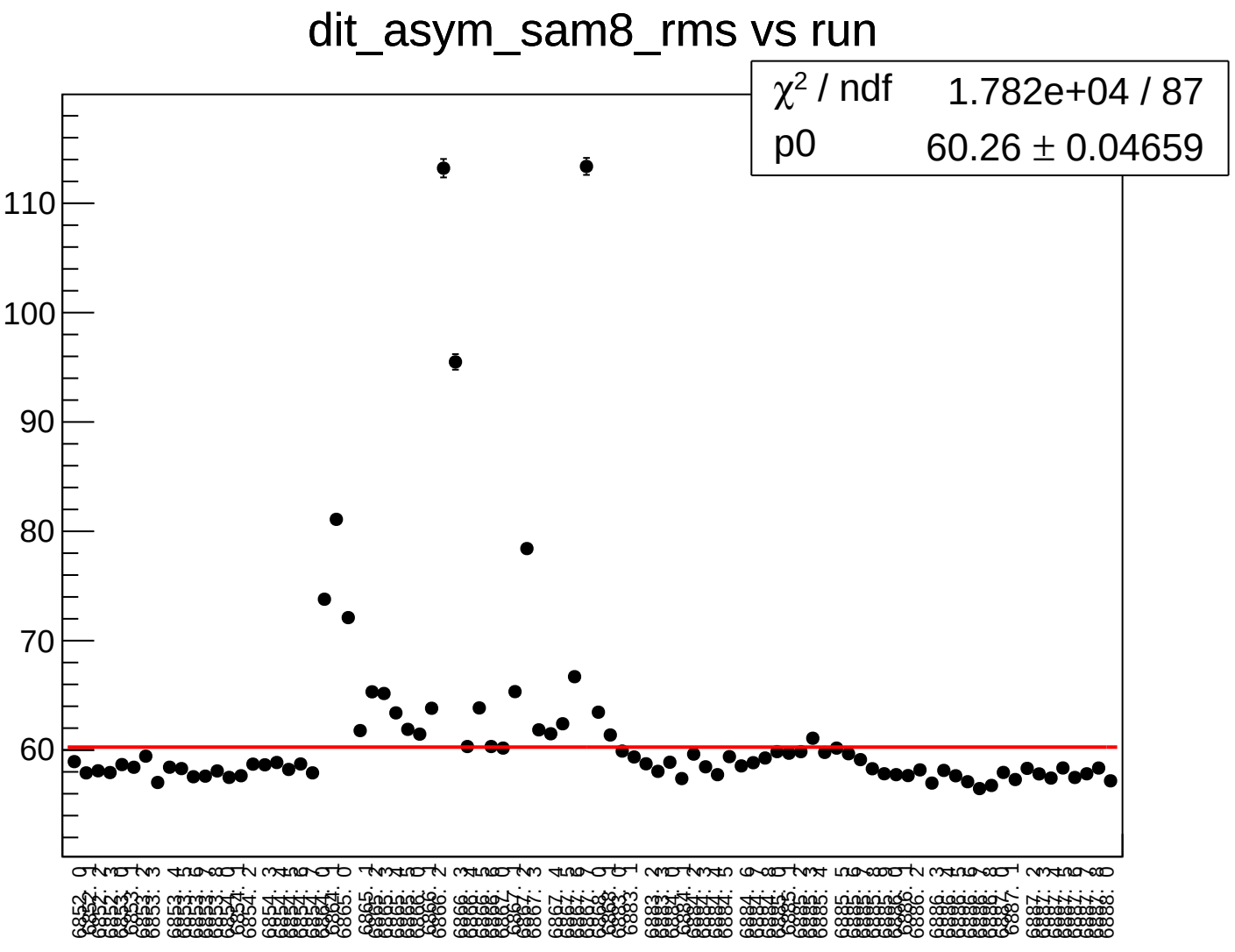

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 74.59 / 87
p0 −697.1 ± 378.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 381.5
Std Dev 0
2
1
0
−1
−2
−3

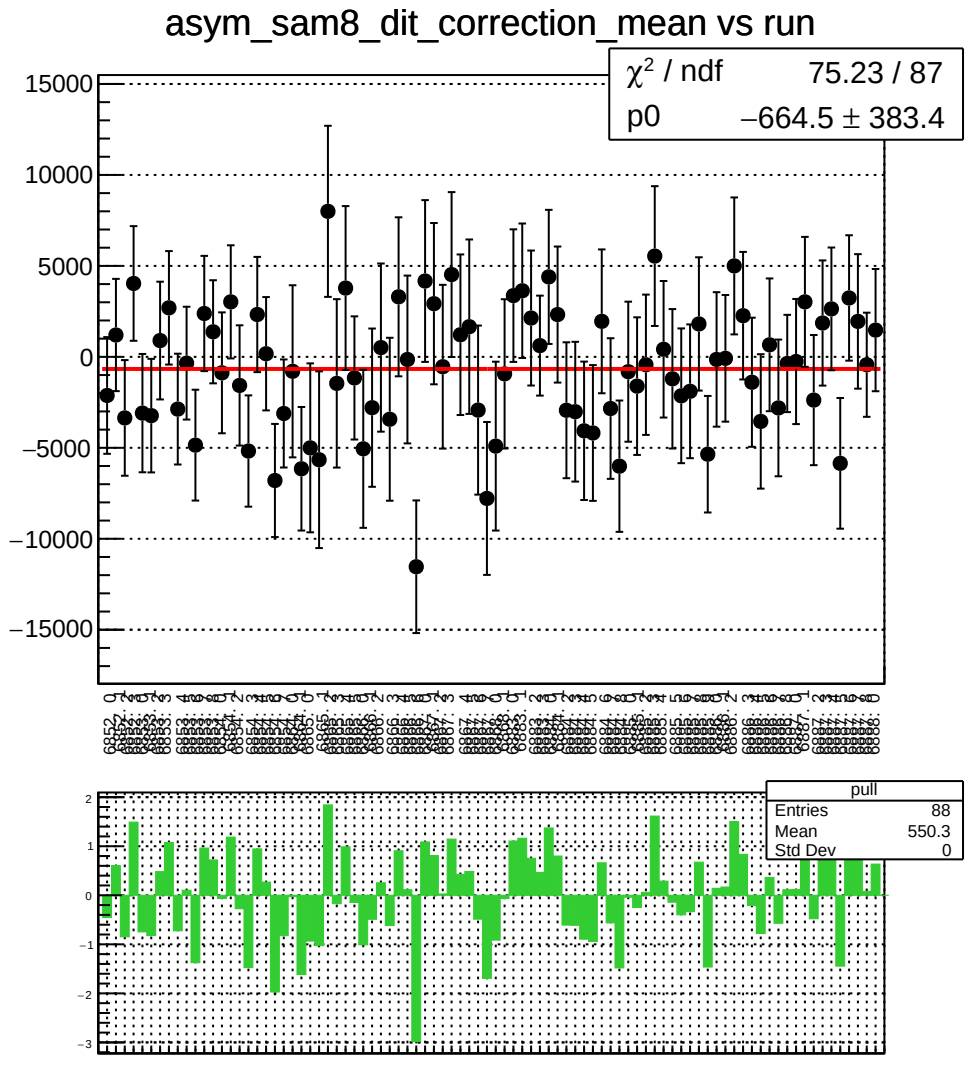

pull1D
Entries 88
Mean 0.0079
Std Dev 0.9206
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

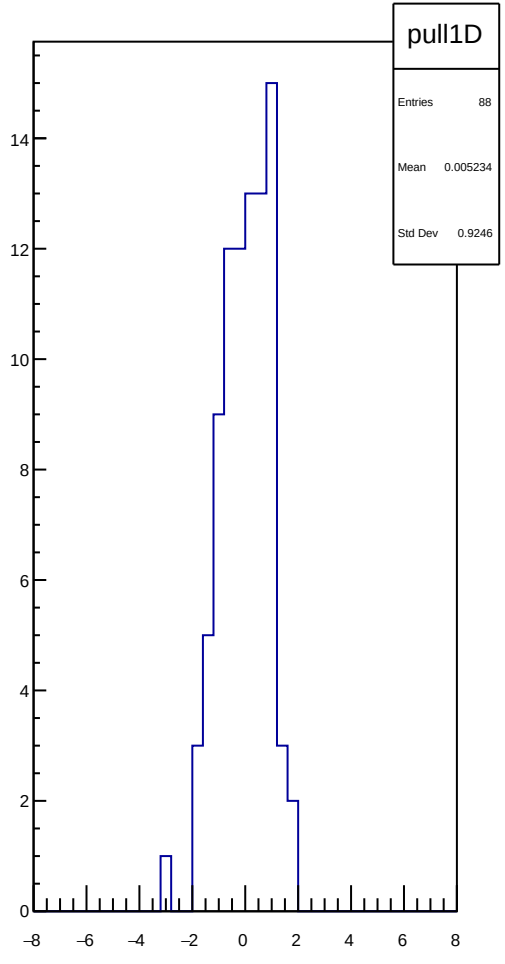

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 2.918e+04 / 87
p0 344.9 ± 0.2676
460
440
420
400
380
360
340
320
300
280


dit_asym_sam8_mean vs run
χ² / ndf 72.59 / 87
p0 −143.9 ± 65.89
pull
Entries 88
Mean −230.6
Std Dev 0

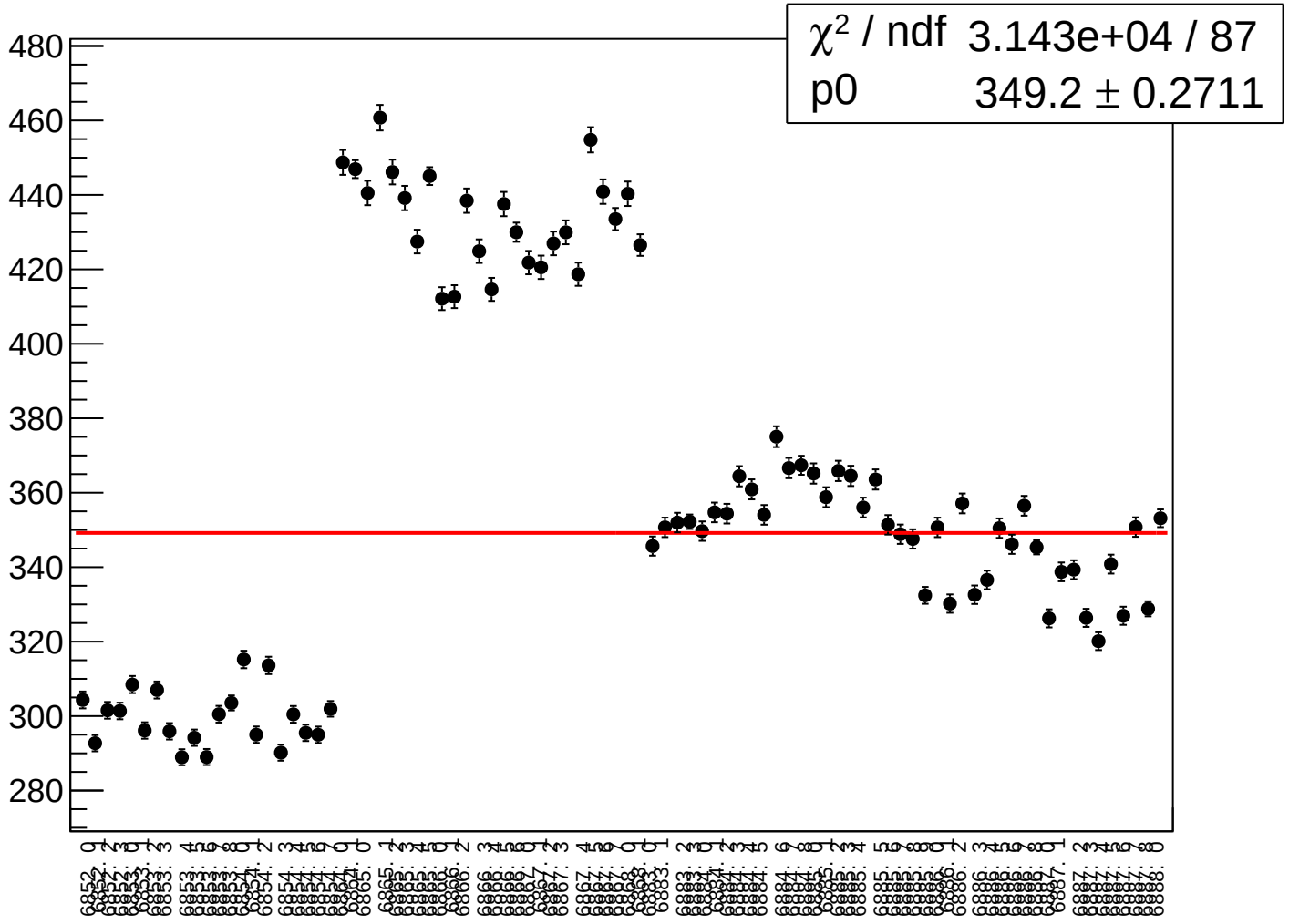

pull1D
Entries 88
Mean −0.007491
Std Dev 0.9082

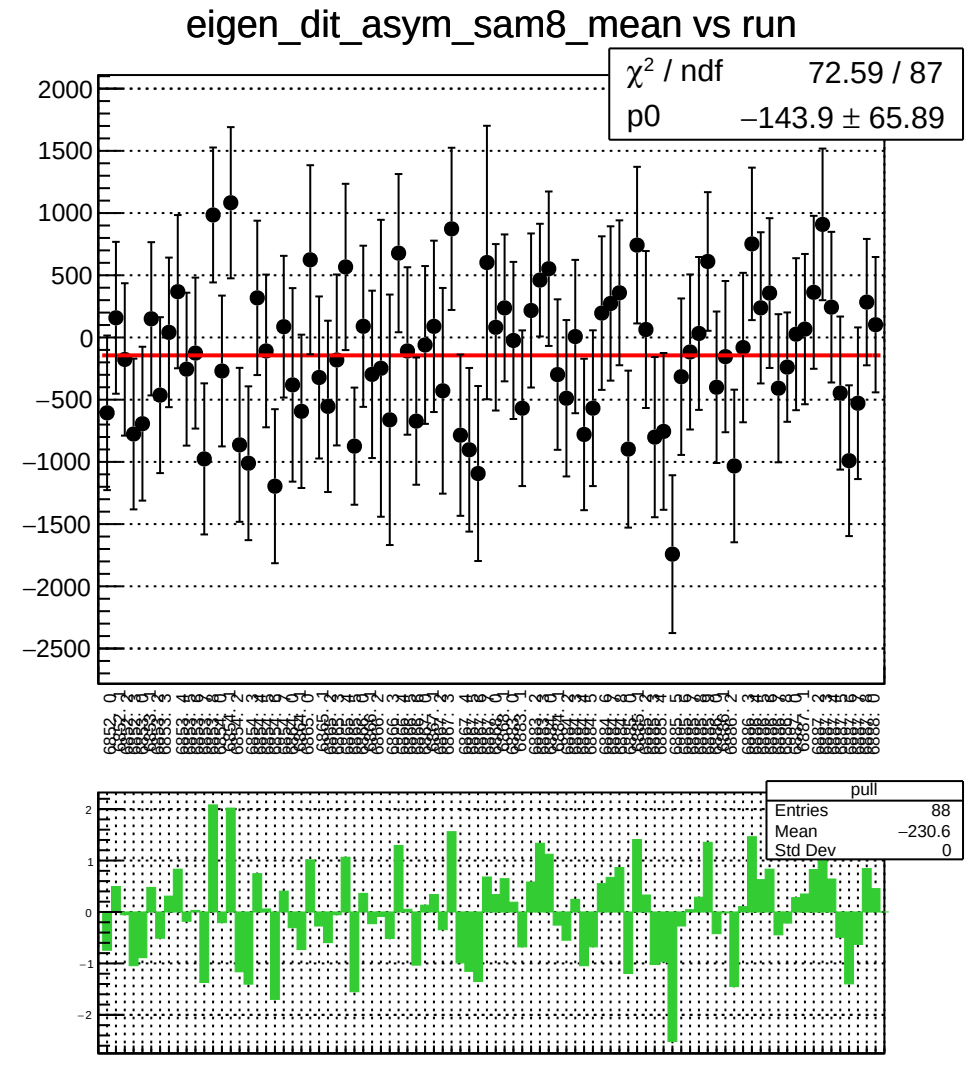

dit_asym_sam8_rms vs run
χ² / ndf 1.782e+04 / 87
p0 60.26 ± 0.04659
110
100
90
80
70
60

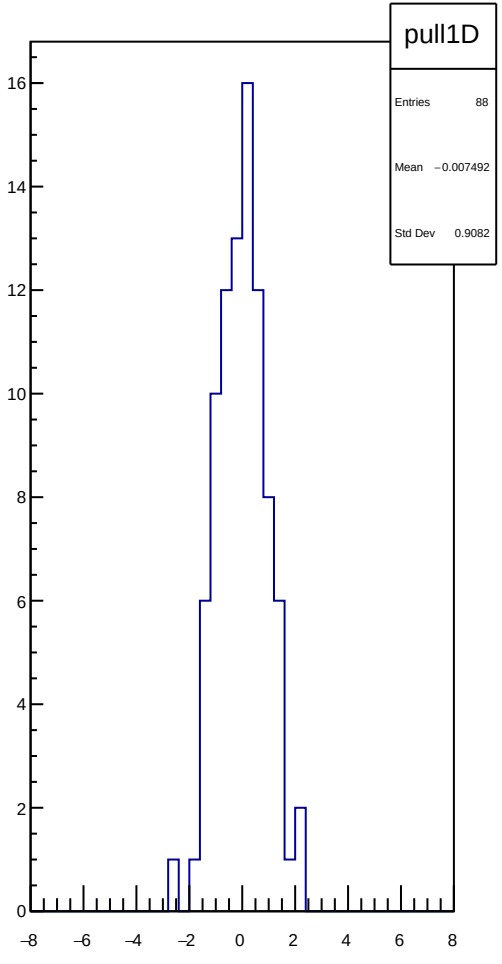

asym_sam8_dit_correction_mean vs run
χ² / ndf 75.23 / 87
p0 −664.5 ± 383.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 550.3
Std Dev 0
2
1
0
−1
−2
−3

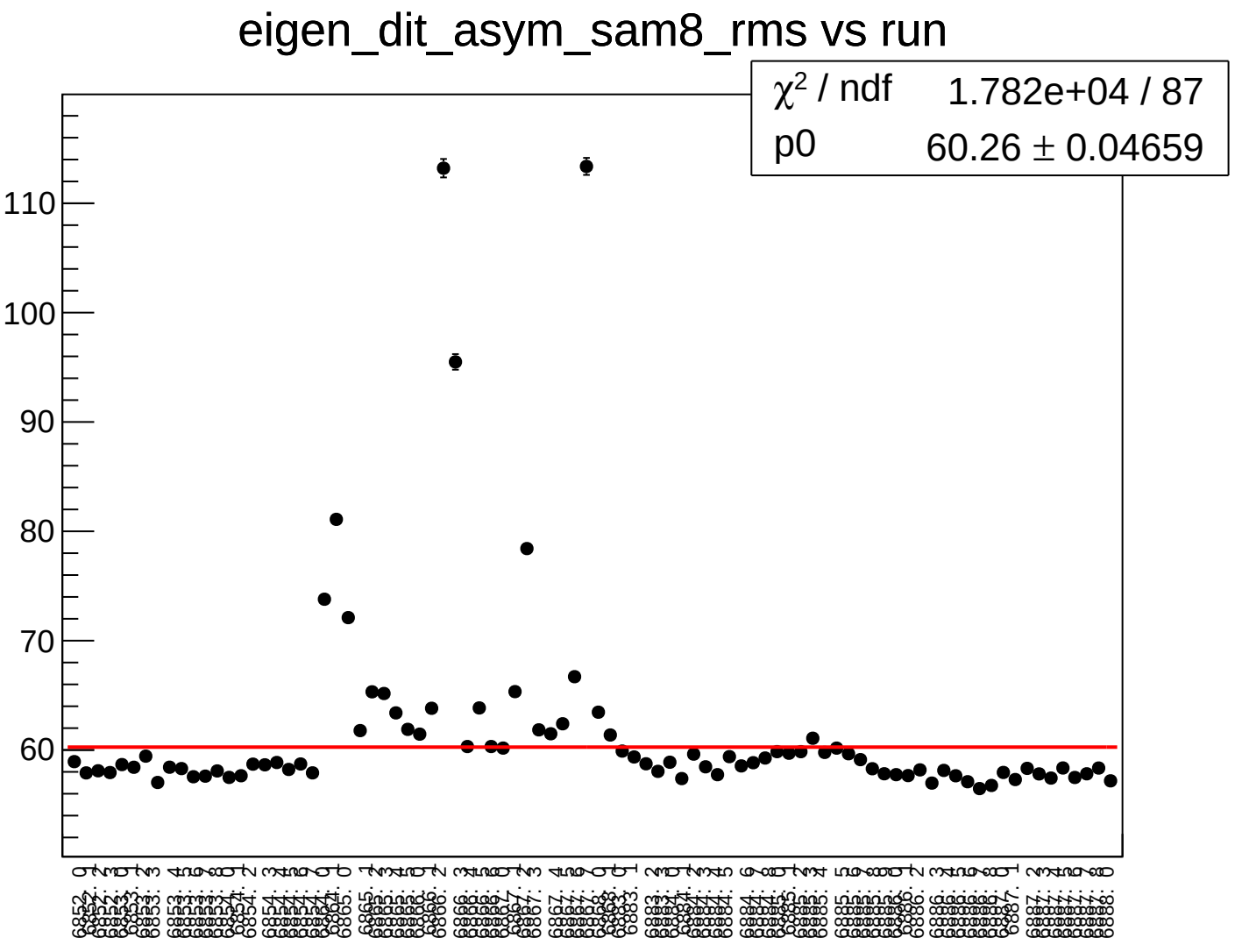

pull1D
Entries 88
Mean 0.005234
Std Dev 0.9246
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

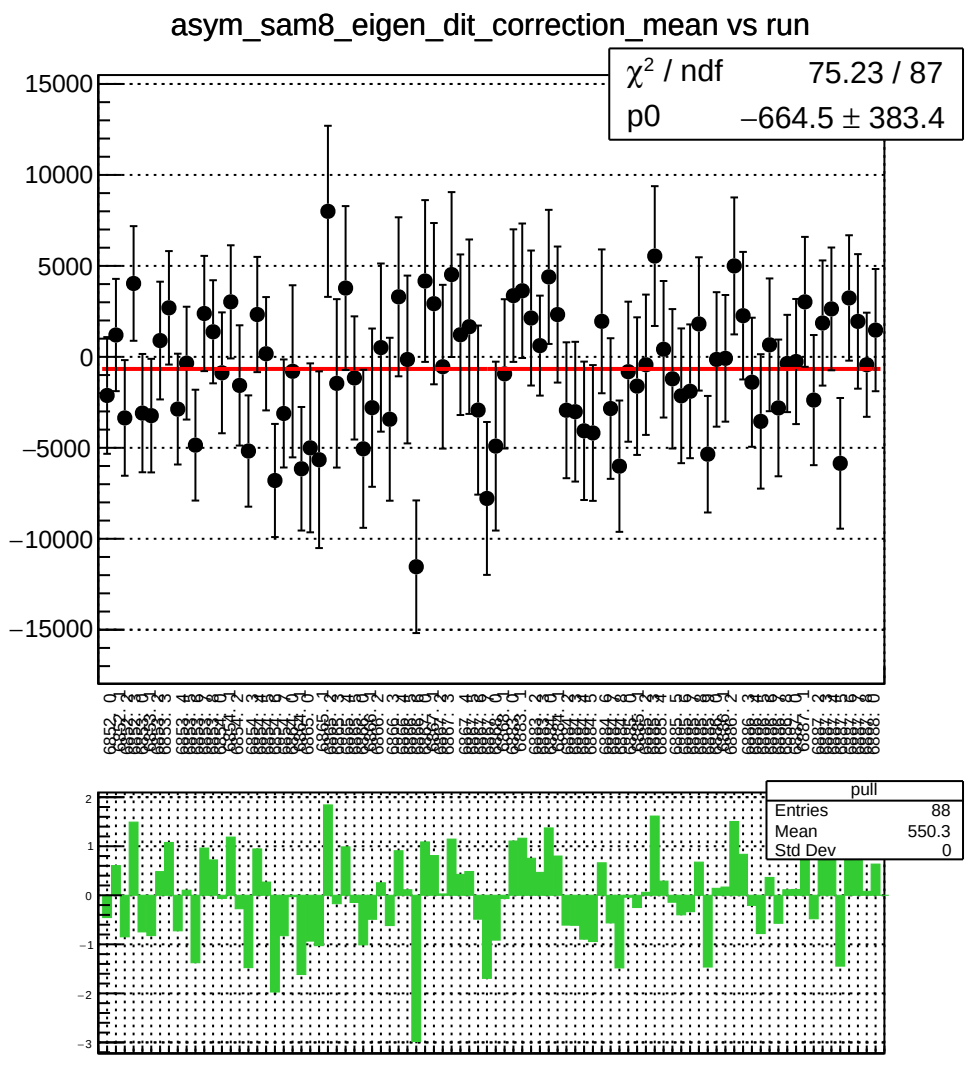
asym_sam8_dit_correction_rms vs run

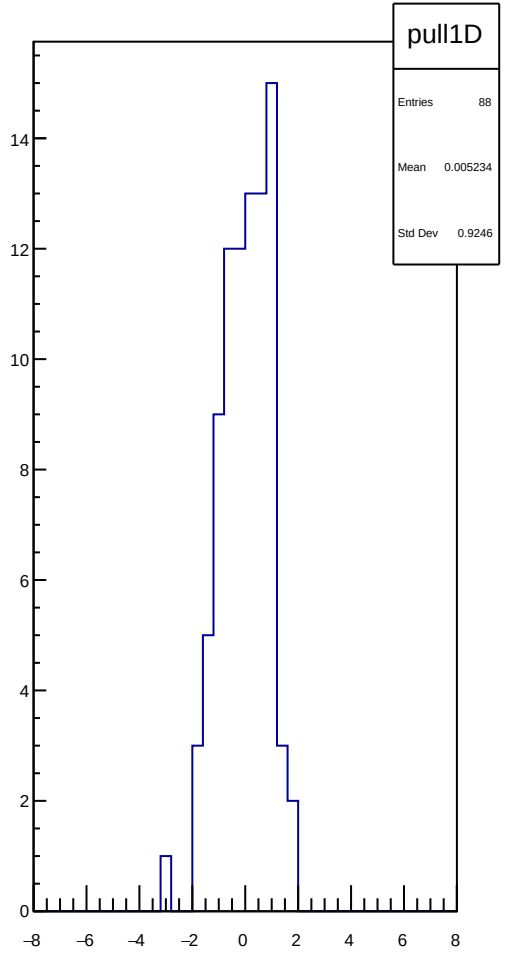


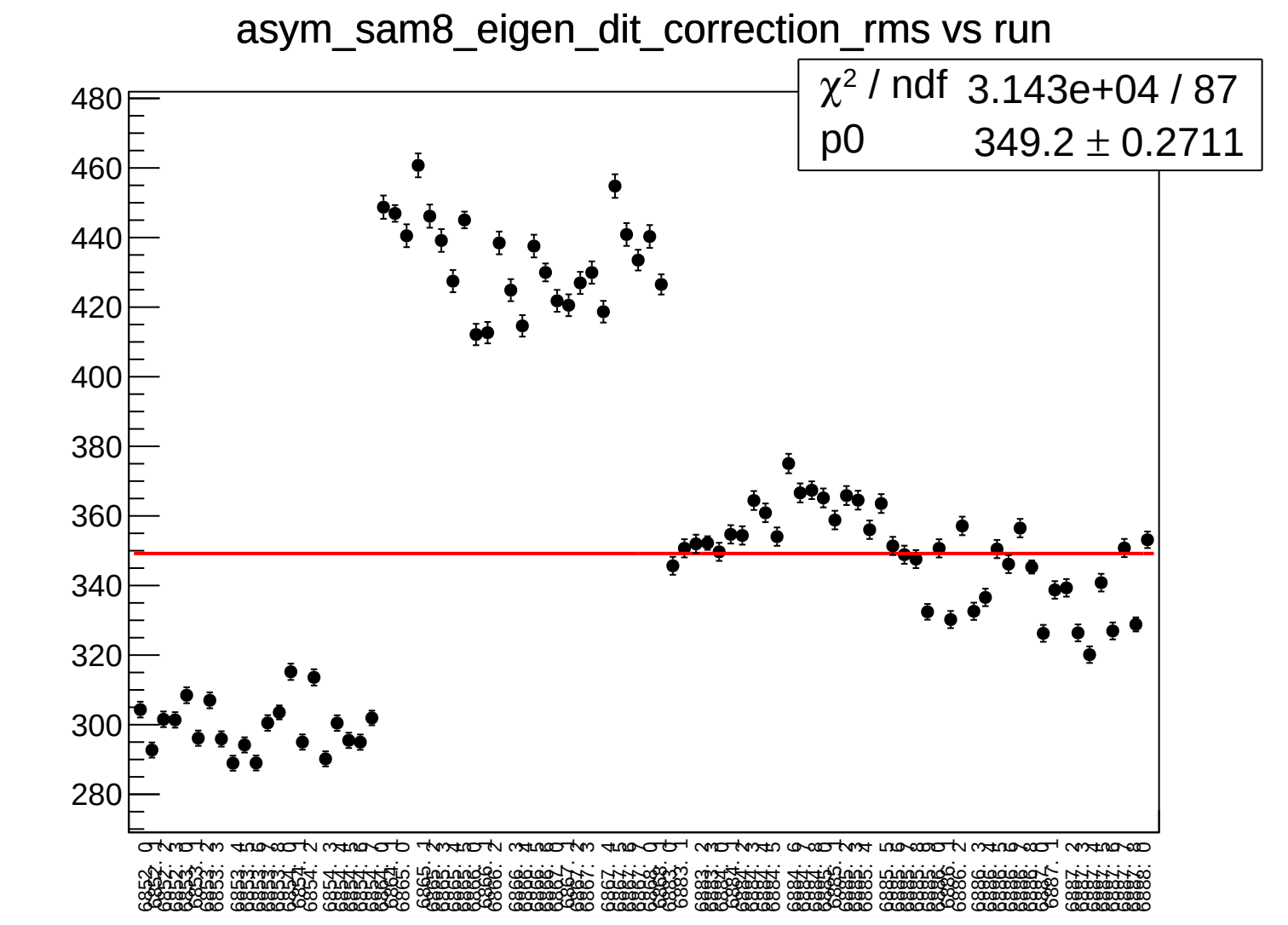

eigen_dit_asym_sam8_mean vs run
χ² / ndf 72.59 / 87
p0 −143.9 ± 65.89
pull
Entries 88
Mean −230.6
Std Dev 0

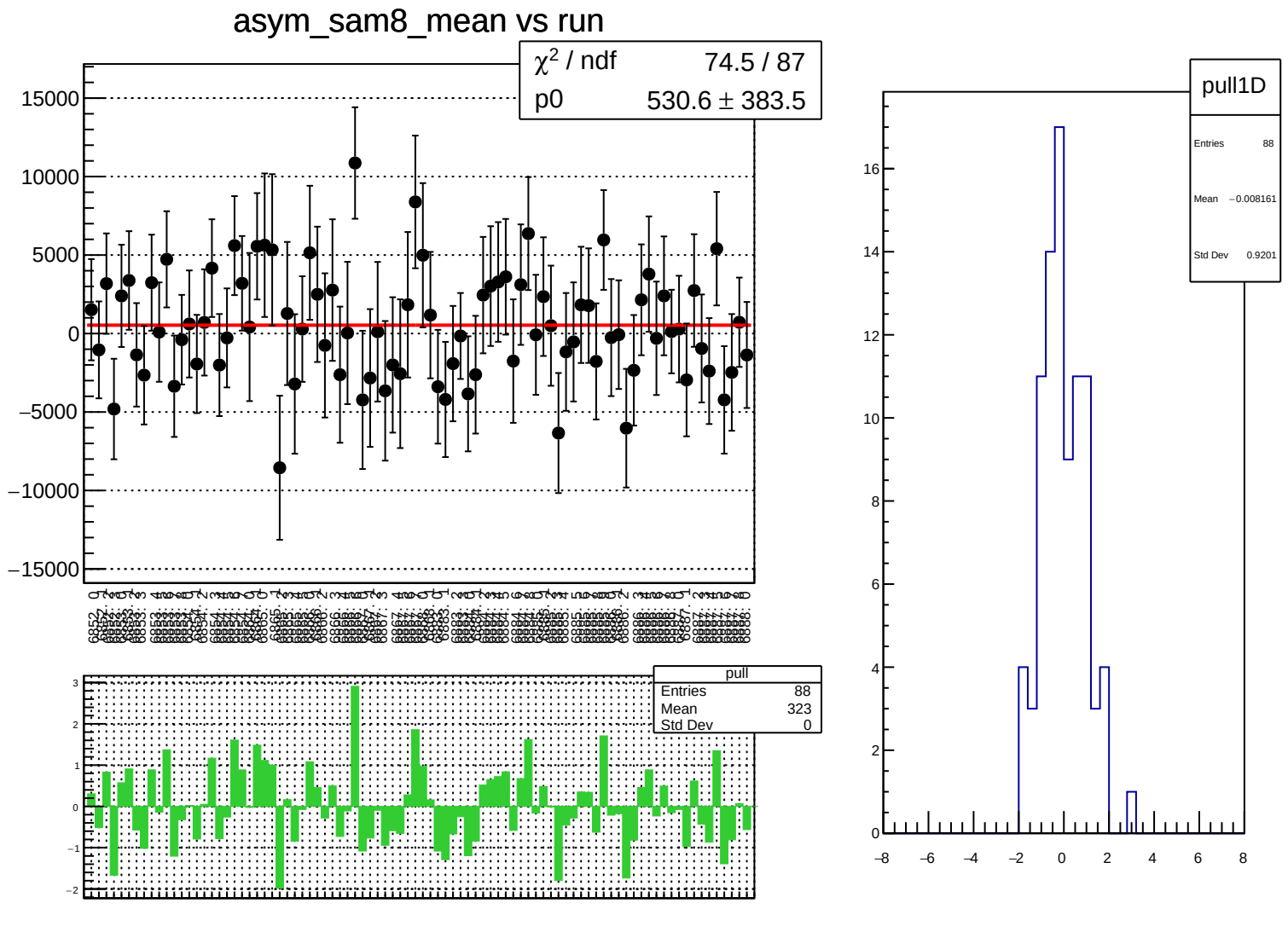

pull1D
Entries 88
Mean −0.007492
Std Dev 0.9082

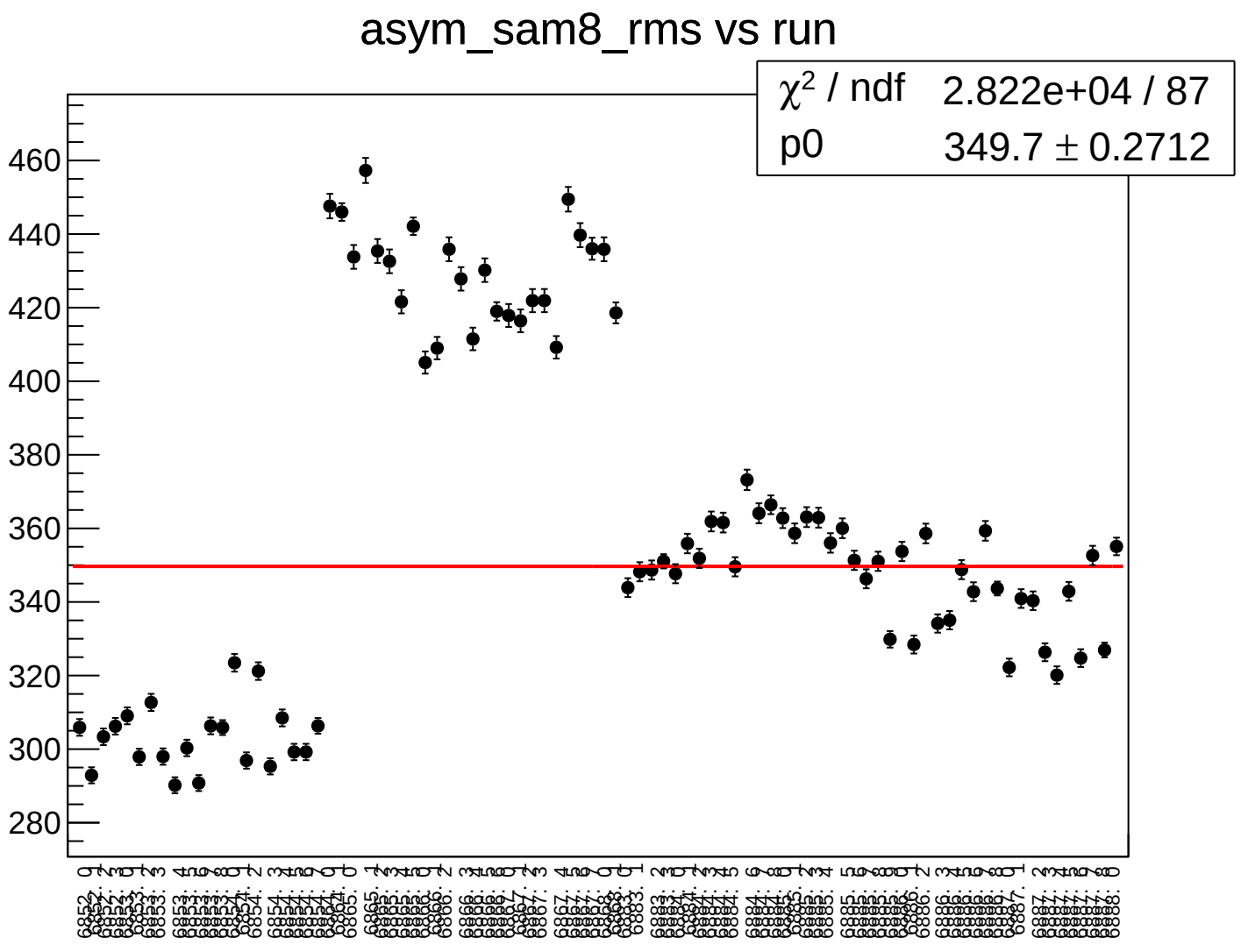

eigen_dit_asym_sam8_rms vs run
χ² / ndf 1.782e+04 / 87
p0 60.26 ± 0.04659
110
100
90
80
70
60

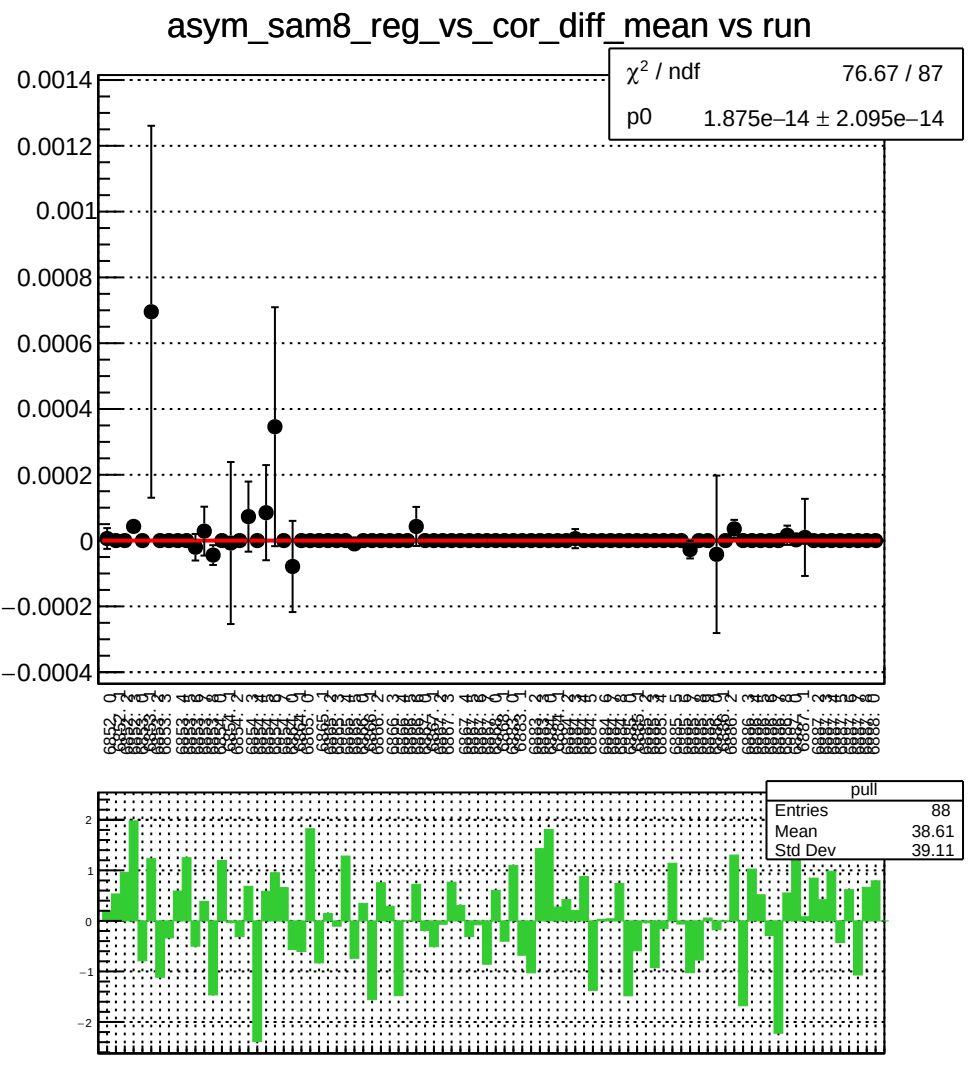

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 75.23 / 87
p0 −664.5 ± 383.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 550.3
Std Dev 0
2
1
0
−1
−2
−3

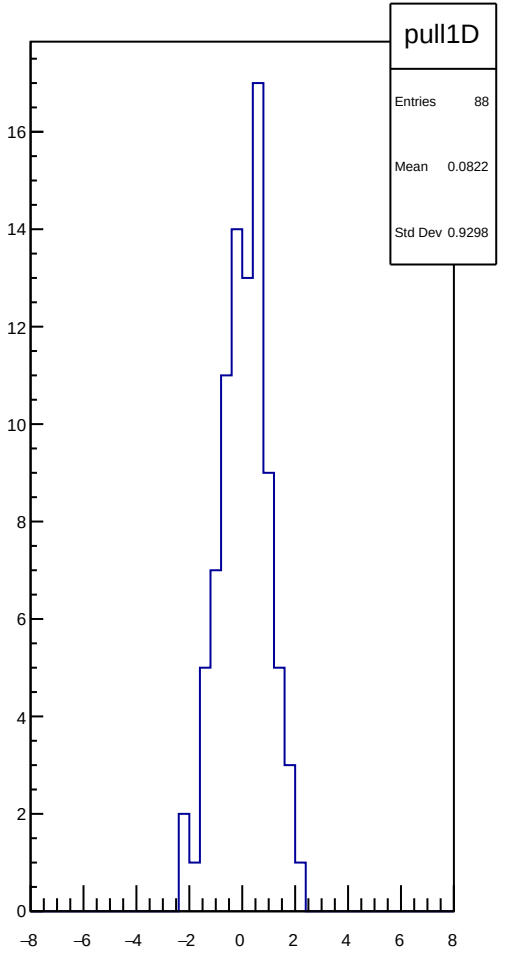

pull1D
Entries 88
Mean 0.005234
Std Dev 0.9246
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

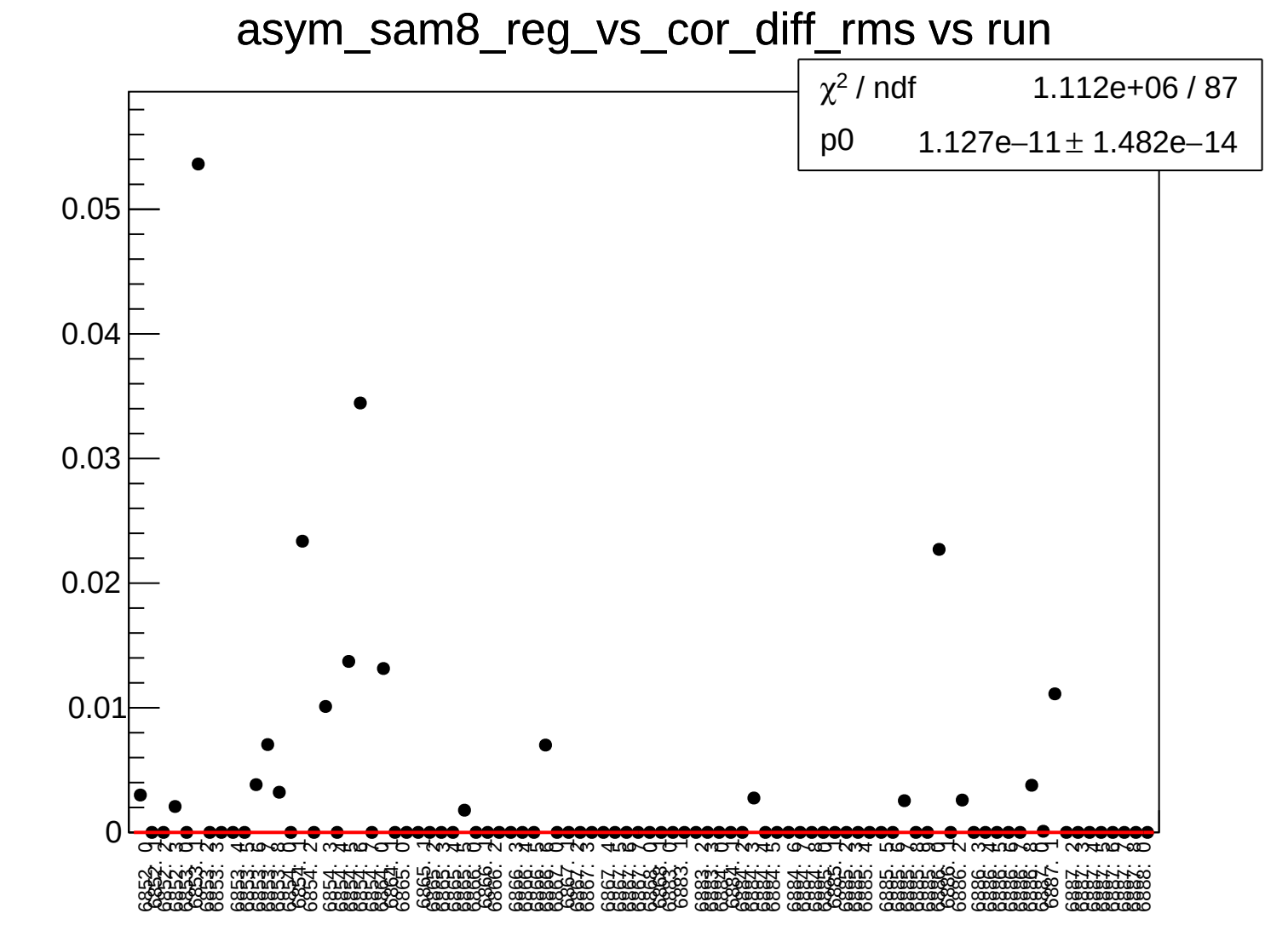

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 3.143e+04 / 87
p0 349.2 ± 0.2711
480
460
440
420
400
380
360
340
320
300
280

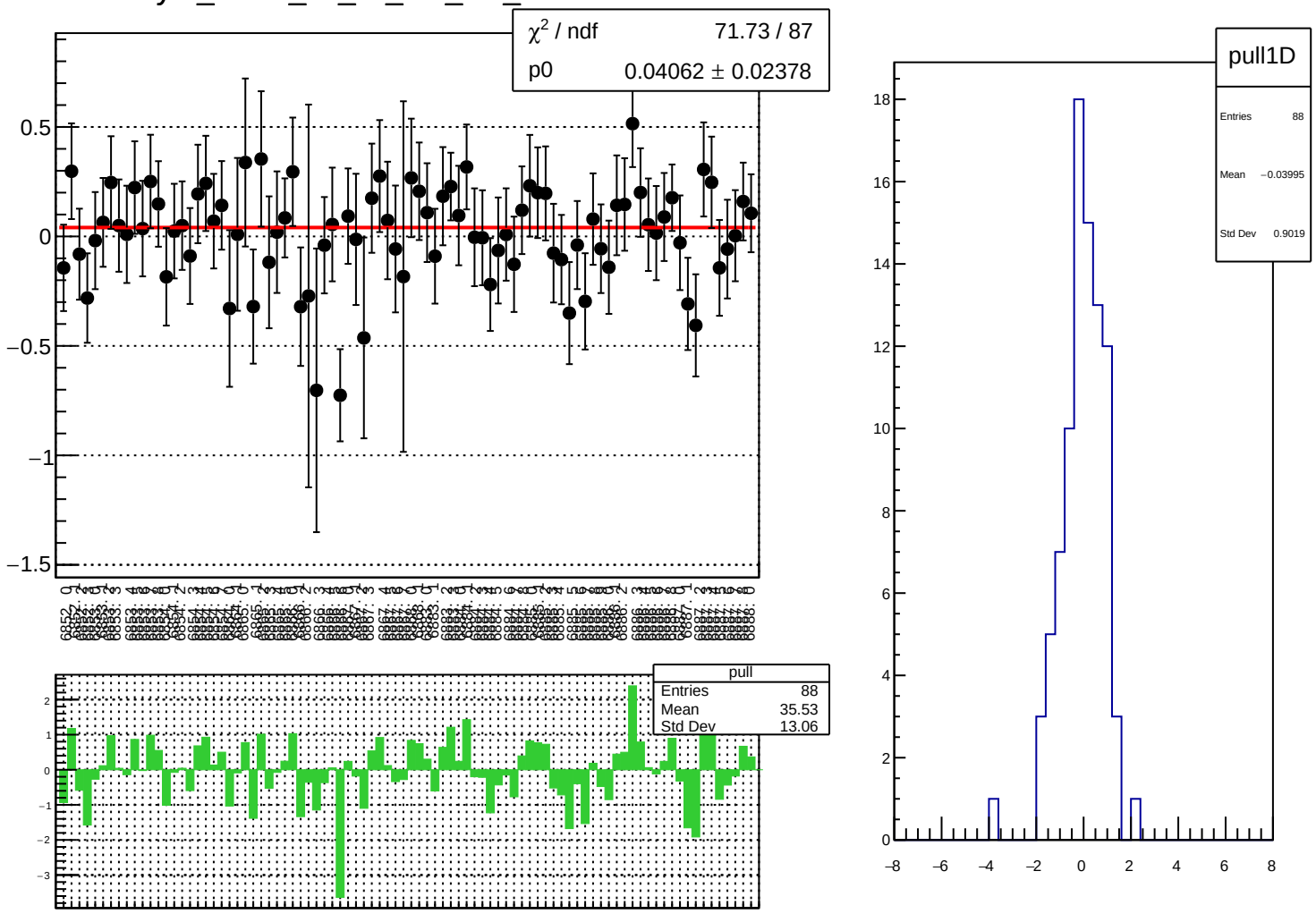

asym_sam8_mean vs run
χ² / ndf 74.5 / 87
p0 530.6 ± 383.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 323
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.008161
Std Dev 0.9201
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

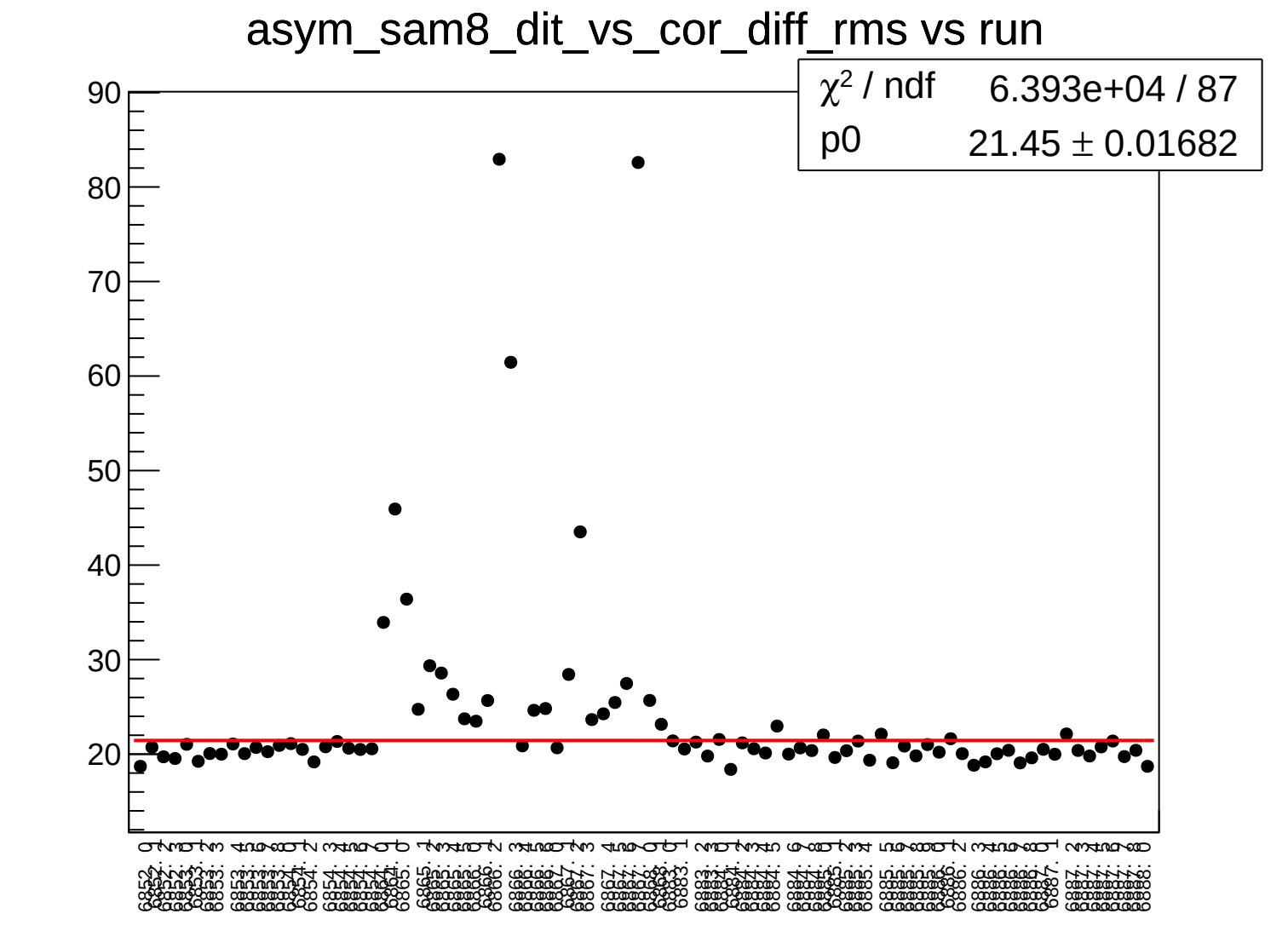

asym_sam8_rms vs run
χ² / ndf 2.822e+04 / 87
p0 349.7 ± 0.2712
460
440
420
400
380
360
340
320
300
280

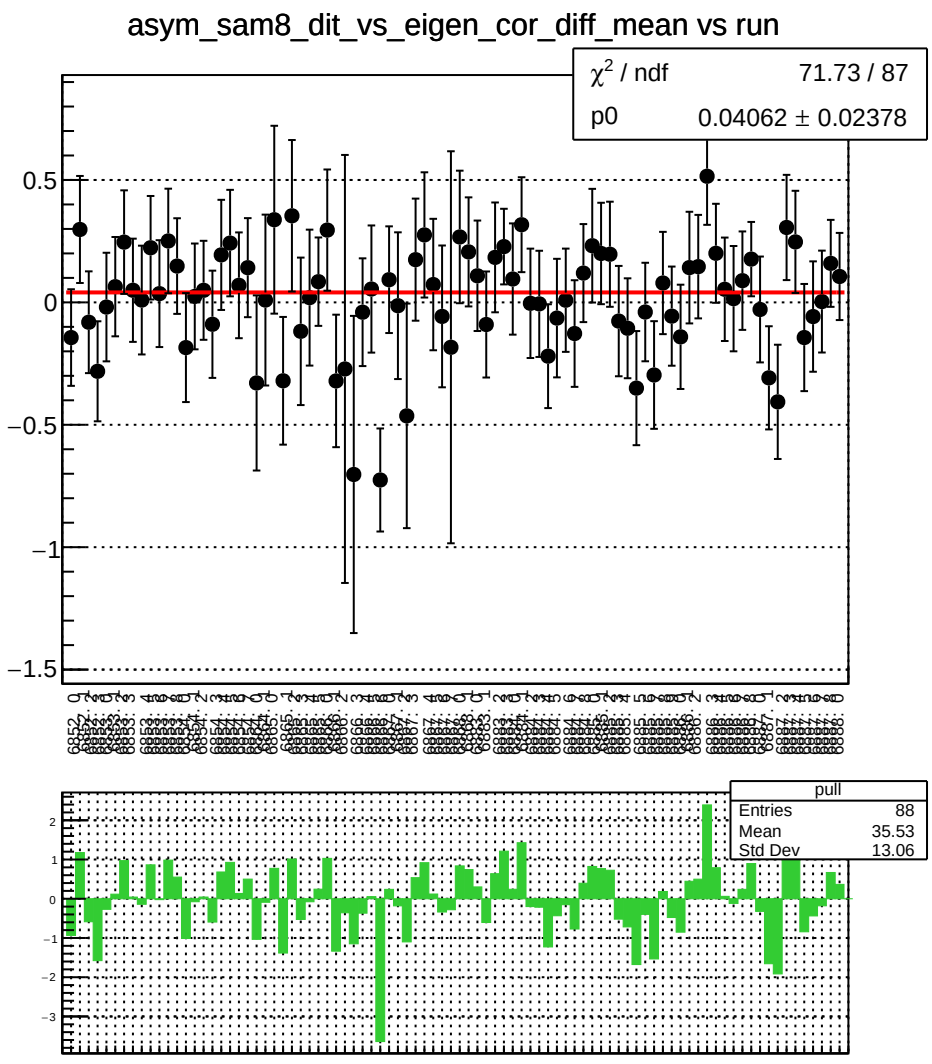

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 76.67 / 87
p0 1.875e−14 ± 2.095e−14
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 88
Mean 38.61
Std Dev 39.11
2
1
0
−1
−2

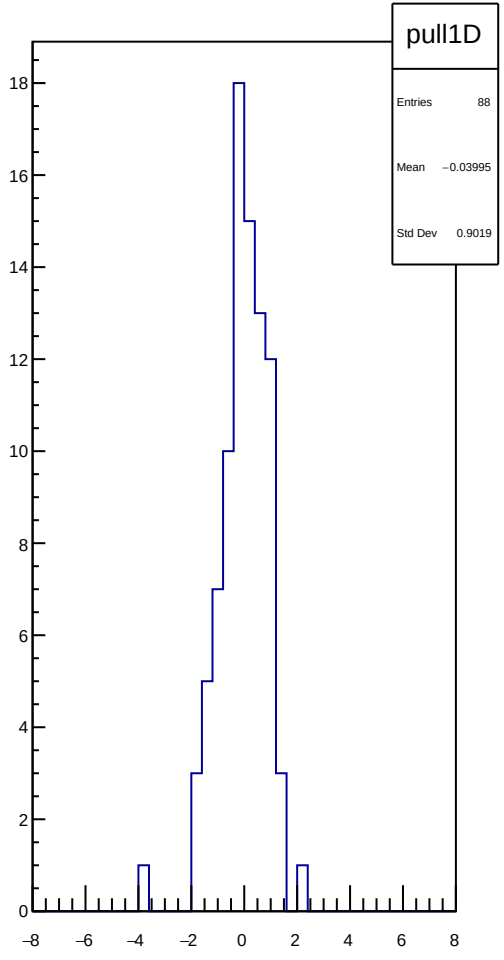

pull1D
Entries 88
Mean 0.0822
Std Dev 0.9298
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

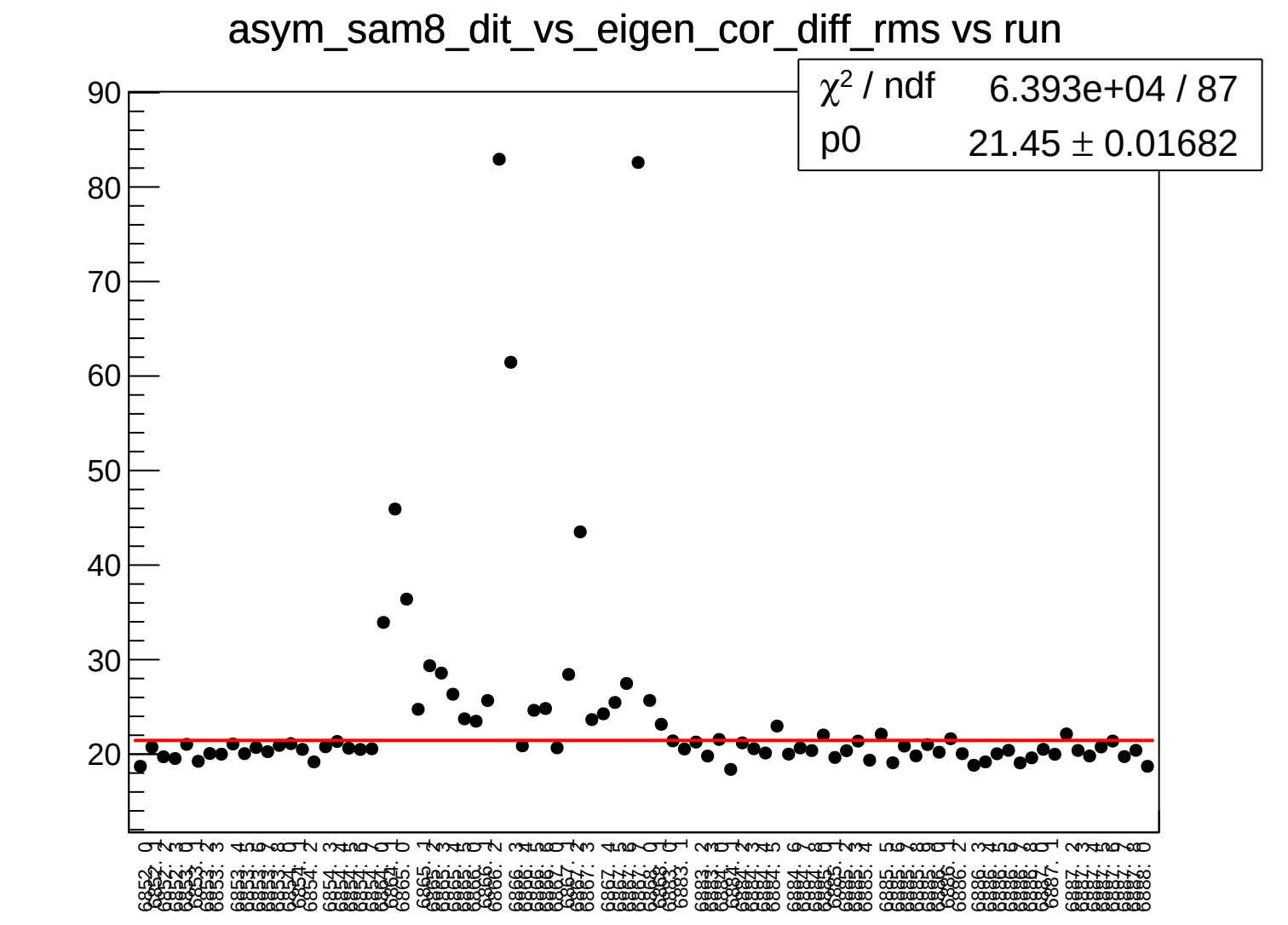

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.112e+06 / 87
p0 1.127e−11 ± 1.482e−14
0.05
0.04
0.03
0.02
0.01
0

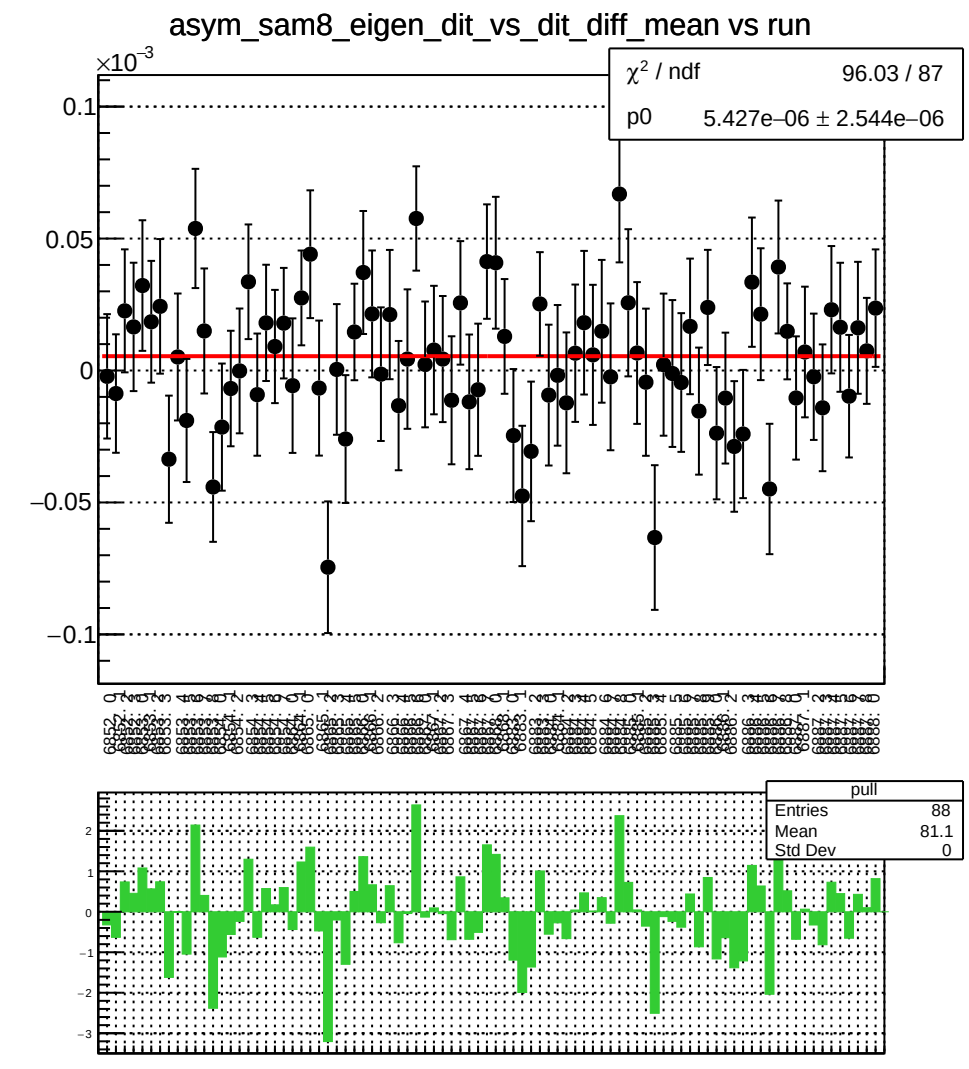

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 71.73 / 87
p0 0.04062 ± 0.02378
pull
Entries 88
Mean 35.53
Std Dev 13.06
pull1D
Entries 88
Mean −0.03995
Std Dev 0.9019

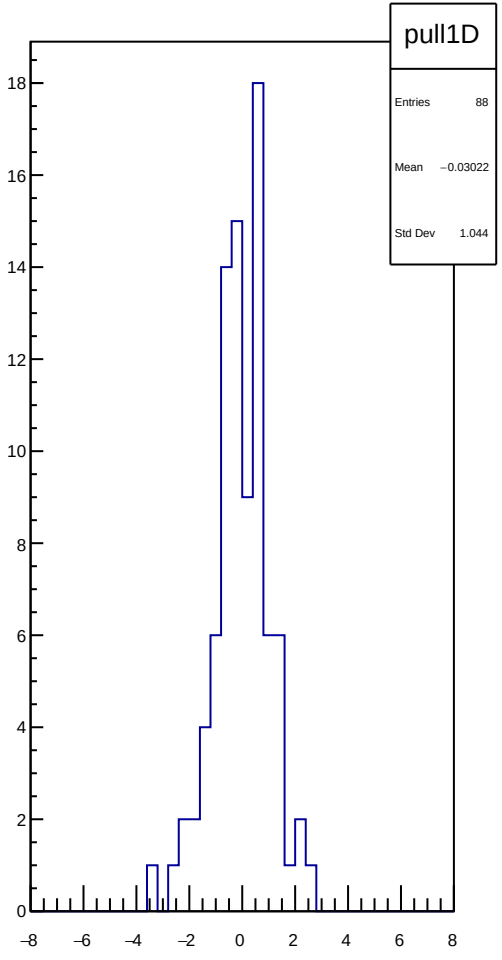

asym_sam8_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.393e+04 / 87
p0 21.45 ± 0.01682
90
80
70
60
50
40
30
20

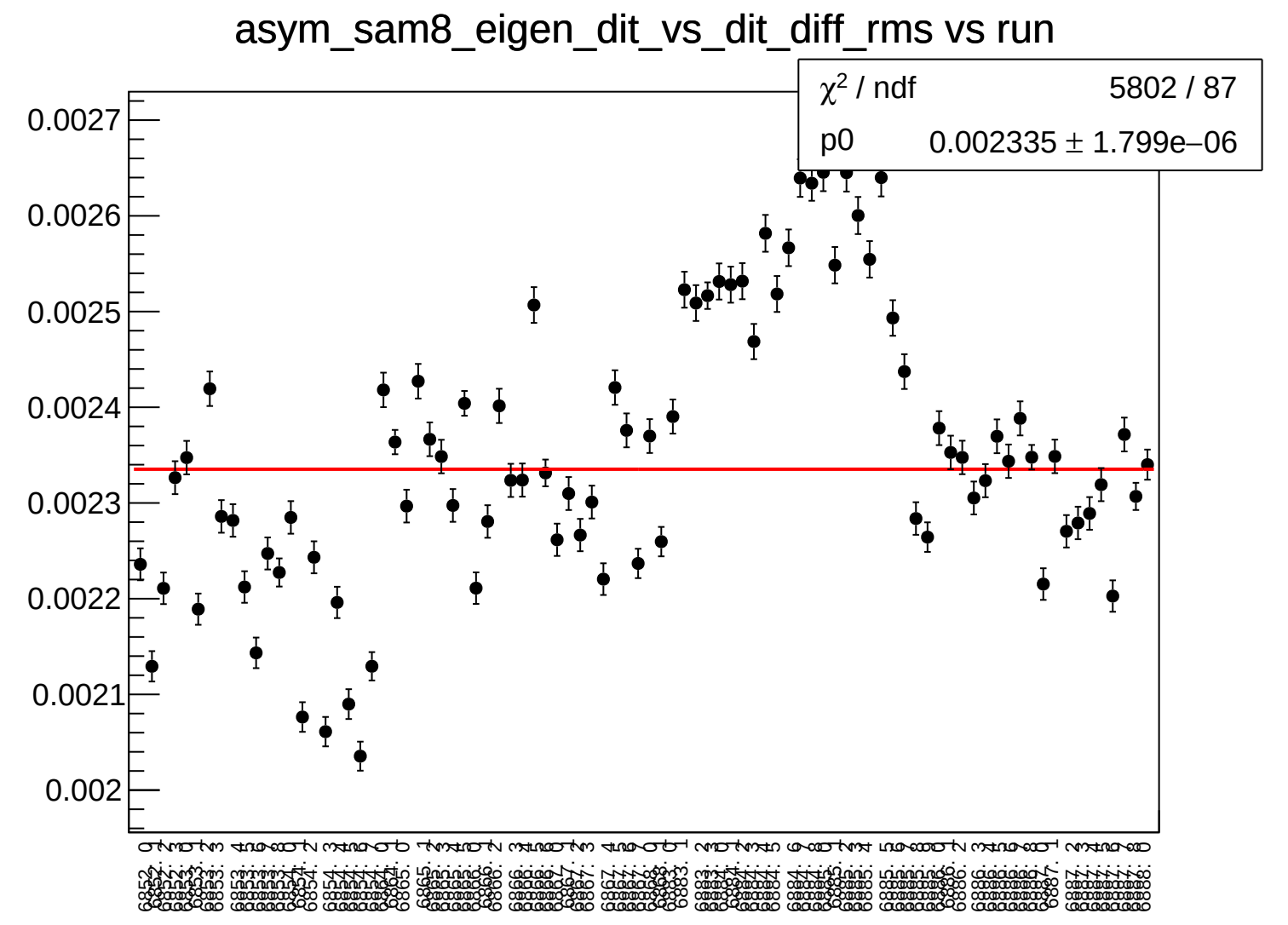

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.73 / 87
p0 0.04062 ± 0.02378
pull
Entries 88
Mean 35.53
Std Dev 13.06

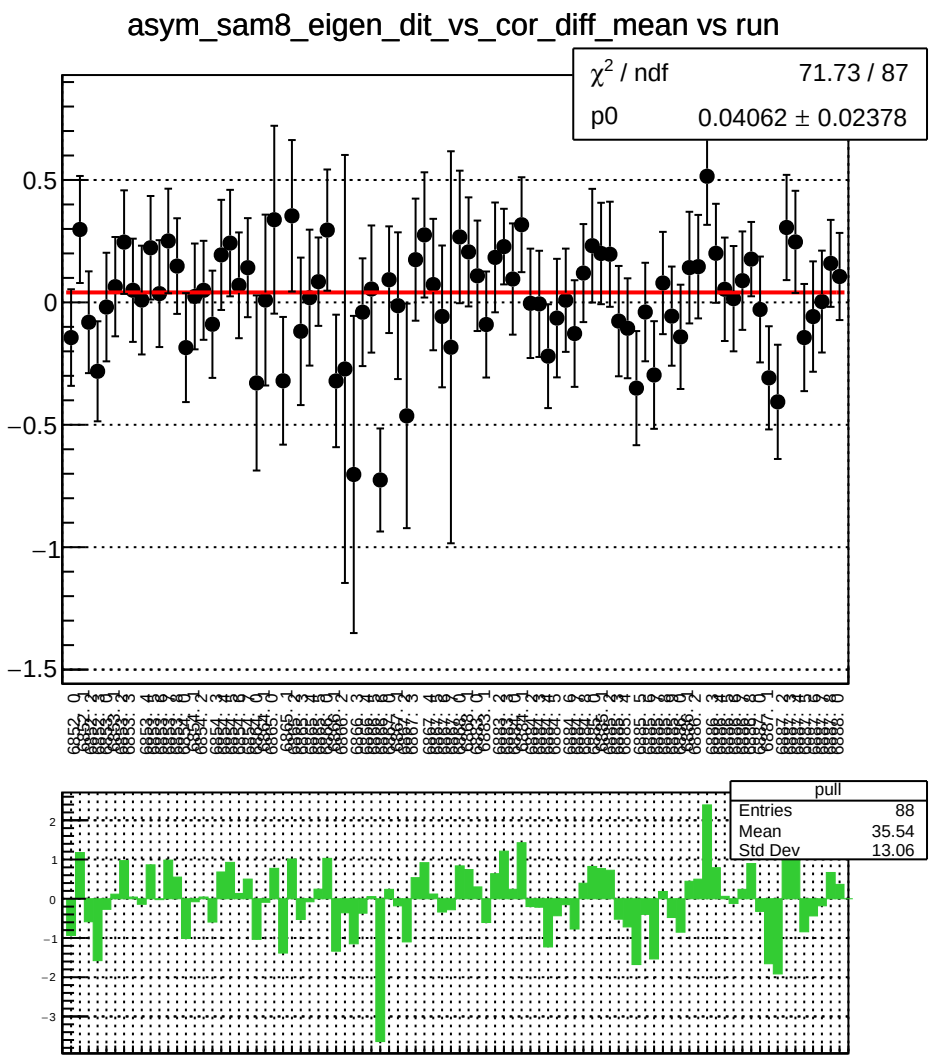

pull1D
Entries 88
Mean −0.03995
Std Dev 0.9019

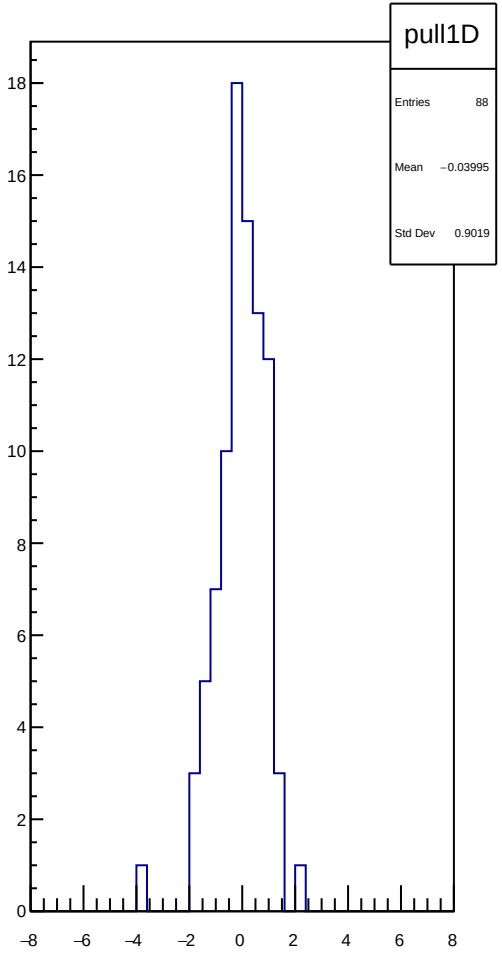

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.393e+04 / 87
p0 21.45 ± 0.01682
90
80
70
60
50
40
30
20

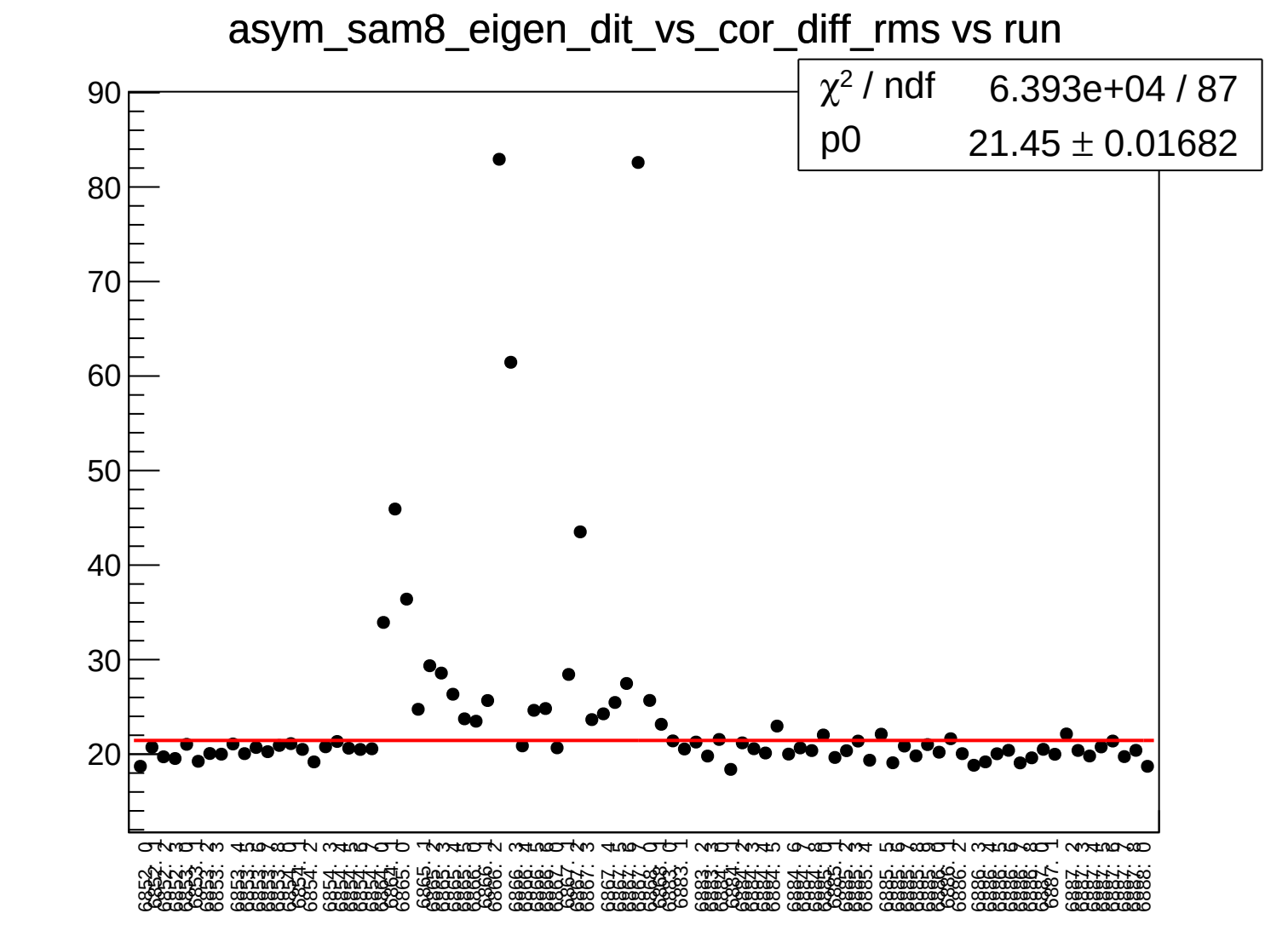

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.03 / 87
p0 5.427e−06 ± 2.544e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 81.1
Std Dev 0
2
1
0
−1
−2
−3

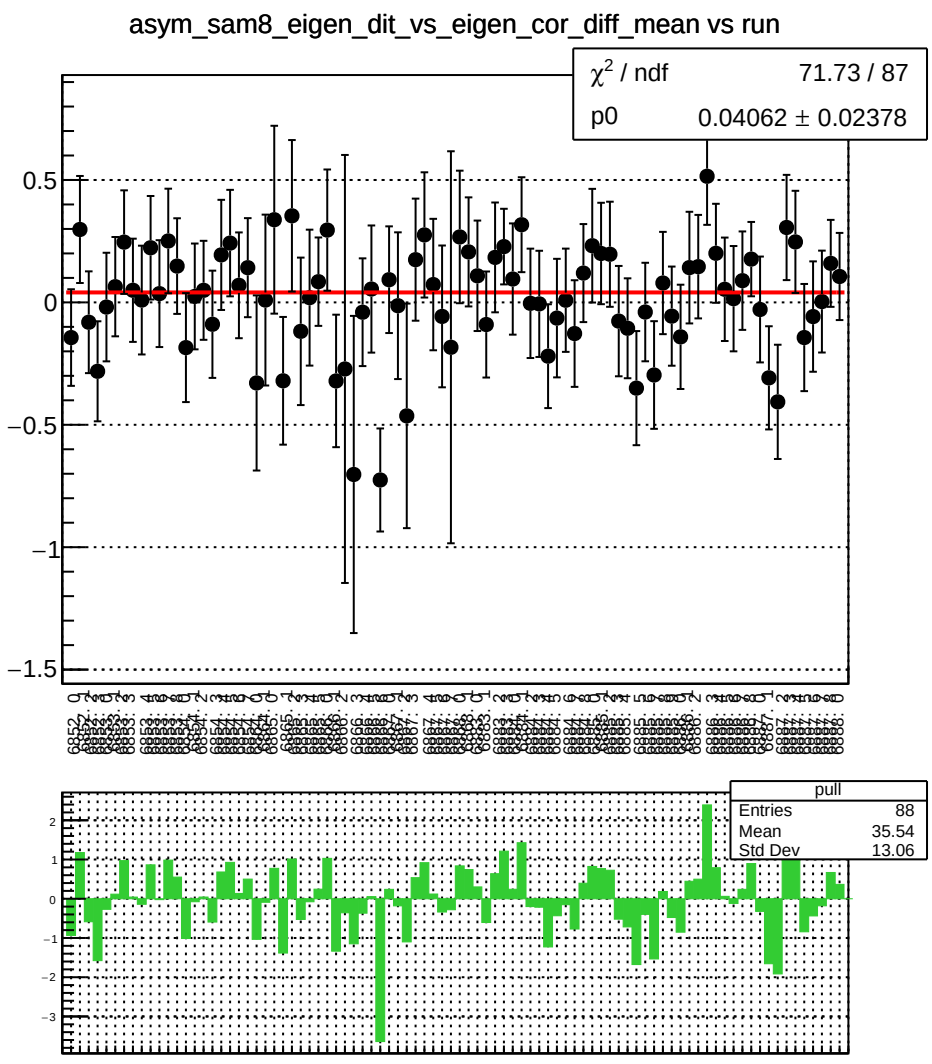

pull1D
Entries 88
Mean −0.03022
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

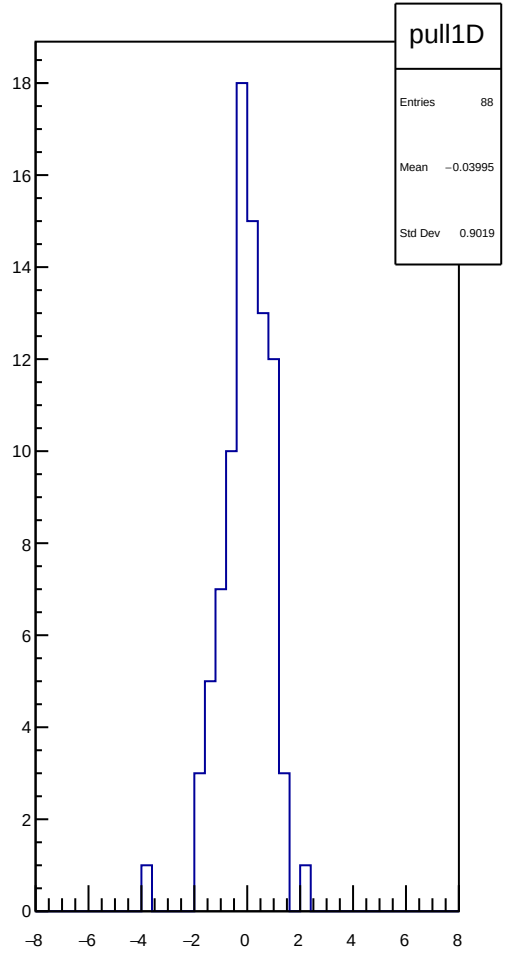

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5802 / 87
p0 0.002335 ± 1.799e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

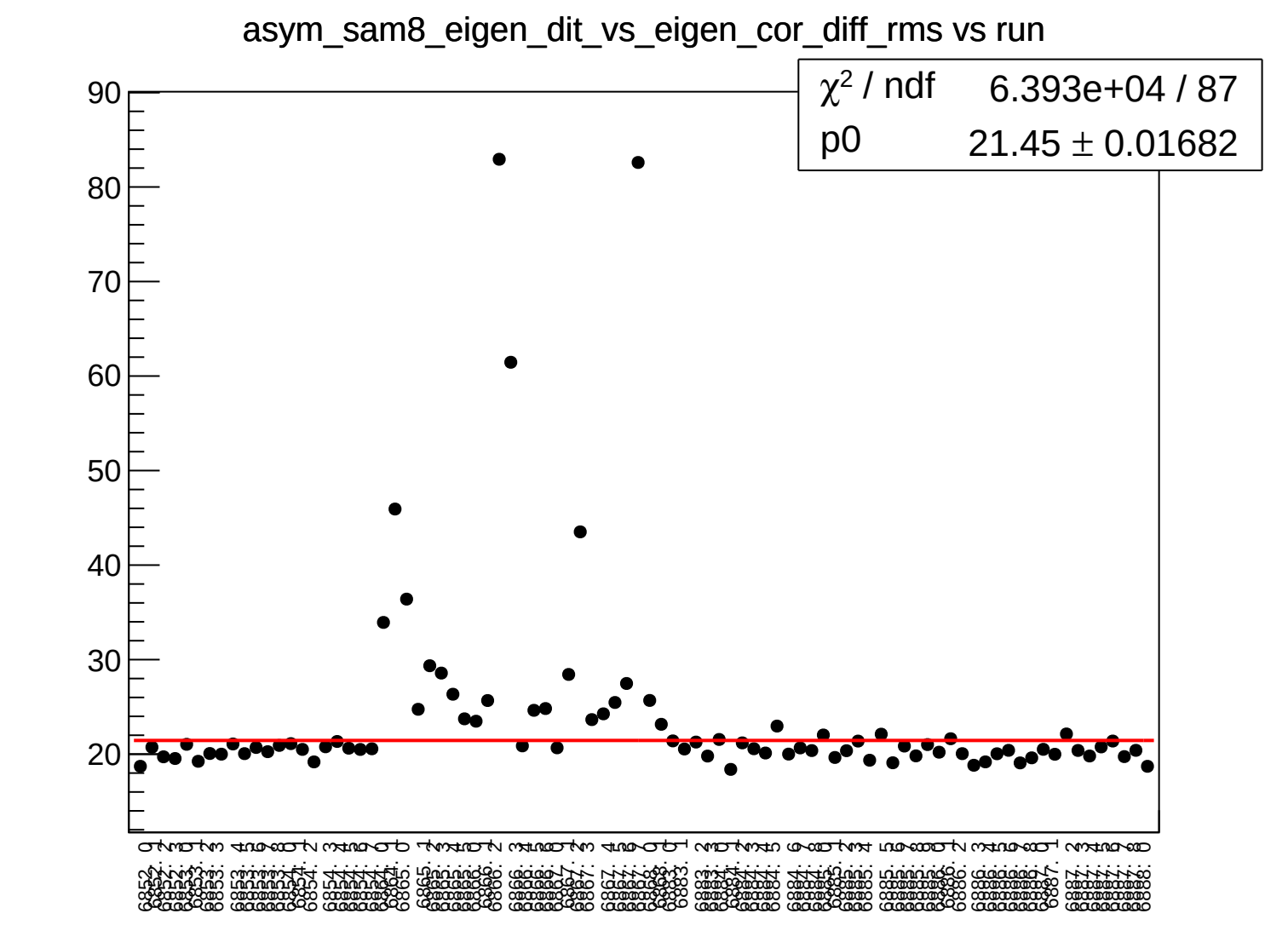

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.73 / 87
p0 0.04062 ± 0.02378
pull
Entries 88
Mean 35.54
Std Dev 13.06

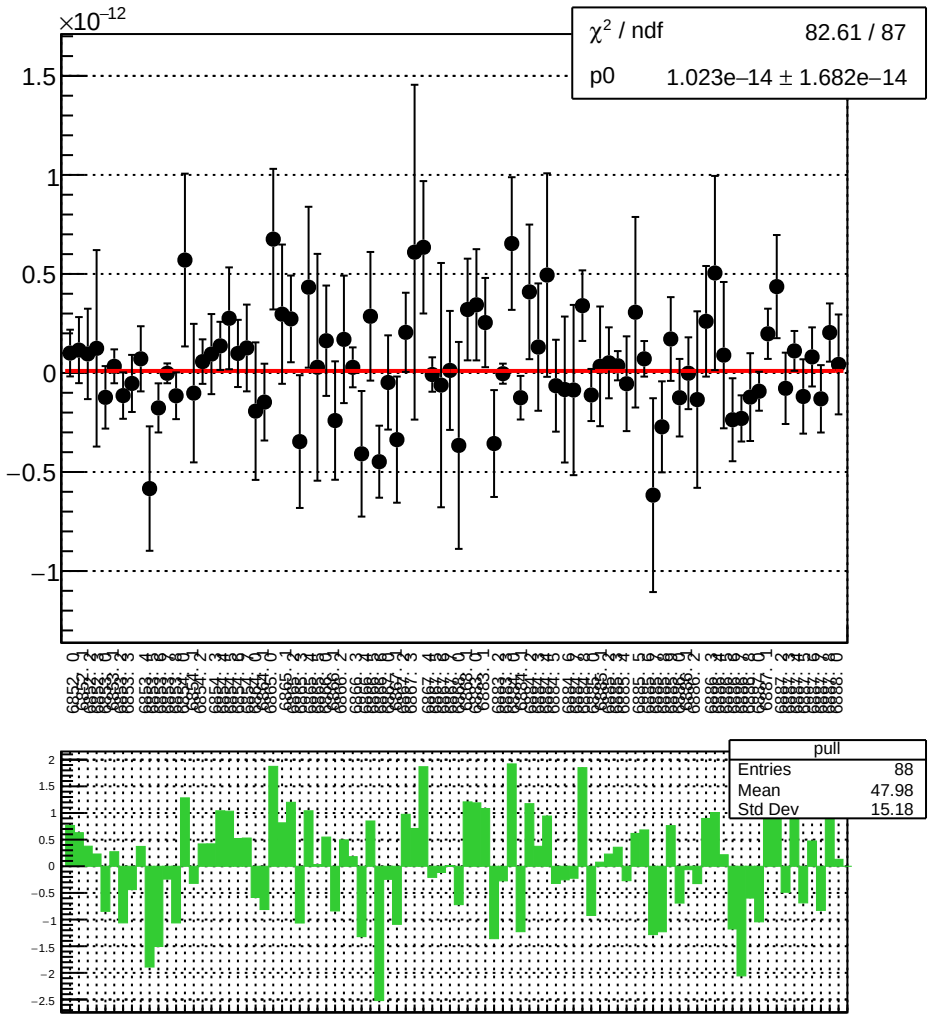

pull1D
Entries 88
Mean −0.03995
Std Dev 0.9019

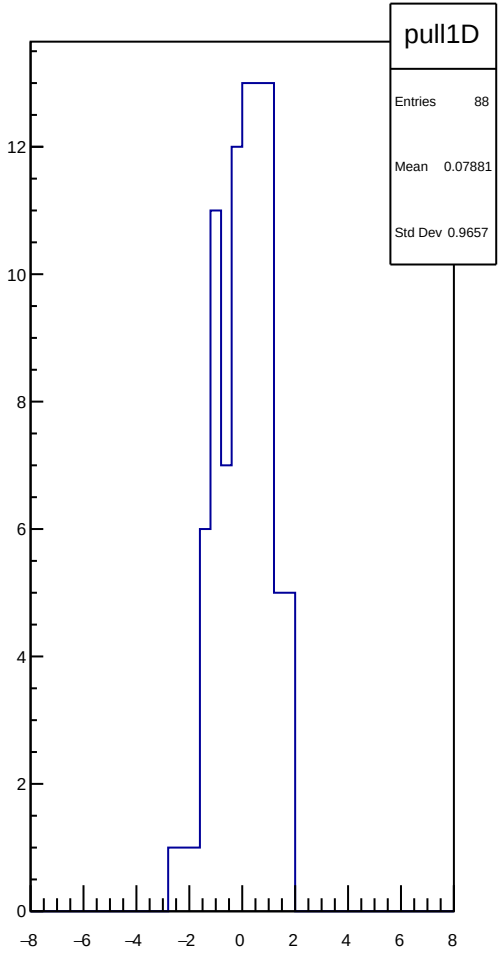

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.393e+04 / 87
p0 21.45 ± 0.01682
90
80
70
60
50
40
30
20

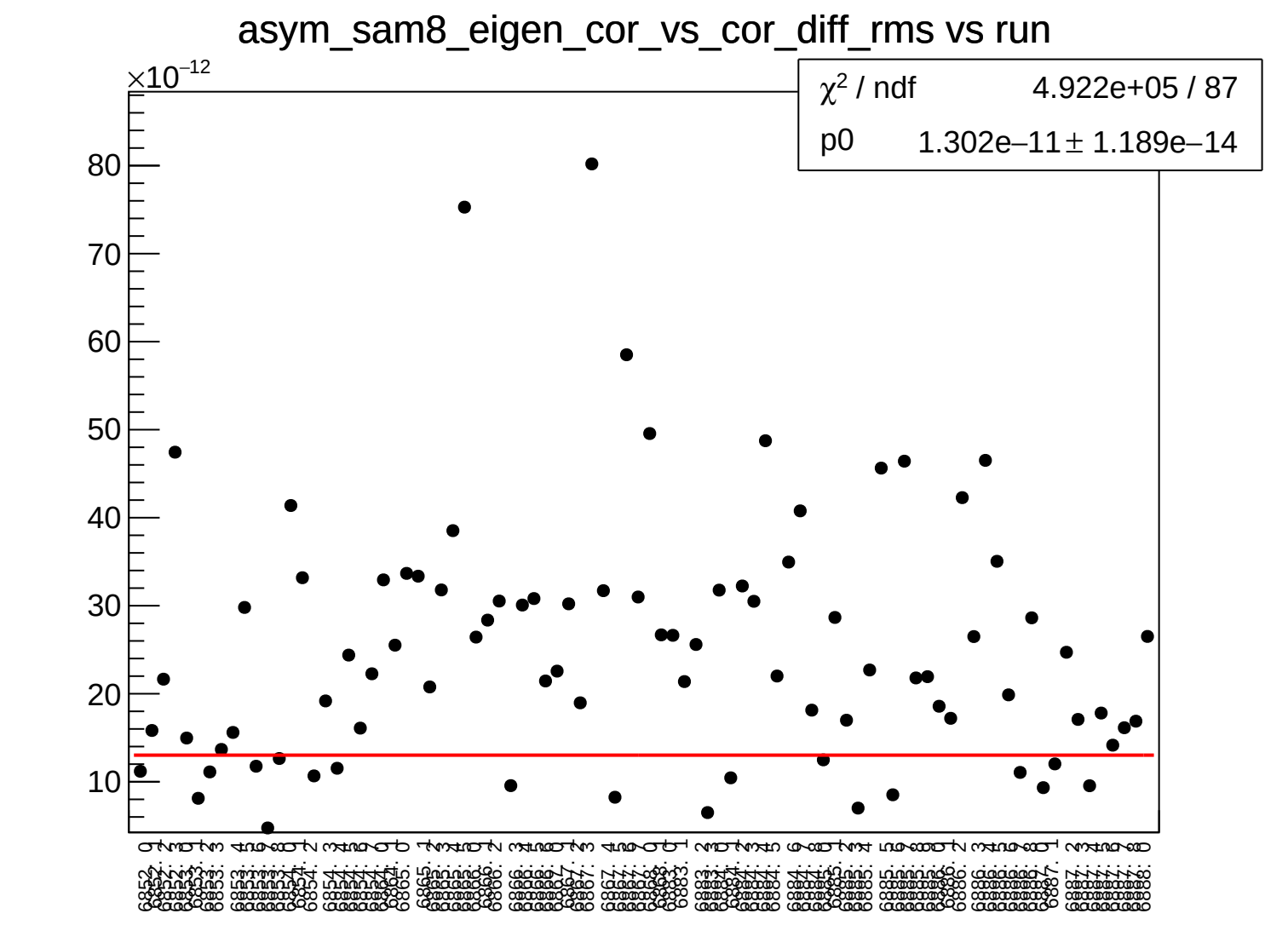

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.73 / 87
p0 0.04062 ± 0.02378
0.5
0
−0.5
−1
−1.5
pull
Entries 88
Mean 35.54
Std Dev 13.06
2
1
0
−1
−2
−3

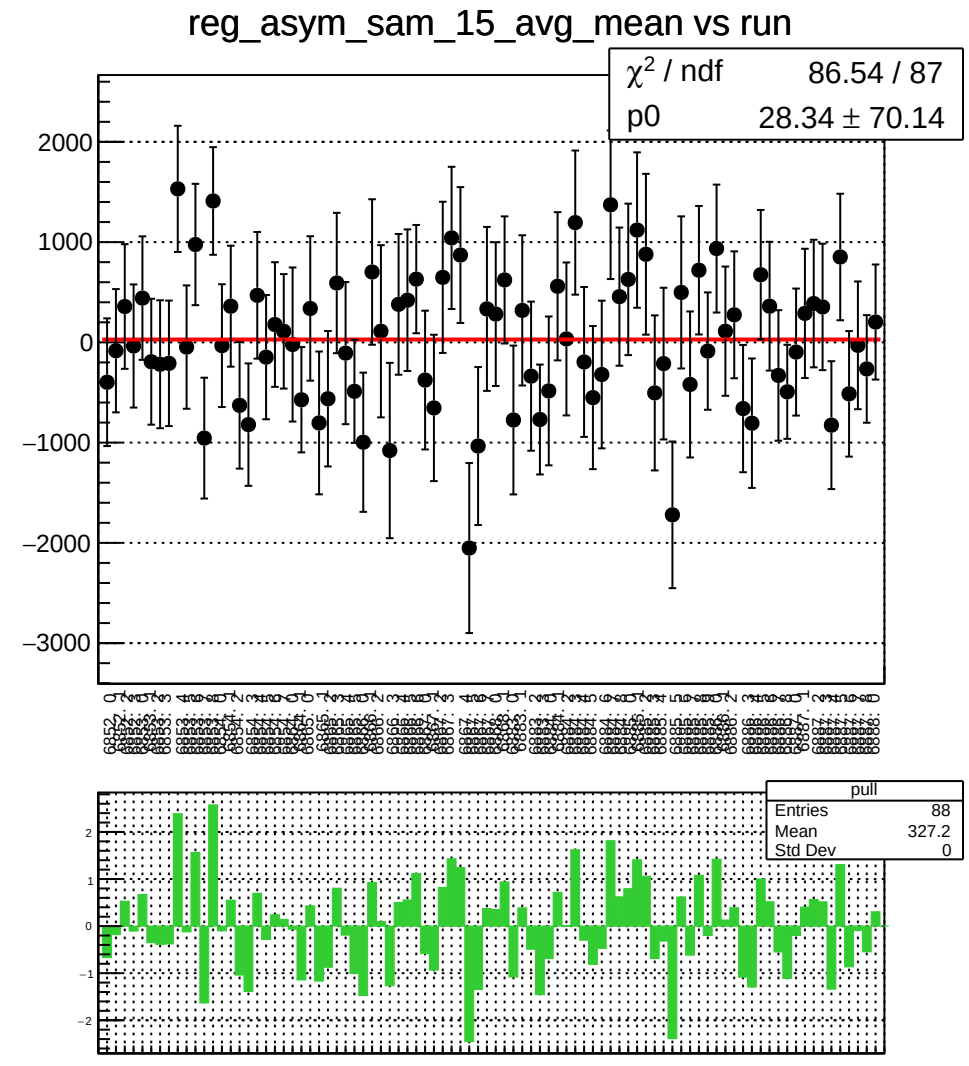

pull1D
Entries 88
Mean −0.03995
Std Dev 0.9019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

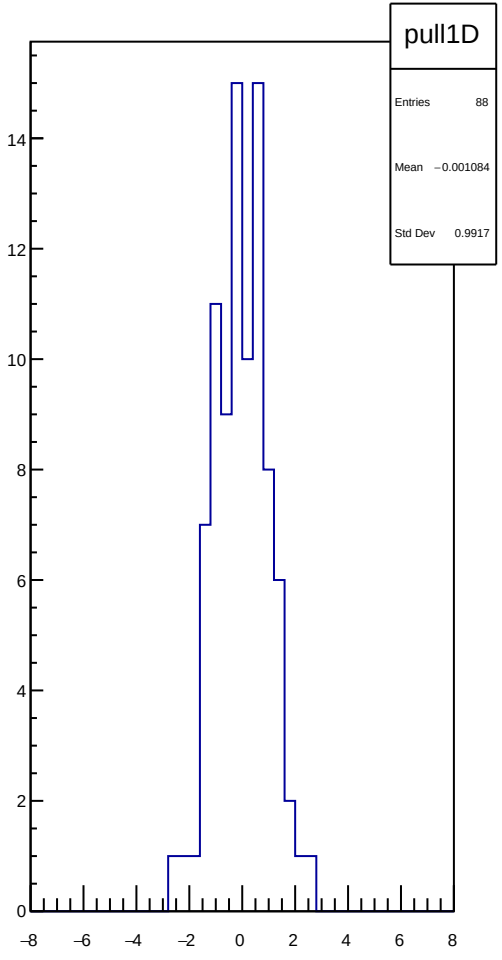

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.393e+04 / 87
p0 21.45 ± 0.01682
90
80
70
60
50
40
30
20

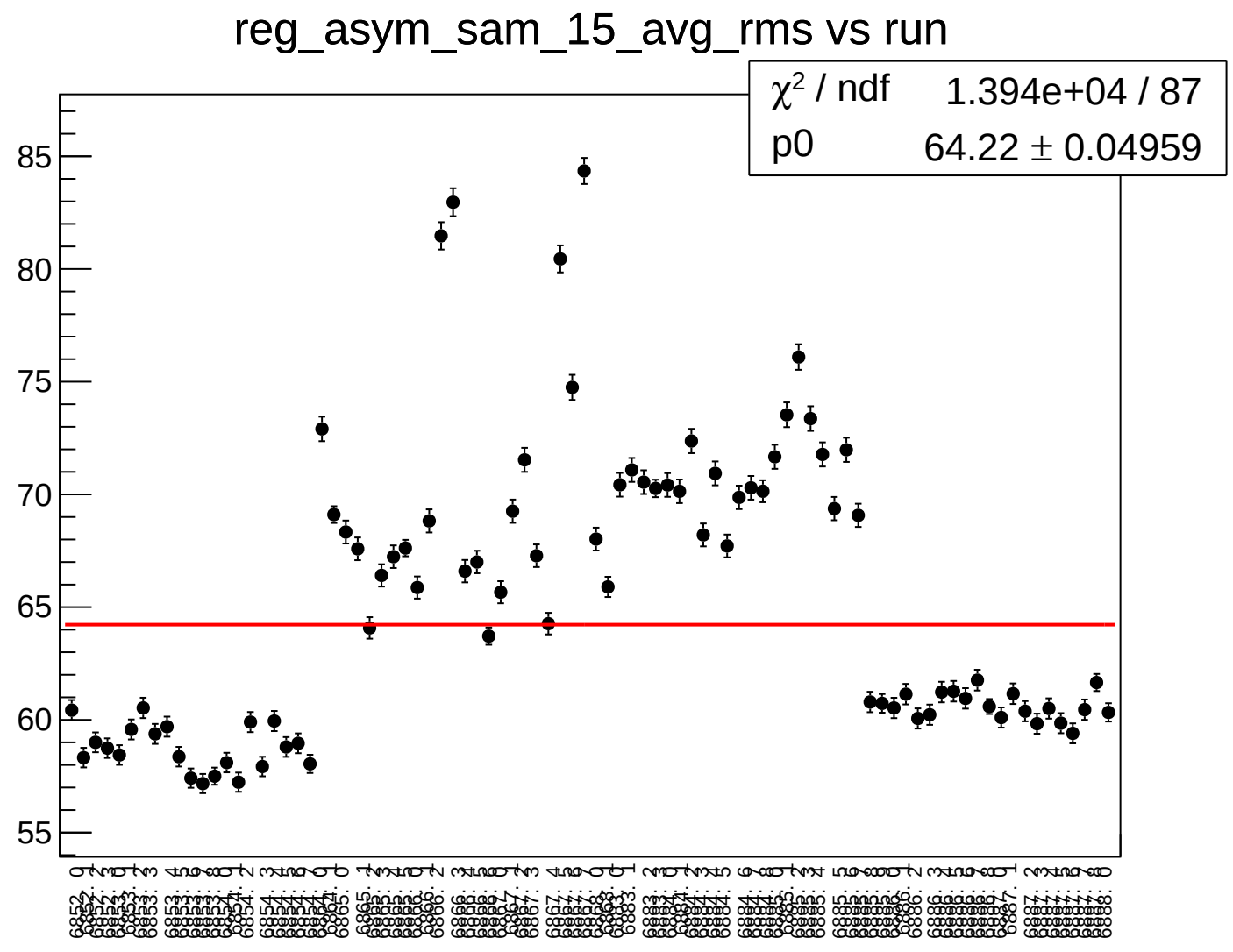

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.61 / 87
p0 1.023e−14 ± 1.682e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 88
Mean 47.98
Std Dev 15.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

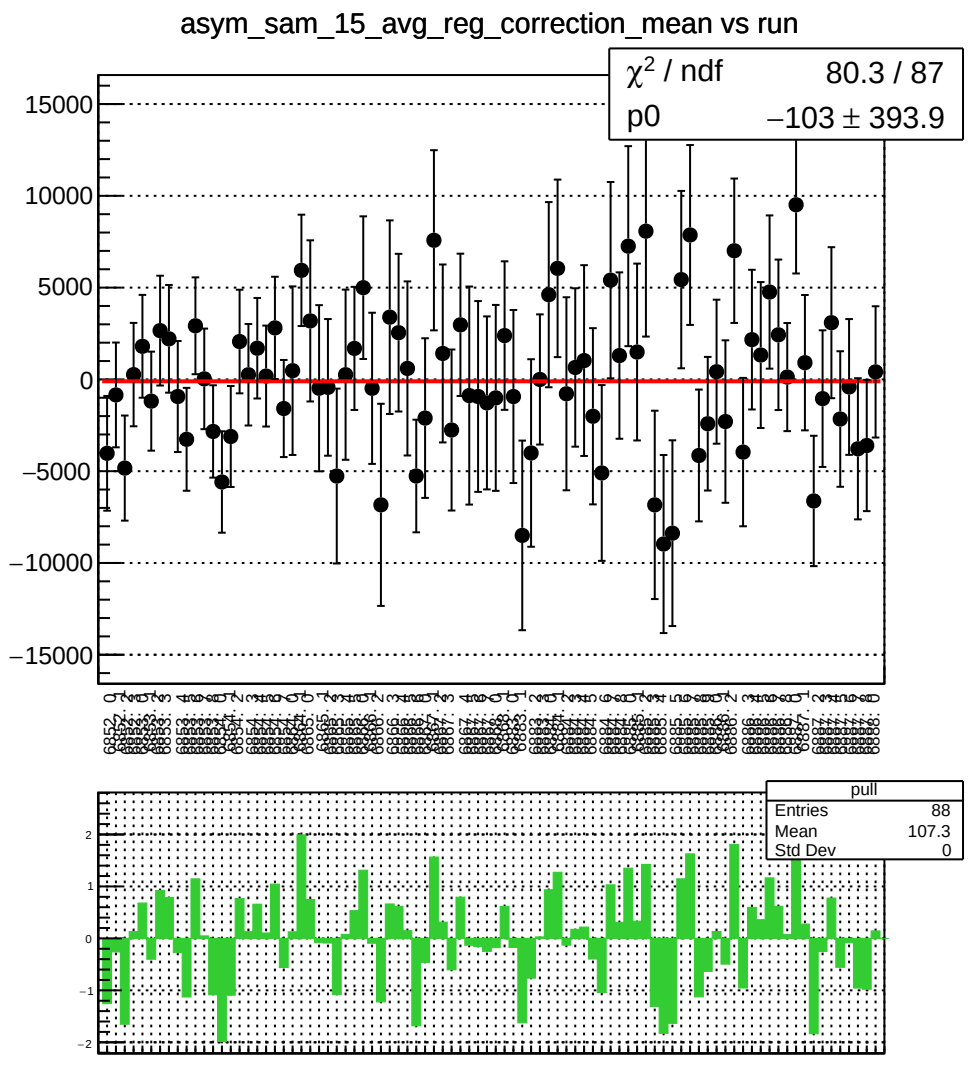

pull1D
Entries 88
Mean 0.07881
Std Dev 0.9657
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

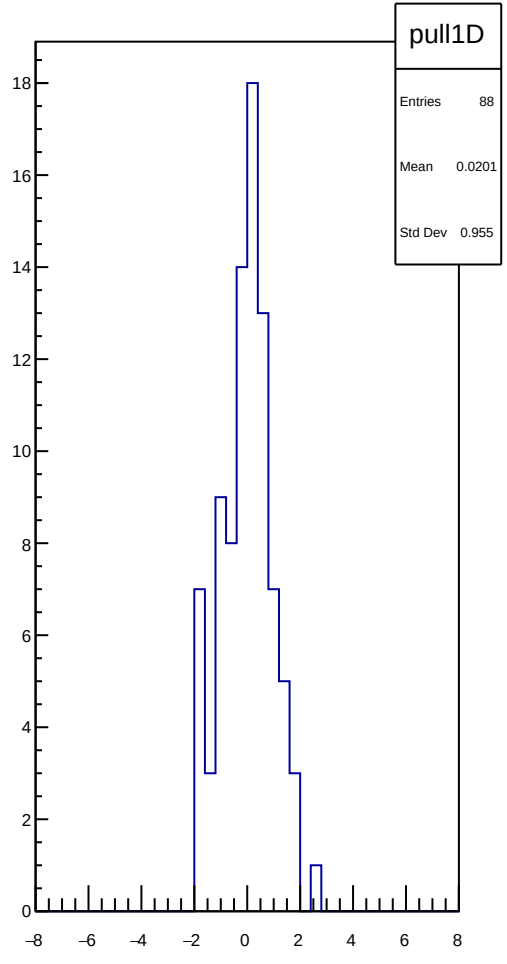

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.922e+05 / 87
p0 1.302e−11 ± 1.189e−14
80
70
60
50
40
30
20
10

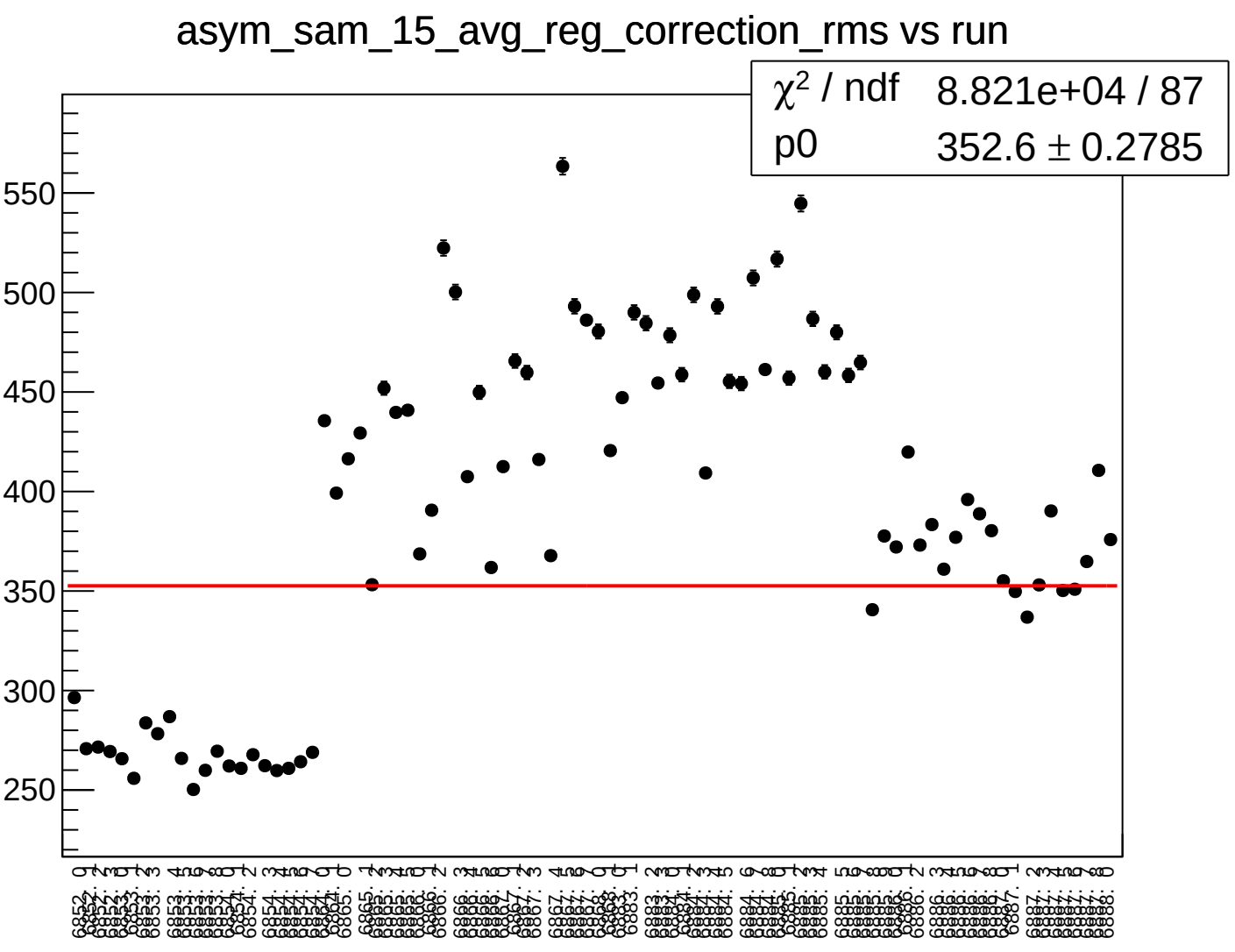

reg_asym_sam_15_avg_mean vs run
χ² / ndf 86.54 / 87
p0 28.34 ± 70.14
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 327.2
Std Dev 0
2
1
0
−1
−2

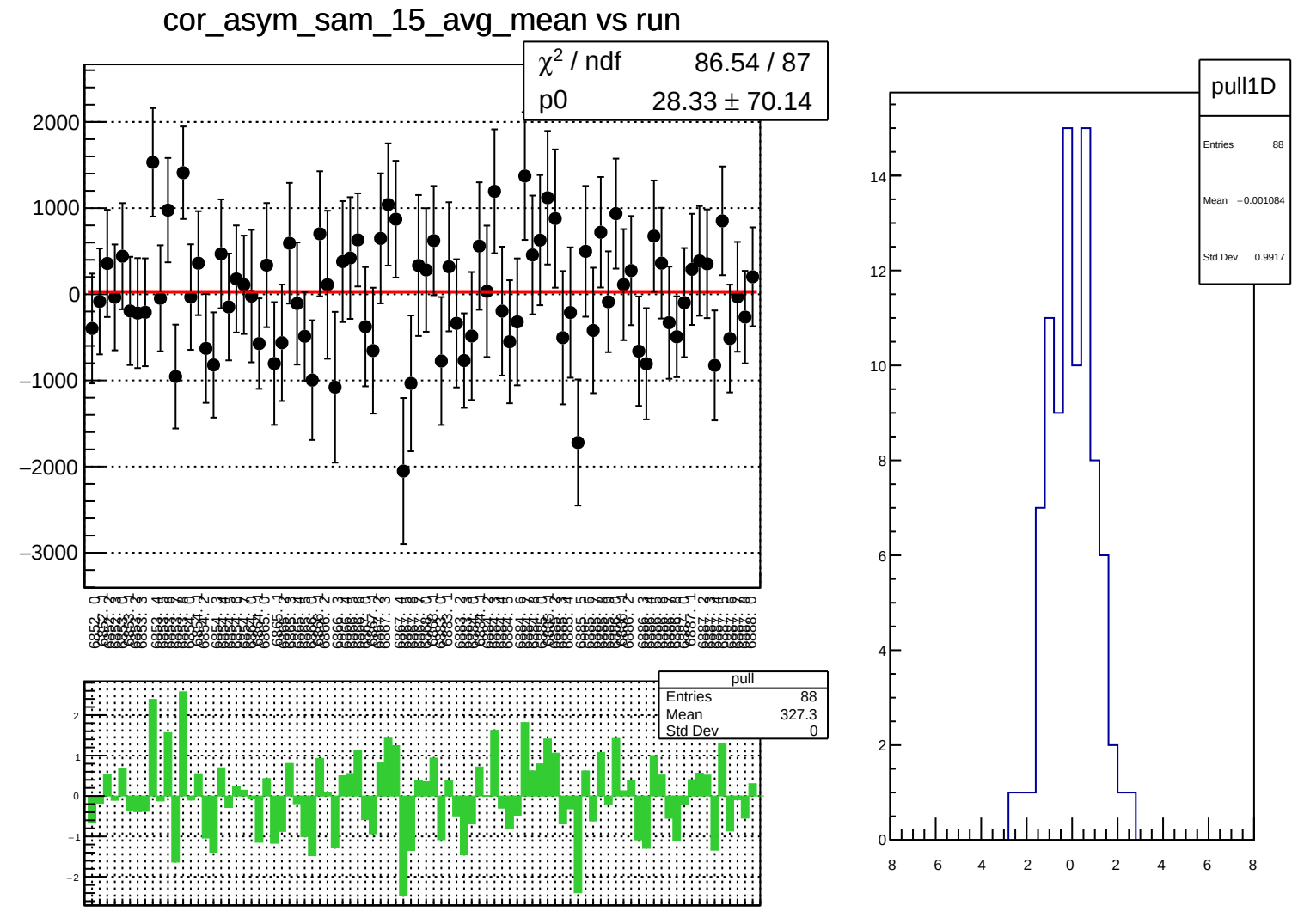

pull1D
Entries 88
Mean −0.001084
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

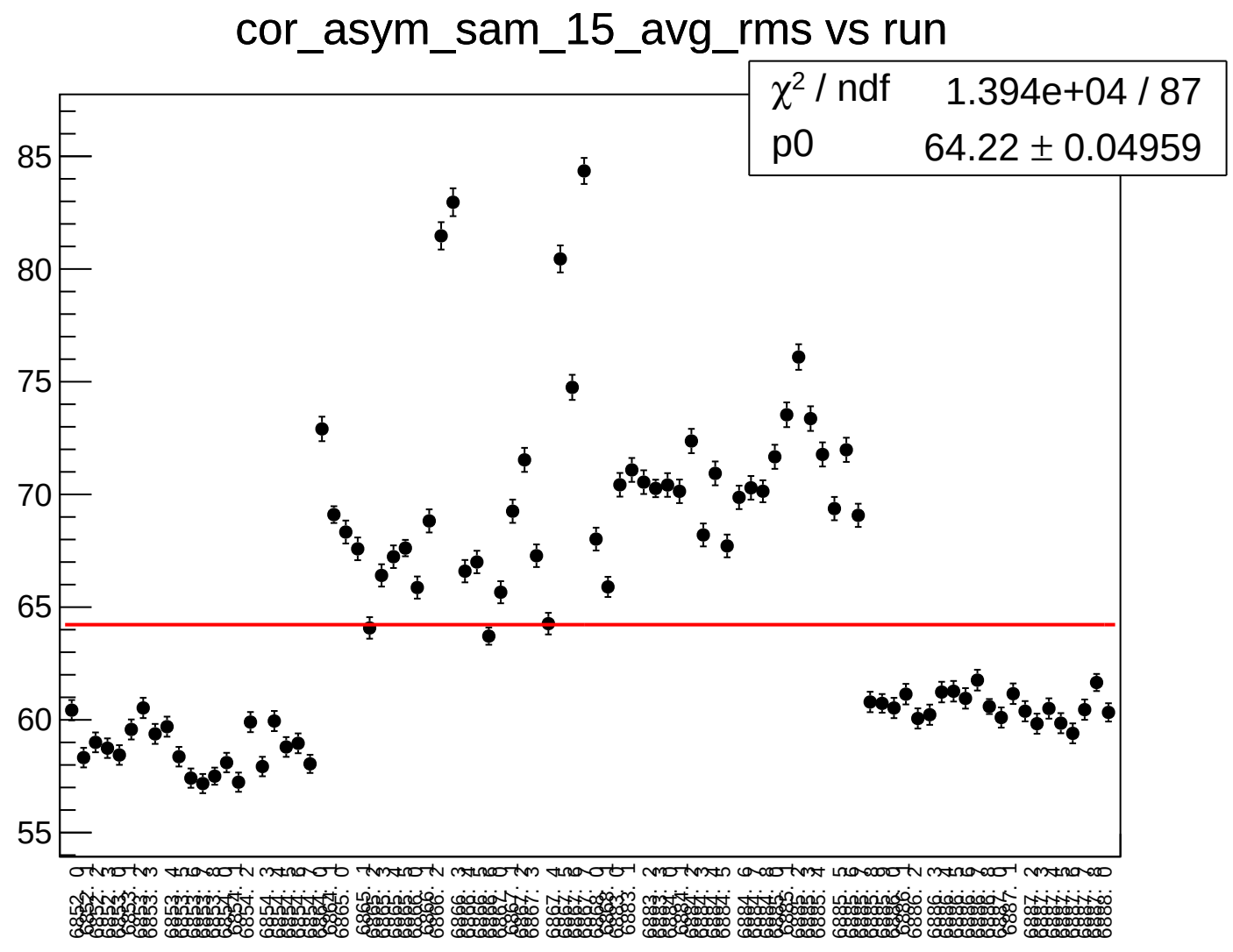

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1.394e+04 / 87
p0 64.22 ± 0.04959
85
80
75
70
65
60
55

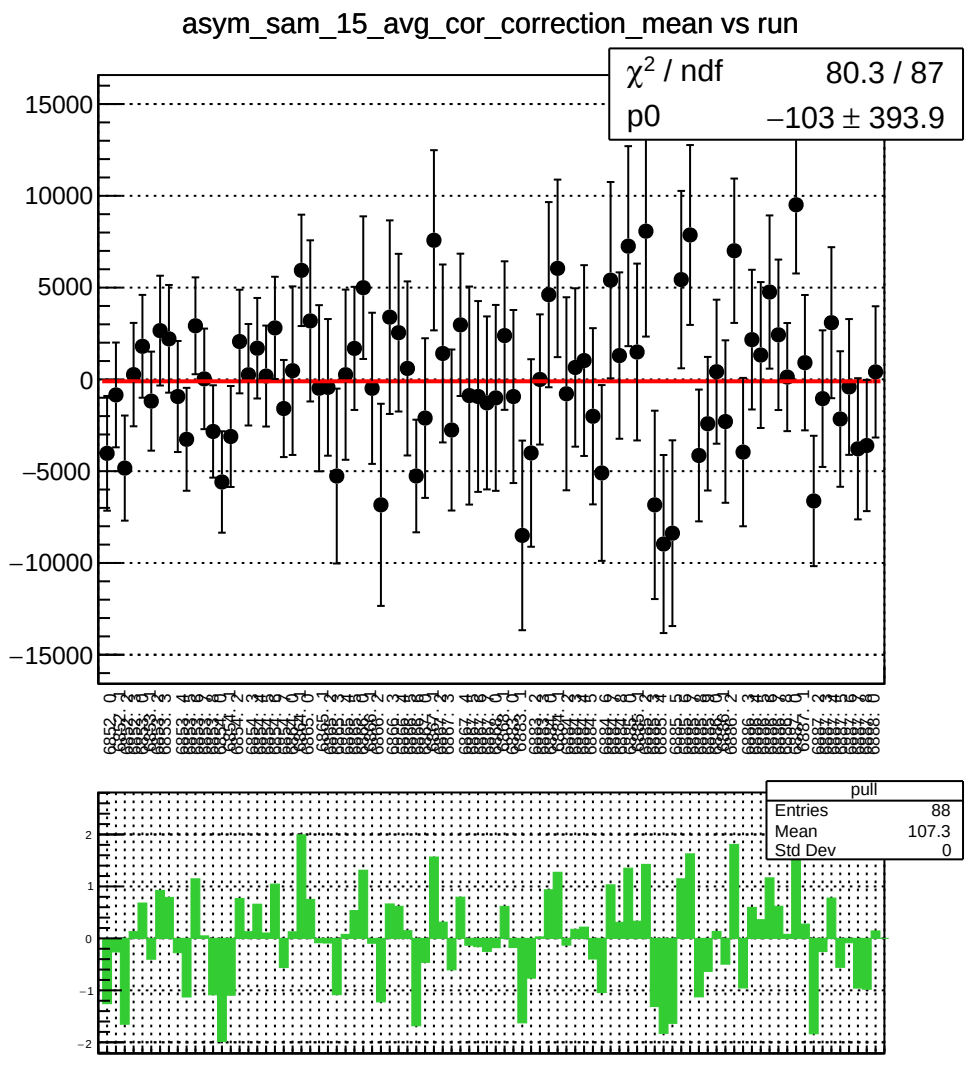

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 80.3 / 87
p0 −103 ± 393.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 107.3
Std Dev 0
2
1
0
−1
−2

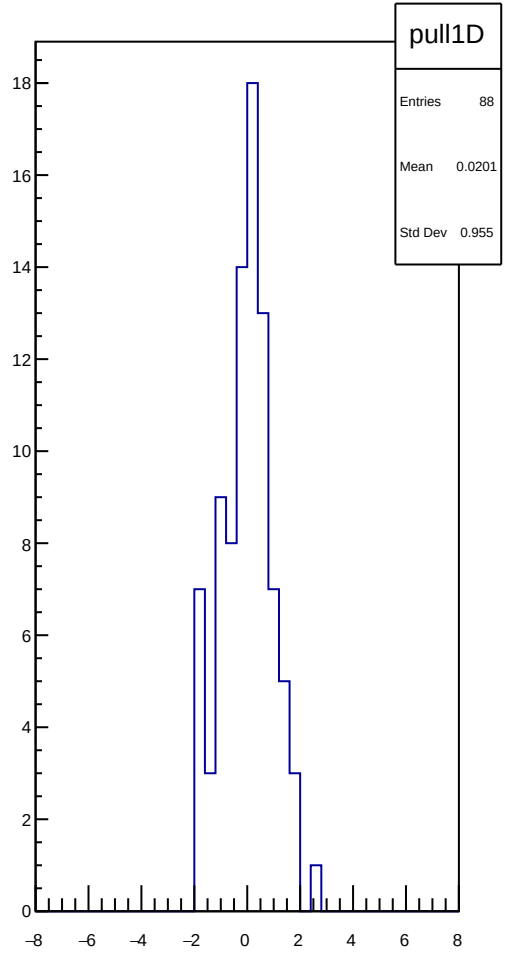

pull1D
Entries 88
Mean 0.0201
Std Dev 0.955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

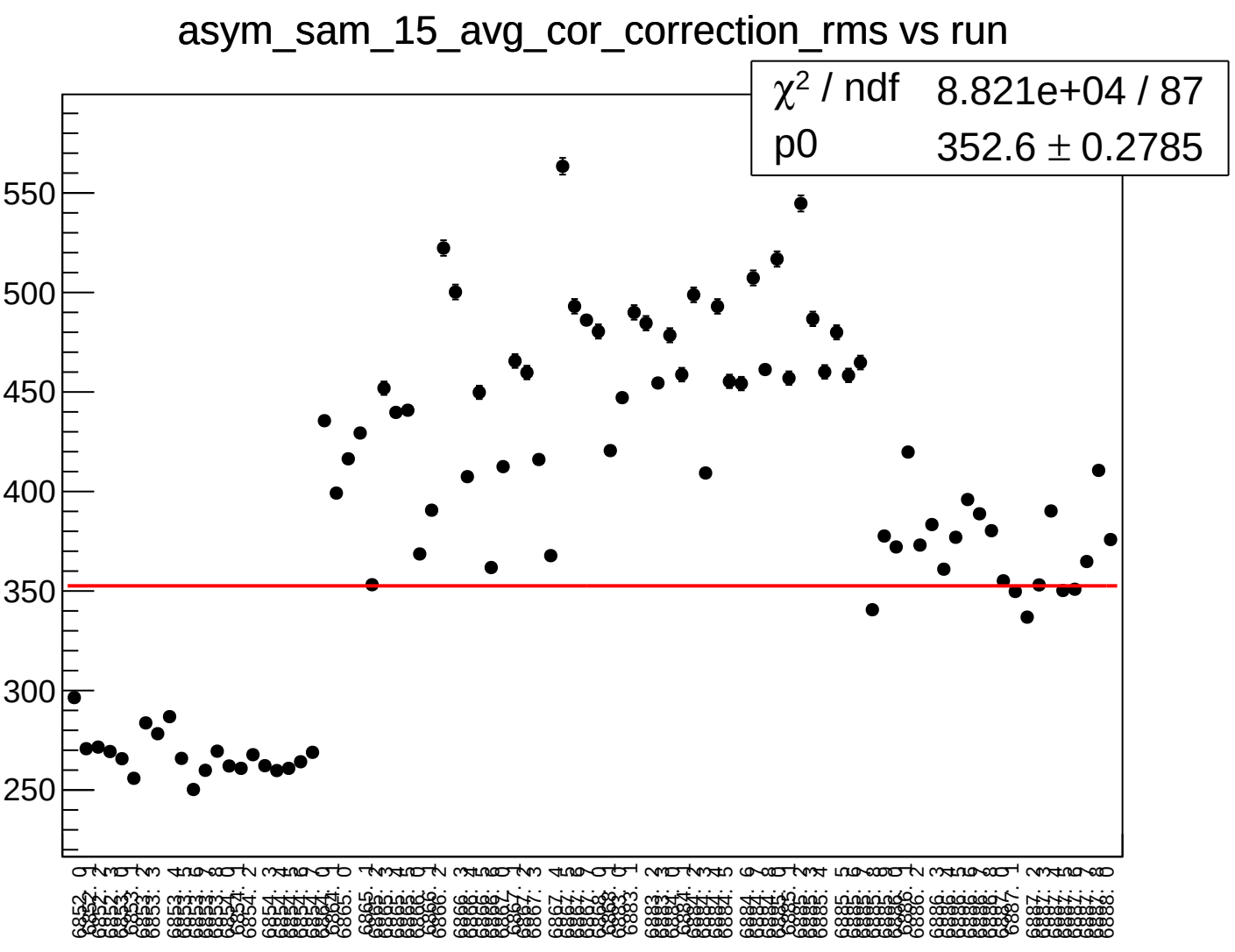

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 8.821e+04 / 87
p0 352.6 ± 0.2785
550
500
450
400
350
300
250

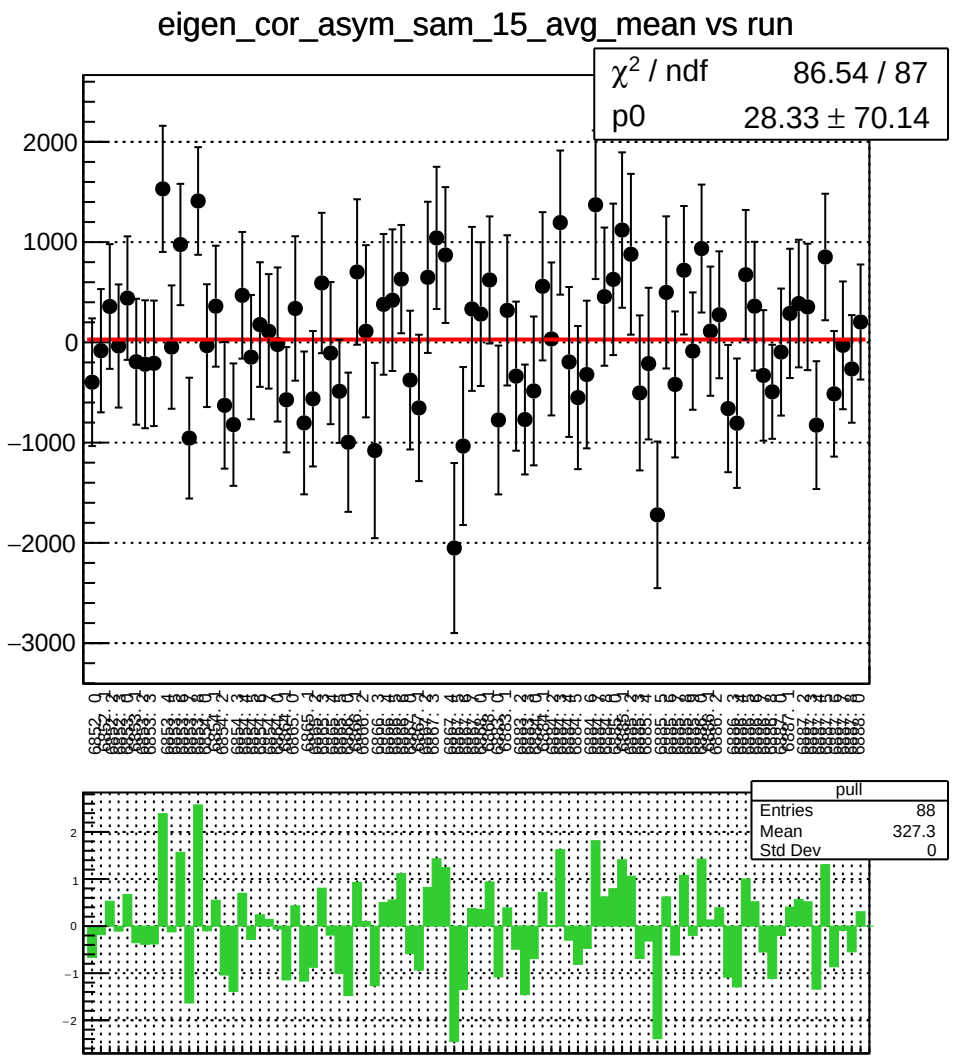

cor_asym_sam_15_avg_mean vs run
χ² / ndf 86.54 / 87
p0 28.33 ± 70.14
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 327.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.001084
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

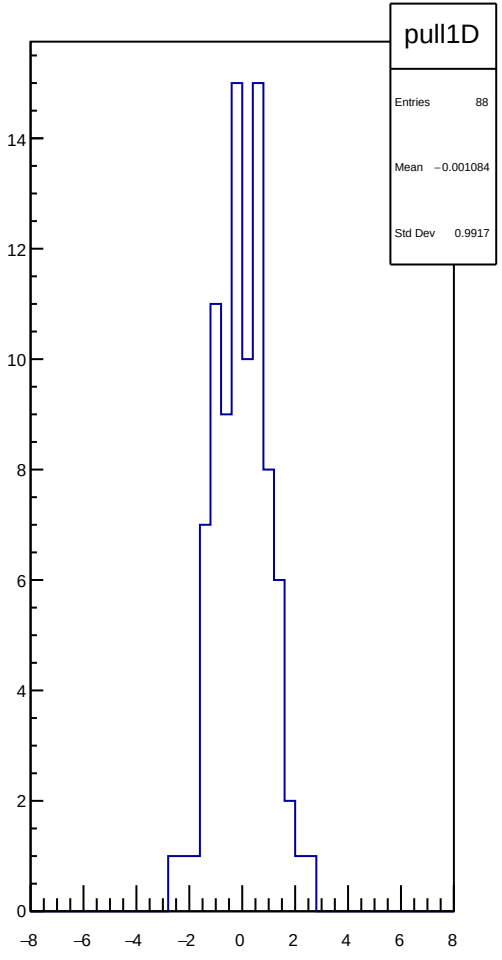

cor_asym_sam_15_avg_rms vs run
χ² / ndf 1.394e+04 / 87
p0 64.22 ± 0.04959
85
80
75
70
65
60
55

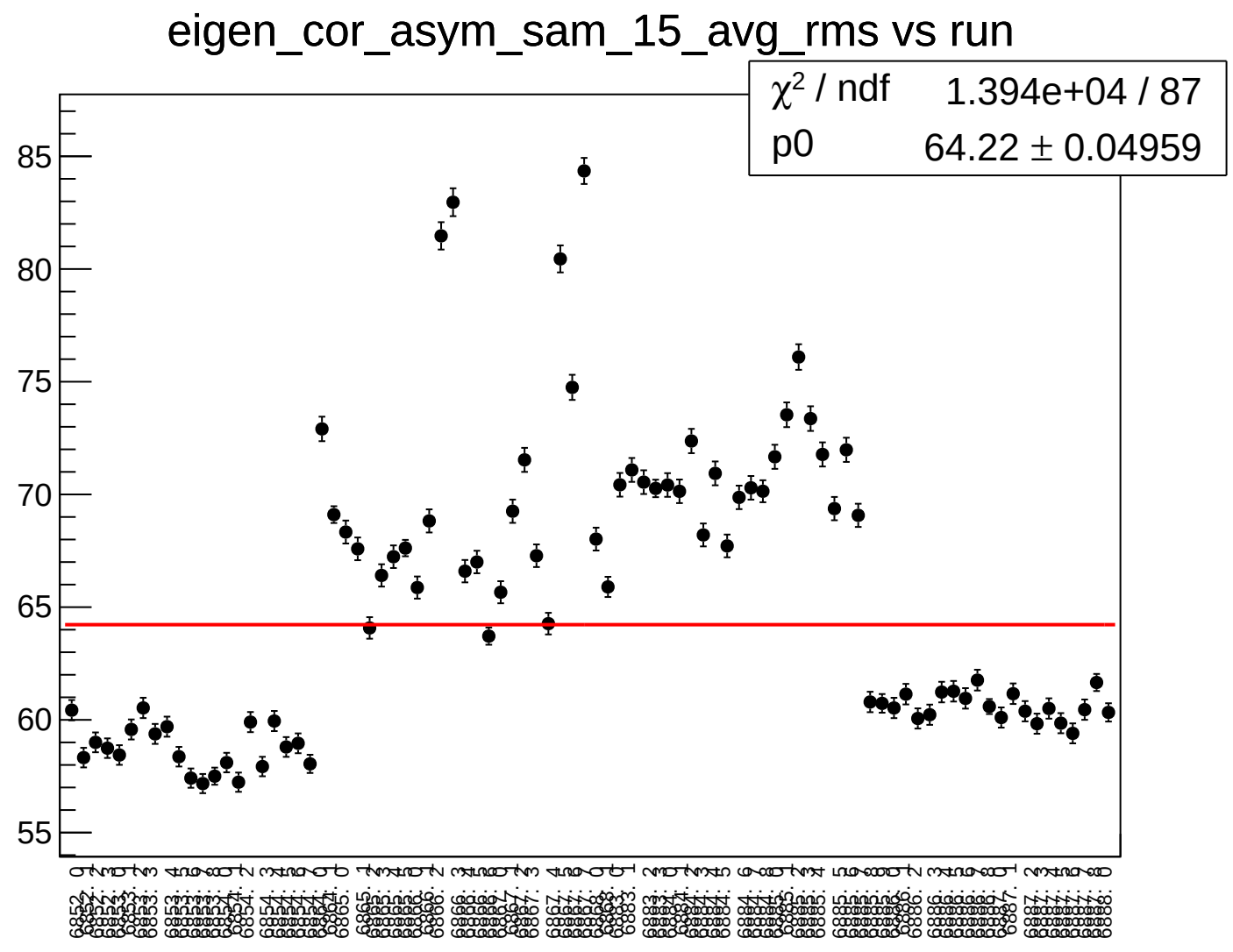

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 80.3 / 87
p0 −103 ± 393.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 107.3
Std Dev 0
2
1
0
−1
−2

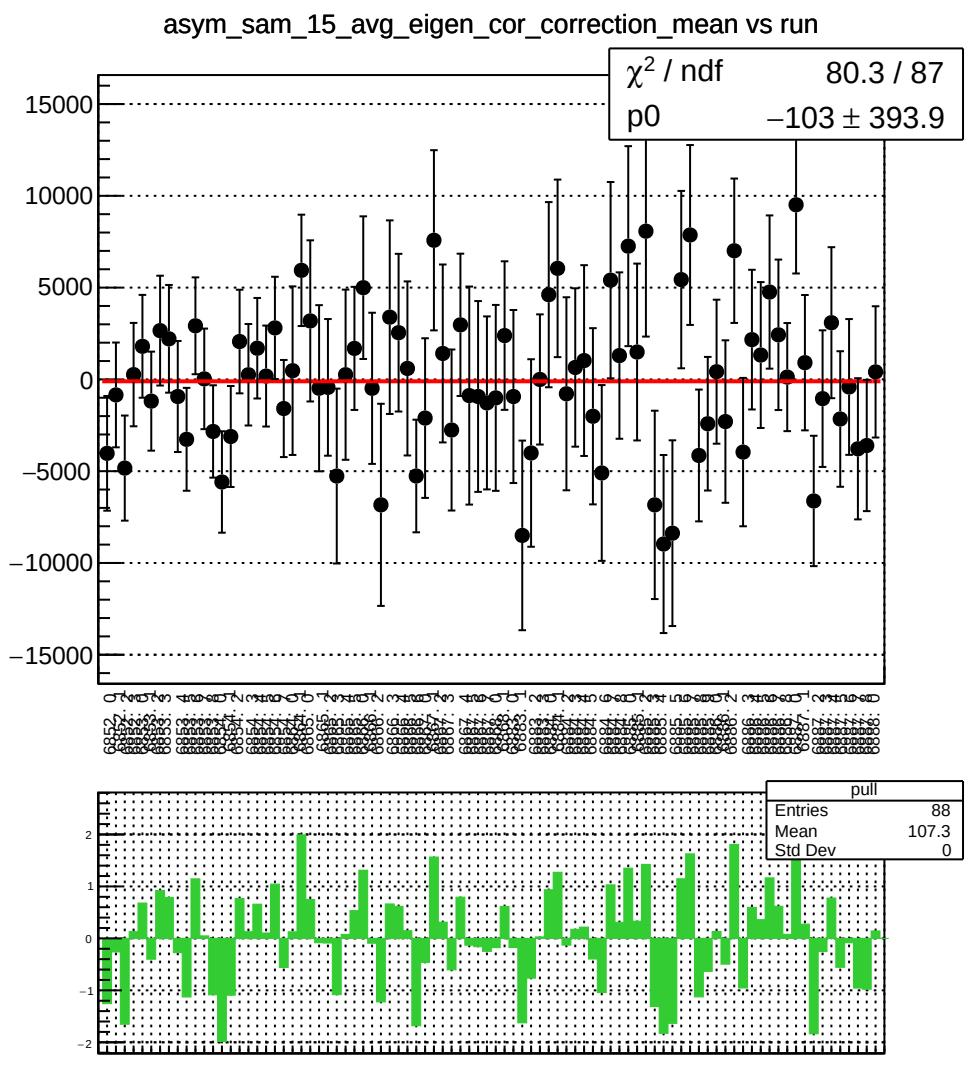

pull1D
Entries 88
Mean 0.0201
Std Dev 0.955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

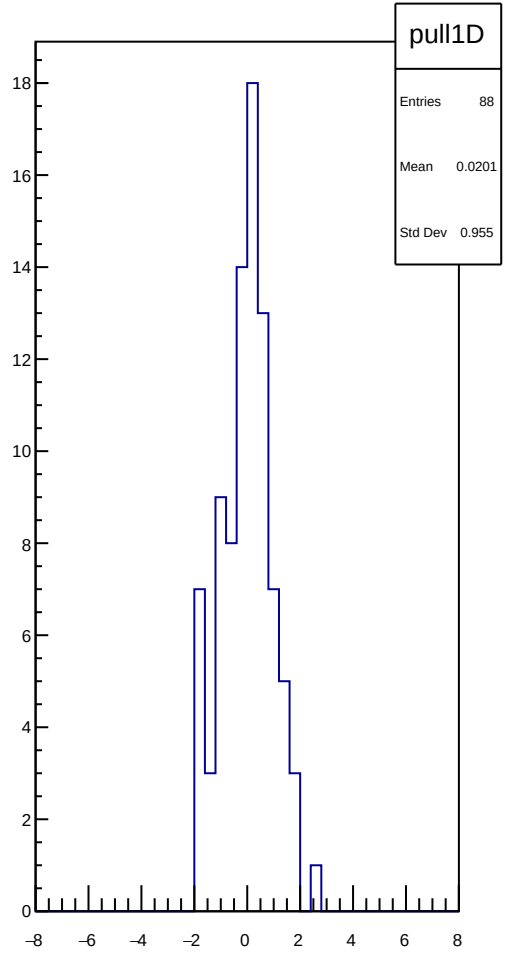

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 8.821e+04 / 87
p0 352.6 ± 0.2785
550
500
450
400
350
300
250

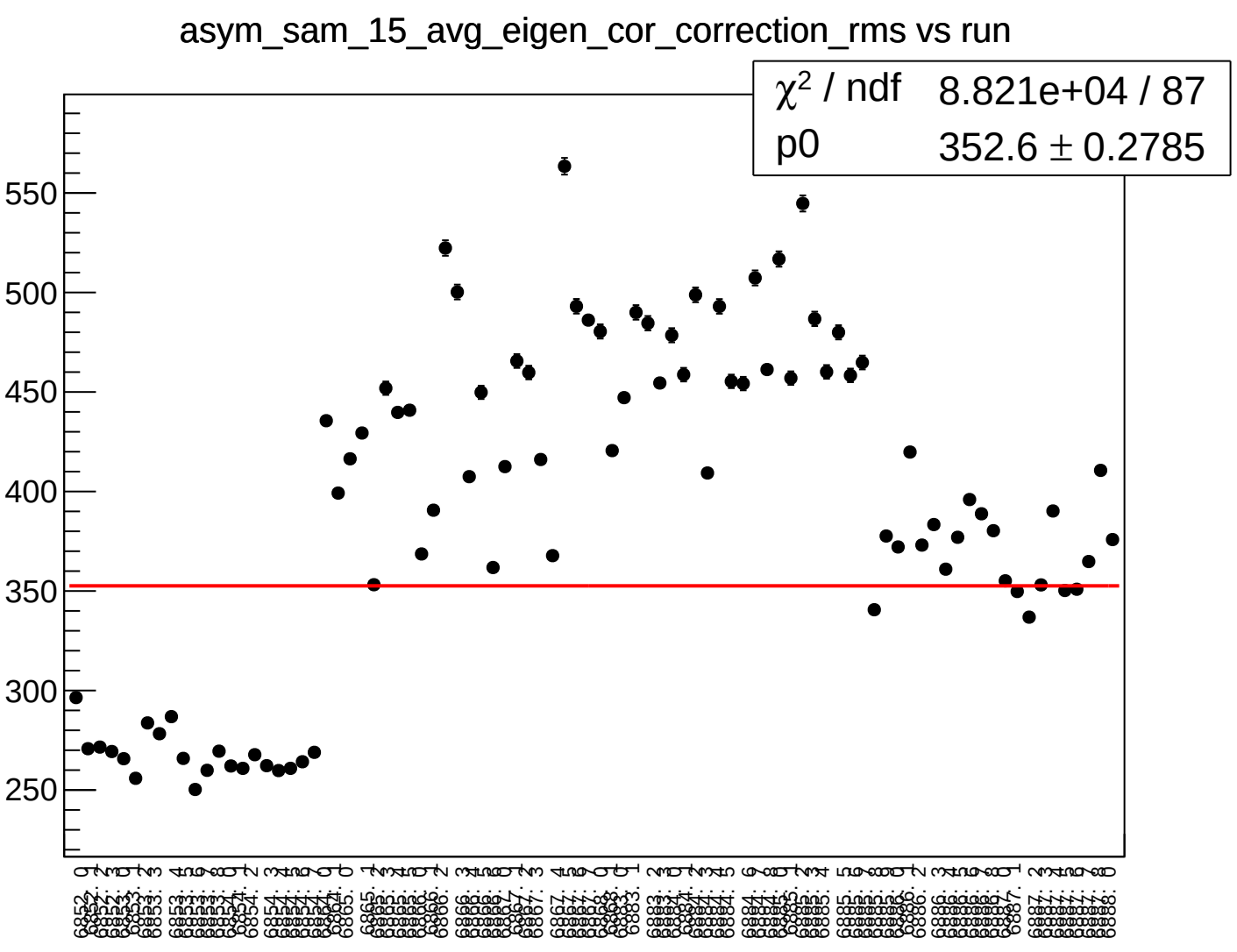

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 86.54 / 87
p0 28.33 ± 70.14
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 327.3
Std Dev 0
2
1
0
−1
−2

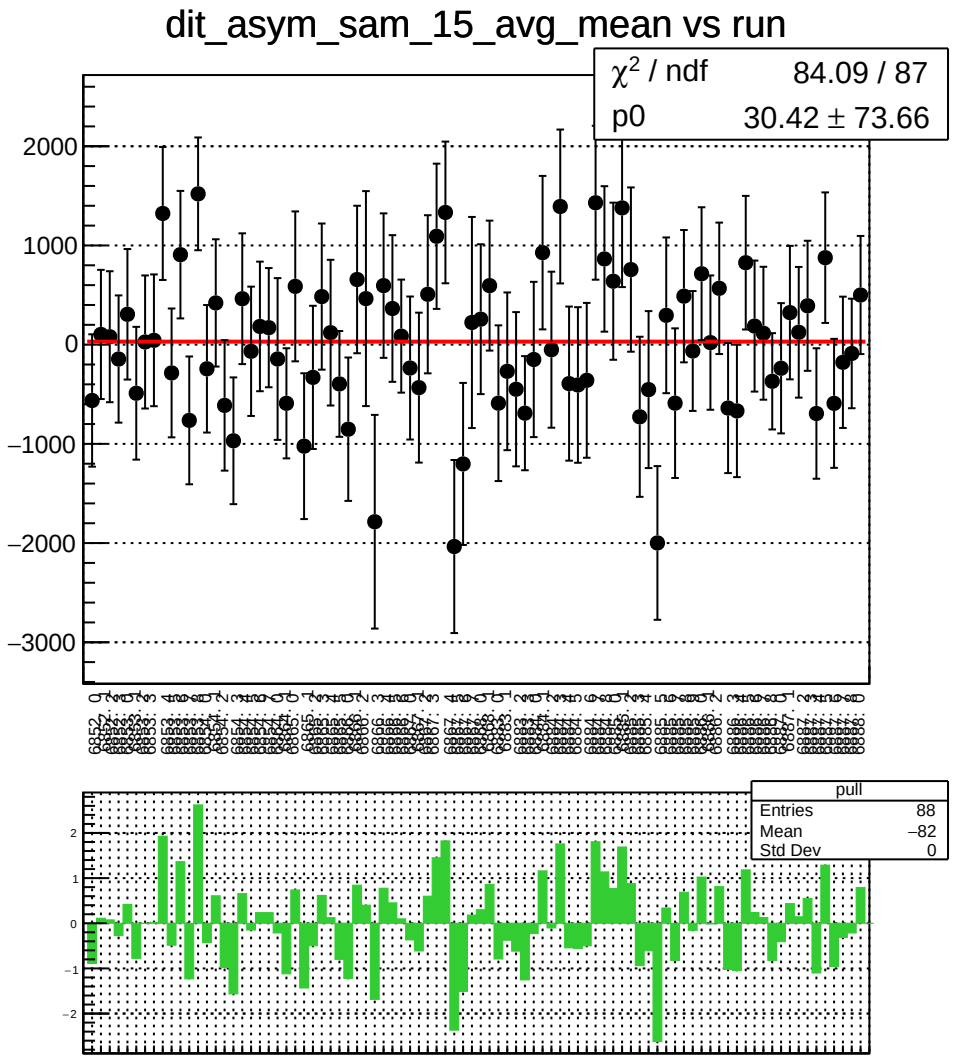

pull1D
Entries 88
Mean −0.001084
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

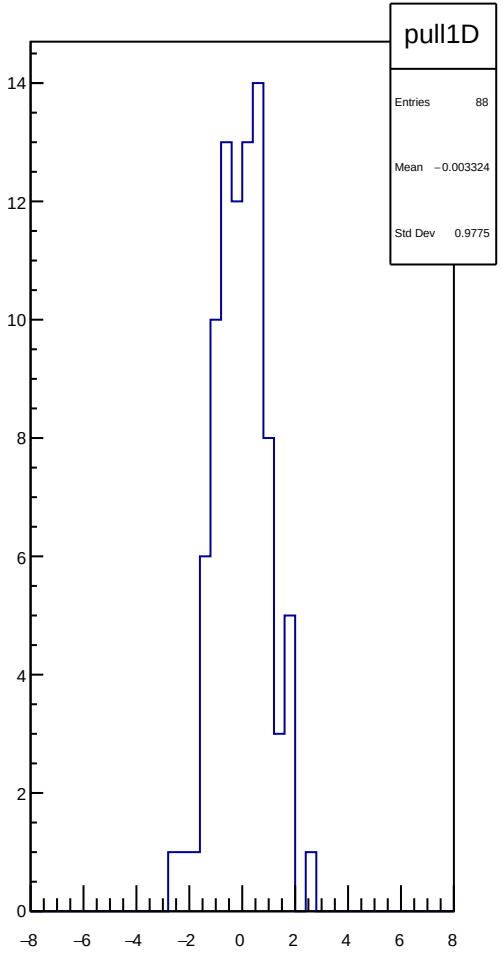

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1.394e+04 / 87
p0 64.22 ± 0.04959
85
80
75
70
65
60
55

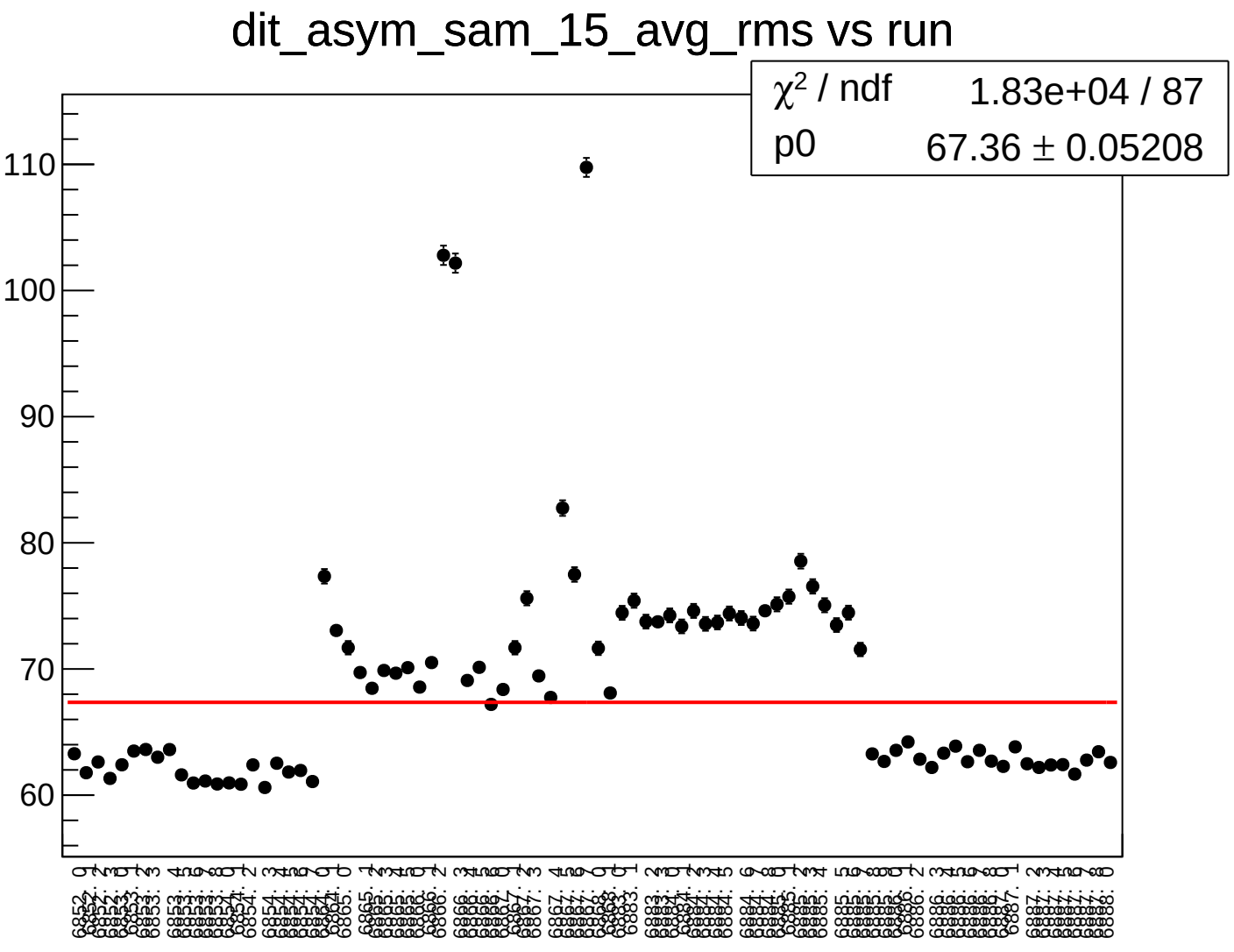

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.3 / 87
p0 −103 ± 393.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 107.3
Std Dev 0
2
1
0
−1
−2

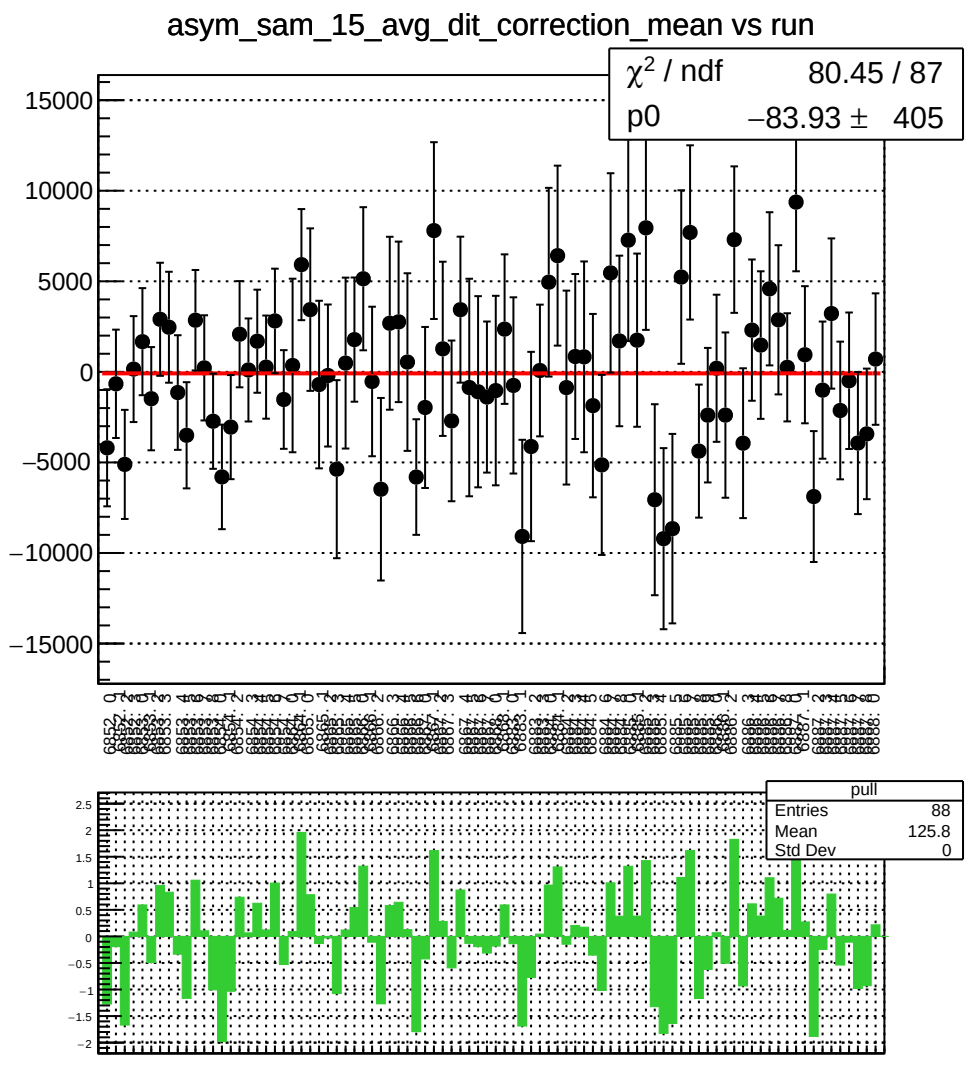

pull1D
Entries 88
Mean 0.0201
Std Dev 0.955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

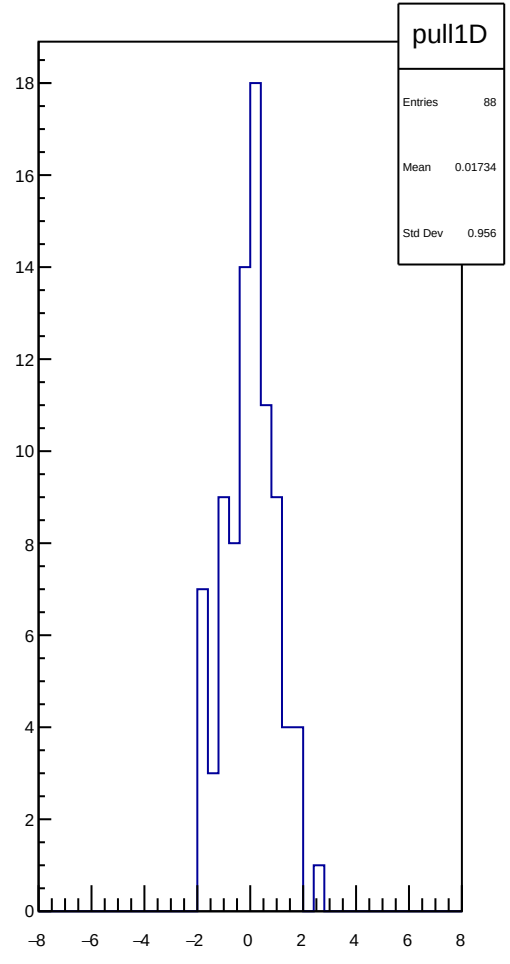

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 8.821e+04 / 87
p0 352.6 ± 0.2785
550
500
450
400
350
300
250

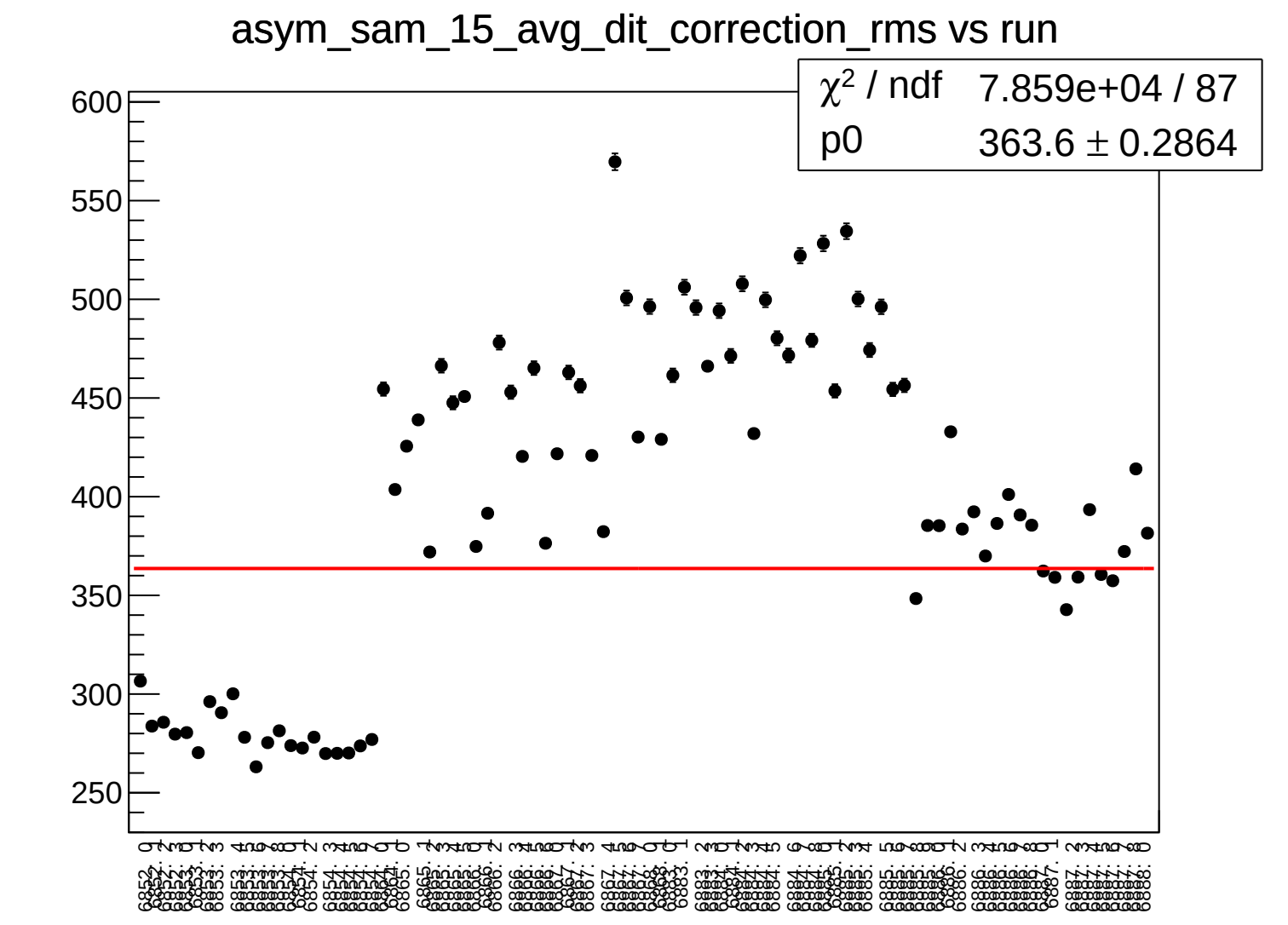

dit_asym_sam_15_avg_mean vs run
χ^2 / ndf 84.09 / 87
p0 30.42 ± 73.66
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −82
Std Dev 0
2
1
0
−1
−2

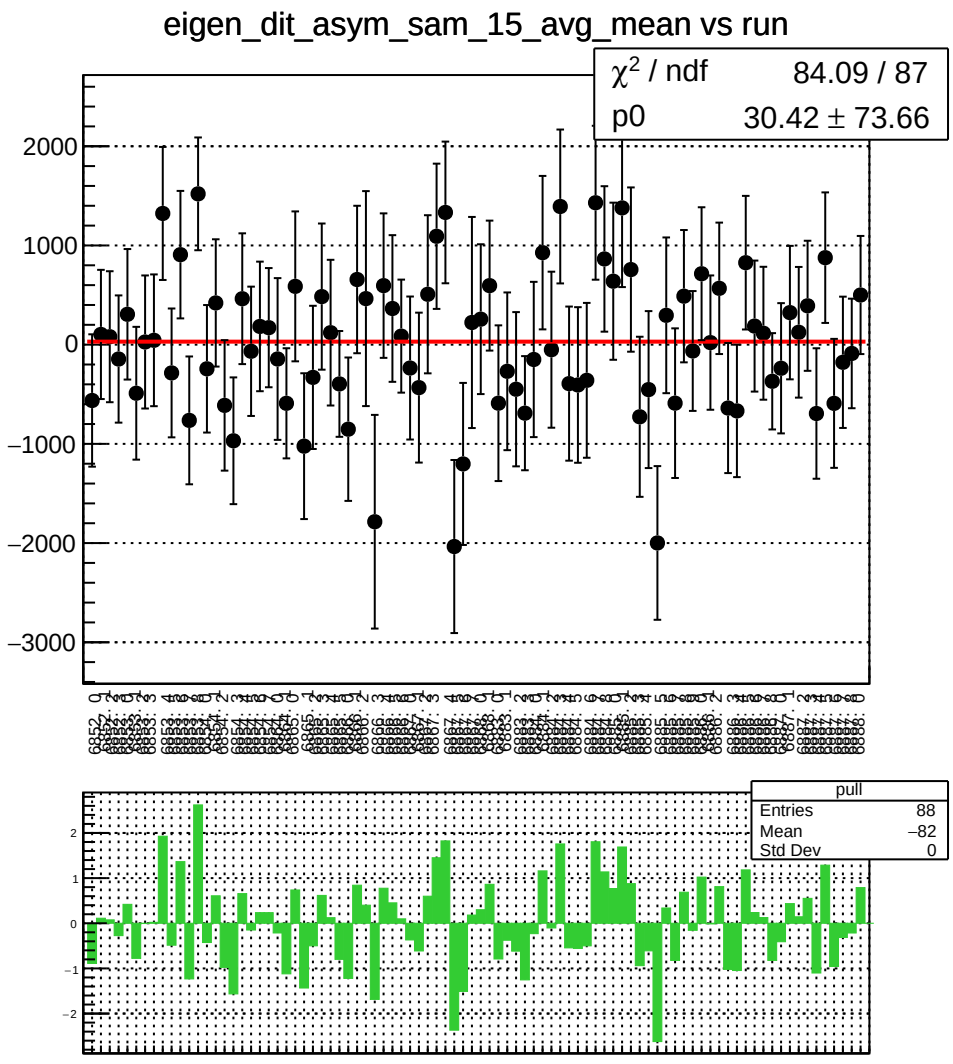

pull1D
Entries 88
Mean −0.003324
Std Dev 0.9775
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

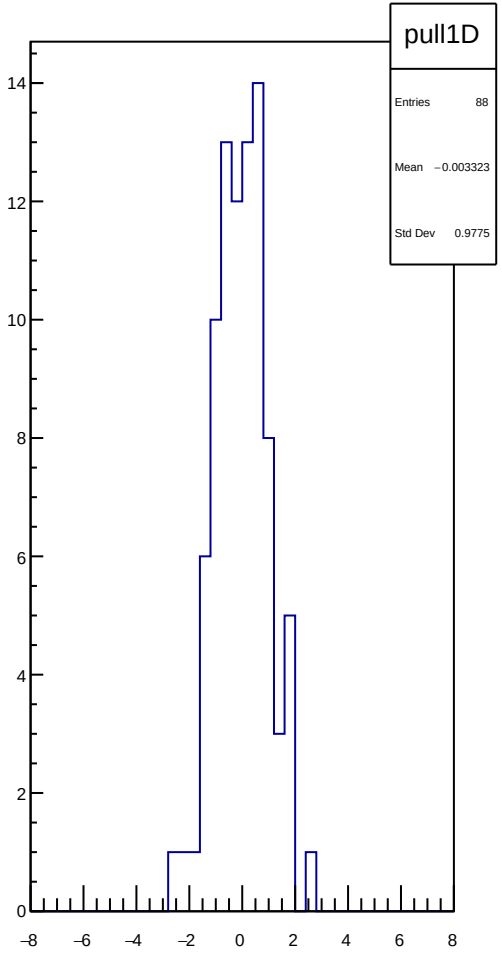

dit_asym_sam_15_avg_rms vs run
χ² / ndf 1.83e+04 / 87
p0 67.36 ± 0.05208
110
100
90
80
70
60

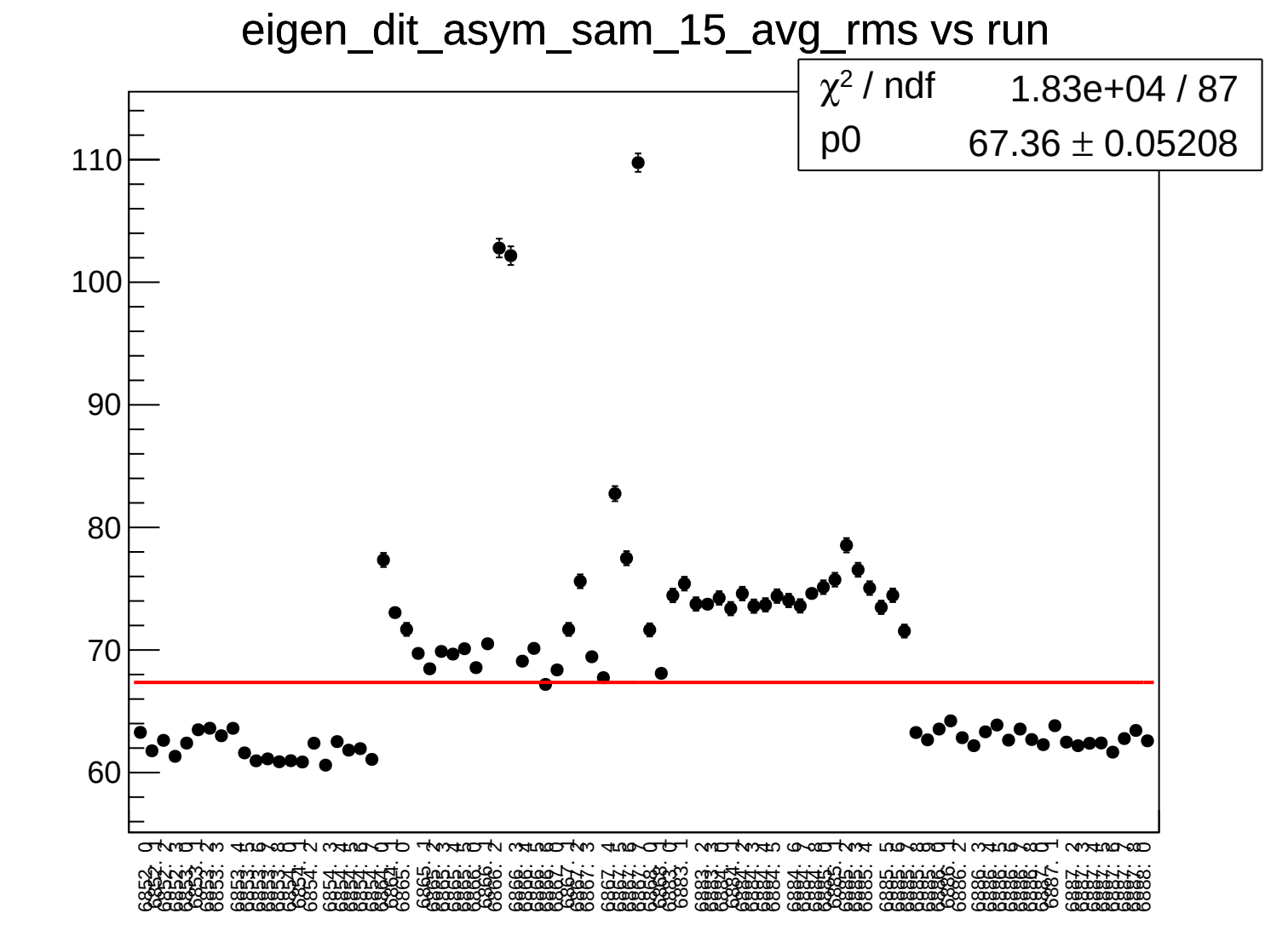

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 80.45 / 87
p0 −83.93 ± 405
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 125.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

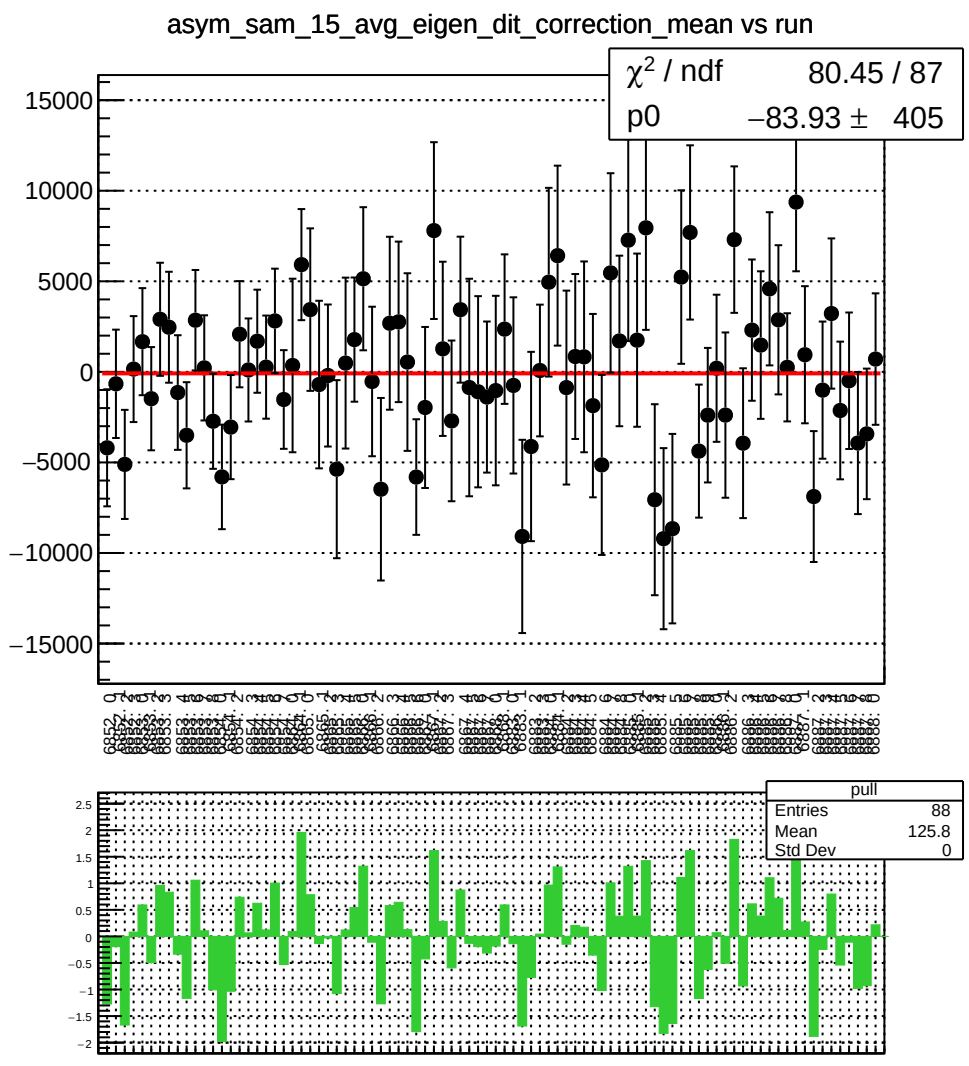

pull1D
Entries 88
Mean 0.01734
Std Dev 0.956
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

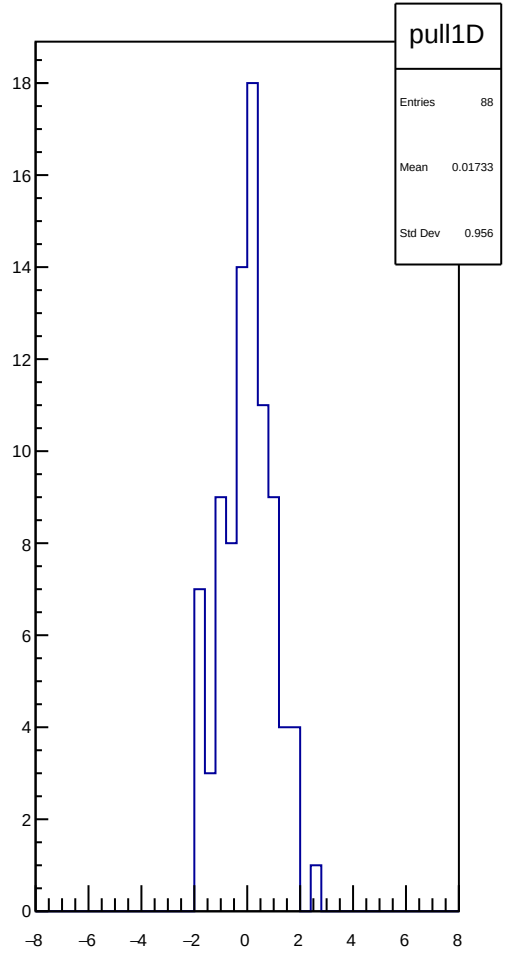

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 7.859e+04 / 87
p0 363.6 ± 0.2864
600
550
500
450
400
350
300
250

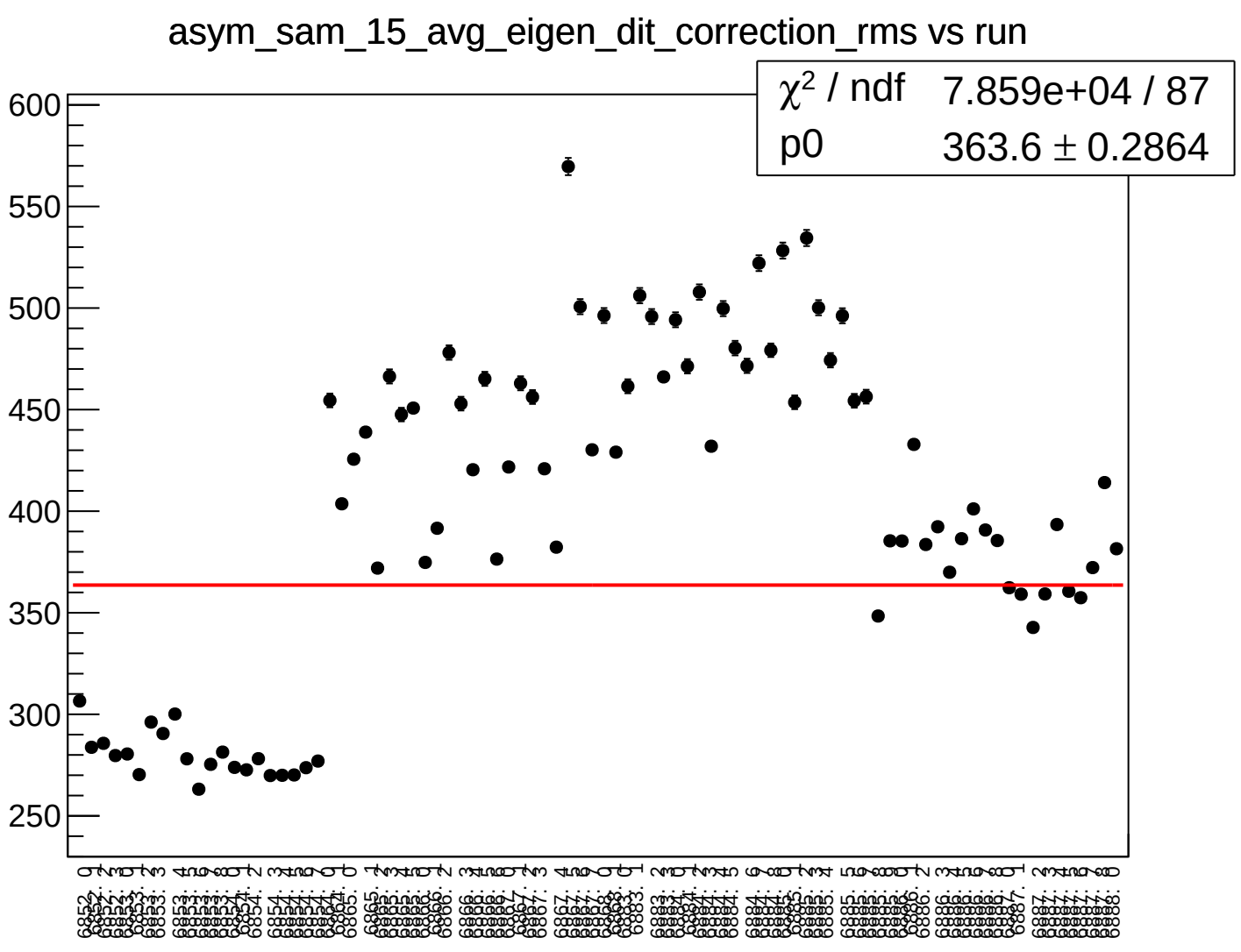

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 84.09 / 87
p0 30.42 ± 73.66
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −82
Std Dev 0
2
1
0
−1
−2

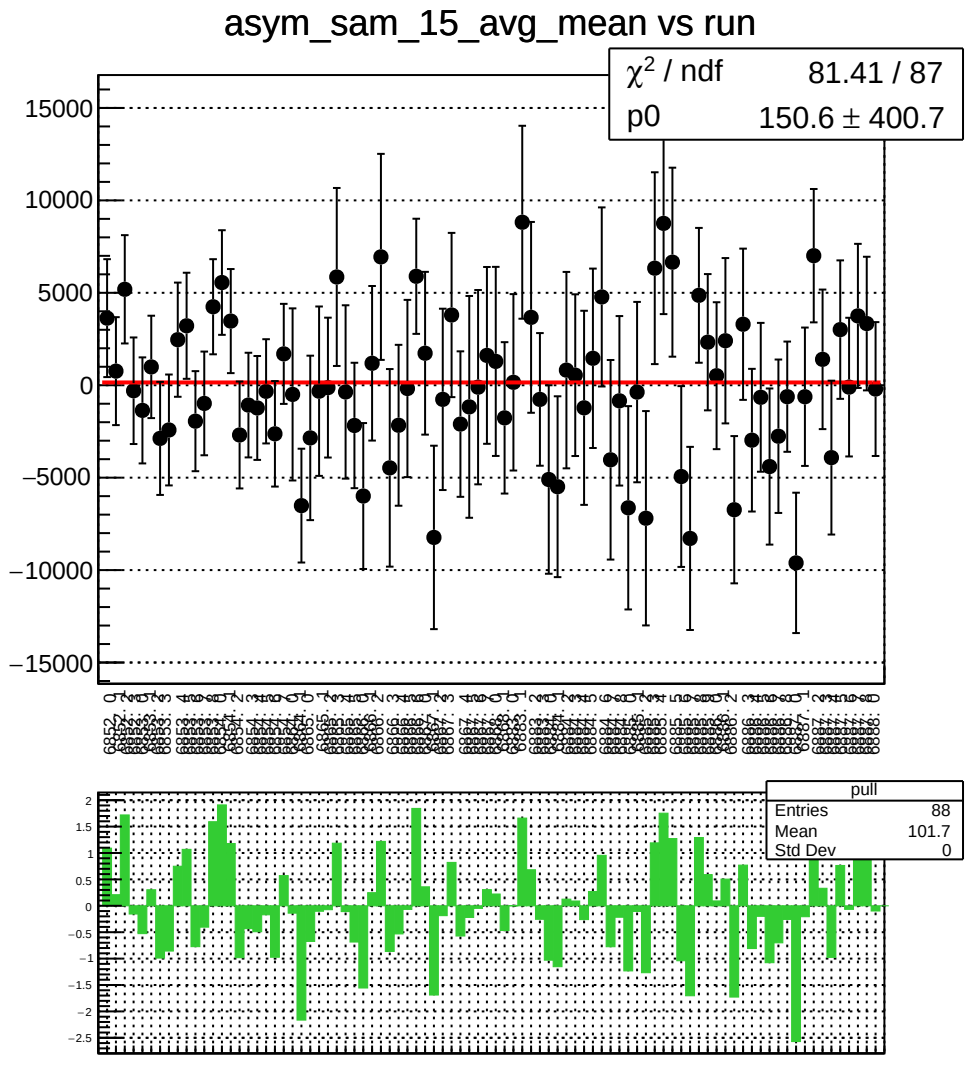

pull1D
Entries 88
Mean −0.003323
Std Dev 0.9775
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

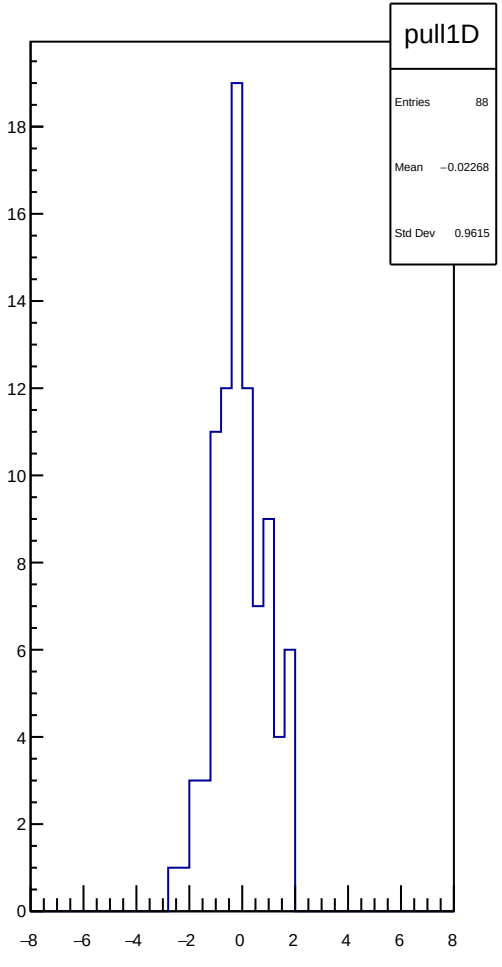

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.83e+04 / 87
p0 67.36 ± 0.05208
110
100
90
80
70
60

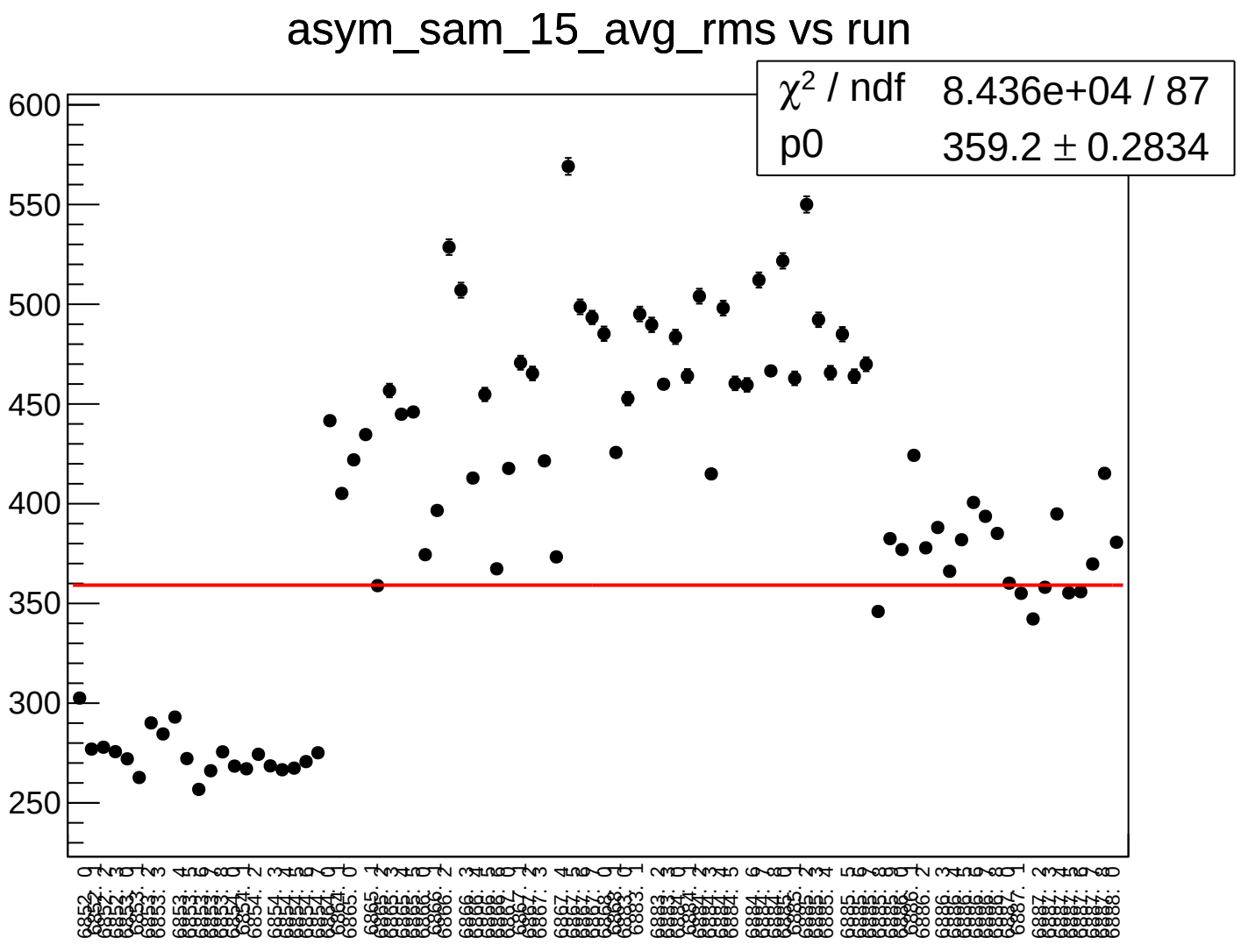

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.45 / 87
p0 −83.93 ± 405
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 125.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

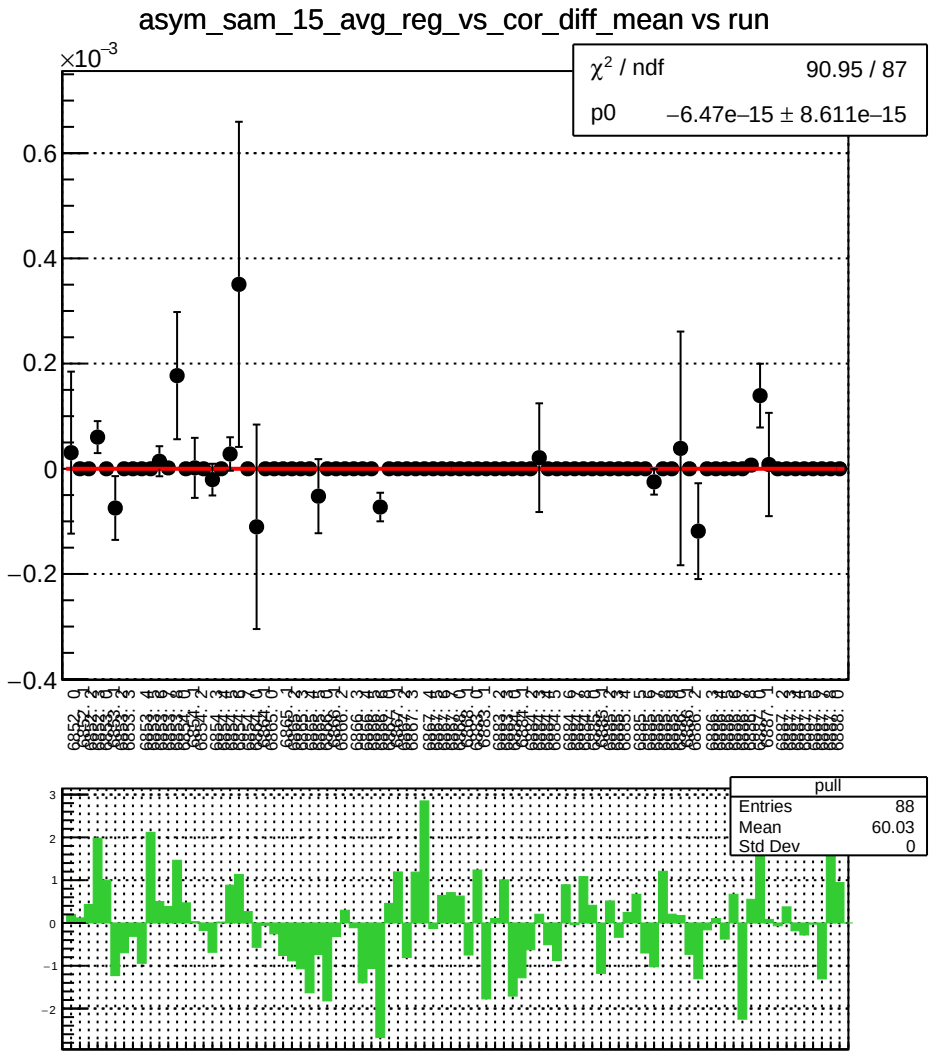

pull1D
Entries 88
Mean 0.01733
Std Dev 0.956
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

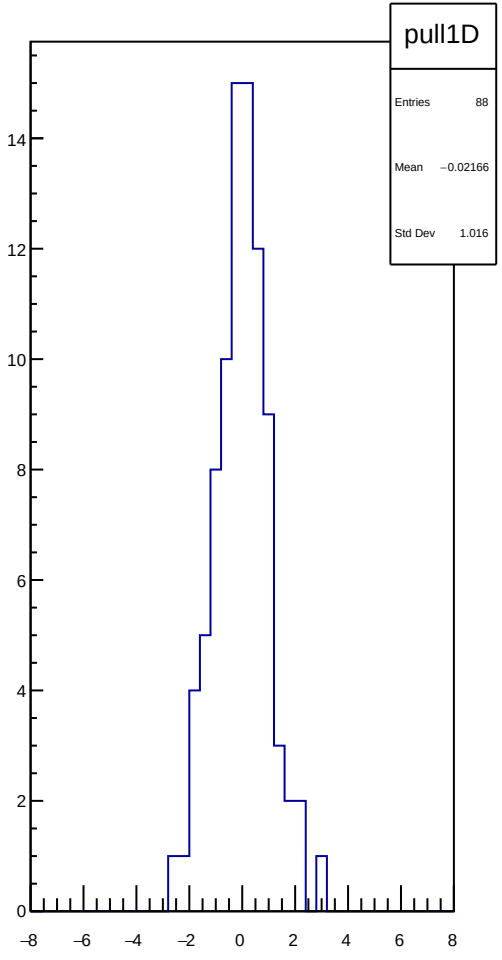

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.859e+04 / 87
p0 363.6 ± 0.2864
600
550
500
450
400
350
300
250

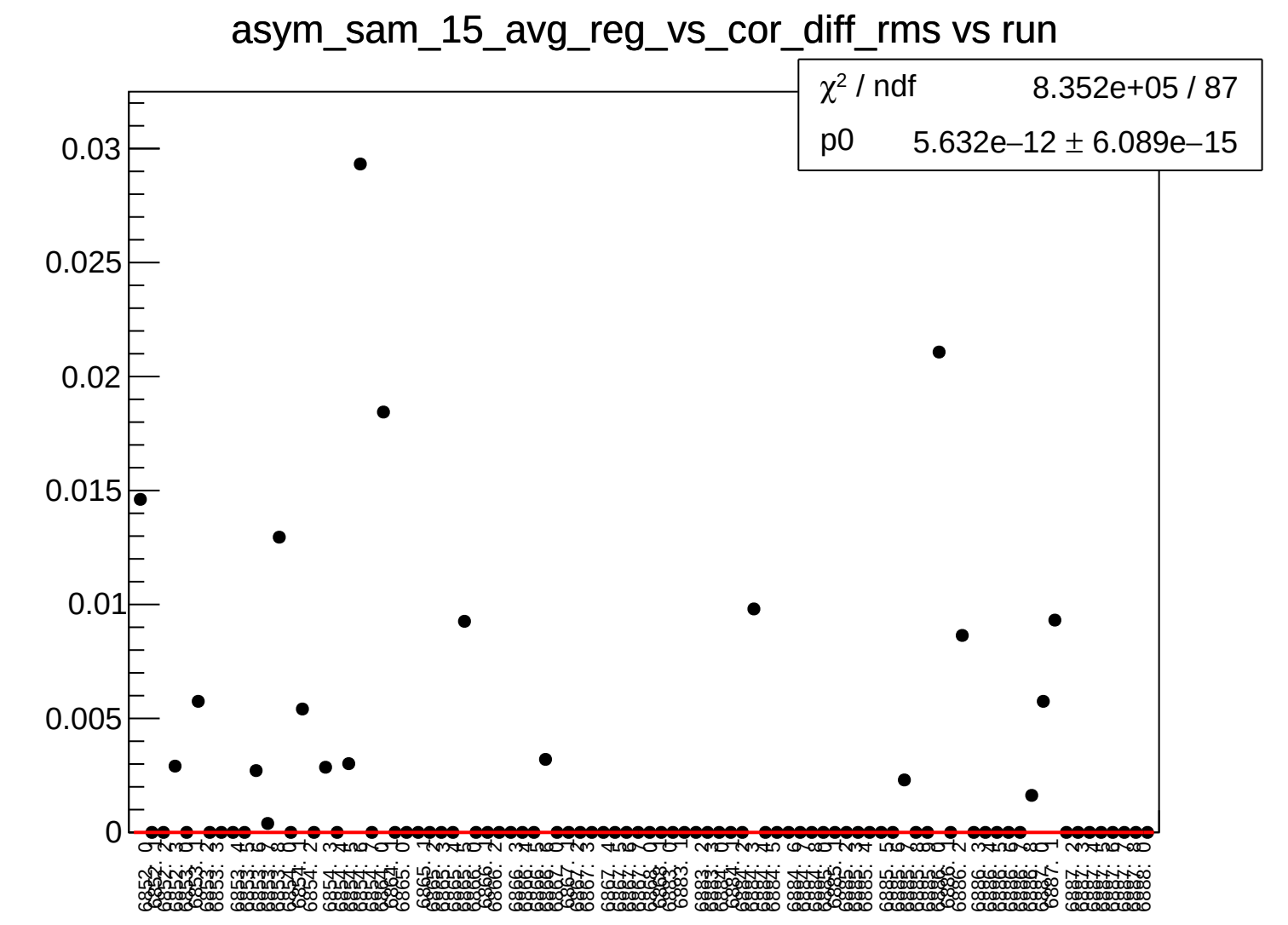

asym_sam_15_avg_mean vs run
χ² / ndf 81.41 / 87
p0 150.6 ± 400.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 101.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

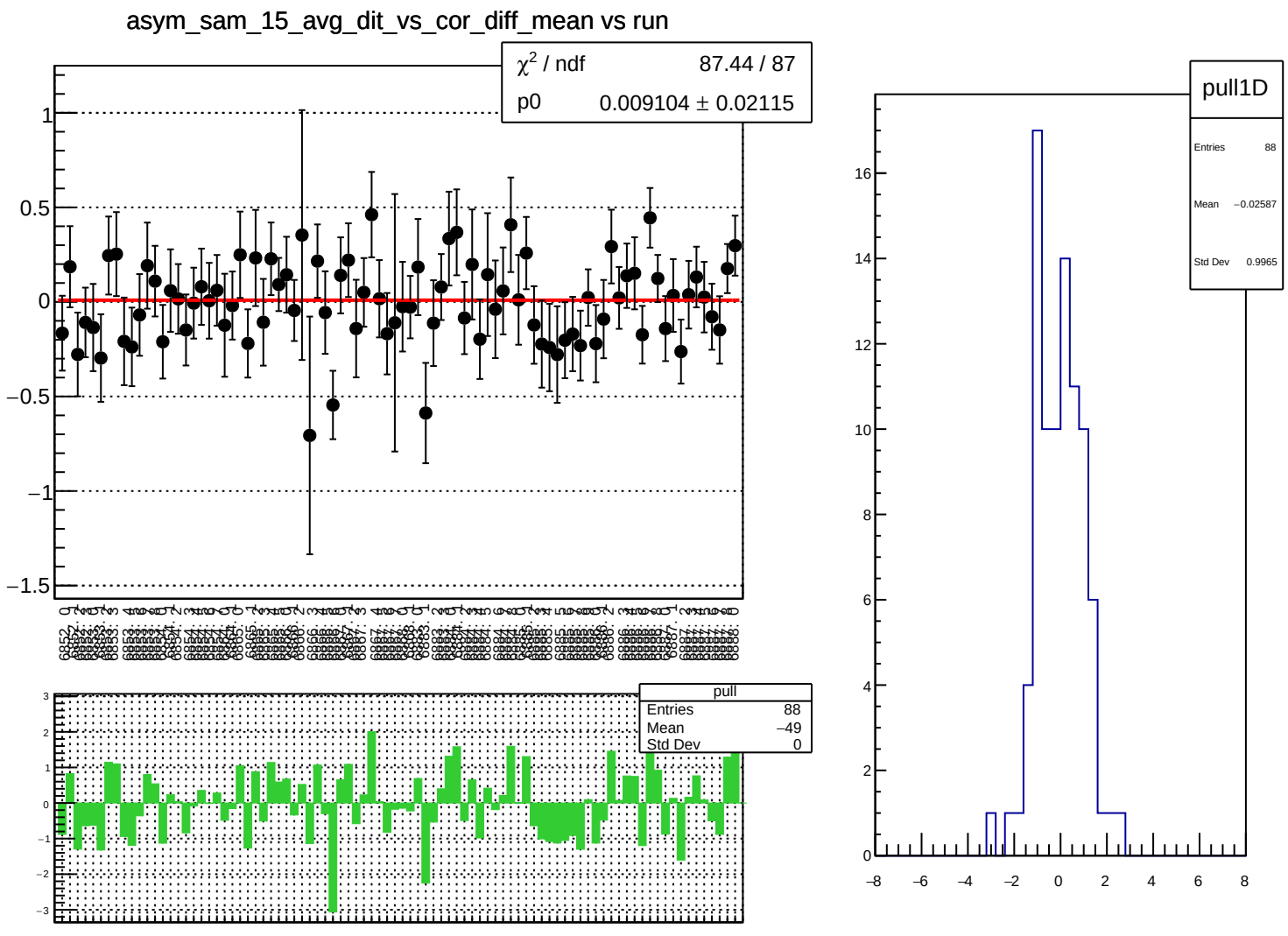

pull1D
Entries 88
Mean −0.02268
Std Dev 0.9615
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

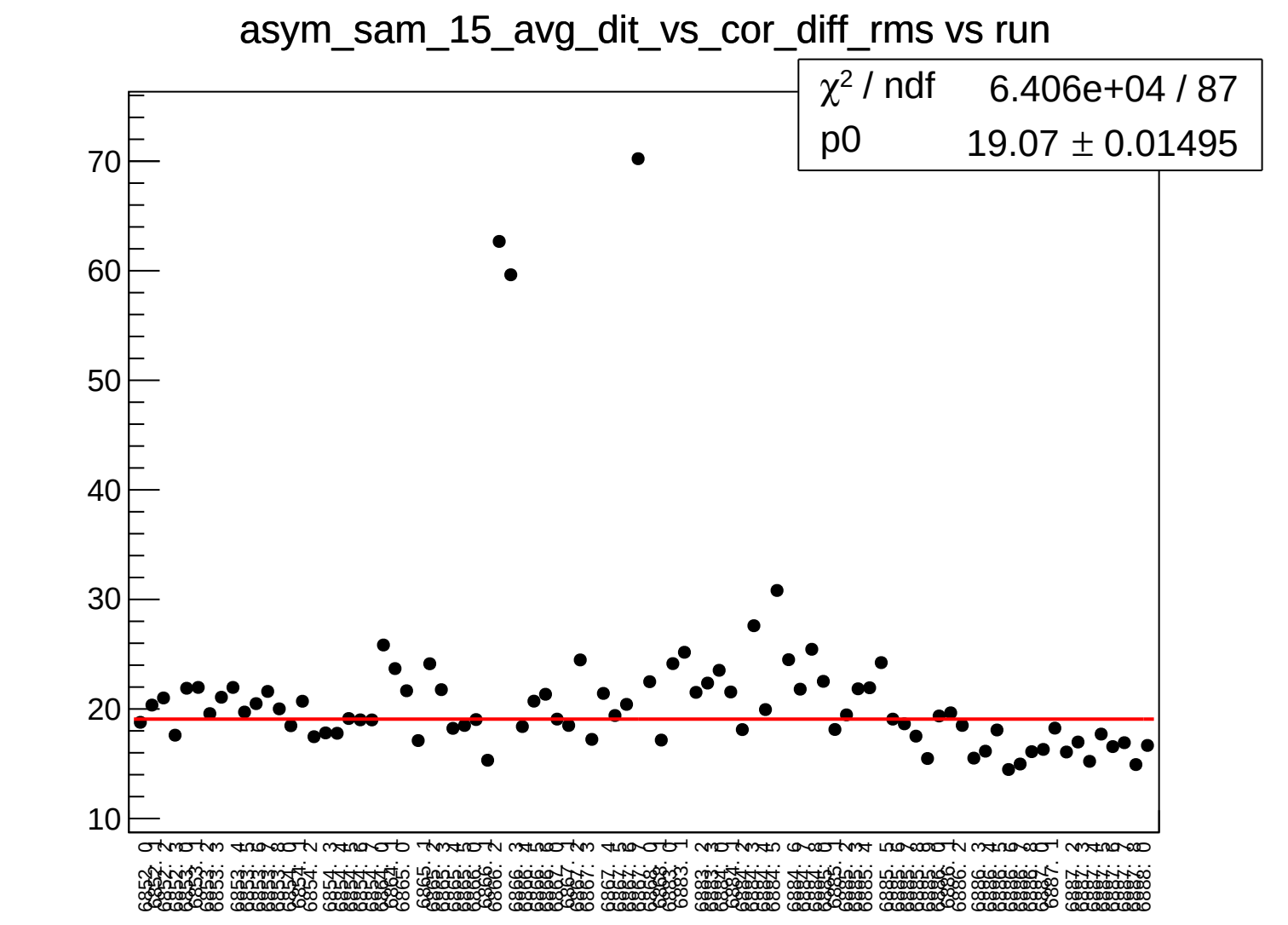

asym_sam_15_avg_rms vs run
χ² / ndf 8.436e+04 / 87
p0 359.2 ± 0.2834
600
550
500
450
400
350
300
250

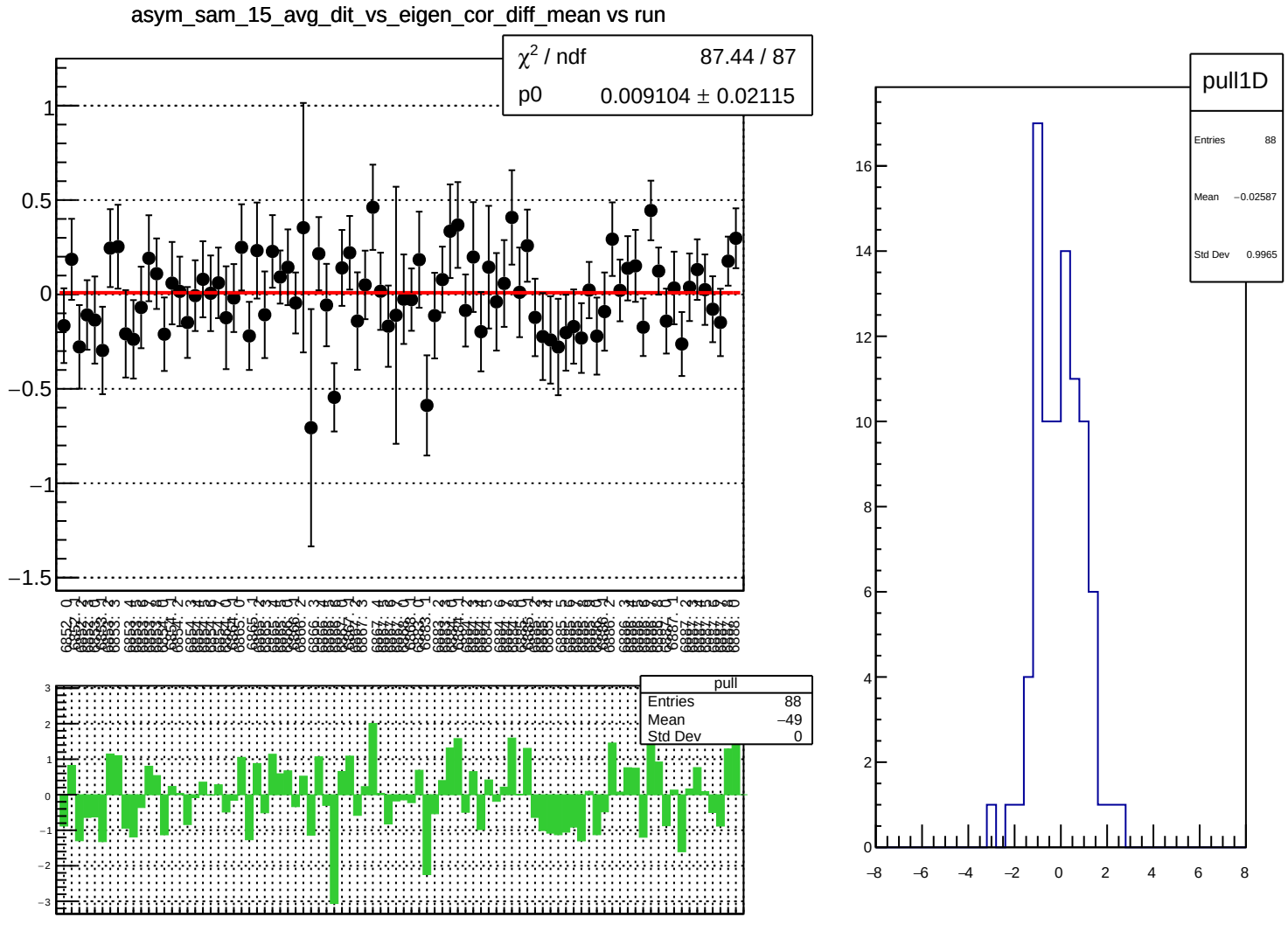

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 90.95 / 87
p0 −6.47e−15 ± 8.611e−15
pull
Entries 88
Mean 60.03
Std Dev 0

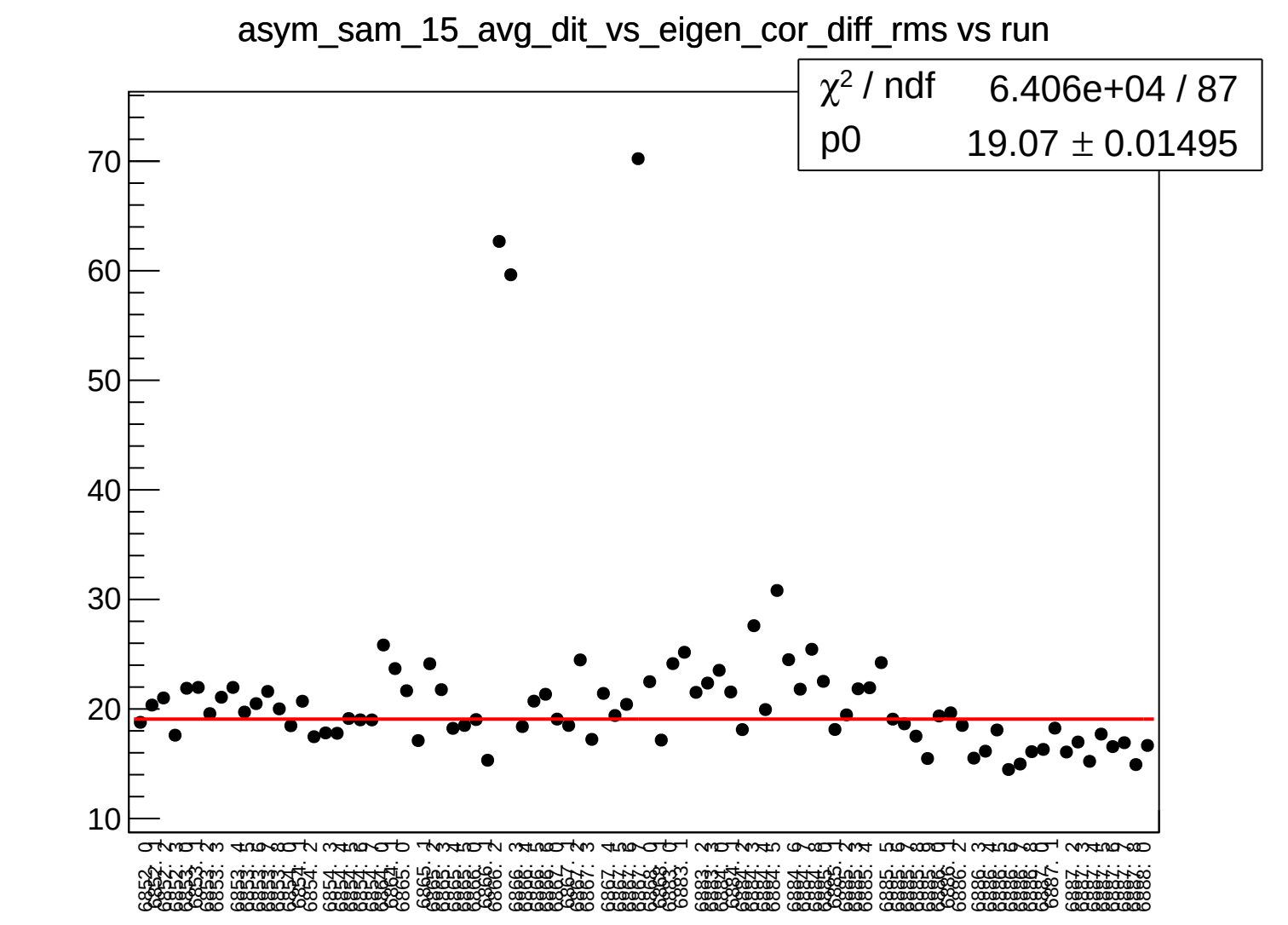

pull1D
Entries 88
Mean −0.02166
Std Dev 1.016

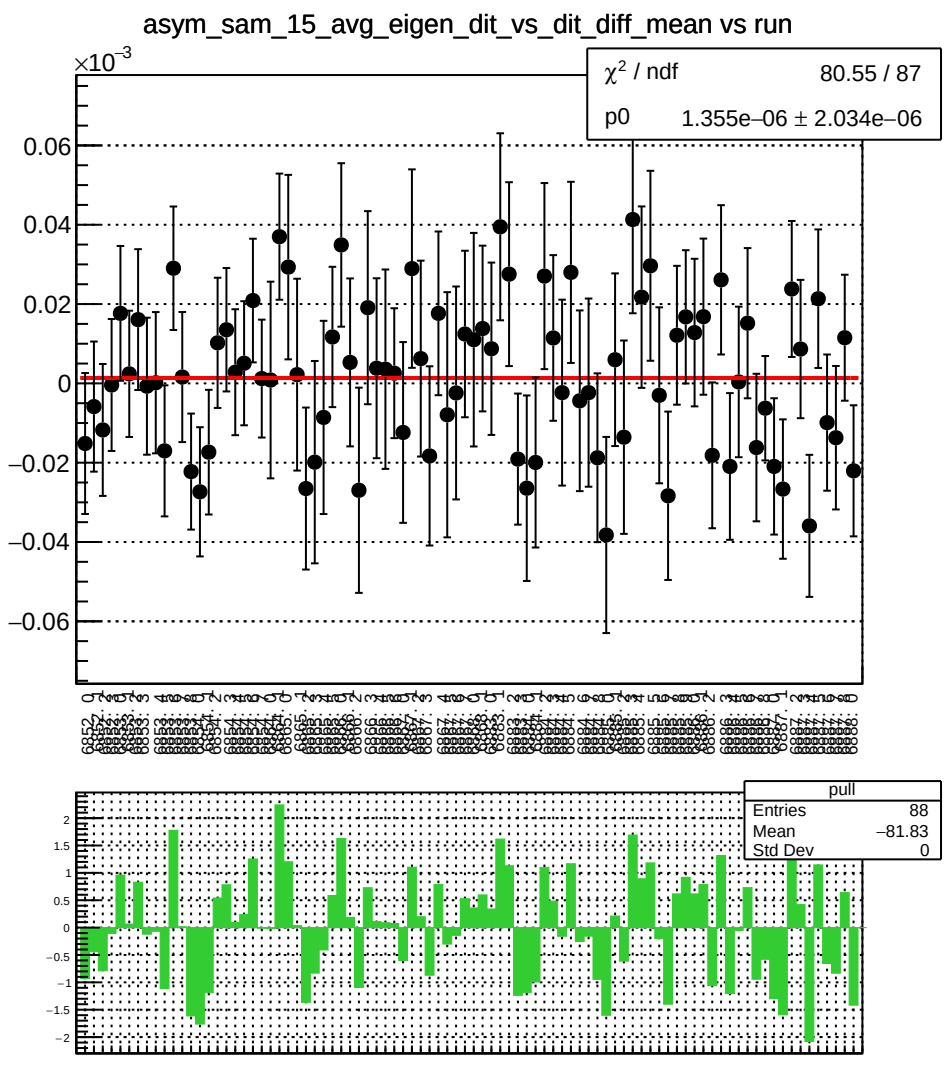

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.352e+05 / 87
p0 5.632e−12 ± 6.089e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

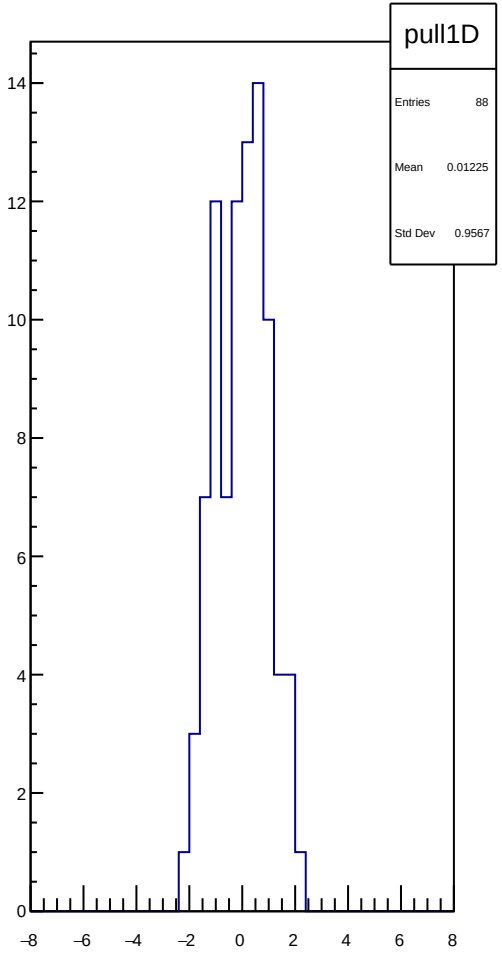

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.44 / 87
p0 0.009104 ± 0.02115
pull
Entries 88
Mean −49
Std Dev 0
pull1D
Entries 88
Mean −0.02587
Std Dev 0.9965

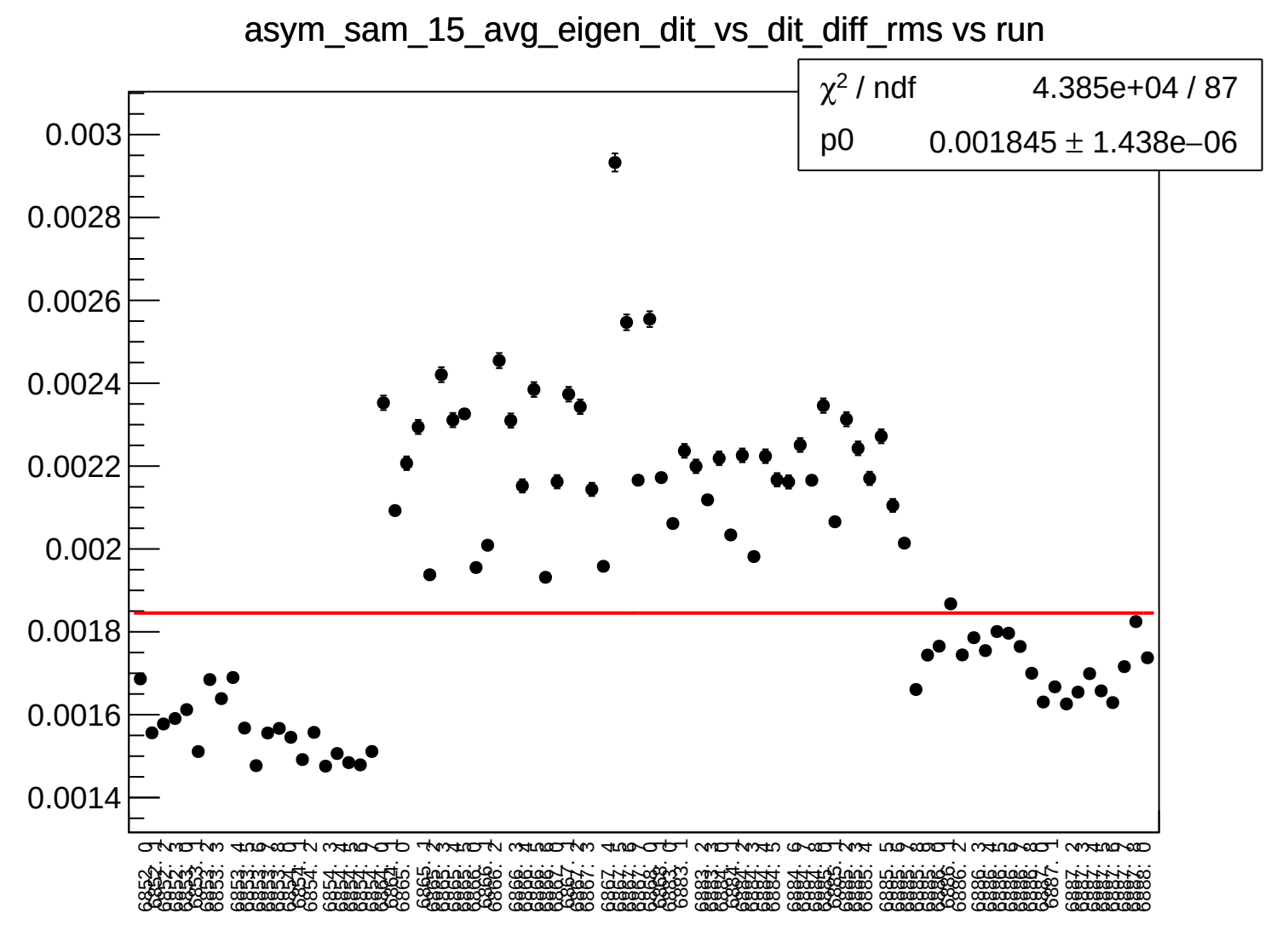

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.406e+04 / 87
p0 19.07 ± 0.01495
70
60
50
40
30
20
10

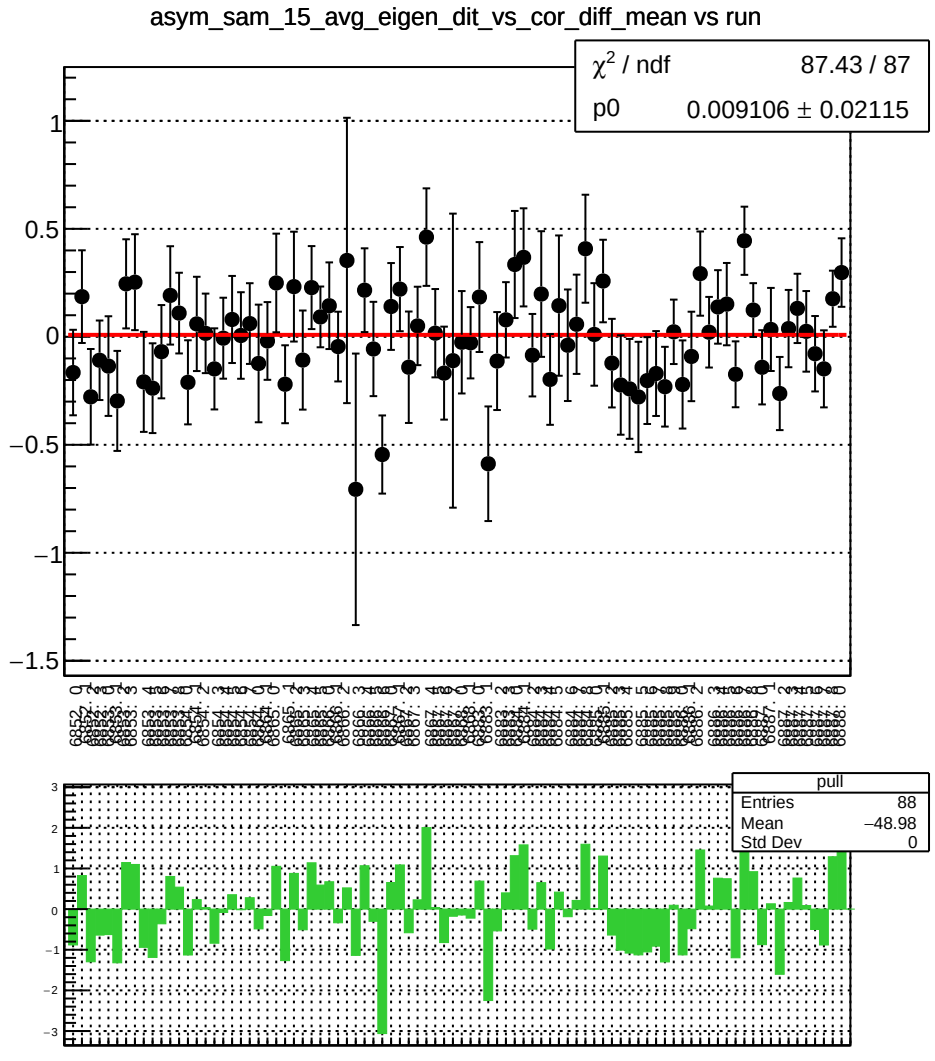

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.44 / 87
p0 0.009104 ± 0.02115
pull
Entries 88
Mean −49
Std Dev 0
pull1D
Entries 88
Mean −0.02587
Std Dev 0.9965

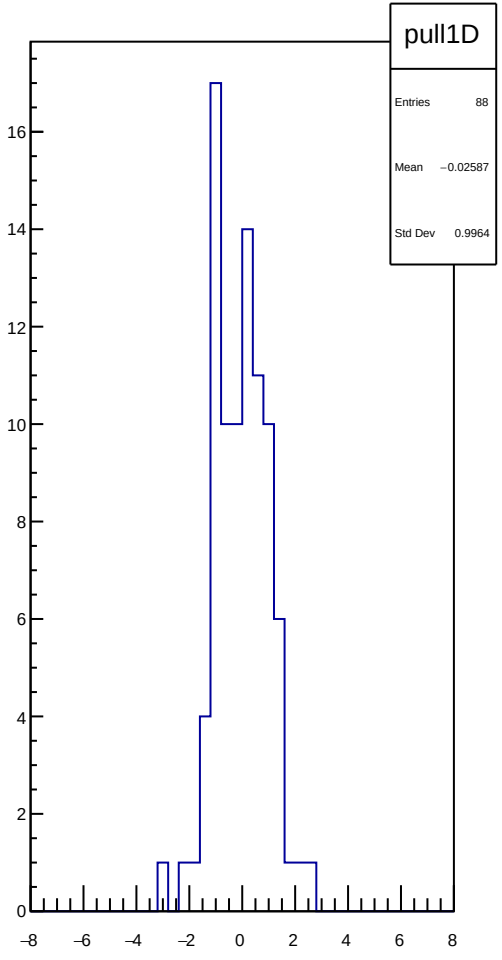

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.406e+04 / 87
p0 19.07 ± 0.01495
70
60
50
40
30
20
10

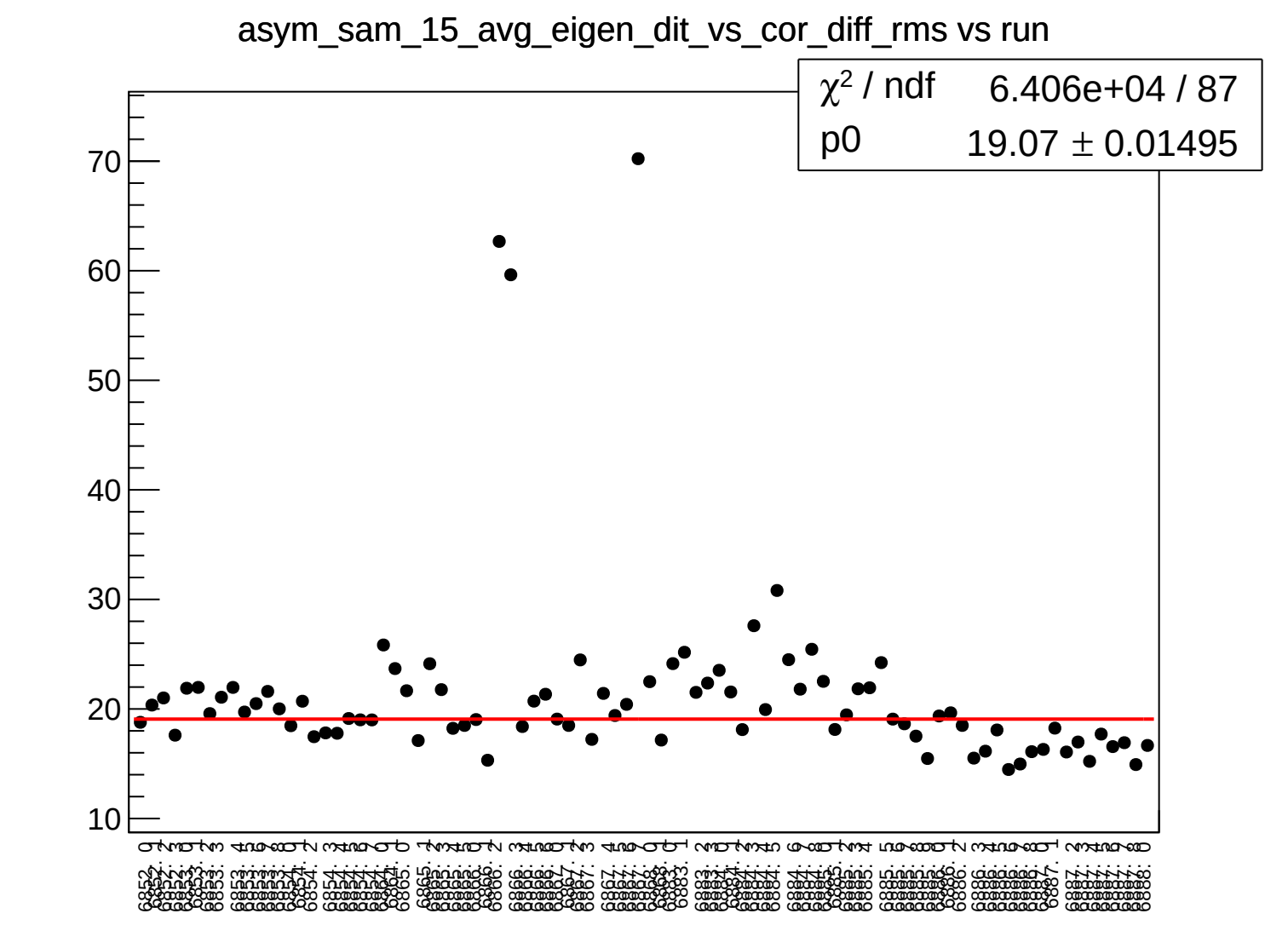

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.55 / 87
p0 1.355e−06 ± 2.034e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean −81.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

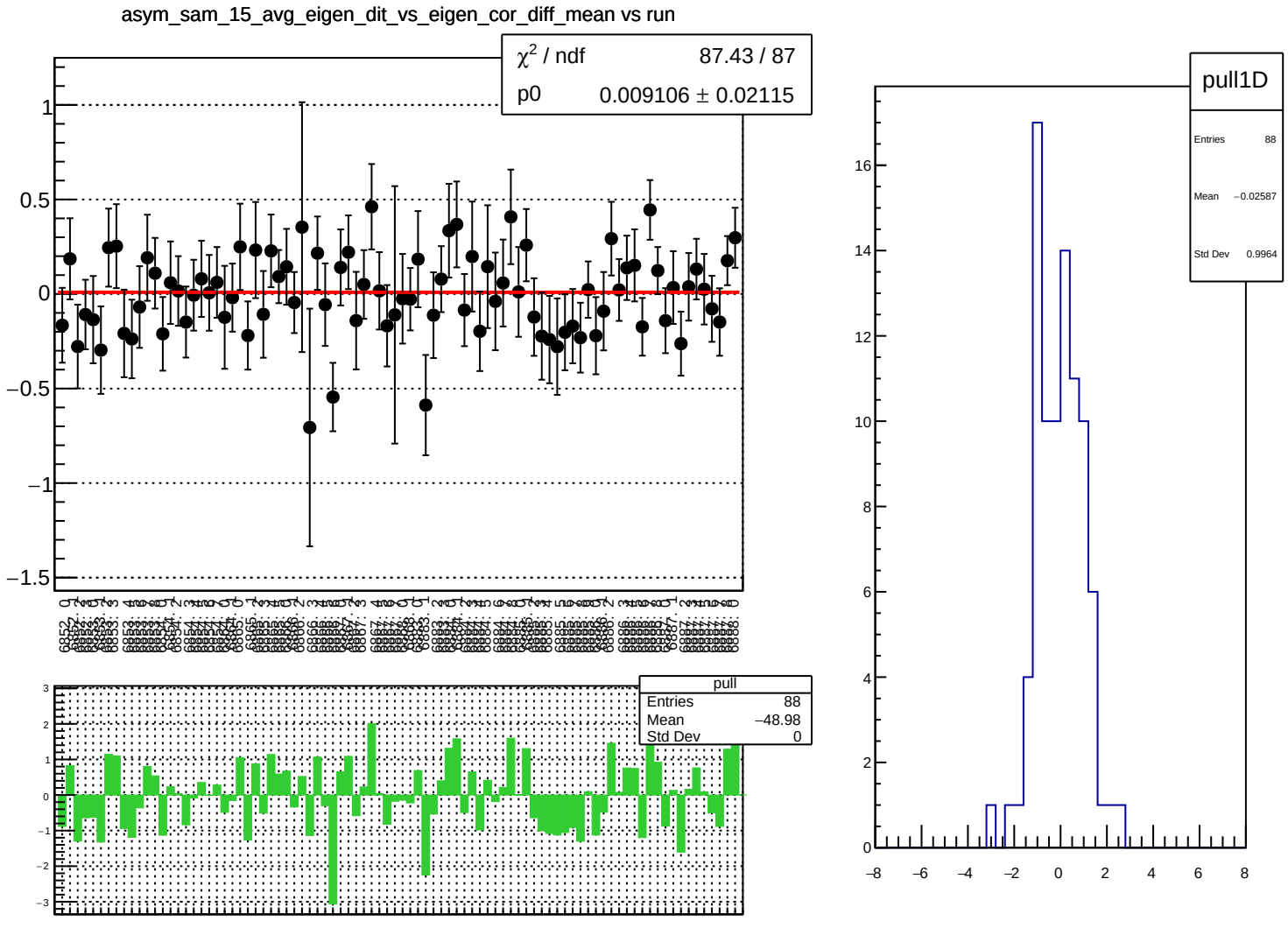

pull1D
Entries 88
Mean 0.01225
Std Dev 0.9567
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

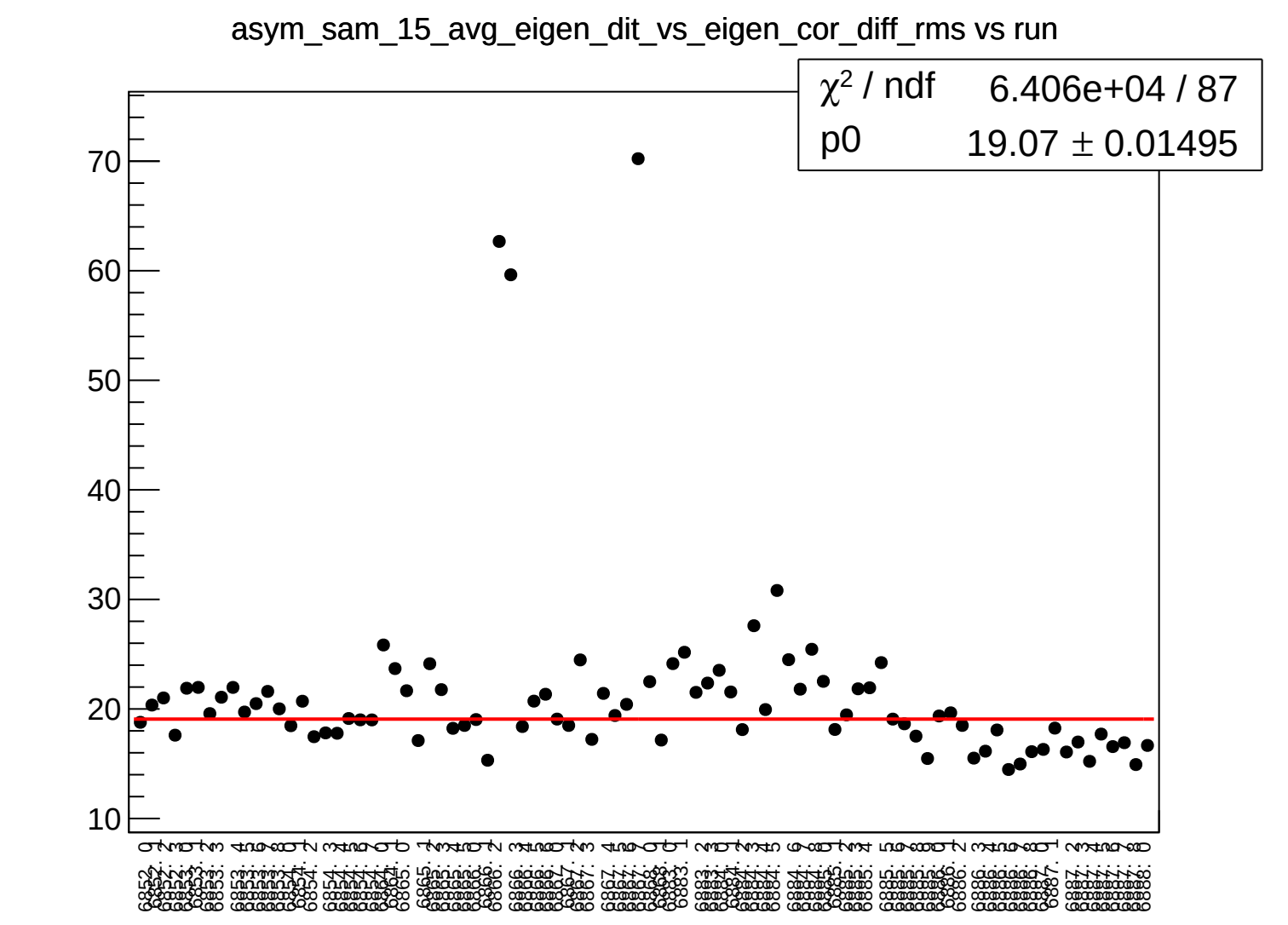

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.385e+04 / 87
p0 0.001845 ± 1.438e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

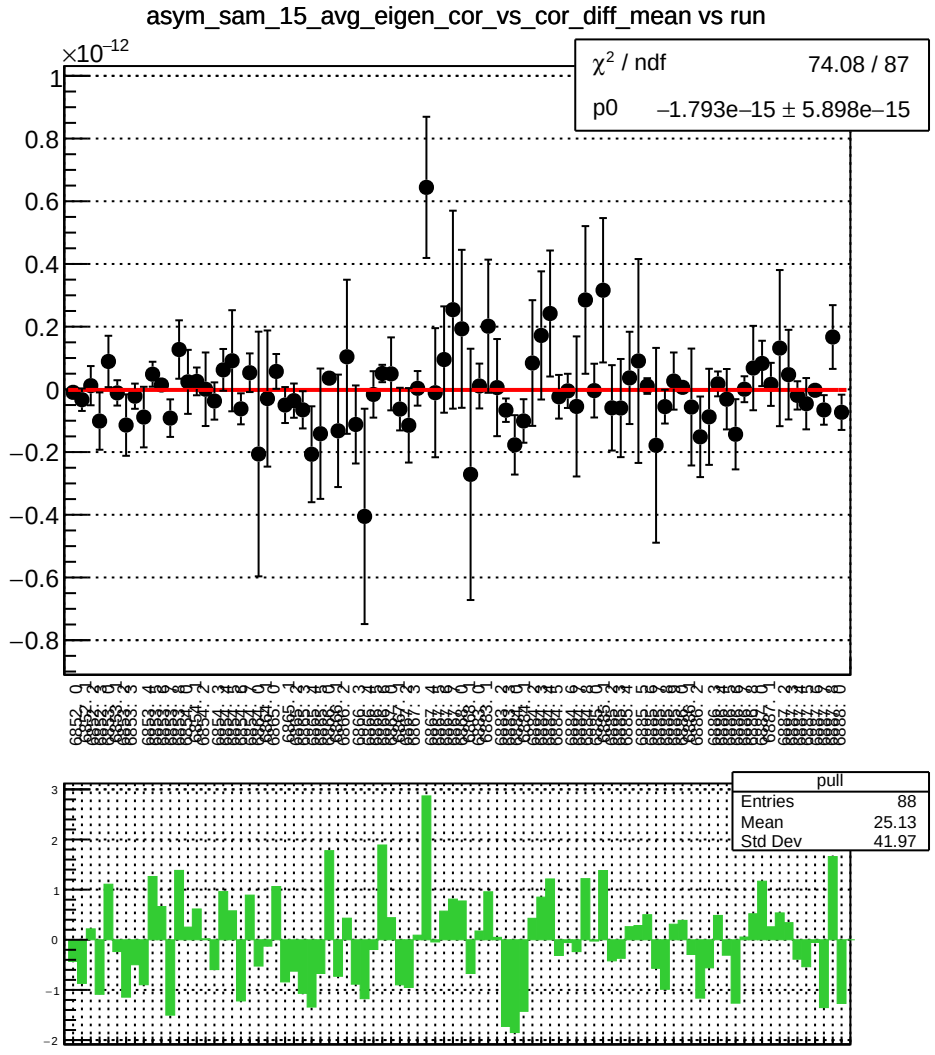

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.43 / 87
p0 0.009106 ± 0.02115
pull
Entries 88
Mean −48.98
Std Dev 0

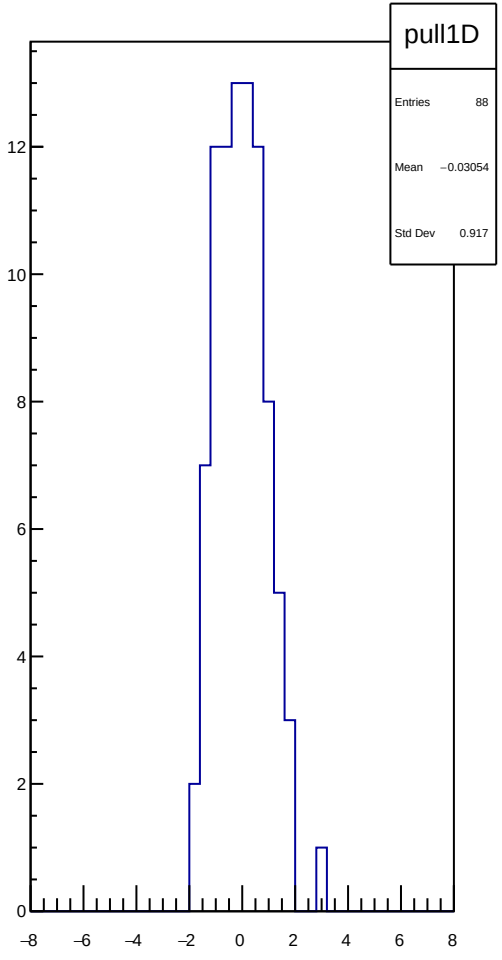

pull1D
Entries 88
Mean −0.02587
Std Dev 0.9964

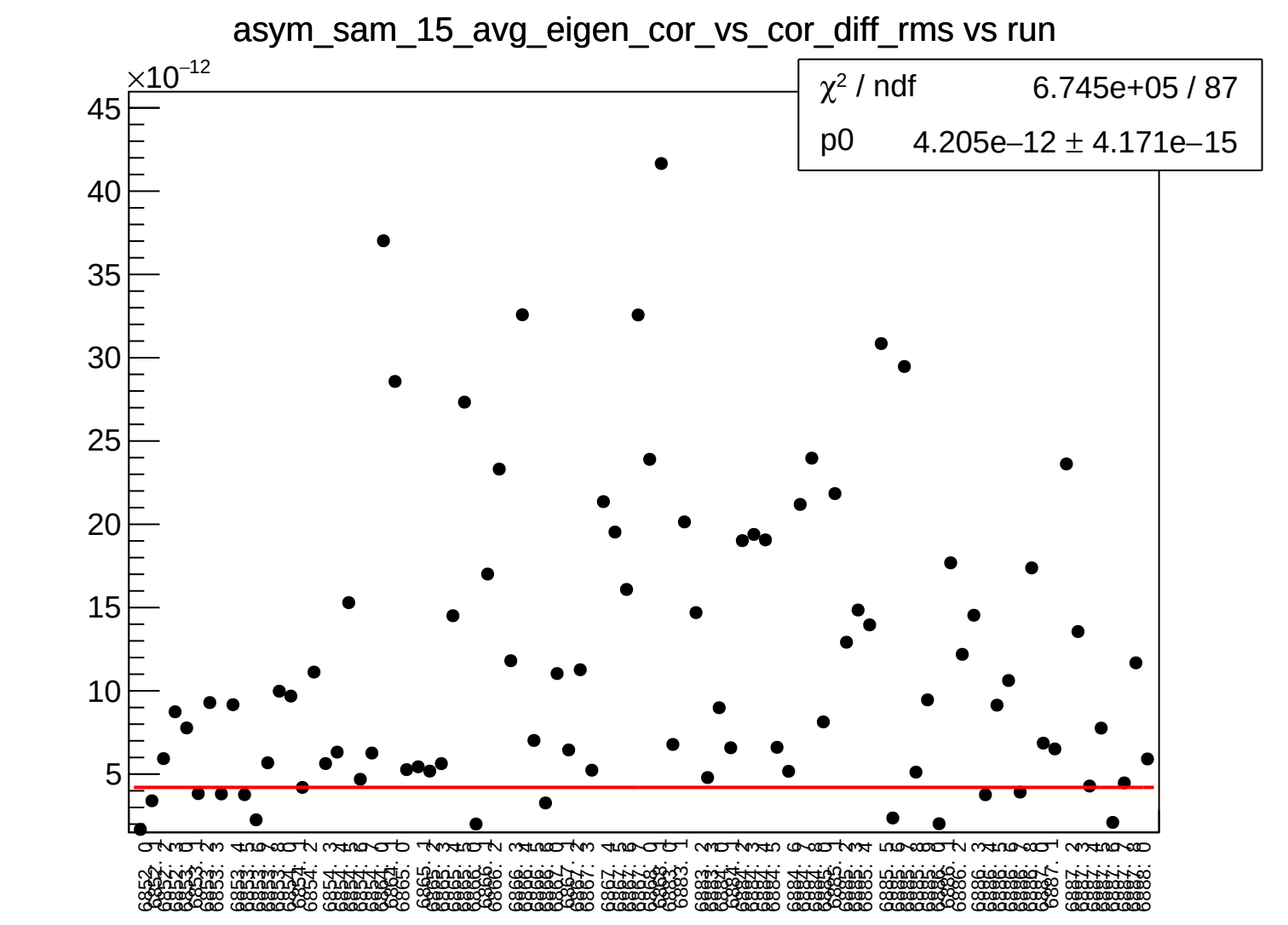

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.406e+04 / 87
p0 19.07 ± 0.01495
70
60
50
40
30
20
10

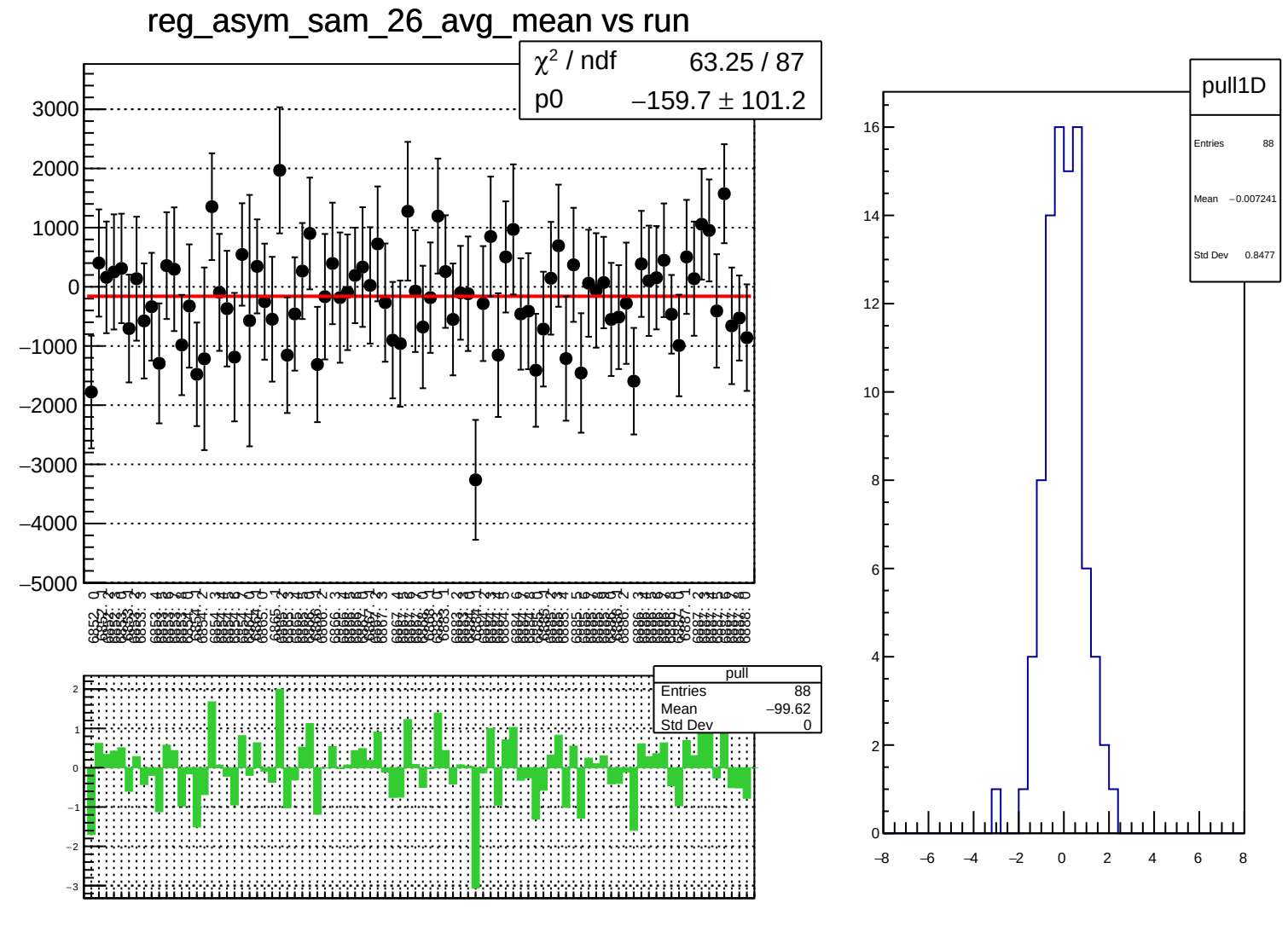

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.43 / 87
p0 0.009106 ± 0.02115
pull
Entries 88
Mean −48.98
Std Dev 0
pull1D
Entries 88
Mean −0.02587
Std Dev 0.9964

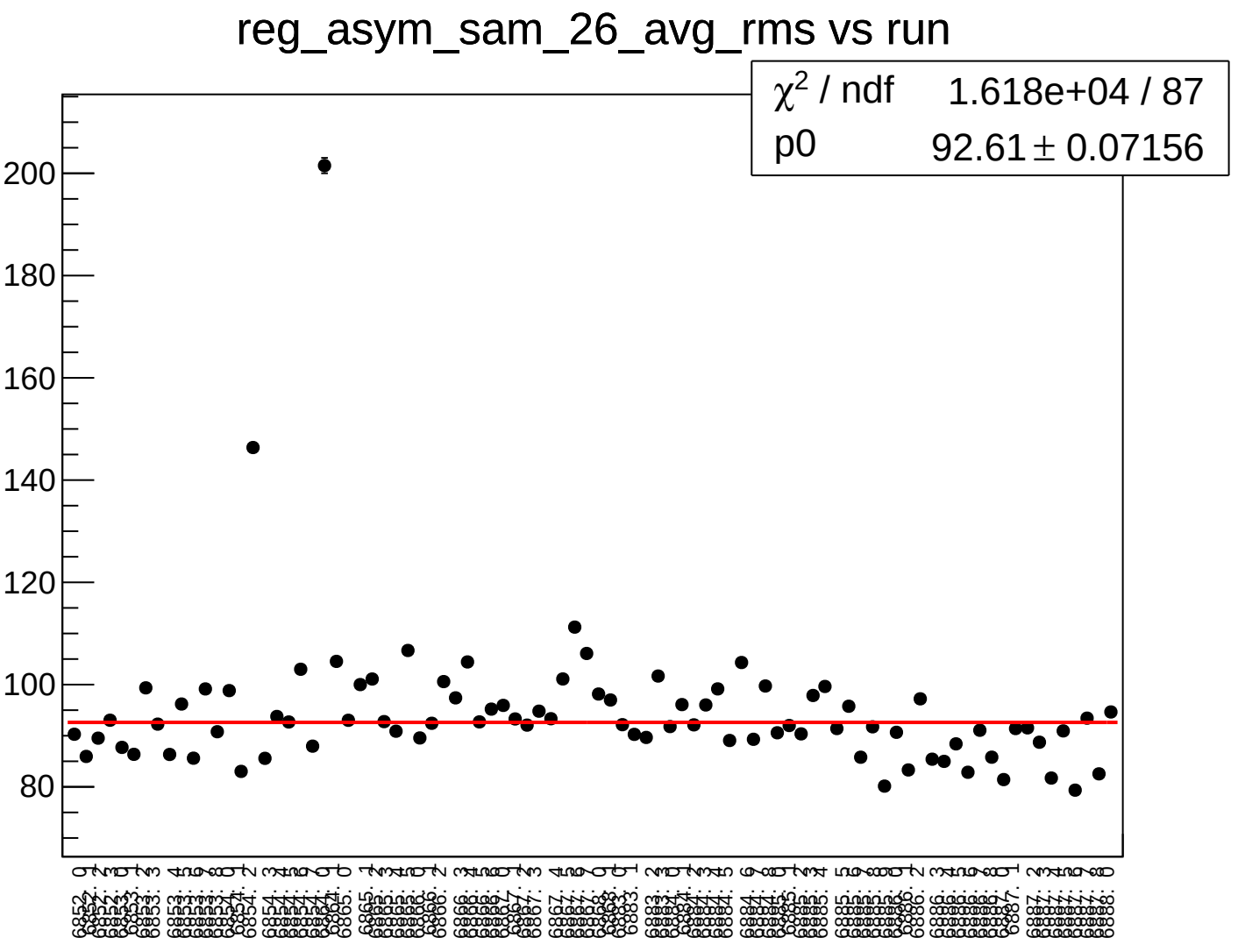

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.406e+04 / 87
p0 19.07 ± 0.01495
70
60
50
40
30
20
10

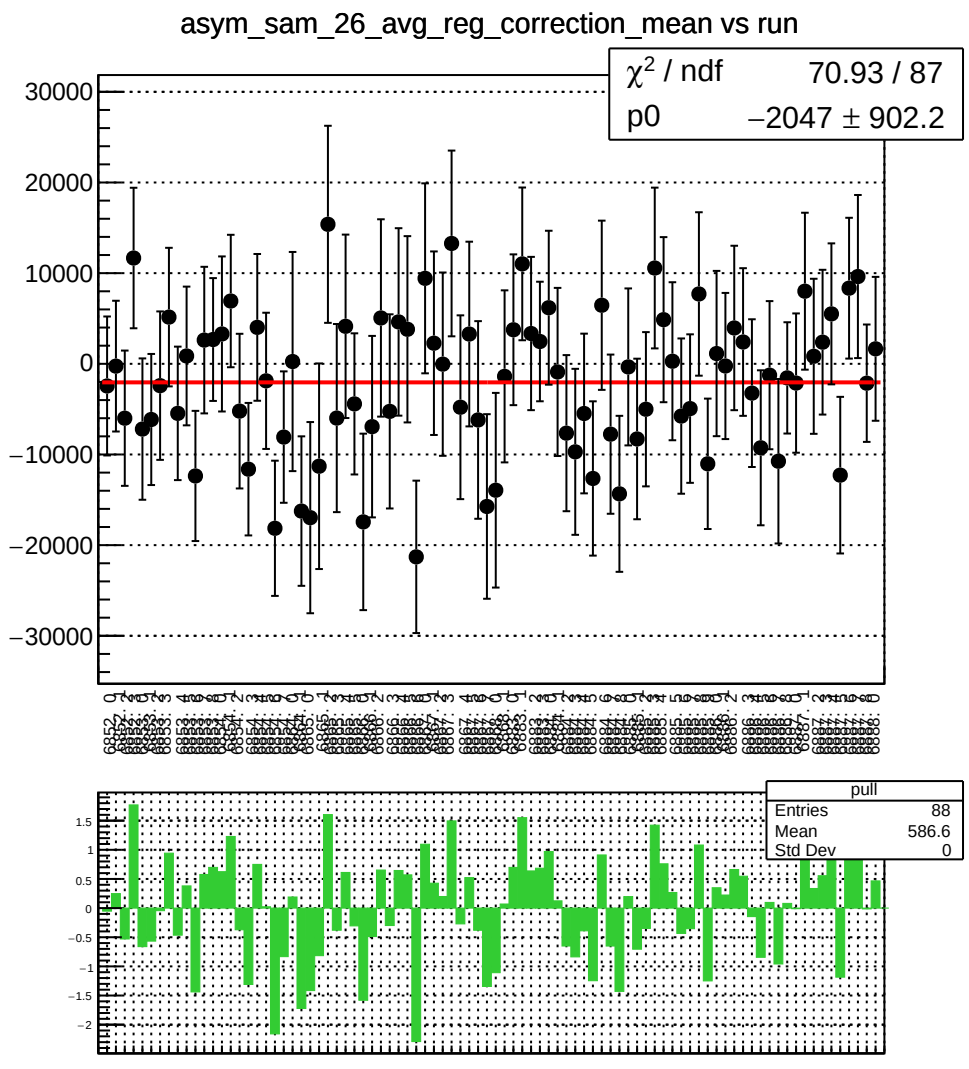

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.08 / 87
p0 −1.793e−15 ± 5.898e−15
pull
Entries 88
Mean 25.13
Std Dev 41.97

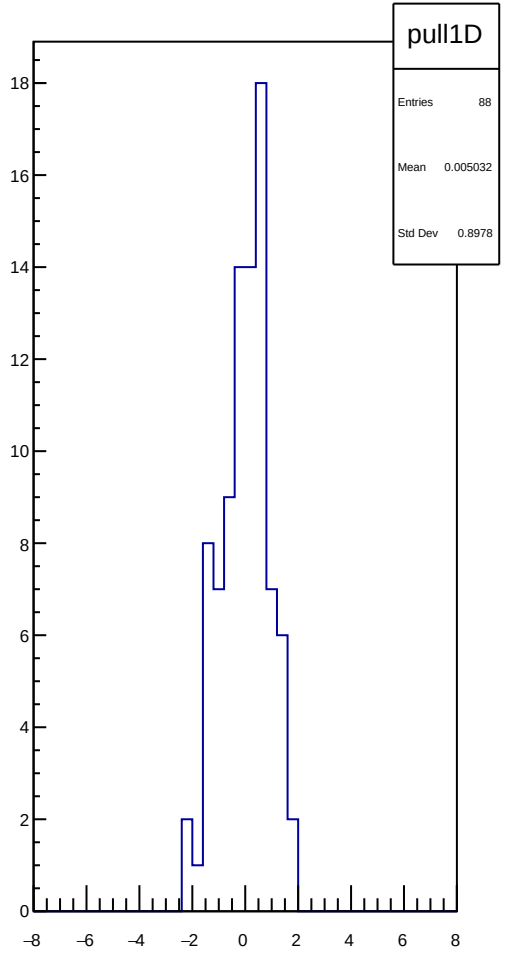

pull1D
Entries 88
Mean −0.03054
Std Dev 0.917

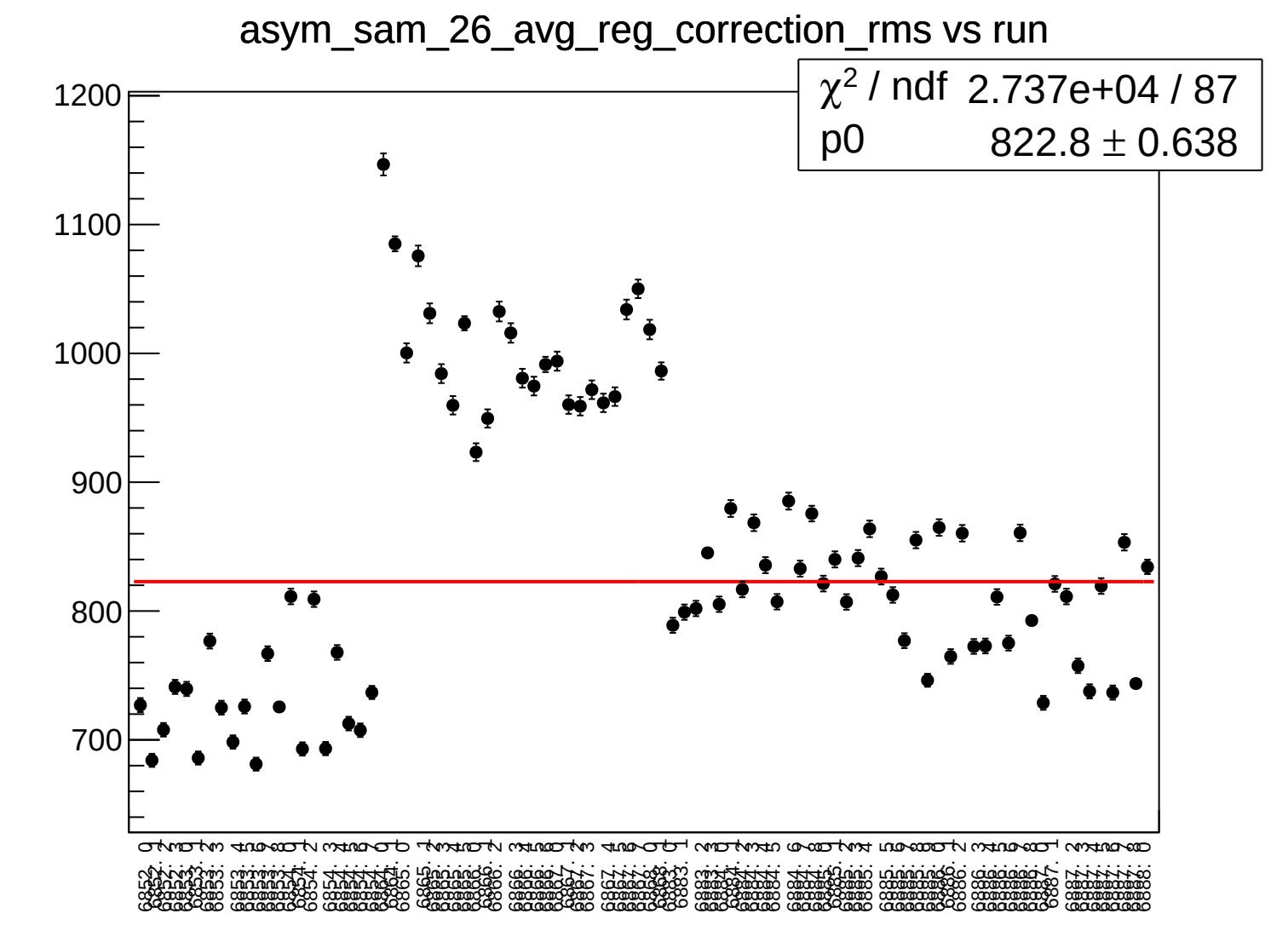

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.745e+05 / 87
p0 4.205e−12 ± 4.171e−15
45
40
35
30
25
20
15
10
5

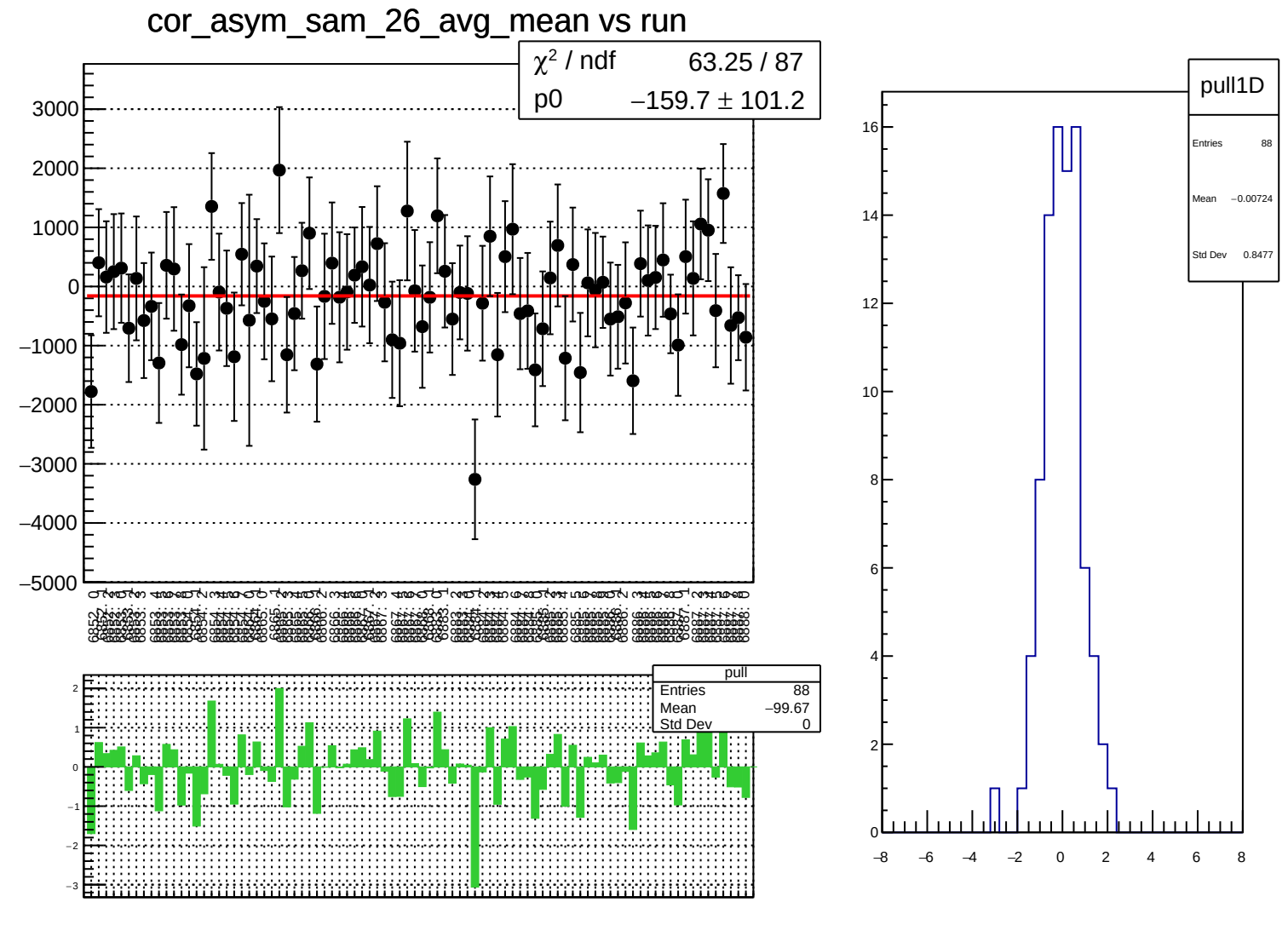

reg_asym_sam_26_avg_mean vs run
χ² / ndf 63.25 / 87
p0 −159.7 ± 101.2
pull
Entries 88
Mean −99.62
Std Dev 0
pull1D
Entries 88
Mean −0.007241
Std Dev 0.8477

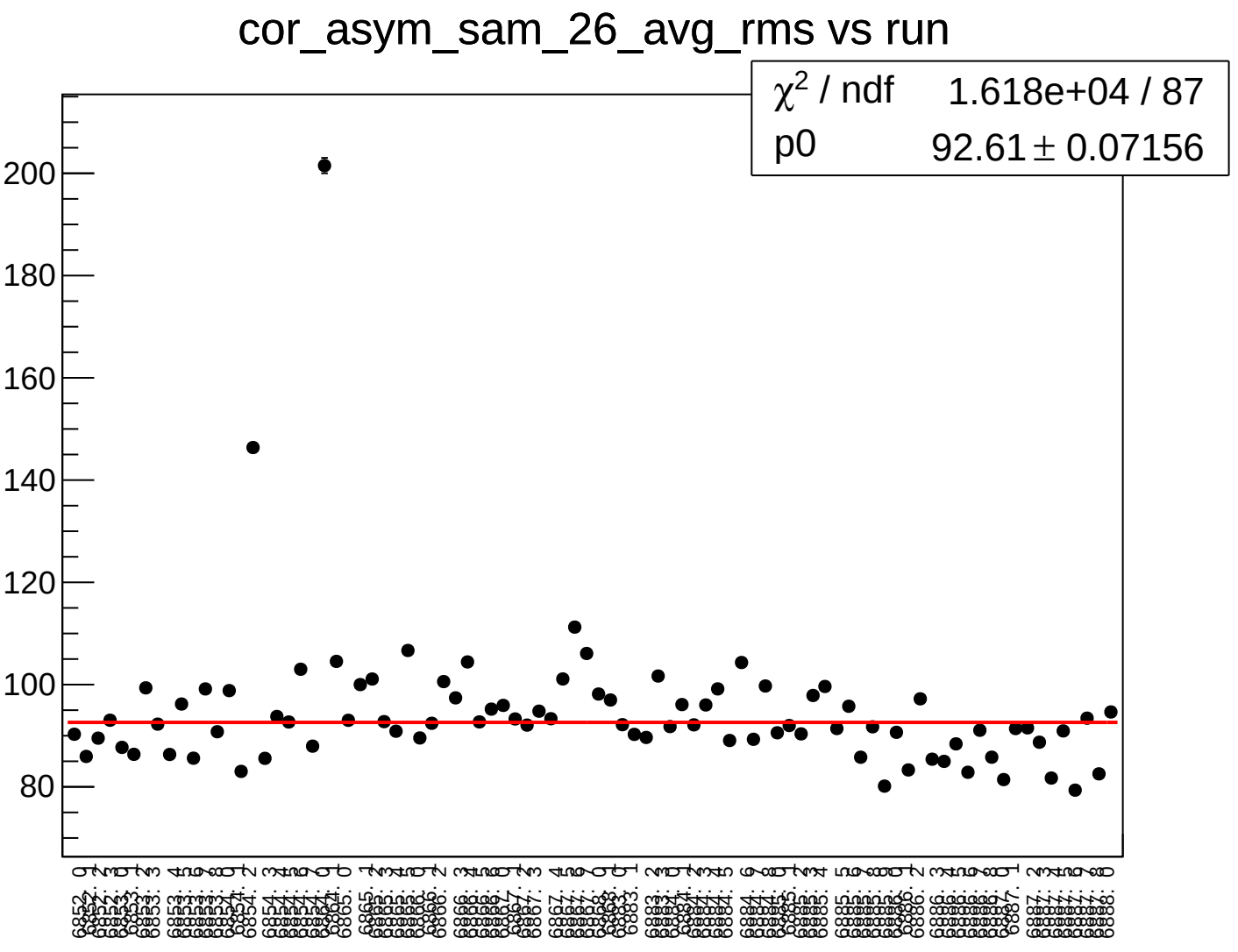

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.618e+04 / 87
p0 92.61 ± 0.07156
200
180
160
140
120
100
80

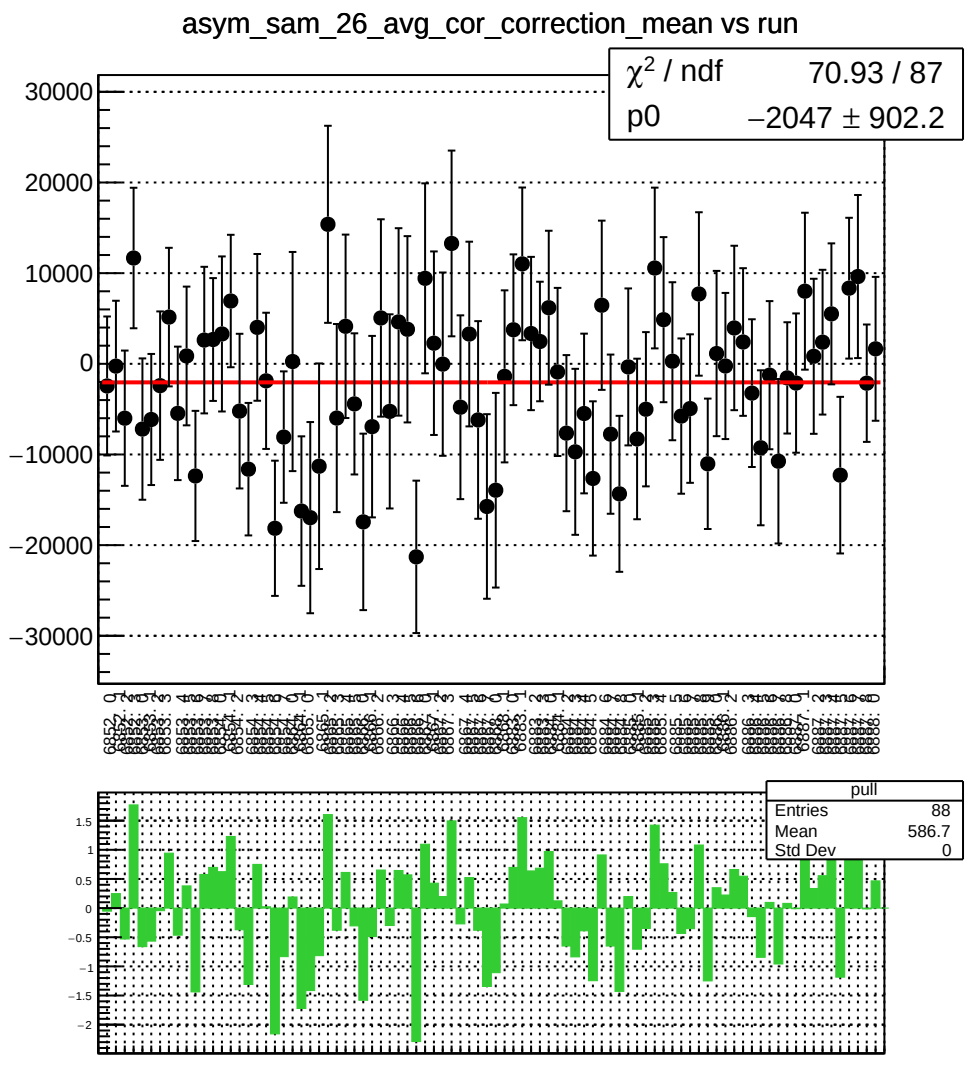

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 70.93 / 87
p0 −2047 ± 902.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 586.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

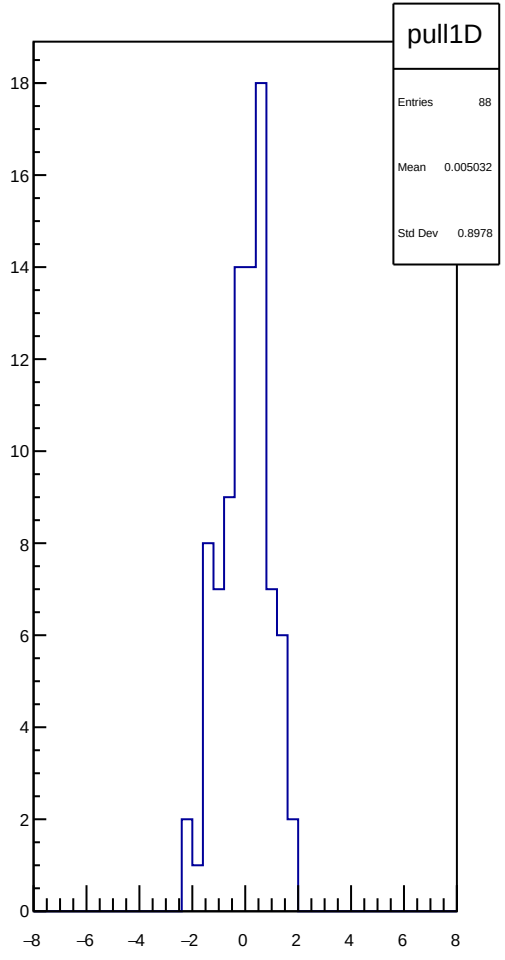

pull1D
Entries 88
Mean 0.005032
Std Dev 0.8978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

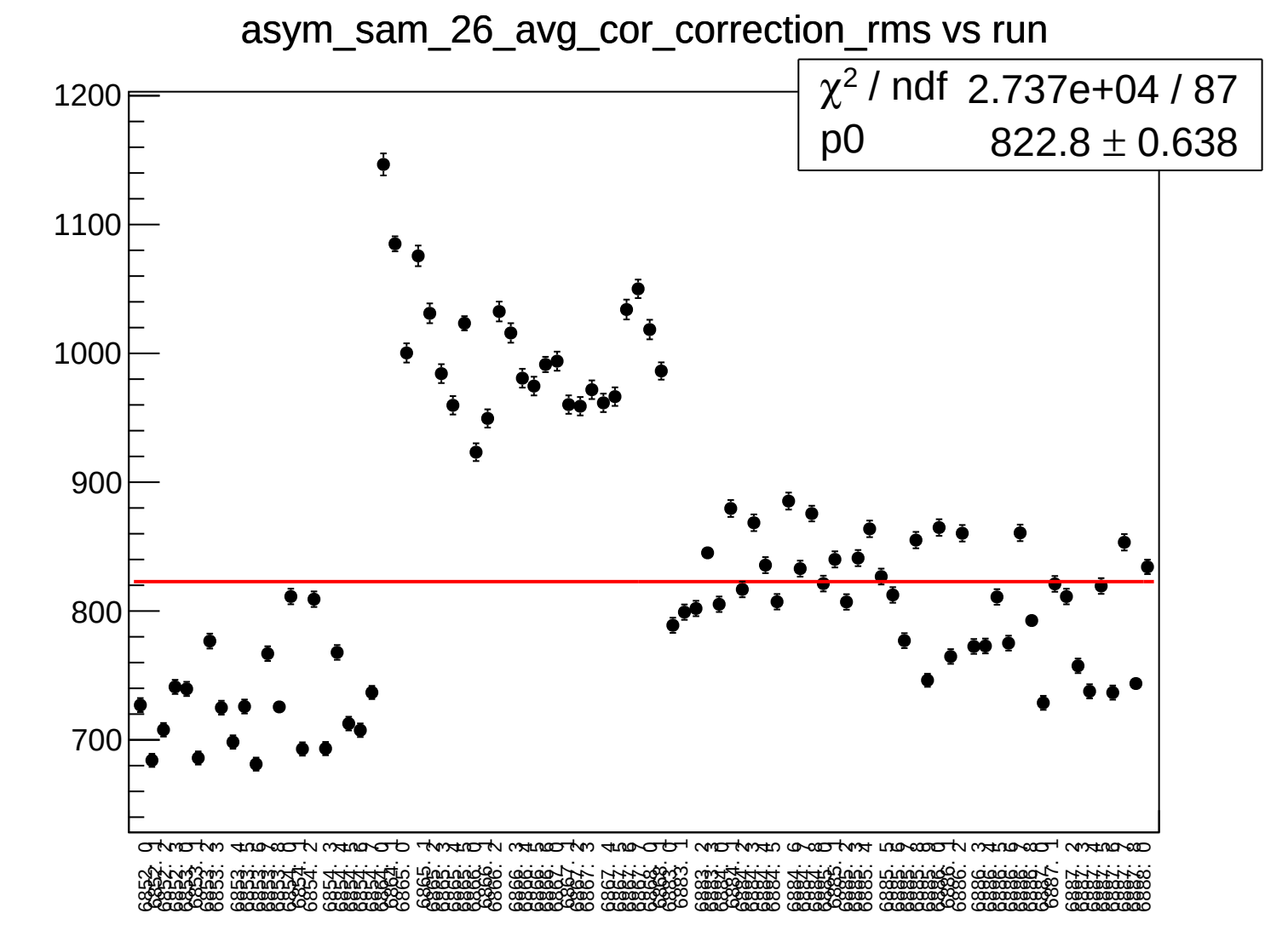

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 2.737e+04 / 87
p0 822.8 ± 0.638
1200
1100
1000
900
800
700

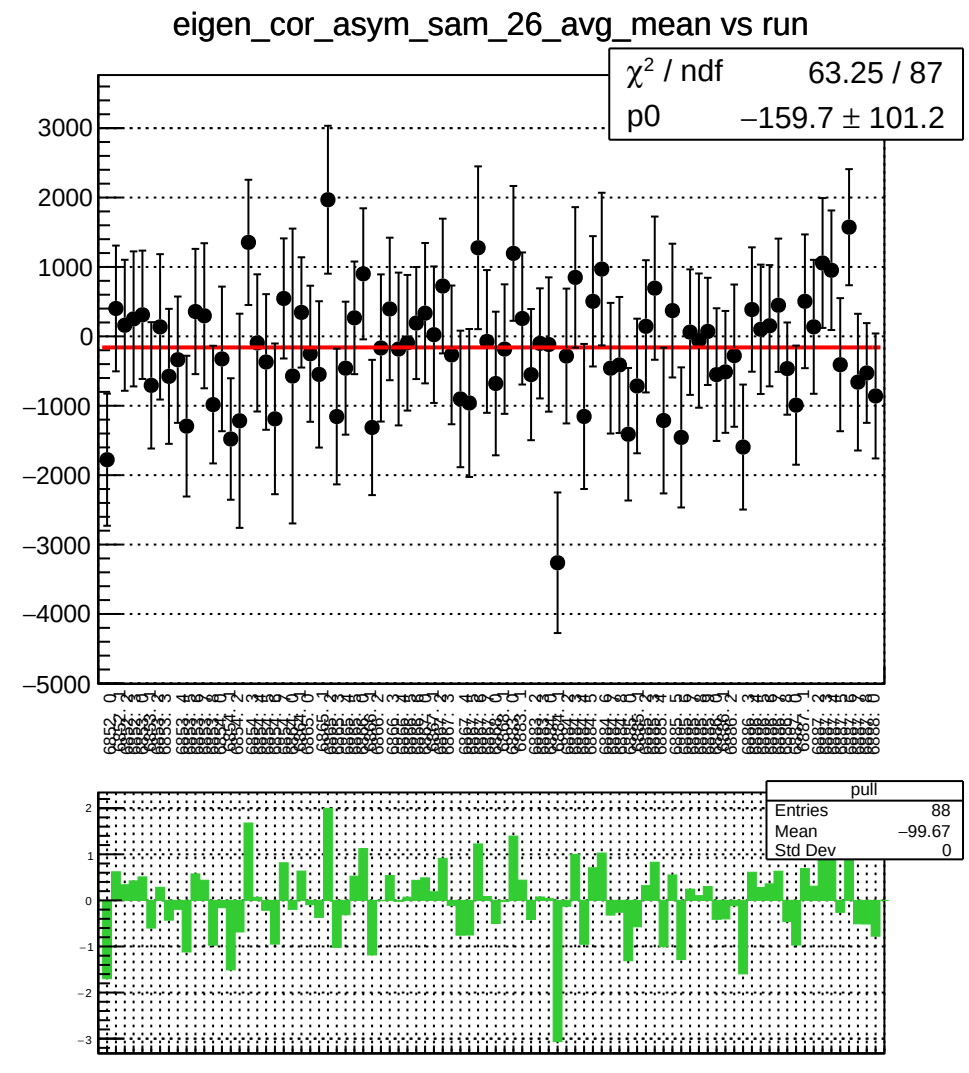

cor_asym_sam_26_avg_mean vs run
χ² / ndf 63.25 / 87
p0 −159.7 ± 101.2
pull
Entries 88
Mean −99.67
Std Dev 0
pull1D
Entries 88
Mean −0.00724
Std Dev 0.8477

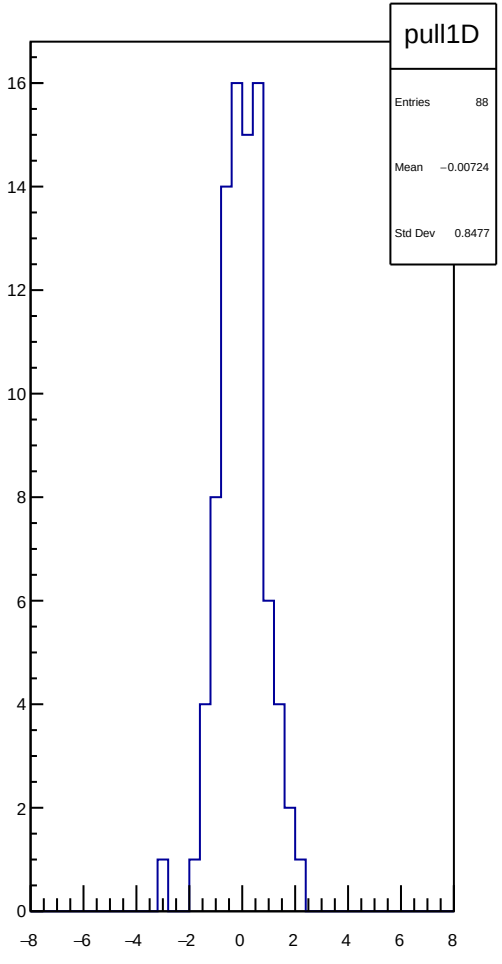

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.618e+04 / 87
p0 92.61 ± 0.07156
200
180
160
140
120
100
80

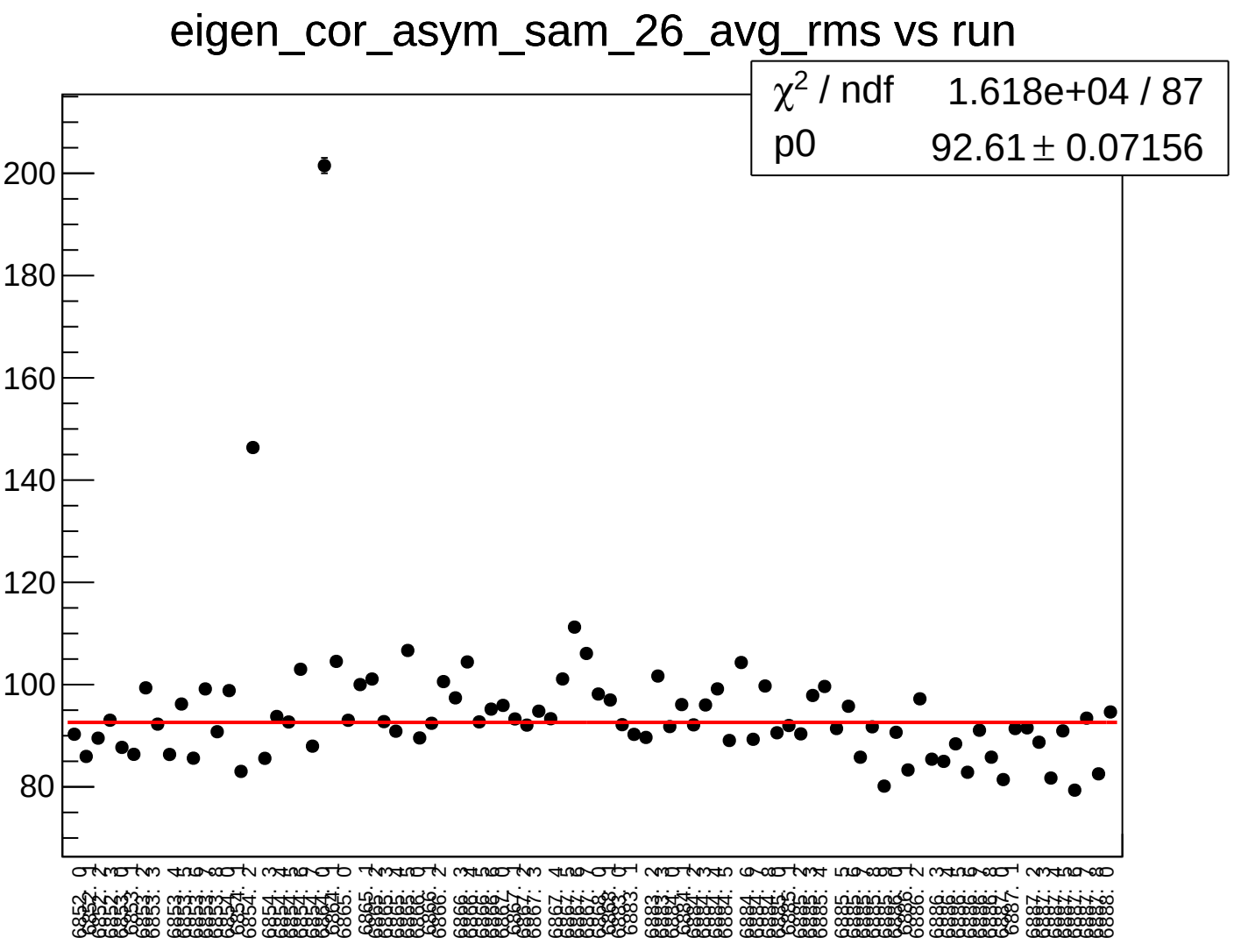

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 70.93 / 87
p0 −2047 ± 902.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 586.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

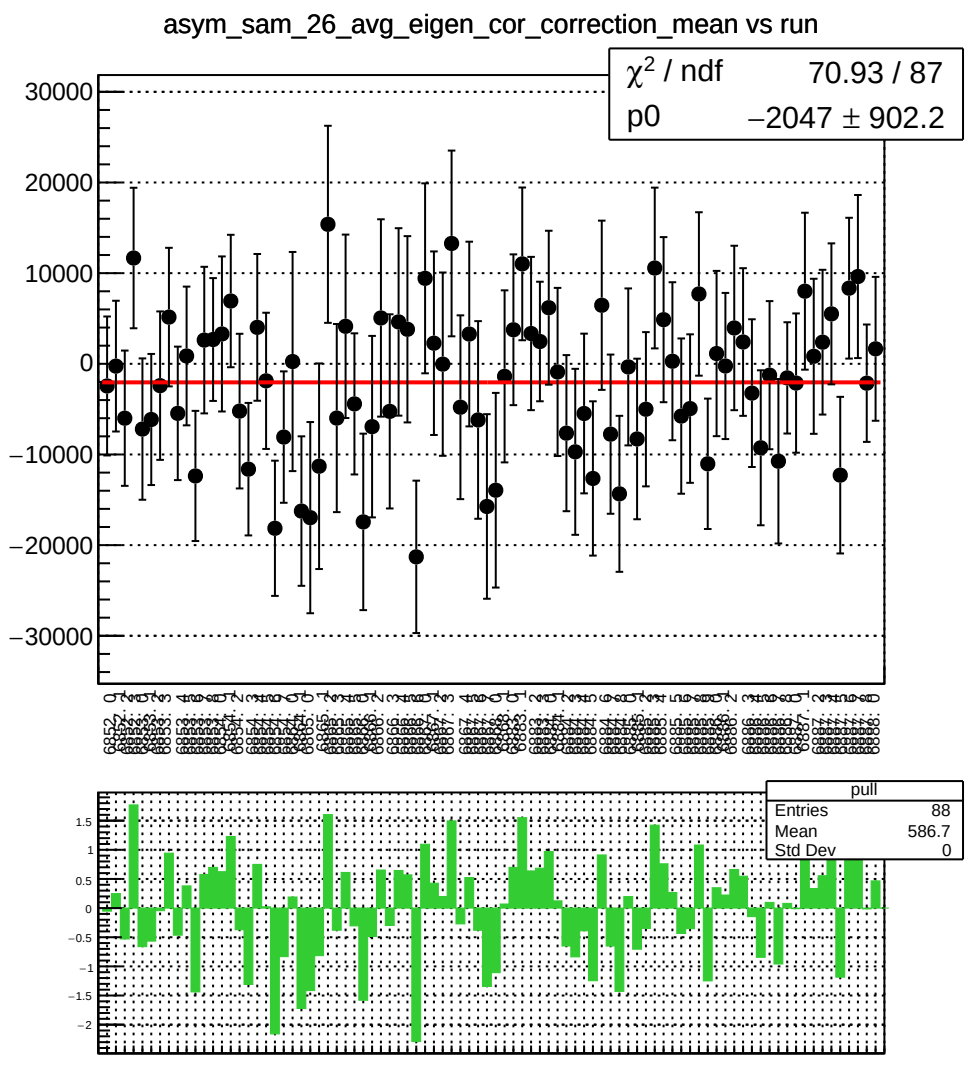

pull1D
Entries 88
Mean 0.005032
Std Dev 0.8978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

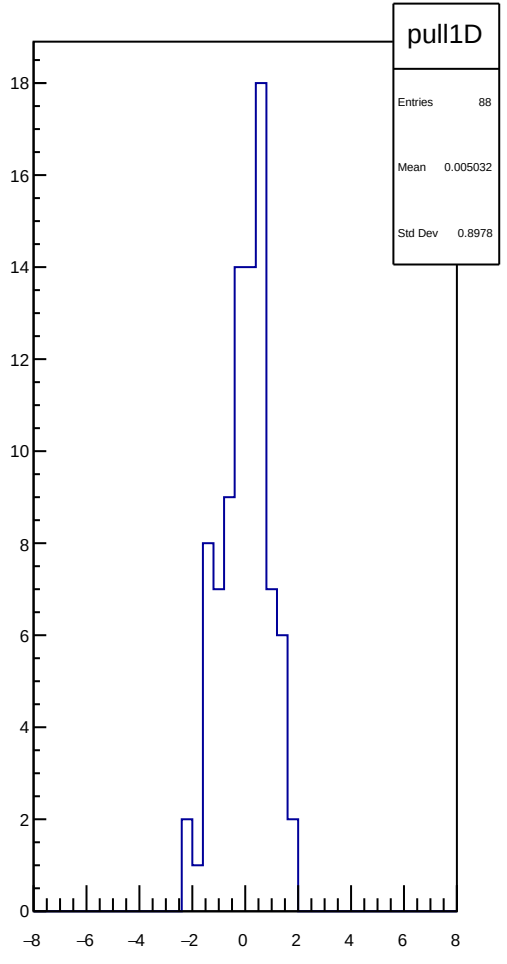

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 2.737e+04 / 87
p0 822.8 ± 0.638
1200
1100
1000
900
800
700

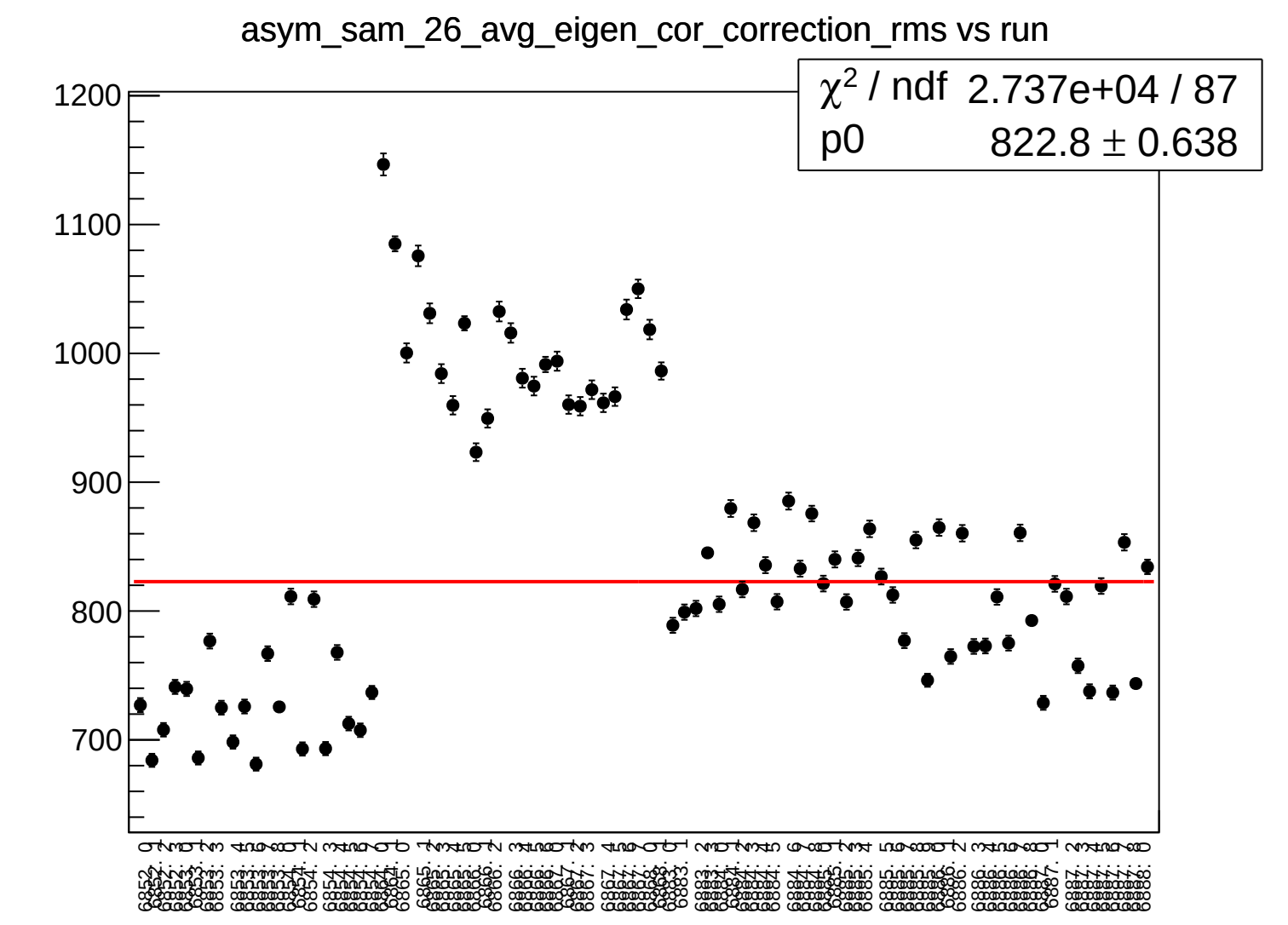

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 63.25 / 87
p0 −159.7 ± 101.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 88
Mean −99.67
Std Dev 0
2
1
0
−1
−2
−3

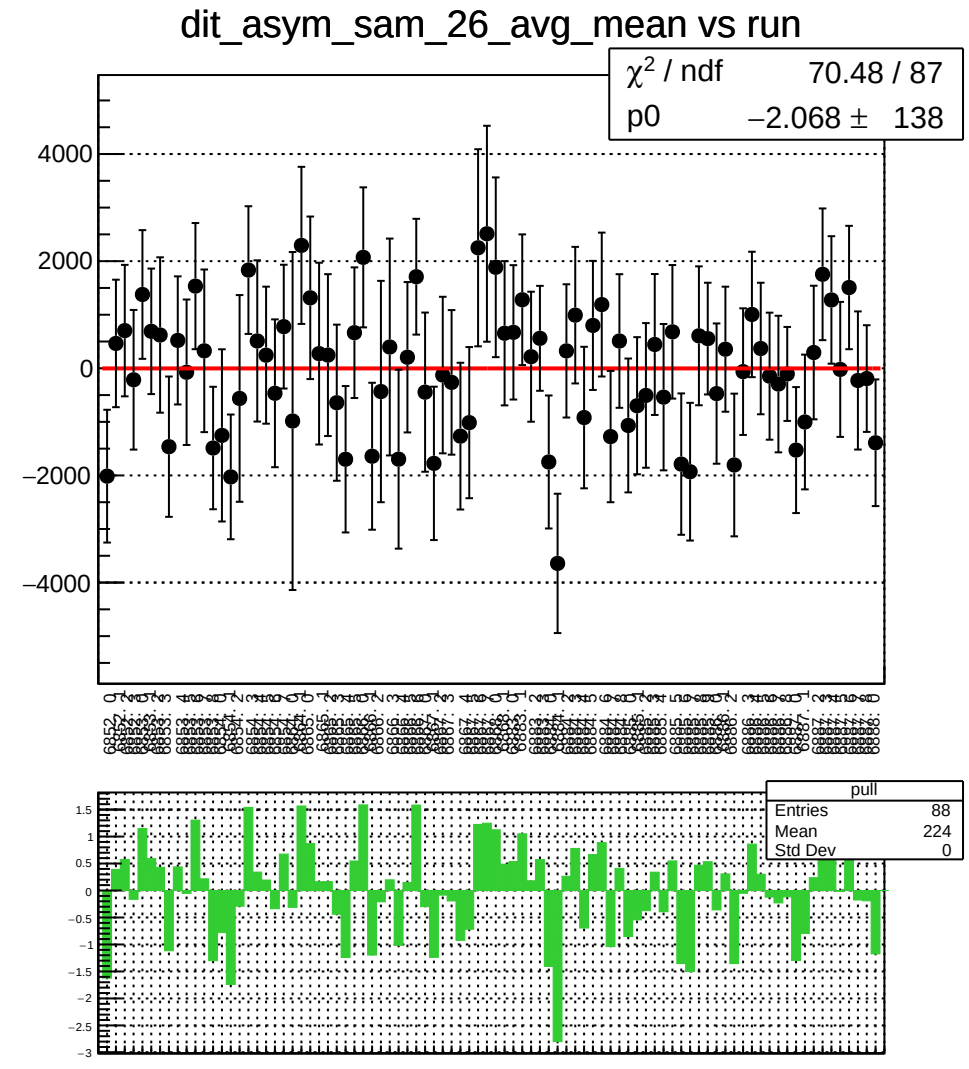

pull1D
Entries 88
Mean −0.00724
Std Dev 0.8477
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

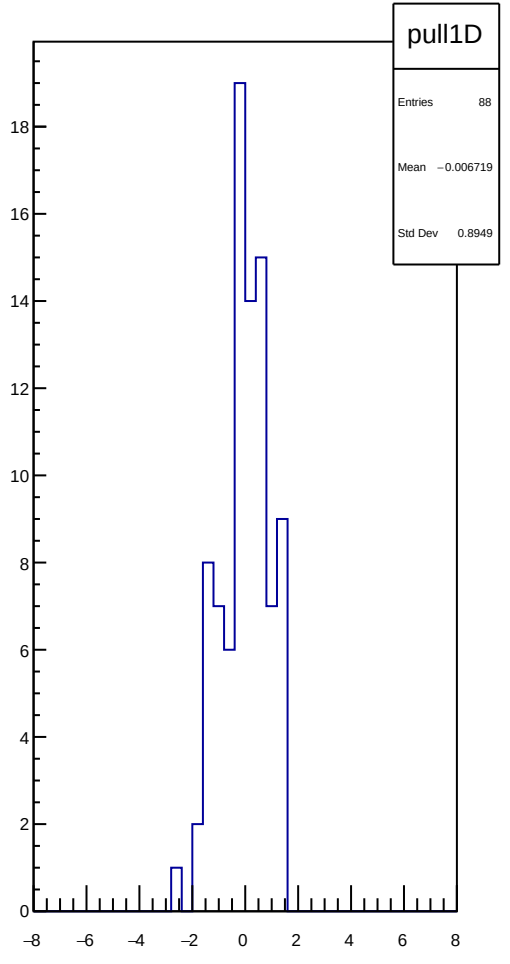

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.618e+04 / 87
p0 92.61 ± 0.07156
200
180
160
140
120
100
80

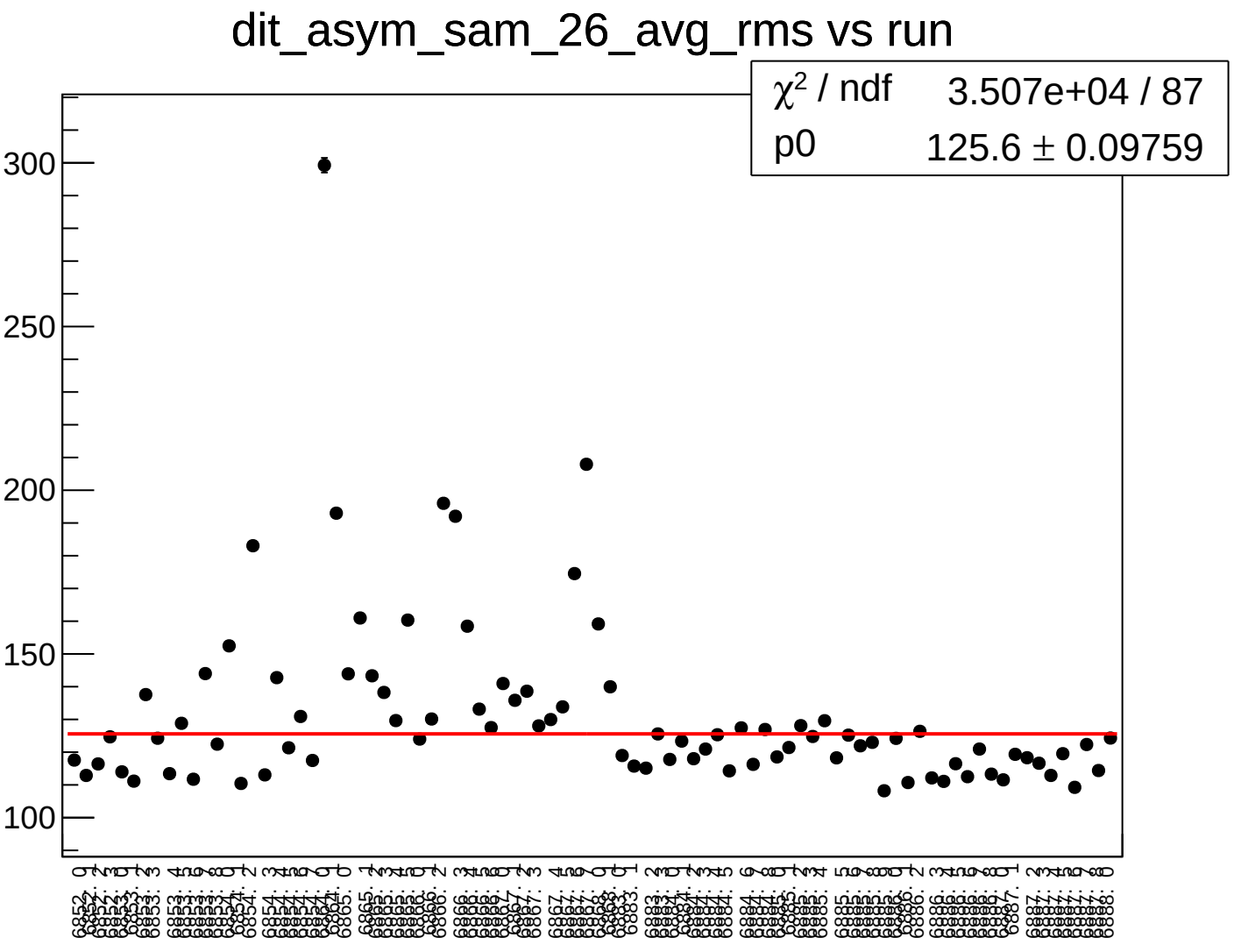

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.93 / 87
p0 −2047 ± 902.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 586.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

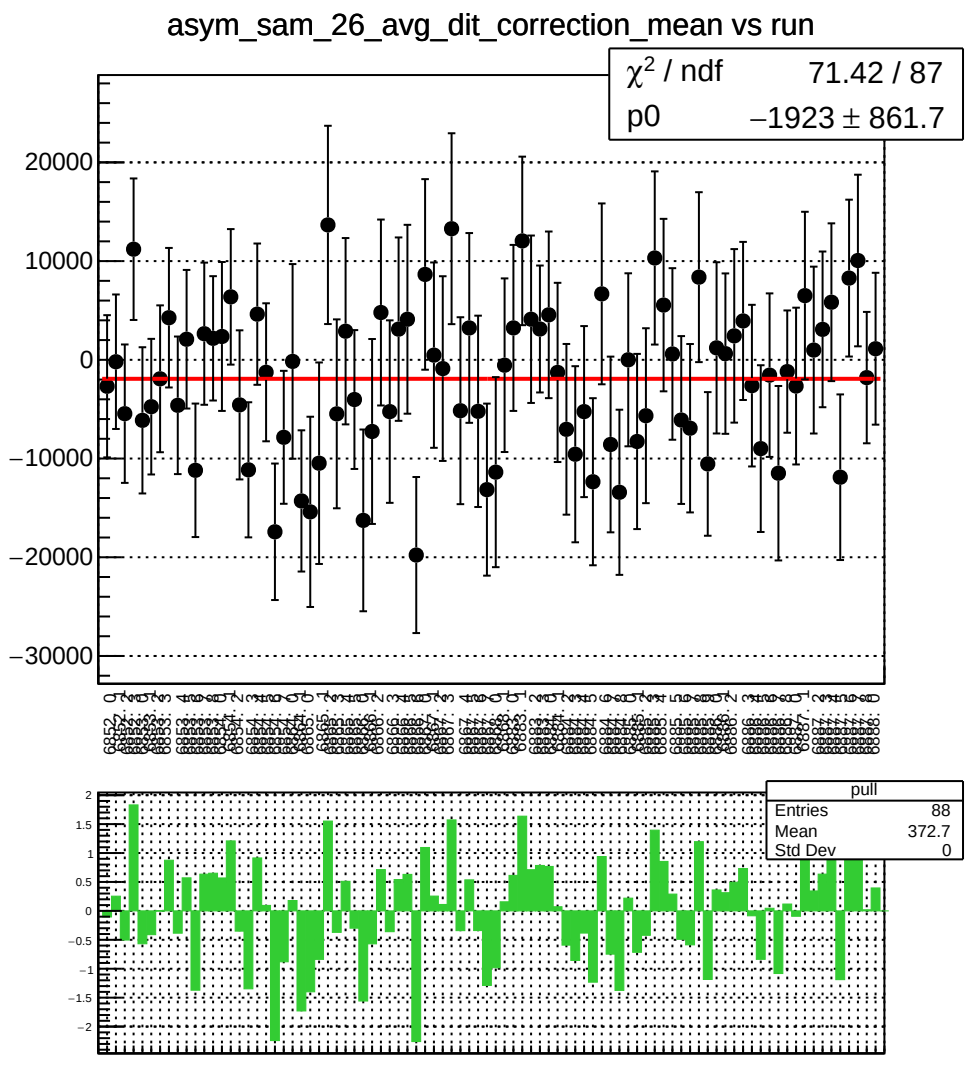

pull1D
Entries 88
Mean 0.005032
Std Dev 0.8978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

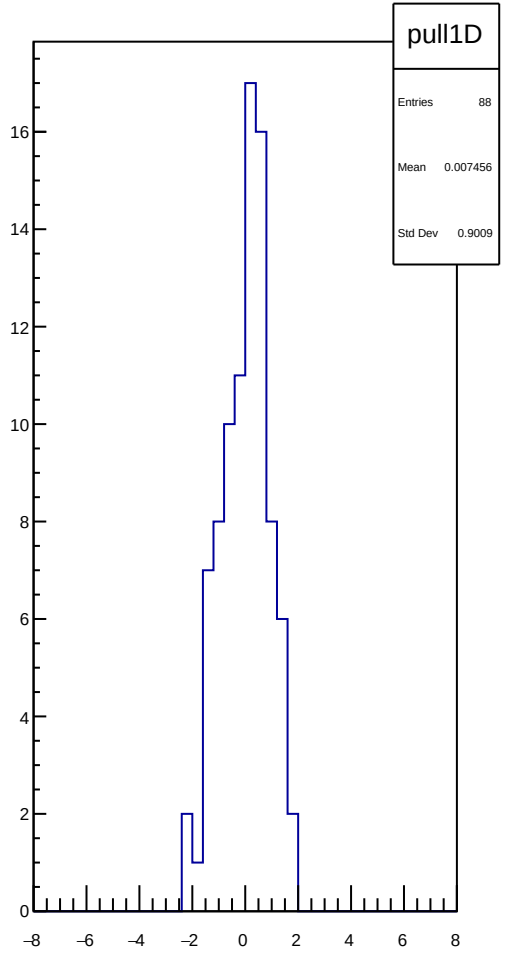

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.737e+04 / 87
p0 822.8 ± 0.638
1200
1100
1000
900
800
700

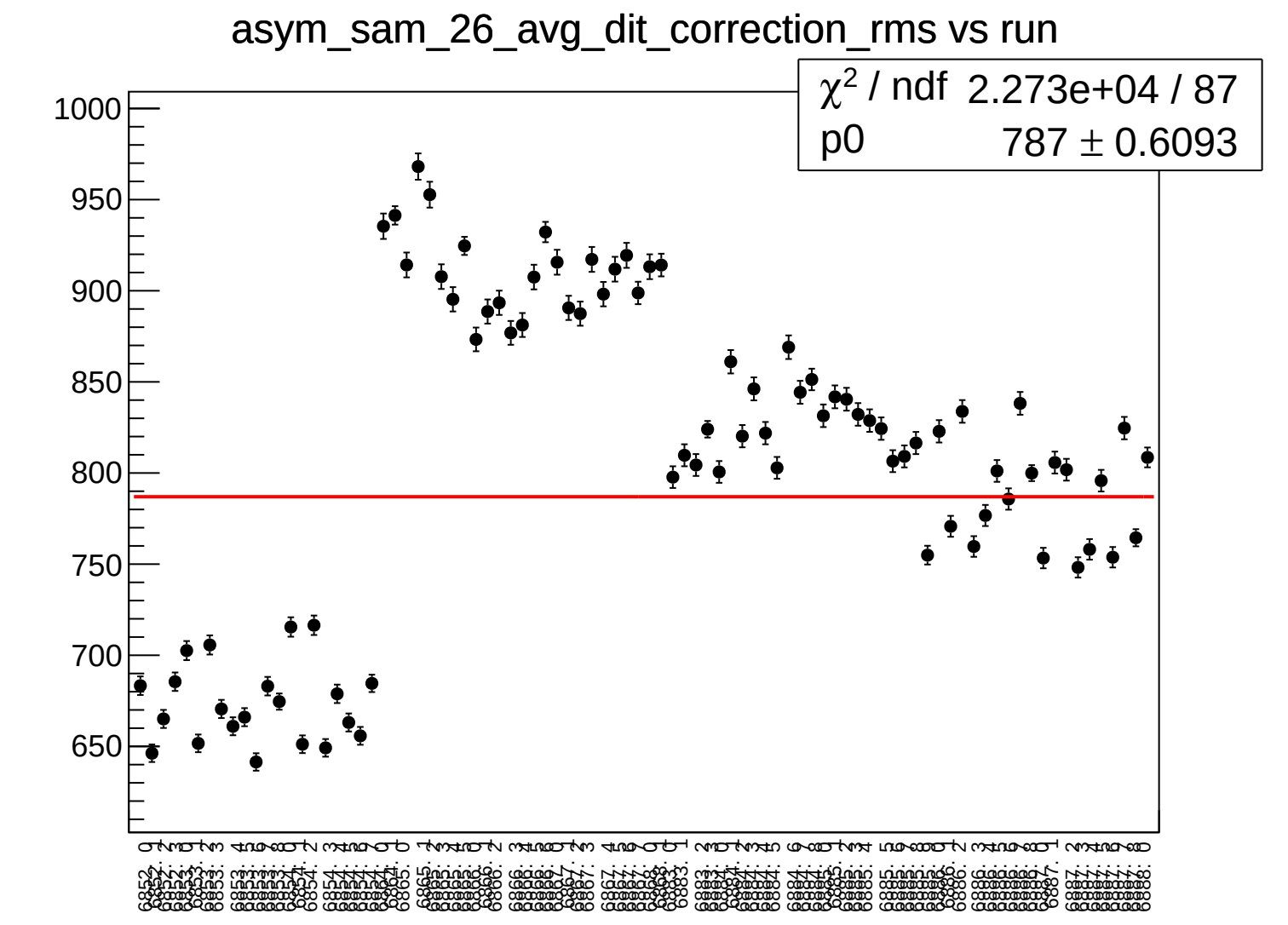

dit_asym_sam_26_avg_mean vs run
χ² / ndf 70.48 / 87
p0 −2.068 ± 138
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 224
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

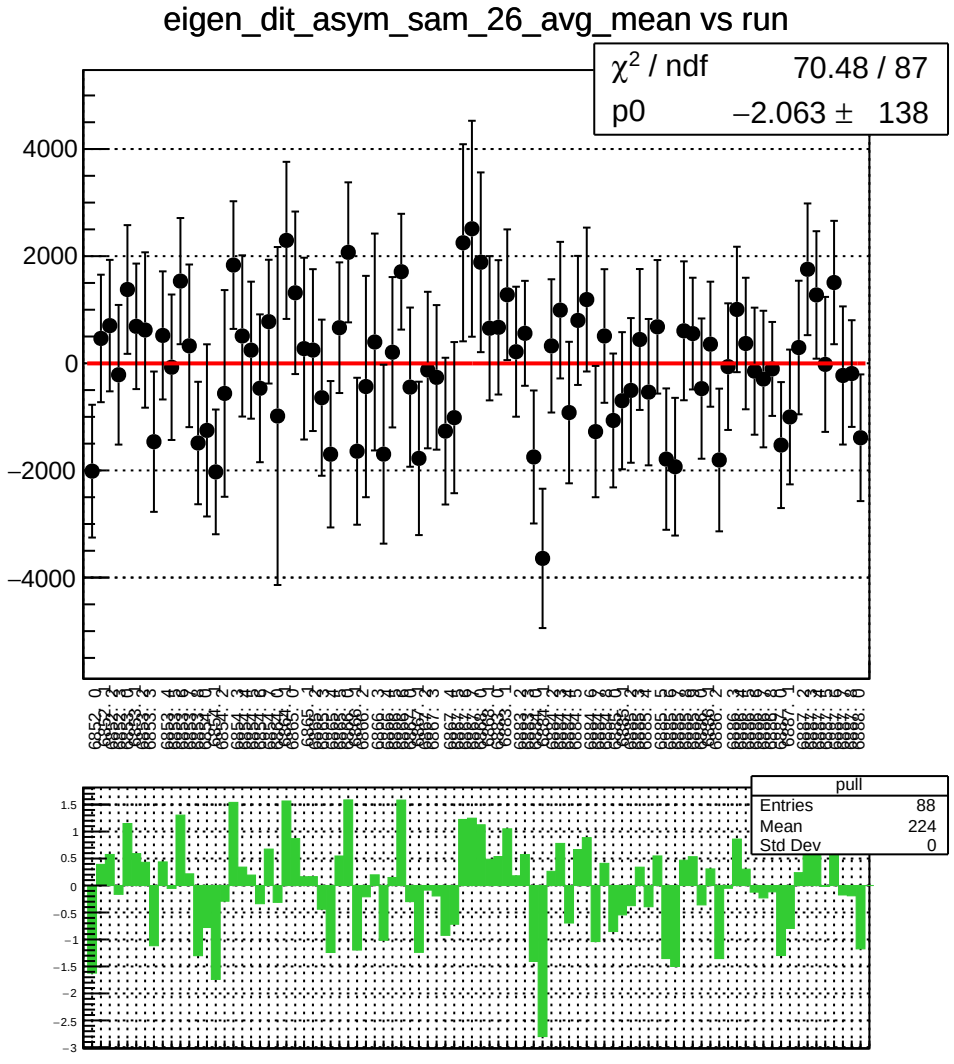

pull1D
Entries 88
Mean −0.006719
Std Dev 0.8949
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

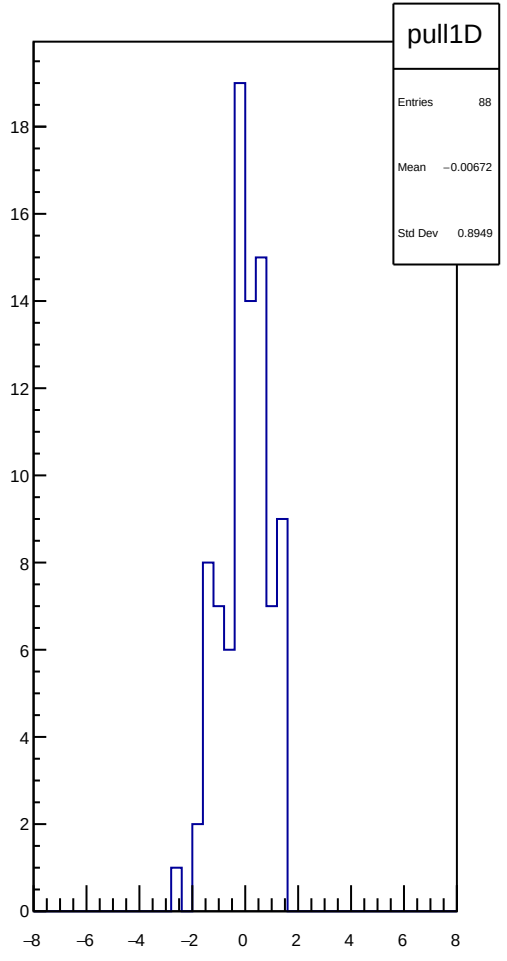

dit_asym_sam_26_avg_rms vs run
χ² / ndf 3.507e+04 / 87
p0 125.6 ± 0.09759
300
250
200
150
100

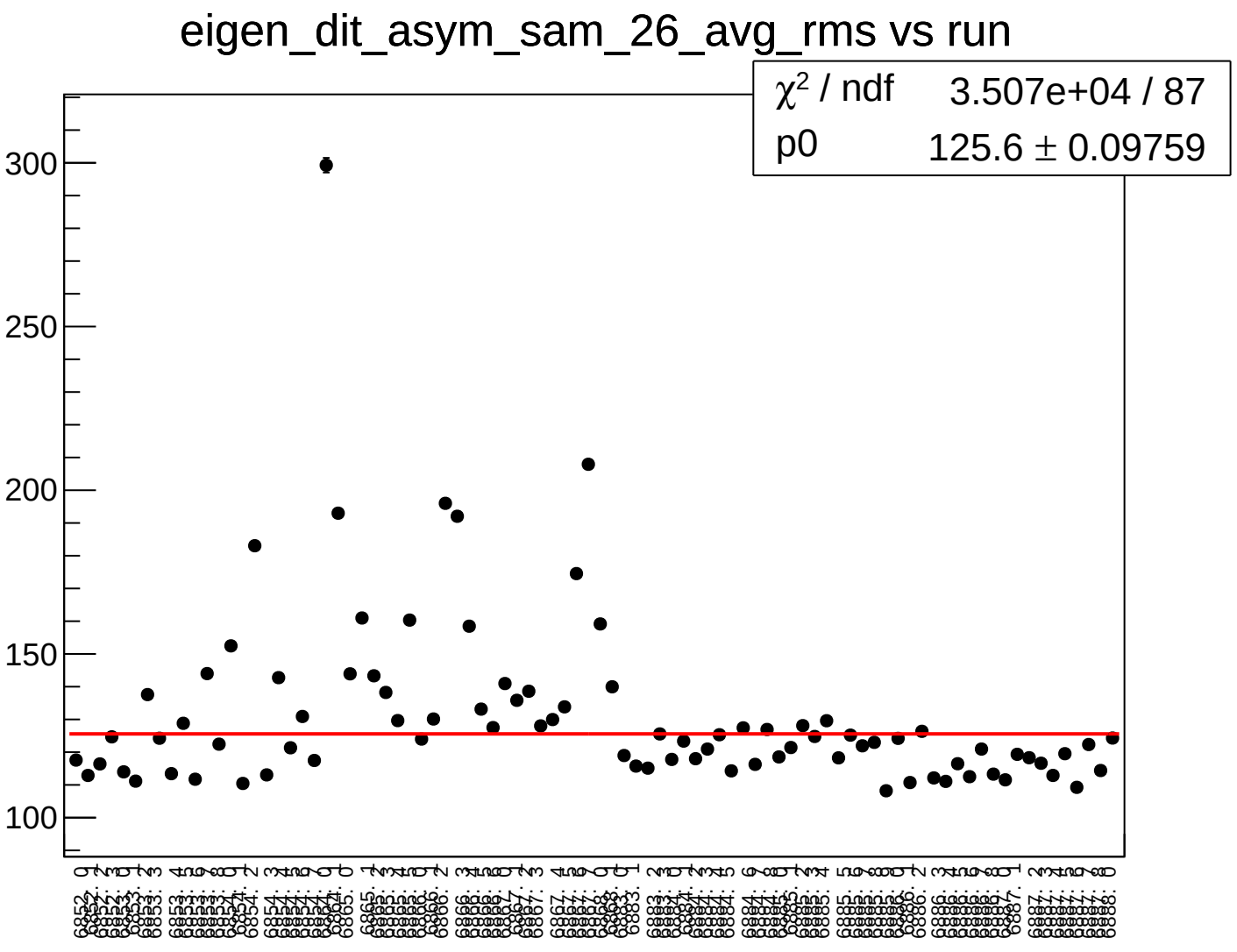

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 71.42 / 87
p0 −1923 ± 861.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 372.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

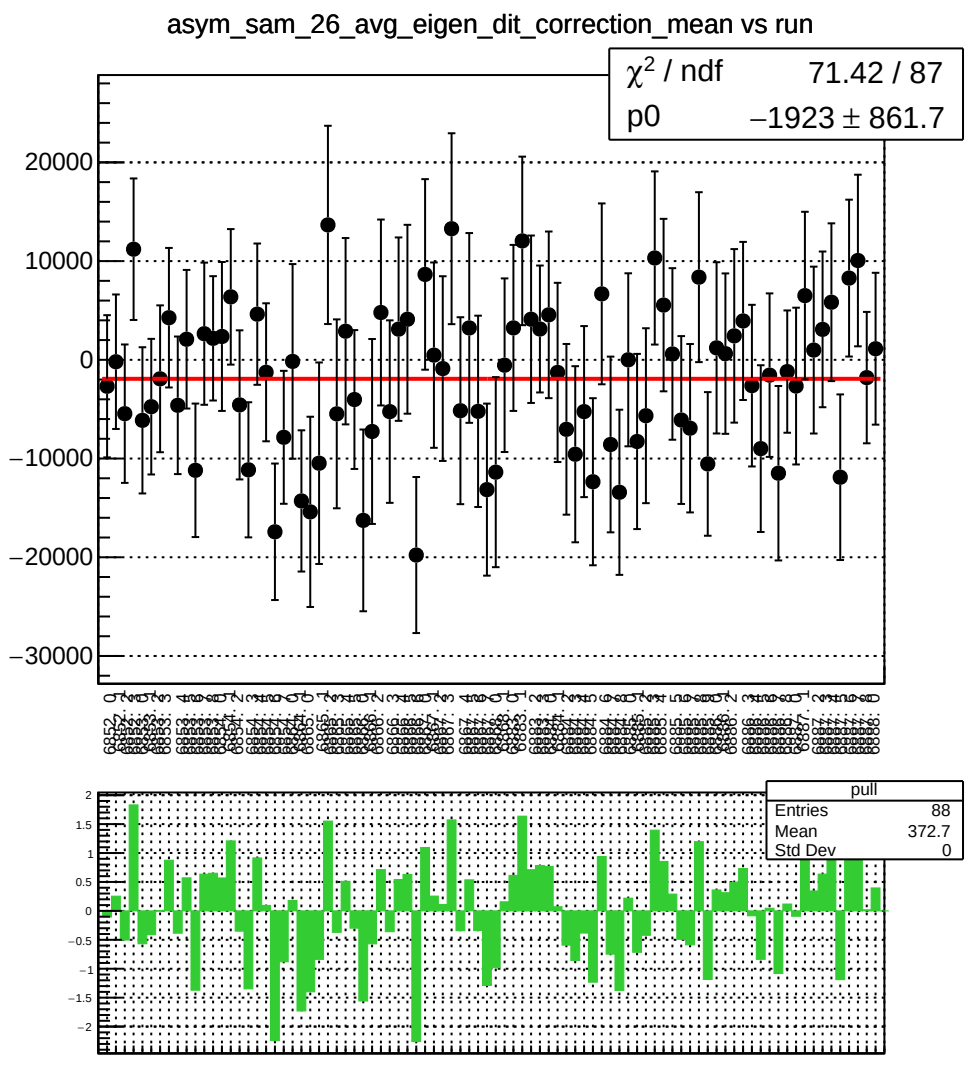

pull1D
Entries 88
Mean 0.007456
Std Dev 0.9009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

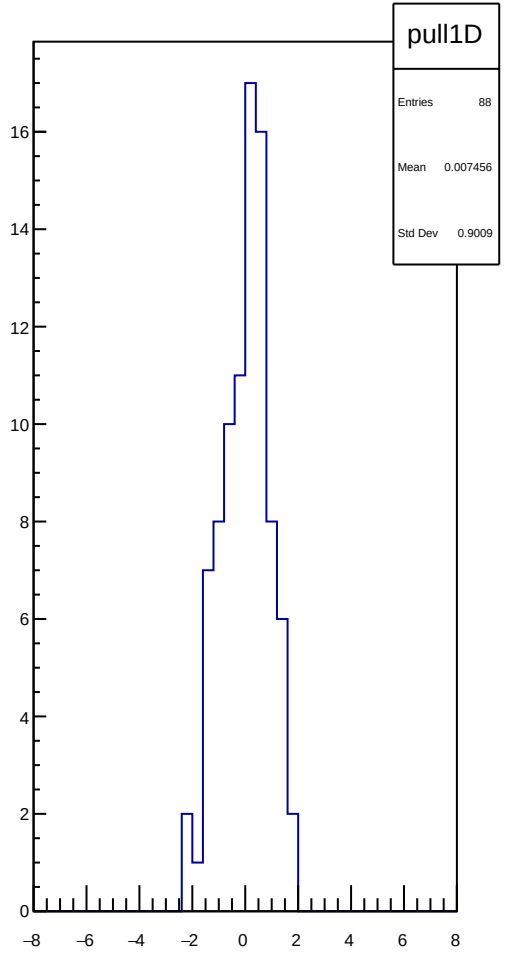

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 2.273e+04 / 87
p0 787 ± 0.6093
1000
950
900
850
800
750
700
650

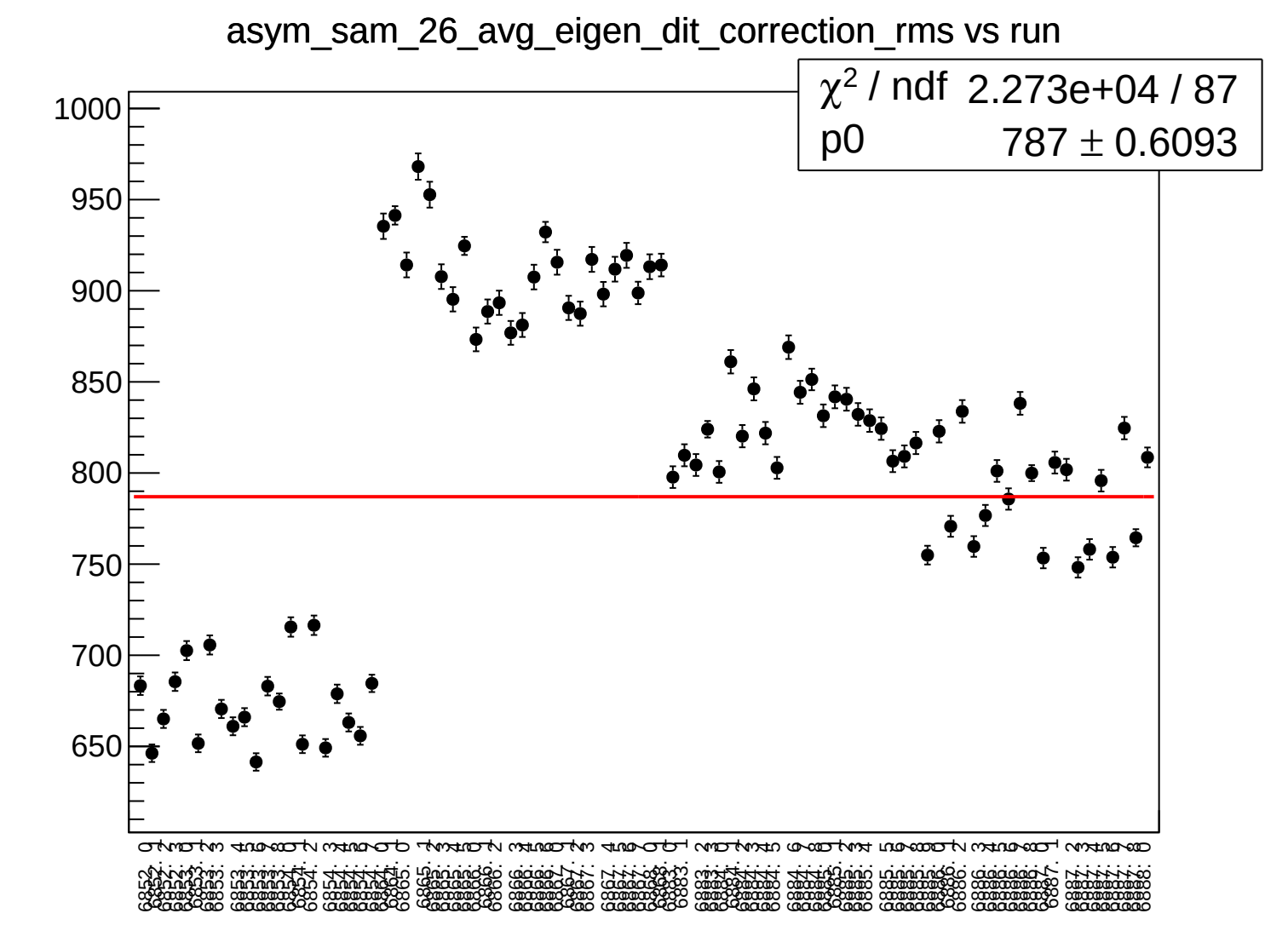

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 70.48 / 87
p0 −2.063 ± 138
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 224
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

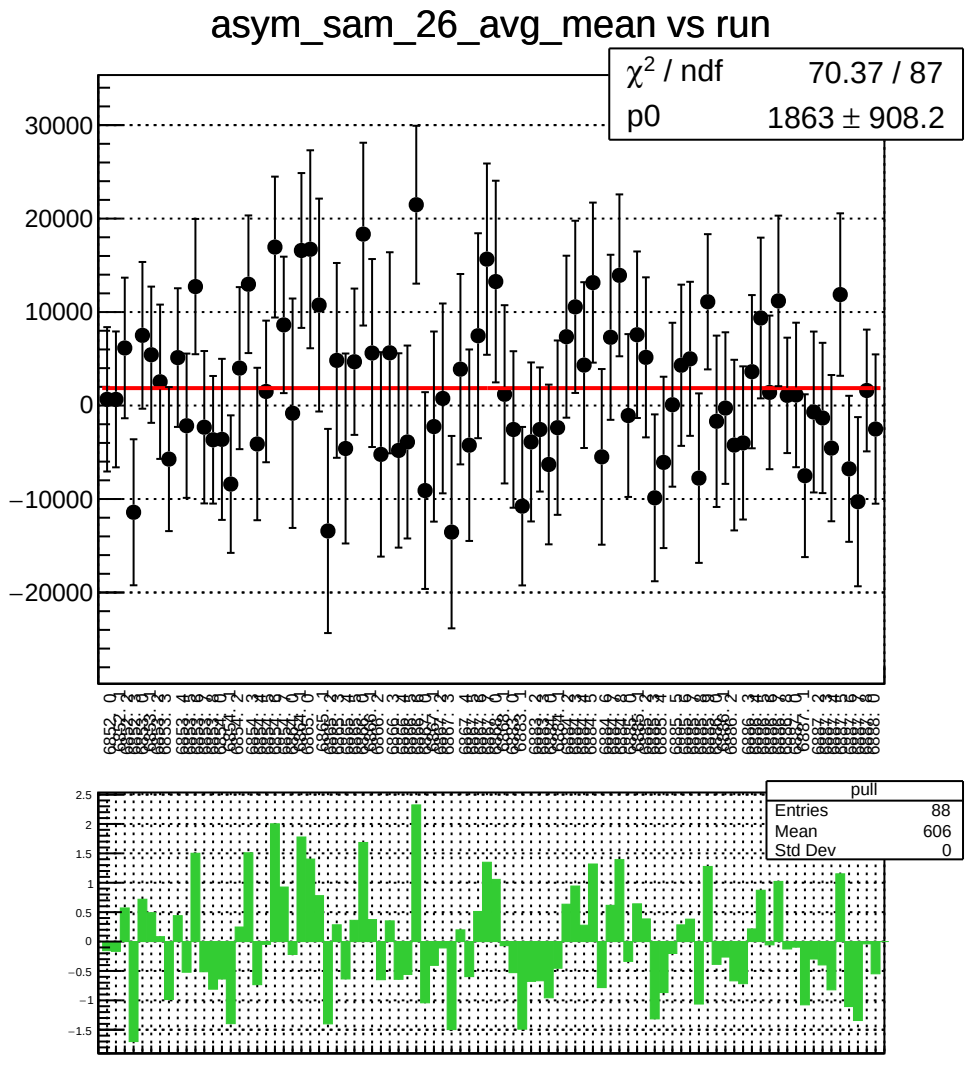

pull1D
Entries 88
Mean −0.00672
Std Dev 0.8949
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

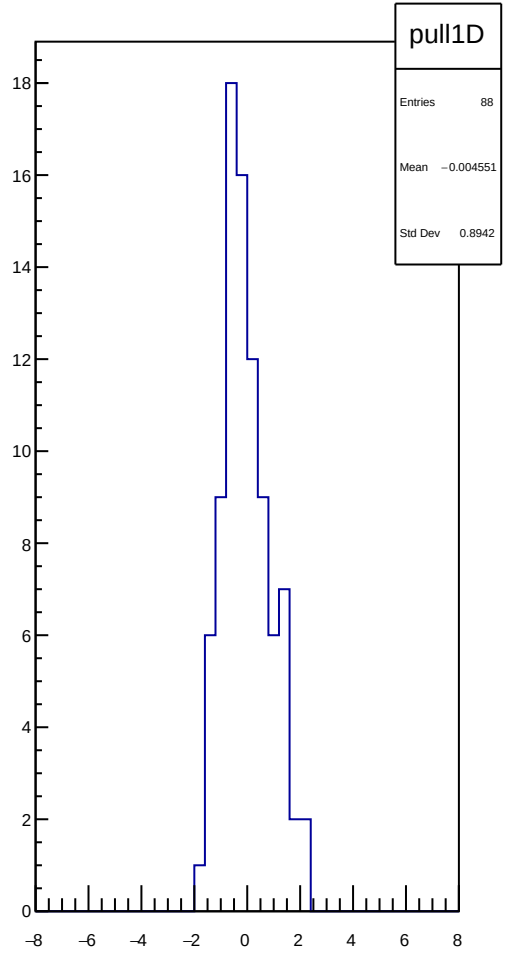

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 3.507e+04 / 87
p0 125.6 ± 0.09759
300
250
200
150
100

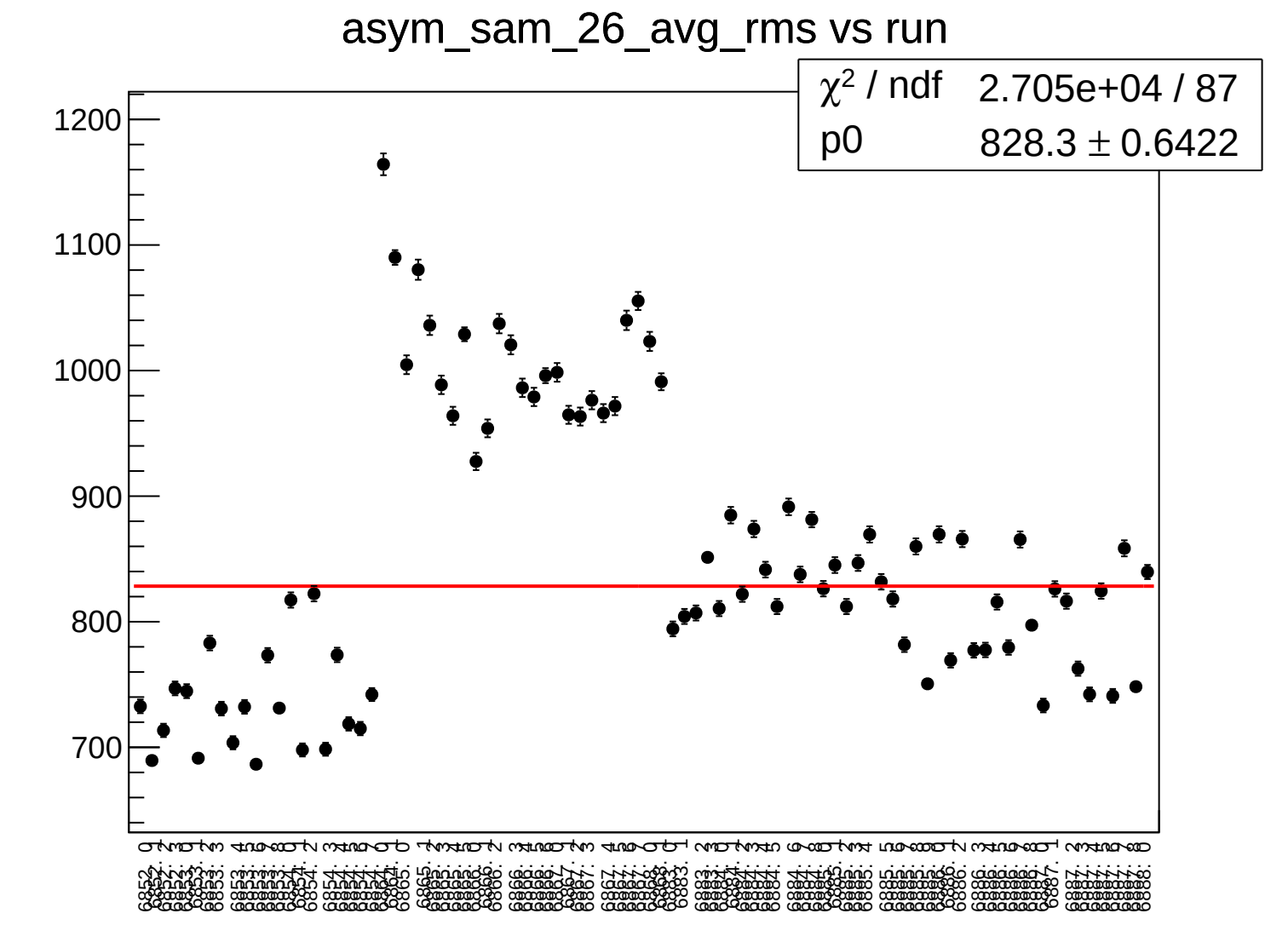

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 71.42 / 87
p0 −1923 ± 861.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 372.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

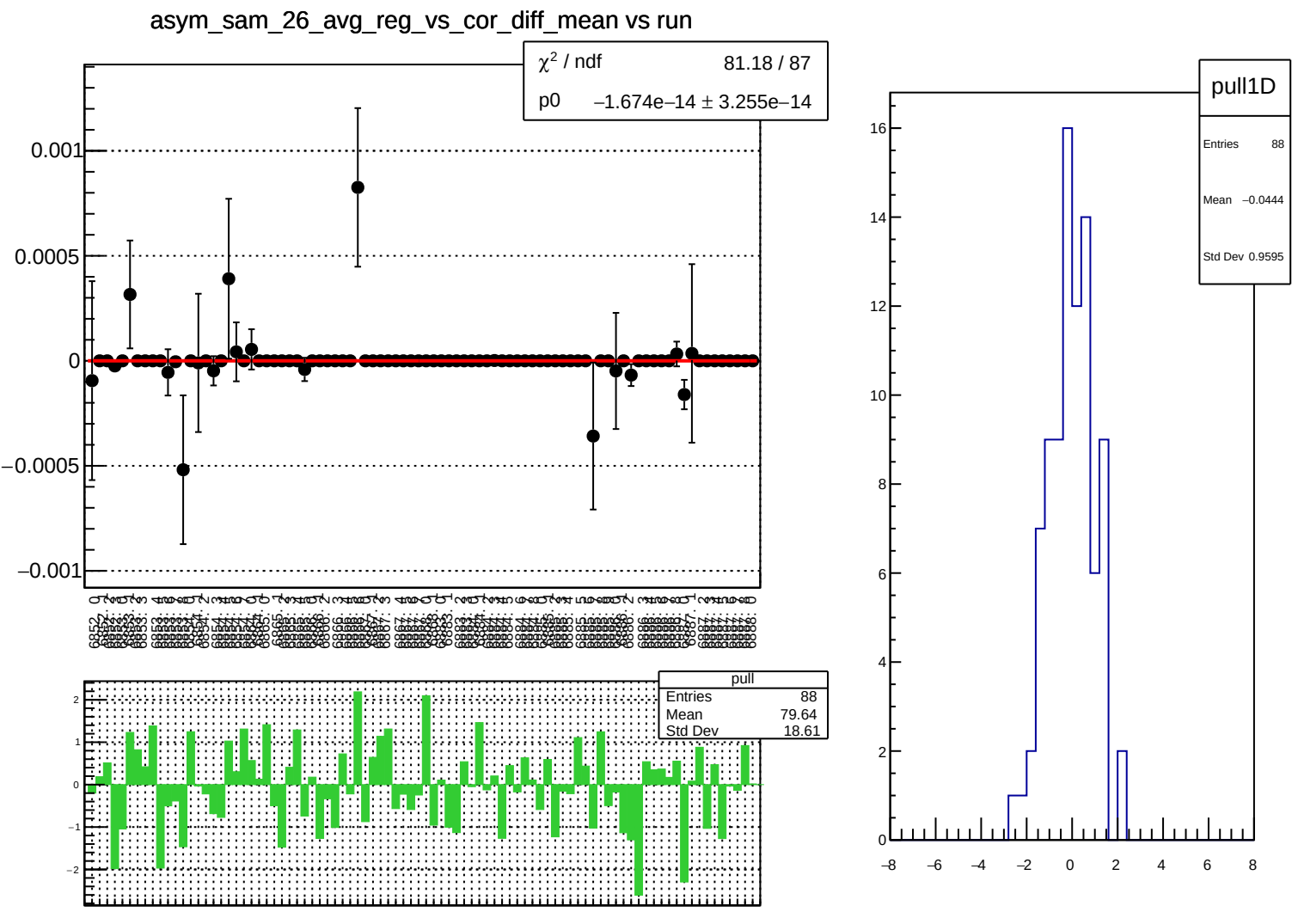

pull1D
Entries 88
Mean 0.007456
Std Dev 0.9009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

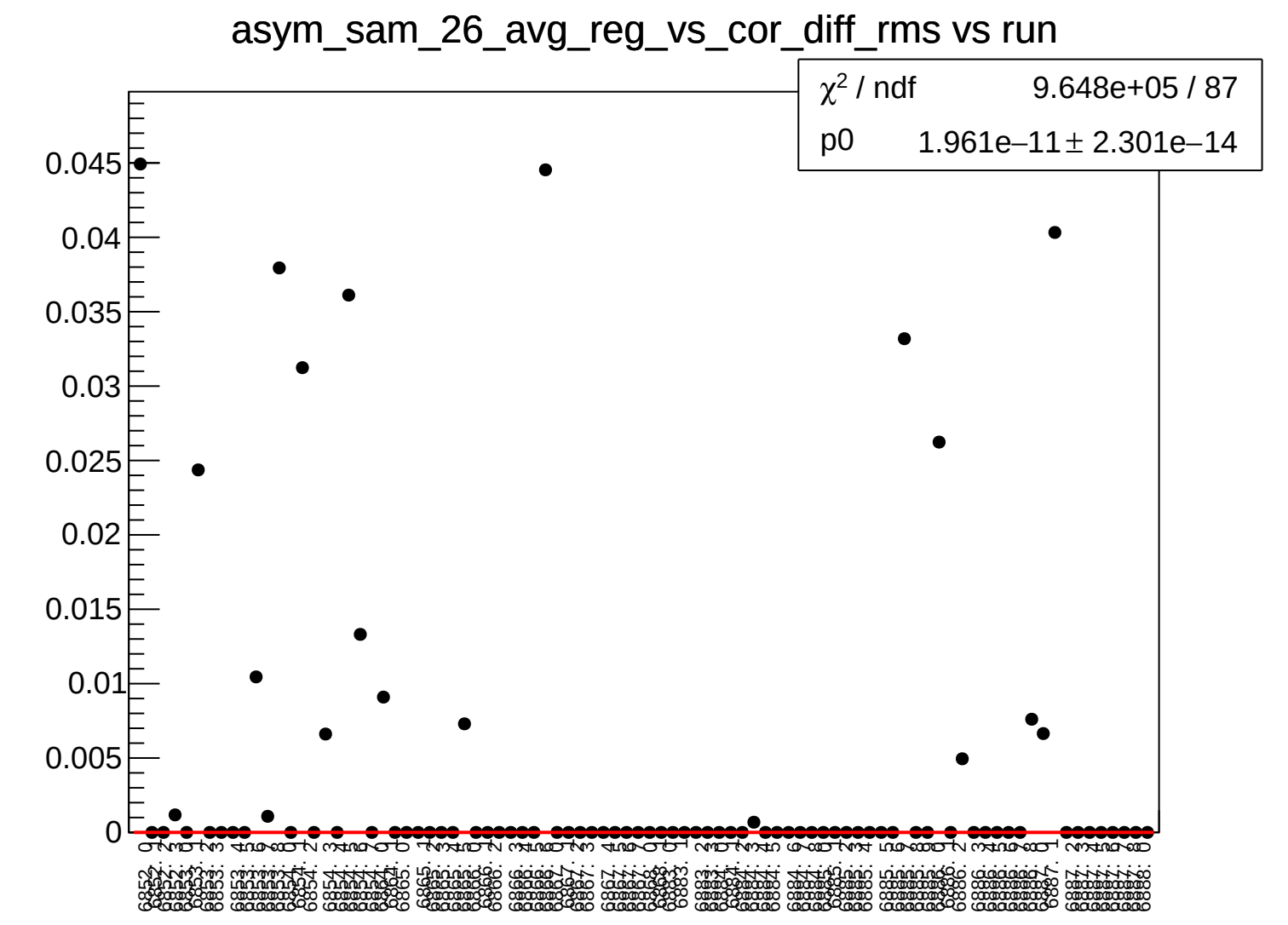

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.273e+04 / 87
p0 787 ± 0.6093
1000
950
900
850
800
750
700
650

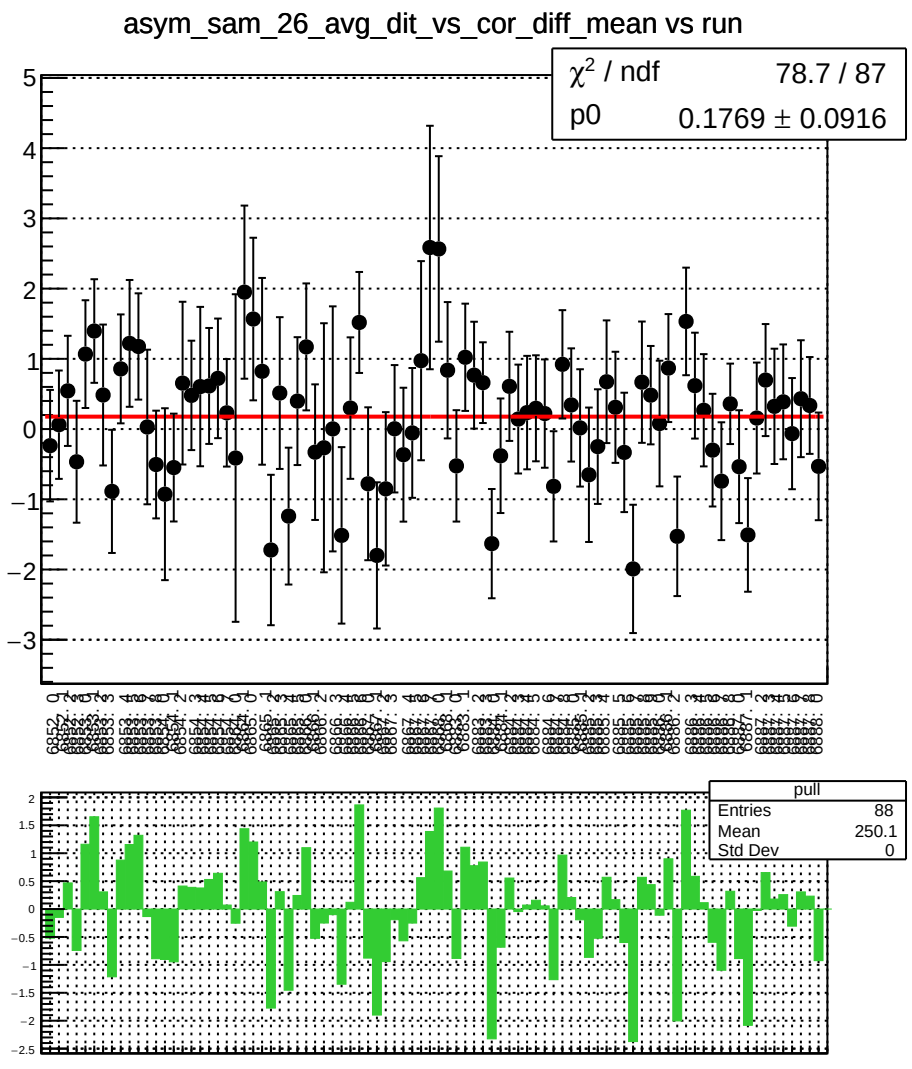

asym_sam_26_avg_mean vs run
χ² / ndf 70.37 / 87
p0 1863 ± 908.2
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 606
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

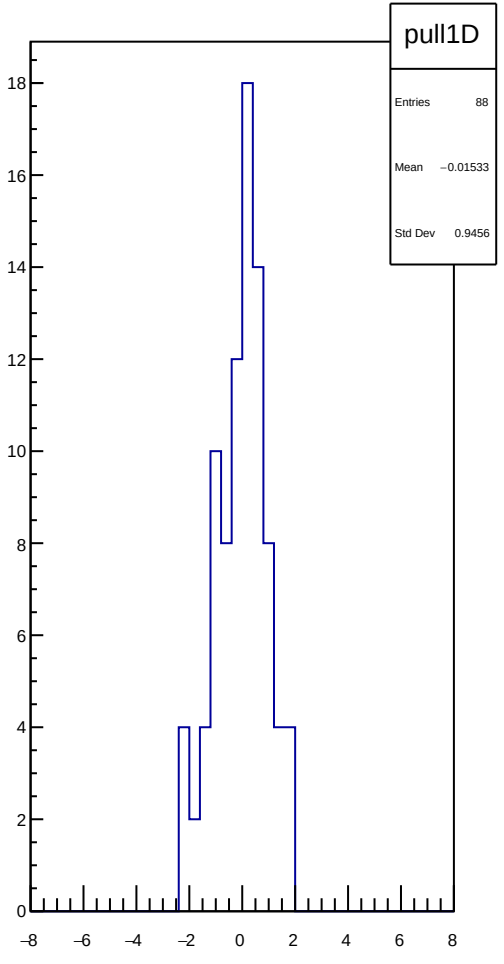

pull1D
Entries 88
Mean −0.004551
Std Dev 0.8942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

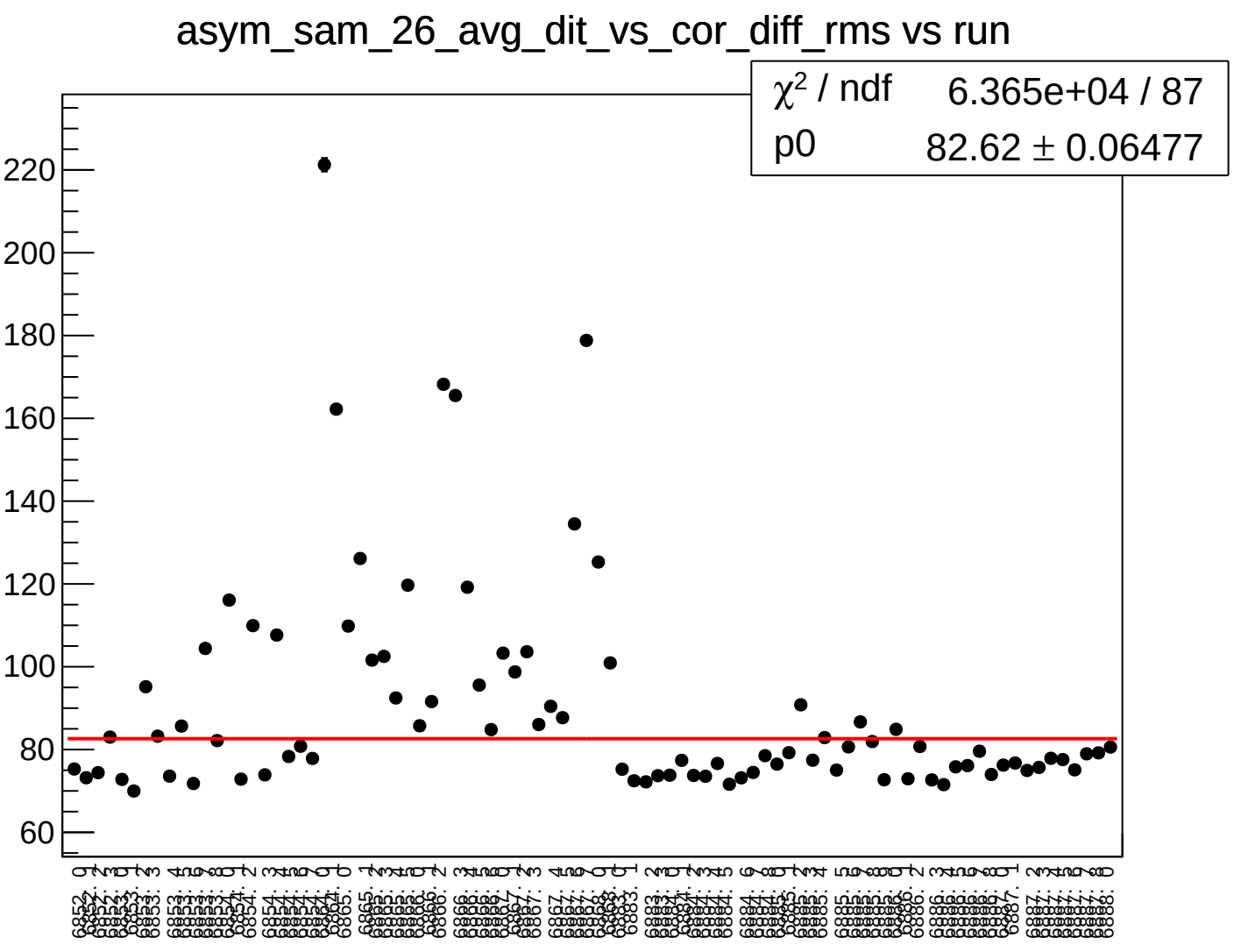

asym_sam_26_avg_rms vs run
χ² / ndf 2.705e+04 / 87
p0 828.3 ± 0.6422
1200
1100
1000
900
800
700

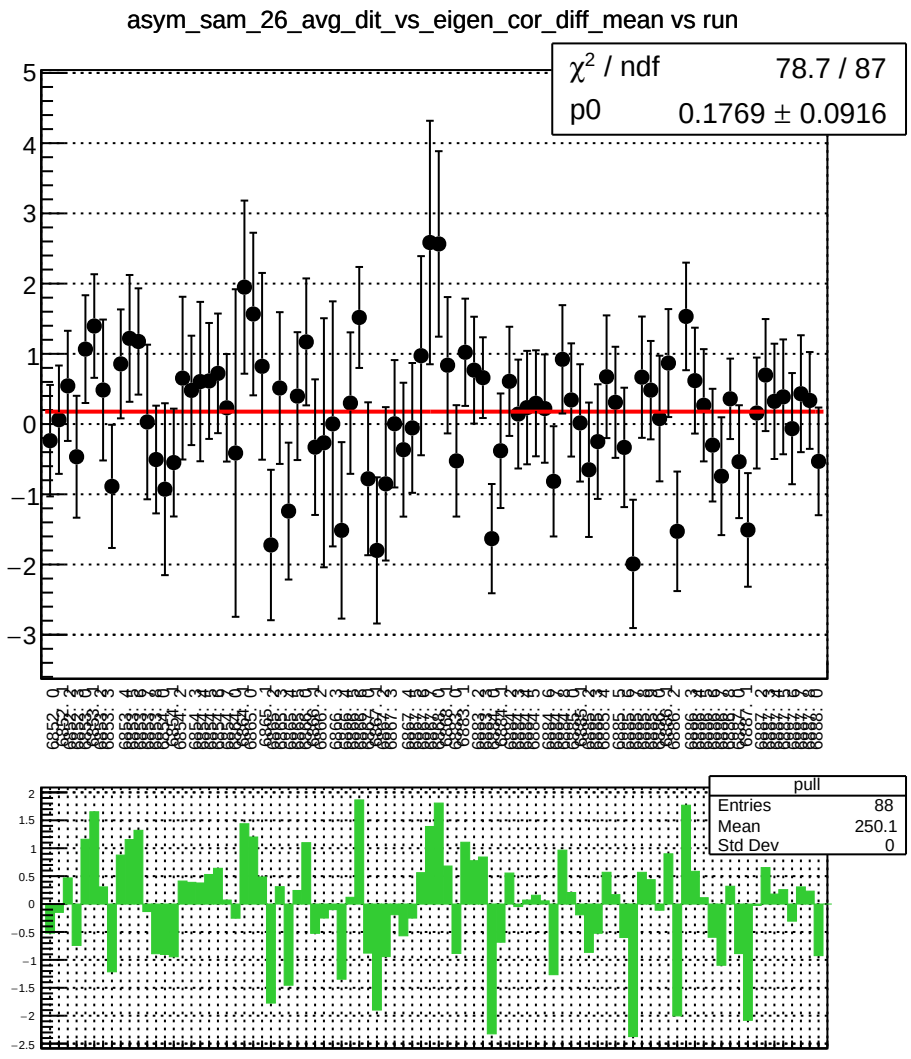

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.18 / 87
p0 −1.674e−14 ± 3.255e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 88
Mean 79.64
Std Dev 18.61
pull1D
Entries 88
Mean −0.0444
Std Dev 0.9595

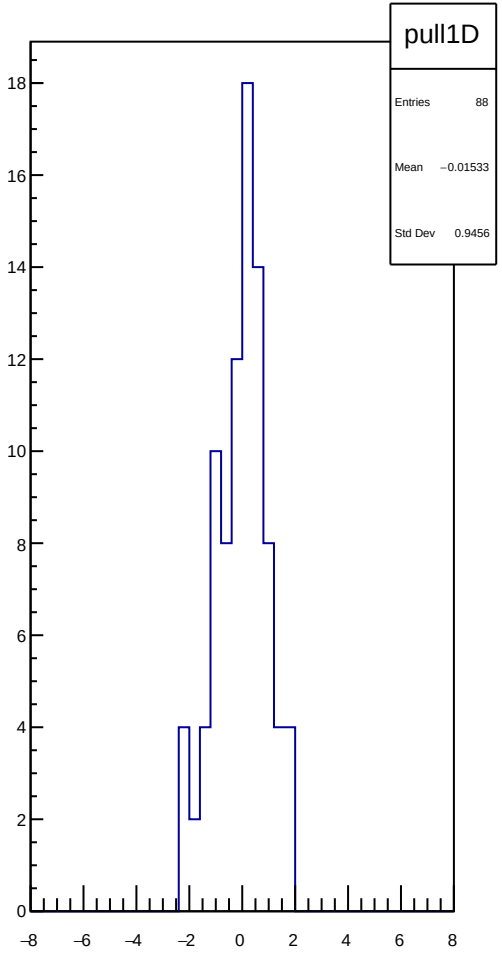

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.648e+05 / 87
p0 1.961e−11 ± 2.301e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

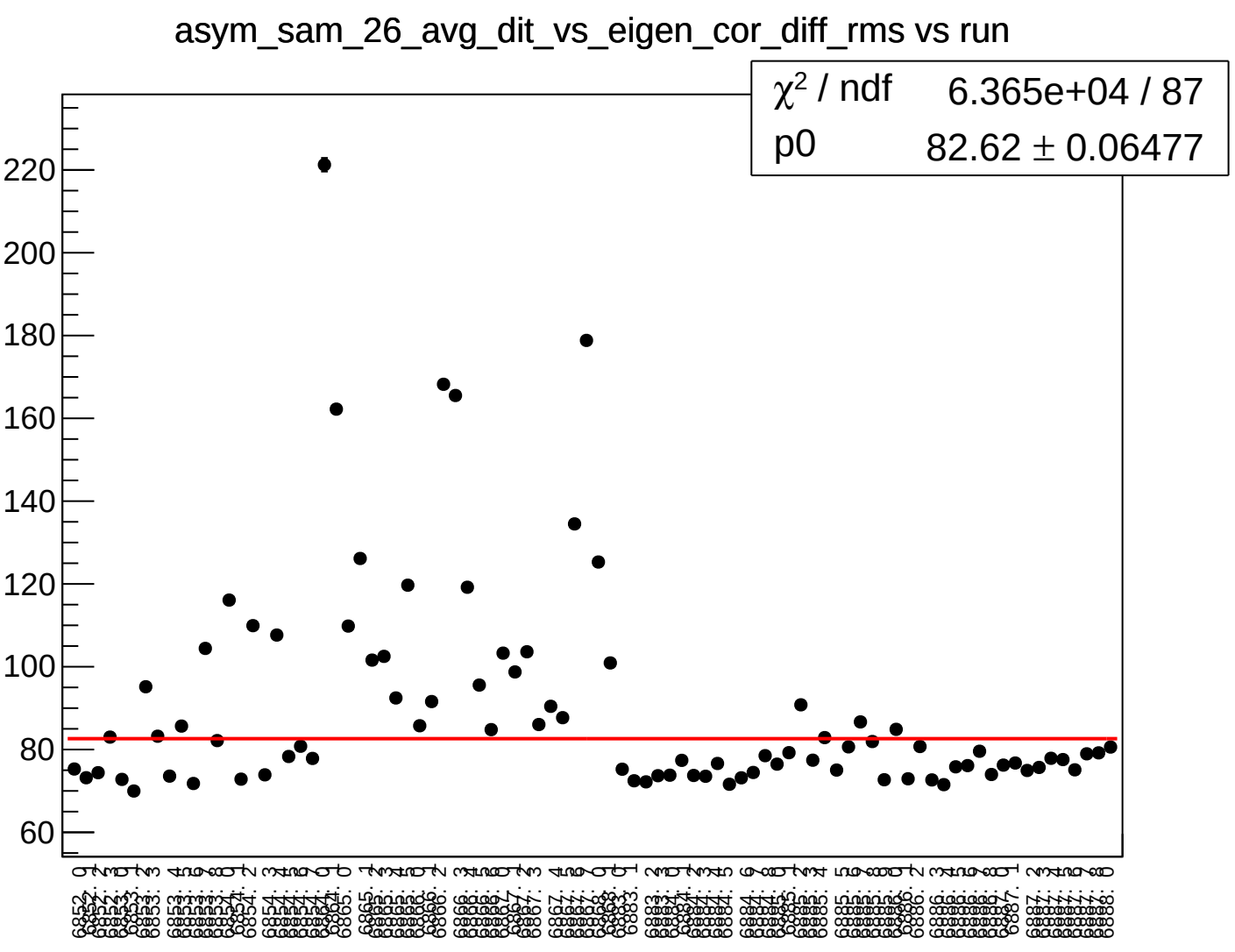

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.7 / 87
p0 0.1769 ± 0.0916
pull
Entries 88
Mean 250.1
Std Dev 0

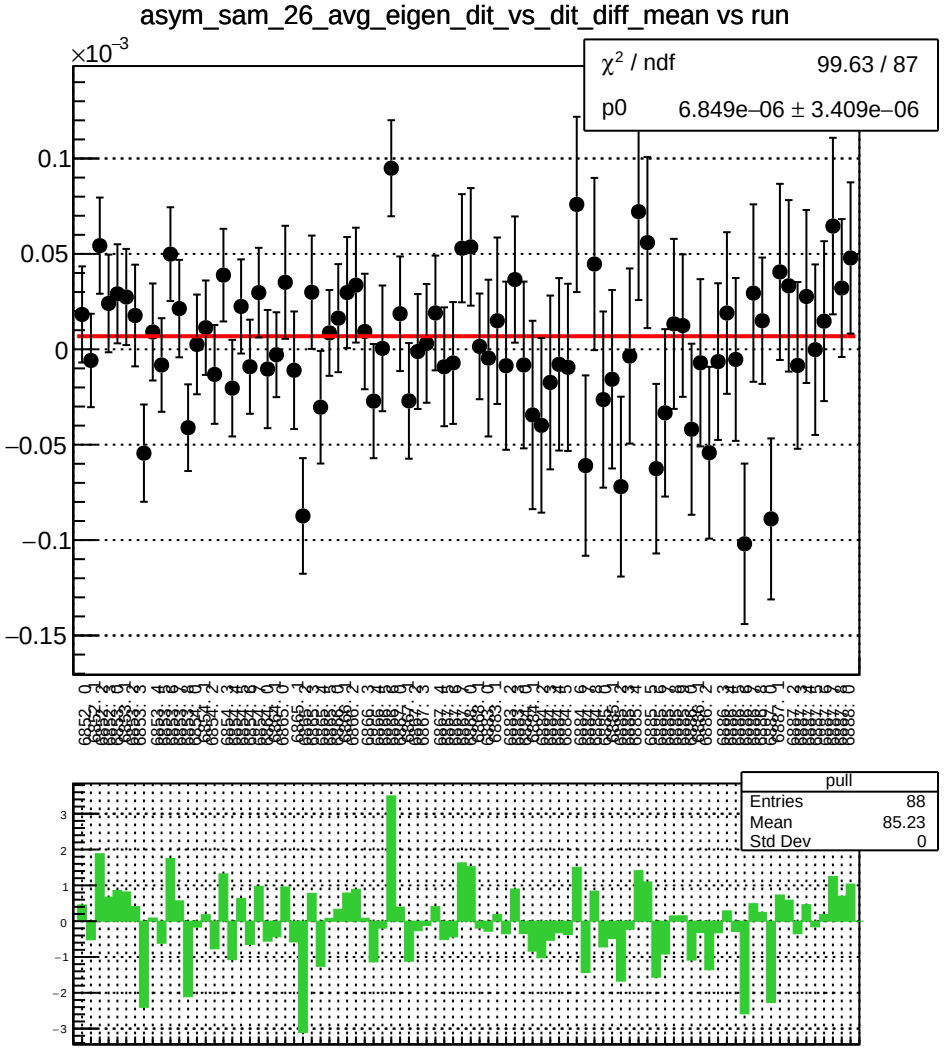

pull1D
Entries 88
Mean −0.01533
Std Dev 0.9456

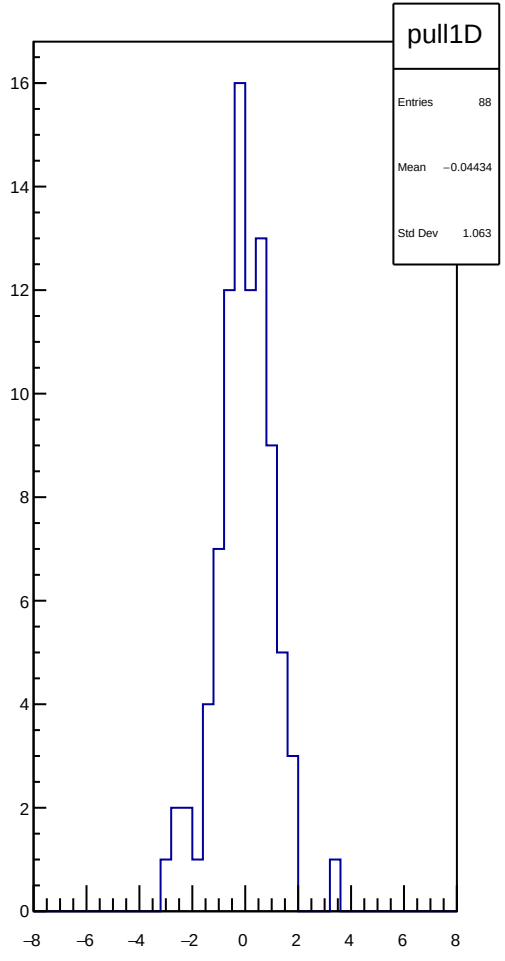

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.365e+04 / 87
p0 82.62 ± 0.06477
220
200
180
160
140
120
100
80
60

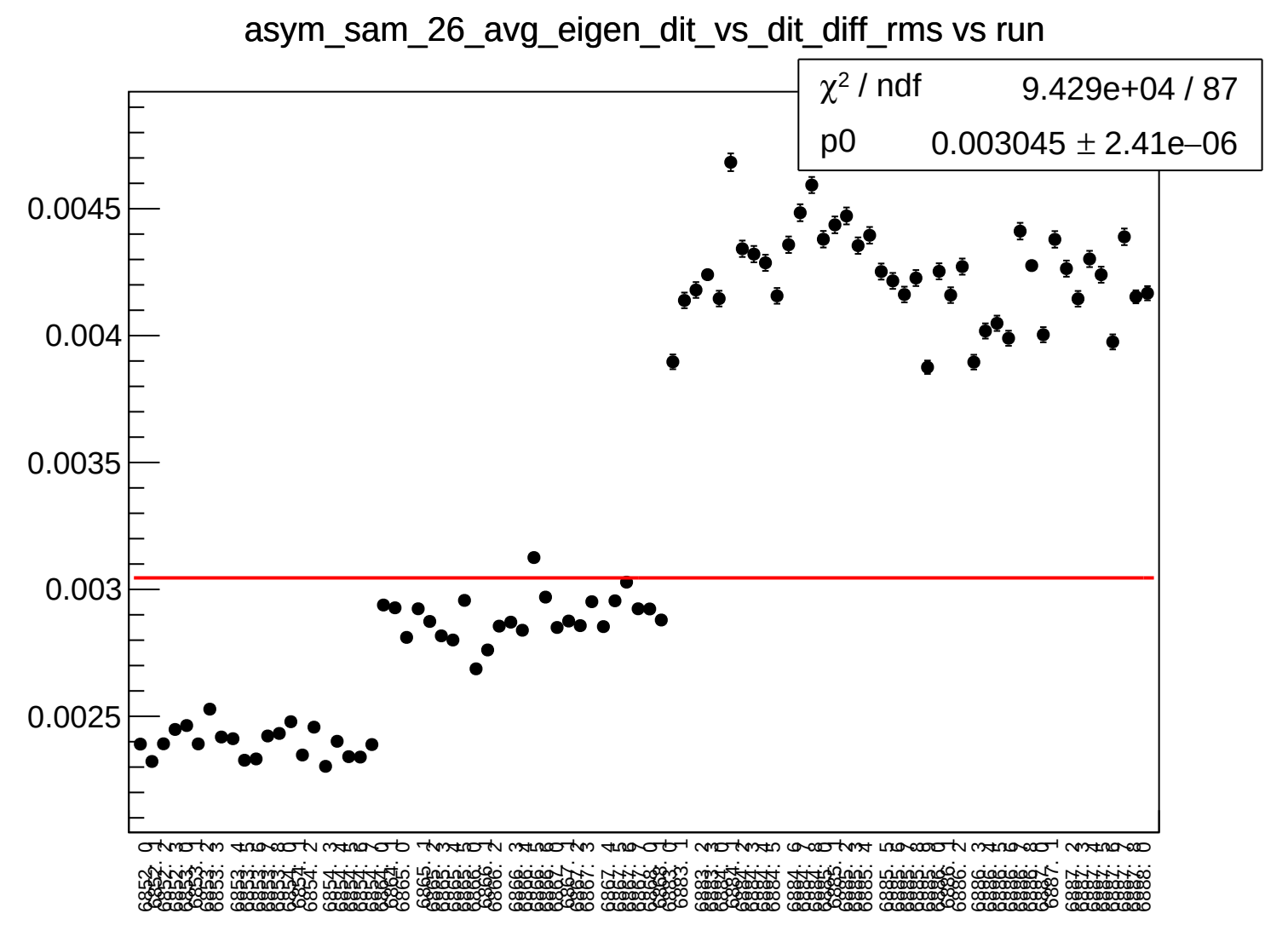

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.7 / 87
p0 0.1769 ± 0.0916
pull
Entries 88
Mean 250.1
Std Dev 0

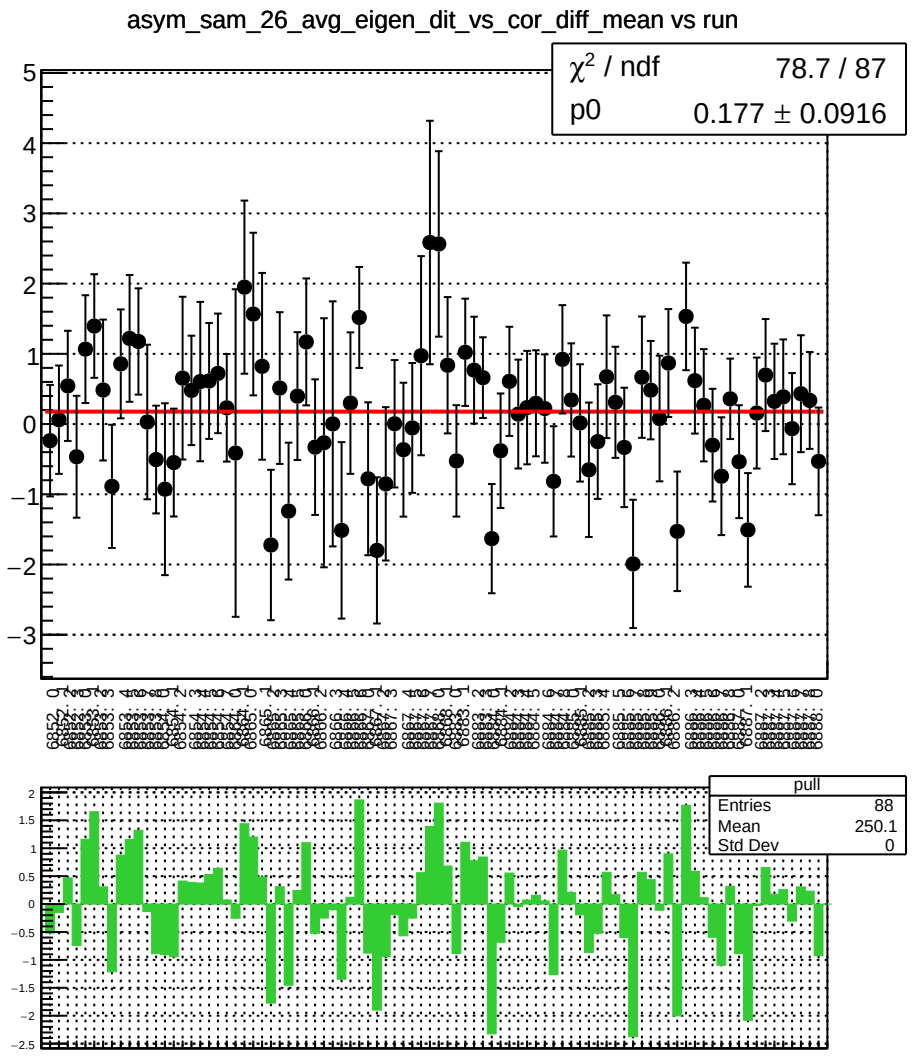

pull1D
Entries 88
Mean −0.01533
Std Dev 0.9456

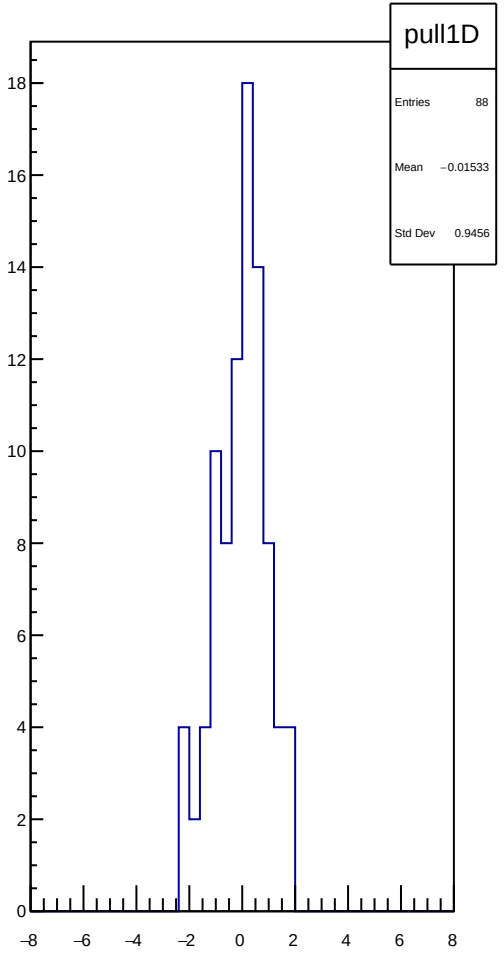

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.365e+04 / 87
p0 82.62 ± 0.06477
220
200
180
160
140
120
100
80
60

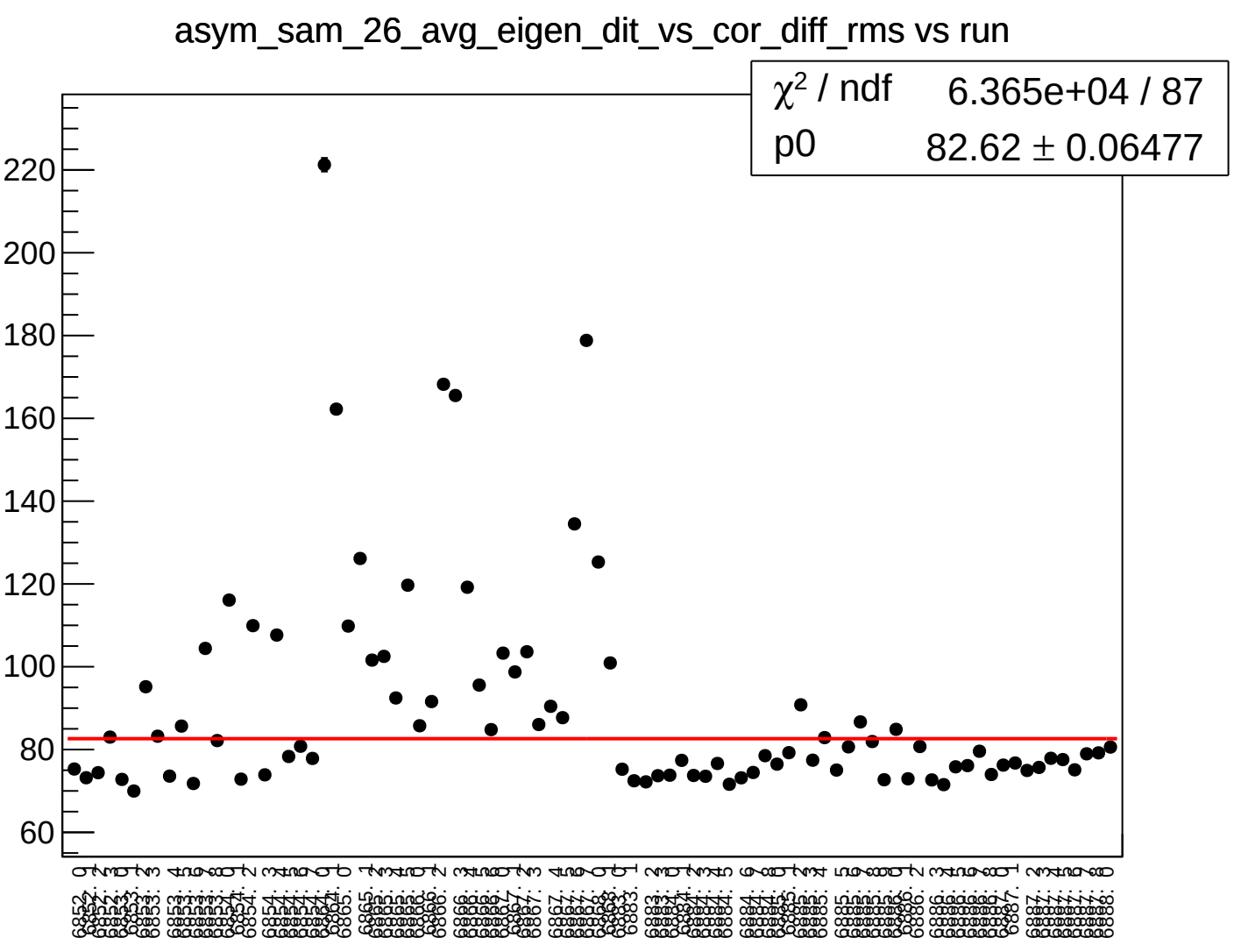

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.63 / 87
p0 6.849e−06 ± 3.409e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 85.23
Std Dev 0
3
2
1
0
−1
−2
−3

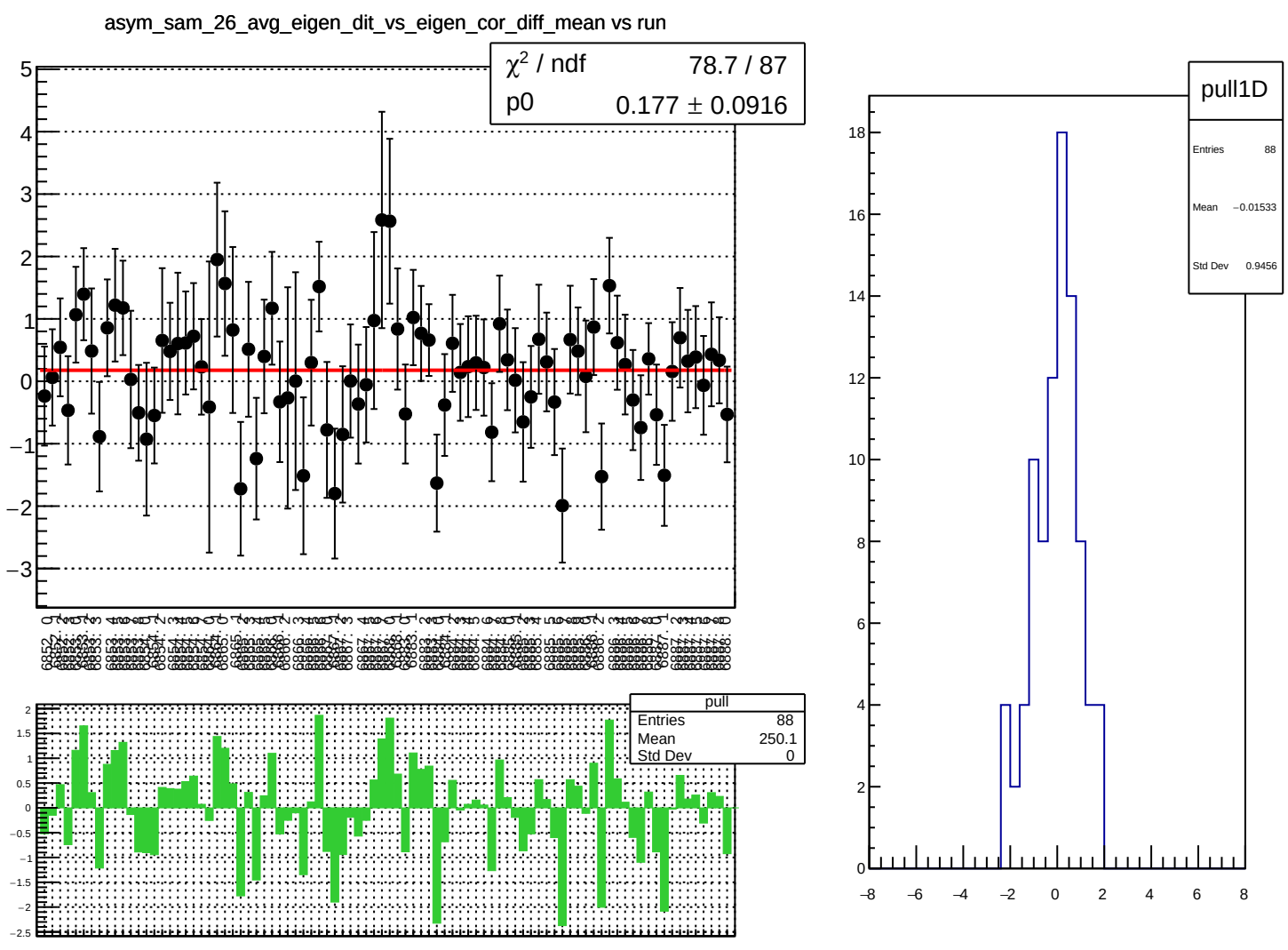

pull1D
Entries 88
Mean −0.04434
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

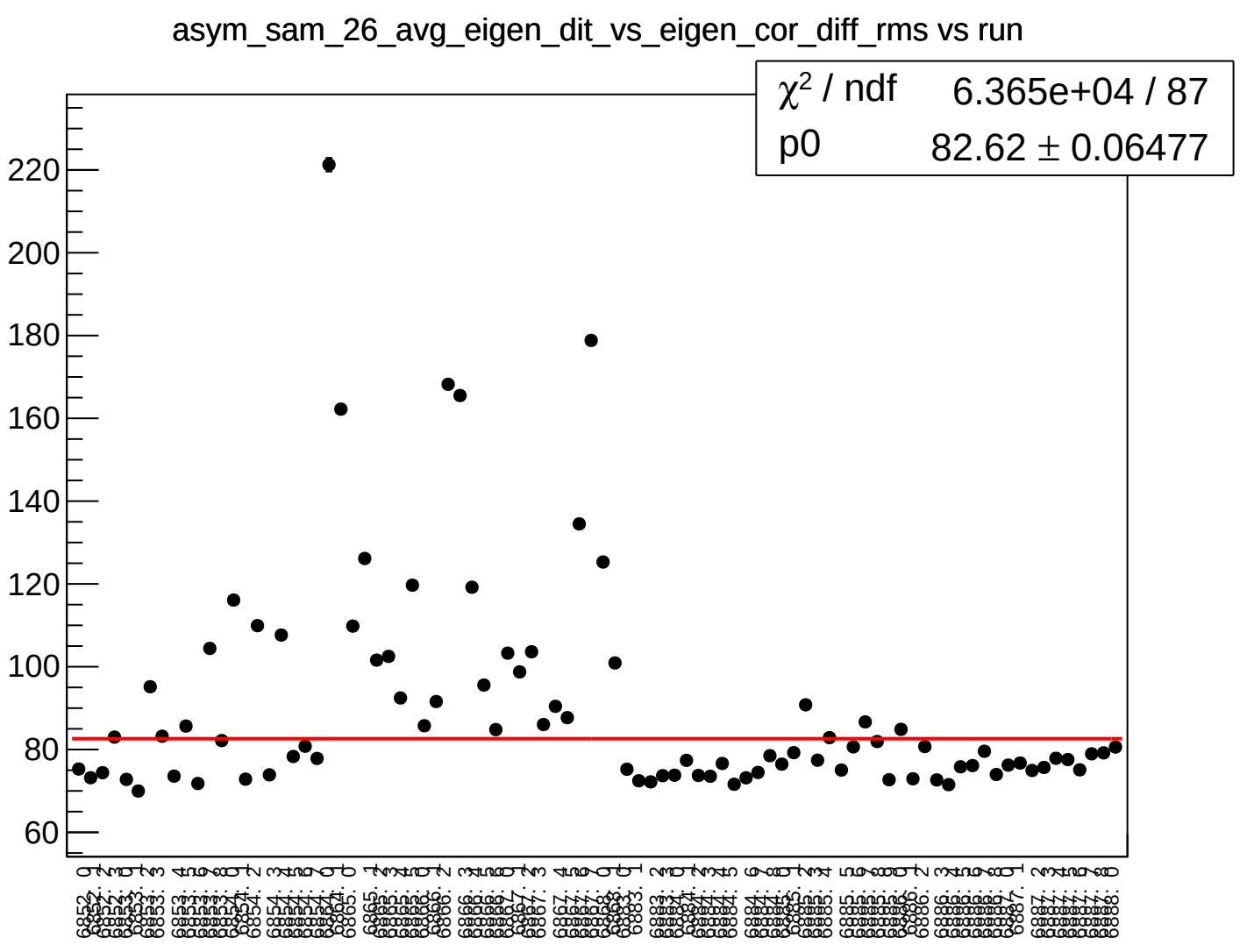

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.429e+04 / 87
p0 0.003045 ± 2.41e−06
0.0045
0.004
0.0035
0.003
0.0025

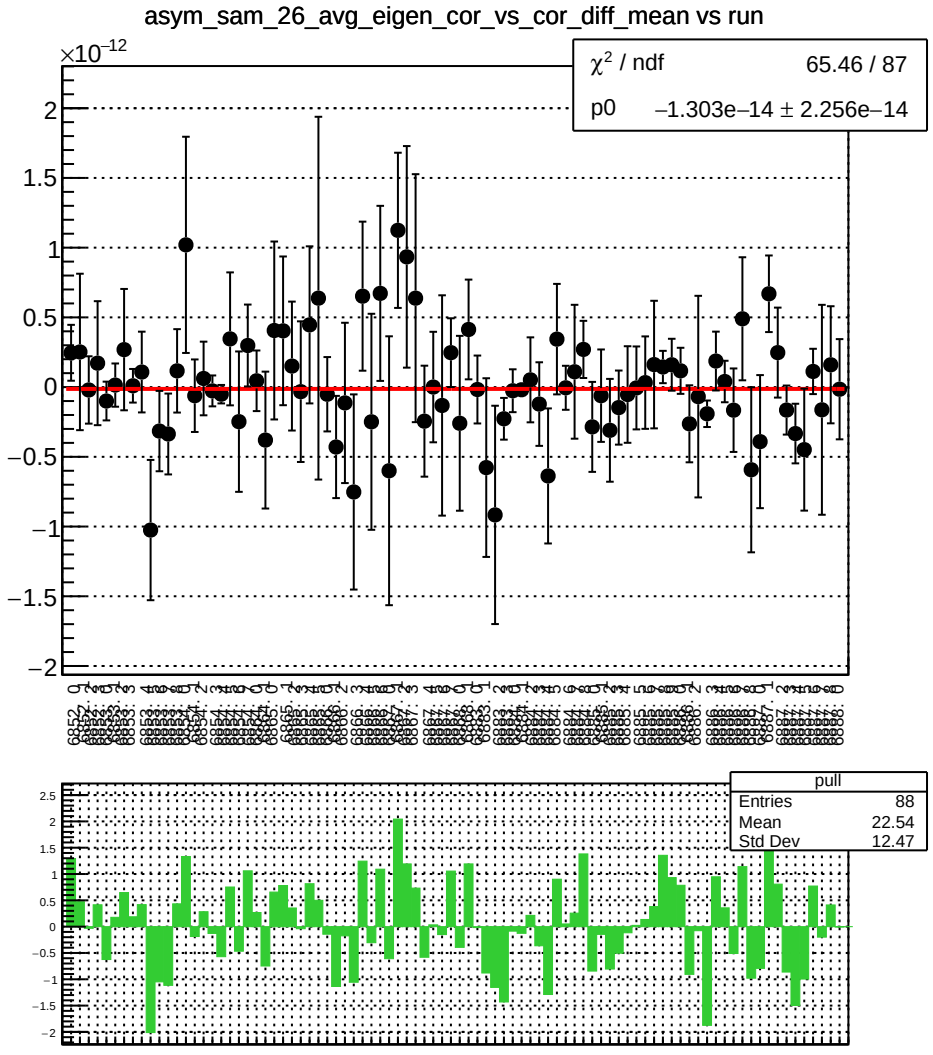

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.7 / 87
p0 0.177 ± 0.0916
pull
Entries 88
Mean 250.1
Std Dev 0

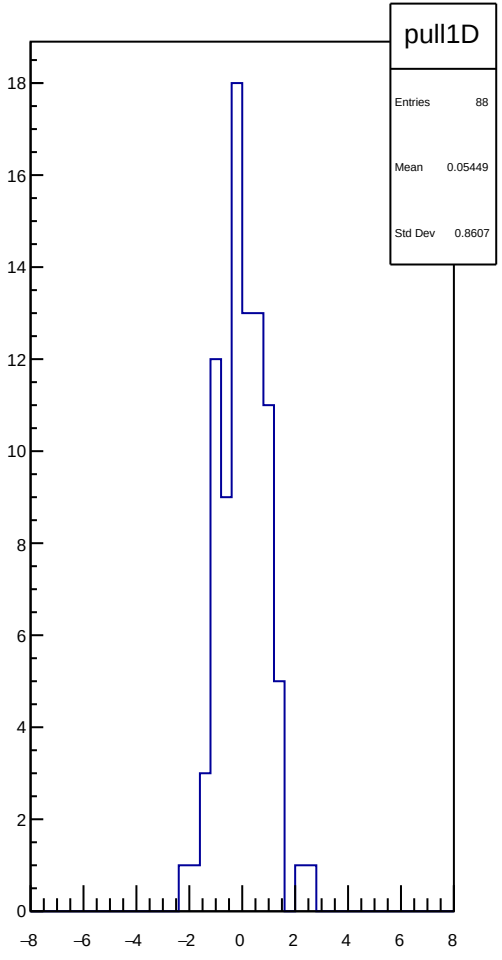

pull1D
Entries 88
Mean −0.01533
Std Dev 0.9456

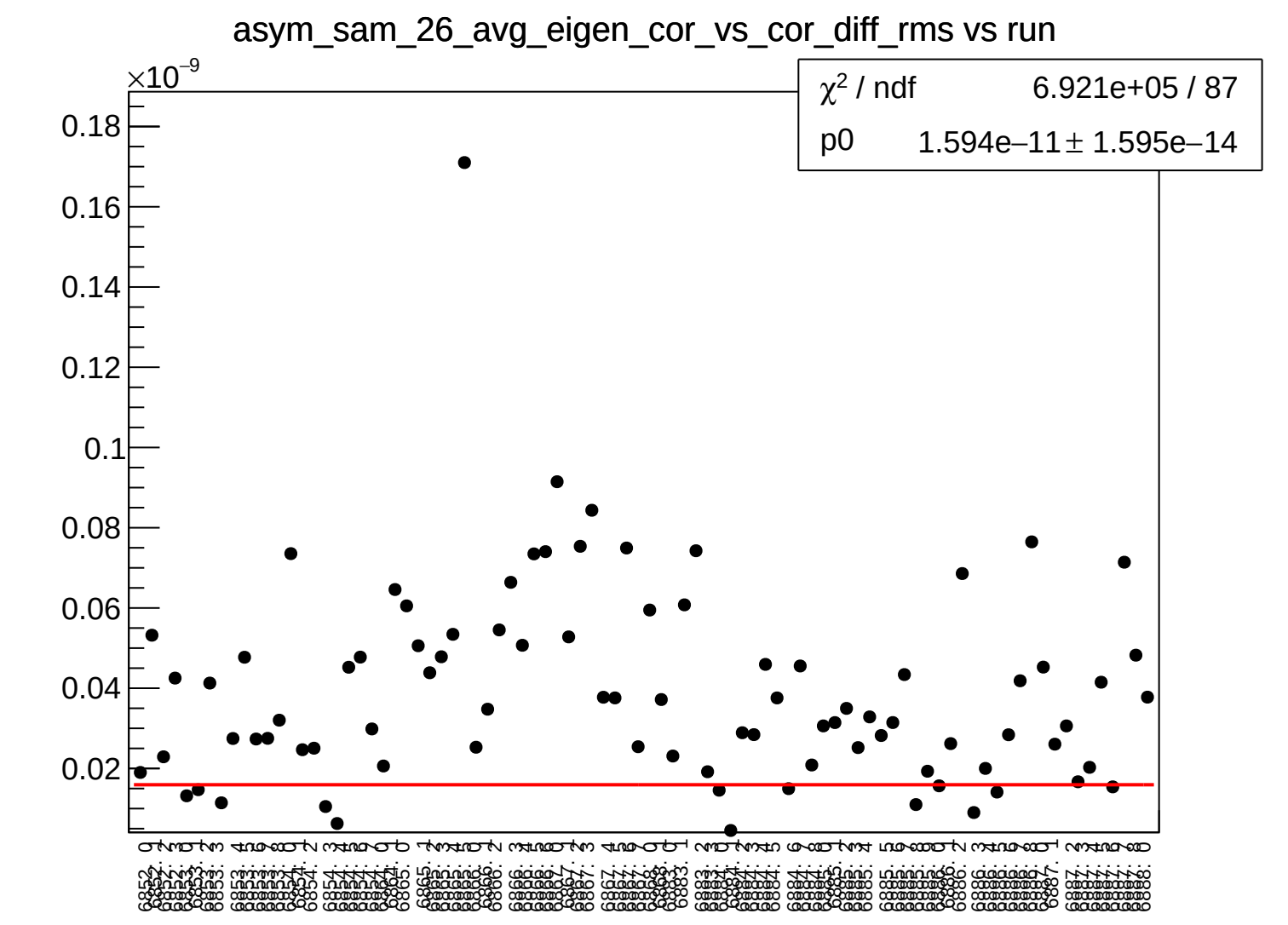

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.365e+04 / 87
p0 82.62 ± 0.06477
220
200
180
160
140
120
100
80
60

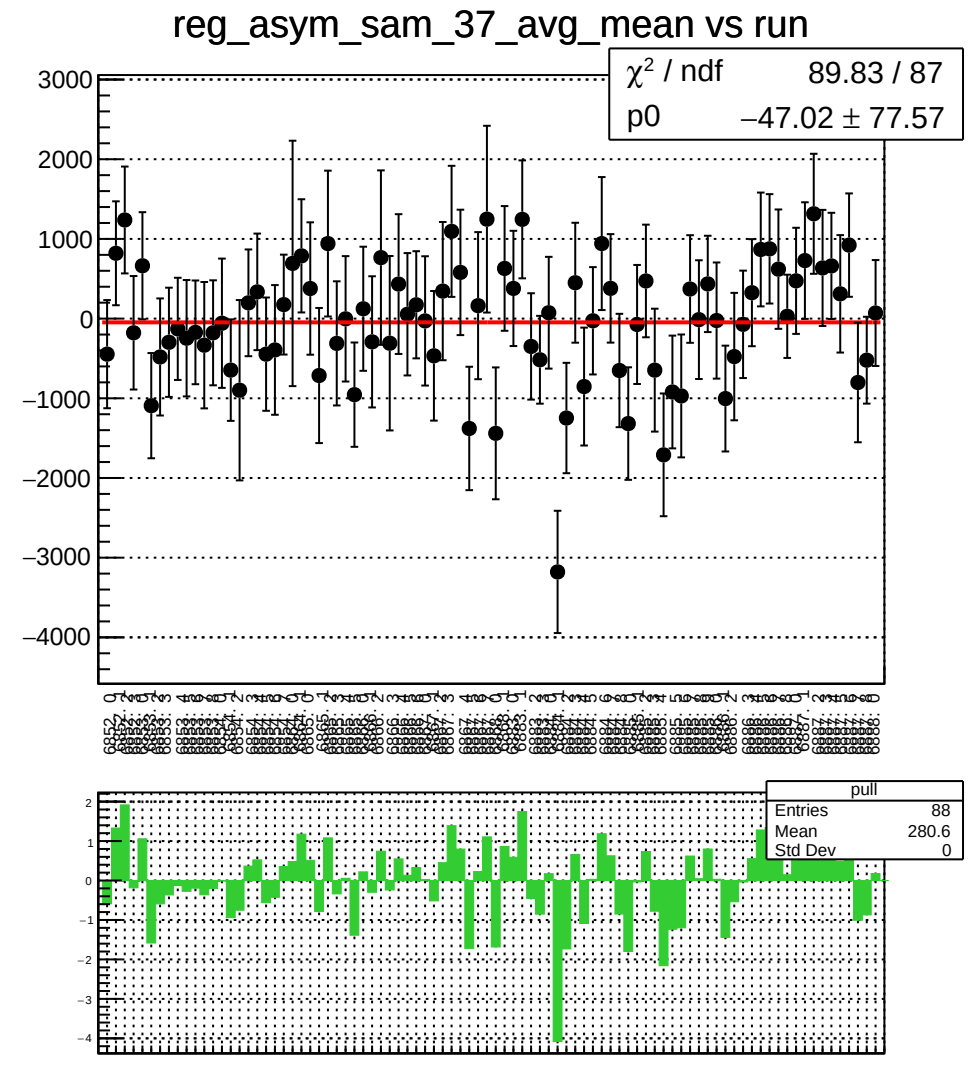

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.7 / 87
p0 0.177 ± 0.0916
pull
Entries 88
Mean 250.1
Std Dev 0
pull1D
Entries 88
Mean −0.01533
Std Dev 0.9456

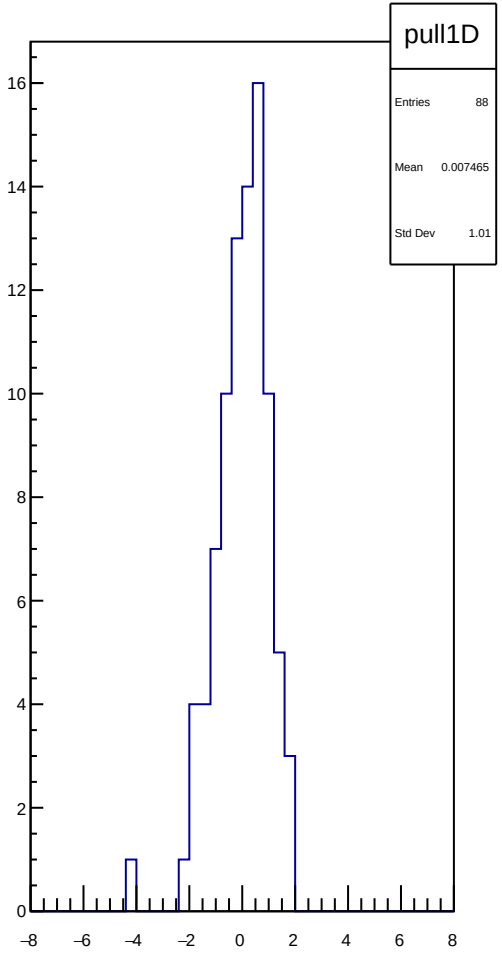

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.365e+04 / 87
p0 82.62 ± 0.06477
220
200
180
160
140
120
100
80
60

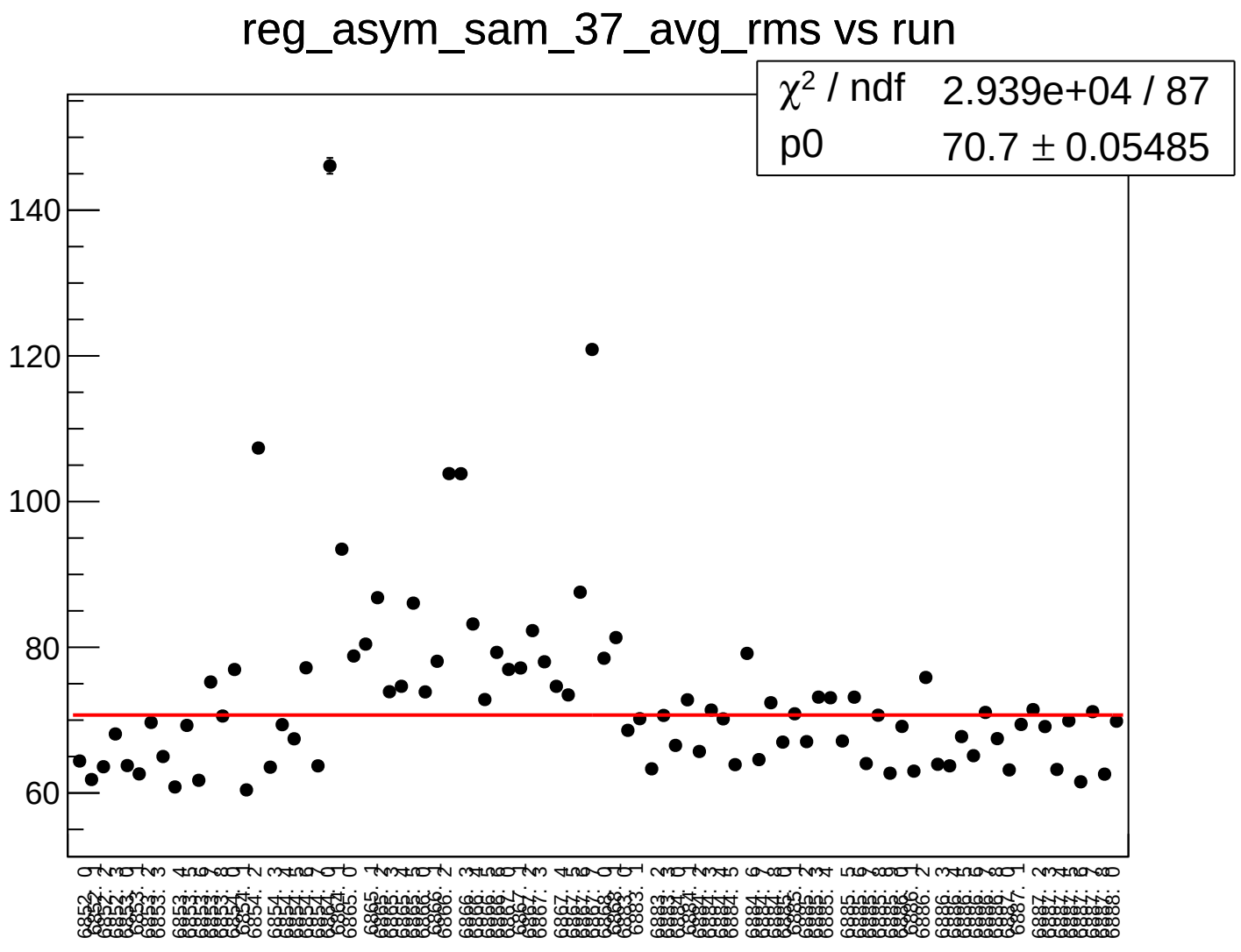

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.46 / 87
p0 −1.303e−14 ± 2.256e−14
pull
Entries 88
Mean 22.54
Std Dev 12.47

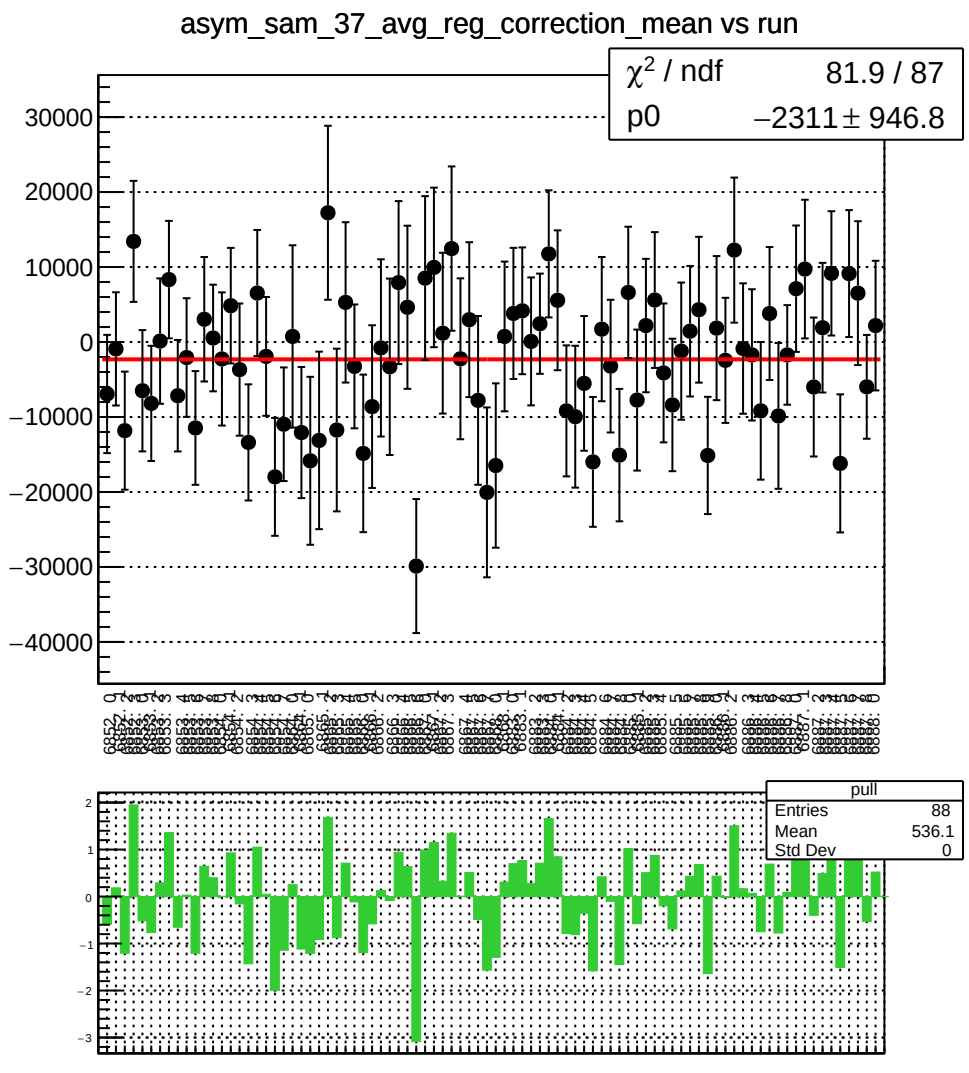

pull1D
Entries 88
Mean 0.05449
Std Dev 0.8607

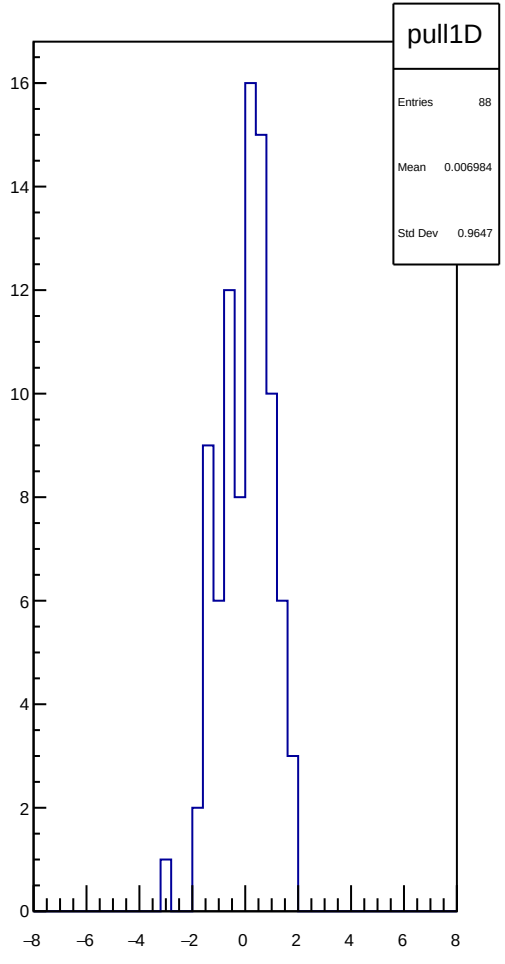

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.921e+05 / 87
p0 1.594e−11 ± 1.595e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

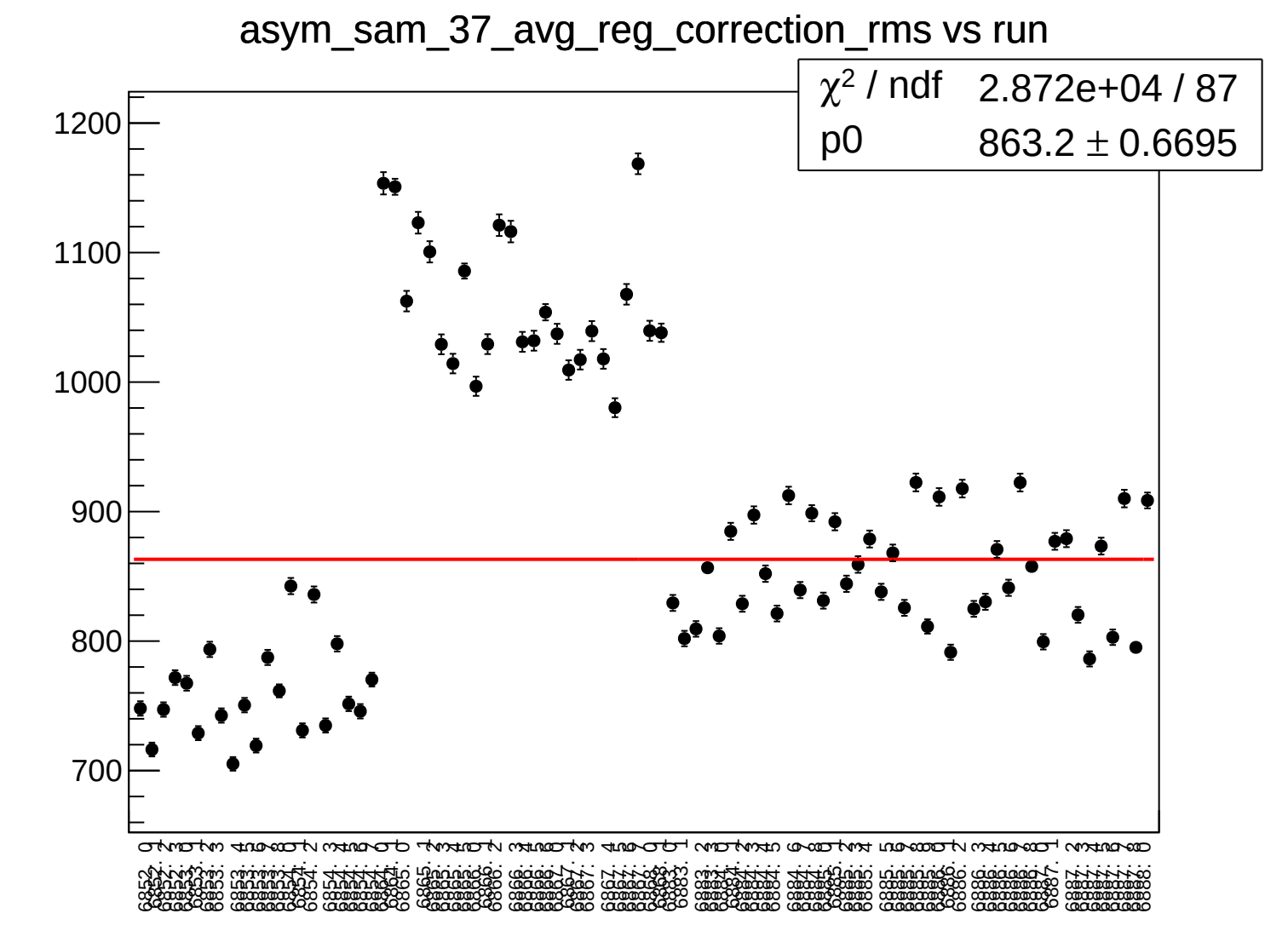

reg_asym_sam_37_avg_mean vs run
χ² / ndf 89.83 / 87
p0 −47.02 ± 77.57
pull
Entries 88
Mean 280.6
Std Dev 0

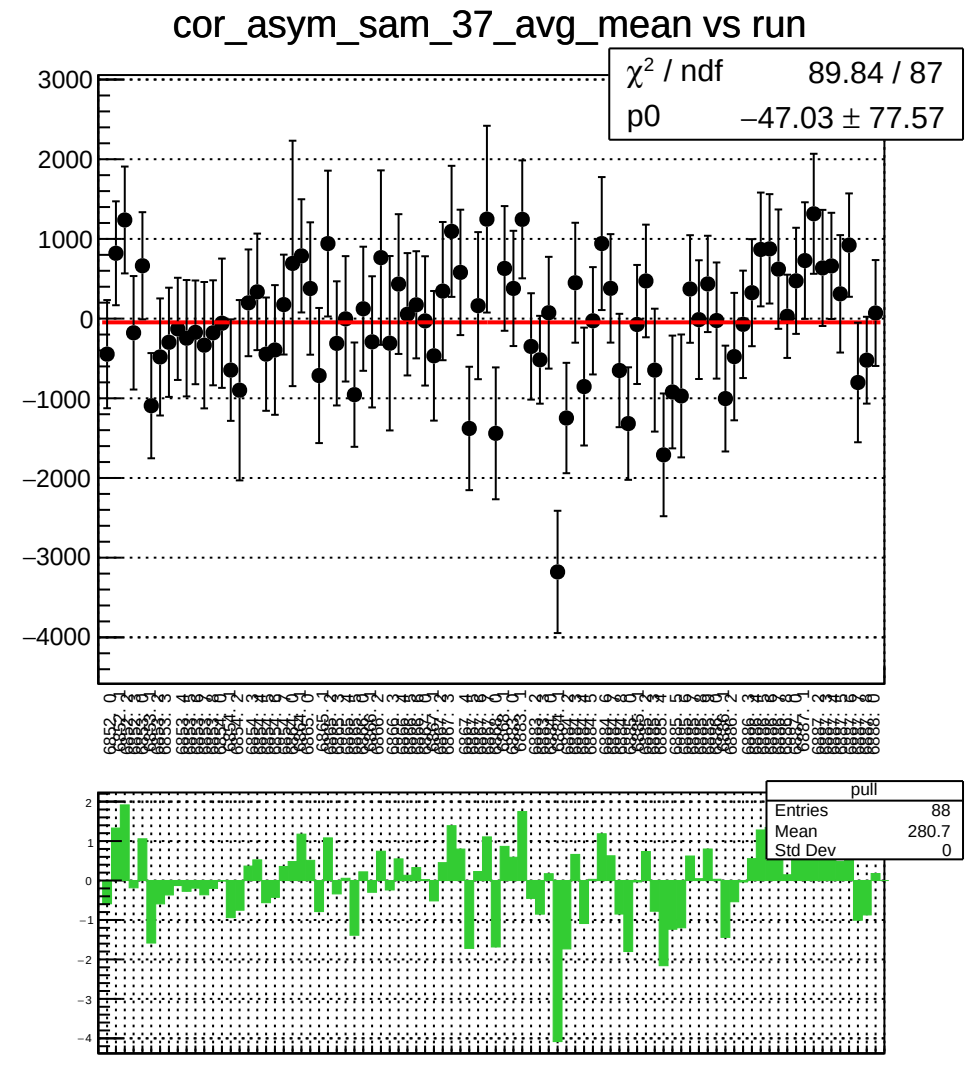

pull1D
Entries 88
Mean 0.007465
Std Dev 1.01

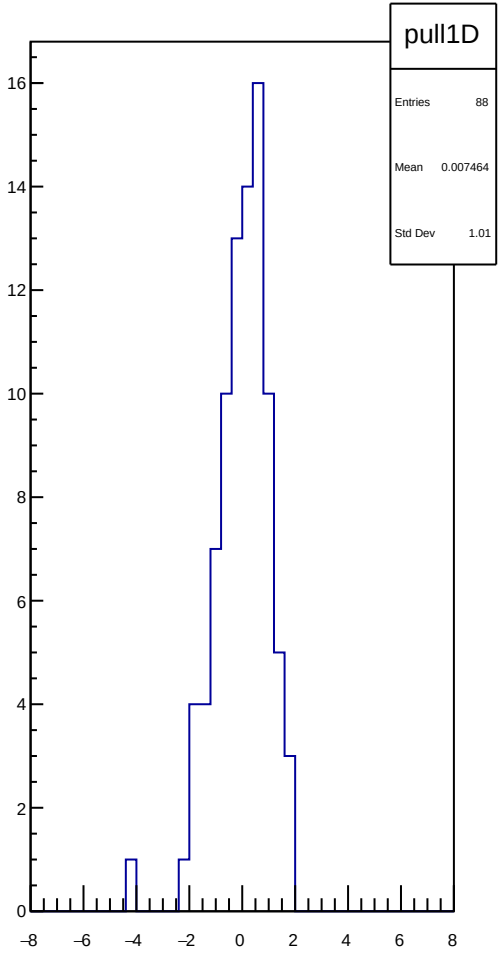

reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.939e+04 / 87
p0 70.7 ± 0.05485
140
120
100
80
60

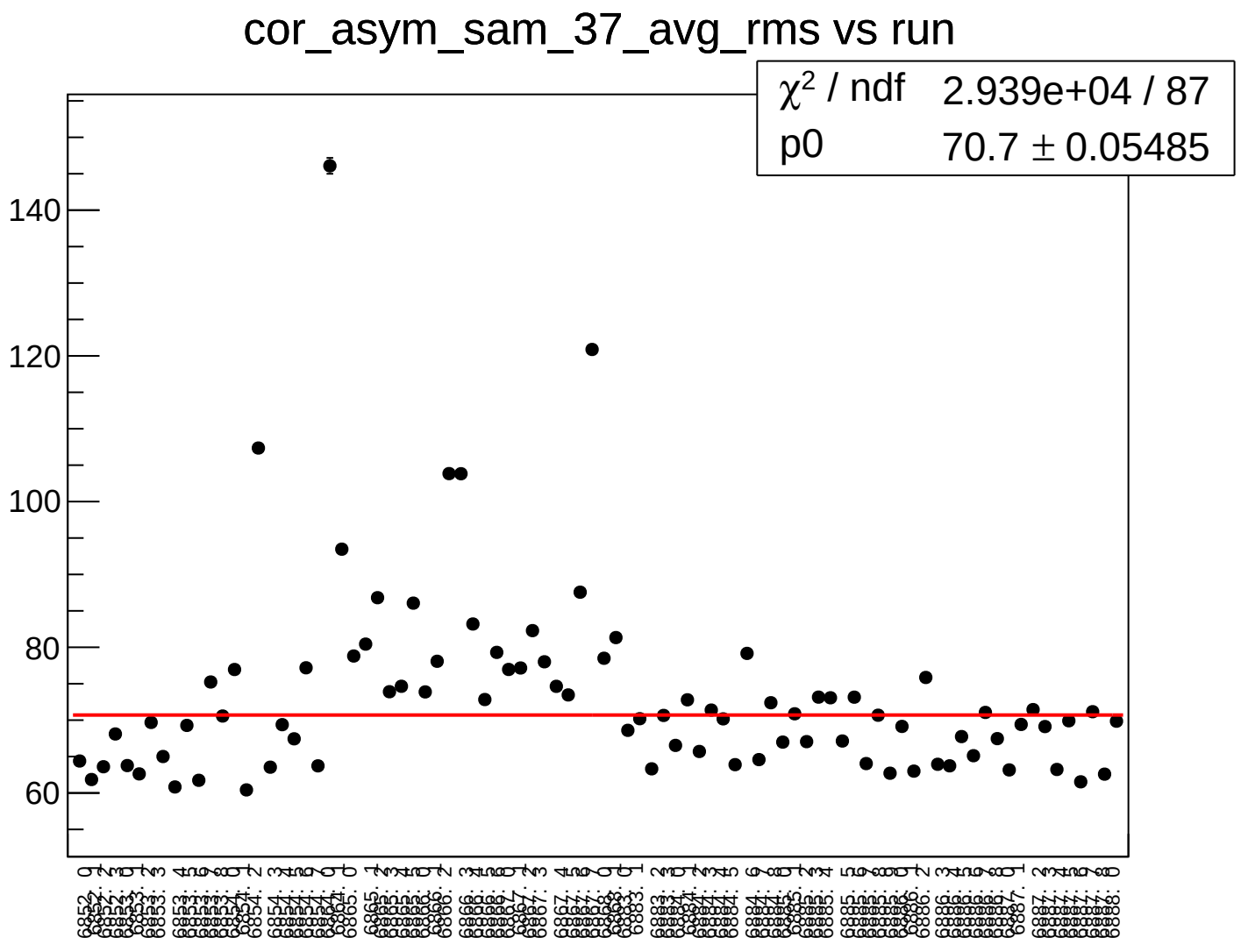

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 81.9 / 87
p0 −2311 ± 946.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 536.1
Std Dev 0
2
1
0
−1
−2
−3

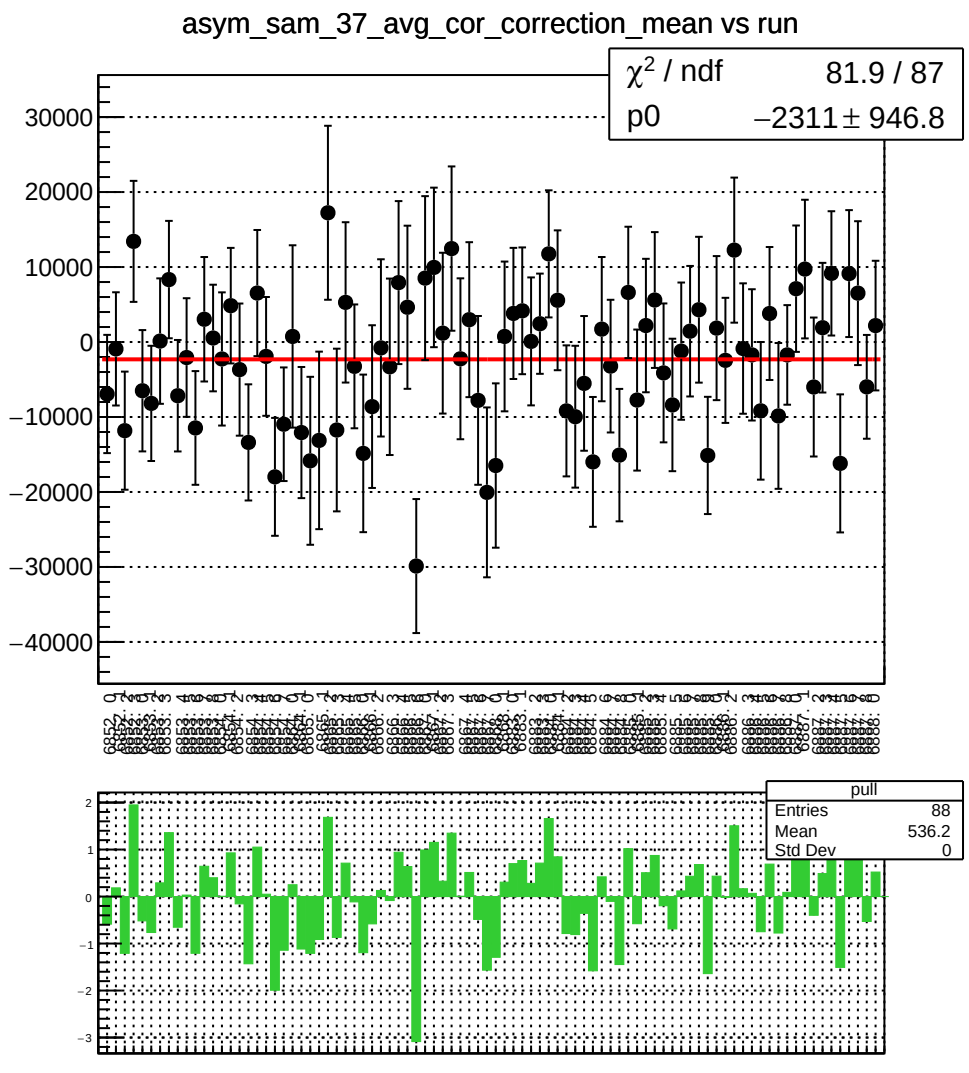

pull1D
Entries 88
Mean 0.006984
Std Dev 0.9647
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

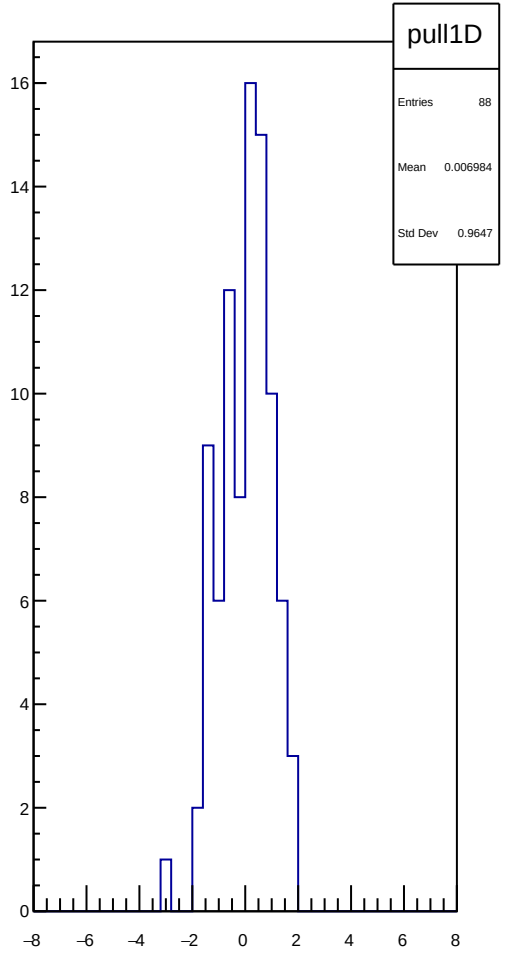

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 2.872e+04 / 87
p0 863.2 ± 0.6695
1200
1100
1000
900
800
700

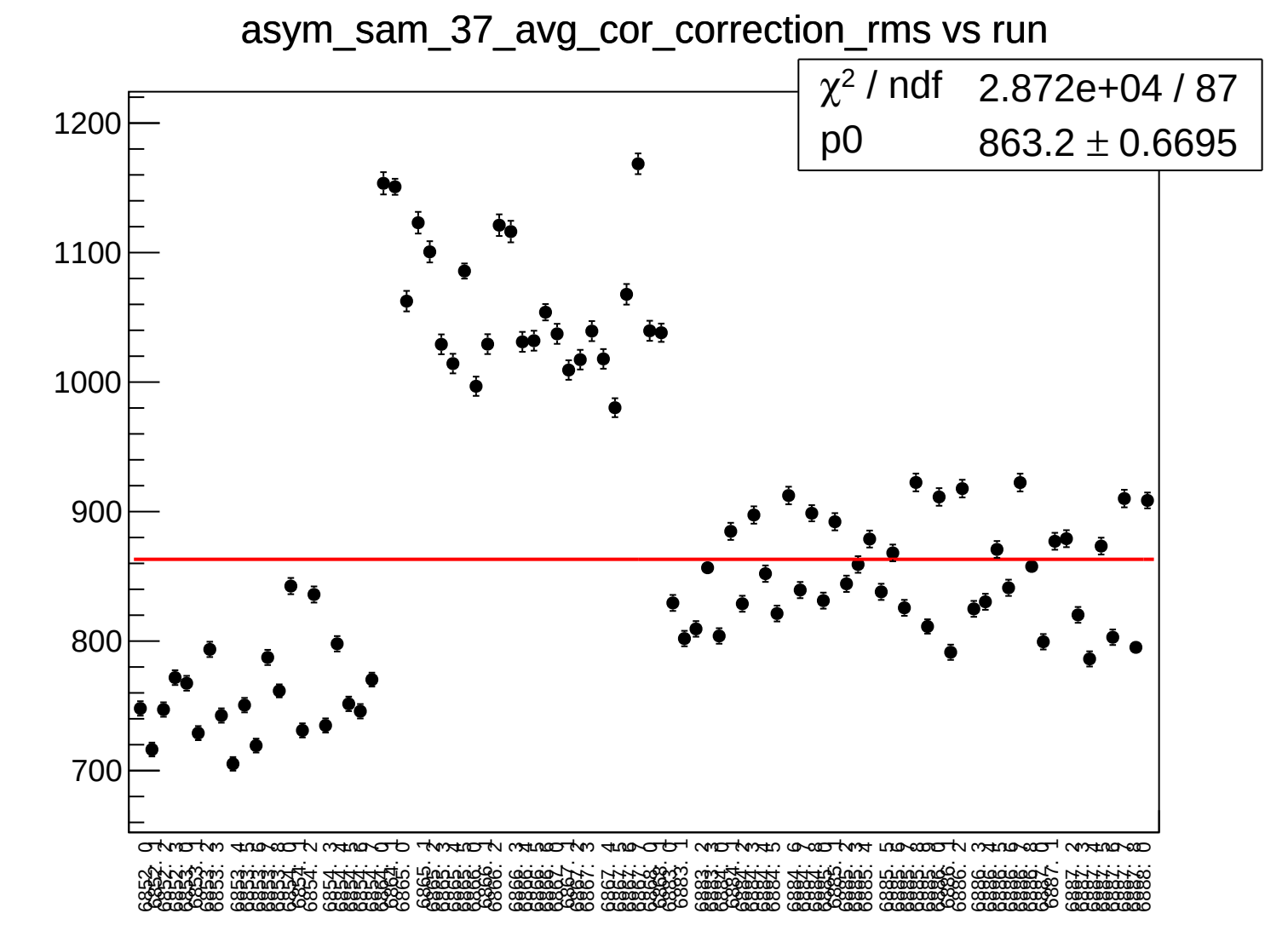

cor_asym_sam_37_avg_mean vs run
χ² / ndf 89.84 / 87
p0 −47.03 ± 77.57
pull
Entries 88
Mean 280.7
Std Dev 0

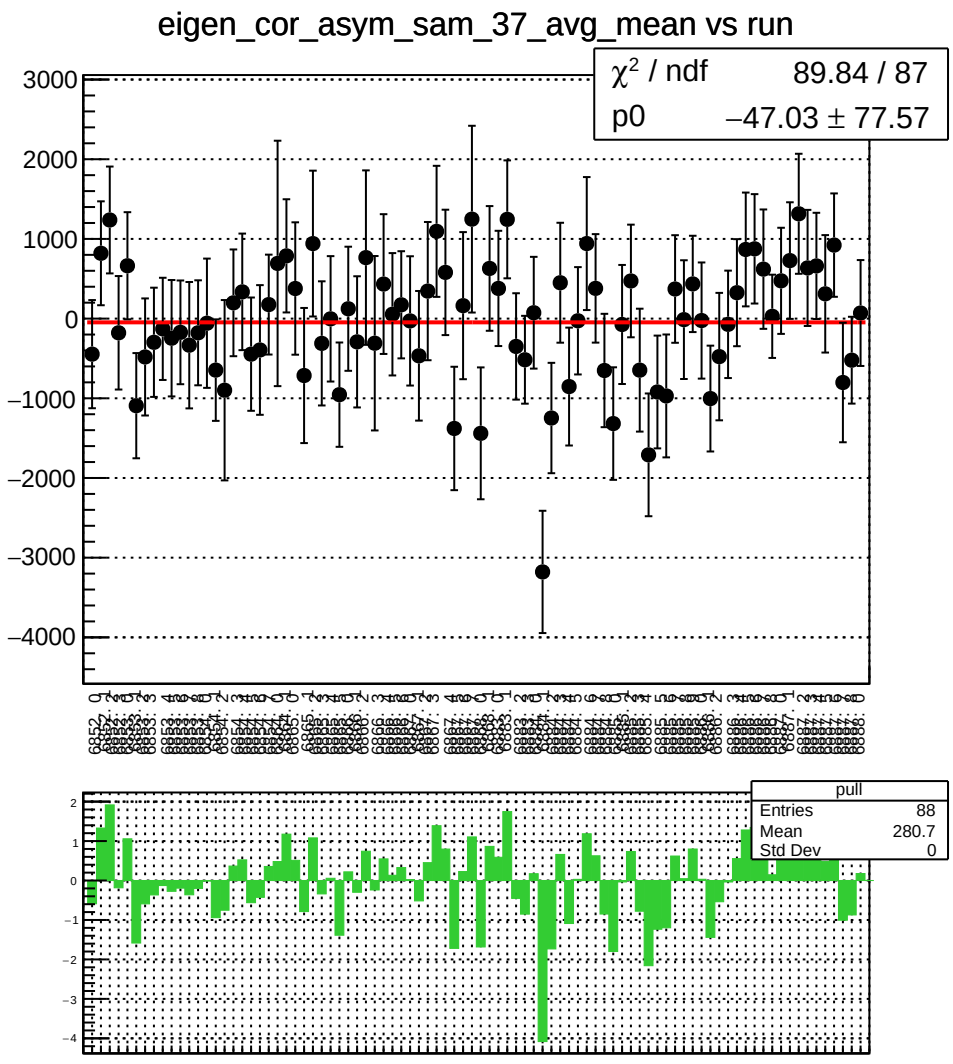

pull1D
Entries 88
Mean 0.007464
Std Dev 1.01

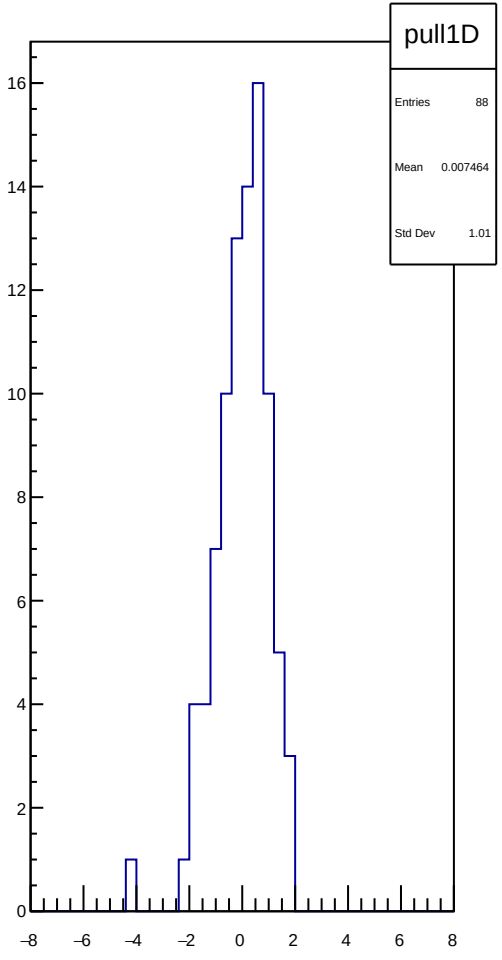

cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.939e+04 / 87
p0 70.7 ± 0.05485
140
120
100
80
60

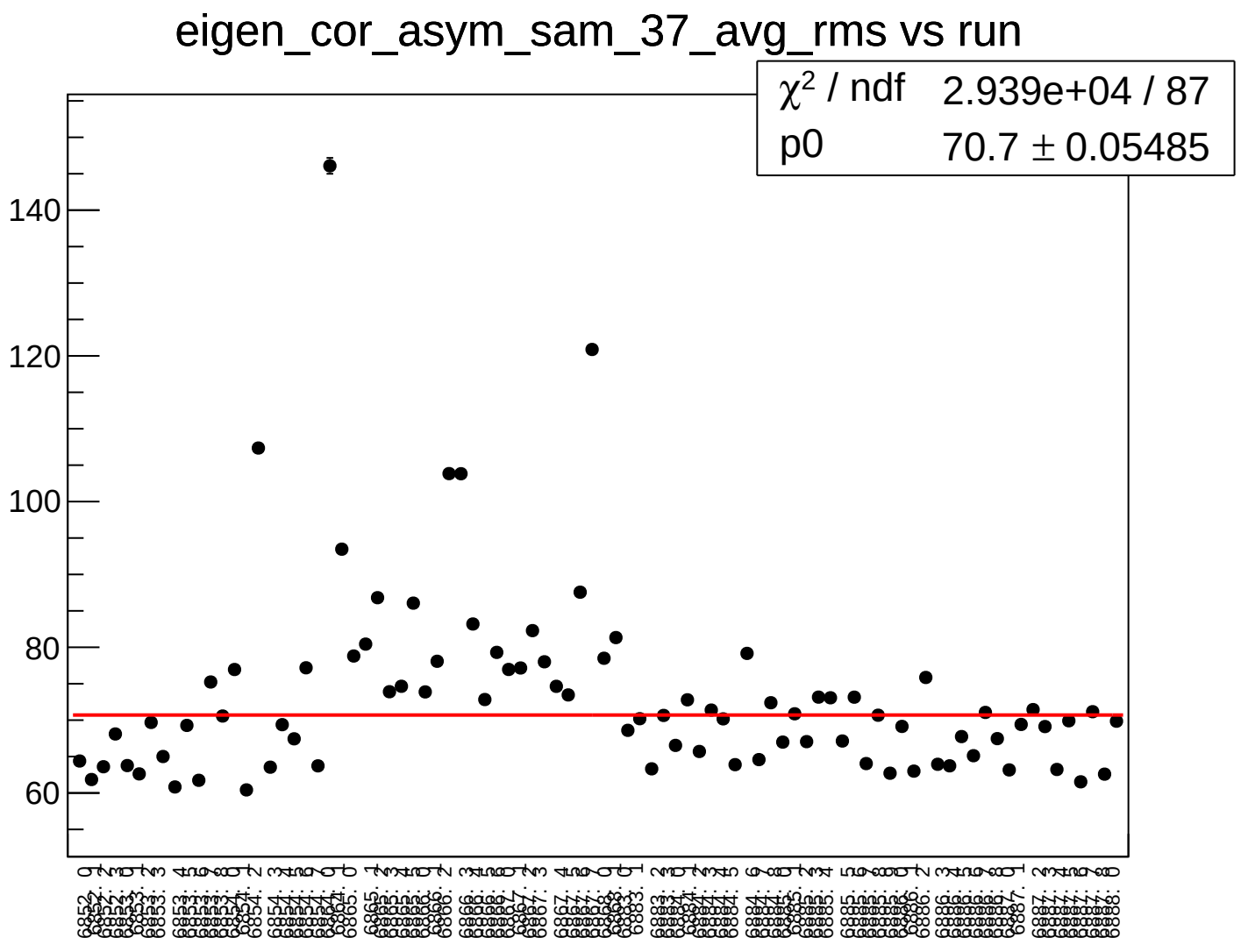

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 81.9 / 87
p0 −2311 ± 946.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 536.2
Std Dev 0
2
1
0
−1
−2
−3

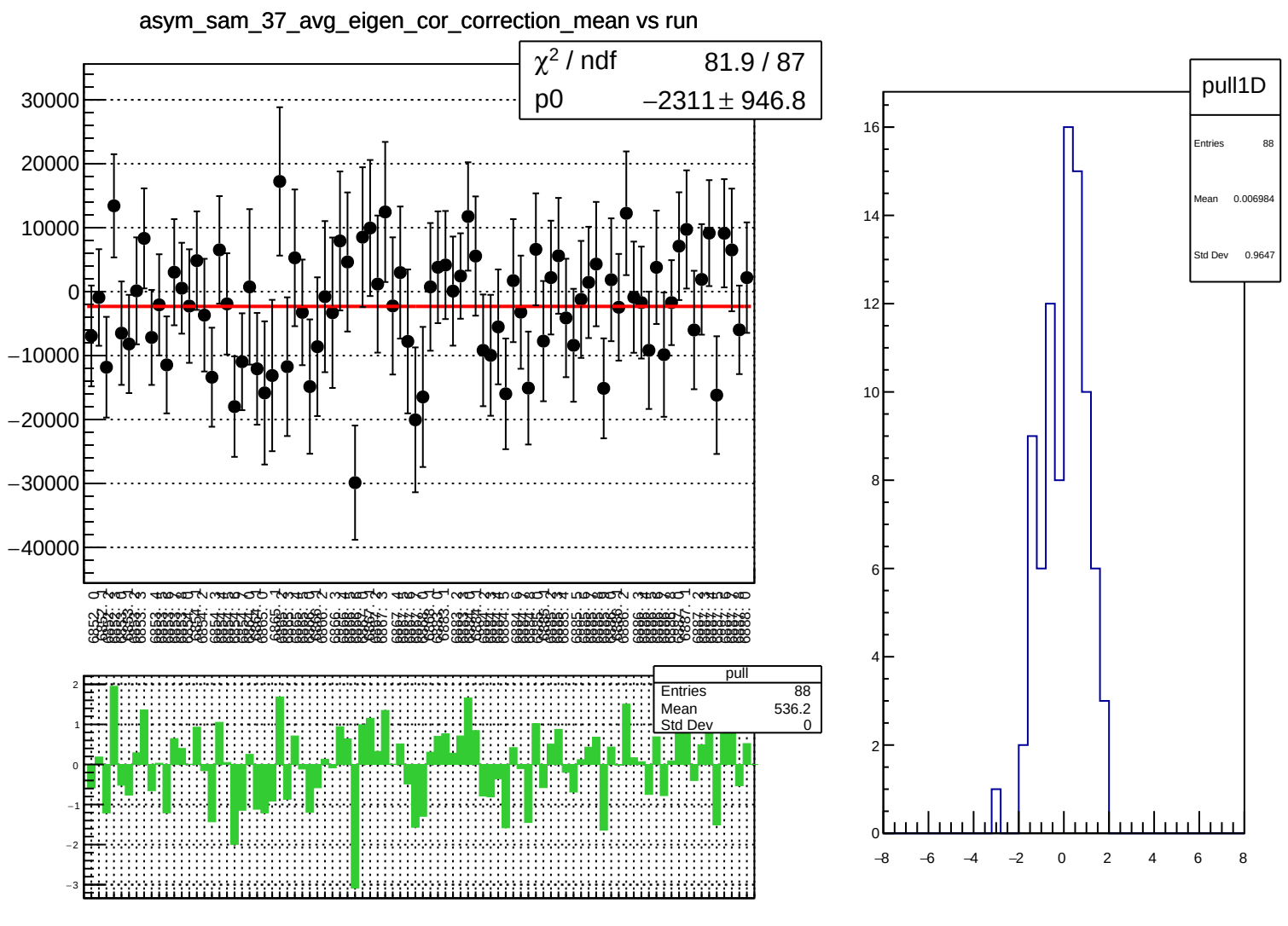

pull1D
Entries 88
Mean 0.006984
Std Dev 0.9647
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

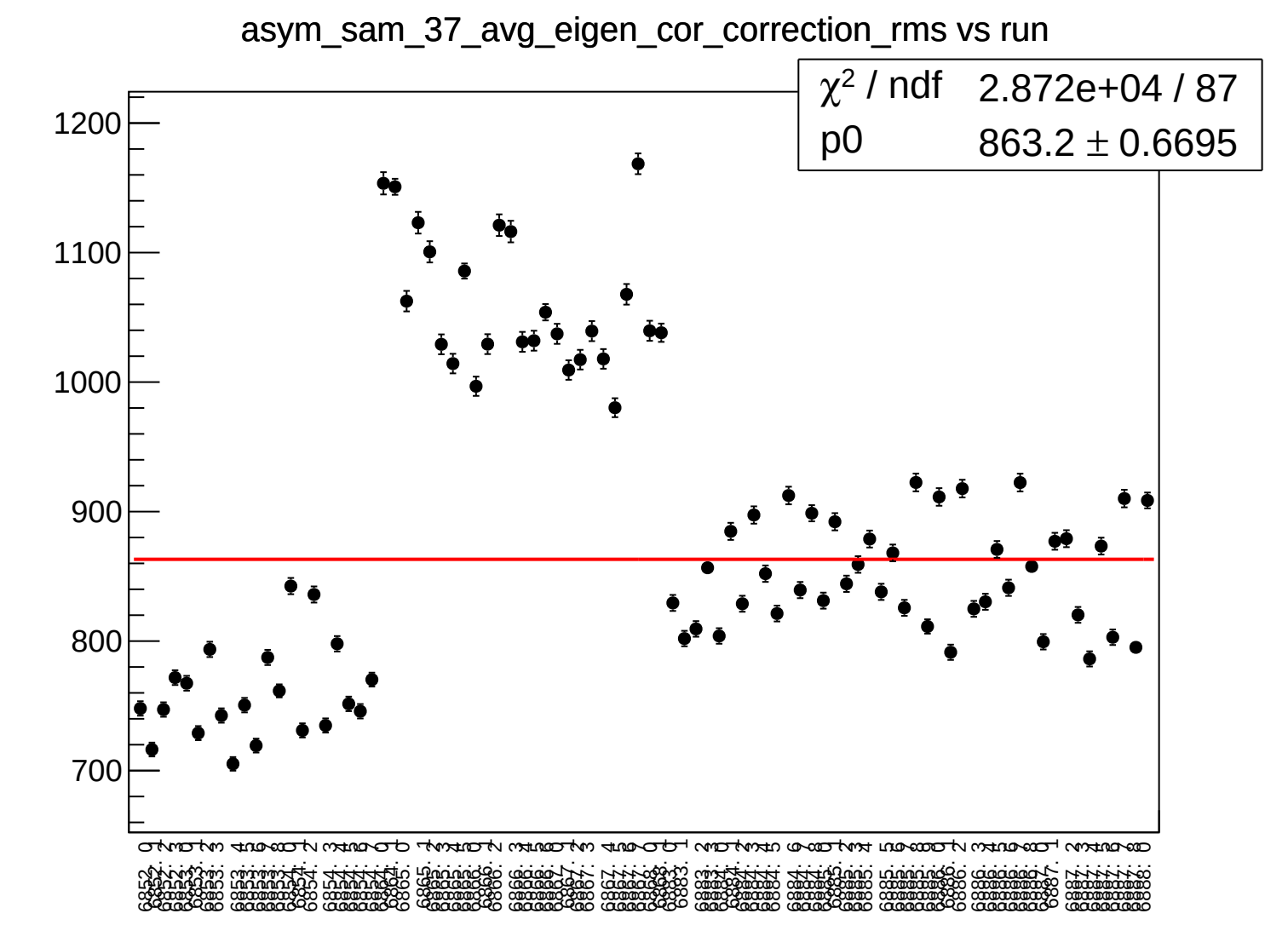

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 2.872e+04 / 87
p0 863.2 ± 0.6695
1200
1100
1000
900
800
700

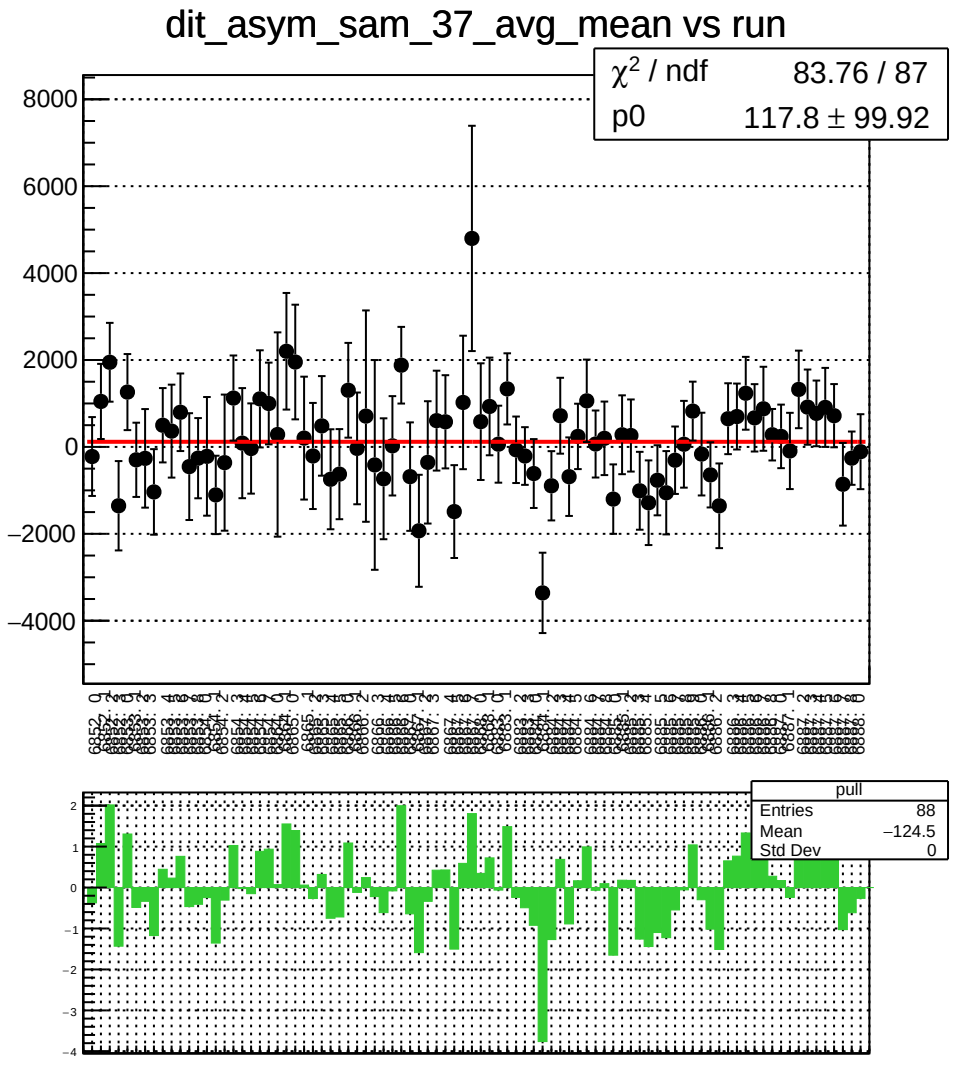

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 89.84 / 87
p0 −47.03 ± 77.57
pull
Entries 88
Mean 280.7
Std Dev 0

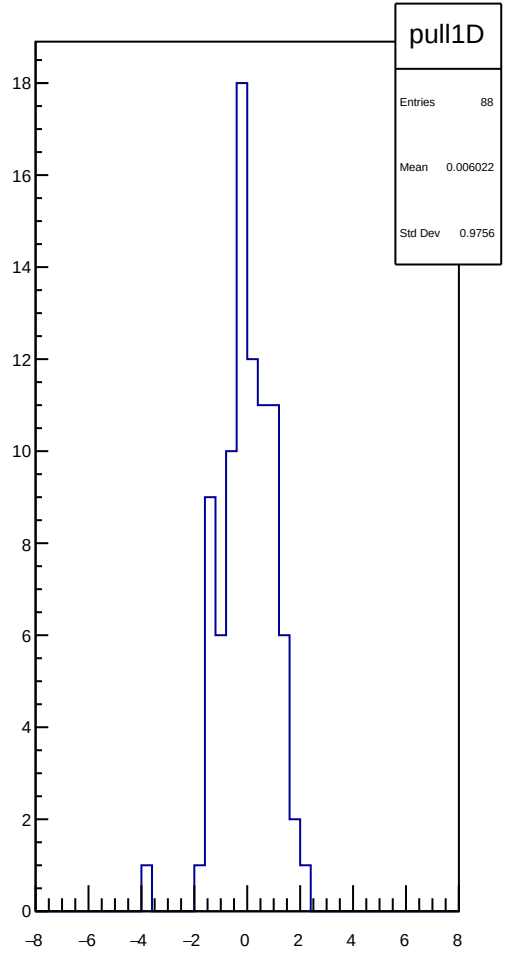

pull1D
Entries 88
Mean 0.007464
Std Dev 1.01

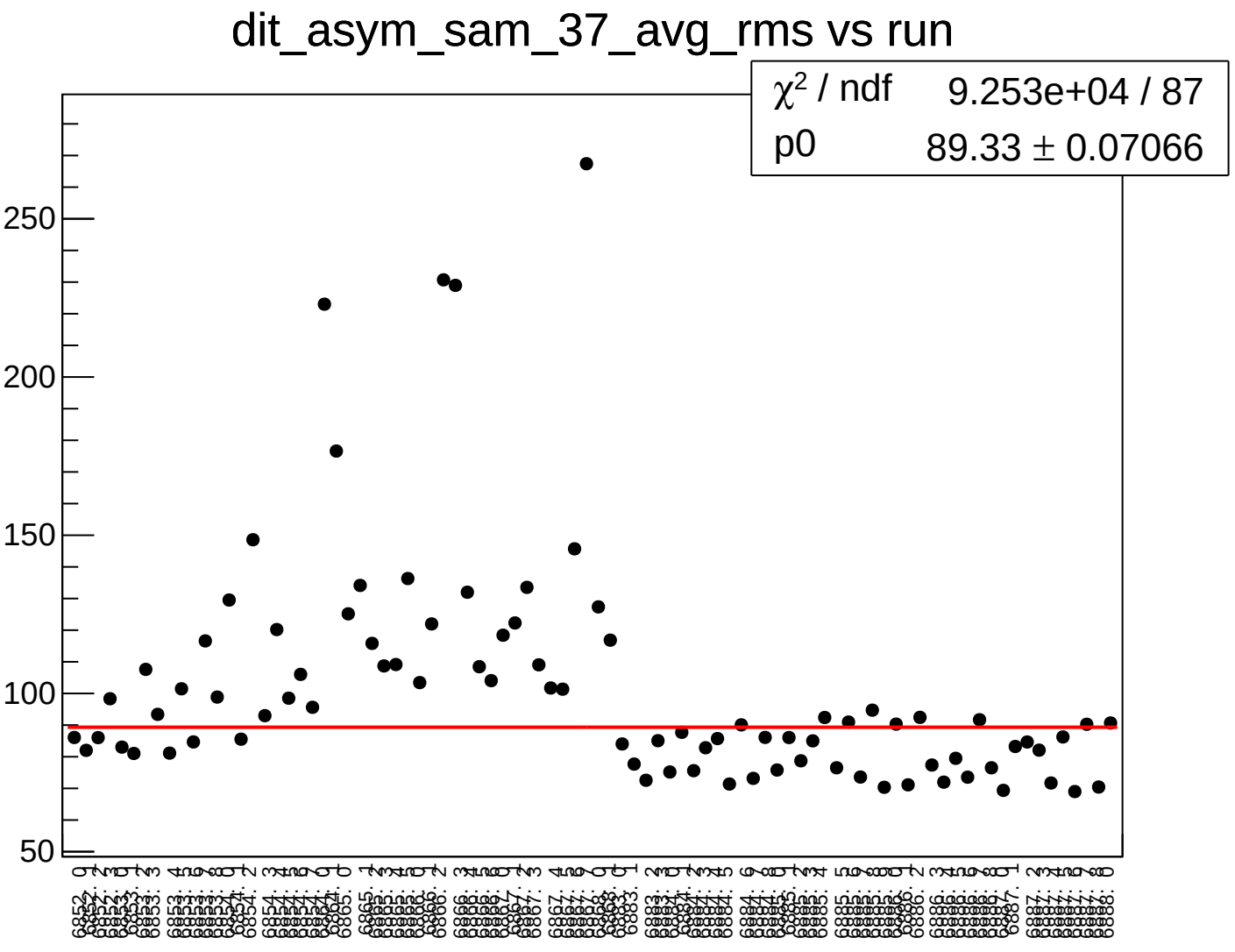

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.939e+04 / 87
p0 70.7 ± 0.05485
140
120
100
80
60

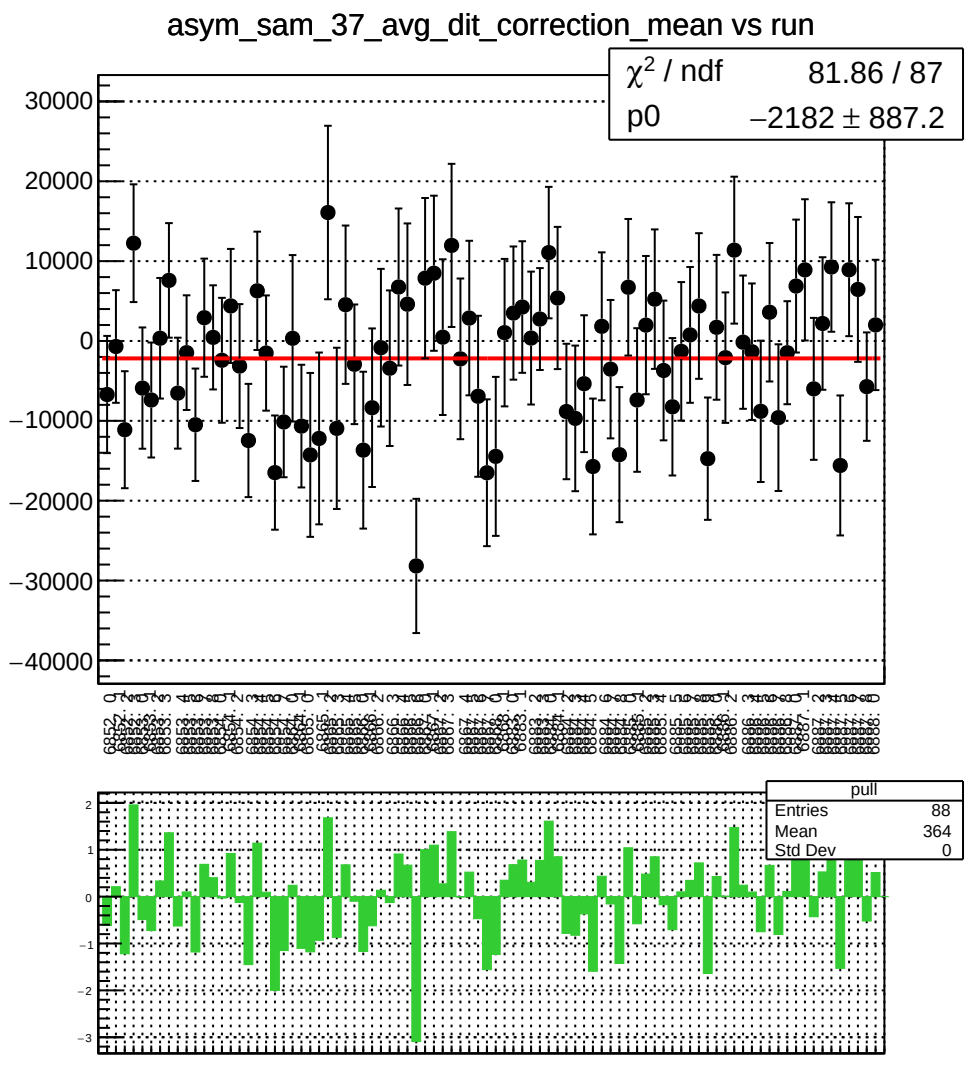

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.9 / 87
p0 −2311 ± 946.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 536.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.006984
Std Dev 0.9647
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

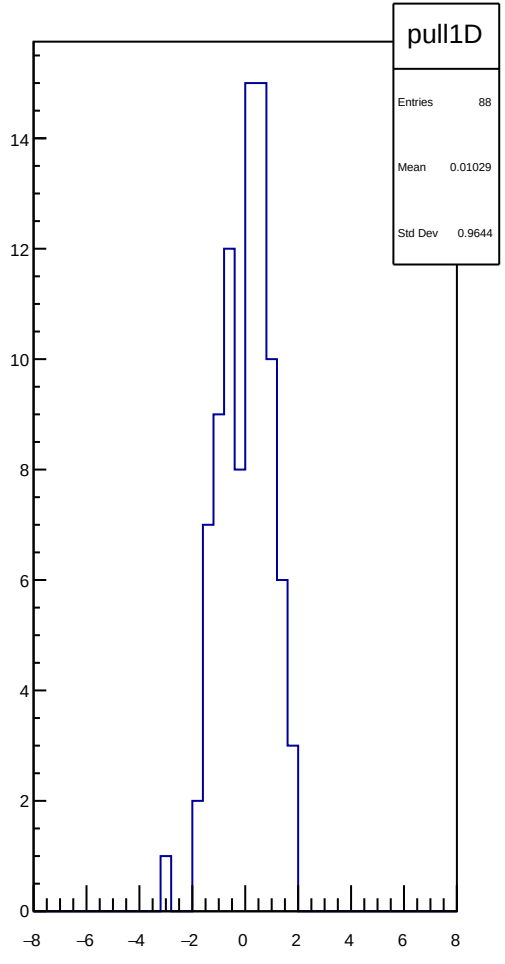

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.872e+04 / 87
p0 863.2 ± 0.6695
1200
1100
1000
900
800
700

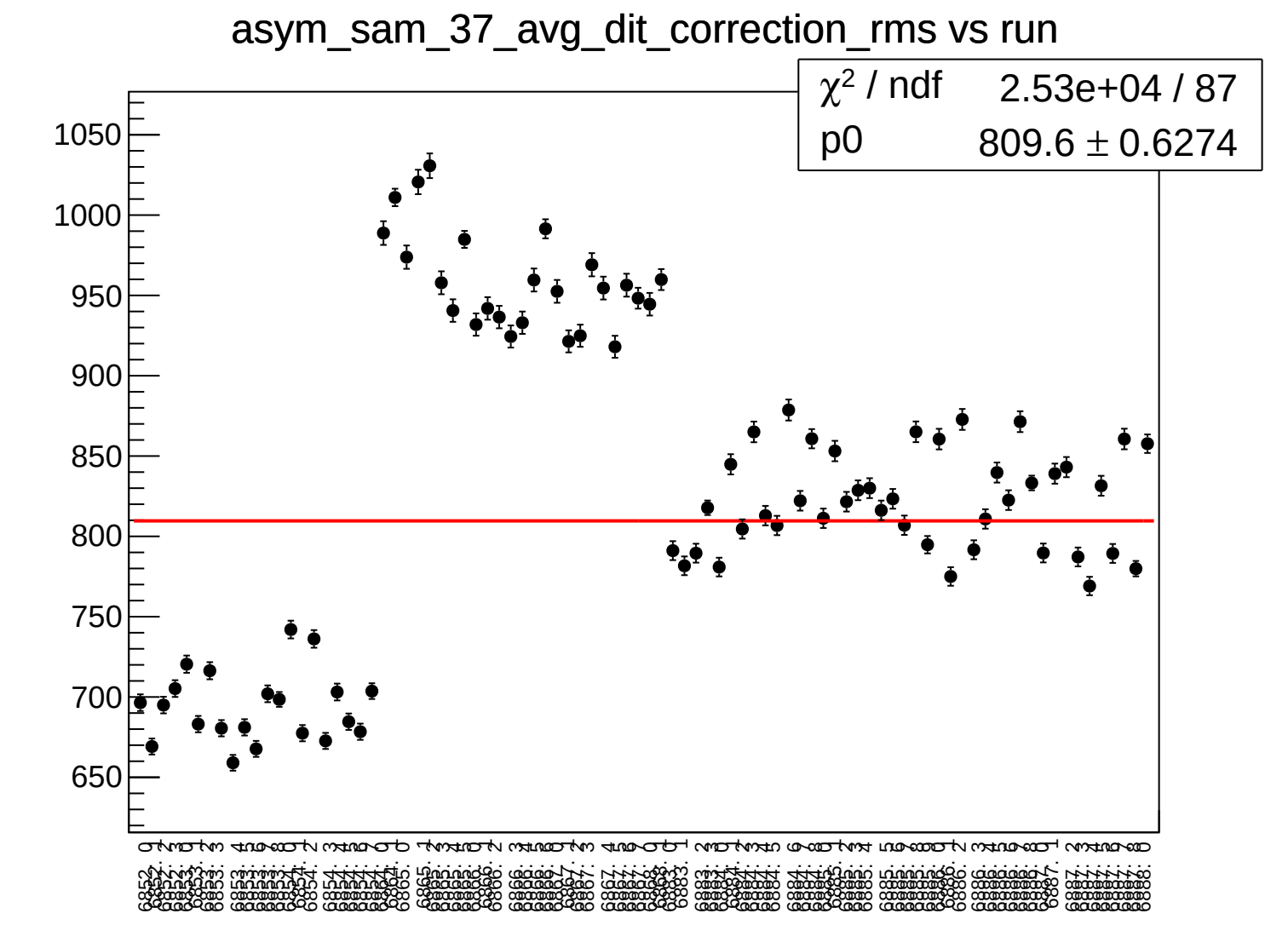

dit_asym_sam_37_avg_mean vs run
χ² / ndf 83.76 / 87
p0 117.8 ± 99.92
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −124.5
Std Dev 0
2
1
0
−1
−2
−3
−4

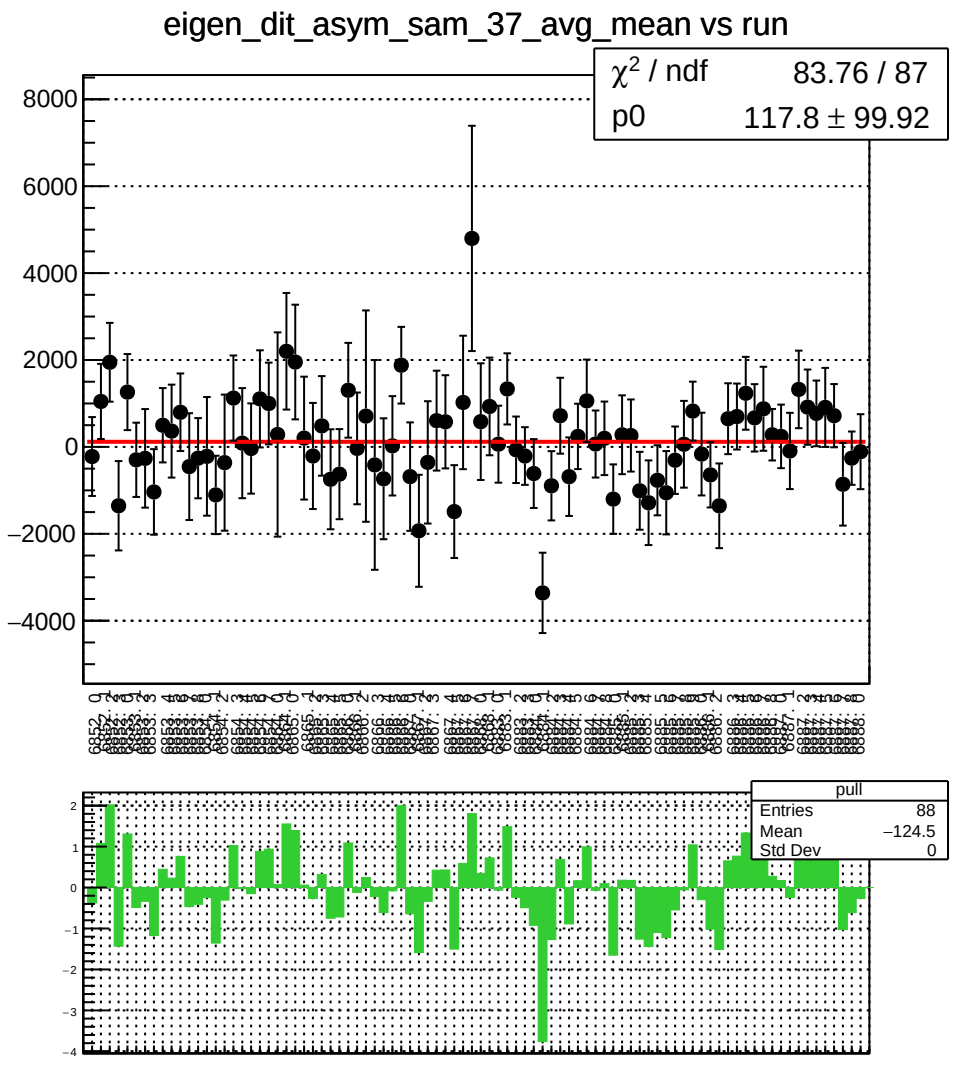

pull1D
Entries 88
Mean 0.006022
Std Dev 0.9756
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

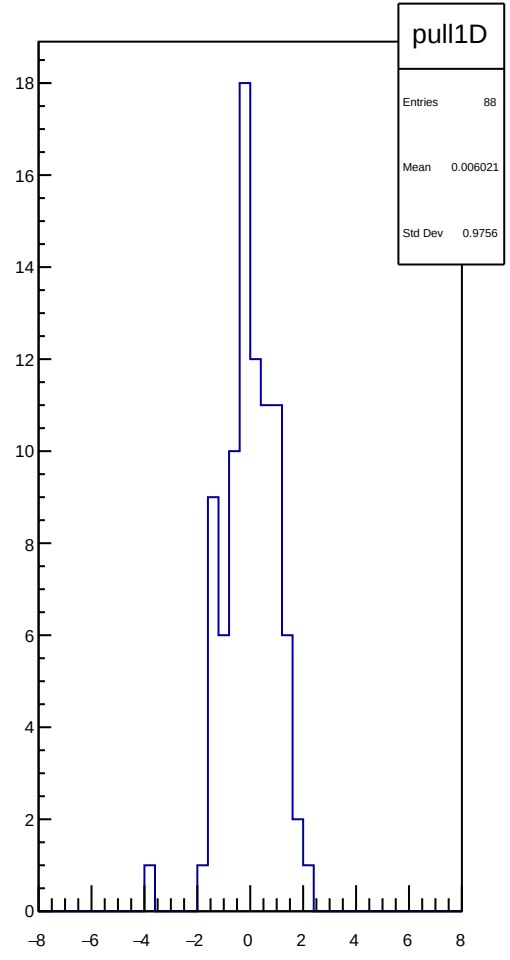

dit_asym_sam_37_avg_rms vs run
χ² / ndf 9.253e+04 / 87
p0 89.33 ± 0.07066
250
200
150
100
50

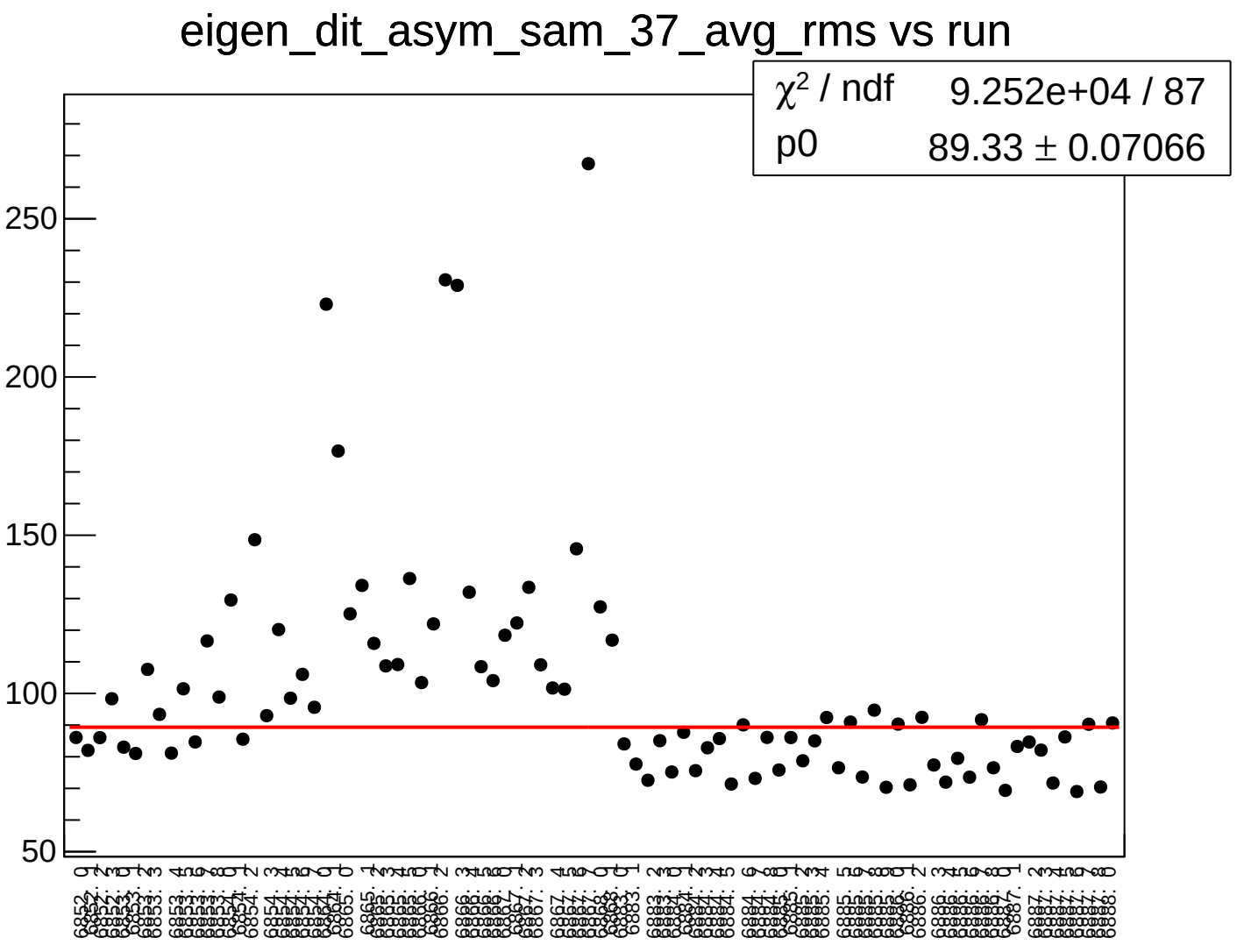

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 81.86 / 87
p0 −2182 ± 887.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 364
Std Dev 0
2
1
0
−1
−2
−3

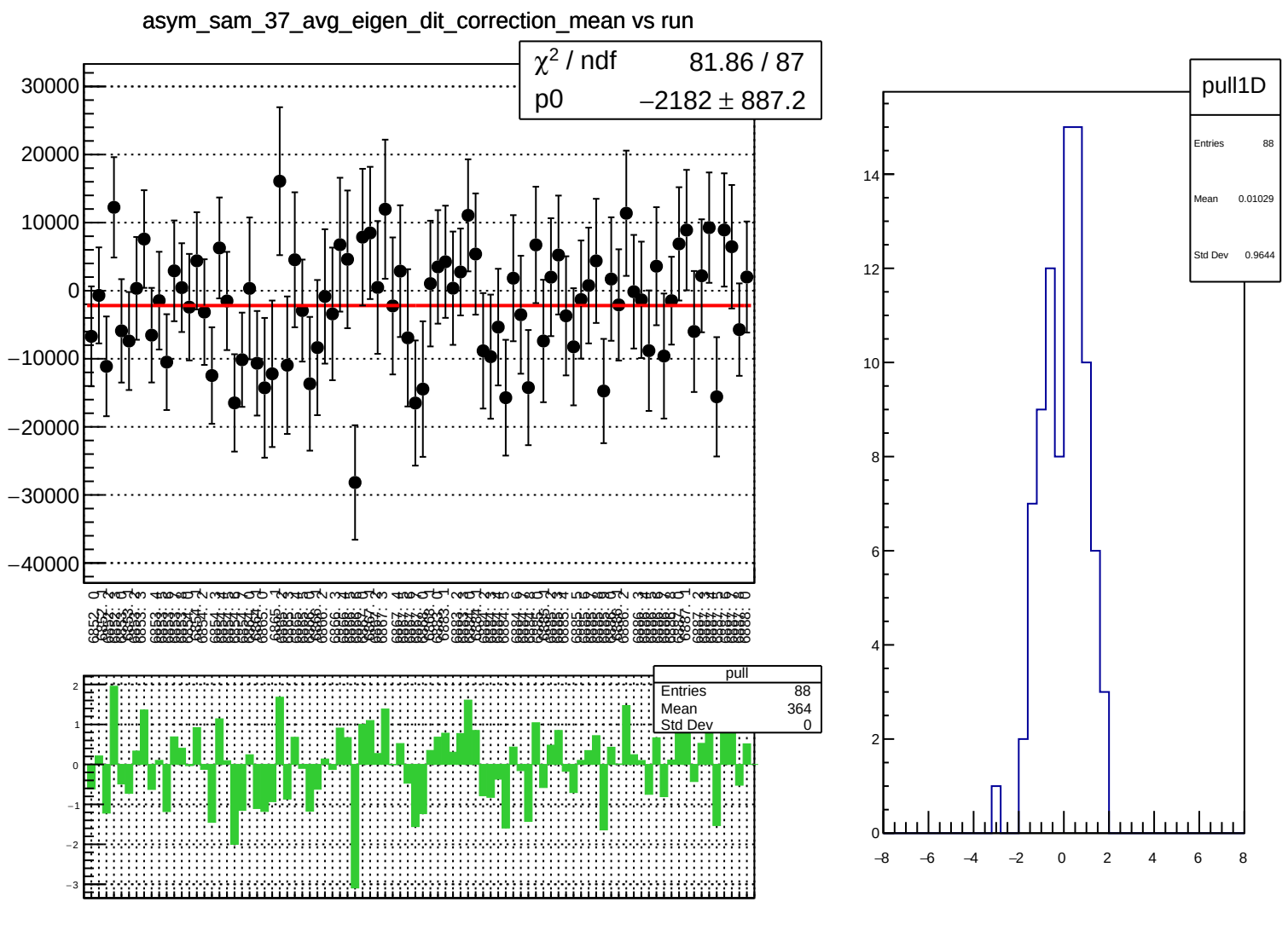

pull1D
Entries 88
Mean 0.01029
Std Dev 0.9644
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

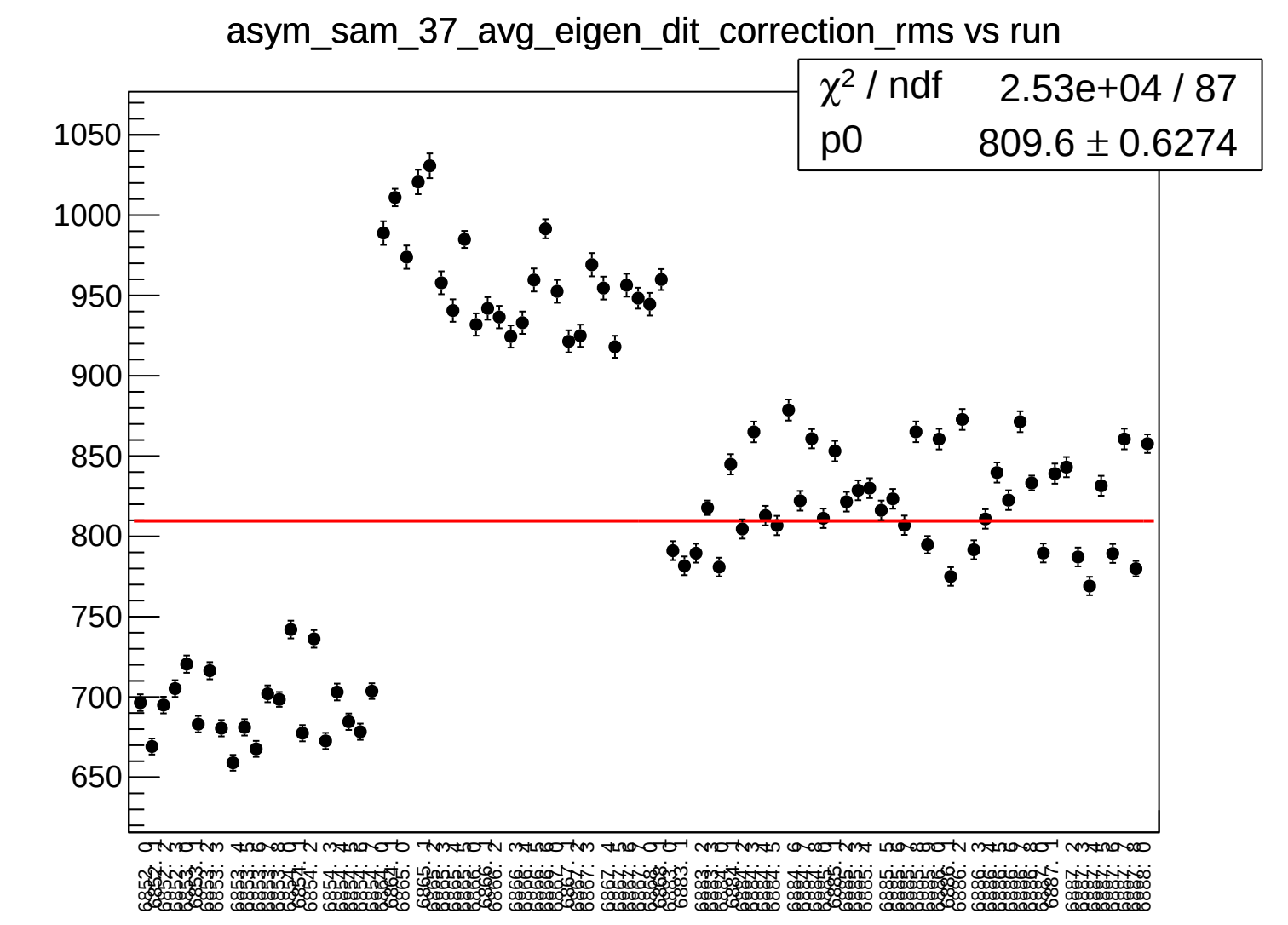

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 2.53e+04 / 87
p0 809.6 ± 0.6274
1050
1000
950
900
850
800
750
700
650

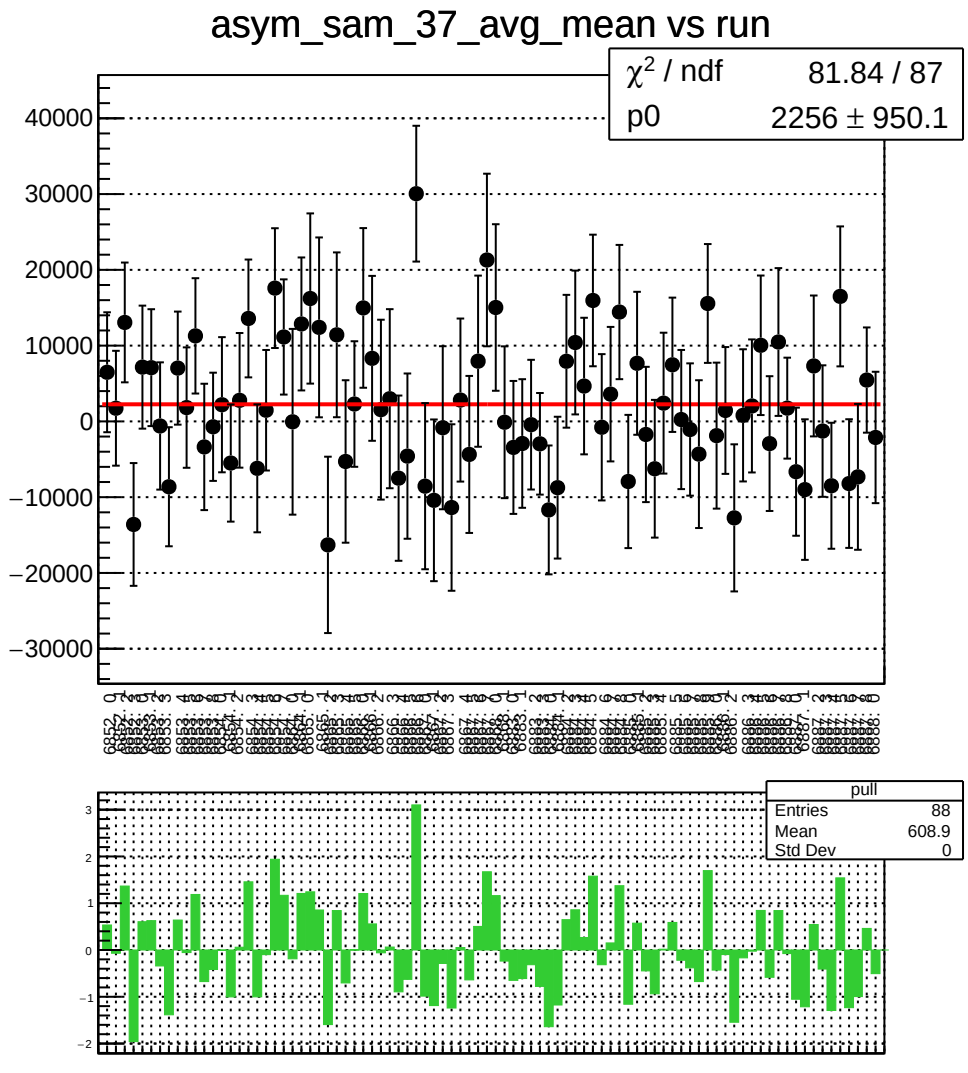

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 83.76 / 87
p0 117.8 ± 99.92
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −124.5
Std Dev 0
2
1
0
−1
−2
−3
−4

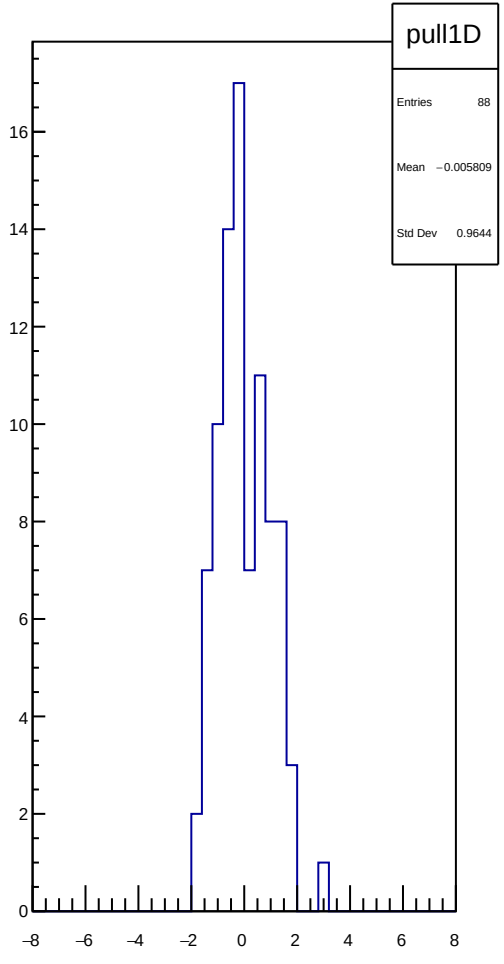

pull1D
Entries 88
Mean 0.006021
Std Dev 0.9756
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

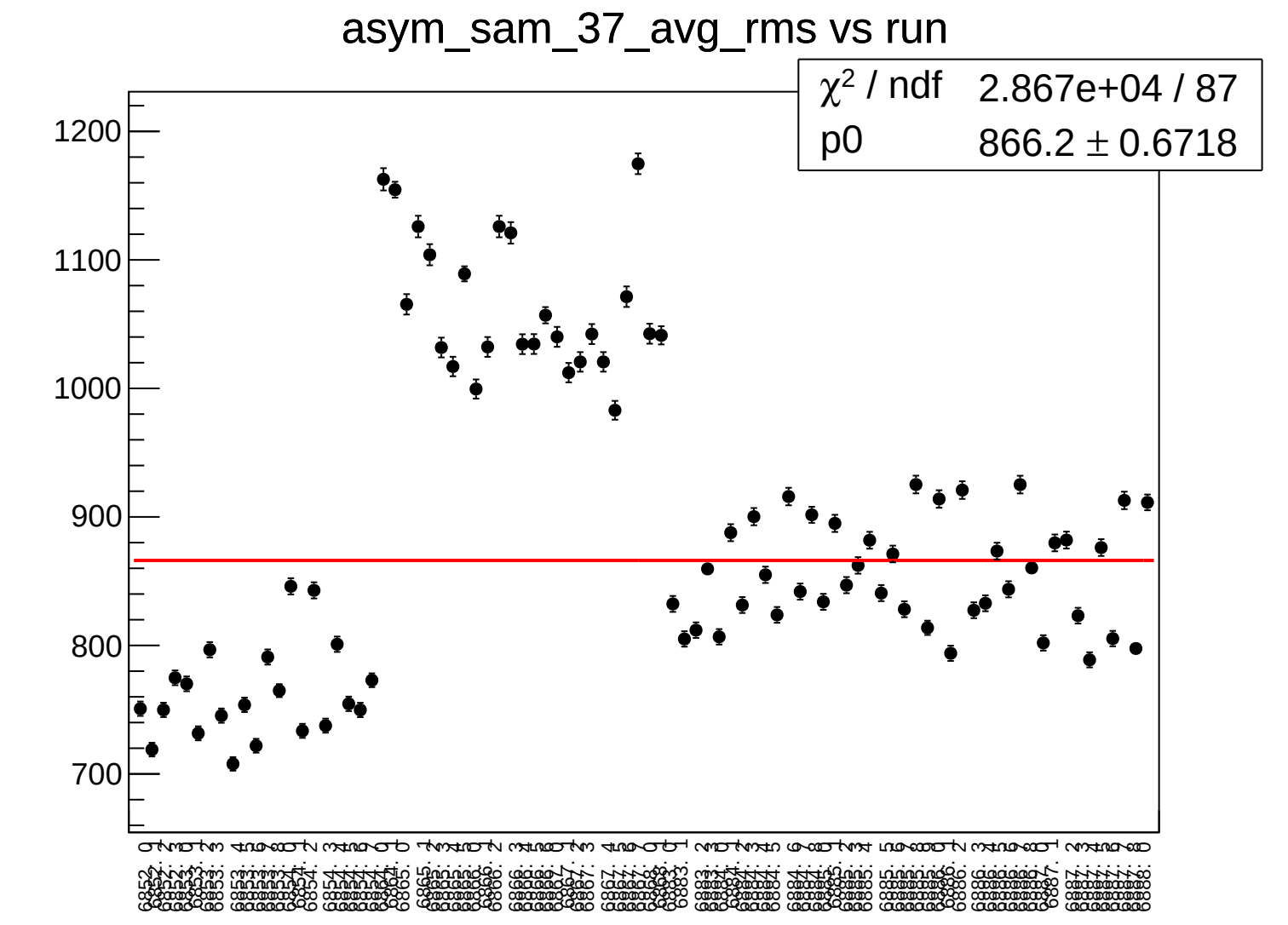

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 9.252e+04 / 87
p0 89.33 ± 0.07066
250
200
150
100
50

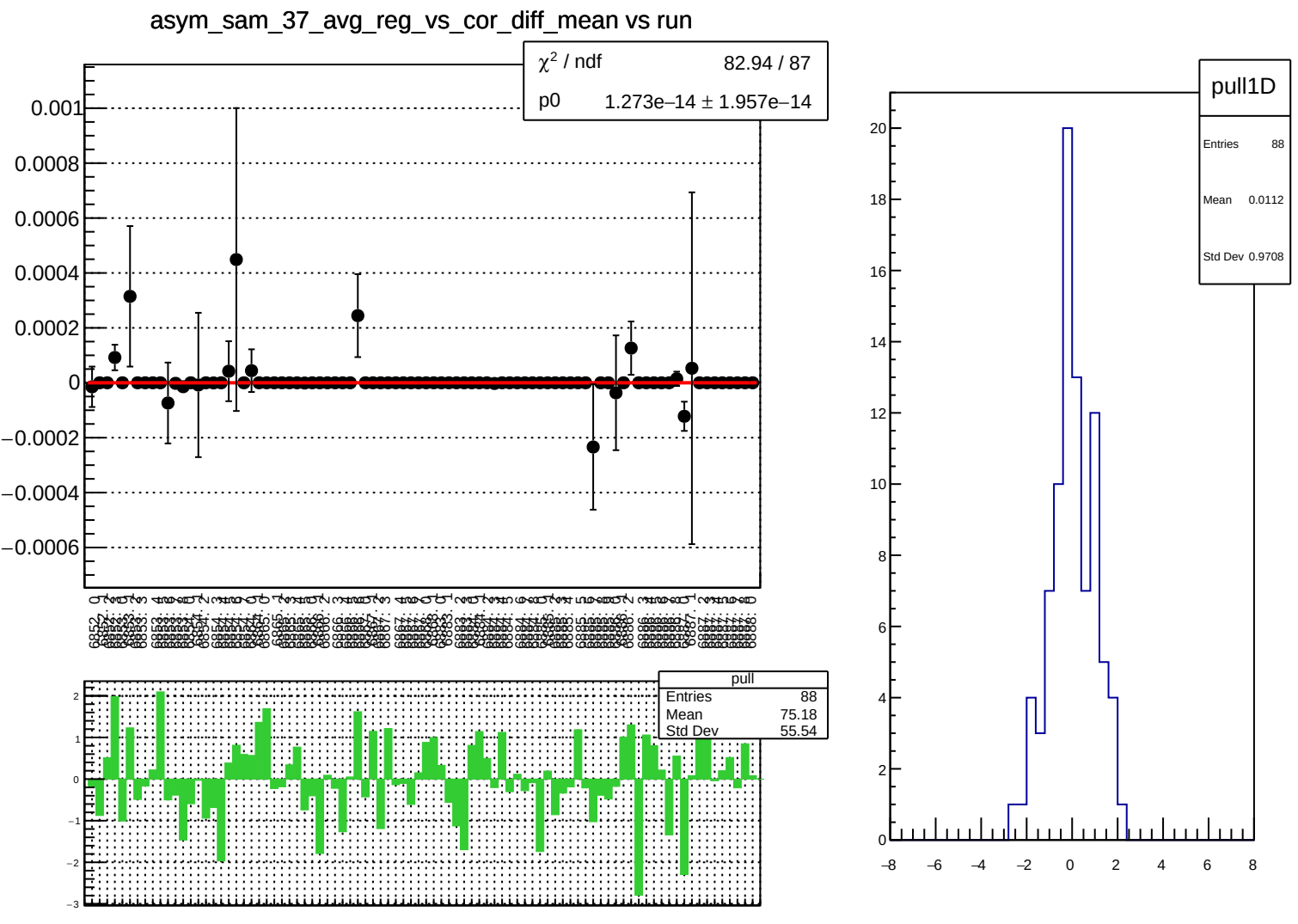

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.86 / 87
p0 −2182 ± 887.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 364
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01029
Std Dev 0.9644
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

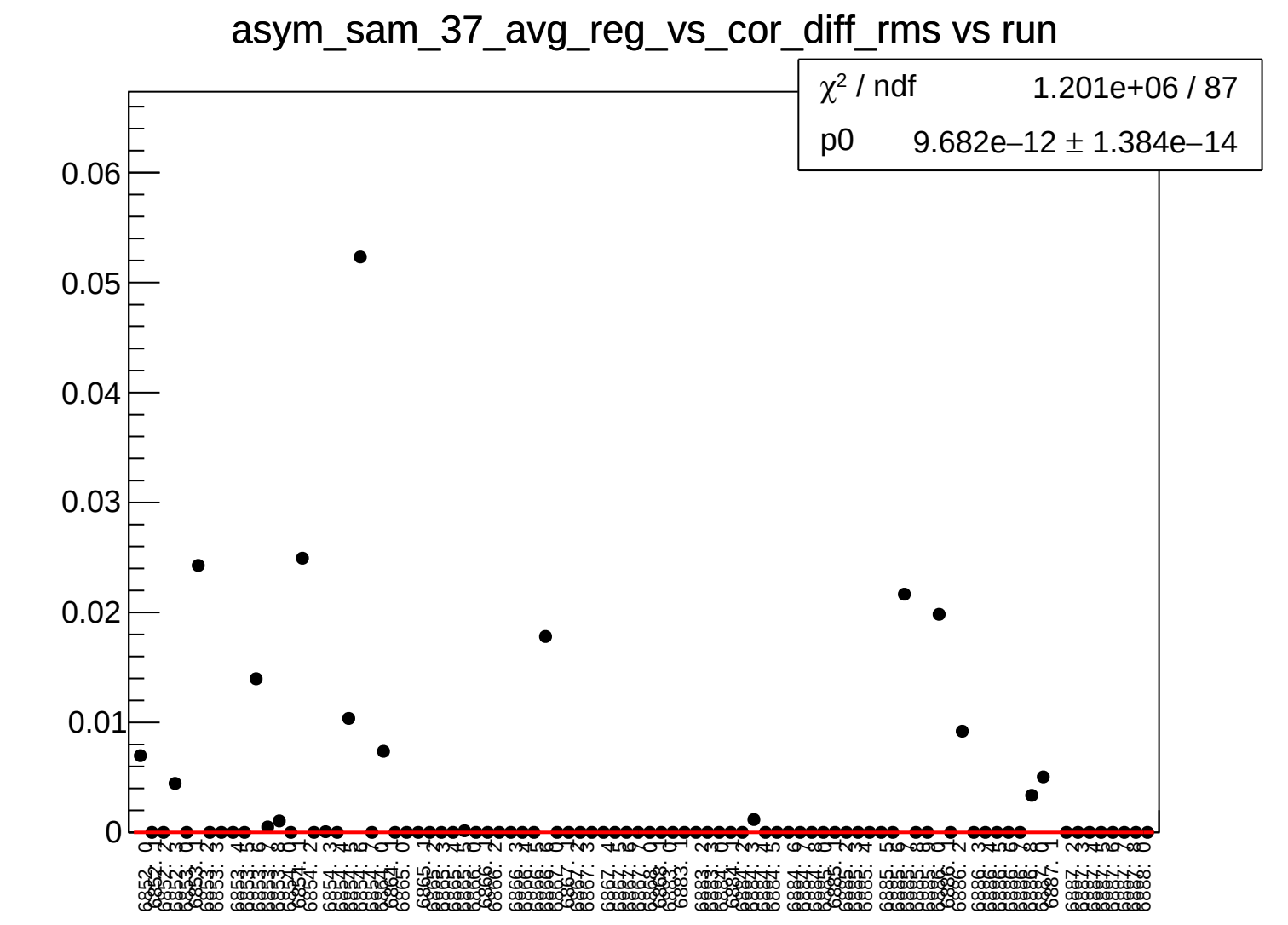

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.53e+04 / 87
p0 809.6 ± 0.6274
1050
1000
950
900
850
800
750
700
650

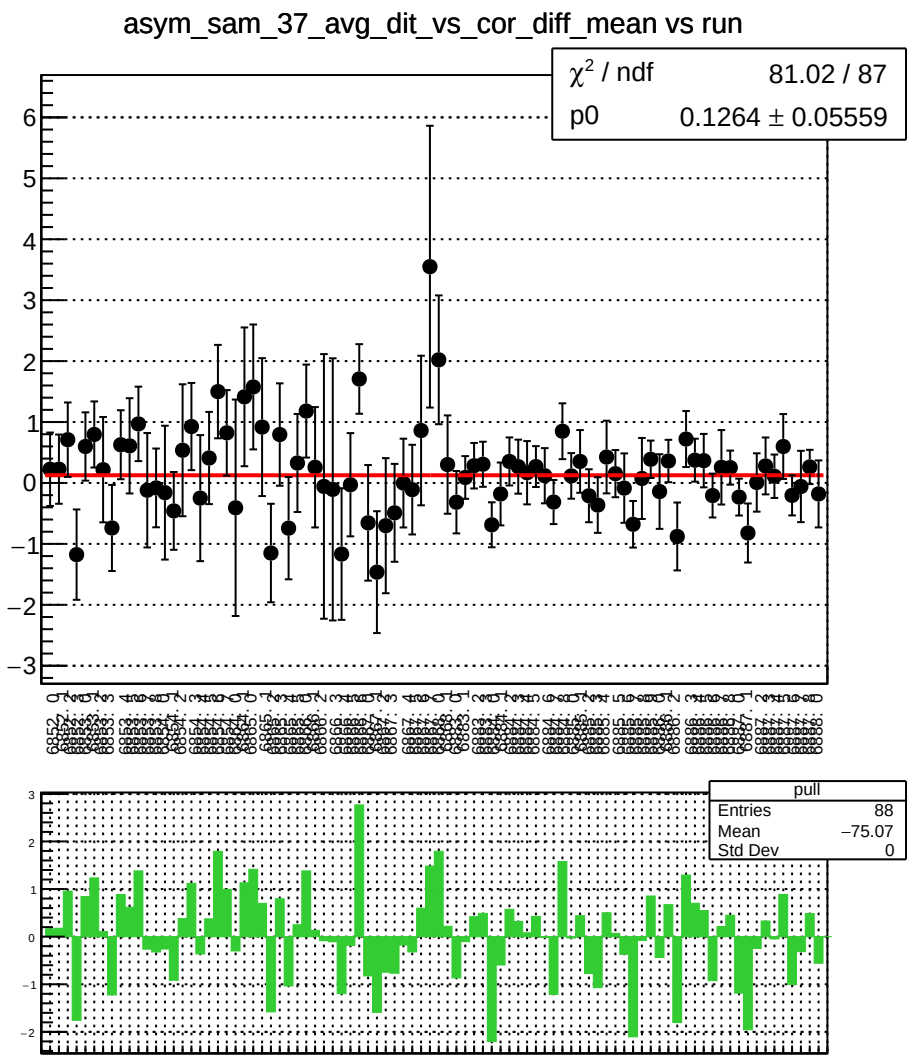

asym_sam_37_avg_mean vs run
χ² / ndf 81.84 / 87
p0 2256 ± 950.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 608.9
Std Dev 0
3
2
1
0
−1
−2

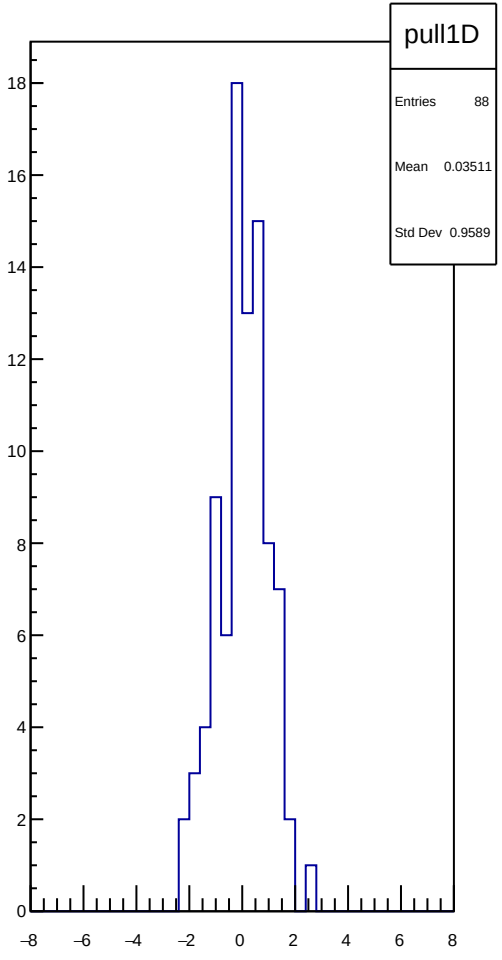

pull1D
Entries 88
Mean −0.005809
Std Dev 0.9644
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

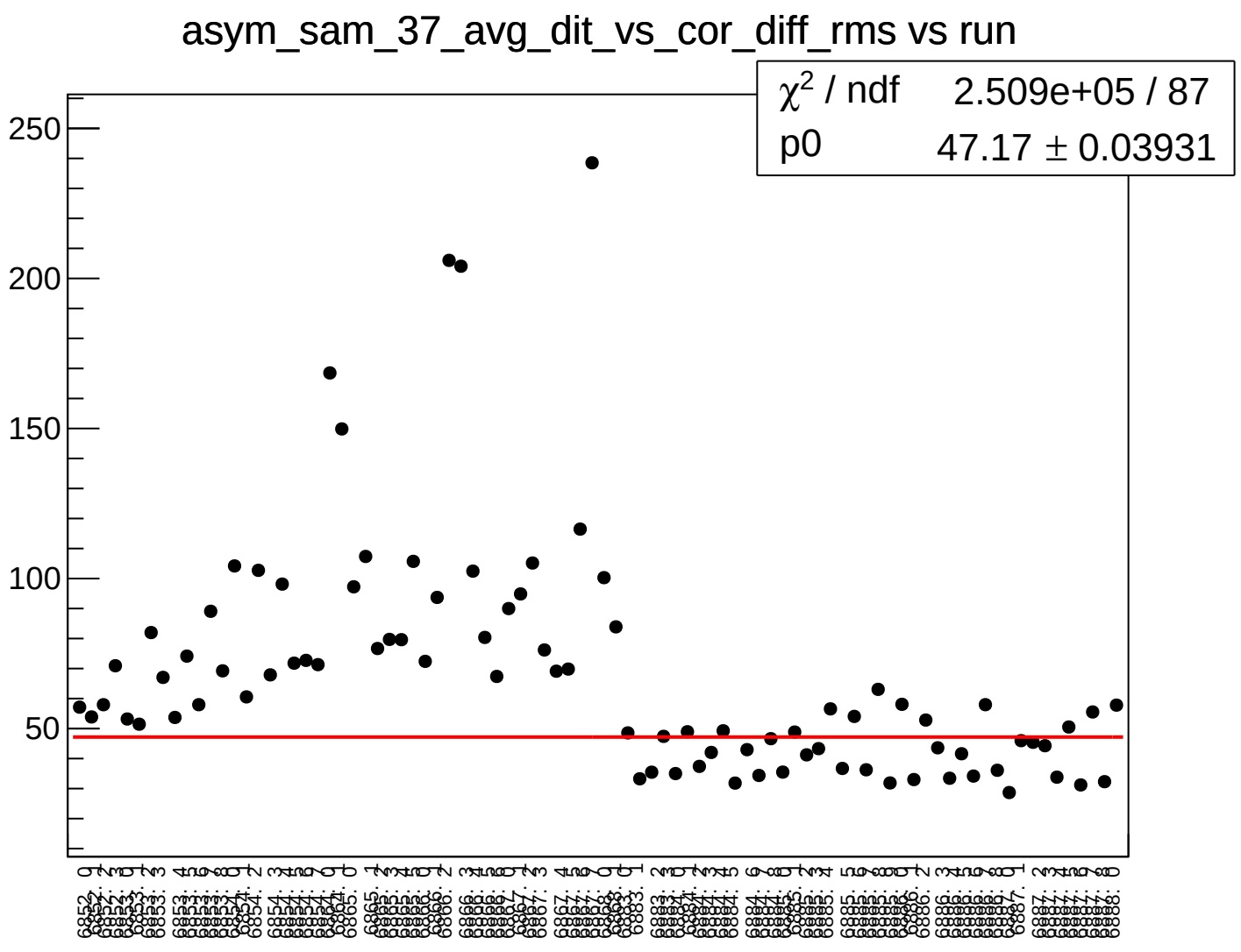

asym_sam_37_avg_rms vs run
χ² / ndf 2.867e+04 / 87
p0 866.2 ± 0.6718
1200
1100
1000
900
800
700

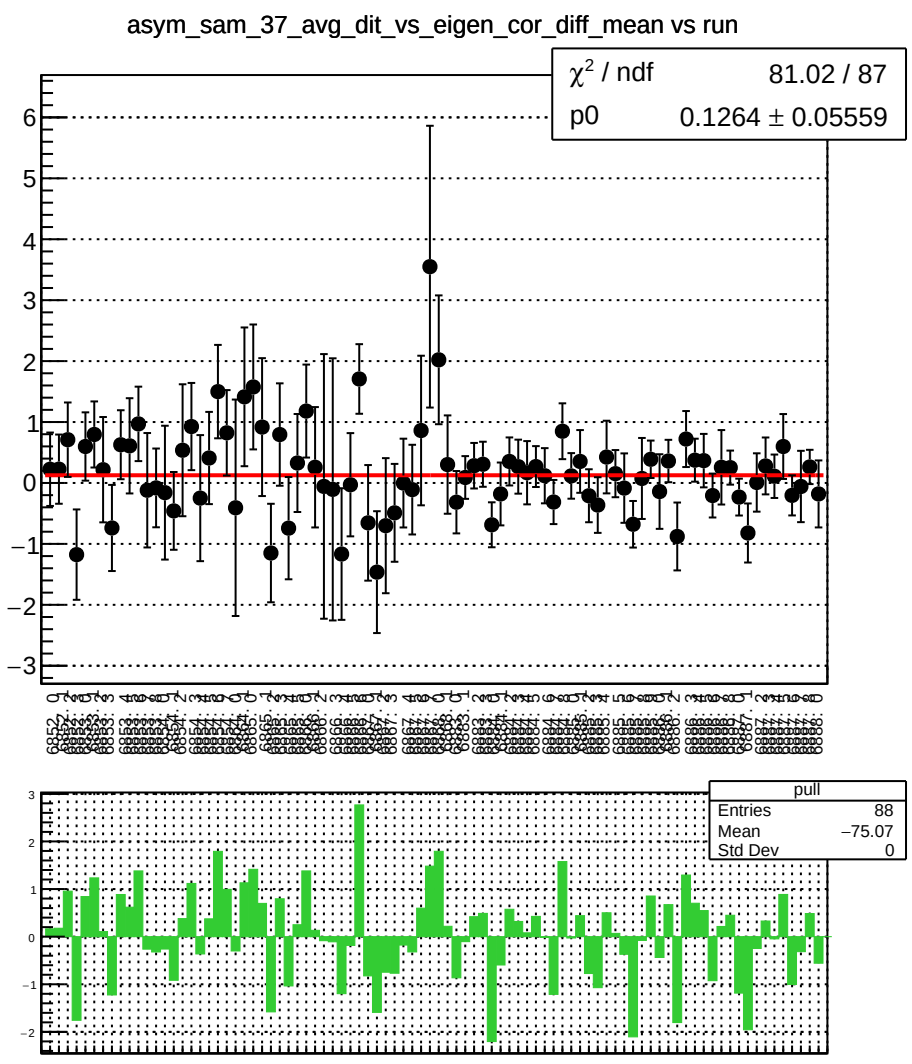

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.94 / 87
p0 1.273e−14 ± 1.957e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 88
Mean 75.18
Std Dev 55.54
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0112
Std Dev 0.9708
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

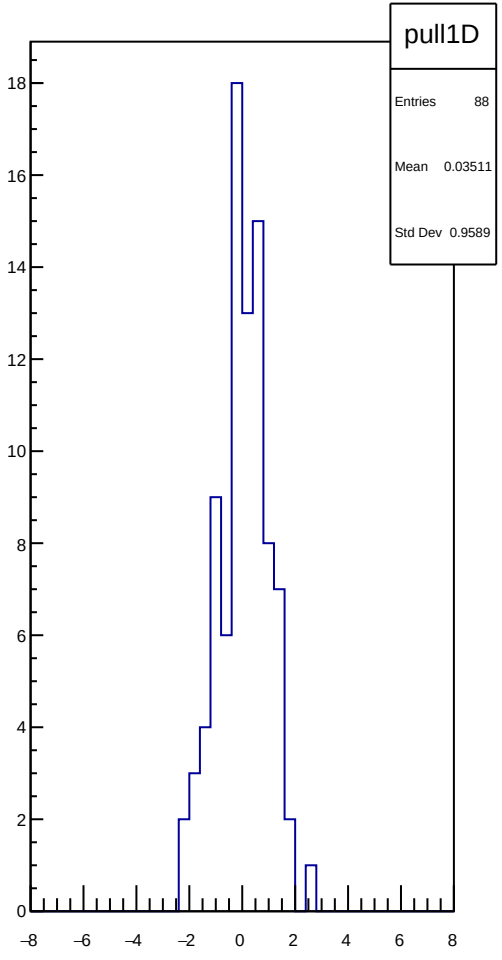

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.201e+06 / 87
p0 9.682e−12 ± 1.384e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

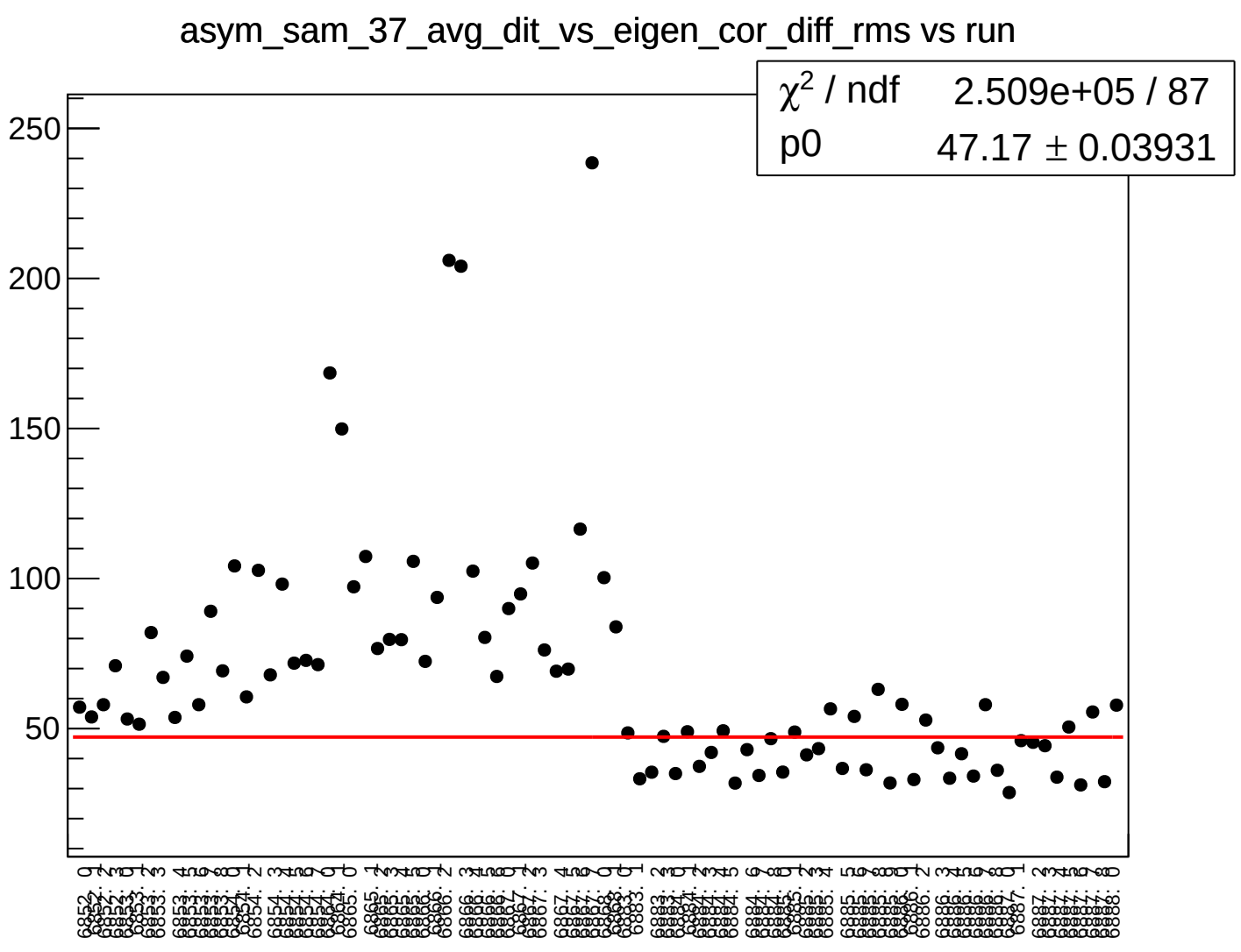

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.02 / 87
p0 0.1264 ± 0.05559
pull
Entries 88
Mean −75.07
Std Dev 0

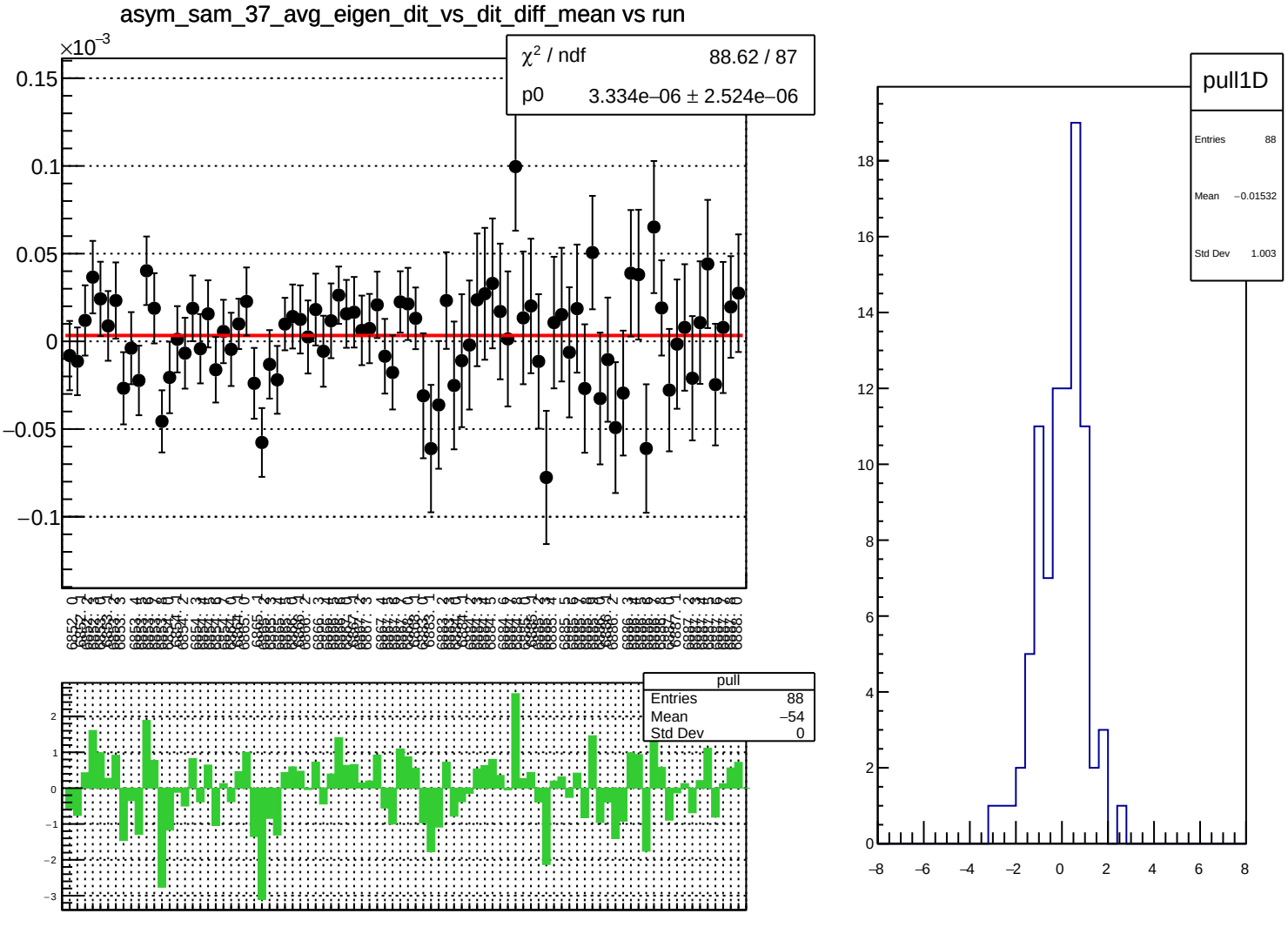

pull1D
Entries 88
Mean 0.03511
Std Dev 0.9589

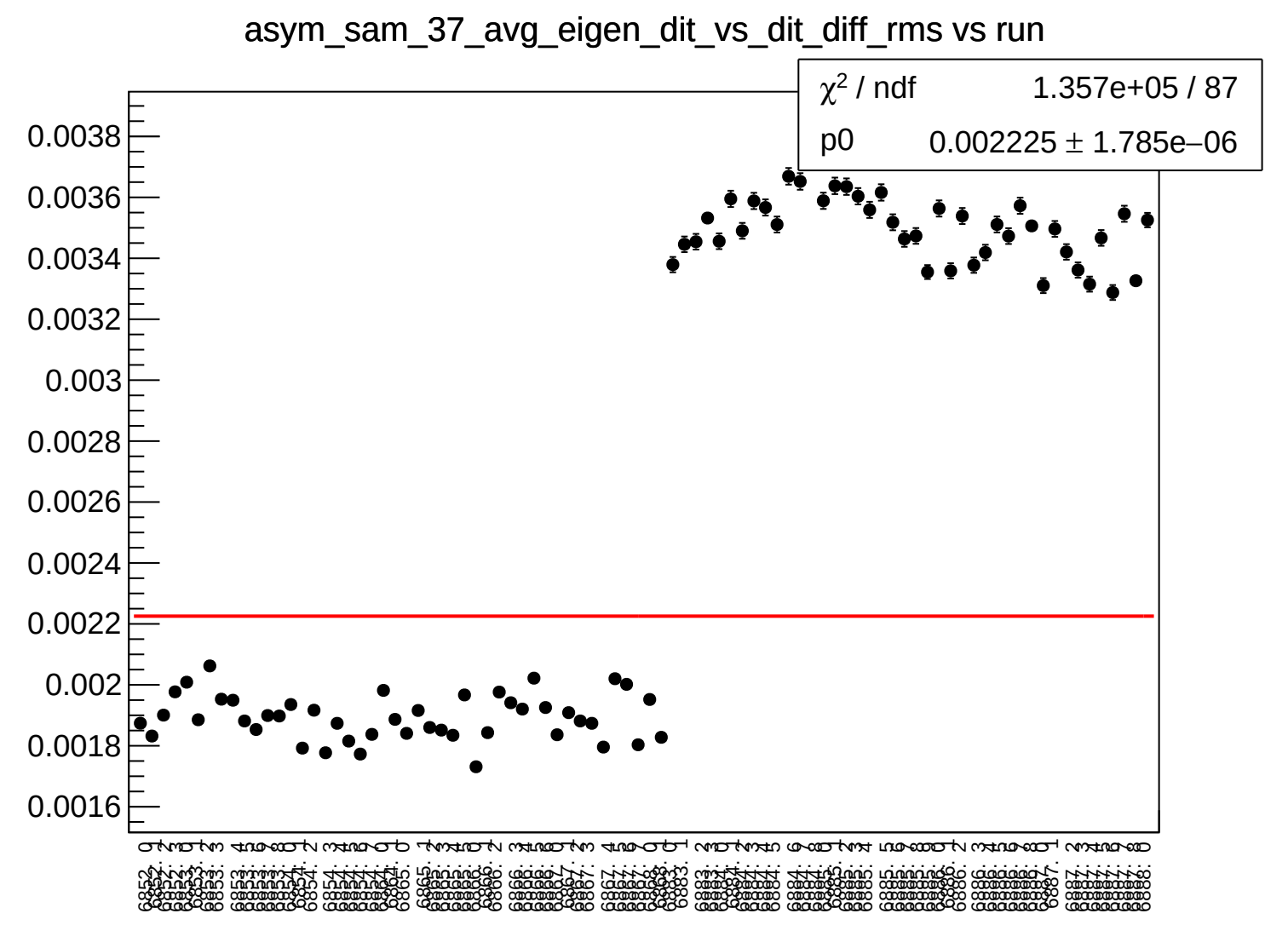

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.509e+05 / 87
p0 47.17 ± 0.03931
250
200
150
100
50

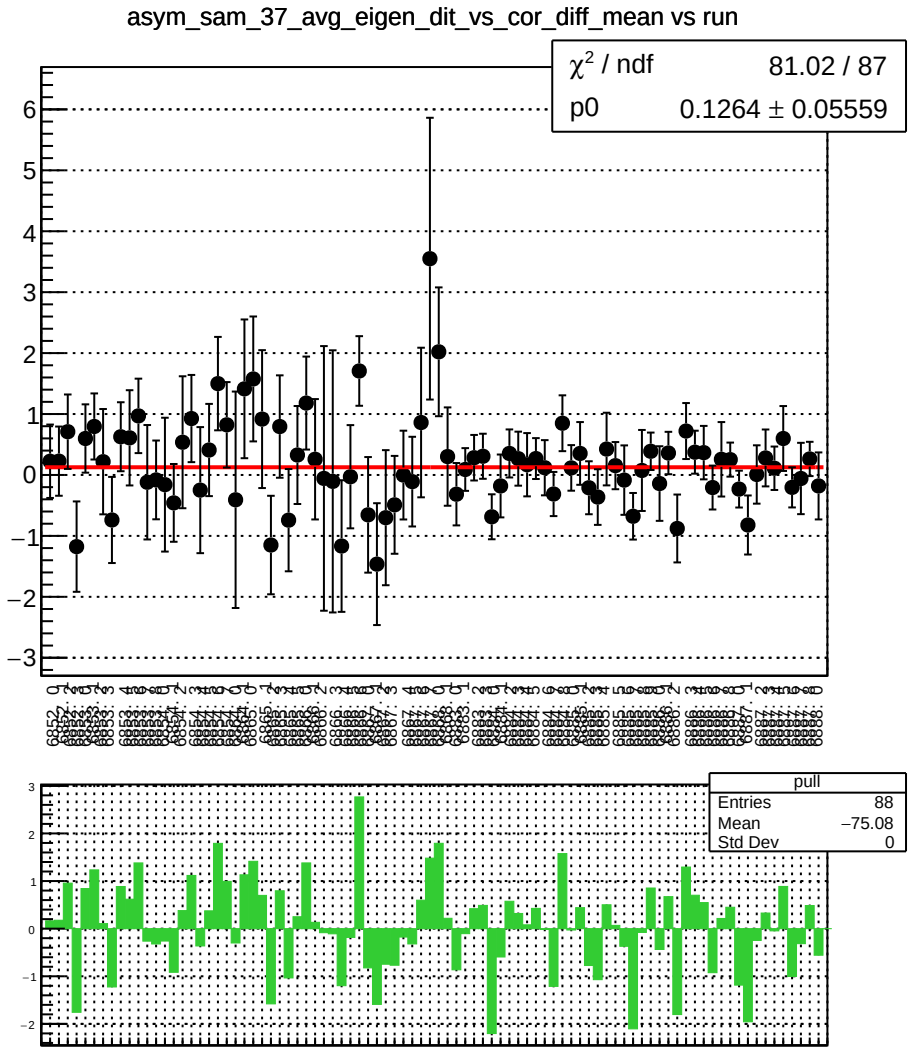

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.02 / 87
p0 0.1264 ± 0.05559
pull
Entries 88
Mean −75.07
Std Dev 0

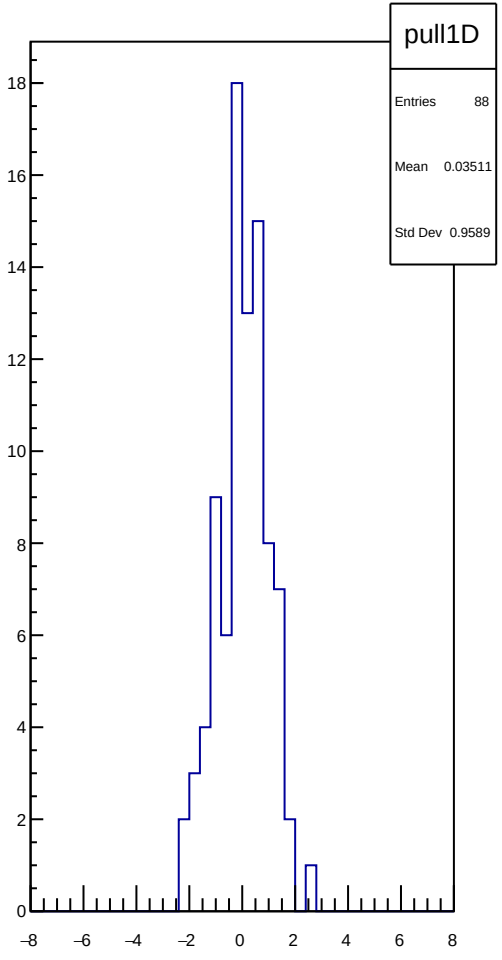

pull1D
Entries 88
Mean 0.03511
Std Dev 0.9589

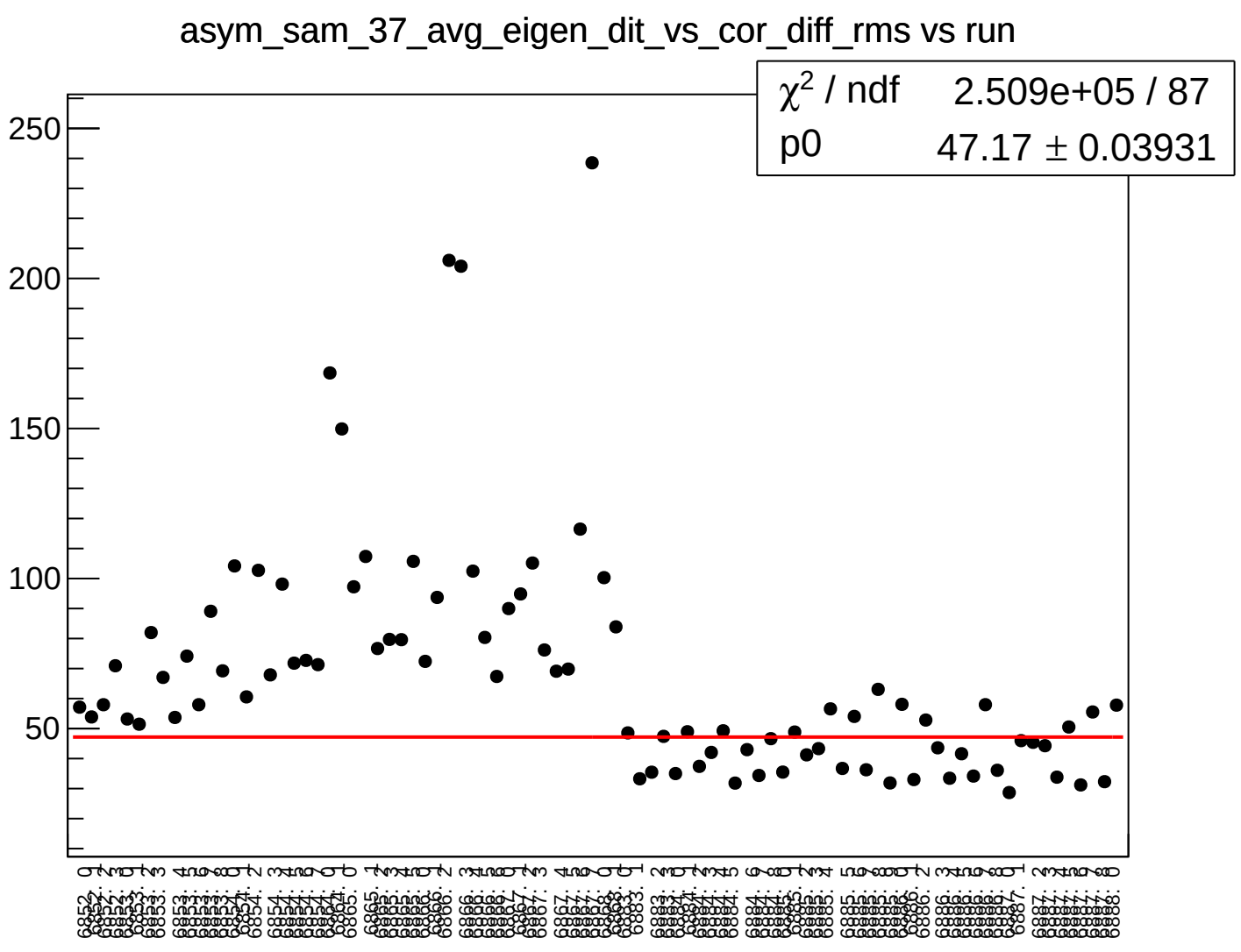

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.509e+05 / 87
p0 47.17 ± 0.03931
250
200
150
100
50

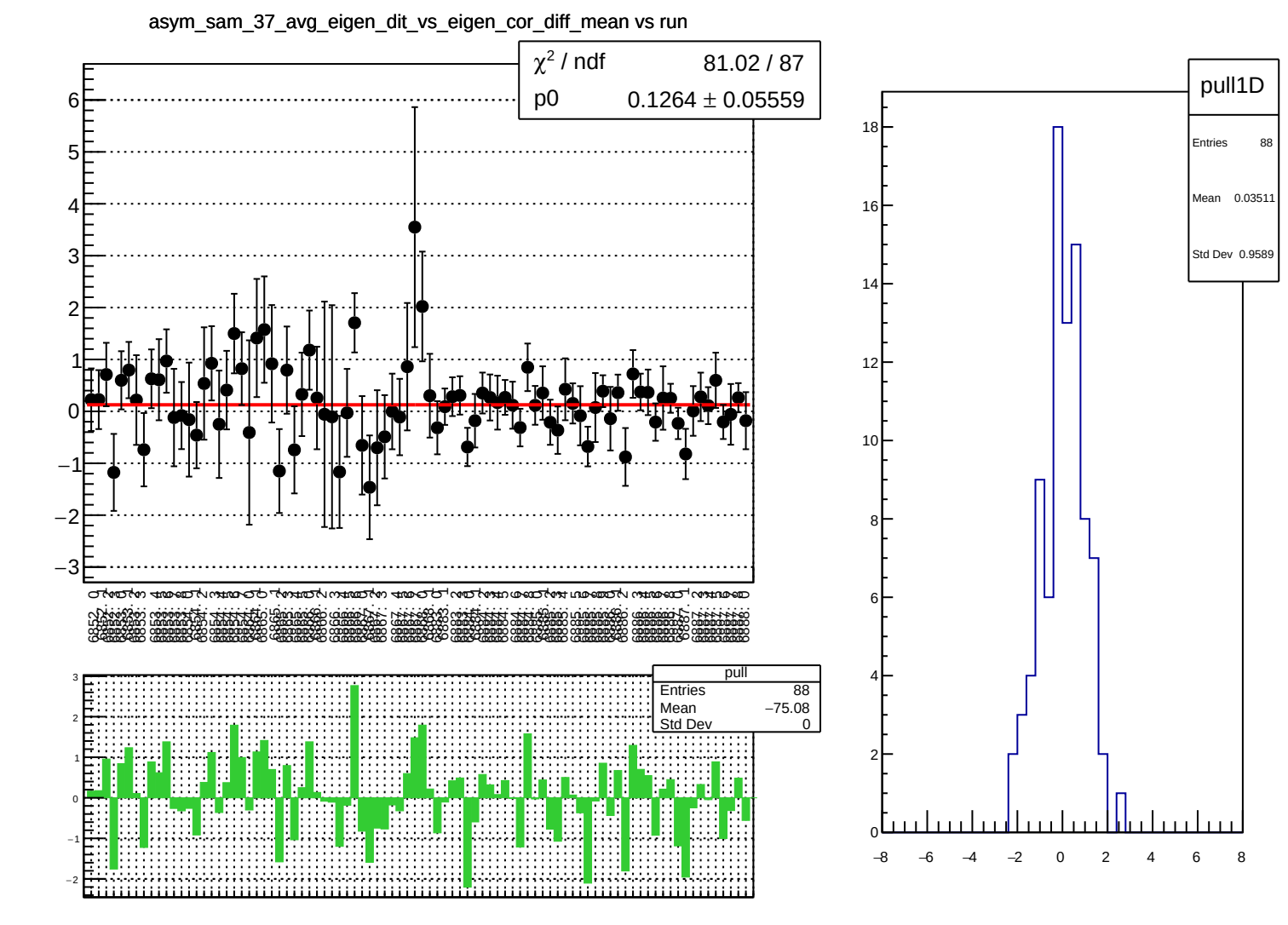

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.62 / 87
p0 3.334e−06 ± 2.524e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −54
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.01532
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

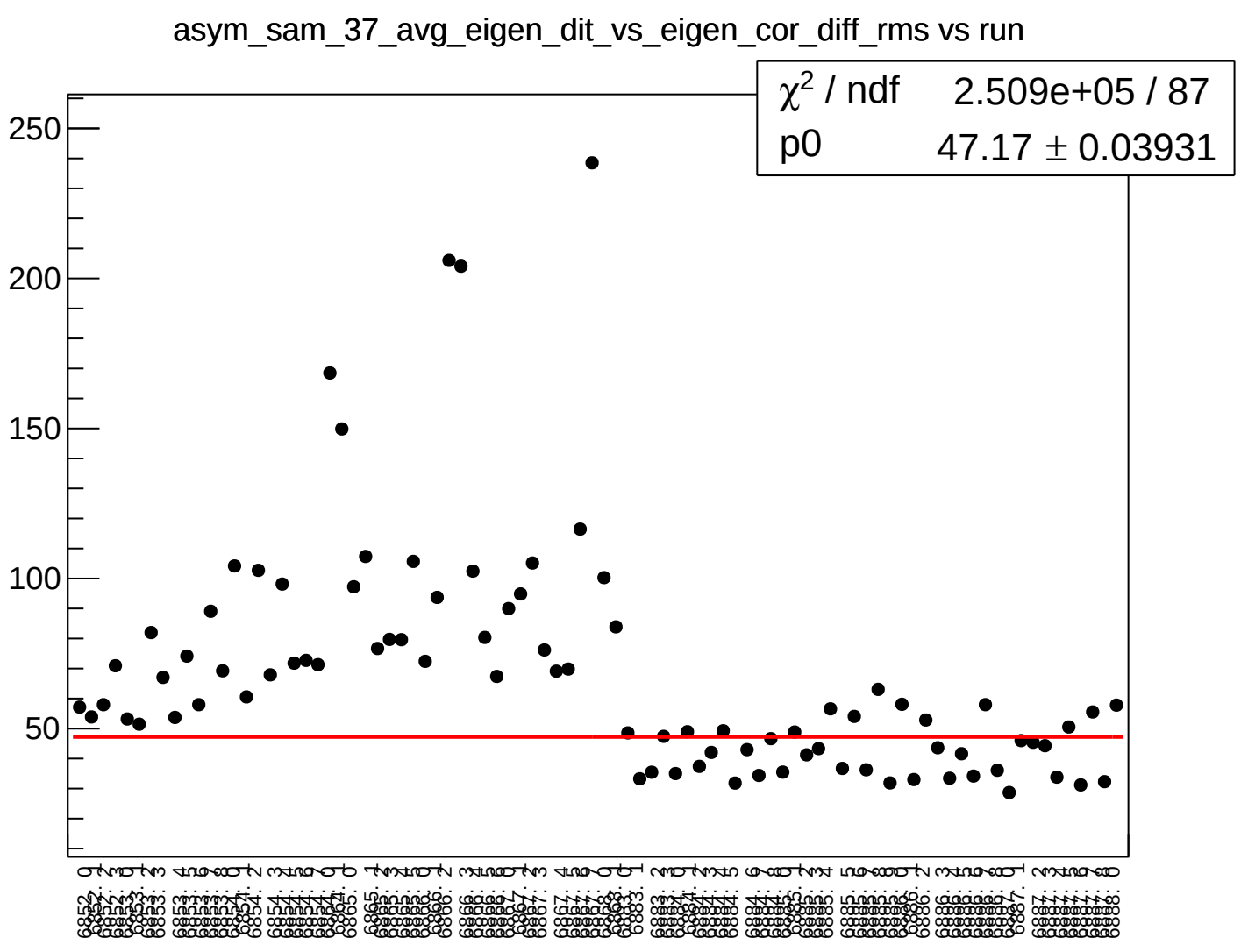

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.357e+05 / 87
p0 0.002225 ± 1.785e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

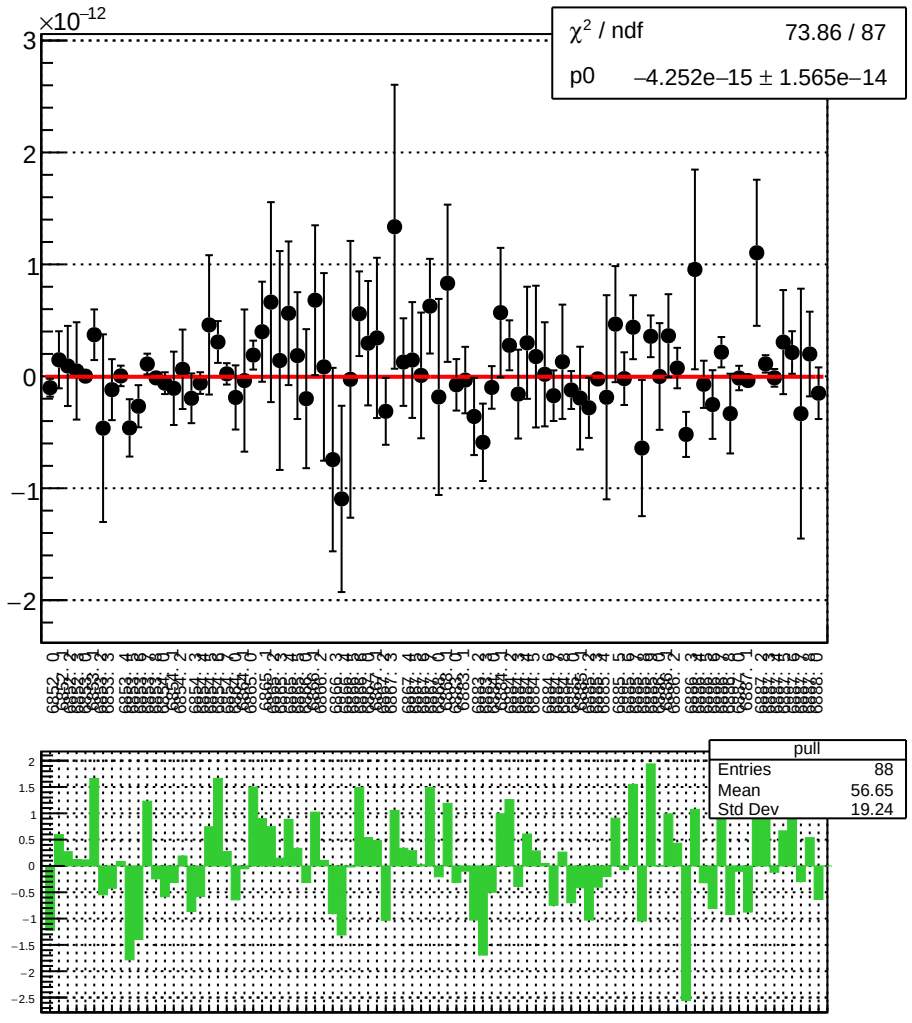

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.02 / 87
p0 0.1264 ± 0.05559
pull
Entries 88
Mean −75.08
Std Dev 0

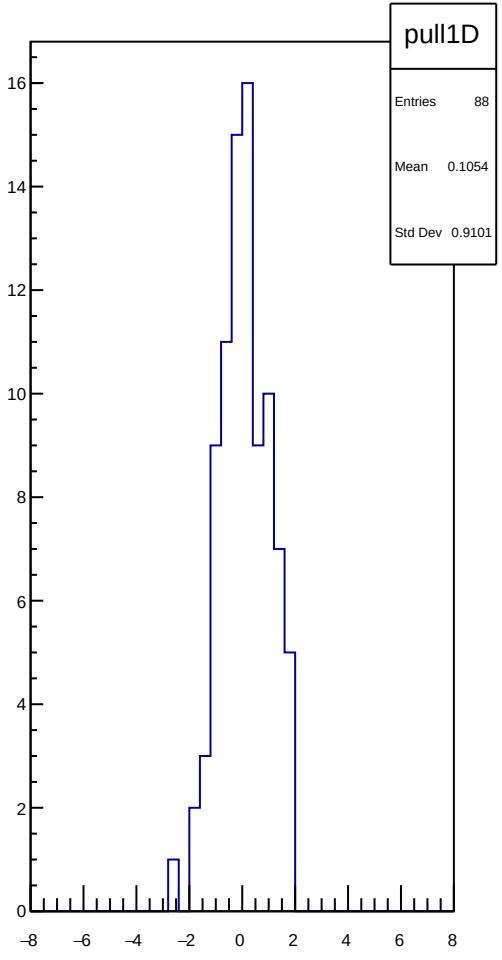

pull1D
Entries 88
Mean 0.03511
Std Dev 0.9589

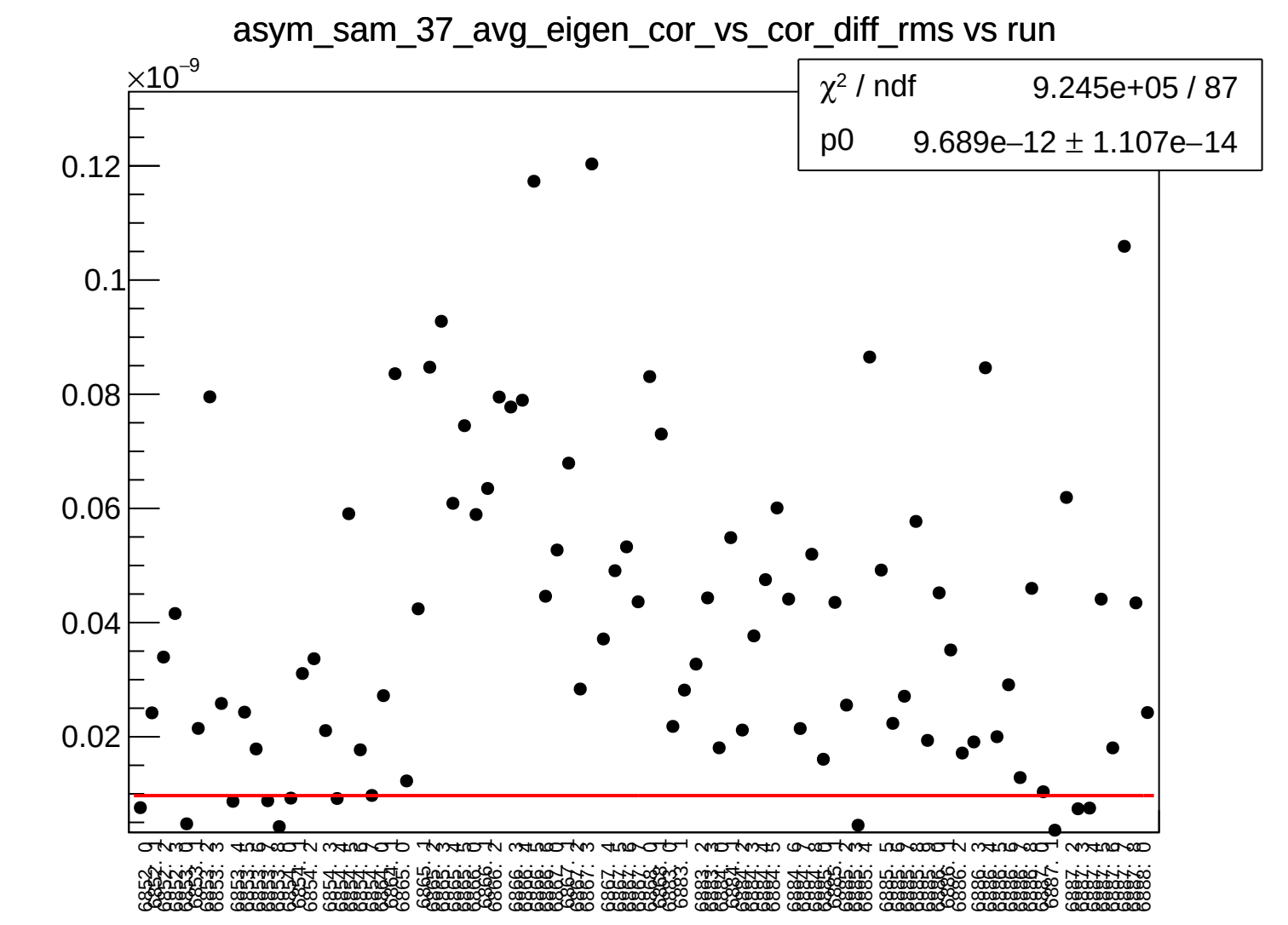

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.509e+05 / 87
p0 47.17 ± 0.03931
250
200
150
100
50

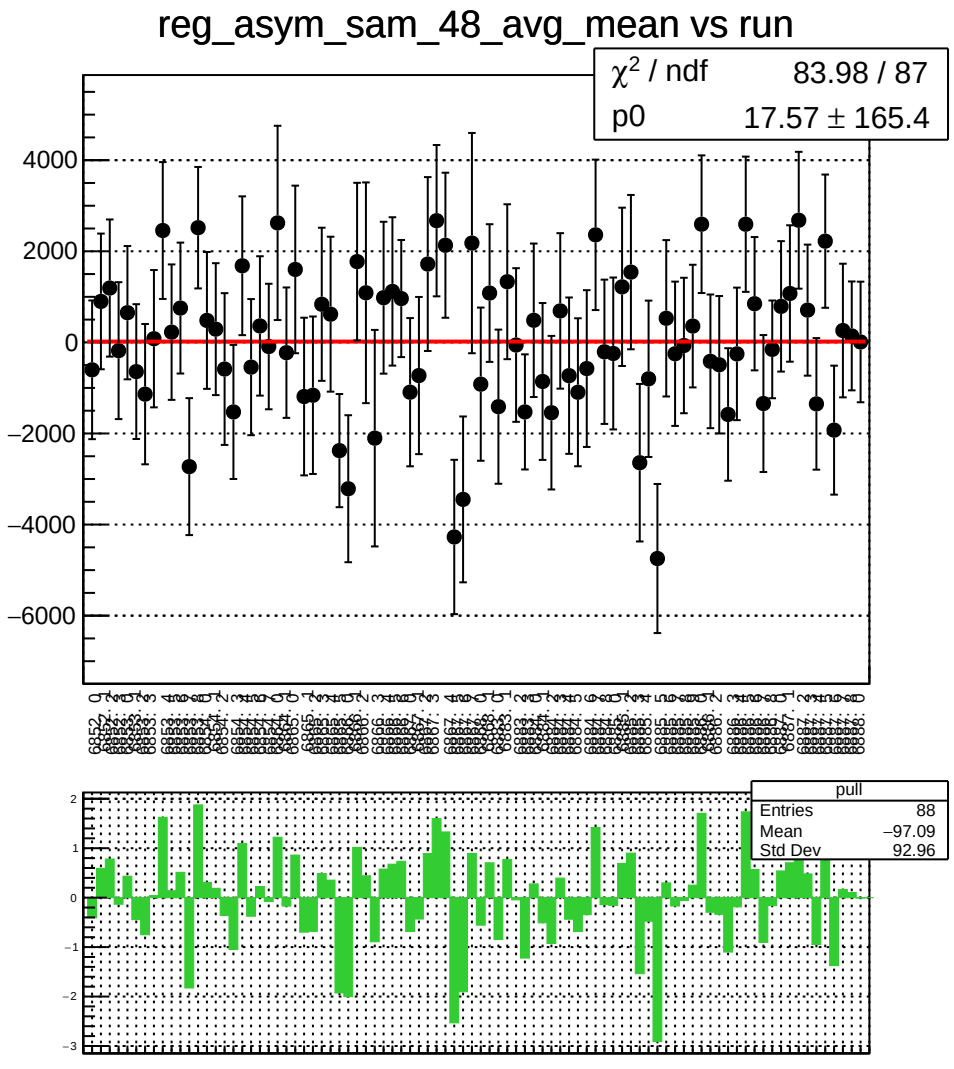

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.02 / 87
p0 0.1264 ± 0.05559
pull
Entries 88
Mean −75.08
Std Dev 0
pull1D
Entries 88
Mean 0.03511
Std Dev 0.9589

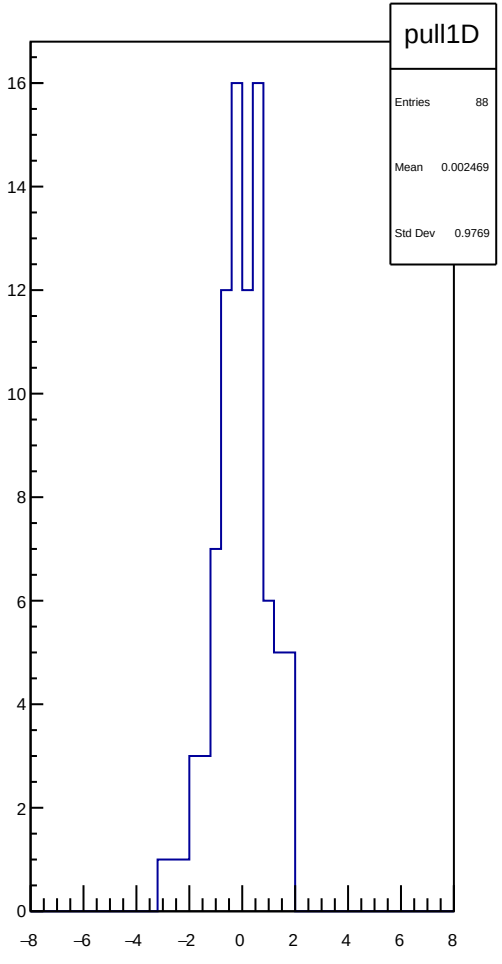

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.509e+05 / 87
p0 47.17 ± 0.03931
250
200
150
100
50

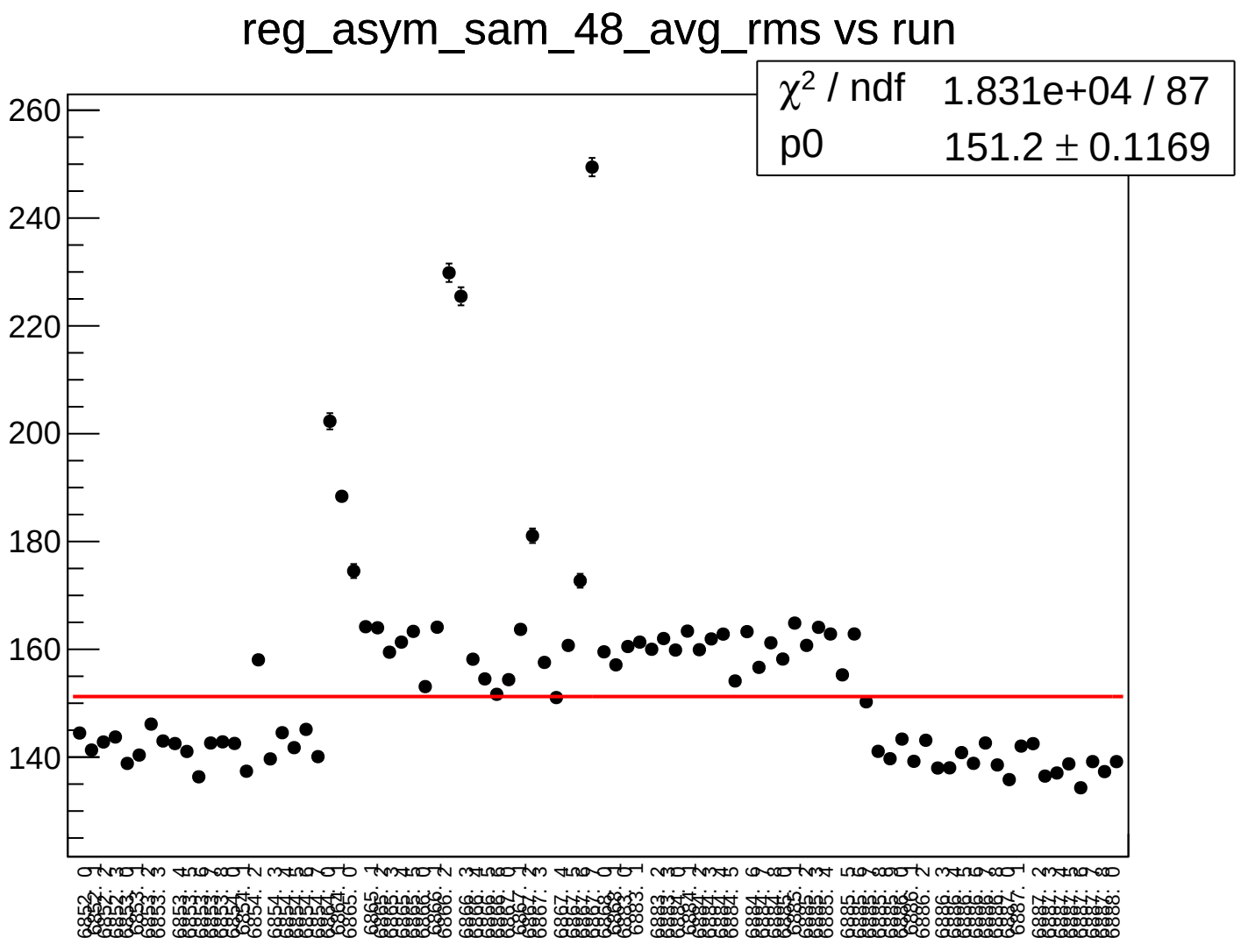

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.86 / 87
p0 −4.252e−15 ± 1.565e−14
pull
Entries 88
Mean 56.65
Std Dev 19.24

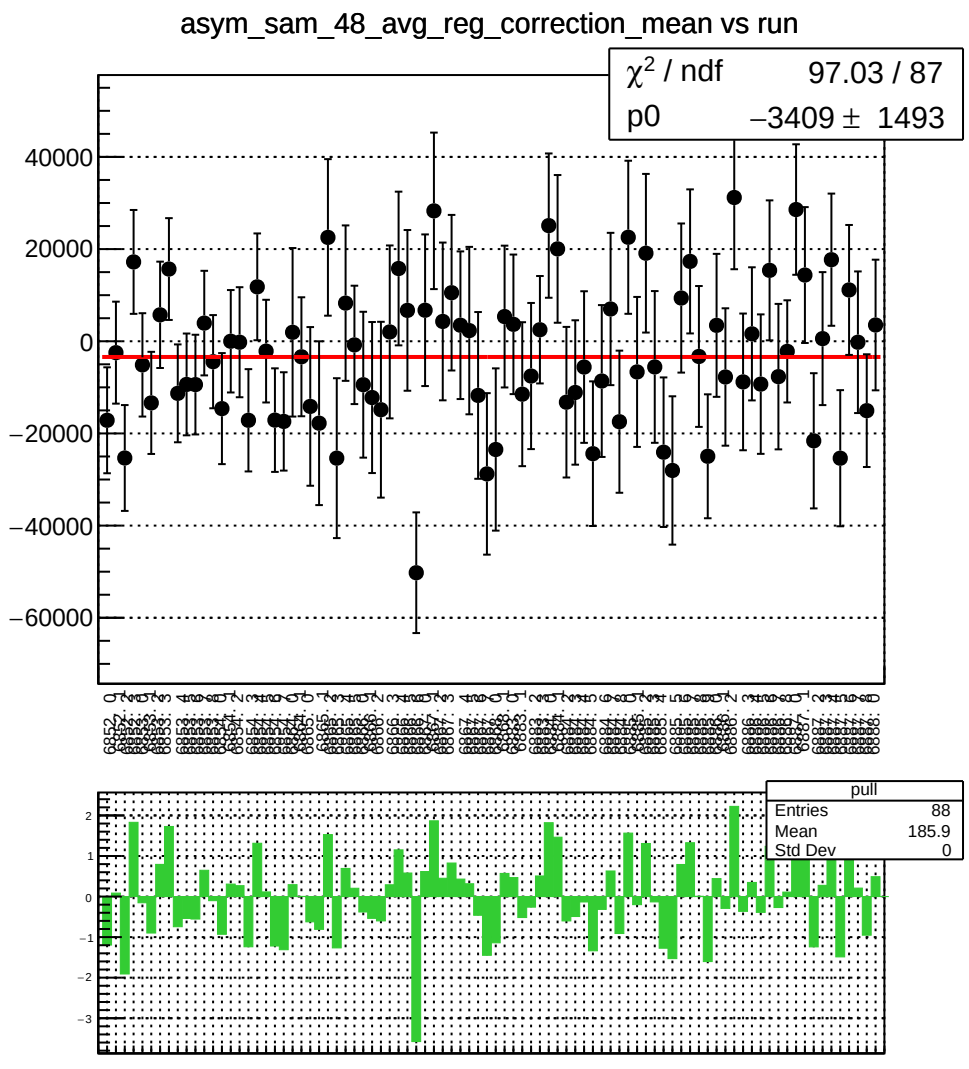

pull1D
Entries 88
Mean 0.1054
Std Dev 0.9101

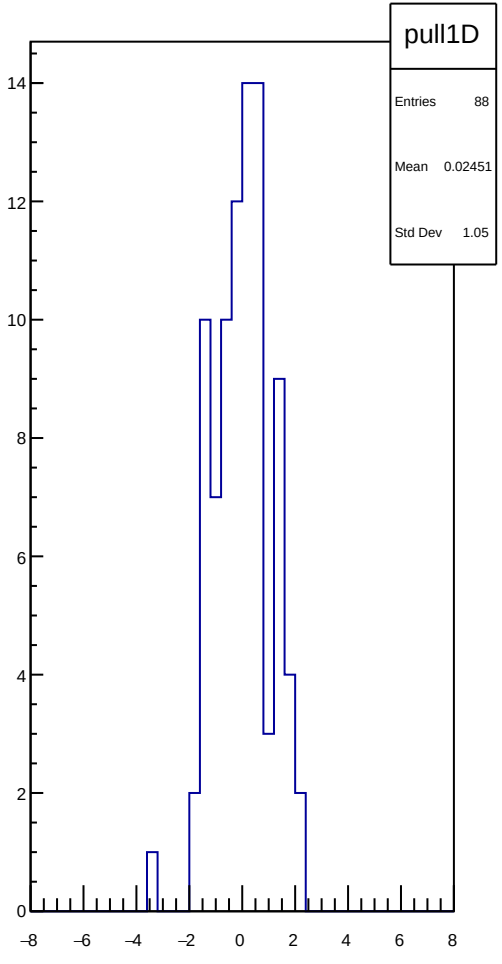

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.245e+05 / 87
p0 9.689e−12 ± 1.107e−14
0.12
0.1
0.08
0.06
0.04
0.02

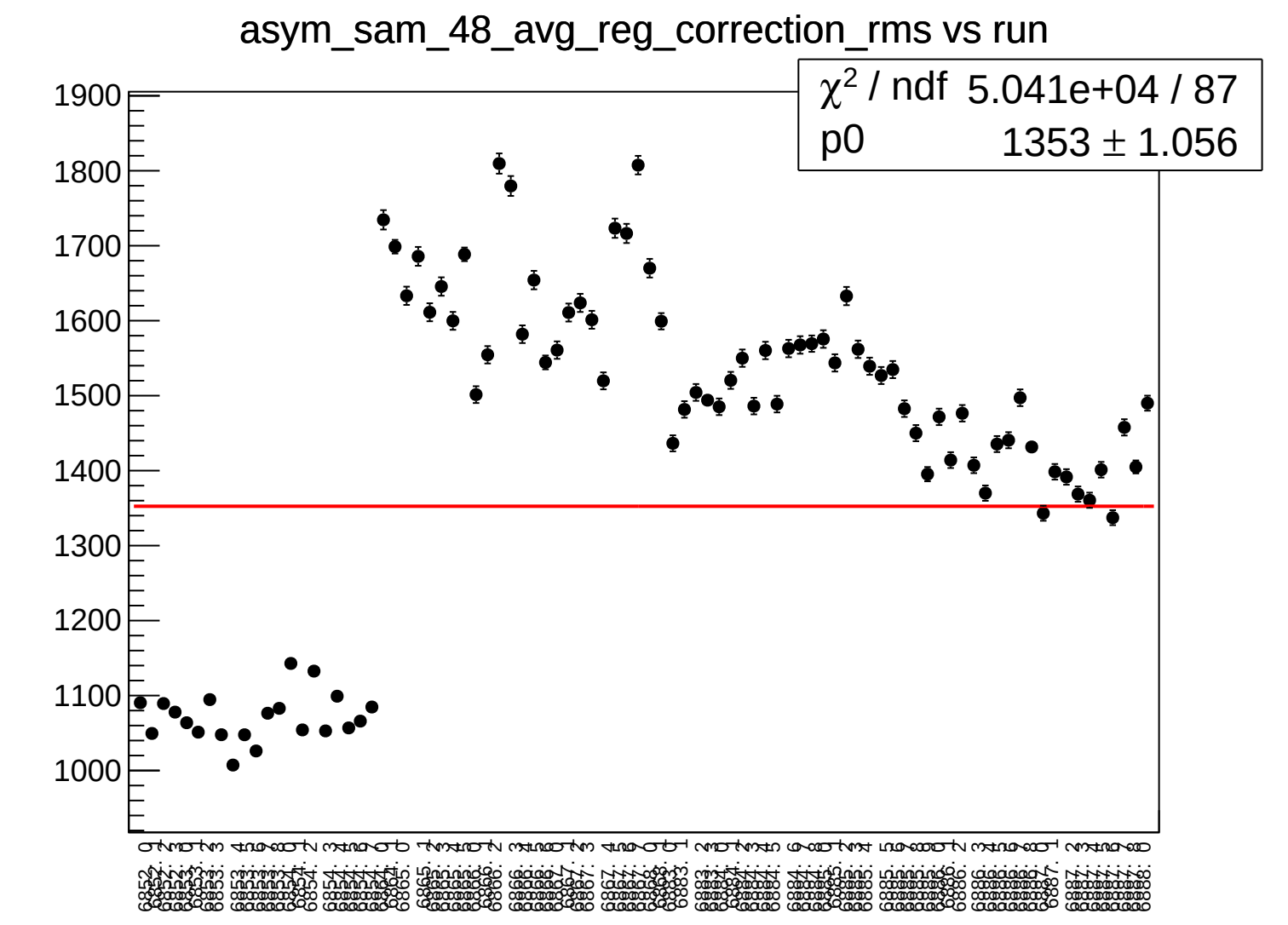

reg_asym_sam_48_avg_mean vs run
χ² / ndf 83.98 / 87
p0 17.57 ± 165.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −97.09
Std Dev 92.96
2
1
0
−1
−2
−3

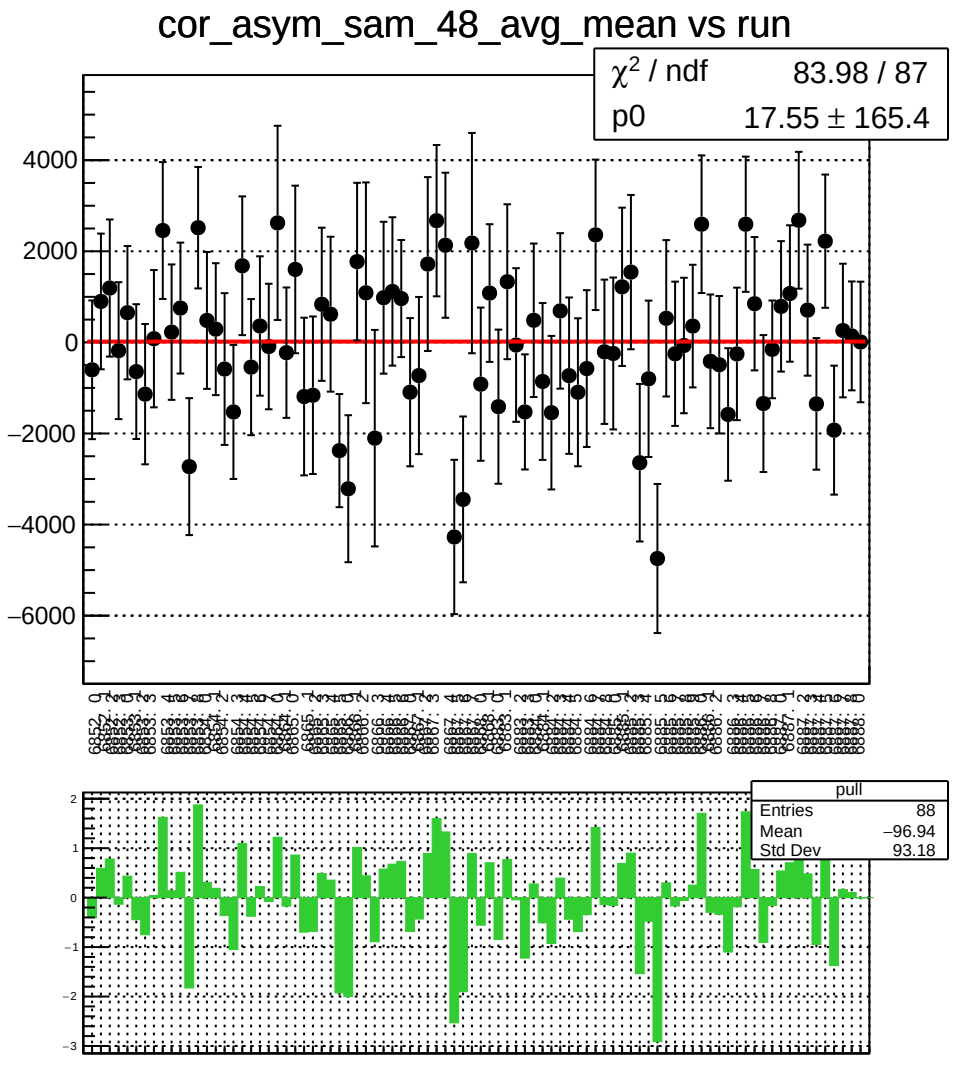

pull1D
Entries 88
Mean 0.002469
Std Dev 0.9769
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

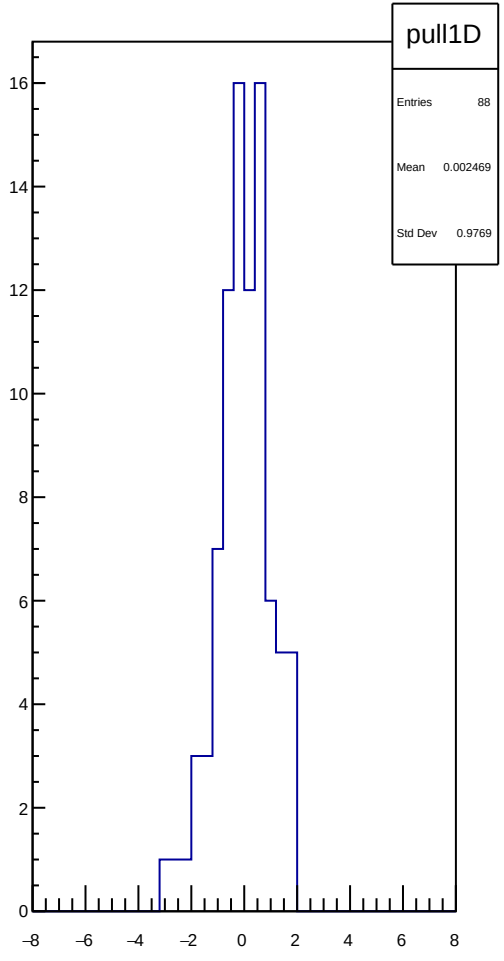

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.831e+04 / 87
p0 151.2 ± 0.1169
260
240
220
200
180
160
140

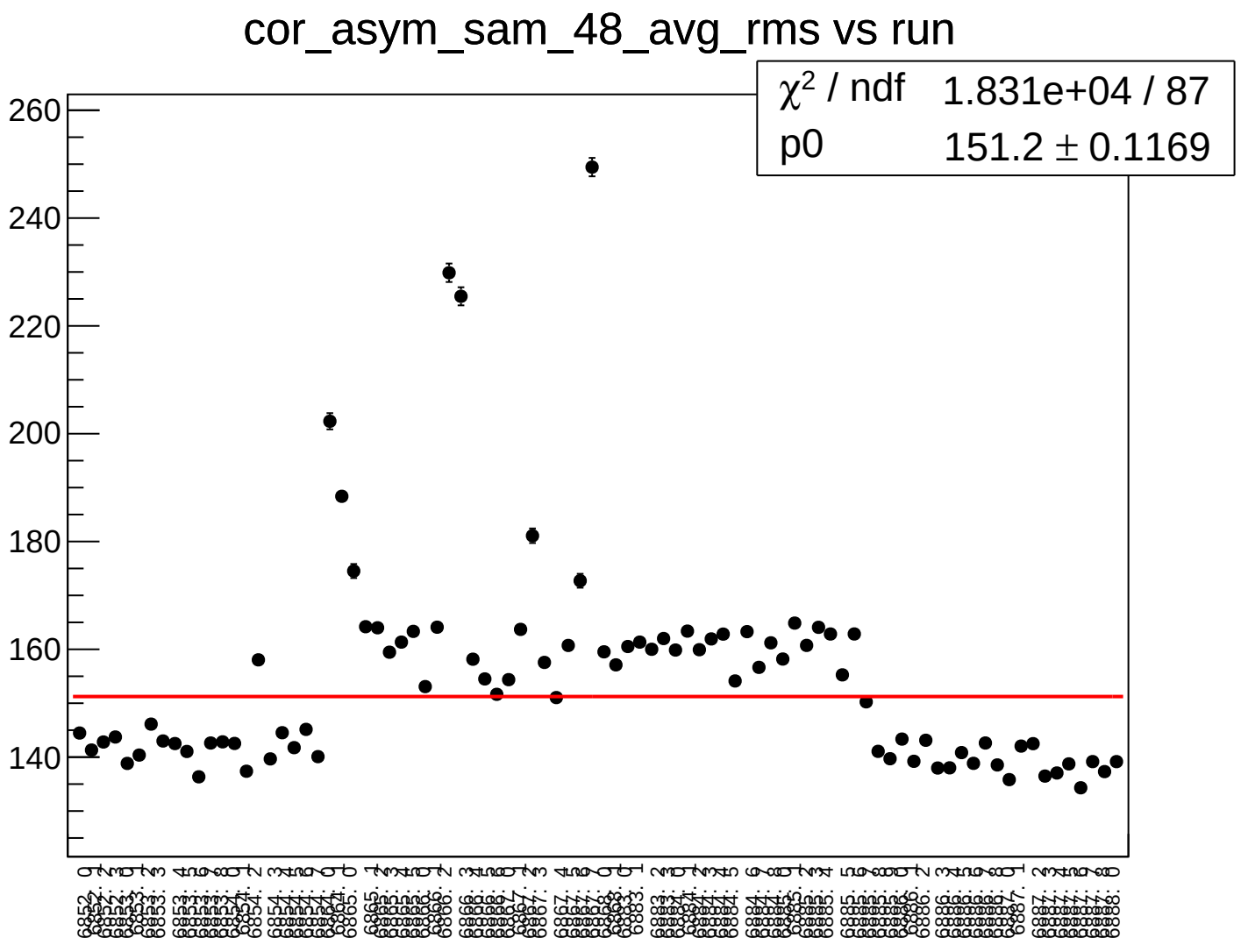

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 97.03 / 87
p0 −3409 ± 1493
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 185.9
Std Dev 0
2
1
0
−1
−2
−3

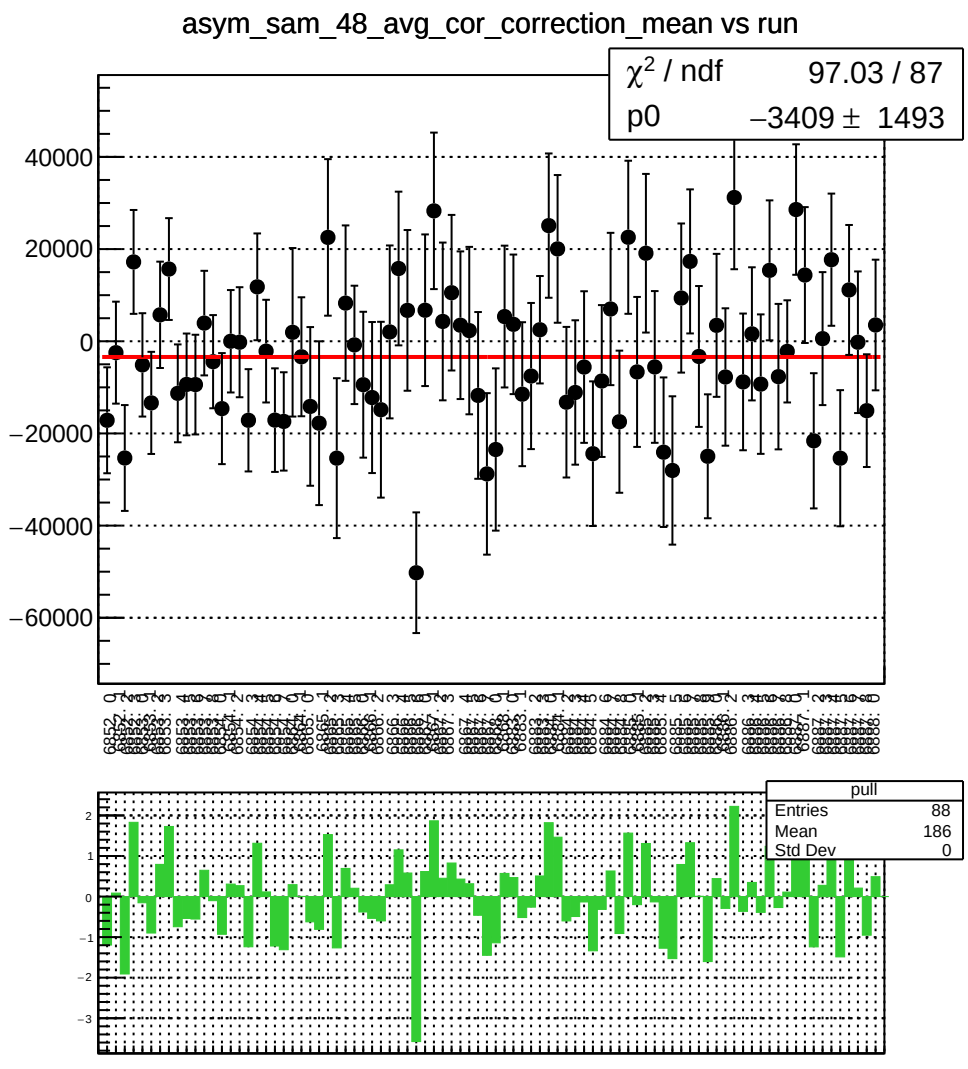

pull1D
Entries 88
Mean 0.02451
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

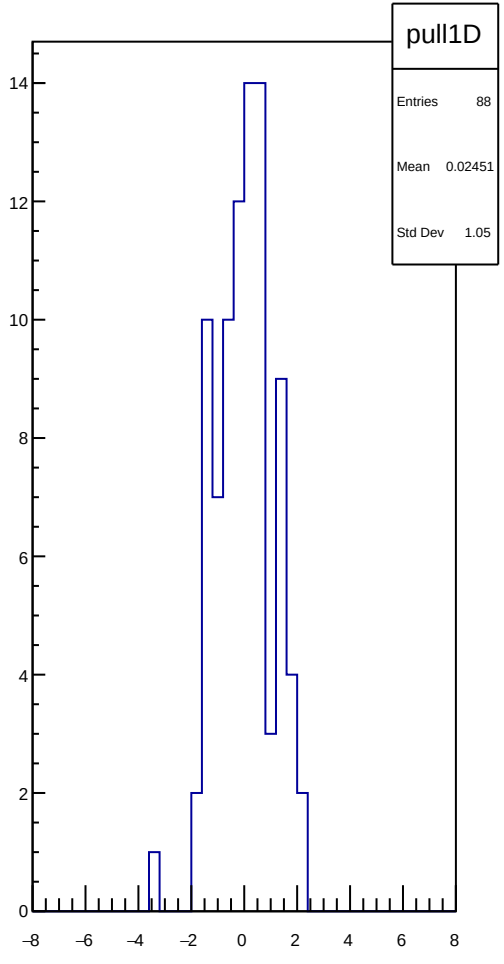

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 5.041e+04 / 87
p0 1353 ± 1.056
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000

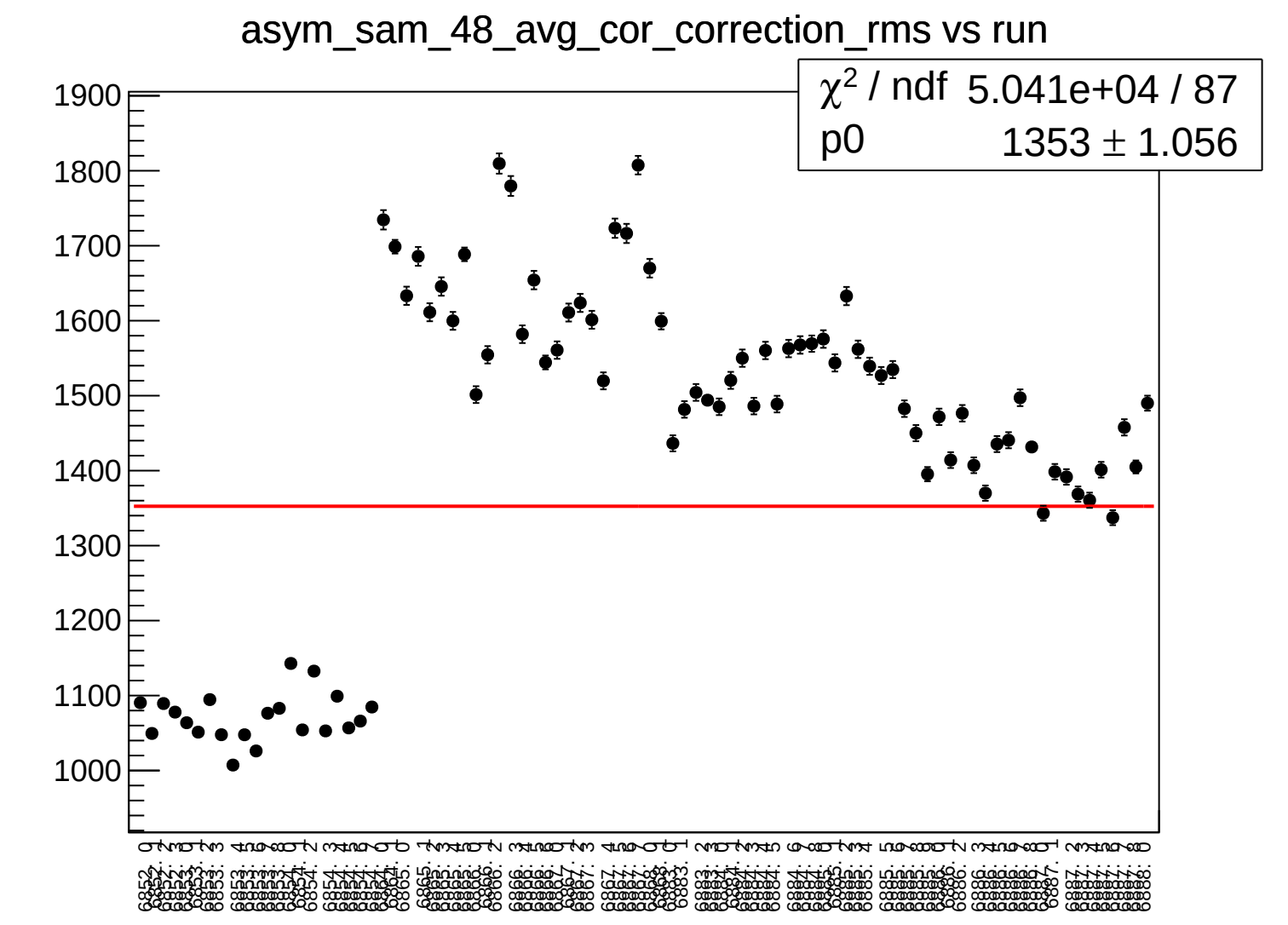

cor_asym_sam_48_avg_mean vs run
χ² / ndf 83.98 / 87
p0 17.55 ± 165.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −96.94
Std Dev 93.18
2
1
0
−1
−2
−3

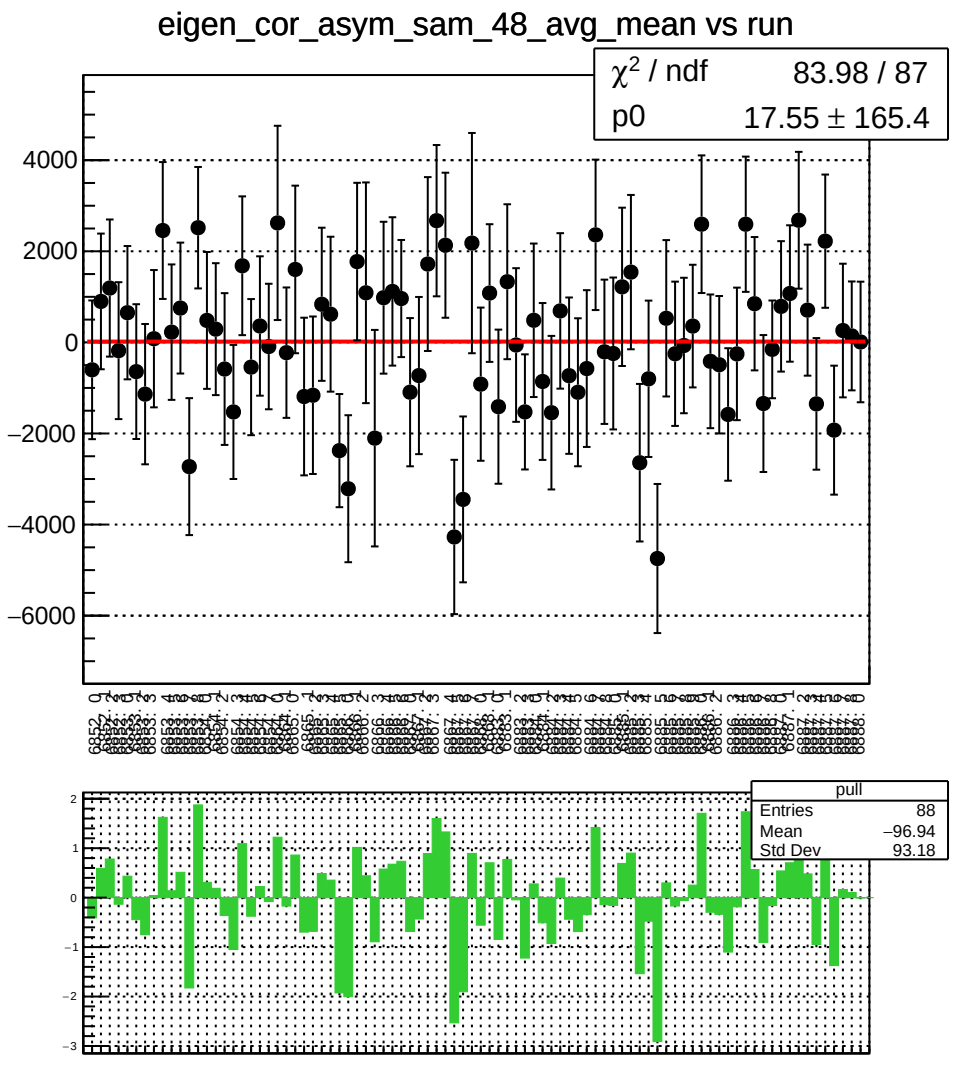

pull1D
Entries 88
Mean 0.002469
Std Dev 0.9769
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

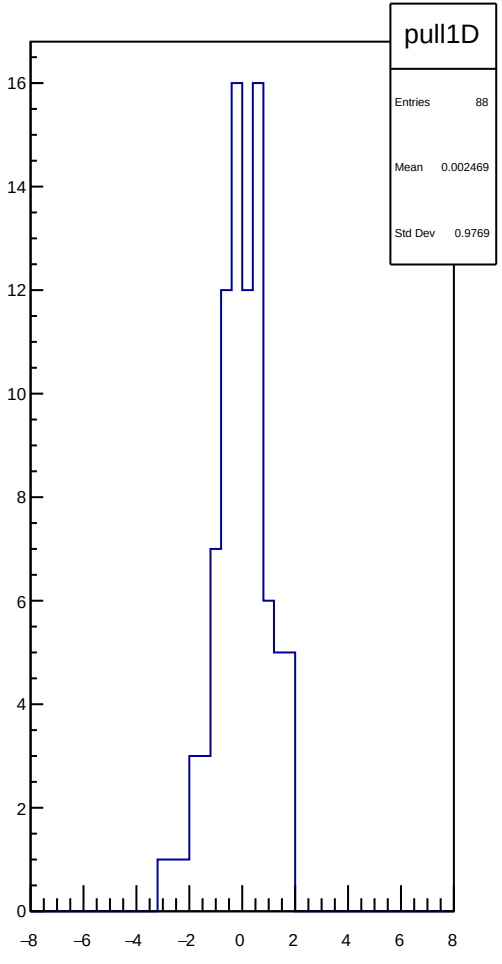

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.831e+04 / 87
p0 151.2 ± 0.1169
260
240
220
200
180
160
140

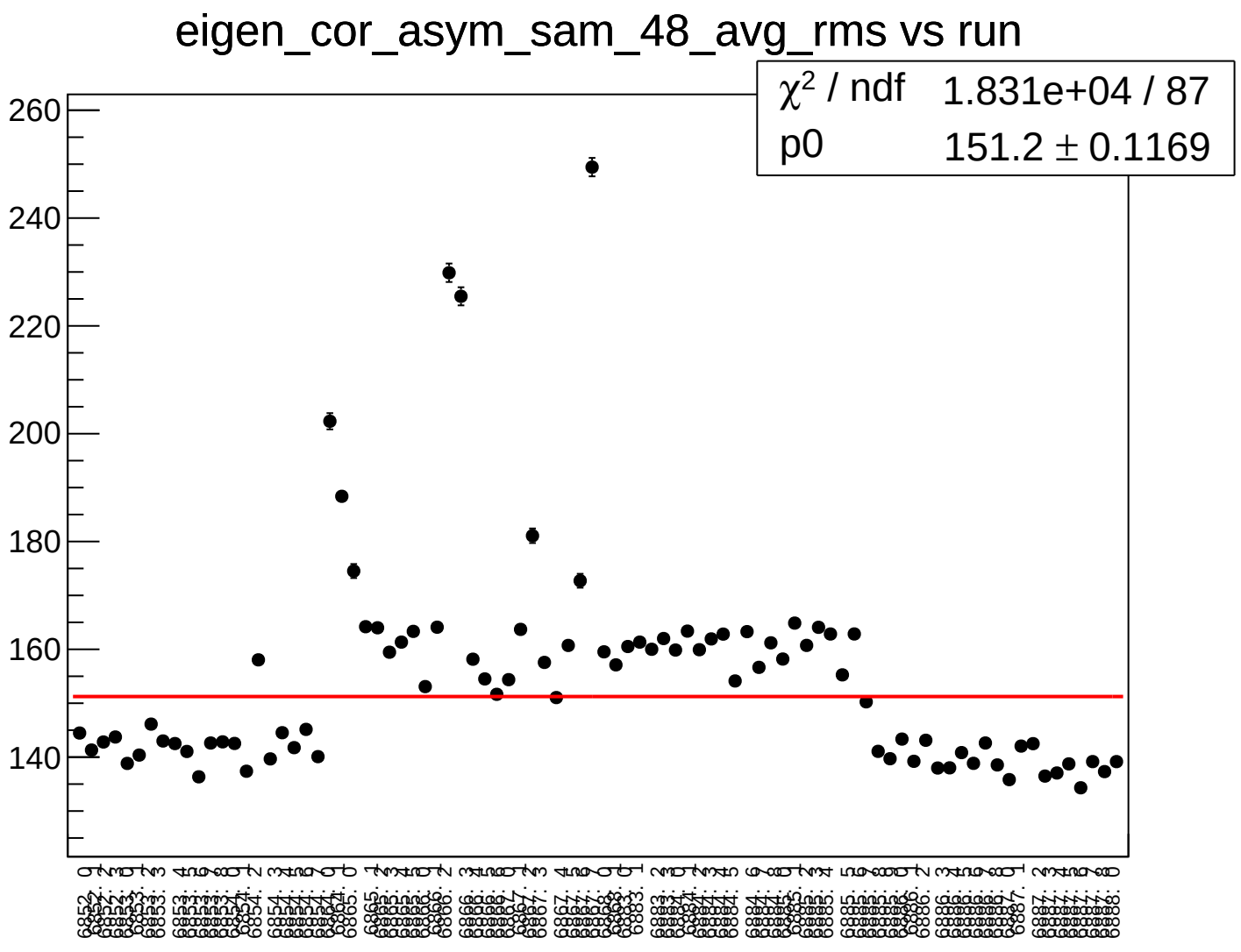

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 97.03 / 87
p0 −3409 ± 1493
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 186
Std Dev 0
2
1
0
−1
−2
−3

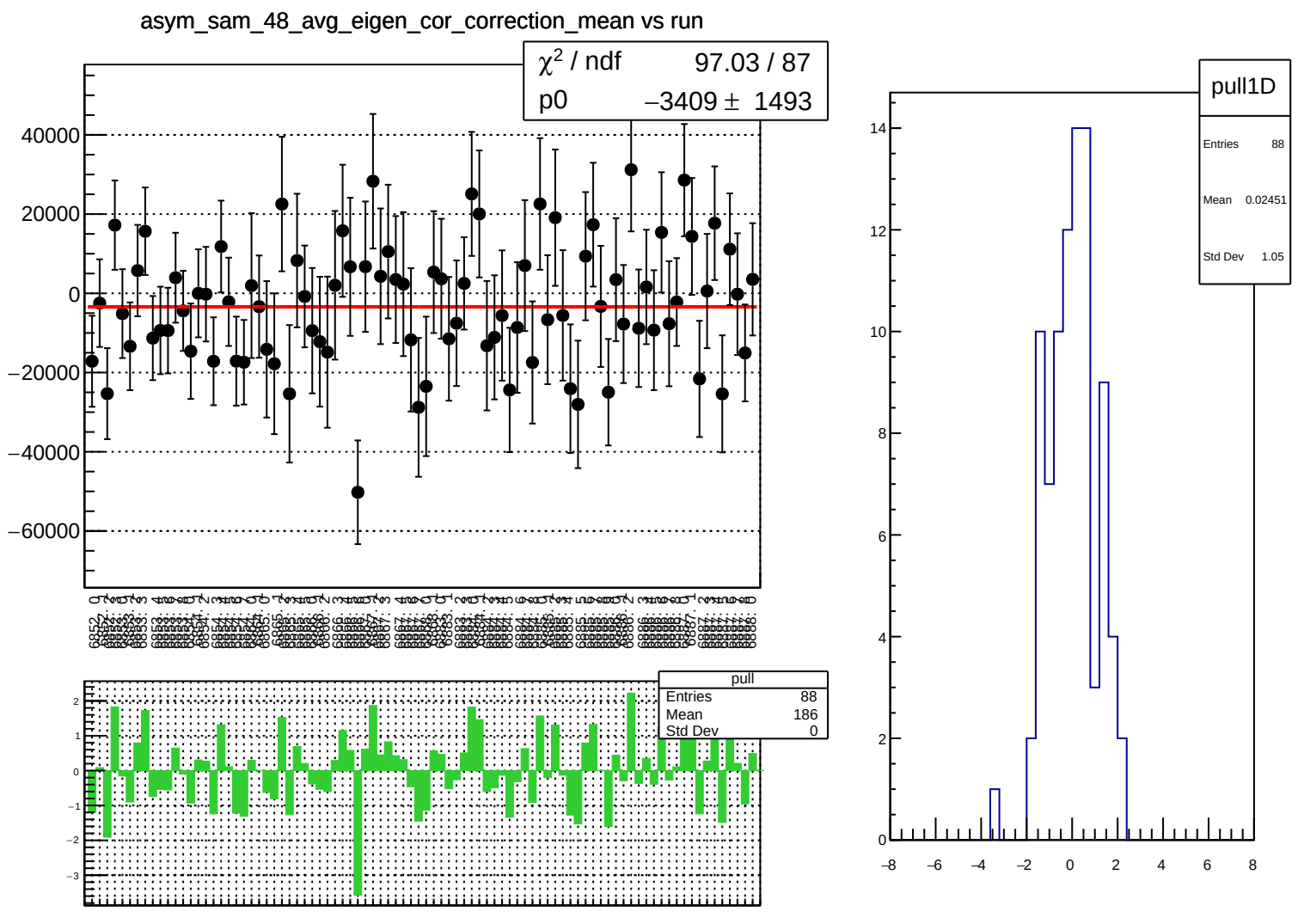

pull1D
Entries 88
Mean 0.02451
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

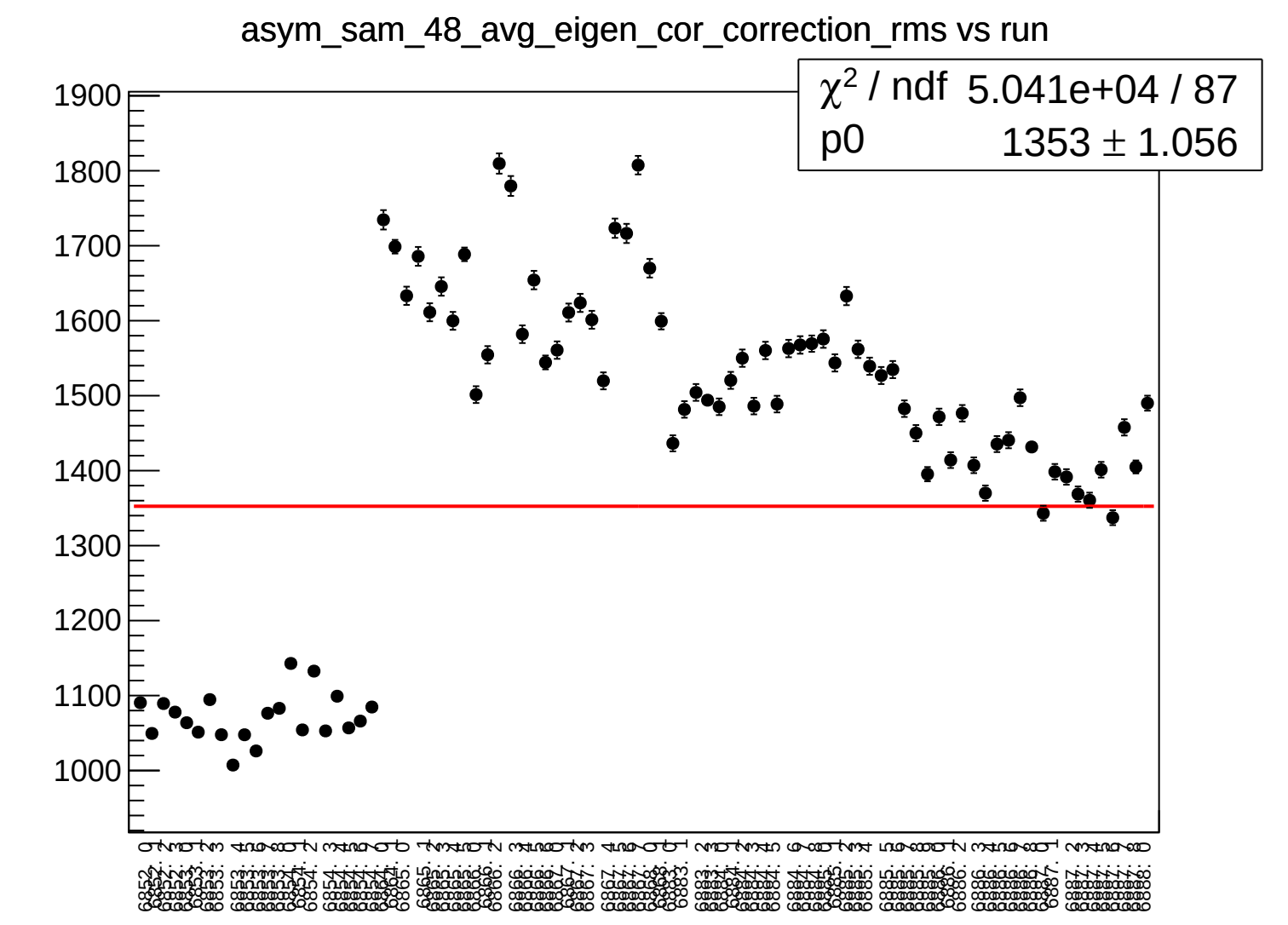

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 5.041e+04 / 87
p0 1353 ± 1.056
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000

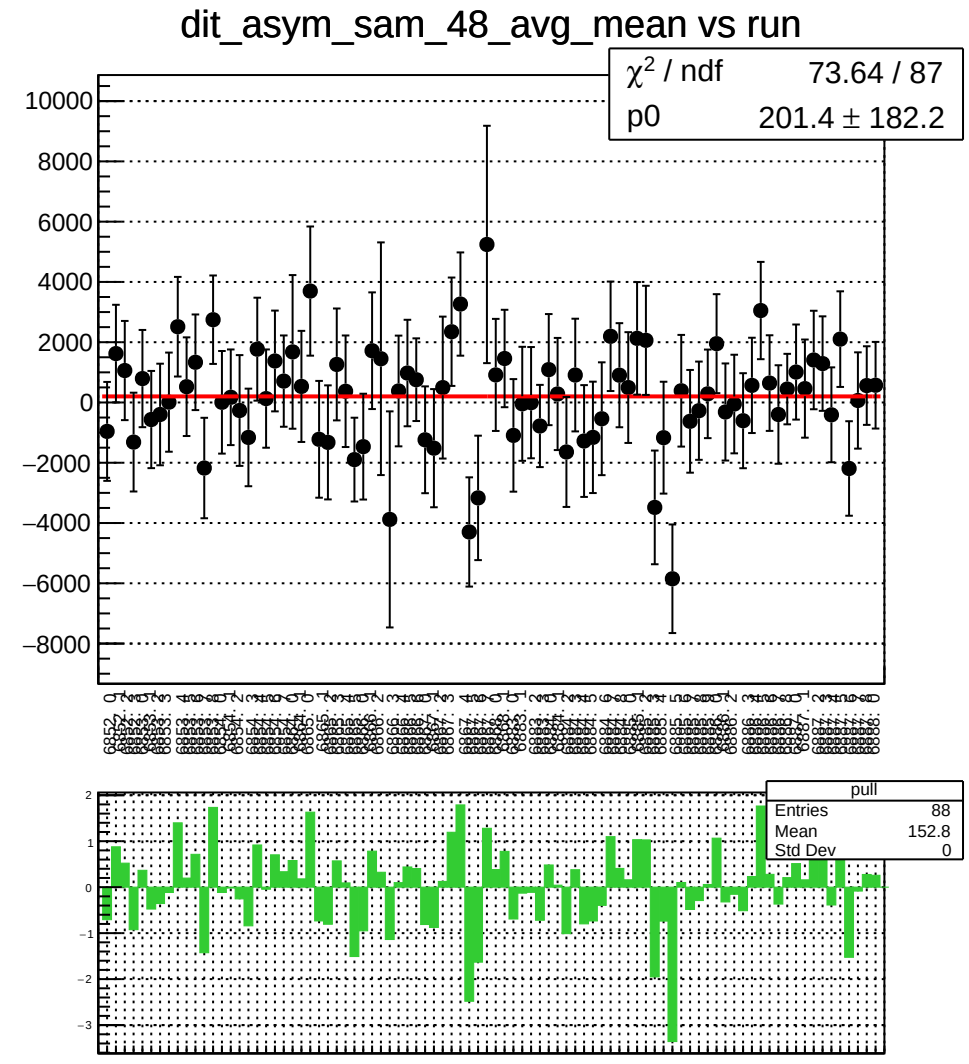

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 83.98 / 87
p0 17.55 ± 165.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −96.94
Std Dev 93.18
2
1
0
−1
−2
−3

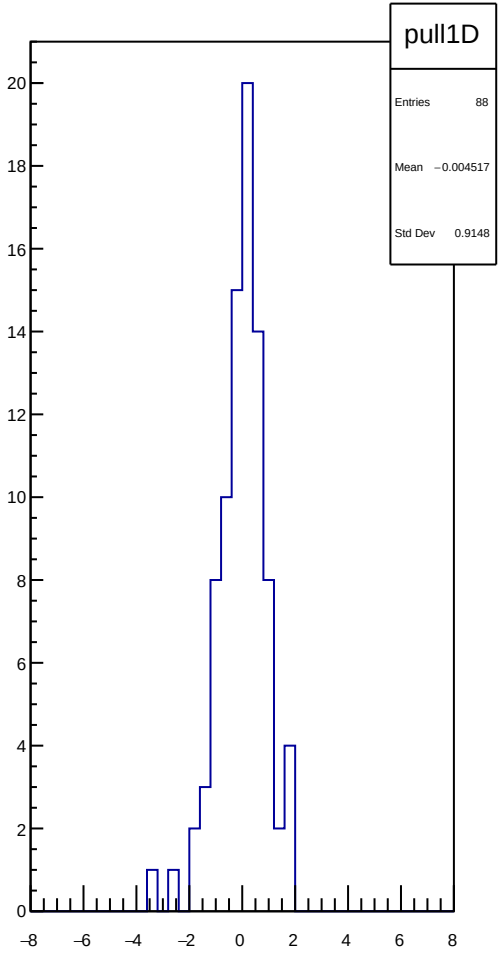

pull1D
Entries 88
Mean 0.002469
Std Dev 0.9769
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

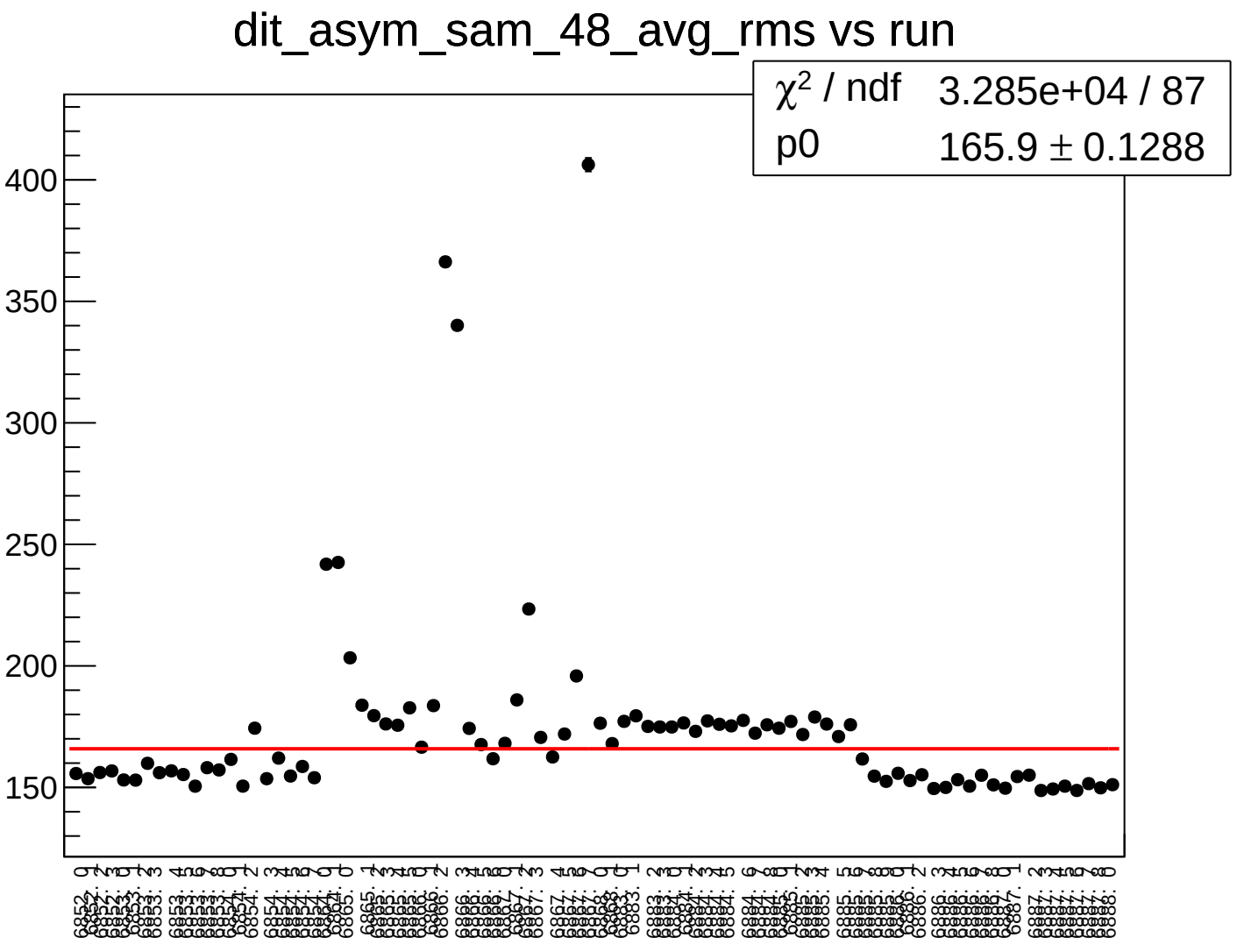

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.831e+04 / 87
p0 151.2 ± 0.1169
260
240
220
200
180
160
140

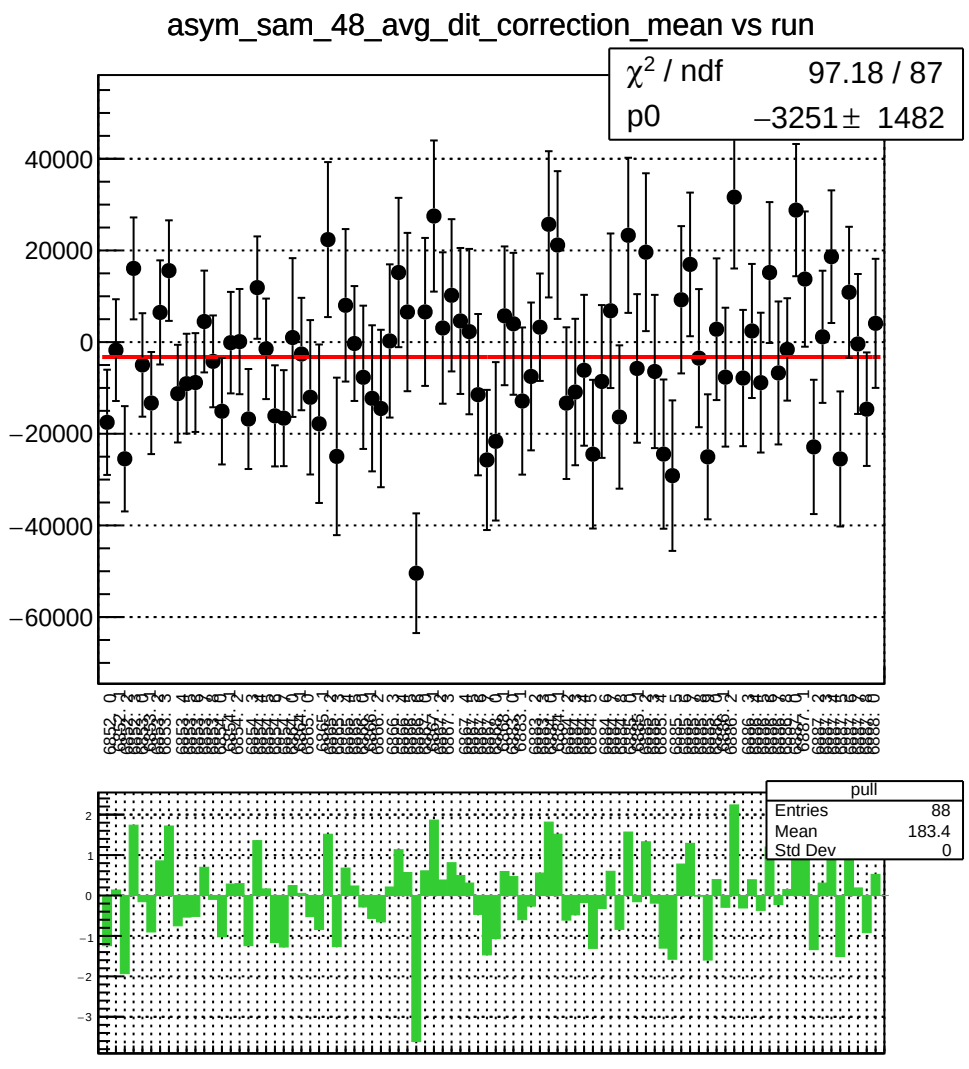

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.03 / 87
p0 −3409 ± 1493
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 186
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.02451
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

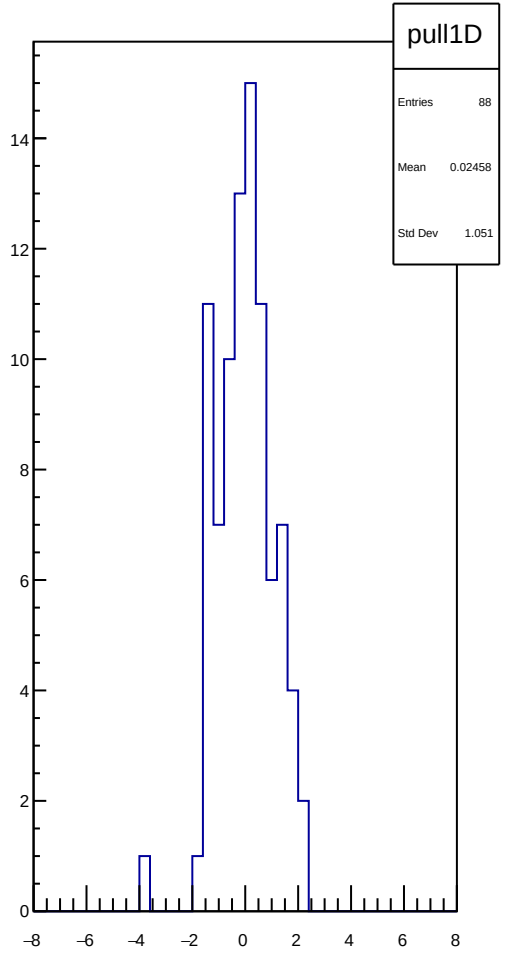

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.041e+04 / 87
p0 1353 ± 1.056
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000

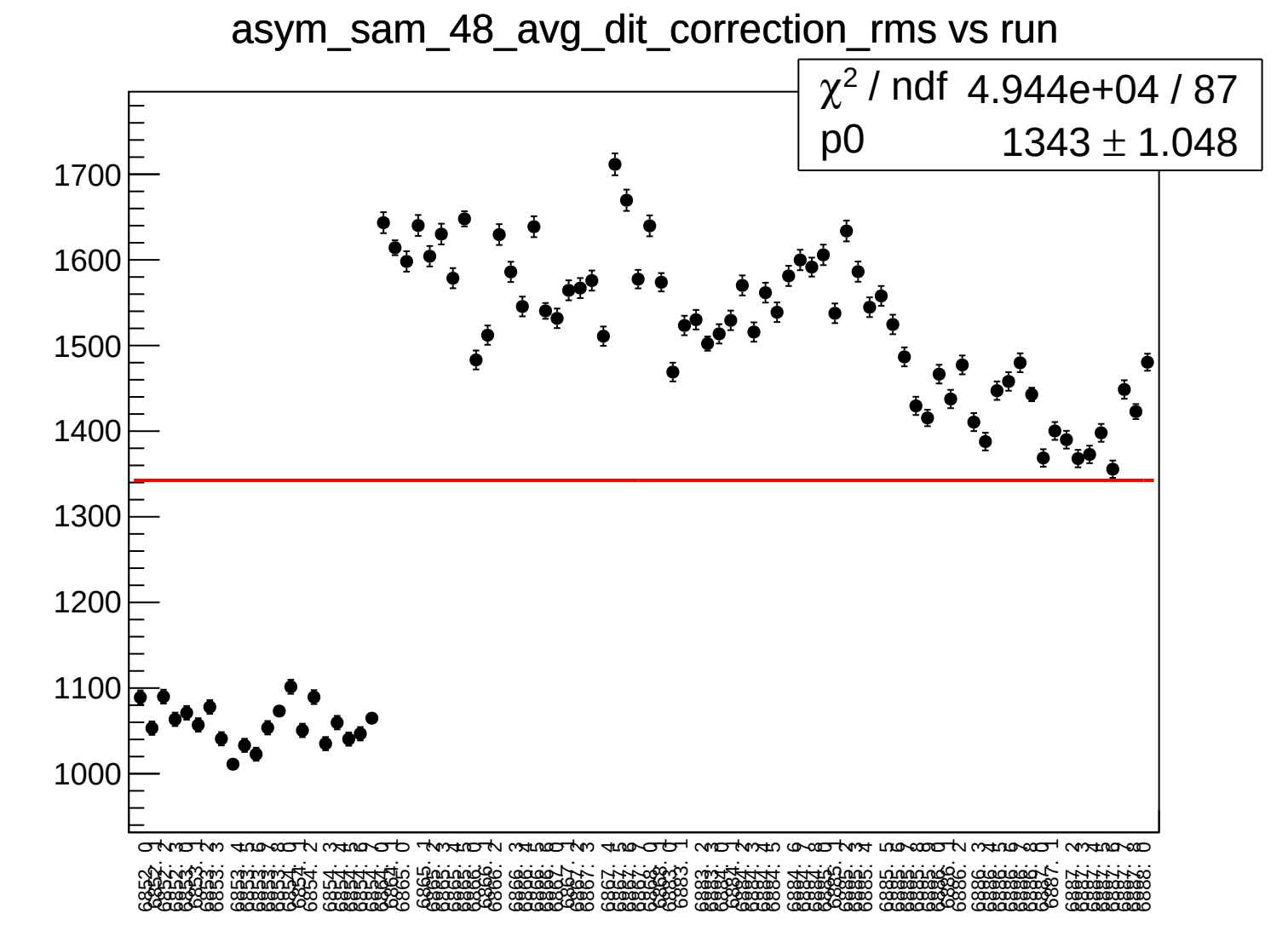

dit_asym_sam_48_avg_mean vs run
χ² / ndf 73.64 / 87
p0 201.4 ± 182.2
pull
Entries 88
Mean 152.8
Std Dev 0

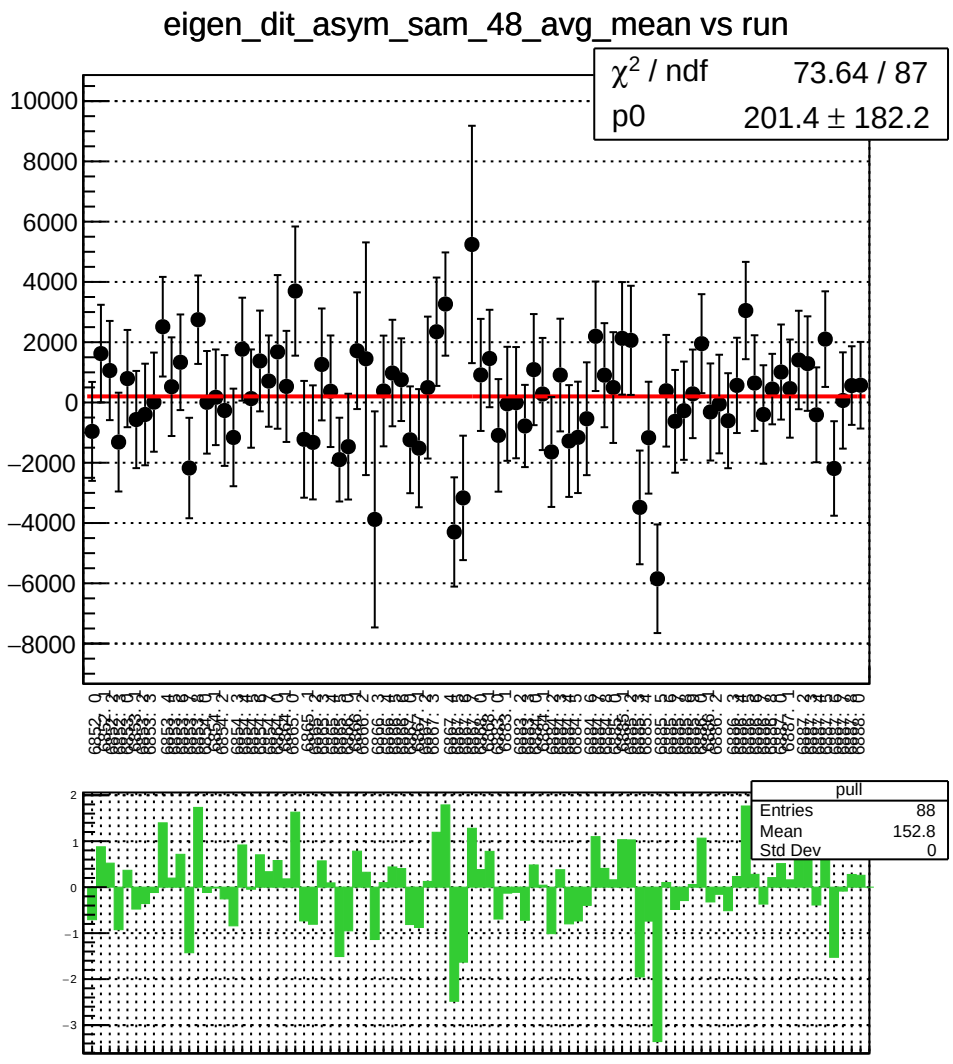

pull1D
Entries 88
Mean −0.004517
Std Dev 0.9148

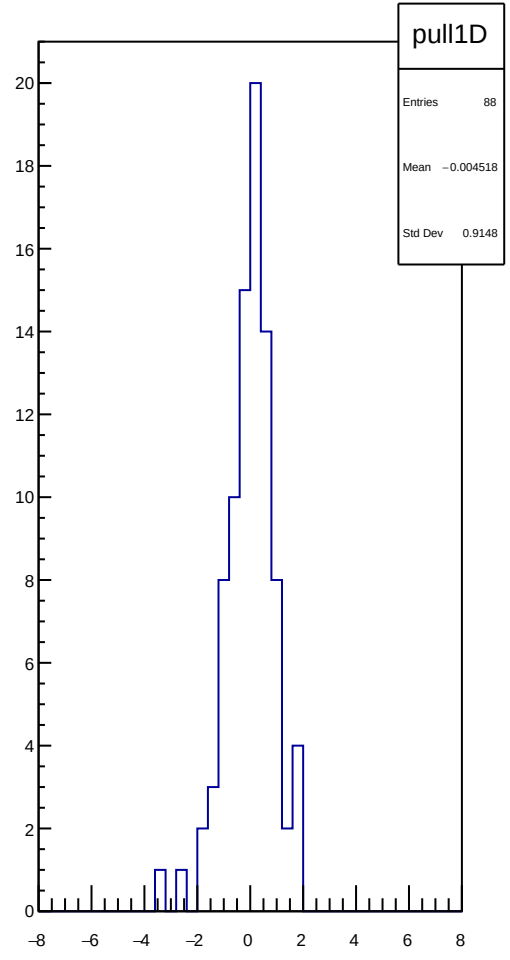

dit_asym_sam_48_avg_rms vs run
χ² / ndf 3.285e+04 / 87
p0 165.9 ± 0.1288
400
350
300
250
200
150

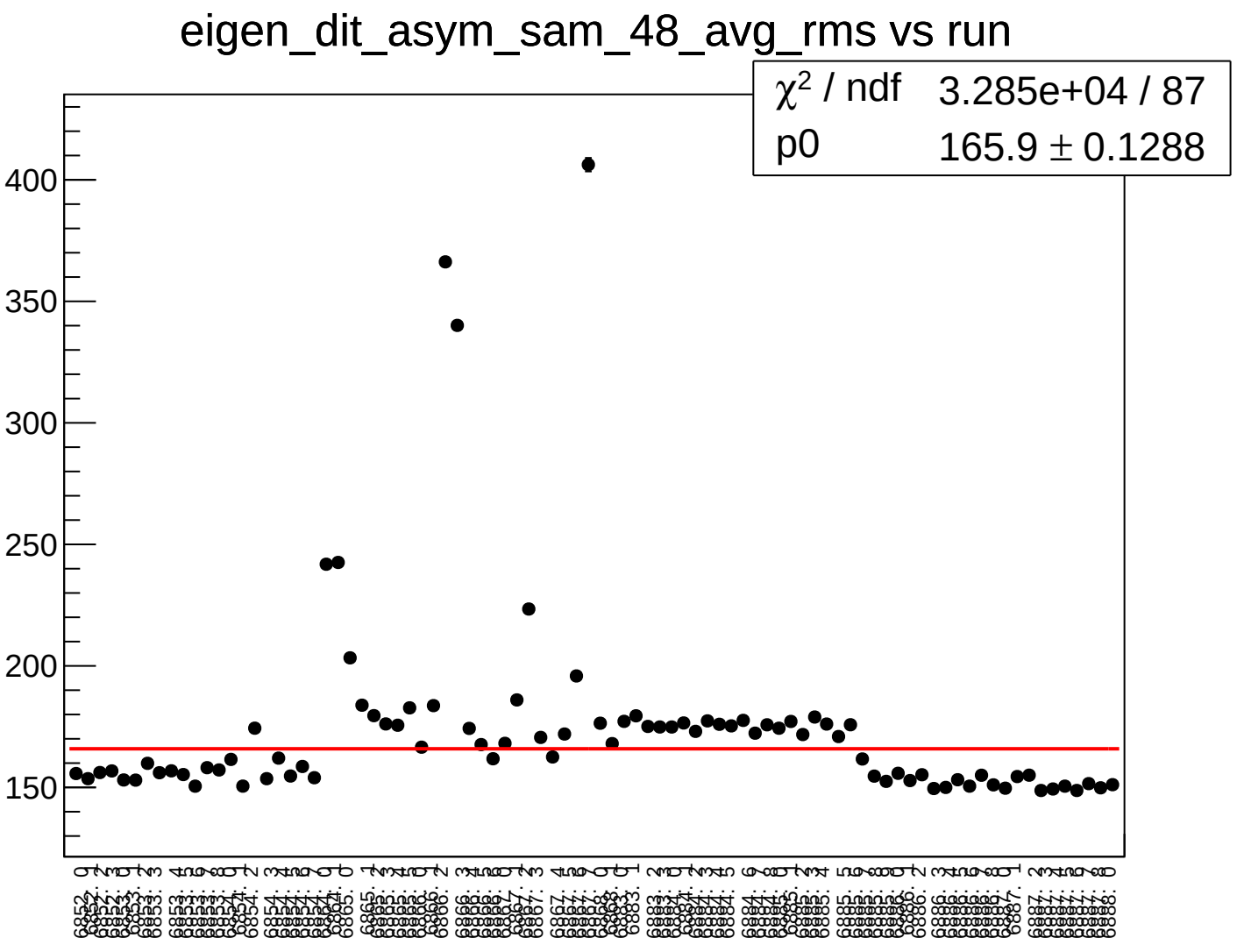

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 97.18 / 87
p0 −3251 ± 1482
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 183.4
Std Dev 0
2
1
0
−1
−2
−3

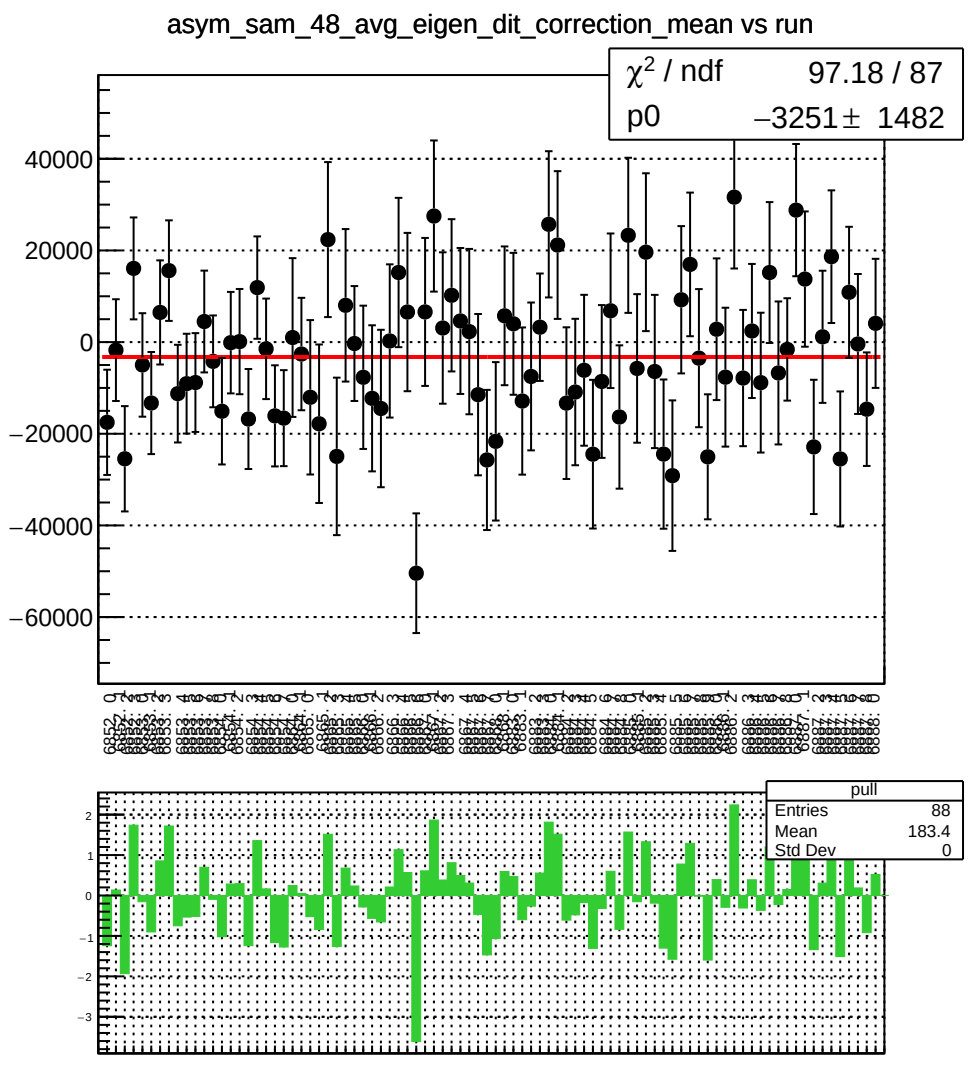

pull1D
Entries 88
Mean 0.02458
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

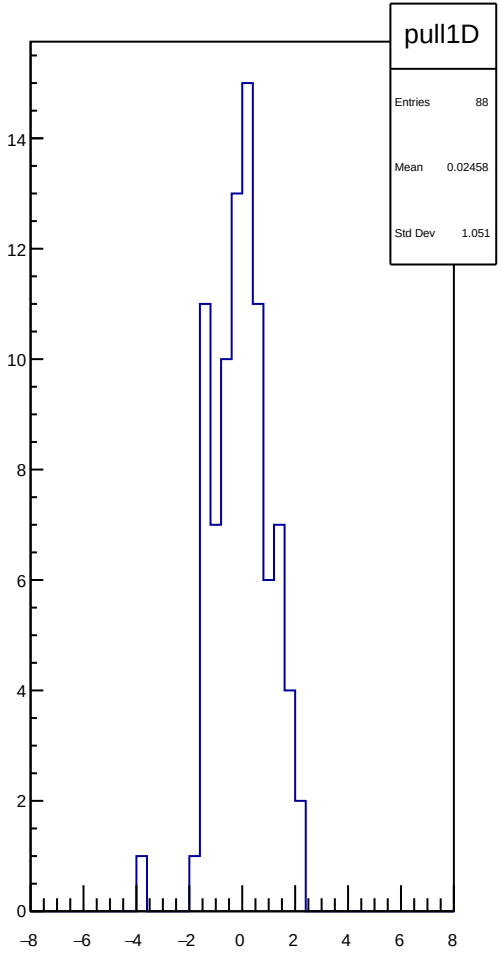

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 4.944e+04 / 87
p0 1343 ± 1.048
1700
1600
1500
1400
1300
1200
1100
1000

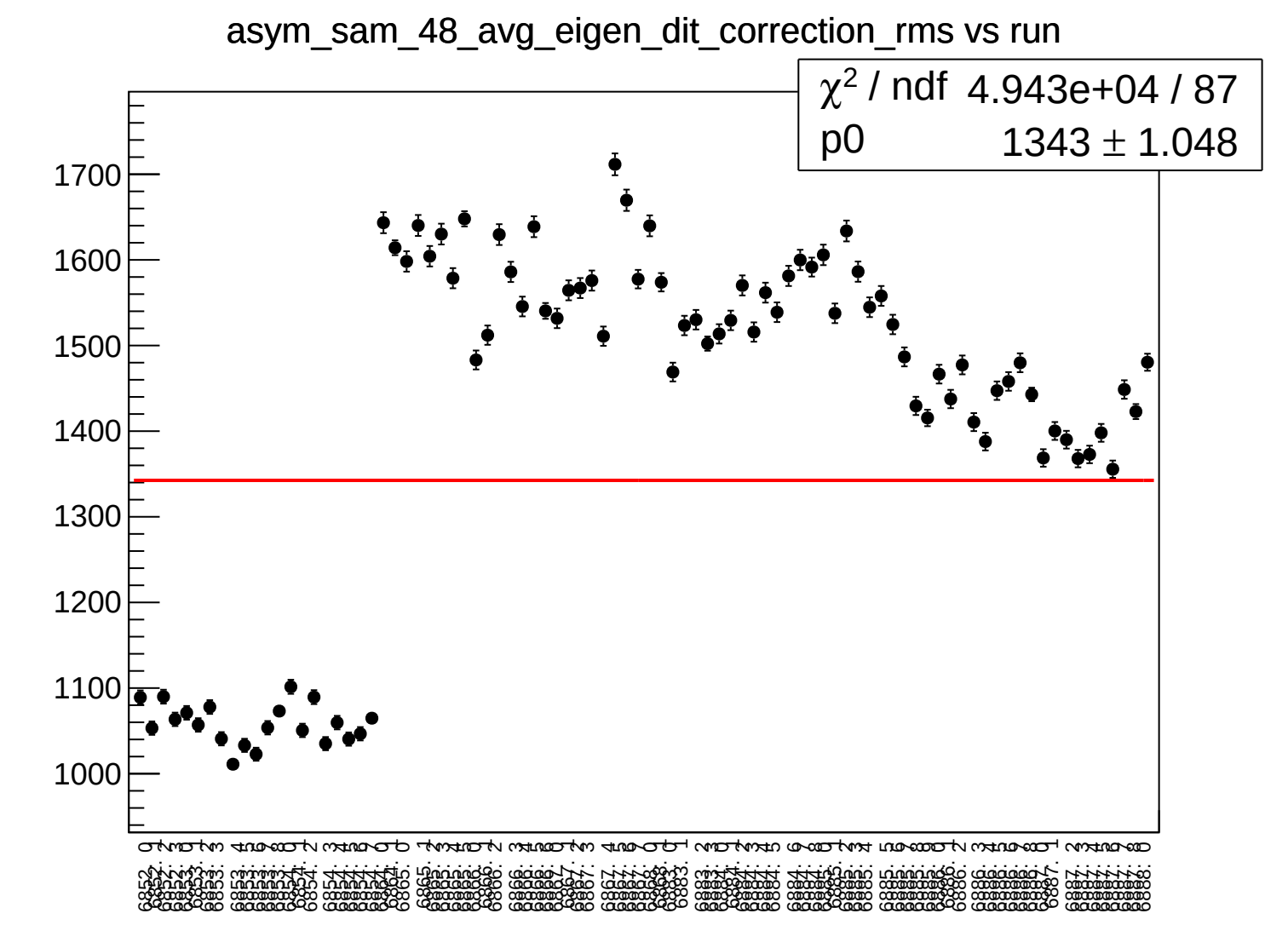

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 73.64 / 87
p0 201.4 ± 182.2
pull
Entries 88
Mean 152.8
Std Dev 0

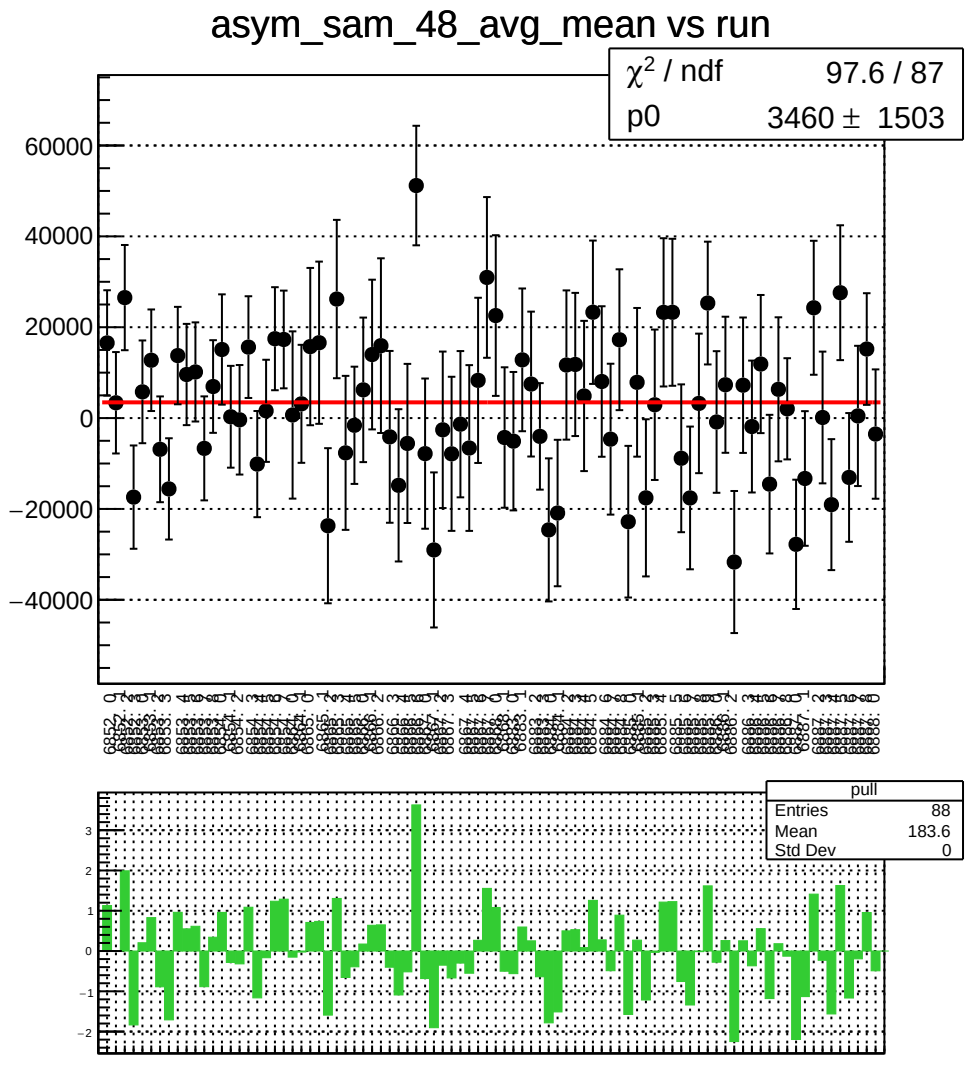

pull1D
Entries 88
Mean −0.004518
Std Dev 0.9148

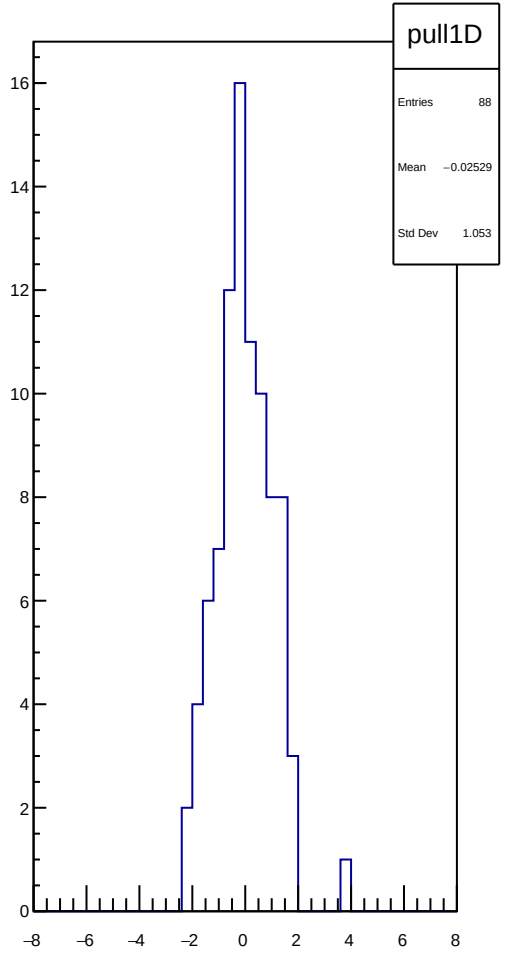

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 3.285e+04 / 87
p0 165.9 ± 0.1288
400
350
300
250
200
150

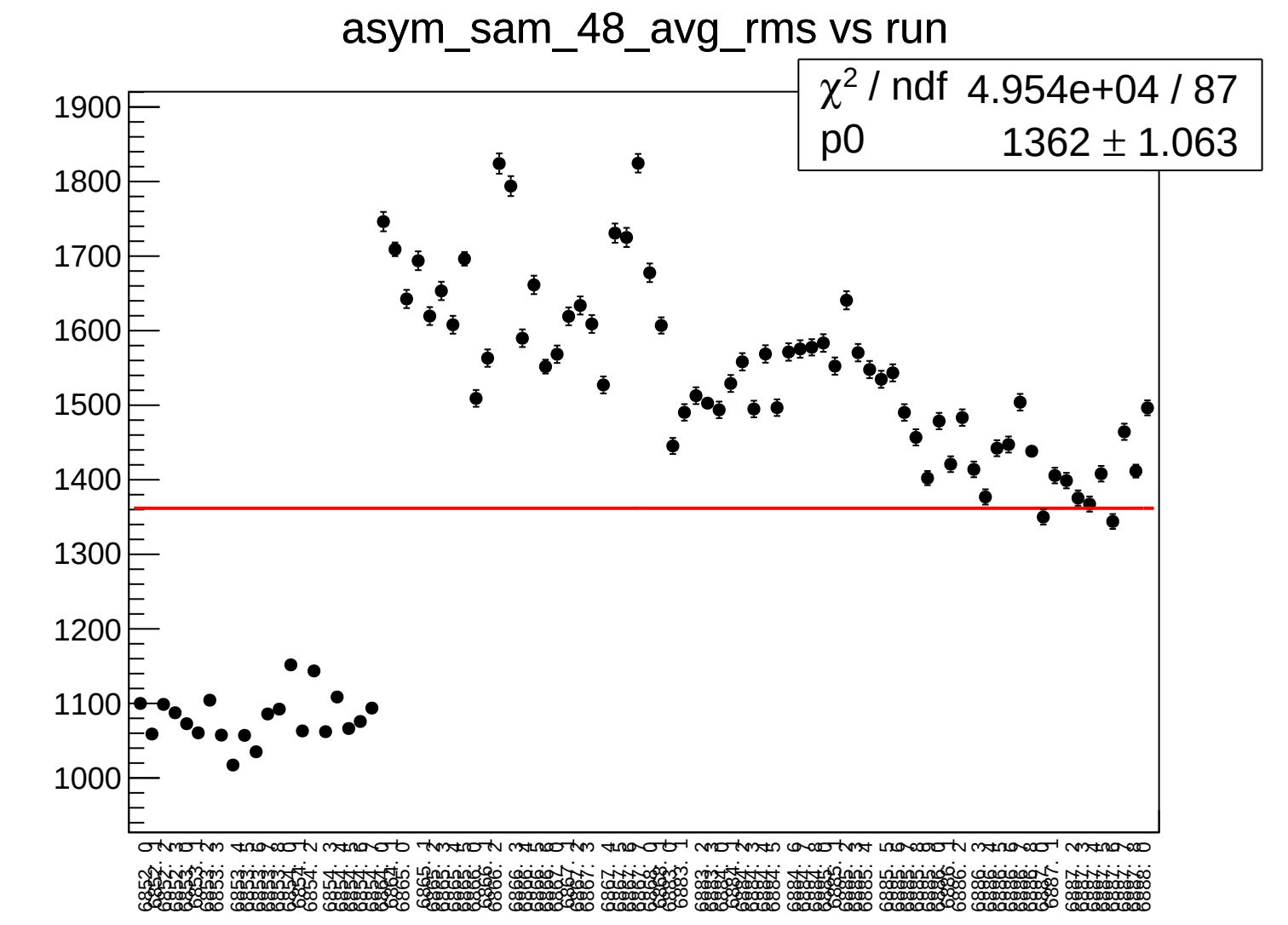

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.18 / 87
p0 −3251 ± 1482
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 183.4
Std Dev 0
2
1
0
−1
−2
−3

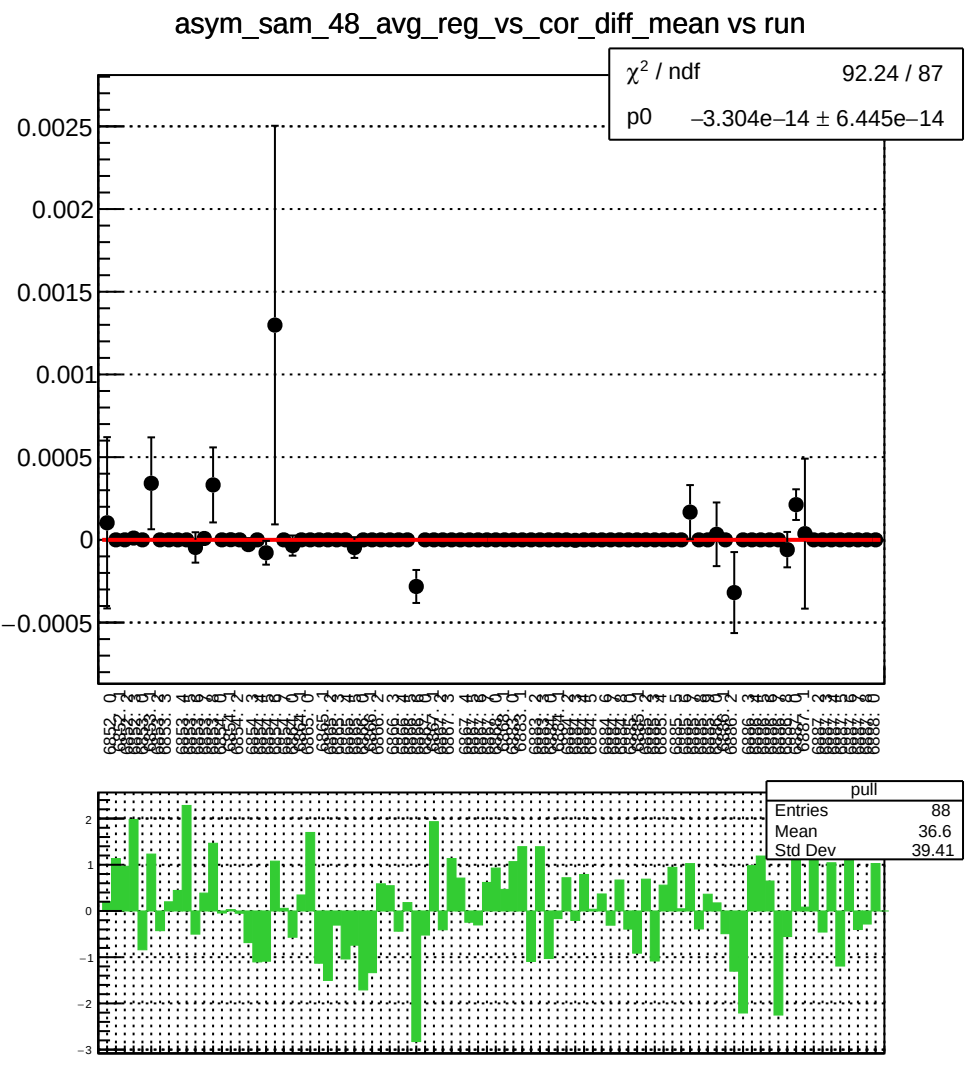

pull1D
Entries 88
Mean 0.02458
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

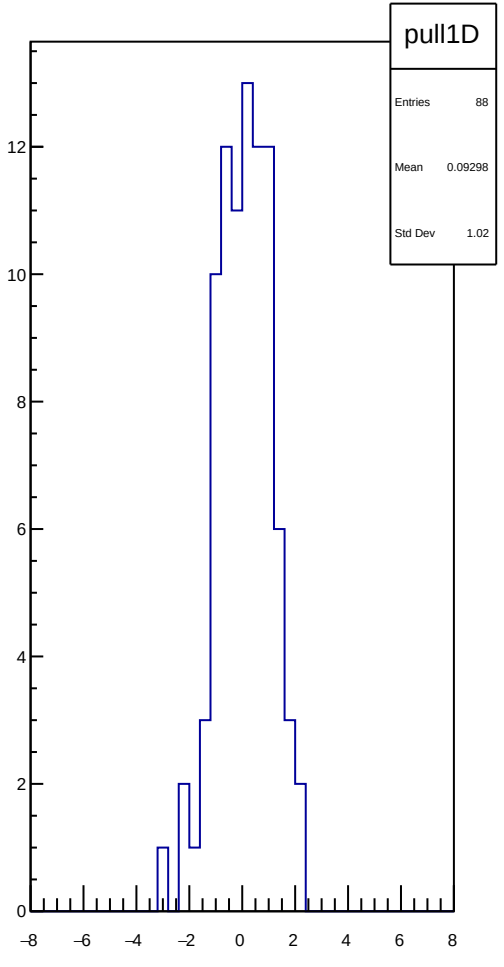

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.943e+04 / 87
p0 1343 ± 1.048
1700
1600
1500
1400
1300
1200
1100
1000

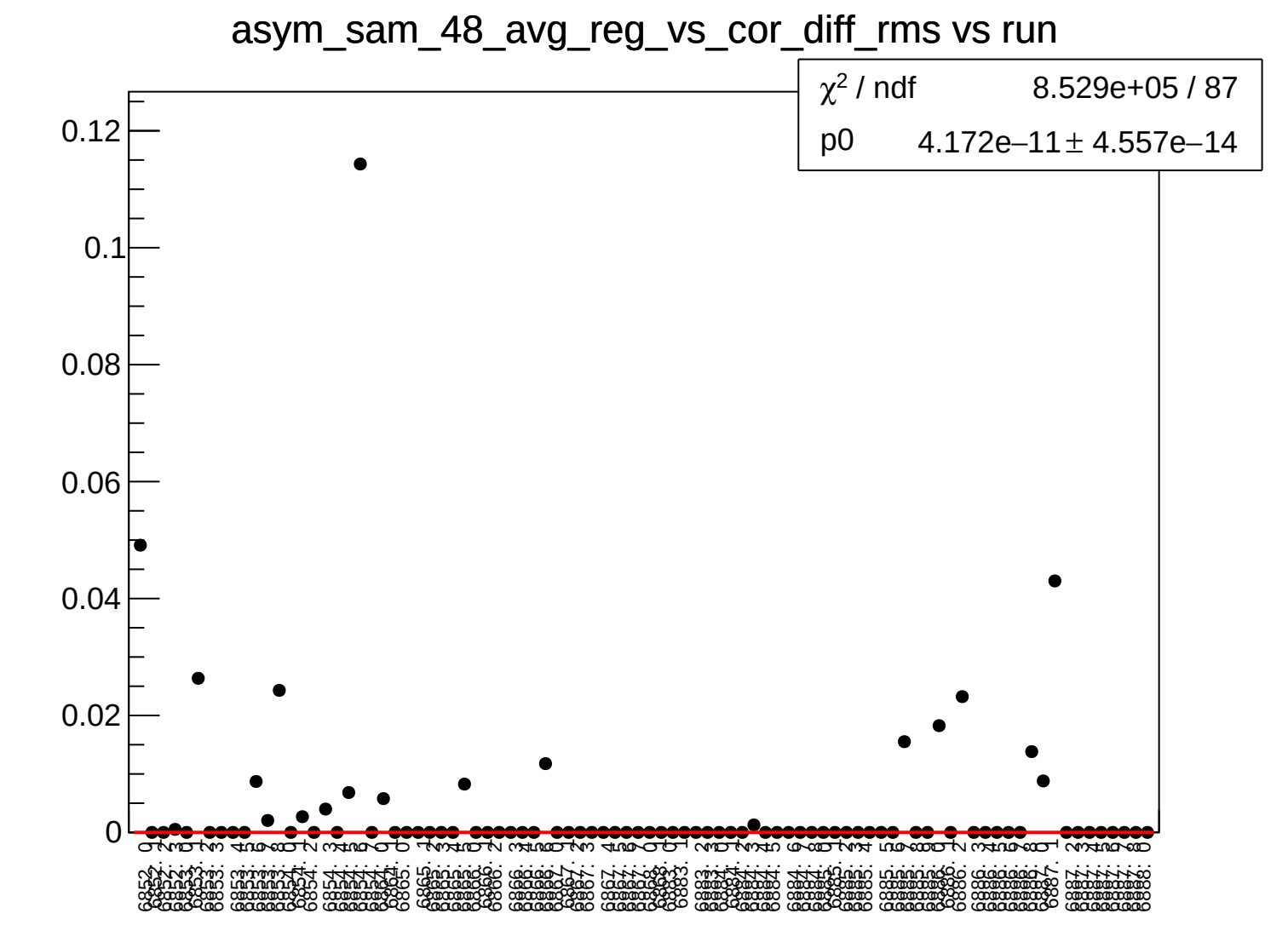

asym_sam_48_avg_mean vs run
χ² / ndf 97.6 / 87
p0 3460 ± 1503
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 183.6
Std Dev 0
3
2
1
0
−1
−2

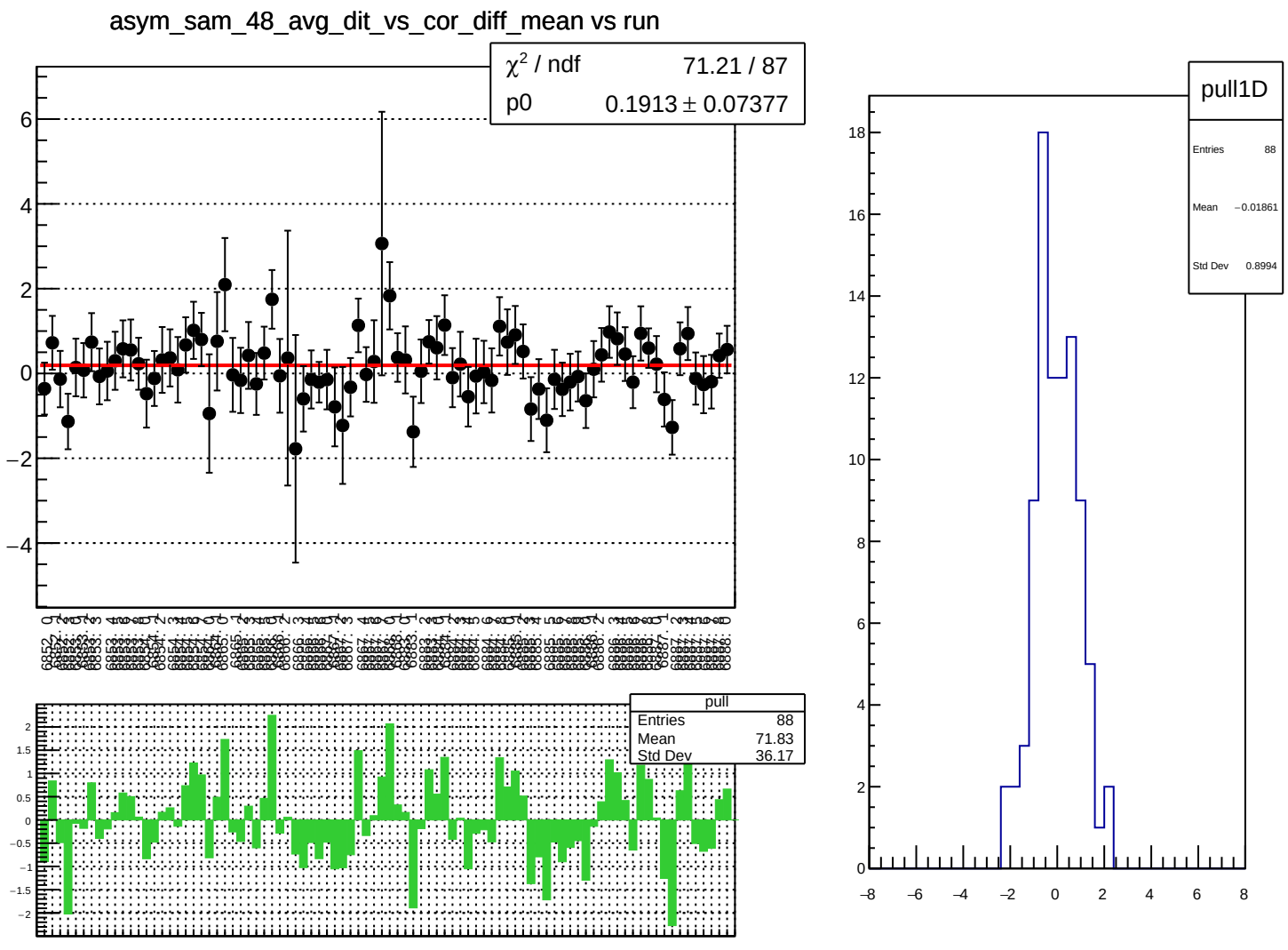

pull1D
Entries 88
Mean −0.02529
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

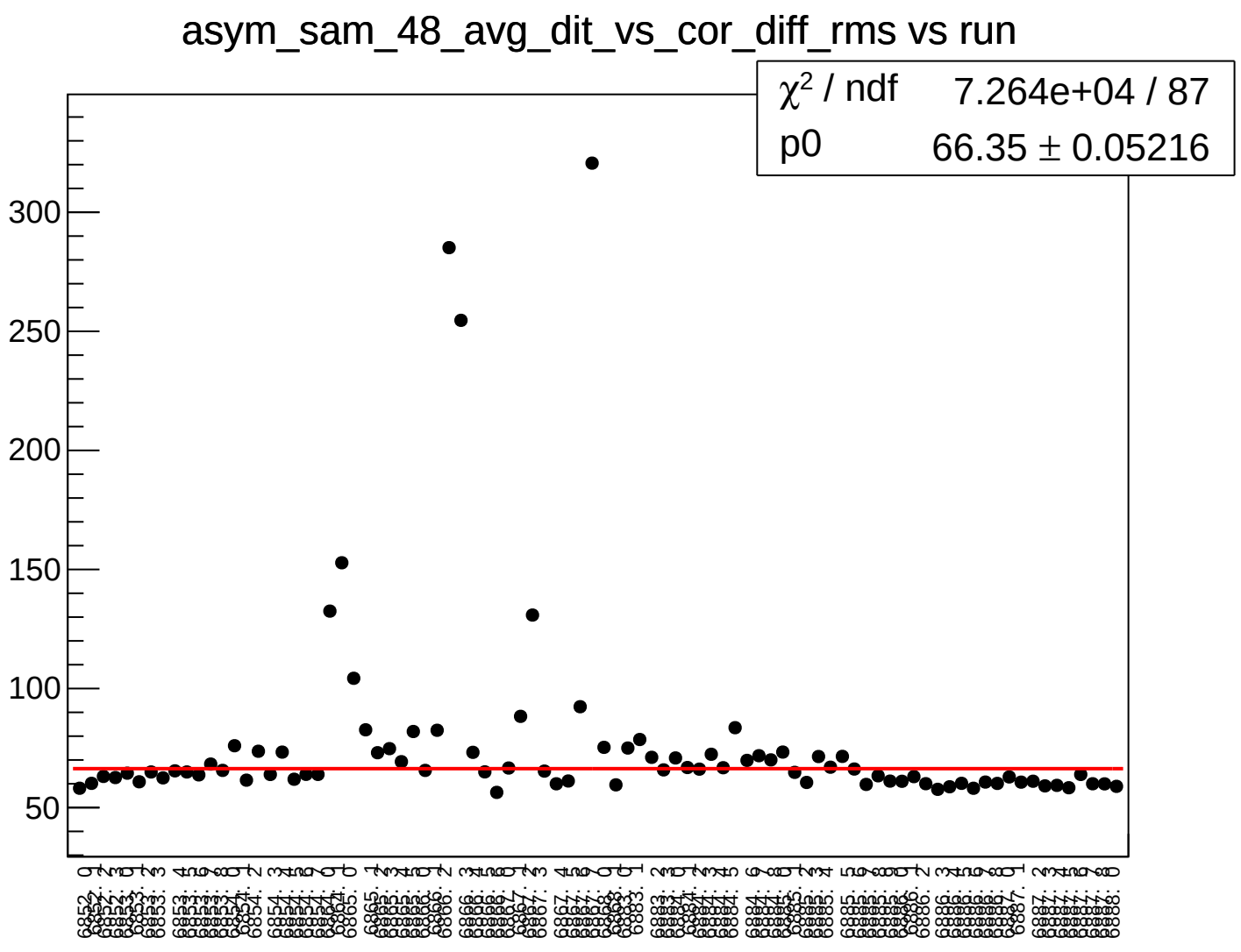

asym_sam_48_avg_rms vs run
χ² / ndf 4.954e+04 / 87
p0 1362 ± 1.063
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000

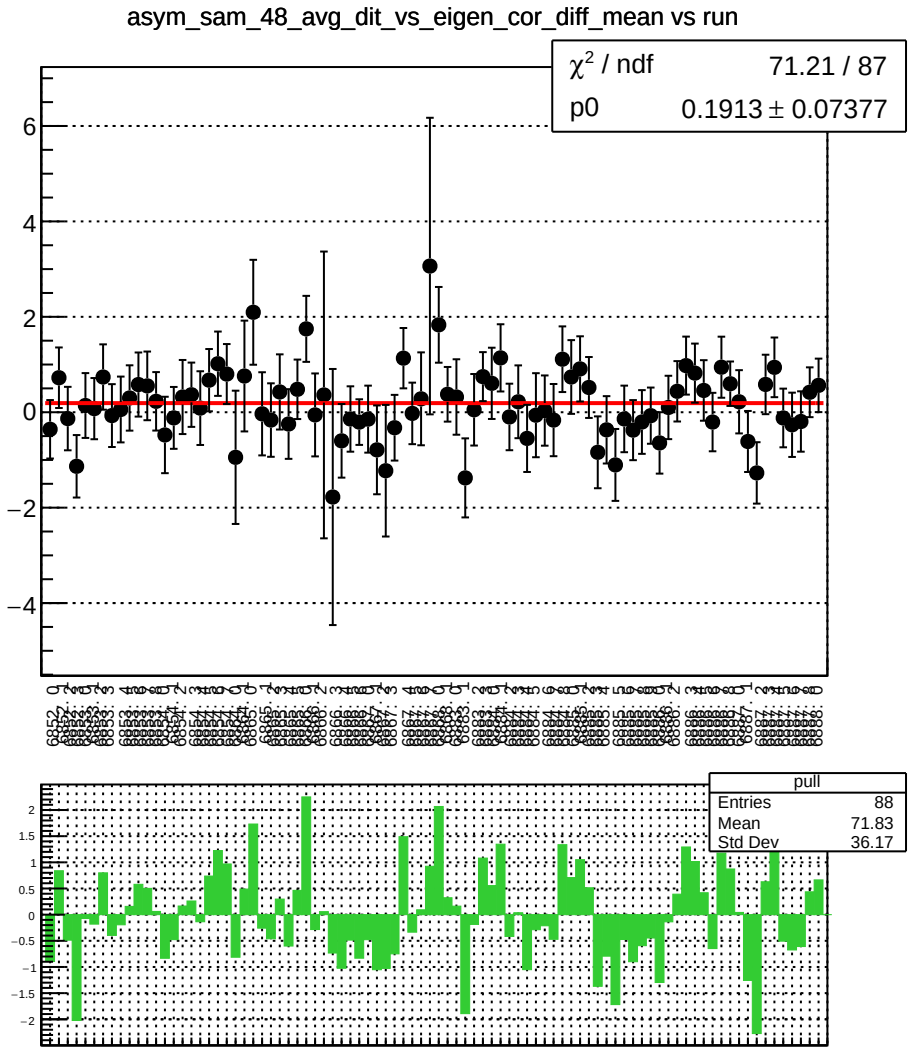

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.24 / 87
p0 −3.304e−14 ± 6.445e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 88
Mean 36.6
Std Dev 39.41
2
1
0
−1
−2
−3

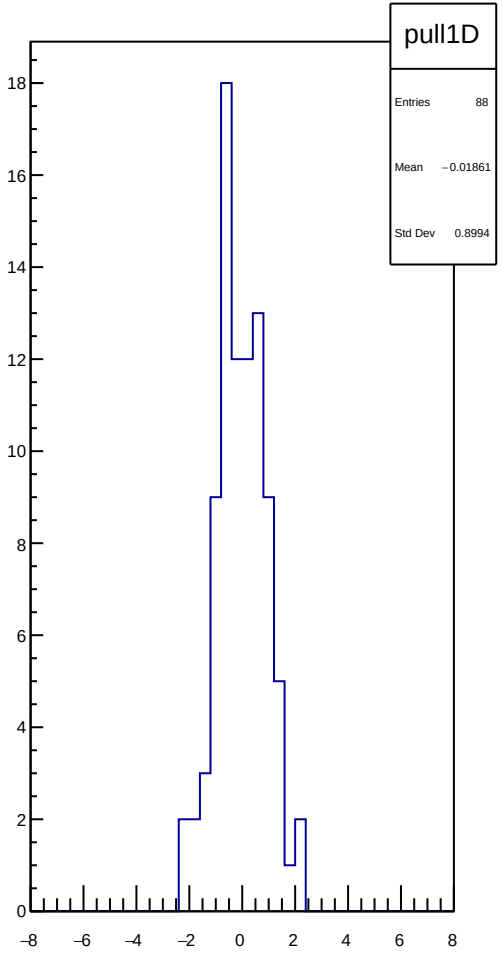

pull1D
Entries 88
Mean 0.09298
Std Dev 1.02
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

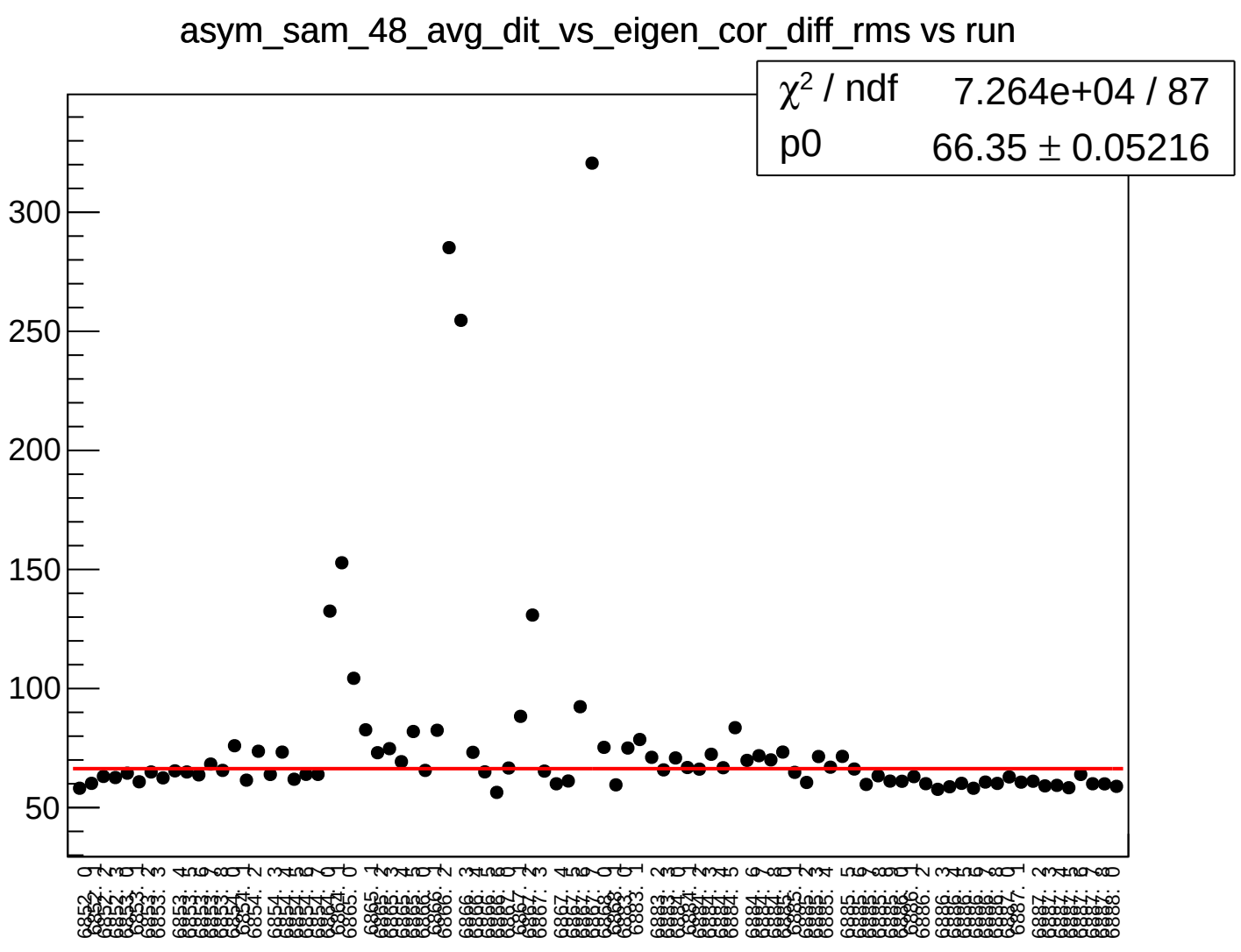

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.529e+05 / 87
p0 4.172e−11 ± 4.557e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

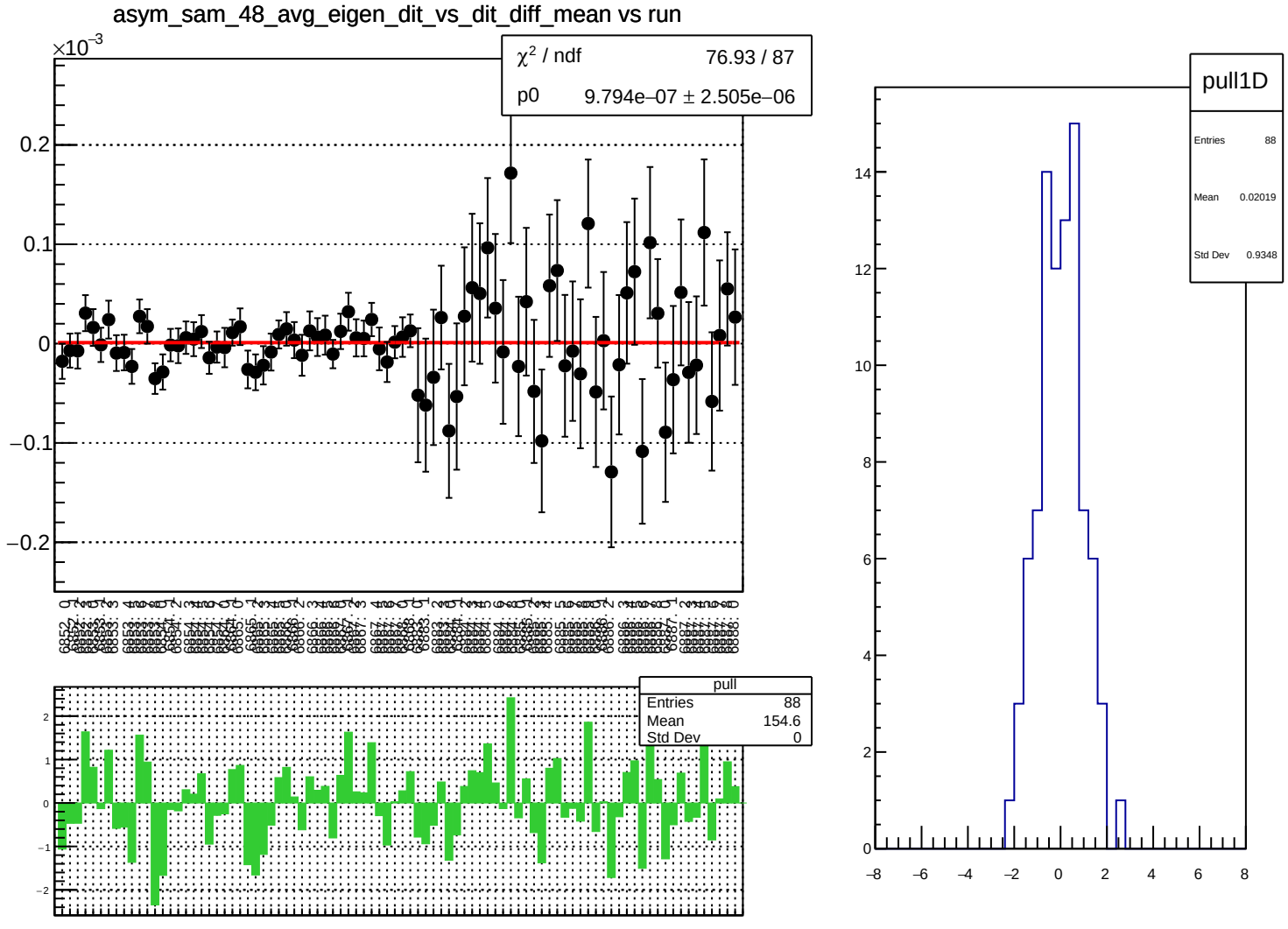

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.21 / 87
p0 0.1913 ± 0.07377
pull
Entries 88
Mean 71.83
Std Dev 36.17
pull1D
Entries 88
Mean −0.01861
Std Dev 0.8994

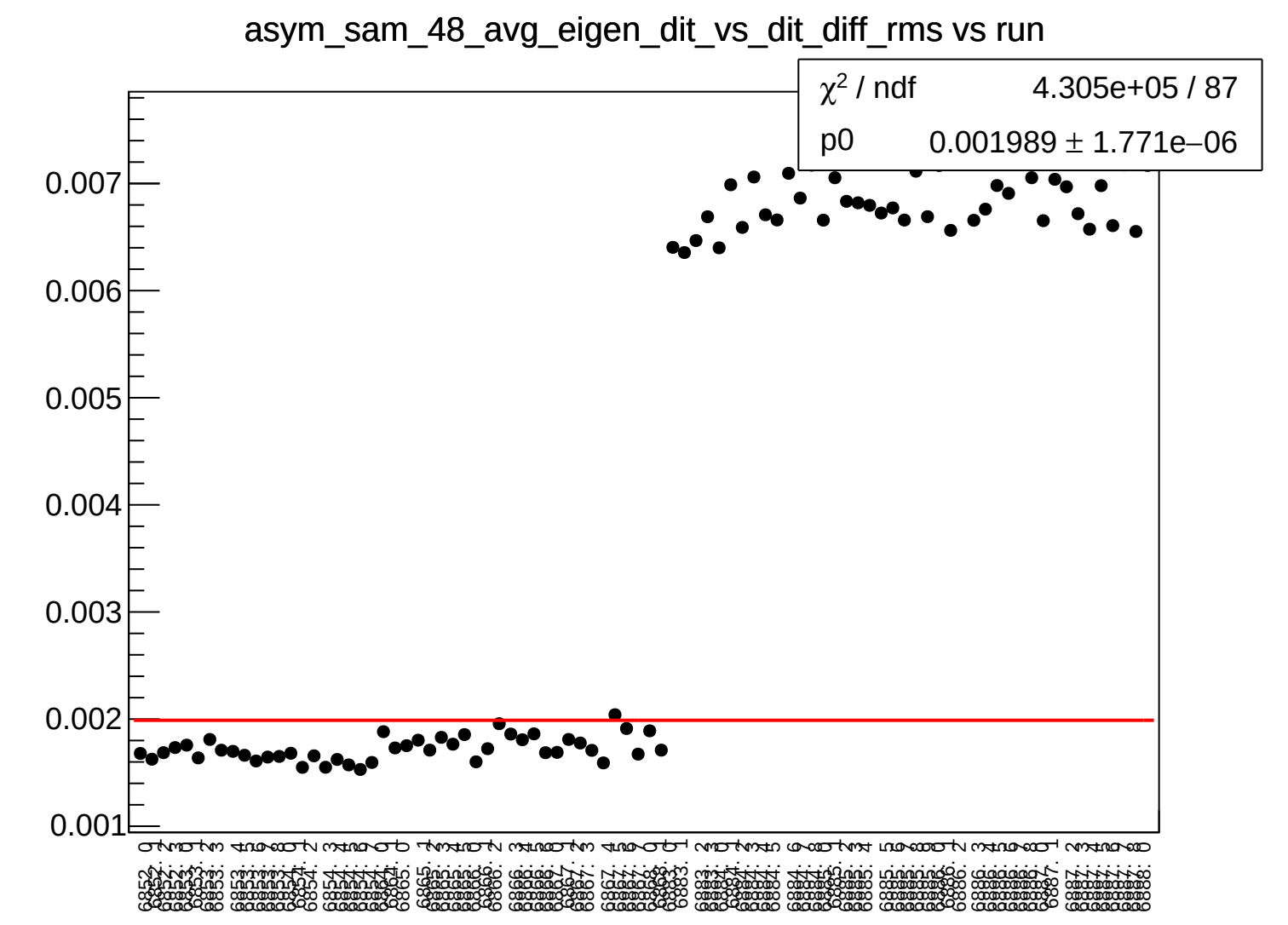

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.264e+04 / 87
p0 66.35 ± 0.05216
300
250
200
150
100
50

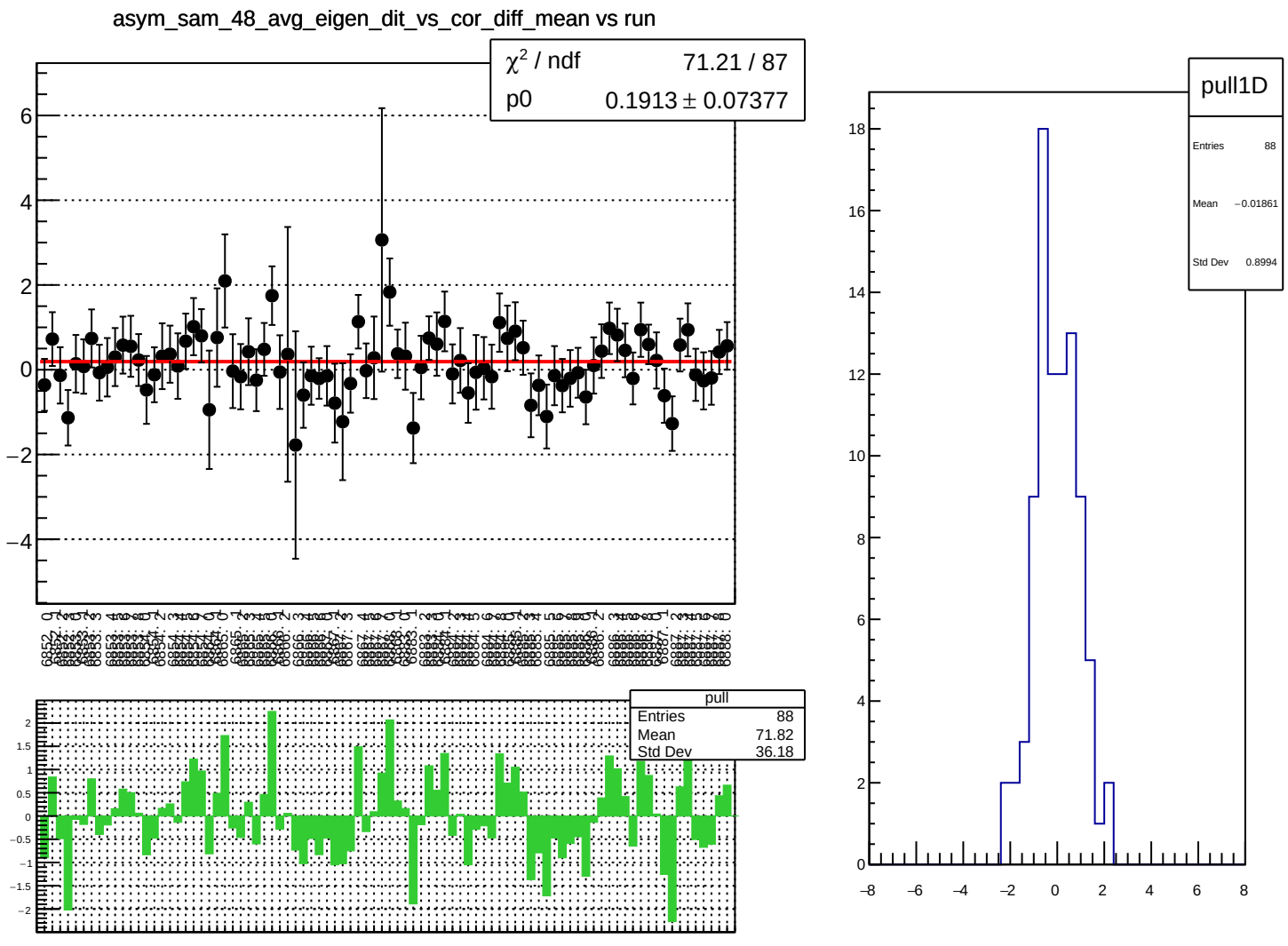

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.21 / 87
p0 0.1913 ± 0.07377
pull
Entries 88
Mean 71.83
Std Dev 36.17

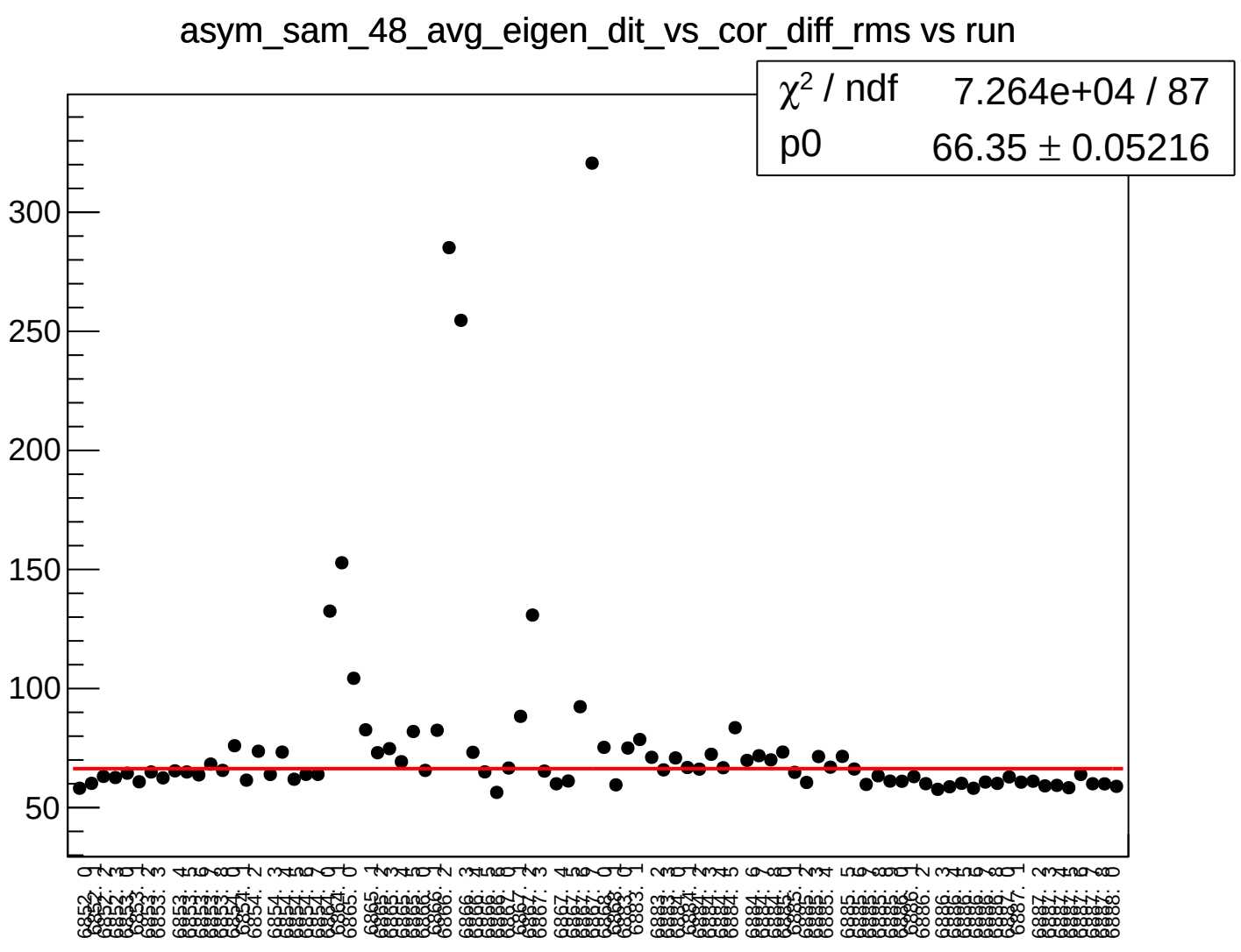

pull1D
Entries 88
Mean −0.01861
Std Dev 0.8994

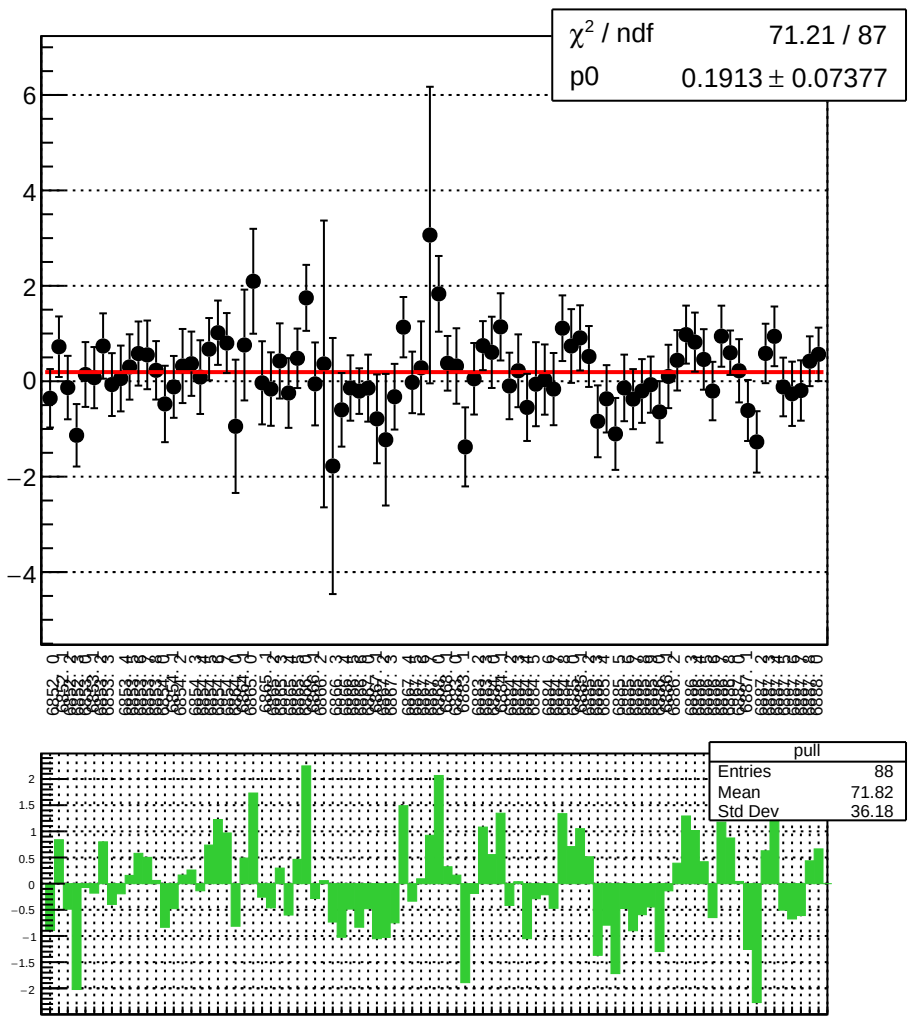

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.264e+04 / 87
p0 66.35 ± 0.05216
300
250
200
150
100
50

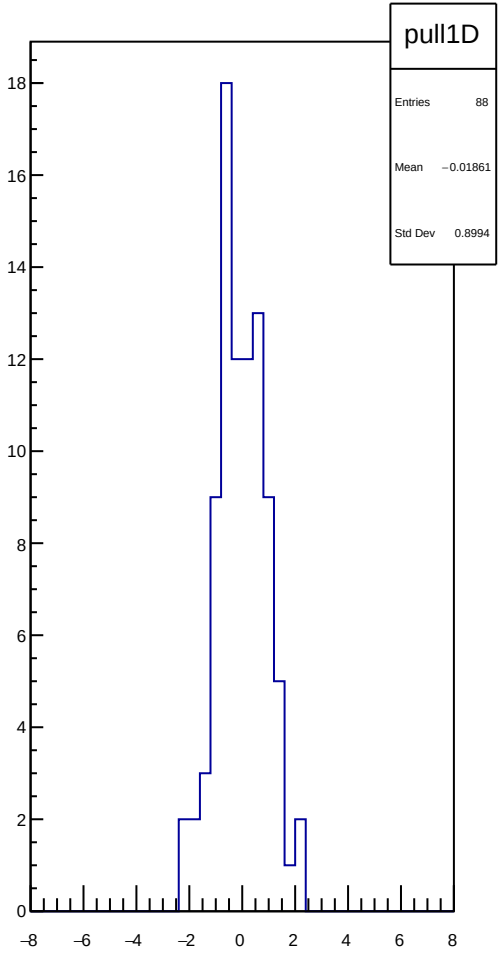

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 76.93 / 87
p0 9.794e−07 ± 2.505e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean 154.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.02019
Std Dev 0.9348
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

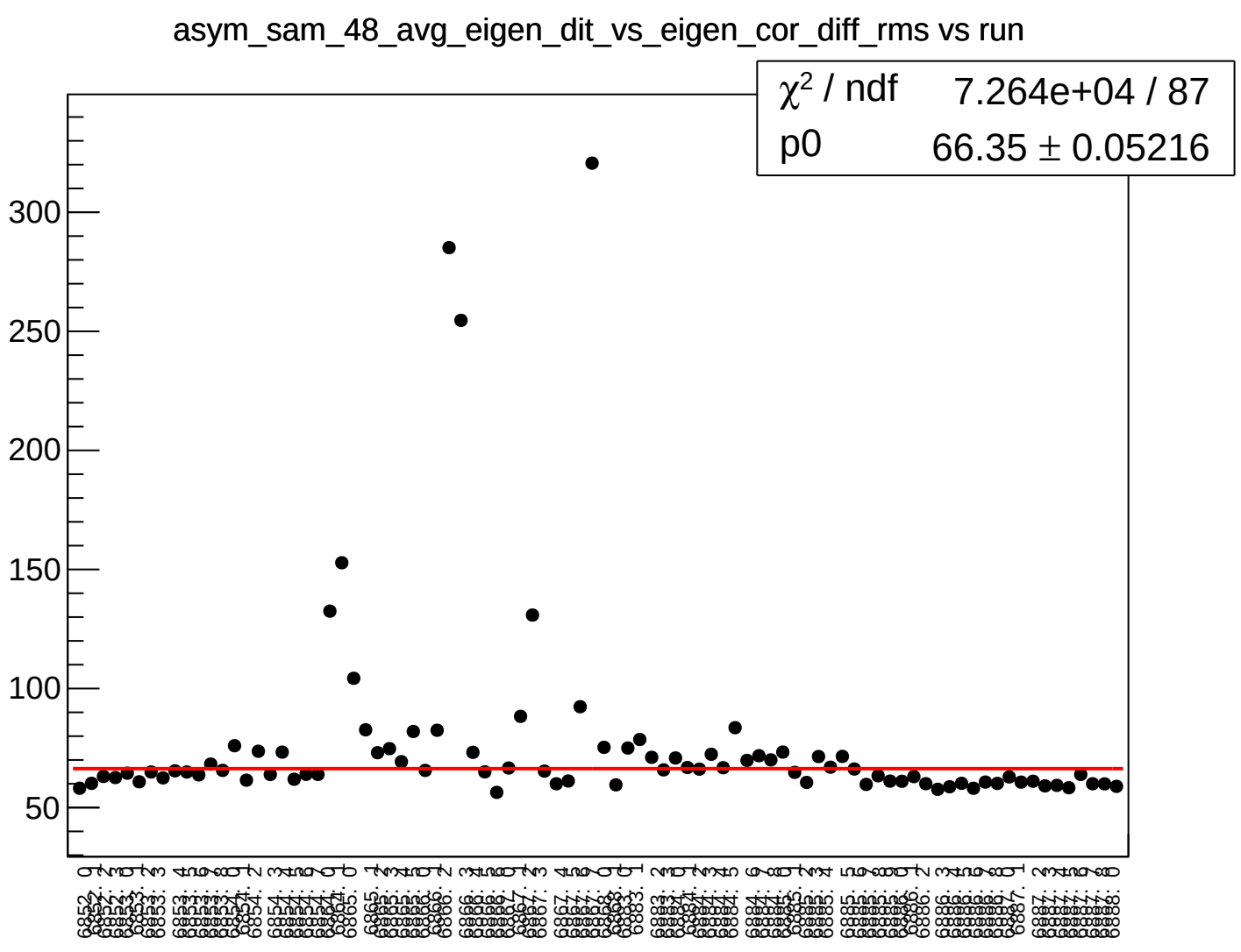

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.305e+05 / 87
p0 0.001989 ± 1.771e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

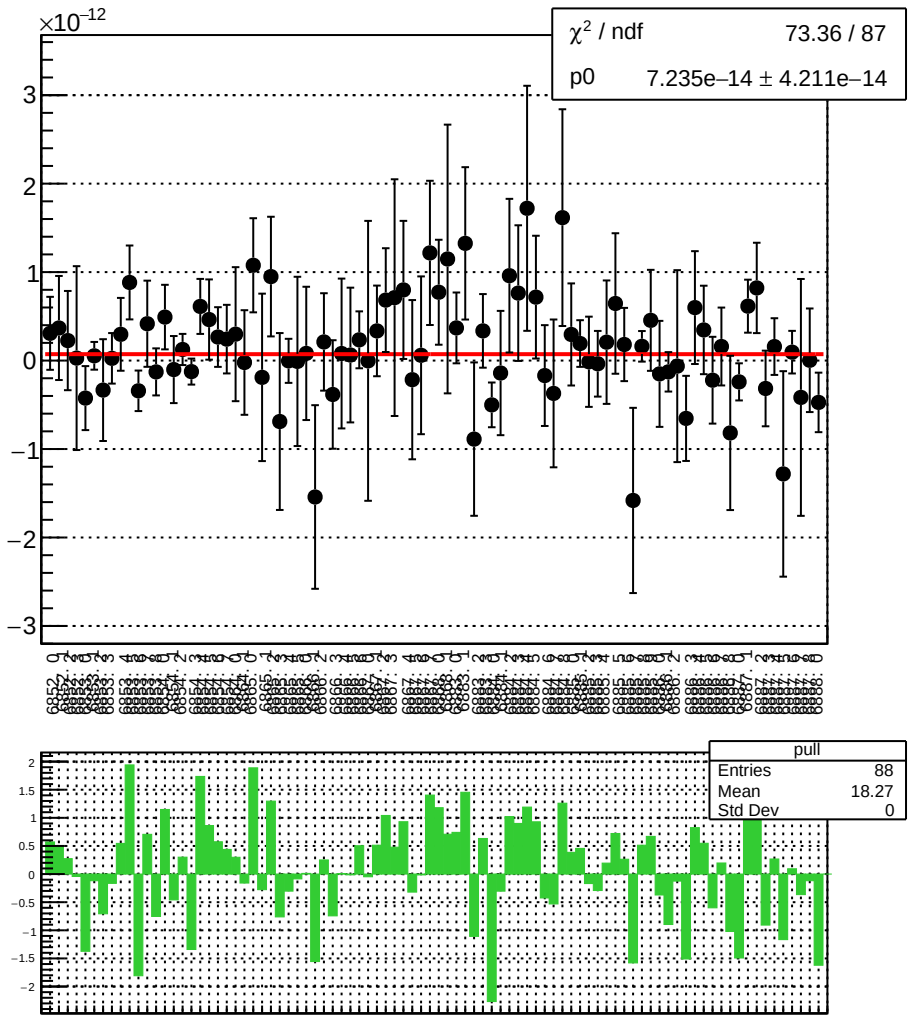

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.21 / 87
p0 0.1913 ± 0.07377
pull
Entries 88
Mean 71.82
Std Dev 36.18
pull1D
Entries 88
Mean −0.01861
Std Dev 0.8994

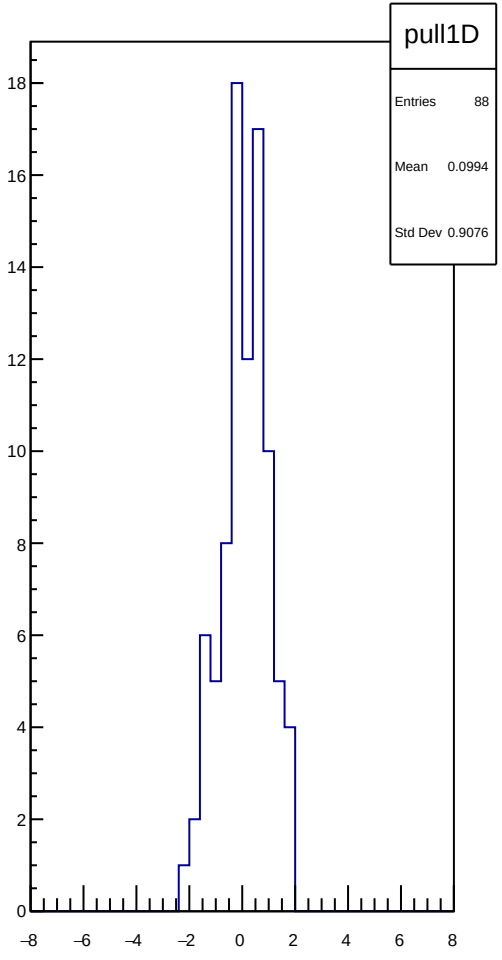

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.264e+04 / 87
p0 66.35 ± 0.05216
300
250
200
150
100
50

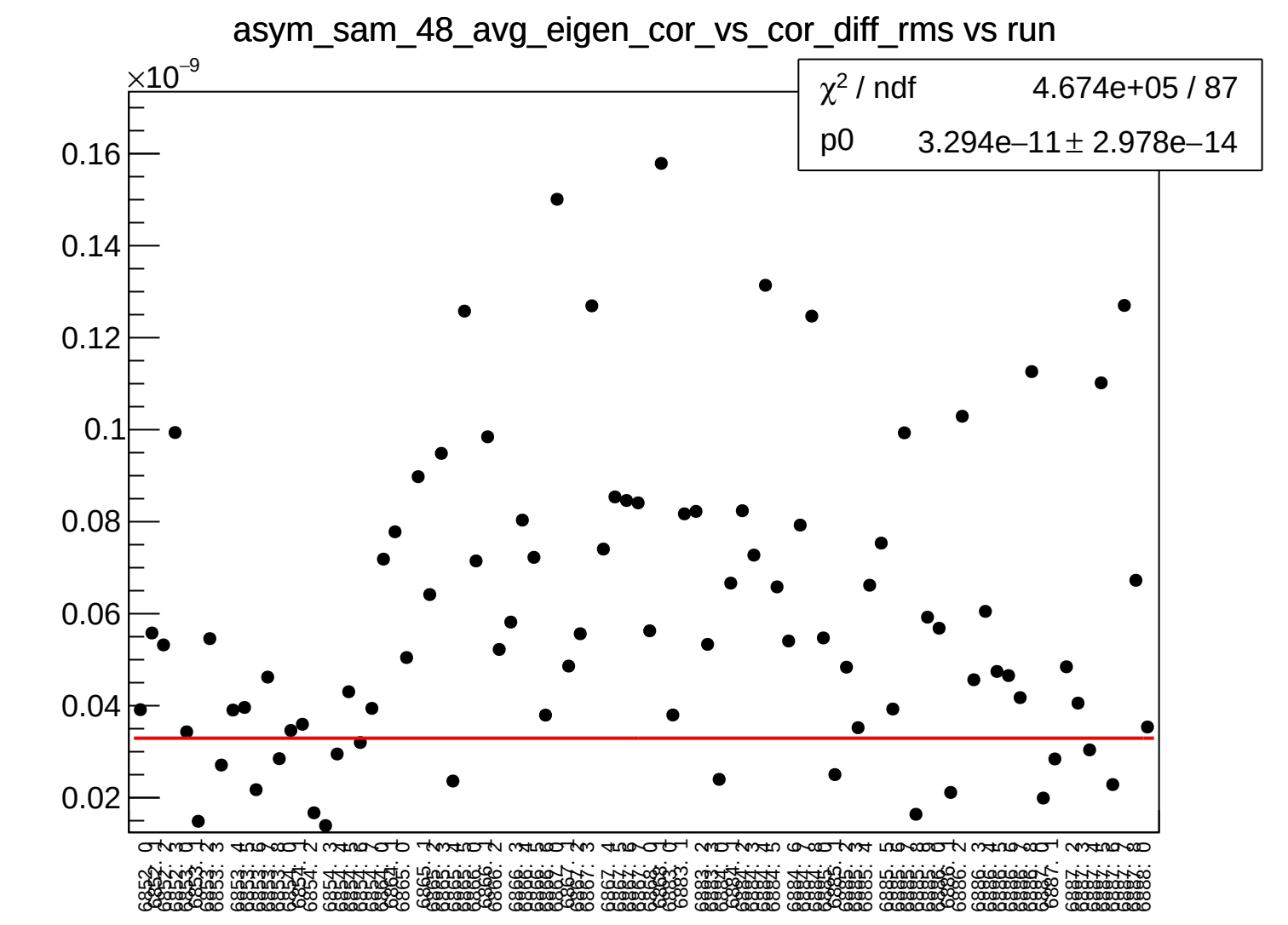

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.21 / 87
p0 0.1913 ± 0.07377
pull
Entries 88
Mean 71.82
Std Dev 36.18

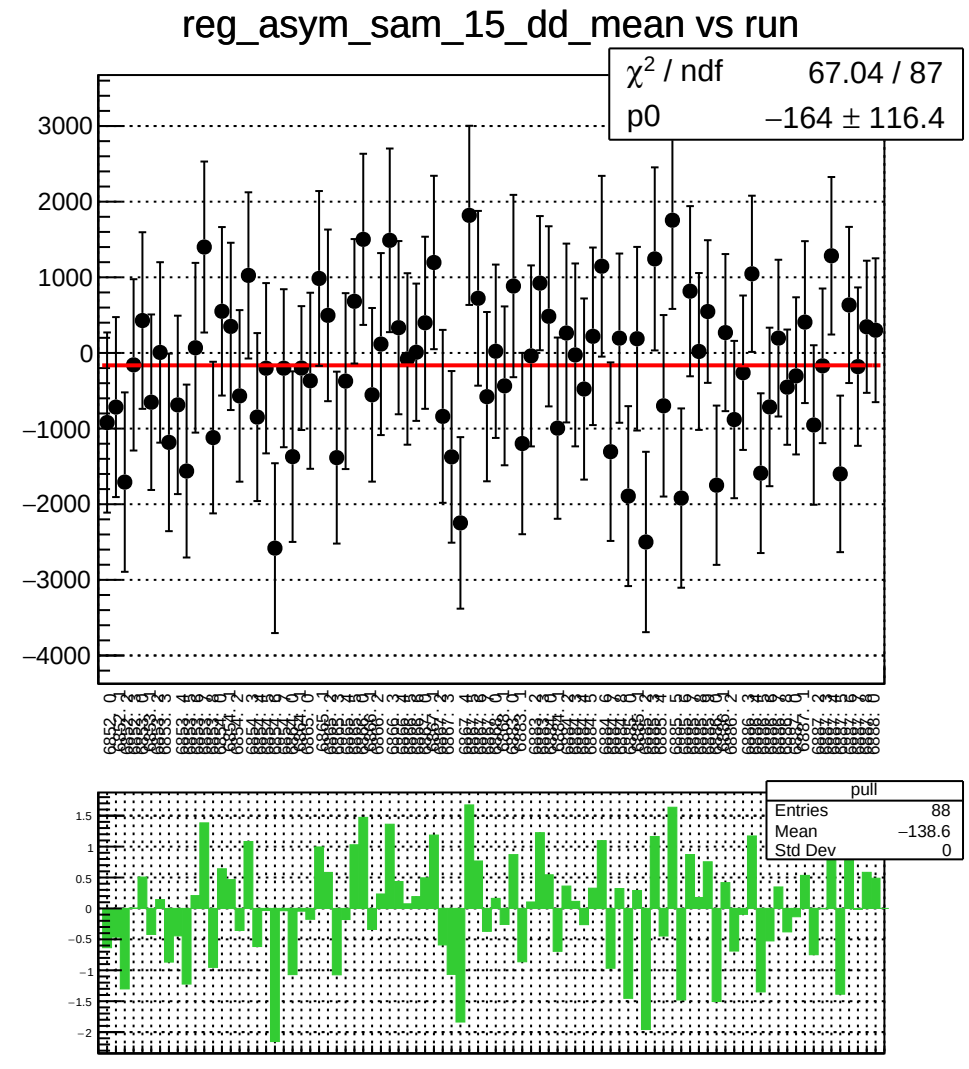

pull1D
Entries 88
Mean −0.01861
Std Dev 0.8994

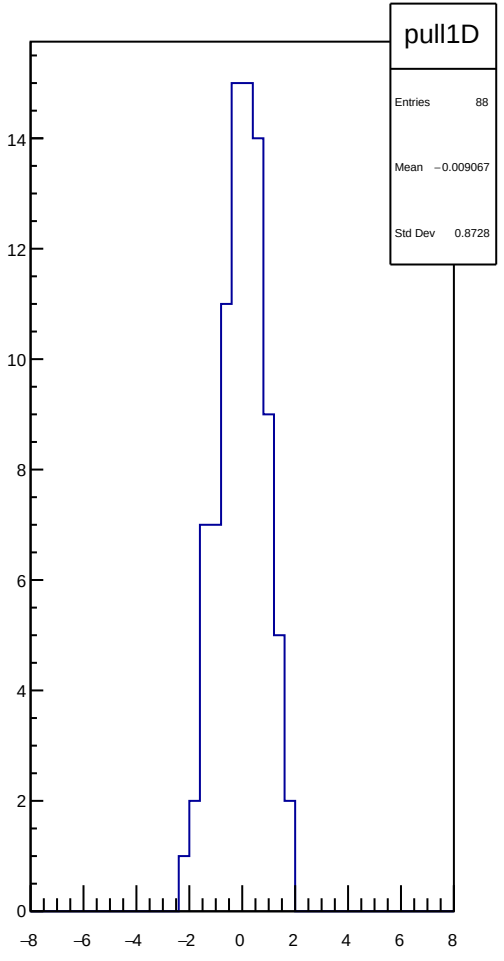

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.264e+04 / 87
p0 66.35 ± 0.05216
300
250
200
150
100
50

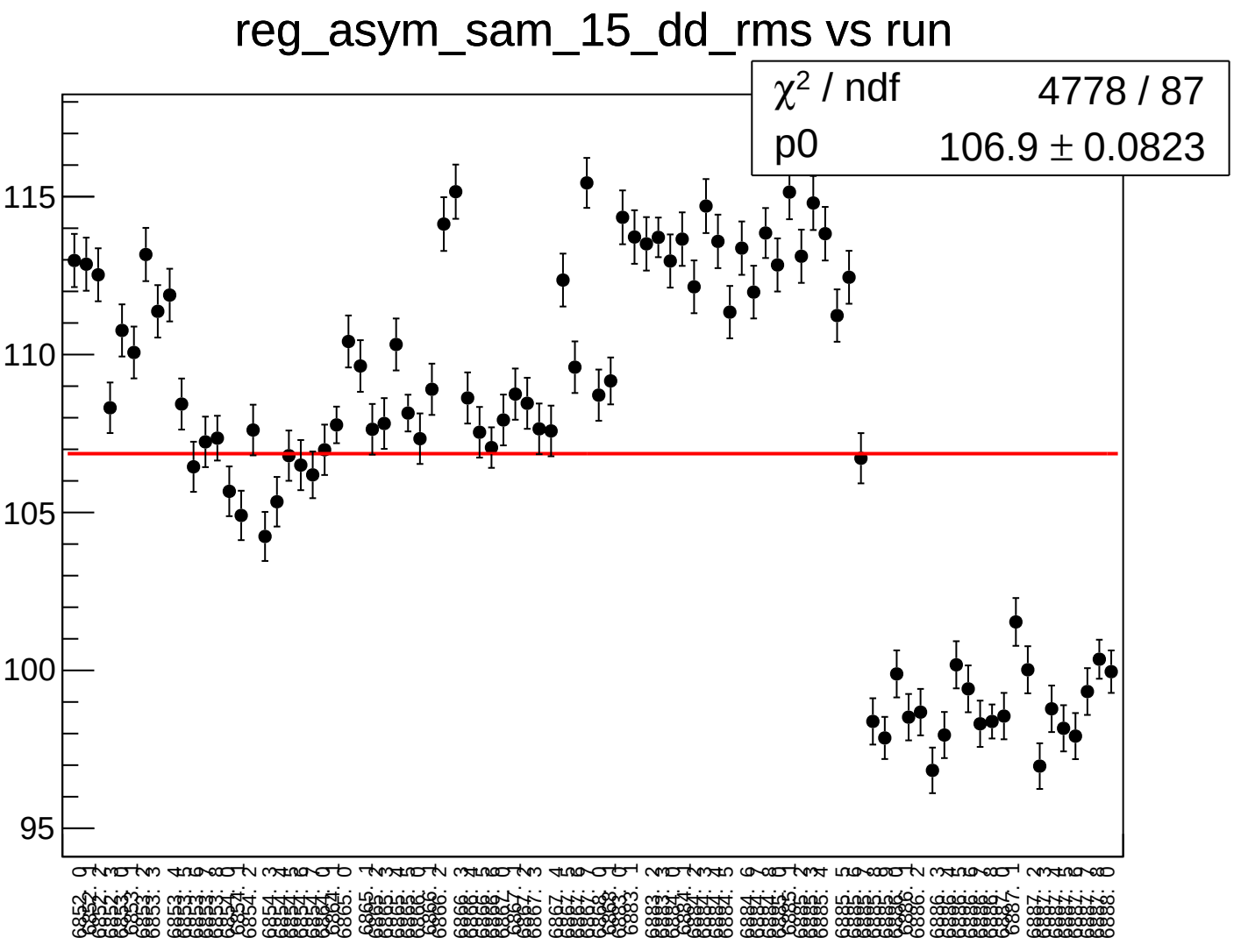

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.36 / 87
p0 7.235e−14 ± 4.211e−14
pull
Entries 88
Mean 18.27
Std Dev 0

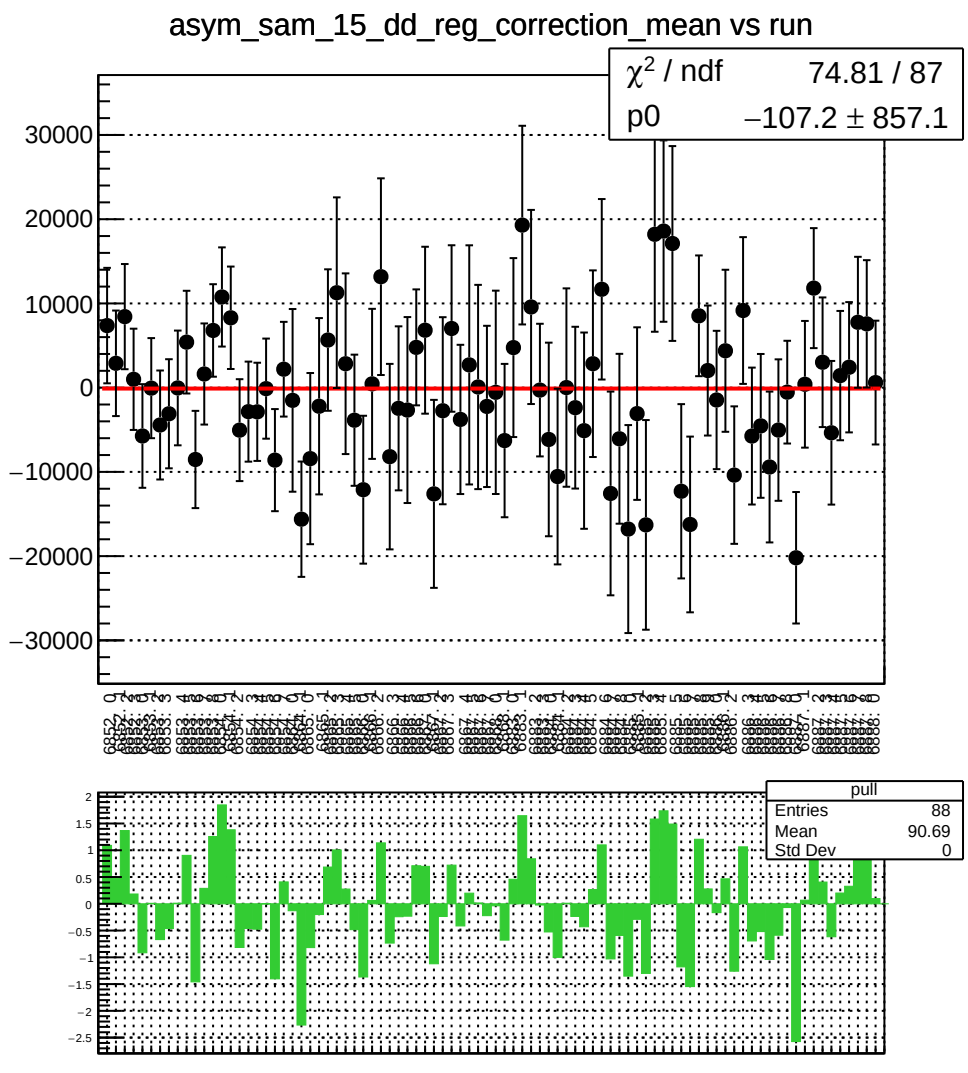

pull1D
Entries 88
Mean 0.0994
Std Dev 0.9076

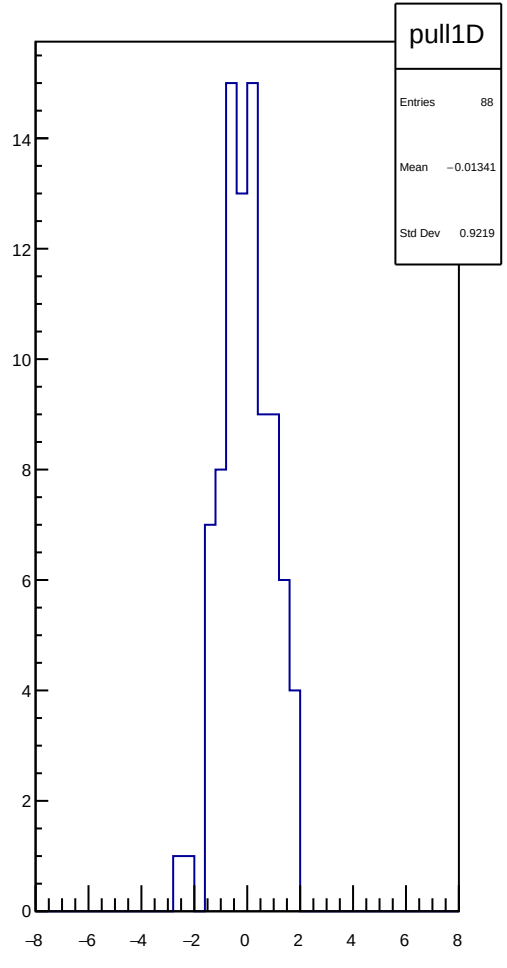

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.674e+05 / 87
p0 3.294e−11 ± 2.978e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

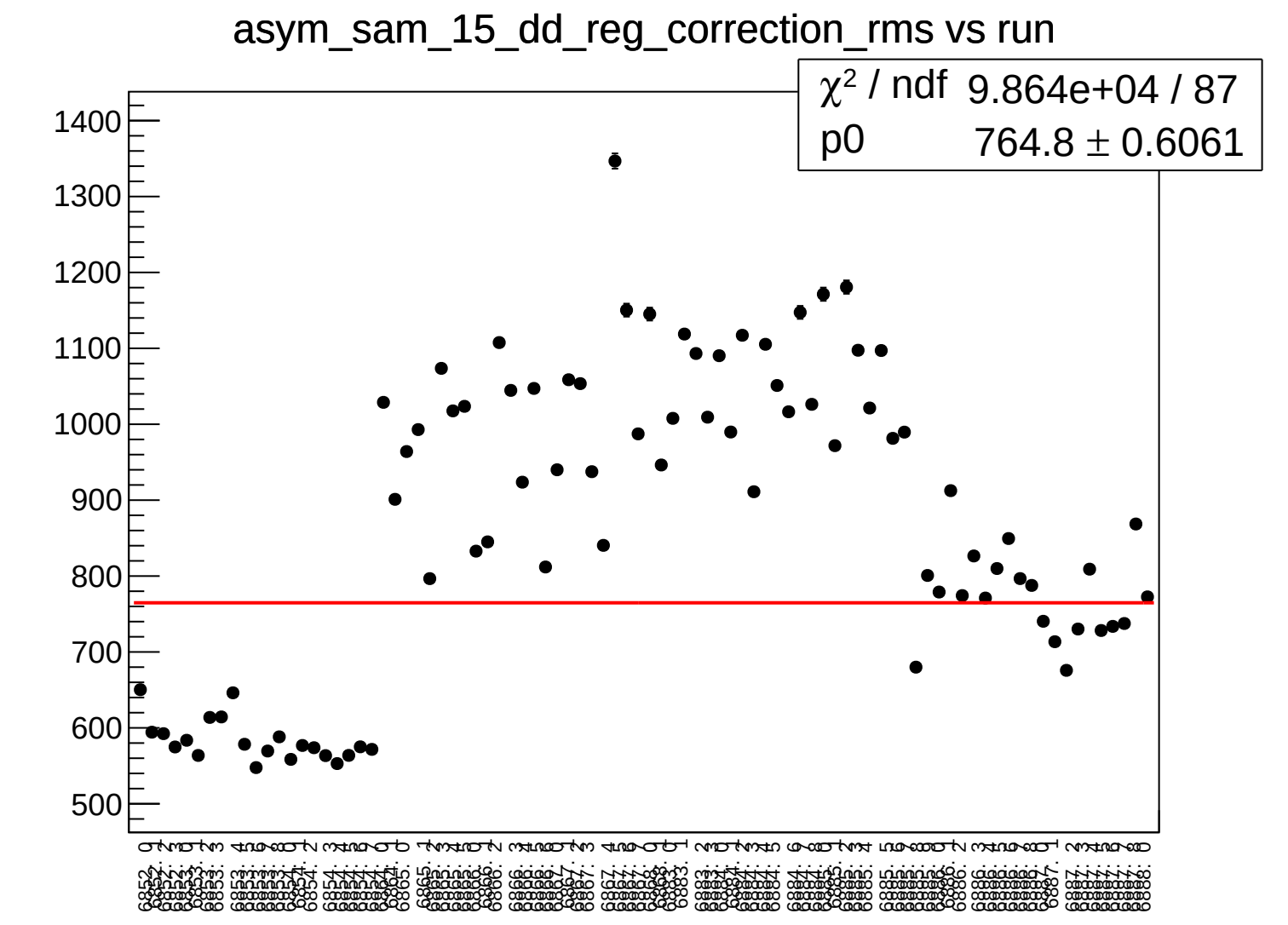

reg_asym_sam_15_dd_mean vs run
χ² / ndf 67.04 / 87
p0 −164 ± 116.4
pull
Entries 88
Mean −138.6
Std Dev 0

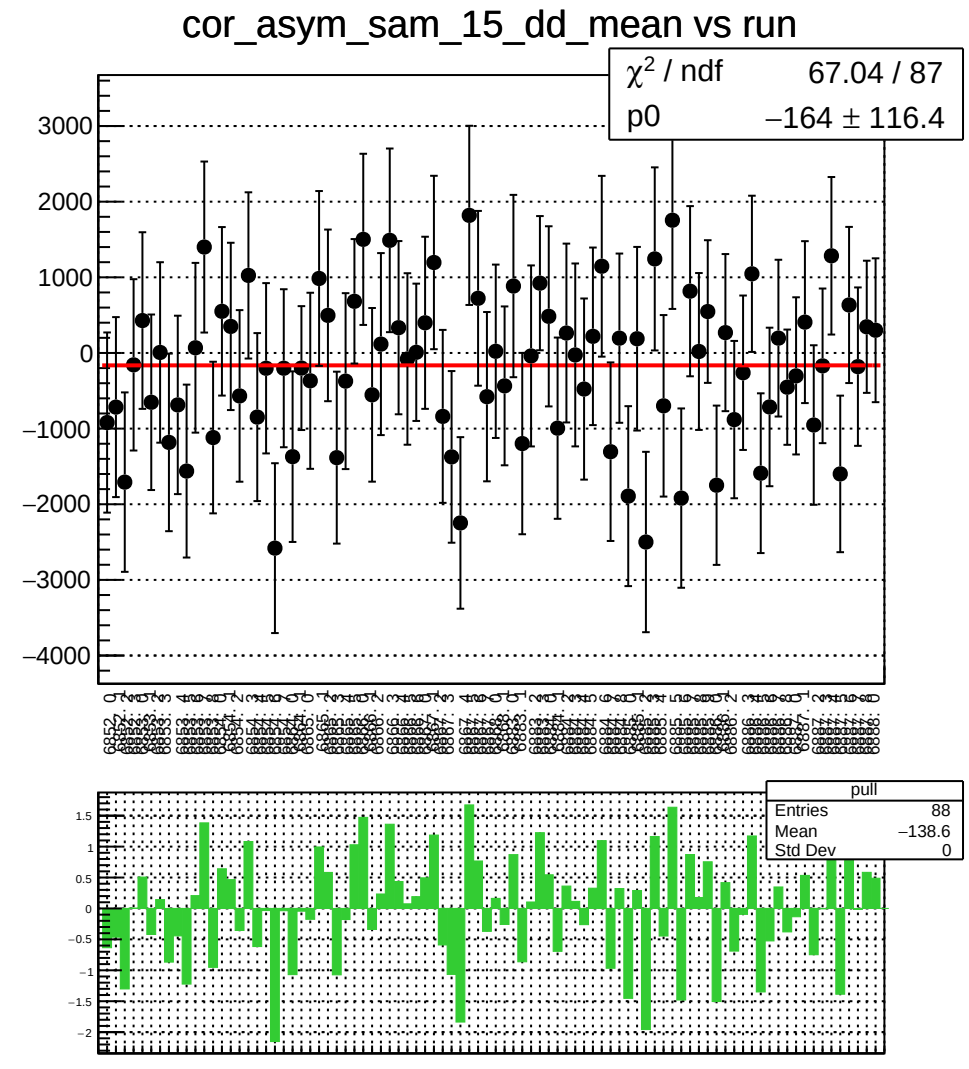

pull1D
Entries 88
Mean −0.009067
Std Dev 0.8728

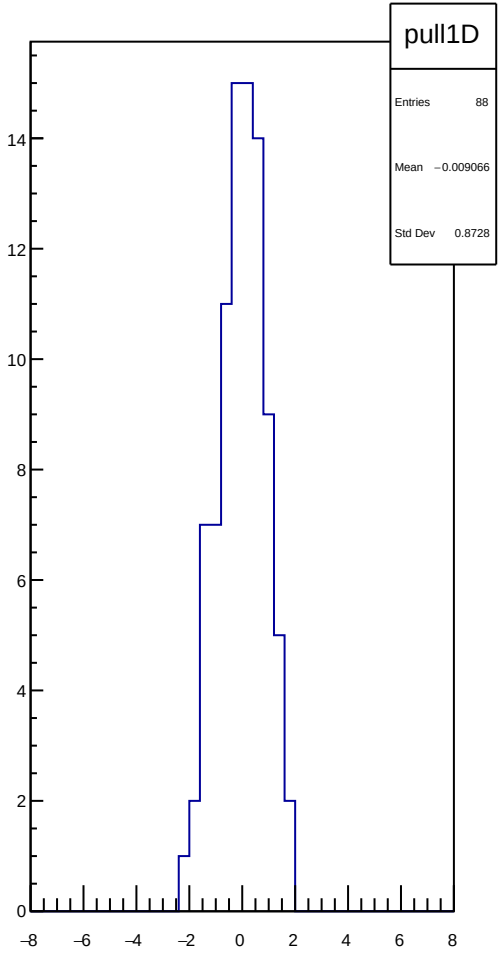

reg_asym_sam_15_dd_rms vs run
χ² / ndf 4778 / 87
p0 106.9 ± 0.0823
115
110
105
100
95

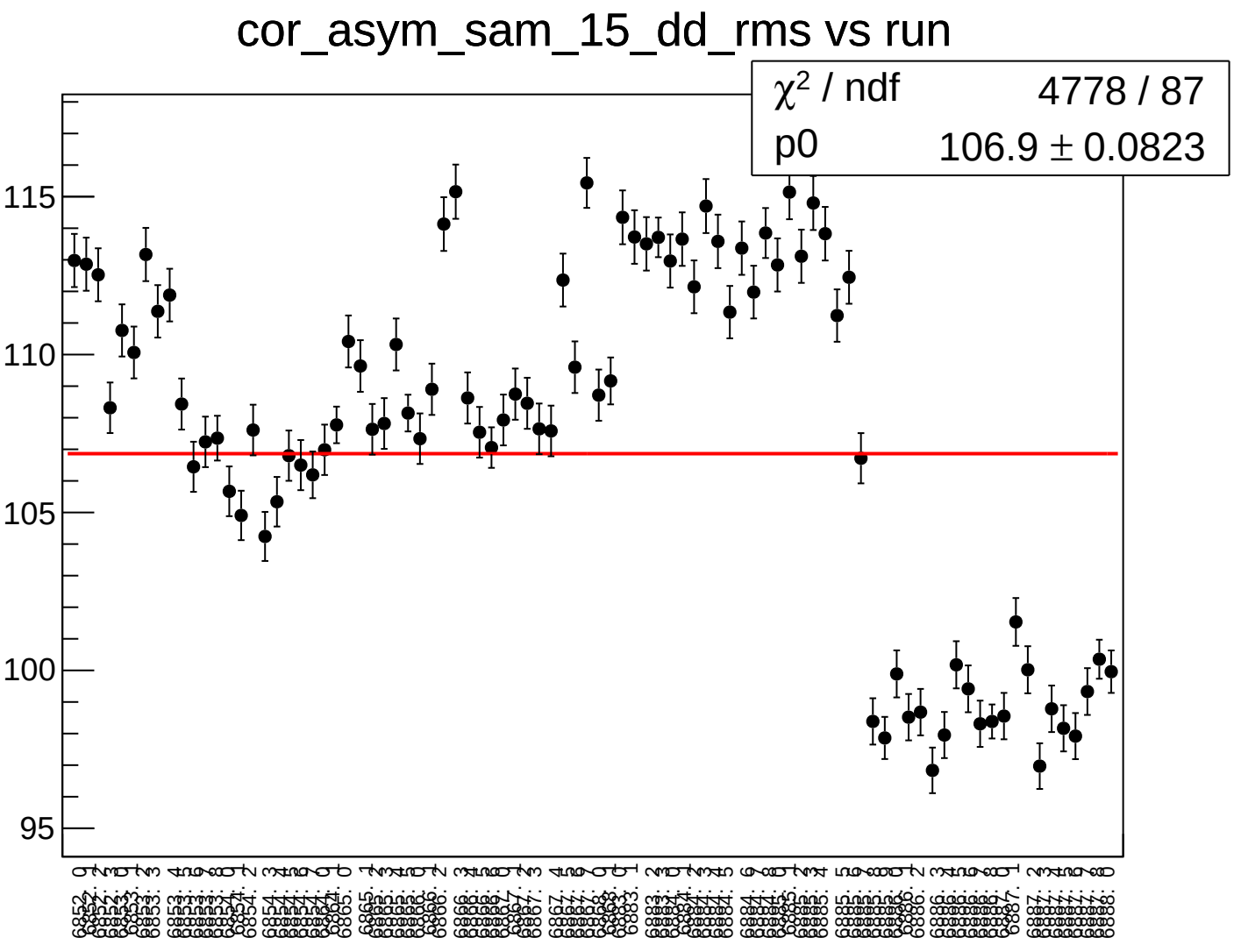

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 74.81 / 87
p0 −107.2 ± 857.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 90.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

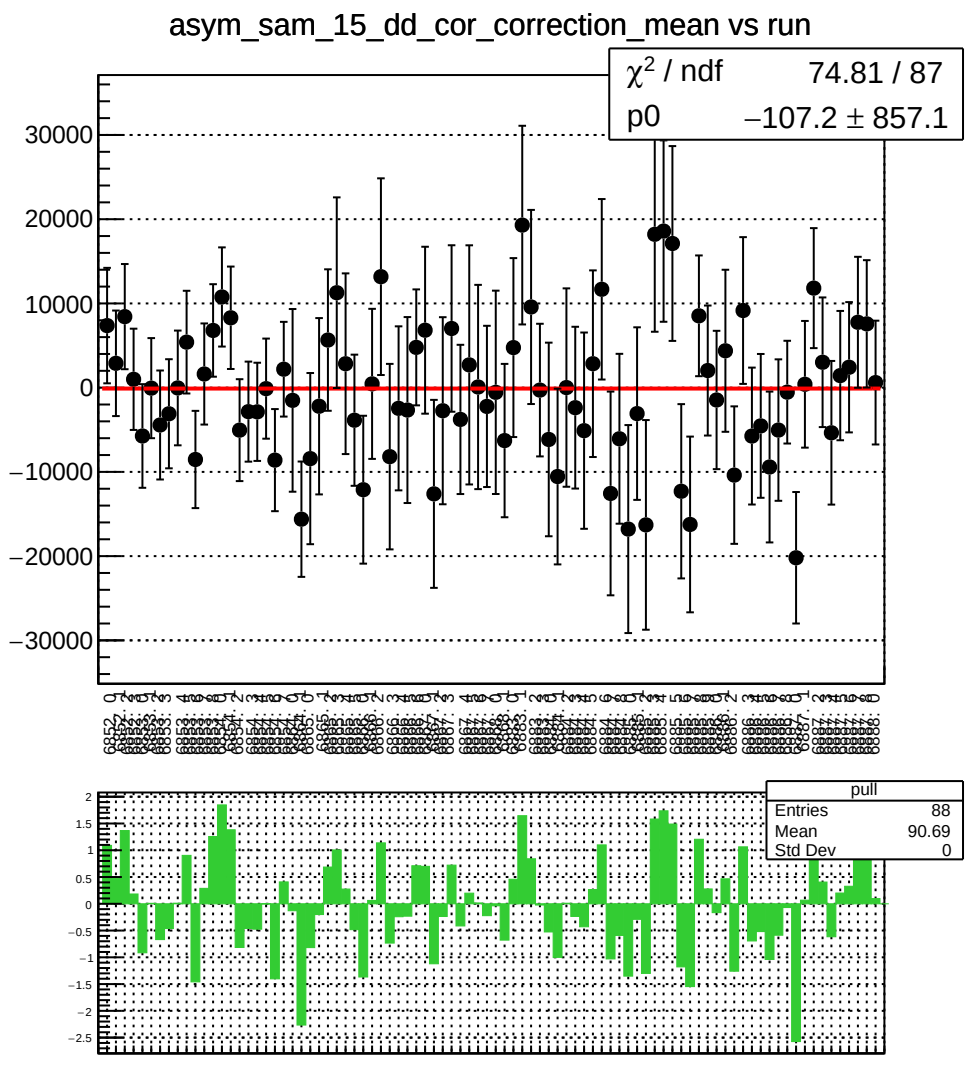

pull1D
Entries 88
Mean −0.01341
Std Dev 0.9219
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

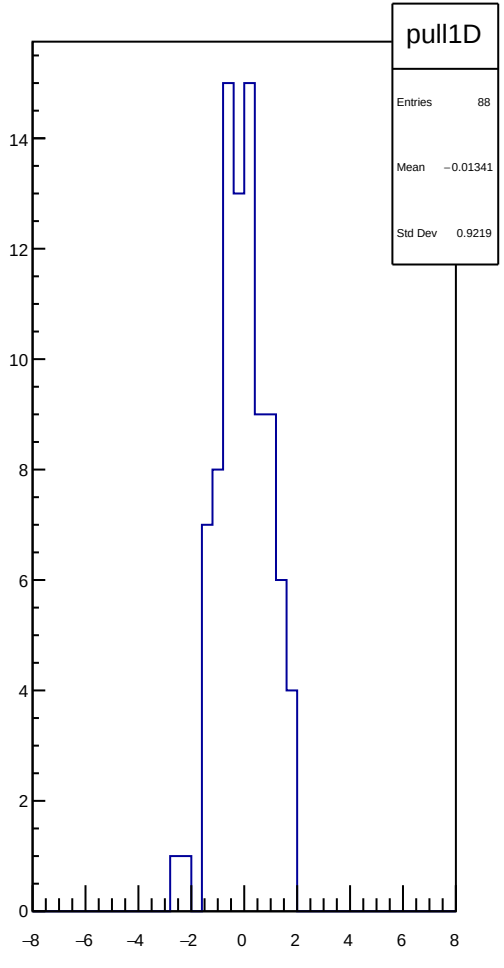

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 9.864e+04 / 87
p0 764.8 ± 0.6061
1400
1300
1200
1100
1000
900
800
700
600
500

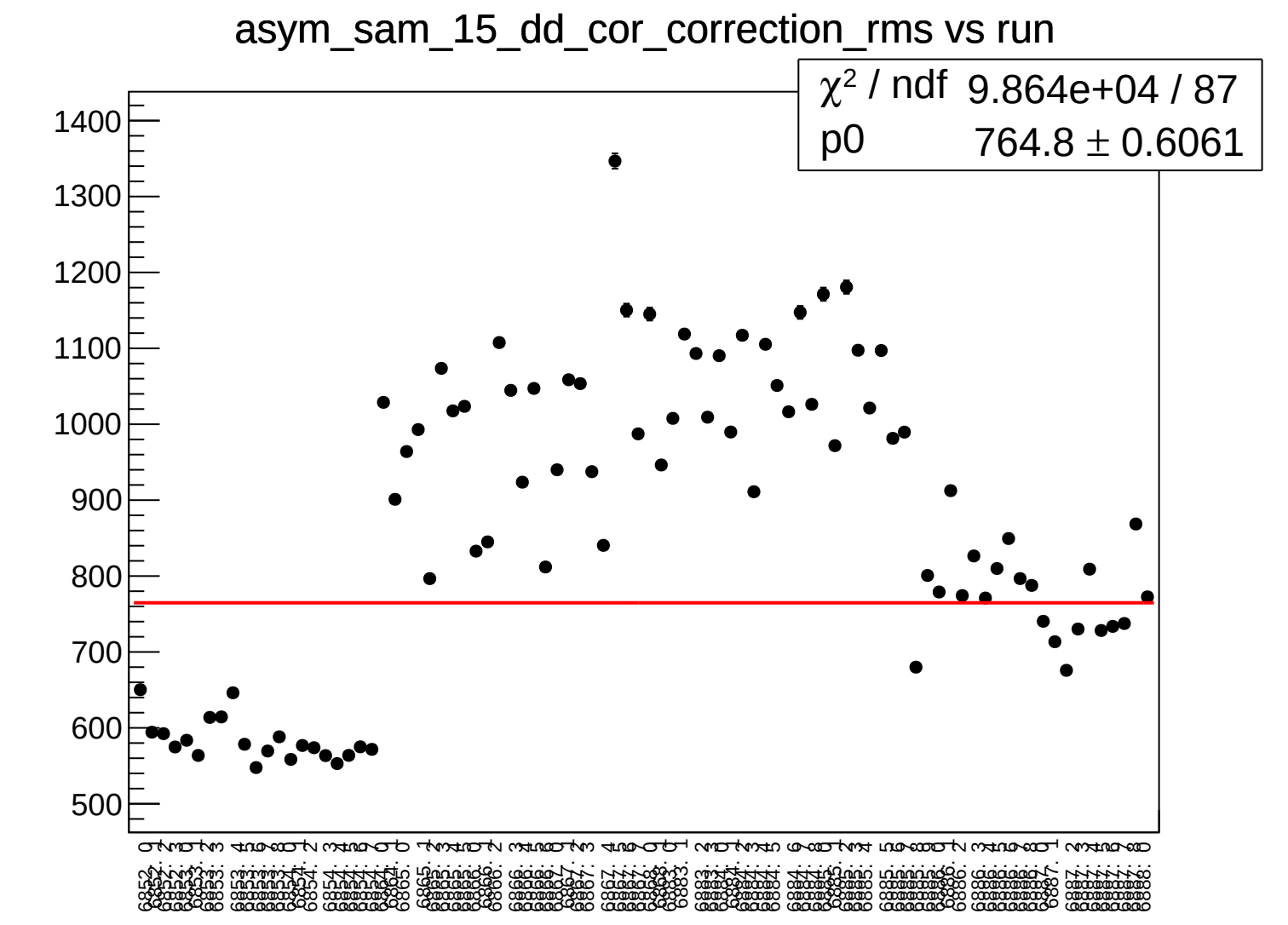

cor_asym_sam_15_dd_mean vs run
χ² / ndf 67.04 / 87
p0 −164 ± 116.4
pull
Entries 88
Mean −138.6
Std Dev 0

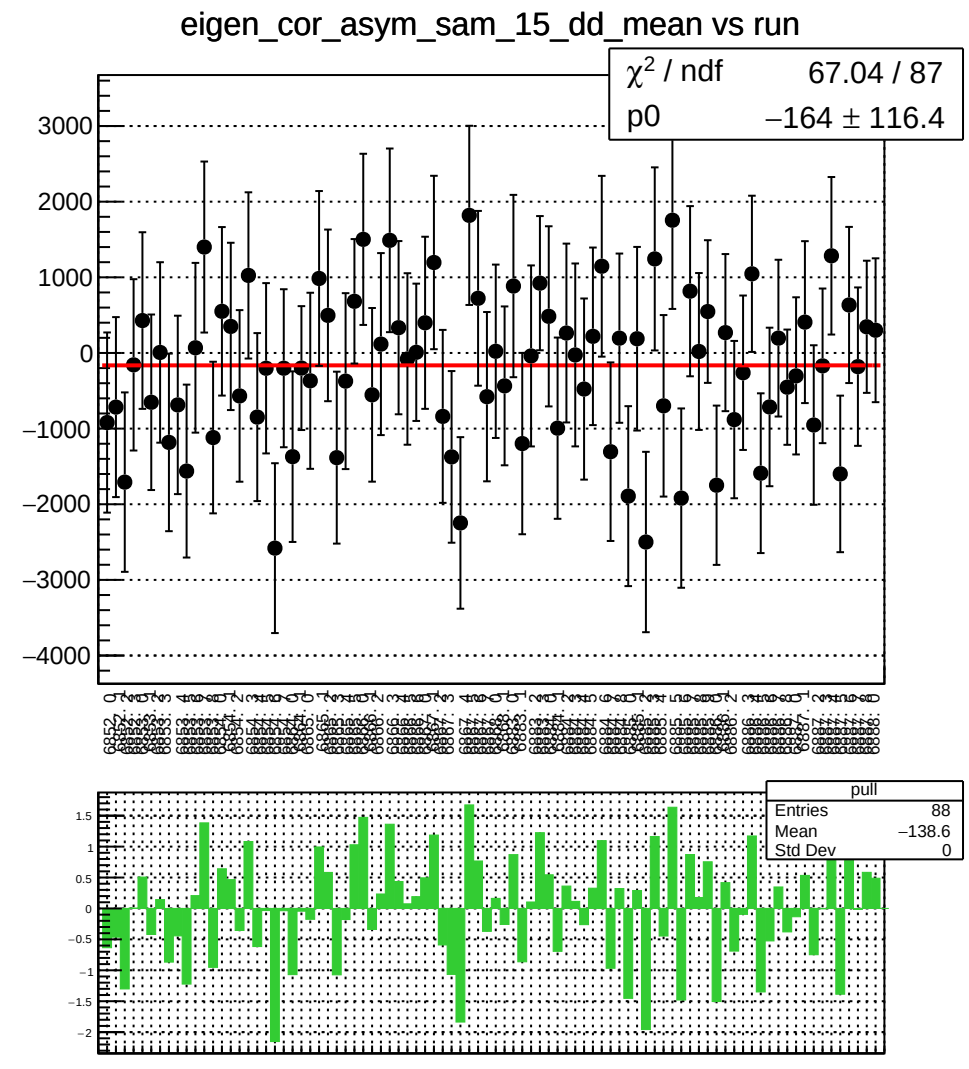

pull1D
Entries 88
Mean −0.009066
Std Dev 0.8728

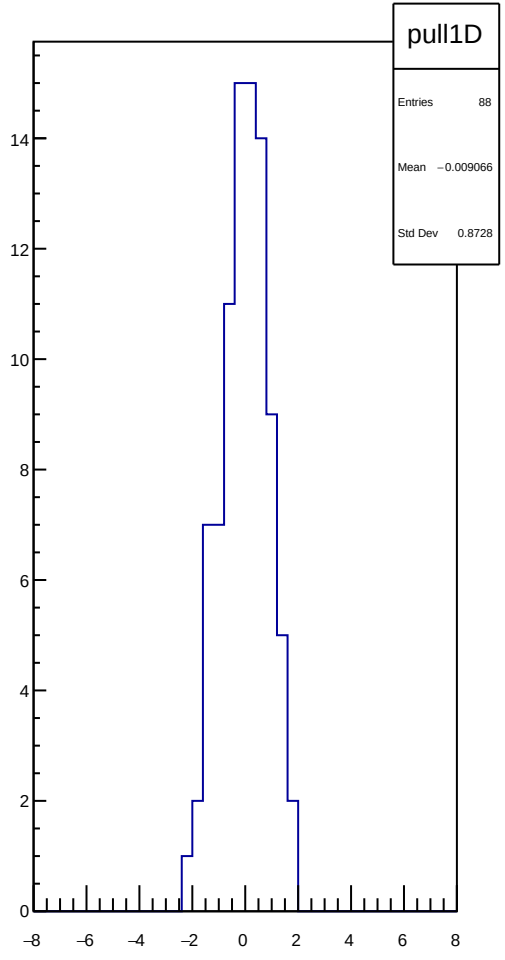

cor_asym_sam_15_dd_rms vs run
χ² / ndf 4778 / 87
p0 106.9 ± 0.0823
115
110
105
100
95


asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 74.81 / 87
p0 −107.2 ± 857.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 90.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 88
Mean −0.01341
Std Dev 0.9219
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 9.864e+04 / 87
p0 764.8 ± 0.6061
1400
1300
1200
1100
1000
900
800
700
600
500


eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 67.04 / 87
p0 −164 ± 116.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean −138.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 88
Mean −0.009066
Std Dev 0.8728
14
12
10
8
6
4
2
0
−8
−6
−4
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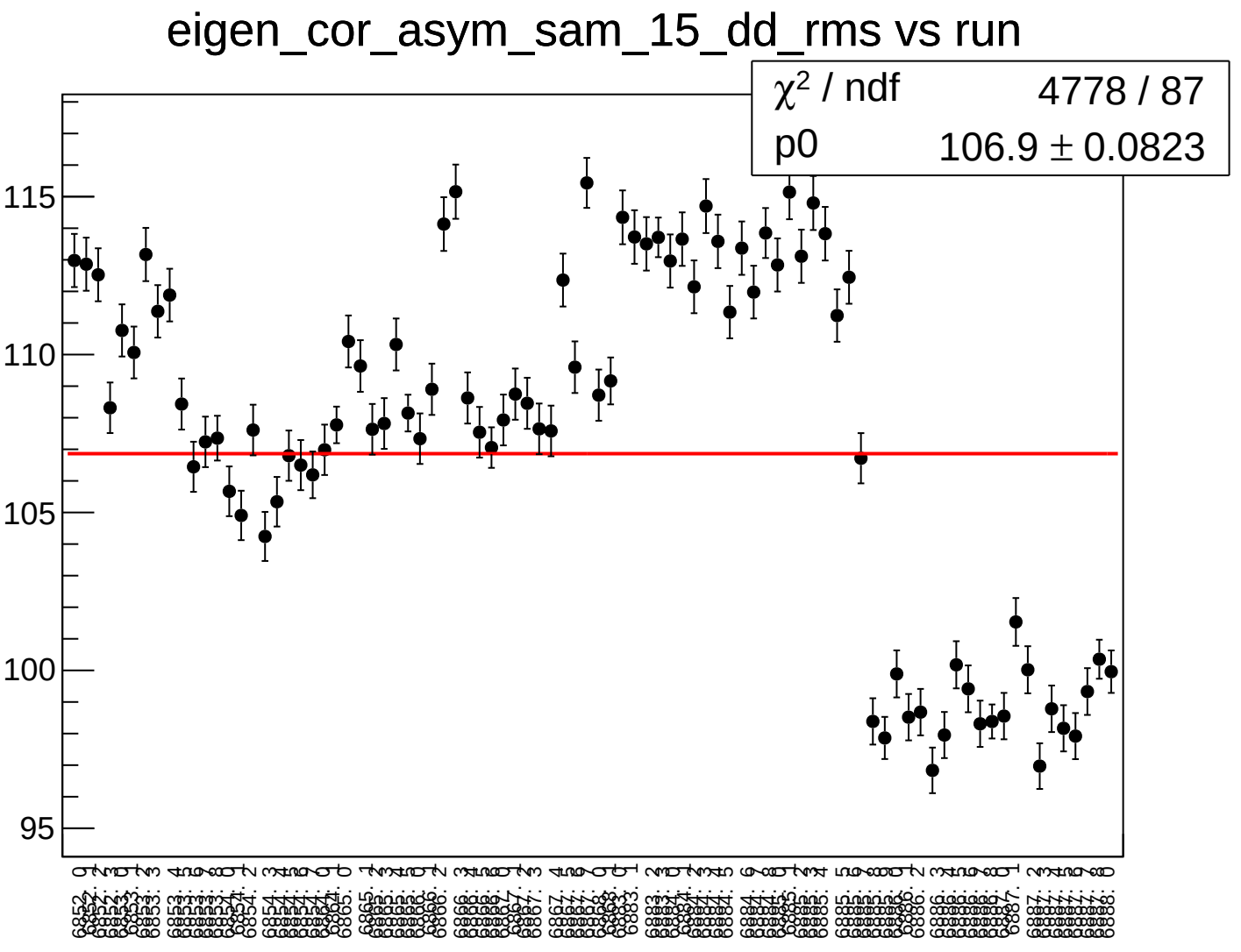
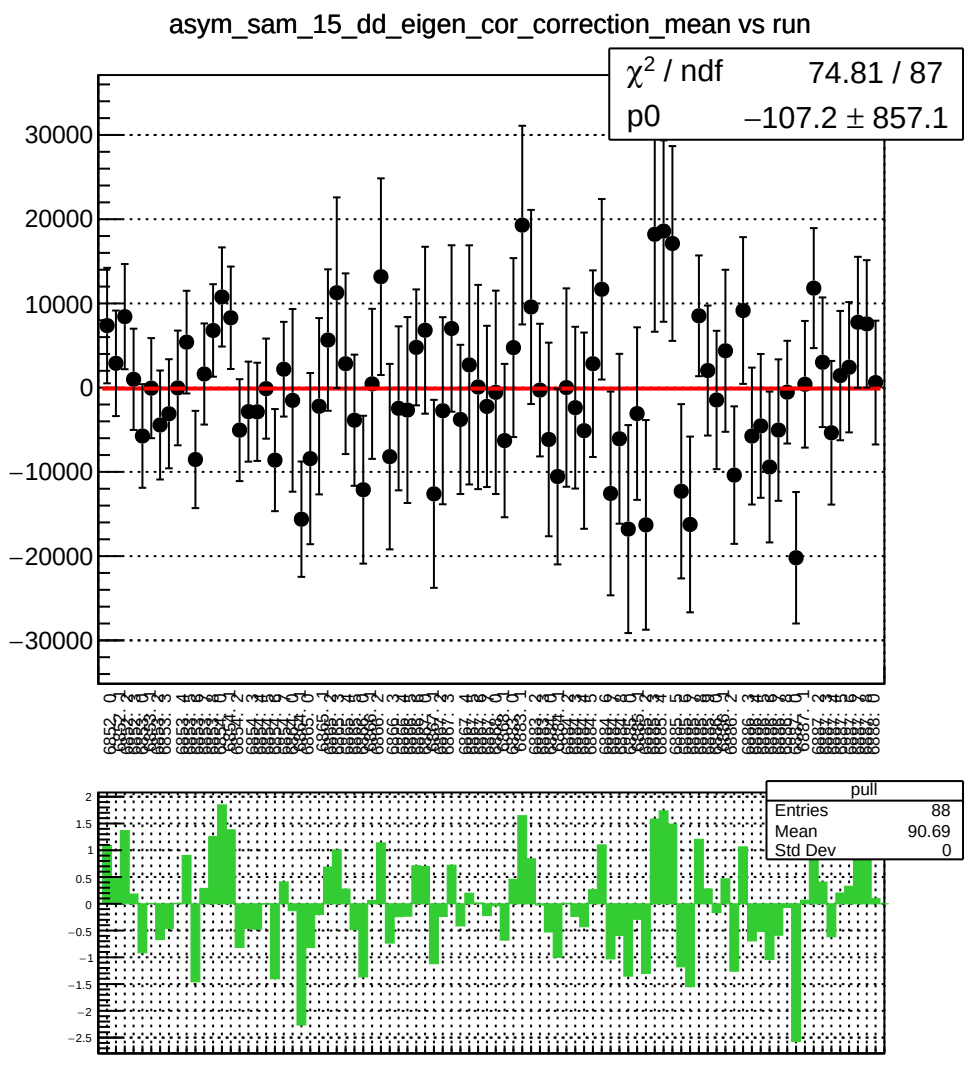
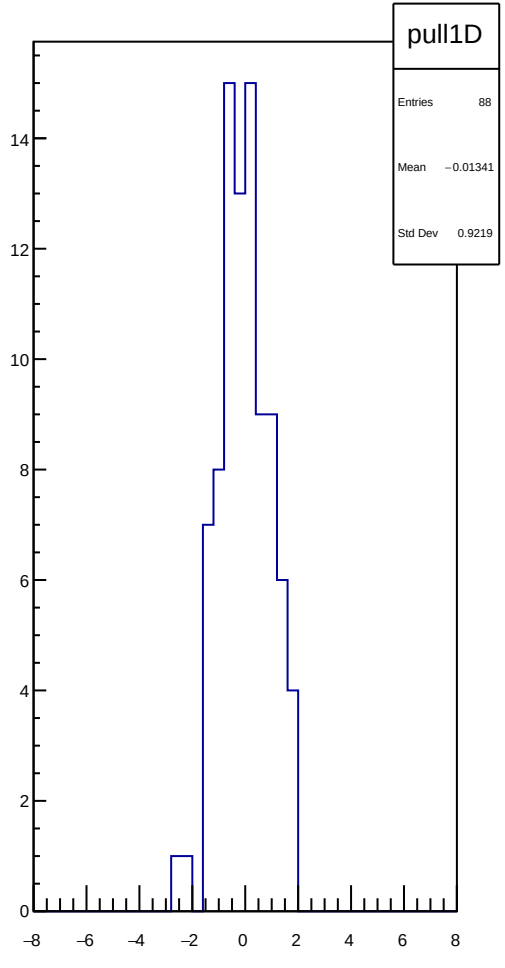
0
2
4
6
8


eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 4778 / 87
p0 106.9 ± 0.0823
115
110
105
100
95


asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.81 / 87
p0 −107.2 ± 857.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 90.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 88
Mean −0.01341
Std Dev 0.9219
14
12
10
8
6
4
2
0
−8
−6
−4
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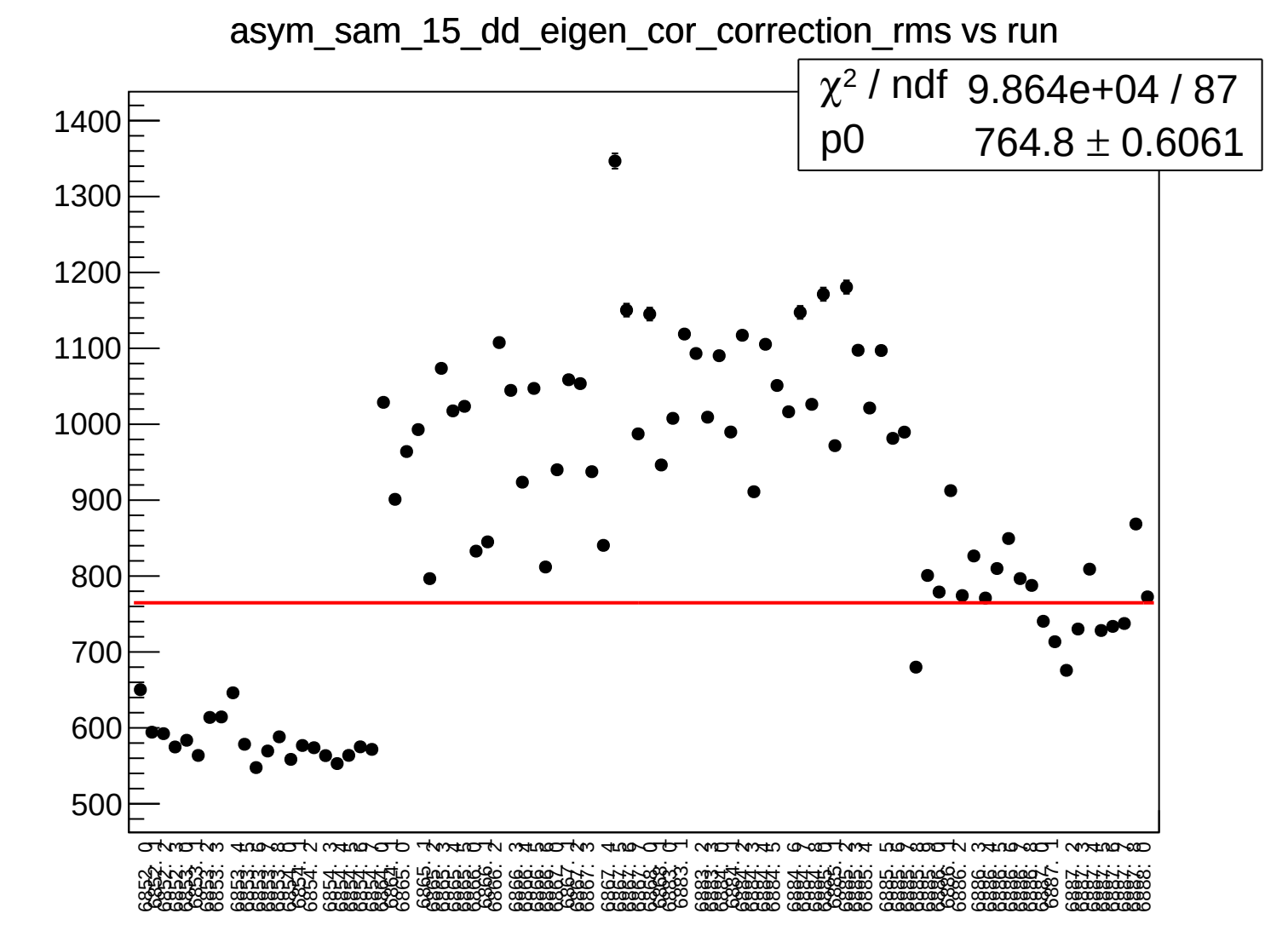
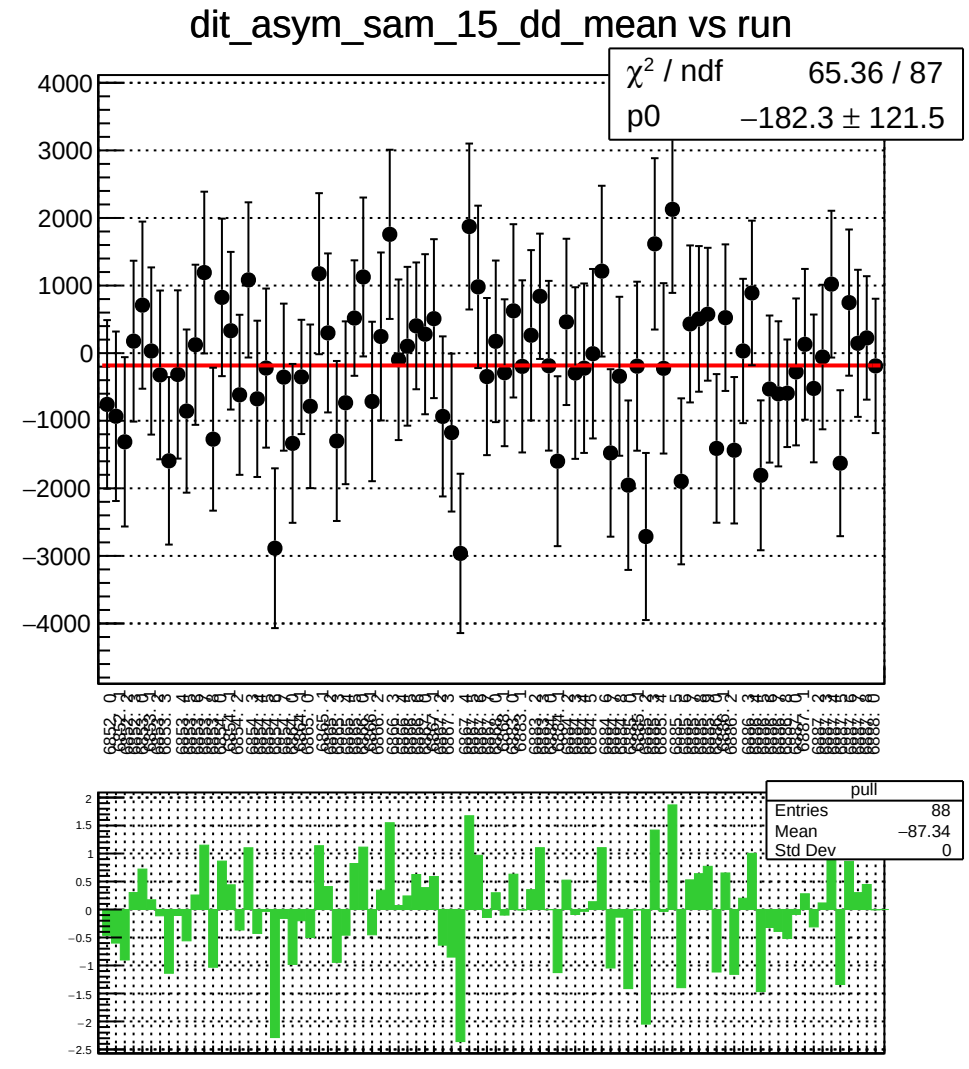
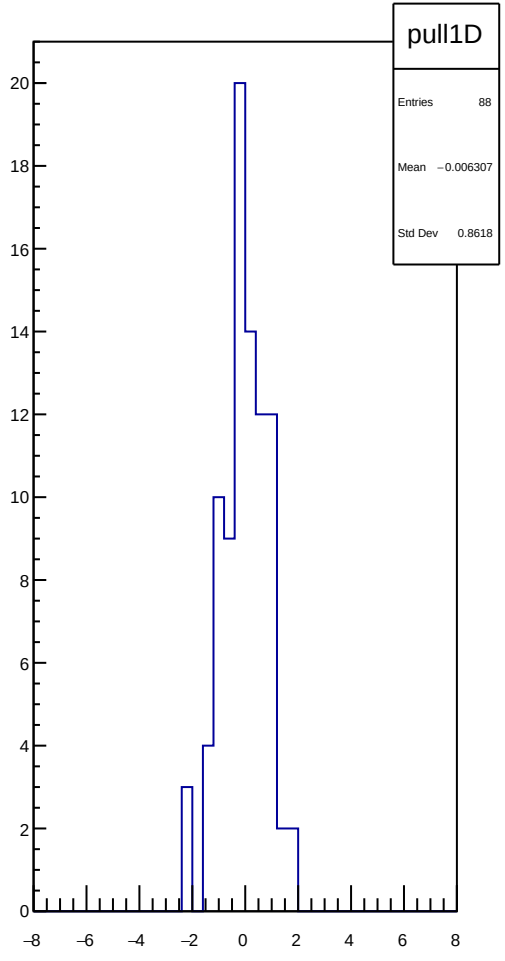
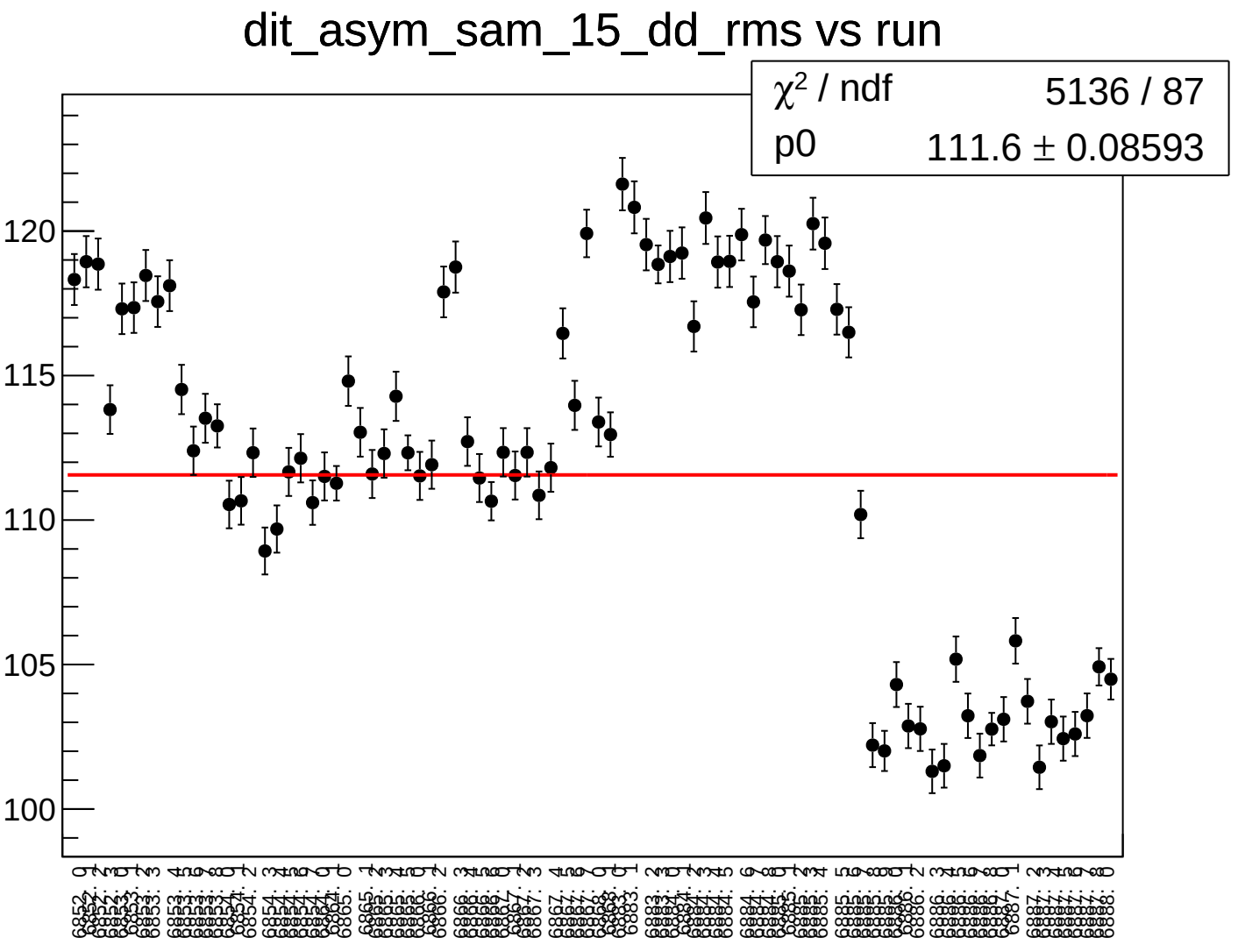
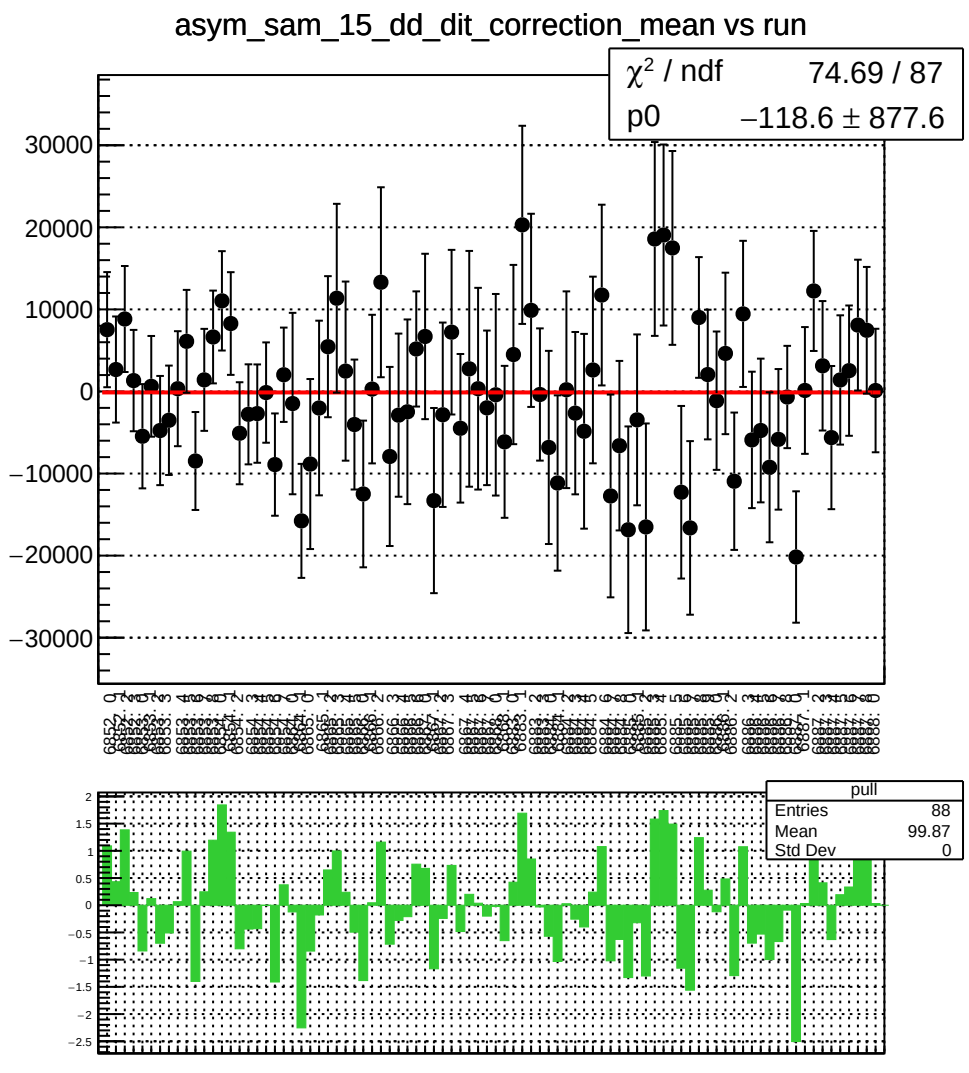
2
4
6
8

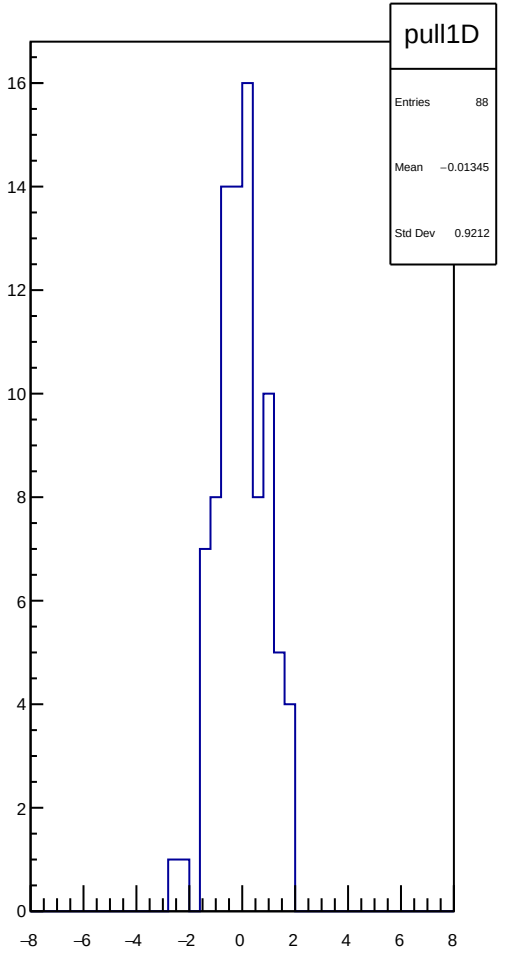

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 9.864e+04 / 87
p0 764.8 ± 0.6061
1400
1300
1200
1100
1000
900
800
700
600
500

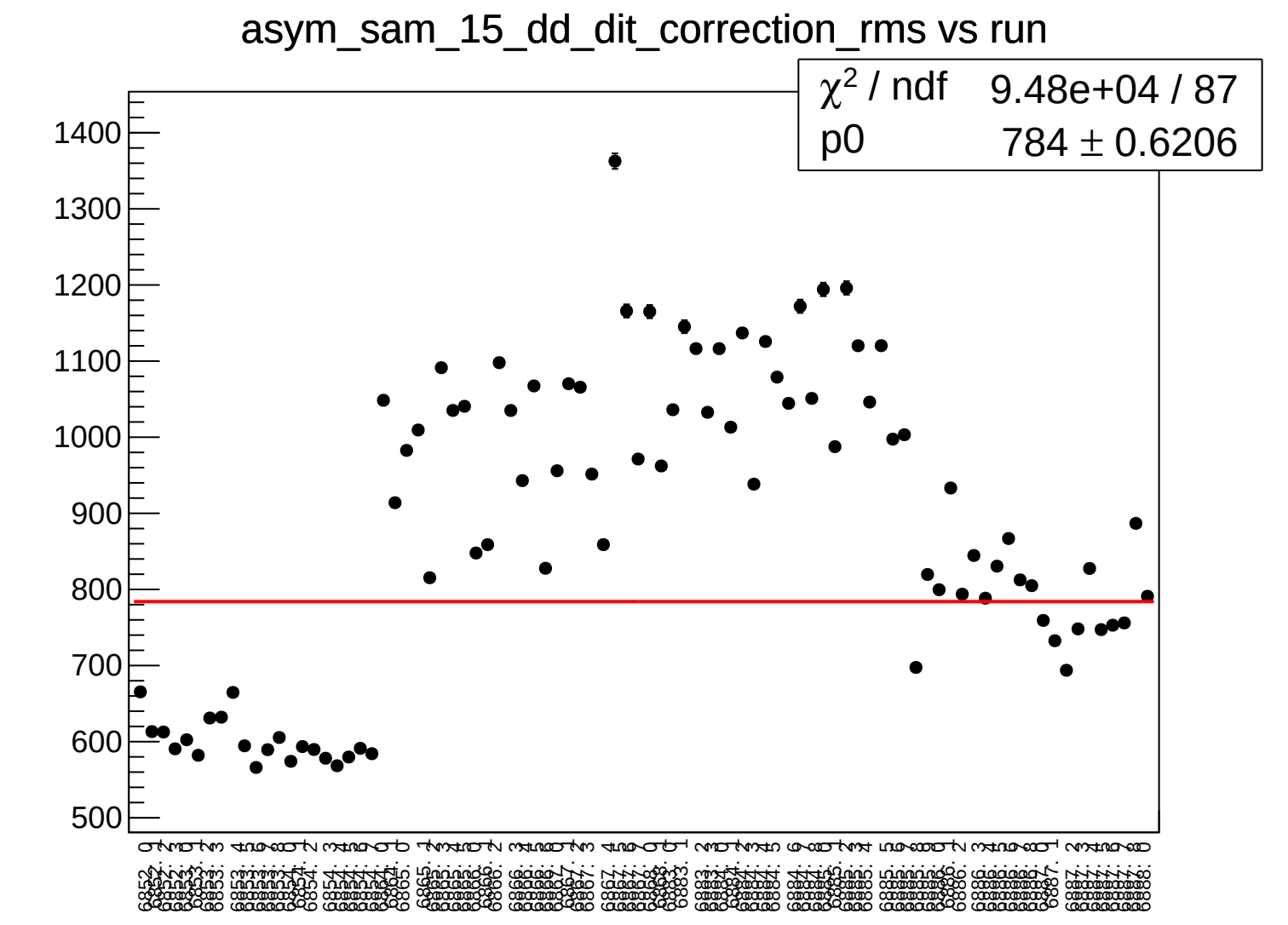

dit_asym_sam_15_dd_mean vs run
χ² / ndf 65.36 / 87
p0 −182.3 ± 121.5
pull
Entries 88
Mean −87.34
Std Dev 0

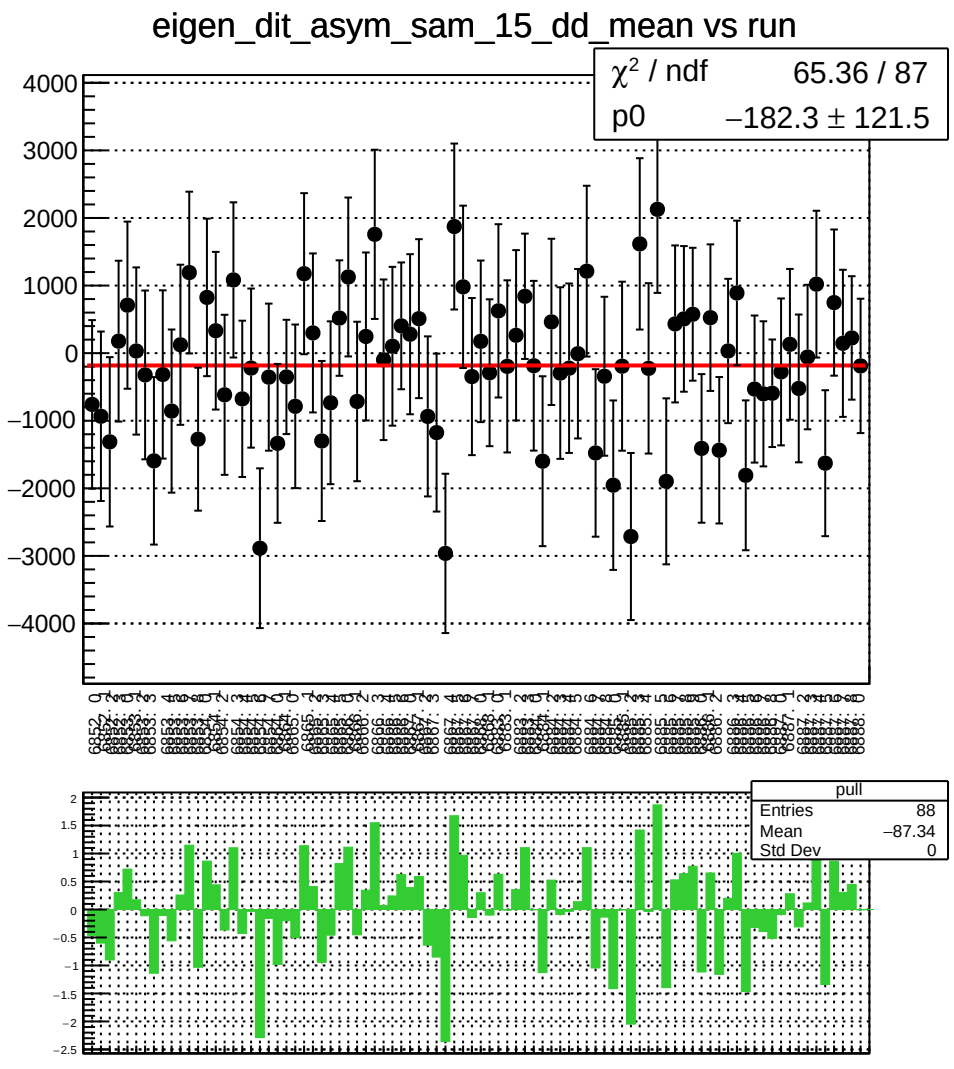

pull1D
Entries 88
Mean −0.006307
Std Dev 0.8618

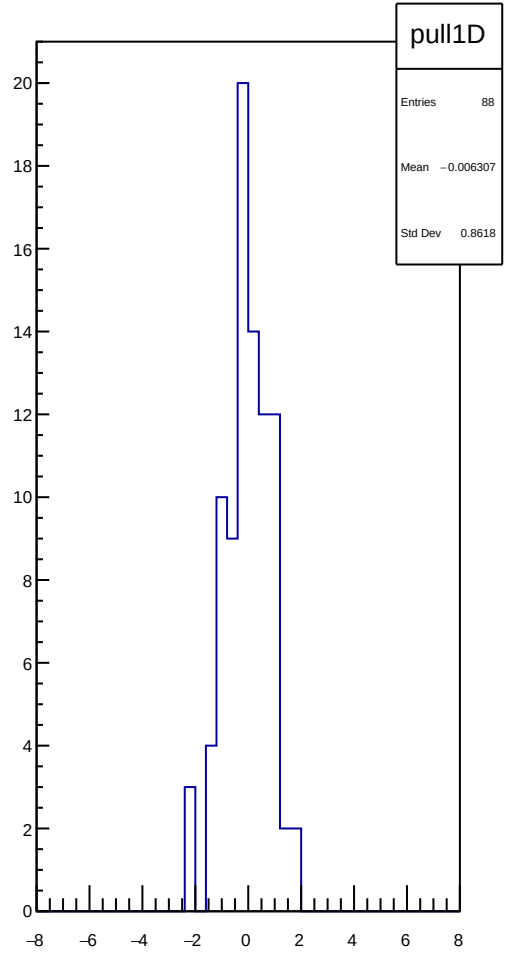

dit_asym_sam_15_dd_rms vs run
χ² / ndf 5136 / 87
p0 111.6 ± 0.08593
120
115
110
105
100

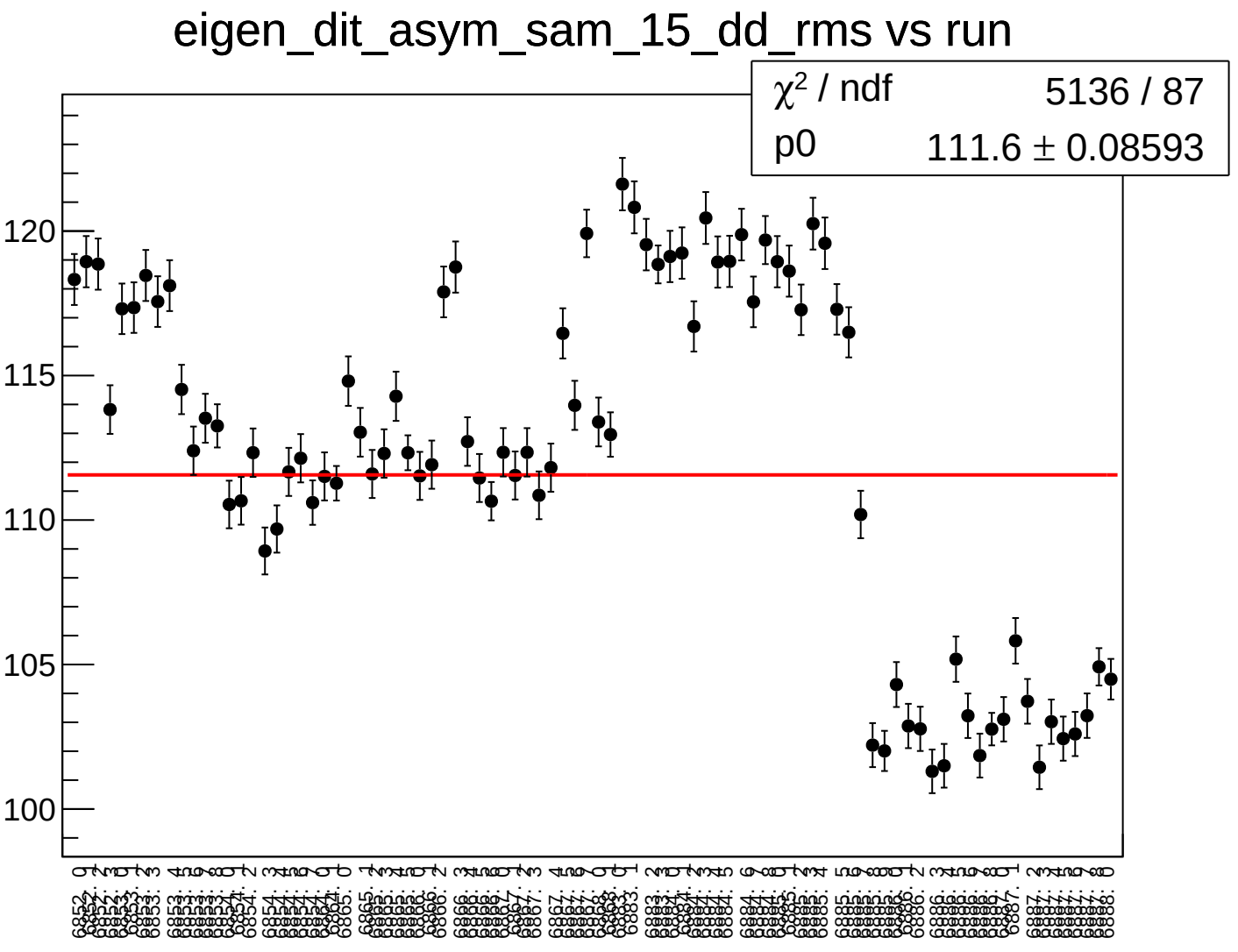

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 74.69 / 87
p0 −118.6 ± 877.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 99.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

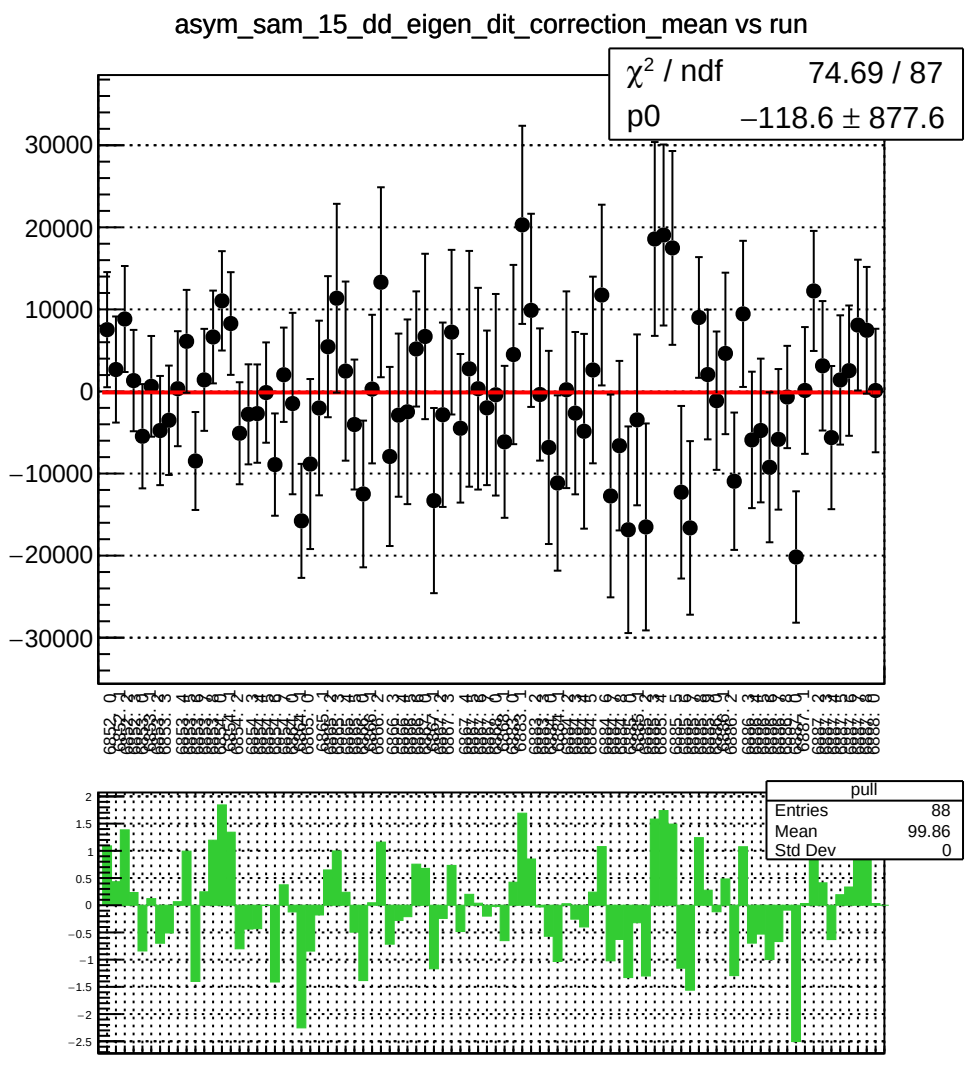

pull1D
Entries 88
Mean −0.01345
Std Dev 0.9212
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

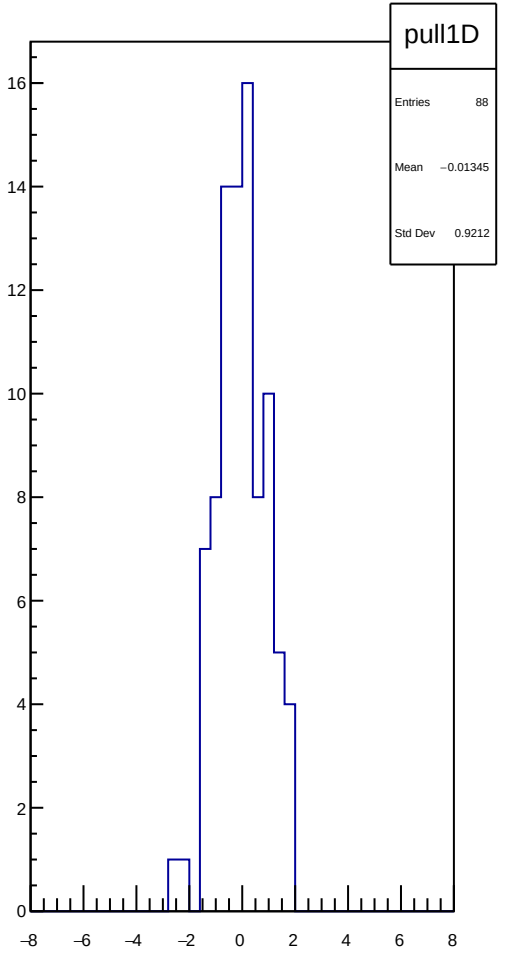

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 9.48e+04 / 87
p0 784 ± 0.6206
1400
1300
1200
1100
1000
900
800
700
600
500

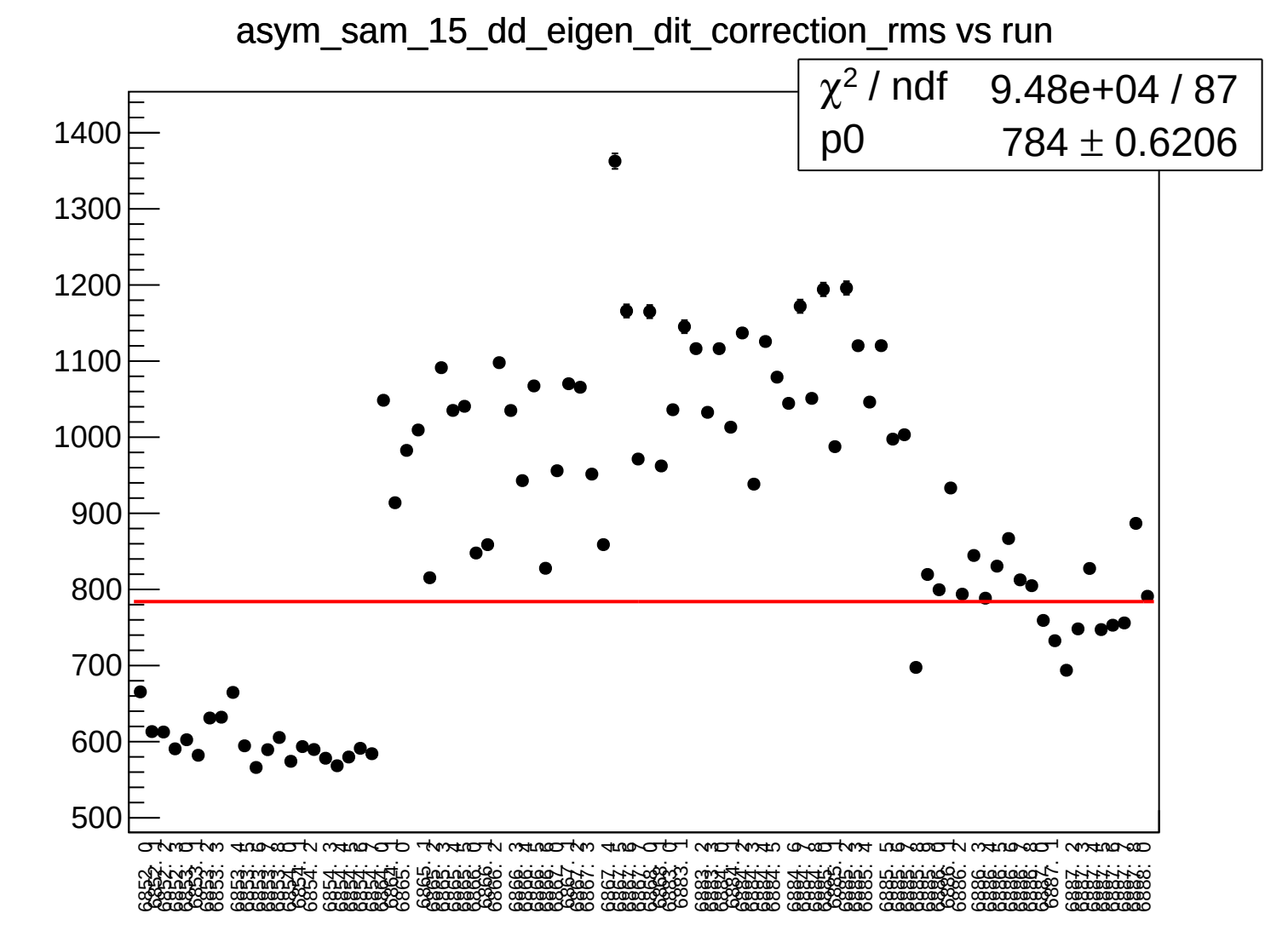

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 65.36 / 87
p0 −182.3 ± 121.5
pull
Entries 88
Mean −87.34
Std Dev 0

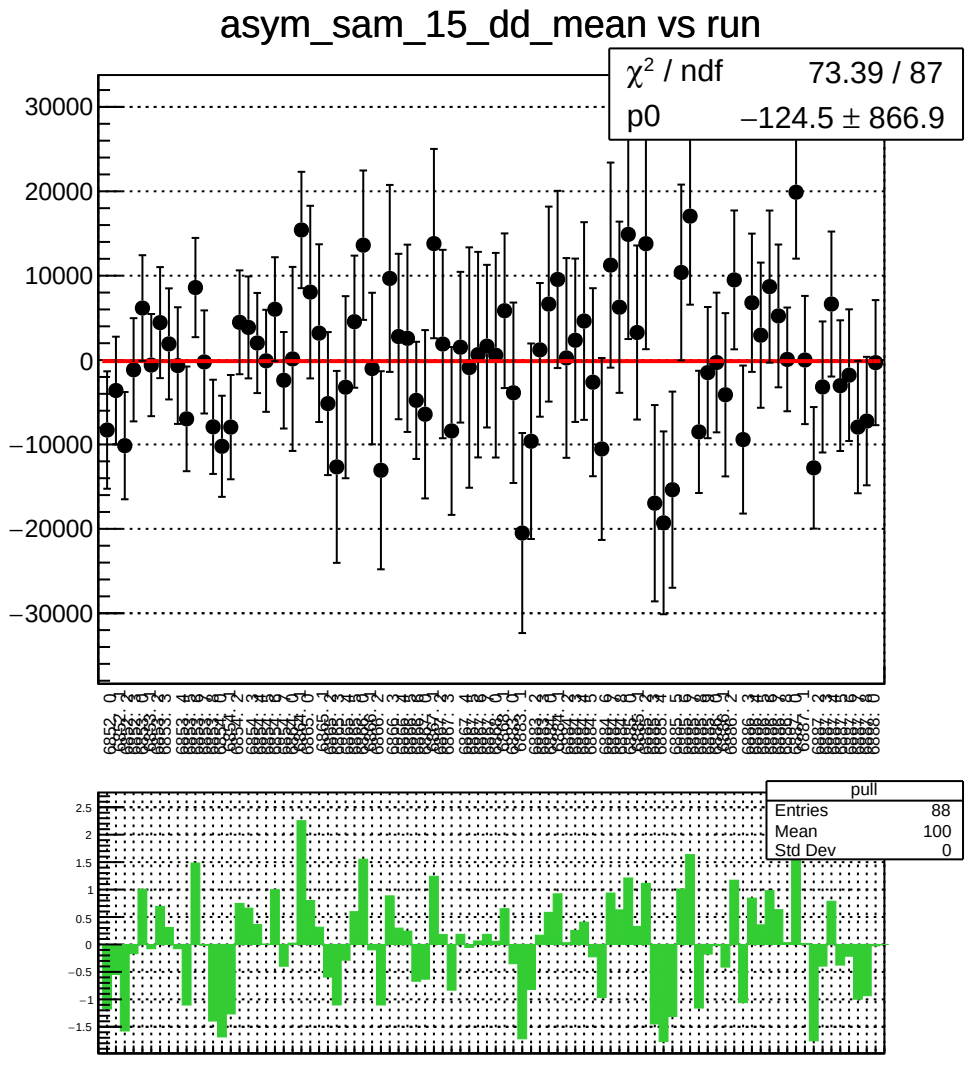

pull1D
Entries 88
Mean −0.006307
Std Dev 0.8618

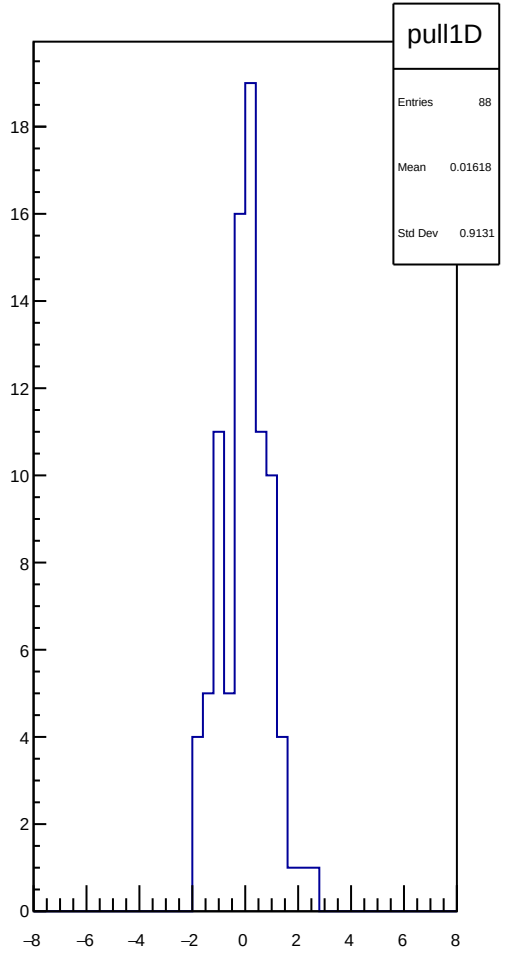

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 5136 / 87
p0 111.6 ± 0.08593
120
115
110
105
100

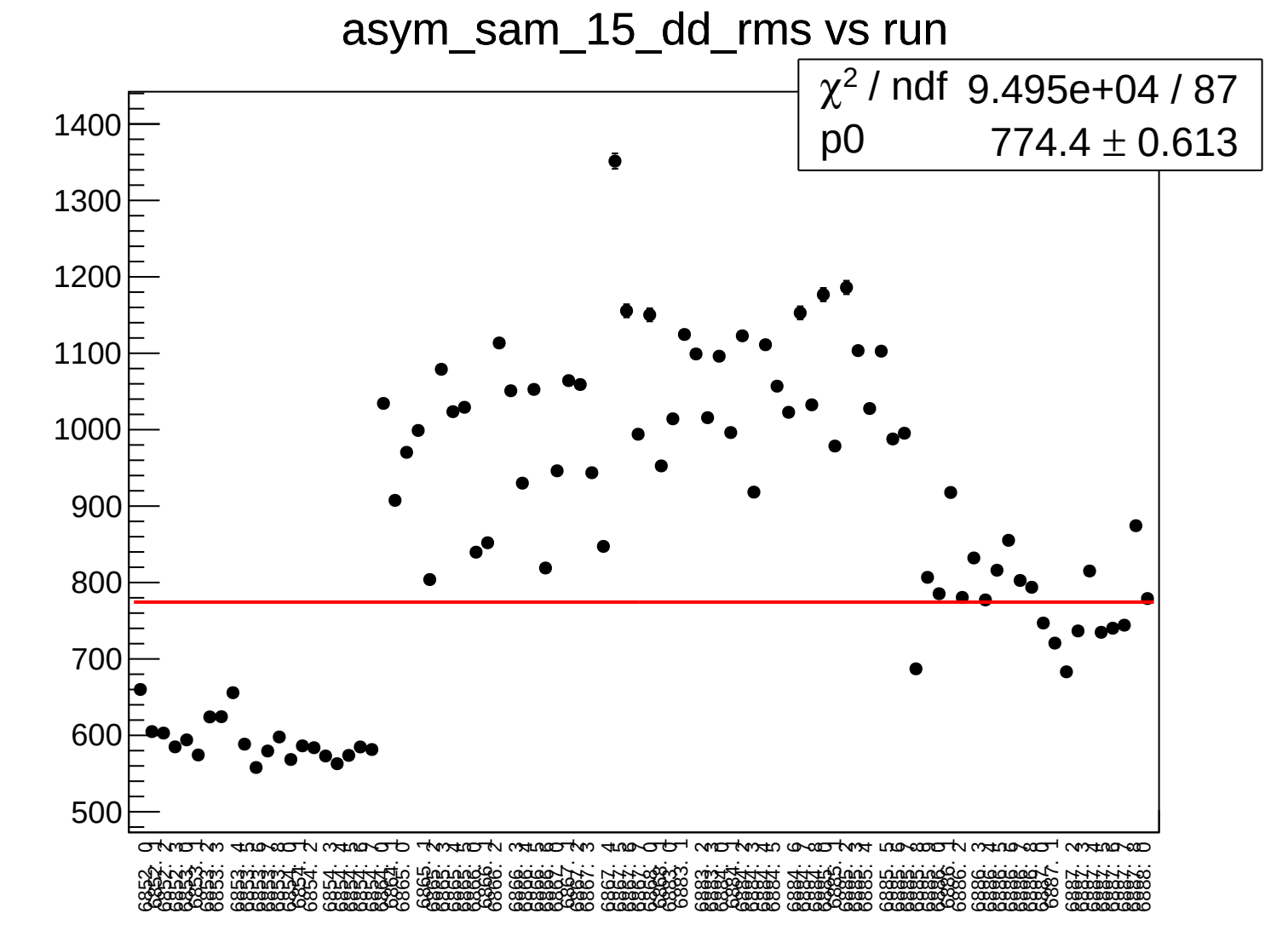

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.69 / 87
p0 −118.6 ± 877.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 99.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

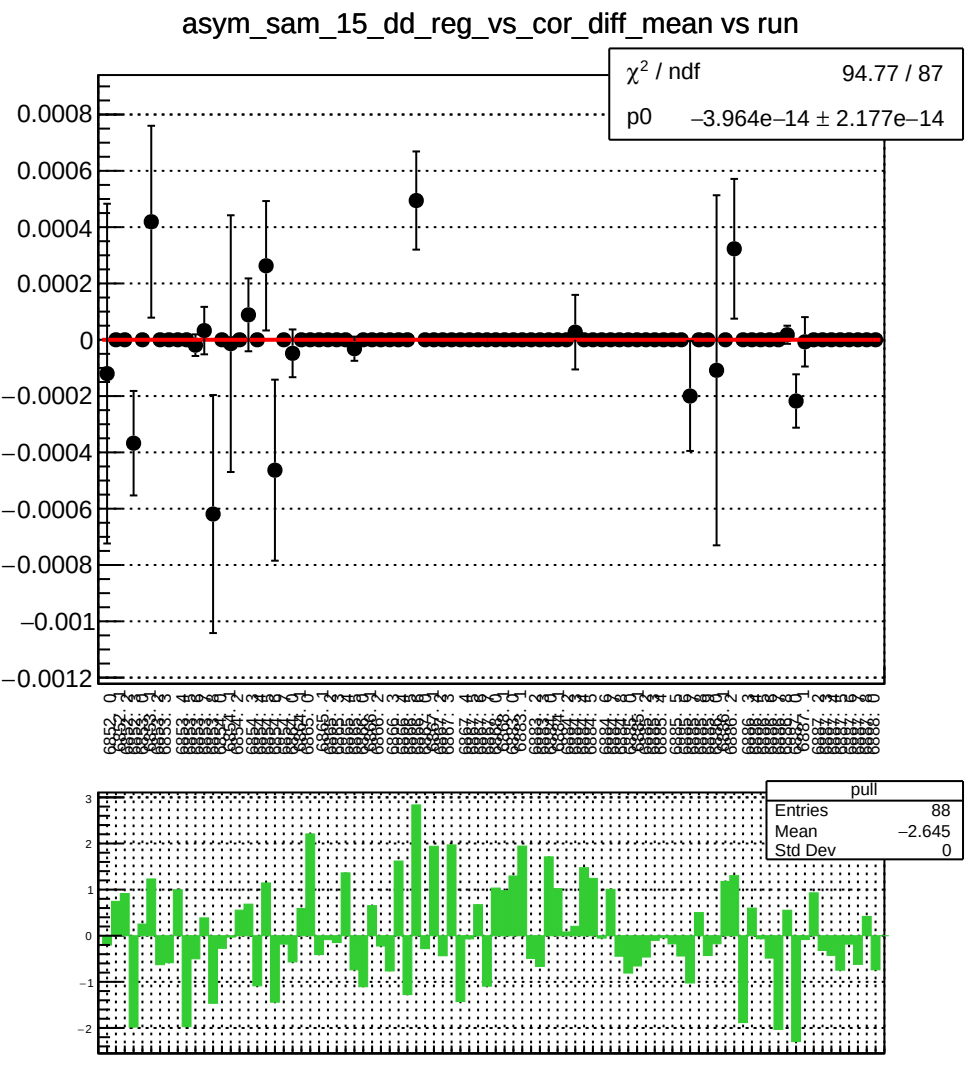

pull1D
Entries 88
Mean −0.01345
Std Dev 0.9212
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

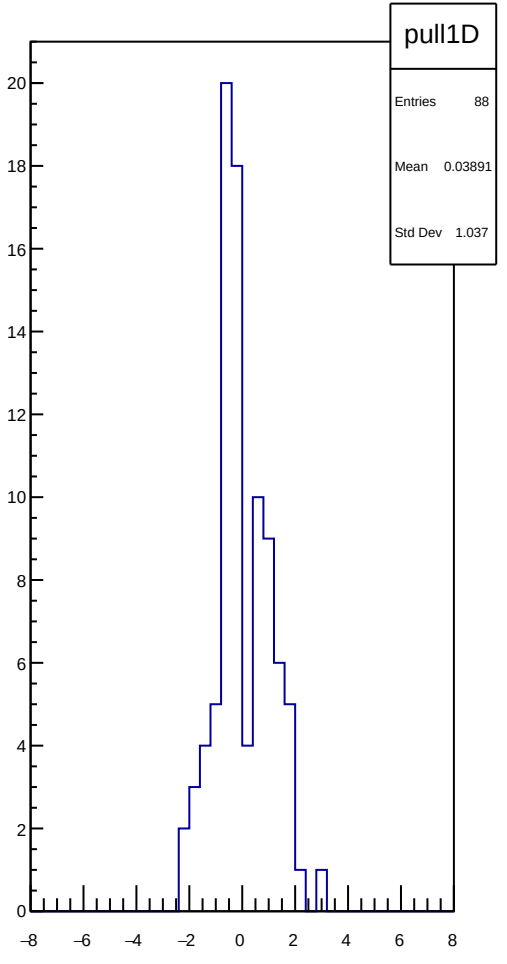

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 9.48e+04 / 87
p0 784 ± 0.6206
1400
1300
1200
1100
1000
900
800
700
600
500

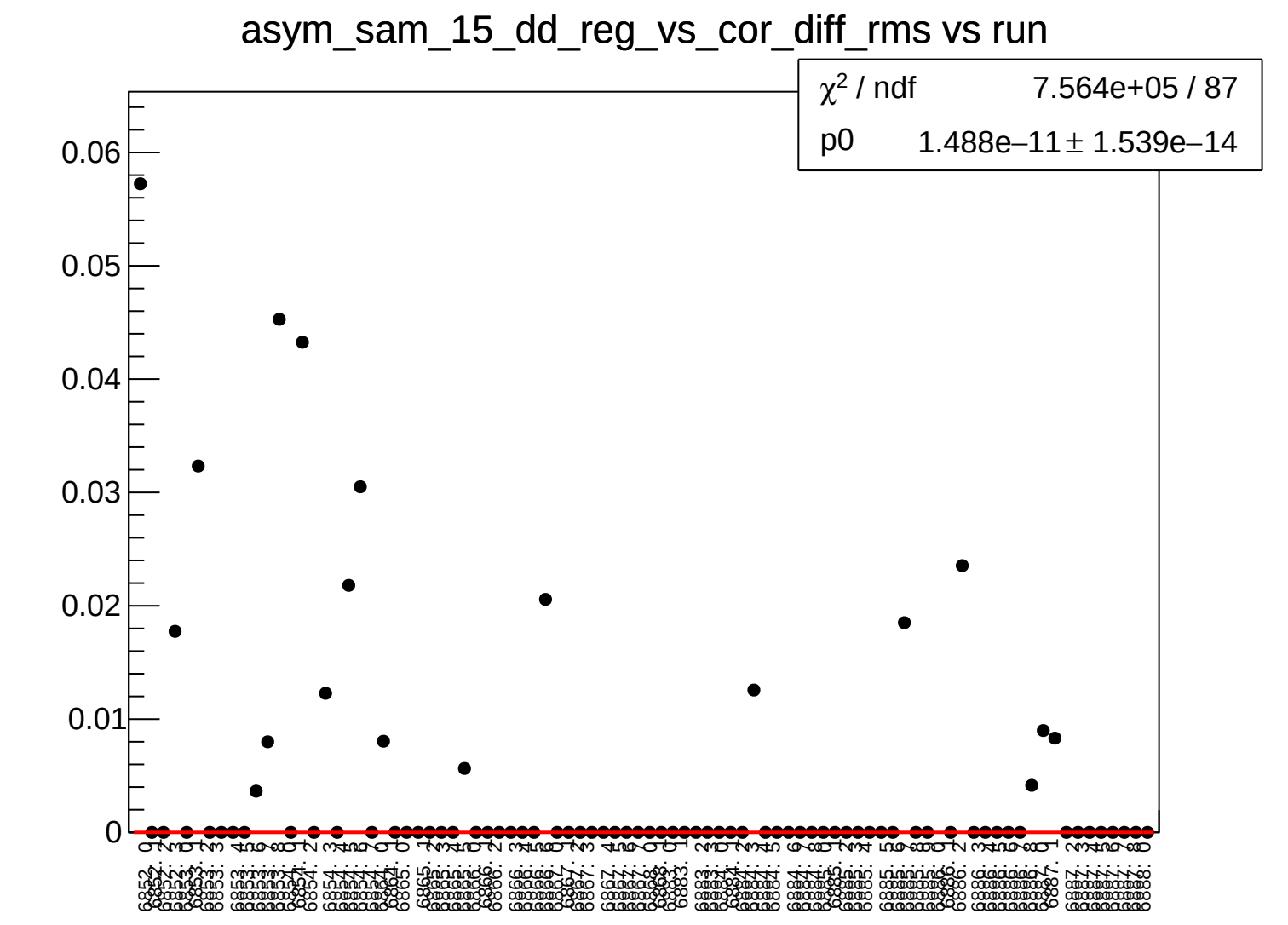

asym_sam_15_dd_mean vs run
χ² / ndf 73.39 / 87
p0 −124.5 ± 866.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 100
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

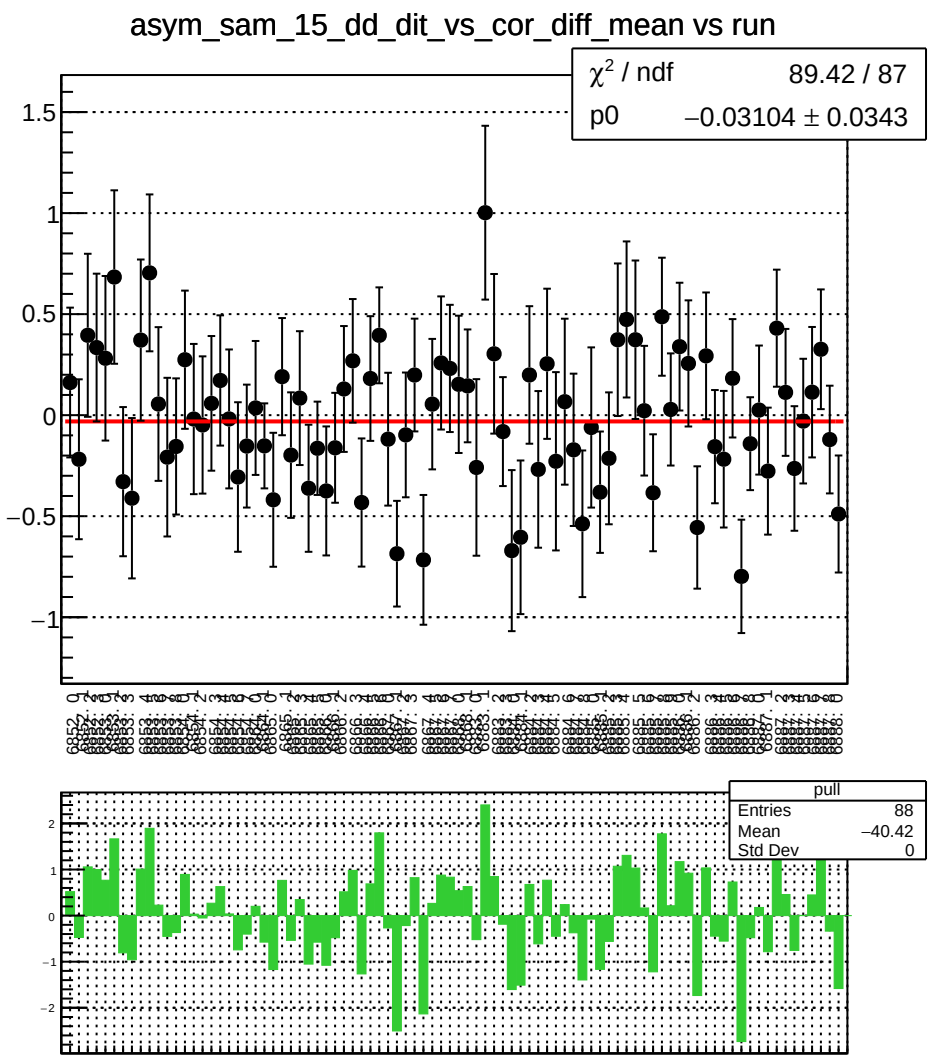

pull1D
Entries 88
Mean 0.01618
Std Dev 0.9131
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

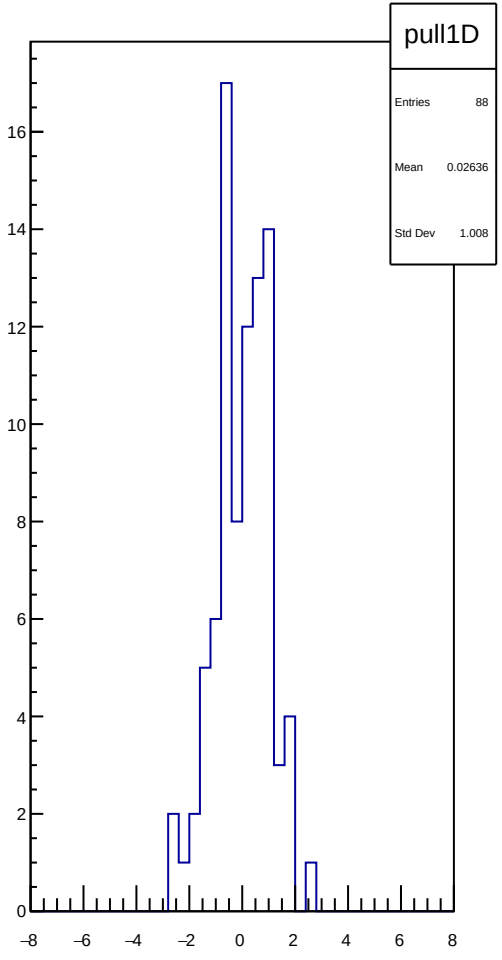

asym_sam_15_dd_rms vs run
χ^2 / ndf 9.495e+04 / 87
p0 774.4 ± 0.613
1400
1300
1200
1100
1000
900
800
700
600
500

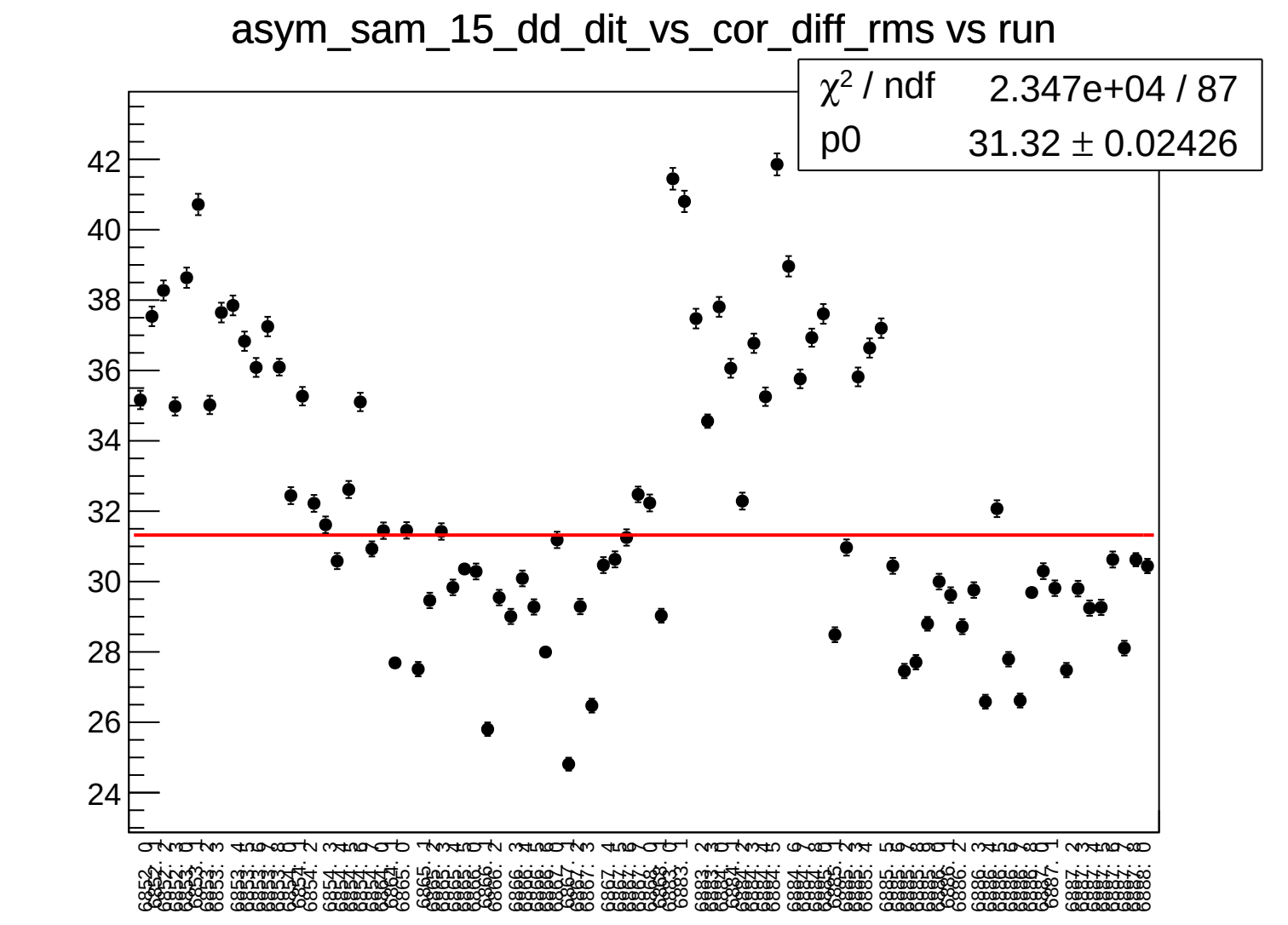

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.77 / 87
p0 −3.964e−14 ± 2.177e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 88
Mean −2.645
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.03891
Std Dev 1.037
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.564e+05 / 87
p0 1.488e−11 ± 1.539e−14
0.06
0.05
0.04
0.03
0.02
0.01
0


asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.42 / 87
p0 −0.03104 ± 0.0343
pull
Entries 88
Mean −40.42
Std Dev 0


pull1D
Entries 88
Mean 0.02636
Std Dev 1.008


asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.347e+04 / 87
p0 31.32 ± 0.02426
42
40
38
36
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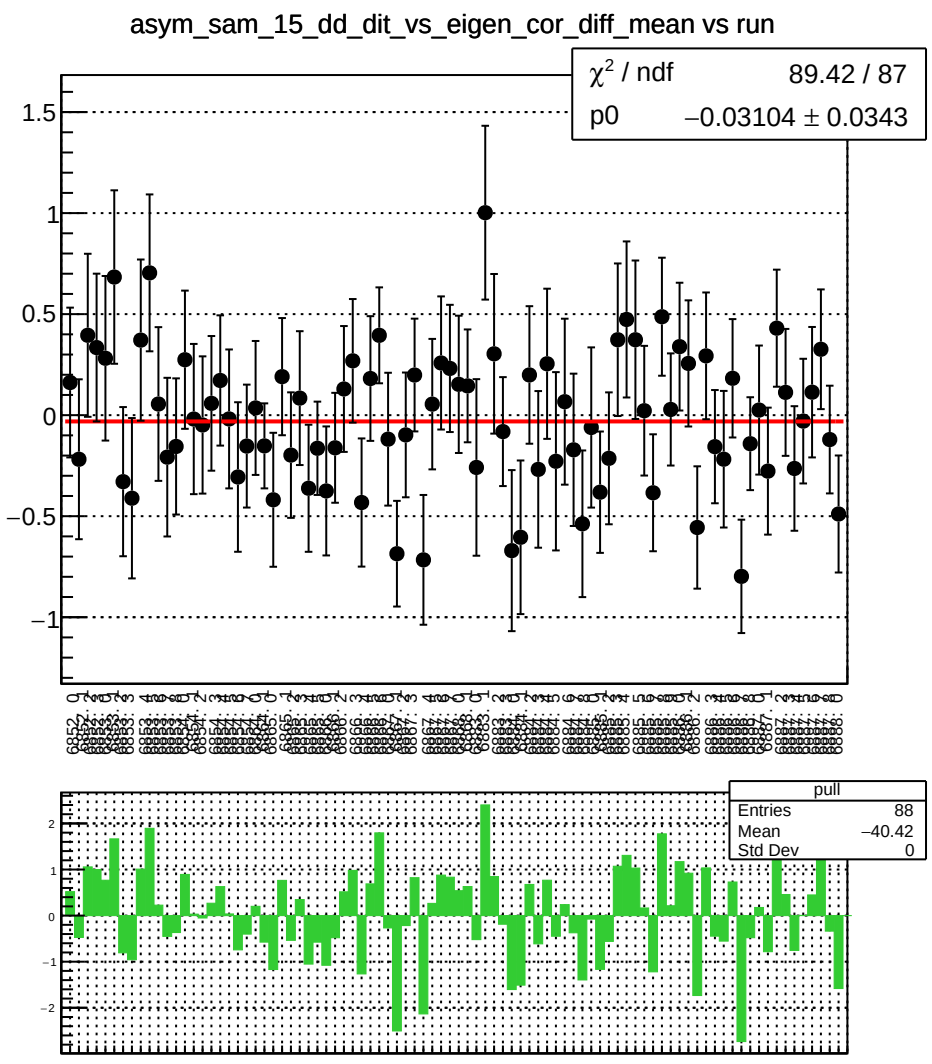
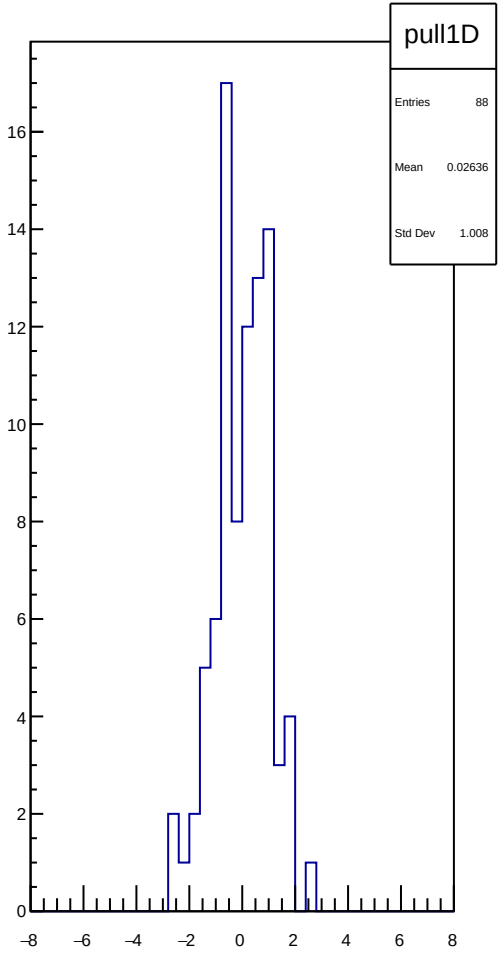
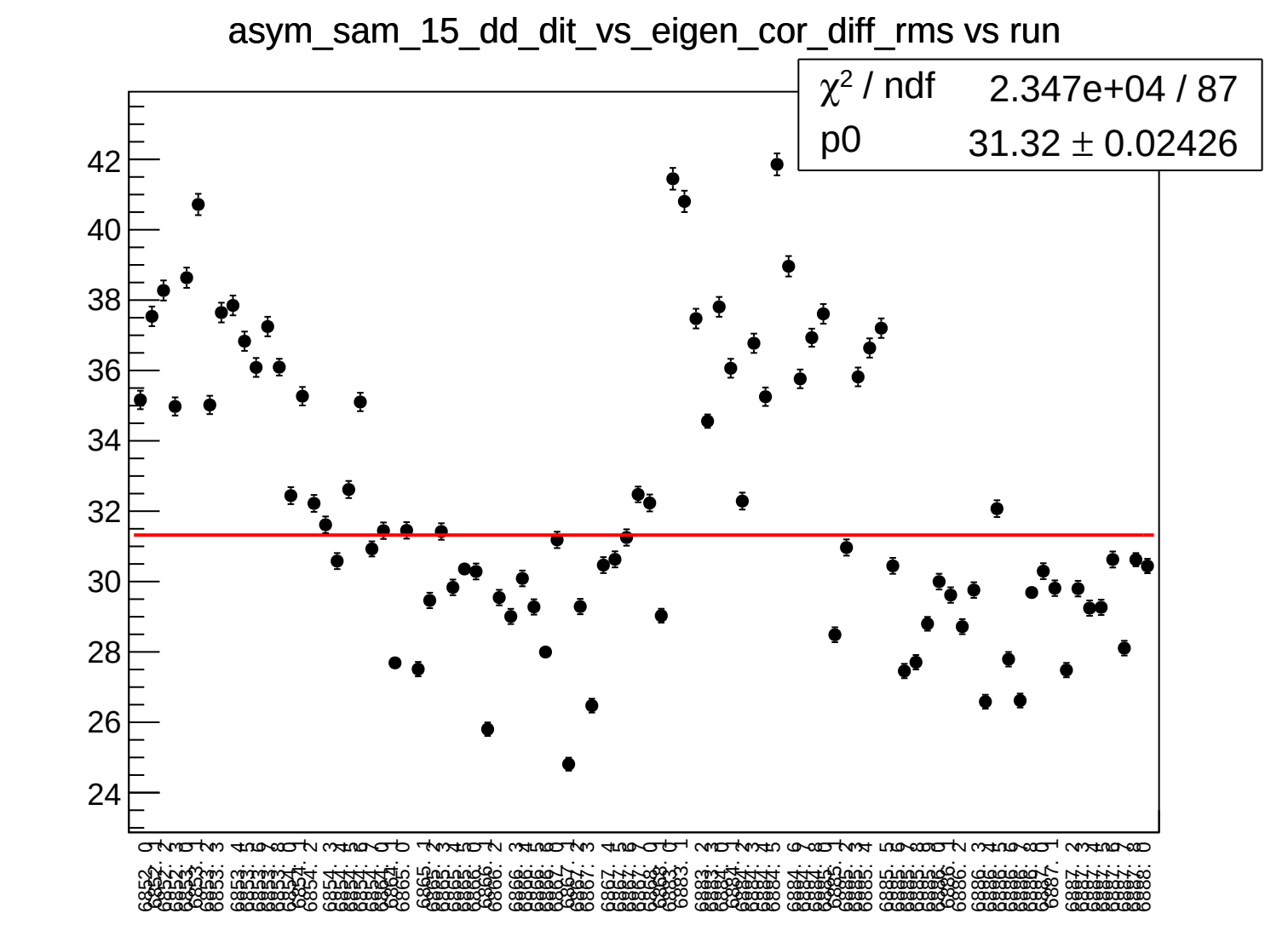
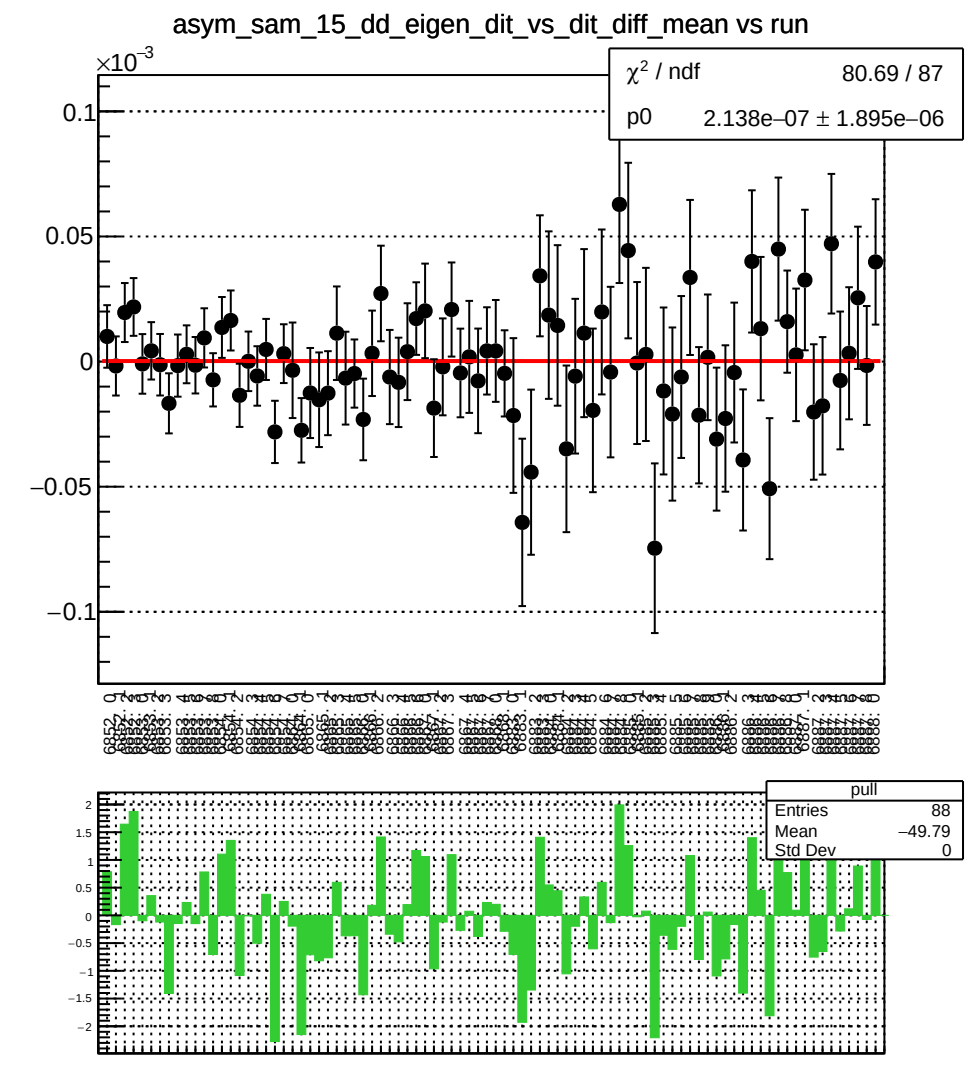
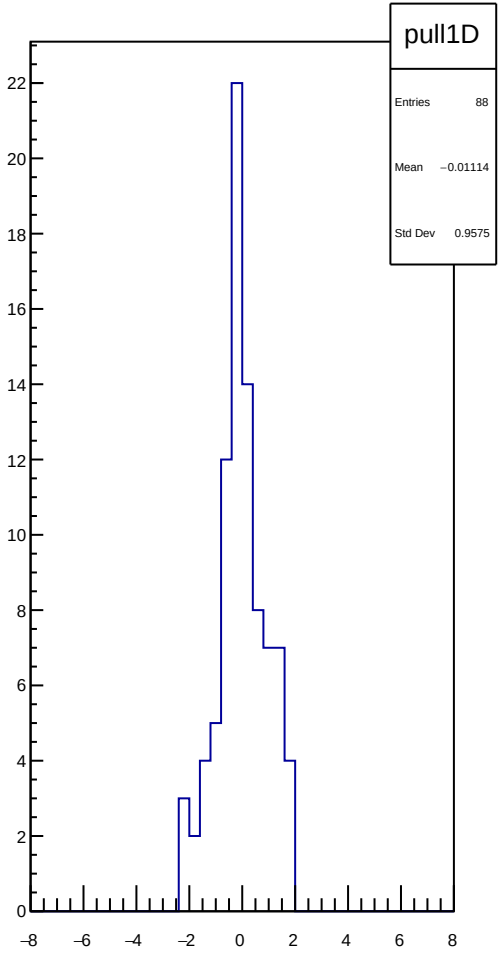
32
30
28
26
24

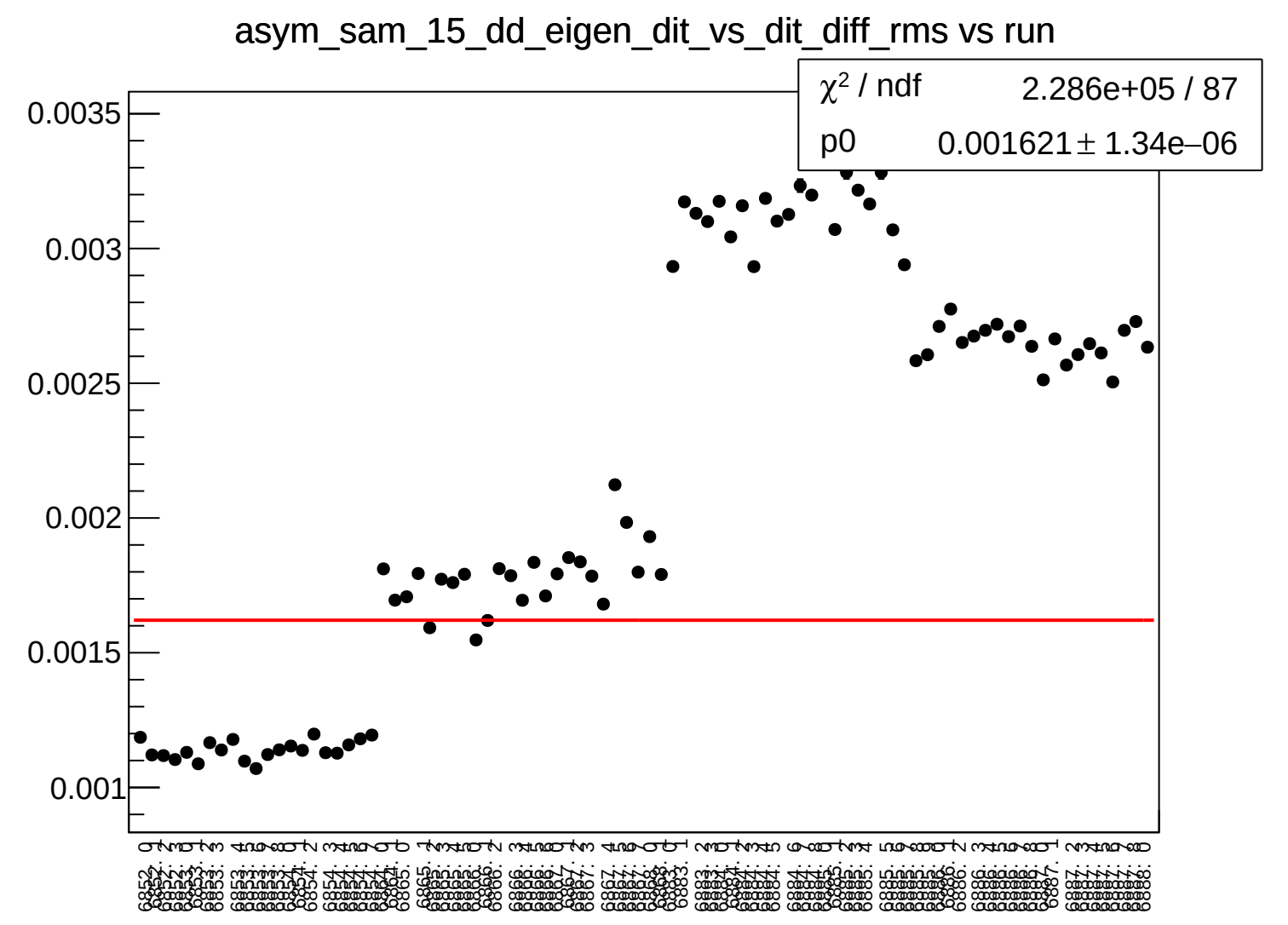

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.42 / 87
p0 −0.03104 ± 0.0343
pull
Entries 88
Mean −40.42
Std Dev 0

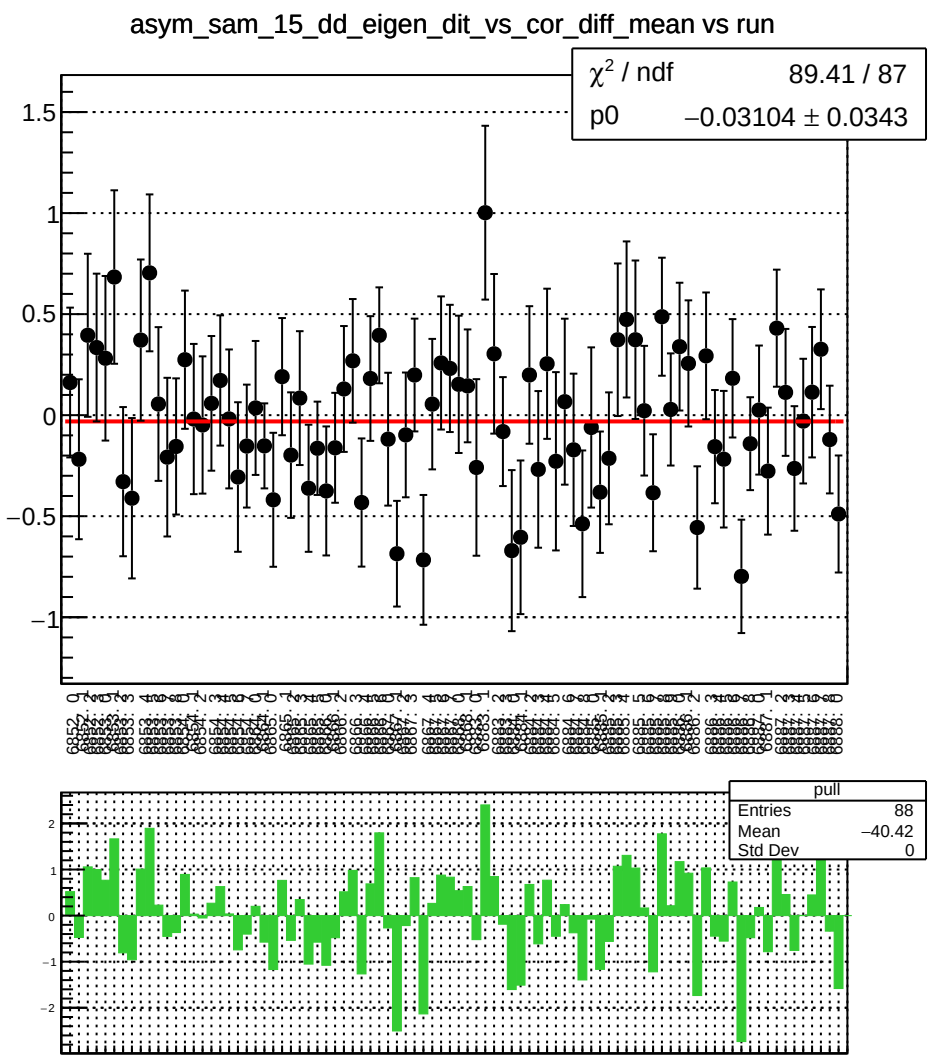

pull1D
Entries 88
Mean 0.02636
Std Dev 1.008

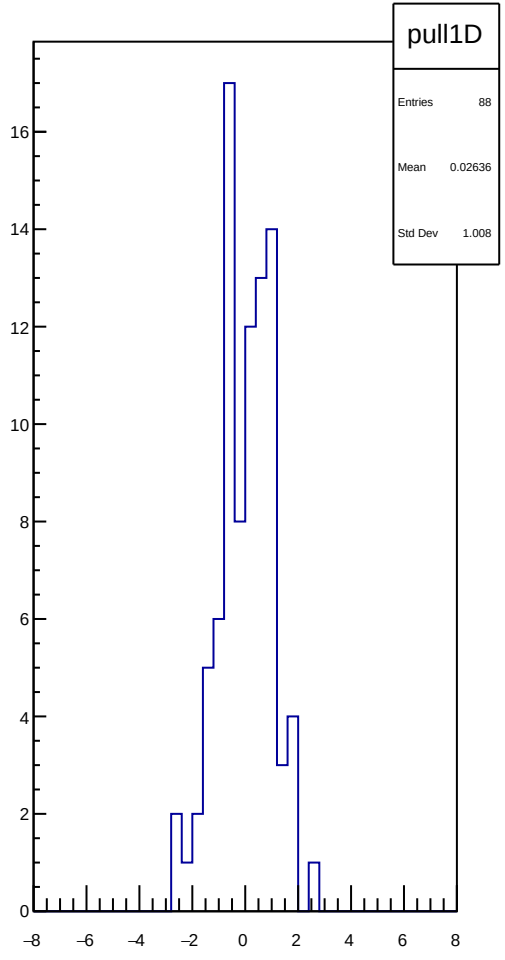

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.347e+04 / 87
p0 31.32 ± 0.02426
42
40
38
36
34
32
30
28
26
24

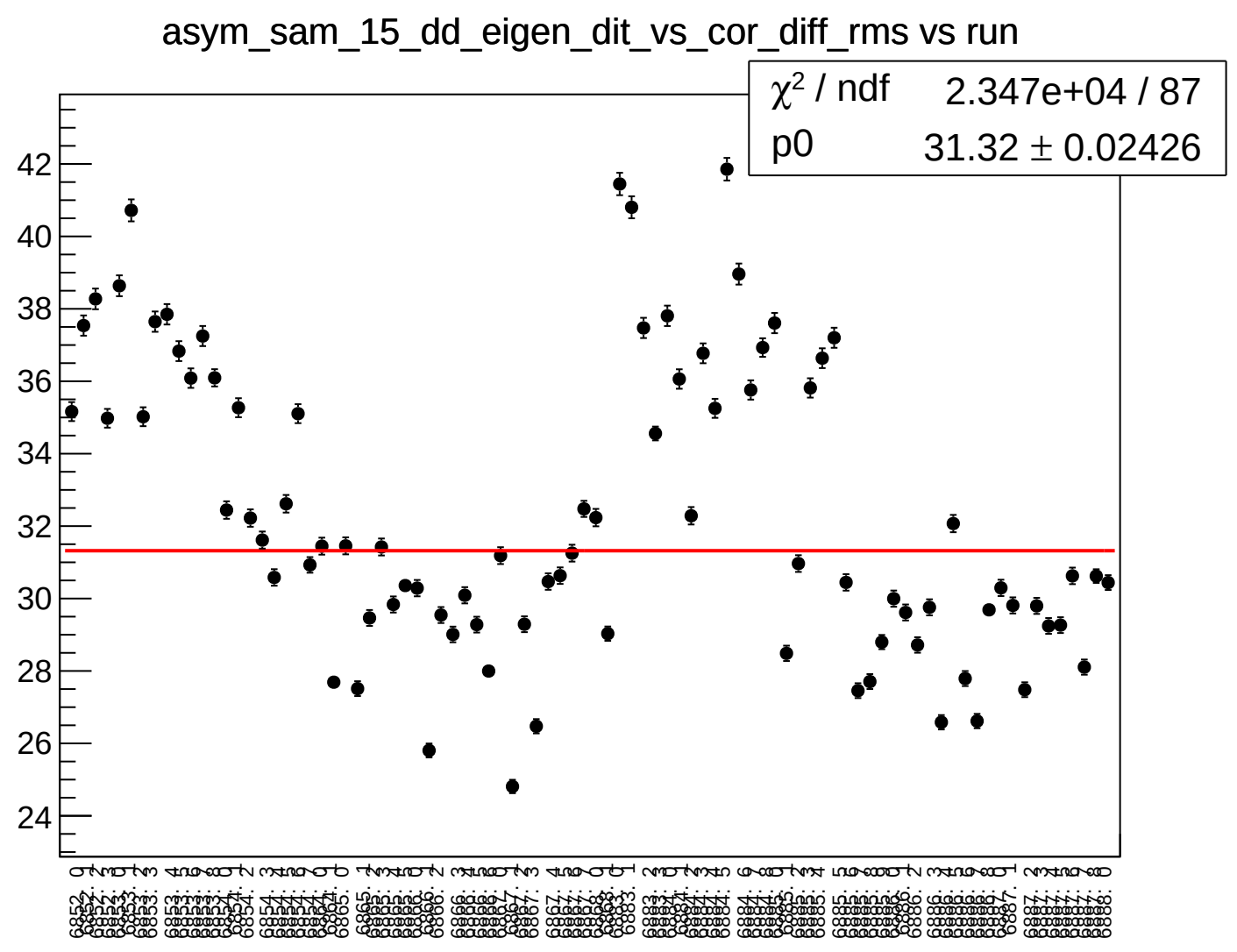

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 80.69 / 87
p0 2.138e−07 ± 1.895e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean −49.79
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

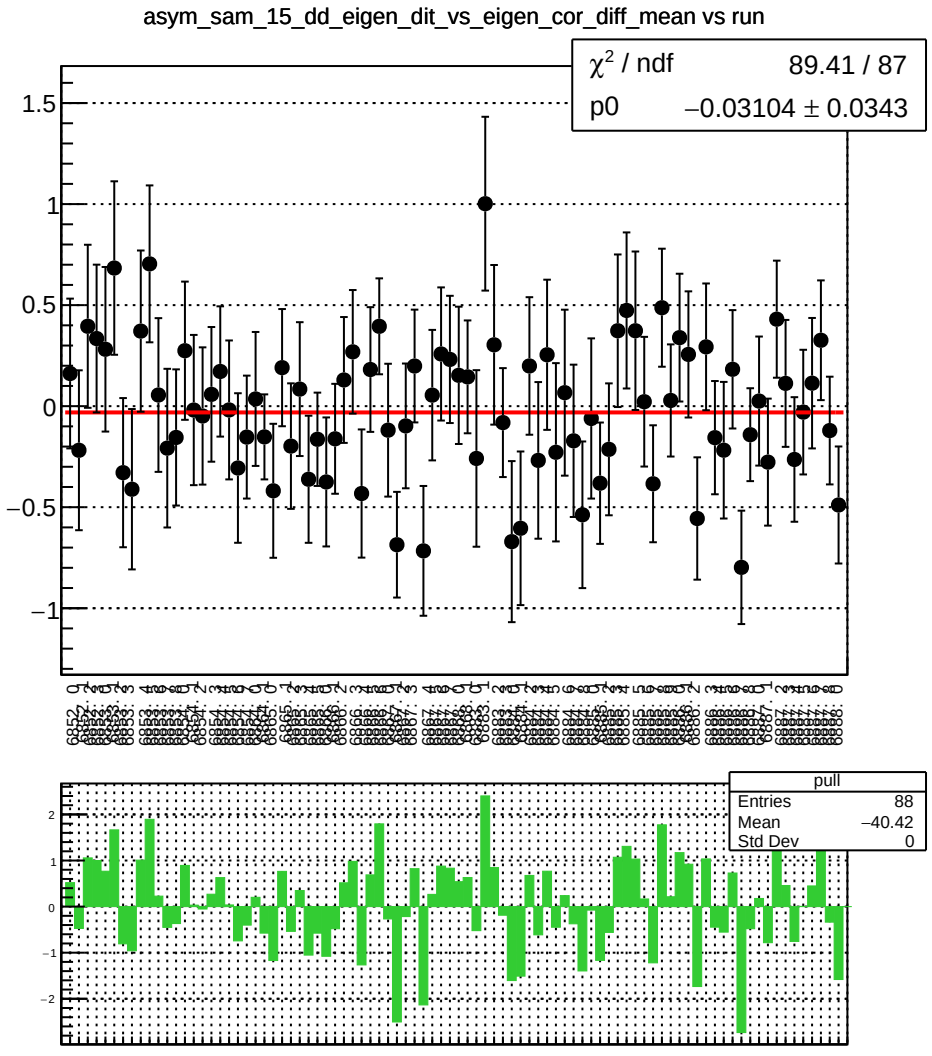

pull1D
Entries 88
Mean −0.01114
Std Dev 0.9575
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

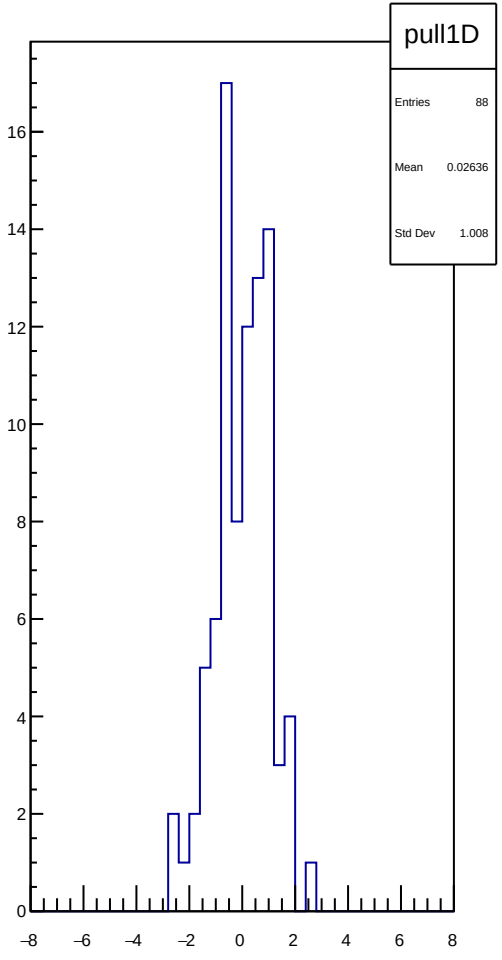

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.286e+05 / 87
p0 0.001621 ± 1.34e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

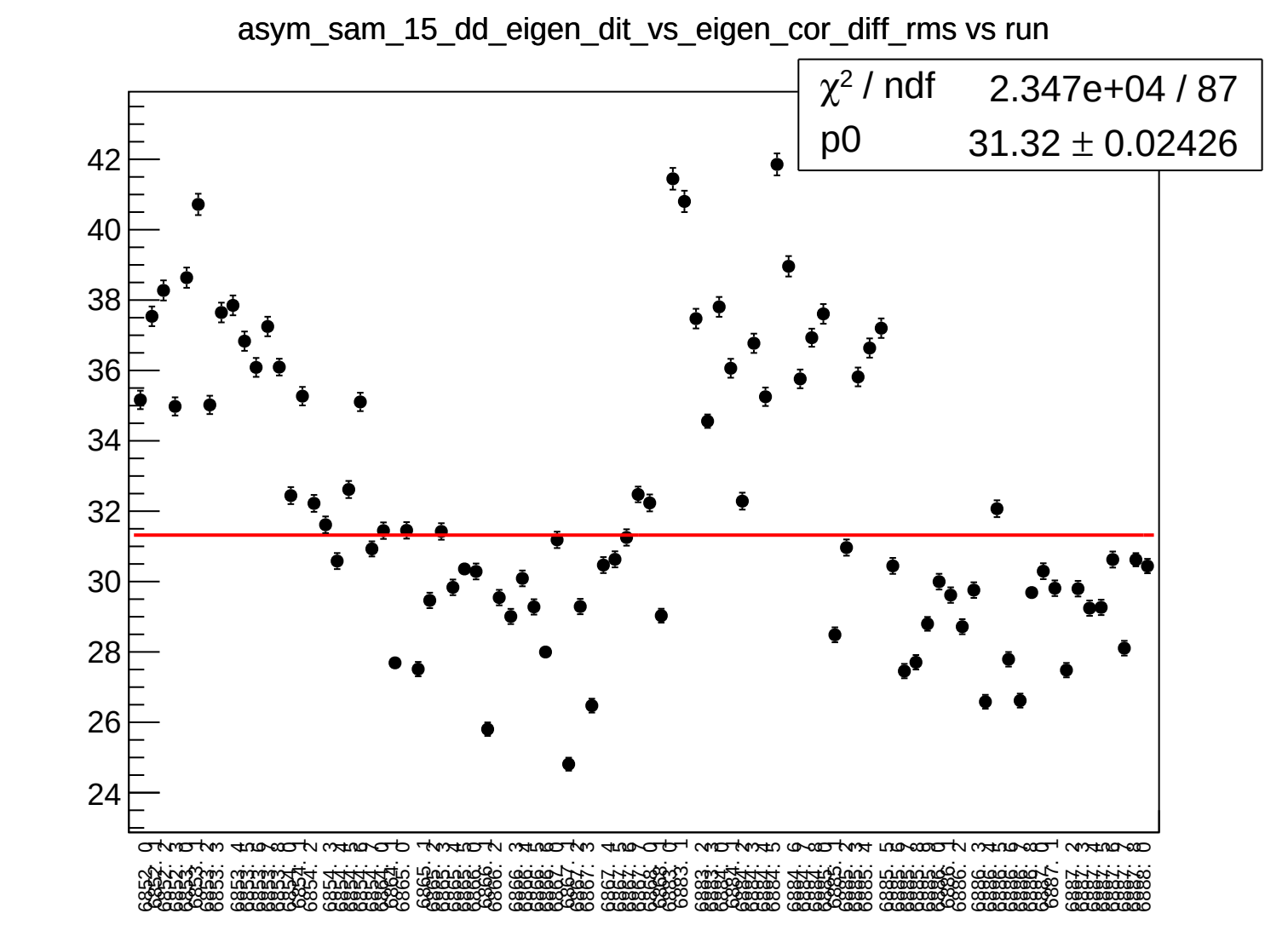

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.41 / 87
p0 −0.03104 ± 0.0343
pull
Entries 88
Mean −40.42
Std Dev 0

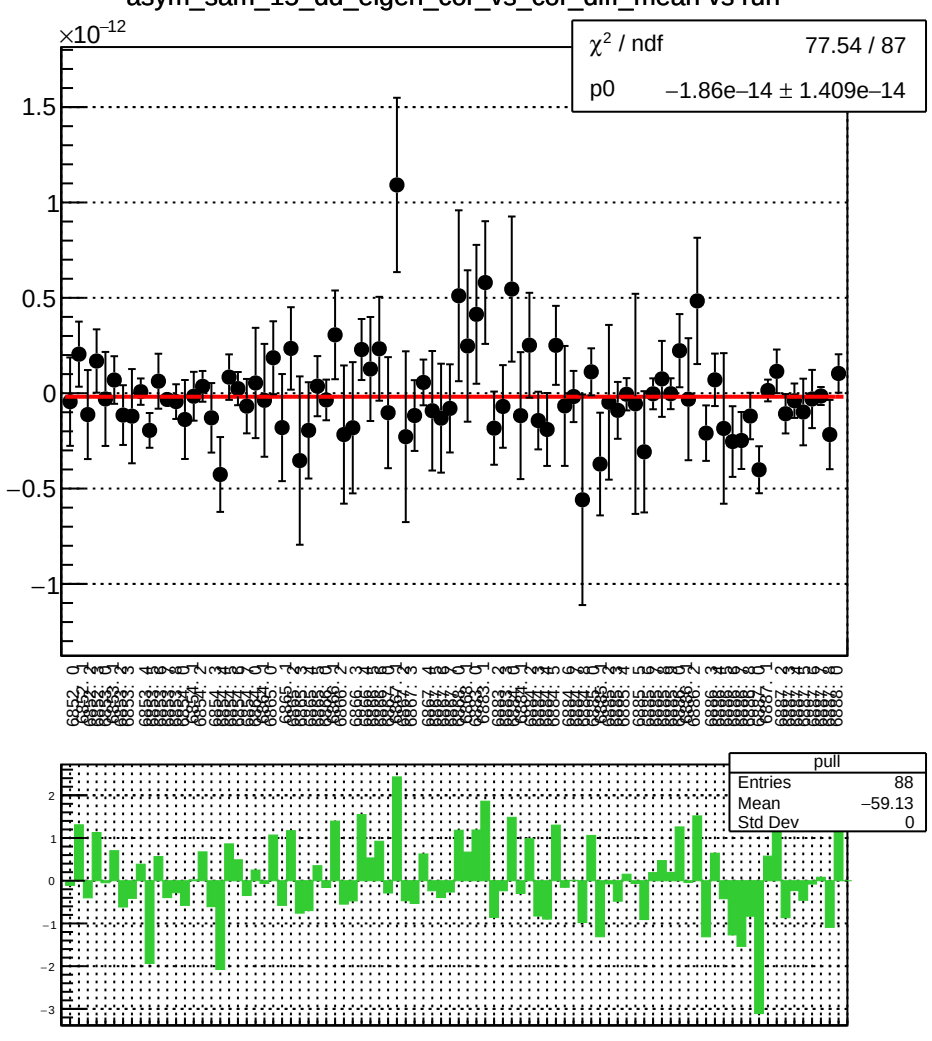

pull1D
Entries 88
Mean 0.02636
Std Dev 1.008

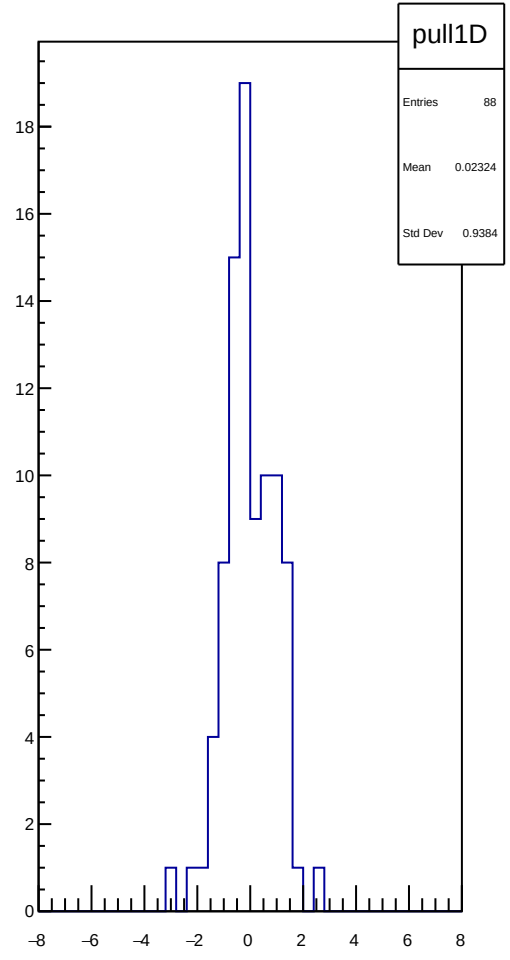

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.347e+04 / 87
p0 31.32 ± 0.02426
42
40
38
36
34
32
30
28
26
24

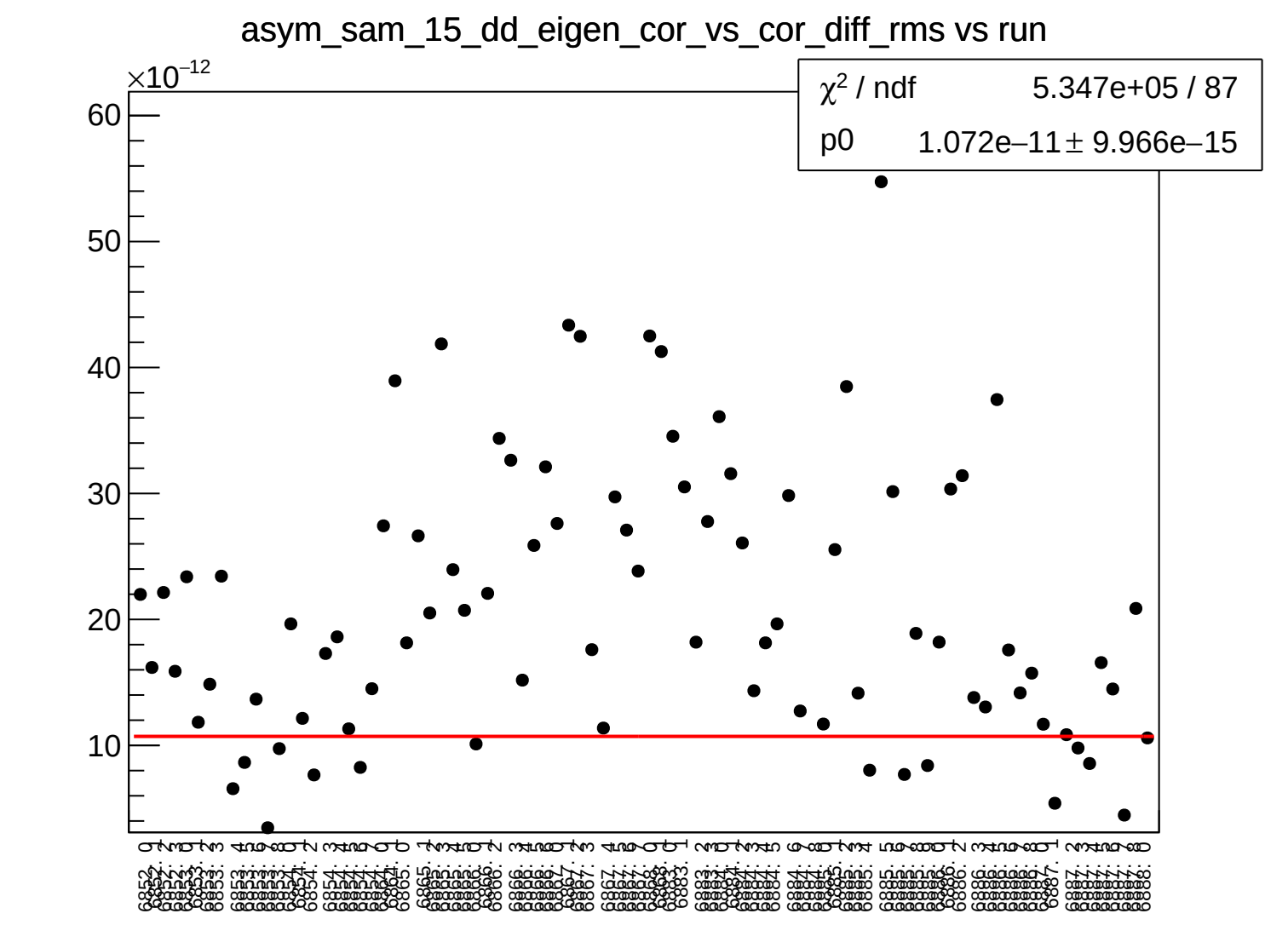

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.41 / 87
p0 −0.03104 ± 0.0343
pull
Entries 88
Mean −40.42
Std Dev 0

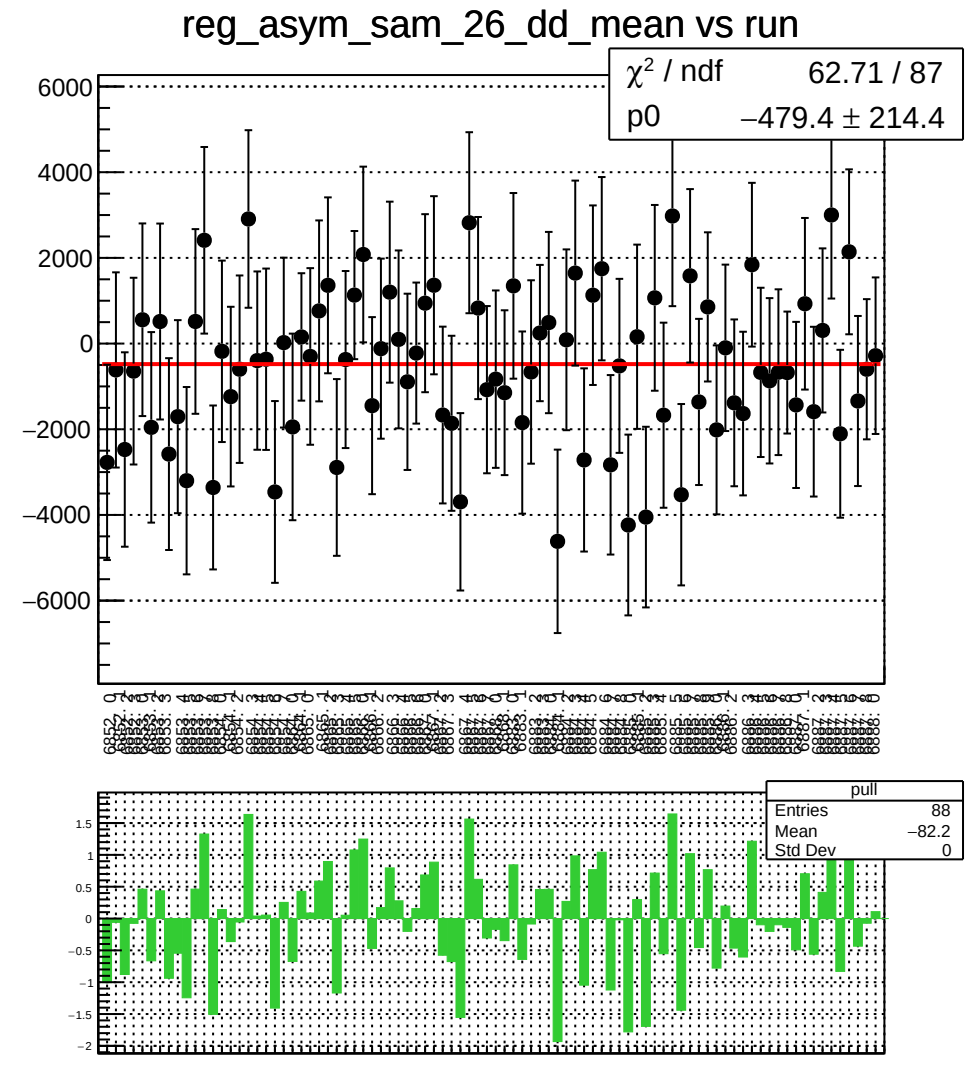

pull1D
Entries 88
Mean 0.02636
Std Dev 1.008

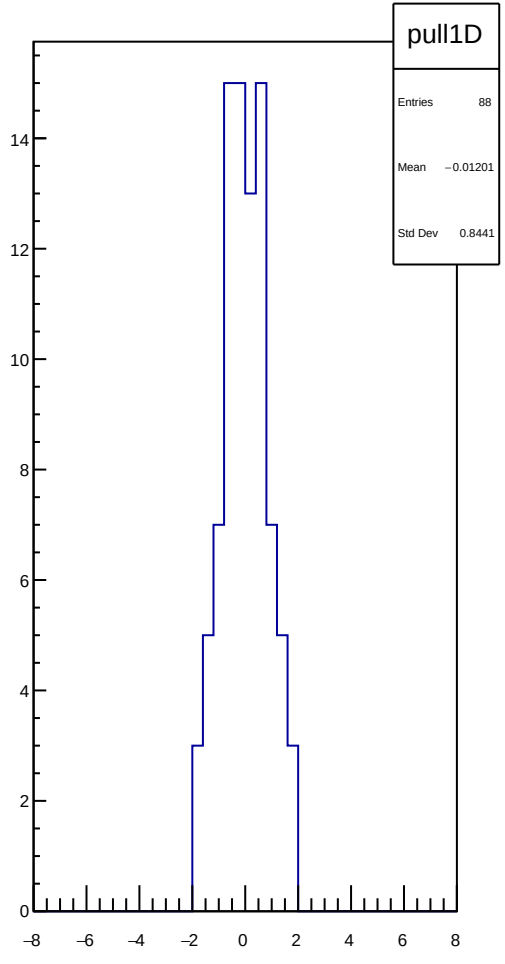

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.347e+04 / 87
p0 31.32 ± 0.02426
42
40
38
36
34
32
30
28
26
24

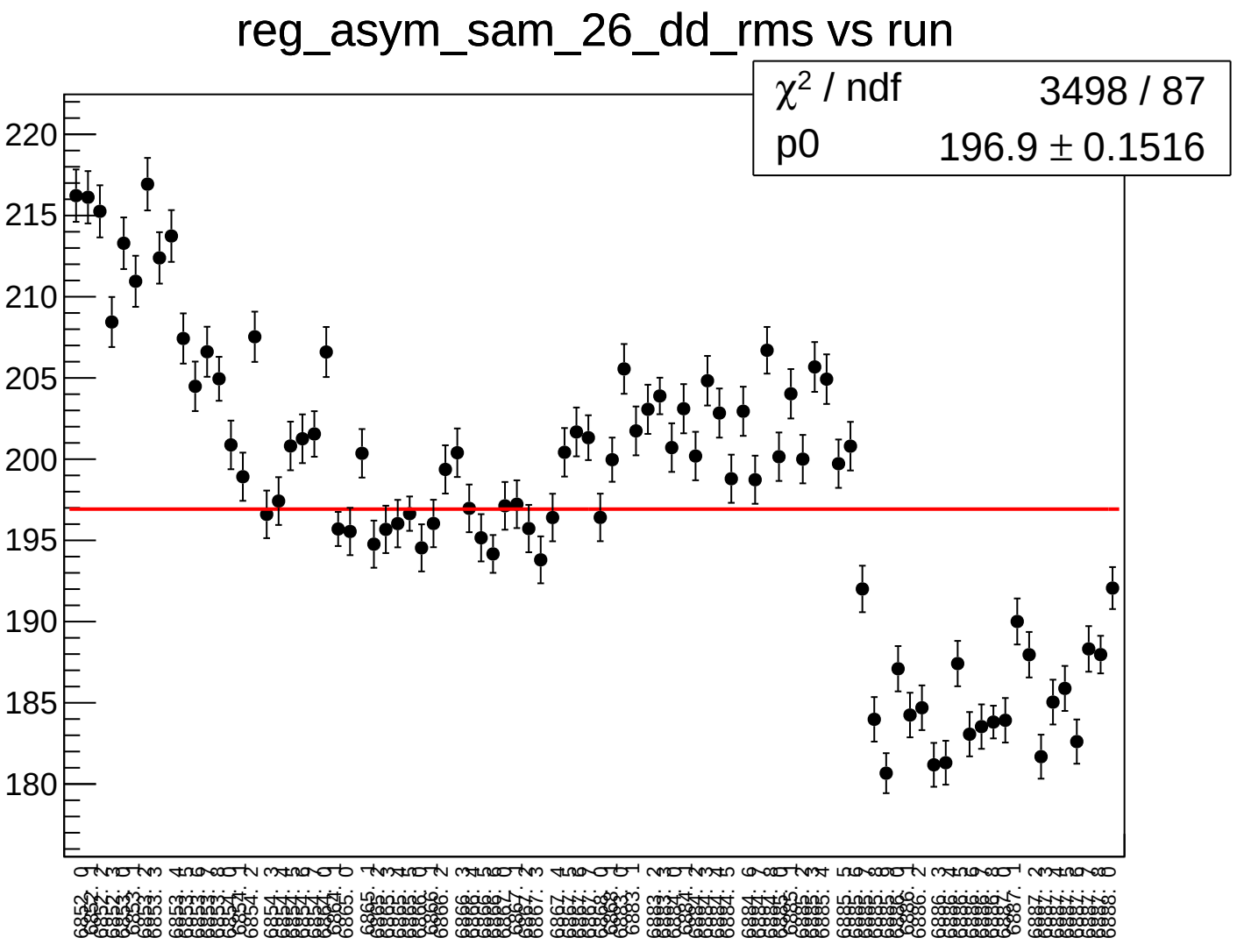

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.54 / 87
p0 −1.86e−14 ± 1.409e−14
pull
Entries 88
Mean −59.13
Std Dev 0

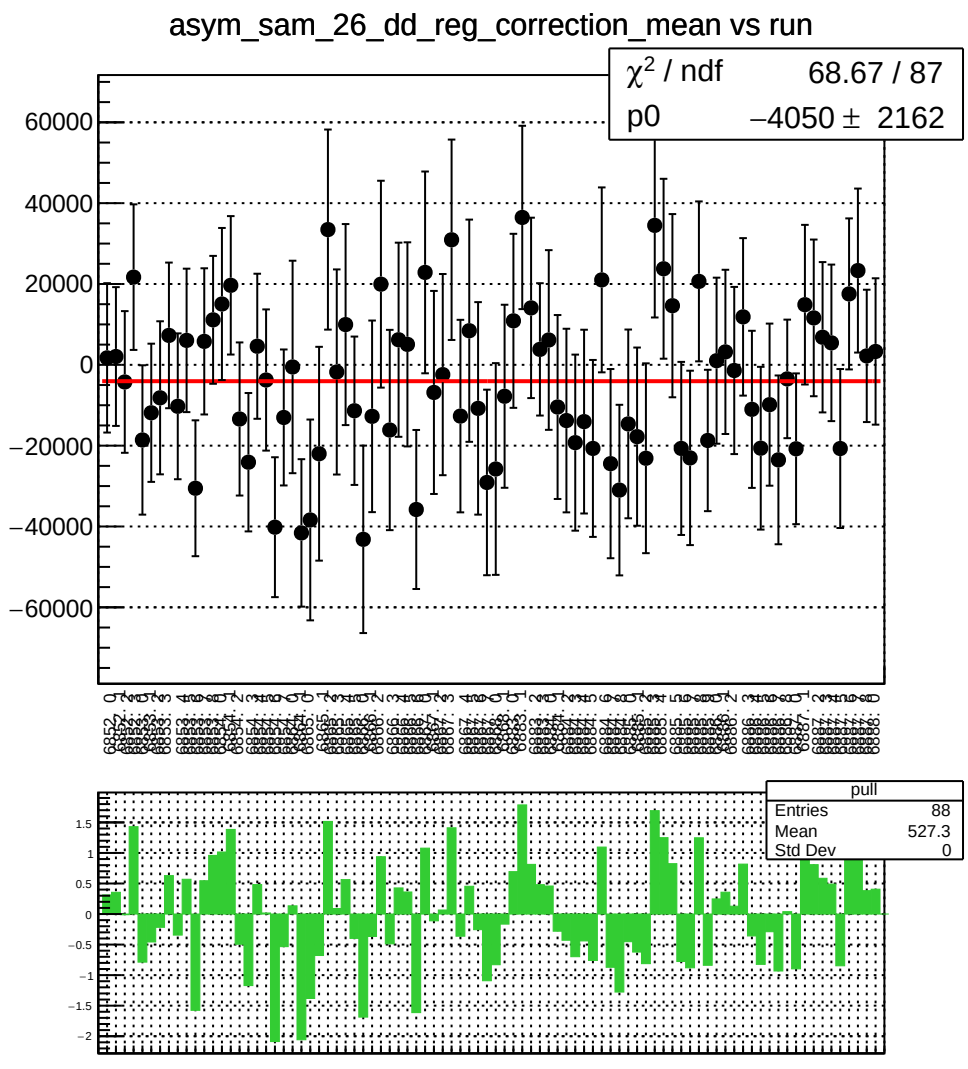

pull1D
Entries 88
Mean 0.02324
Std Dev 0.9384

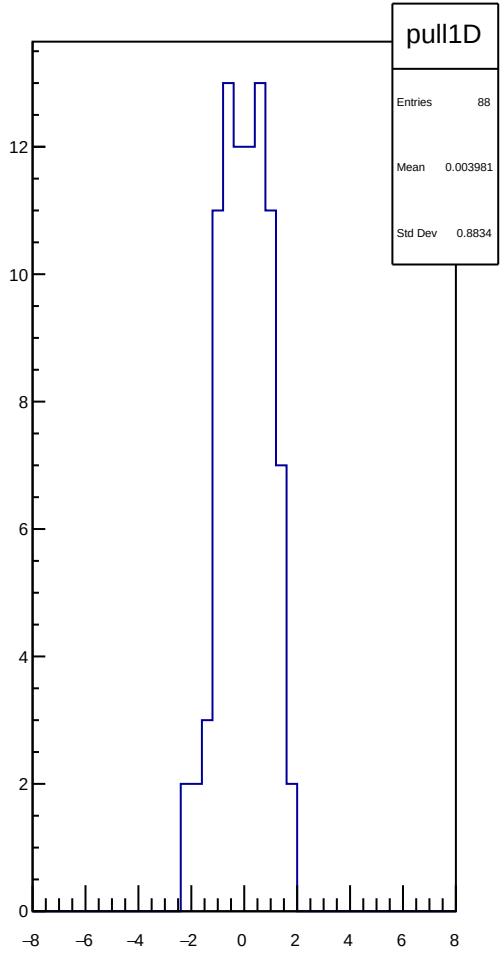

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.347e+05 / 87
p0 1.072e−11 ± 9.966e−15
60
50
40
30
20
10

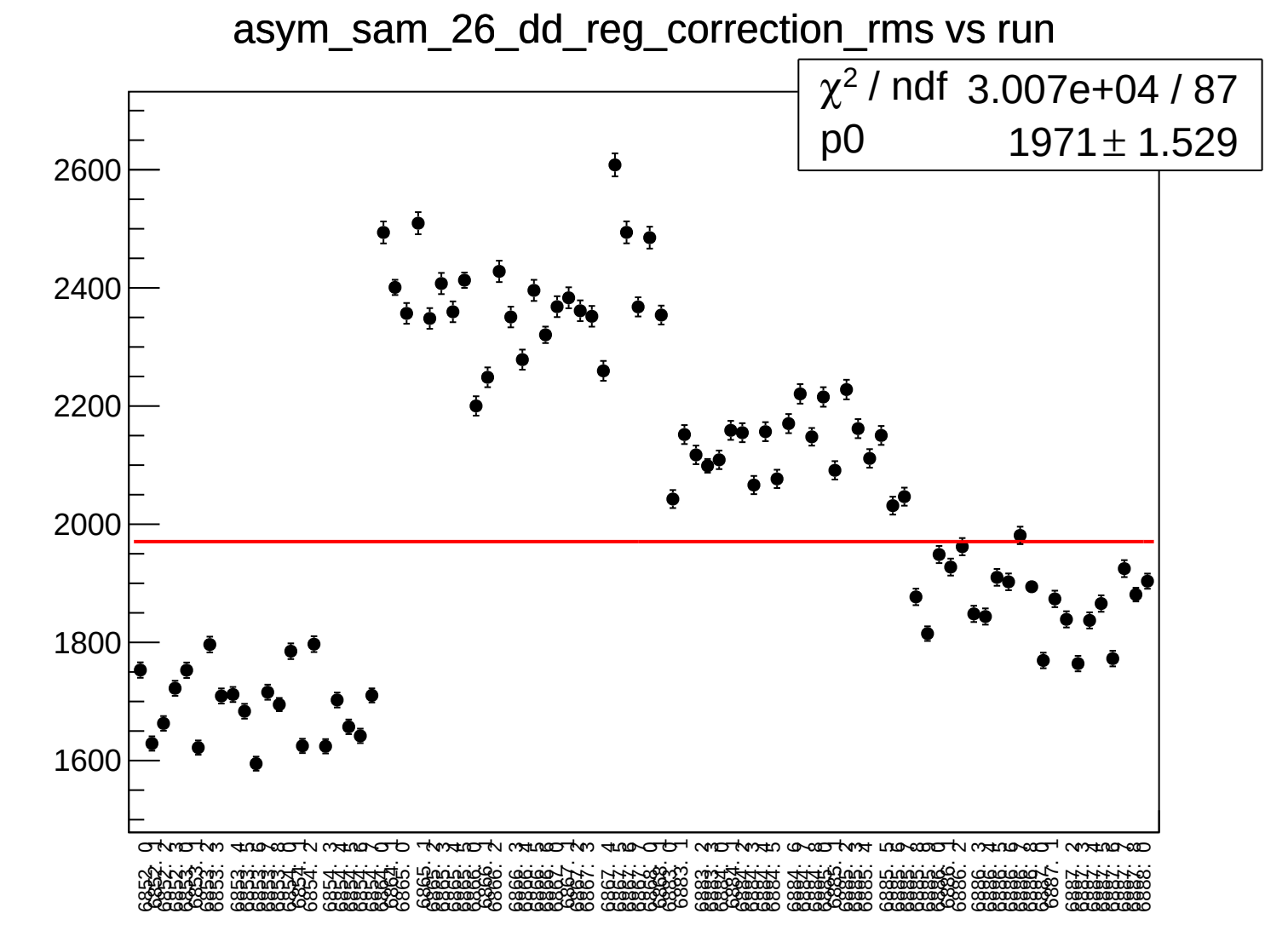

reg_asym_sam_26_dd_mean vs run
χ² / ndf 62.71 / 87
p0 −479.4 ± 214.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −82.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

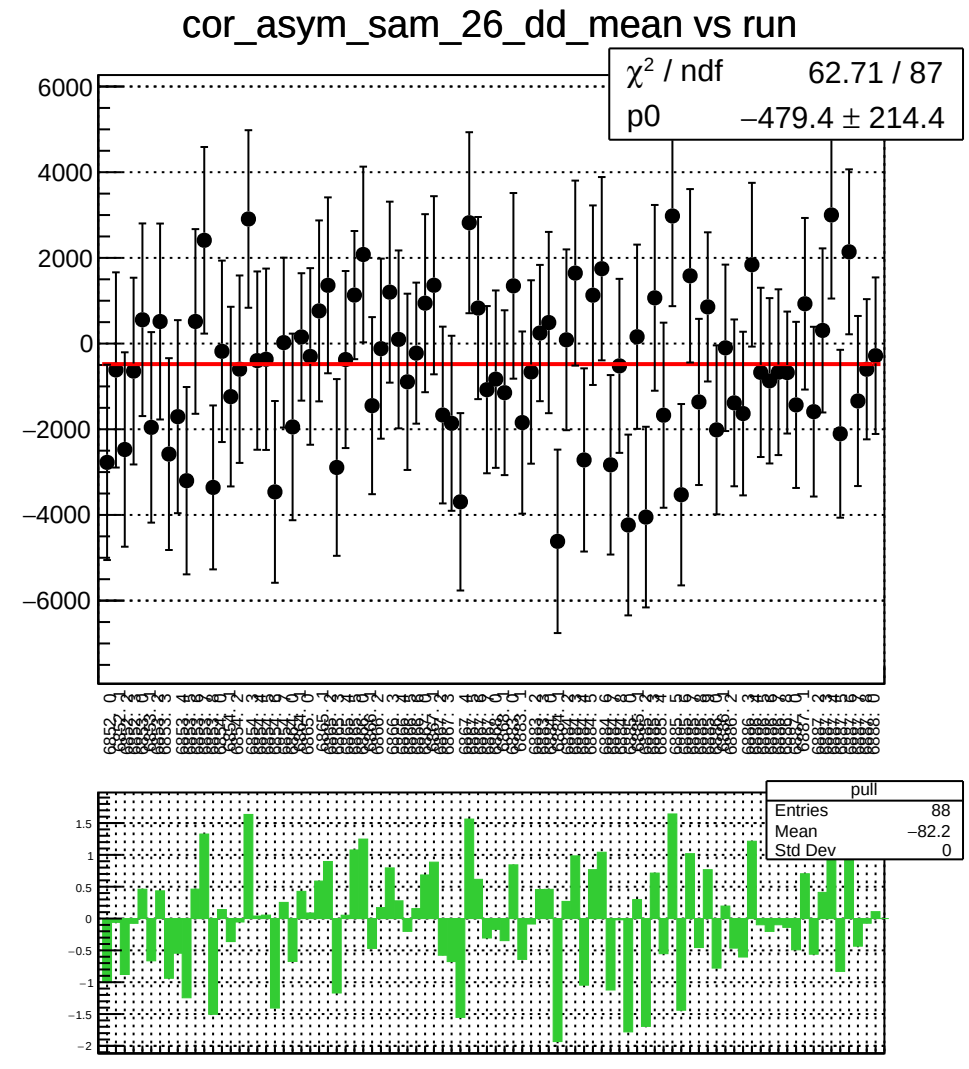

pull1D
Entries 88
Mean −0.01201
Std Dev 0.8441
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

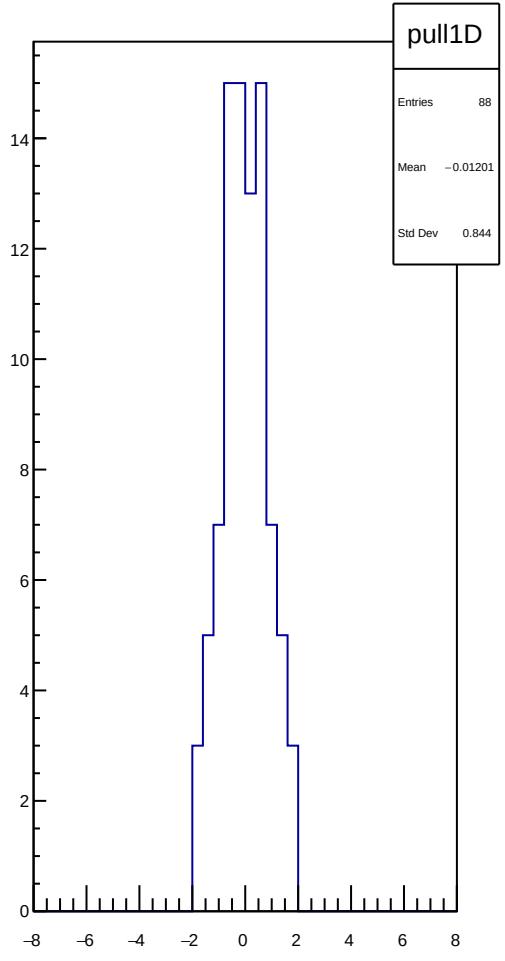

reg_asym_sam_26_dd_rms vs run
χ² / ndf 3498 / 87
p0 196.9 ± 0.1516
220
215
210
205
200
195
190
185
180

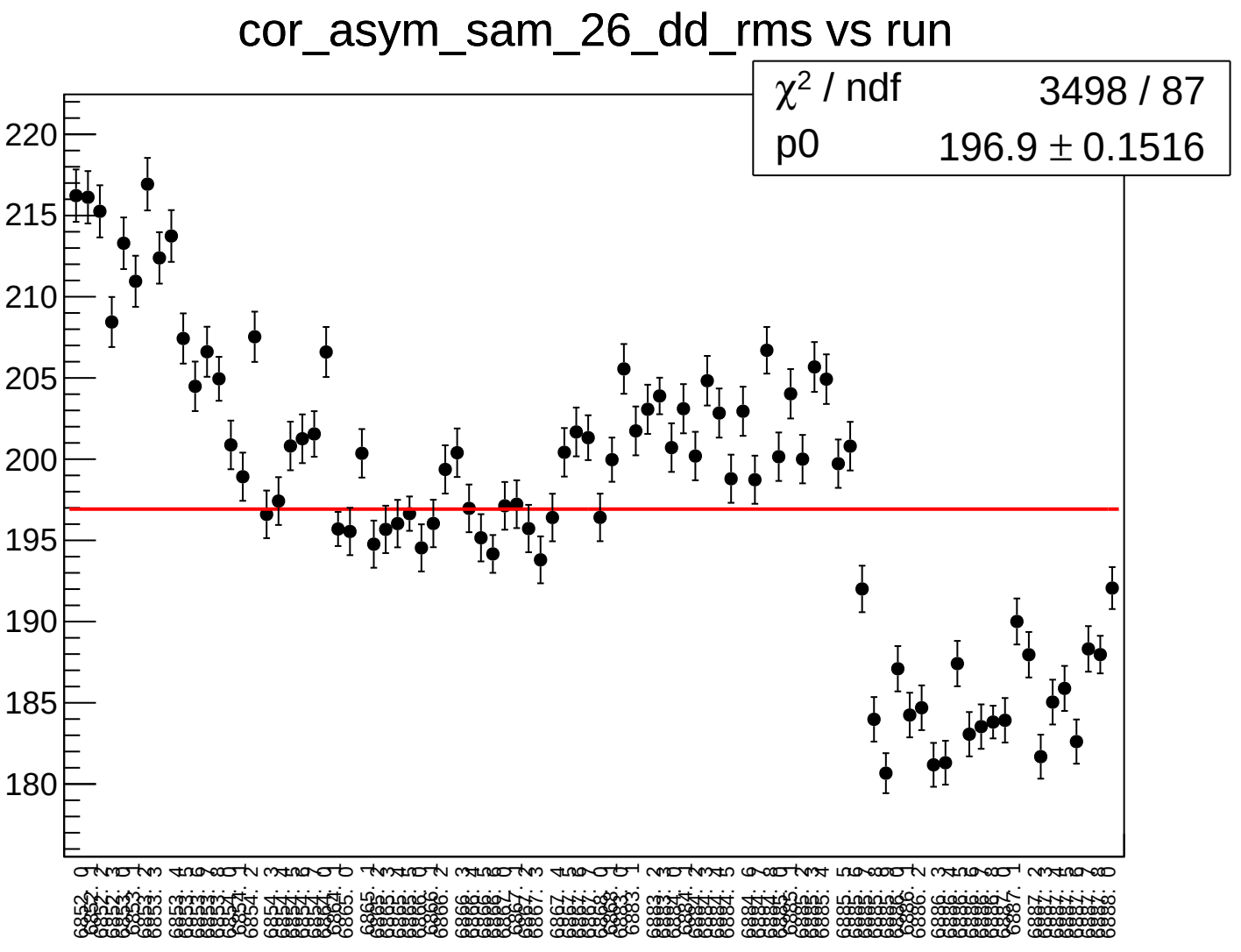

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 68.67 / 87
p0 −4050 ± 2162
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 527.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

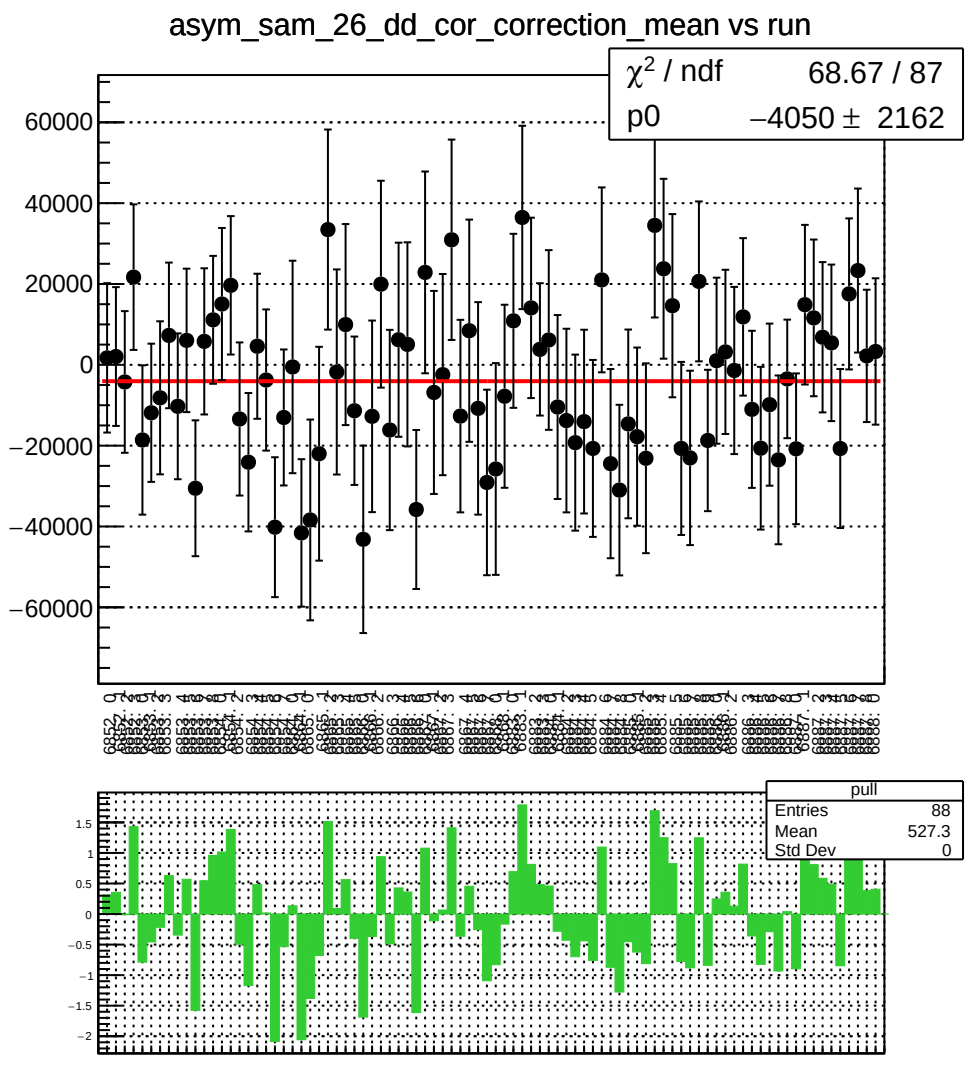

pull1D
Entries 88
Mean 0.003981
Std Dev 0.8834
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

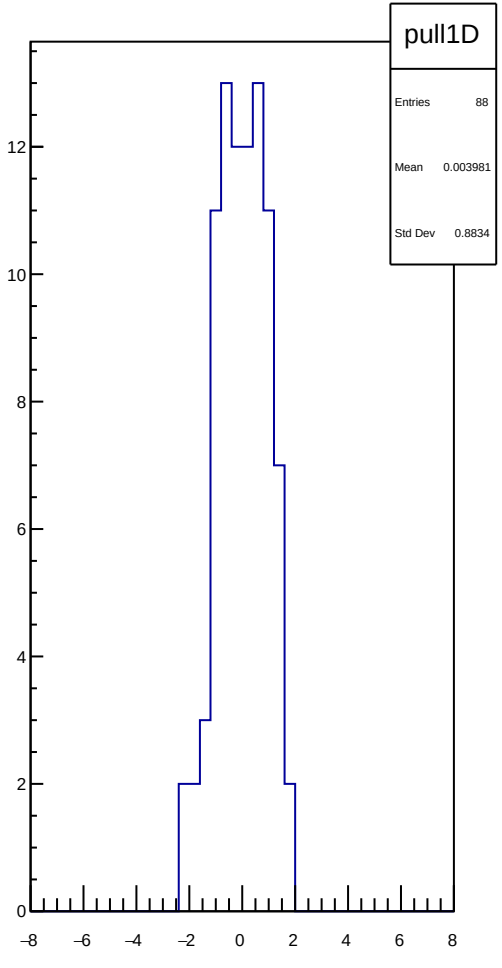

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 3.007e+04 / 87
p0 1971 ± 1.529
2600
2400
2200
2000
1800
1600

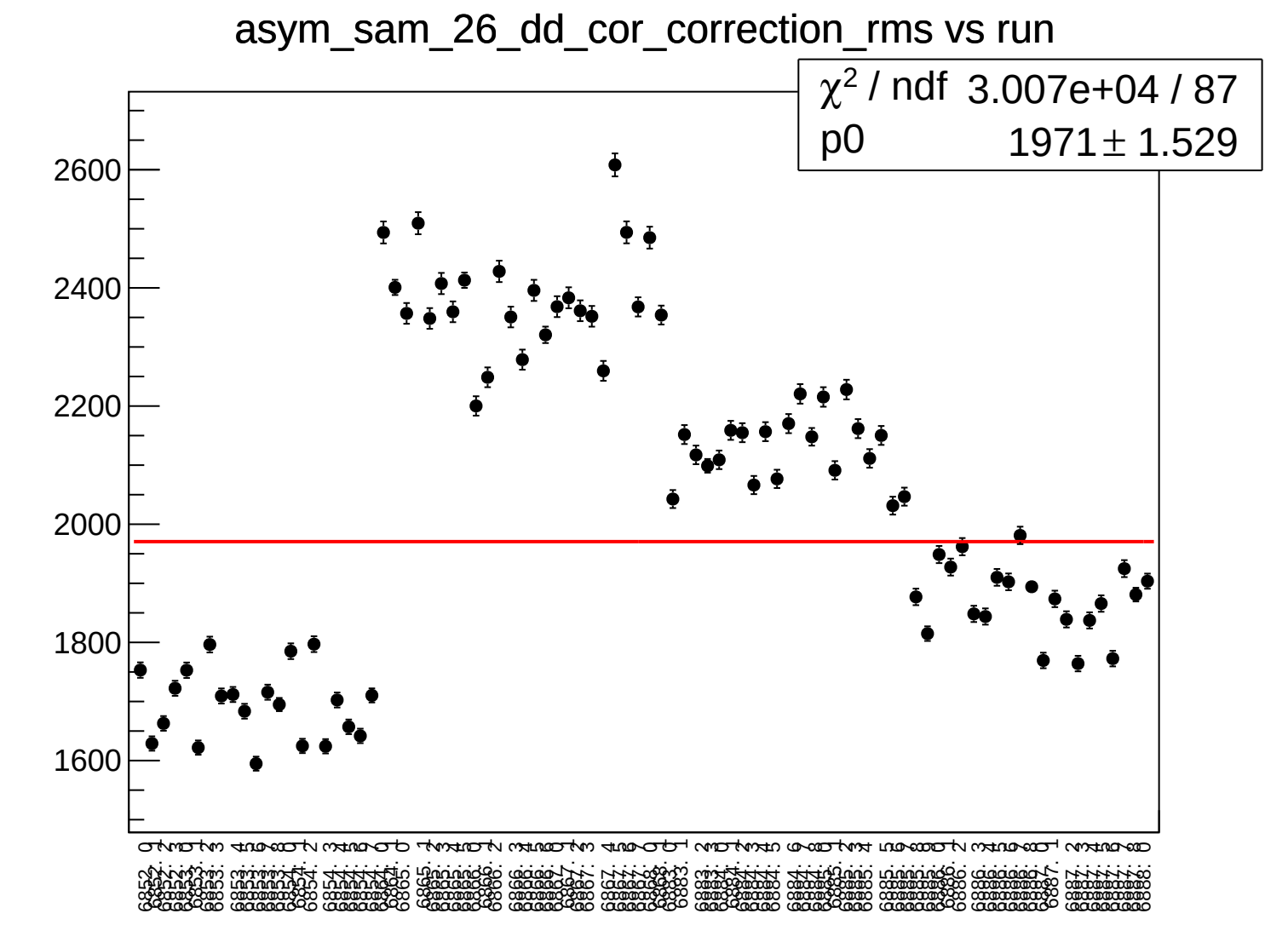

cor_asym_sam_26_dd_mean vs run
χ² / ndf 62.71 / 87
p0 −479.4 ± 214.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −82.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

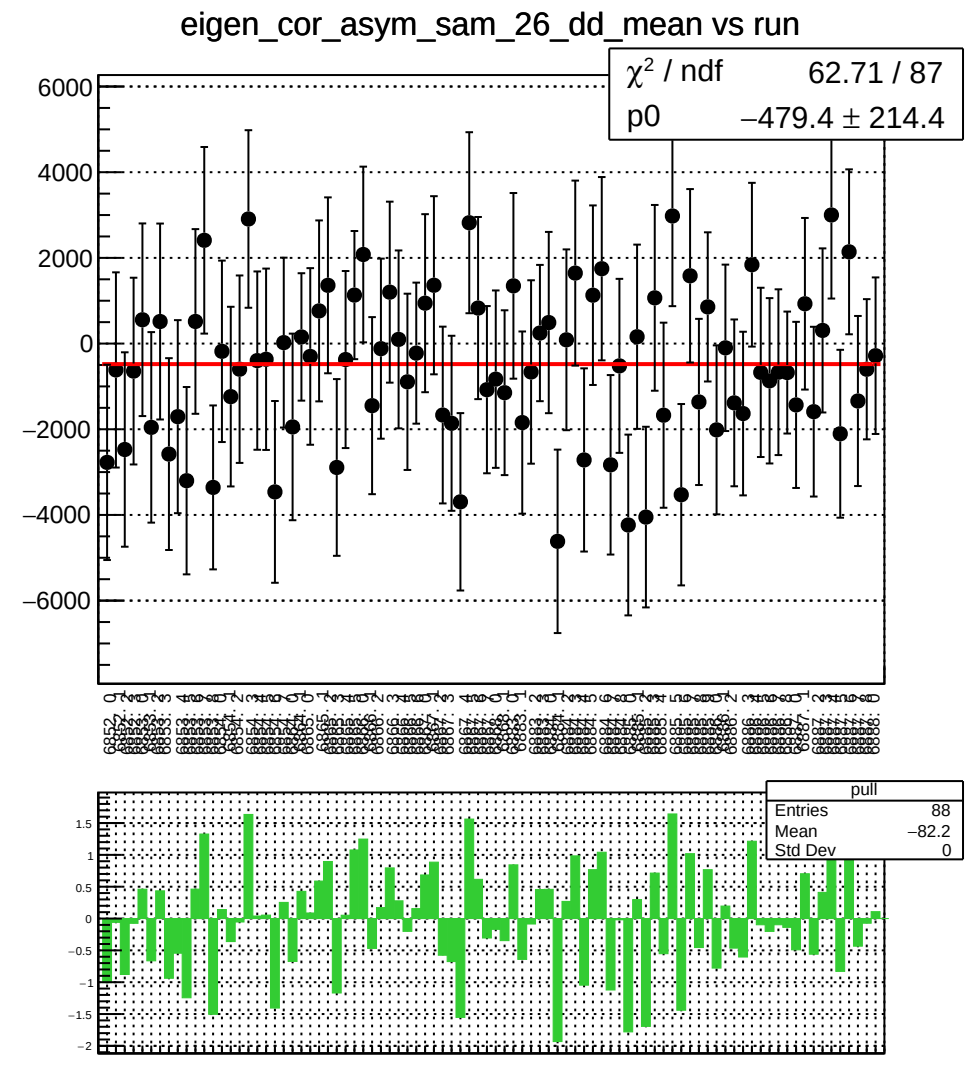

pull1D
Entries 88
Mean −0.01201
Std Dev 0.844
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

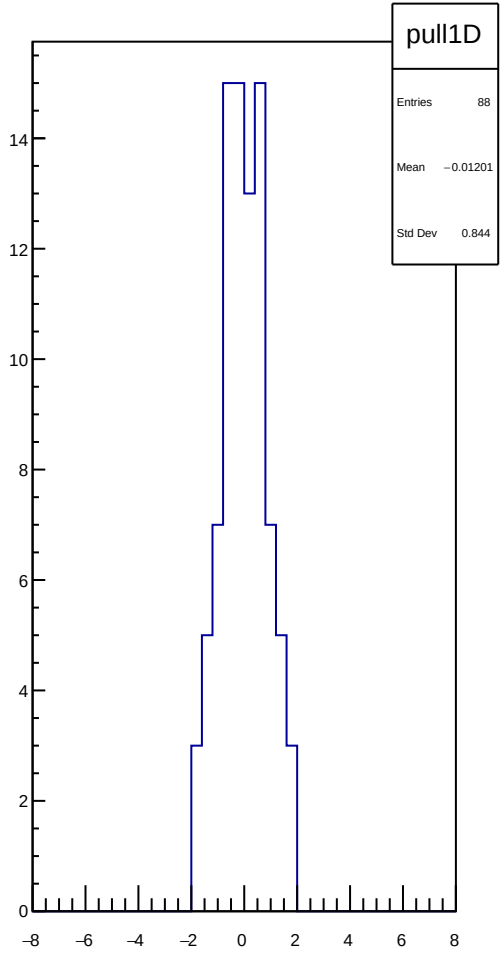

cor_asym_sam_26_dd_rms vs run
χ² / ndf 3498 / 87
p0 196.9 ± 0.1516
220
215
210
205
200
195
190
185
180

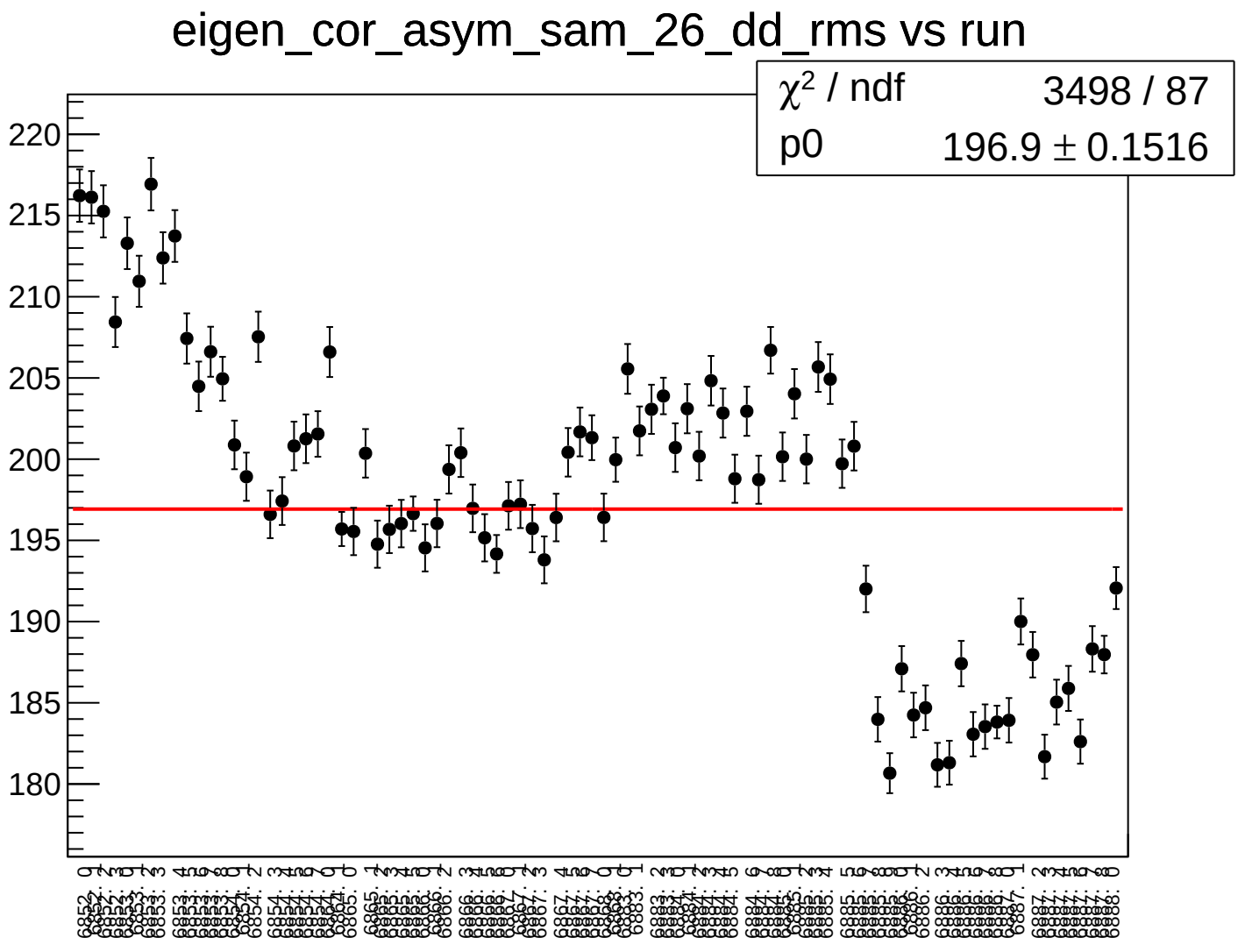

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 68.67 / 87
p0 −4050 ± 2162
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 527.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

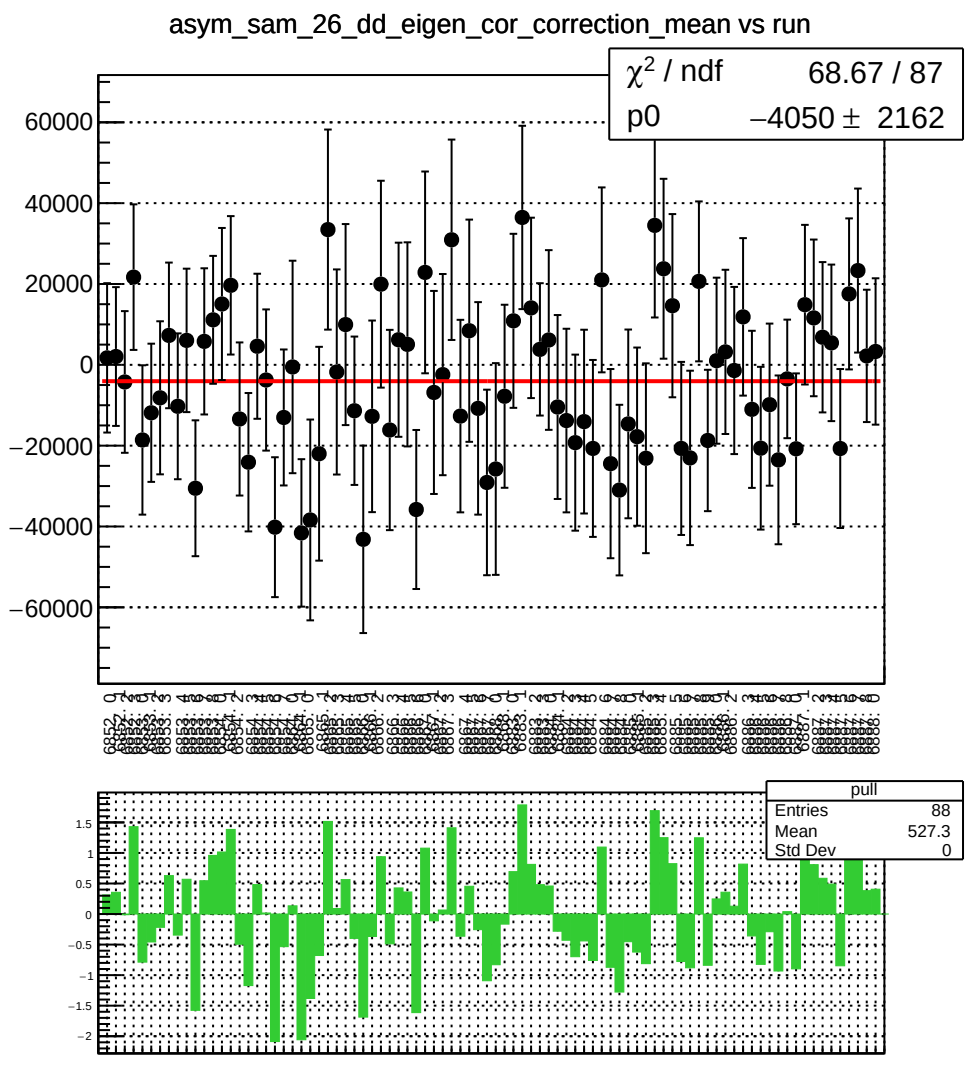

pull1D
Entries 88
Mean 0.003981
Std Dev 0.8834
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

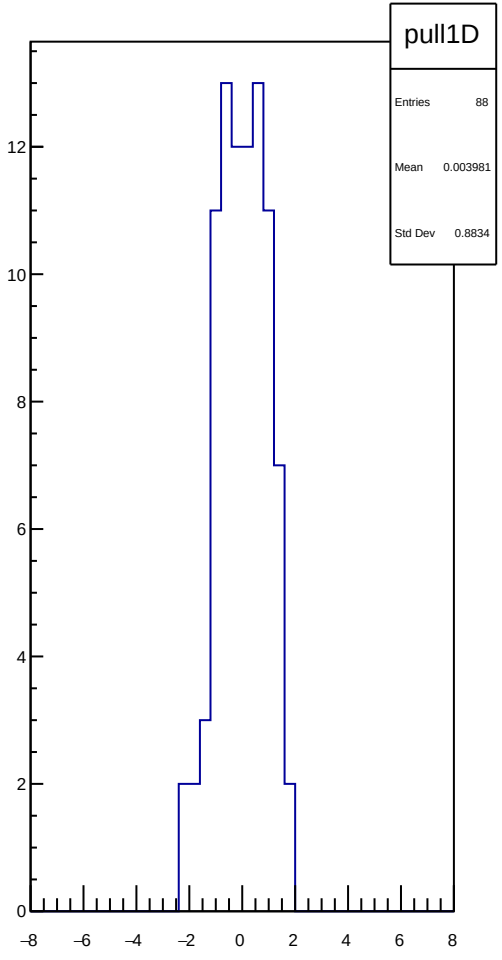

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 3.007e+04 / 87
p0 1971 ± 1.529
2600
2400
2200
2000
1800
1600

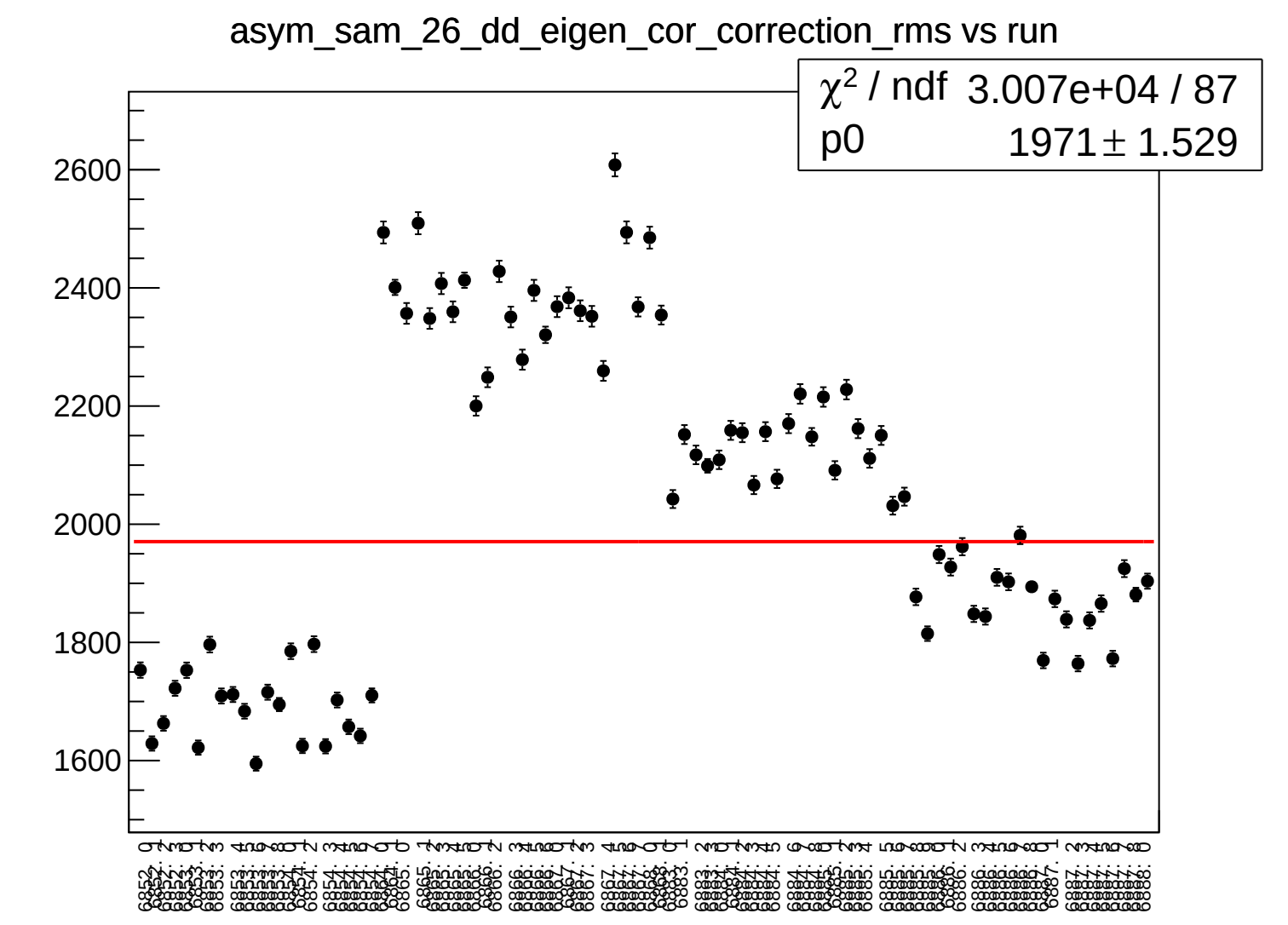

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 62.71 / 87
p0 −479.4 ± 214.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean −82.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

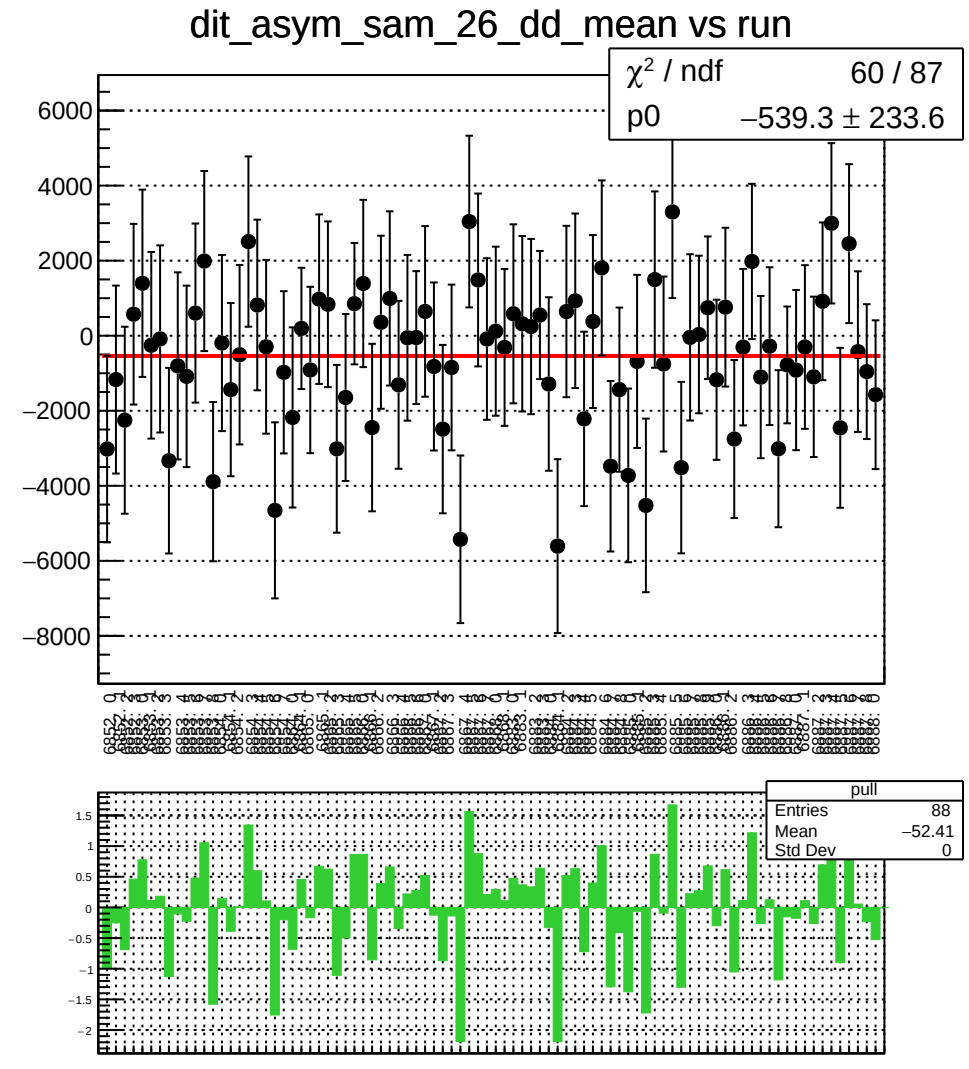

pull1D
Entries 88
Mean −0.01201
Std Dev 0.844
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

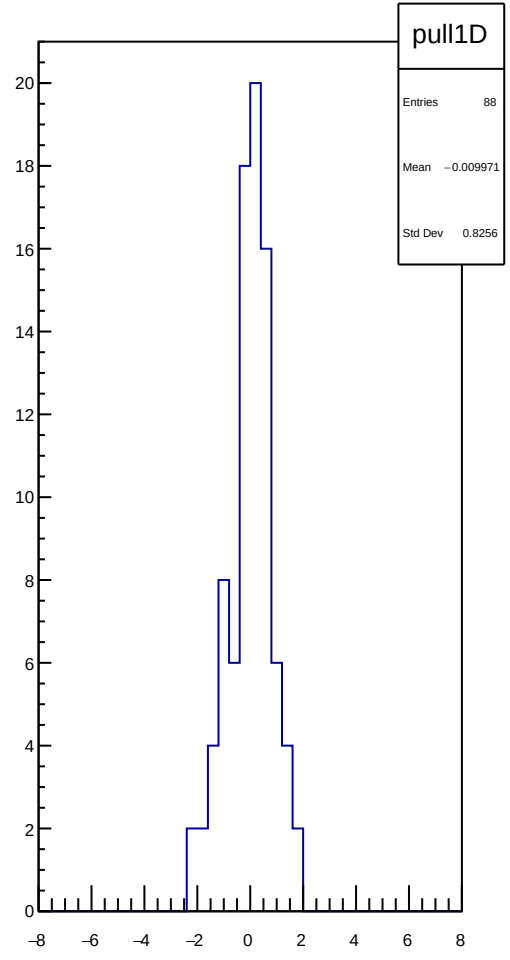

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 3498 / 87
p0 196.9 ± 0.1516
220
215
210
205
200
195
190
185
180

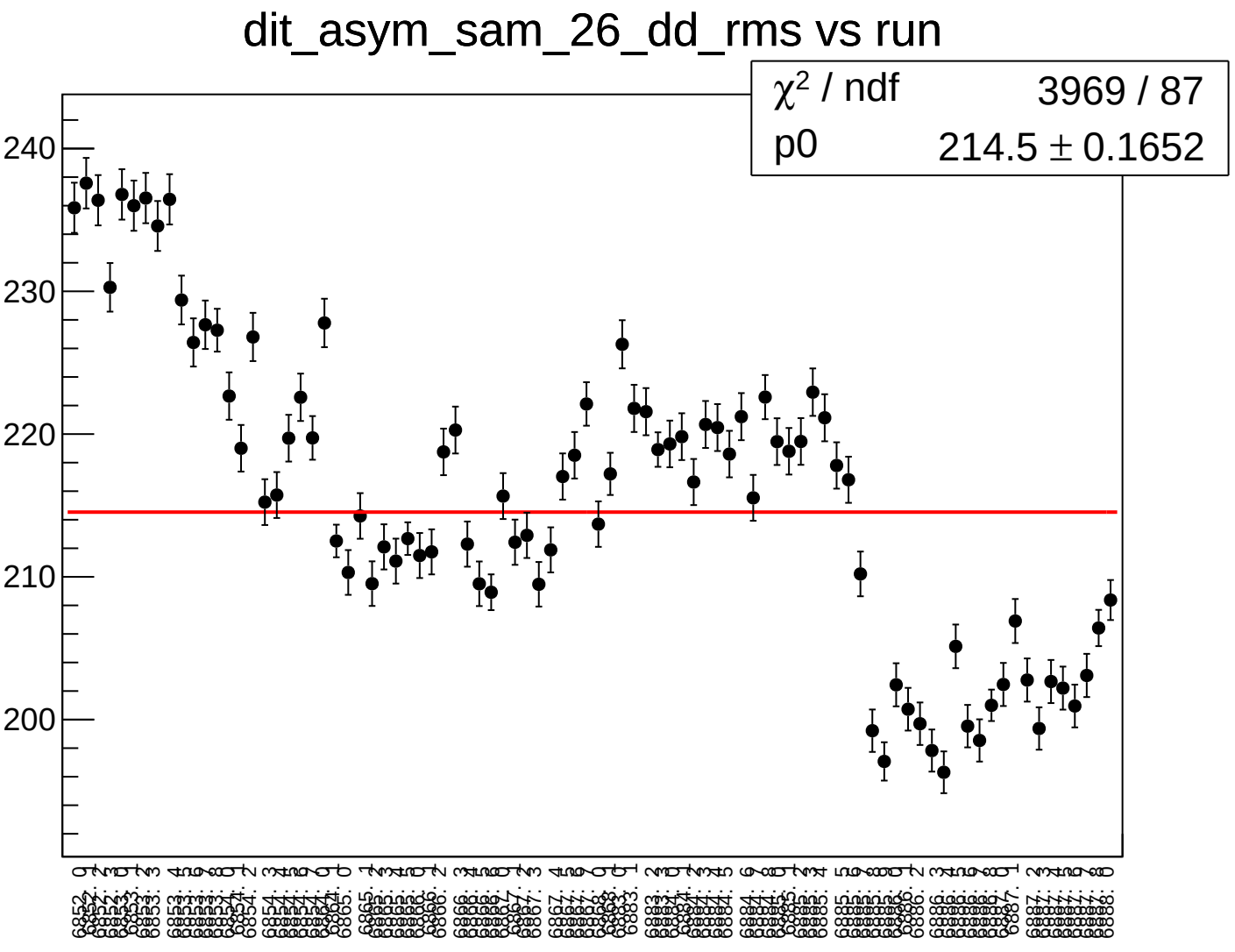

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.67 / 87
p0 −4050 ± 2162
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 527.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

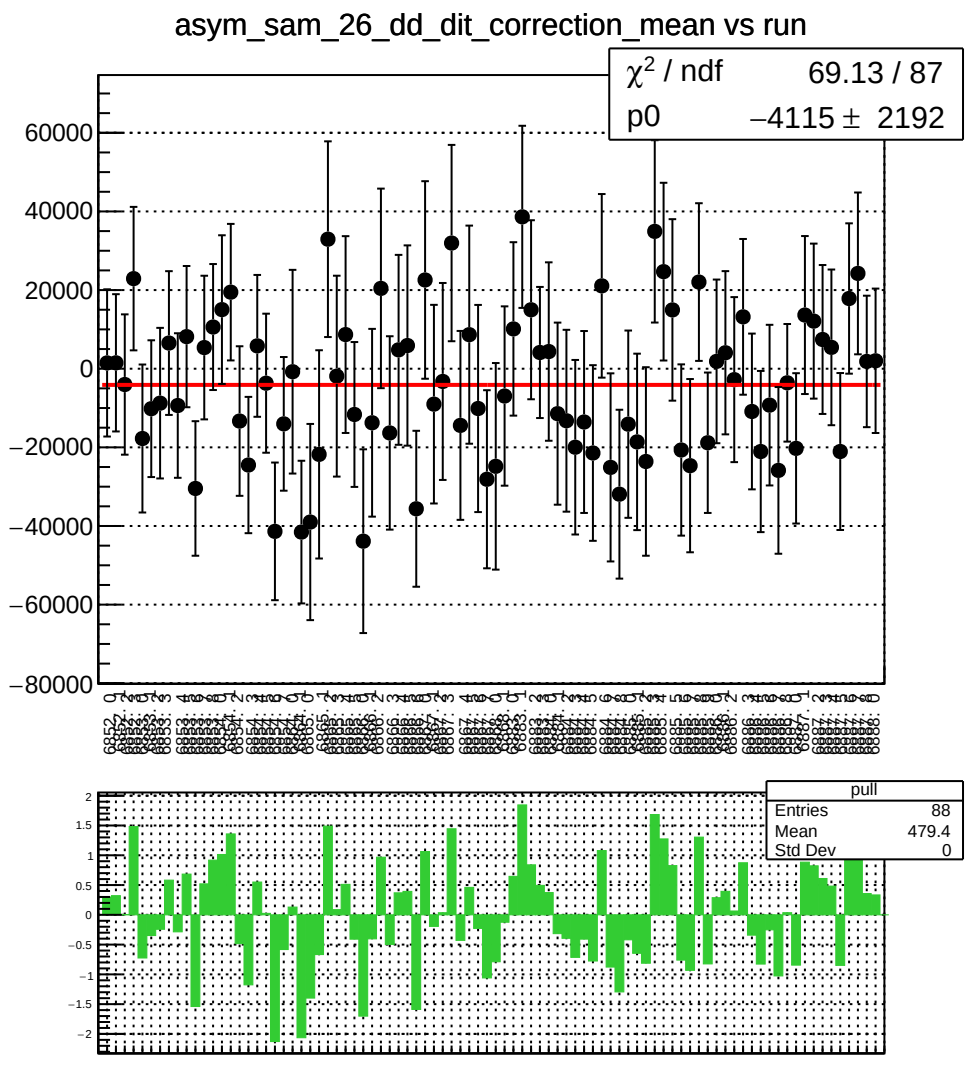

pull1D
Entries 88
Mean 0.003981
Std Dev 0.8834
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

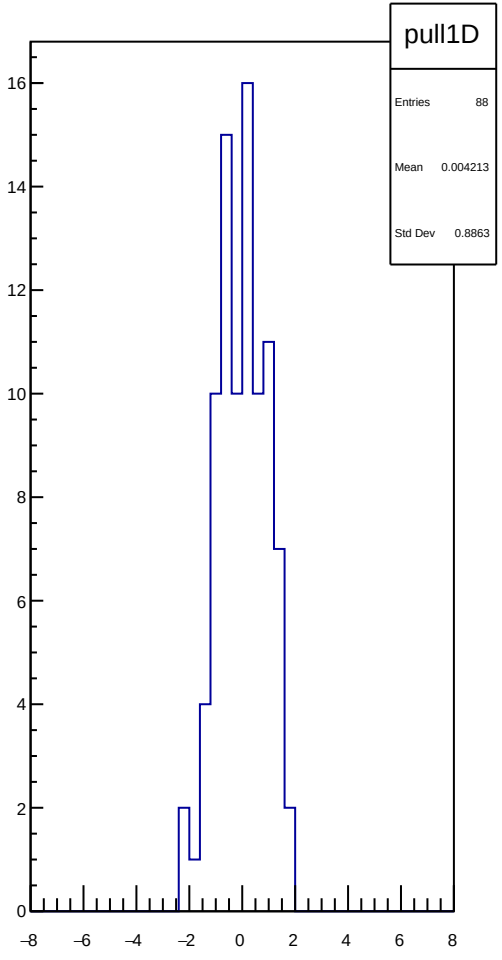

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.007e+04 / 87
p0 1971 ± 1.529
2600
2400
2200
2000
1800
1600

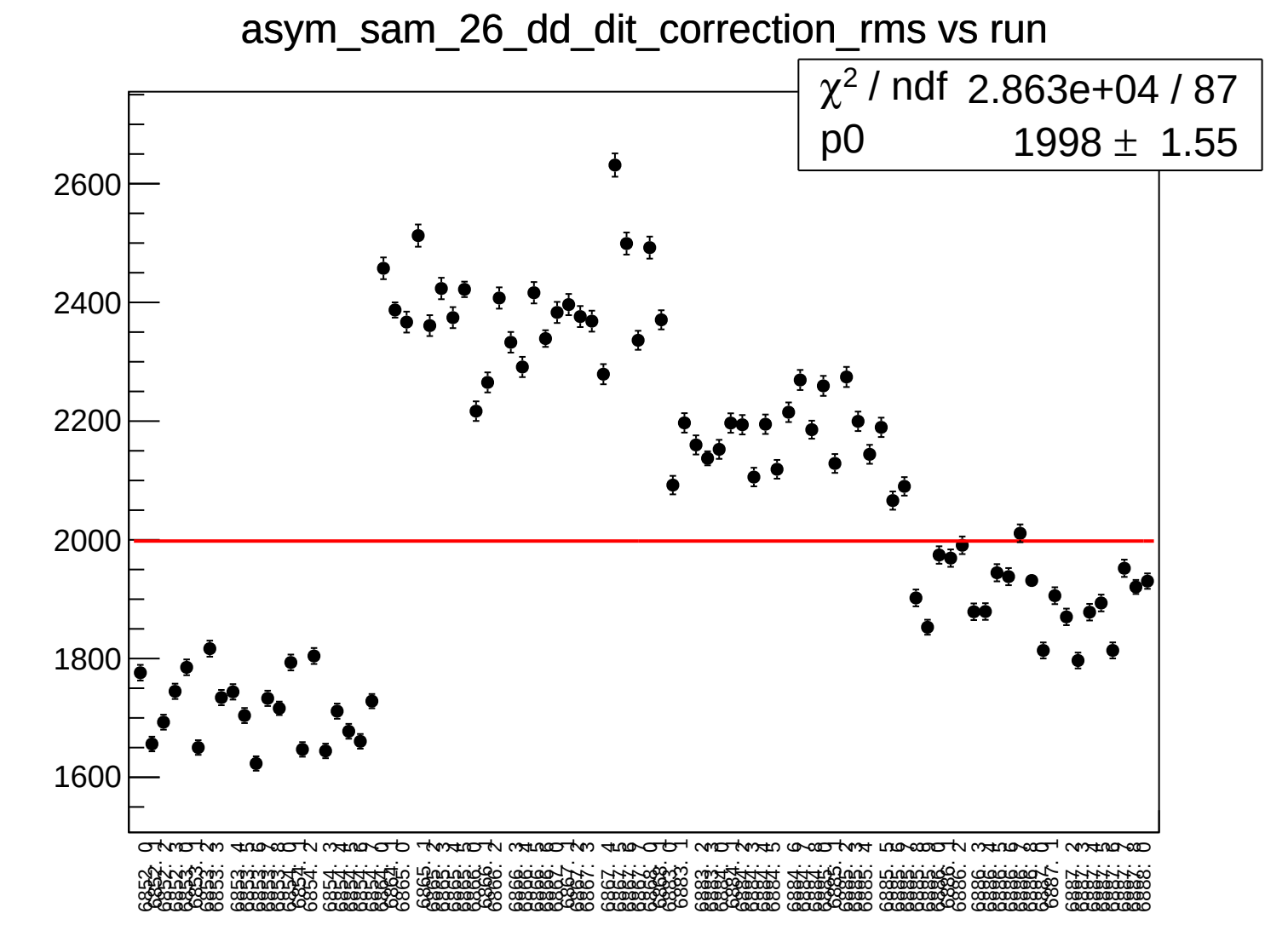

dit_asym_sam_26_dd_mean vs run
χ² / ndf 60 / 87
p0 −539.3 ± 233.6
pull
Entries 88
Mean −52.41
Std Dev 0

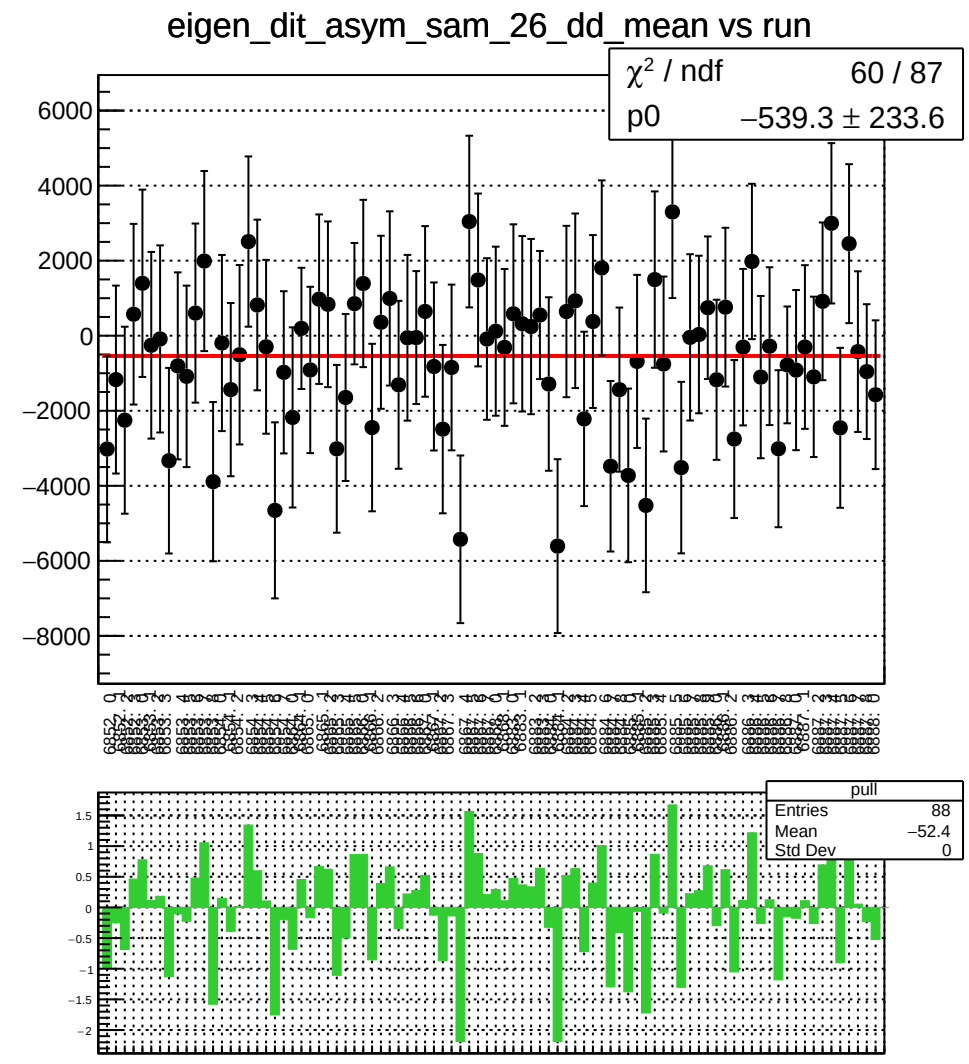

pull1D
Entries 88
Mean −0.009971
Std Dev 0.8256

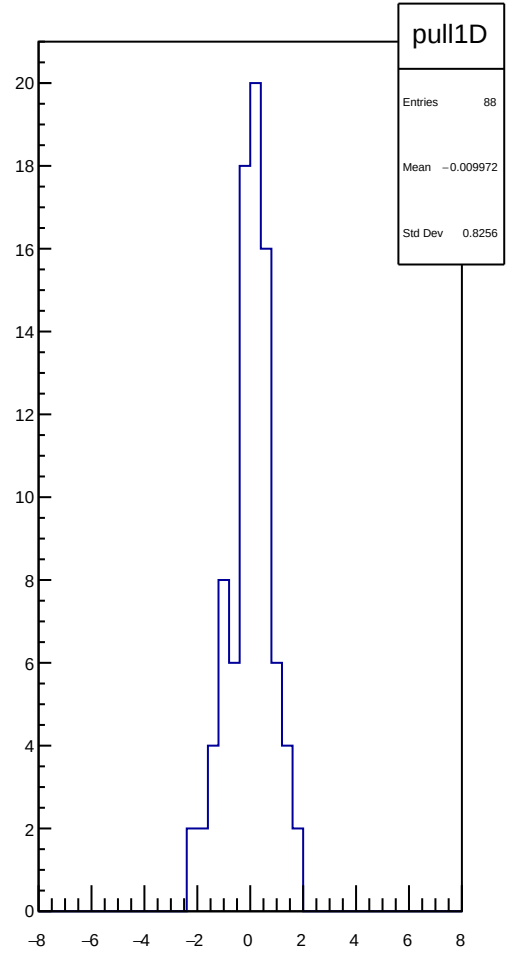

dit_asym_sam_26_dd_rms vs run
χ² / ndf 3969 / 87
p0 214.5 ± 0.1652
240
230
220
210
200

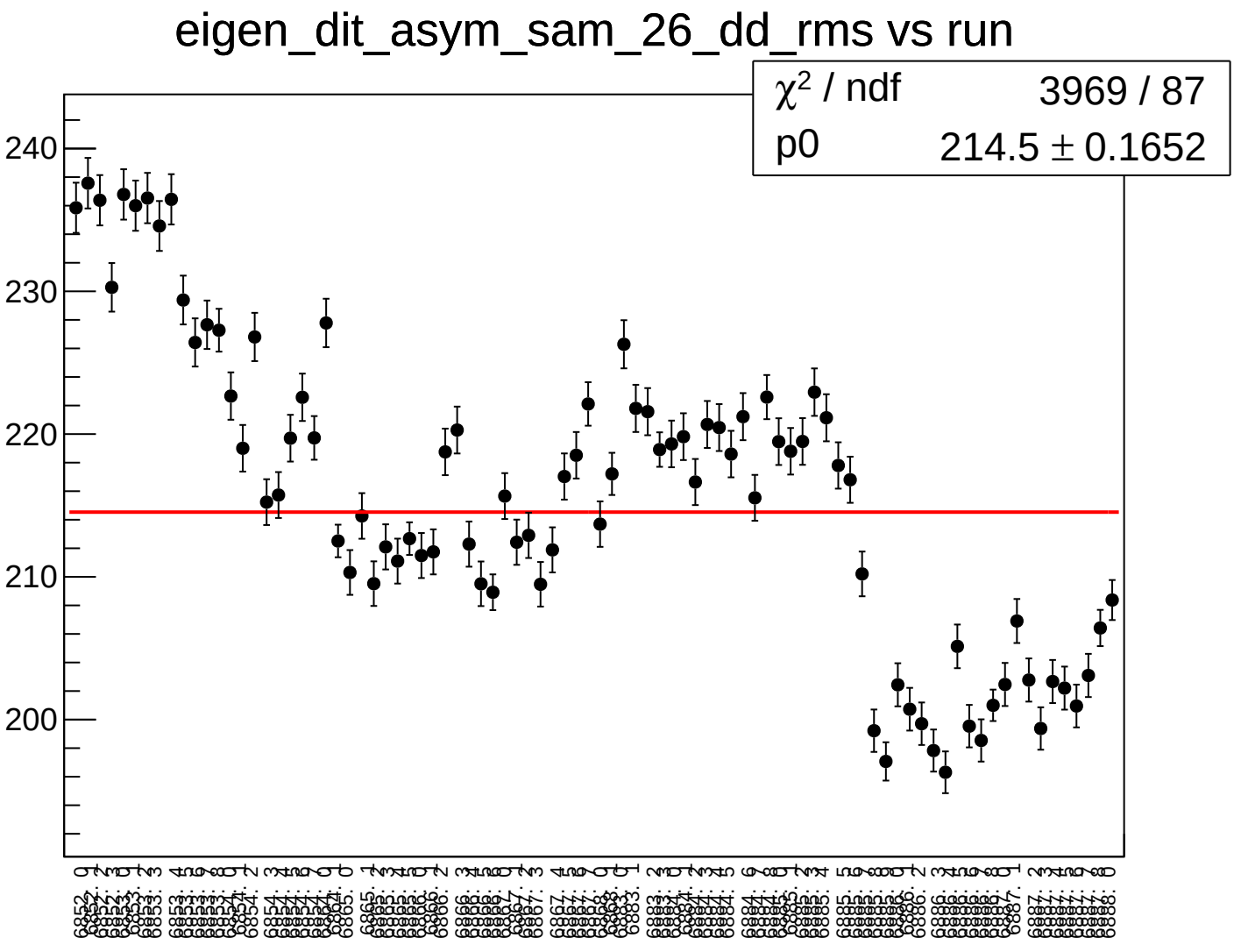

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 69.13 / 87
p0 −4115 ± 2192
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 479.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

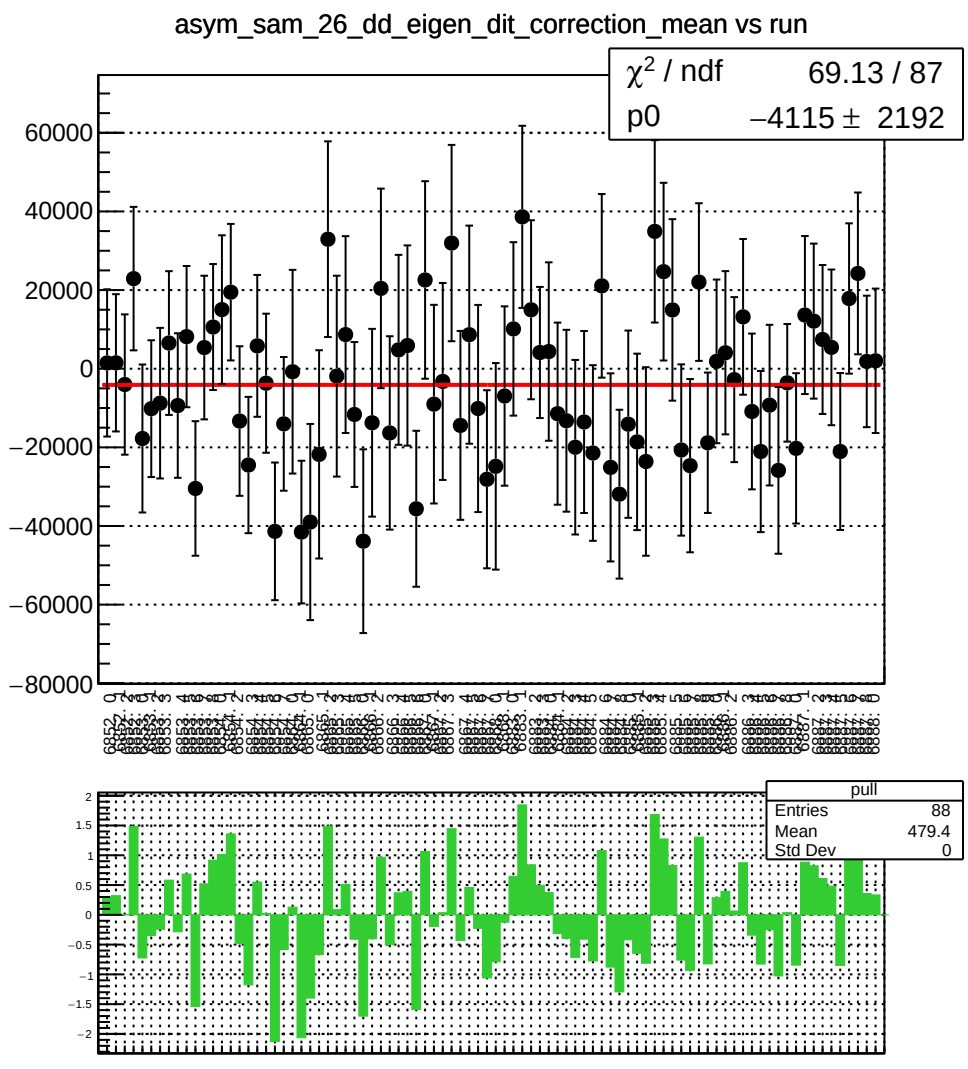

pull1D
Entries 88
Mean 0.004213
Std Dev 0.8863
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

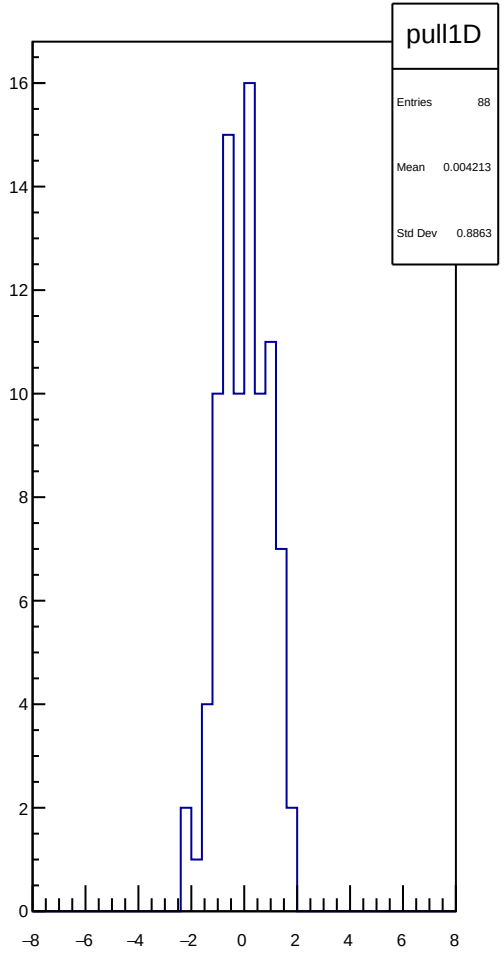

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 2.863e+04 / 87
p0 1998 ± 1.55
2600
2400
2200
2000
1800
1600

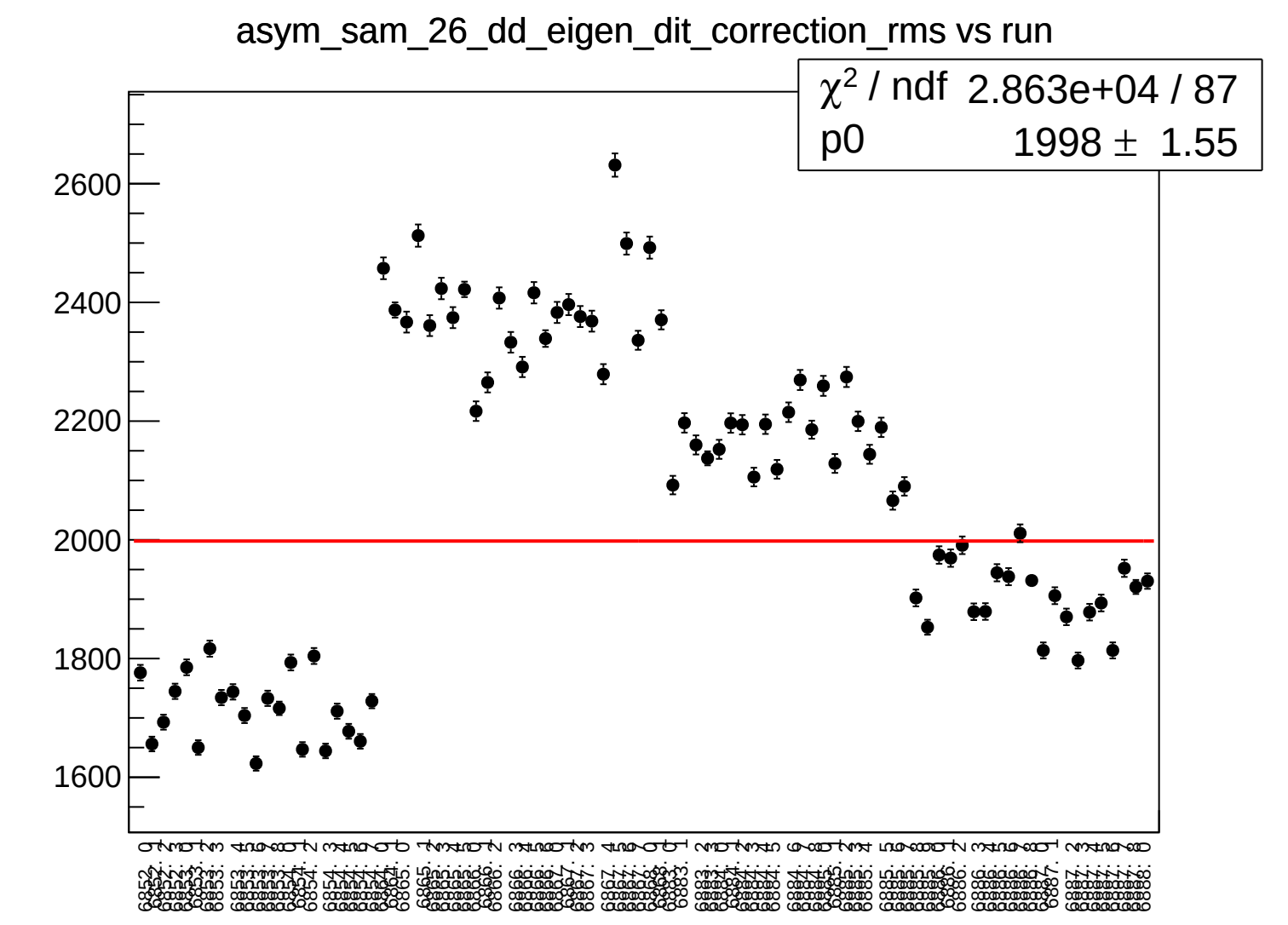

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 60 / 87
p0 −539.3 ± 233.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean −52.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

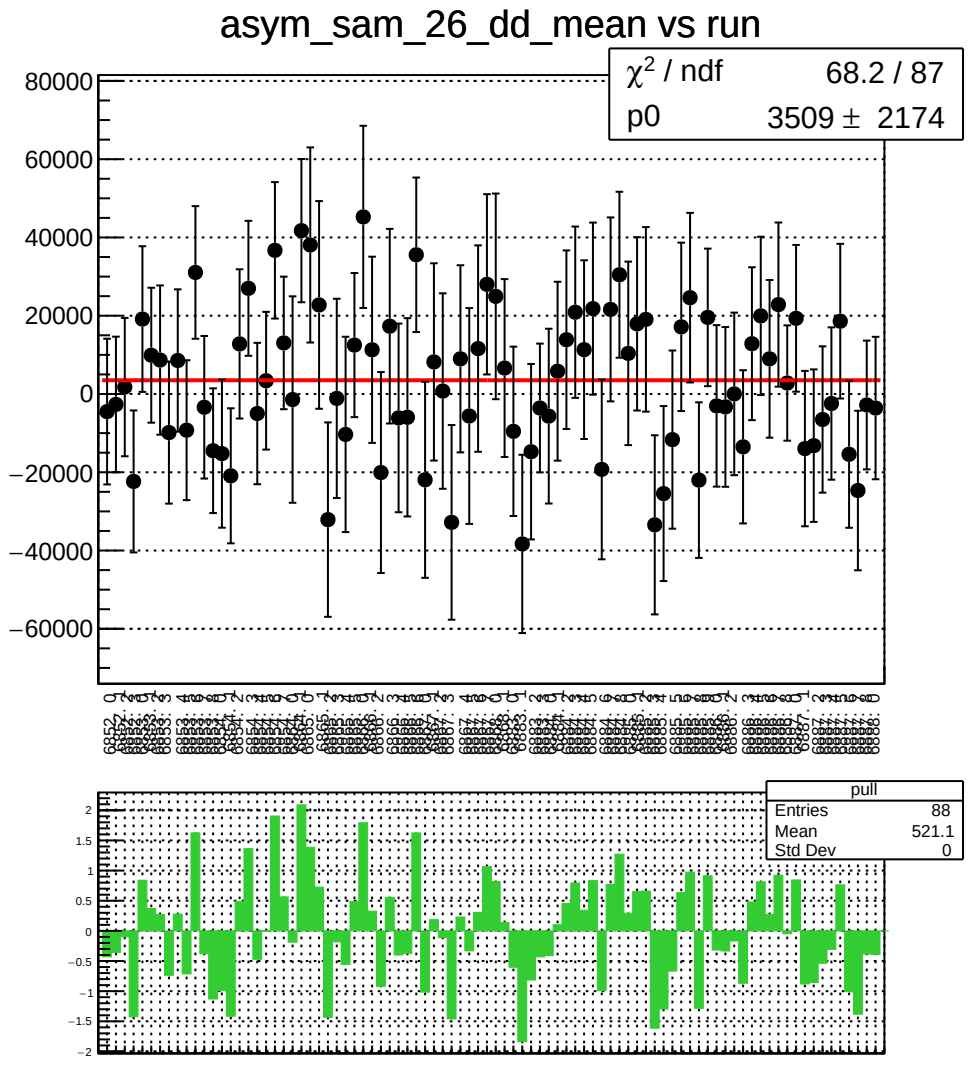

pull1D
Entries 88
Mean −0.009972
Std Dev 0.8256
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

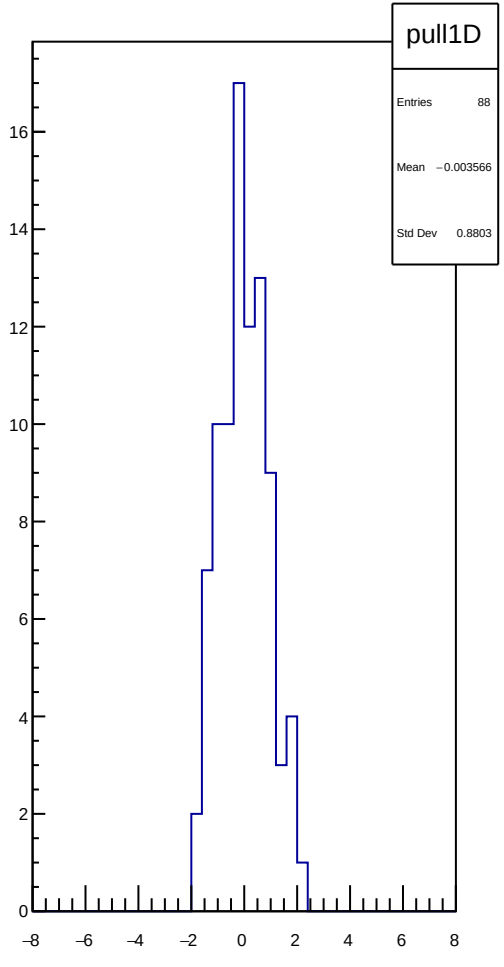

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 3969 / 87
p0 214.5 ± 0.1652
240
230
220
210
200

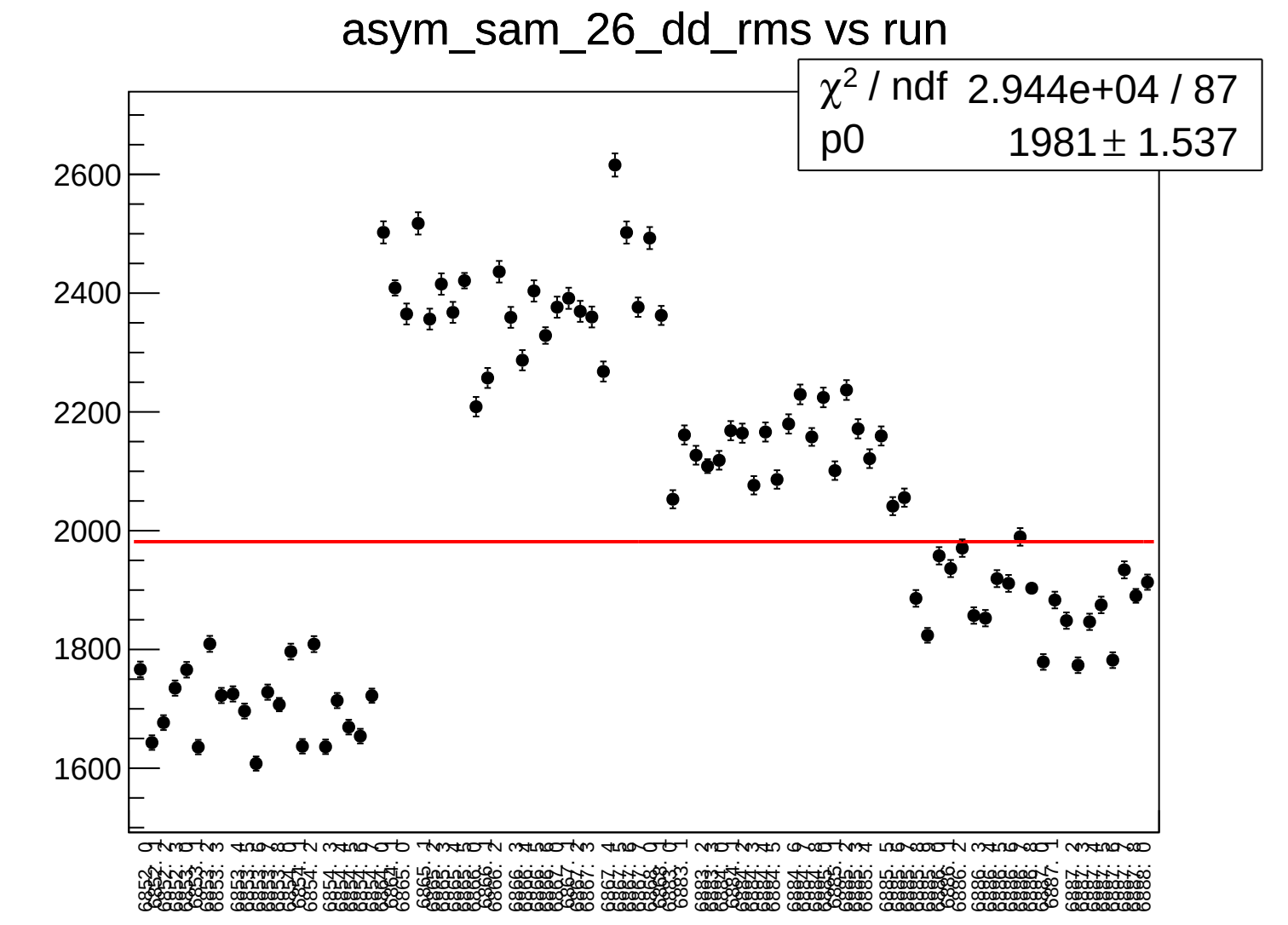

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.13 / 87
p0 −4115 ± 2192
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 88
Mean 479.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

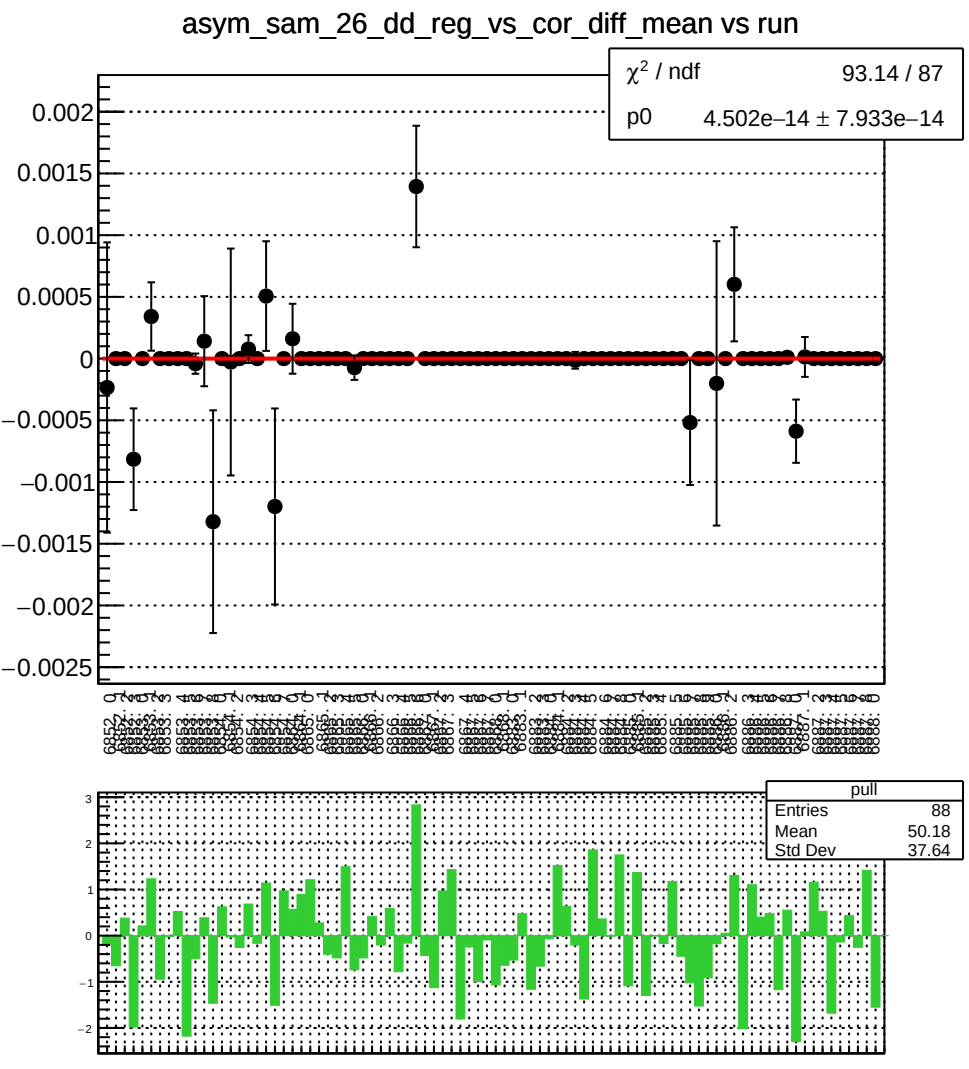

pull1D
Entries 88
Mean 0.004213
Std Dev 0.8863
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

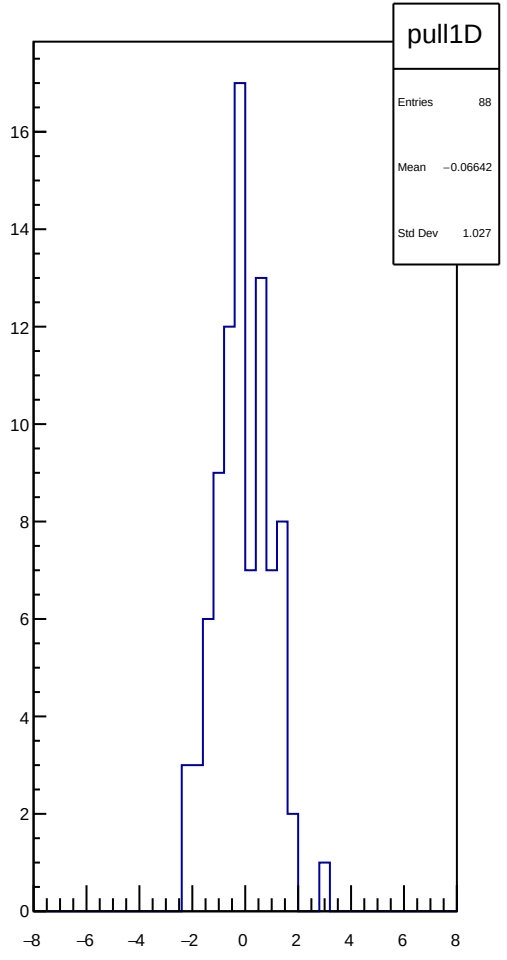

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.863e+04 / 87
p0 1998 ± 1.55
2600
2400
2200
2000
1800
1600

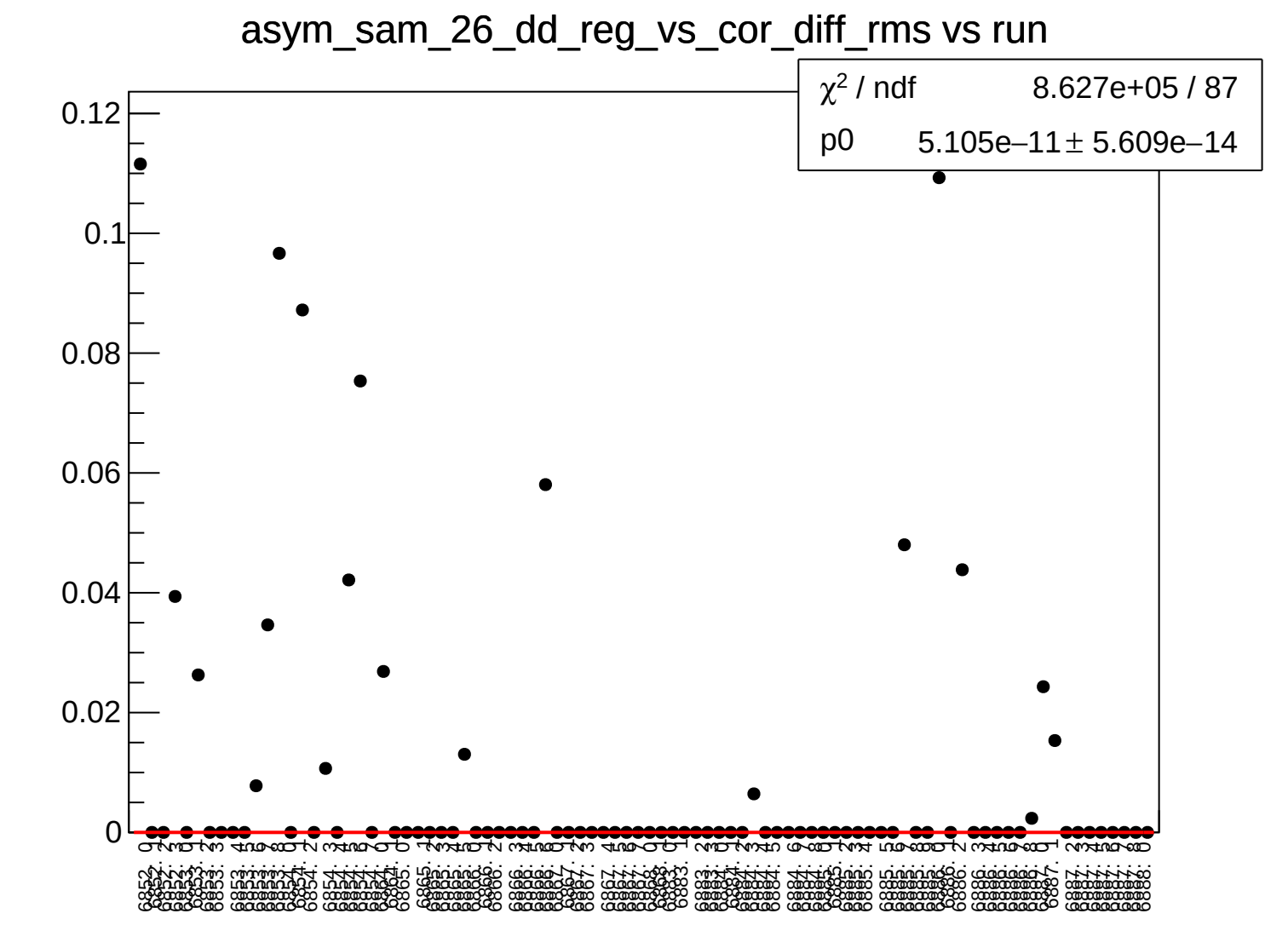

asym_sam_26_dd_mean vs run
χ² / ndf 68.2 / 87
p0 3509 ± 2174
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 88
Mean 521.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

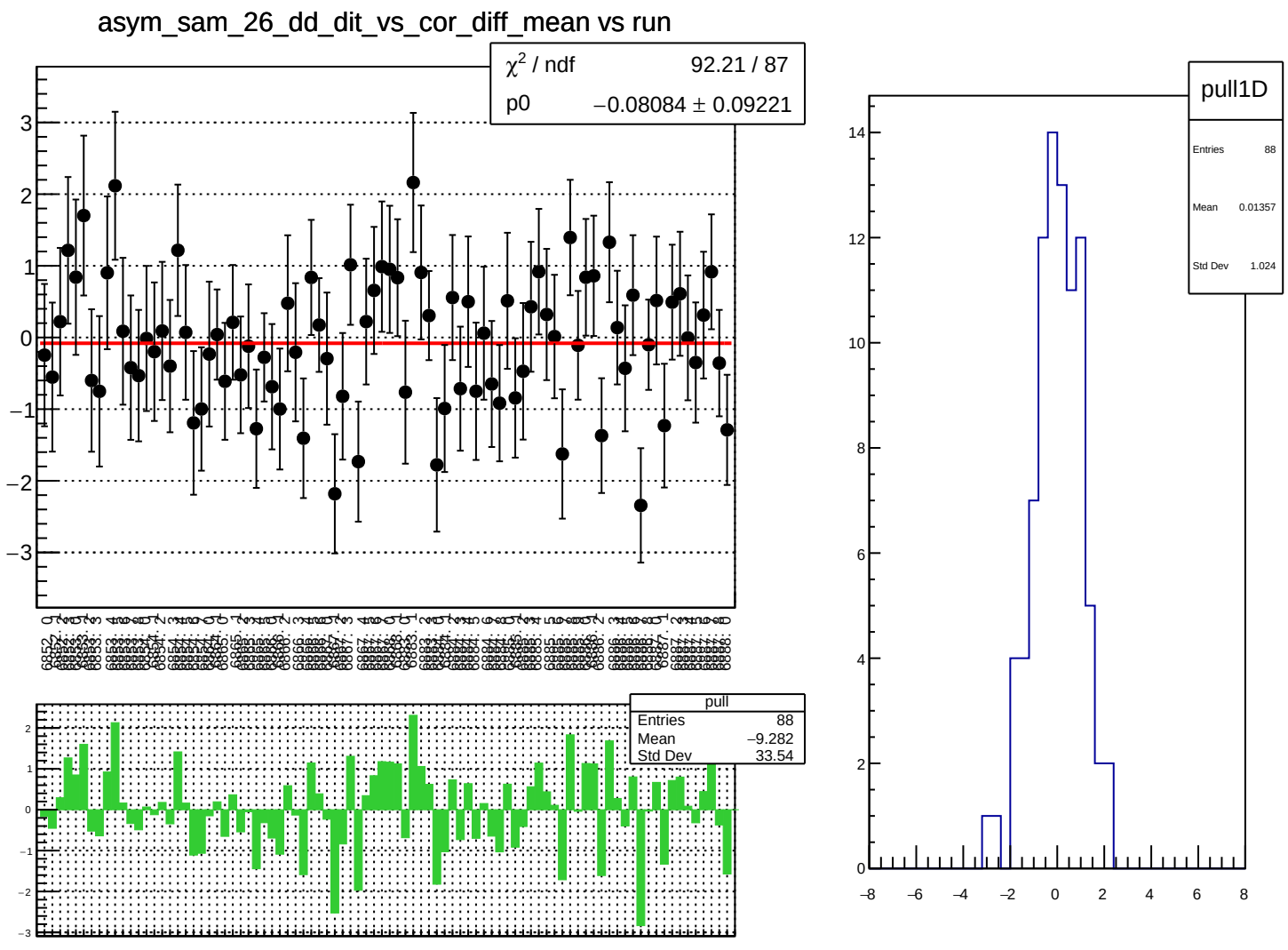

pull1D
Entries 88
Mean −0.003566
Std Dev 0.8803
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

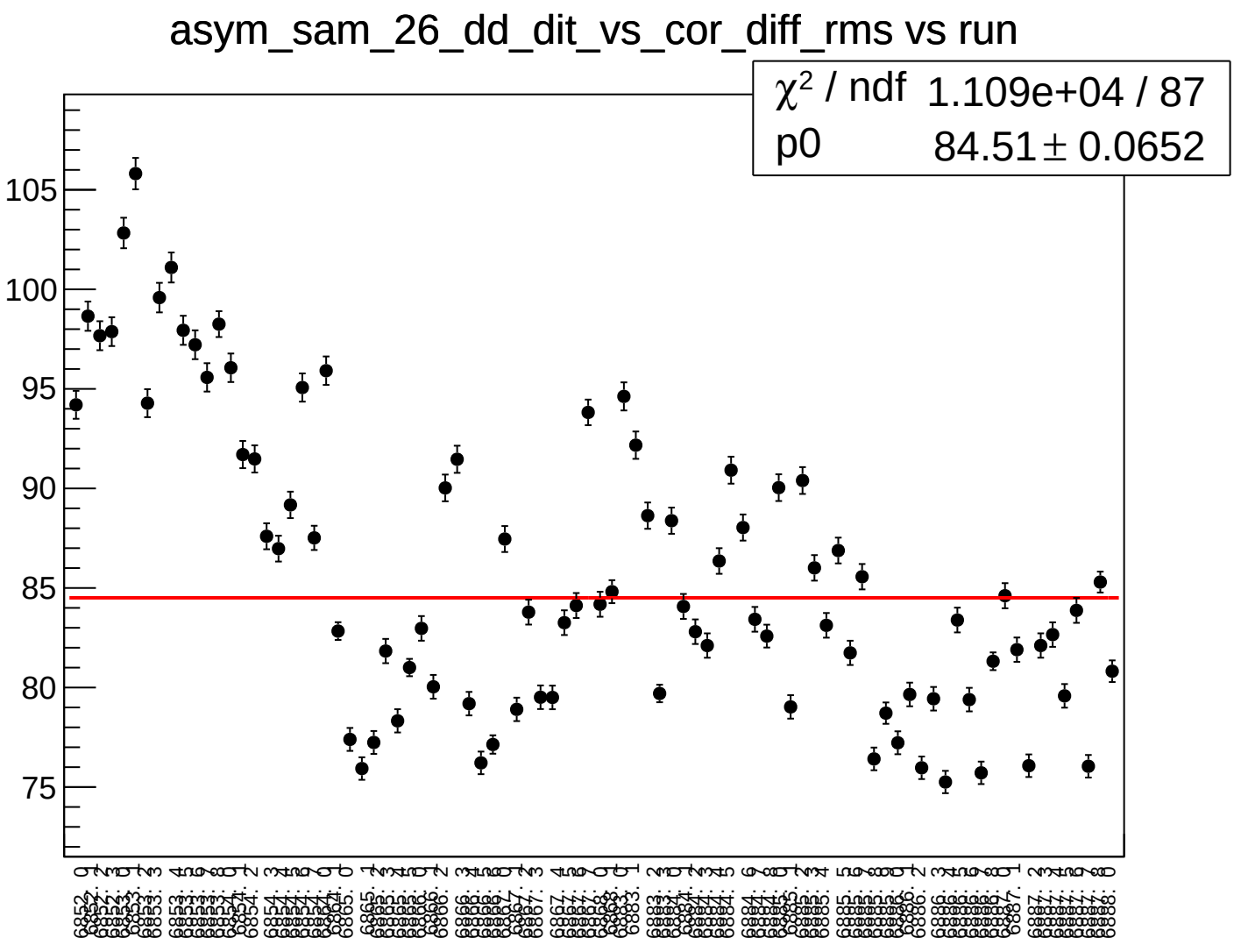

asym_sam_26_dd_rms vs run
χ² / ndf 2.944e+04 / 87
p0 1981 ± 1.537
2600
2400
2200
2000
1800
1600

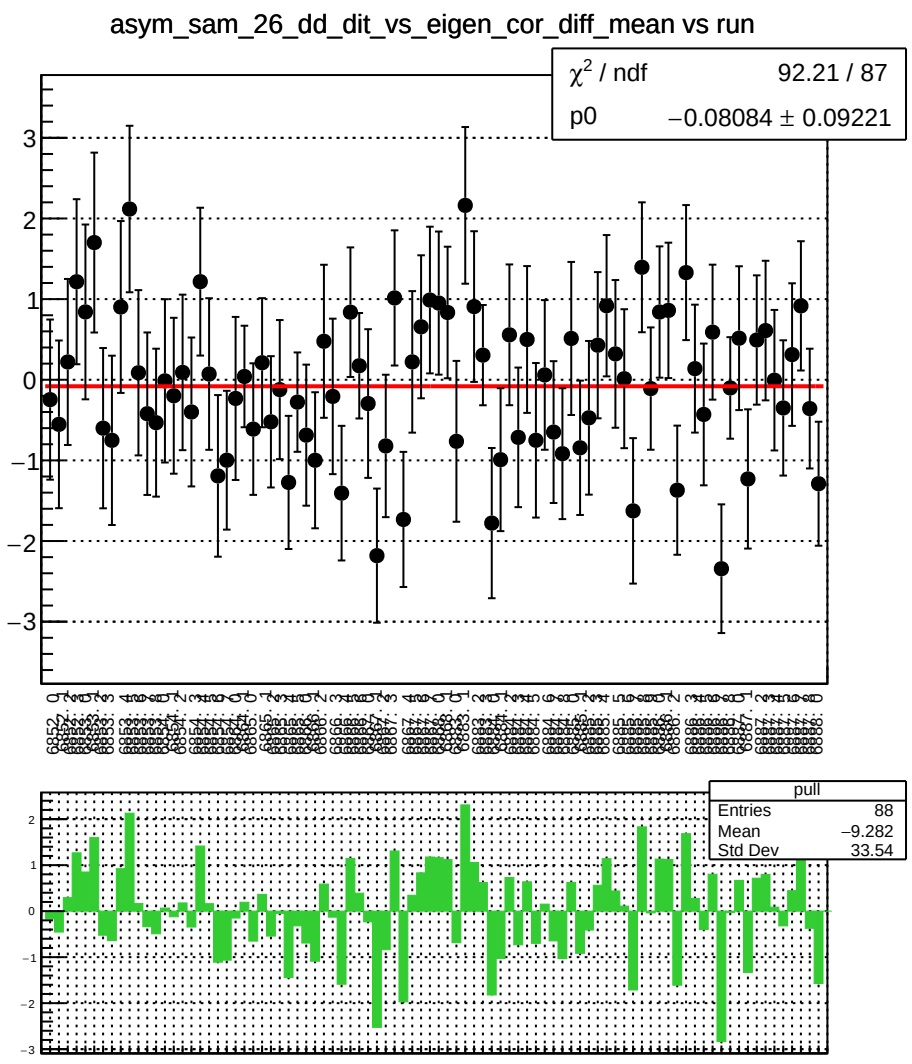

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.14 / 87
p0 4.502e−14 ± 7.933e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 88
Mean 50.18
Std Dev 37.64
3
2
1
0
−1
−2

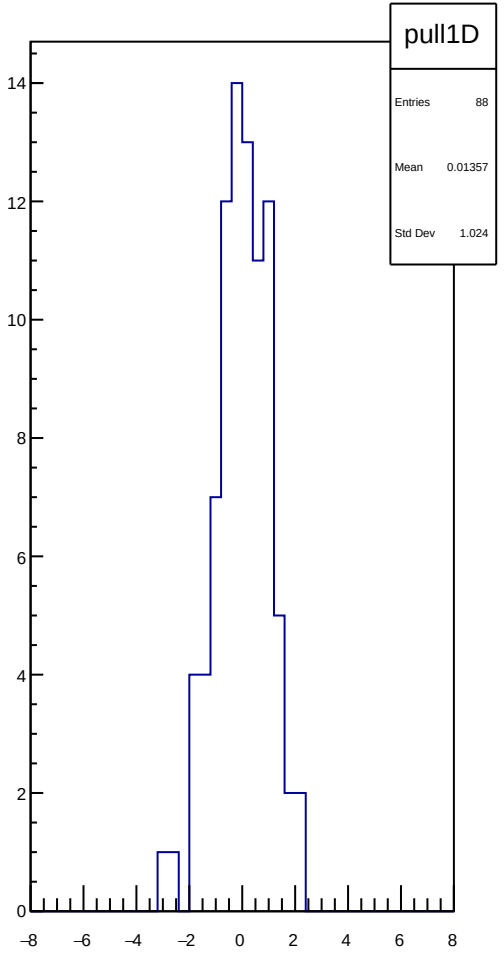

pull1D
Entries 88
Mean −0.06642
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

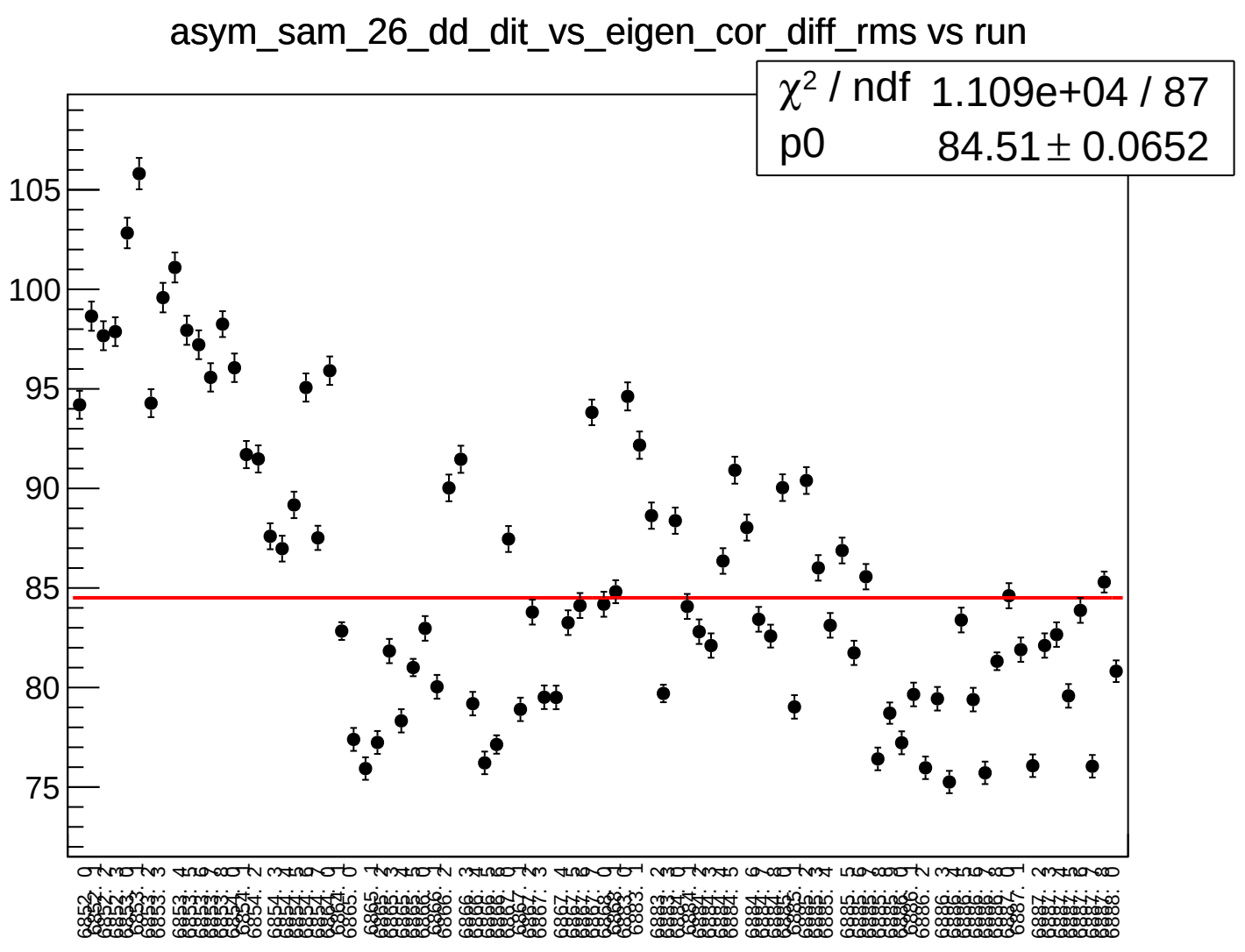

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.627e+05 / 87
p0 5.105e−11 ± 5.609e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

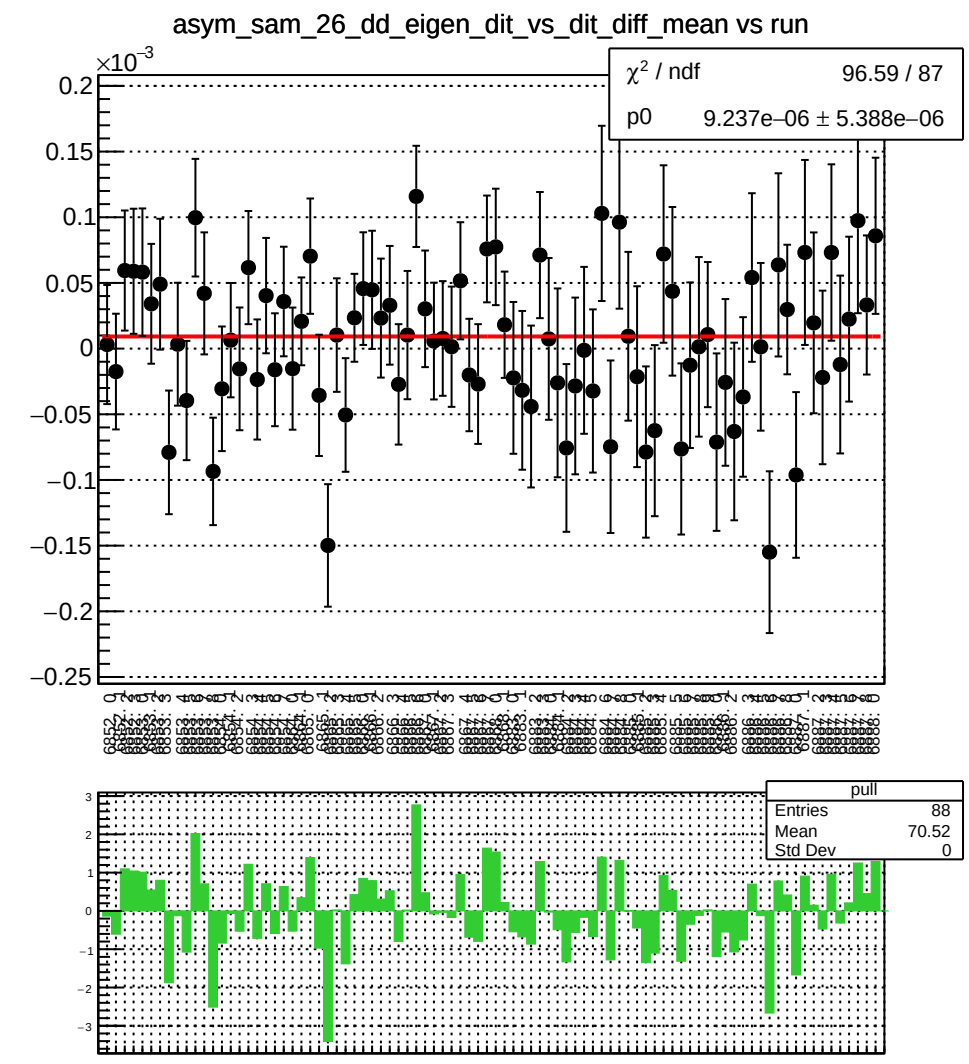

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.21 / 87
p0 −0.08084 ± 0.09221
pull
Entries 88
Mean −9.282
Std Dev 33.54
pull1D
Entries 88
Mean 0.01357
Std Dev 1.024

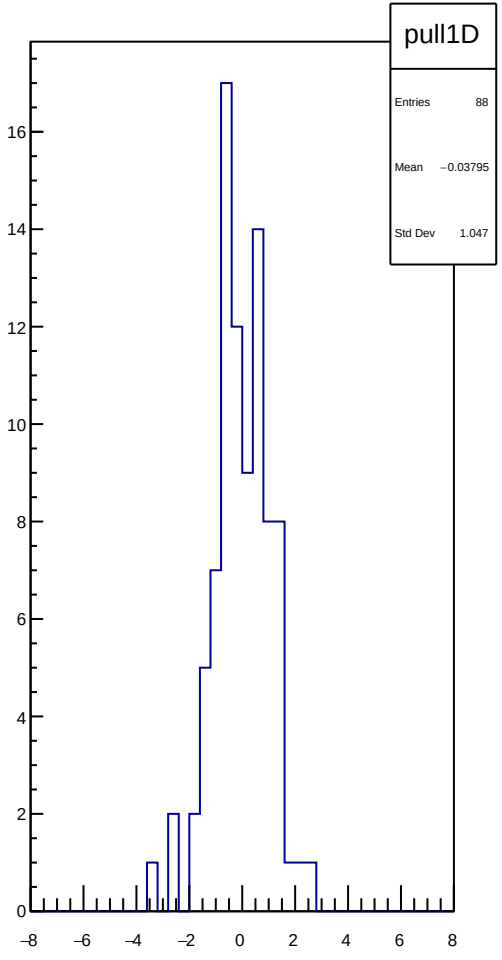

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.109e+04 / 87
p0 84.51 ± 0.0652
105
100
95
90
85
80
75

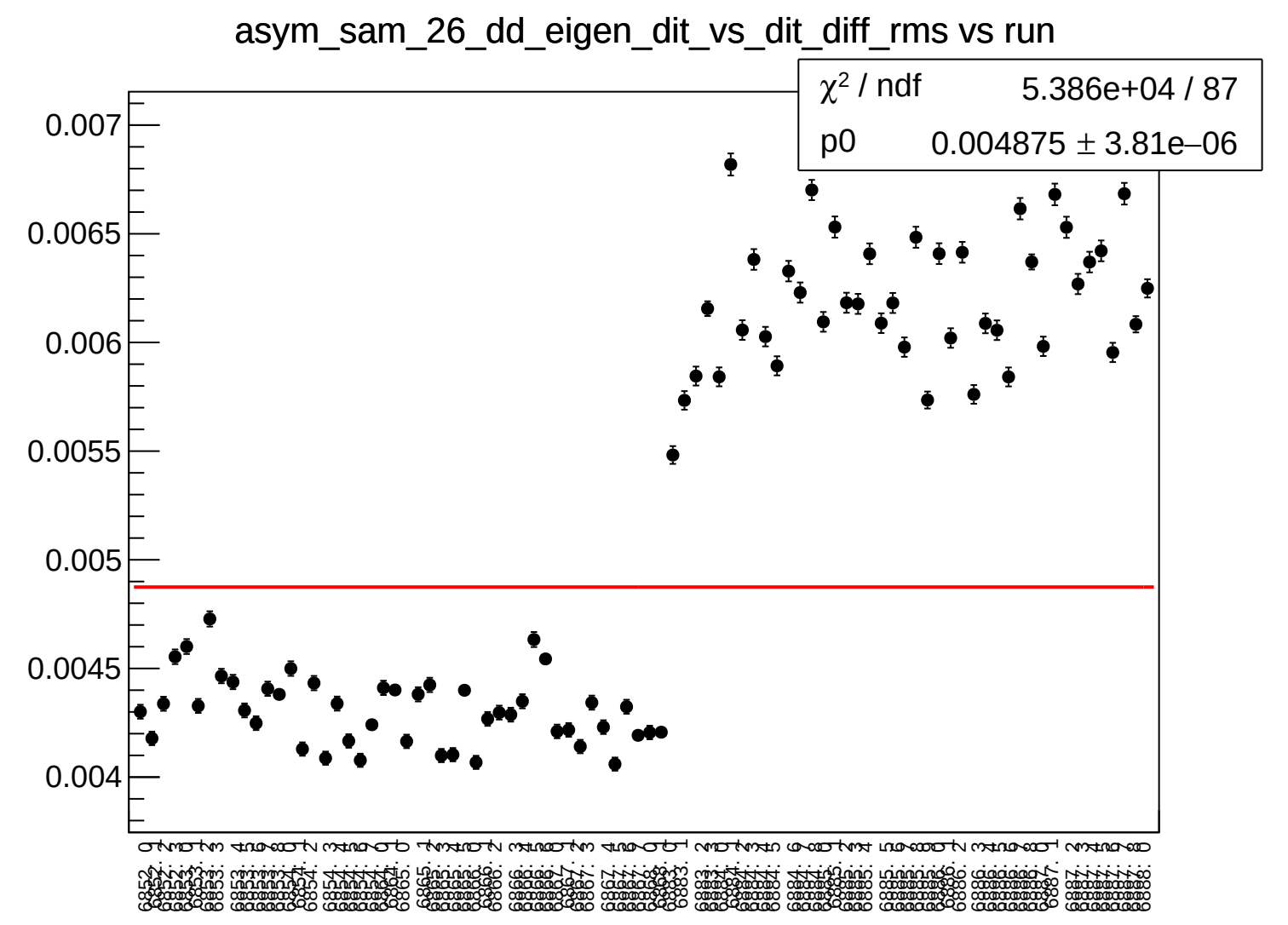

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.21 / 87
p0 −0.08084 ± 0.09221
pull
Entries 88
Mean −9.282
Std Dev 33.54

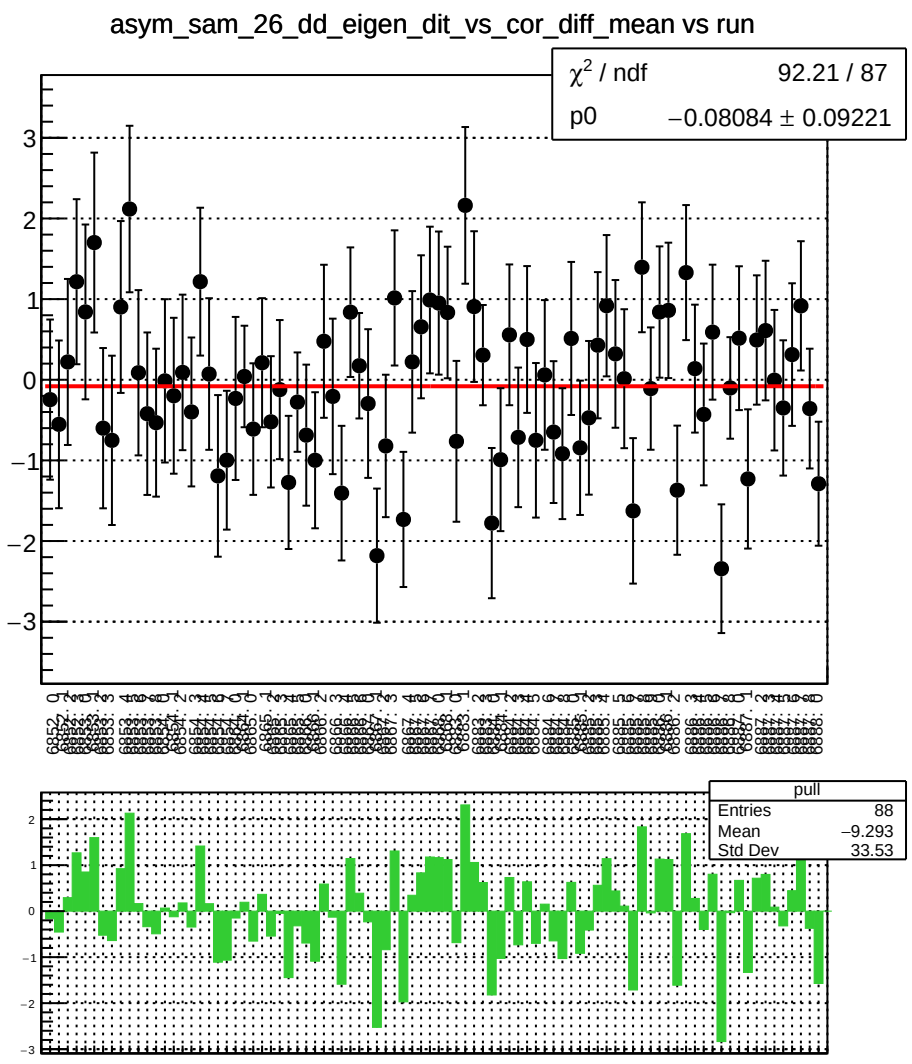

pull1D
Entries 88
Mean 0.01357
Std Dev 1.024

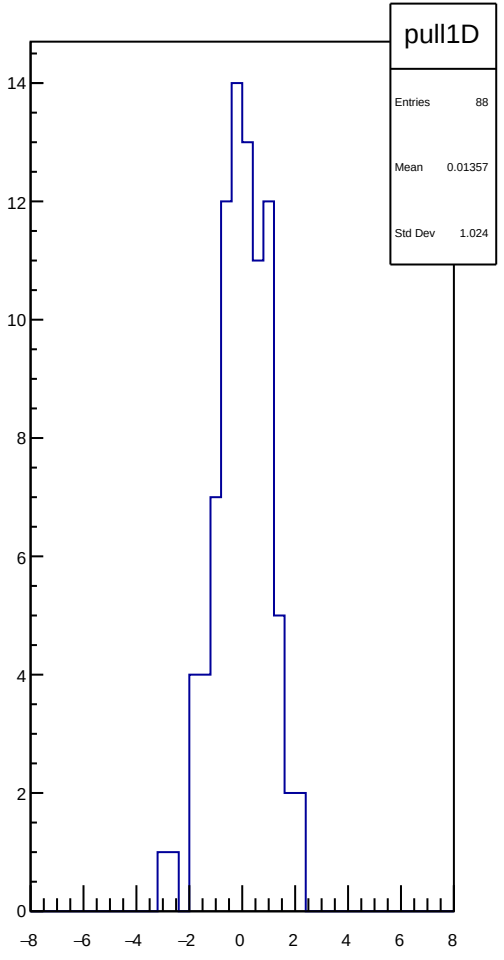

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.109e+04 / 87
p0 84.51 ± 0.0652
105
100
95
90
85
80
75

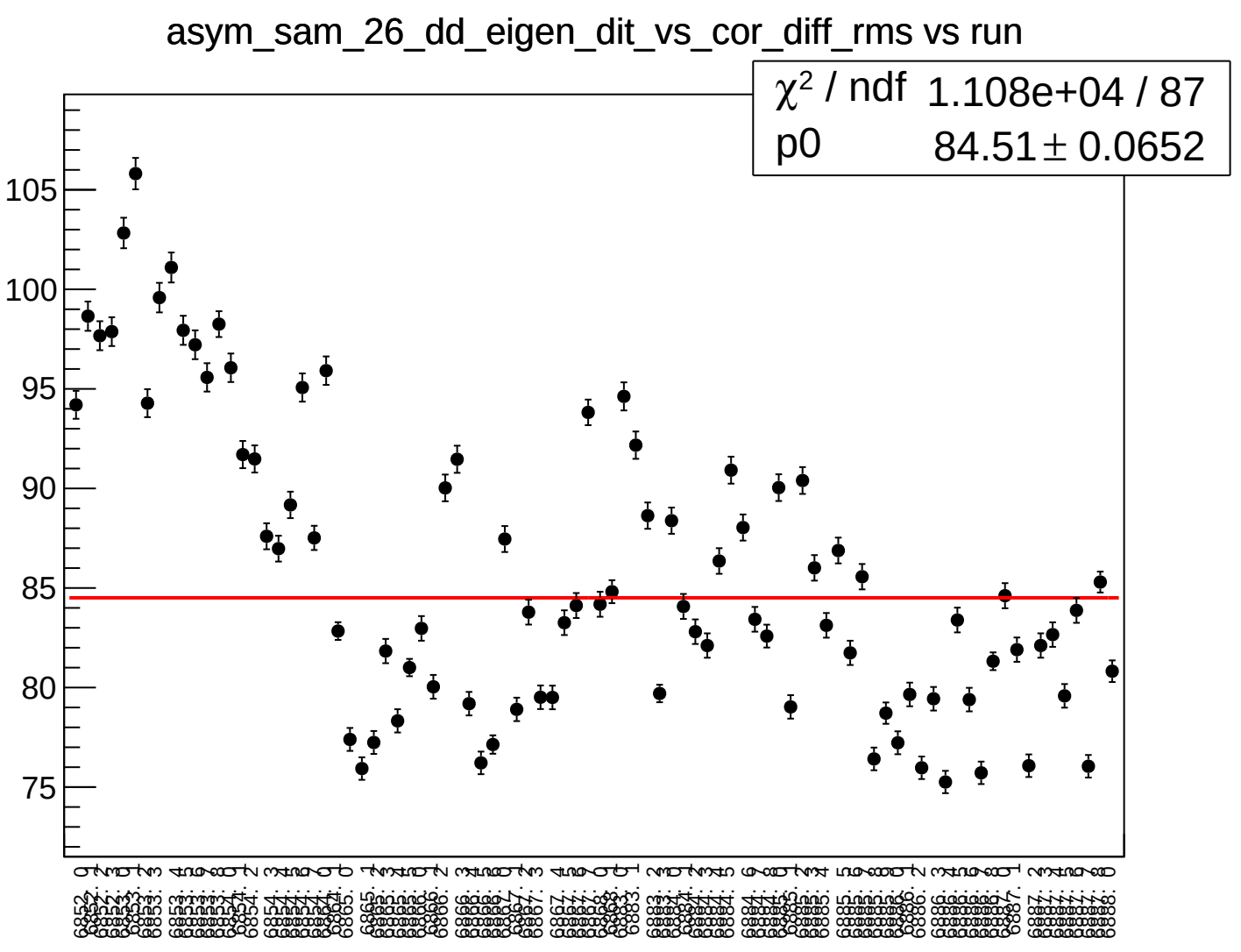

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.59 / 87
p0 9.237e−06 ± 5.388e−06
pull
Entries 88
Mean 70.52
Std Dev 0

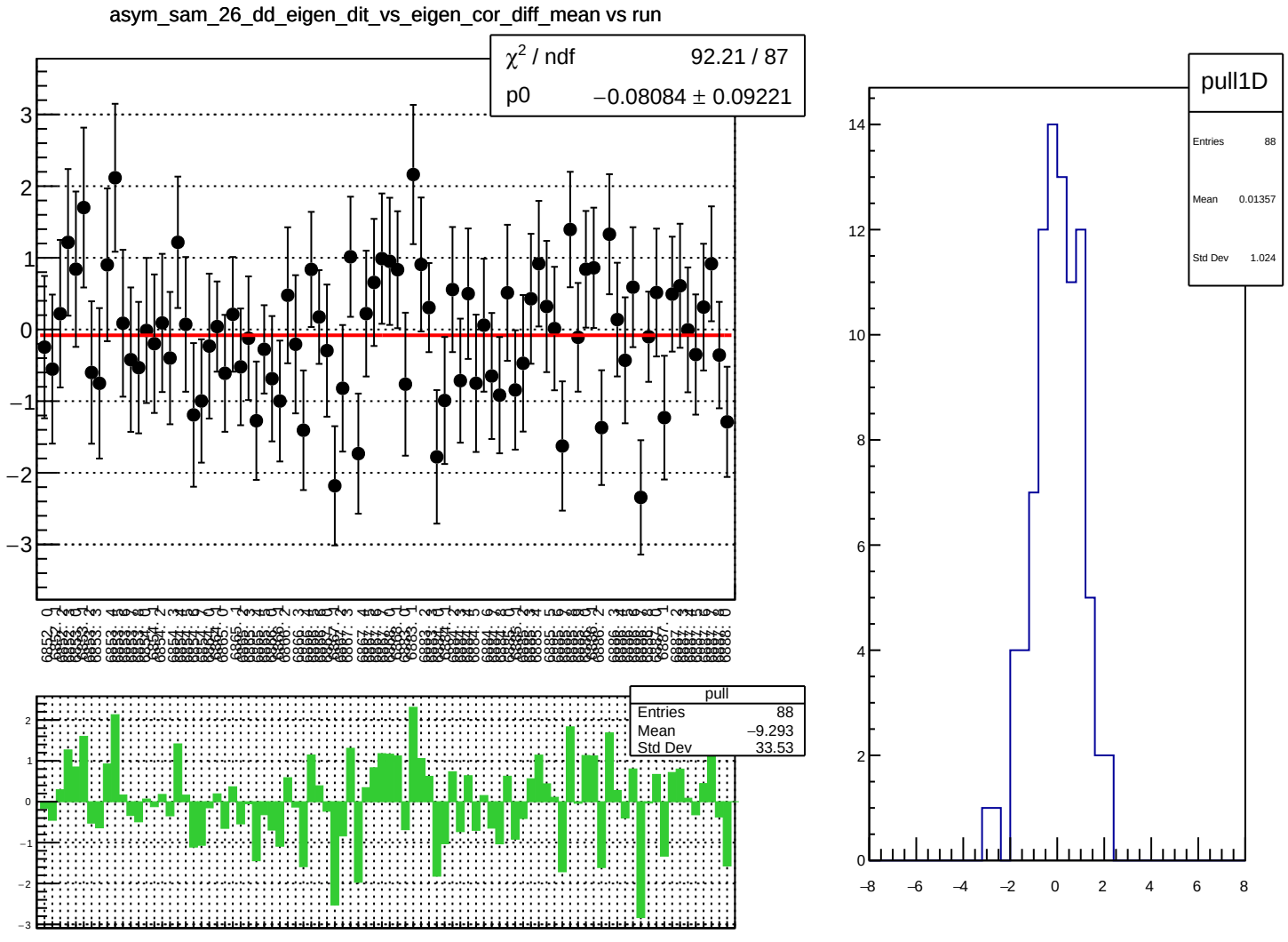

pull1D
Entries 88
Mean −0.03795
Std Dev 1.047

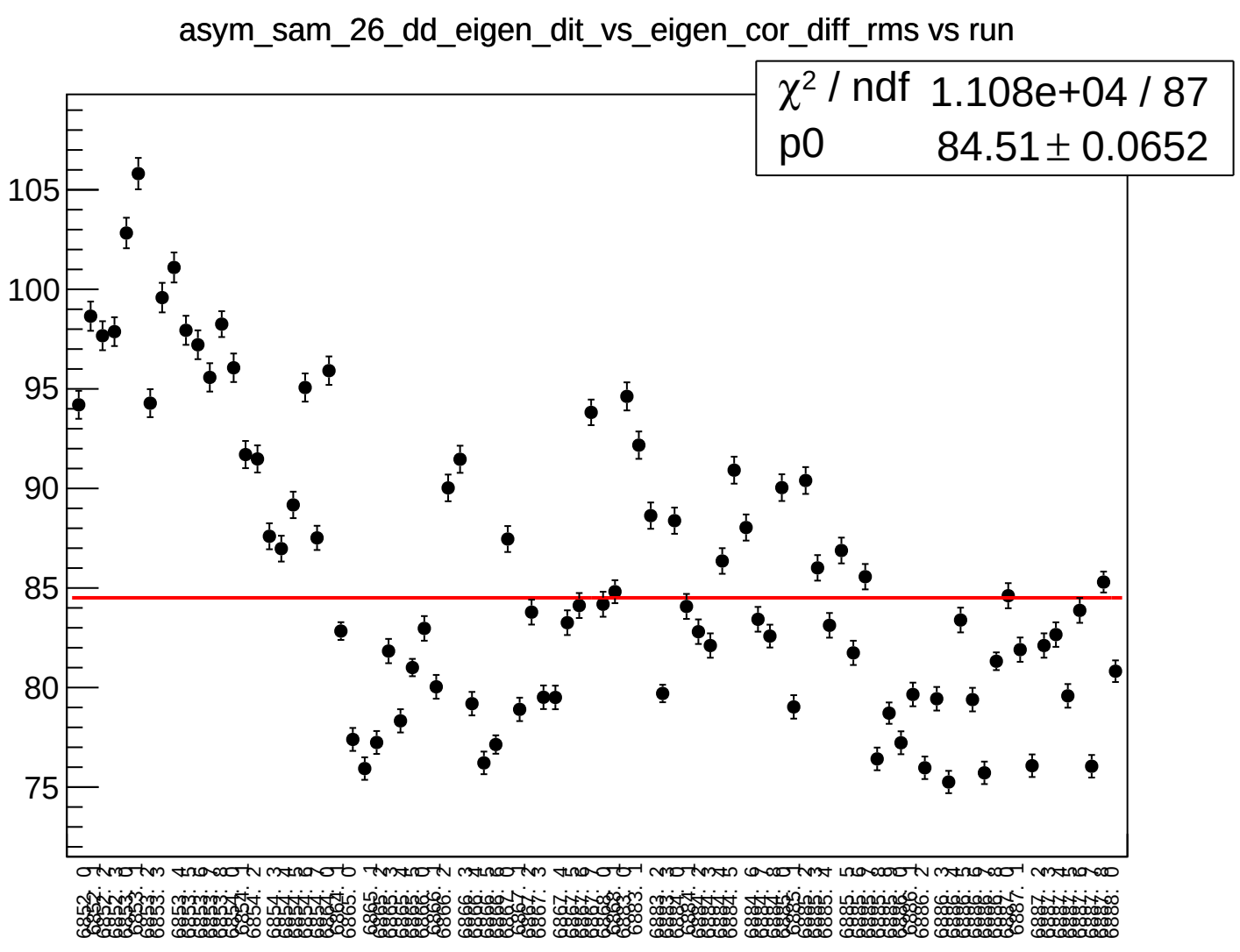

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.386e+04 / 87
p0 0.004875 ± 3.81e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

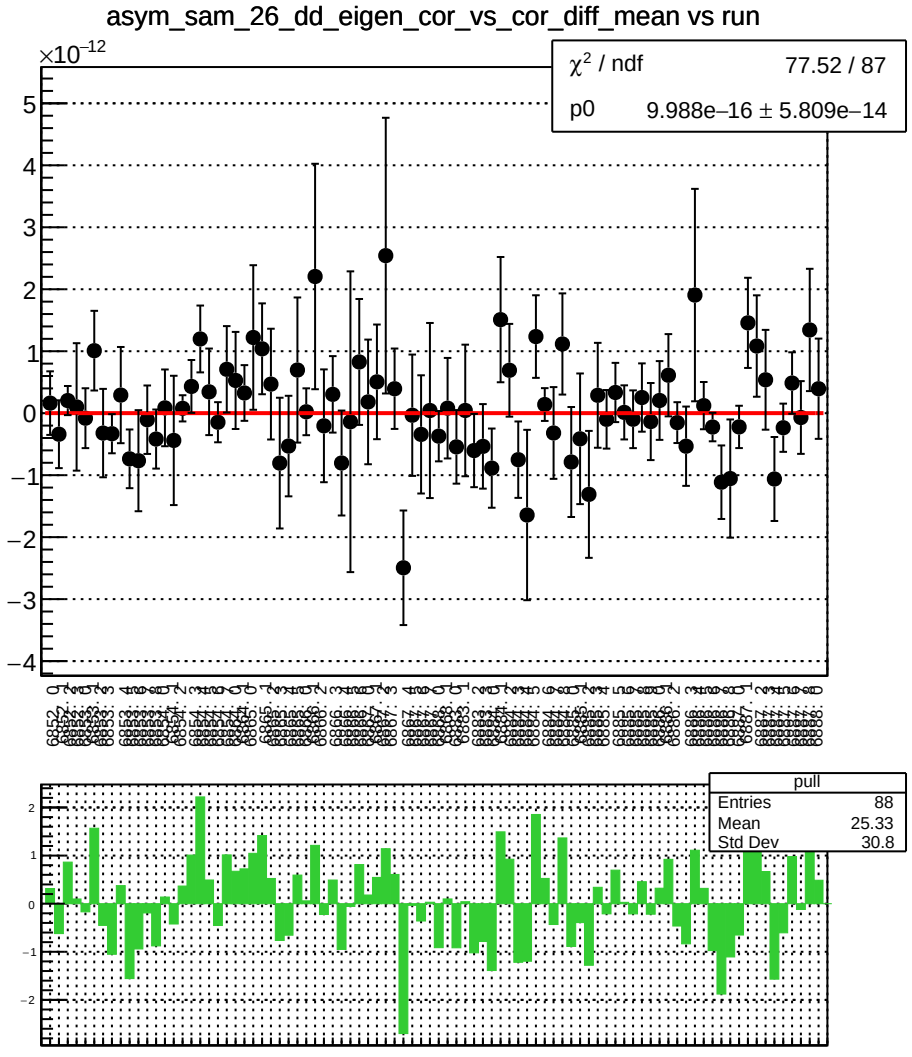

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.21 / 87
p0 −0.08084 ± 0.09221
pull
Entries 88
Mean −9.293
Std Dev 33.53

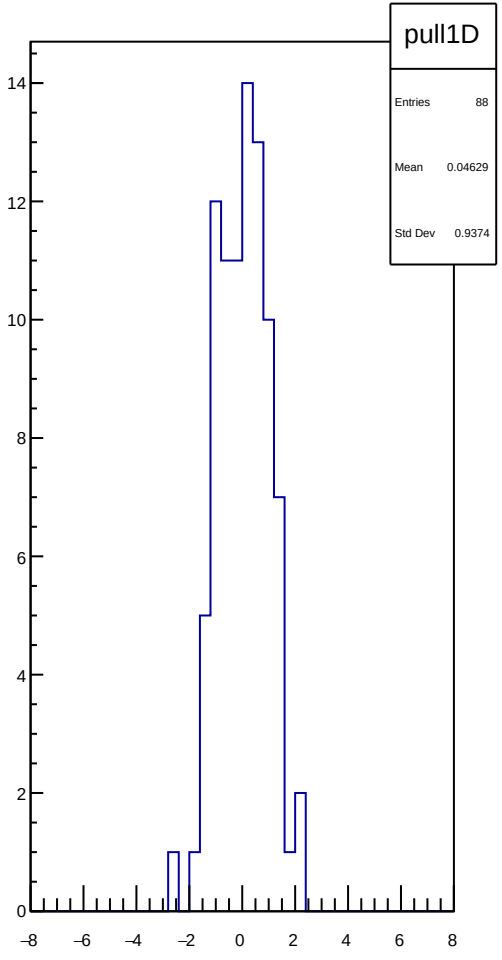

pull1D
Entries 88
Mean 0.01357
Std Dev 1.024

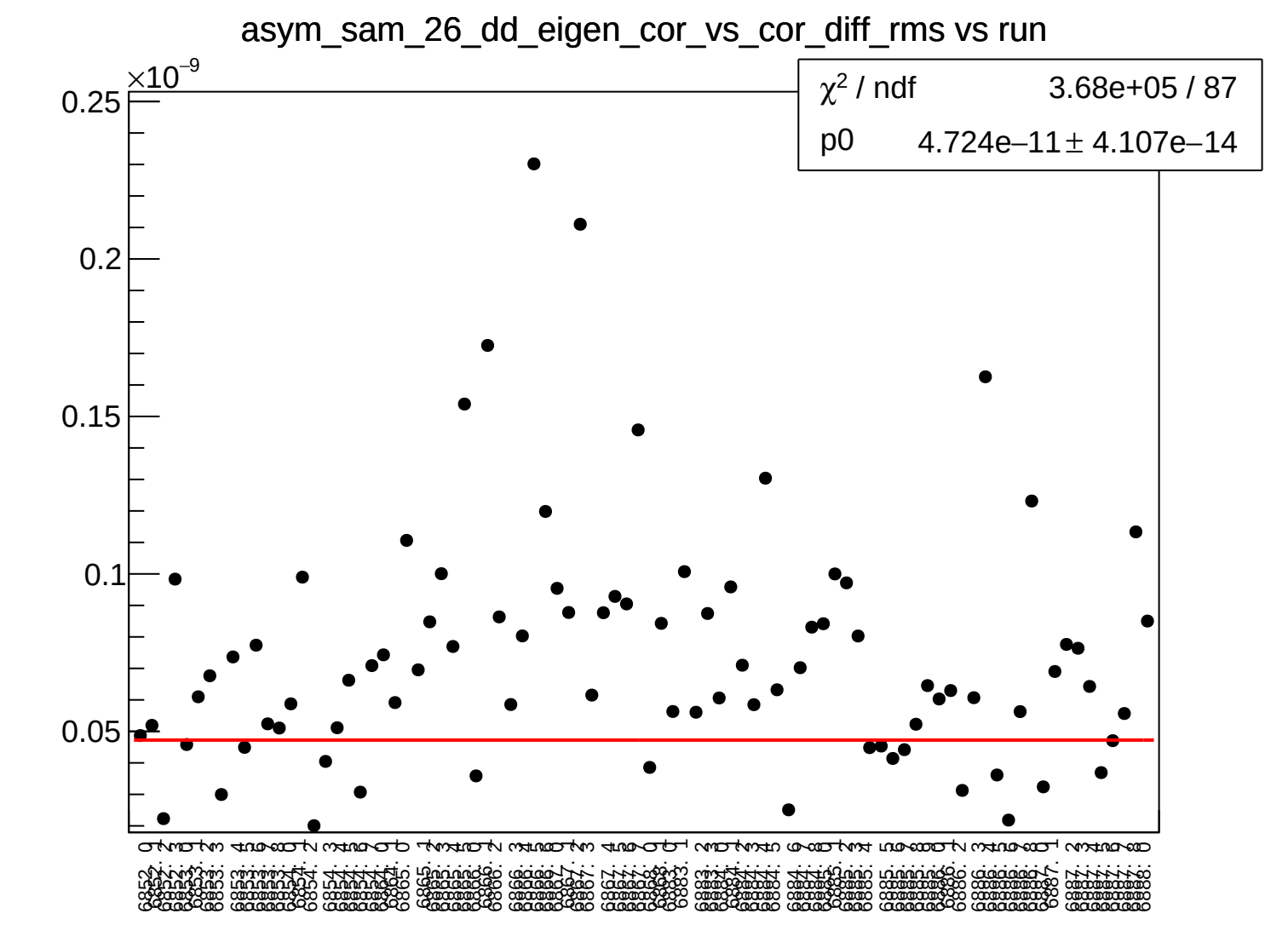

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.108e+04 / 87
p0 84.51 ± 0.0652
105
100
95
90
85
80
75

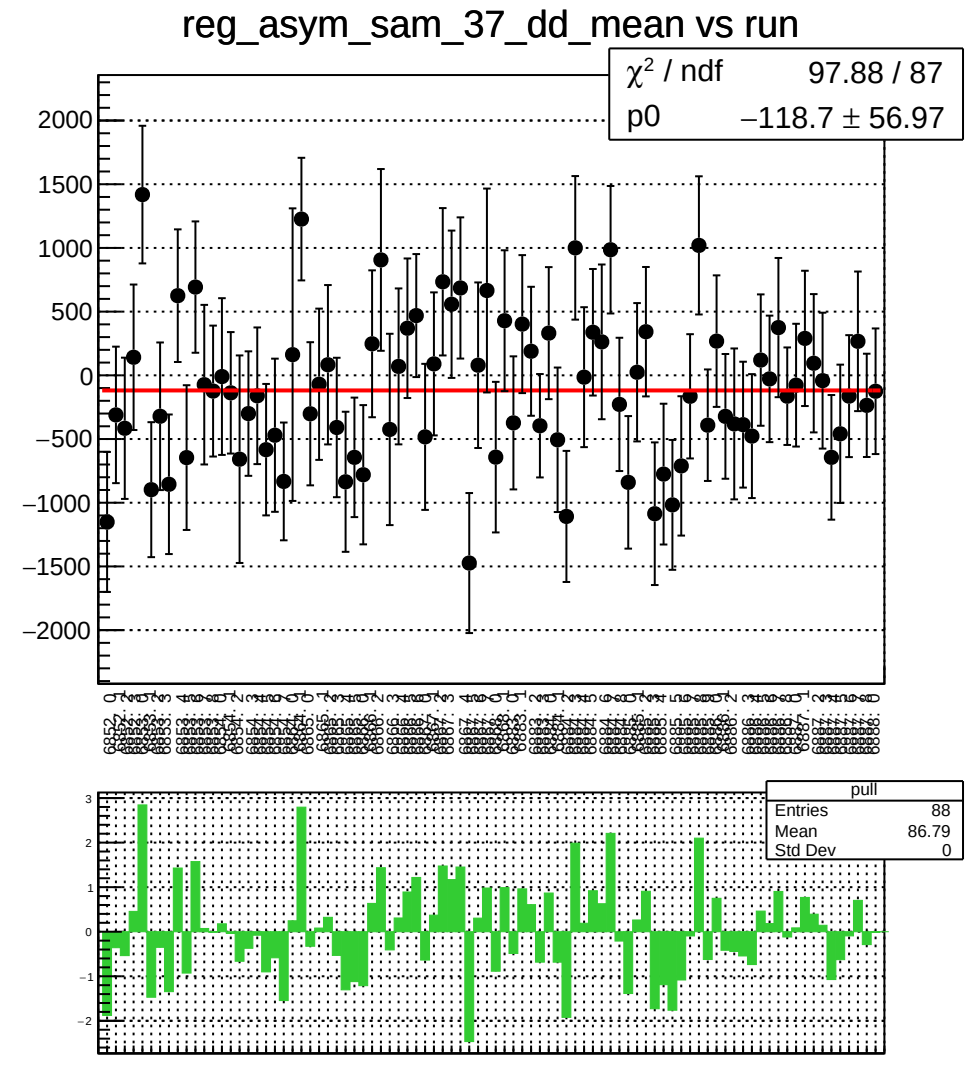

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.21 / 87
p0 −0.08084 ± 0.09221
pull
Entries 88
Mean −9.293
Std Dev 33.53
pull1D
Entries 88
Mean 0.01357
Std Dev 1.024

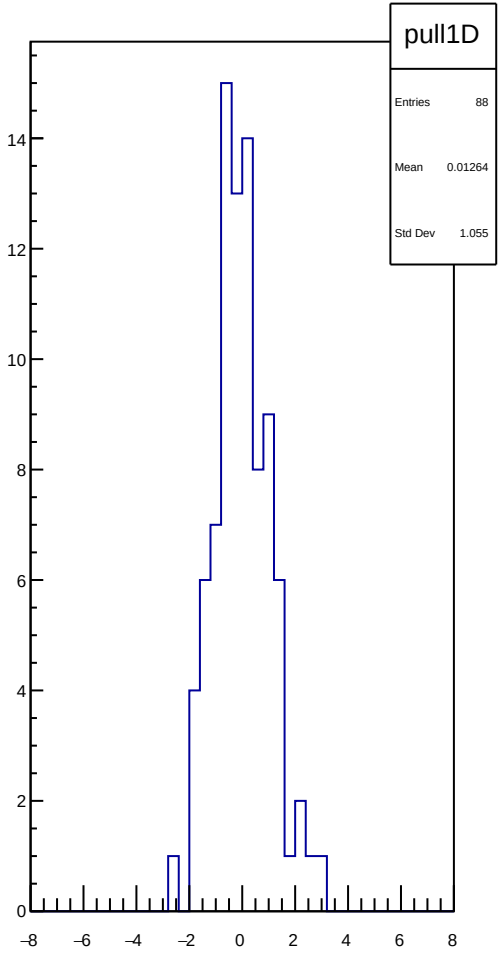

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.108e+04 / 87
p0 84.51 ± 0.0652
105
100
95
90
85
80
75

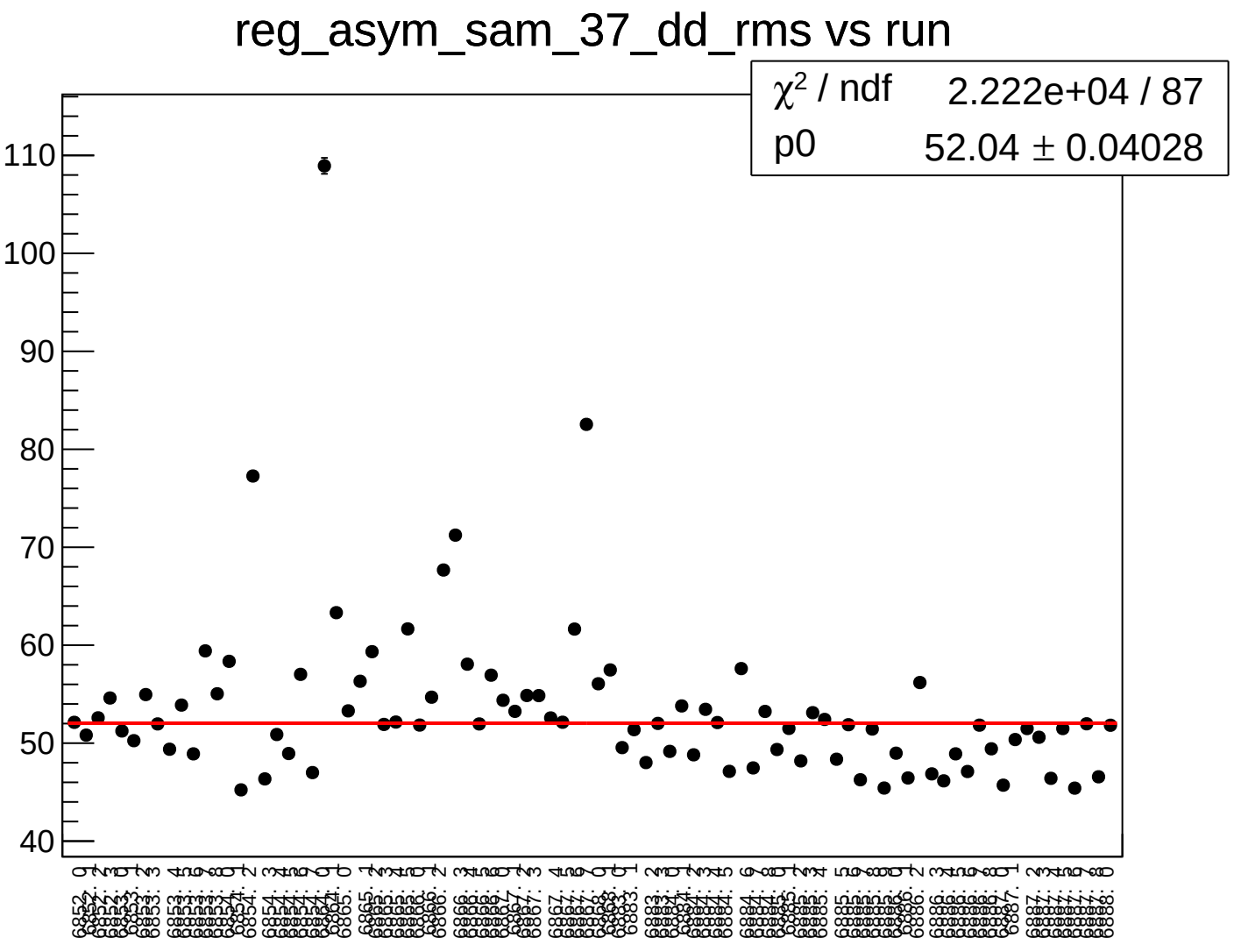

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.52 / 87
p0 9.988e−16 ± 5.809e−14
pull
Entries 88
Mean 25.33
Std Dev 30.8

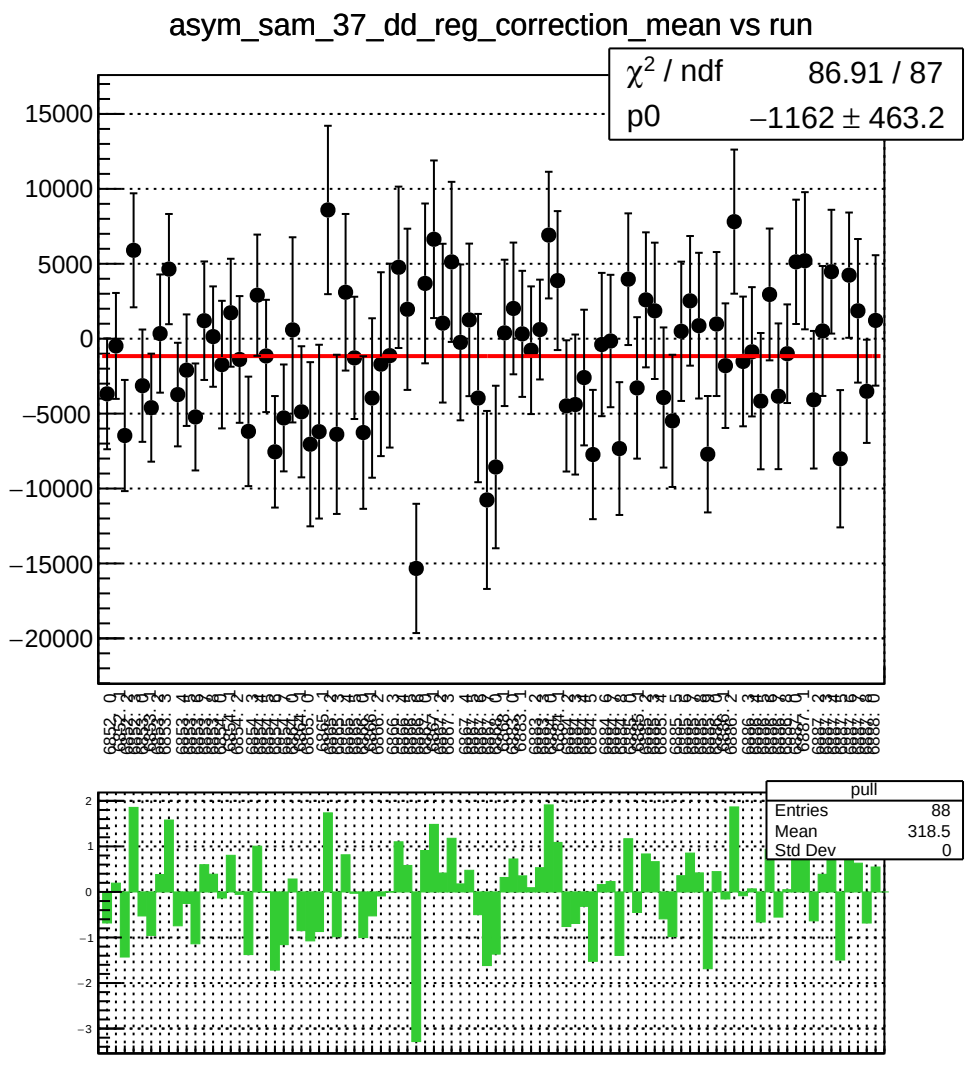

pull1D
Entries 88
Mean 0.04629
Std Dev 0.9374

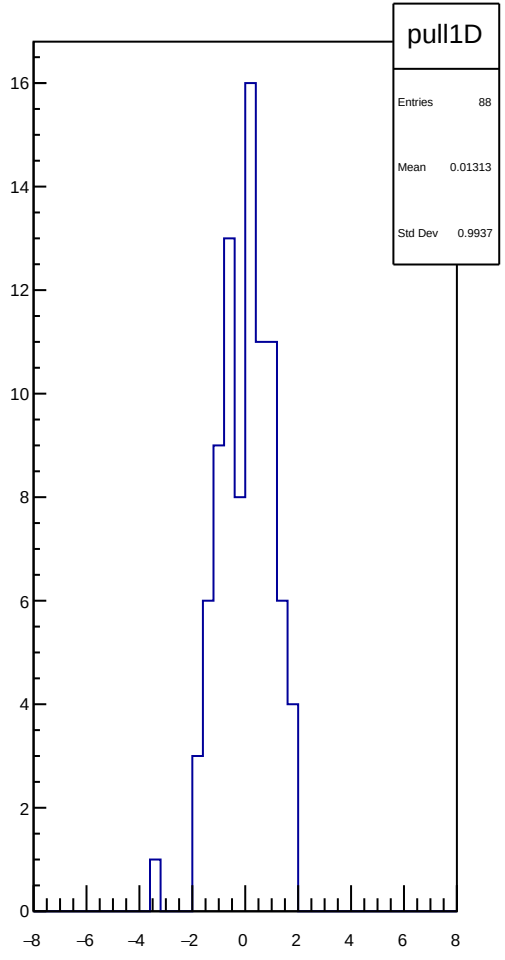

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 3.68e+05 / 87
p0 4.724e−11 ± 4.107e−14

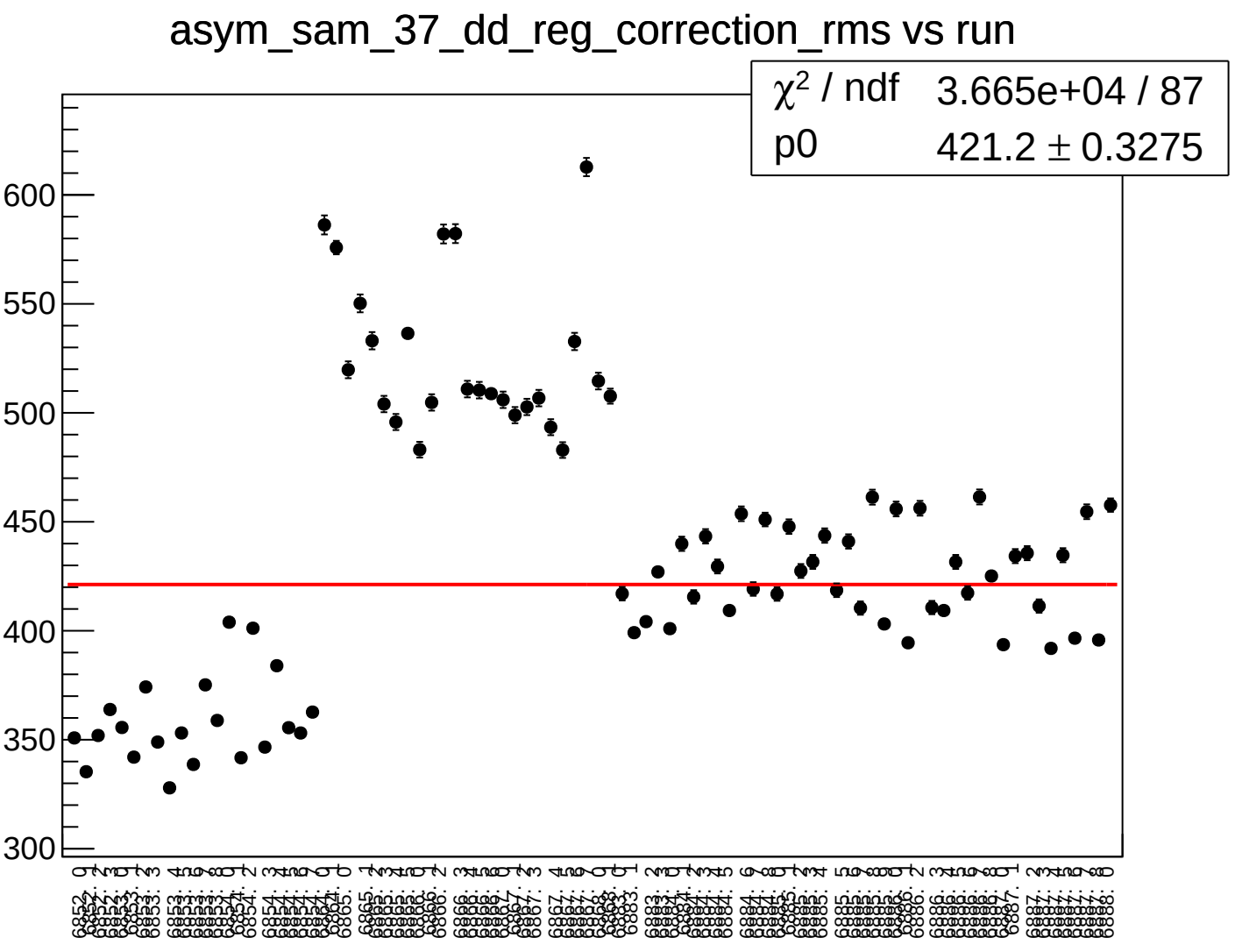

reg_asym_sam_37_dd_mean vs run
χ² / ndf 97.88 / 87
p0 −118.7 ± 56.97
pull
Entries 88
Mean 86.79
Std Dev 0

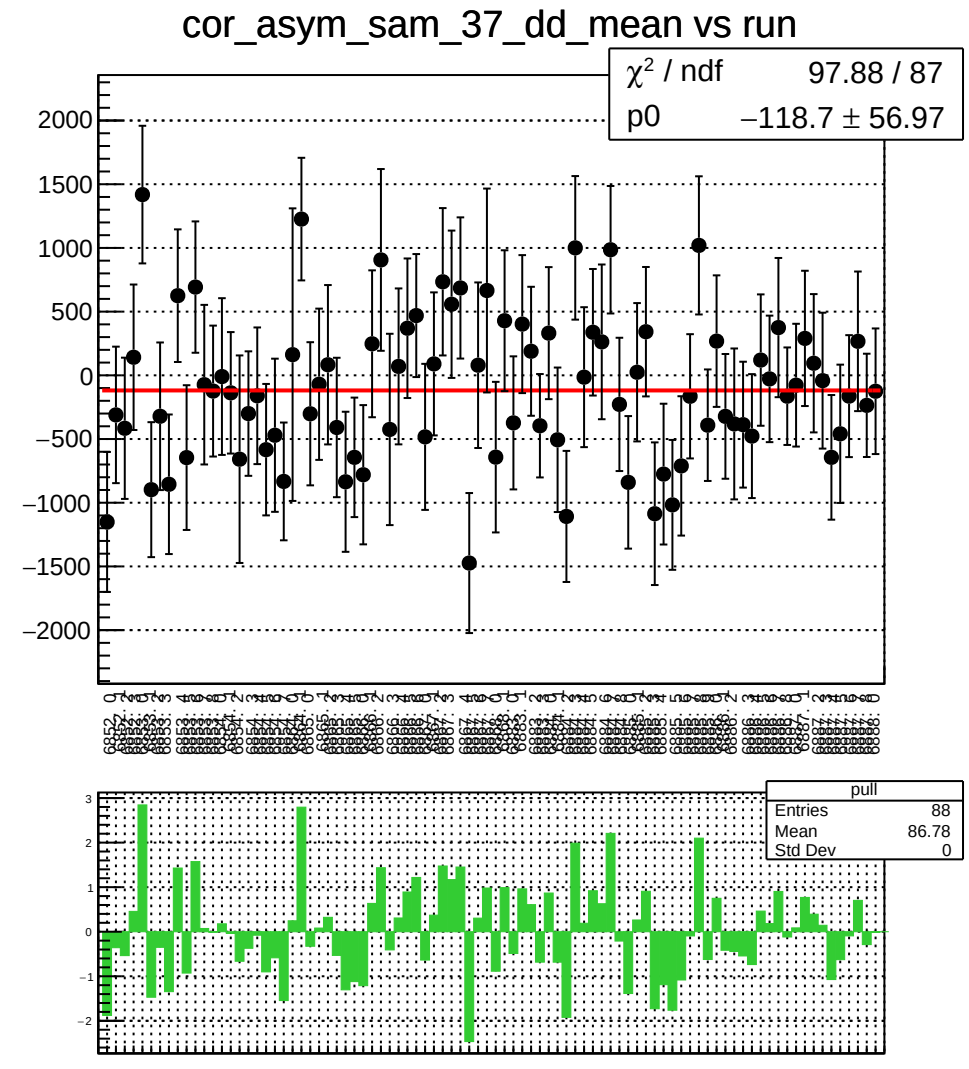

pull1D
Entries 88
Mean 0.01264
Std Dev 1.055

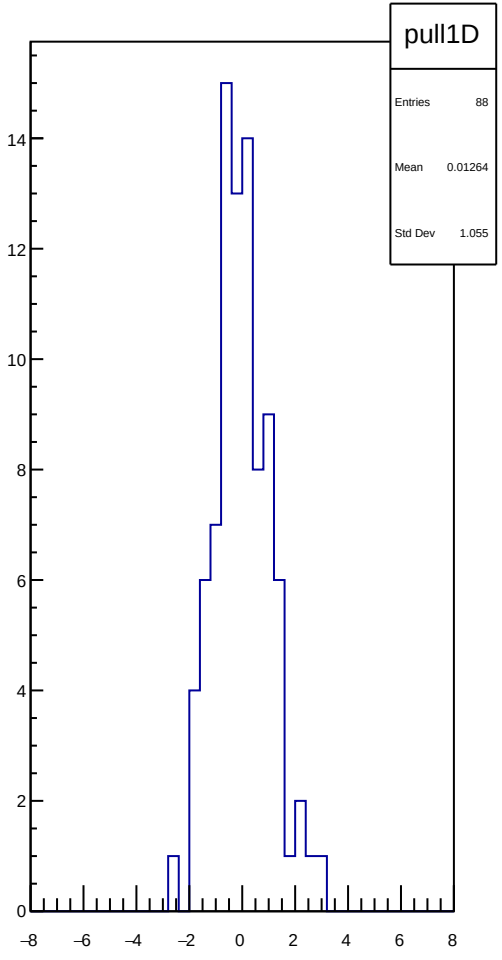

reg_asym_sam_37_dd_rms vs run
χ² / ndf 2.222e+04 / 87
p0 52.04 ± 0.04028
110
100
90
80
70
60
50
40

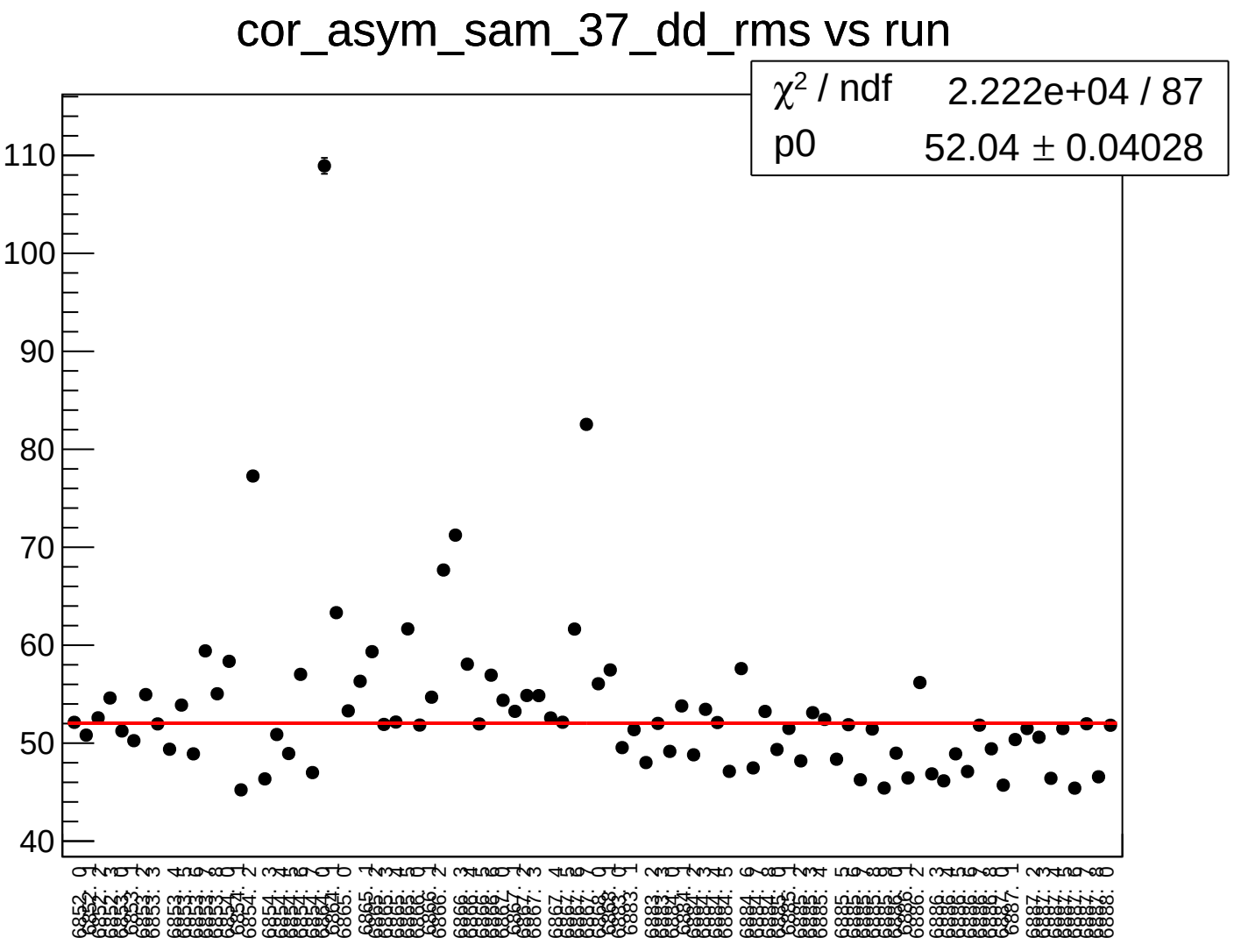

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 86.91 / 87
p0 −1162 ± 463.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 318.5
Std Dev 0
2
1
0
−1
−2
−3

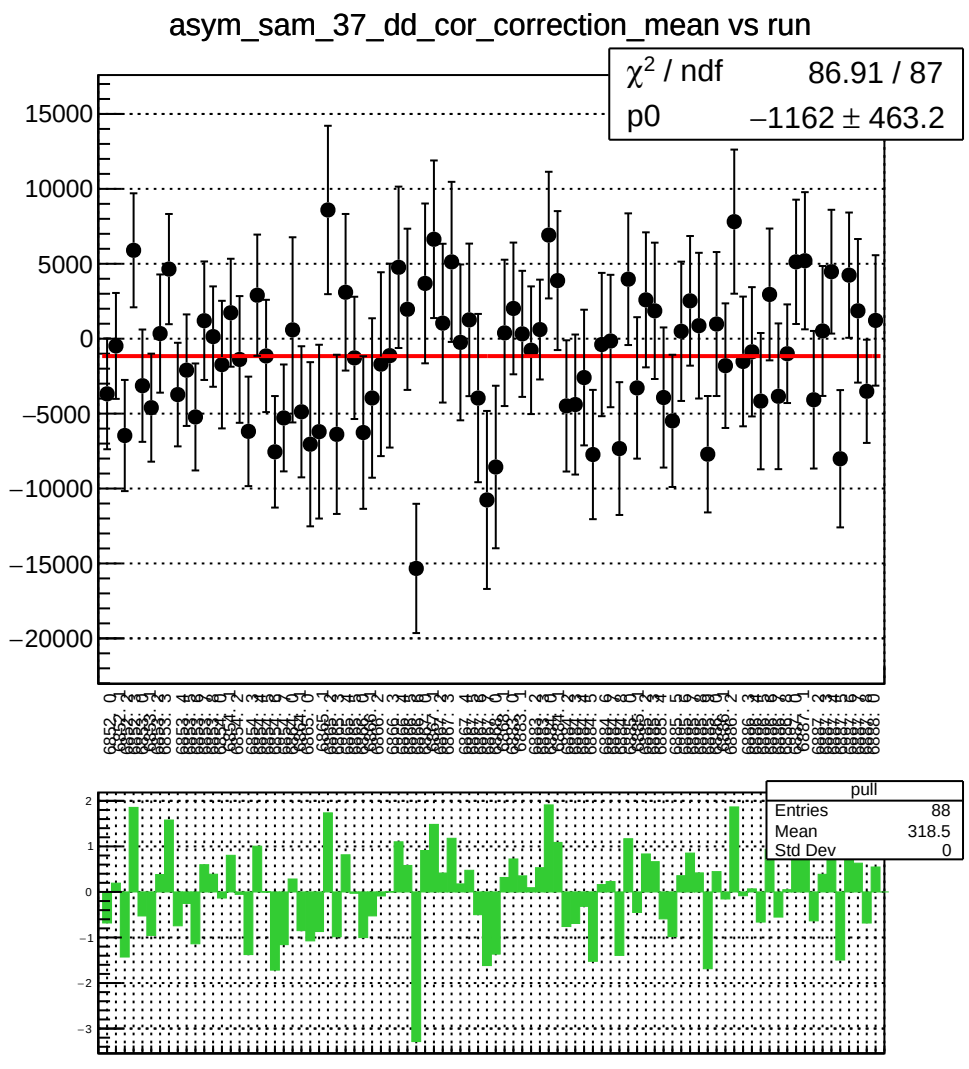

pull1D
Entries 88
Mean 0.01313
Std Dev 0.9937
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

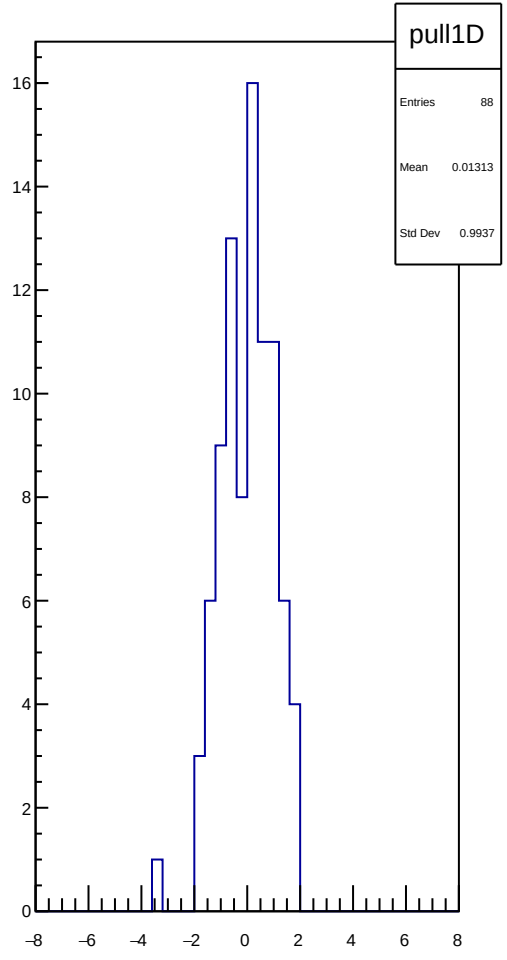

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 3.665e+04 / 87
p0 421.2 ± 0.3275
600
550
500
450
400
350
300

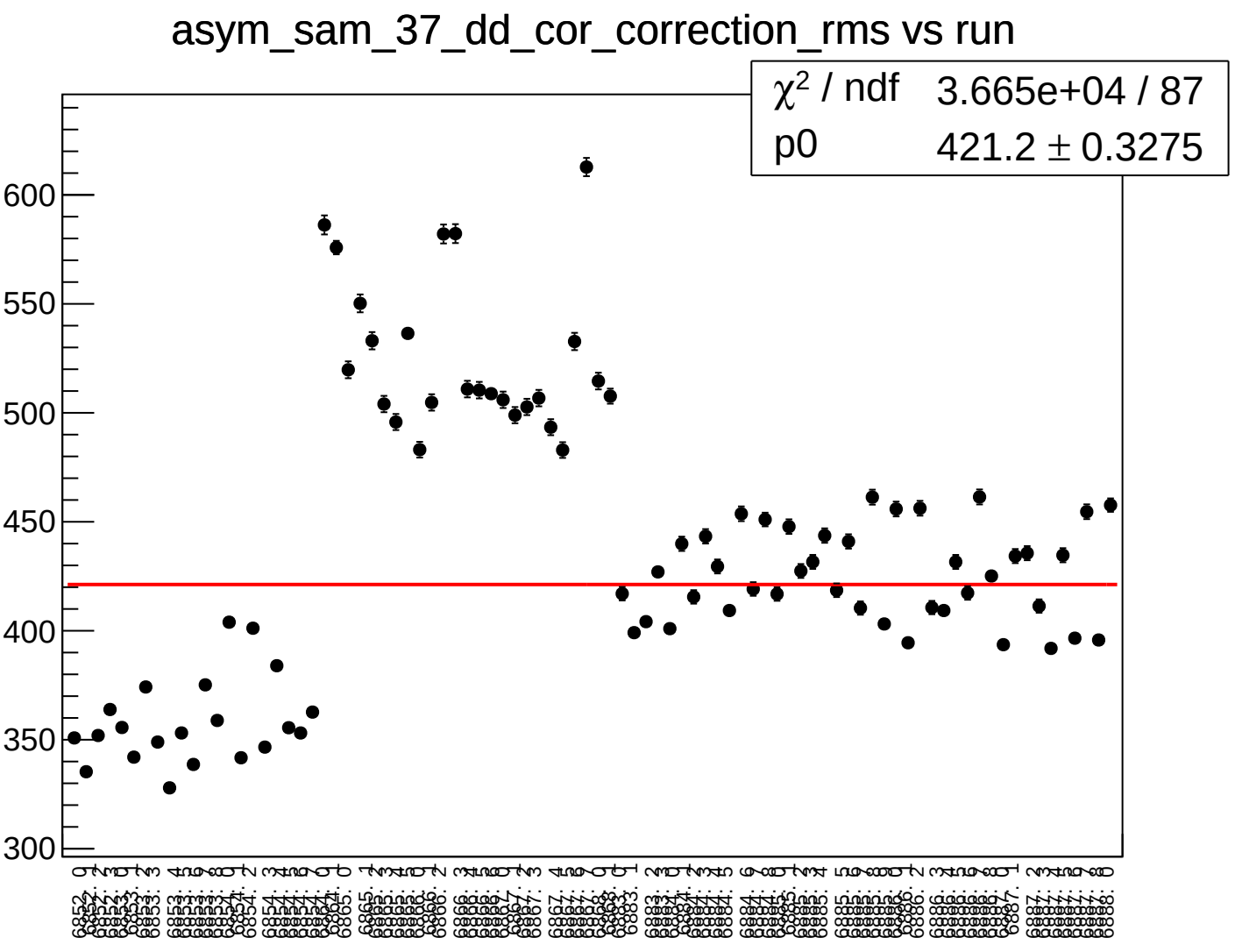

cor_asym_sam_37_dd_mean vs run
χ² / ndf 97.88 / 87
p0 −118.7 ± 56.97
pull
Entries 88
Mean 86.78
Std Dev 0

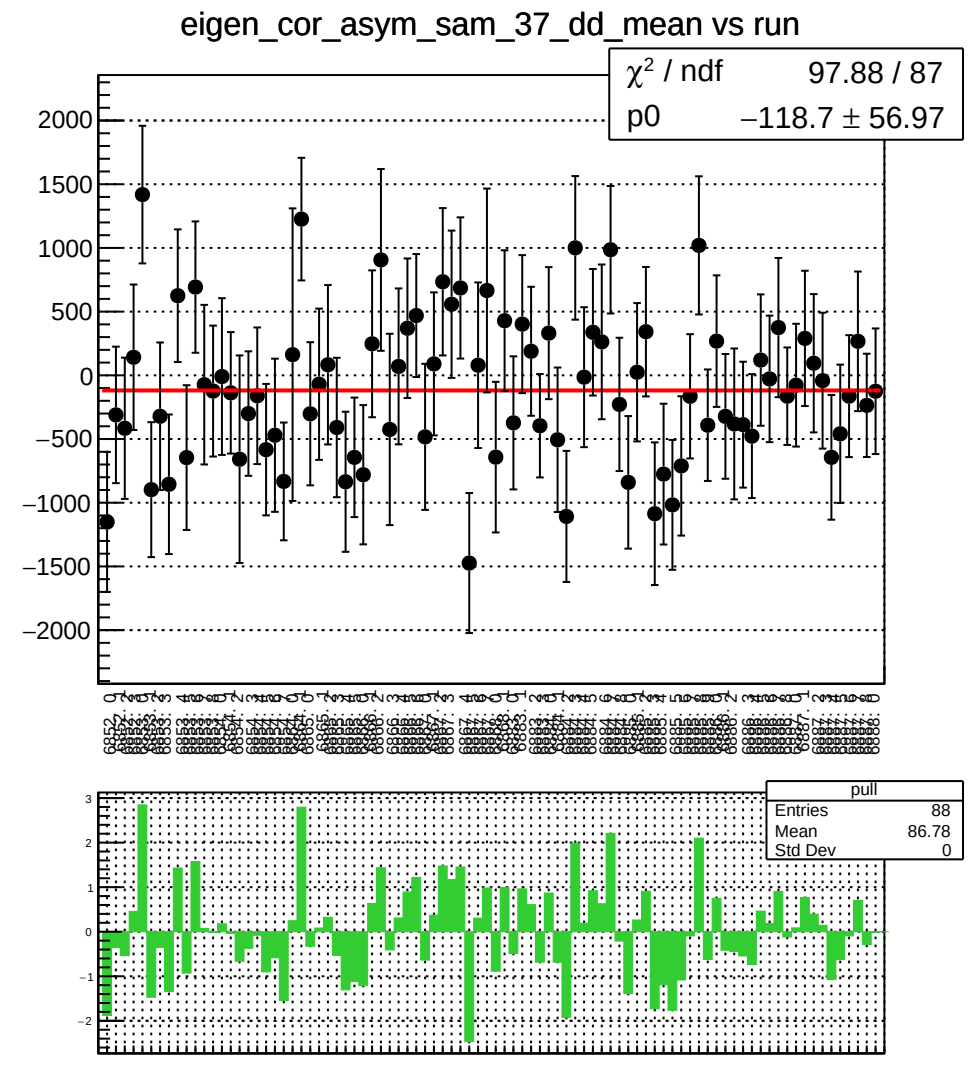

pull1D
Entries 88
Mean 0.01264
Std Dev 1.055

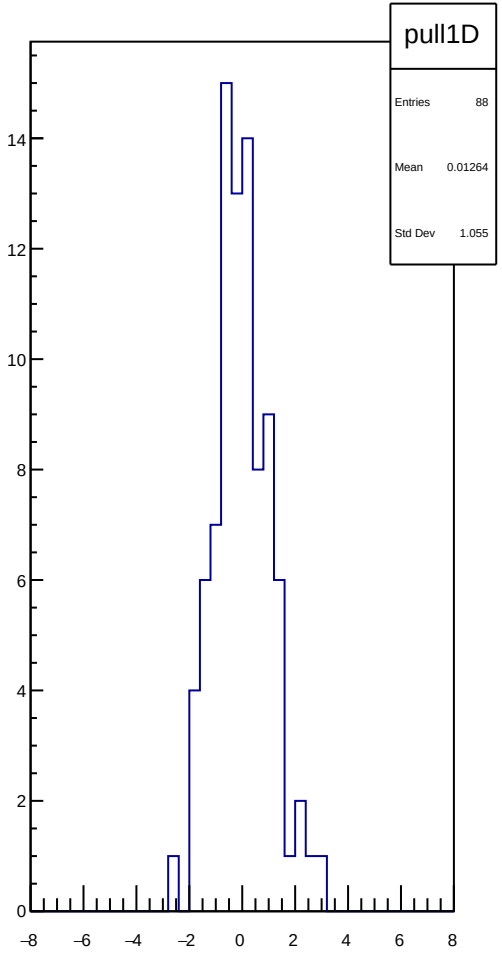

cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.222e+04 / 87
p0 52.04 ± 0.04028
110
100
90
80
70
60
50
40

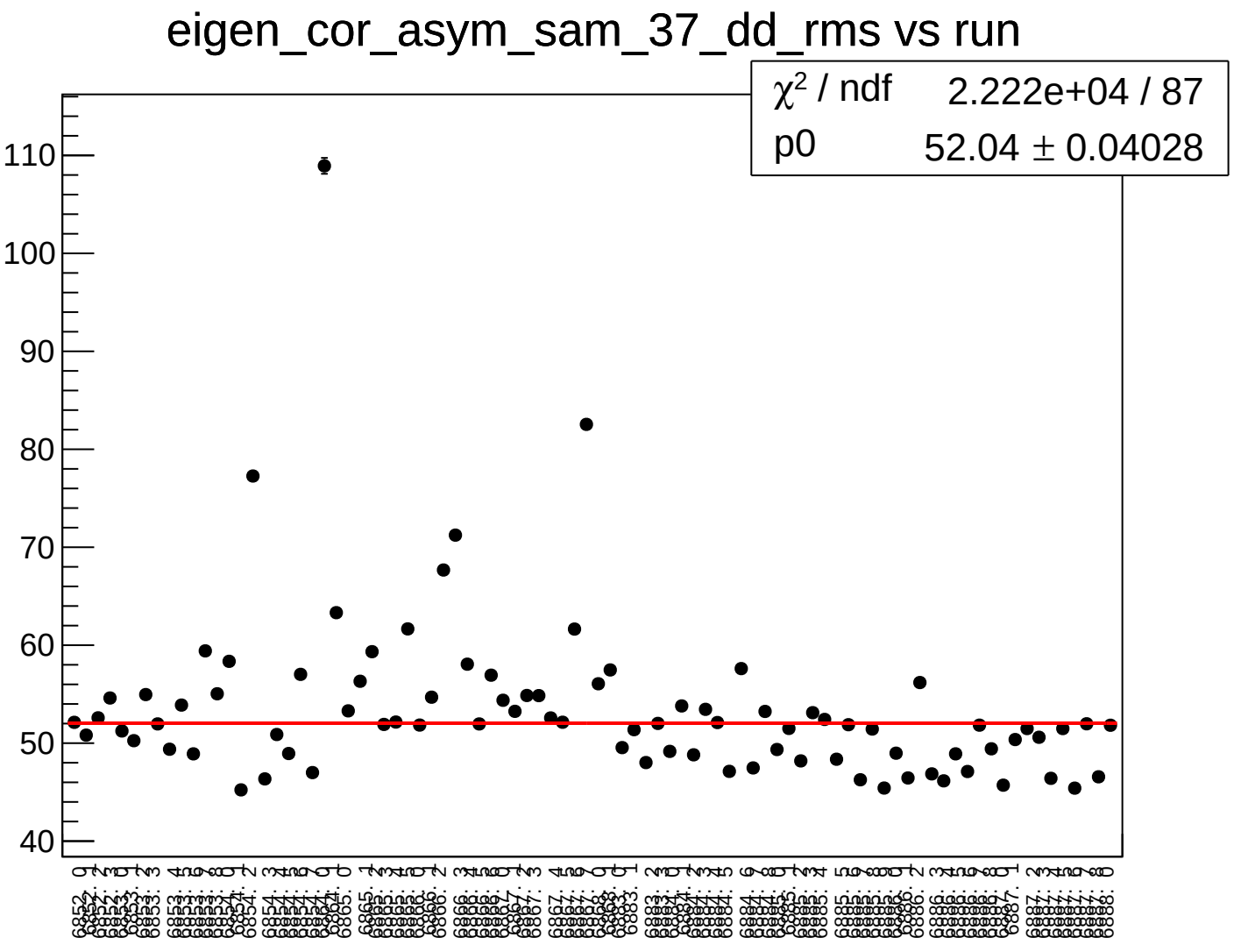

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 86.91 / 87
p0 −1162 ± 463.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 318.5
Std Dev 0
2
1
0
−1
−2
−3

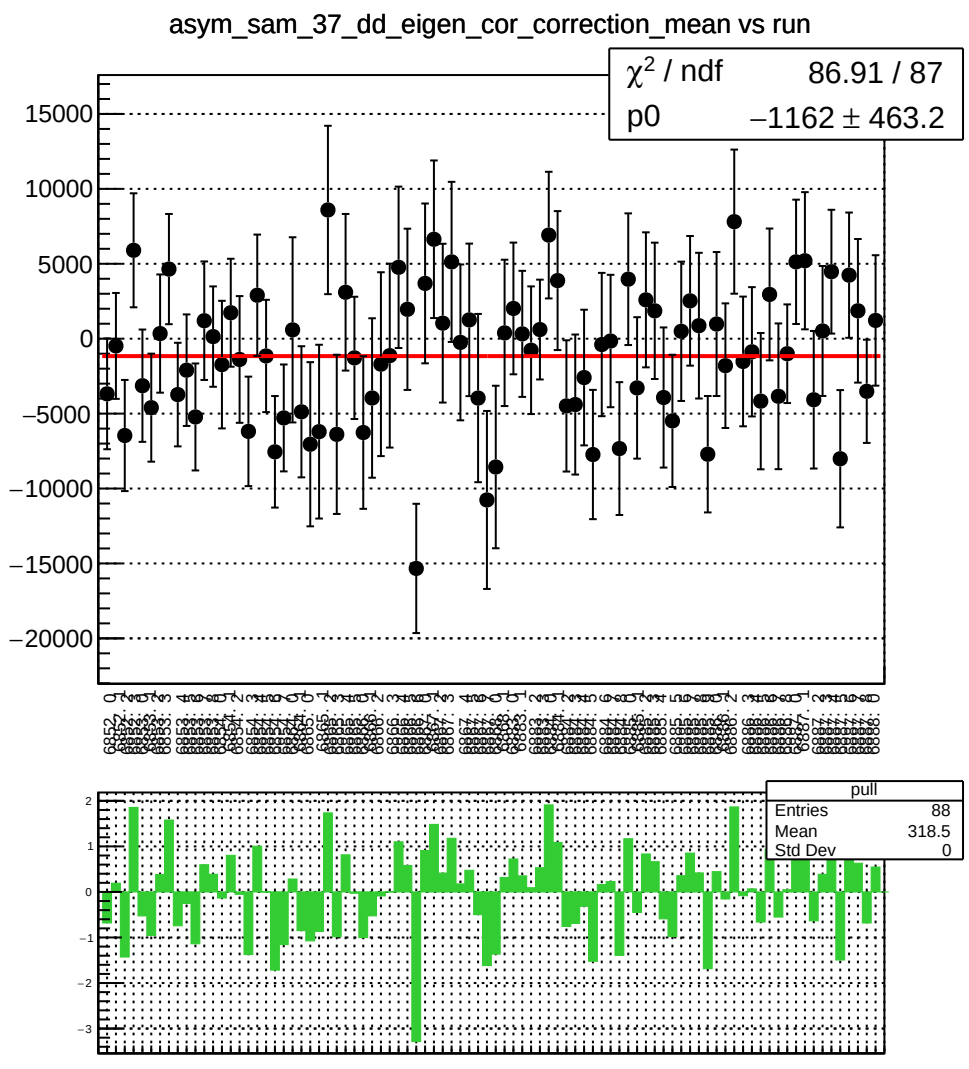

pull1D
Entries 88
Mean 0.01313
Std Dev 0.9937
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

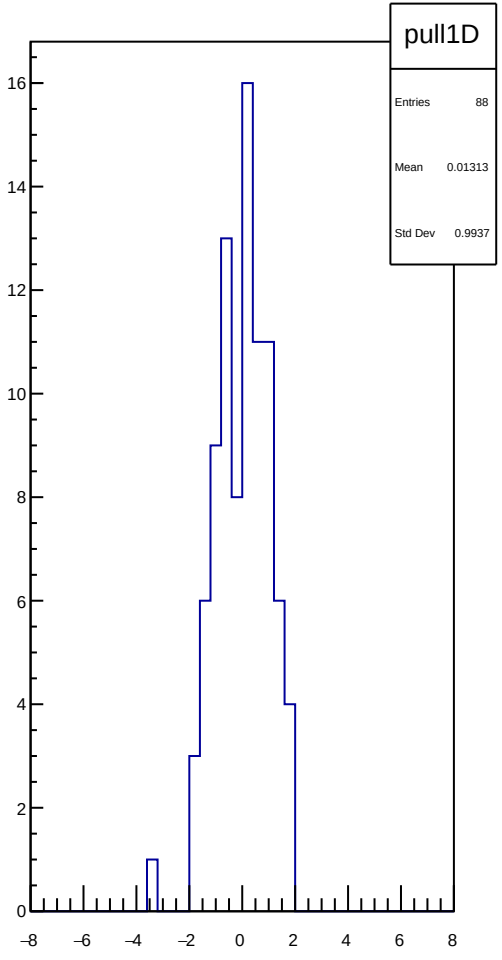

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 3.665e+04 / 87
p0 421.2 ± 0.3275
600
550
500
450
400
350
300

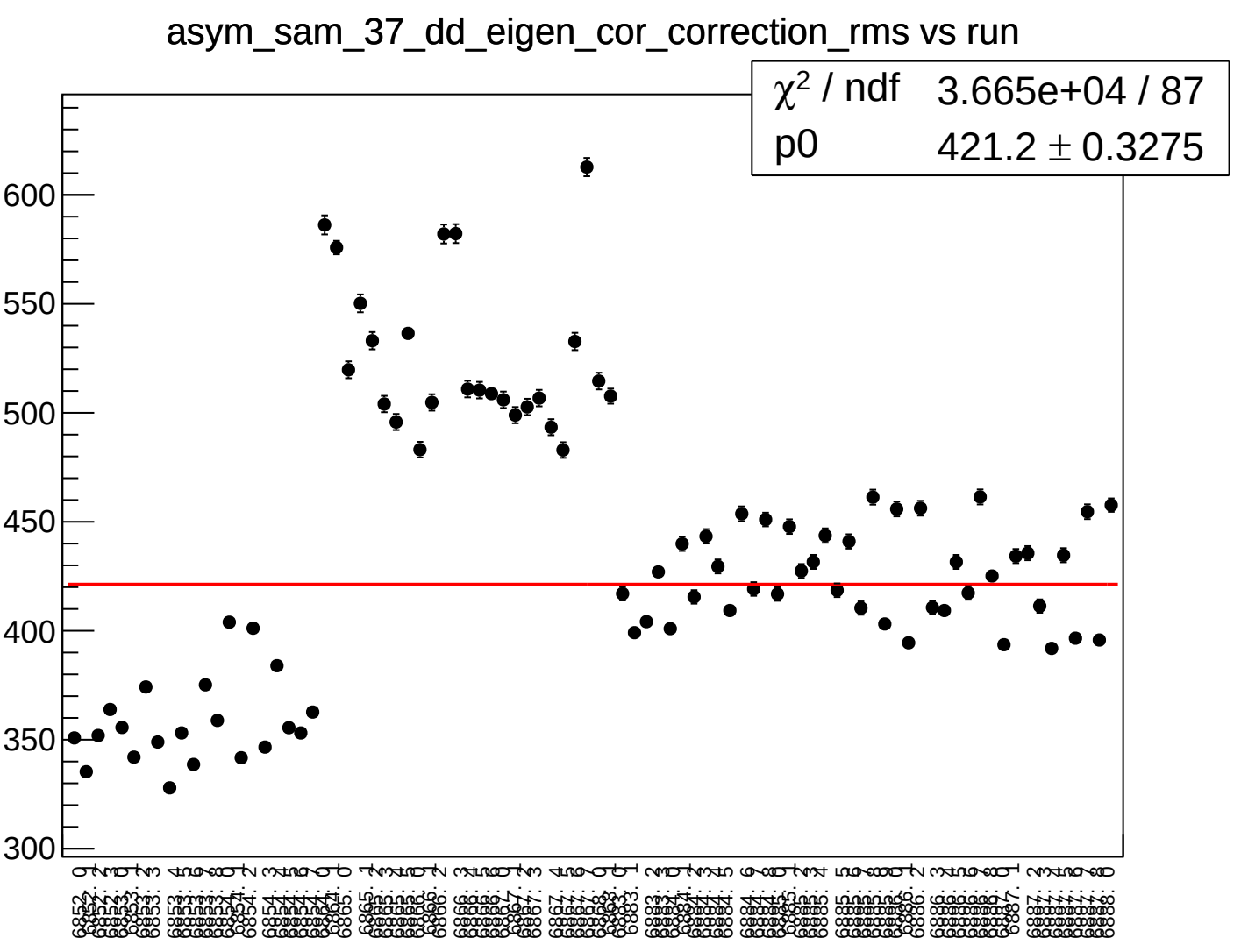

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 97.88 / 87
p0 −118.7 ± 56.97
pull
Entries 88
Mean 86.78
Std Dev 0

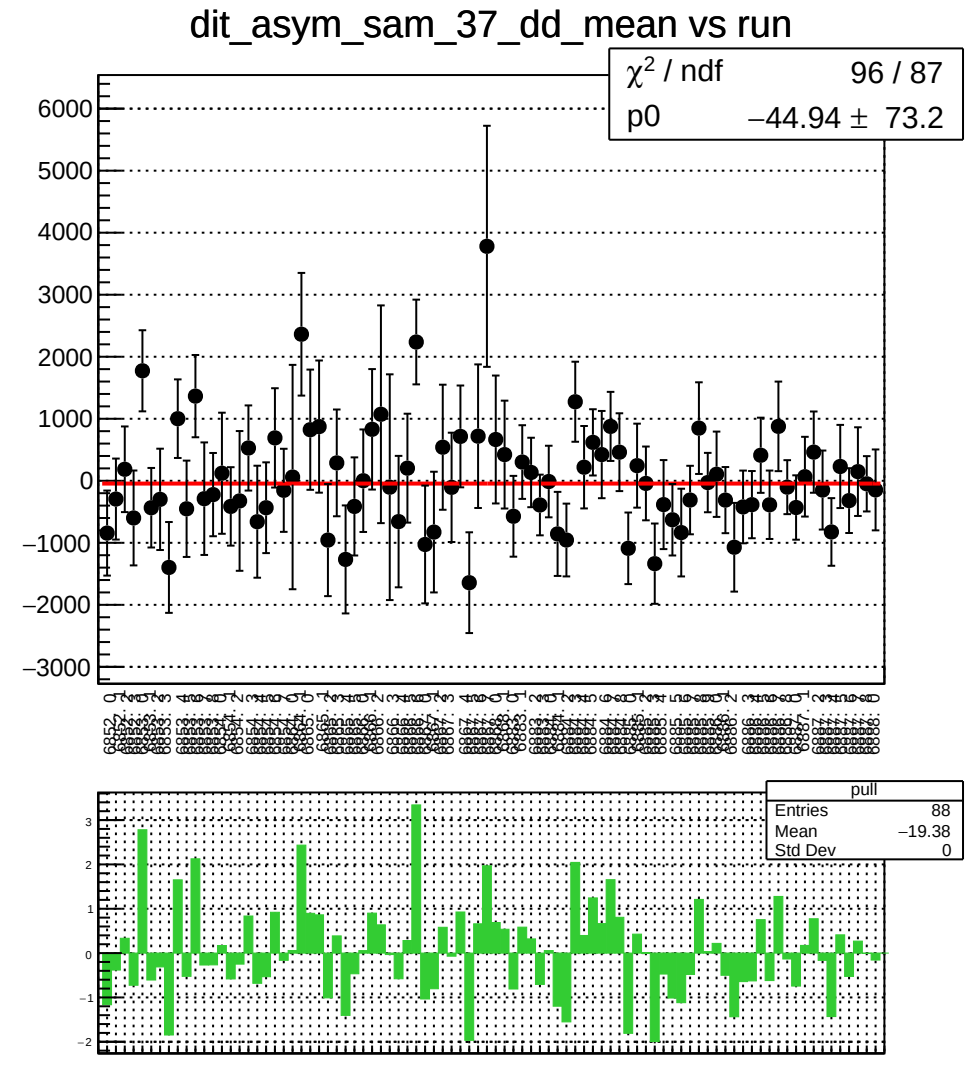

pull1D
Entries 88
Mean 0.01264
Std Dev 1.055

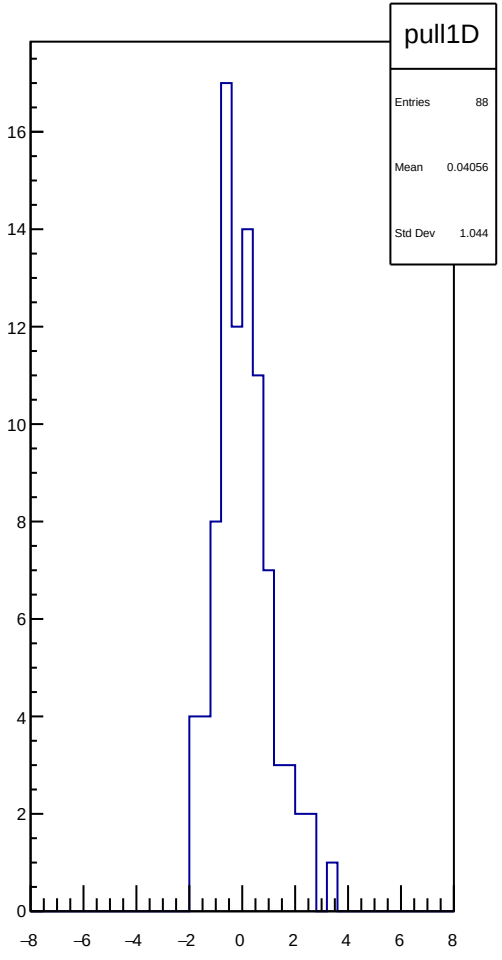

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.222e+04 / 87
p0 52.04 ± 0.04028
110
100
90
80
70
60
50
40

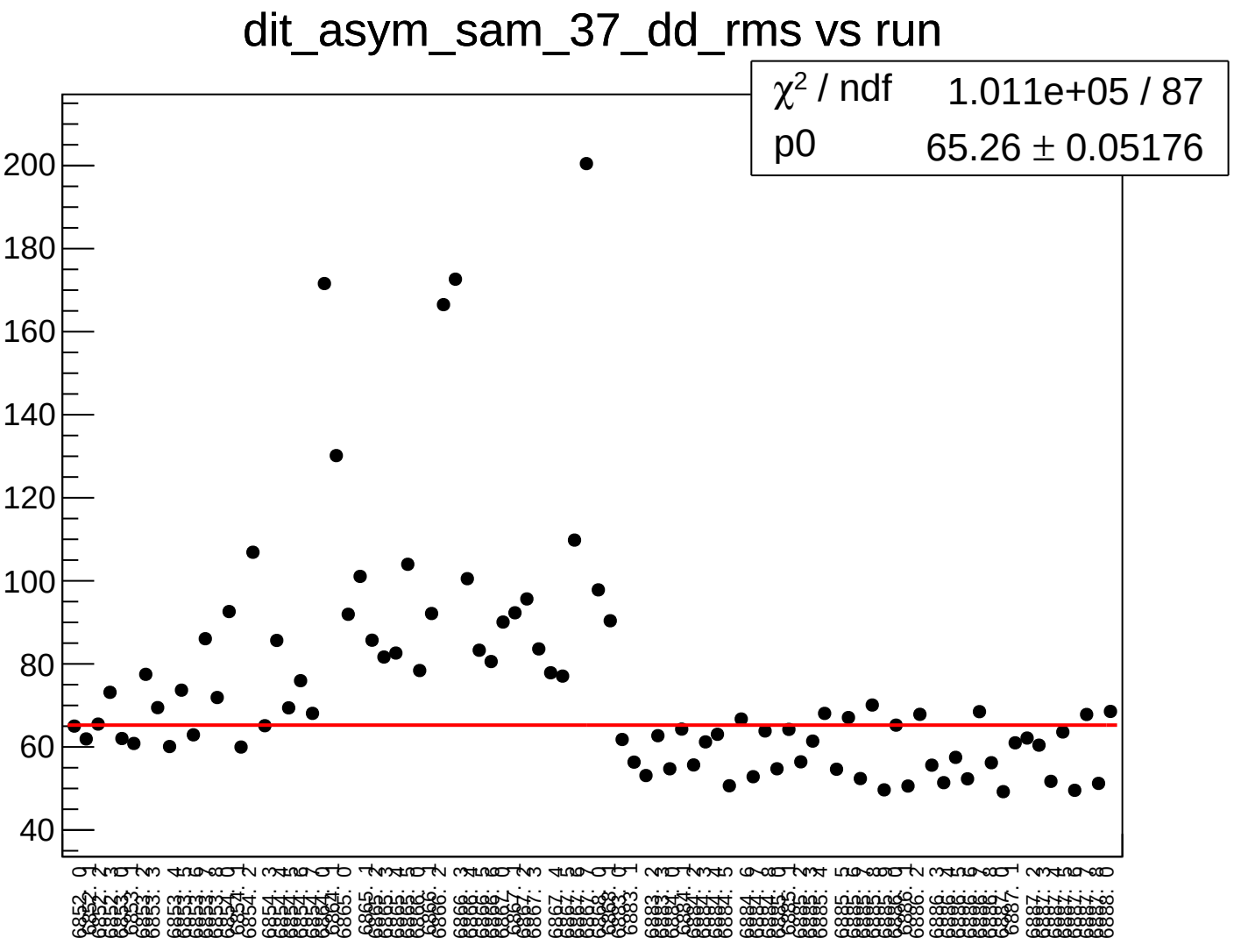

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.91 / 87
p0 −1162 ± 463.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 318.5
Std Dev 0

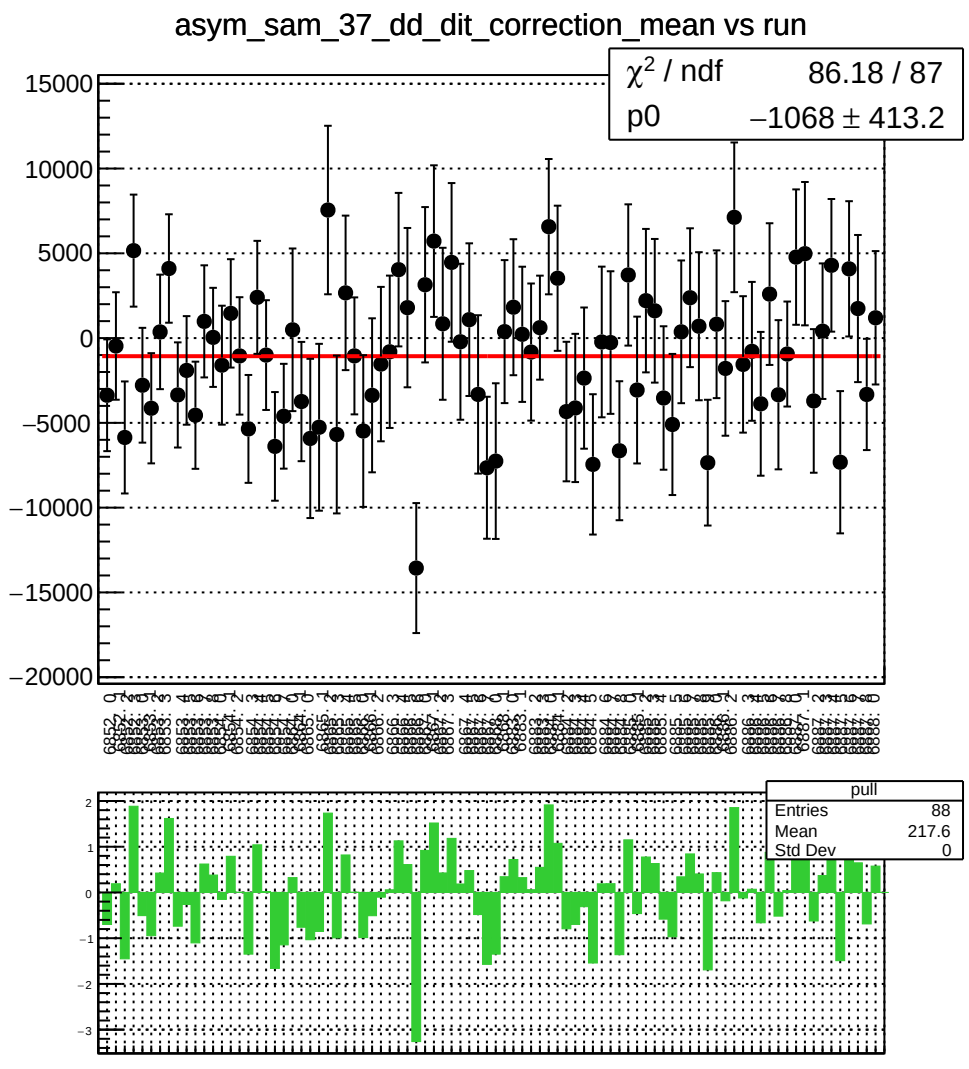

pull1D
Entries 88
Mean 0.01313
Std Dev 0.9937
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

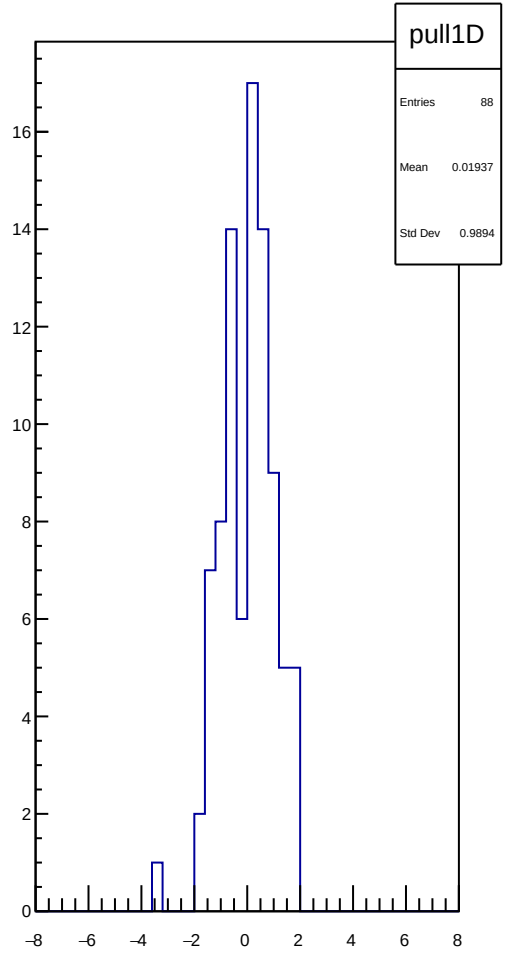

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.665e+04 / 87
p0 421.2 ± 0.3275
600
550
500
450
400
350
300

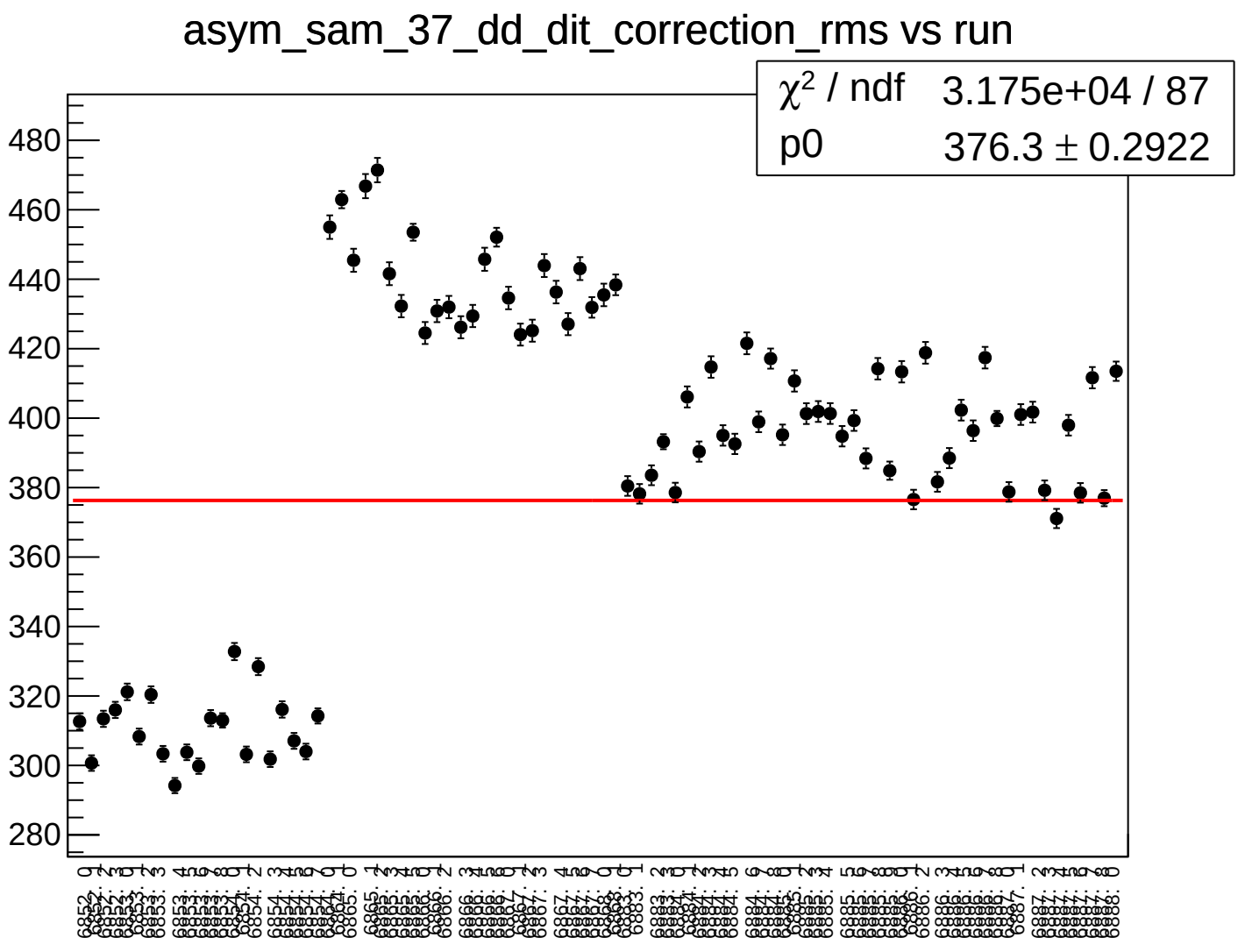

dit_asym_sam_37_dd_mean vs run
χ² / ndf 96 / 87
p0 −44.94 ± 73.2
pull
Entries 88
Mean −19.38
Std Dev 0

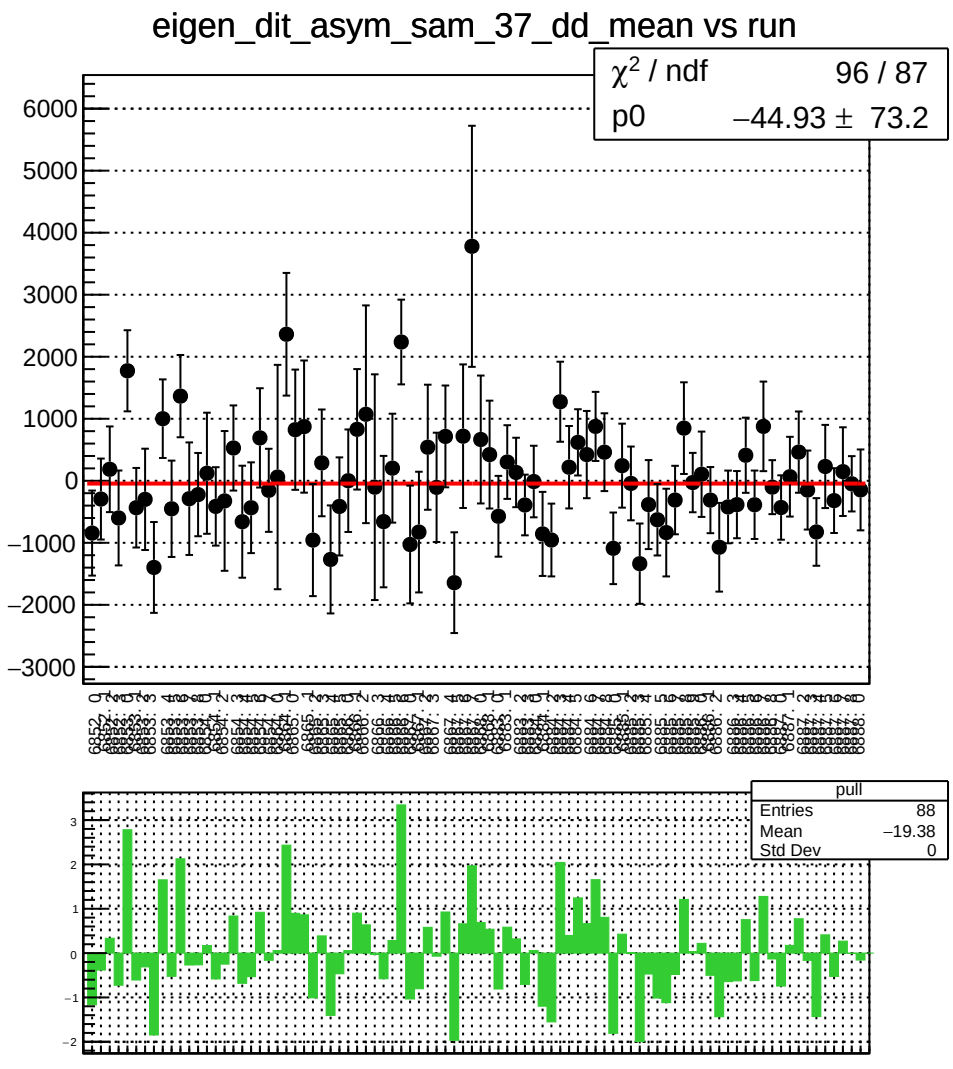

pull1D
Entries 88
Mean 0.04056
Std Dev 1.044

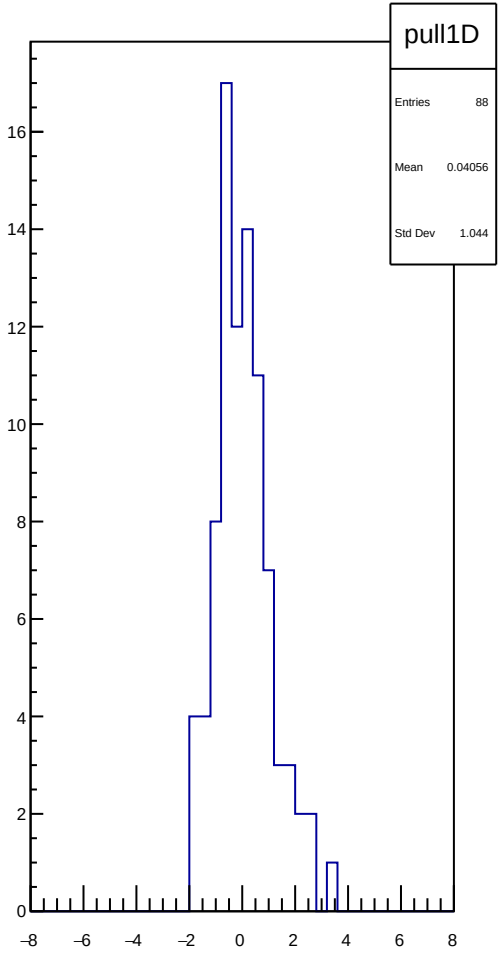

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.011e+05 / 87
p0 65.26 ± 0.05176
200
180
160
140
120
100
80
60
40

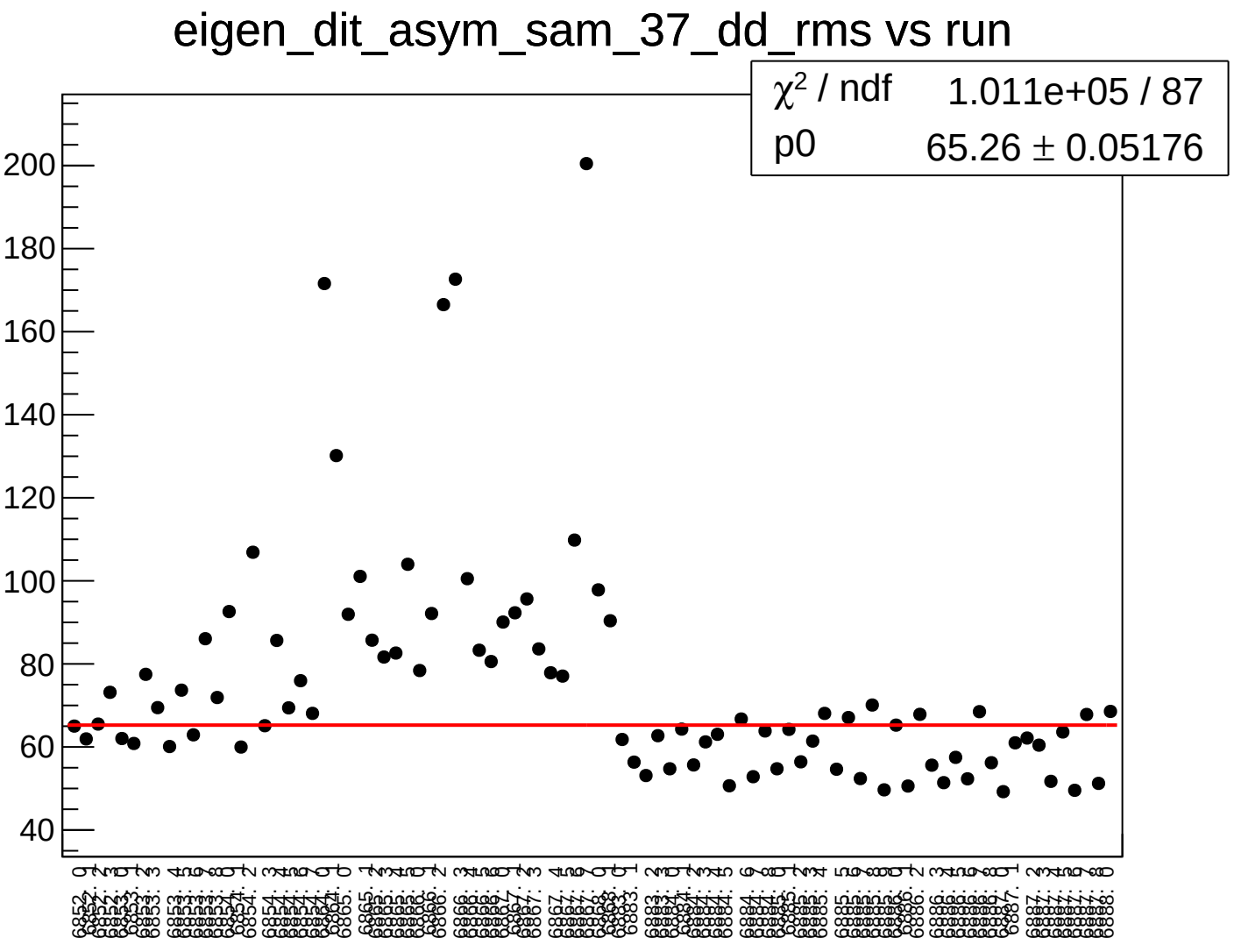

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 86.18 / 87
p0 −1068 ± 413.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 217.6
Std Dev 0
2
1
0
−1
−2
−3

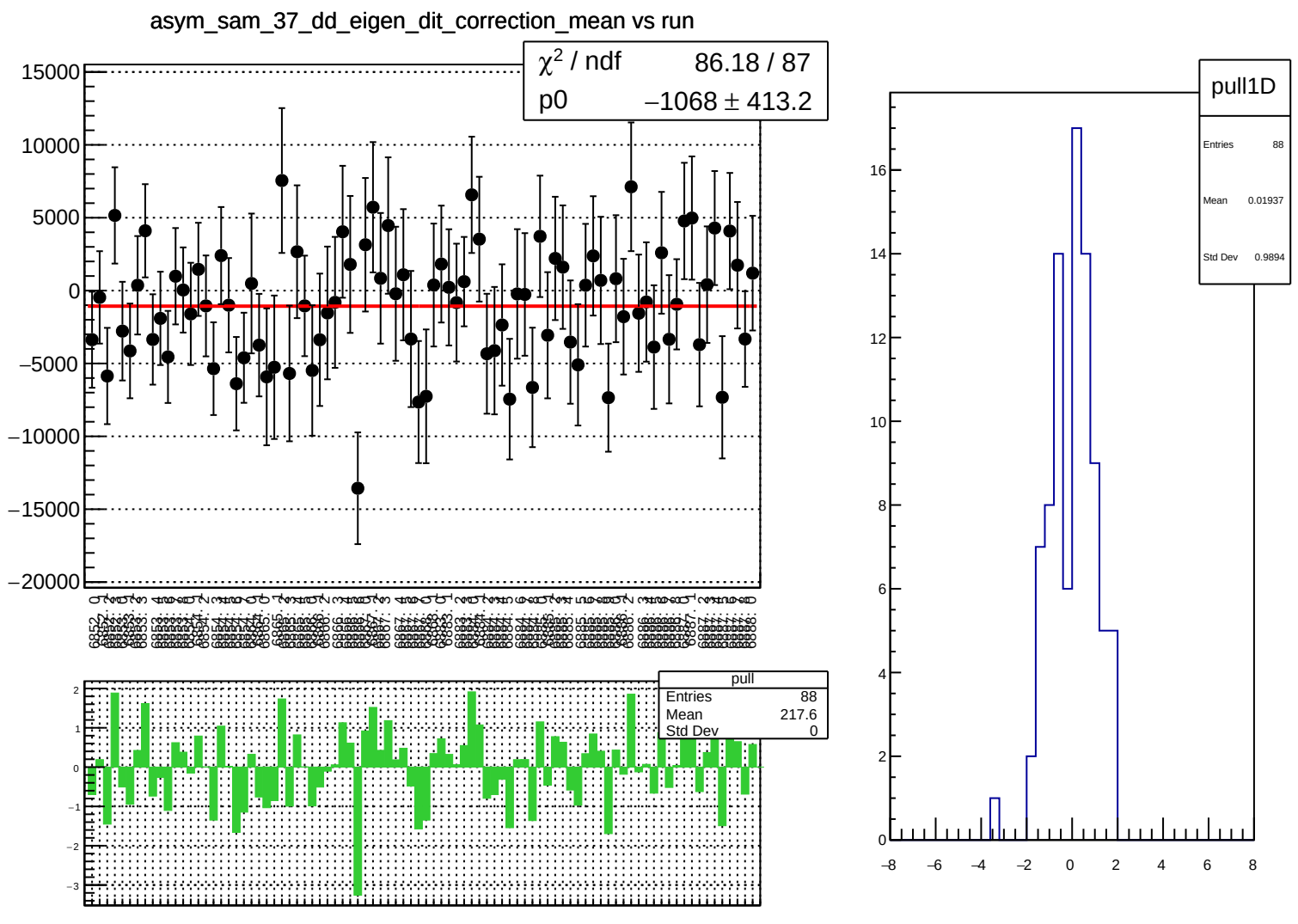

pull1D
Entries 88
Mean 0.01937
Std Dev 0.9894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

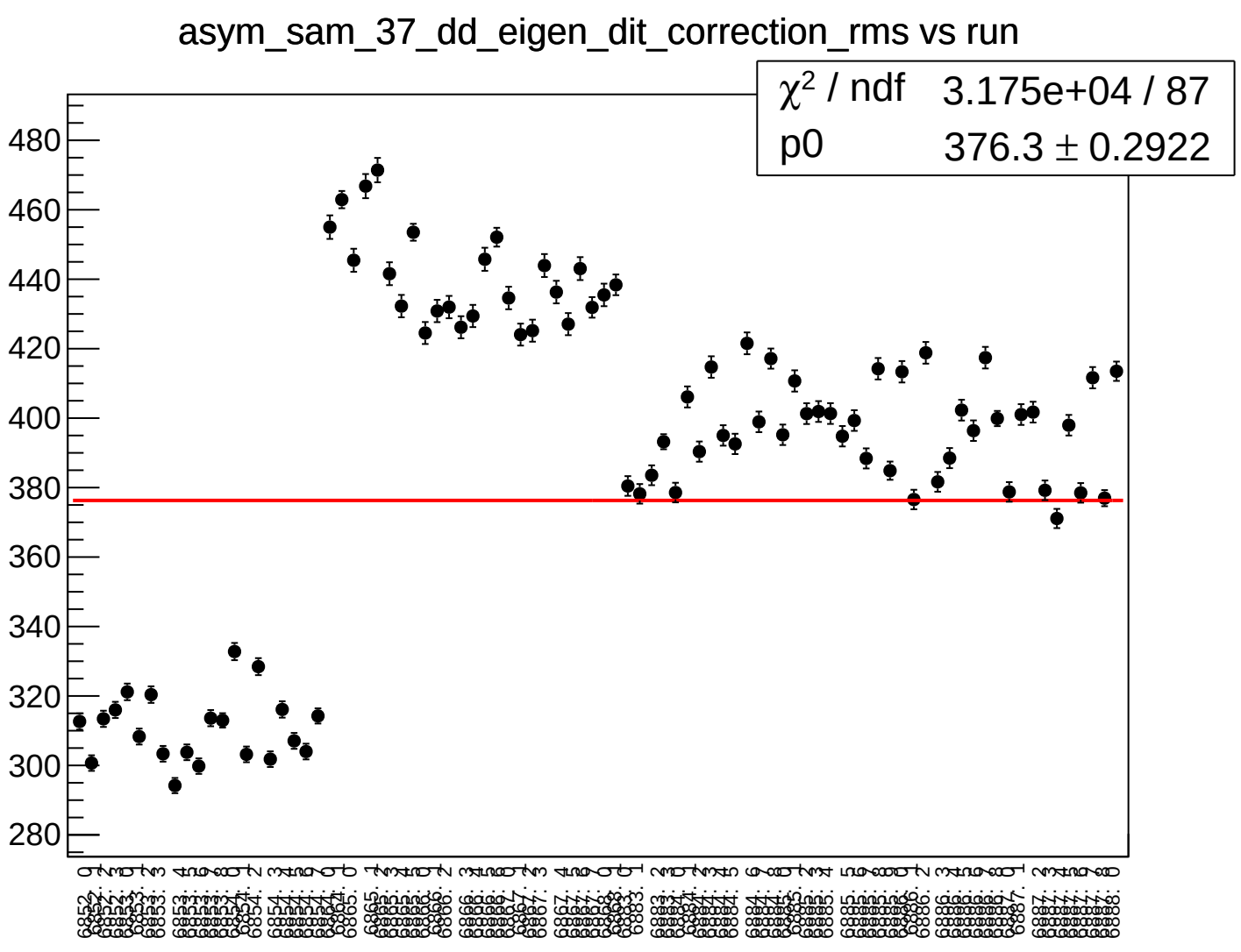

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 3.175e+04 / 87
p0 376.3 ± 0.2922
480
460
440
420
400
380
360
340
320
300
280

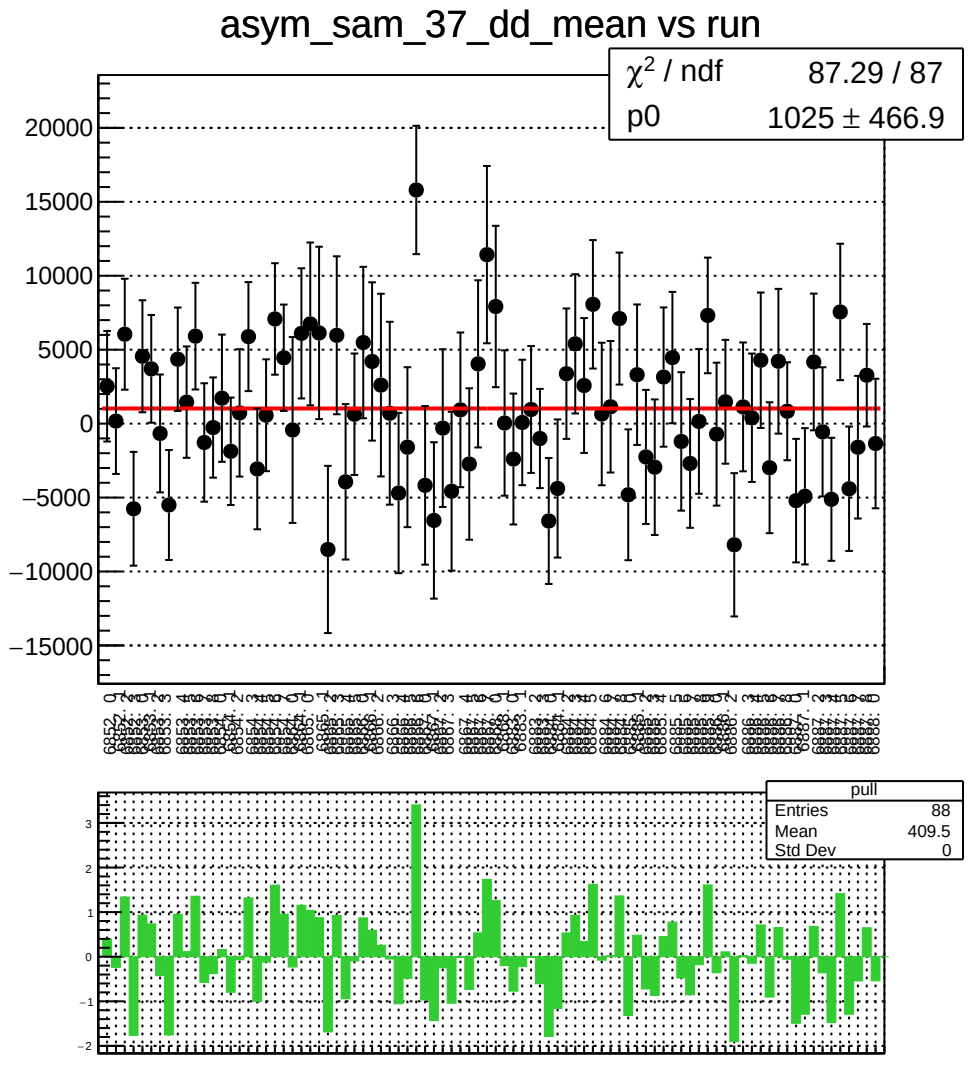

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 96 / 87
p0 −44.93 ± 73.2
pull
Entries 88
Mean −19.38
Std Dev 0

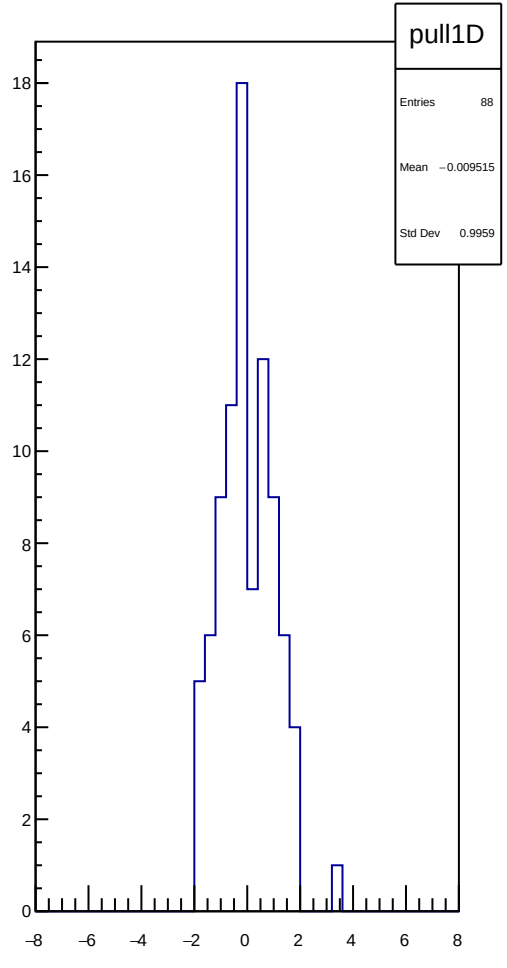

pull1D
Entries 88
Mean 0.04056
Std Dev 1.044

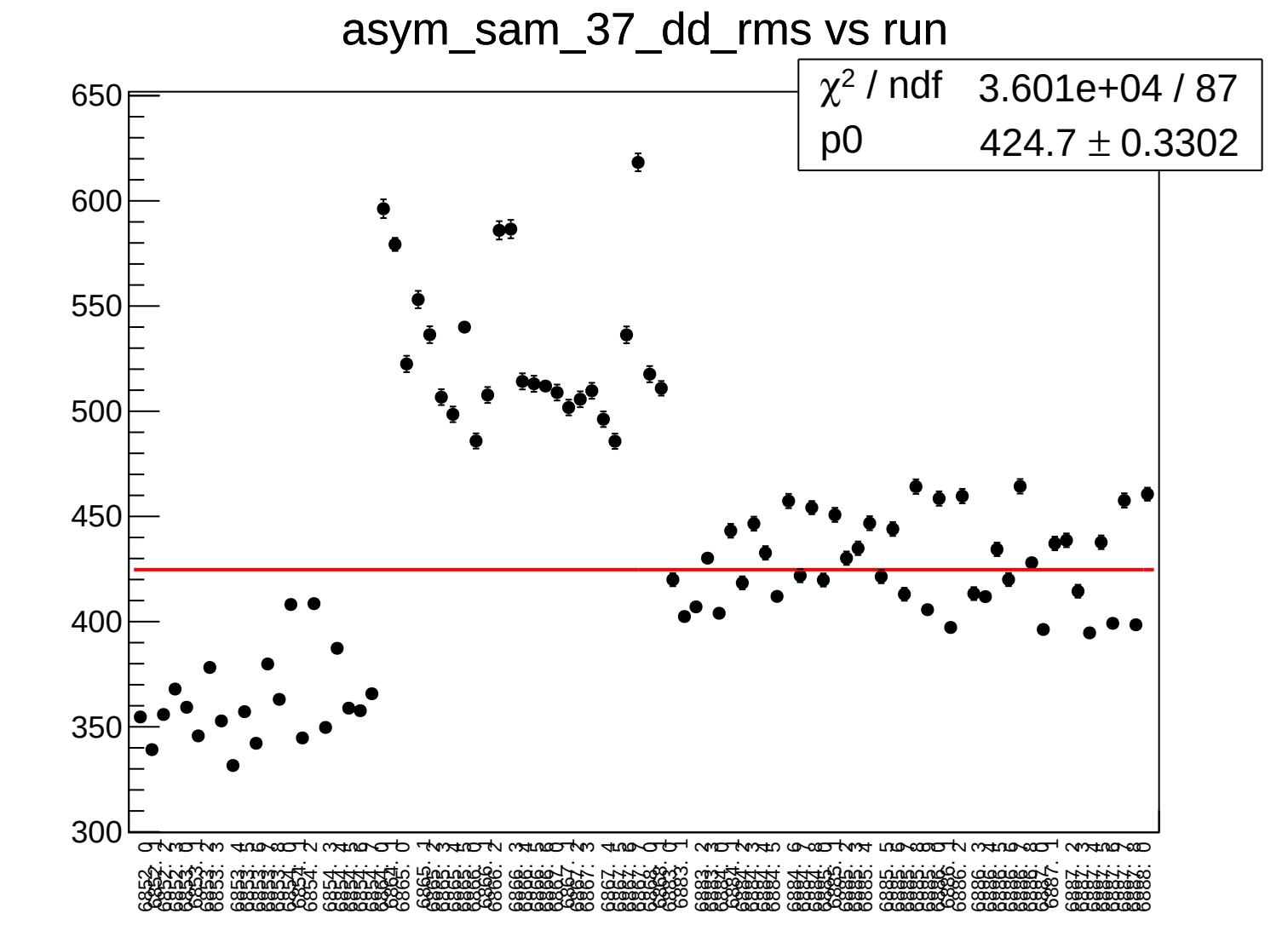

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.011e+05 / 87
p0 65.26 ± 0.05176
200
180
160
140
120
100
80
60
40

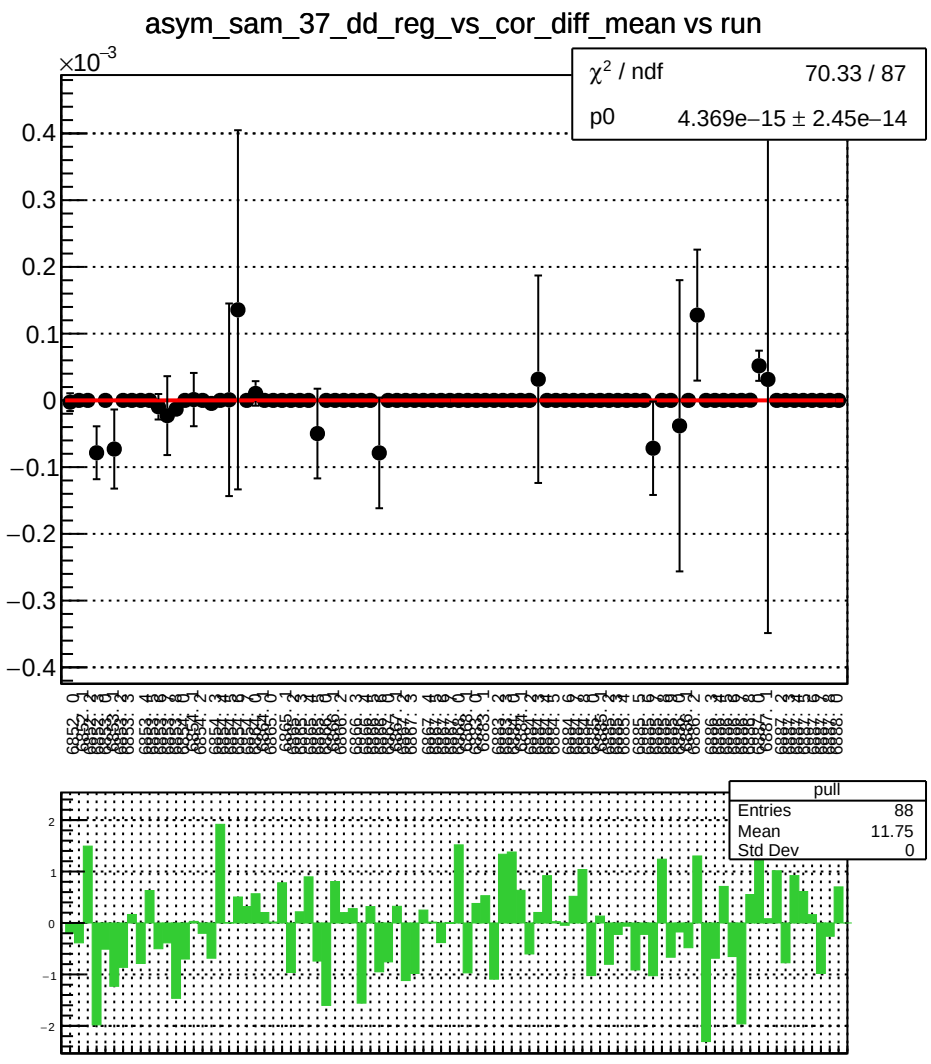

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.18 / 87
p0 −1068 ± 413.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 217.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01937
Std Dev 0.9894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

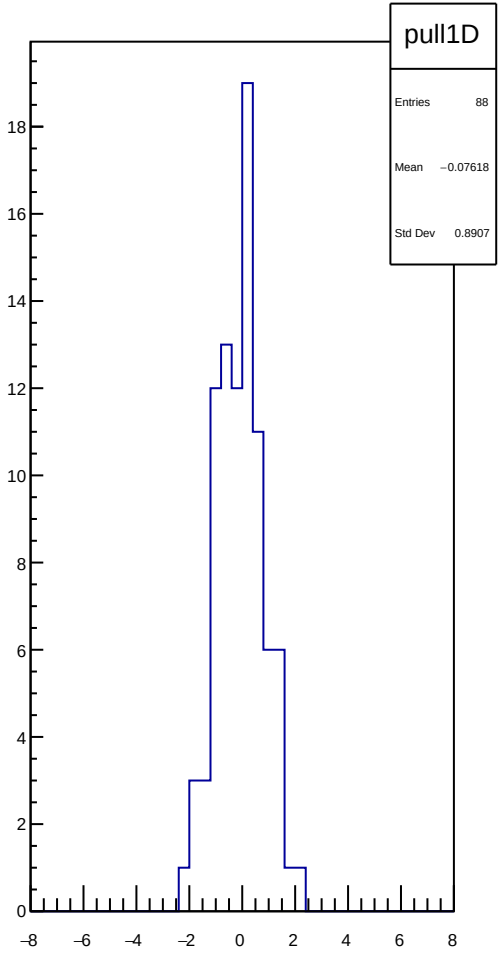

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.175e+04 / 87
p0 376.3 ± 0.2922
480
460
440
420
400
380
360
340
320
300
280

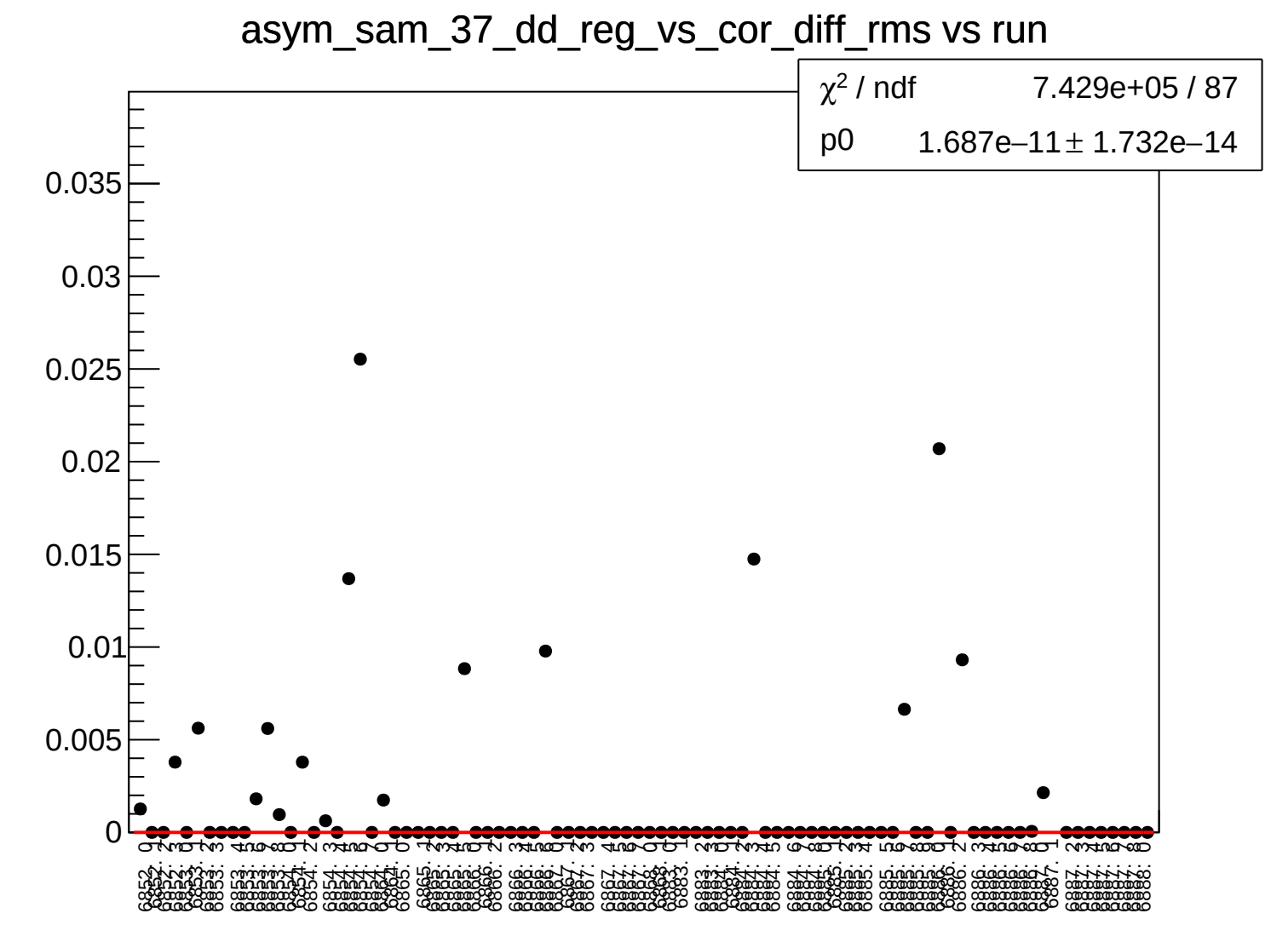

asym_sam_37_dd_mean vs run
χ² / ndf 87.29 / 87
p0 1025 ± 466.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 409.5
Std Dev 0
3
2
1
0
−1
−2

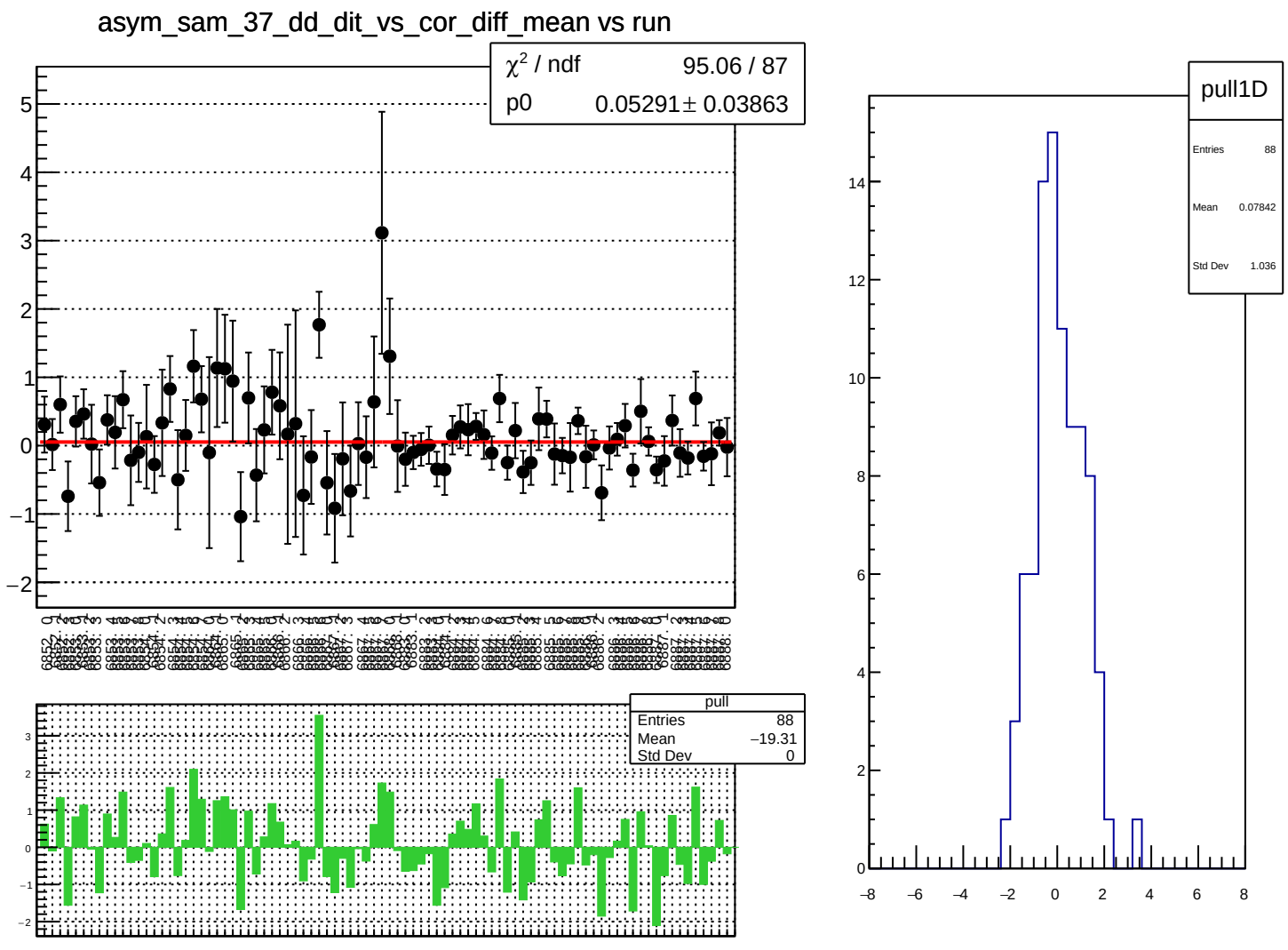

pull1D
Entries 88
Mean −0.009515
Std Dev 0.9959
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

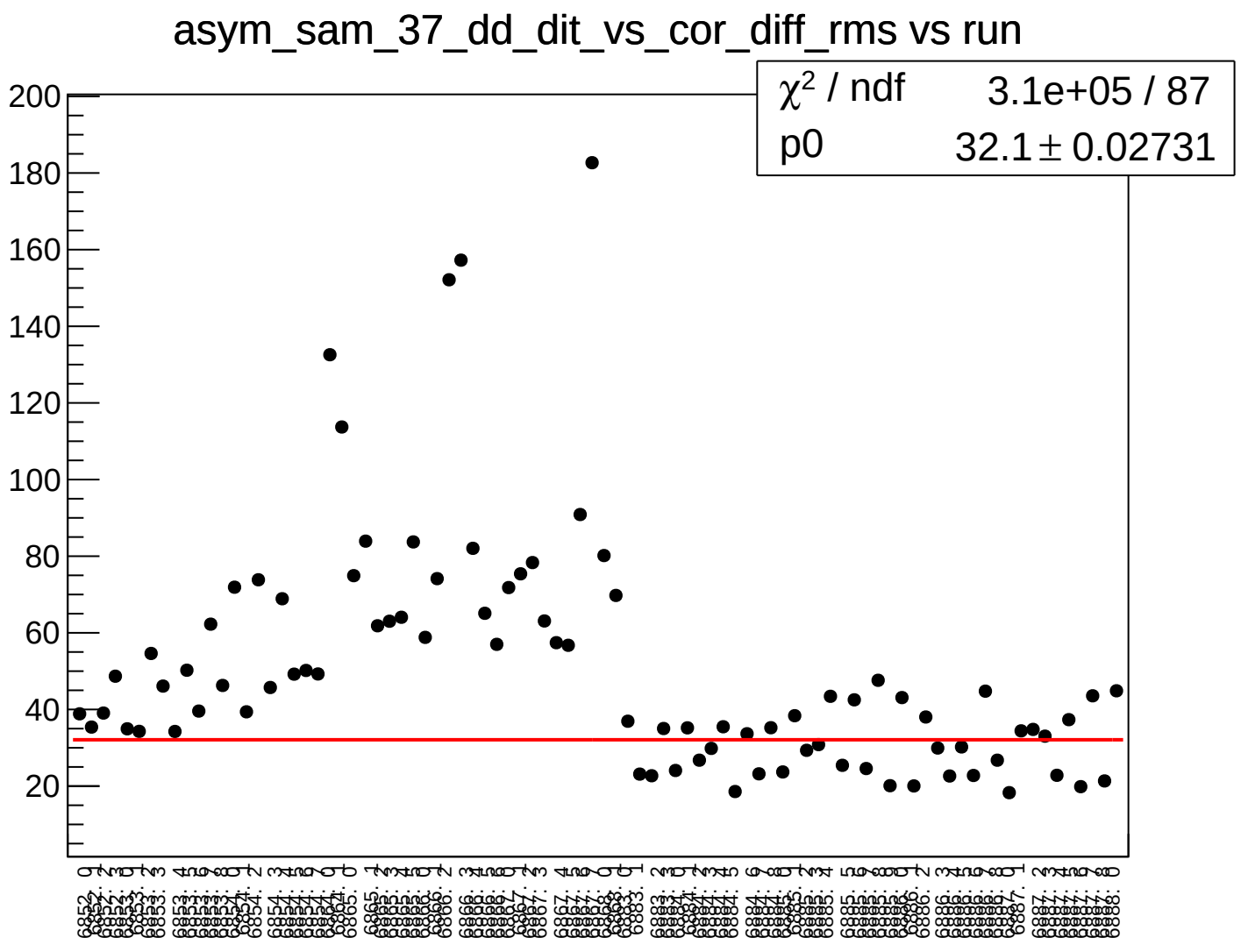

asym_sam_37_dd_rms vs run
χ² / ndf 3.601e+04 / 87
p0 424.7 ± 0.3302
650
600
550
500
450
400
350
300

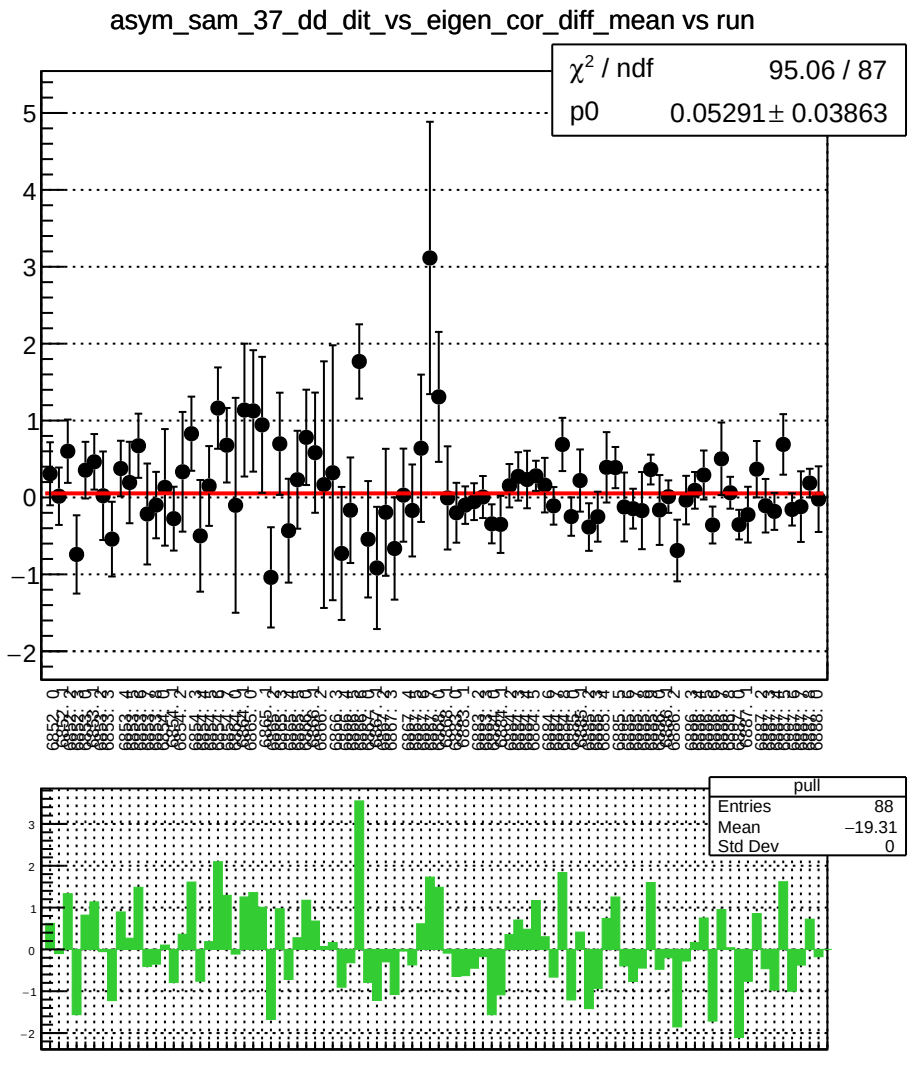

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 70.33 / 87
p0 4.369e−15 ± 2.45e−14
pull
Entries 88
Mean 11.75
Std Dev 0

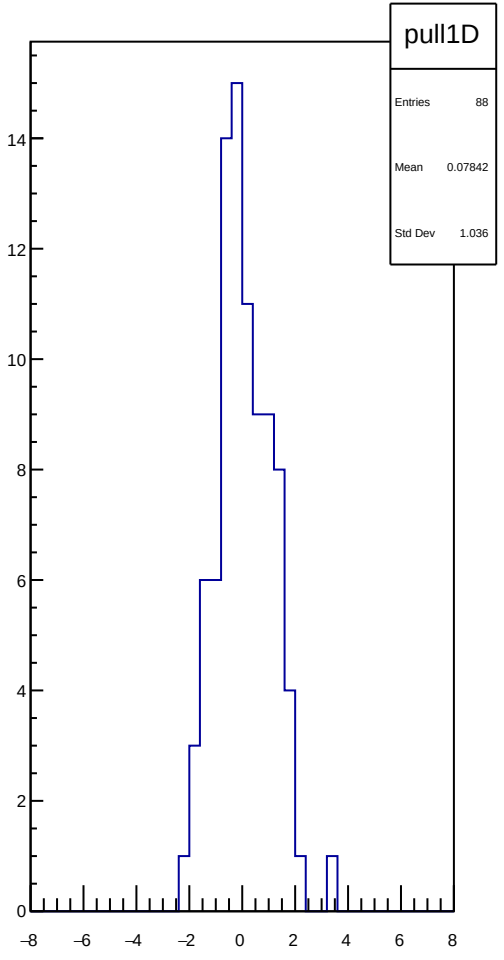

pull1D
Entries 88
Mean −0.07618
Std Dev 0.8907

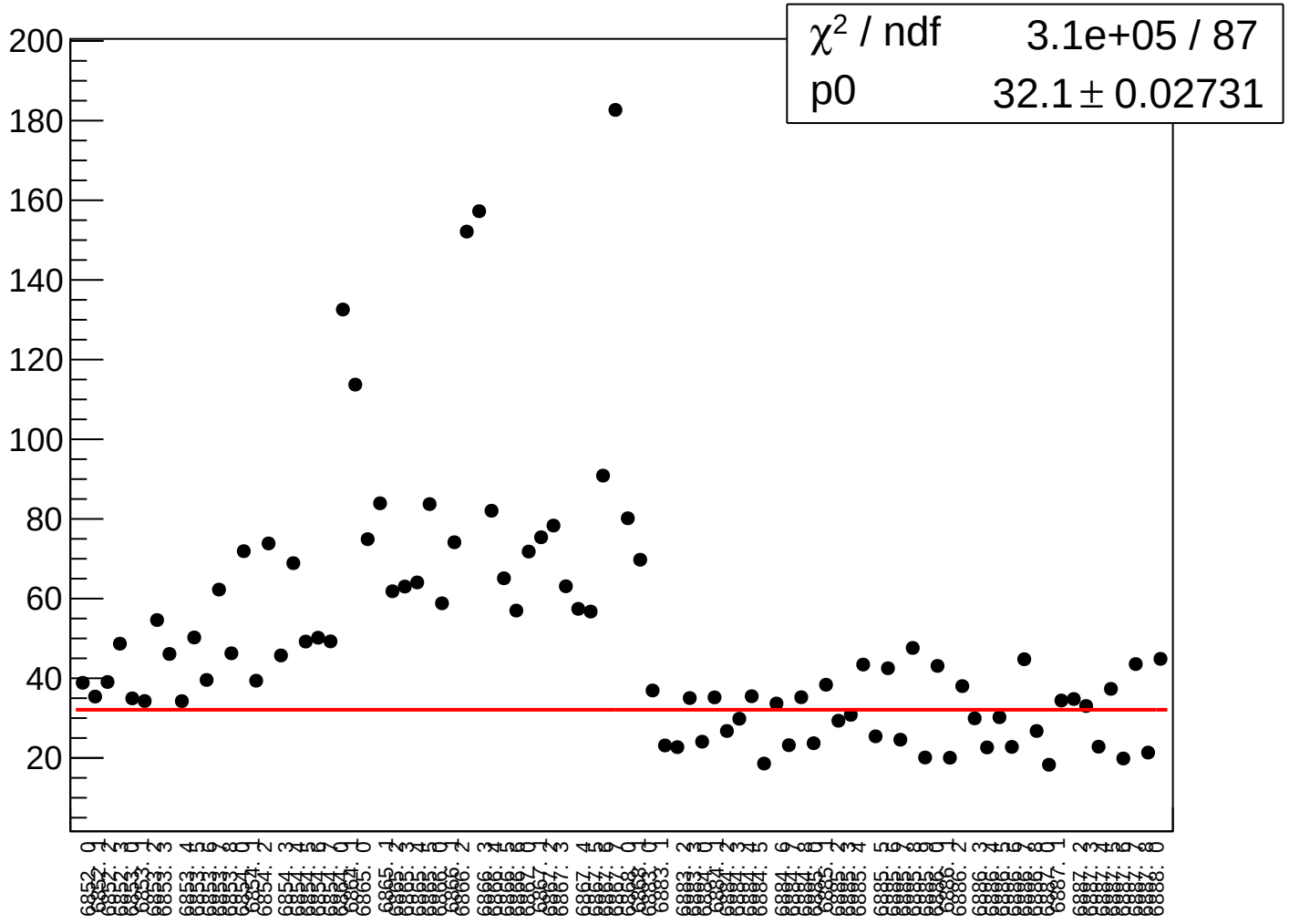

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.429e+05 / 87
p0 1.687e−11 ± 1.732e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

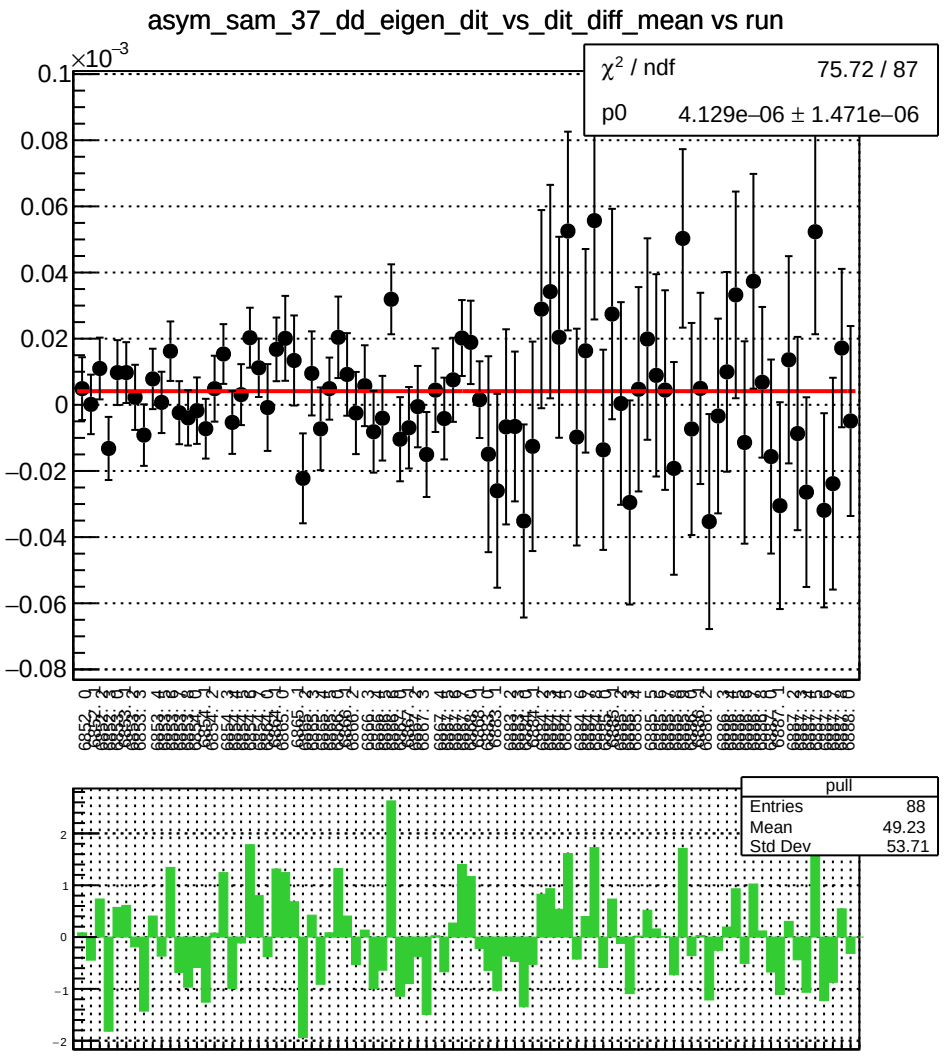

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.06 / 87
p0 0.05291 ± 0.03863
pull
Entries 88
Mean −19.31
Std Dev 0
pull1D
Entries 88
Mean 0.07842
Std Dev 1.036

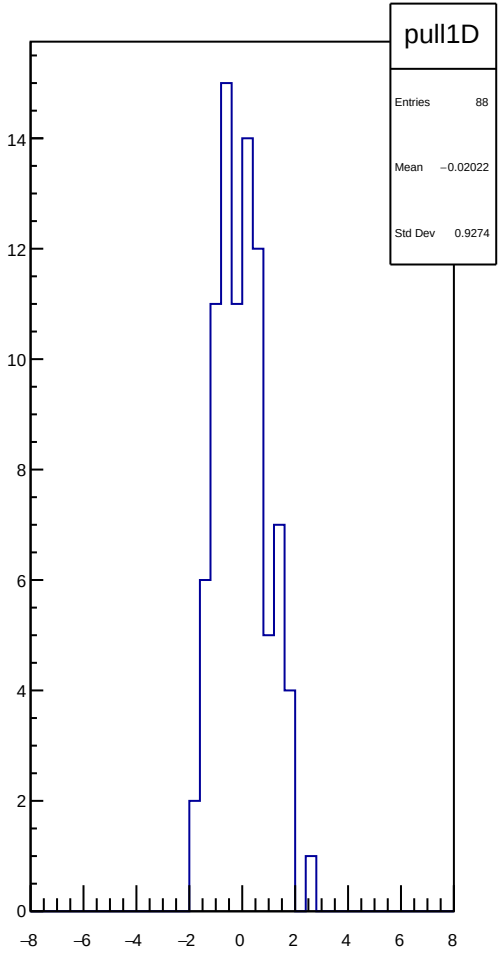

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.1e+05 / 87
p0 32.1 ± 0.02731
200
180
160
140
120
100
80
60
40
20

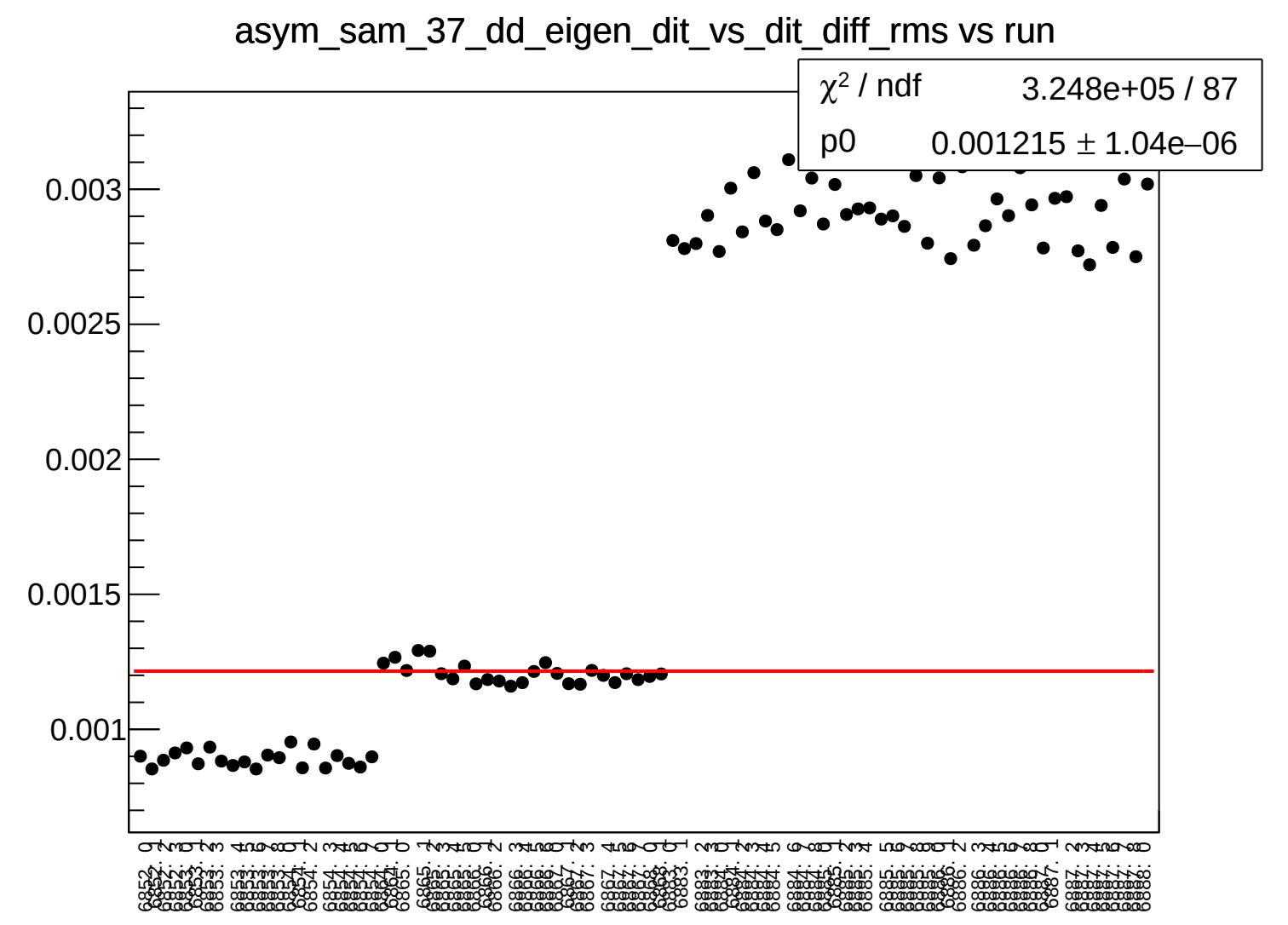

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.06 / 87
p0 0.05291 ± 0.03863
pull
Entries 88
Mean −19.31
Std Dev 0

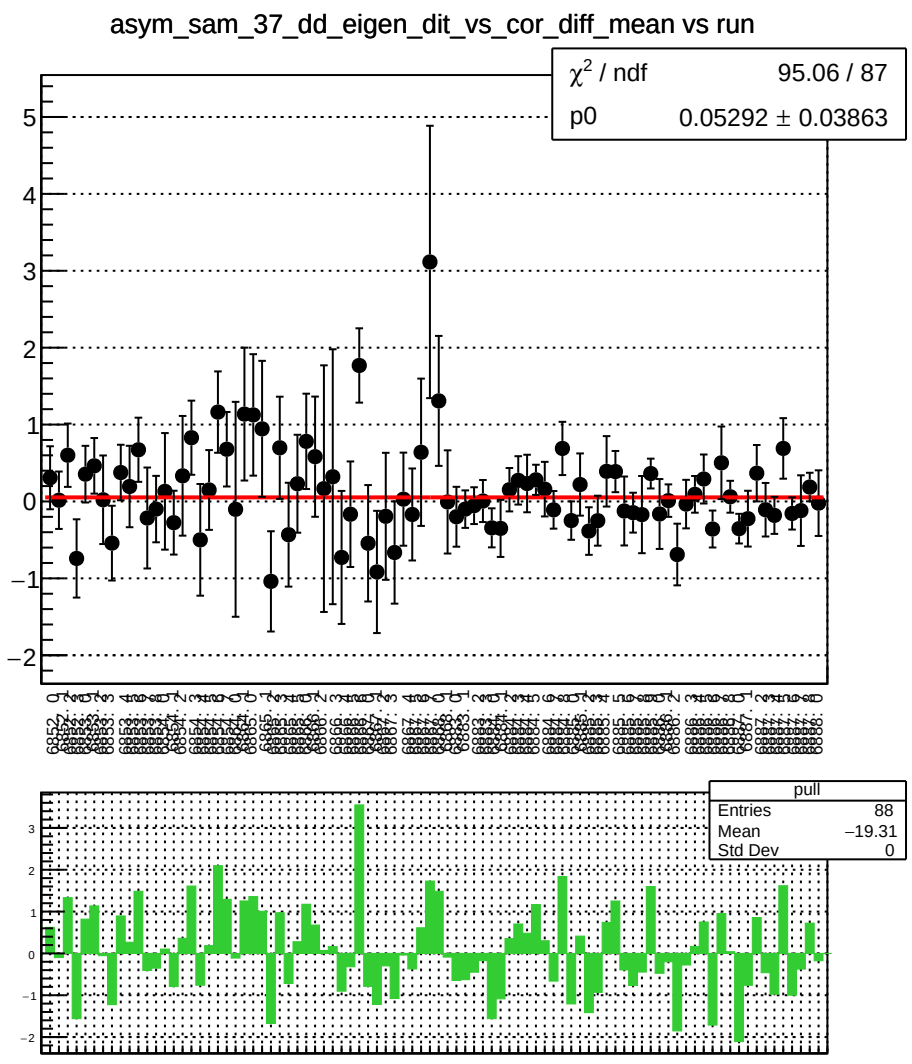

pull1D
Entries 88
Mean 0.07842
Std Dev 1.036

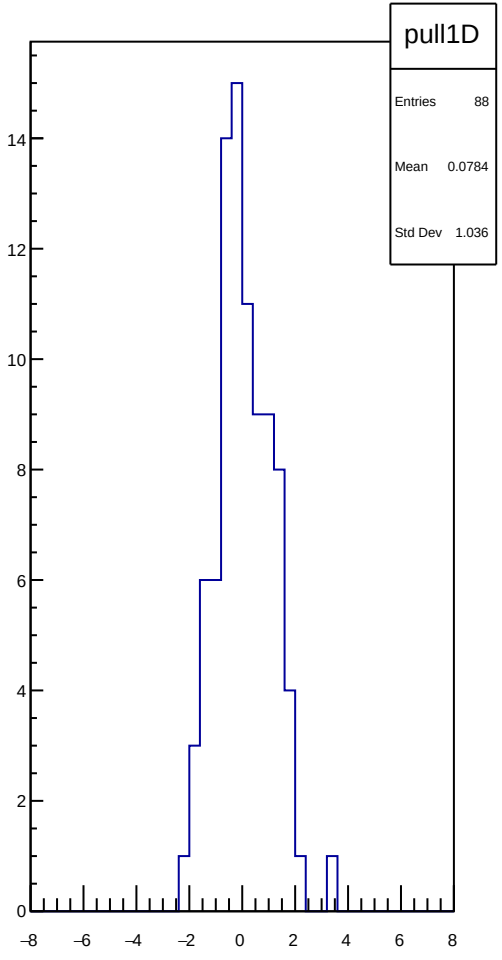

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.1e+05 / 87
p0 32.1 ± 0.02731
200
180
160
140
120
100
80
60
40
20

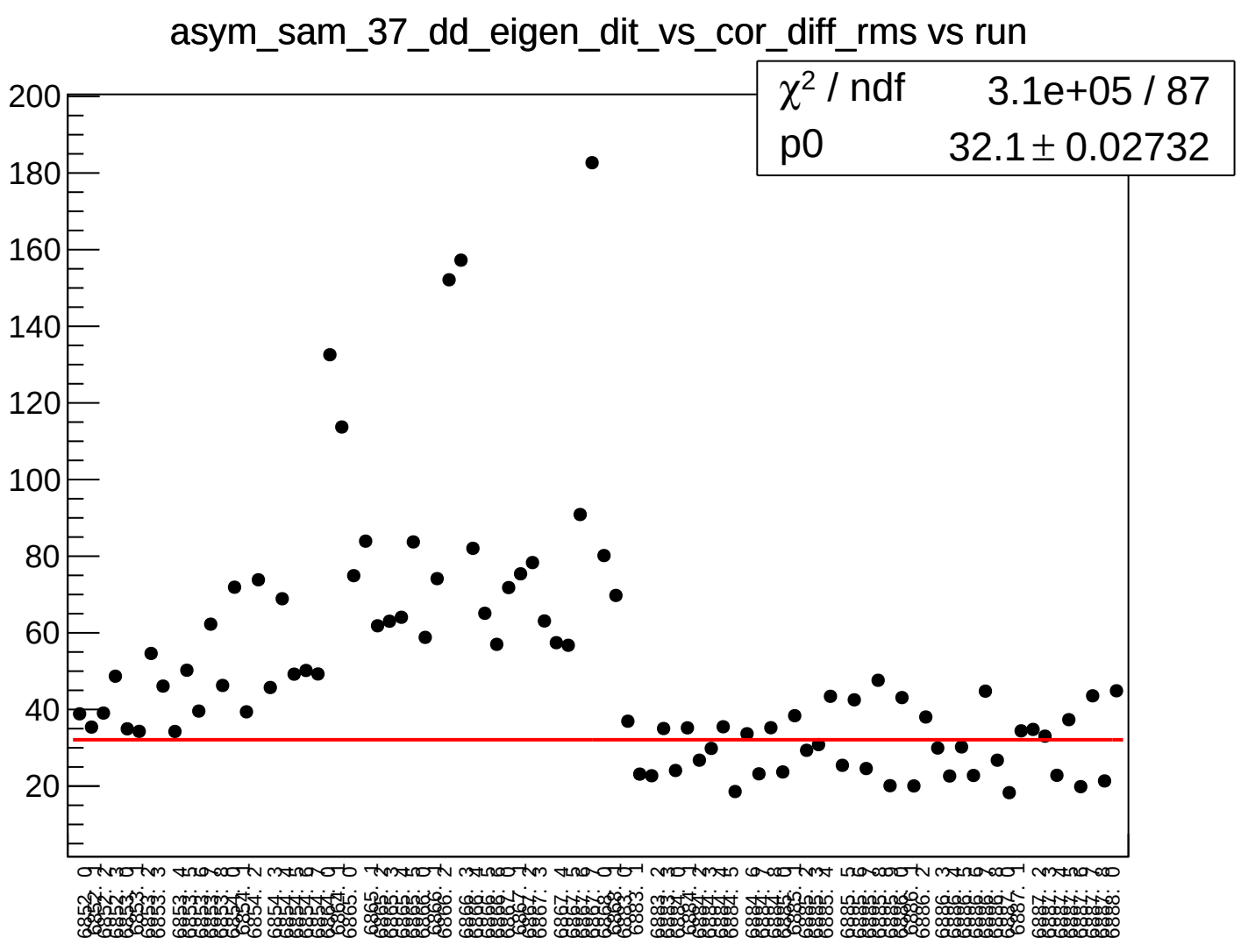

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.72 / 87
p0 4.129e−06 ± 1.471e−06
pull
Entries 88
Mean 49.23
Std Dev 53.71

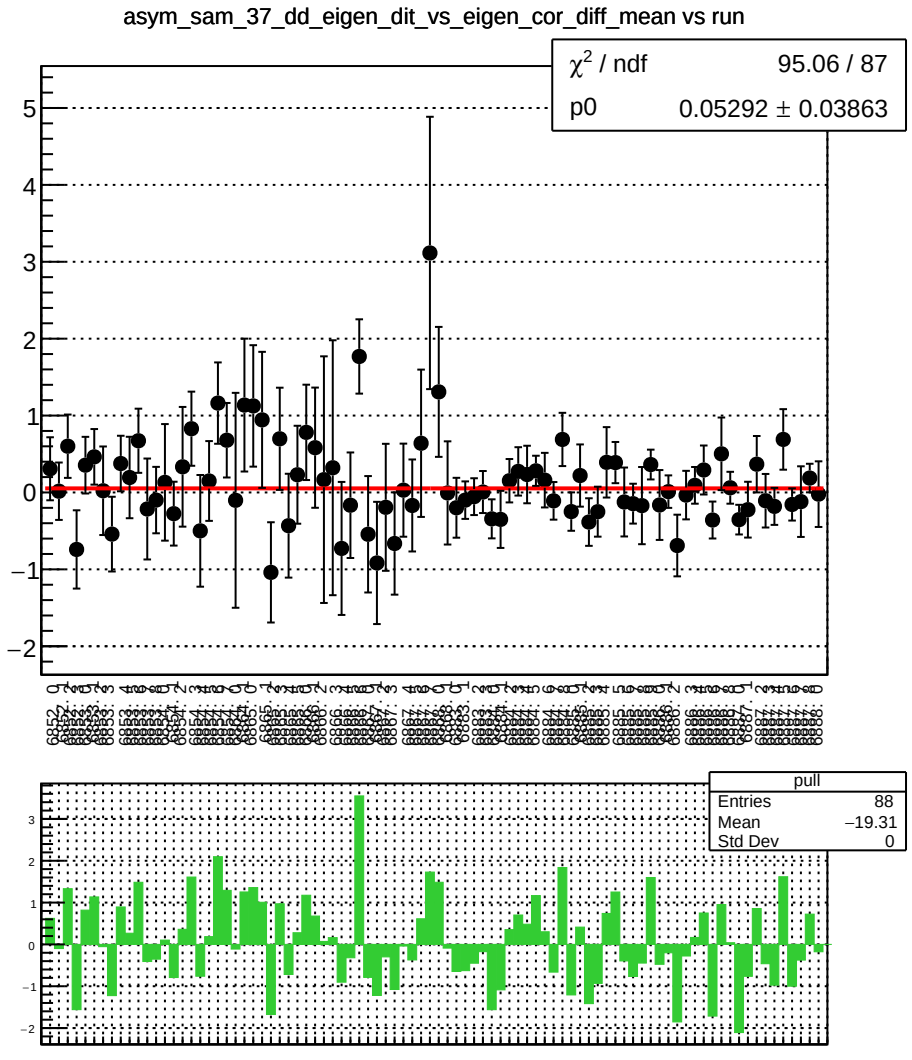

pull1D
Entries 88
Mean −0.02022
Std Dev 0.9274

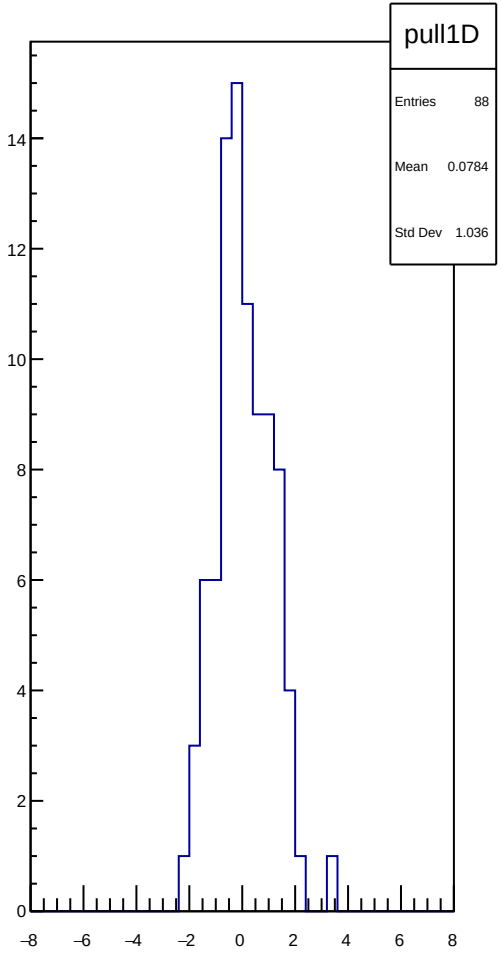

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.248e+05 / 87
p0 0.001215 ± 1.04e−06
0.003
0.0025
0.002
0.0015
0.001

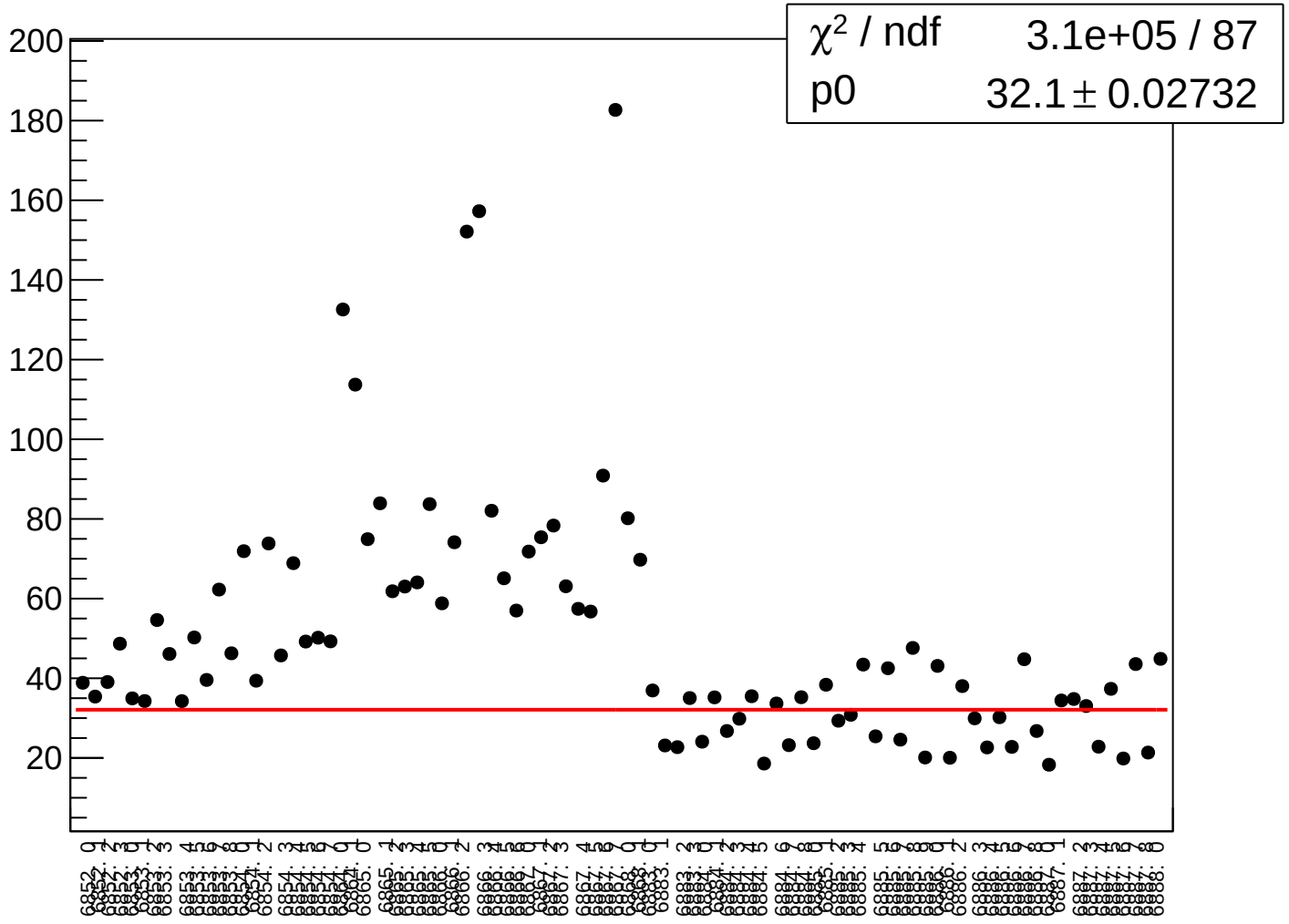

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.06 / 87
p0 0.05292 ± 0.03863
pull
Entries 88
Mean −19.31
Std Dev 0

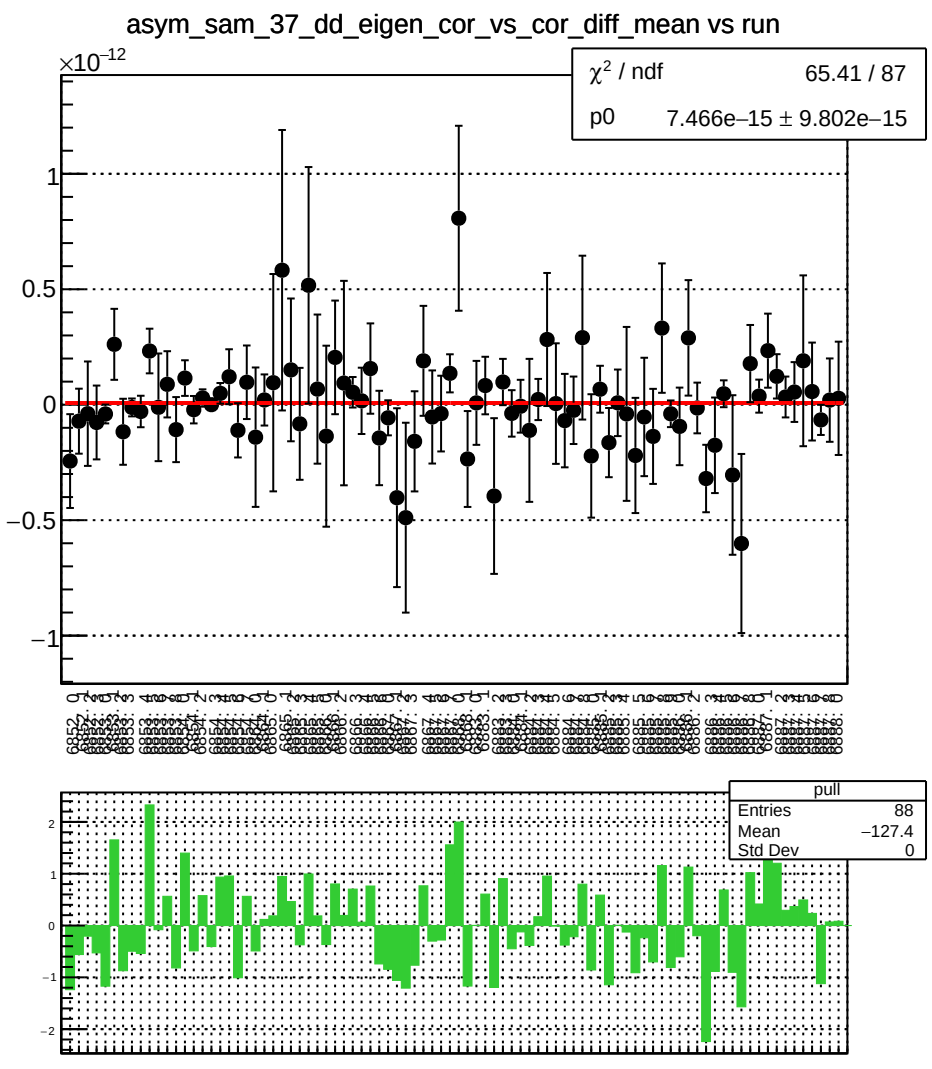

pull1D
Entries 88
Mean 0.0784
Std Dev 1.036

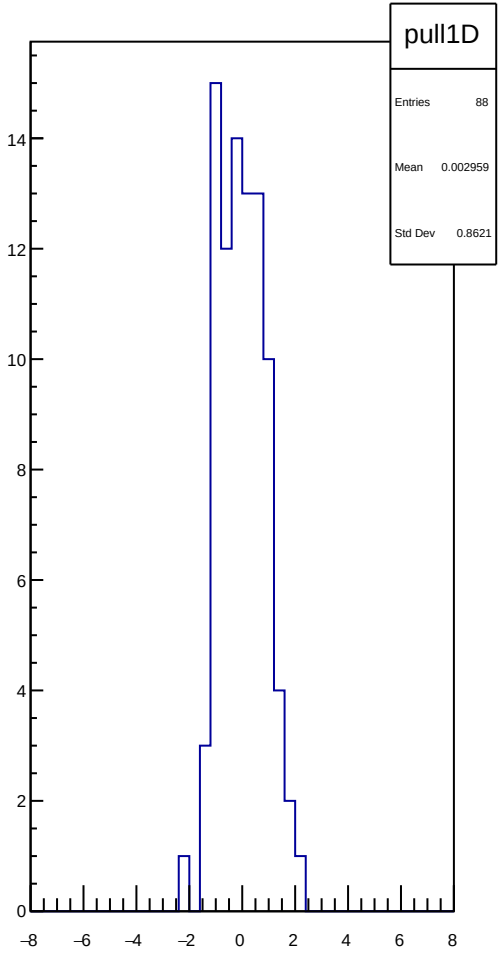

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.1e+05 / 87
p0 32.1 ± 0.02732
200
180
160
140
120
100
80
60
40
20

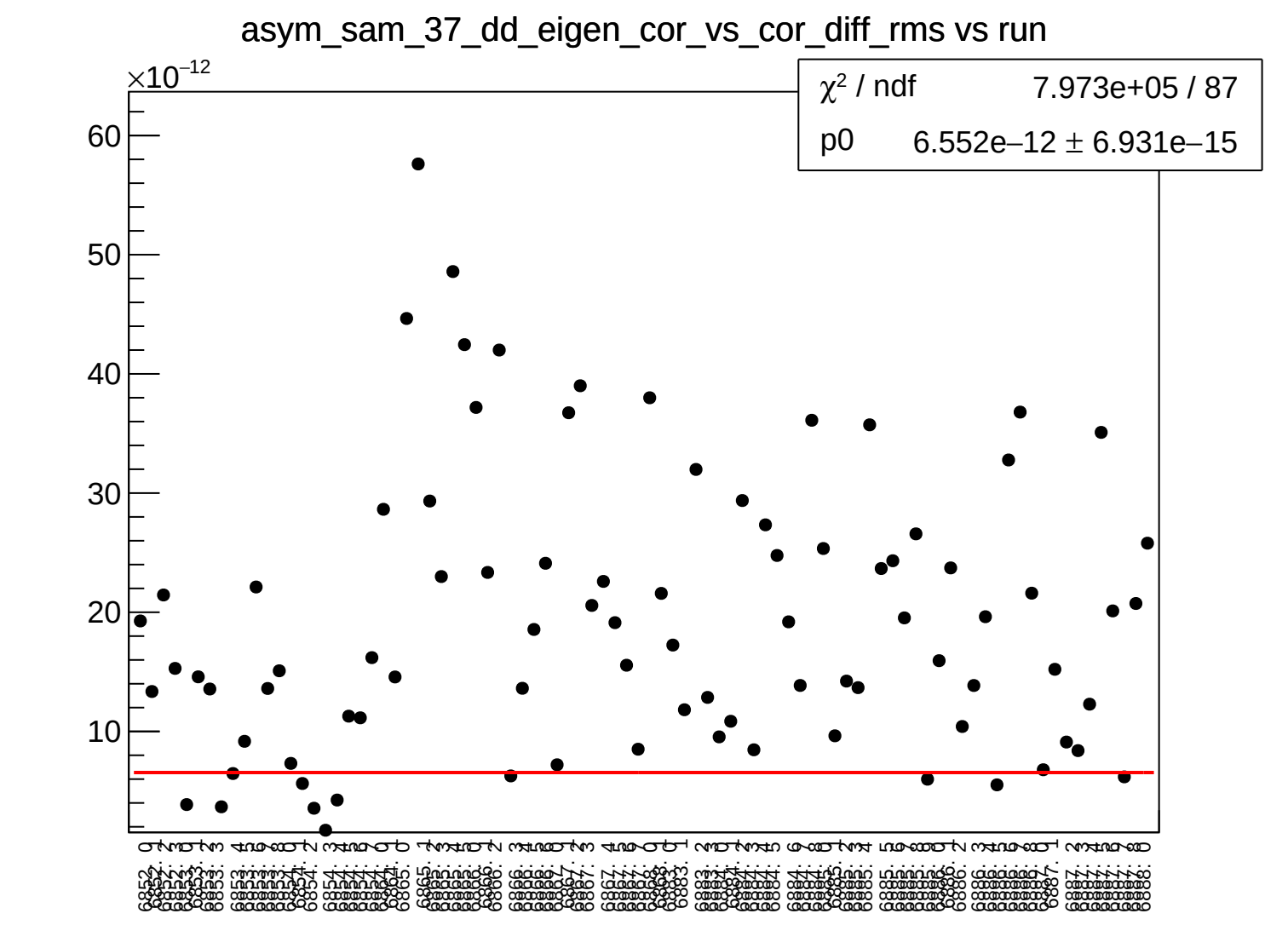

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.06 / 87
p0 0.05292 ± 0.03863
pull
Entries 88
Mean −19.31
Std Dev 0

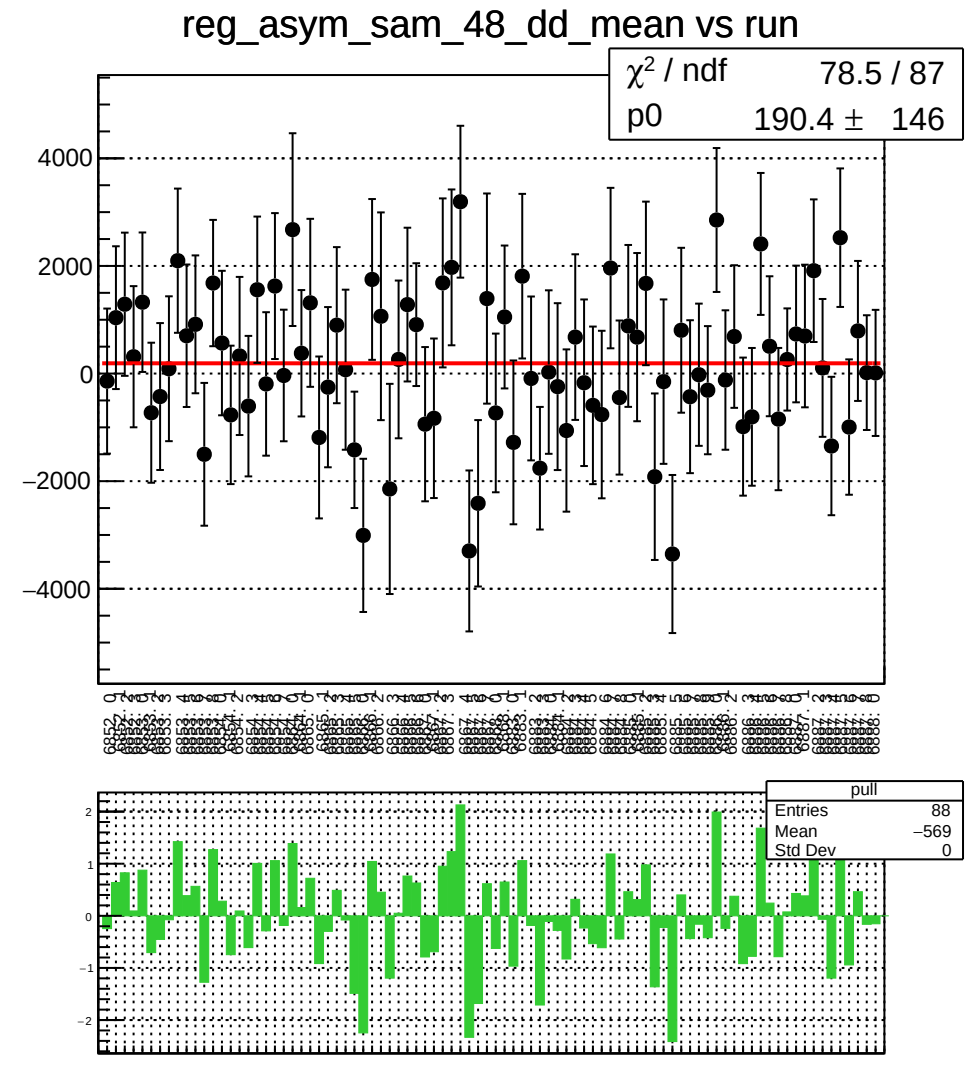

pull1D
Entries 88
Mean 0.0784
Std Dev 1.036

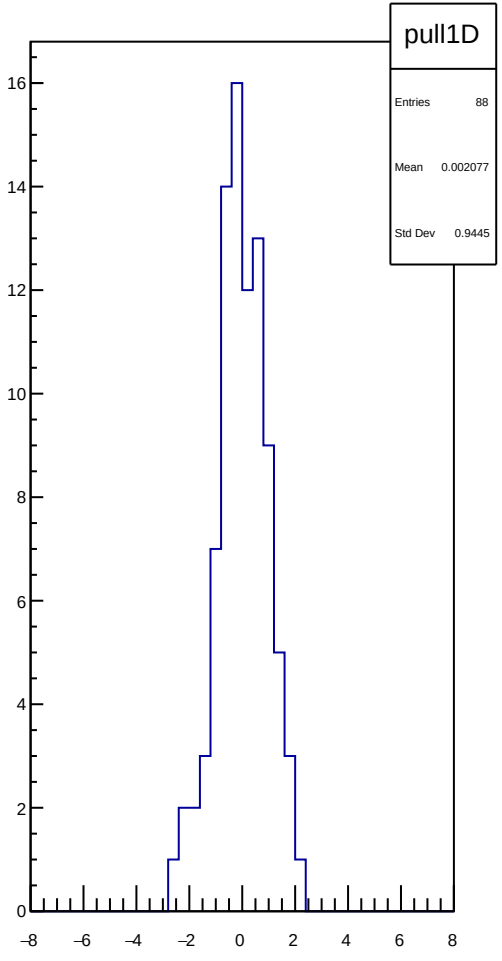

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.1e+05 / 87
p0 32.1 ± 0.02732
200
180
160
140
120
100
80
60
40
20

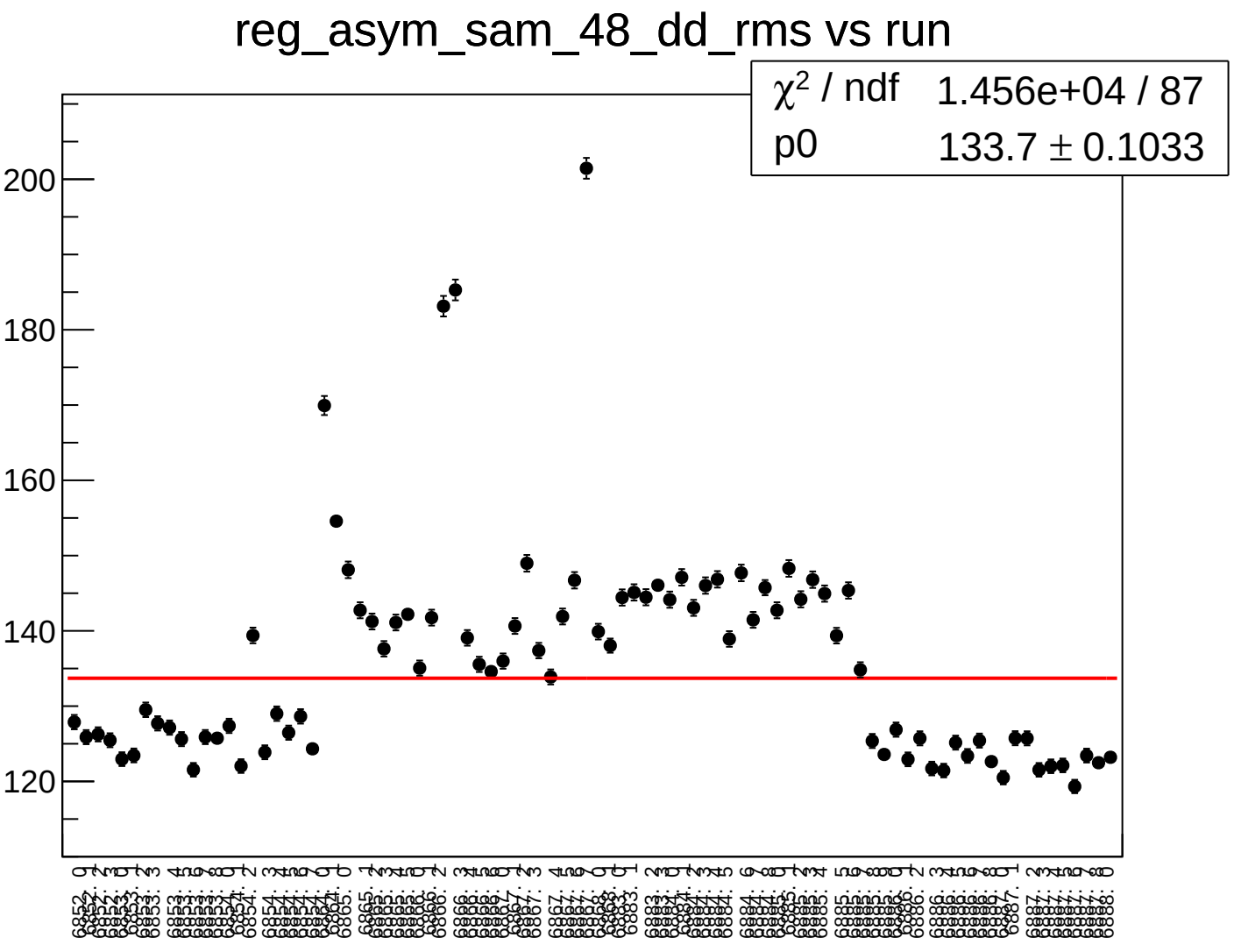

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 65.41 / 87
p0 7.466e−15 ± 9.802e−15
1
0.5
0
−0.5
−1
pull
Entries 88
Mean −127.4
Std Dev 0
2
1
0
−1
−2

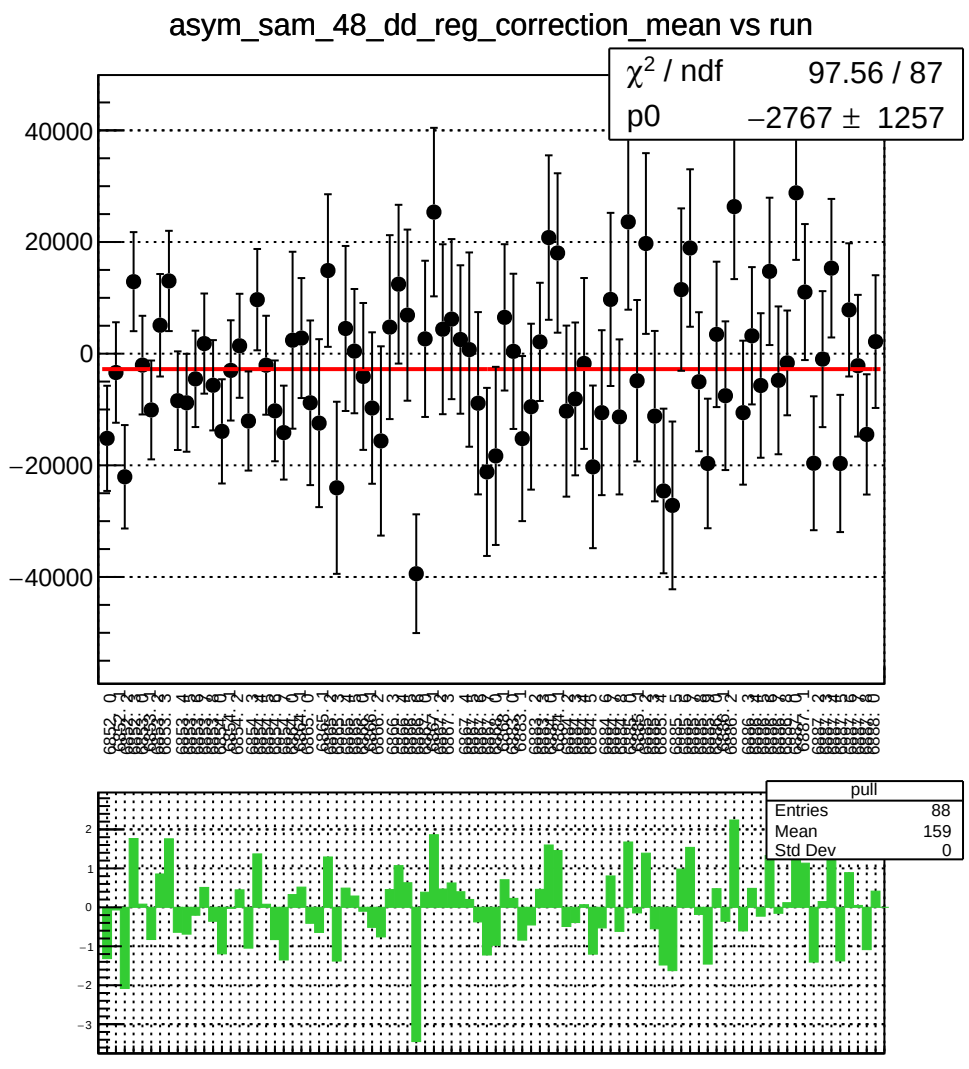

pull1D
Entries 88
Mean 0.002959
Std Dev 0.8621
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

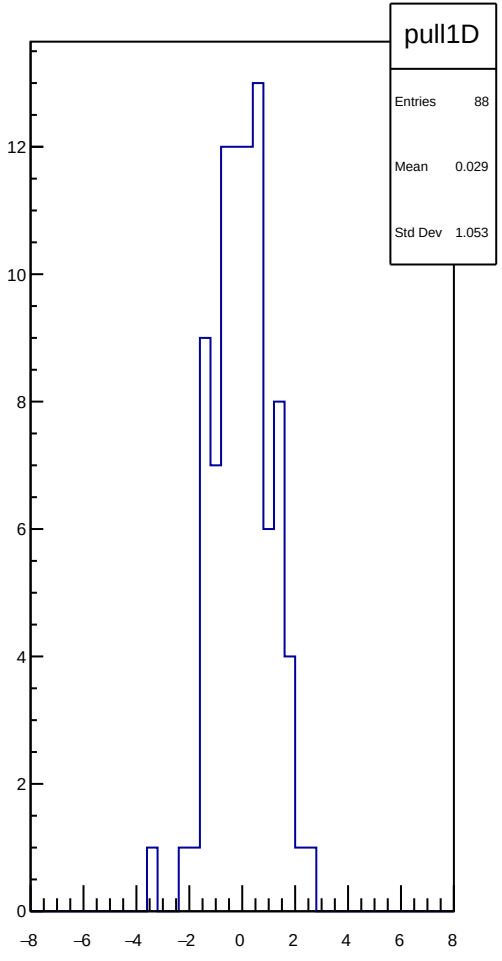

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.973e+05 / 87
p0 6.552e−12 ± 6.931e−15
60
50
40
30
20
10

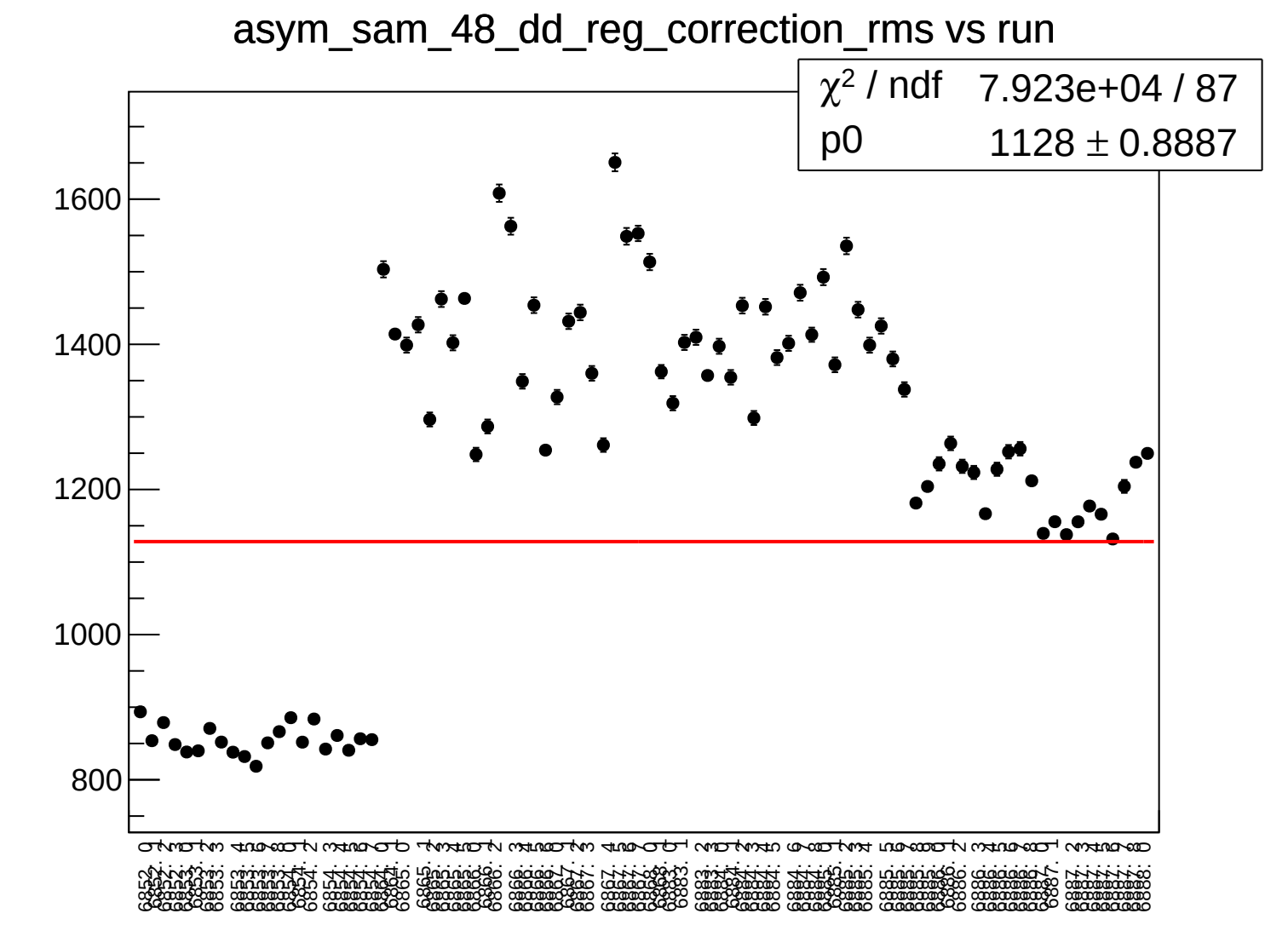

reg_asym_sam_48_dd_mean vs run
χ² / ndf 78.5 / 87
p0 190.4 ± 146
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −569
Std Dev 0
2
1
0
−1
−2

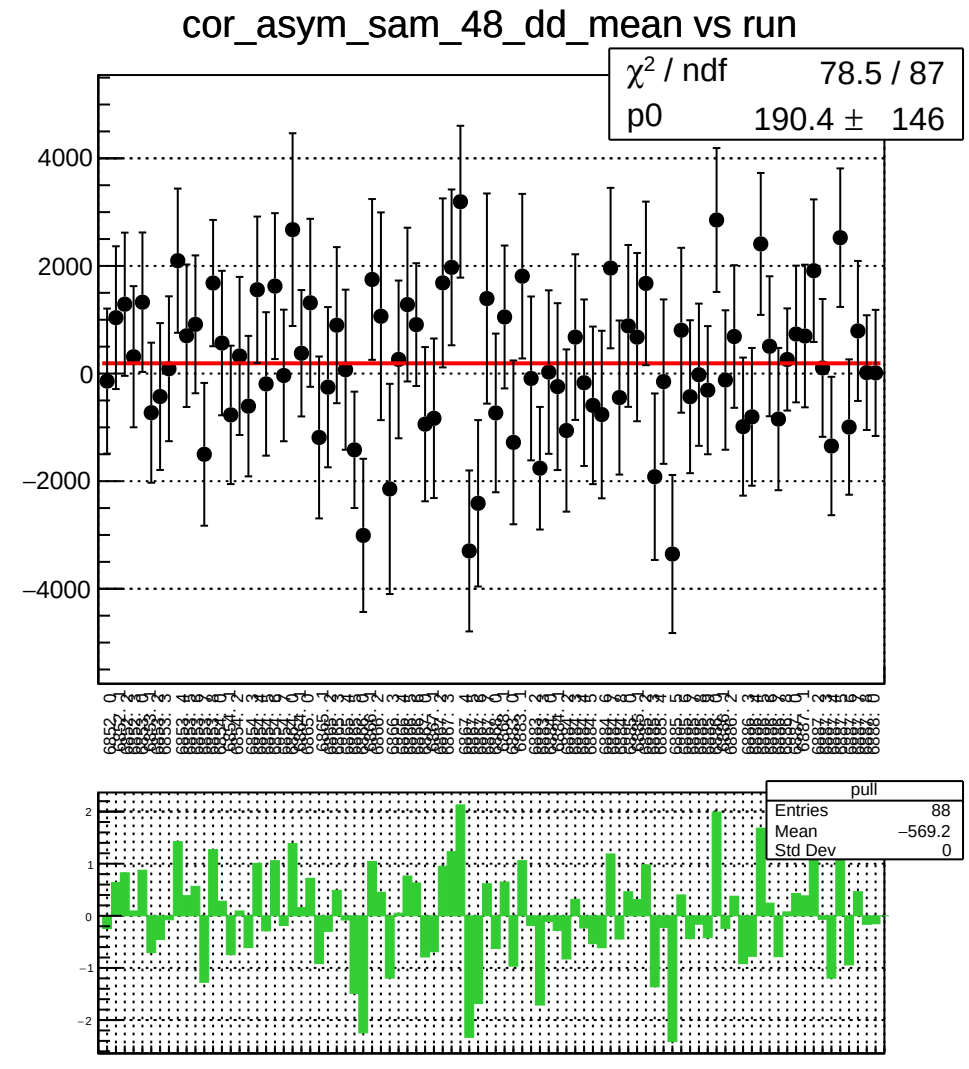

pull1D
Entries 88
Mean 0.002077
Std Dev 0.9445
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

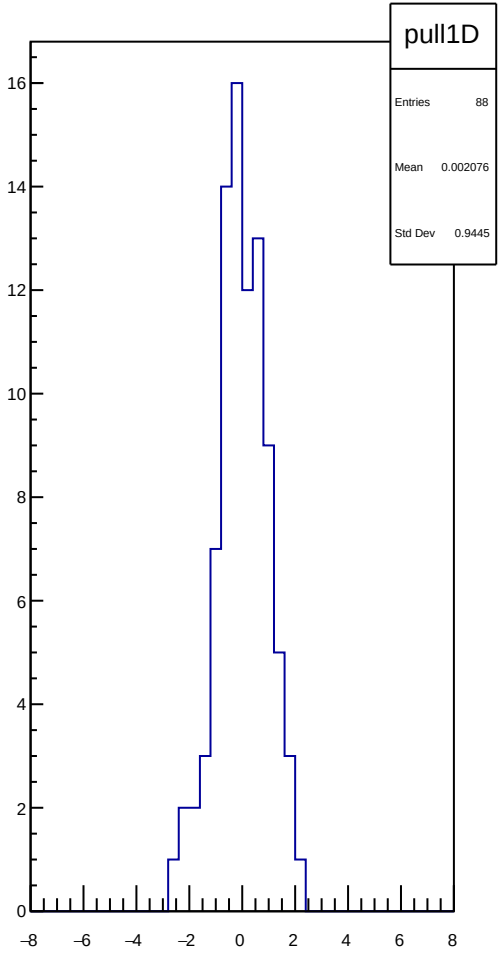

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.456e+04 / 87
p0 133.7 ± 0.1033
200
180
160
140
120

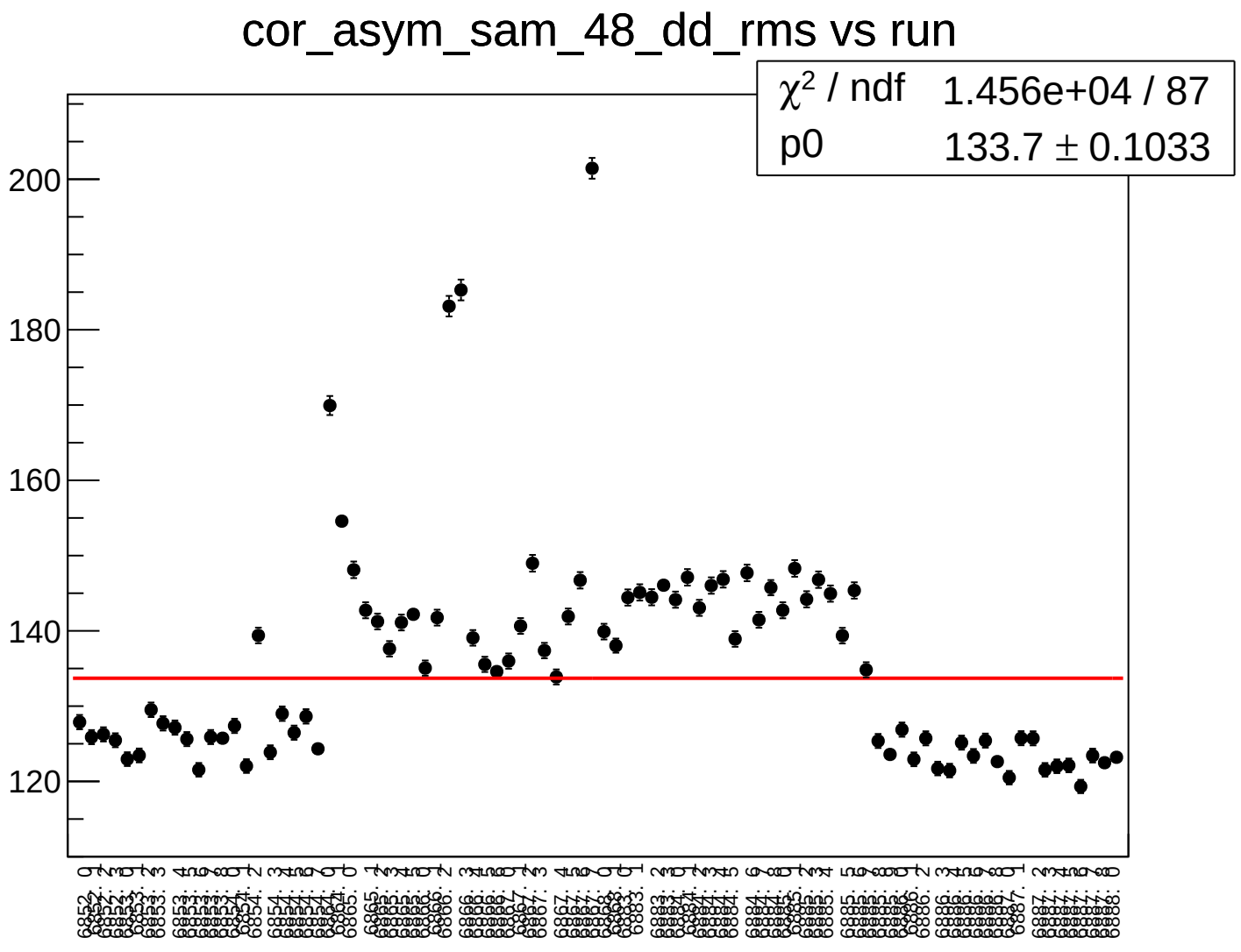

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 97.56 / 87
p0 −2767 ± 1257
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 159
Std Dev 0
2
1
0
−1
−2
−3

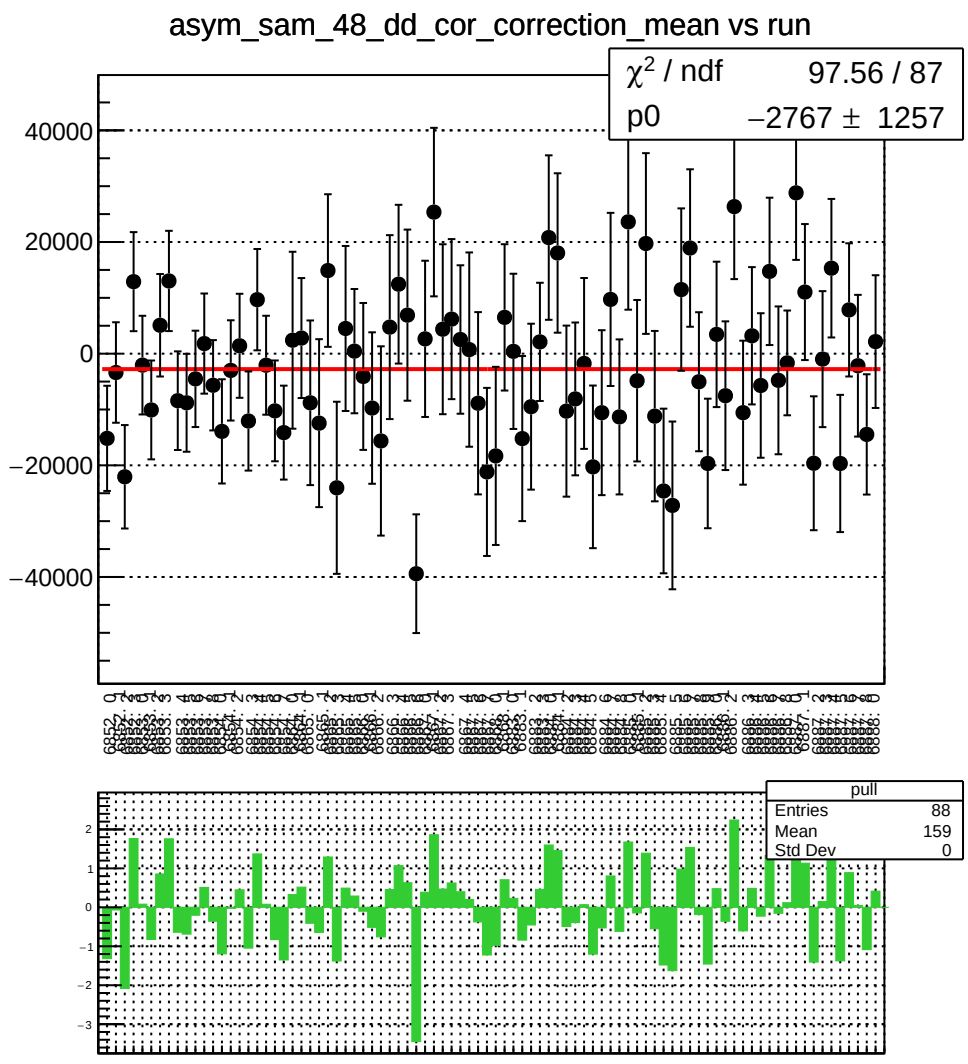

pull1D
Entries 88
Mean 0.029
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

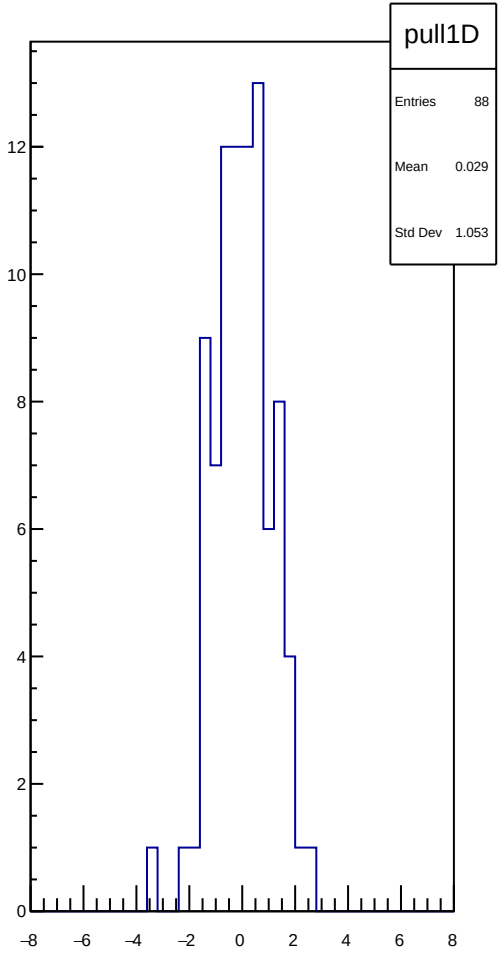

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 7.923e+04 / 87
p0 1128 ± 0.8887
1600
1400
1200
1000
800

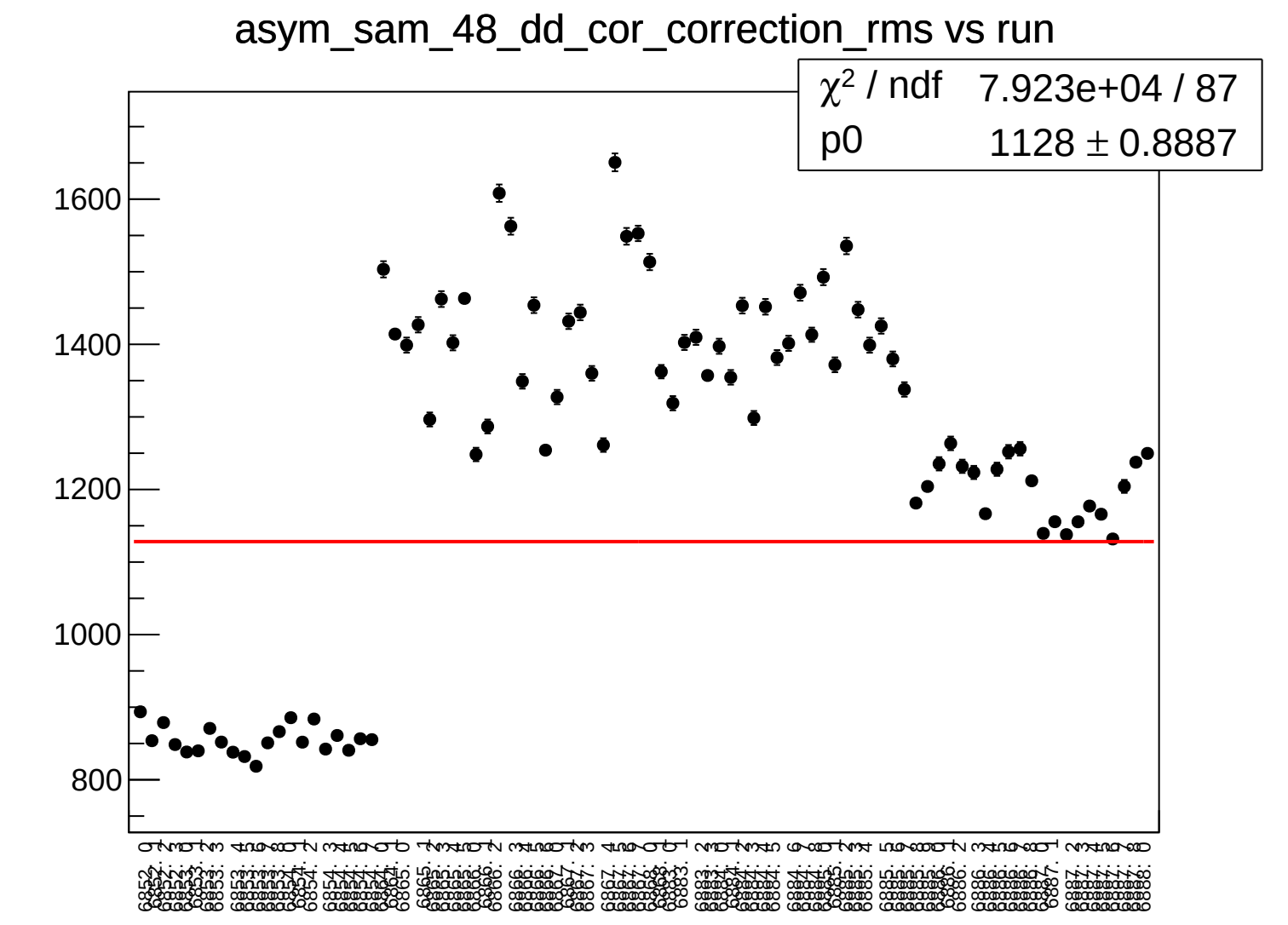

cor_asym_sam_48_dd_mean vs run
χ² / ndf 78.5 / 87
p0 190.4 ± 146
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −569.2
Std Dev 0
2
1
0
−1
−2

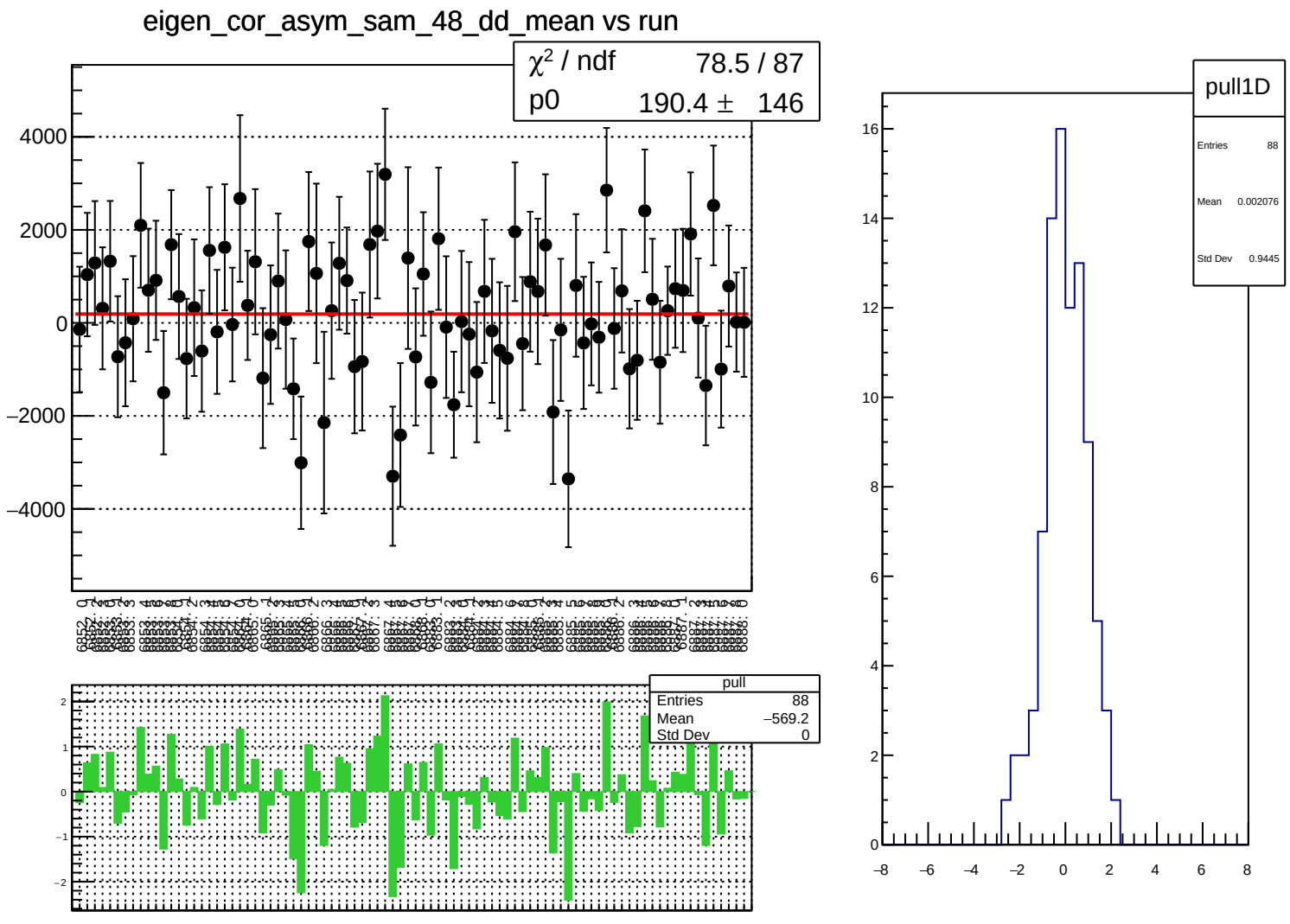

pull1D
Entries 88
Mean 0.002076
Std Dev 0.9445
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

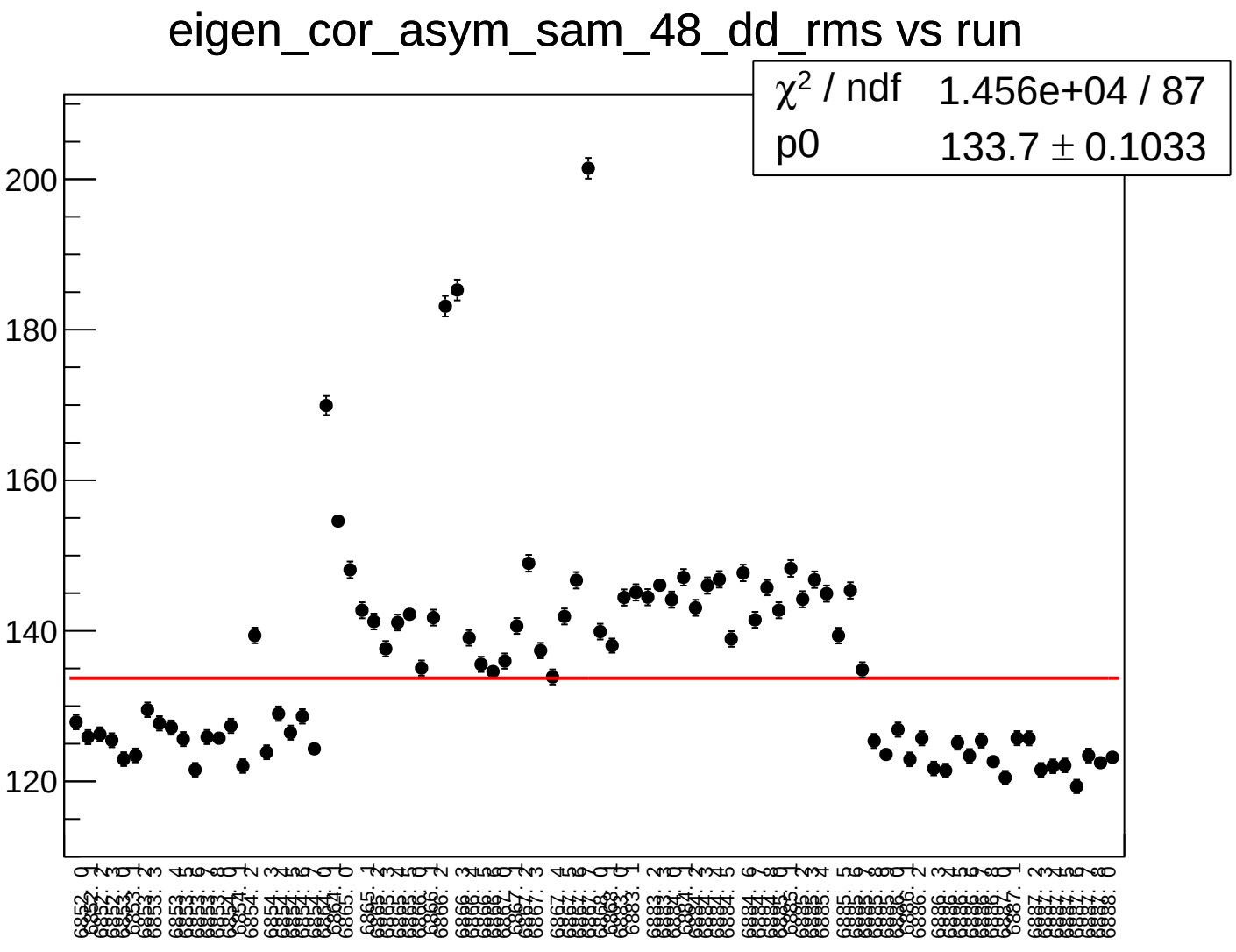

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.456e+04 / 87
p0 133.7 ± 0.1033
200
180
160
140
120

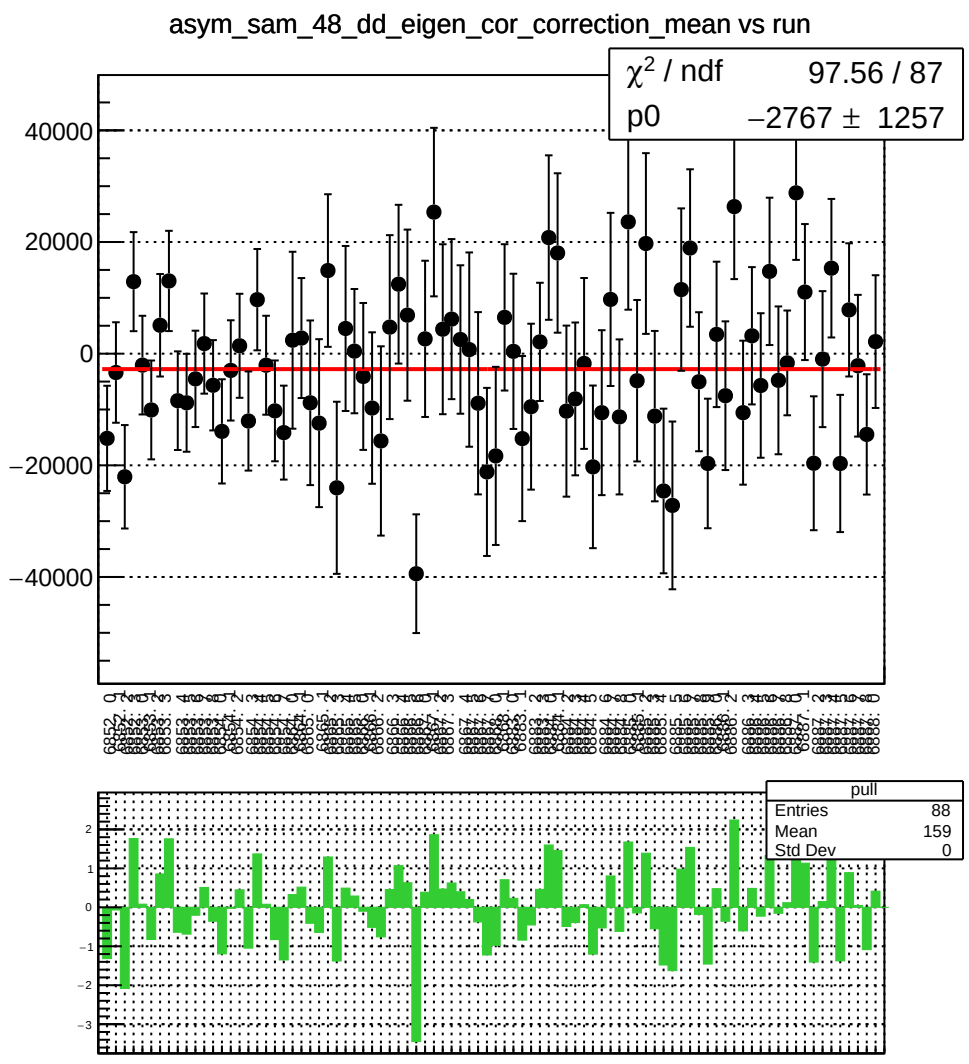

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 97.56 / 87
p0 −2767 ± 1257
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 159
Std Dev 0
2
1
0
−1
−2
−3

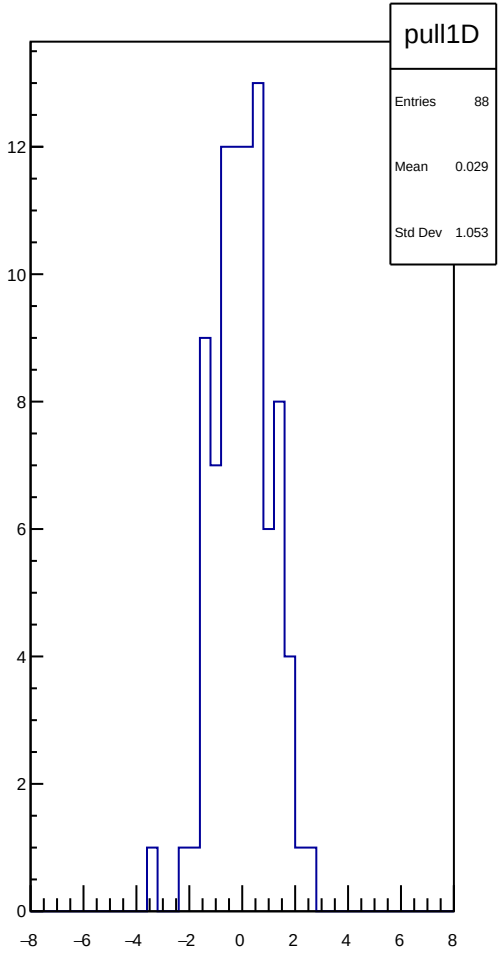

pull1D
Entries 88
Mean 0.029
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

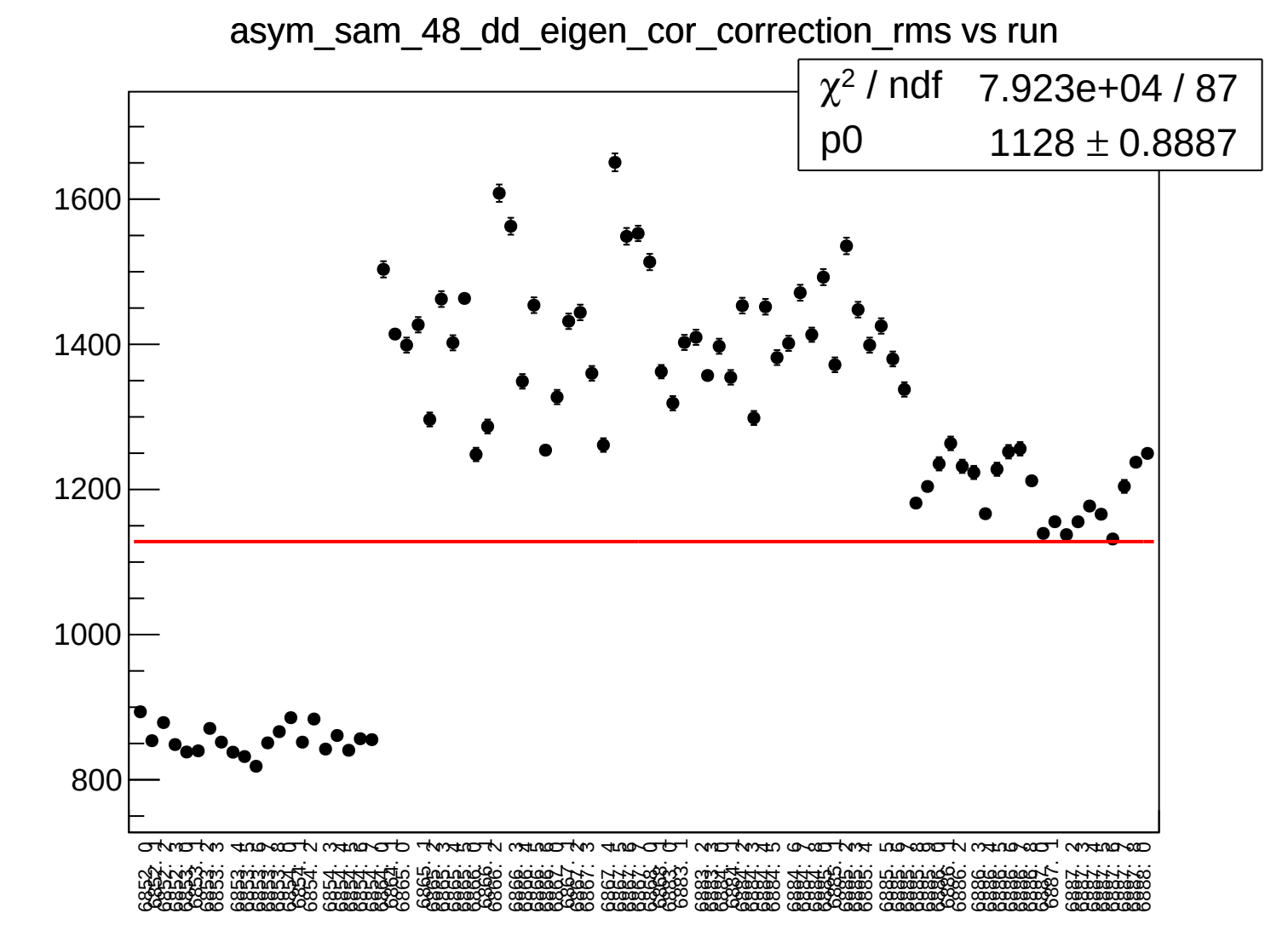

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 7.923e+04 / 87
p0 1128 ± 0.8887
1600
1400
1200
1000
800

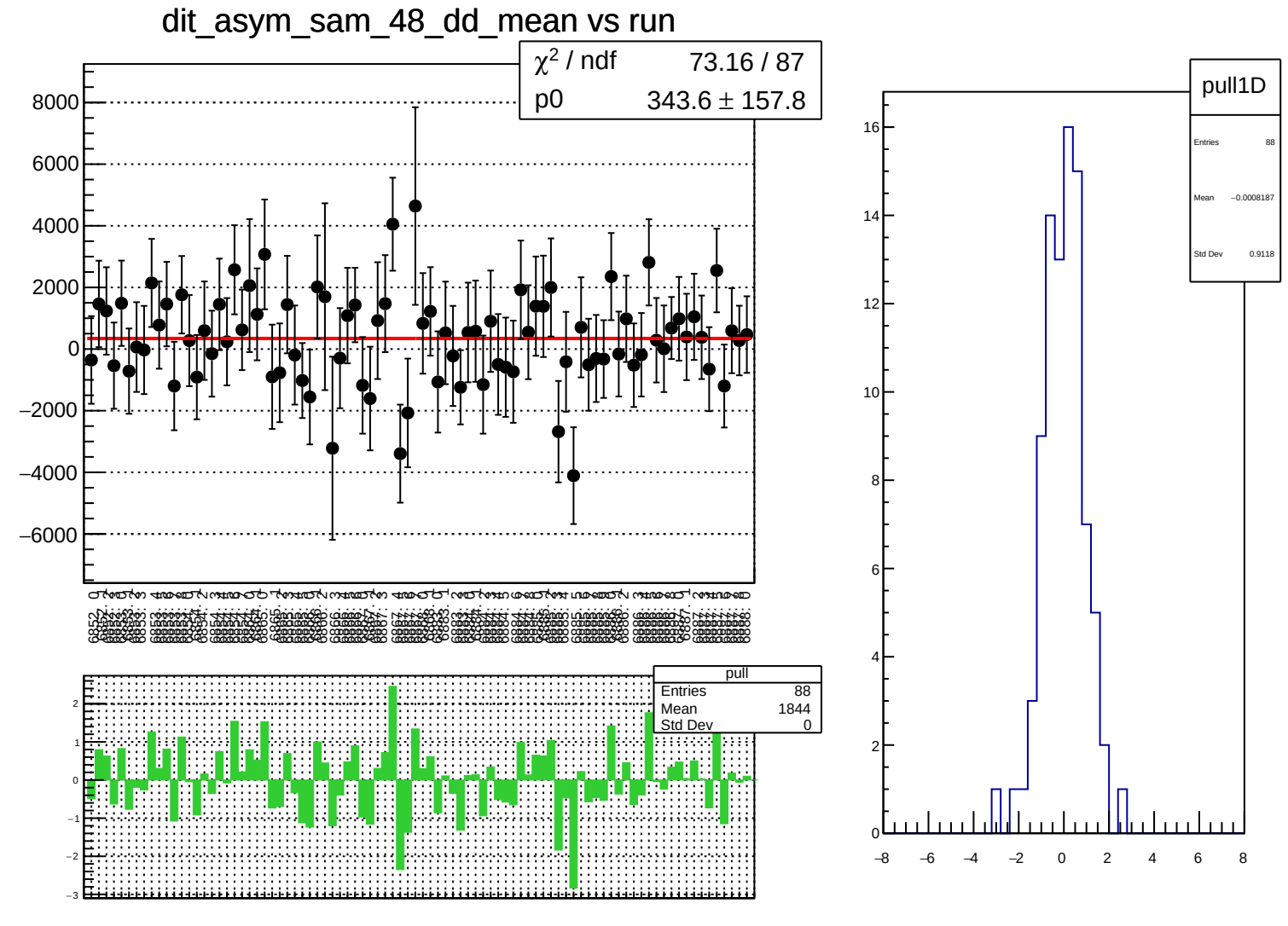

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 78.5 / 87
p0 190.4 ± 146
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −569.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.002076
Std Dev 0.9445
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

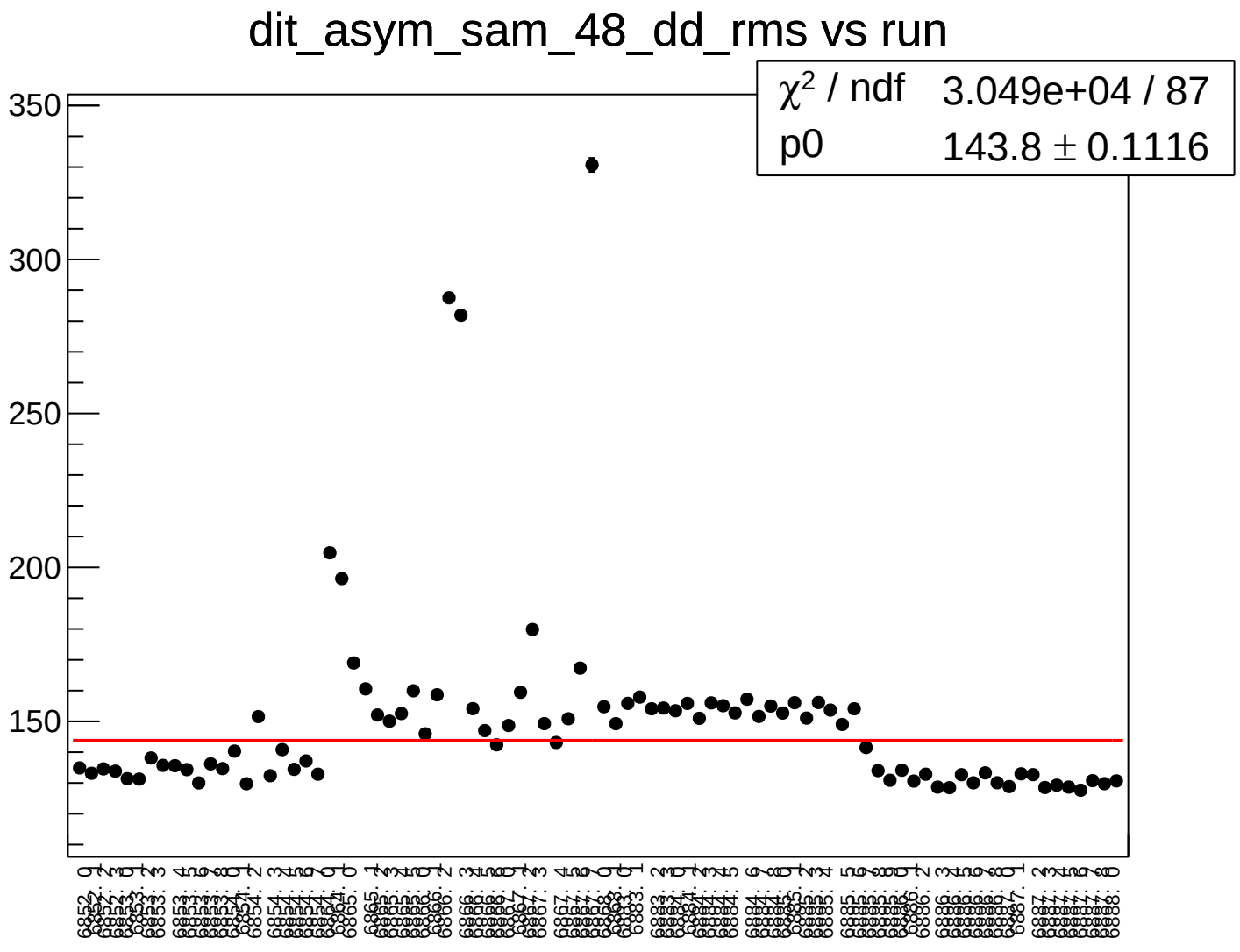

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1.456e+04 / 87
p0 133.7 ± 0.1033
200
180
160
140
120

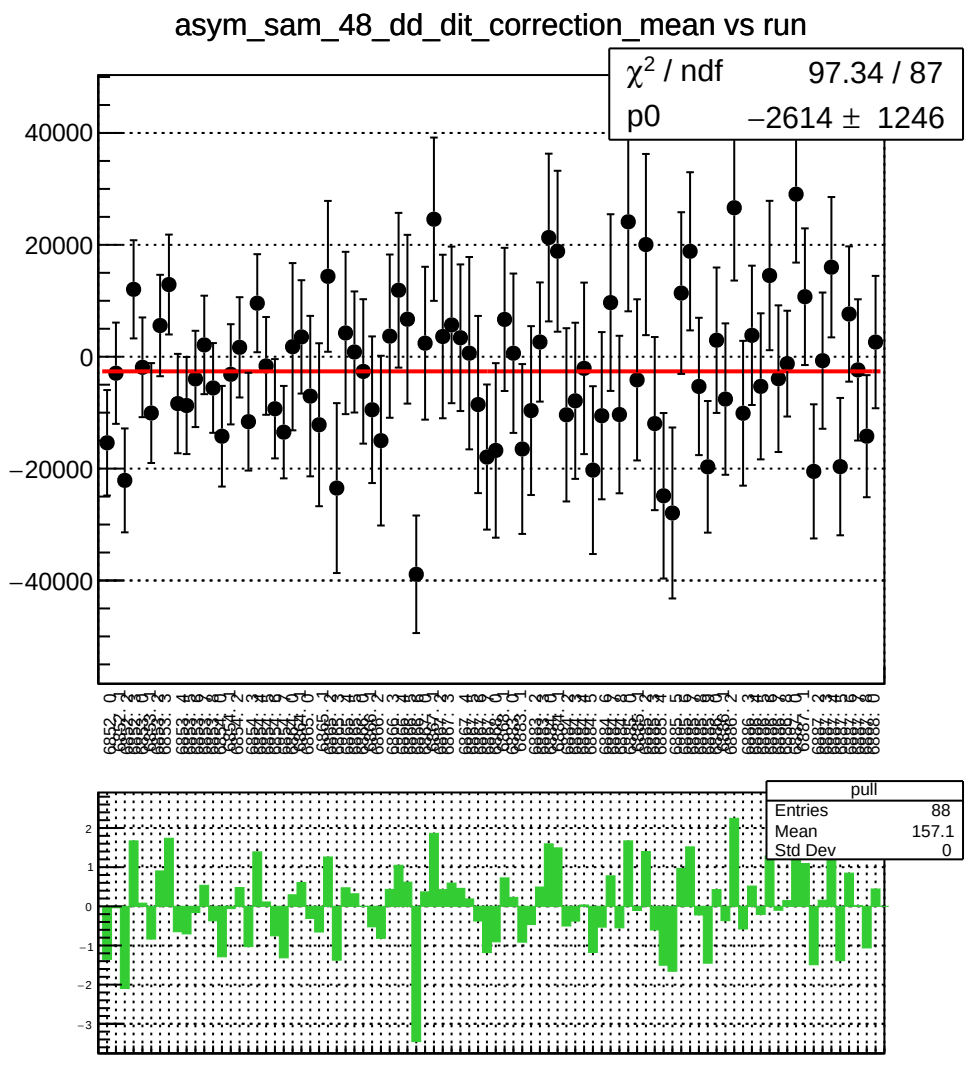

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.56 / 87
p0 −2767 ± 1257
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 159
Std Dev 0
2
1
0
−1
−2
−3

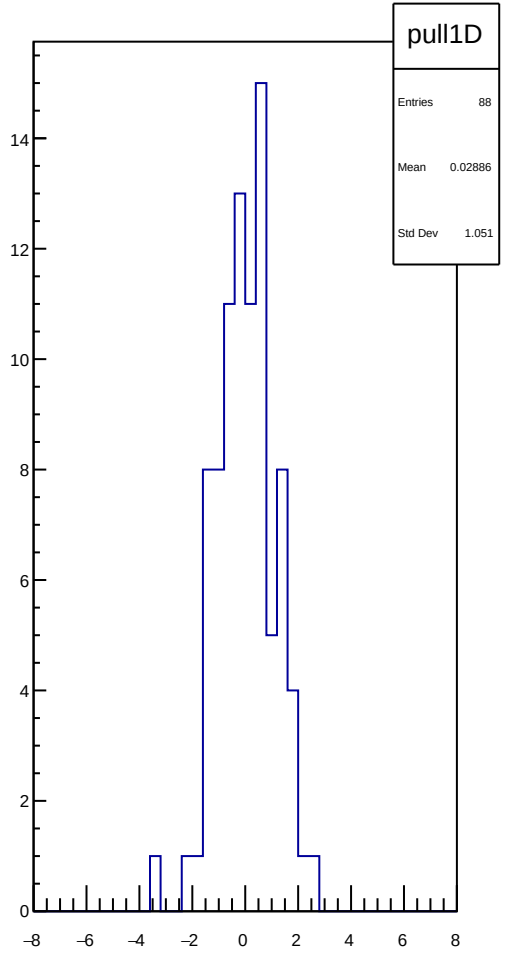

pull1D
Entries 88
Mean 0.029
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

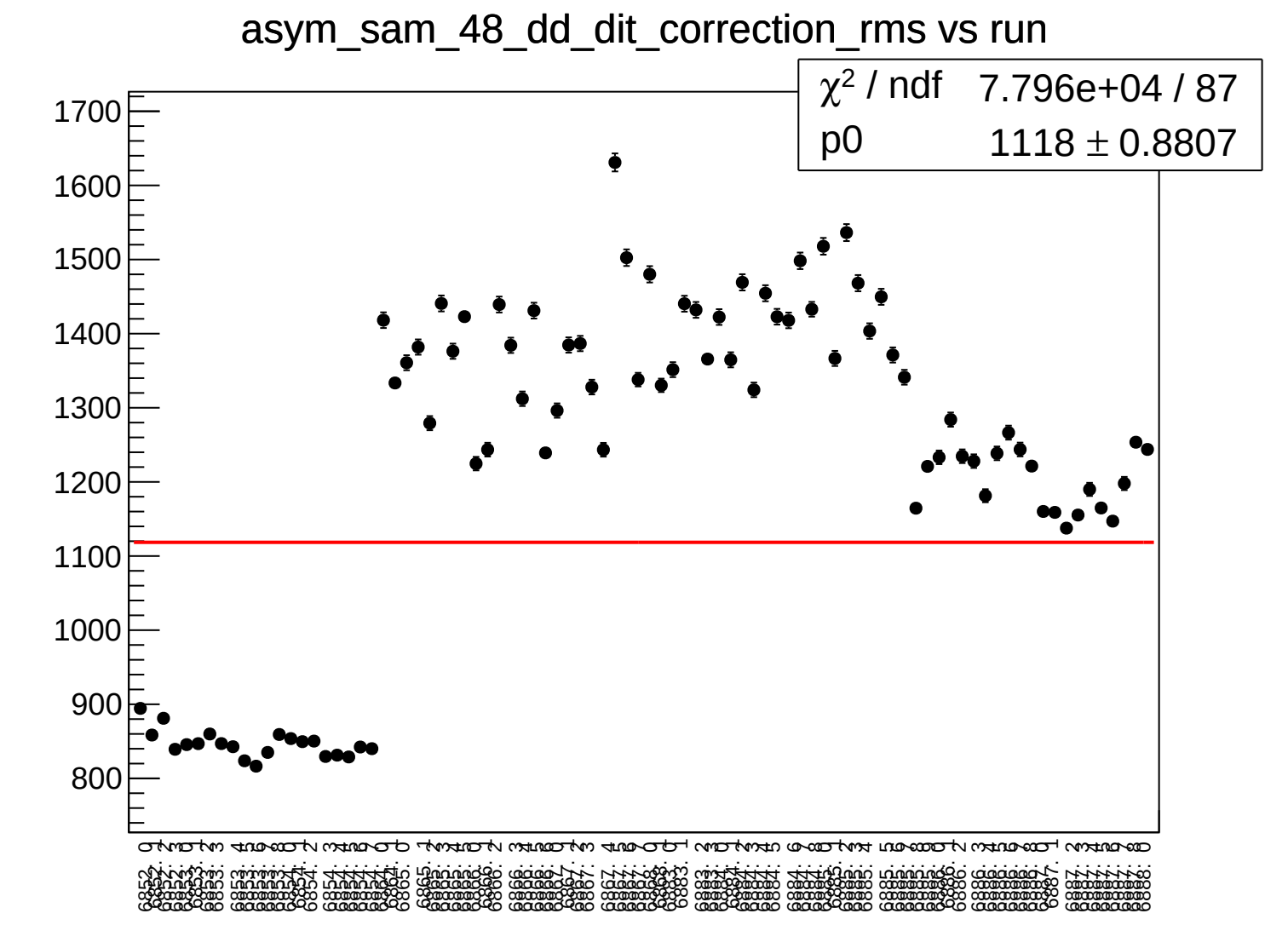

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.923e+04 / 87
p0 1128 ± 0.8887
1600
1400
1200
1000
800

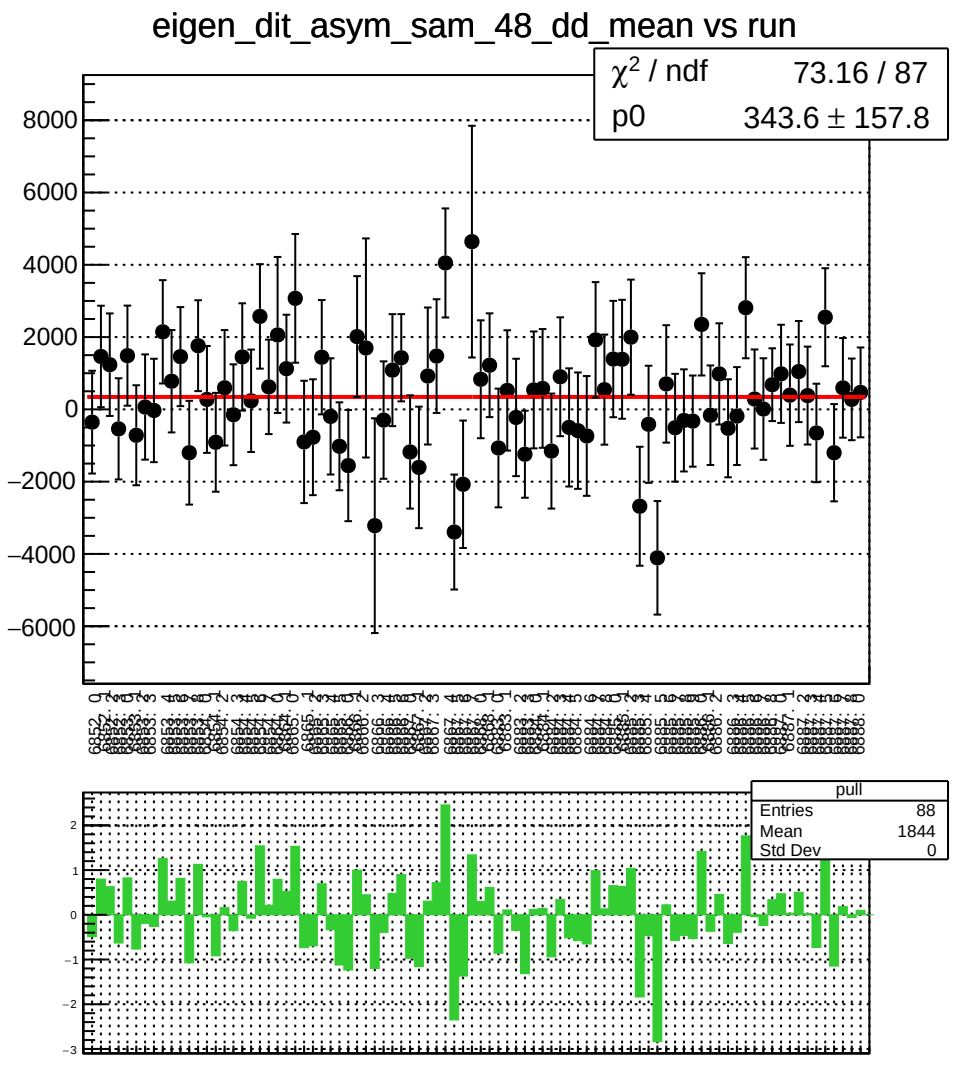

dit_asym_sam_48_dd_mean vs run
χ² / ndf 73.16 / 87
p0 343.6 ± 157.8
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 1844
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.0008187
Std Dev 0.9118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

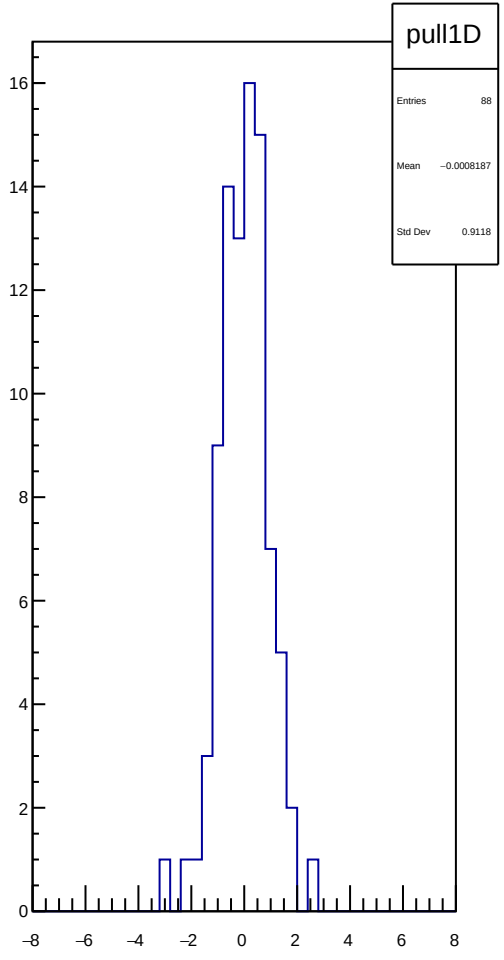

dit_asym_sam_48_dd_rms vs run
χ² / ndf 3.049e+04 / 87
p0 143.8 ± 0.1116
350
300
250
200
150

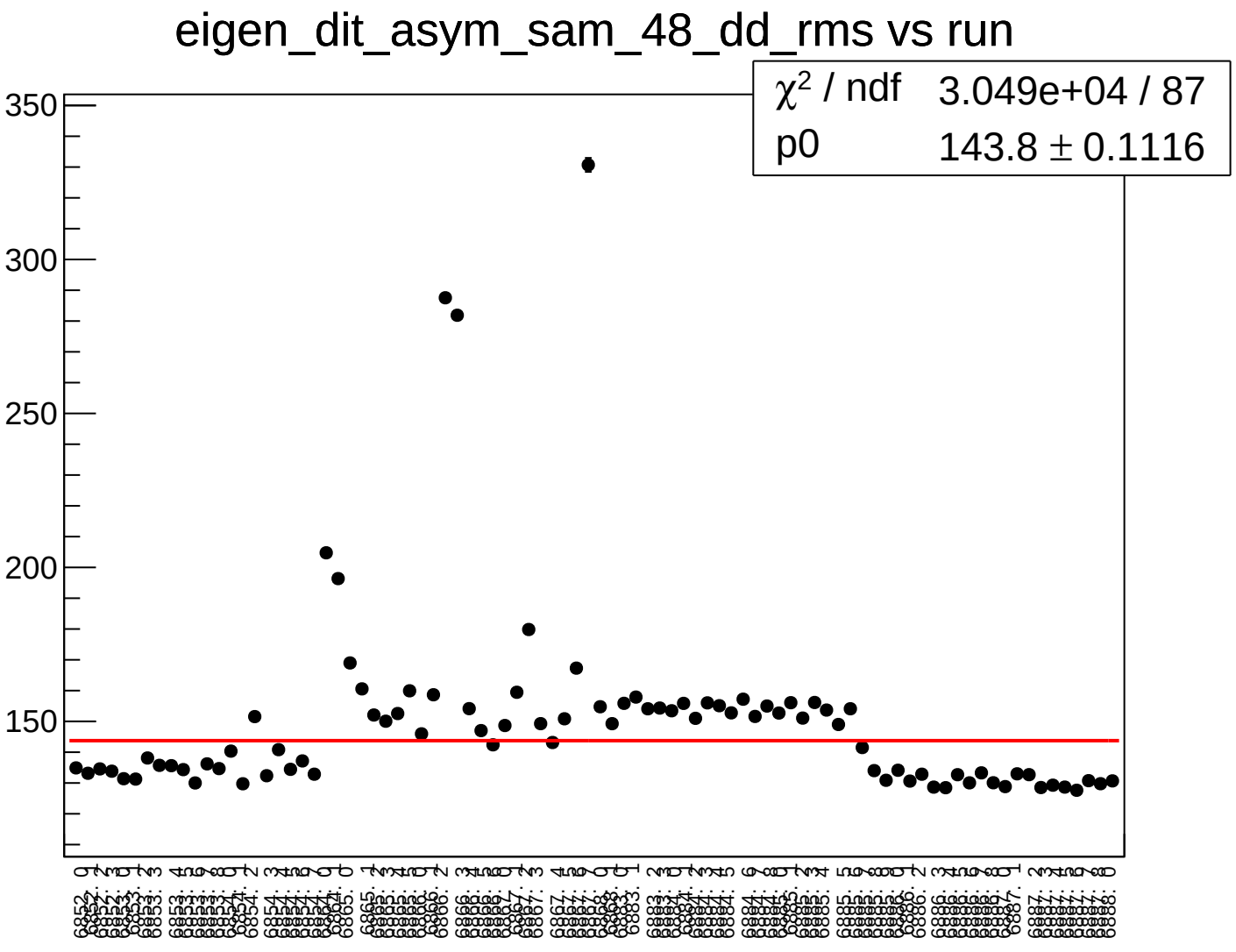

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 97.34 / 87
p0 −2614 ± 1246
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 157.1
Std Dev 0
2
1
0
−1
−2
−3

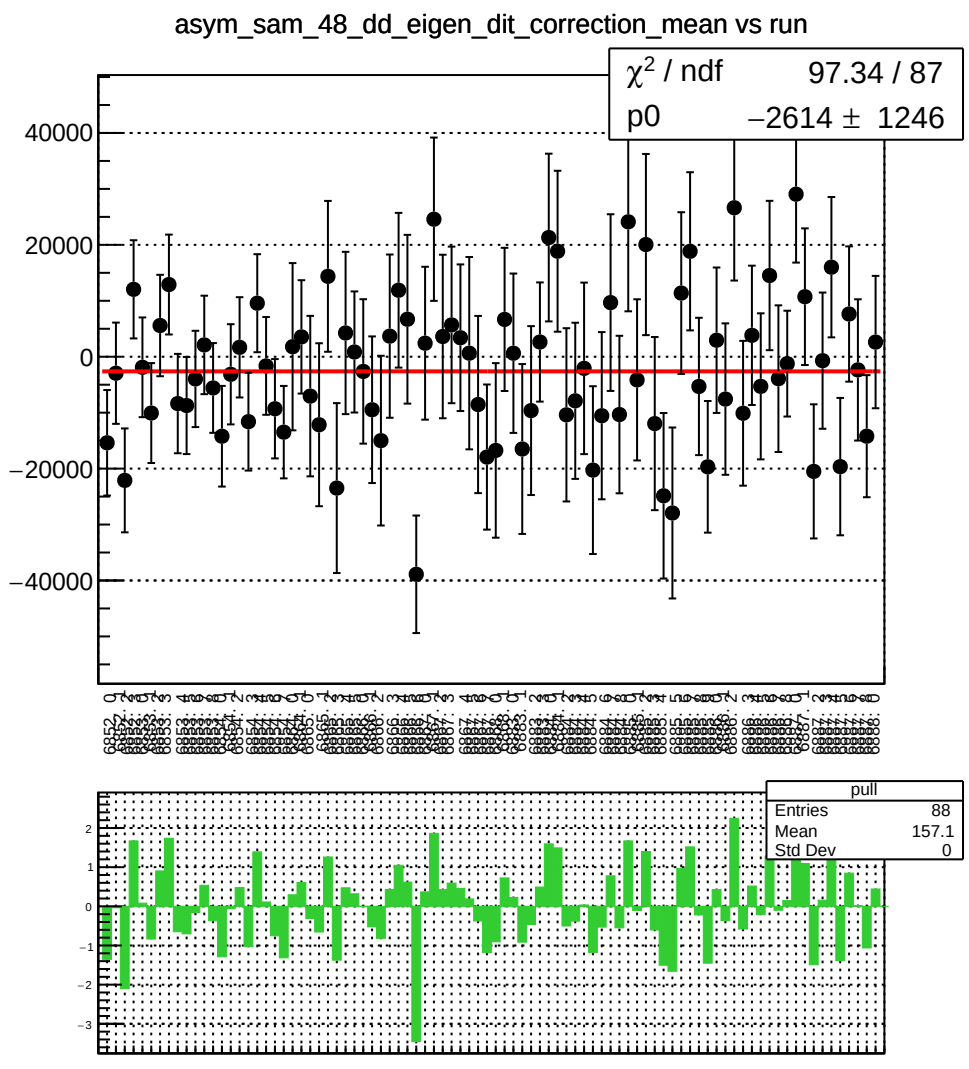

pull1D
Entries 88
Mean 0.02886
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

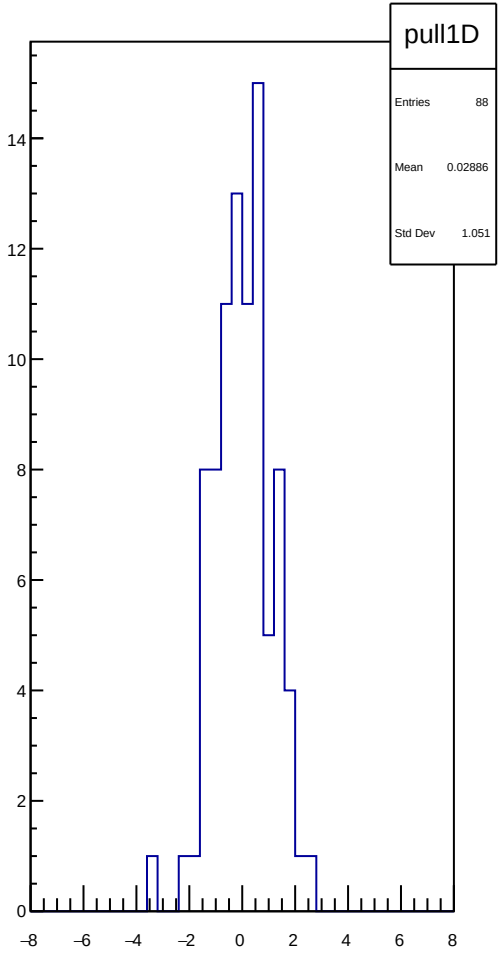

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 7.796e+04 / 87
p0 1118 ± 0.8807
1700
1600
1500
1400
1300
1200
1100
1000
900
800

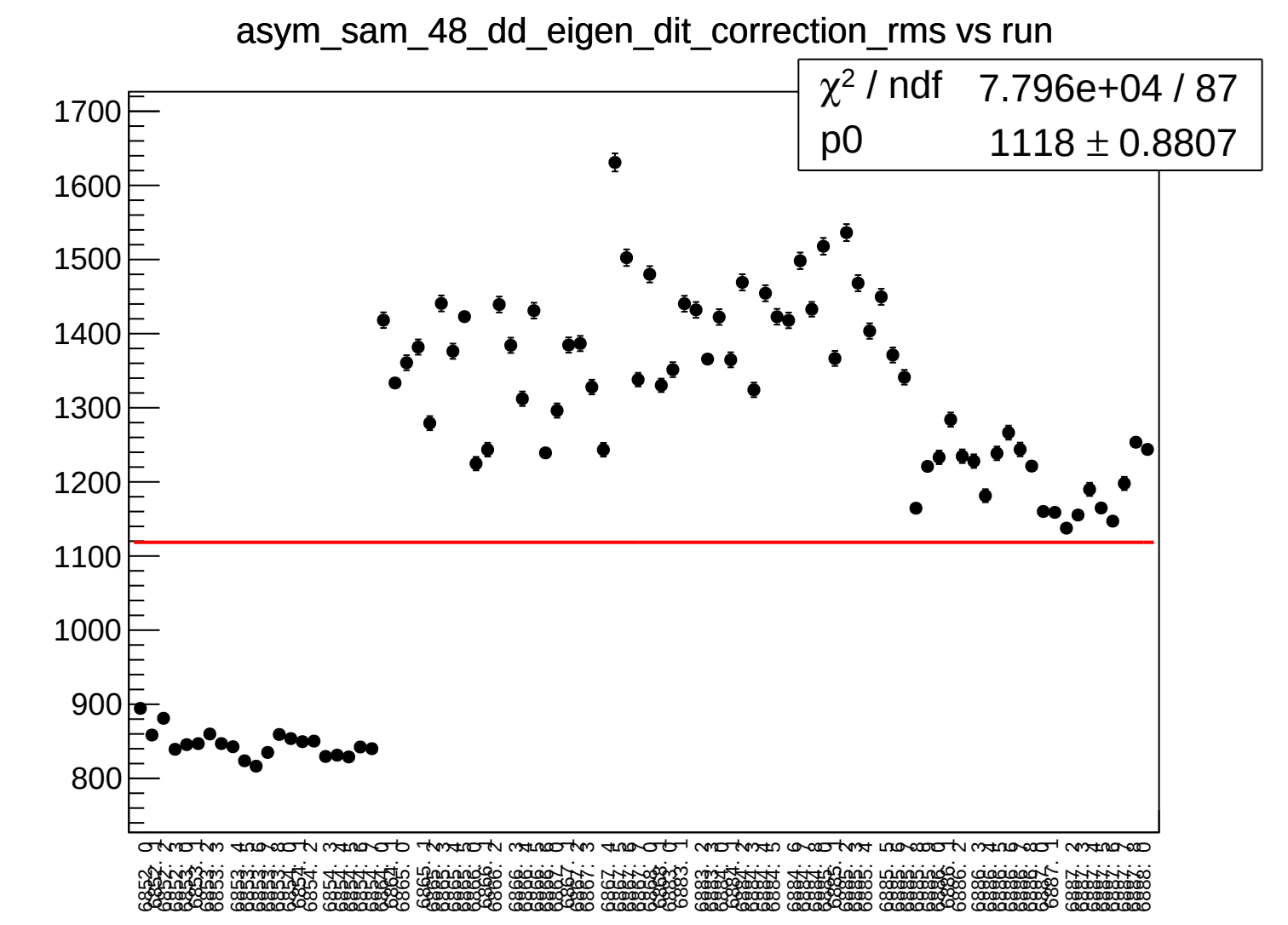

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 73.16 / 87
p0 343.6 ± 157.8
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 1844
Std Dev 0
2
1
0
−1
−2
−3

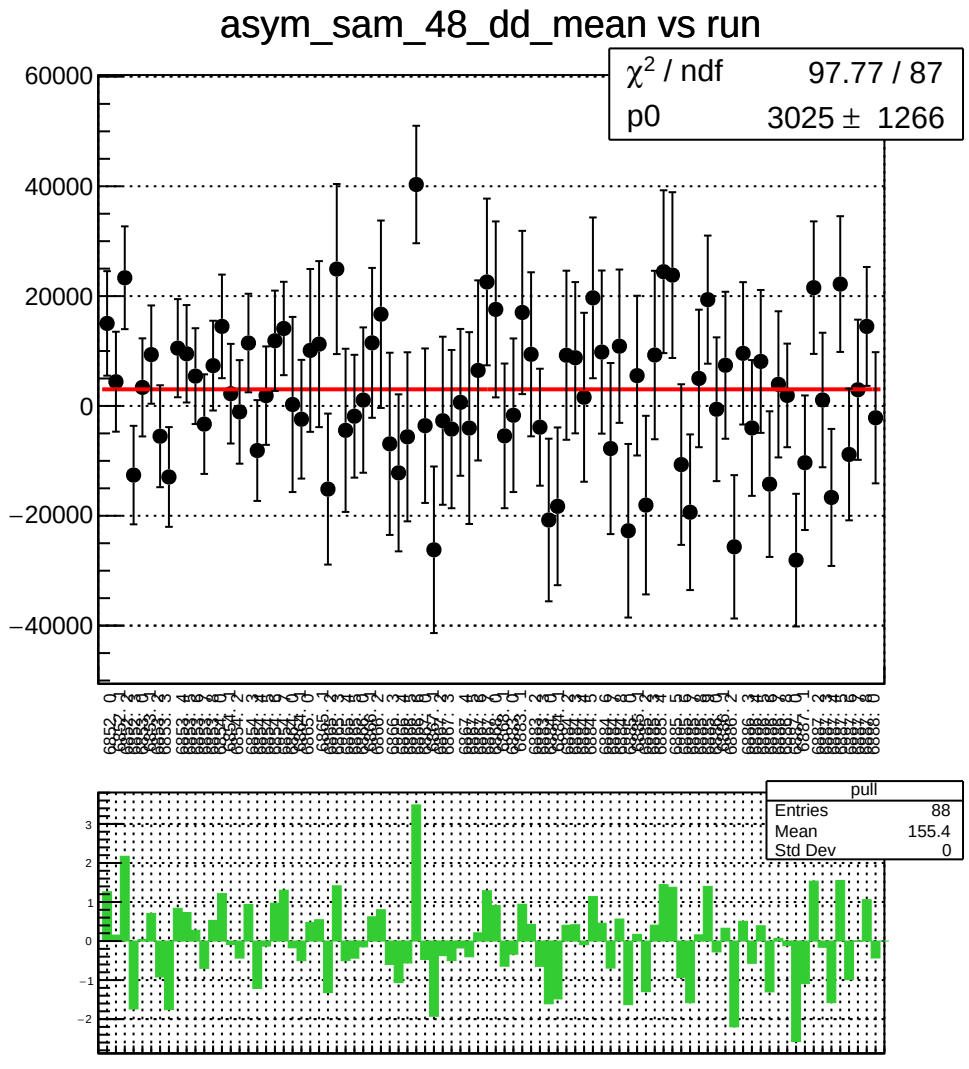

pull1D
Entries 88
Mean −0.0008187
Std Dev 0.9118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

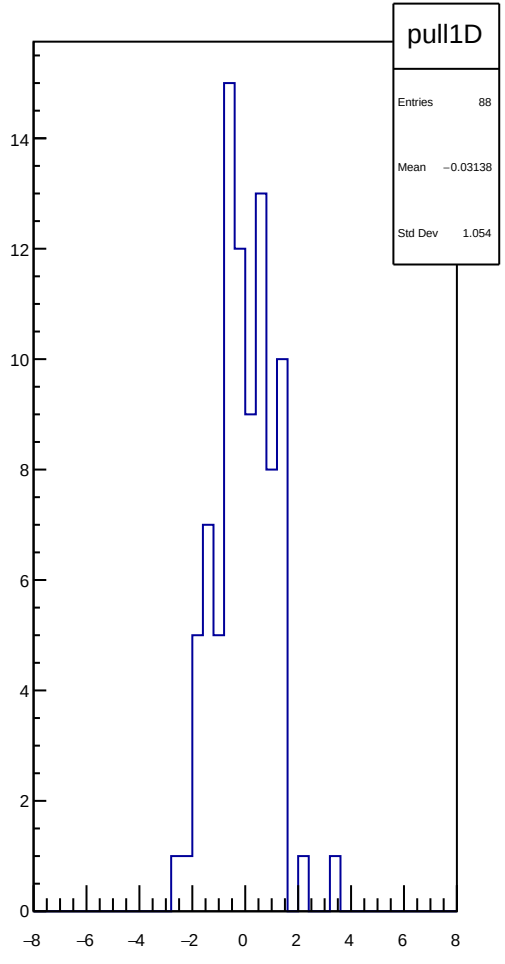

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 3.049e+04 / 87
p0 143.8 ± 0.1116
350
300
250
200
150

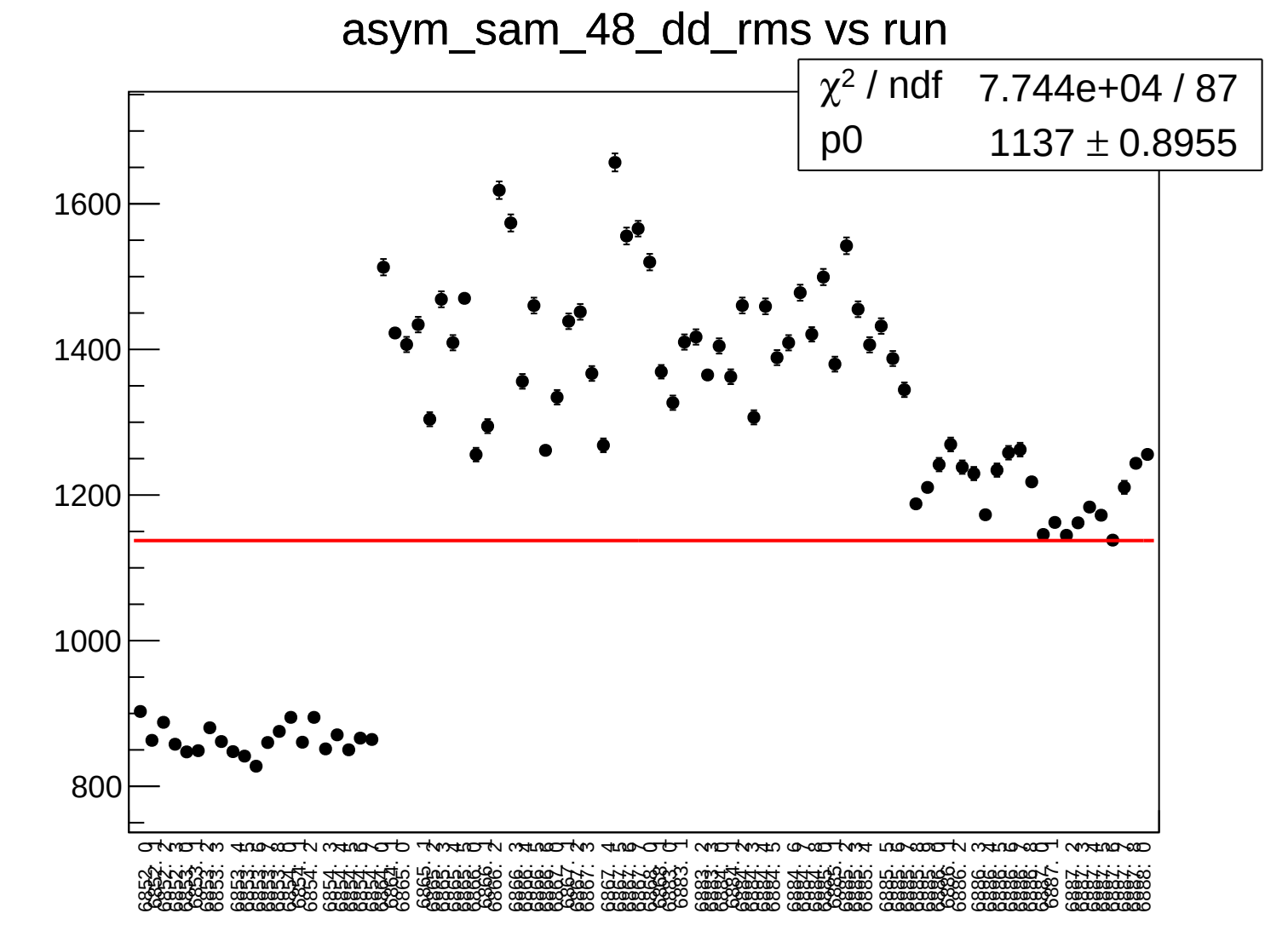

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.34 / 87
p0 −2614 ± 1246
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 157.1
Std Dev 0
2
1
0
−1
−2
−3

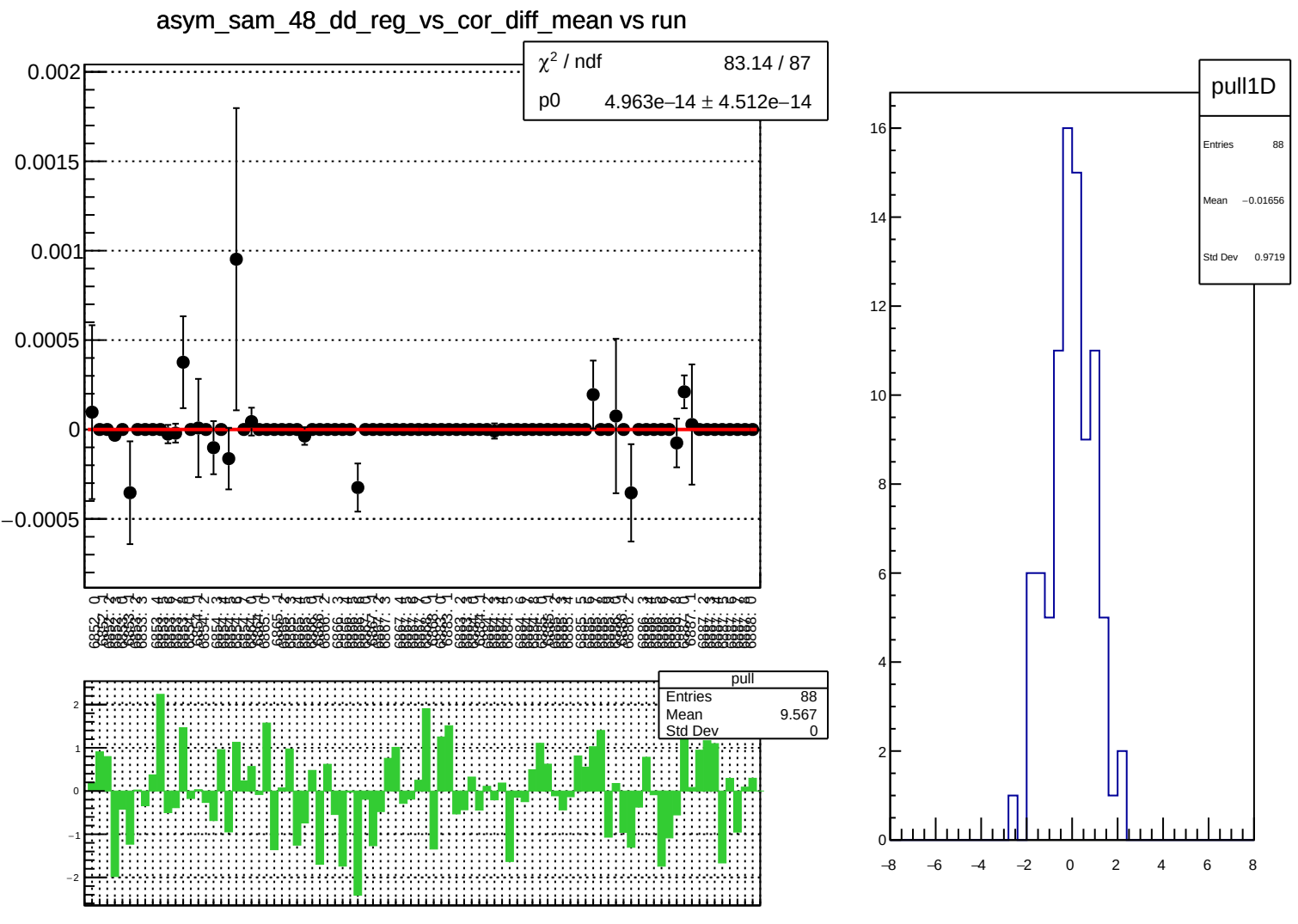

pull1D
Entries 88
Mean 0.02886
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

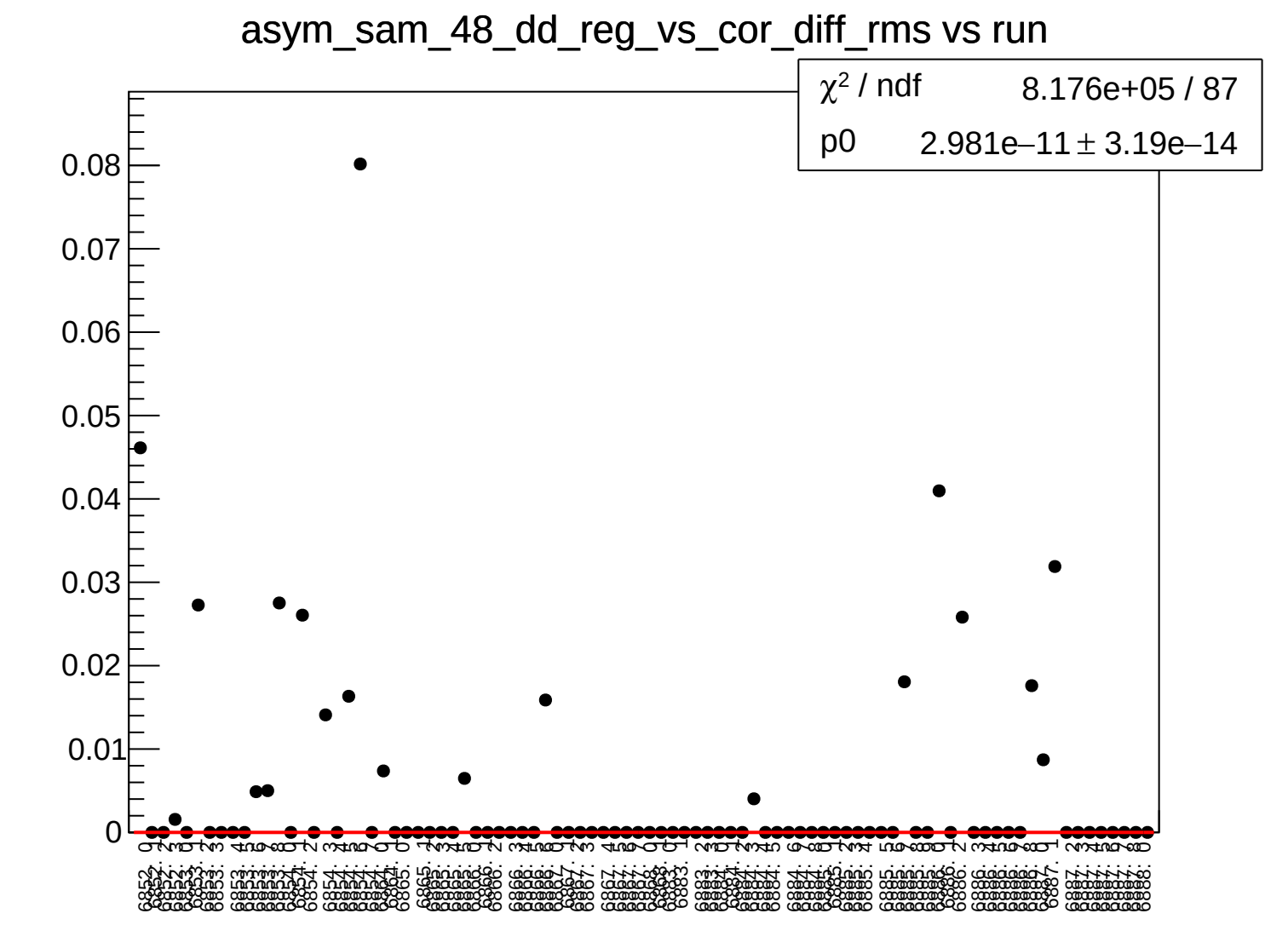

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 7.796e+04 / 87
p0 1118 ± 0.8807
1700
1600
1500
1400
1300
1200
1100
1000
900
800

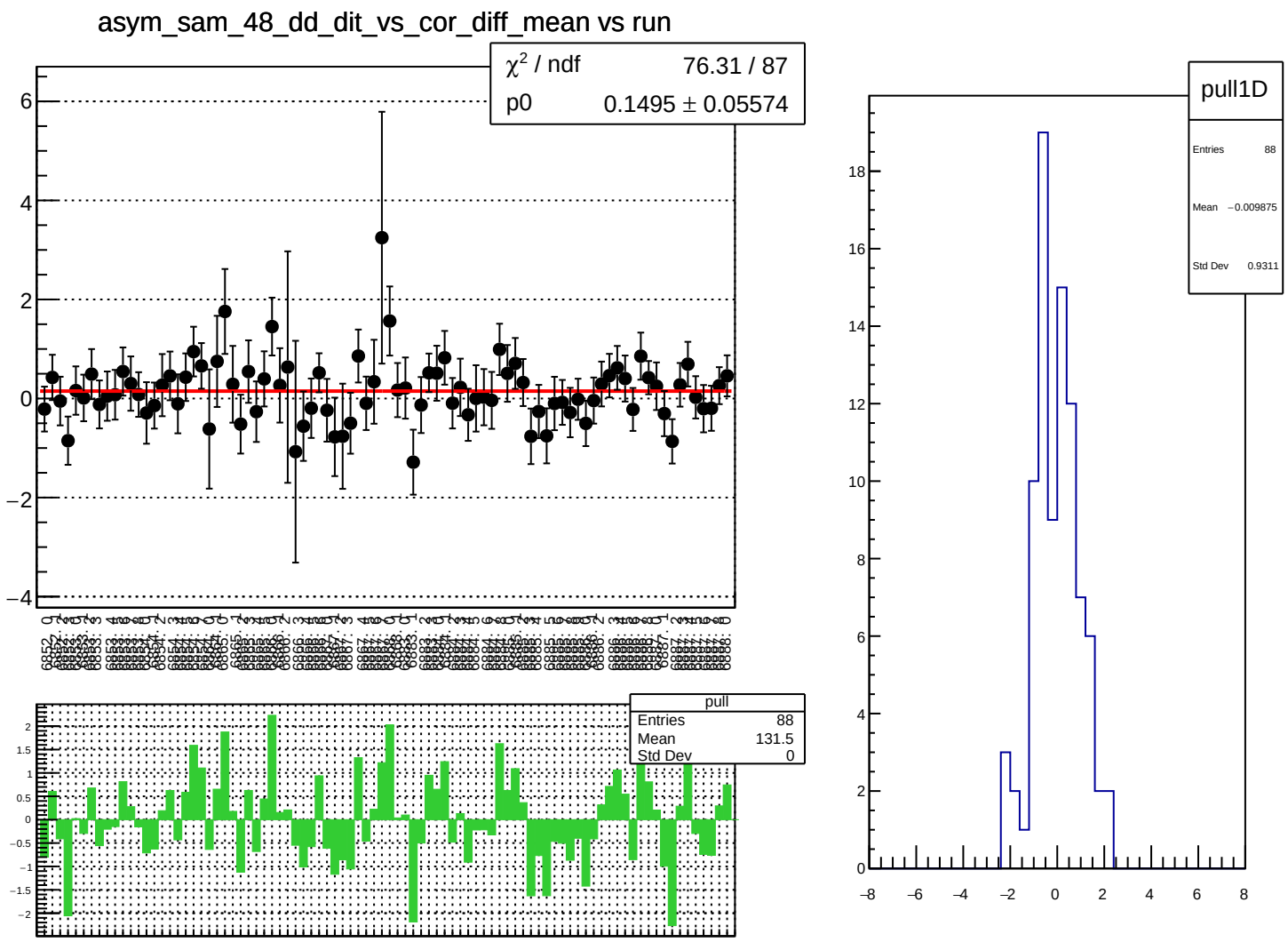

asym_sam_48_dd_mean vs run
χ² / ndf 97.77 / 87
p0 3025 ± 1266
60000
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 155.4
Std Dev 0
3
2
1
0
−1
−2

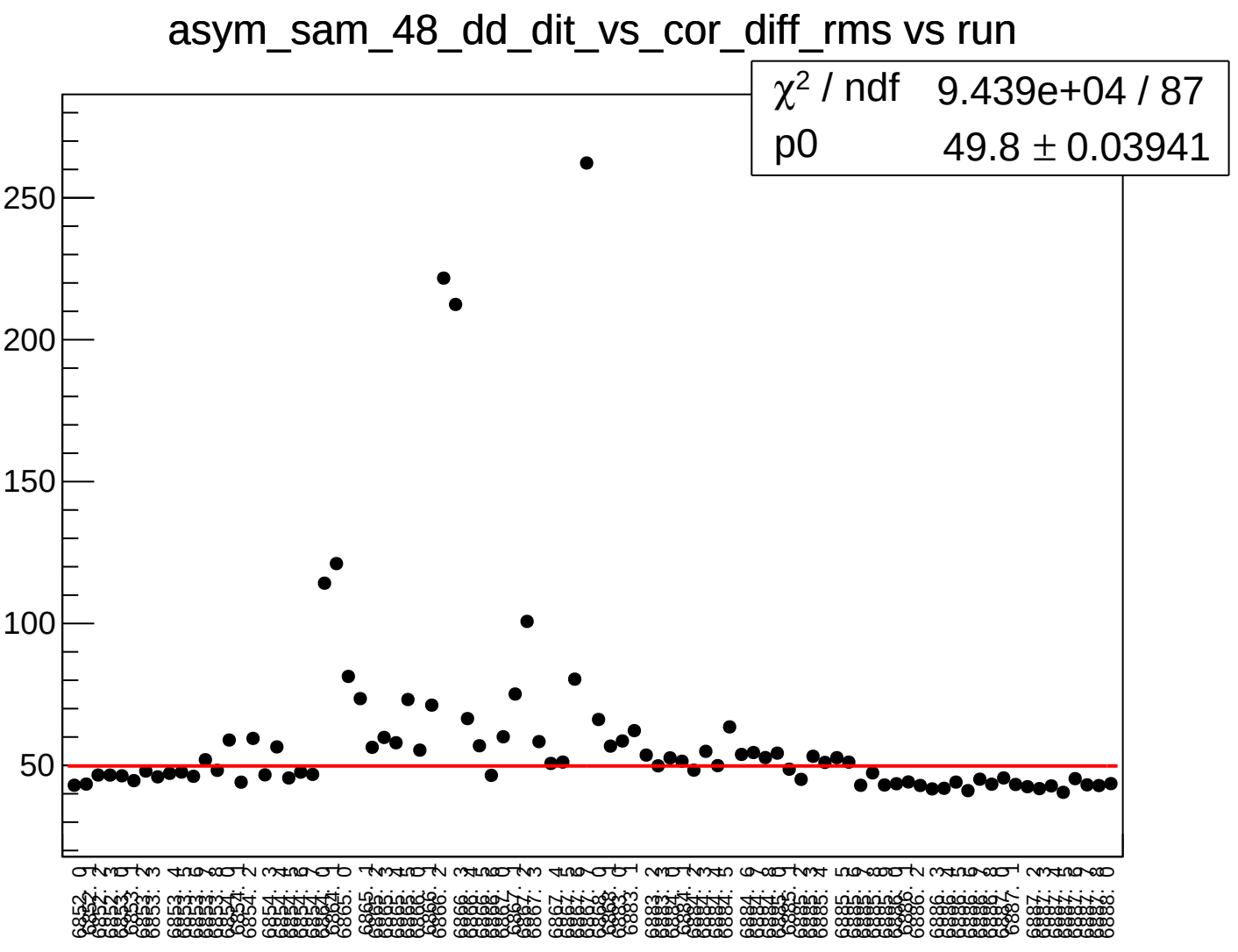

pull1D
Entries 88
Mean −0.03138
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

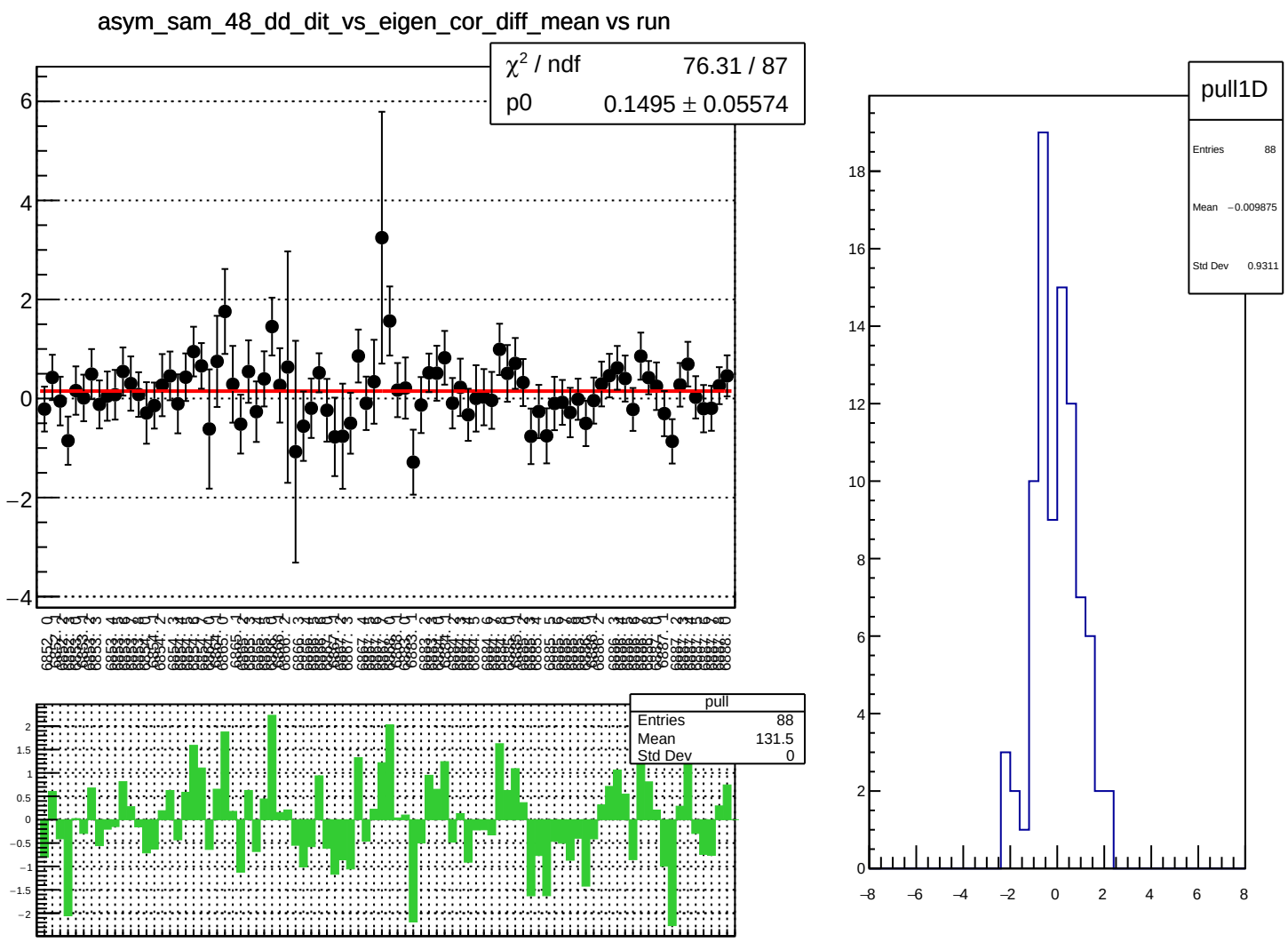

asym_sam_48_dd_rms vs run
χ² / ndf 7.744e+04 / 87
p0 1137 ± 0.8955
1600
1400
1200
1000
800

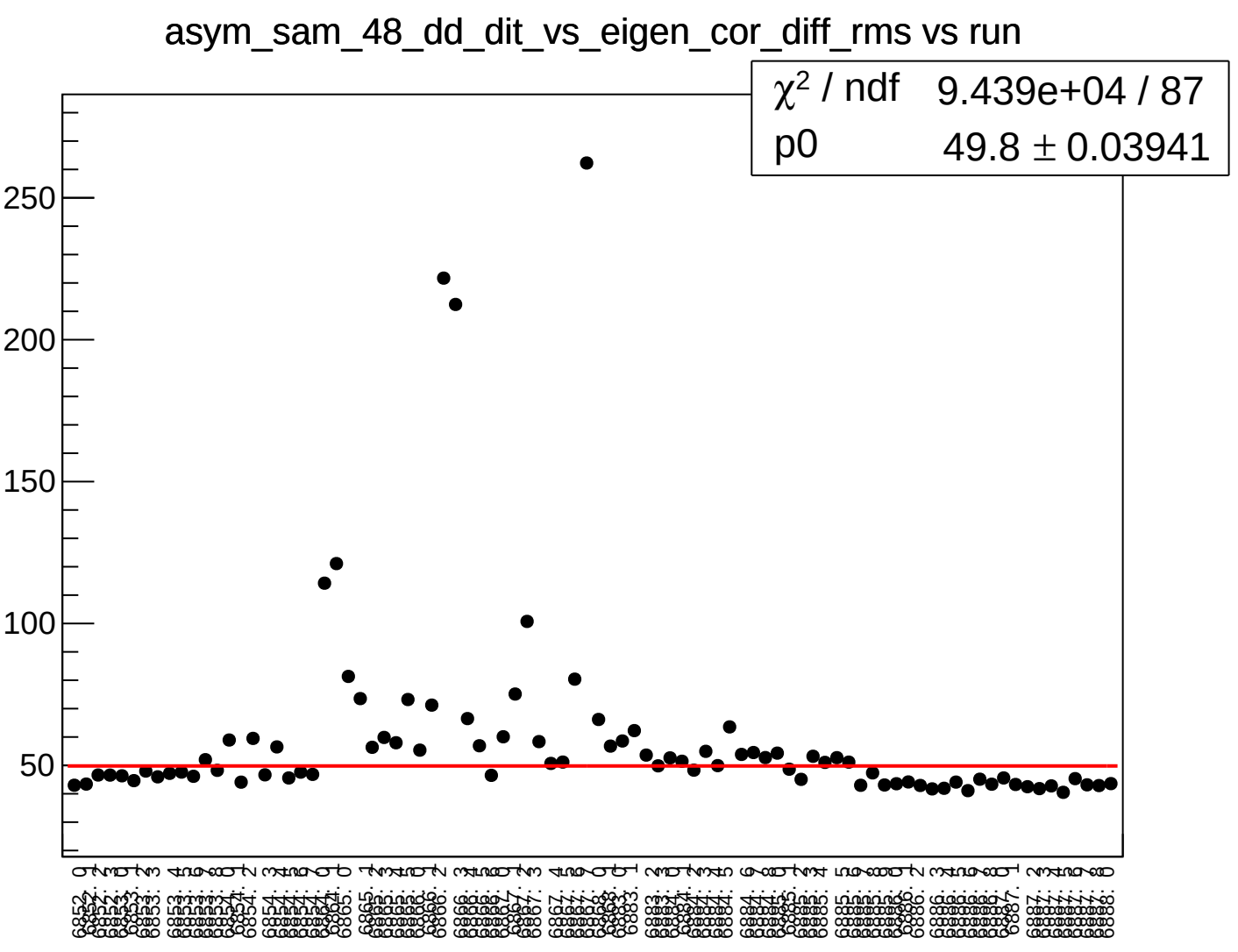

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.14 / 87
p0 4.963e−14 ± 4.512e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 88
Mean 9.567
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01656
Std Dev 0.9719
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

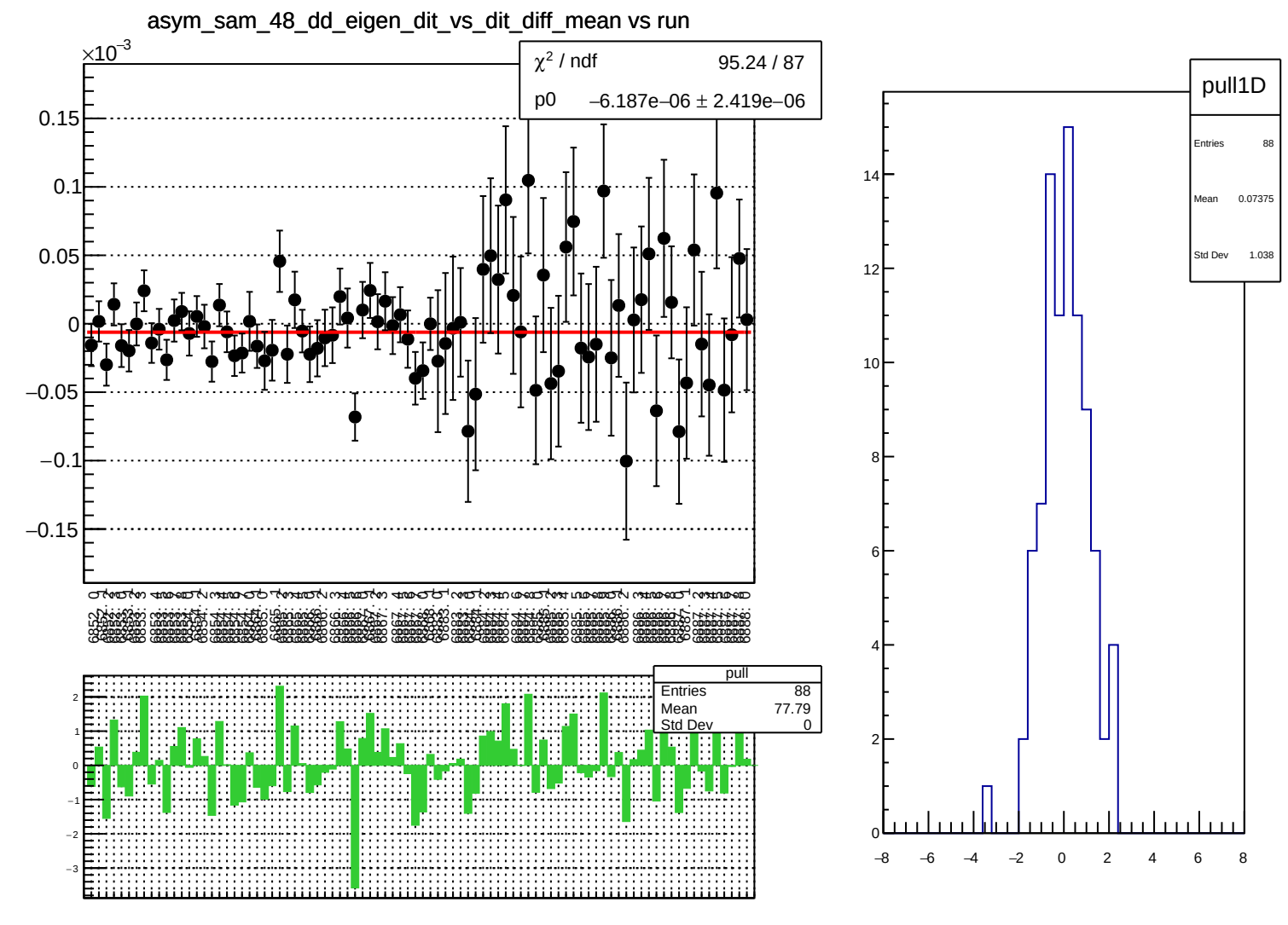

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.176e+05 / 87
p0 2.981e−11 ± 3.19e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

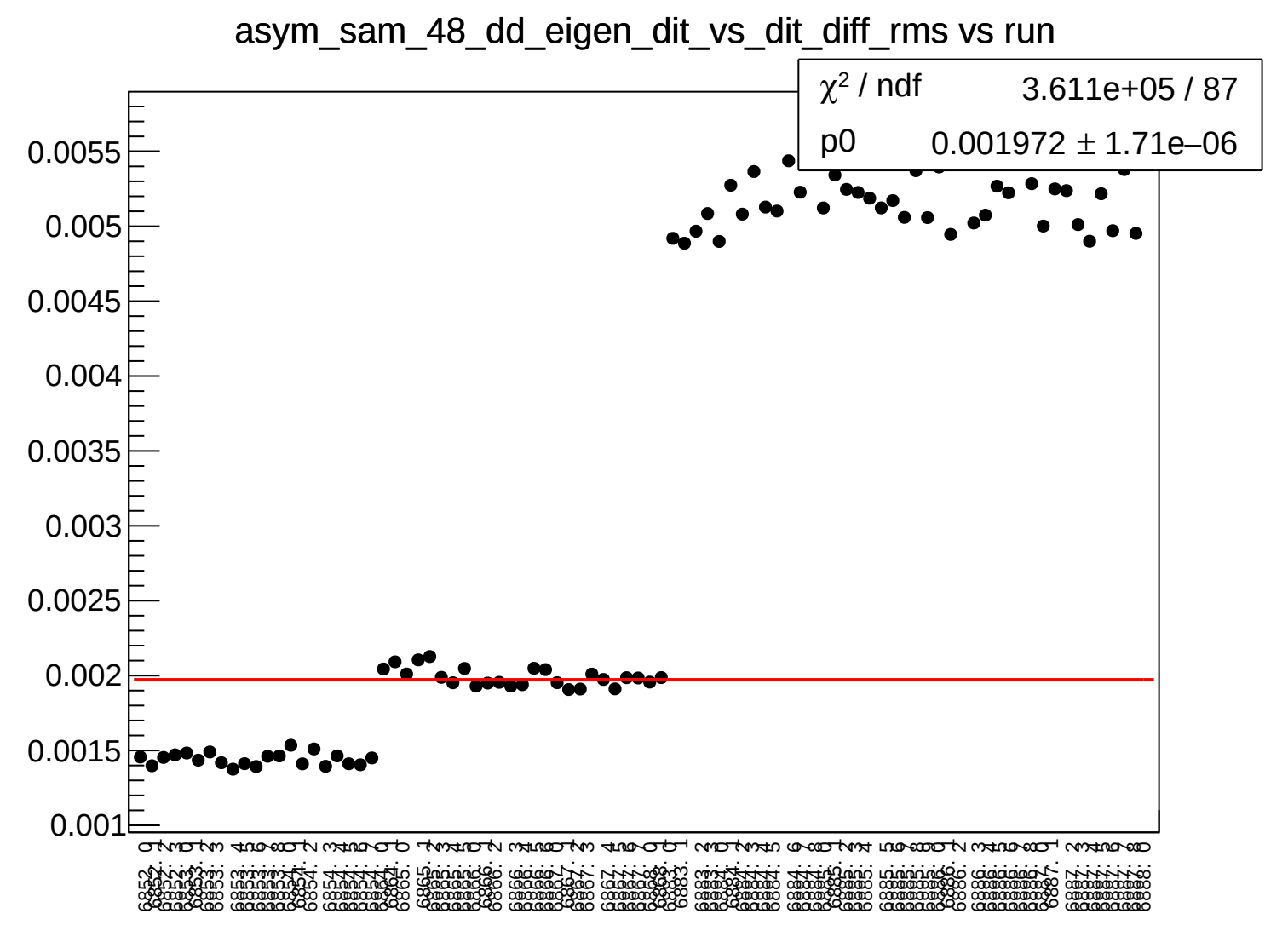

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.31 / 87
p0 0.1495 ± 0.05574
pull
Entries 88
Mean 131.5
Std Dev 0
pull1D
Entries 88
Mean −0.009875
Std Dev 0.9311

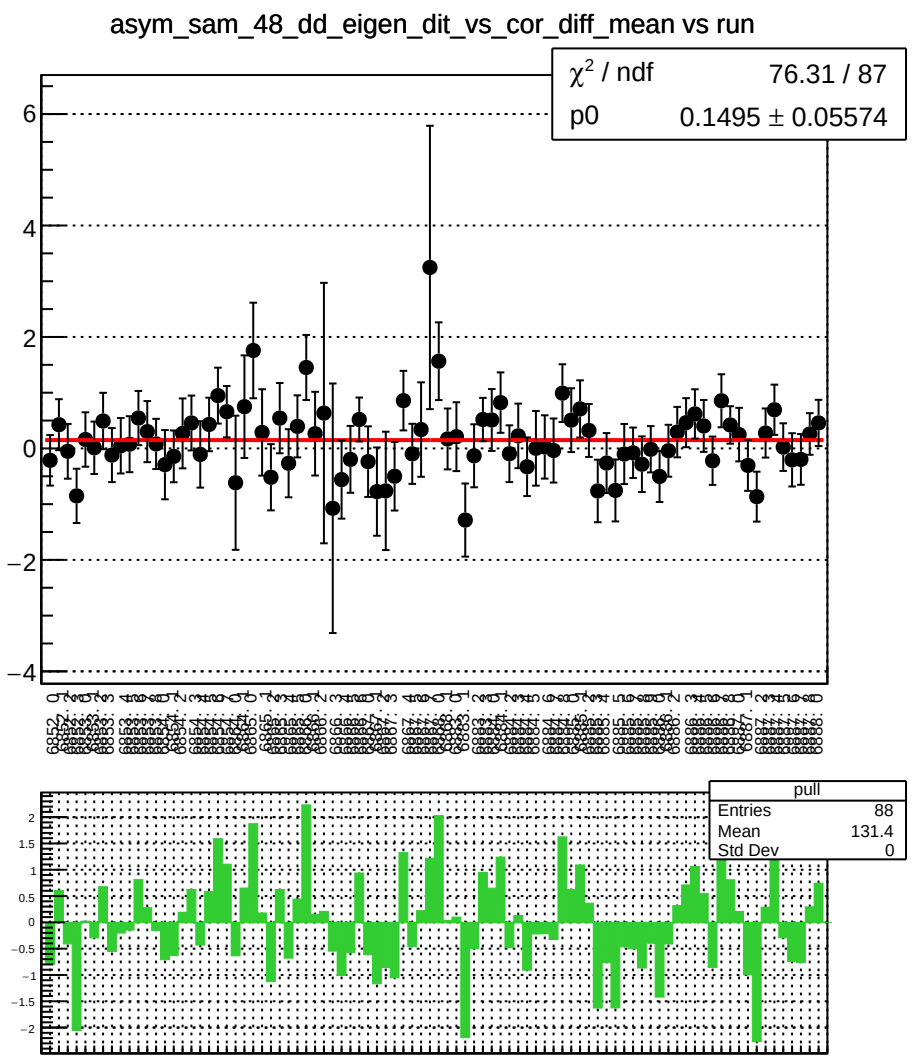

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.439e+04 / 87
p0 49.8 ± 0.03941
250
200
150
100
50

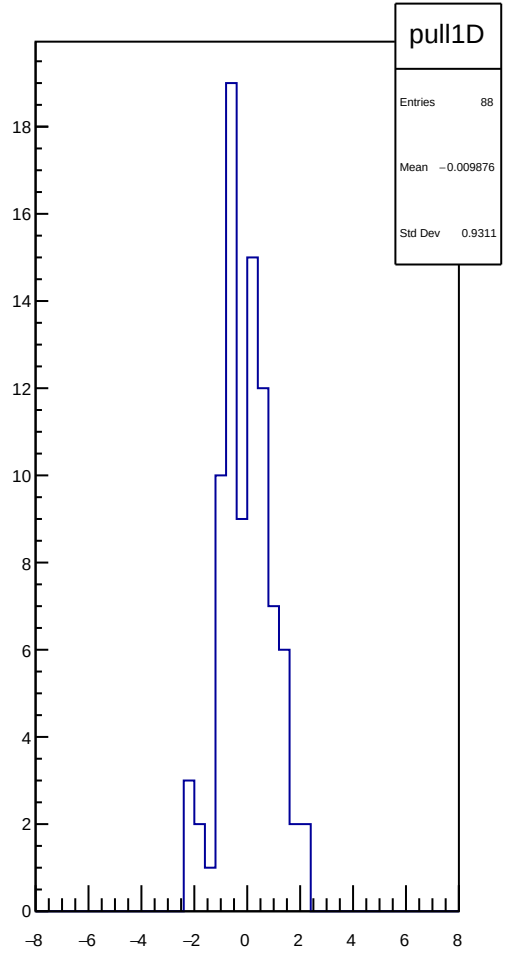

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.31 / 87
p0 0.1495 ± 0.05574
pull
Entries 88
Mean 131.5
Std Dev 0
pull1D
Entries 88
Mean −0.009875
Std Dev 0.9311

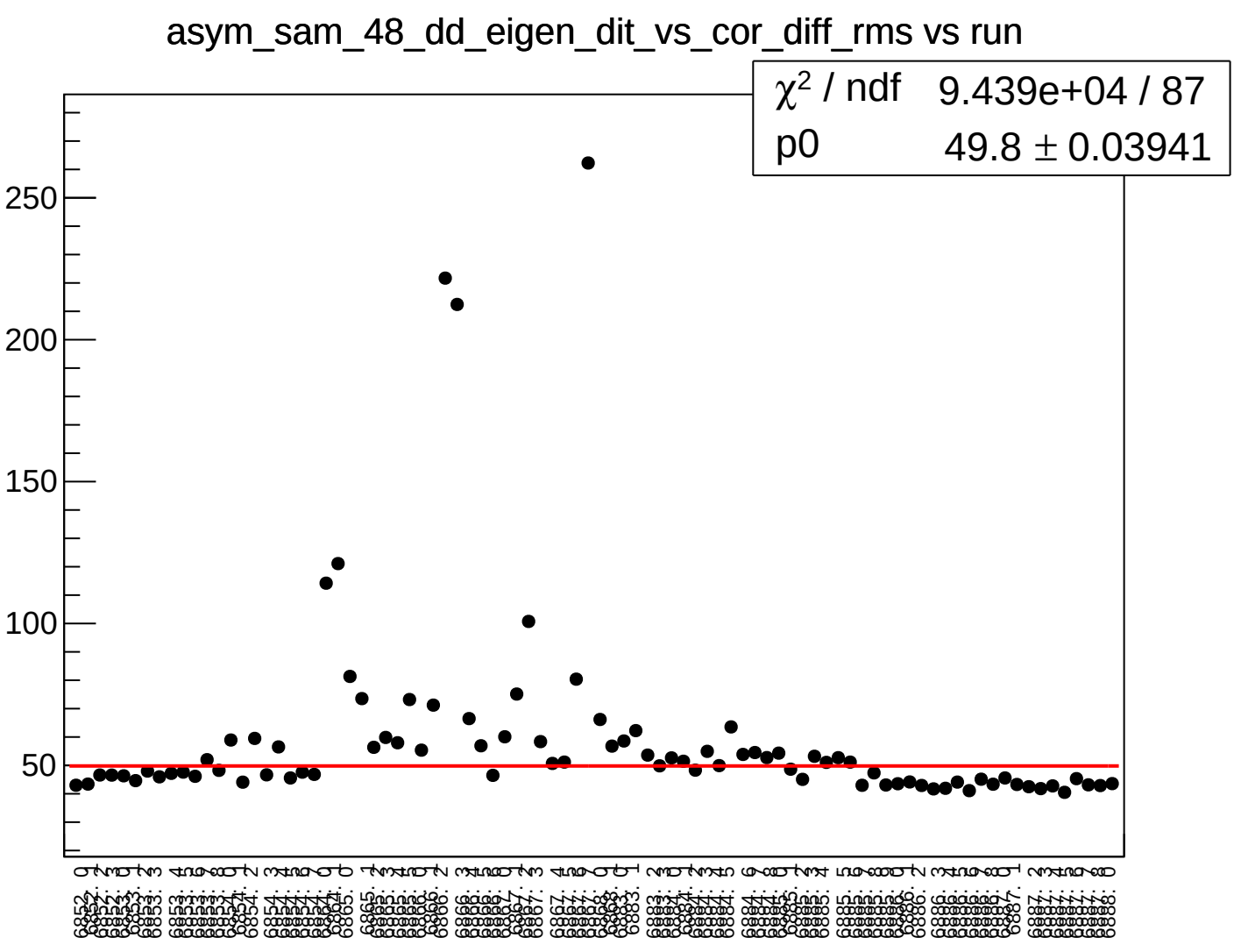

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.439e+04 / 87
p0 49.8 ± 0.03941
250
200
150
100
50

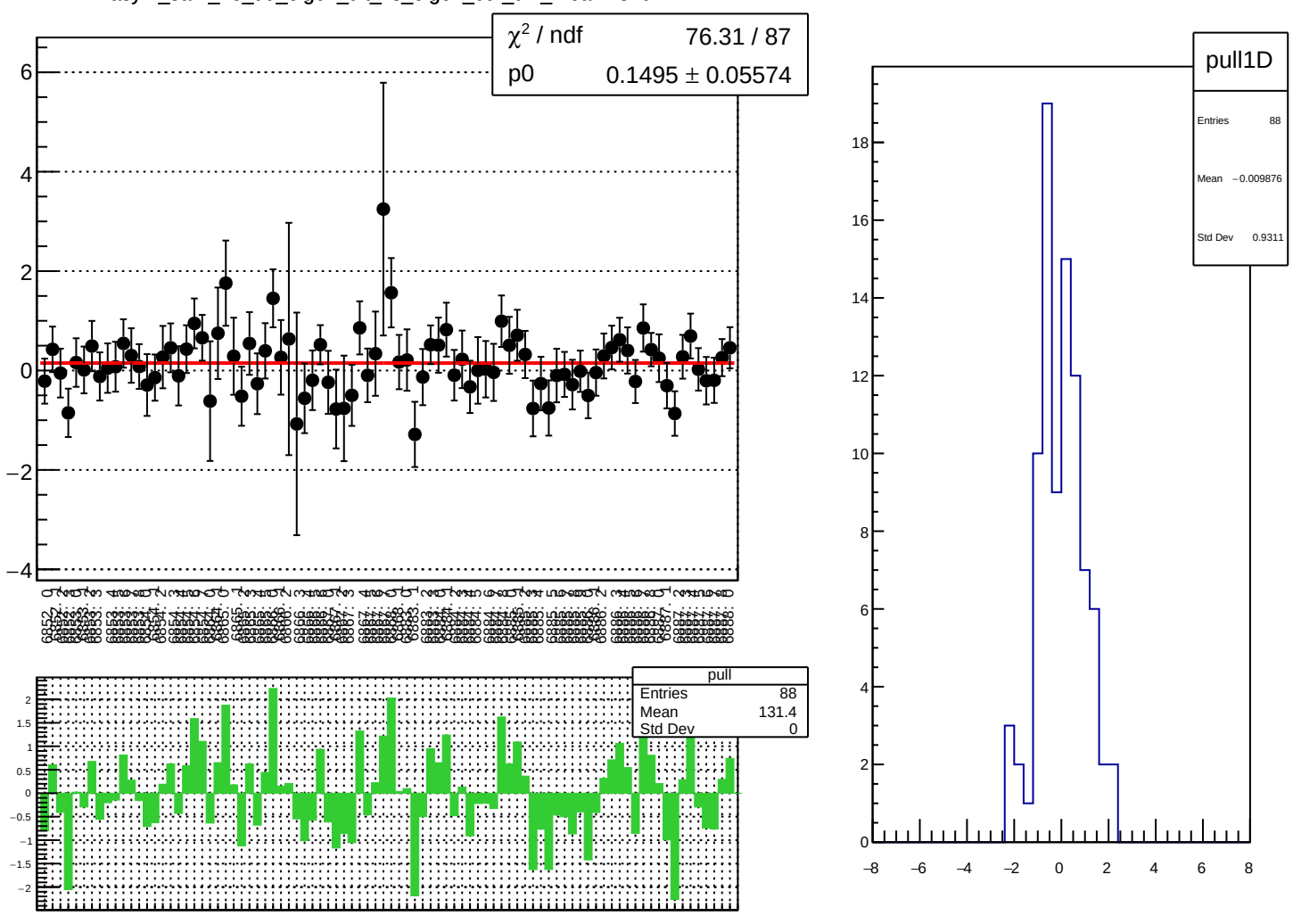

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.24 / 87
p0 −6.187e−06 ± 2.419e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 77.79
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.07375
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

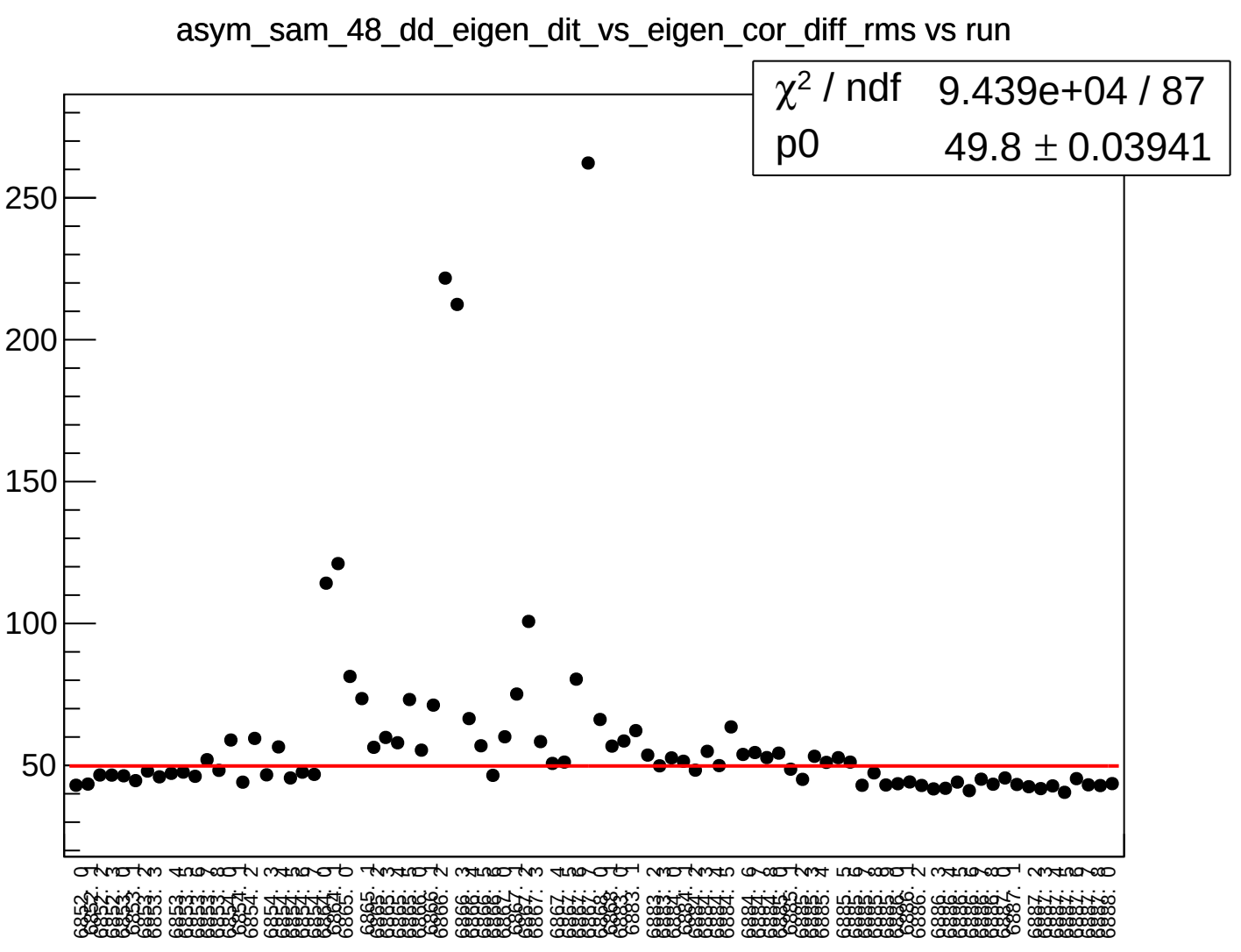

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.611e+05 / 87
p0 0.001972 ± 1.71e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

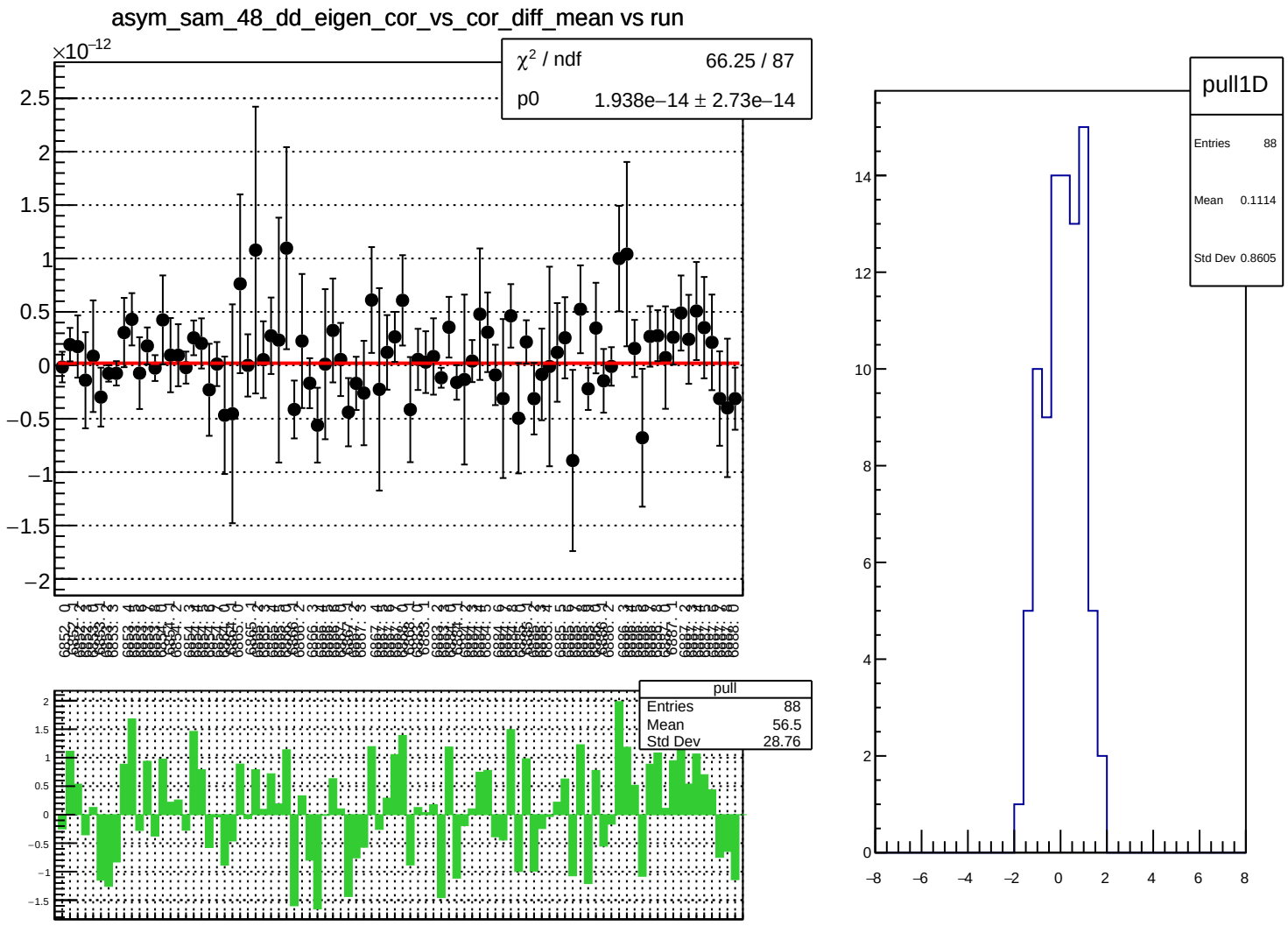

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.31 / 87
p0 0.1495 ± 0.05574
pull
Entries 88
Mean 131.4
Std Dev 0

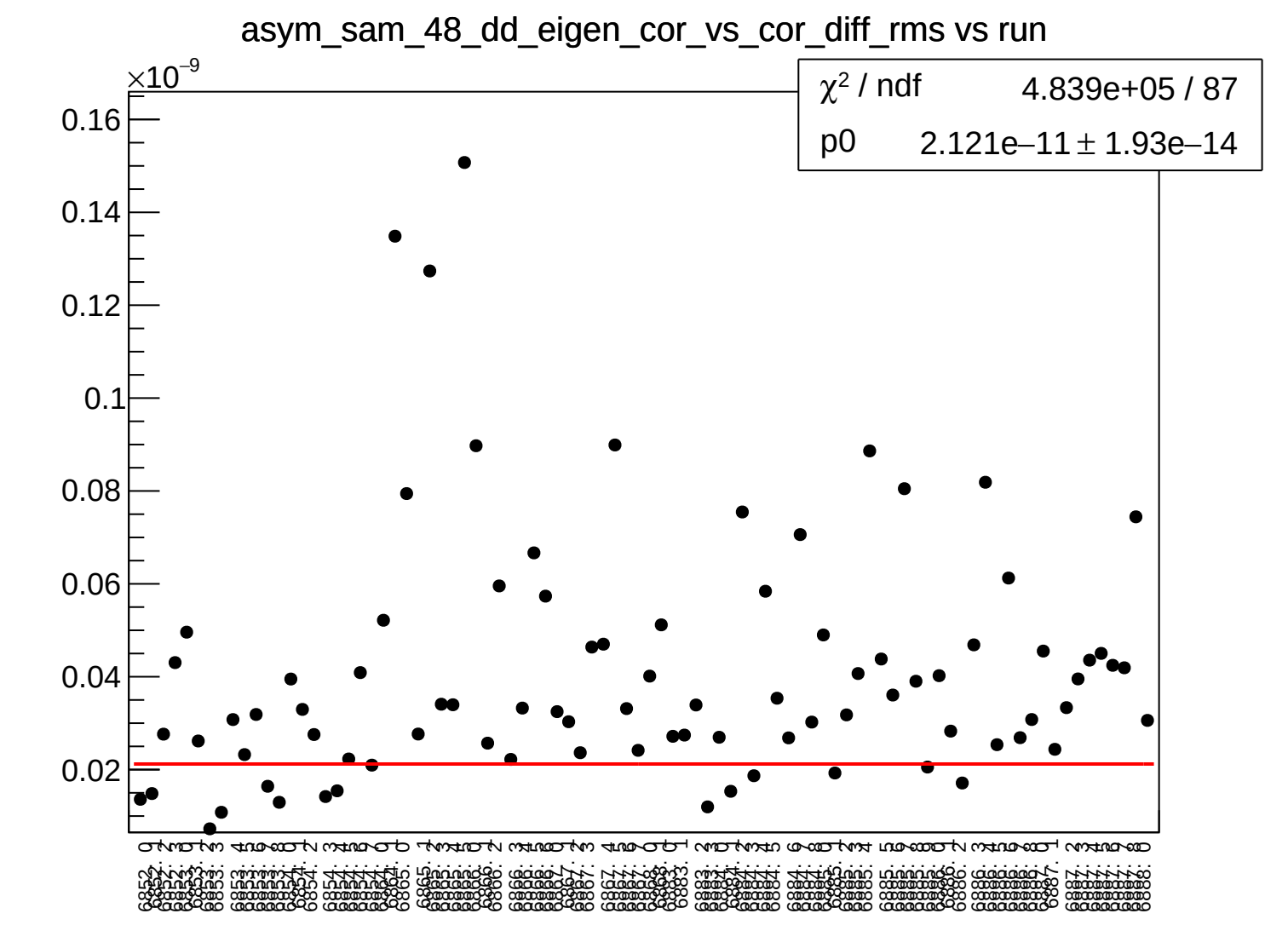

pull1D
Entries 88
Mean −0.009876
Std Dev 0.9311

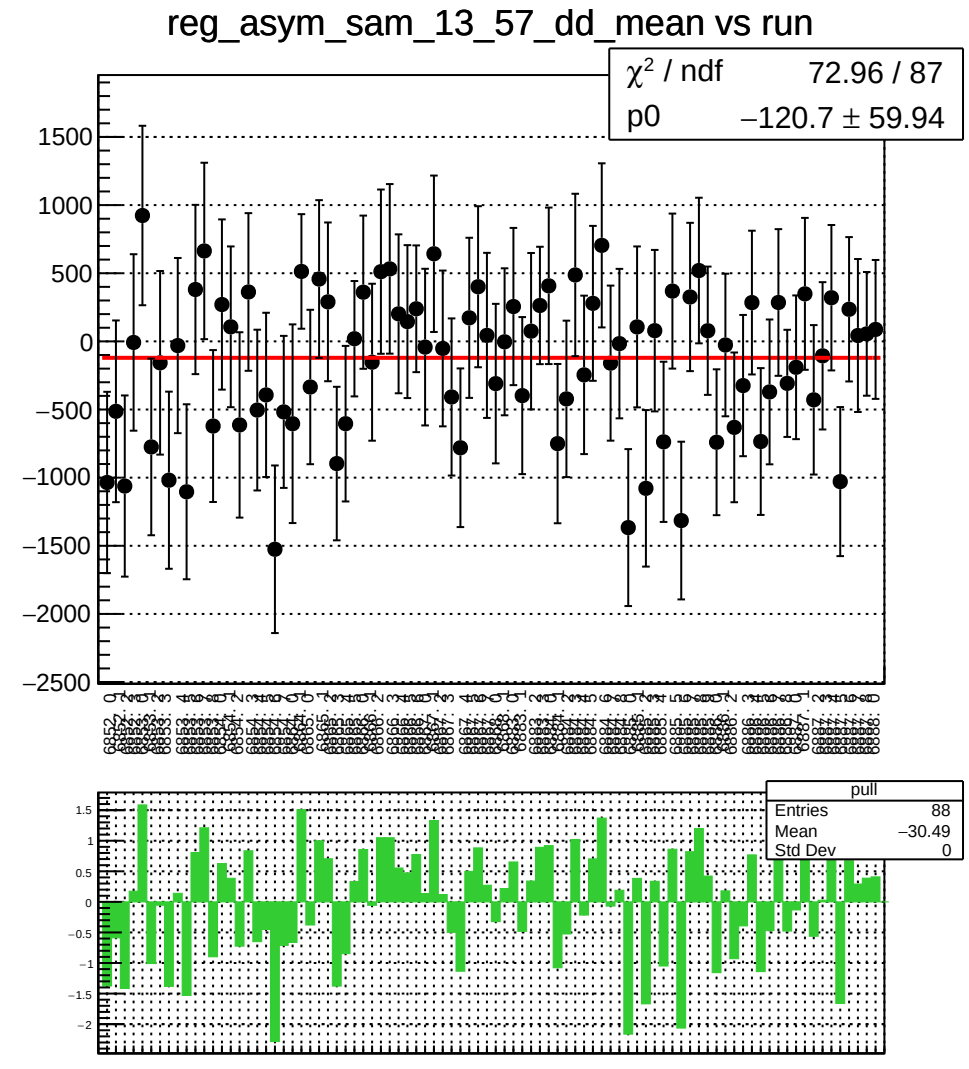

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.439e+04 / 87
p0 49.8 ± 0.03941
250
200
150
100
50

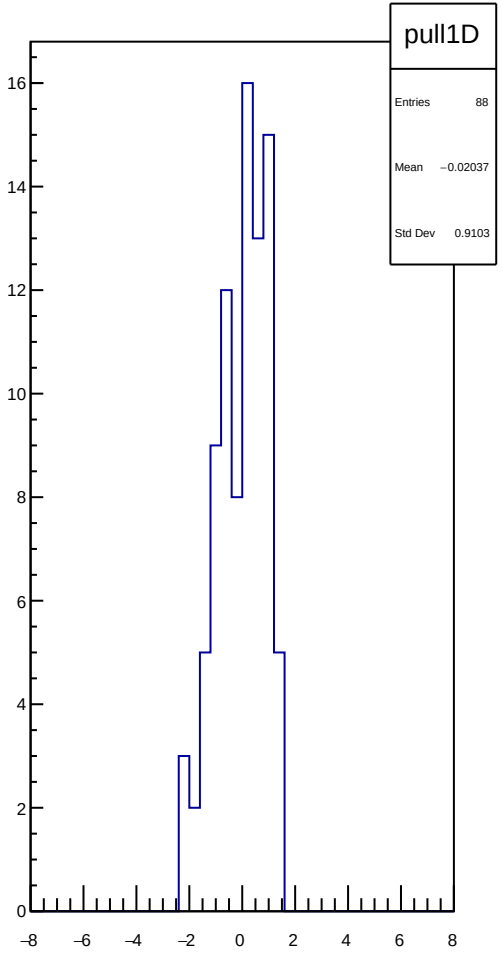

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.31 / 87
p0 0.1495 ± 0.05574
pull
Entries 88
Mean 131.4
Std Dev 0
pull1D
Entries 88
Mean −0.009876
Std Dev 0.9311

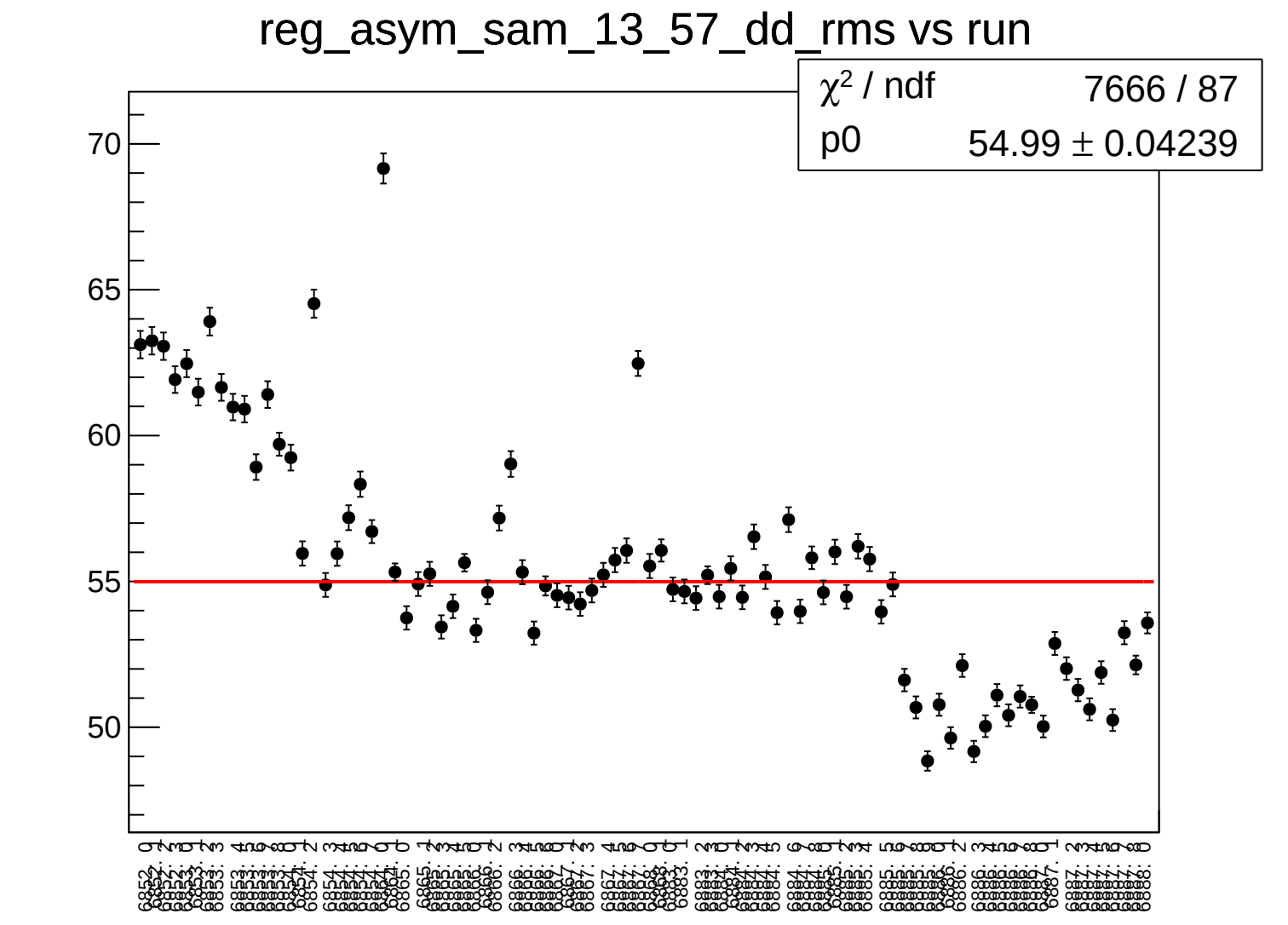

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.439e+04 / 87
p0 49.8 ± 0.03941
250
200
150
100
50

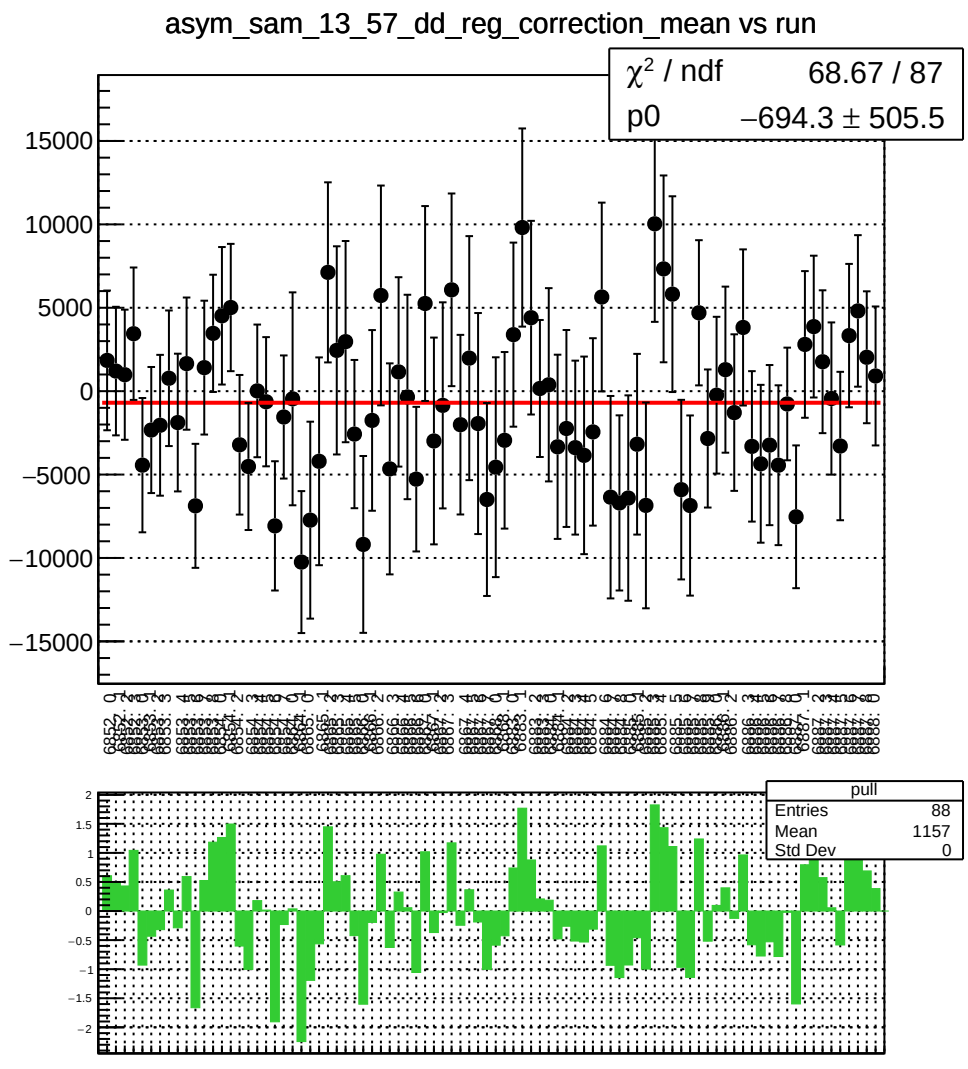

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 66.25 / 87
p0 1.938e−14 ± 2.73e−14
pull
Entries 88
Mean 56.5
Std Dev 28.76
pull1D
Entries 88
Mean 0.1114
Std Dev 0.8605

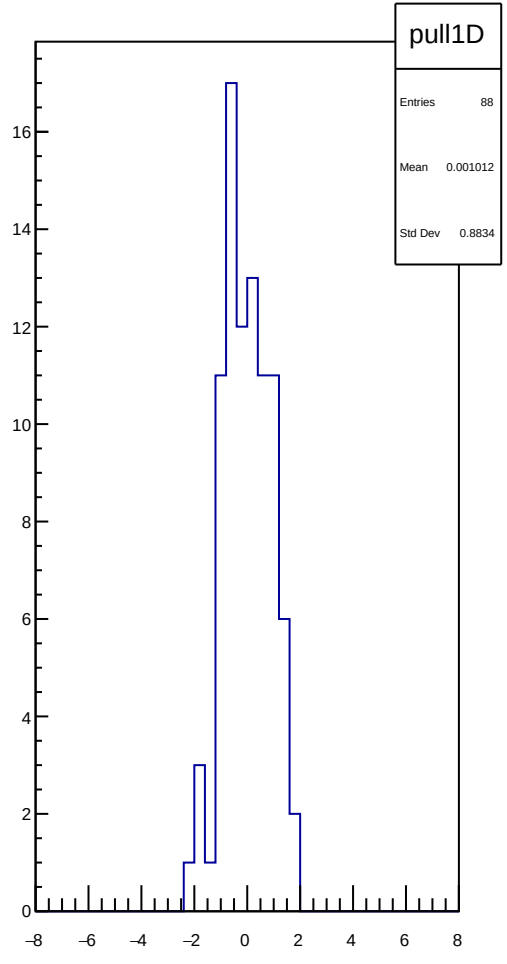

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.839e+05 / 87
p0 2.121e−11 ± 1.93e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

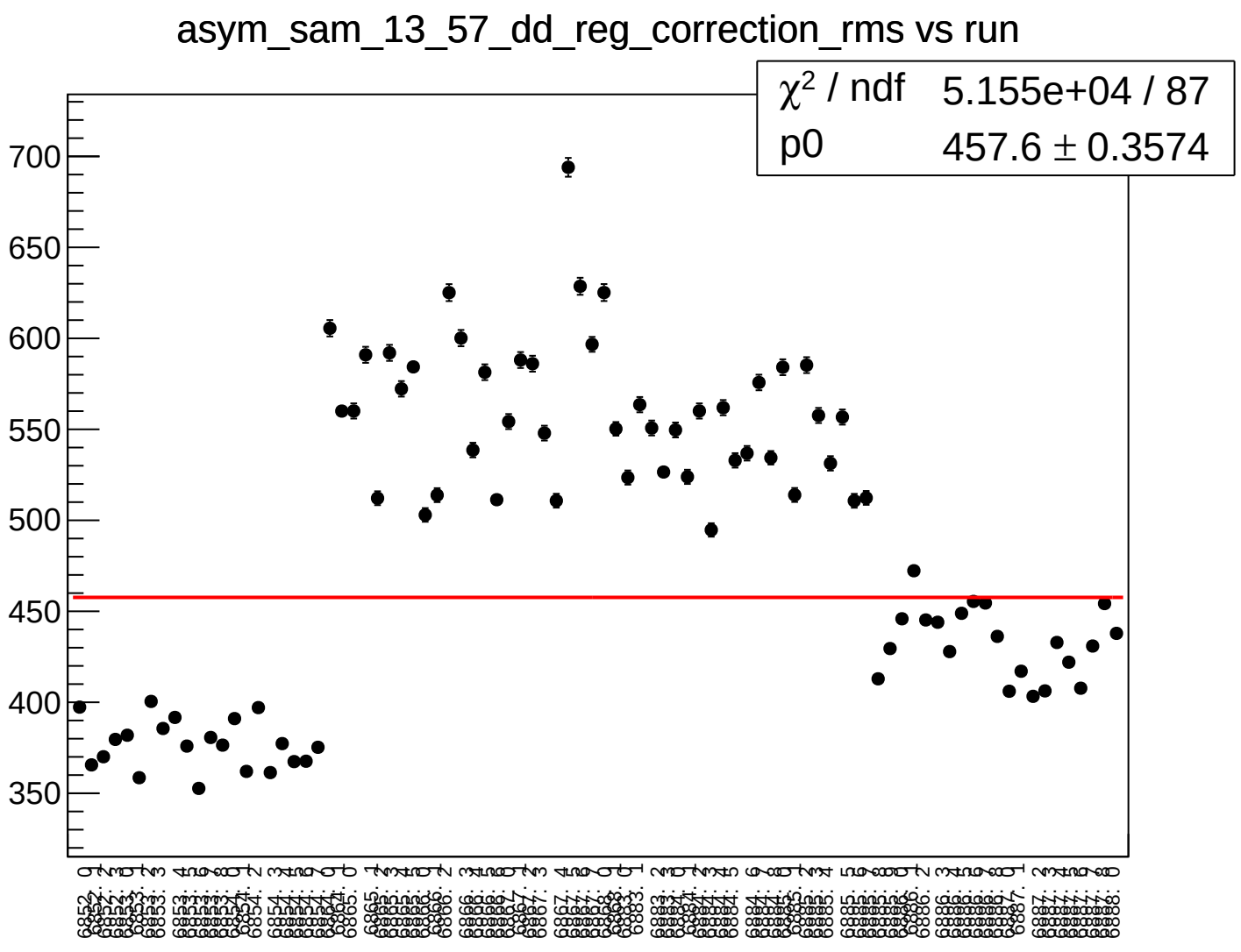

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 72.96 / 87
p0 −120.7 ± 59.94
pull
Entries 88
Mean −30.49
Std Dev 0

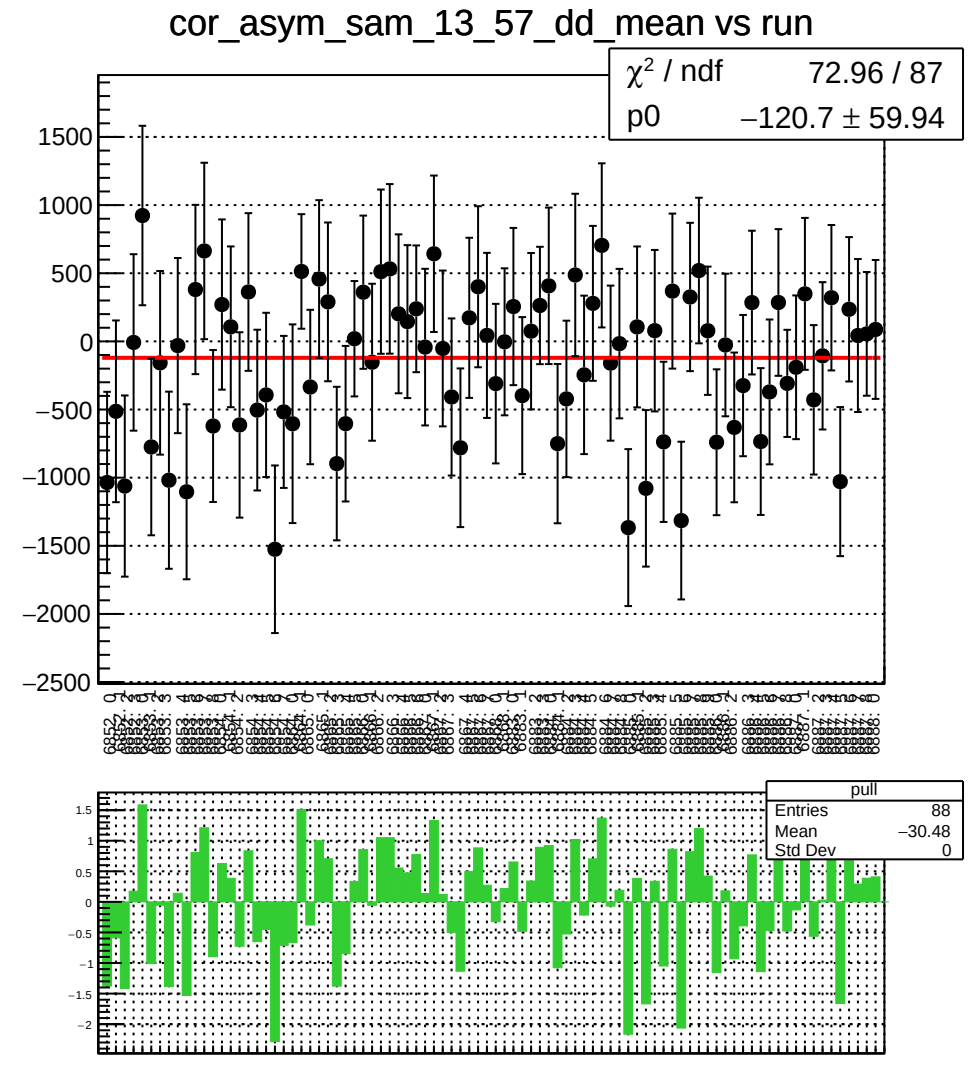

pull1D
Entries 88
Mean −0.02037
Std Dev 0.9103

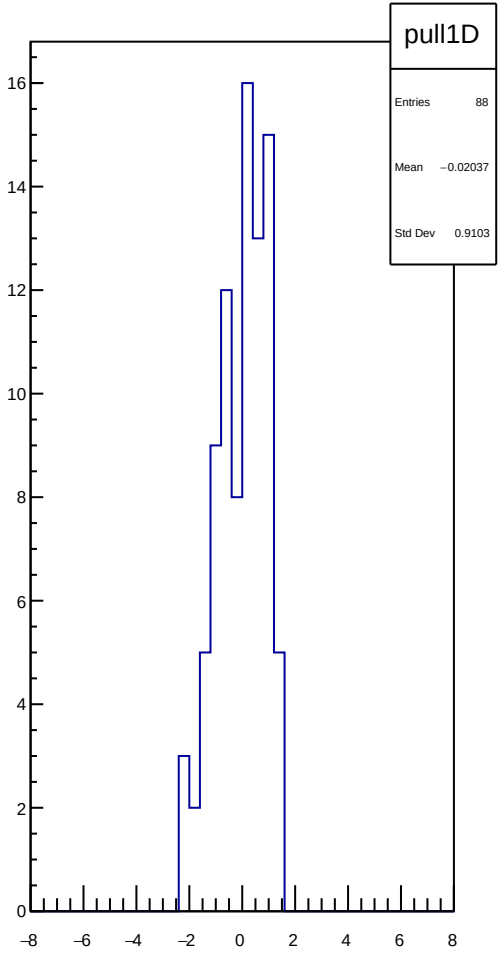

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 7666 / 87
p0 54.99 ± 0.04239
70
65
60
55
50

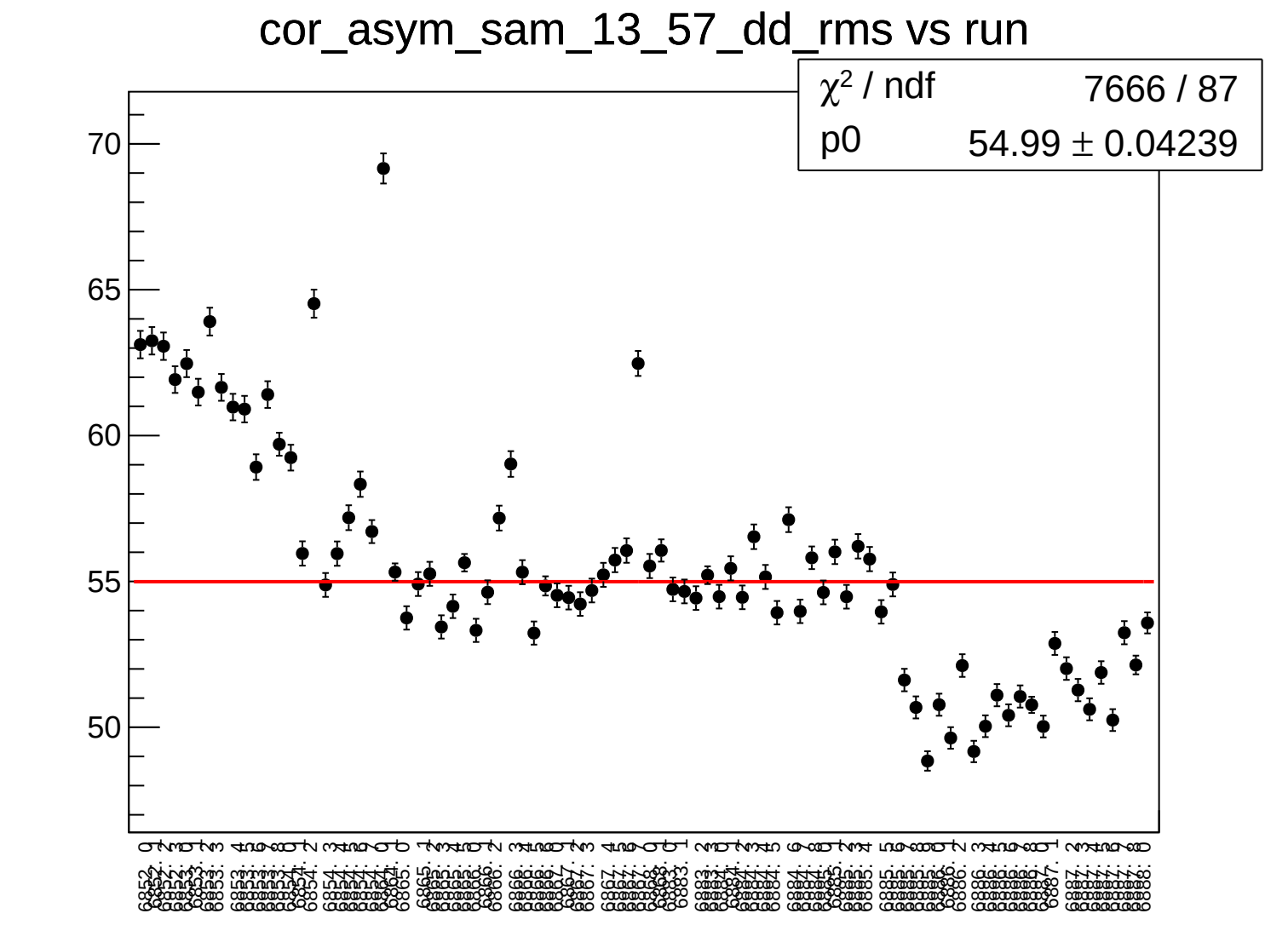

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 68.67 / 87
p0 −694.3 ± 505.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 1157
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

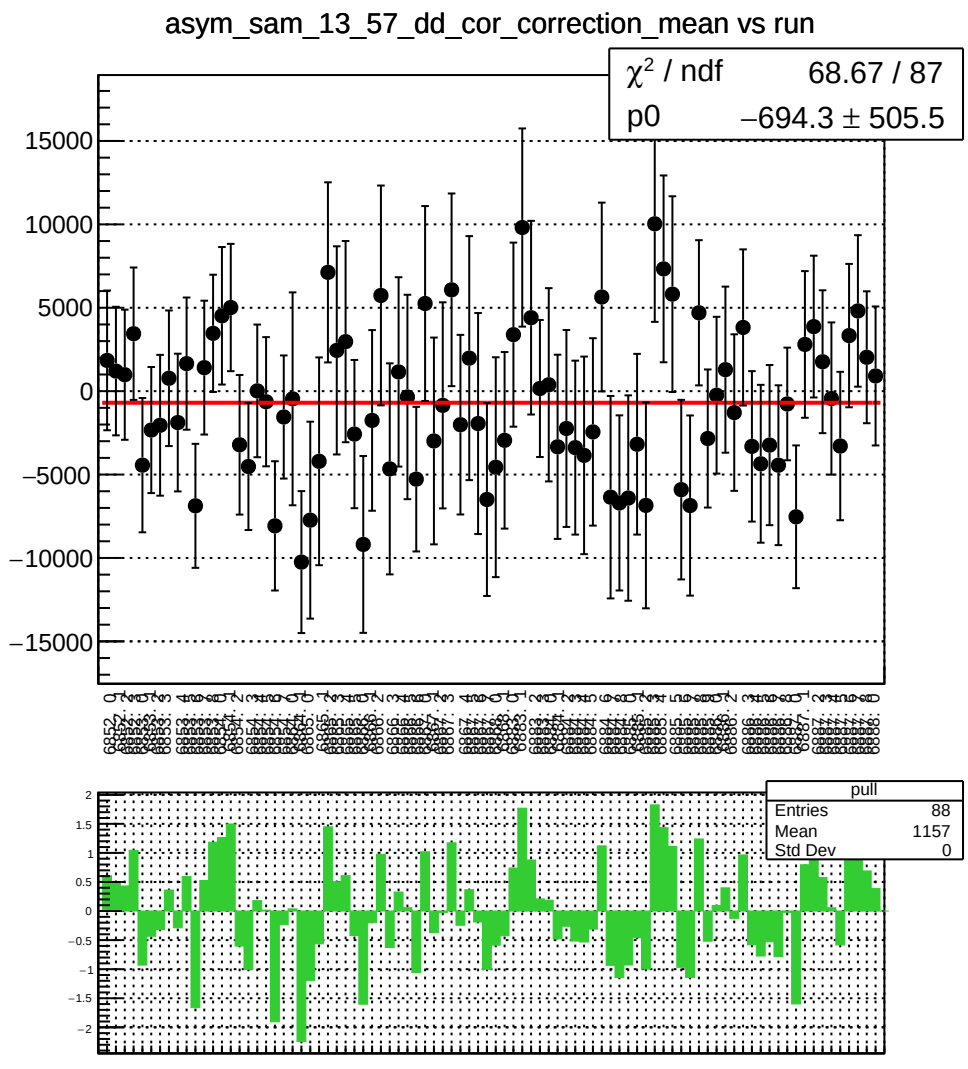

pull1D
Entries 88
Mean 0.001012
Std Dev 0.8834
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

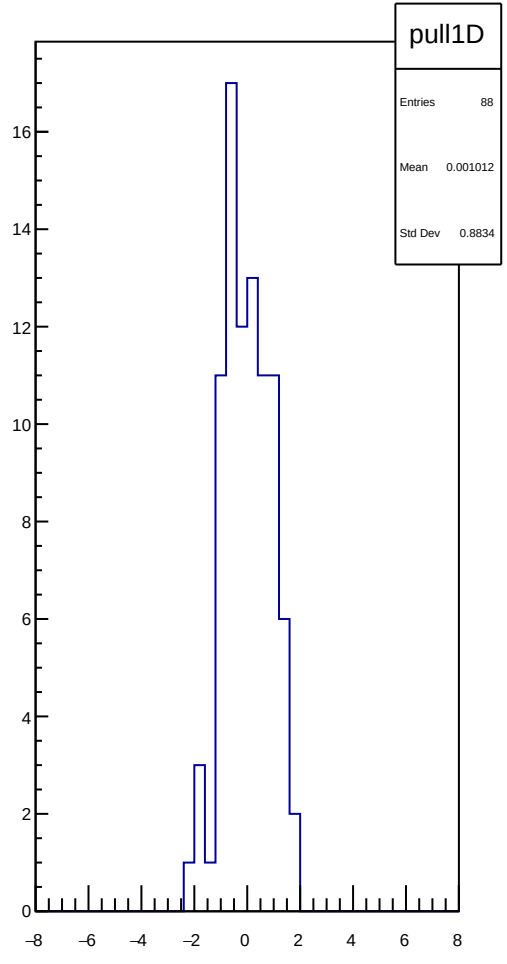

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 5.155e+04 / 87
p0 457.6 ± 0.3574
700
650
600
550
500
450
400
350

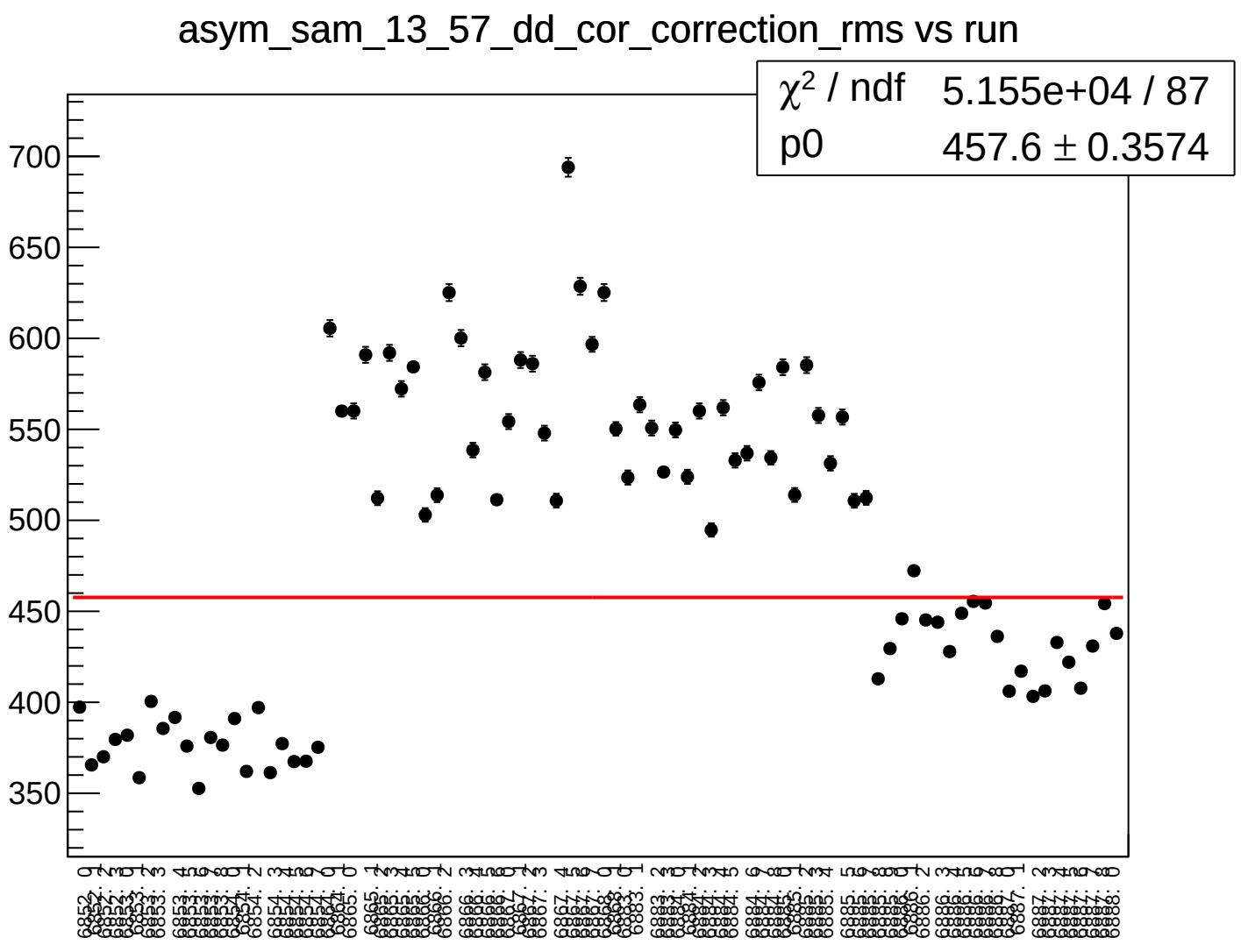

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 72.96 / 87
p0 −120.7 ± 59.94
pull
Entries 88
Mean −30.48
Std Dev 0

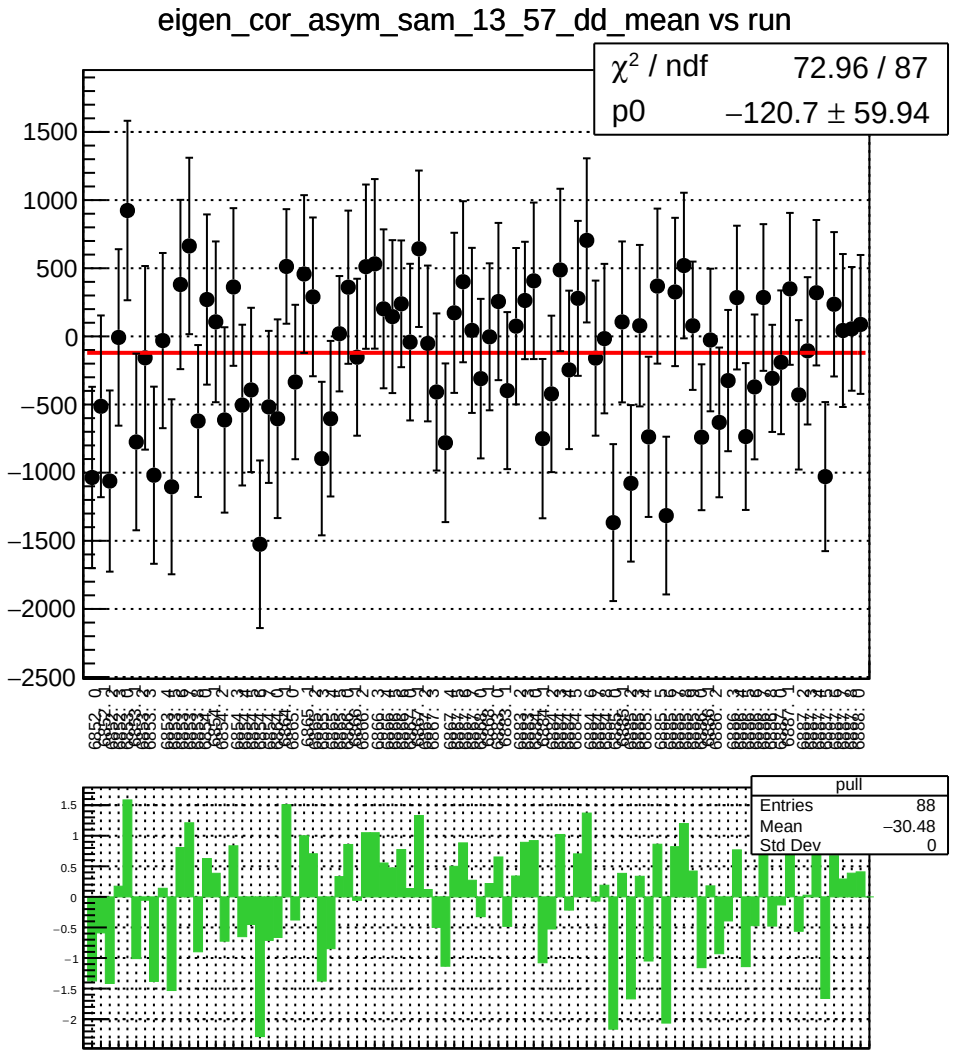

pull1D
Entries 88
Mean −0.02037
Std Dev 0.9103

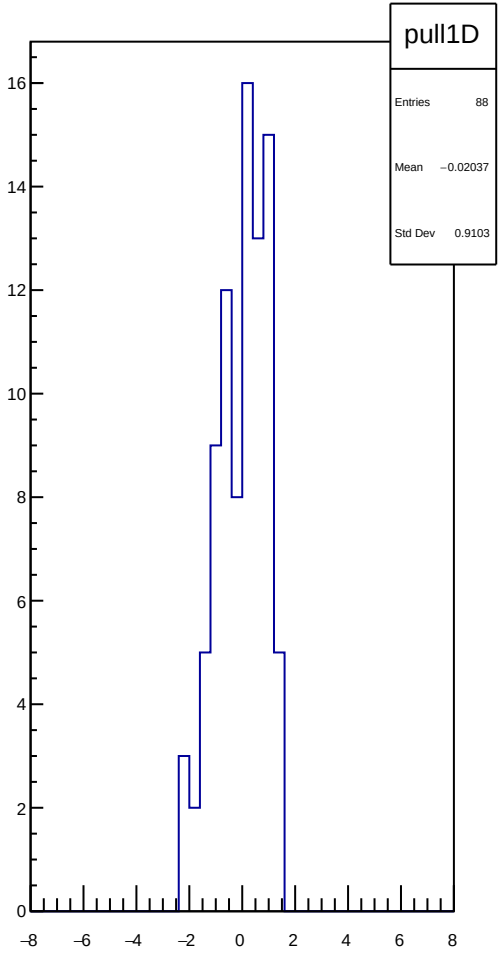

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 7666 / 87
p0 54.99 ± 0.04239
70
65
60
55
50

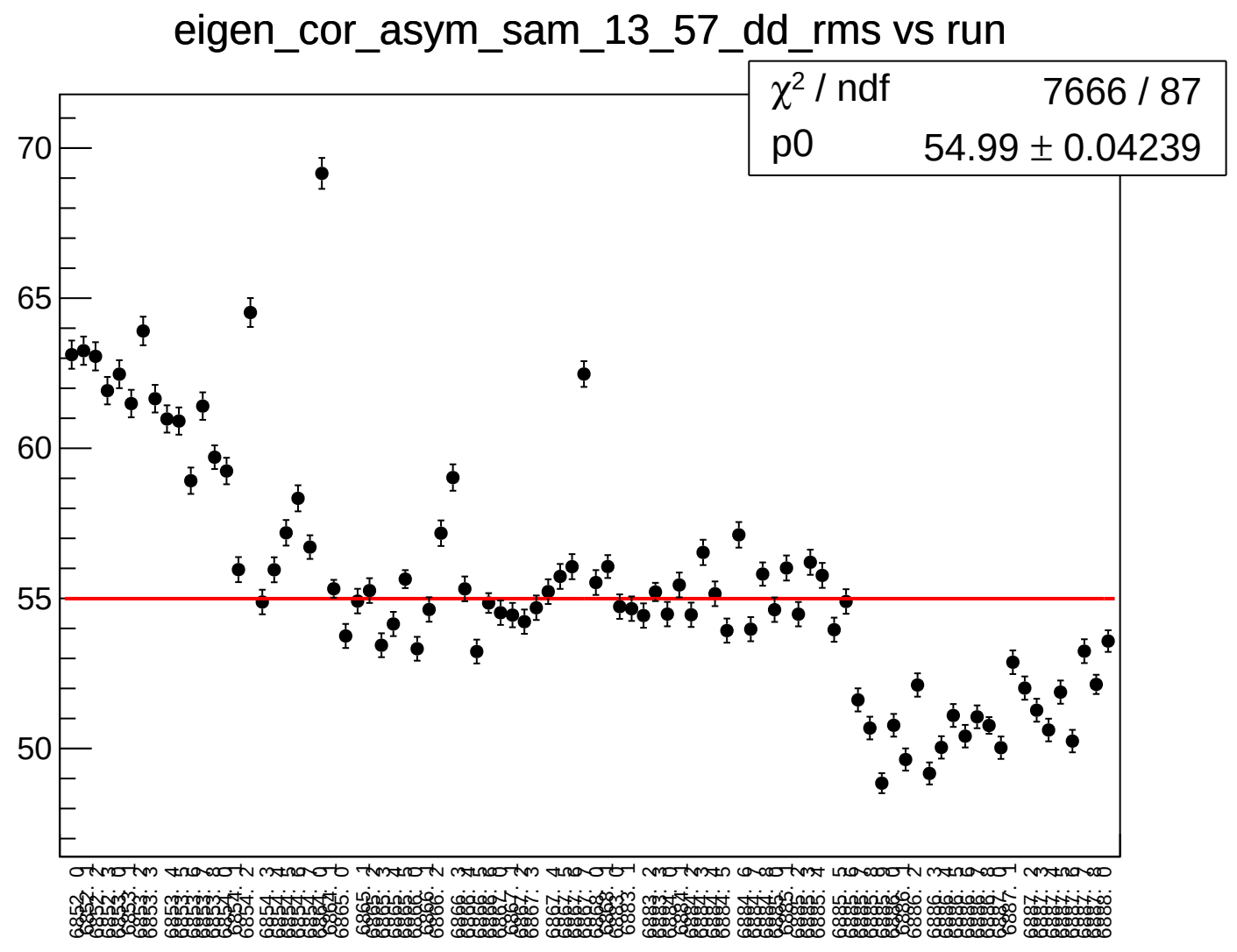

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 68.67 / 87
p0 −694.3 ± 505.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 1157
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

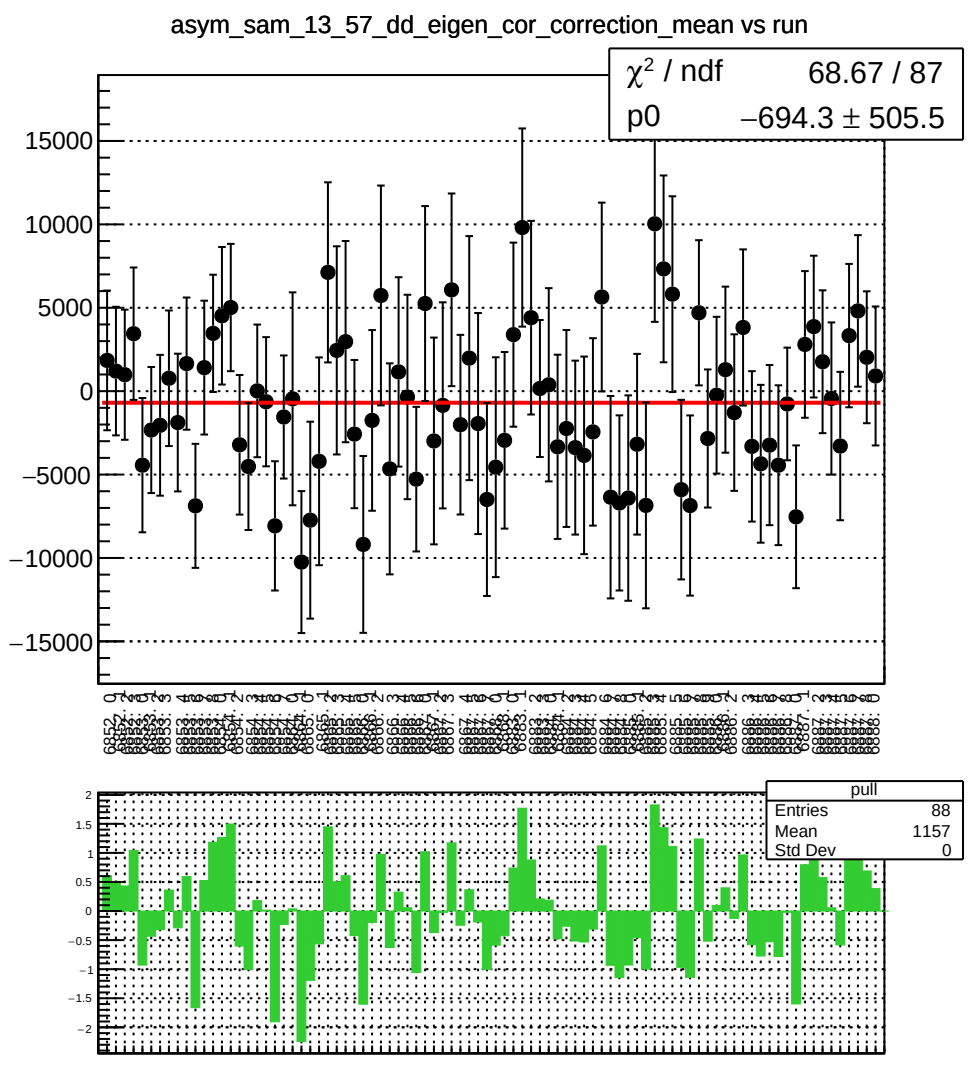

pull1D
Entries 88
Mean 0.001012
Std Dev 0.8834
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

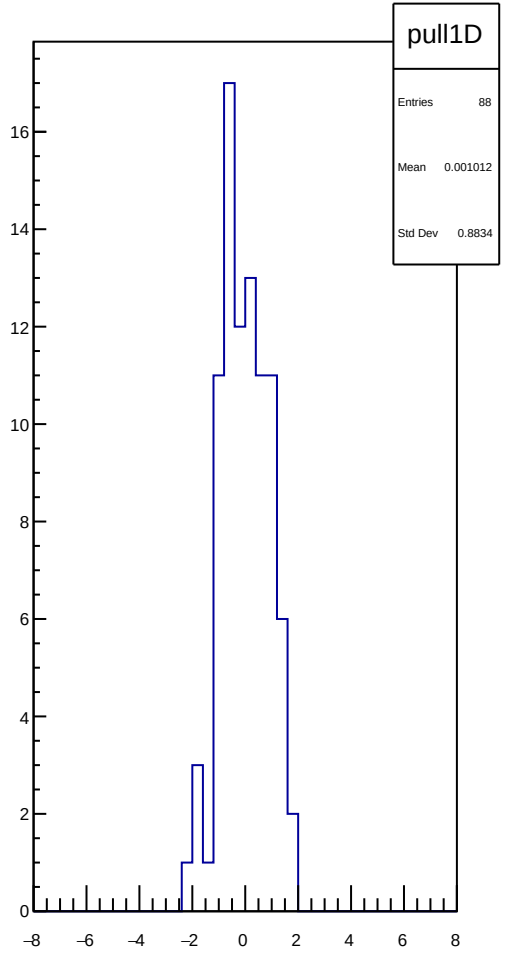

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 5.155e+04 / 87
p0 457.6 ± 0.3574
700
650
600
550
500
450
400
350

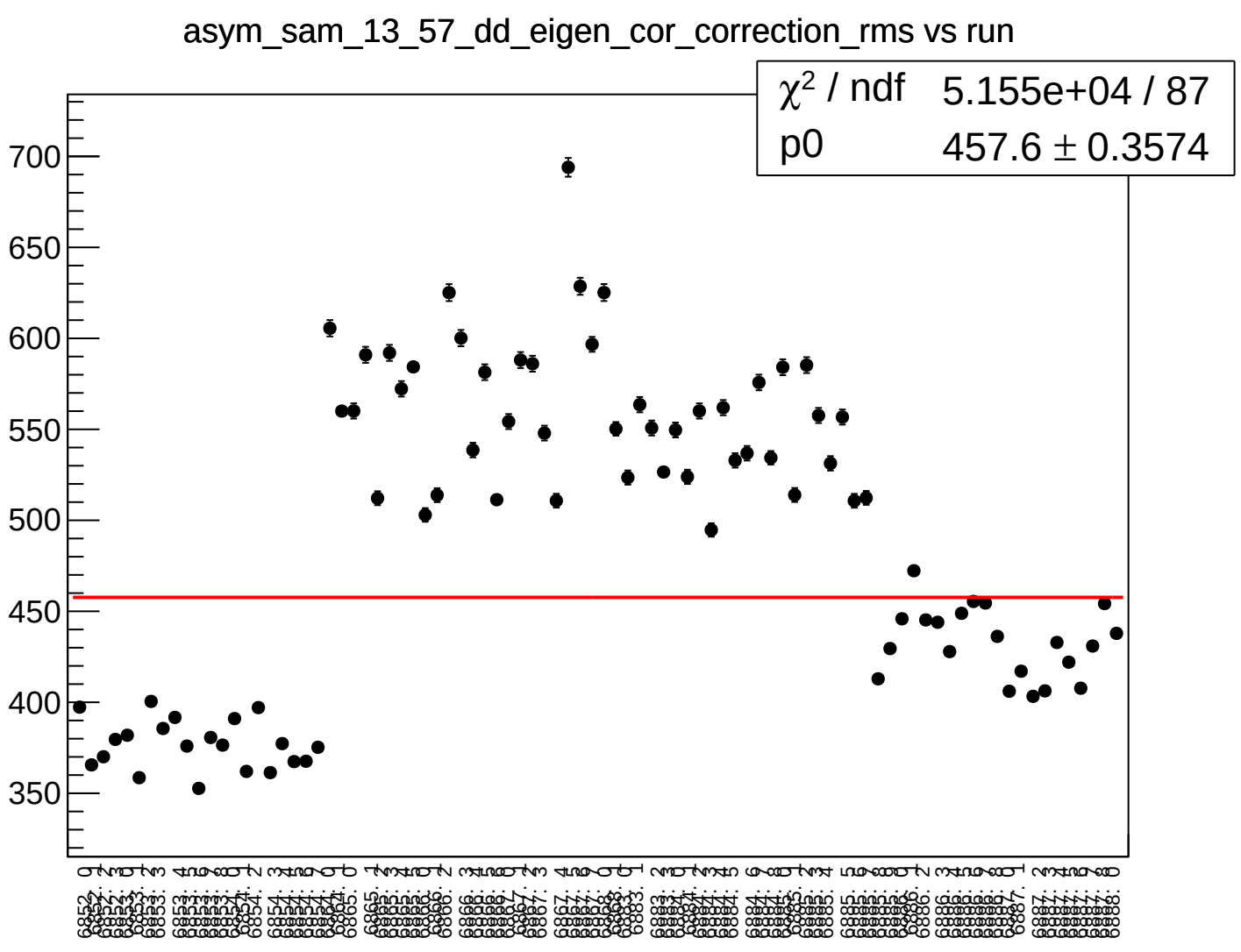

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 72.96 / 87
p0 −120.7 ± 59.94
pull
Entries 88
Mean −30.48
Std Dev 0

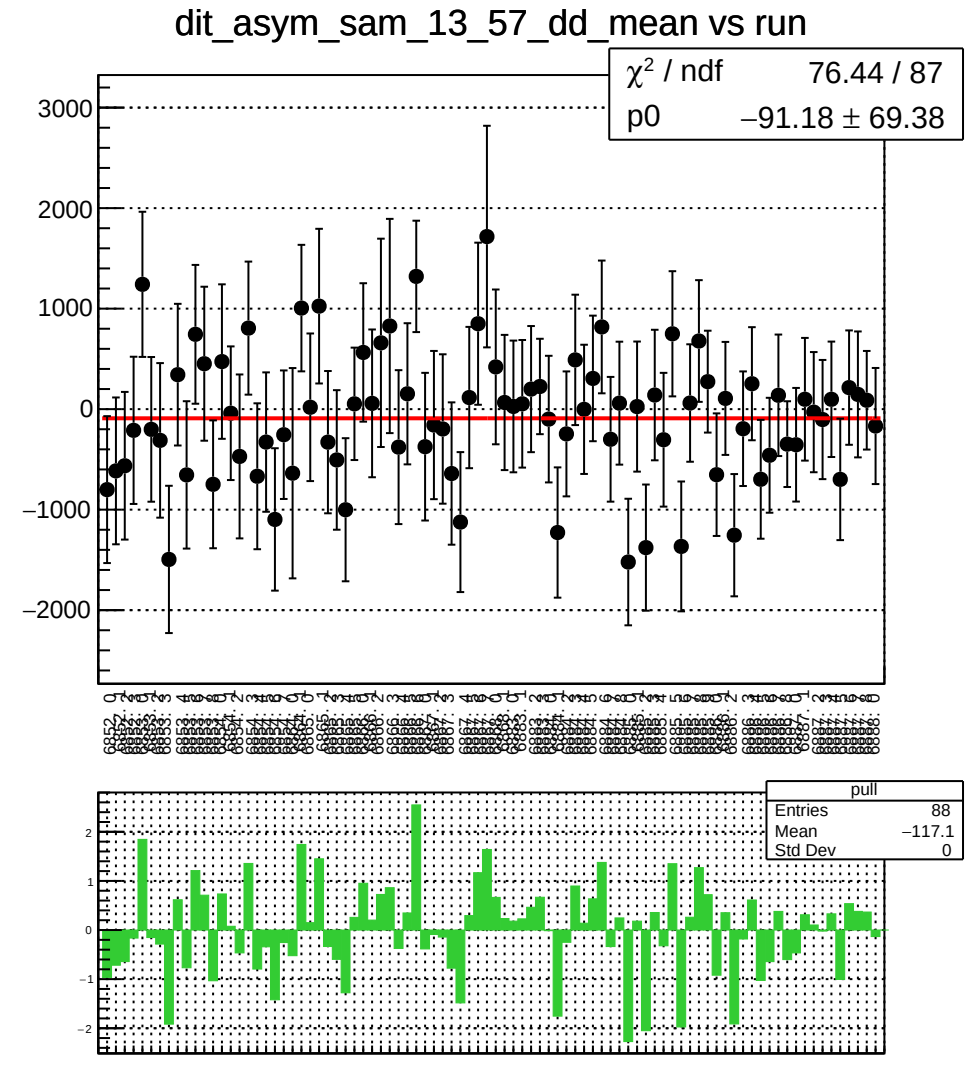

pull1D
Entries 88
Mean −0.02037
Std Dev 0.9103

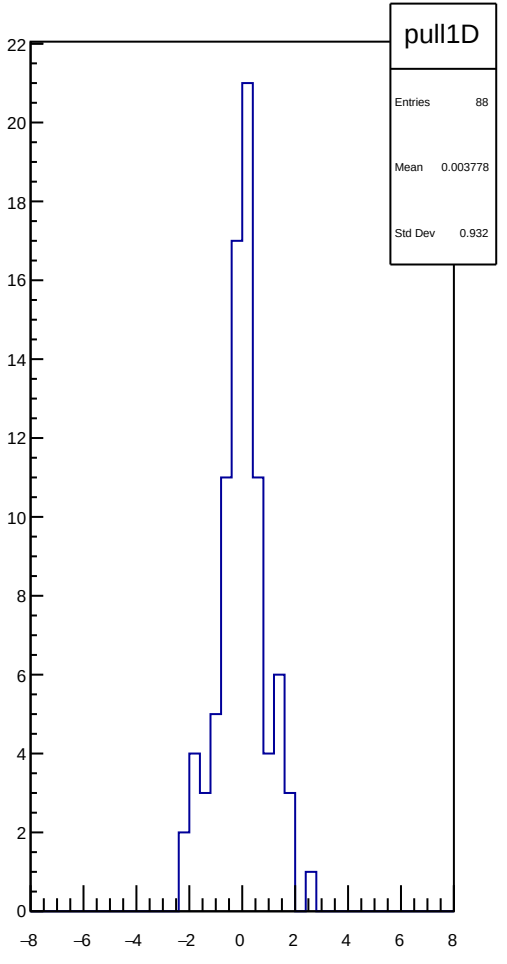

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 7666 / 87
p0 54.99 ± 0.04239
70
65
60
55
50

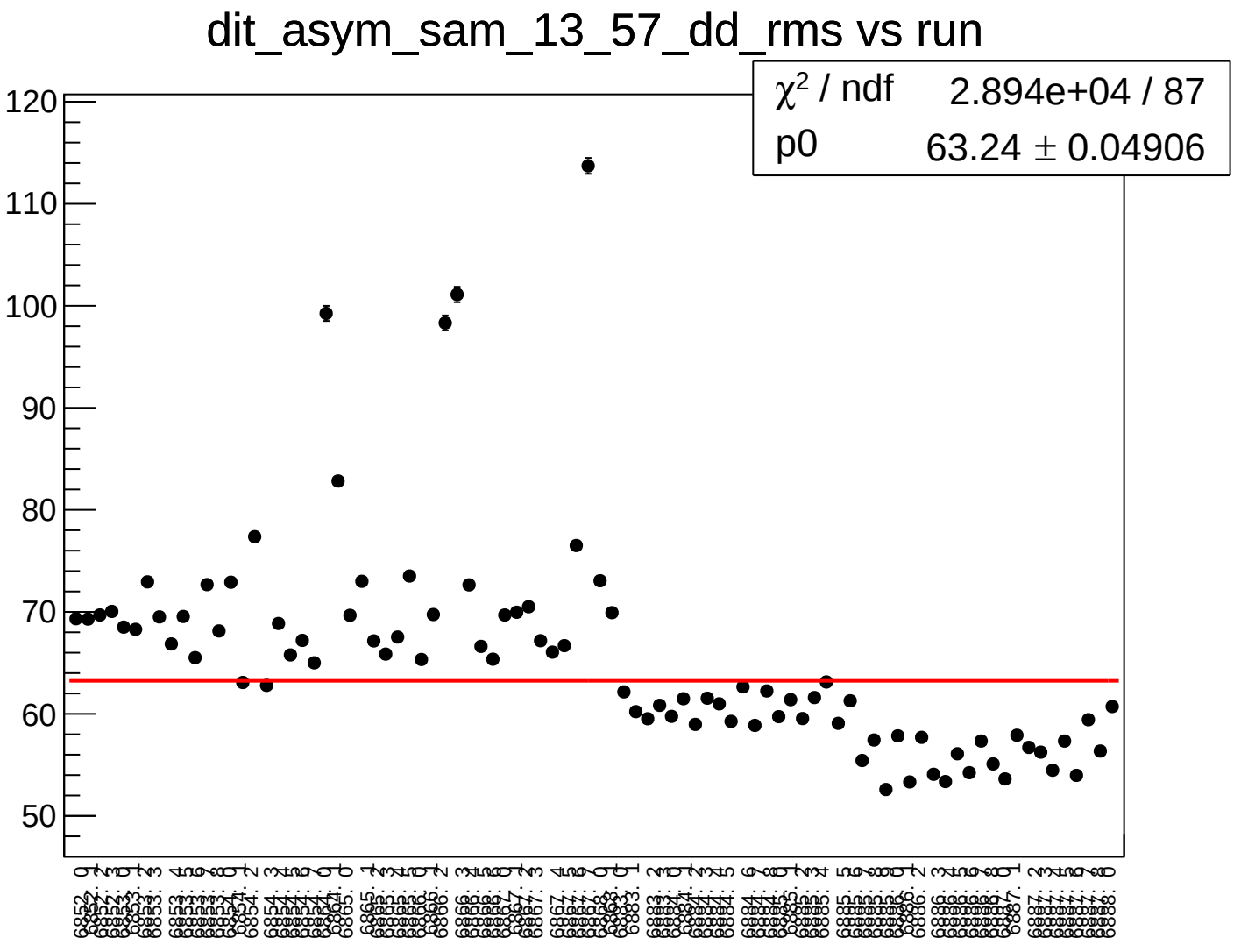

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.67 / 87
p0 −694.3 ± 505.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 1157
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

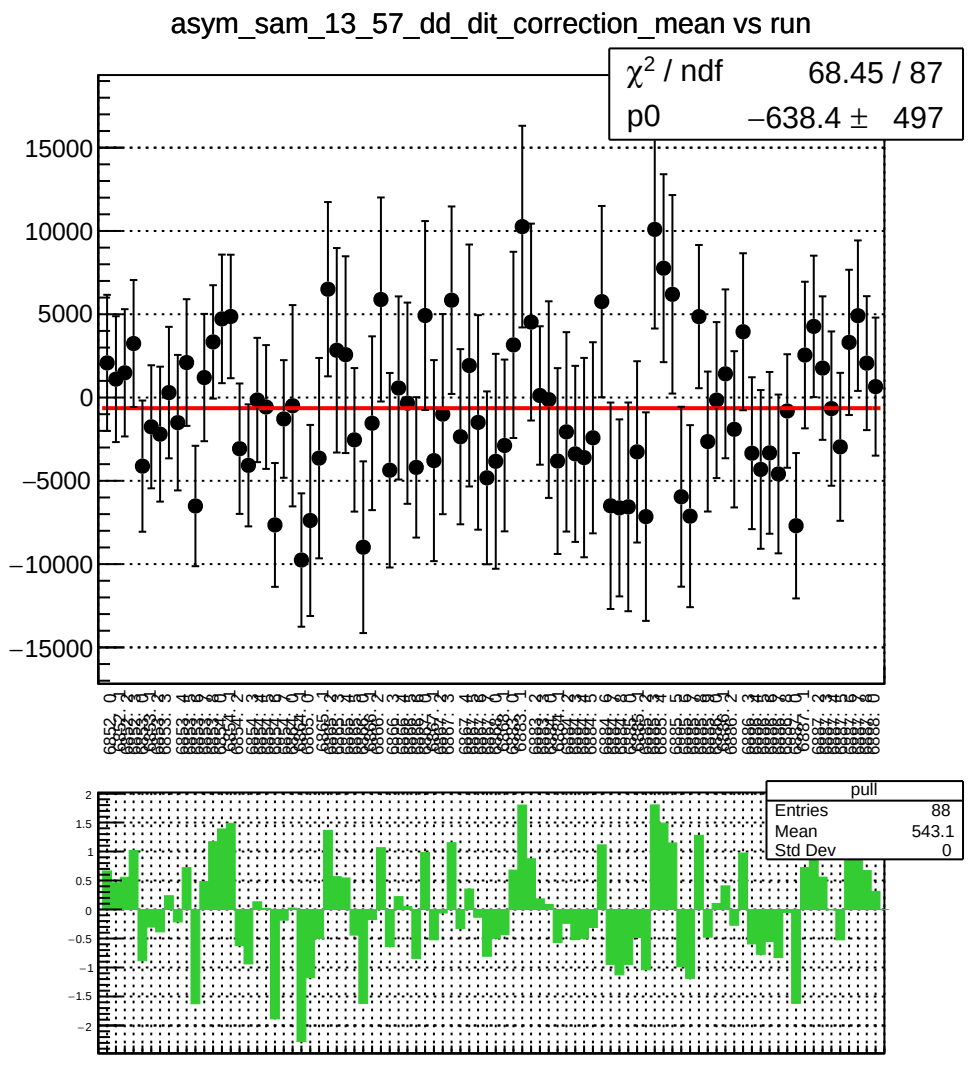

pull1D
Entries 88
Mean 0.001012
Std Dev 0.8834
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

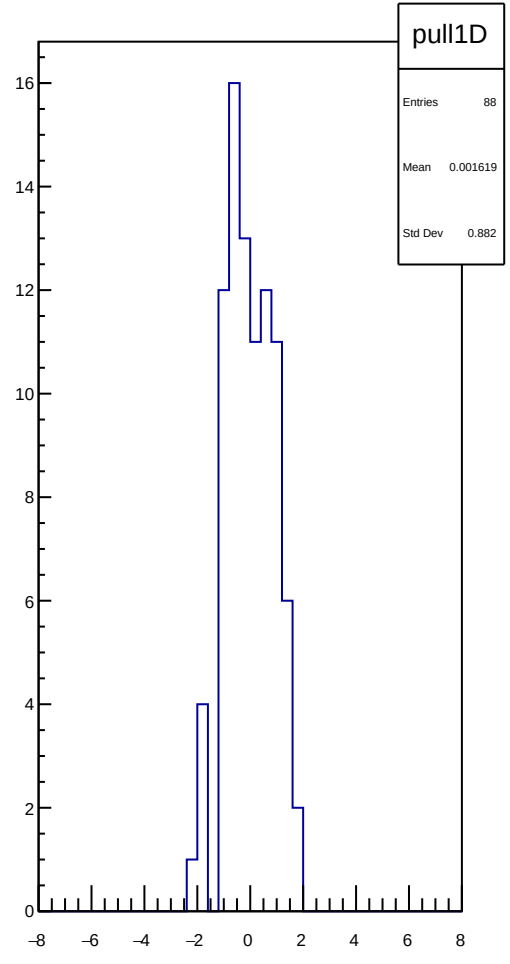

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.155e+04 / 87
p0 457.6 ± 0.3574
700
650
600
550
500
450
400
350

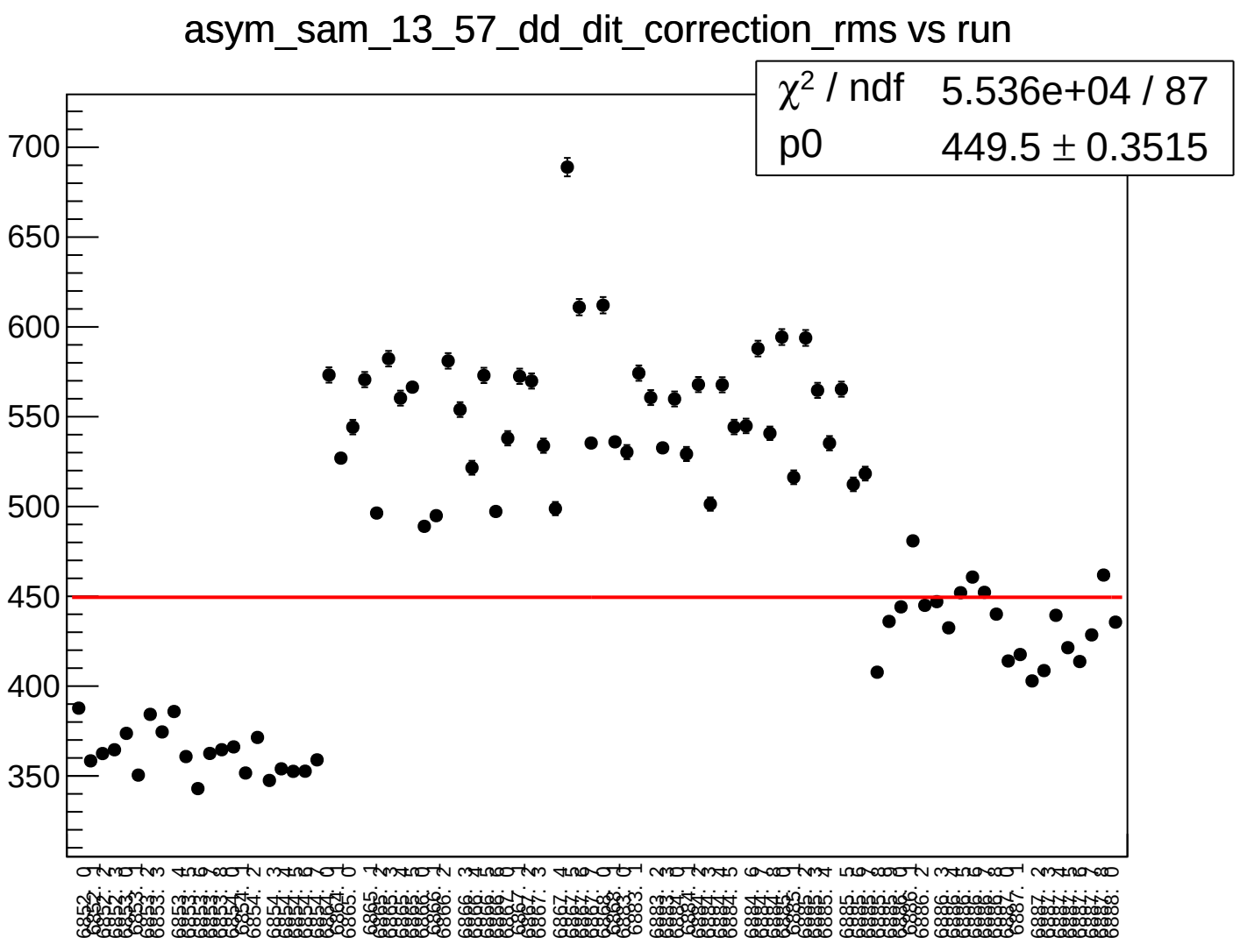

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 76.44 / 87
p0 −91.18 ± 69.38
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −117.1
Std Dev 0
2
1
0
−1
−2

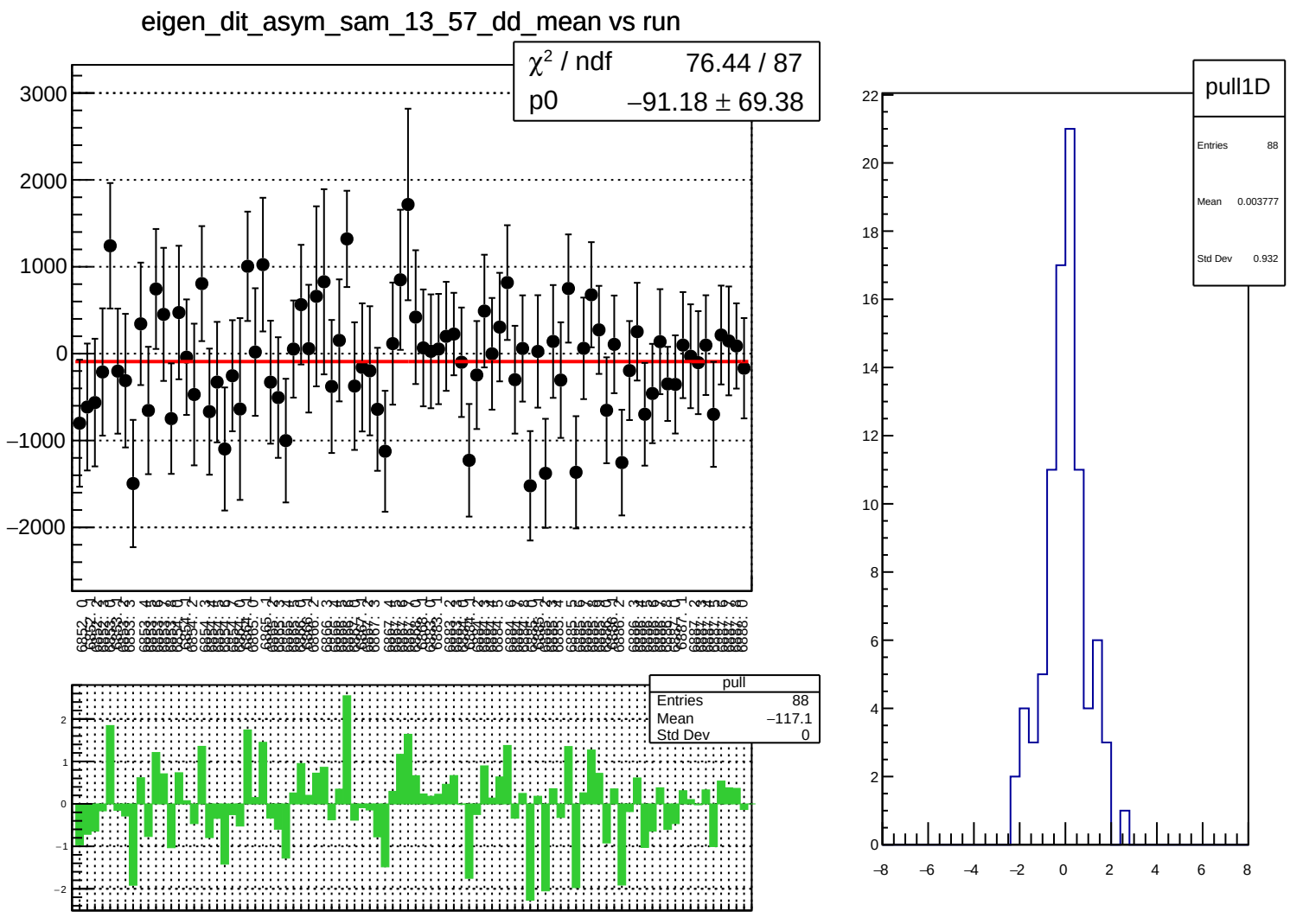

pull1D
Entries 88
Mean 0.003778
Std Dev 0.932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

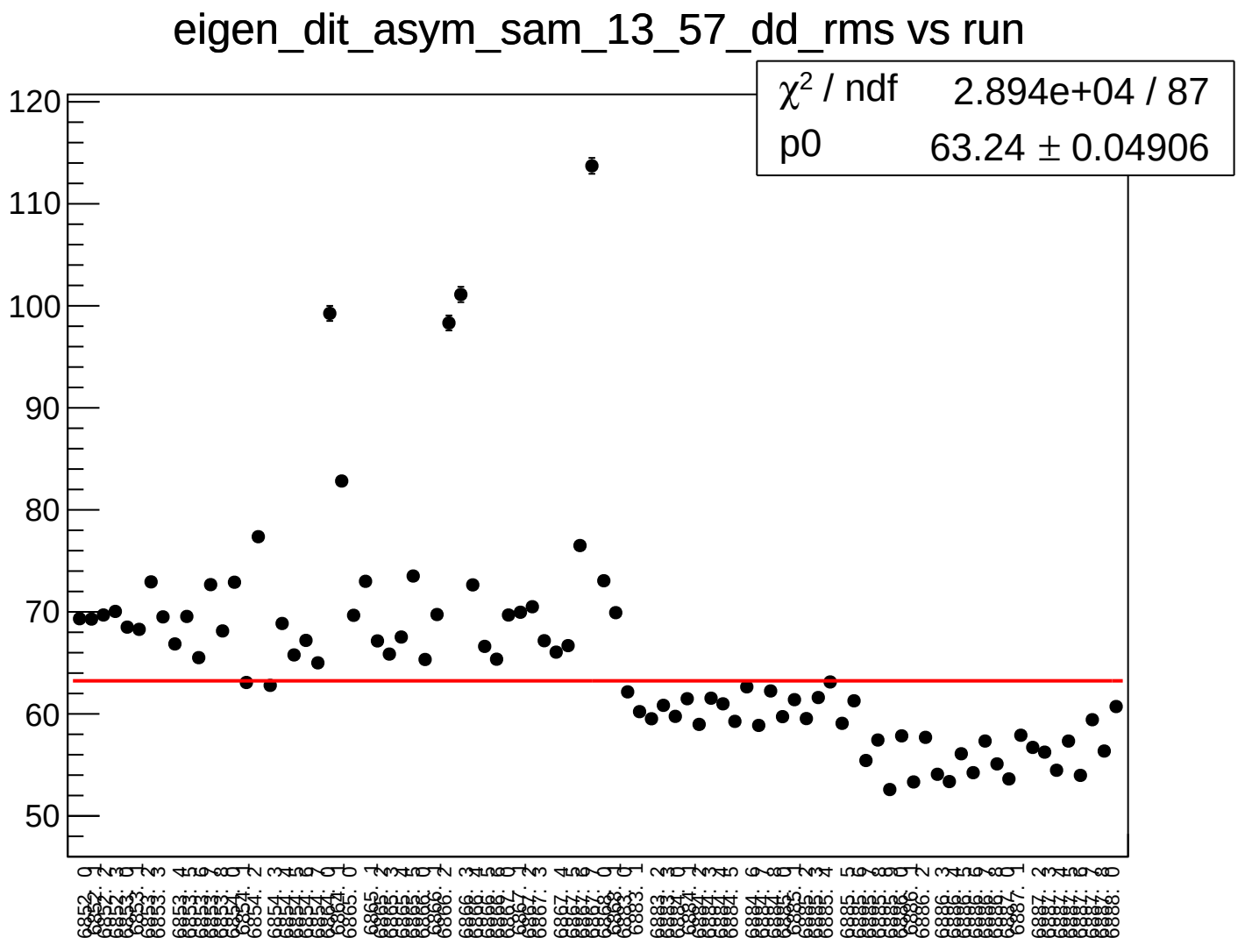

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.894e+04 / 87
p0 63.24 ± 0.04906
120
110
100
90
80
70
60
50

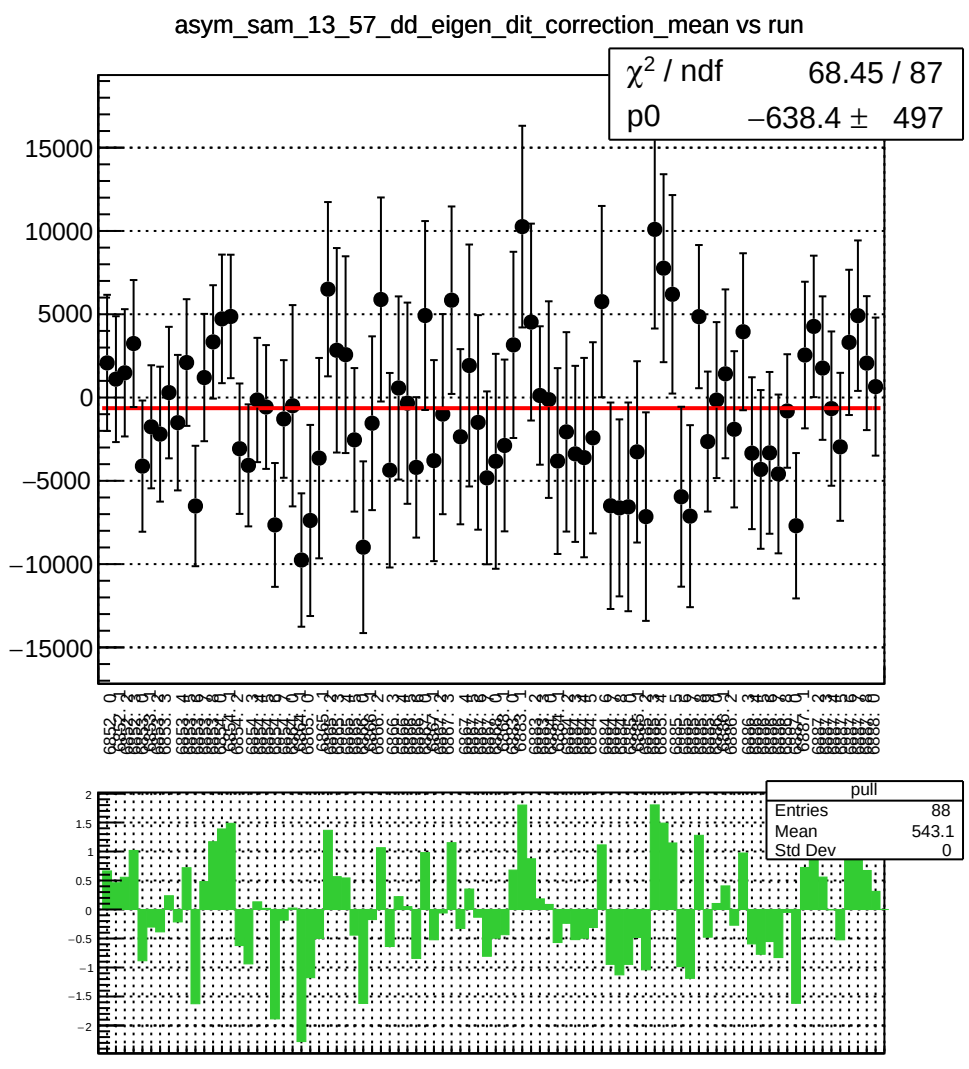

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 68.45 / 87
p0 −638.4 ± 497
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 543.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

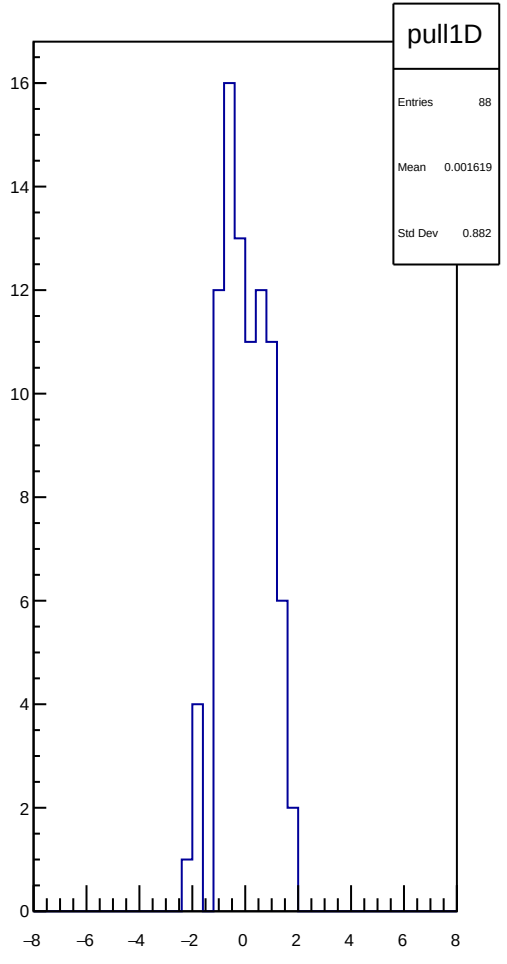

pull1D
Entries 88
Mean 0.001619
Std Dev 0.882
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

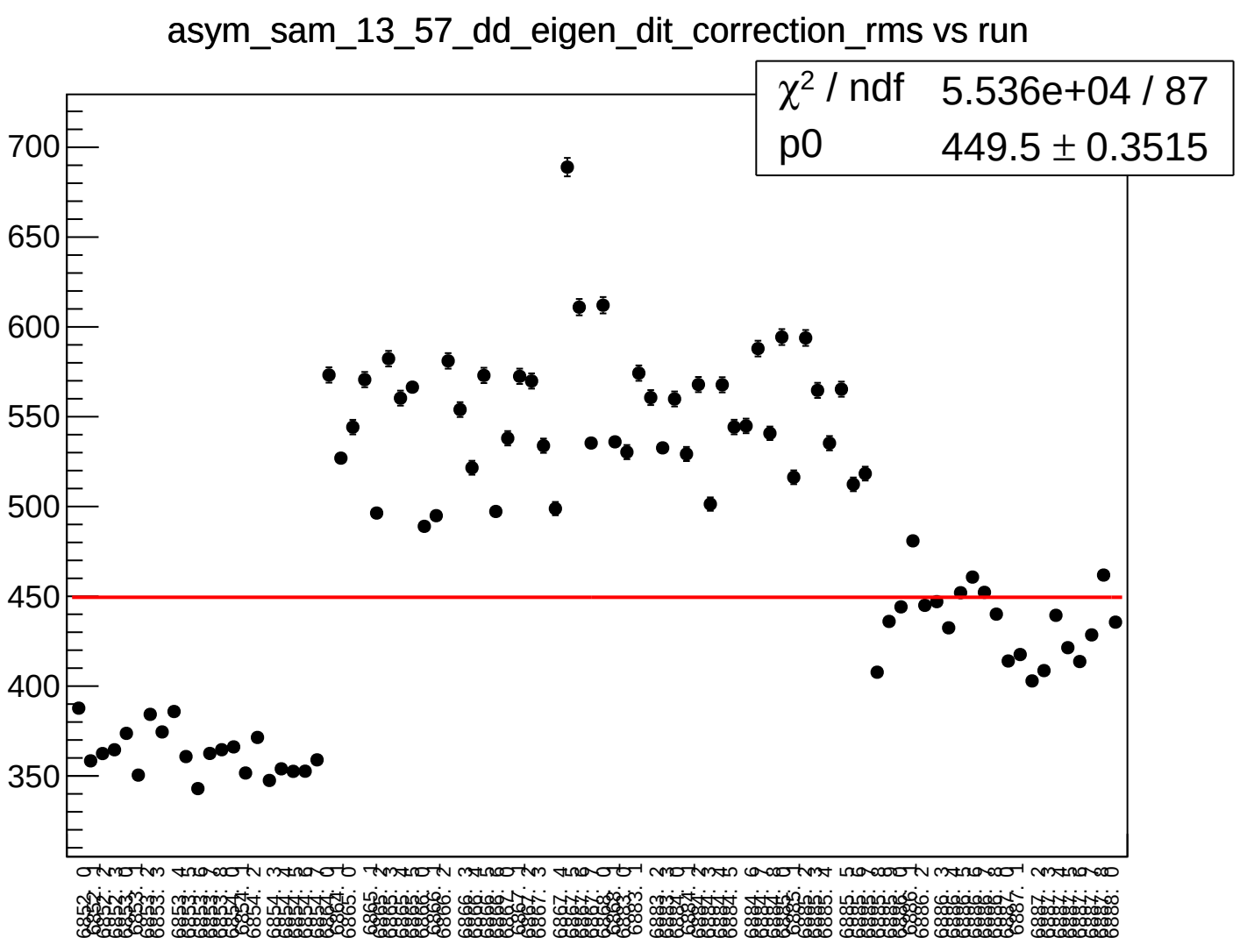

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 5.536e+04 / 87
p0 449.5 ± 0.3515
700
650
600
550
500
450
400
350

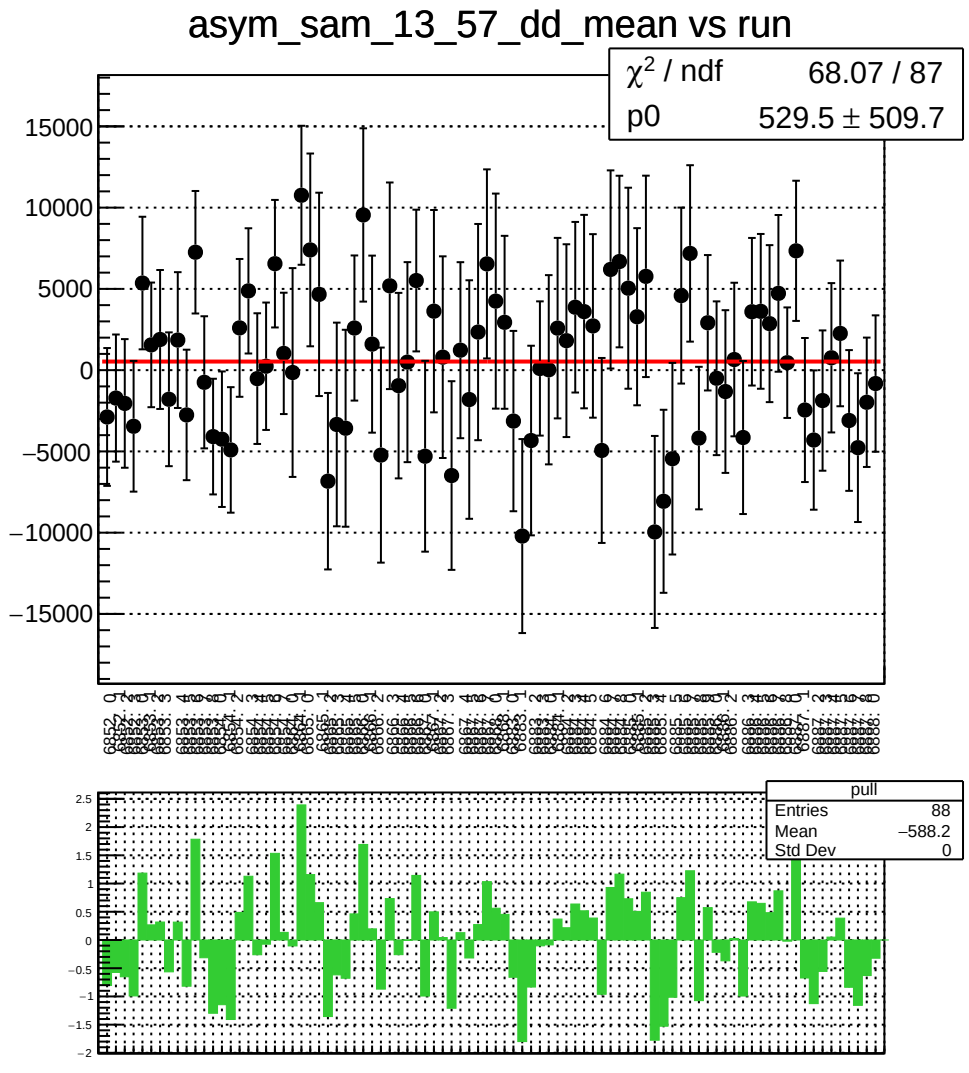

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 76.44 / 87
p0 −91.18 ± 69.38
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −117.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.003777
Std Dev 0.932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

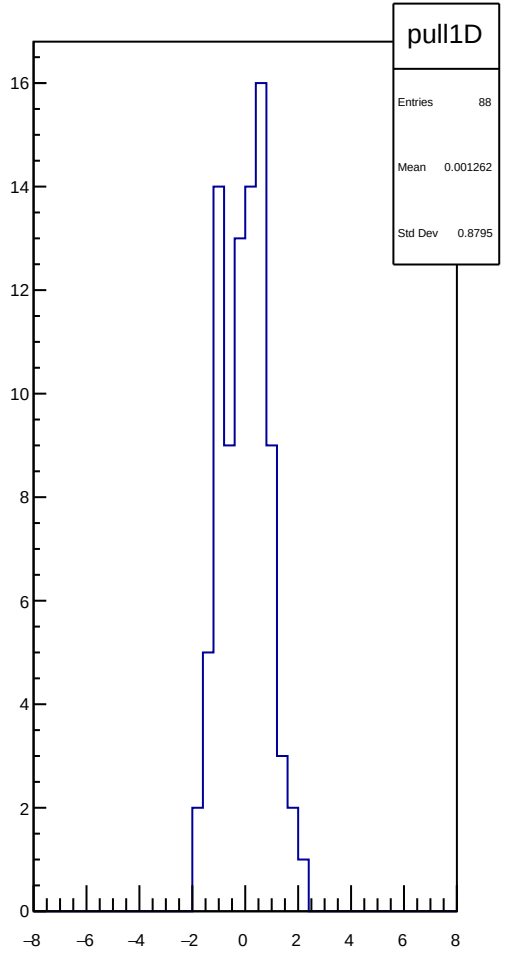

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.894e+04 / 87
p0 63.24 ± 0.04906
120
110
100
90
80
70
60
50

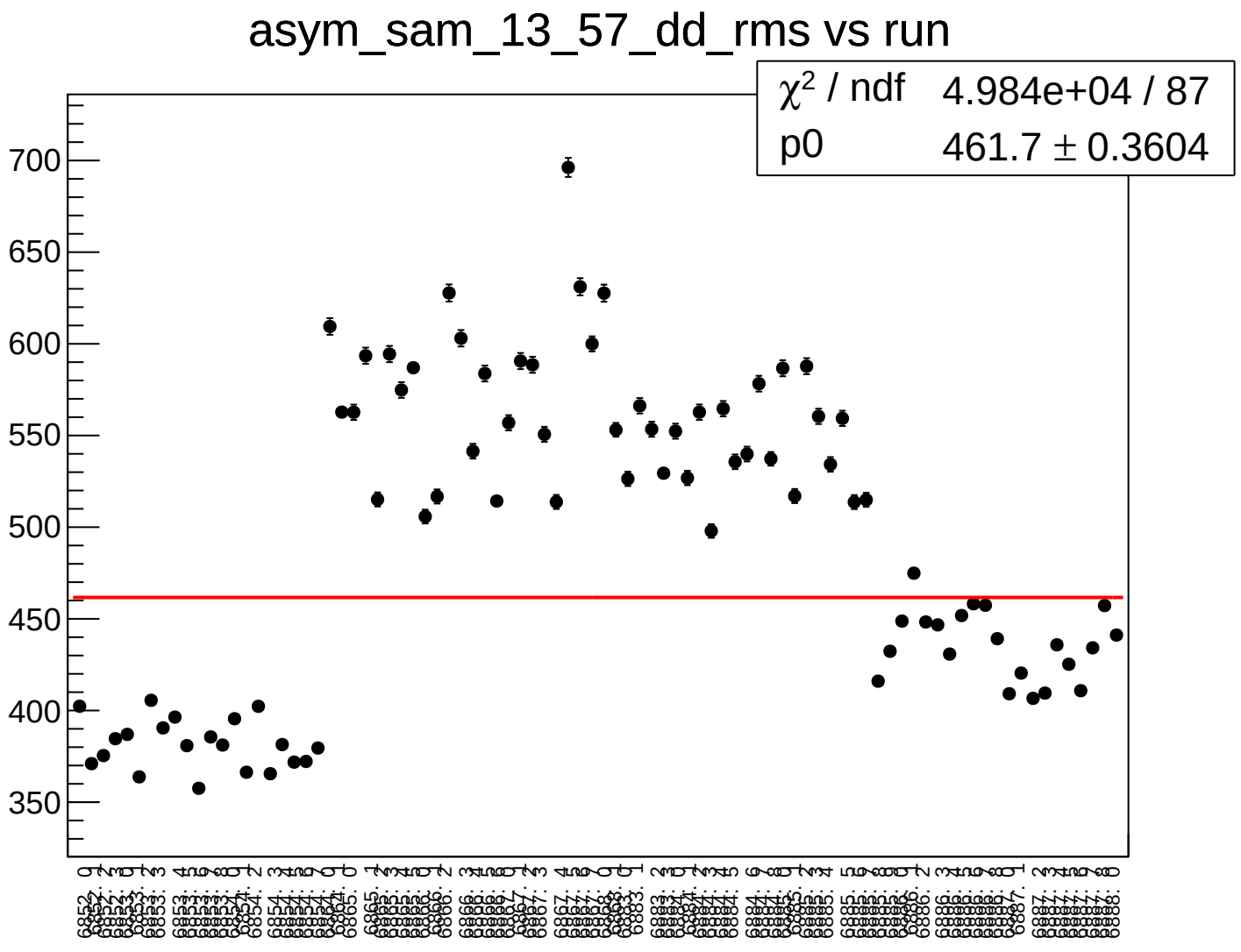

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.45 / 87
p0 −638.4 ± 497
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 543.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

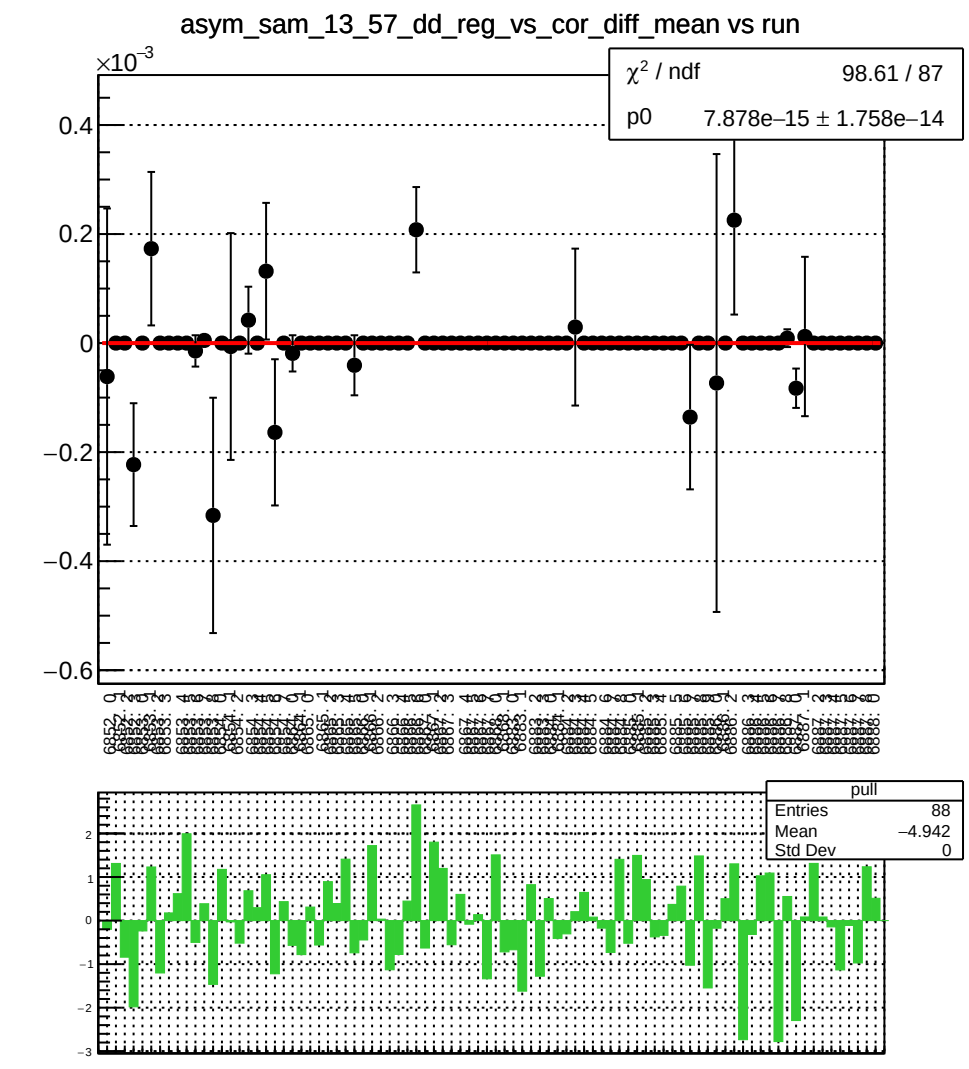

pull1D
Entries 88
Mean 0.001619
Std Dev 0.882
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

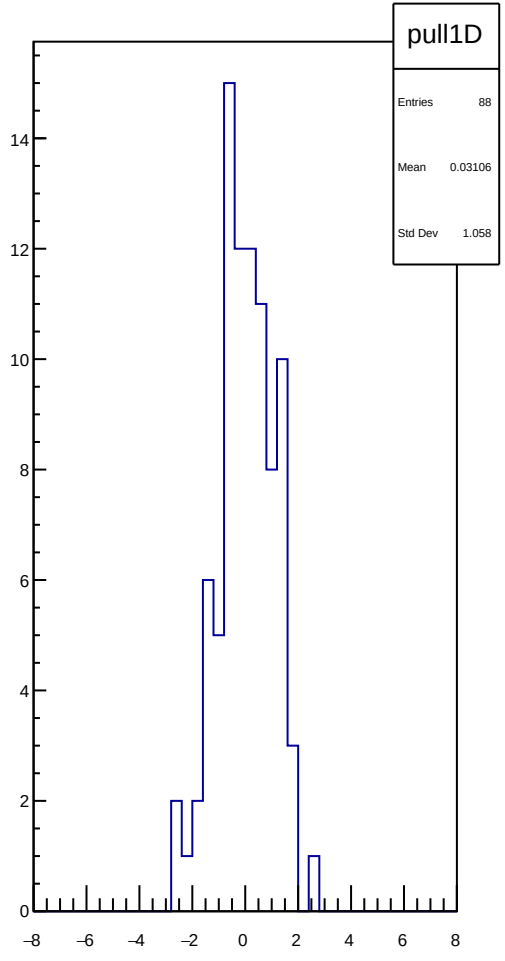

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.536e+04 / 87
p0 449.5 ± 0.3515
700
650
600
550
500
450
400
350

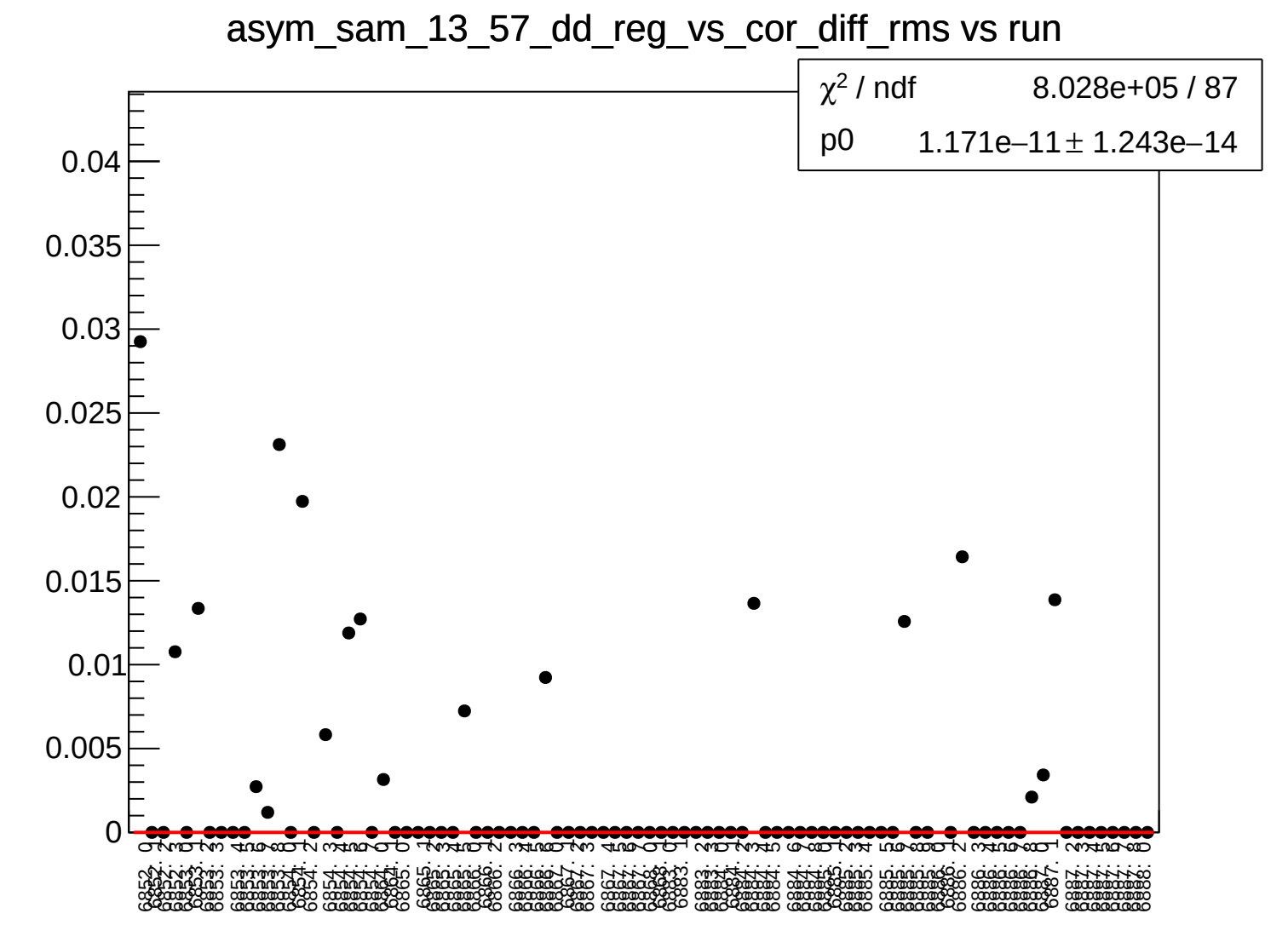

asym_sam_13_57_dd_mean vs run
χ² / ndf 68.07 / 87
p0 529.5 ± 509.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean −588.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

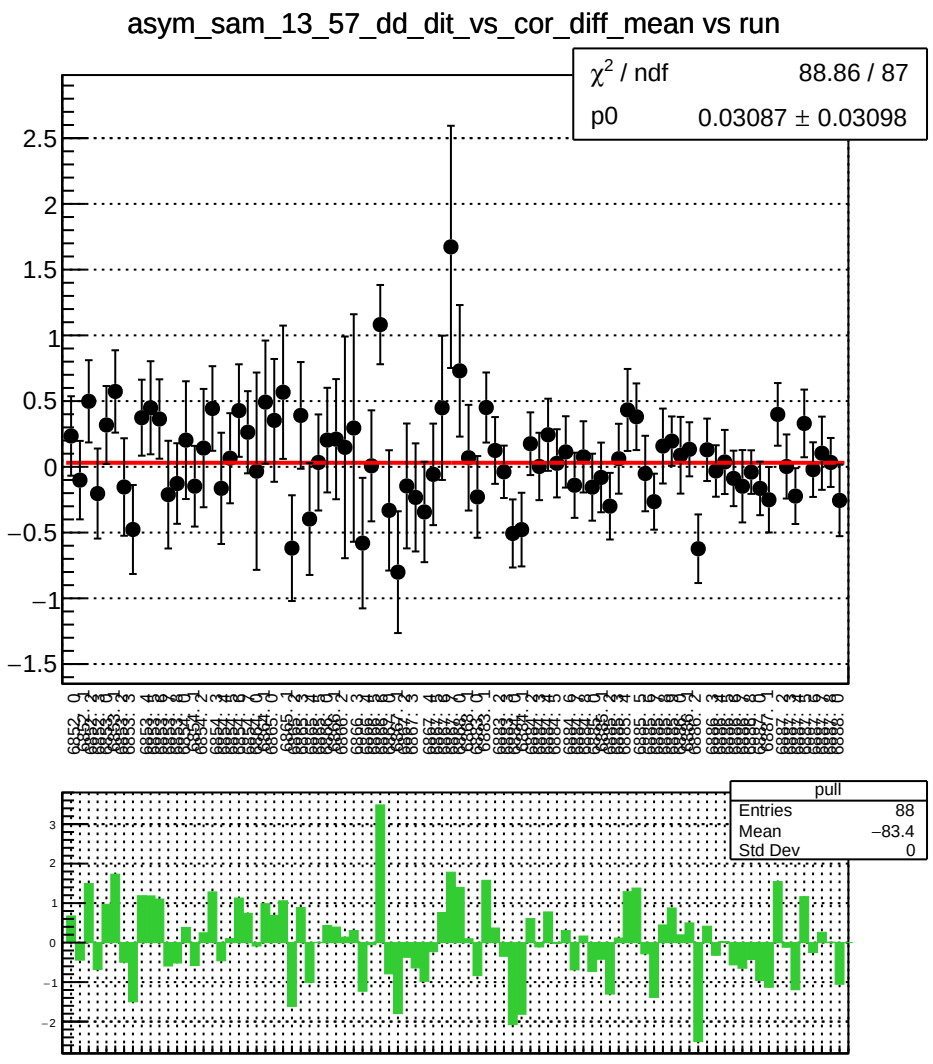

pull1D
Entries 88
Mean 0.001262
Std Dev 0.8795
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

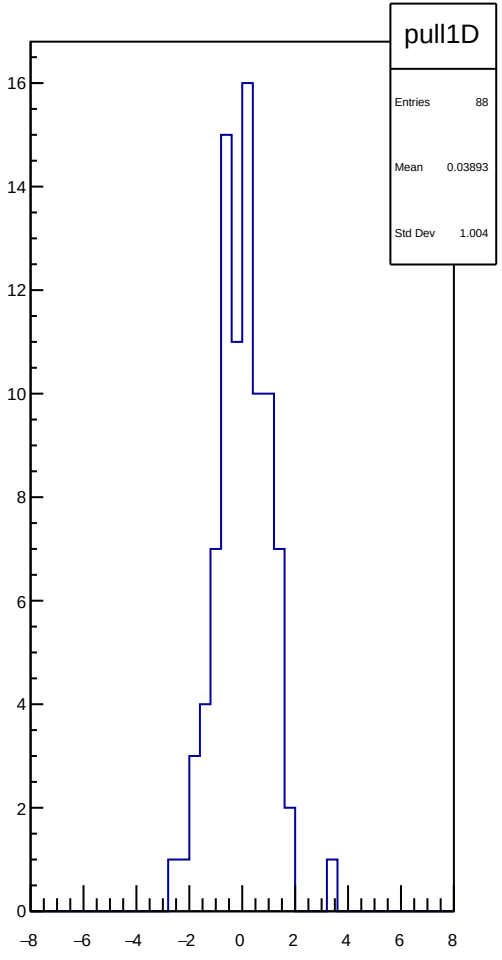

asym_sam_13_57_dd_rms vs run
χ² / ndf 4.984e+04 / 87
p0 461.7 ± 0.3604
700
650
600
550
500
450
400
350

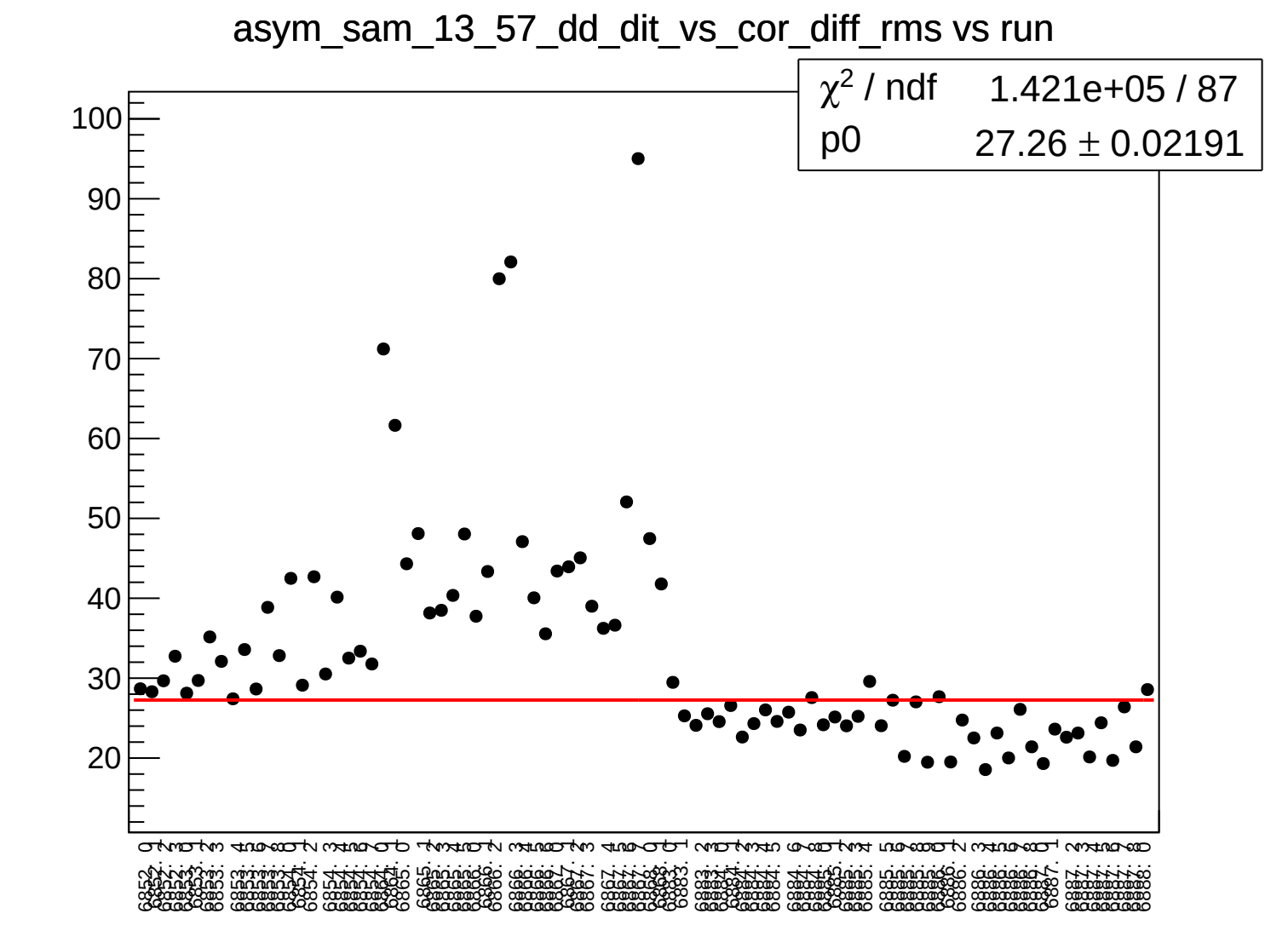

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 98.61 / 87
p0 7.878e−15 ± 1.758e−14
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 88
Mean −4.942
Std Dev 0
2
1
0
−1
−2
−3

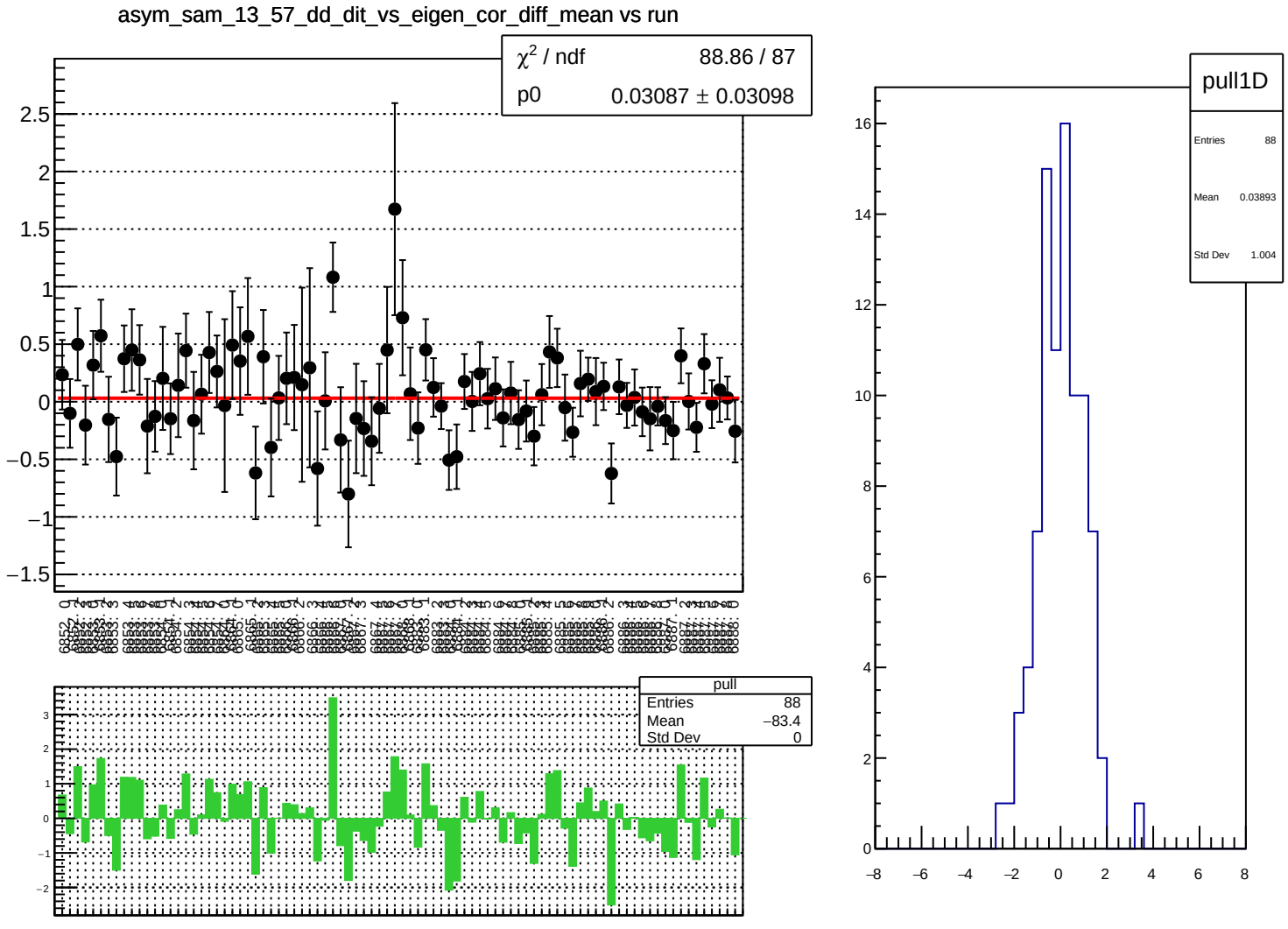

pull1D
Entries 88
Mean 0.03106
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

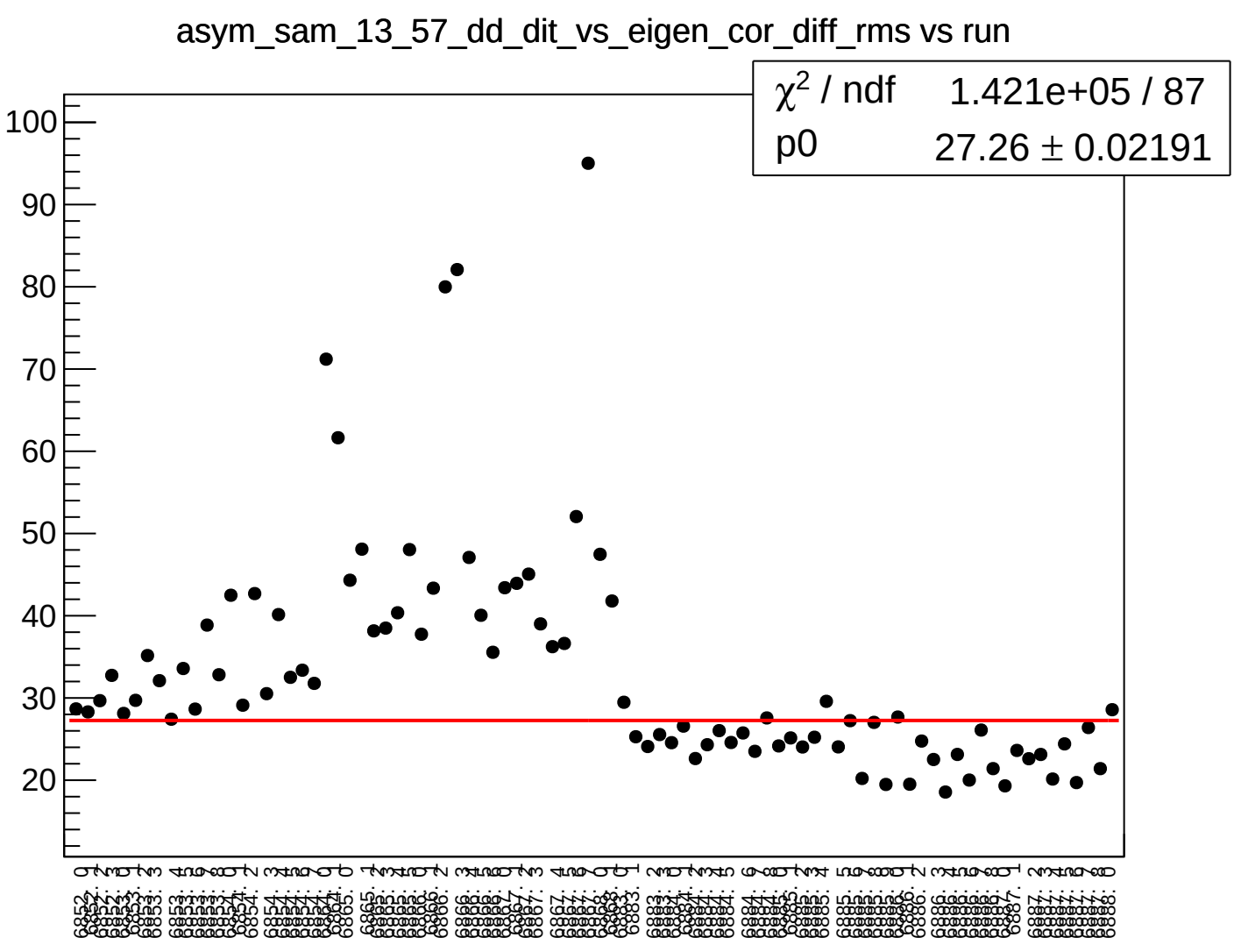

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.028e+05 / 87
p0 1.171e−11 ± 1.243e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

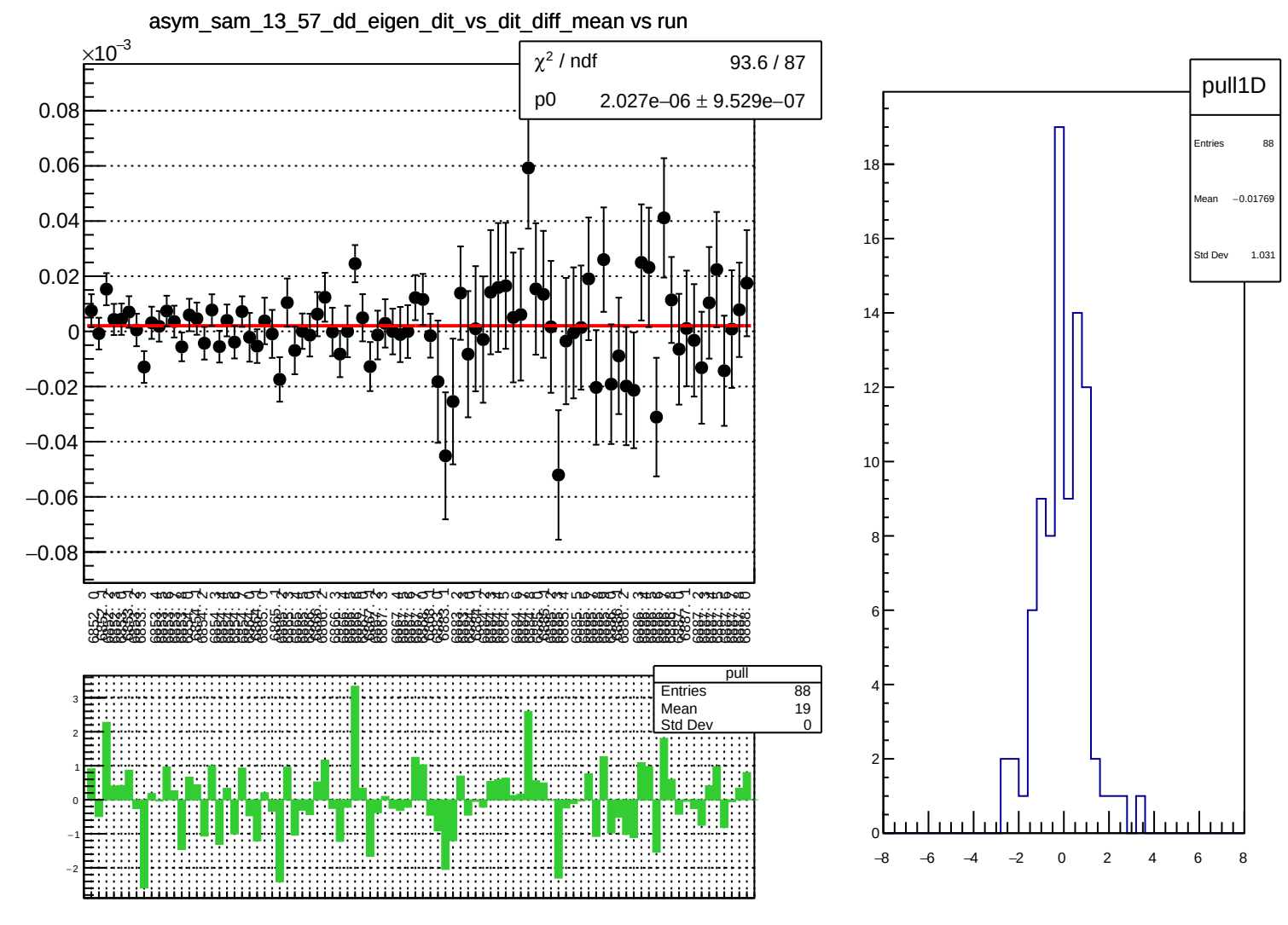

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.86 / 87
p0 0.03087 ± 0.03098
pull
Entries 88
Mean −83.4
Std Dev 0

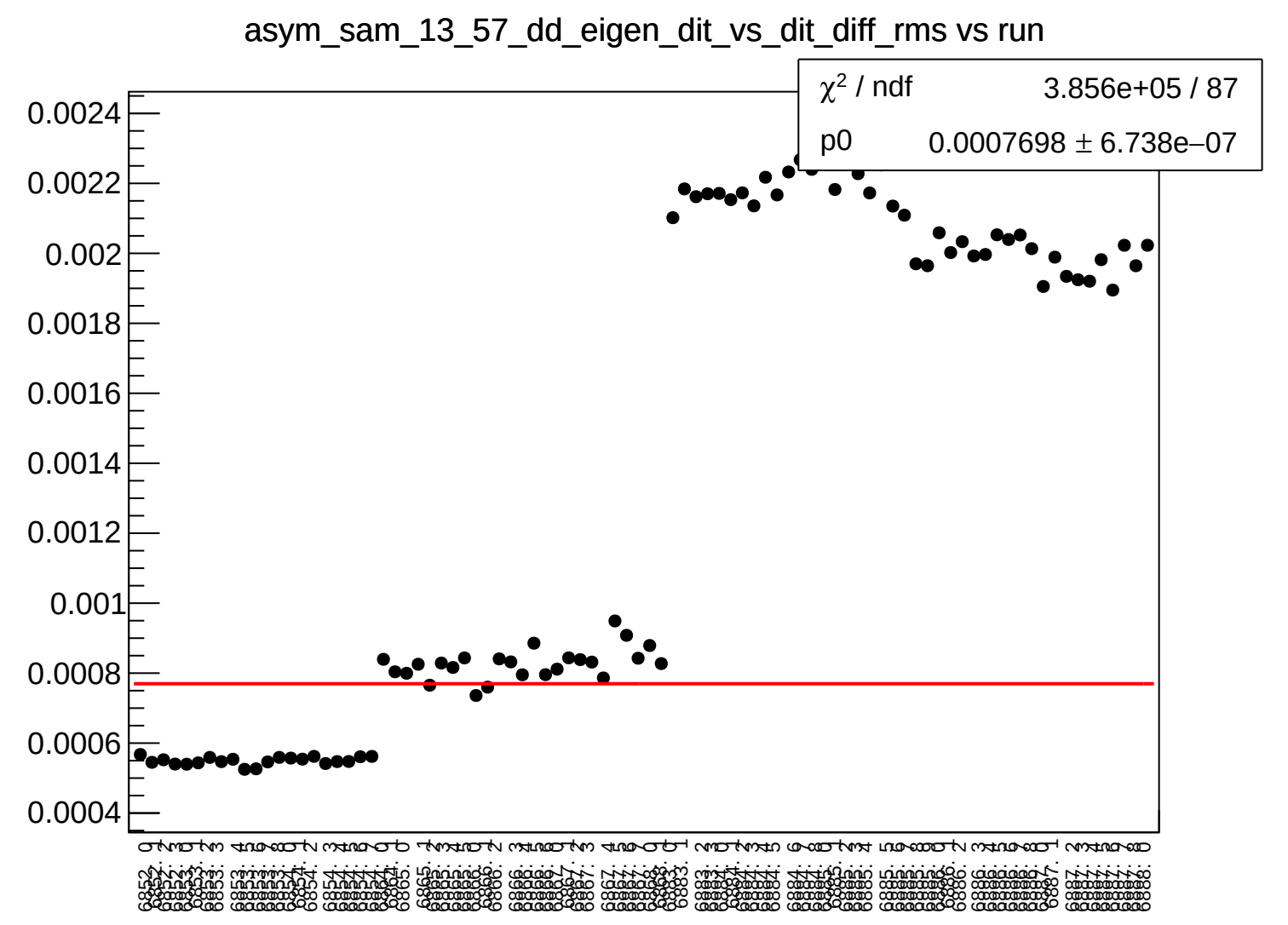

pull1D
Entries 88
Mean 0.03893
Std Dev 1.004

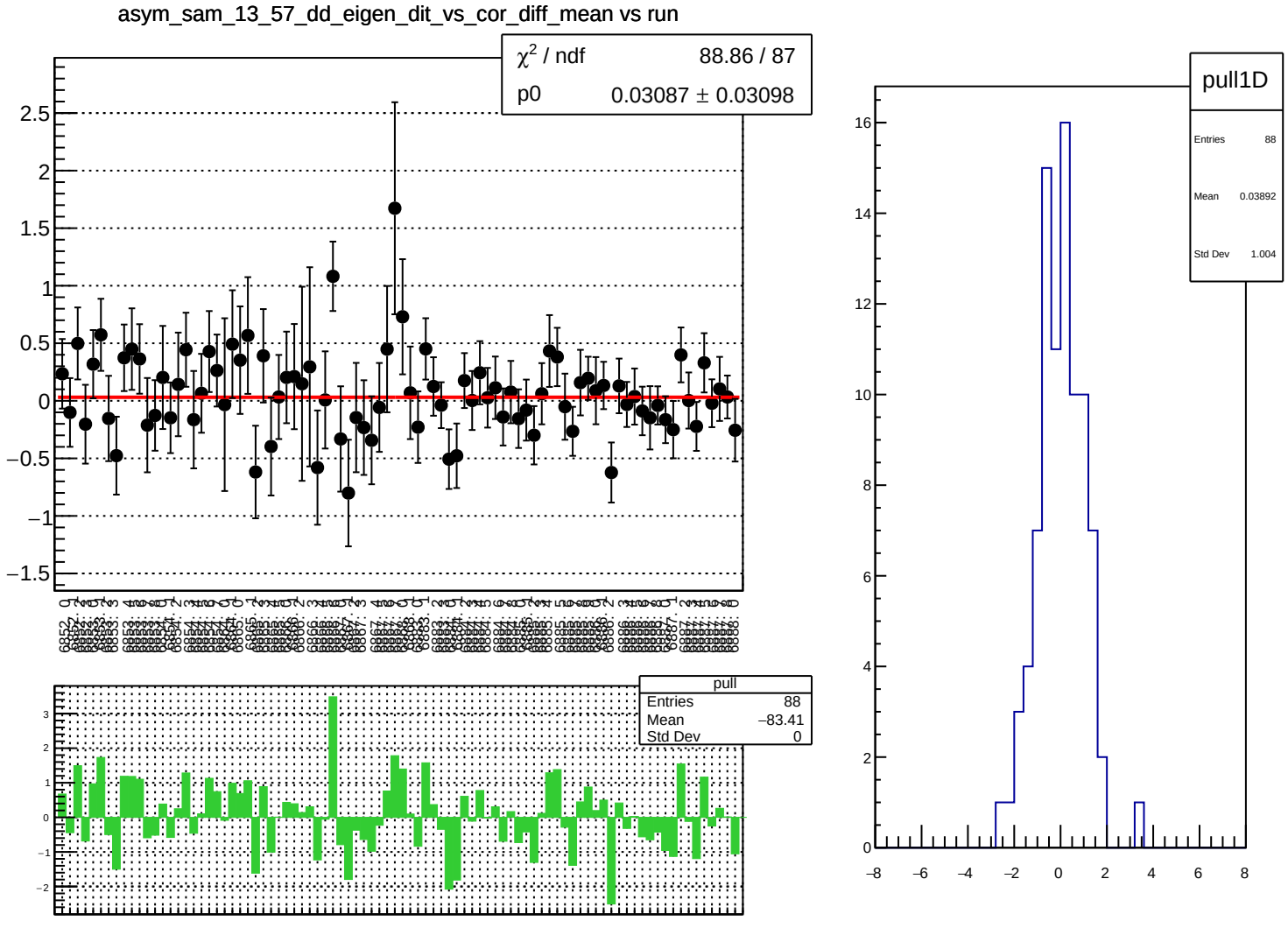

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.421e+05 / 87
p0 27.26 ± 0.02191
100
90
80
70
60
50
40
30
20

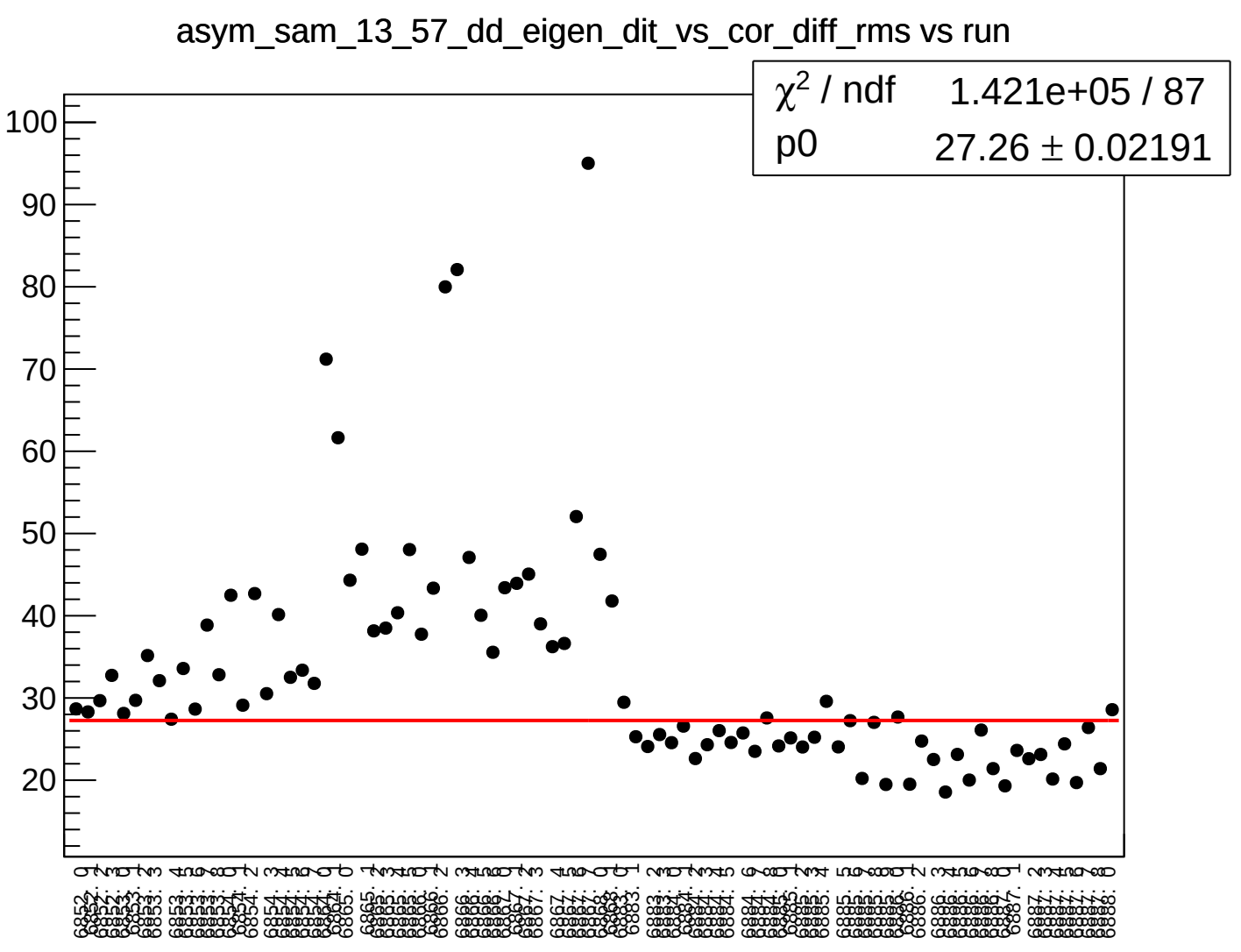

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.86 / 87
p0 0.03087 ± 0.03098
pull
Entries 88
Mean −83.4
Std Dev 0
pull1D
Entries 88
Mean 0.03893
Std Dev 1.004

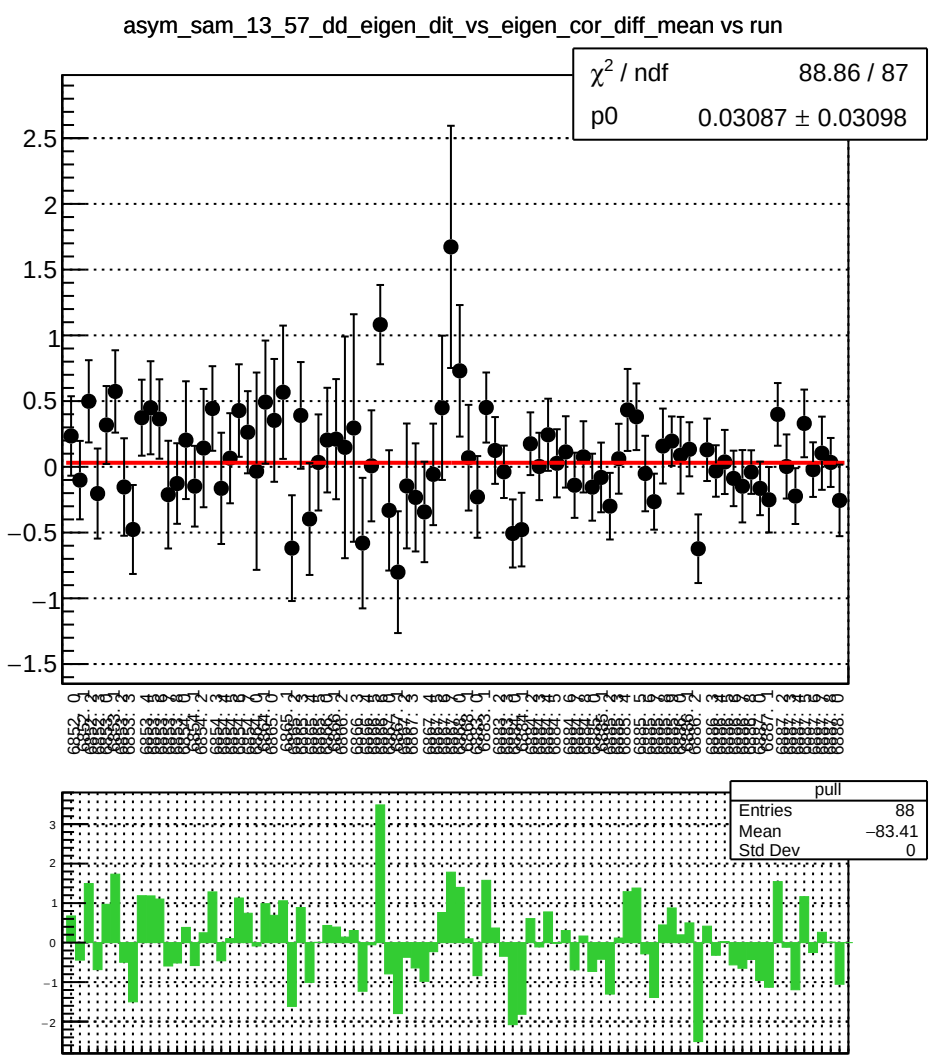

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.421e+05 / 87
p0 27.26 ± 0.02191
100
90
80
70
60
50
40
30
20

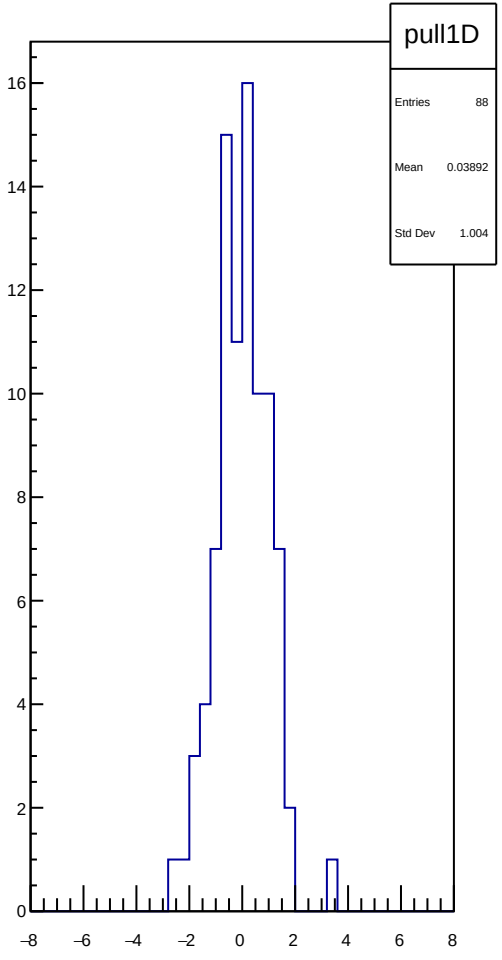

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.6 / 87
p0 2.027e−06 ± 9.529e−07
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 88
Mean 19
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01769
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

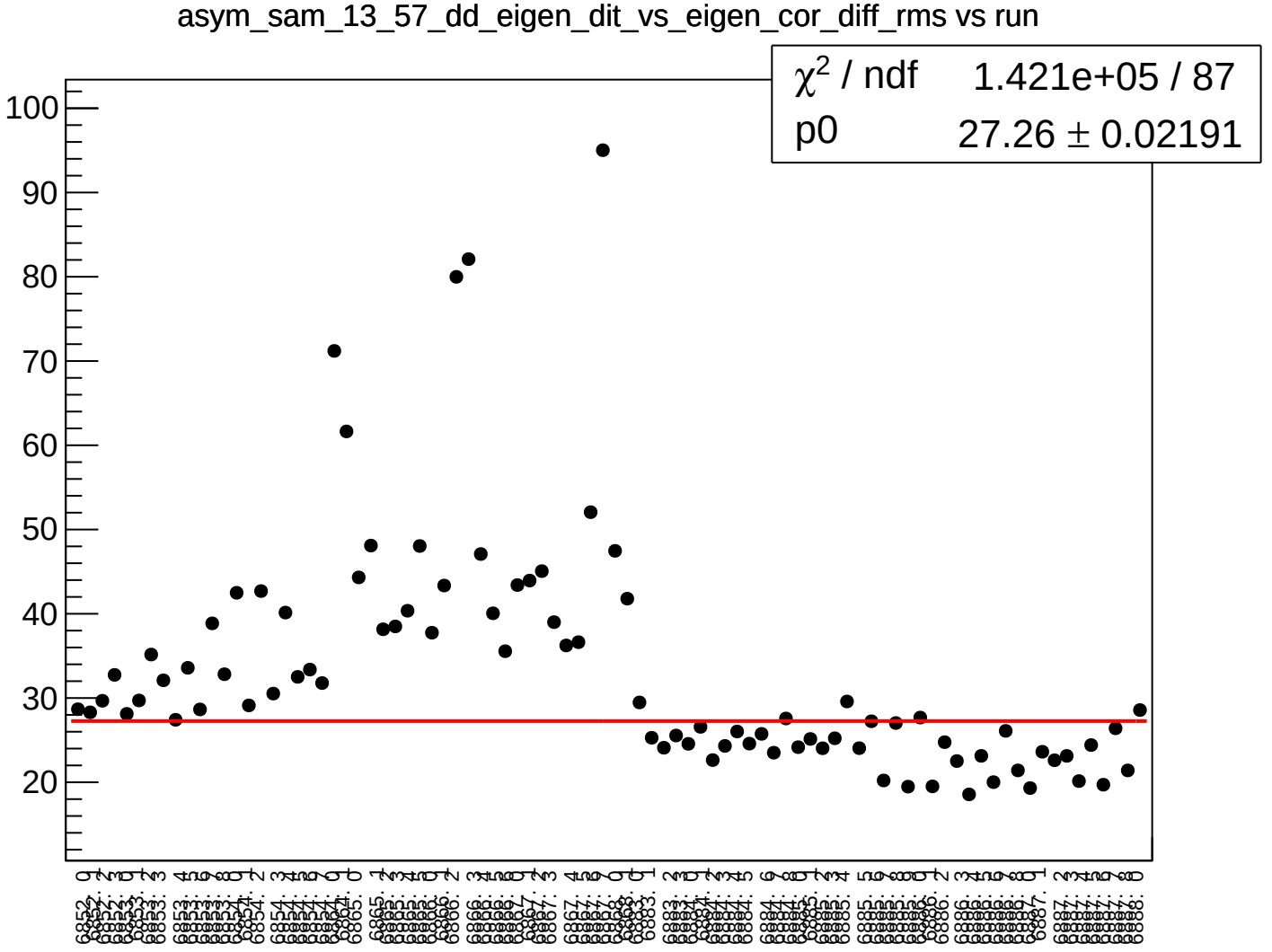

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.856e+05 / 87
p0 0.0007698 ± 6.738e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

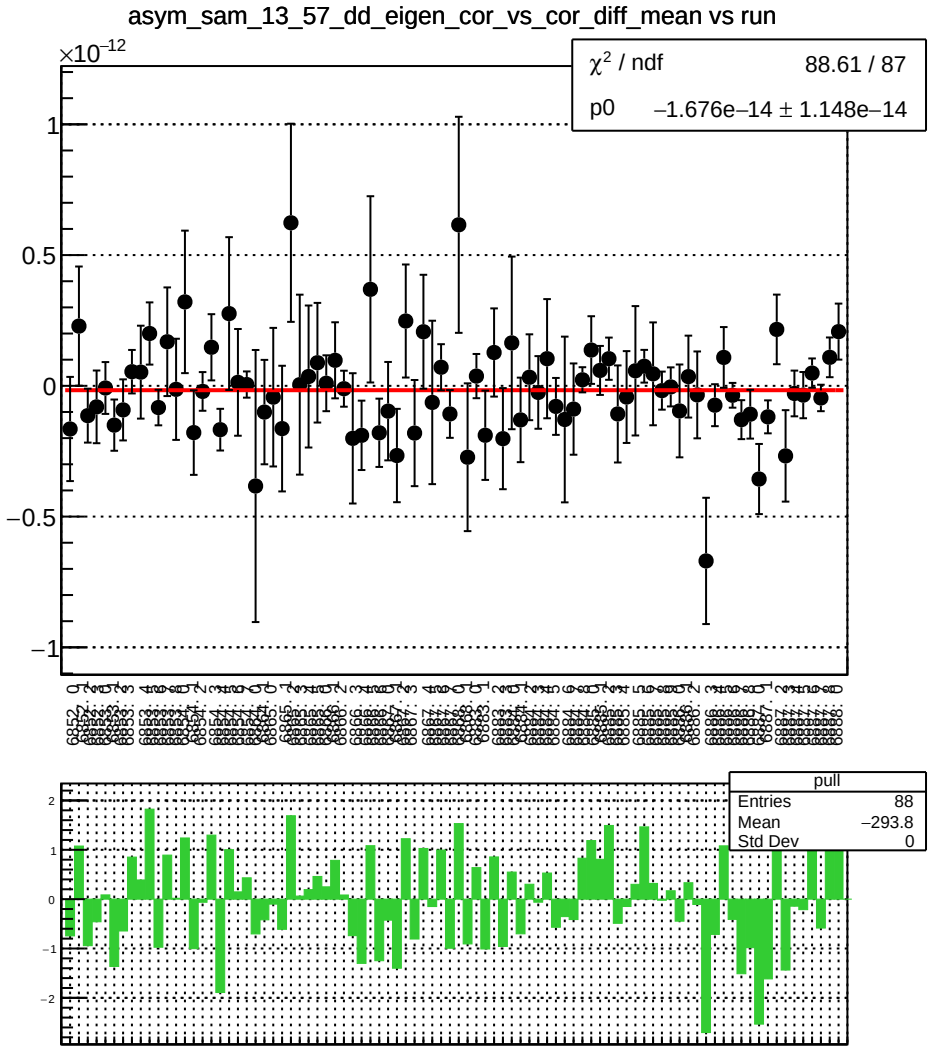

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.86 / 87
p0 0.03087 ± 0.03098
pull
Entries 88
Mean −83.41
Std Dev 0
pull1D
Entries 88
Mean 0.03892
Std Dev 1.004

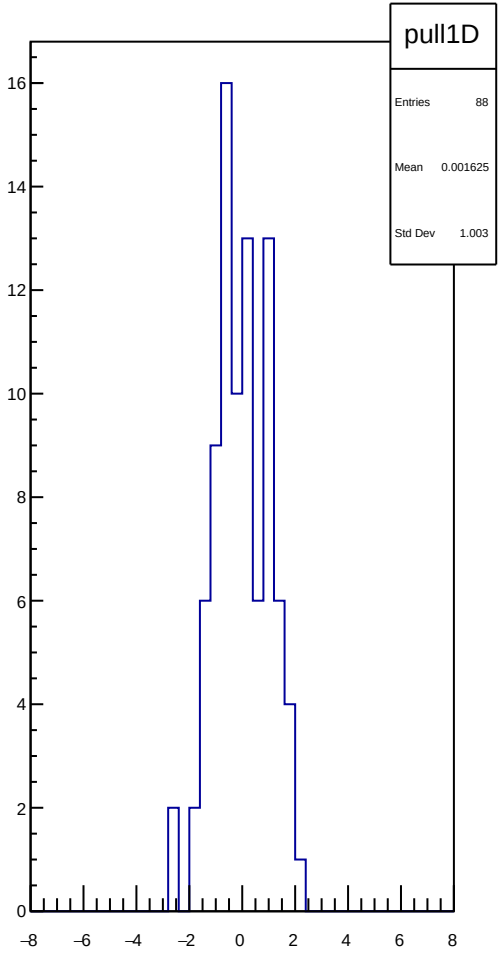

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.421e+05 / 87
p0 27.26 ± 0.02191
100
90
80
70
60
50
40
30
20

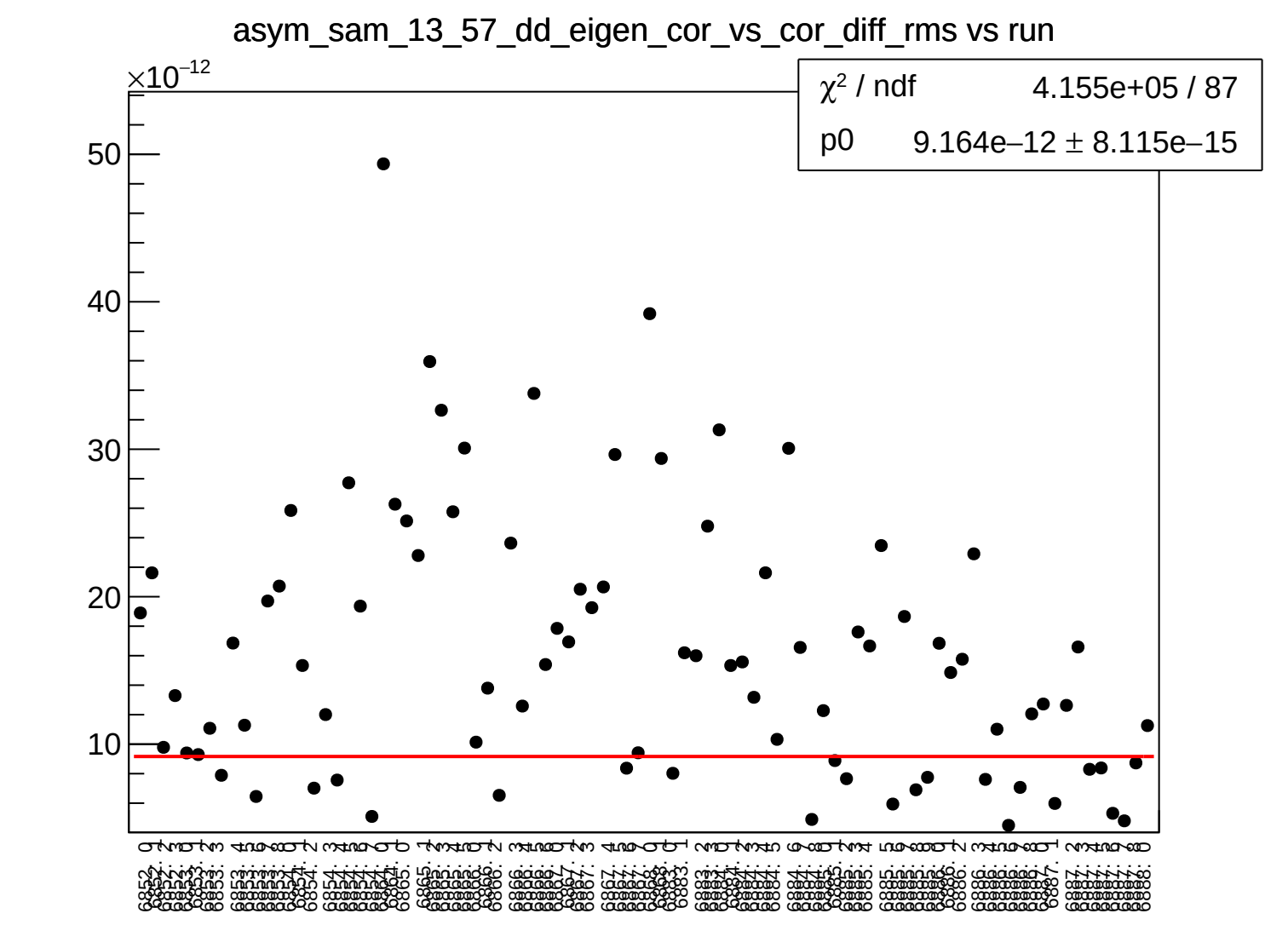

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.86 / 87
p0 0.03087 ± 0.03098
pull
Entries 88
Mean −83.41
Std Dev 0

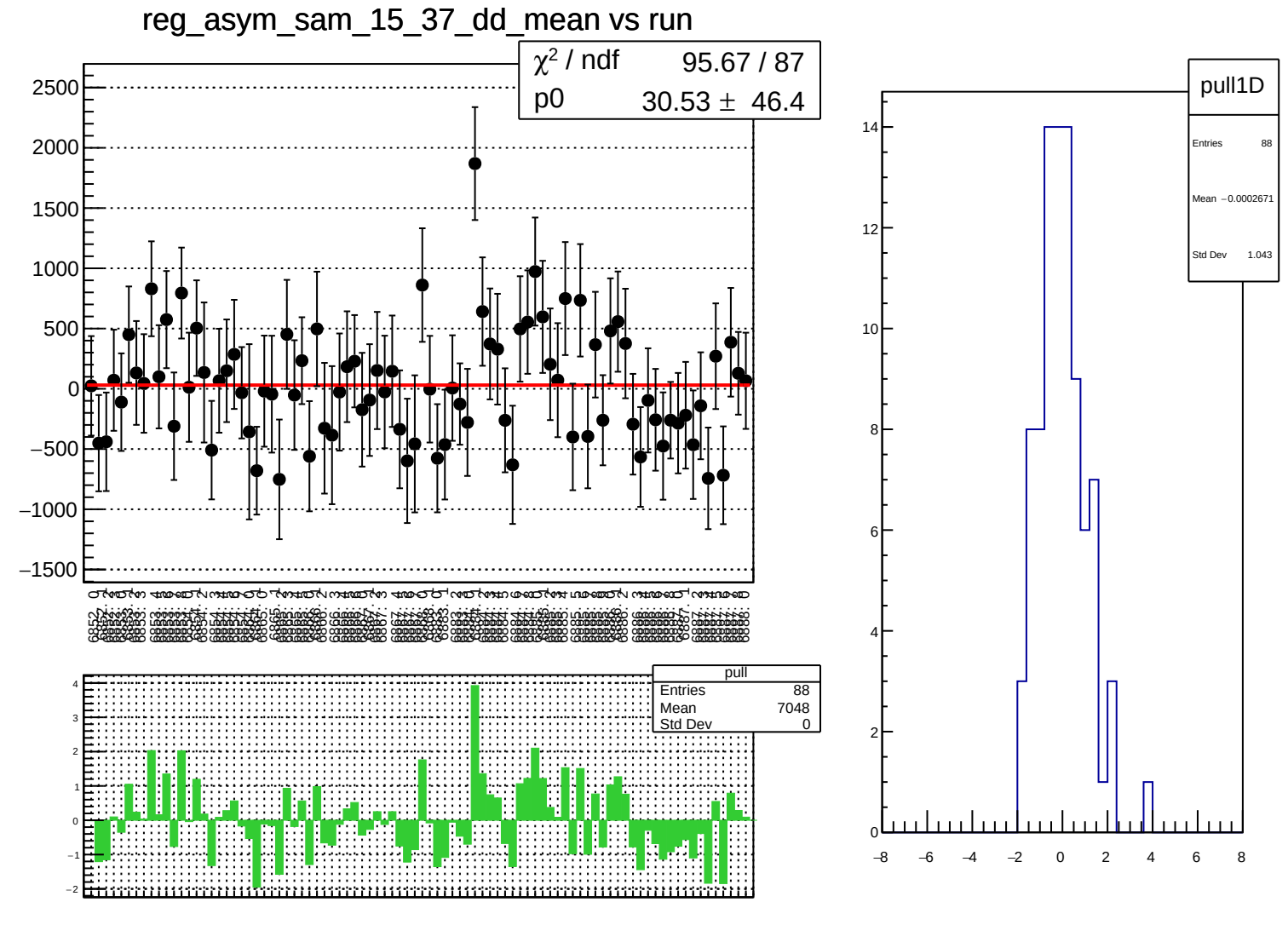

pull1D
Entries 88
Mean 0.03892
Std Dev 1.004

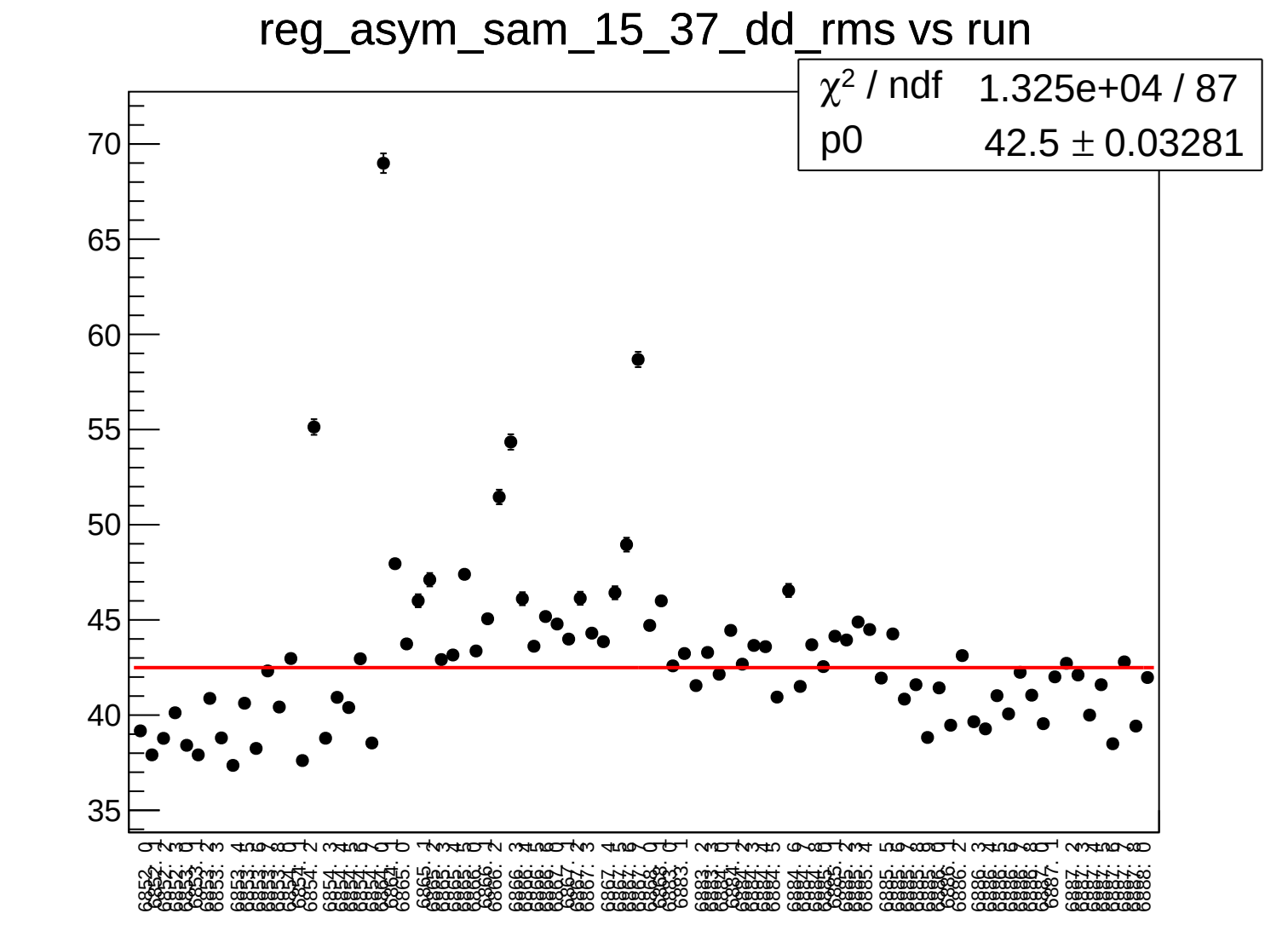

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.421e+05 / 87
p0 27.26 ± 0.02191
100
90
80
70
60
50
40
30
20

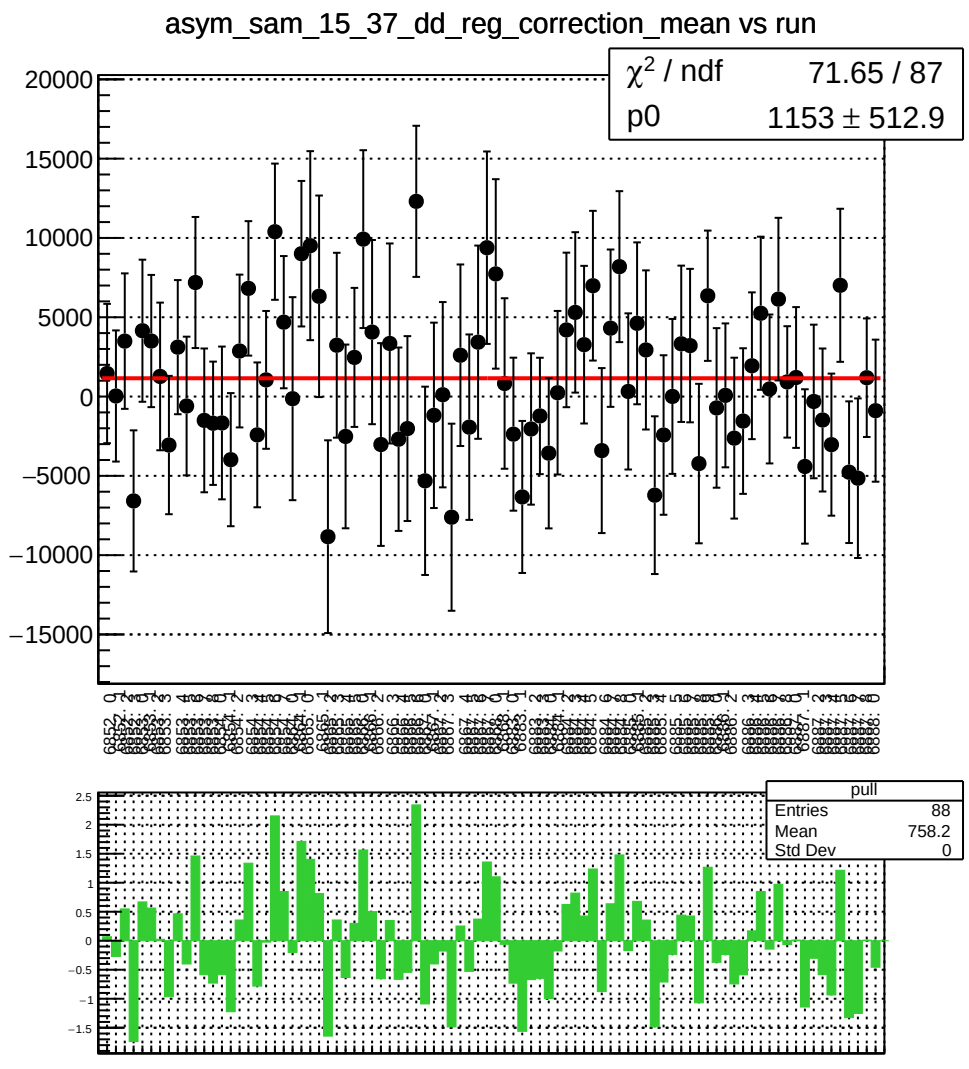

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.61 / 87
p0 −1.676e−14 ± 1.148e−14
pull
Entries 88
Mean −293.8
Std Dev 0

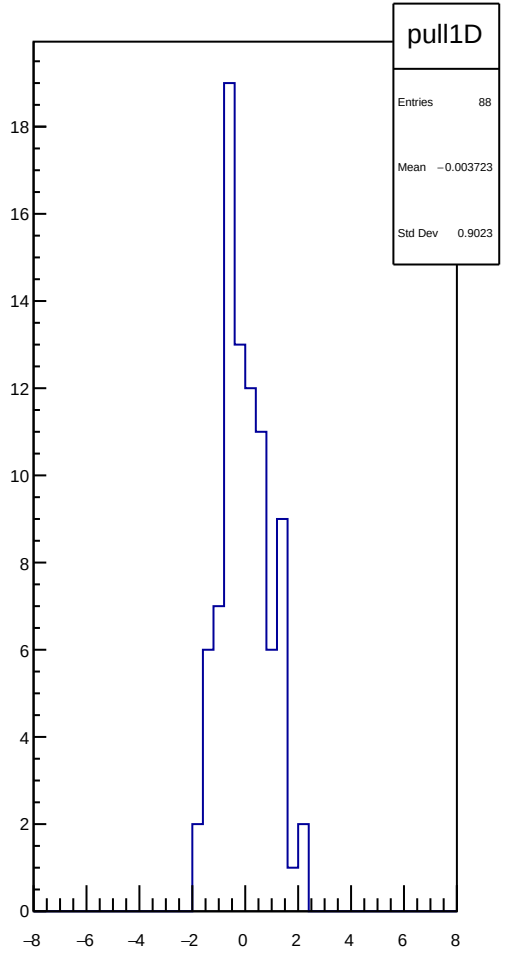

pull1D
Entries 88
Mean 0.001625
Std Dev 1.003

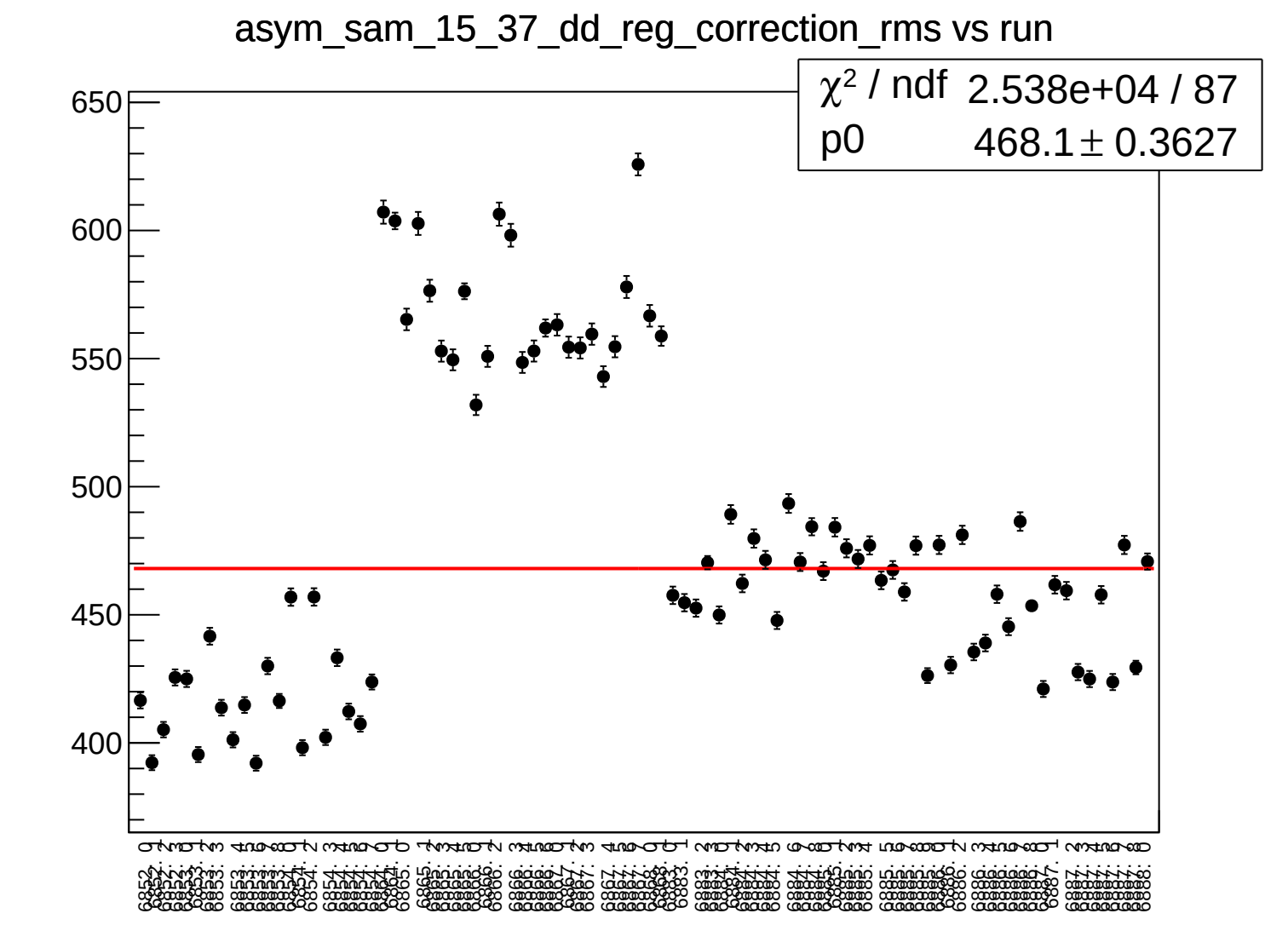

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.155e+05 / 87
p0 9.164e−12 ± 8.115e−15
50
40
30
20
10

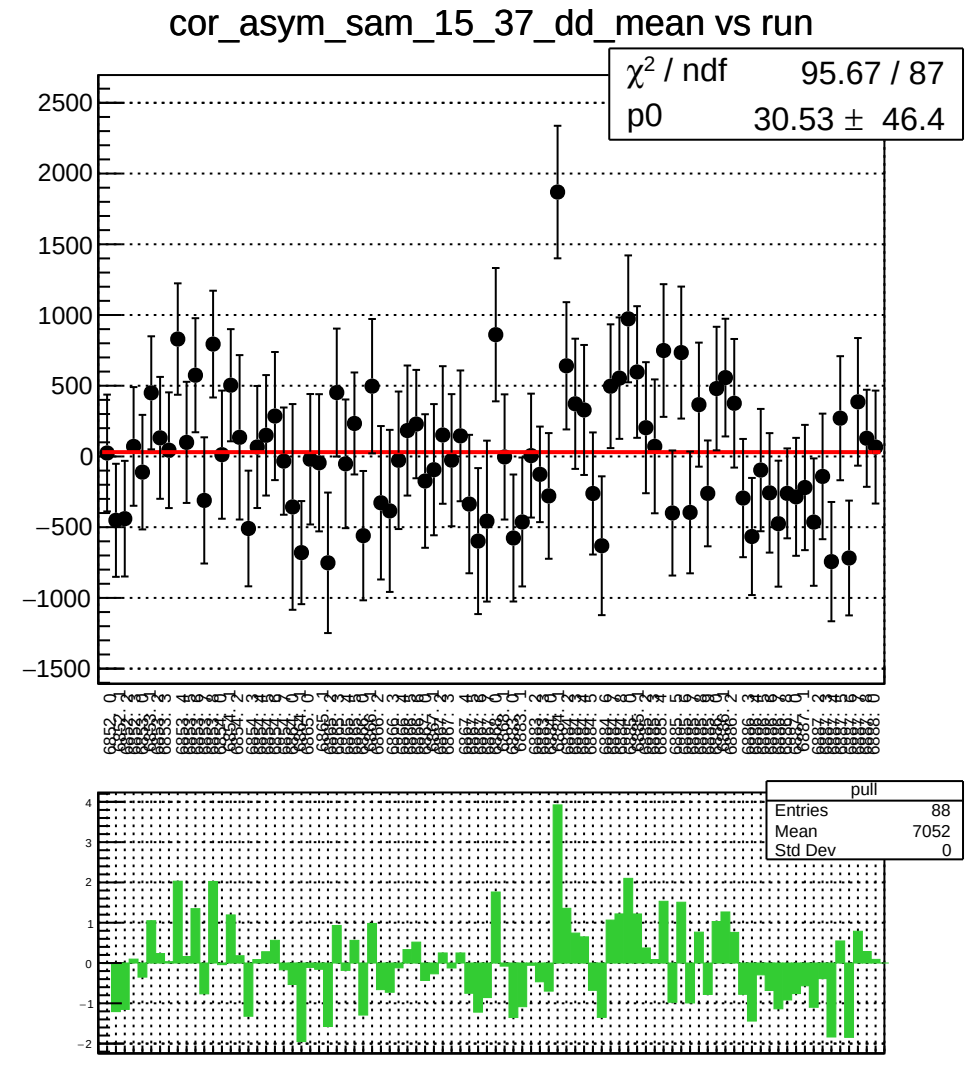

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 95.67 / 87
p0 30.53 ± 46.4
pull
Entries 88
Mean 7048
Std Dev 0
pull1D
Entries 88
Mean −0.0002671
Std Dev 1.043

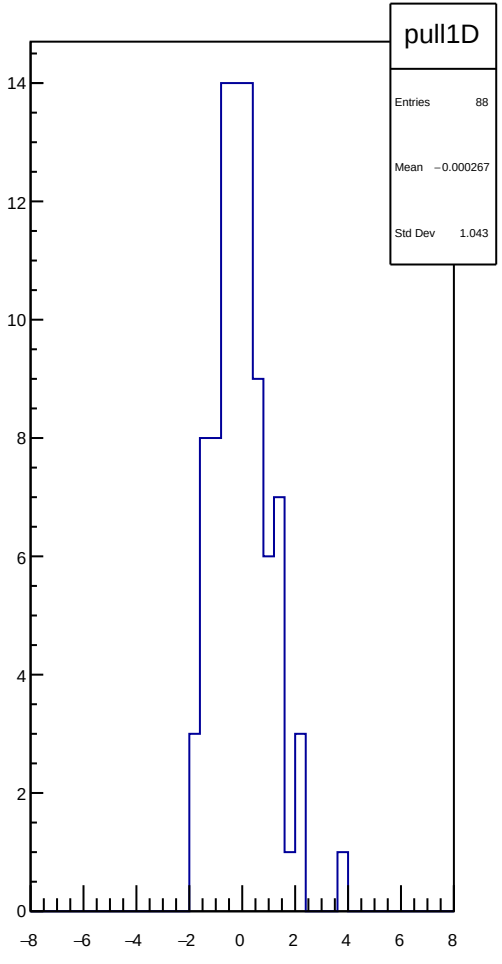

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.325e+04 / 87
p0 42.5 ± 0.03281
70
65
60
55
50
45
40
35

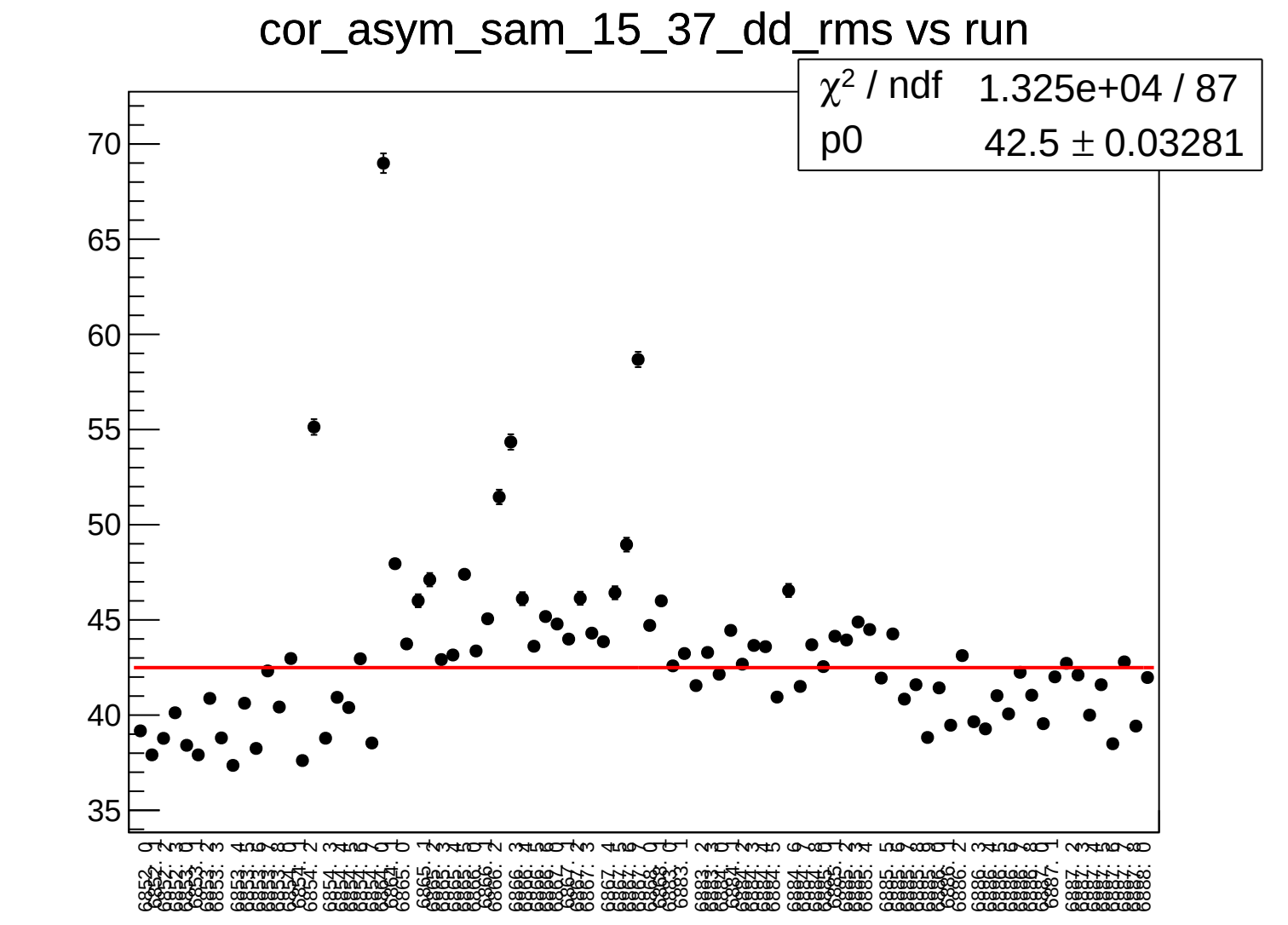

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 71.65 / 87
p0 1153 ± 512.9
pull
Entries 88
Mean 758.2
Std Dev 0

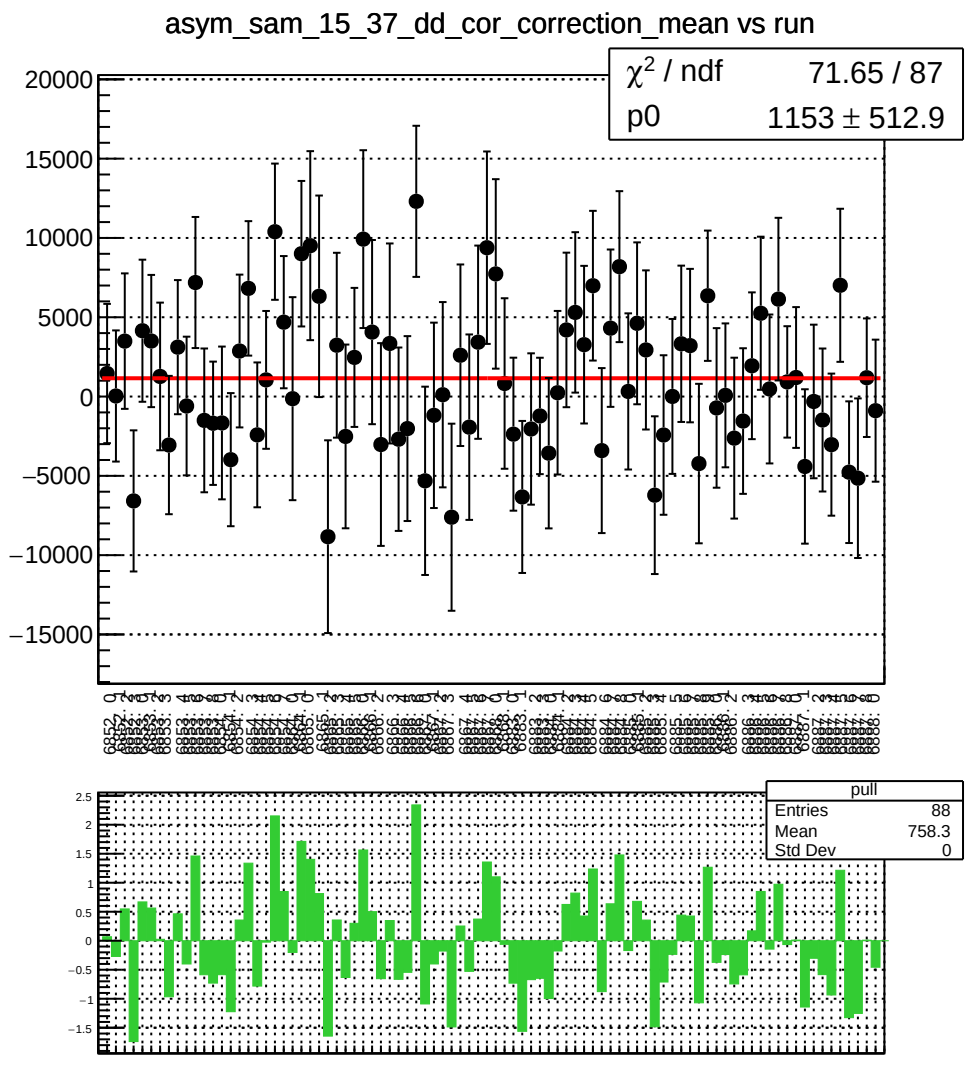

pull1D
Entries 88
Mean −0.003723
Std Dev 0.9023

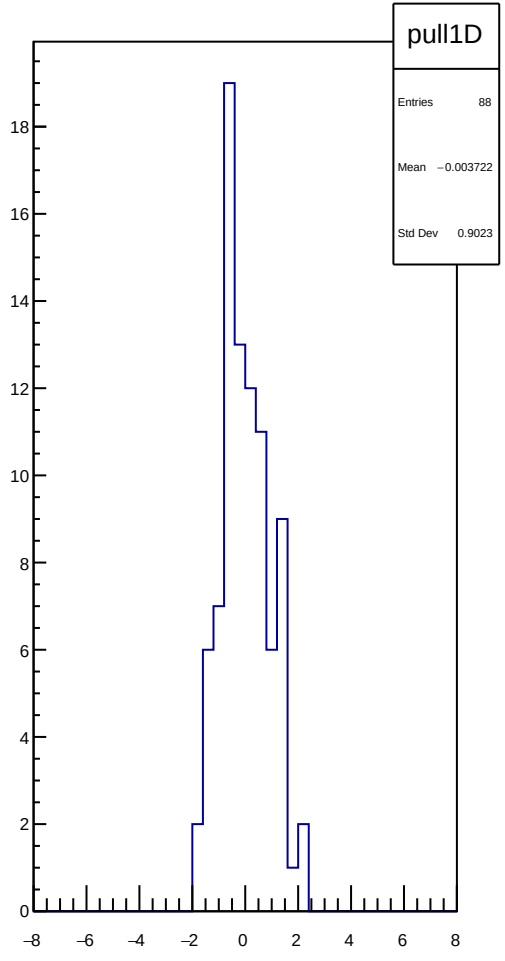

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 2.538e+04 / 87
p0 468.1 ± 0.3627
650
600
550
500
450
400

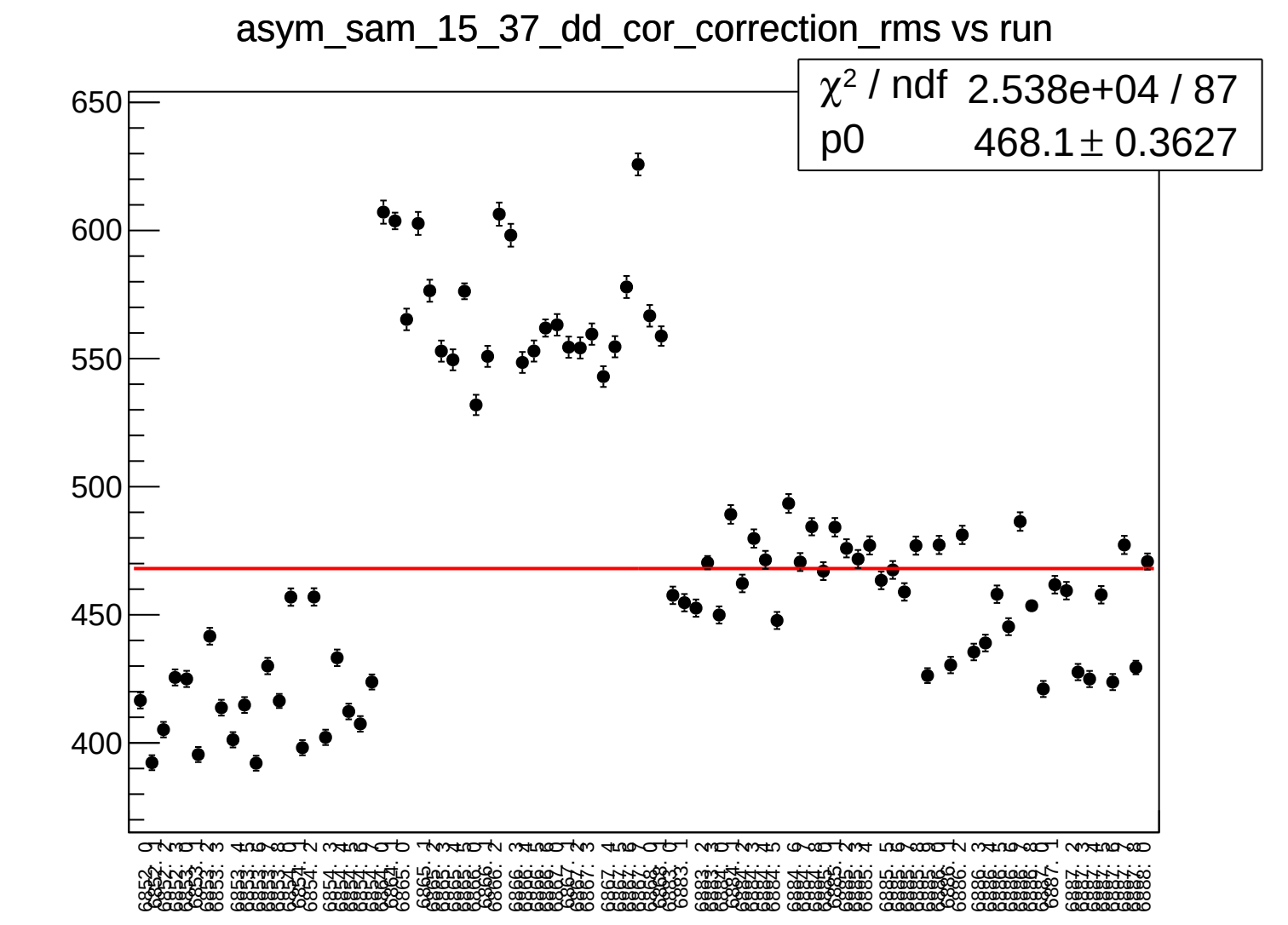

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 95.67 / 87
p0 30.53 ± 46.4
pull
Entries 88
Mean 7052
Std Dev 0

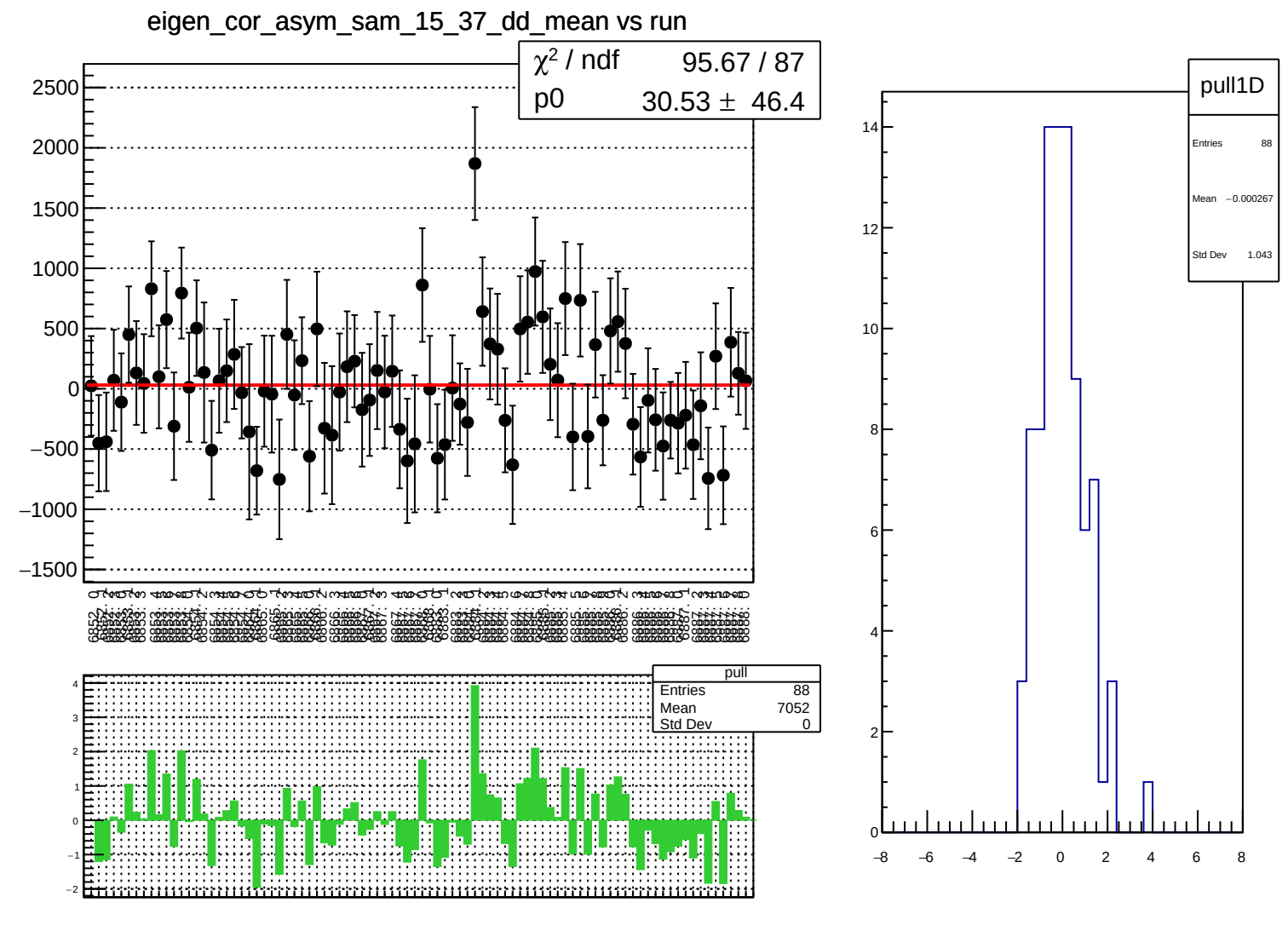

pull1D
Entries 88
Mean −0.000267
Std Dev 1.043

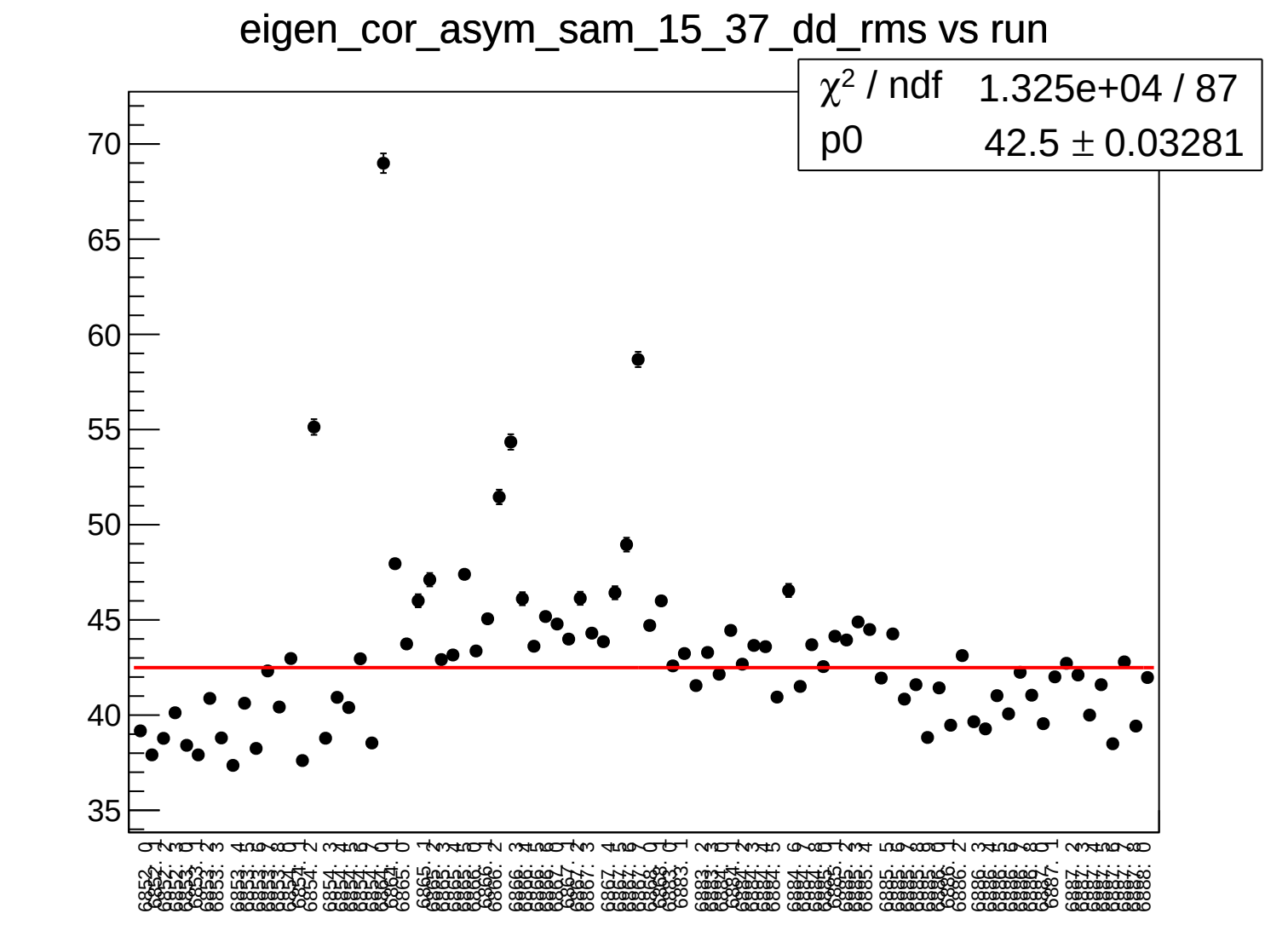

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.325e+04 / 87
p0 42.5 ± 0.03281
70
65
60
55
50
45
40
35

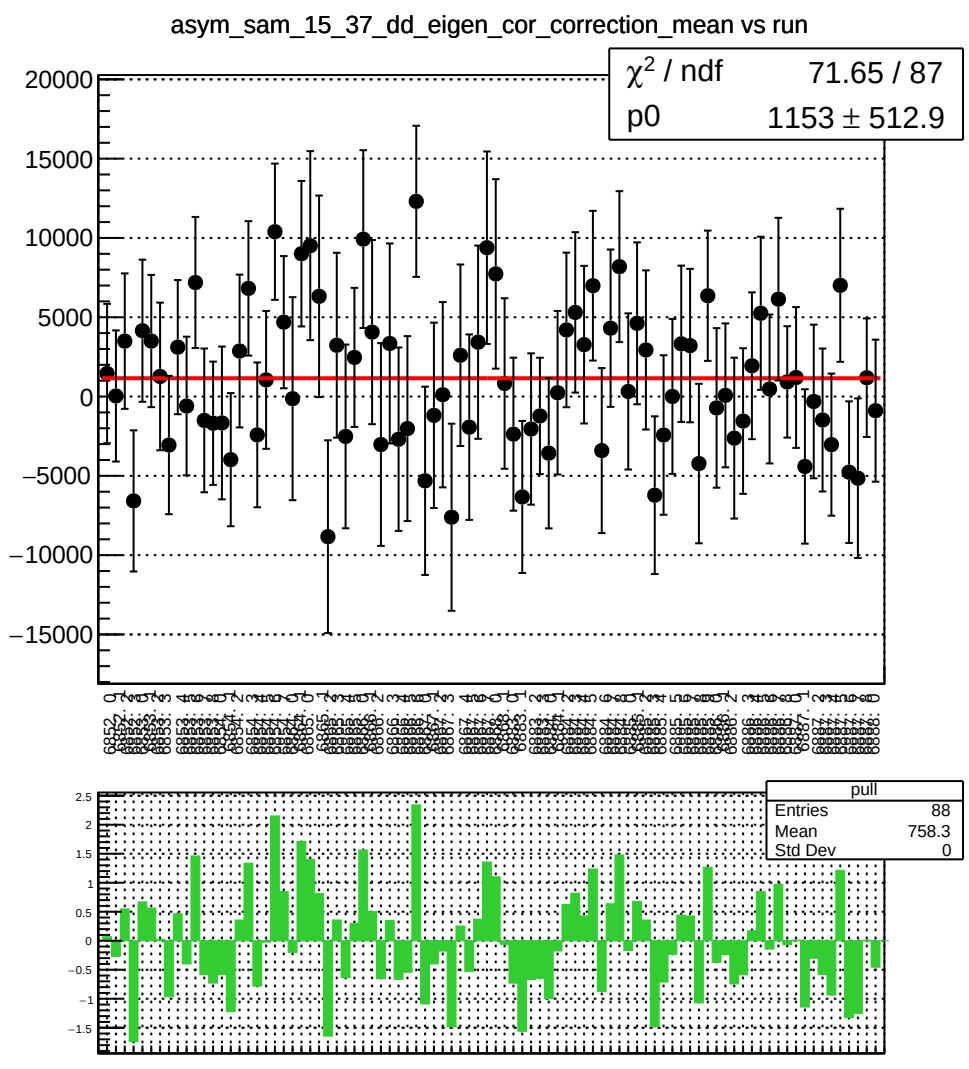

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 71.65 / 87
p0 1153 ± 512.9
pull
Entries 88
Mean 758.3
Std Dev 0

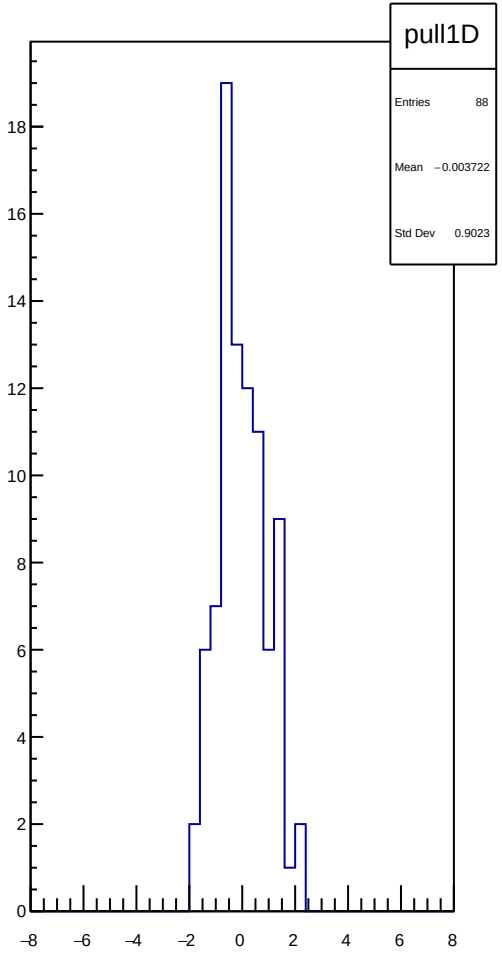

pull1D
Entries 88
Mean −0.003722
Std Dev 0.9023

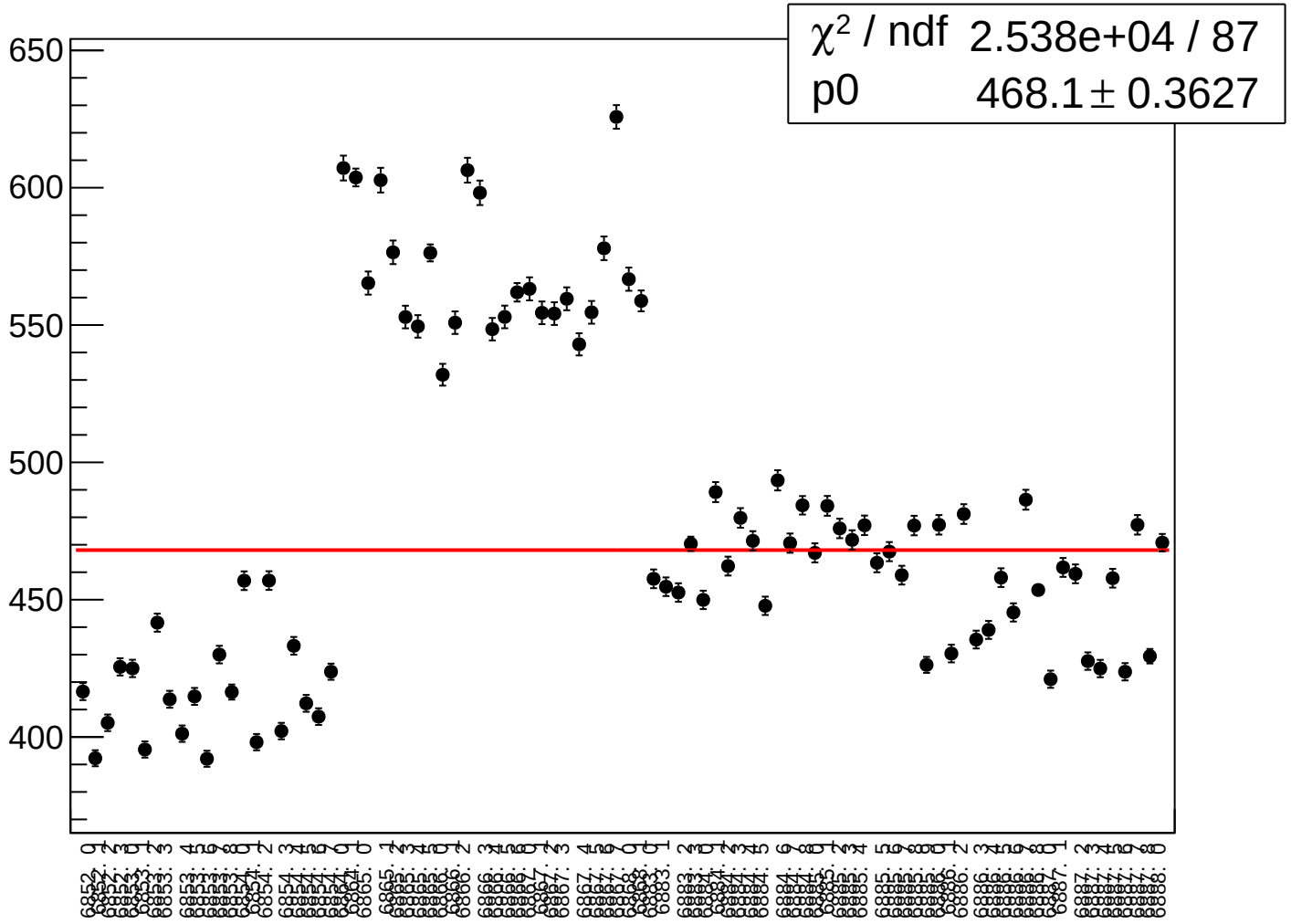

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 2.538e+04 / 87
p0 468.1 ± 0.3627
650
600
550
500
450
400

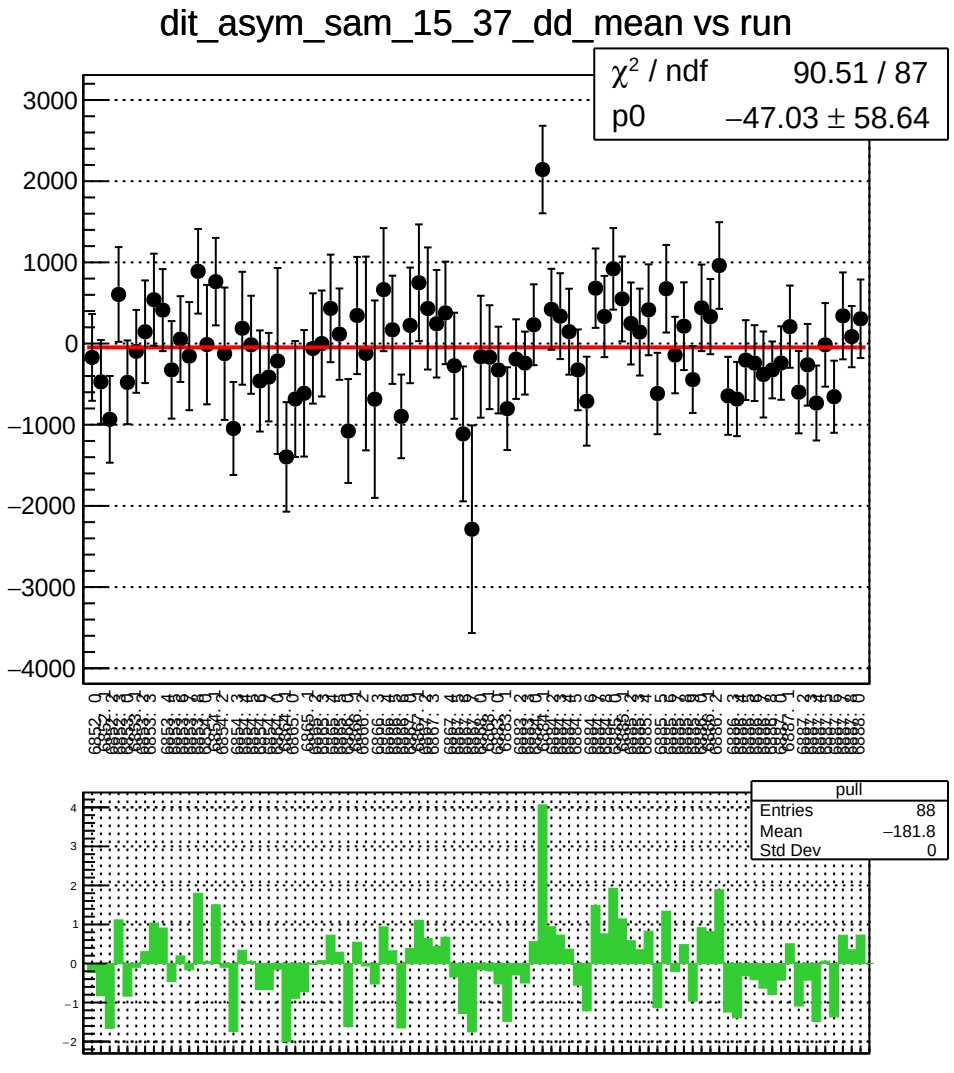

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 95.67 / 87
p0 30.53 ± 46.4
pull
Entries 88
Mean 7052
Std Dev 0
pull1D
Entries 88
Mean −0.000267
Std Dev 1.043

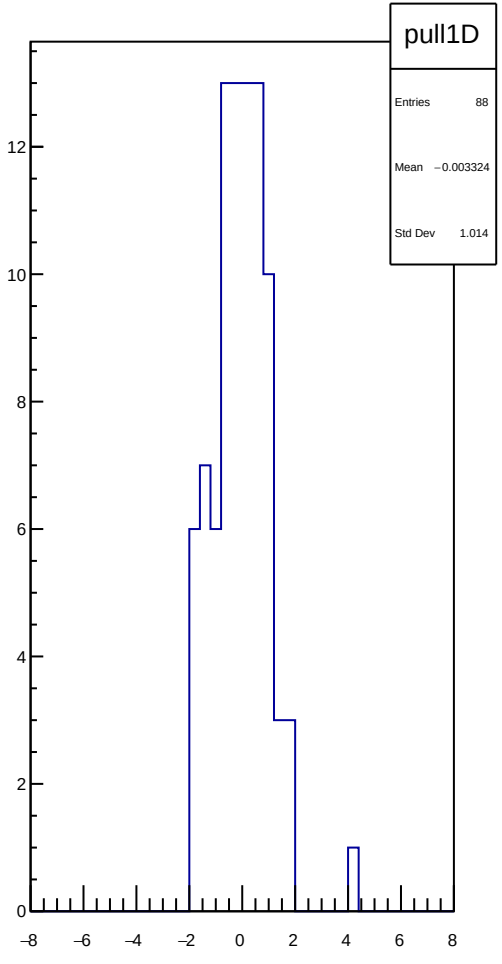

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.325e+04 / 87
p0 42.5 ± 0.03281
70
65
60
55
50
45
40
35

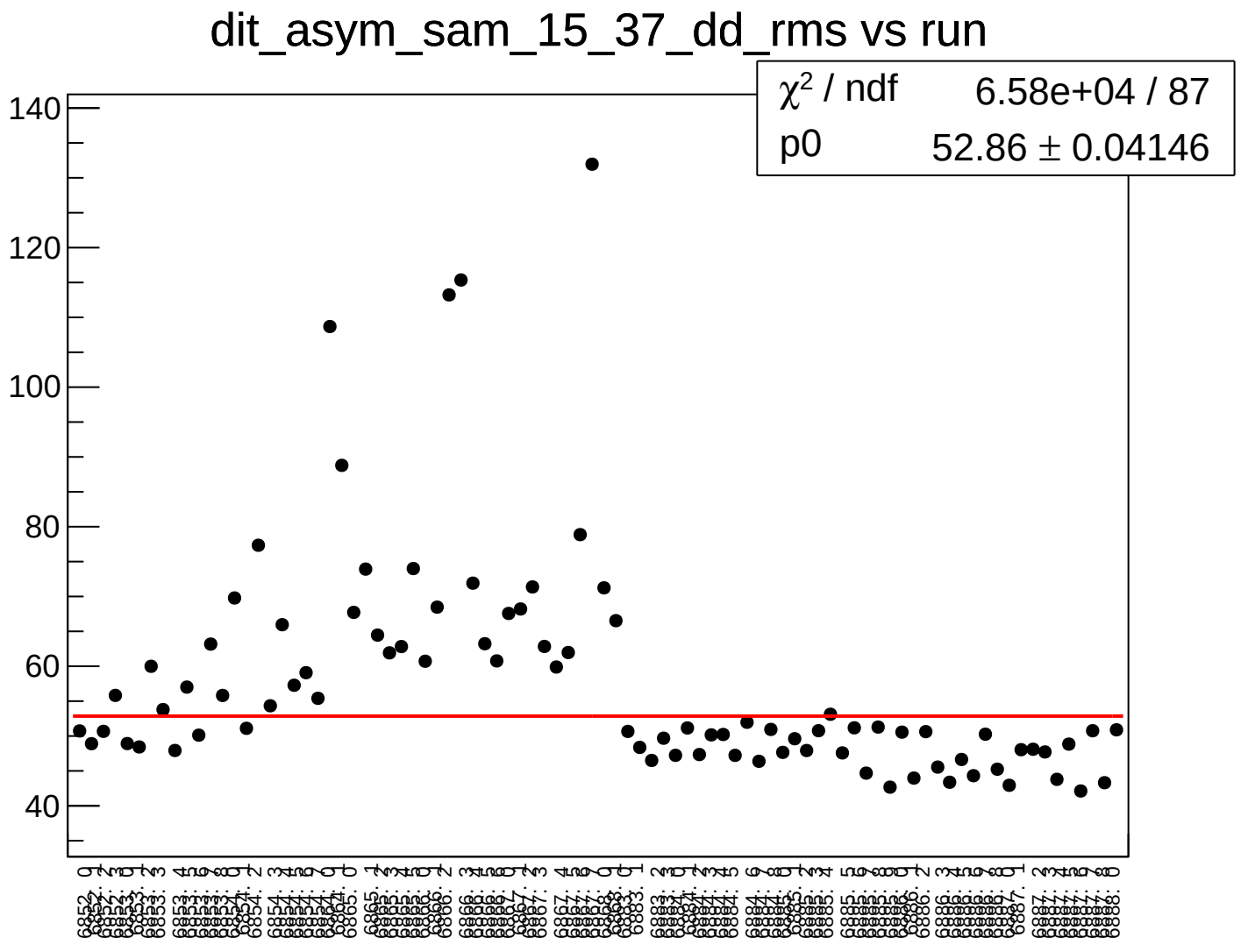

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.65 / 87
p0 1153 ± 512.9
pull
Entries 88
Mean 758.3
Std Dev 0

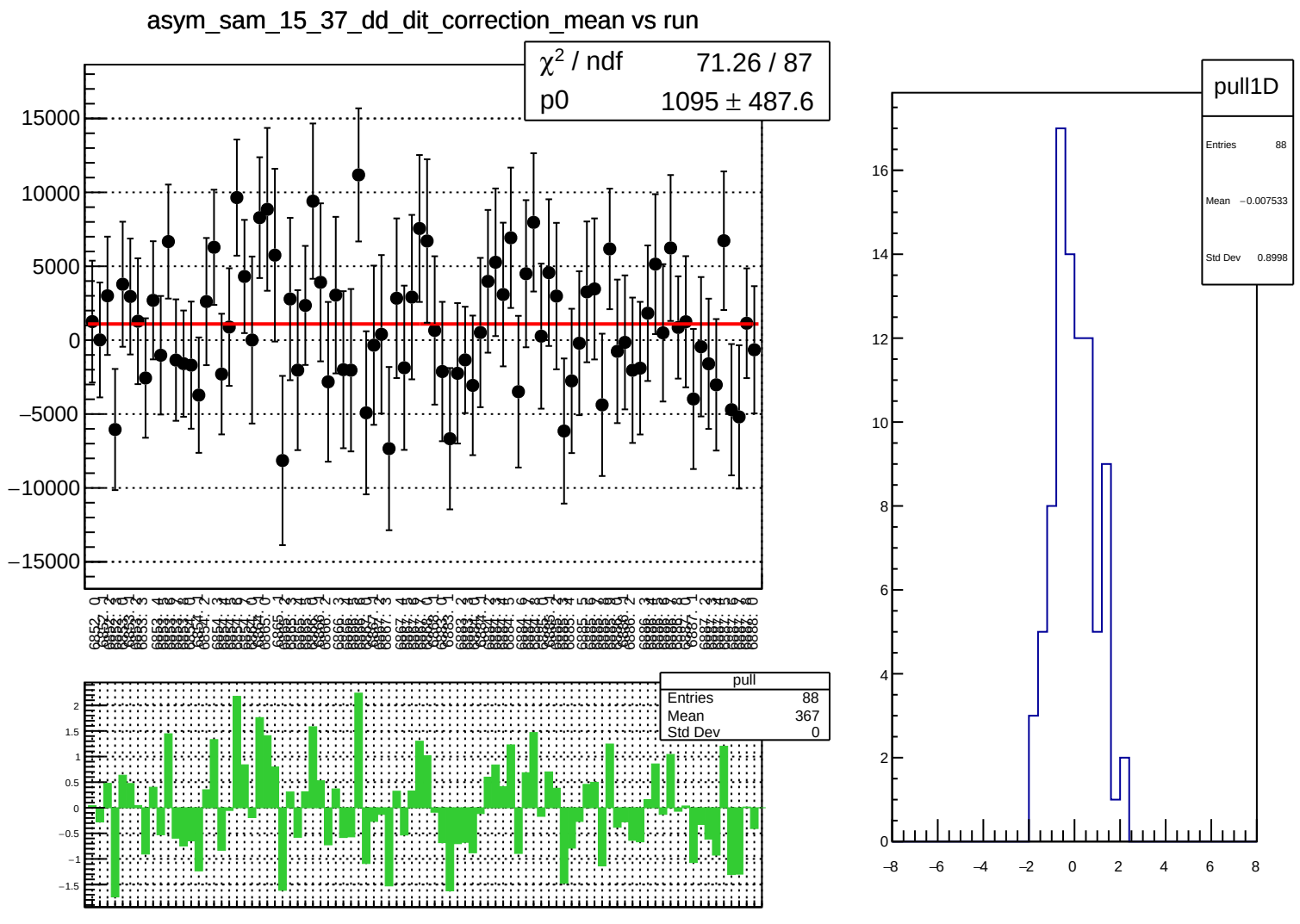

pull1D
Entries 88
Mean −0.003722
Std Dev 0.9023

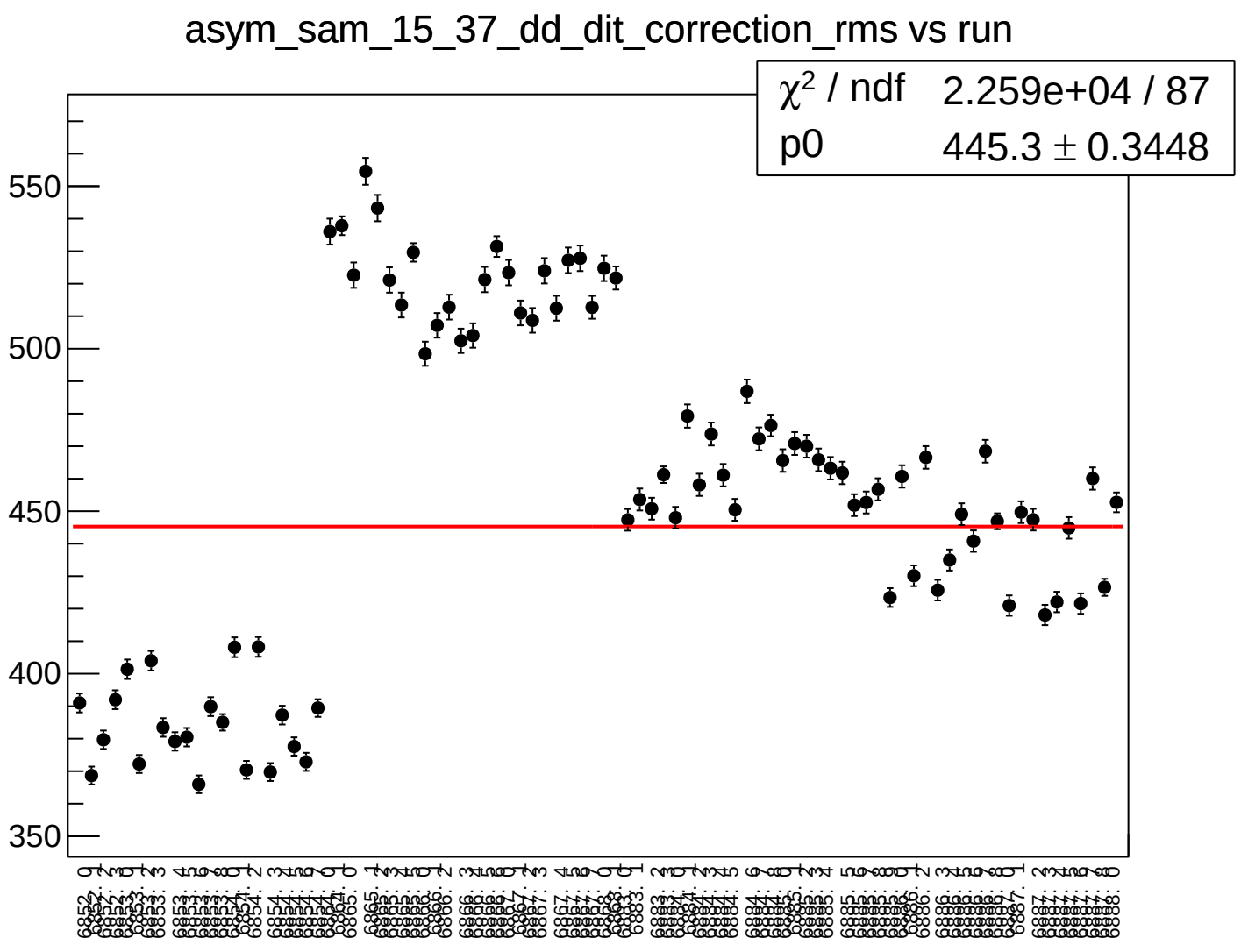

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.538e+04 / 87
p0 468.1 ± 0.3627
650
600
550
500
450
400

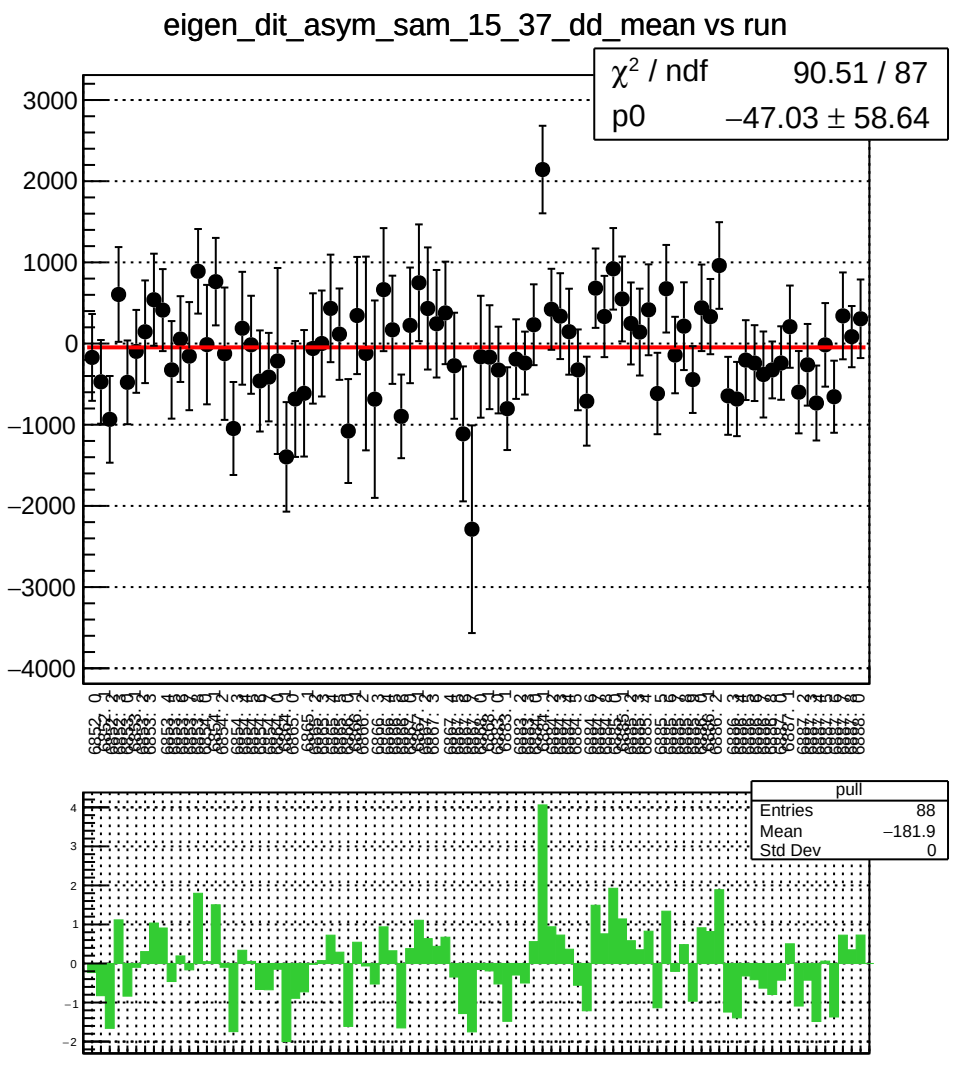

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 90.51 / 87
p0 −47.03 ± 58.64
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean −181.8
Std Dev 0
4
3
2
1
0
−1
−2

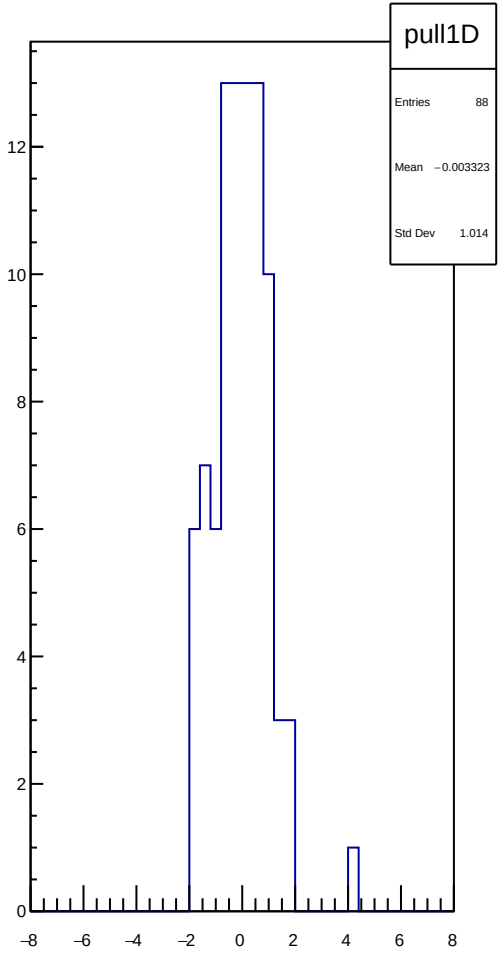

pull1D
Entries 88
Mean −0.003324
Std Dev 1.014
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

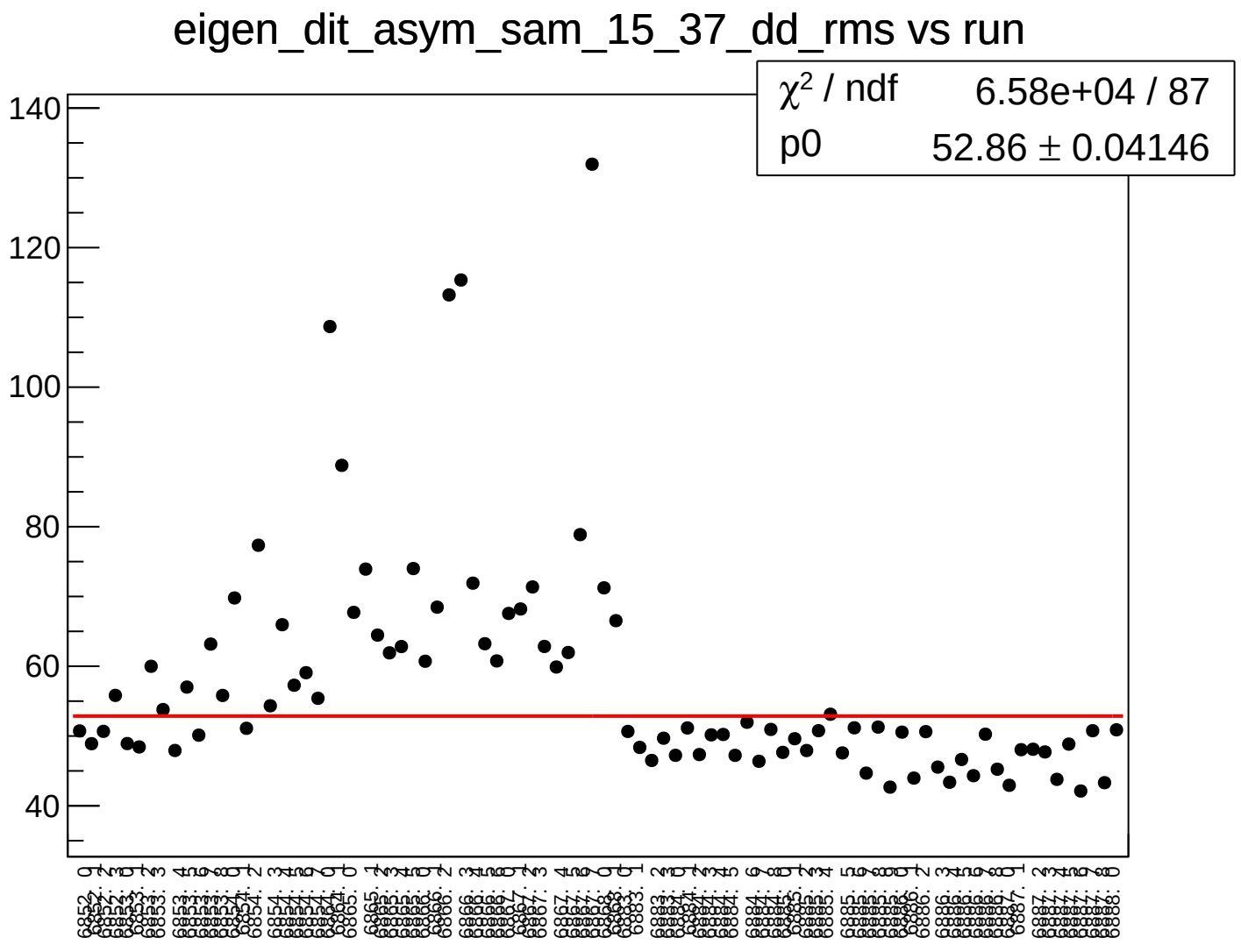

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 6.58e+04 / 87
p0 52.86 ± 0.04146
140
120
100
80
60
40

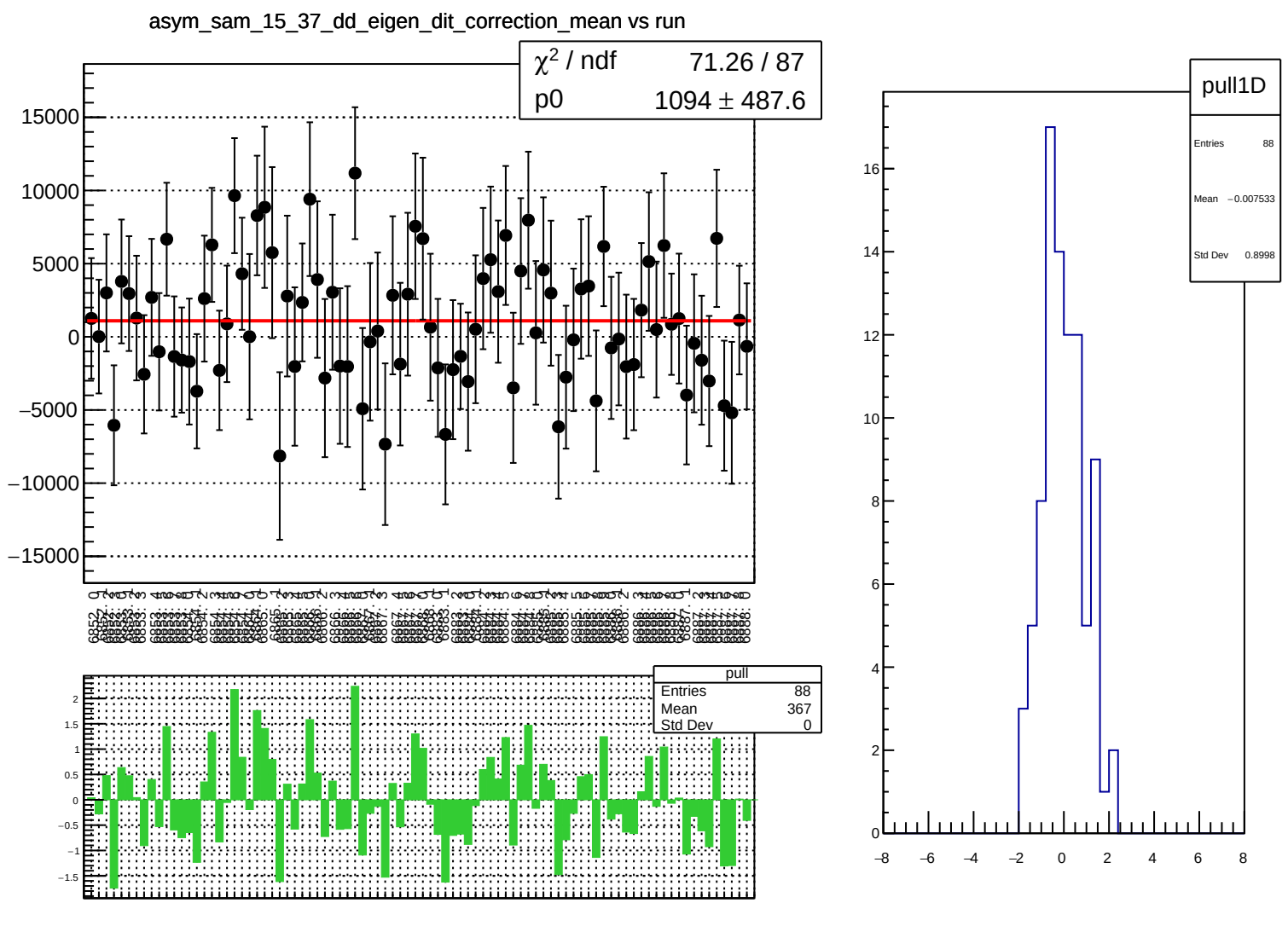

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 71.26 / 87
p0 1095 ± 487.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 367
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.007533
Std Dev 0.8998
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

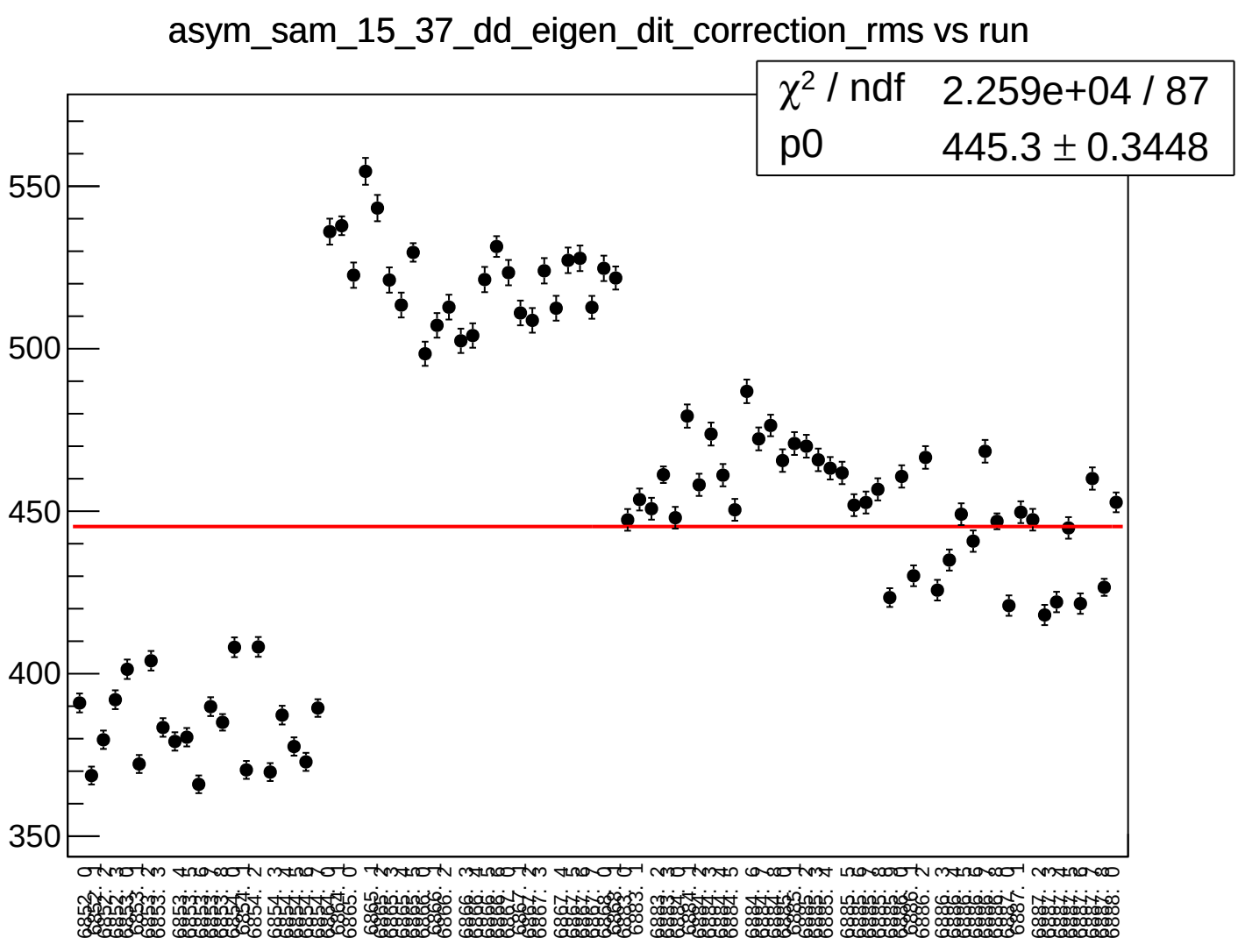

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 2.259e+04 / 87
p0 445.3 ± 0.3448
550
500
450
400
350

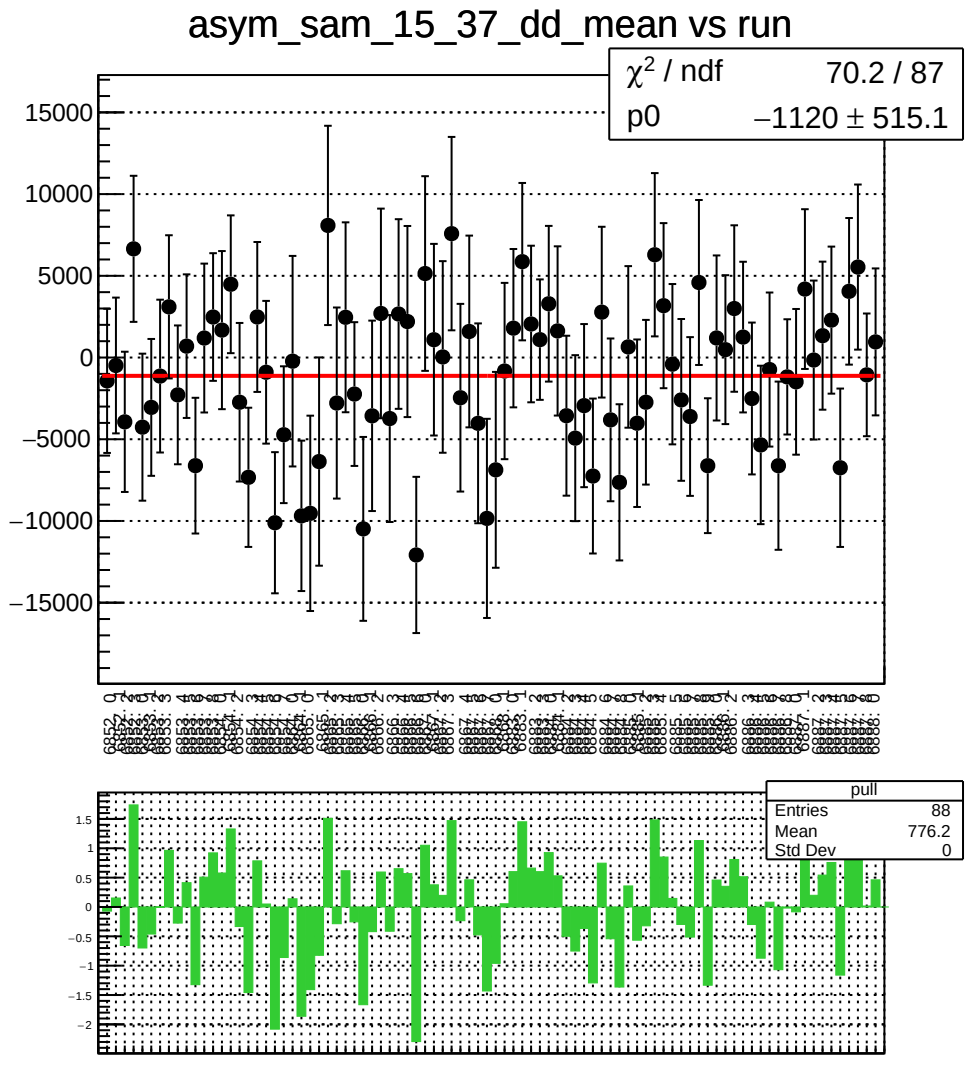

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 90.51 / 87
p0 −47.03 ± 58.64
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean −181.9
Std Dev 0
4
3
2
1
0
−1
−2

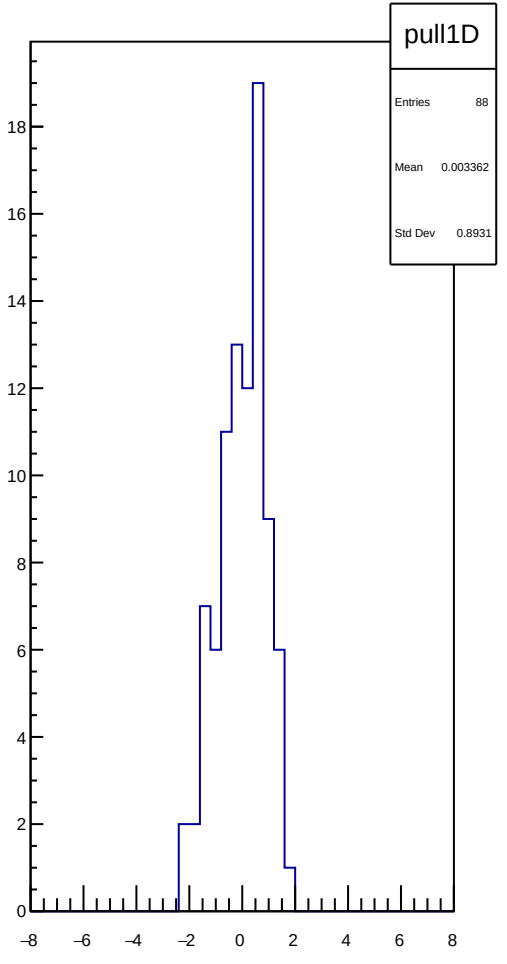

pull1D
Entries 88
Mean −0.003323
Std Dev 1.014
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

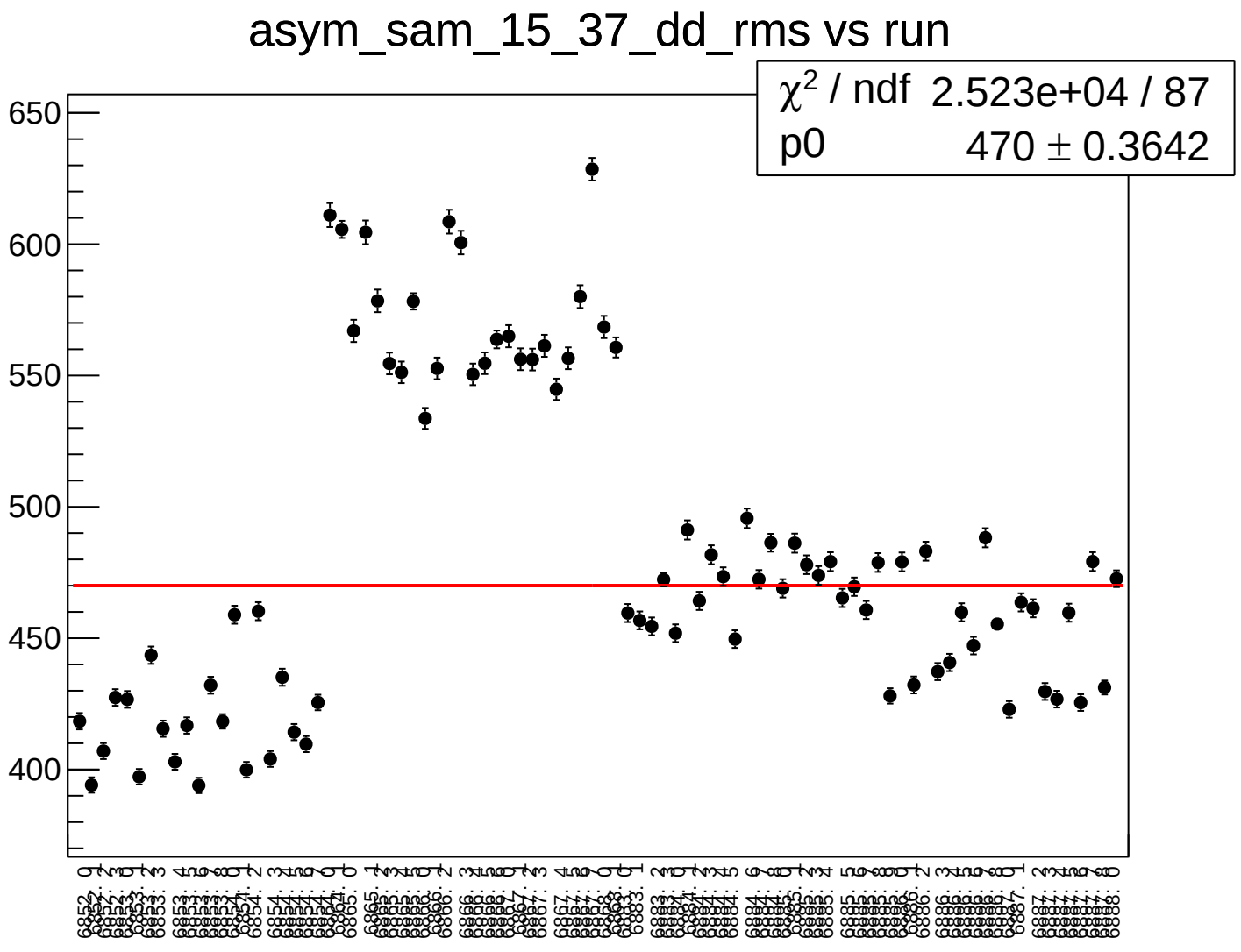

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 6.58e+04 / 87
p0 52.86 ± 0.04146
140
120
100
80
60
40

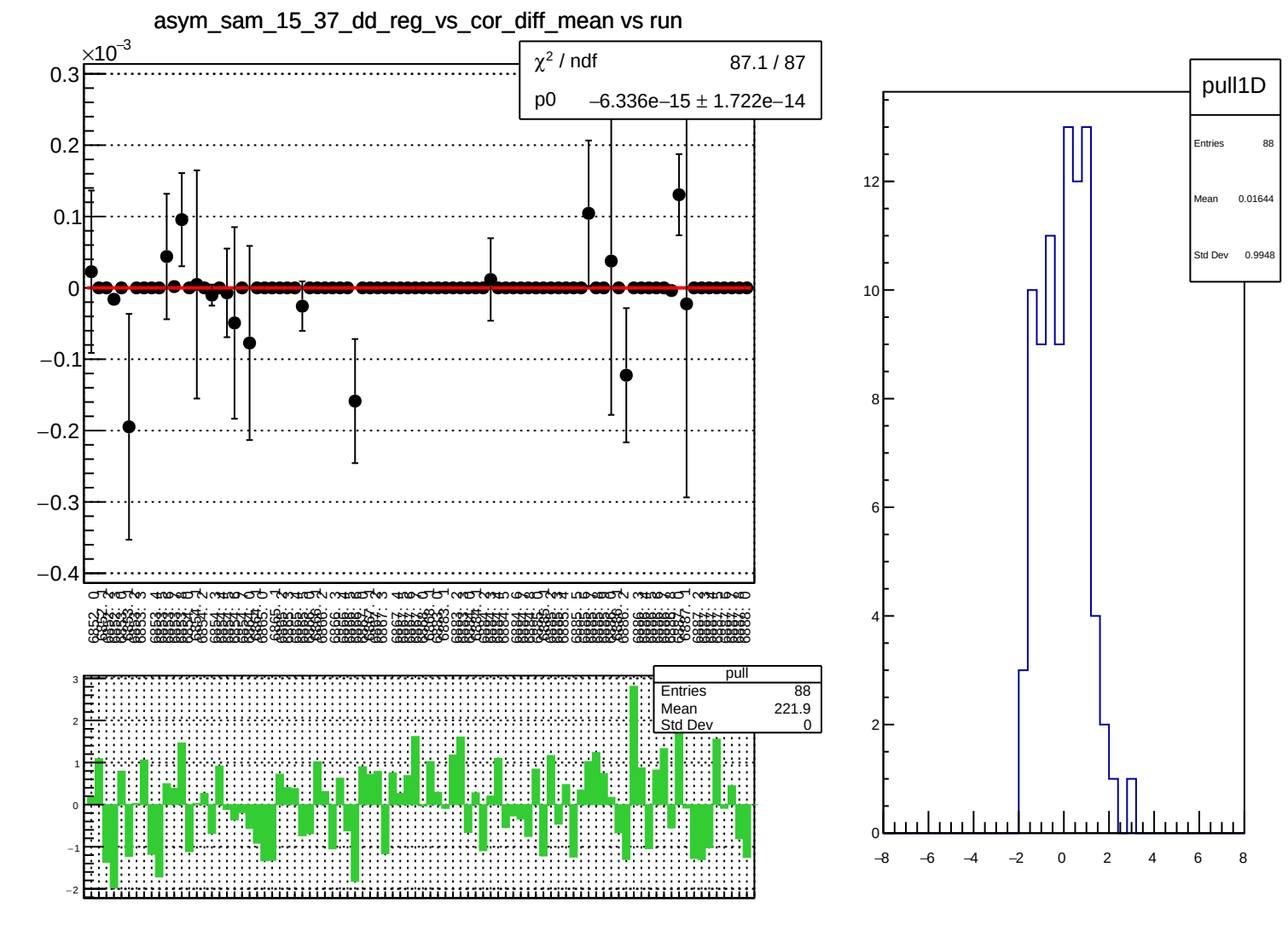

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.26 / 87
p0 1094 ± 487.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 367
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.007533
Std Dev 0.8998
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

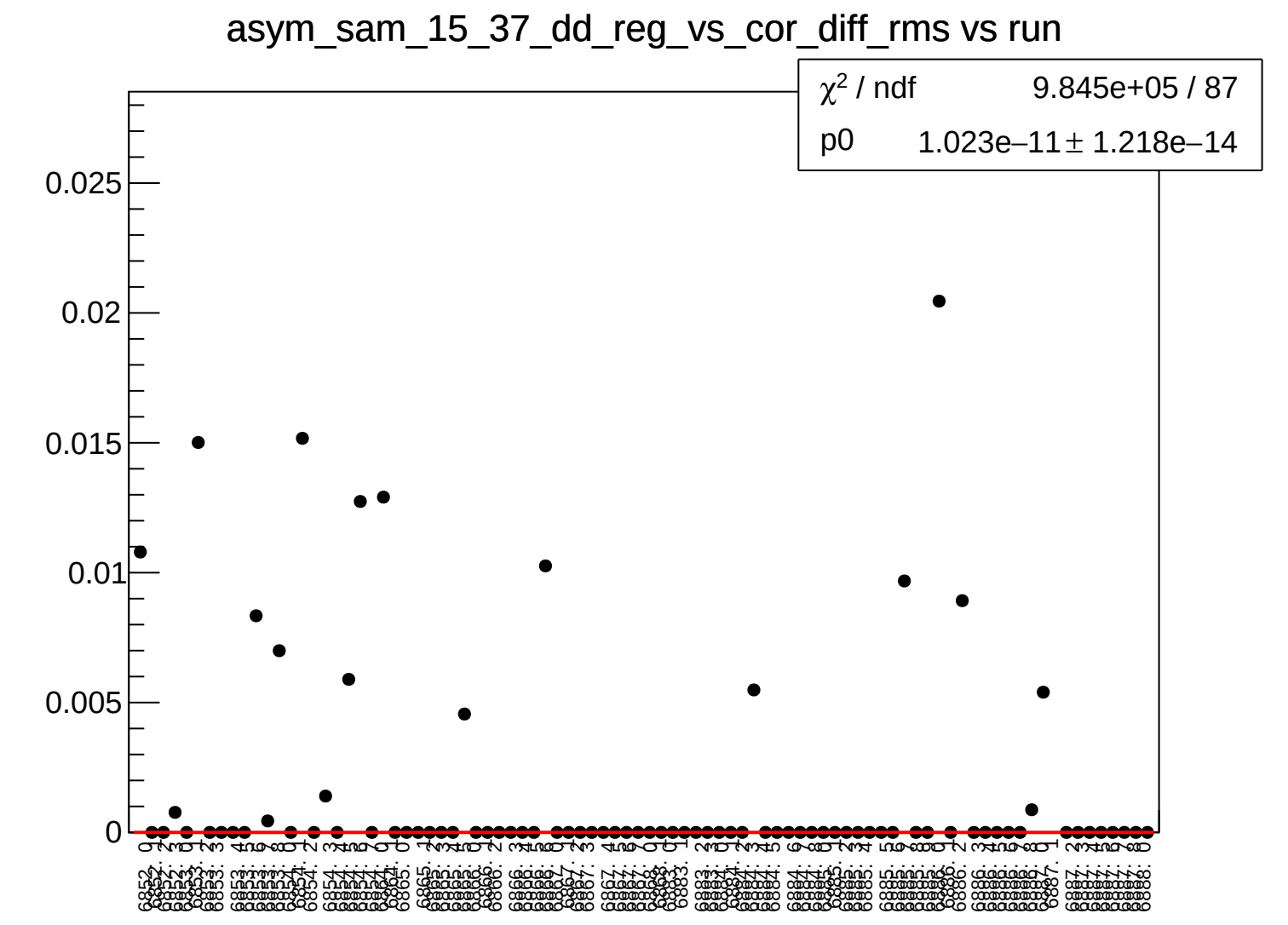

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.259e+04 / 87
p0 445.3 ± 0.3448
550
500
450
400
350

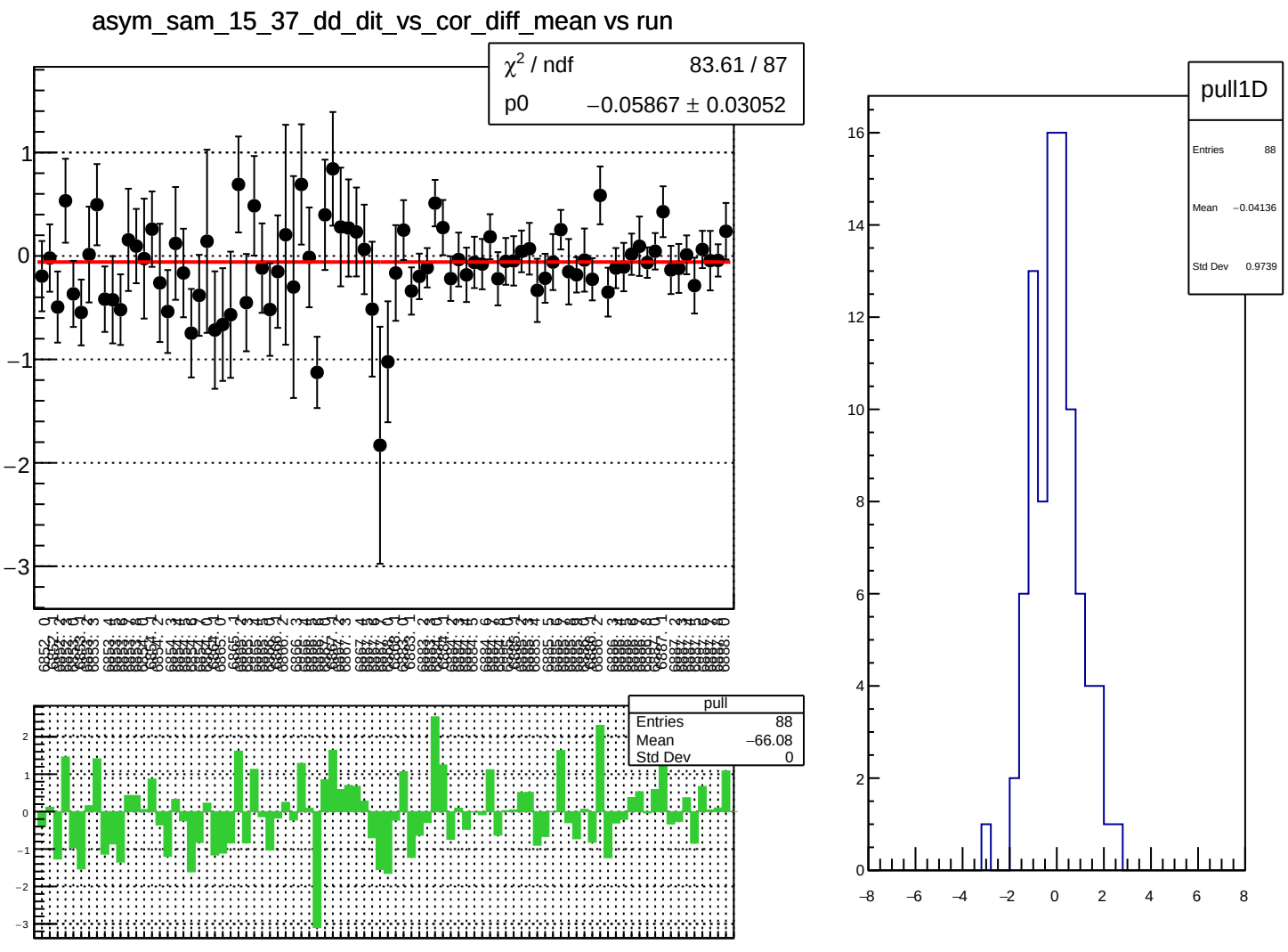

asym_sam_15_37_dd_mean vs run
χ² / ndf 70.2 / 87
p0 −1120 ± 515.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 776.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

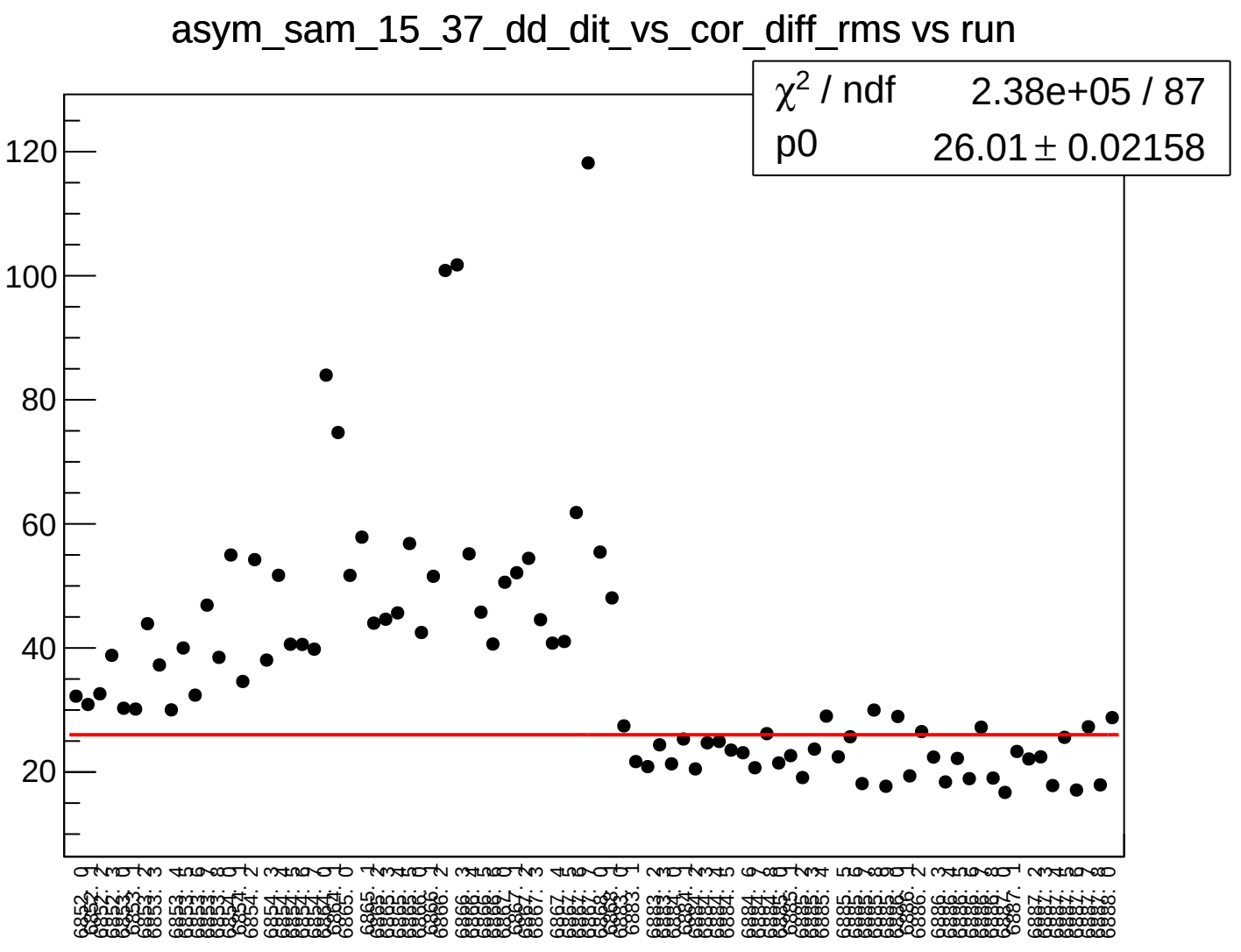

pull1D
Entries 88
Mean 0.003362
Std Dev 0.8931
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

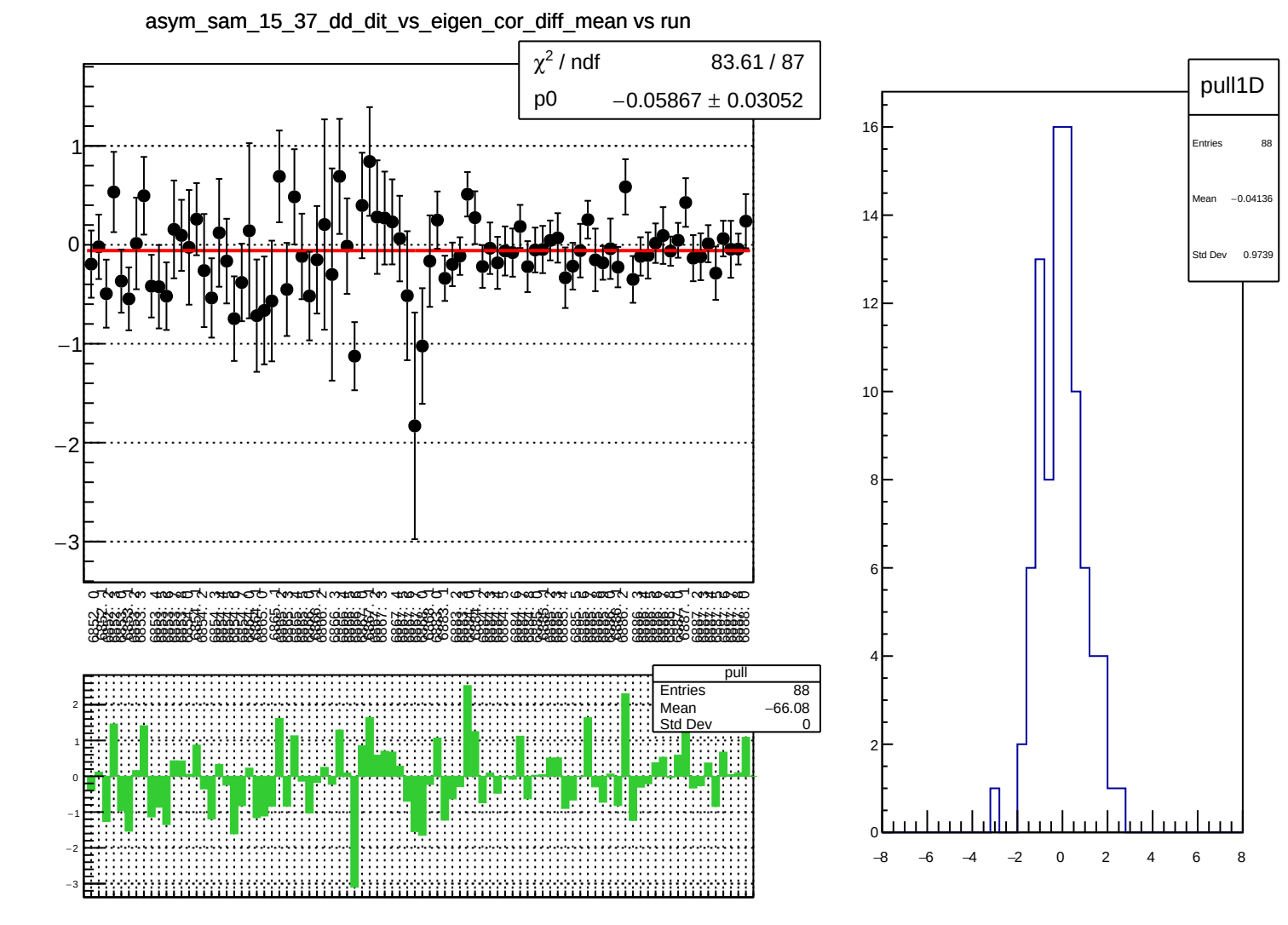

asym_sam_15_37_dd_rms vs run
χ² / ndf 2.523e+04 / 87
p0 470 ± 0.3642
650
600
550
500
450
400

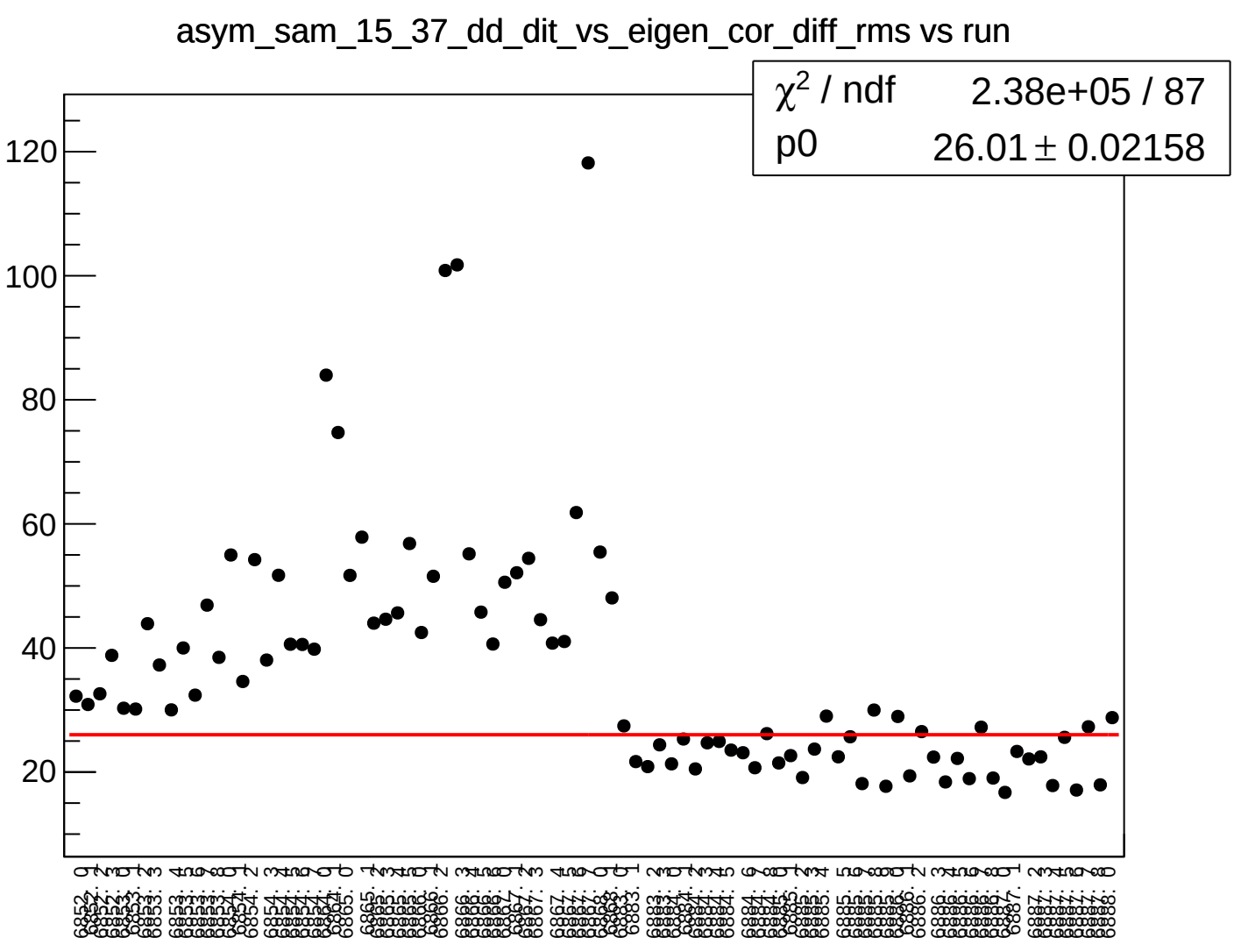

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 87.1 / 87
p0 −6.336e−15 ± 1.722e−14
pull
Entries 88
Mean 221.9
Std Dev 0
pull1D
Entries 88
Mean 0.01644
Std Dev 0.9948

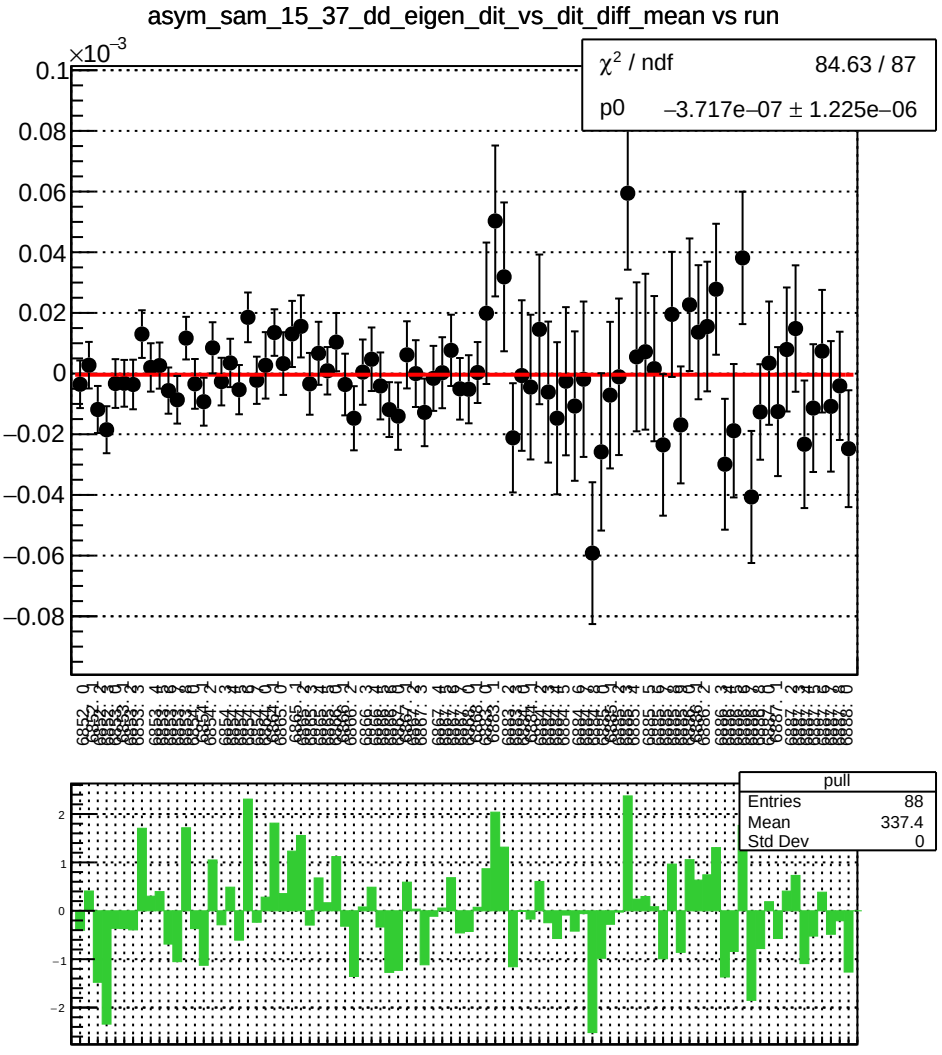

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.845e+05 / 87
p0 1.023e−11 ± 1.218e−14
0.025
0.02
0.015
0.01
0.005
0

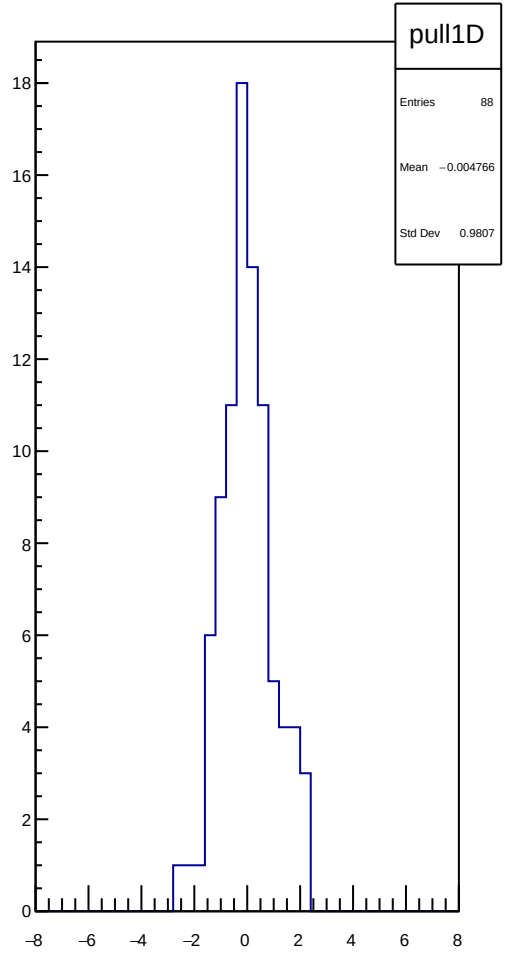

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.61 / 87
p0 −0.05867 ± 0.03052
pull
Entries 88
Mean −66.08
Std Dev 0
pull1D
Entries 88
Mean −0.04136
Std Dev 0.9739

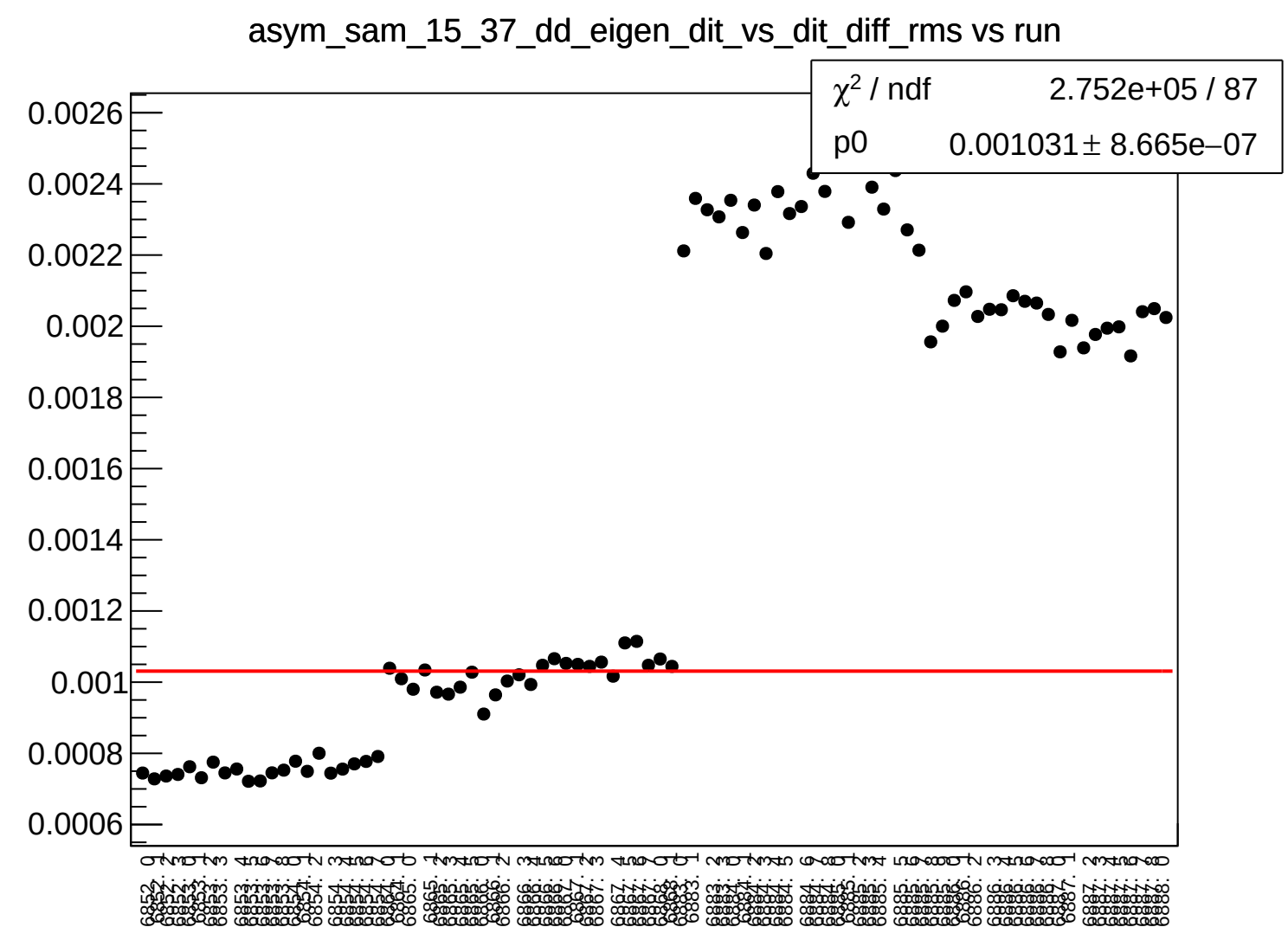

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.38e+05 / 87
p0 26.01 ± 0.02158
120
100
80
60
40
20

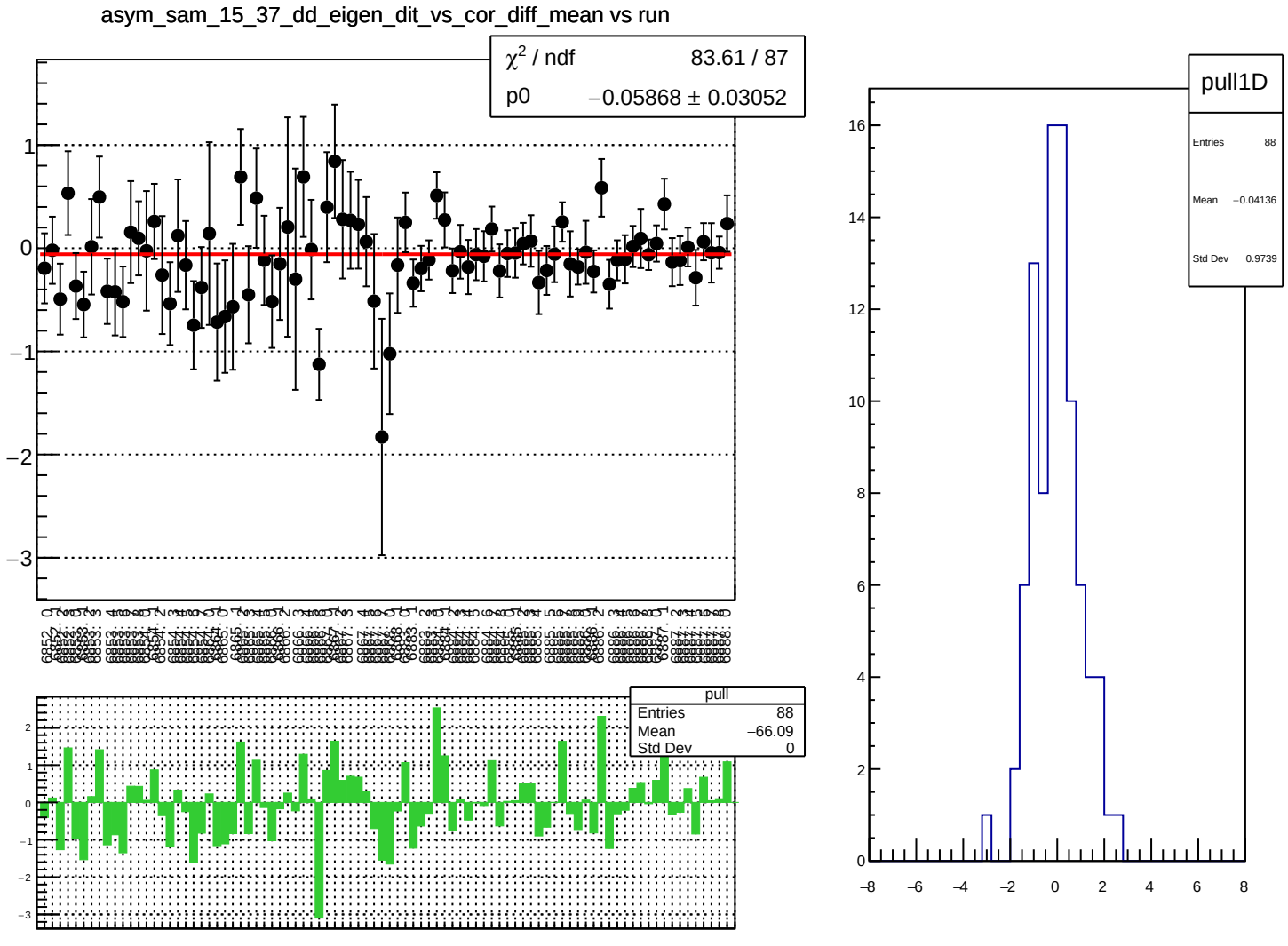

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.61 / 87
p0 −0.05867 ± 0.03052
pull
Entries 88
Mean −66.08
Std Dev 0
pull1D
Entries 88
Mean −0.04136
Std Dev 0.9739

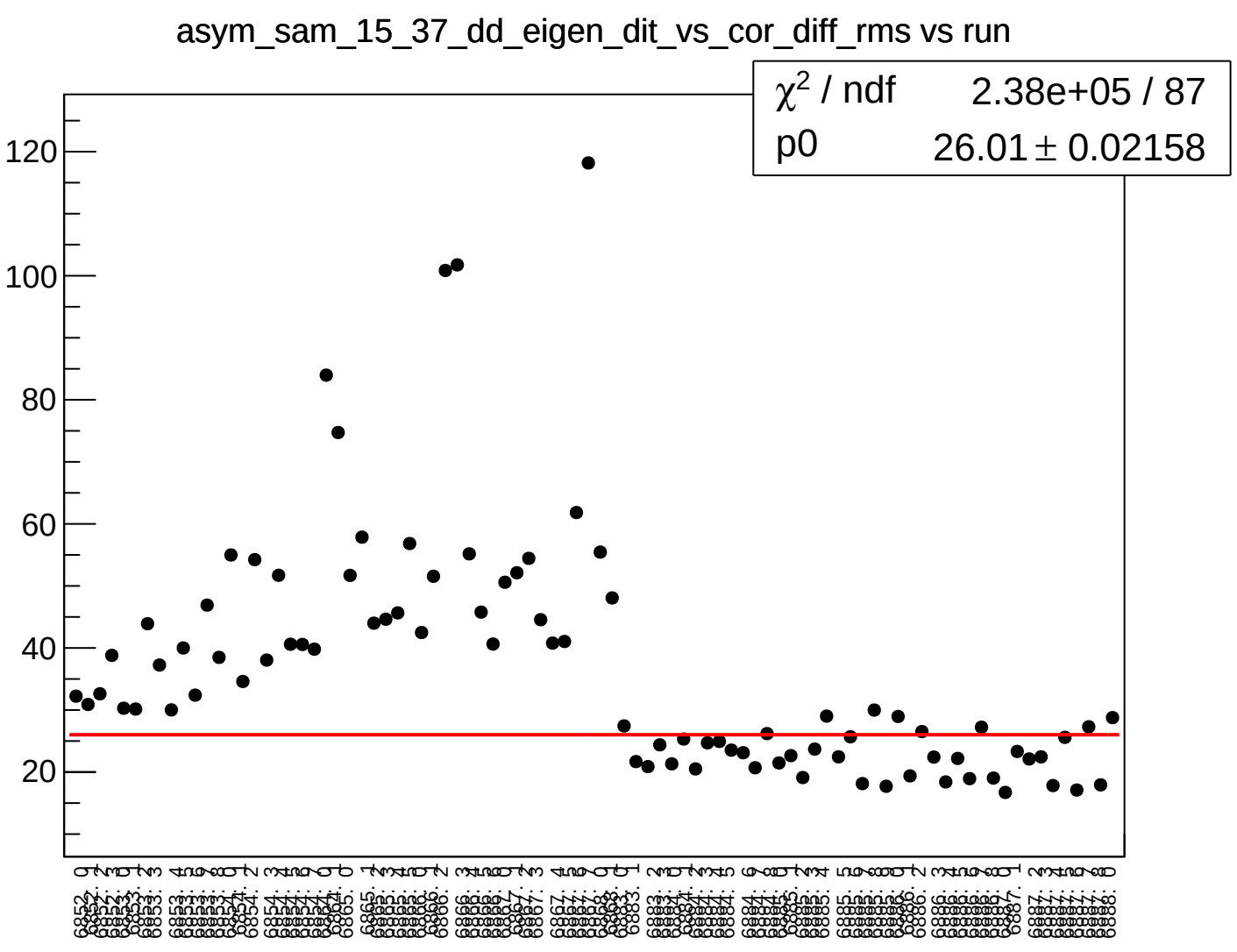

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.38e+05 / 87
p0 26.01 ± 0.02158
120
100
80
60
40
20

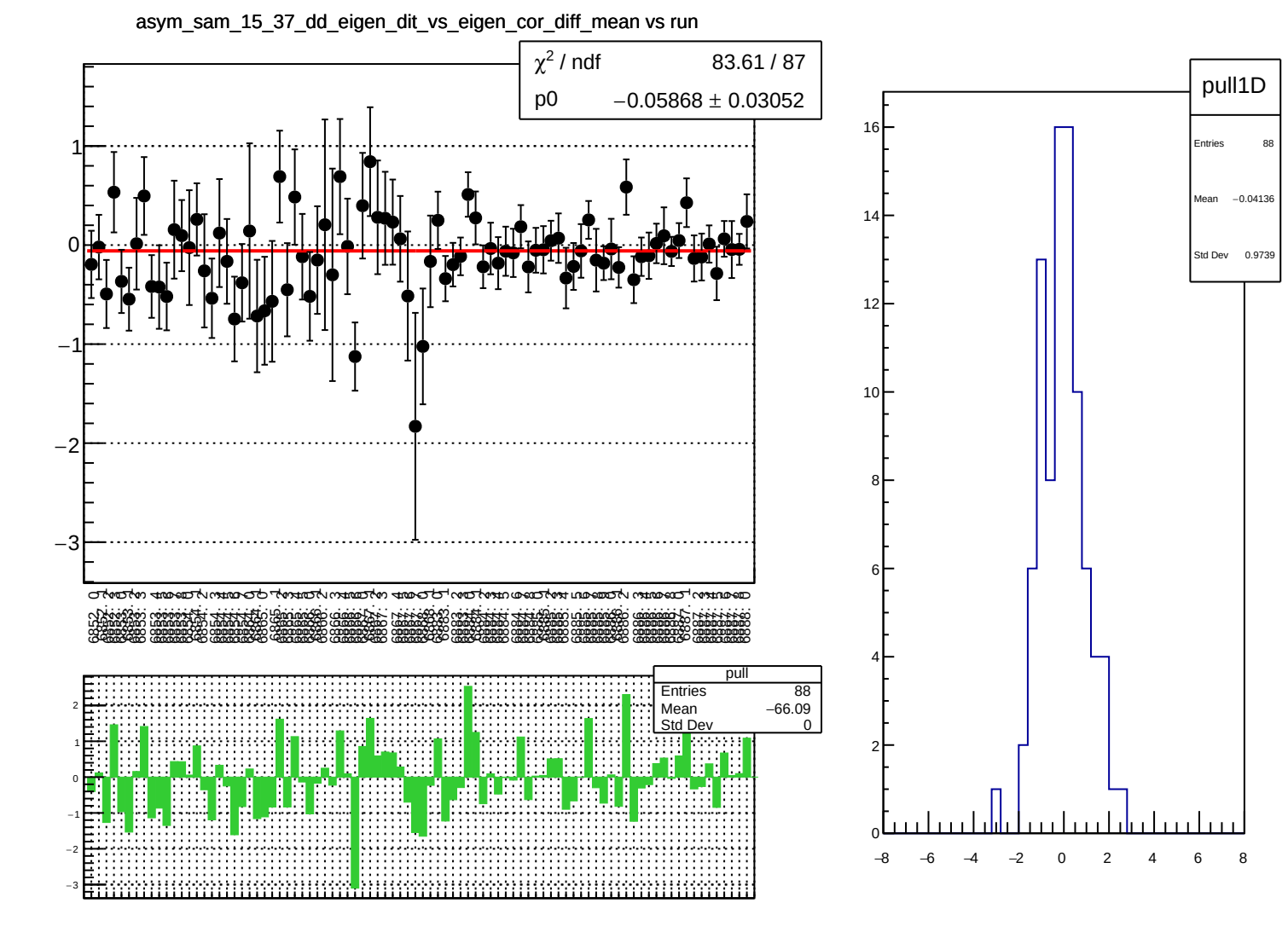

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.63 / 87
p0 −3.717e−07 ± 1.225e−06
pull
Entries 88
Mean 337.4
Std Dev 0

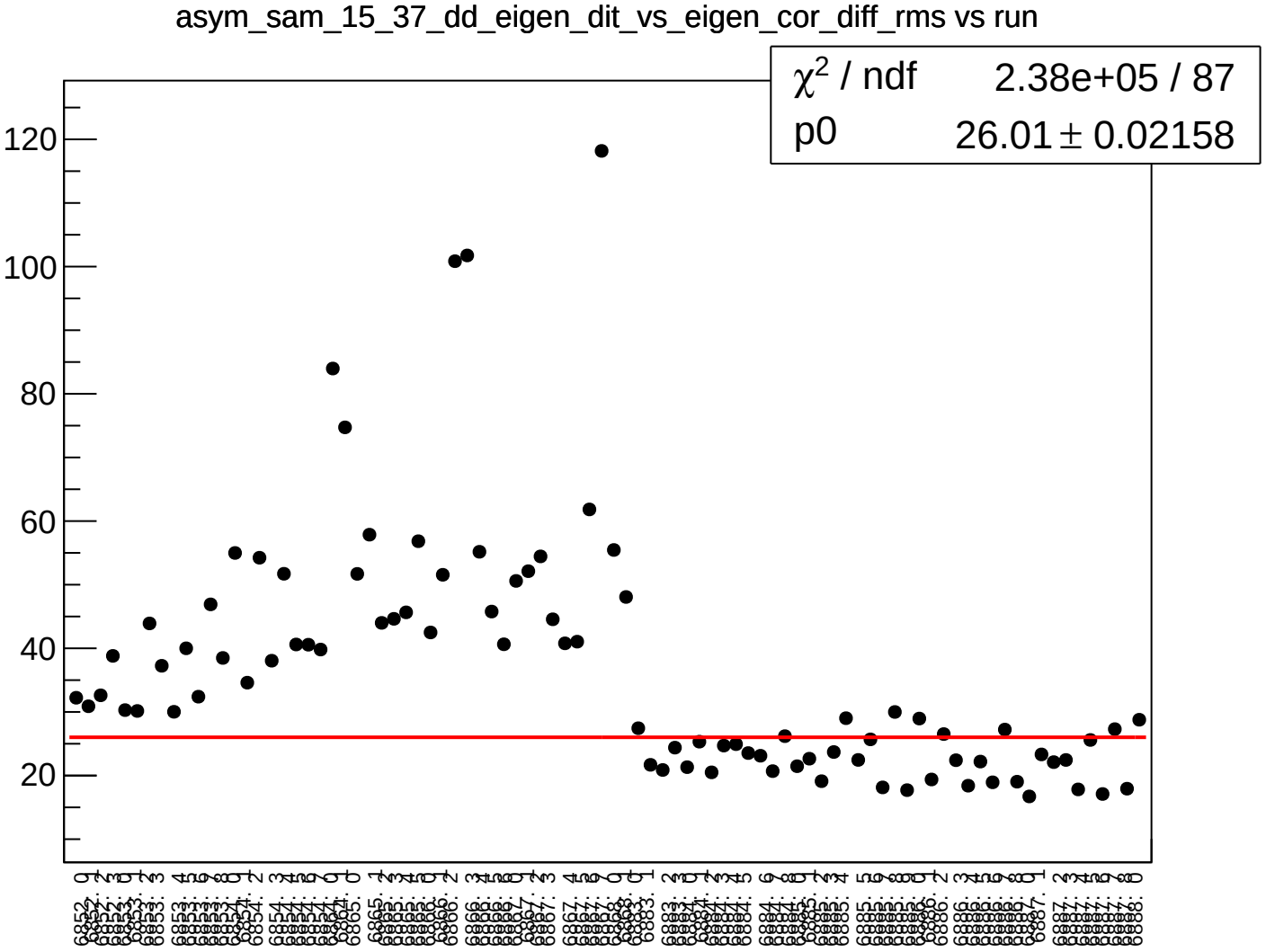

pull1D
Entries 88
Mean −0.004766
Std Dev 0.9807

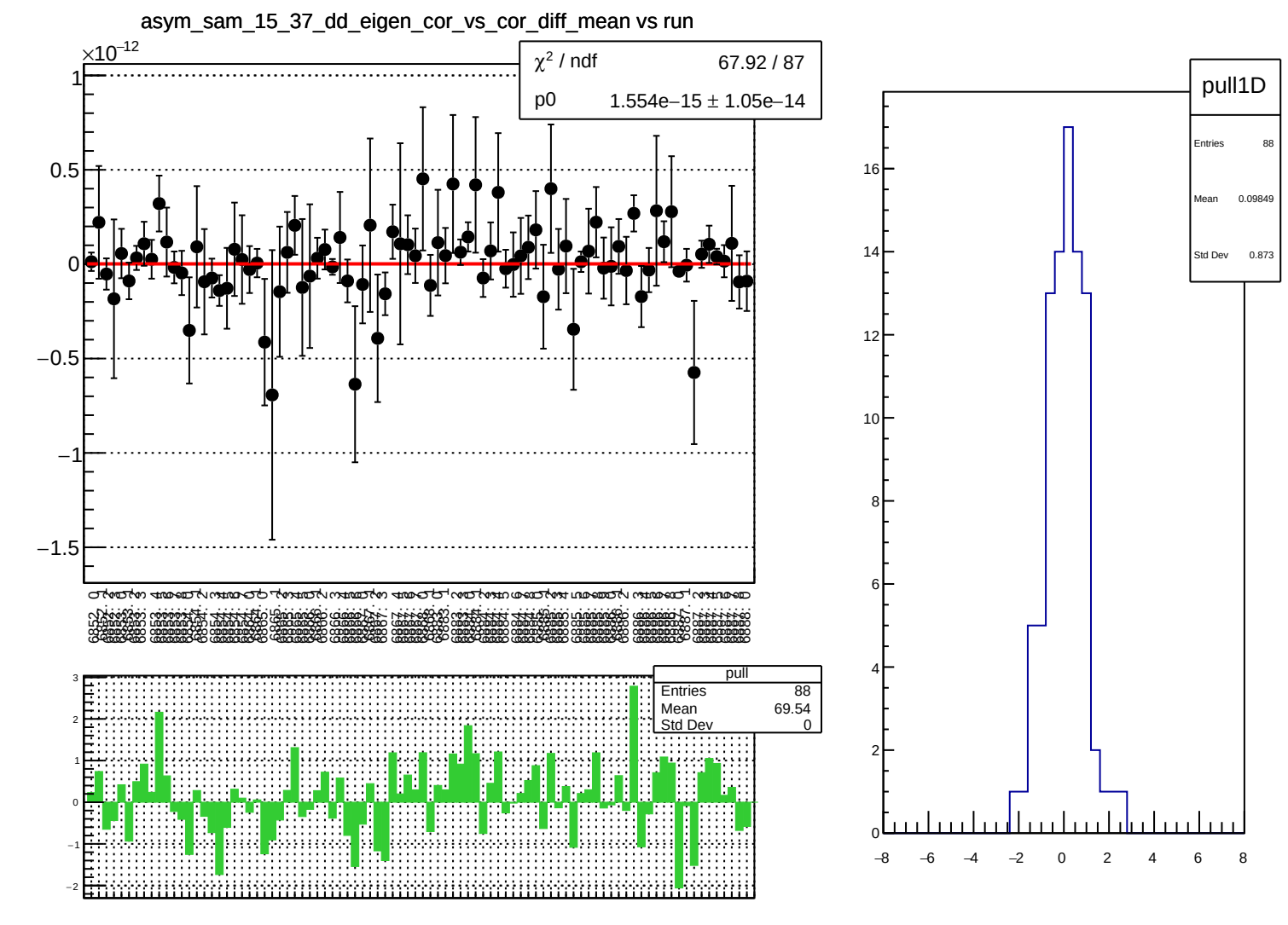

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.752e+05 / 87
p0 0.001031 ± 8.665e−07
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

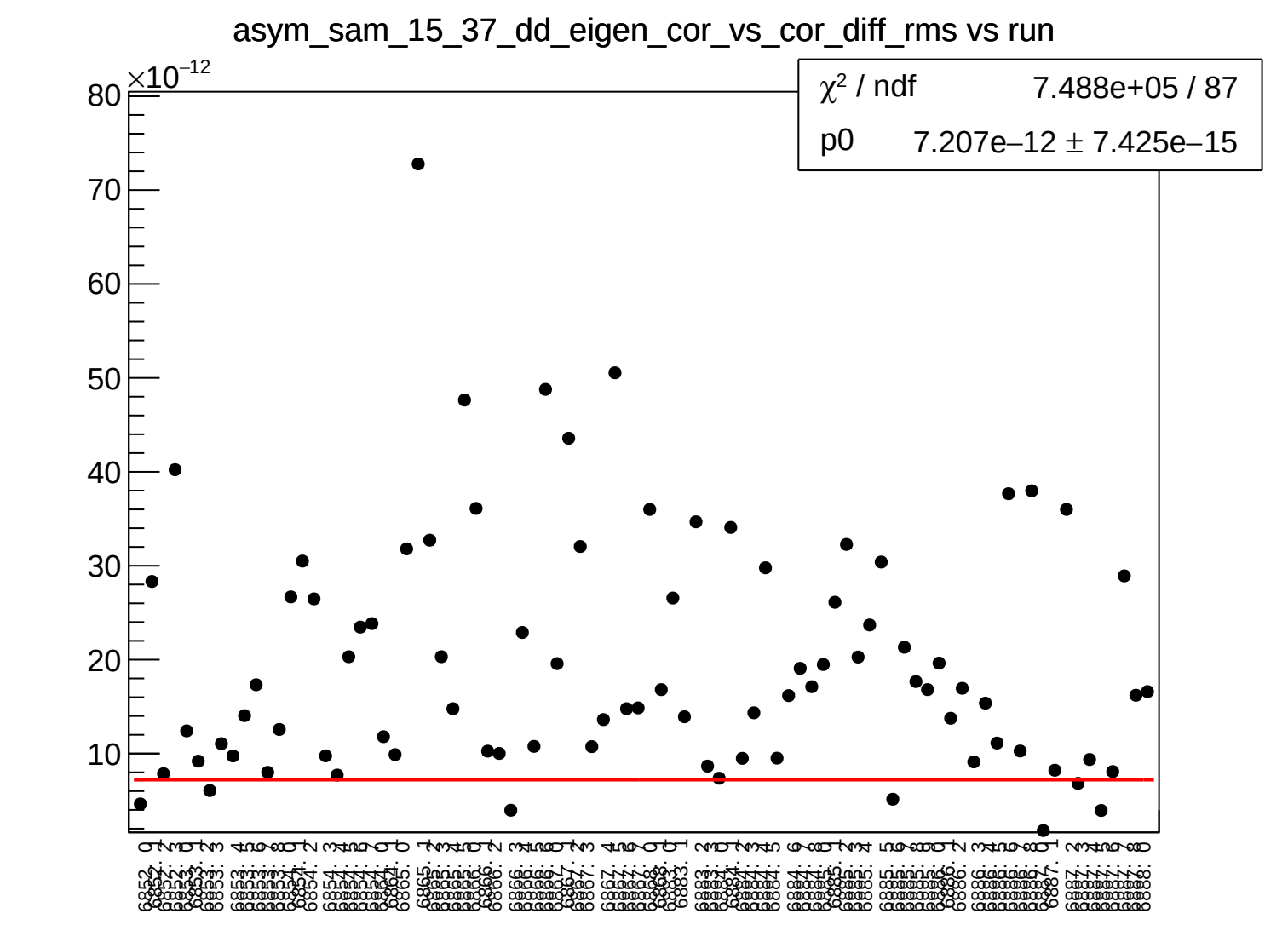

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.61 / 87
p0 −0.05868 ± 0.03052
pull
Entries 88
Mean −66.09
Std Dev 0
pull1D
Entries 88
Mean −0.04136
Std Dev 0.9739

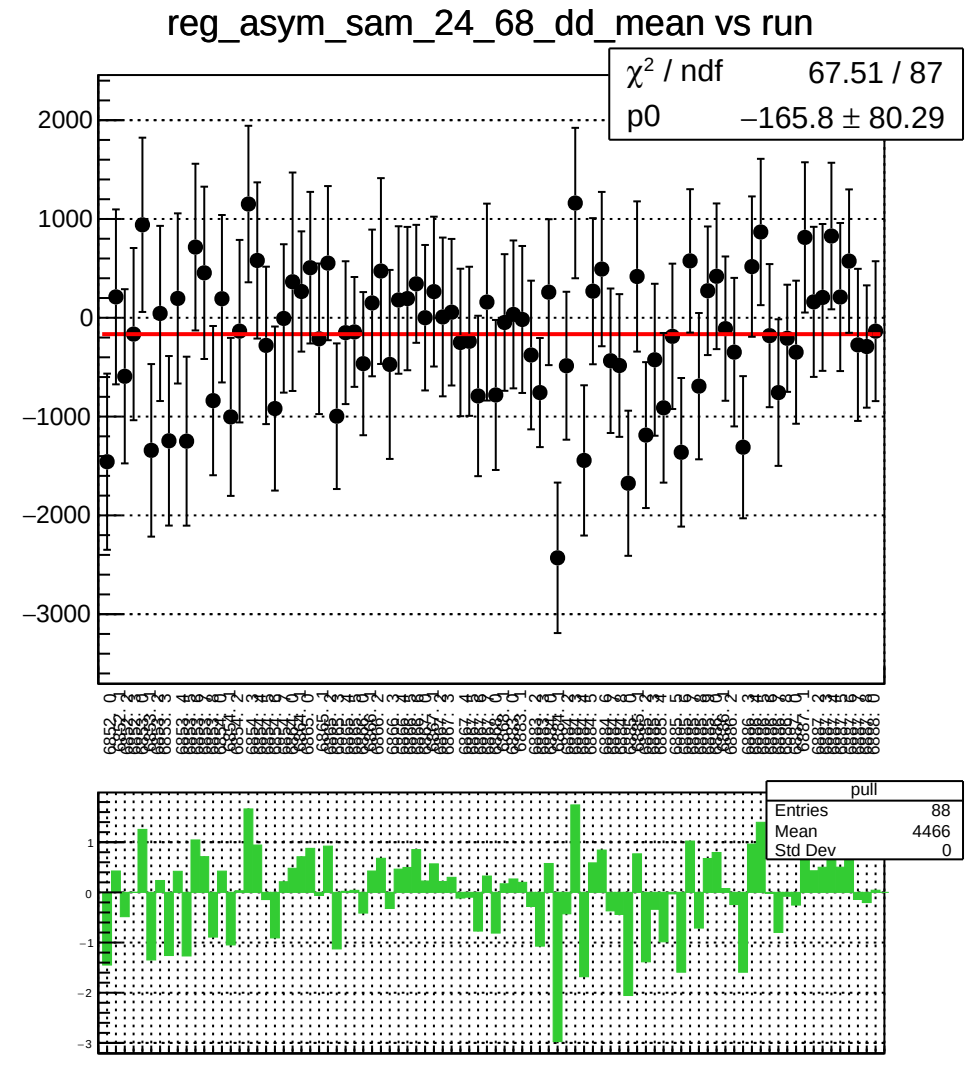

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.38e+05 / 87
p0 26.01 ± 0.02158
120
100
80
60
40
20

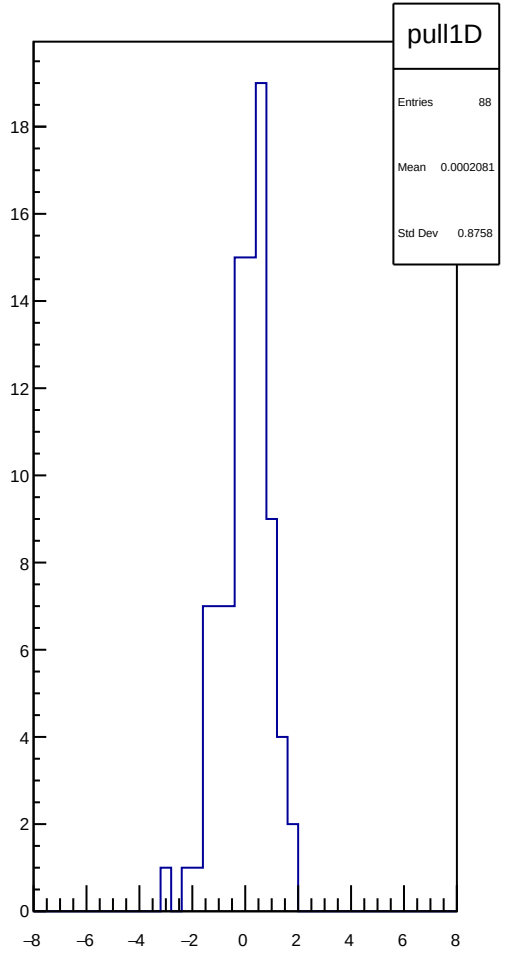

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.61 / 87
p0 −0.05868 ± 0.03052
pull
Entries 88
Mean −66.09
Std Dev 0
pull1D
Entries 88
Mean −0.04136
Std Dev 0.9739

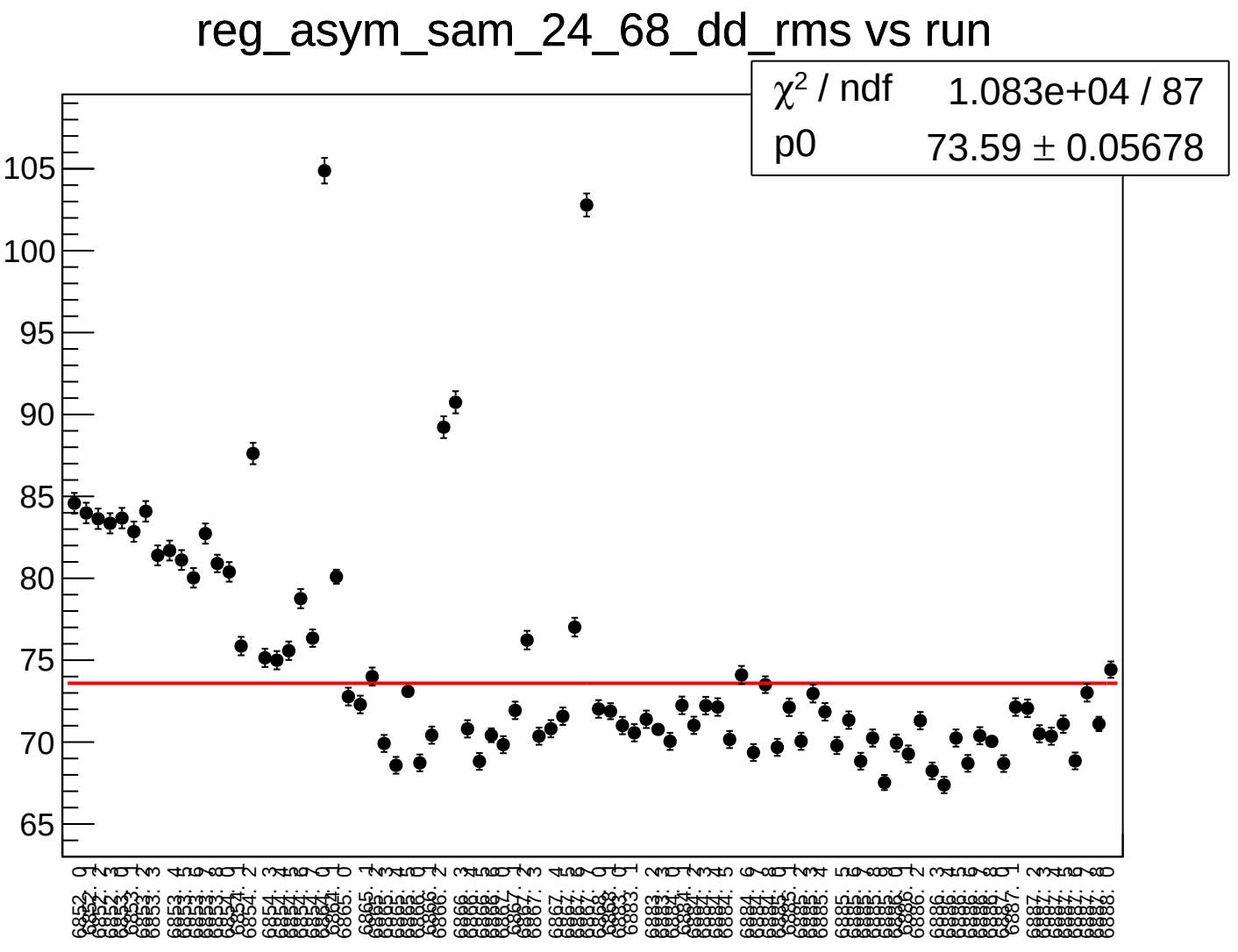

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.38e+05 / 87
p0 26.01 ± 0.02158
120
100
80
60
40
20

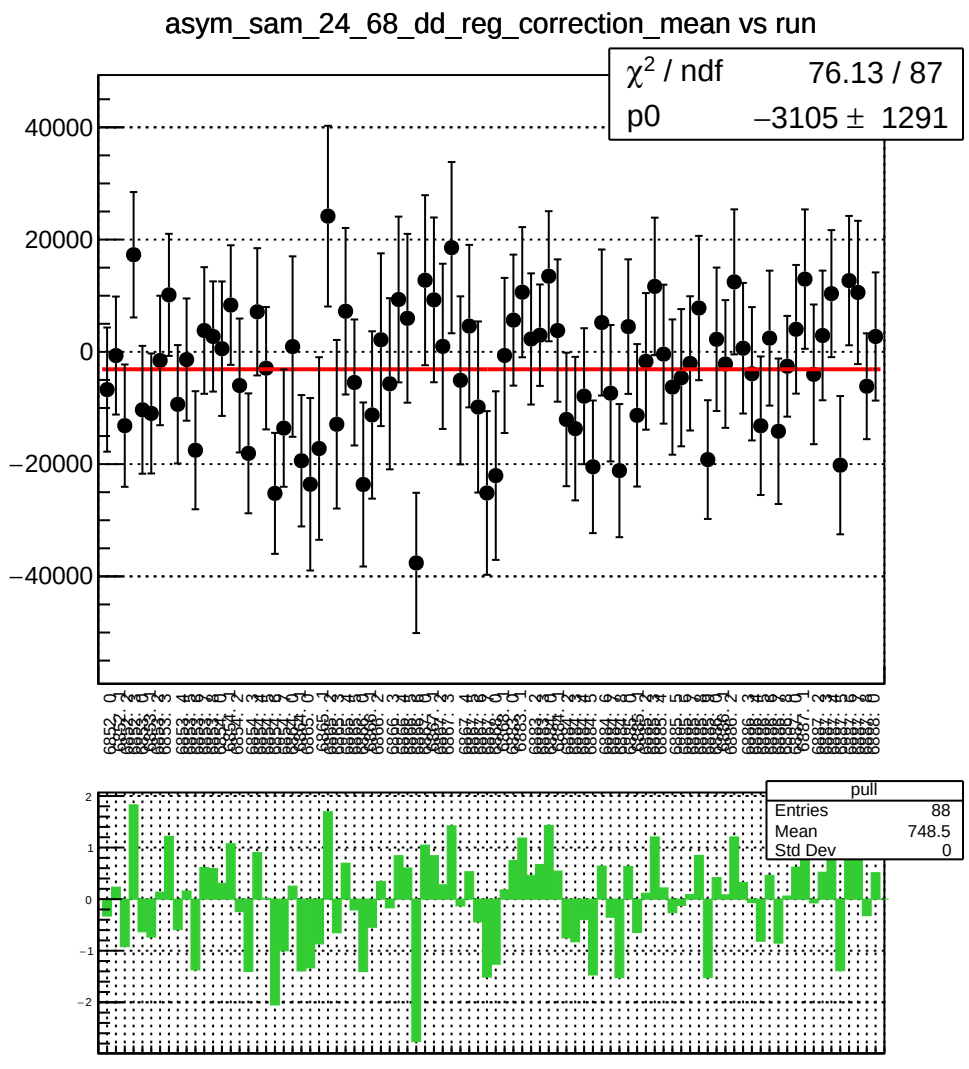

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 67.92 / 87
p0 1.554e−15 ± 1.05e−14
pull
Entries 88
Mean 69.54
Std Dev 0
pull1D
Entries 88
Mean 0.09849
Std Dev 0.873

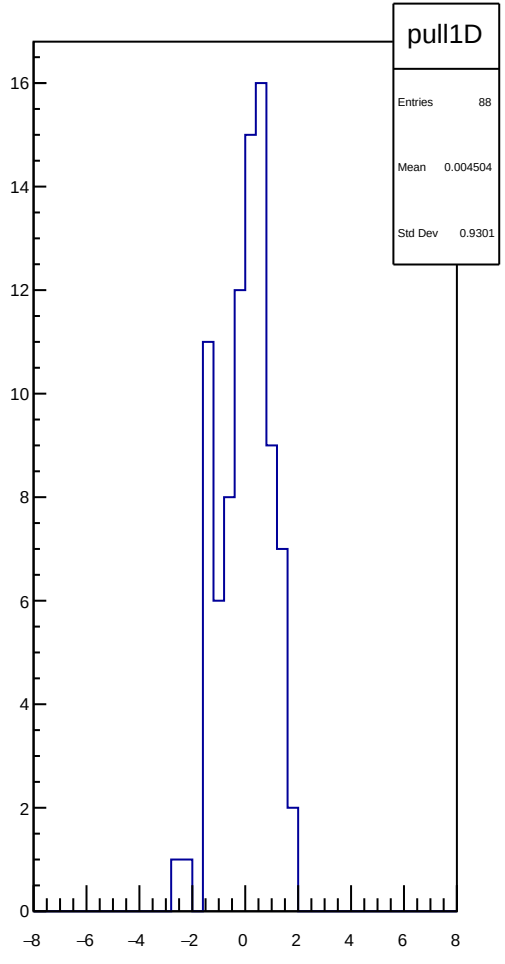

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
80
70
60
50
40
30
20
10
χ² / ndf 7.488e+05 / 87
p0 7.207e−12 ± 7.425e−15

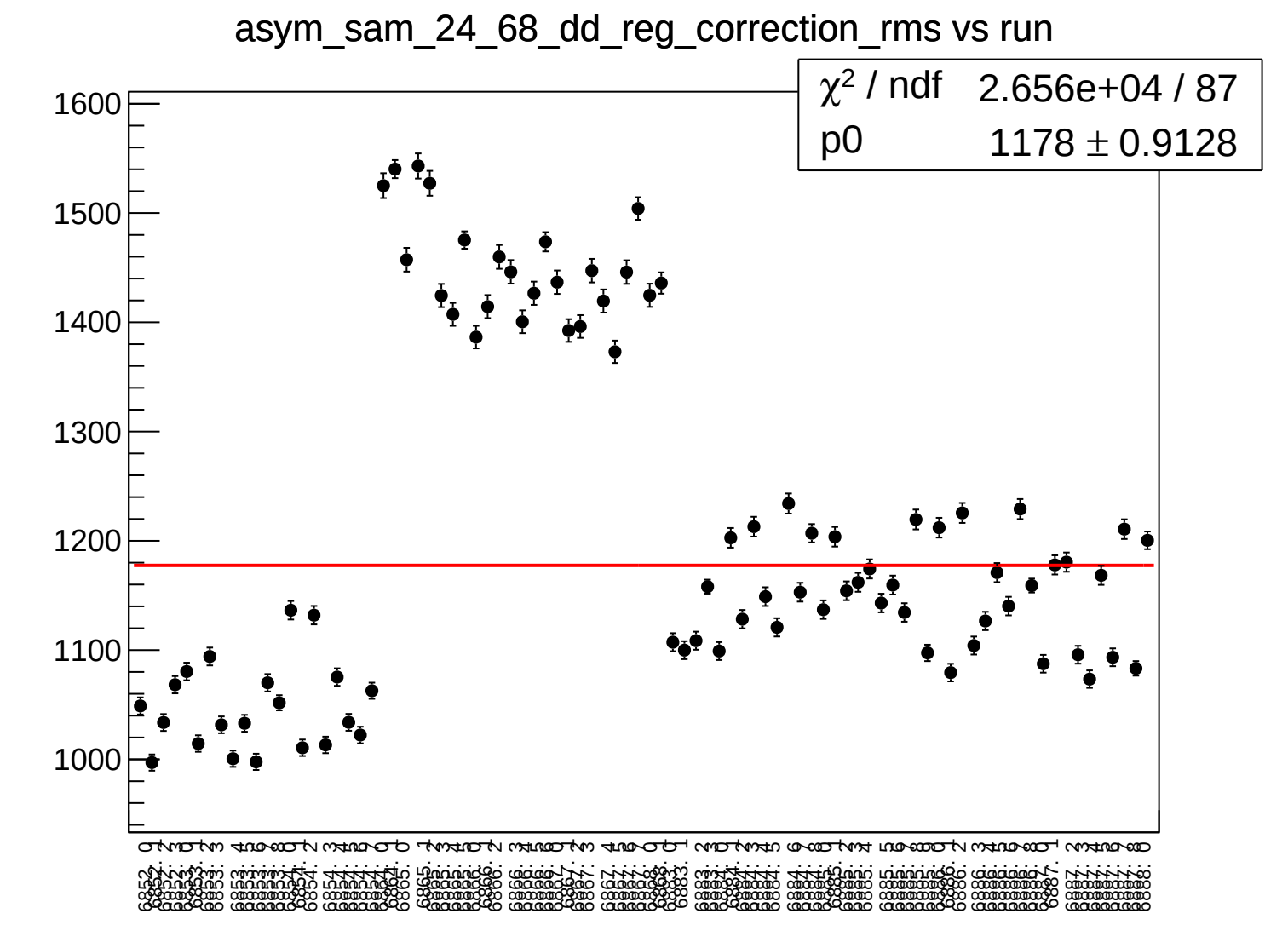

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 67.51 / 87
p0 −165.8 ± 80.29
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 4466
Std Dev 0
1
0
−1
−2
−3

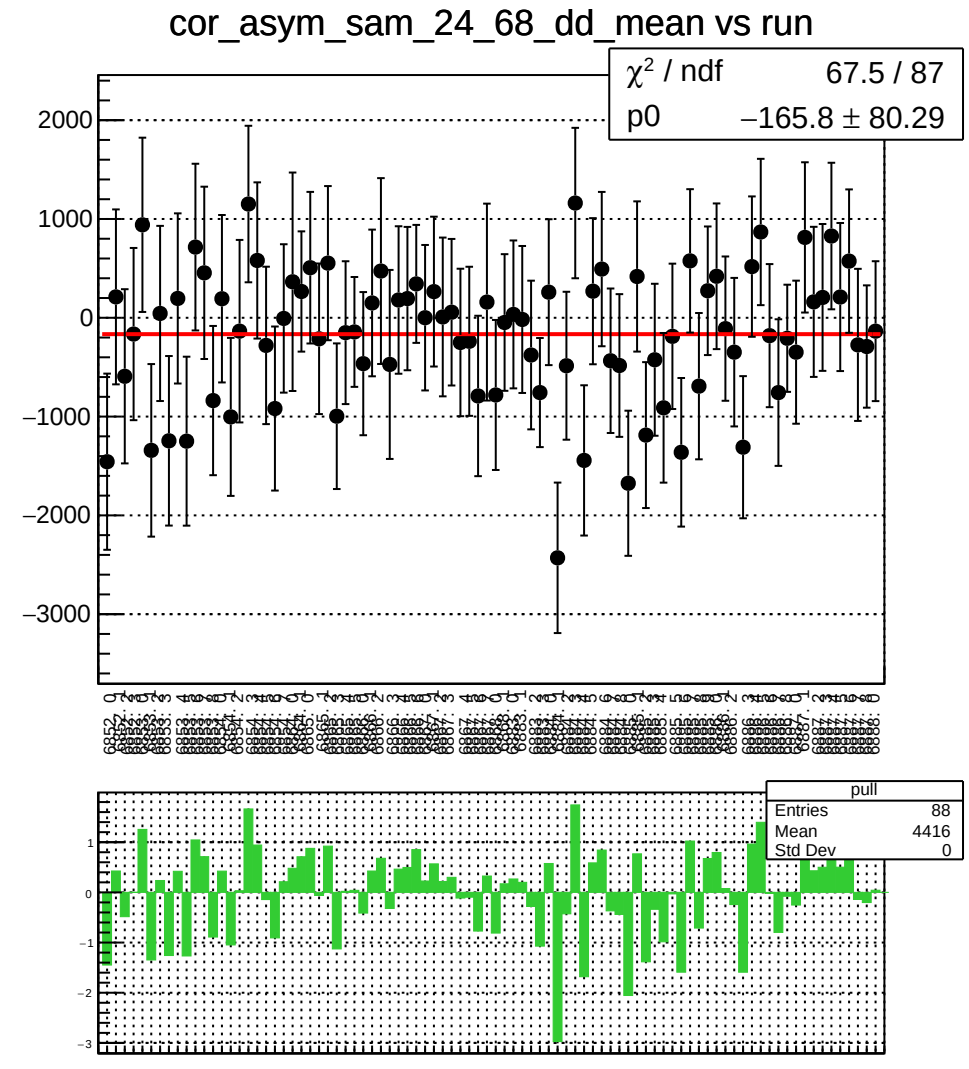

pull1D
Entries 88
Mean 0.0002081
Std Dev 0.8758
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

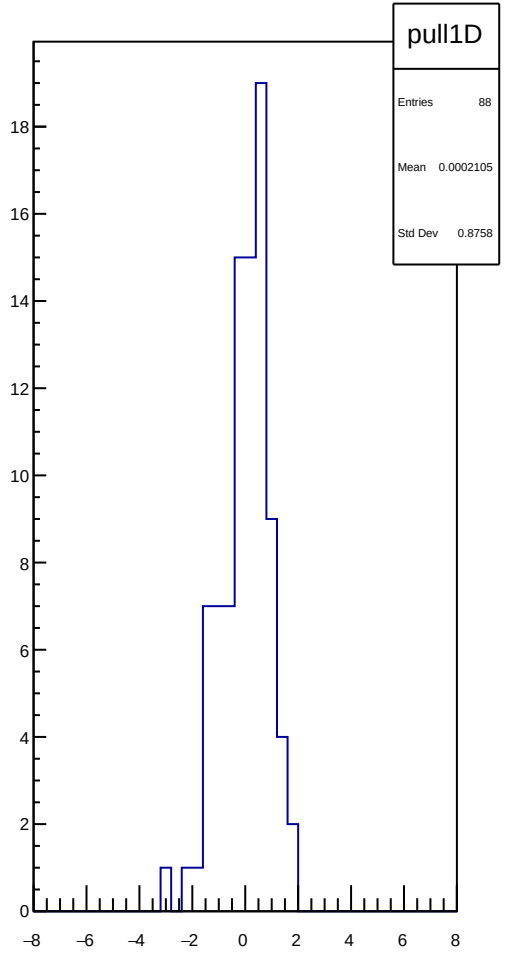

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.083e+04 / 87
p0 73.59 ± 0.05678
105
100
95
90
85
80
75
70
65

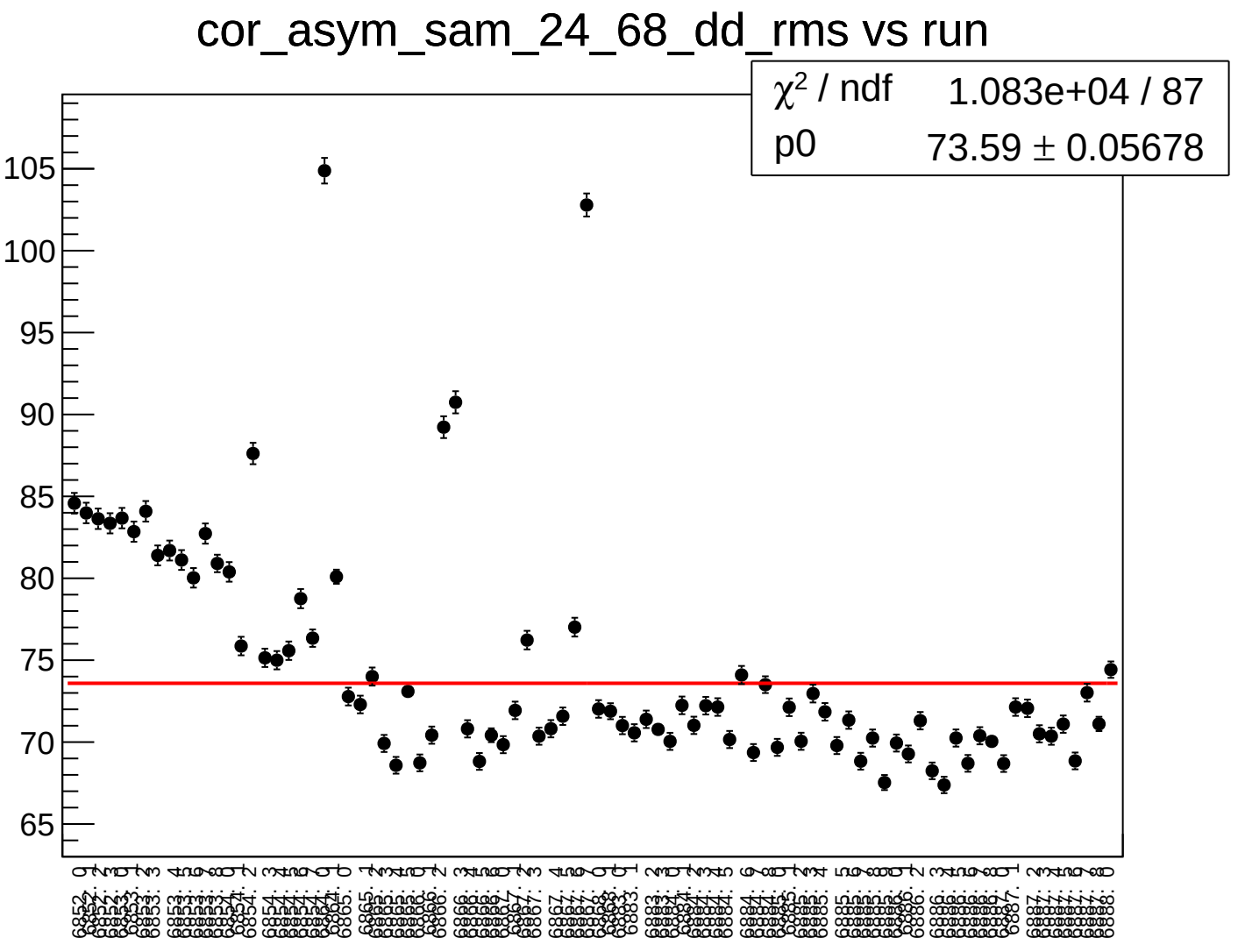

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 76.13 / 87
p0 −3105 ± 1291
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 748.5
Std Dev 0
2
1
0
−1
−2

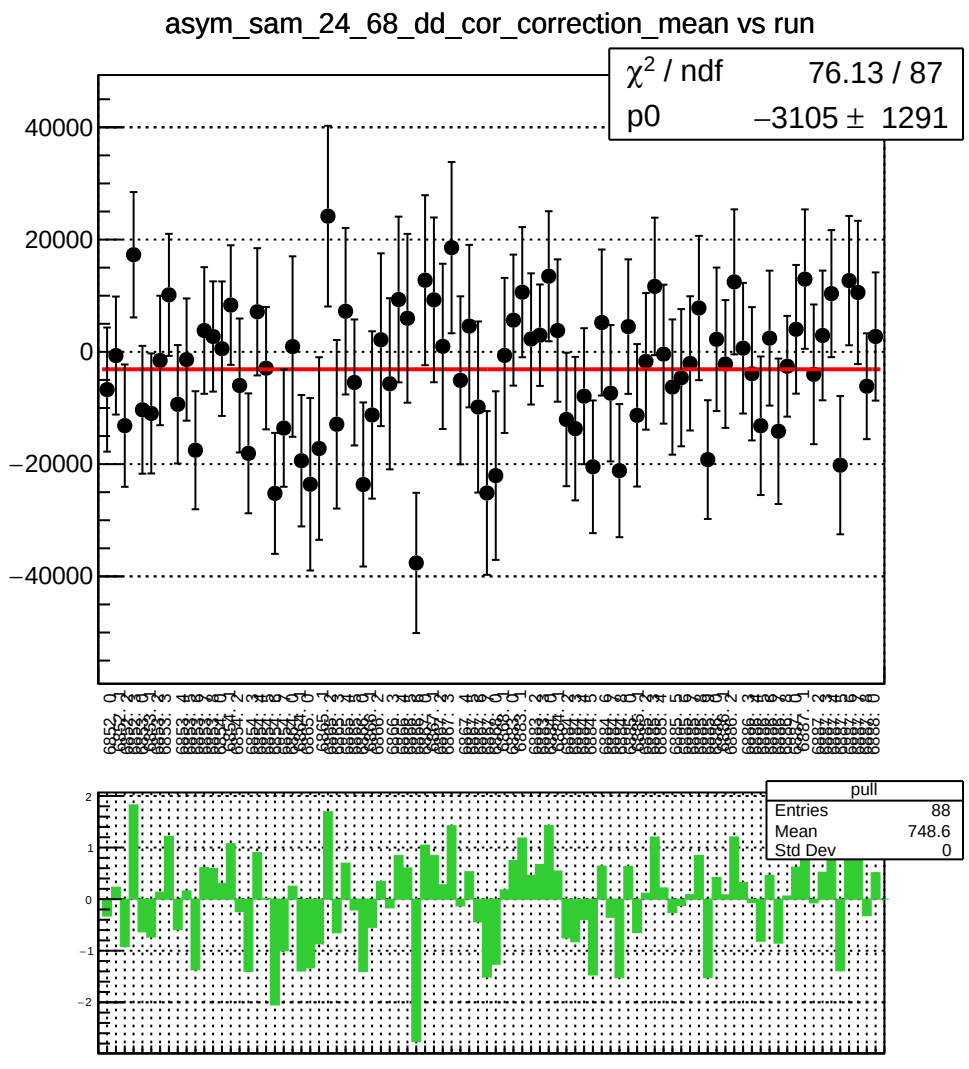

pull1D
Entries 88
Mean 0.004504
Std Dev 0.9301
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

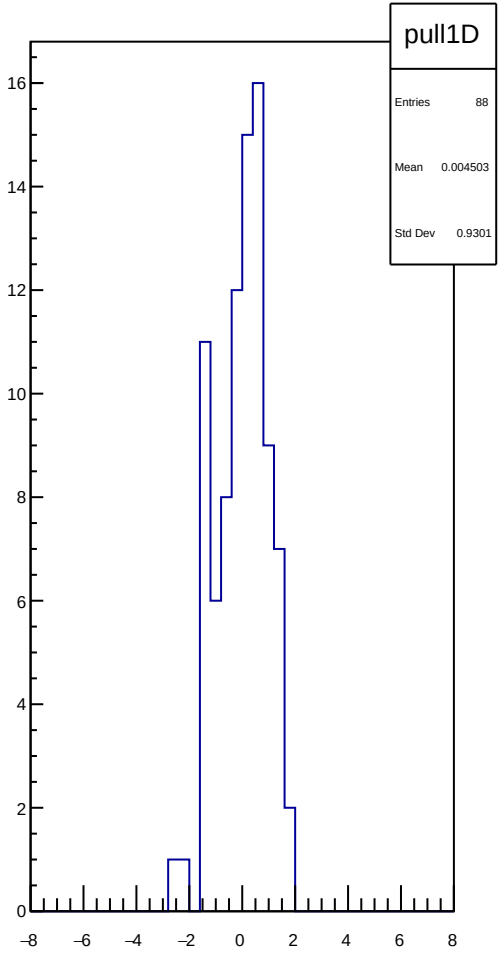

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 2.656e+04 / 87
p0 1178 ± 0.9128
1600
1500
1400
1300
1200
1100
1000


cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 67.5 / 87
p0 −165.8 ± 80.29
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 4416
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 88
Mean 0.0002105
Std Dev 0.8758
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.083e+04 / 87
p0 73.59 ± 0.05678
105
100
95
90
85
80
75
70
65


asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 76.13 / 87
p0 −3105 ± 1291
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 748.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.004503
Std Dev 0.9301
16
14
12
10
8
6
4
2
0
−8
−6
−4
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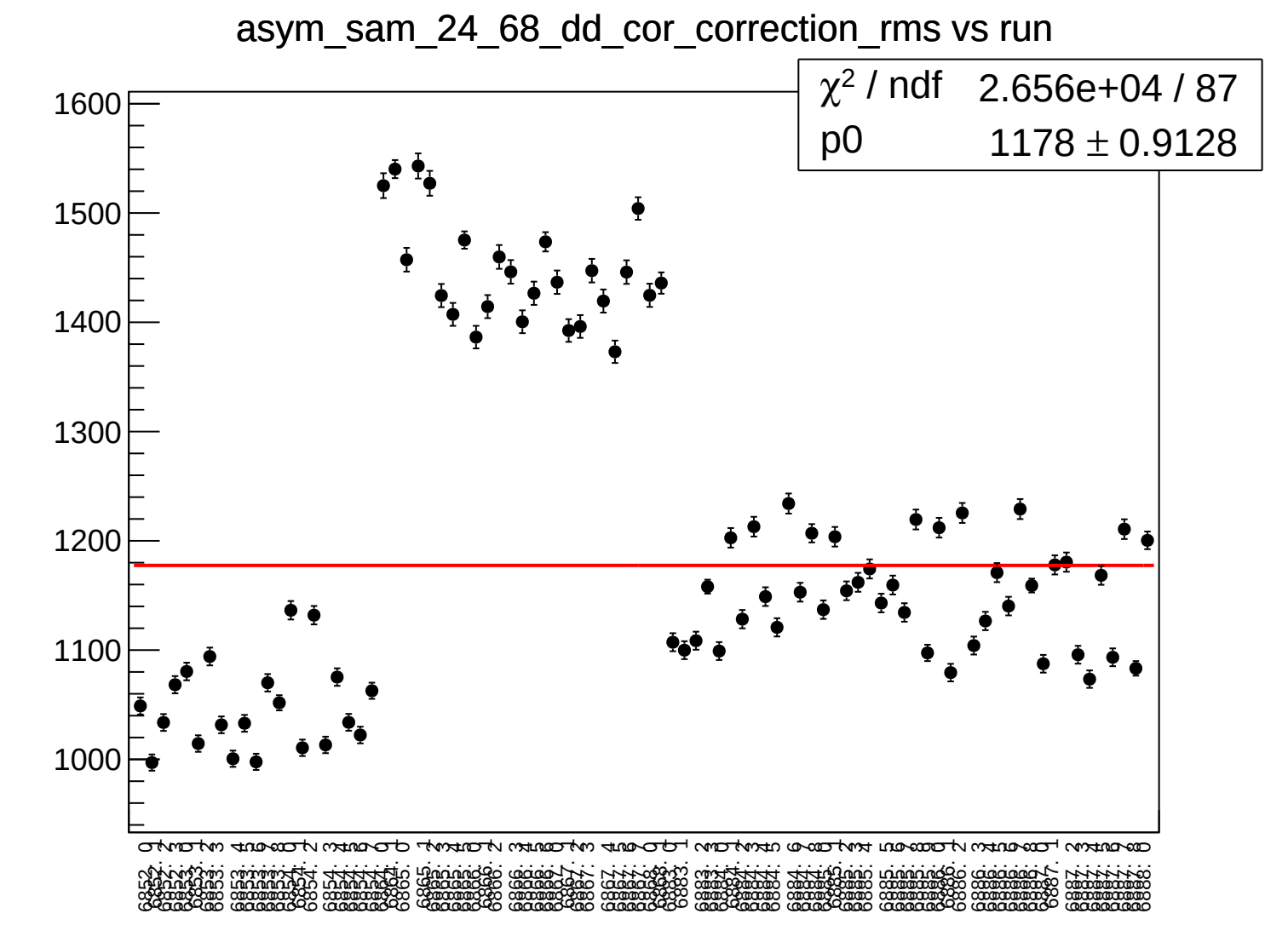
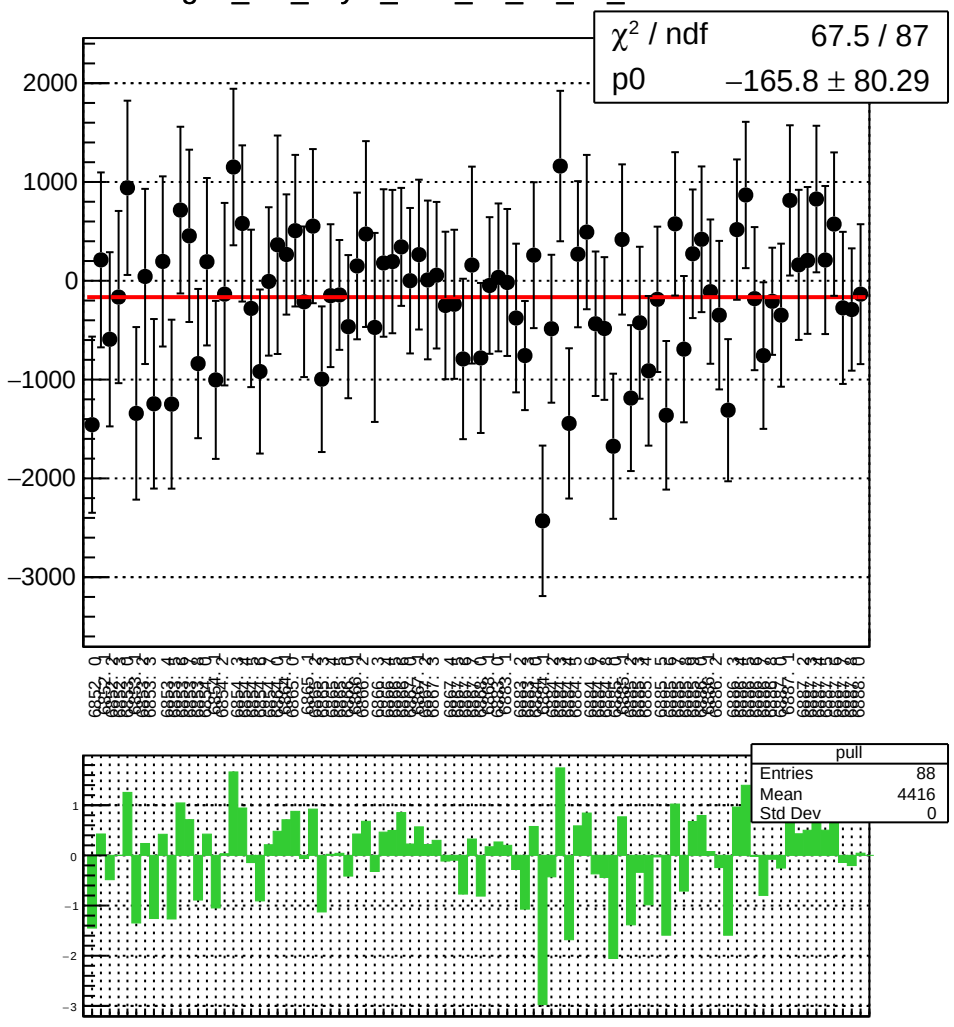
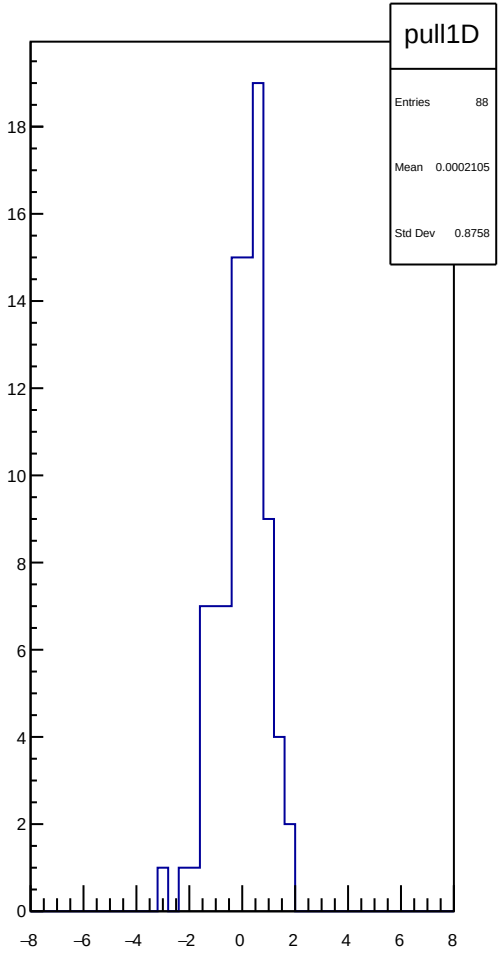
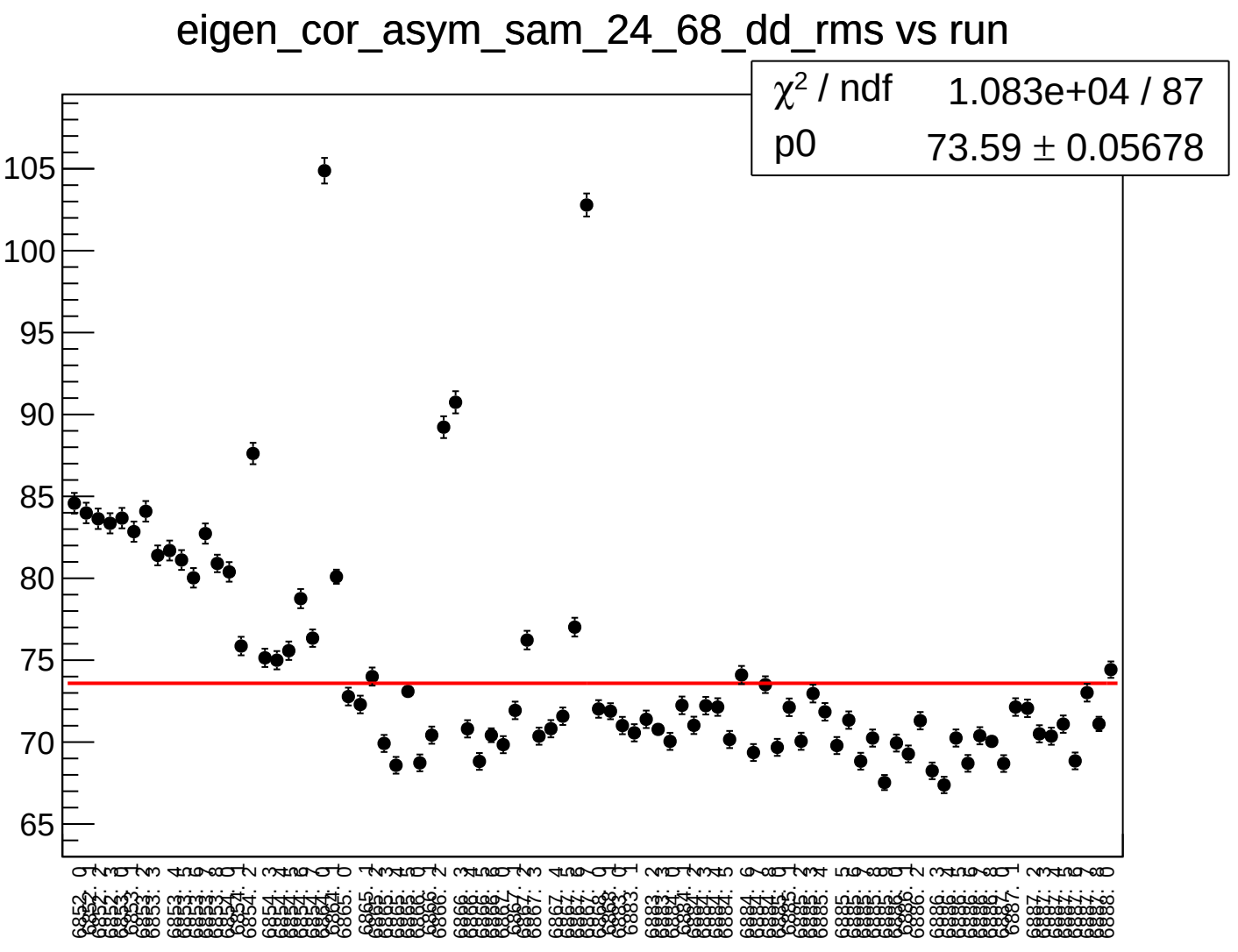
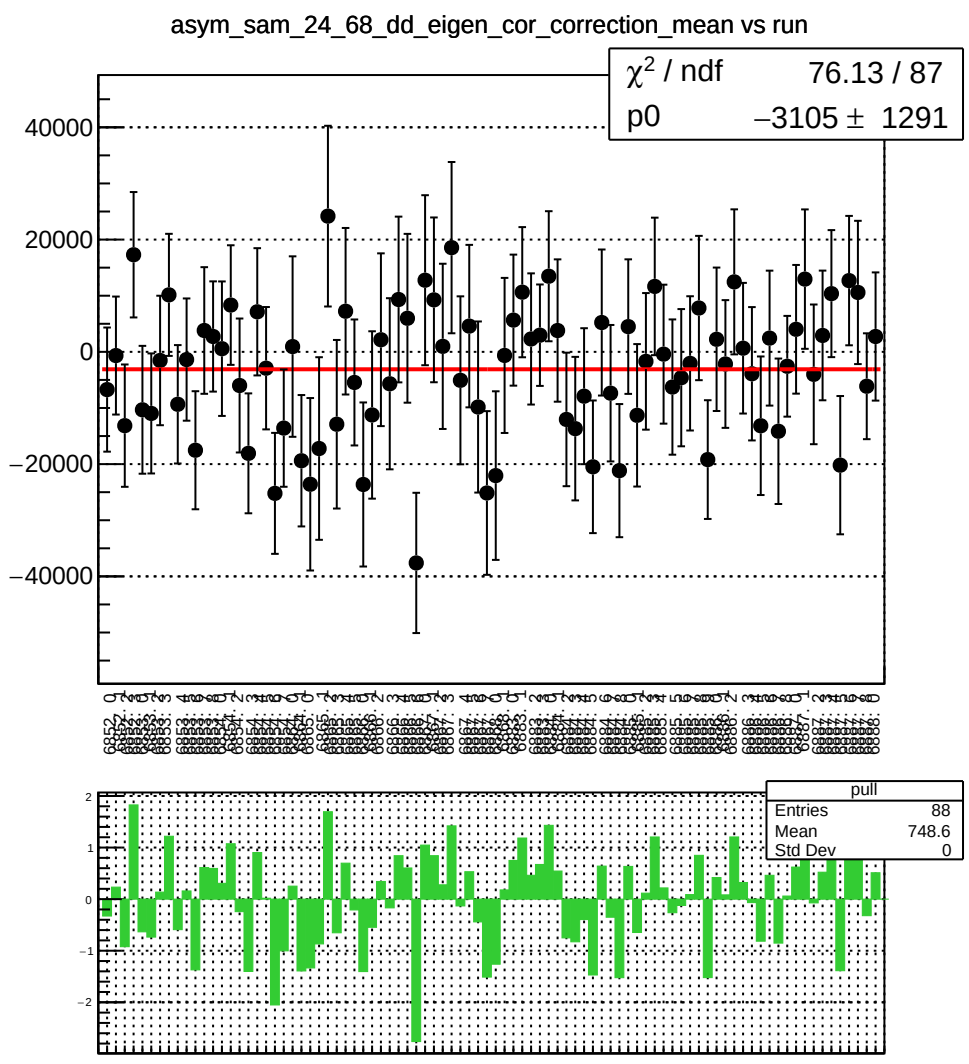
0
2
4
6
8

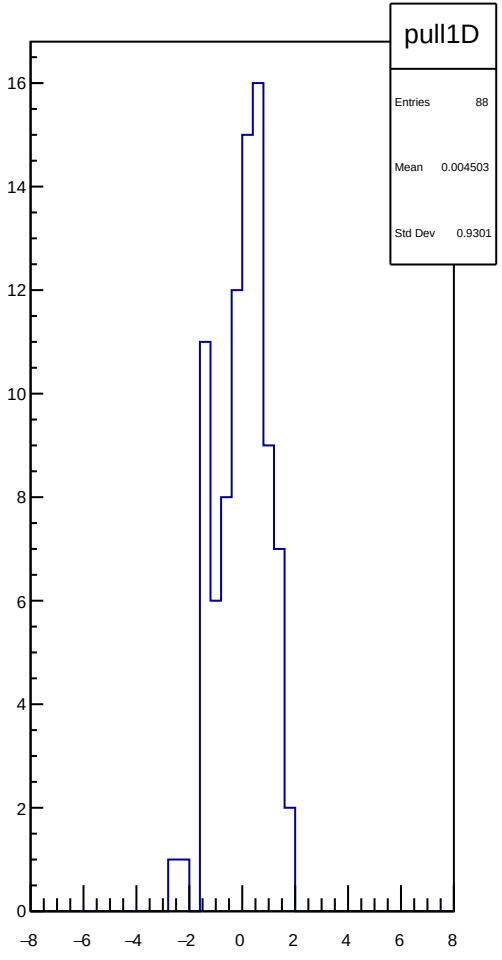

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 2.656e+04 / 87
p0 1178 ± 0.9128
1600
1500
1400
1300
1200
1100
1000


eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 67.5 / 87
p0 −165.8 ± 80.29
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 4416
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 88
Mean 0.0002105
Std Dev 0.8758
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.083e+04 / 87
p0 73.59 ± 0.05678
105
100
95
90
85
80
75
70
65


asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.13 / 87
p0 −3105 ± 1291
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 748.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 88
Mean 0.004503
Std Dev 0.9301
16
14
12
10
8
6
4
2
0
−8
−6
−4
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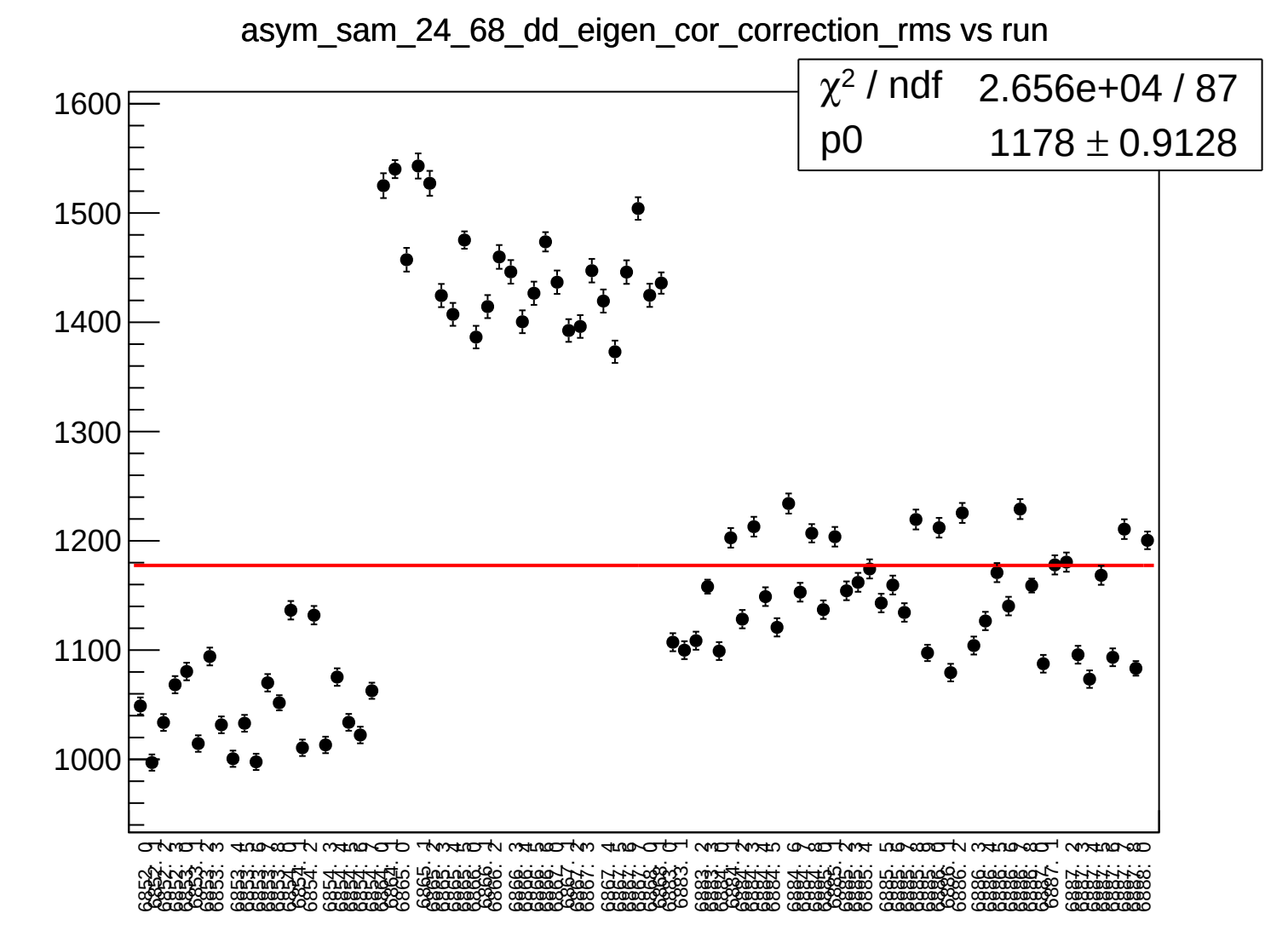
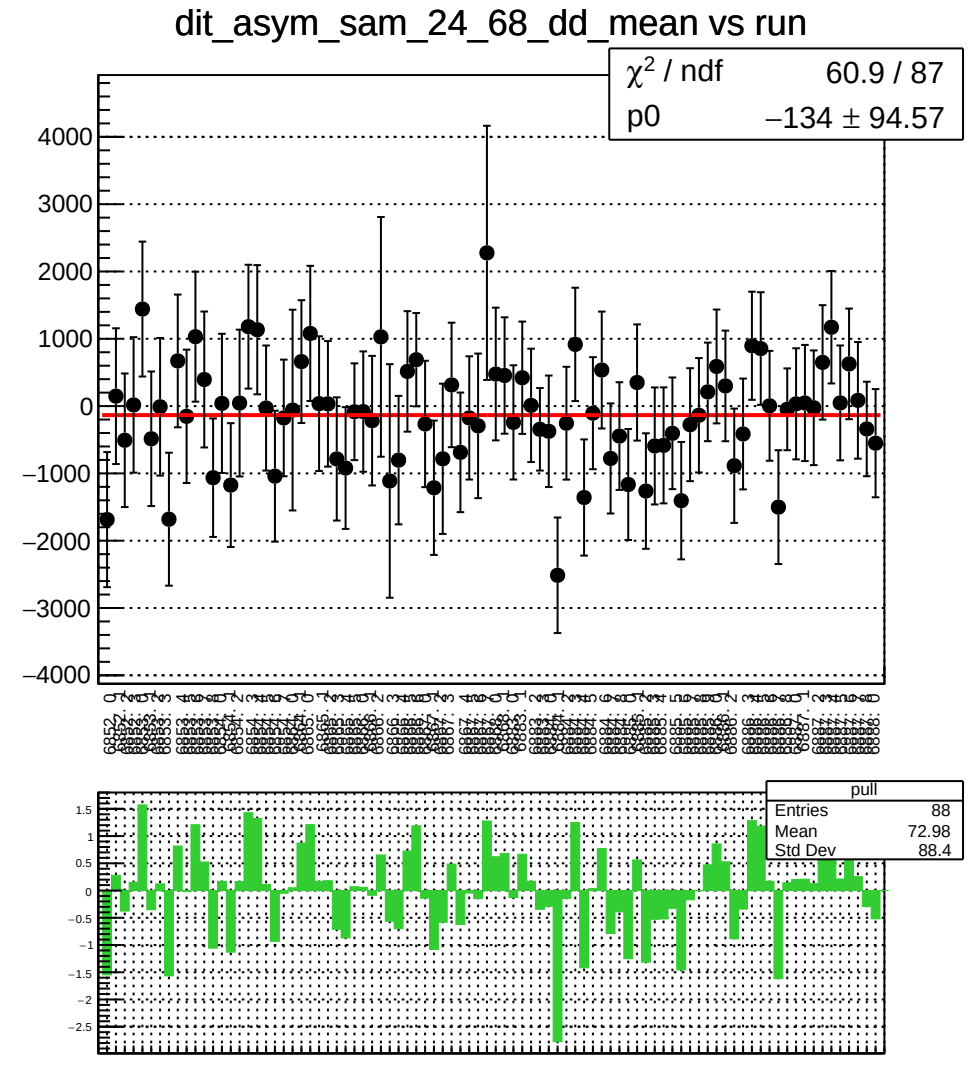
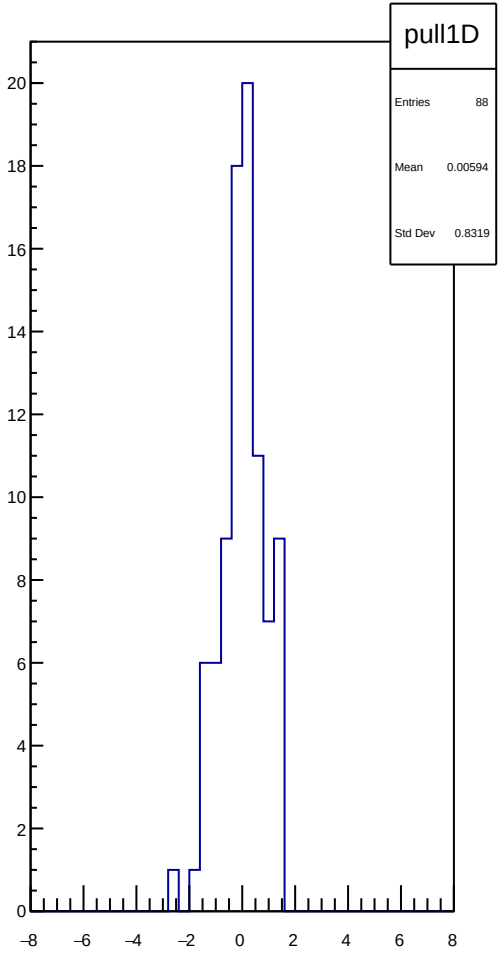
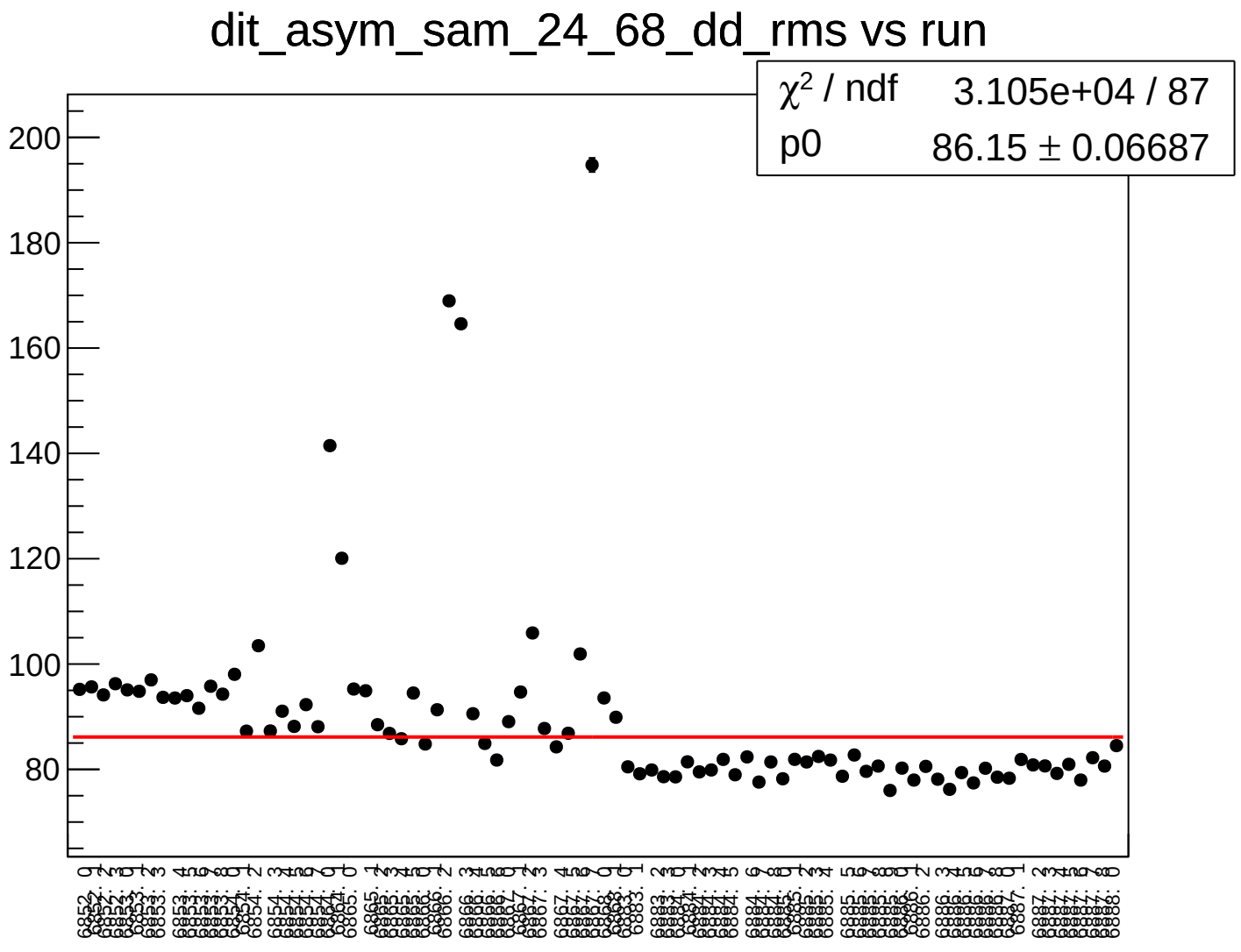
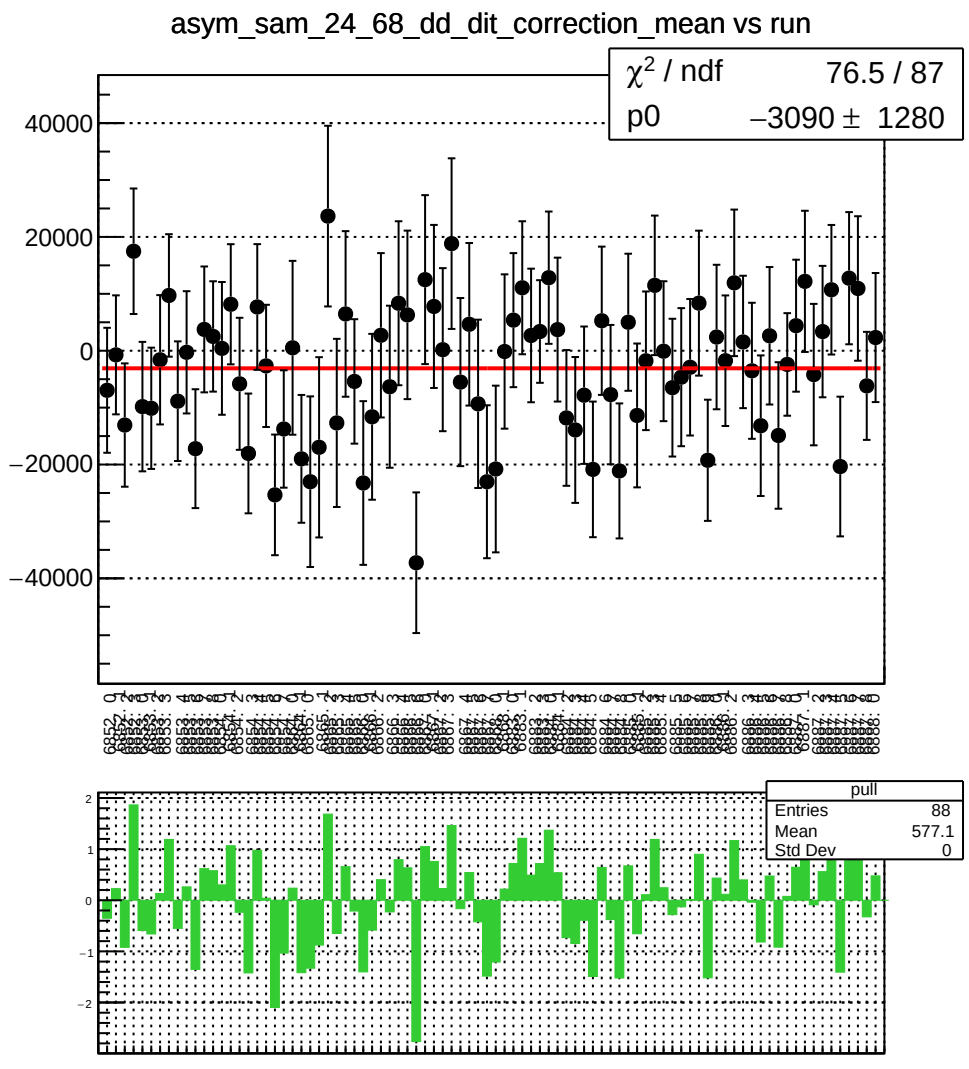
2
4
6
8

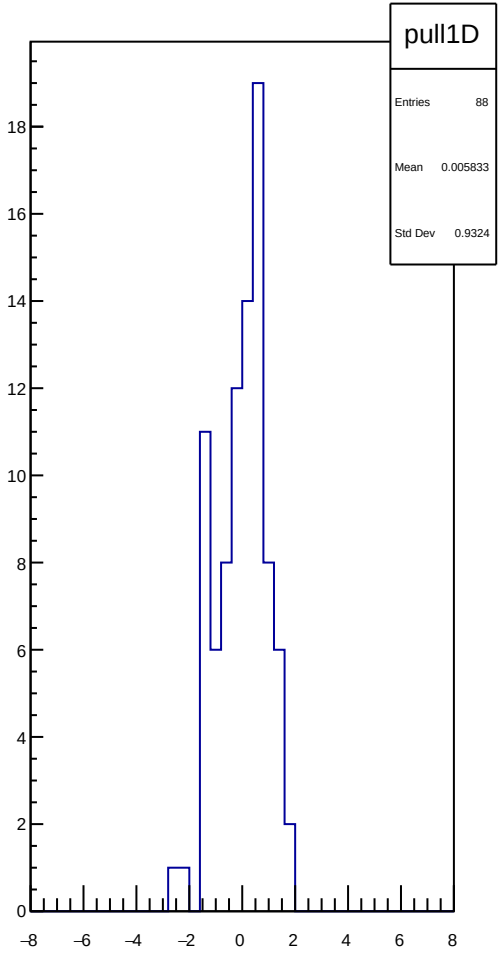

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.656e+04 / 87
p0 1178 ± 0.9128
1600
1500
1400
1300
1200
1100
1000

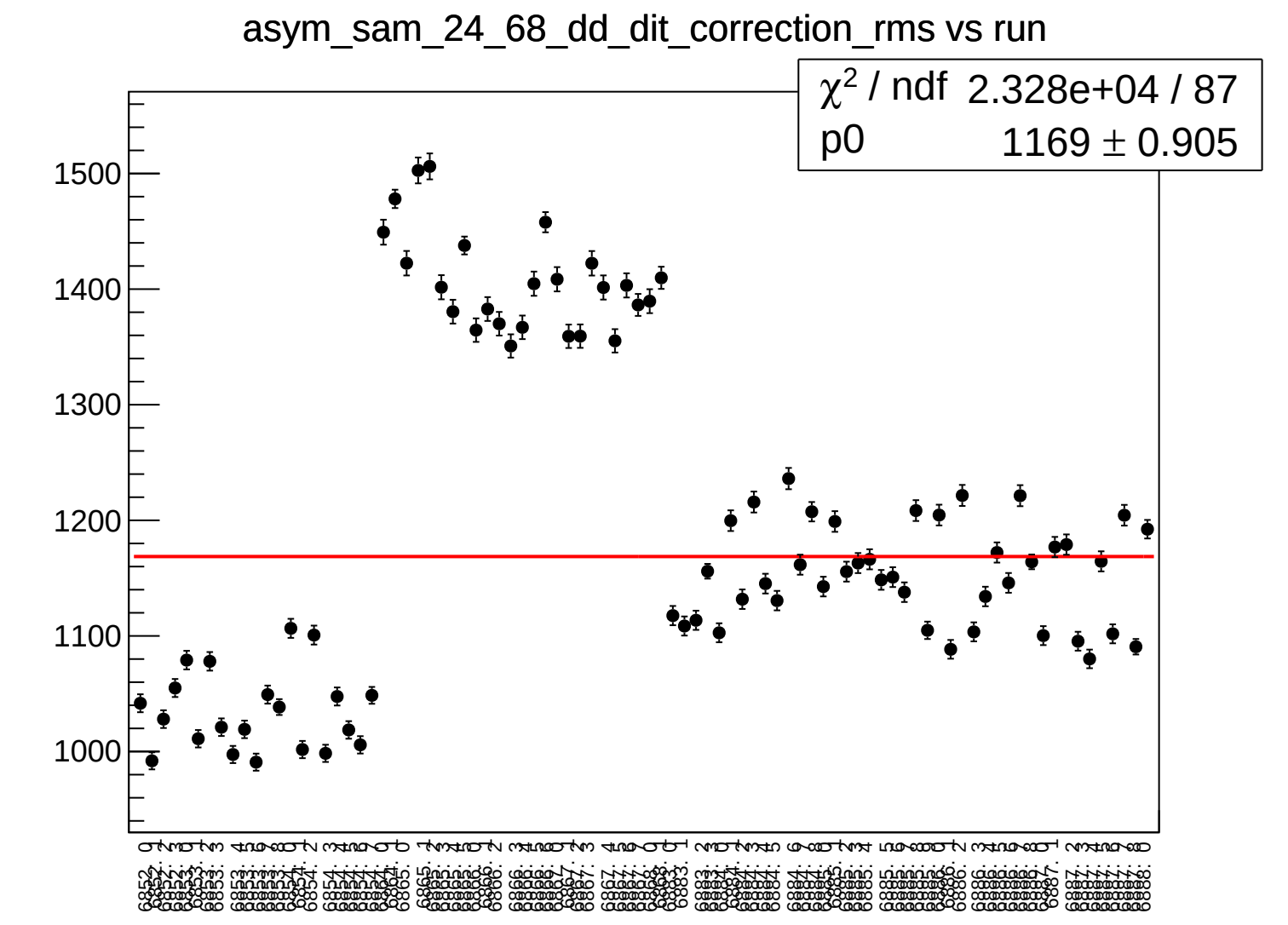

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 60.9 / 87
p0 −134 ± 94.57
pull
Entries 88
Mean 72.98
Std Dev 88.4

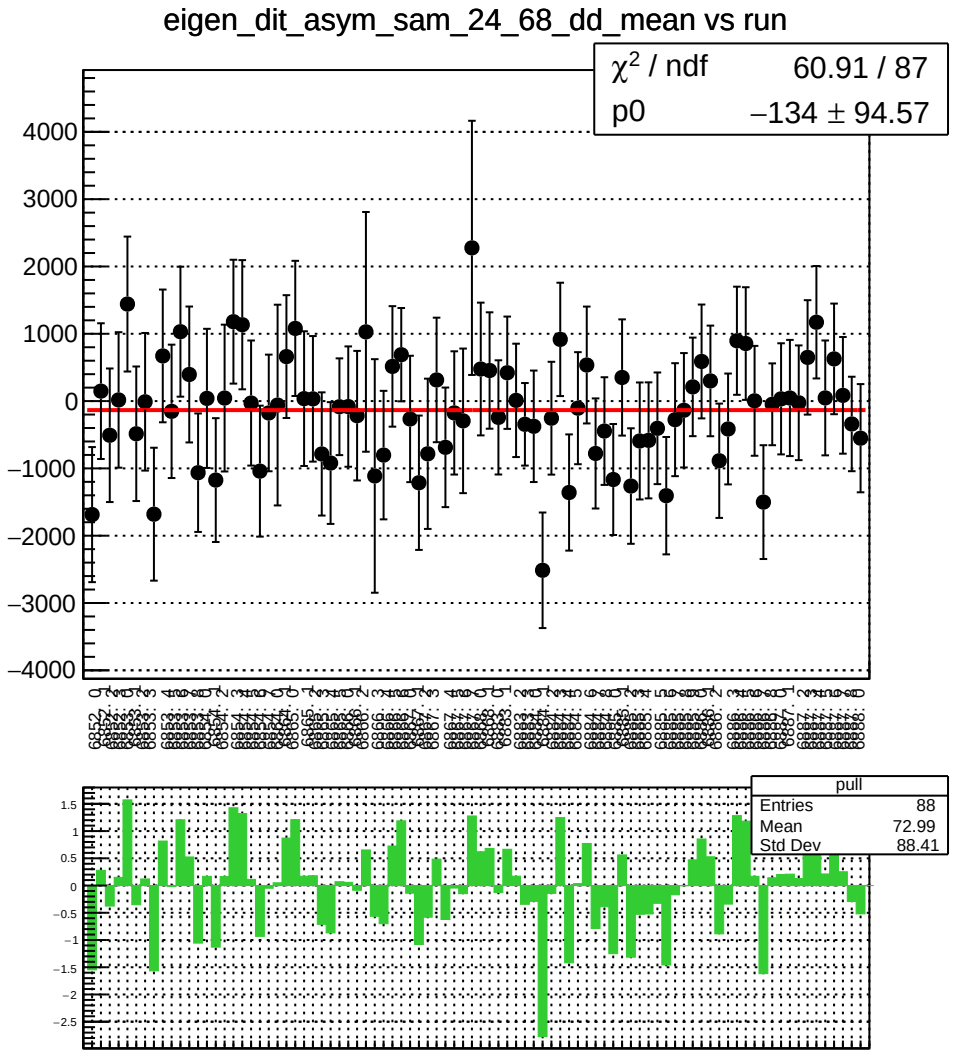

pull1D
Entries 88
Mean 0.00594
Std Dev 0.8319

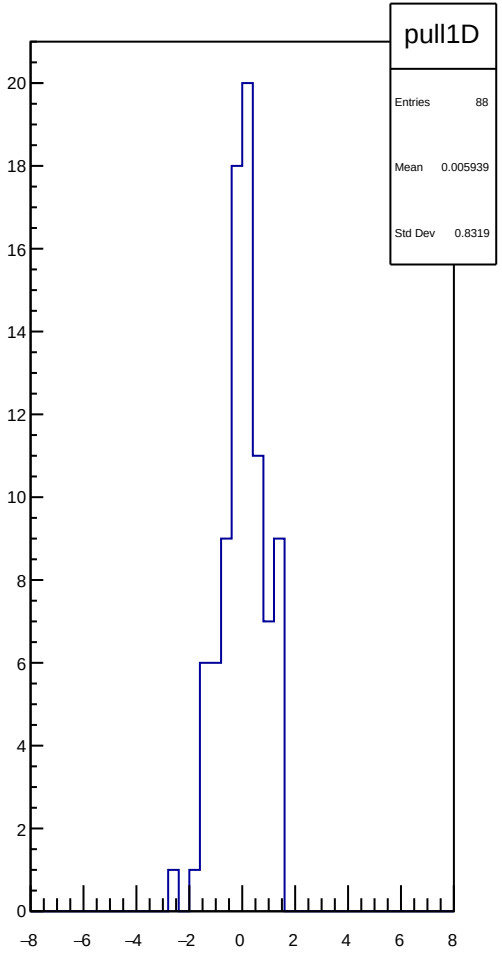

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 3.105e+04 / 87
p0 86.15 ± 0.06687
200
180
160
140
120
100
80

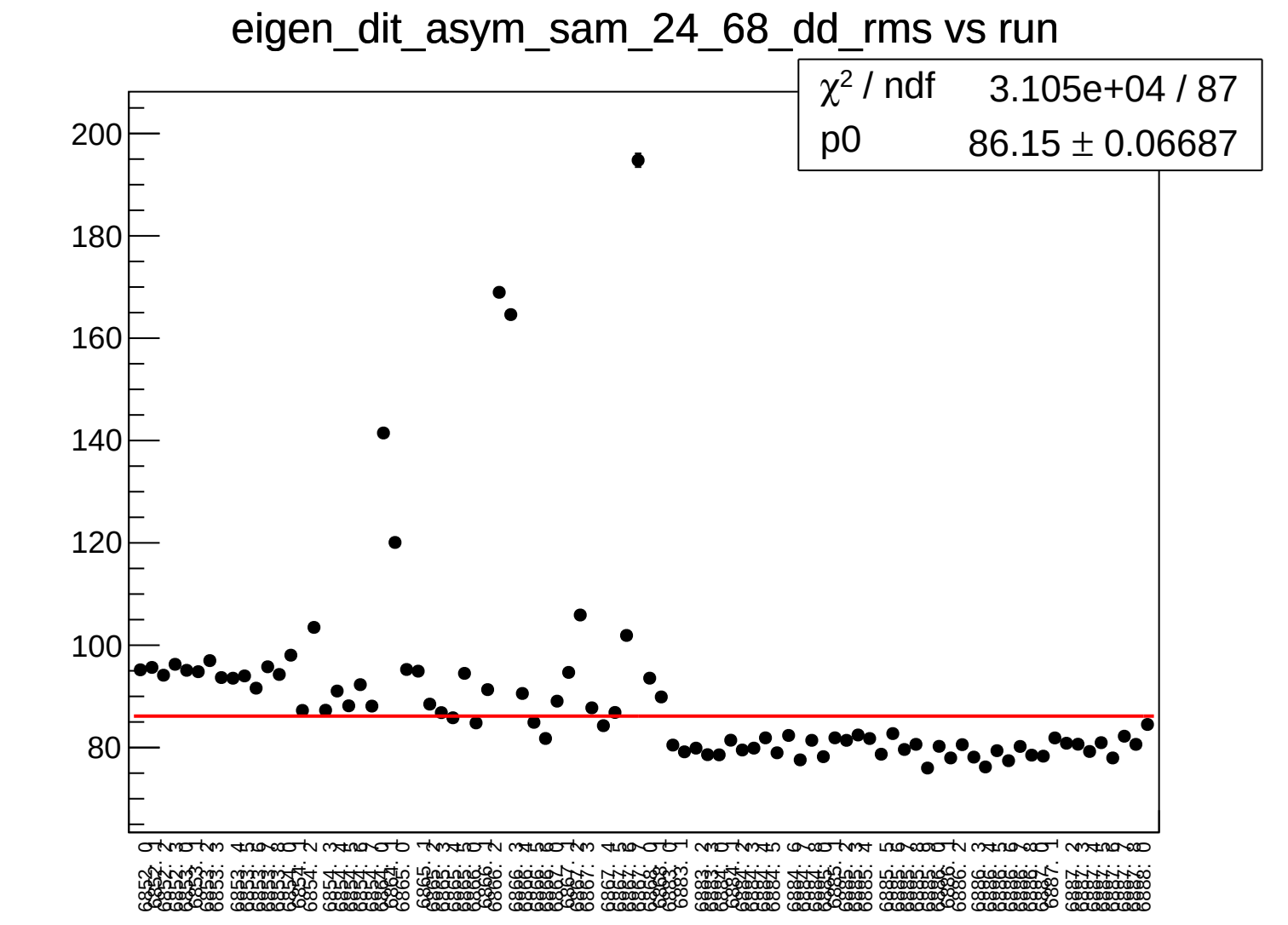

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 76.5 / 87
p0 −3090 ± 1280
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 577.1
Std Dev 0
2
1
0
−1
−2

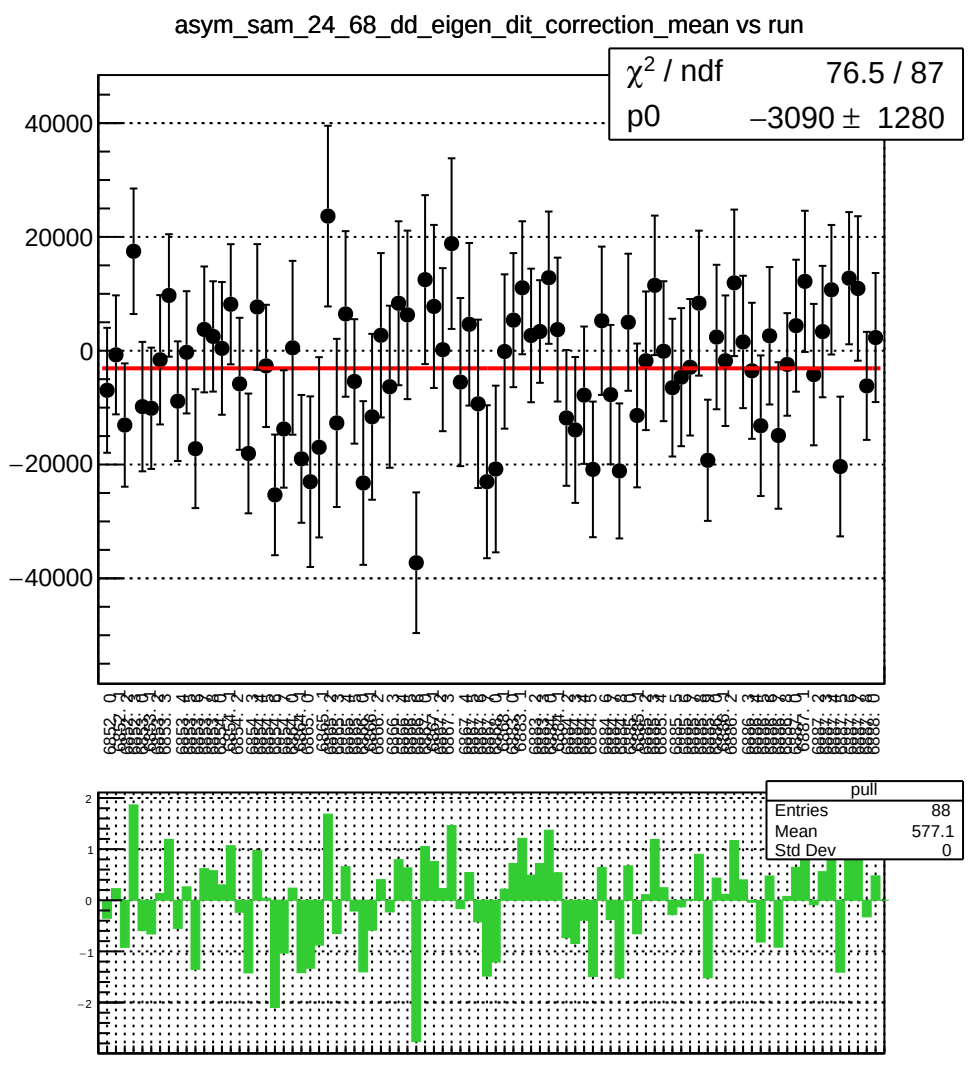

pull1D
Entries 88
Mean 0.005833
Std Dev 0.9324
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

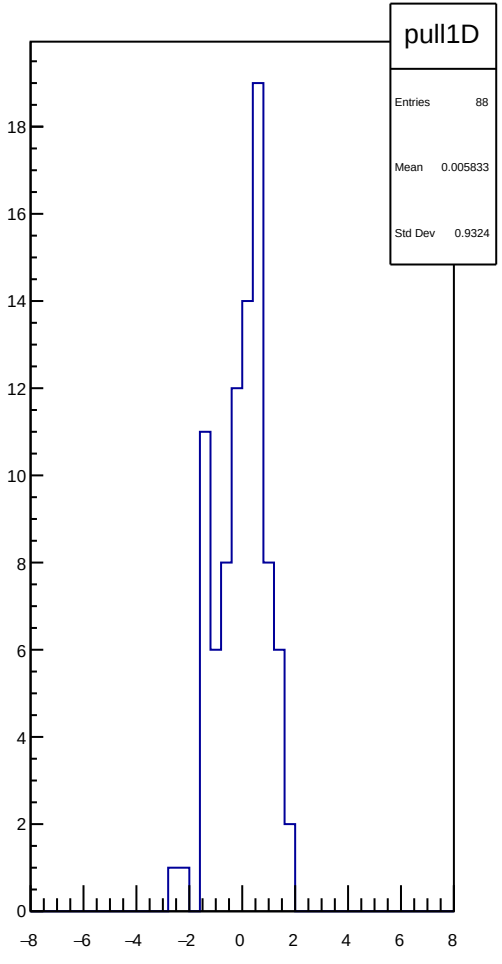

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 2.328e+04 / 87
p0 1169 ± 0.905
1500
1400
1300
1200
1100
1000

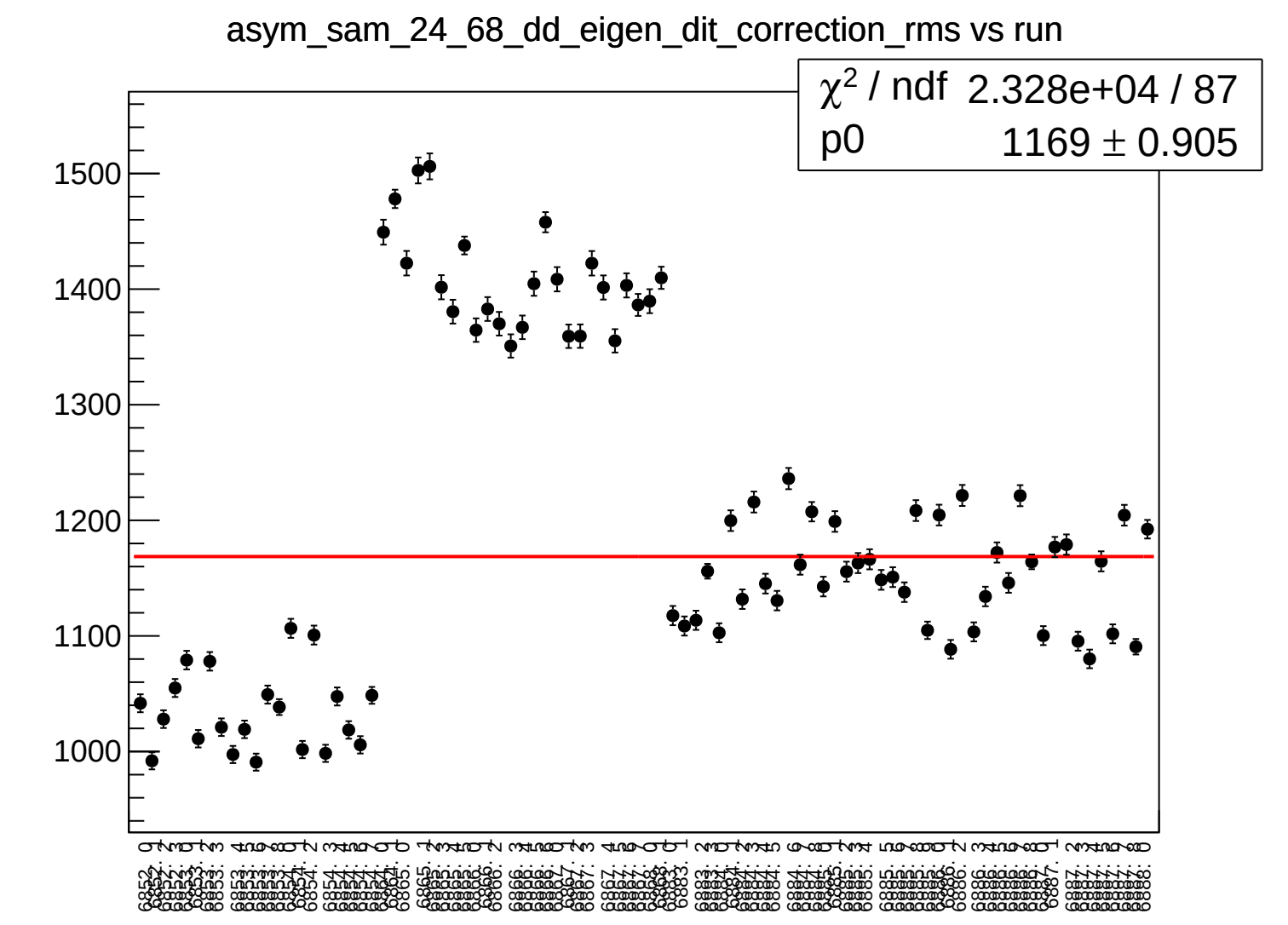

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 60.91 / 87
p0 −134 ± 94.57
pull
Entries 88
Mean 72.99
Std Dev 88.41

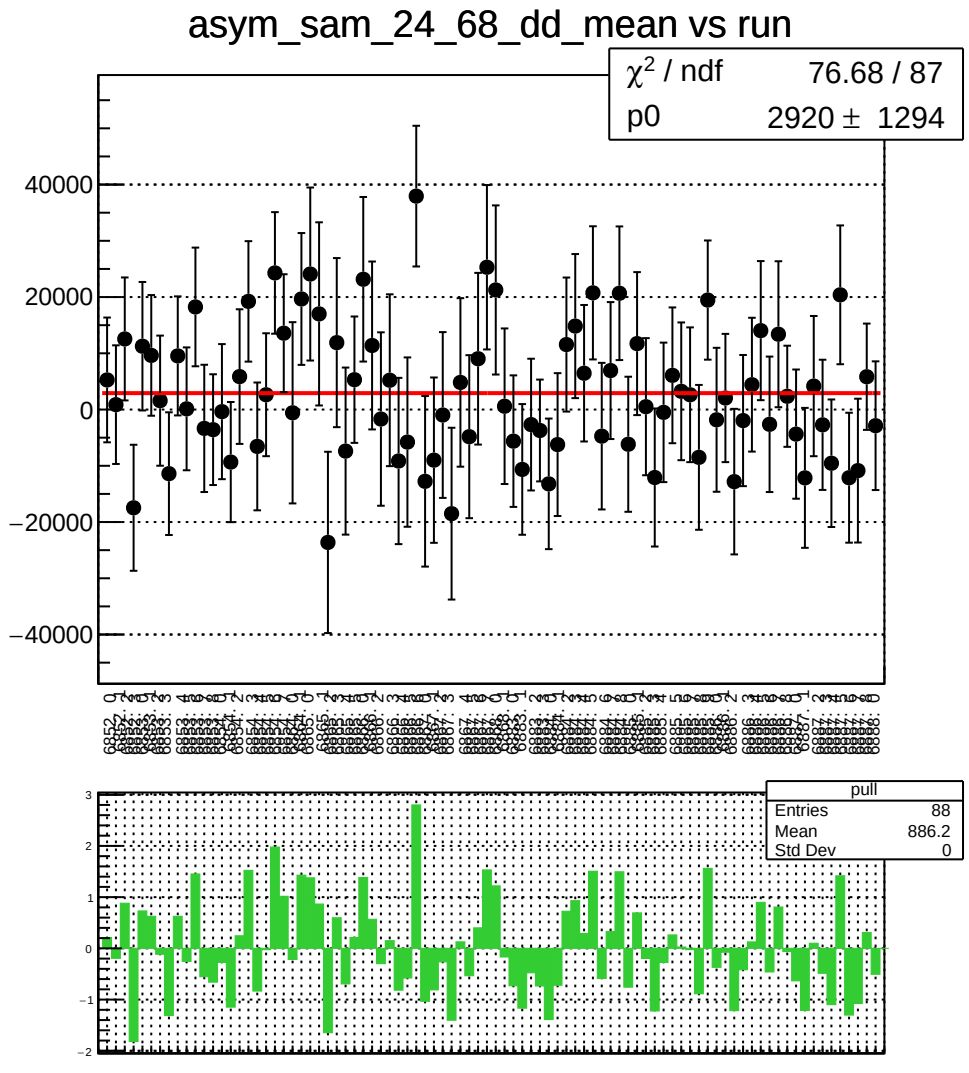

pull1D
Entries 88
Mean 0.005939
Std Dev 0.8319

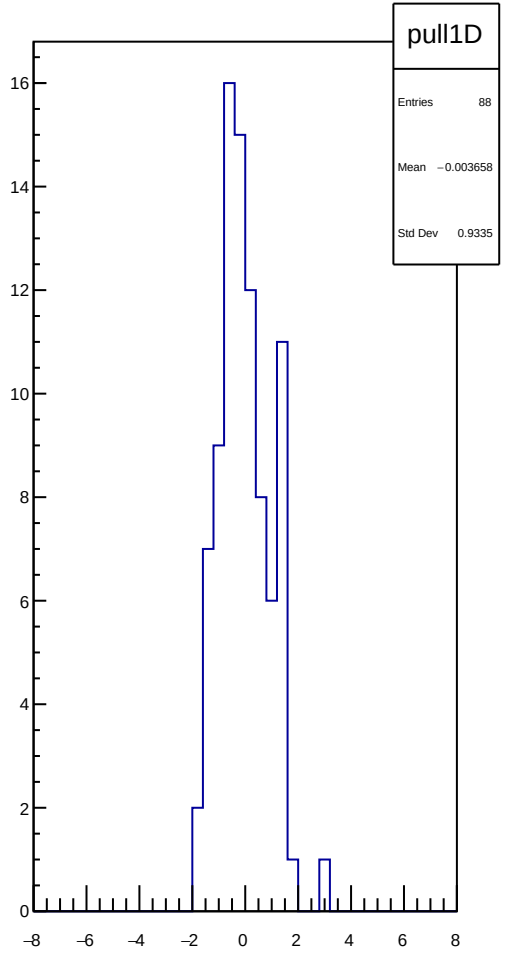

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 3.105e+04 / 87
p0 86.15 ± 0.06687
200
180
160
140
120
100
80

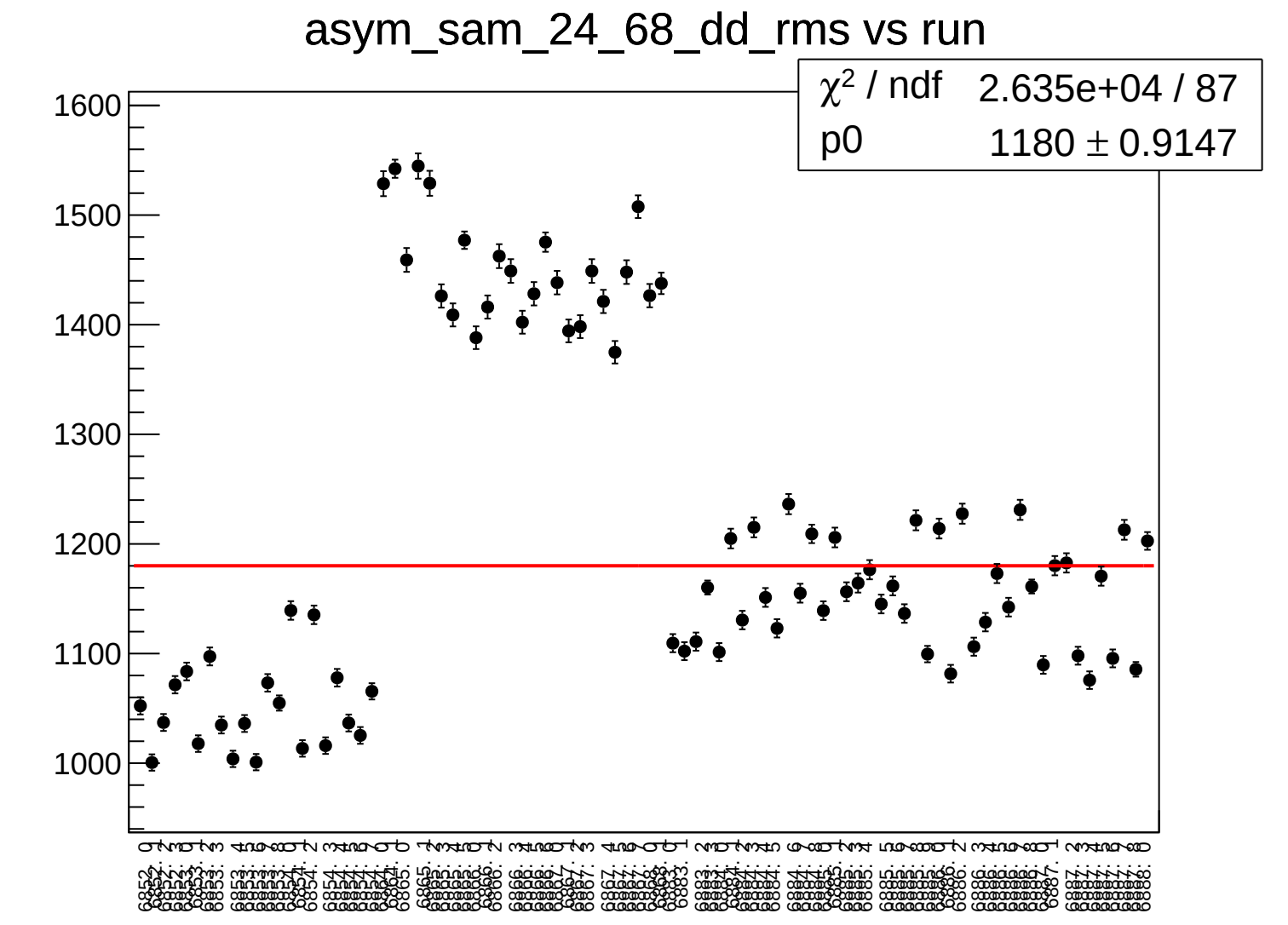

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.5 / 87
p0 −3090 ± 1280
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 577.1
Std Dev 0
2
1
0
−1
−2

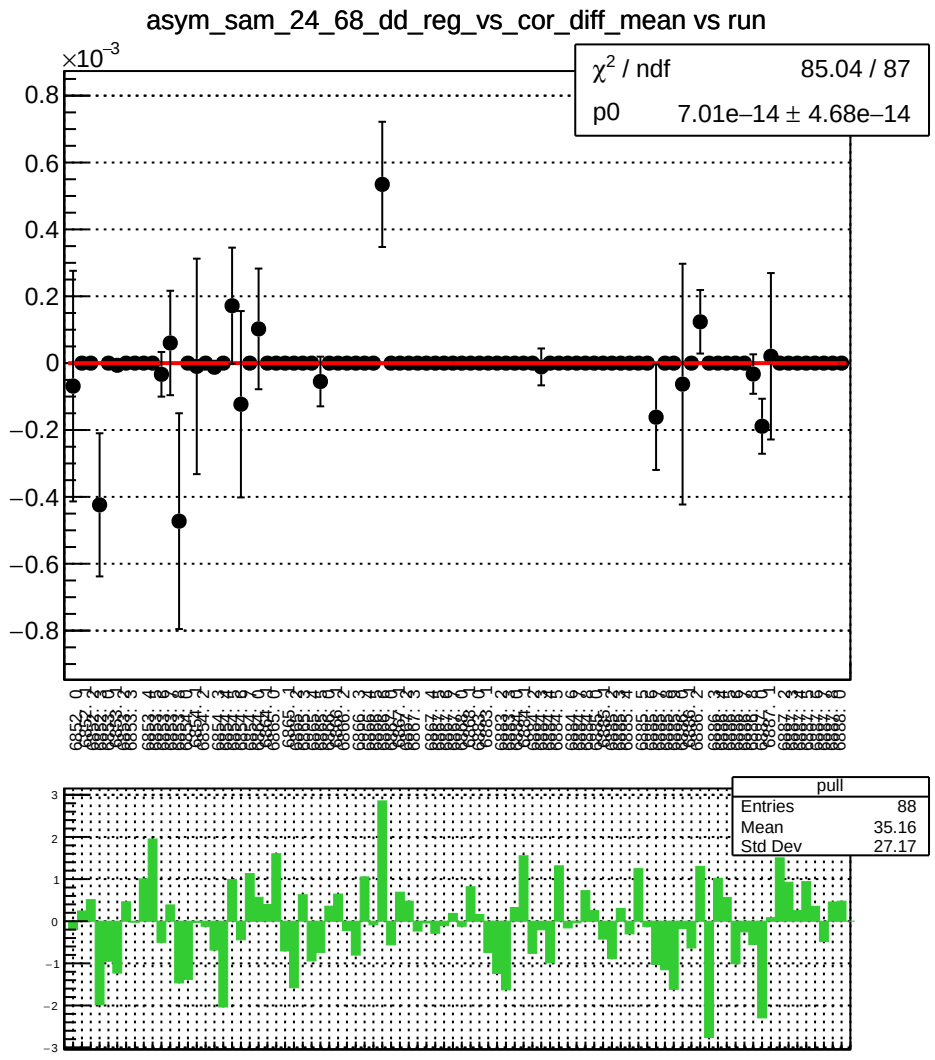

pull1D
Entries 88
Mean 0.005833
Std Dev 0.9324
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

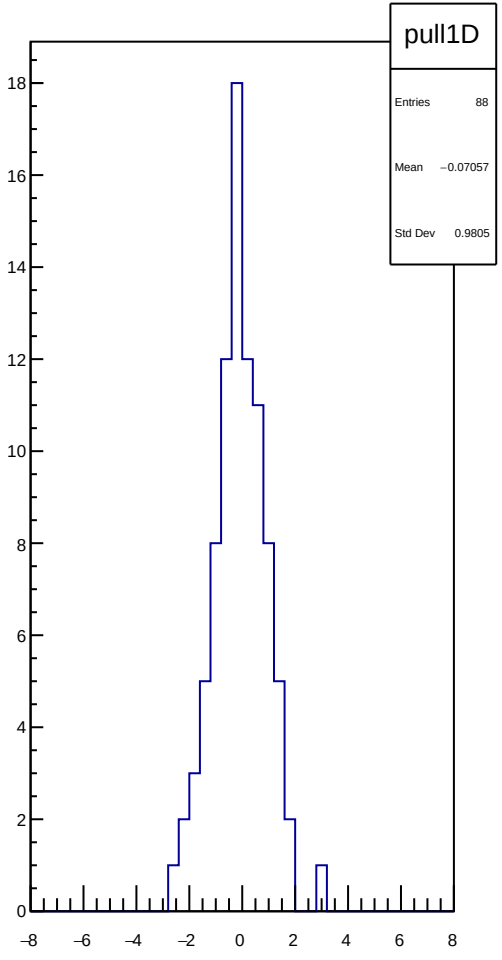

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.328e+04 / 87
p0 1169 ± 0.905
1500
1400
1300
1200
1100
1000

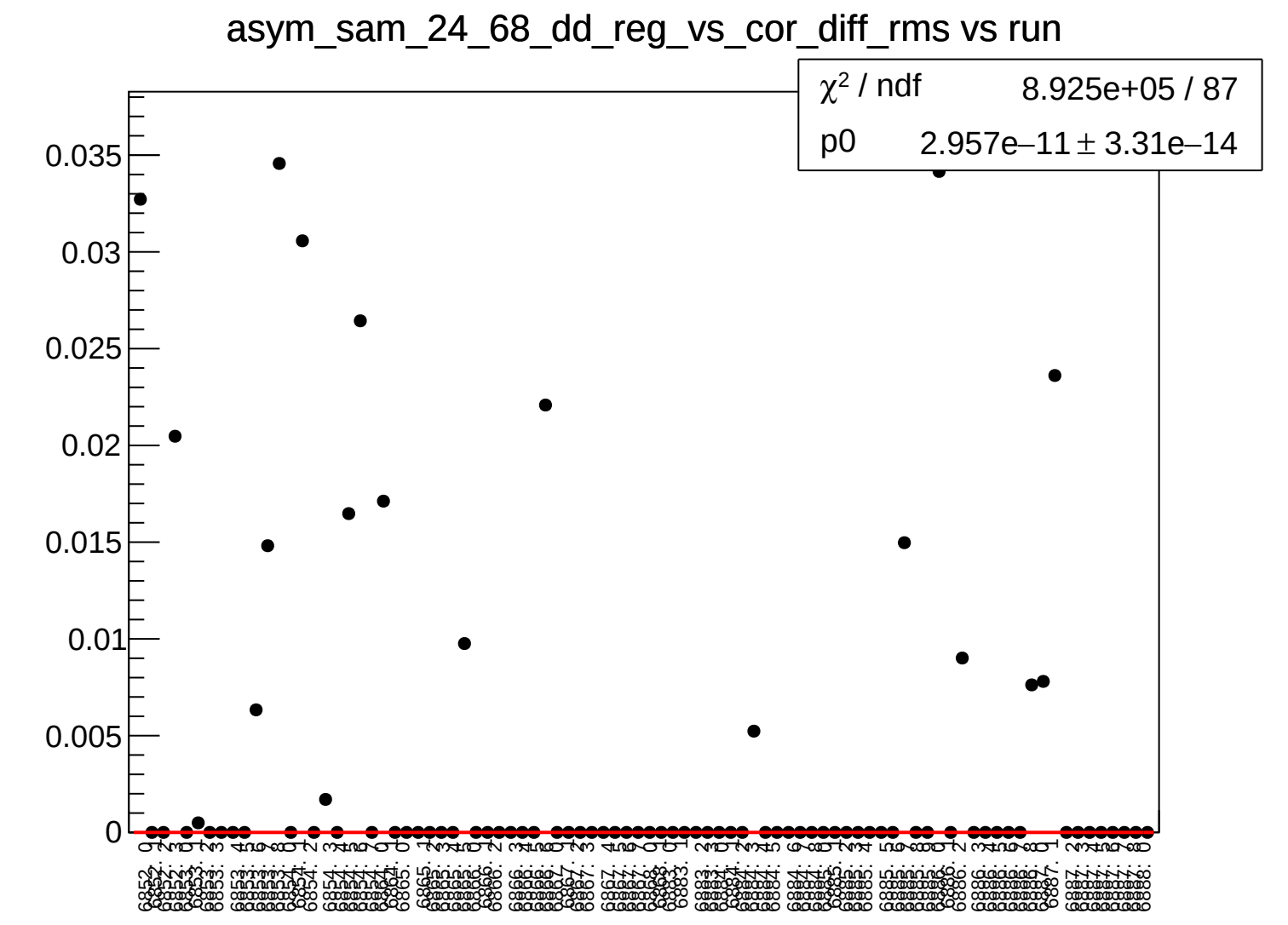

asym_sam_24_68_dd_mean vs run
χ² / ndf 76.68 / 87
p0 2920 ± 1294
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 886.2
Std Dev 0
3
2
1
0
−1
−2

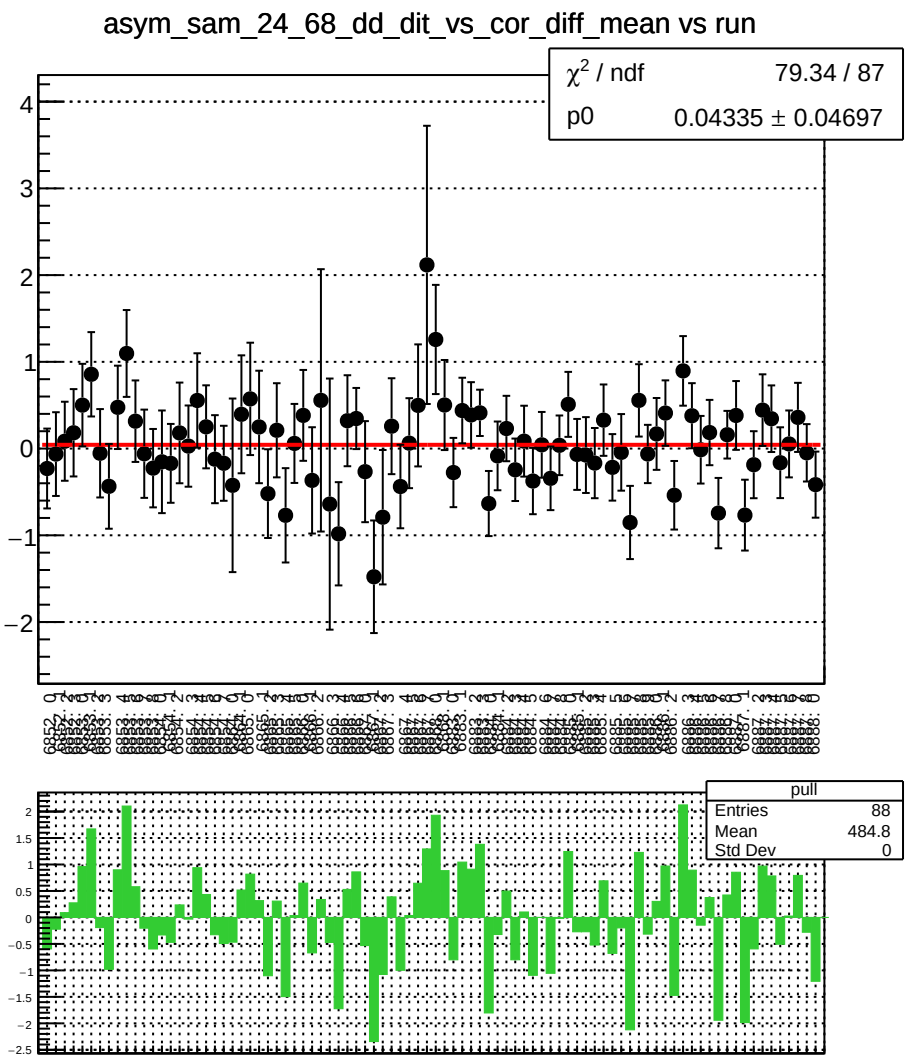

pull1D
Entries 88
Mean −0.003658
Std Dev 0.9335
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

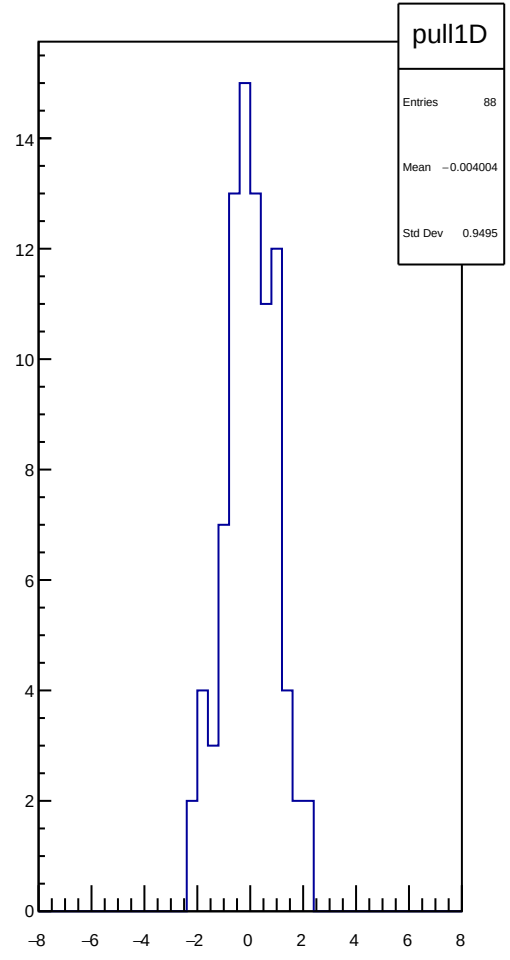

asym_sam_24_68_dd_rms vs run
χ² / ndf 2.635e+04 / 87
p0 1180 ± 0.9147
1600
1500
1400
1300
1200
1100
1000

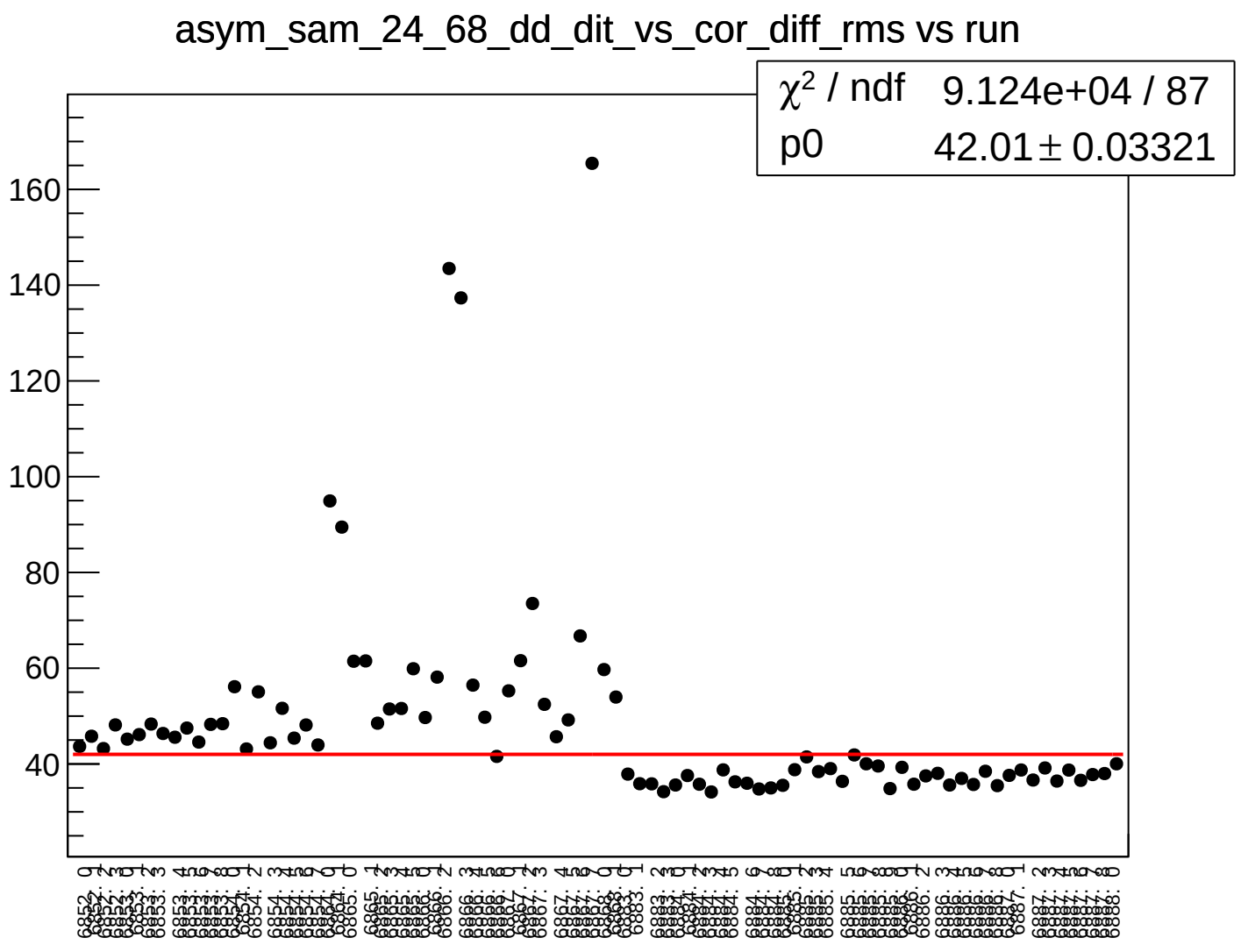

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 85.04 / 87
p0 7.01e−14 ± 4.68e−14
pull
Entries 88
Mean 35.16
Std Dev 27.17

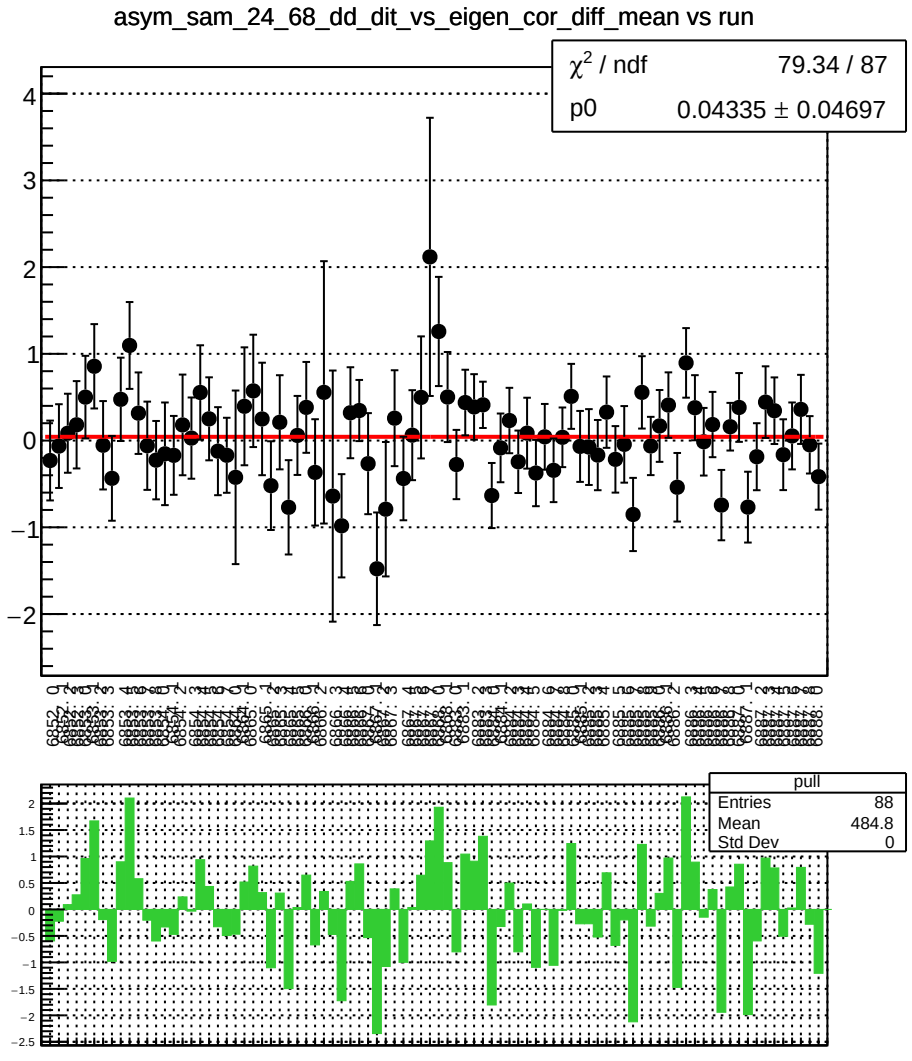

pull1D
Entries 88
Mean −0.07057
Std Dev 0.9805

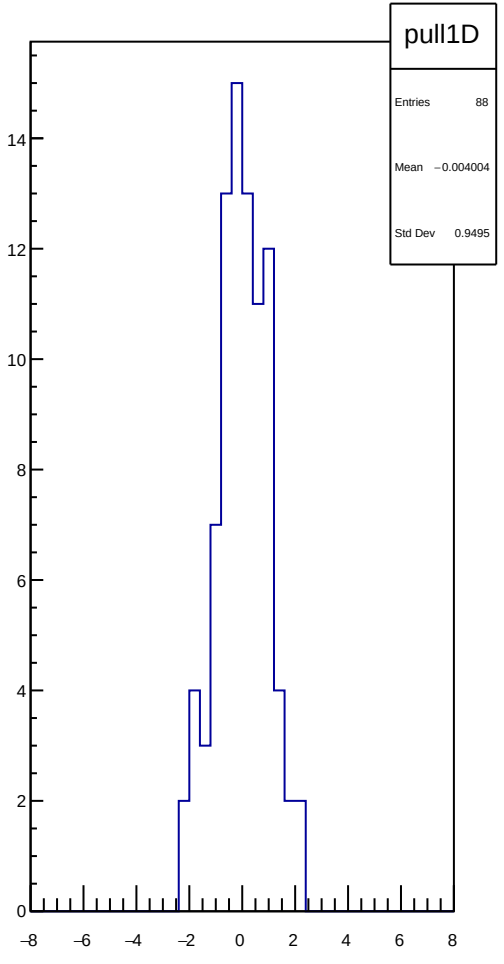

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.925e+05 / 87
p0 2.957e−11 ± 3.31e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

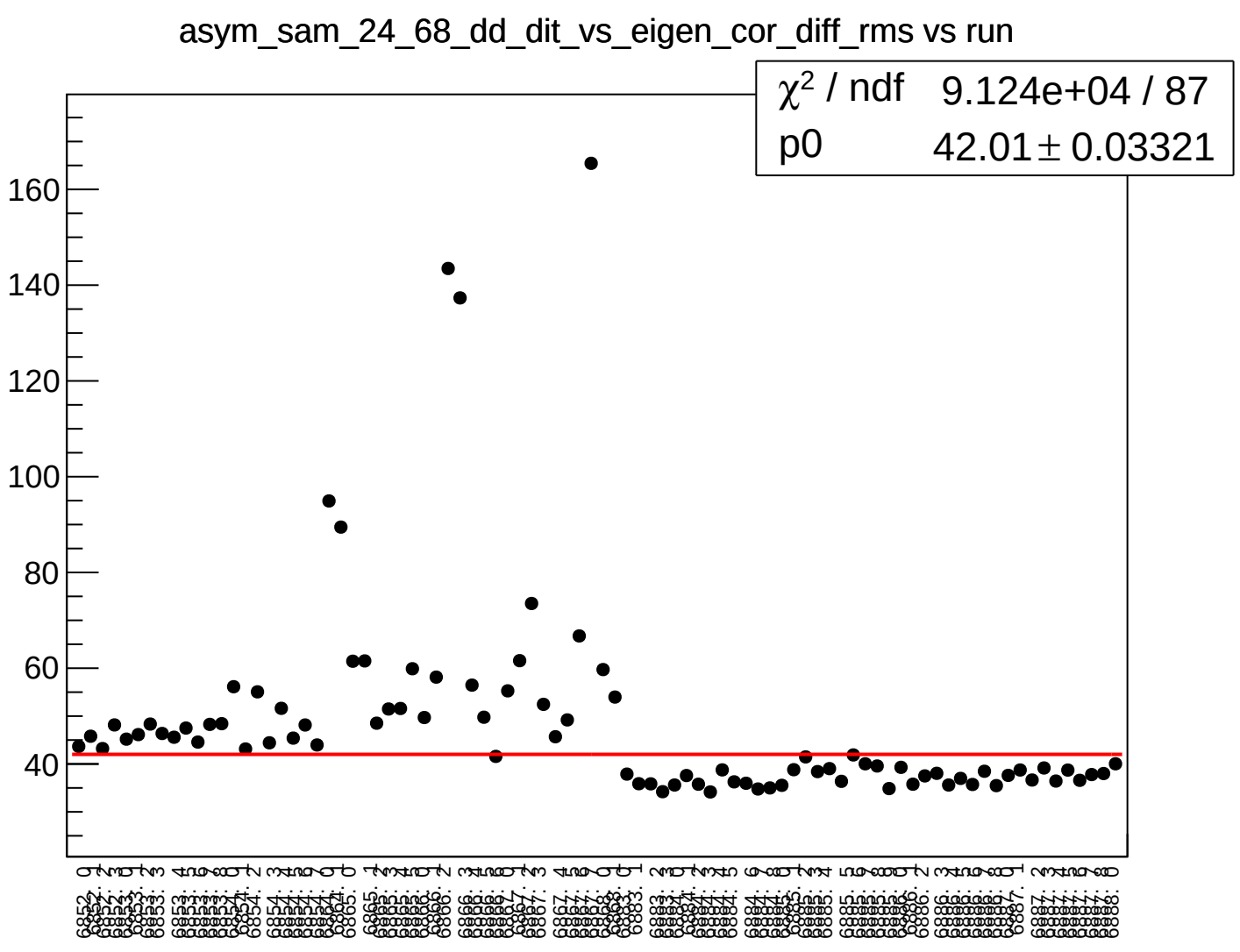

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.34 / 87
p0 0.04335 ± 0.04697
pull
Entries 88
Mean 484.8
Std Dev 0

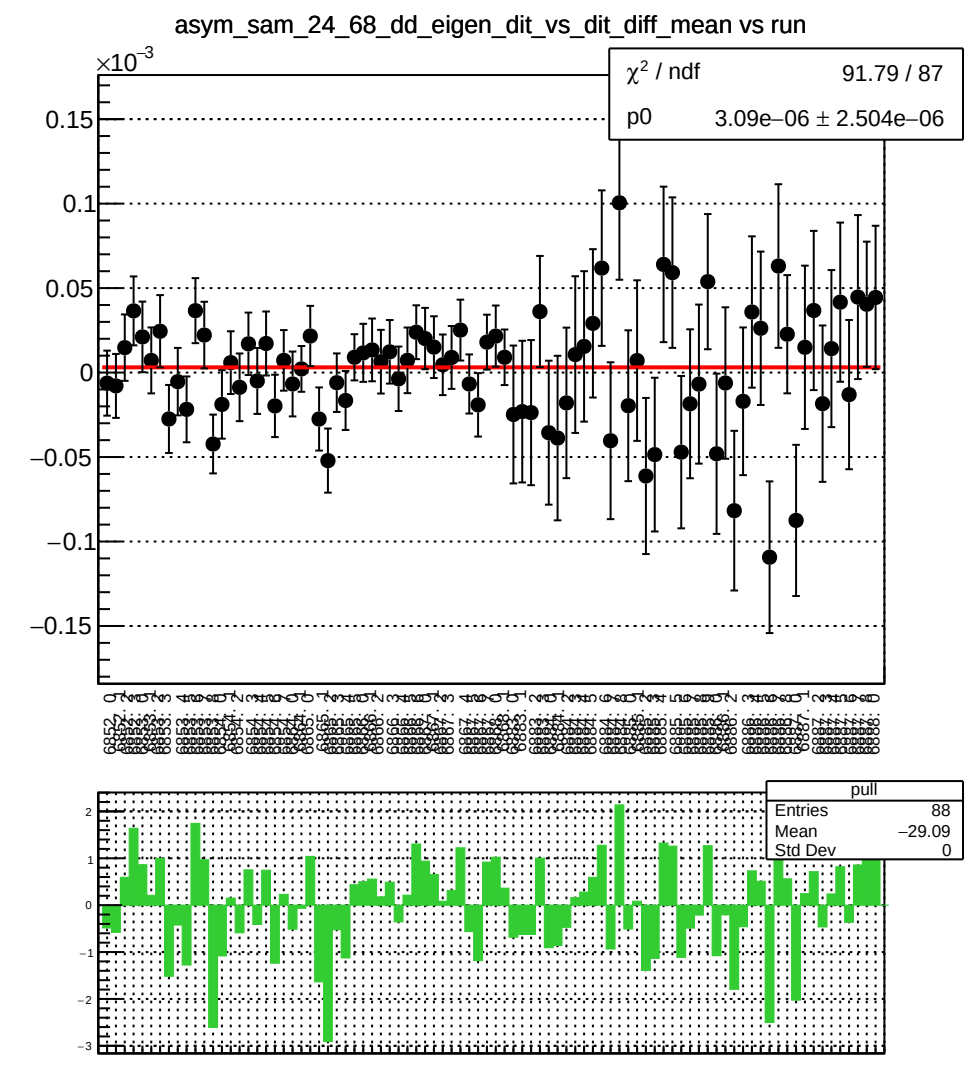

pull1D
Entries 88
Mean −0.004004
Std Dev 0.9495

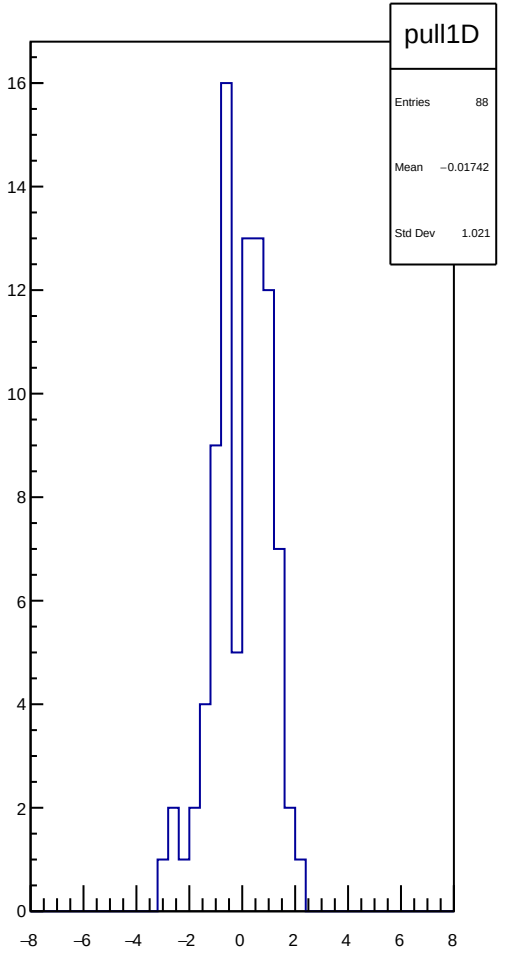

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.124e+04 / 87
p0 42.01 ± 0.03321
160
140
120
100
80
60
40

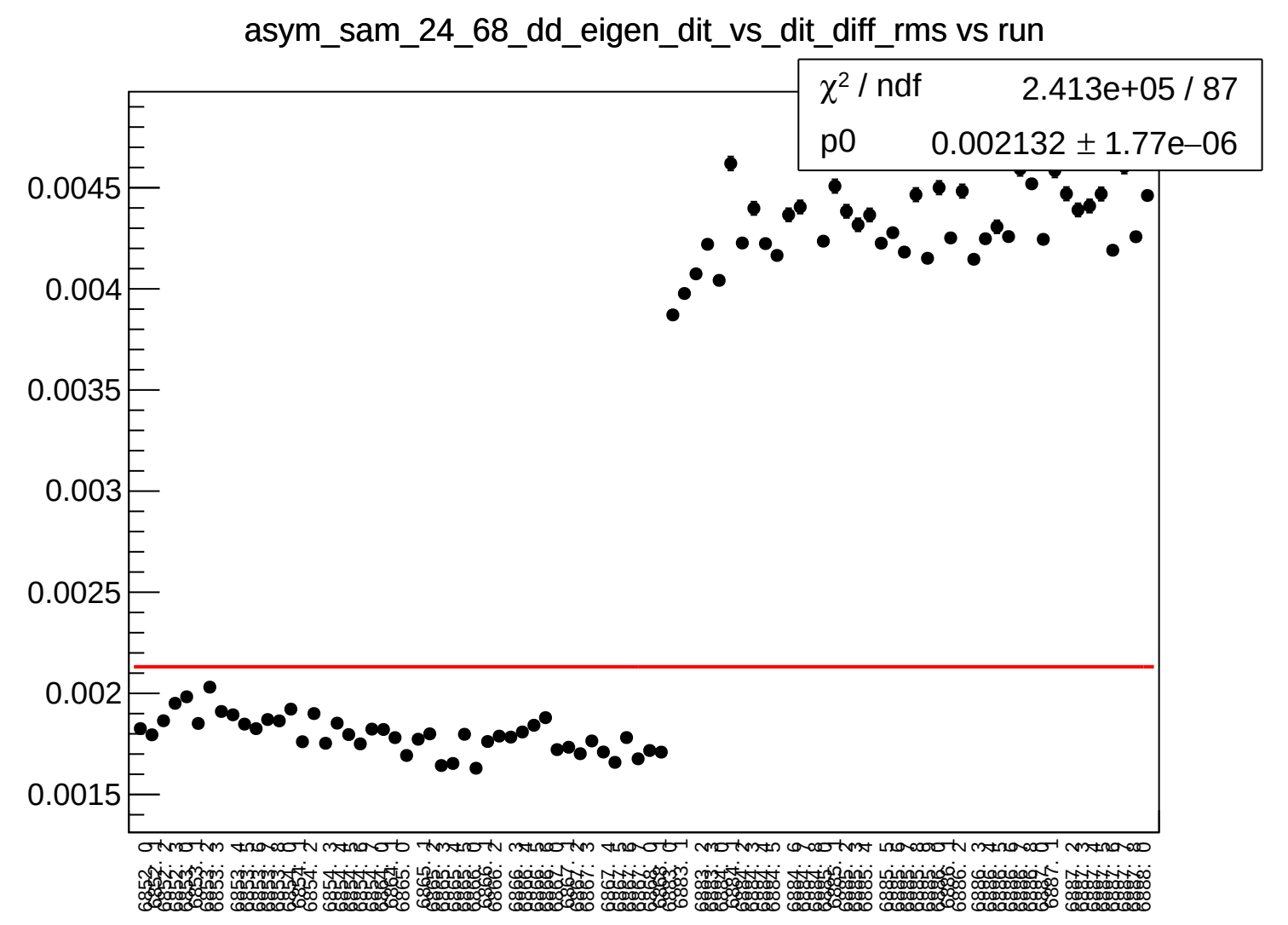

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.34 / 87
p0 0.04335 ± 0.04697
pull
Entries 88
Mean 484.8
Std Dev 0

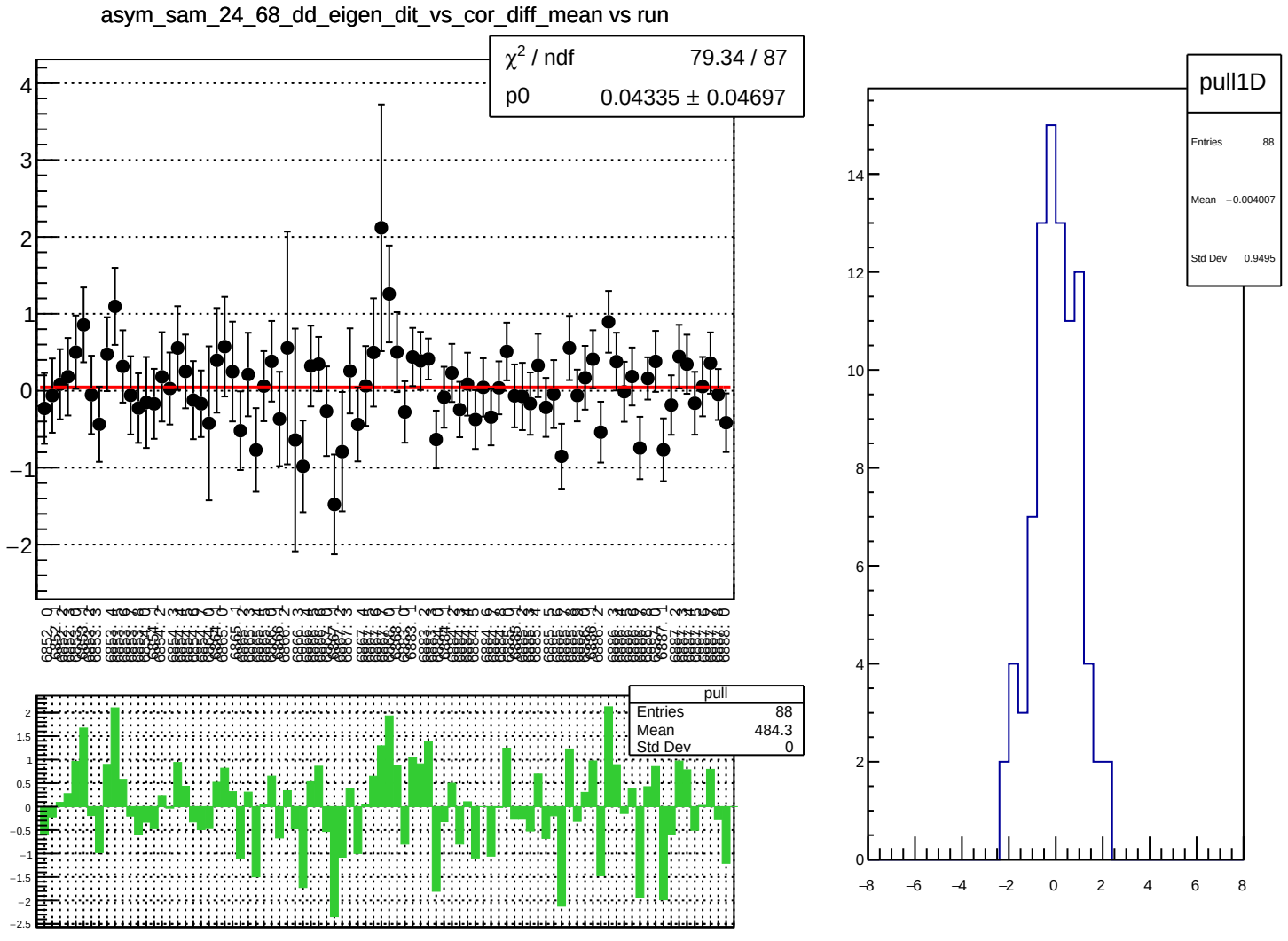

pull1D
Entries 88
Mean −0.004004
Std Dev 0.9495

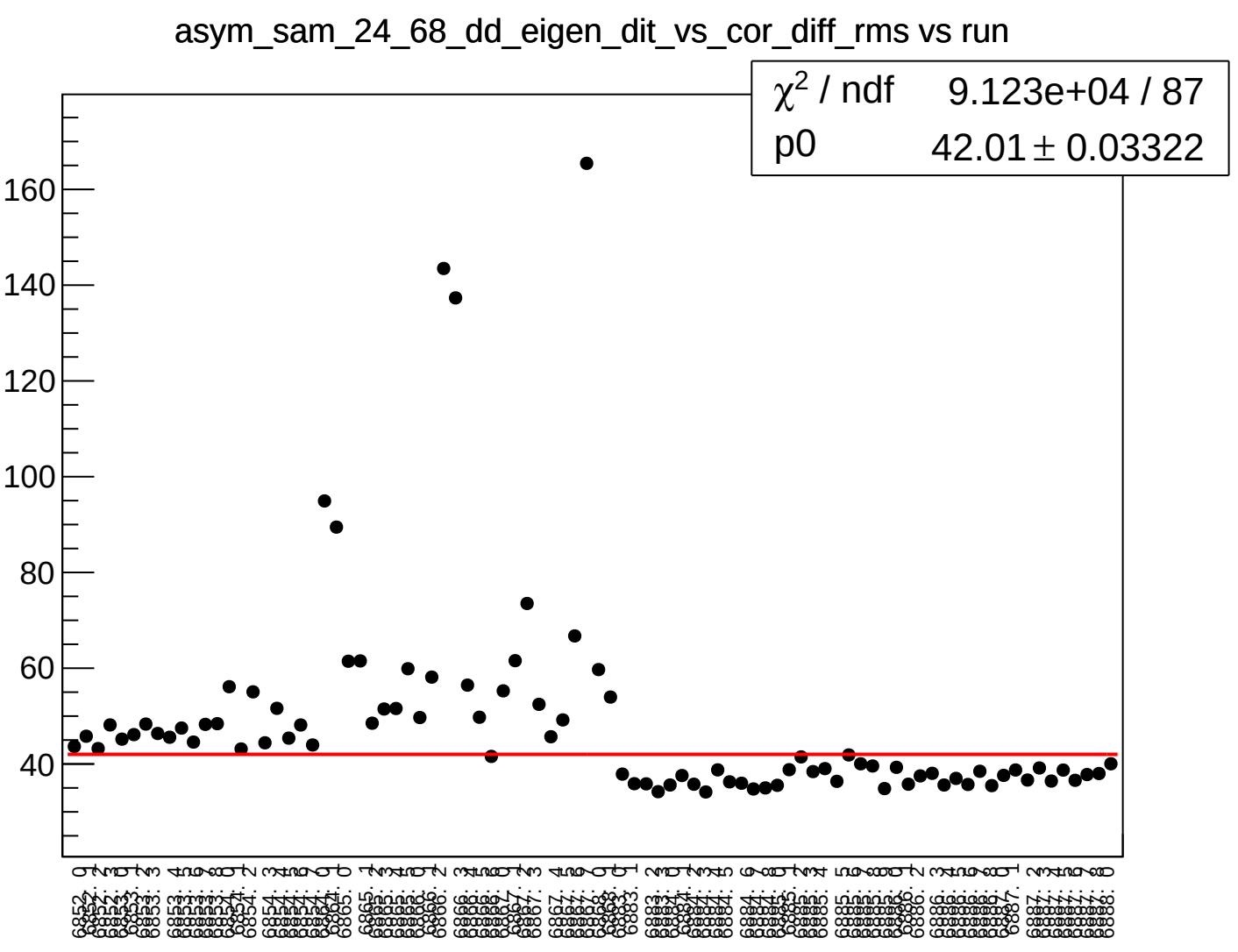

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.124e+04 / 87
p0 42.01 ± 0.03321
160
140
120
100
80
60
40

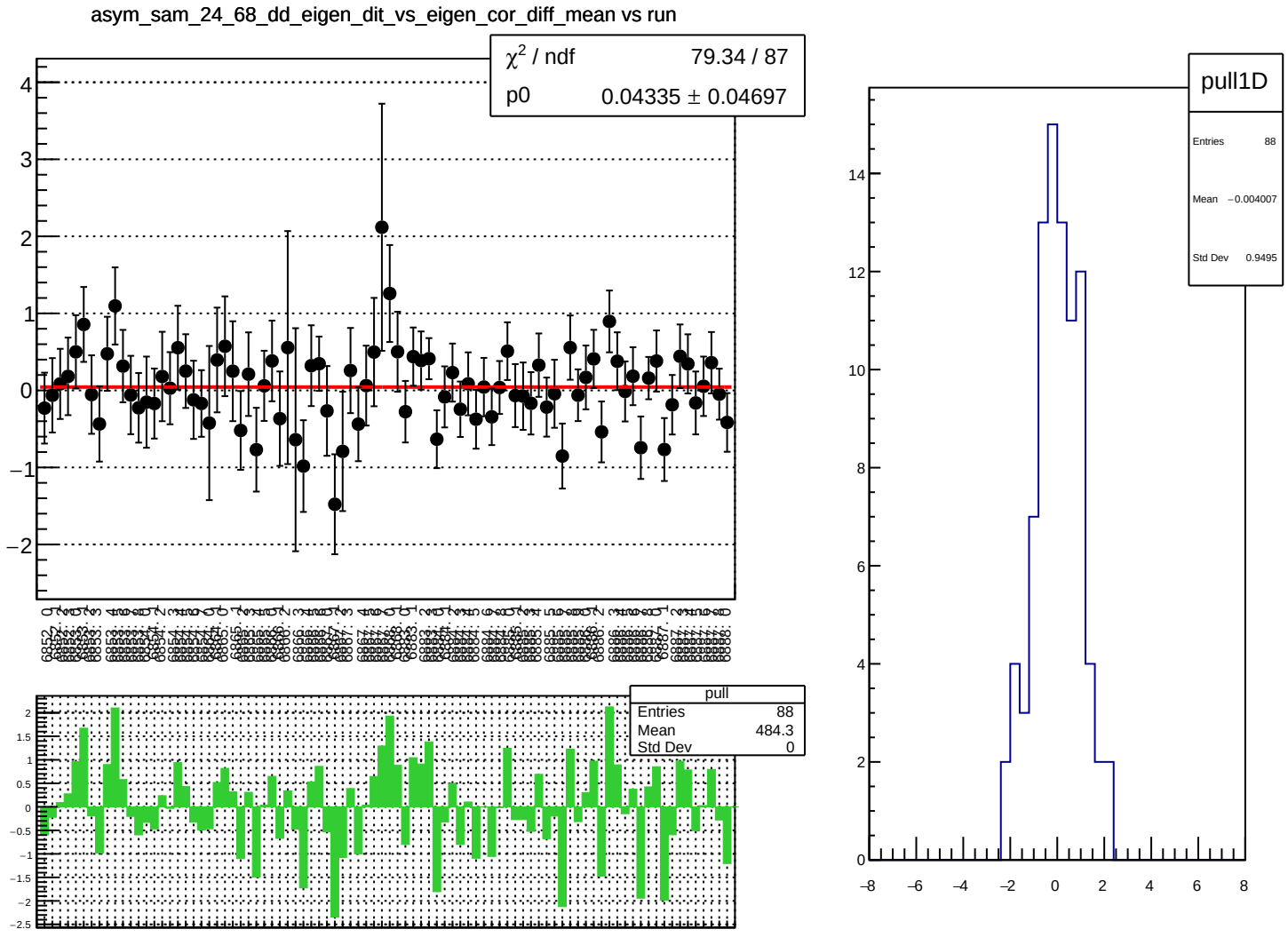

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.79 / 87
p0 3.09e−06 ± 2.504e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean −29.09
Std Dev 0
2
1
0
−1
−2
−3

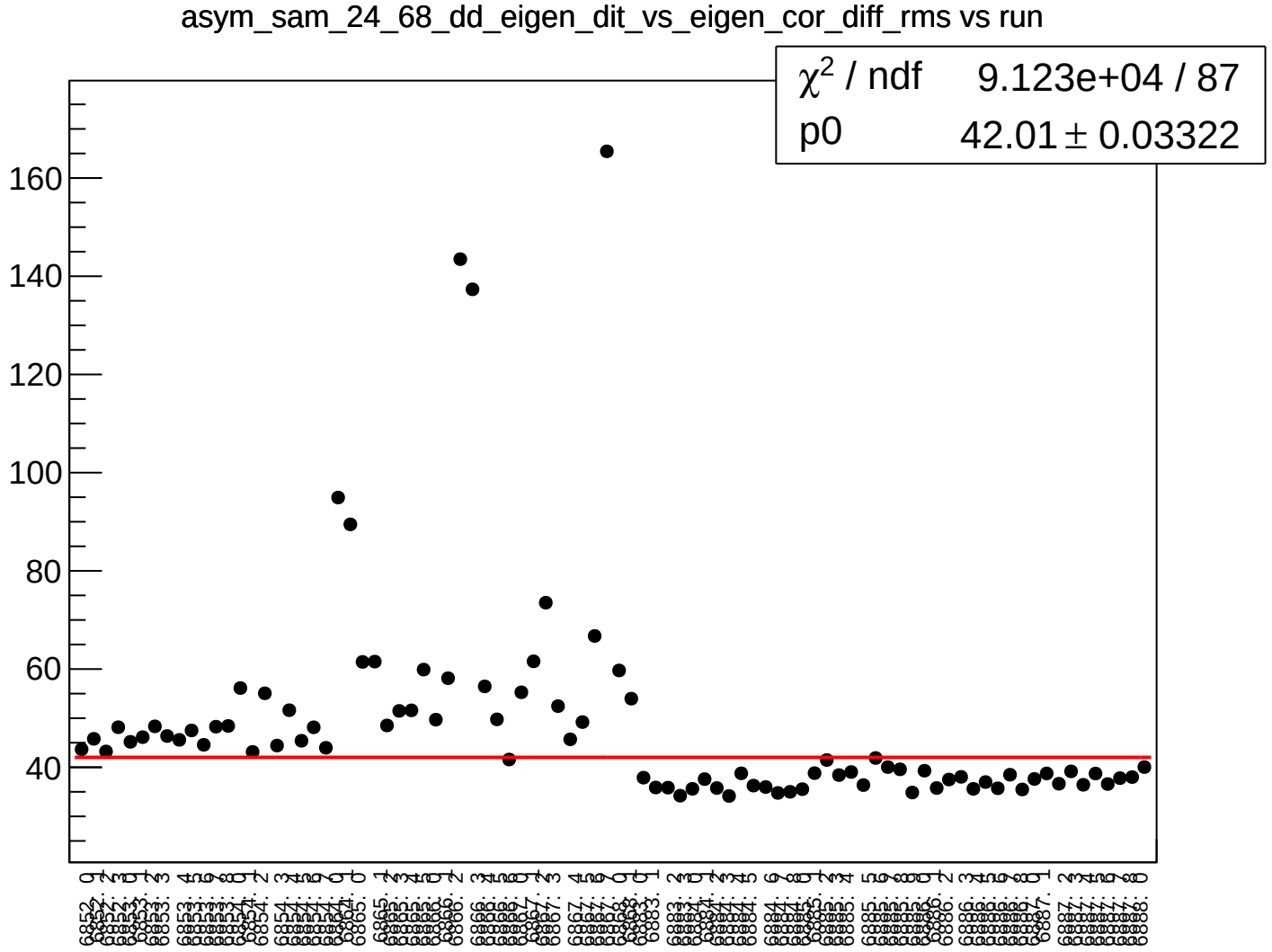

pull1D
Entries 88
Mean −0.01742
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

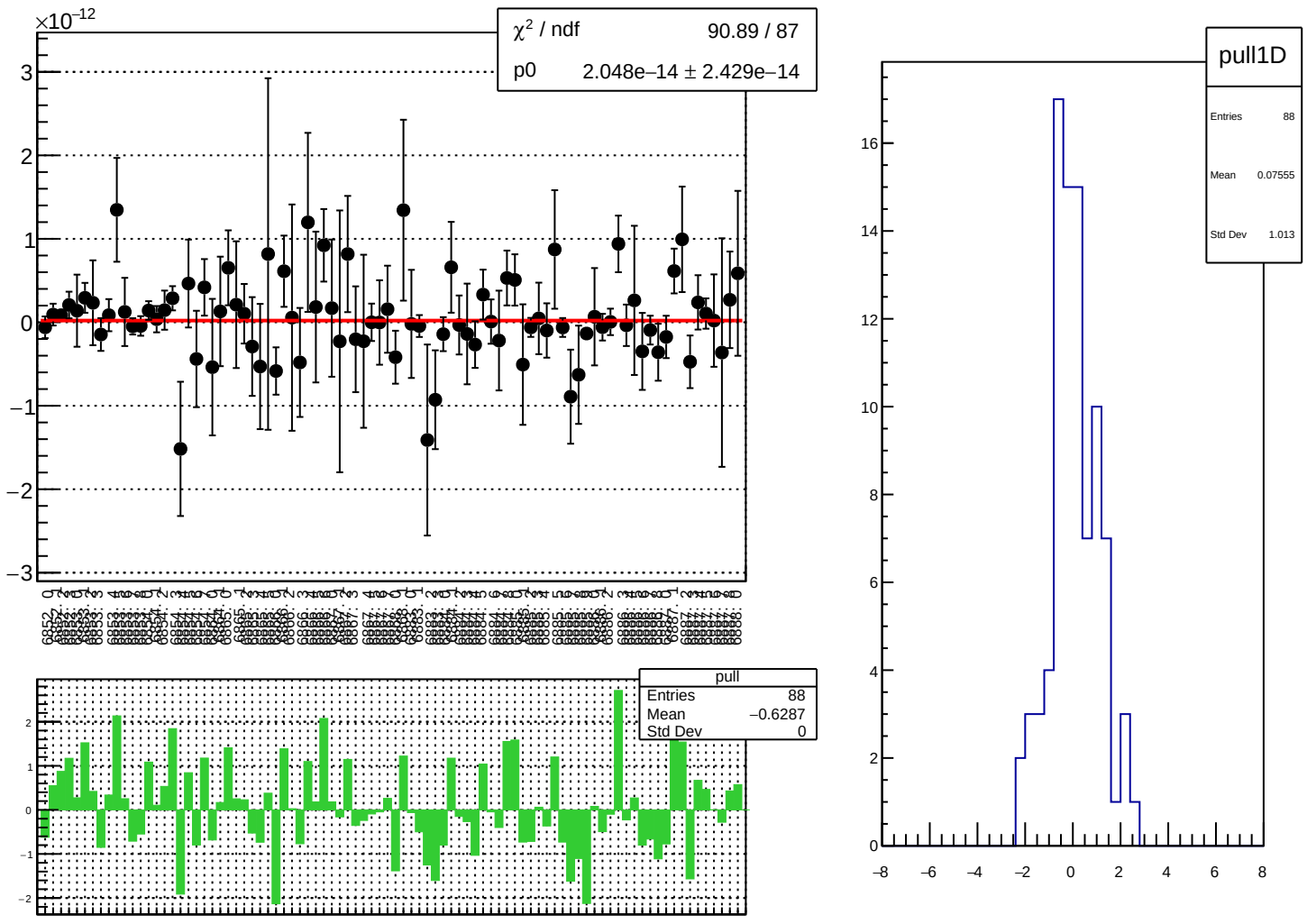

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.413e+05 / 87
p0 0.002132 ± 1.77e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

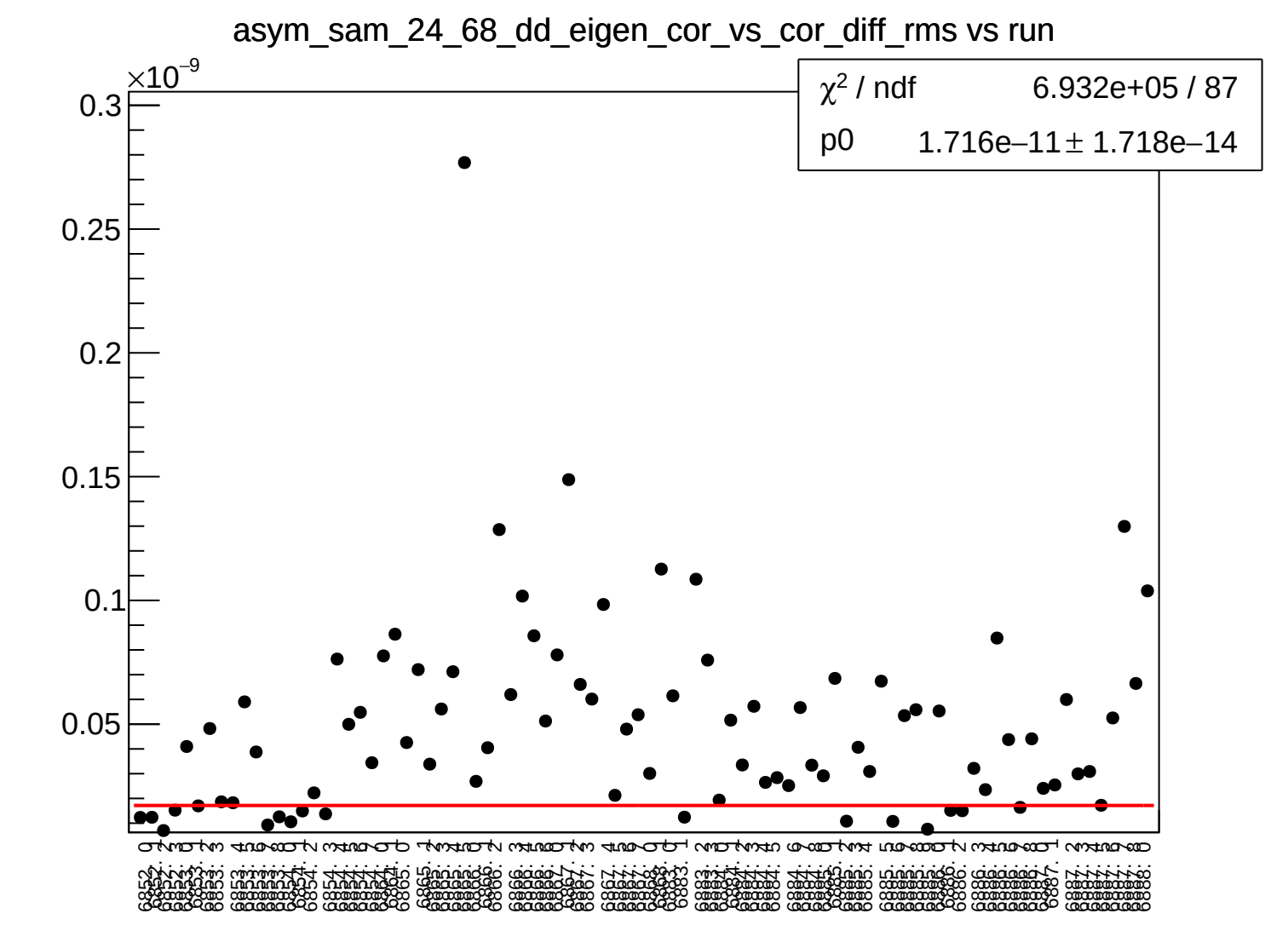

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.34 / 87
p0 0.04335 ± 0.04697
pull
Entries 88
Mean 484.3
Std Dev 0
pull1D
Entries 88
Mean −0.004007
Std Dev 0.9495

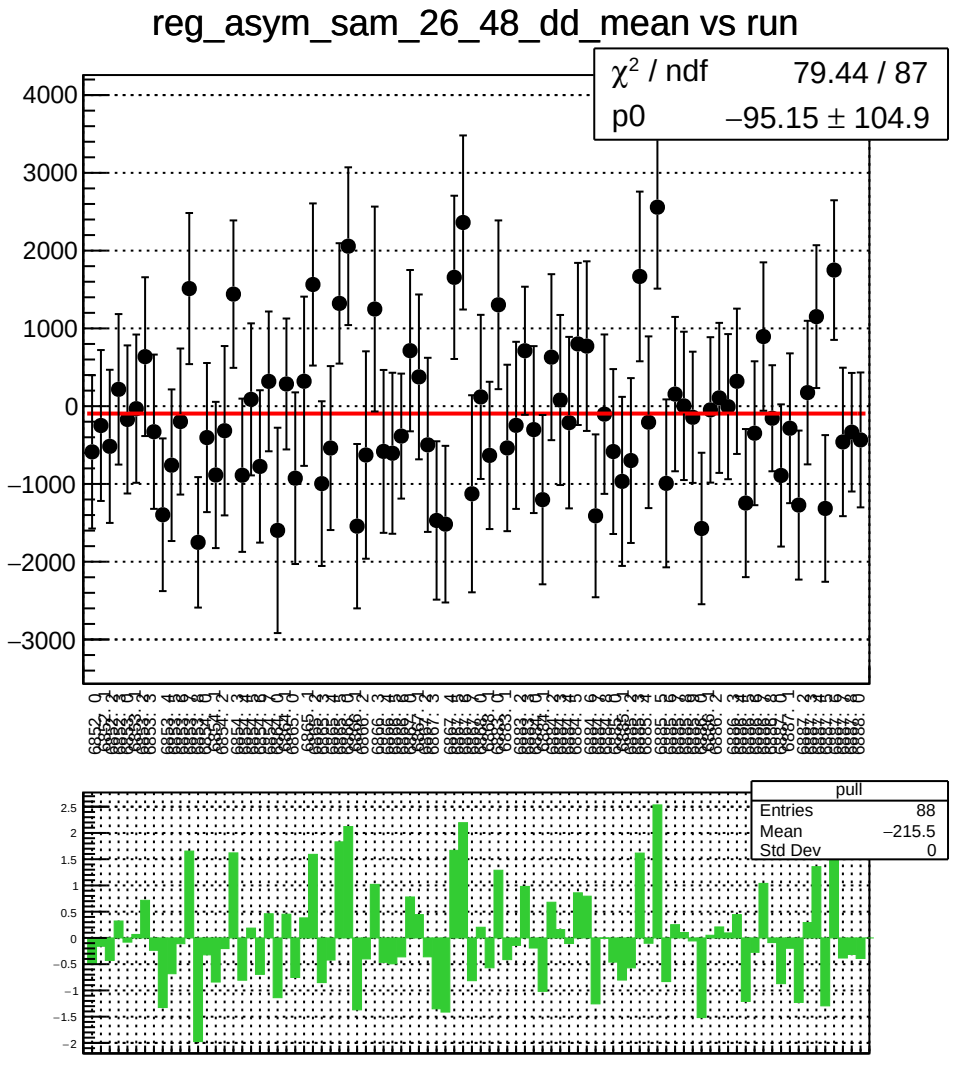

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.123e+04 / 87
p0 42.01 ± 0.03322
160
140
120
100
80
60
40

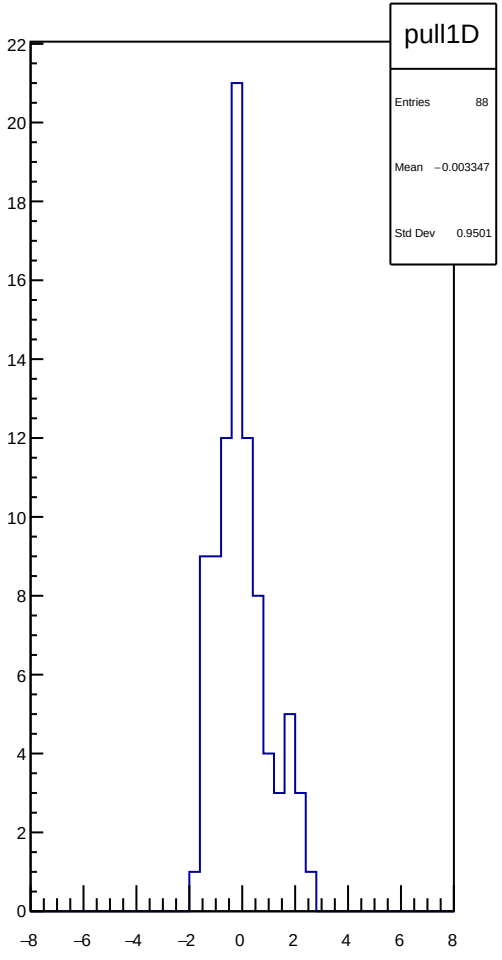

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.34 / 87
p0 0.04335 ± 0.04697
pull
Entries 88
Mean 484.3
Std Dev 0
pull1D
Entries 88
Mean −0.004007
Std Dev 0.9495

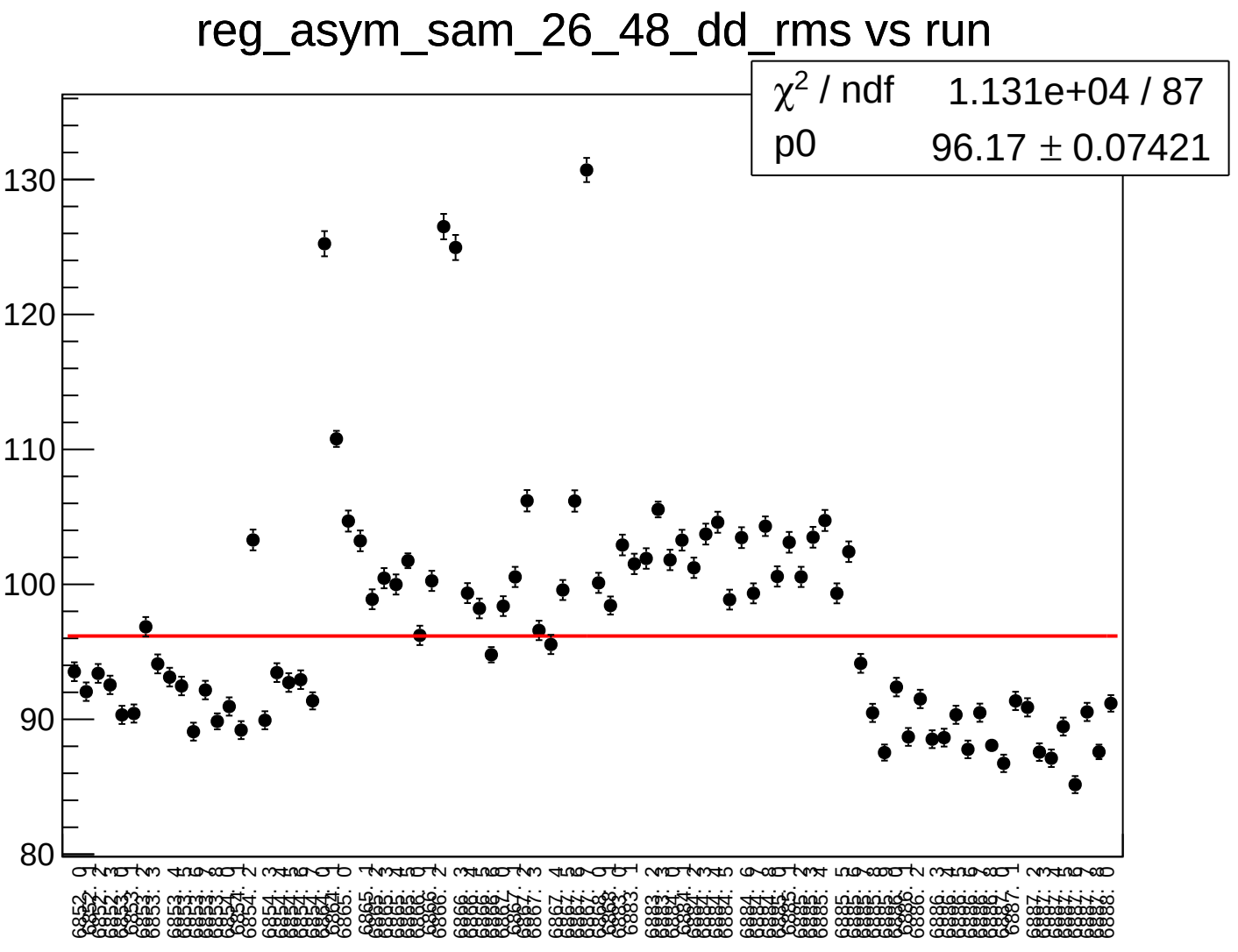

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.123e+04 / 87
p0 42.01 ± 0.03322
160
140
120
100
80
60
40

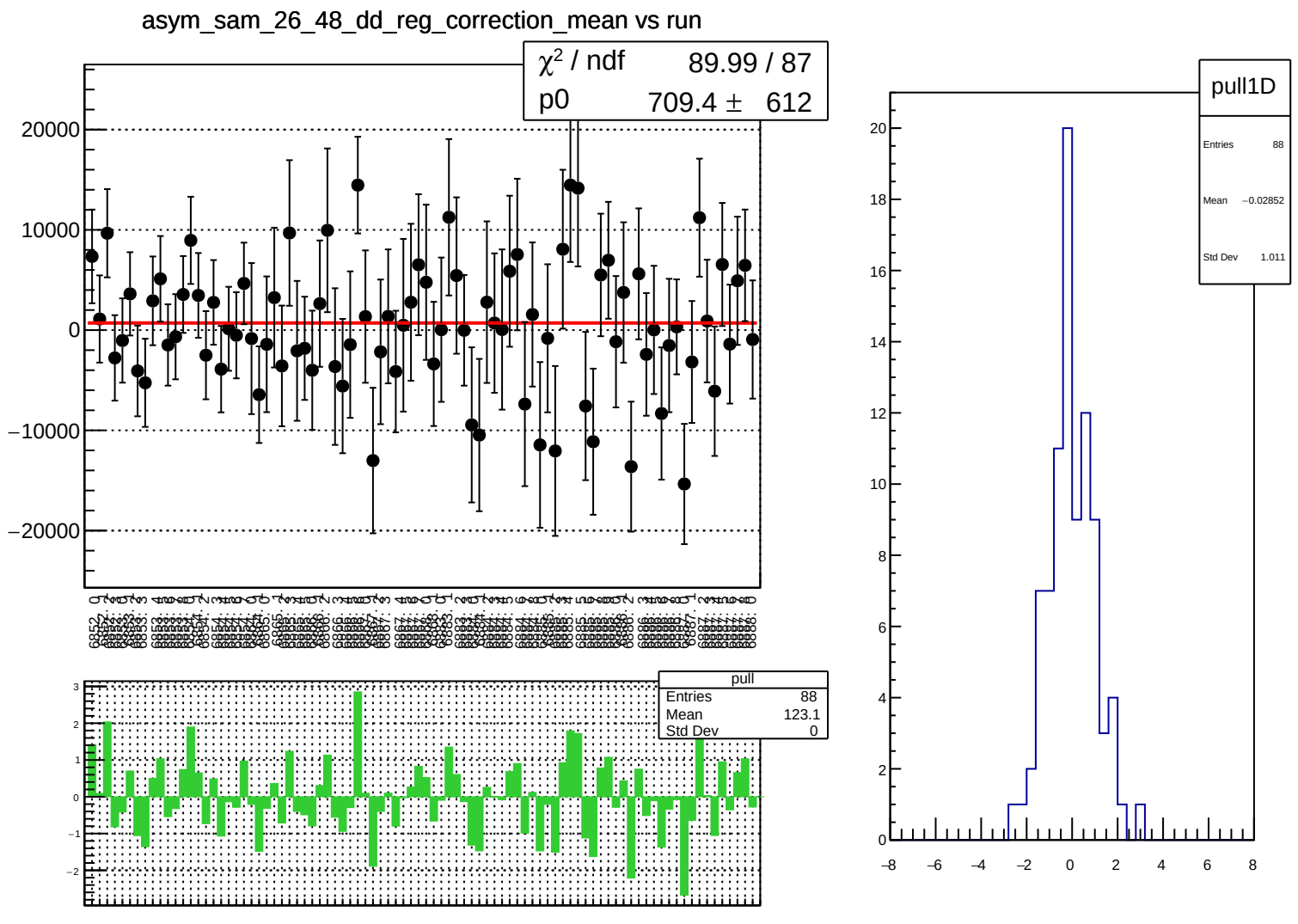

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.89 / 87
p0 2.048e−14 ± 2.429e−14
pull
Entries 88
Mean −0.6287
Std Dev 0
pull1D
Entries 88
Mean 0.07555
Std Dev 1.013

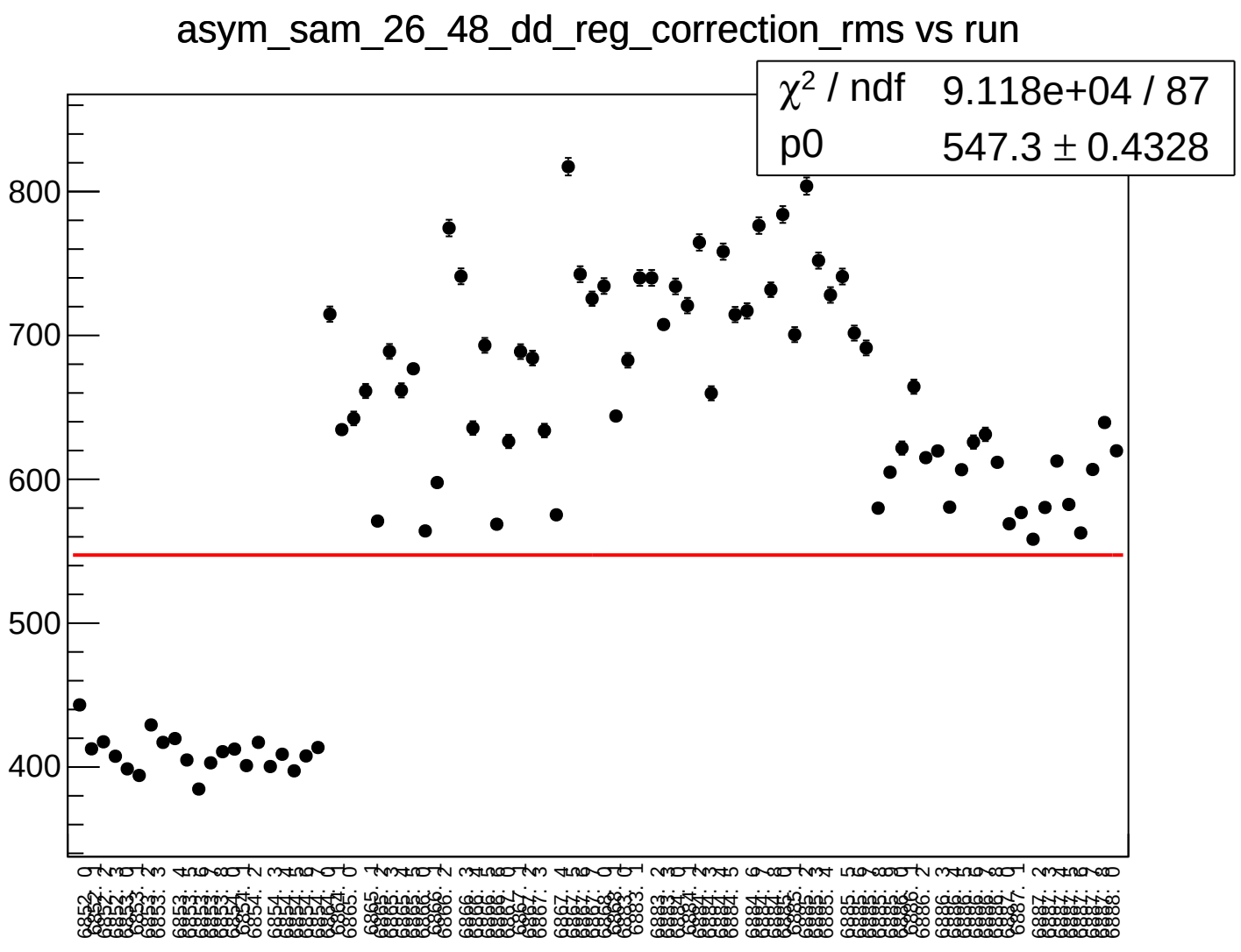

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.932e+05 / 87
p0 1.716e−11 ± 1.718e−14

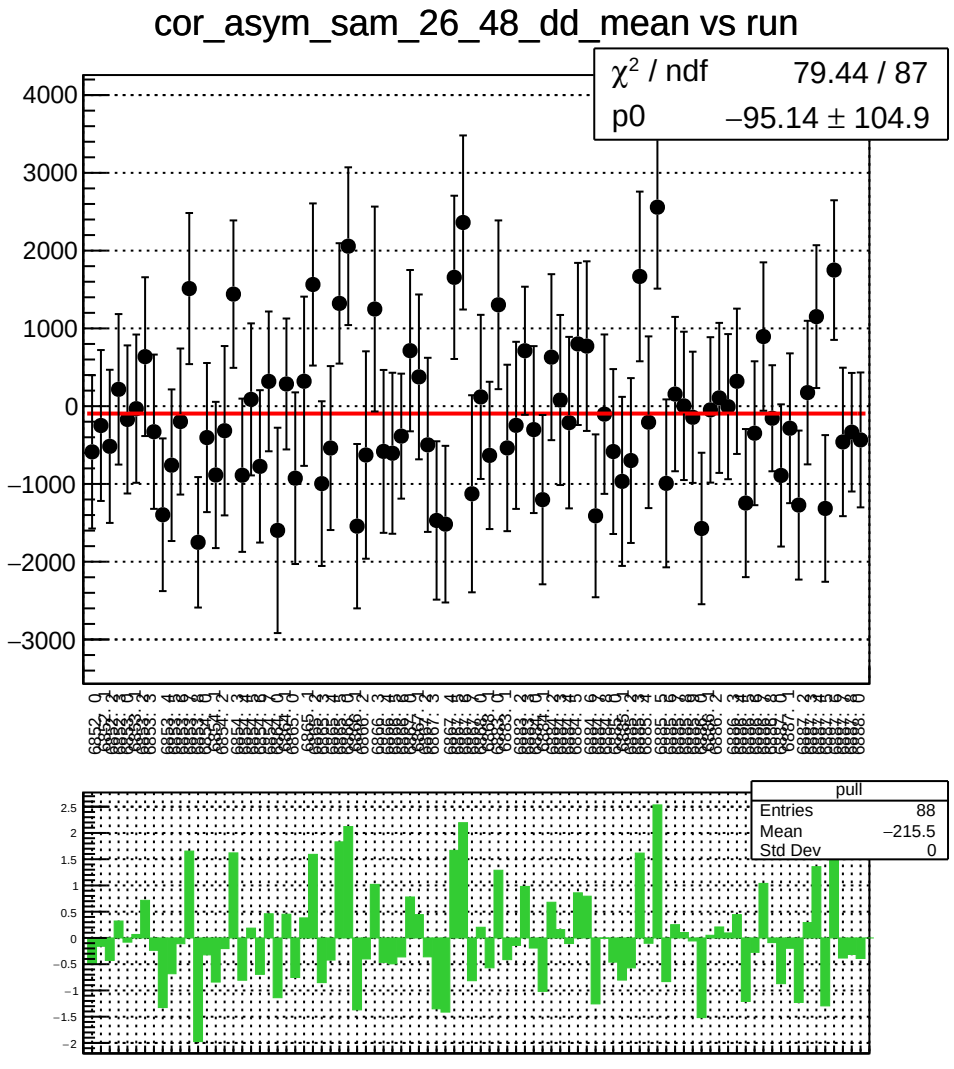

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 79.44 / 87
p0 −95.15 ± 104.9
pull
Entries 88
Mean −215.5
Std Dev 0

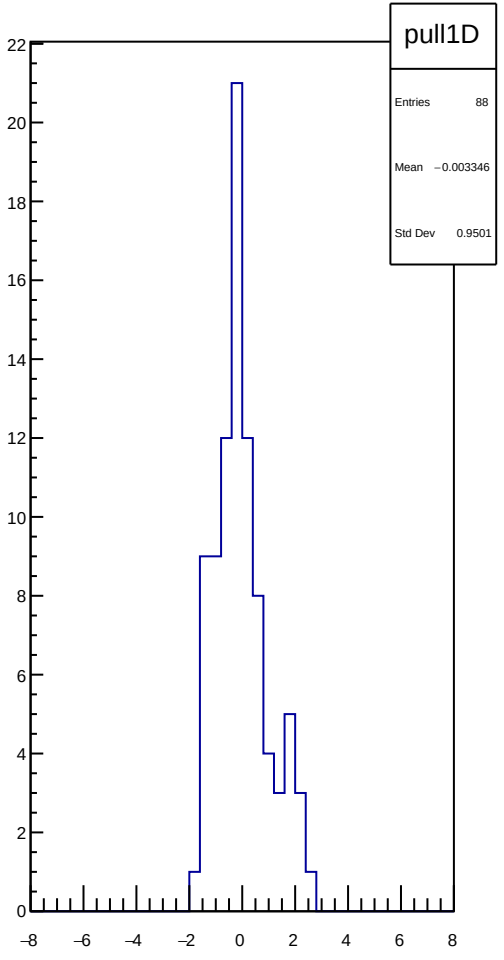

pull1D
Entries 88
Mean −0.003347
Std Dev 0.9501

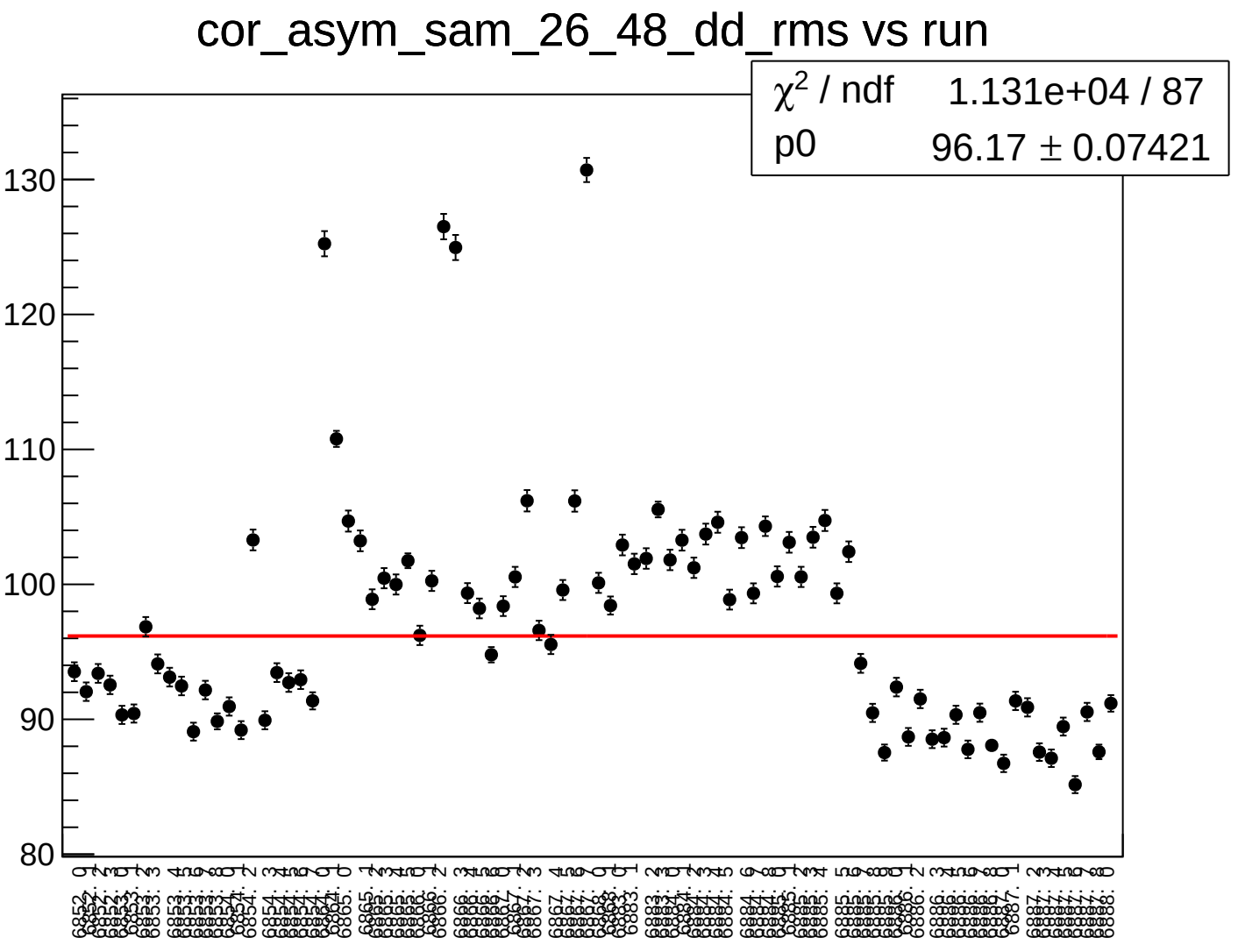

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.131e+04 / 87
p0 96.17 ± 0.07421
130
120
110
100
90
80

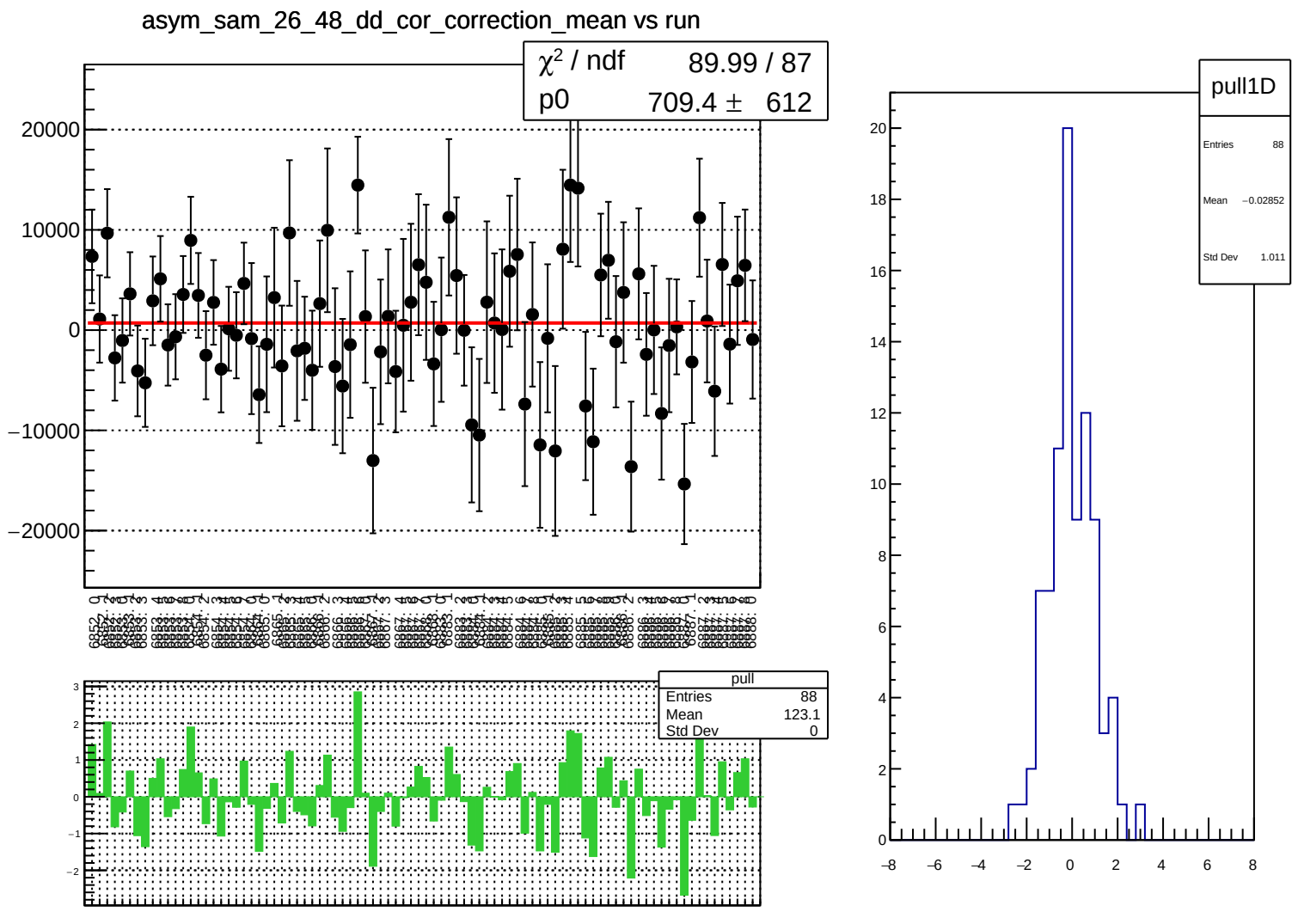

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 89.99 / 87
p0 709.4 ± 612
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 123.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.02852
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

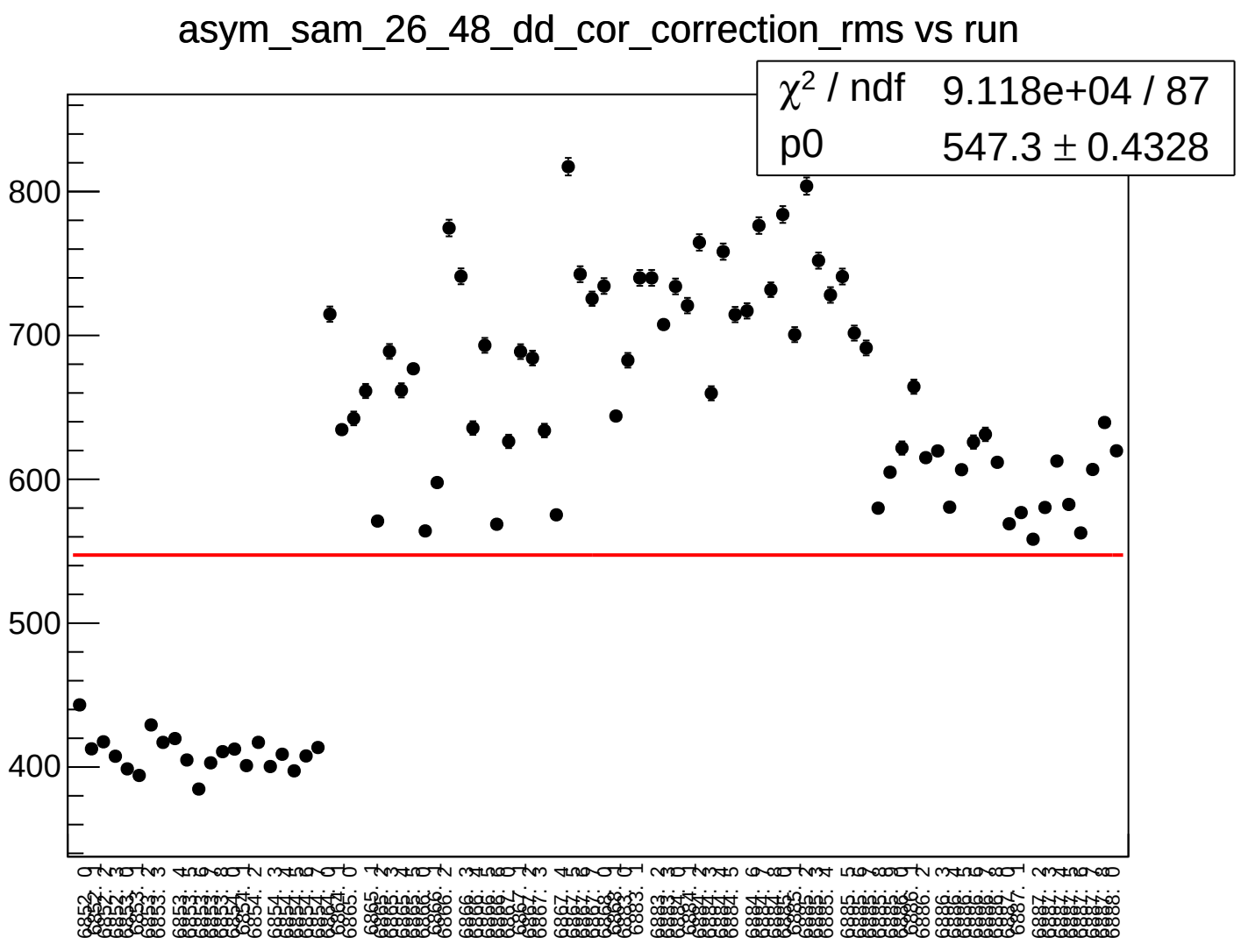

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 9.118e+04 / 87
p0 547.3 ± 0.4328
800
700
600
500
400

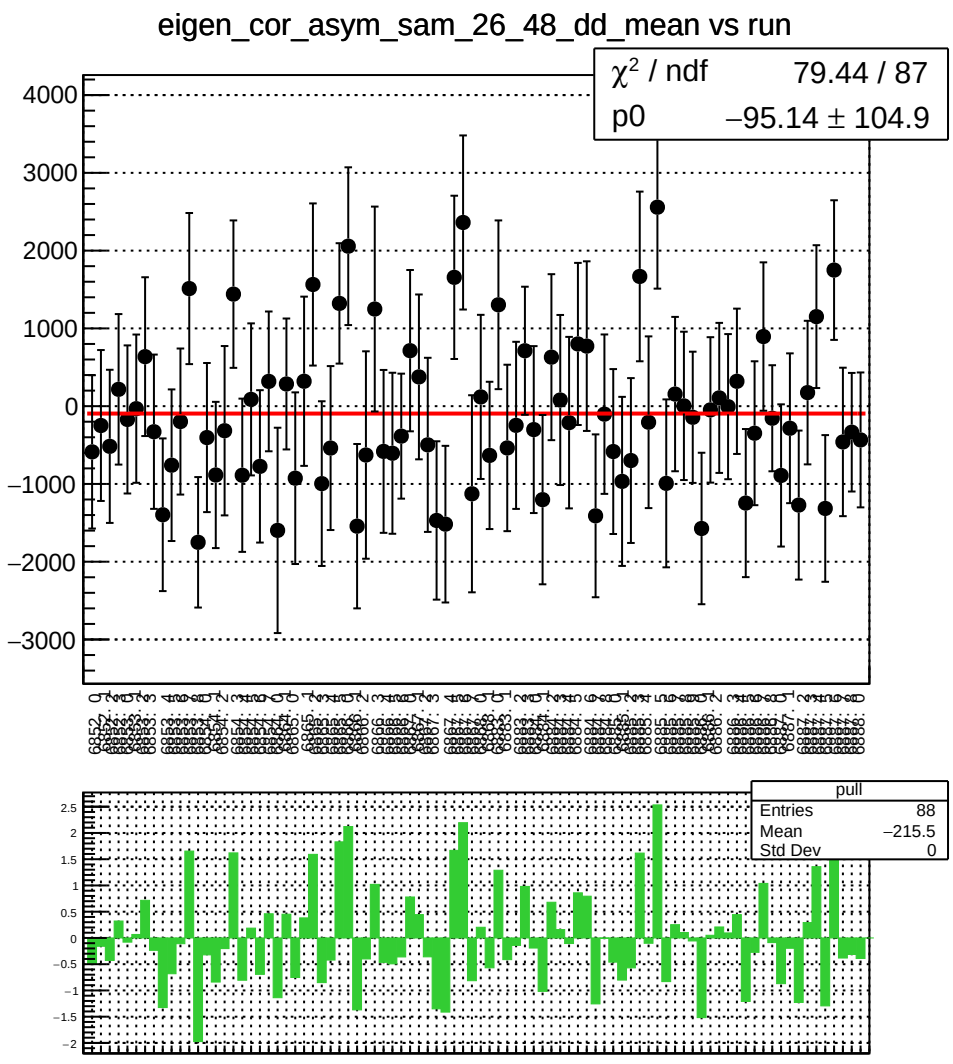

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 79.44 / 87
p0 −95.14 ± 104.9
pull
Entries 88
Mean −215.5
Std Dev 0

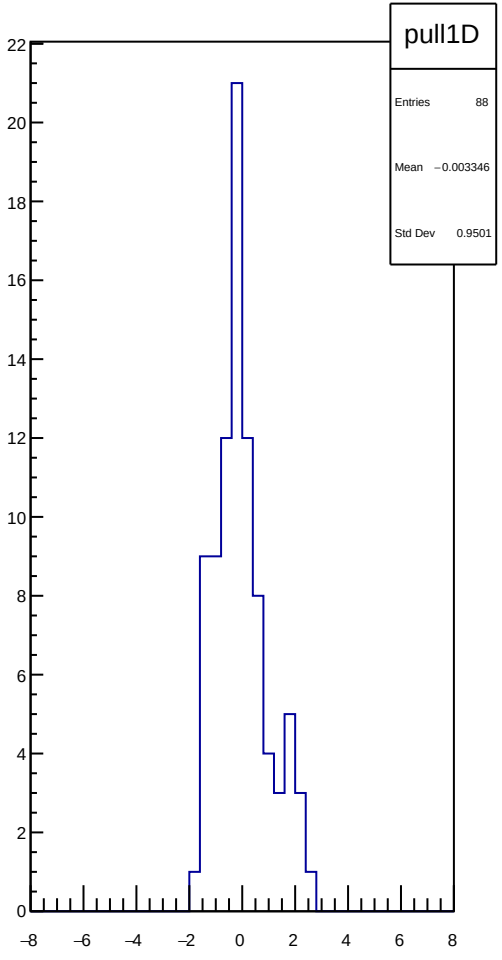

pull1D
Entries 88
Mean −0.003346
Std Dev 0.9501

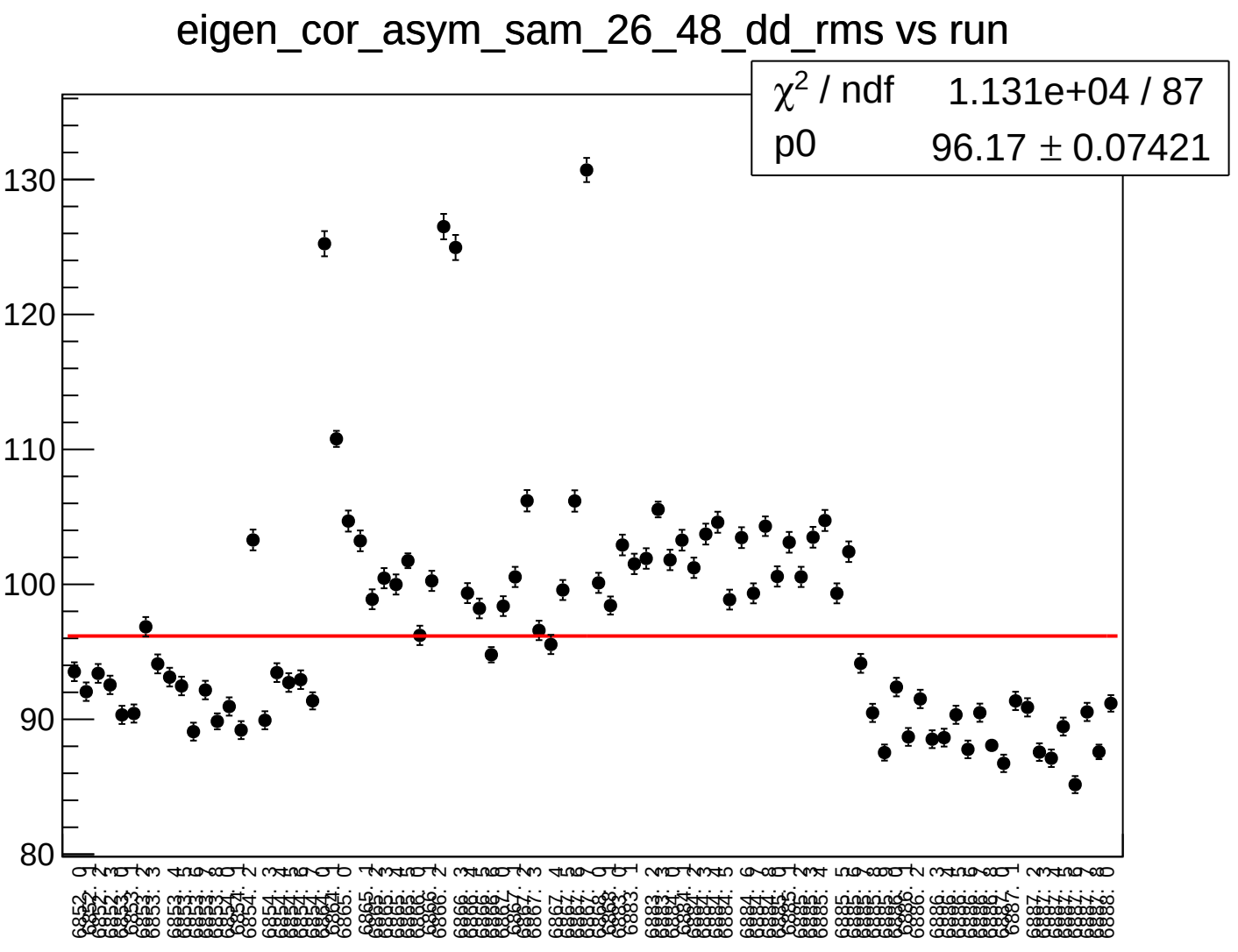

cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.131e+04 / 87
p0 96.17 ± 0.07421
130
120
110
100
90
80

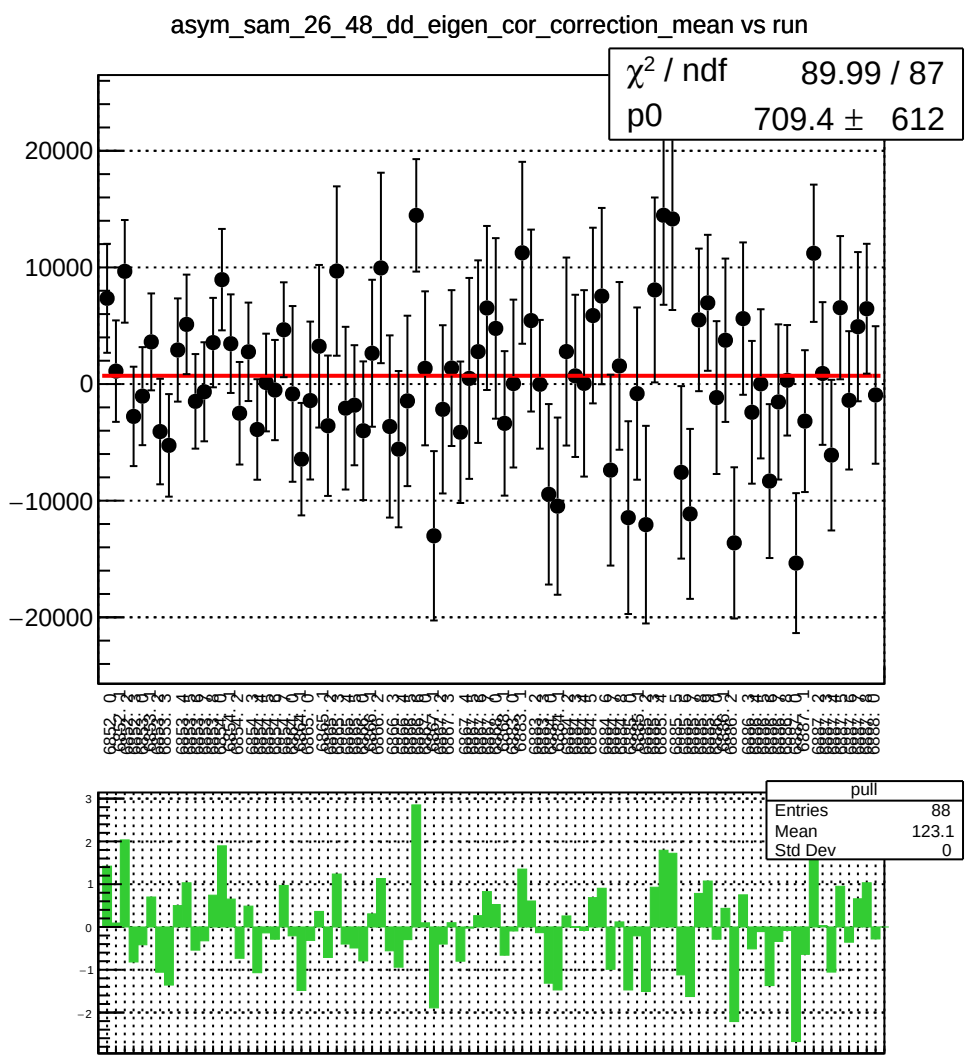

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 89.99 / 87
p0 709.4 ± 612
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 123.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.02852
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

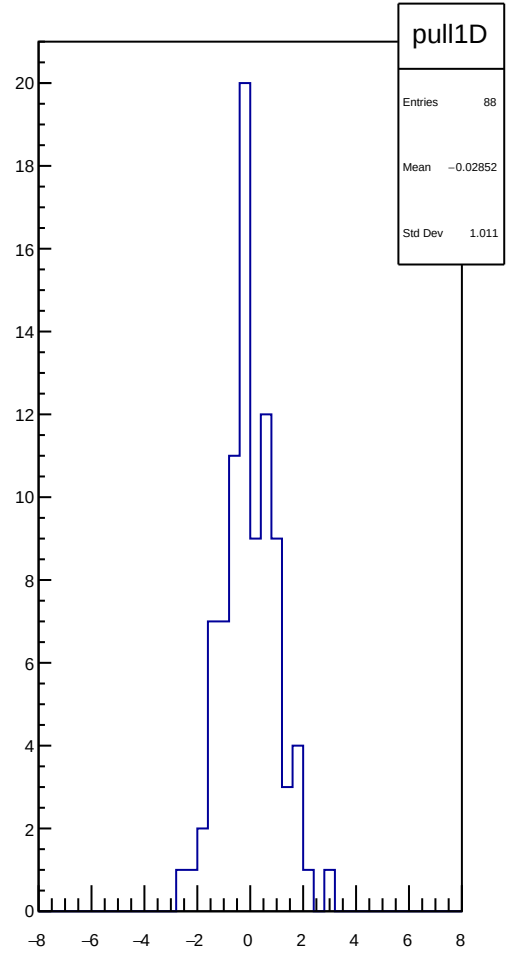

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 9.118e+04 / 87
p0 547.3 ± 0.4328
800
700
600
500
400

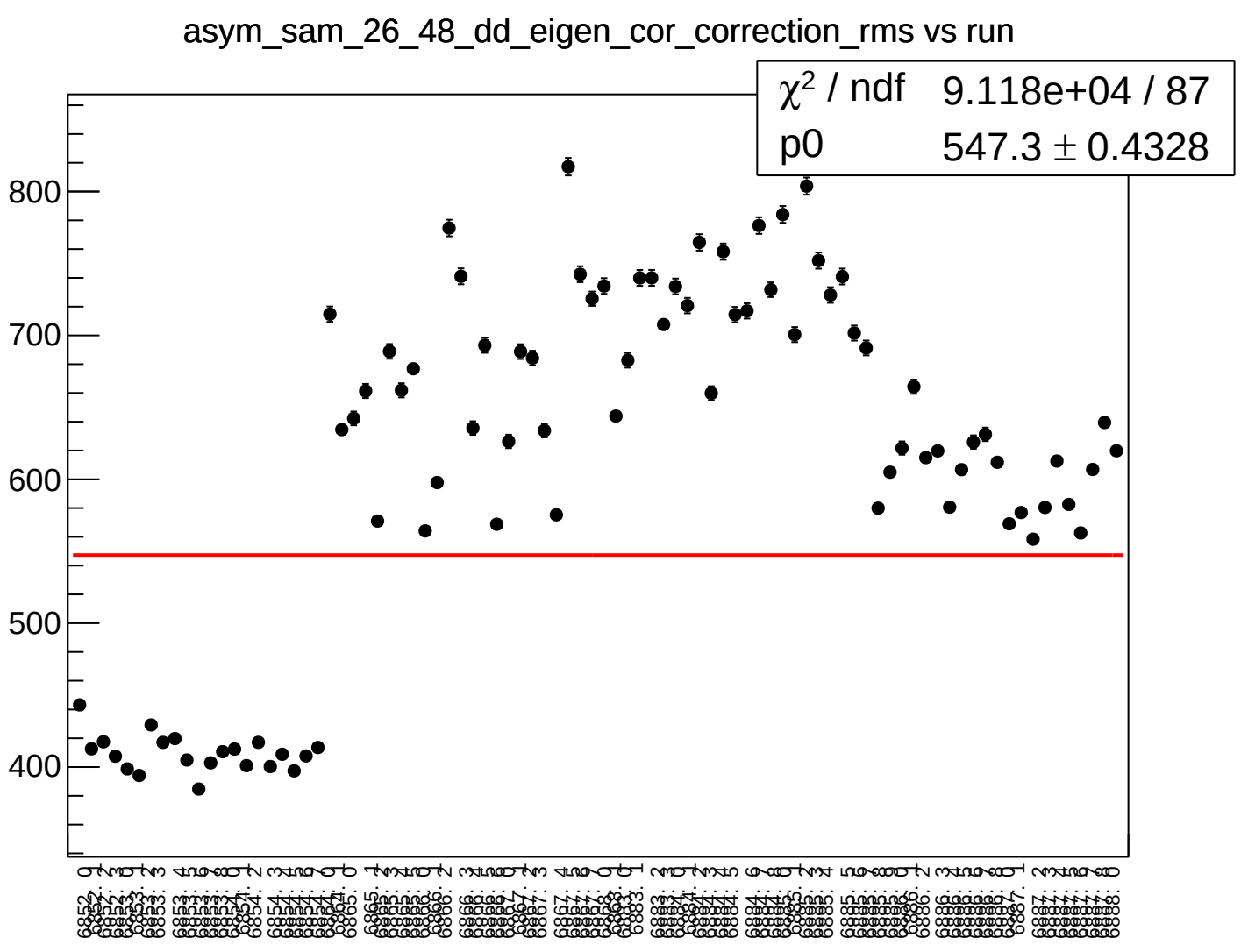

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 79.44 / 87
p0 −95.14 ± 104.9
pull
Entries 88
Mean −215.5
Std Dev 0

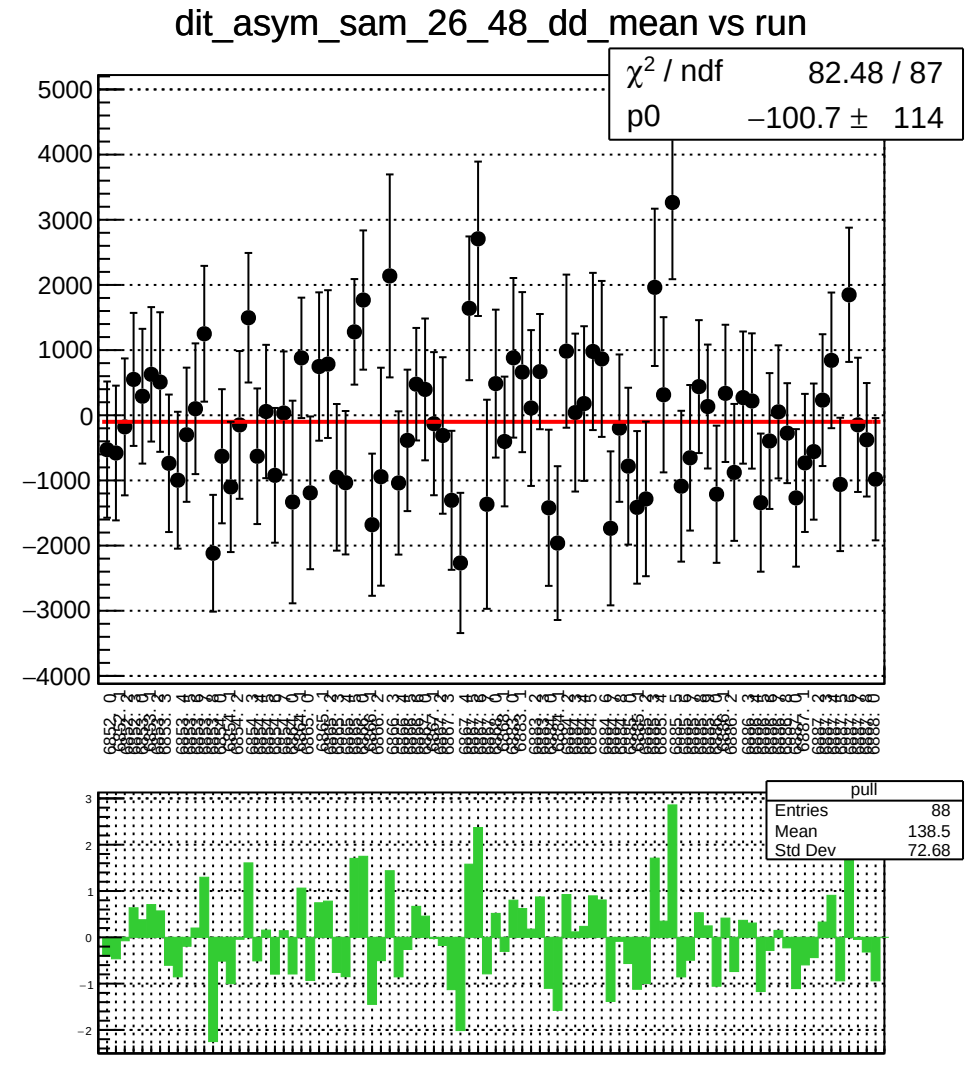

pull1D
Entries 88
Mean −0.003346
Std Dev 0.9501

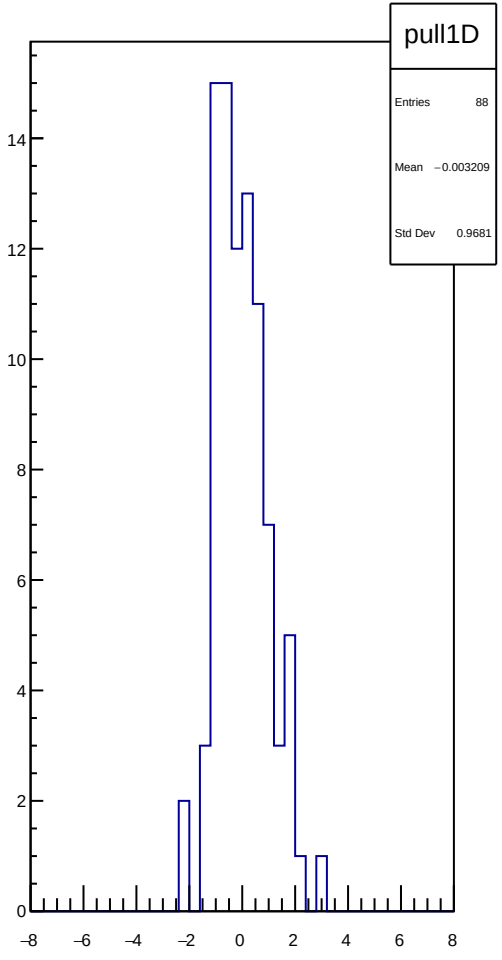

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.131e+04 / 87
p0 96.17 ± 0.07421
130
120
110
100
90
80

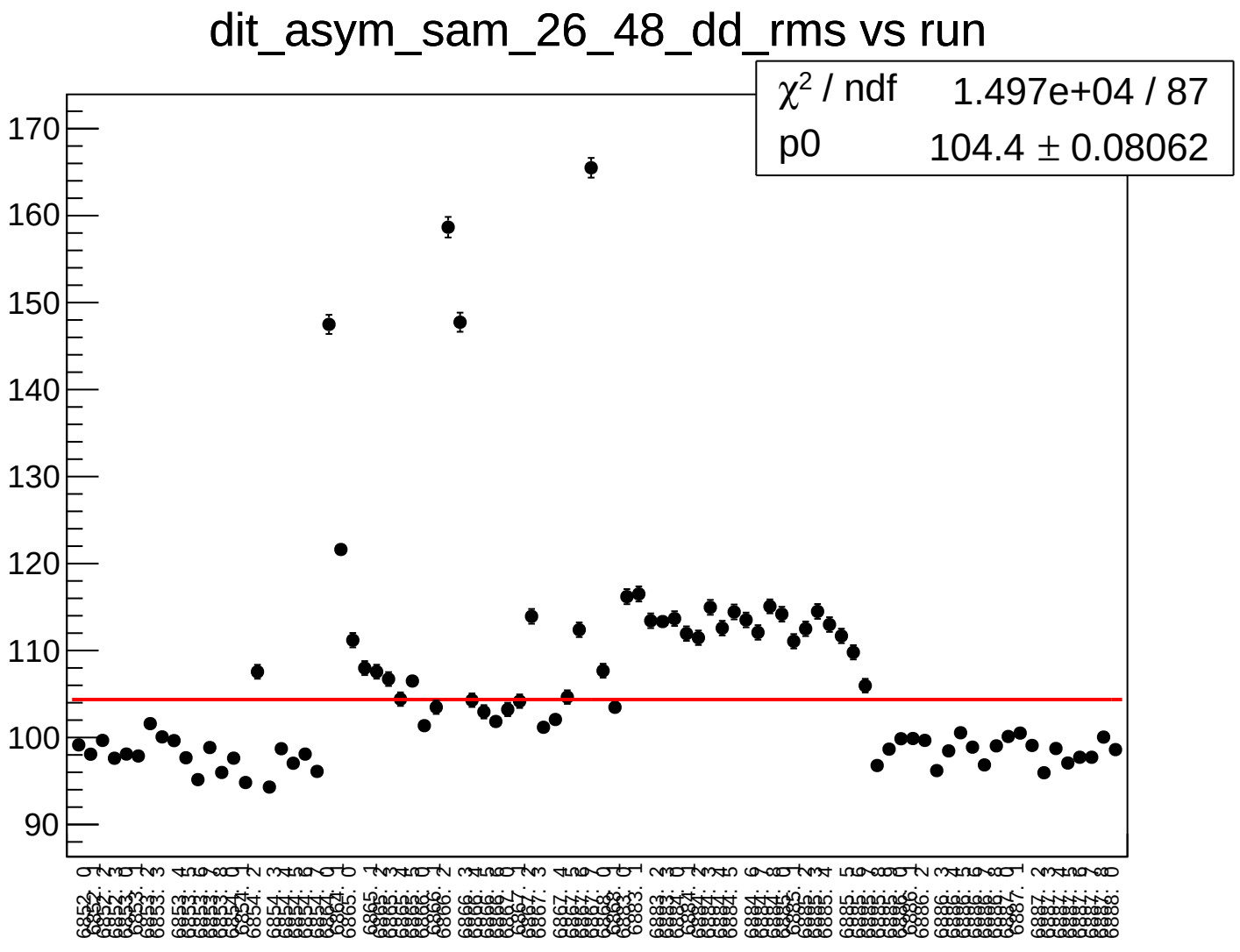

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.99 / 87
p0 709.4 ± 612
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 123.1
Std Dev 0
3
2
1
0
−1
−2

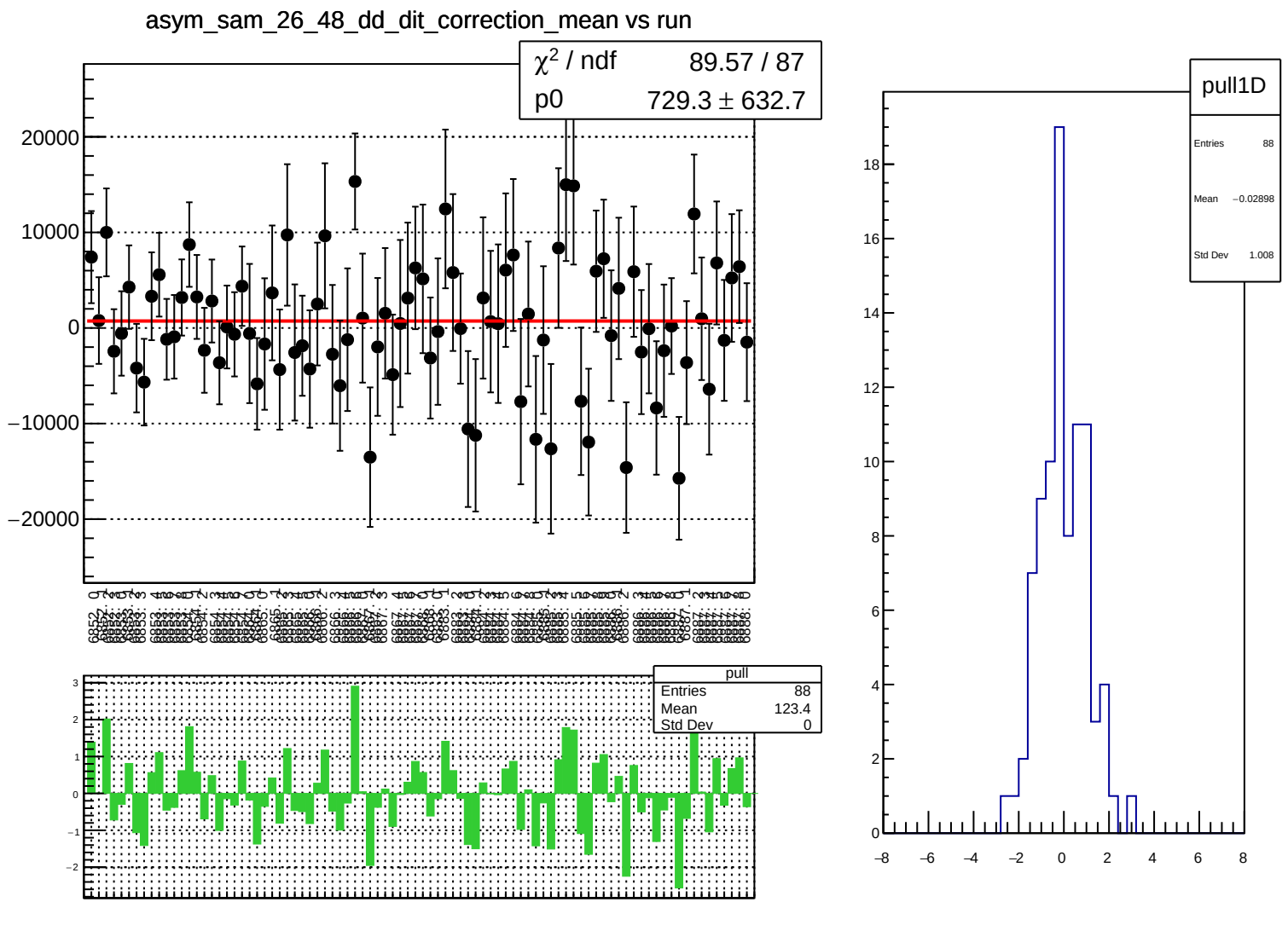

pull1D
Entries 88
Mean −0.02852
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

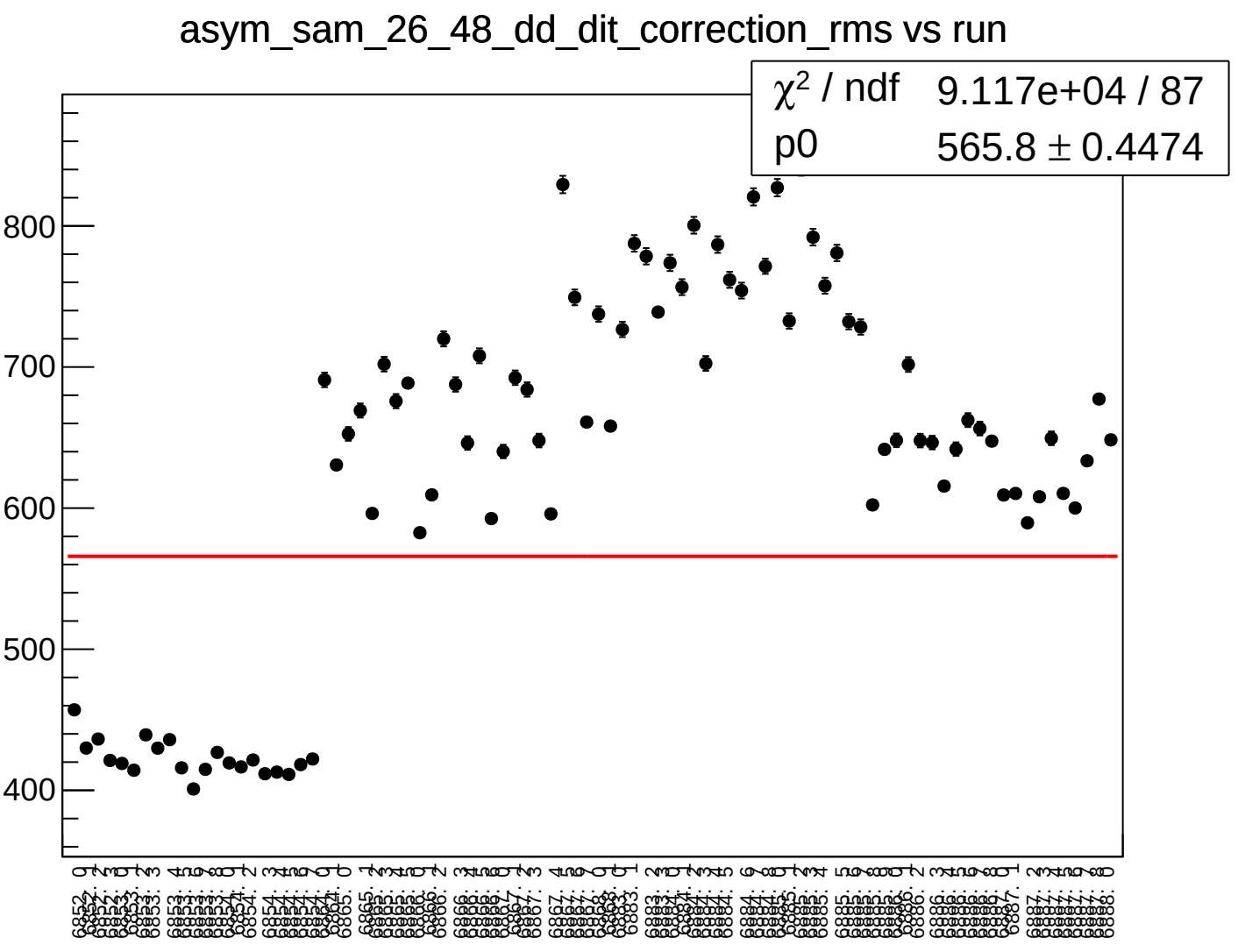

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 9.118e+04 / 87
p0 547.3 ± 0.4328
800
700
600
500
400

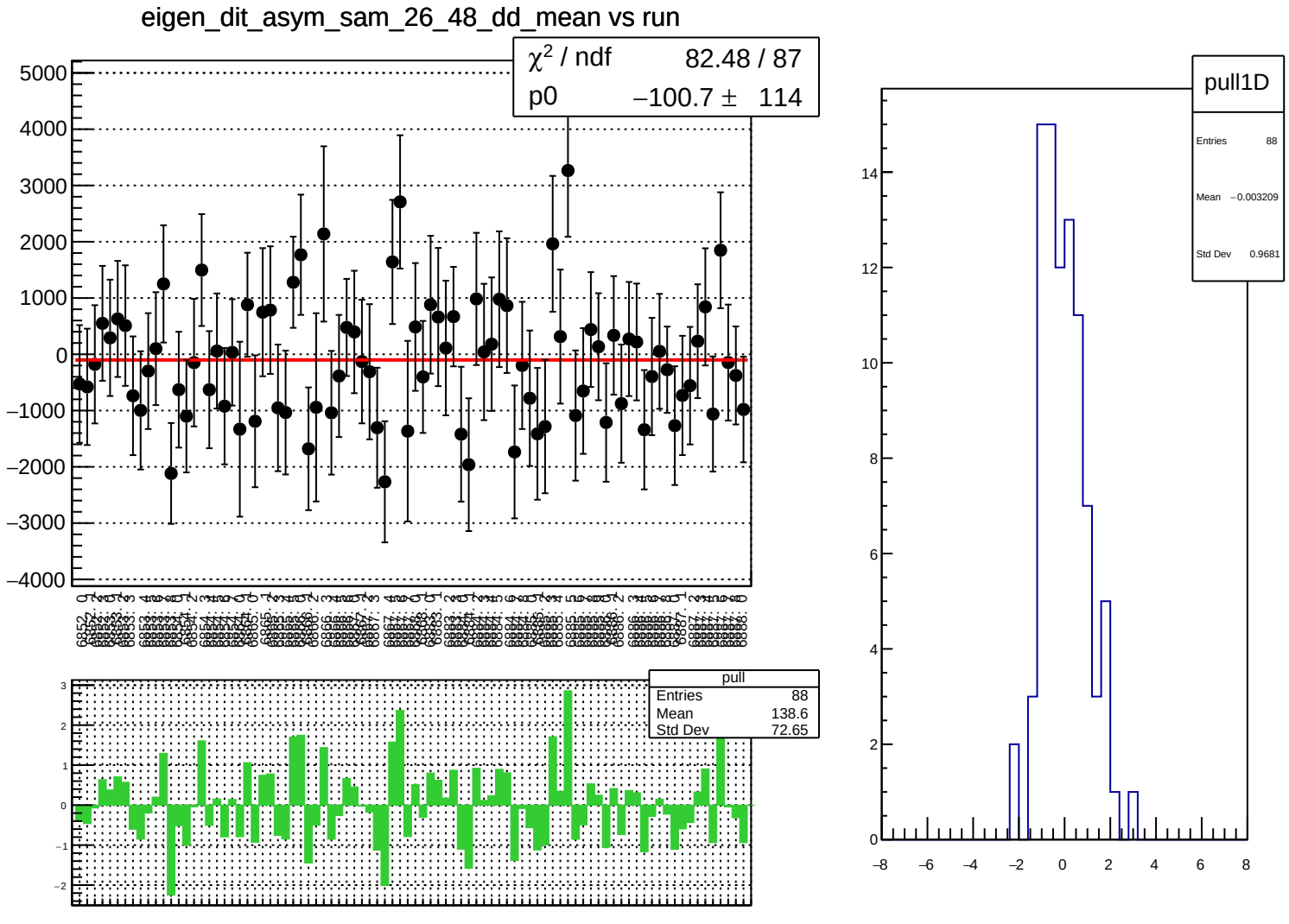

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 82.48 / 87
p0 −100.7 ± 114
pull
Entries 88
Mean 138.5
Std Dev 72.68

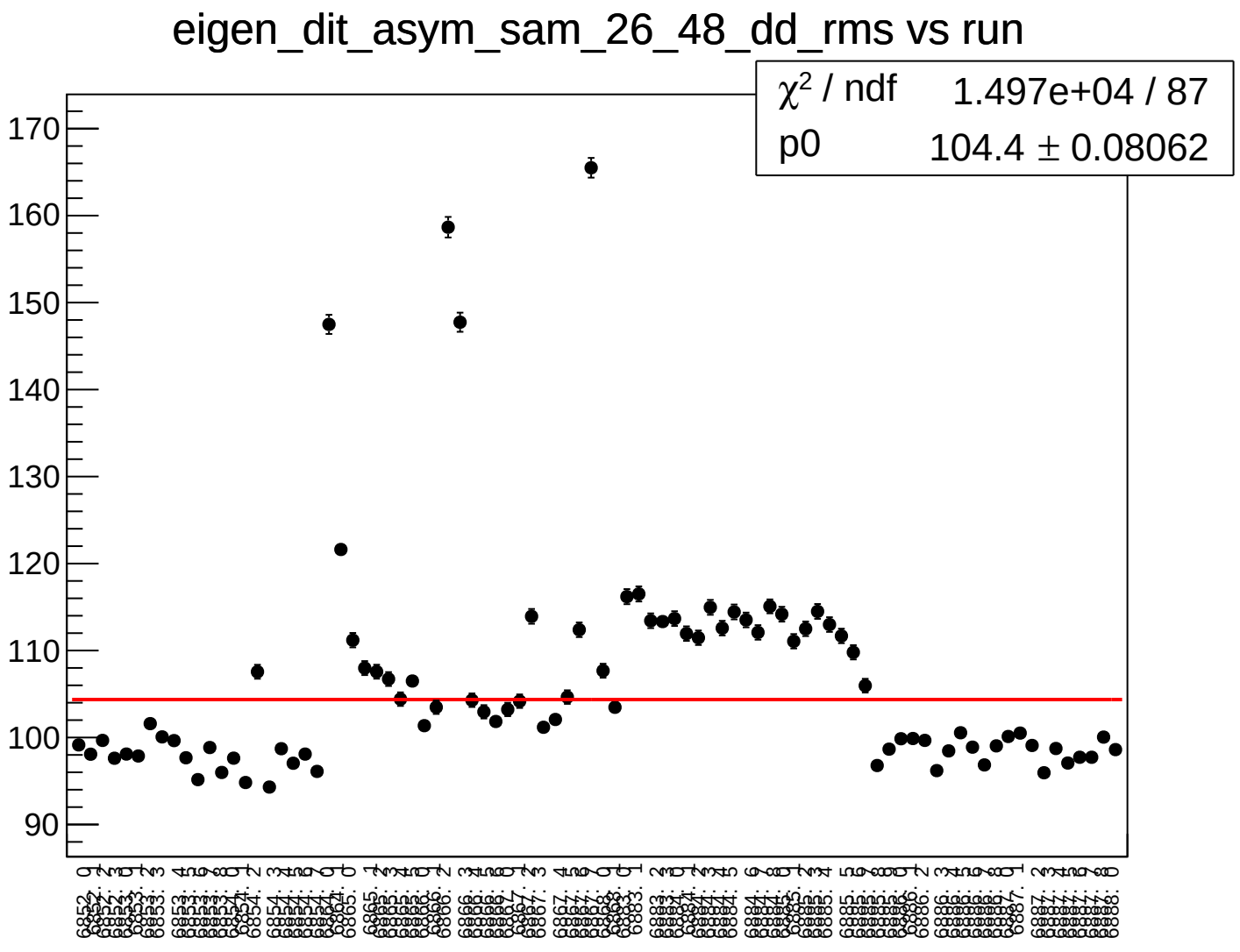

pull1D
Entries 88
Mean −0.003209
Std Dev 0.9681

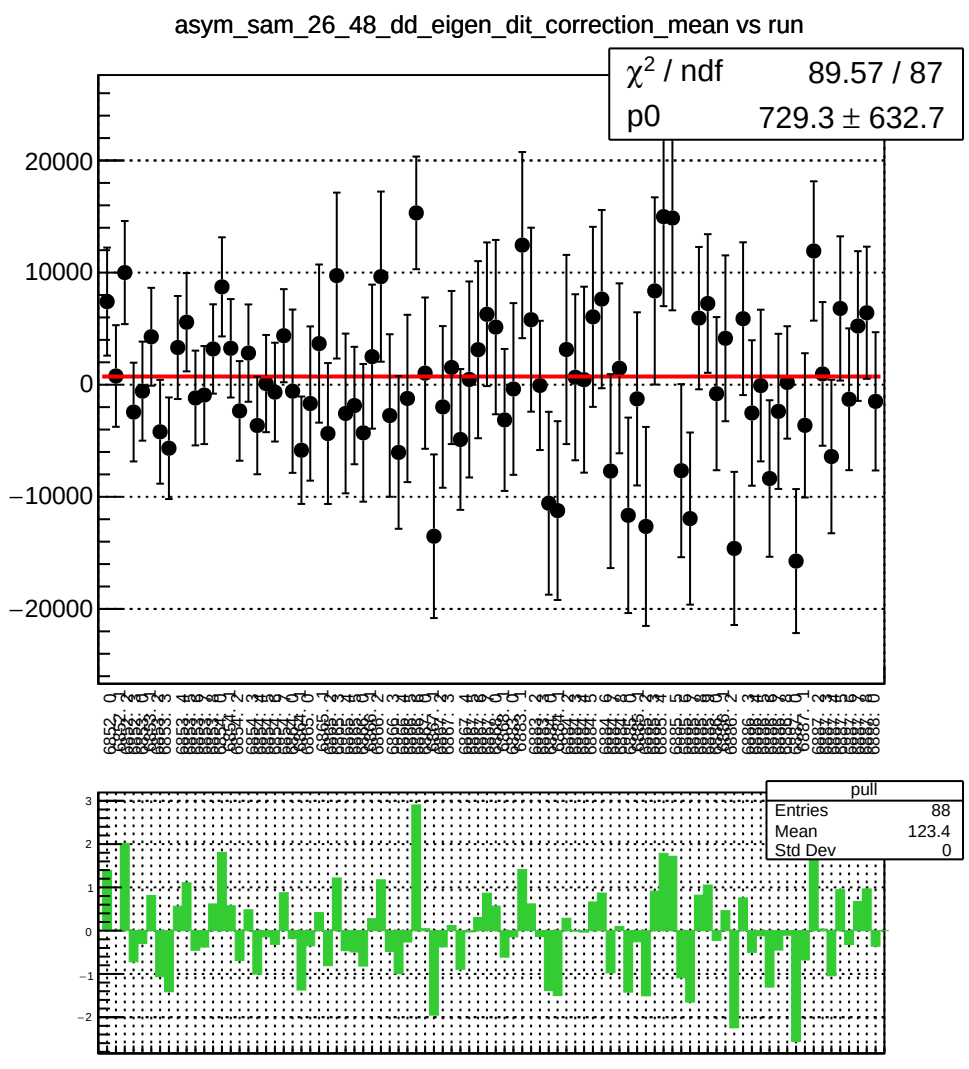

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.497e+04 / 87
p0 104.4 ± 0.08062
170
160
150
140
130
120
110
100
90

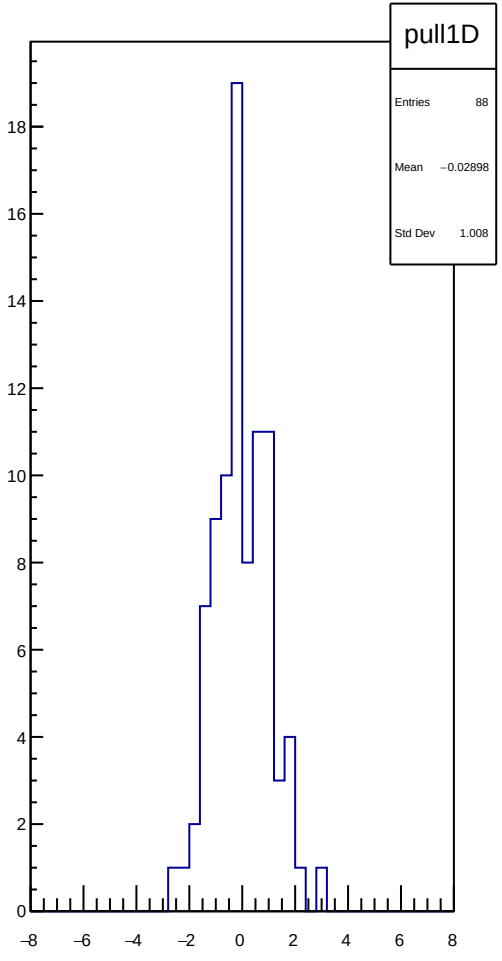

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 89.57 / 87
p0 729.3 ± 632.7
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 123.4
Std Dev 0
pull1D
Entries 88
Mean −0.02898
Std Dev 1.008

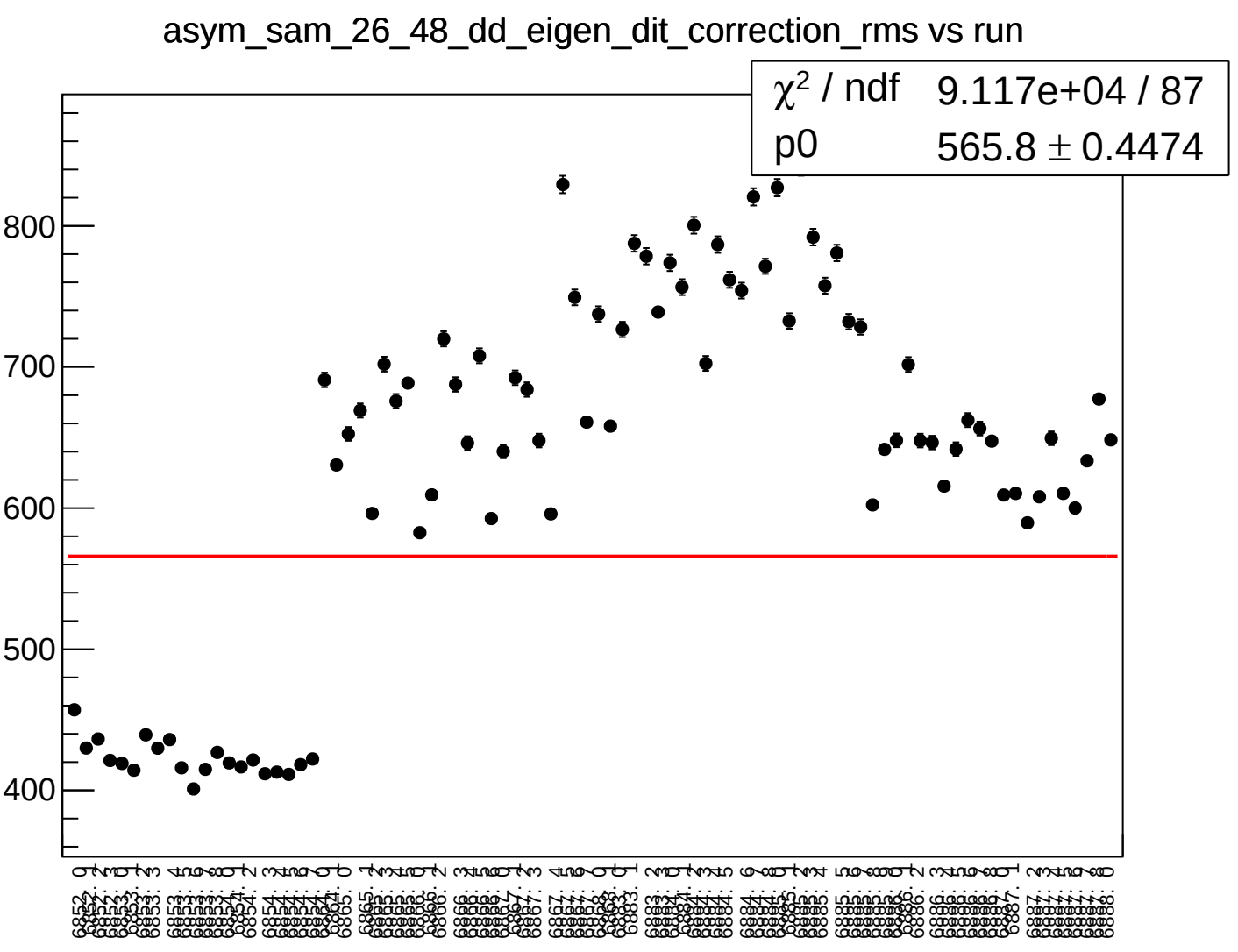

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 9.117e+04 / 87
p0 565.8 ± 0.4474
800
700
600
500
400

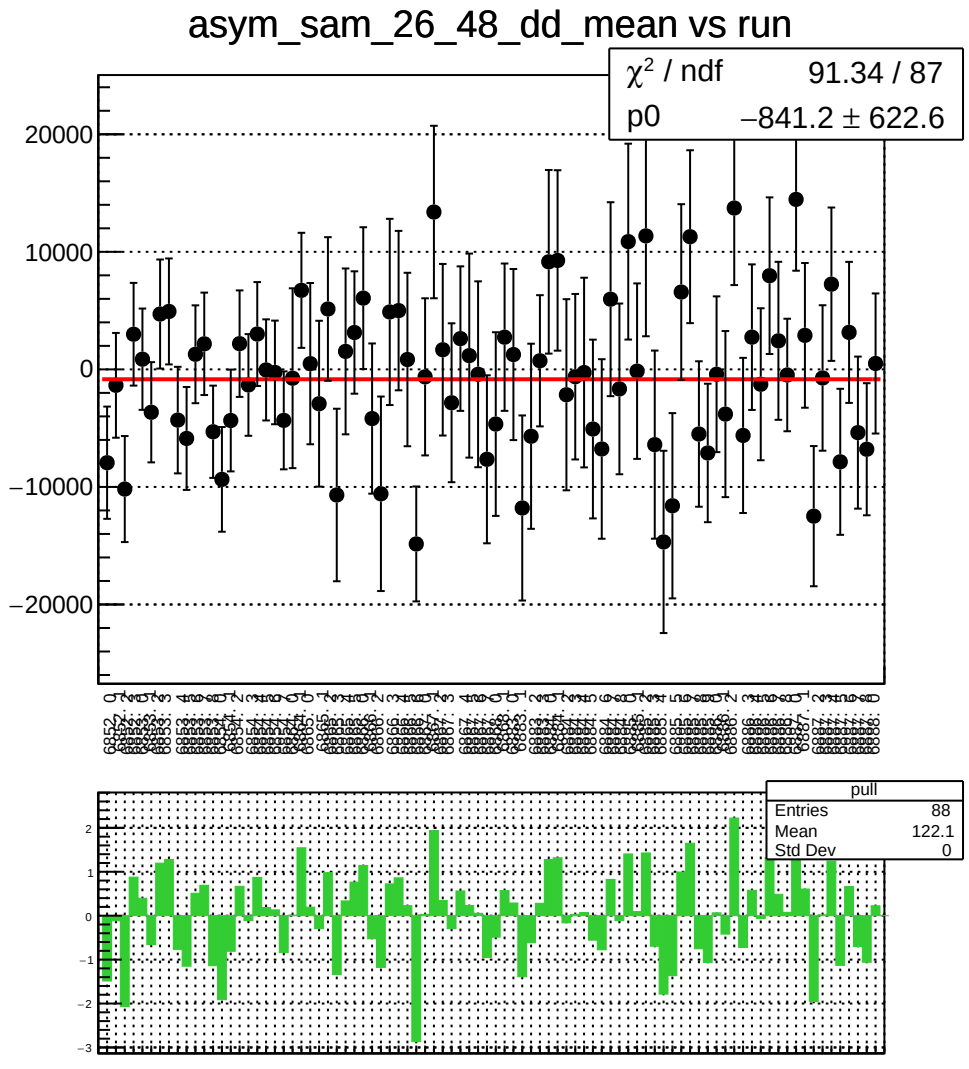

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 82.48 / 87
p0 −100.7 ± 114
pull
Entries 88
Mean 138.6
Std Dev 72.65
pull1D
Entries 88
Mean −0.003209
Std Dev 0.9681

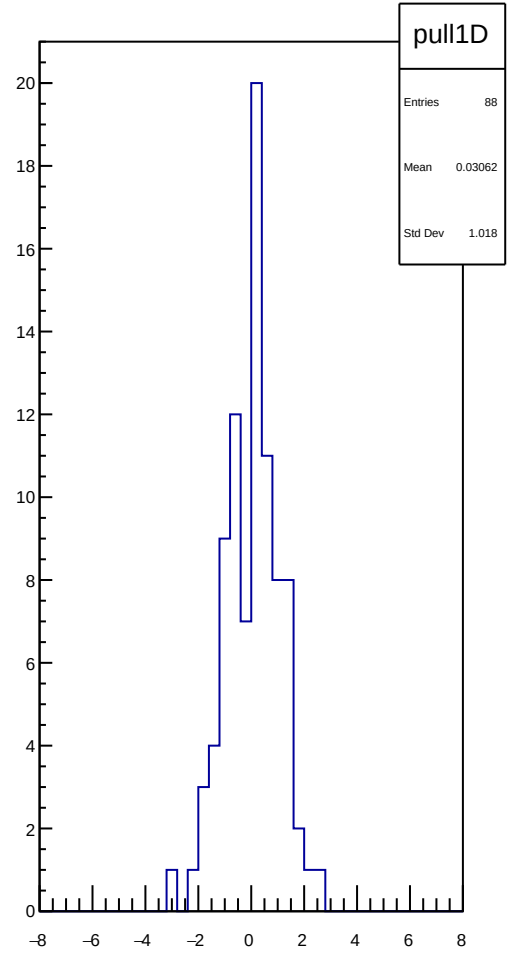

eigen_dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.497e+04 / 87
p0 104.4 ± 0.08062
170
160
150
140
130
120
110
100
90

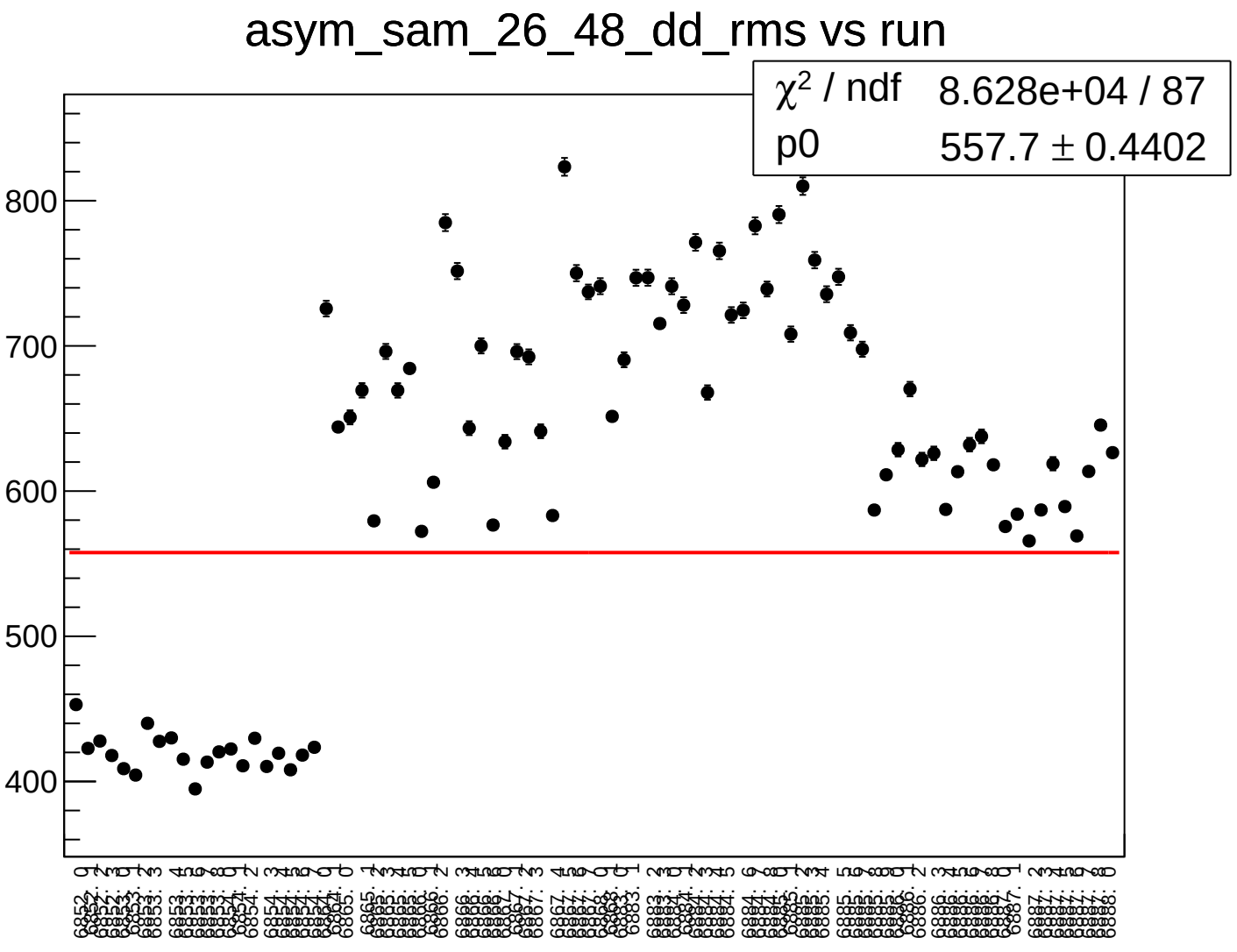

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.57 / 87
p0 729.3 ± 632.7
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 123.4
Std Dev 0
3
2
1
0
−1
−2

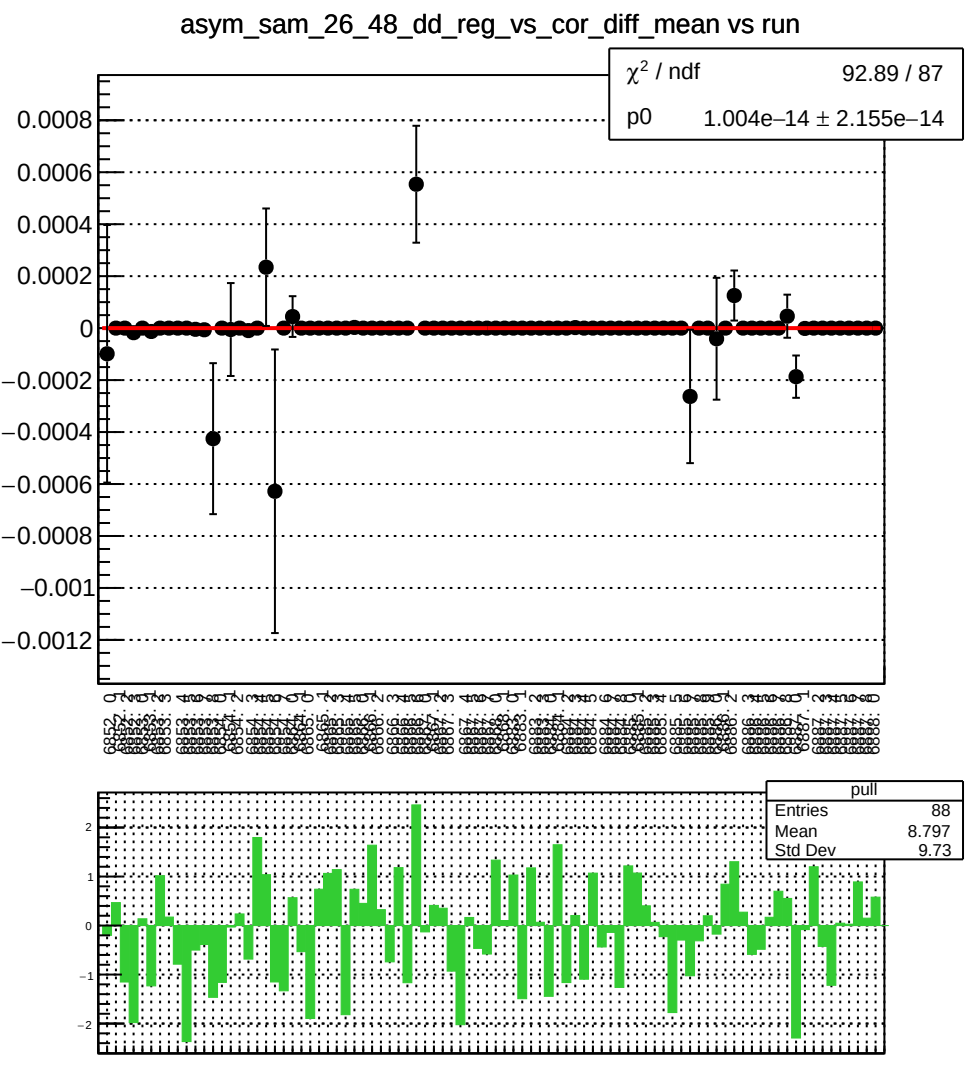

pull1D
Entries 88
Mean −0.02898
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

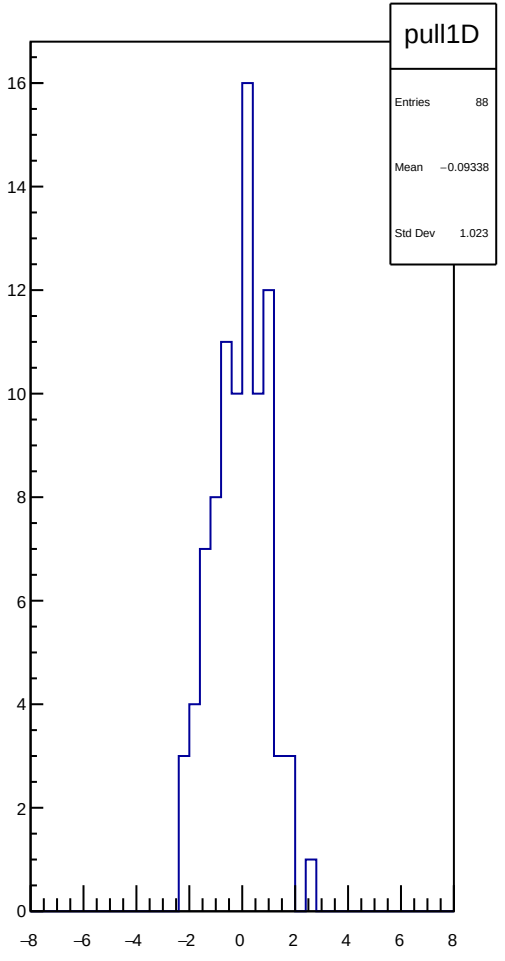

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 9.117e+04 / 87
p0 565.8 ± 0.4474
800
700
600
500
400

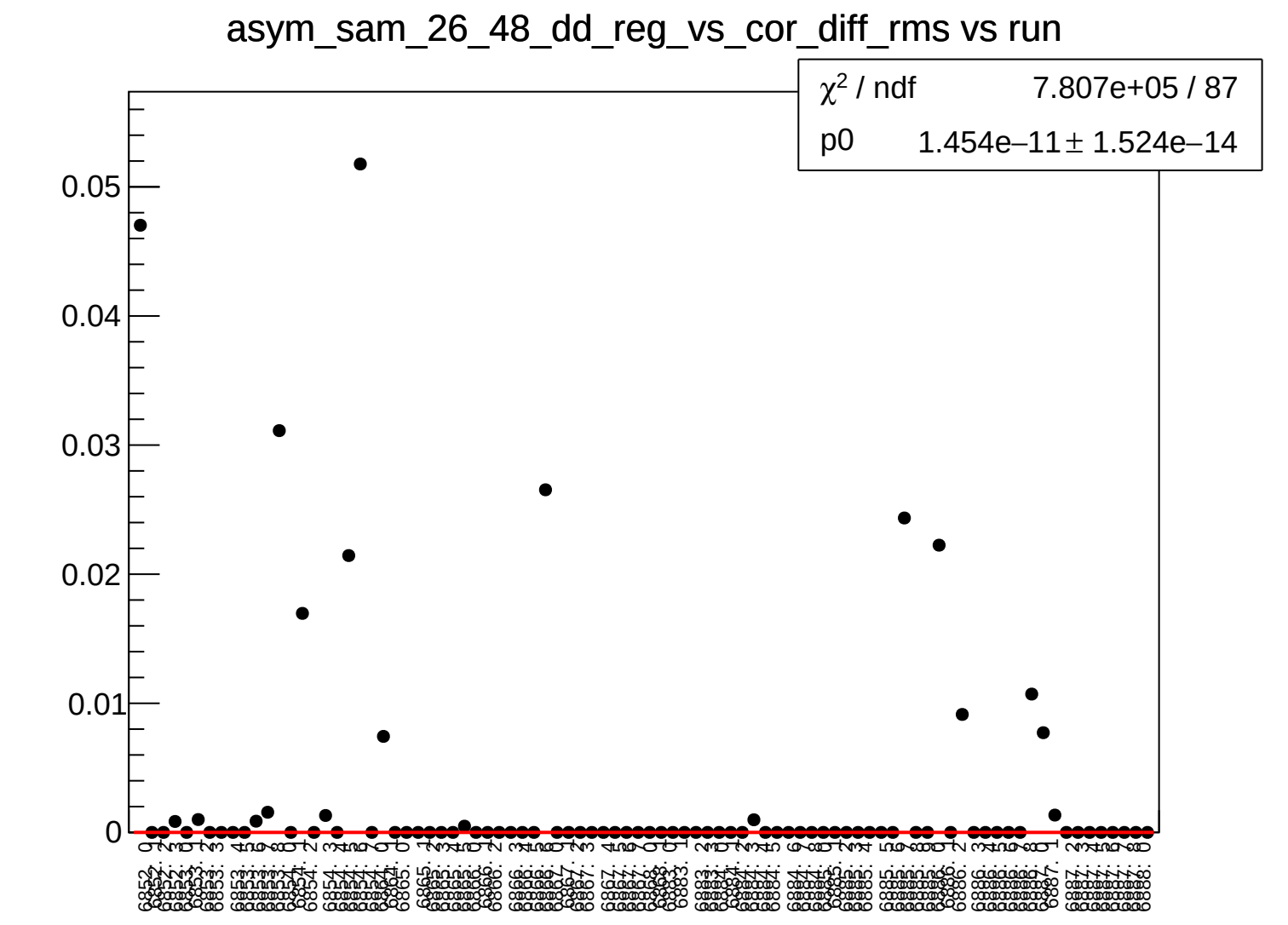

asym_sam_26_48_dd_mean vs run
χ² / ndf 91.34 / 87
p0 −841.2 ± 622.6
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 122.1
Std Dev 0
2
1
0
−1
−2
−3

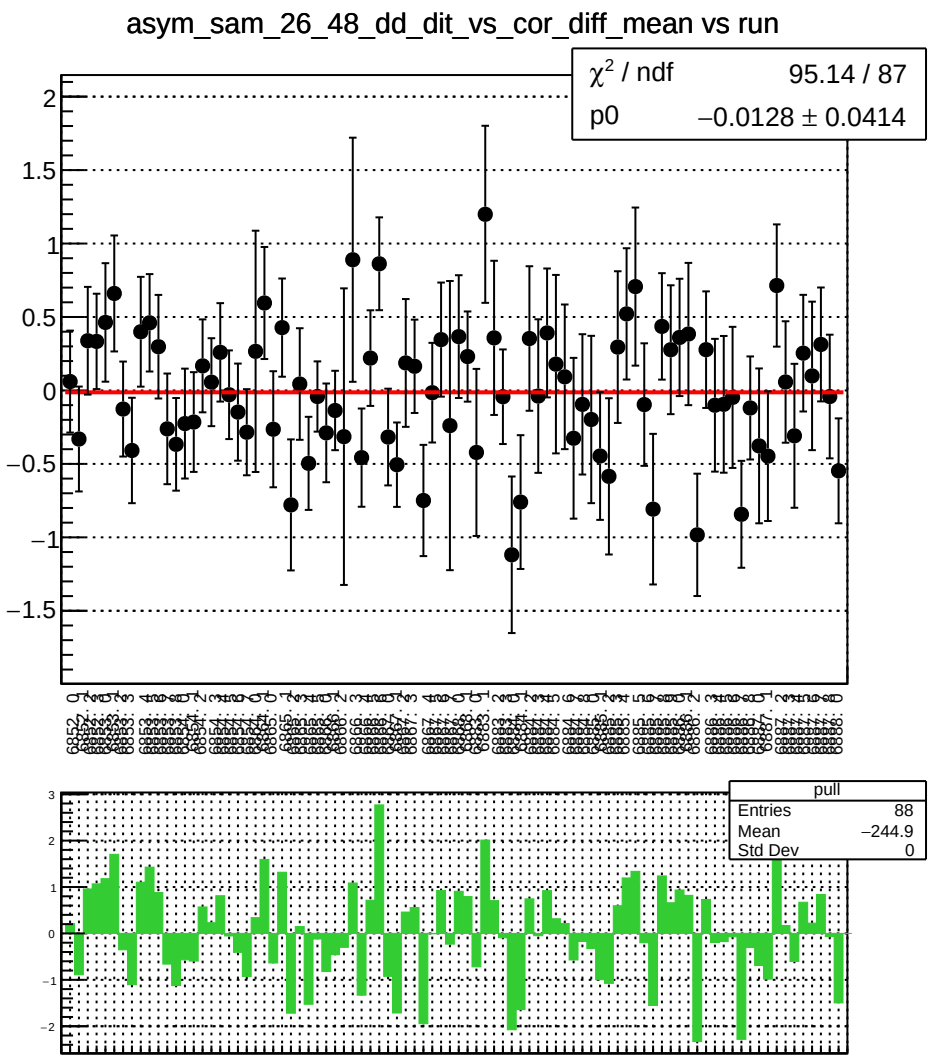

pull1D
Entries 88
Mean 0.03062
Std Dev 1.018
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

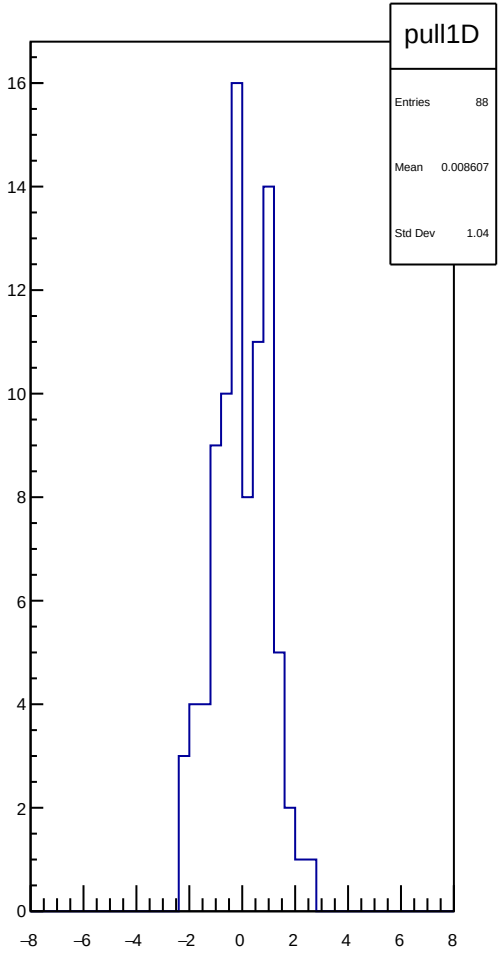

asym_sam_26_48_dd_rms vs run
χ² / ndf 8.628e+04 / 87
p0 557.7 ± 0.4402
800
700
600
500
400

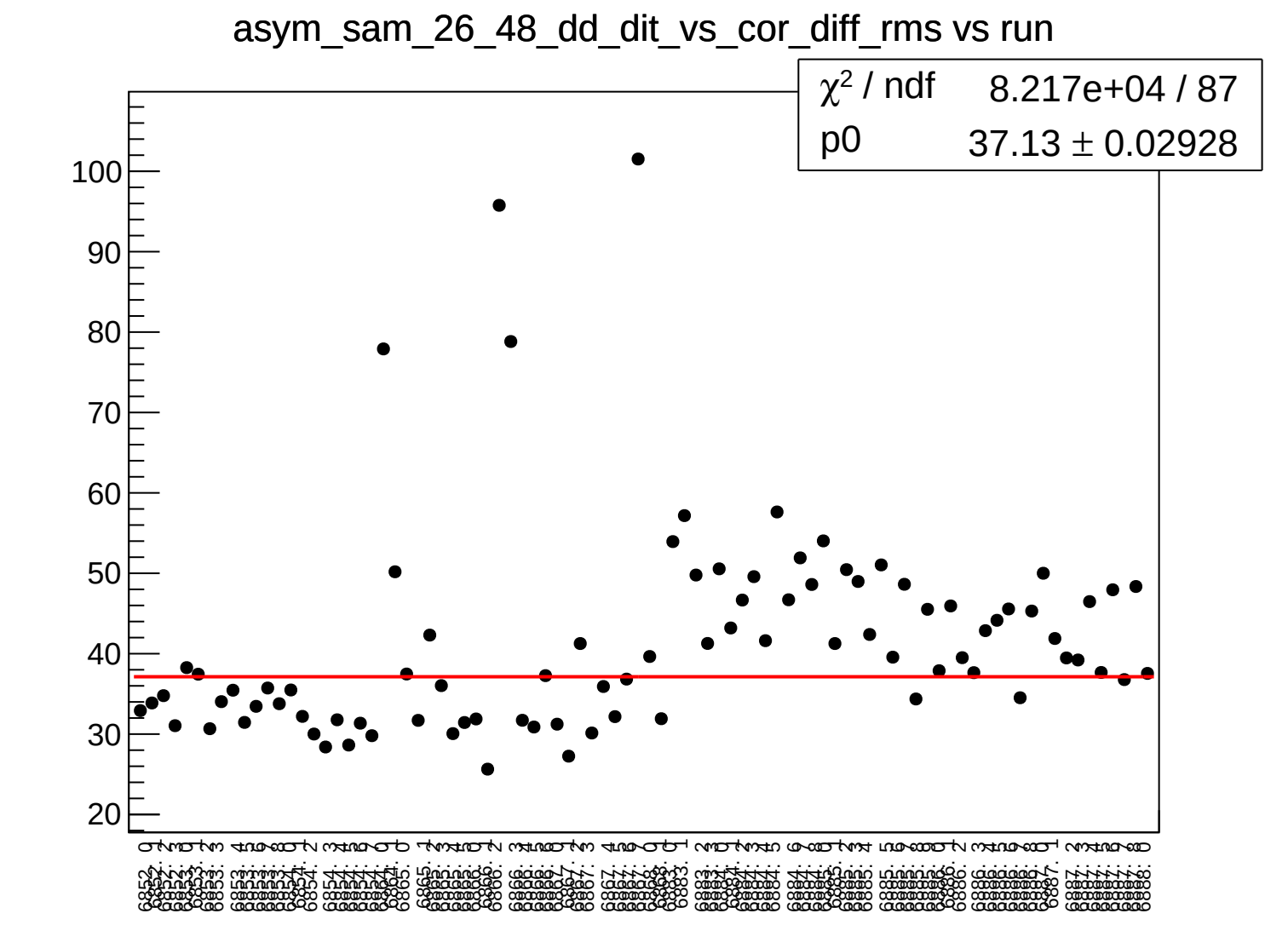

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.89 / 87
p0 1.004e−14 ± 2.155e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 88
Mean 8.797
Std Dev 9.73
2
1
0
−1
−2

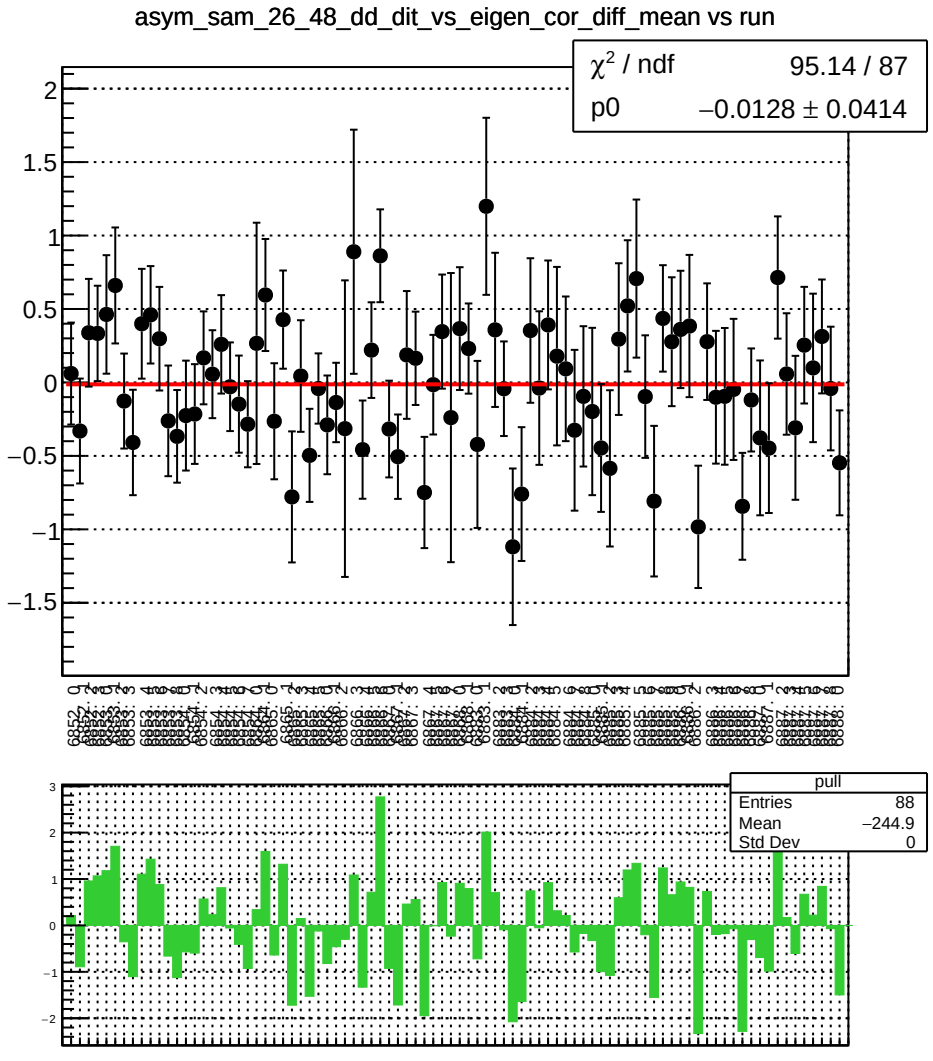

pull1D
Entries 88
Mean −0.09338
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

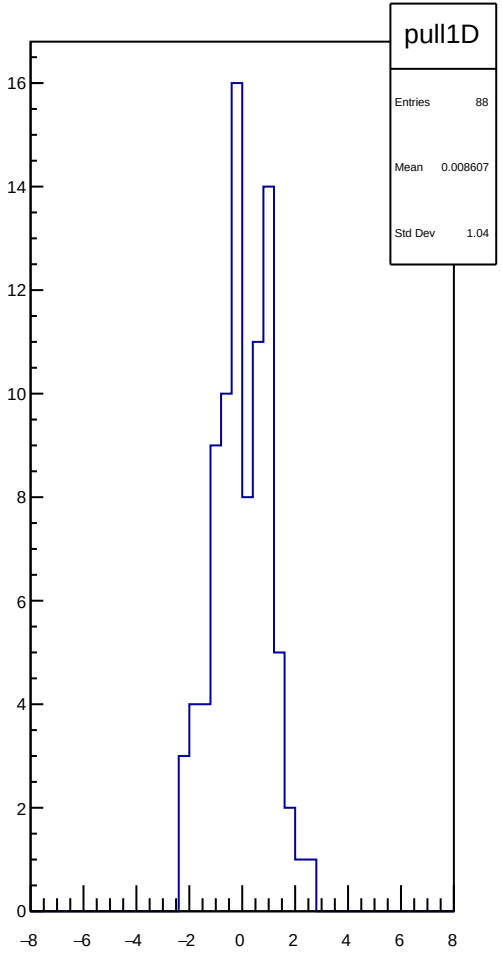

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.807e+05 / 87
p0 1.454e−11 ± 1.524e−14
0.05
0.04
0.03
0.02
0.01
0

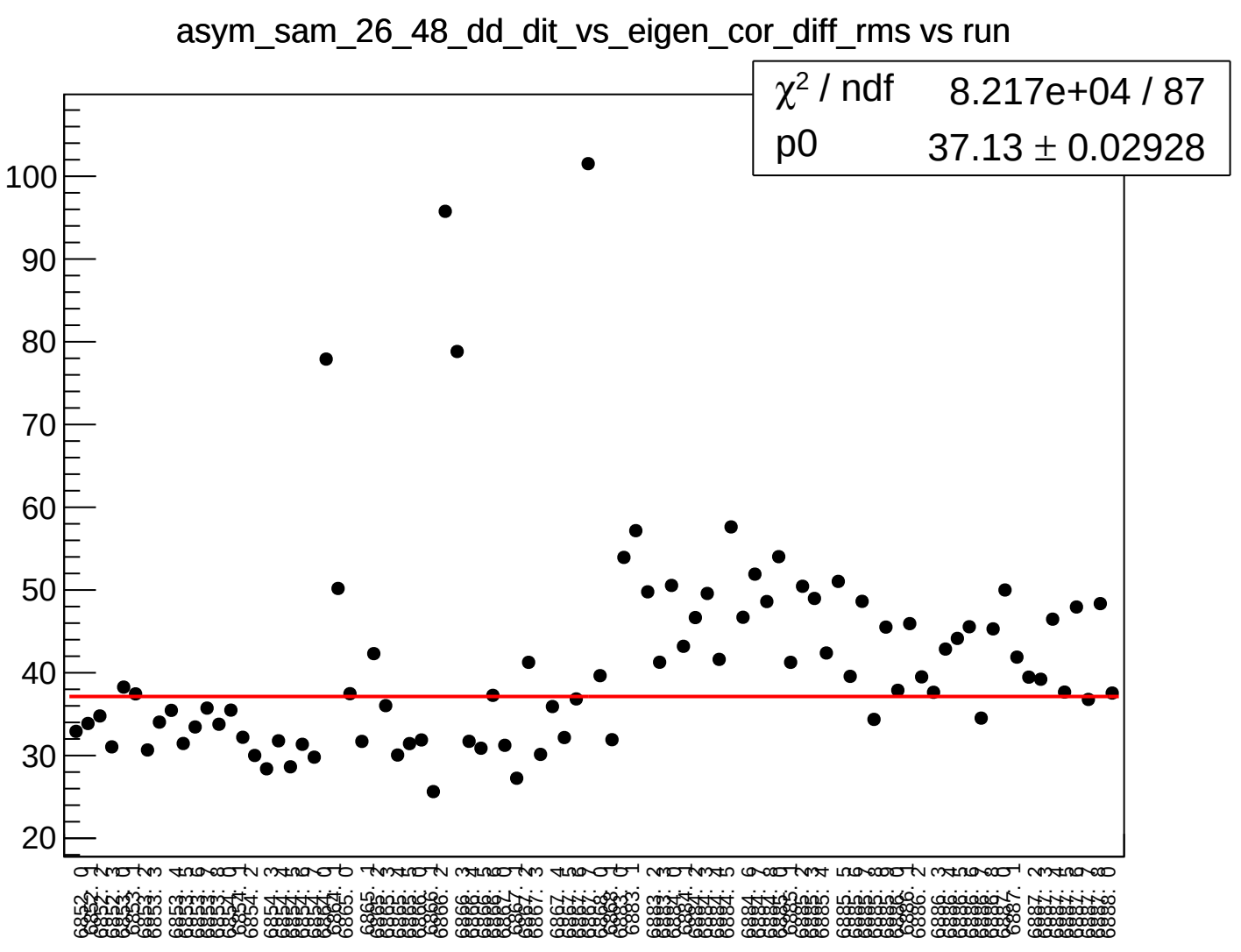

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.14 / 87
p0 −0.0128 ± 0.0414
pull
Entries 88
Mean −244.9
Std Dev 0

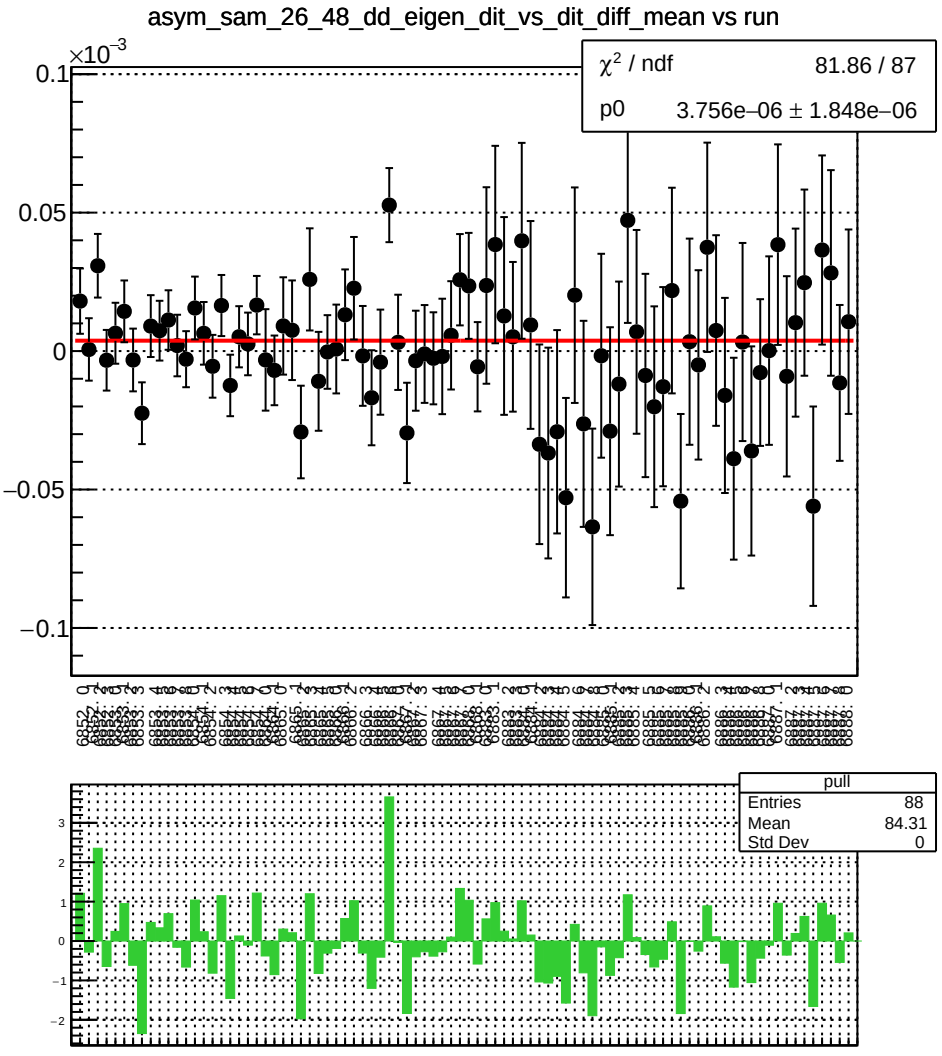

pull1D
Entries 88
Mean 0.008607
Std Dev 1.04

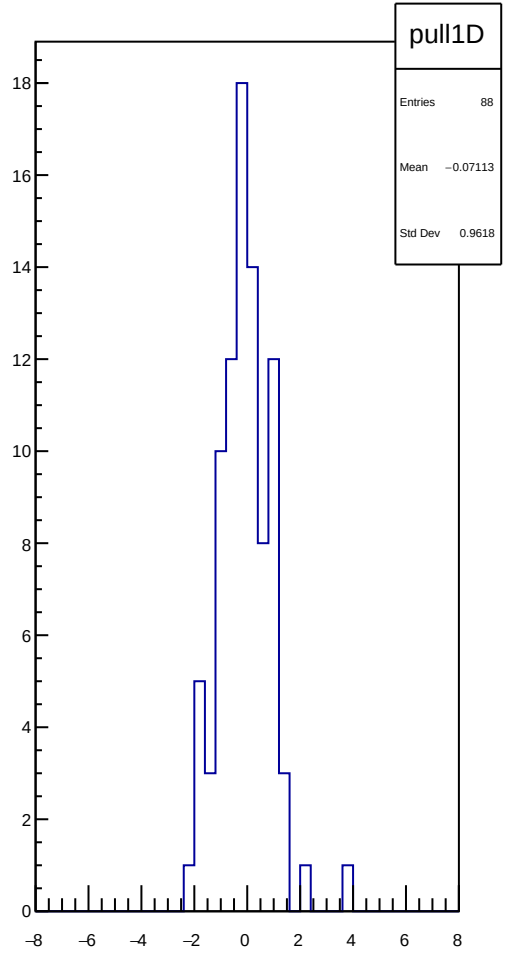

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.217e+04 / 87
p0 37.13 ± 0.02928
100
90
80
70
60
50
40
30
20

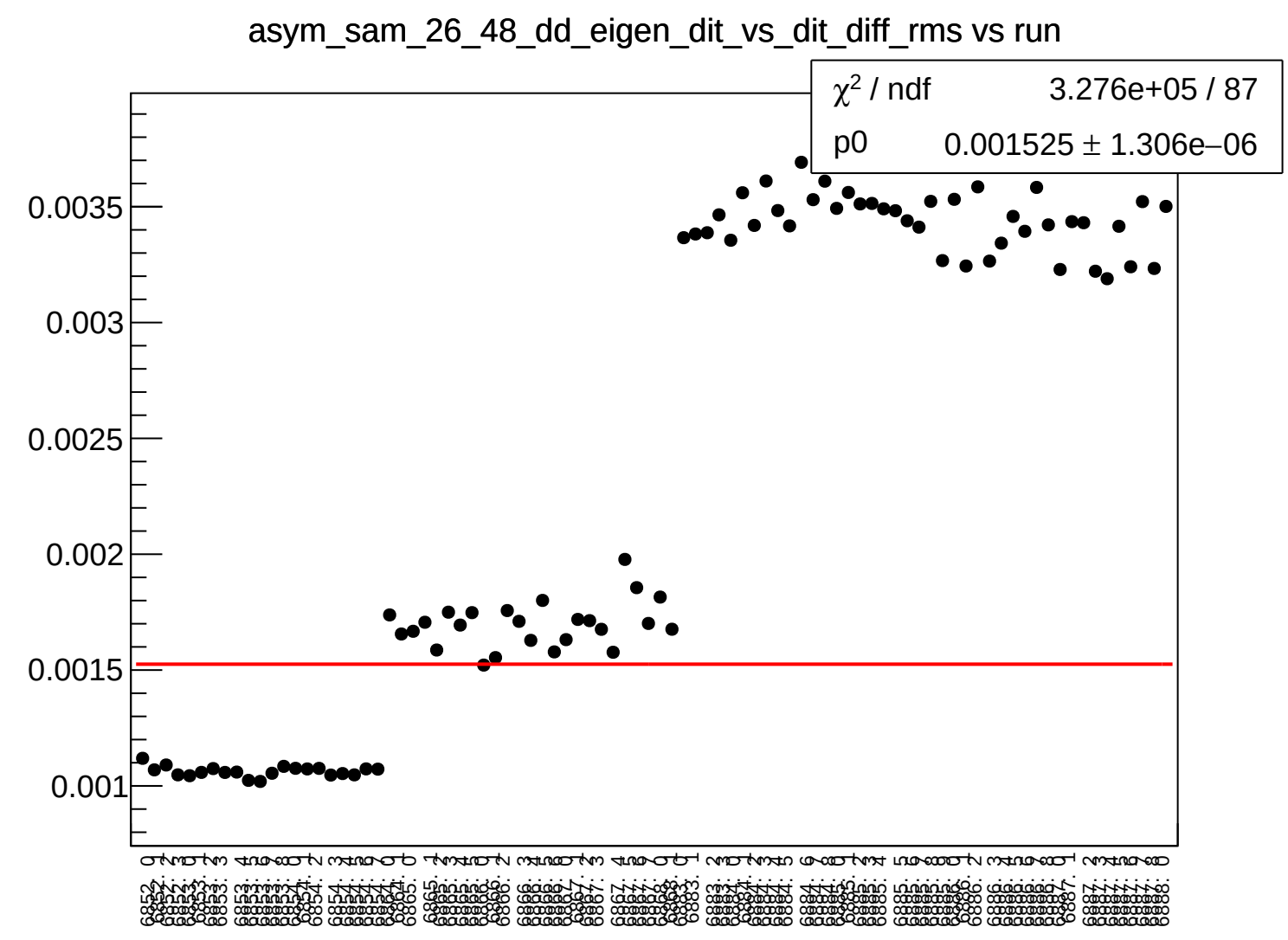

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.14 / 87
p0 −0.0128 ± 0.0414
pull
Entries 88
Mean −244.9
Std Dev 0

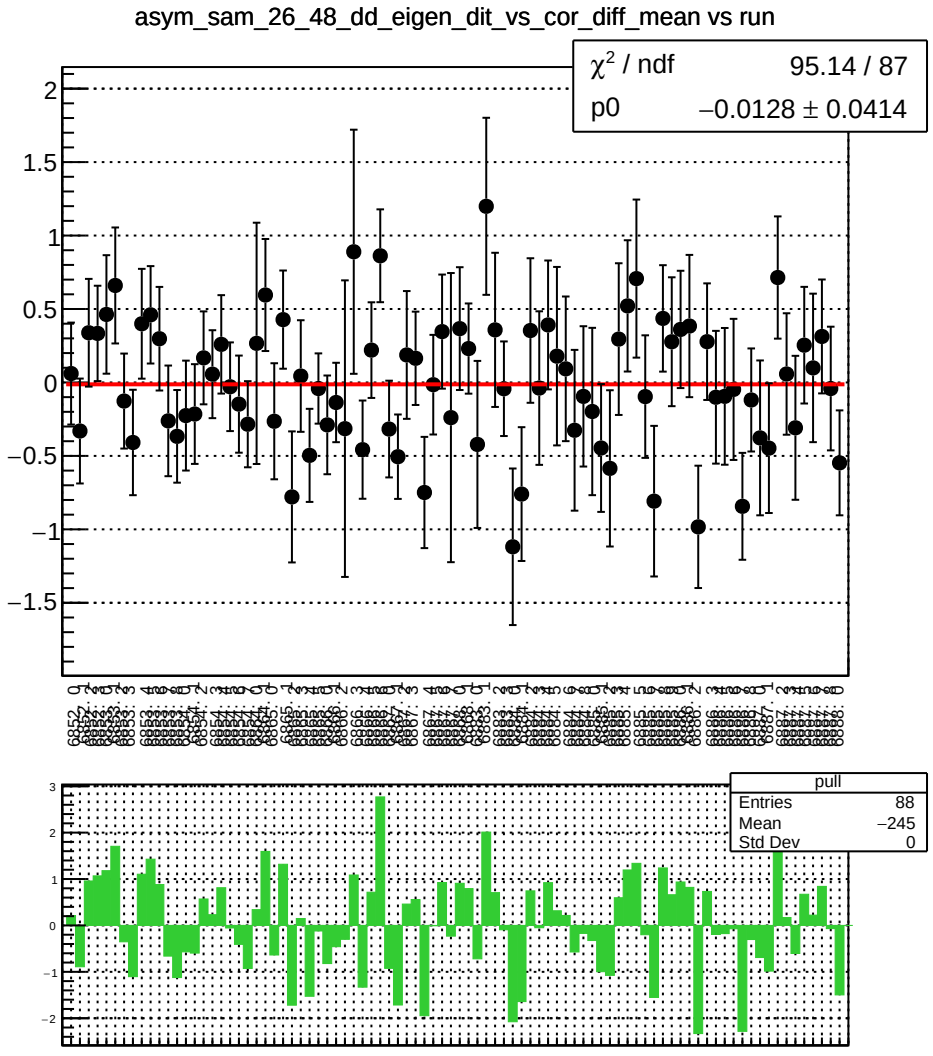

pull1D
Entries 88
Mean 0.008607
Std Dev 1.04

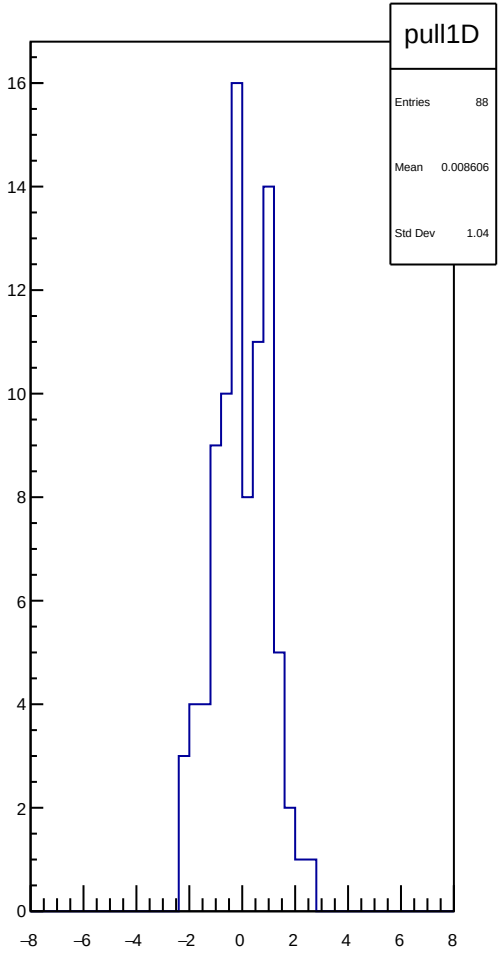

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.217e+04 / 87
p0 37.13 ± 0.02928
100
90
80
70
60
50
40
30
20

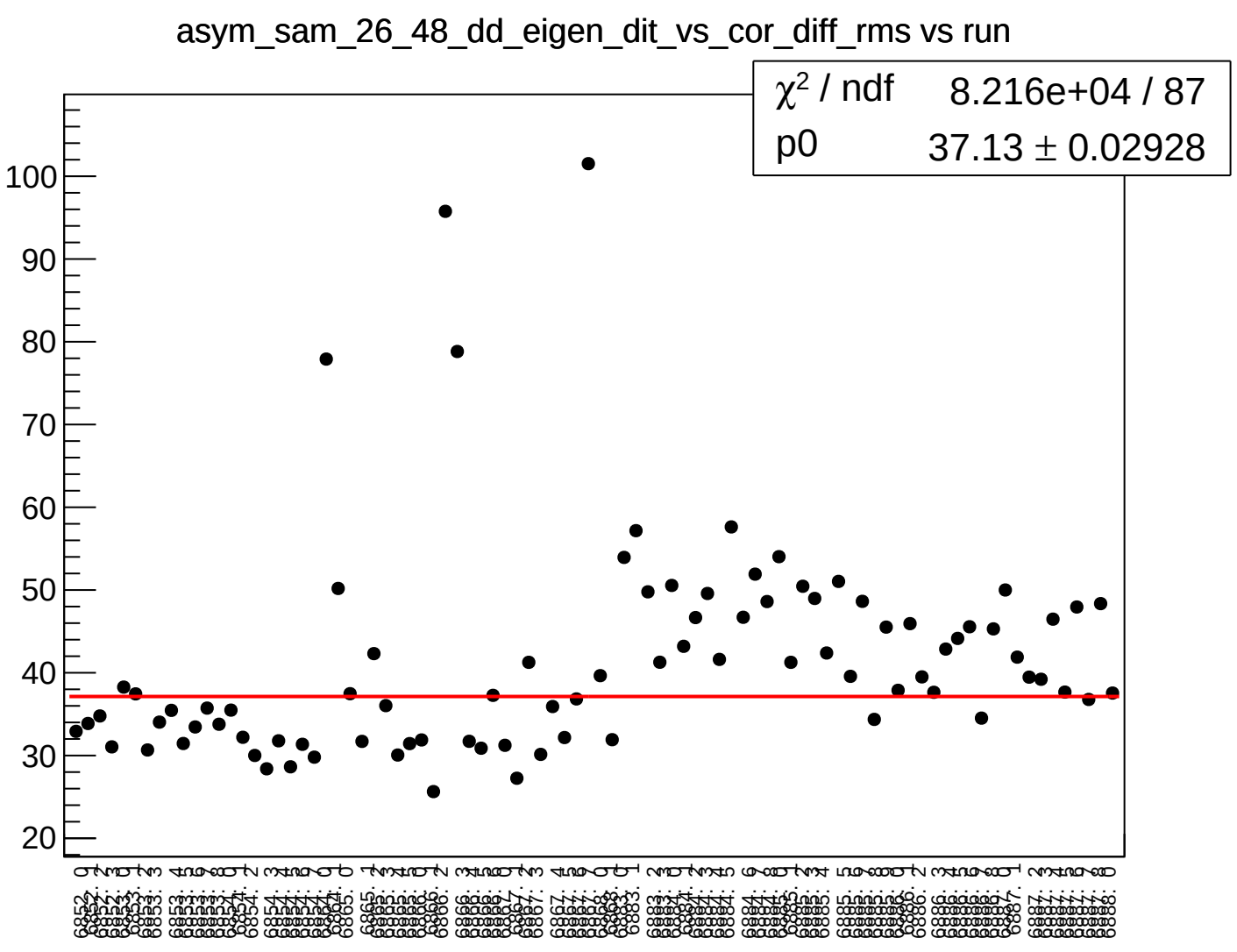

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.86 / 87
p0 3.756e−06 ± 1.848e−06
pull
Entries 88
Mean 84.31
Std Dev 0


pull1D
Entries 88
Mean −0.07113
Std Dev 0.9618

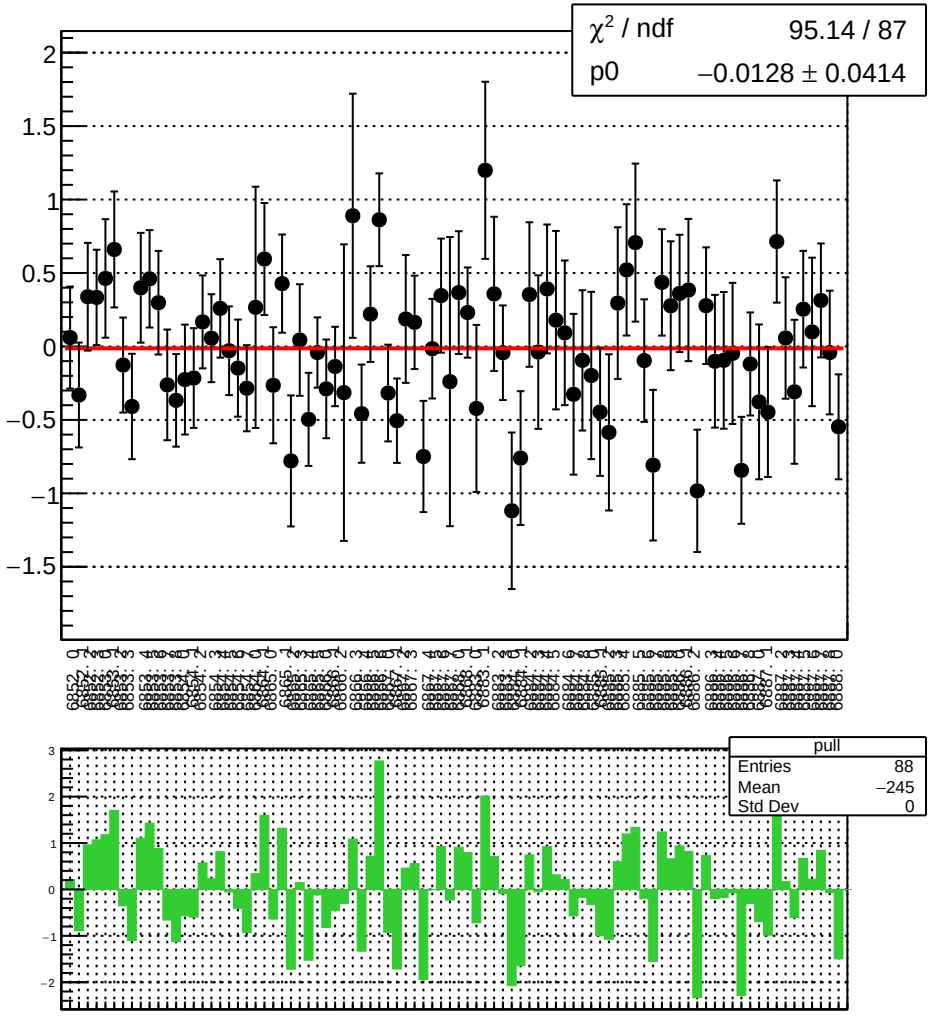

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.276e+05 / 87
p0 0.001525 ± 1.306e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

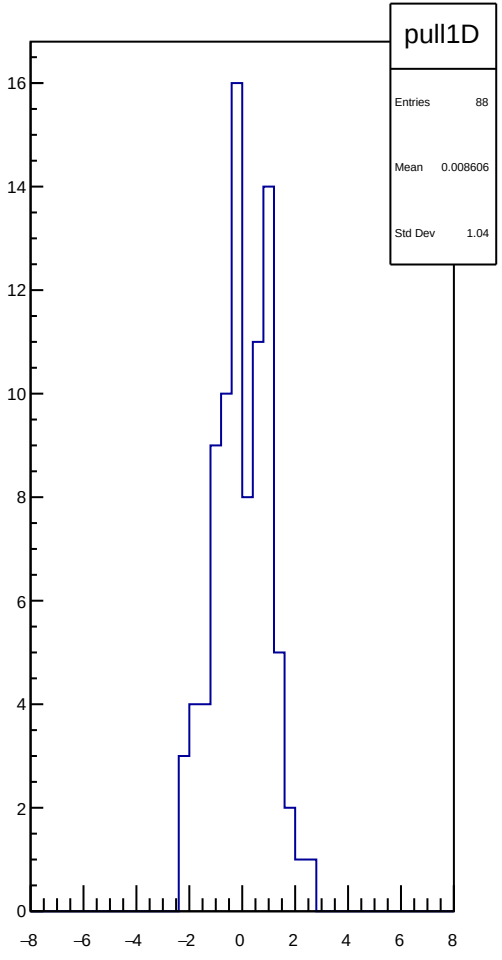

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.14 / 87
p0 −0.0128 ± 0.0414
pull
Entries 88
Mean −245
Std Dev 0

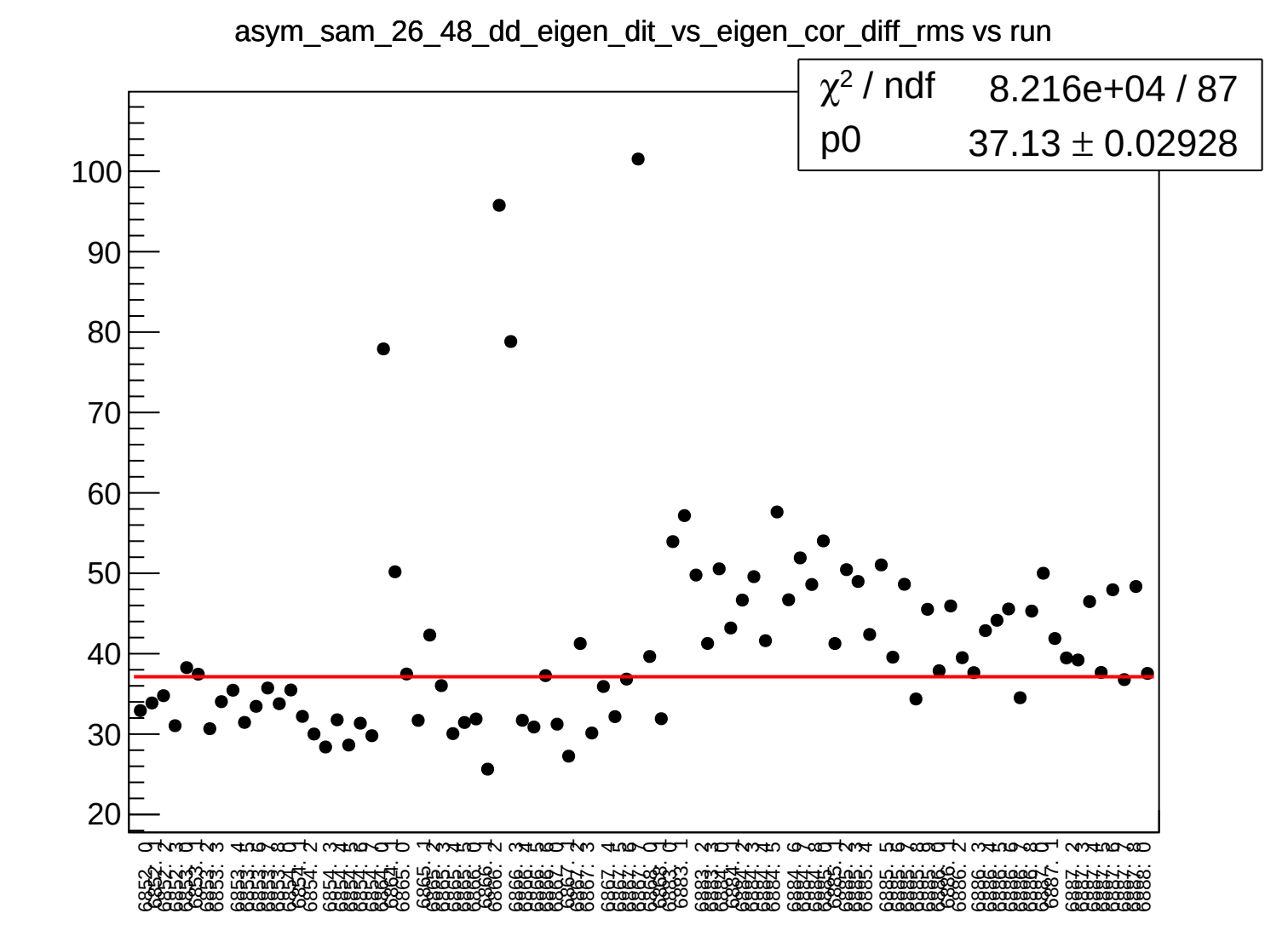

pull1D
Entries 88
Mean 0.008606
Std Dev 1.04

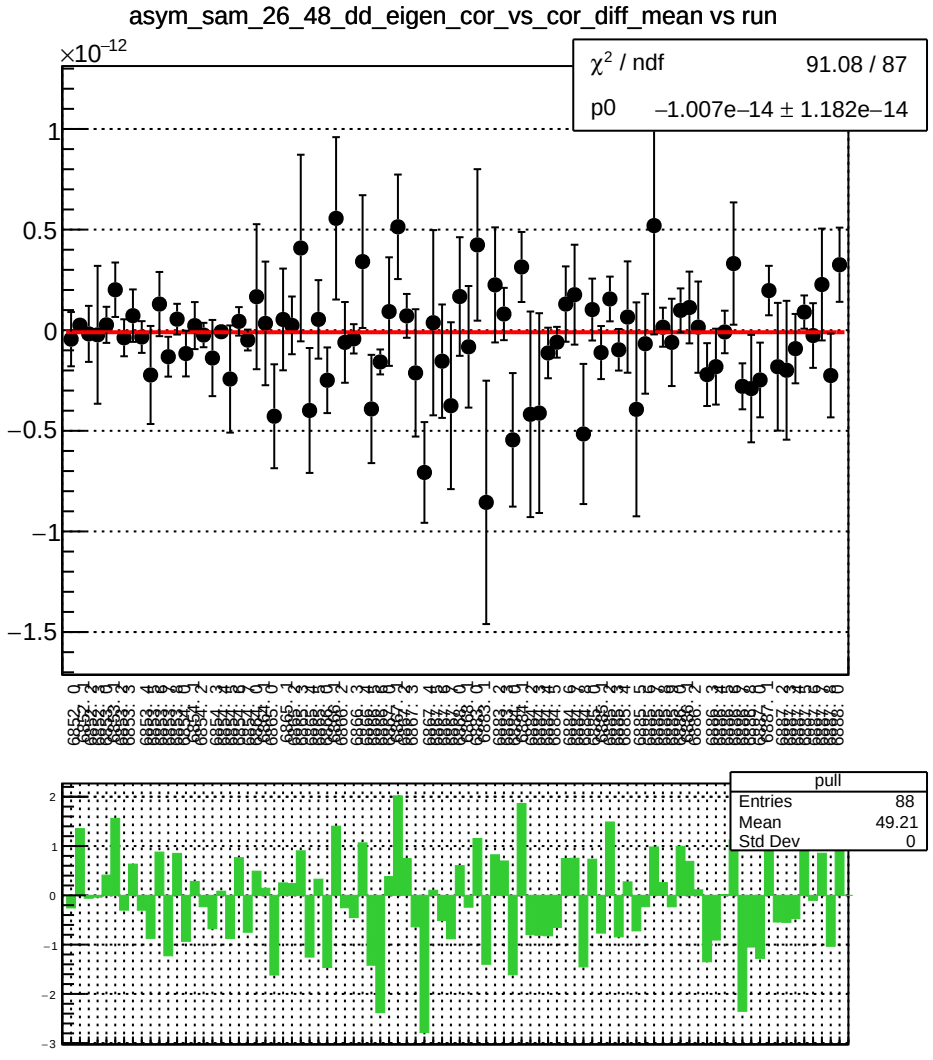

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.216e+04 / 87
p0 37.13 ± 0.02928
100
90
80
70
60
50
40
30
20

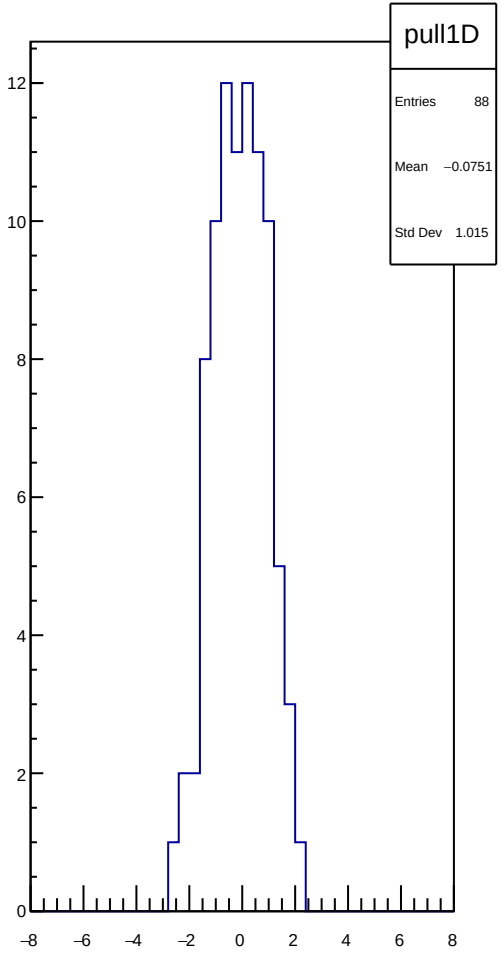
asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

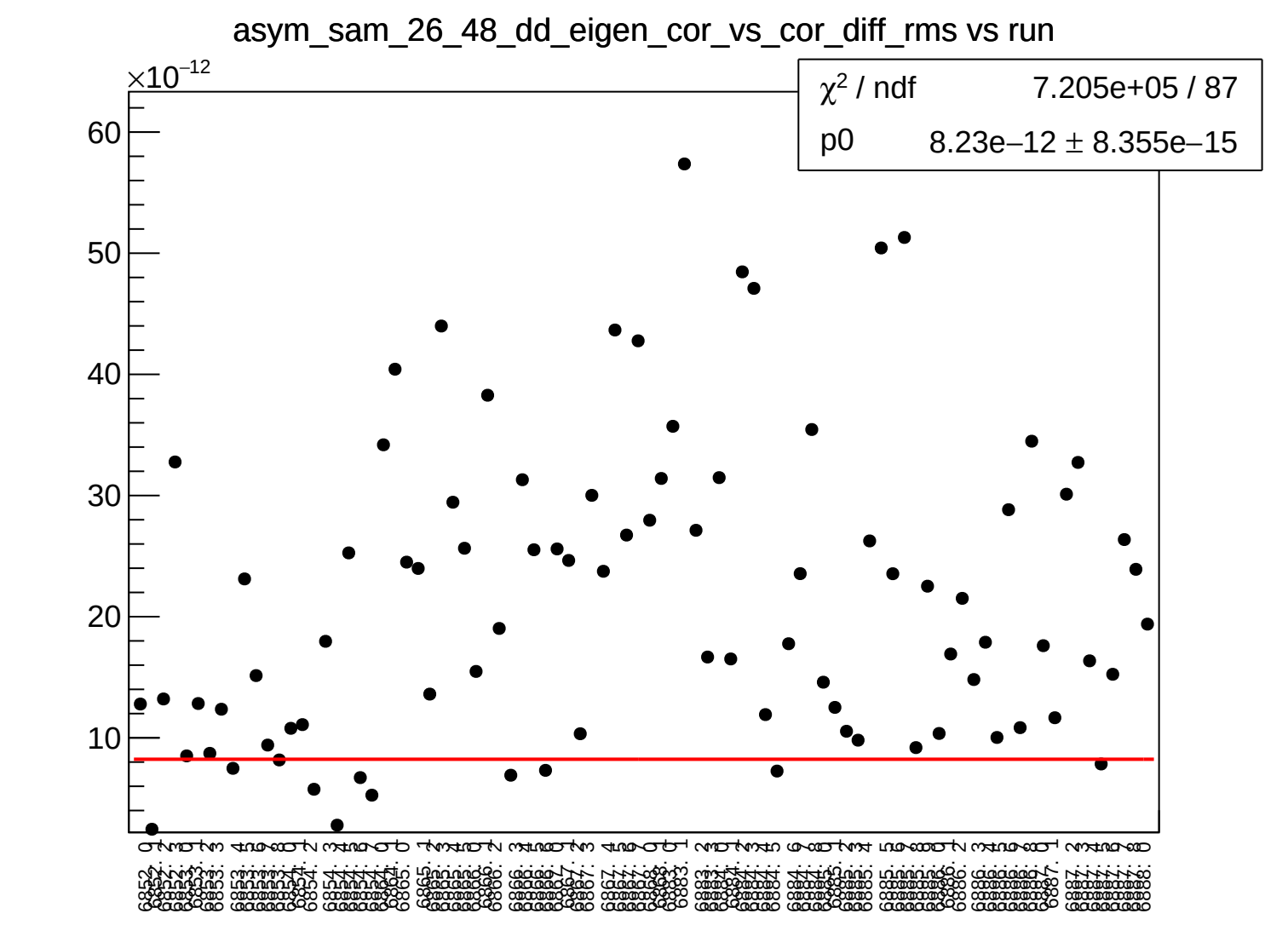


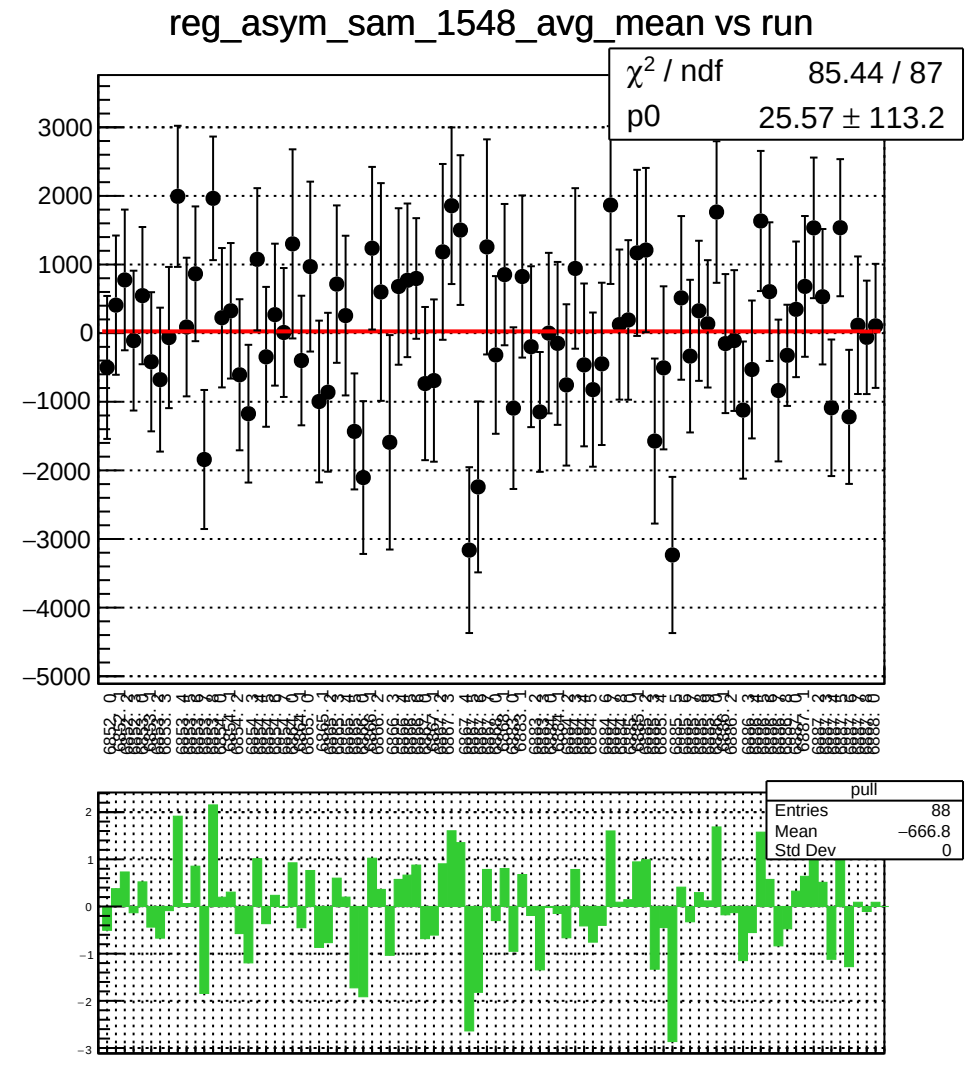


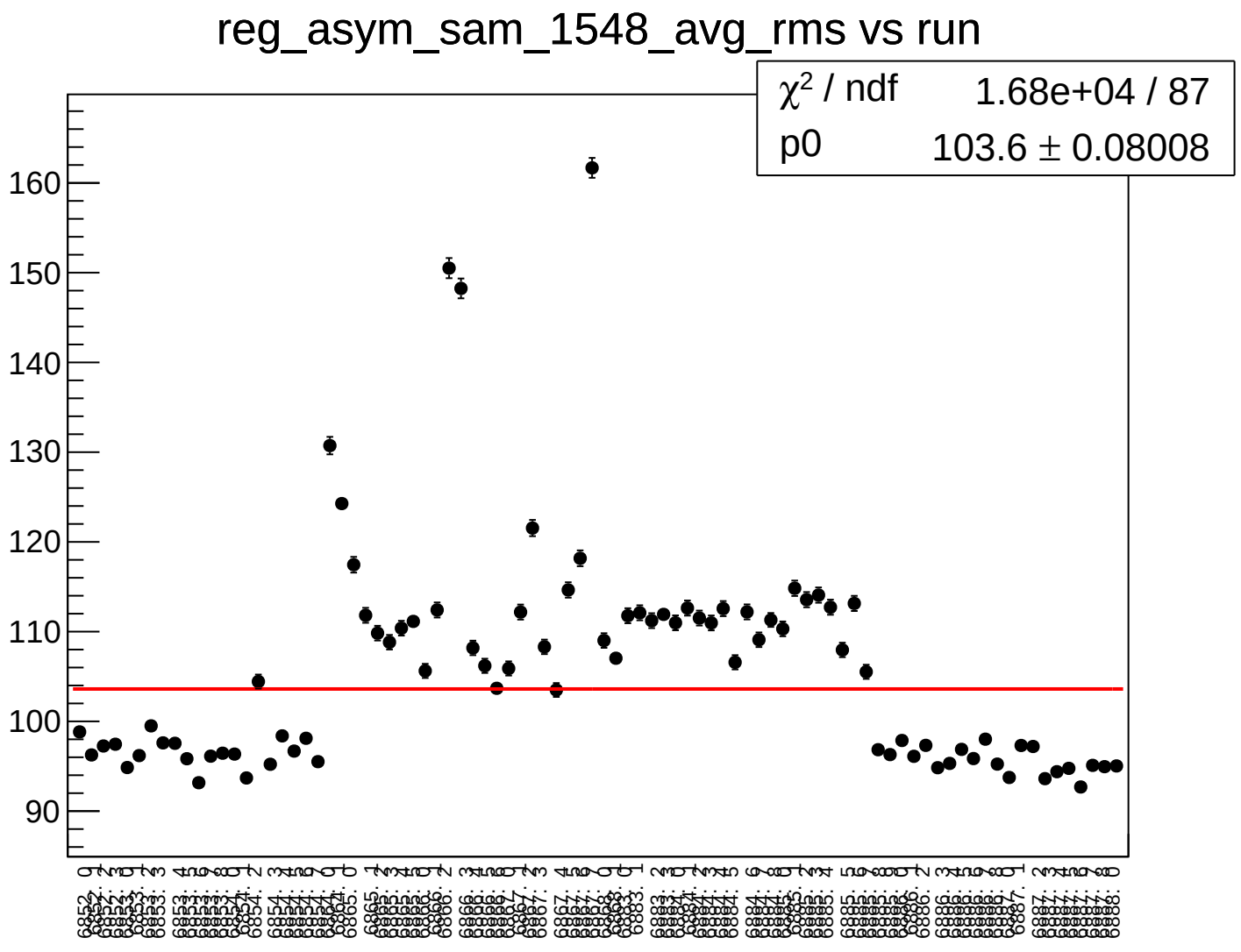

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.216e+04 / 87
p0 37.13 ± 0.02928
100
90
80
70
60
50
40
30
20

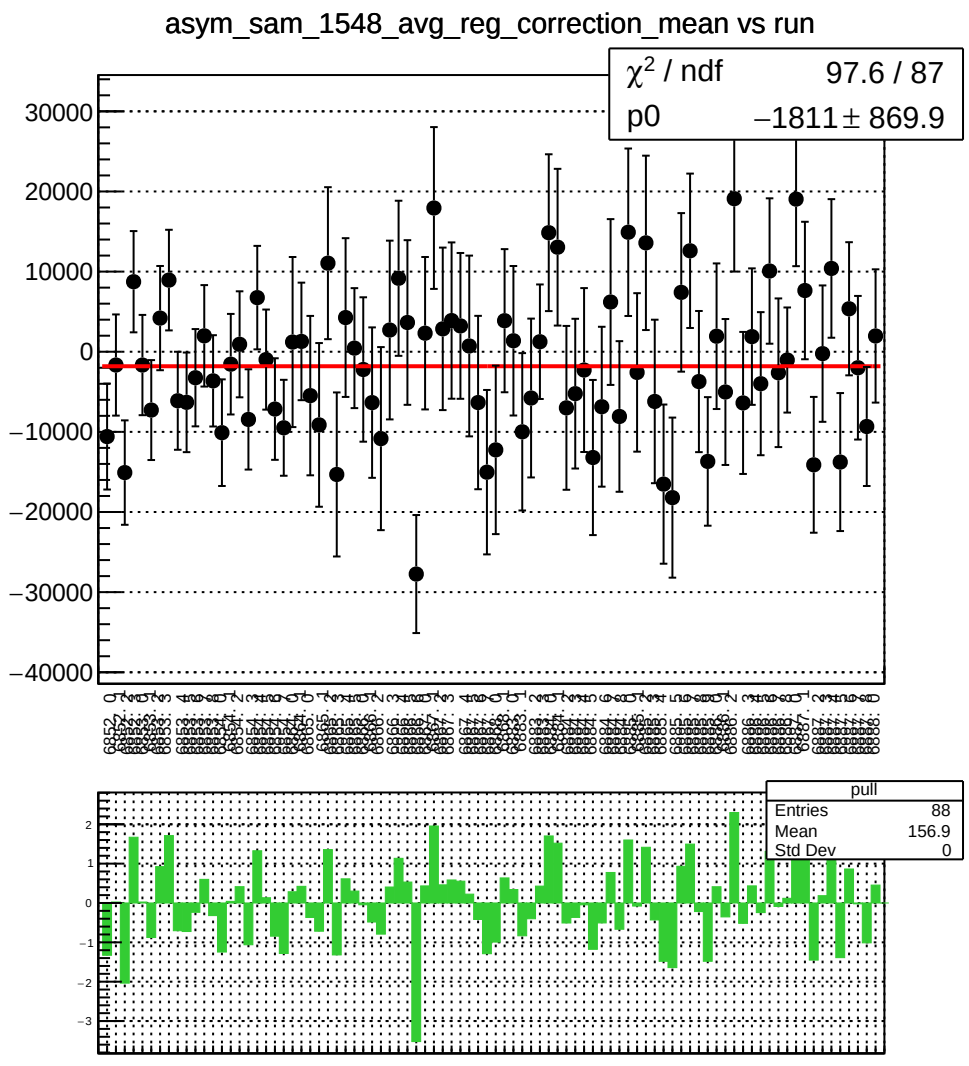

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.08 / 87
p0 −1.007e−14 ± 1.182e−14
pull
Entries 88
Mean 49.21
Std Dev 0

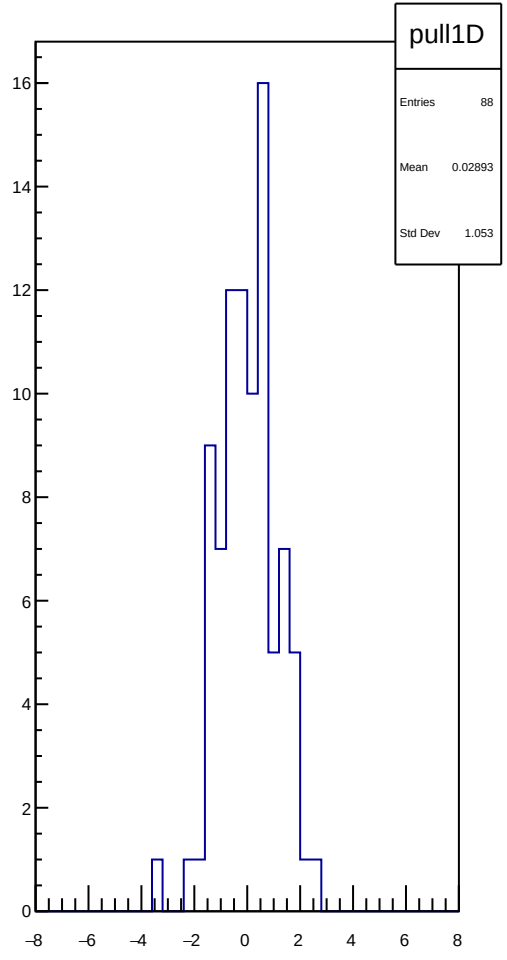

pull1D
Entries 88
Mean −0.0751
Std Dev 1.015

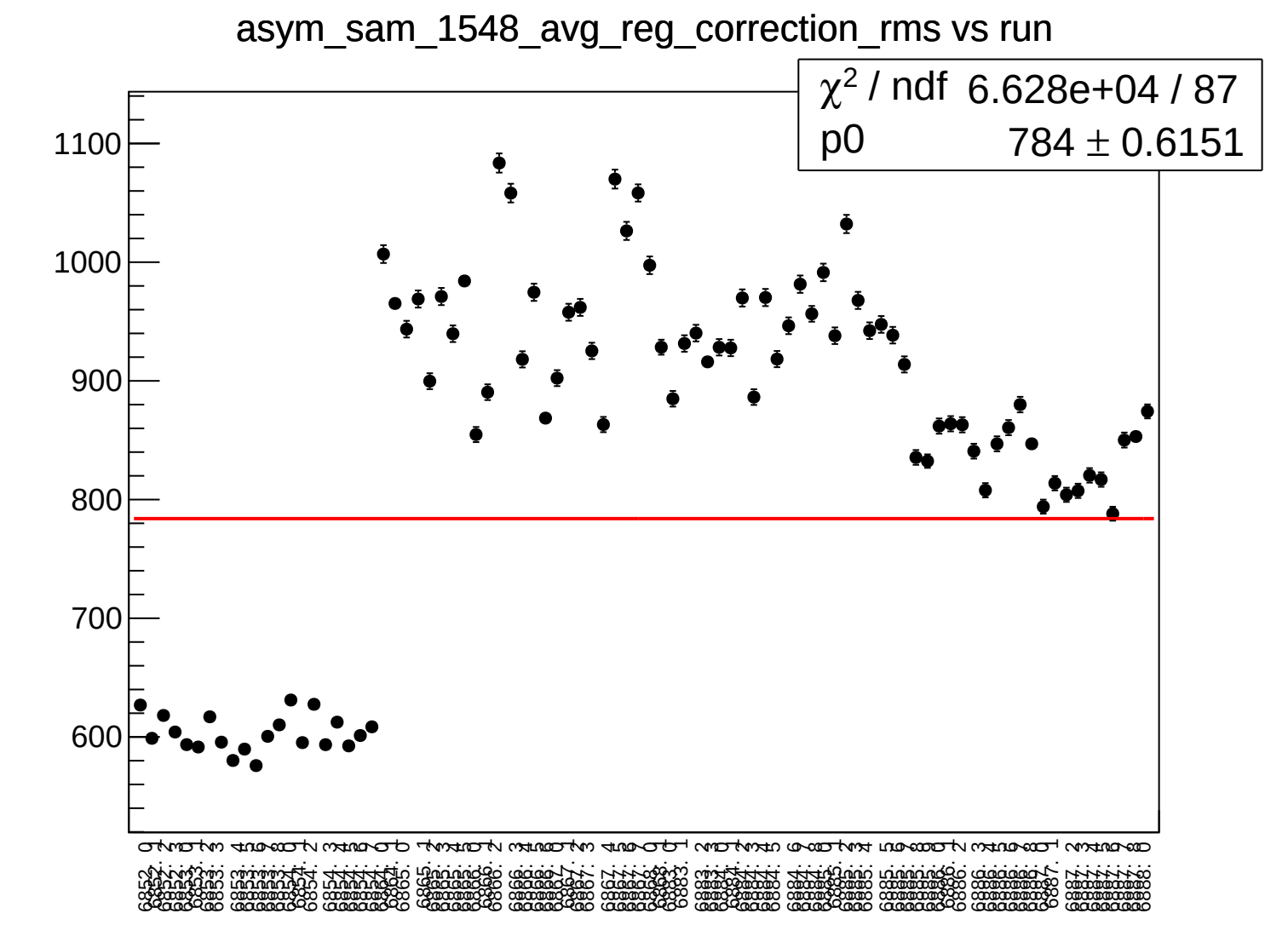

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.205e+05 / 87
p0 8.23e−12 ± 8.355e−15
60
50
40
30
20
10

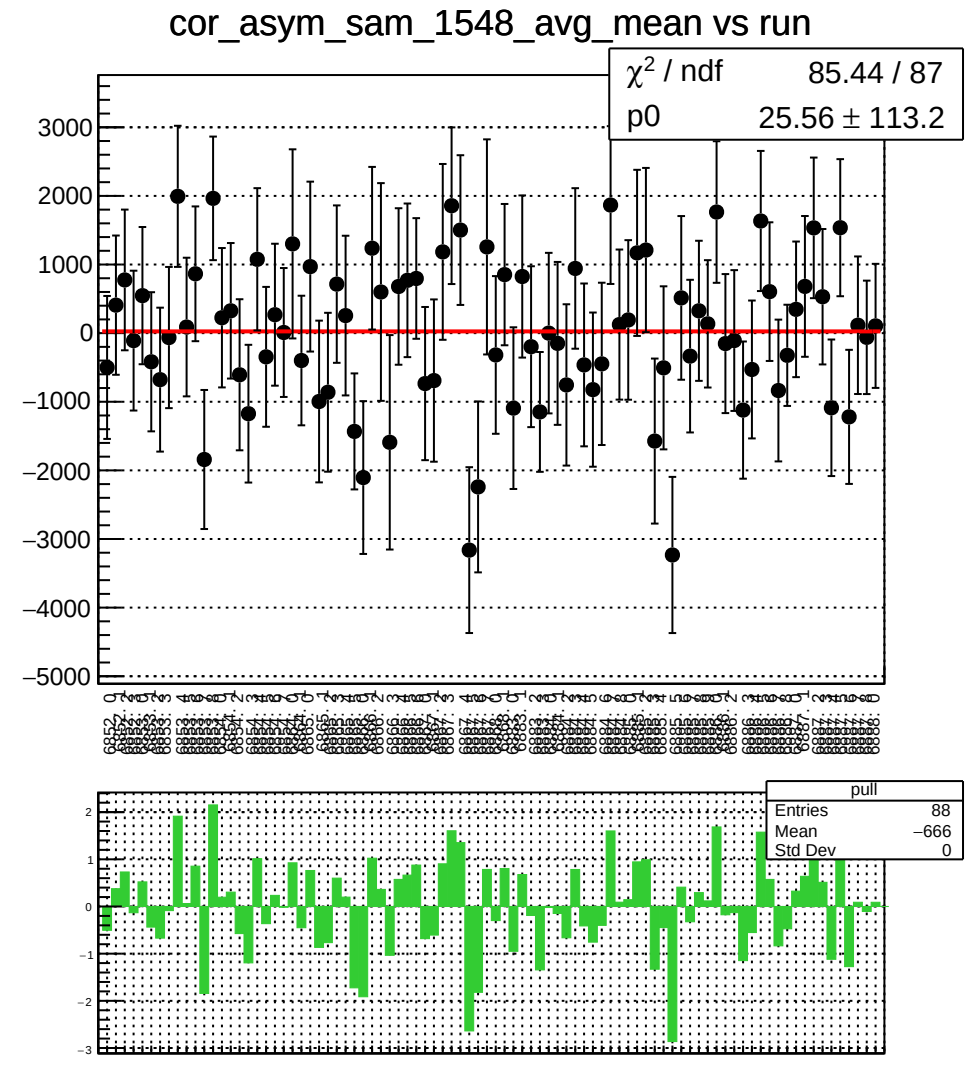

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 85.44 / 87
p0 25.57 ± 113.2
pull
Entries 88
Mean −666.8
Std Dev 0
pull1D
Entries 88
Mean 0.0005341
Std Dev 0.9853

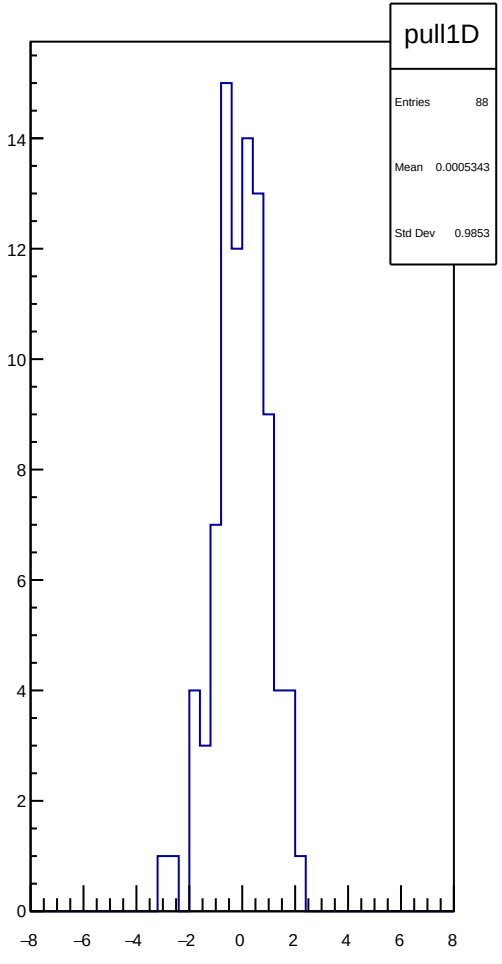

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1.68e+04 / 87
p0 103.6 ± 0.08008
160
150
140
130
120
110
100
90

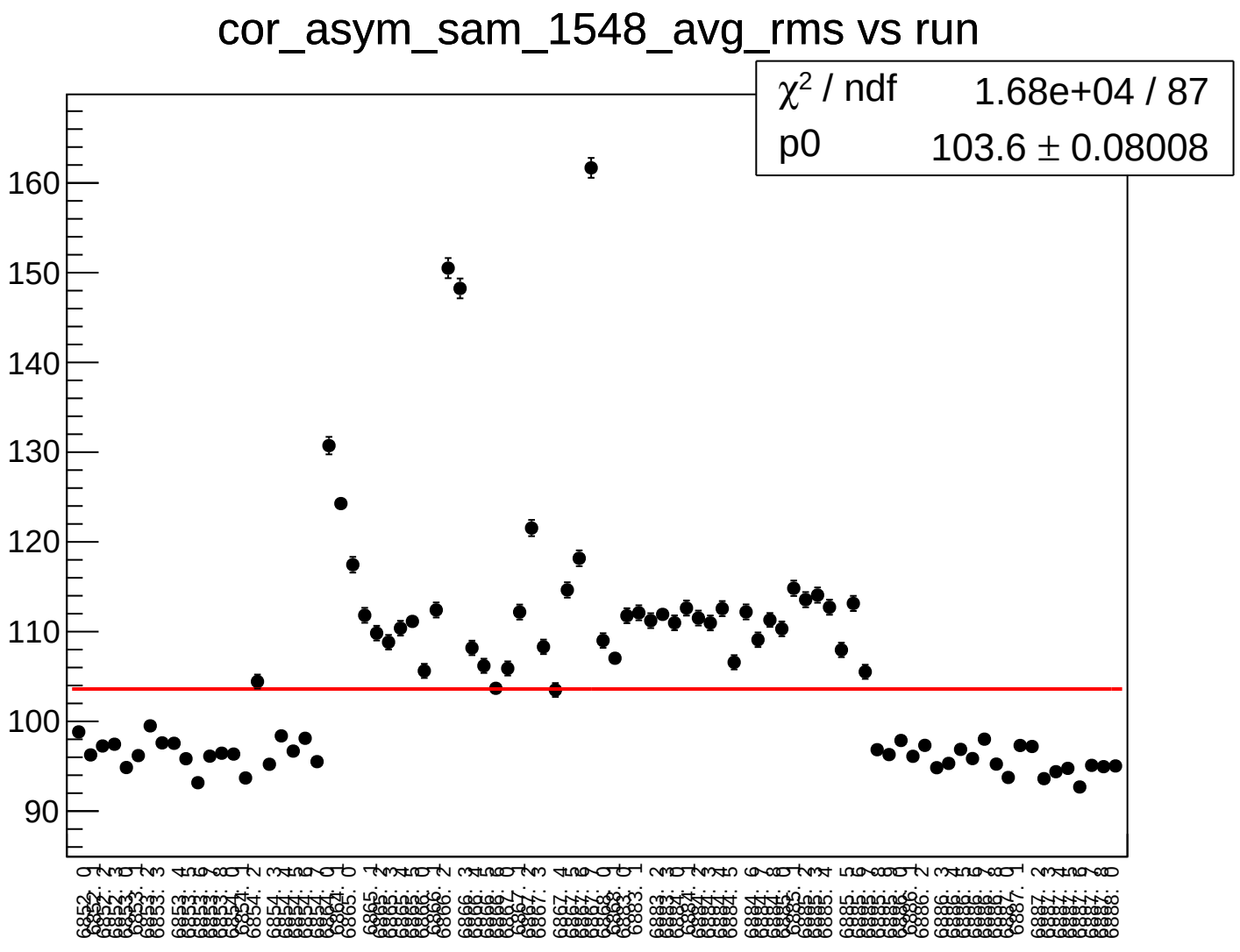

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 97.6 / 87
p0 −1811 ± 869.9
pull
Entries 88
Mean 156.9
Std Dev 0

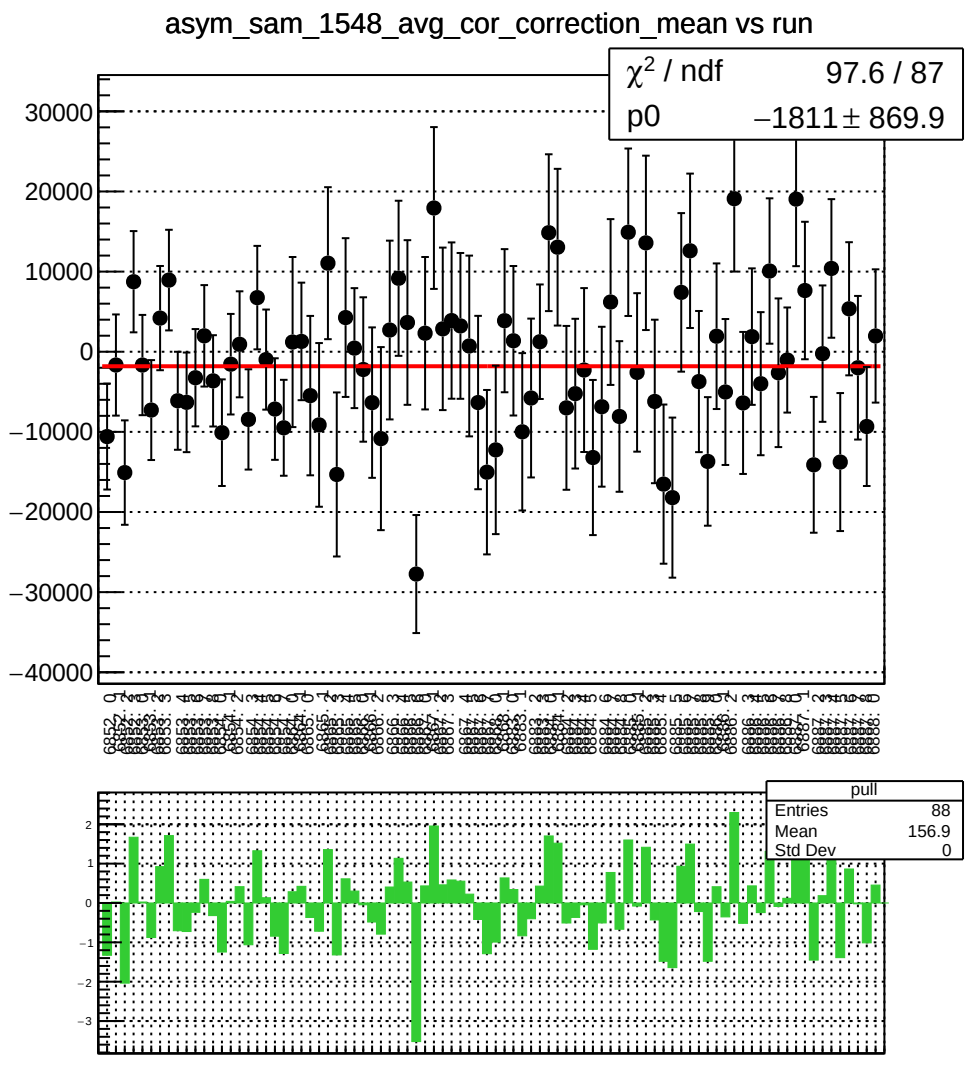

pull1D
Entries 88
Mean 0.02893
Std Dev 1.053

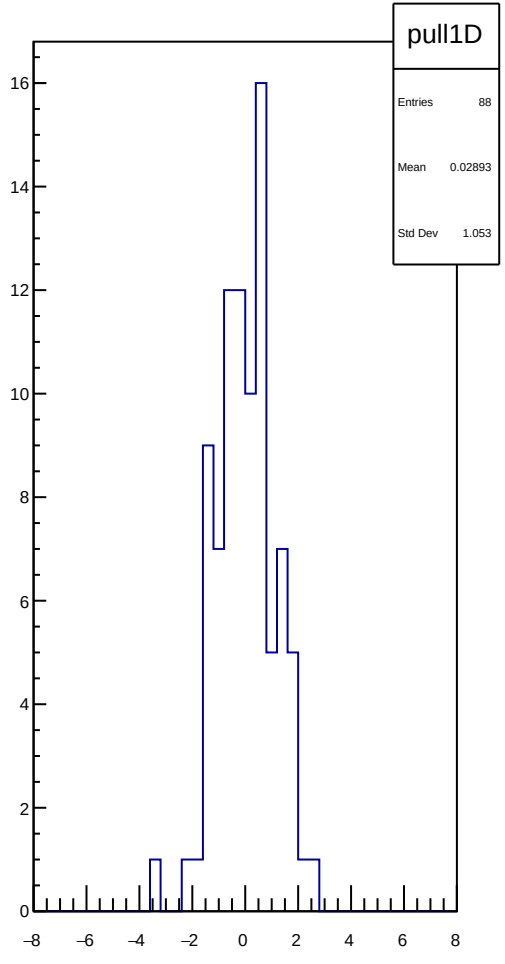

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 6.628e+04 / 87
p0 784 ± 0.6151
1100
1000
900
800
700
600

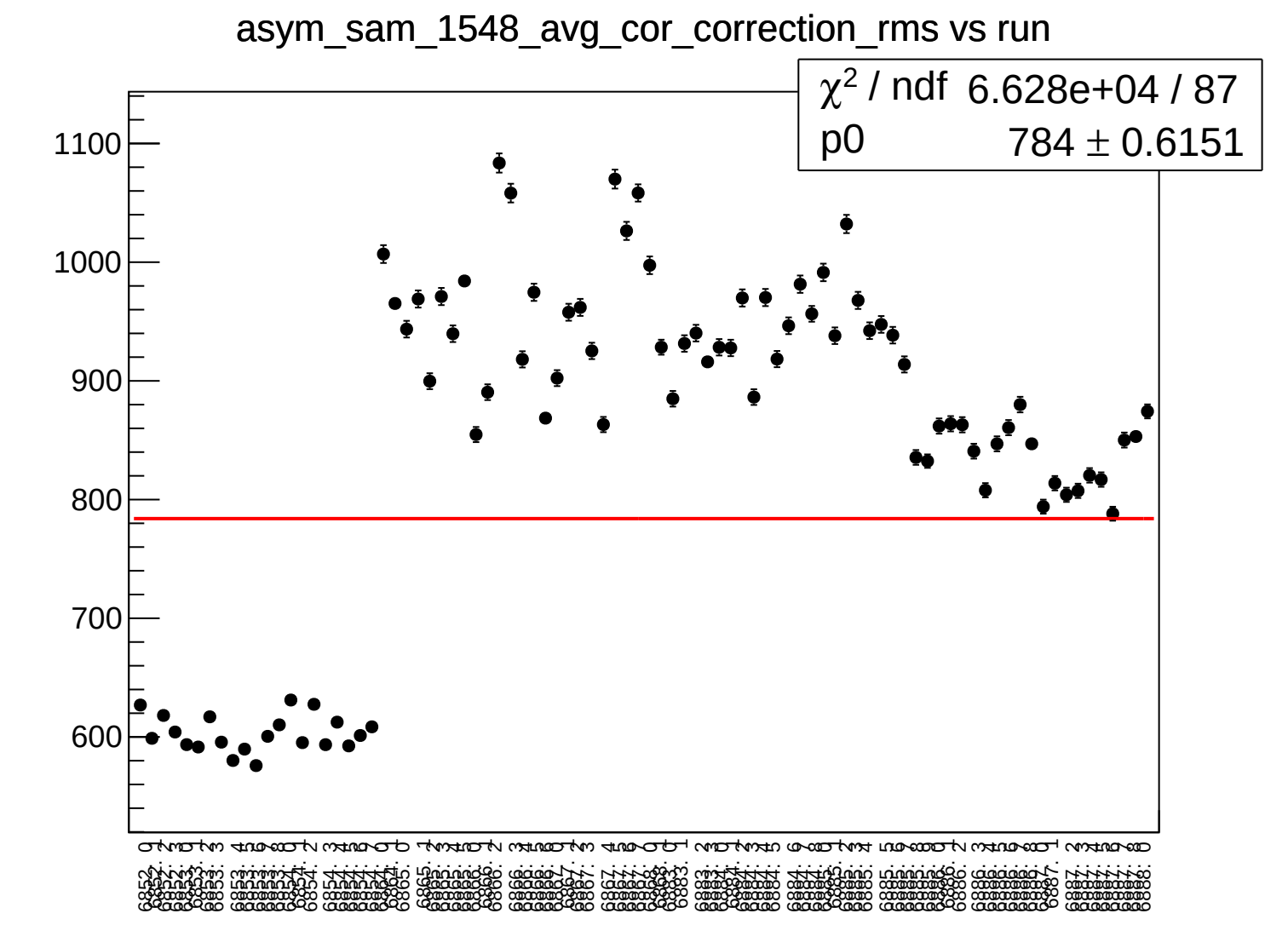

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 85.44 / 87
p0 25.56 ± 113.2
pull
Entries 88
Mean −666
Std Dev 0

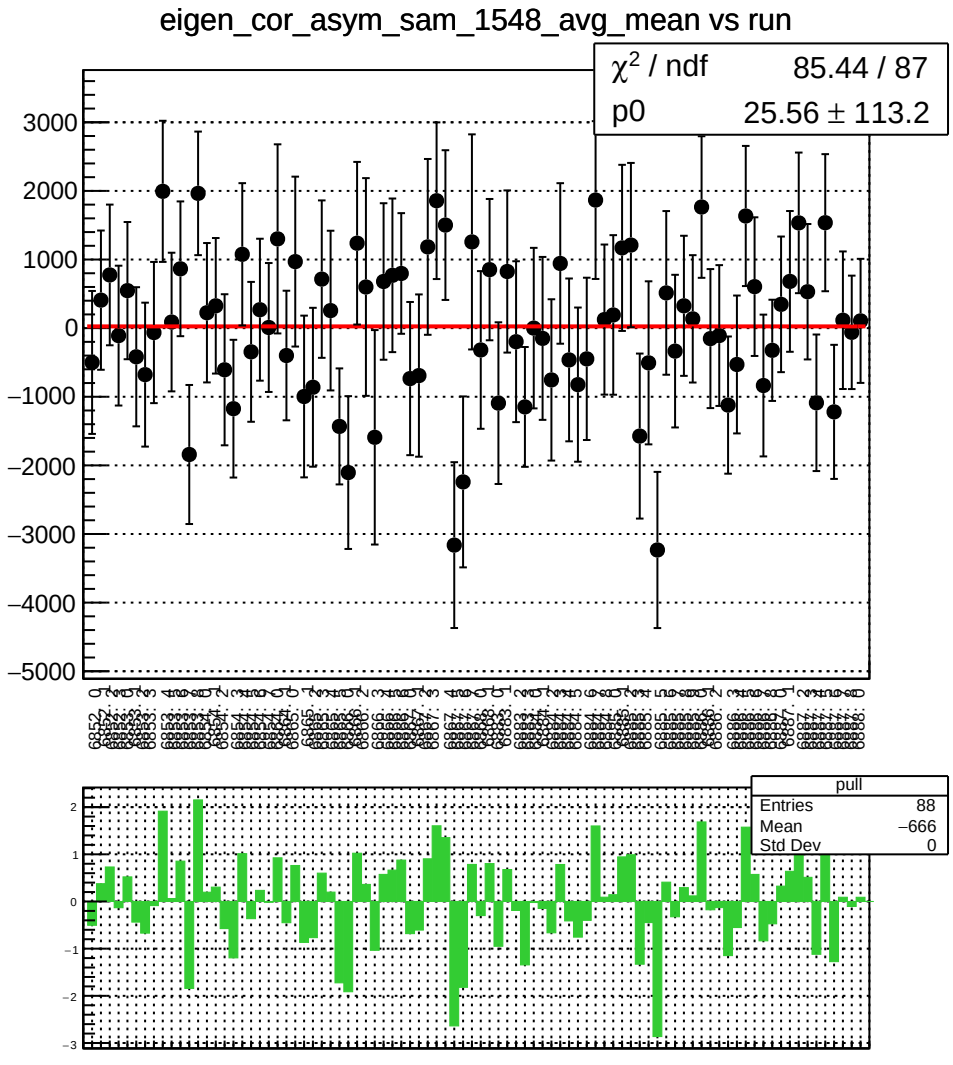

pull1D
Entries 88
Mean 0.0005343
Std Dev 0.9853

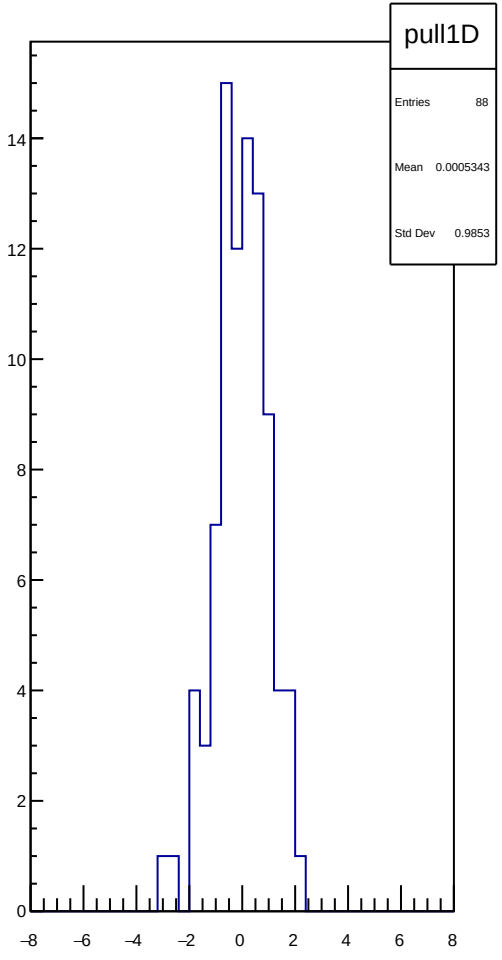

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.68e+04 / 87
p0 103.6 ± 0.08008
160
150
140
130
120
110
100
90

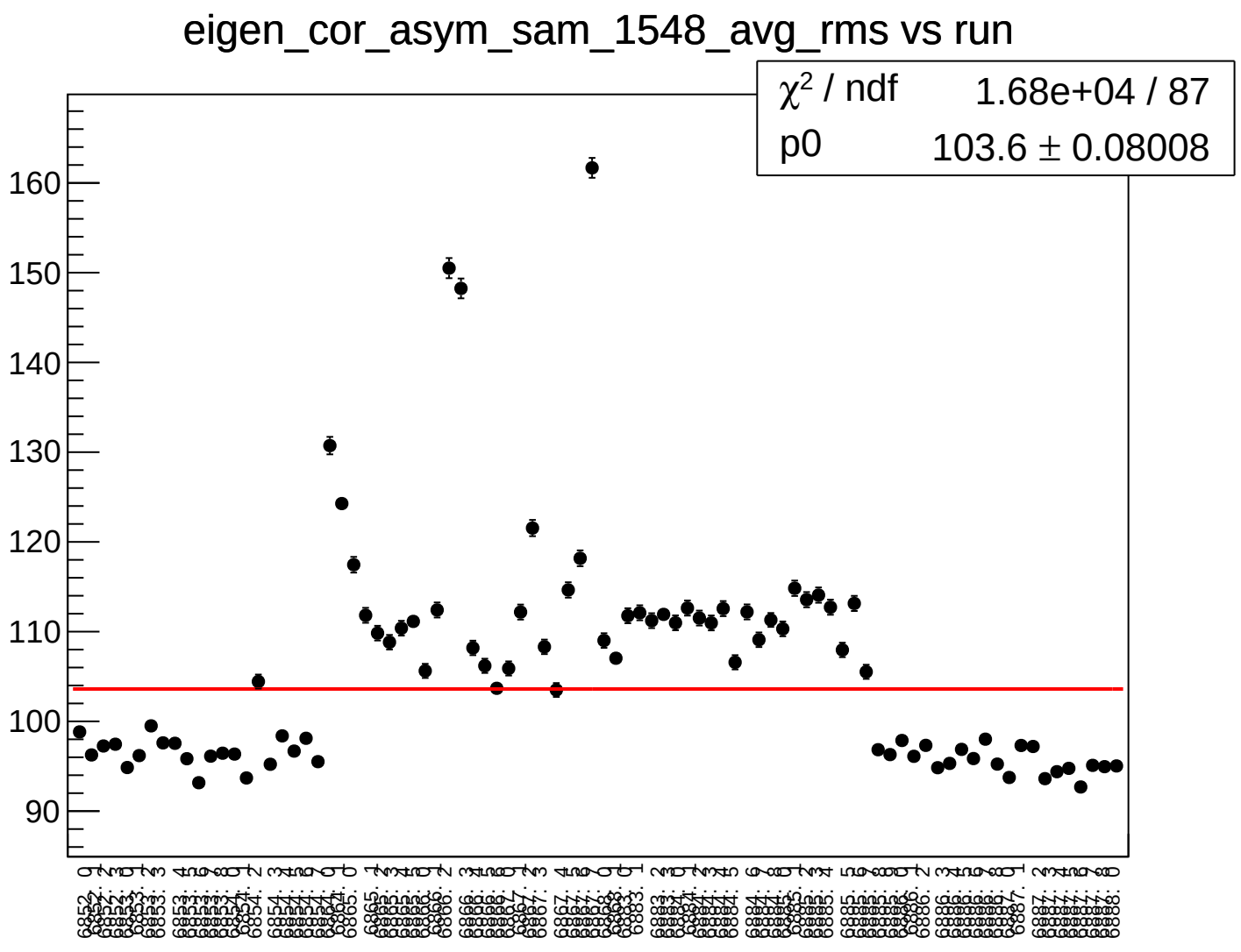

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 97.6 / 87
p0 −1811 ± 869.9
pull
Entries 88
Mean 156.9
Std Dev 0

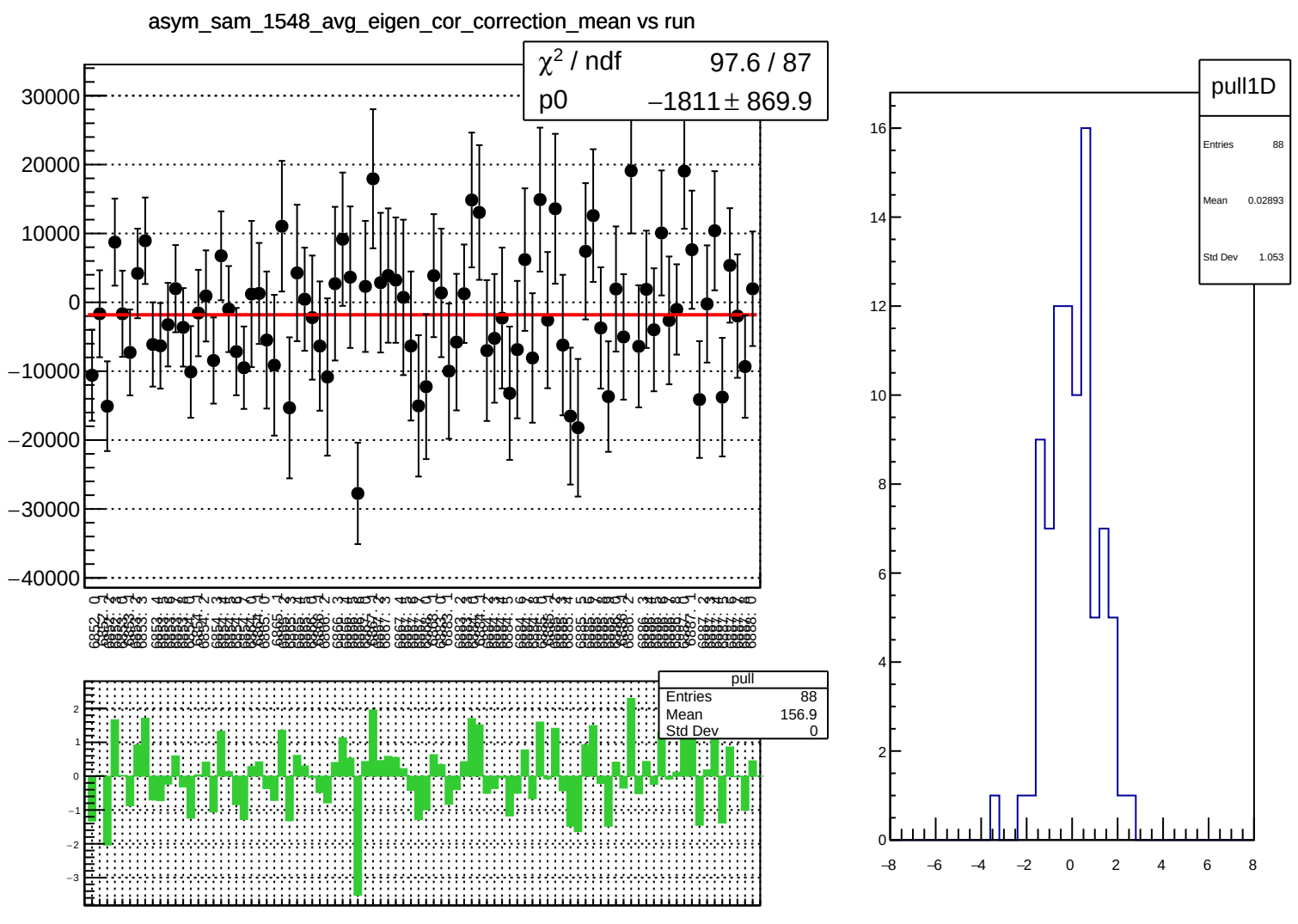

pull1D
Entries 88
Mean 0.02893
Std Dev 1.053

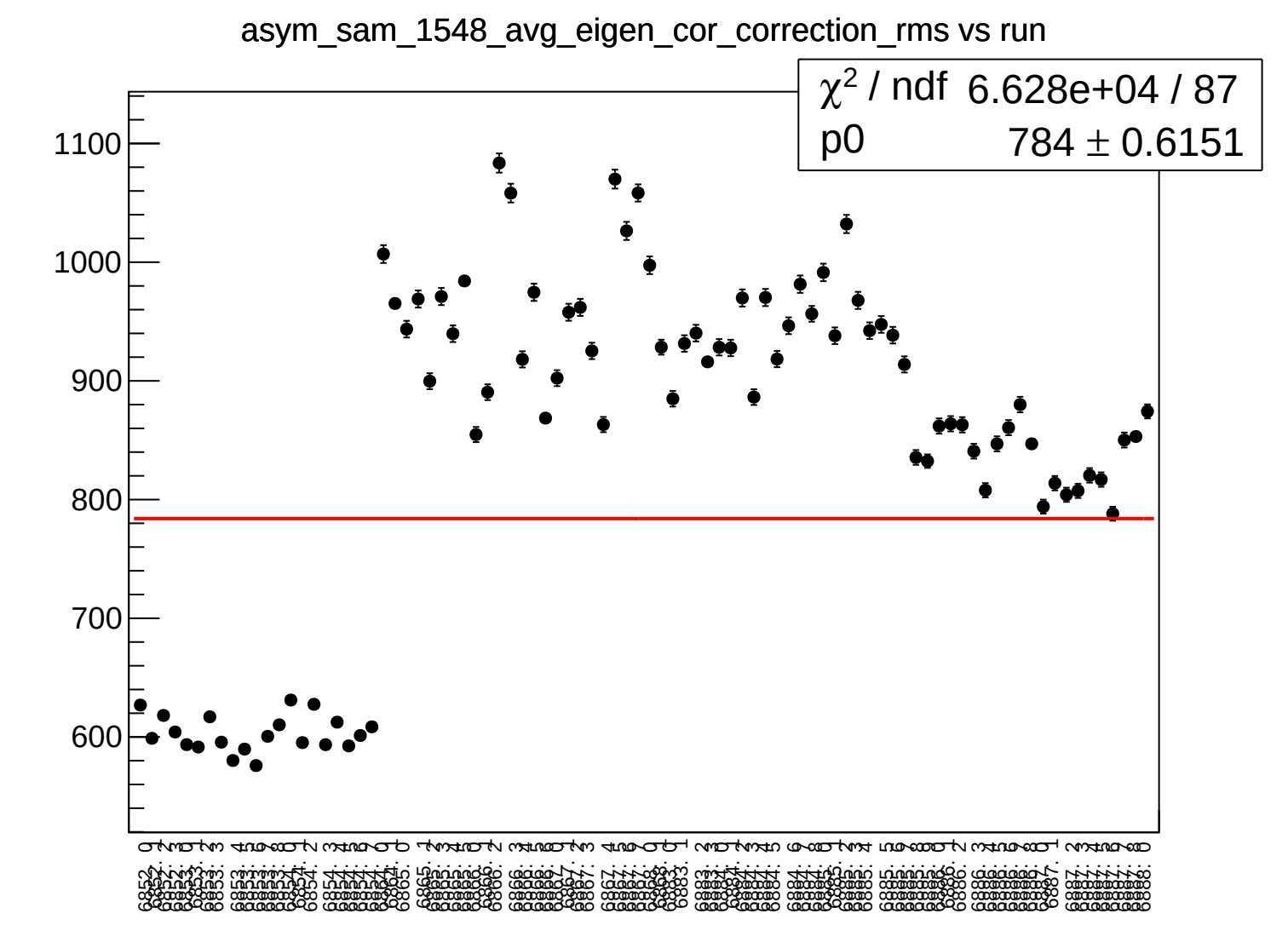

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 6.628e+04 / 87
p0 784 ± 0.6151
1100
1000
900
800
700
600

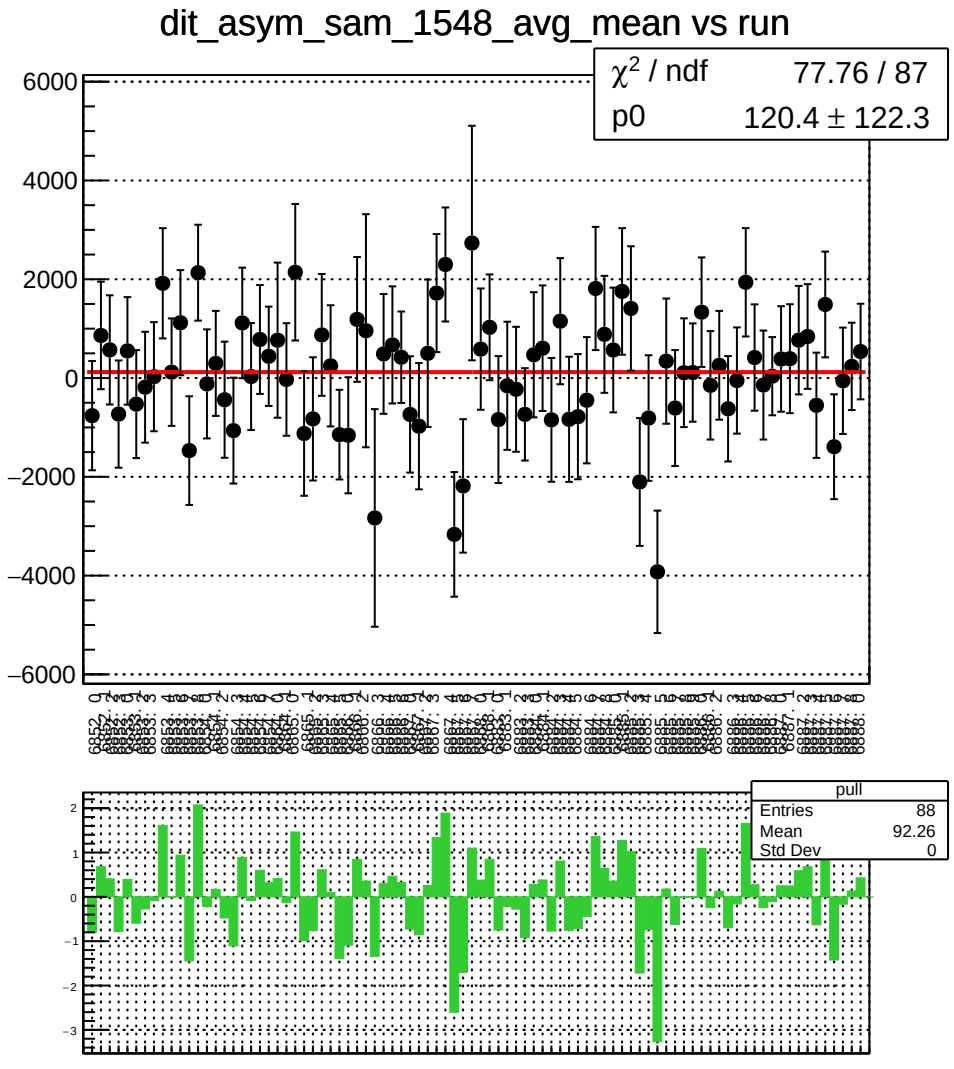

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 85.44 / 87
p0 25.56 ± 113.2
pull
Entries 88
Mean −666
Std Dev 0

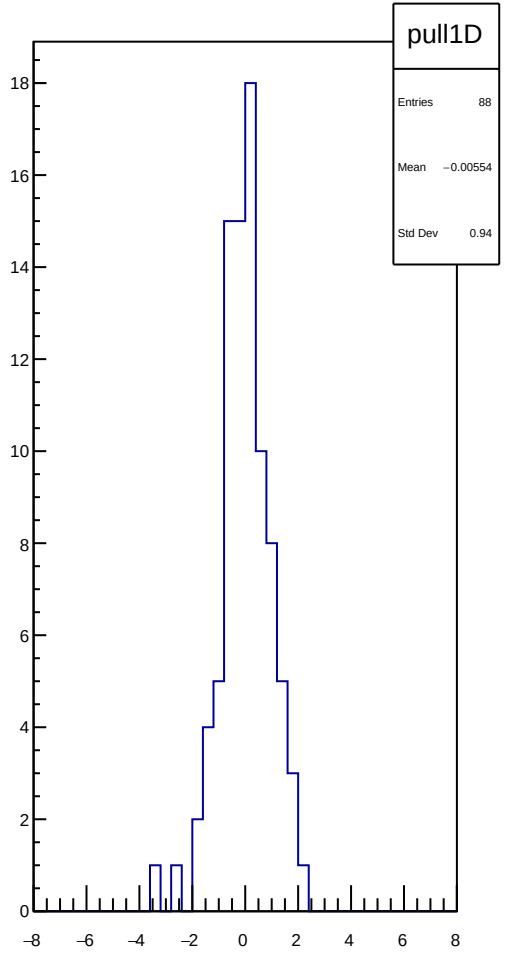

pull1D
Entries 88
Mean 0.0005343
Std Dev 0.9853

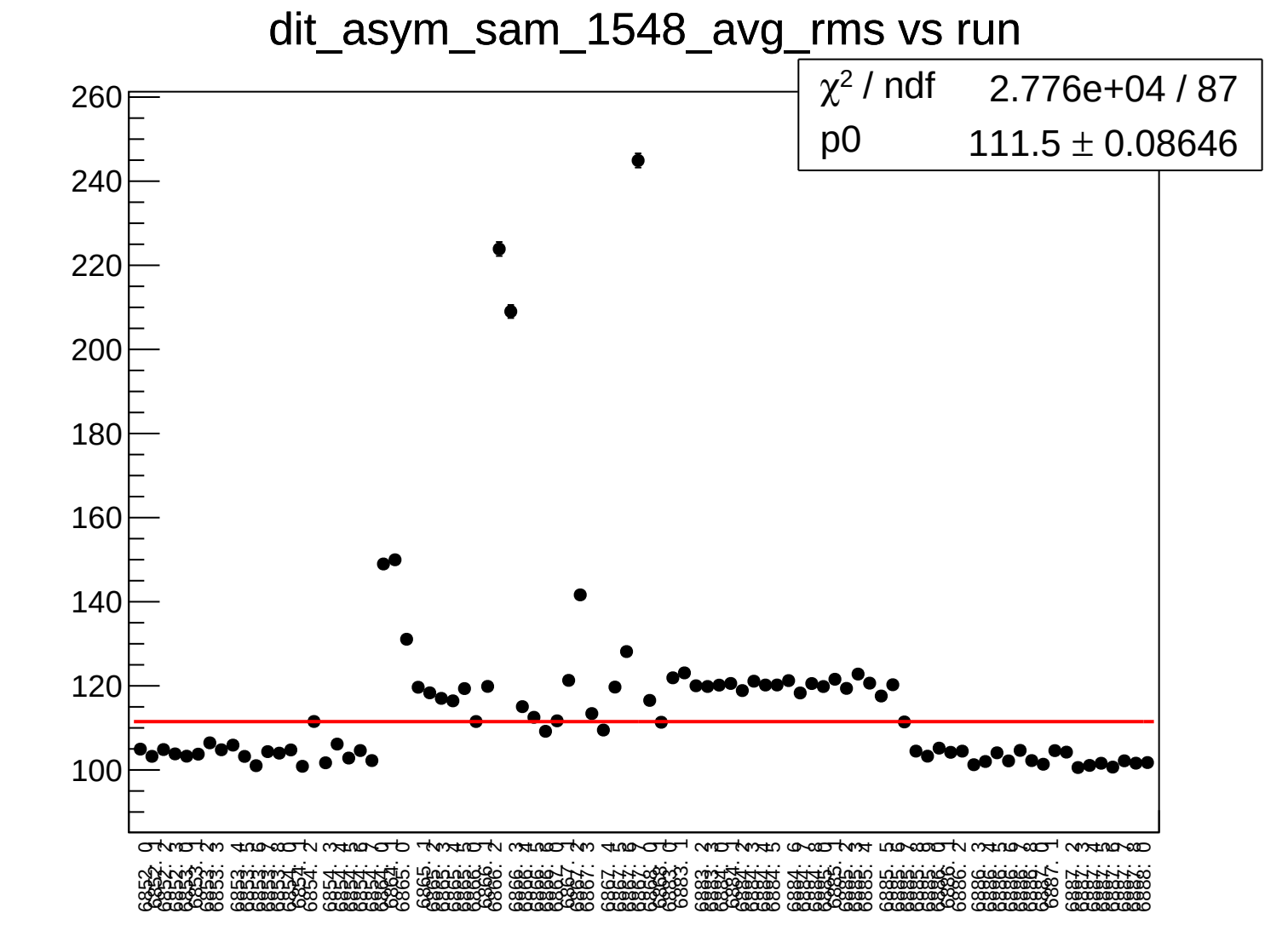

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.68e+04 / 87
p0 103.6 ± 0.08008
160
150
140
130
120
110
100
90

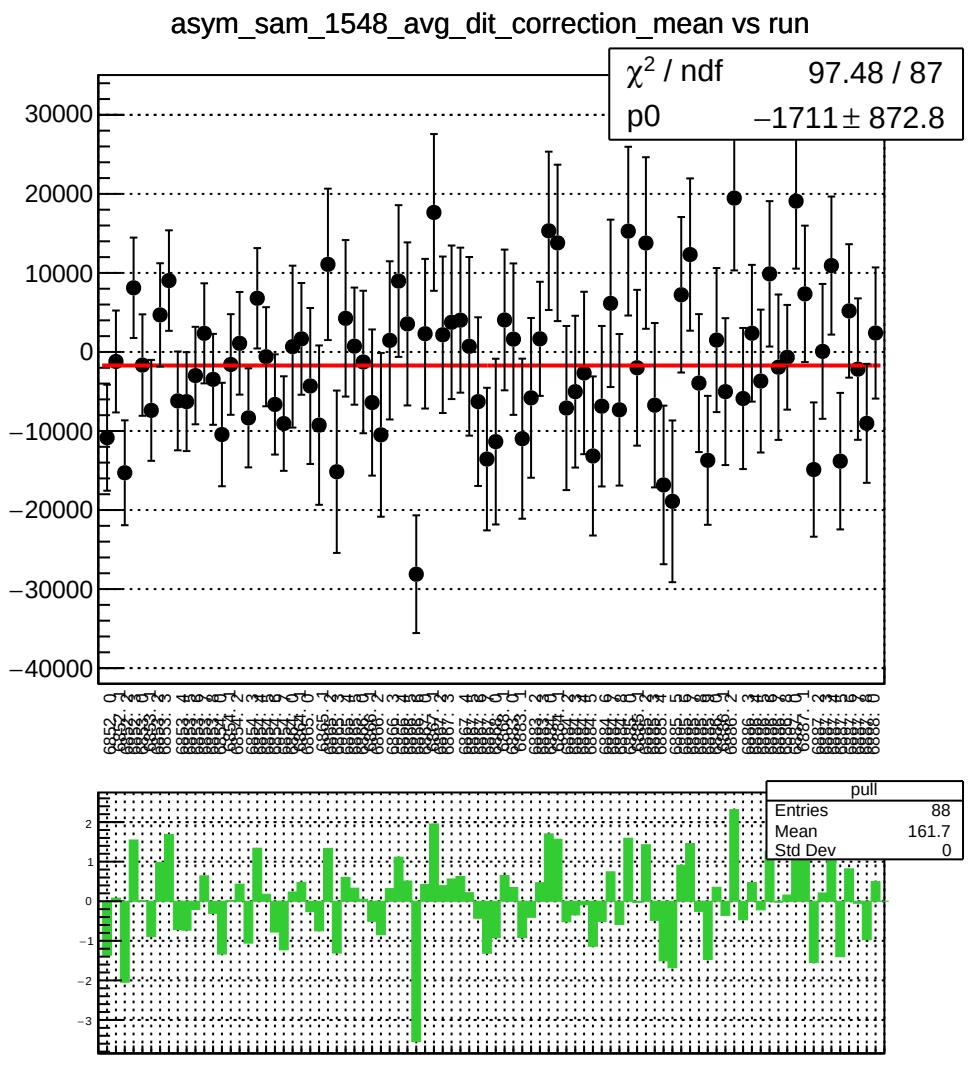

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.6 / 87
p0 −1811 ± 869.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 156.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.02893
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

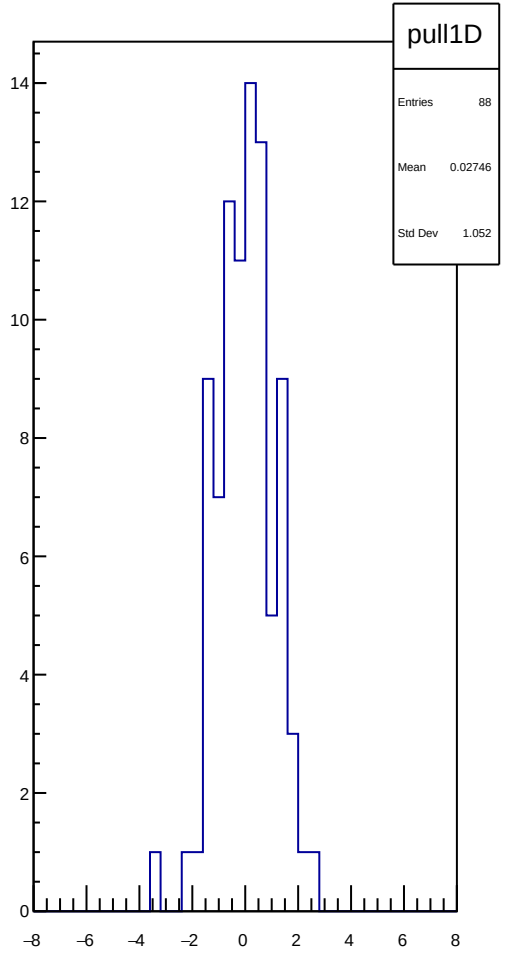

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.628e+04 / 87
p0 784 ± 0.6151
1100
1000
900
800
700
600

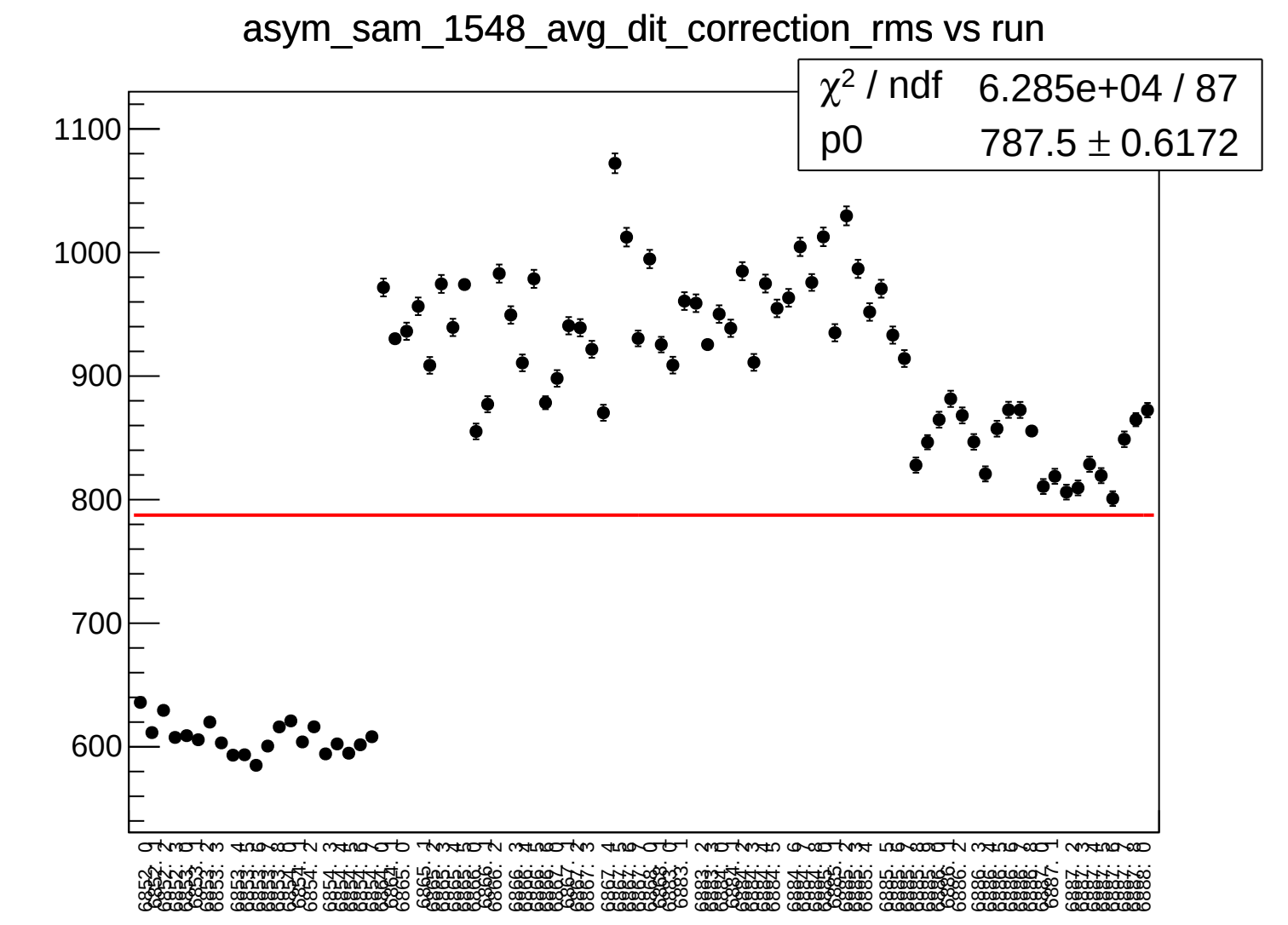

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 77.76 / 87
p0 120.4 ± 122.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 92.26
Std Dev 0
2
1
0
−1
−2
−3

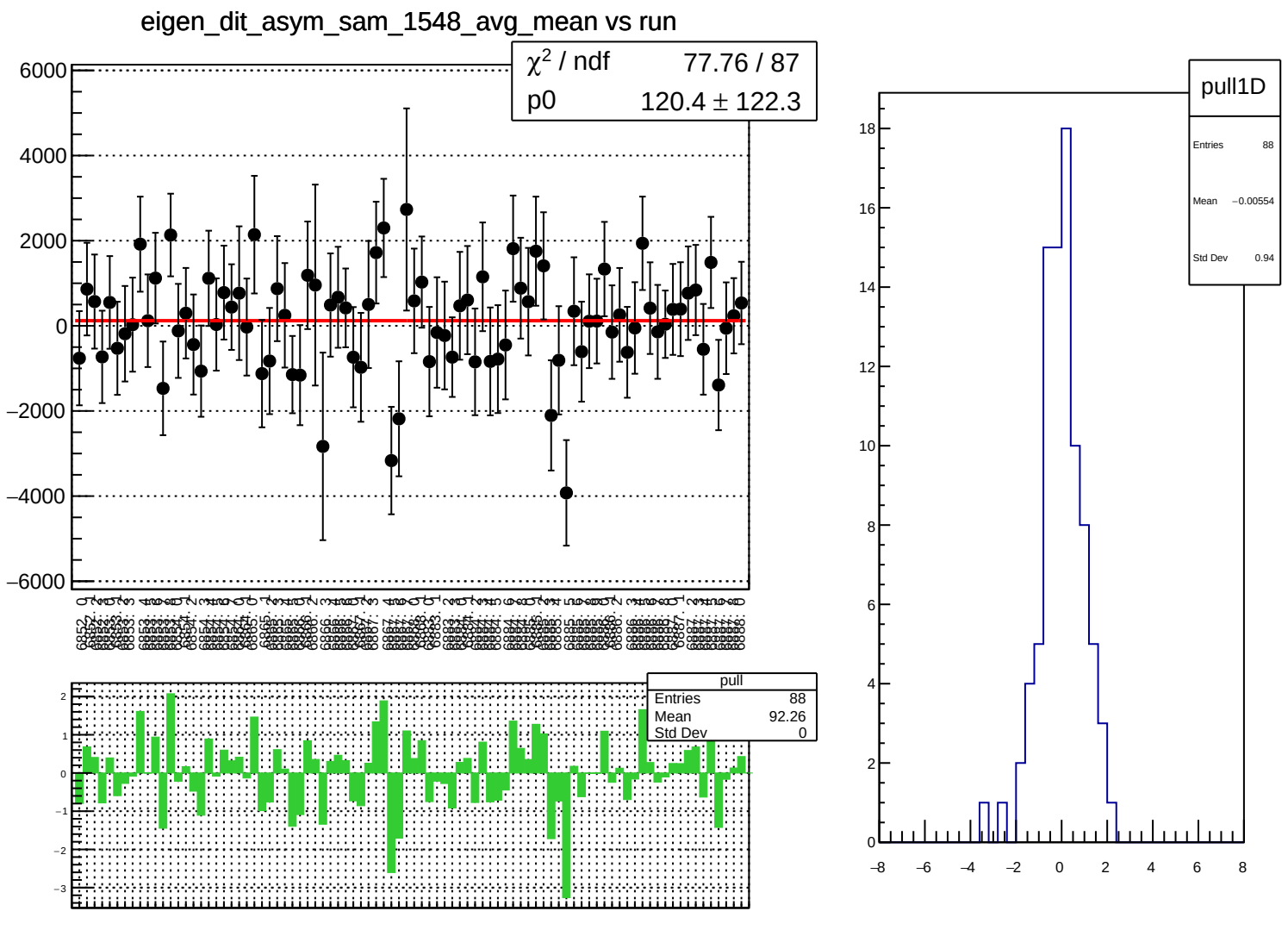

pull1D
Entries 88
Mean −0.00554
Std Dev 0.94
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

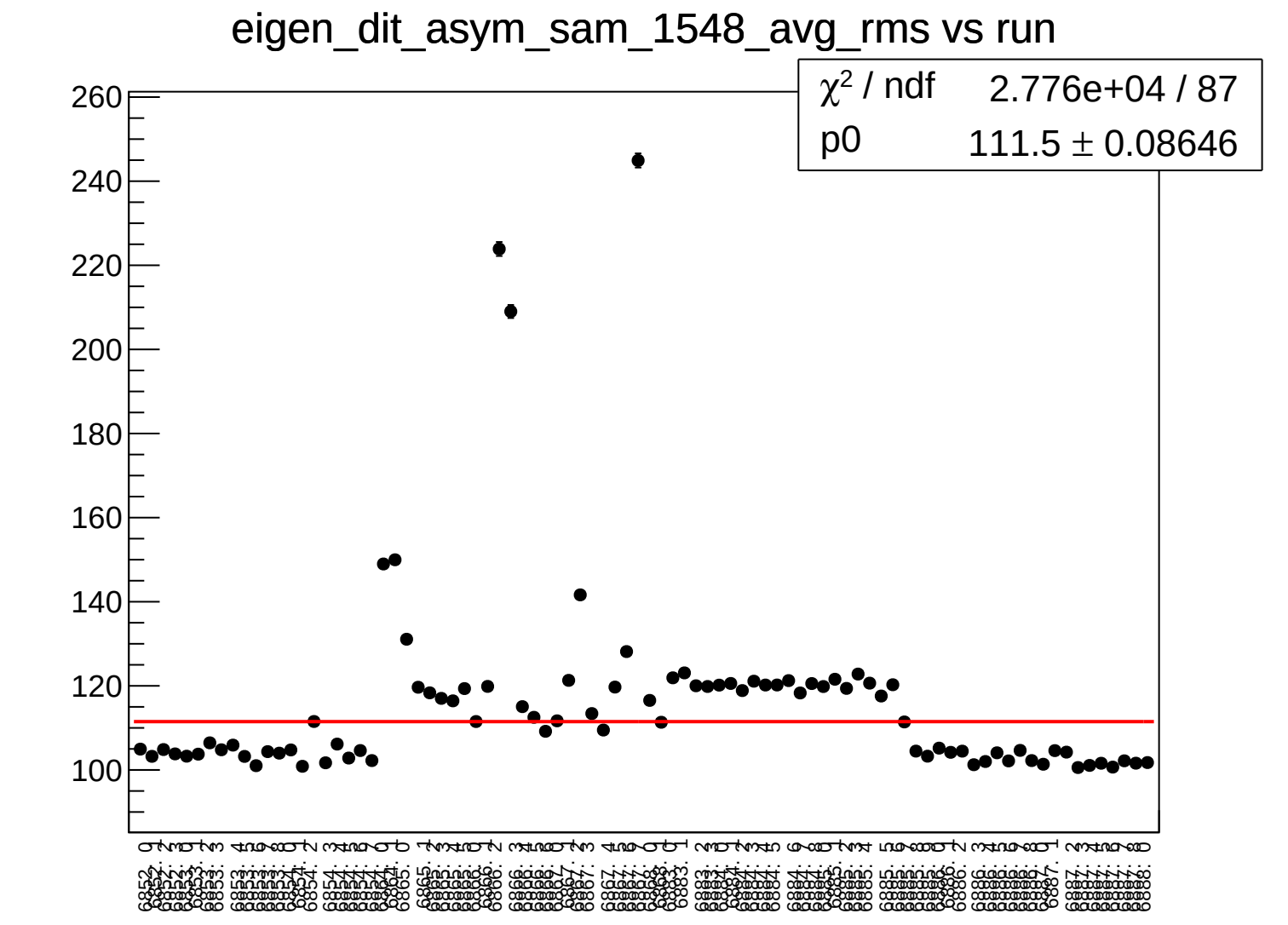

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2.776e+04 / 87
p0 111.5 ± 0.08646
260
240
220
200
180
160
140
120
100

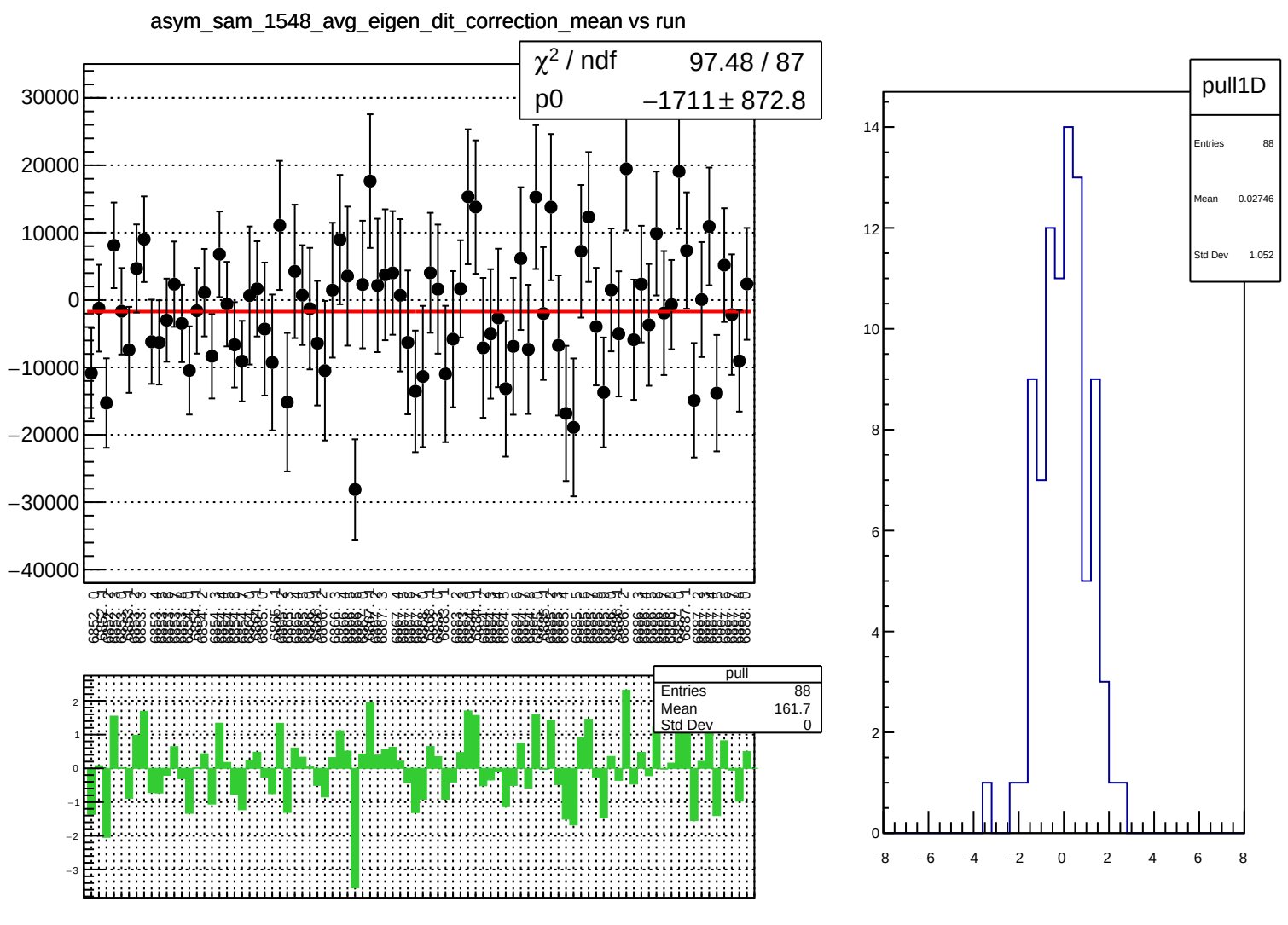

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 97.48 / 87
p0 −1711 ± 872.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 161.7
Std Dev 0
2
1
0
−1
−2
−3

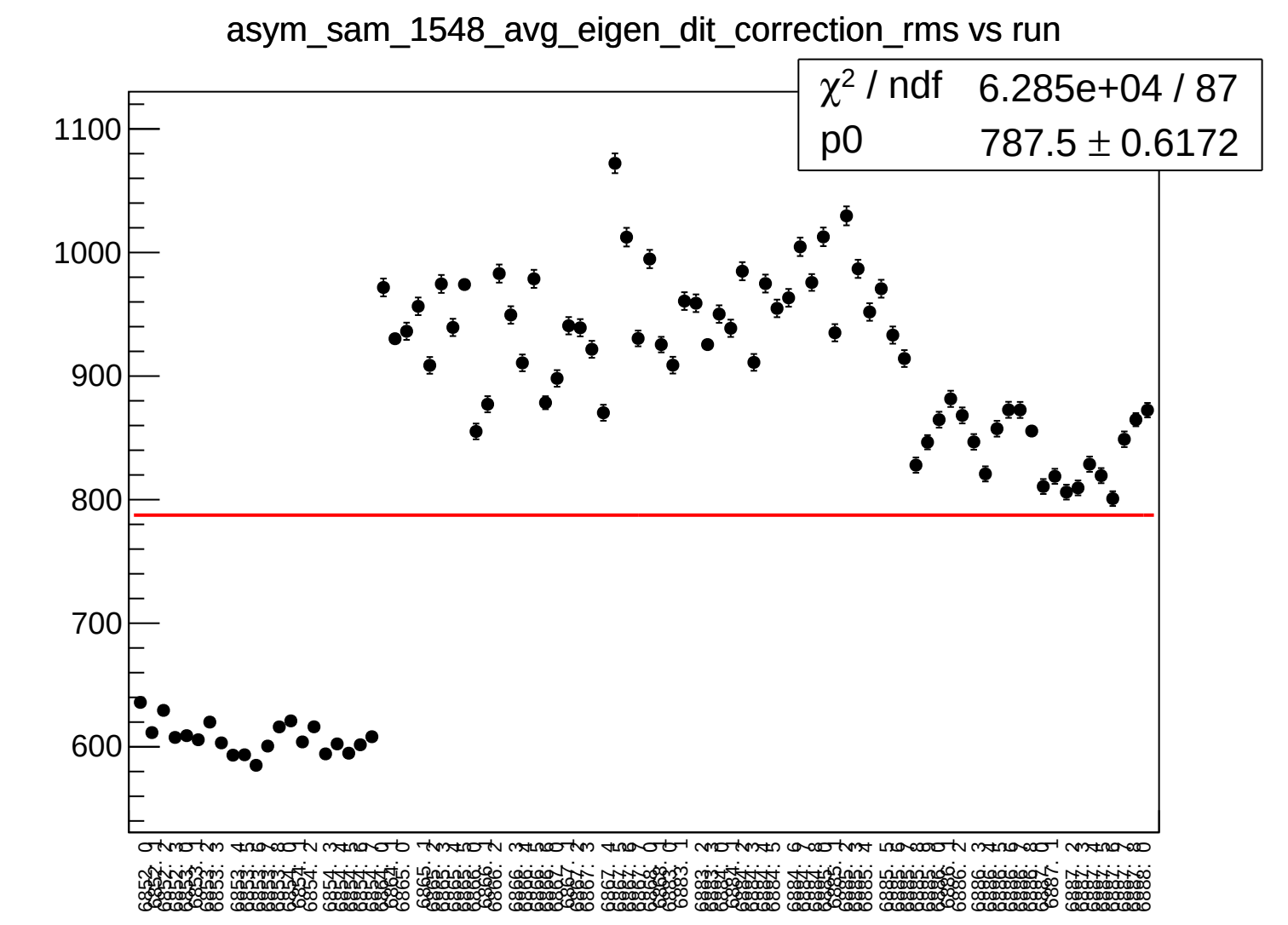

pull1D
Entries 88
Mean 0.02746
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

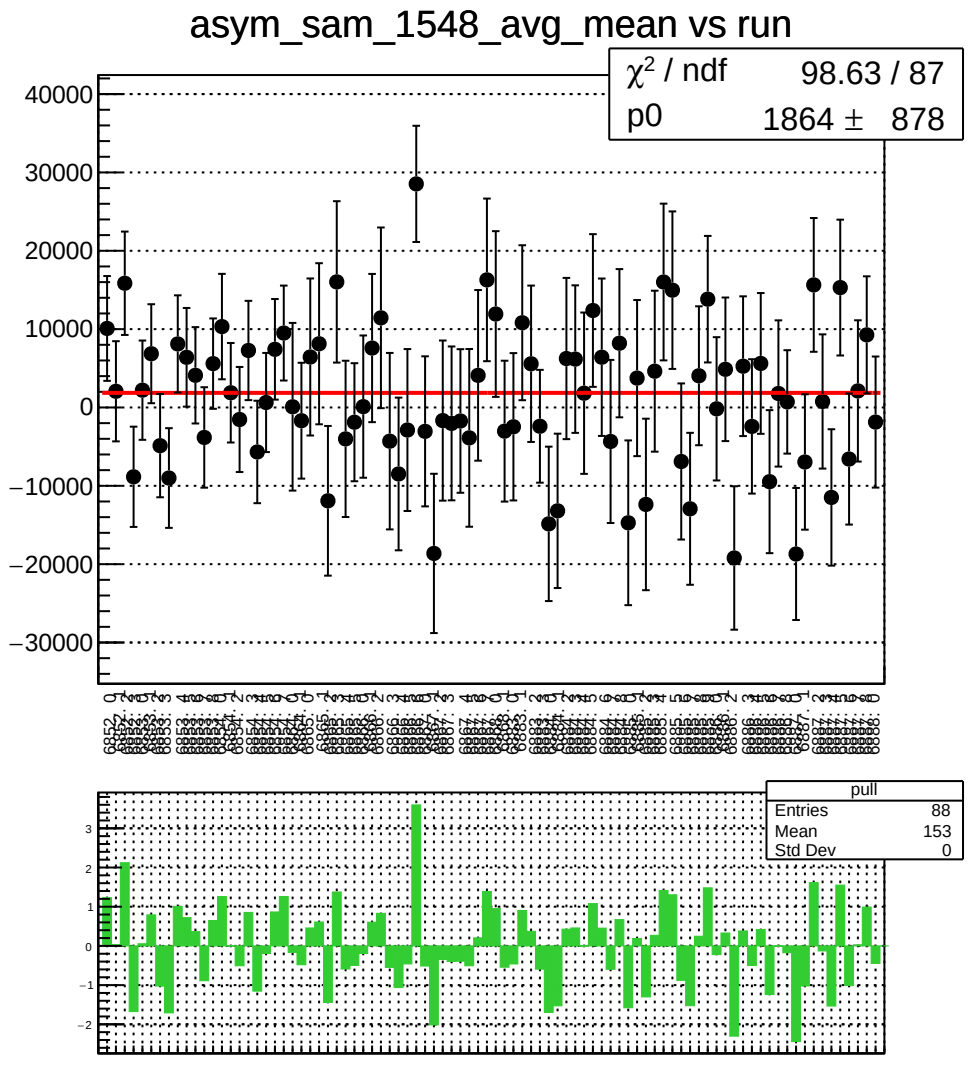

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 6.285e+04 / 87
p0 787.5 ± 0.6172
1100
1000
900
800
700
600

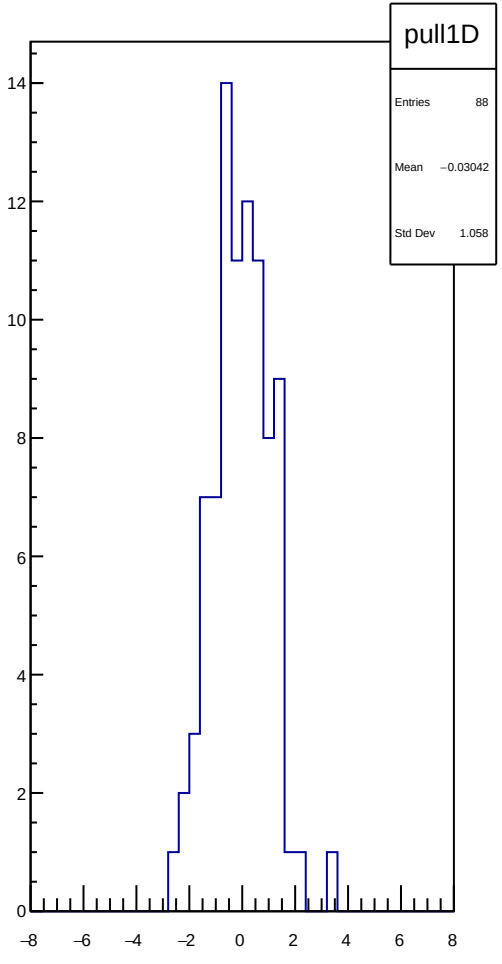

eigen_dit_asym_sam_1548_avg_mean vs run
χ^2 / ndf 77.76 / 87
p0 120.4 ± 122.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 92.26
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.00554
Std Dev 0.94
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

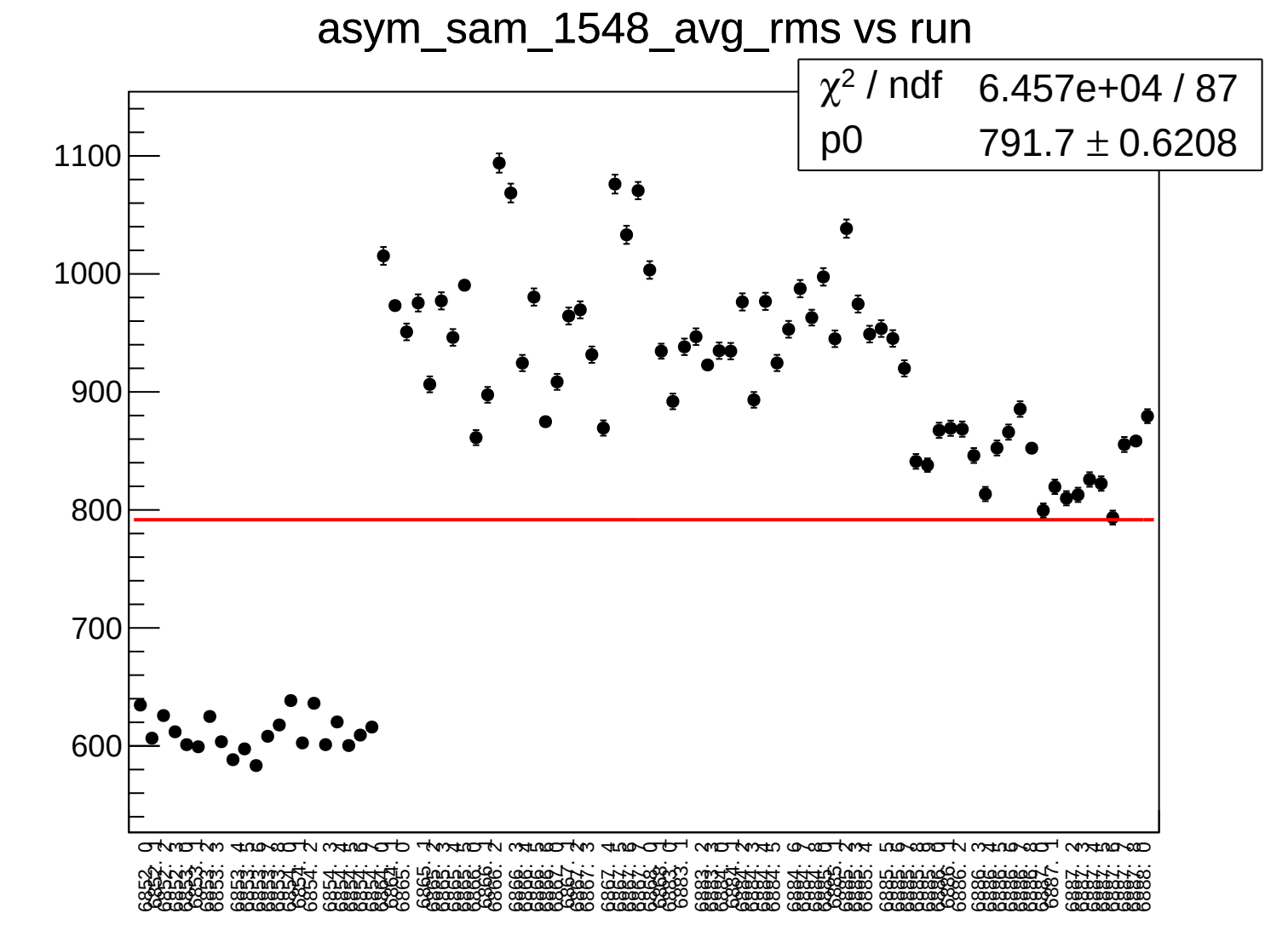

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2.776e+04 / 87
p0 111.5 ± 0.08646
260
240
220
200
180
160
140
120
100

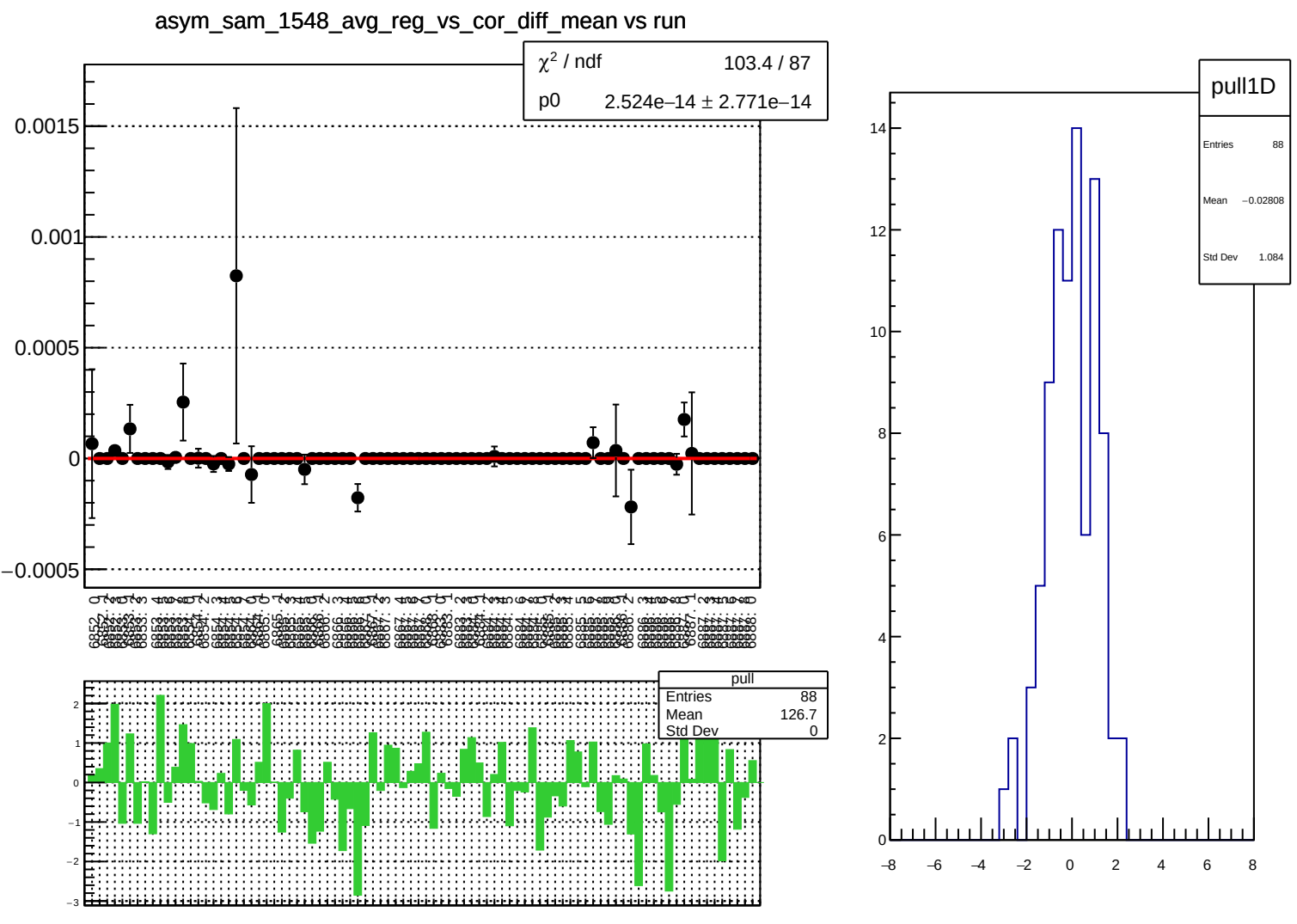

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.48 / 87
p0 −1711 ± 872.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 161.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.02746
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

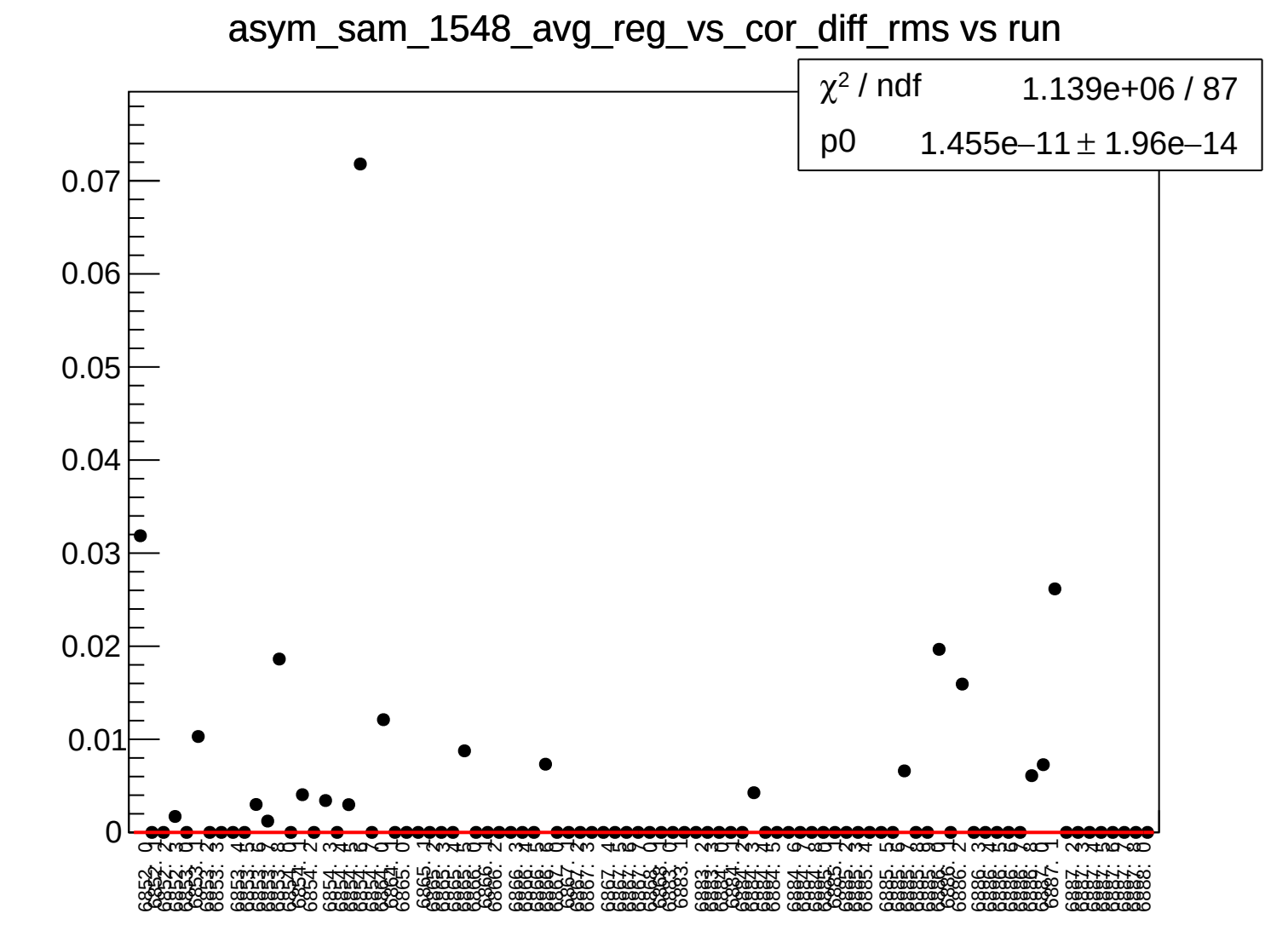

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.285e+04 / 87
p0 787.5 ± 0.6172
1100
1000
900
800
700
600

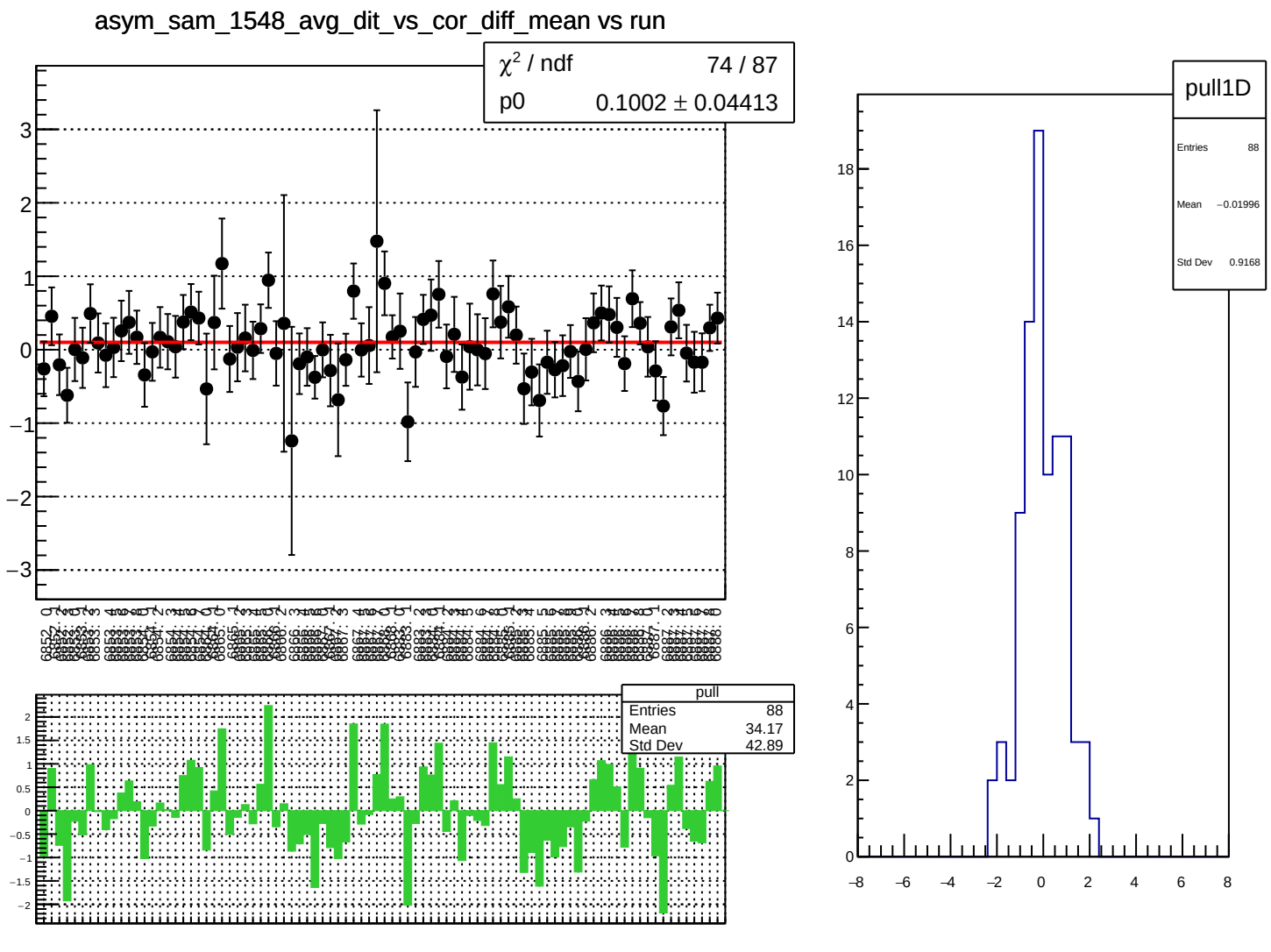

asym_sam_1548_avg_mean vs run
χ² / ndf 98.63 / 87
p0 1864 ± 878
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 153
Std Dev 0
3
2
1
0
−1
−2

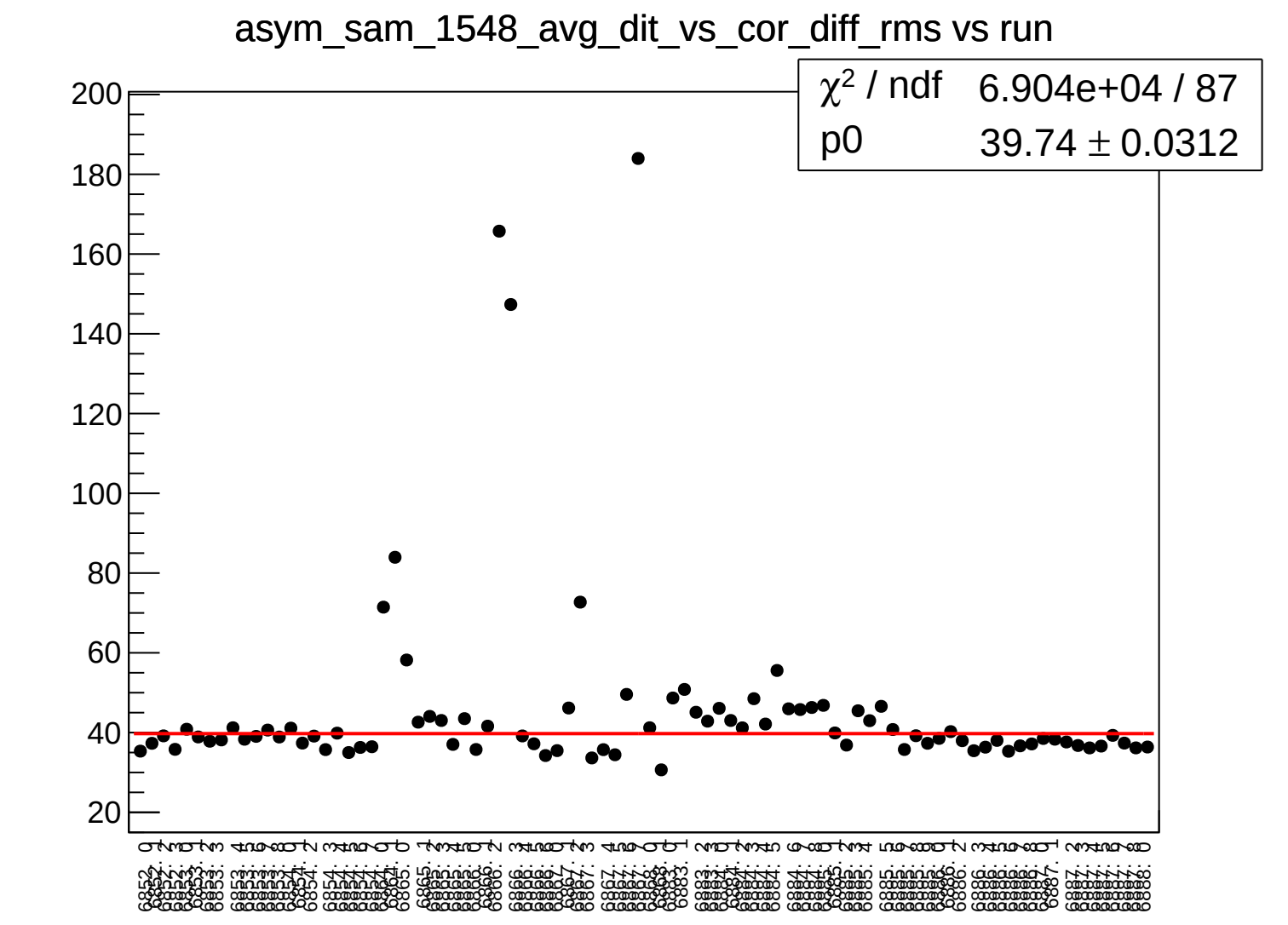

pull1D
Entries 88
Mean −0.03042
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

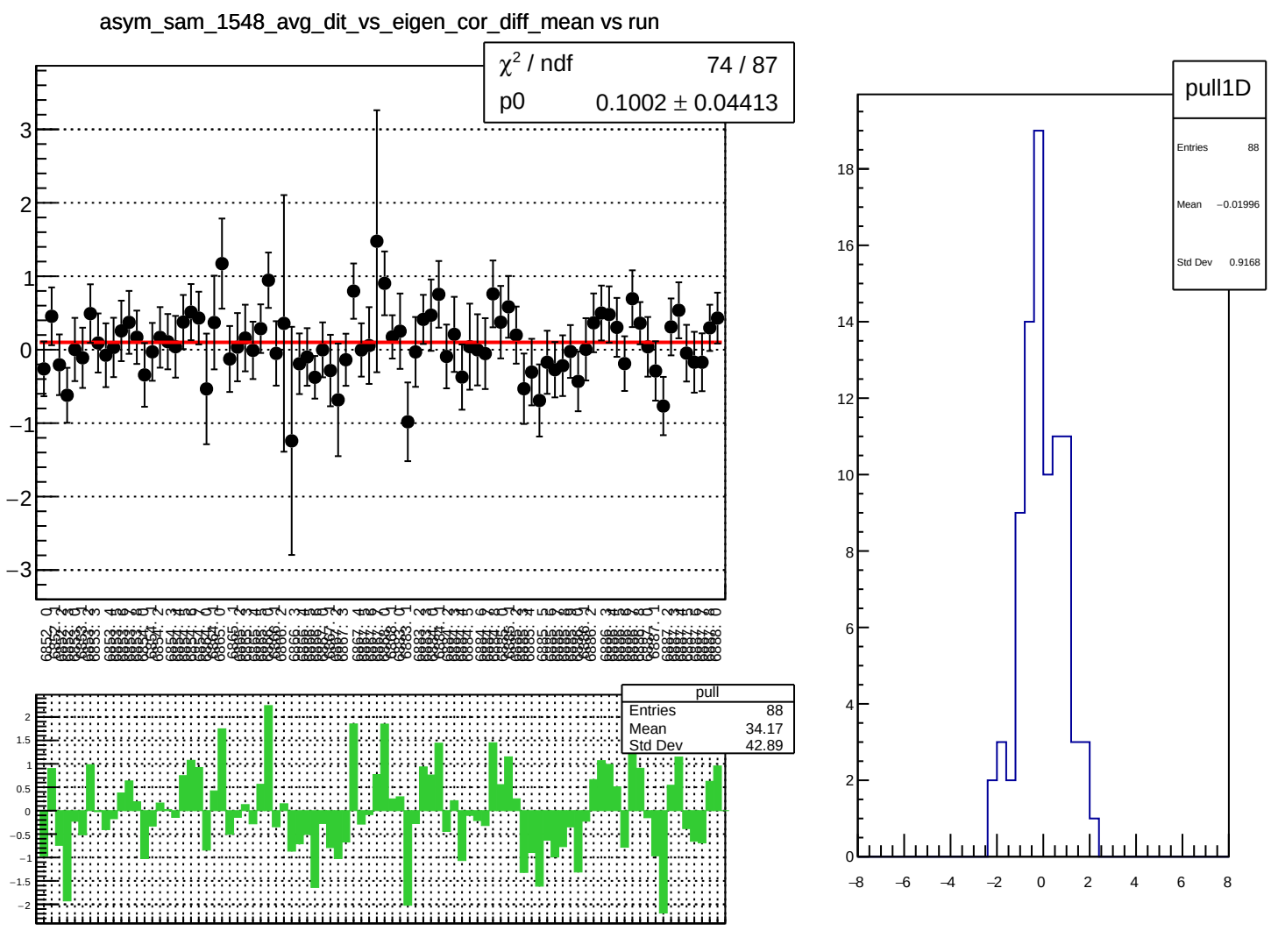

asym_sam_1548_avg_rms vs run
χ² / ndf 6.457e+04 / 87
p0 791.7 ± 0.6208
1100
1000
900
800
700
600

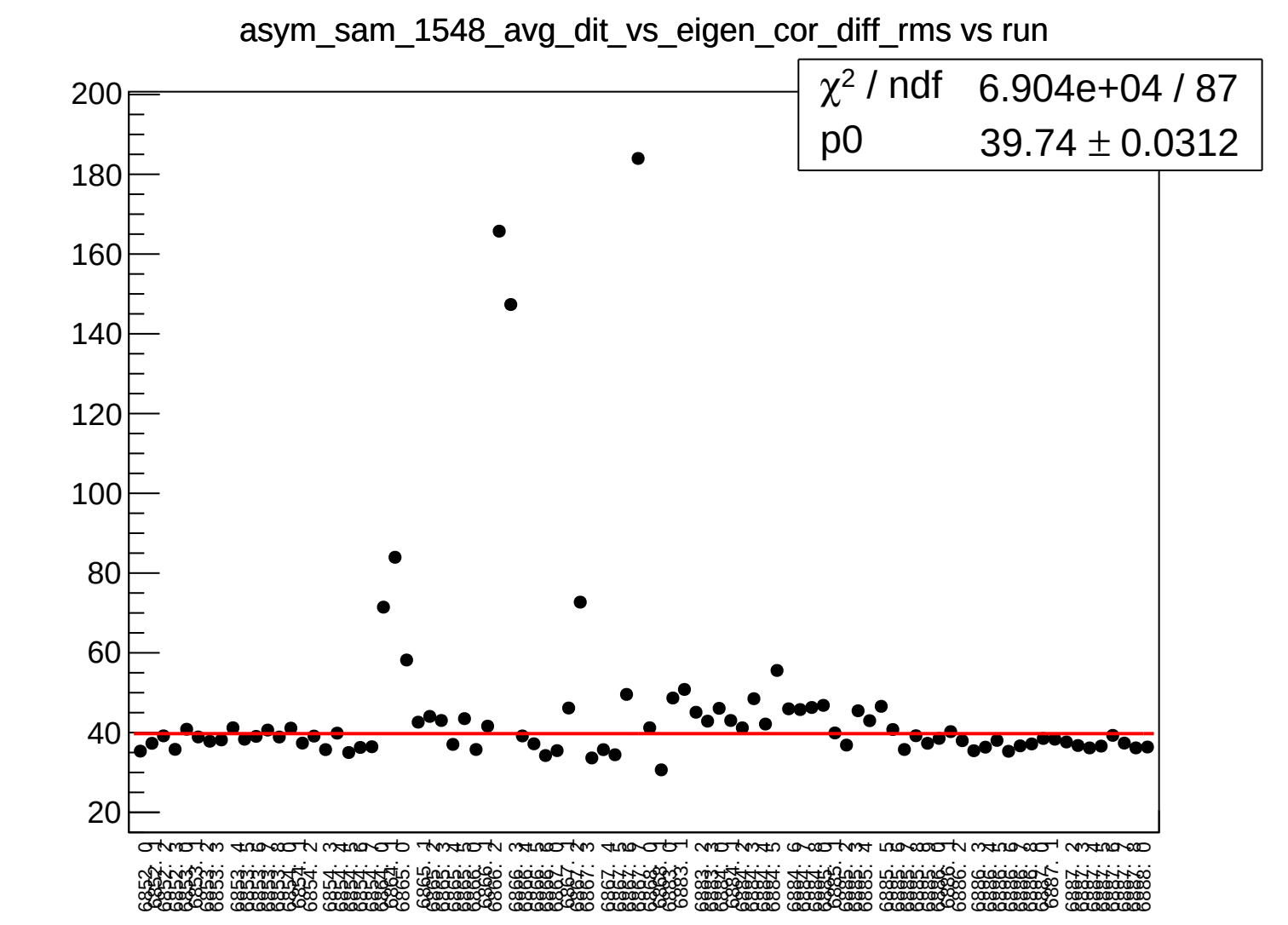

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 87
p0 2.524e−14 ± 2.771e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 88
Mean 126.7
Std Dev 0
pull1D
Entries 88
Mean −0.02808
Std Dev 1.084

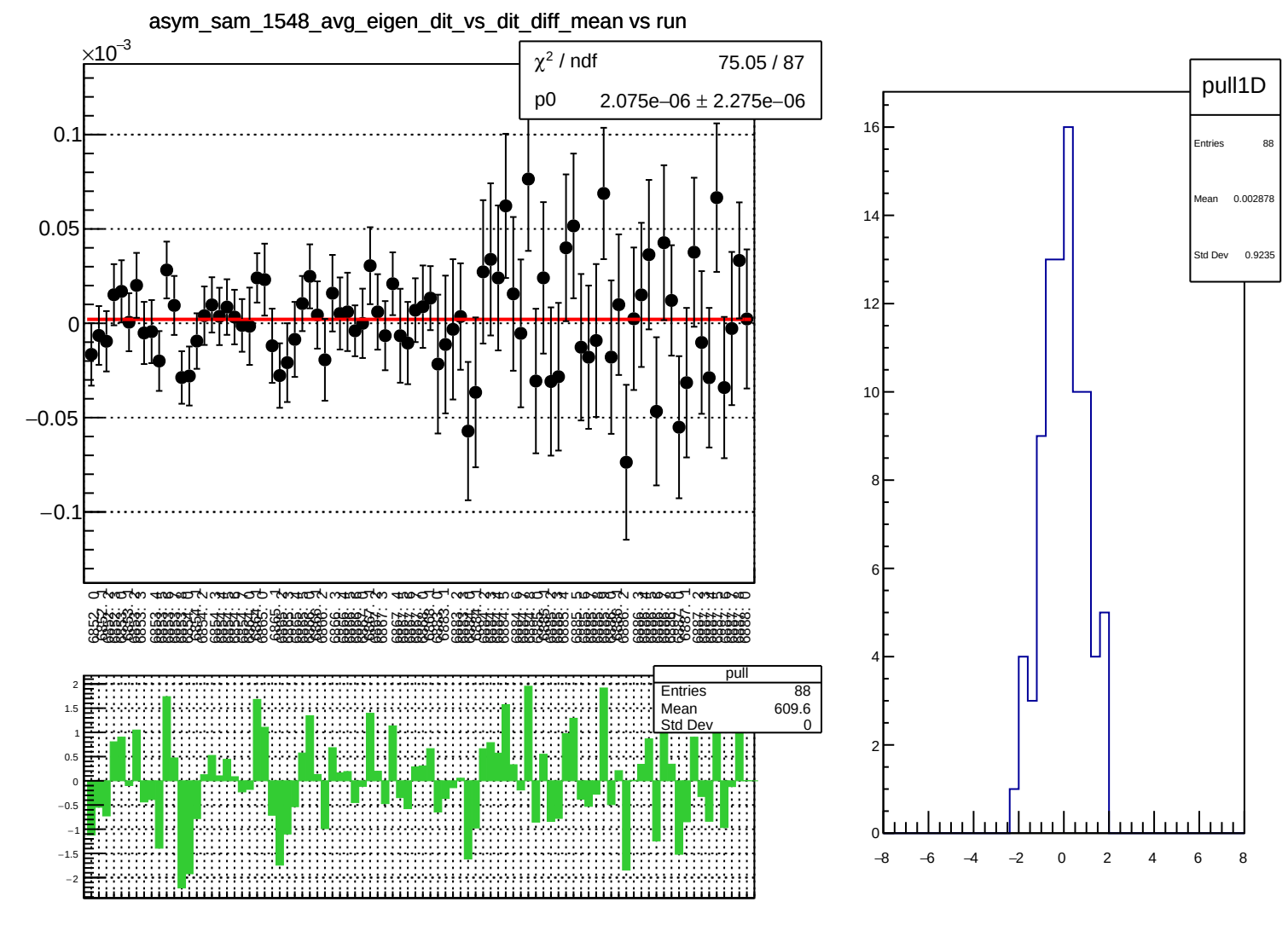

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.139e+06 / 87
p0 1.455e−11 ± 1.96e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

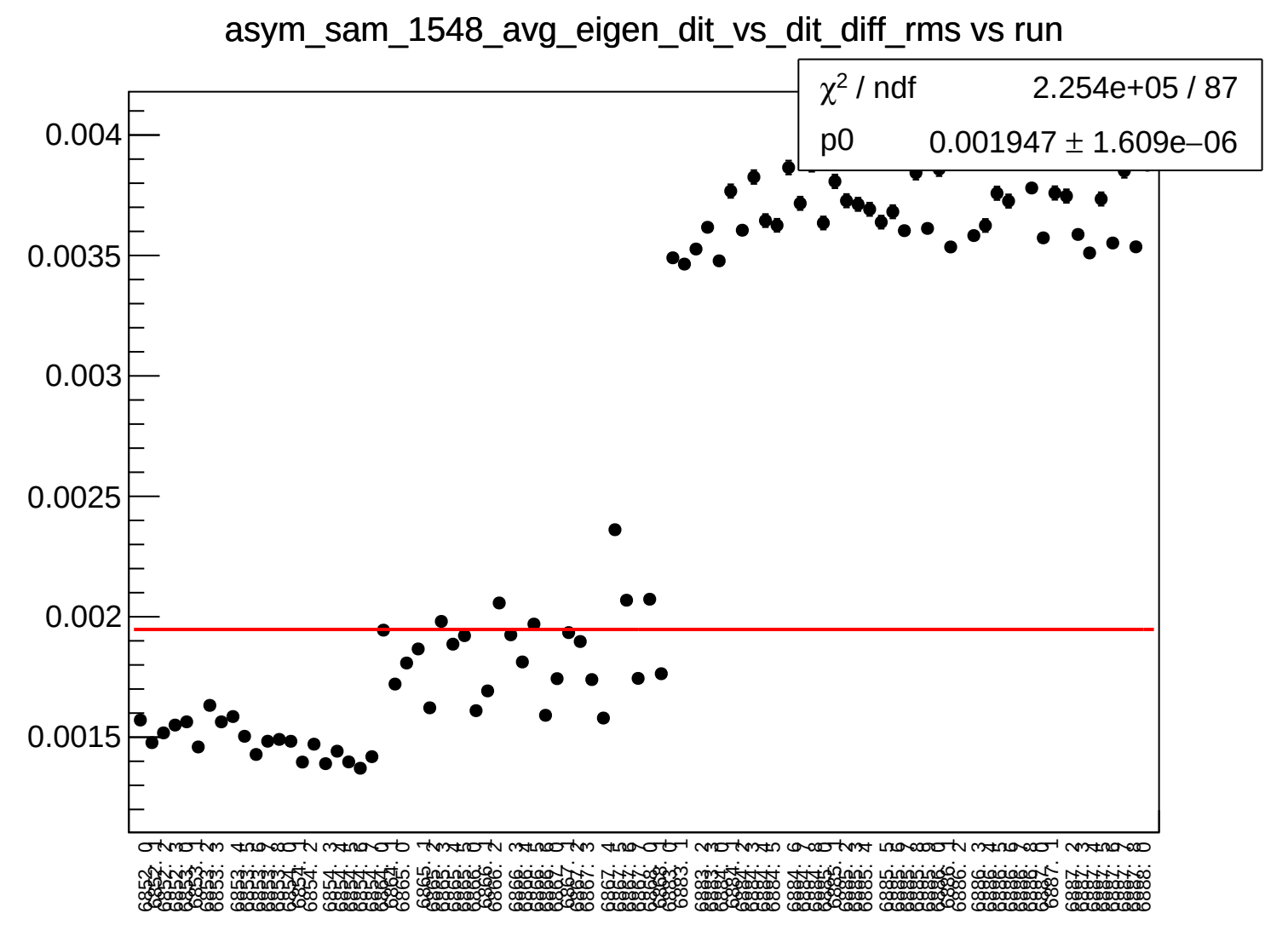

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74 / 87
p0 0.1002 ± 0.04413
pull
Entries 88
Mean 34.17
Std Dev 42.89
pull1D
Entries 88
Mean −0.01996
Std Dev 0.9168

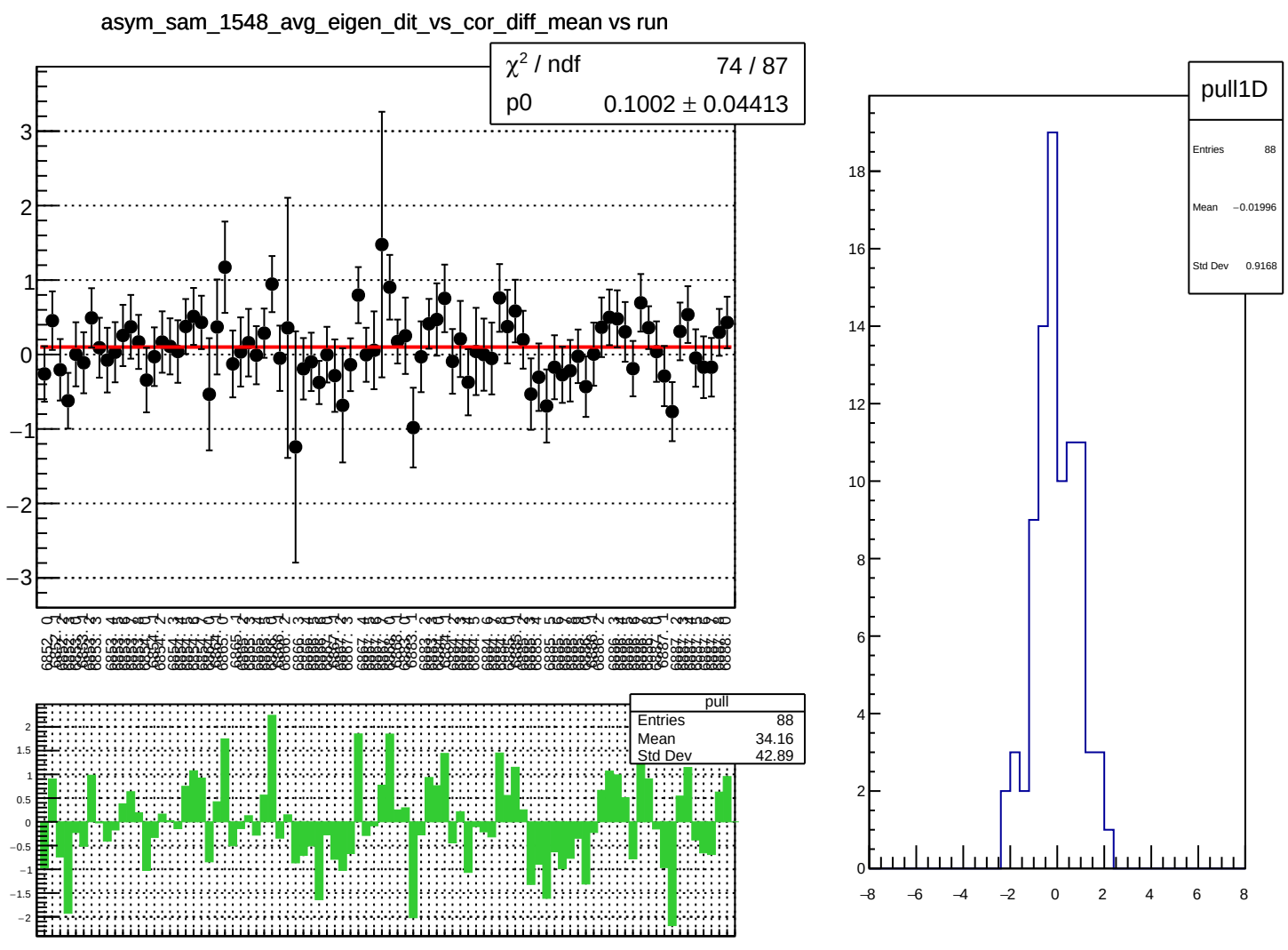

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.904e+04 / 87
p0 39.74 ± 0.0312
200
180
160
140
120
100
80
60
40
20

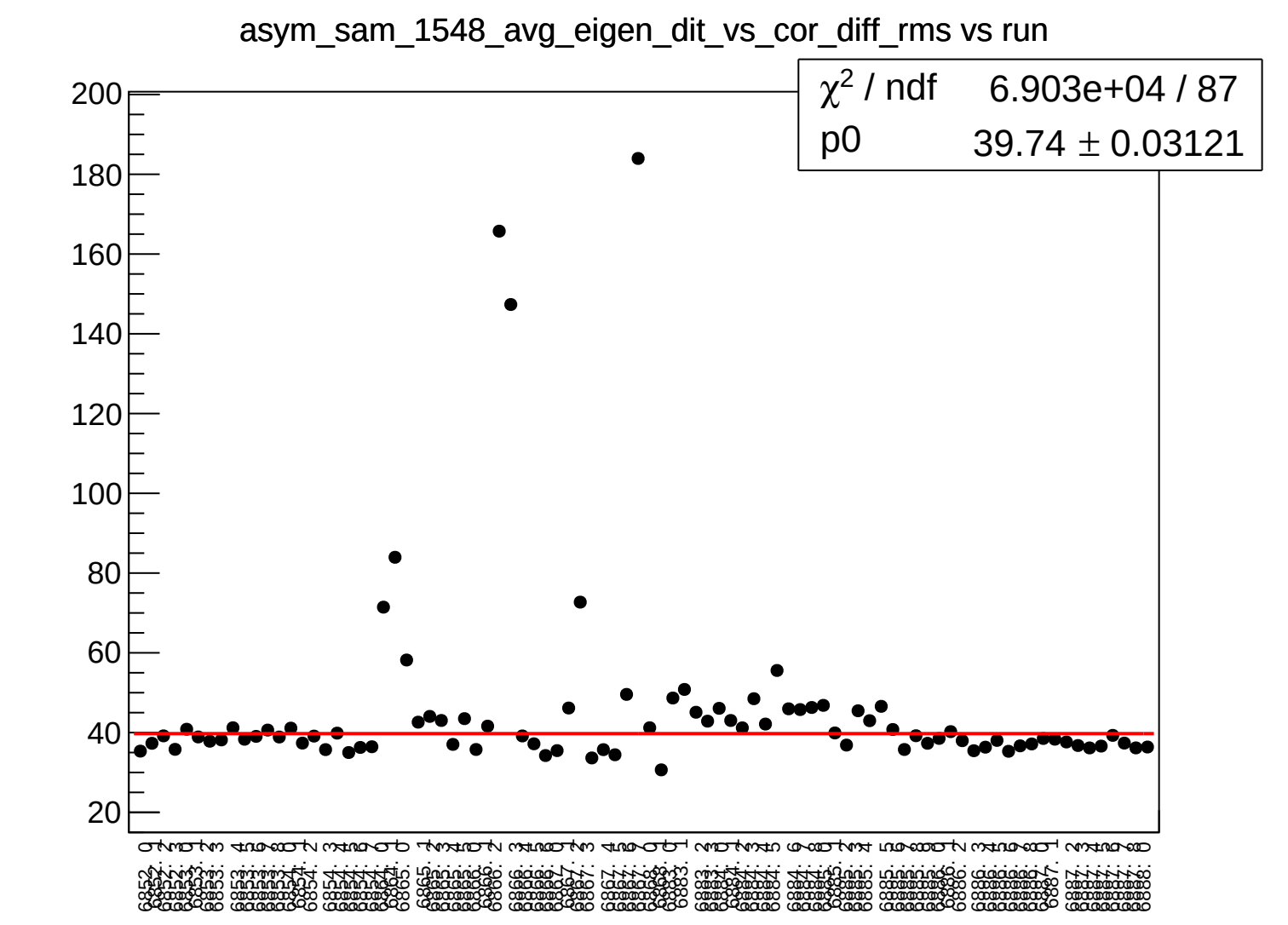

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74 / 87
p0 0.1002 ± 0.04413
pull
Entries 88
Mean 34.17
Std Dev 42.89
pull1D
Entries 88
Mean −0.01996
Std Dev 0.9168

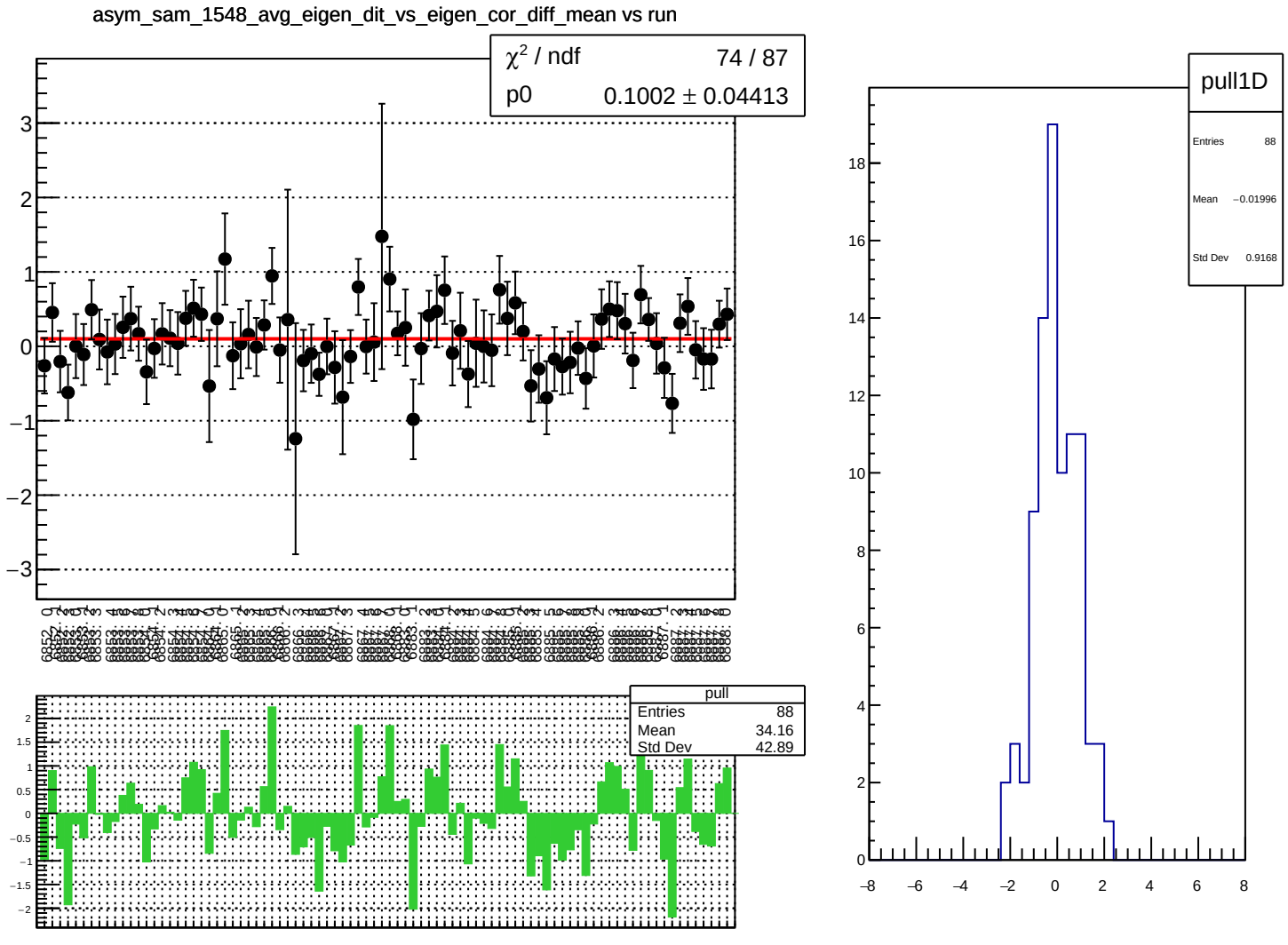

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.904e+04 / 87
p0 39.74 ± 0.0312
200
180
160
140
120
100
80
60
40
20

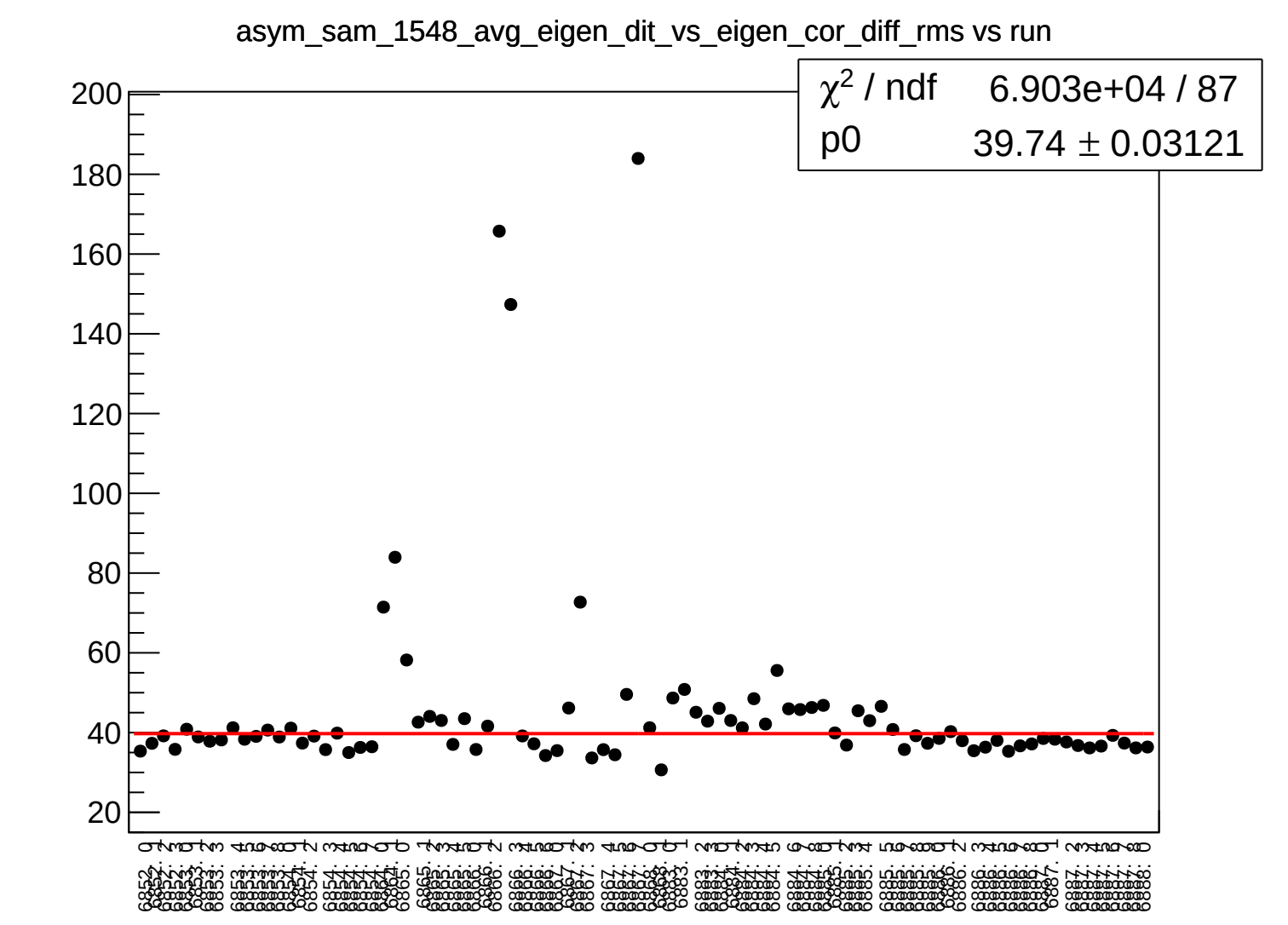

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.05 / 87
p0 2.075e−06 ± 2.275e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 609.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.002878
Std Dev 0.9235
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

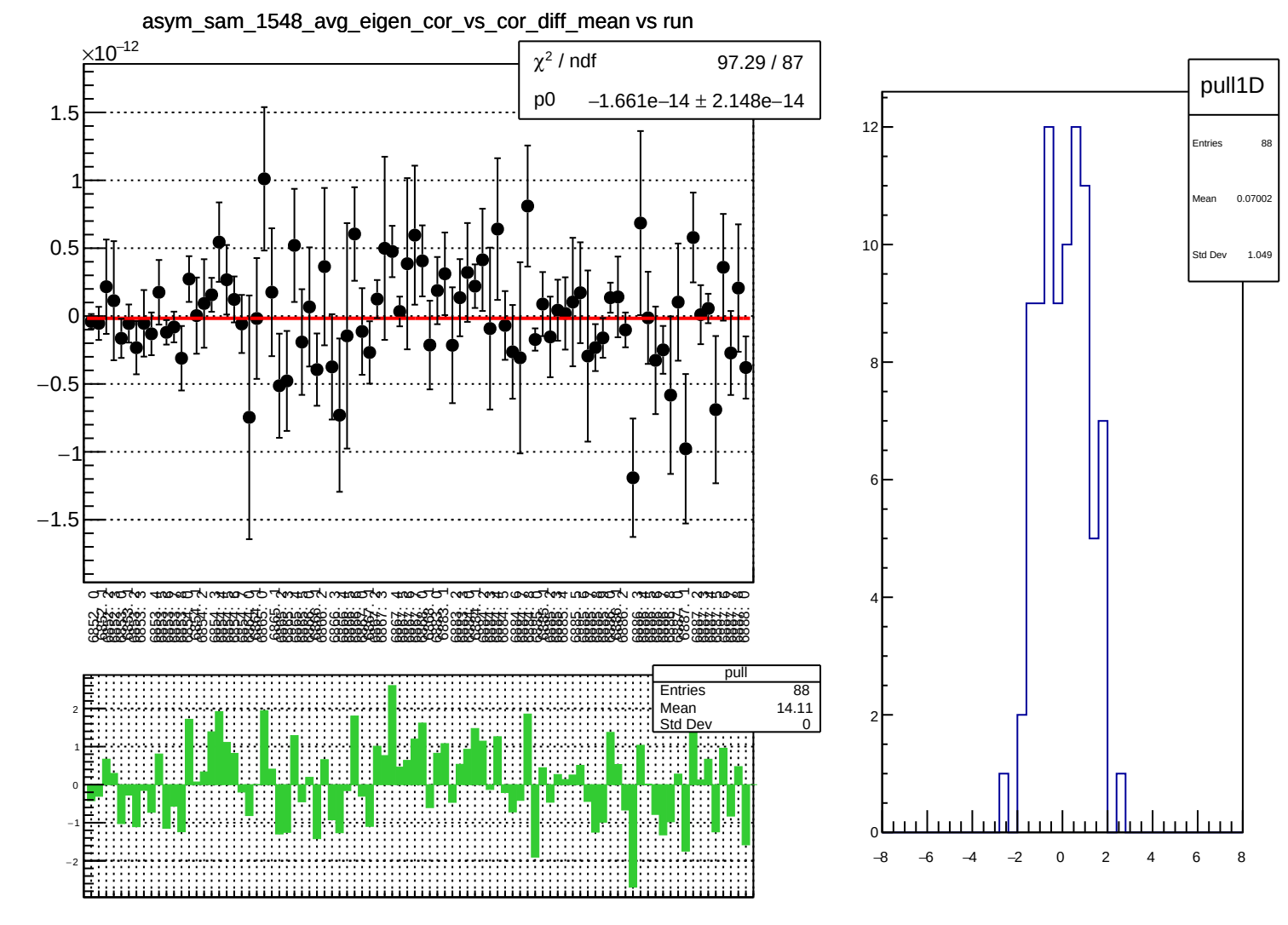

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.254e+05 / 87
p0 0.001947 ± 1.609e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

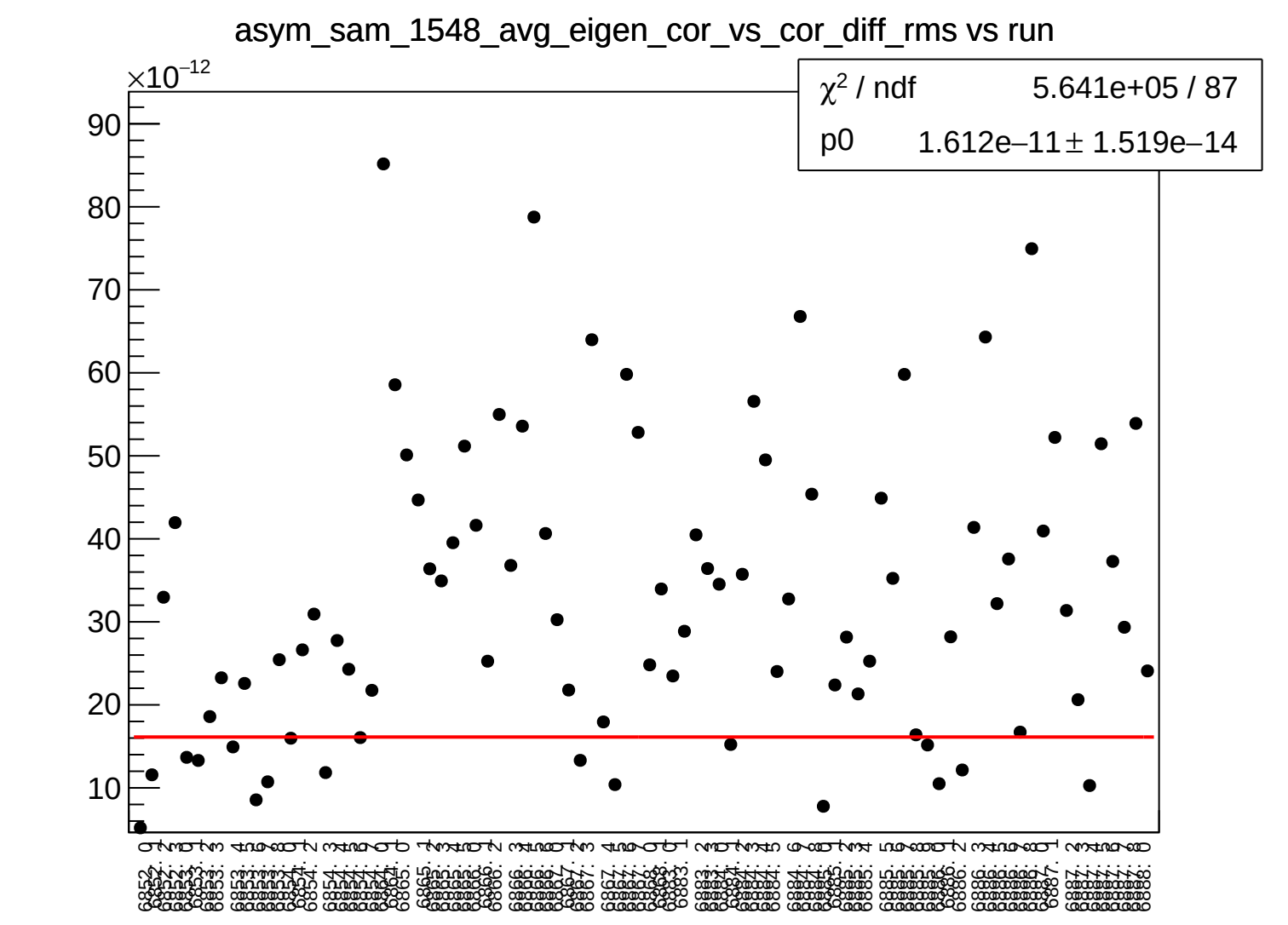

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74 / 87
p0 0.1002 ± 0.04413
pull
Entries 88
Mean 34.16
Std Dev 42.89
pull1D
Entries 88
Mean −0.01996
Std Dev 0.9168

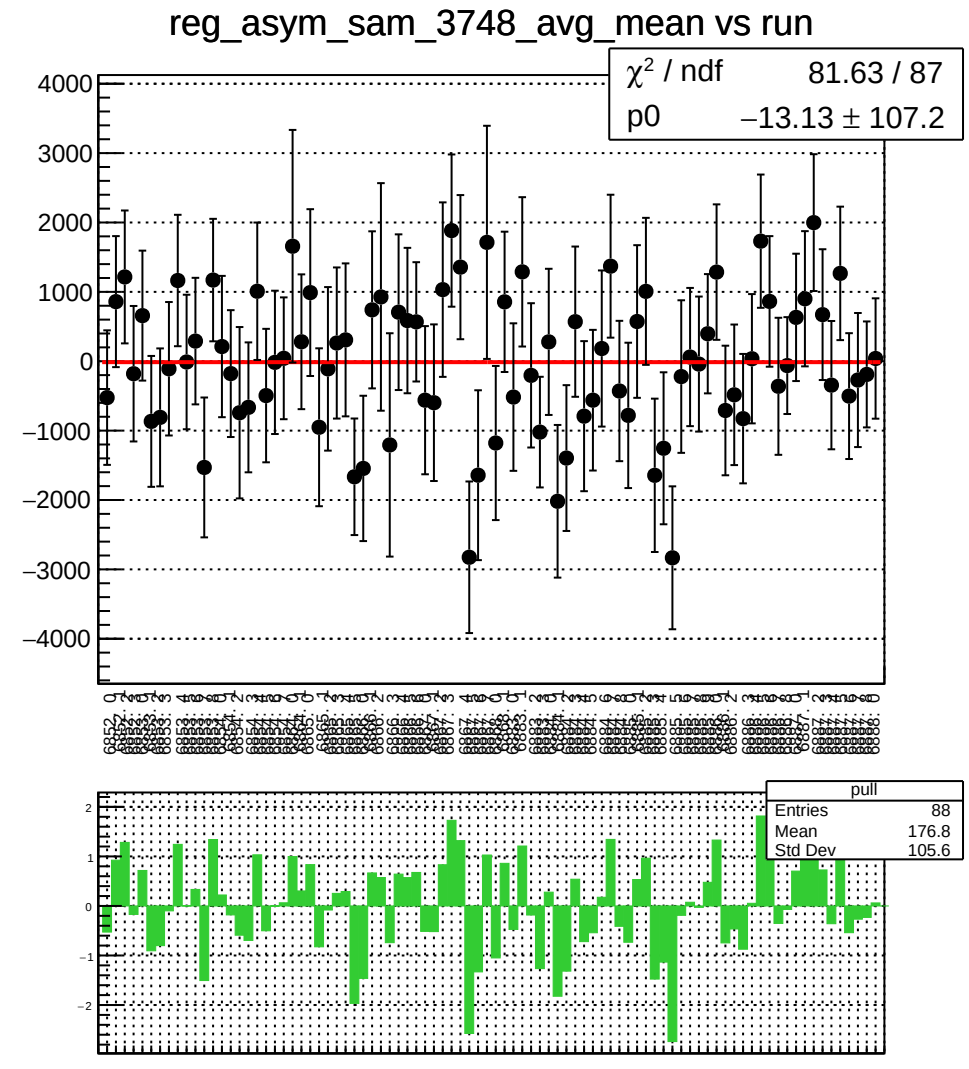

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.903e+04 / 87
p0 39.74 ± 0.03121
200
180
160
140
120
100
80
60
40
20

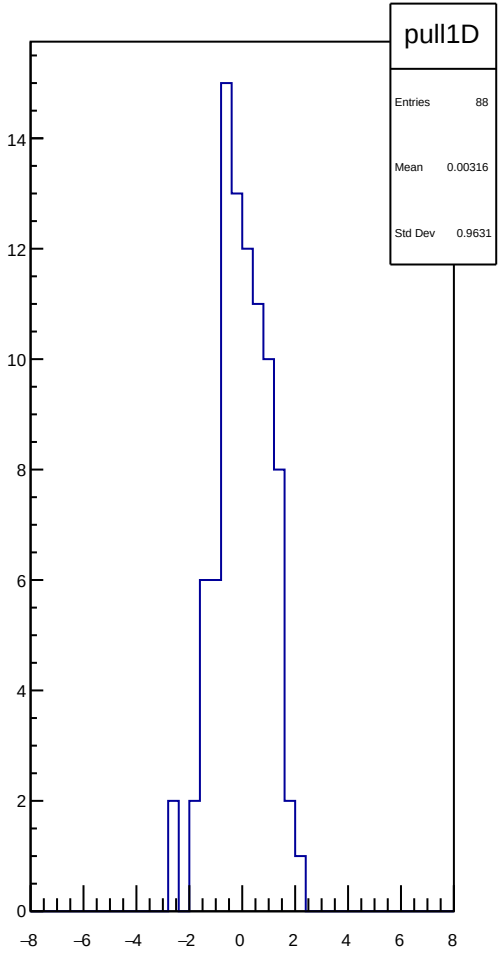

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74 / 87
p0 0.1002 ± 0.04413
pull
Entries 88
Mean 34.16
Std Dev 42.89
pull1D
Entries 88
Mean −0.01996
Std Dev 0.9168

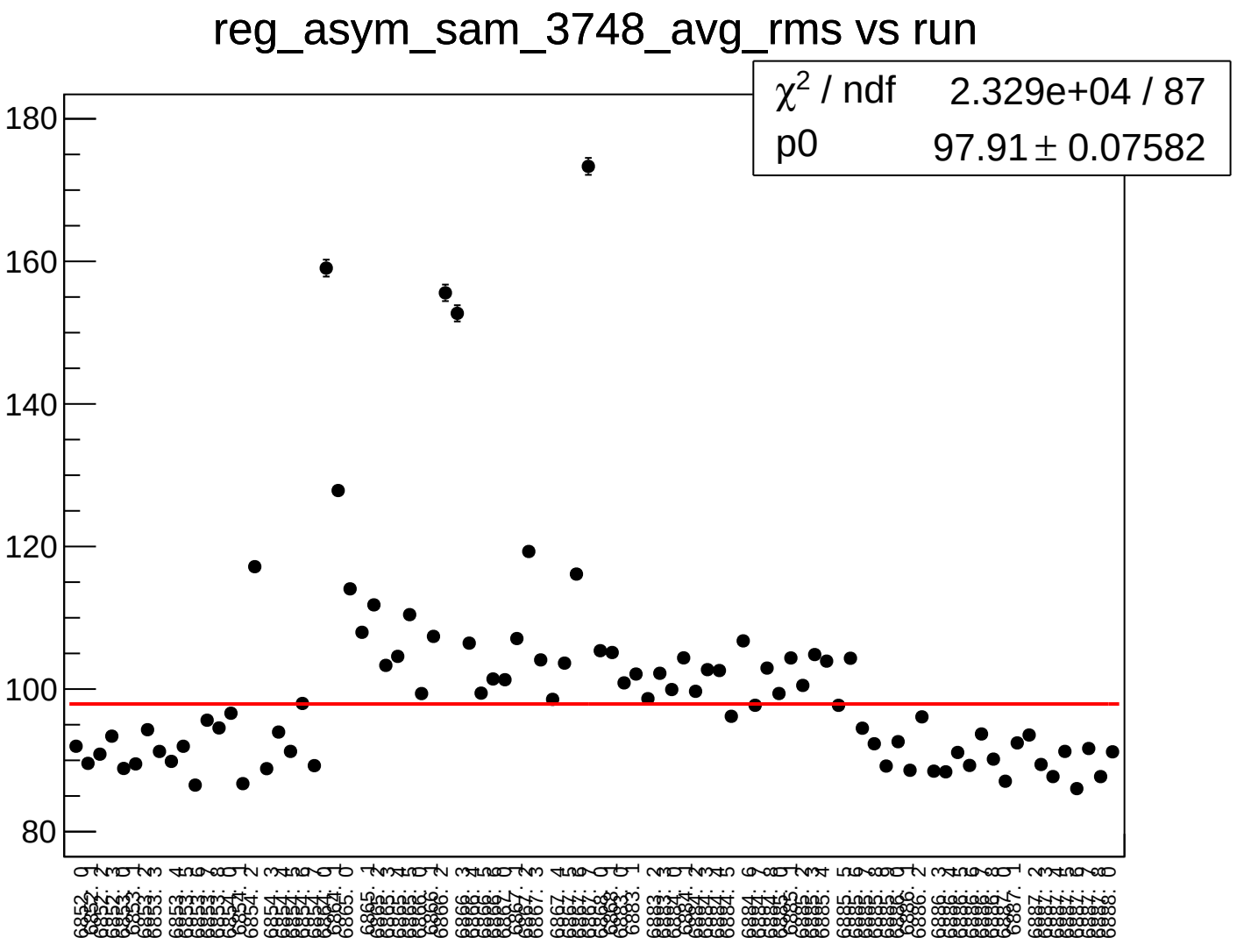

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.903e+04 / 87
p0 39.74 ± 0.03121
200
180
160
140
120
100
80
60
40
20

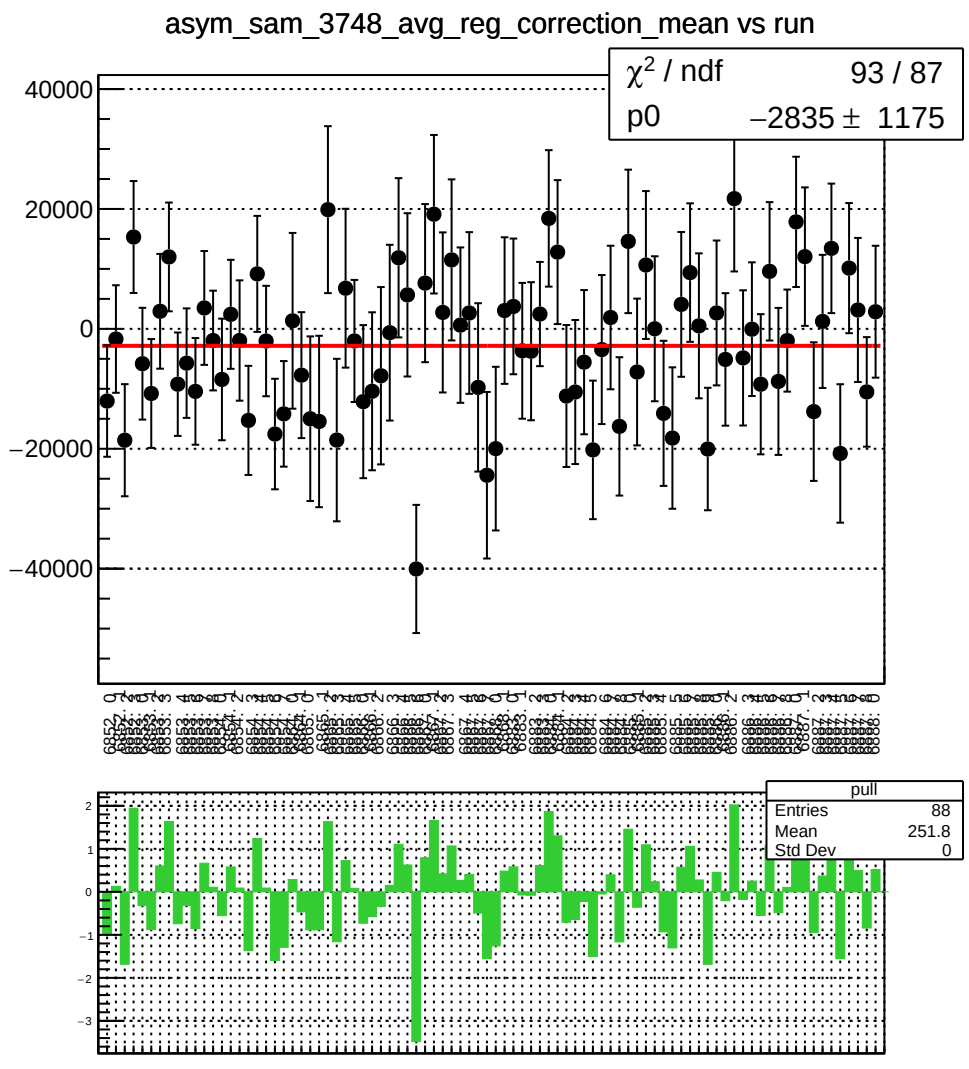

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 97.29 / 87
p0 −1.661e−14 ± 2.148e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 88
Mean 14.11
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.07002
Std Dev 1.049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

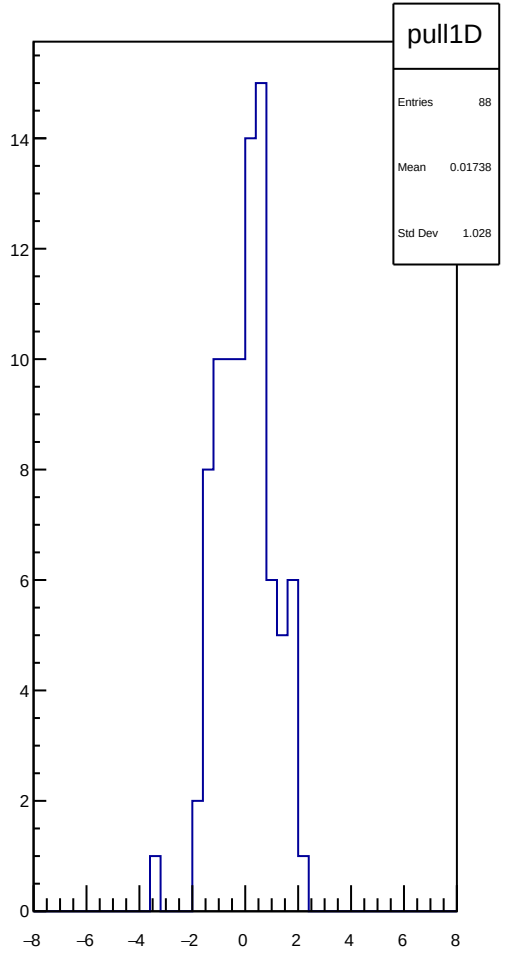

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.641e+05 / 87
p0 1.612e−11 ± 1.519e−14
90
80
70
60
50
40
30
20
10

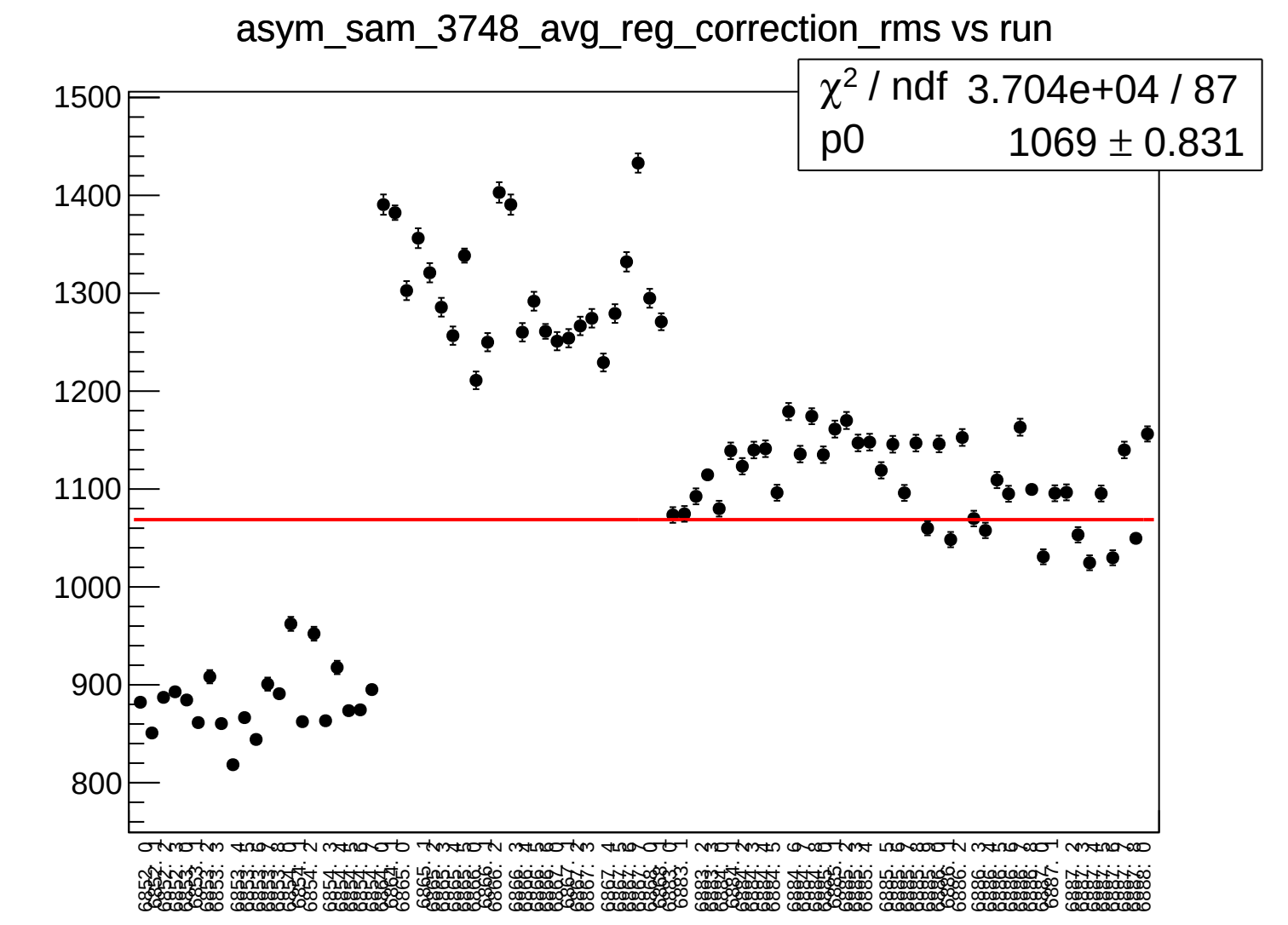

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 81.63 / 87
p0 −13.13 ± 107.2
pull
Entries 88
Mean 176.8
Std Dev 105.6

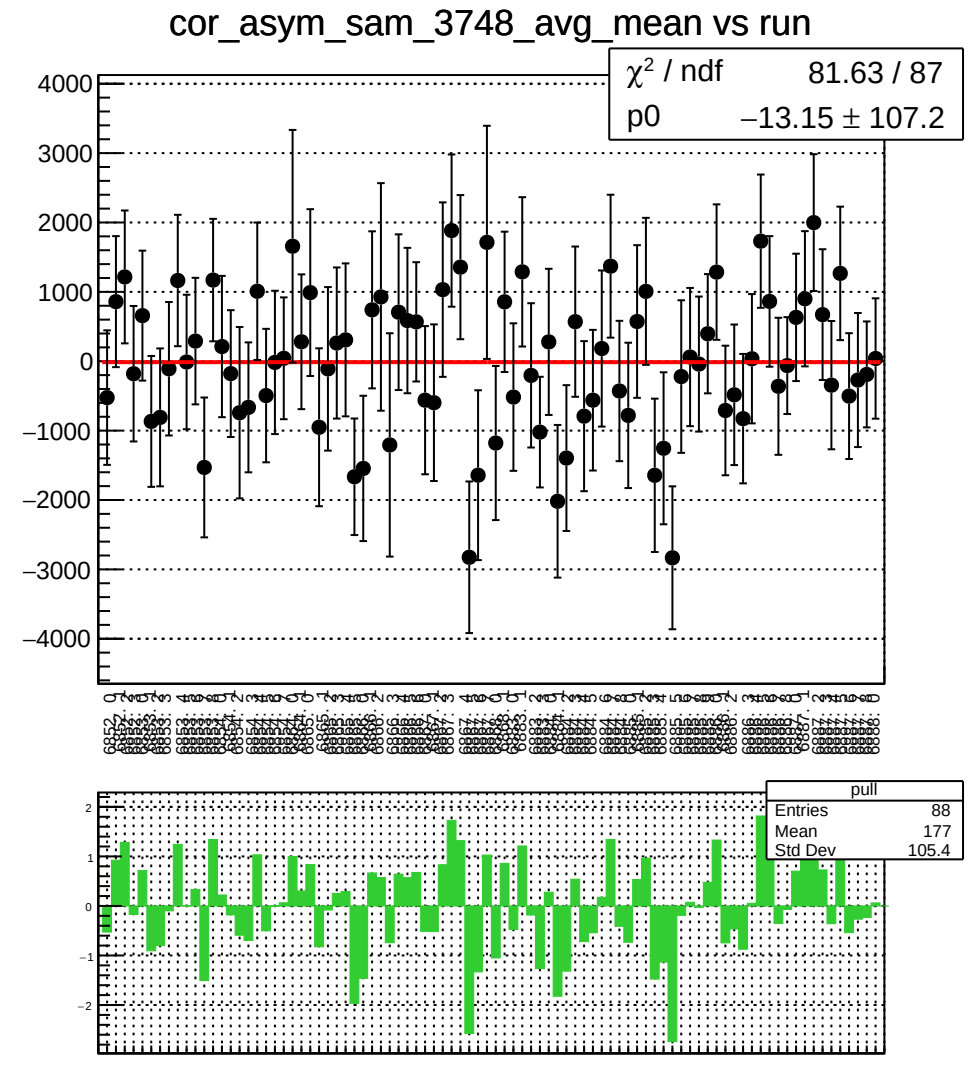

pull1D
Entries 88
Mean 0.00316
Std Dev 0.9631

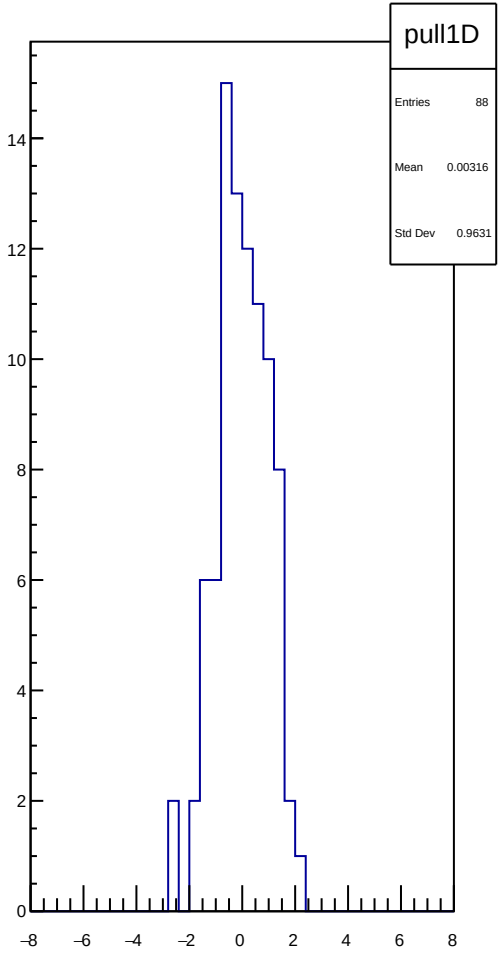

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2.329e+04 / 87
p0 97.91 ± 0.07582
180
160
140
120
100
80

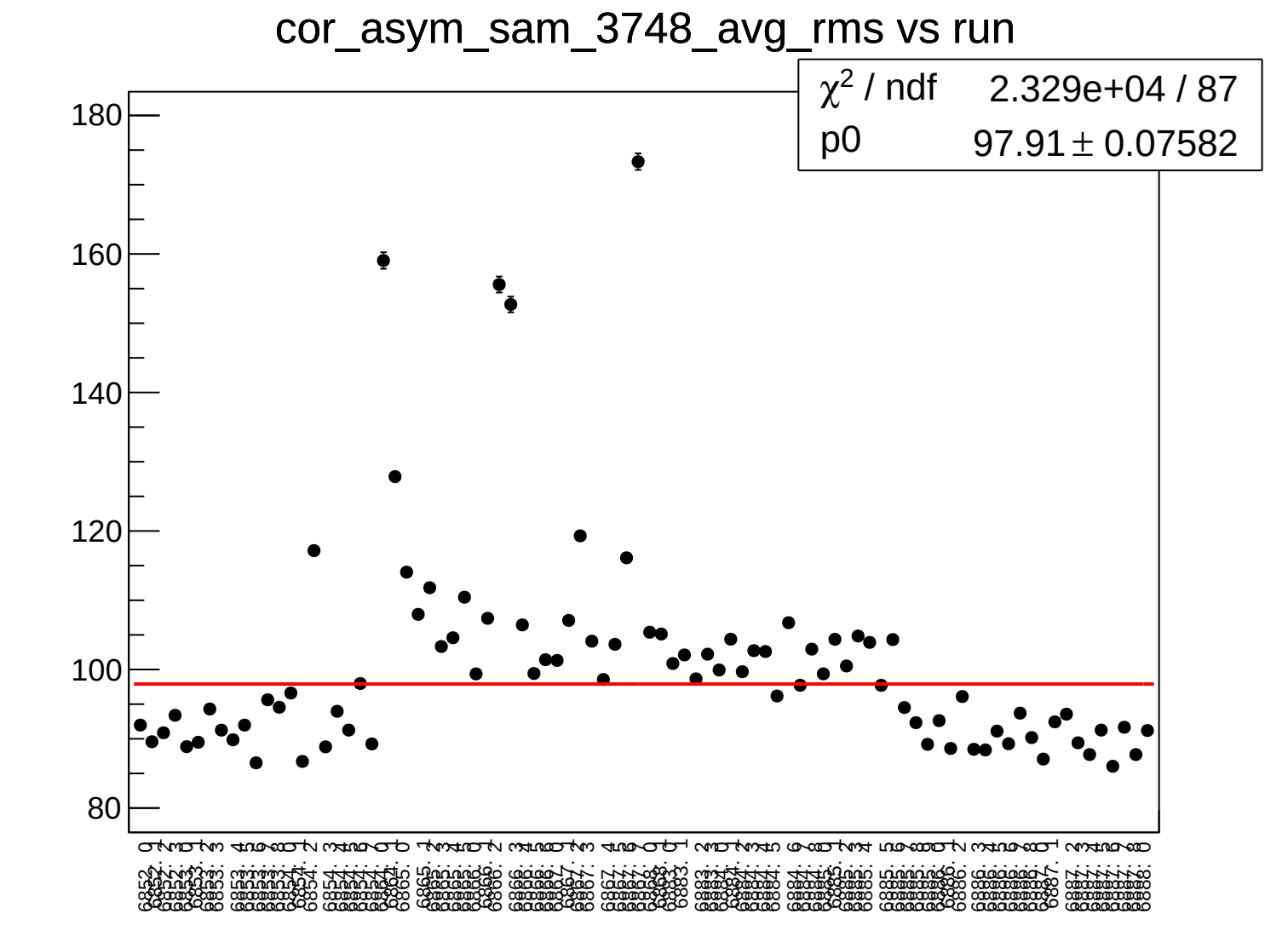

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 93 / 87
p0 −2835 ± 1175
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 251.8
Std Dev 0
2
1
0
−1
−2
−3

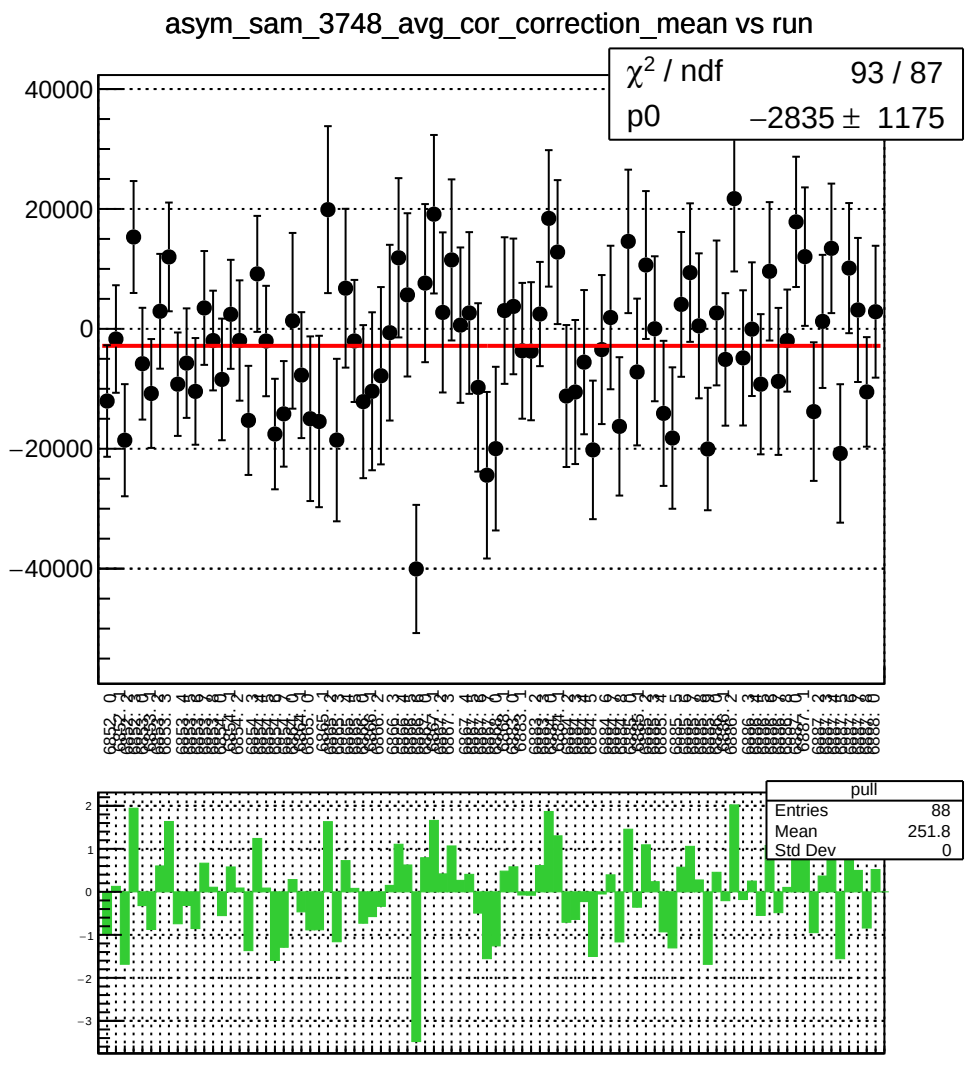

pull1D
Entries 88
Mean 0.01738
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

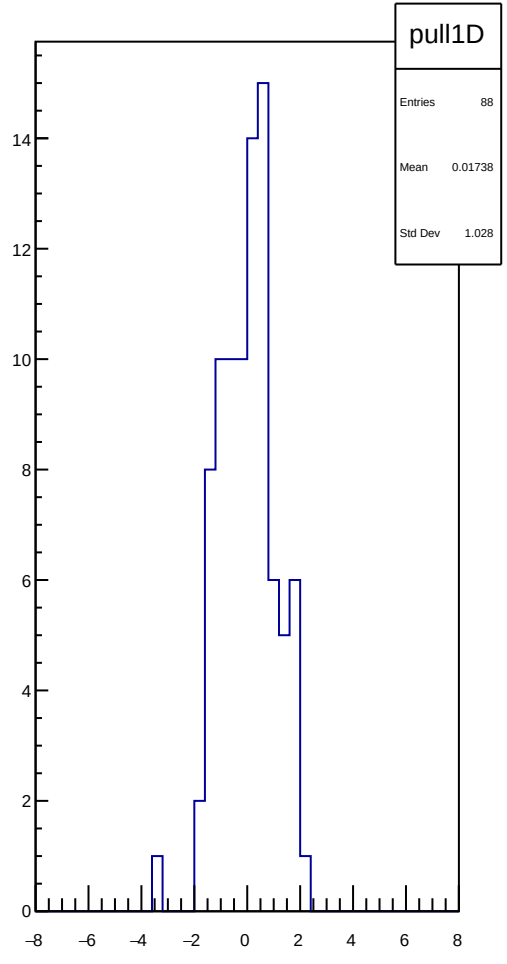

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 3.704e+04 / 87
p0 1069 ± 0.831
1500
1400
1300
1200
1100
1000
900
800

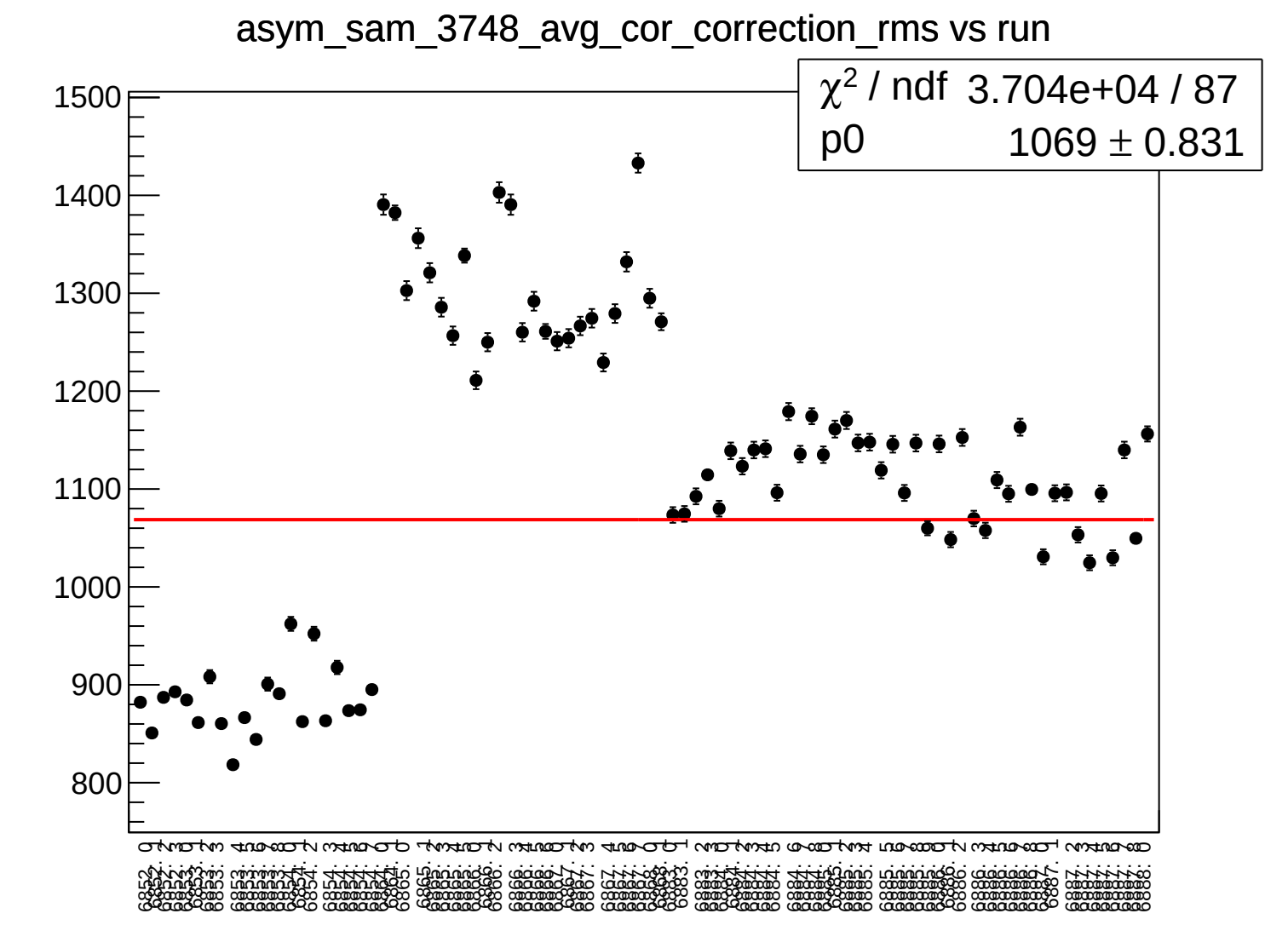

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 81.63 / 87
p0 −13.15 ± 107.2
pull
Entries 88
Mean 177
Std Dev 105.4

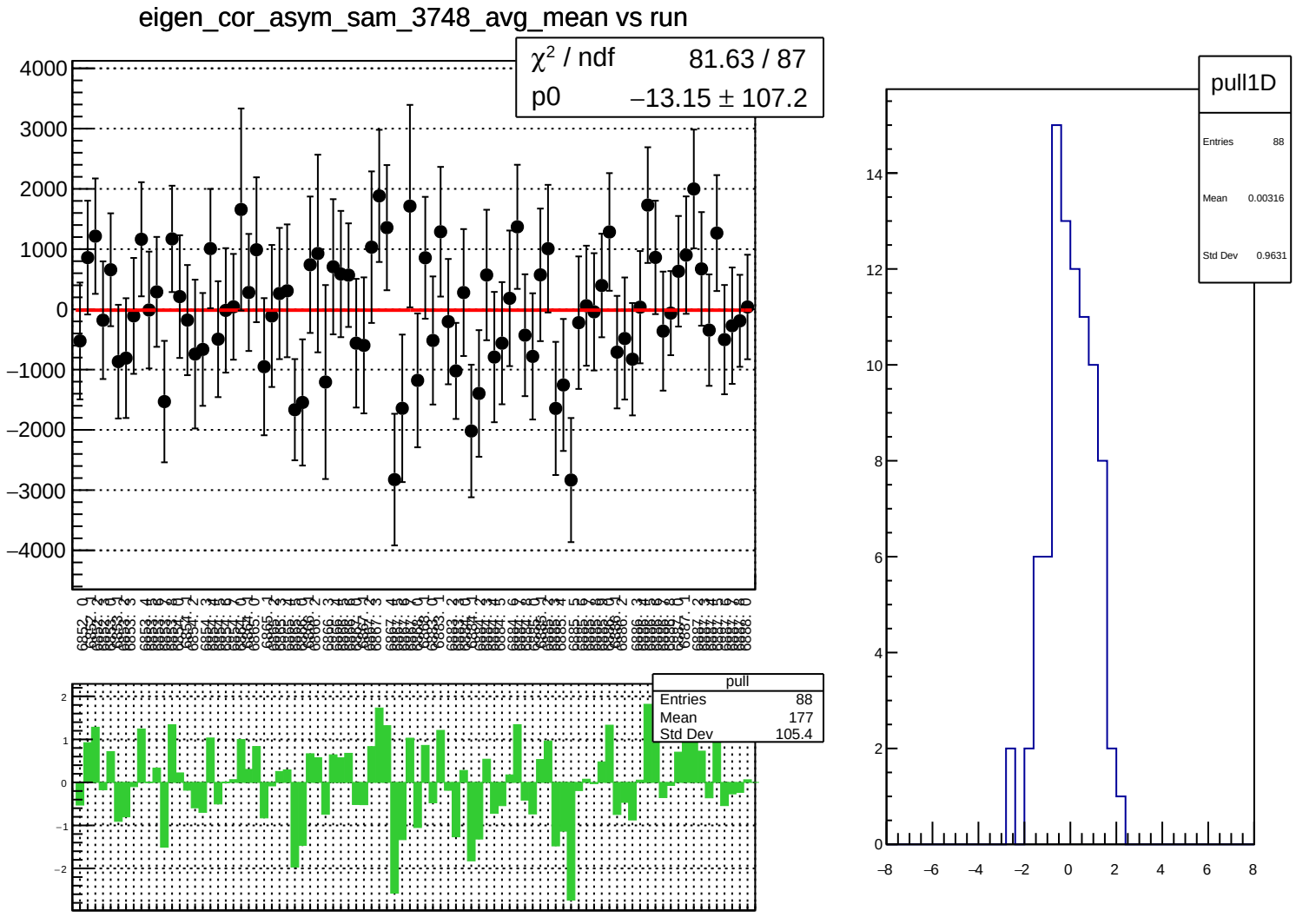

pull1D
Entries 88
Mean 0.00316
Std Dev 0.9631

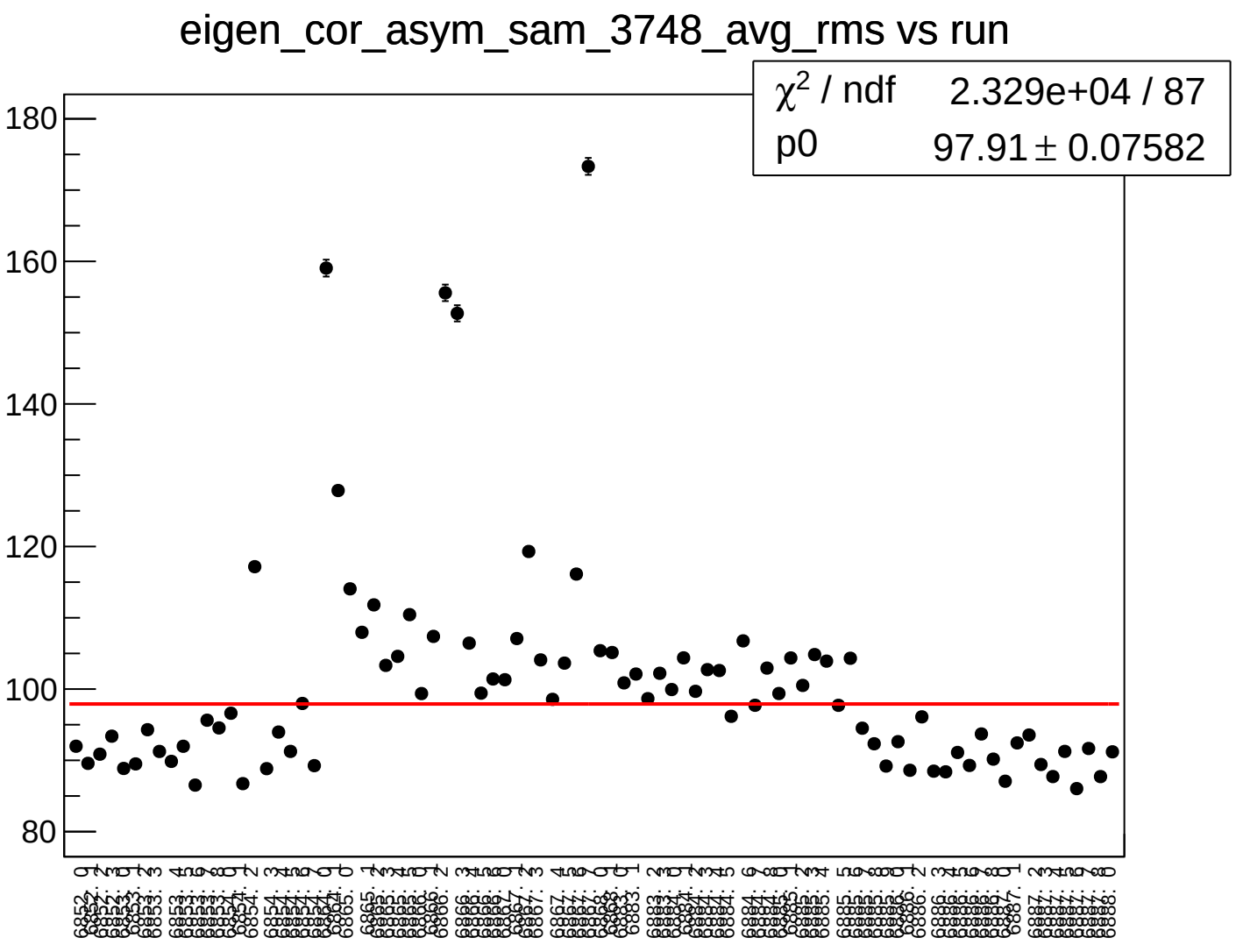

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2.329e+04 / 87
p0 97.91 ± 0.07582
180
160
140
120
100
80

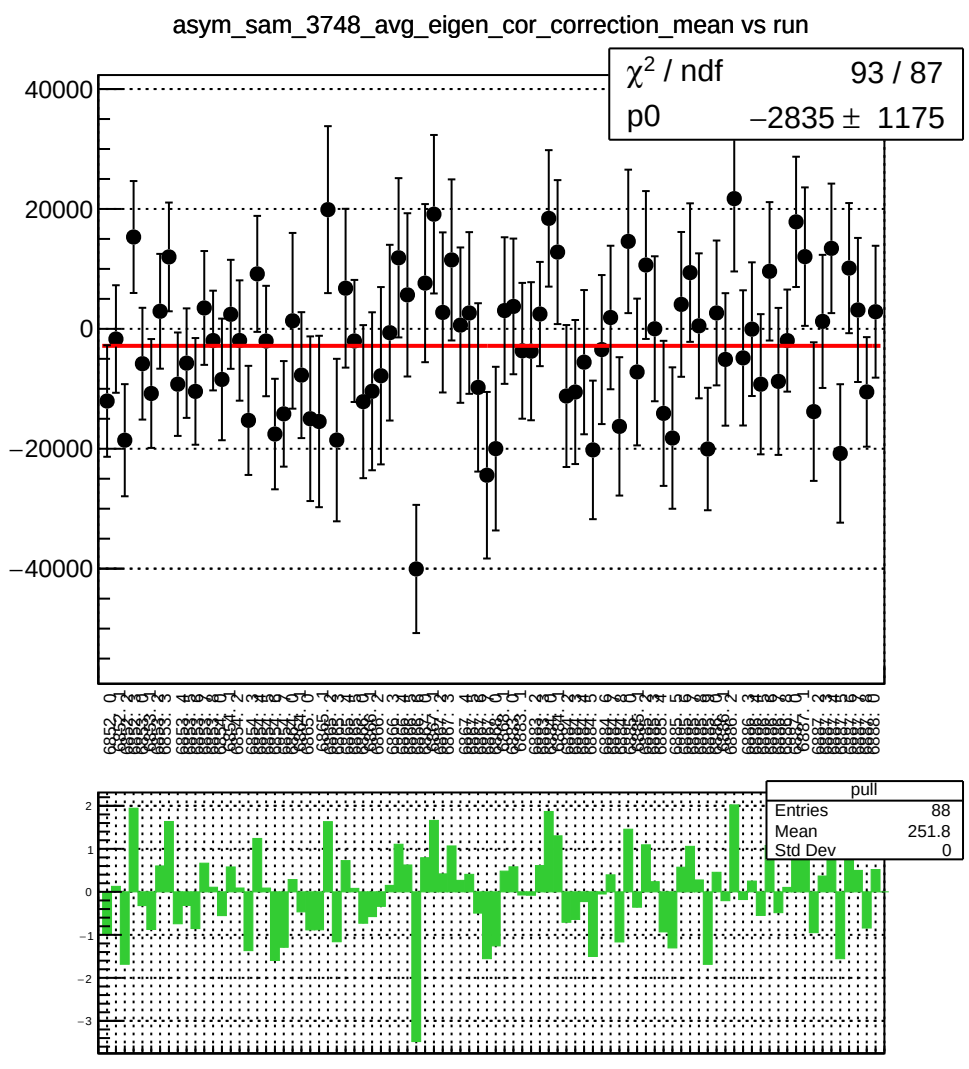

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 93 / 87
p0 −2835 ± 1175
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 251.8
Std Dev 0
2
1
0
−1
−2
−3

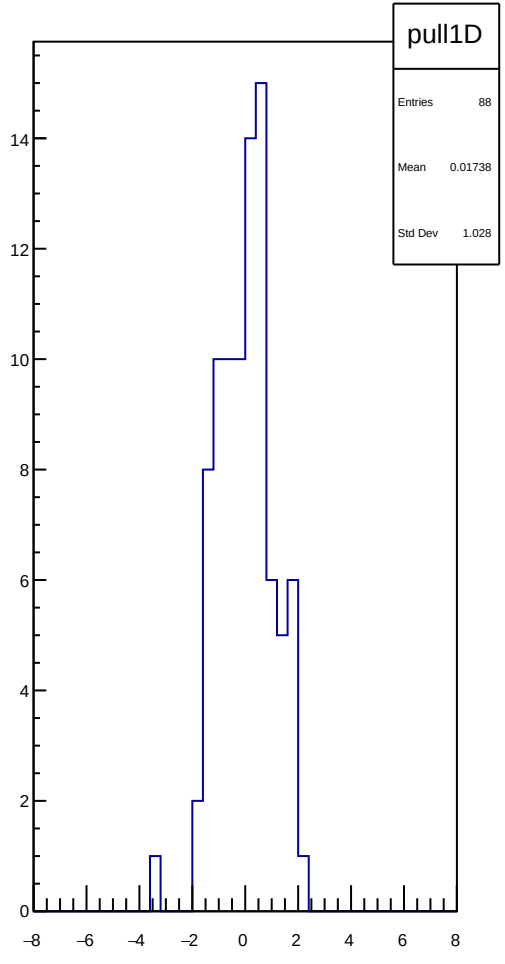

pull1D
Entries 88
Mean 0.01738
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

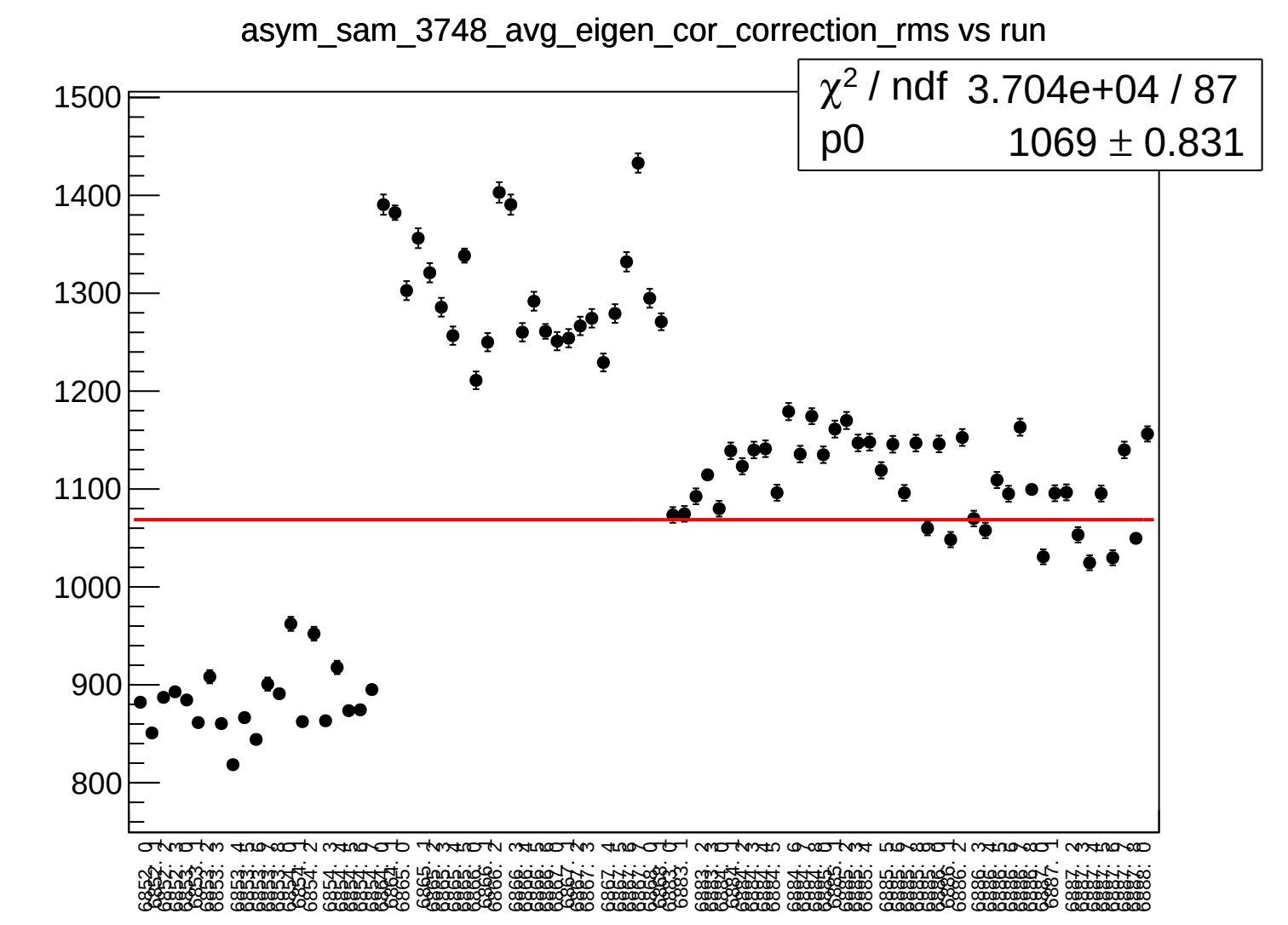

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 3.704e+04 / 87
p0 1069 ± 0.831
1500
1400
1300
1200
1100
1000
900
800

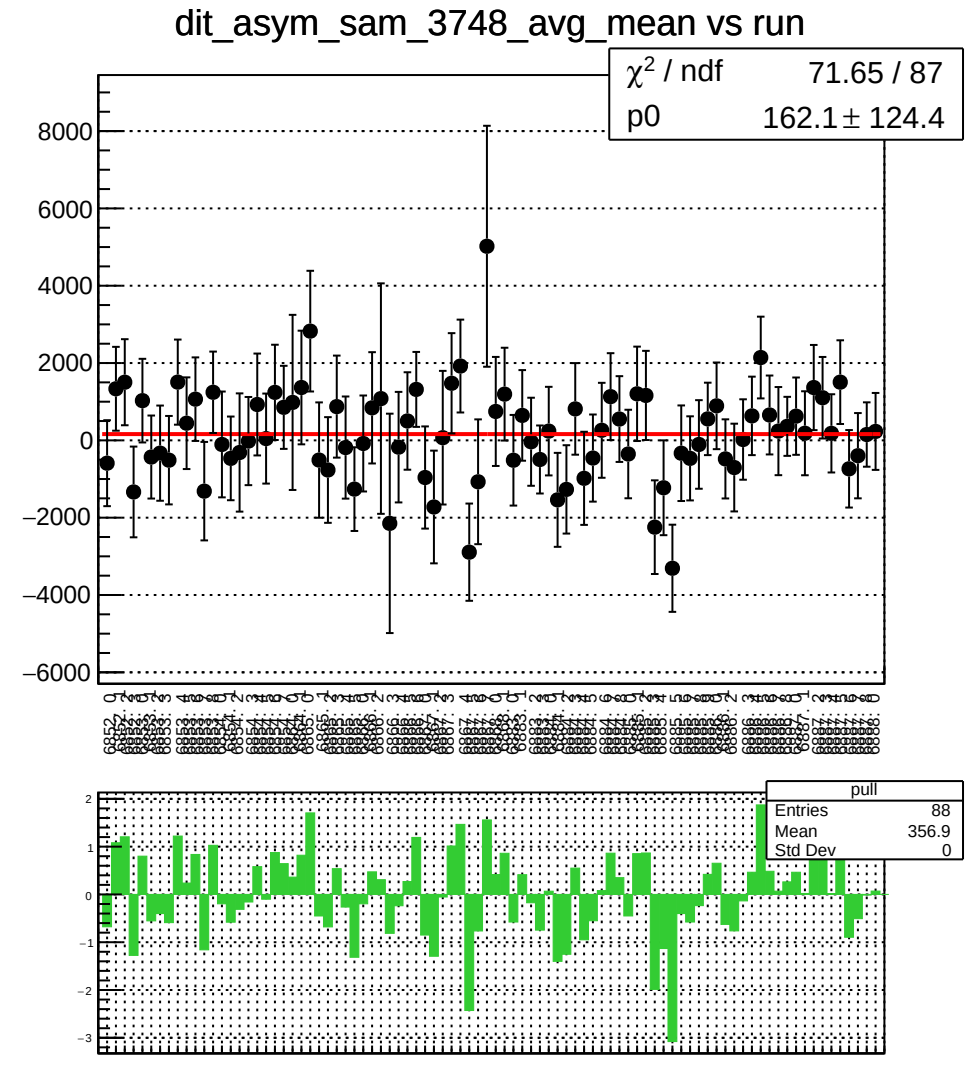

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 81.63 / 87
p0 −13.15 ± 107.2
pull
Entries 88
Mean 177
Std Dev 105.4
pull1D
Entries 88
Mean 0.00316
Std Dev 0.9631

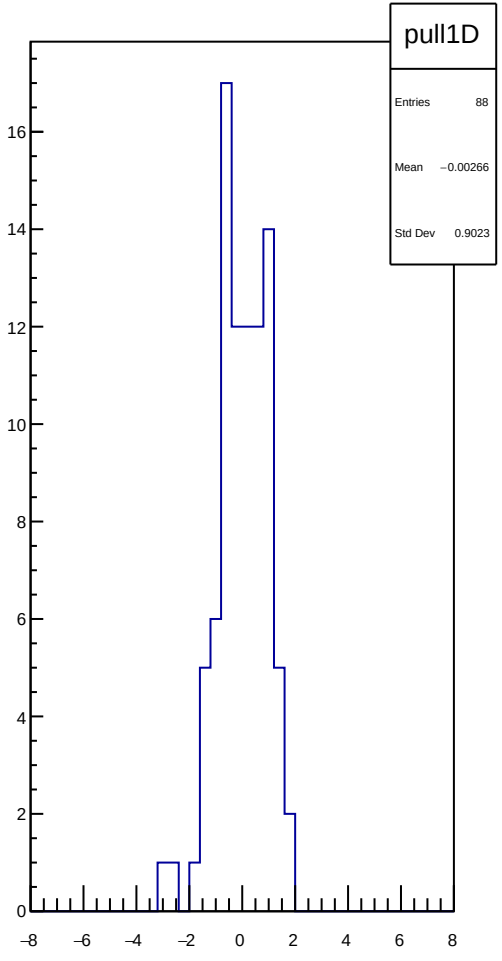

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.329e+04 / 87
p0 97.91 ± 0.07582
180
160
140
120
100
80

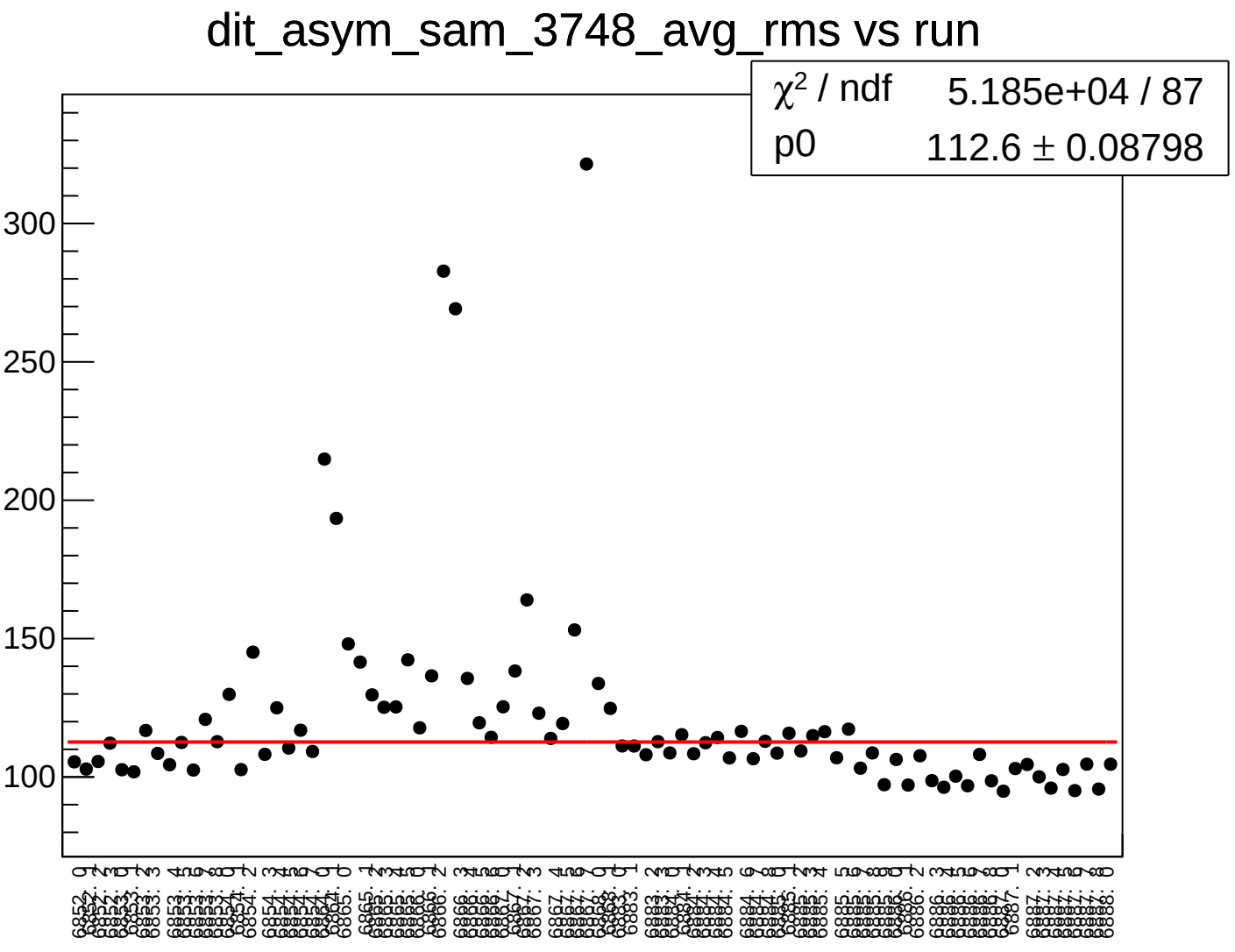

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 93 / 87
p0 −2835 ± 1175
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 251.8
Std Dev 0
2
1
0
−1
−2
−3

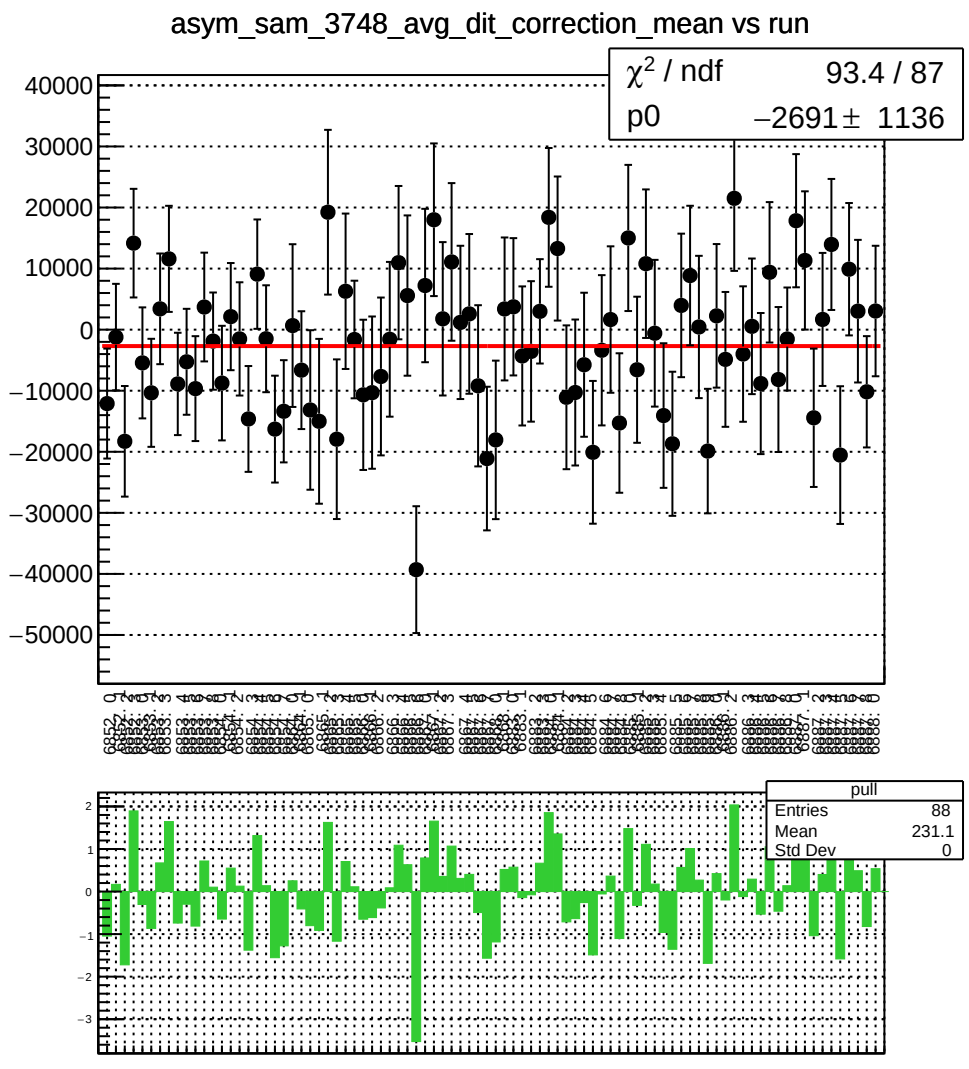

pull1D
Entries 88
Mean 0.01738
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

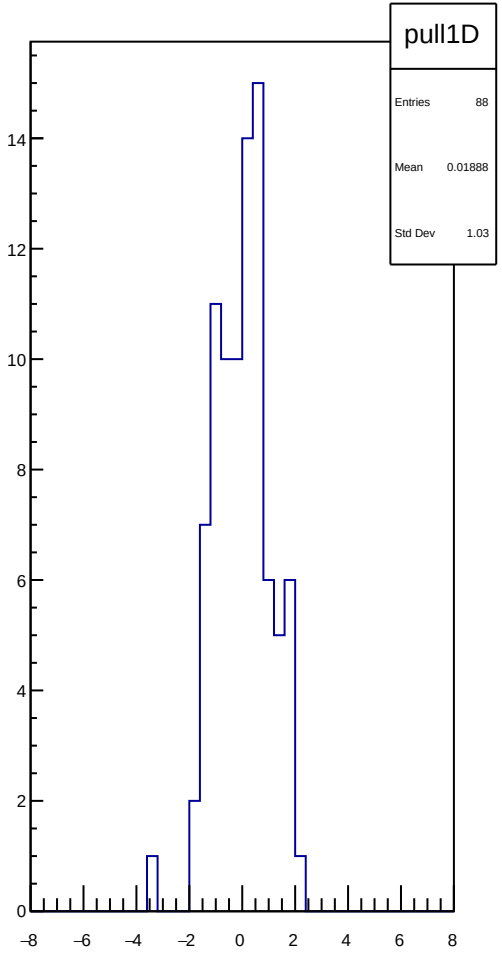

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.704e+04 / 87
p0 1069 ± 0.831
1500
1400
1300
1200
1100
1000
900
800

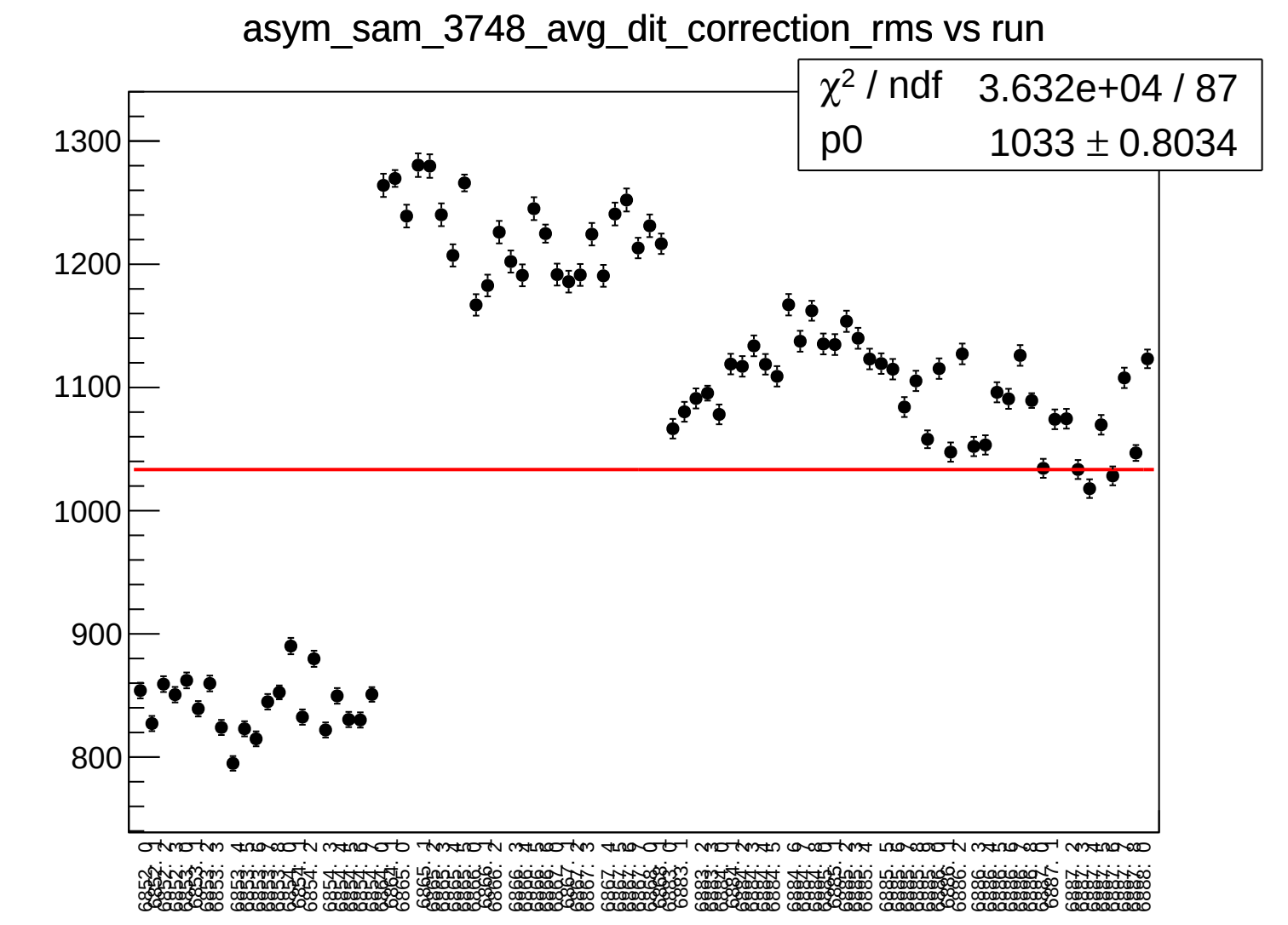

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 71.65 / 87
p0 162.1 ± 124.4
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 356.9
Std Dev 0
2
1
0
−1
−2
−3

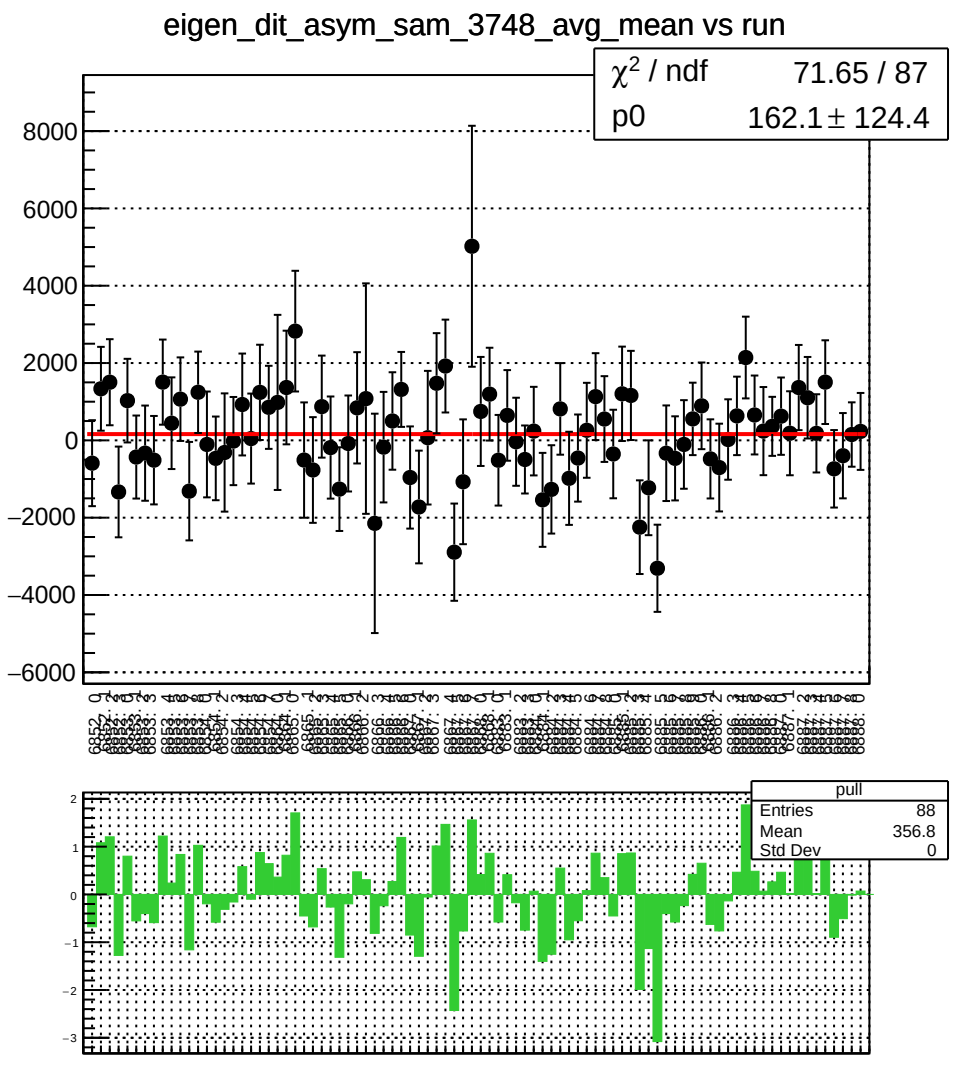

pull1D
Entries 88
Mean −0.00266
Std Dev 0.9023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

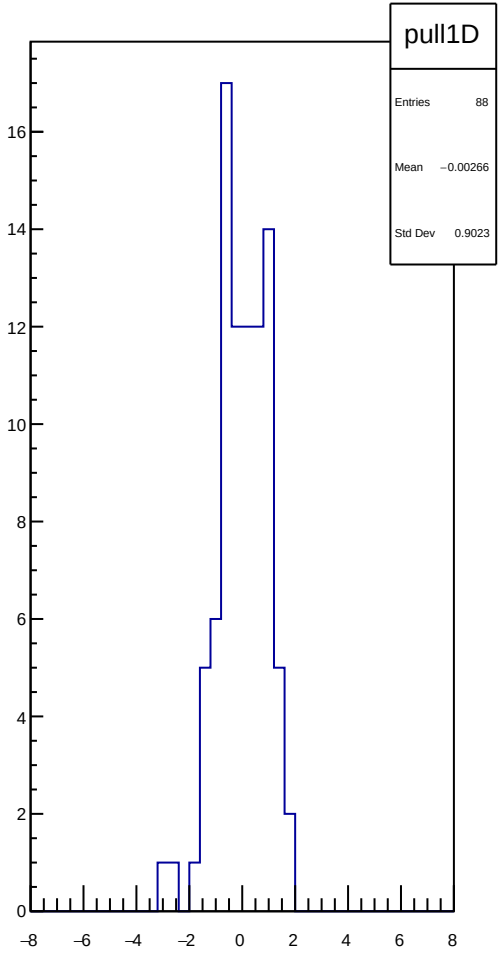

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 5.185e+04 / 87
p0 112.6 ± 0.08798
300
250
200
150
100

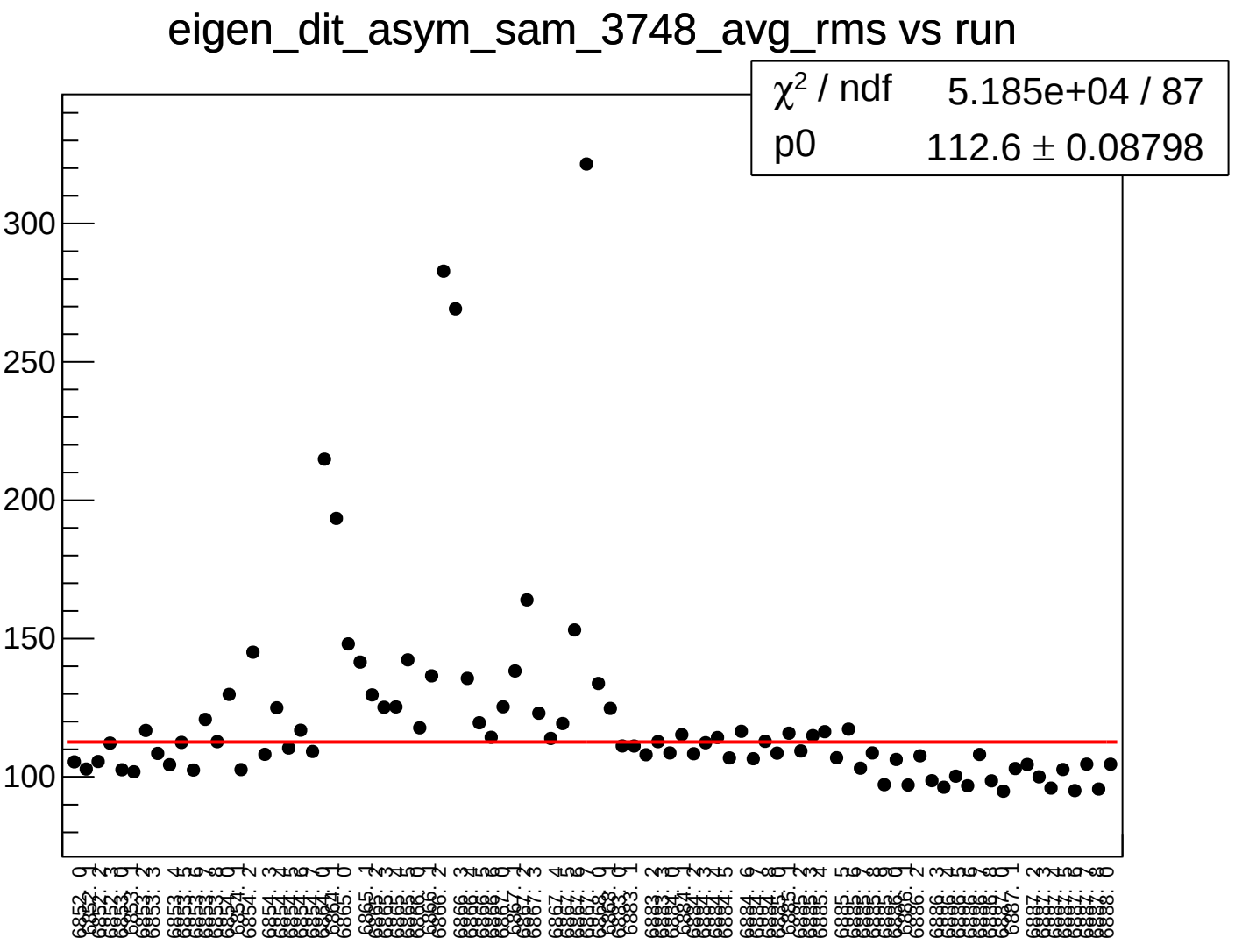

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 93.4 / 87
p0 −2691 ± 1136
pull
Entries 88
Mean 231.1
Std Dev 0

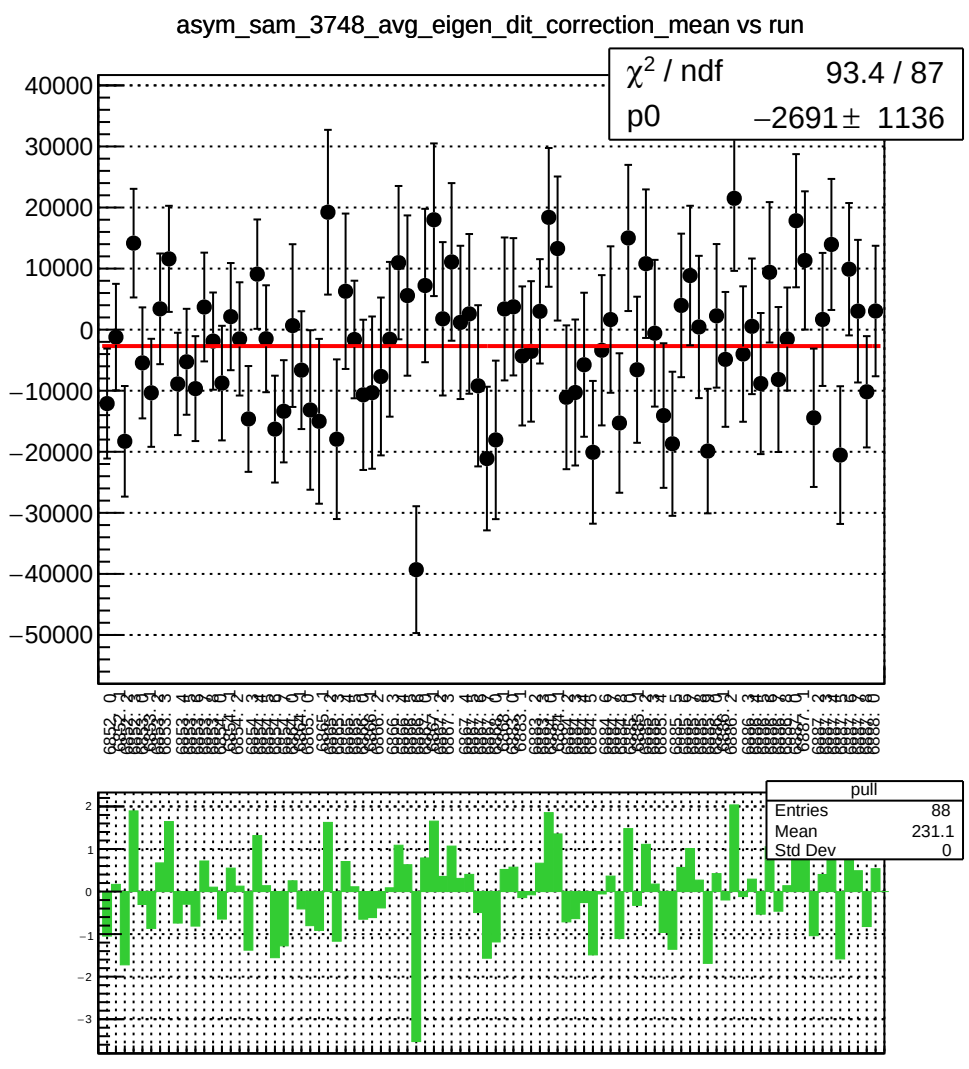

pull1D
Entries 88
Mean 0.01888
Std Dev 1.03

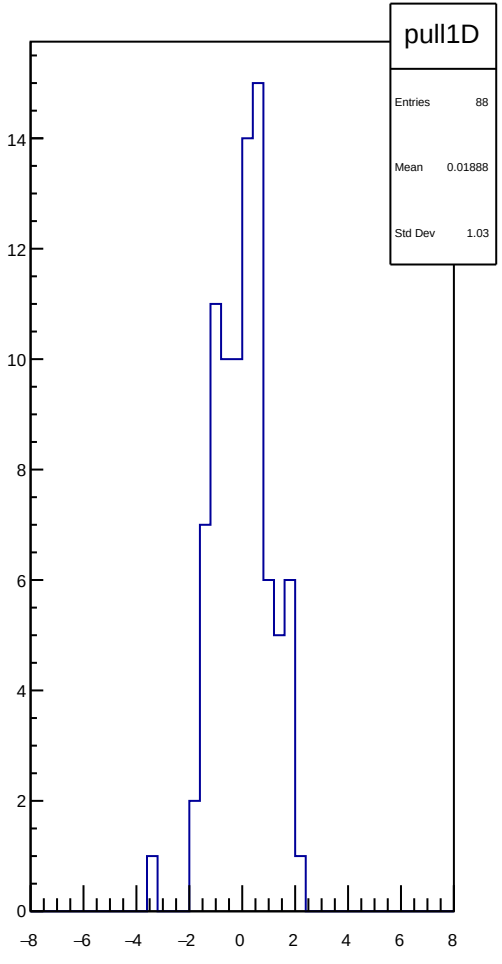

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 3.632e+04 / 87
p0 1033 ± 0.8034
1300
1200
1100
1000
900
800

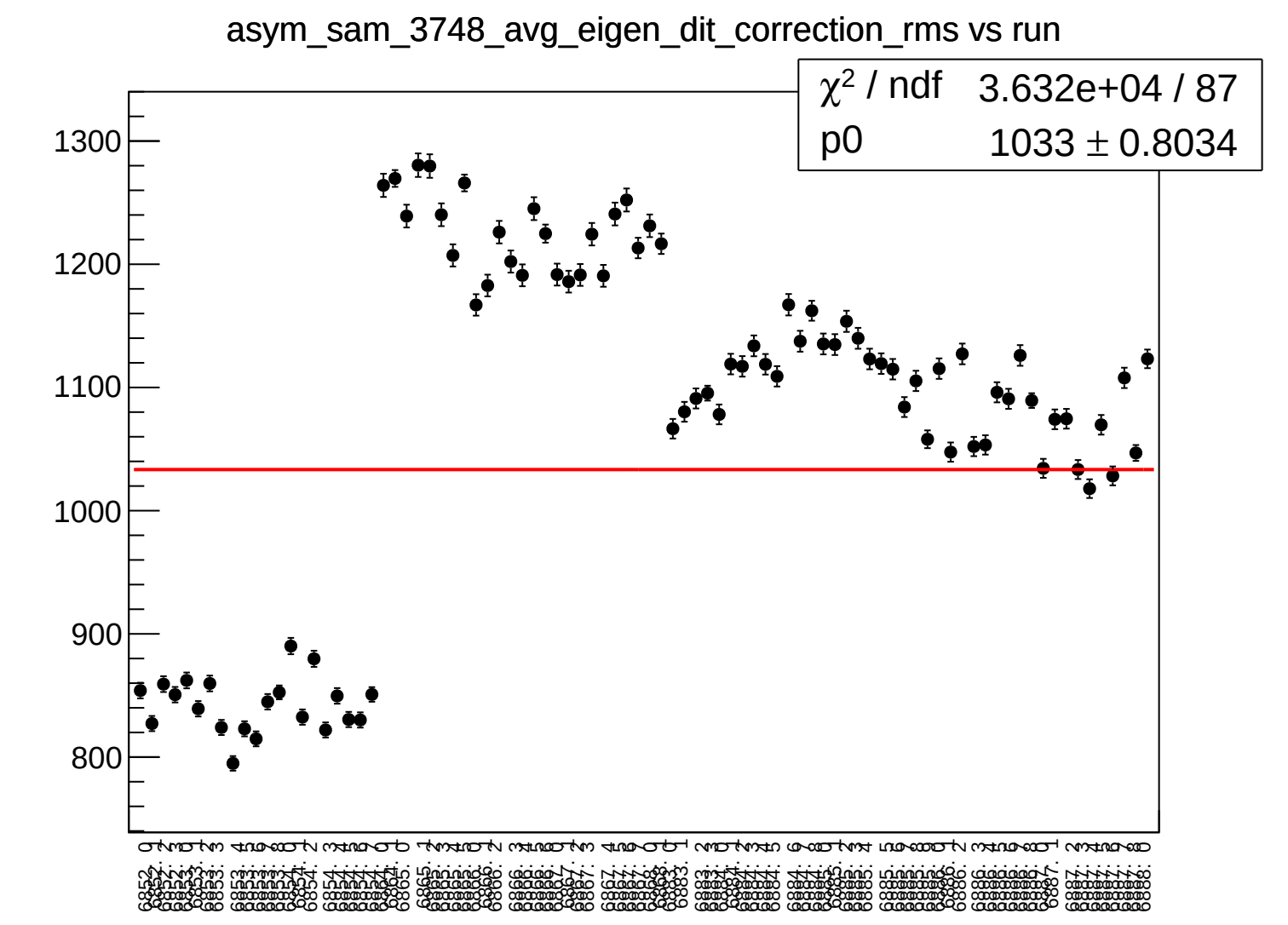

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 71.65 / 87
p0 162.1 ± 124.4
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 356.8
Std Dev 0
2
1
0
−1
−2
−3

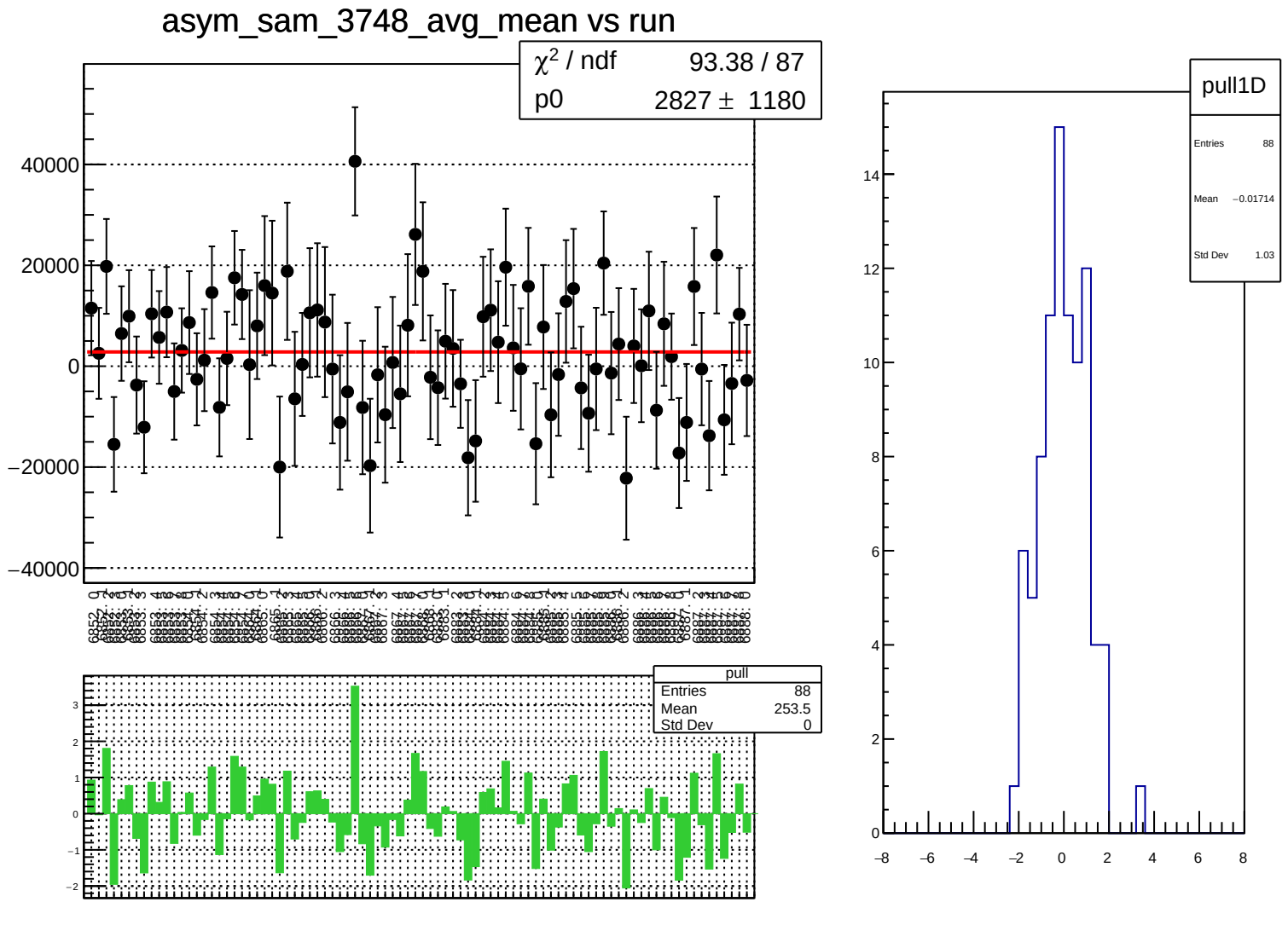

pull1D
Entries 88
Mean −0.00266
Std Dev 0.9023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

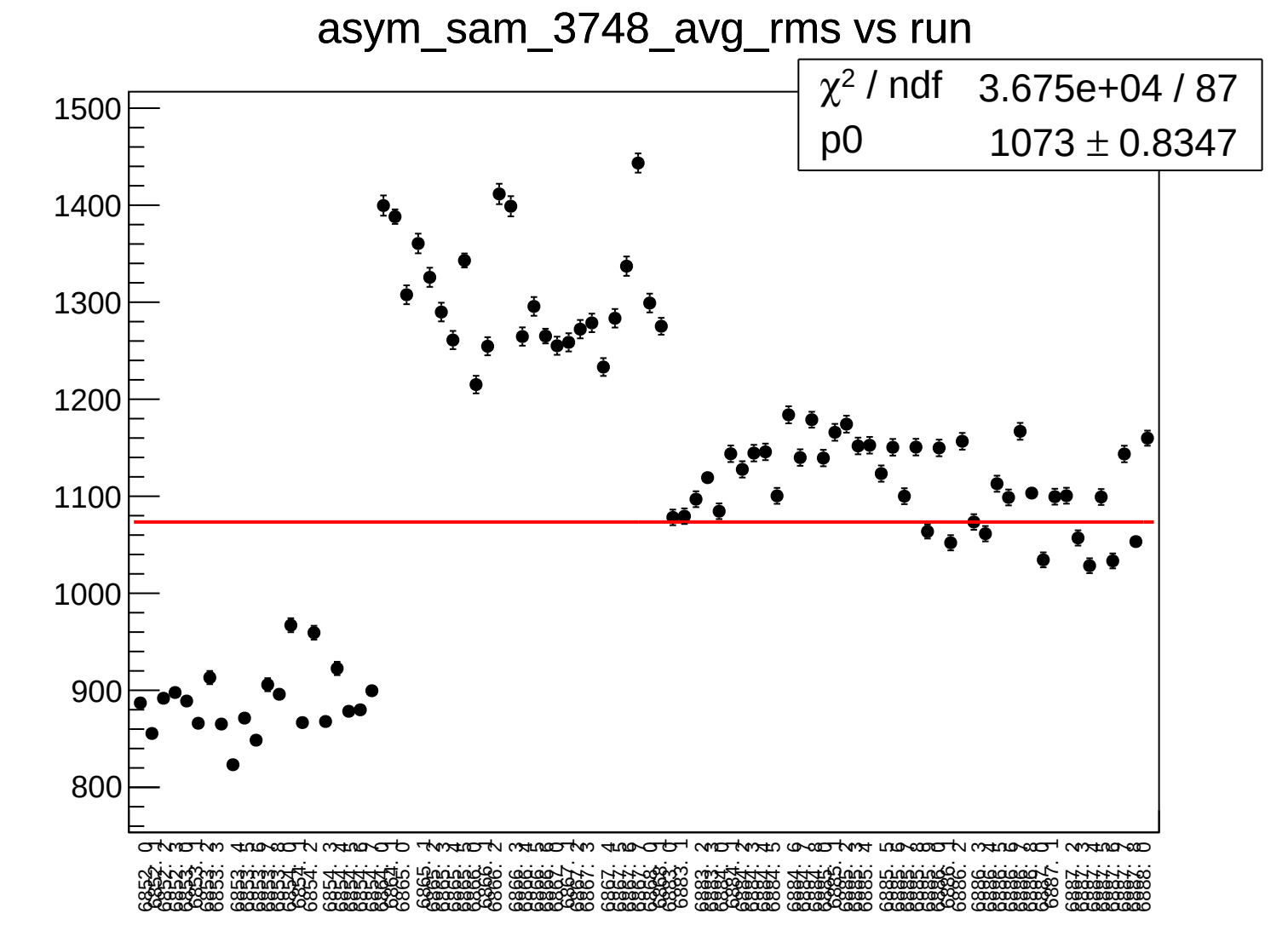

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 5.185e+04 / 87
p0 112.6 ± 0.08798
300
250
200
150
100

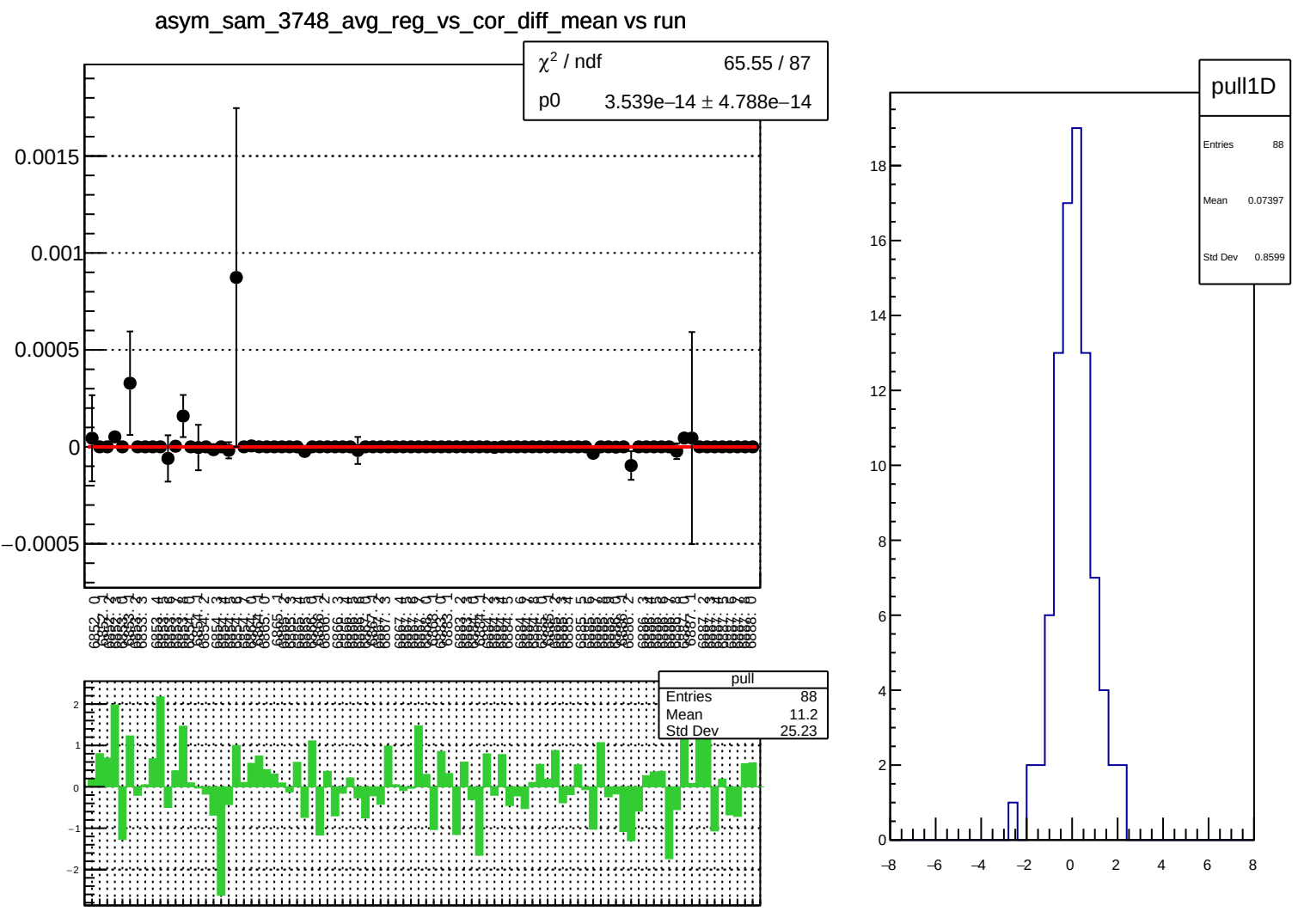

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 93.4 / 87
p0 −2691 ± 1136
pull
Entries 88
Mean 231.1
Std Dev 0

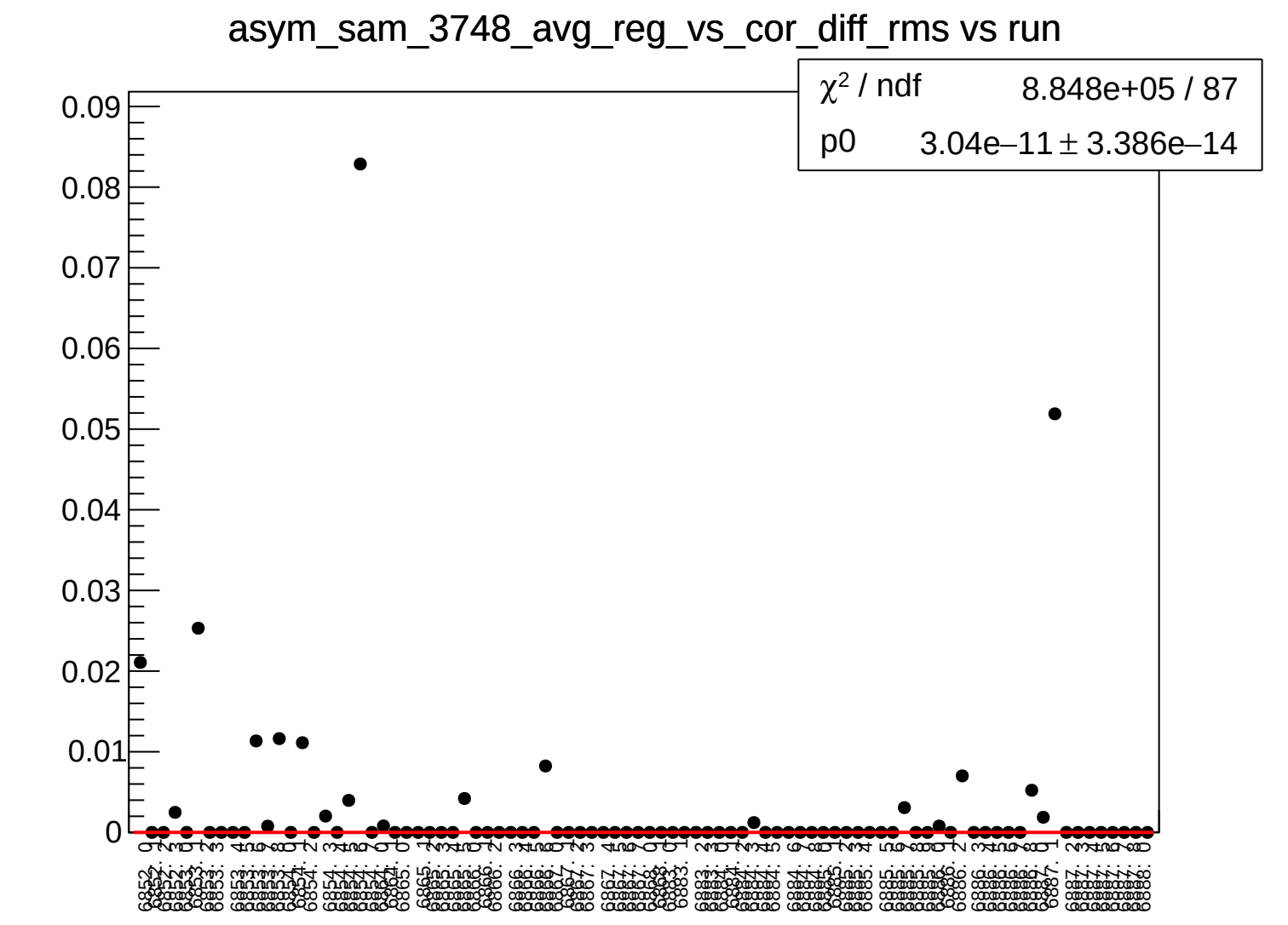

pull1D
Entries 88
Mean 0.01888
Std Dev 1.03

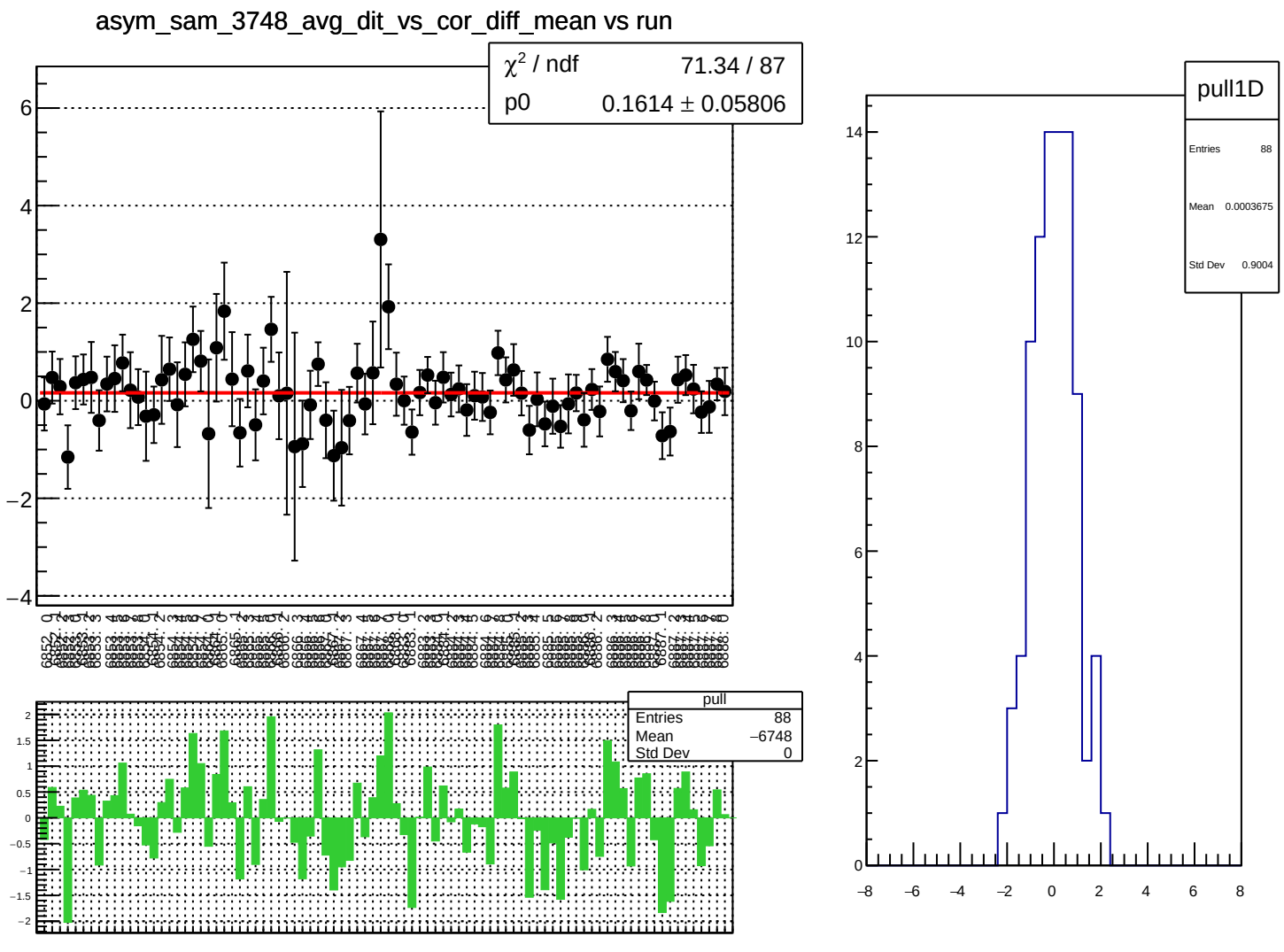

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.632e+04 / 87
p0 1033 ± 0.8034
1300
1200
1100
1000
900
800

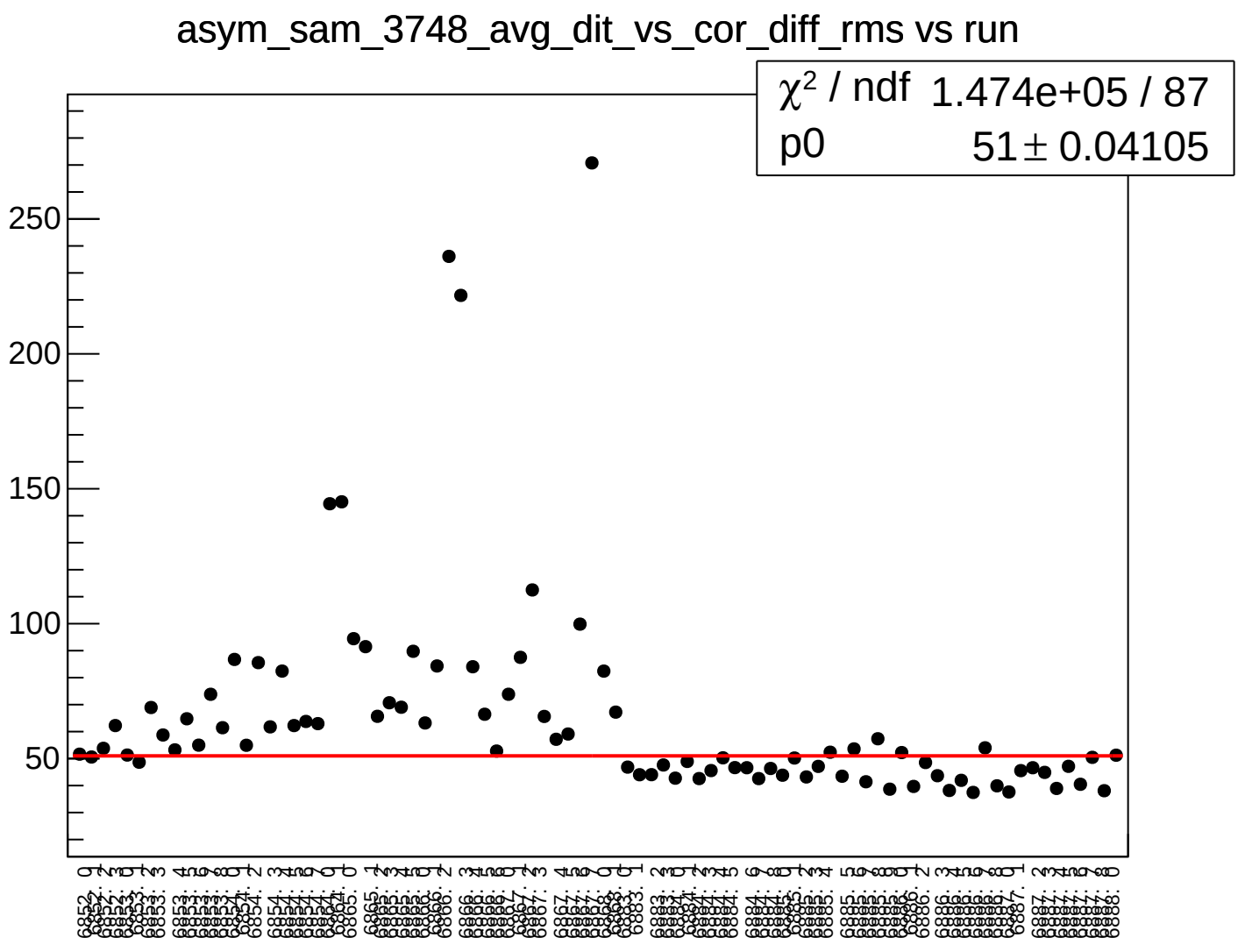

asym_sam_3748_avg_mean vs run
χ² / ndf 93.38 / 87
p0 2827 ± 1180
40000
20000
0
−20000
−40000
pull
Entries 88
Mean 253.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.01714
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

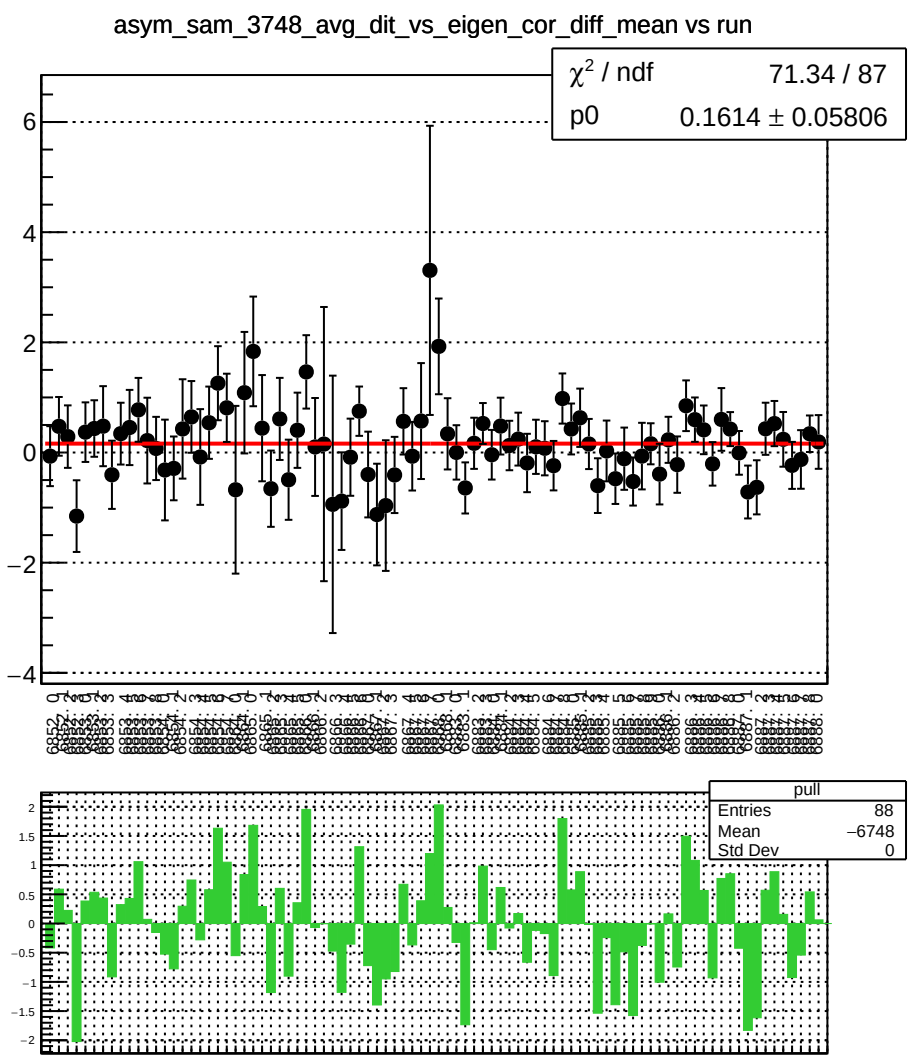

asym_sam_3748_avg_rms vs run
χ² / ndf 3.675e+04 / 87
p0 1073 ± 0.8347
1500
1400
1300
1200
1100
1000
900
800

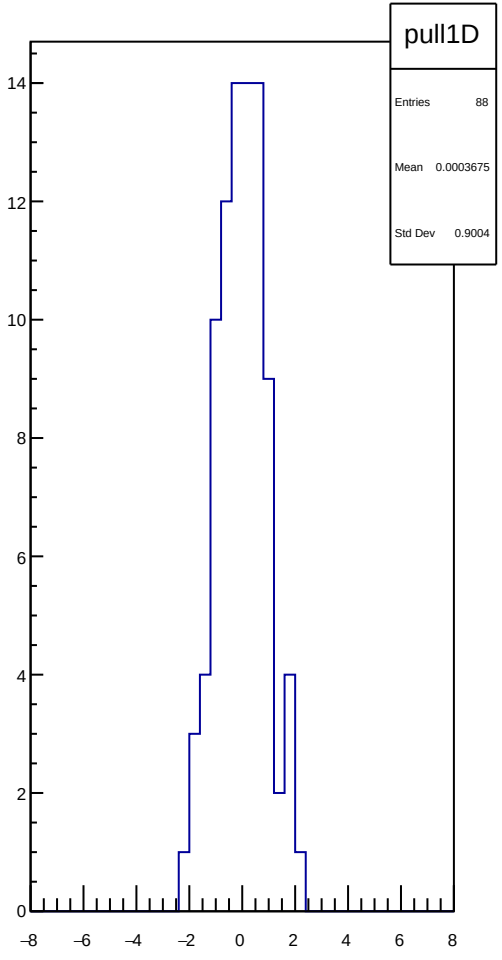

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 65.55 / 87
p0 3.539e−14 ± 4.788e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 88
Mean 11.2
Std Dev 25.23
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.07397
Std Dev 0.8599
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

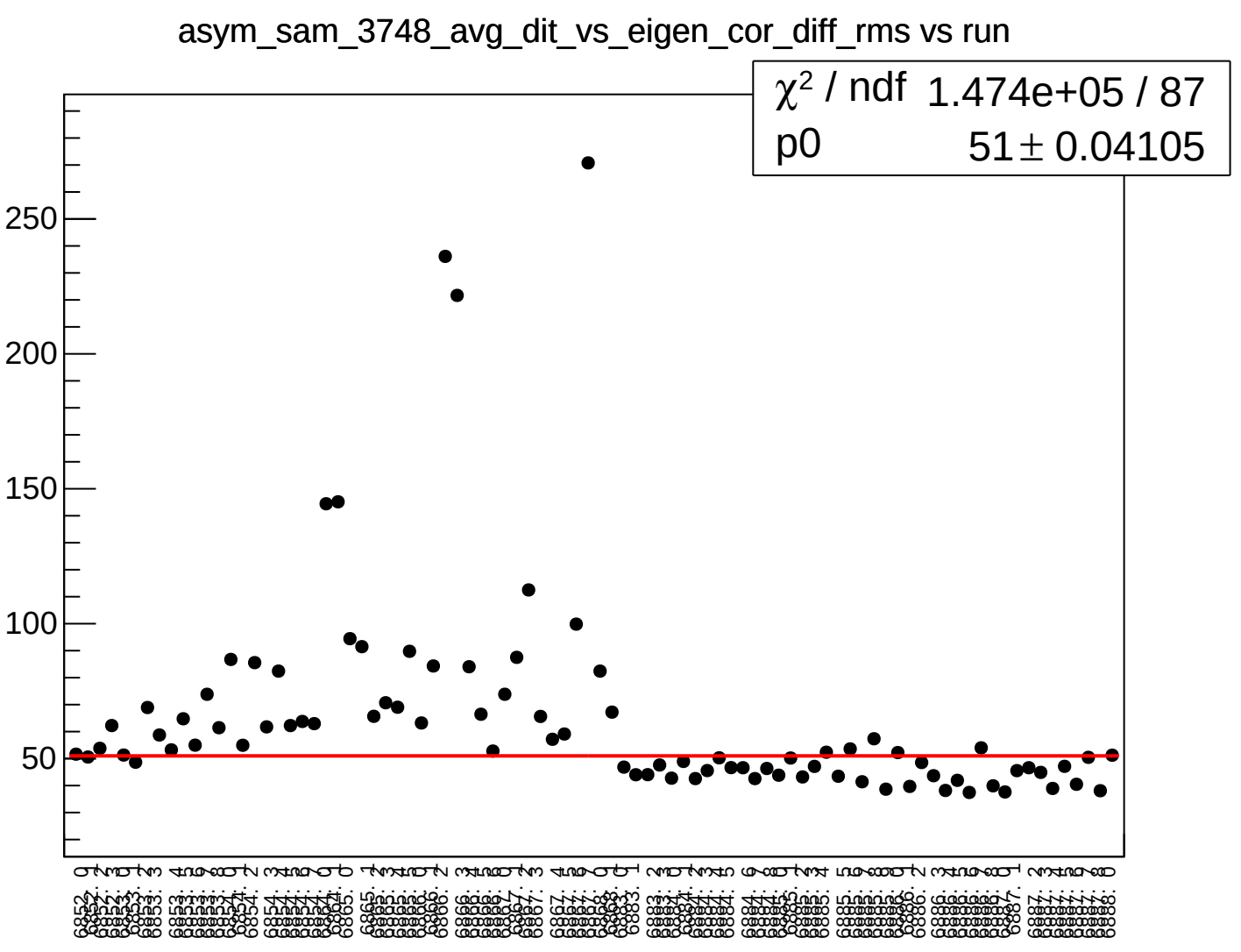

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.848e+05 / 87
p0 3.04e−11 ± 3.386e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

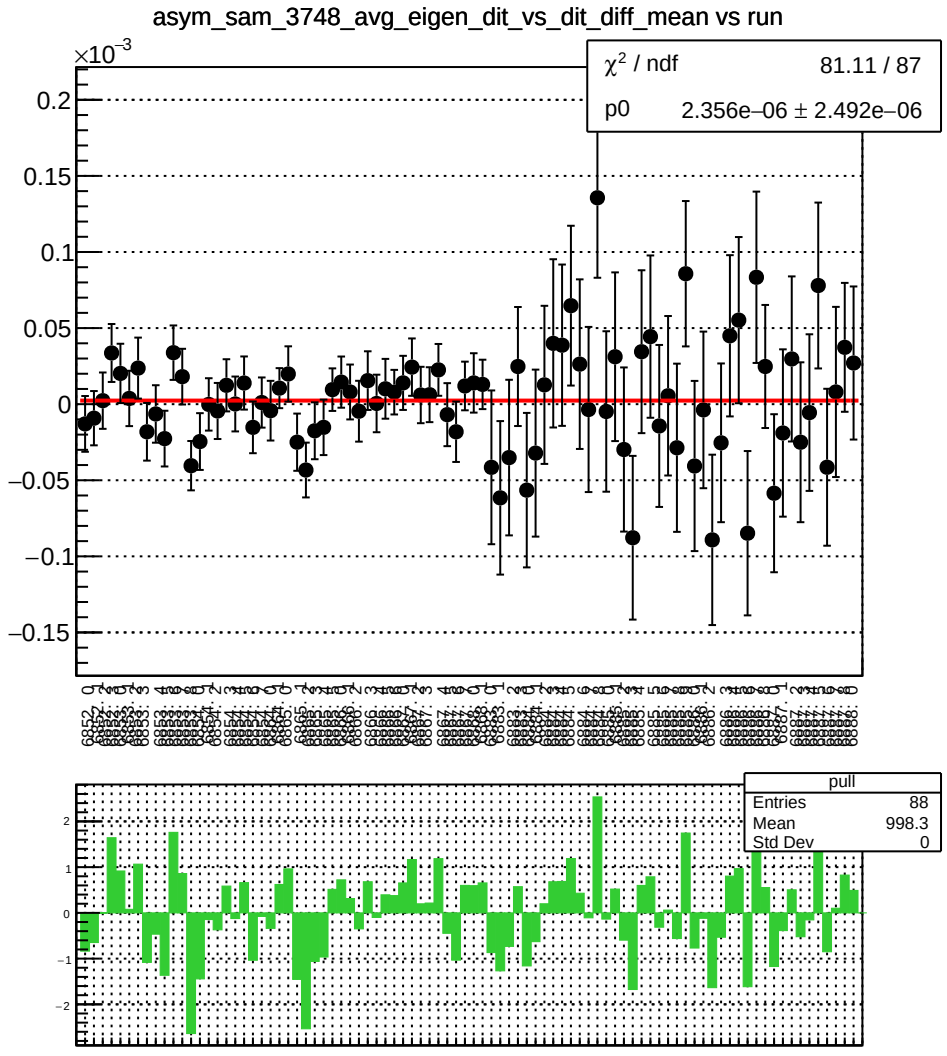

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.34 / 87
p0 0.1614 ± 0.05806
pull
Entries 88
Mean −6748
Std Dev 0
pull1D
Entries 88
Mean 0.0003675
Std Dev 0.9004

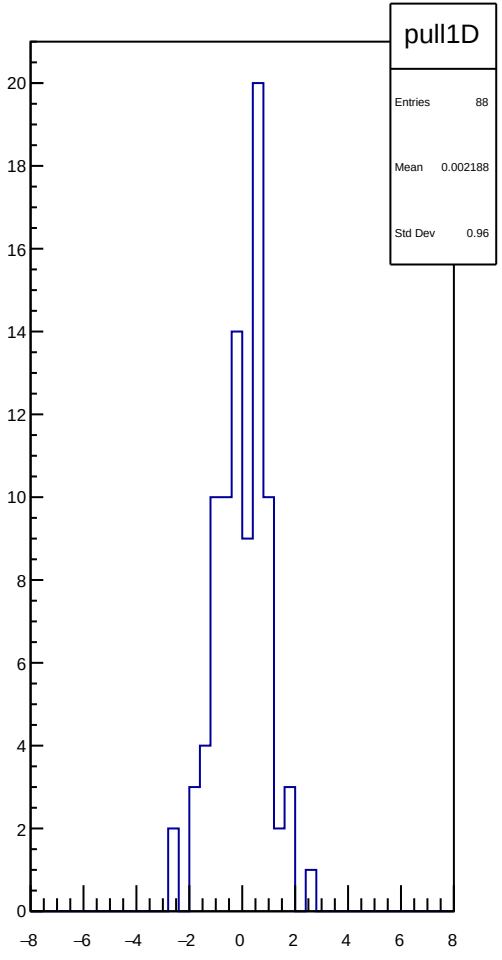

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.474e+05 / 87
p0 51 ± 0.04105
250
200
150
100
50

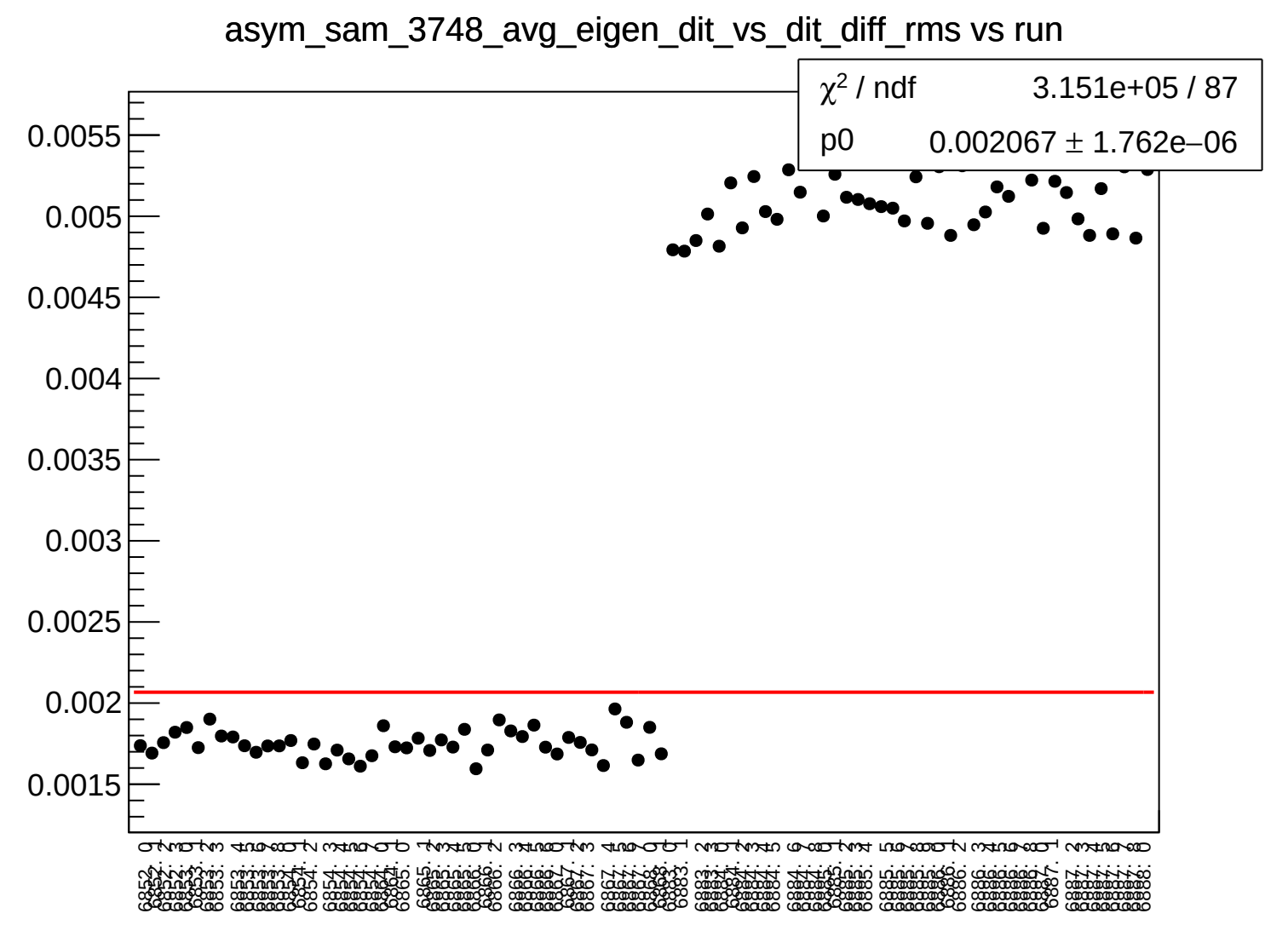

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.34 / 87
p0 0.1614 ± 0.05806
pull
Entries 88
Mean −6748
Std Dev 0

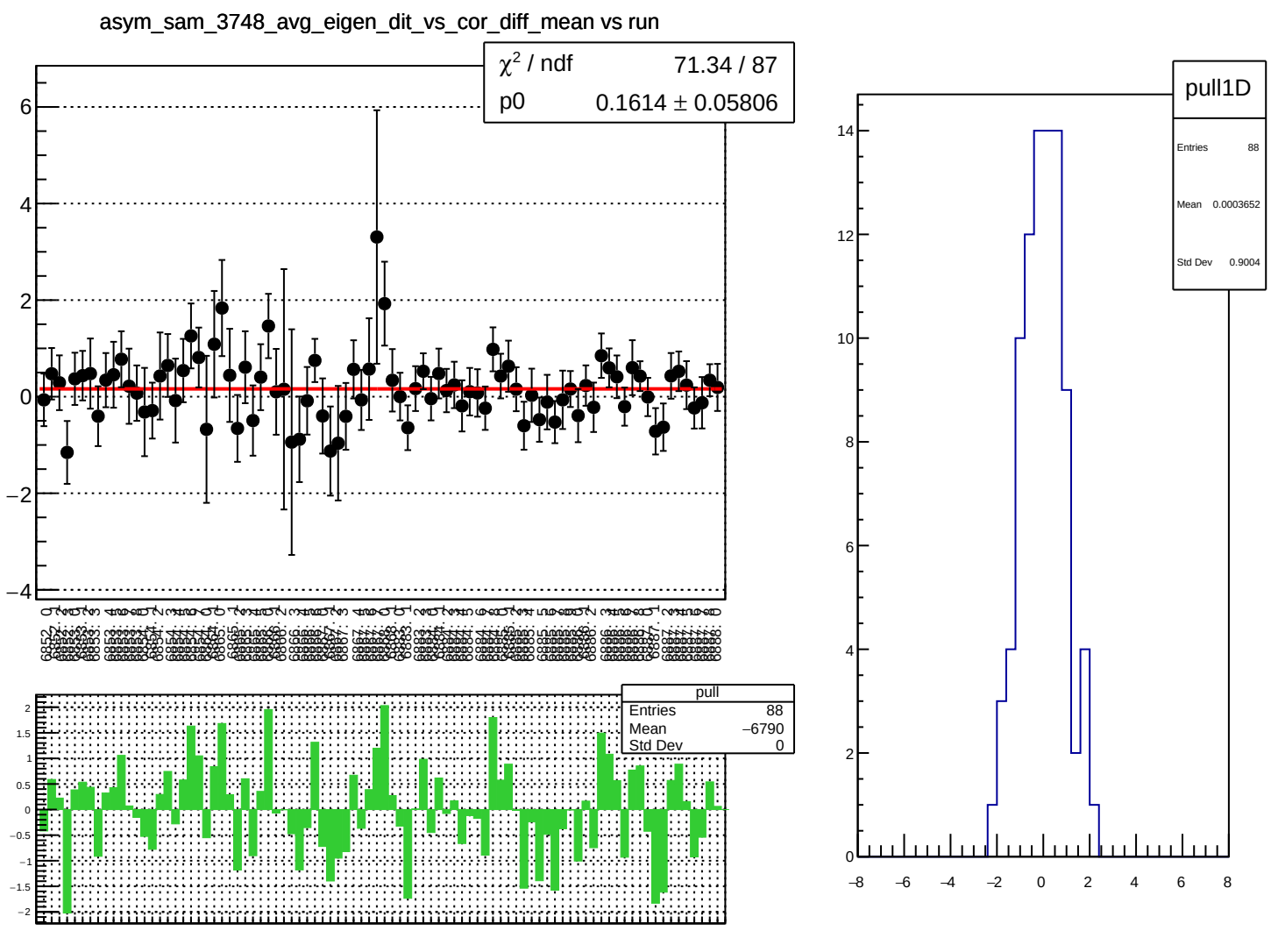

pull1D
Entries 88
Mean 0.0003675
Std Dev 0.9004

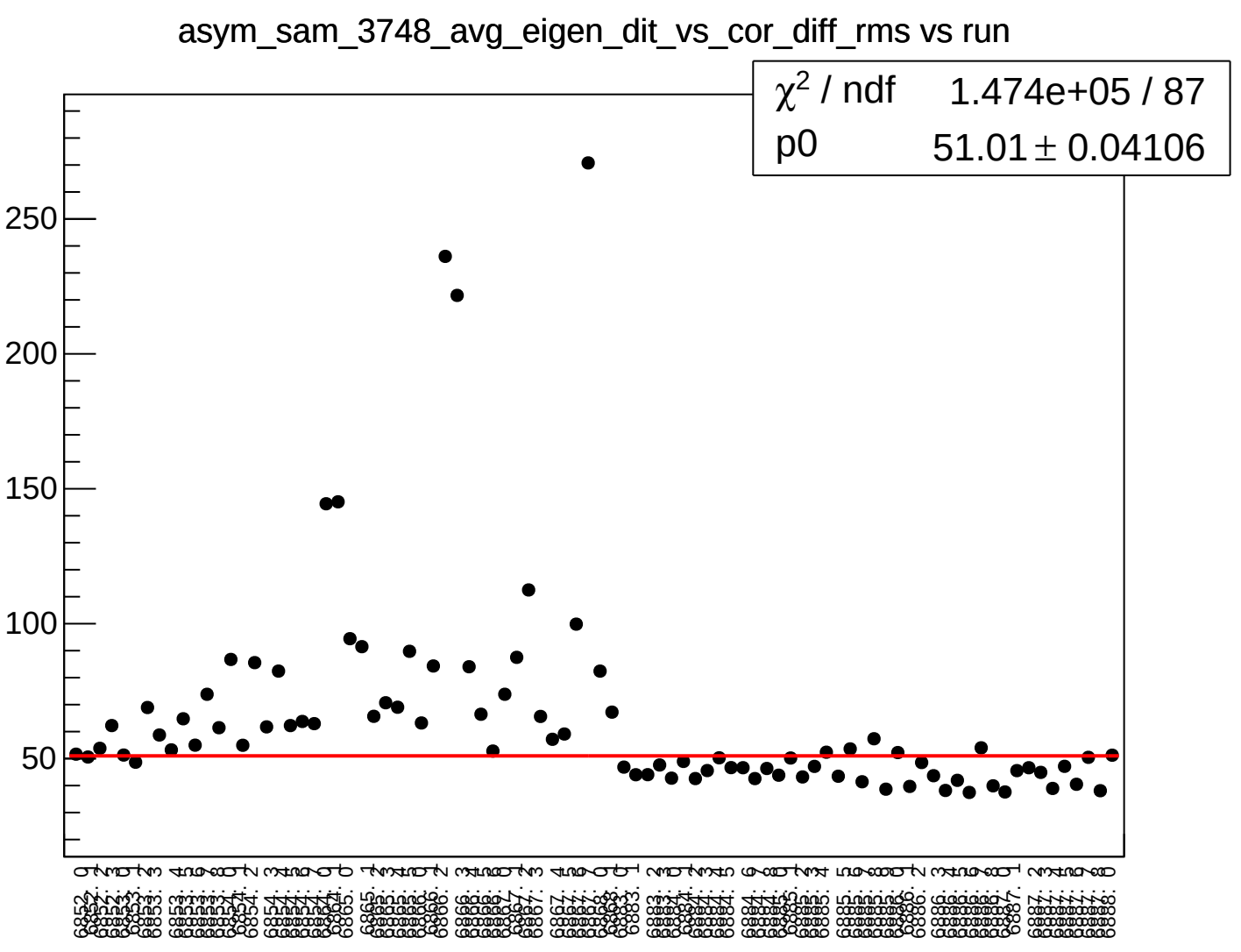

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.474e+05 / 87
p0 51 ± 0.04105
250
200
150
100
50

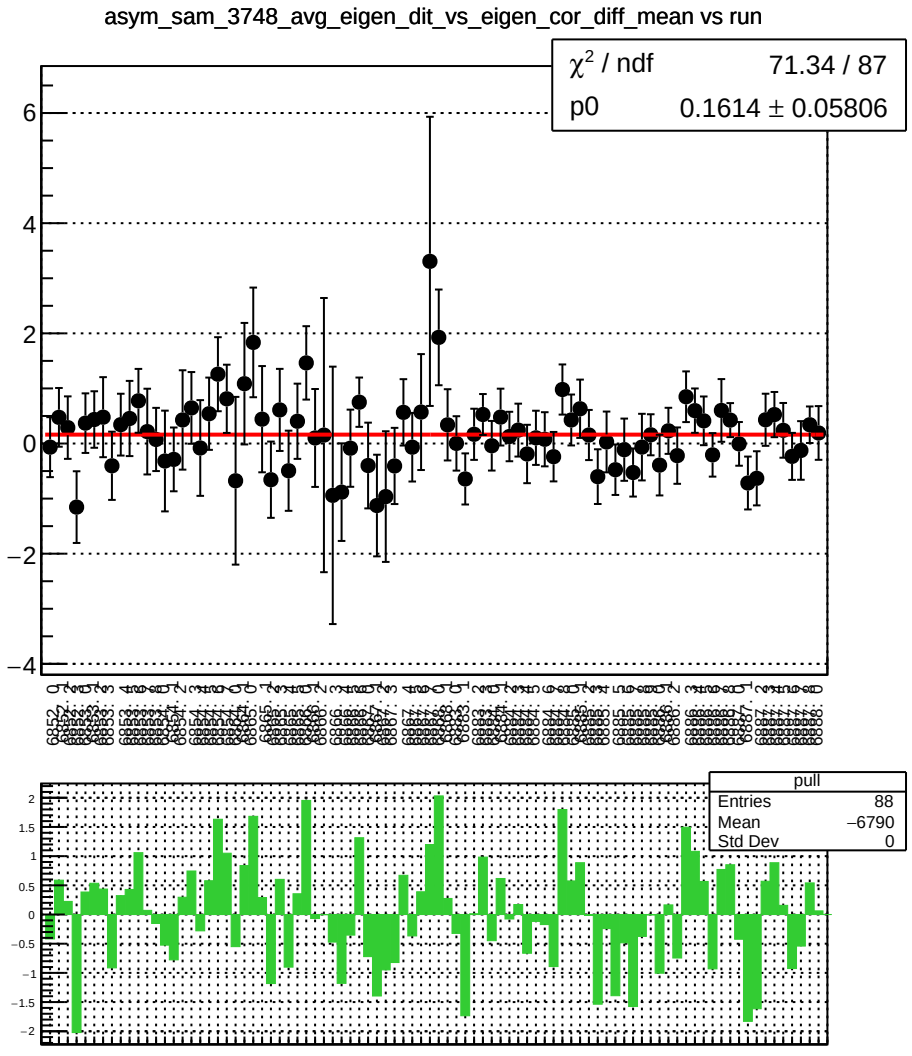

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 81.11 / 87
p0 2.356e−06 ± 2.492e−06
pull
Entries 88
Mean 998.3
Std Dev 0

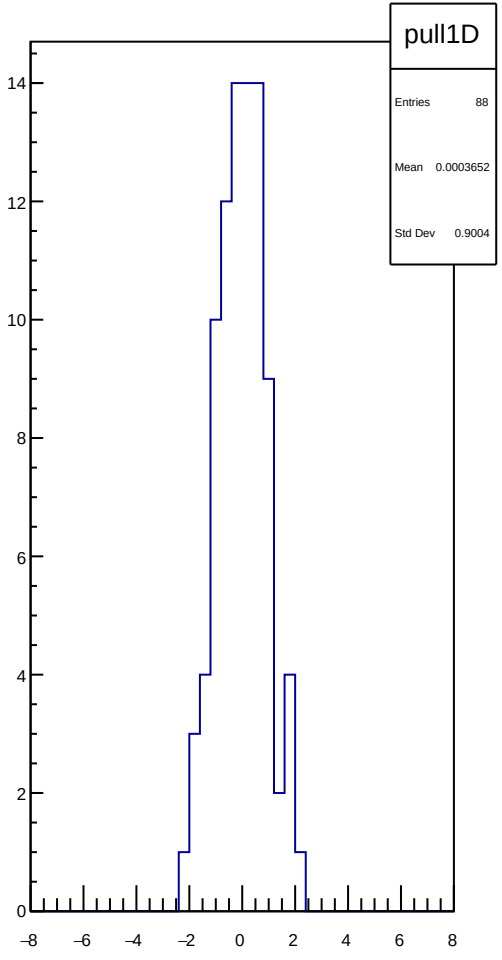

pull1D
Entries 88
Mean 0.002188
Std Dev 0.96

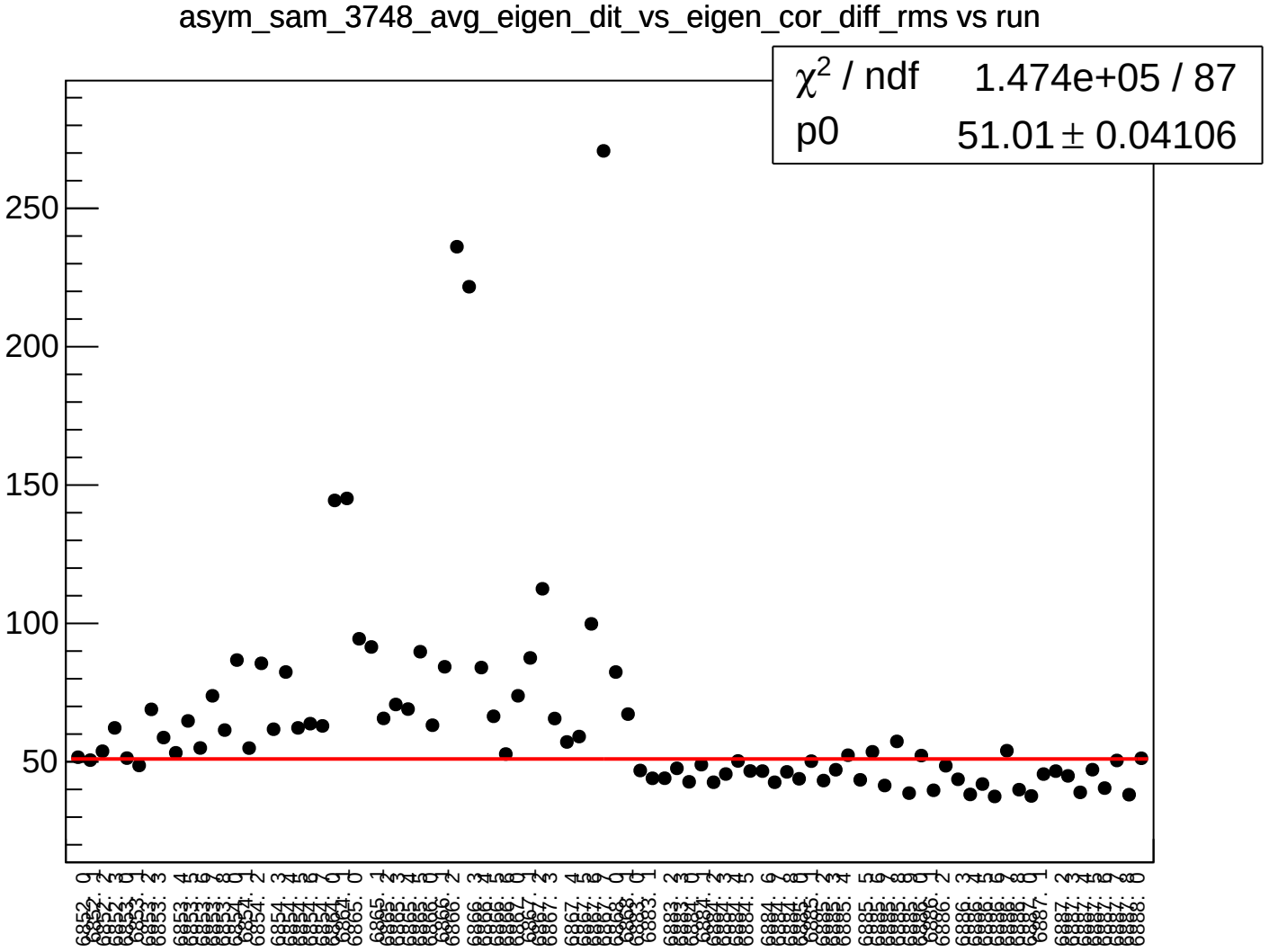

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.151e+05 / 87
p0 0.002067 ± 1.762e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

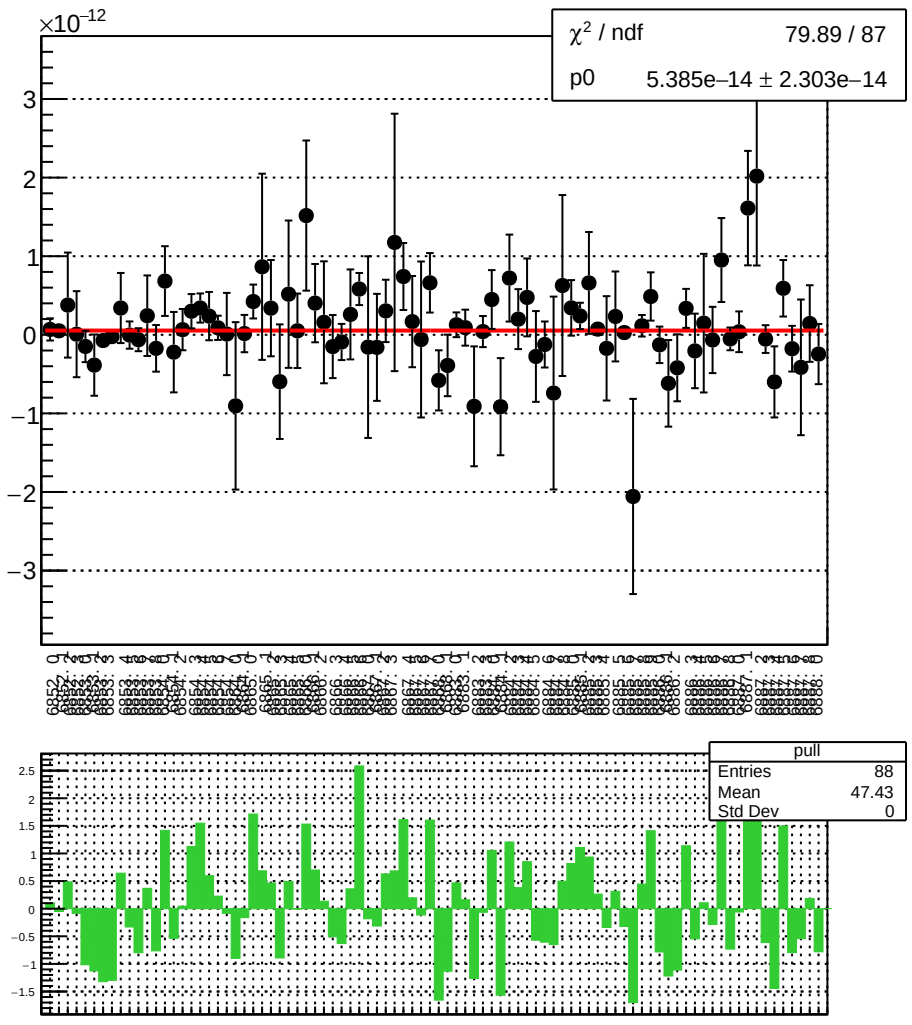

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.34 / 87
p0 0.1614 ± 0.05806
pull
Entries 88
Mean −6790
Std Dev 0
pull1D
Entries 88
Mean 0.0003652
Std Dev 0.9004

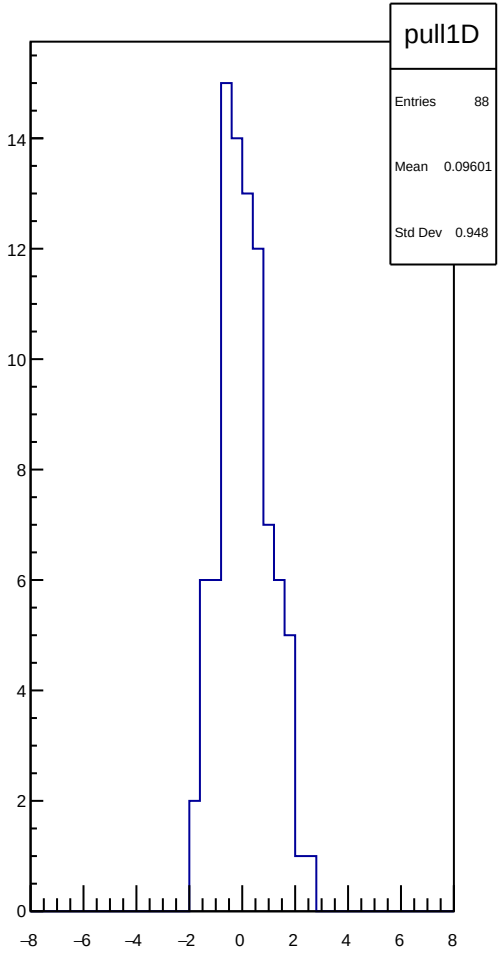

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.474e+05 / 87
p0 51.01 ± 0.04106
250
200
150
100
50

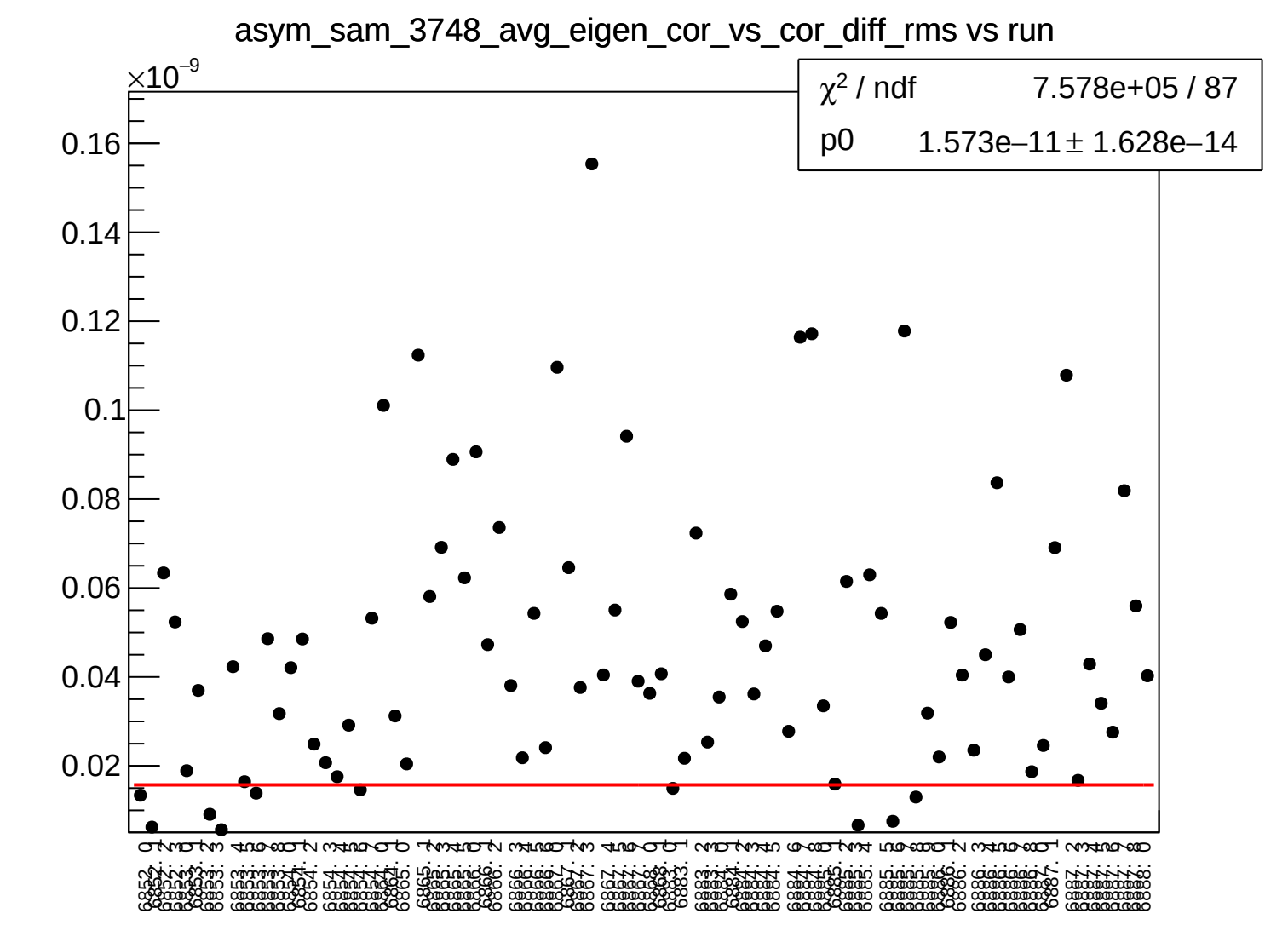

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.34 / 87
p0 0.1614 ± 0.05806
pull
Entries 88
Mean −6790
Std Dev 0

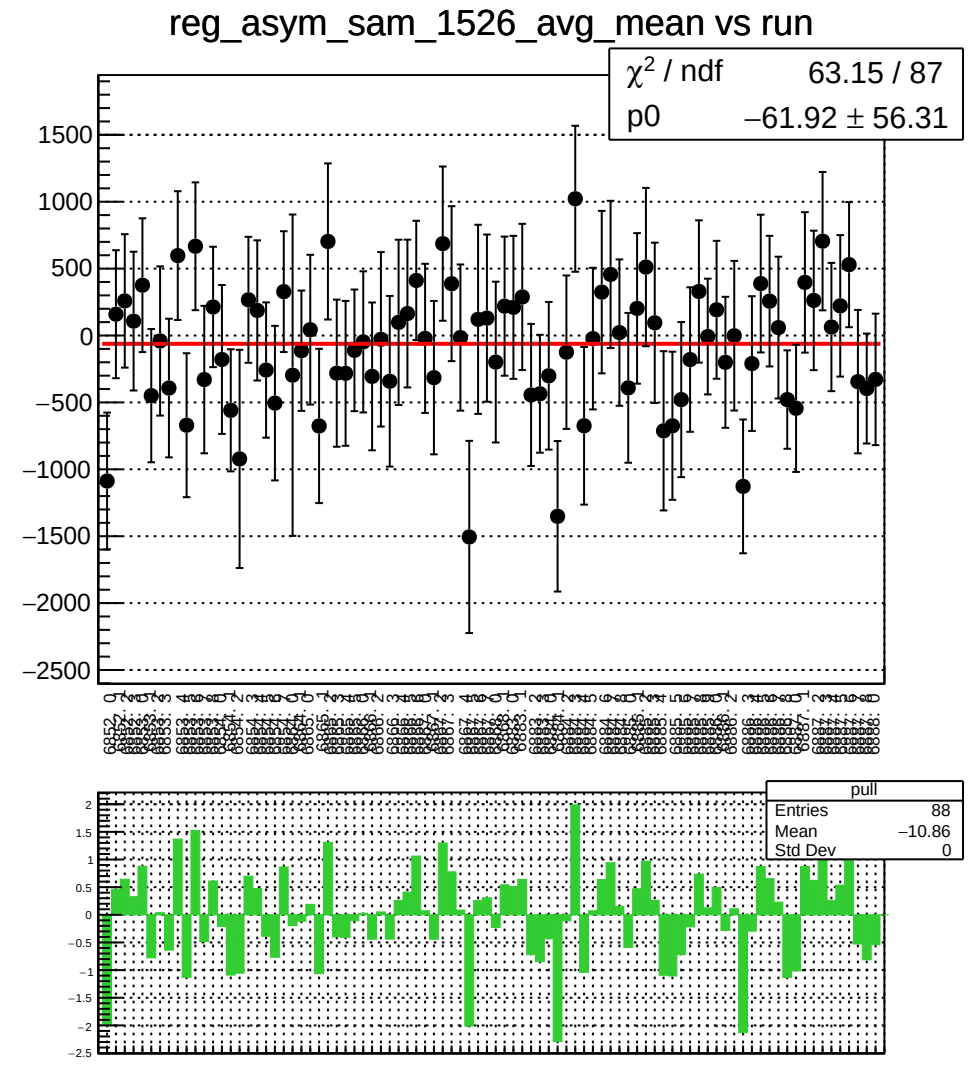

pull1D
Entries 88
Mean 0.0003652
Std Dev 0.9004

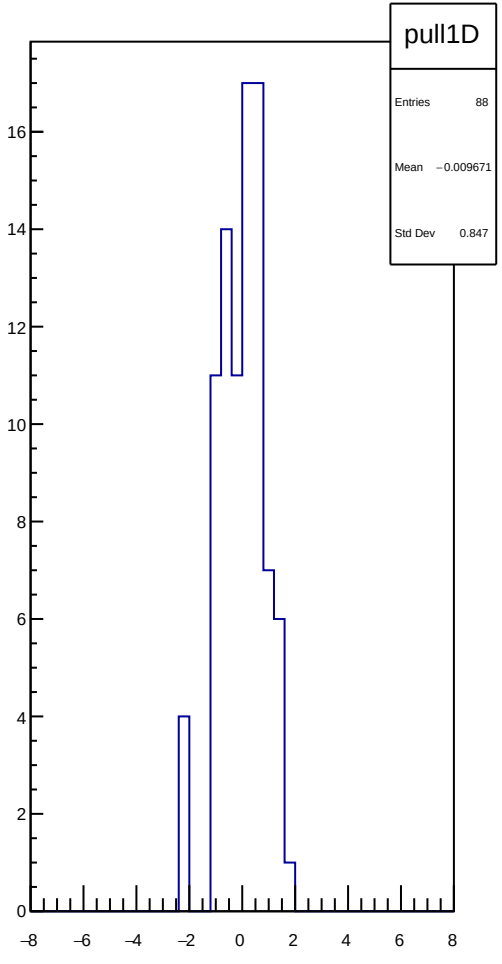

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.474e+05 / 87
p0 51.01 ± 0.04106
250
200
150
100
50

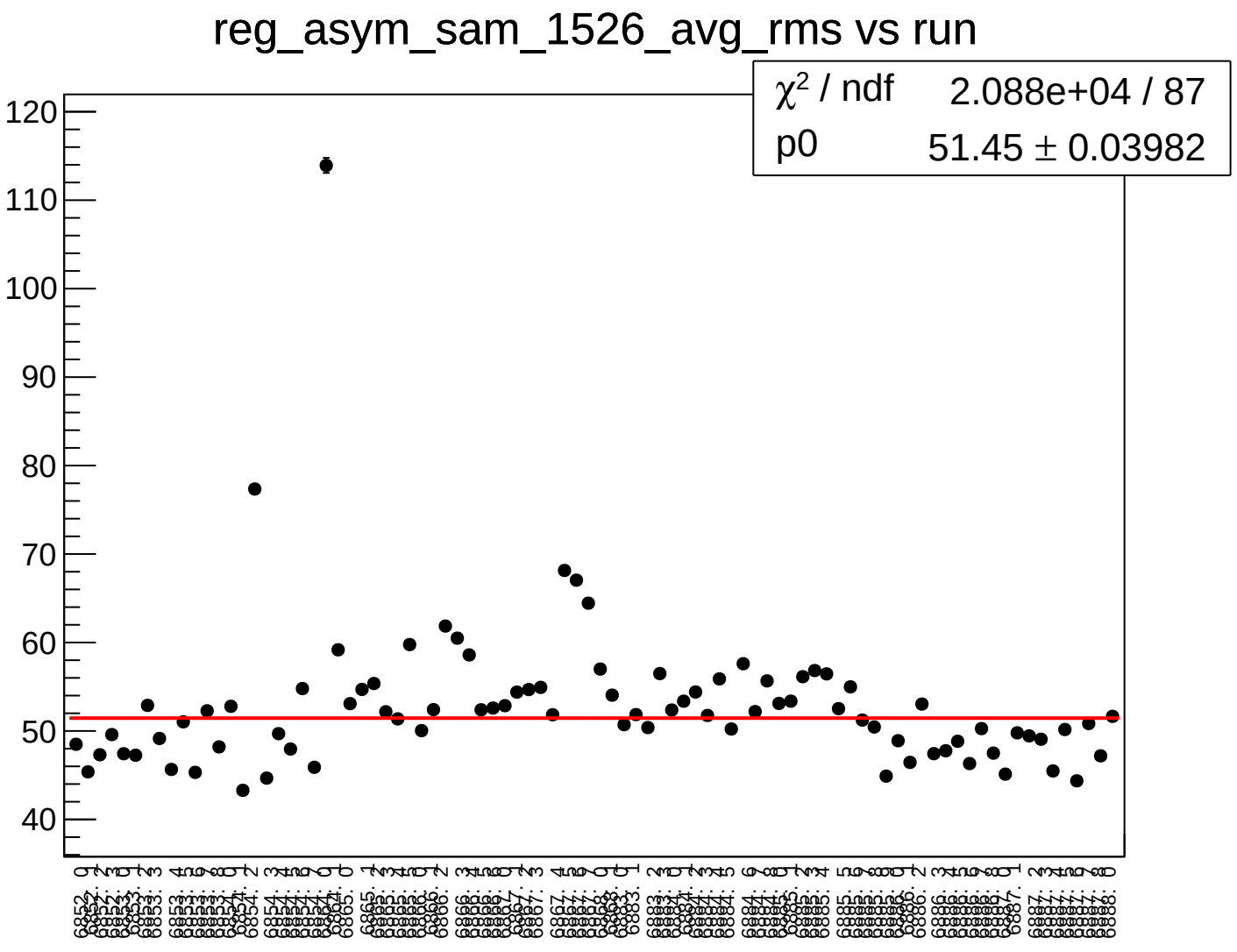

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.89 / 87
p0 5.385e−14 ± 2.303e−14
pull
Entries 88
Mean 47.43
Std Dev 0

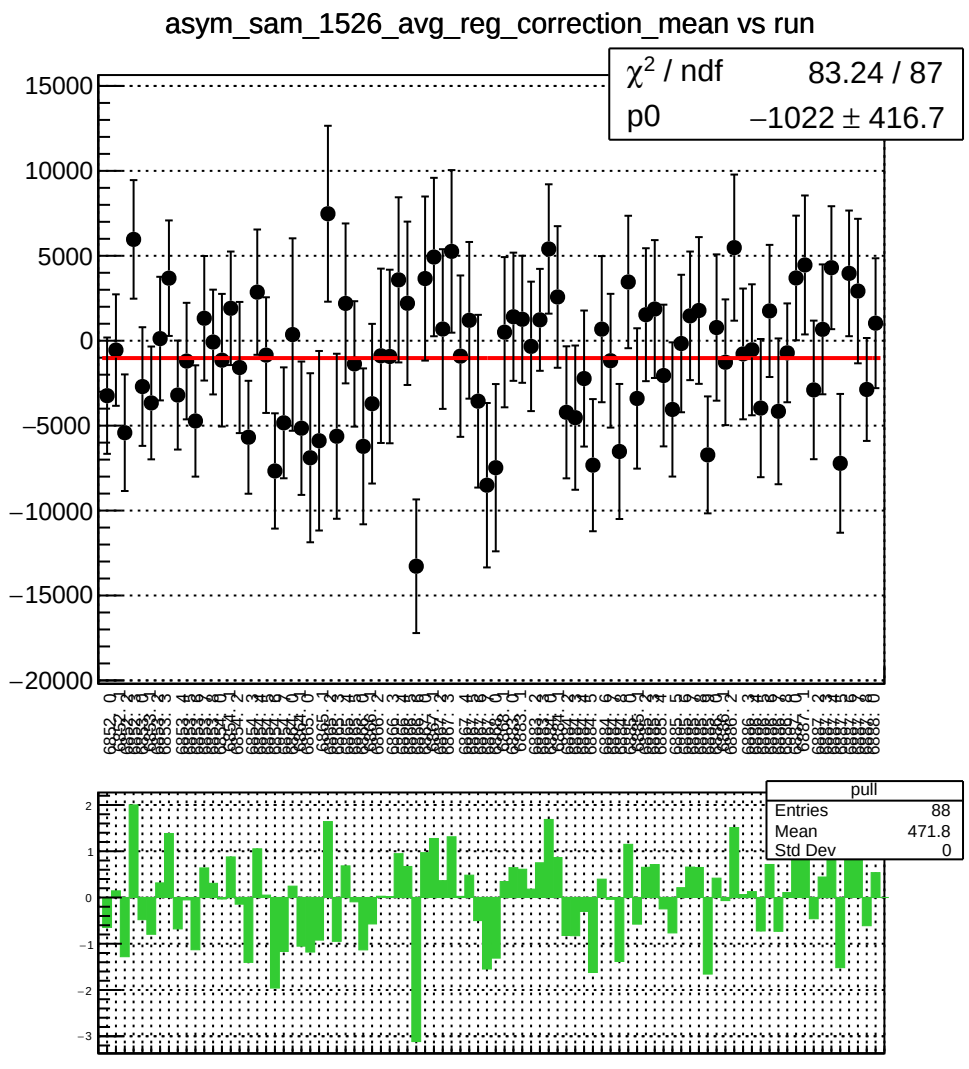

pull1D
Entries 88
Mean 0.09601
Std Dev 0.948

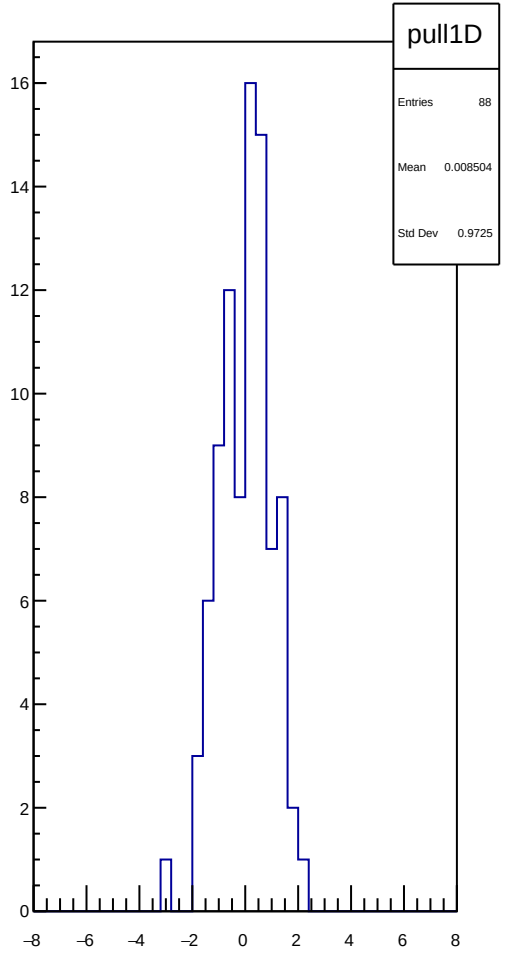

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.578e+05 / 87
p0 1.573e−11 ± 1.628e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

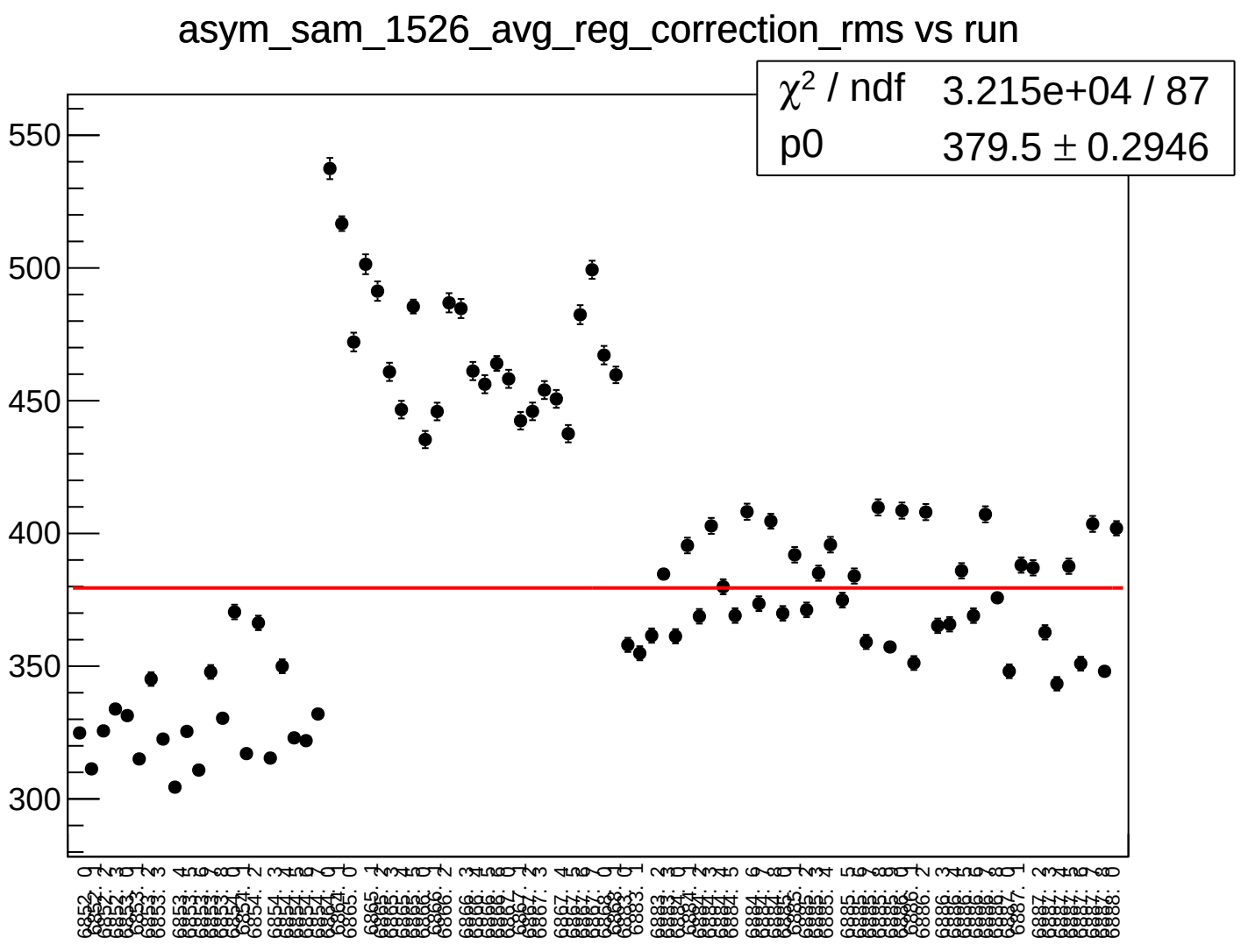

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 63.15 / 87
p0 −61.92 ± 56.31
pull
Entries 88
Mean −10.86
Std Dev 0

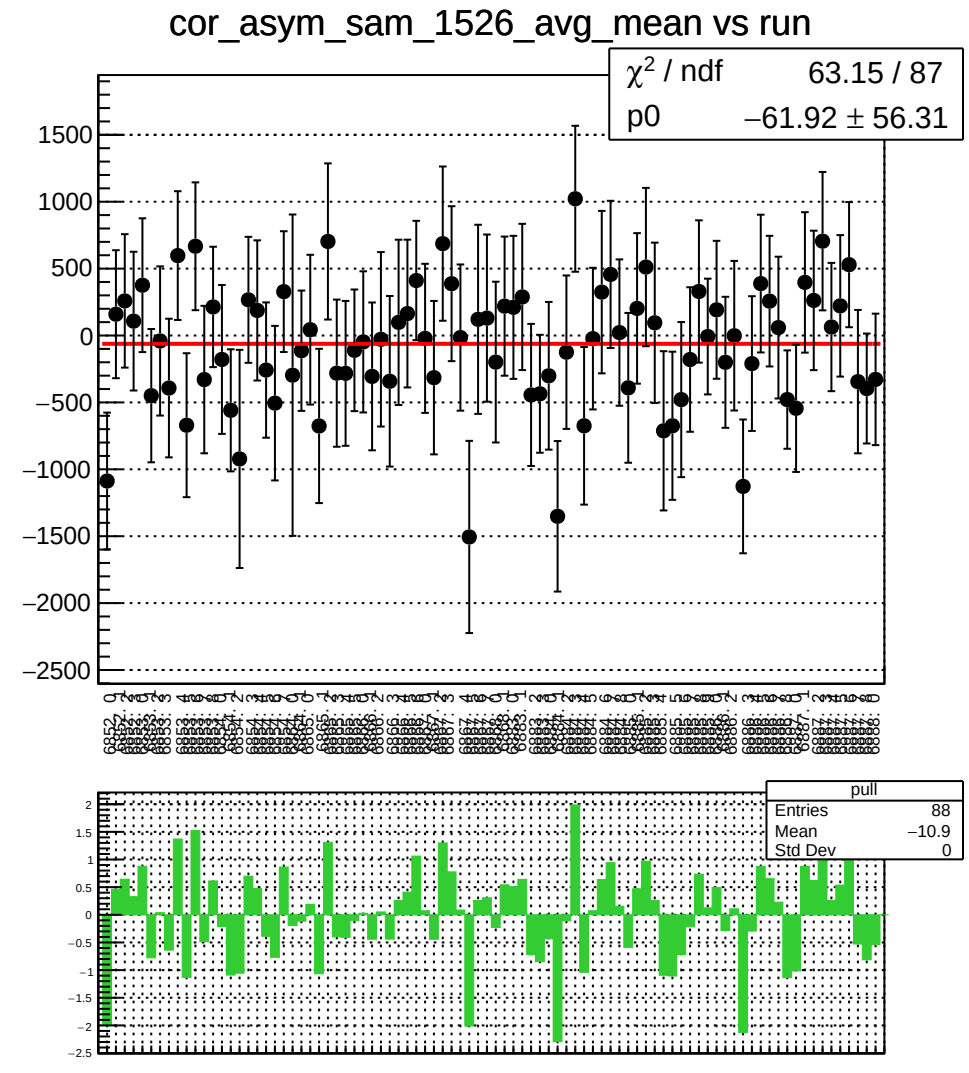

pull1D
Entries 88
Mean −0.009671
Std Dev 0.847

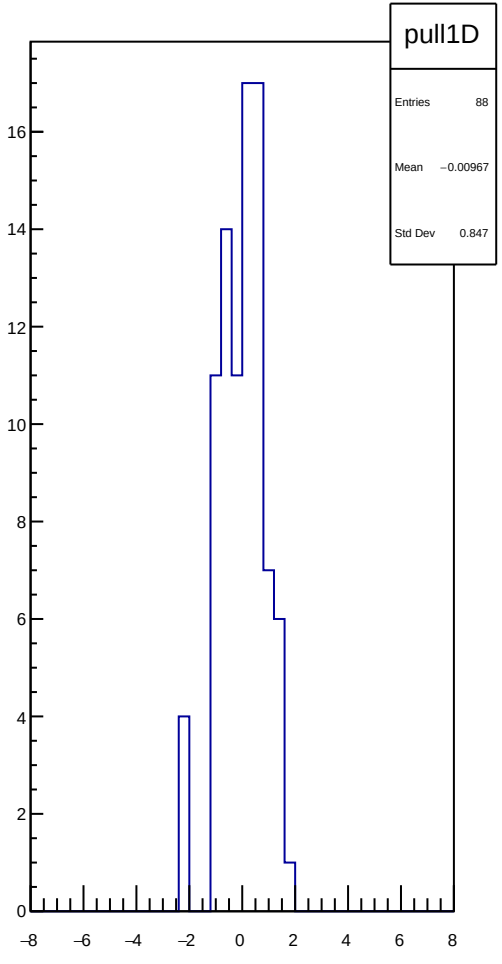

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.088e+04 / 87
p0 51.45 ± 0.03982
120
110
100
90
80
70
60
50
40

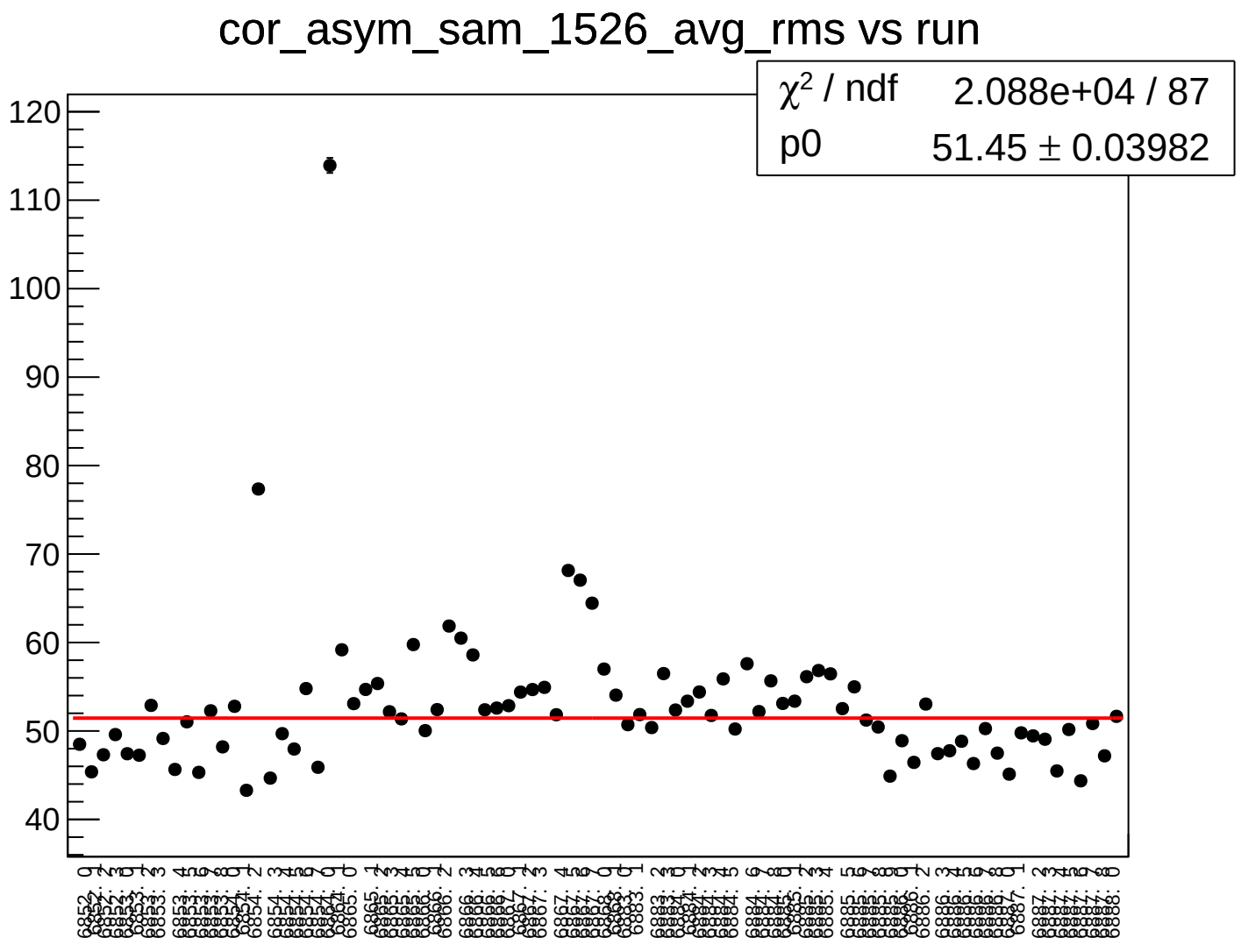

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 83.24 / 87
p0 −1022 ± 416.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 471.8
Std Dev 0
2
1
0
−1
−2
−3

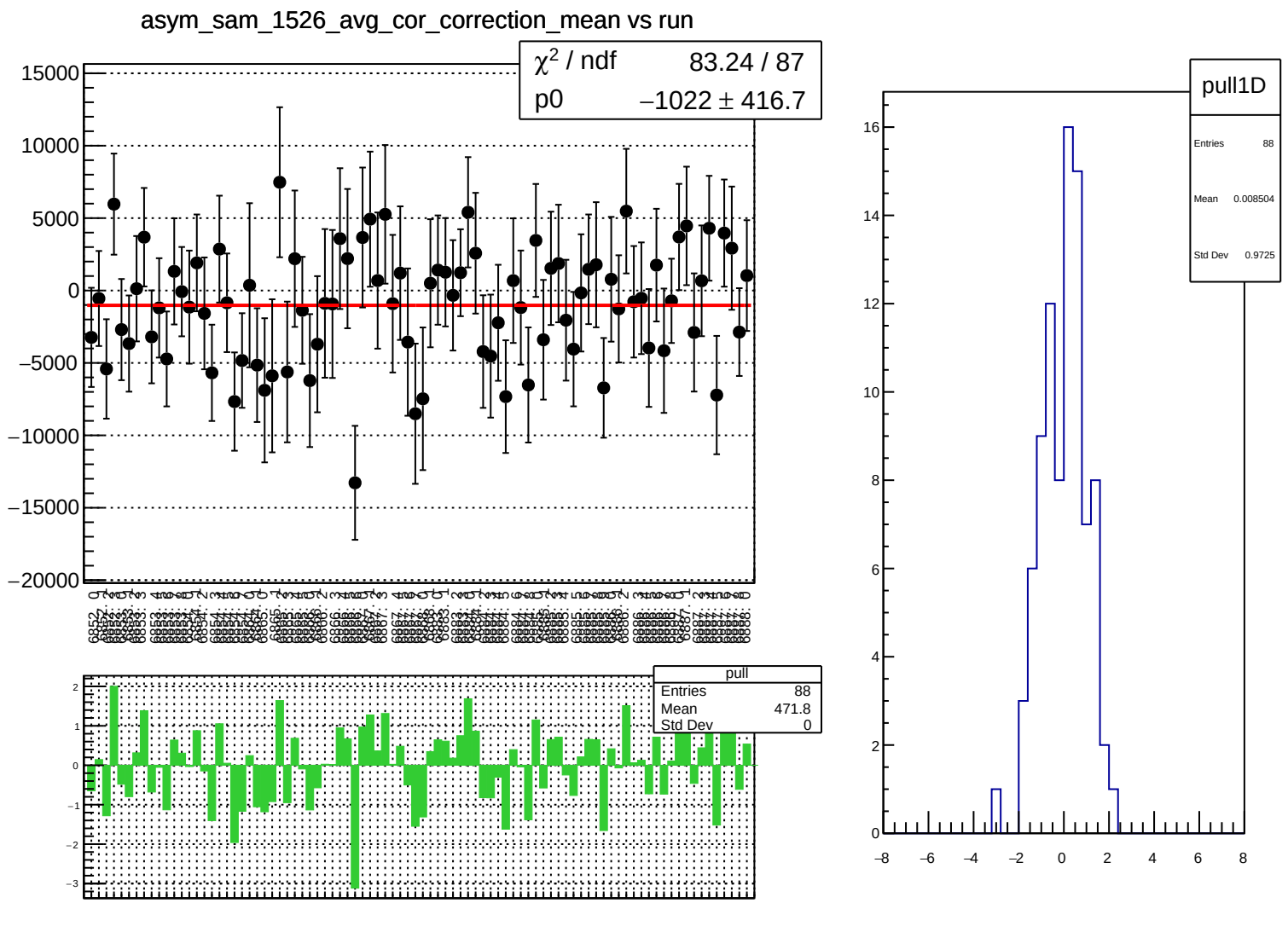

pull1D
Entries 88
Mean 0.008504
Std Dev 0.9725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

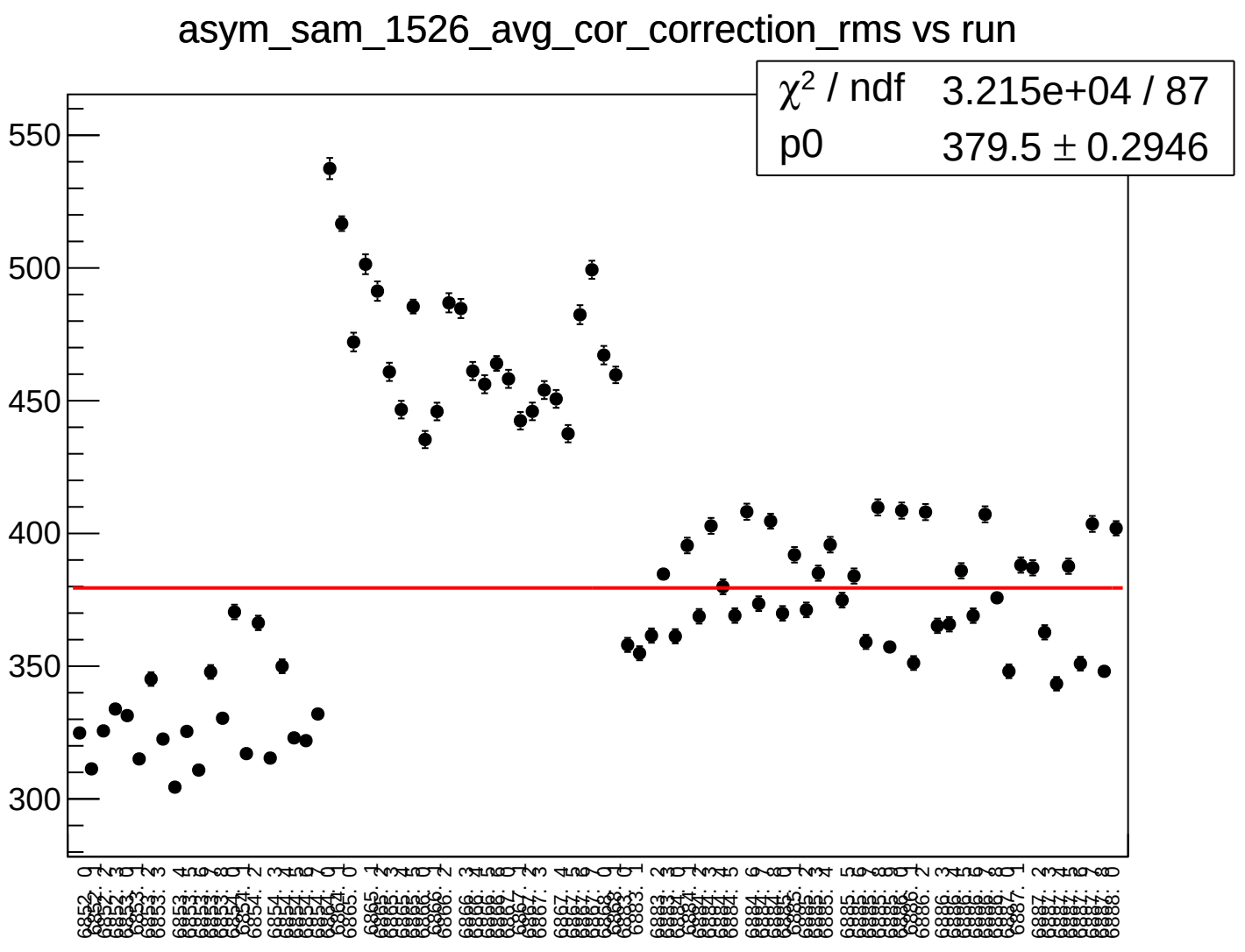

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 3.215e+04 / 87
p0 379.5 ± 0.2946
550
500
450
400
350
300

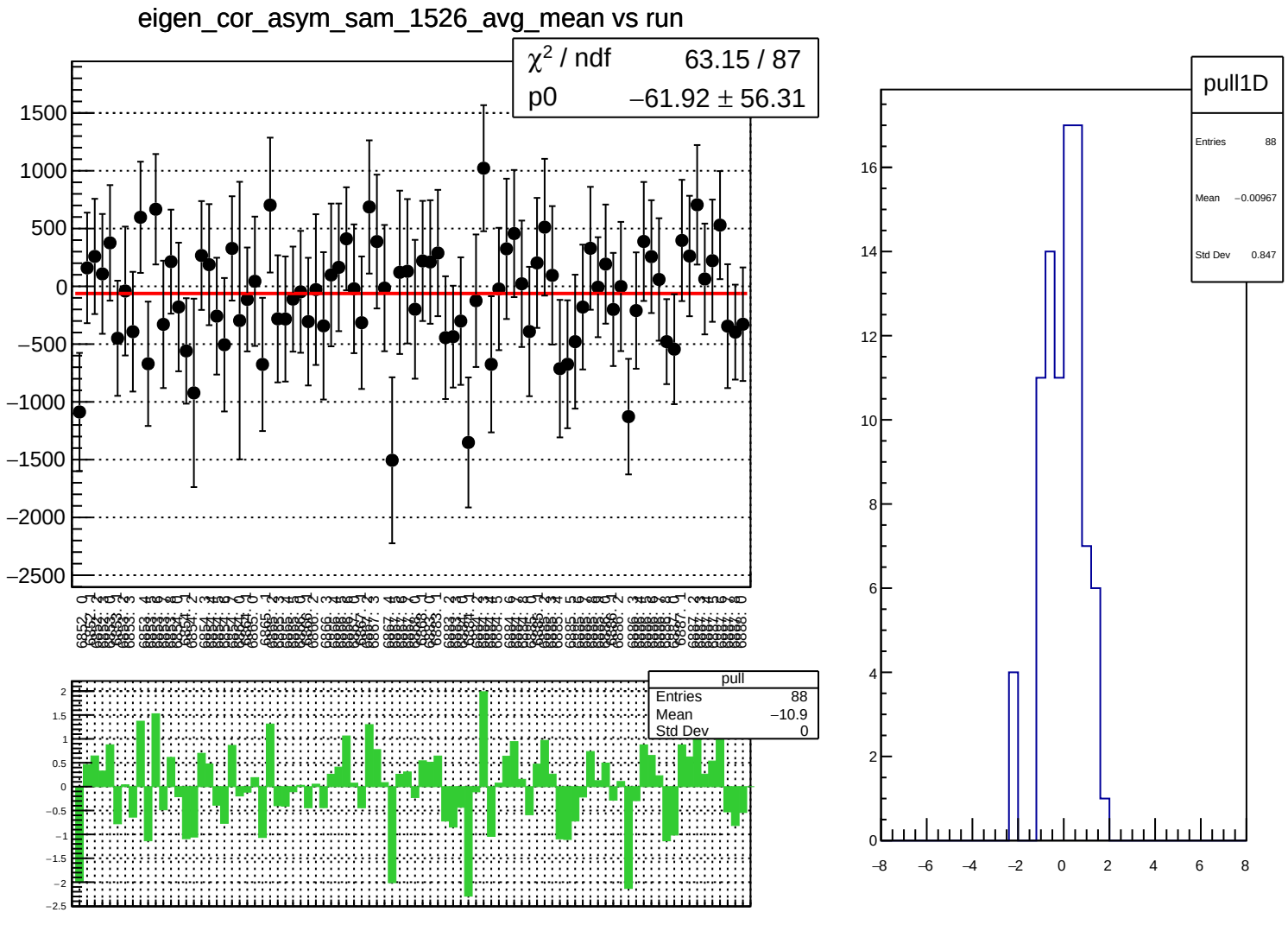

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 63.15 / 87
p0 −61.92 ± 56.31
pull
Entries 88
Mean −10.9
Std Dev 0

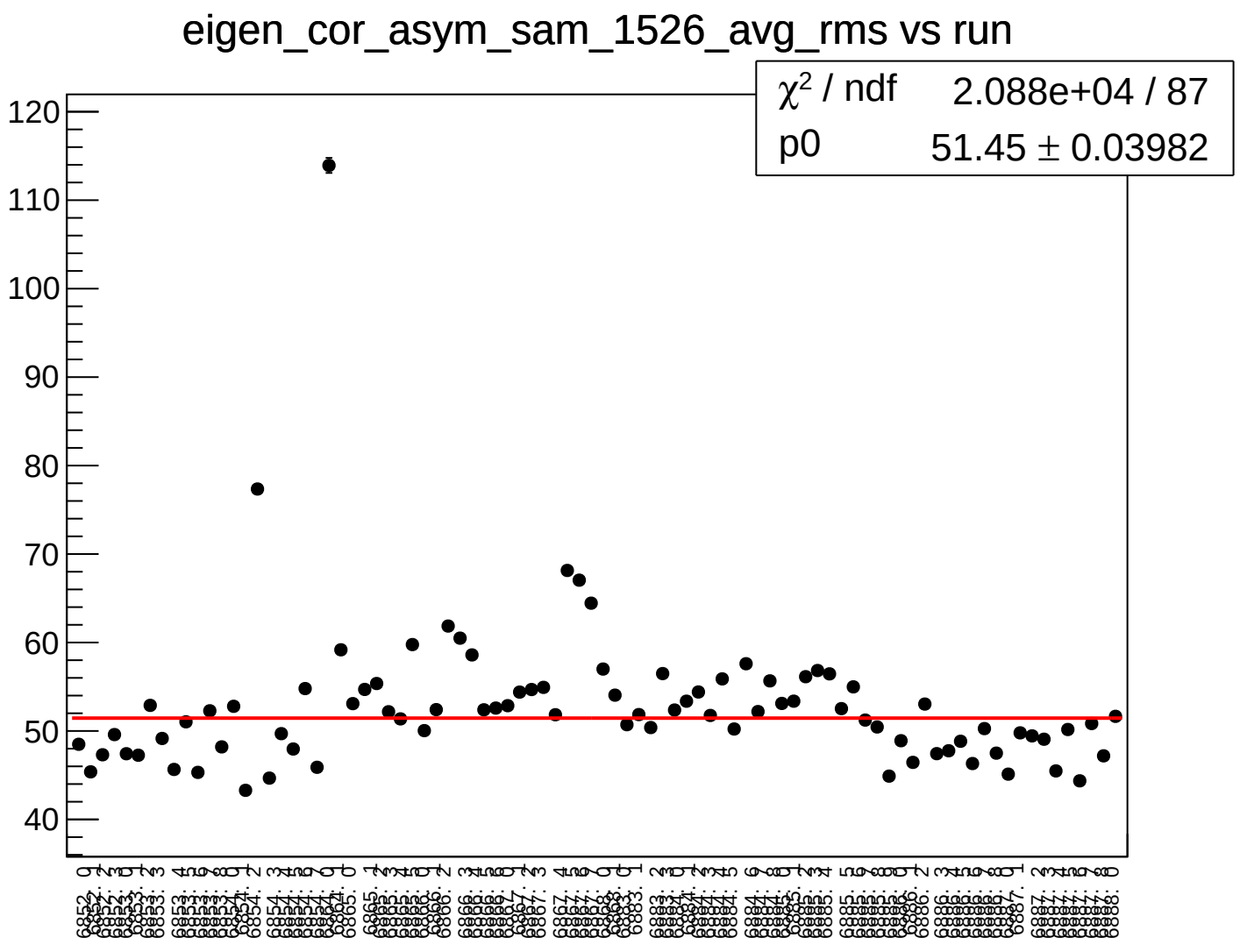

pull1D
Entries 88
Mean −0.00967
Std Dev 0.847

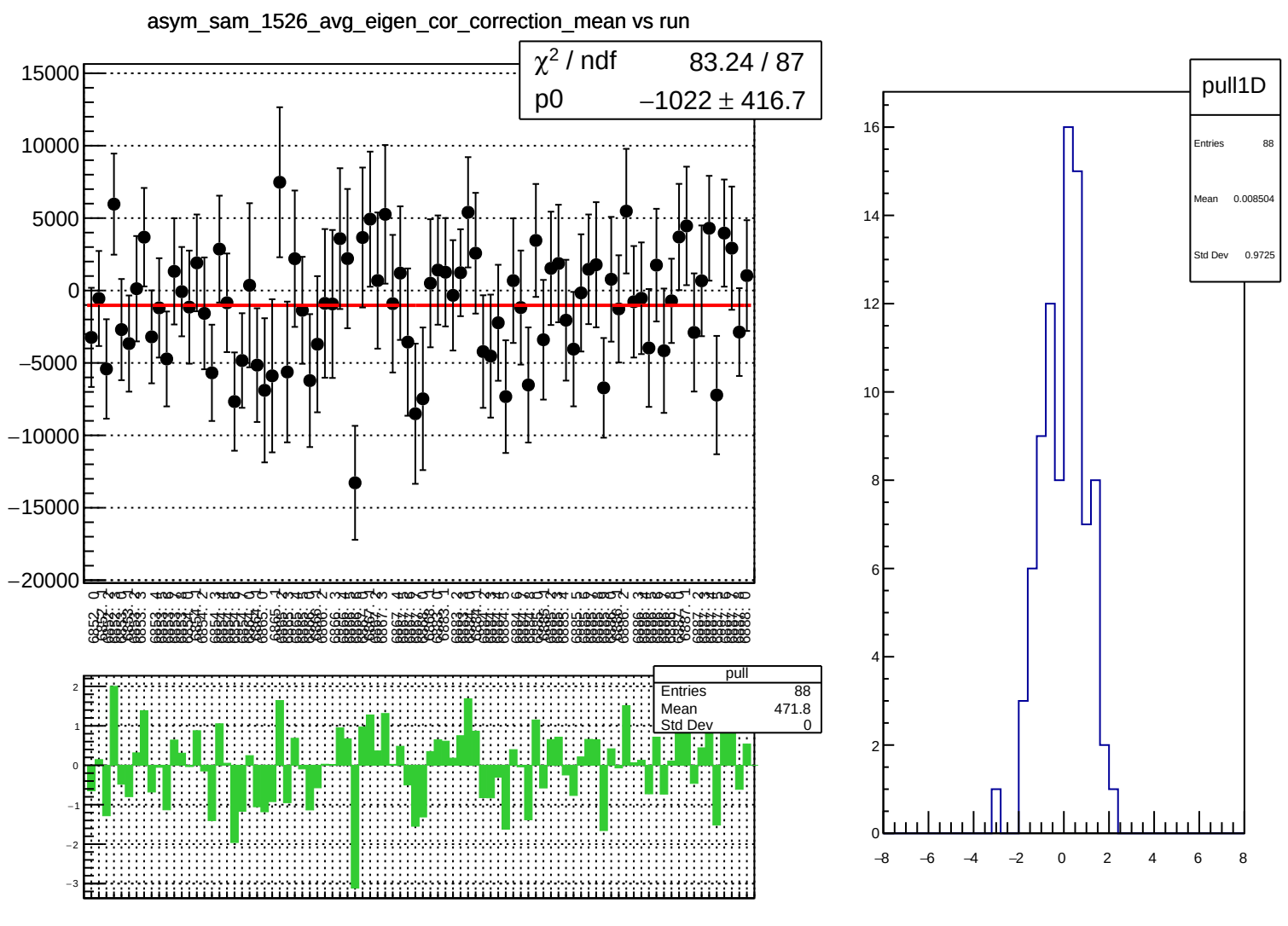

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.088e+04 / 87
p0 51.45 ± 0.03982
120
110
100
90
80
70
60
50
40

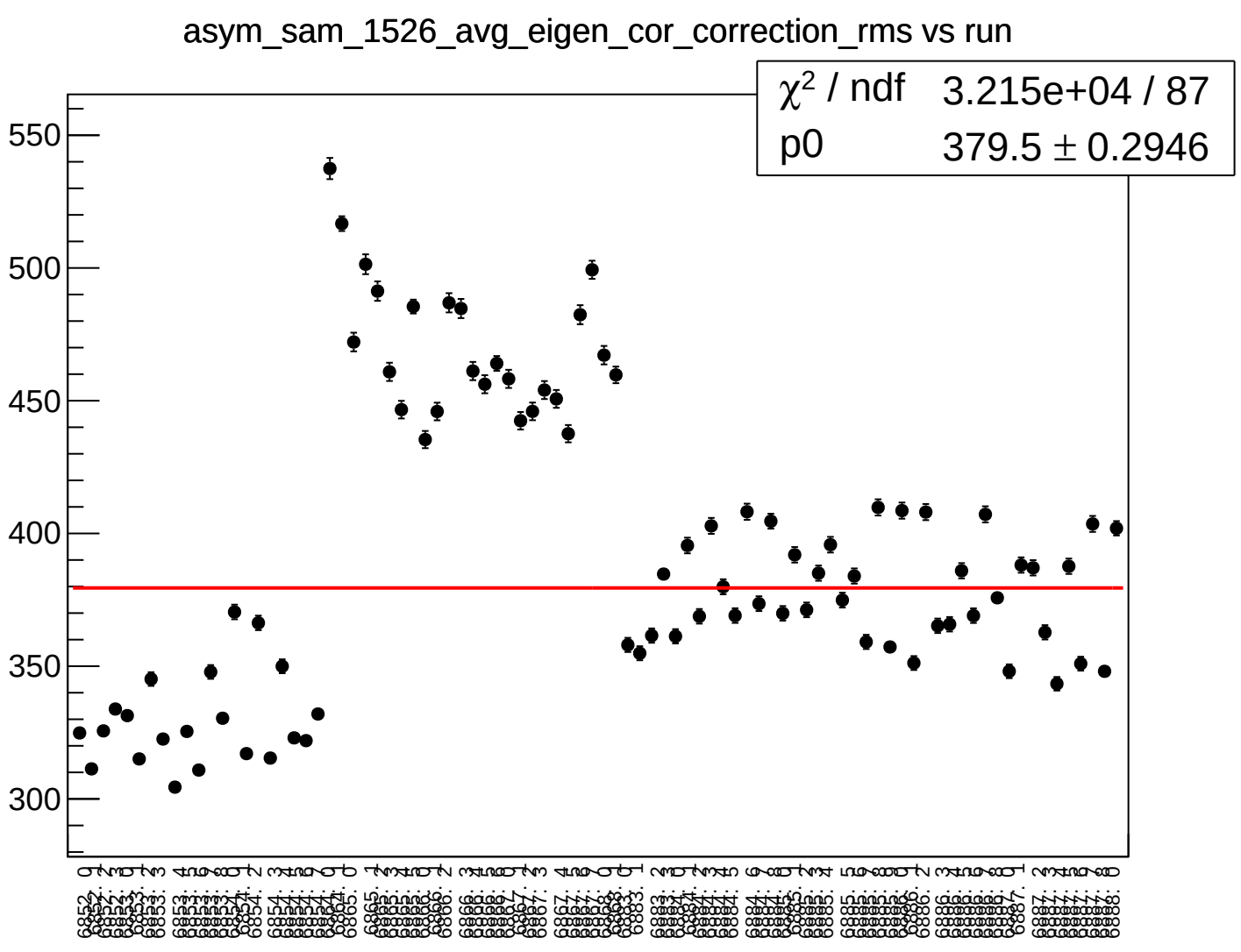

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 83.24 / 87
p0 −1022 ± 416.7
pull
Entries 88
Mean 471.8
Std Dev 0
pull1D
Entries 88
Mean 0.008504
Std Dev 0.9725

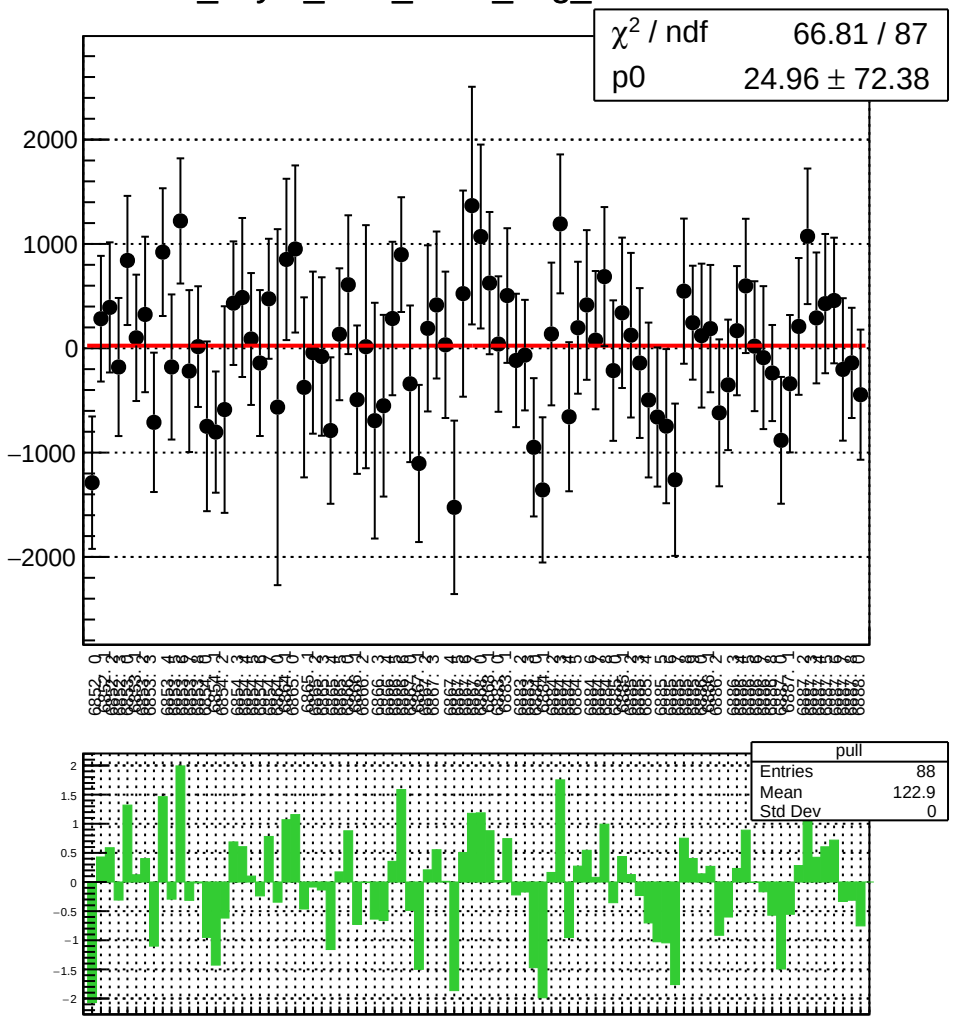

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 3.215e+04 / 87
p0 379.5 ± 0.2946
550
500
450
400
350
300

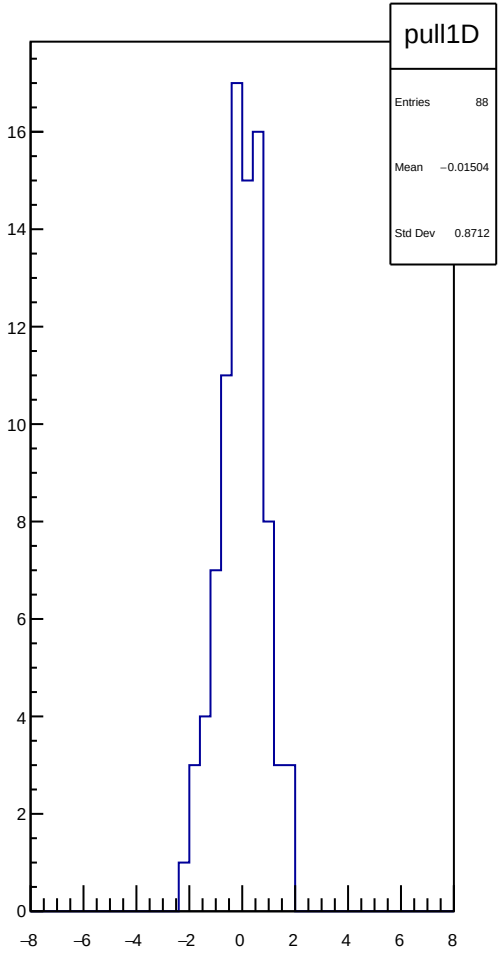

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 63.15 / 87
p0 −61.92 ± 56.31
pull
Entries 88
Mean −10.9
Std Dev 0
pull1D
Entries 88
Mean −0.00967
Std Dev 0.847

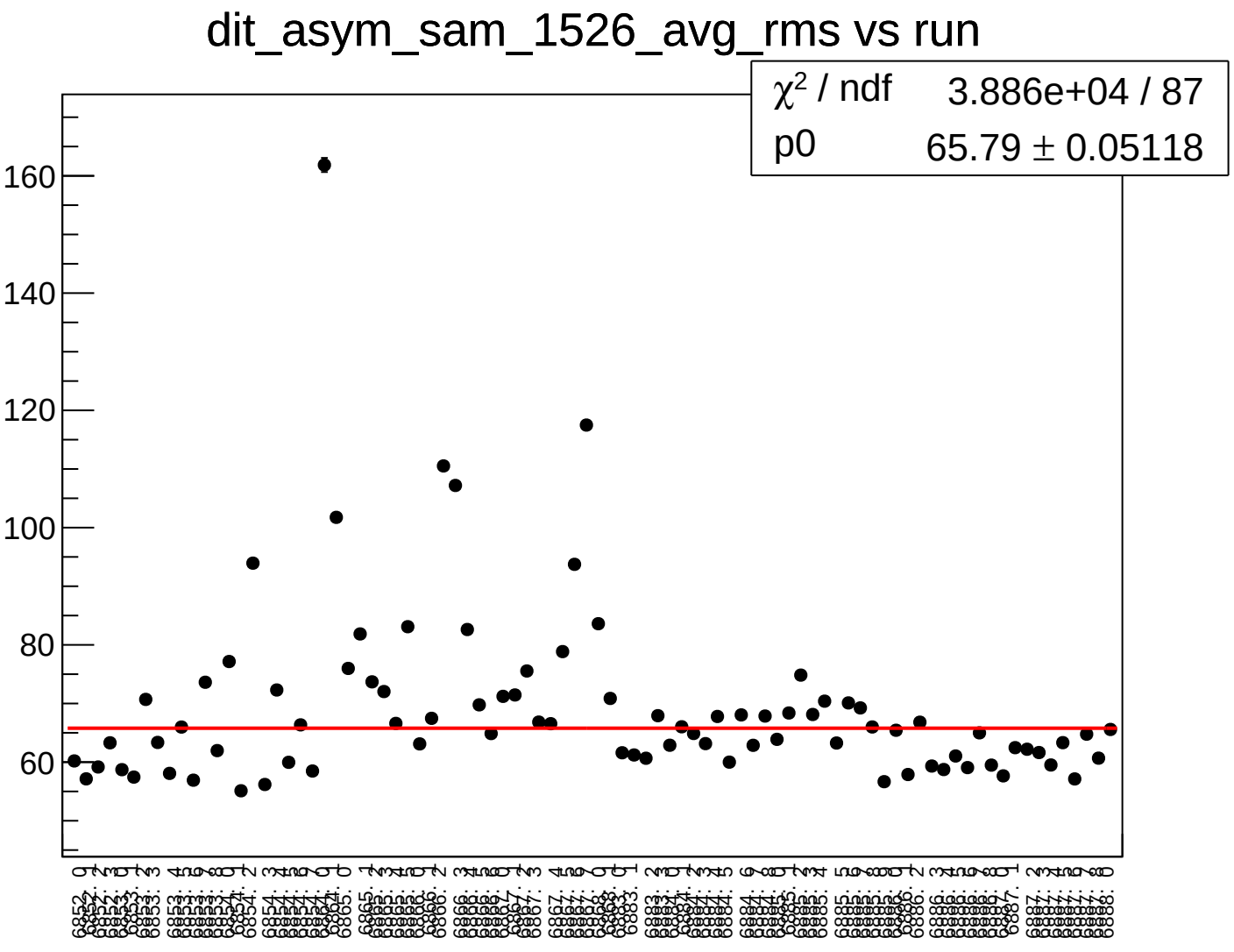

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 2.088e+04 / 87
p0 51.45 ± 0.03982
120
110
100
90
80
70
60
50
40

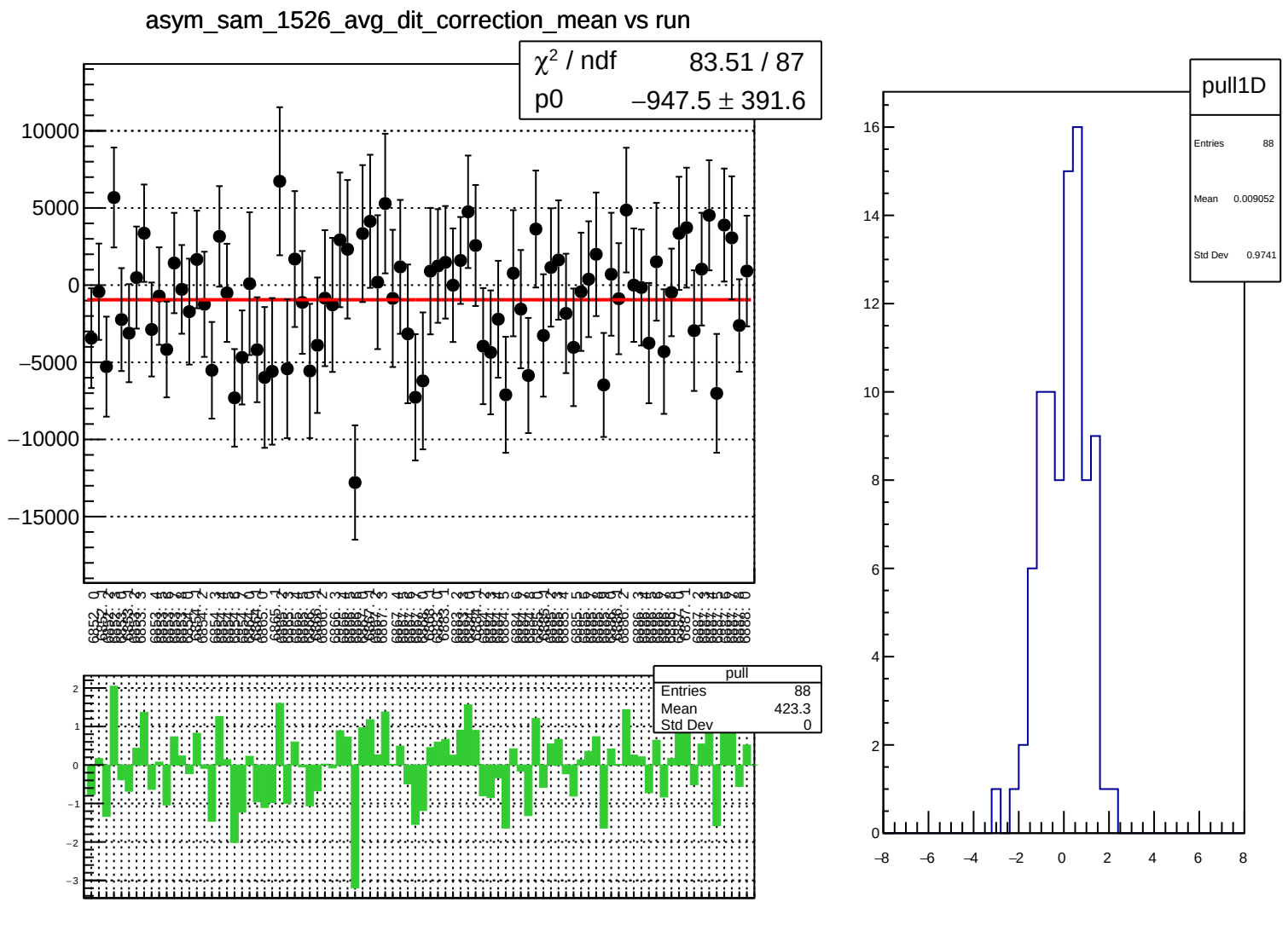

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.24 / 87
p0 −1022 ± 416.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 471.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.008504
Std Dev 0.9725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

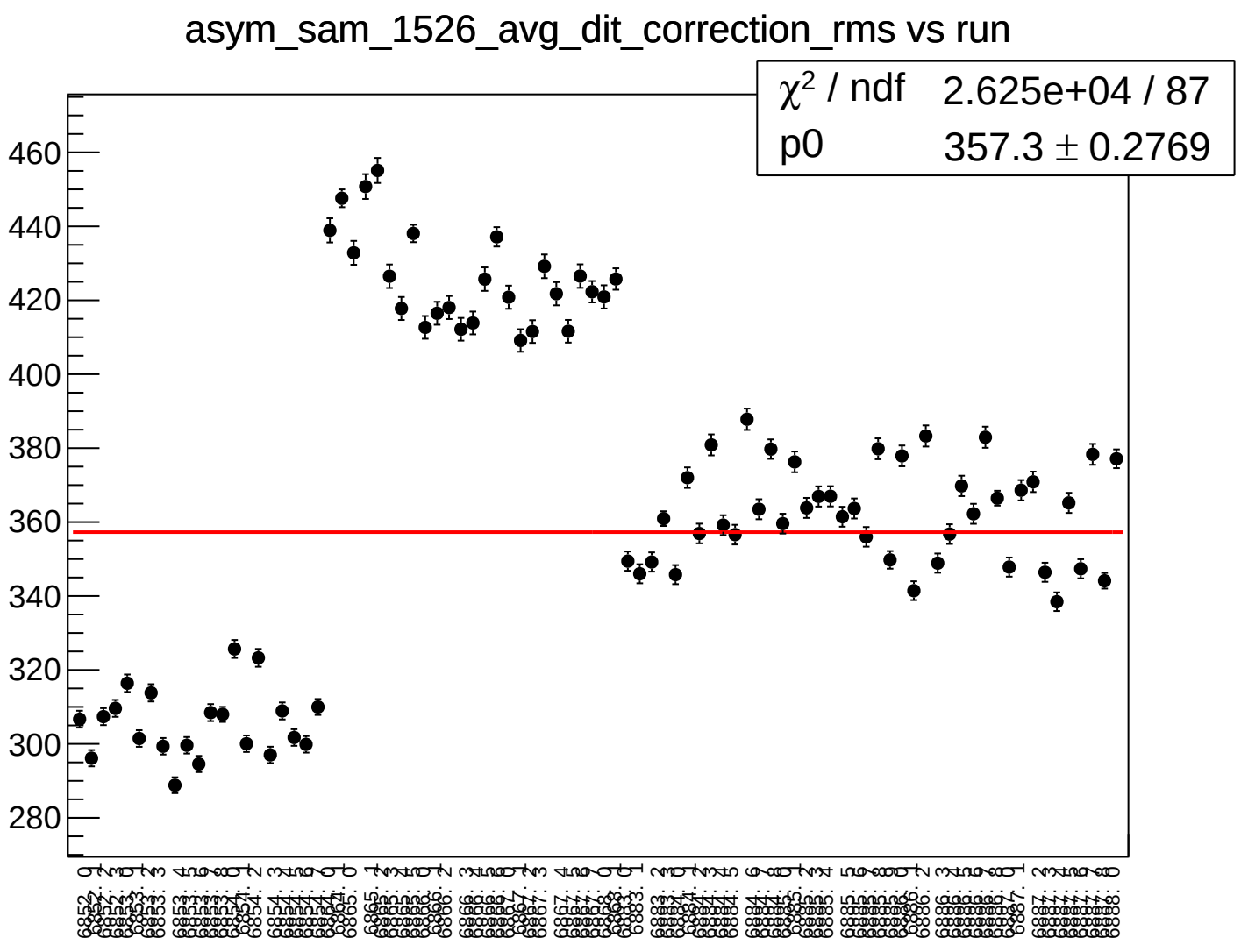

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.215e+04 / 87
p0 379.5 ± 0.2946
550
500
450
400
350
300

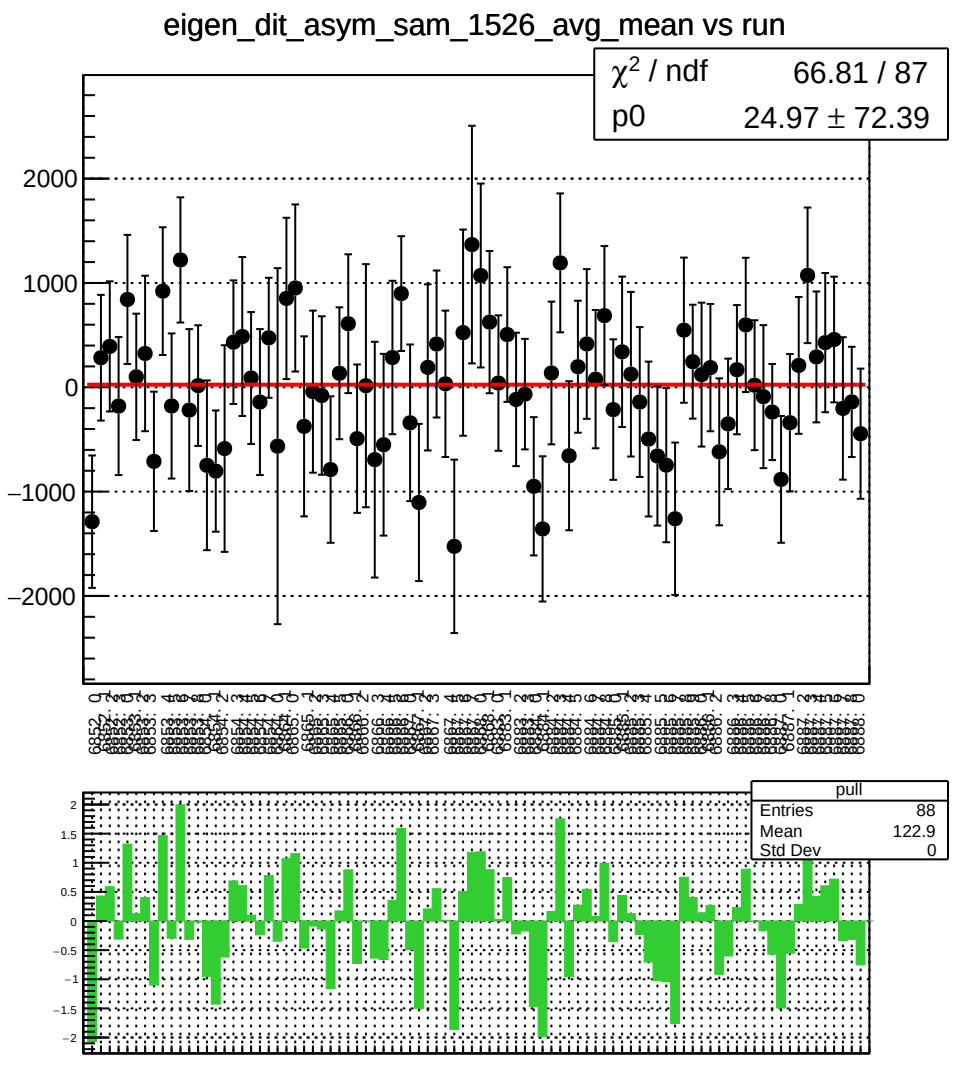

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 66.81 / 87
p0 24.96 ± 72.38
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 122.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

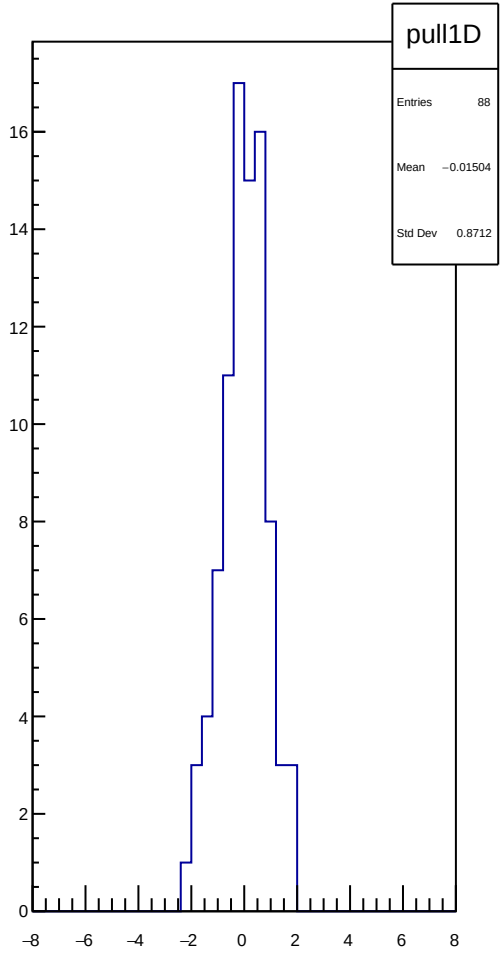

pull1D
Entries 88
Mean −0.01504
Std Dev 0.8712
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

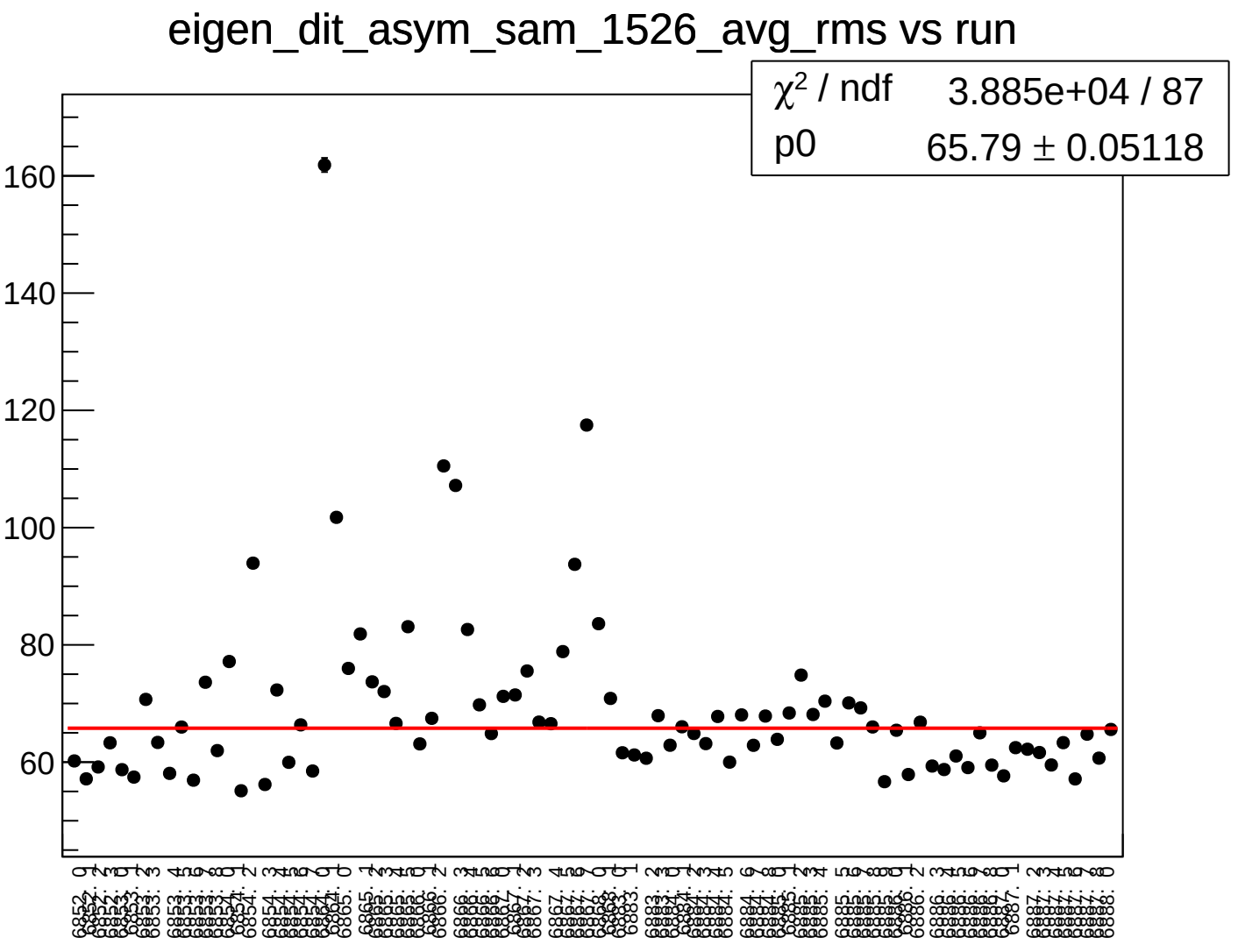

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.886e+04 / 87
p0 65.79 ± 0.05118
160
140
120
100
80
60

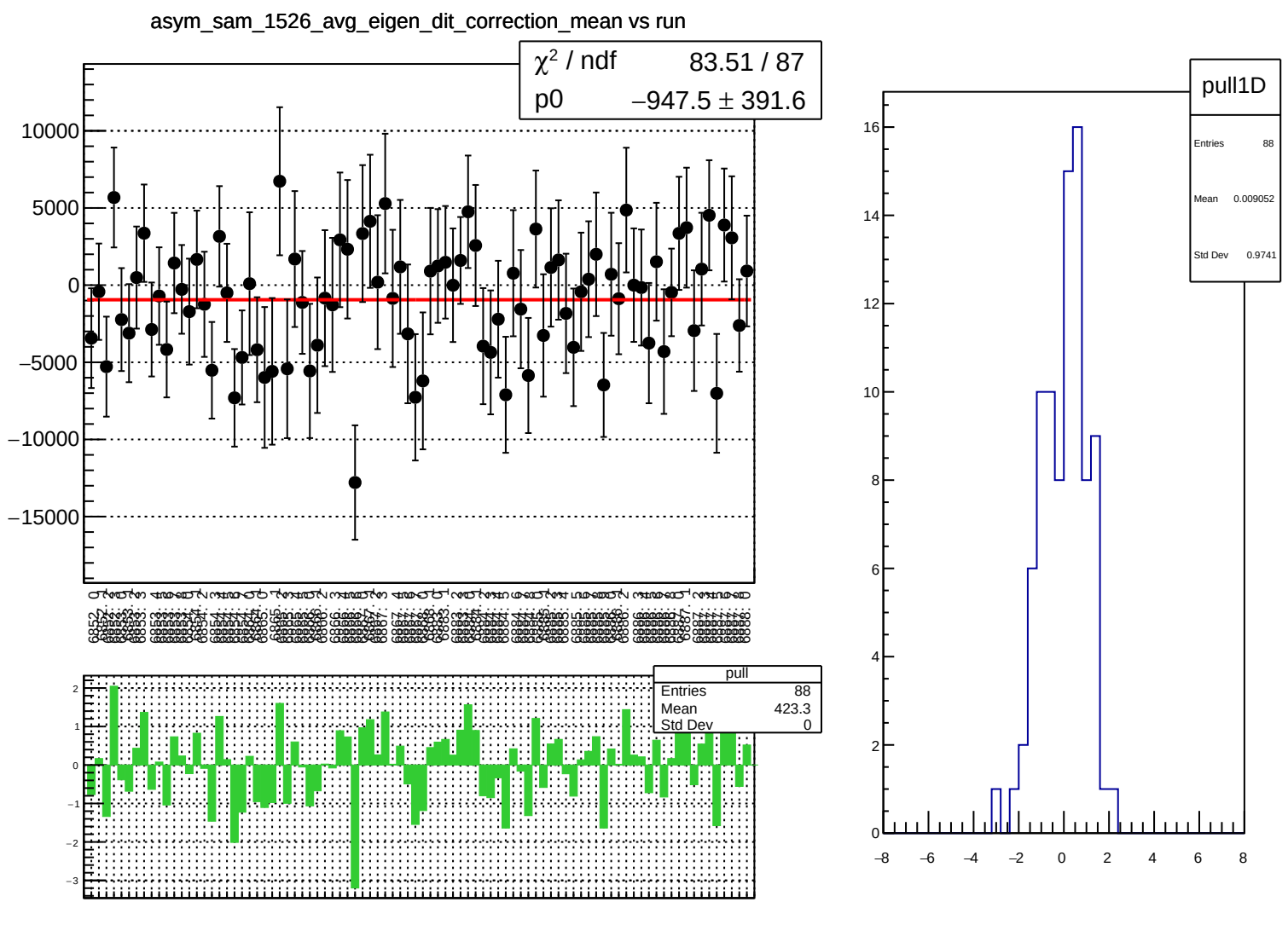

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 83.51 / 87
p0 −947.5 ± 391.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 423.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.009052
Std Dev 0.9741
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

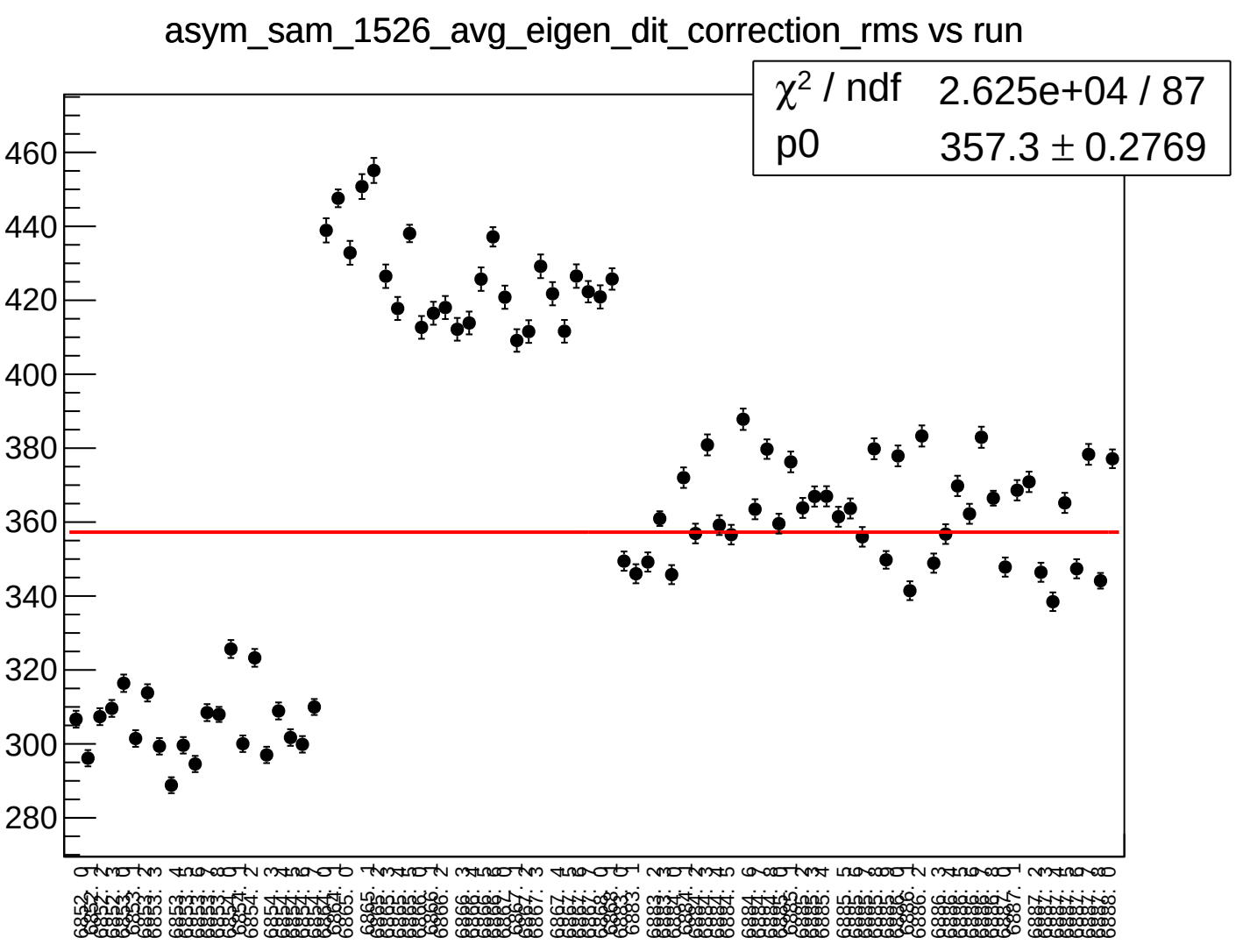

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2.625e+04 / 87
p0 357.3 ± 0.2769
460
440
420
400
380
360
340
320
300
280

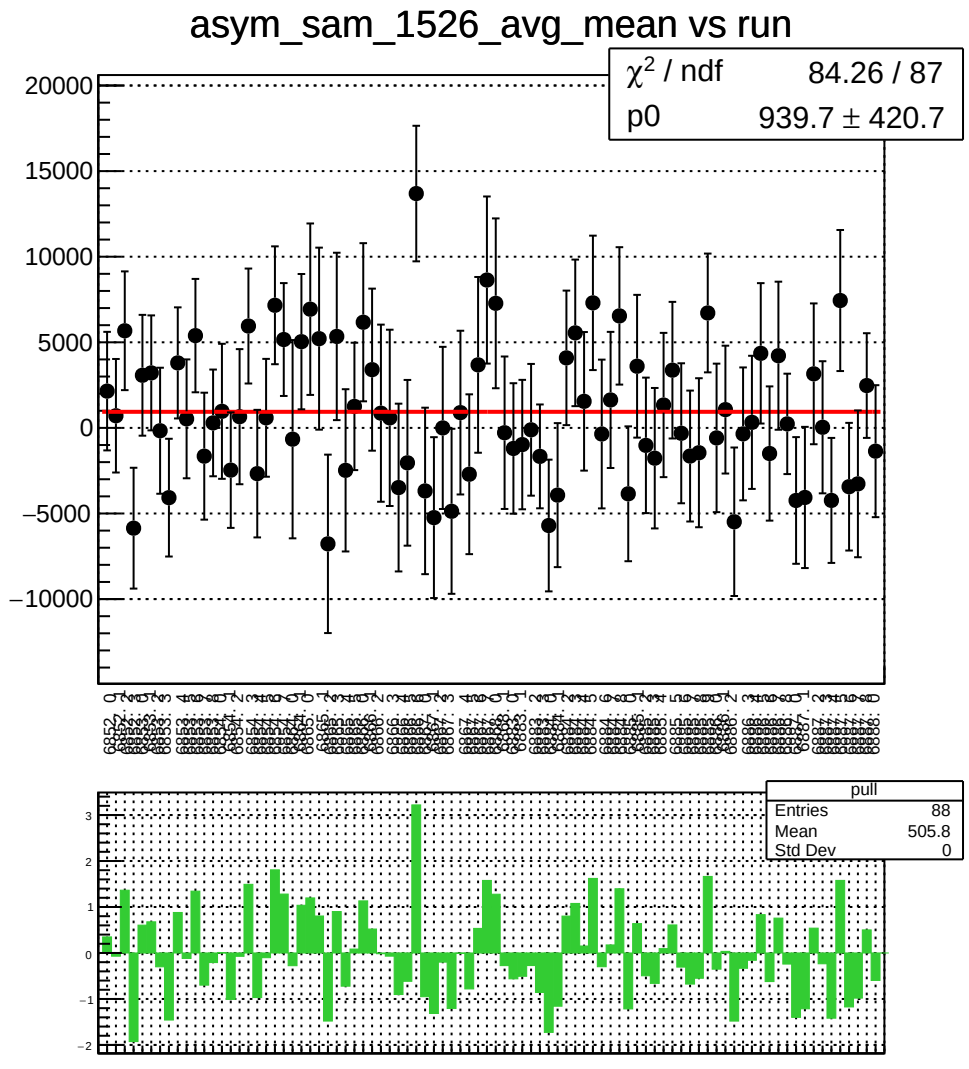

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 66.81 / 87
p0 24.97 ± 72.39
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 122.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

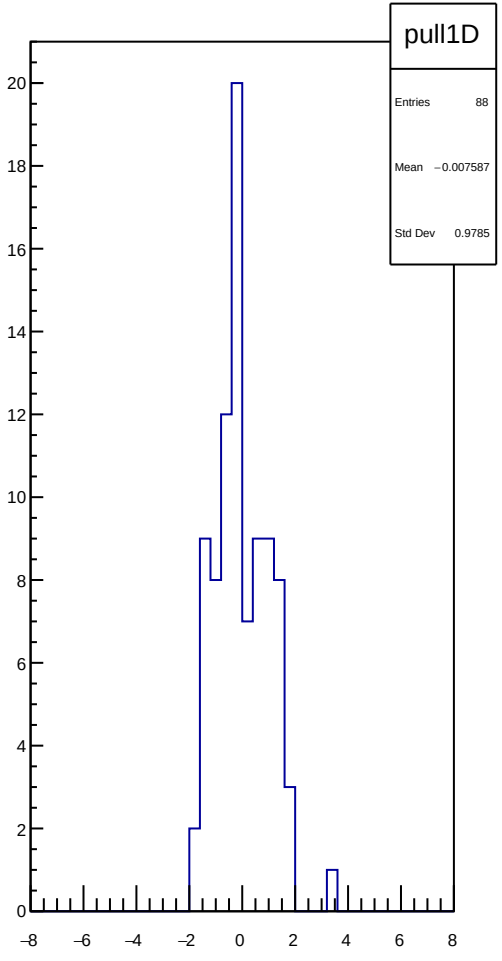

pull1D
Entries 88
Mean −0.01504
Std Dev 0.8712
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

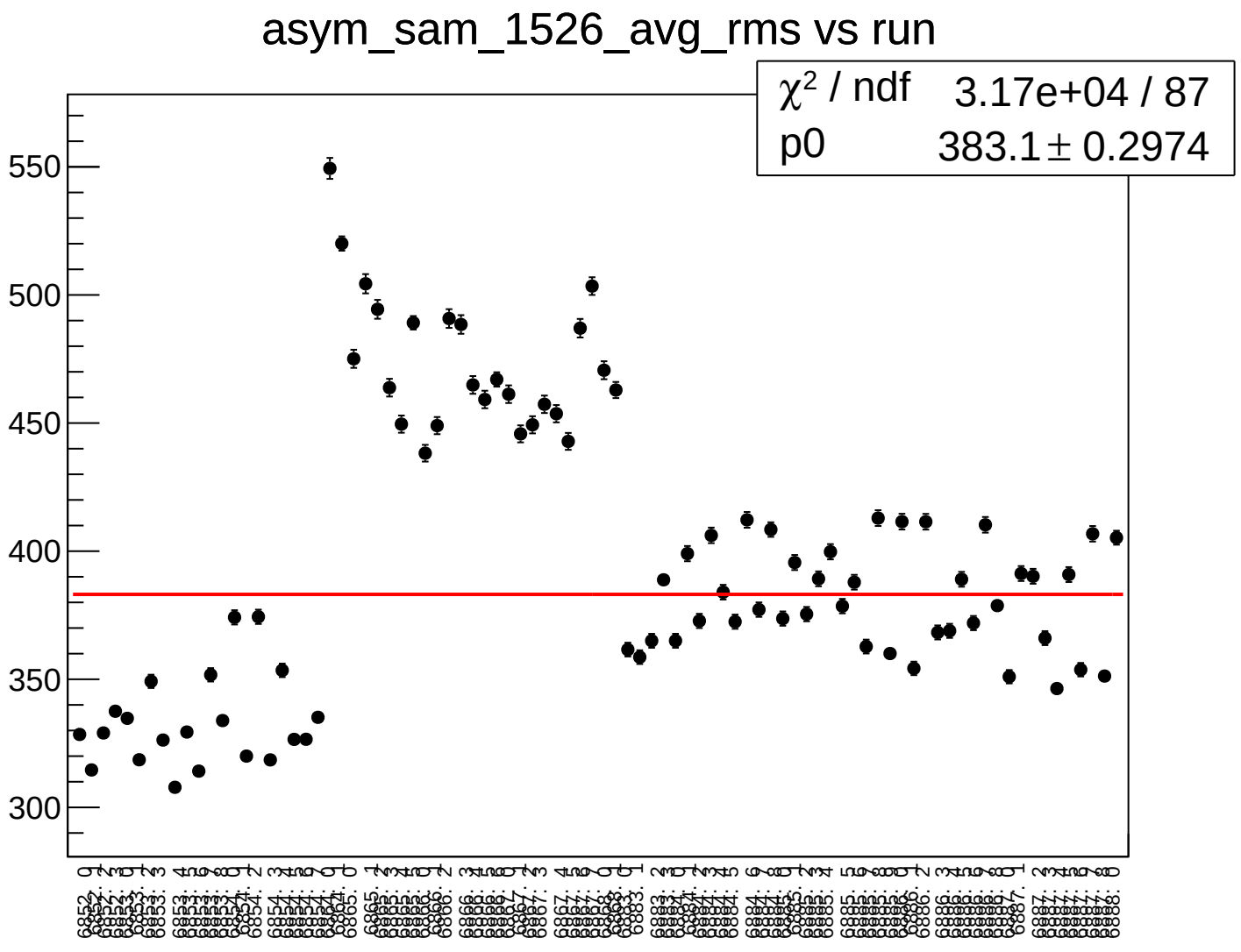

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.885e+04 / 87
p0 65.79 ± 0.05118
160
140
120
100
80
60

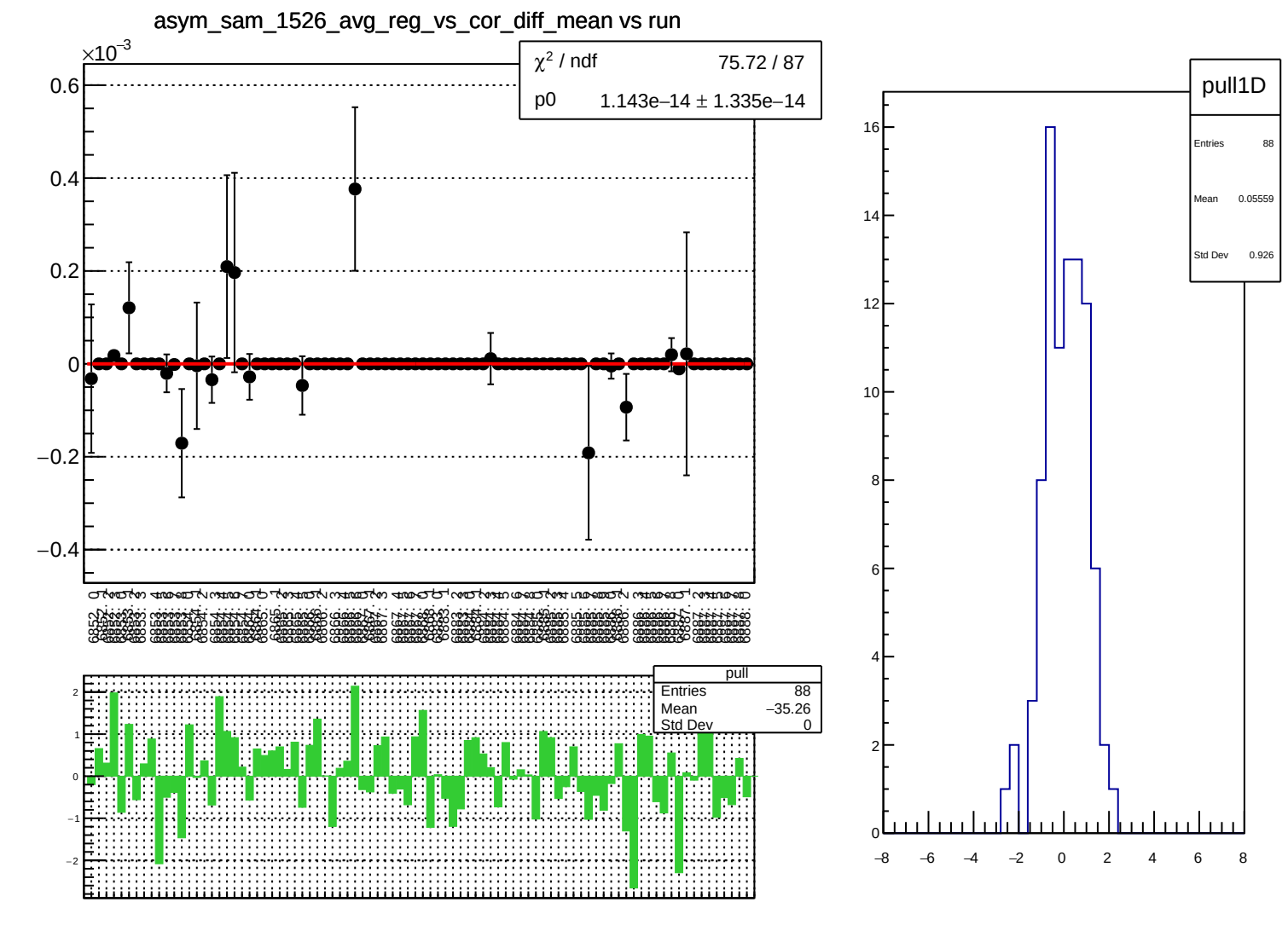

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.51 / 87
p0 −947.5 ± 391.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 423.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.009052
Std Dev 0.9741
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

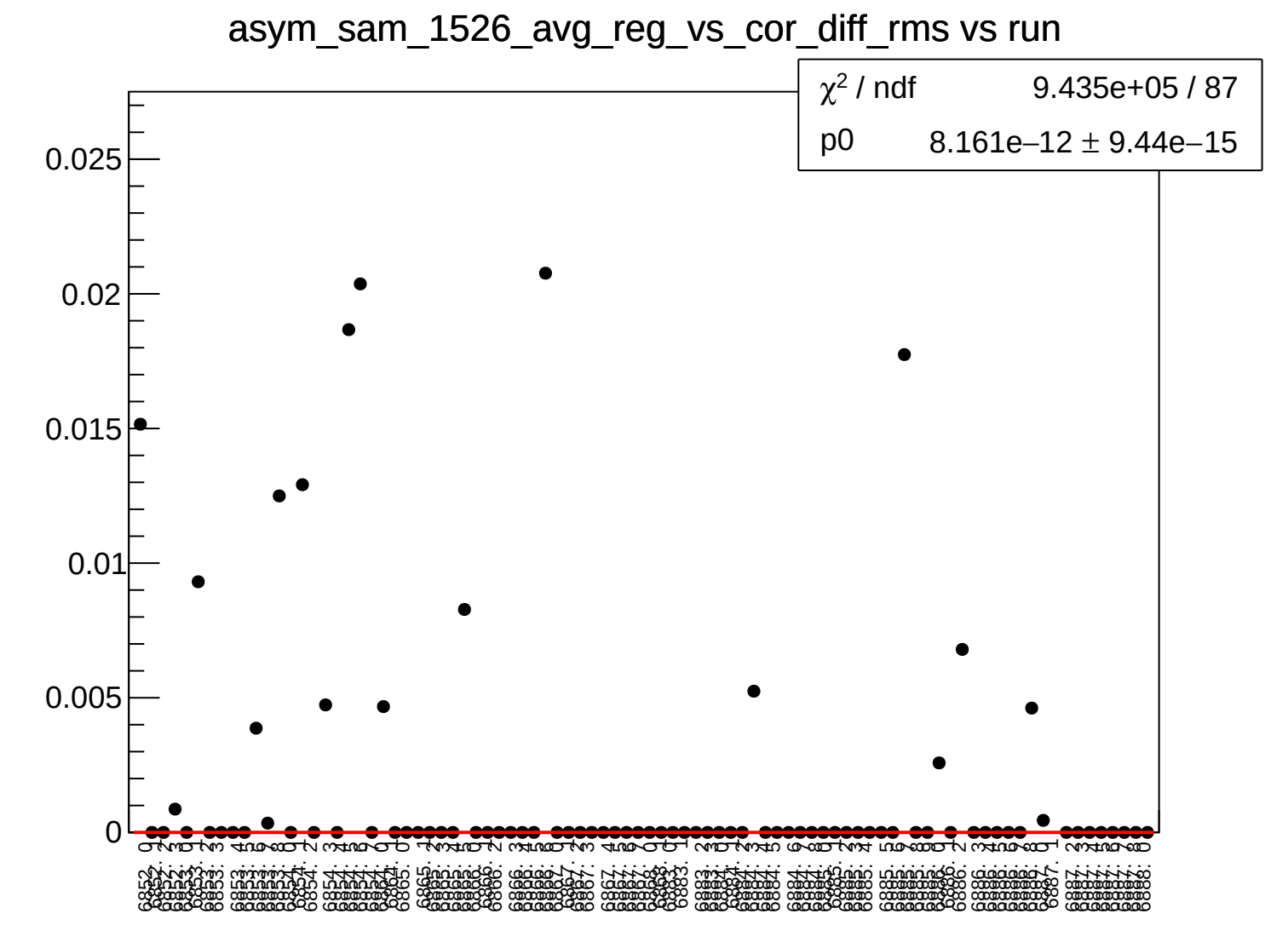

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.625e+04 / 87
p0 357.3 ± 0.2769
460
440
420
400
380
360
340
320
300
280

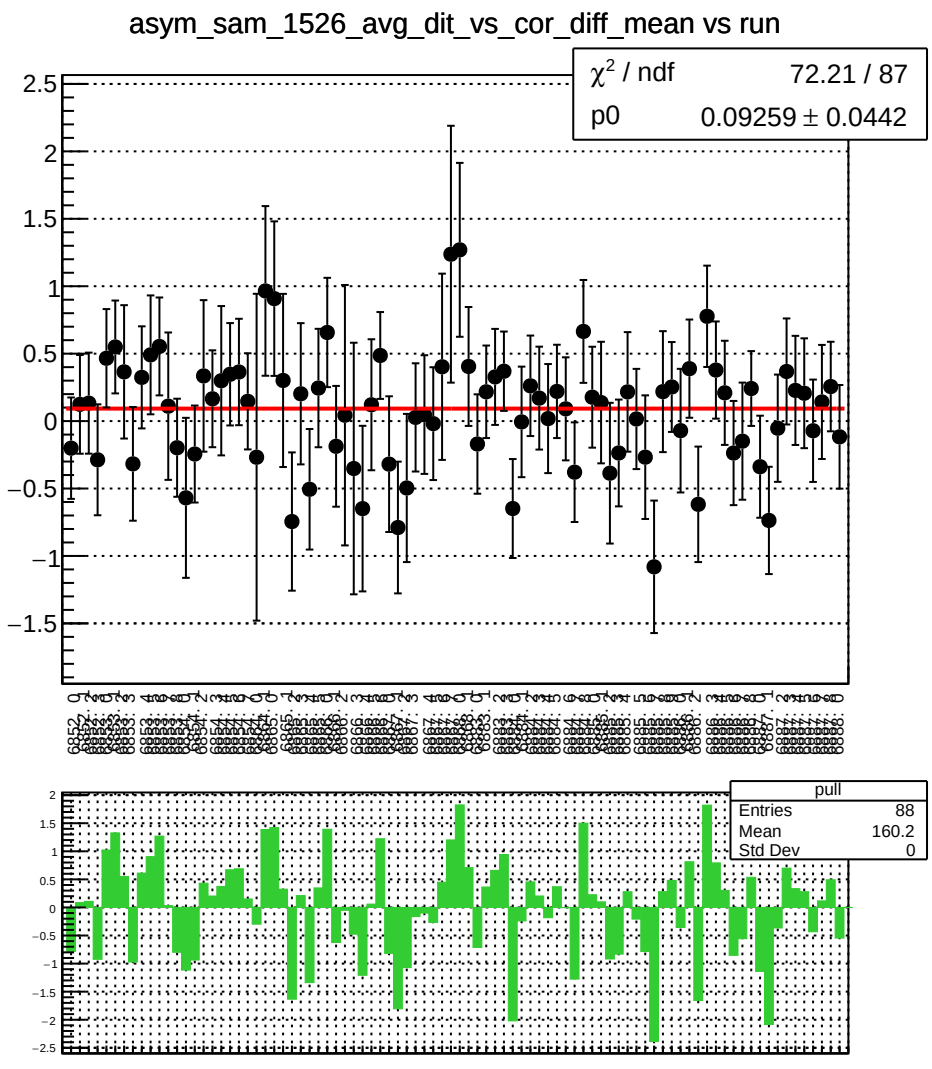

asym_sam_1526_avg_mean vs run
χ² / ndf 84.26 / 87
p0 939.7 ± 420.7
pull
Entries 88
Mean 505.8
Std Dev 0

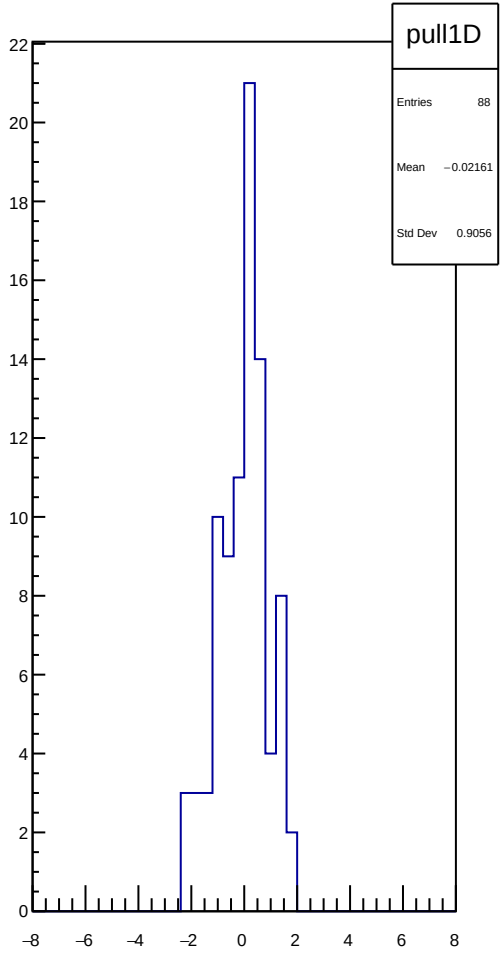

pull1D
Entries 88
Mean −0.007587
Std Dev 0.9785

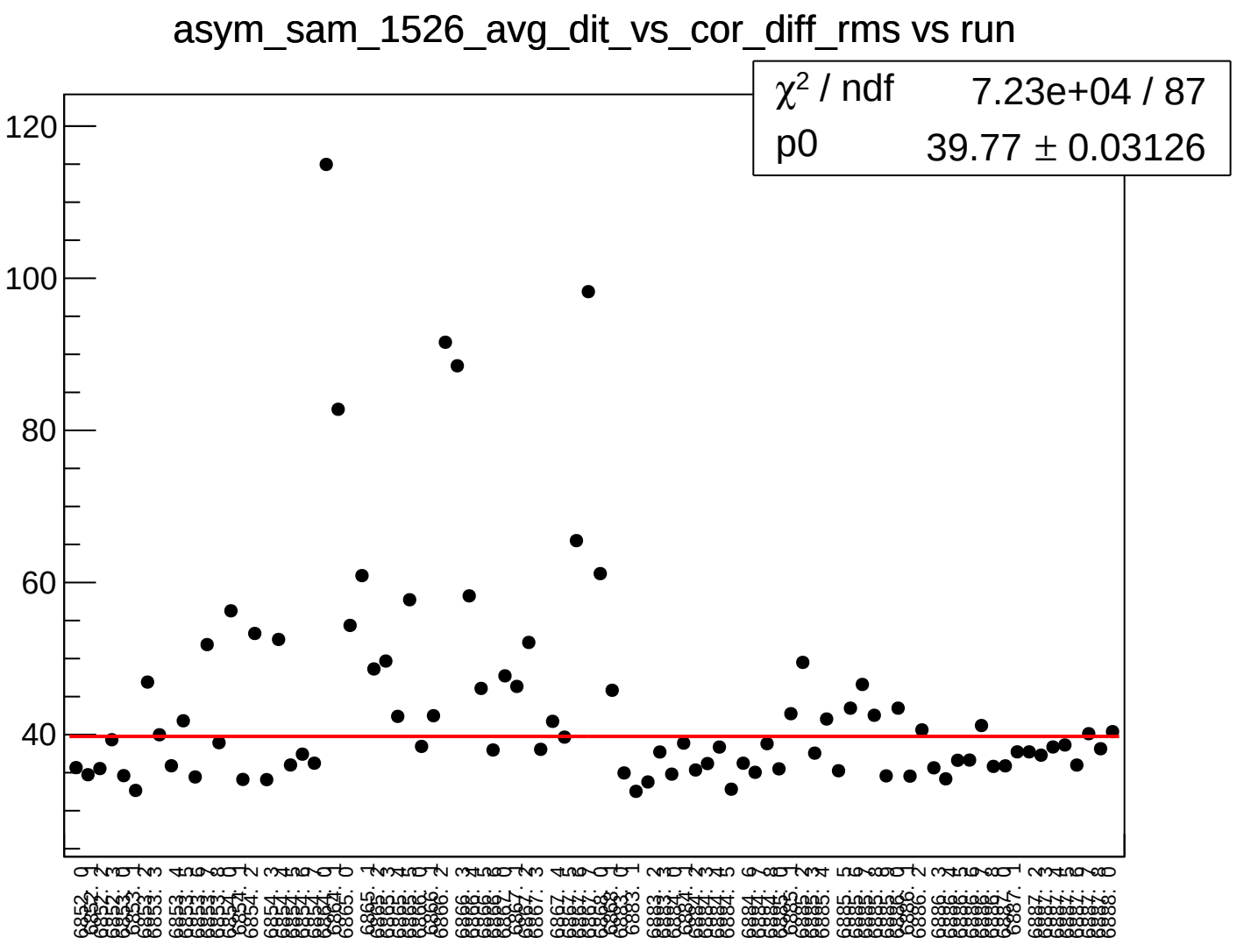

asym_sam_1526_avg_rms vs run
χ² / ndf 3.17e+04 / 87
p0 383.1 ± 0.2974
550
500
450
400
350
300

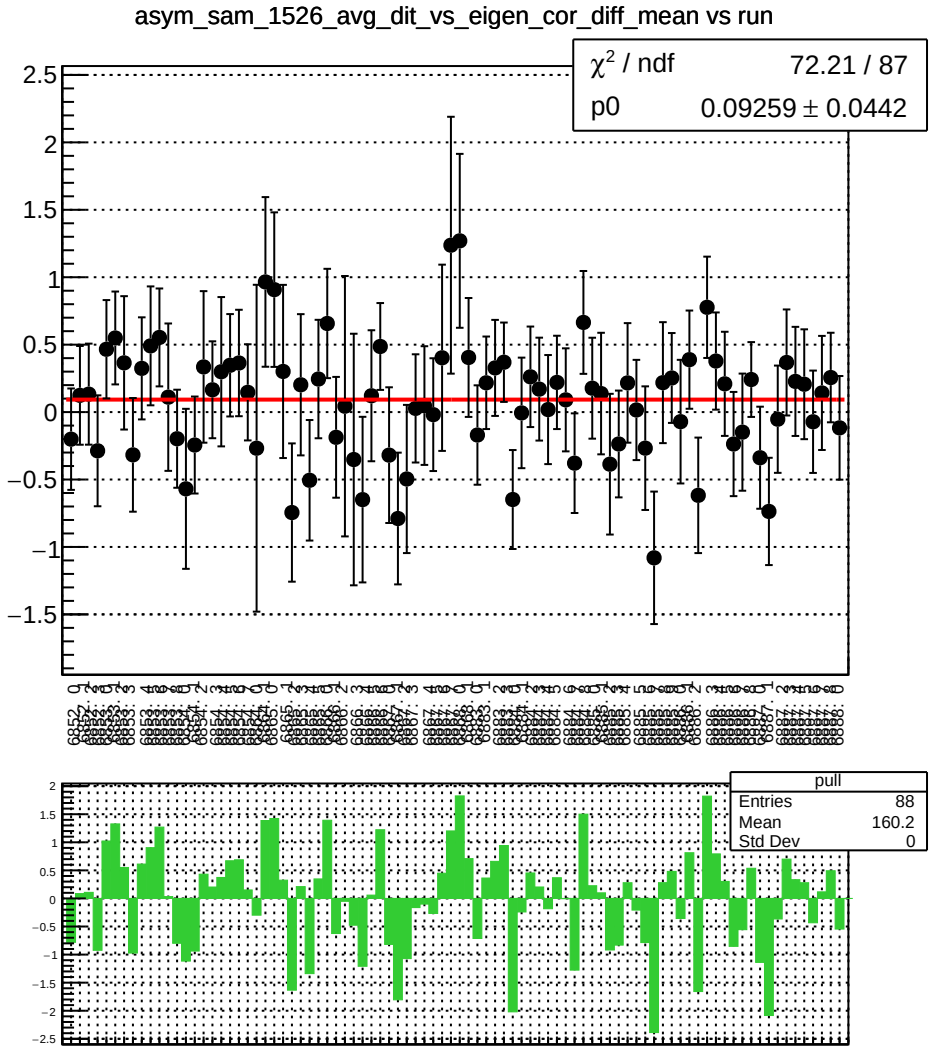

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 75.72 / 87
p0 1.143e−14 ± 1.335e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean −35.26
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.05559
Std Dev 0.926
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

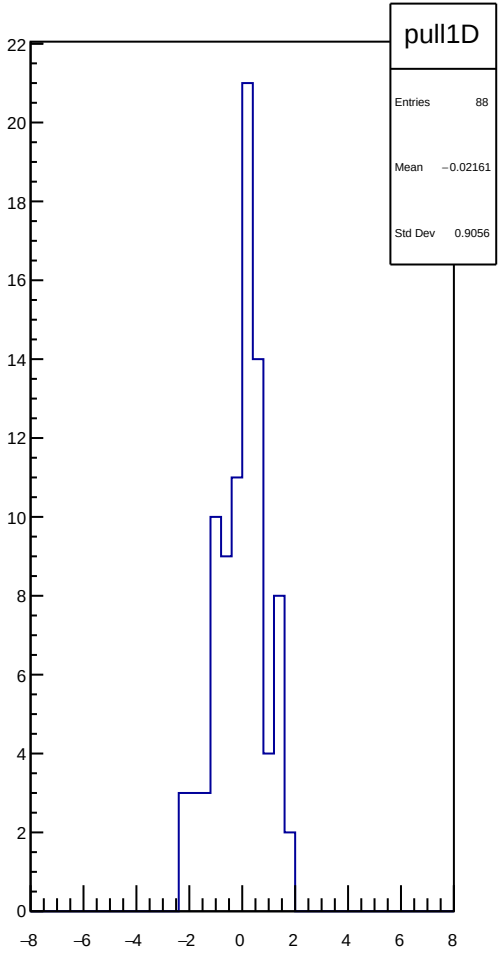

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.435e+05 / 87
p0 8.161e−12 ± 9.44e−15
0.025
0.02
0.015
0.01
0.005
0

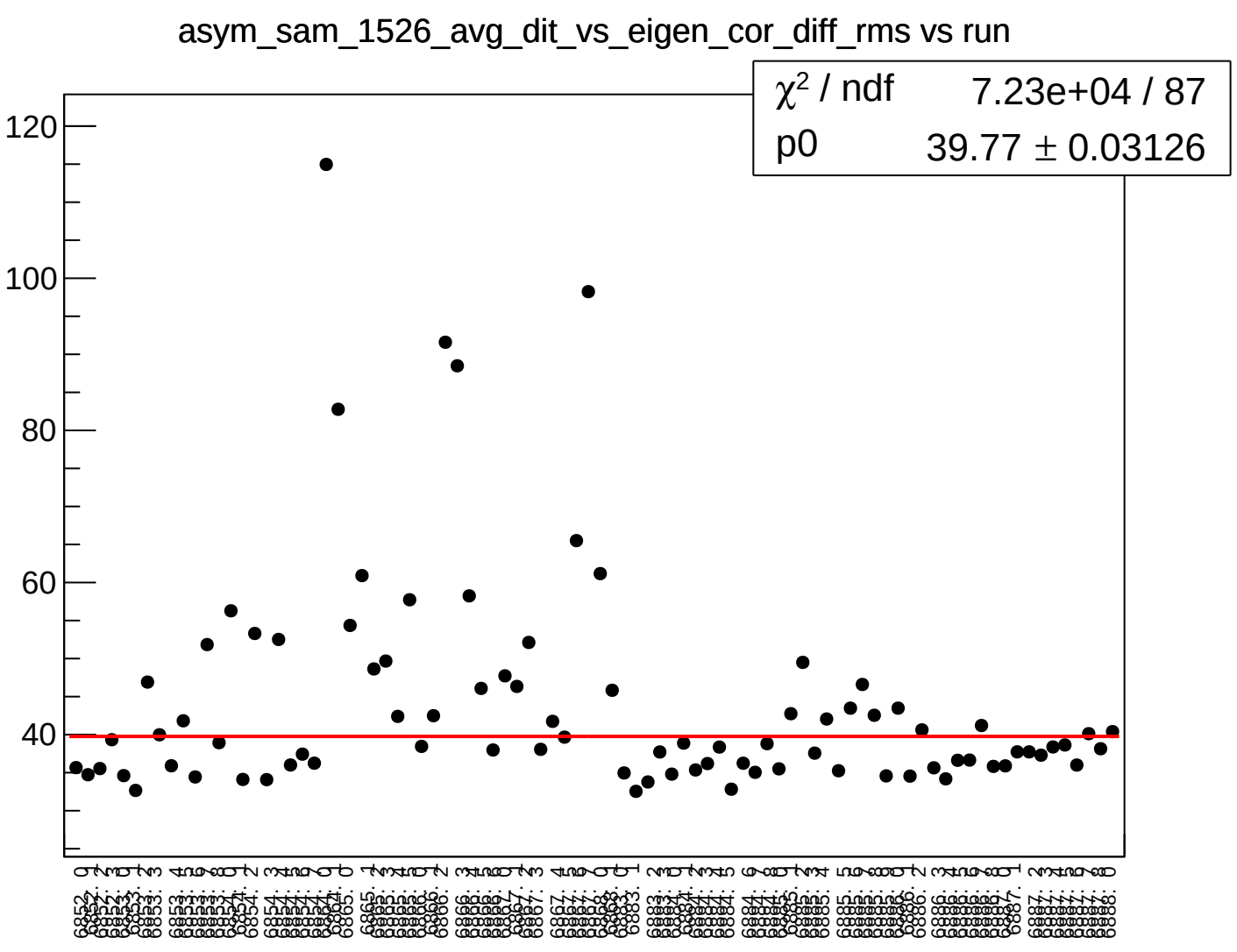

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.21 / 87
p0 0.09259 ± 0.0442
pull
Entries 88
Mean 160.2
Std Dev 0

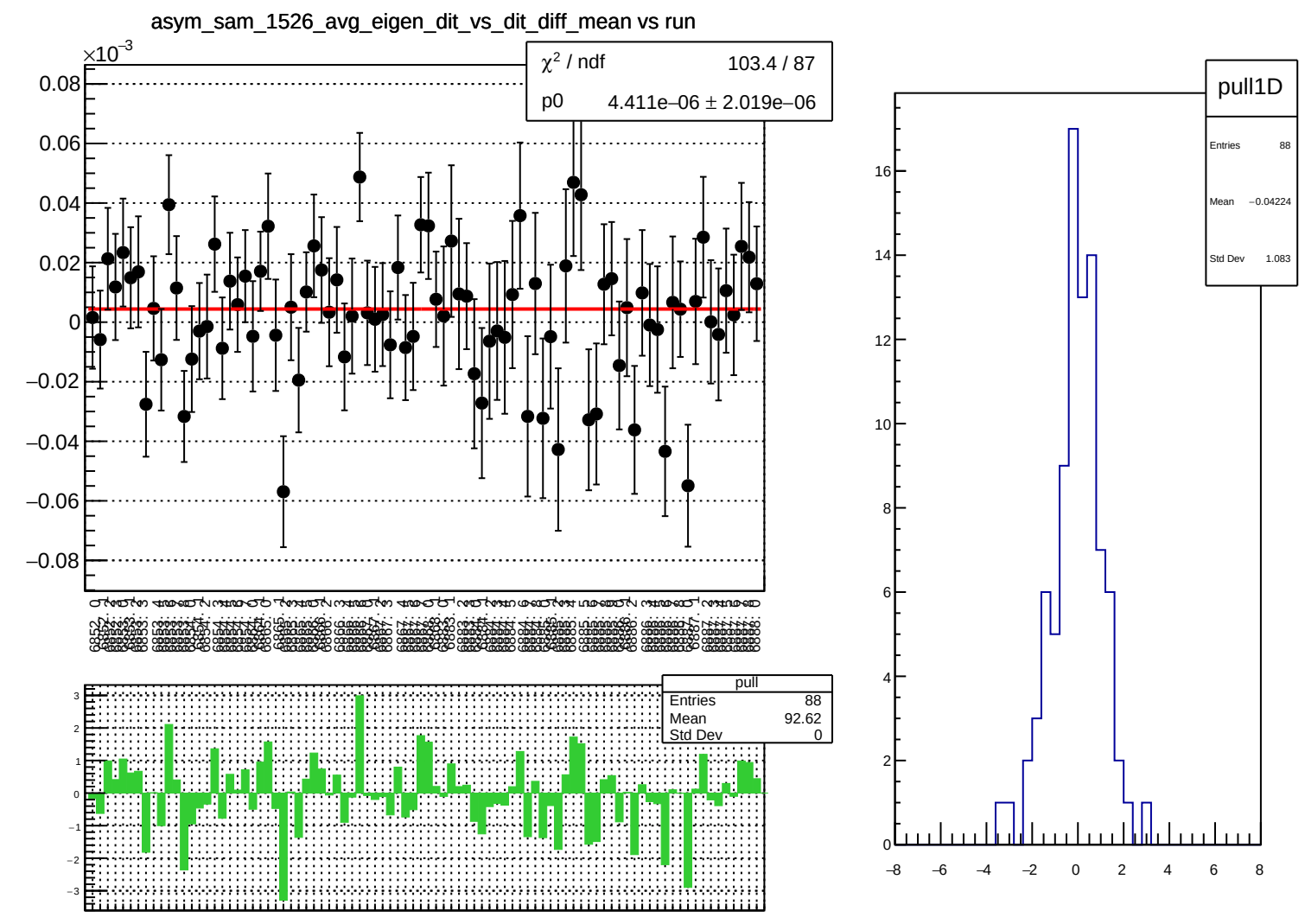

pull1D
Entries 88
Mean −0.02161
Std Dev 0.9056

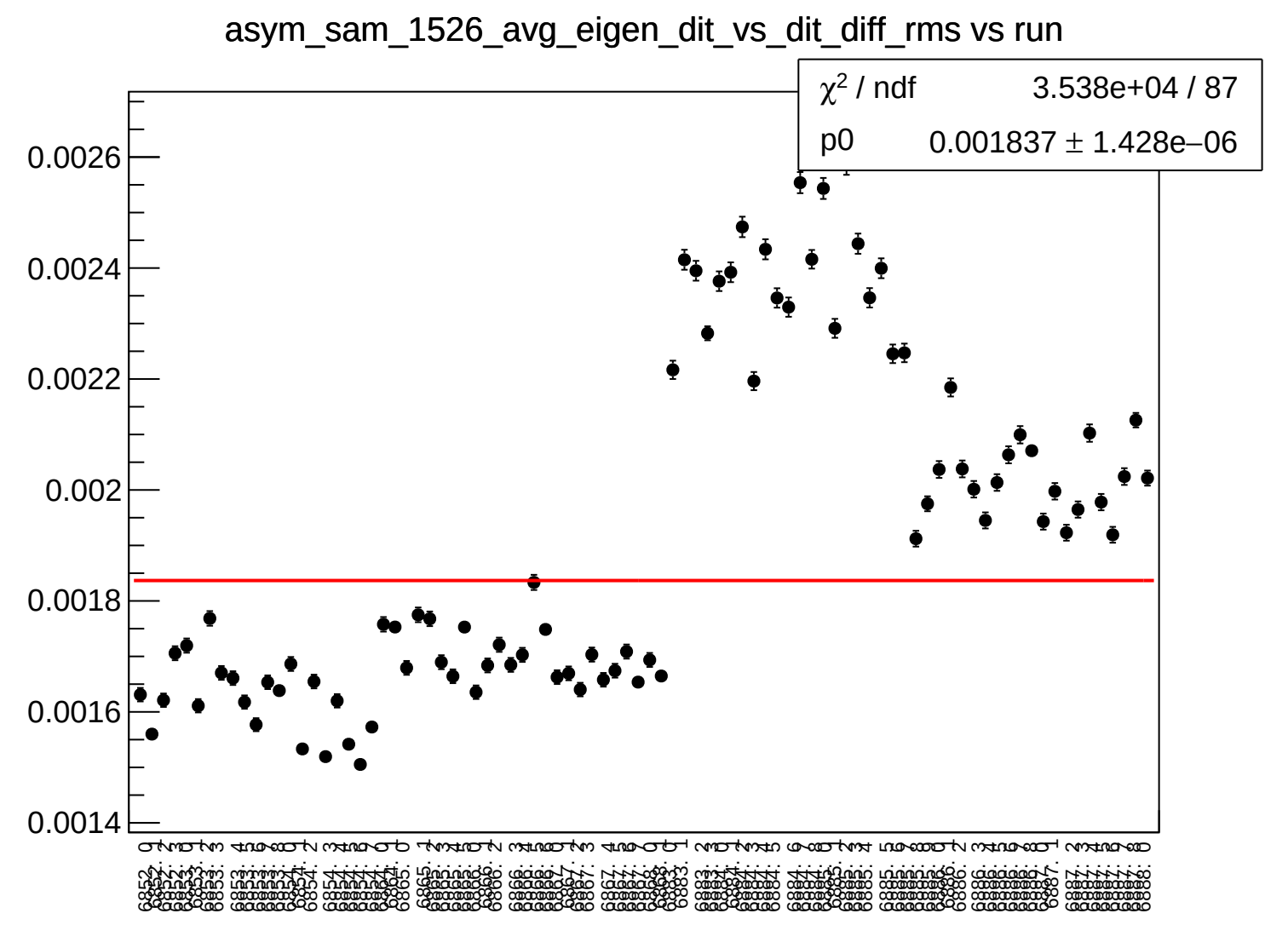

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.23e+04 / 87
p0 39.77 ± 0.03126
120
100
80
60
40

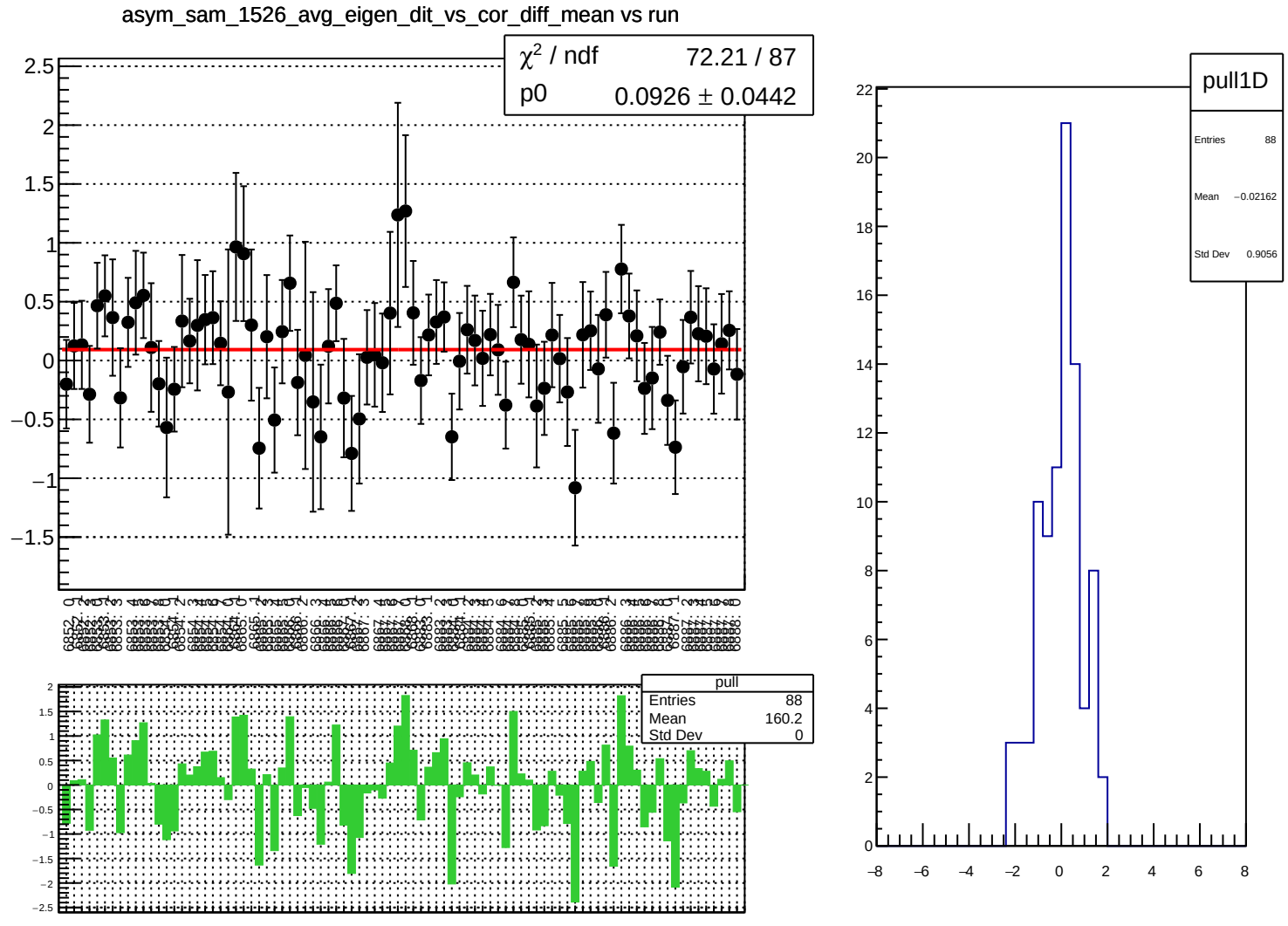

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.21 / 87
p0 0.09259 ± 0.0442
pull
Entries 88
Mean 160.2
Std Dev 0

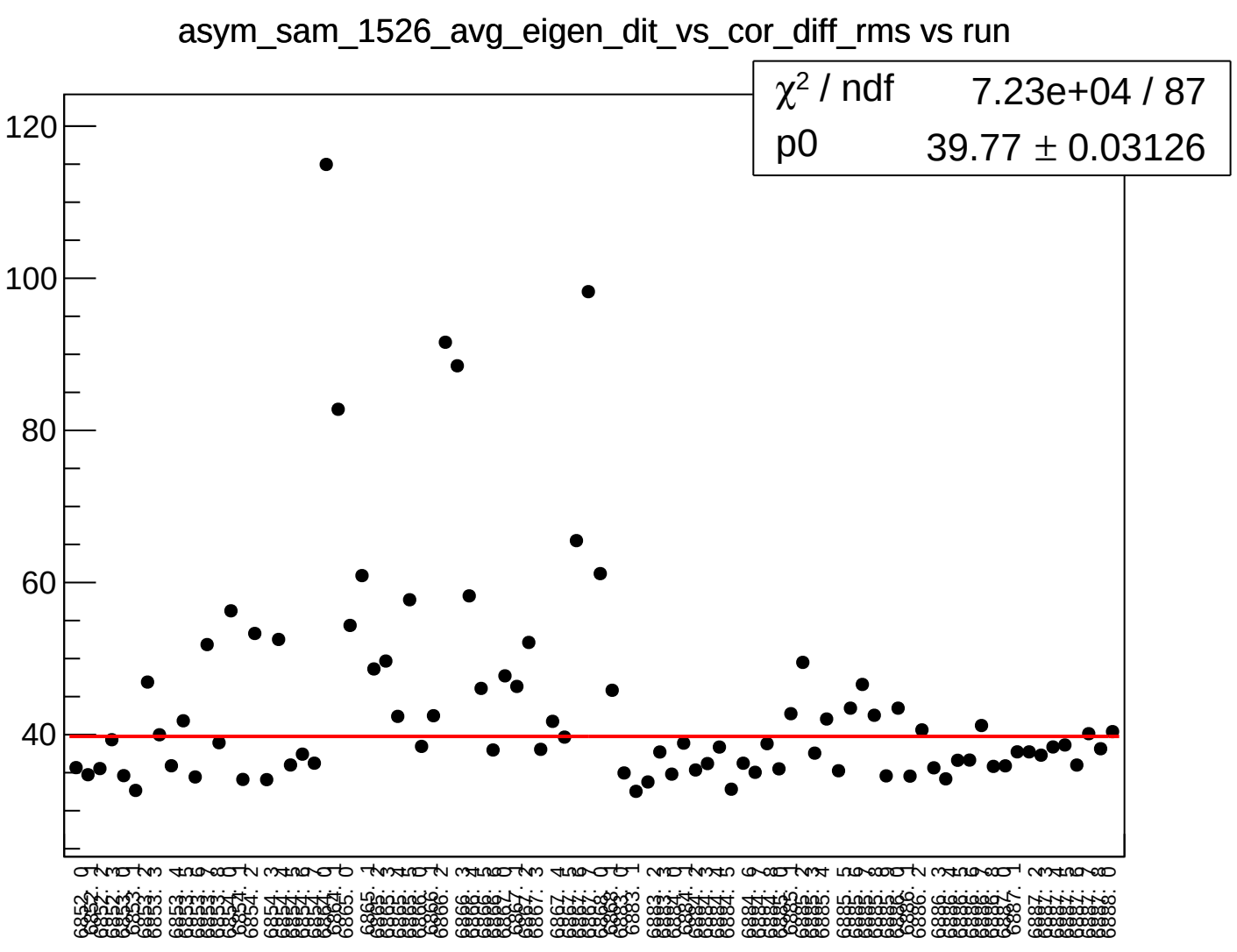

pull1D
Entries 88
Mean −0.02161
Std Dev 0.9056

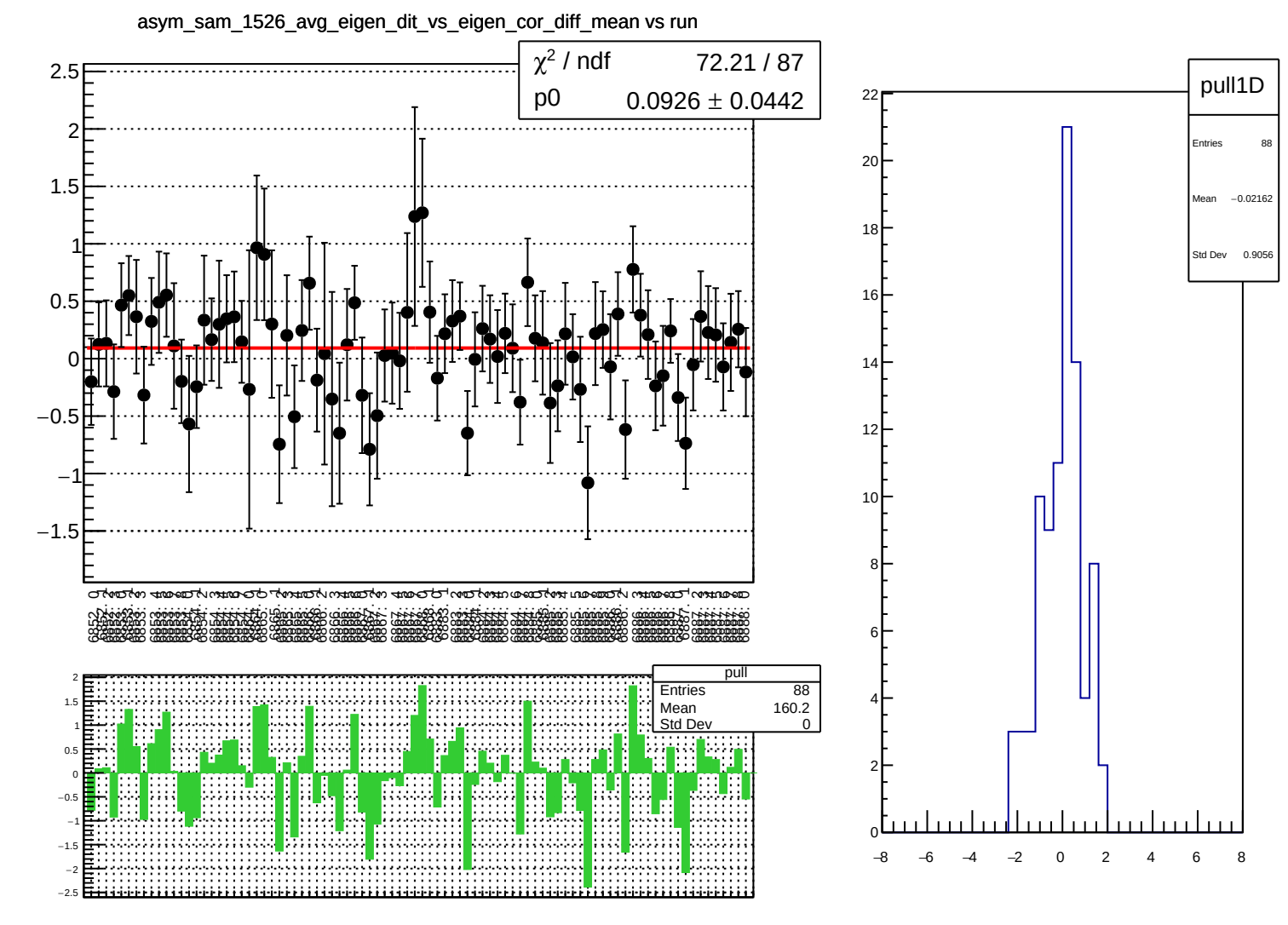

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.23e+04 / 87
p0 39.77 ± 0.03126
120
100
80
60
40

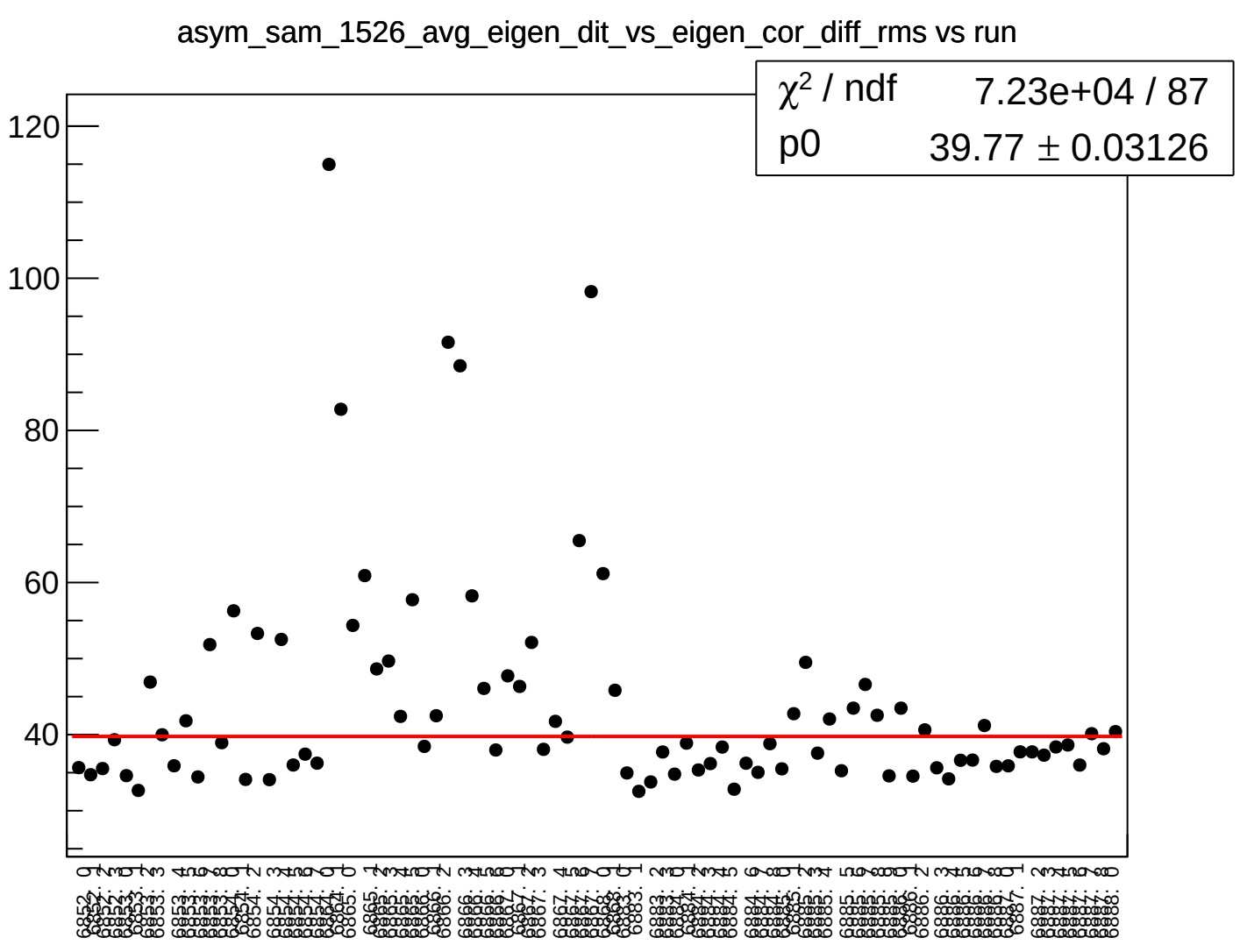

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.4 / 87
p0 4.411e−06 ± 2.019e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 88
Mean 92.62
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.04224
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

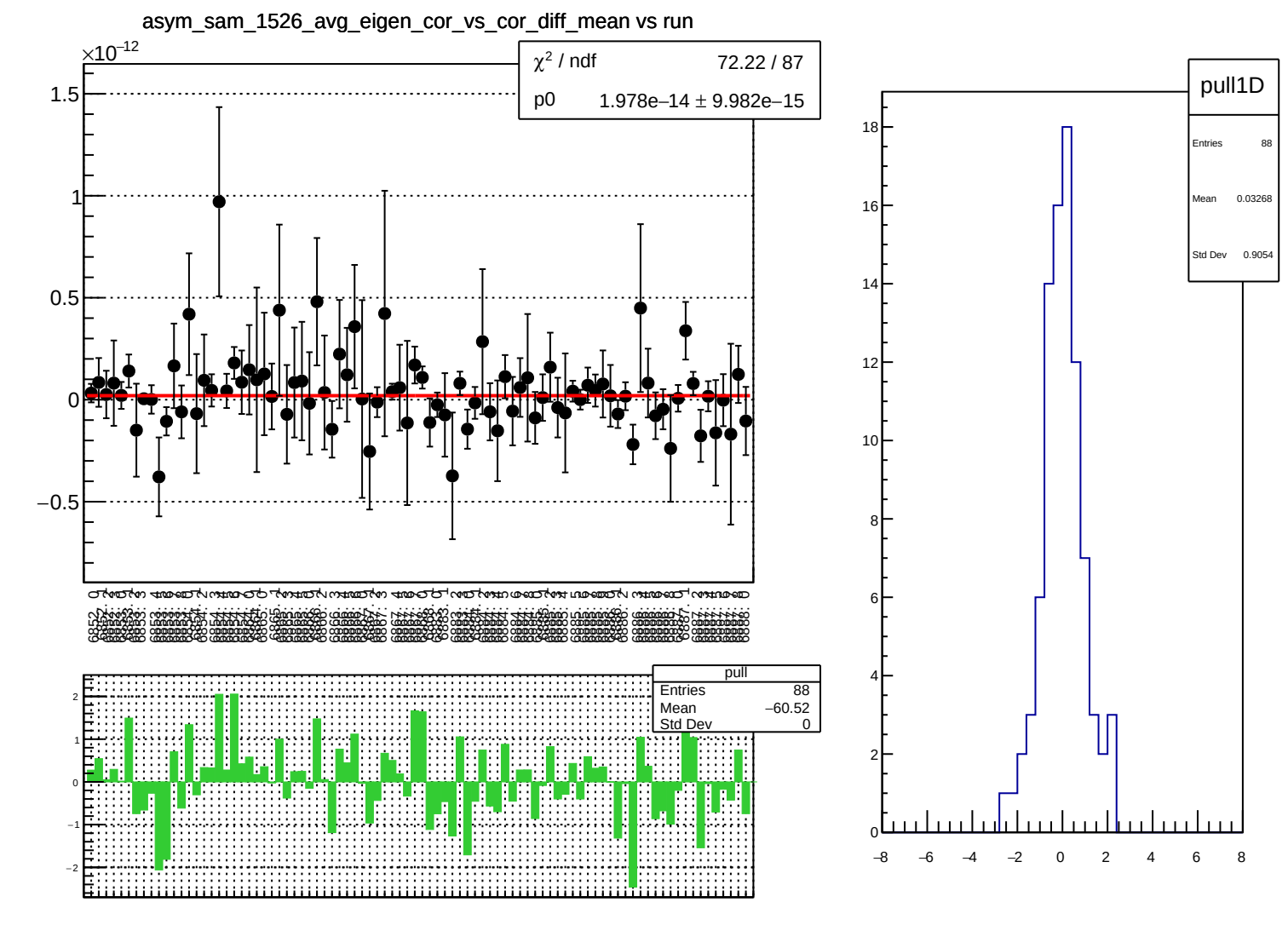

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.538e+04 / 87
p0 0.001837 ± 1.428e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

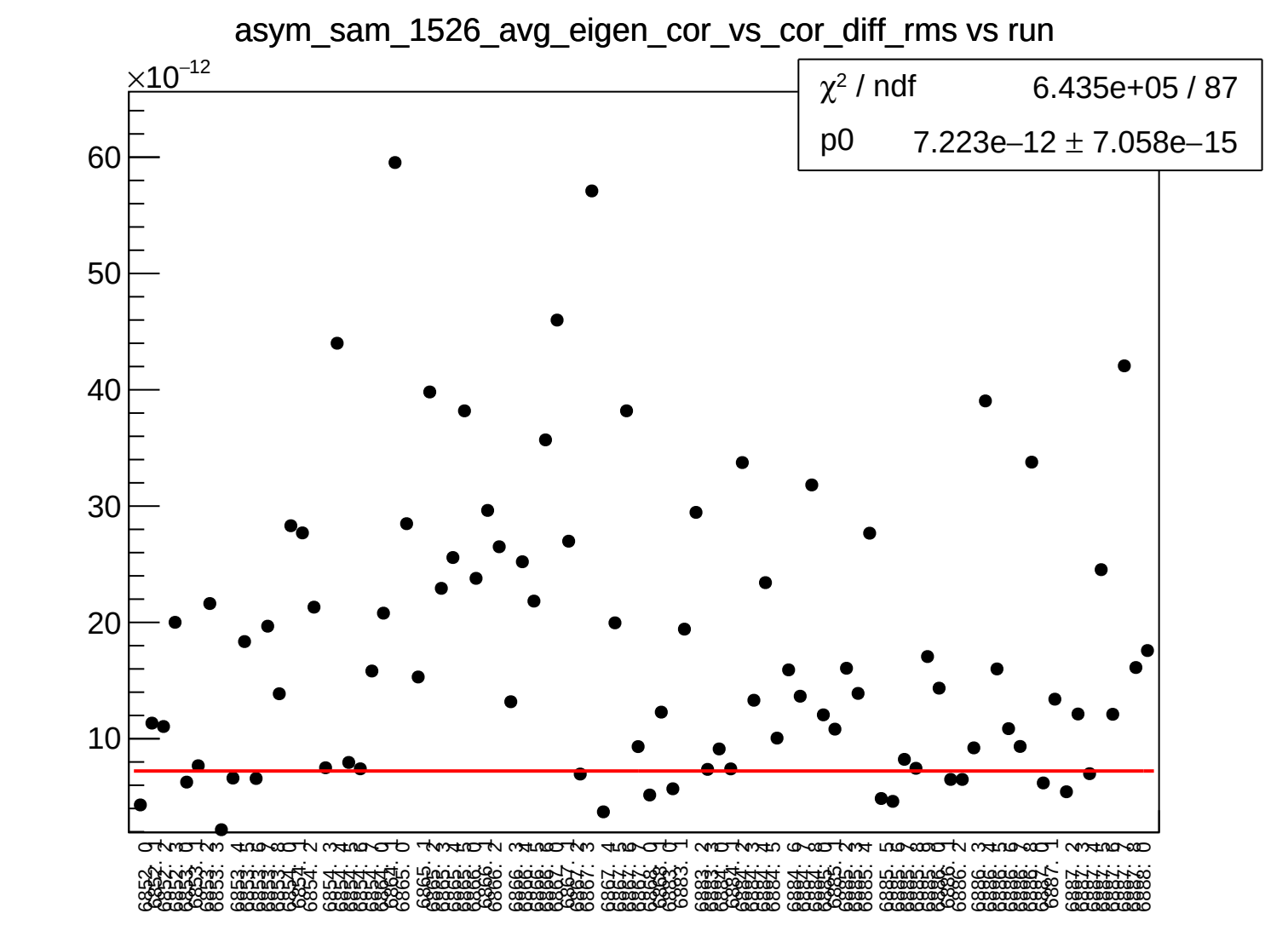

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.21 / 87
p0 0.0926 ± 0.0442
pull
Entries 88
Mean 160.2
Std Dev 0
pull1D
Entries 88
Mean −0.02162
Std Dev 0.9056

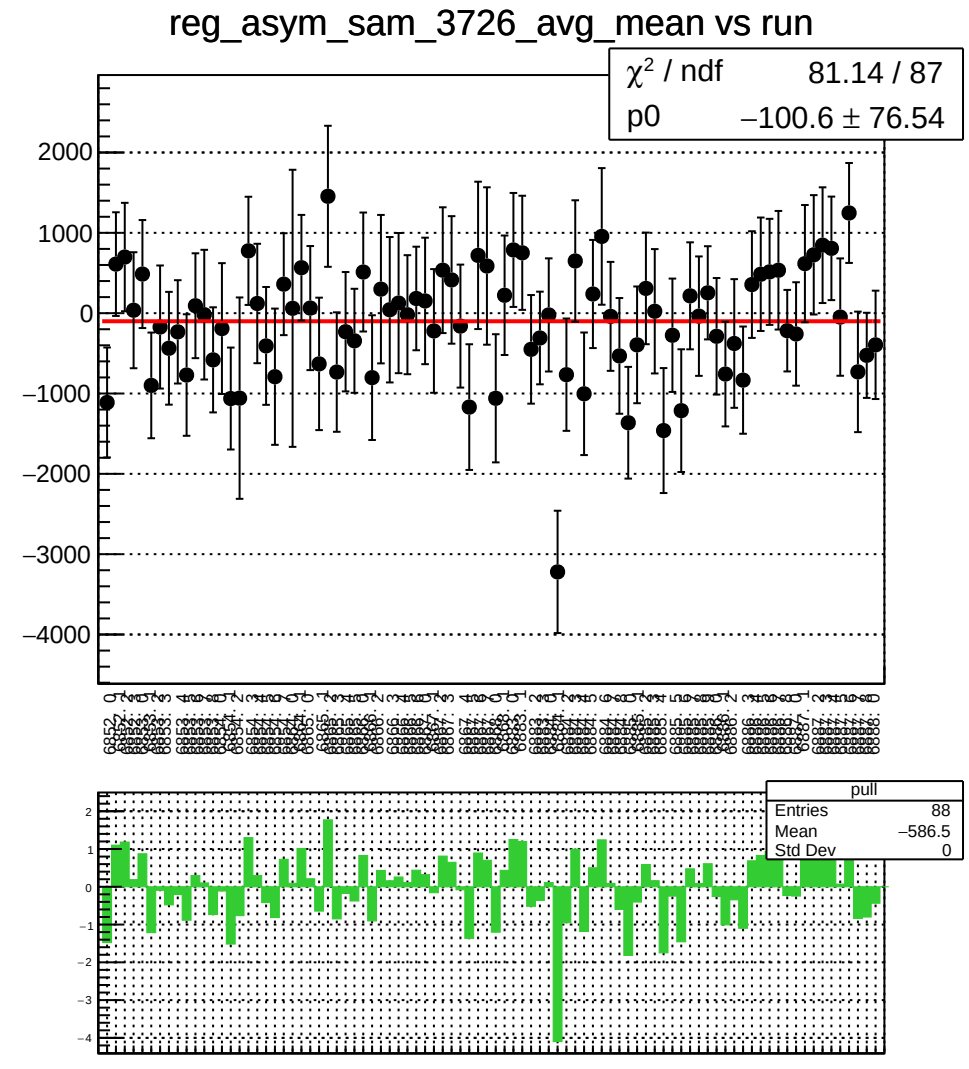

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.23e+04 / 87
p0 39.77 ± 0.03126
120
100
80
60
40

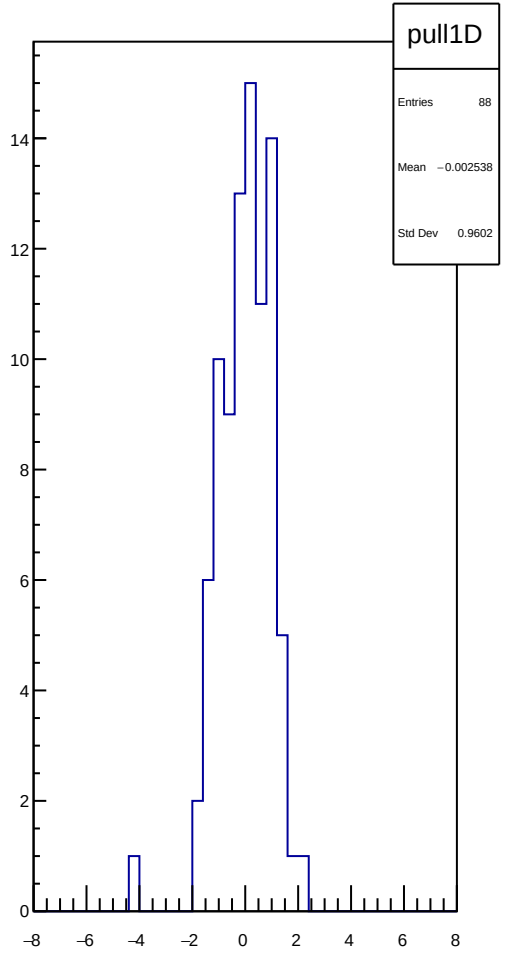

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.21 / 87
p0 0.0926 ± 0.0442
pull
Entries 88
Mean 160.2
Std Dev 0
pull1D
Entries 88
Mean −0.02162
Std Dev 0.9056

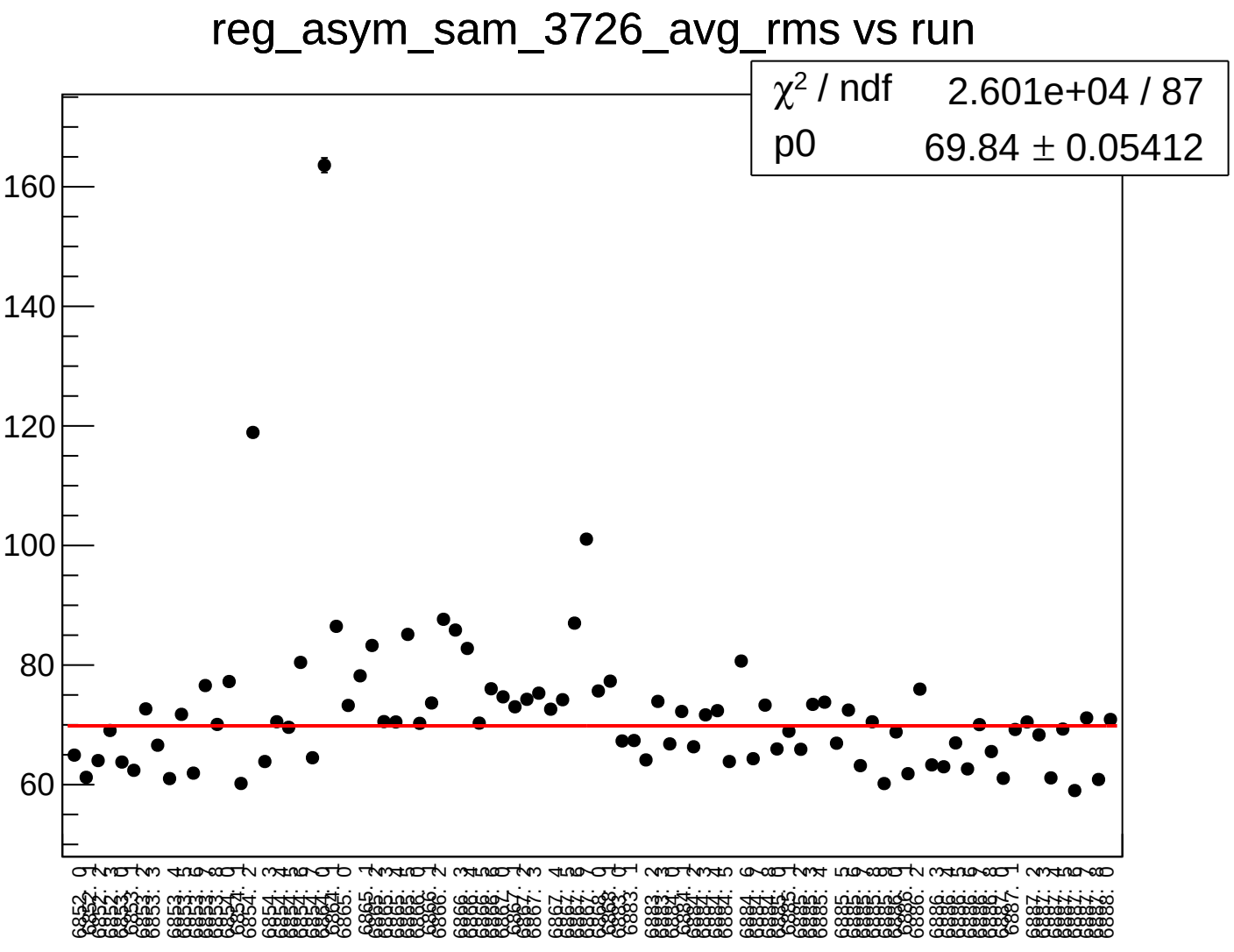

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.23e+04 / 87
p0 39.77 ± 0.03126
120
100
80
60
40

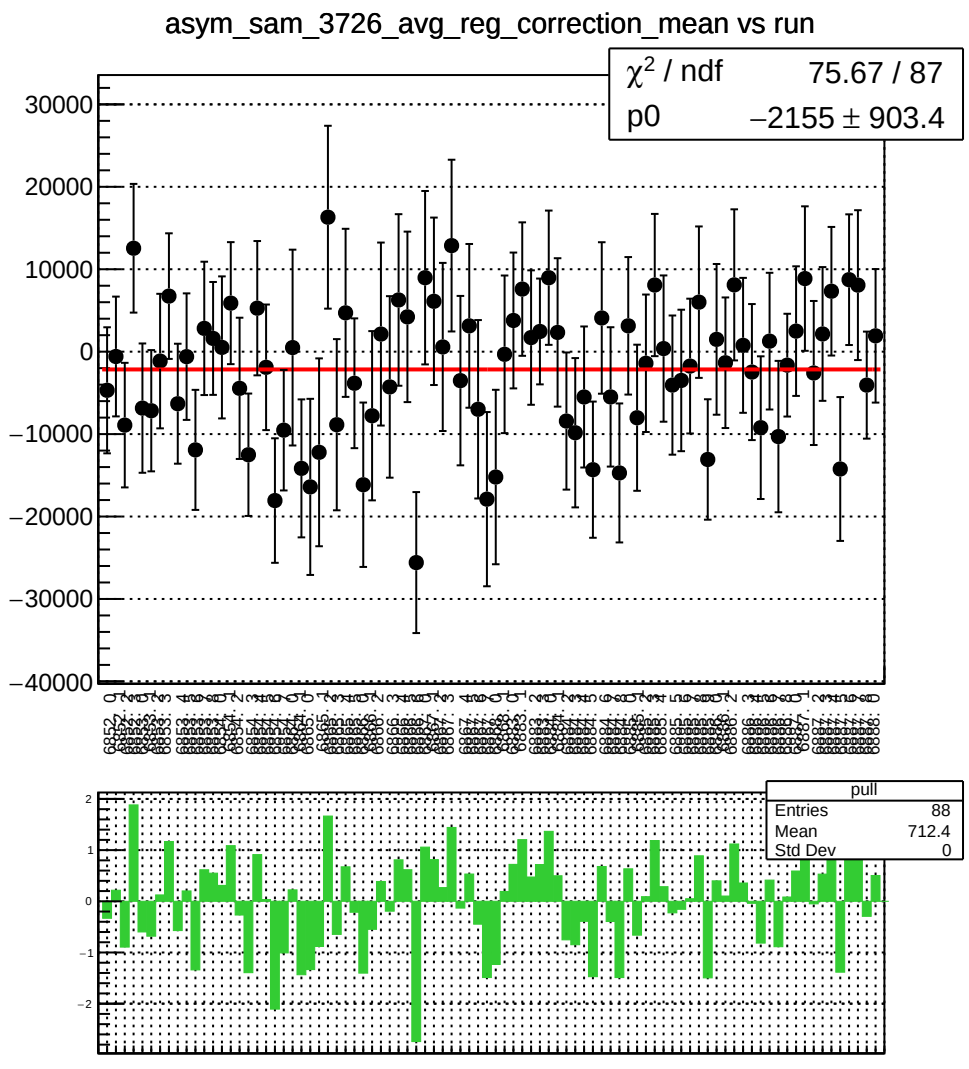

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 72.22 / 87
p0 1.978e−14 ± 9.982e−15
1.5
1
0.5
0
−0.5
pull
Entries 88
Mean −60.52
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.03268
Std Dev 0.9054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

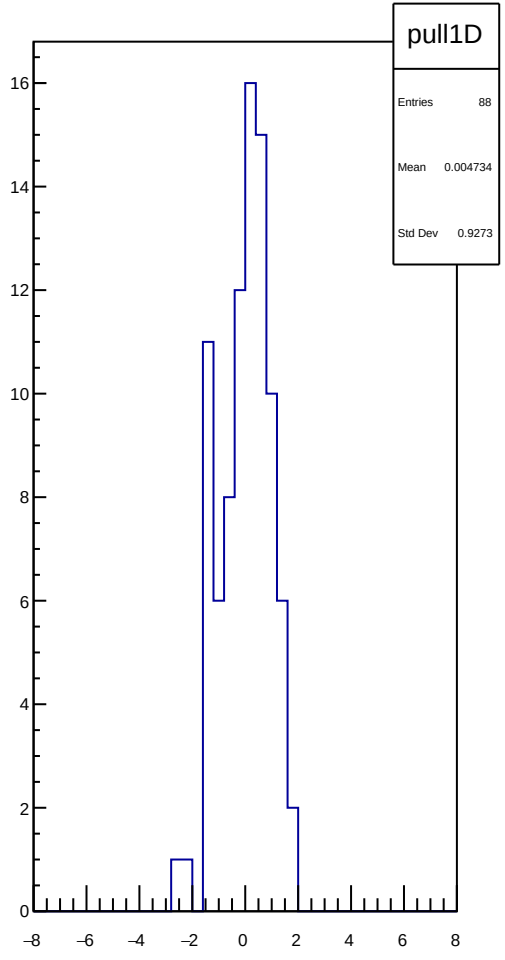

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.435e+05 / 87
p0 7.223e−12 ± 7.058e−15
60
50
40
30
20
10

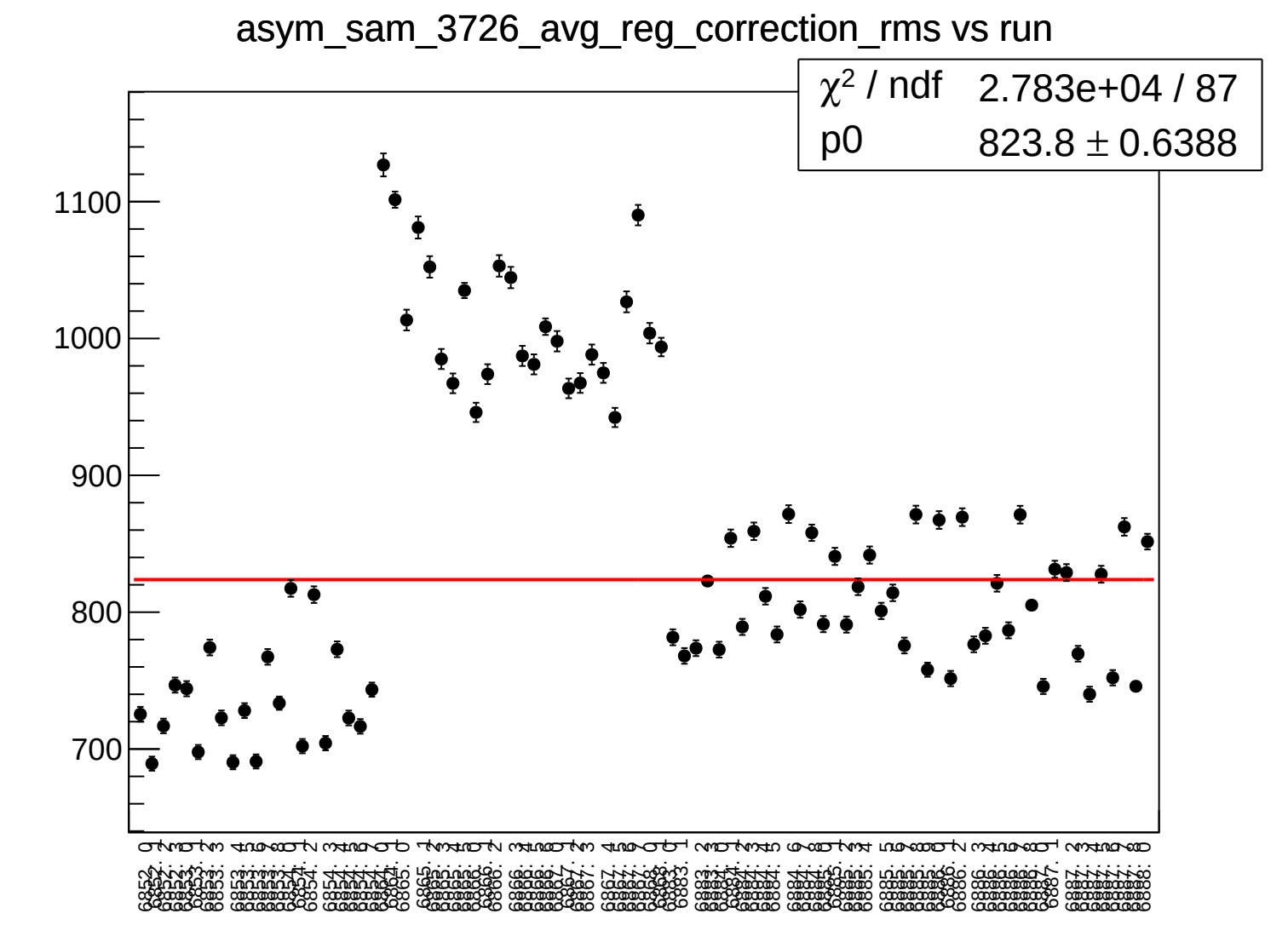

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 81.14 / 87
p0 −100.6 ± 76.54
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean −586.5
Std Dev 0
2
1
0
−1
−2
−3
−4

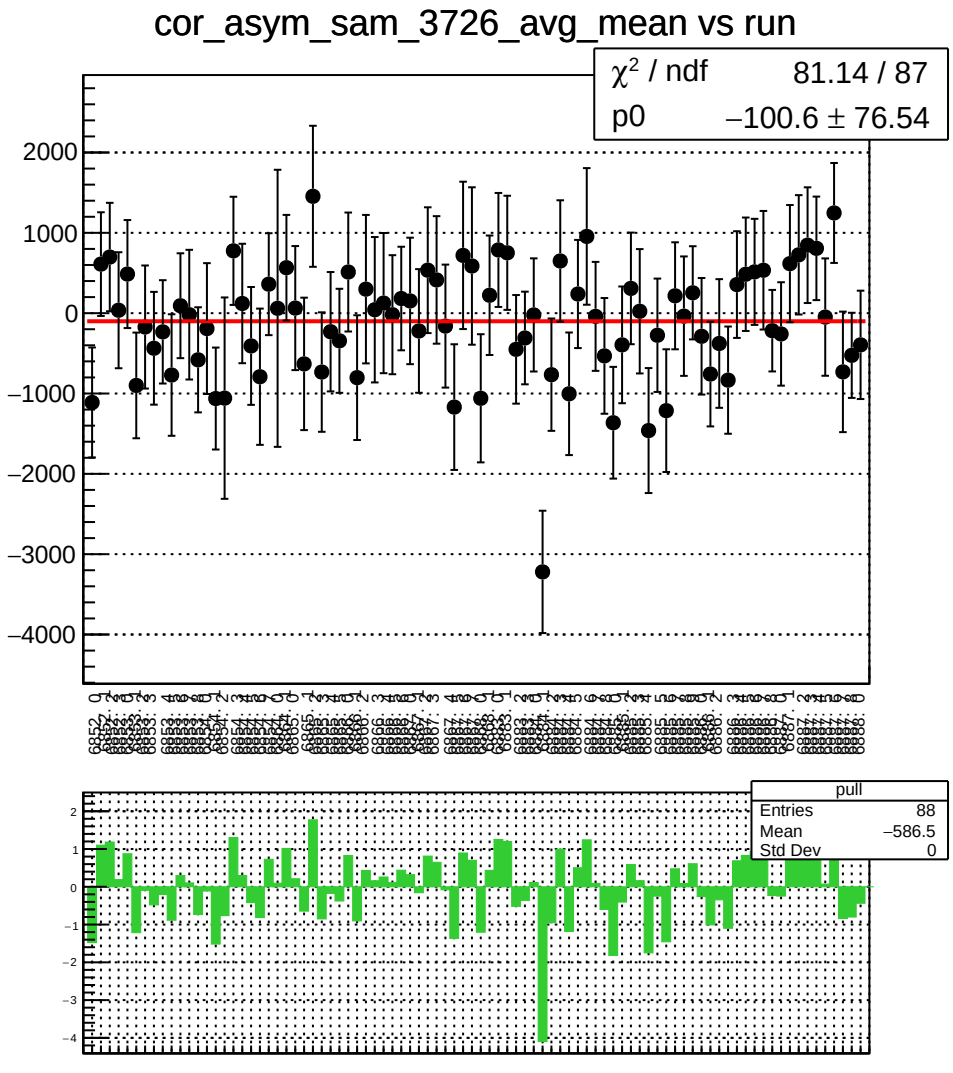

pull1D
Entries 88
Mean −0.002538
Std Dev 0.9602
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

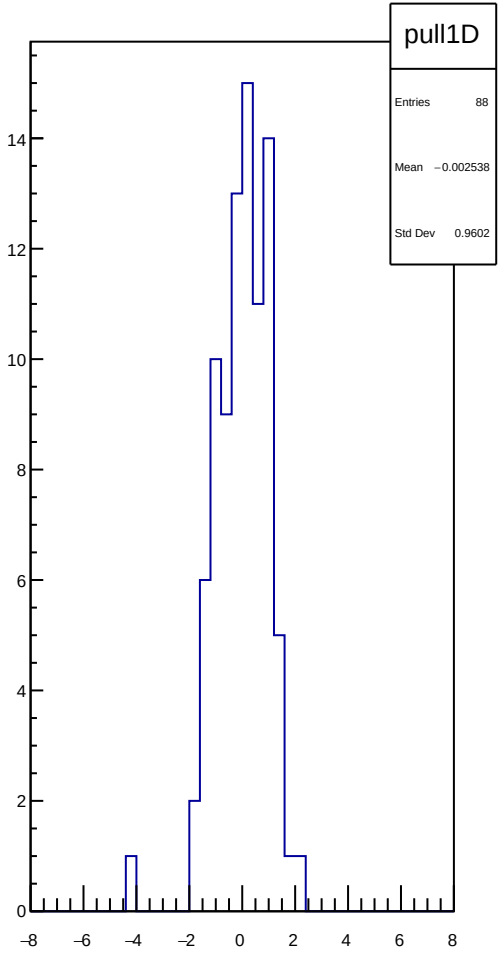

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 2.601e+04 / 87
p0 69.84 ± 0.05412
160
140
120
100
80
60

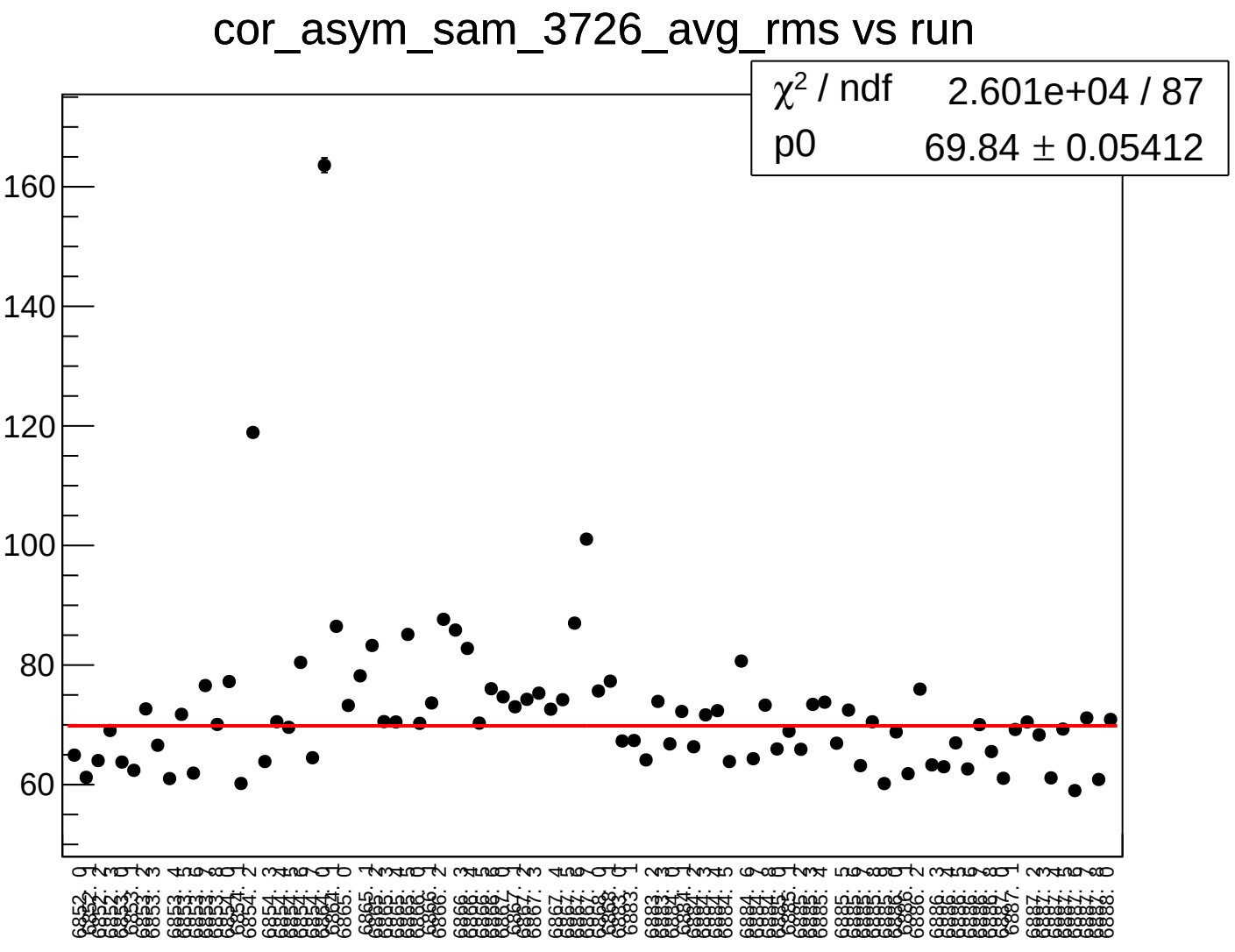

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 75.67 / 87
p0 −2155 ± 903.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 712.4
Std Dev 0
2
1
0
−1
−2

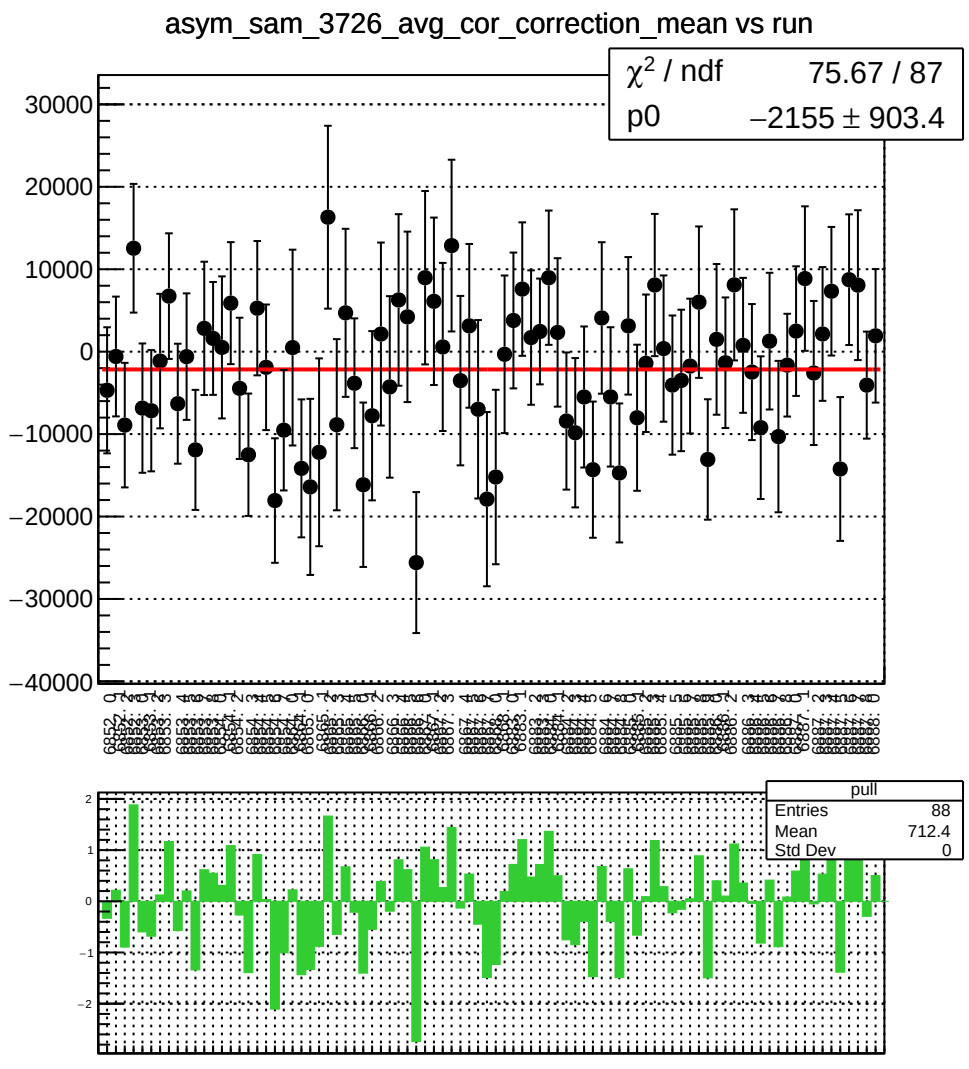

pull1D
Entries 88
Mean 0.004734
Std Dev 0.9273
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

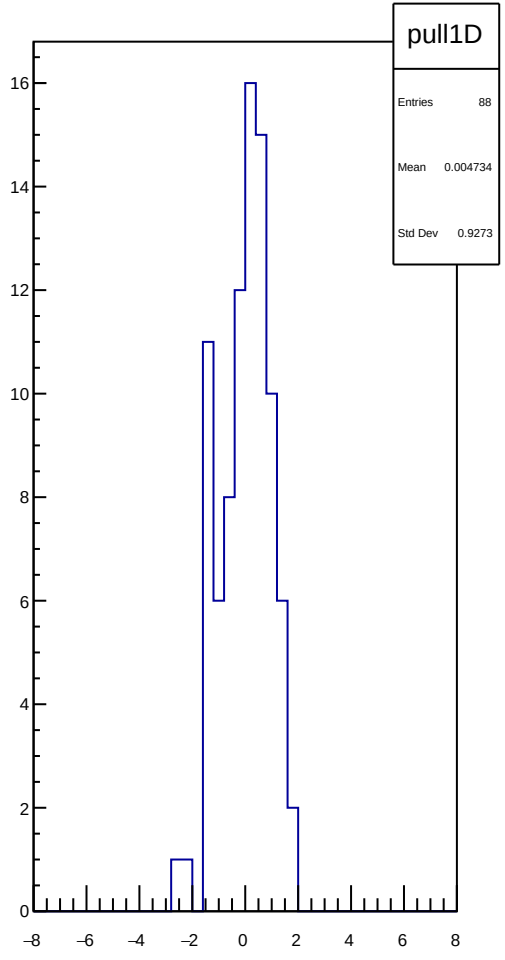

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 2.783e+04 / 87
p0 823.8 ± 0.6388
1100
1000
900
800
700

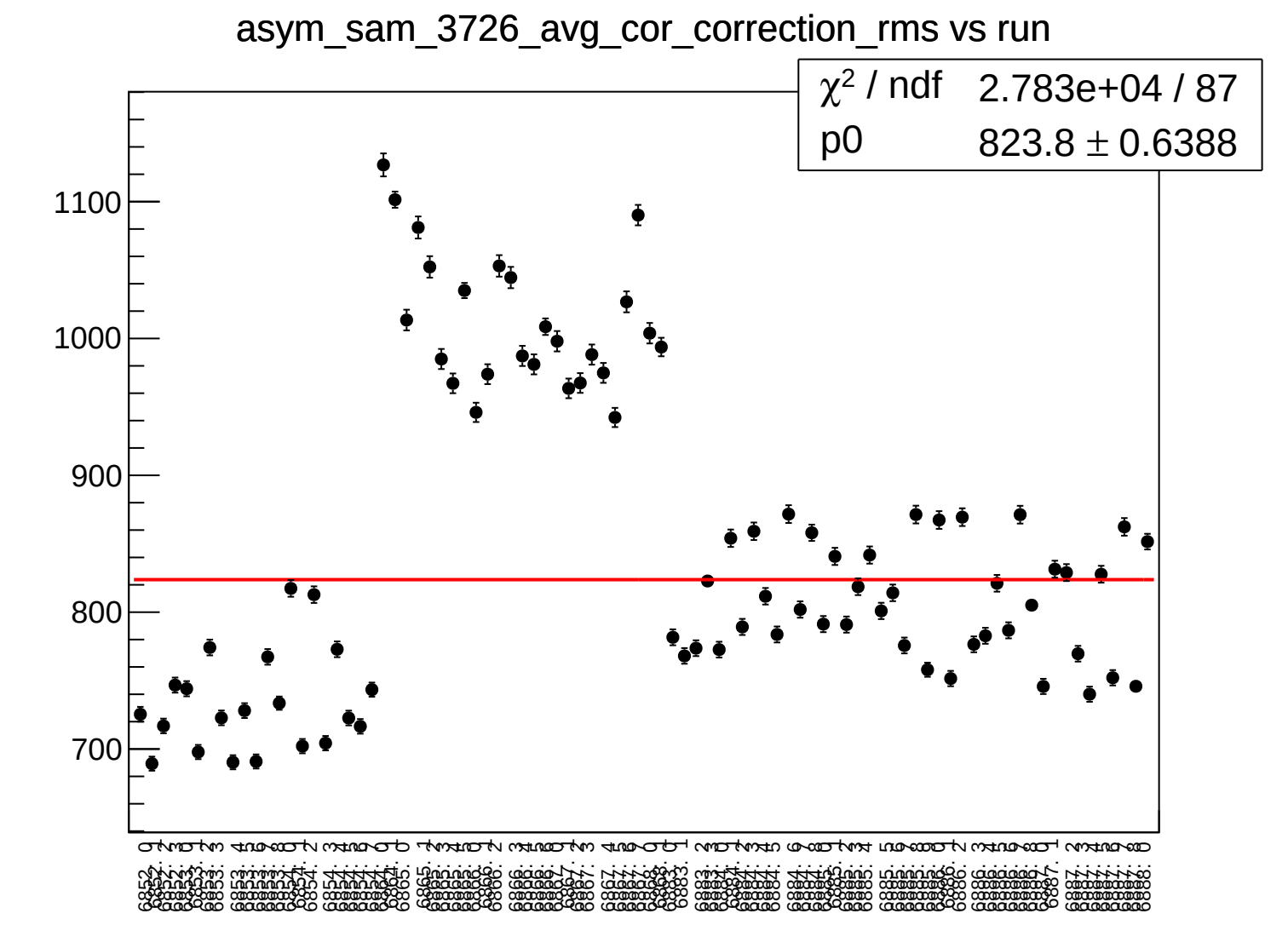

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 81.14 / 87
p0 −100.6 ± 76.54
pull
Entries 88
Mean −586.5
Std Dev 0

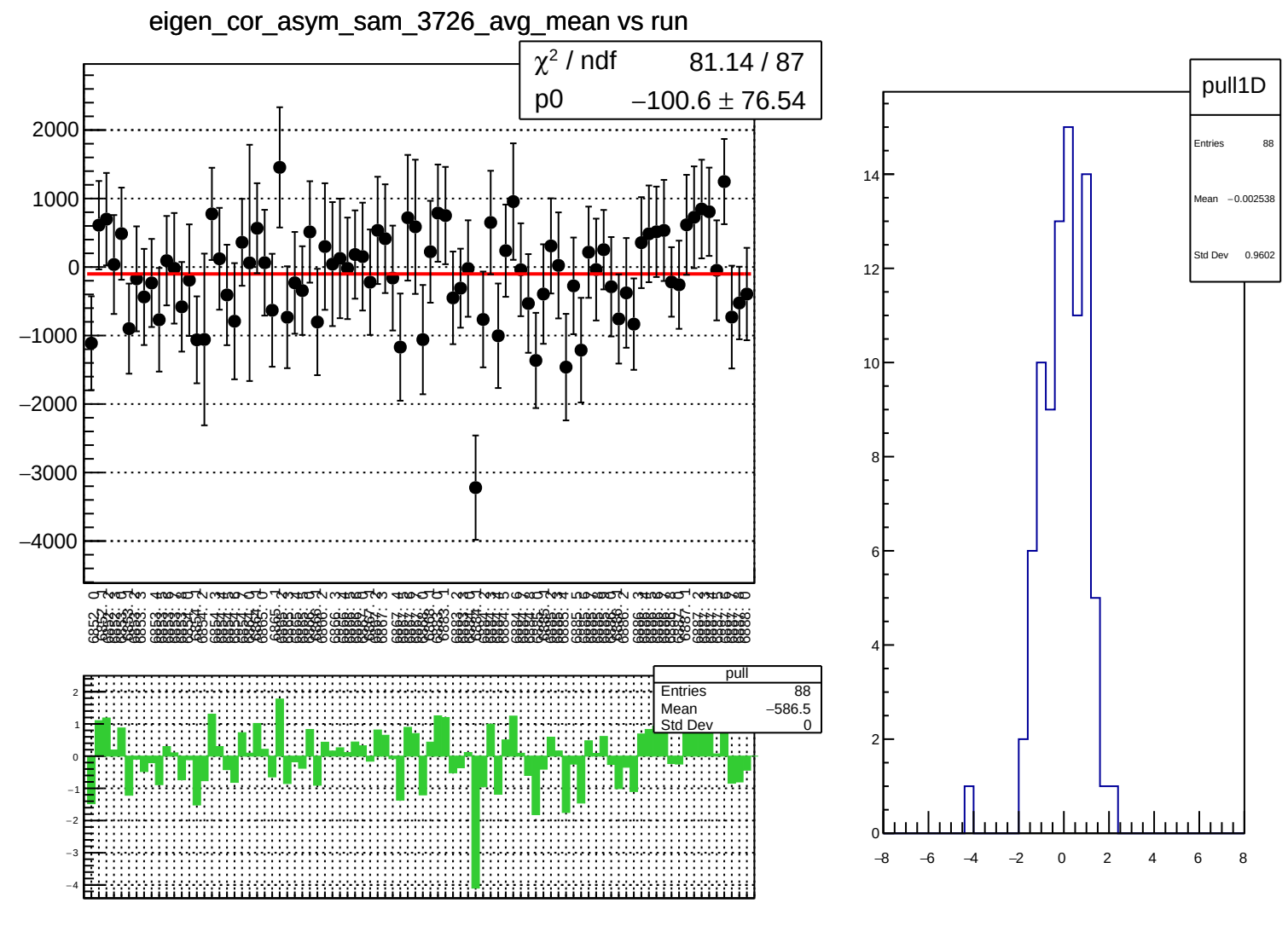

pull1D
Entries 88
Mean −0.002538
Std Dev 0.9602

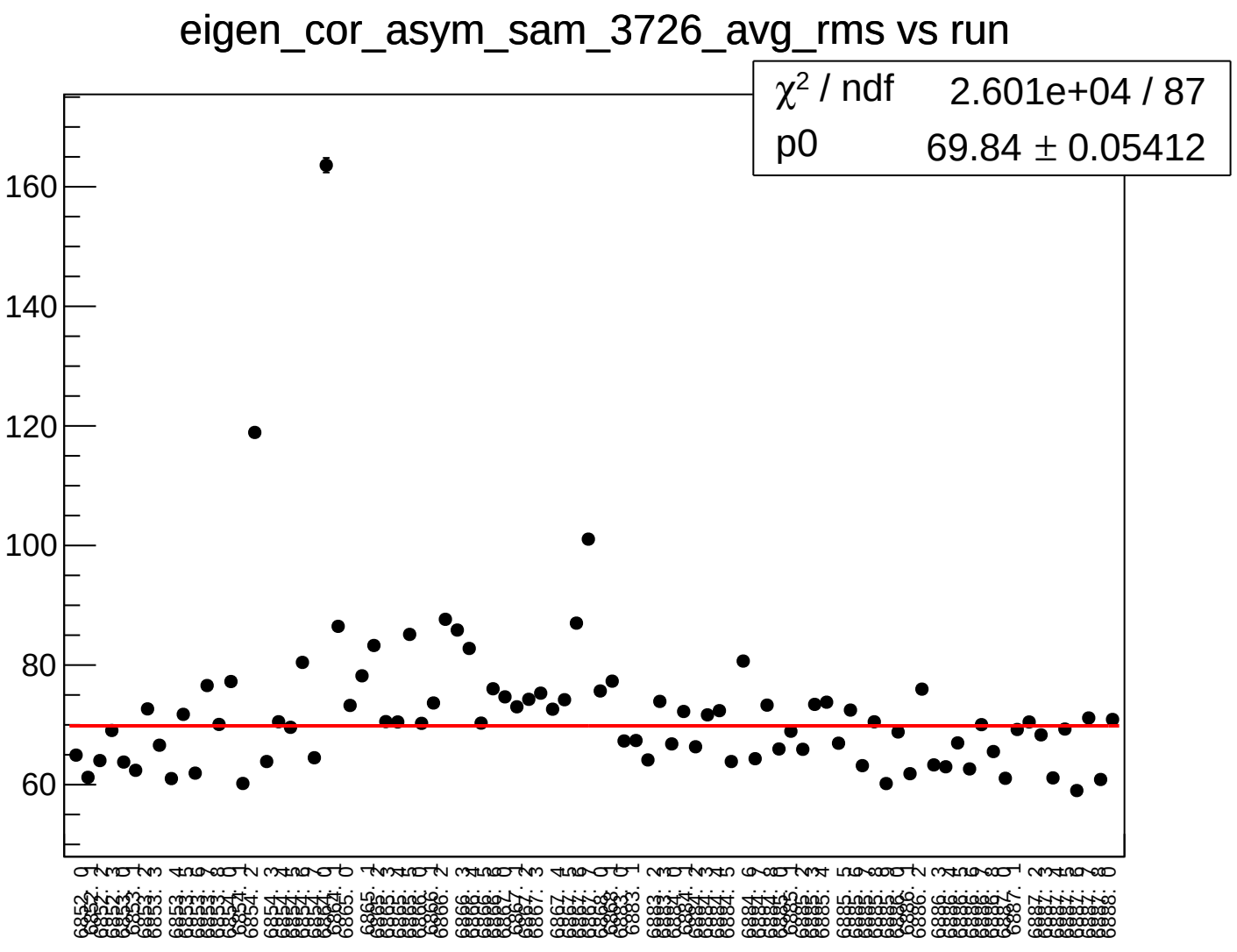

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 2.601e+04 / 87
p0 69.84 ± 0.05412
160
140
120
100
80
60

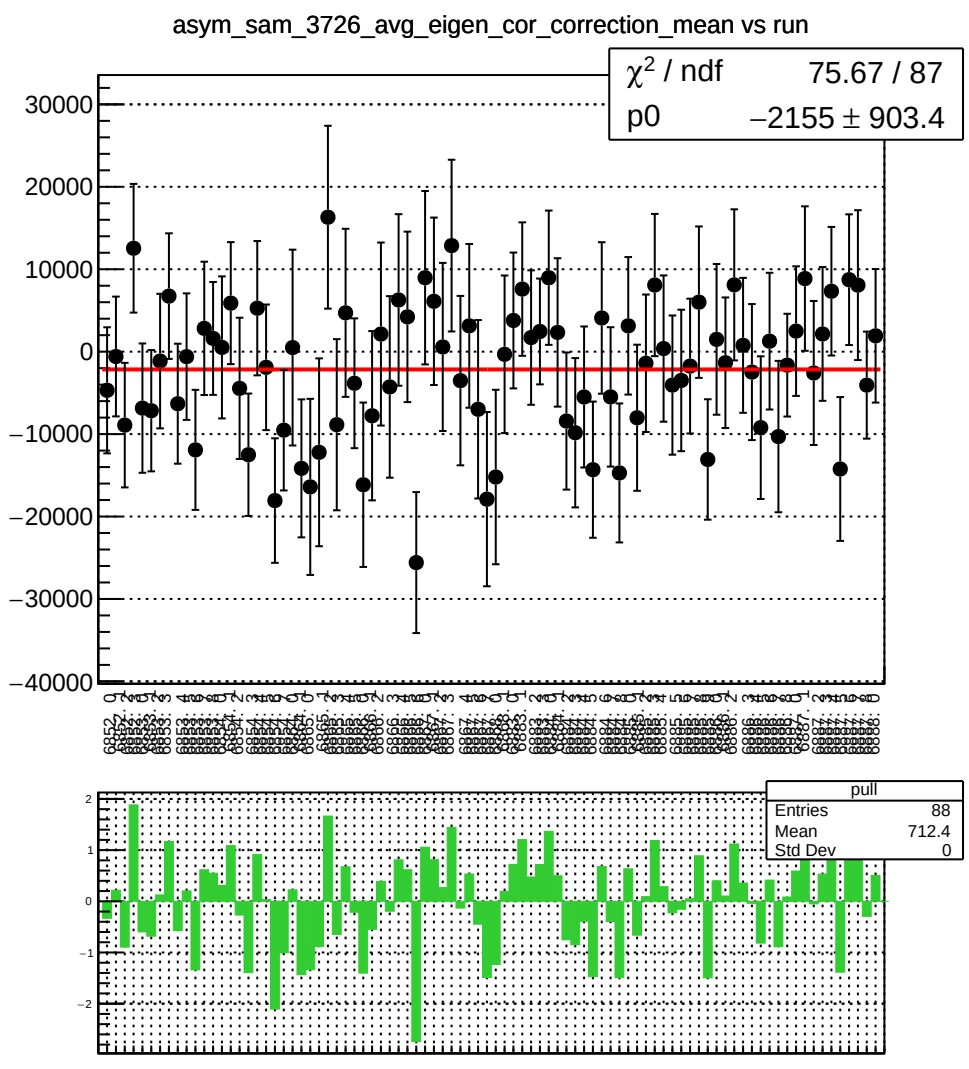

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 75.67 / 87
p0 −2155 ± 903.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 712.4
Std Dev 0
2
1
0
−1
−2

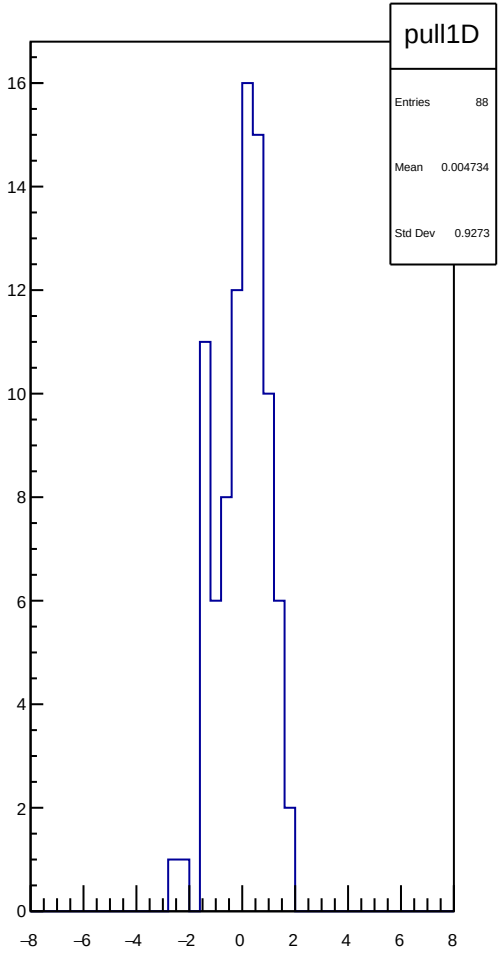

pull1D
Entries 88
Mean 0.004734
Std Dev 0.9273
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

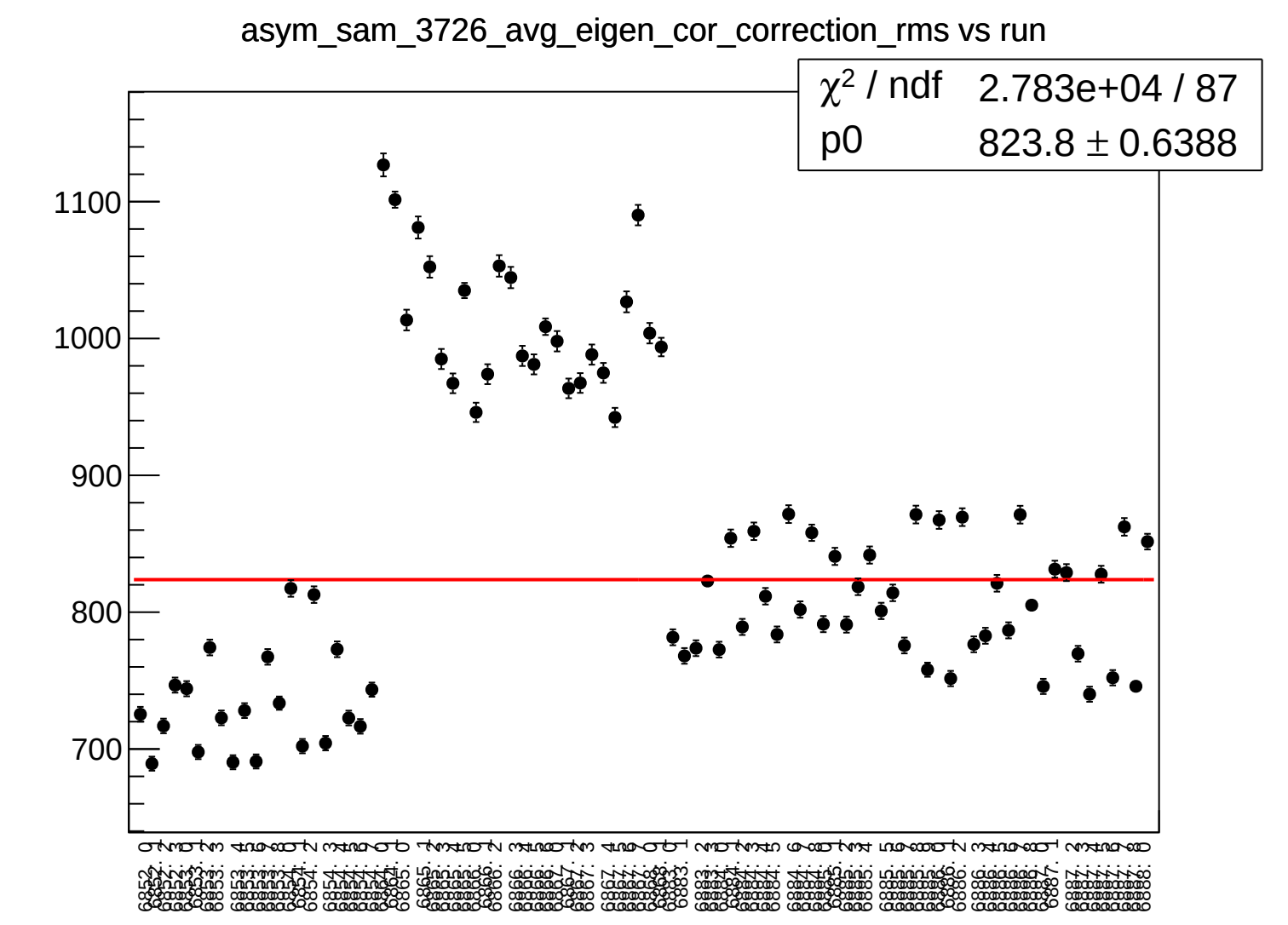

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 2.783e+04 / 87
p0 823.8 ± 0.6388
1100
1000
900
800
700

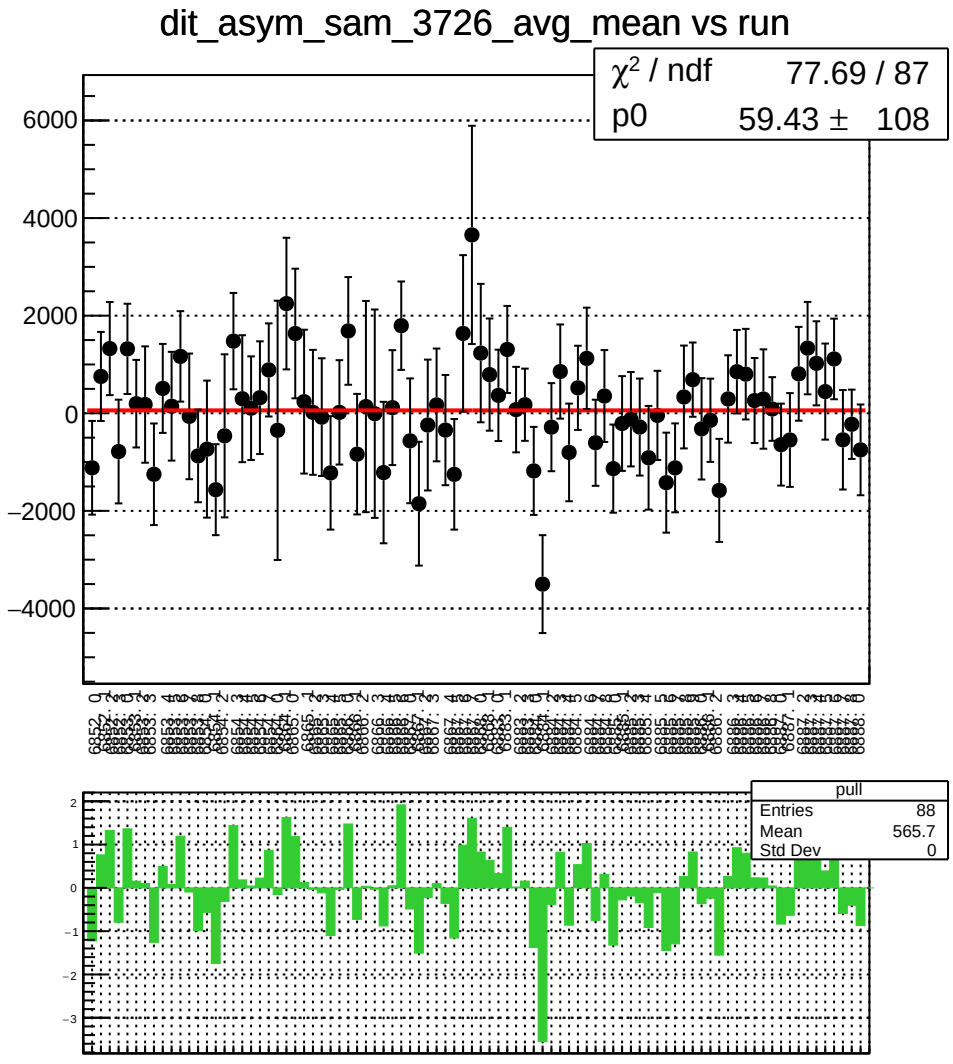

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 81.14 / 87
p0 −100.6 ± 76.54
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean −586.5
Std Dev 0
pull1D
Entries 88
Mean −0.002538
Std Dev 0.9602
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

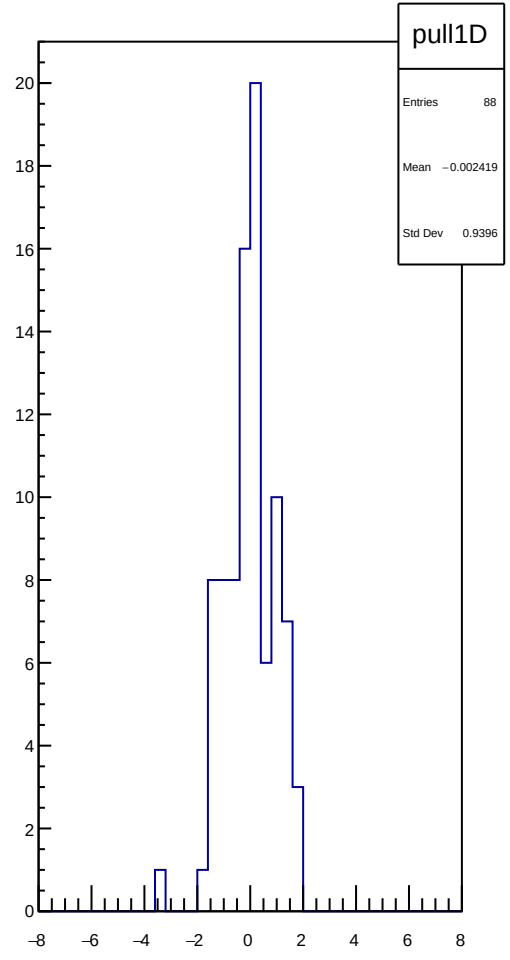

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 2.601e+04 / 87
p0 69.84 ± 0.05412
160
140
120
100
80
60

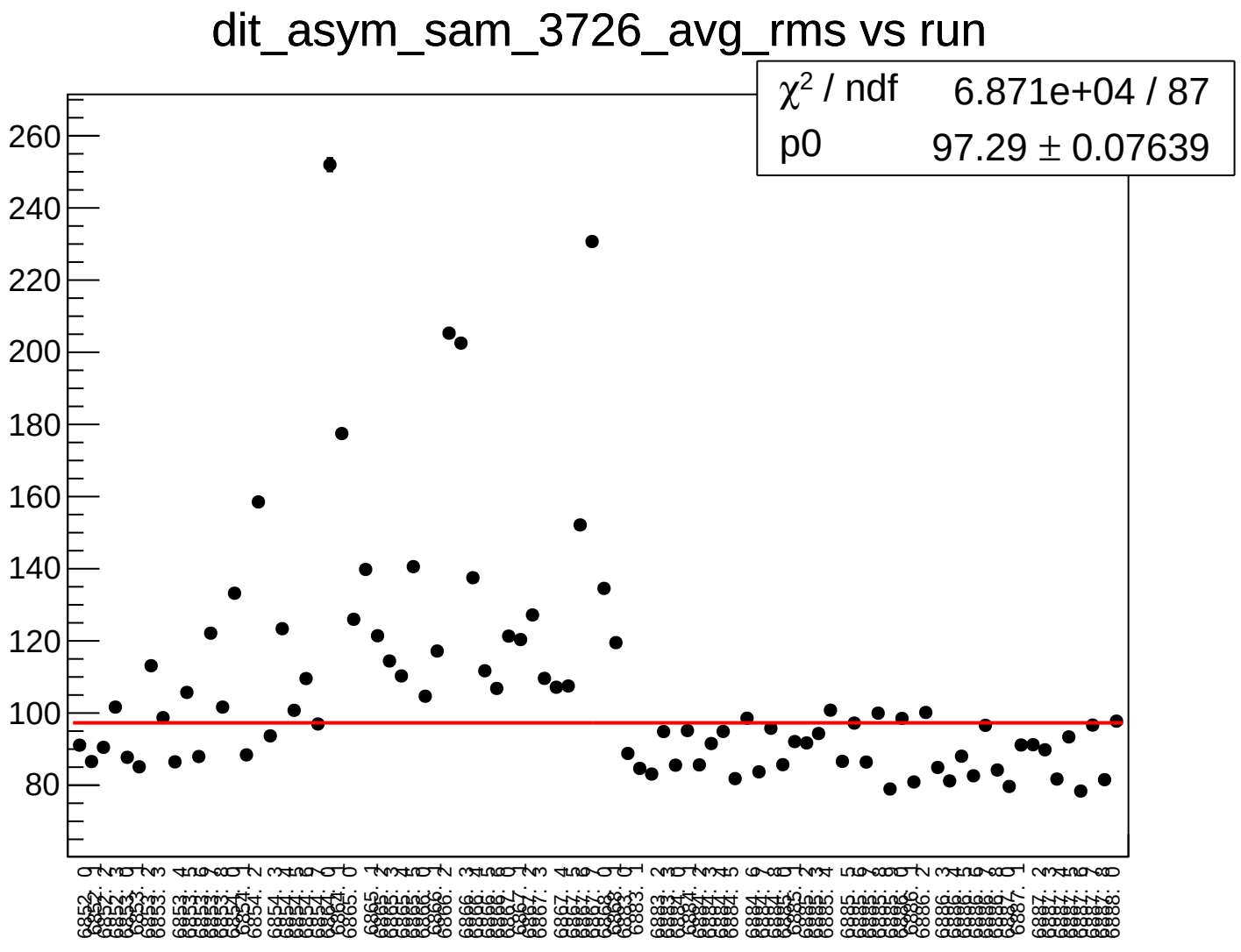

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.67 / 87
p0 −2155 ± 903.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 88
Mean 712.4
Std Dev 0
2
1
0
−1
−2

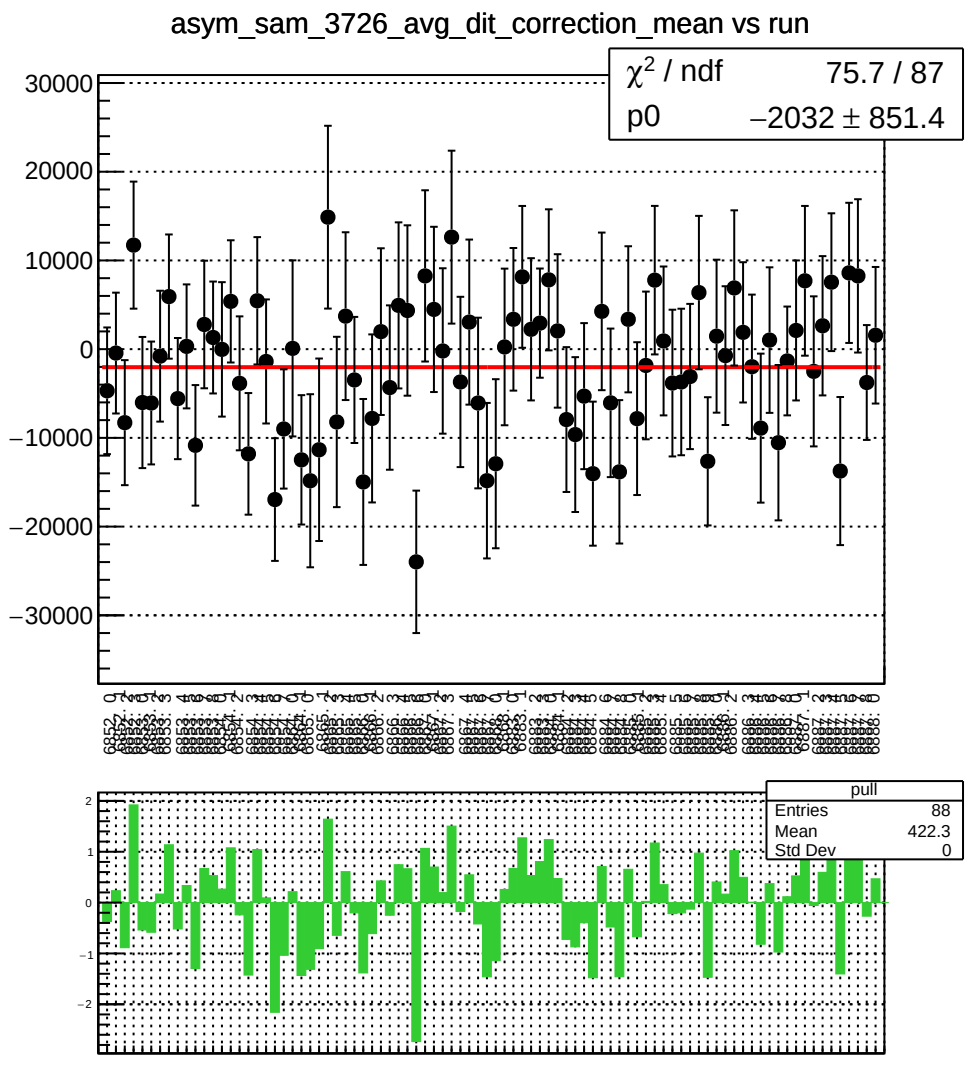

pull1D
Entries 88
Mean 0.004734
Std Dev 0.9273
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

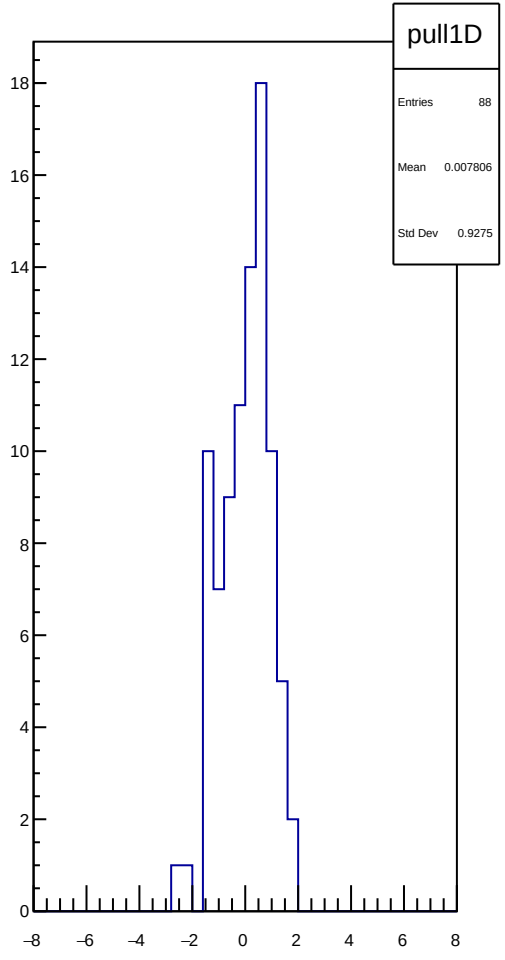

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.783e+04 / 87
p0 823.8 ± 0.6388
1100
1000
900
800
700

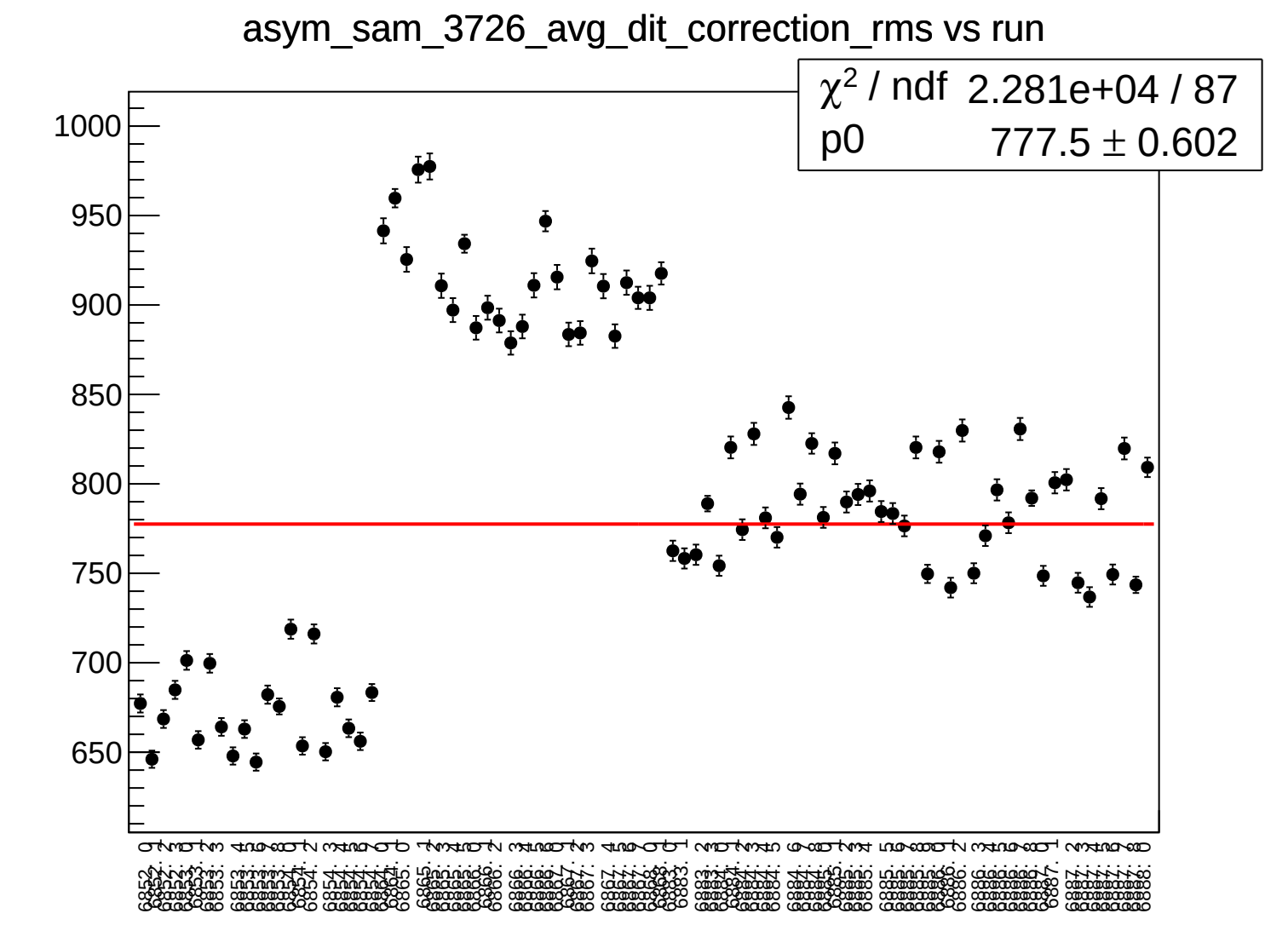

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 77.69 / 87
p0 59.43 ± 108
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 565.7
Std Dev 0
2
1
0
−1
−2
−3

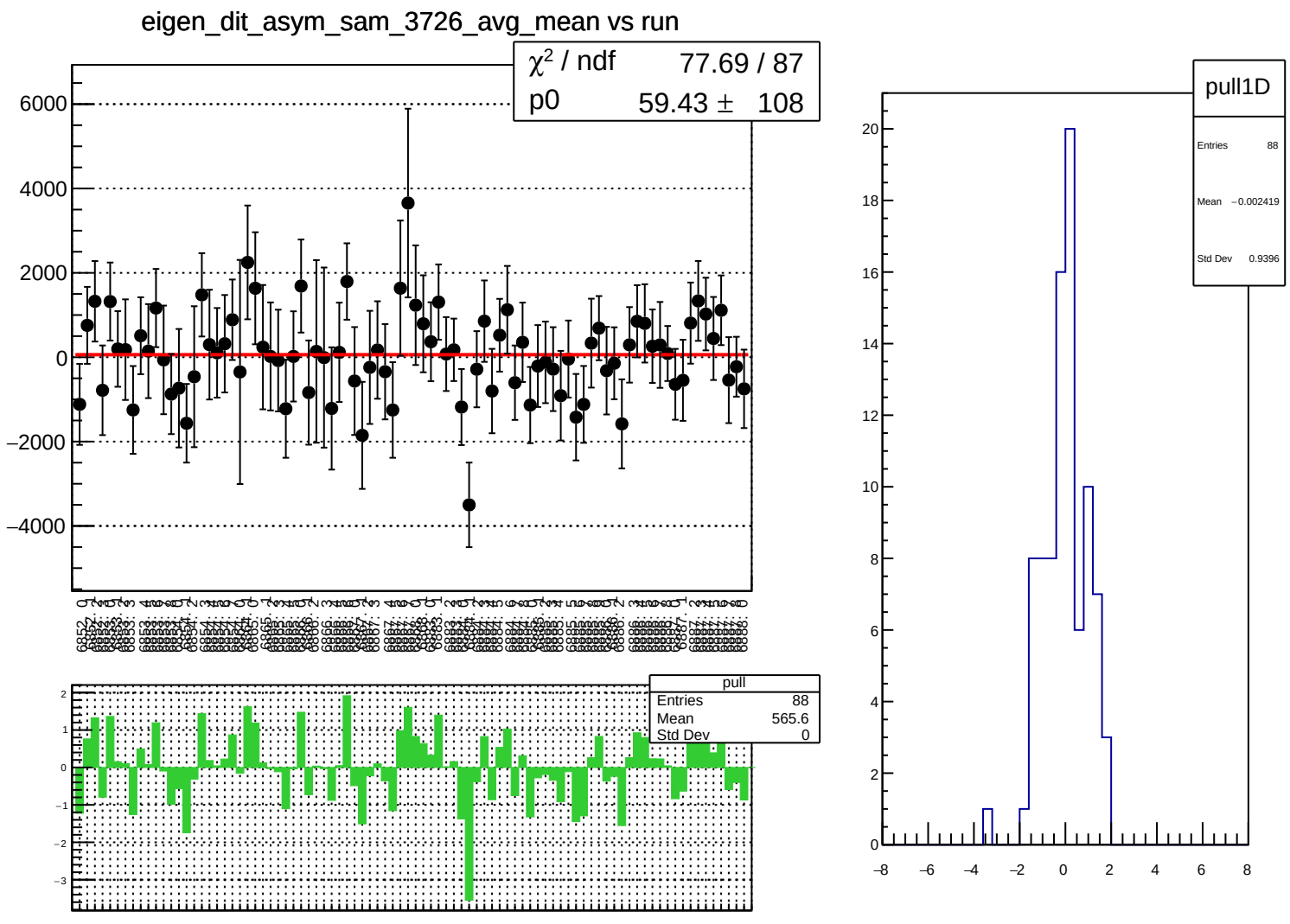

pull1D
Entries 88
Mean −0.002419
Std Dev 0.9396
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

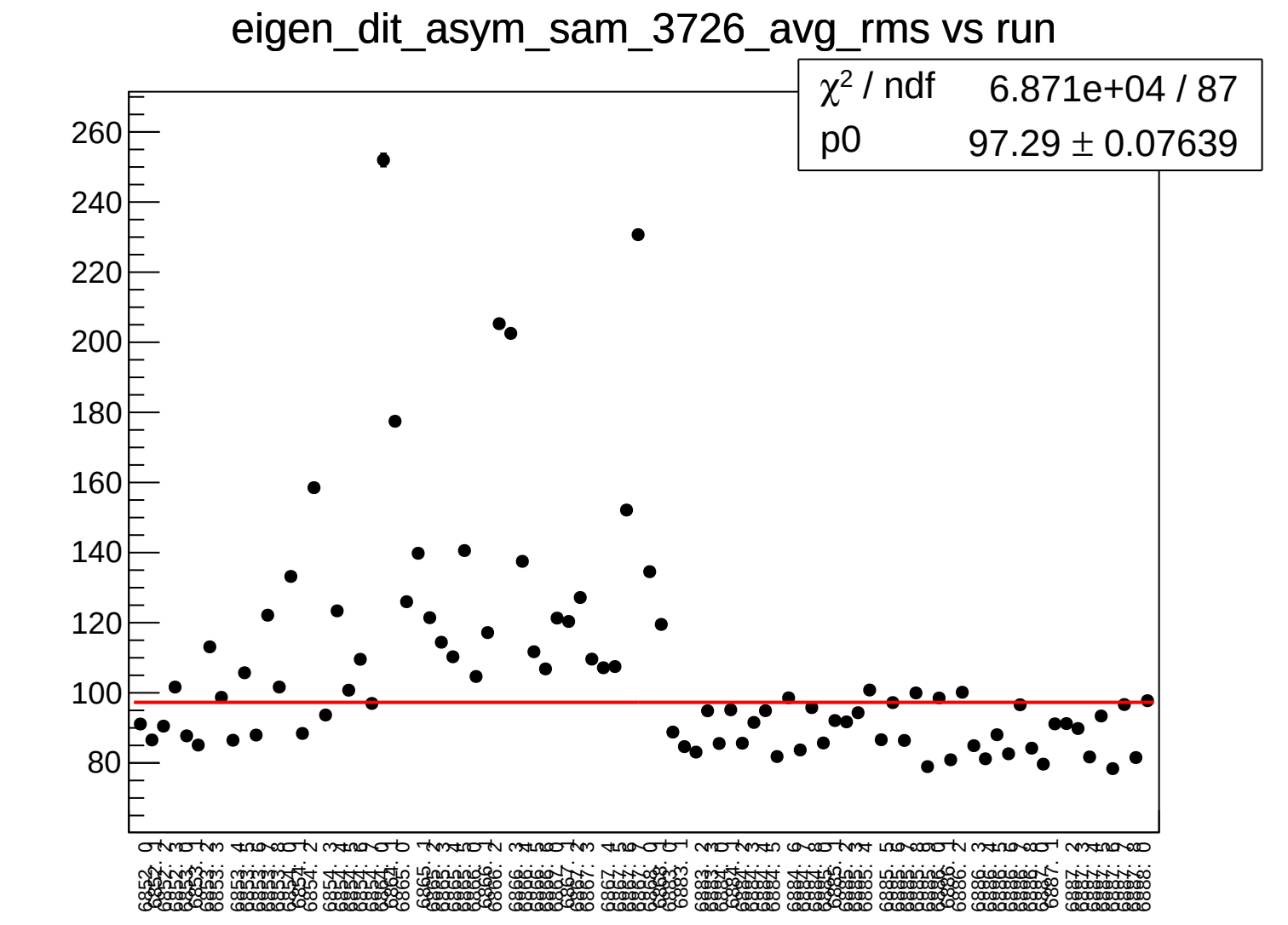

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 6.871e+04 / 87
p0 97.29 ± 0.07639
260
240
220
200
180
160
140
120
100
80

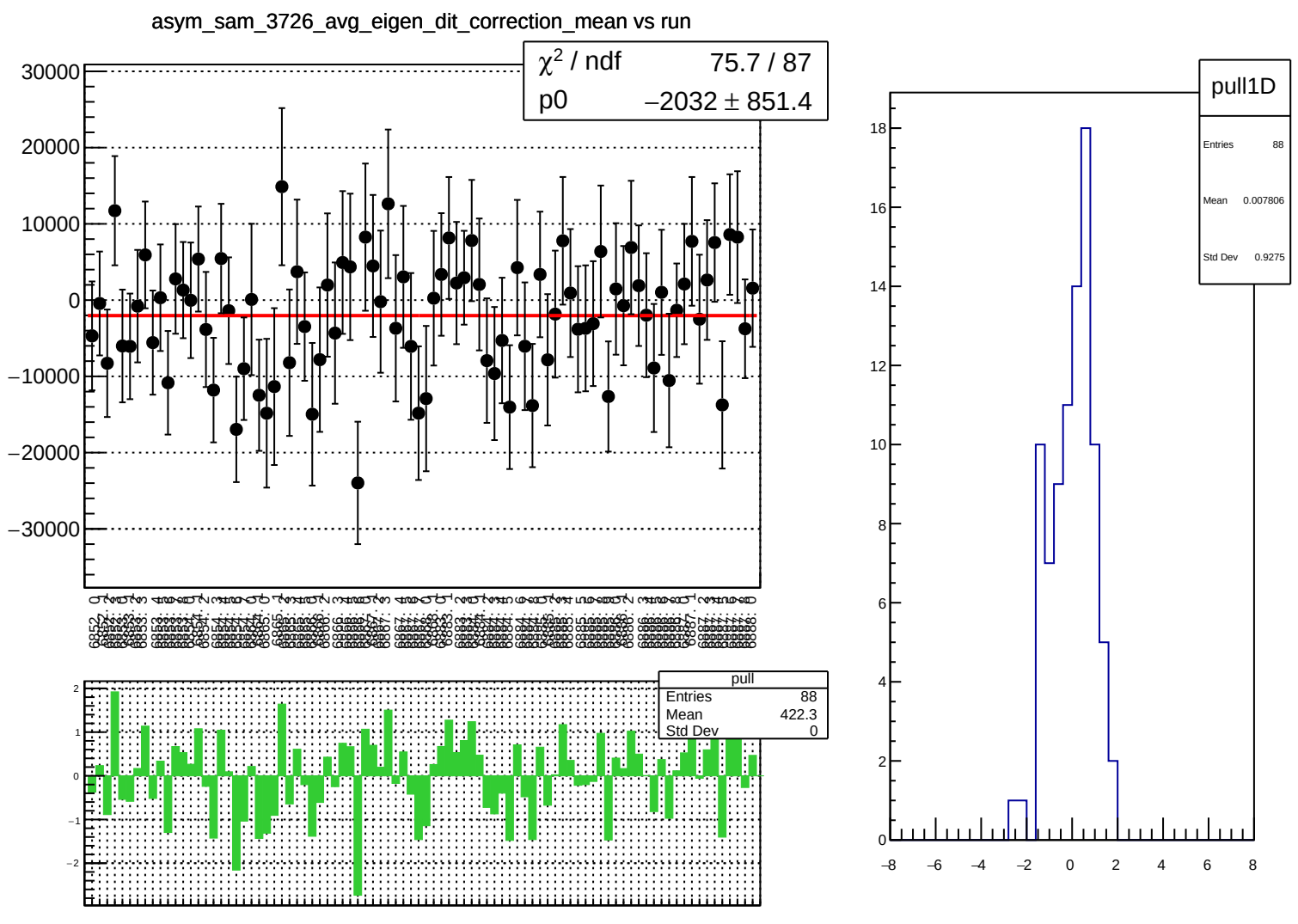

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 75.7 / 87
p0 −2032 ± 851.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 422.3
Std Dev 0
2
1
0
−1
−2

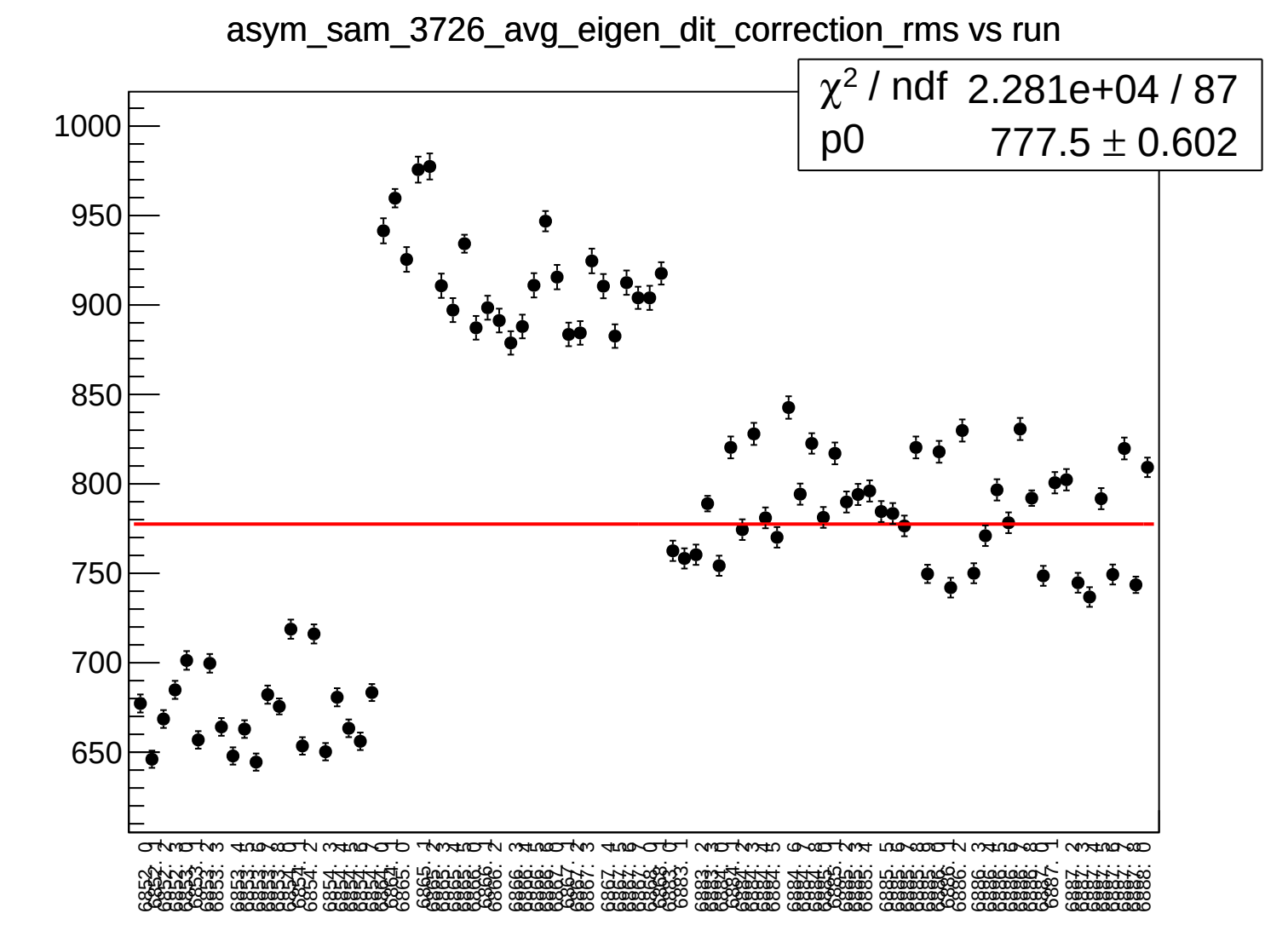

pull1D
Entries 88
Mean 0.007806
Std Dev 0.9275
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

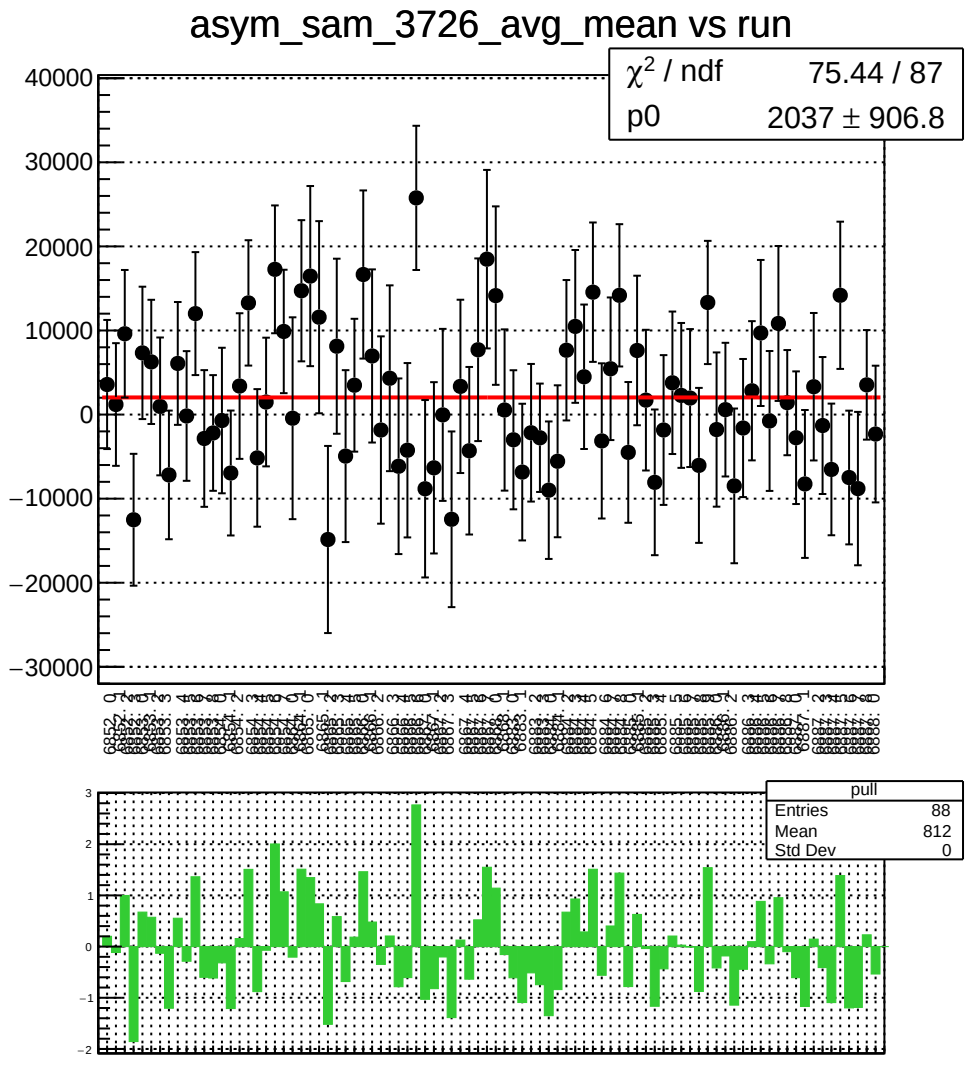

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 2.281e+04 / 87
p0 777.5 ± 0.602
1000
950
900
850
800
750
700
650

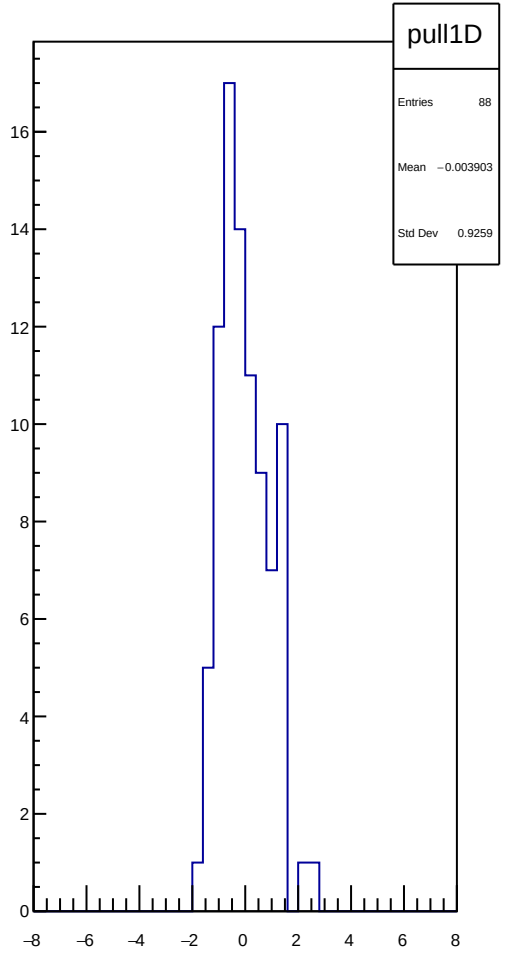

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 77.69 / 87
p0 59.43 ± 108
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 565.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.002419
Std Dev 0.9396
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

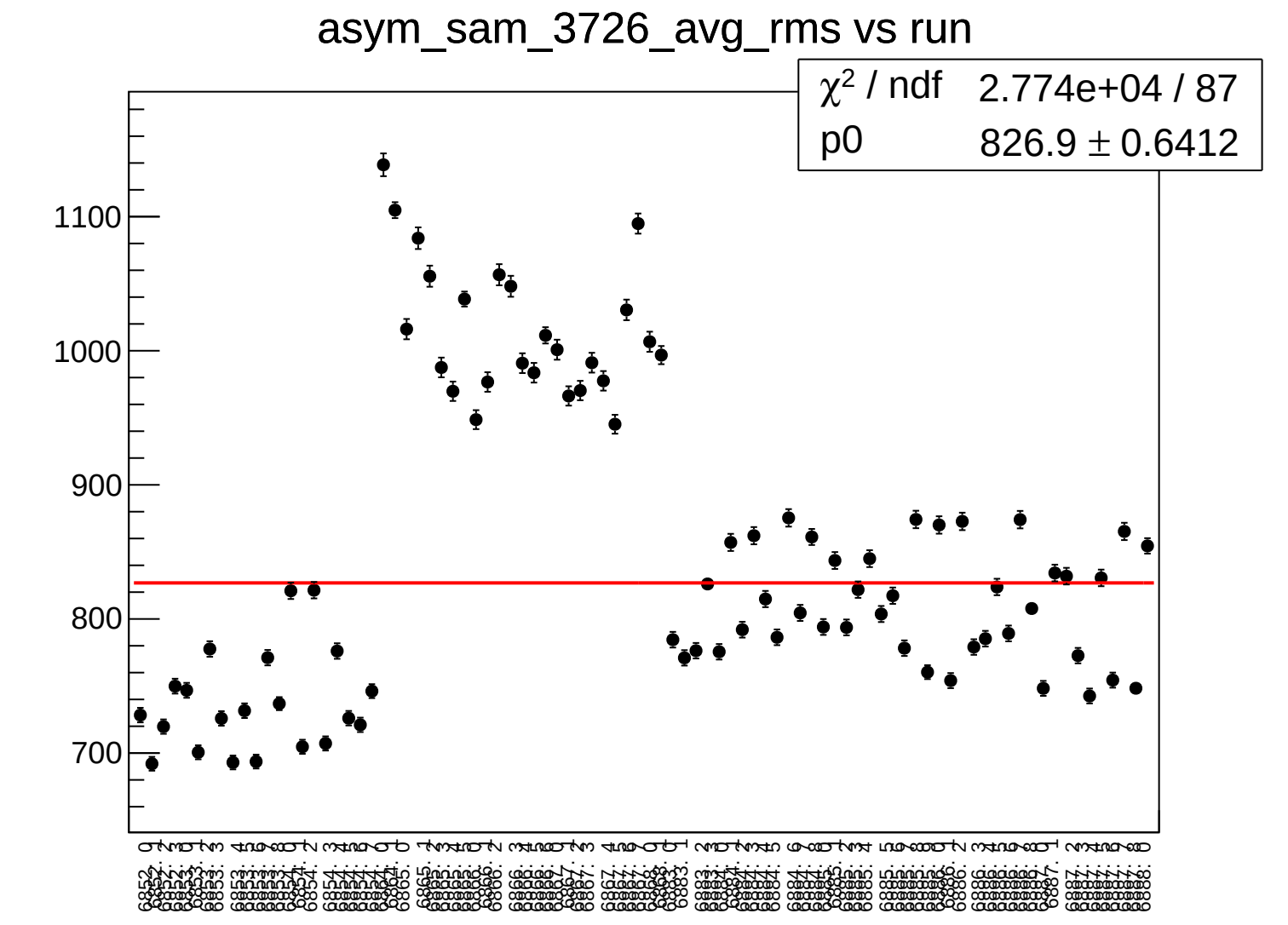

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 6.871e+04 / 87
p0 97.29 ± 0.07639
260
240
220
200
180
160
140
120
100
80

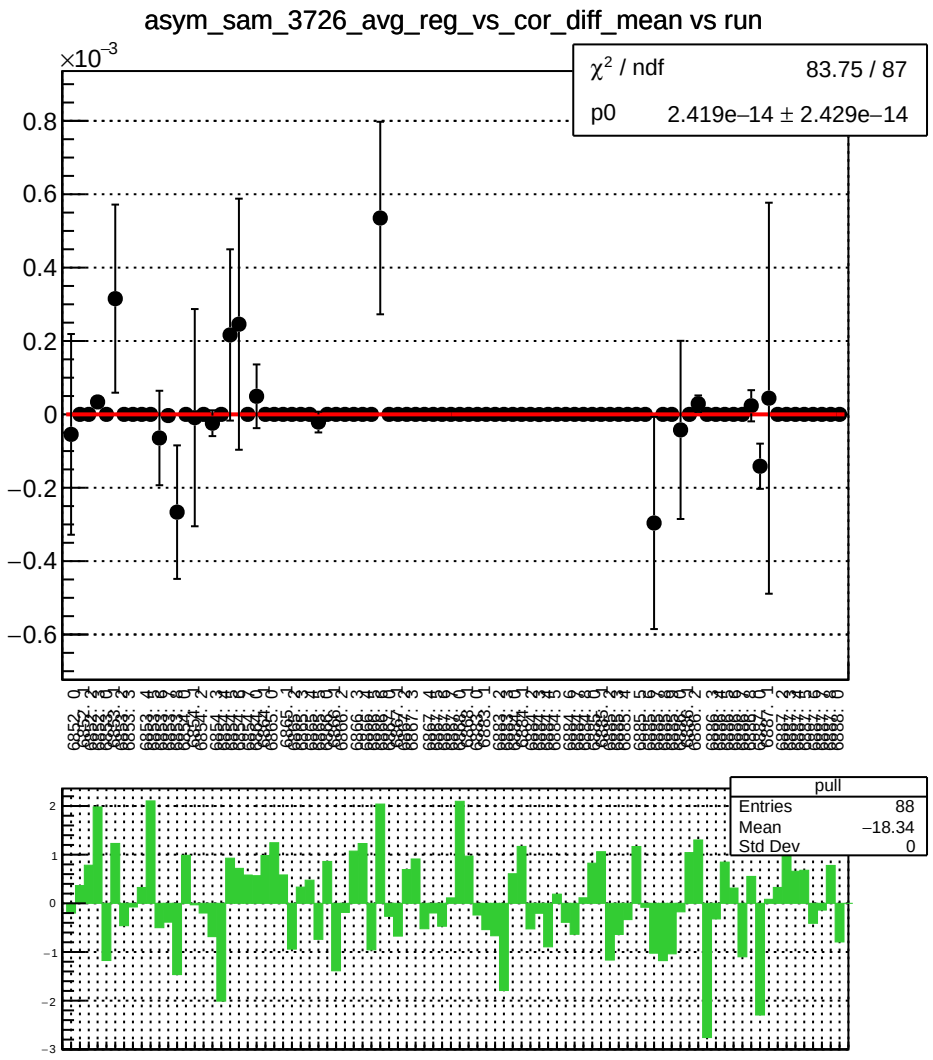

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.7 / 87
p0 −2032 ± 851.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 422.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.007806
Std Dev 0.9275
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

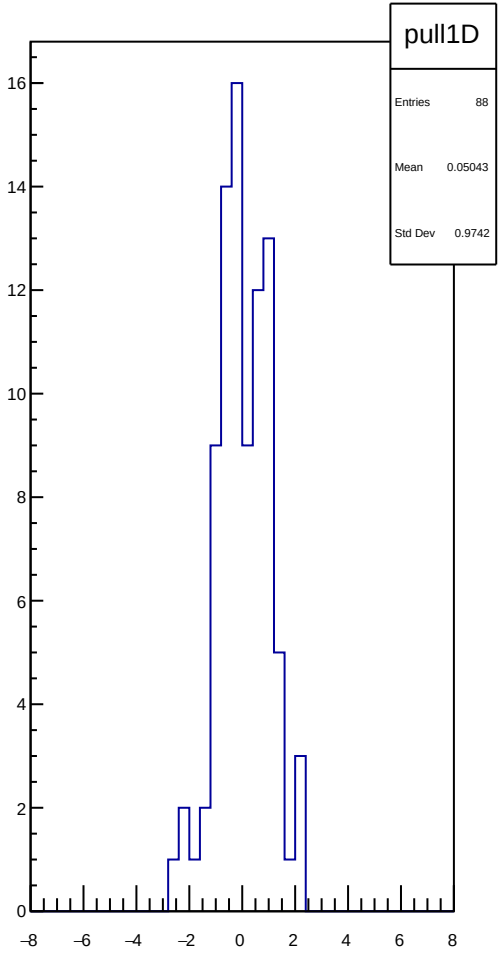

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.281e+04 / 87
p0 777.5 ± 0.602
1000
950
900
850
800
750
700
650

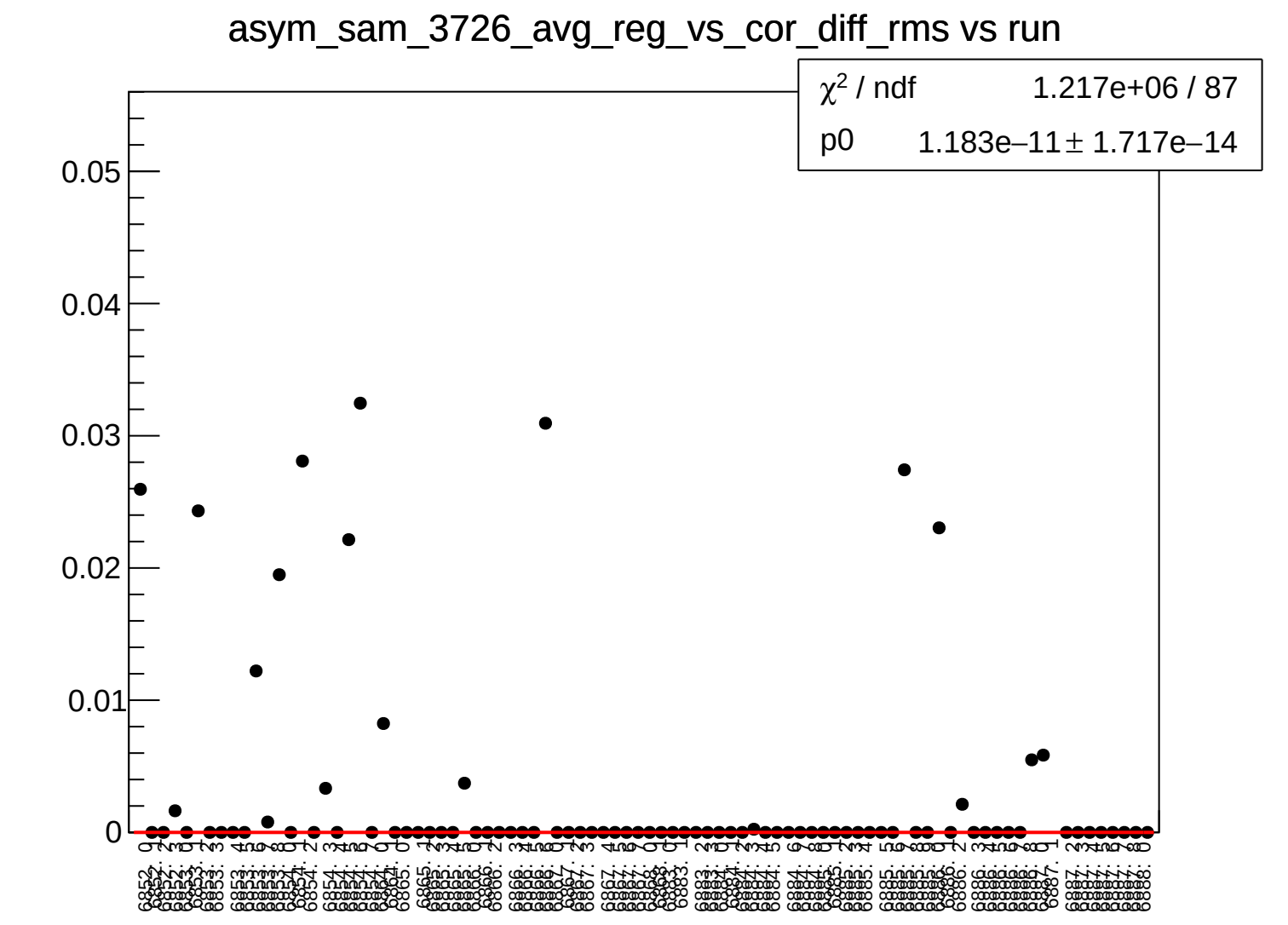

asym_sam_3726_avg_mean vs run
χ² / ndf 75.44 / 87
p0 2037 ± 906.8
pull
Entries 88
Mean 812
Std Dev 0

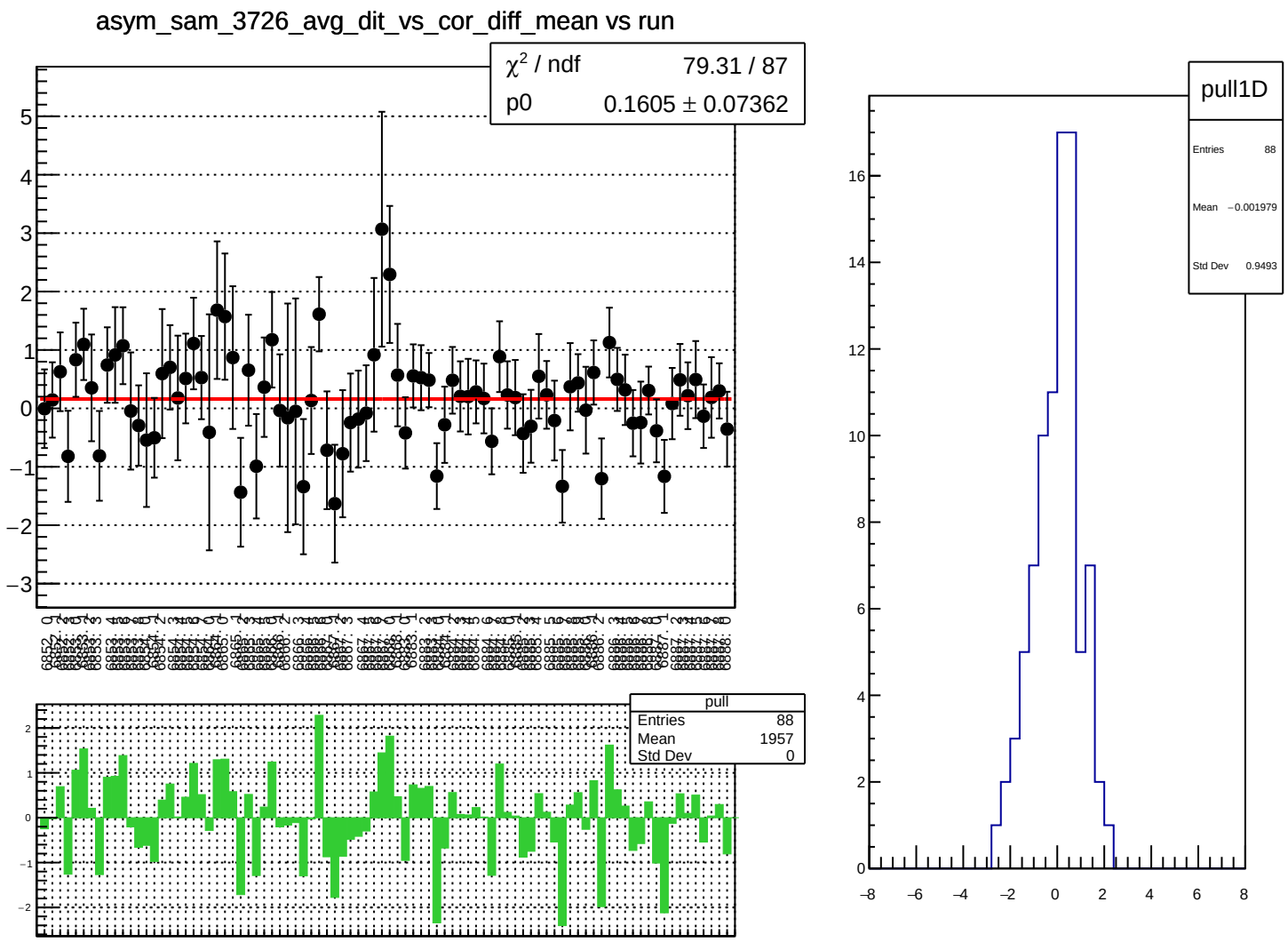

pull1D
Entries 88
Mean −0.003903
Std Dev 0.9259

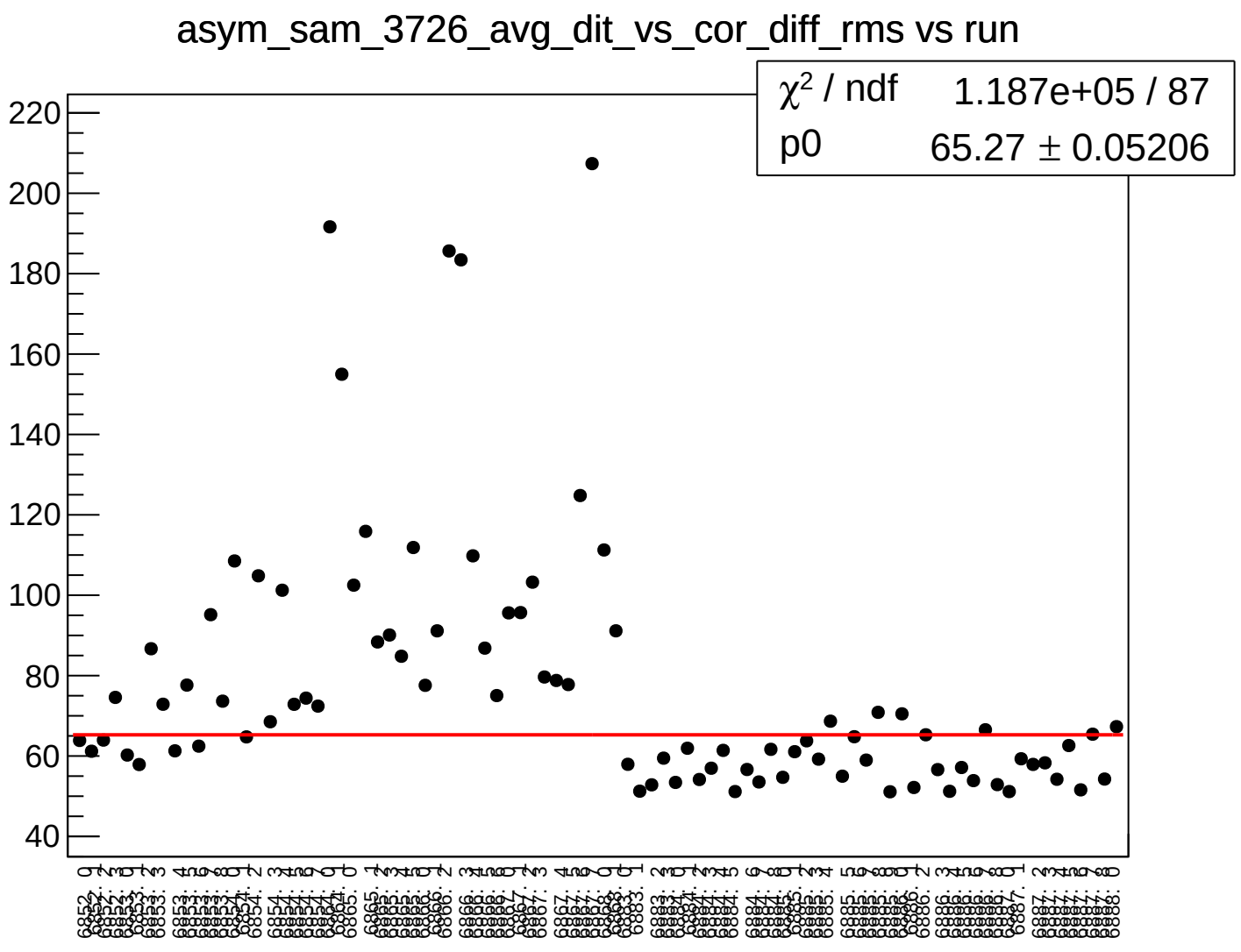

asym_sam_3726_avg_rms vs run
χ² / ndf 2.774e+04 / 87
p0 826.9 ± 0.6412
1100
1000
900
800
700

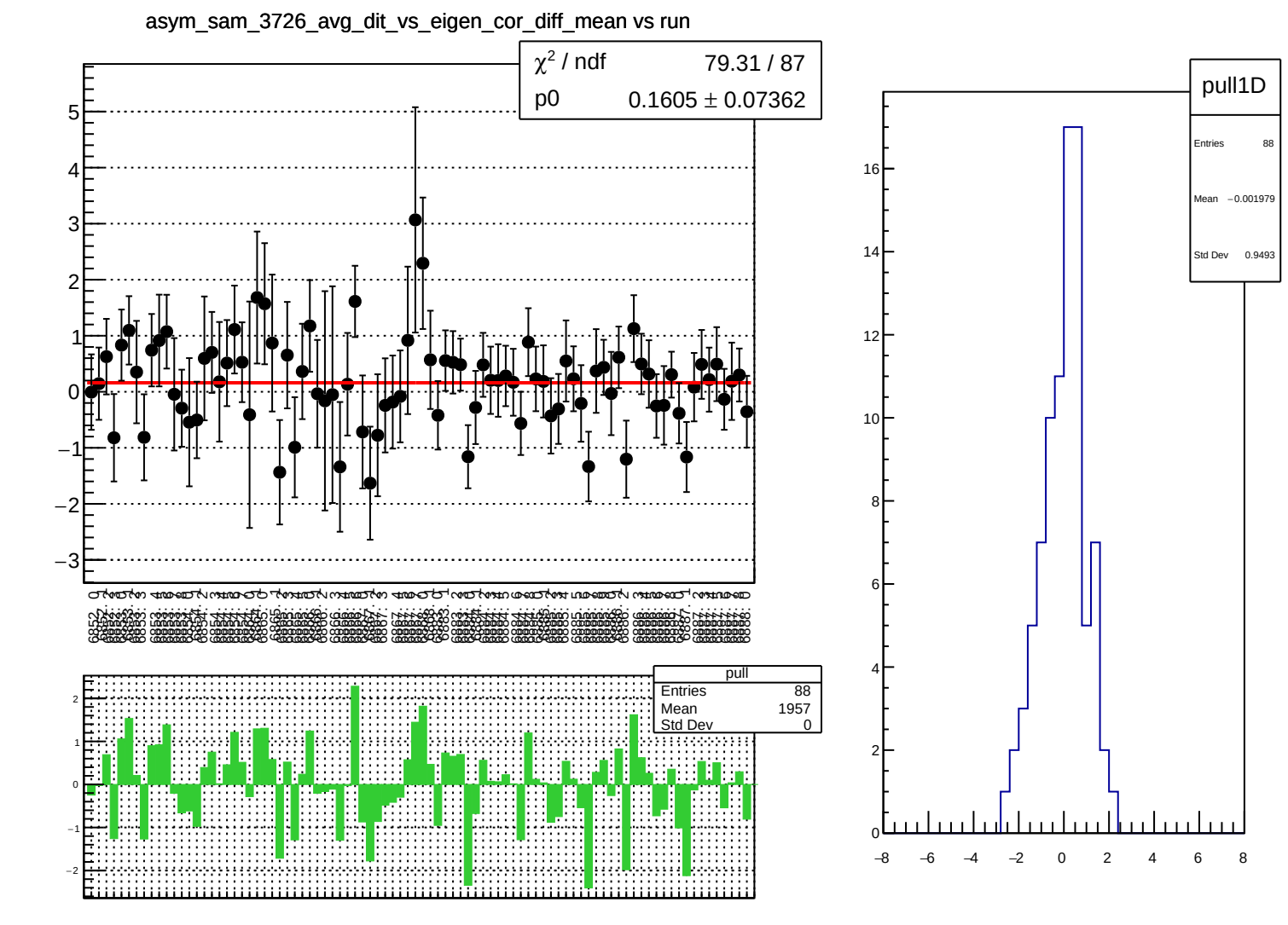

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 83.75 / 87
p0 2.419e−14 ± 2.429e−14
pull
Entries 88
Mean −18.34
Std Dev 0

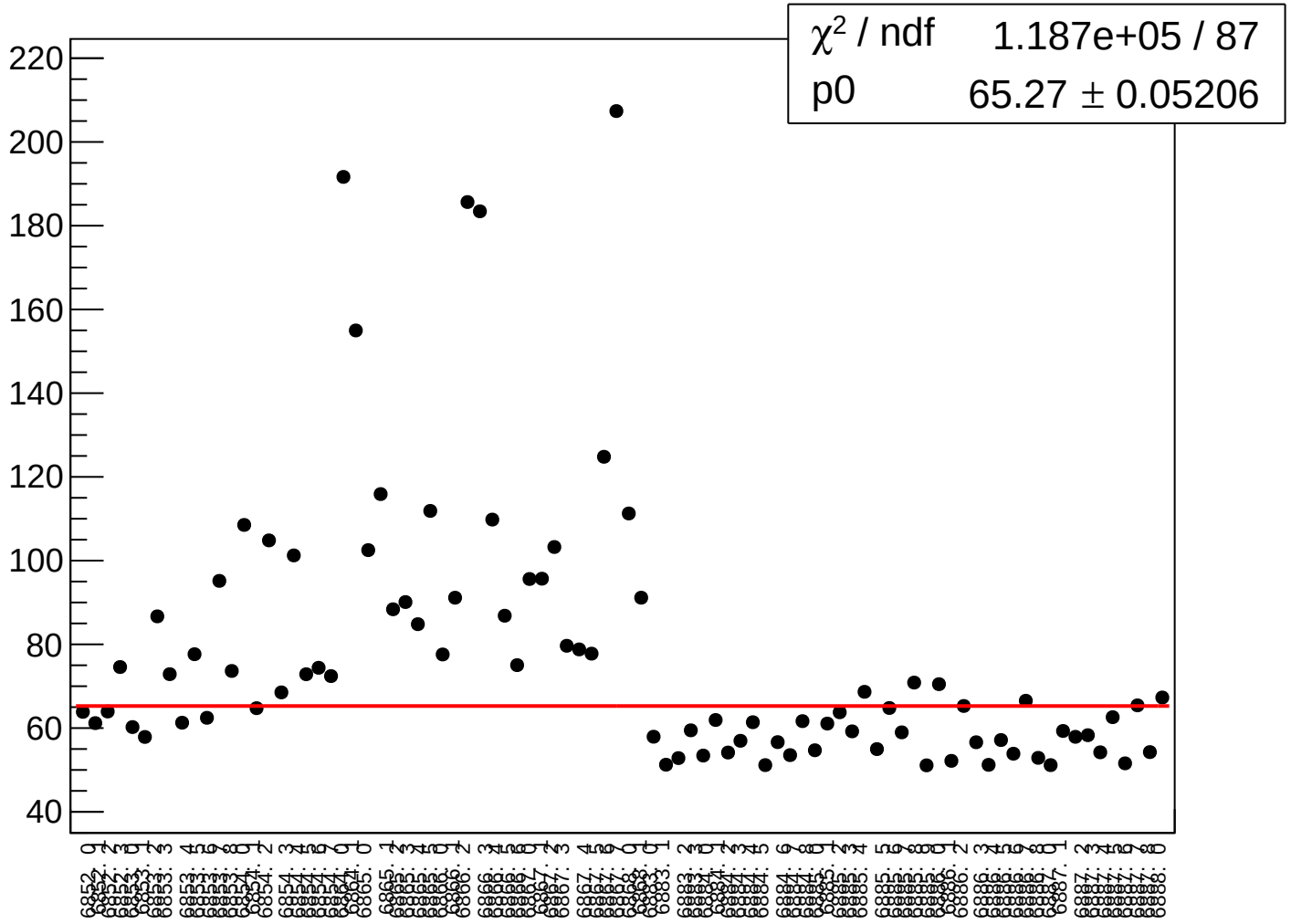

pull1D
Entries 88
Mean 0.05043
Std Dev 0.9742

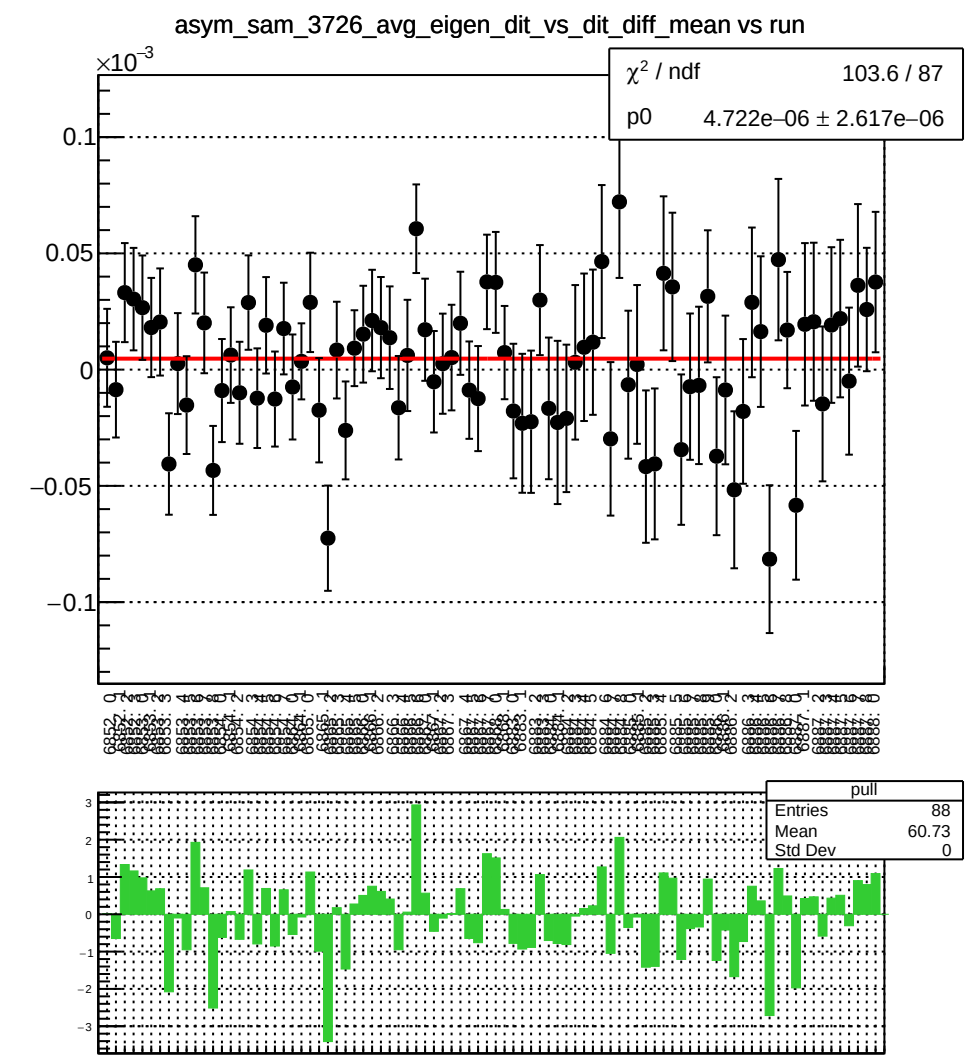

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.217e+06 / 87
p0 1.183e−11 ± 1.717e−14
0.05
0.04
0.03
0.02
0.01
0

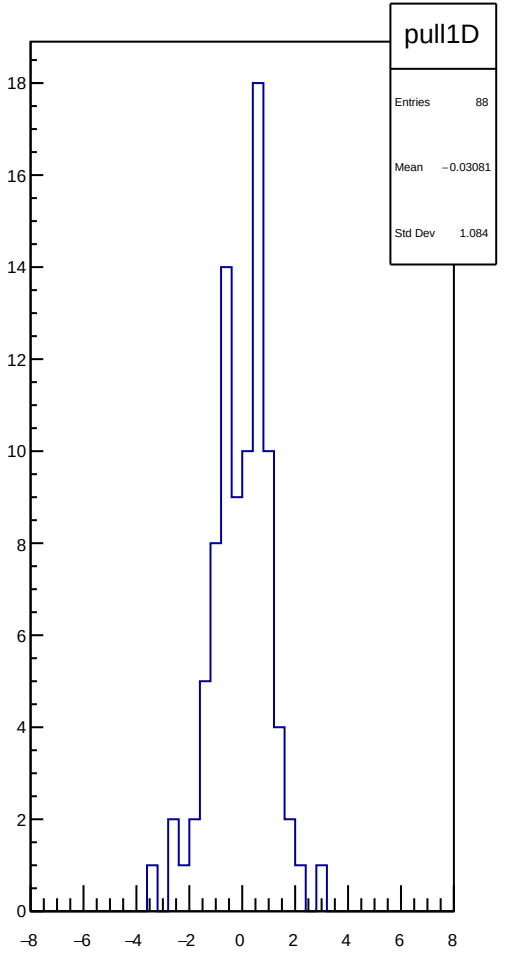

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.31 / 87
p0 0.1605 ± 0.07362
pull
Entries 88
Mean 1957
Std Dev 0
pull1D
Entries 88
Mean −0.001979
Std Dev 0.9493

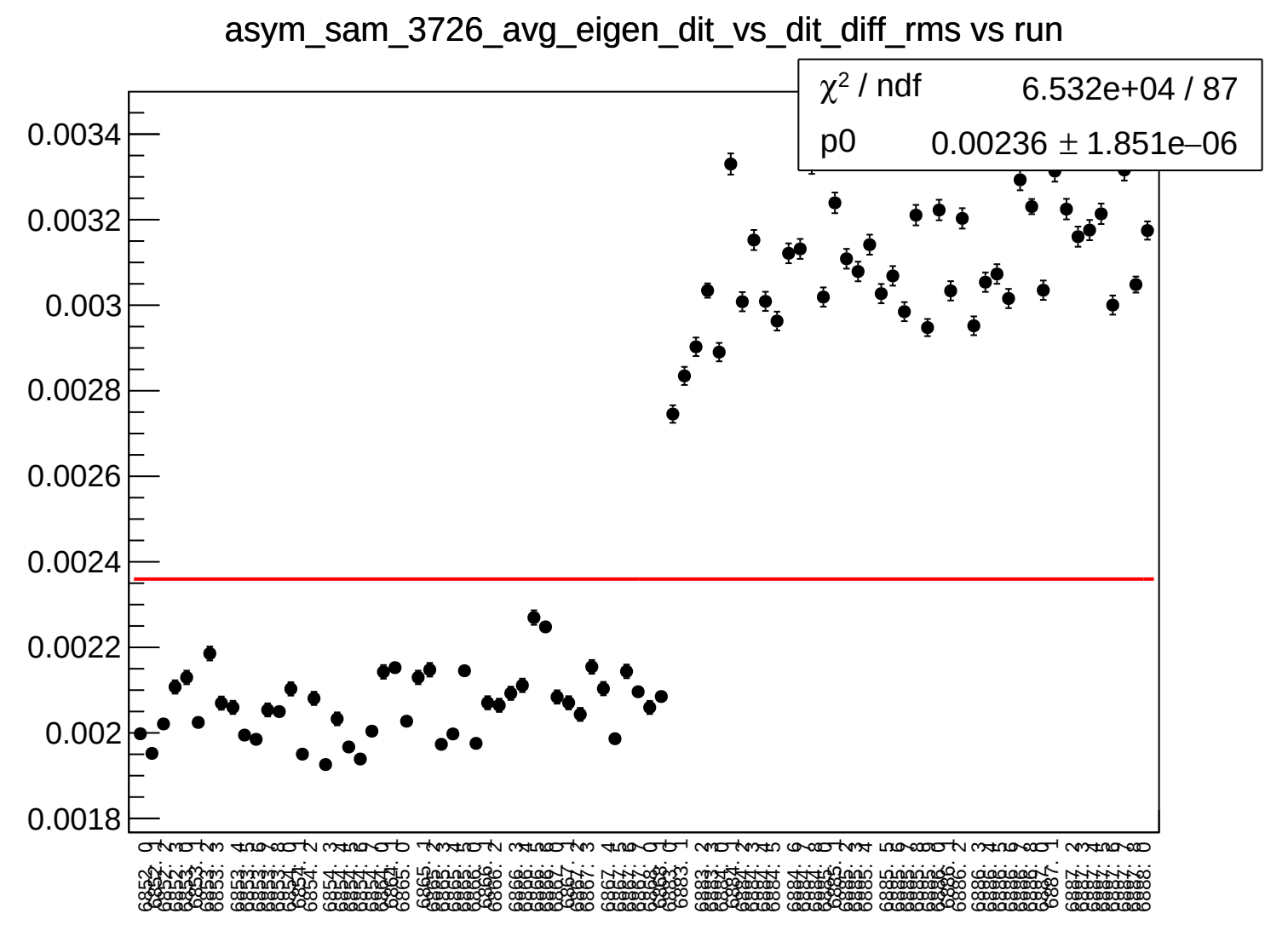

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.187e+05 / 87
p0 65.27 ± 0.05206
220
200
180
160
140
120
100
80
60
40

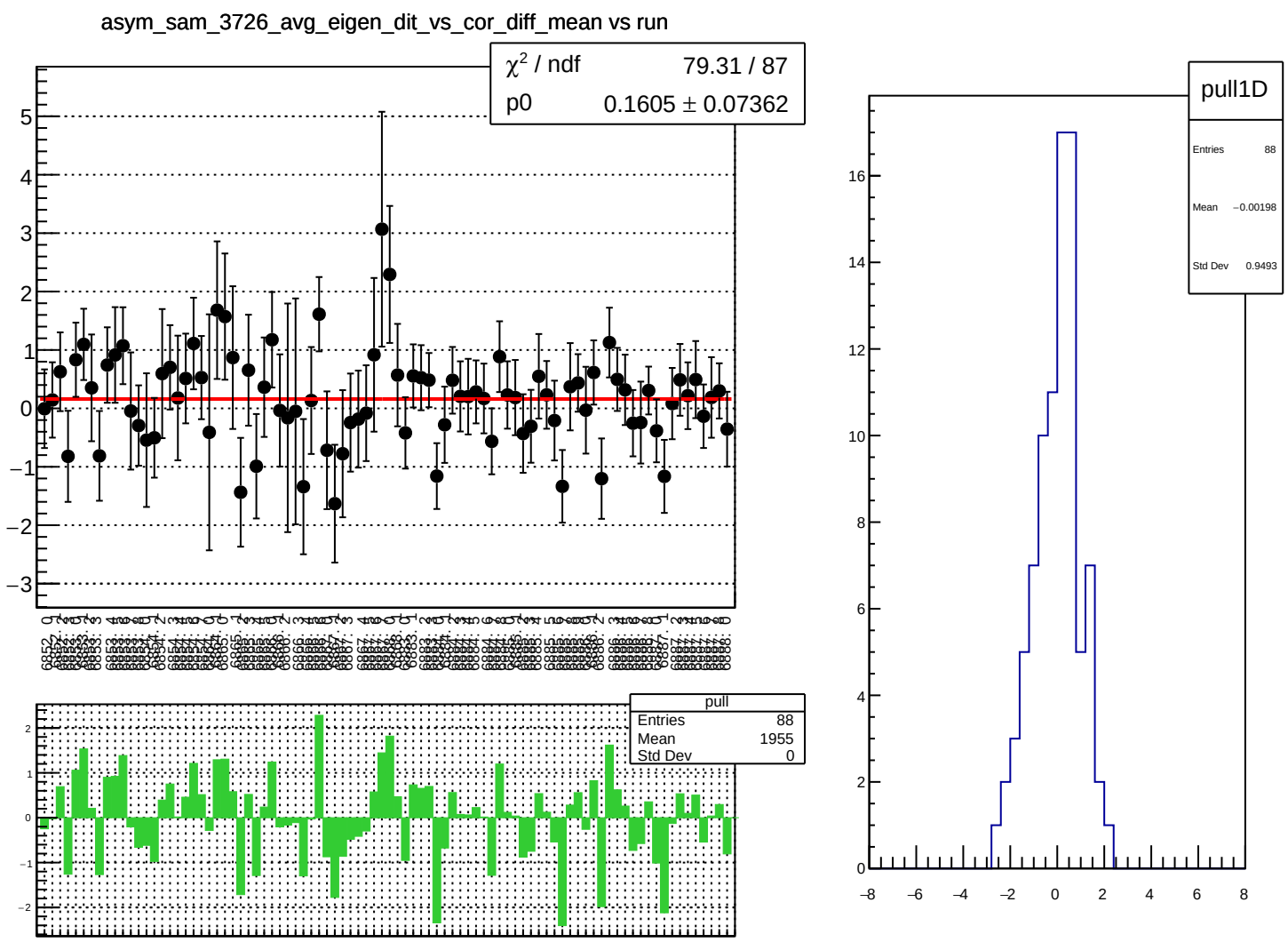

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.31 / 87
p0 0.1605 ± 0.07362
pull
Entries 88
Mean 1957
Std Dev 0
pull1D
Entries 88
Mean −0.001979
Std Dev 0.9493

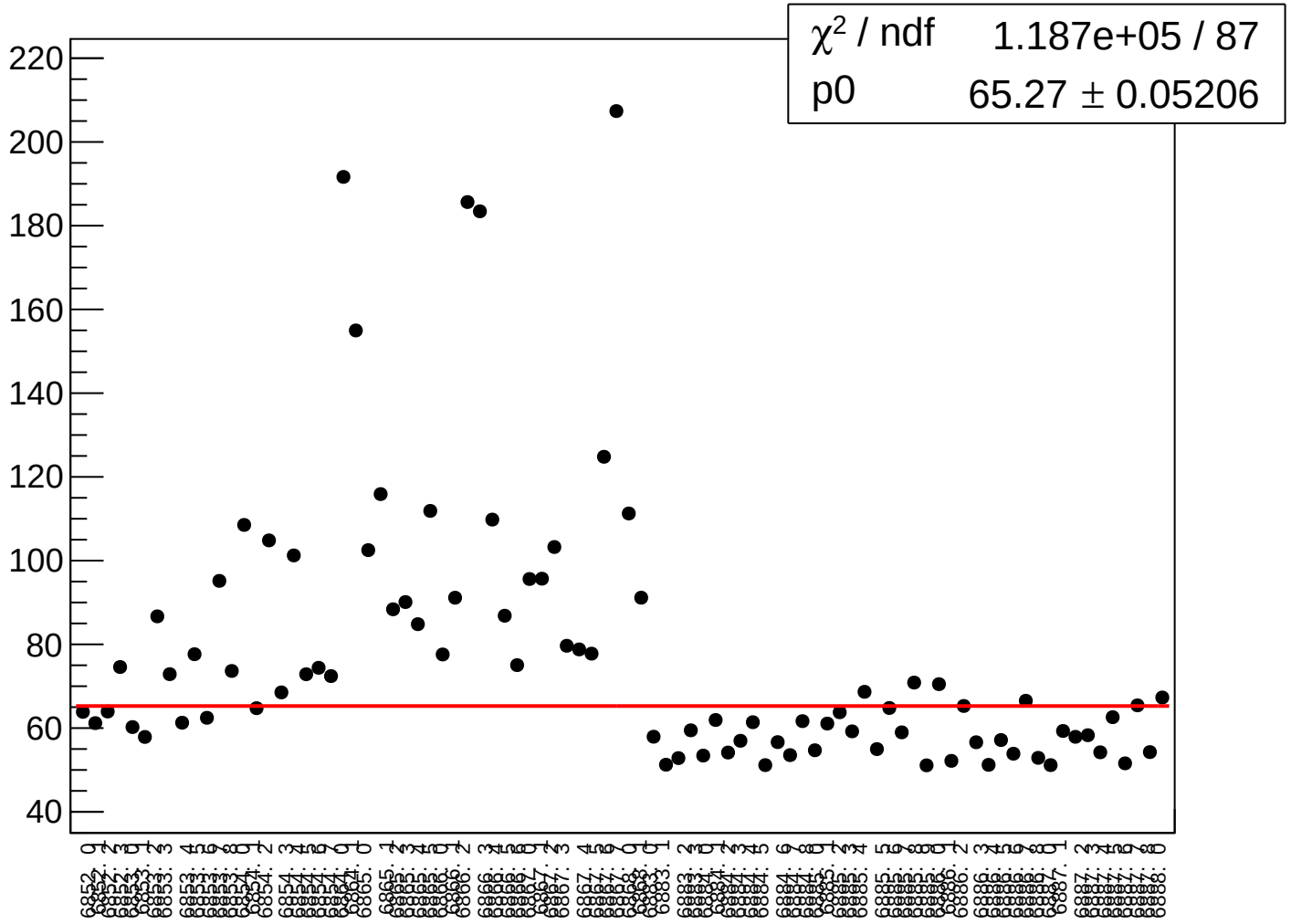

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.187e+05 / 87
p0 65.27 ± 0.05206
220
200
180
160
140
120
100
80
60
40

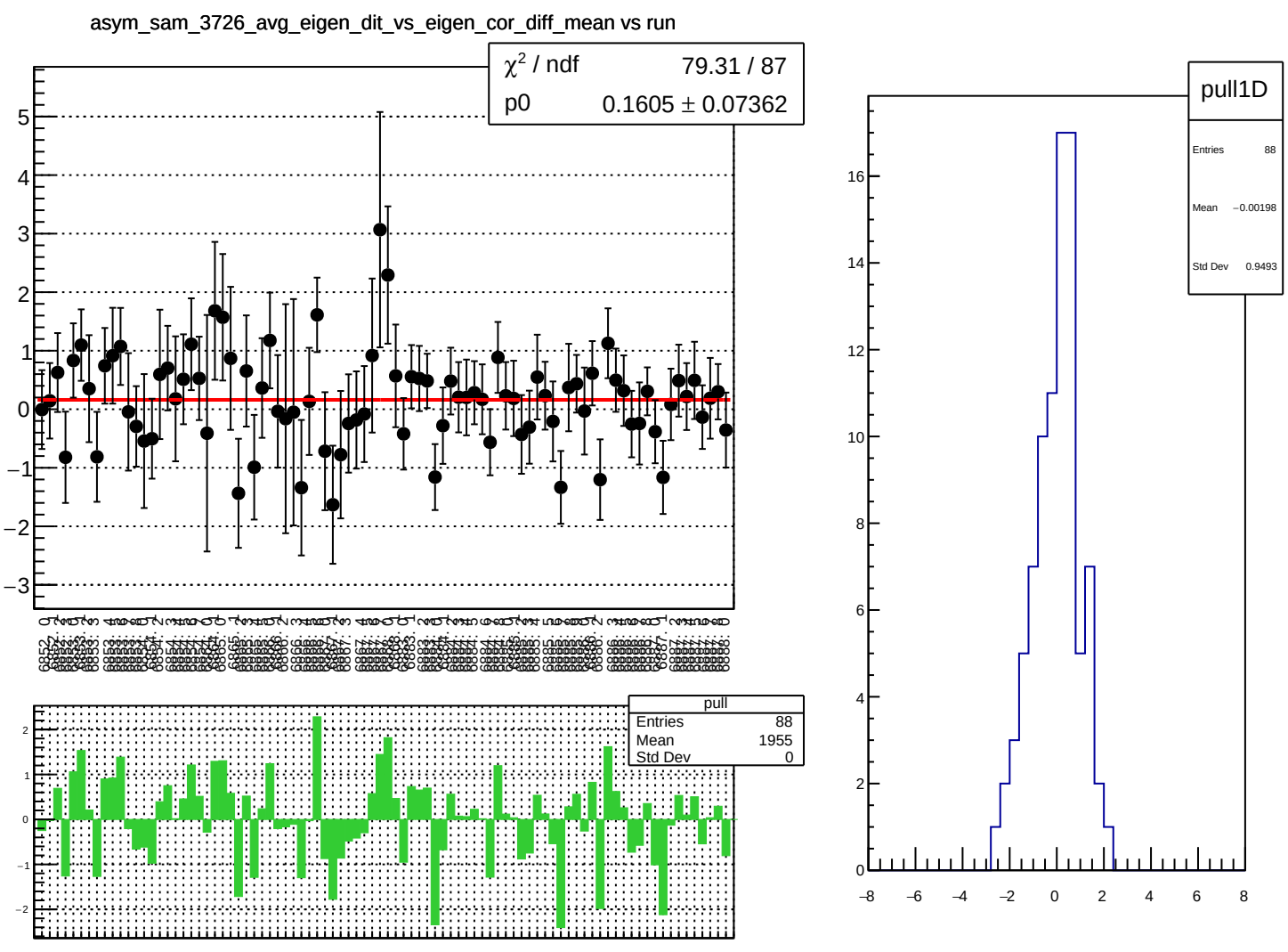

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.6 / 87
p0 4.722e−06 ± 2.617e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 60.73
Std Dev 0
3
2
1
0
−1
−2
−3

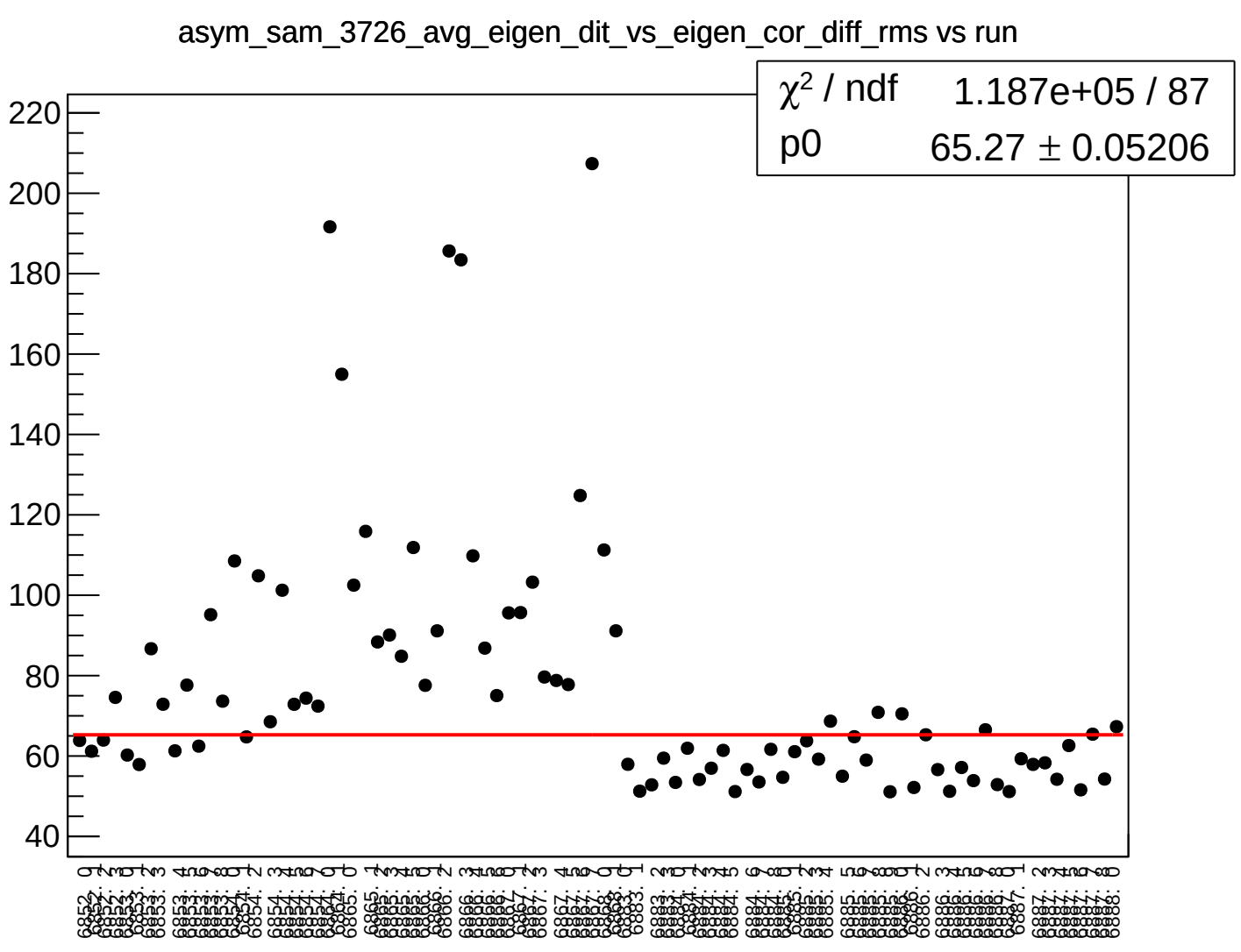

pull1D
Entries 88
Mean −0.03081
Std Dev 1.084
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

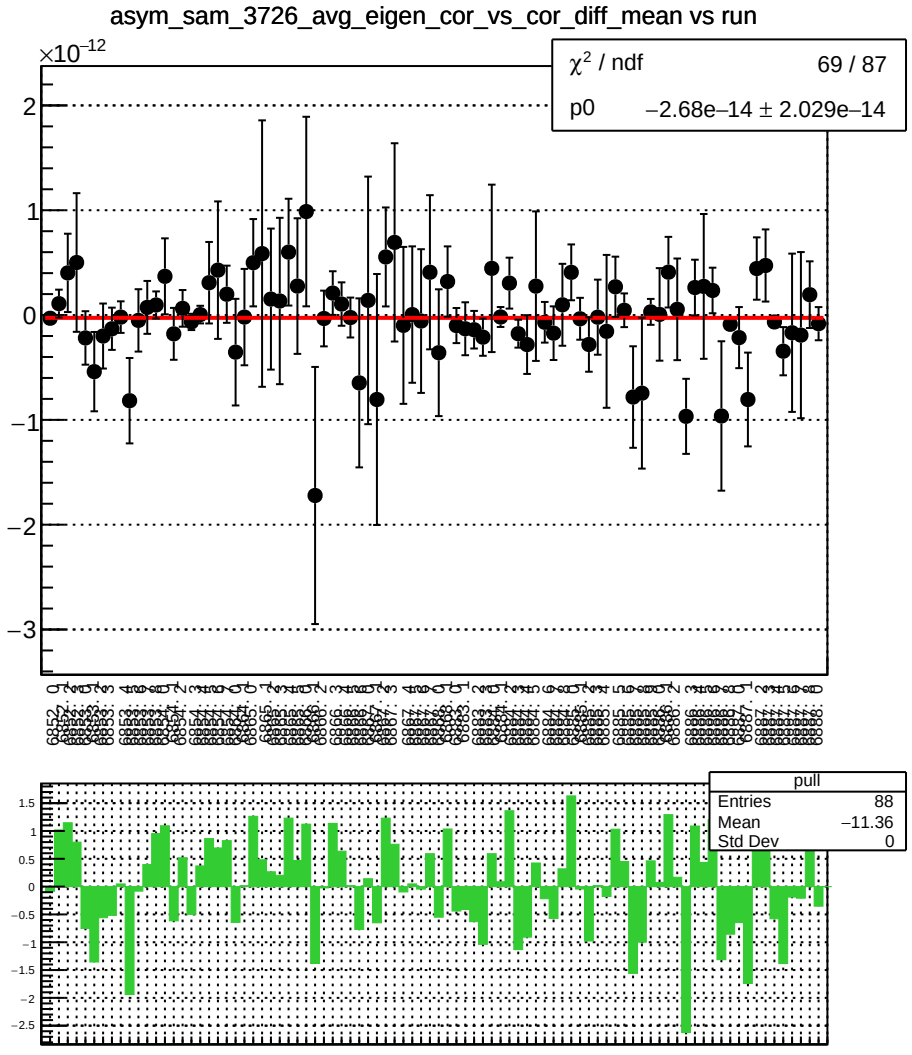

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.532e+04 / 87
p0 0.00236 ± 1.851e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

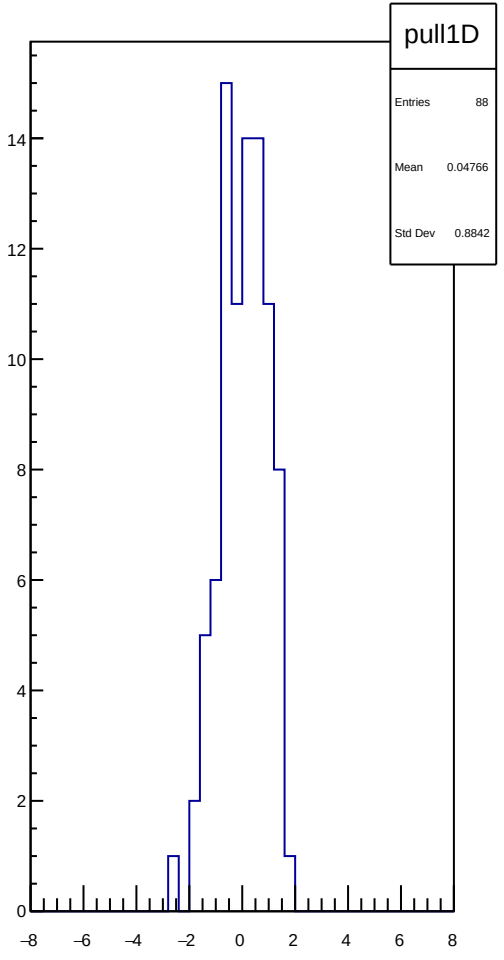

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.31 / 87
p0 0.1605 ± 0.07362
pull
Entries 88
Mean 1955
Std Dev 0
pull1D
Entries 88
Mean −0.00198
Std Dev 0.9493

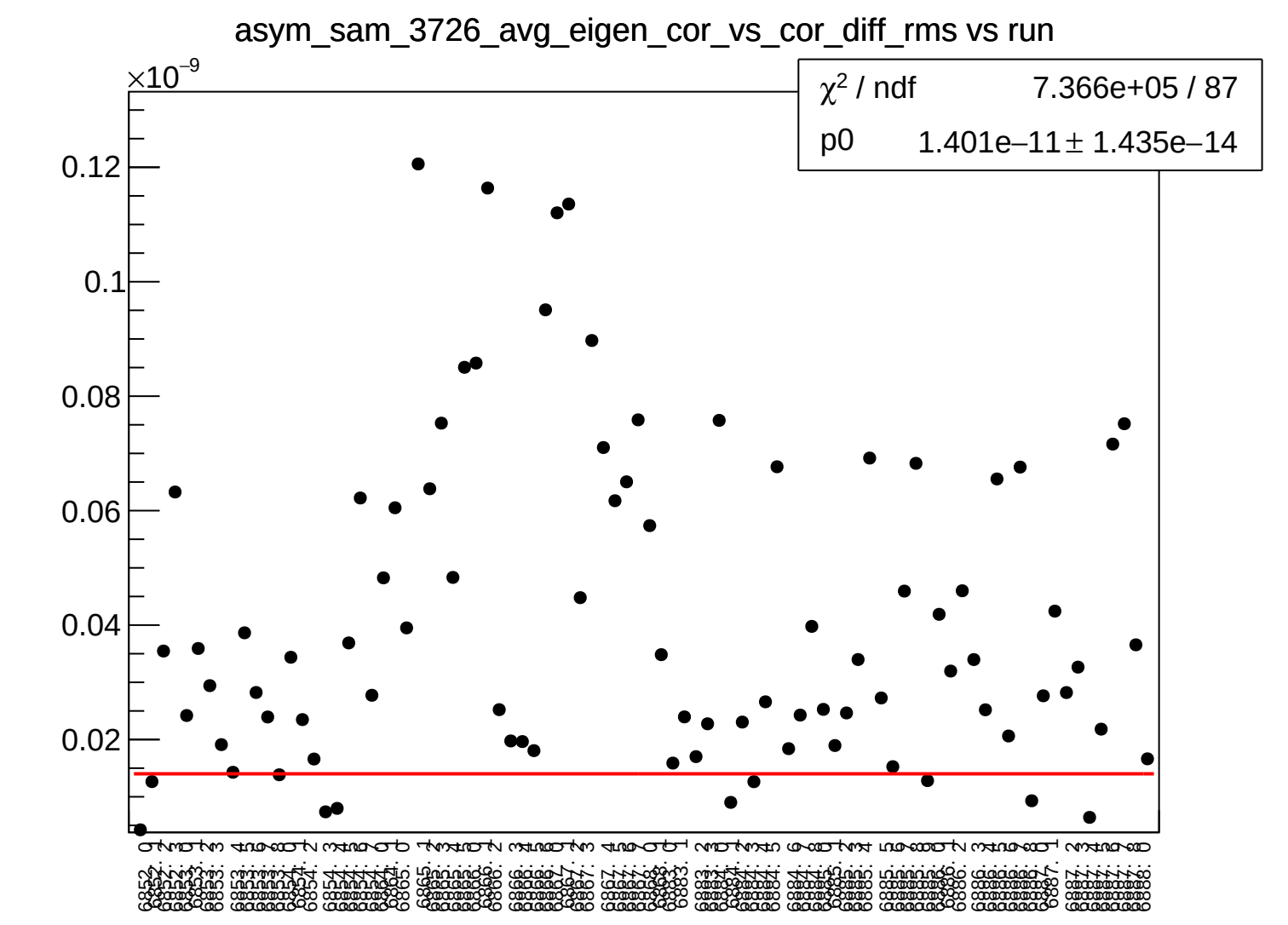

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.187e+05 / 87
p0 65.27 ± 0.05206
220
200
180
160
140
120
100
80
60
40

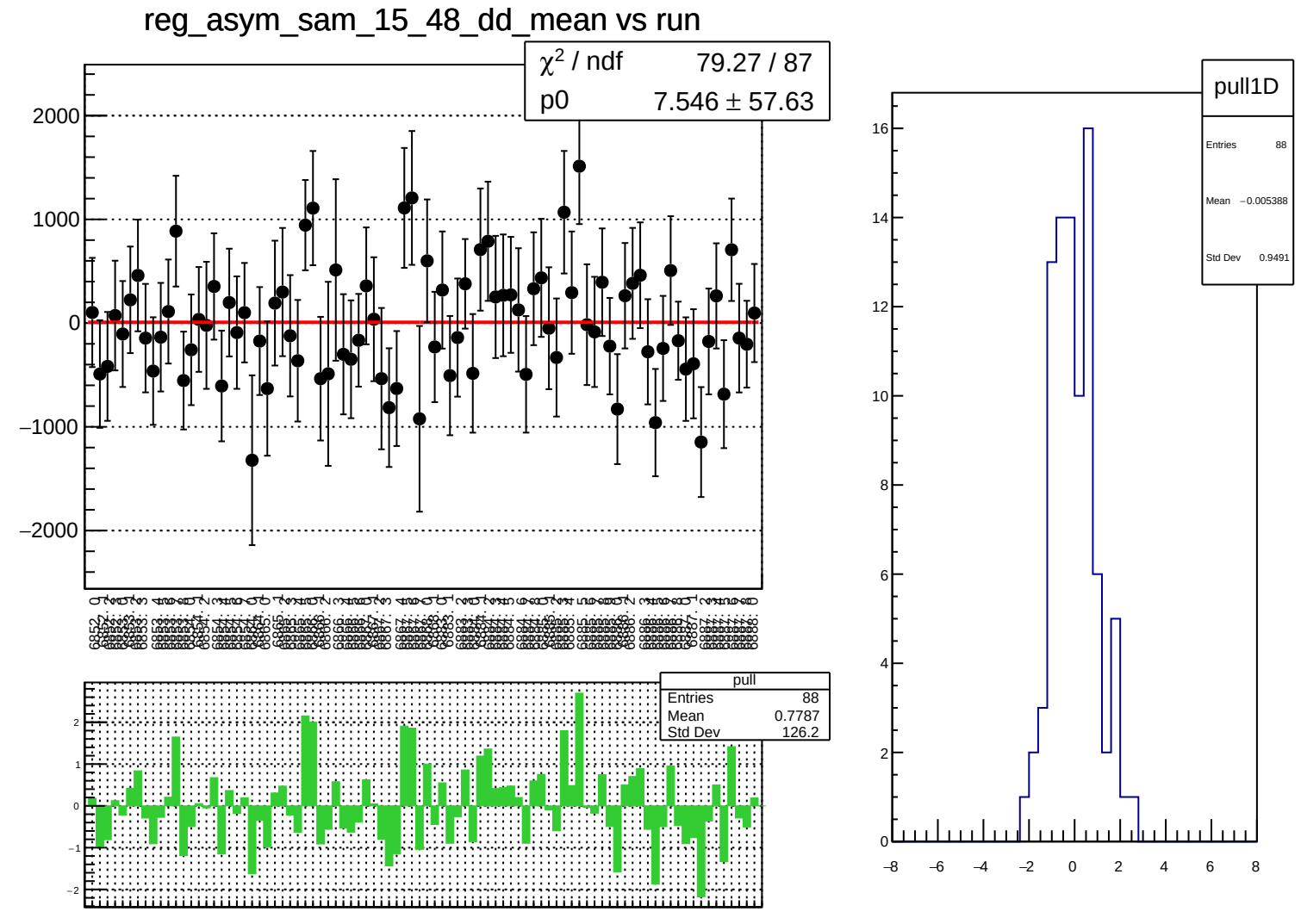

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.31 / 87
p0 0.1605 ± 0.07362
pull
Entries 88
Mean 1955
Std Dev 0
pull1D
Entries 88
Mean −0.00198
Std Dev 0.9493


asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.187e+05 / 87
p0 65.27 ± 0.05206
220
200
180
160
140
120
100
80
60
40

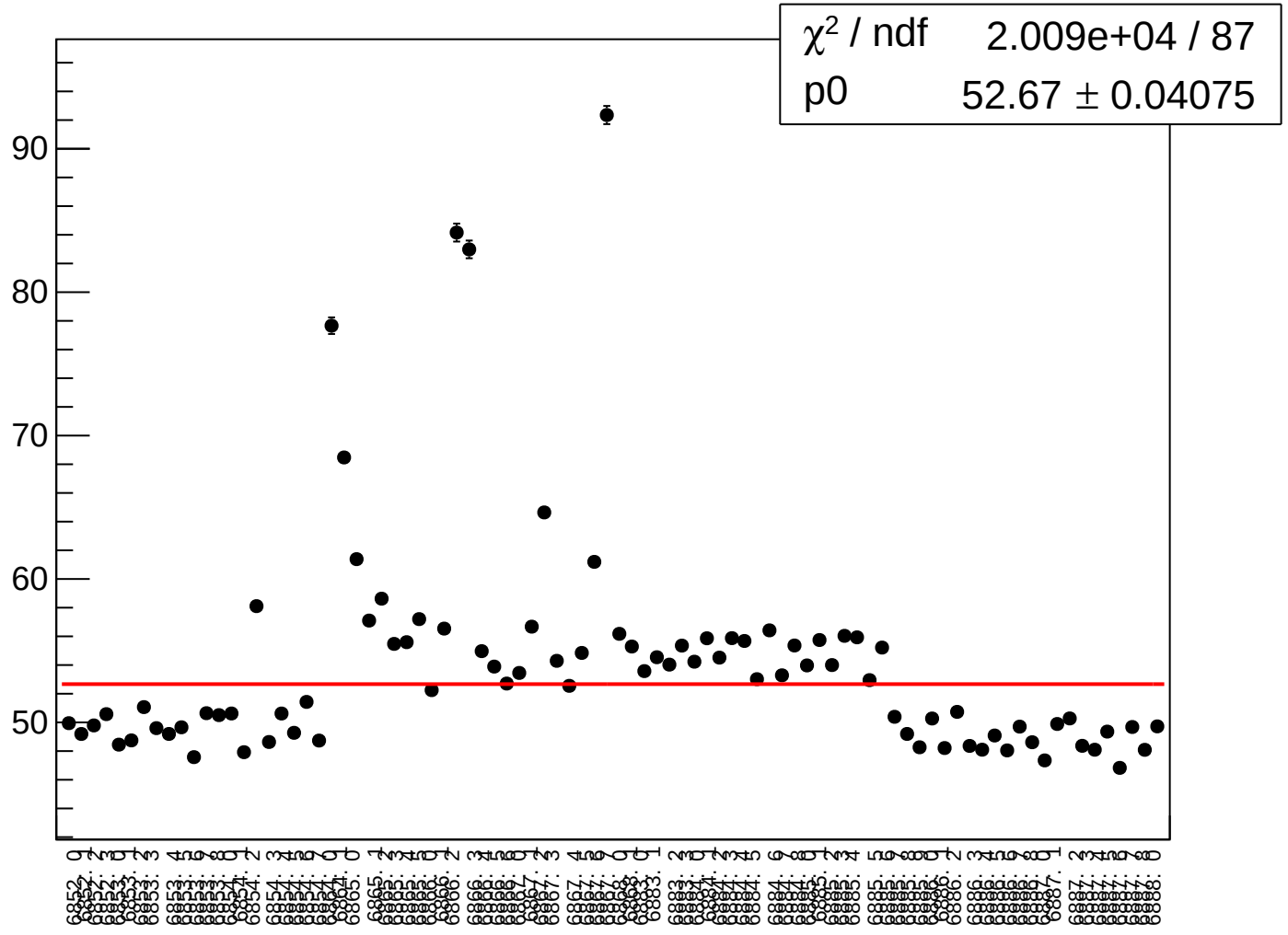

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69 / 87
p0 −2.68e−14 ± 2.029e−14
pull
Entries 88
Mean −11.36
Std Dev 0

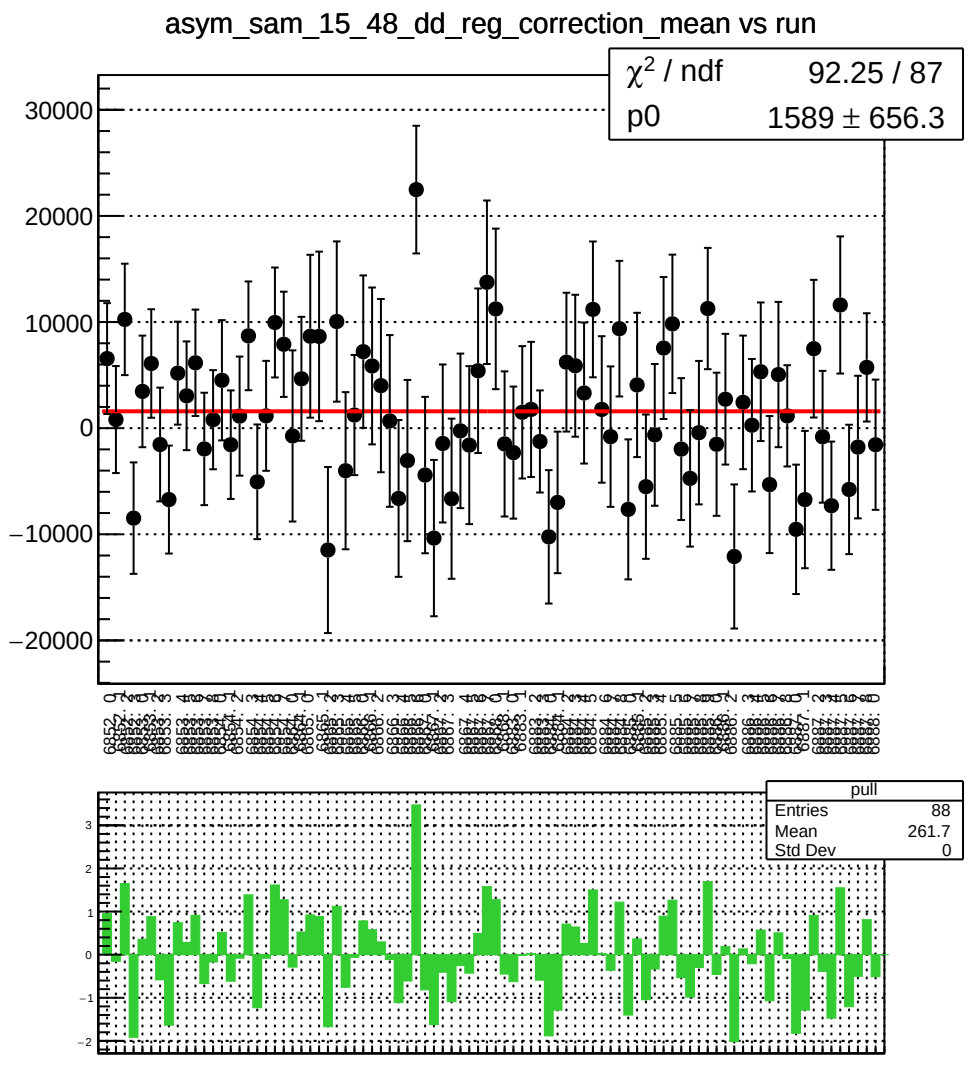

pull1D
Entries 88
Mean 0.04766
Std Dev 0.8842

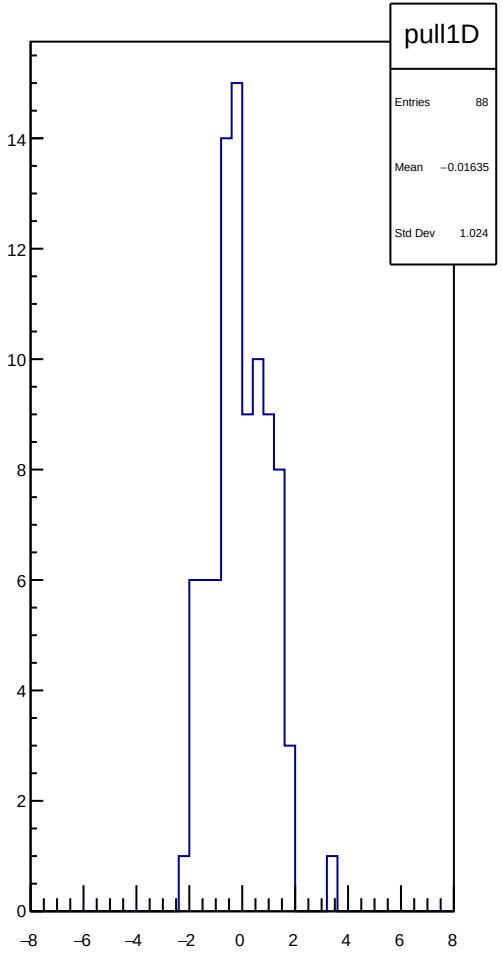

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.366e+05 / 87
p0 1.401e−11 ± 1.435e−14
0.12
0.1
0.08
0.06
0.04
0.02

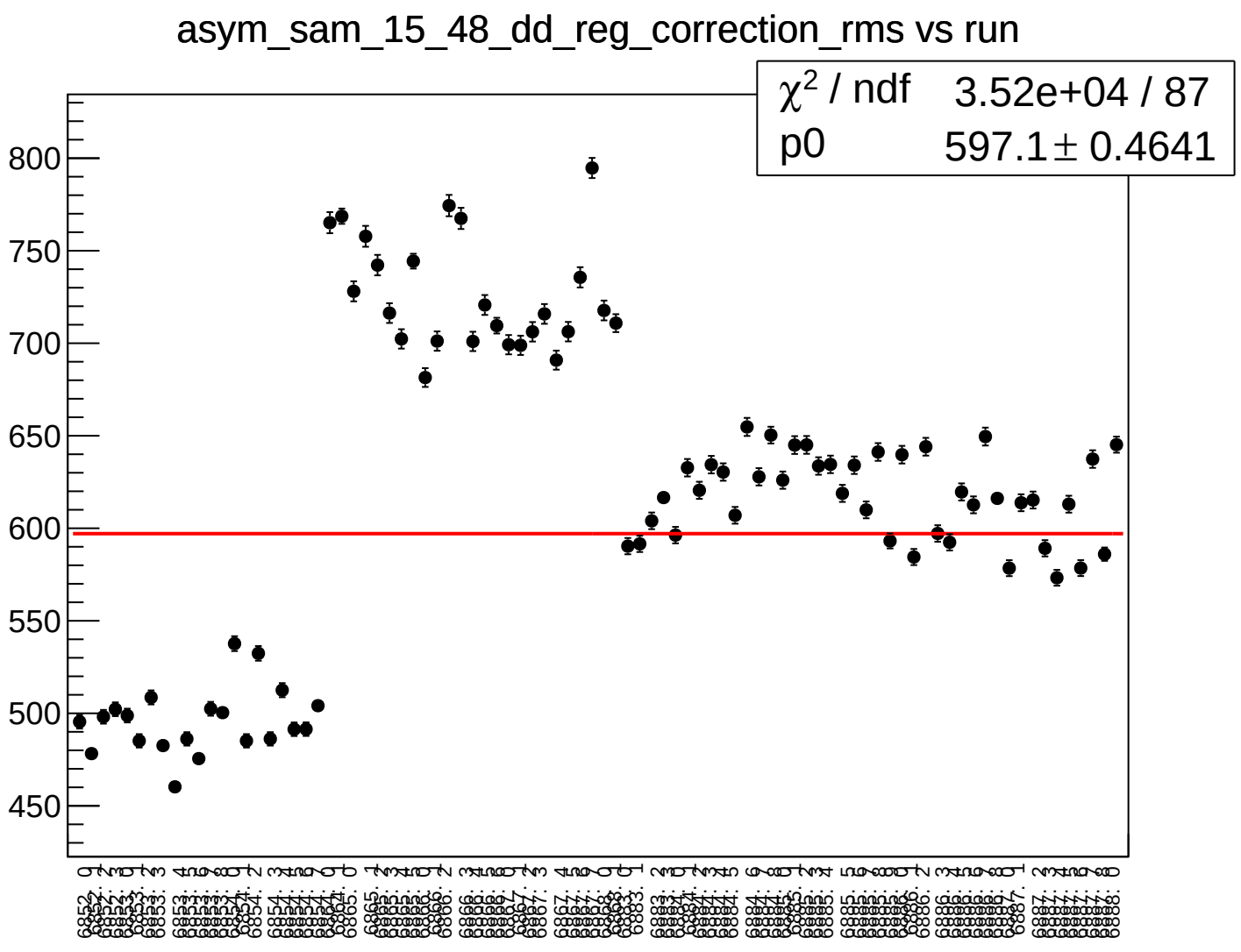

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 79.27 / 87
p0 7.546 ± 57.63
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 0.7787
Std Dev 126.2
pull1D
Entries 88
Mean −0.005388
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

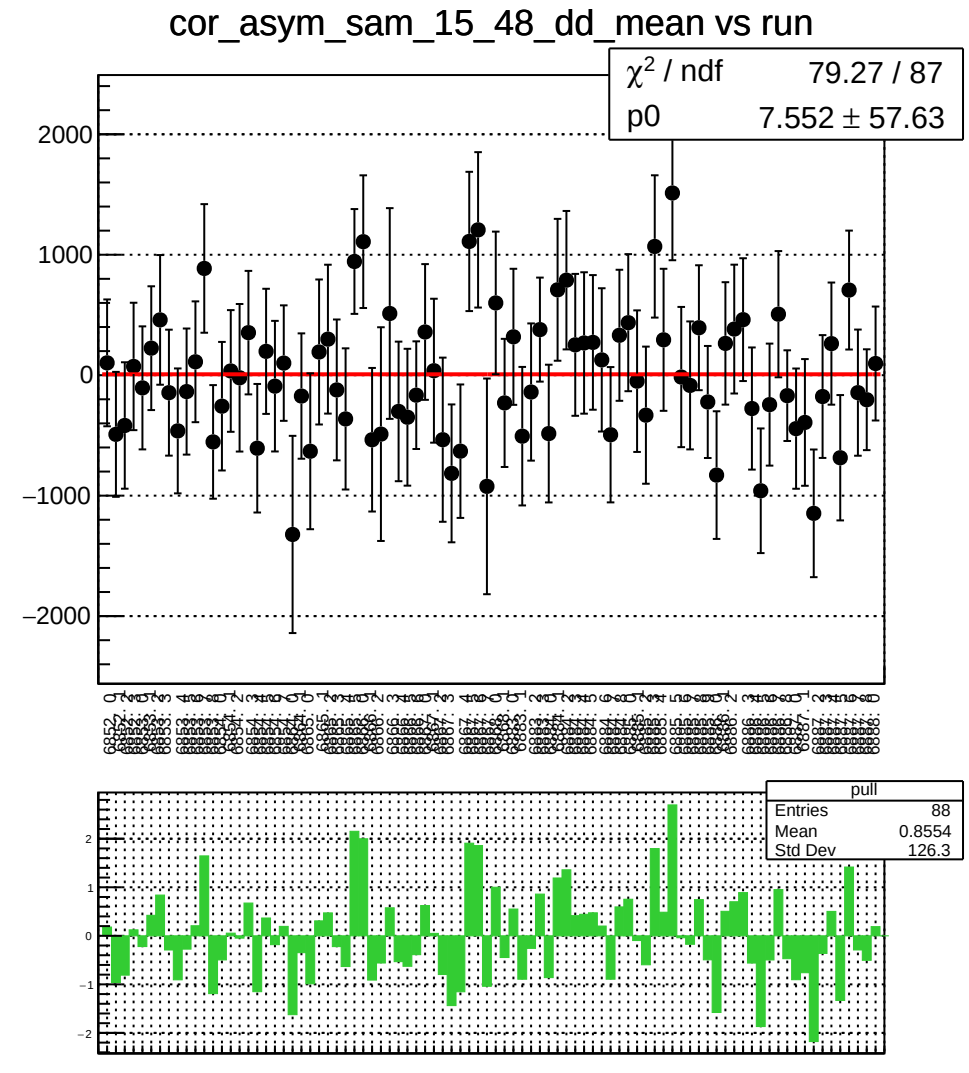
reg_asym_sam_15_48_dd_rms vs run

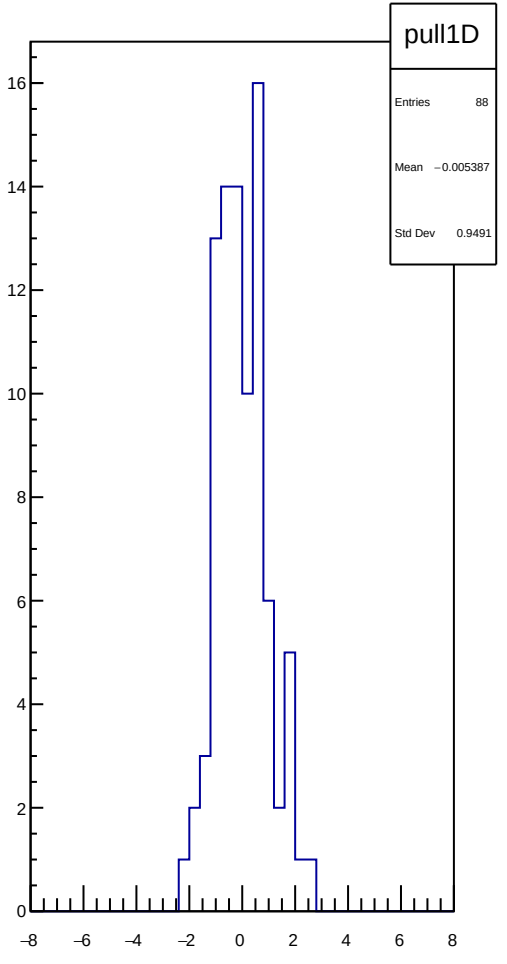


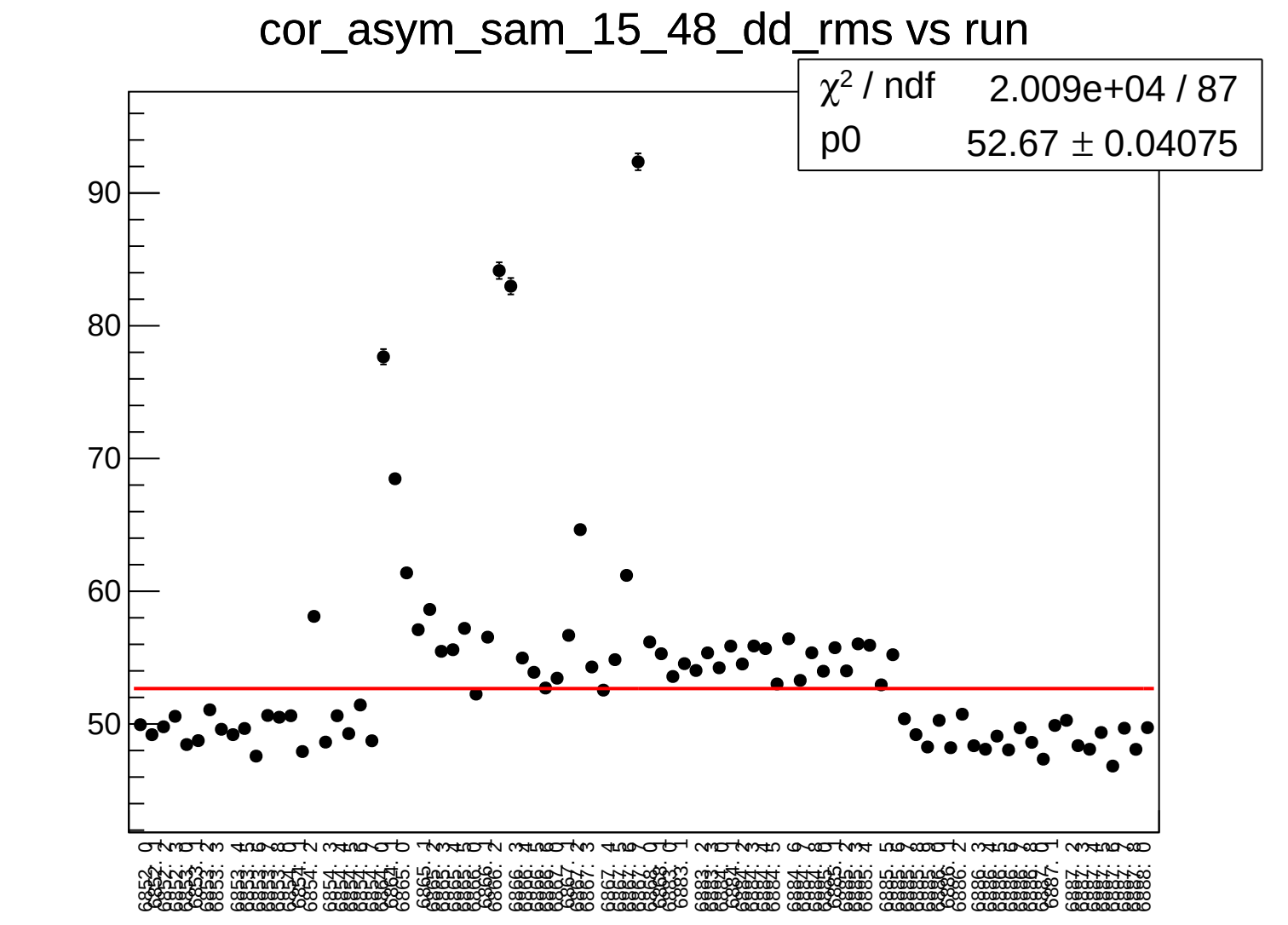

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 92.25 / 87
p0 1589 ± 656.3
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 261.7
Std Dev 0
3
2
1
0
−1
−2

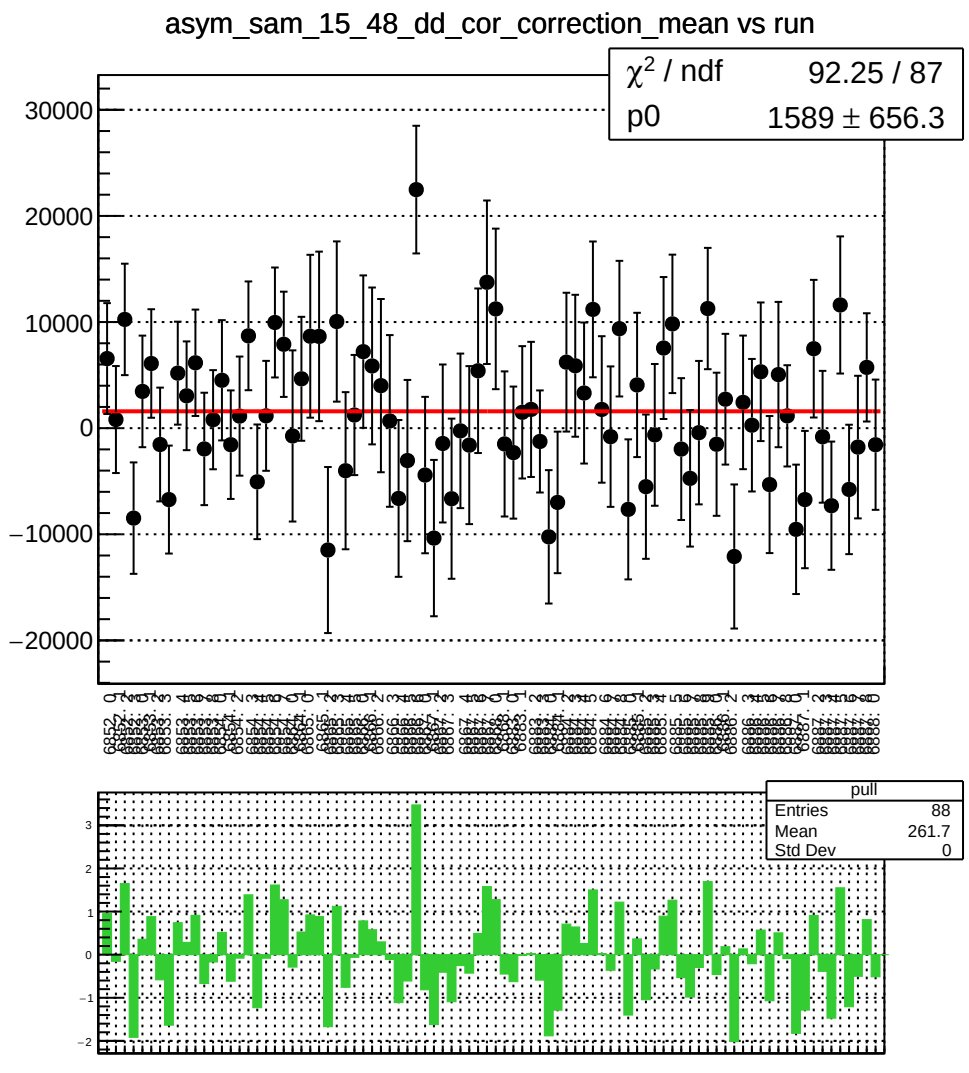

pull1D
Entries 88
Mean −0.01635
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

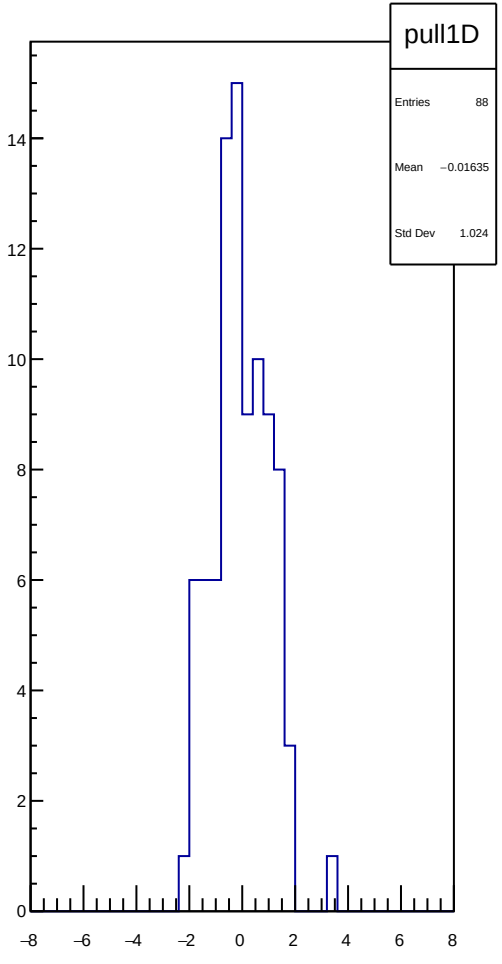

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 3.52e+04 / 87
p0 597.1 ± 0.4641
800
750
700
650
600
550
500
450

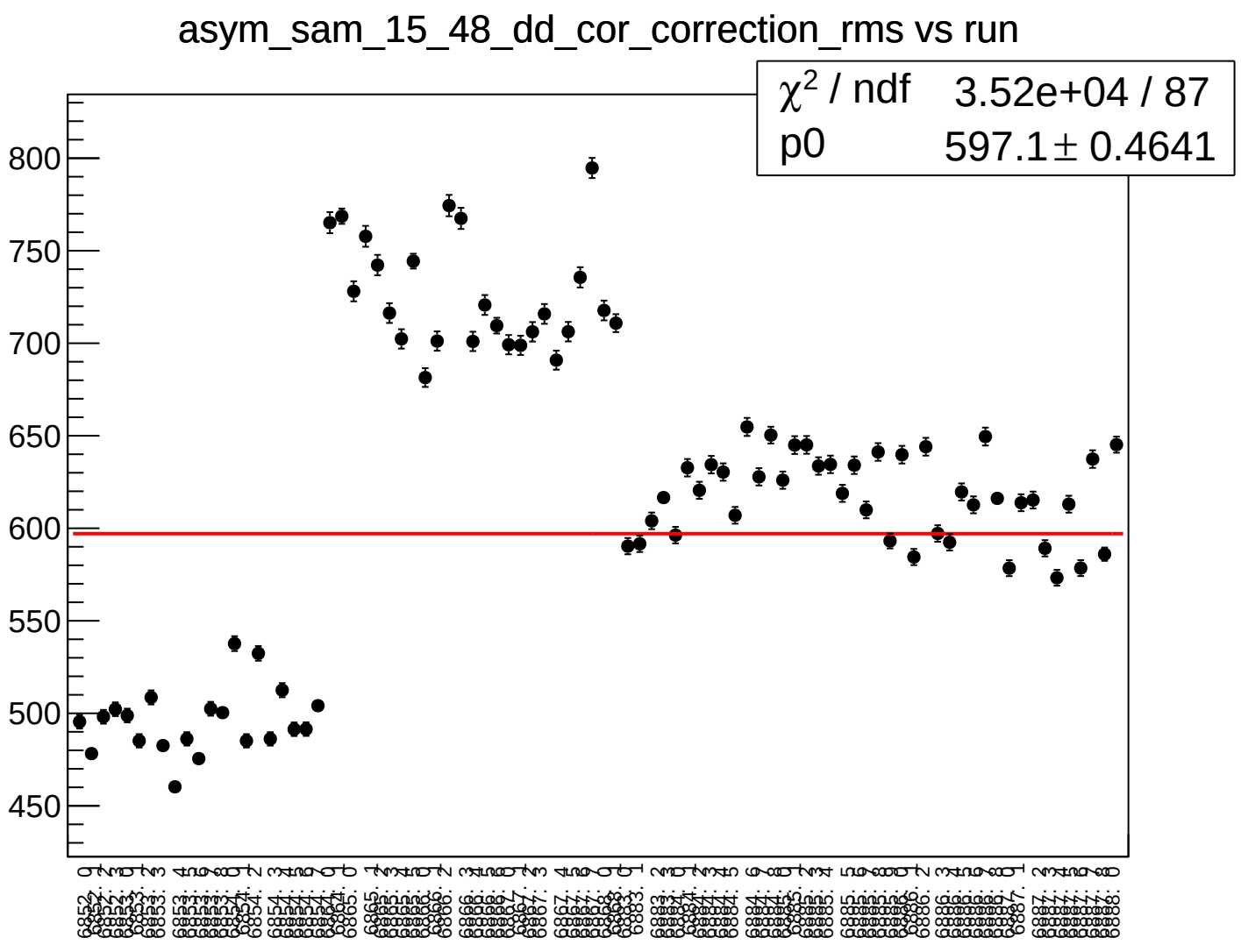

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 79.27 / 87
p0 7.552 ± 57.63
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 0.8554
Std Dev 126.3
2
1
0
−1
−2

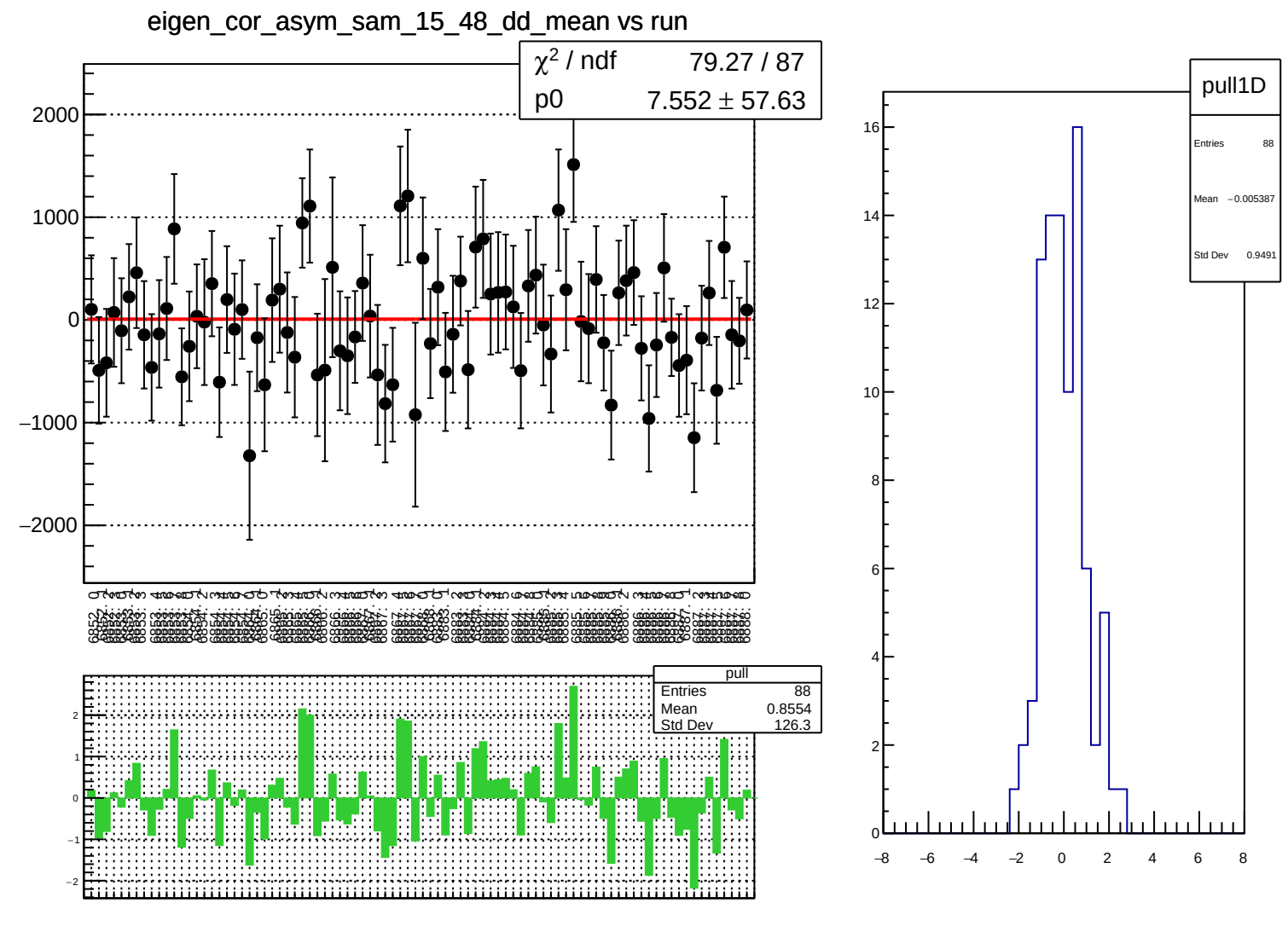

pull1D
Entries 88
Mean −0.005387
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

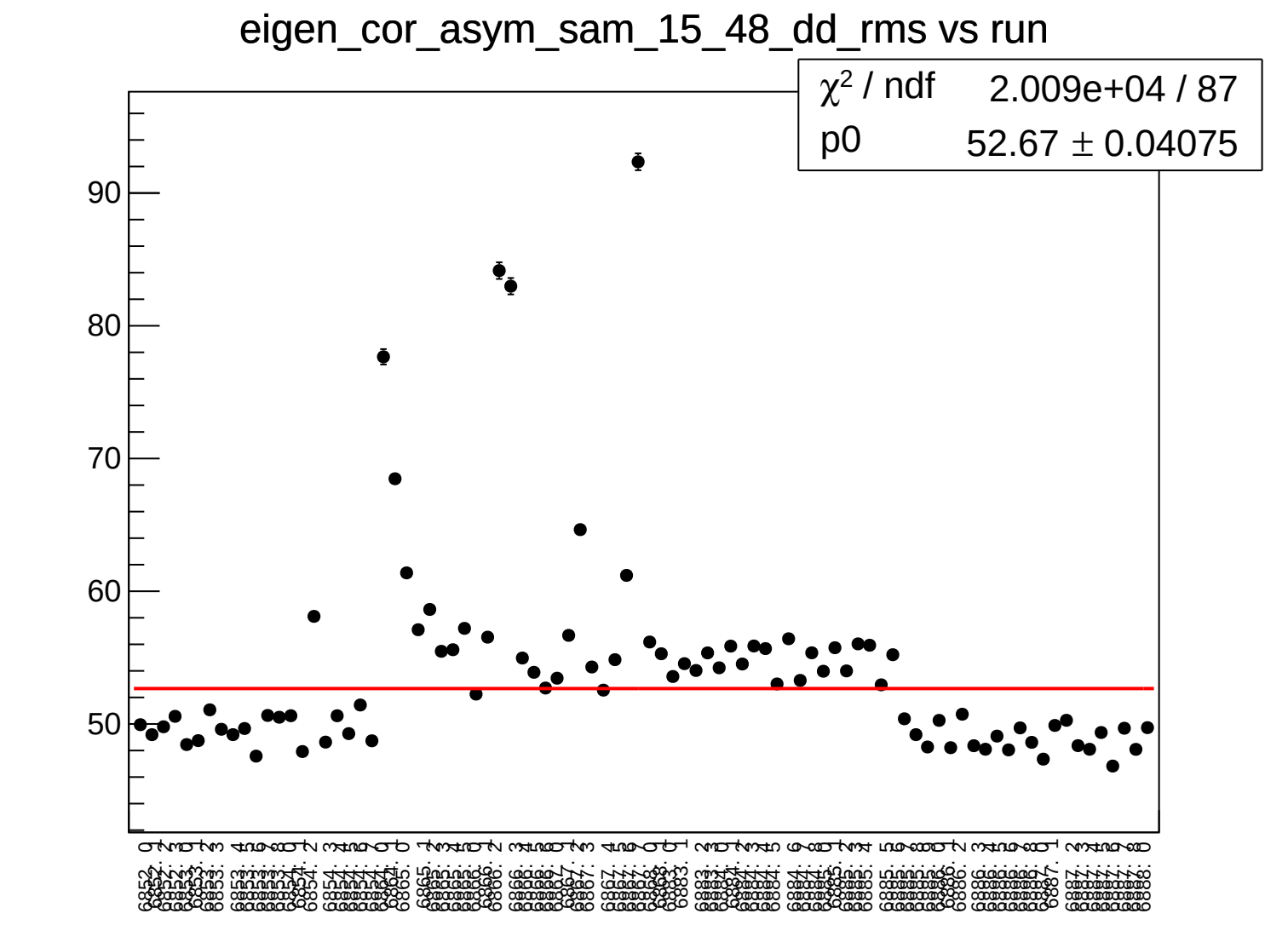

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.009e+04 / 87
p0 52.67 ± 0.04075
90
80
70
60
50

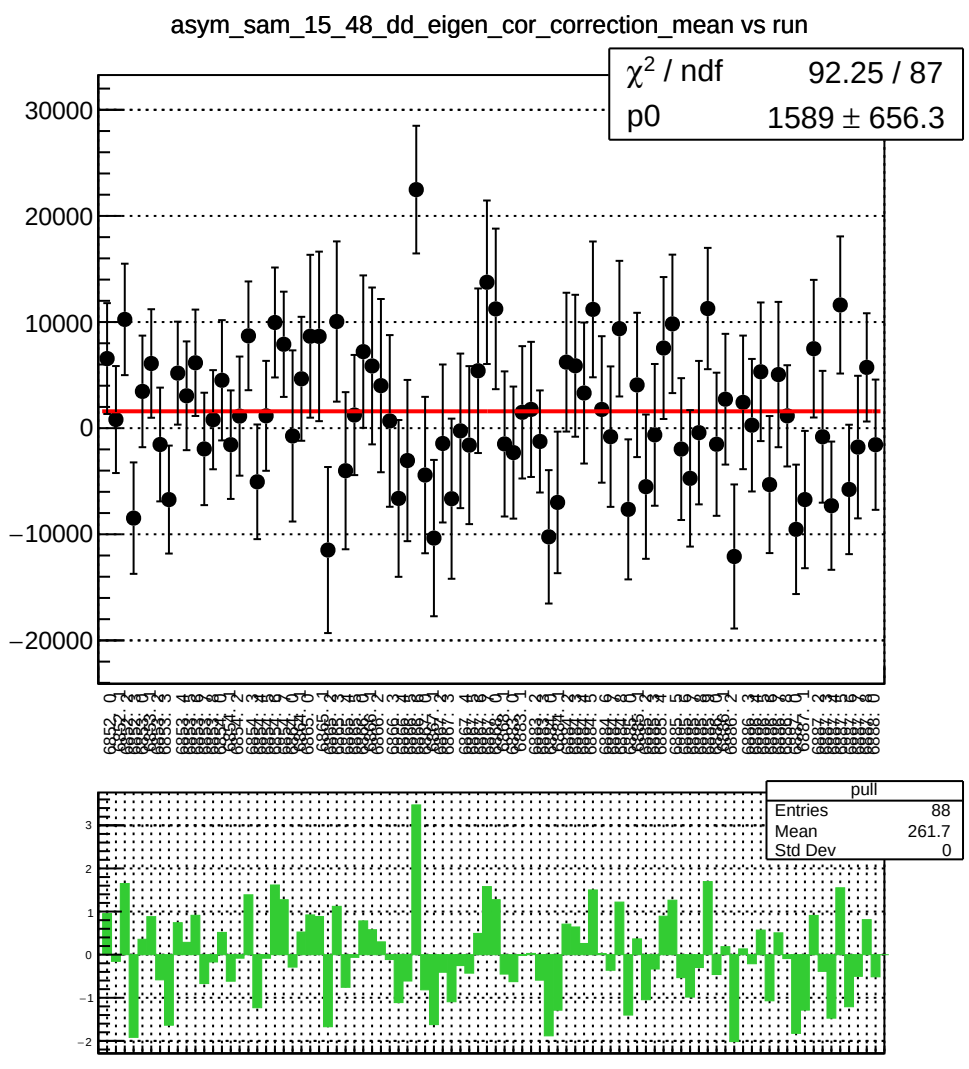

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 92.25 / 87
p0 1589 ± 656.3
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 261.7
Std Dev 0
3
2
1
0
−1
−2

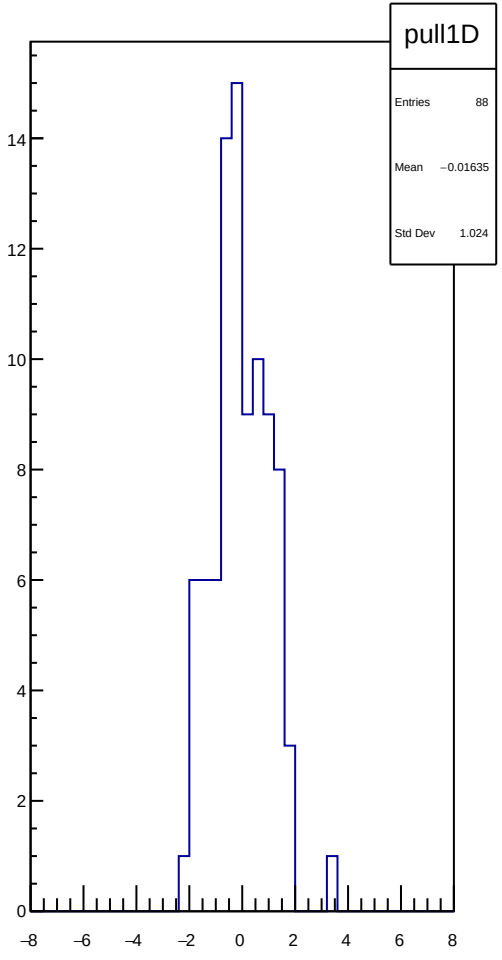

pull1D
Entries 88
Mean −0.01635
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

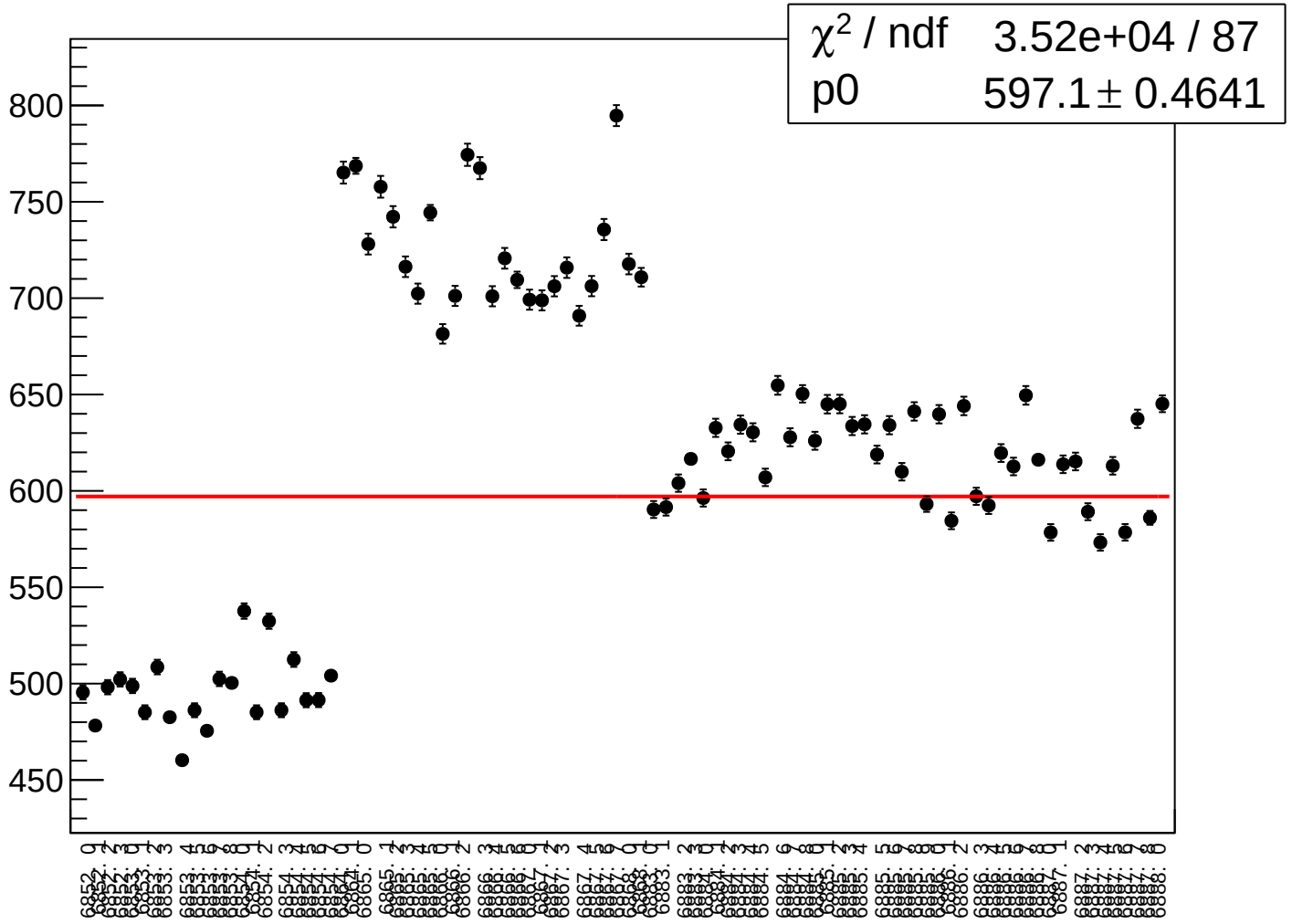

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 3.52e+04 / 87
p0 597.1 ± 0.4641
800
750
700
650
600
550
500
450

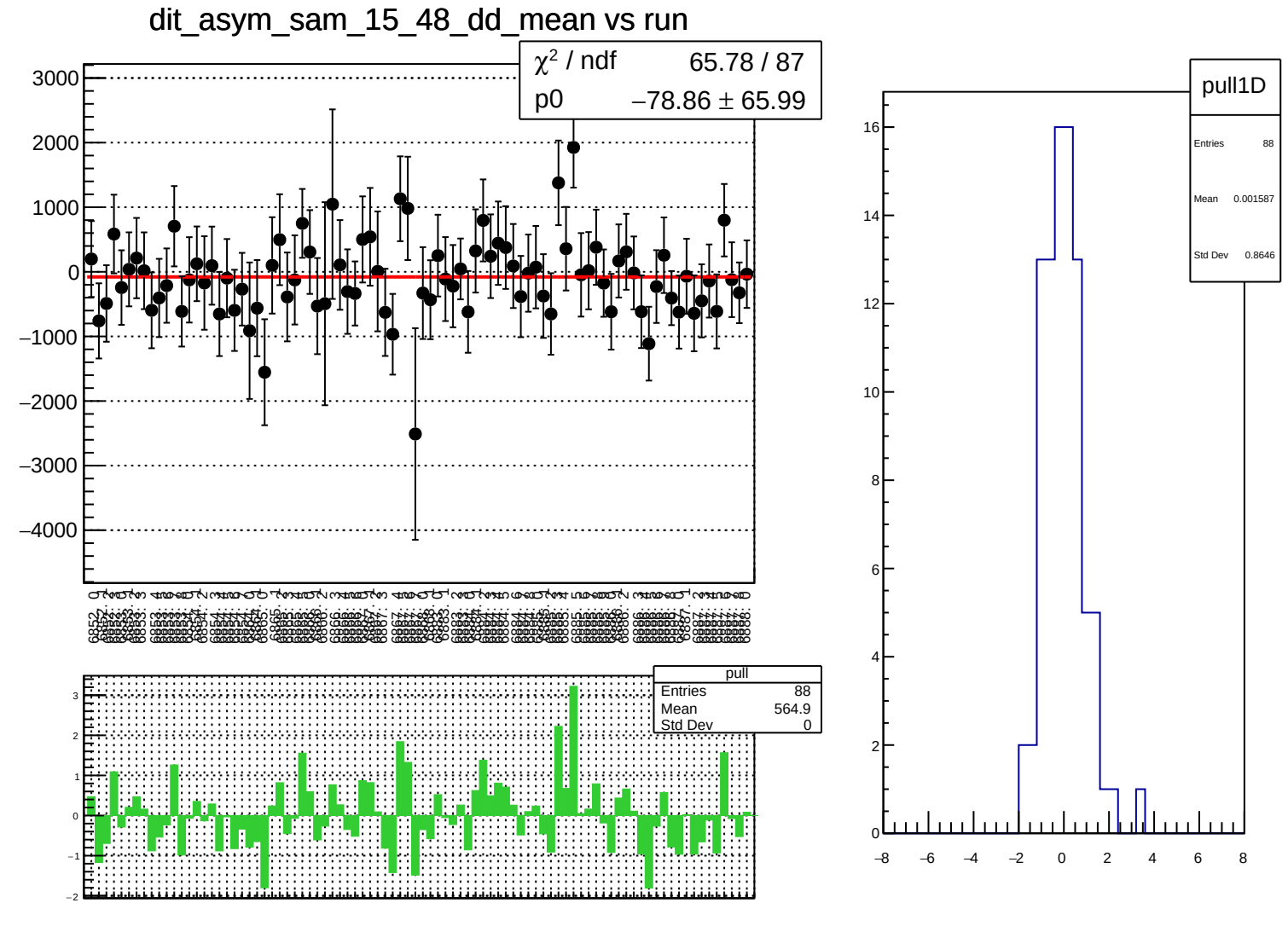

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 79.27 / 87
p0 7.552 ± 57.63
2000
1000
0
−1000
−2000
pull
Entries 88
Mean 0.8554
Std Dev 126.3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.005387
Std Dev 0.9491
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

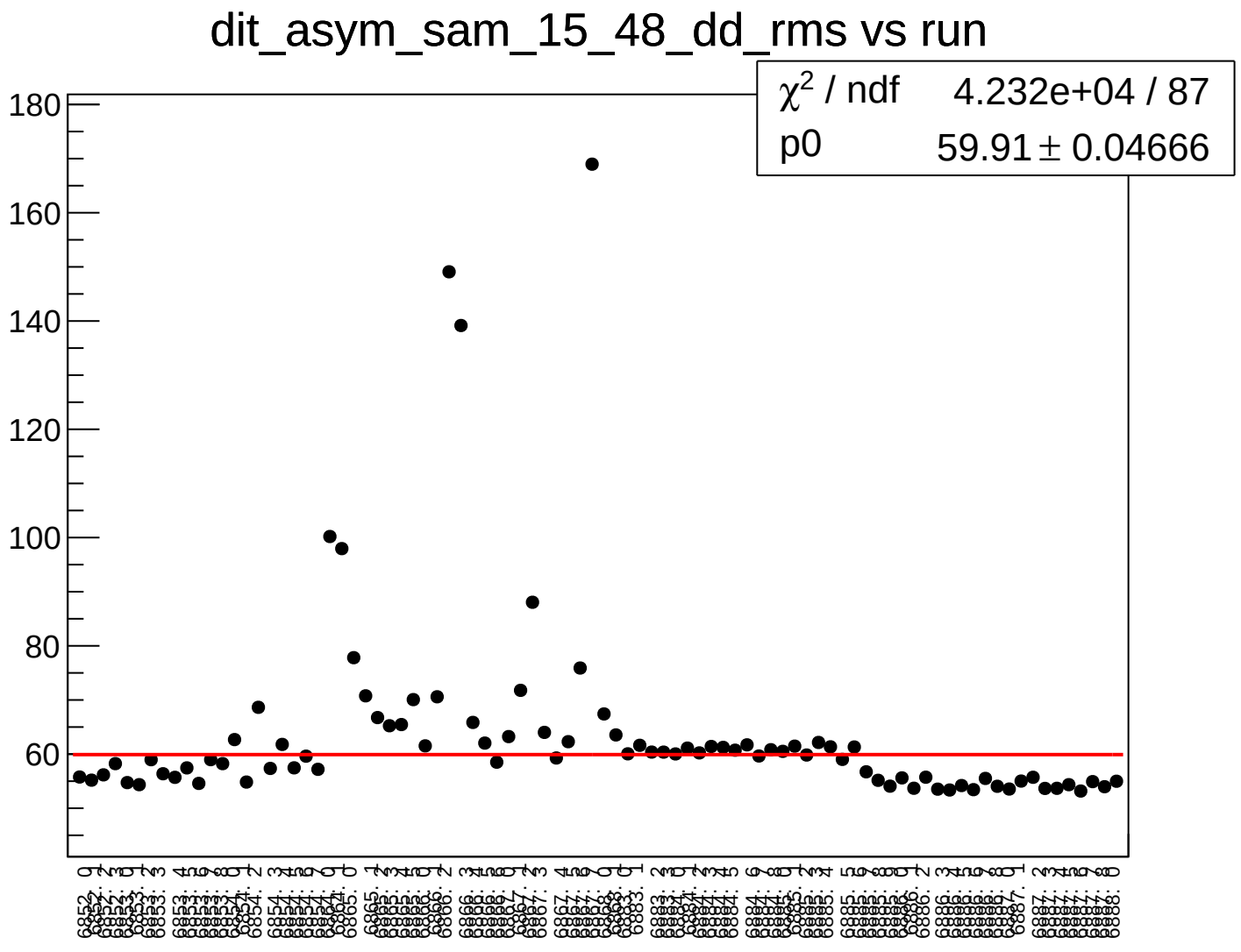

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 2.009e+04 / 87
p0 52.67 ± 0.04075
90
80
70
60
50

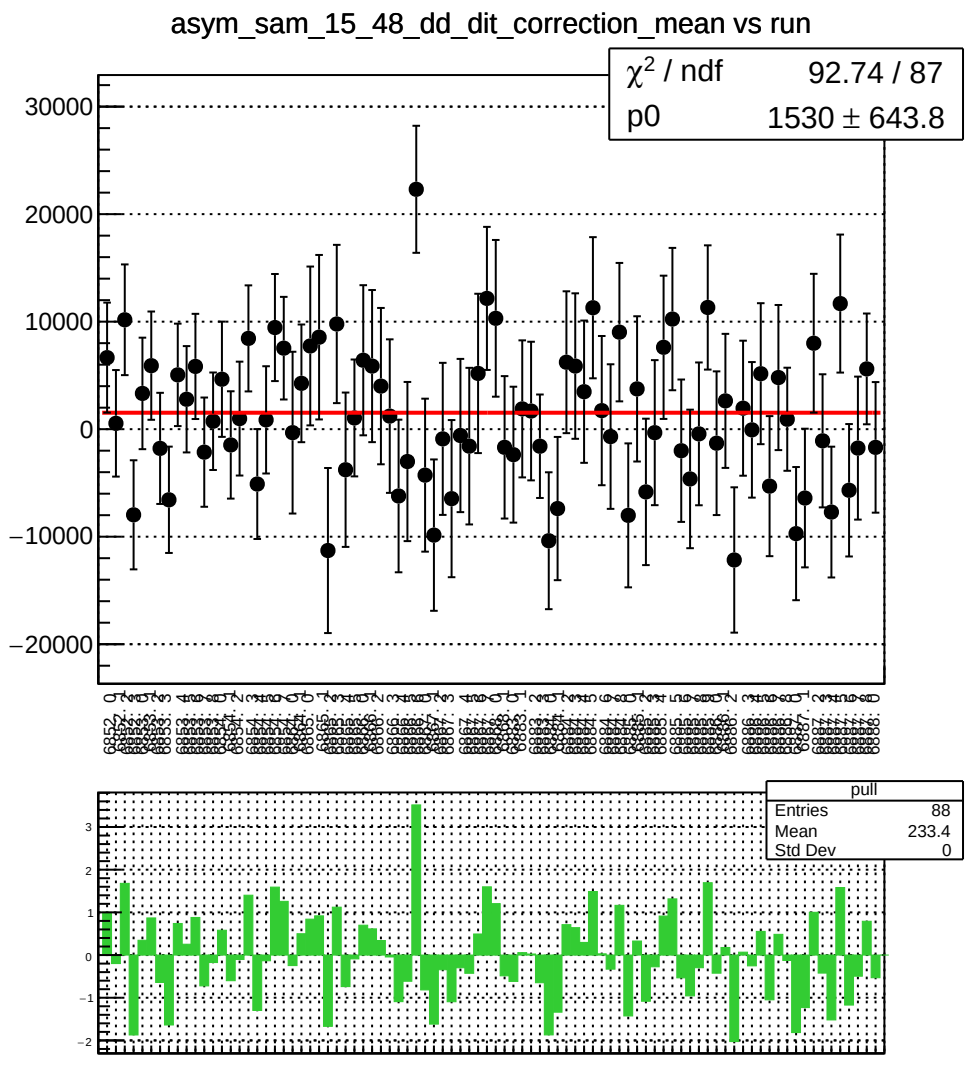

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.25 / 87
p0 1589 ± 656.3
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 261.7
Std Dev 0
3
2
1
0
−1
−2

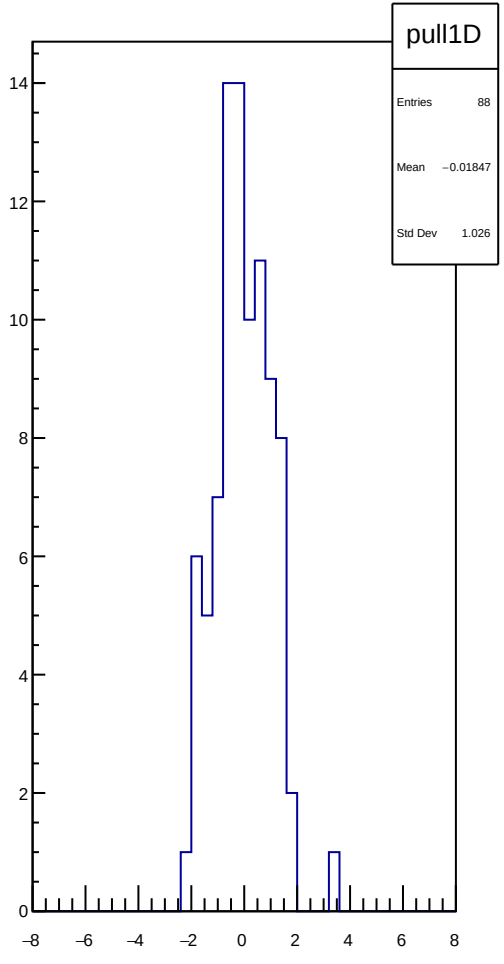

pull1D
Entries 88
Mean −0.01635
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

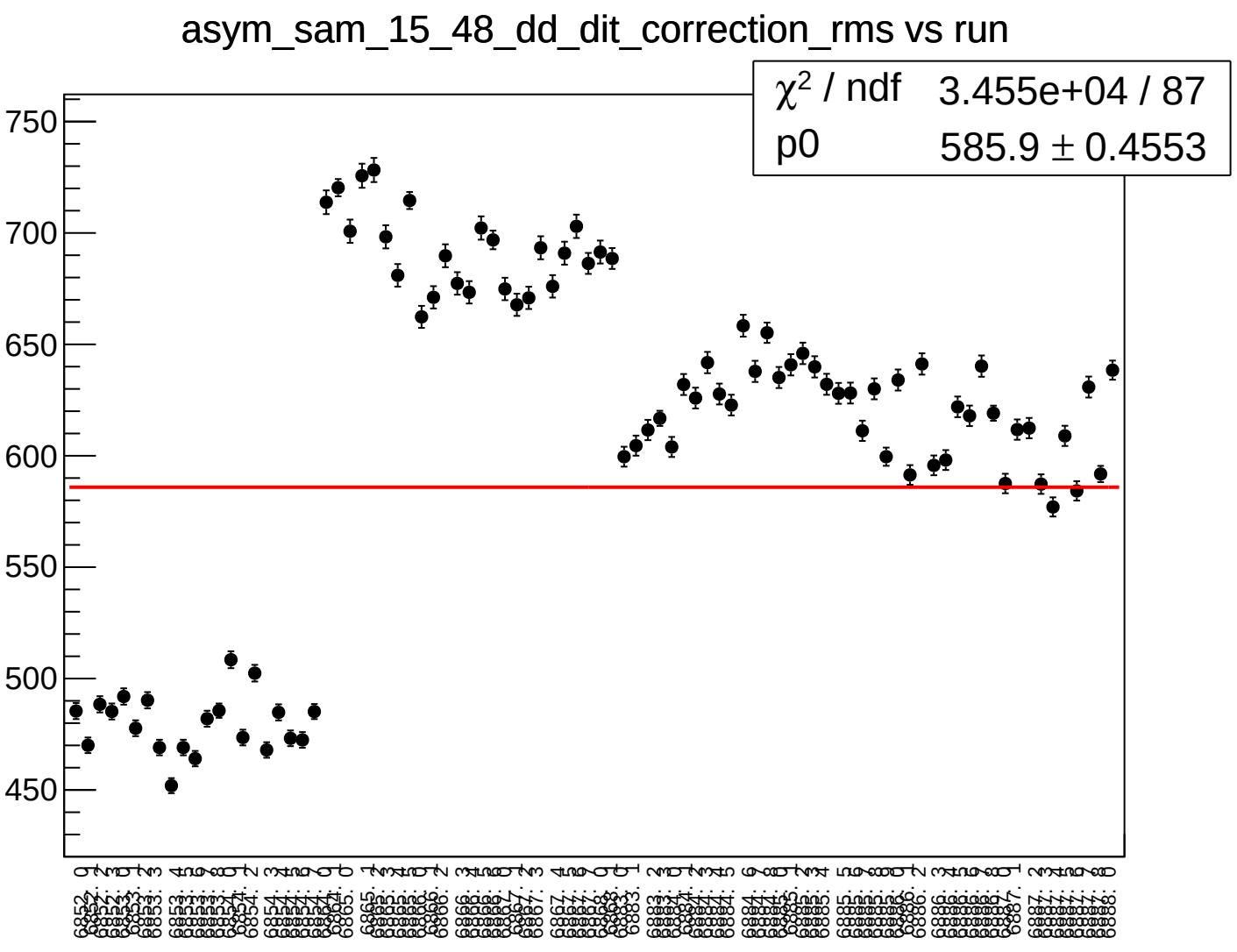

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.52e+04 / 87
p0 597.1 ± 0.4641
800
750
700
650
600
550
500
450

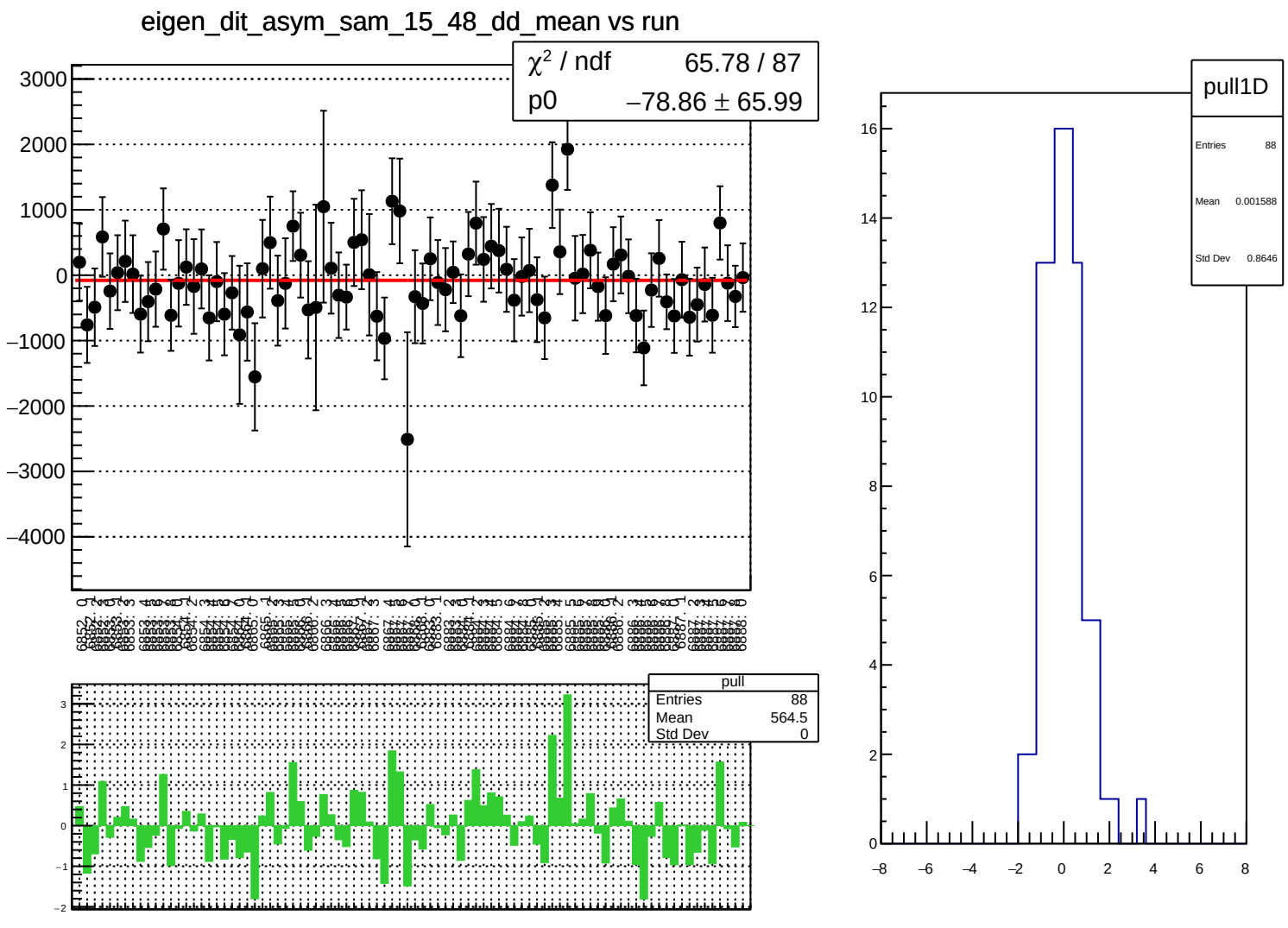

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 65.78 / 87
p0 −78.86 ± 65.99
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean 564.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.001587
Std Dev 0.8646
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

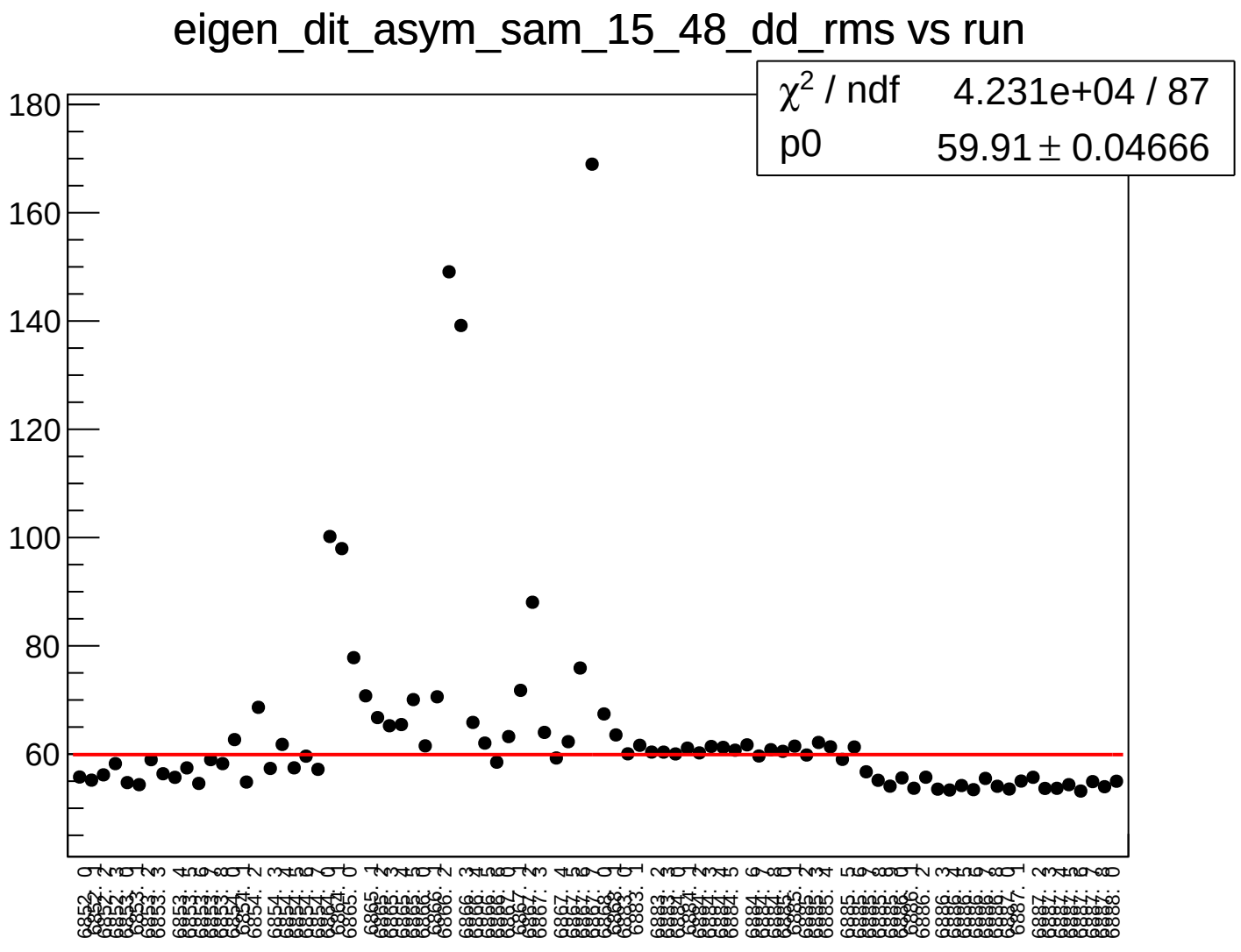

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 4.232e+04 / 87
p0 59.91 ± 0.04666
180
160
140
120
100
80
60

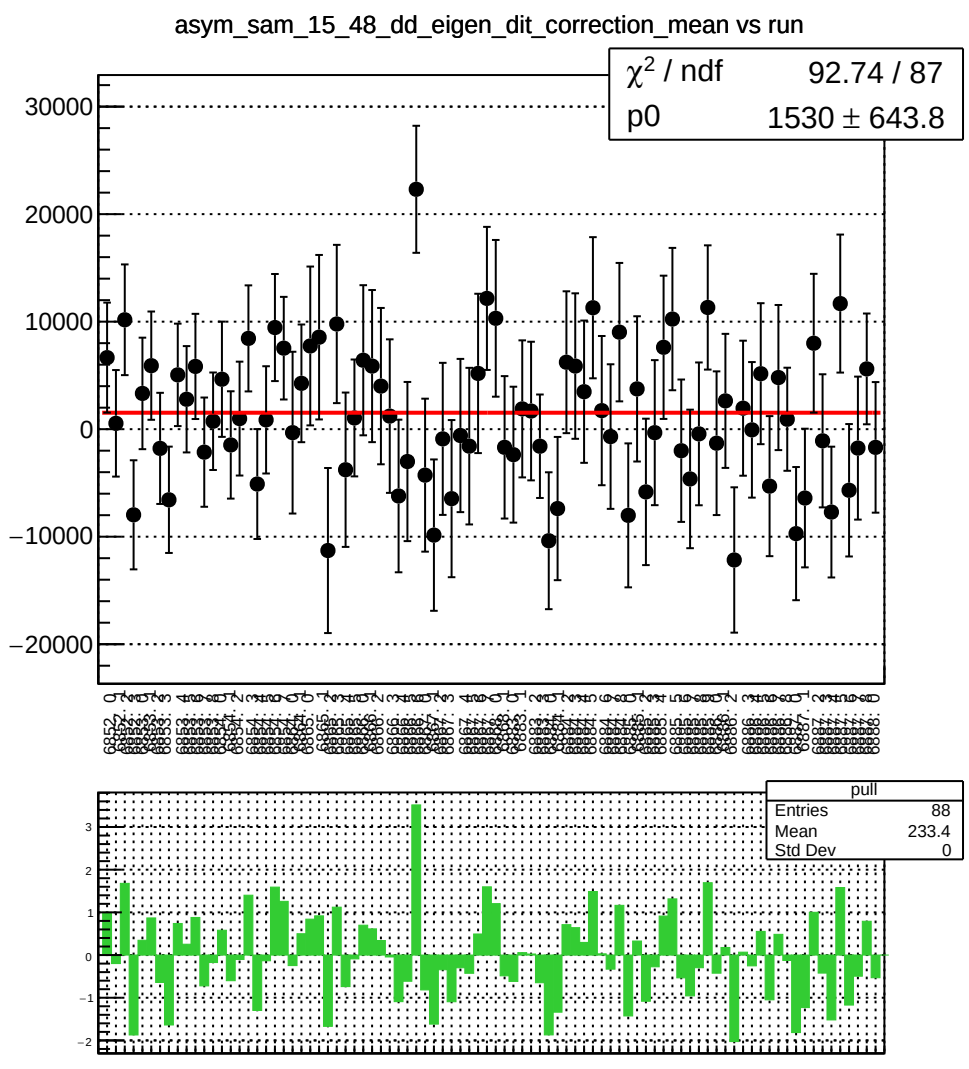

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 92.74 / 87
p0 1530 ± 643.8
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 233.4
Std Dev 0
3
2
1
0
−1
−2

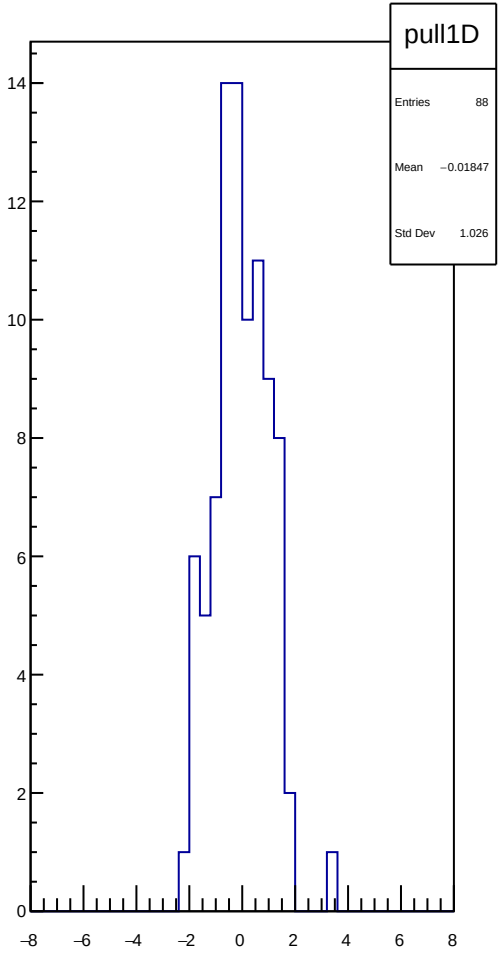

pull1D
Entries 88
Mean −0.01847
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

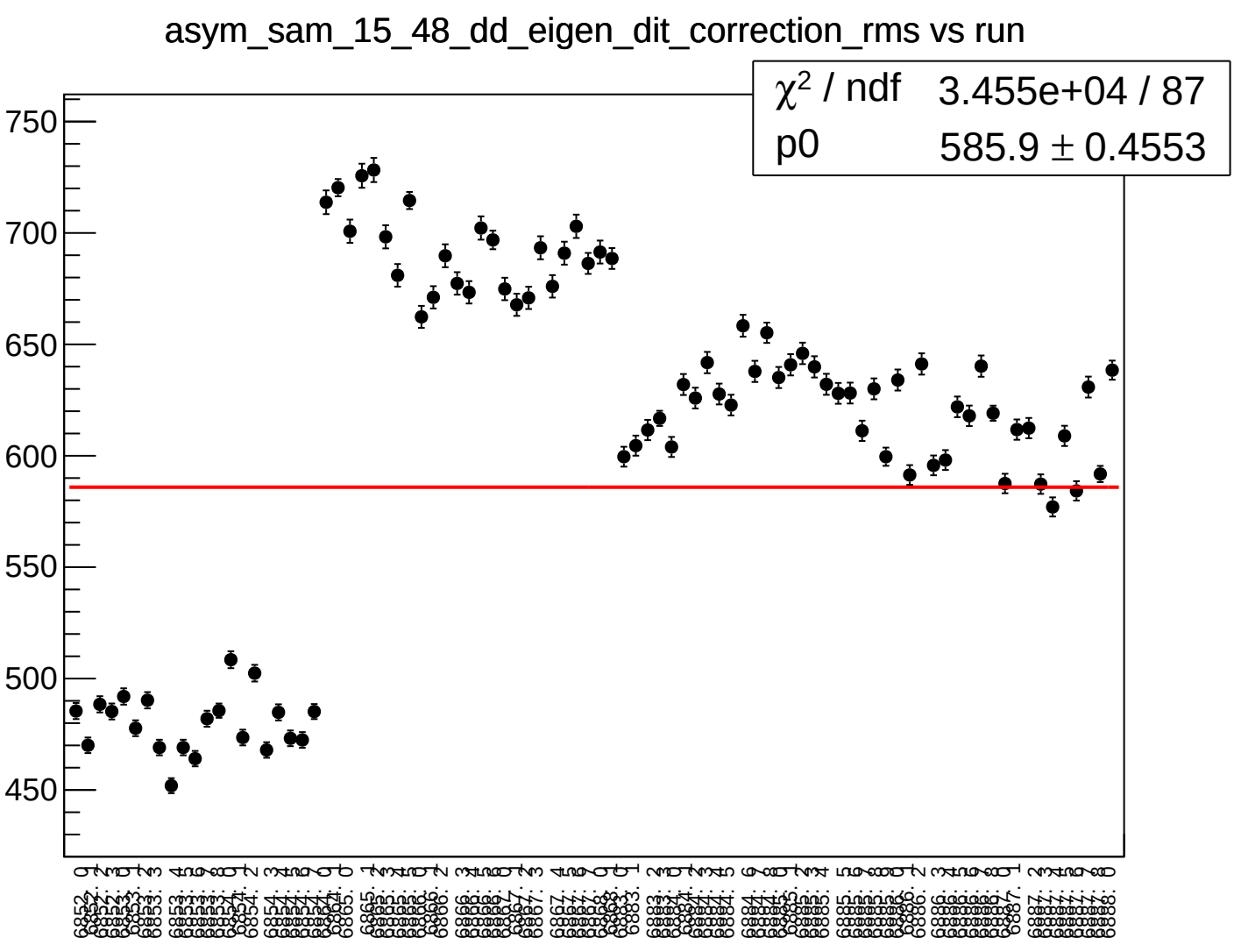

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 3.455e+04 / 87
p0 585.9 ± 0.4553
750
700
650
600
550
500
450

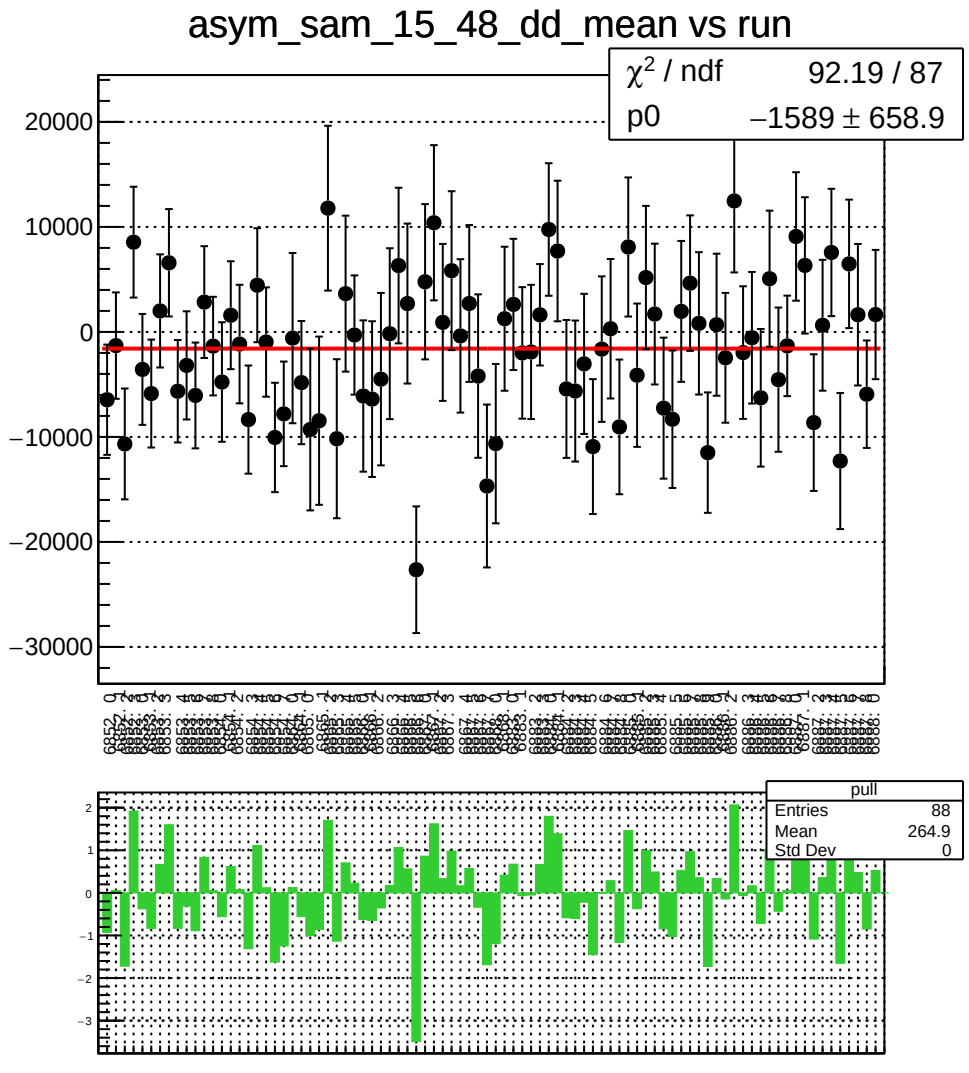

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 65.78 / 87
p0 −78.86 ± 65.99
pull
Entries 88
Mean 564.5
Std Dev 0
pull1D
Entries 88
Mean 0.001588
Std Dev 0.8646

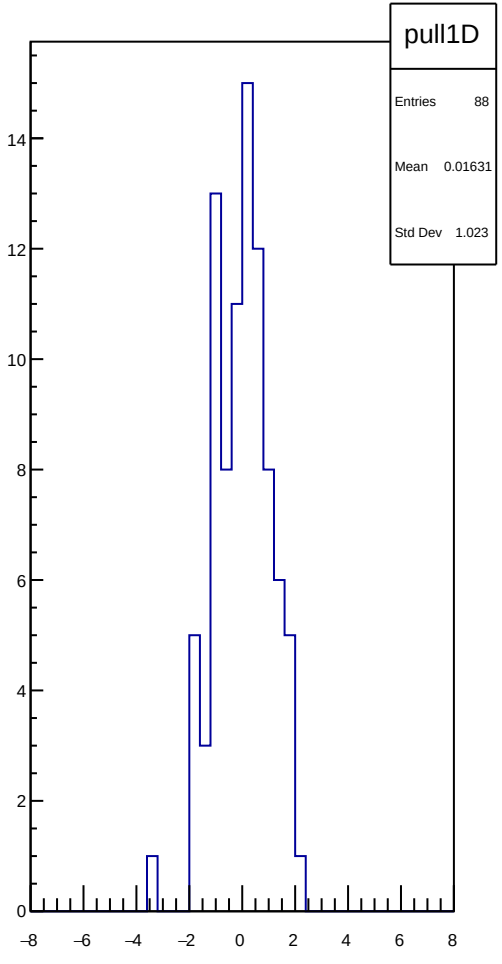

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 4.231e+04 / 87
p0 59.91 ± 0.04666
180
160
140
120
100
80
60

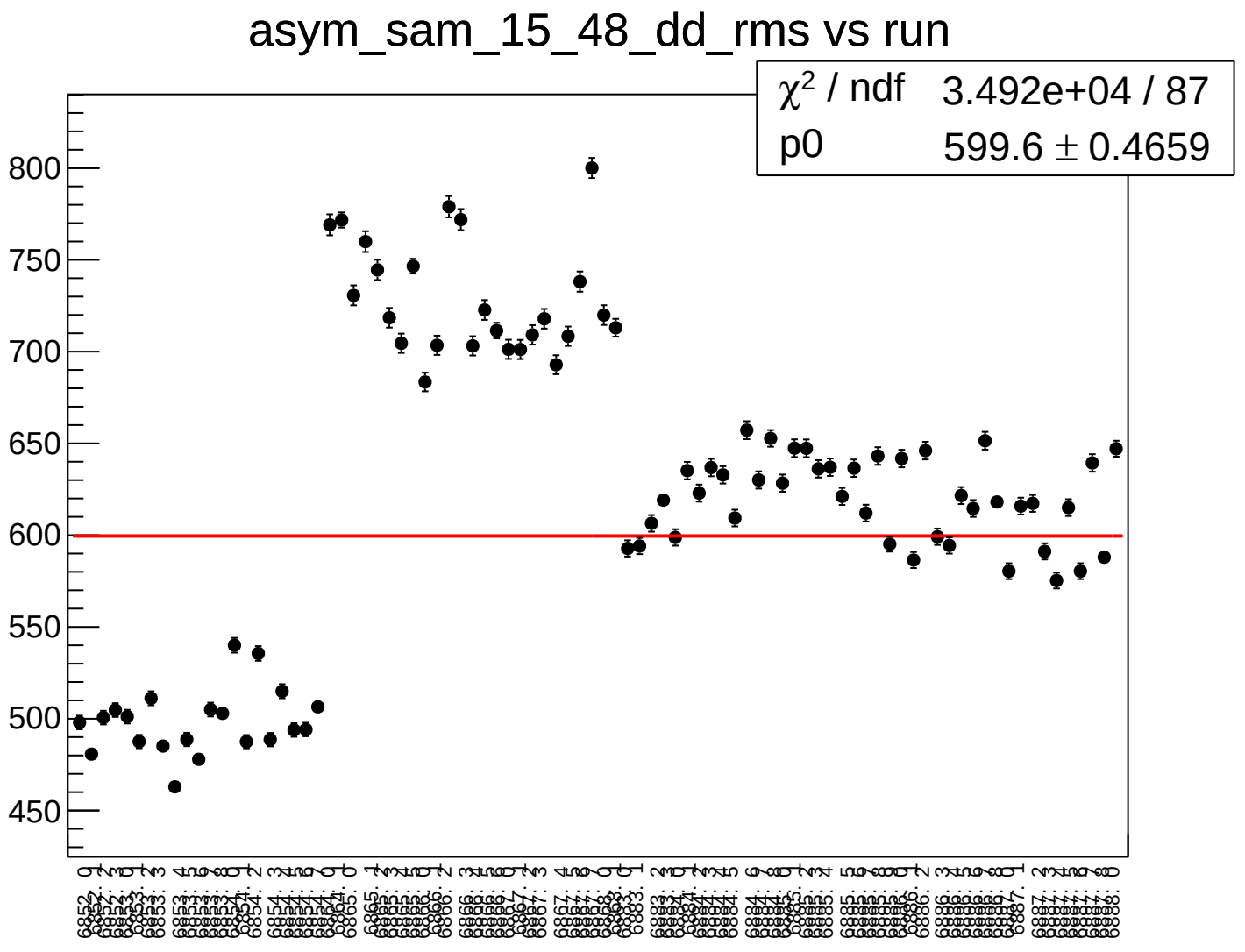

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.74 / 87
p0 1530 ± 643.8
30000
20000
10000
0
−10000
−20000
pull
Entries 88
Mean 233.4
Std Dev 0
3
2
1
0
−1
−2

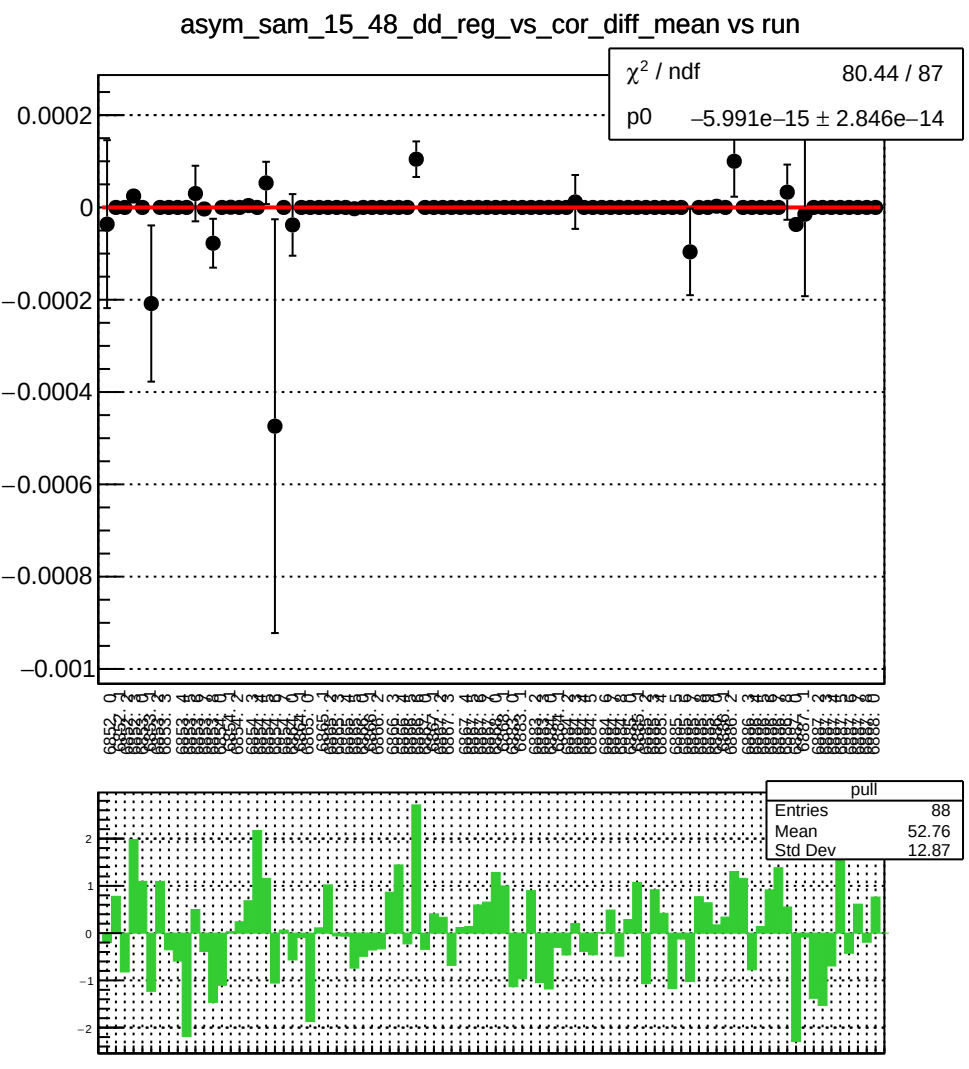

pull1D
Entries 88
Mean −0.01847
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

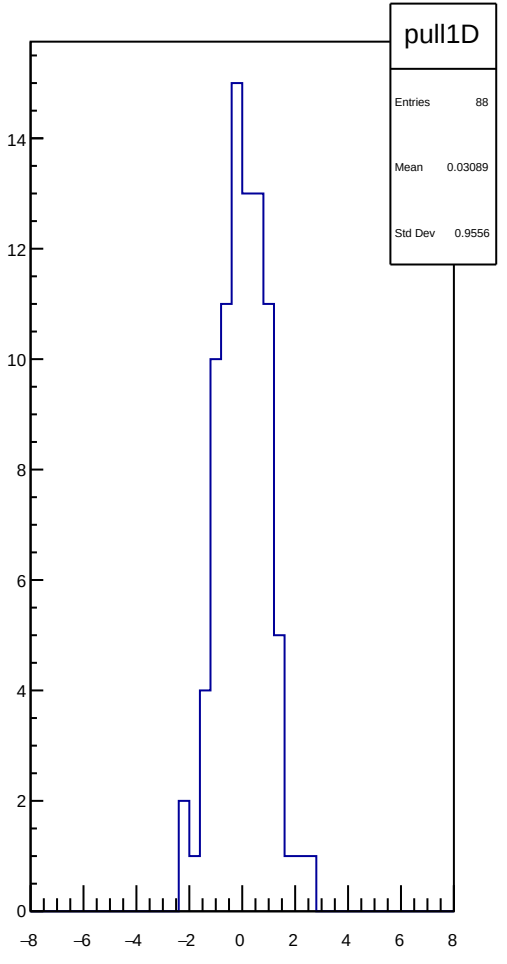

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.455e+04 / 87
p0 585.9 ± 0.4553
750
700
650
600
550
500
450

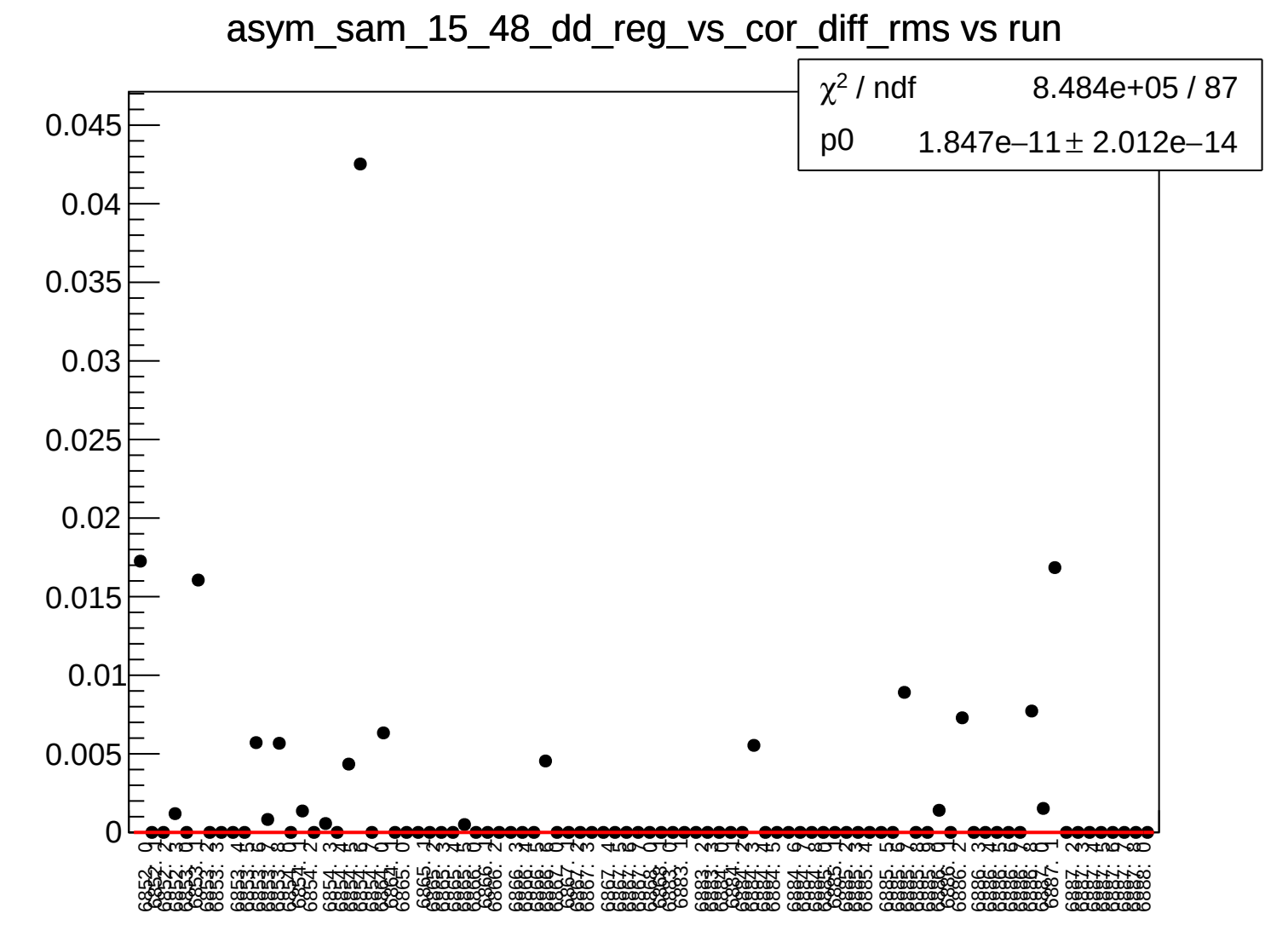

asym_sam_15_48_dd_mean vs run
χ² / ndf 92.19 / 87
p0 −1589 ± 658.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 264.9
Std Dev 0
2
1
0
−1
−2
−3

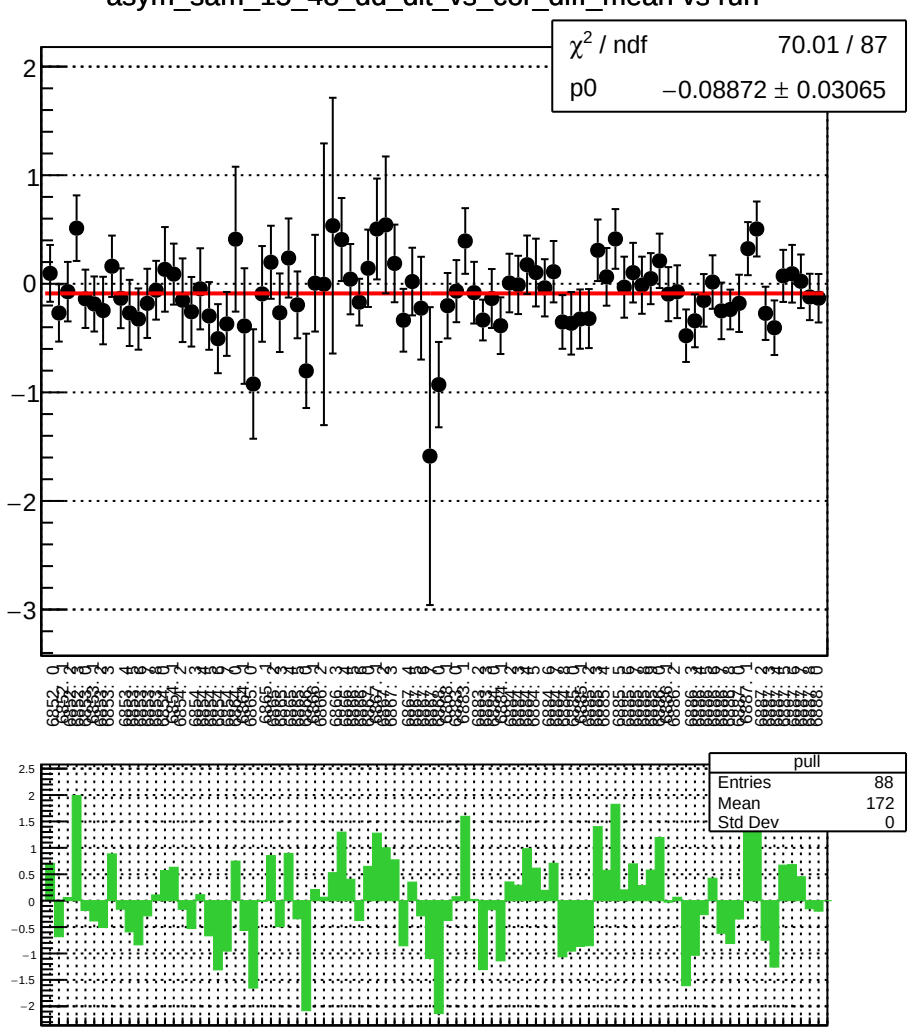

pull1D
Entries 88
Mean 0.01631
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

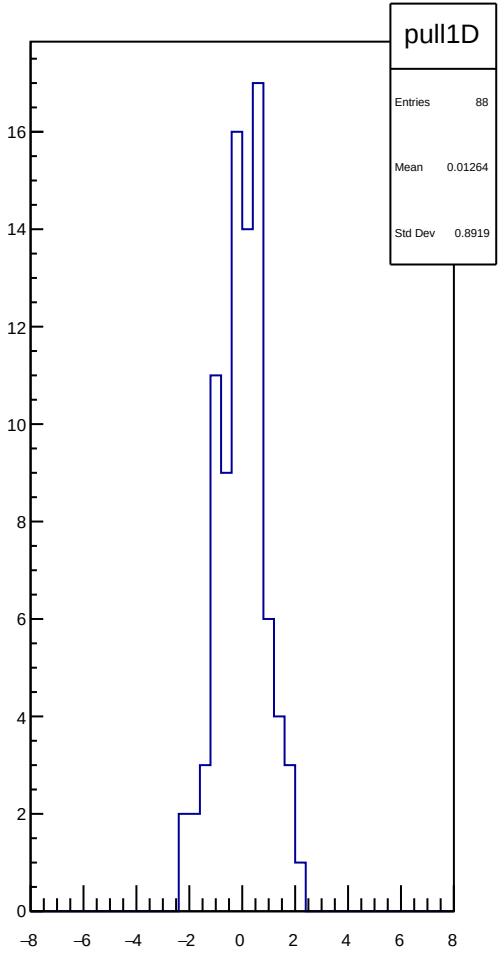

asym_sam_15_48_dd_rms vs run
χ² / ndf 3.492e+04 / 87
p0 599.6 ± 0.4659
800
750
700
650
600
550
500
450

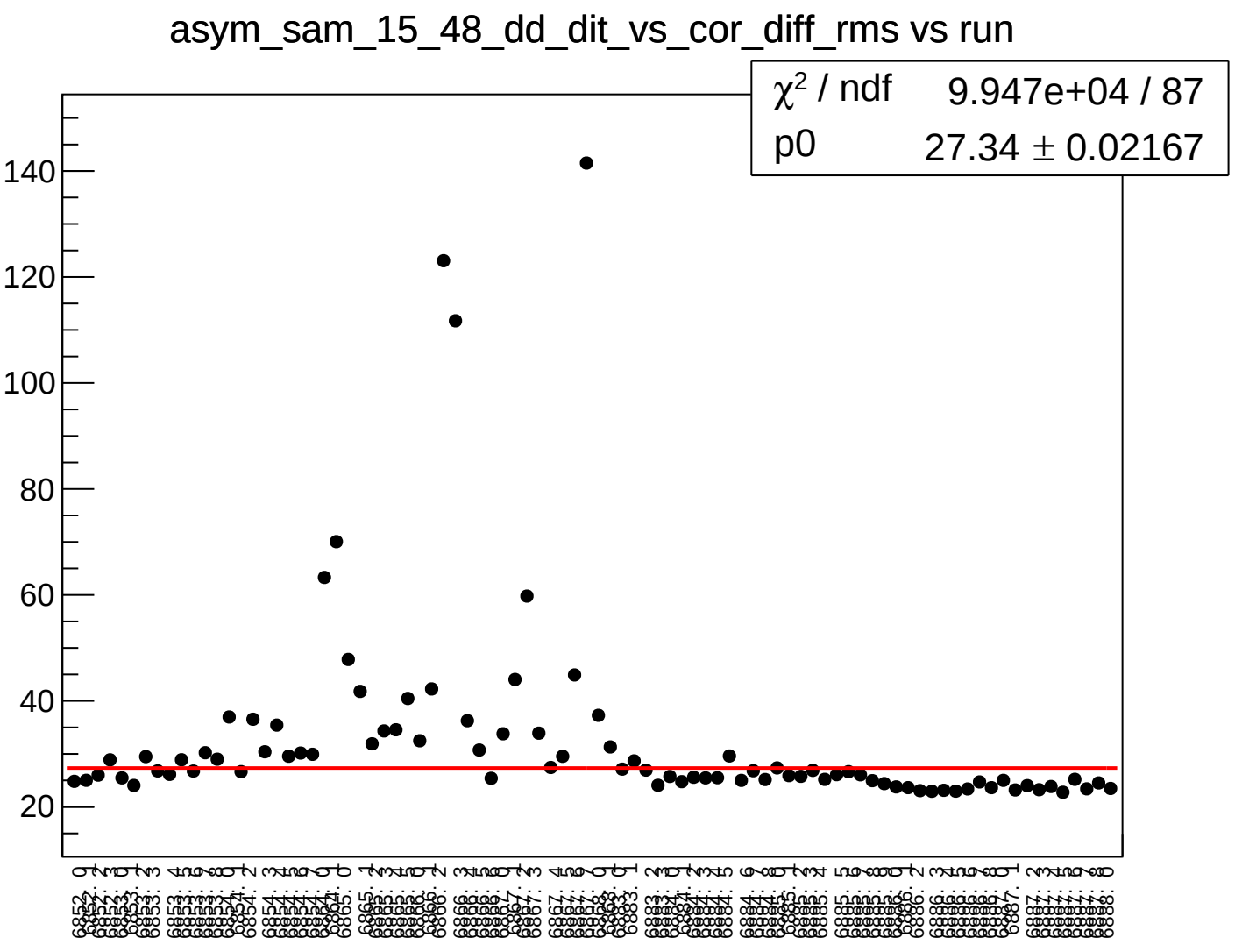

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.44 / 87
p0 −5.991e−15 ± 2.846e−14
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 88
Mean 52.76
Std Dev 12.87
2
1
0
−1
−2

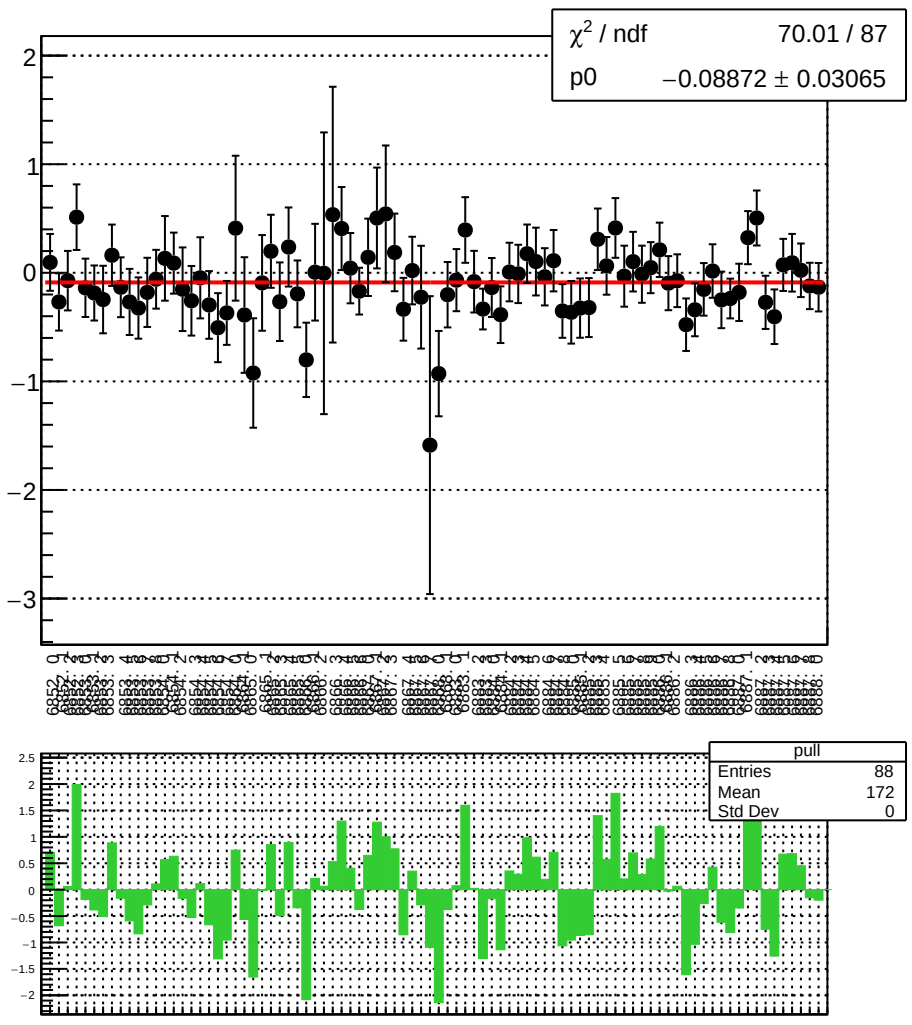

pull1D
Entries 88
Mean 0.03089
Std Dev 0.9556
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

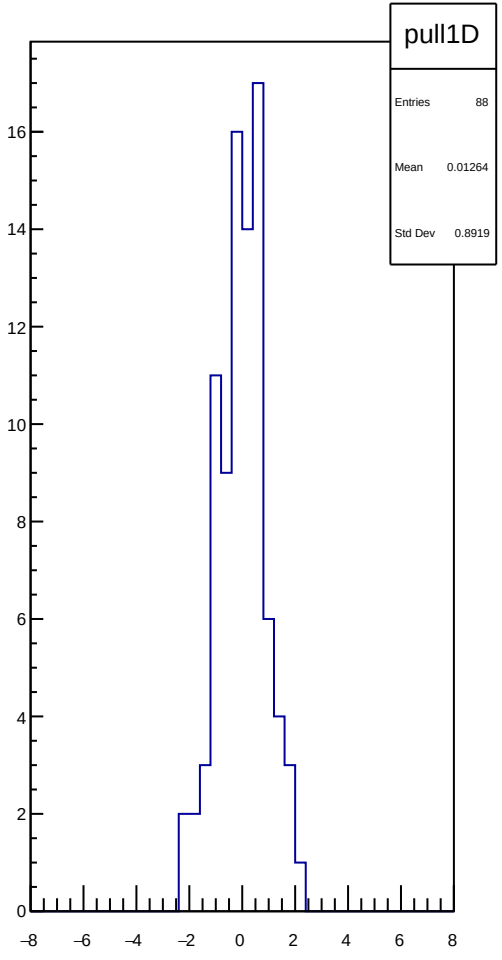

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.484e+05 / 87
p0 1.847e−11 ± 2.012e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

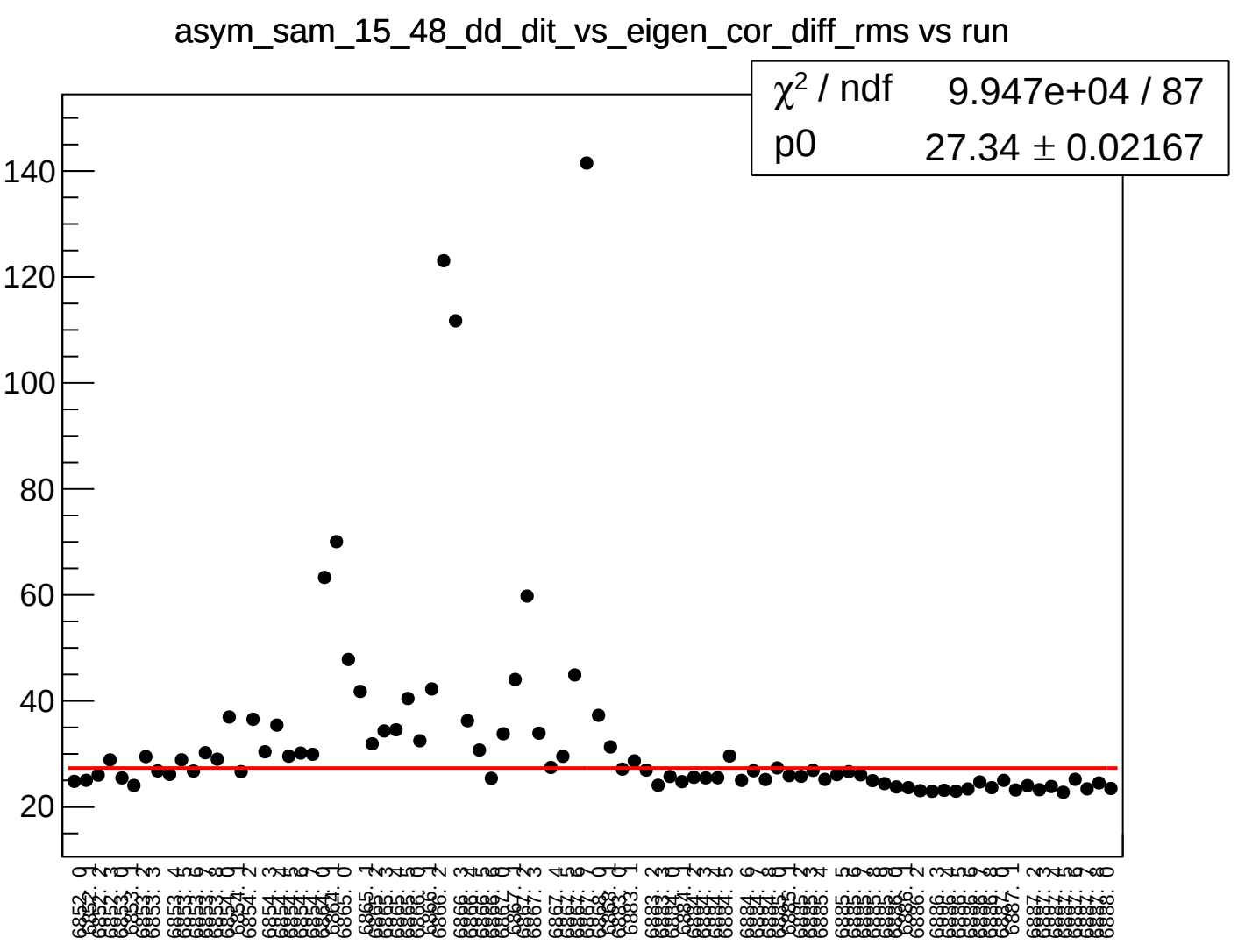

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.01 / 87
p0 −0.08872 ± 0.03065
pull
Entries 88
Mean 172
Std Dev 0

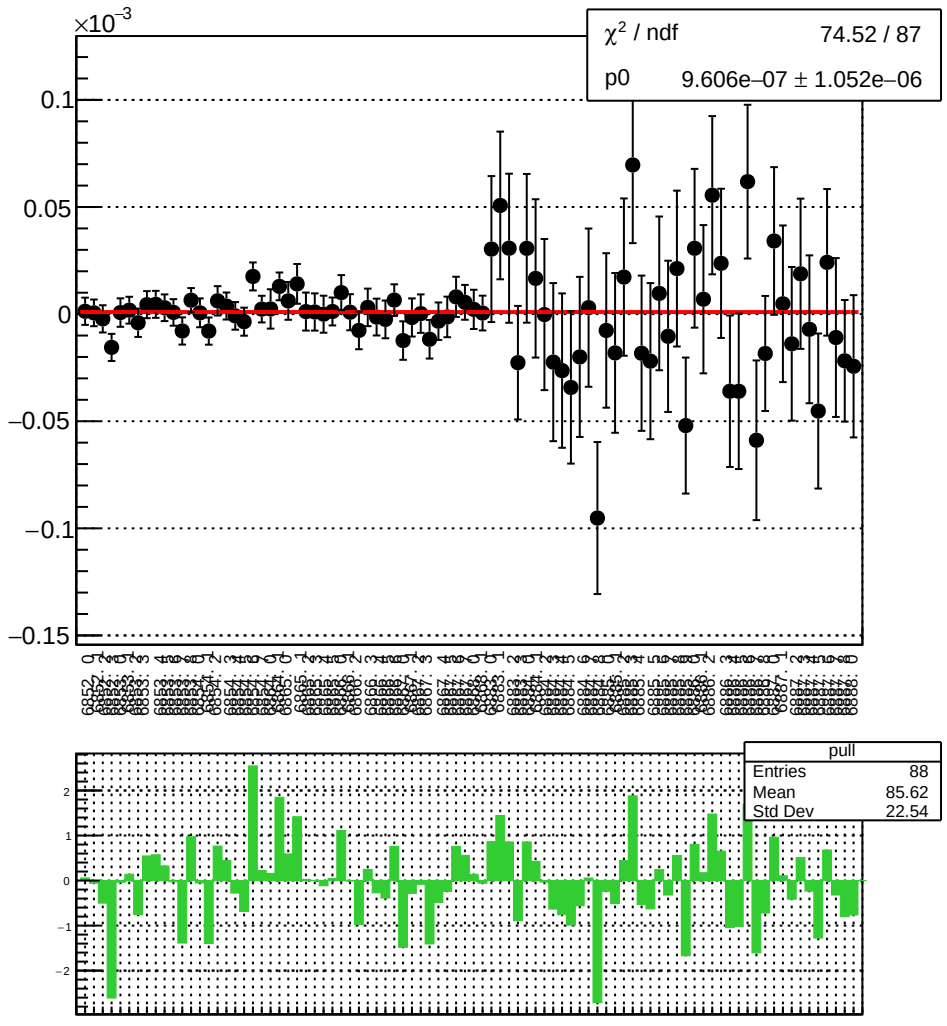

pull1D
Entries 88
Mean 0.01264
Std Dev 0.8919

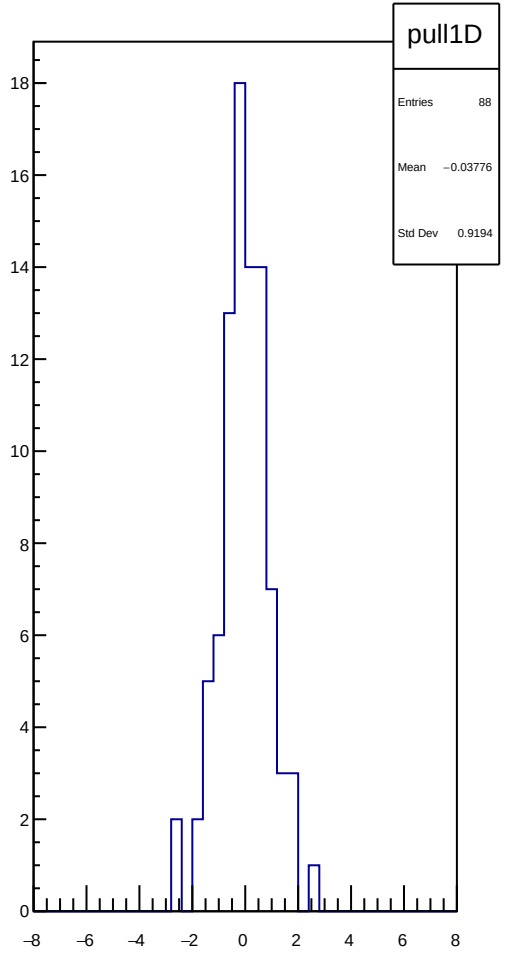

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.947e+04 / 87
p0 27.34 ± 0.02167
140
120
100
80
60
40
20

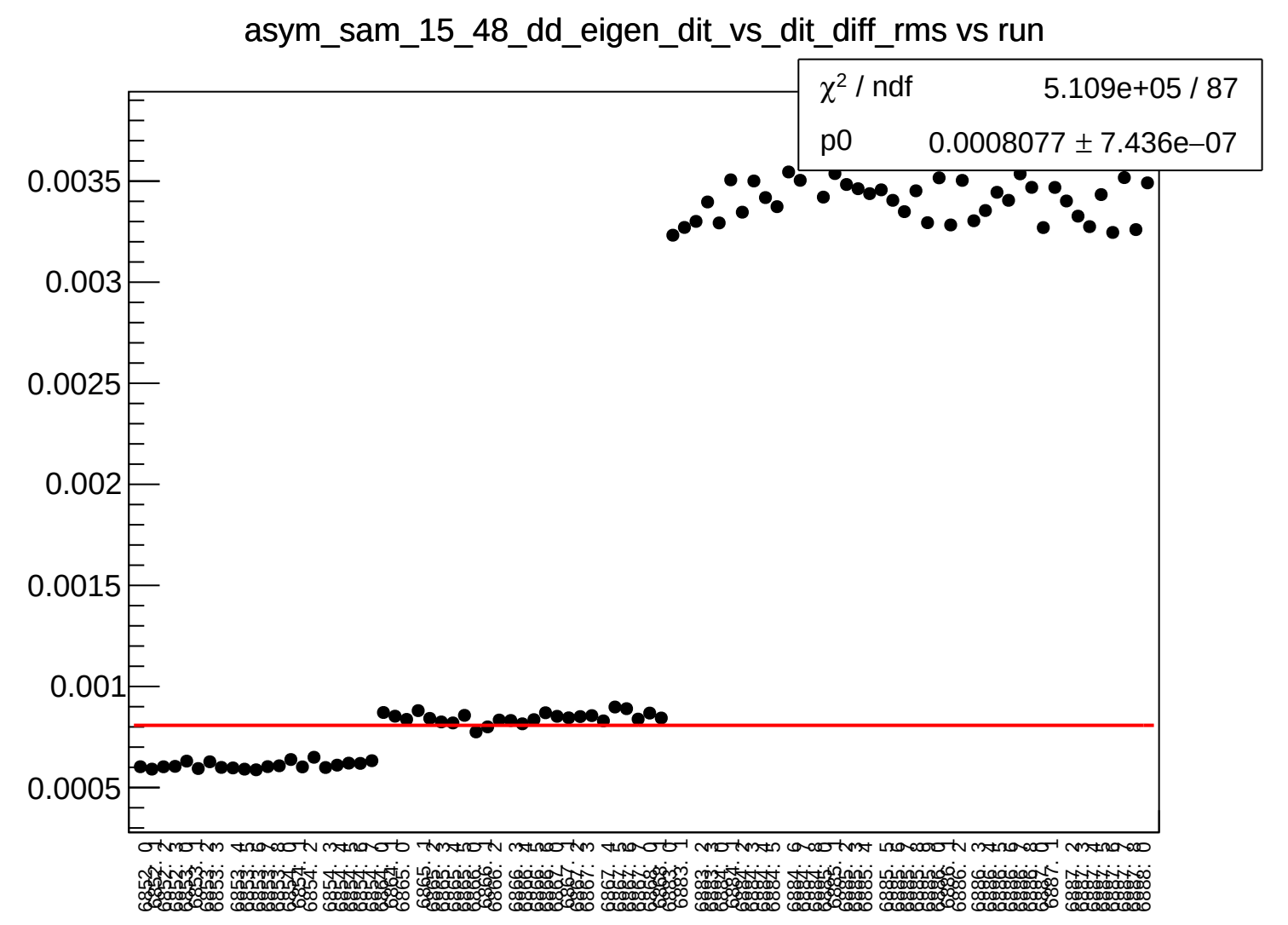

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.01 / 87
p0 −0.08872 ± 0.03065
pull
Entries 88
Mean 172
Std Dev 0

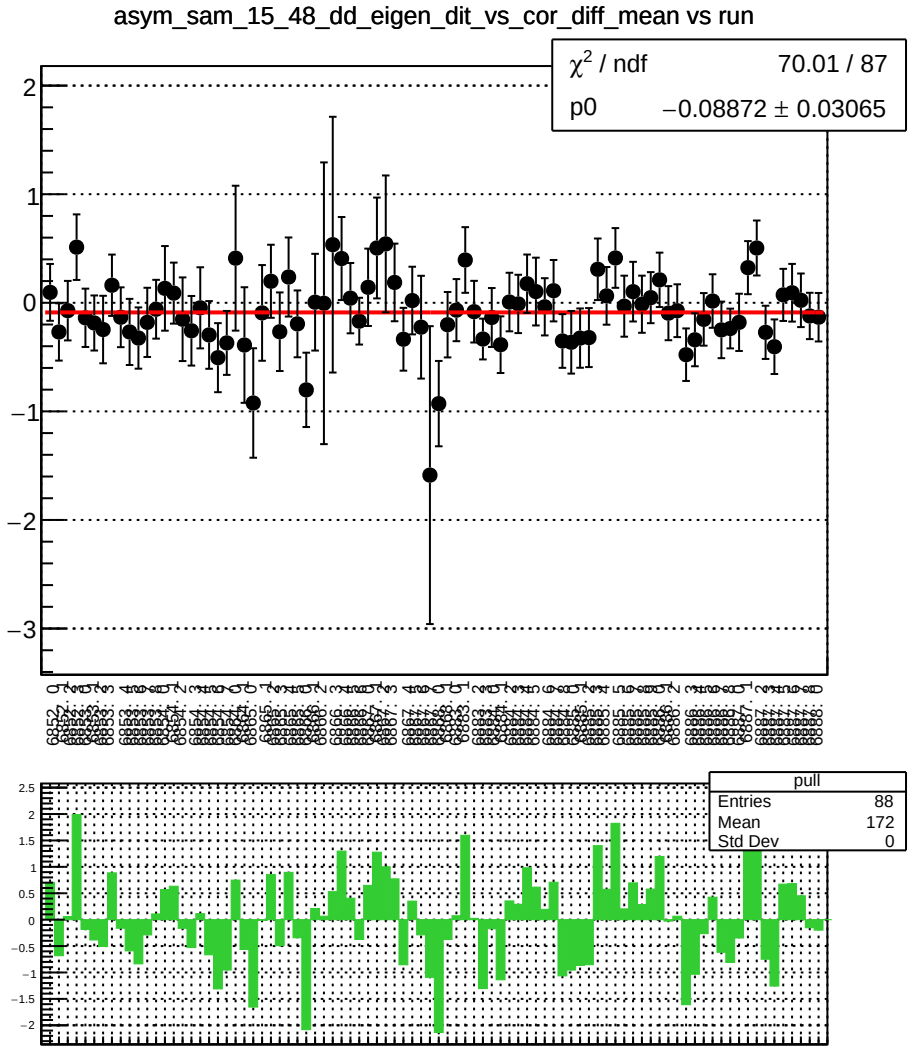

pull1D
Entries 88
Mean 0.01264
Std Dev 0.8919

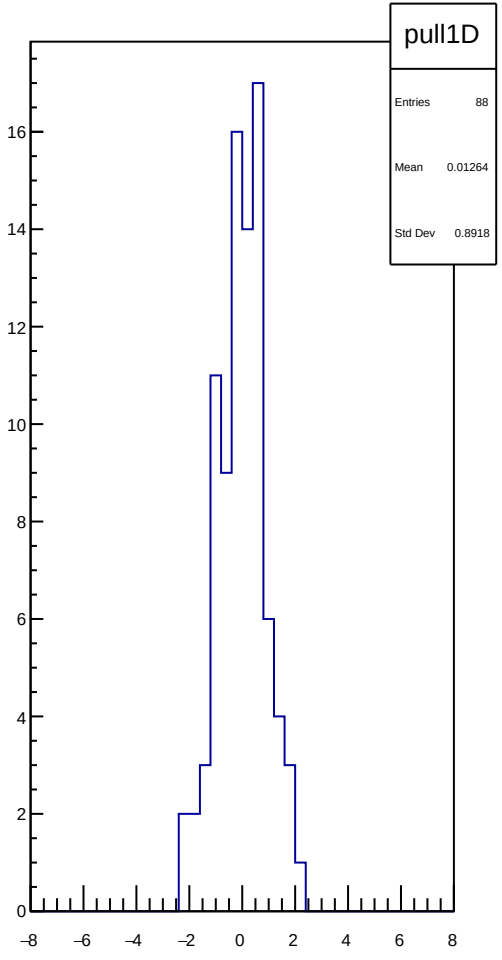

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.947e+04 / 87
p0 27.34 ± 0.02167
140
120
100
80
60
40
20

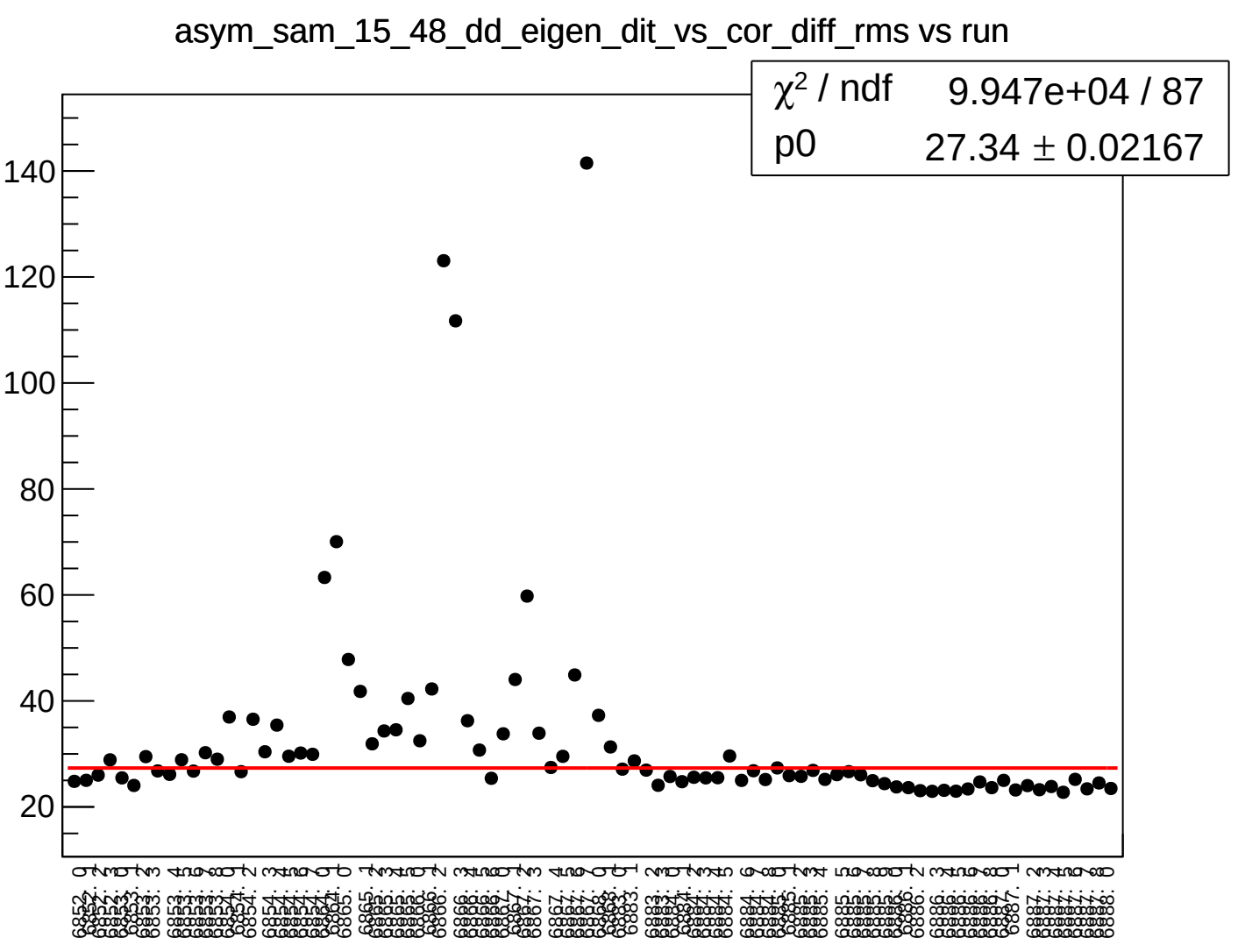

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 74.52 / 87
p0 9.606e−07 ± 1.052e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 85.62
Std Dev 22.54
2
1
0
−1
−2

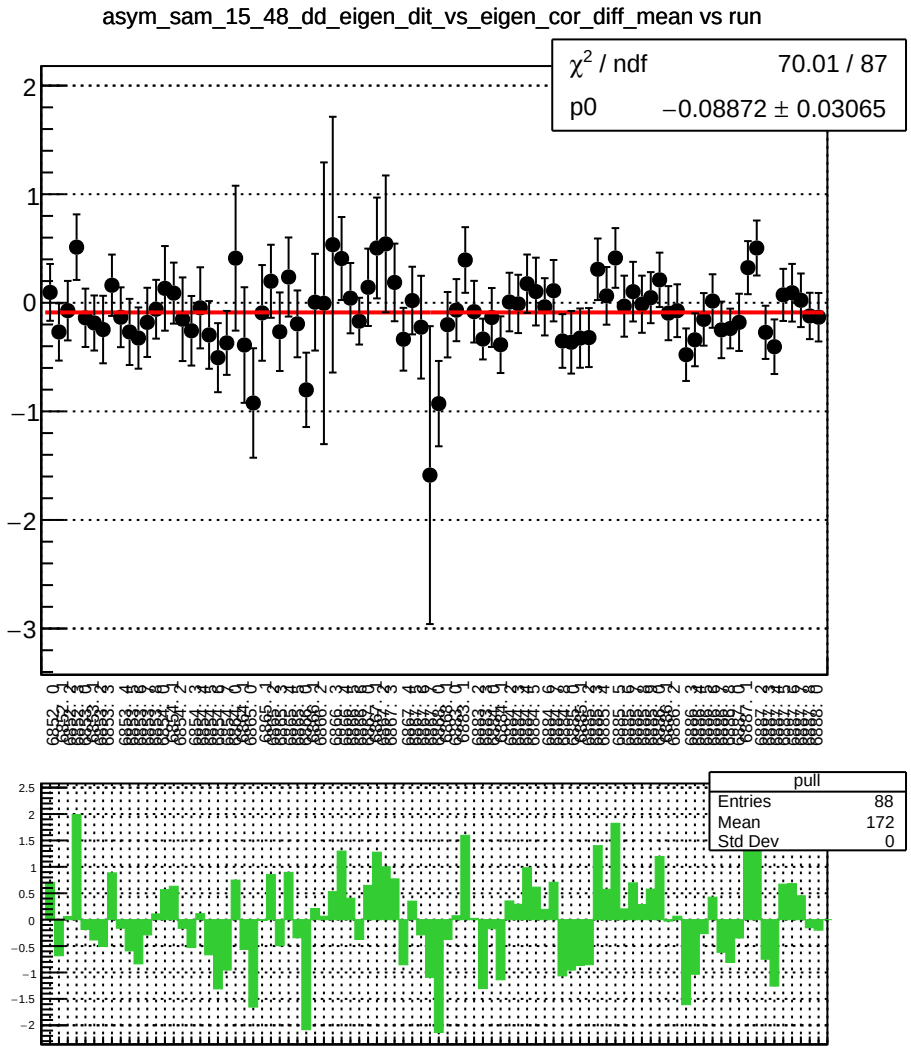

pull1D
Entries 88
Mean −0.03776
Std Dev 0.9194
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

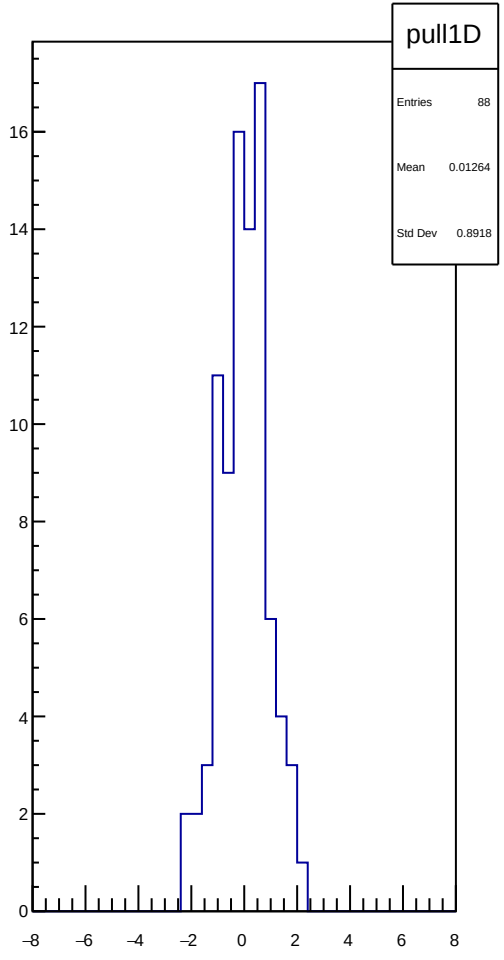

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.109e+05 / 87
p0 0.0008077 ± 7.436e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

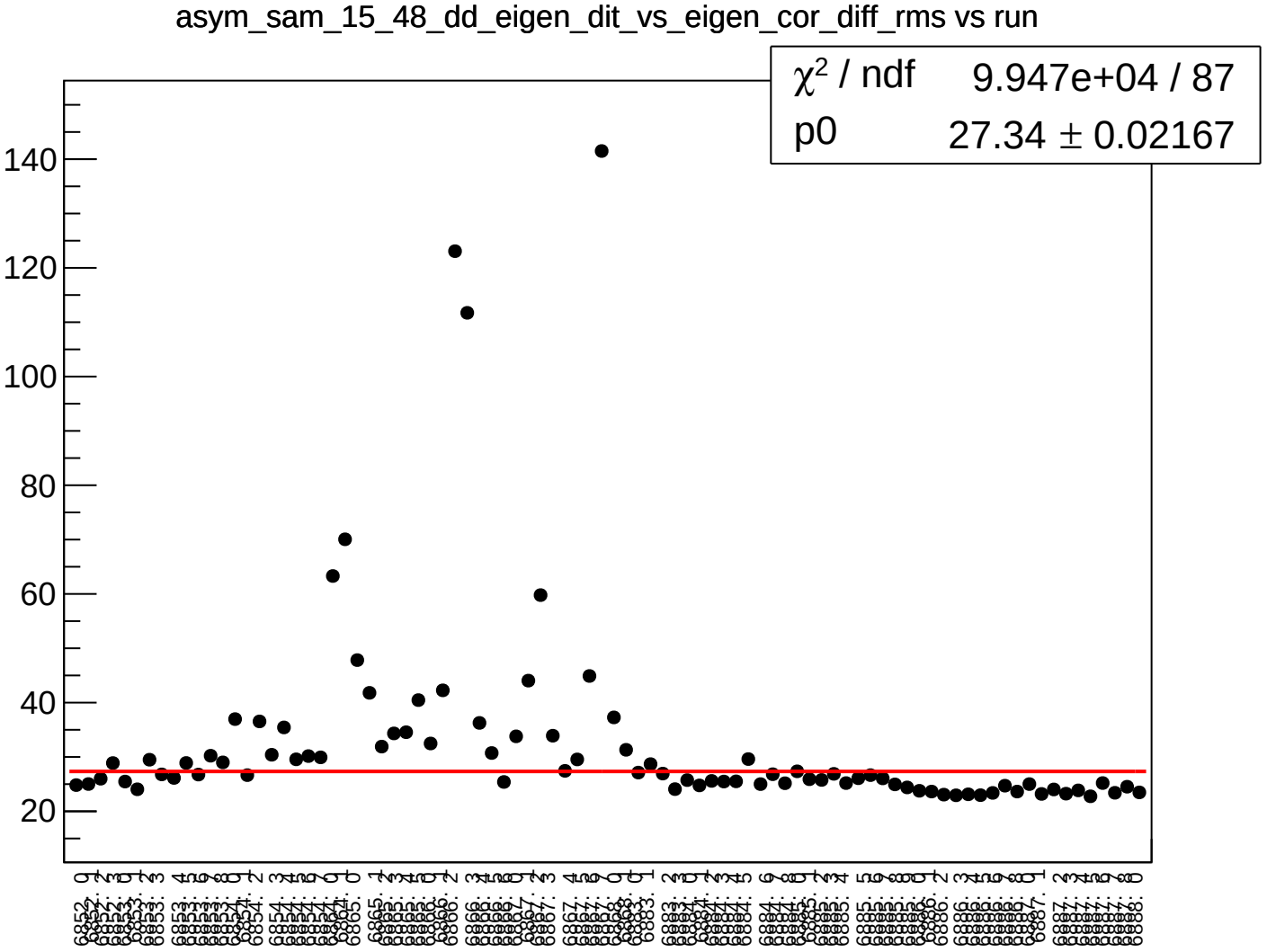

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.01 / 87
p0 −0.08872 ± 0.03065
pull
Entries 88
Mean 172
Std Dev 0

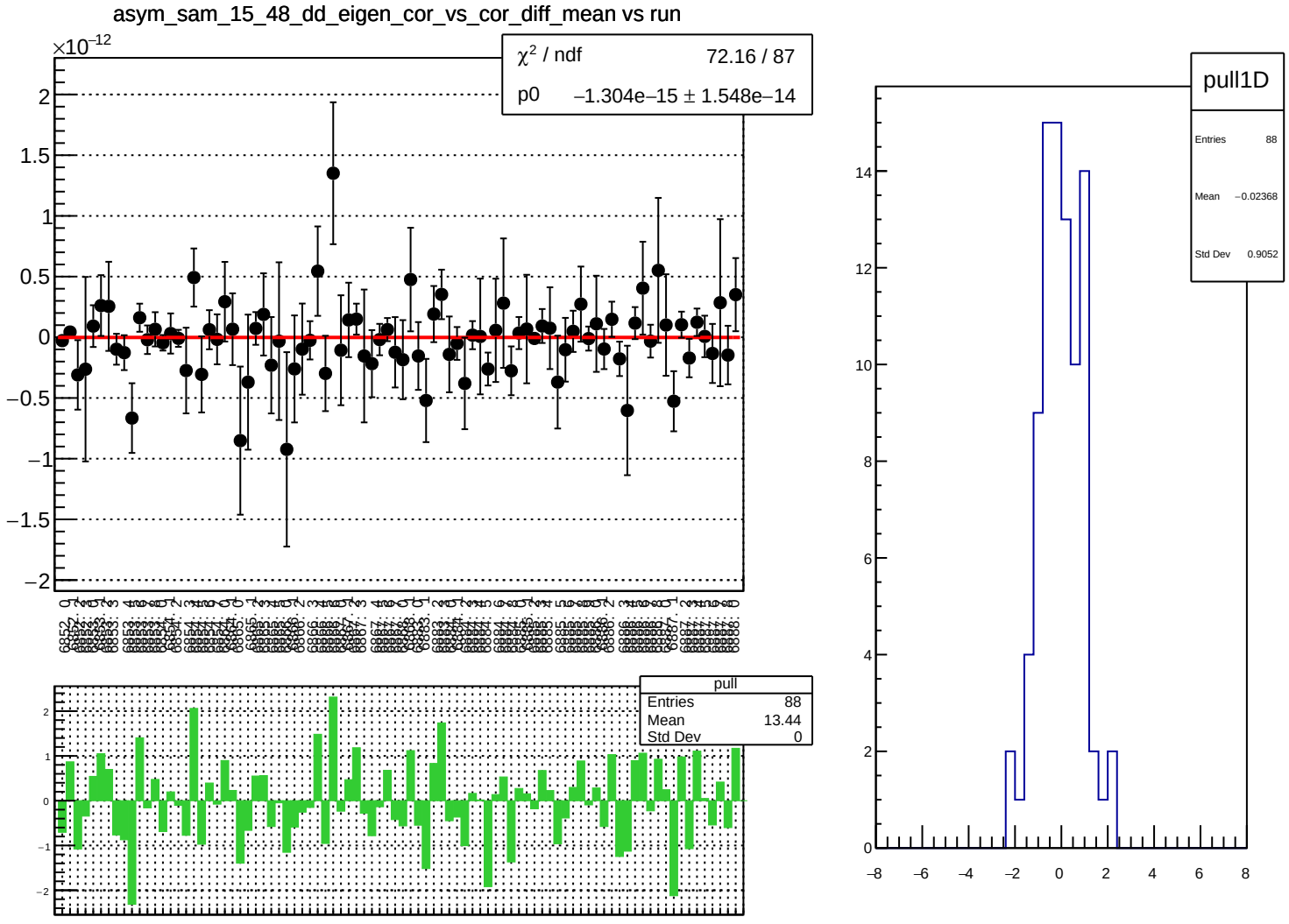

pull1D
Entries 88
Mean 0.01264
Std Dev 0.8918

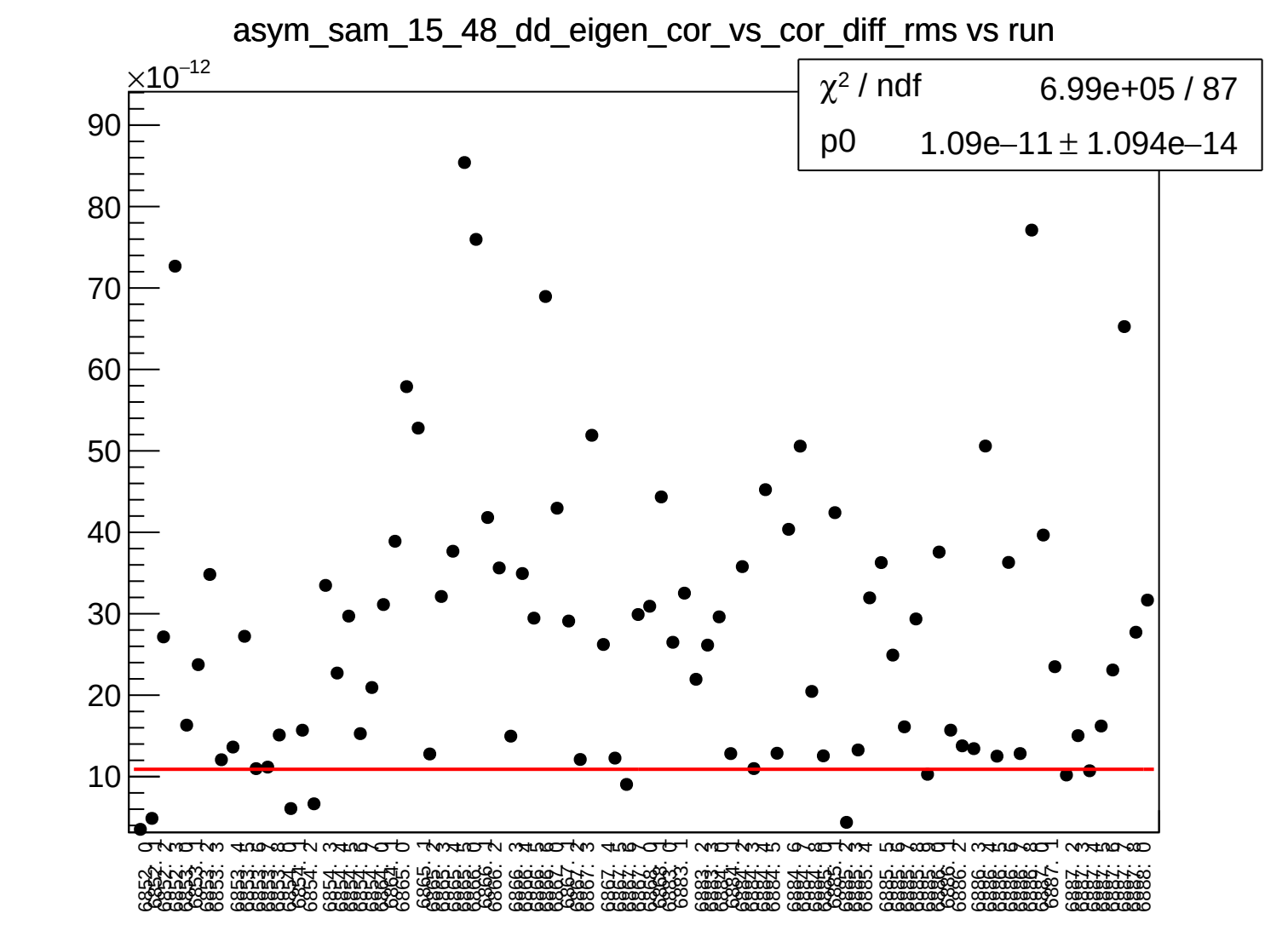

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.947e+04 / 87
p0 27.34 ± 0.02167
140
120
100
80
60
40
20

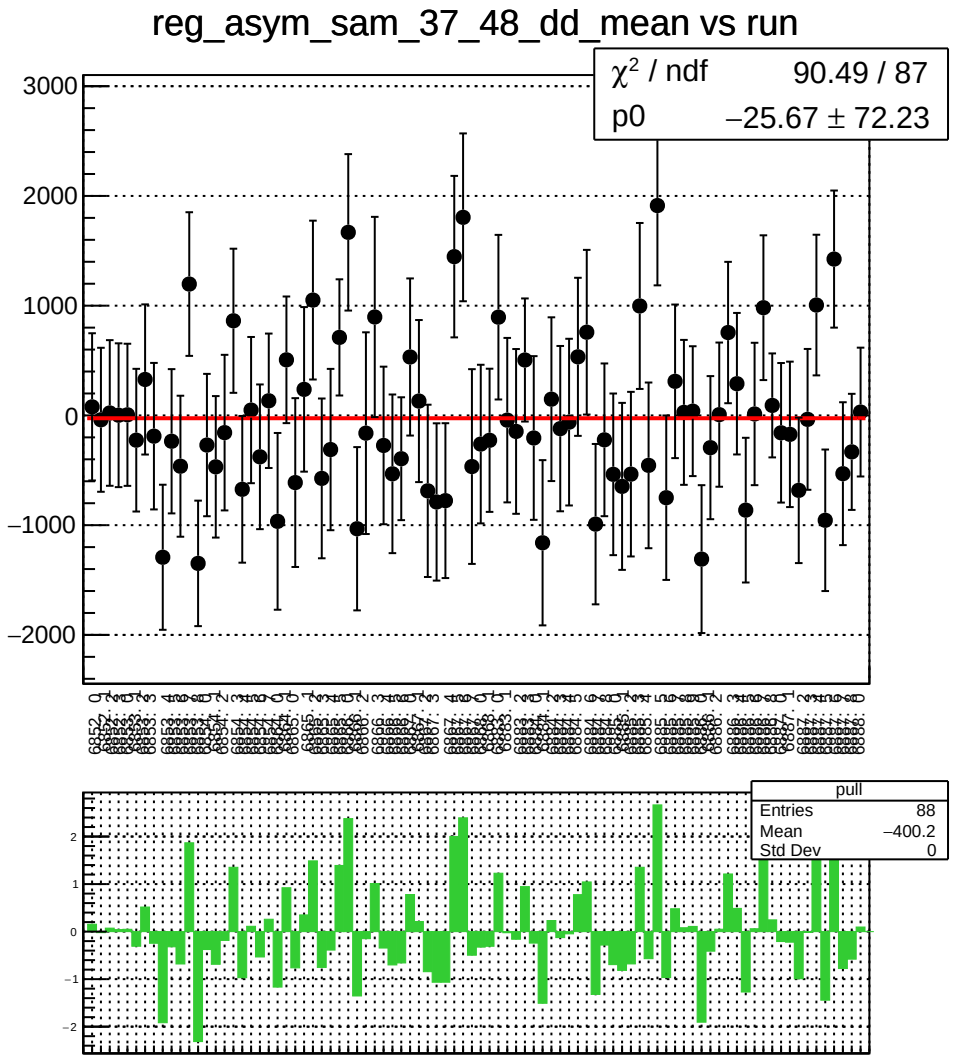

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.01 / 87
p0 −0.08872 ± 0.03065
pull
Entries 88
Mean 172
Std Dev 0

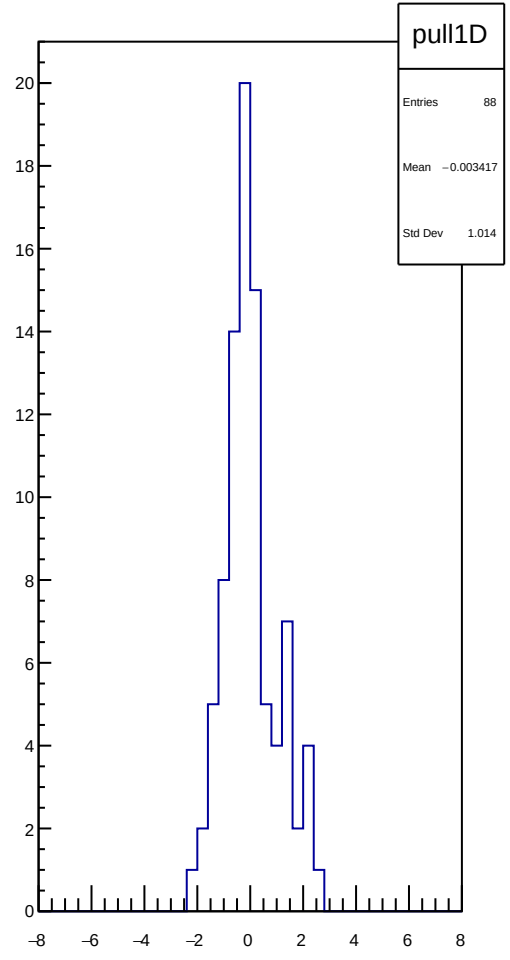

pull1D
Entries 88
Mean 0.01264
Std Dev 0.8918

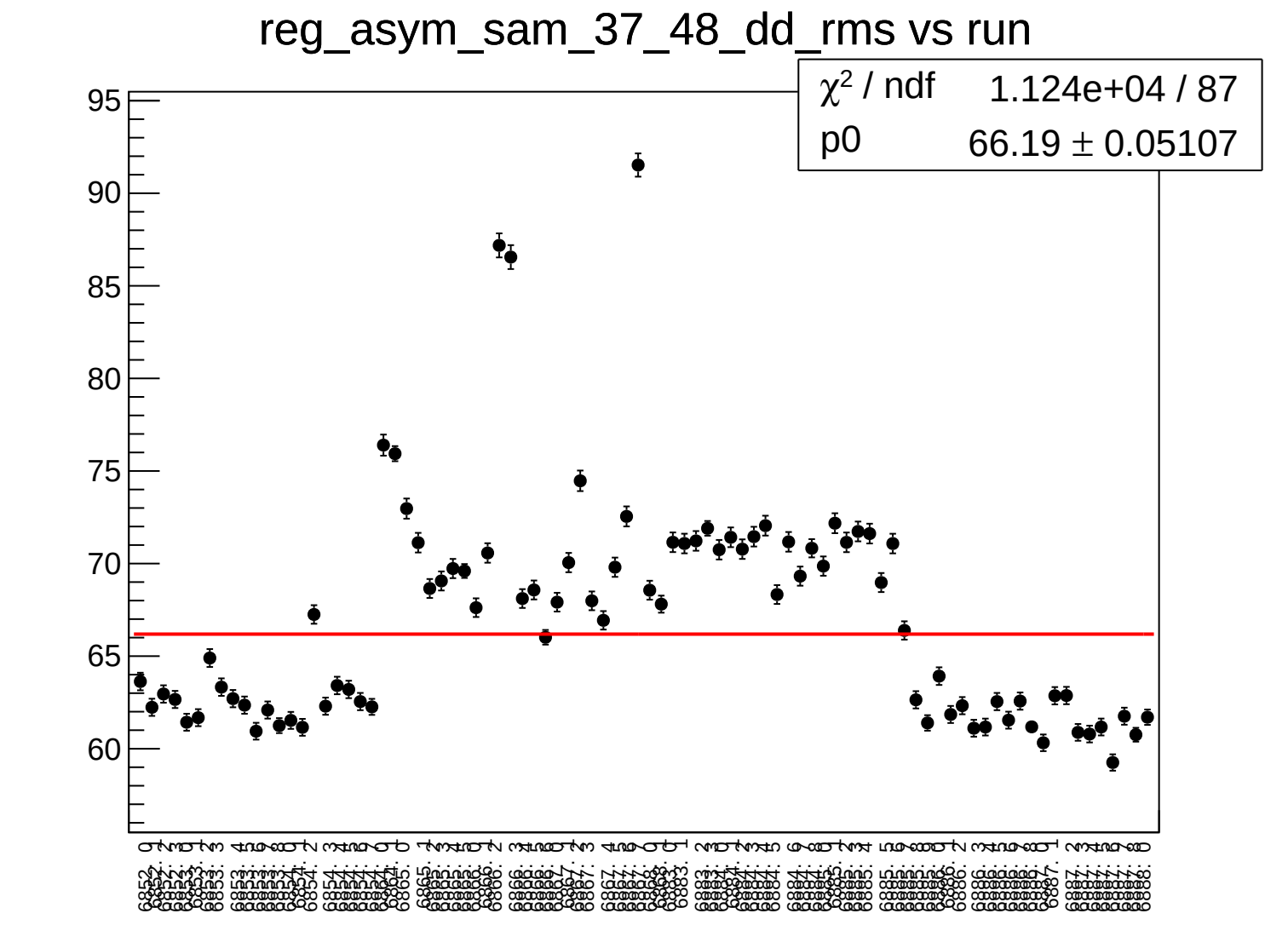

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.947e+04 / 87
p0 27.34 ± 0.02167
140
120
100
80
60
40
20

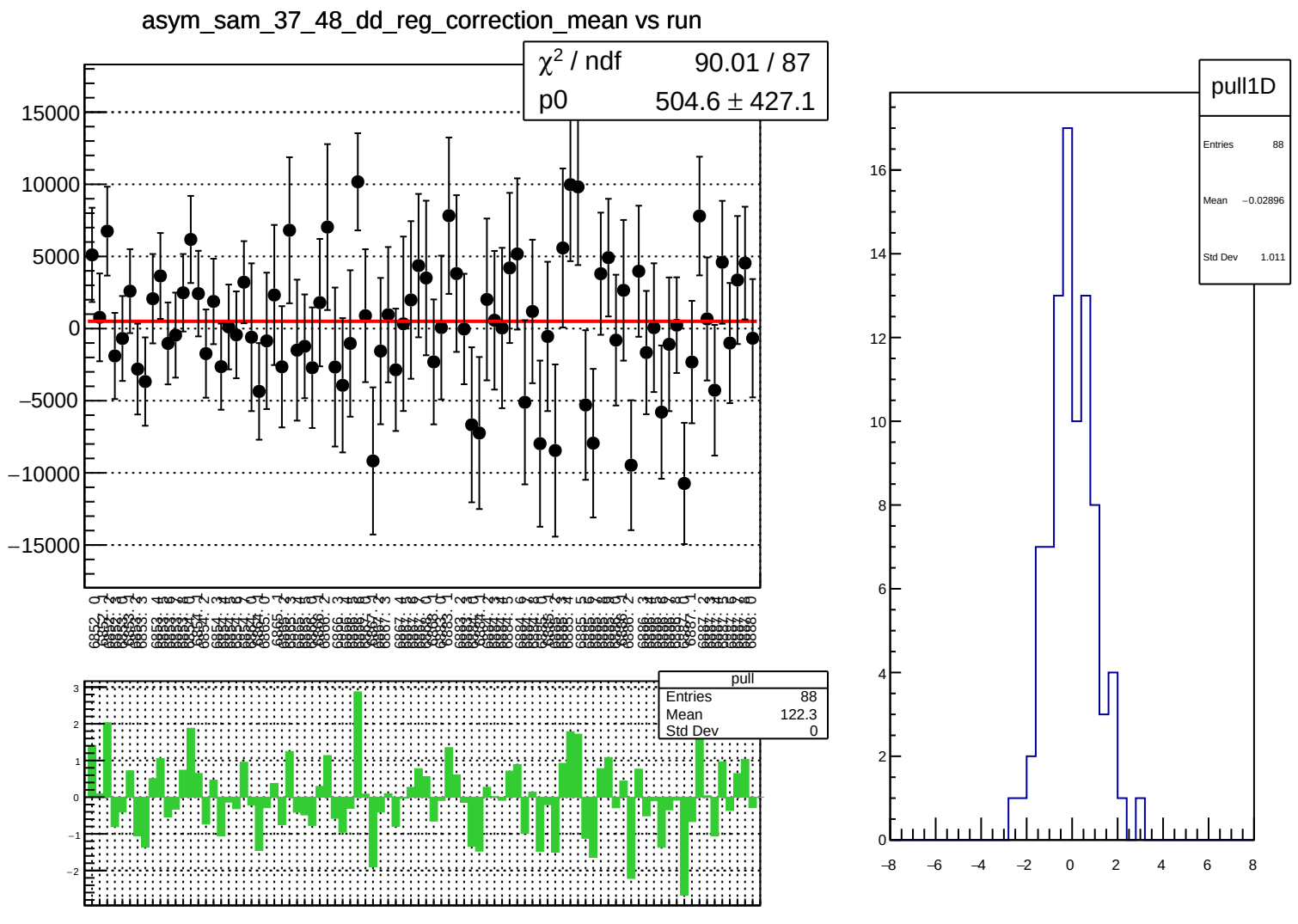

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.16 / 87
p0 −1.304e−15 ± 1.548e−14
pull
Entries 88
Mean 13.44
Std Dev 0
pull1D
Entries 88
Mean −0.02368
Std Dev 0.9052

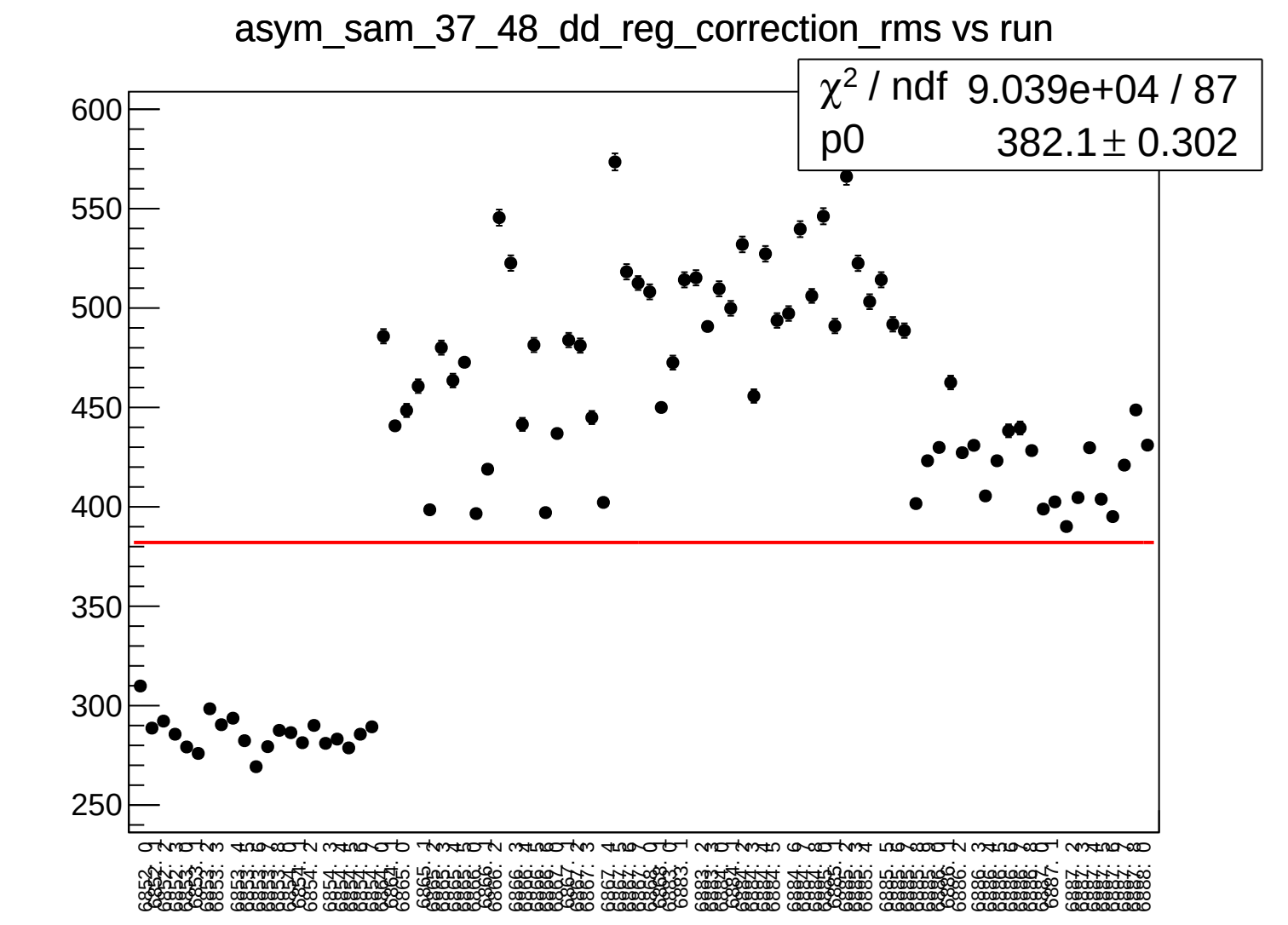

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.99e+05 / 87
p0 1.09e−11 ± 1.094e−14
90
80
70
60
50
40
30
20
10

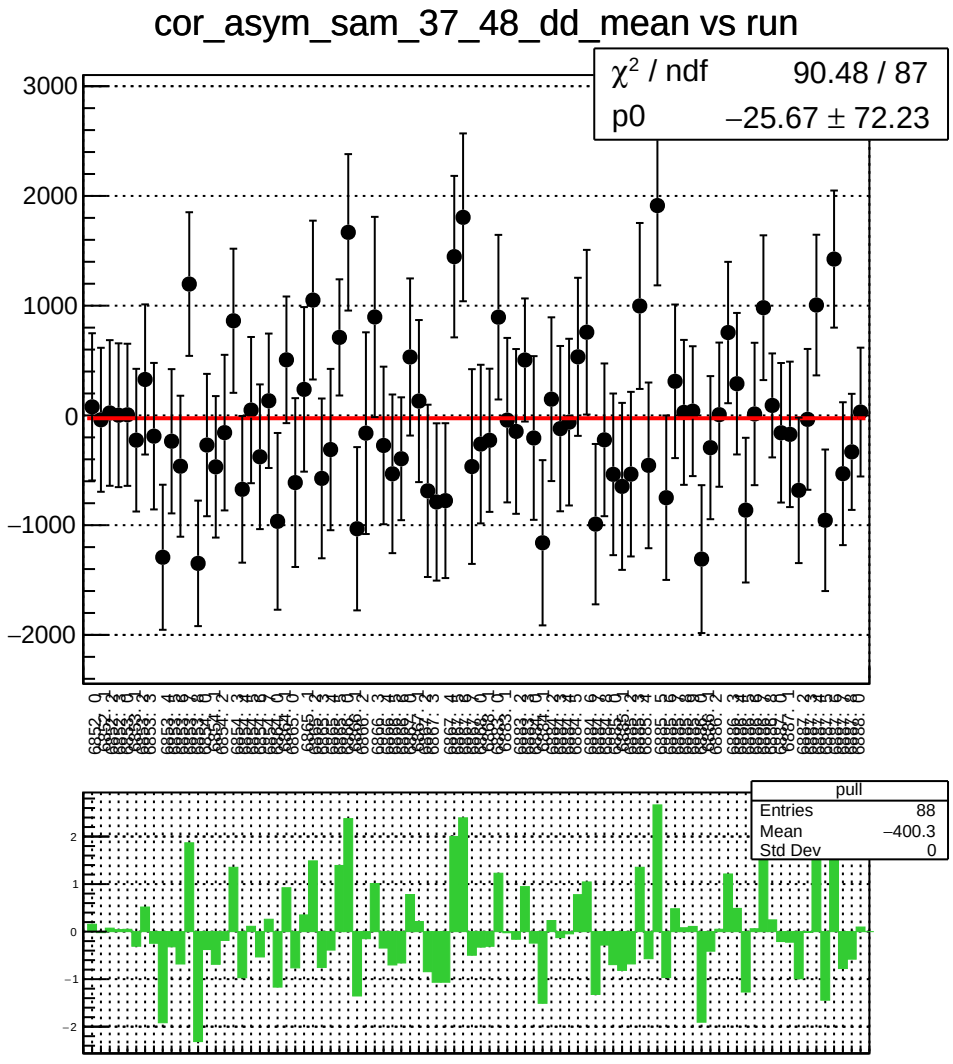

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.49 / 87
p0 −25.67 ± 72.23
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −400.2
Std Dev 0
2
1
0
−1
−2

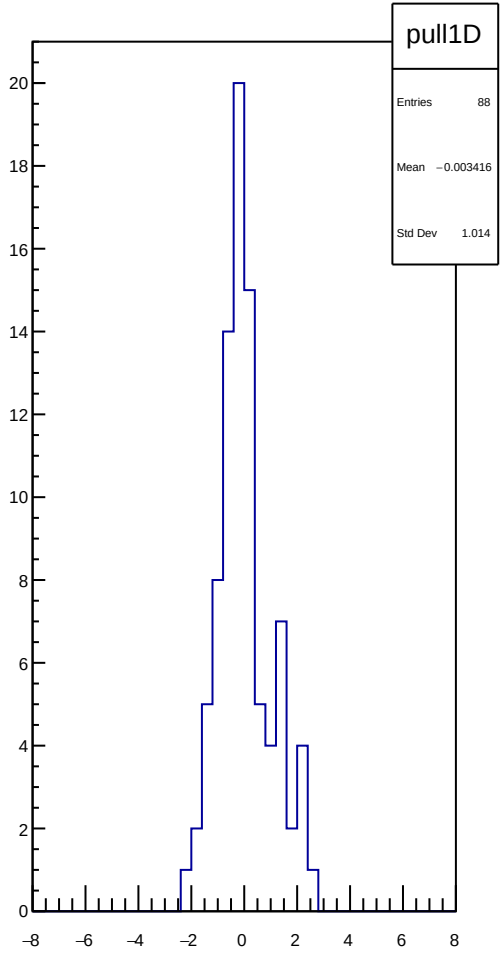

pull1D
Entries 88
Mean −0.003417
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

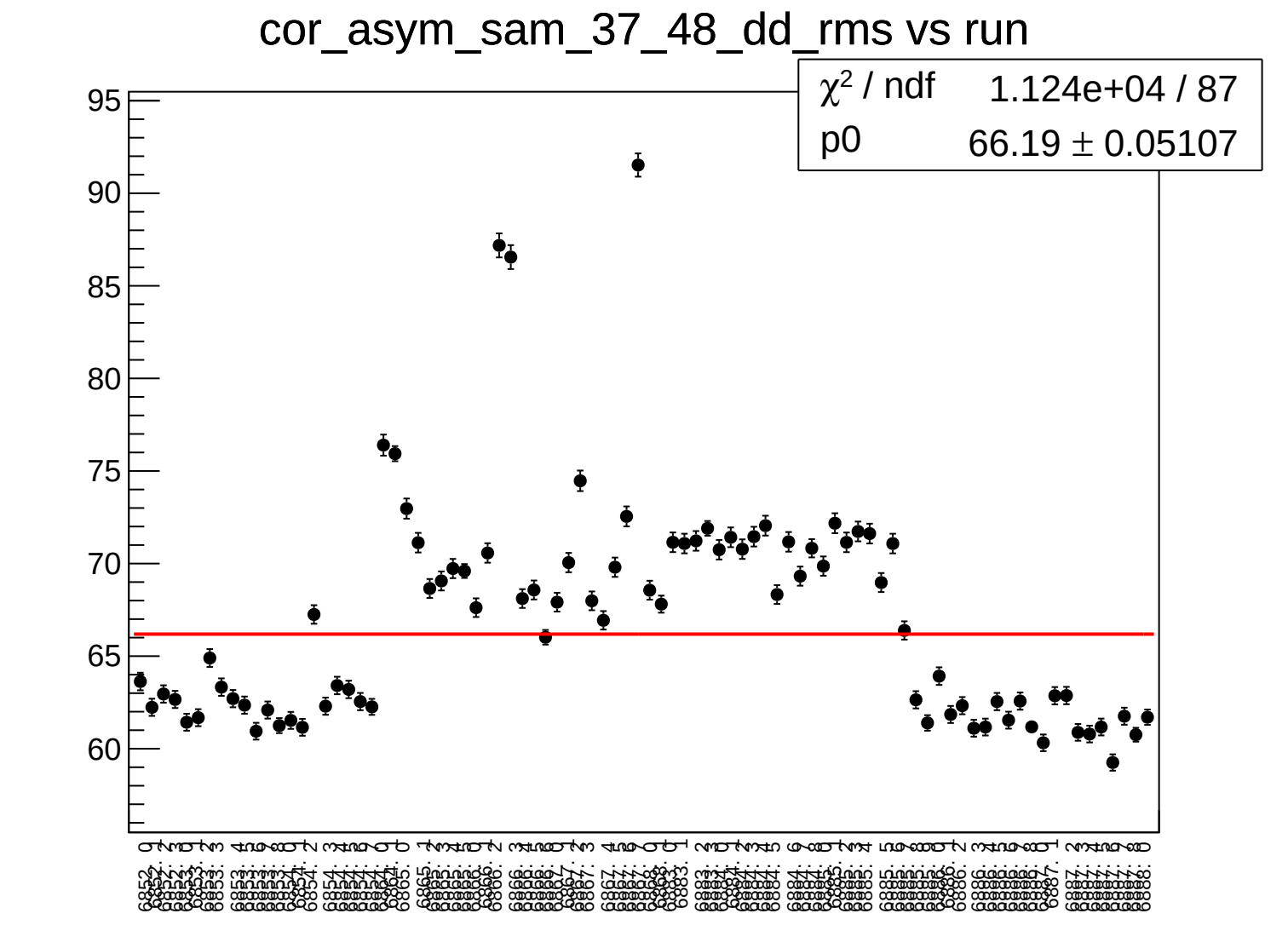

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.124e+04 / 87
p0 66.19 ± 0.05107
95
90
85
80
75
70
65
60

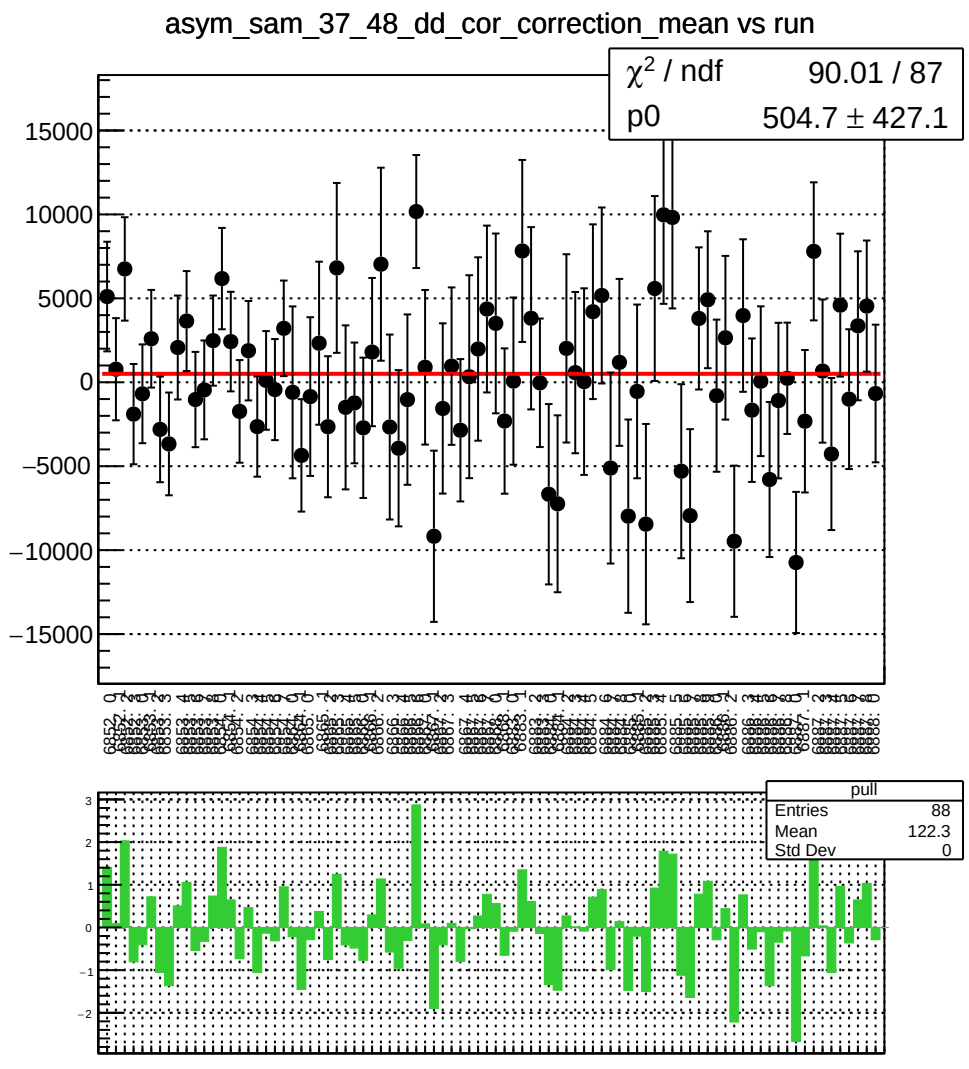

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 90.01 / 87
p0 504.6 ± 427.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 122.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.02896
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

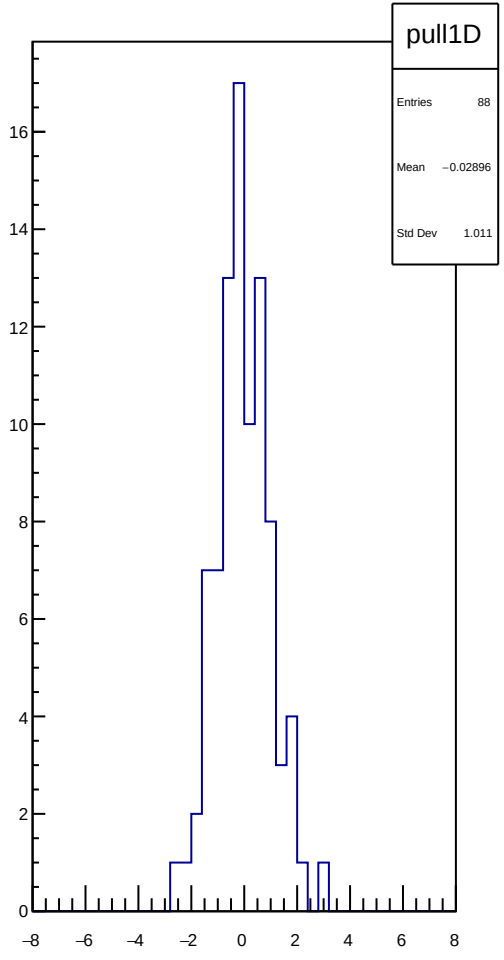

asym_sam_37_48_dd_reg_correction_rms vs run
χ^2 / ndf 9.039e+04 / 87
p0 382.1 ± 0.302
600
550
500
450
400
350
300
250

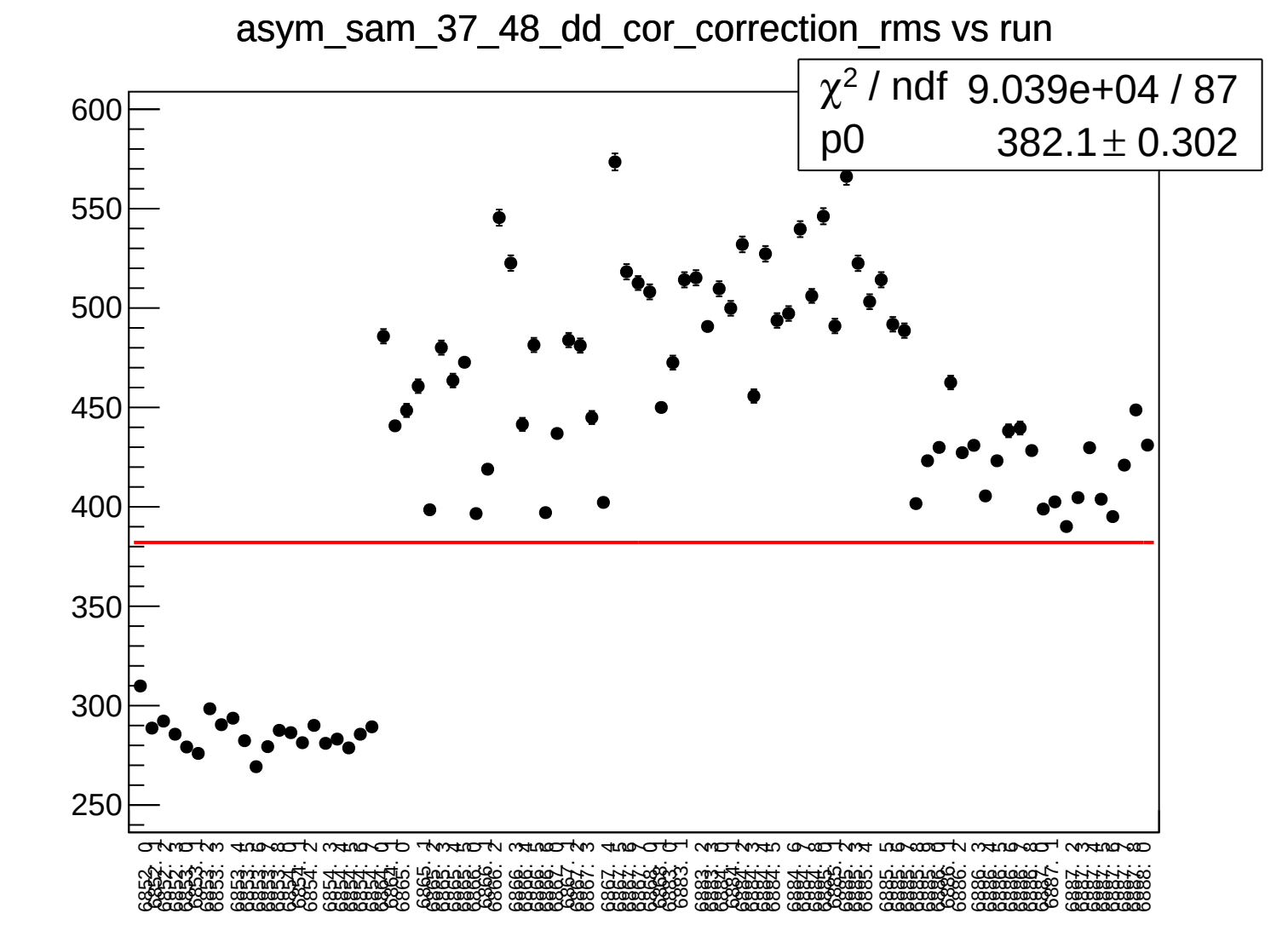

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.48 / 87
p0 −25.67 ± 72.23
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −400.3
Std Dev 0
2
1
0
−1
−2

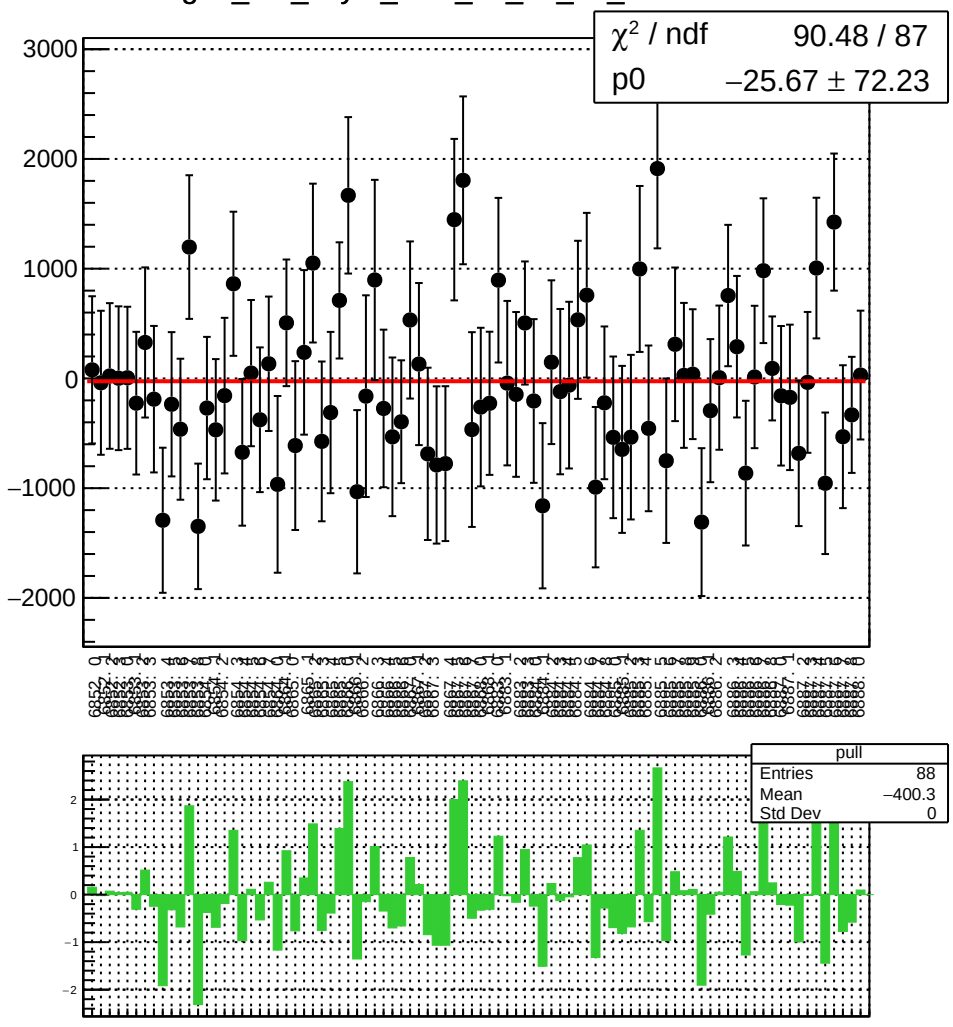

pull1D
Entries 88
Mean −0.003416
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

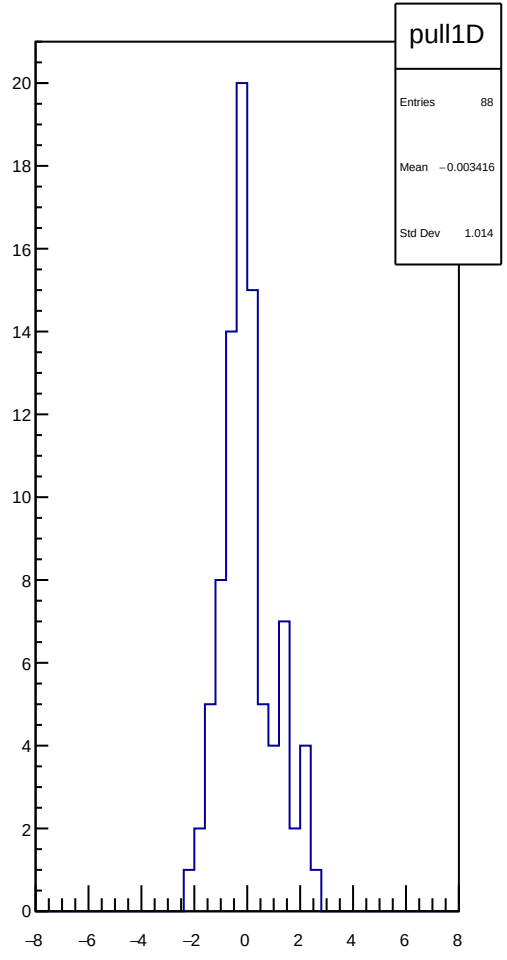

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.124e+04 / 87
p0 66.19 ± 0.05107
95
90
85
80
75
70
65
60

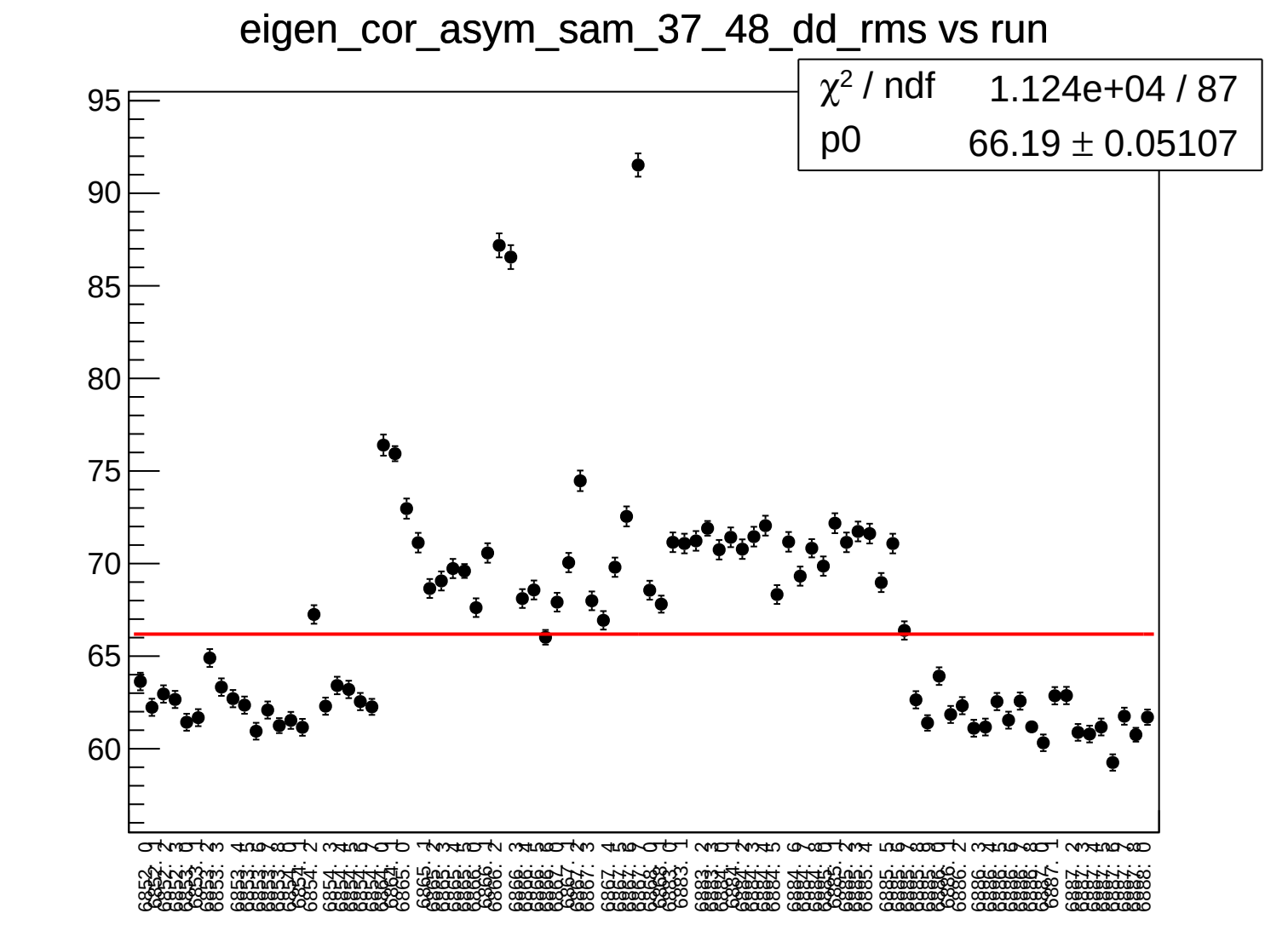

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 90.01 / 87
p0 504.7 ± 427.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 122.3
Std Dev 0
3
2
1
0
−1
−2

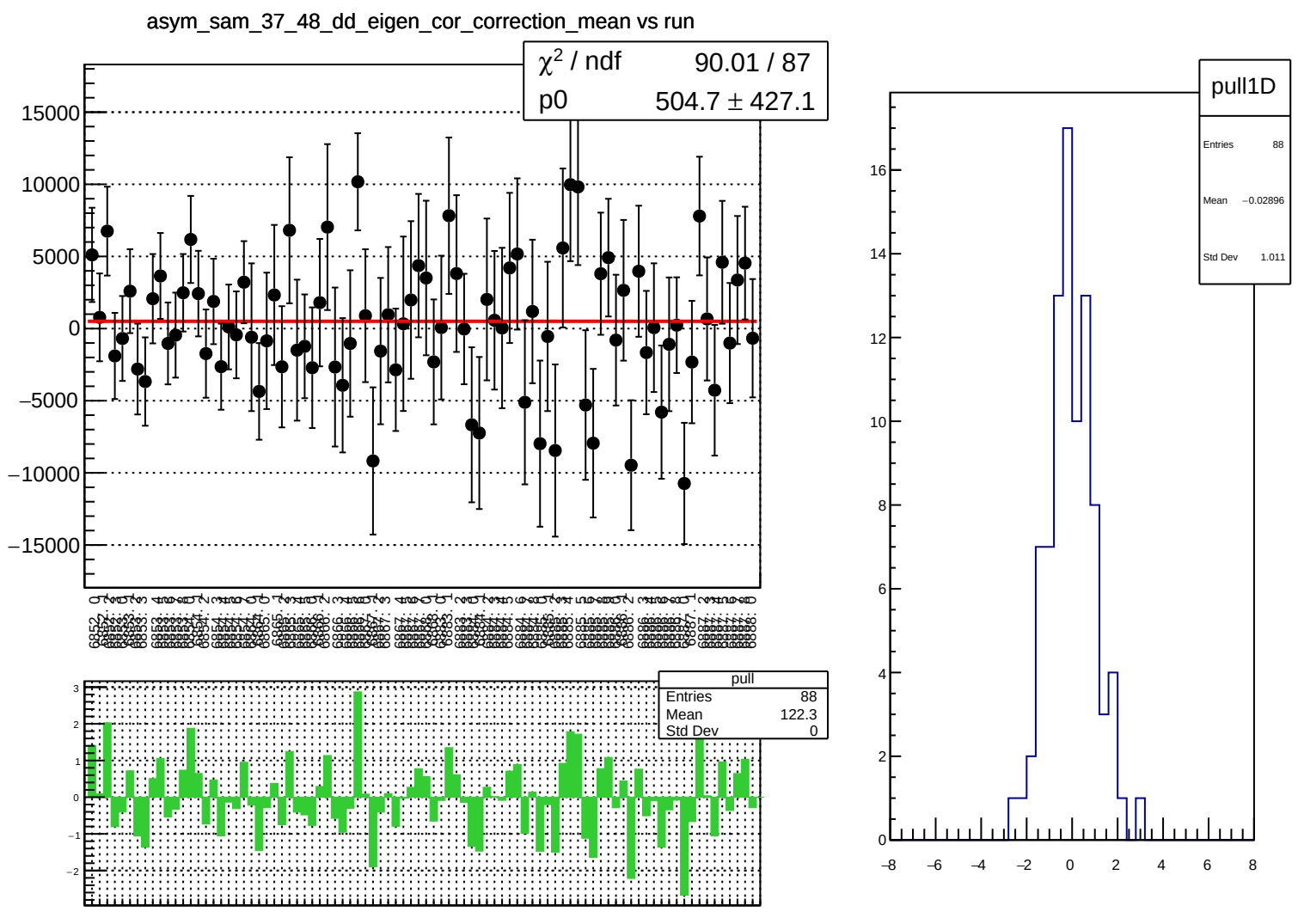

pull1D
Entries 88
Mean −0.02896
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

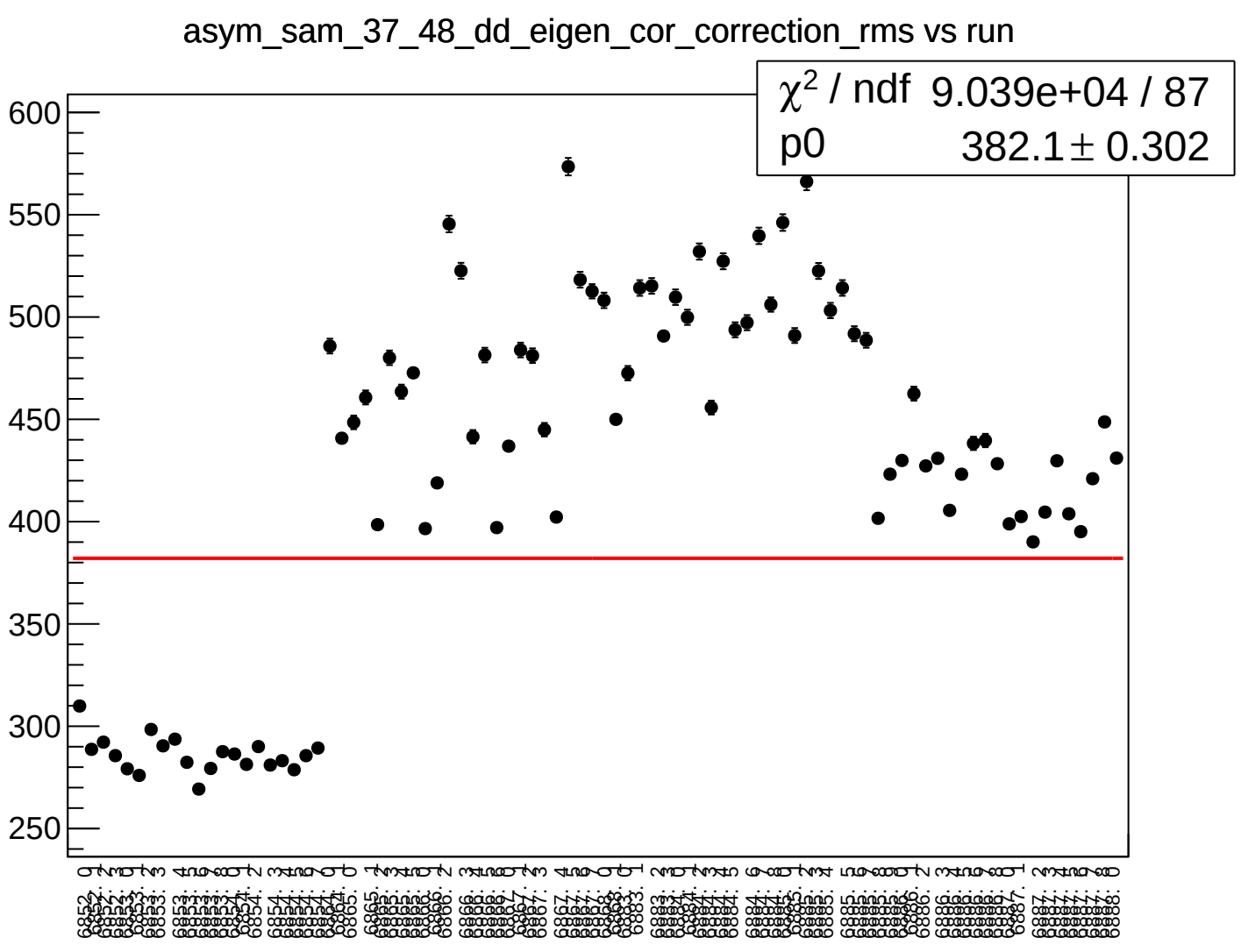

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 9.039e+04 / 87
p0 382.1 ± 0.302
600
550
500
450
400
350
300
250

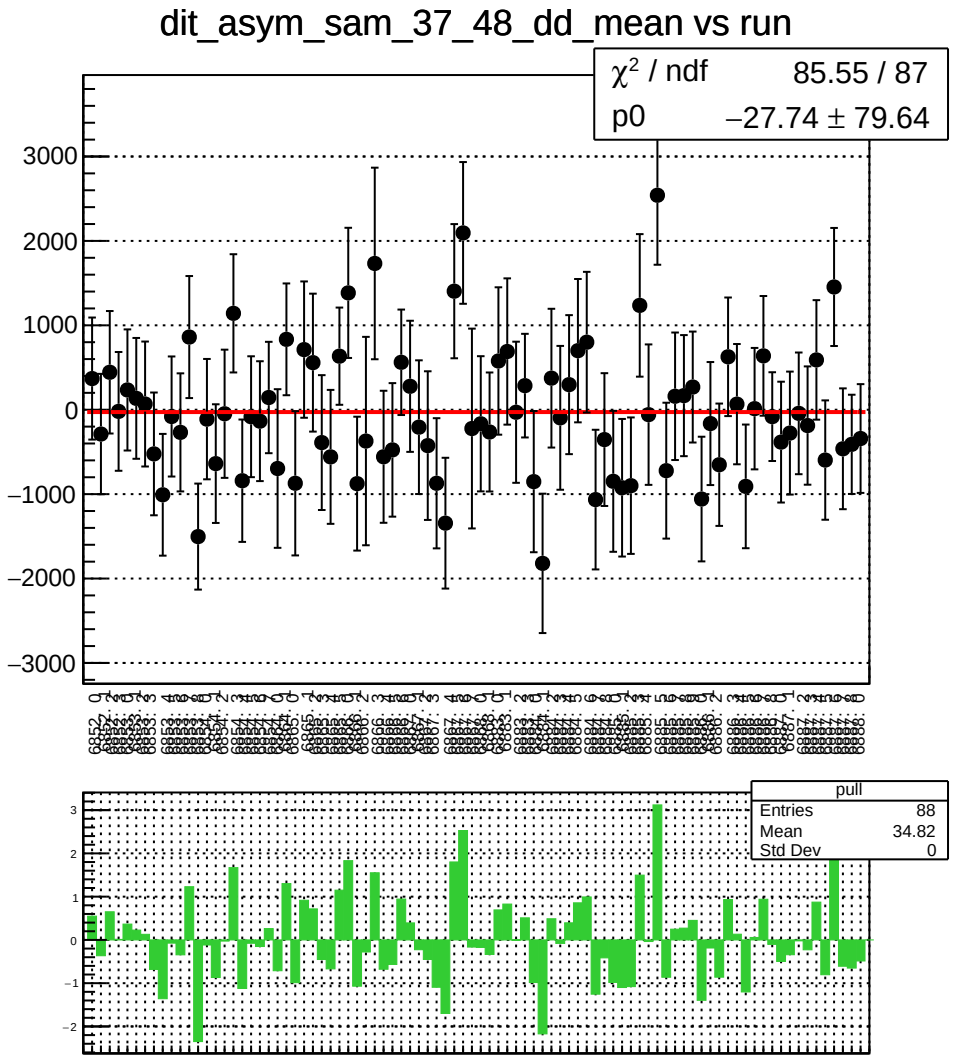

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.48 / 87
p0 −25.67 ± 72.23
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −400.3
Std Dev 0
2
1
0
−1
−2

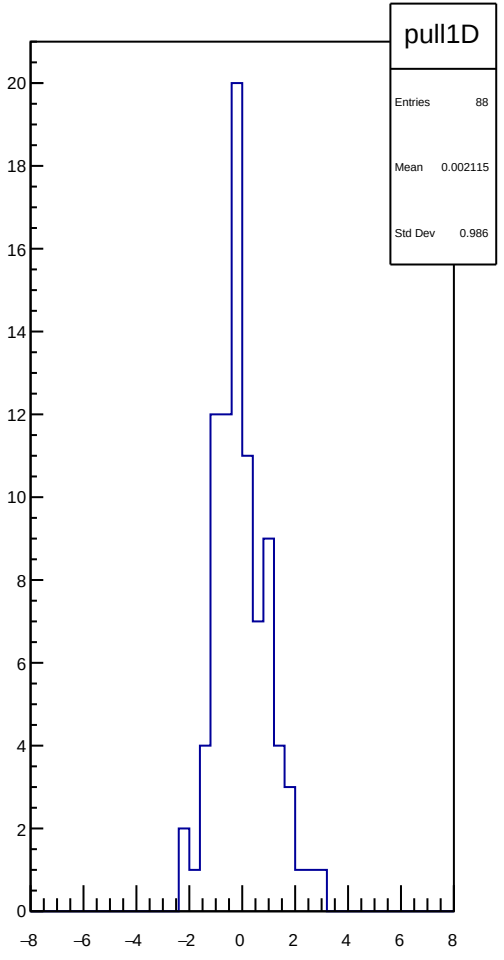

pull1D
Entries 88
Mean −0.003416
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

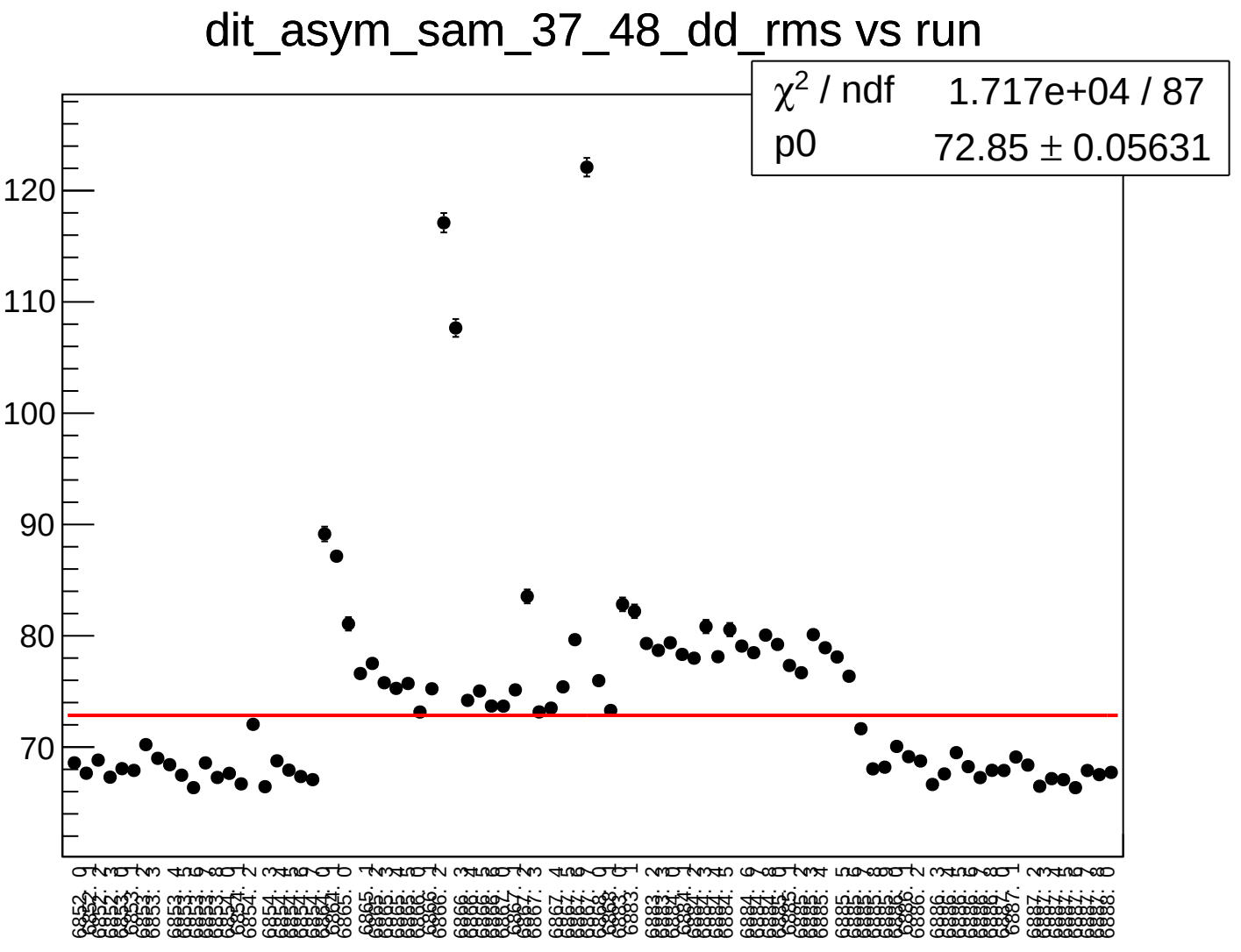

eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.124e+04 / 87
p0 66.19 ± 0.05107
95
90
85
80
75
70
65
60

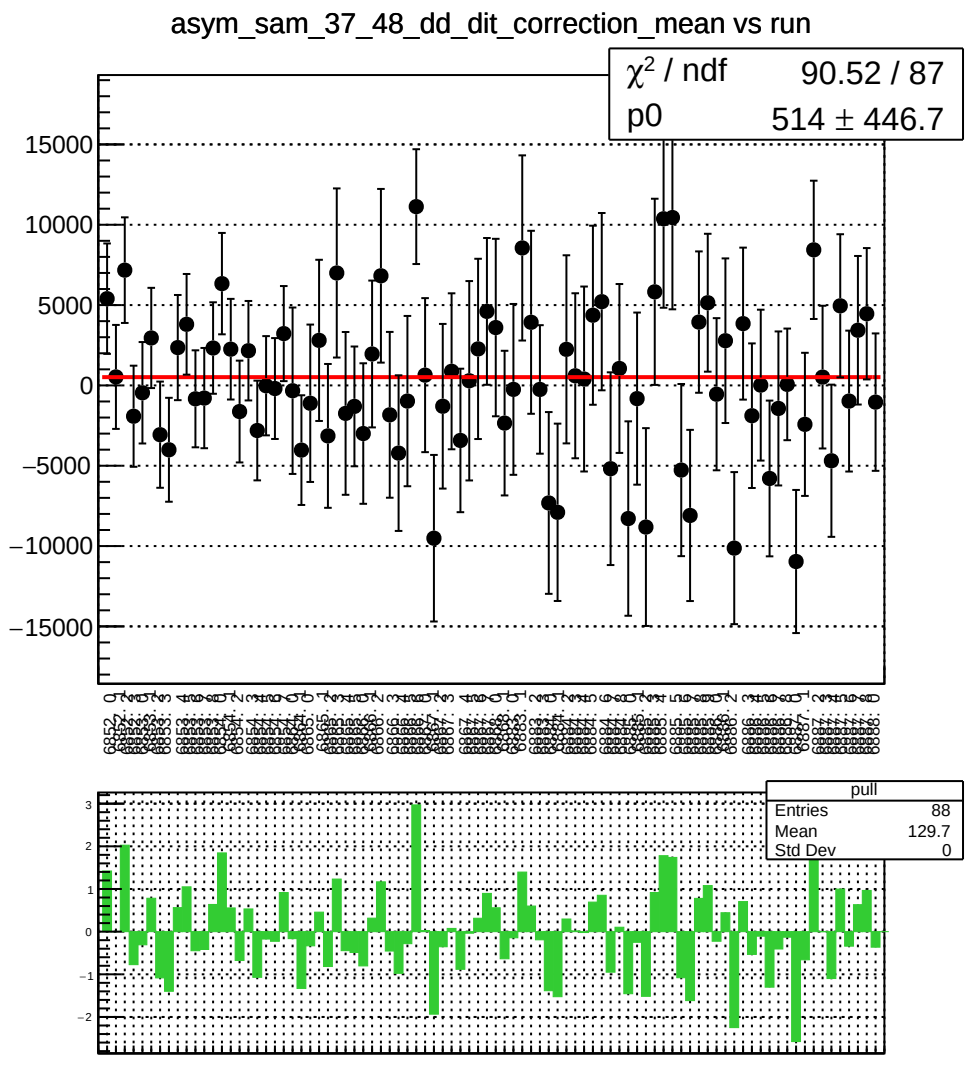

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.01 / 87
p0 504.7 ± 427.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 122.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.02896
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

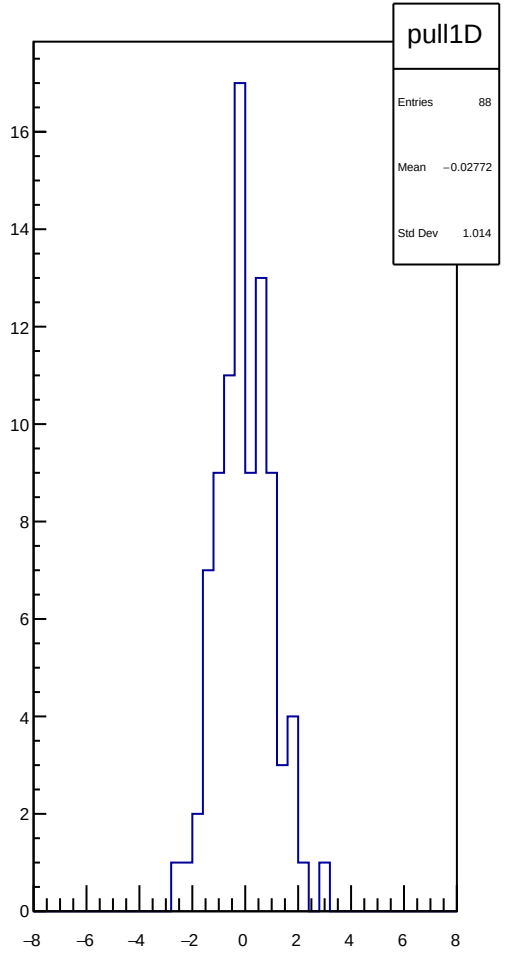

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 9.039e+04 / 87
p0 382.1 ± 0.302
600
550
500
450
400
350
300
250

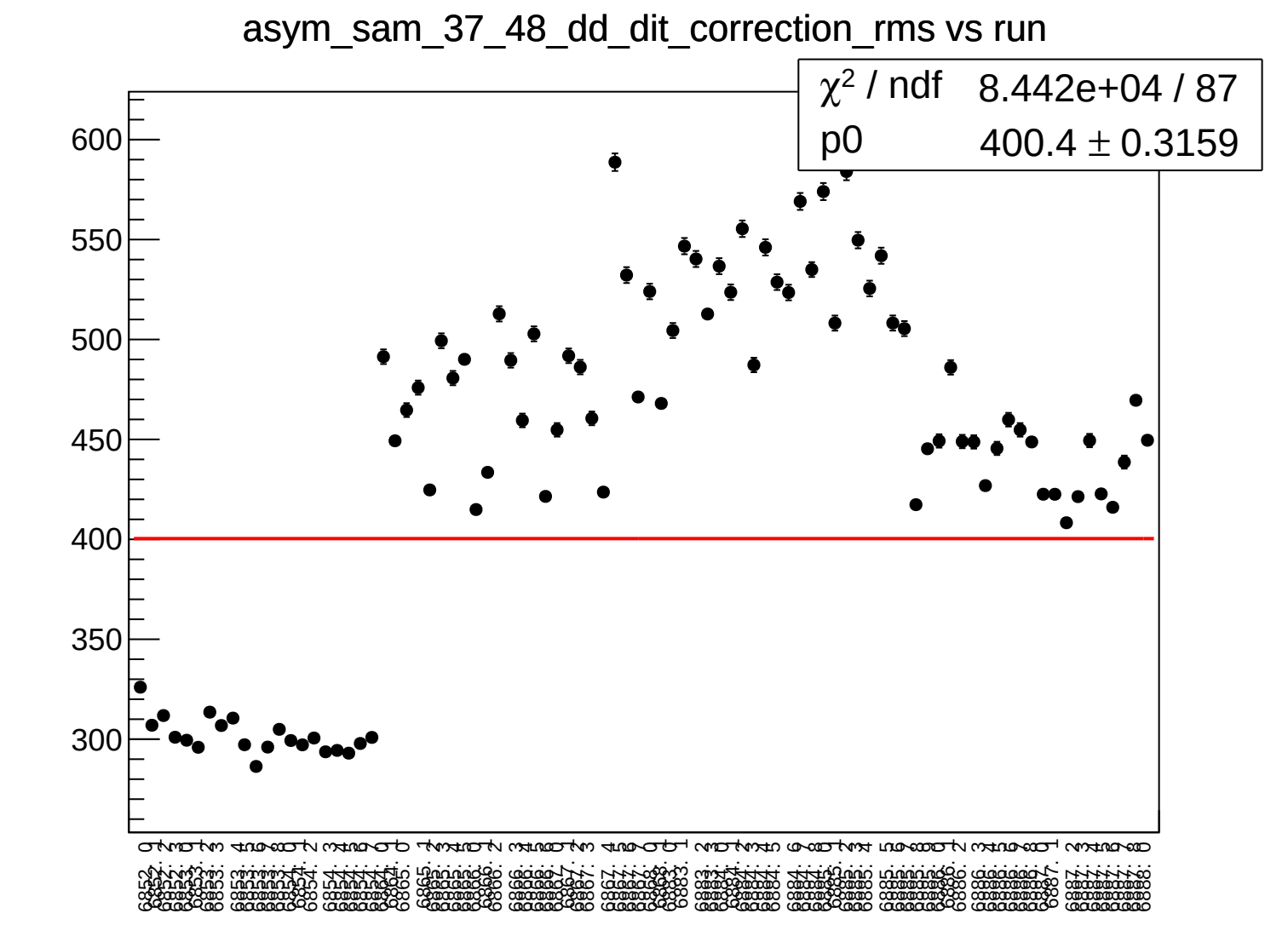

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 85.55 / 87
p0 −27.74 ± 79.64
pull
Entries 88
Mean 34.82
Std Dev 0

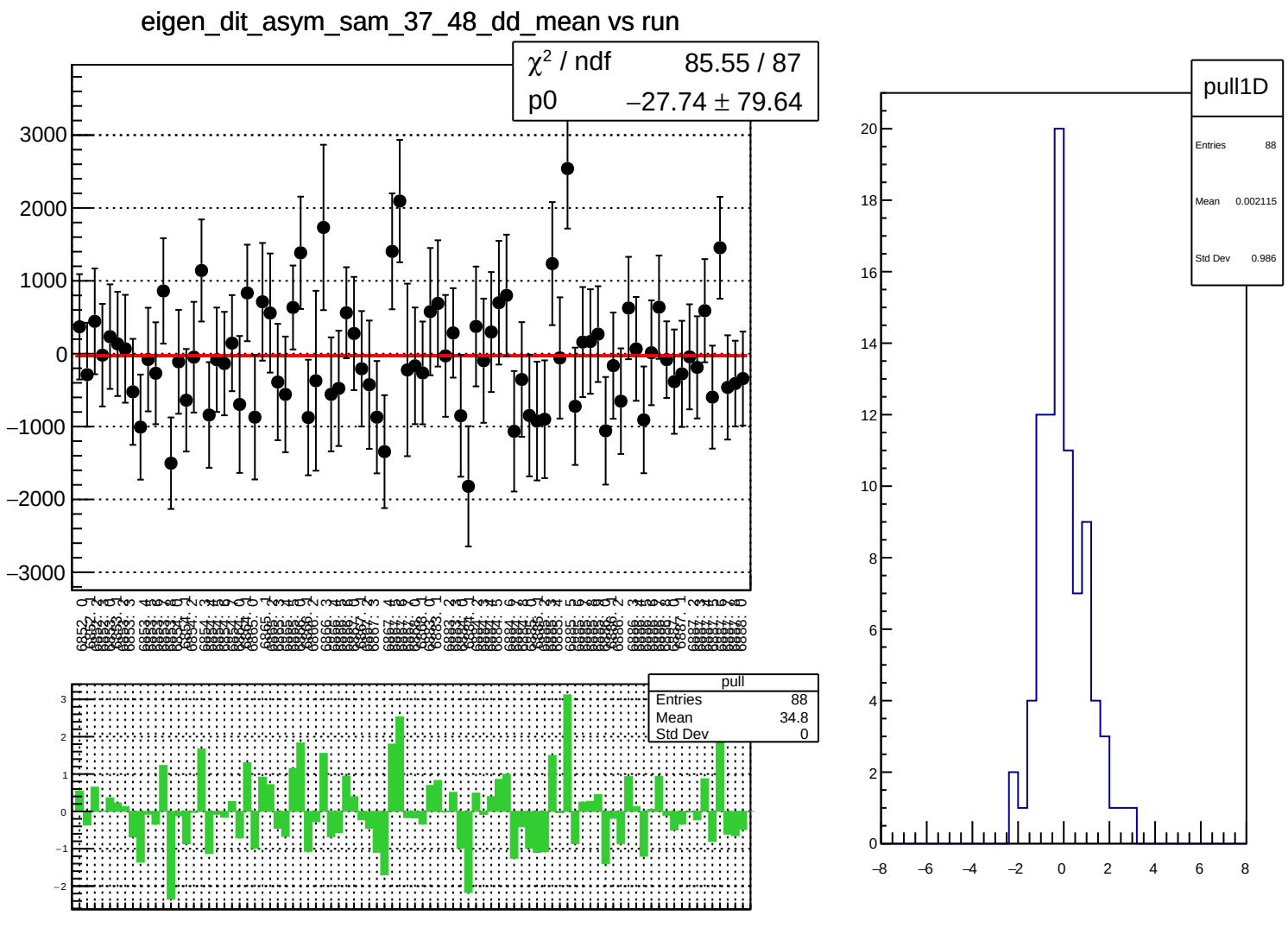

pull1D
Entries 88
Mean 0.002115
Std Dev 0.986

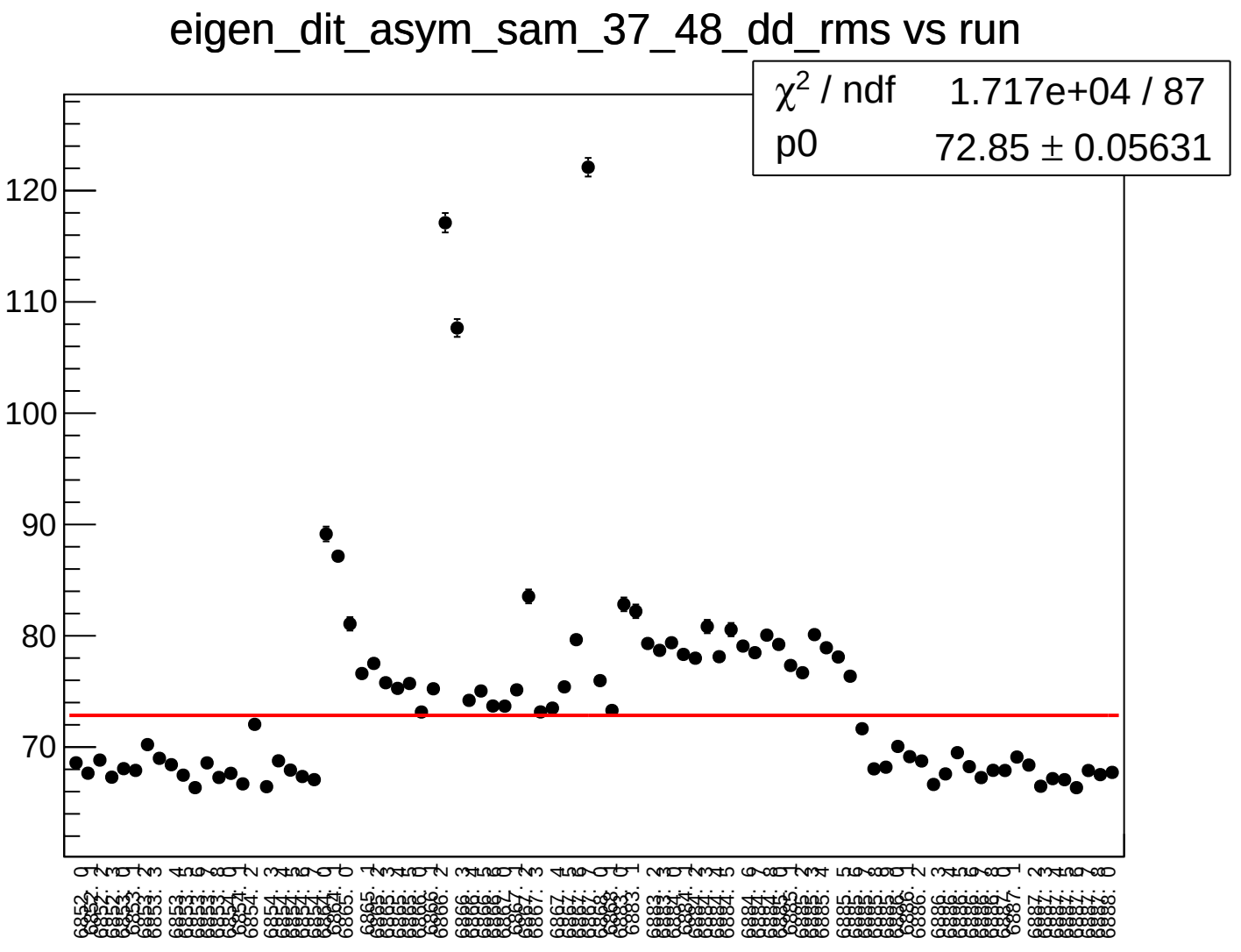

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.717e+04 / 87
p0 72.85 ± 0.05631
120
110
100
90
80
70

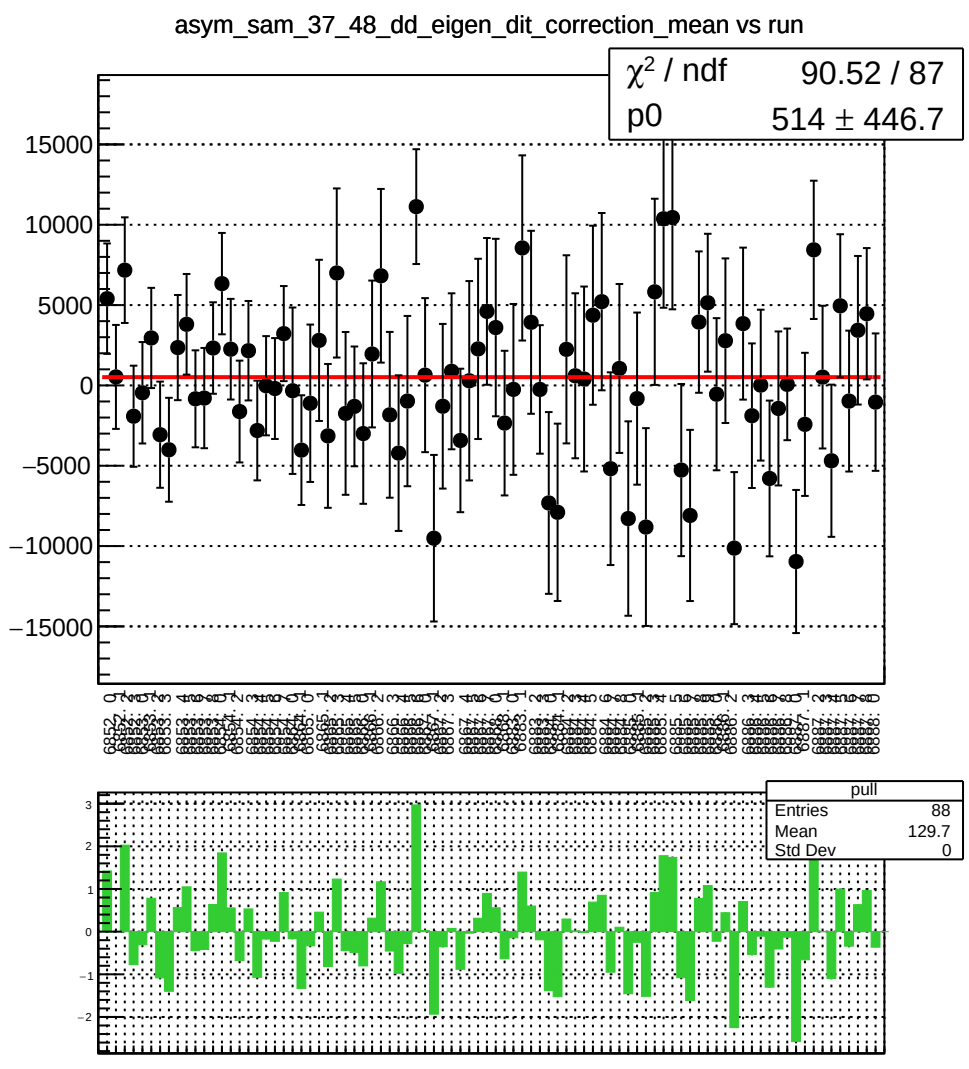

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 90.52 / 87
p0 514 ± 446.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 129.7
Std Dev 0
3
2
1
0
−1
−2

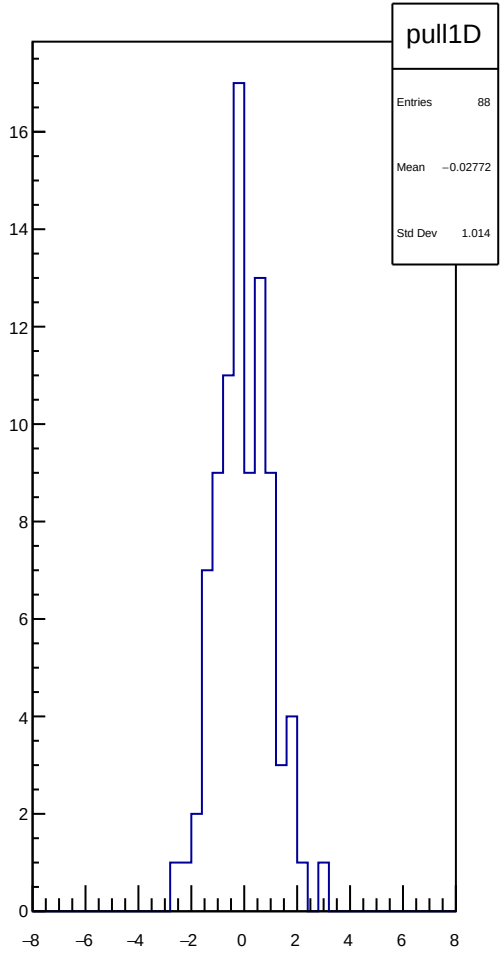

pull1D
Entries 88
Mean −0.02772
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

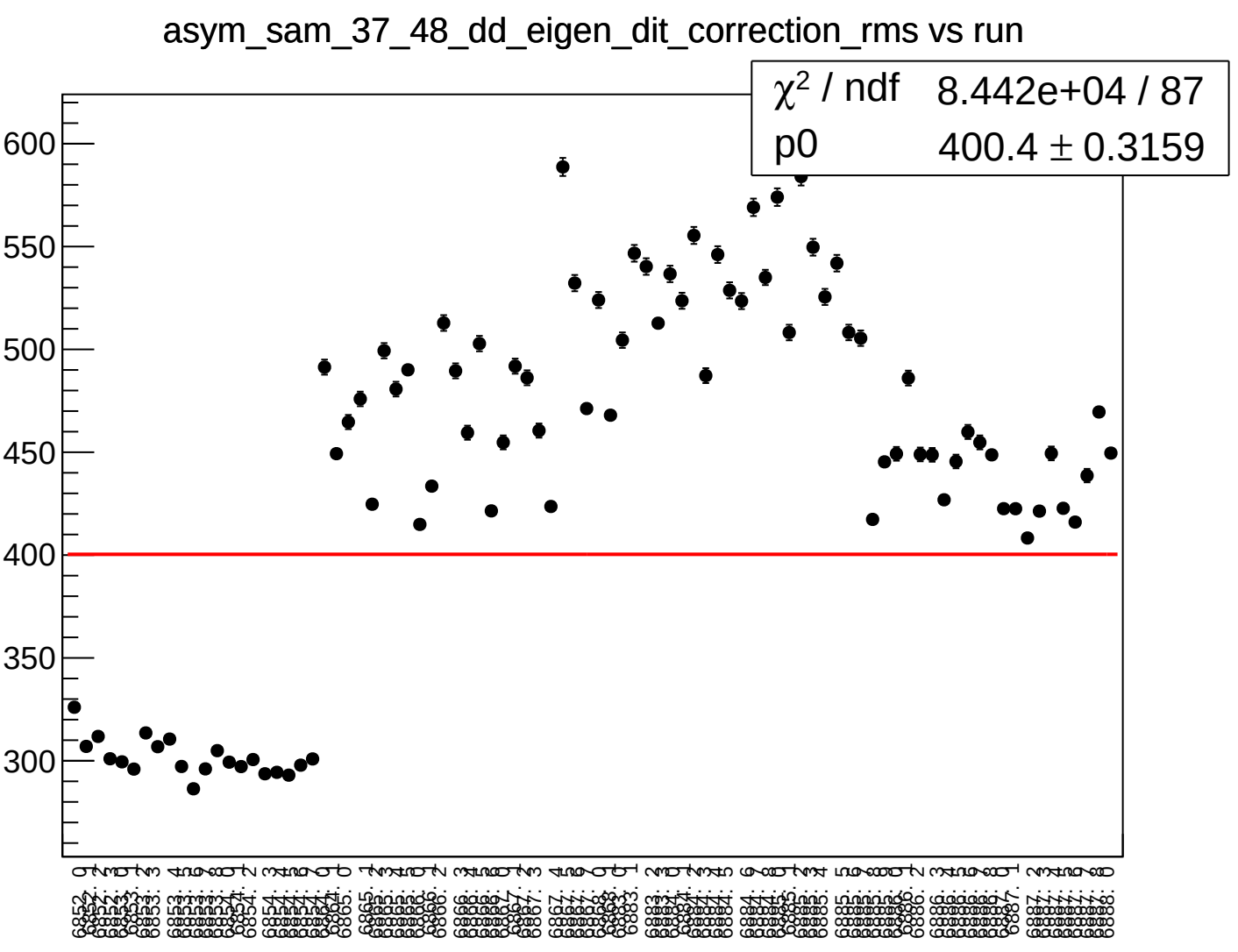

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 8.442e+04 / 87
p0 400.4 ± 0.3159
600
550
500
450
400
350
300

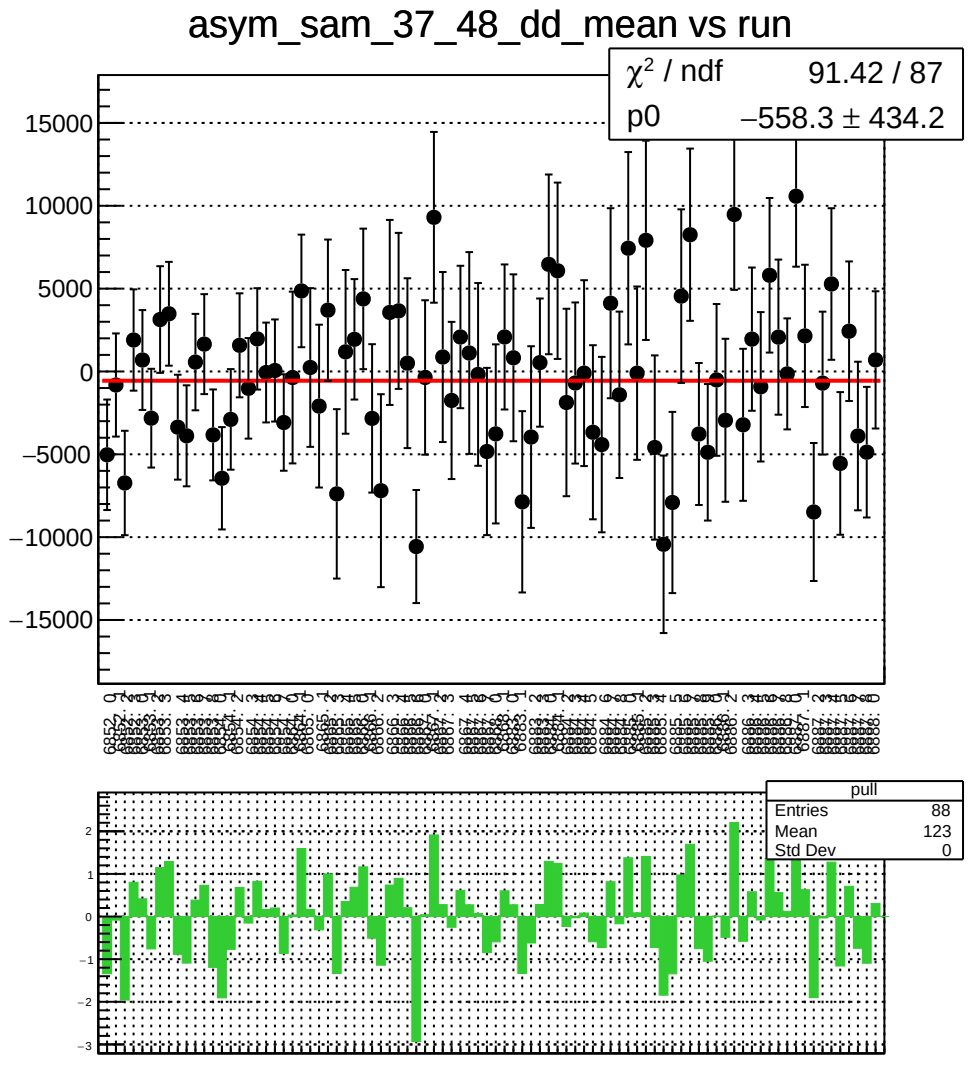

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 85.55 / 87
p0 −27.74 ± 79.64
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 34.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.002115
Std Dev 0.986
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

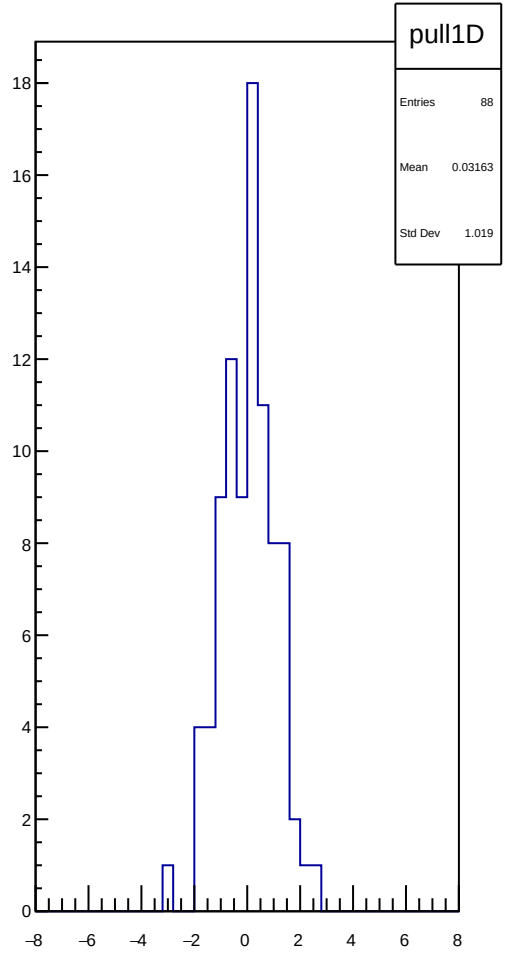

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.717e+04 / 87
p0 72.85 ± 0.05631
120
110
100
90
80
70


asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.52 / 87
p0 514 ± 446.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 129.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 88
Mean −0.02772
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 8.442e+04 / 87
p0 400.4 ± 0.3159
600
550
500
450
400
350
300


asym_sam_37_48_dd_mean vs run
χ² / ndf 91.42 / 87
p0 −558.3 ± 434.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 123
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean 0.03163
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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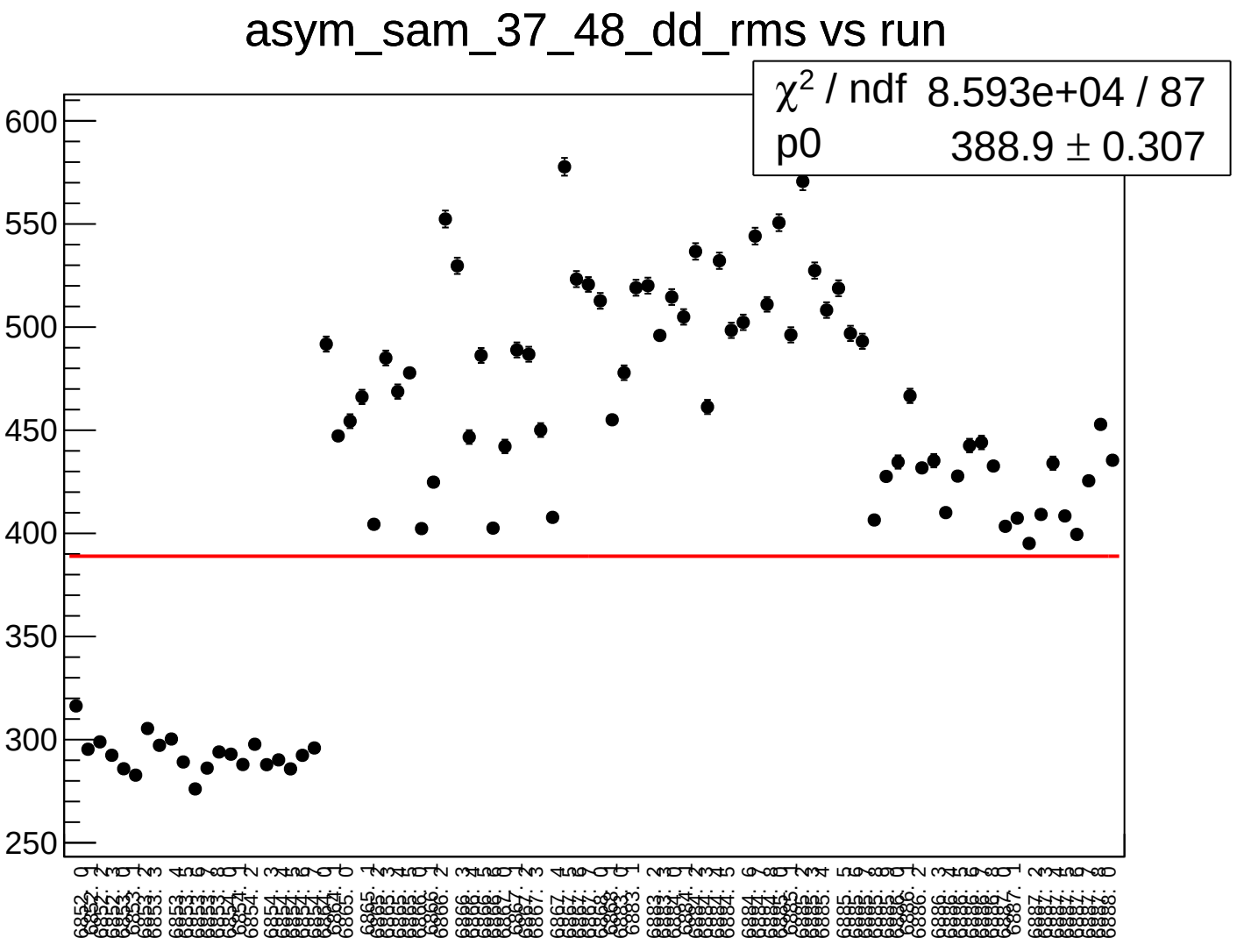
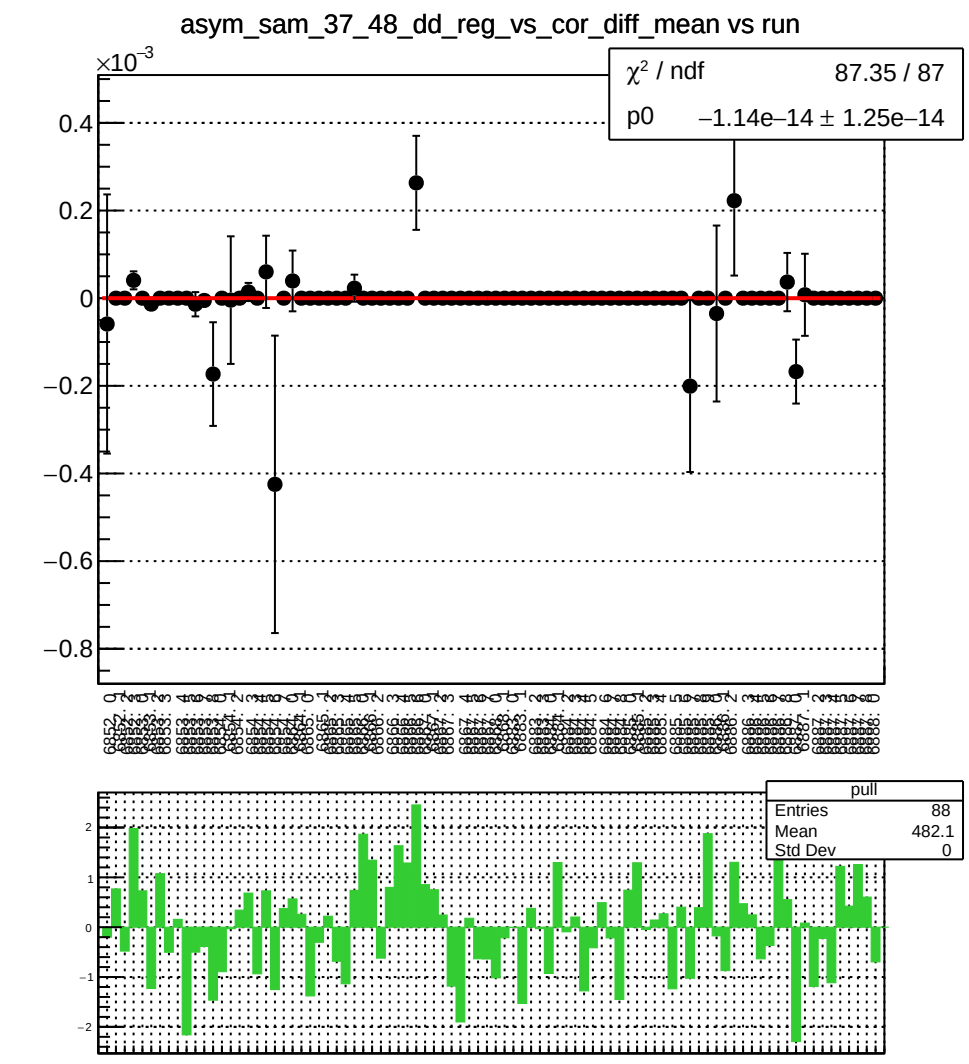
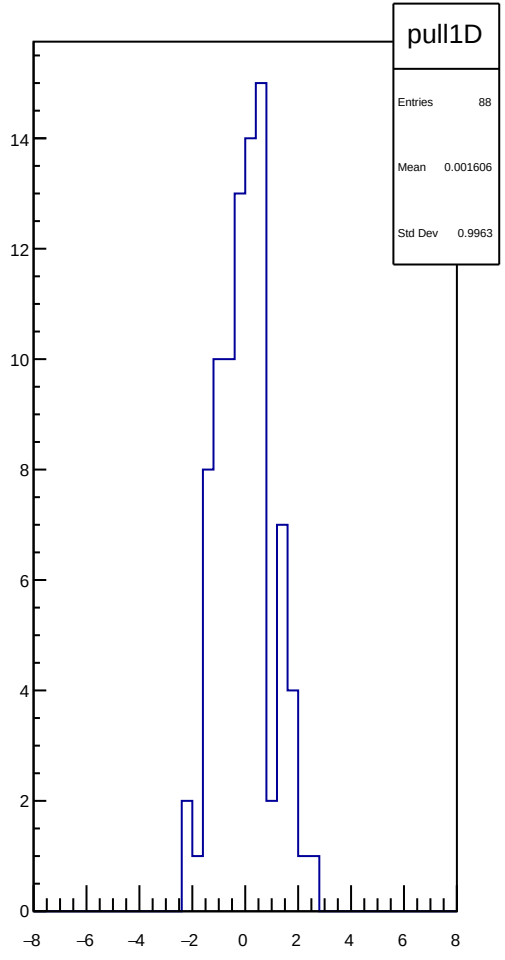
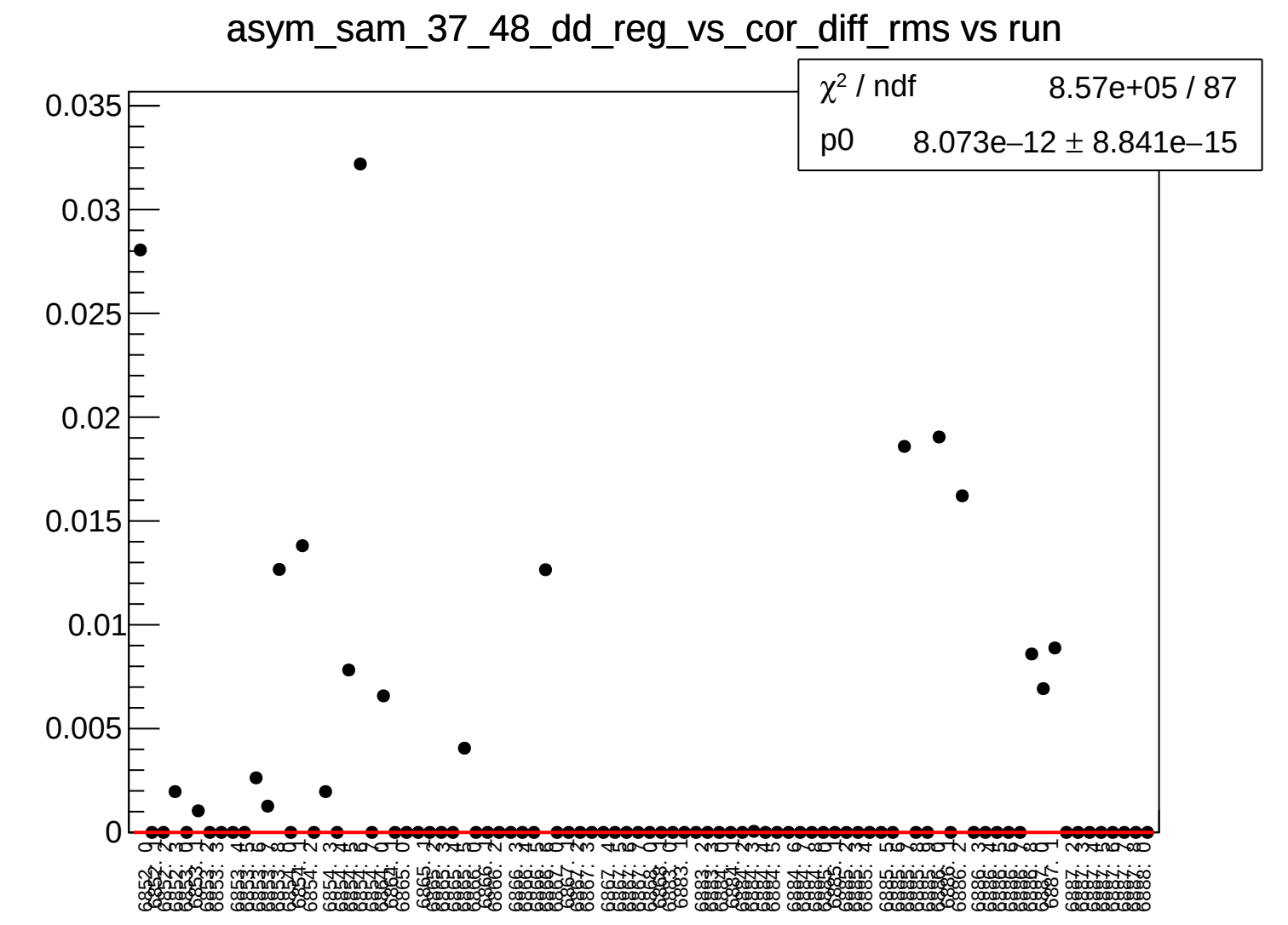
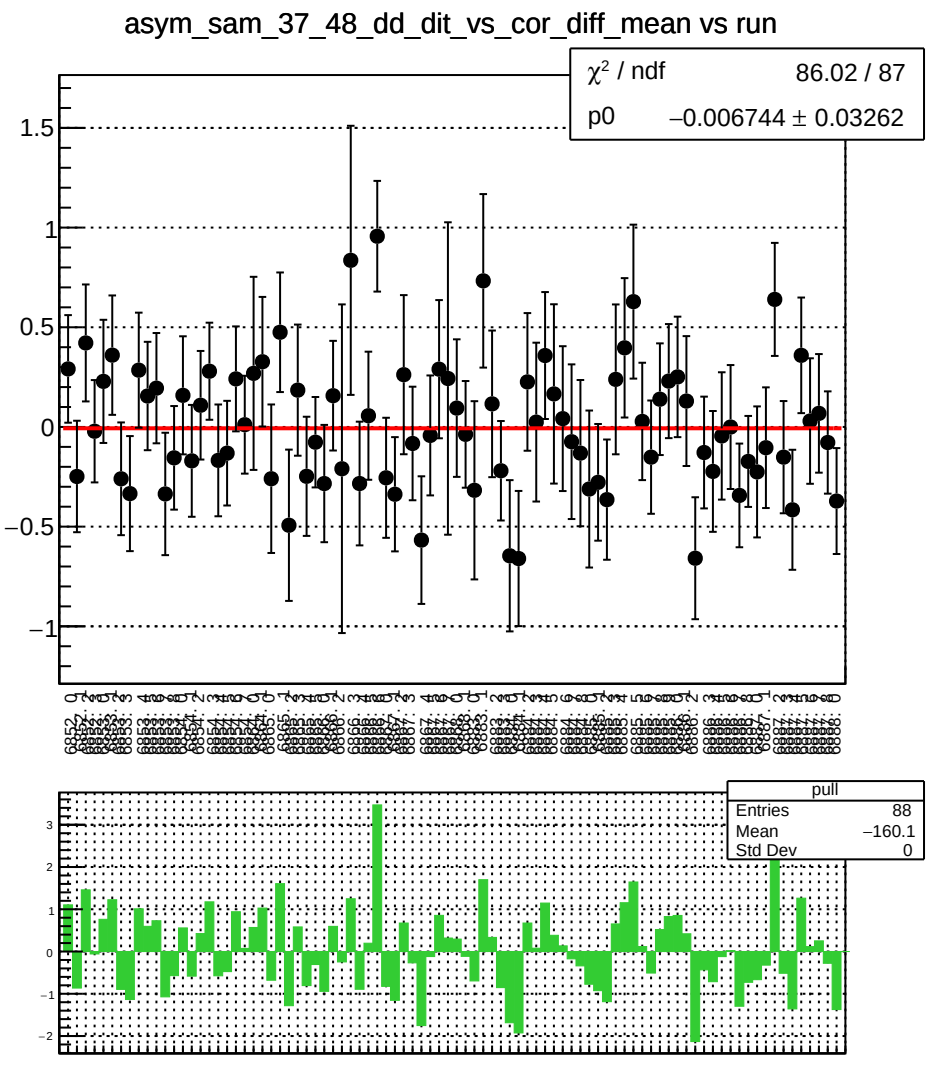
0
2
4
6
8

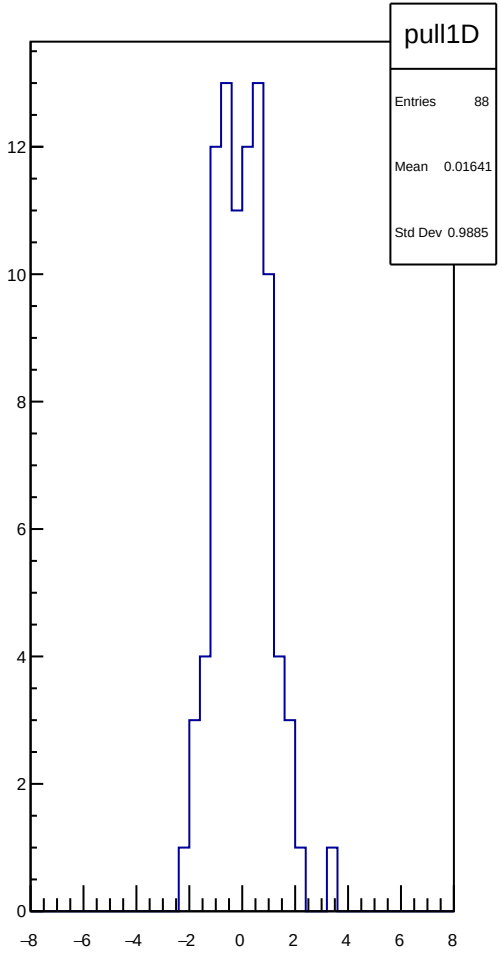

asym_sam_37_48_dd_rms vs run
χ^2 / ndf 8.593e+04 / 87
p0 388.9 ± 0.307
600
550
500
450
400
350
300
250

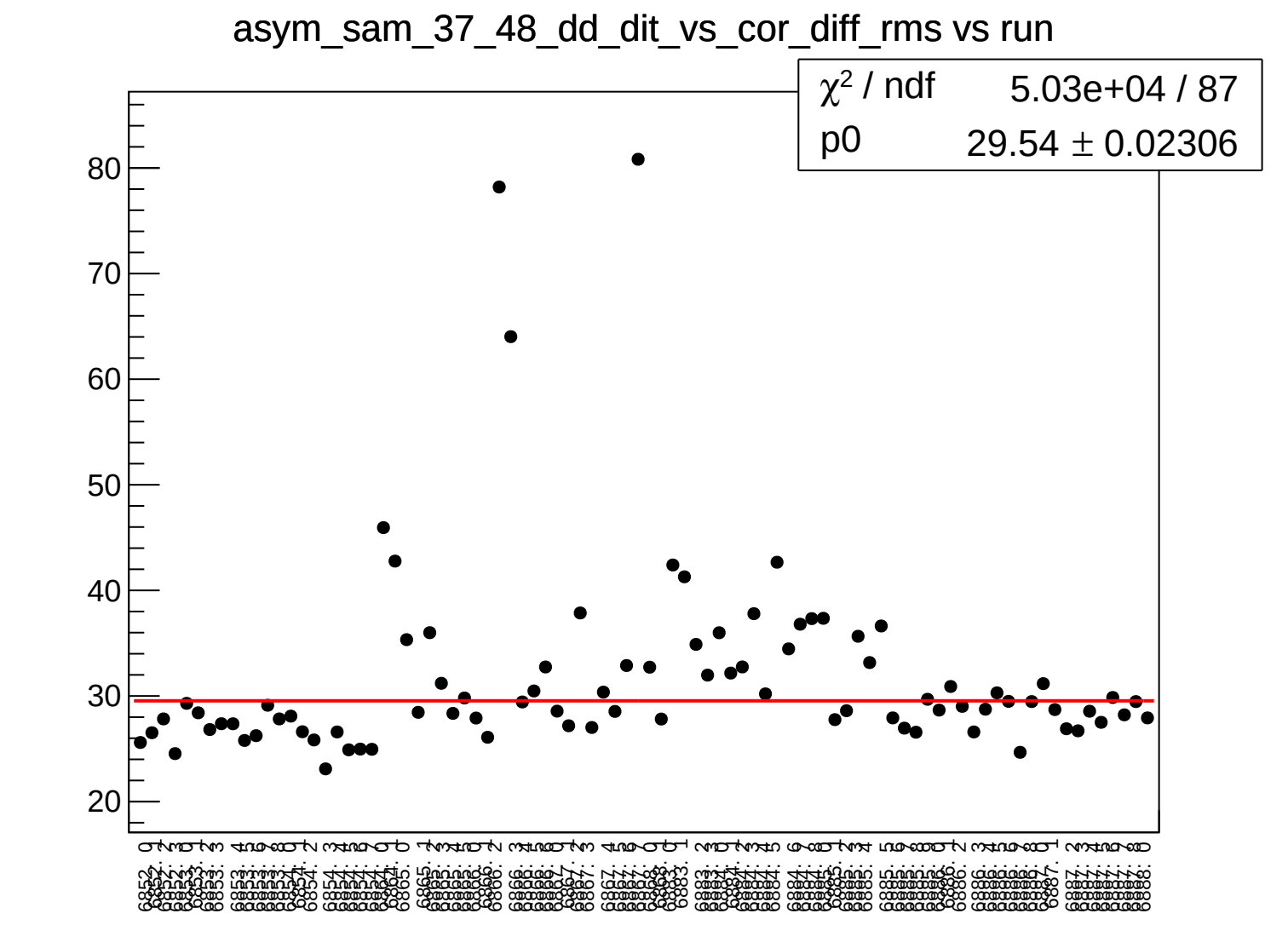

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 87.35 / 87
p0 −1.14e−14 ± 1.25e−14
pull
Entries 88
Mean 482.1
Std Dev 0

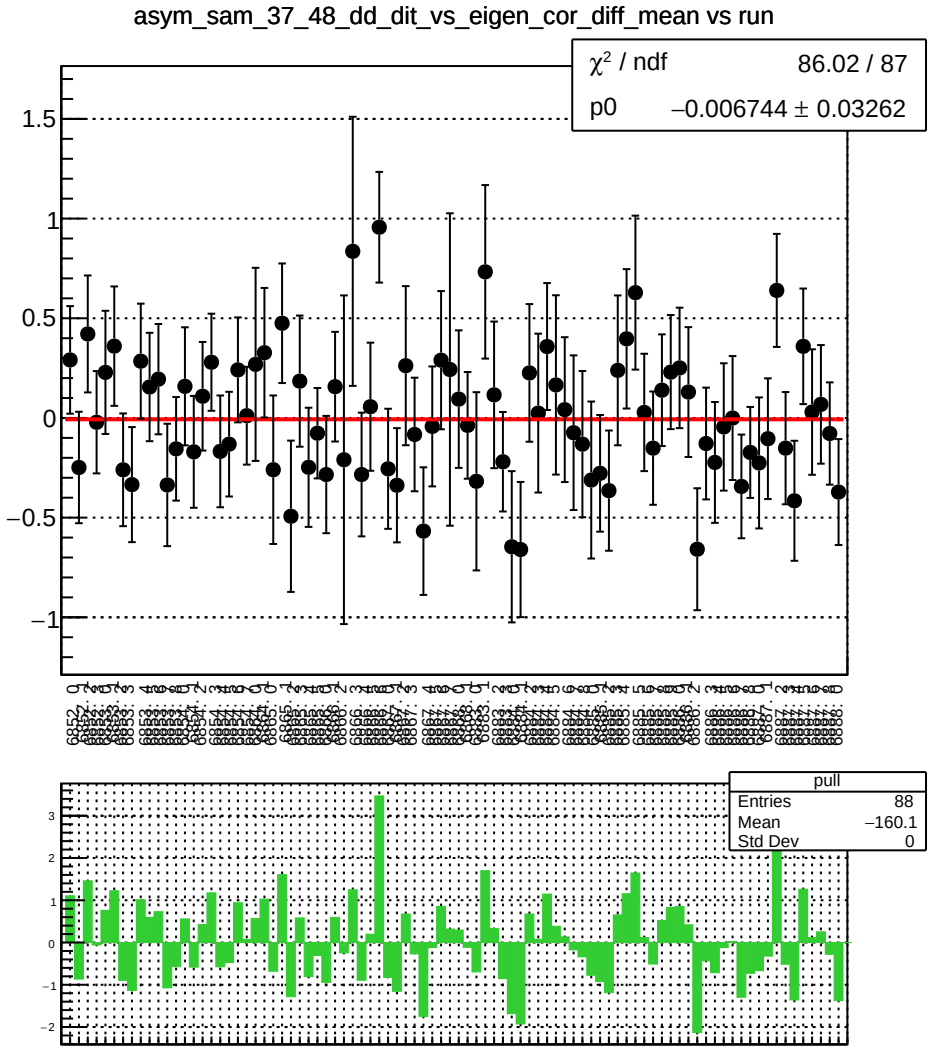

pull1D
Entries 88
Mean 0.001606
Std Dev 0.9963

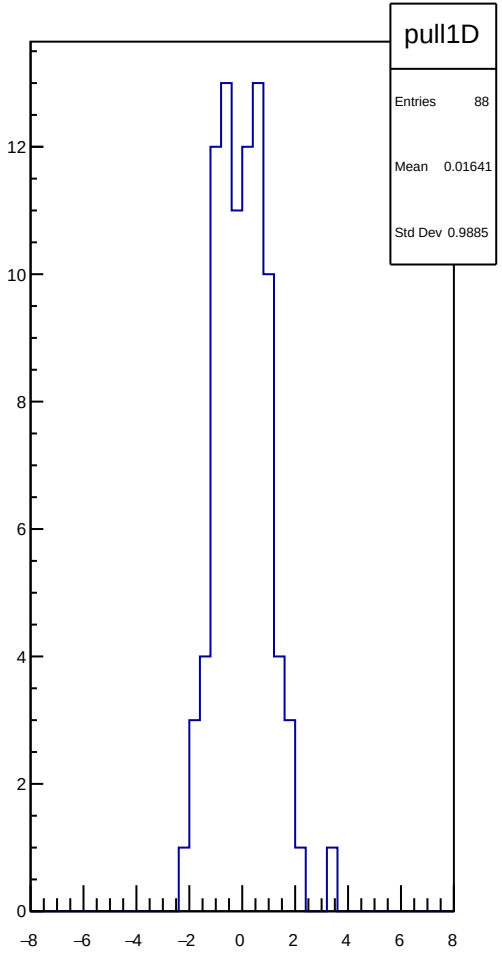

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.57e+05 / 87
p0 8.073e−12 ± 8.841e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

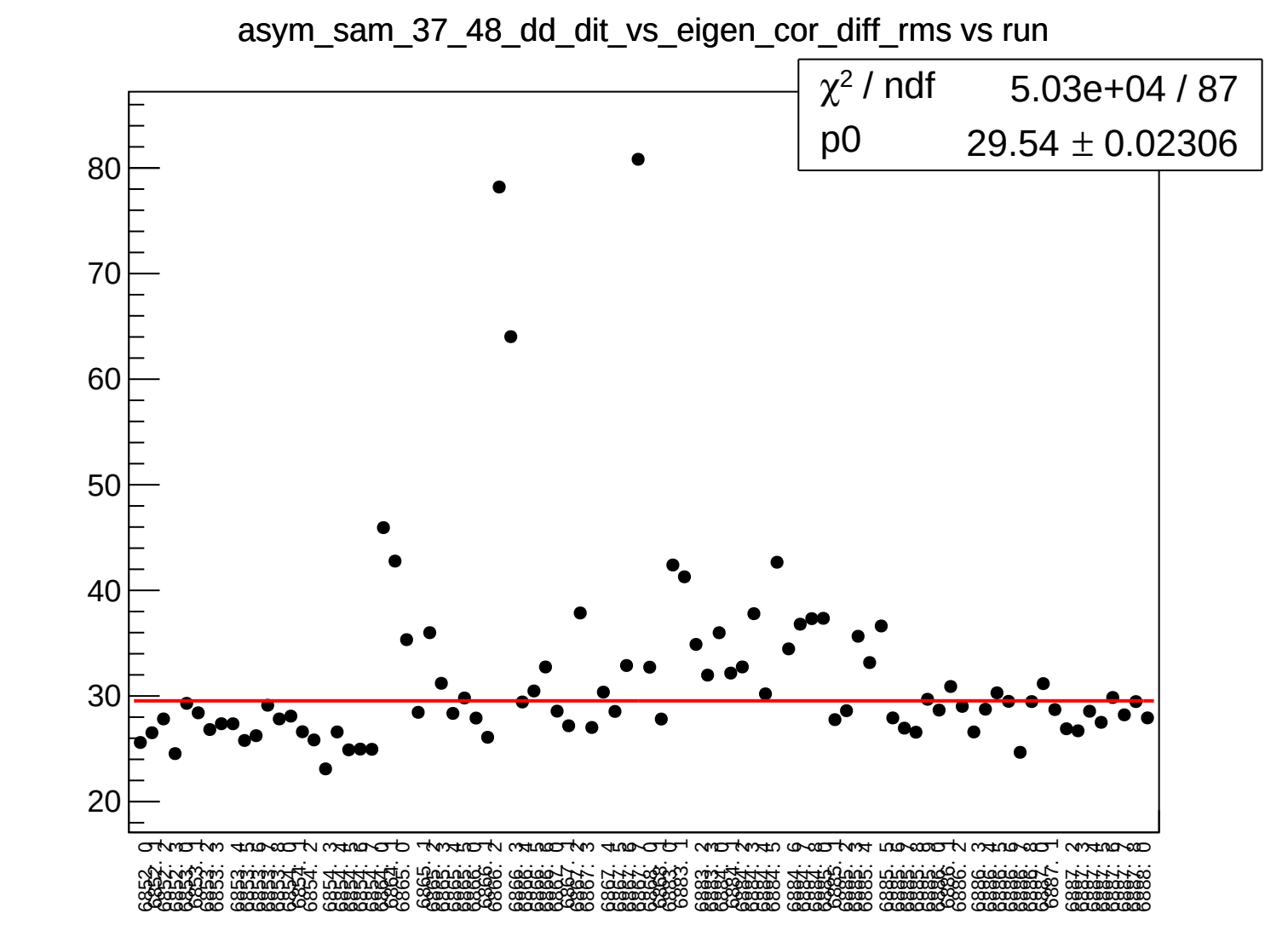

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.02 / 87
p0 −0.006744 ± 0.03262
pull
Entries 88
Mean −160.1
Std Dev 0

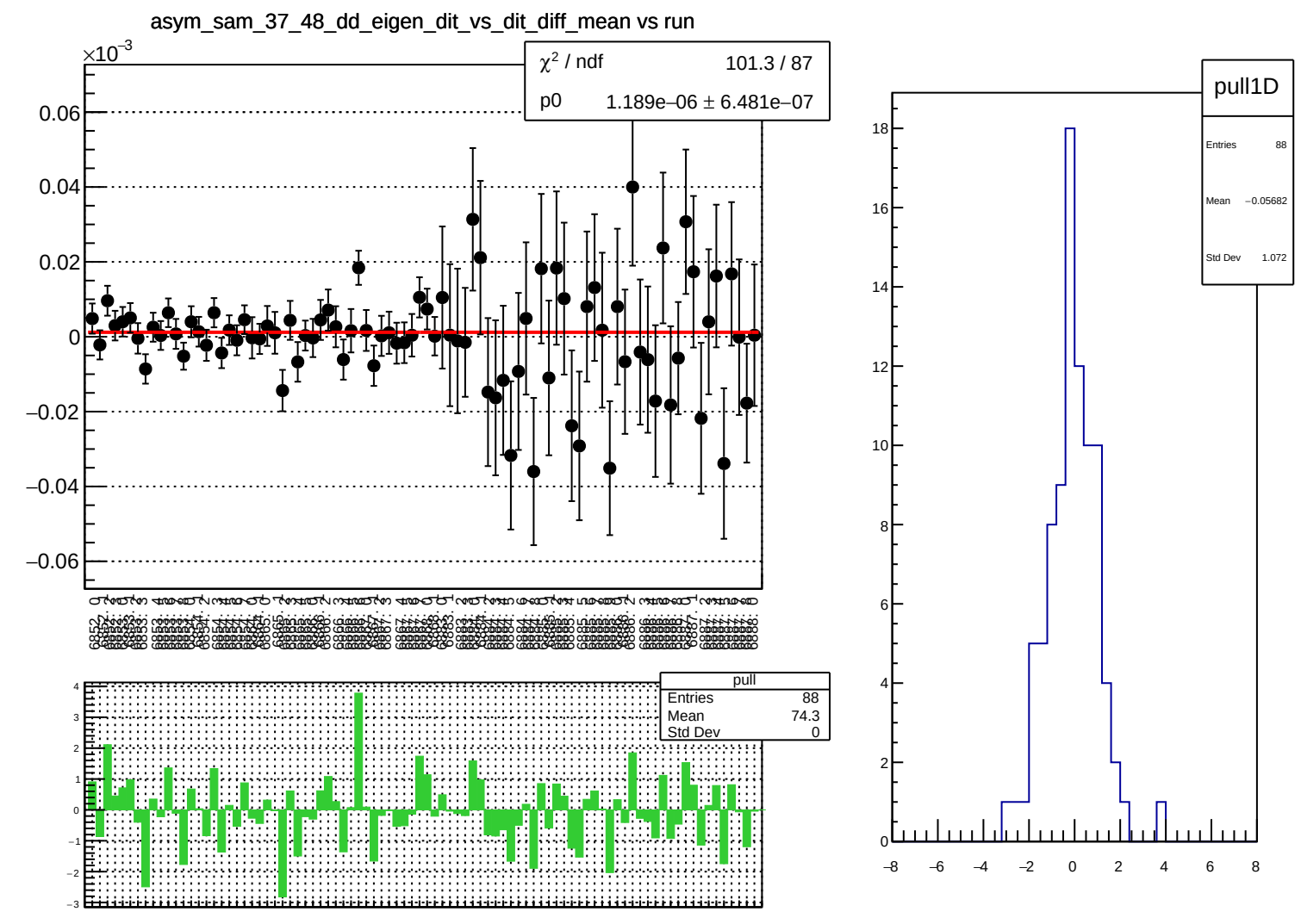

pull1D
Entries 88
Mean 0.01641
Std Dev 0.9885

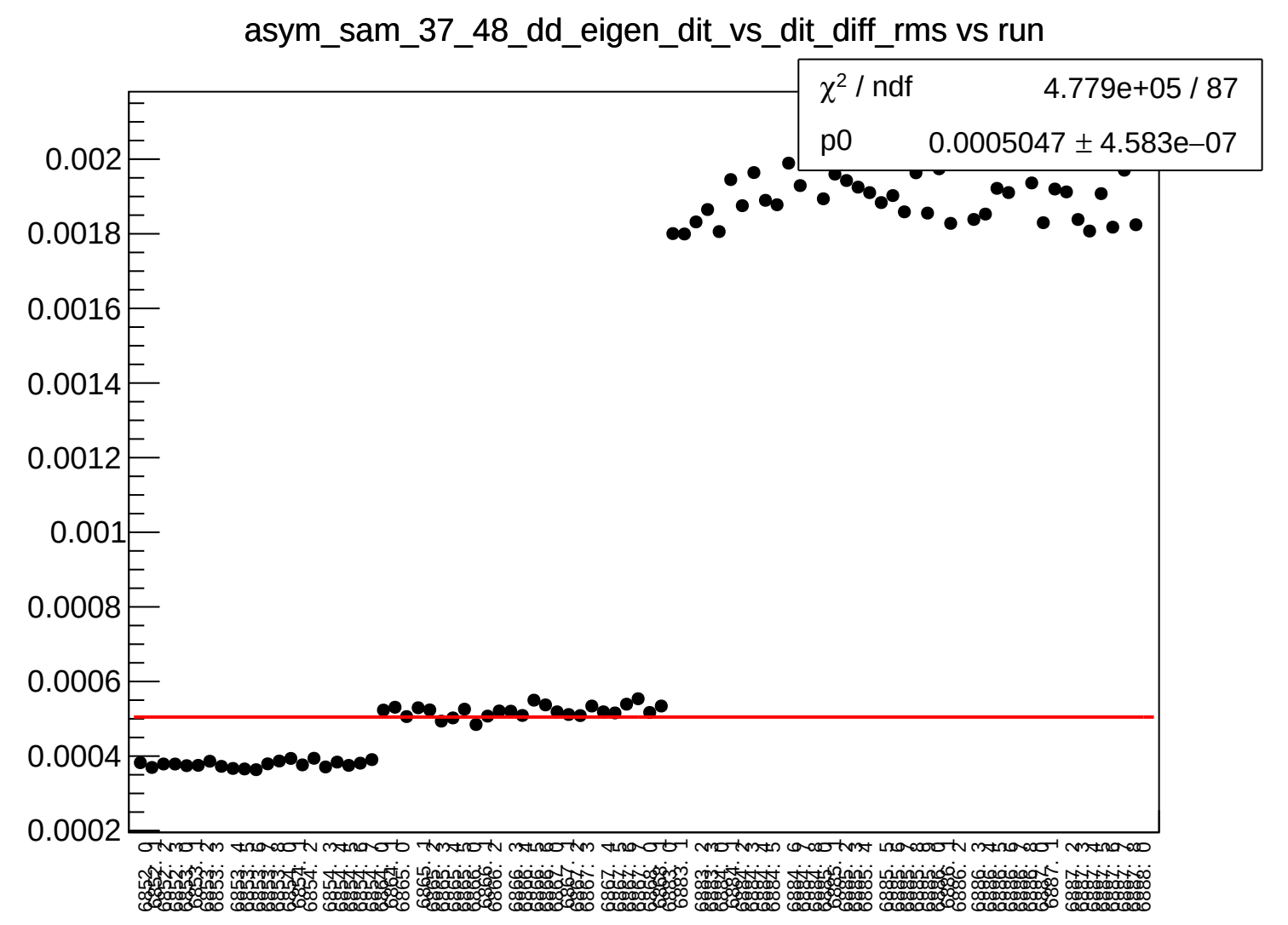

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.03e+04 / 87
p0 29.54 ± 0.02306
80
70
60
50
40
30
20

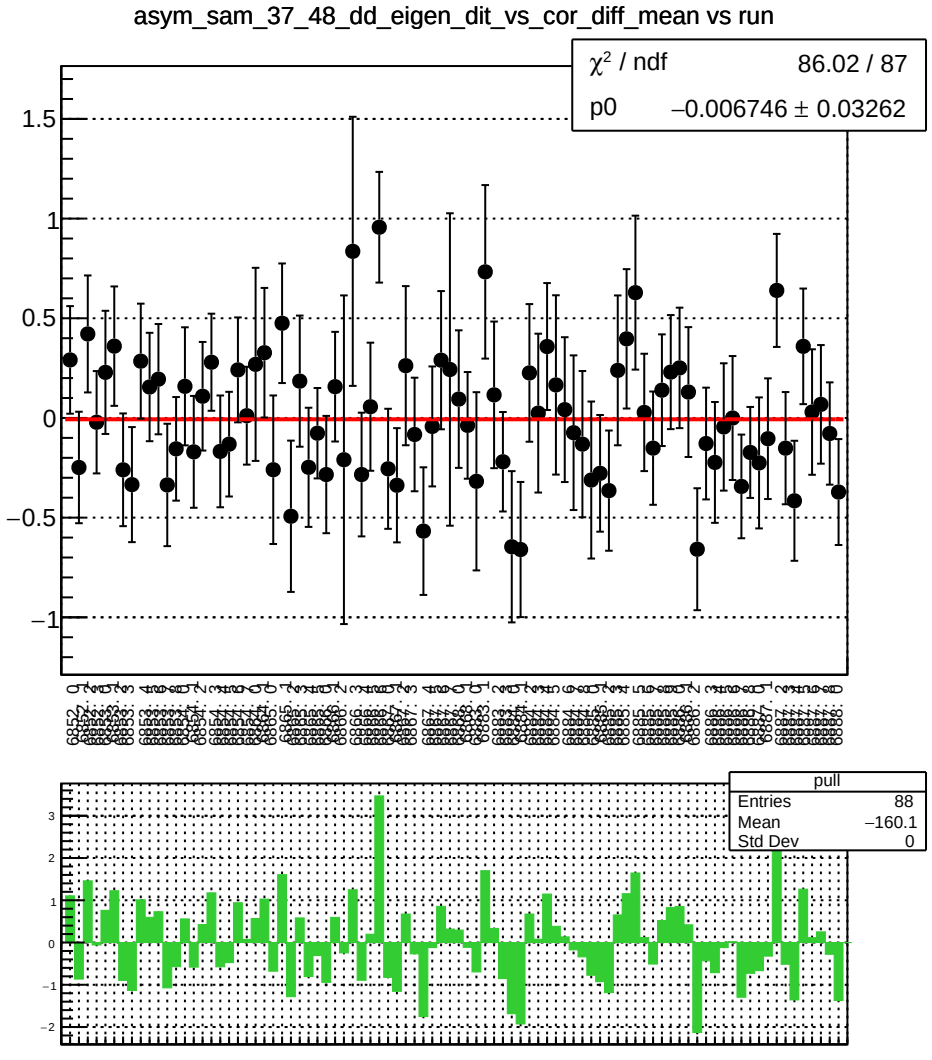

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.02 / 87
p0 −0.006744 ± 0.03262
pull
Entries 88
Mean −160.1
Std Dev 0

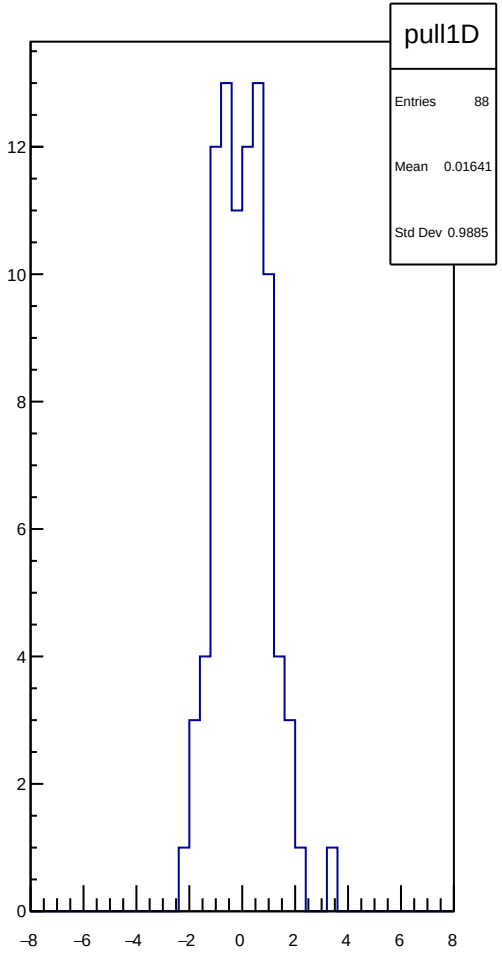

pull1D
Entries 88
Mean 0.01641
Std Dev 0.9885

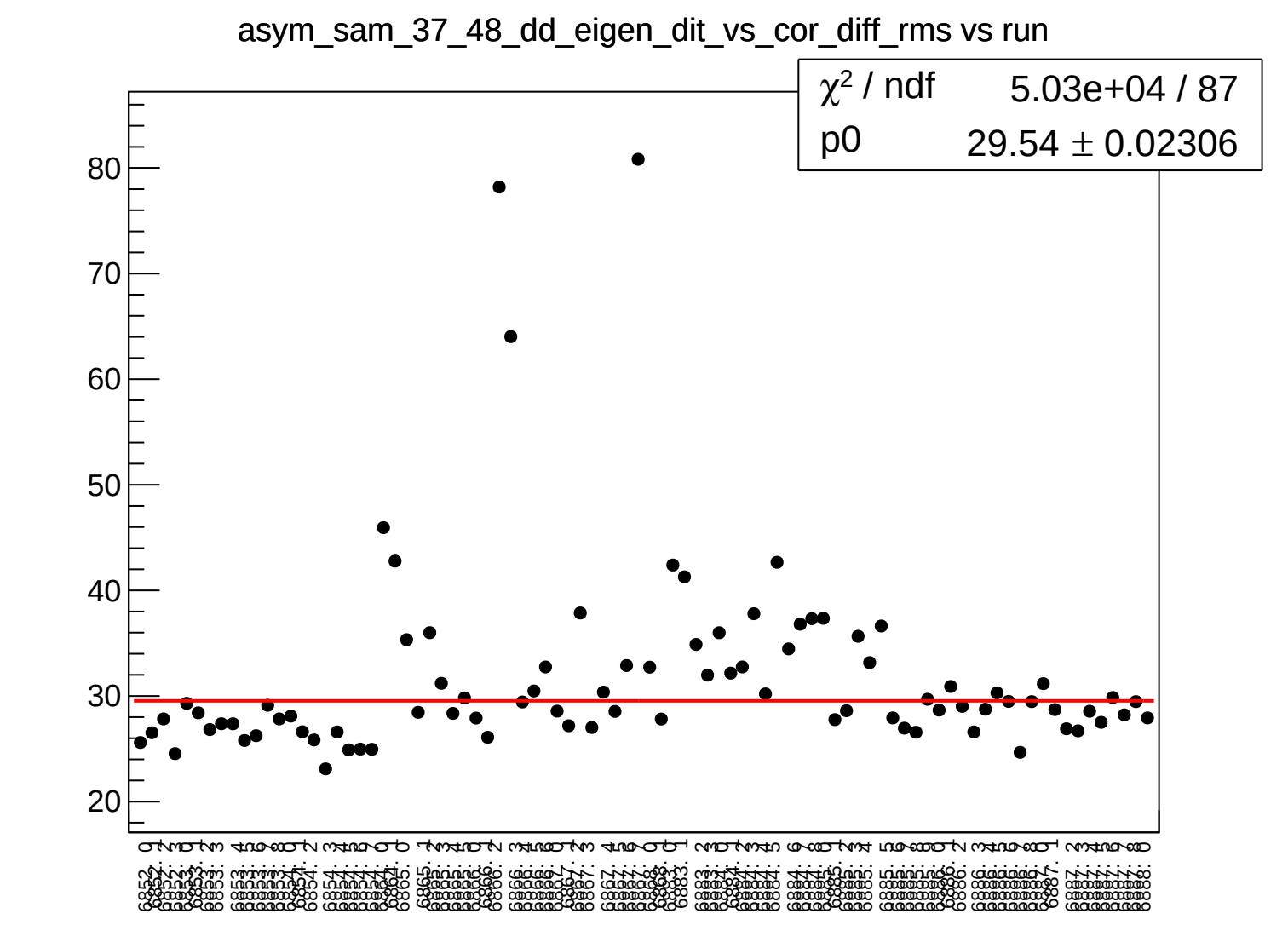

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.03e+04 / 87
p0 29.54 ± 0.02306
80
70
60
50
40
30
20


asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.3 / 87
p0 1.189e−06 ± 6.481e−07
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 74.3
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.05682
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

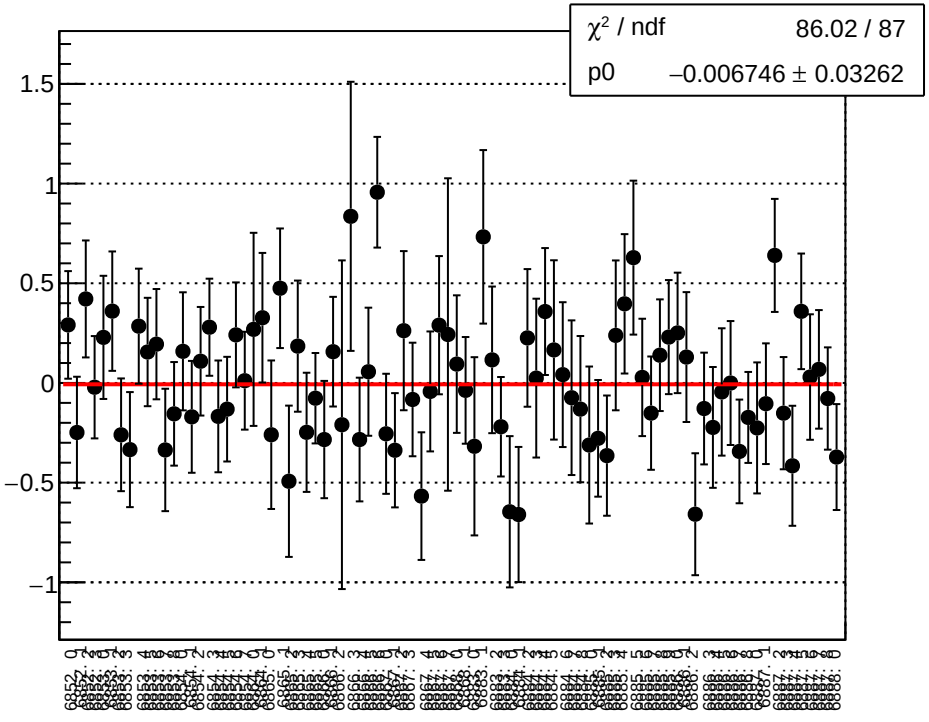

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.779e+05 / 87
p0 0.0005047 ± 4.583e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

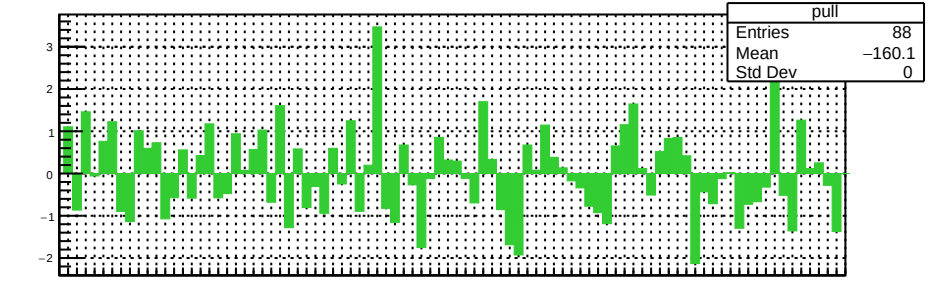

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.02 / 87
p0 −0.006746 ± 0.03262
pull
Entries 88
Mean −160.1
Std Dev 0

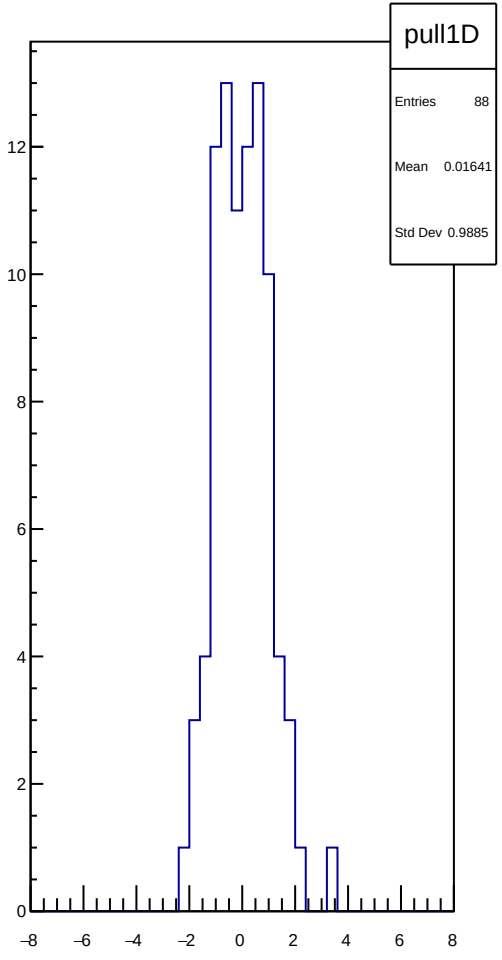

pull1D
Entries 88
Mean 0.01641
Std Dev 0.9885

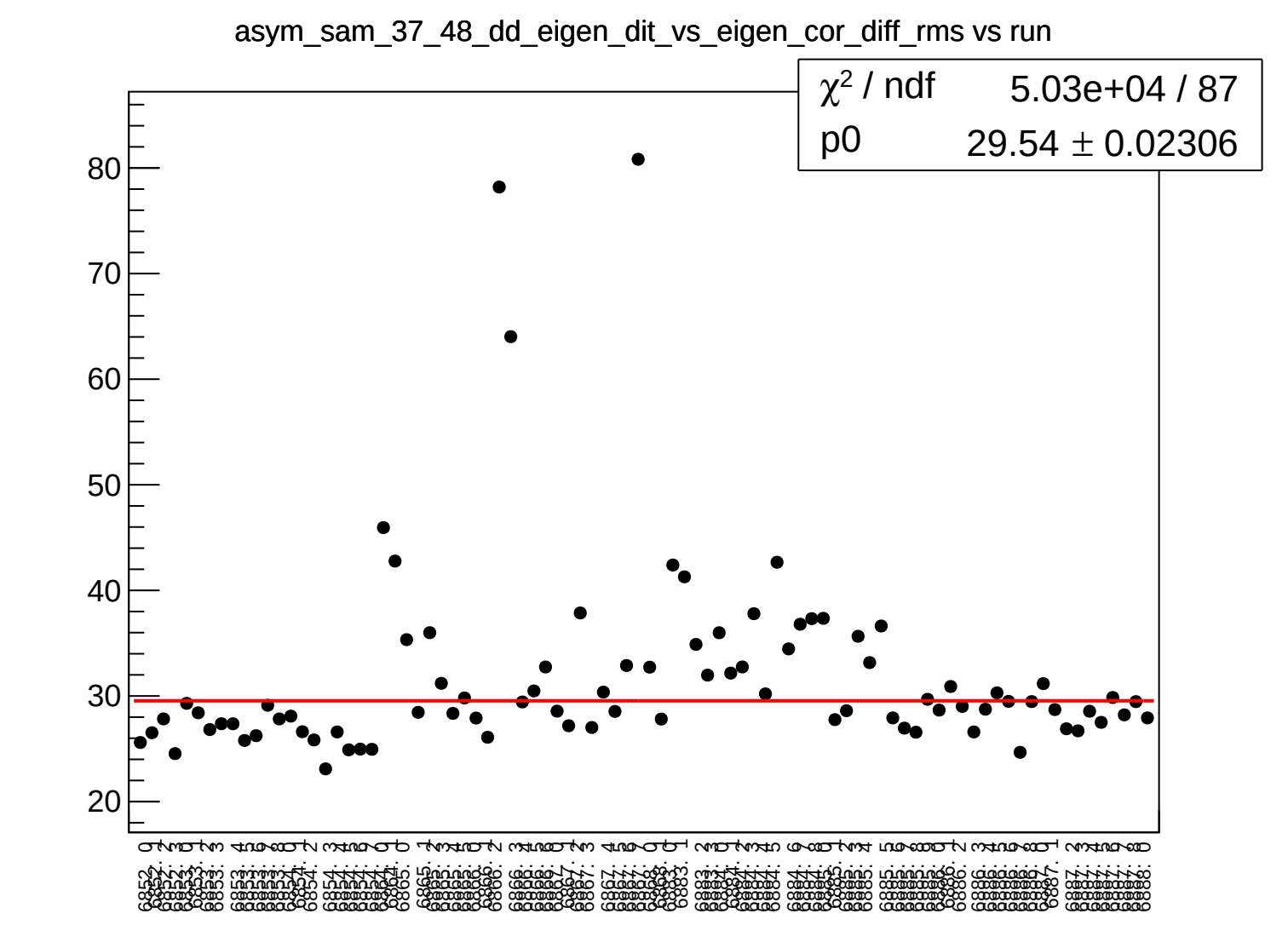

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.03e+04 / 87
p0 29.54 ± 0.02306
80
70
60
50
40
30
20

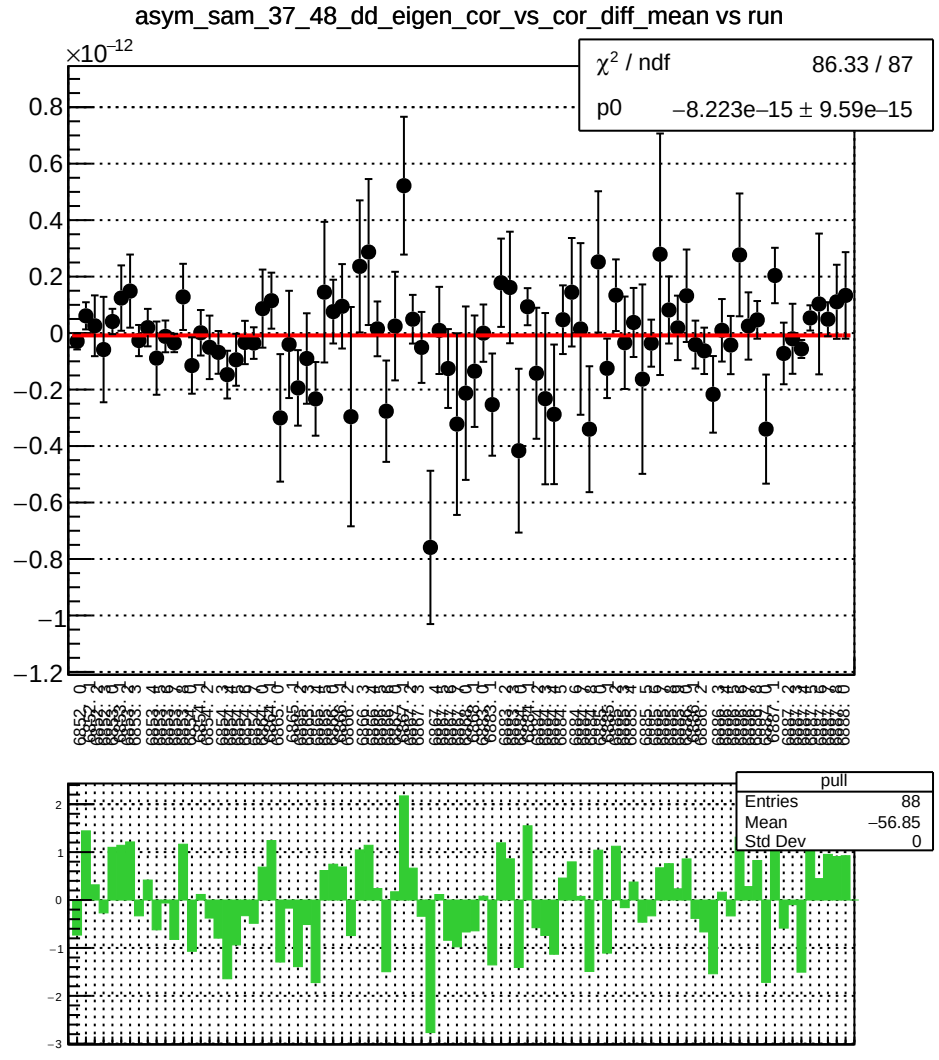
asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

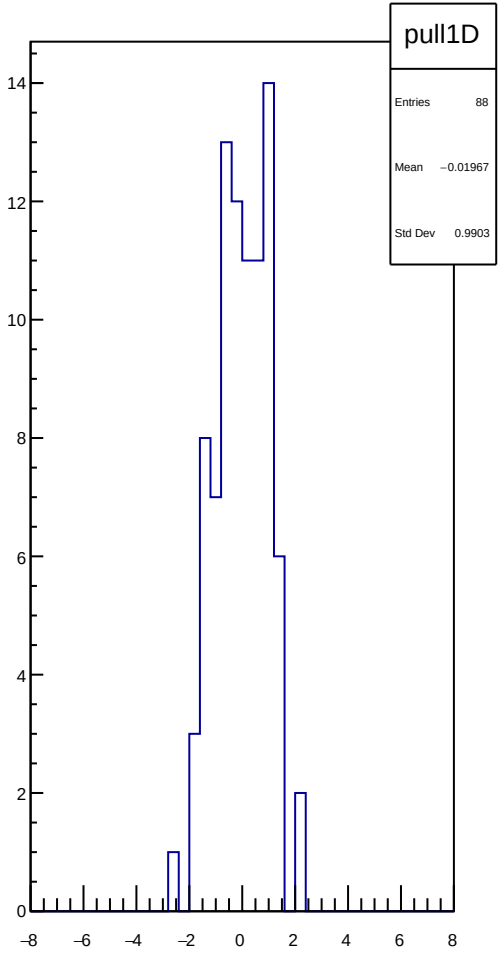


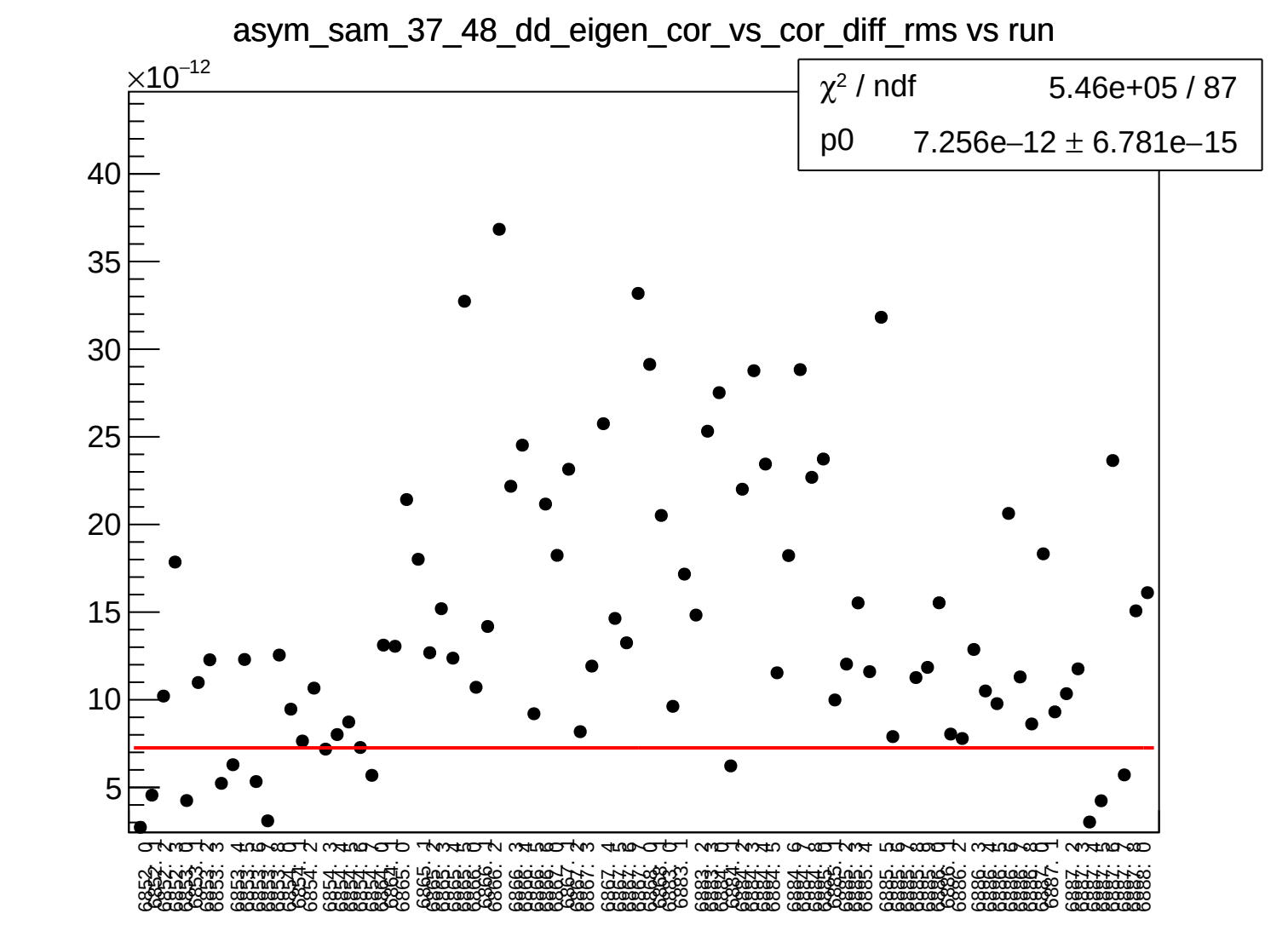


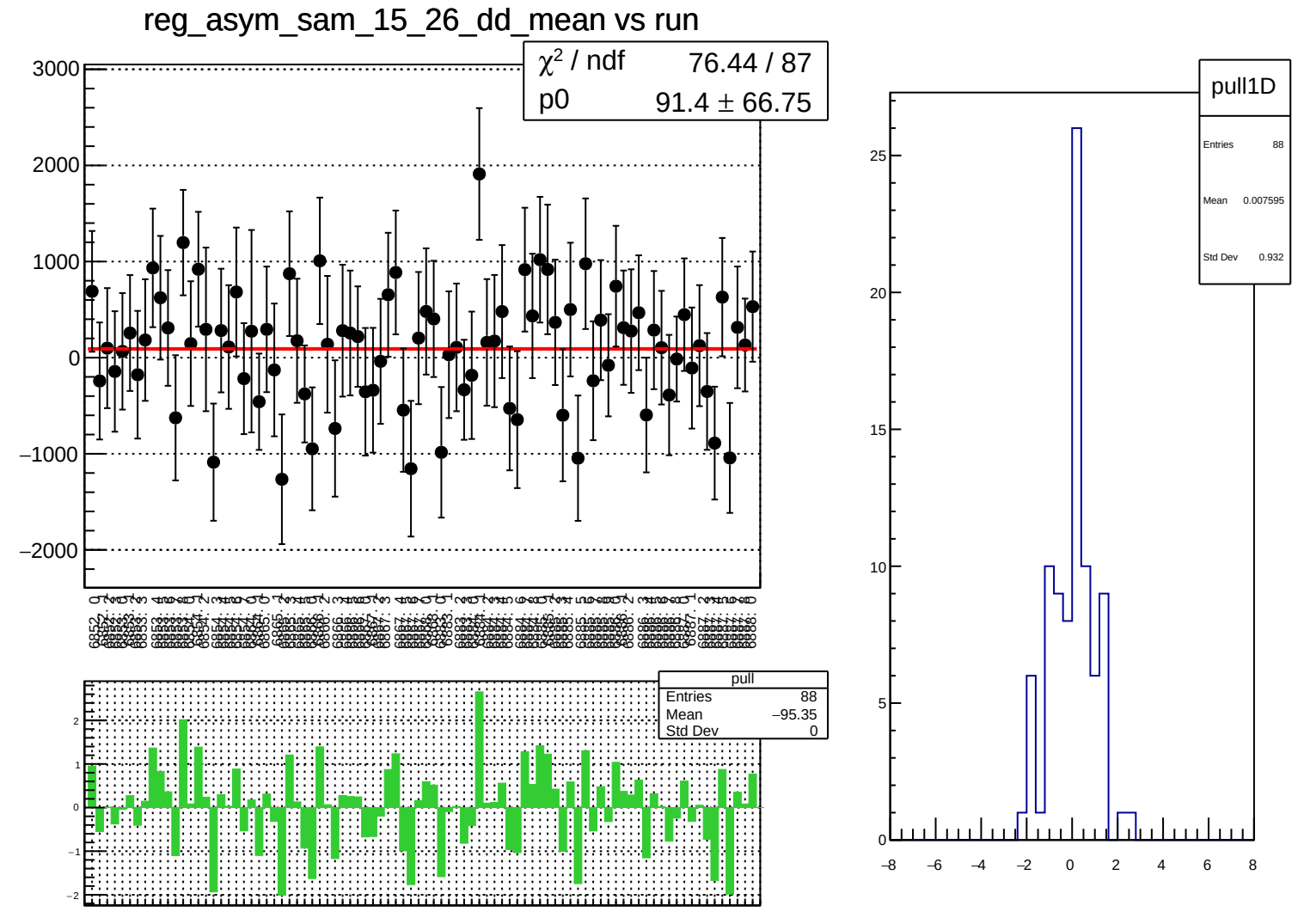


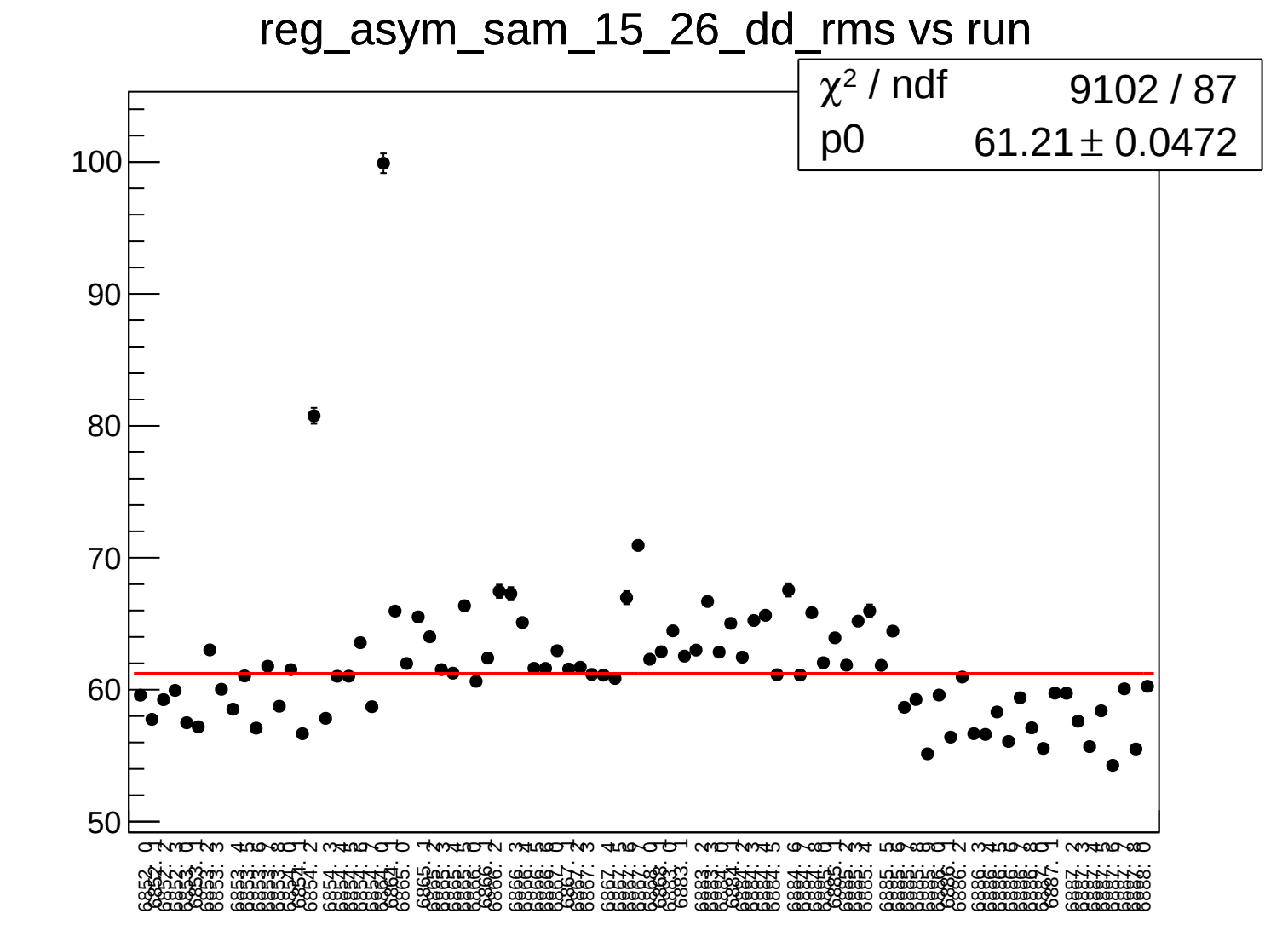

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.03e+04 / 87
p0 29.54 ± 0.02306
80
70
60
50
40
30
20

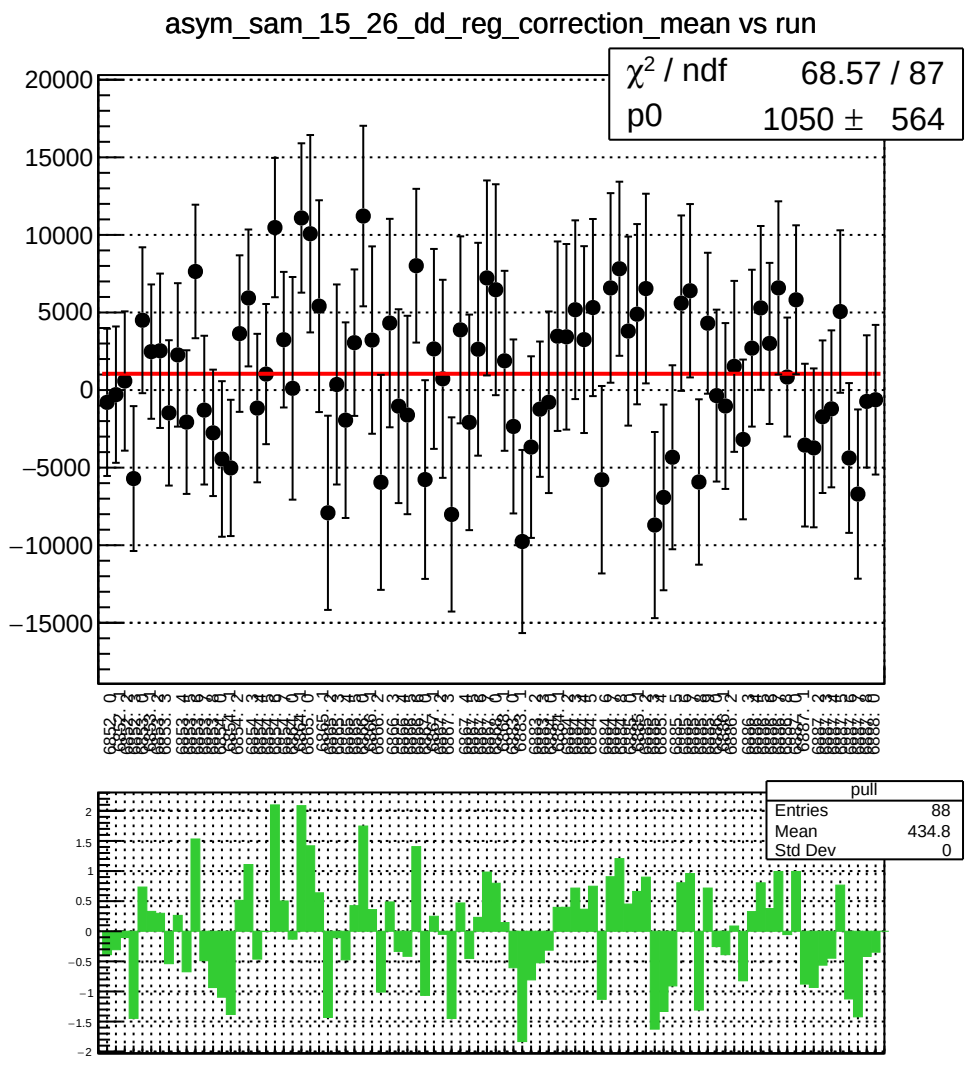

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.33 / 87
p0 −8.223e−15 ± 9.59e−15
pull
Entries 88
Mean −56.85
Std Dev 0

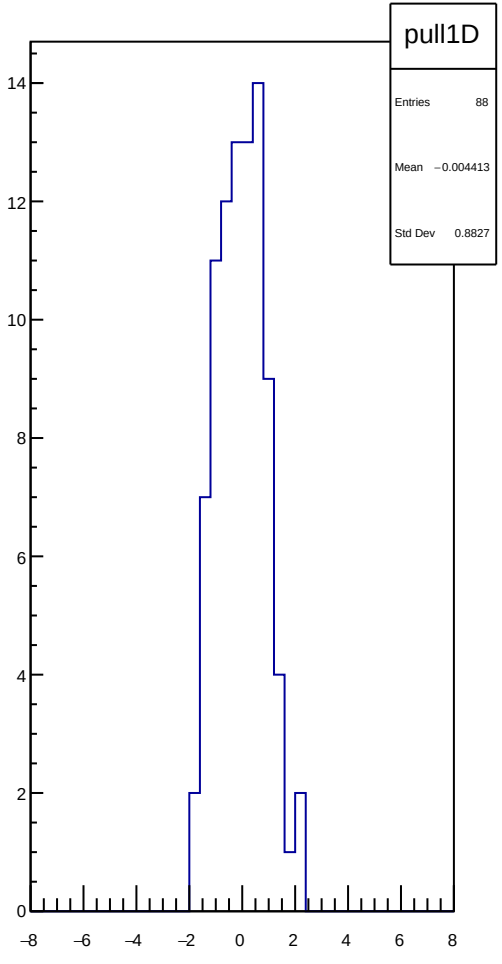

pull1D
Entries 88
Mean −0.01967
Std Dev 0.9903

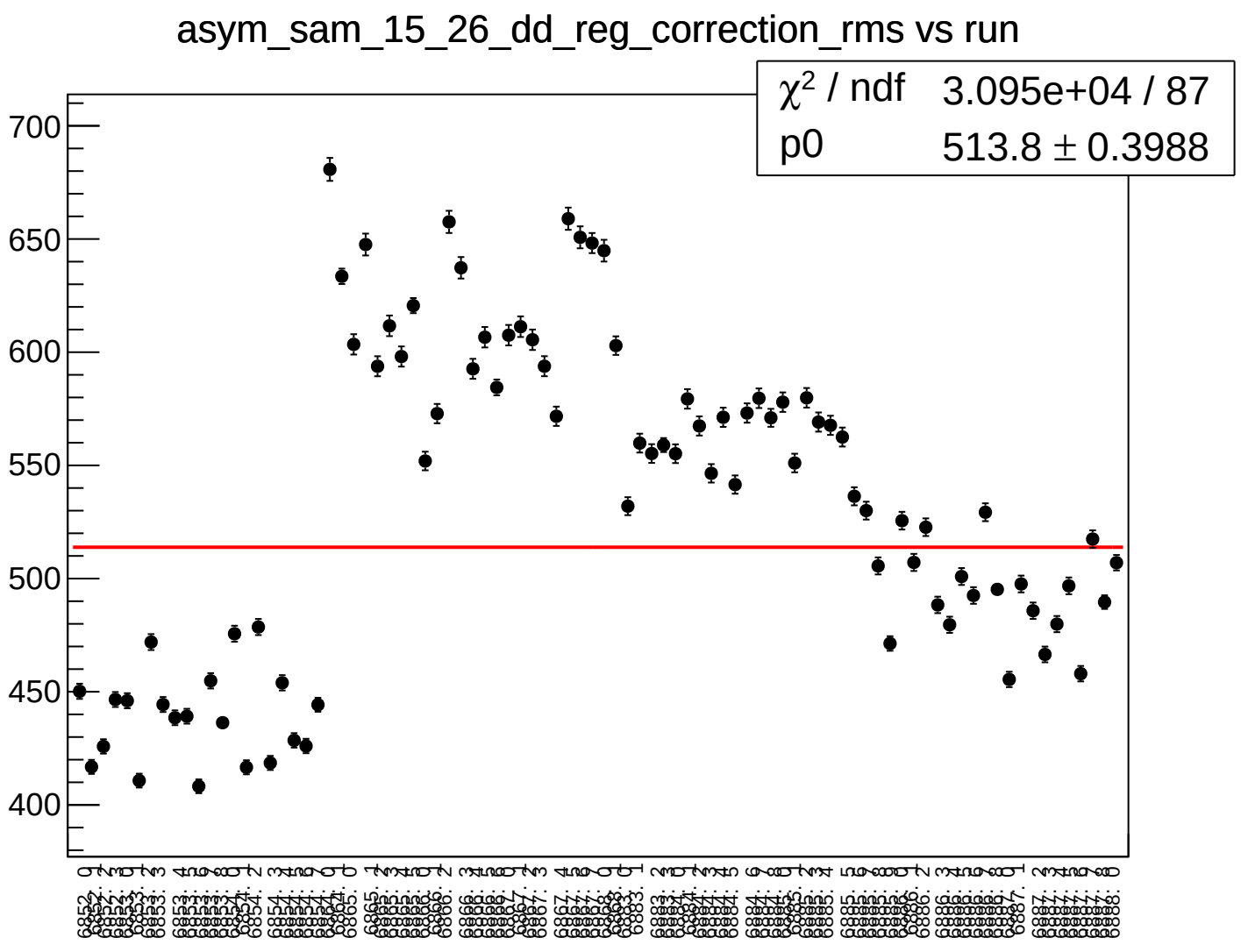

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.46e+05 / 87
p0 7.256e−12 ± 6.781e−15
40
35
30
25
20
15
10
5

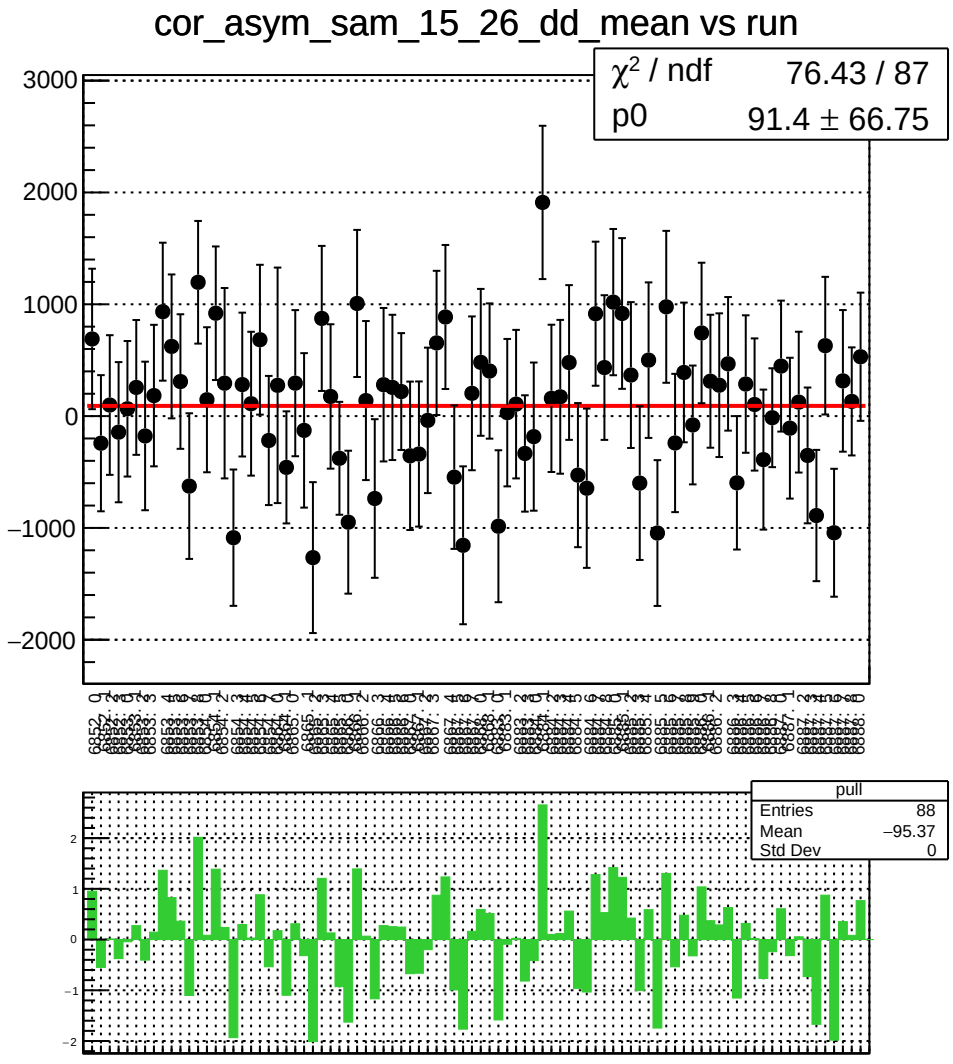

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 76.44 / 87
p0 91.4 ± 66.75
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −95.35
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.007595
Std Dev 0.932
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

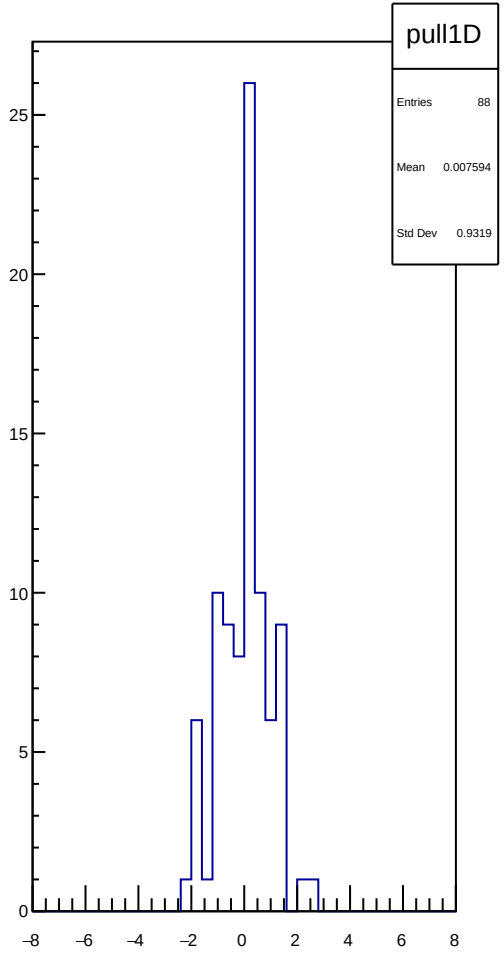

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 9102 / 87
p0 61.21 ± 0.0472
100
90
80
70
60
50

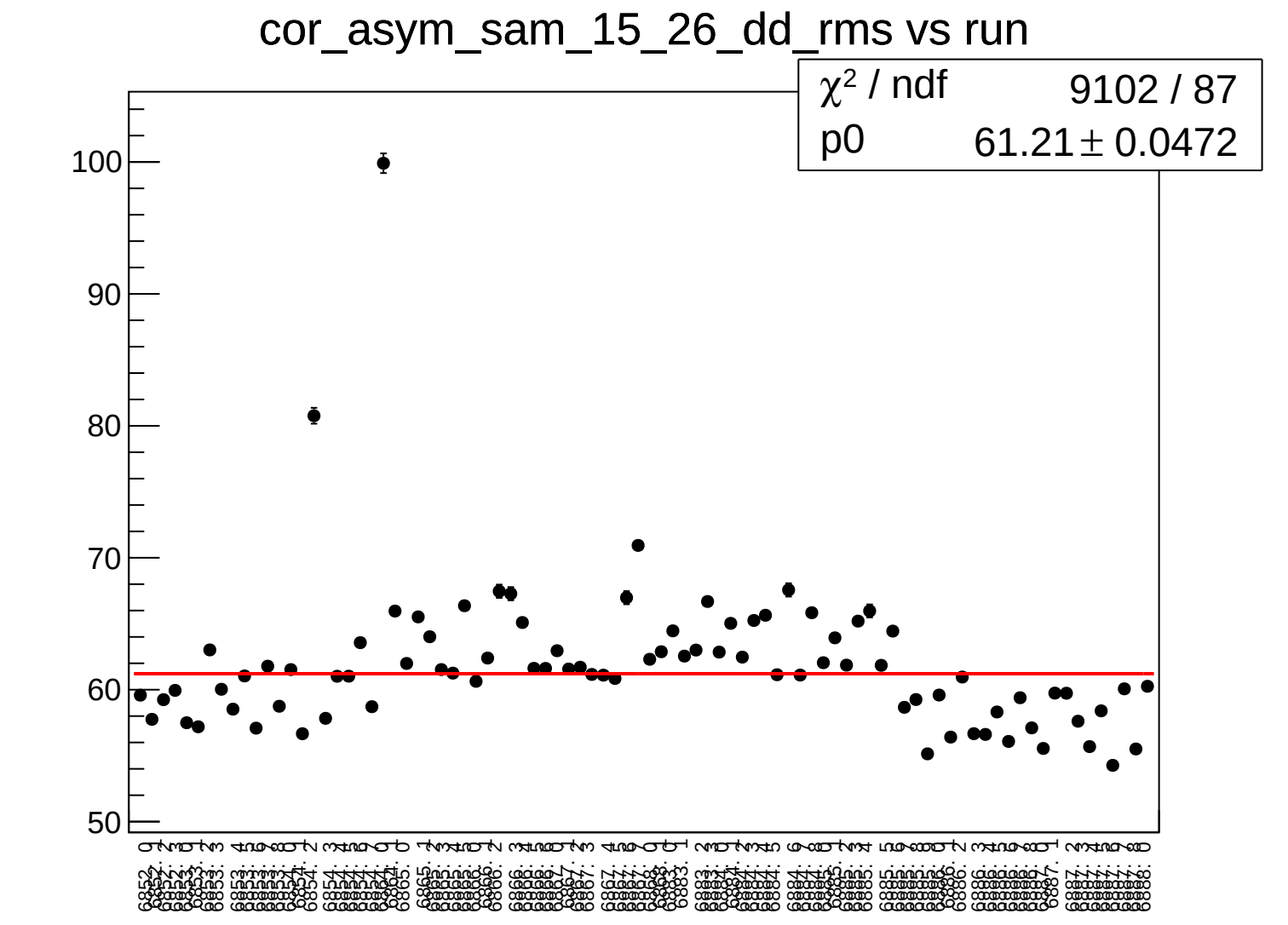

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 68.57 / 87
p0 1050 ± 564
pull
Entries 88
Mean 434.8
Std Dev 0

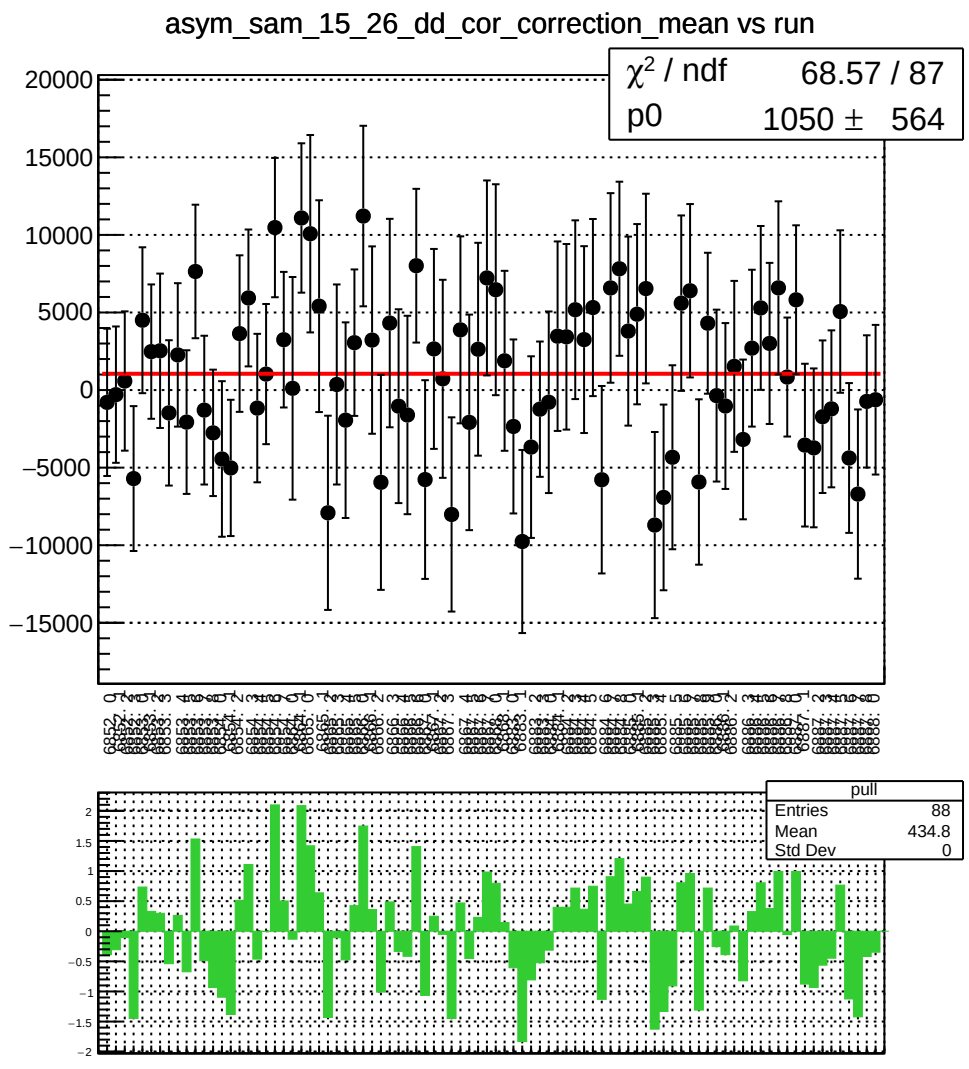

pull1D
Entries 88
Mean −0.004413
Std Dev 0.8827

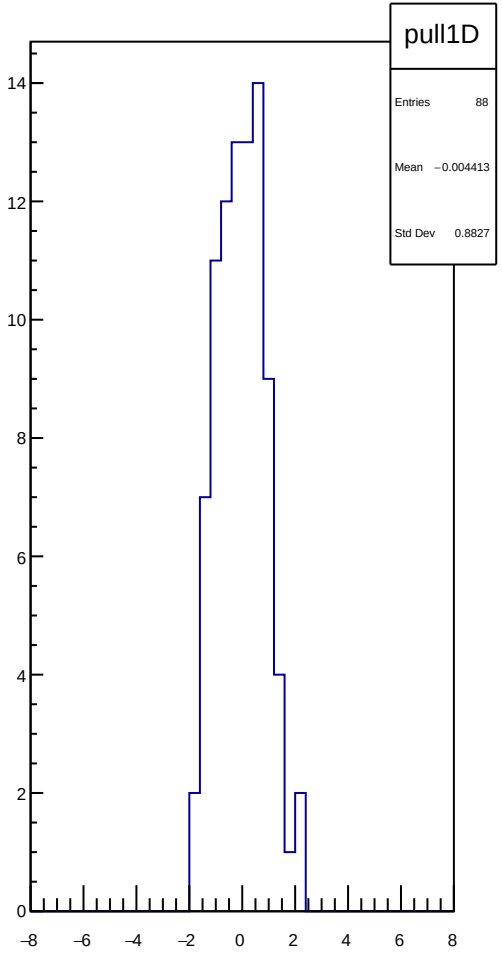

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 3.095e+04 / 87
p0 513.8 ± 0.3988
700
650
600
550
500
450
400

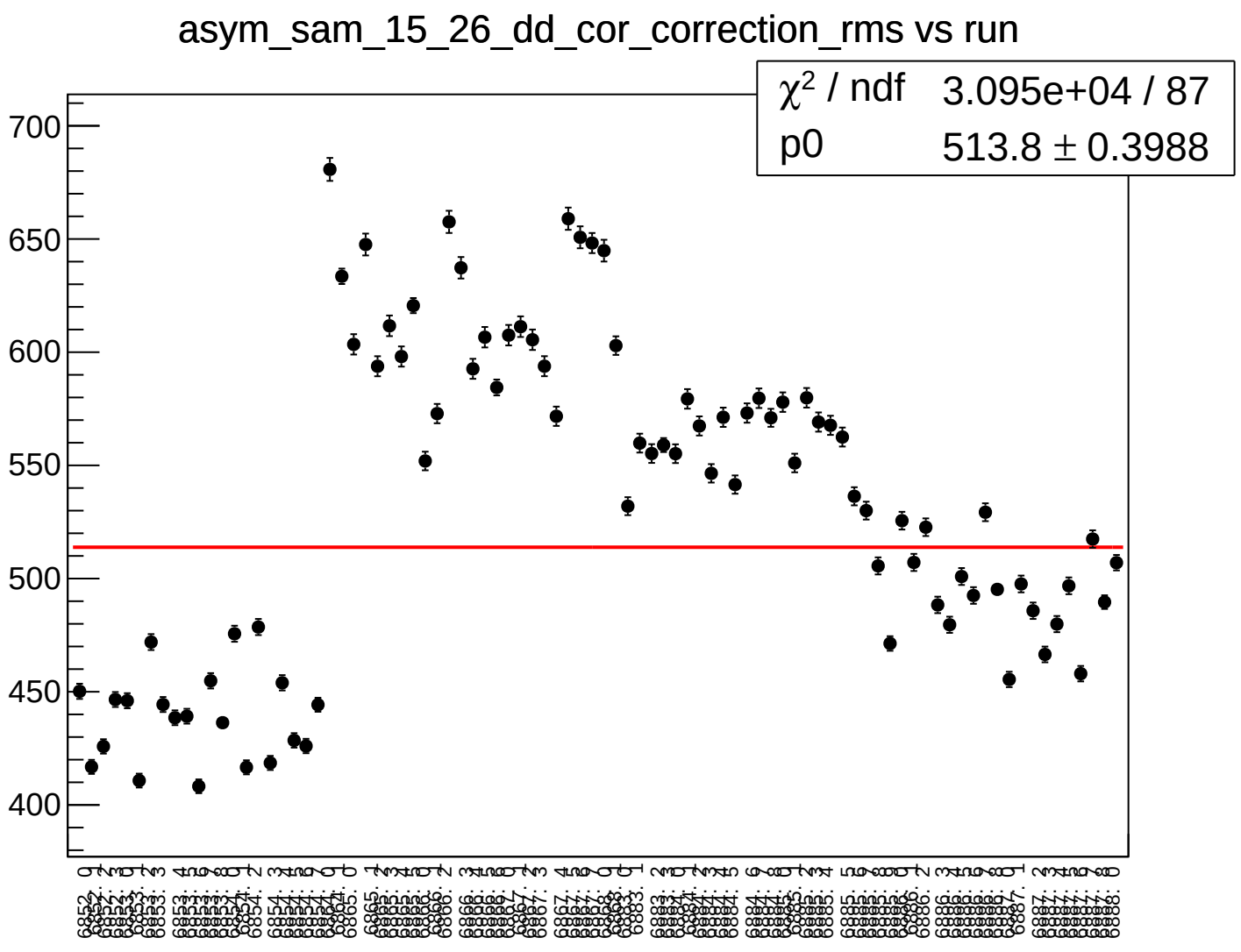

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 76.43 / 87
p0 91.4 ± 66.75
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −95.37
Std Dev 0
2
1
0
−1
−2

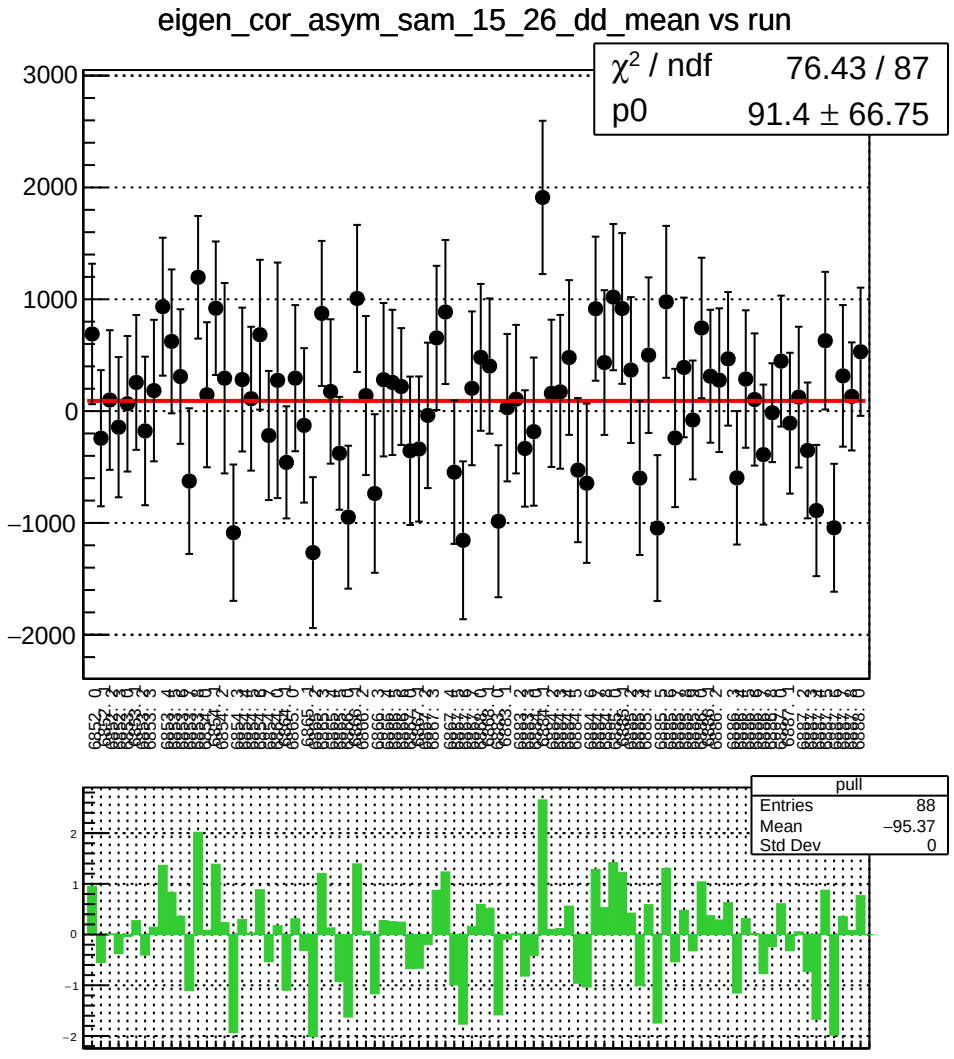

pull1D
Entries 88
Mean 0.007594
Std Dev 0.9319
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

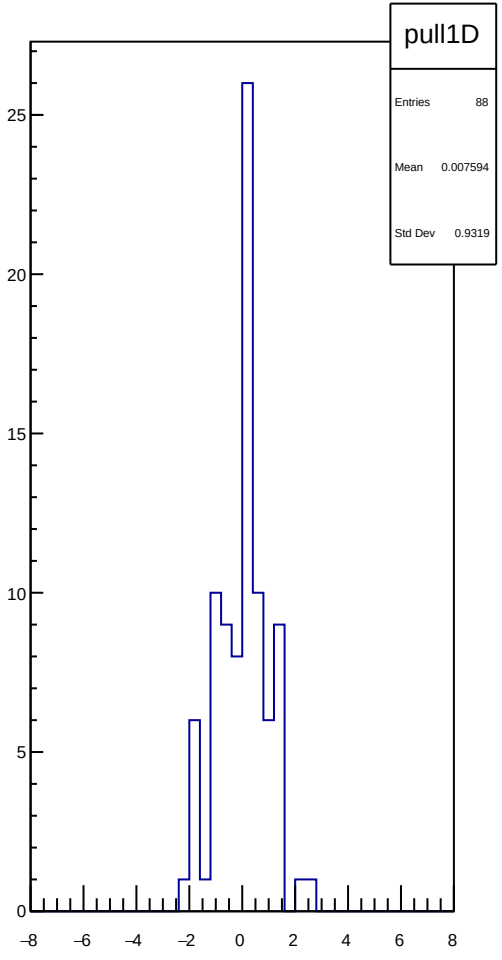

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 9102 / 87
p0 61.21 ± 0.0472
100
90
80
70
60
50

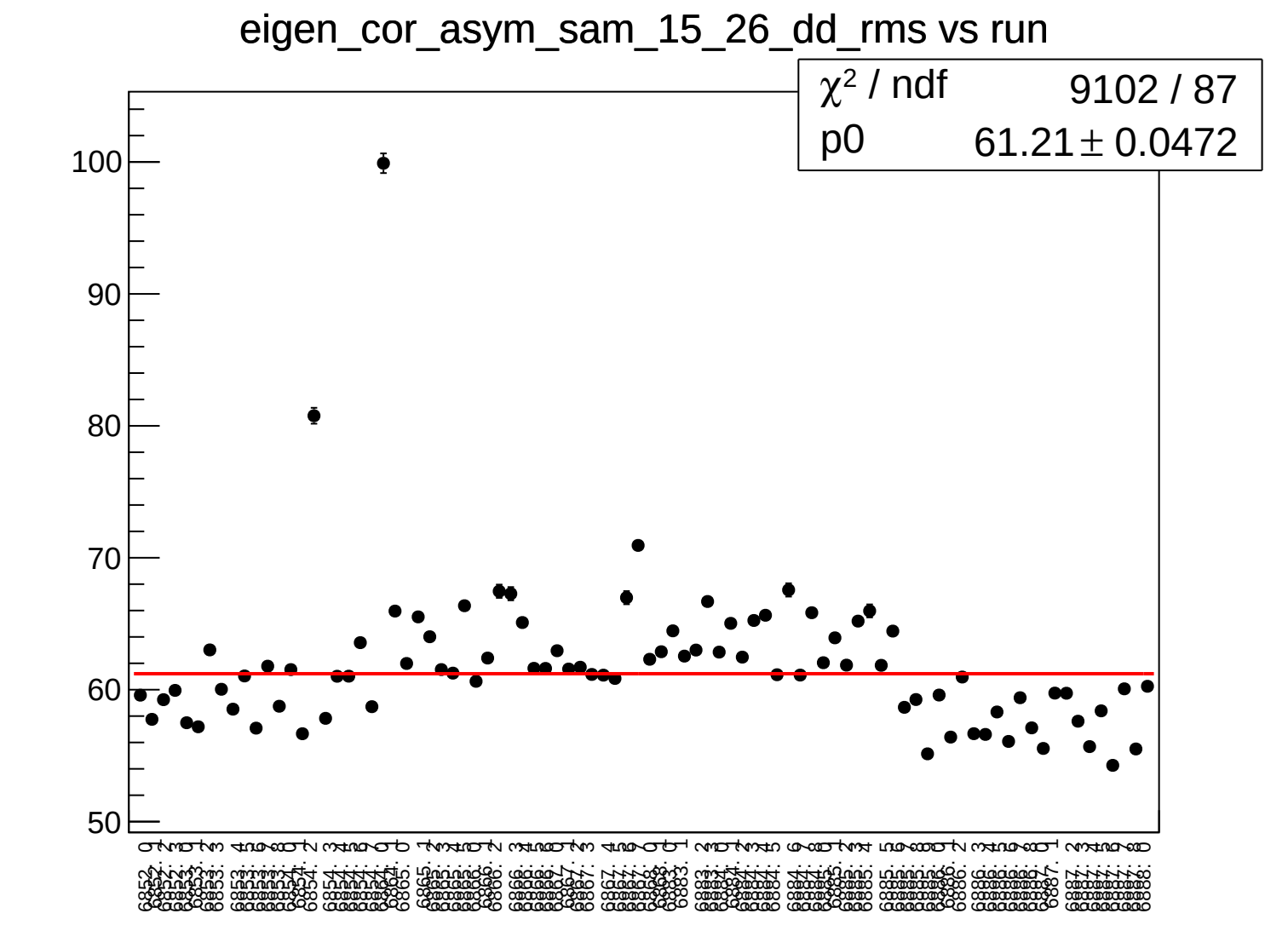

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 68.57 / 87
p0 1050 ± 564
pull
Entries 88
Mean 434.8
Std Dev 0

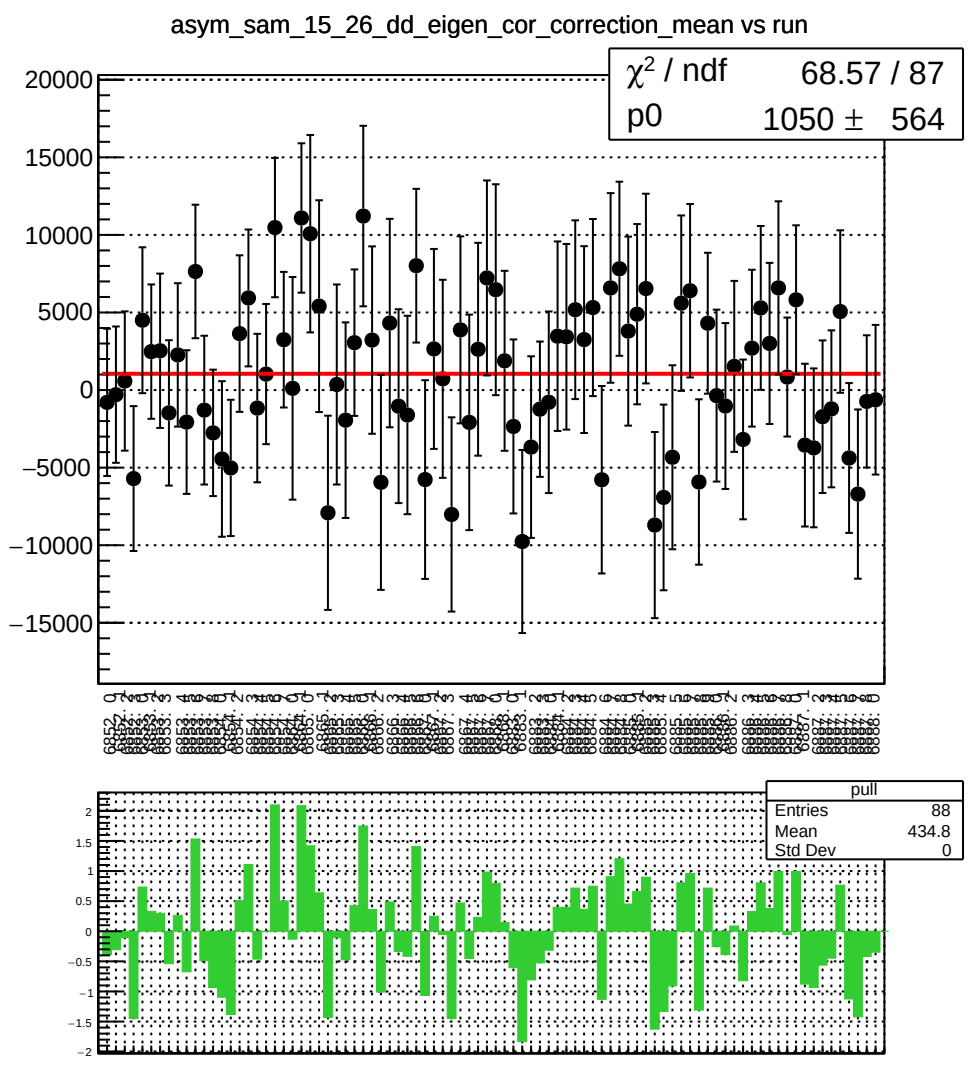

pull1D
Entries 88
Mean −0.004413
Std Dev 0.8827

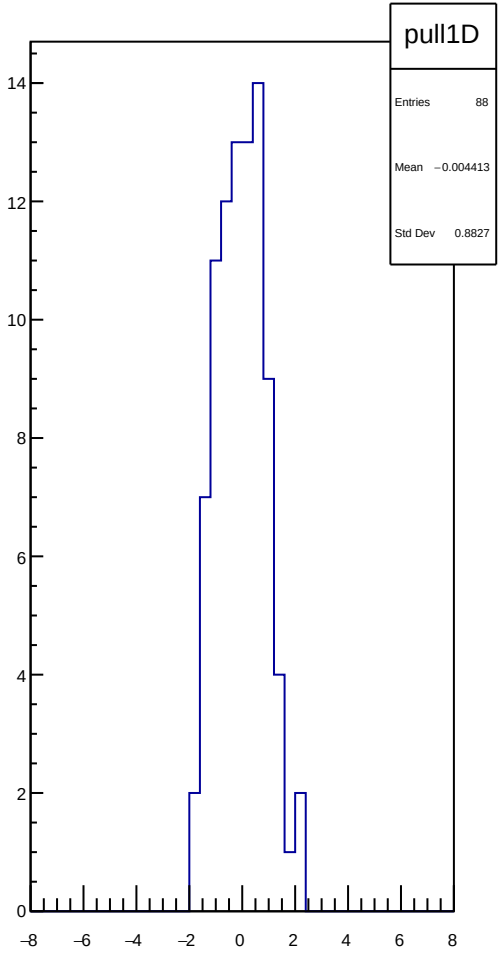

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 3.095e+04 / 87
p0 513.8 ± 0.3988
700
650
600
550
500
450
400

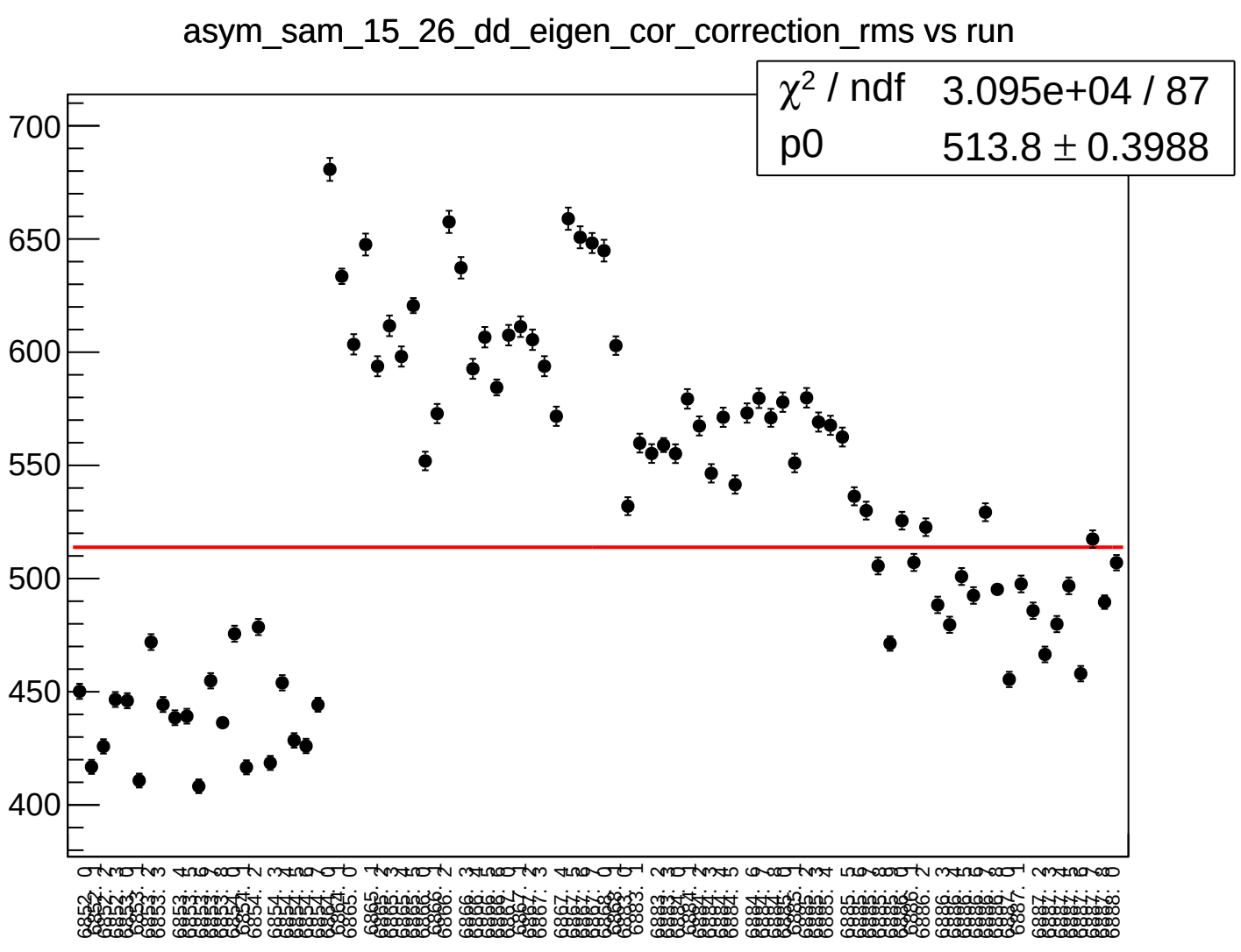

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 76.43 / 87
p0 91.4 ± 66.75
3000
2000
1000
0
−1000
−2000
pull
Entries 88
Mean −95.37
Std Dev 0
2
1
0
−1
−2

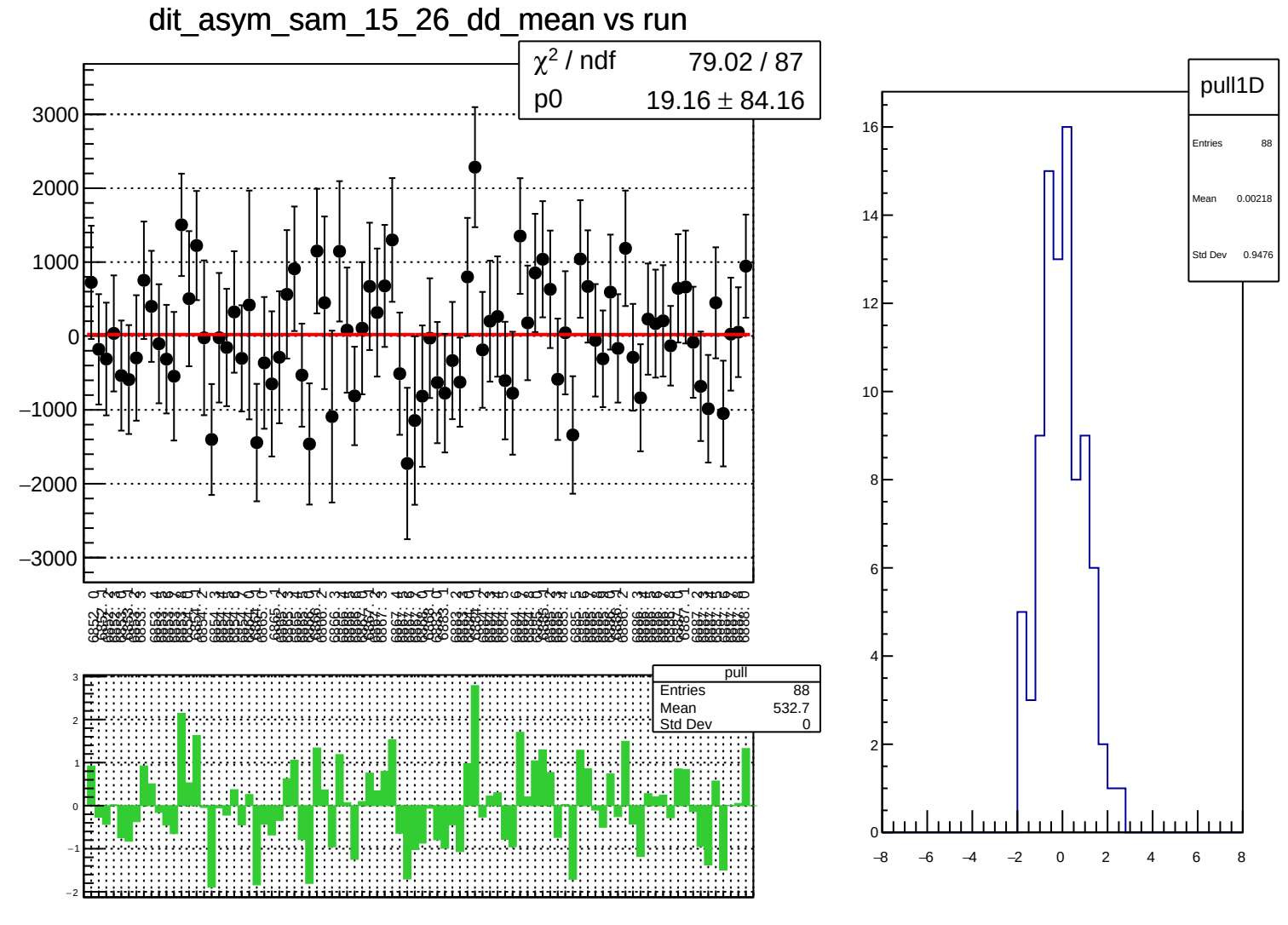

pull1D
Entries 88
Mean 0.007594
Std Dev 0.9319
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

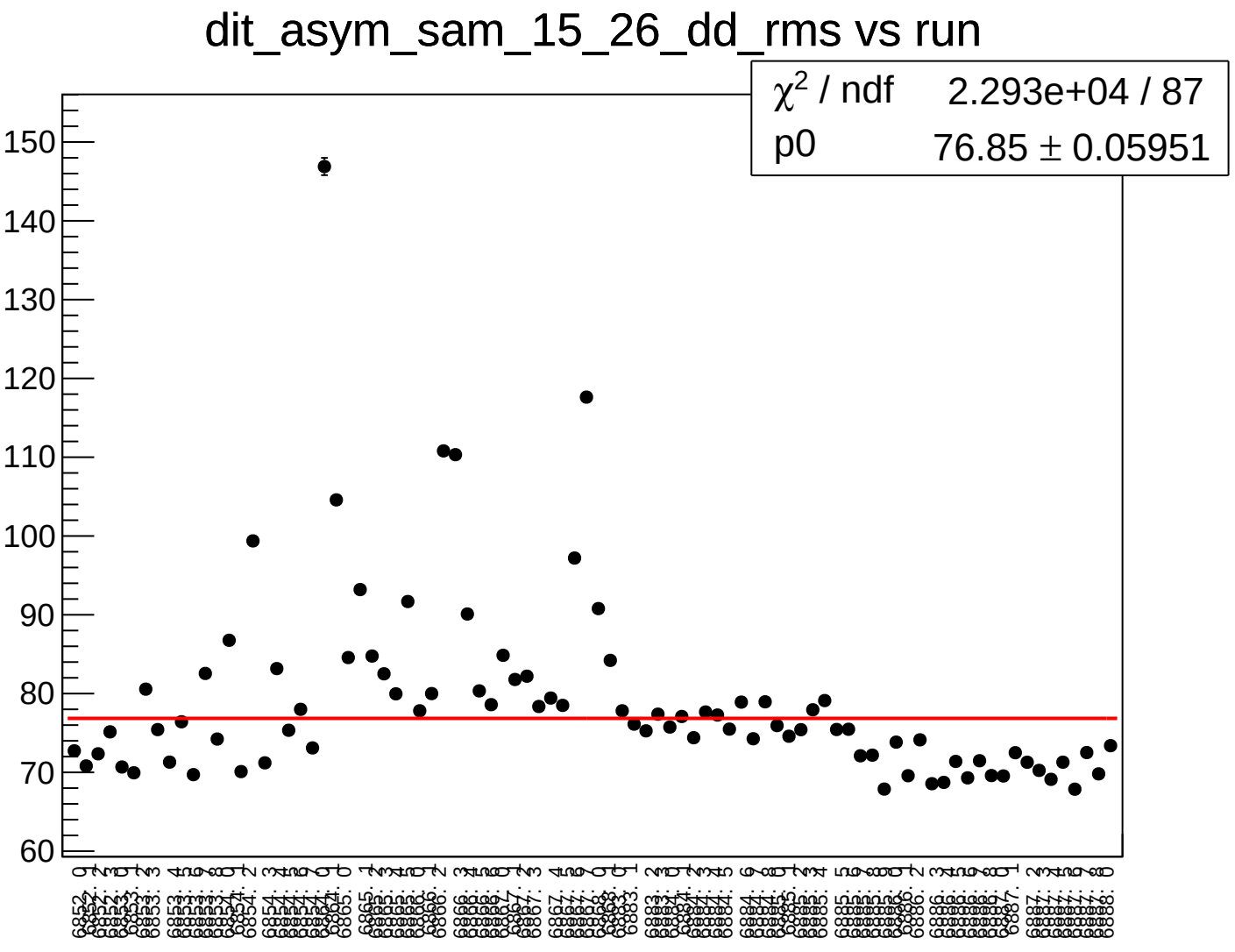

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 9102 / 87
p0 61.21 ± 0.0472
100
90
80
70
60
50

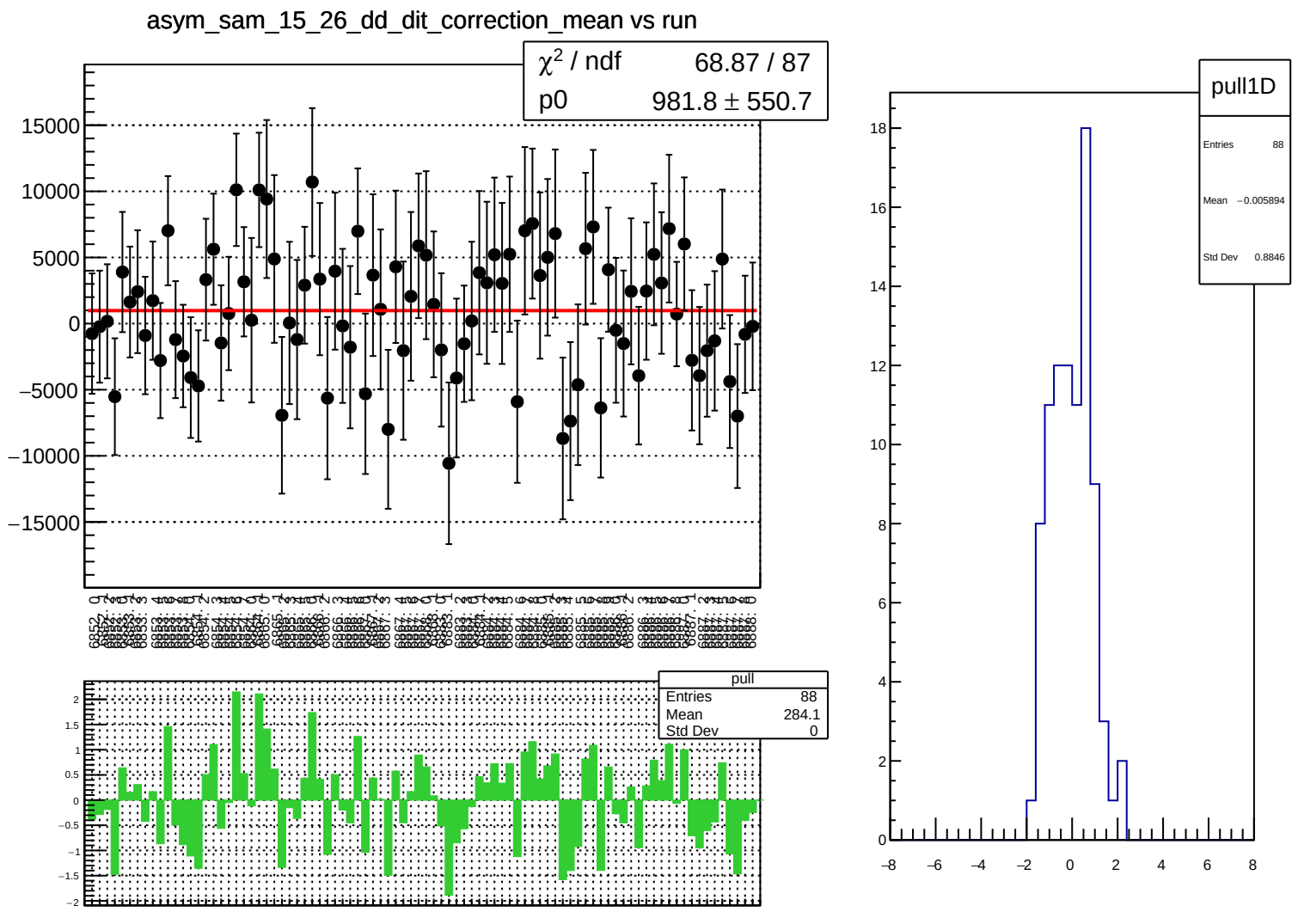

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.57 / 87
p0 1050 ± 564
pull
Entries 88
Mean 434.8
Std Dev 0

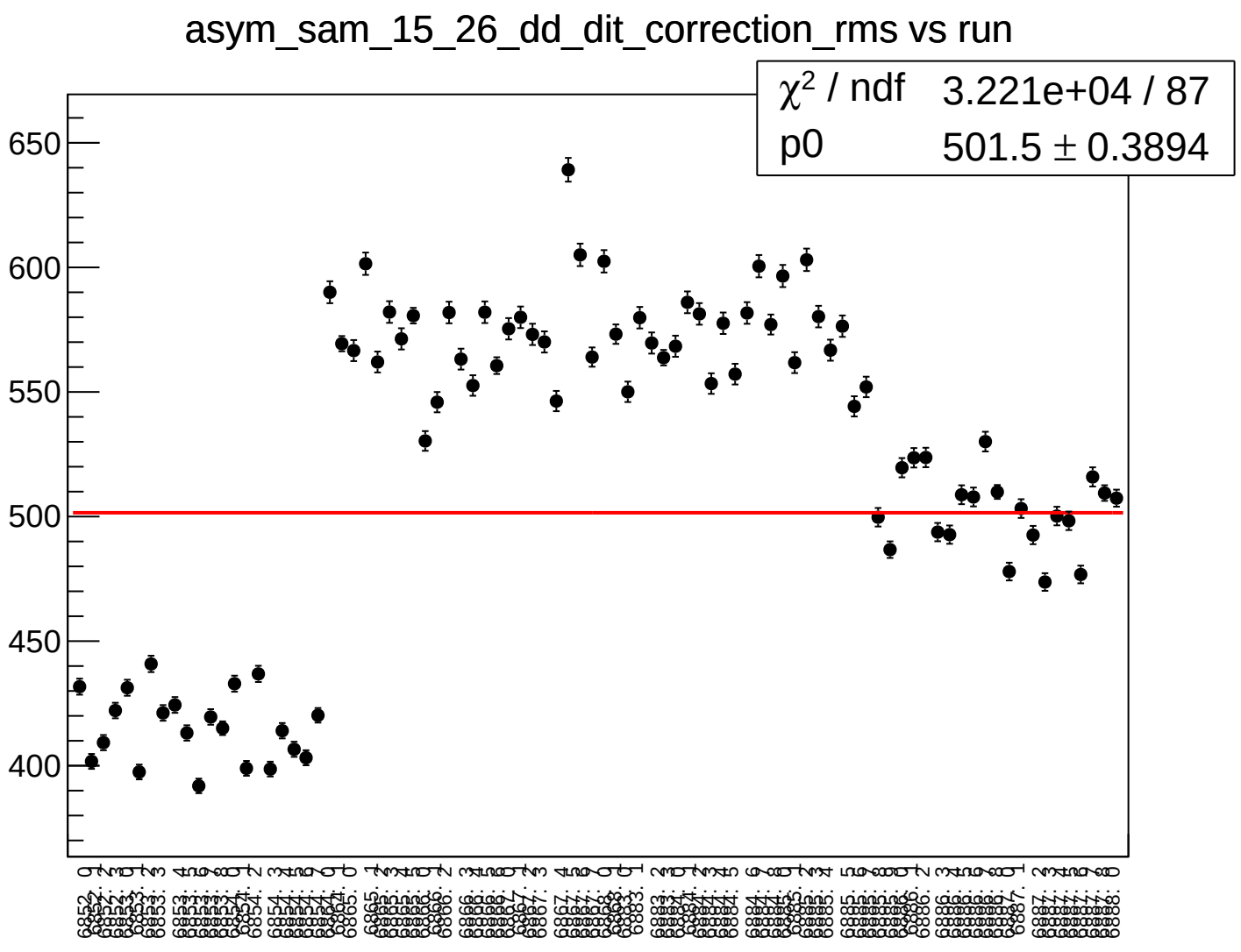

pull1D
Entries 88
Mean −0.004413
Std Dev 0.8827

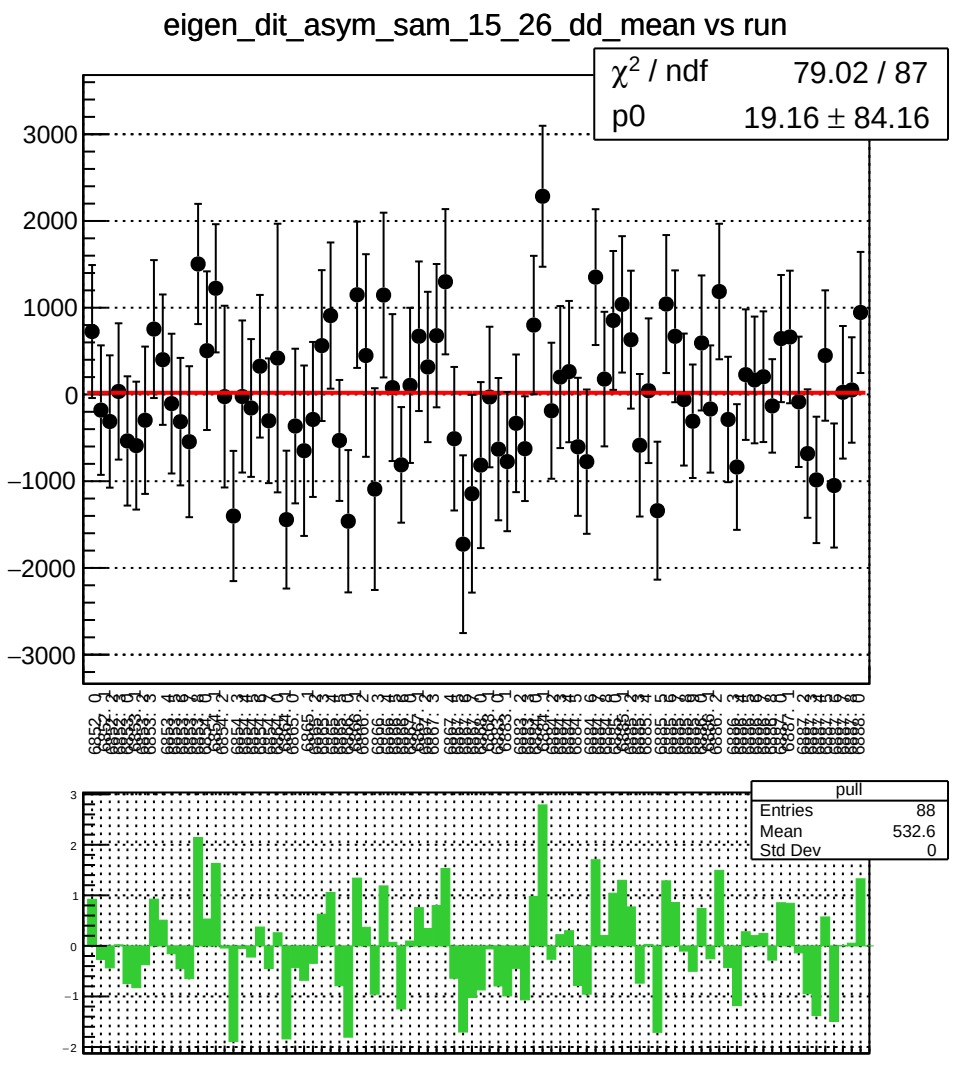

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.095e+04 / 87
p0 513.8 ± 0.3988
700
650
600
550
500
450
400

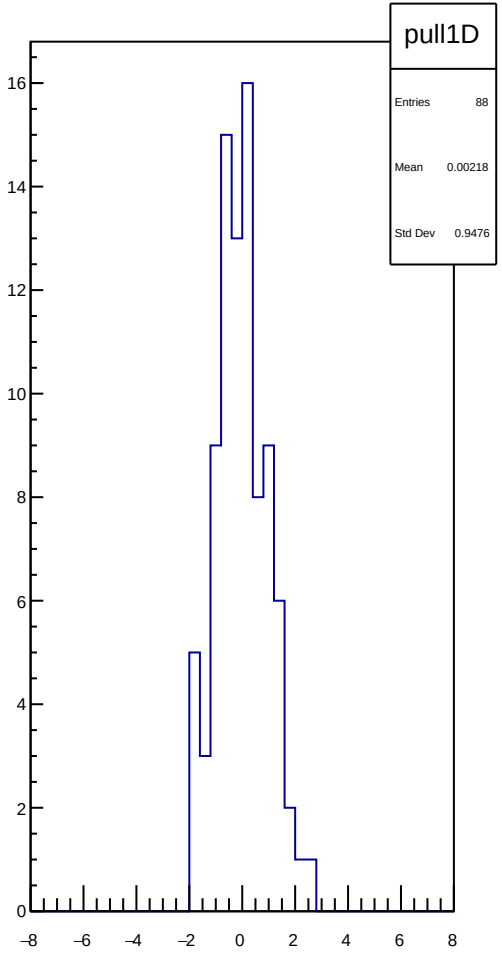

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 79.02 / 87
p0 19.16 ± 84.16
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 532.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.00218
Std Dev 0.9476
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

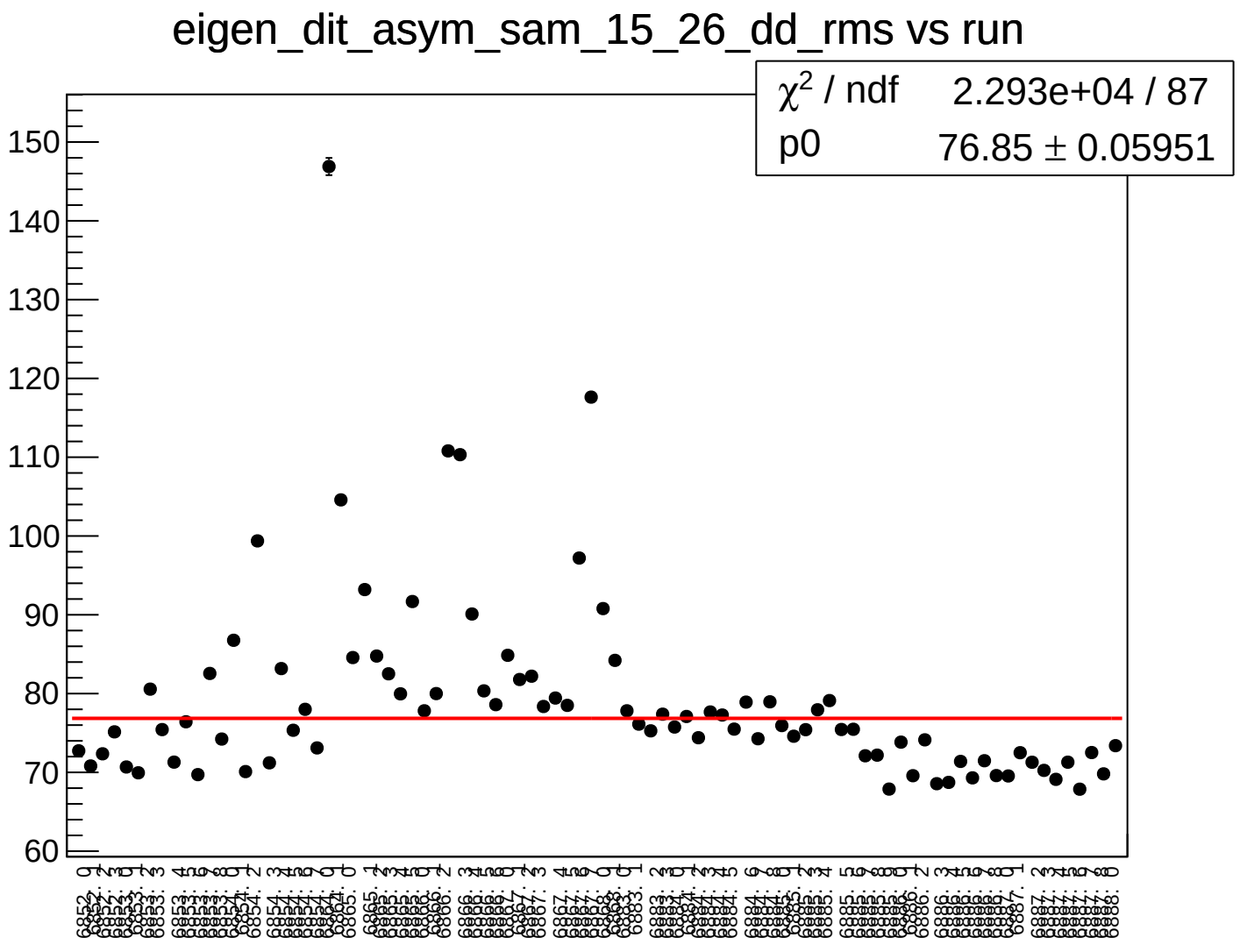

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.293e+04 / 87
p0 76.85 ± 0.05951
150
140
130
120
110
100
90
80
70
60

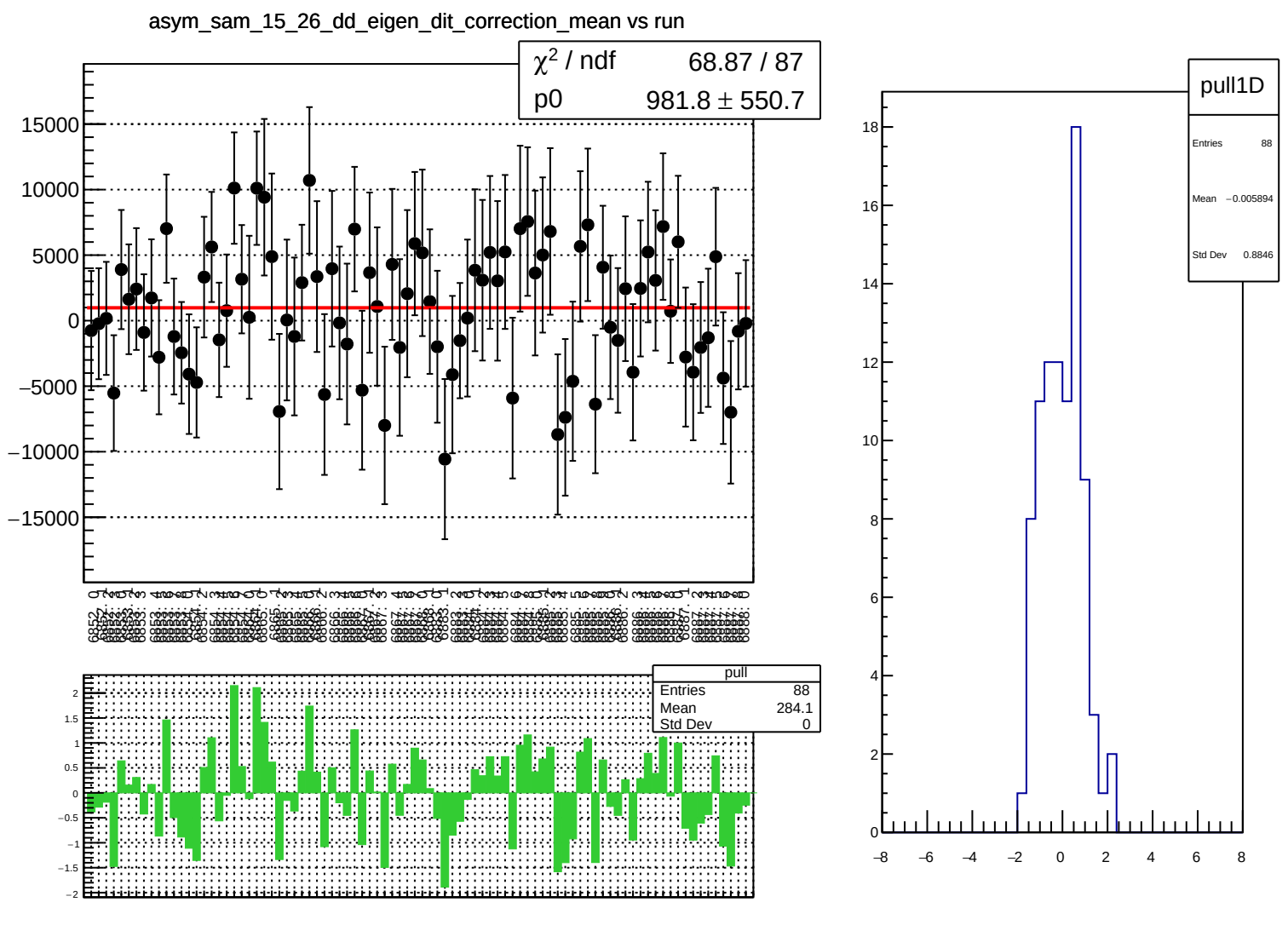

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 68.87 / 87
p0 981.8 ± 550.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 284.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.005894
Std Dev 0.8846
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

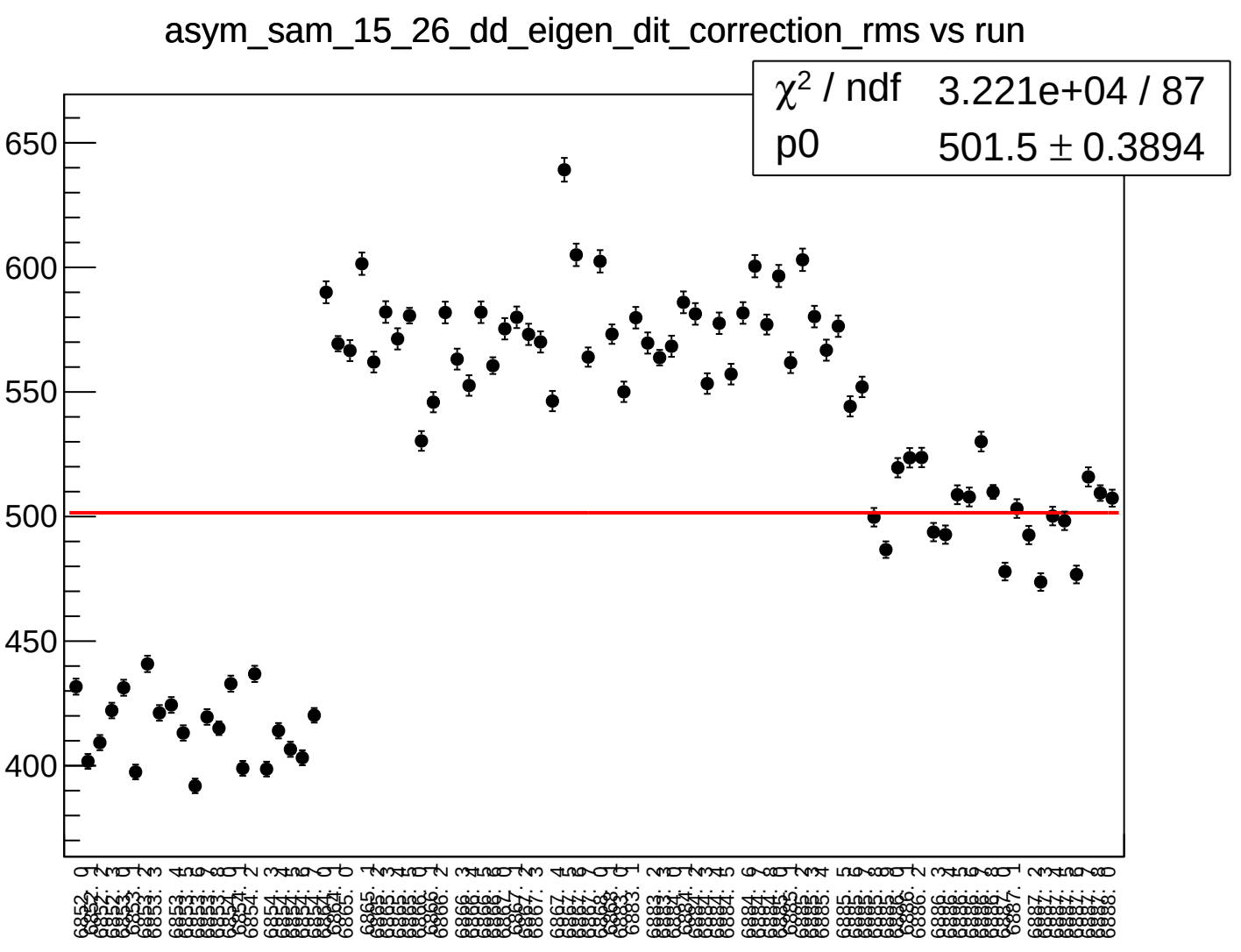

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 3.221e+04 / 87
p0 501.5 ± 0.3894
650
600
550
500
450
400

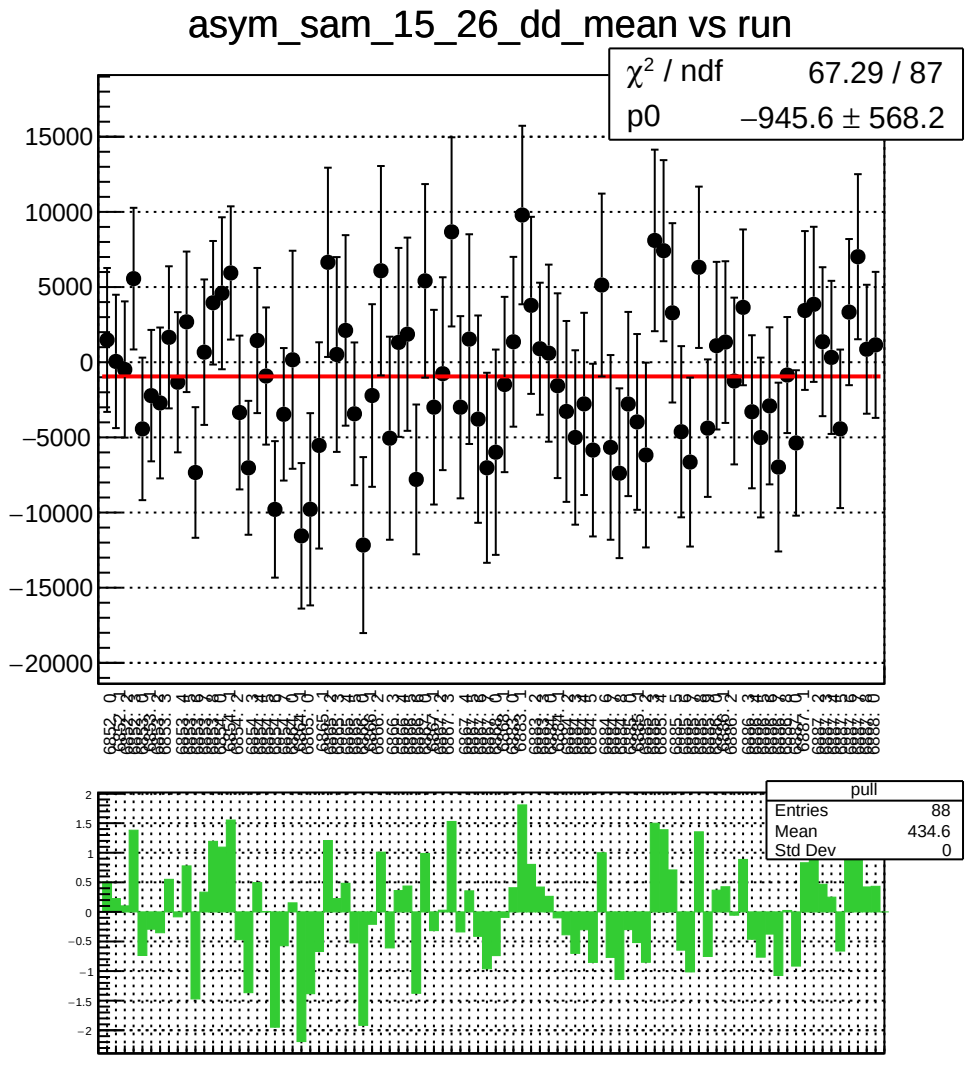

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 79.02 / 87
p0 19.16 ± 84.16
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean 532.6
Std Dev 0
3
2
1
0
−1
−2

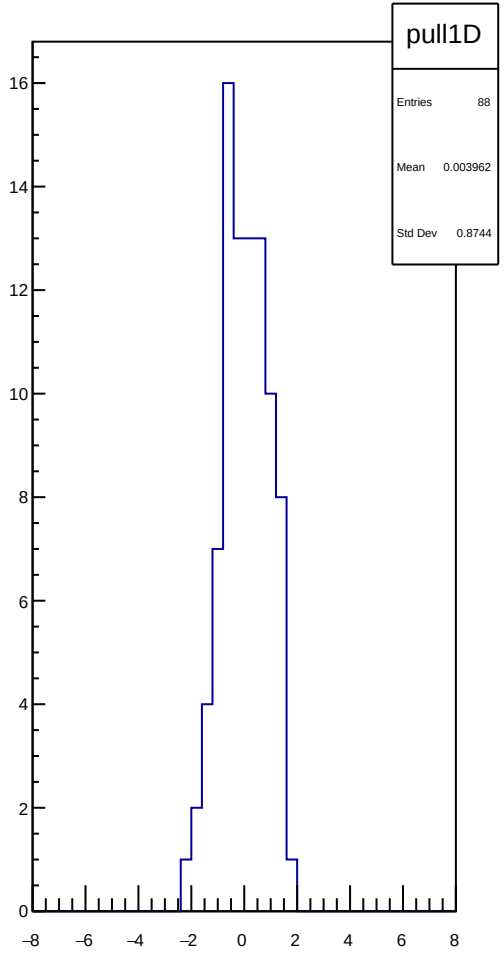

pull1D
Entries 88
Mean 0.00218
Std Dev 0.9476
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

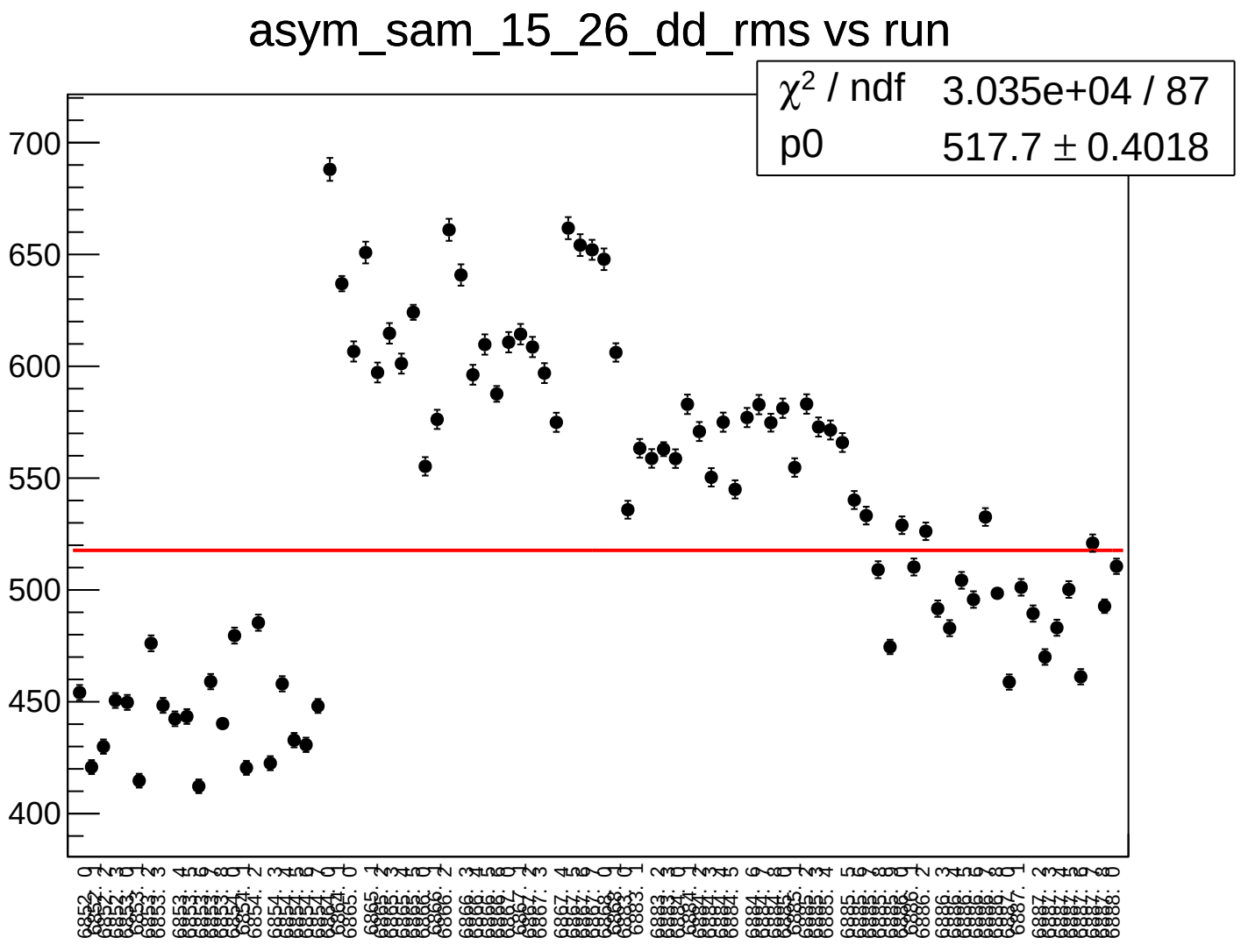

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.293e+04 / 87
p0 76.85 ± 0.05951
150
140
130
120
110
100
90
80
70
60

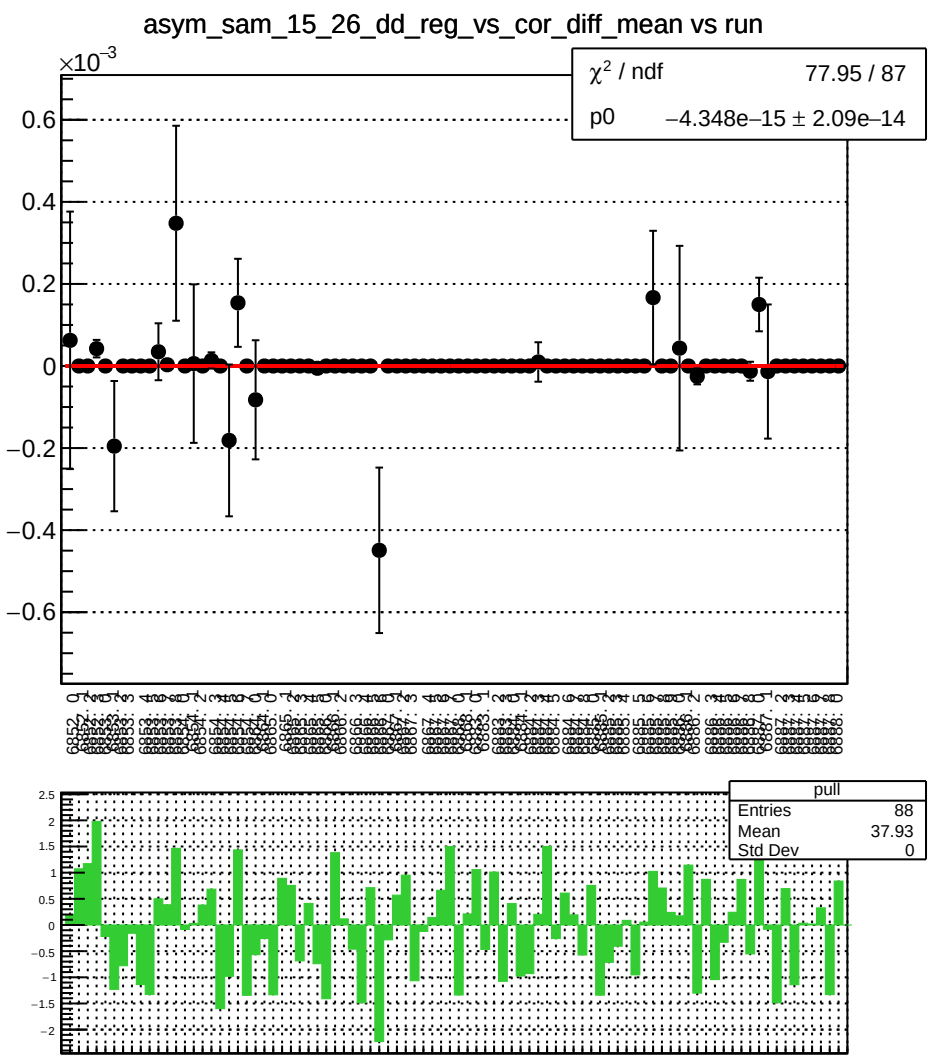

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.87 / 87
p0 981.8 ± 550.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 88
Mean 284.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.005894
Std Dev 0.8846
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

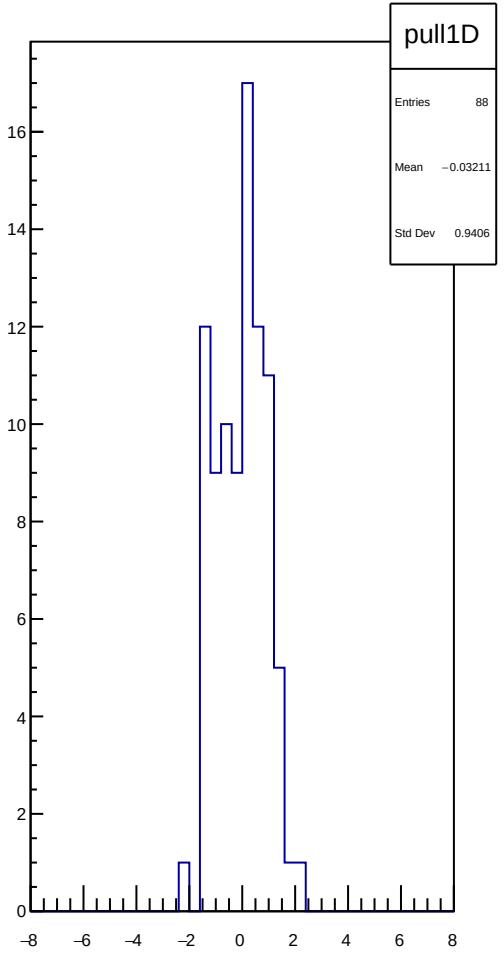

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.221e+04 / 87
p0 501.5 ± 0.3894
650
600
550
500
450
400

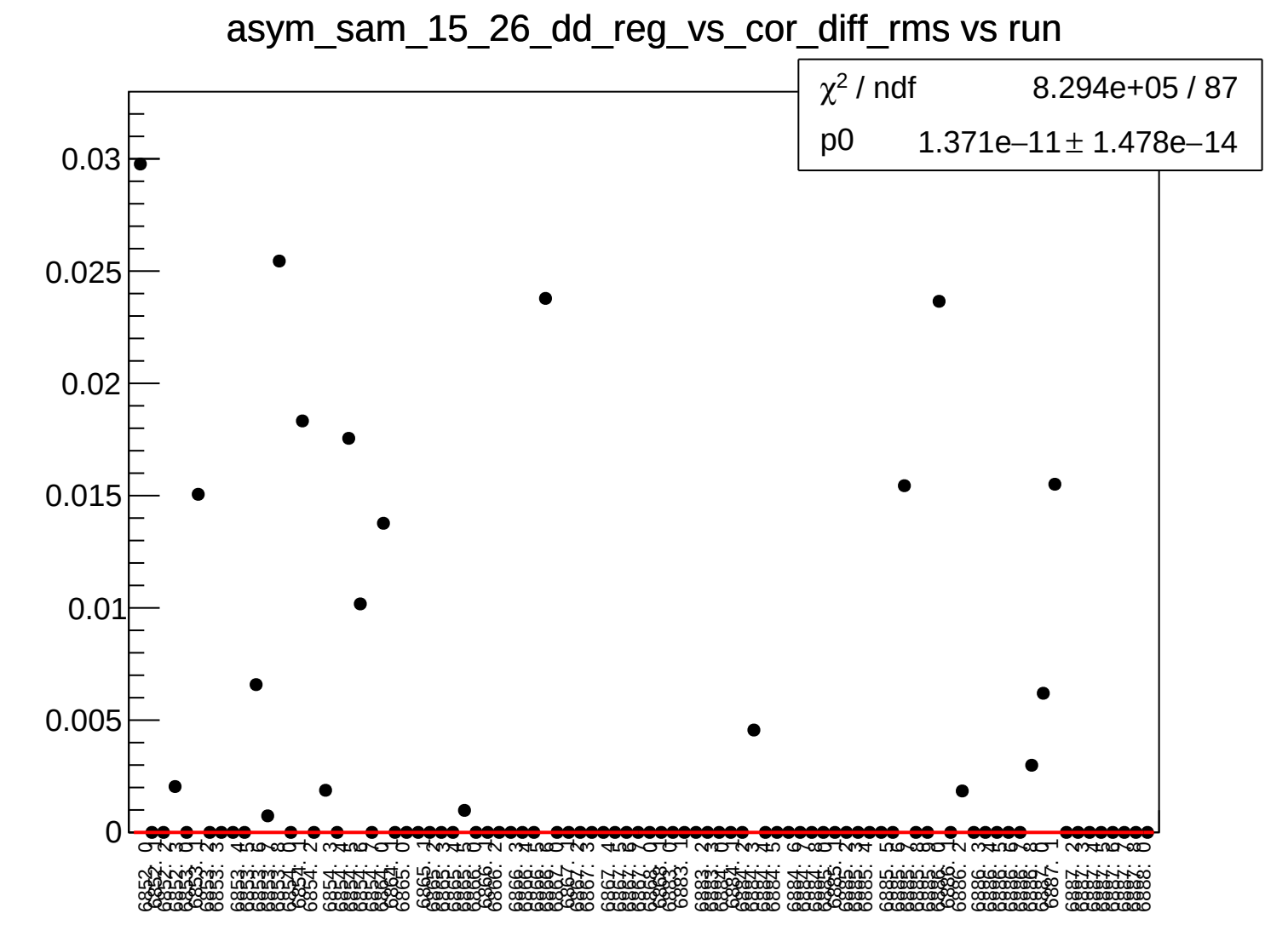

asym_sam_15_26_dd_mean vs run
χ² / ndf 67.29 / 87
p0 −945.6 ± 568.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 88
Mean 434.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

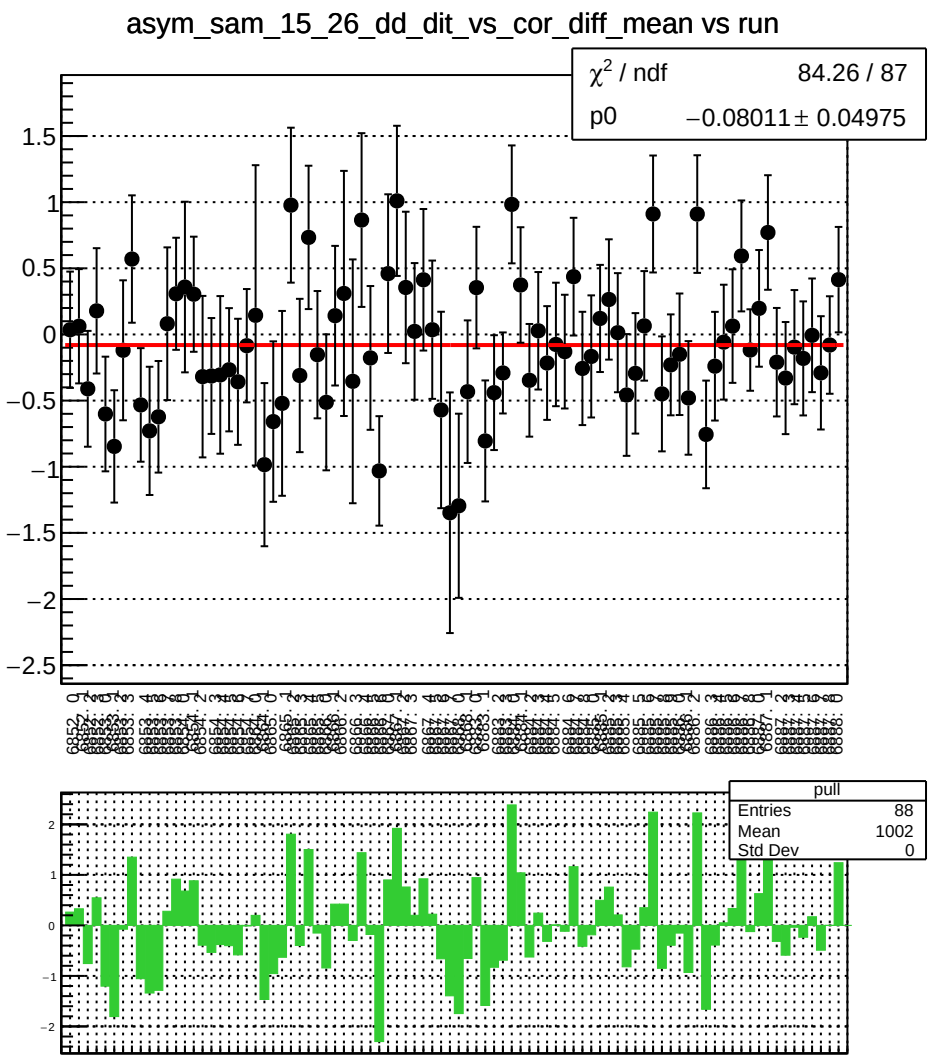

pull1D
Entries 88
Mean 0.003962
Std Dev 0.8744
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

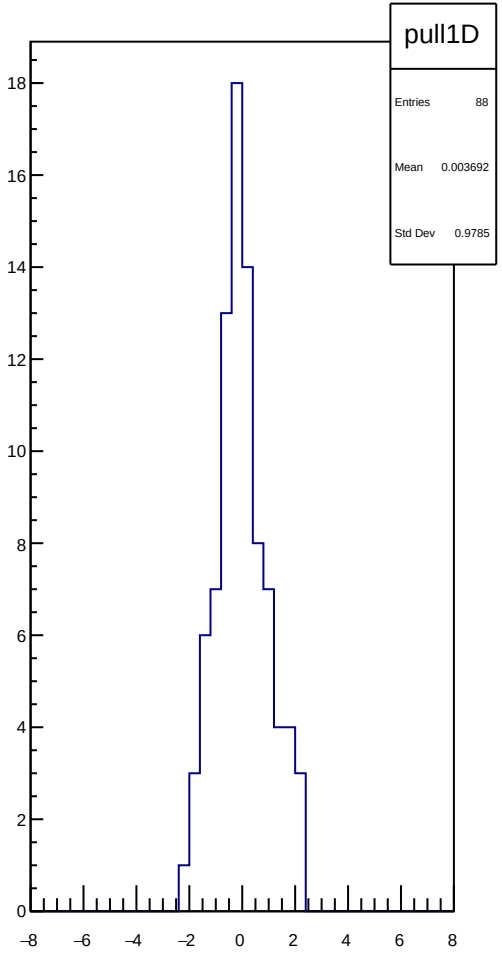

asym_sam_15_26_dd_rms vs run
χ² / ndf 3.035e+04 / 87
p0 517.7 ± 0.4018
700
650
600
550
500
450
400

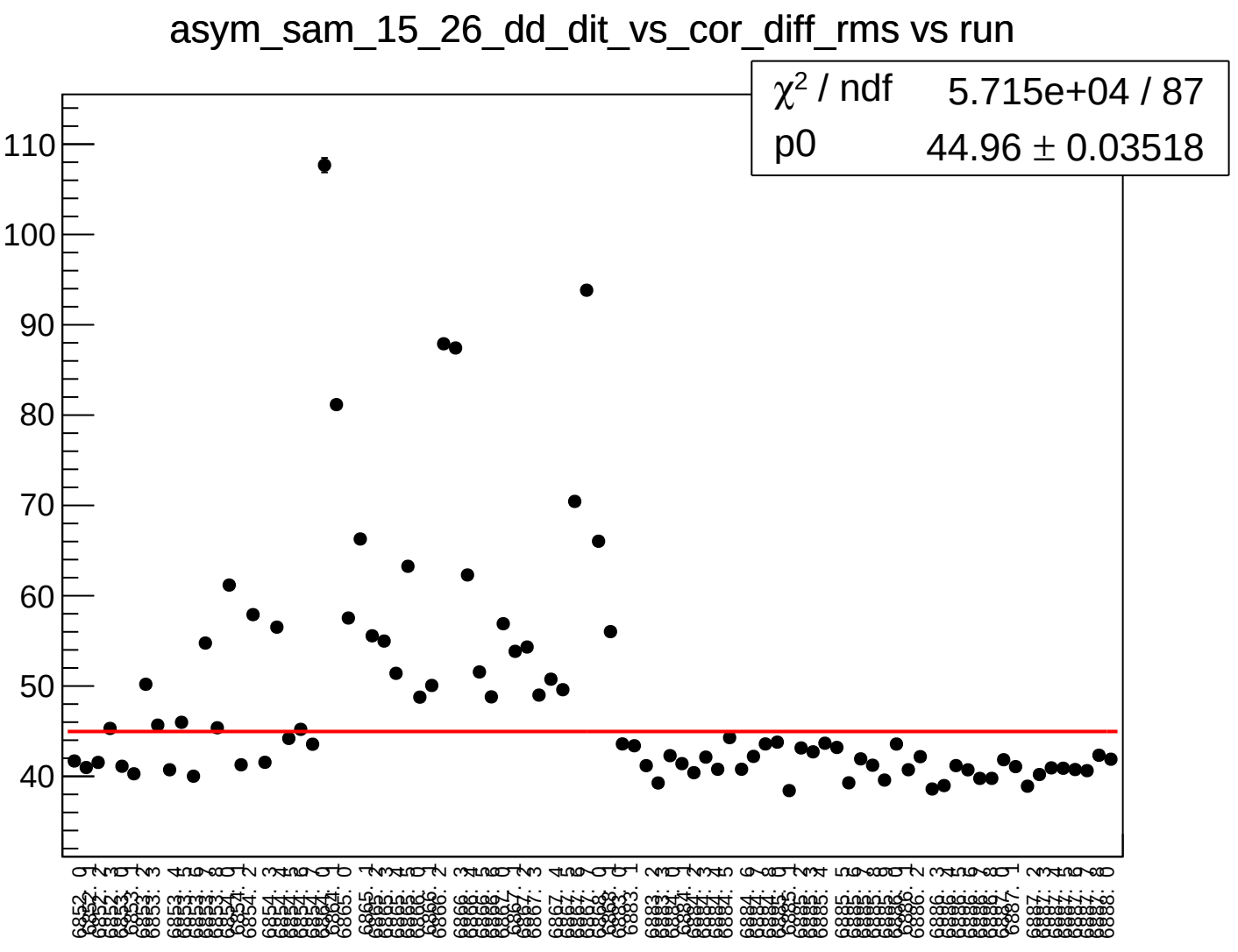

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 77.95 / 87
p0 −4.348e−15 ± 2.09e−14
pull
Entries 88
Mean 37.93
Std Dev 0

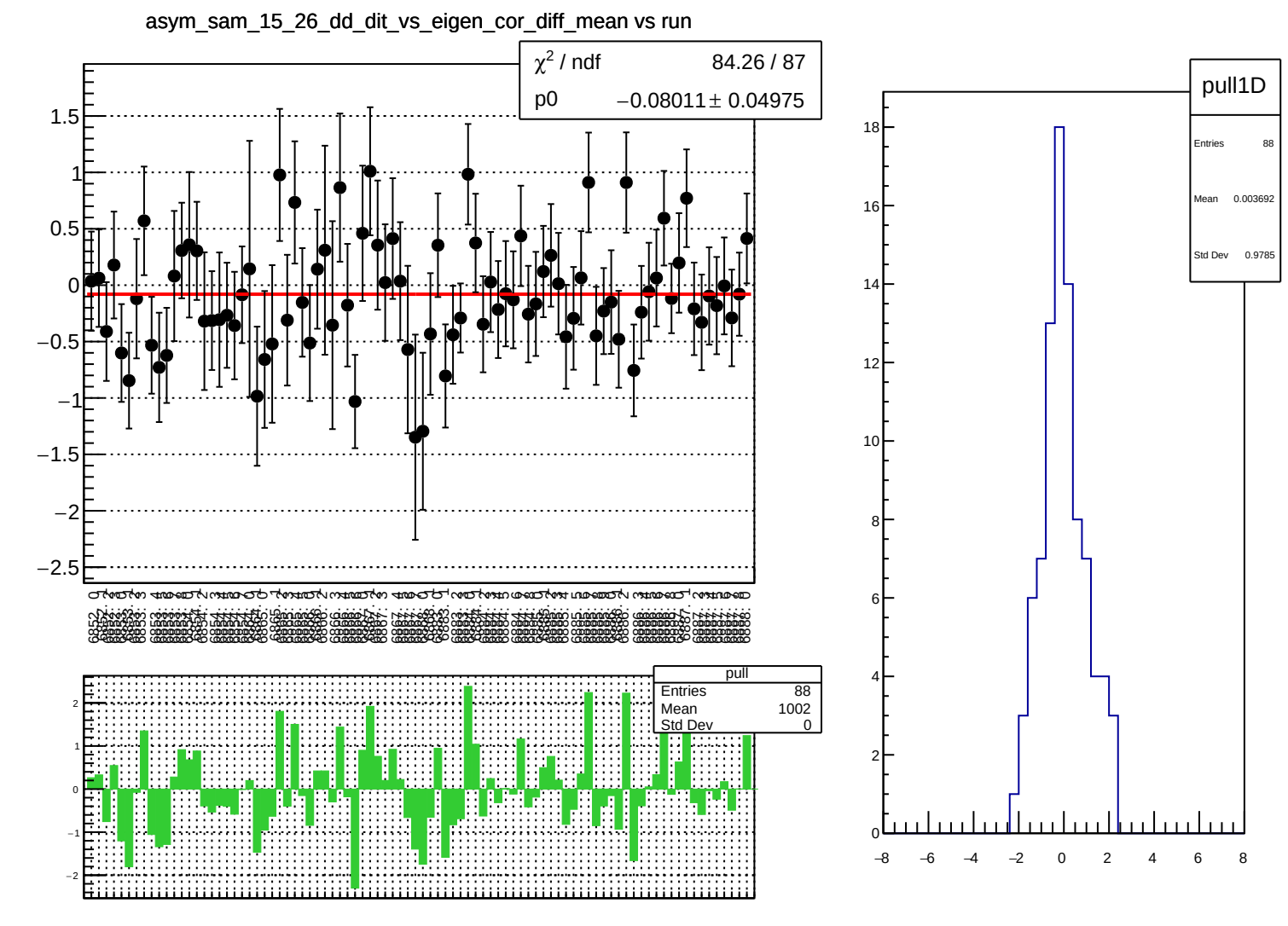

pull1D
Entries 88
Mean −0.03211
Std Dev 0.9406

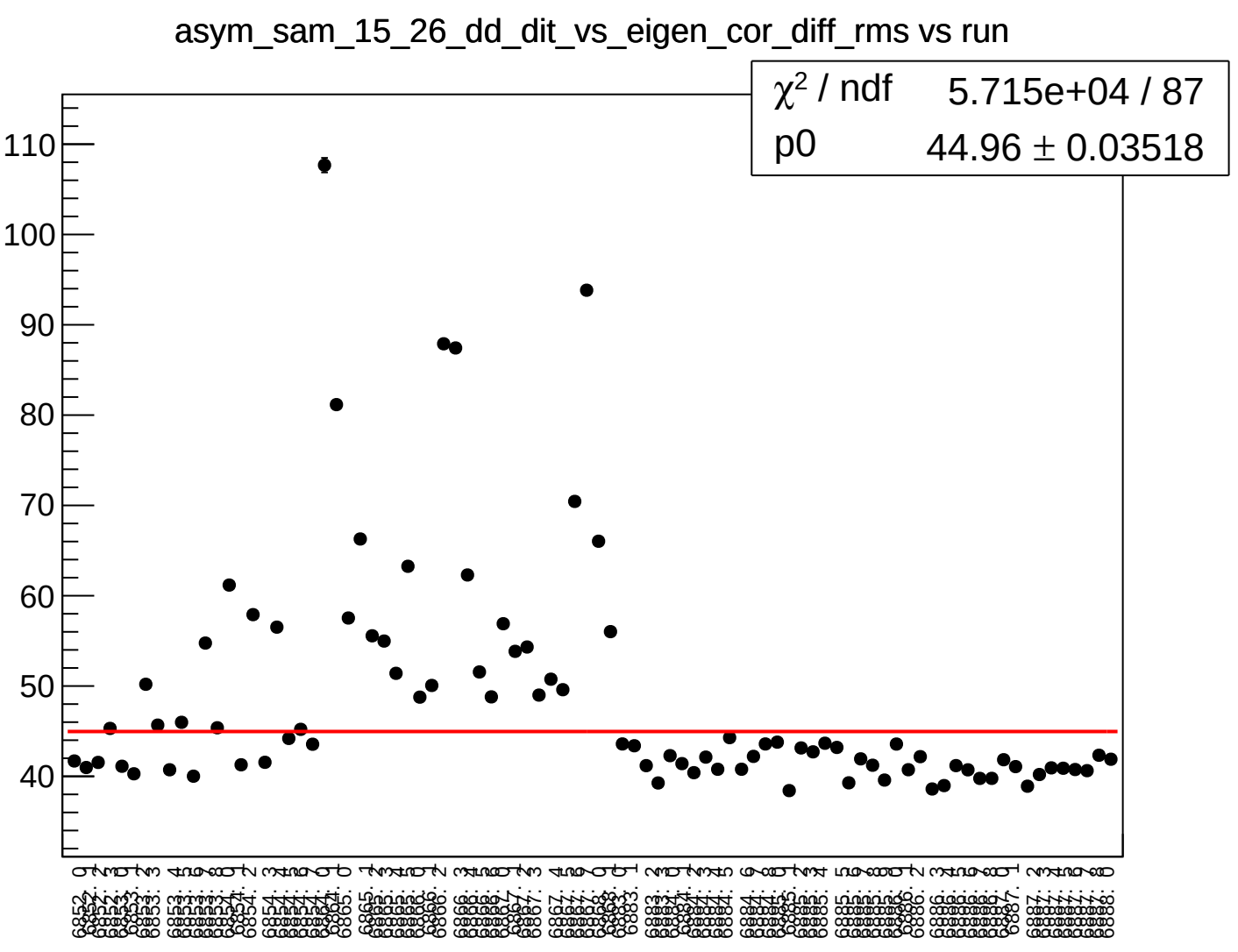

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.294e+05 / 87
p0 1.371e−11 ± 1.478e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

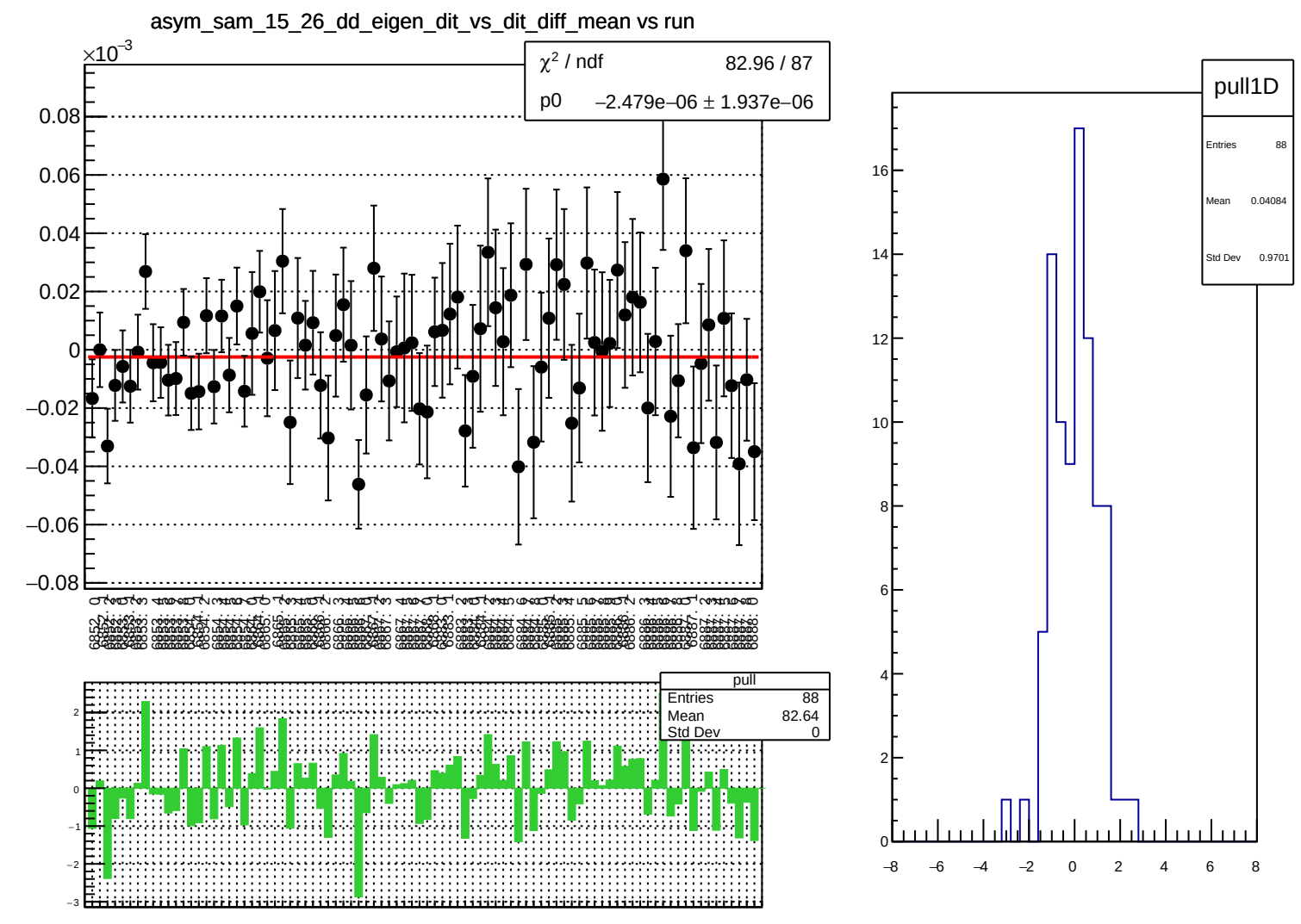

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.26 / 87
p0 −0.08011 ± 0.04975
pull
Entries 88
Mean 1002
Std Dev 0

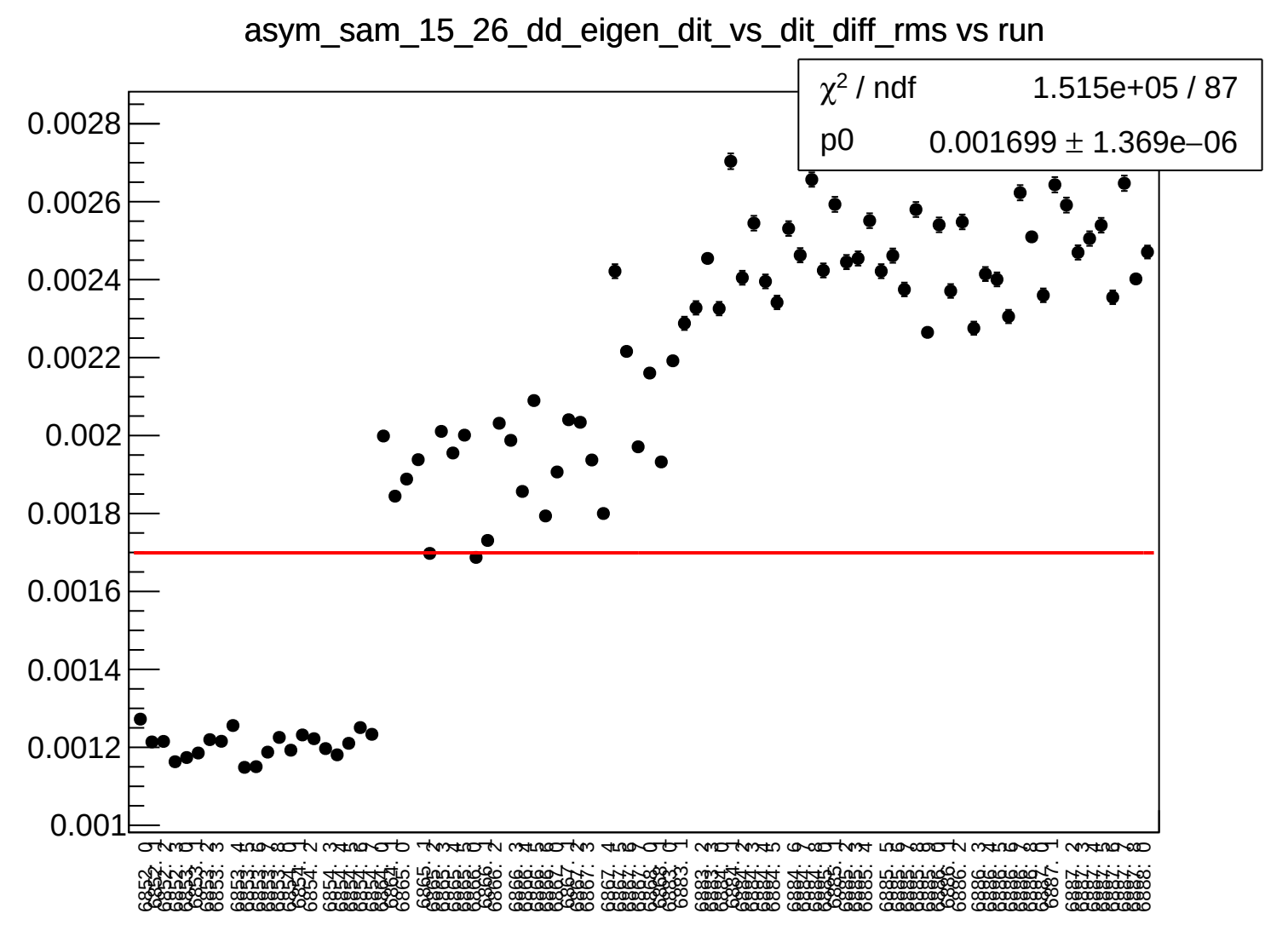

pull1D
Entries 88
Mean 0.003692
Std Dev 0.9785

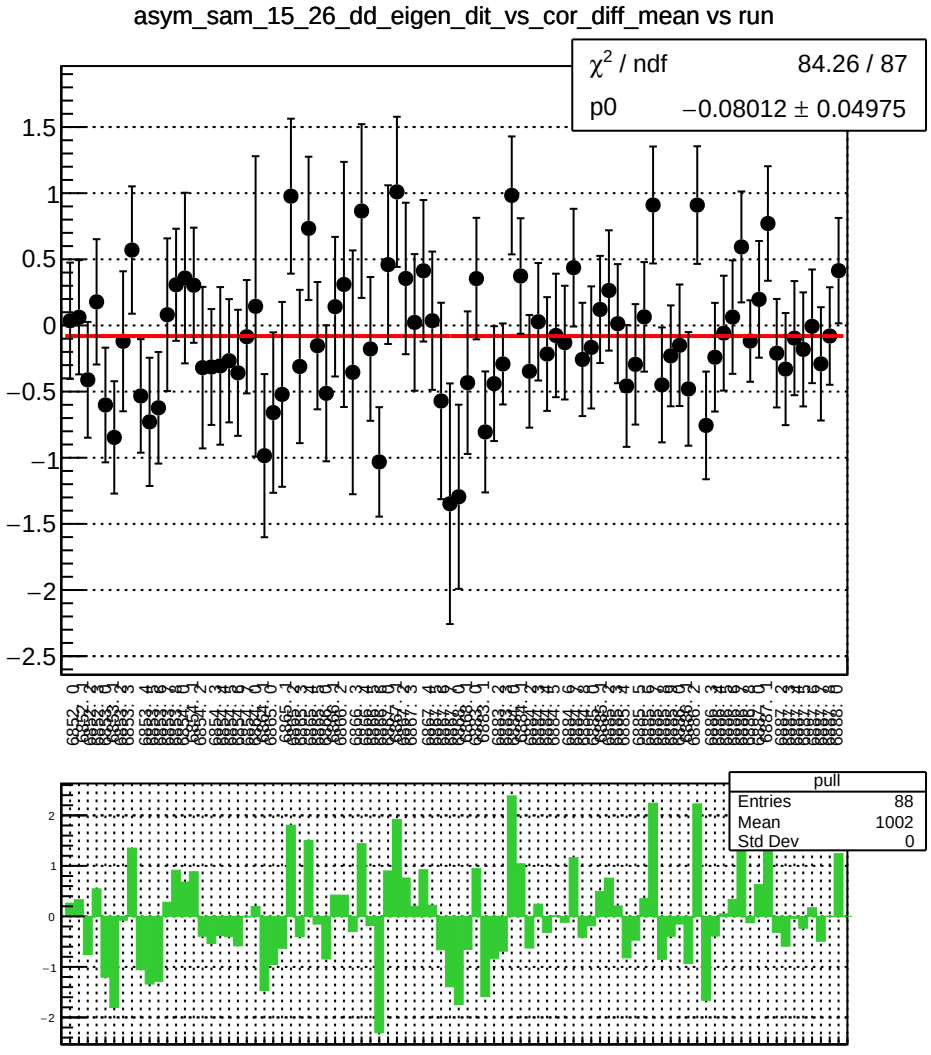

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.715e+04 / 87
p0 44.96 ± 0.03518
110
100
90
80
70
60
50
40

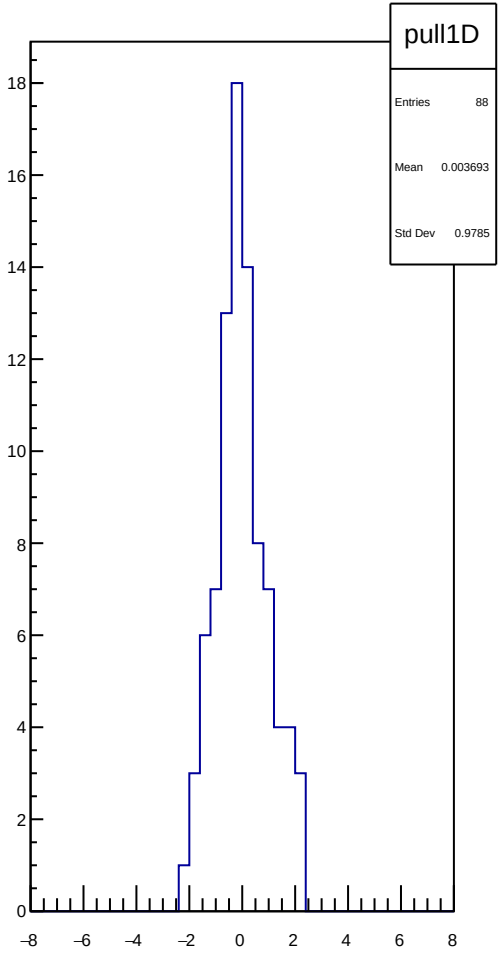

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.26 / 87
p0 −0.08011 ± 0.04975
pull
Entries 88
Mean 1002
Std Dev 0
pull1D
Entries 88
Mean 0.003692
Std Dev 0.9785

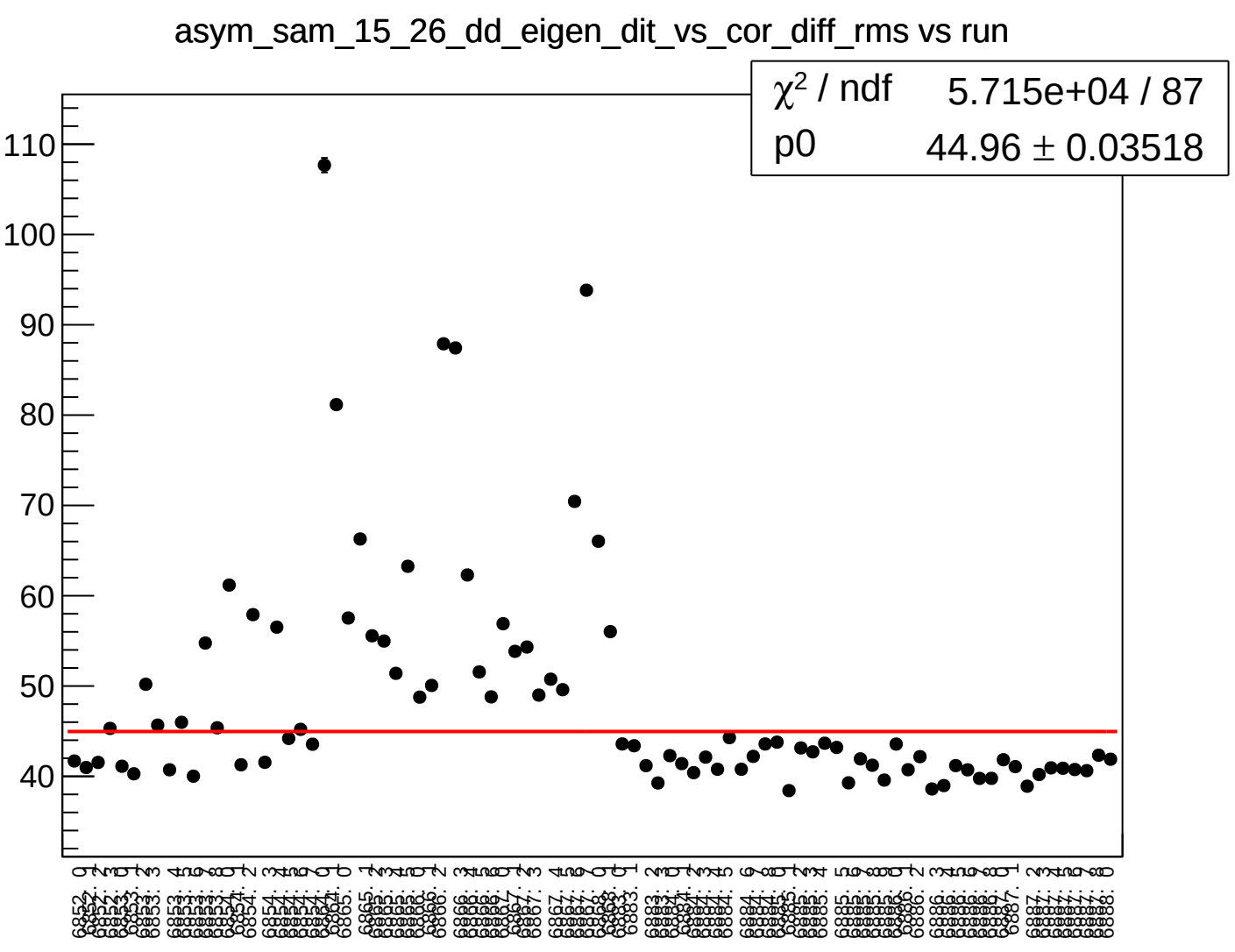

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.715e+04 / 87
p0 44.96 ± 0.03518
110
100
90
80
70
60
50
40

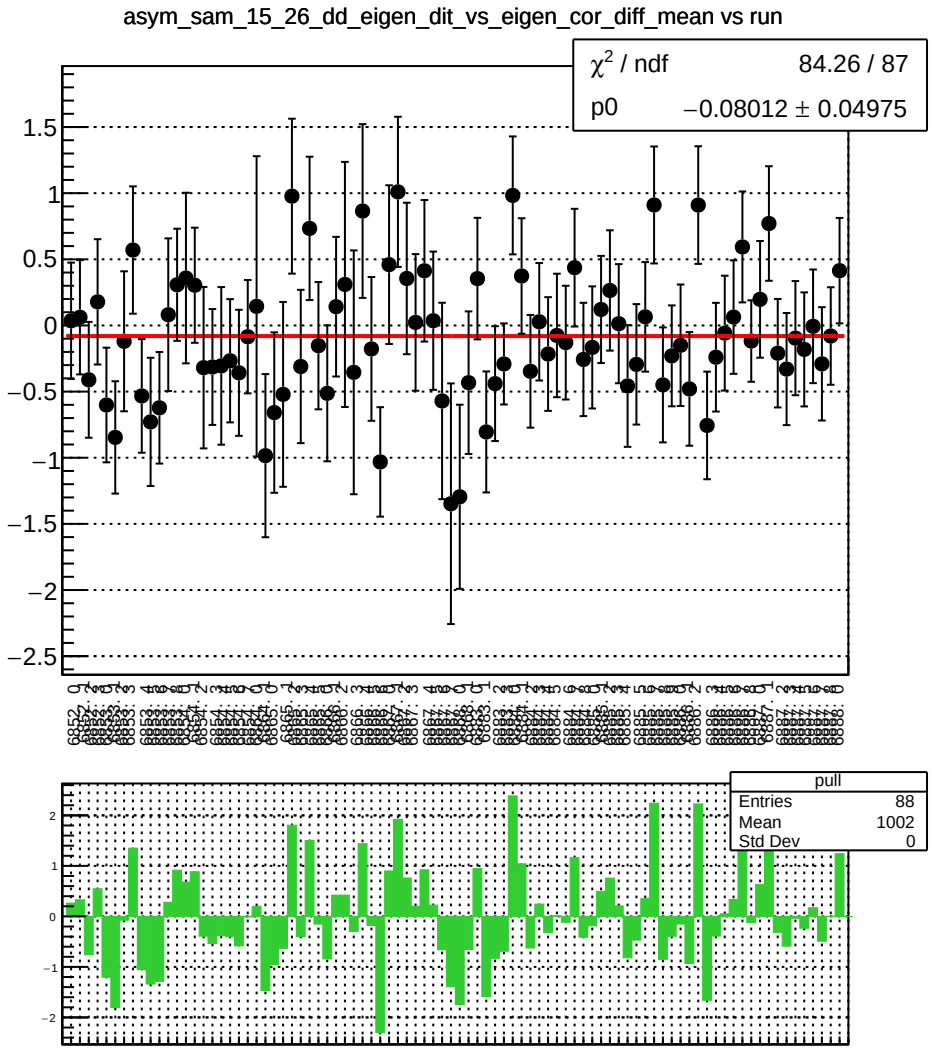

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.96 / 87
p0 −2.479e−06 ± 1.937e−06
pull
Entries 88
Mean 82.64
Std Dev 0
pull1D
Entries 88
Mean 0.04084
Std Dev 0.9701

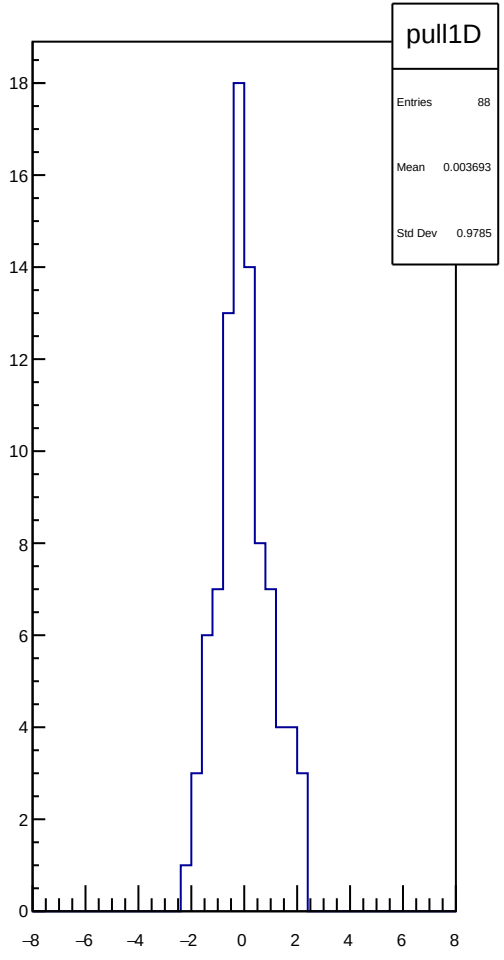

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.515e+05 / 87
p0 0.001699 ± 1.369e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

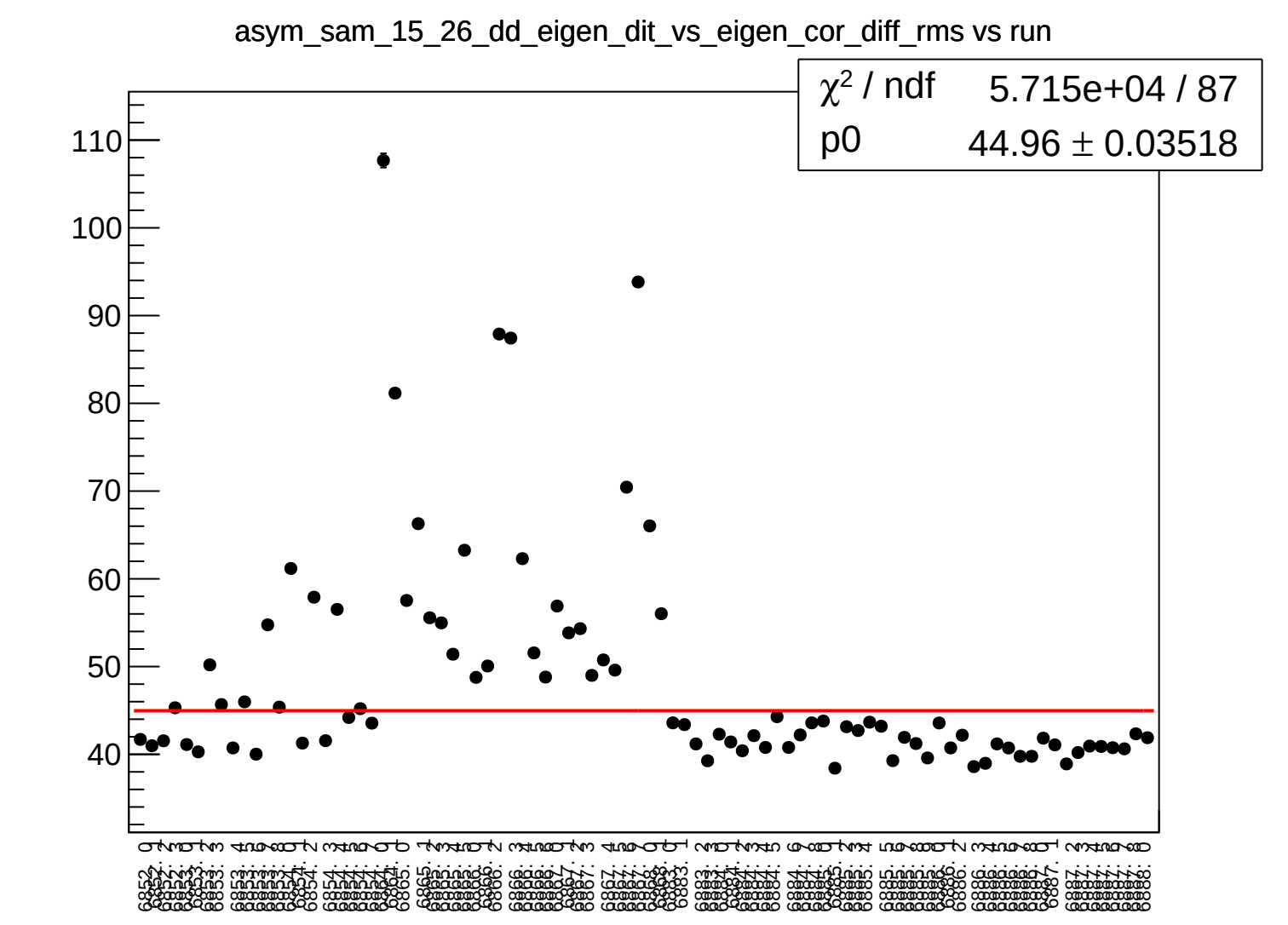

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.26 / 87
p0 −0.08012 ± 0.04975
pull
Entries 88
Mean 1002
Std Dev 0

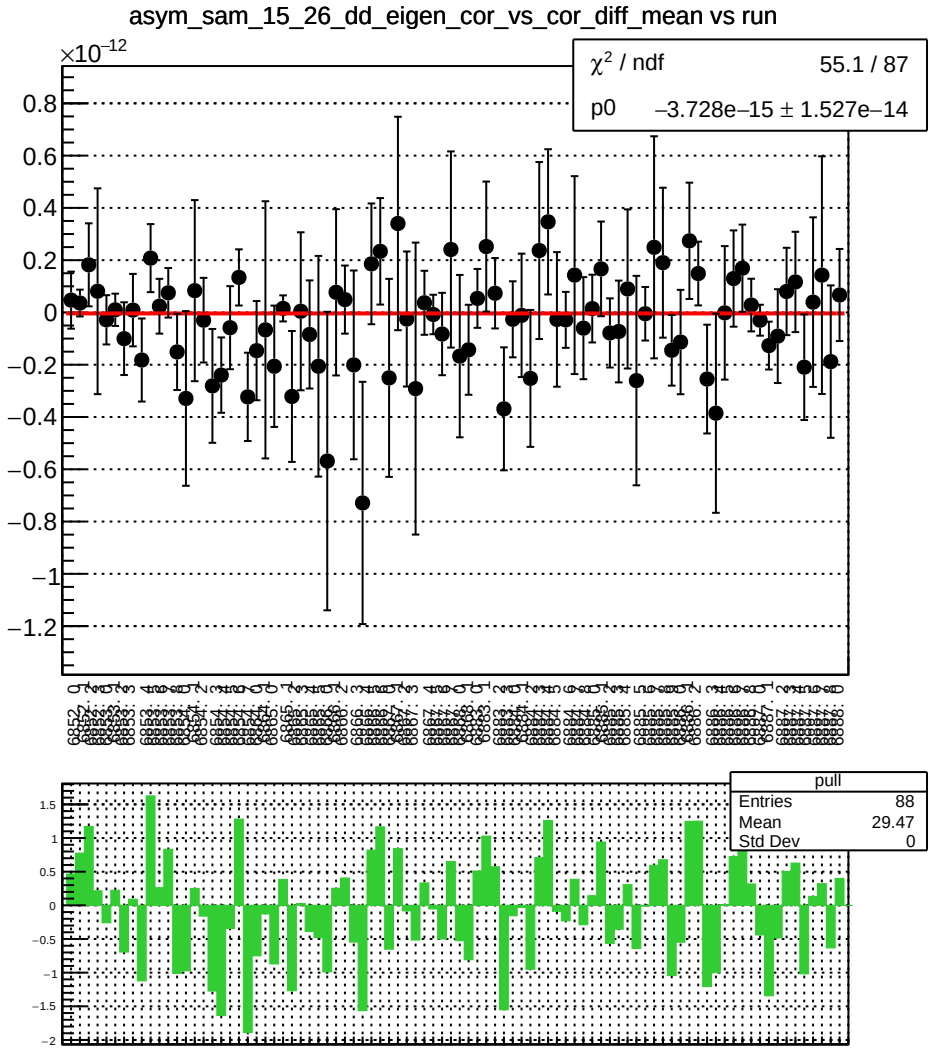

pull1D
Entries 88
Mean 0.003693
Std Dev 0.9785

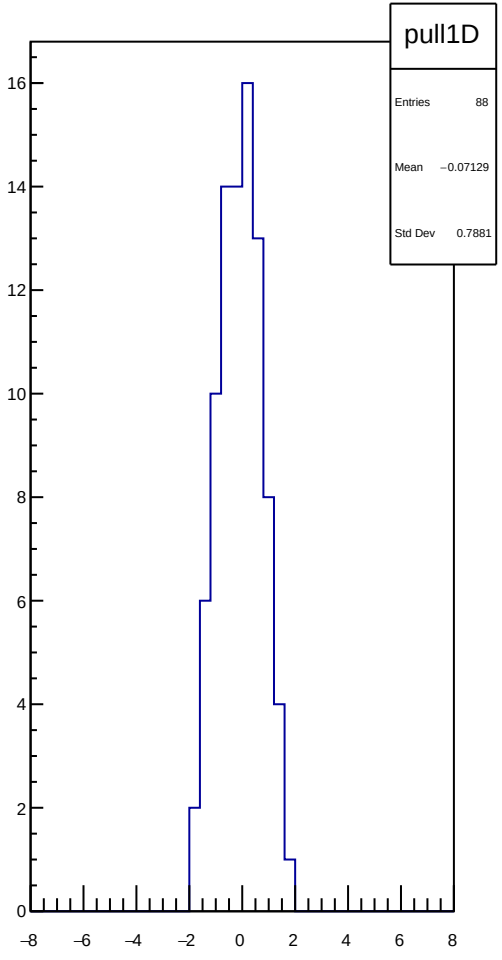

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.715e+04 / 87
p0 44.96 ± 0.03518
110
100
90
80
70
60
50
40

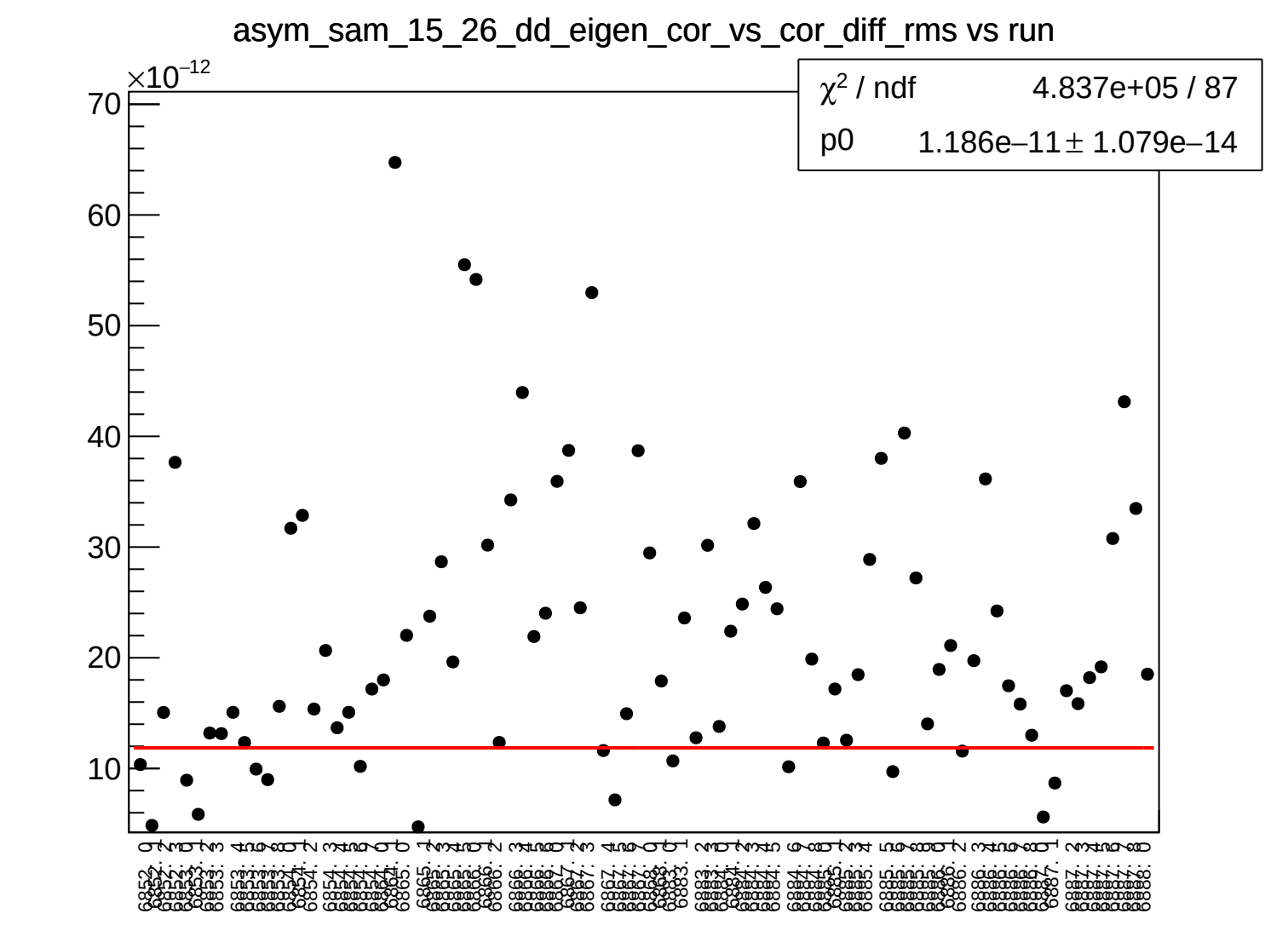

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.26 / 87
p0 −0.08012 ± 0.04975
pull
Entries 88
Mean 1002
Std Dev 0

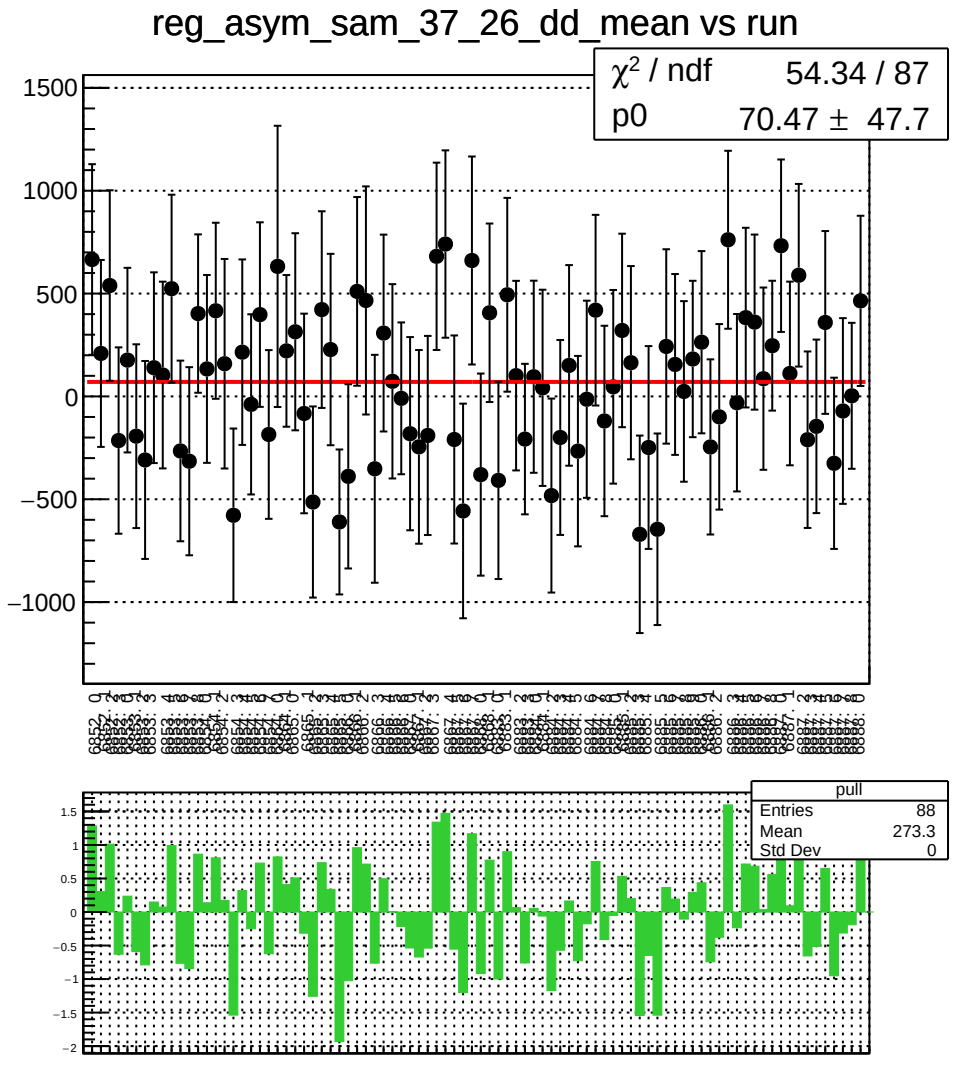

pull1D
Entries 88
Mean 0.003693
Std Dev 0.9785

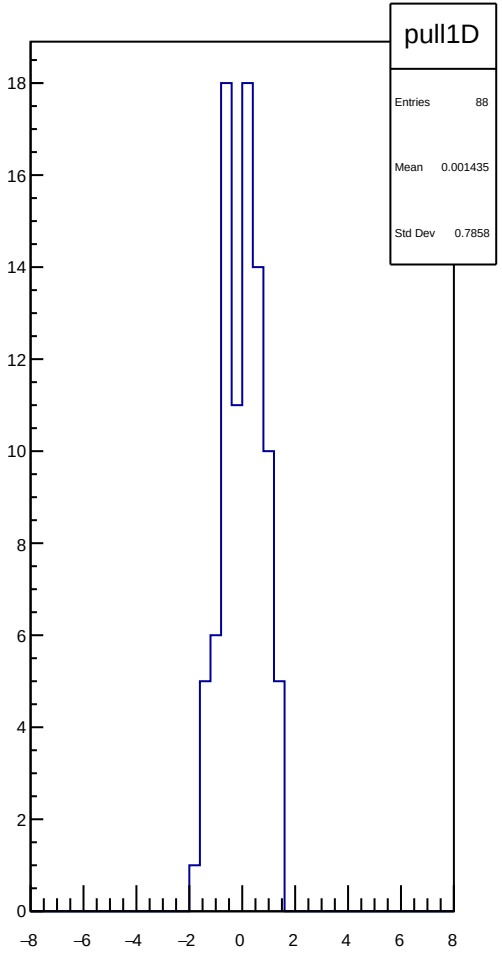

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.715e+04 / 87
p0 44.96 ± 0.03518
110
100
90
80
70
60
50
40

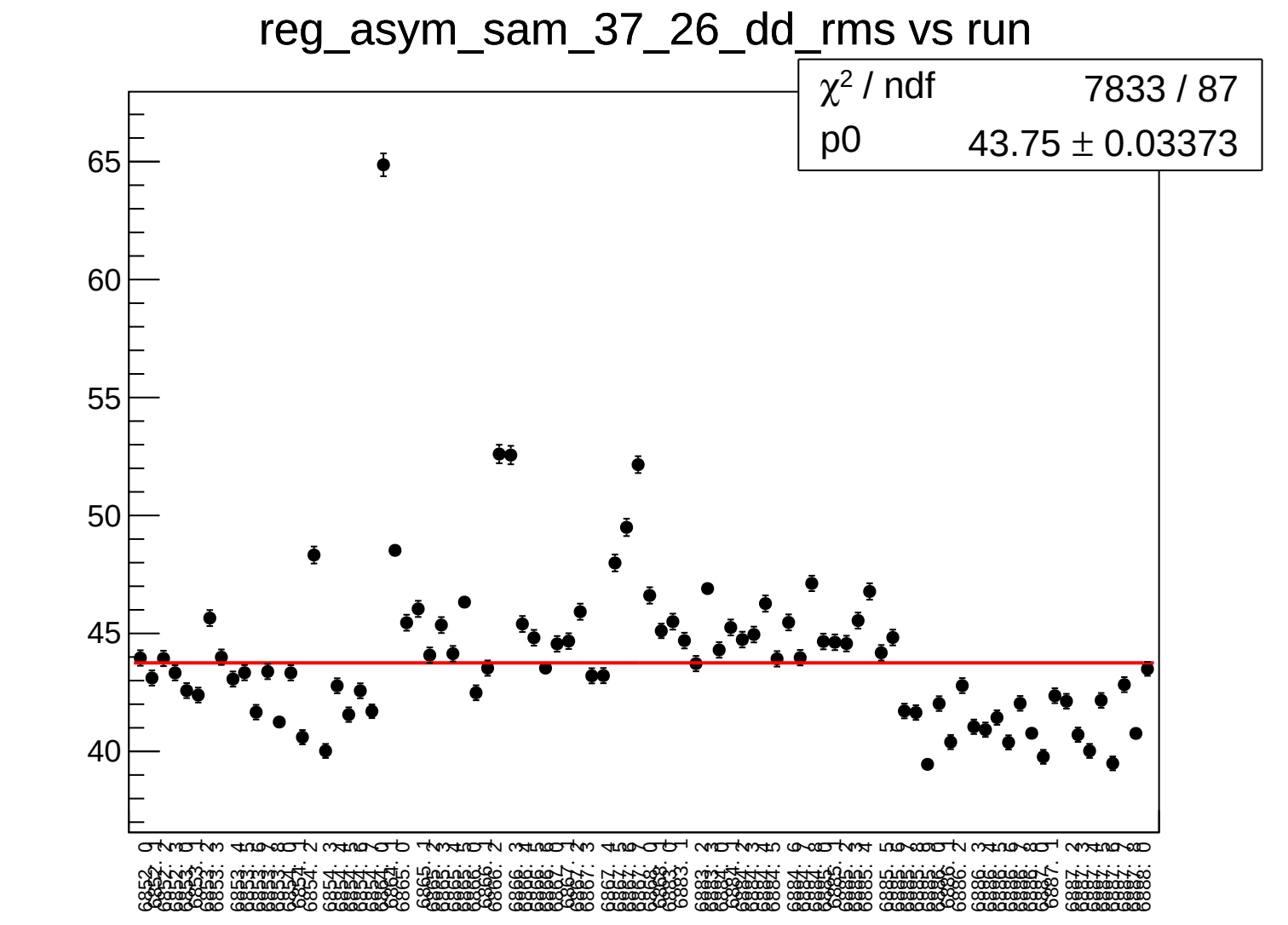

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 55.1 / 87
p0 −3.728e−15 ± 1.527e−14
pull
Entries 88
Mean 29.47
Std Dev 0

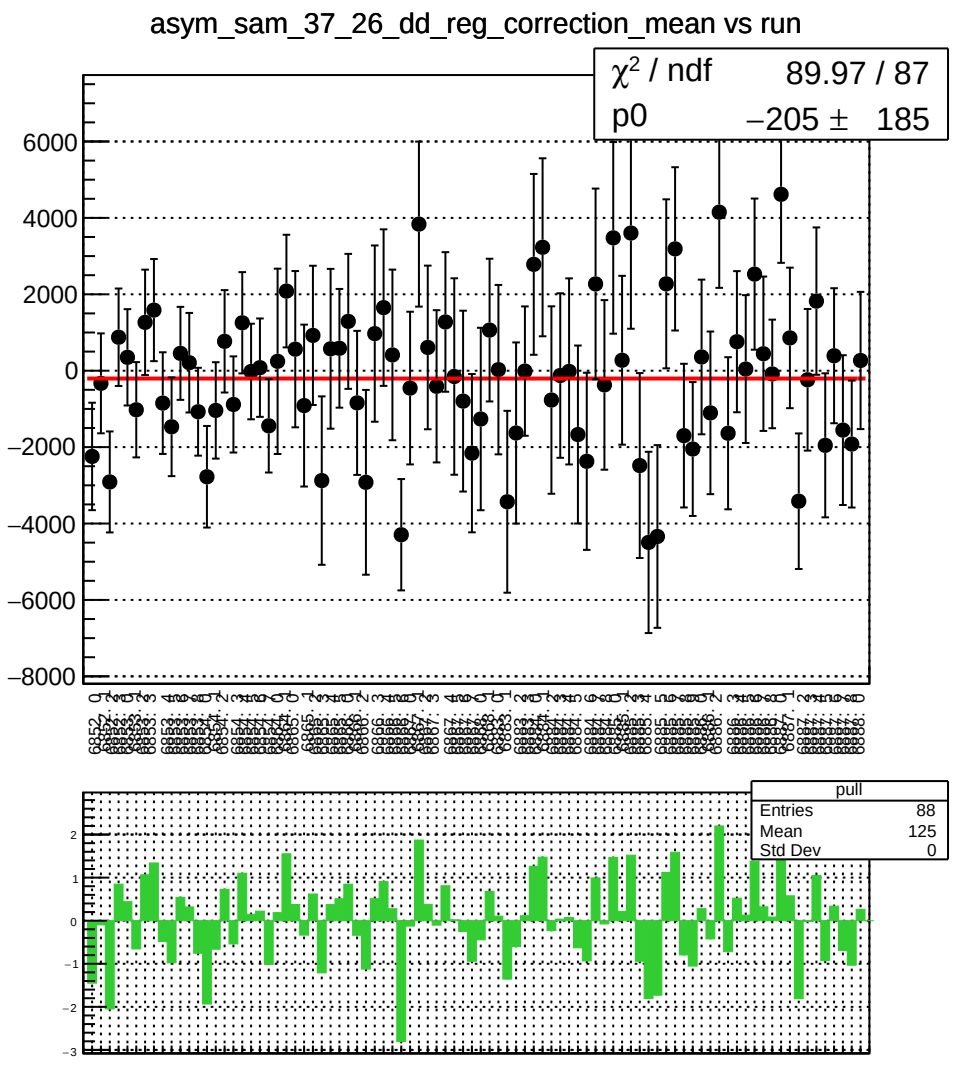

pull1D
Entries 88
Mean −0.07129
Std Dev 0.7881

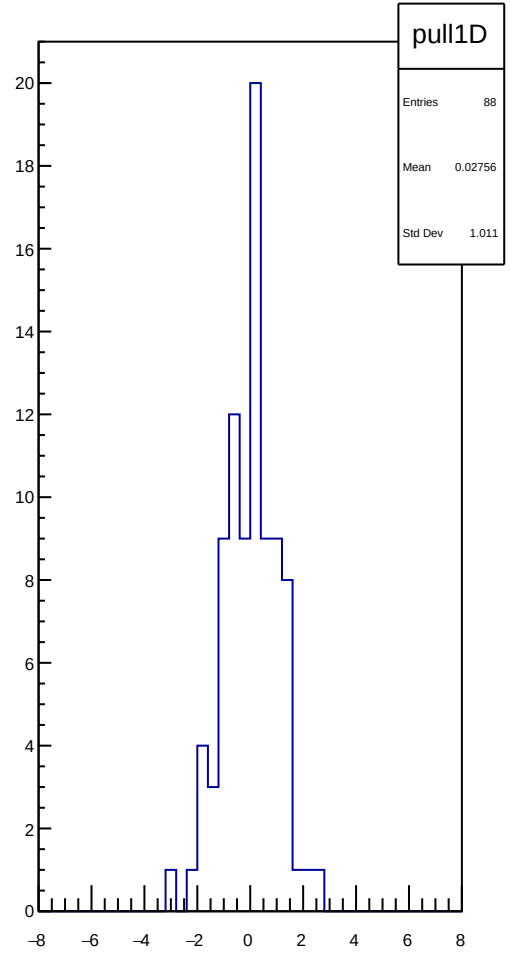

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 4.837e+05 / 87
p0 1.186e−11 ± 1.079e−14

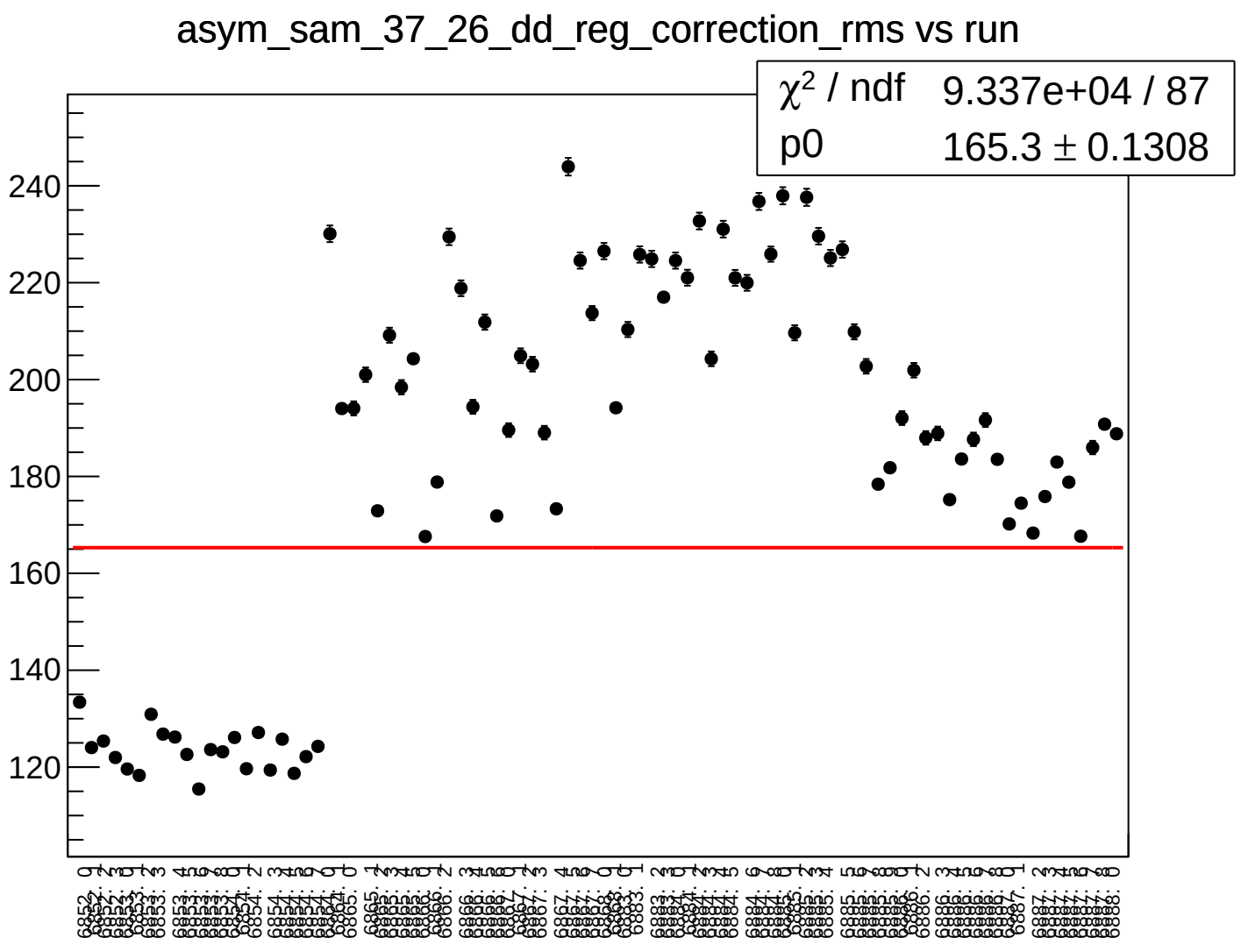

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 54.34 / 87
p0 70.47 ± 47.7
pull
Entries 88
Mean 273.3
Std Dev 0

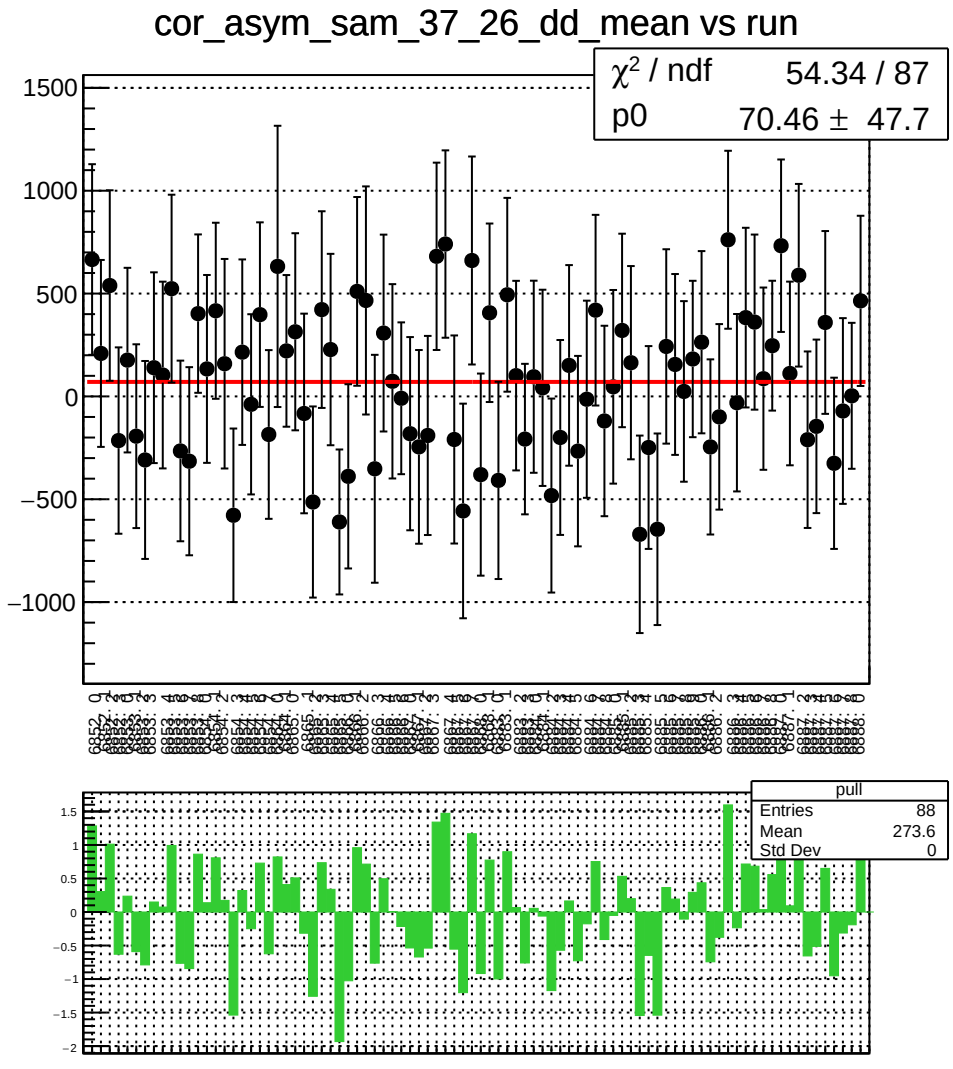

pull1D
Entries 88
Mean 0.001435
Std Dev 0.7858

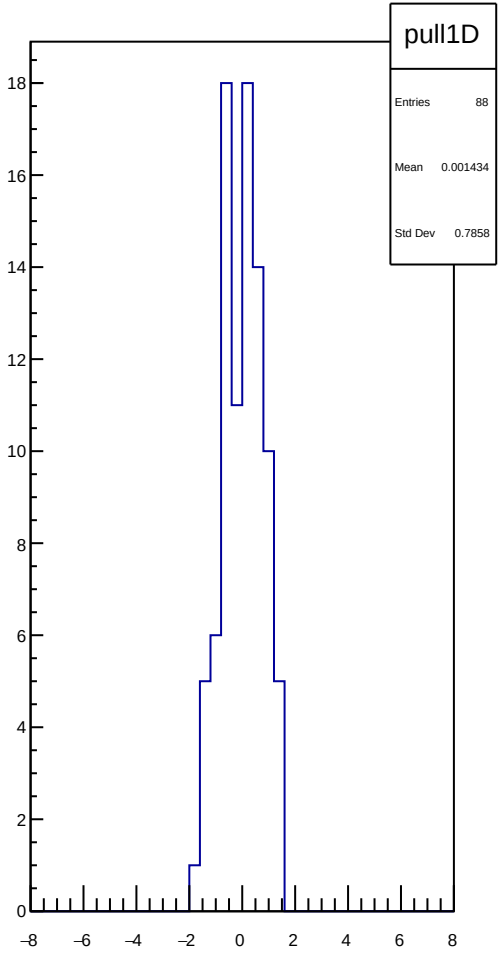

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 7833 / 87
p0 43.75 ± 0.03373
65
60
55
50
45
40

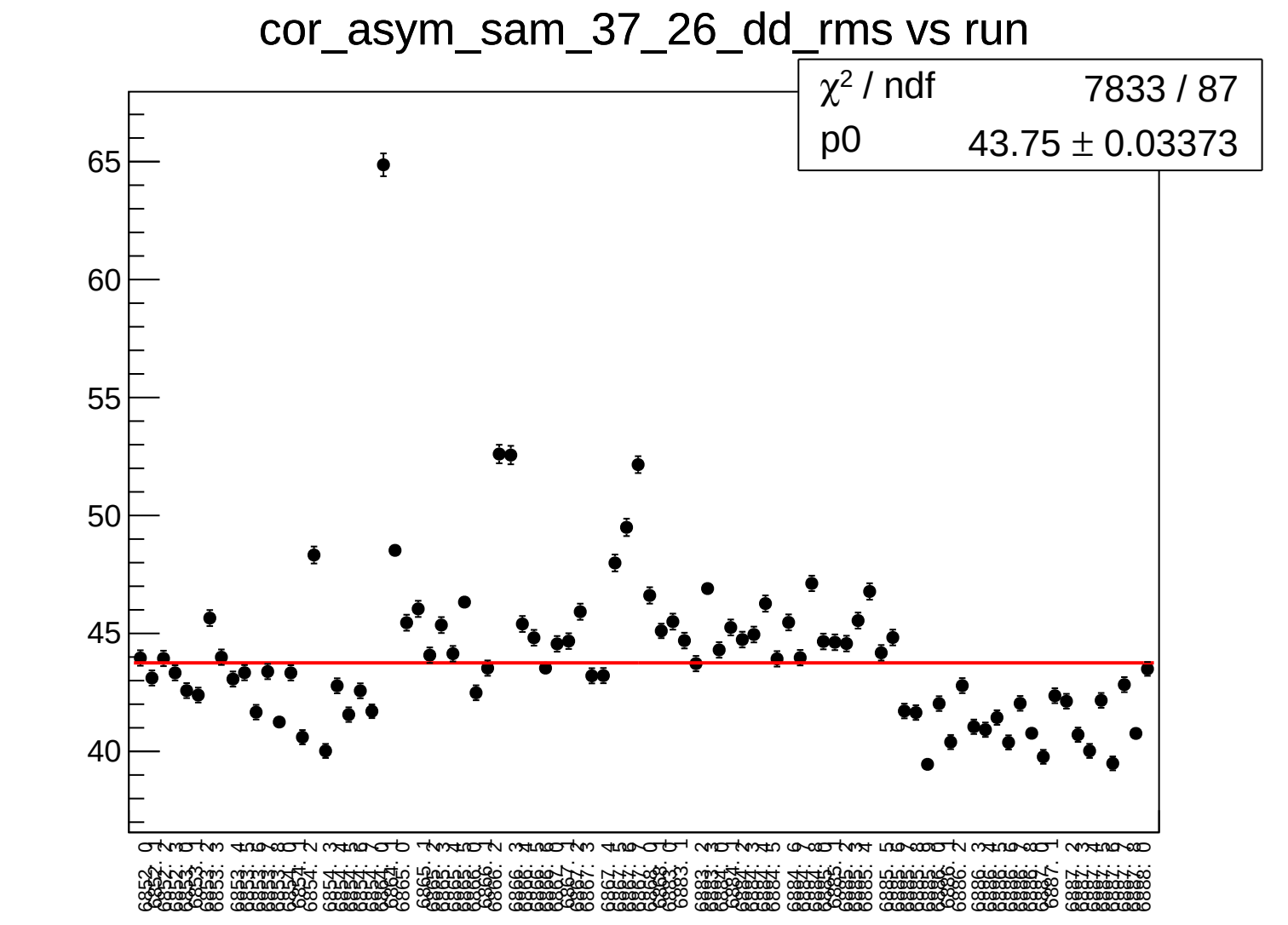

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 89.97 / 87
p0 −205 ± 185
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean 125
Std Dev 0
2
1
0
−1
−2
−3

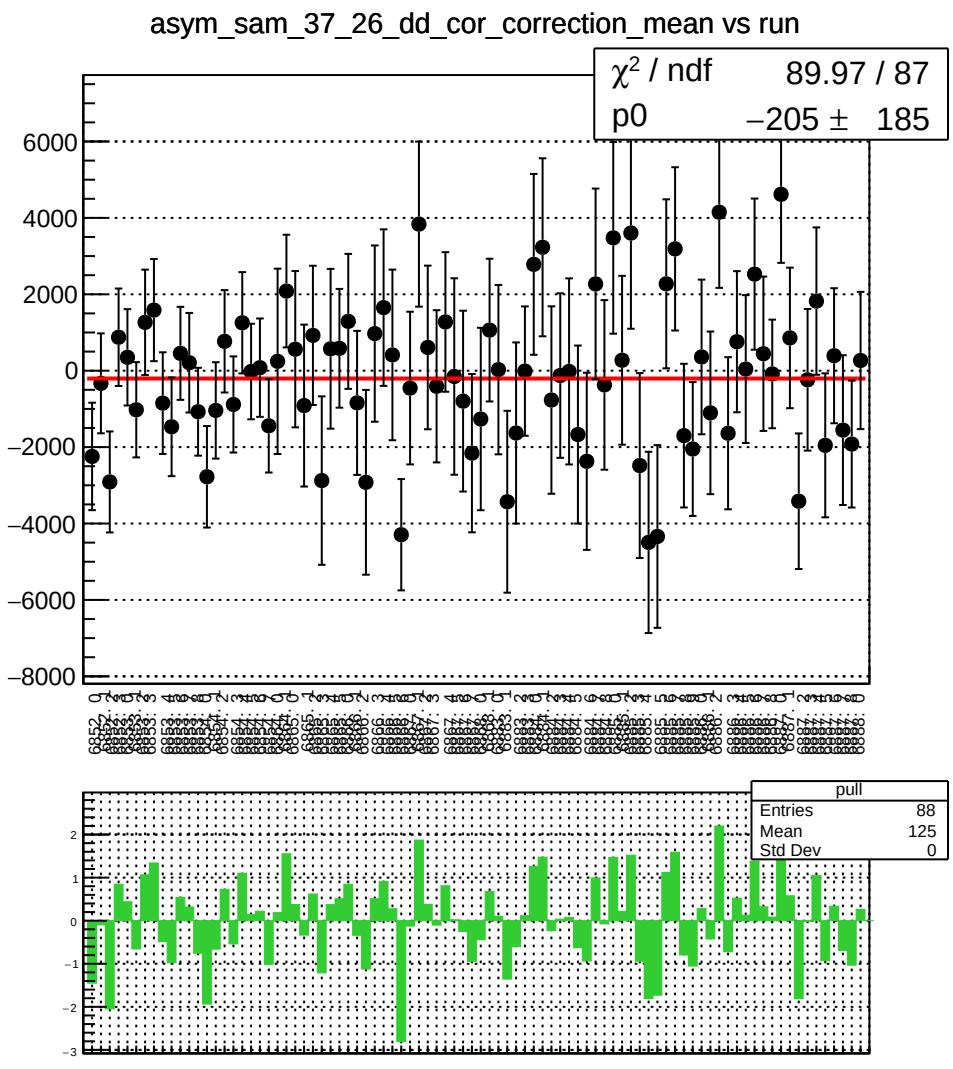

pull1D
Entries 88
Mean 0.02756
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

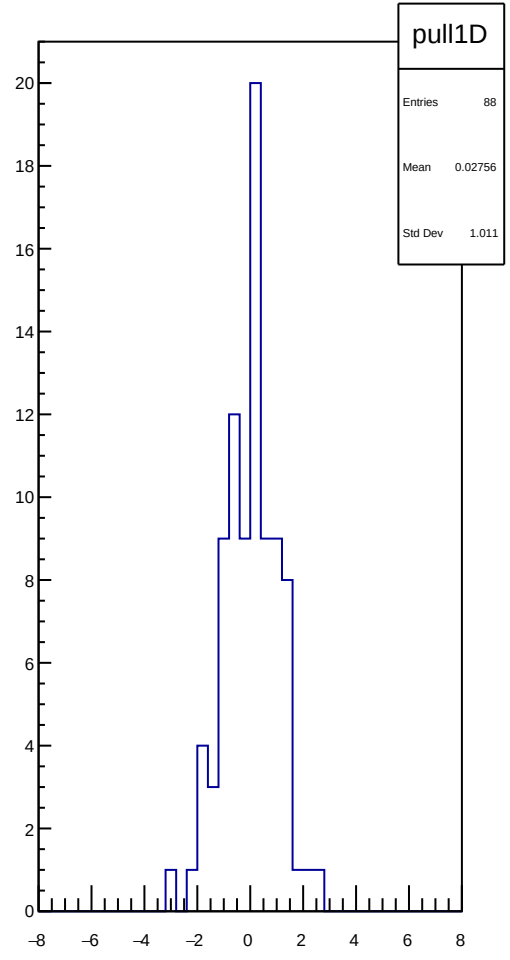

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 9.337e+04 / 87
p0 165.3 ± 0.1308
240
220
200
180
160
140
120

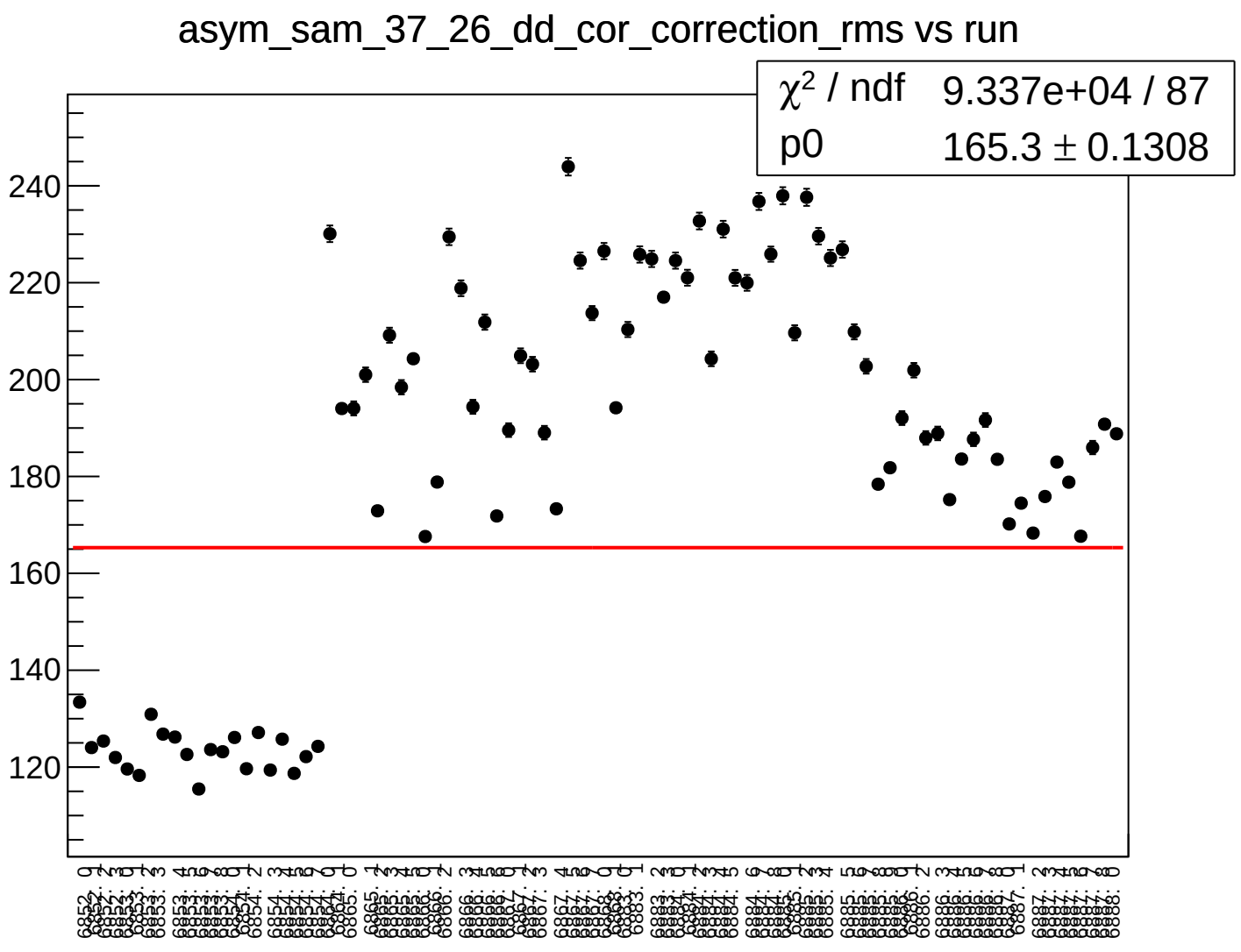

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 54.34 / 87
p0 70.46 ± 47.7
pull
Entries 88
Mean 273.6
Std Dev 0

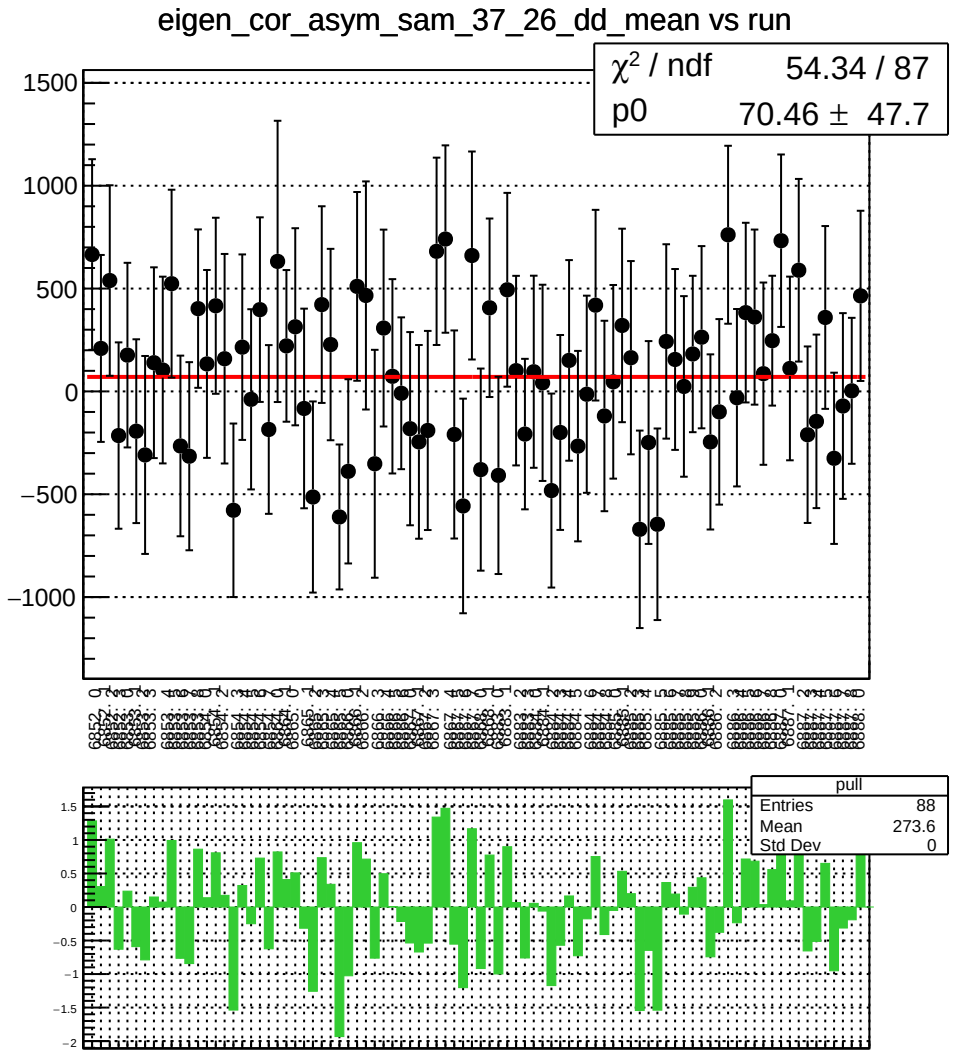

pull1D
Entries 88
Mean 0.001434
Std Dev 0.7858

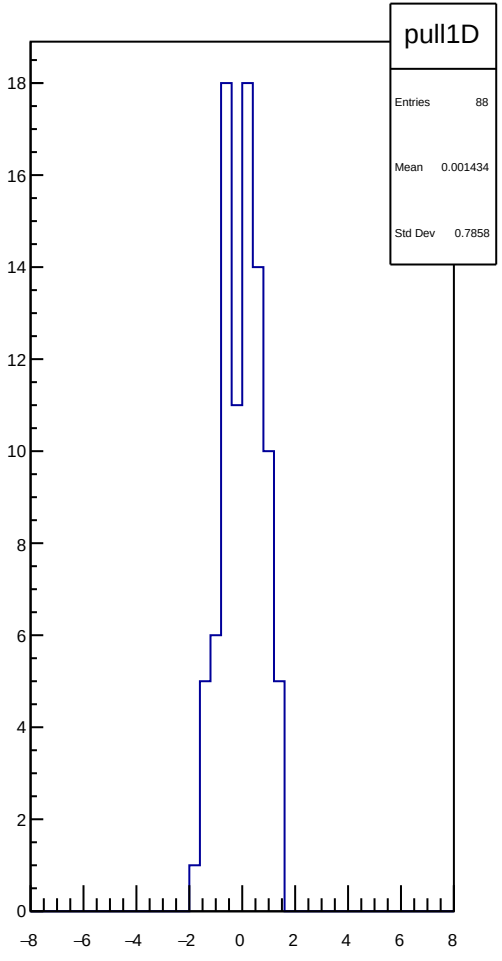

cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 7833 / 87
p0 43.75 ± 0.03373
65
60
55
50
45
40

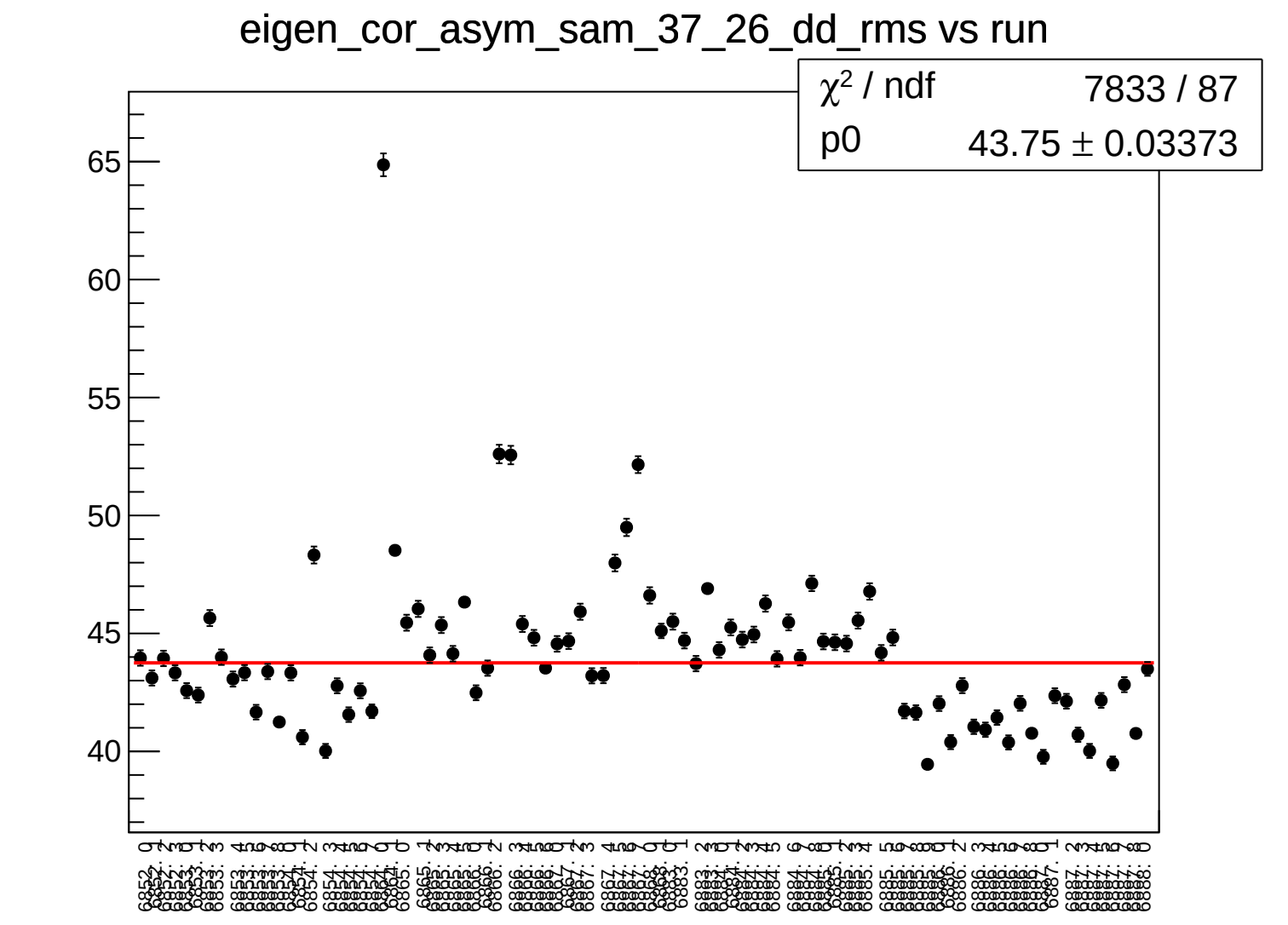

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 89.97 / 87
p0 −205 ± 185
pull
Entries 88
Mean 125
Std Dev 0

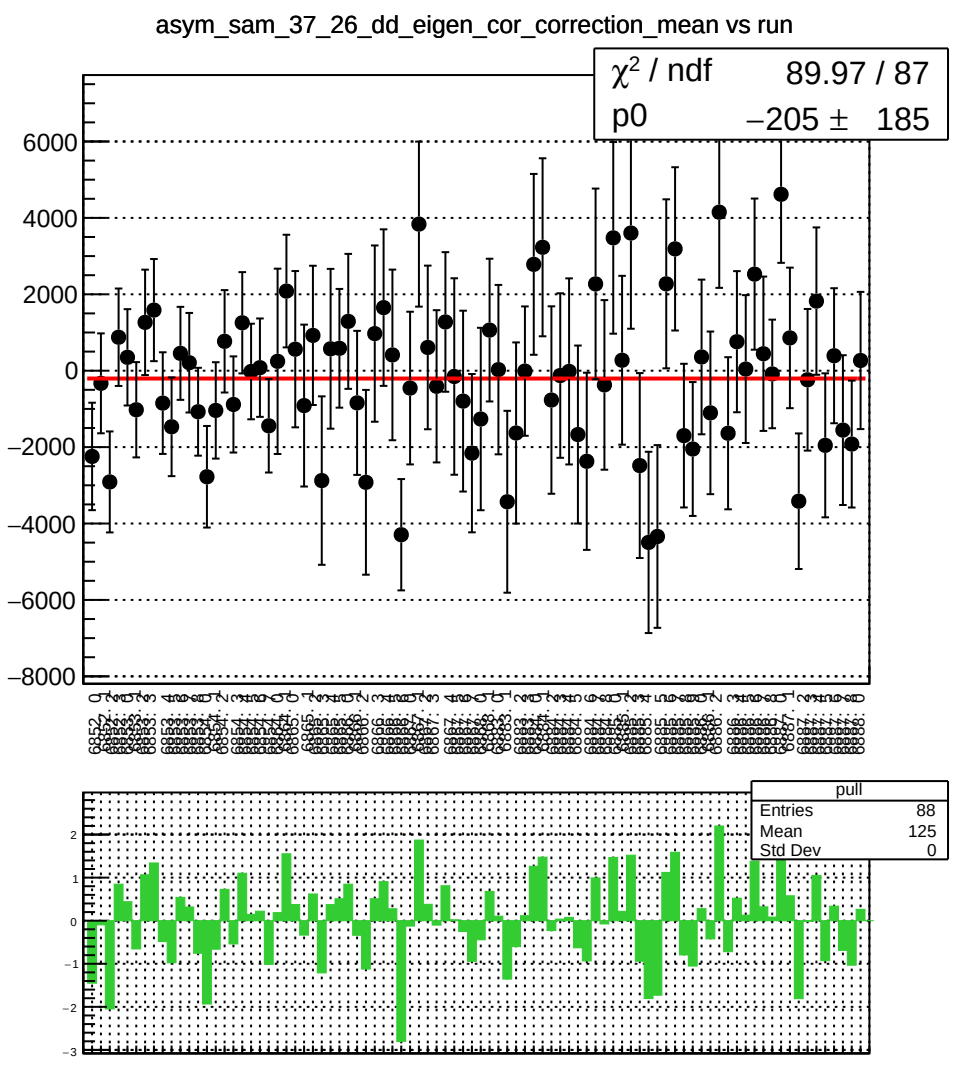

pull1D
Entries 88
Mean 0.02756
Std Dev 1.011

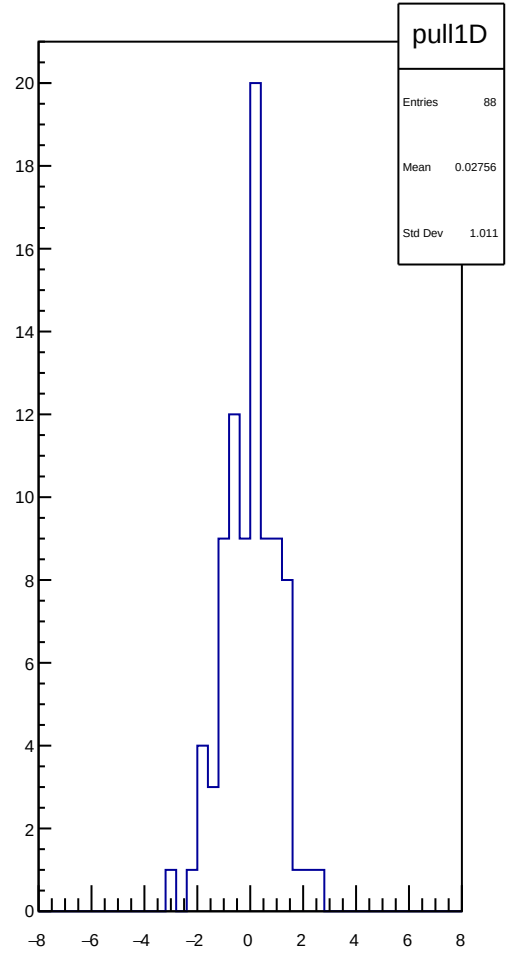

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 9.337e+04 / 87
p0 165.3 ± 0.1308
240
220
200
180
160
140
120

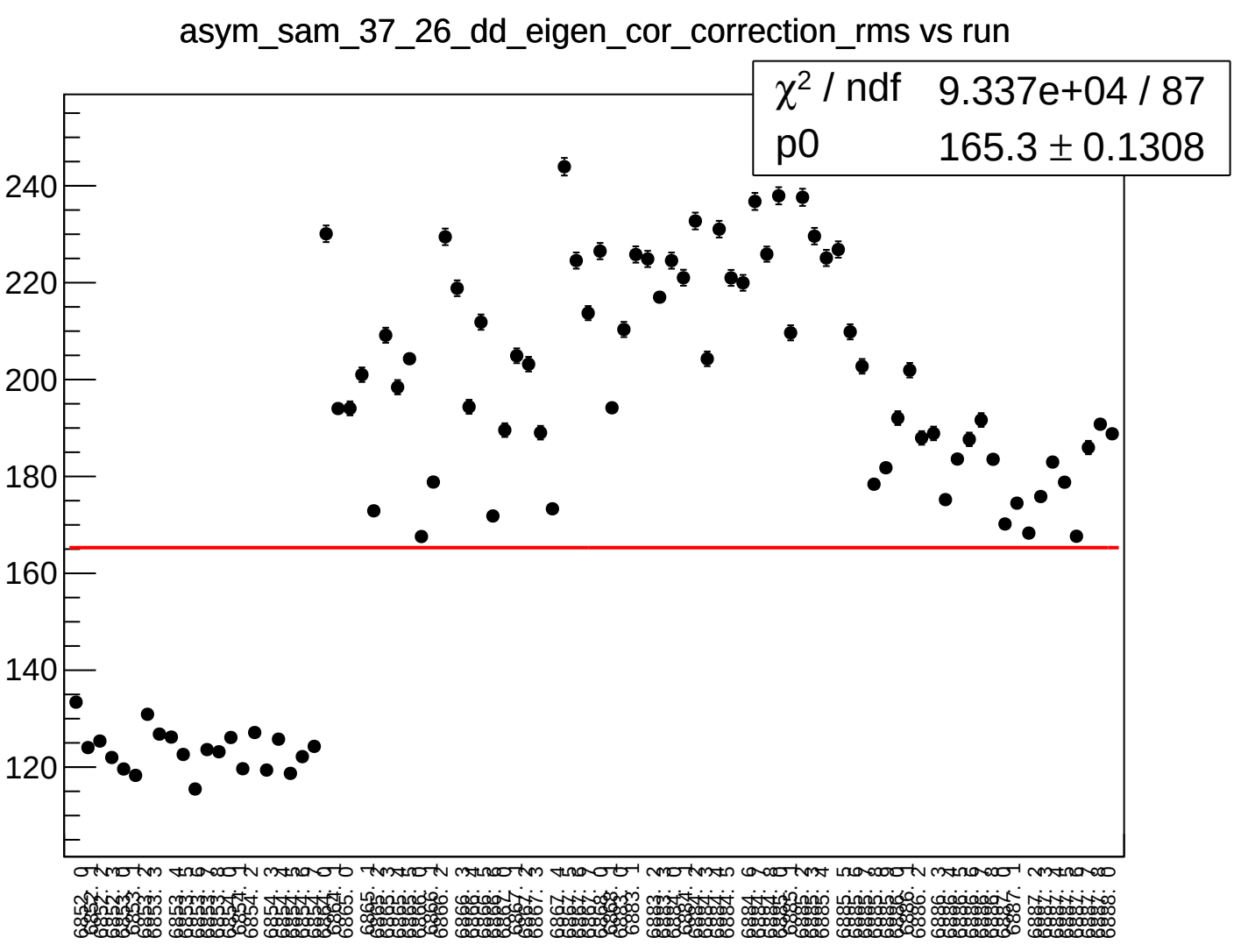

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 54.34 / 87
p0 70.46 ± 47.7
pull
Entries 88
Mean 273.6
Std Dev 0

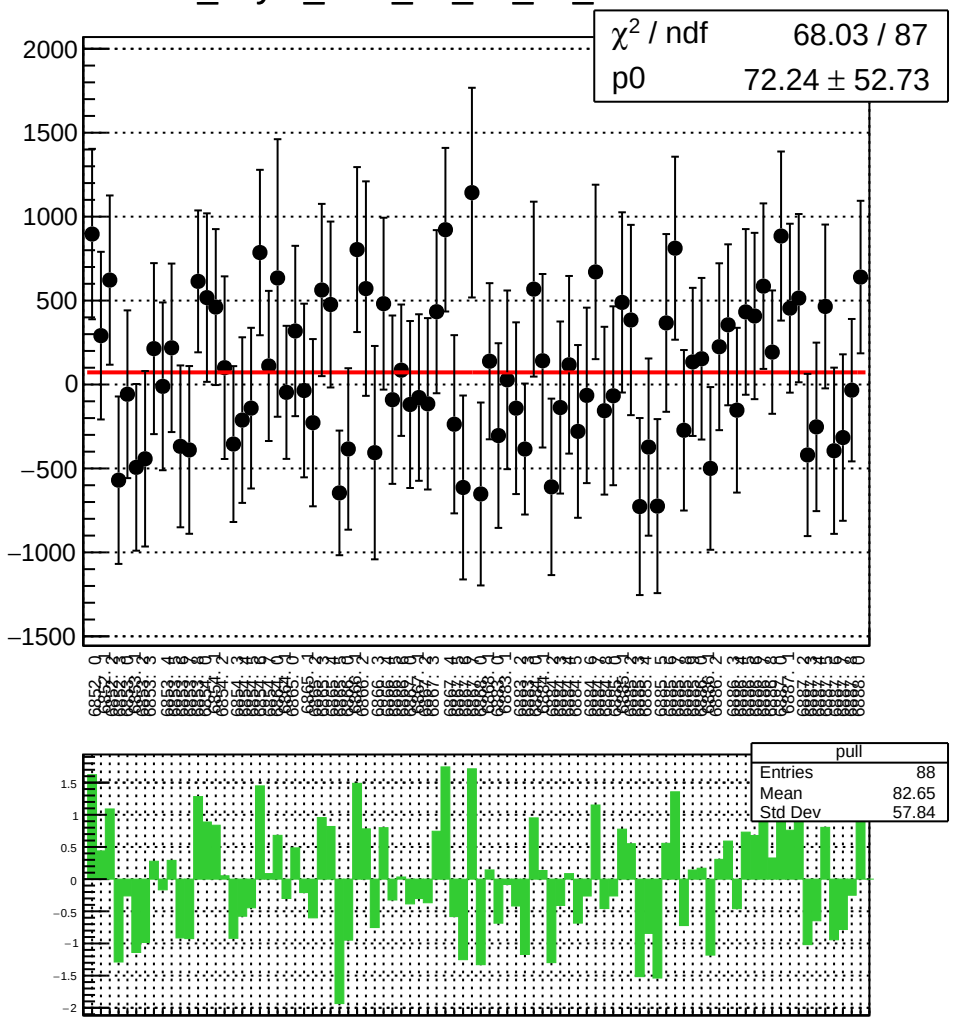

pull1D
Entries 88
Mean 0.001434
Std Dev 0.7858

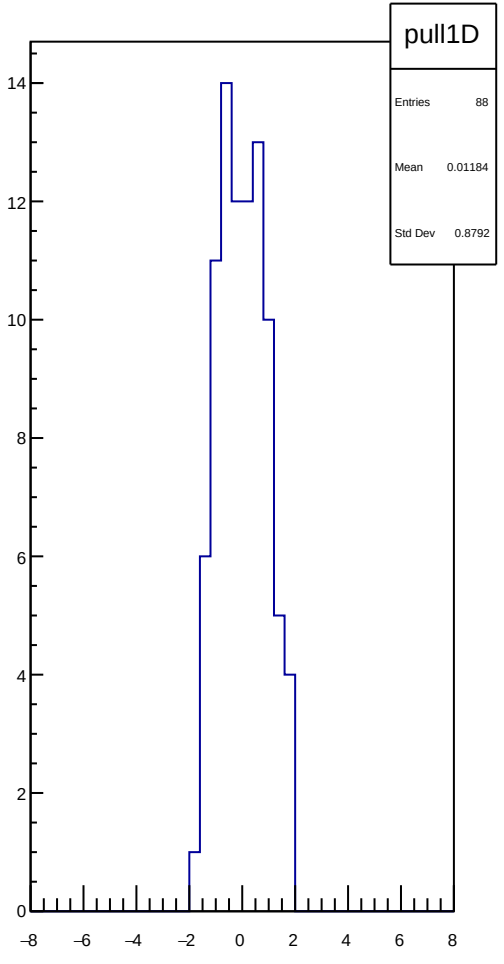

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 7833 / 87
p0 43.75 ± 0.03373
65
60
55
50
45
40

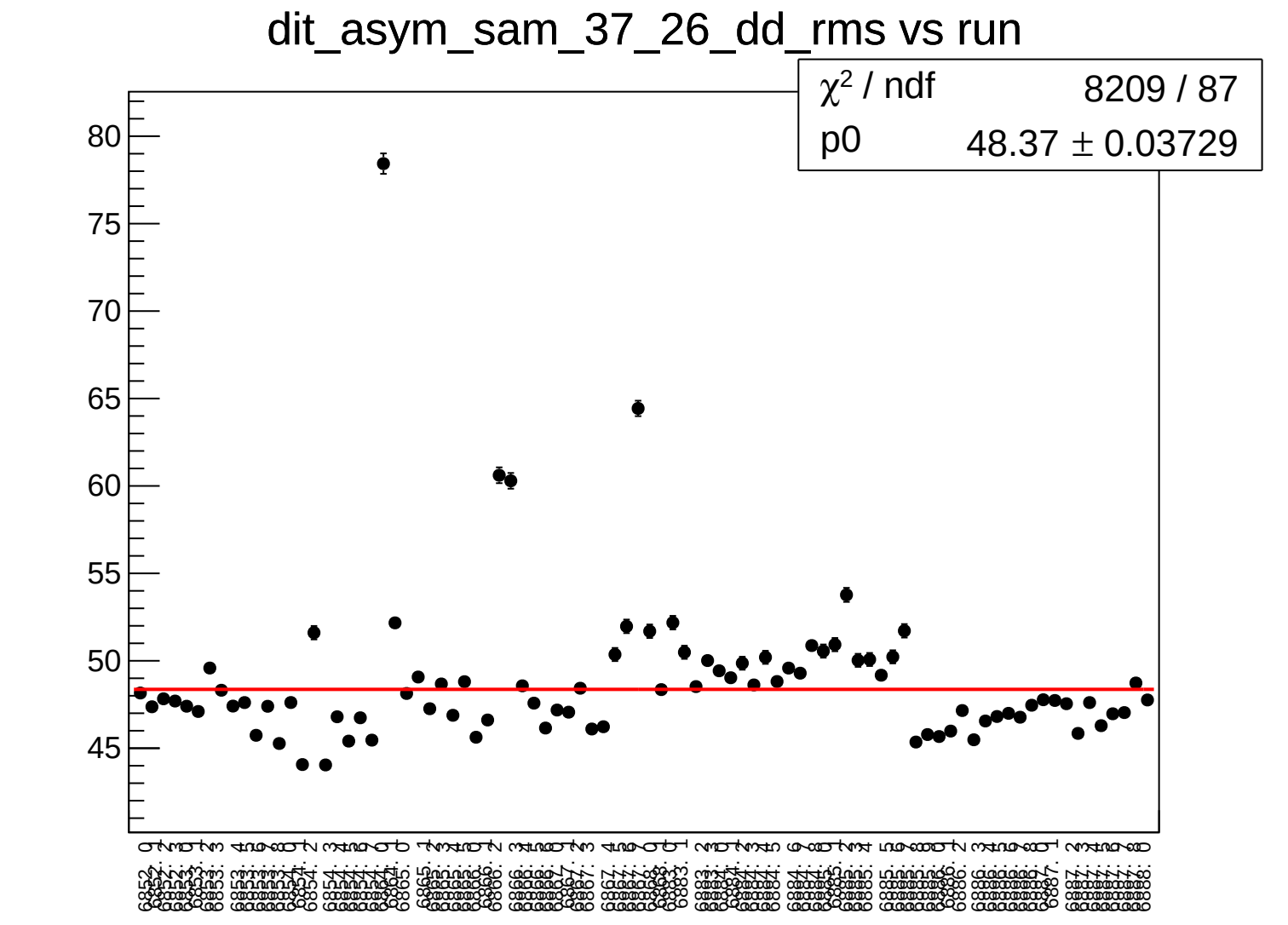

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.97 / 87
p0 −205 ± 185
pull
Entries 88
Mean 125
Std Dev 0

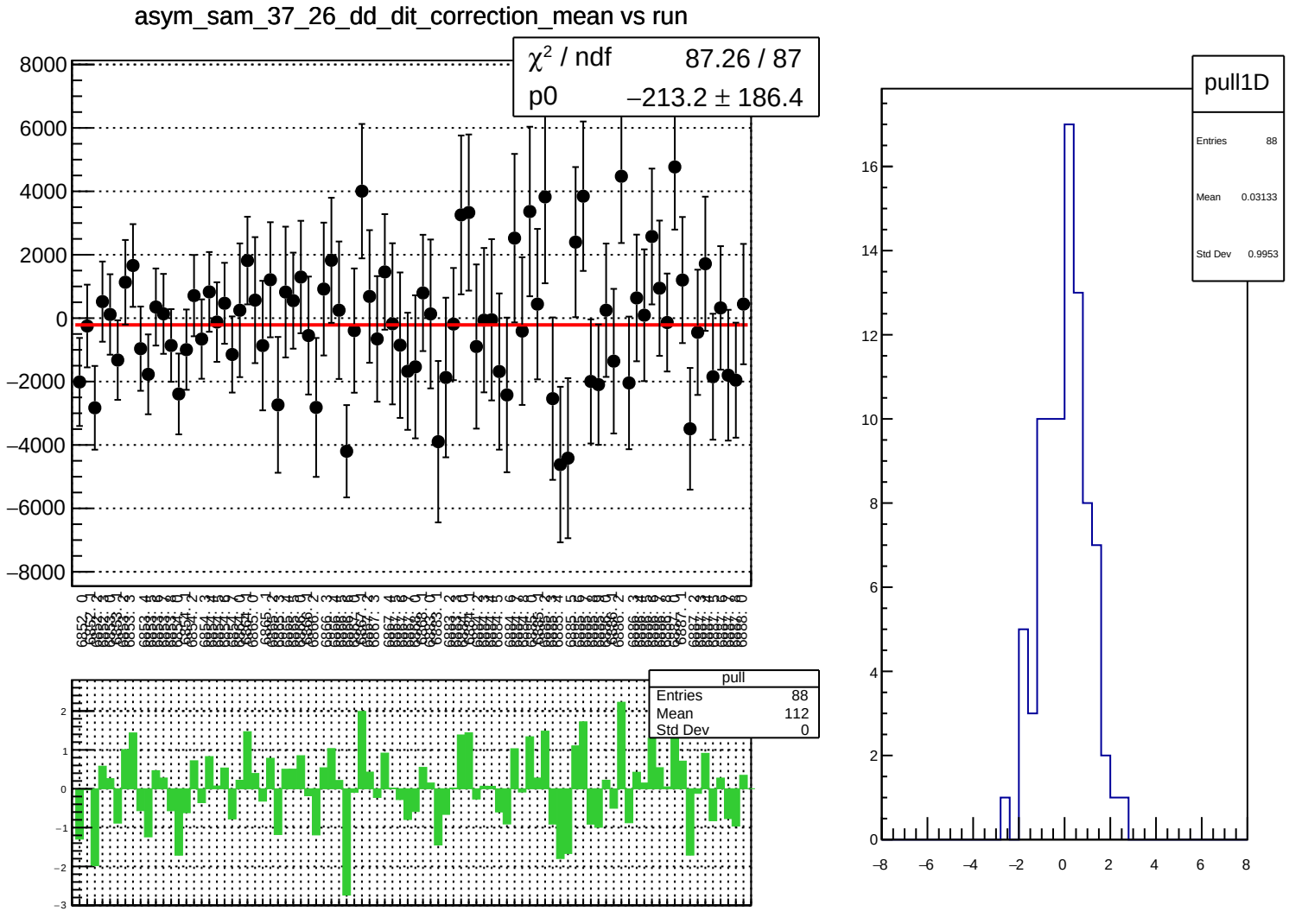

pull1D
Entries 88
Mean 0.02756
Std Dev 1.011

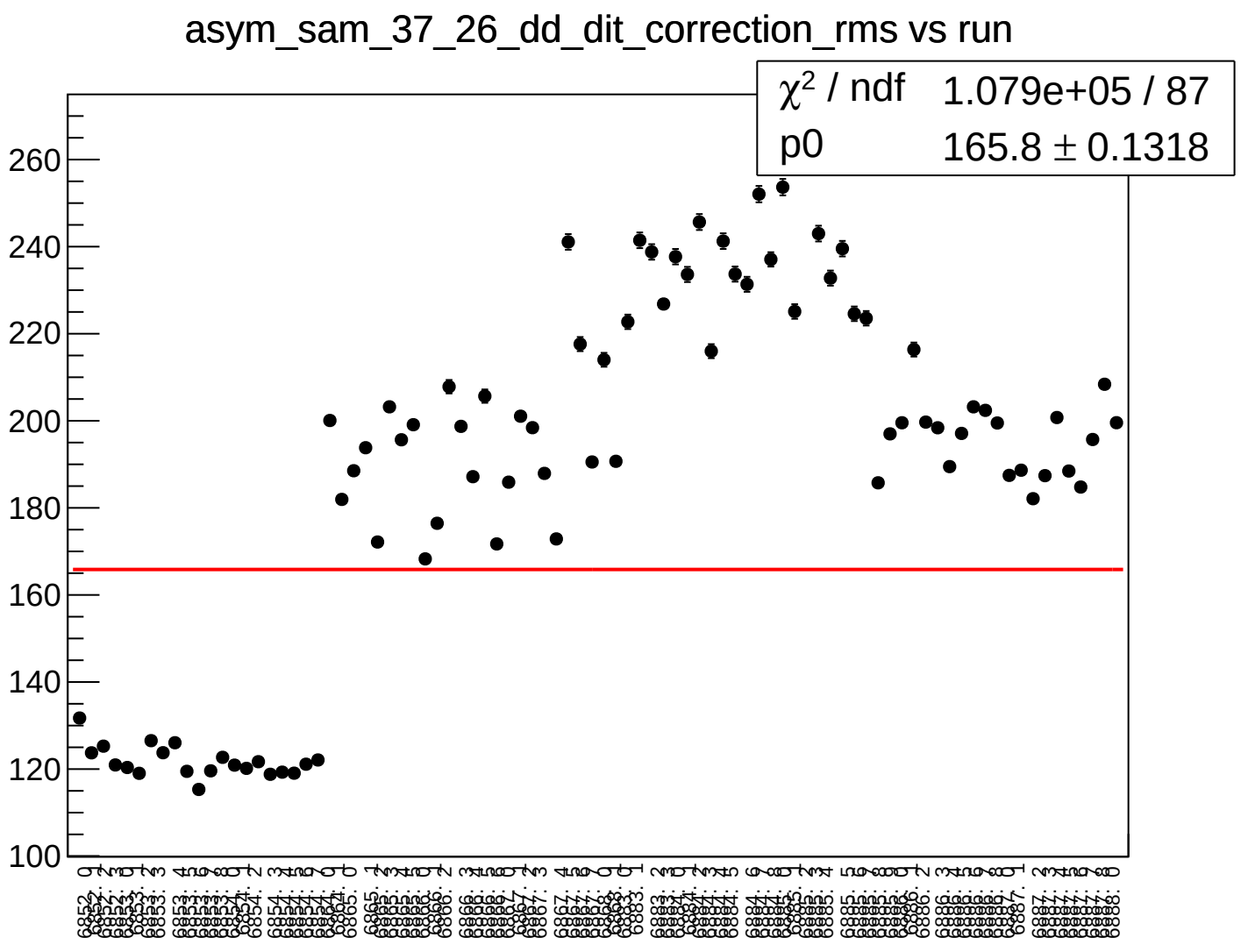

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 9.337e+04 / 87
p0 165.3 ± 0.1308
240
220
200
180
160
140
120

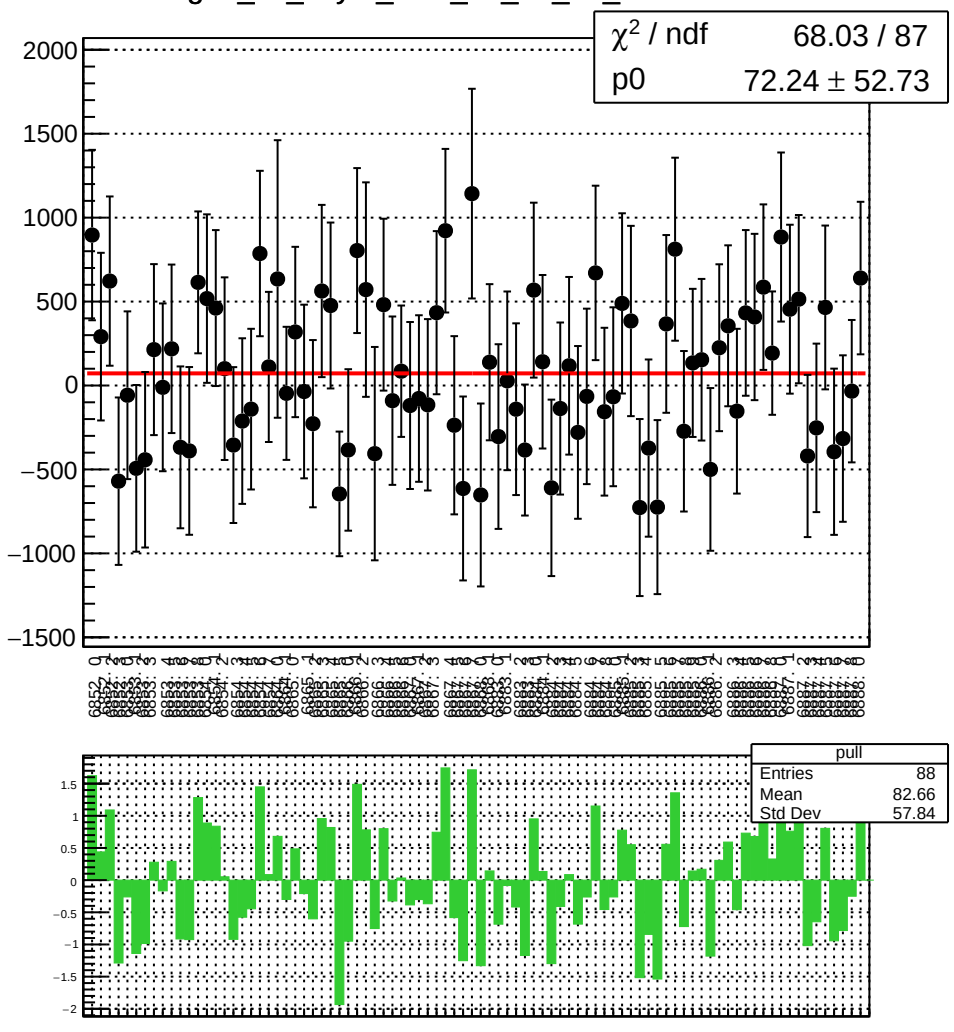

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 68.03 / 87
p0 72.24 ± 52.73
pull
Entries 88
Mean 82.65
Std Dev 57.84

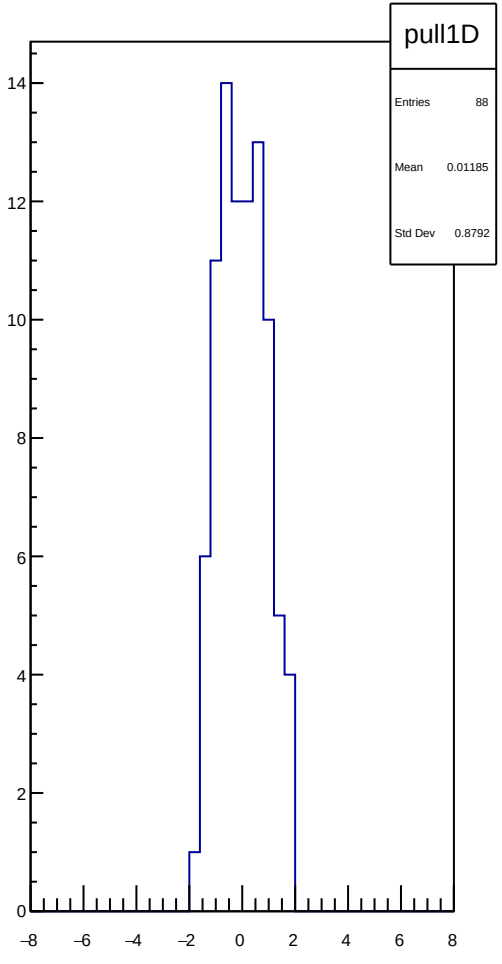

pull1D
Entries 88
Mean 0.01184
Std Dev 0.8792

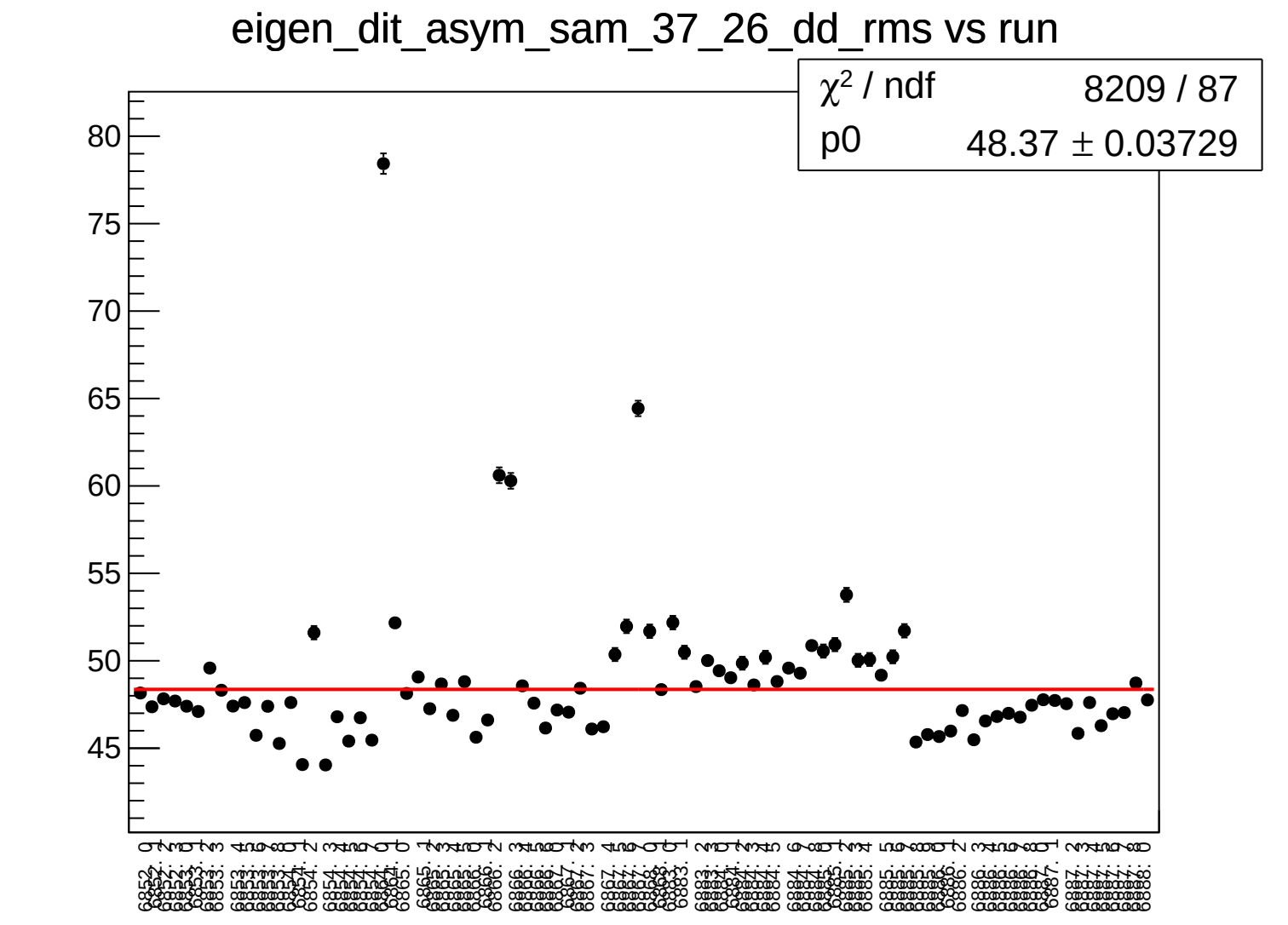

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 8209 / 87
p0 48.37 ± 0.03729
80
75
70
65
60
55
50
45

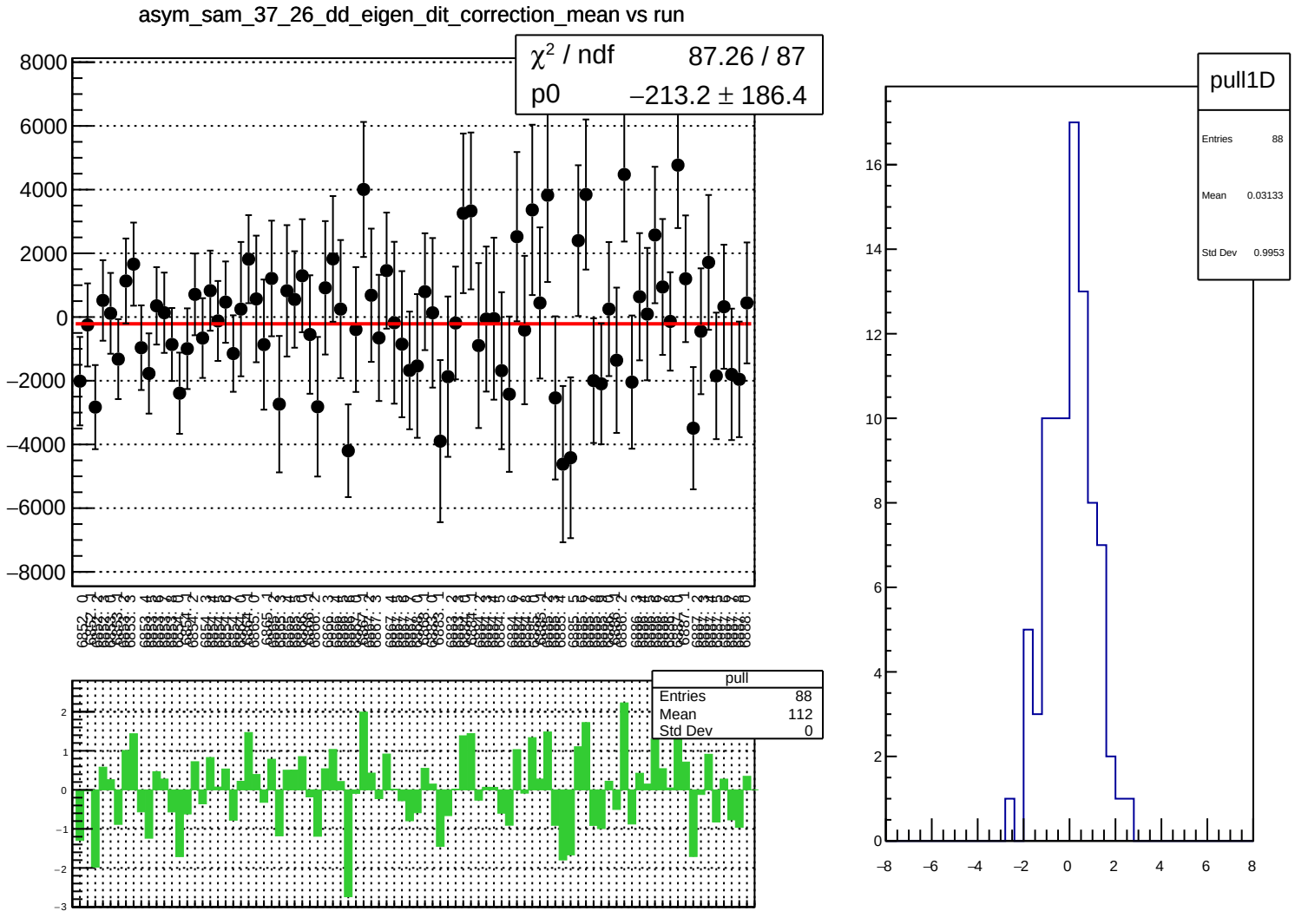

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 87.26 / 87
p0 −213.2 ± 186.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean 112
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.03133
Std Dev 0.9953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

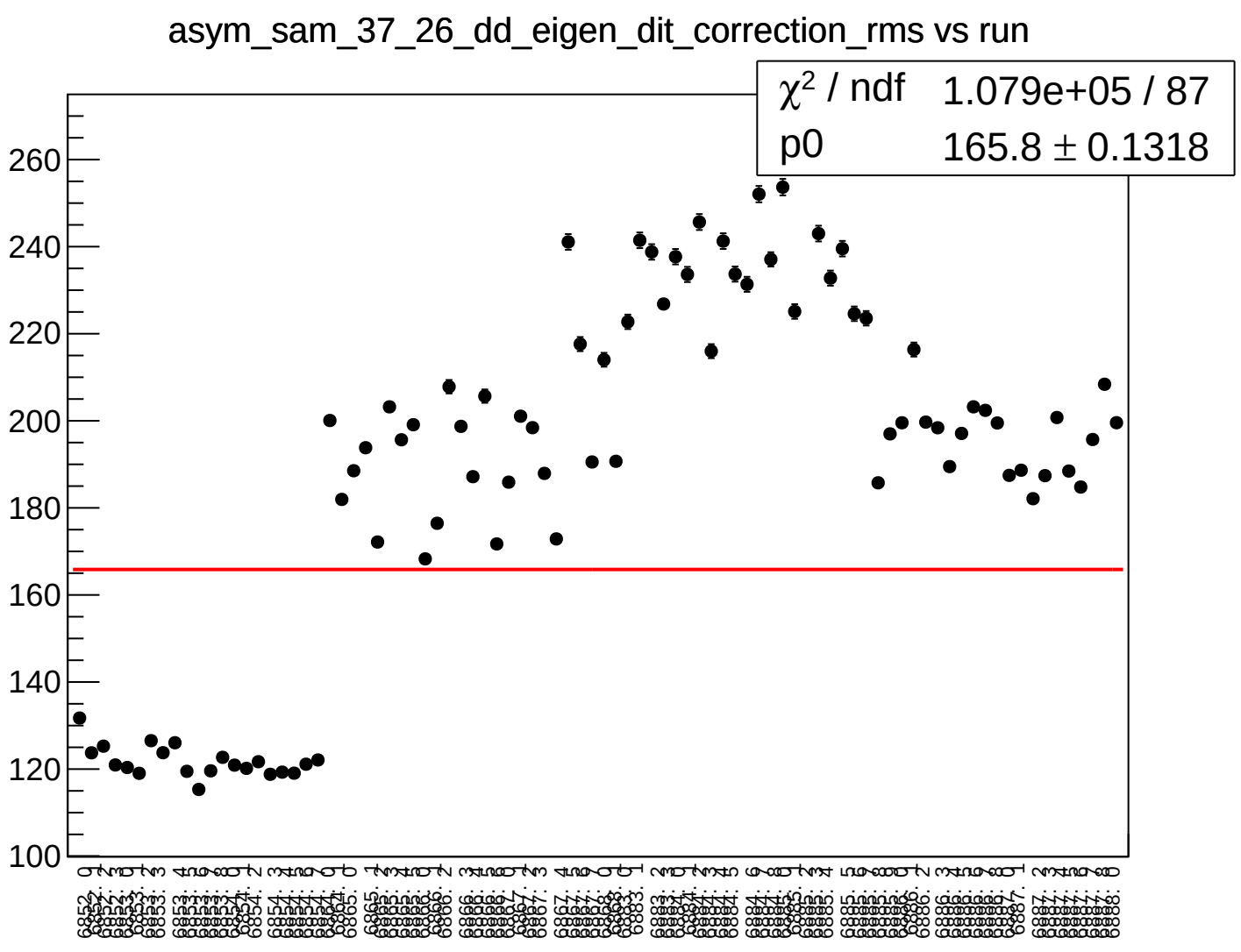

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1.079e+05 / 87
p0 165.8 ± 0.1318
260
240
220
200
180
160
140
120
100

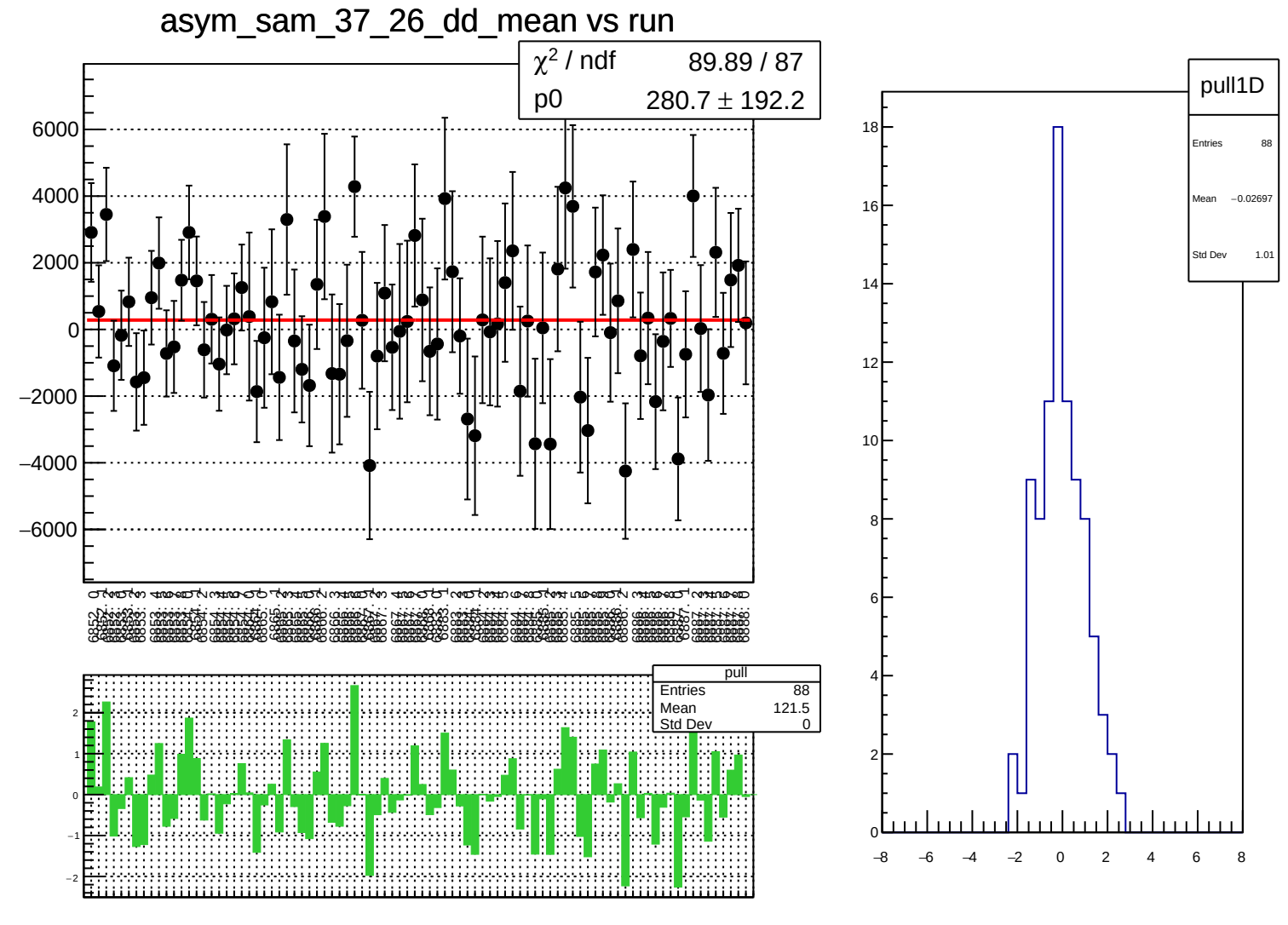

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 68.03 / 87
p0 72.24 ± 52.73
pull
Entries 88
Mean 82.66
Std Dev 57.84

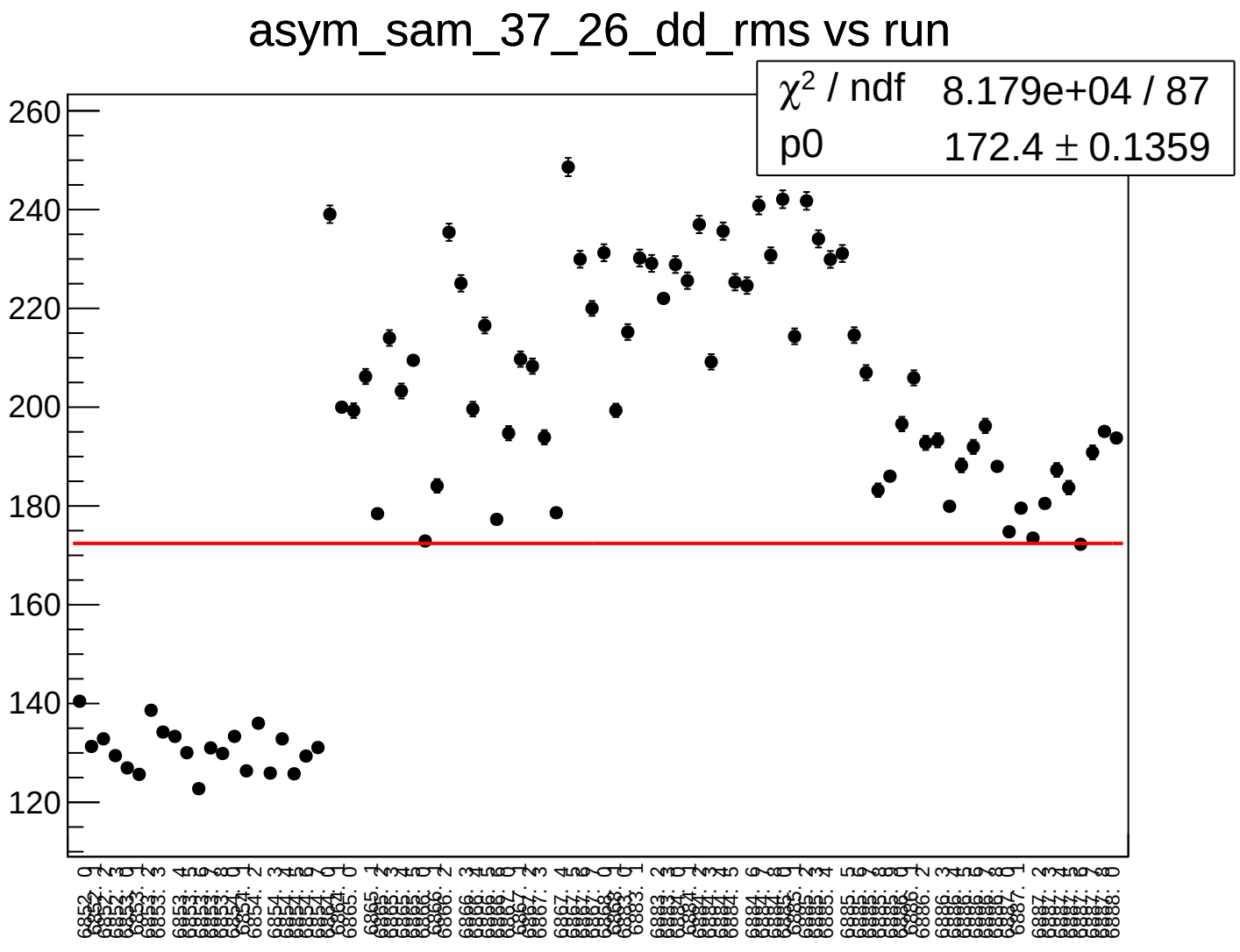

pull1D
Entries 88
Mean 0.01185
Std Dev 0.8792

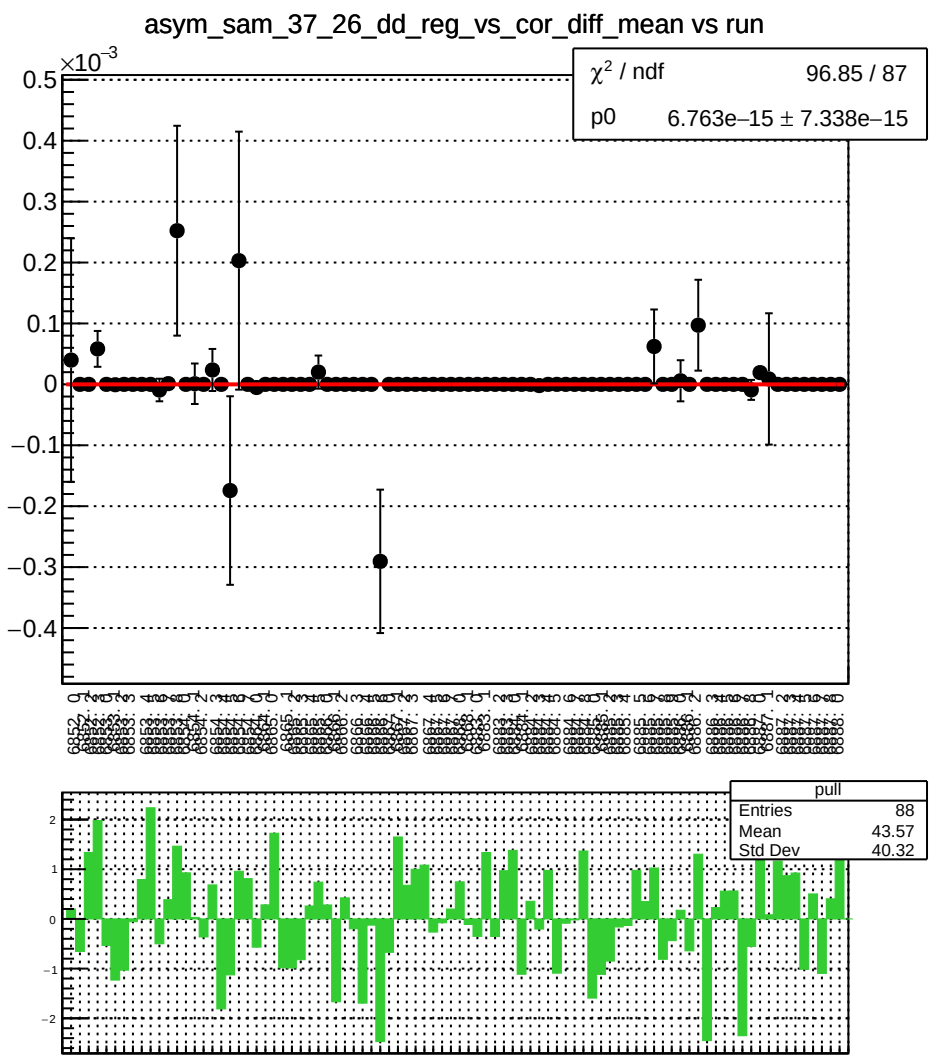

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 8209 / 87
p0 48.37 ± 0.03729
80
75
70
65
60
55
50
45

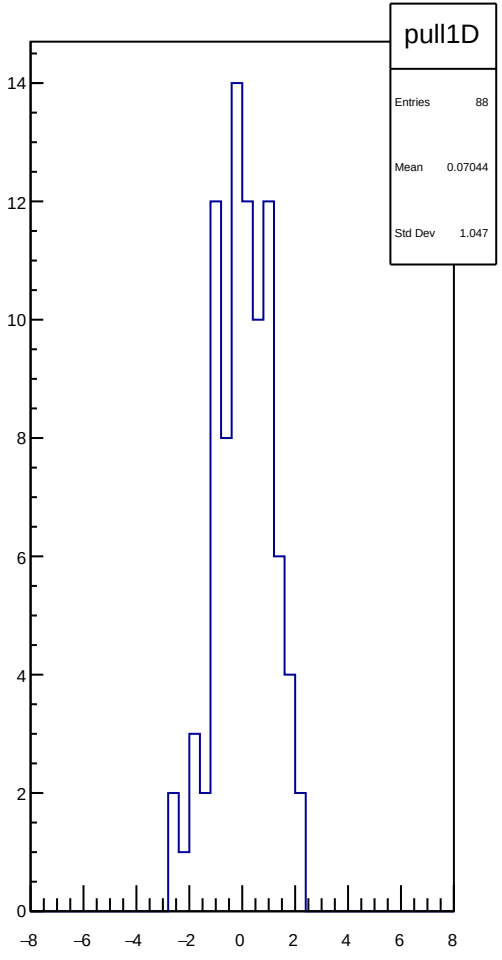

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.26 / 87
p0 −213.2 ± 186.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 88
Mean 112
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.03133
Std Dev 0.9953
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

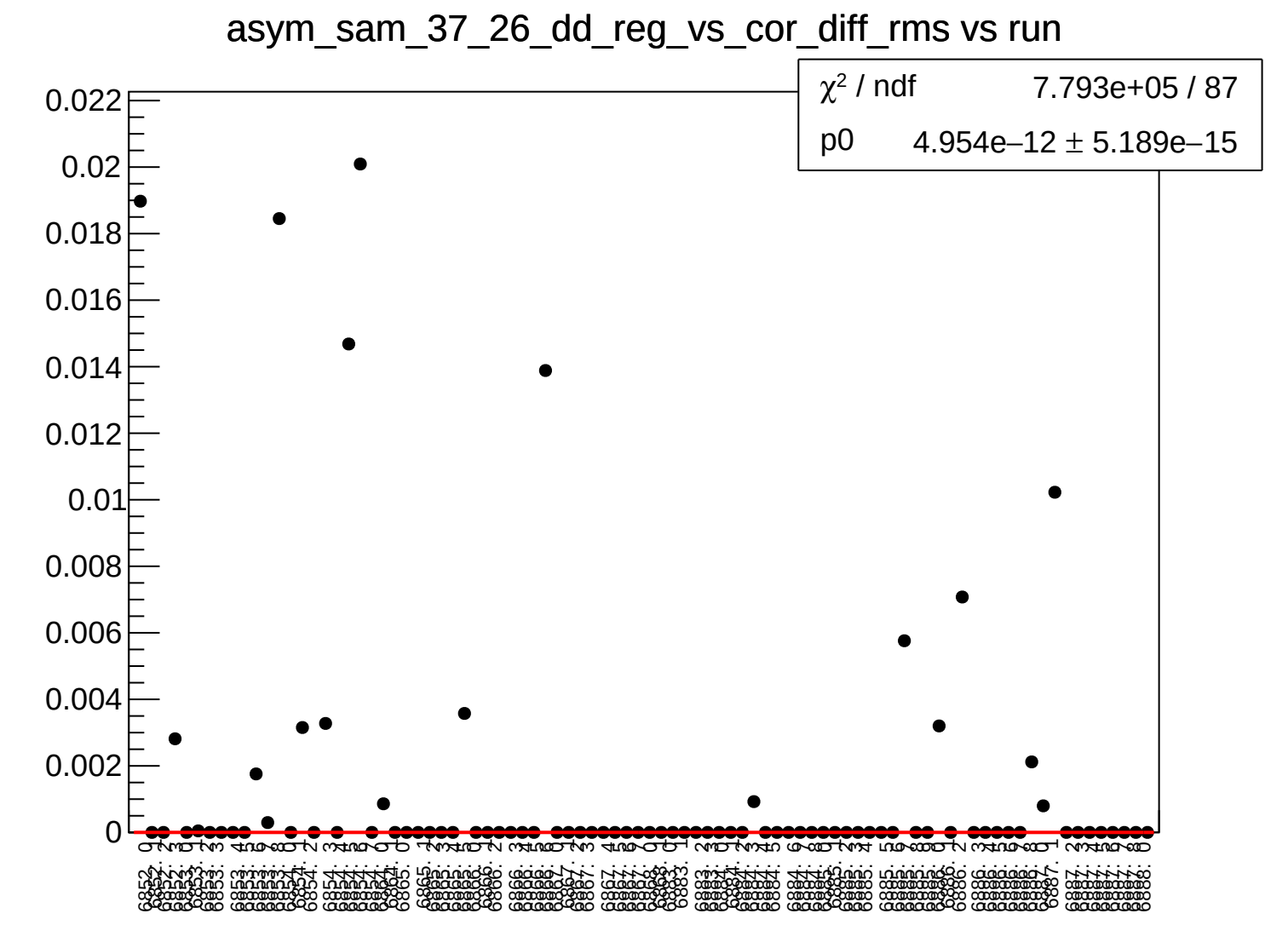

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.079e+05 / 87
p0 165.8 ± 0.1318
260
240
220
200
180
160
140
120
100

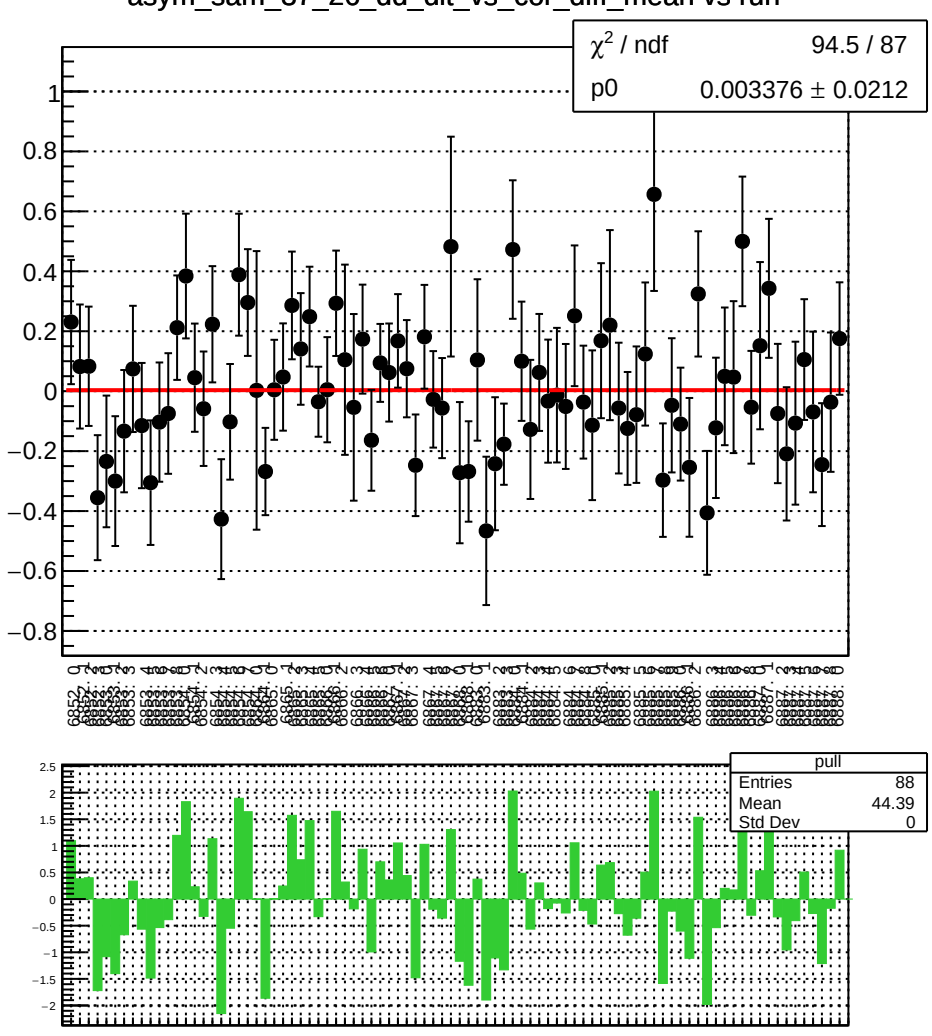

asym_sam_37_26_dd_mean vs run
χ² / ndf 89.89 / 87
p0 280.7 ± 192.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 88
Mean 121.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.02697
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

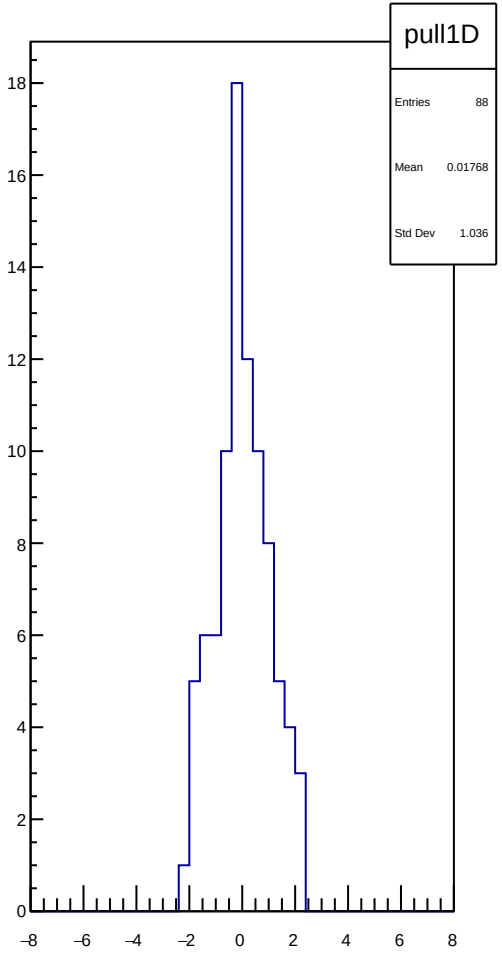

asym_sam_37_26_dd_rms vs run
χ² / ndf 8.179e+04 / 87
p0 172.4 ± 0.1359
260
240
220
200
180
160
140
120

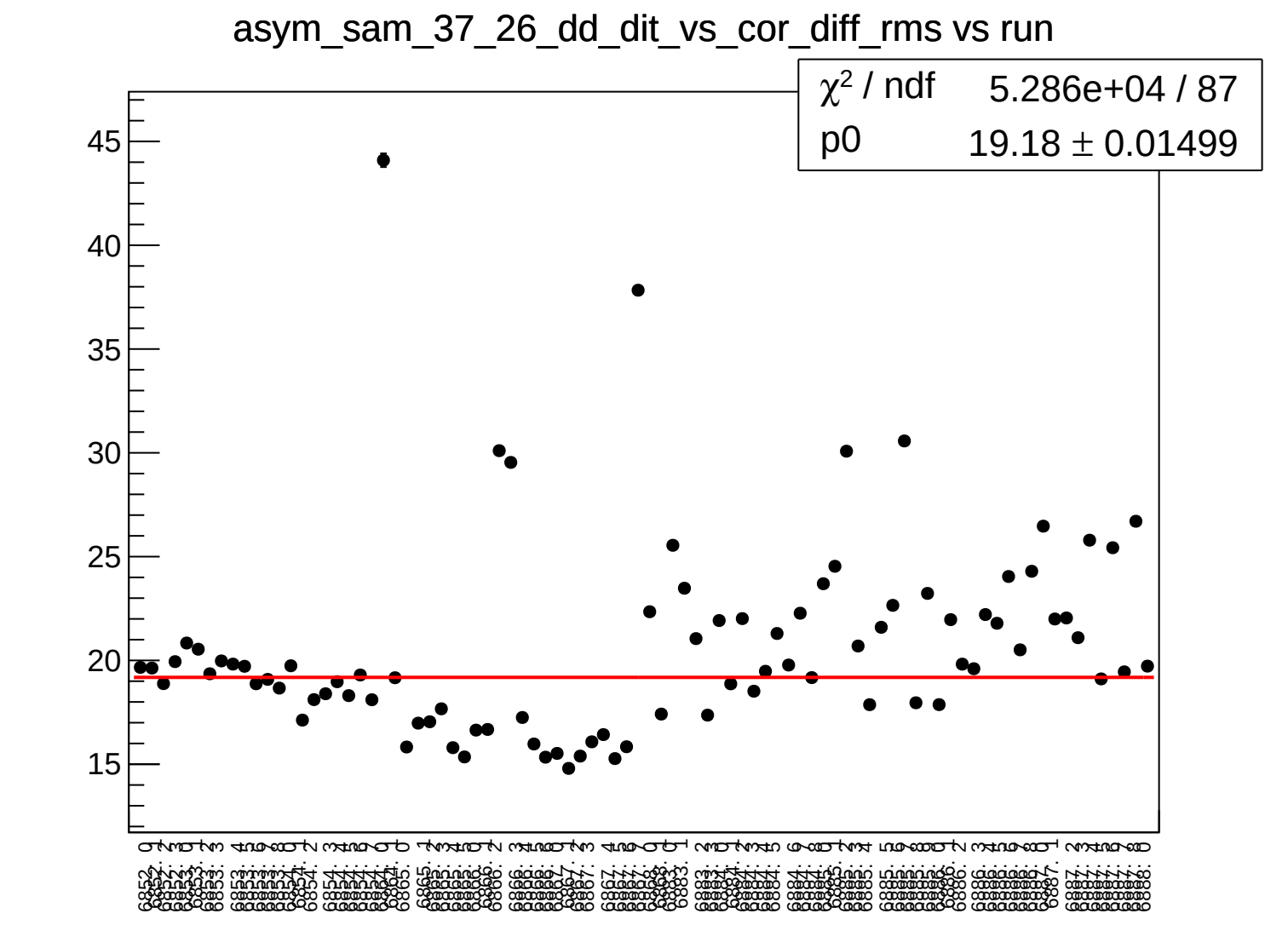

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 96.85 / 87
p0 6.763e−15 ± 7.338e−15
pull
Entries 88
Mean 43.57
Std Dev 40.32

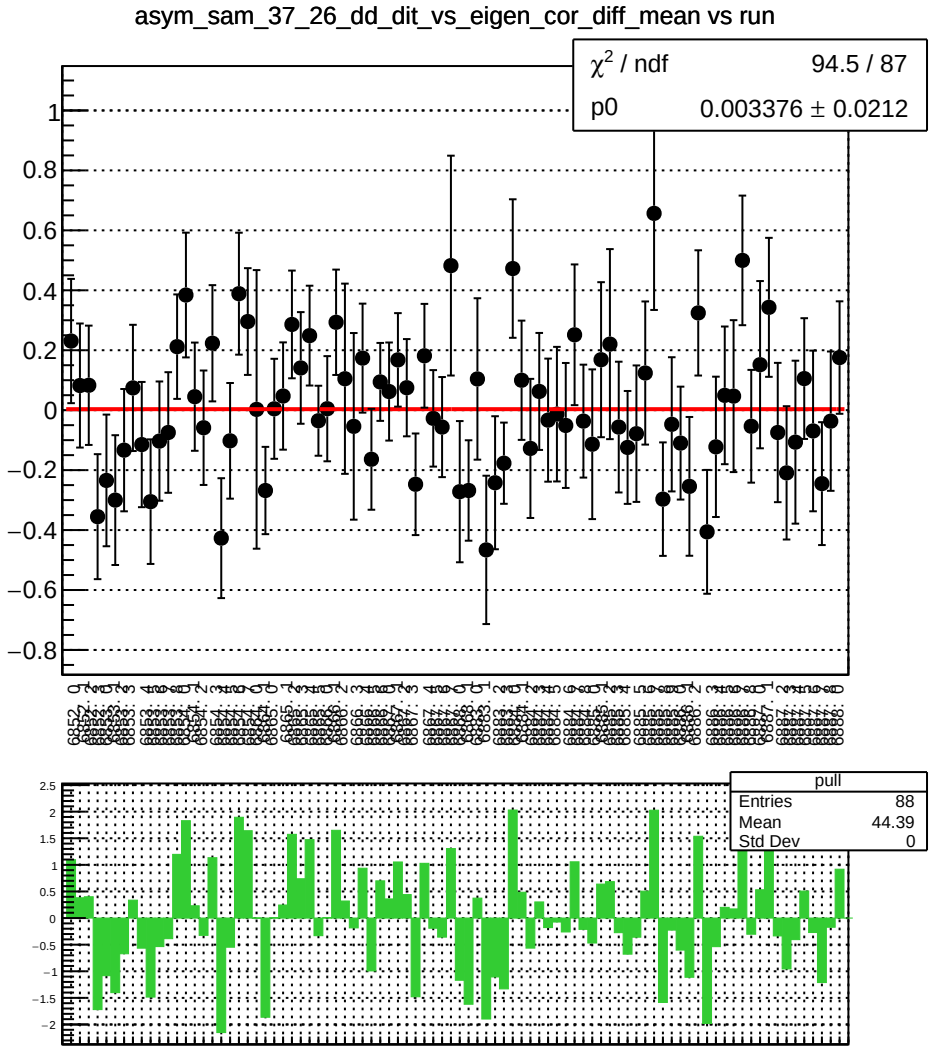

pull1D
Entries 88
Mean 0.07044
Std Dev 1.047

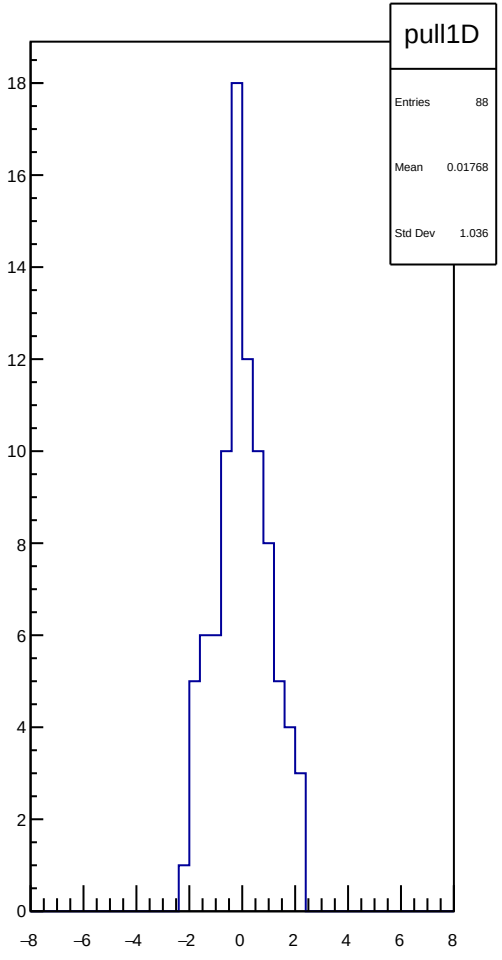

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.793e+05 / 87
p0 4.954e−12 ± 5.189e−15
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

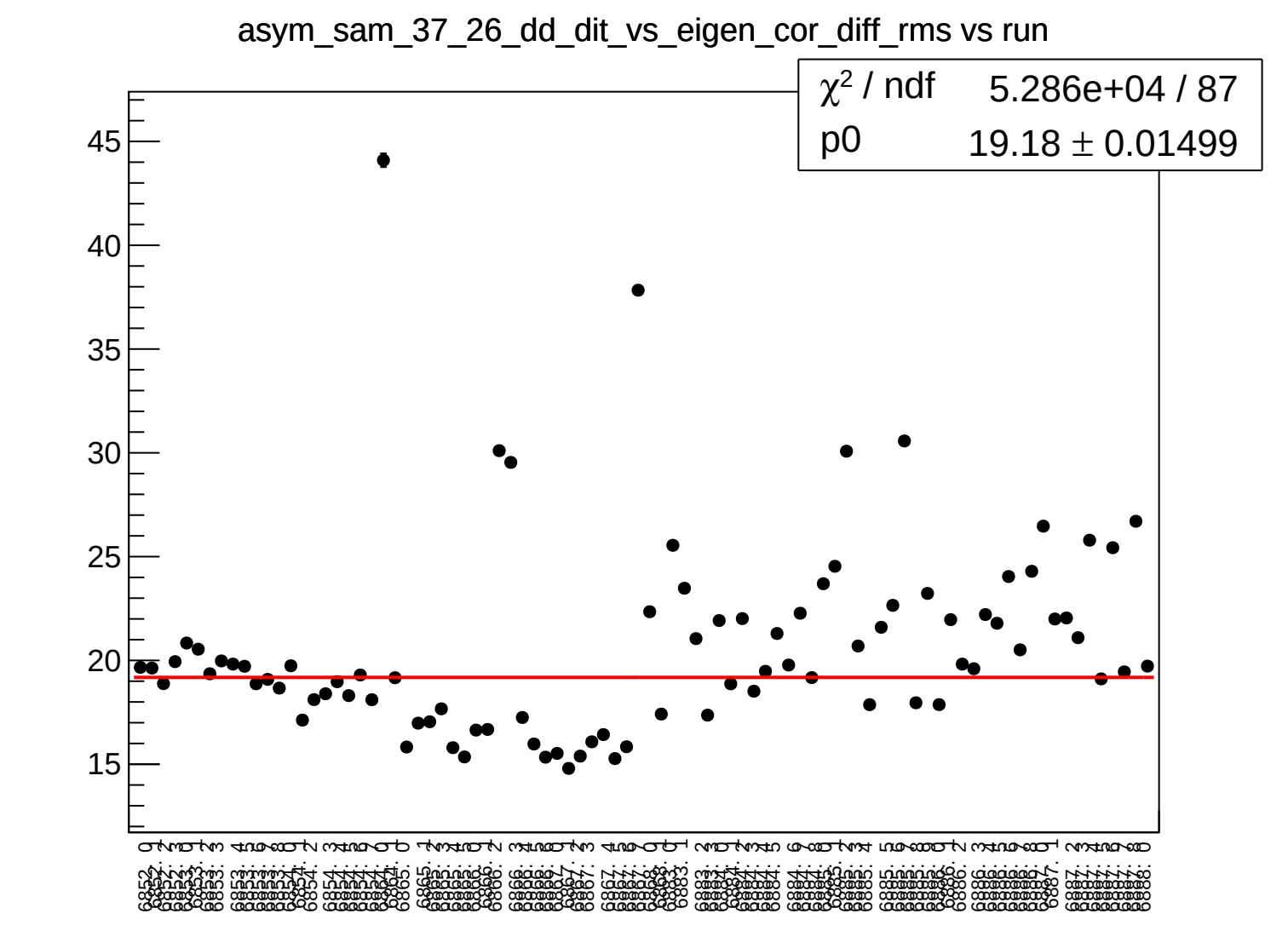

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.5 / 87
p0 0.003376 ± 0.0212
pull
Entries 88
Mean 44.39
Std Dev 0

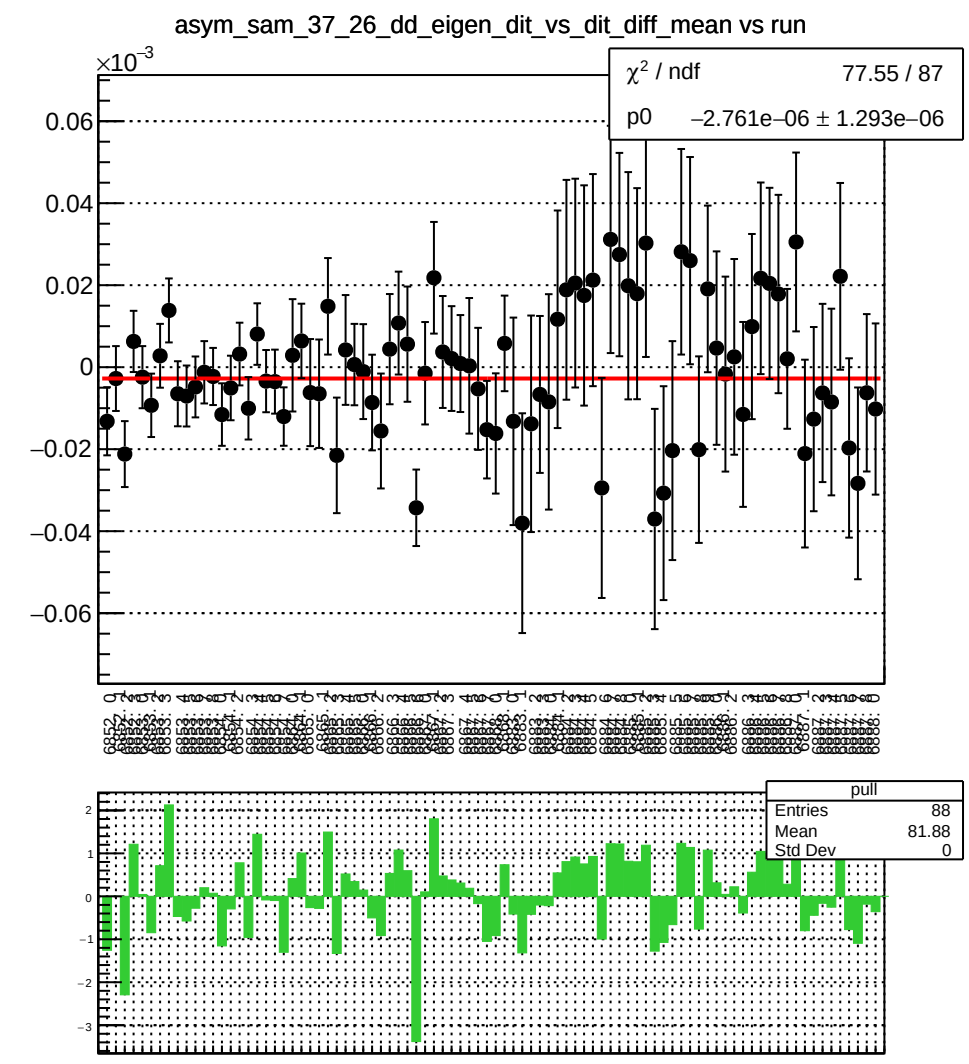

pull1D
Entries 88
Mean 0.01768
Std Dev 1.036

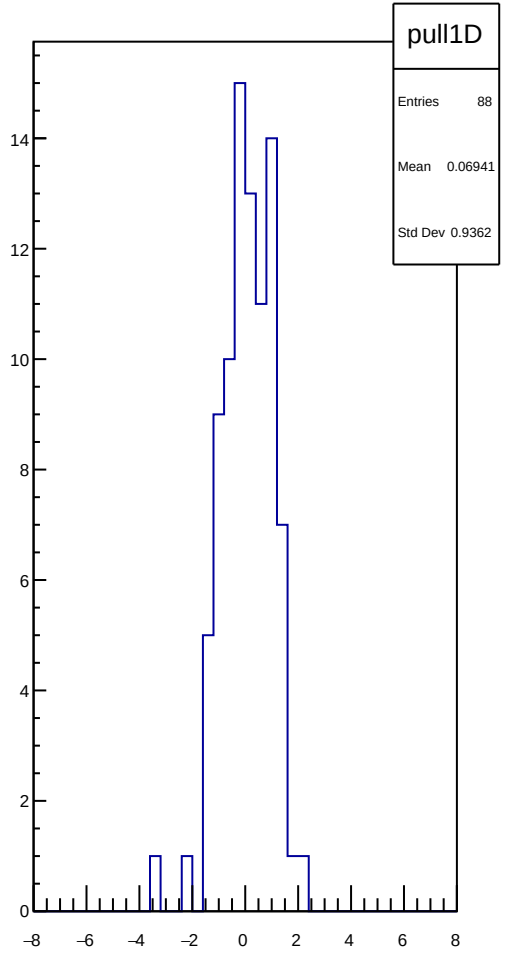

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.286e+04 / 87
p0 19.18 ± 0.01499
45
40
35
30
25
20
15

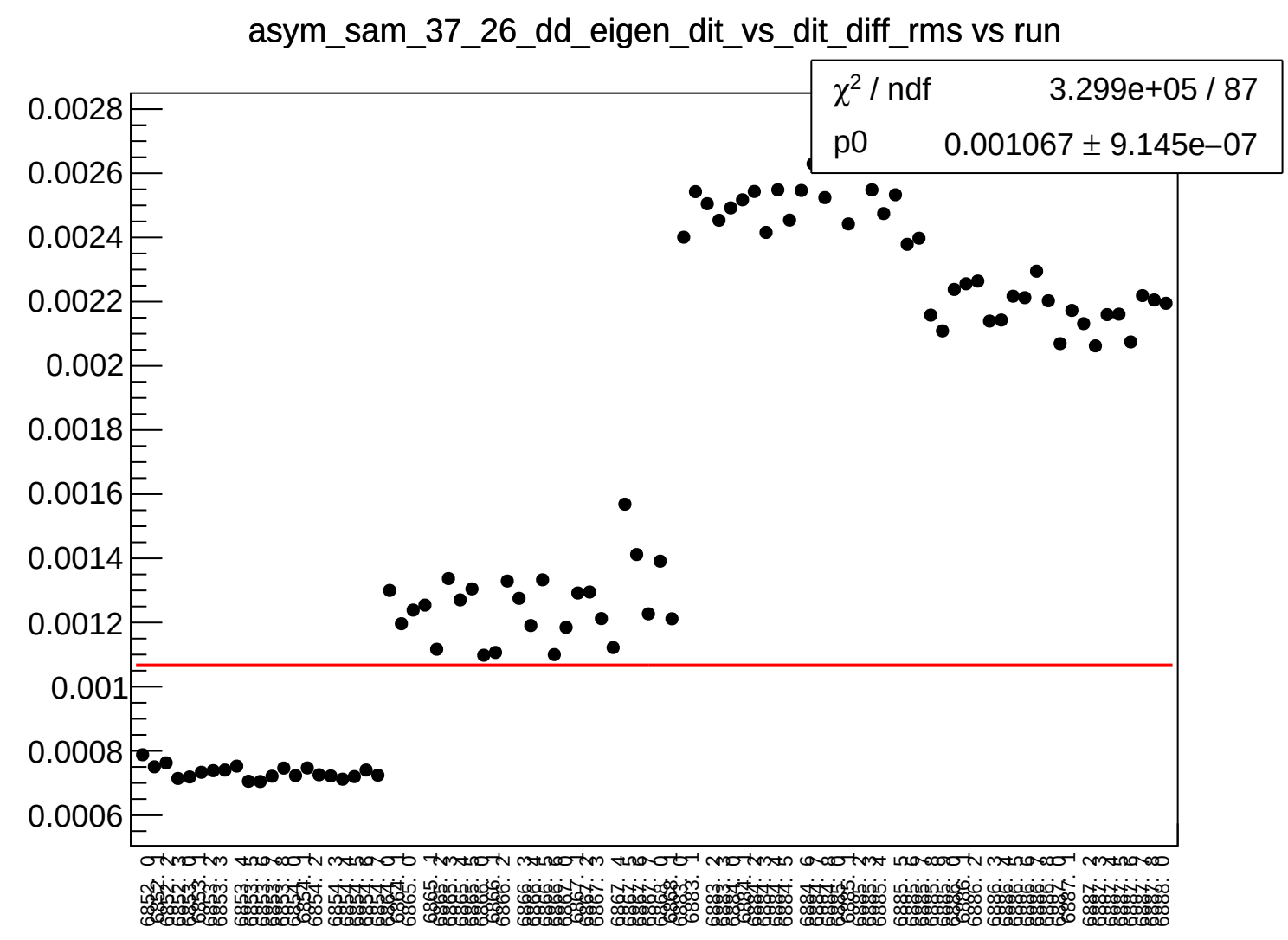

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.5 / 87
p0 0.003376 ± 0.0212
pull
Entries 88
Mean 44.39
Std Dev 0

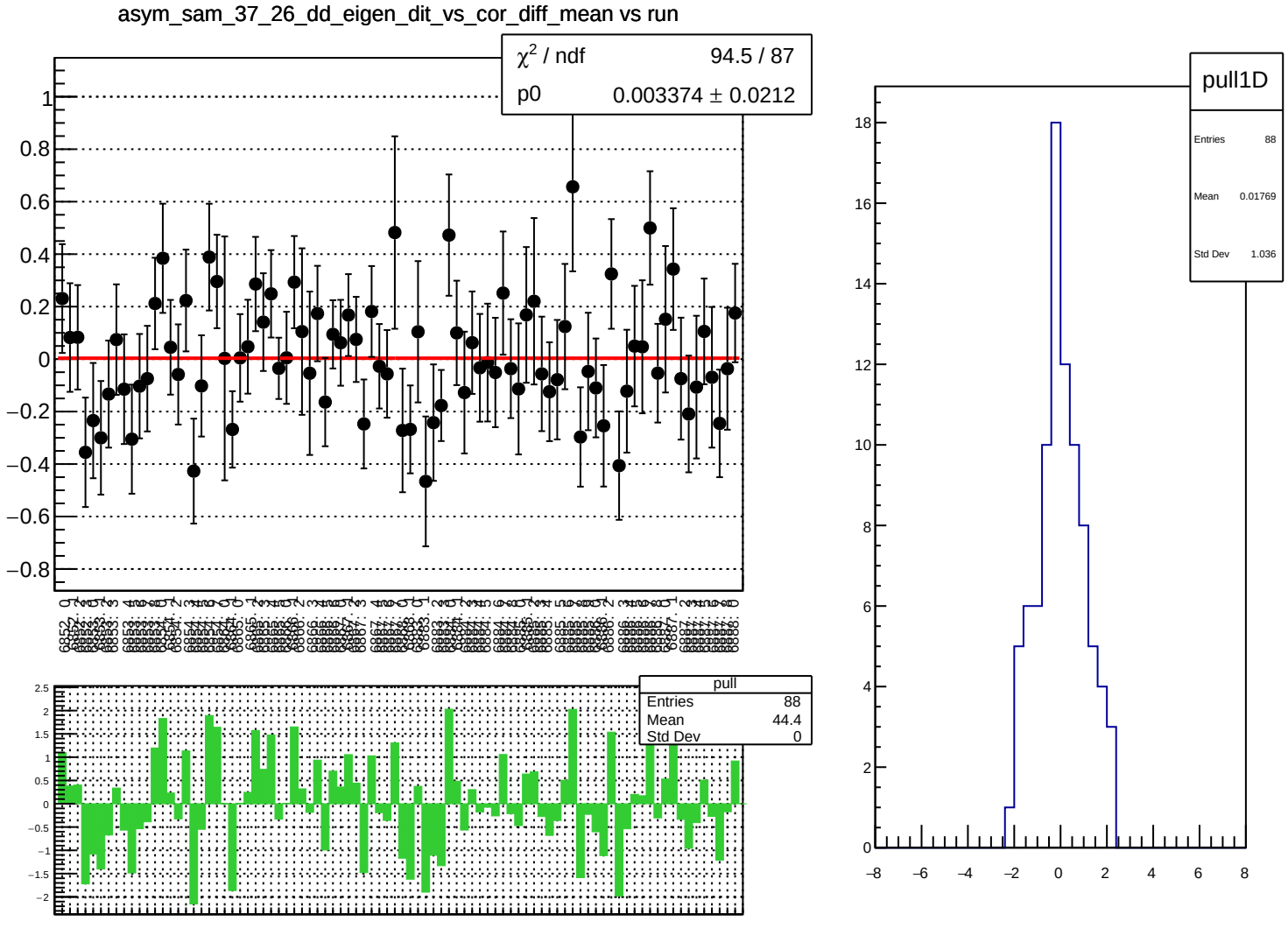

pull1D
Entries 88
Mean 0.01768
Std Dev 1.036

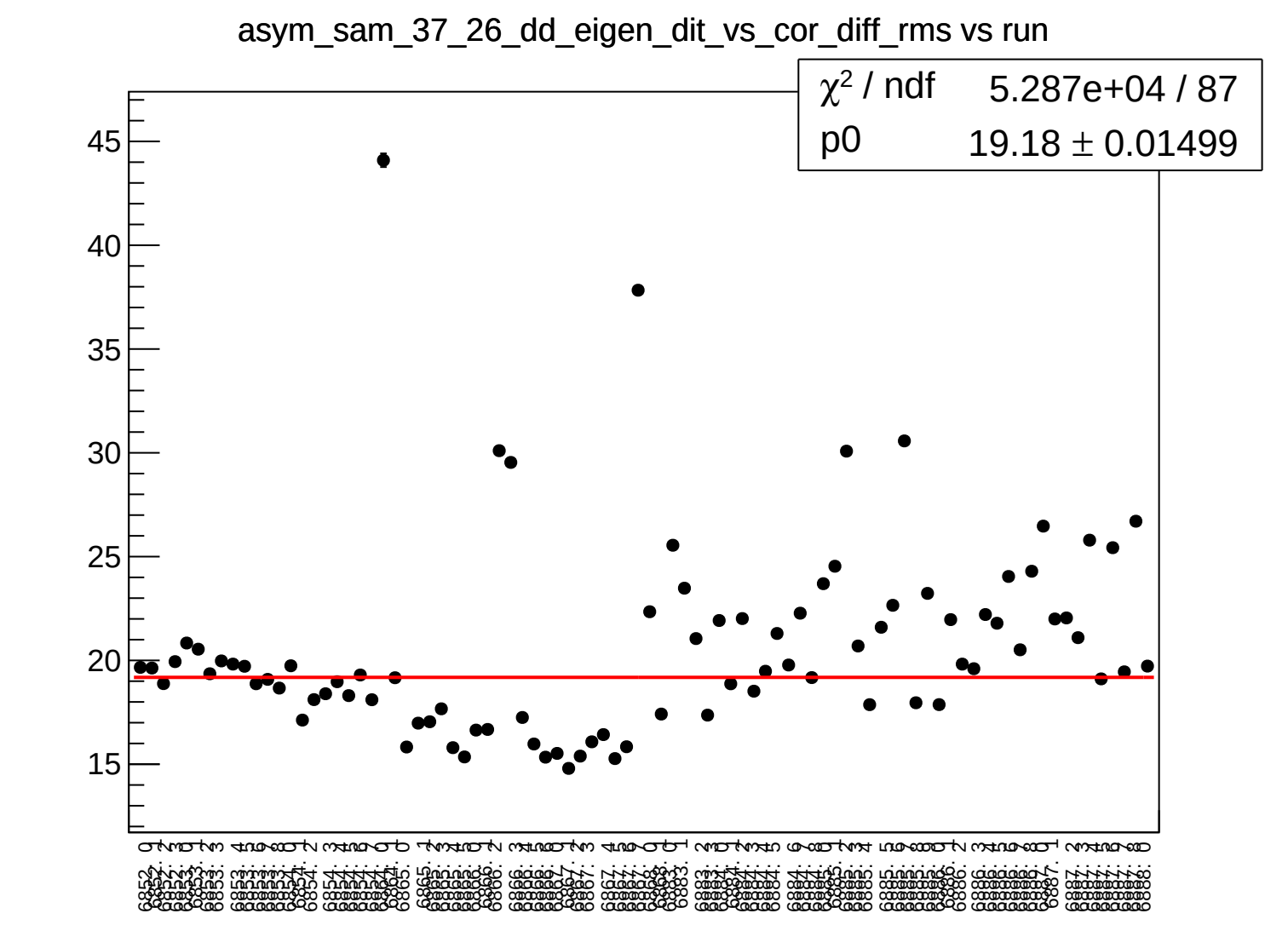

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.286e+04 / 87
p0 19.18 ± 0.01499
45
40
35
30
25
20
15

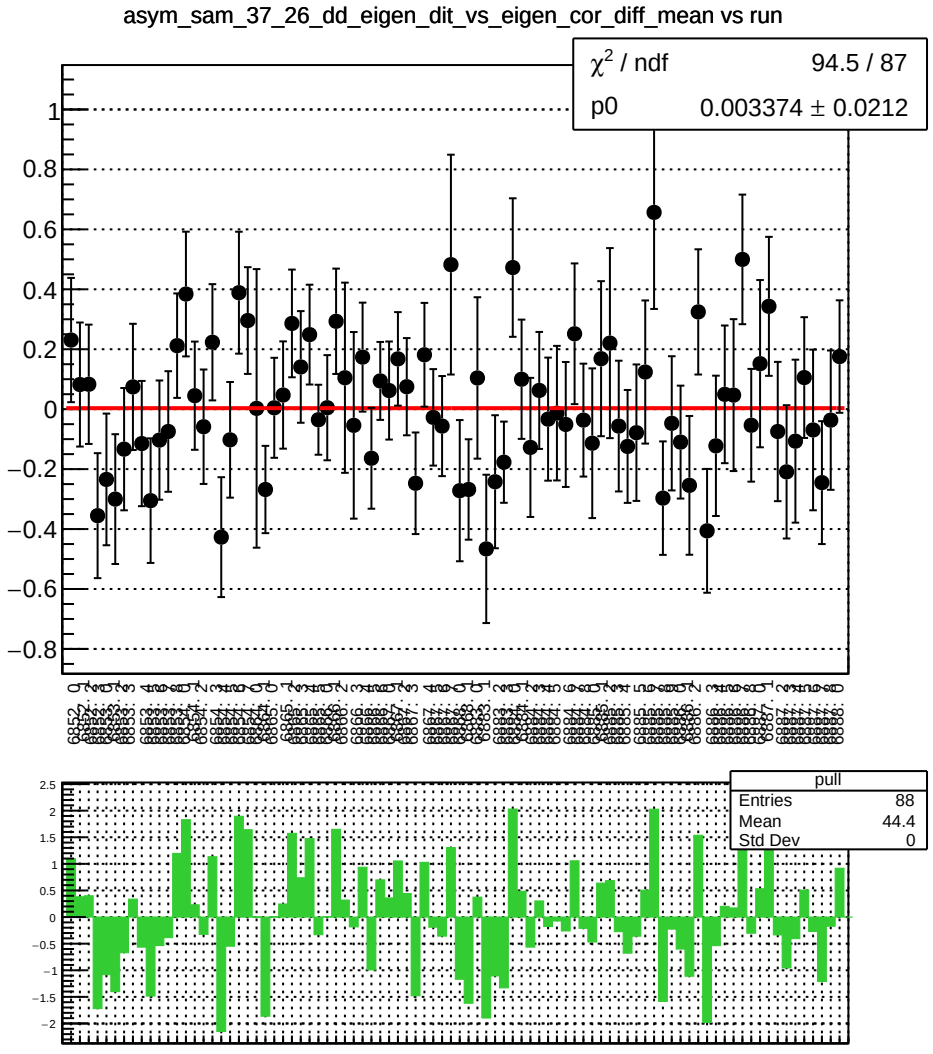

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.55 / 87
p0 −2.761e−06 ± 1.293e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 81.88
Std Dev 0
2
1
0
−1
−2
−3

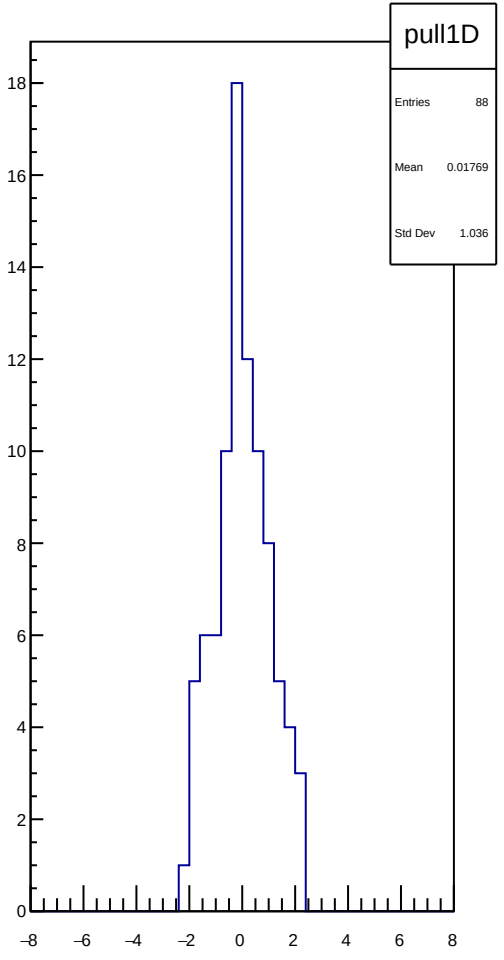

pull1D
Entries 88
Mean 0.06941
Std Dev 0.9362
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

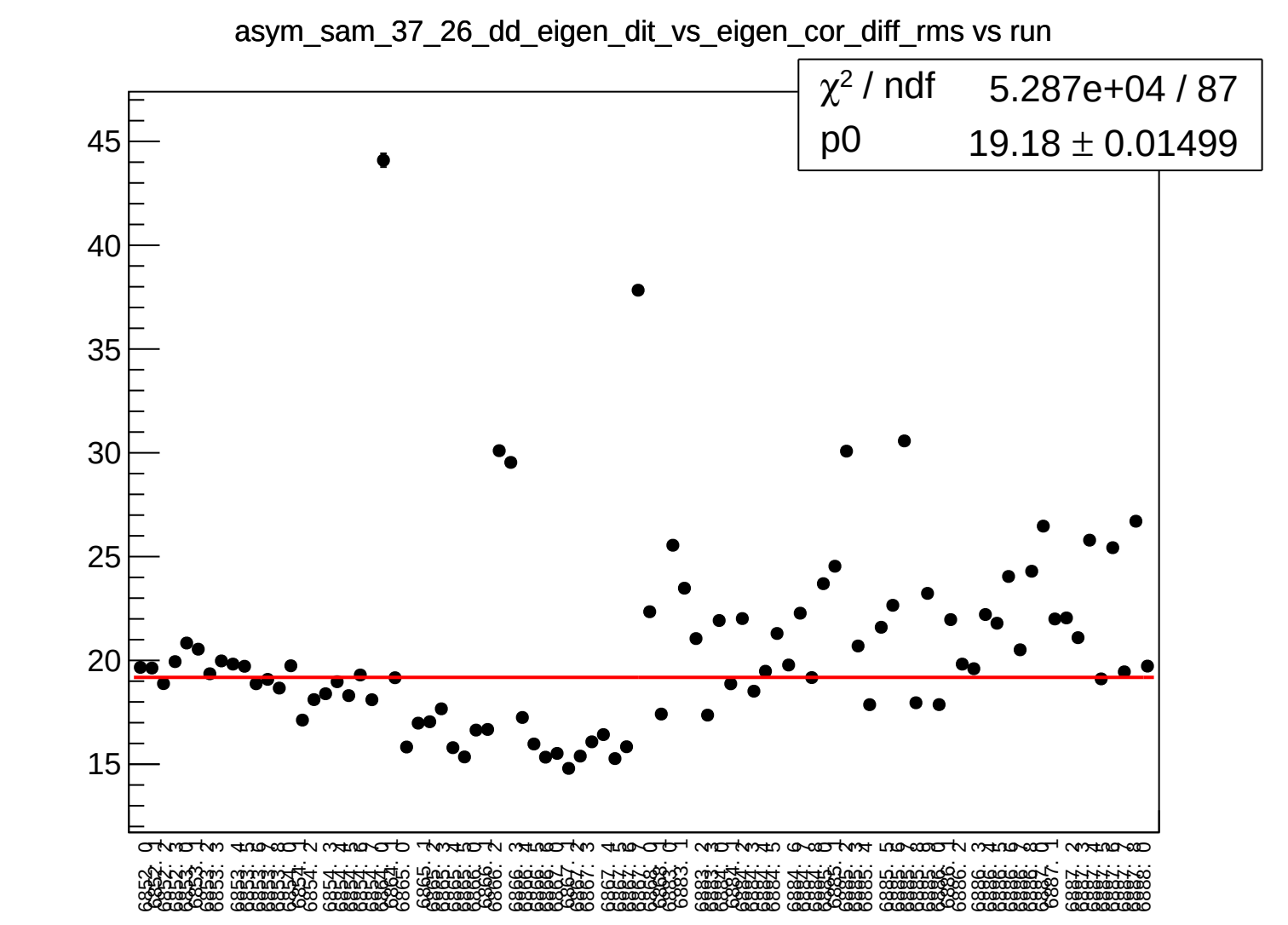

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.299e+05 / 87
p0 0.001067 ± 9.145e−07
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

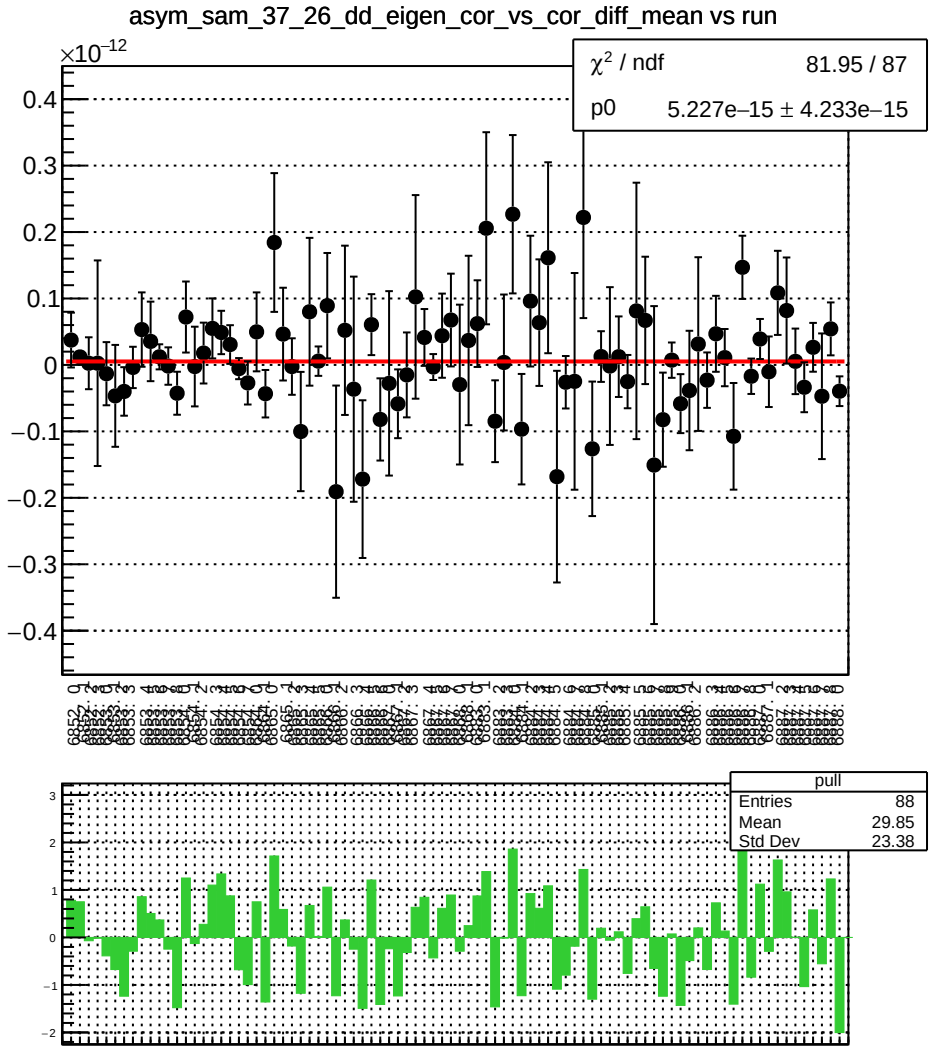

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.5 / 87
p0 0.003374 ± 0.0212
pull
Entries 88
Mean 44.4
Std Dev 0
pull1D
Entries 88
Mean 0.01769
Std Dev 1.036

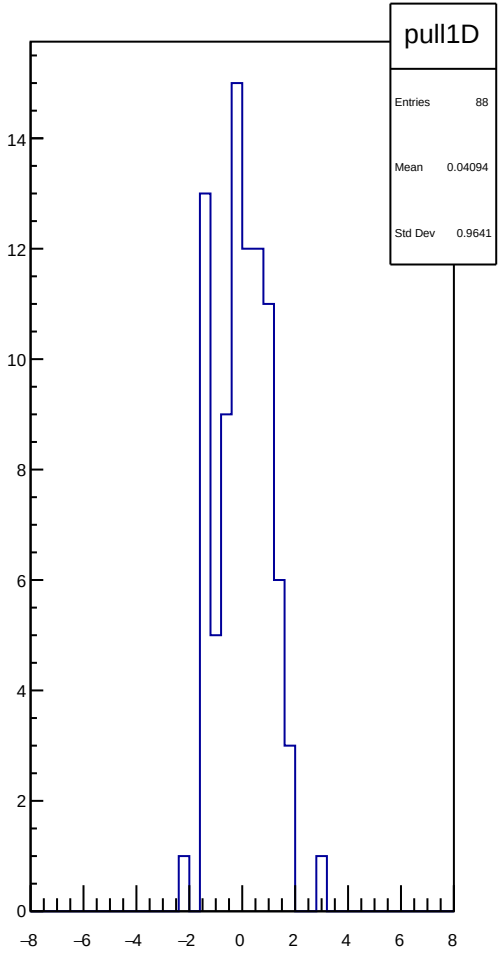

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.287e+04 / 87
p0 19.18 ± 0.01499
45
40
35
30
25
20
15

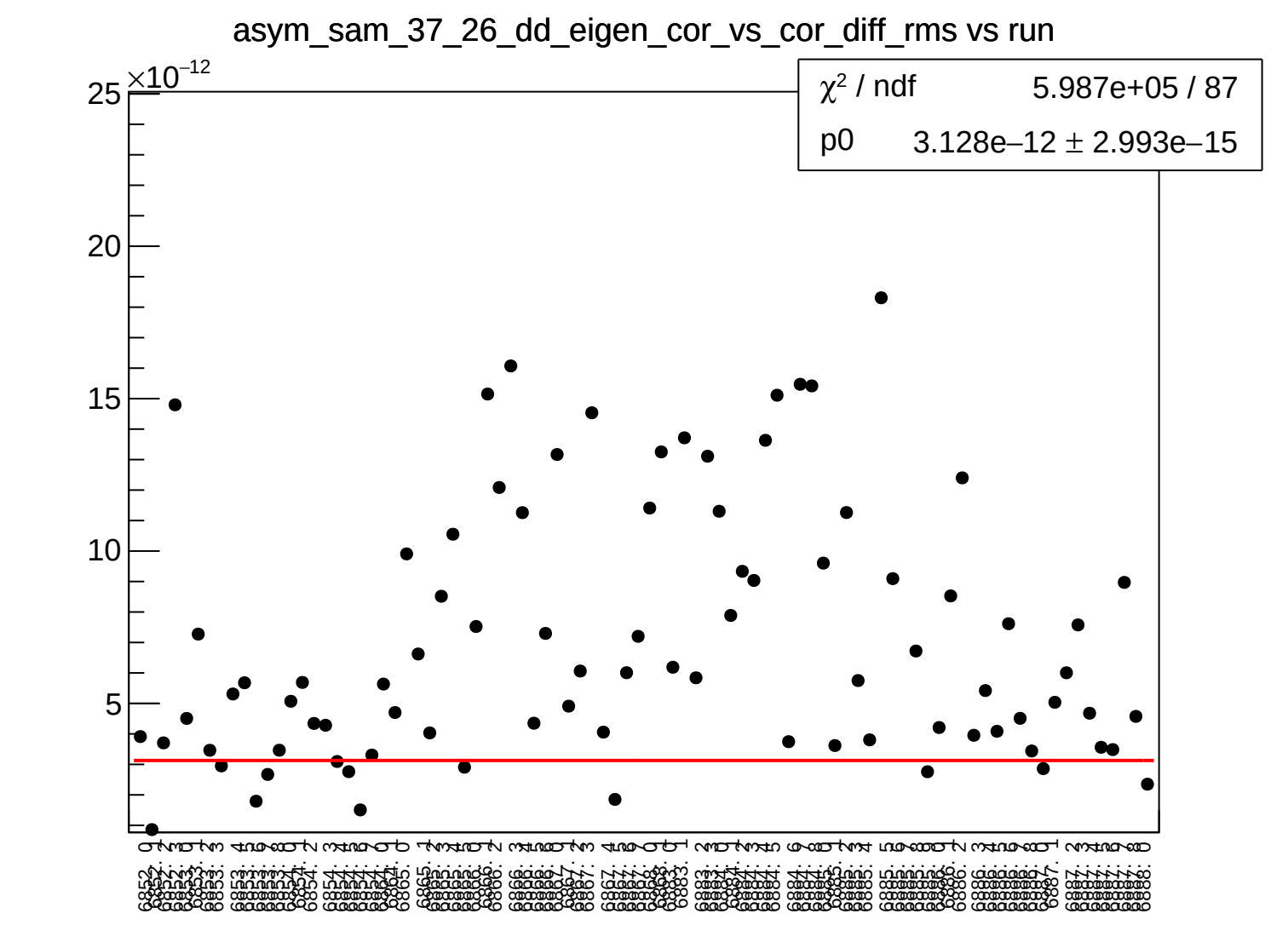

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.5 / 87
p0 0.003374 ± 0.0212
pull
Entries 88
Mean 44.4
Std Dev 0

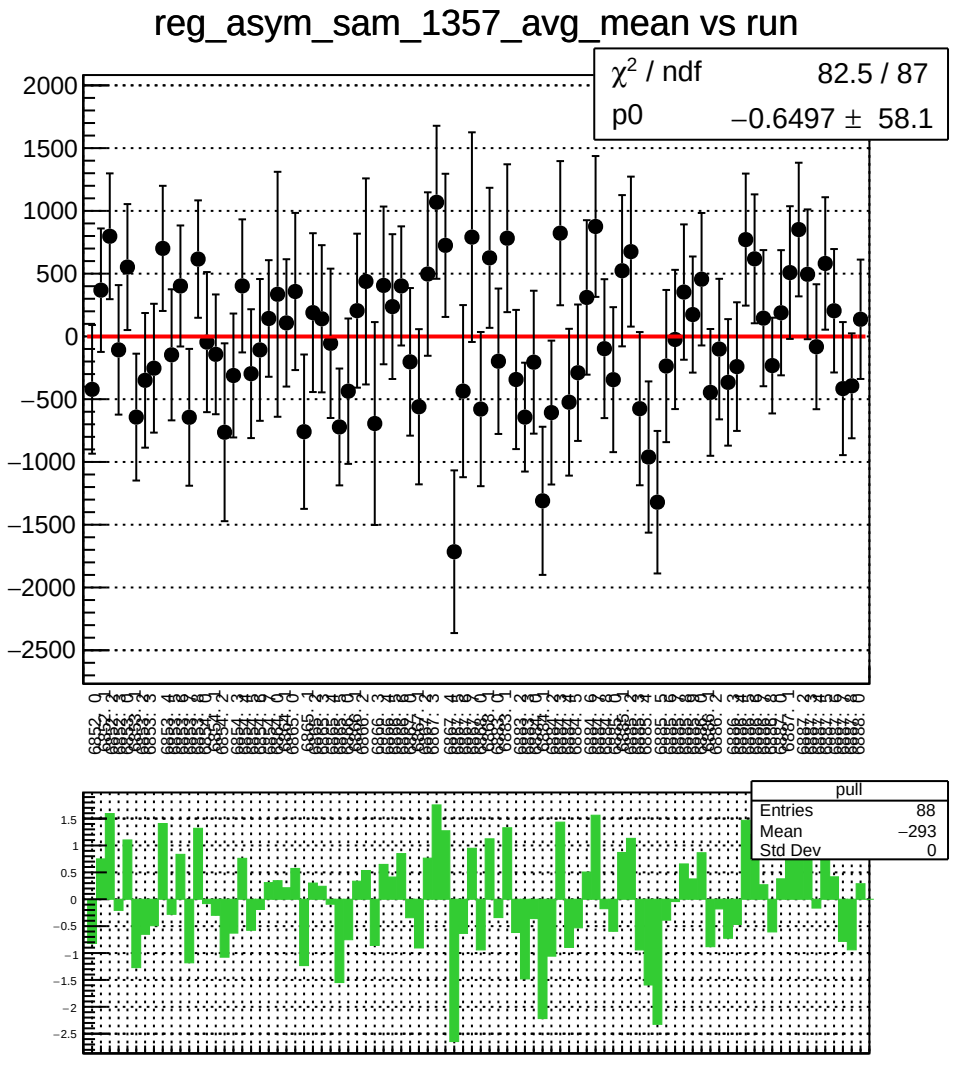

pull1D
Entries 88
Mean 0.01769
Std Dev 1.036

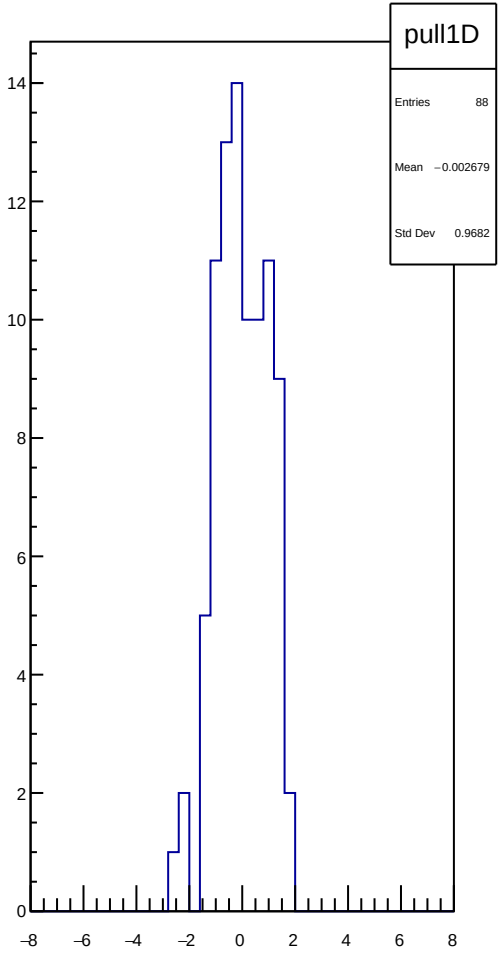

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.287e+04 / 87
p0 19.18 ± 0.01499
45
40
35
30
25
20
15

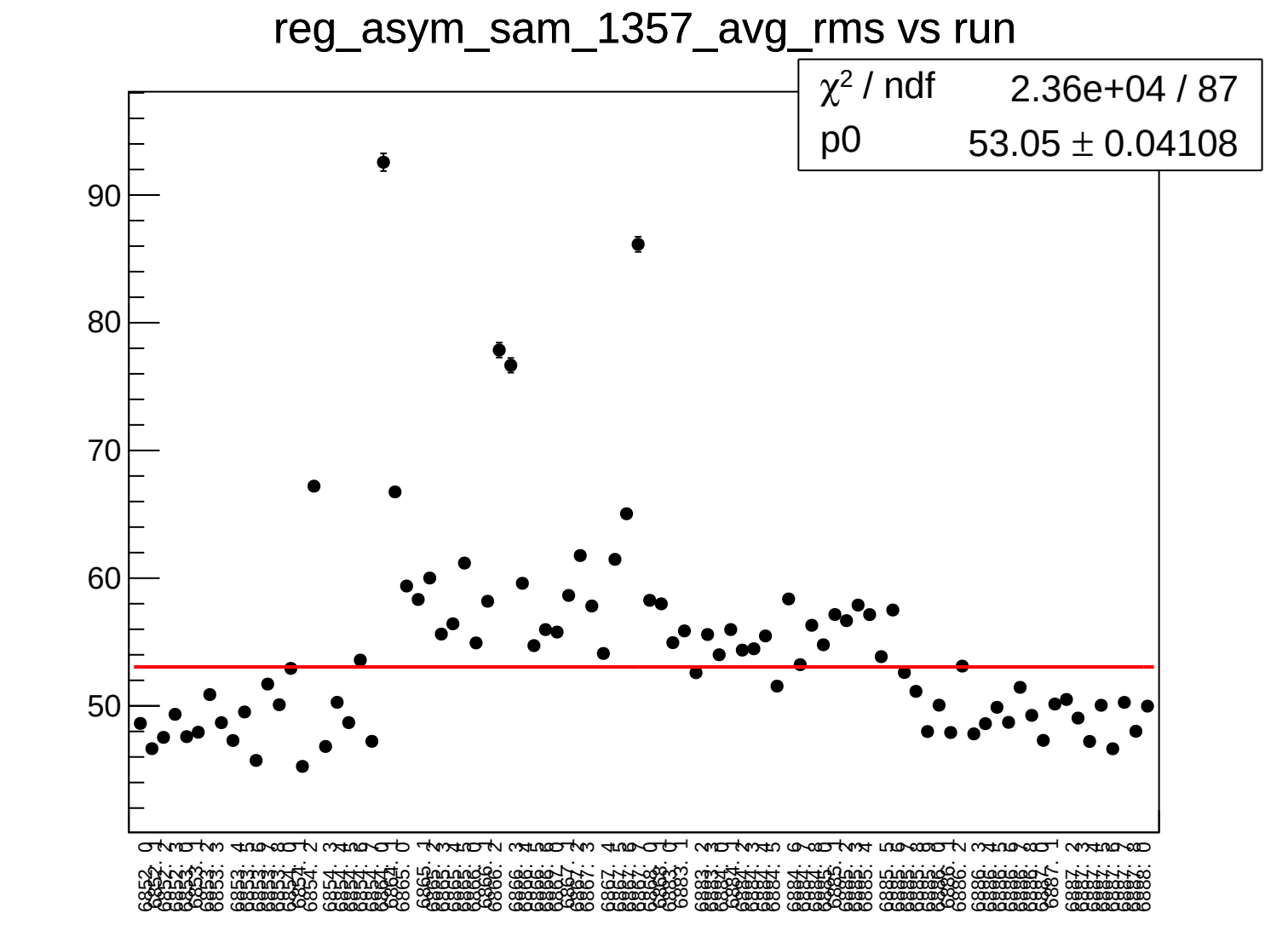

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.95 / 87
p0 5.227e−15 ± 4.233e−15
pull
Entries 88
Mean 29.85
Std Dev 23.38

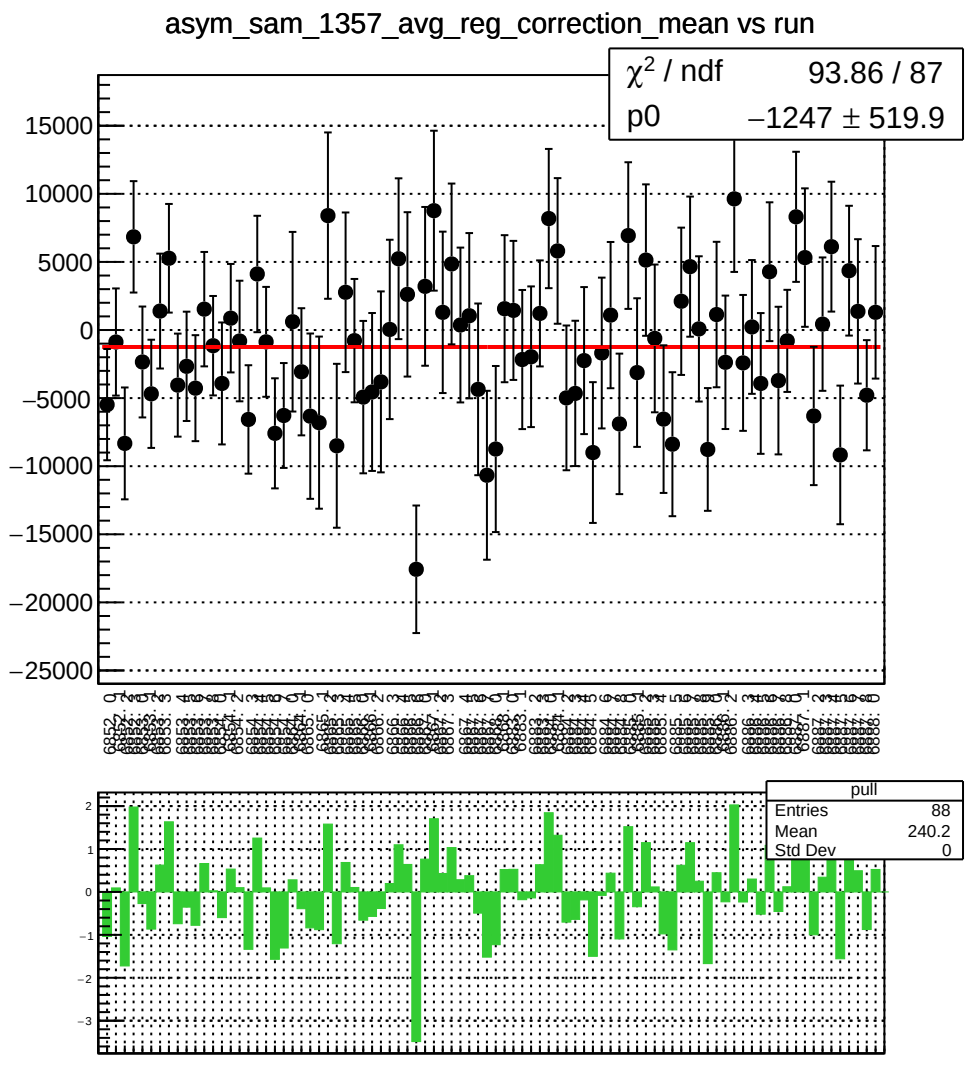

pull1D
Entries 88
Mean 0.04094
Std Dev 0.9641

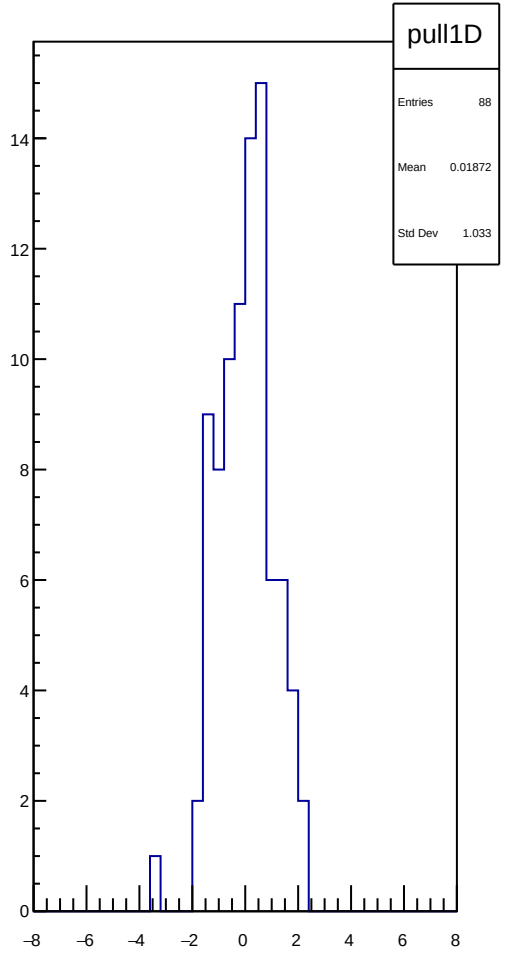

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
25
20
15
10
5
χ² / ndf 5.987e+05 / 87
p0 3.128e−12 ± 2.993e−15

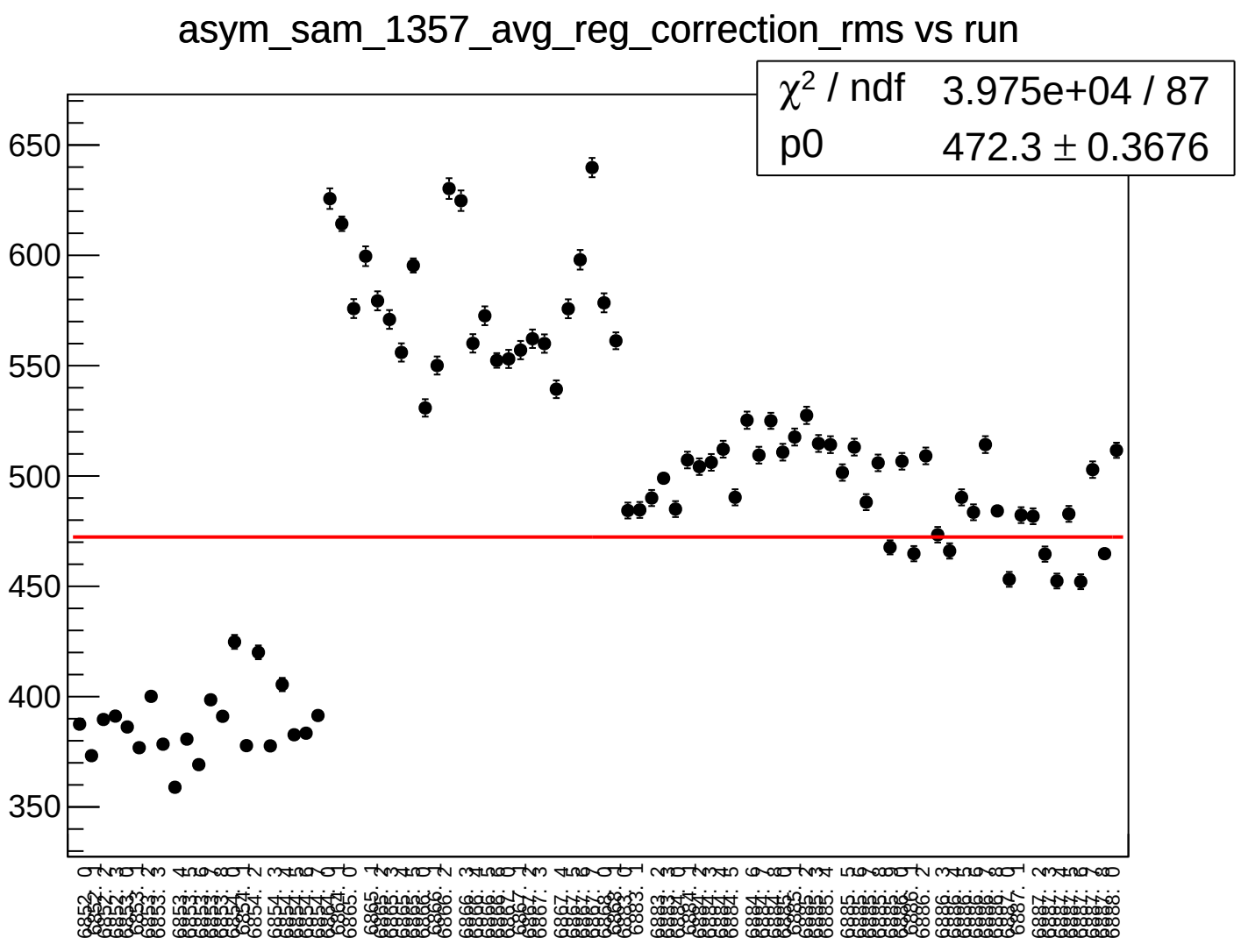

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 82.5 / 87
p0 −0.6497 ± 58.1
pull
Entries 88
Mean −293
Std Dev 0

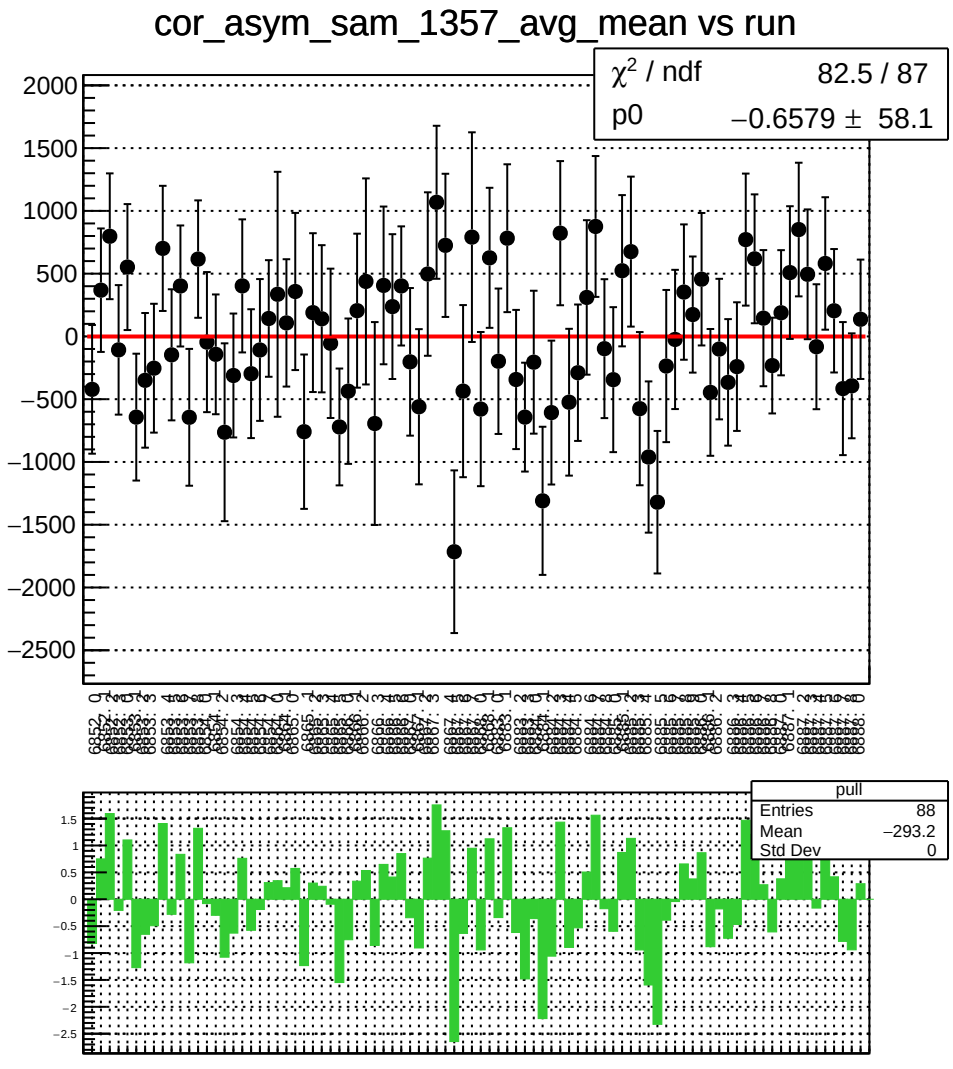

pull1D
Entries 88
Mean −0.002679
Std Dev 0.9682

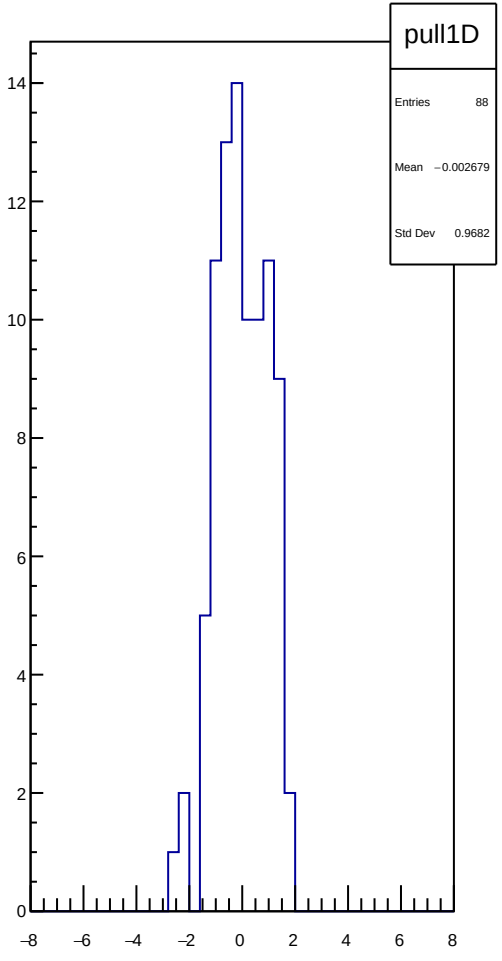

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 2.36e+04 / 87
p0 53.05 ± 0.04108
90
80
70
60
50

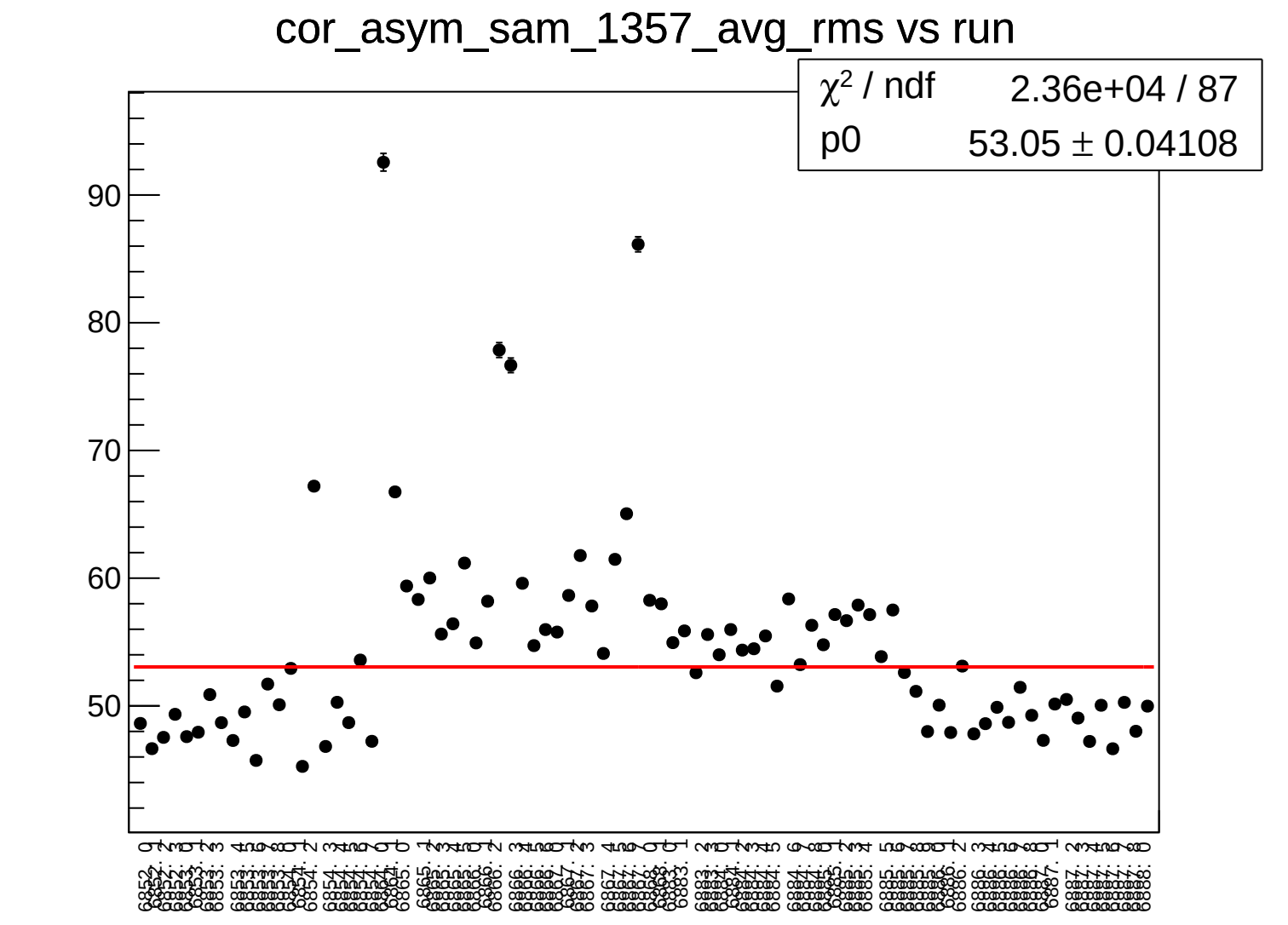

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 93.86 / 87
p0 −1247 ± 519.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 240.2
Std Dev 0
2
1
0
−1
−2
−3

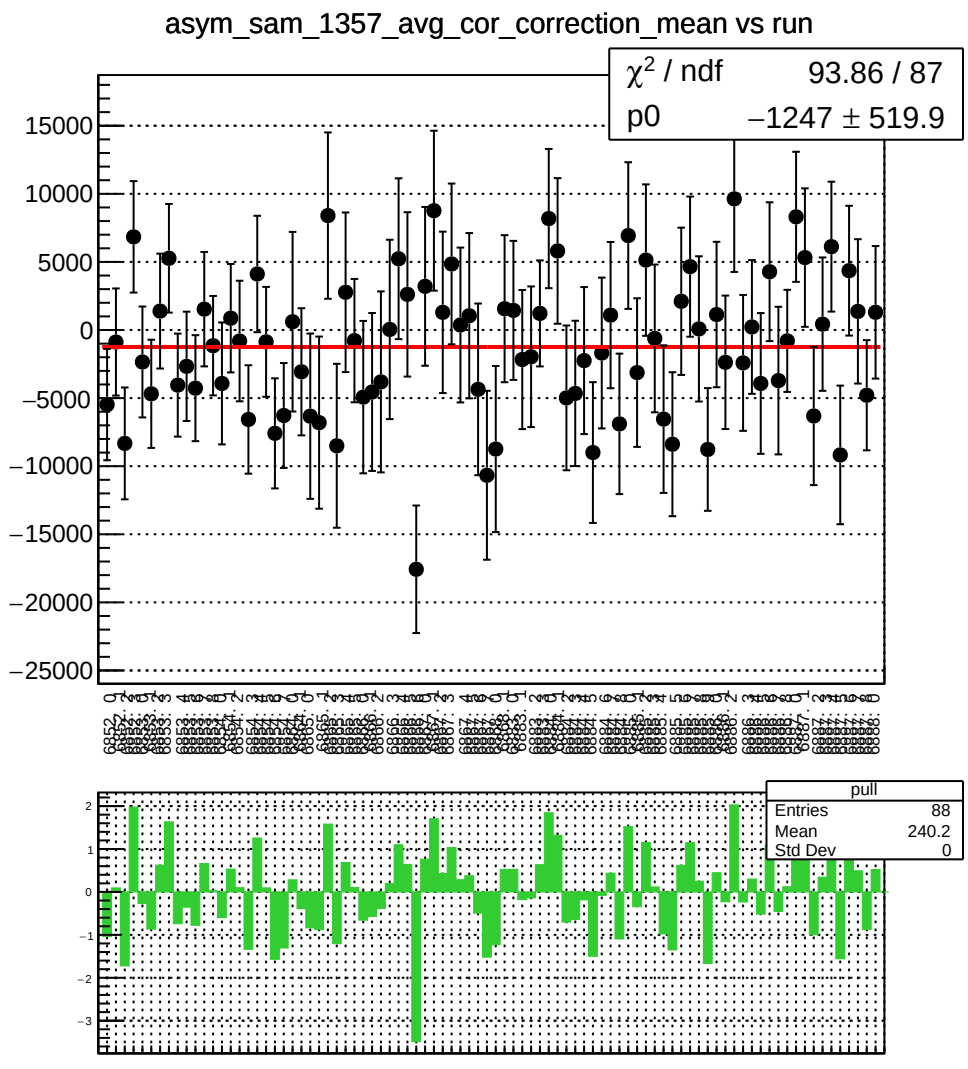

pull1D
Entries 88
Mean 0.01872
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

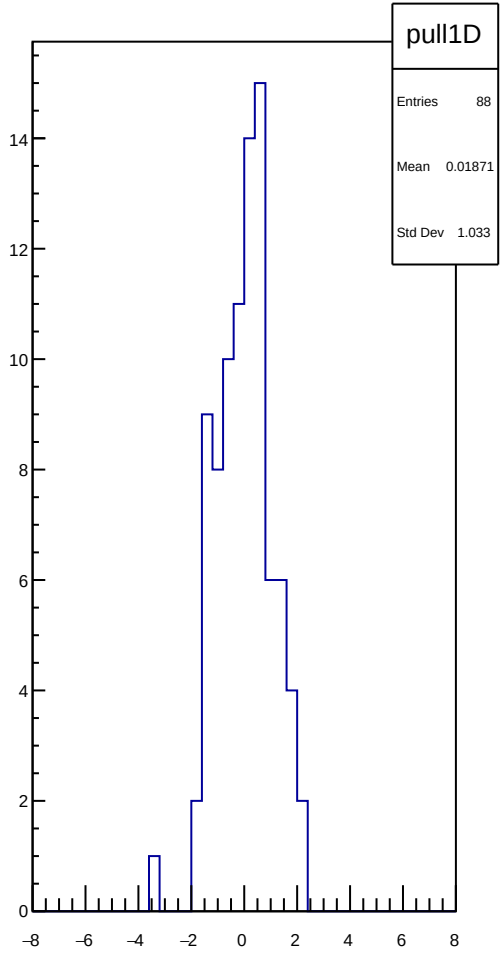

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 3.975e+04 / 87
p0 472.3 ± 0.3676
650
600
550
500
450
400
350

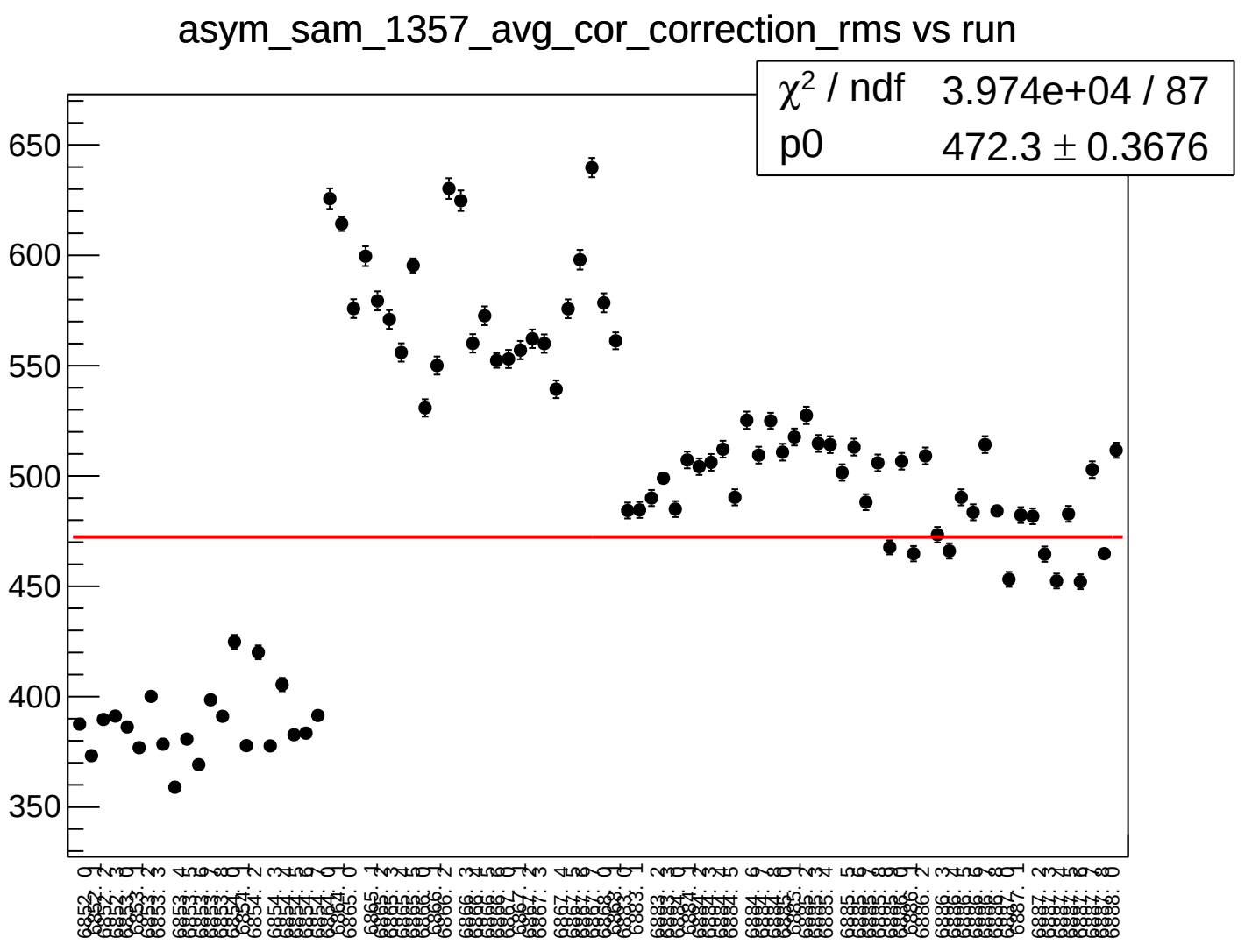

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 82.5 / 87
p0 −0.6579 ± 58.1
pull
Entries 88
Mean −293.2
Std Dev 0

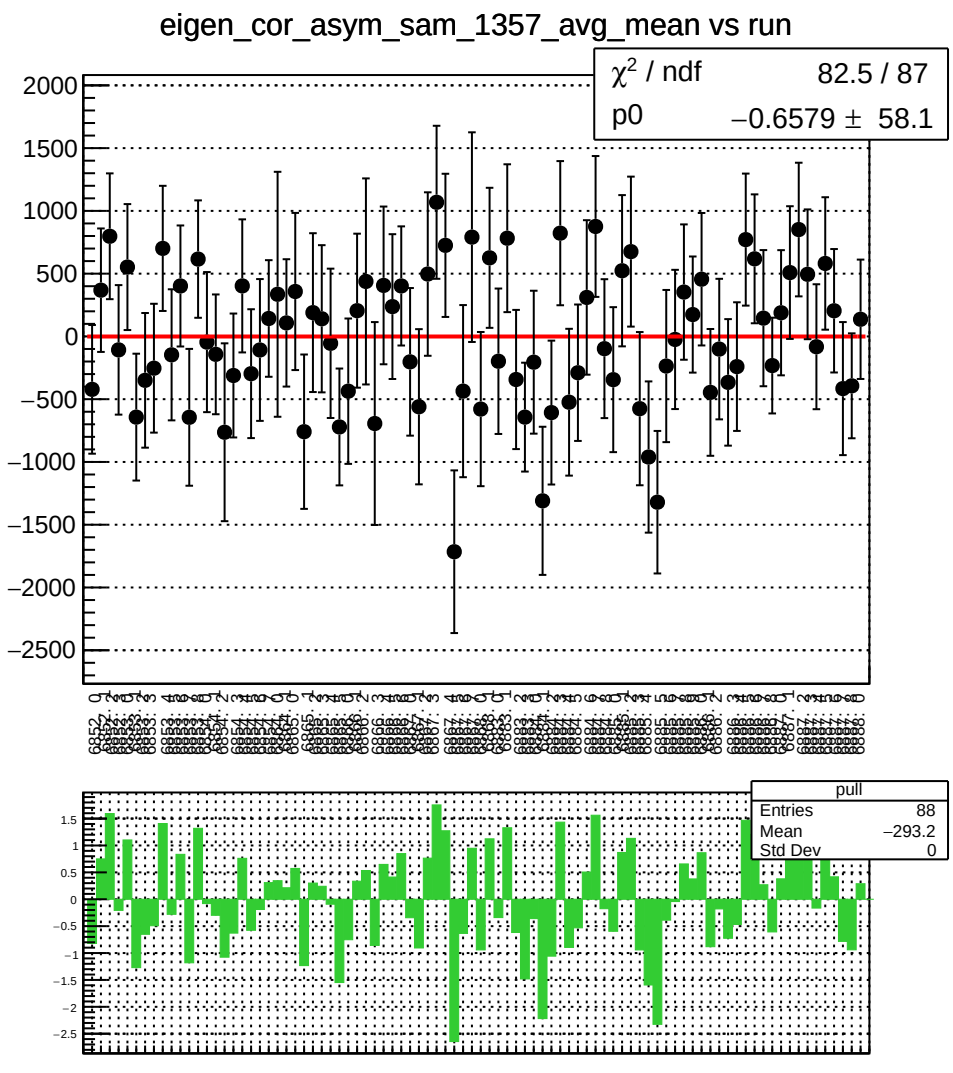

pull1D
Entries 88
Mean −0.002679
Std Dev 0.9682

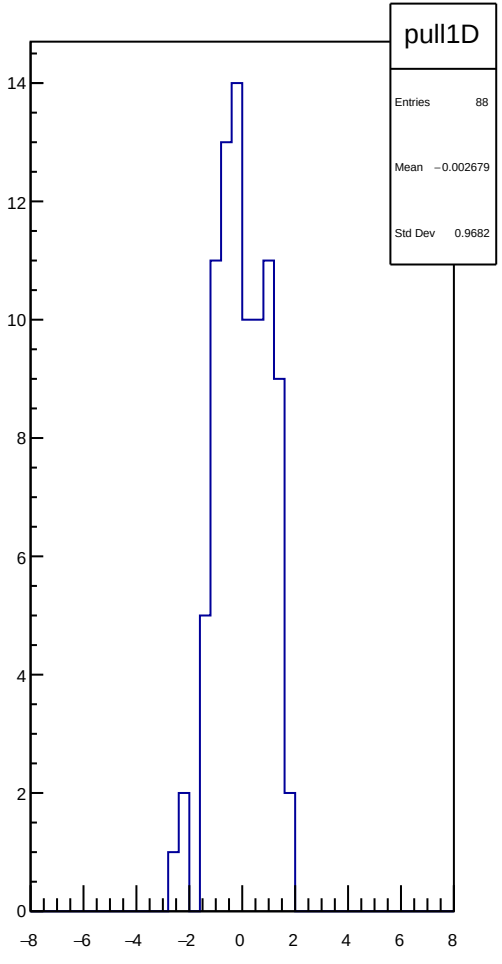

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.36e+04 / 87
p0 53.05 ± 0.04108
90
80
70
60
50

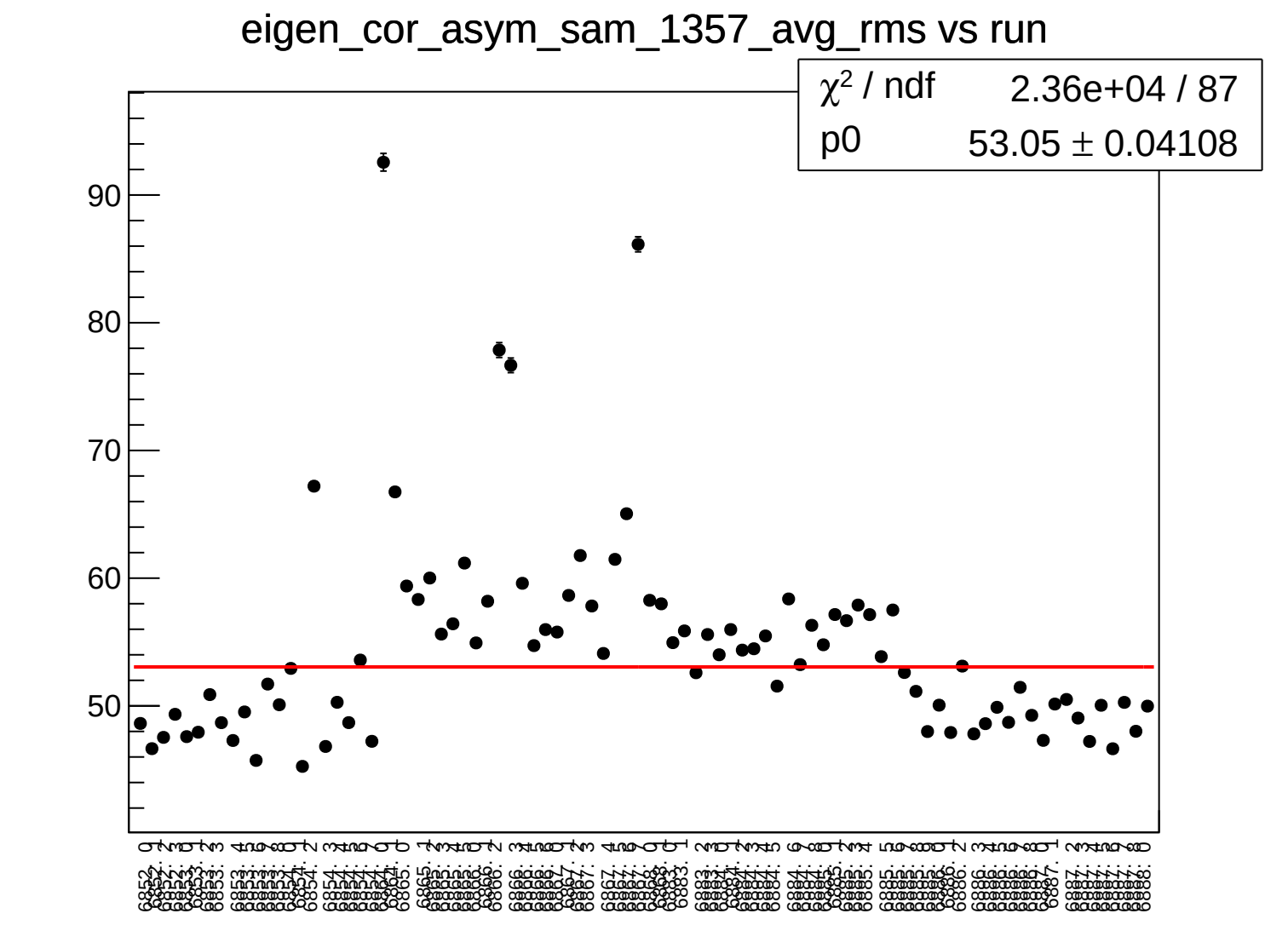

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 93.86 / 87
p0 −1247 ± 519.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 240.2
Std Dev 0
2
1
0
−1
−2
−3

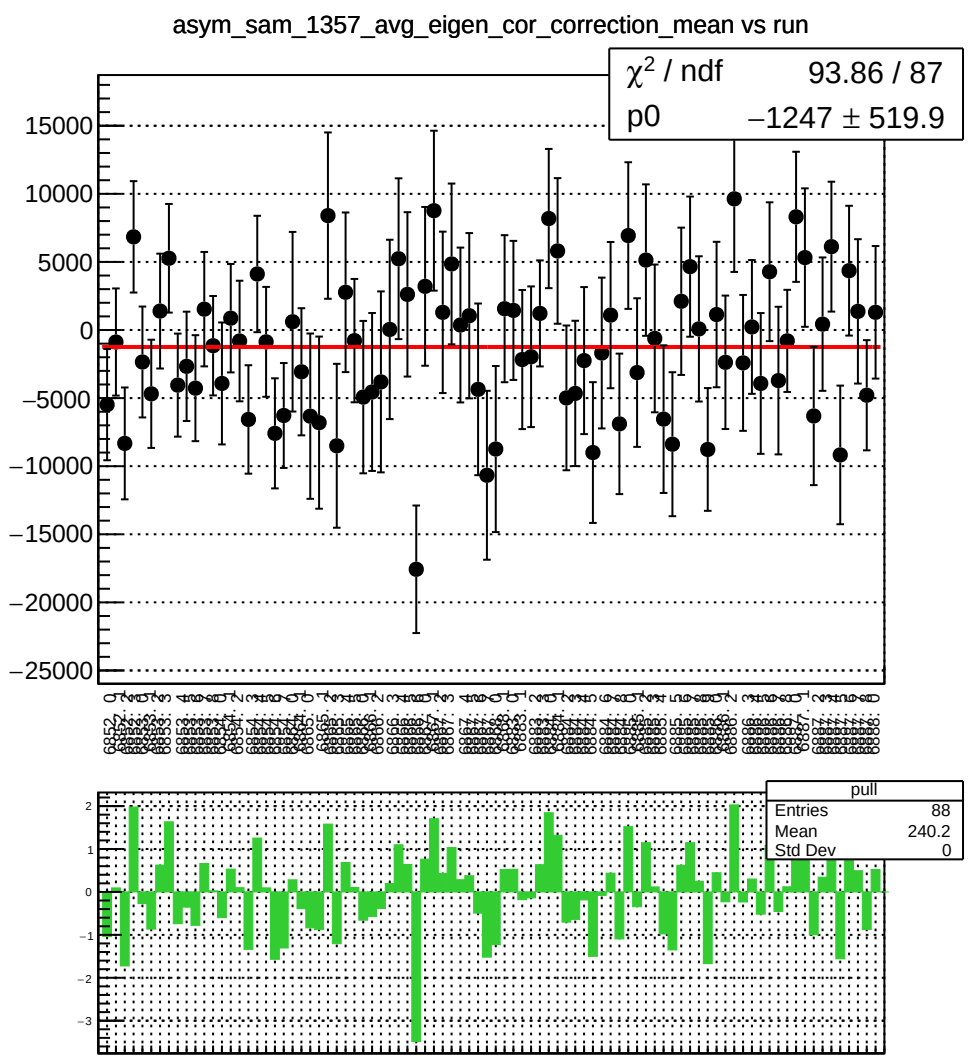

pull1D
Entries 88
Mean 0.01871
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

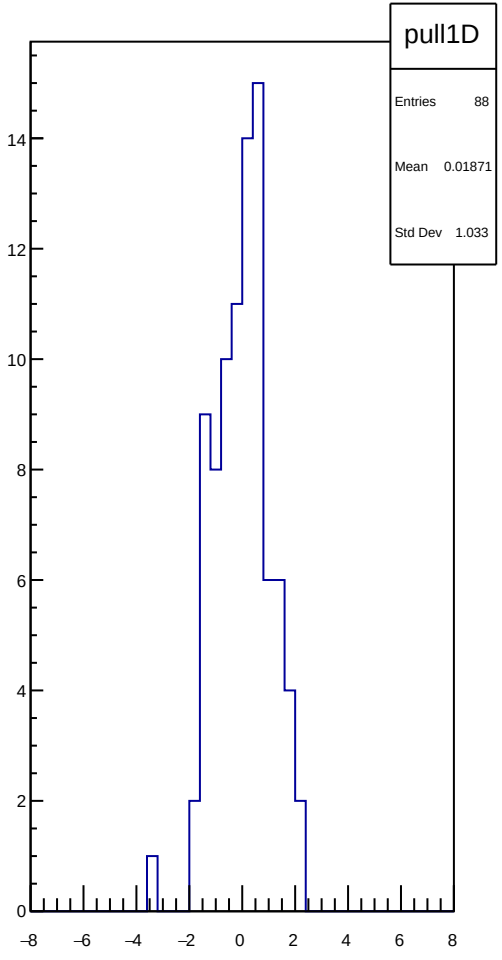

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 3.974e+04 / 87
p0 472.3 ± 0.3676
650
600
550
500
450
400
350

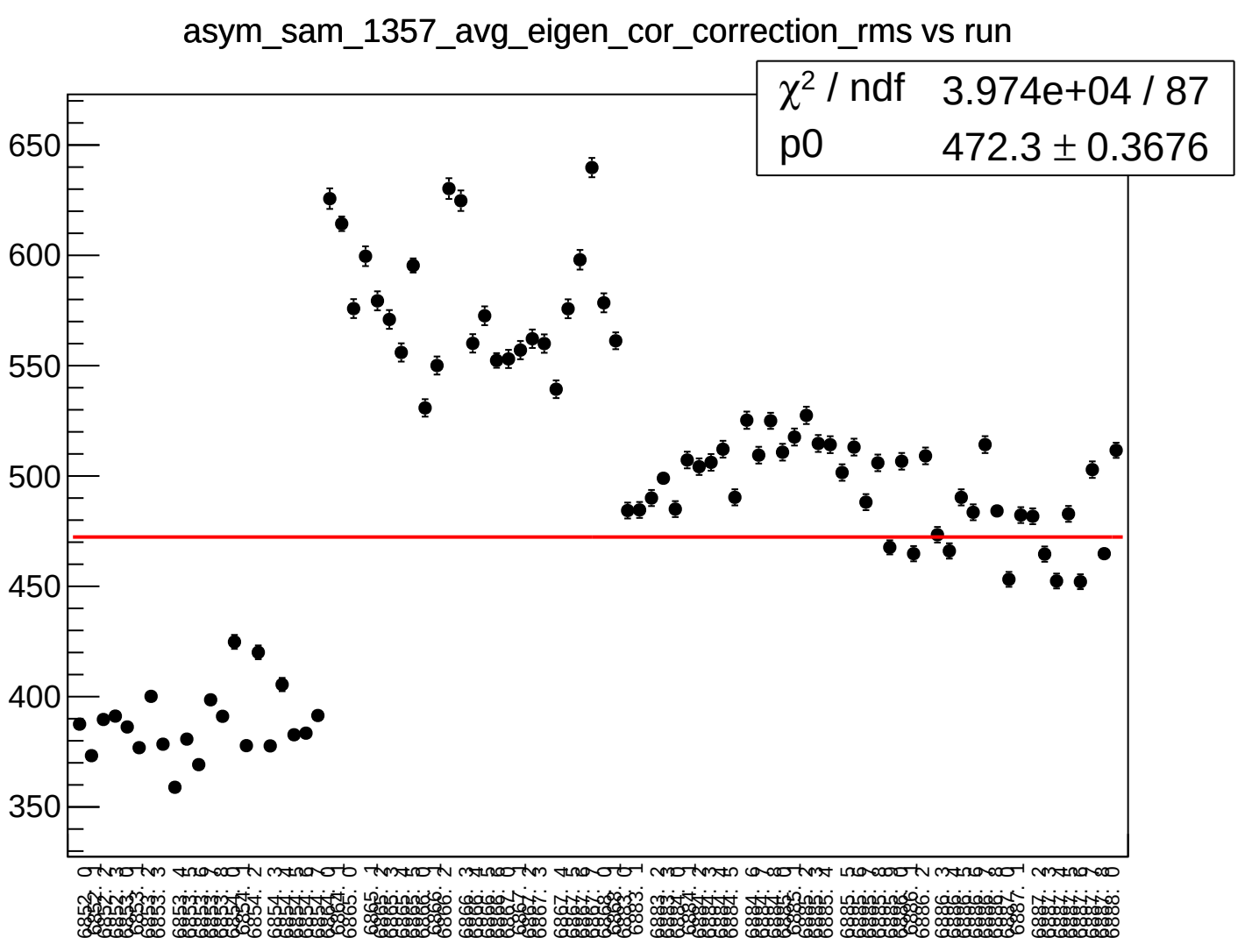

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 82.5 / 87
p0 −0.6579 ± 58.1
pull
Entries 88
Mean −293.2
Std Dev 0

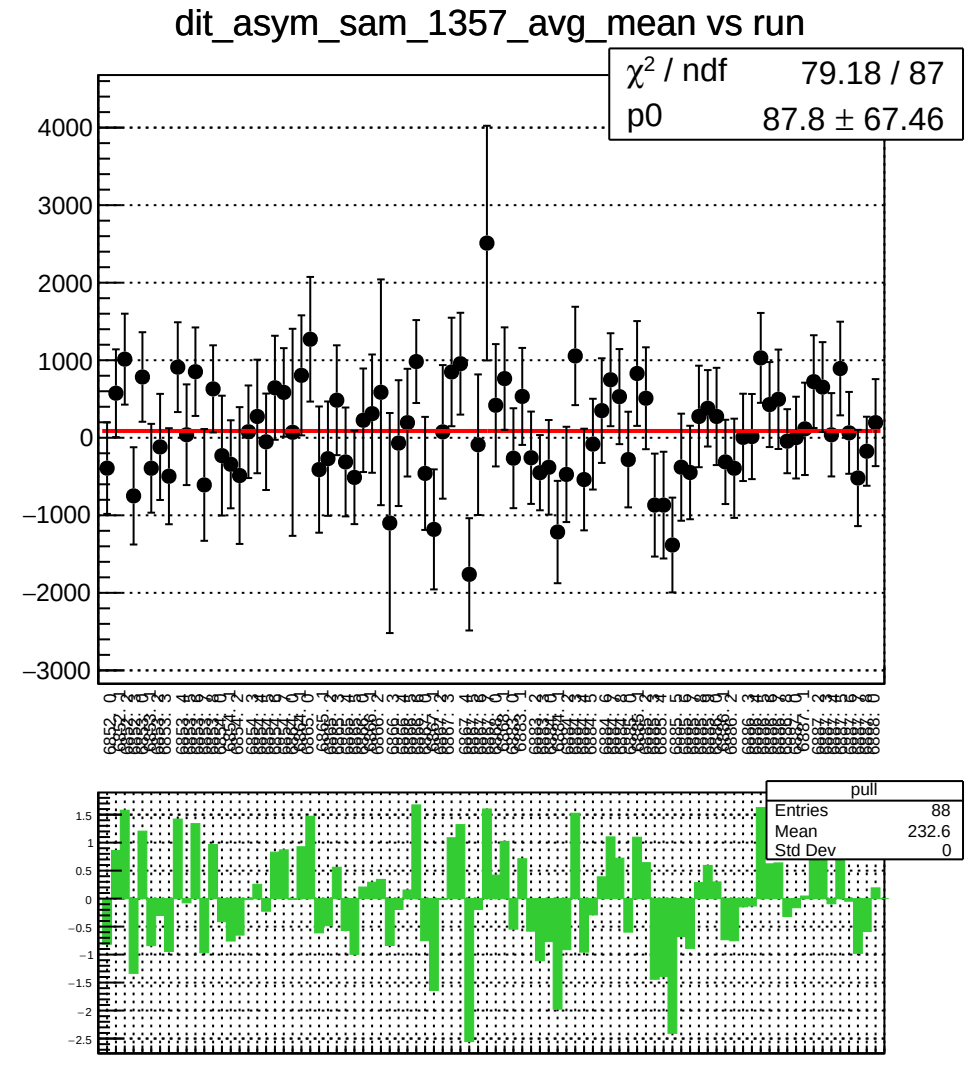

pull1D
Entries 88
Mean −0.002679
Std Dev 0.9682

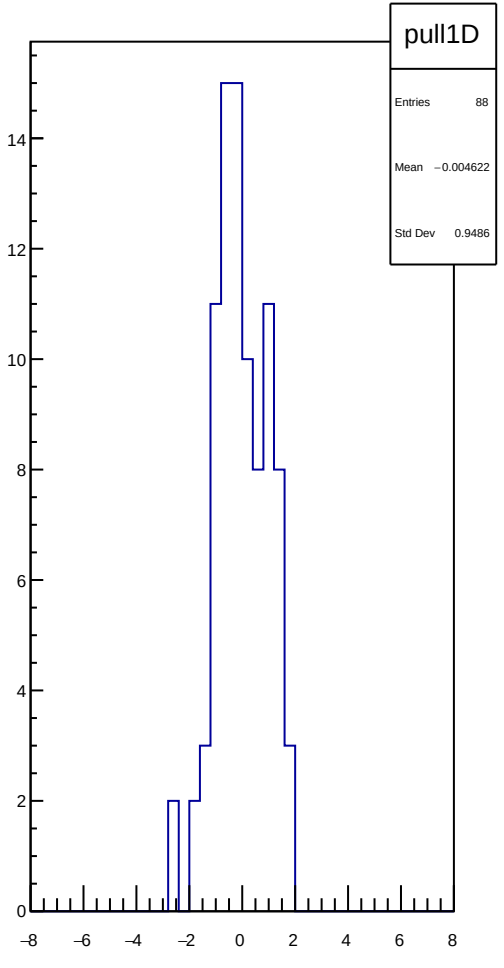

eigen_cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.36e+04 / 87
p0 53.05 ± 0.04108
90
80
70
60
50

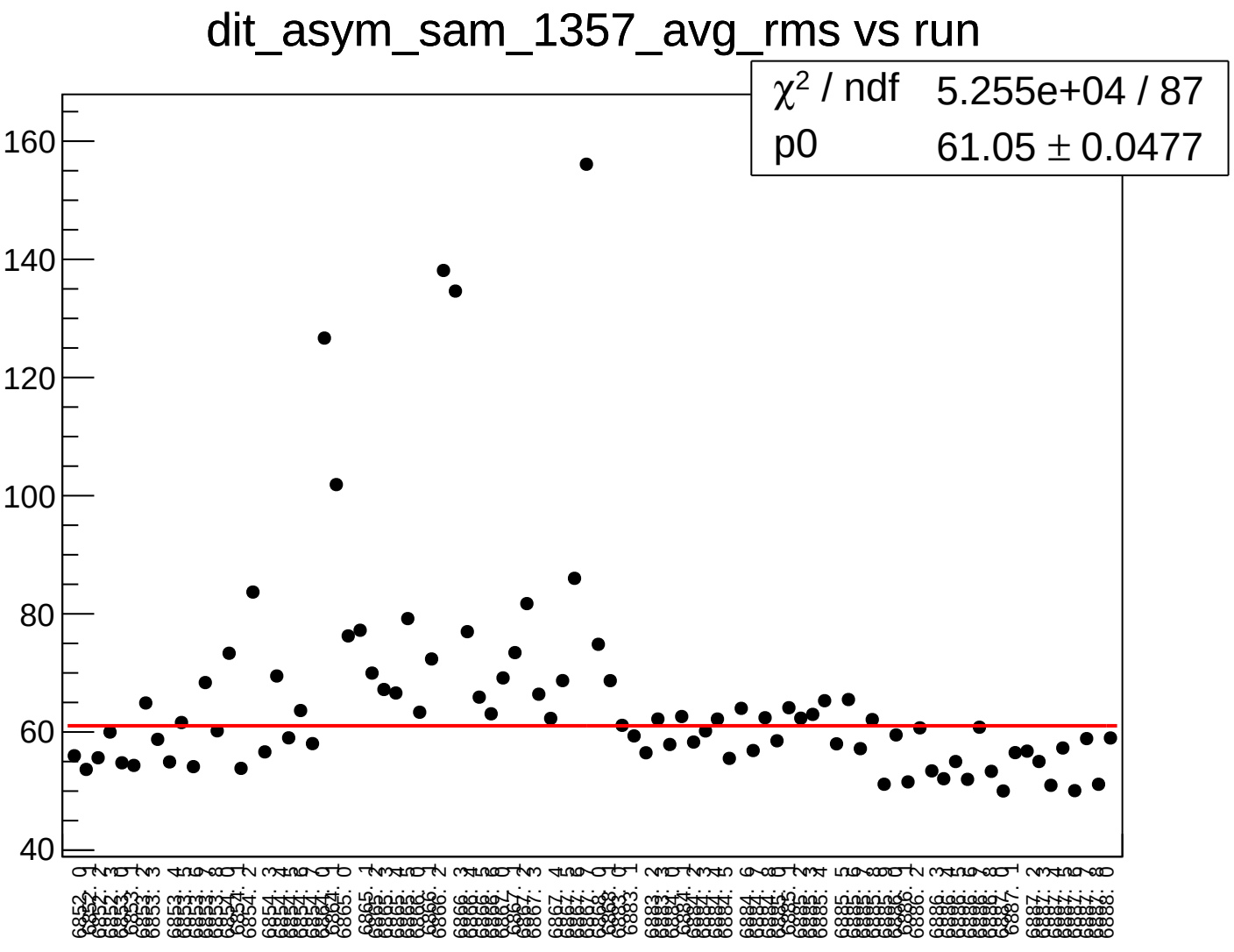

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 93.86 / 87
p0 −1247 ± 519.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 240.2
Std Dev 0
2
1
0
−1
−2
−3

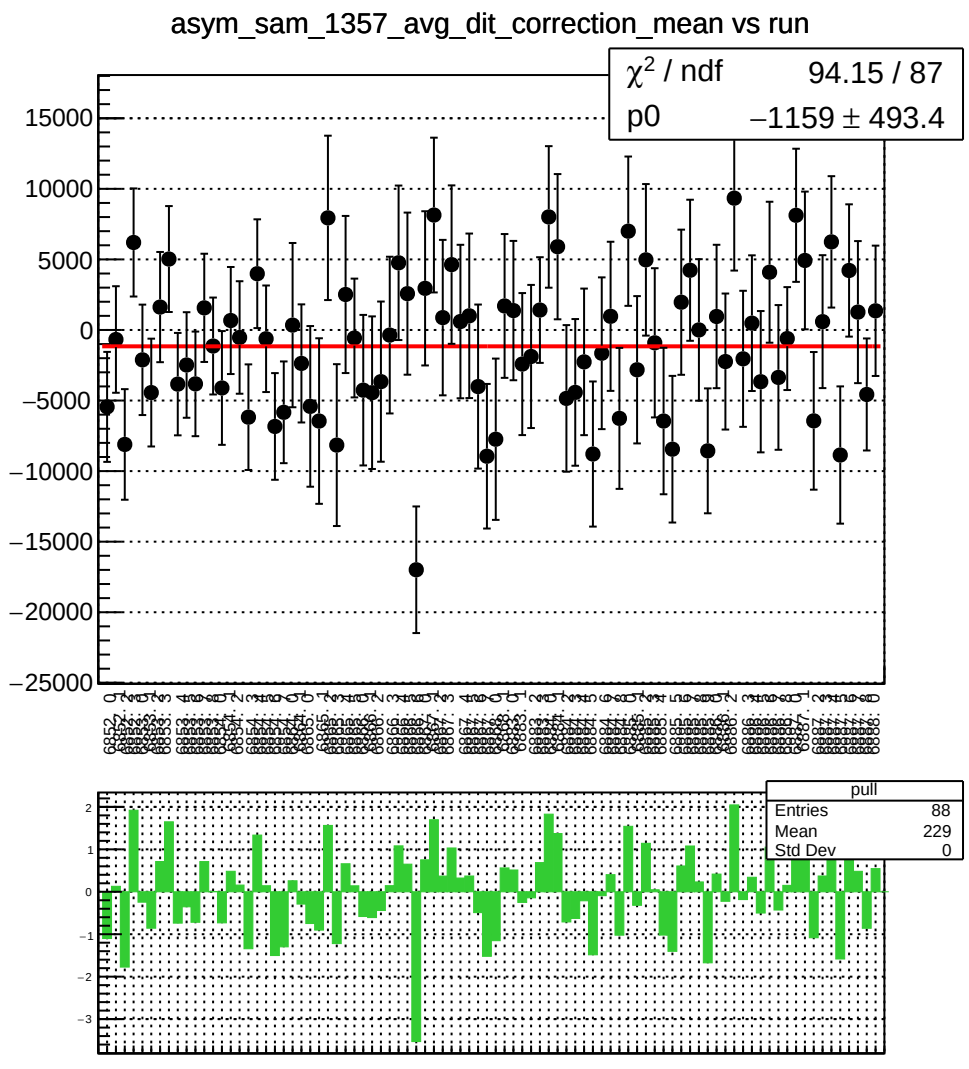

pull1D
Entries 88
Mean 0.01871
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

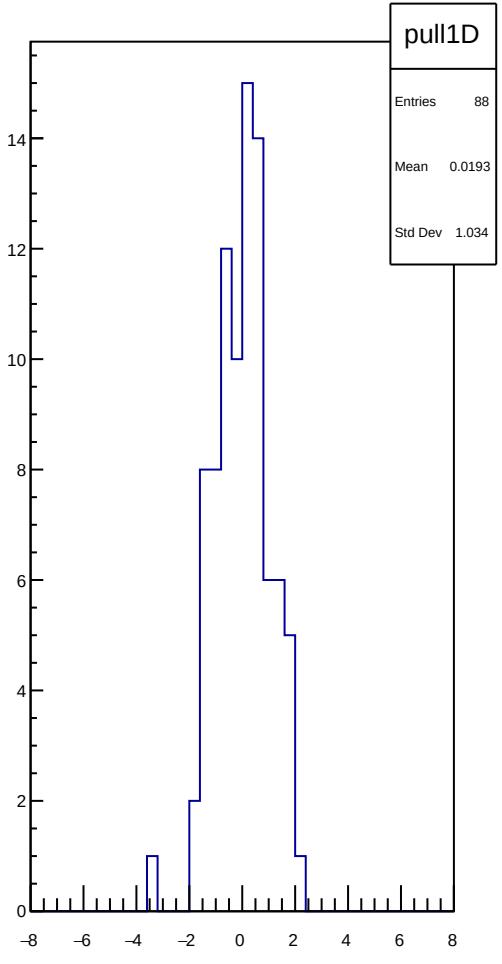

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.974e+04 / 87
p0 472.3 ± 0.3676
650
600
550
500
450
400
350

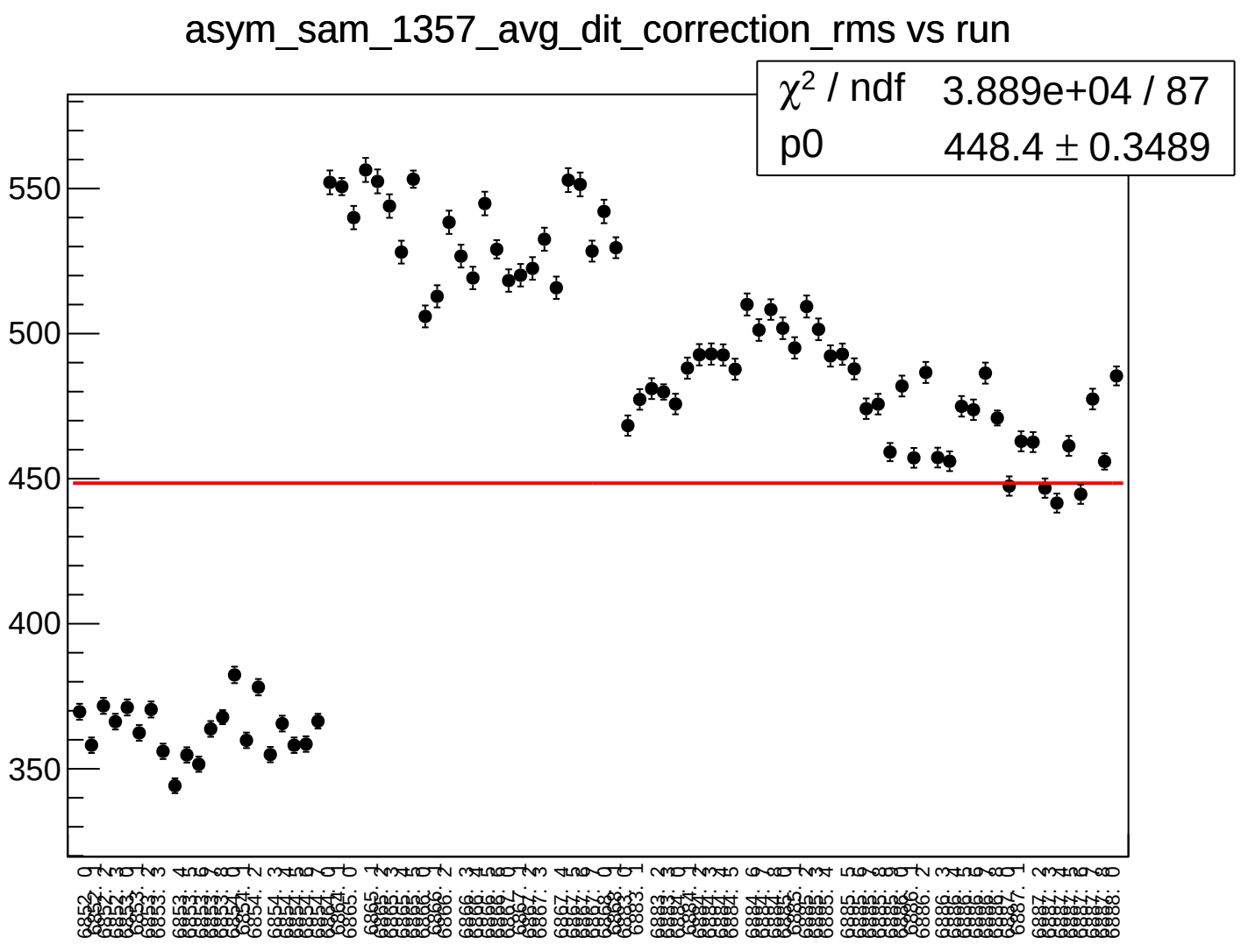

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 79.18 / 87
p0 87.8 ± 67.46
pull
Entries 88
Mean 232.6
Std Dev 0

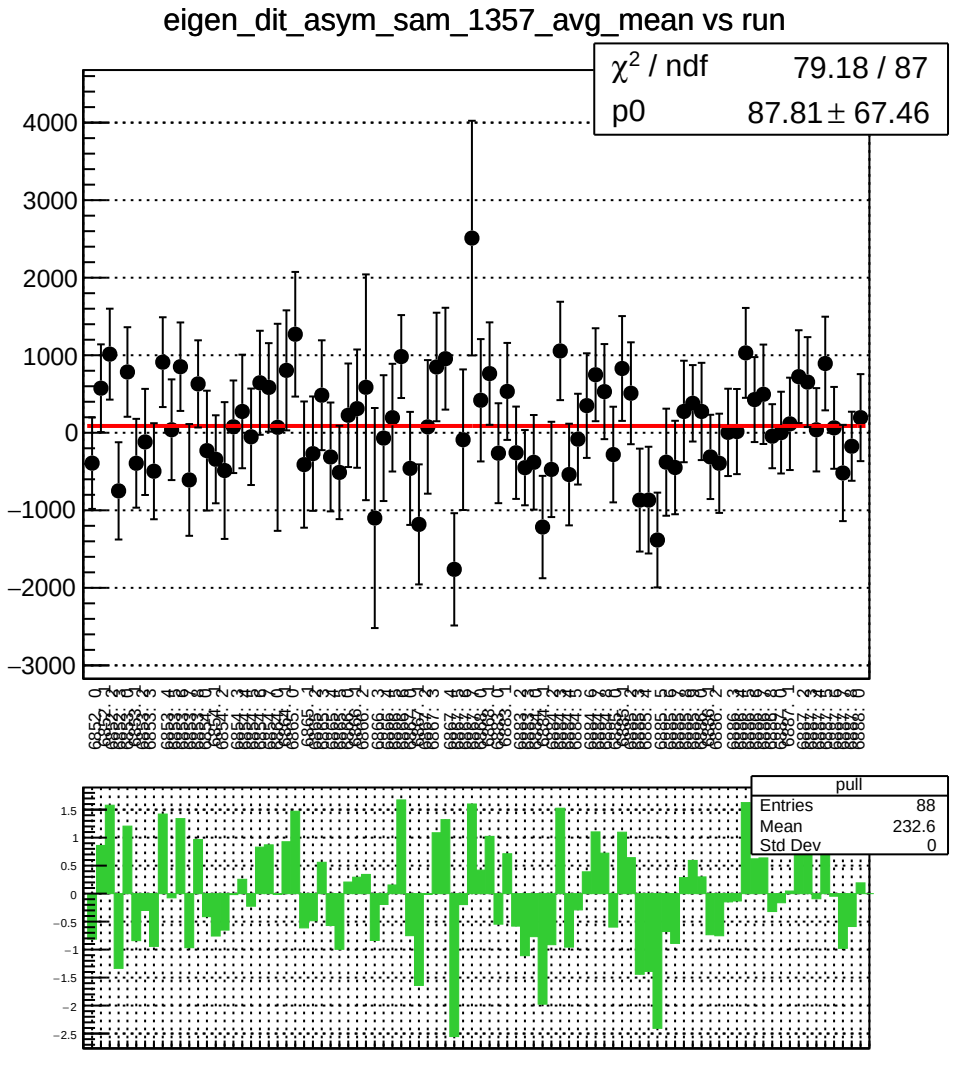

pull1D
Entries 88
Mean −0.004622
Std Dev 0.9486

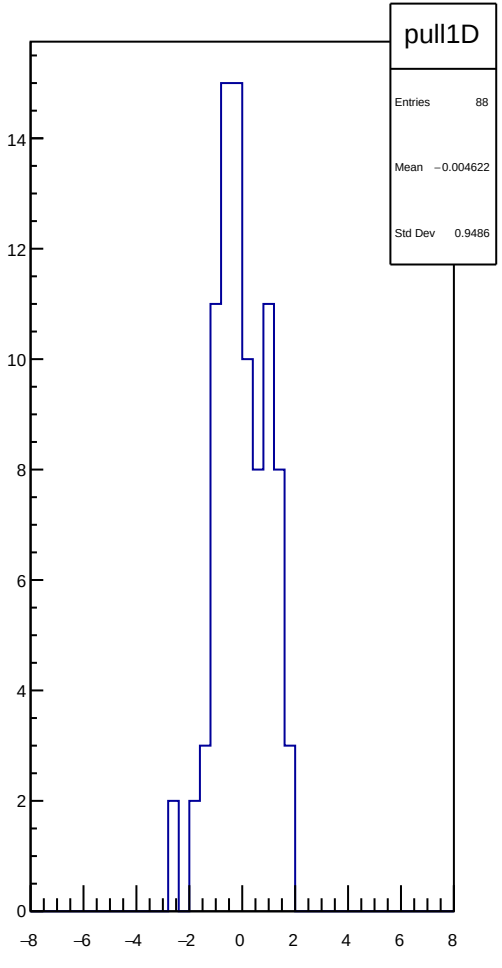

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 5.255e+04 / 87
p0 61.05 ± 0.0477
160
140
120
100
80
60
40

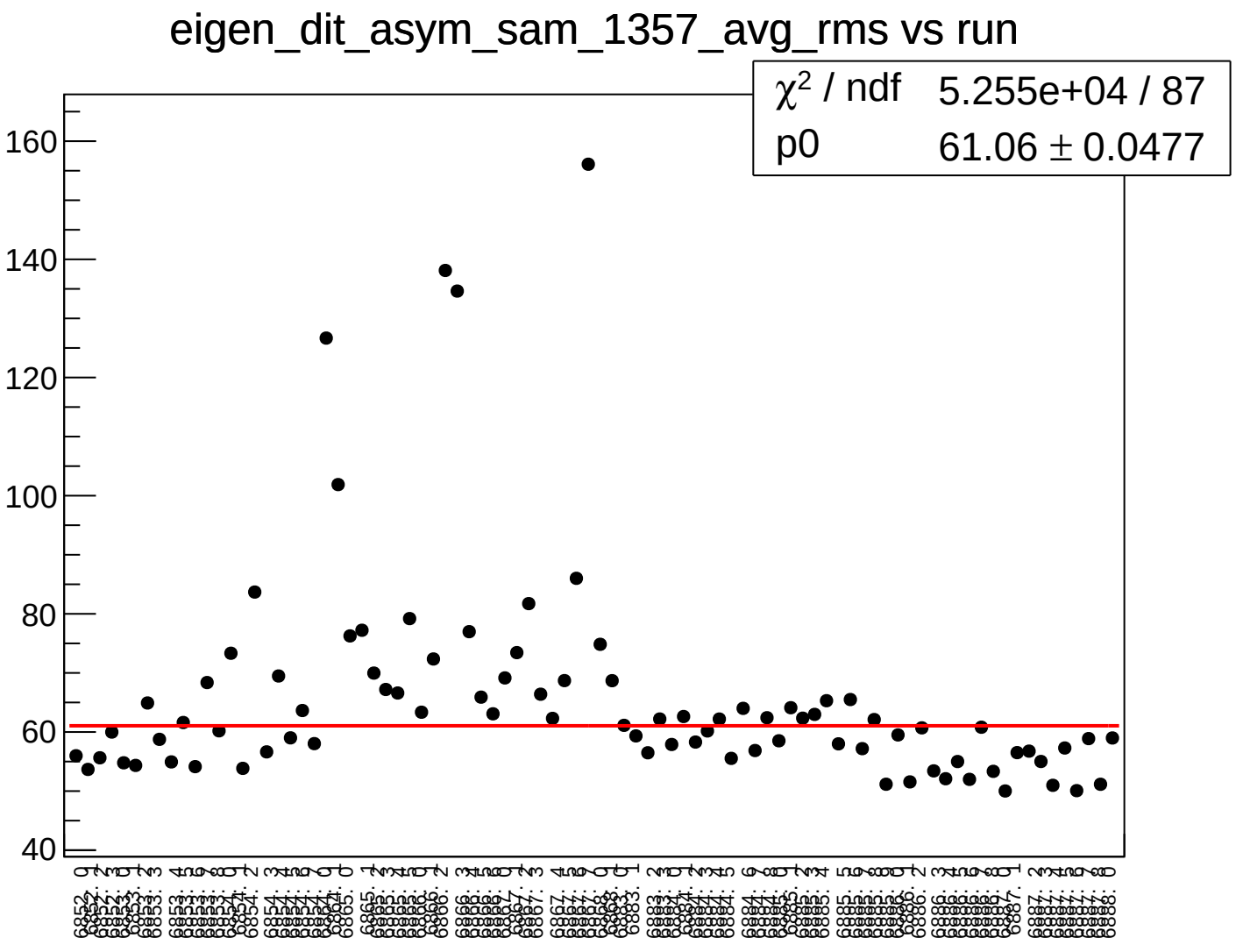

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 94.15 / 87
p0 −1159 ± 493.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 229
Std Dev 0
2
1
0
−1
−2
−3

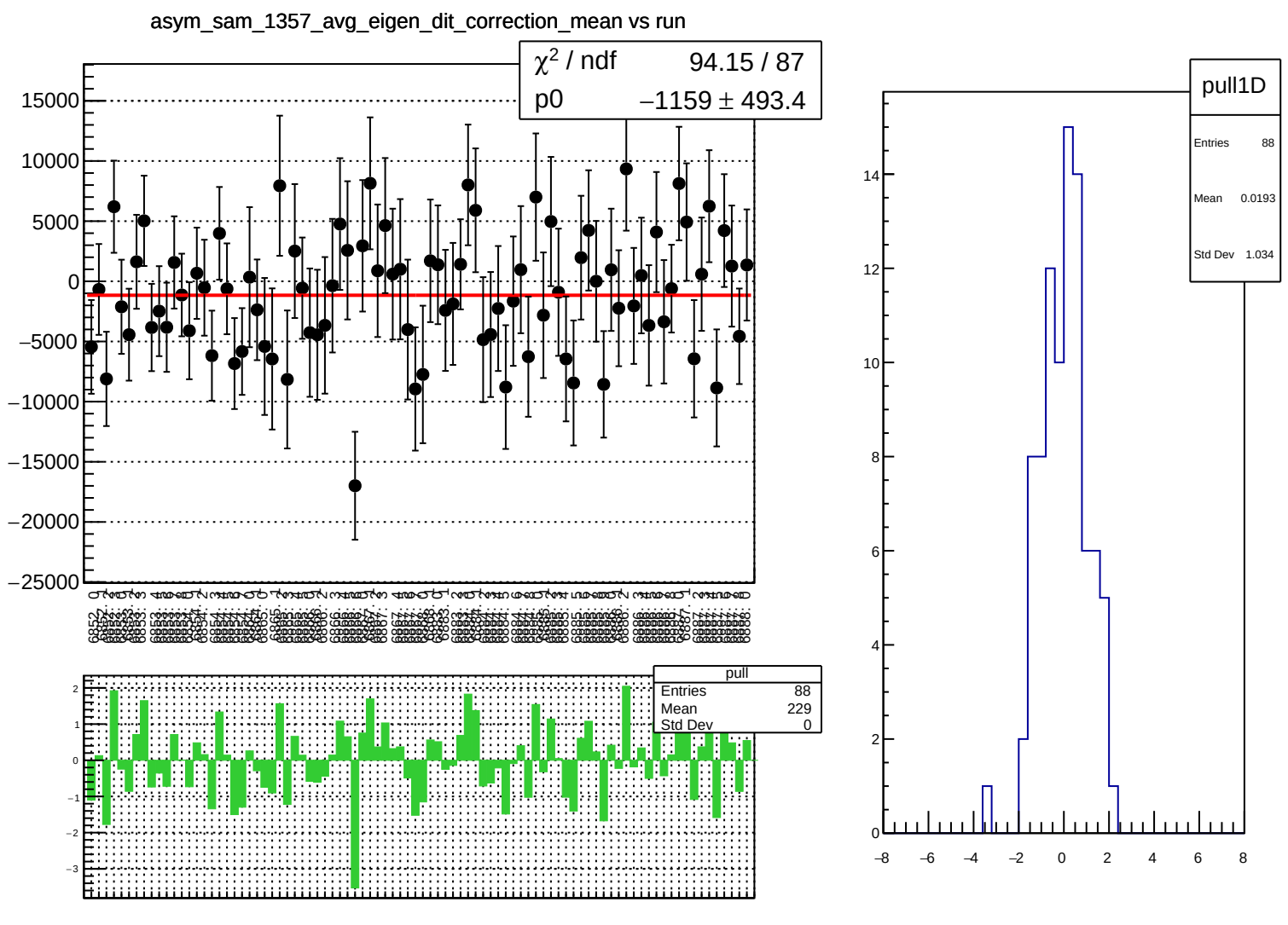

pull1D
Entries 88
Mean 0.0193
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

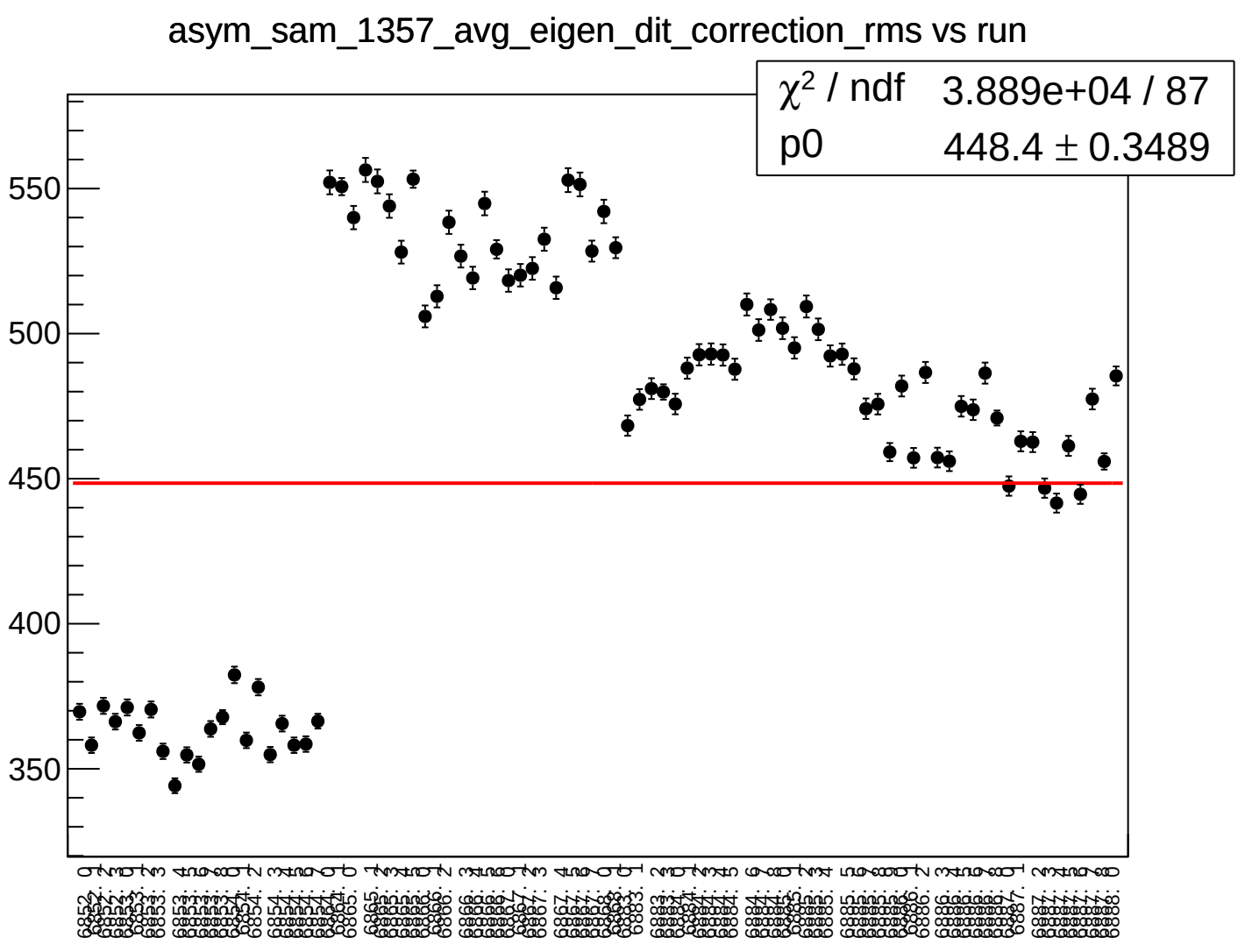

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 3.889e+04 / 87
p0 448.4 ± 0.3489
550
500
450
400
350

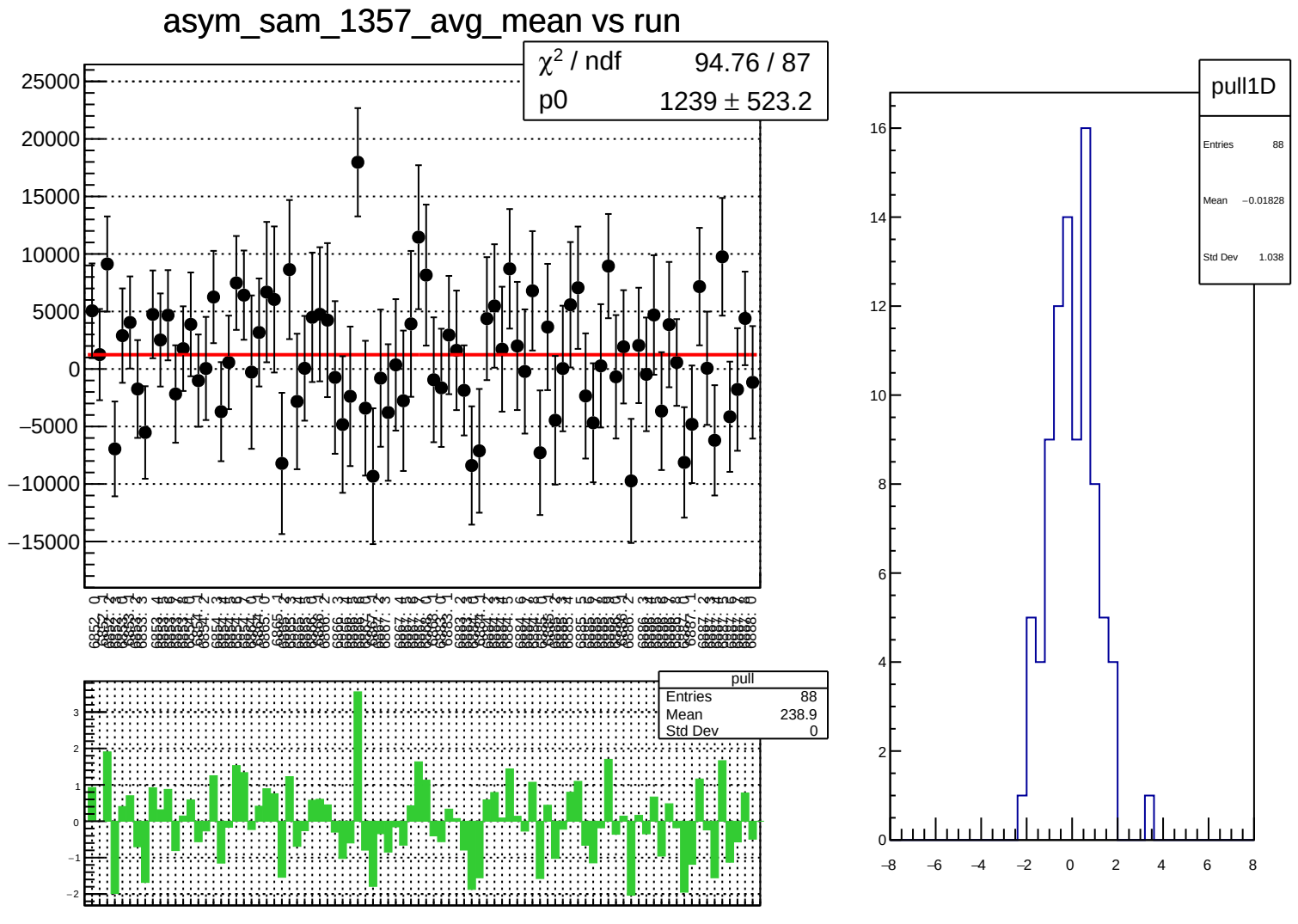

eigen_dit_asym_sam_1357_avg_mean vs run
χ^2 / ndf 79.18 / 87
p0 87.81 ± 67.46
pull
Entries 88
Mean 232.6
Std Dev 0

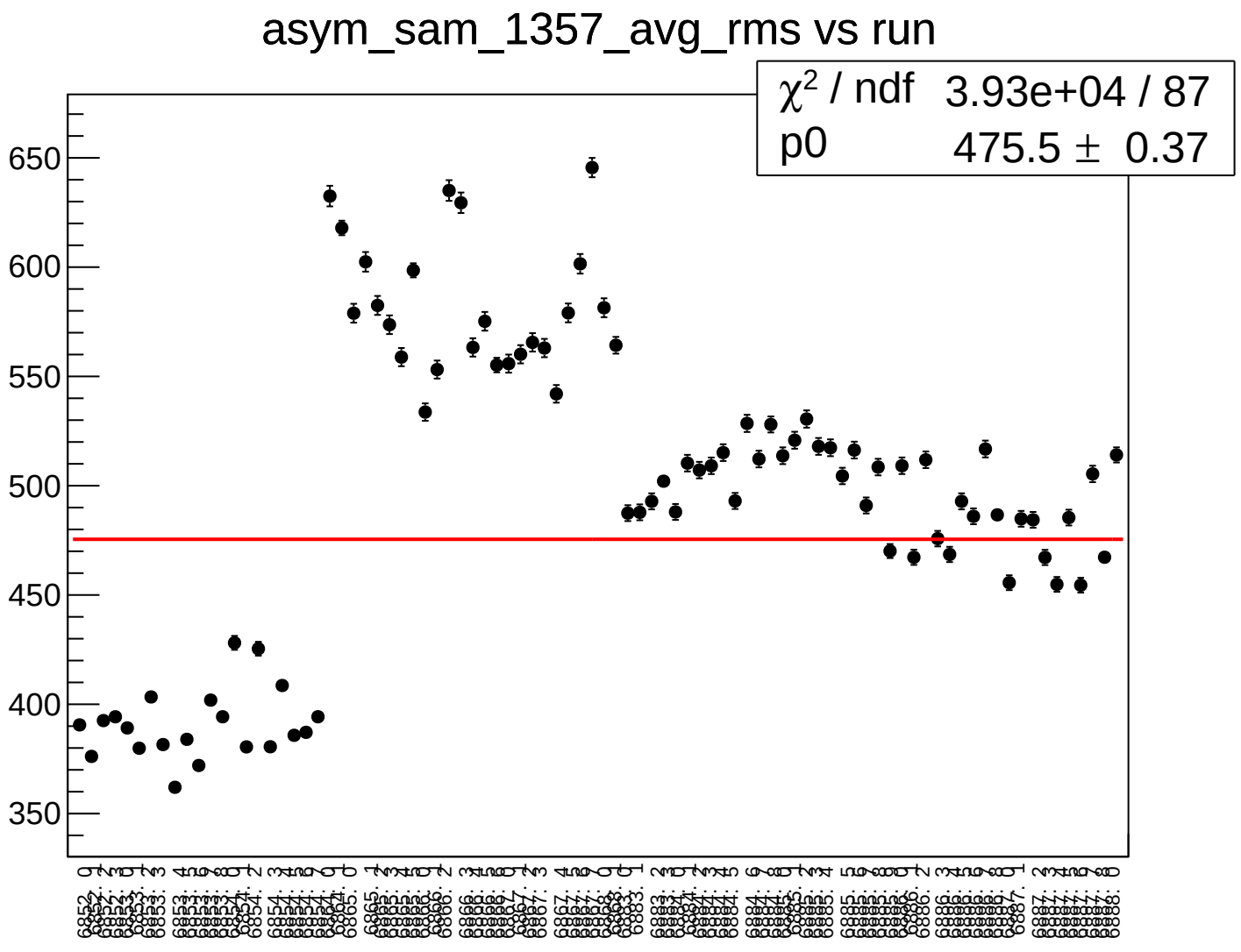

pull1D
Entries 88
Mean −0.004622
Std Dev 0.9486

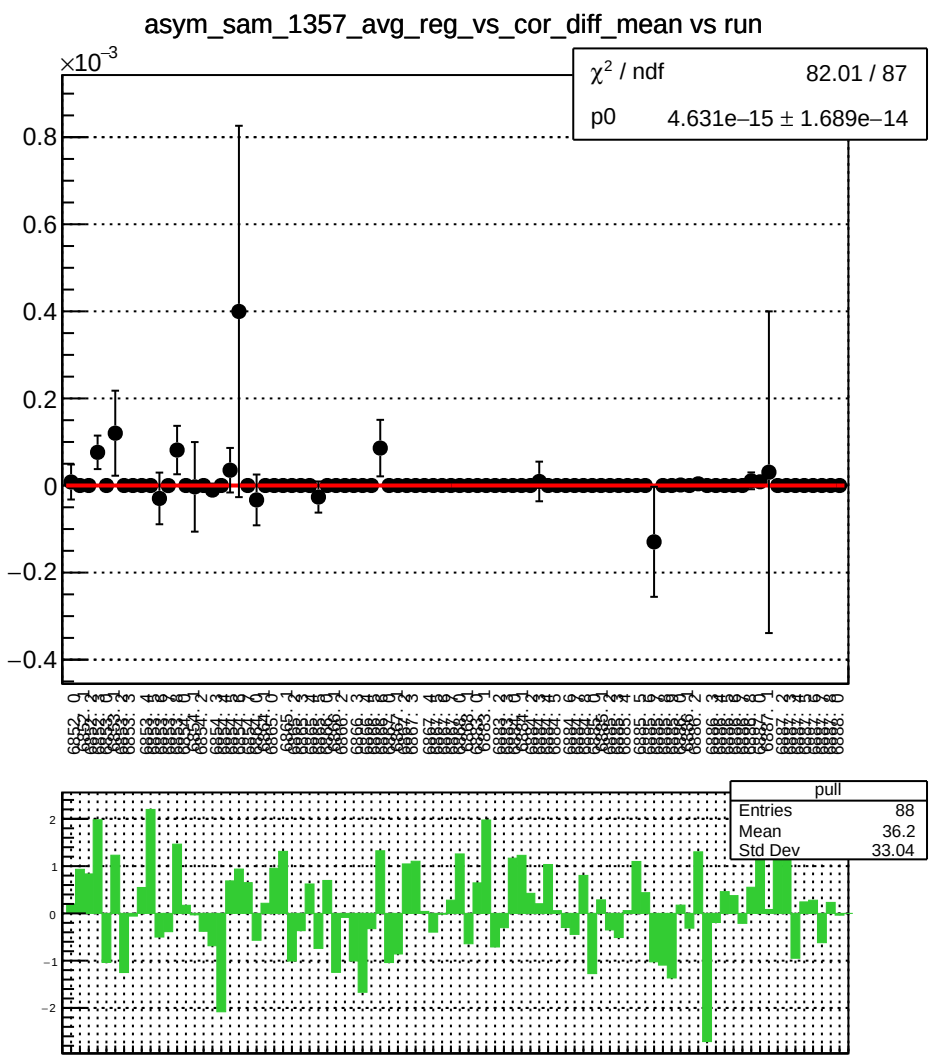

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 5.255e+04 / 87
p0 61.06 ± 0.0477
160
140
120
100
80
60
40

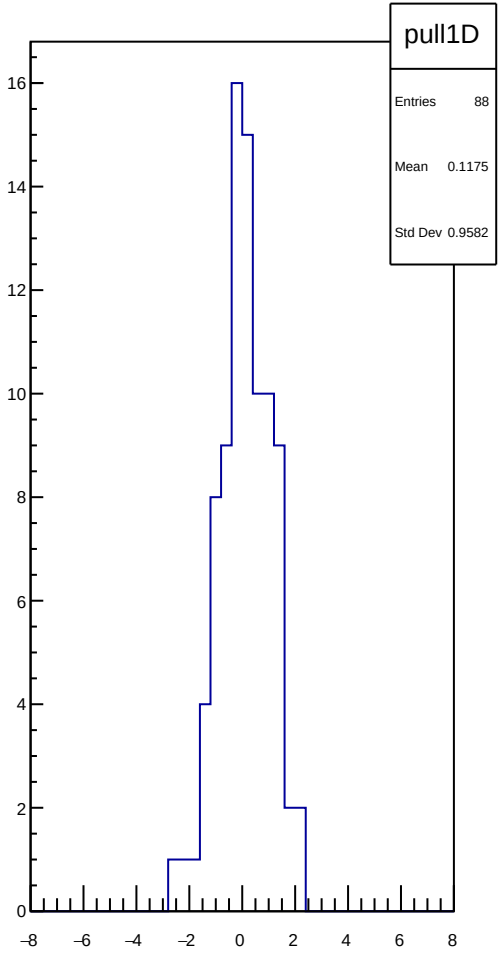

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 94.15 / 87
p0 −1159 ± 493.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 88
Mean 229
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0193
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

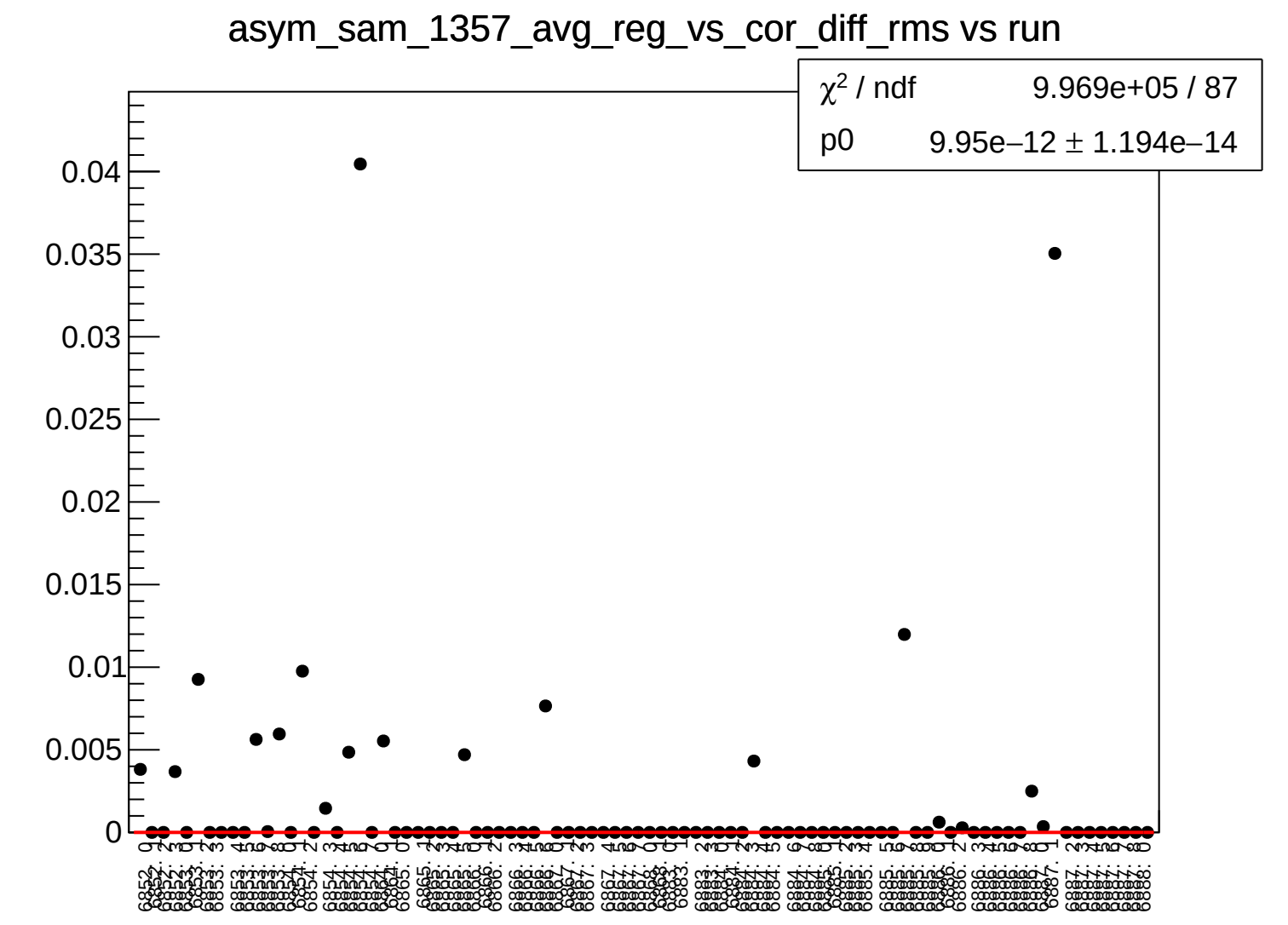

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.889e+04 / 87
p0 448.4 ± 0.3489
550
500
450
400
350

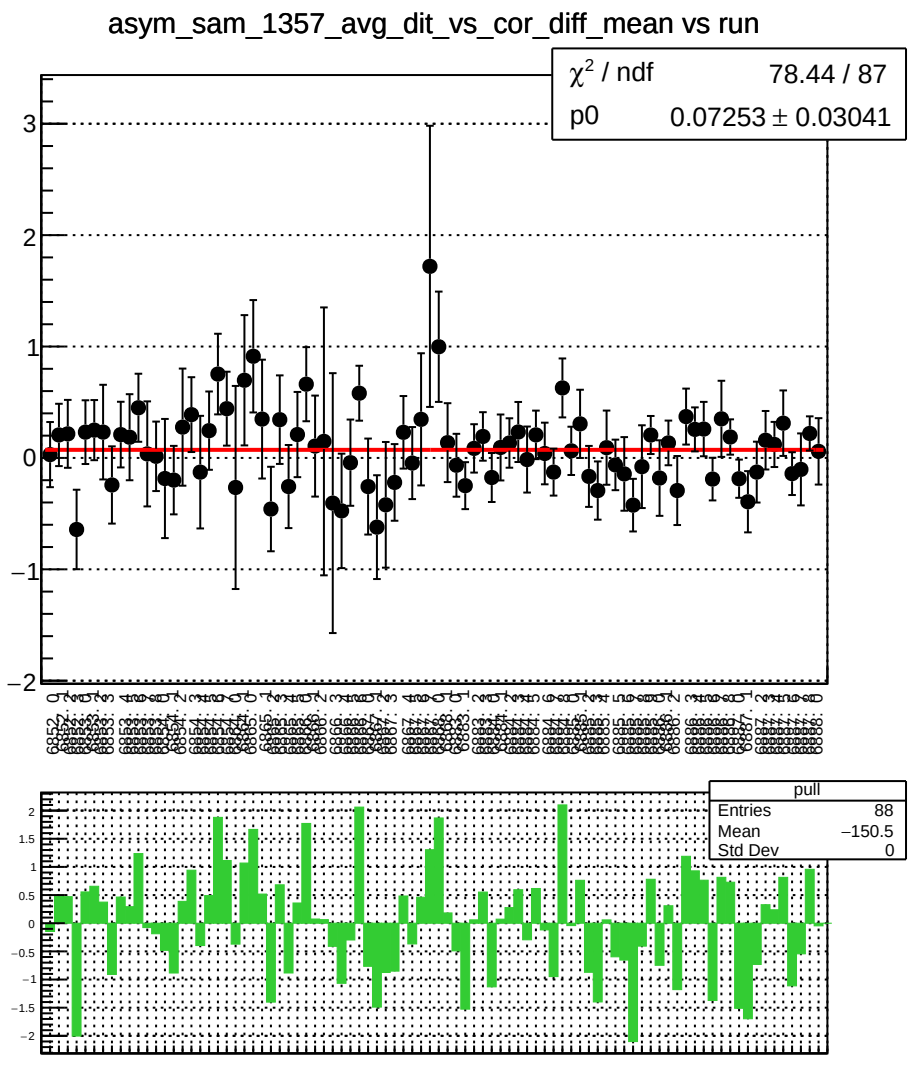

asym_sam_1357_avg_mean vs run
χ² / ndf 94.76 / 87
p0 1239 ± 523.2
pull
Entries 88
Mean 238.9
Std Dev 0
pull1D
Entries 88
Mean −0.01828
Std Dev 1.038

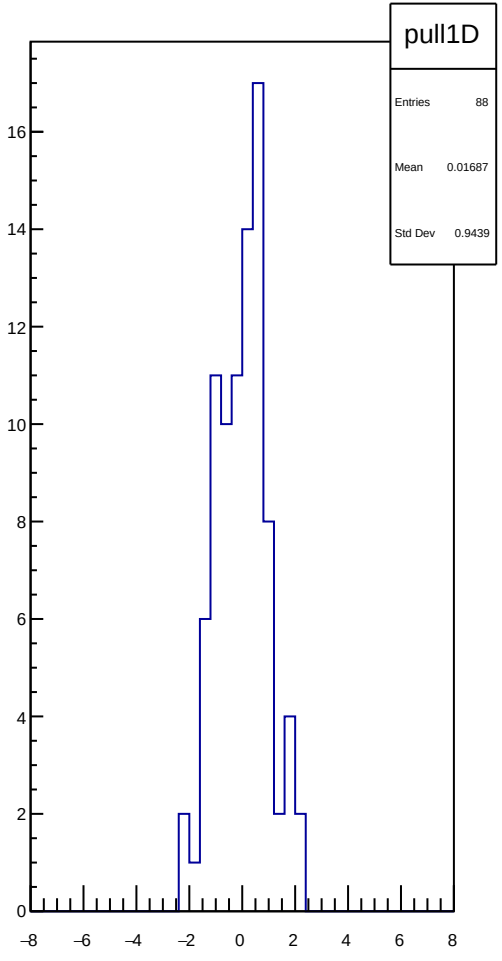

asym_sam_1357_avg_rms vs run
χ² / ndf 3.93e+04 / 87
p0 475.5 ± 0.37
650
600
550
500
450
400
350

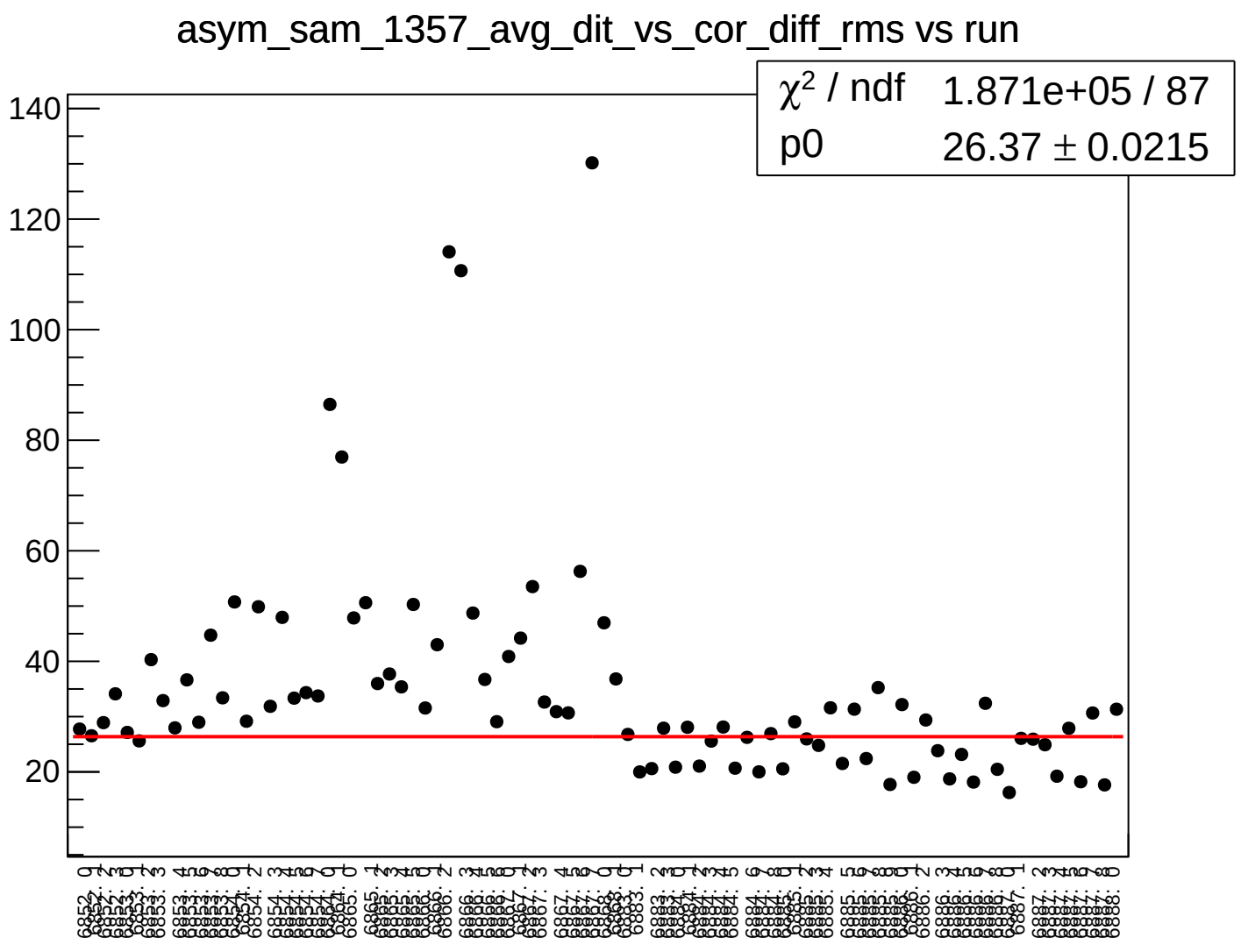

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 82.01 / 87
p0 4.631e−15 ± 1.689e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean 36.2
Std Dev 33.04
2
1
0
−1
−2

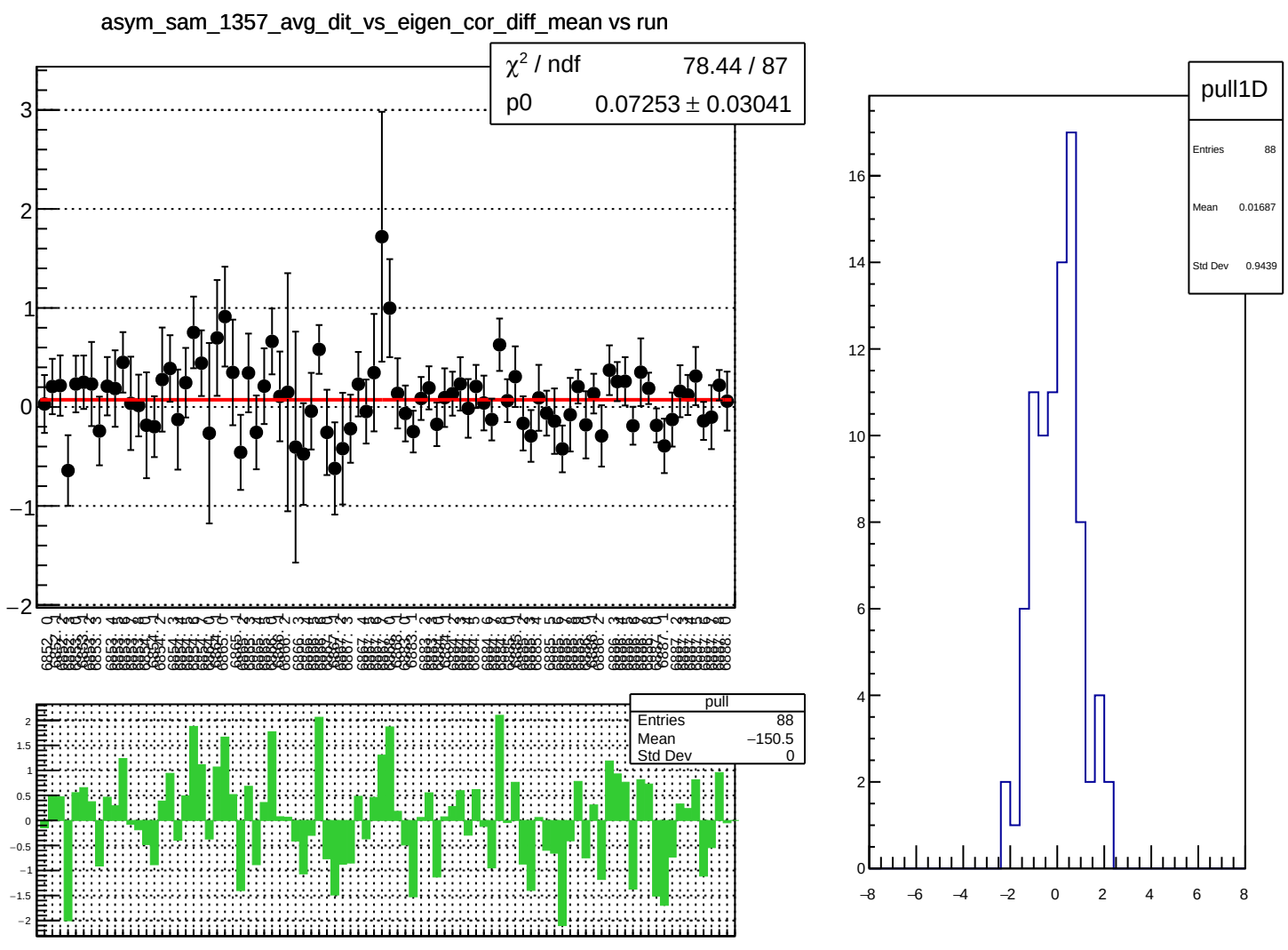

pull1D
Entries 88
Mean 0.1175
Std Dev 0.9582
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

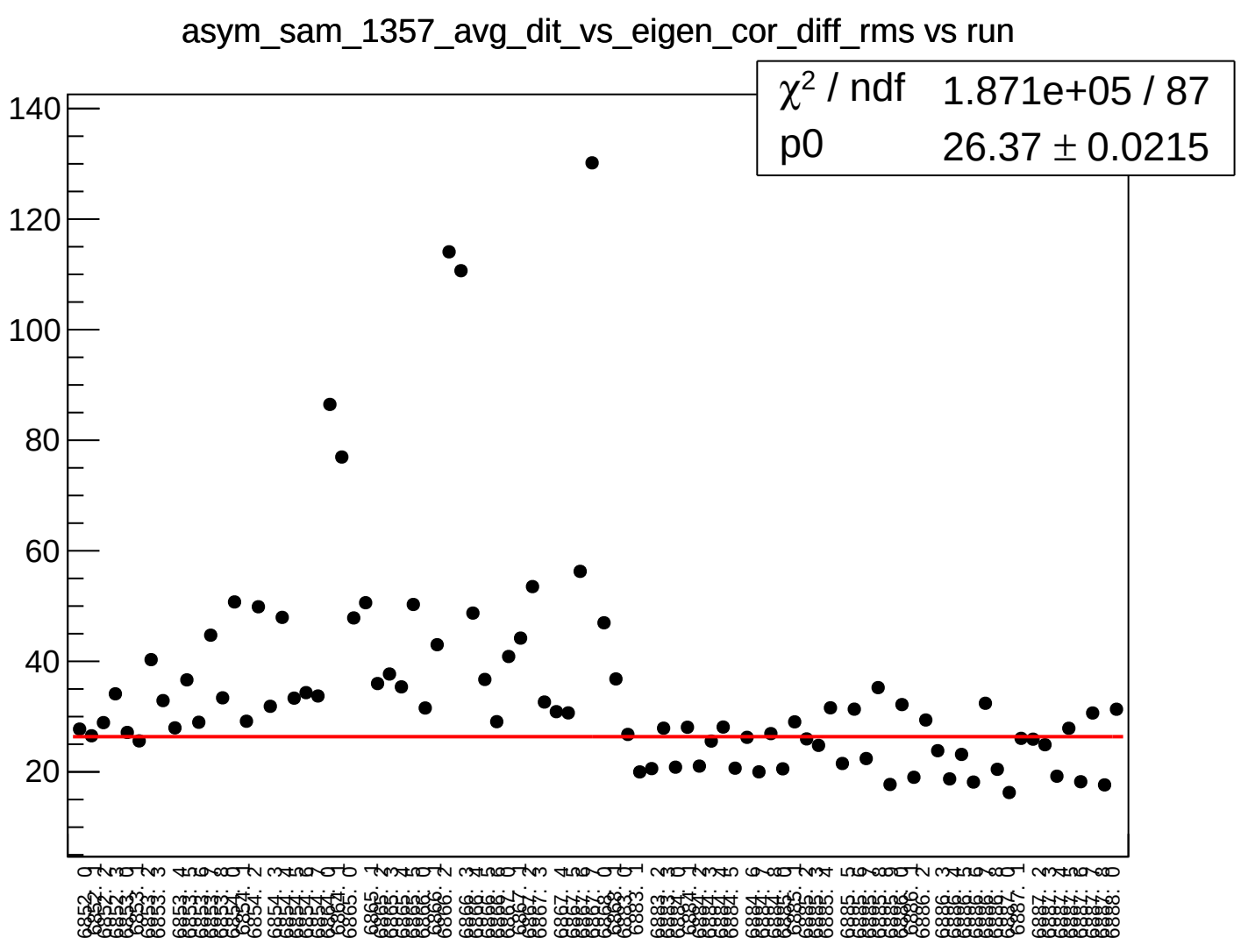

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.969e+05 / 87
p0 9.95e−12 ± 1.194e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

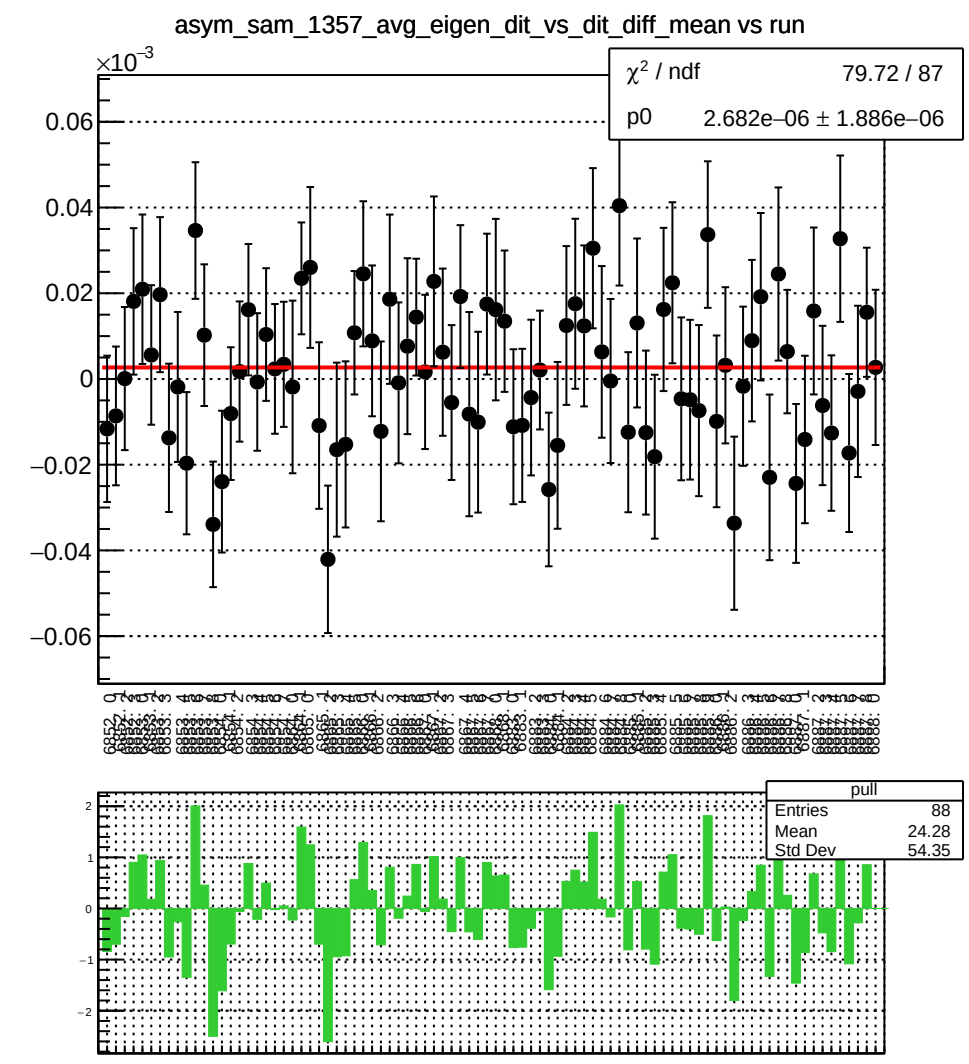

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.44 / 87
p0 0.07253 ± 0.03041
pull
Entries 88
Mean −150.5
Std Dev 0

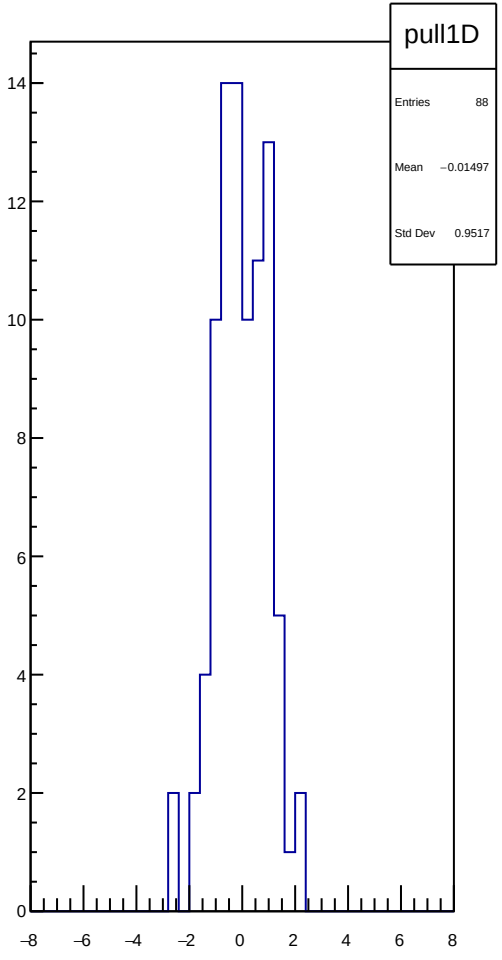

pull1D
Entries 88
Mean 0.01687
Std Dev 0.9439

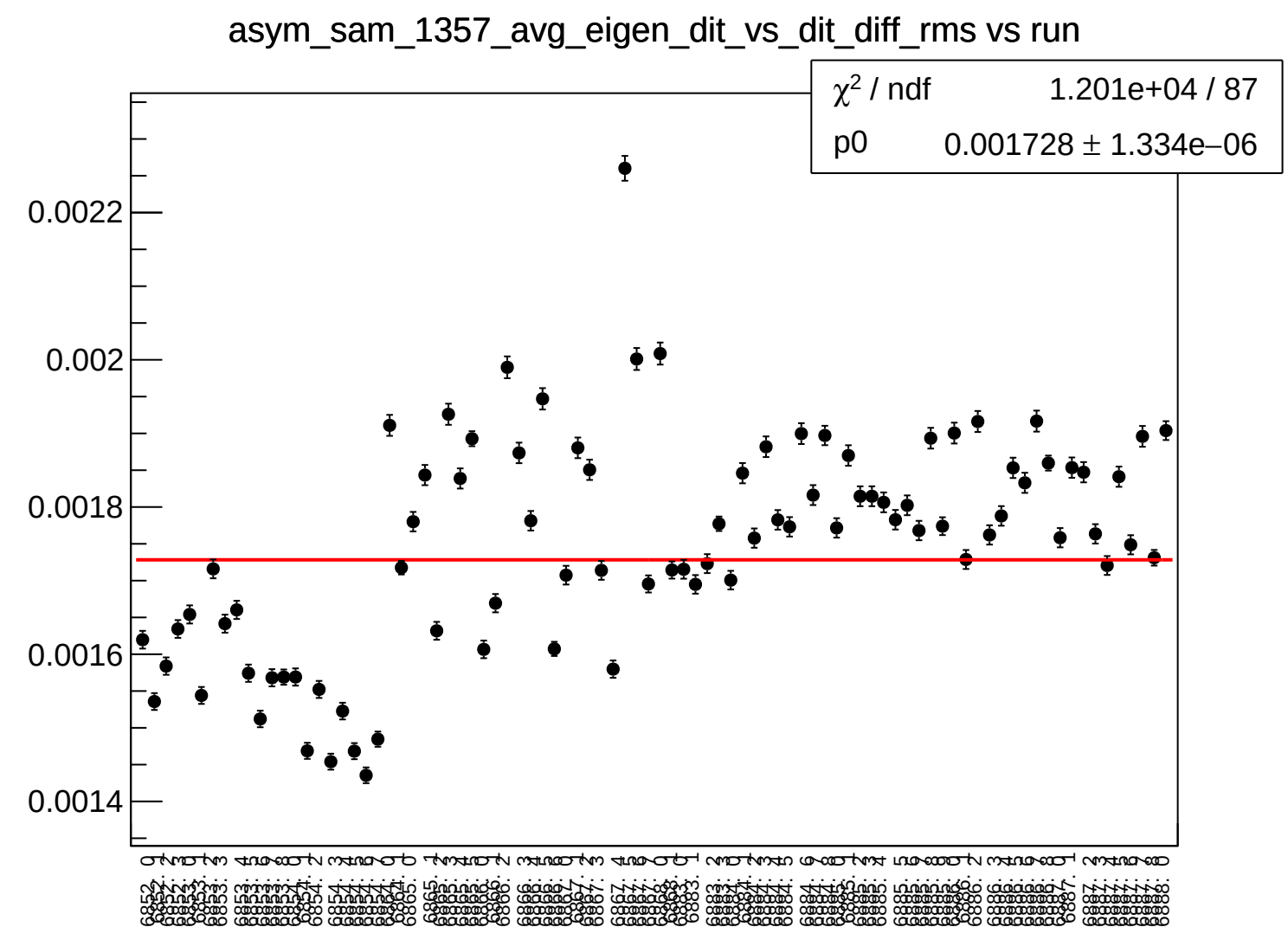

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.871e+05 / 87
p0 26.37 ± 0.0215
140
120
100
80
60
40
20

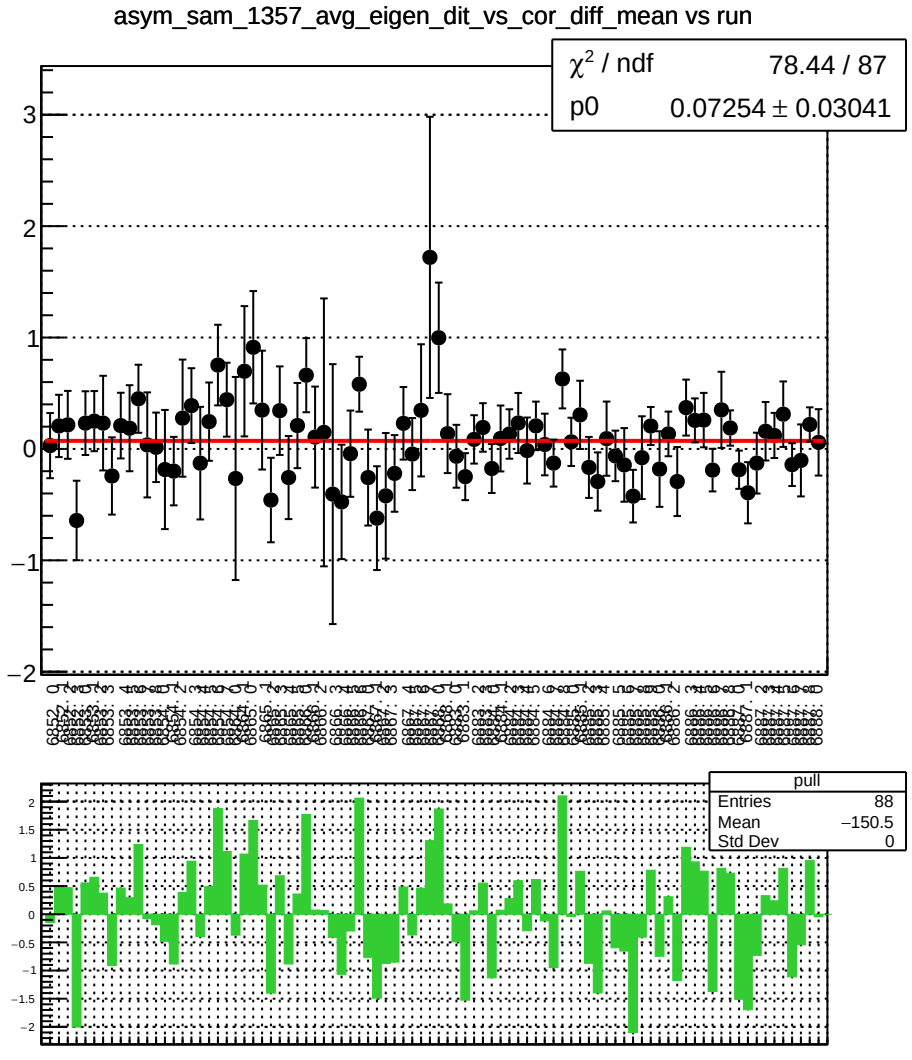

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.44 / 87
p0 0.07253 ± 0.03041
pull
Entries 88
Mean −150.5
Std Dev 0
pull1D
Entries 88
Mean 0.01687
Std Dev 0.9439

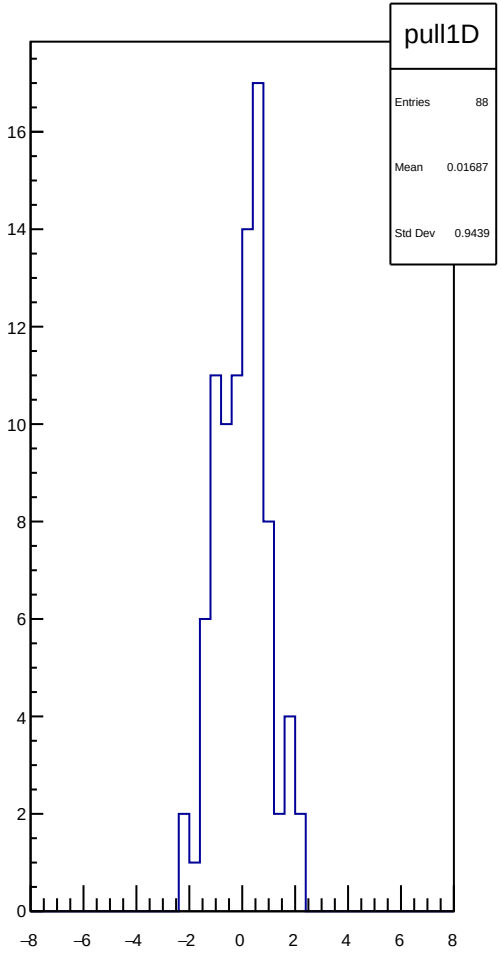

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.871e+05 / 87
p0 26.37 ± 0.0215
140
120
100
80
60
40
20

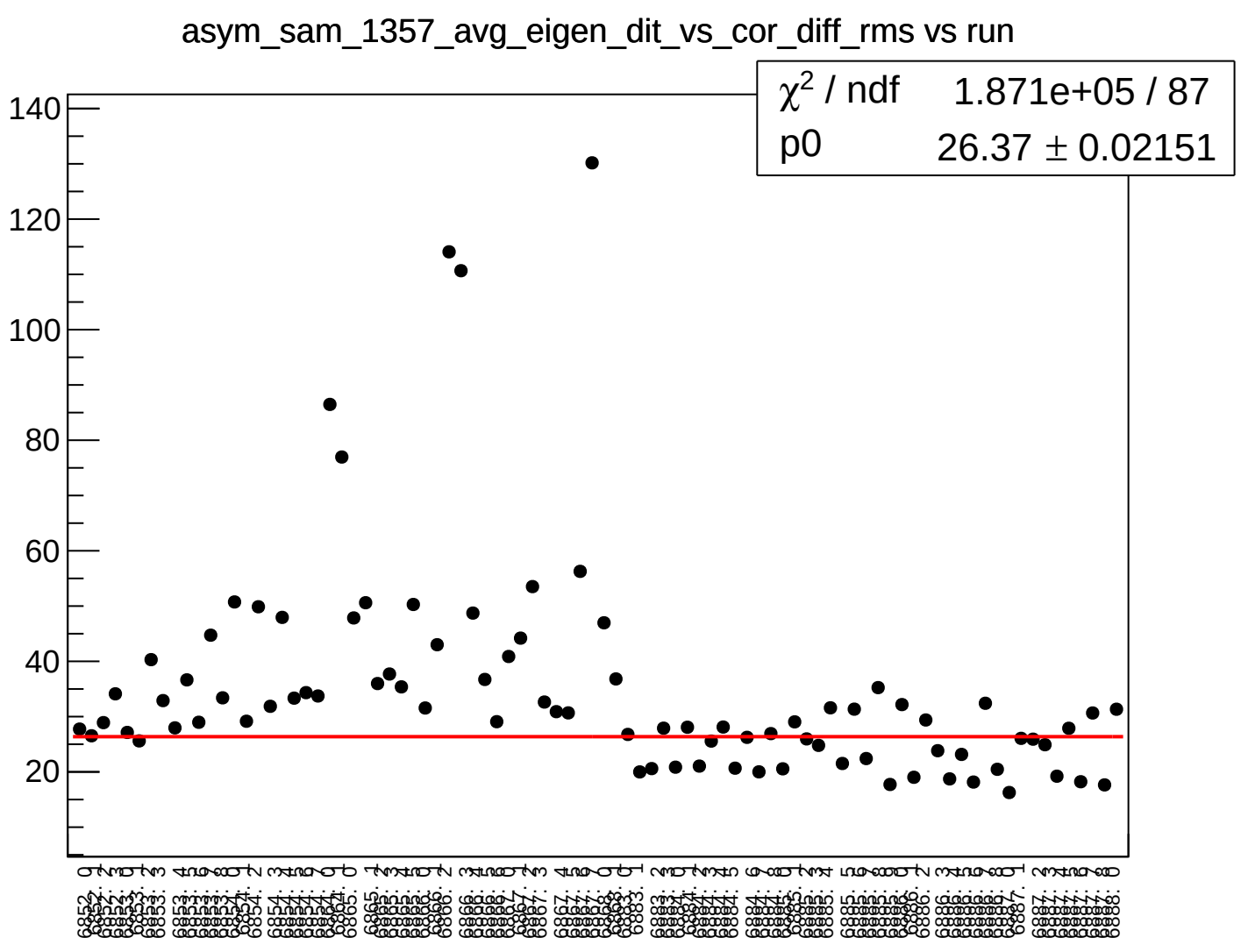

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.72 / 87
p0 2.682e−06 ± 1.886e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 24.28
Std Dev 54.35
2
1
0
−1
−2

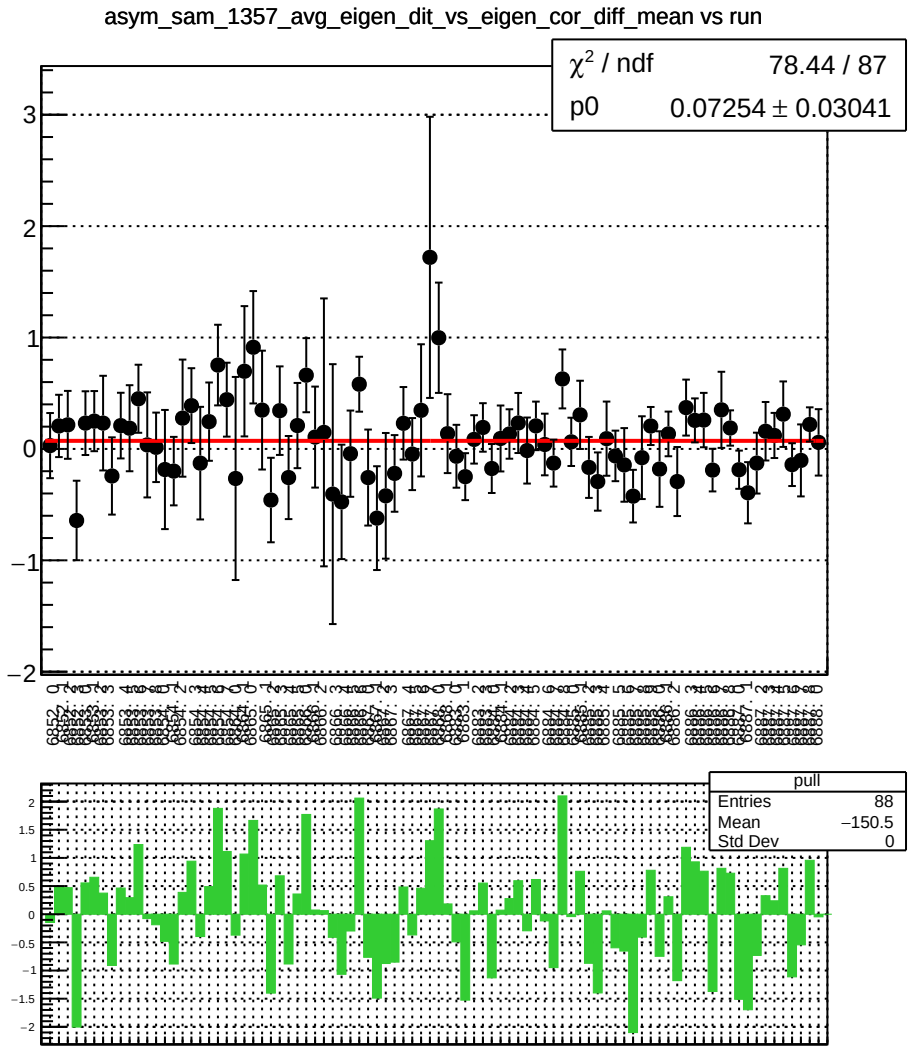

pull1D
Entries 88
Mean −0.01497
Std Dev 0.9517
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

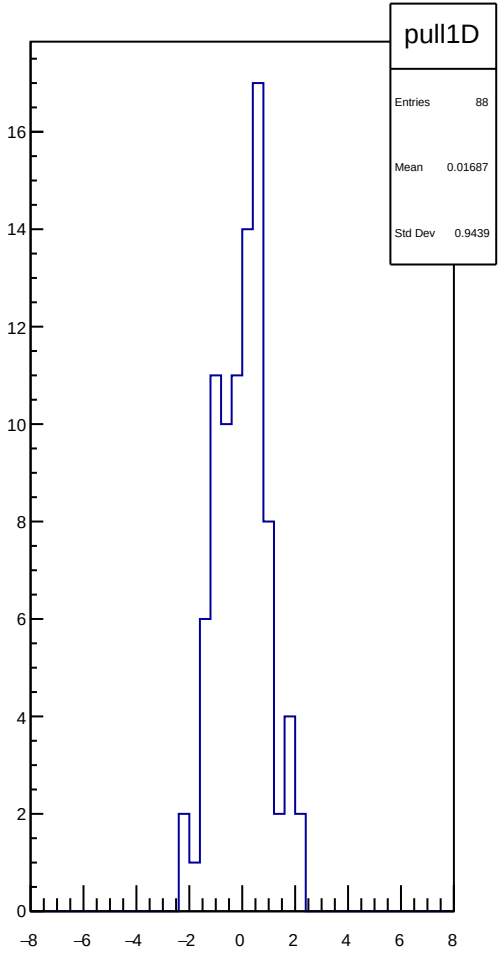

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.201e+04 / 87
p0 0.001728 ± 1.334e−06
0.0022
0.002
0.0018
0.0016
0.0014

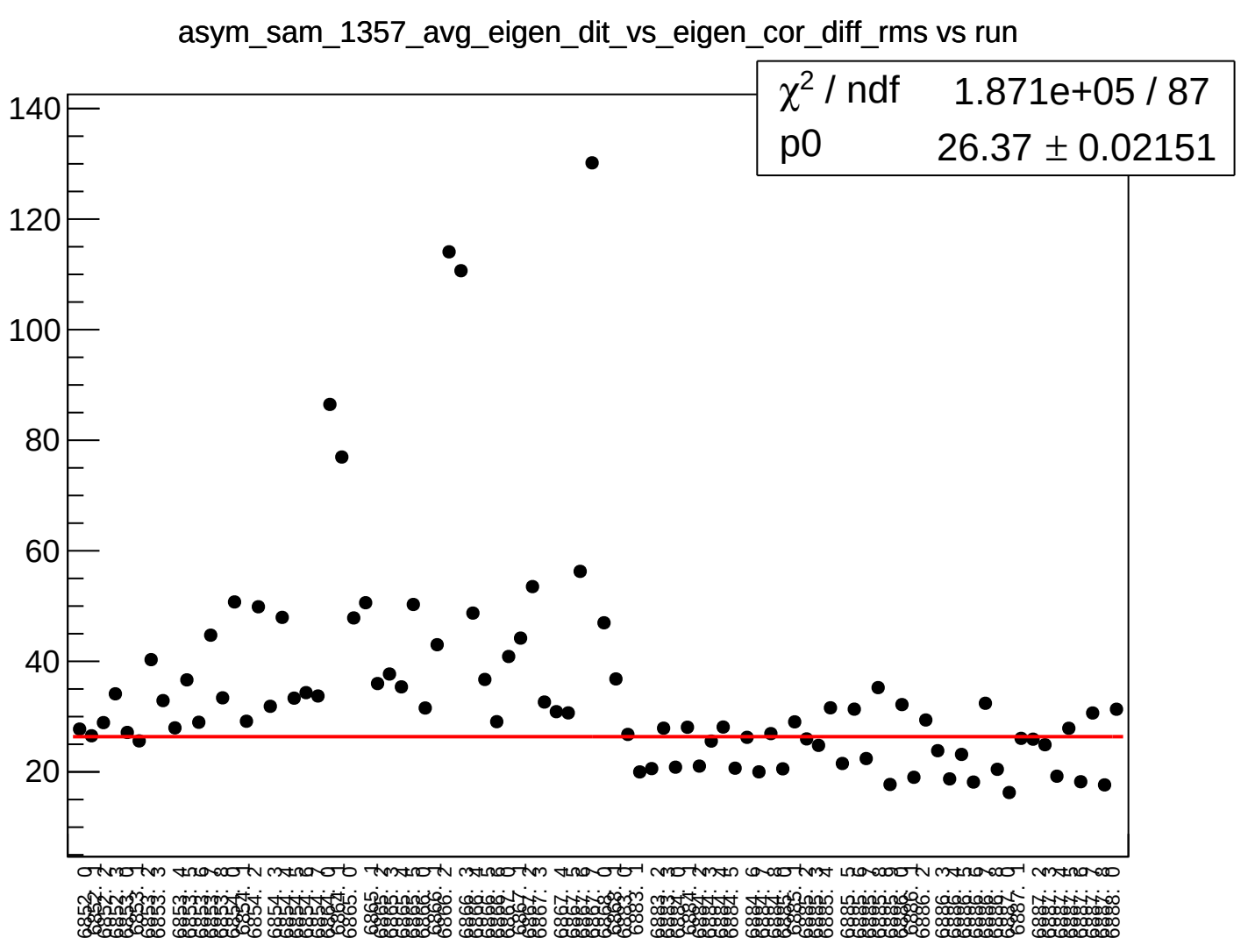

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.44 / 87
p0 0.07254 ± 0.03041
pull
Entries 88
Mean −150.5
Std Dev 0

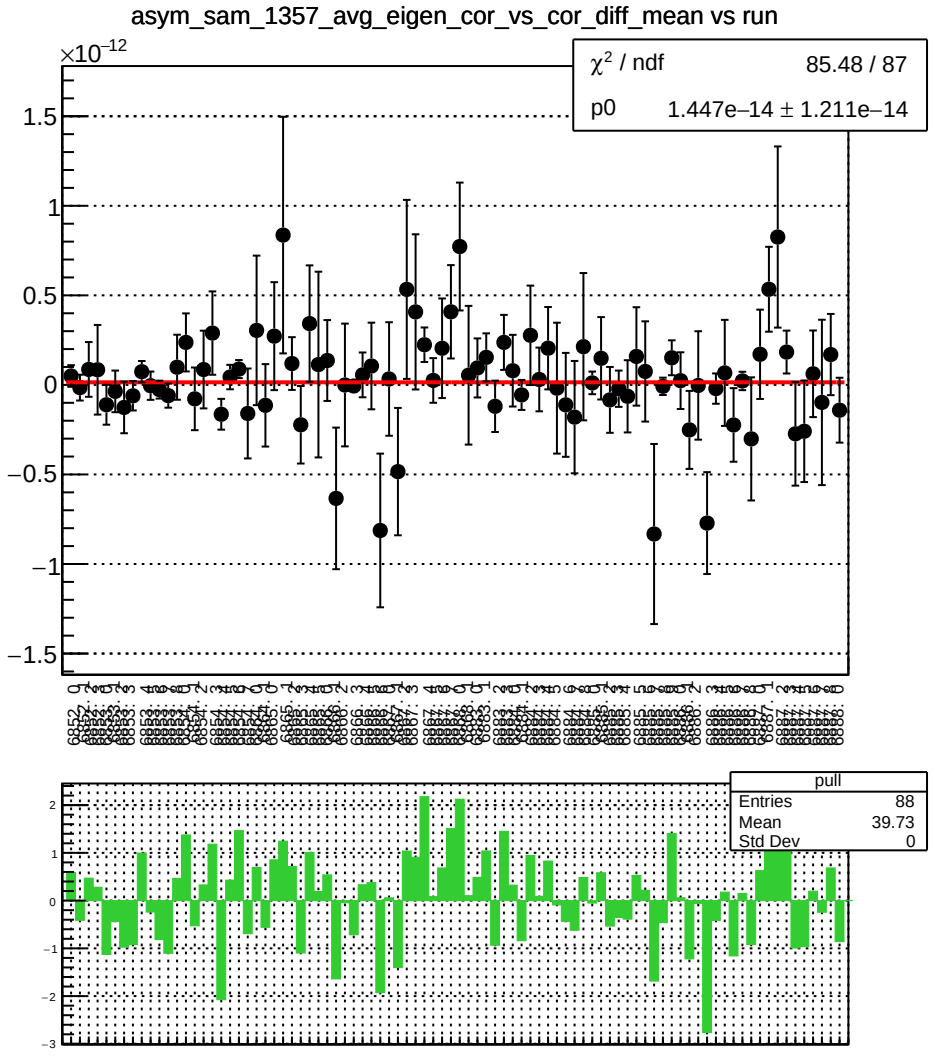

pull1D
Entries 88
Mean 0.01687
Std Dev 0.9439

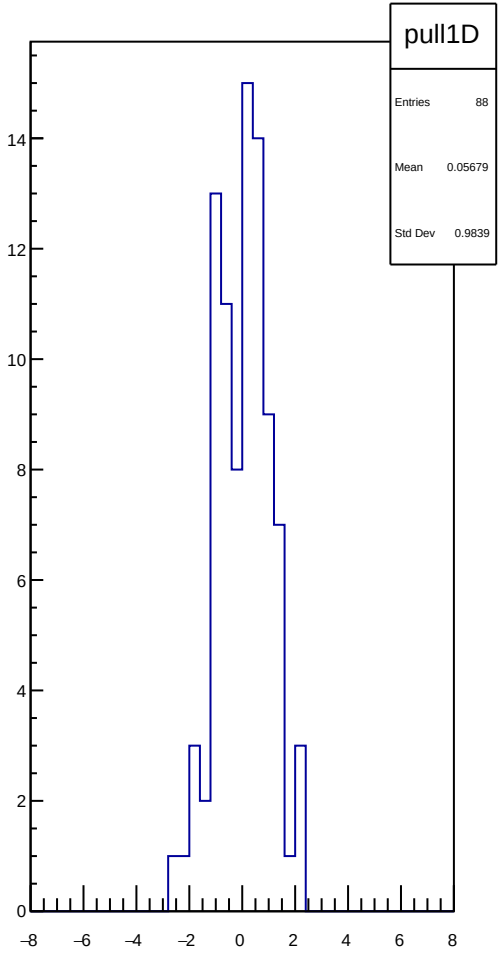

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.871e+05 / 87
p0 26.37 ± 0.02151
140
120
100
80
60
40
20

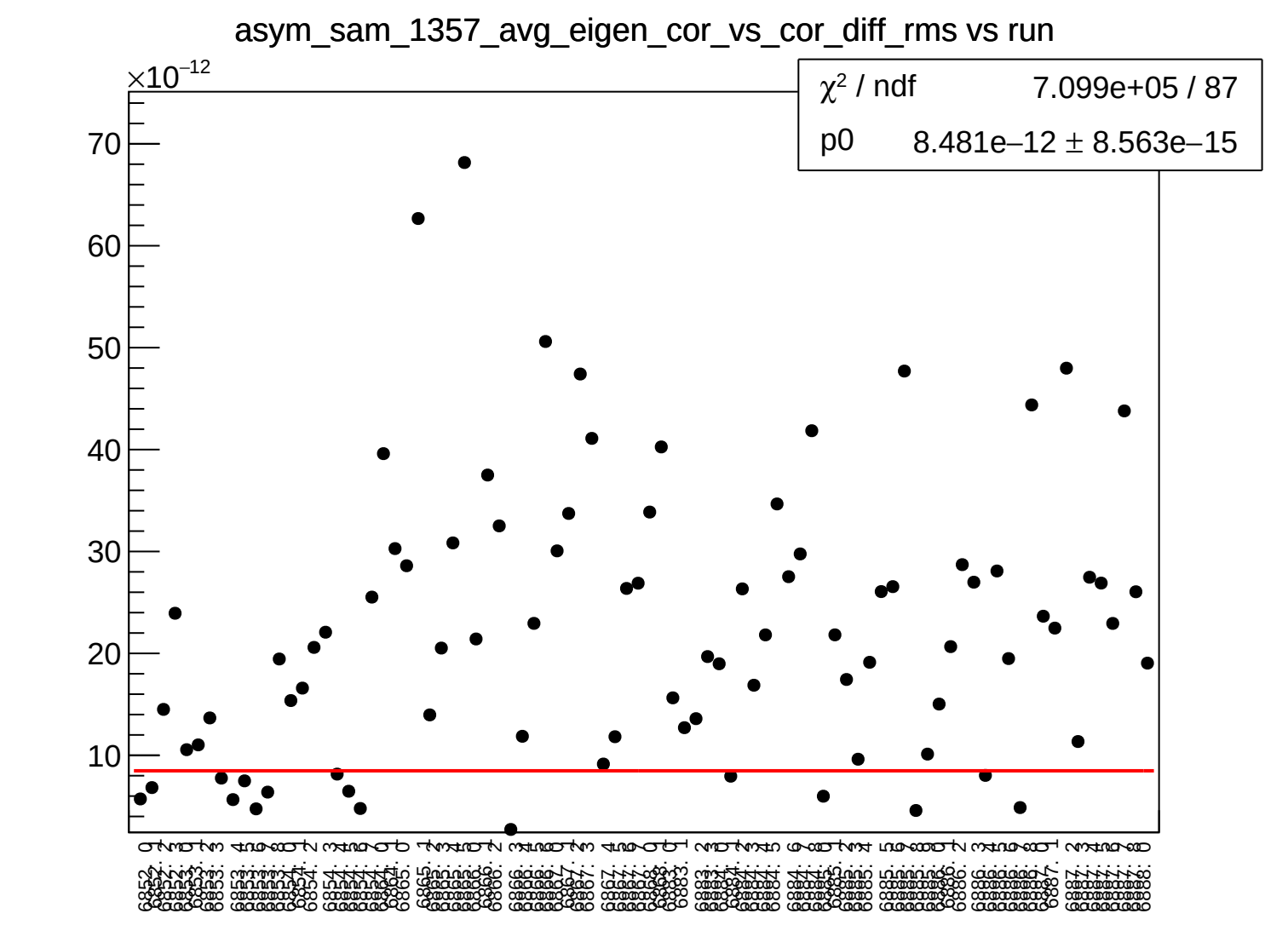

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.44 / 87
p0 0.07254 ± 0.03041
pull
Entries 88
Mean −150.5
Std Dev 0

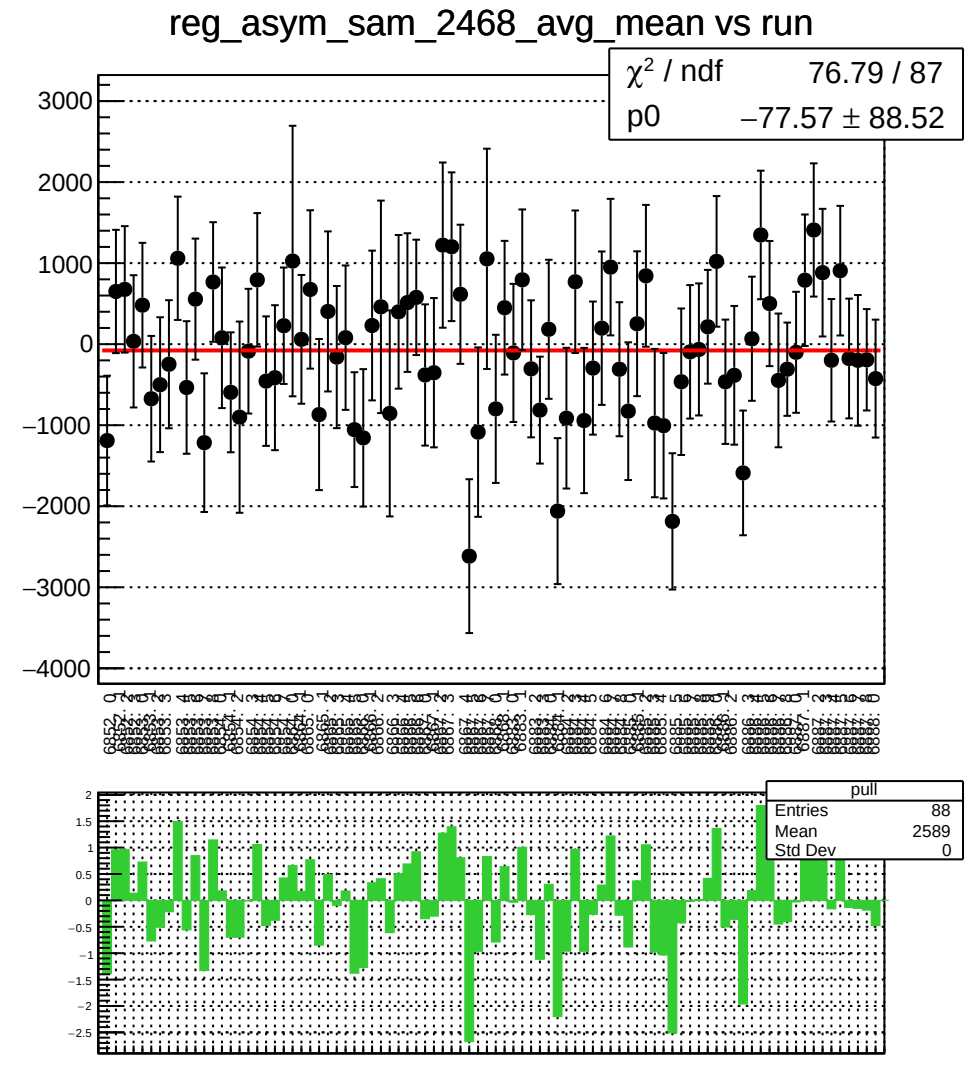

pull1D
Entries 88
Mean 0.01687
Std Dev 0.9439

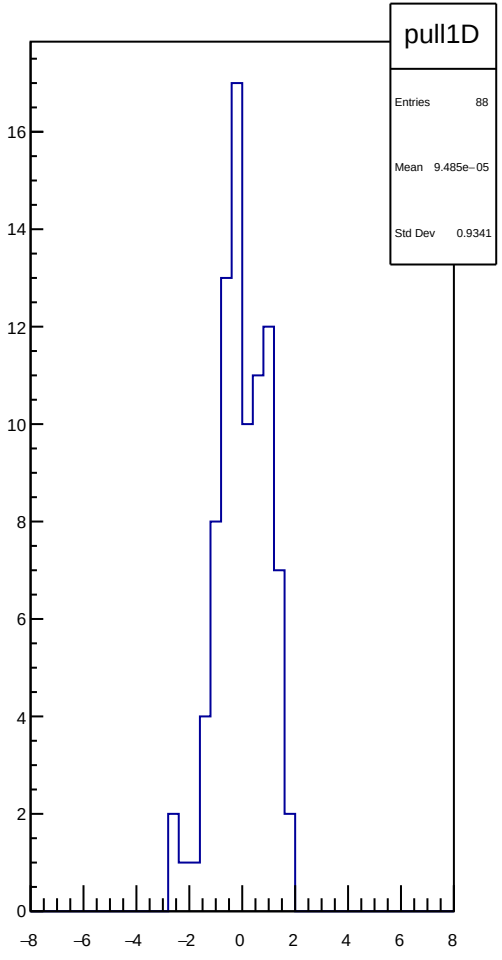

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.871e+05 / 87
p0 26.37 ± 0.02151
140
120
100
80
60
40
20

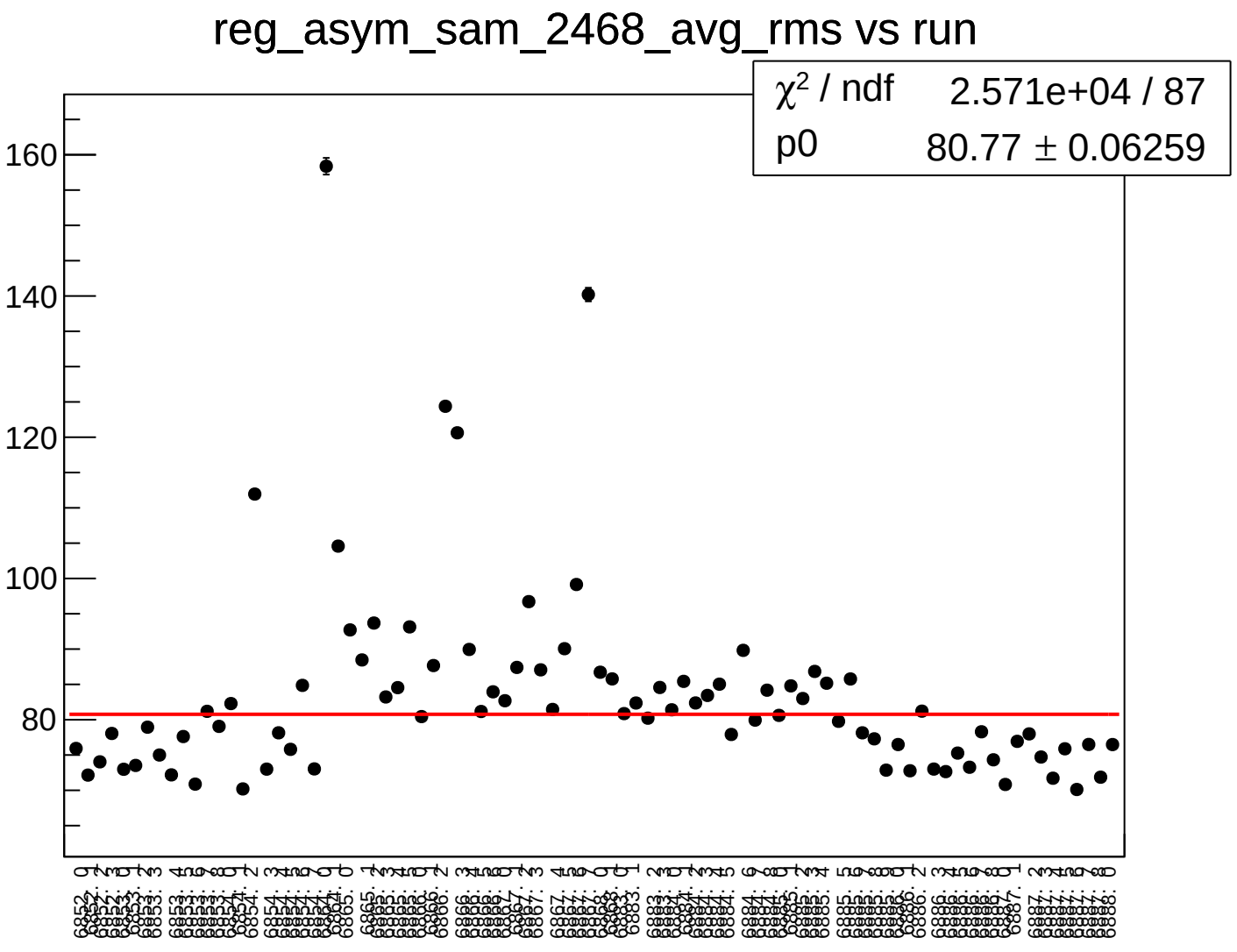

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.48 / 87
p0 1.447e−14 ± 1.211e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 88
Mean 39.73
Std Dev 0
2
1
0
−1
−2
−3

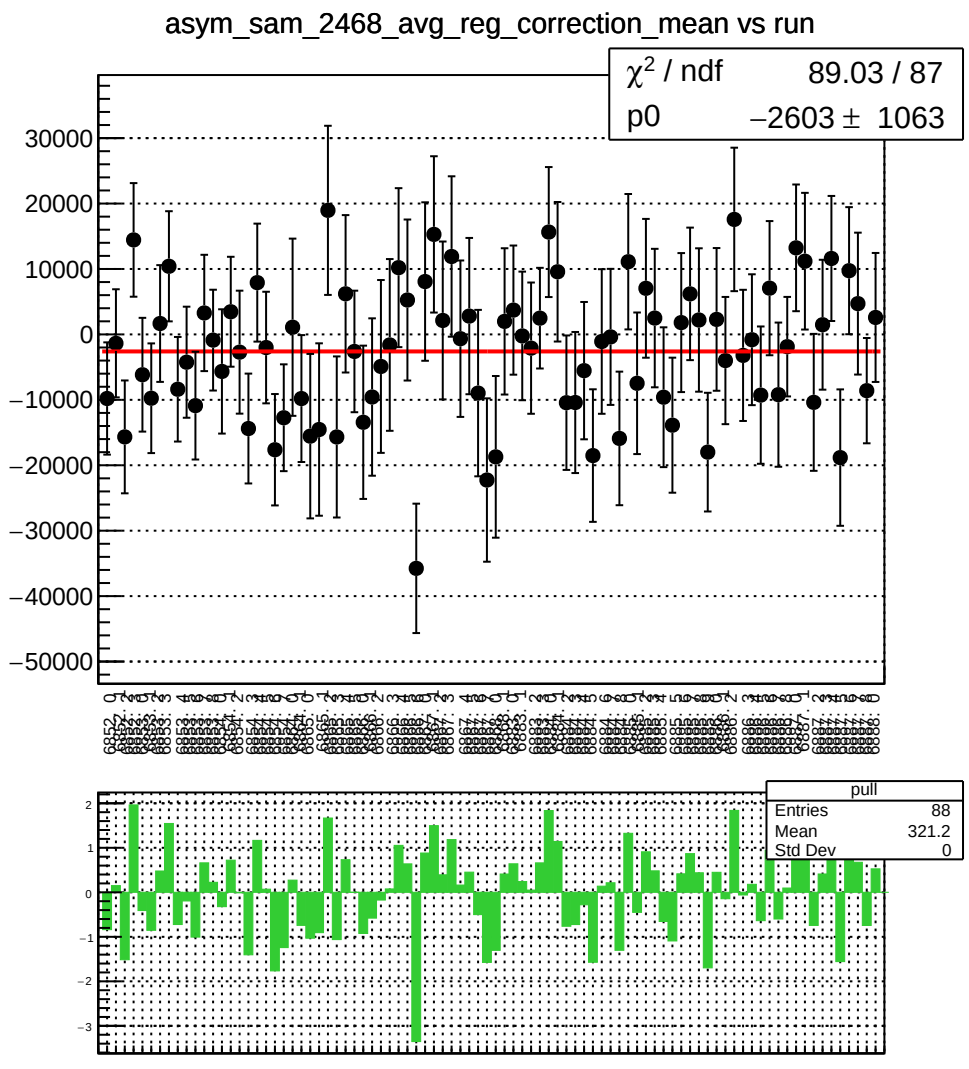

pull1D
Entries 88
Mean 0.05679
Std Dev 0.9839
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

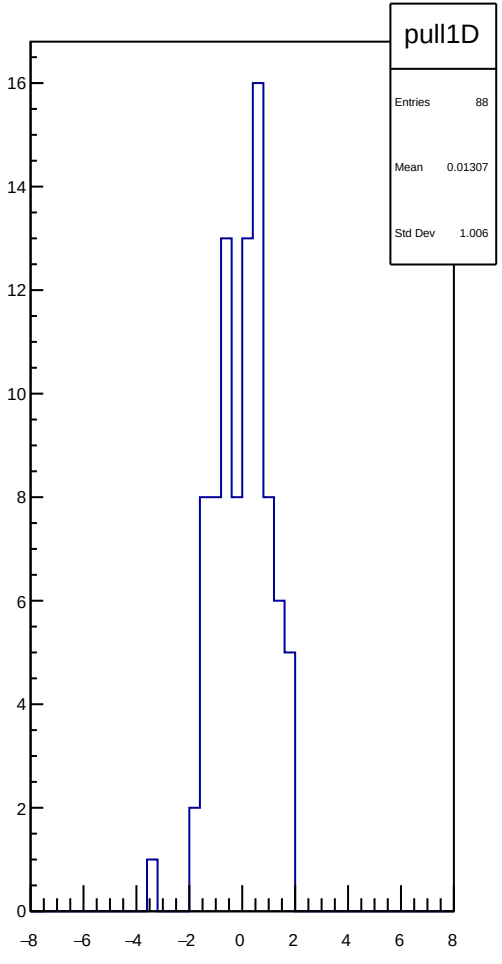

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 7.099e+05 / 87
p0 8.481e−12 ± 8.563e−15

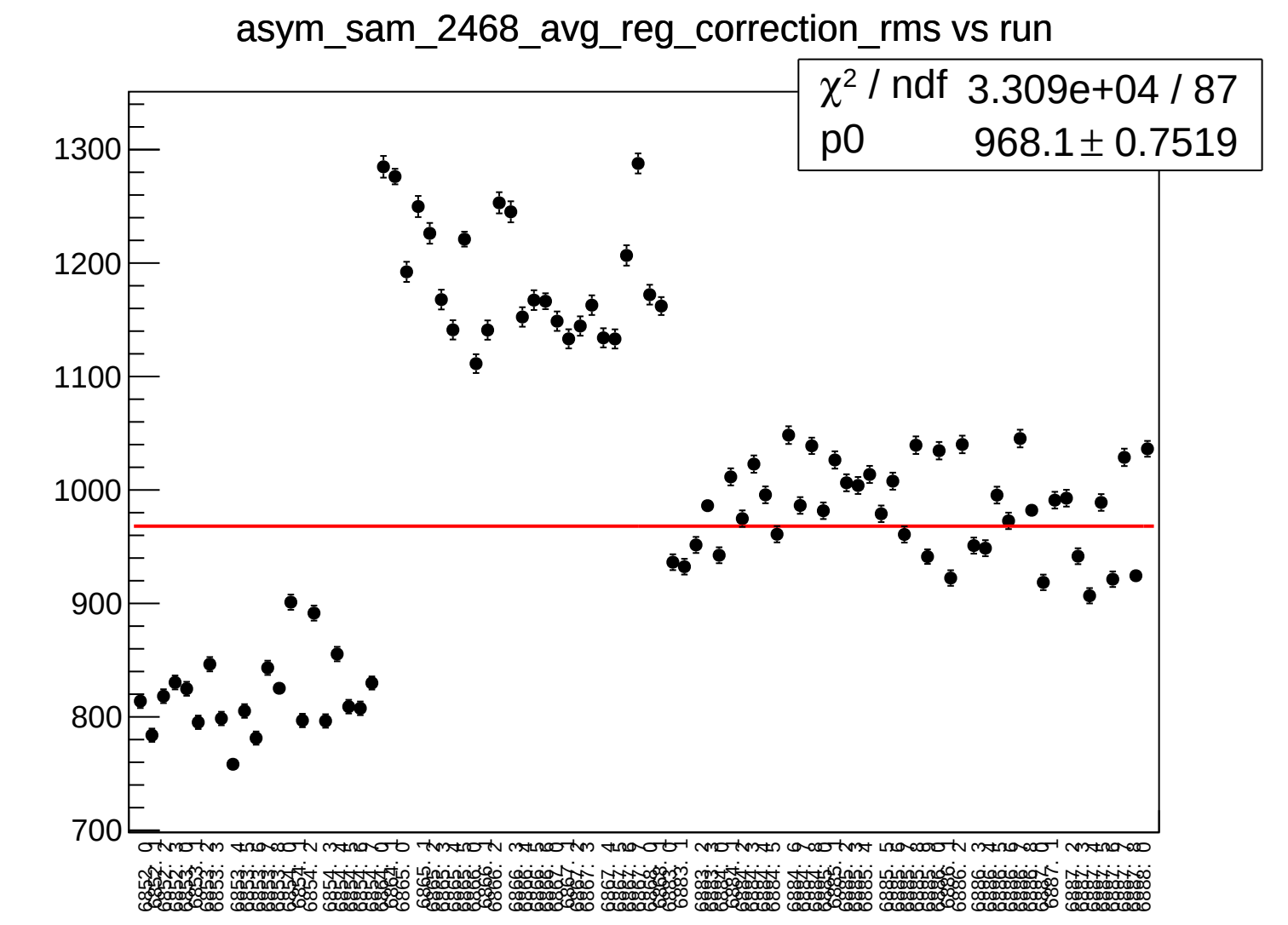

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 76.79 / 87
p0 −77.57 ± 88.52
pull
Entries 88
Mean 2589
Std Dev 0

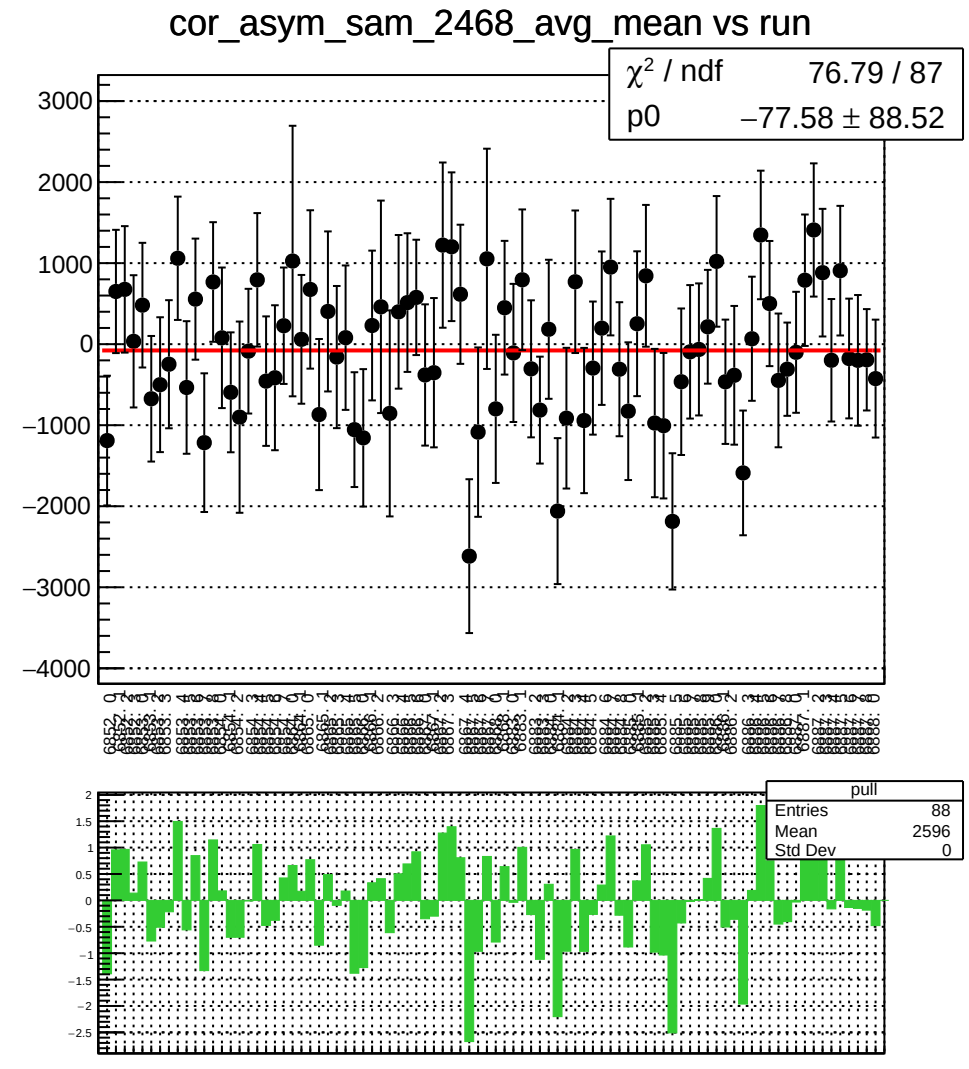

pull1D
Entries 88
Mean 9.485e−05
Std Dev 0.9341

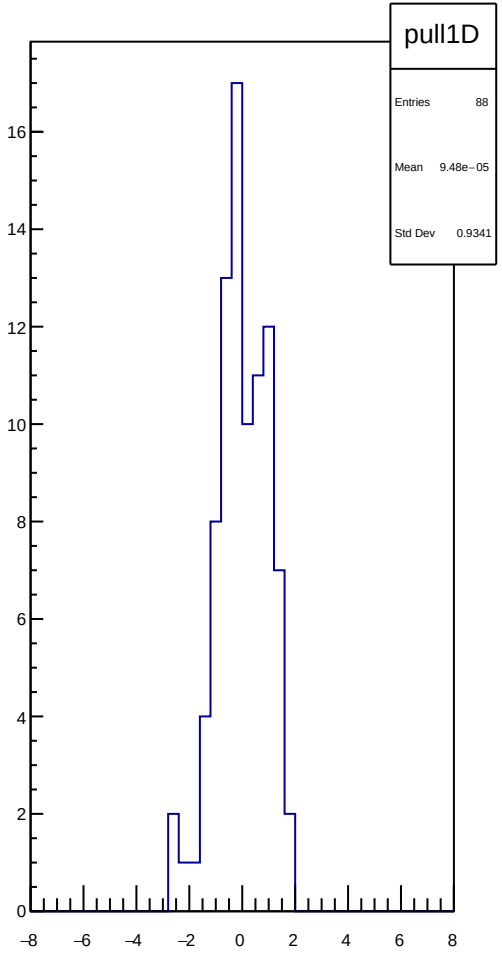

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2.571e+04 / 87
p0 80.77 ± 0.06259
160
140
120
100
80

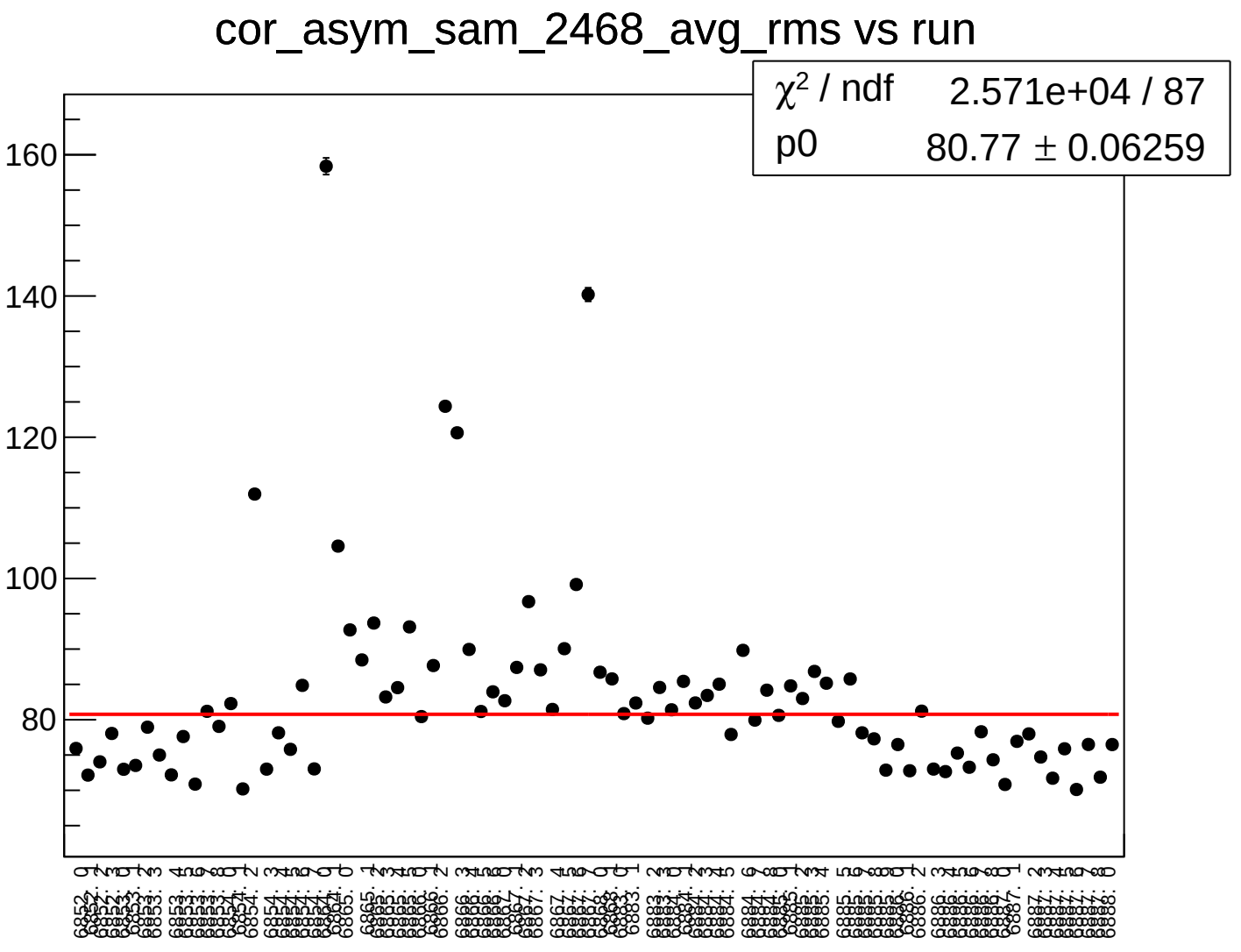

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 89.03 / 87
p0 −2603 ± 1063
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 88
Mean 321.2
Std Dev 0
2
1
0
−1
−2
−3

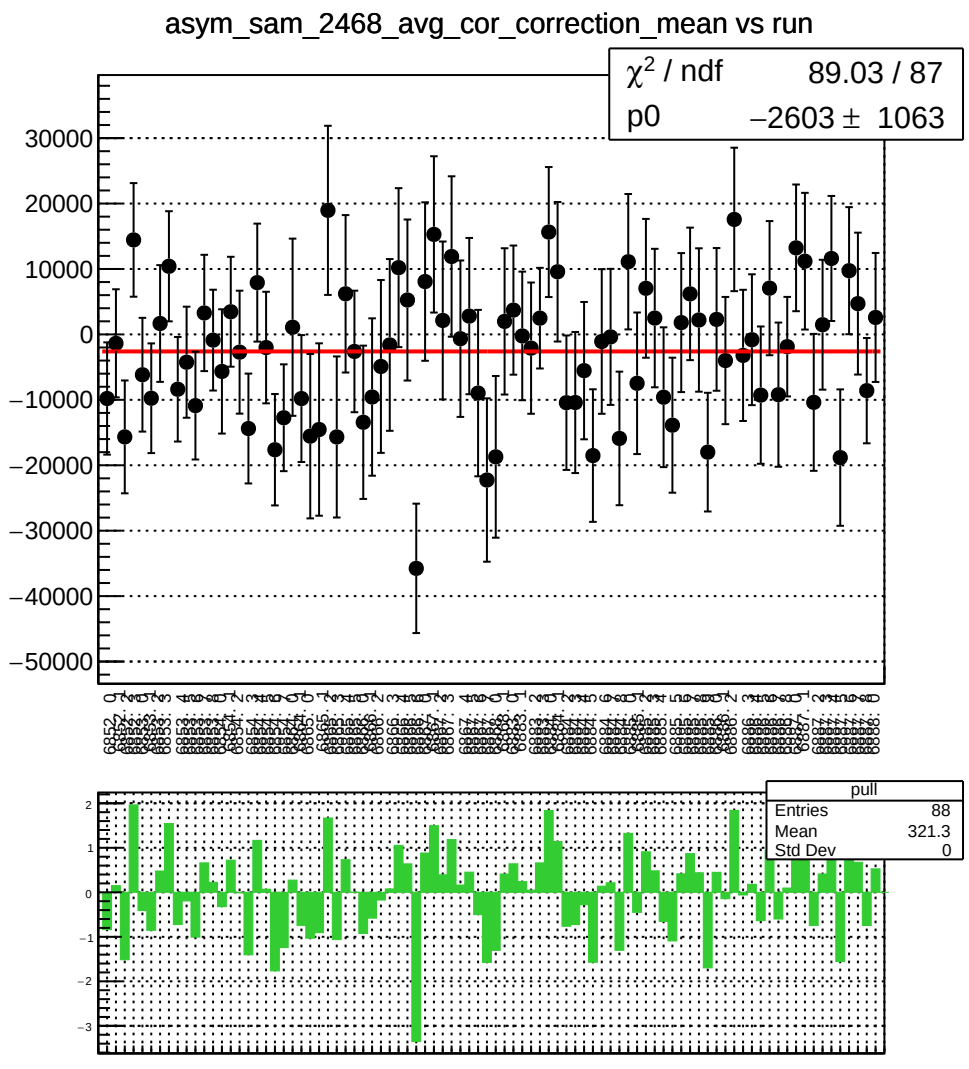

pull1D
Entries 88
Mean 0.01307
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

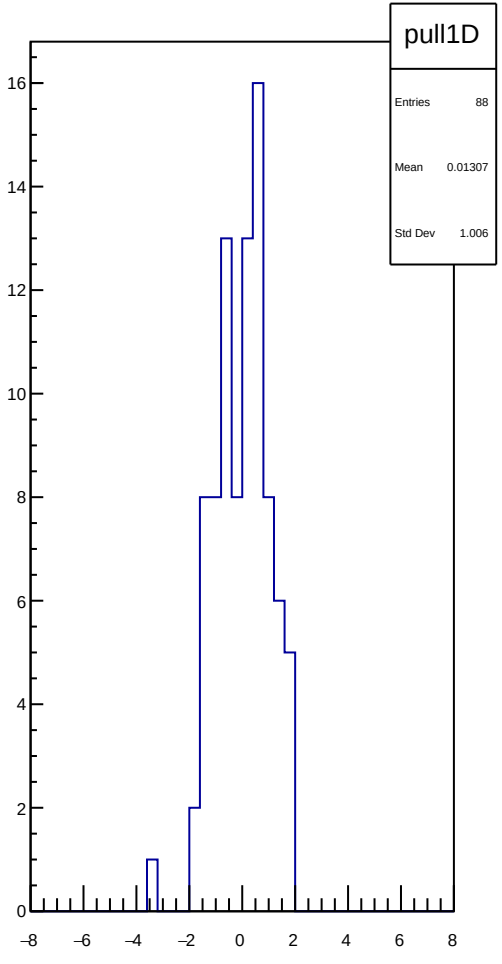

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 3.309e+04 / 87
p0 968.1 ± 0.7519
1300
1200
1100
1000
900
800
700

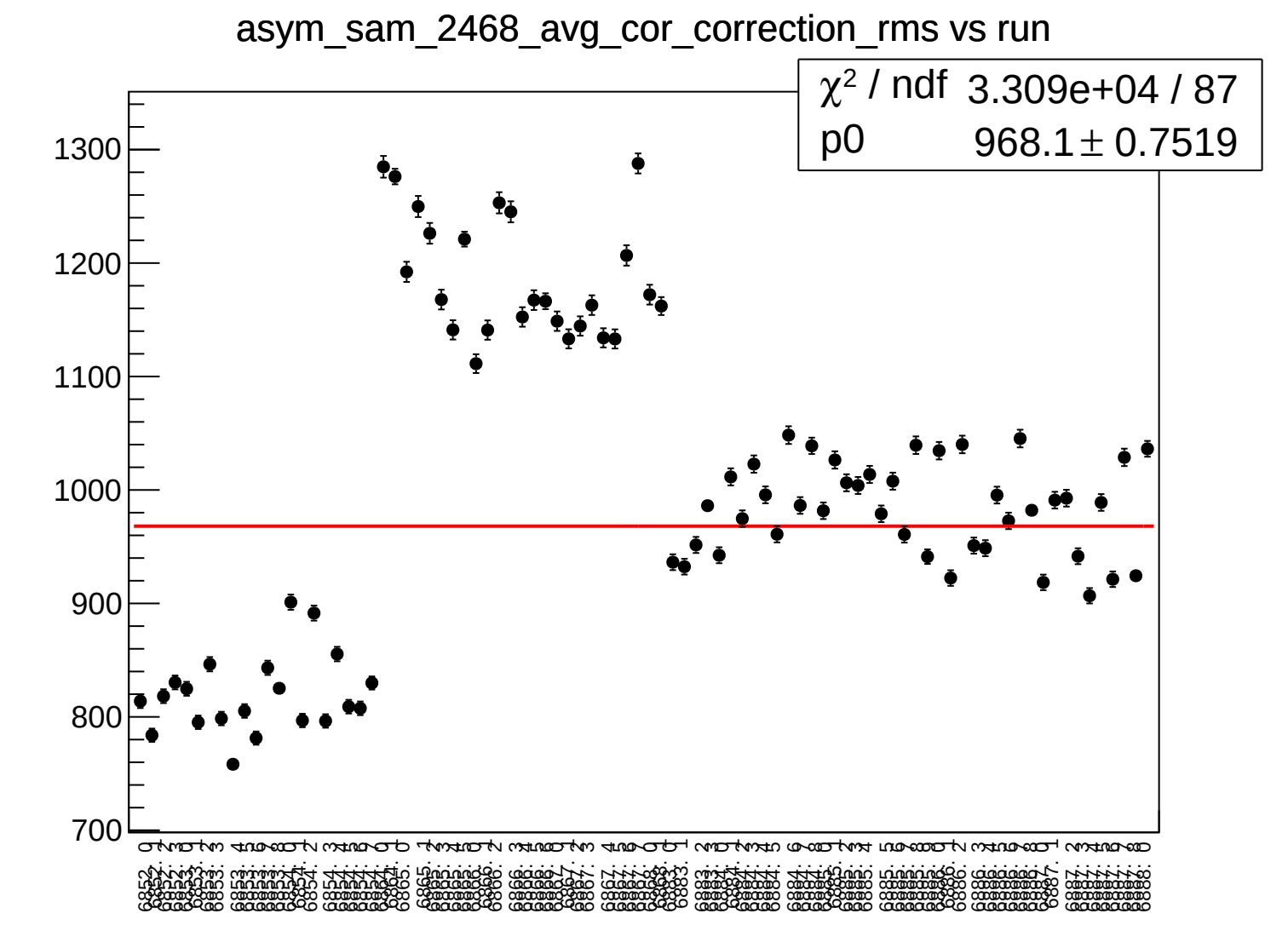

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 76.79 / 87
p0 −77.58 ± 88.52
pull
Entries 88
Mean 2596
Std Dev 0

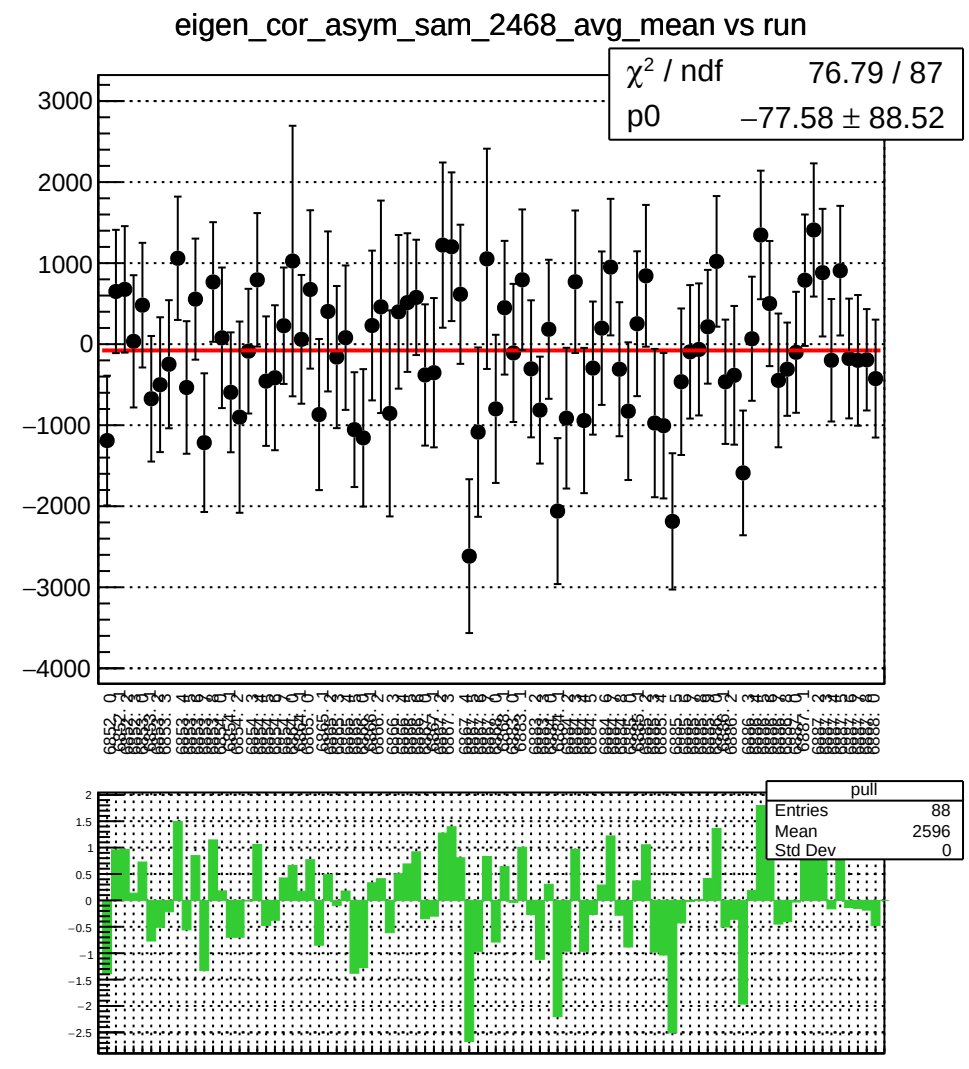

pull1D
Entries 88
Mean 9.48e−05
Std Dev 0.9341

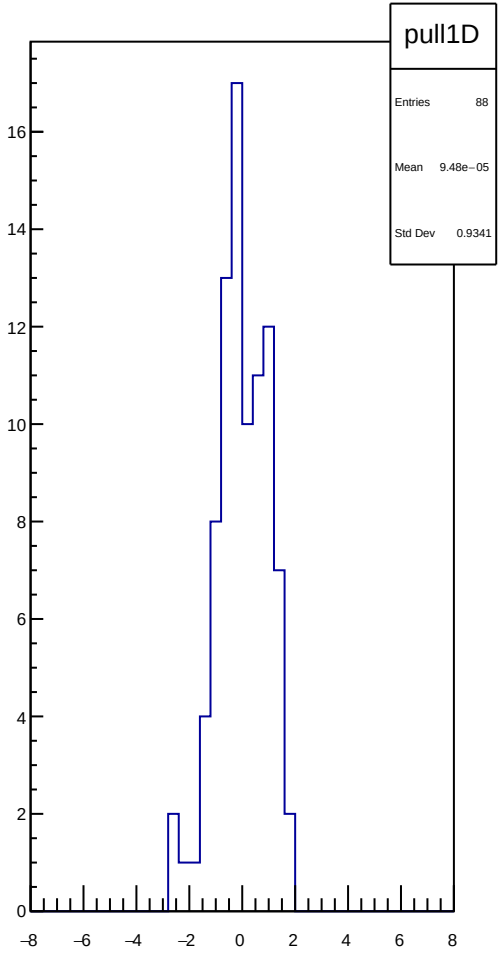

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.571e+04 / 87
p0 80.77 ± 0.06259
160
140
120
100
80

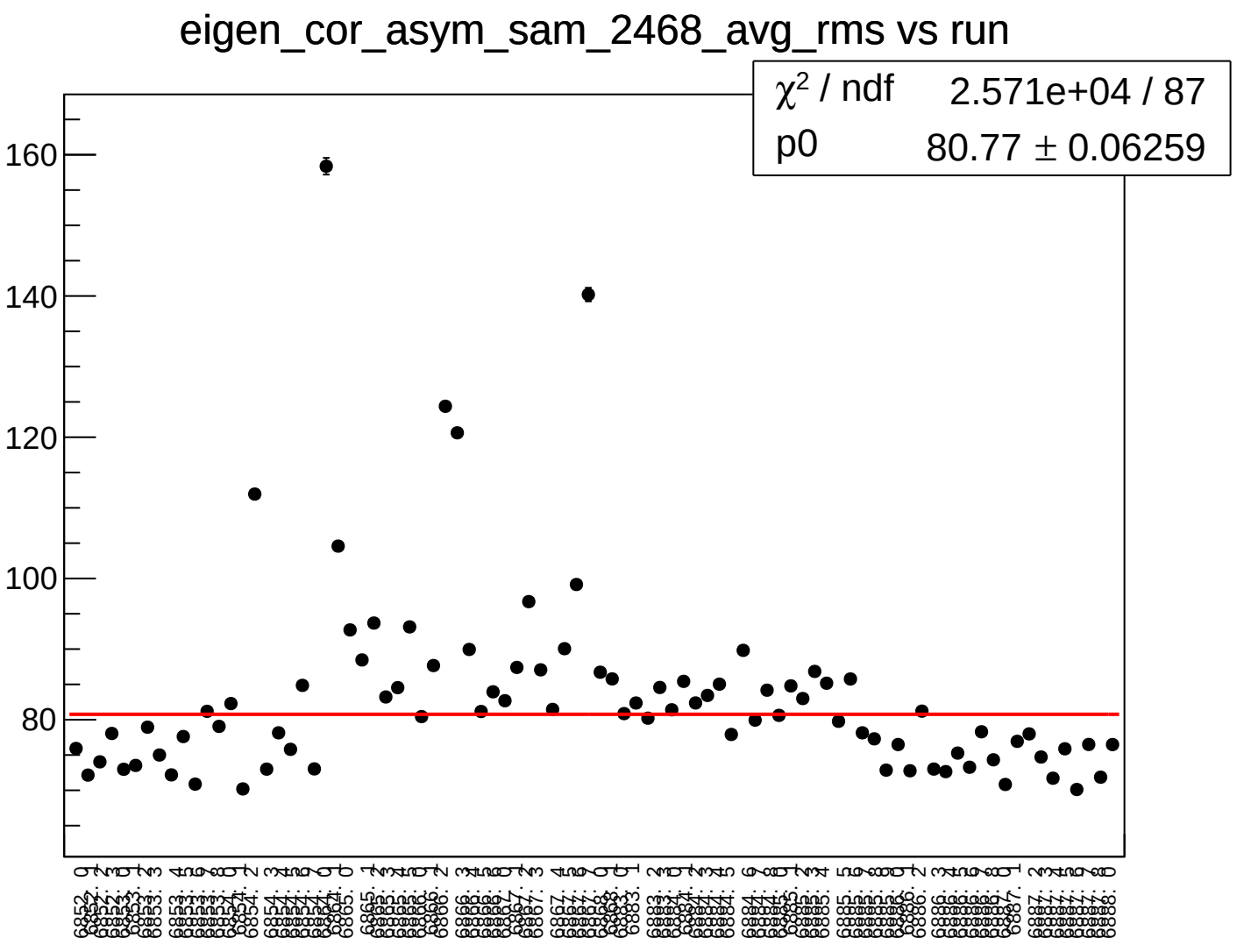

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 89.03 / 87
p0 −2603 ± 1063
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 88
Mean 321.3
Std Dev 0
2
1
0
−1
−2
−3

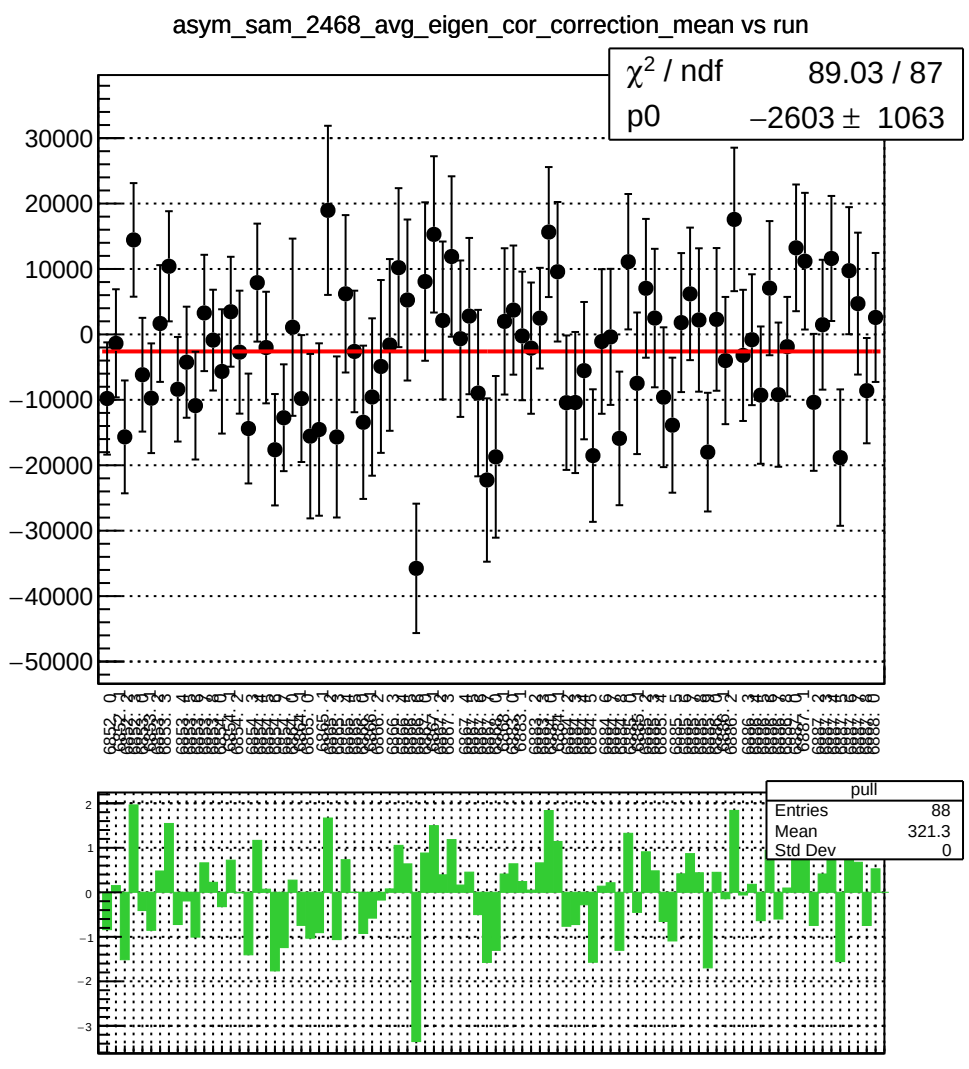

pull1D
Entries 88
Mean 0.01307
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

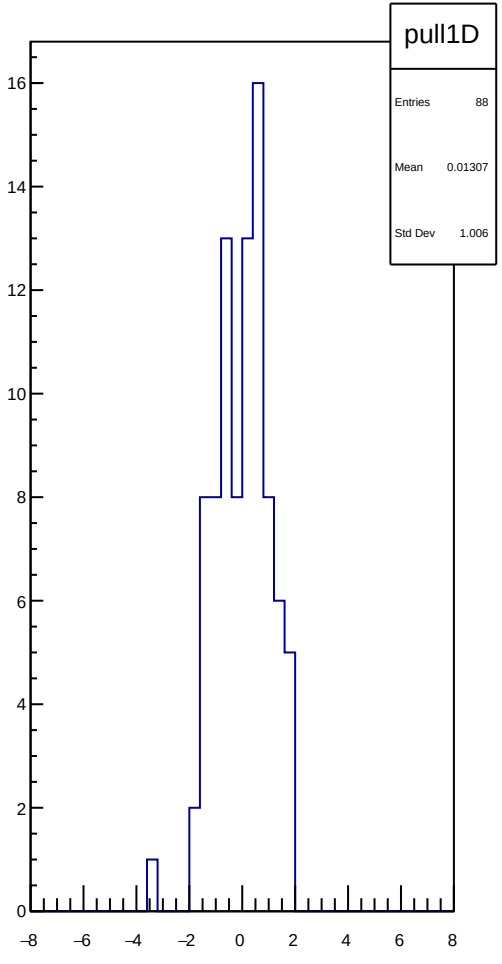

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 3.309e+04 / 87
p0 968.1 ± 0.7519
1300
1200
1100
1000
900
800
700

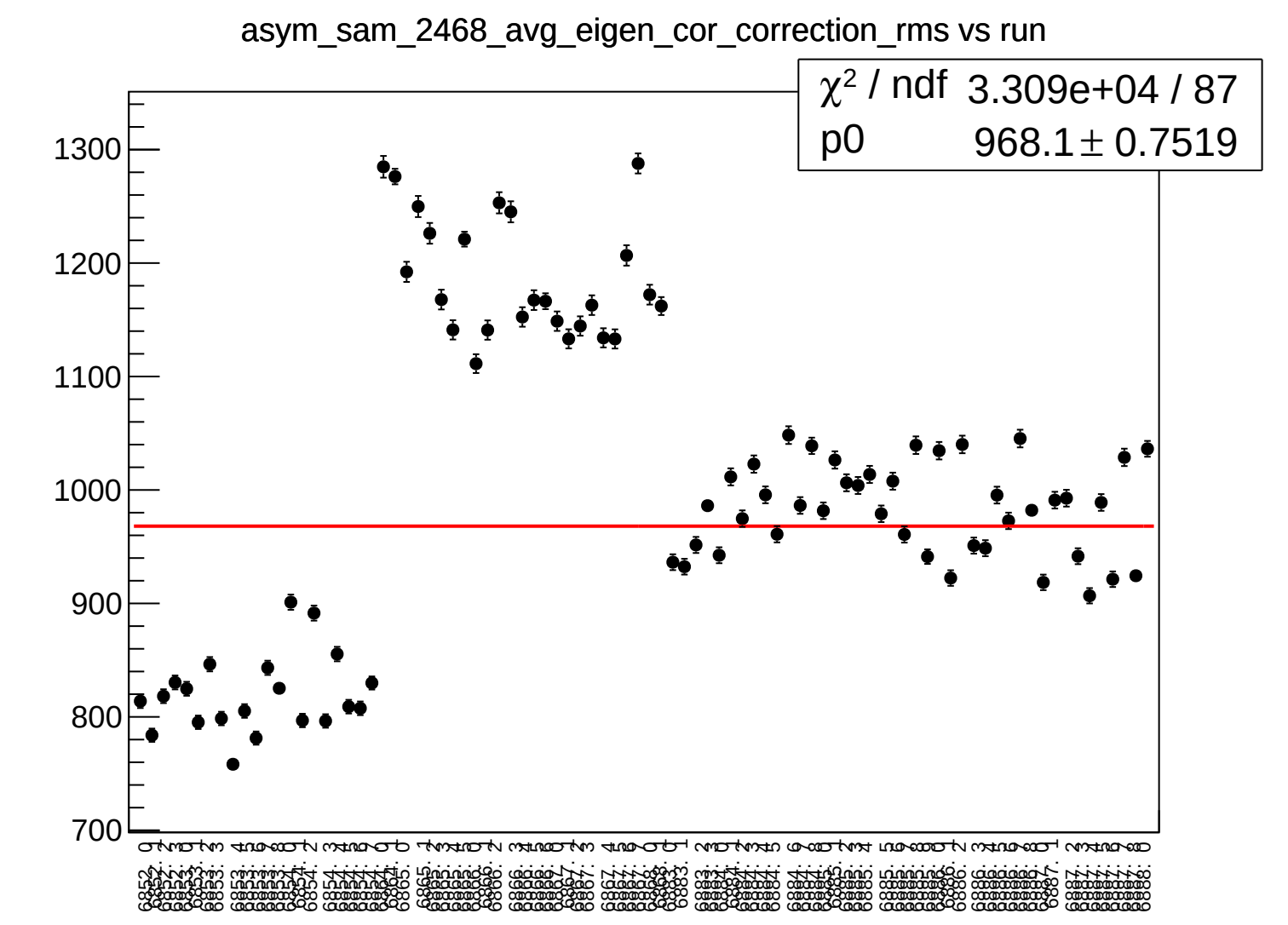

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 76.79 / 87
p0 −77.58 ± 88.52
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 88
Mean 2596
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

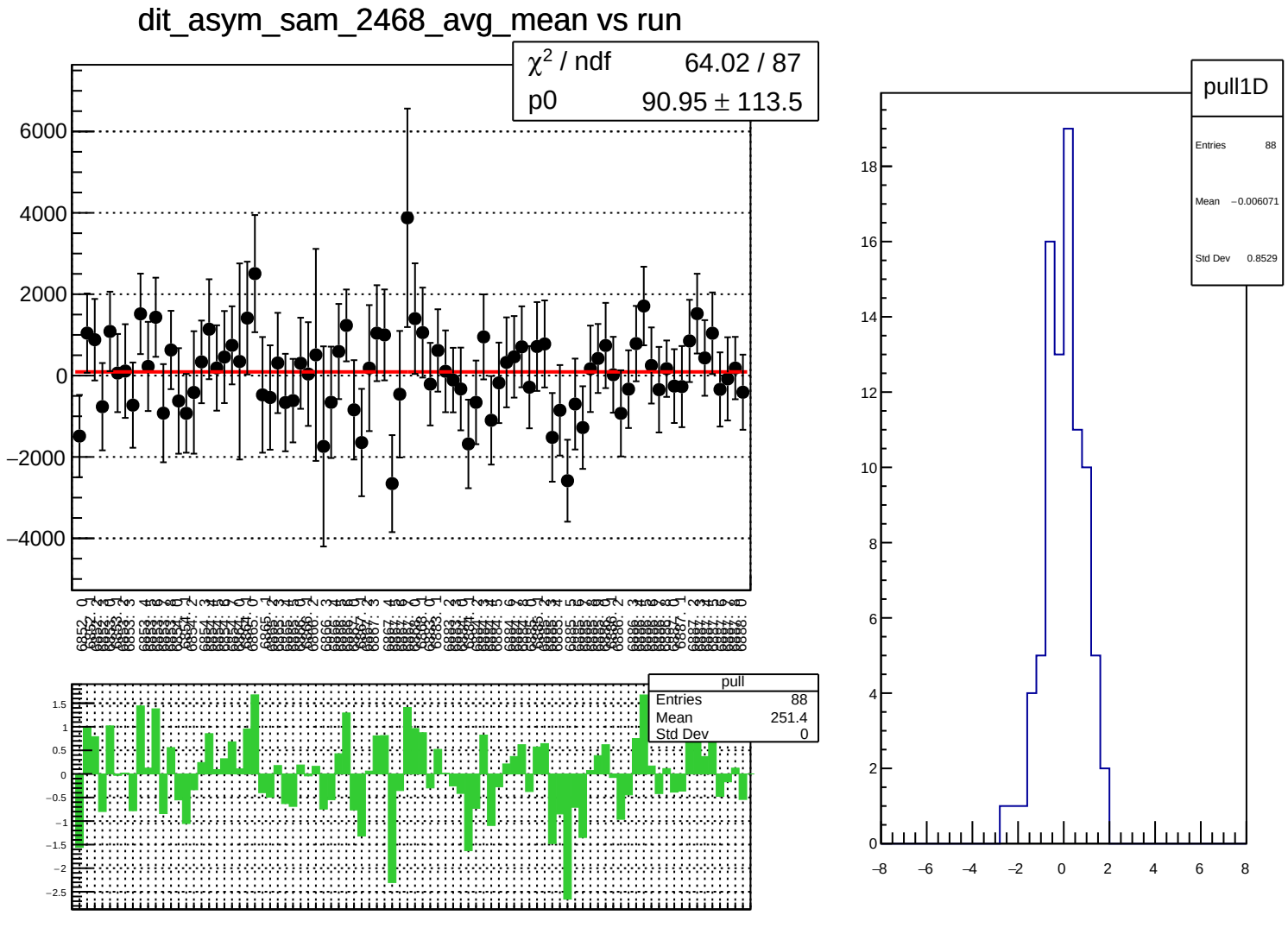

pull1D
Entries 88
Mean 9.48e−05
Std Dev 0.9341
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

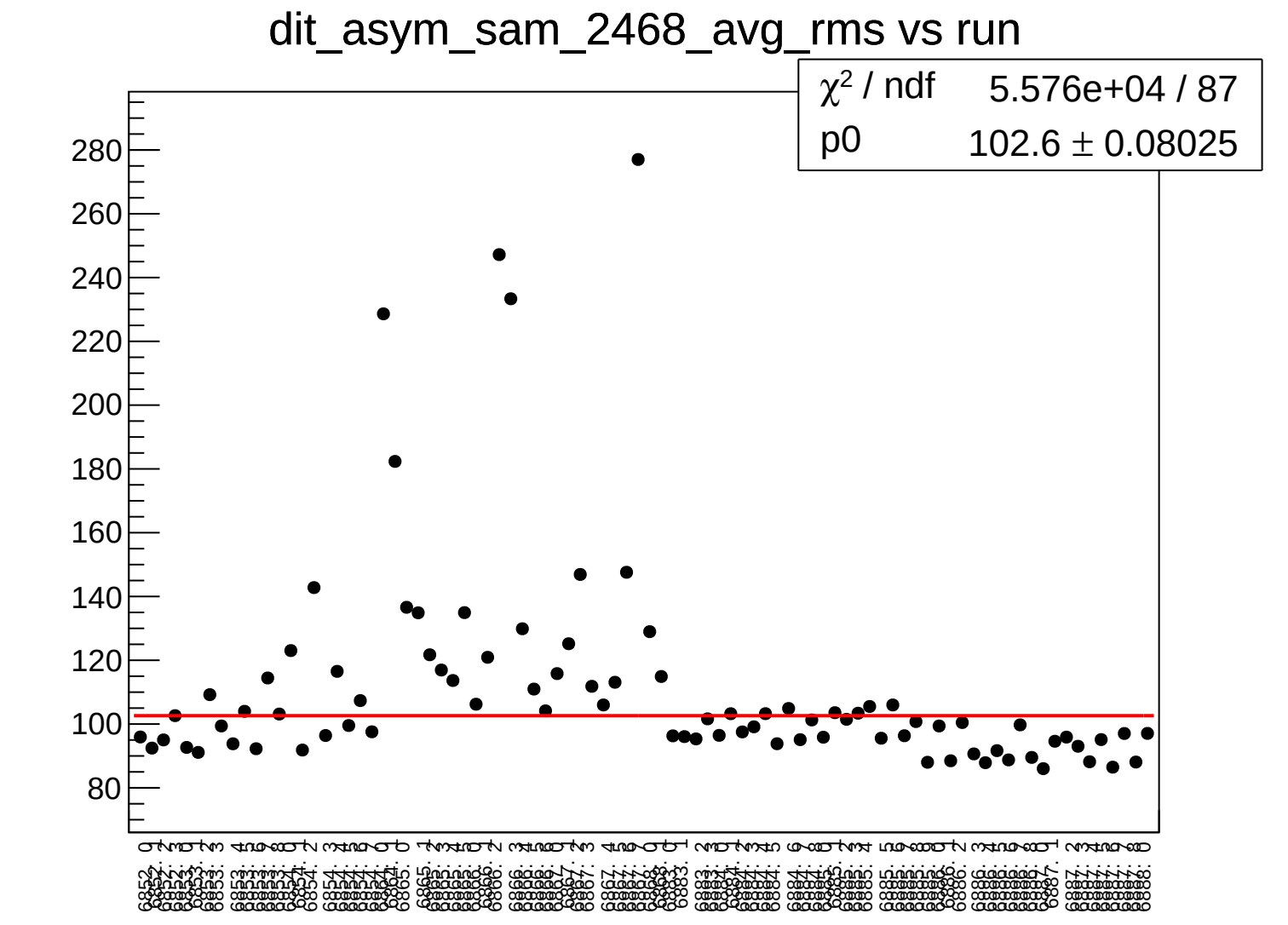

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.571e+04 / 87
p0 80.77 ± 0.06259
160
140
120
100
80

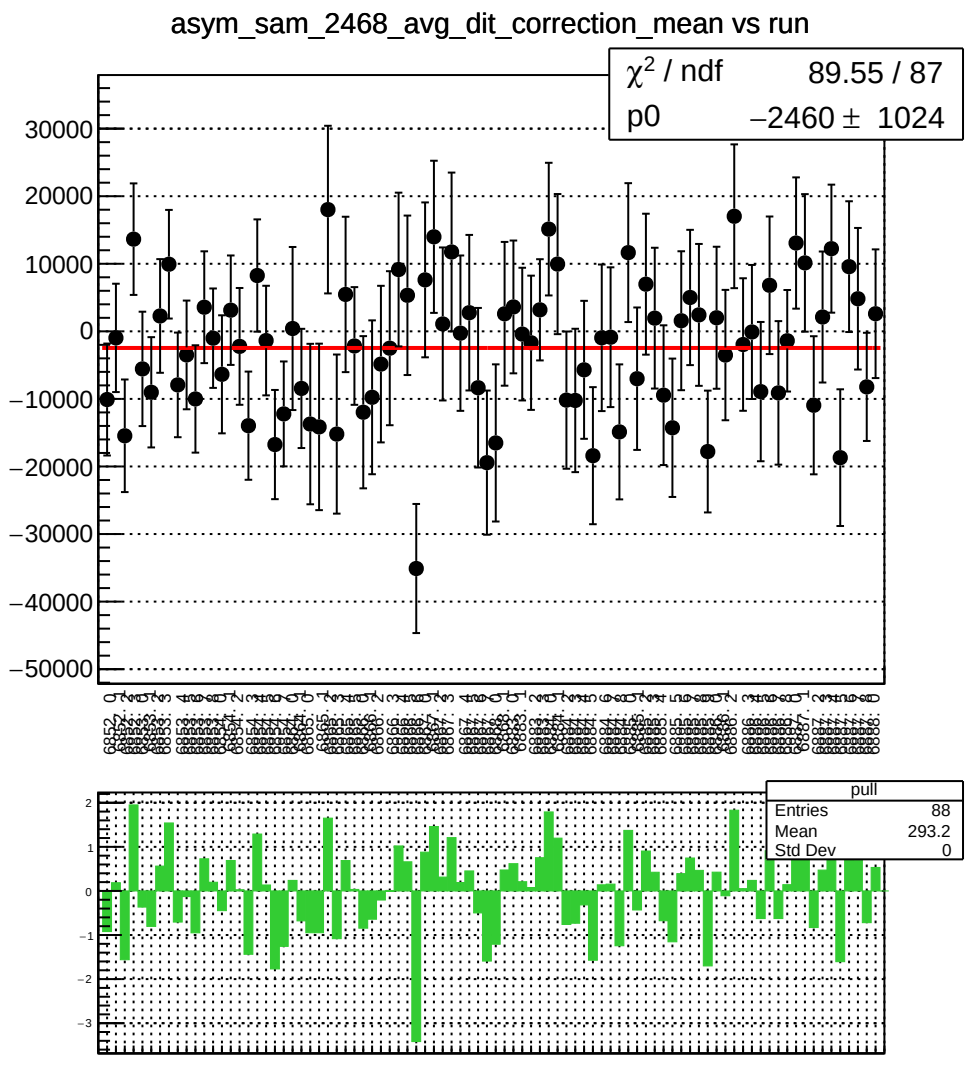

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.03 / 87
p0 −2603 ± 1063
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 88
Mean 321.3
Std Dev 0
2
1
0
−1
−2
−3

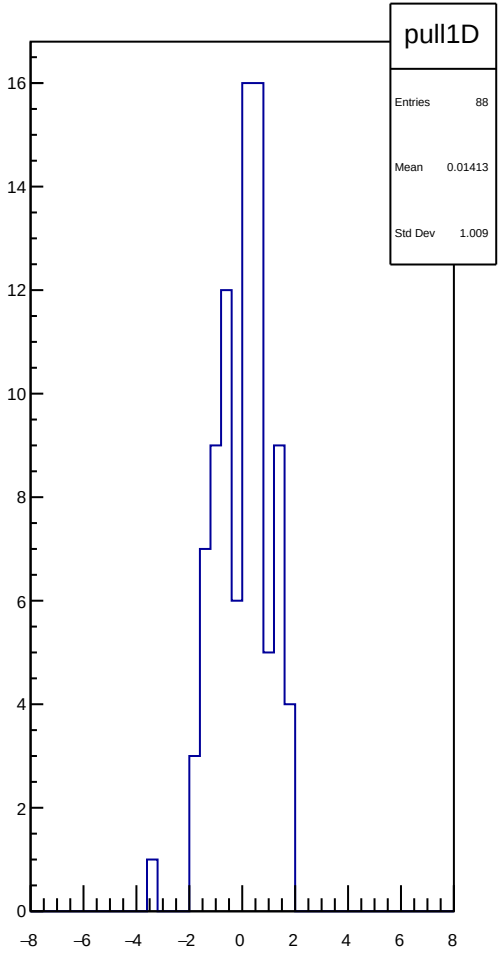

pull1D
Entries 88
Mean 0.01307
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

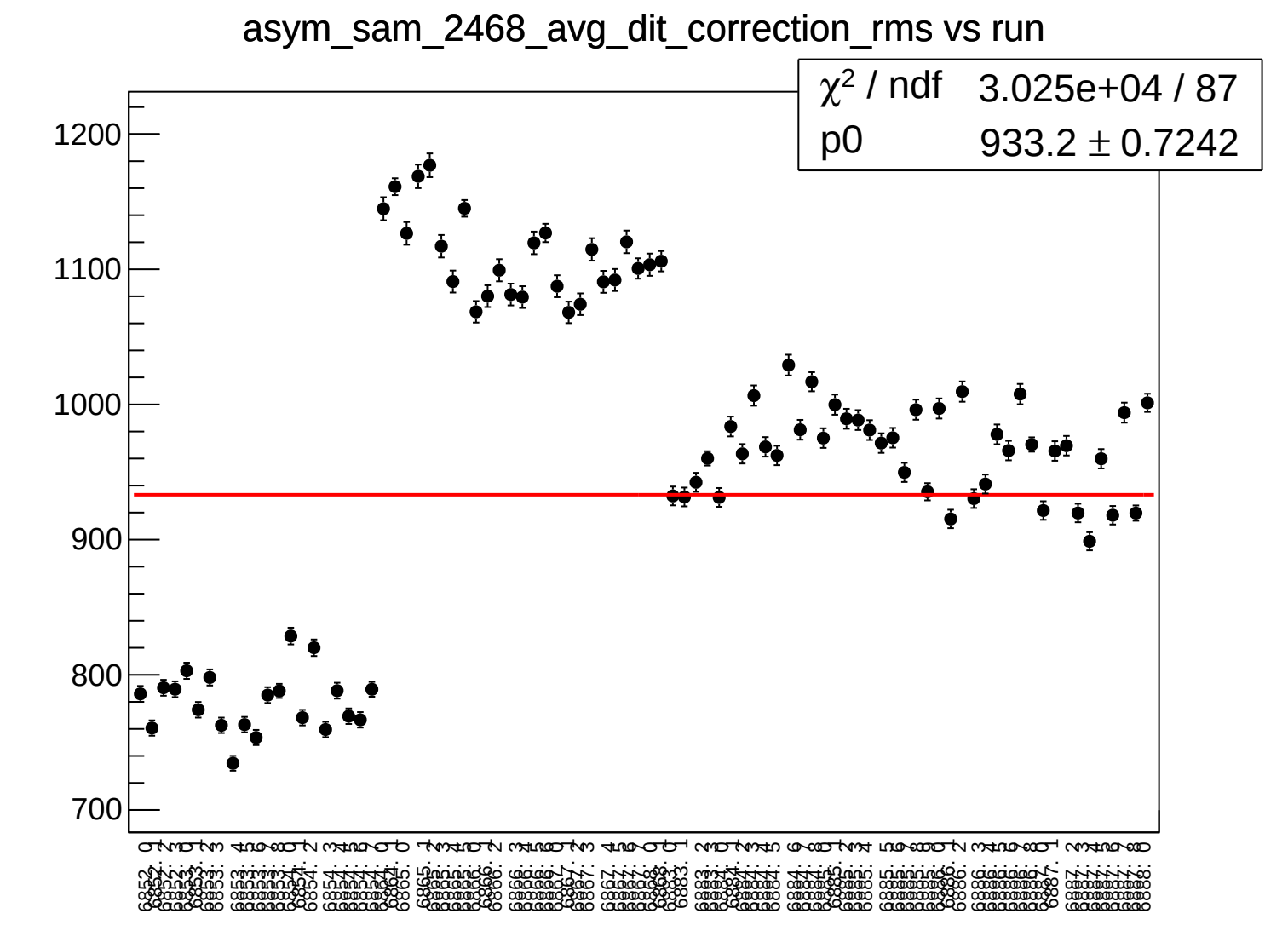

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.309e+04 / 87
p0 968.1 ± 0.7519
1300
1200
1100
1000
900
800
700

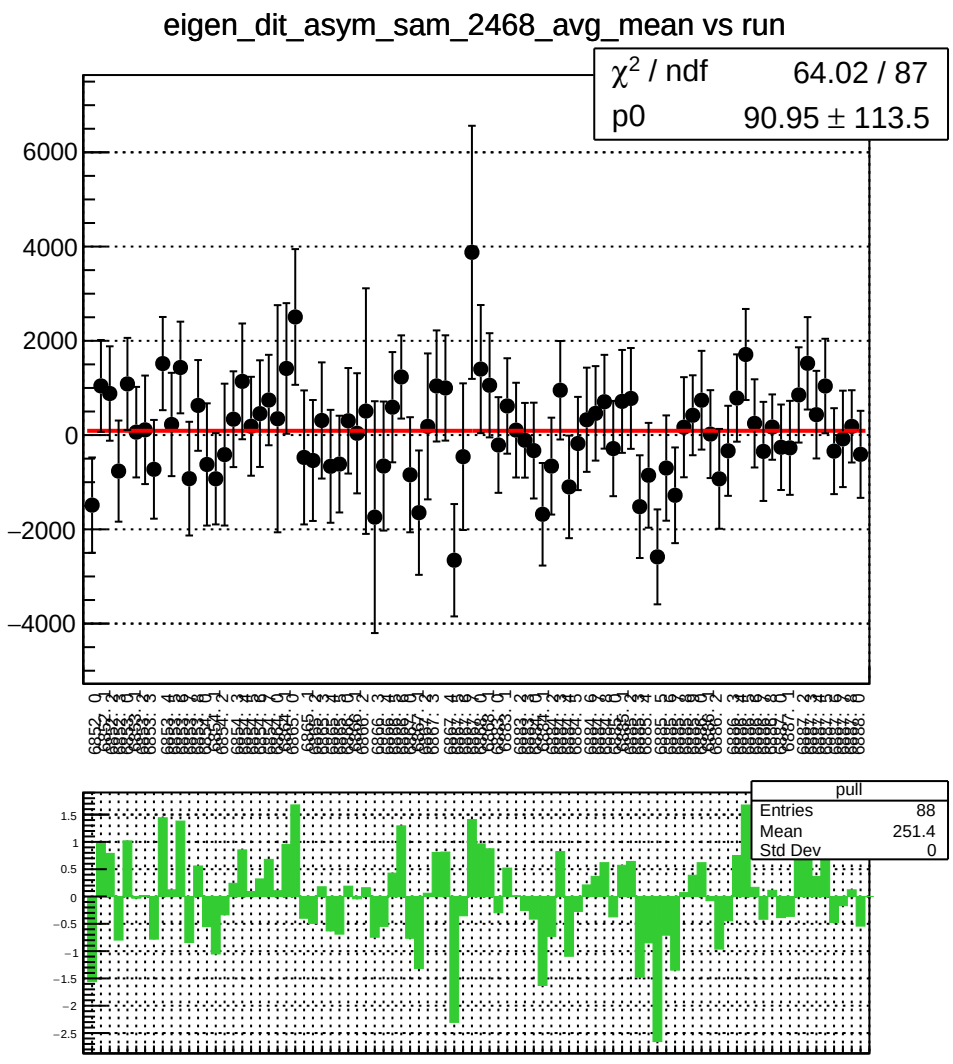

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 64.02 / 87
p0 90.95 ± 113.5
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 251.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean −0.006071
Std Dev 0.8529
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

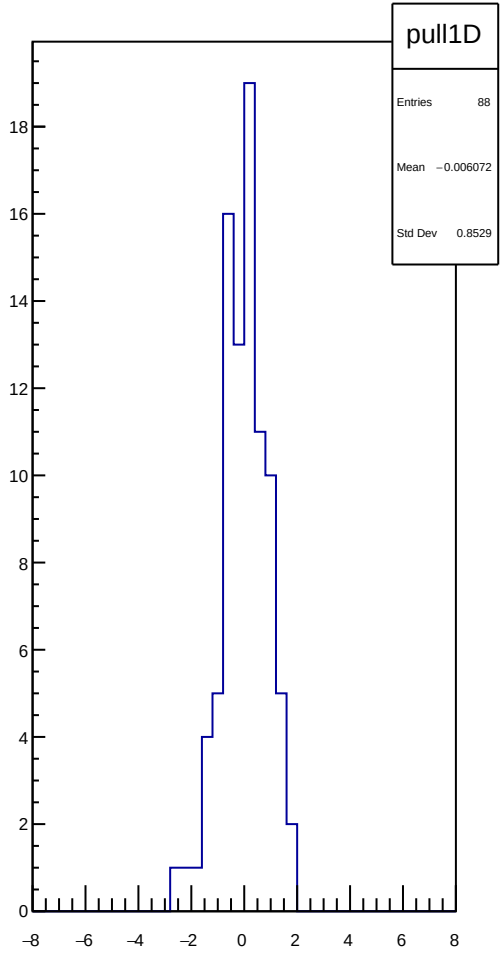

dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 5.576e+04 / 87
p0 102.6 ± 0.08025
280
260
240
220
200
180
160
140
120
100
80

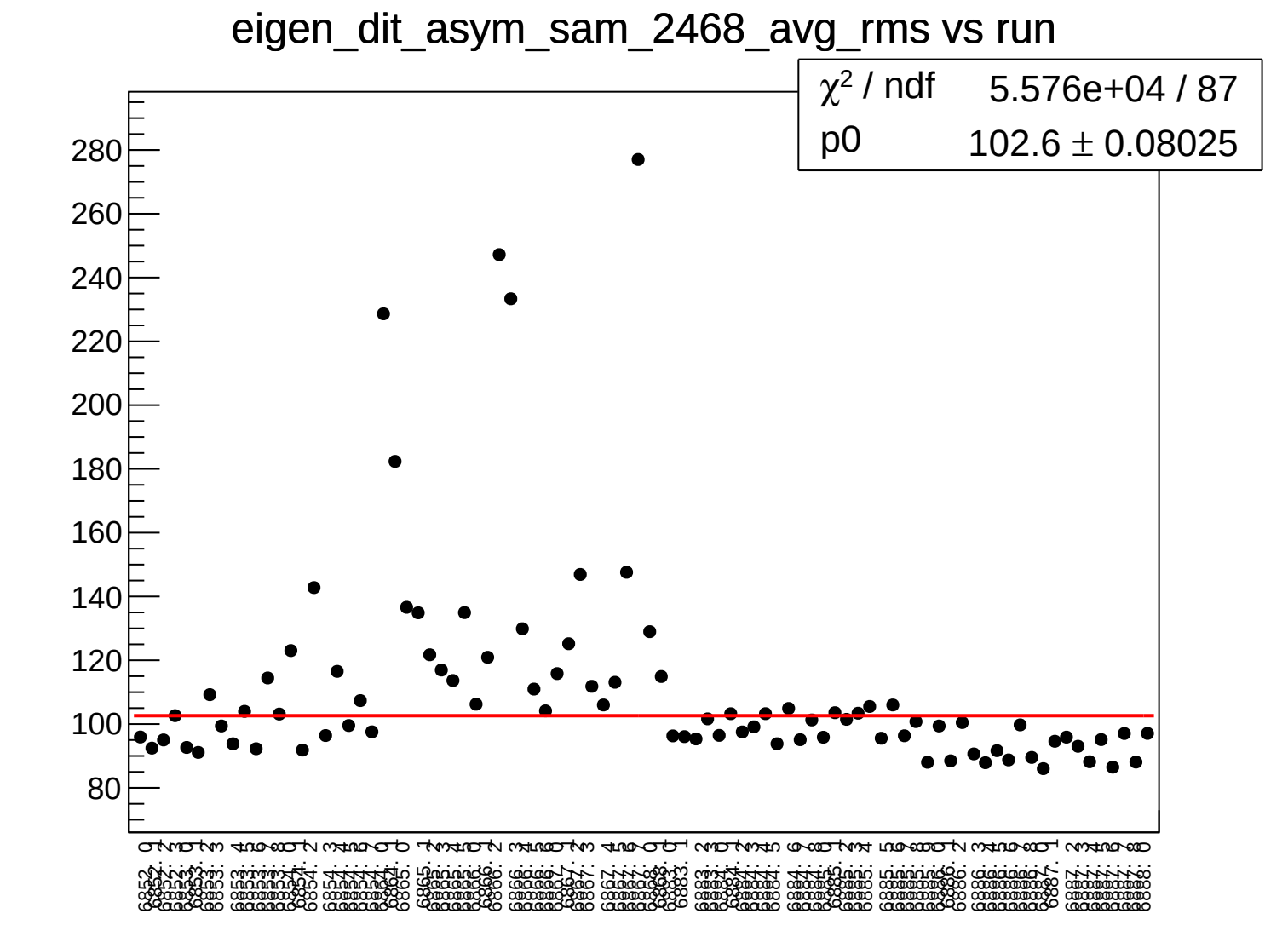

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 89.55 / 87
p0 −2460 ± 1024
pull
Entries 88
Mean 293.2
Std Dev 0

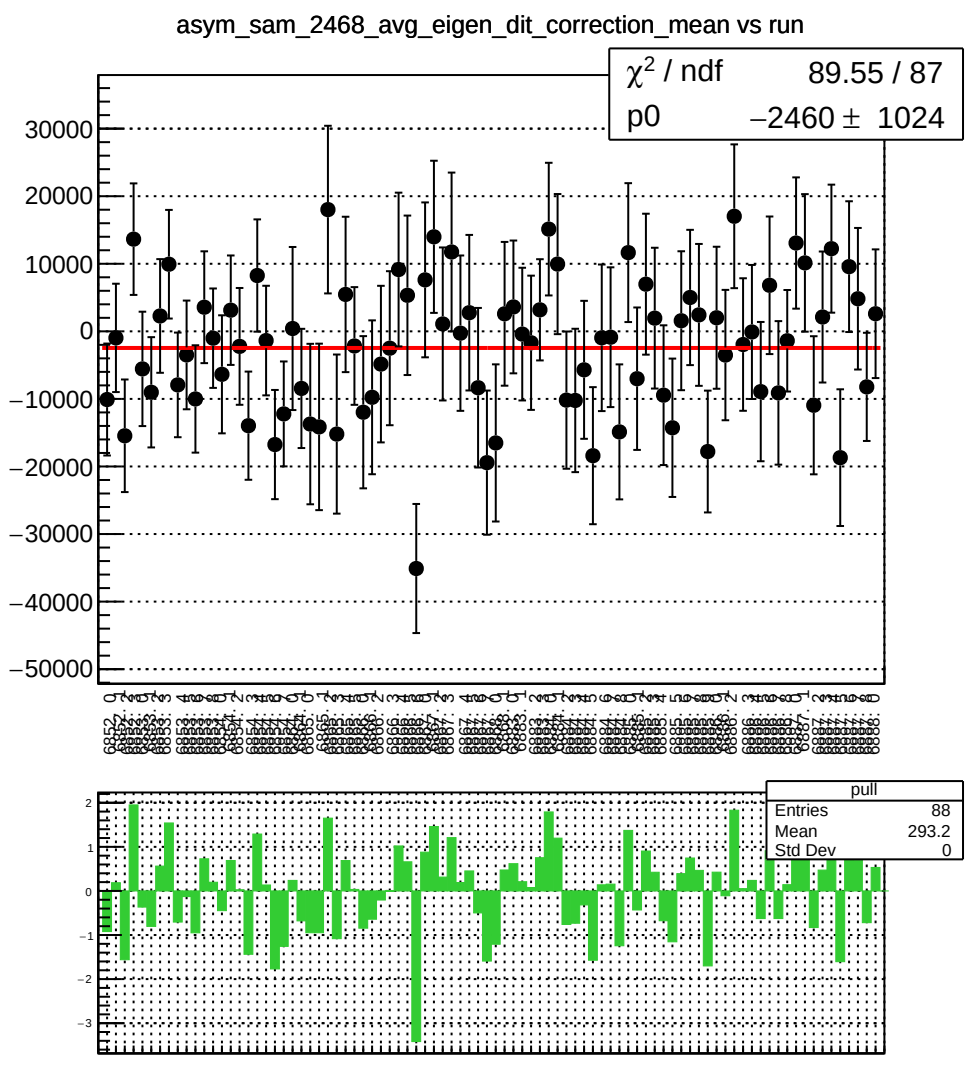

pull1D
Entries 88
Mean 0.01413
Std Dev 1.009

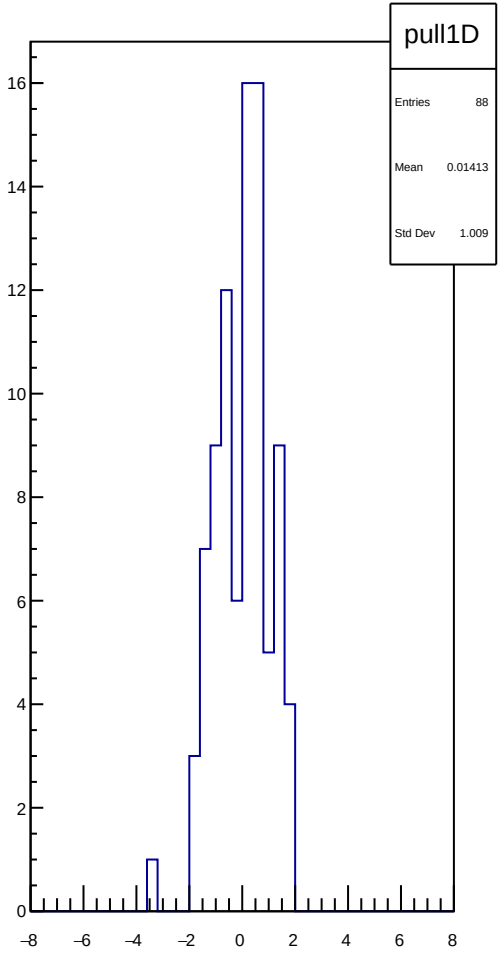

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 3.025e+04 / 87
p0 933.2 ± 0.7242
1200
1100
1000
900
800
700

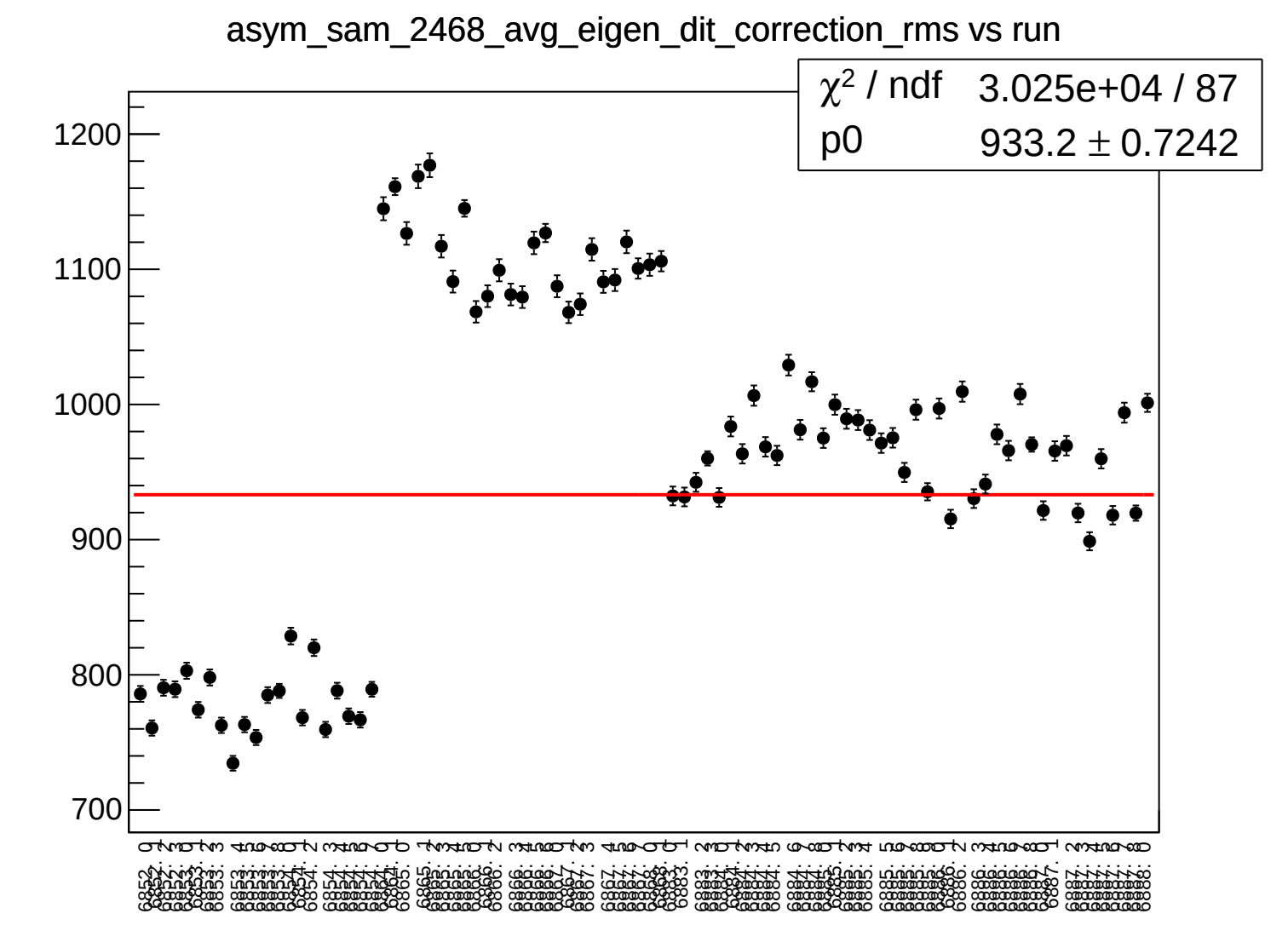

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 64.02 / 87
p0 90.95 ± 113.5
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 251.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

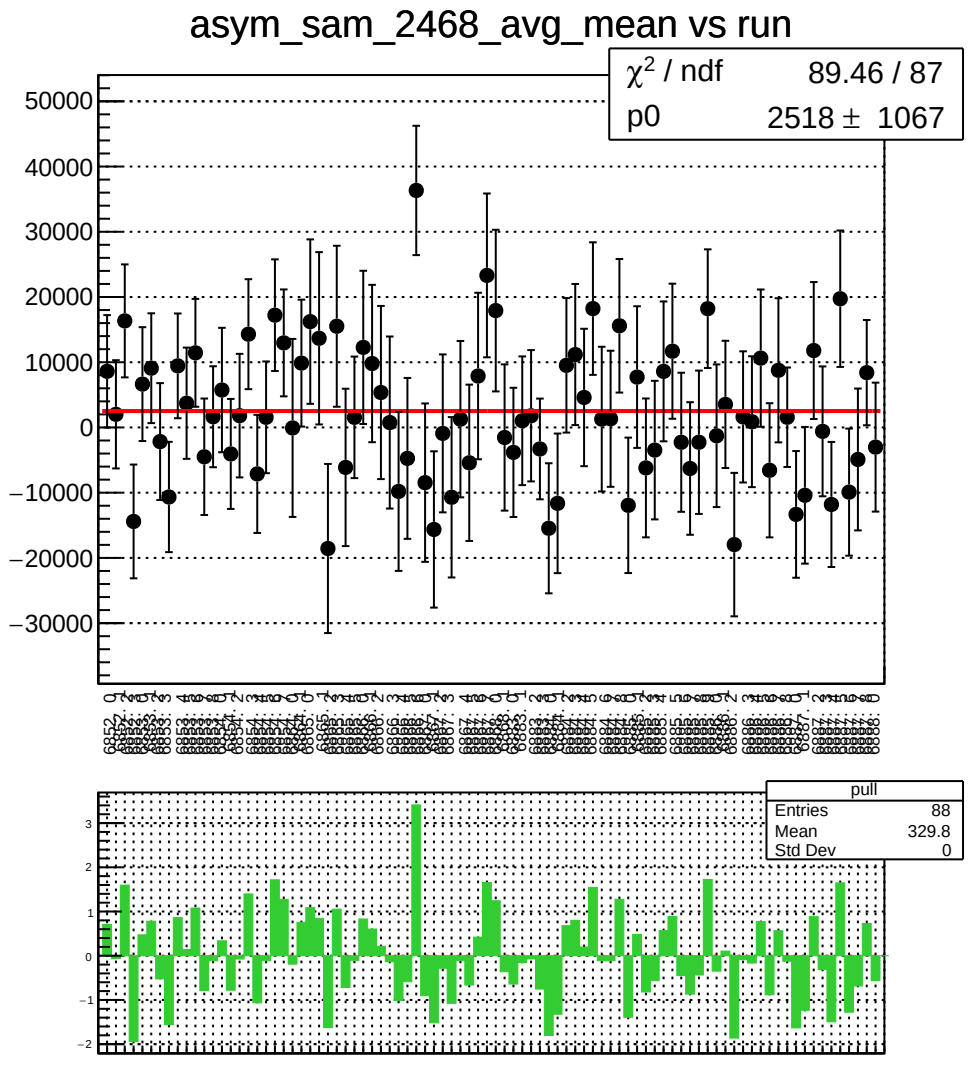

pull1D
Entries 88
Mean −0.006072
Std Dev 0.8529
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

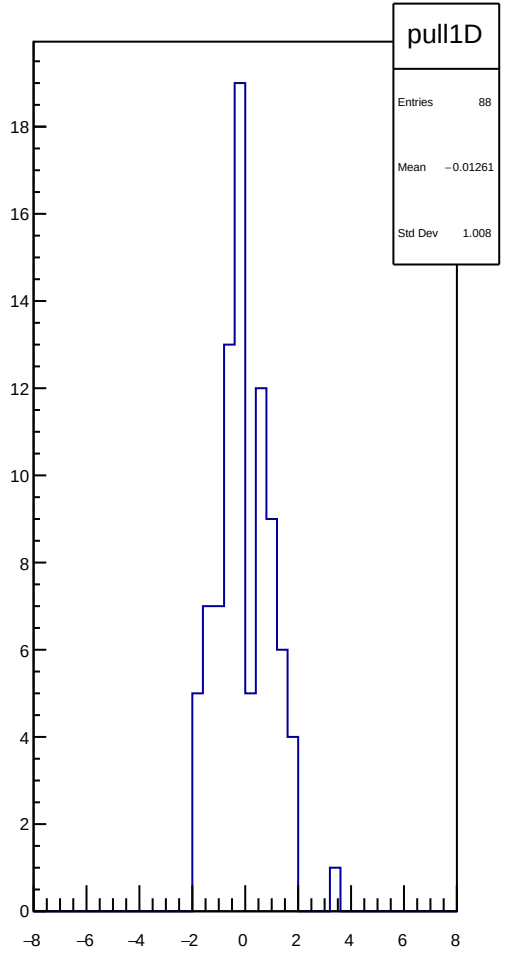

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 5.576e+04 / 87
p0 102.6 ± 0.08025
280
260
240
220
200
180
160
140
120
100
80

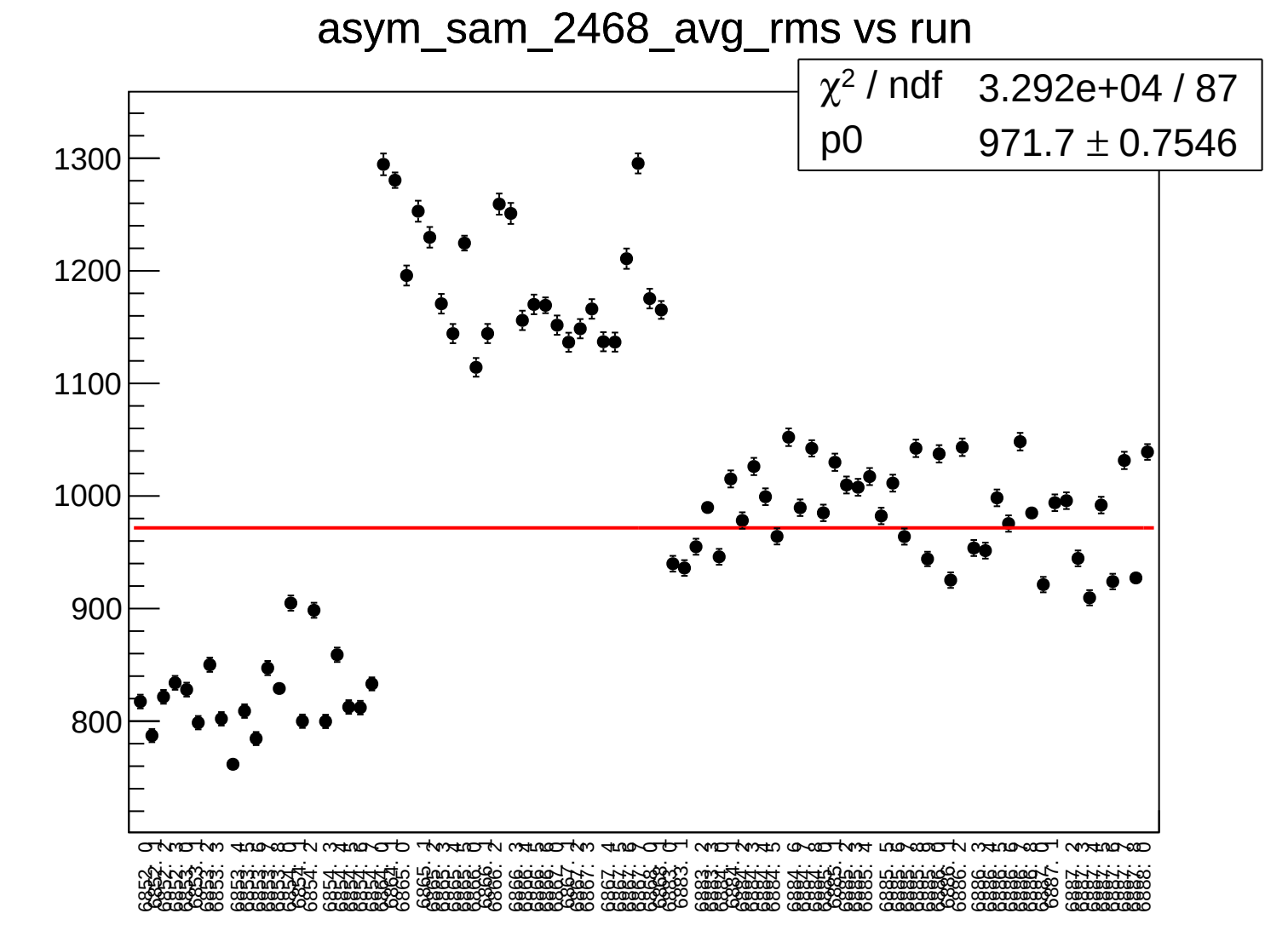

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.55 / 87
p0 −2460 ± 1024
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 88
Mean 293.2
Std Dev 0
2
1
0
−1
−2
−3

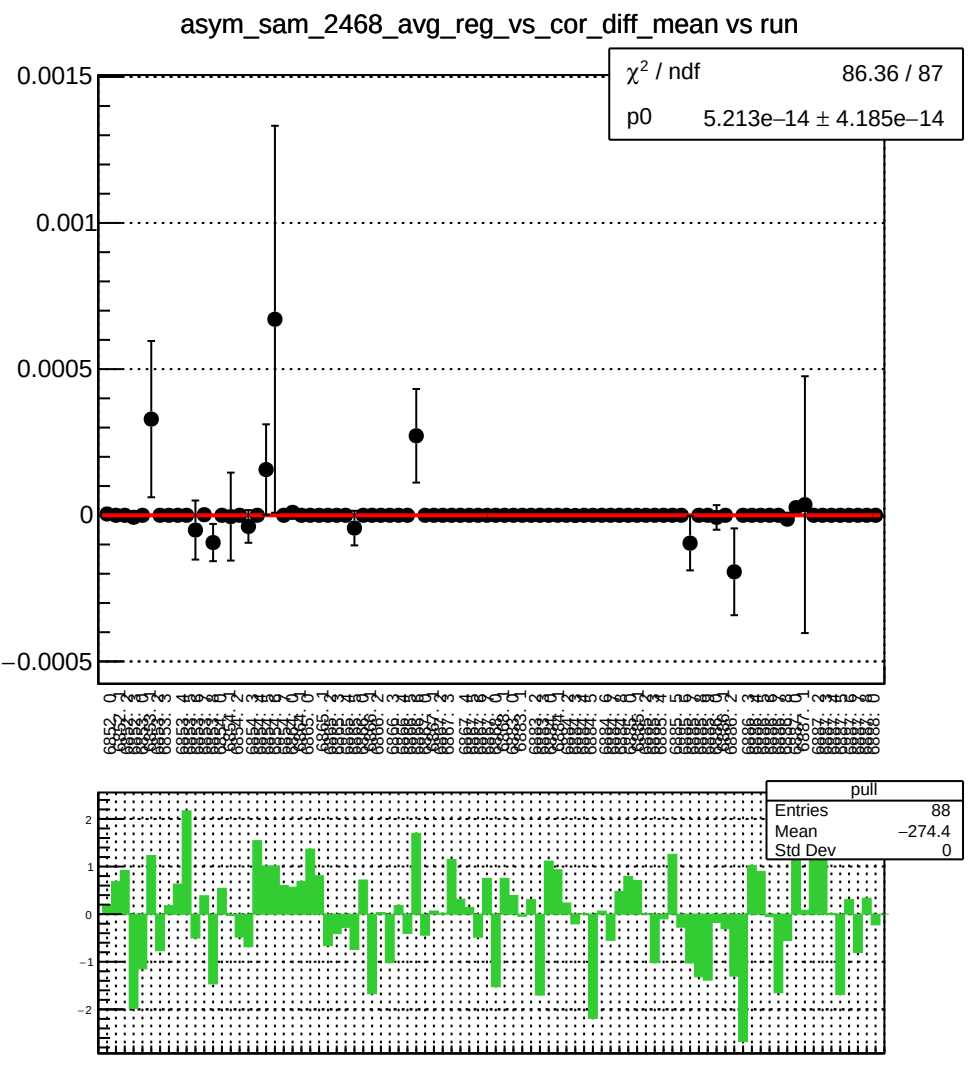

pull1D
Entries 88
Mean 0.01413
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

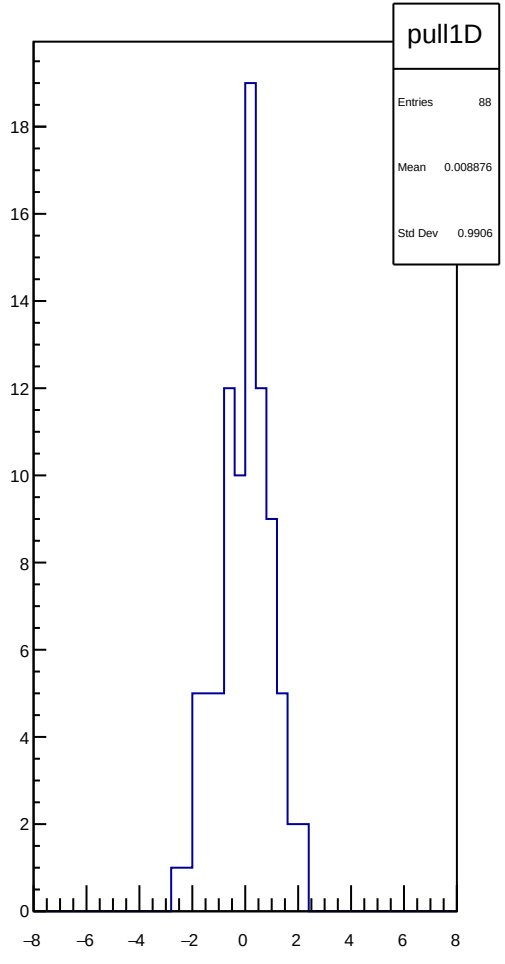

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.025e+04 / 87
p0 933.2 ± 0.7242
1200
1100
1000
900
800
700

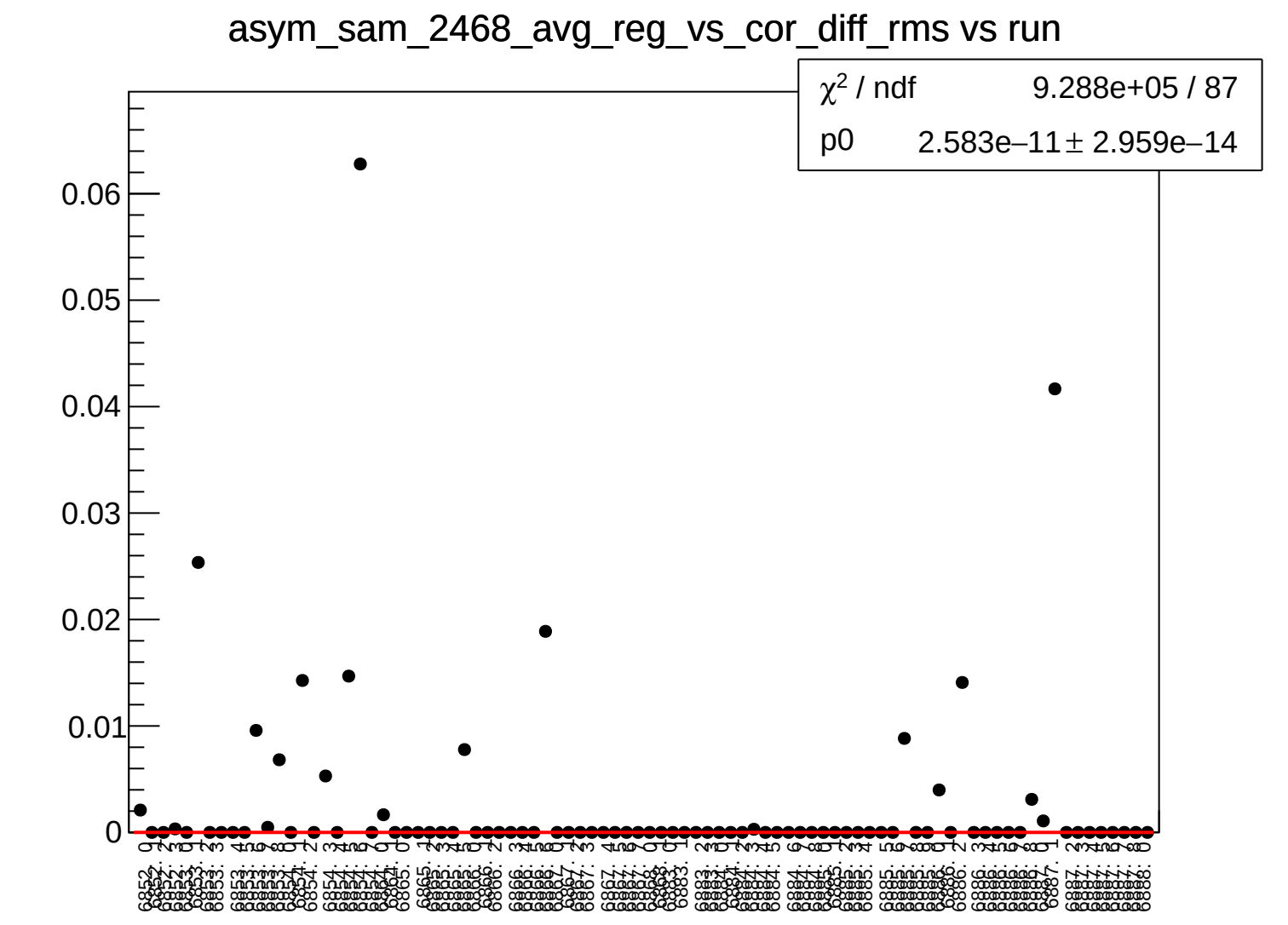

asym_sam_2468_avg_mean vs run
χ² / ndf 89.46 / 87
p0 2518 ± 1067
pull
Entries 88
Mean 329.8
Std Dev 0


pull1D
Entries 88
Mean −0.01261
Std Dev 1.008

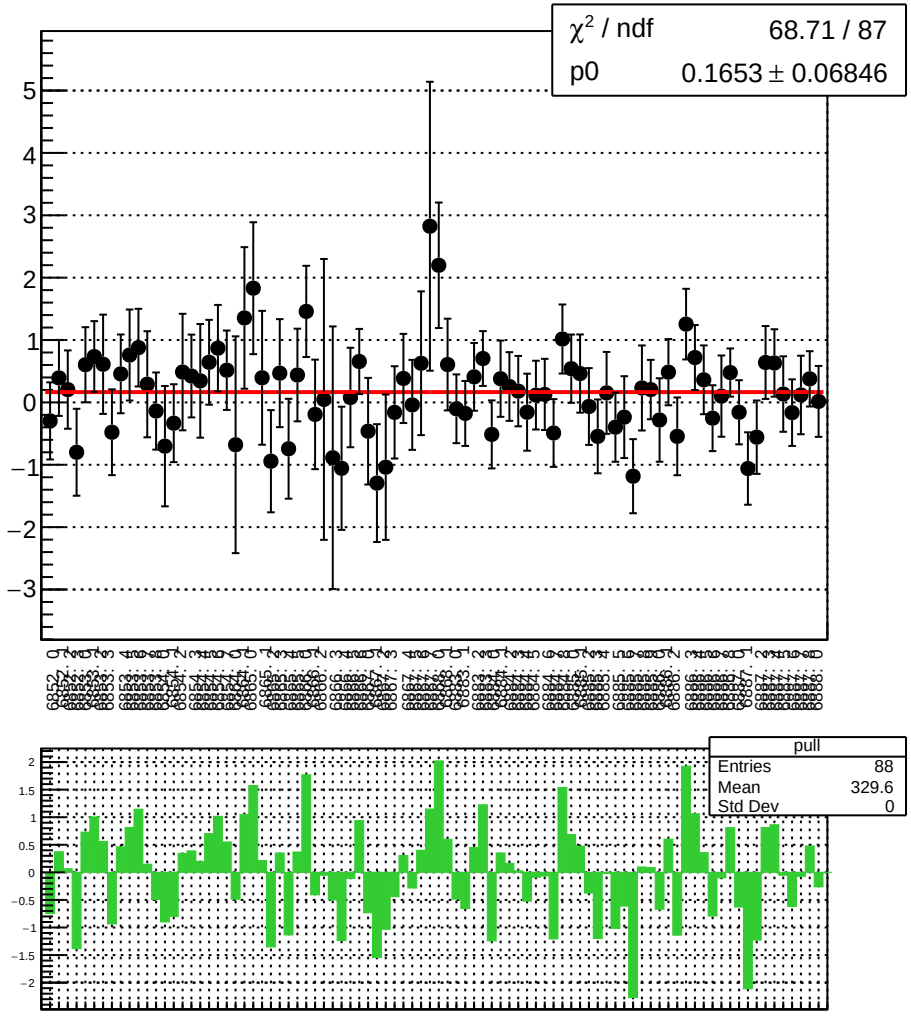

asym_sam_2468_avg_rms vs run
χ² / ndf 3.292e+04 / 87
p0 971.7 ± 0.7546
1300
1200
1100
1000
900
800

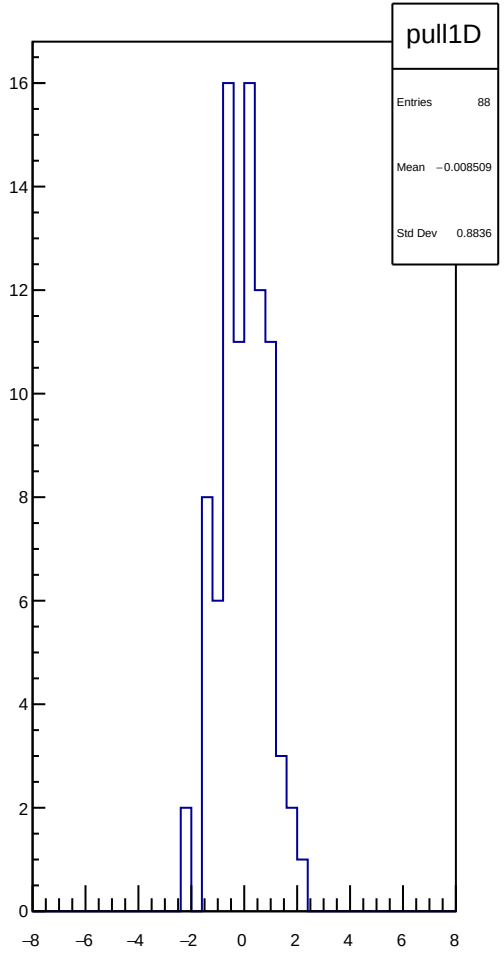

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.36 / 87
p0 5.213e−14 ± 4.185e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 88
Mean −274.4
Std Dev 0
2
1
0
−1
−2

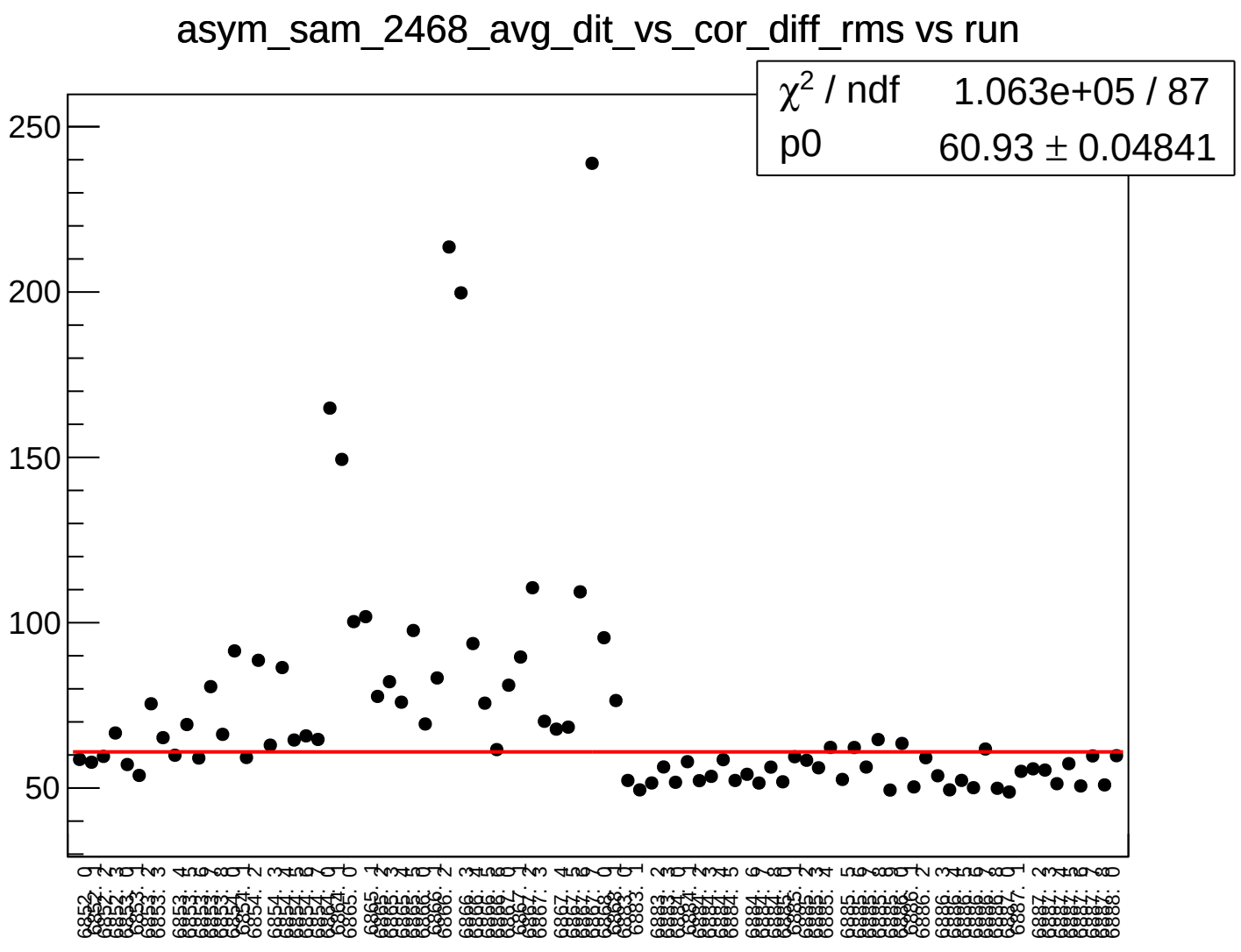

pull1D
Entries 88
Mean 0.008876
Std Dev 0.9906
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

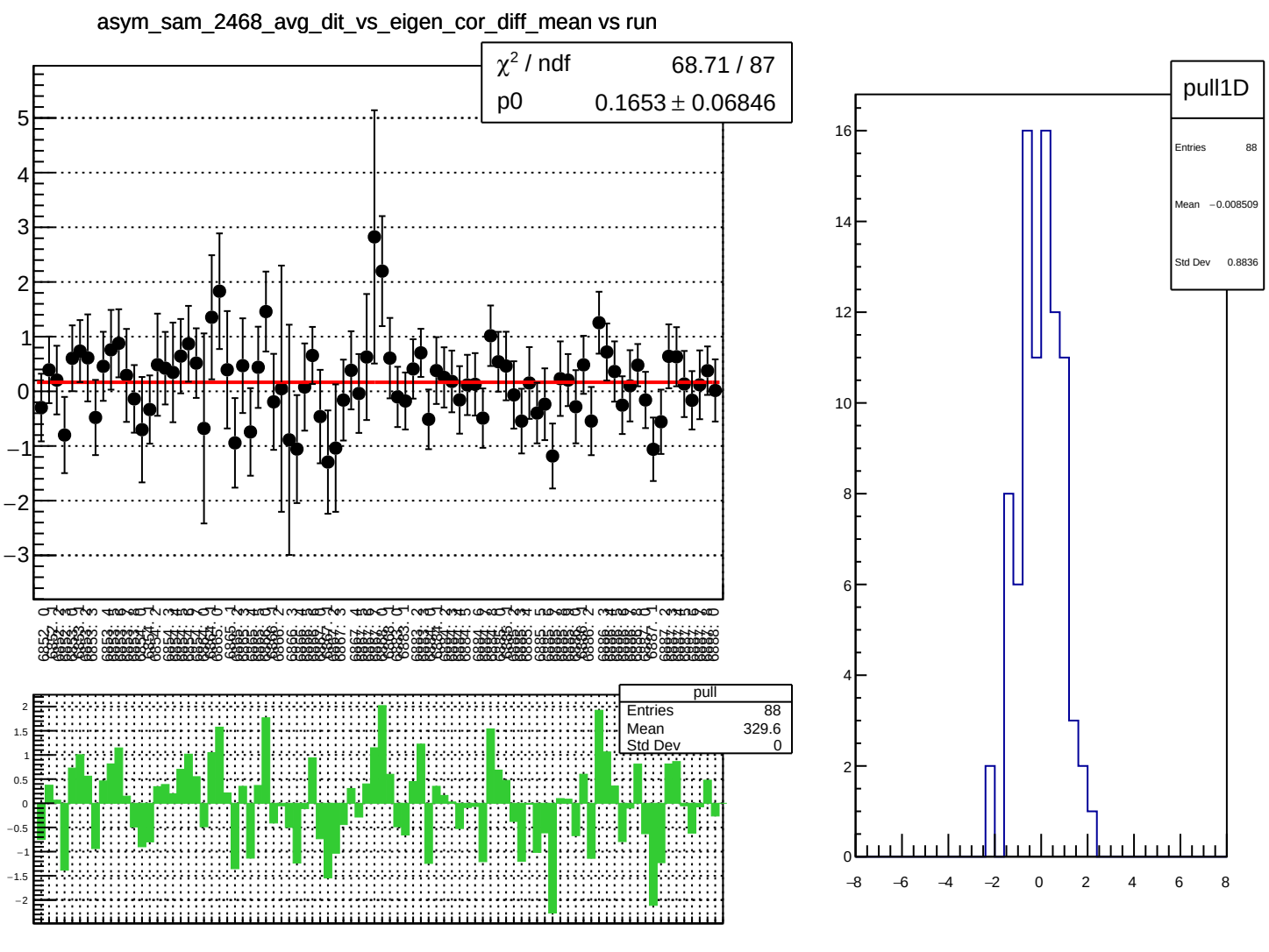

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.288e+05 / 87
p0 2.583e−11 ± 2.959e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

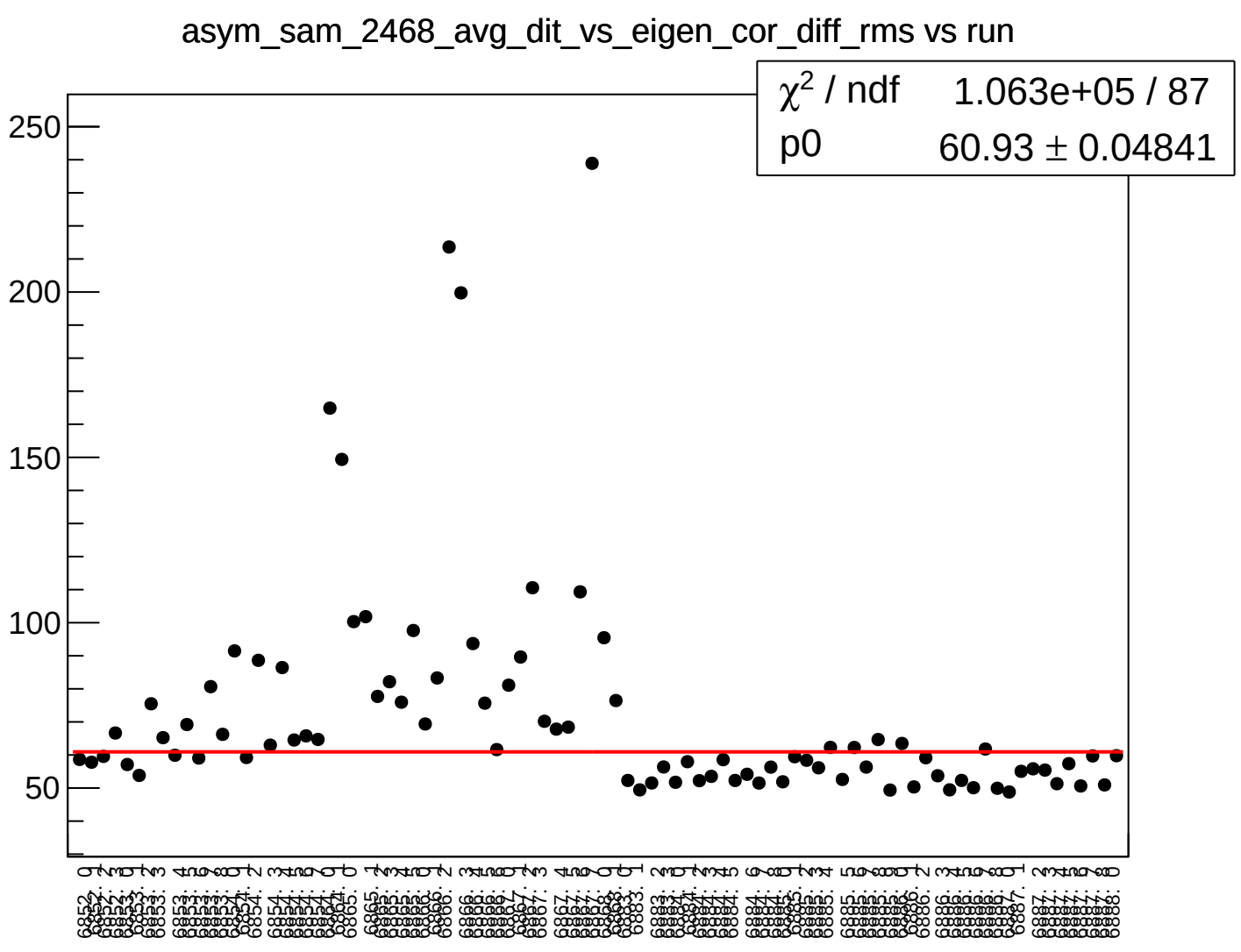
asym_sam_2468_avg_dit_vs_cor_diff_mean vs run

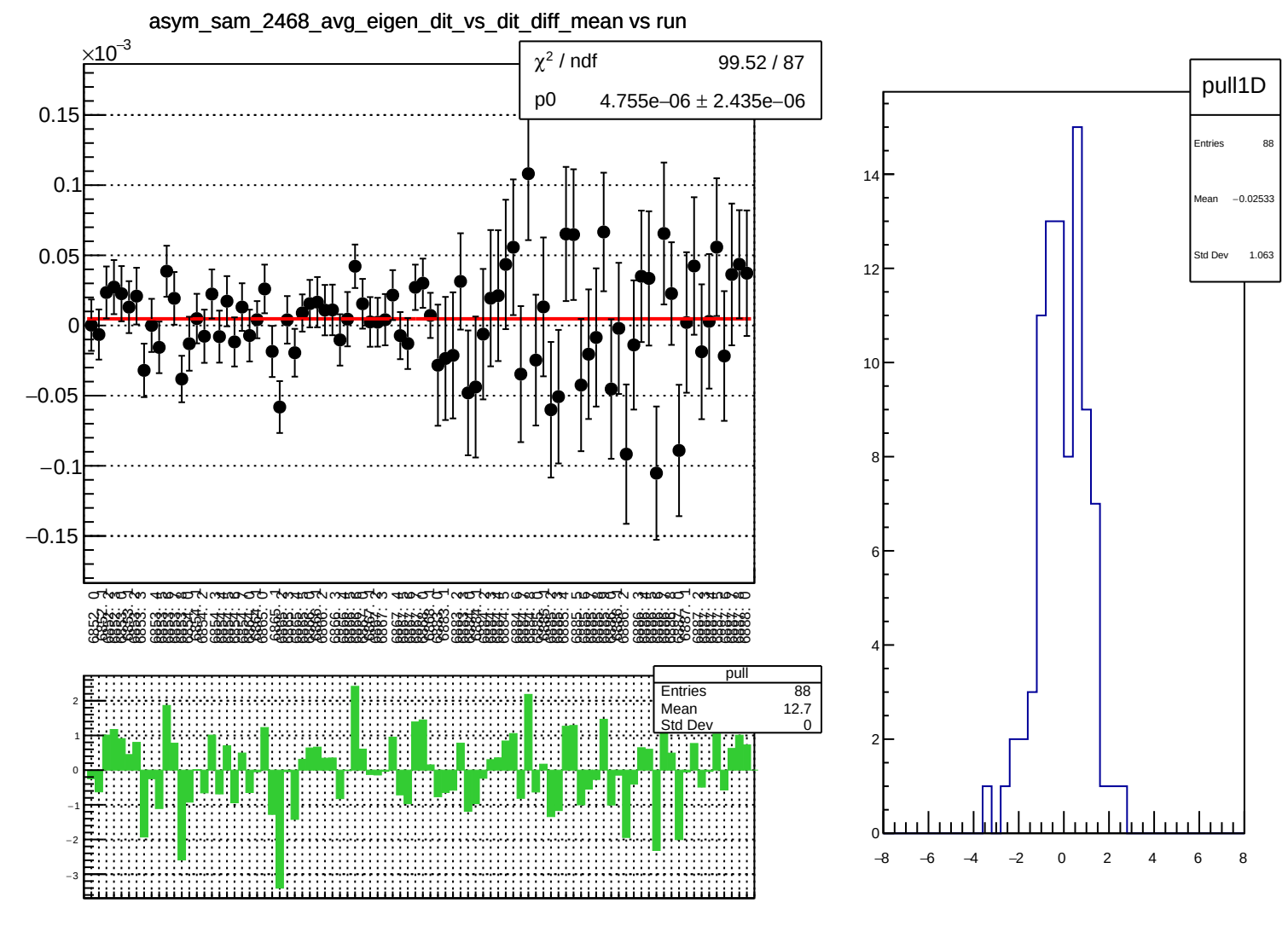


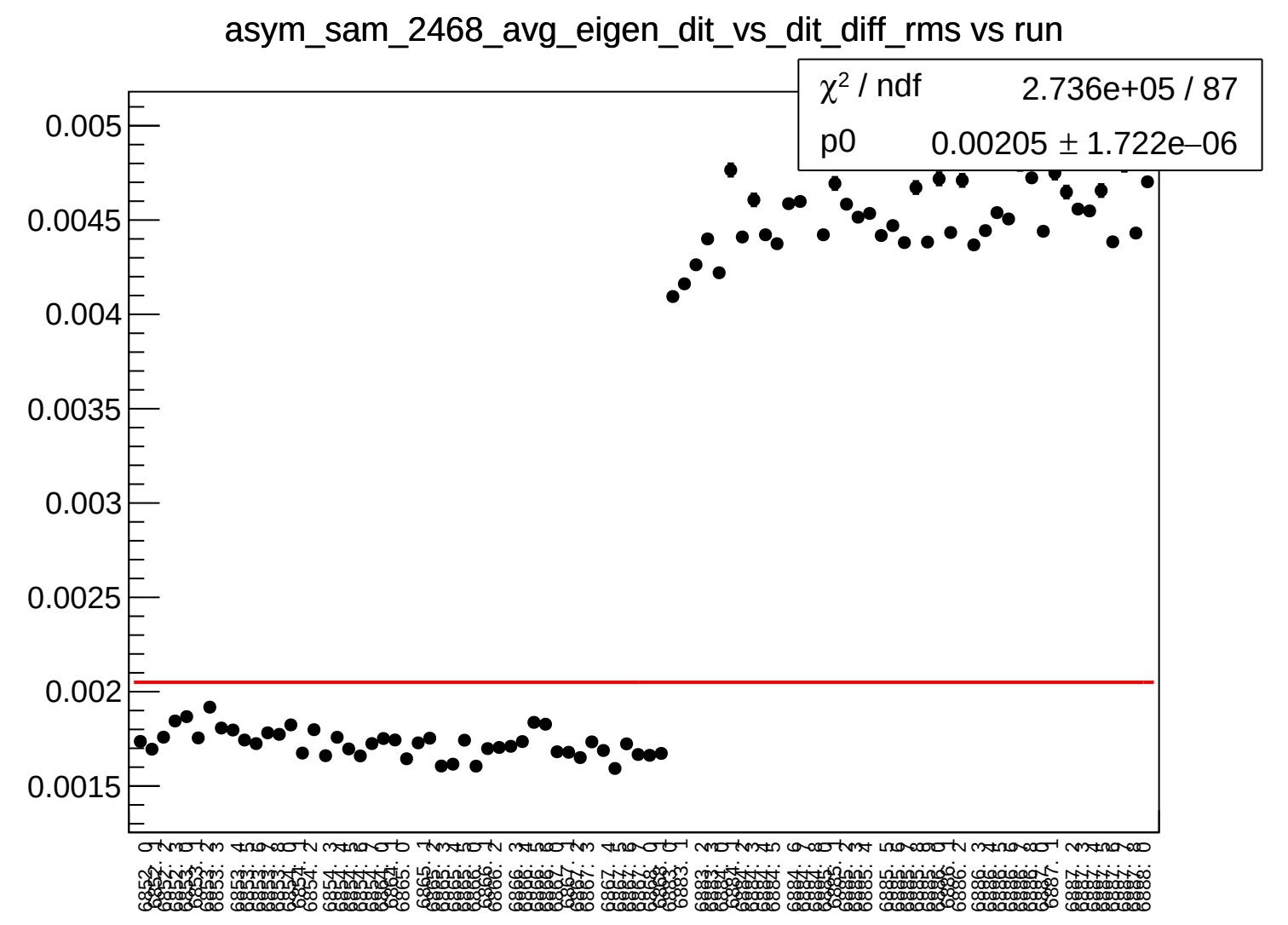


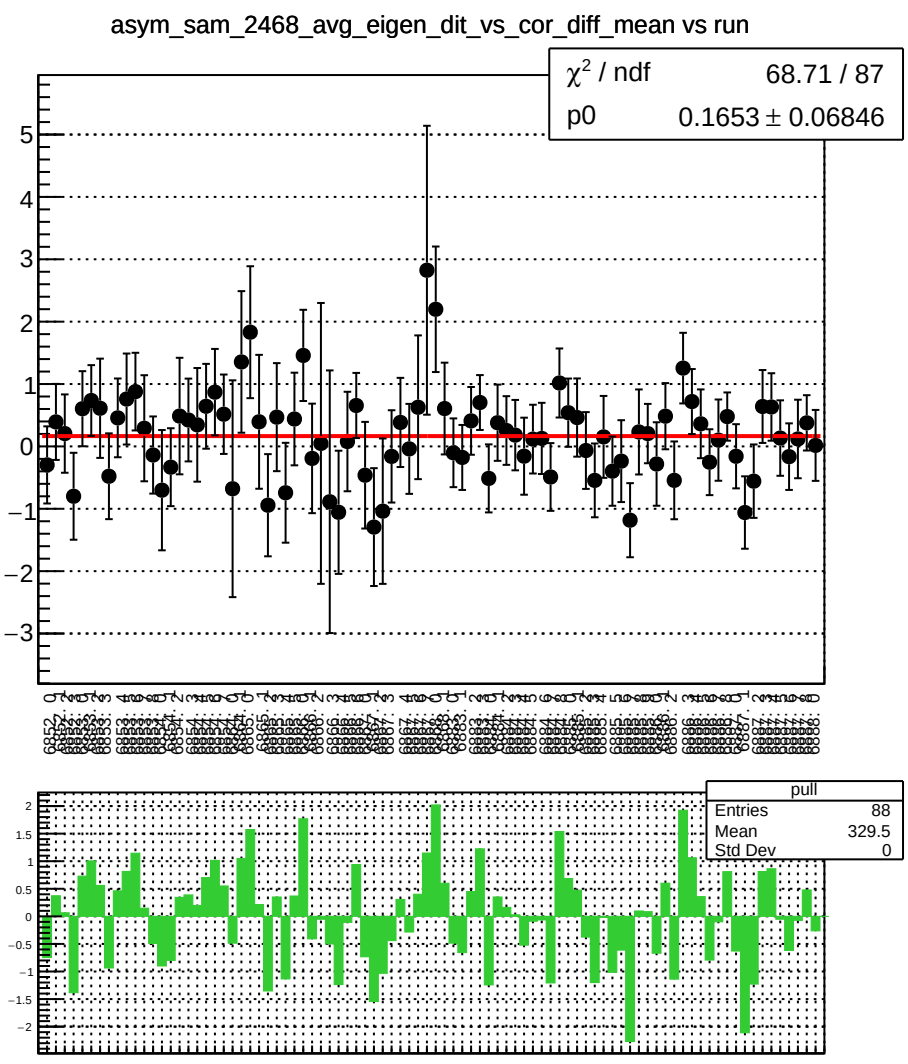

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.063e+05 / 87
p0 60.93 ± 0.04841
250
200
150
100
50

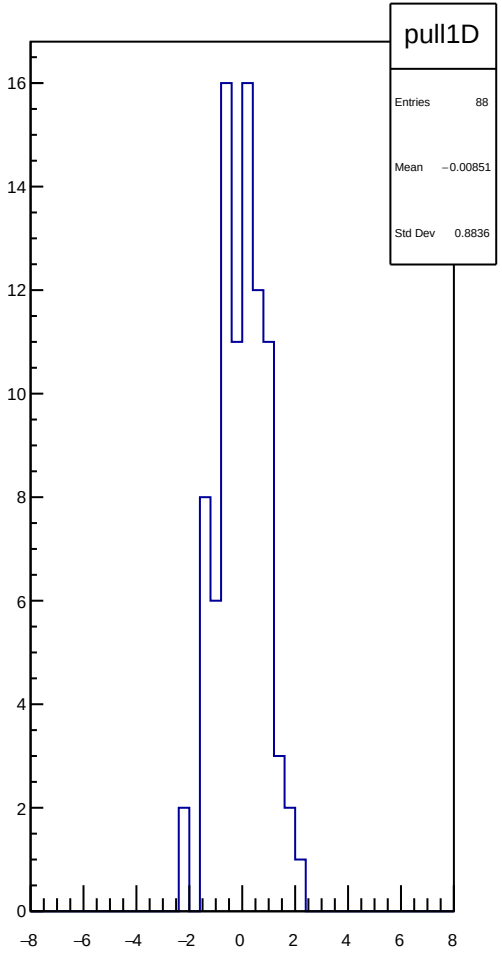

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.71 / 87
p0 0.1653 ± 0.06846
pull
Entries 88
Mean 329.6
Std Dev 0
pull1D
Entries 88
Mean −0.008509
Std Dev 0.8836

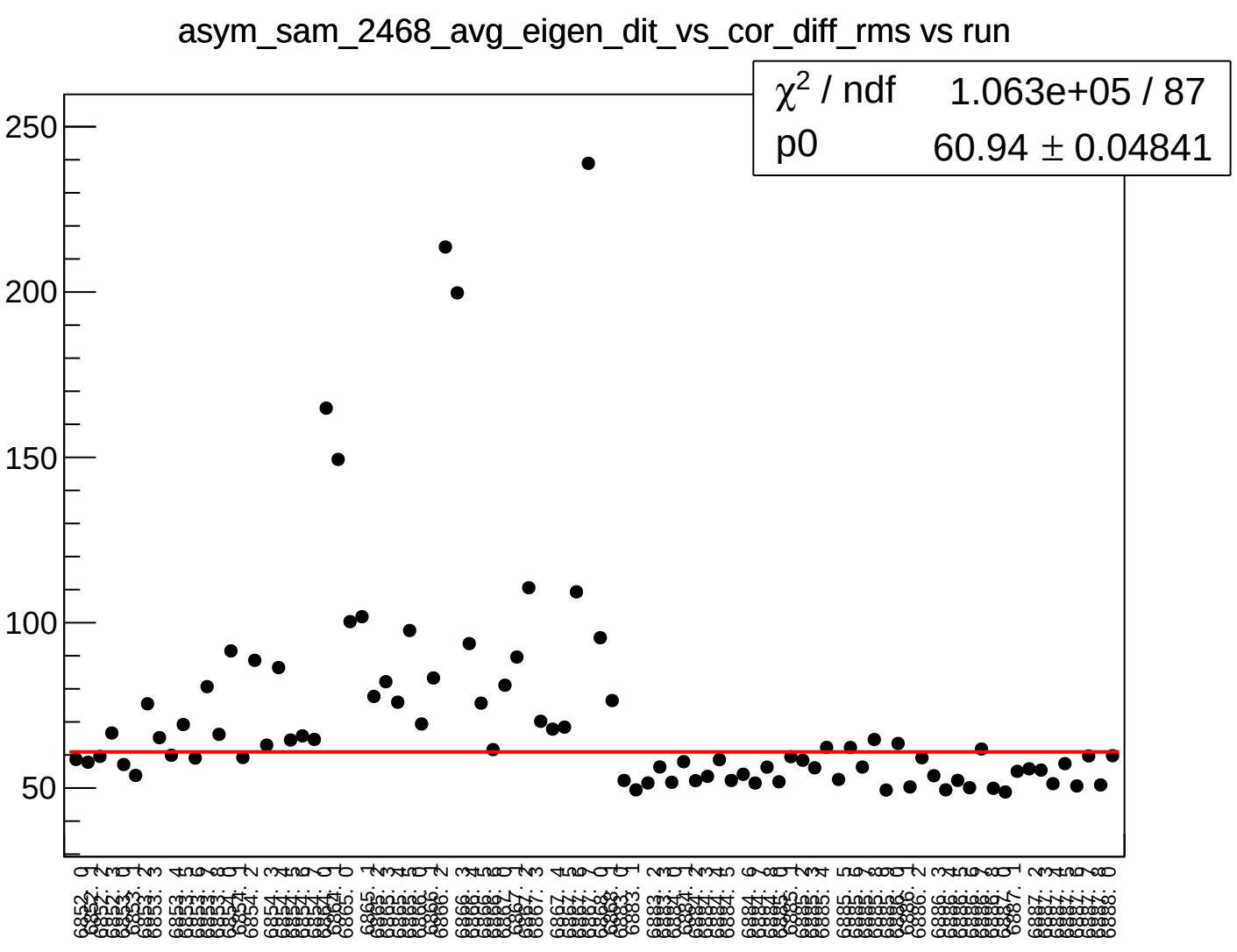

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.063e+05 / 87
p0 60.93 ± 0.04841
250
200
150
100
50

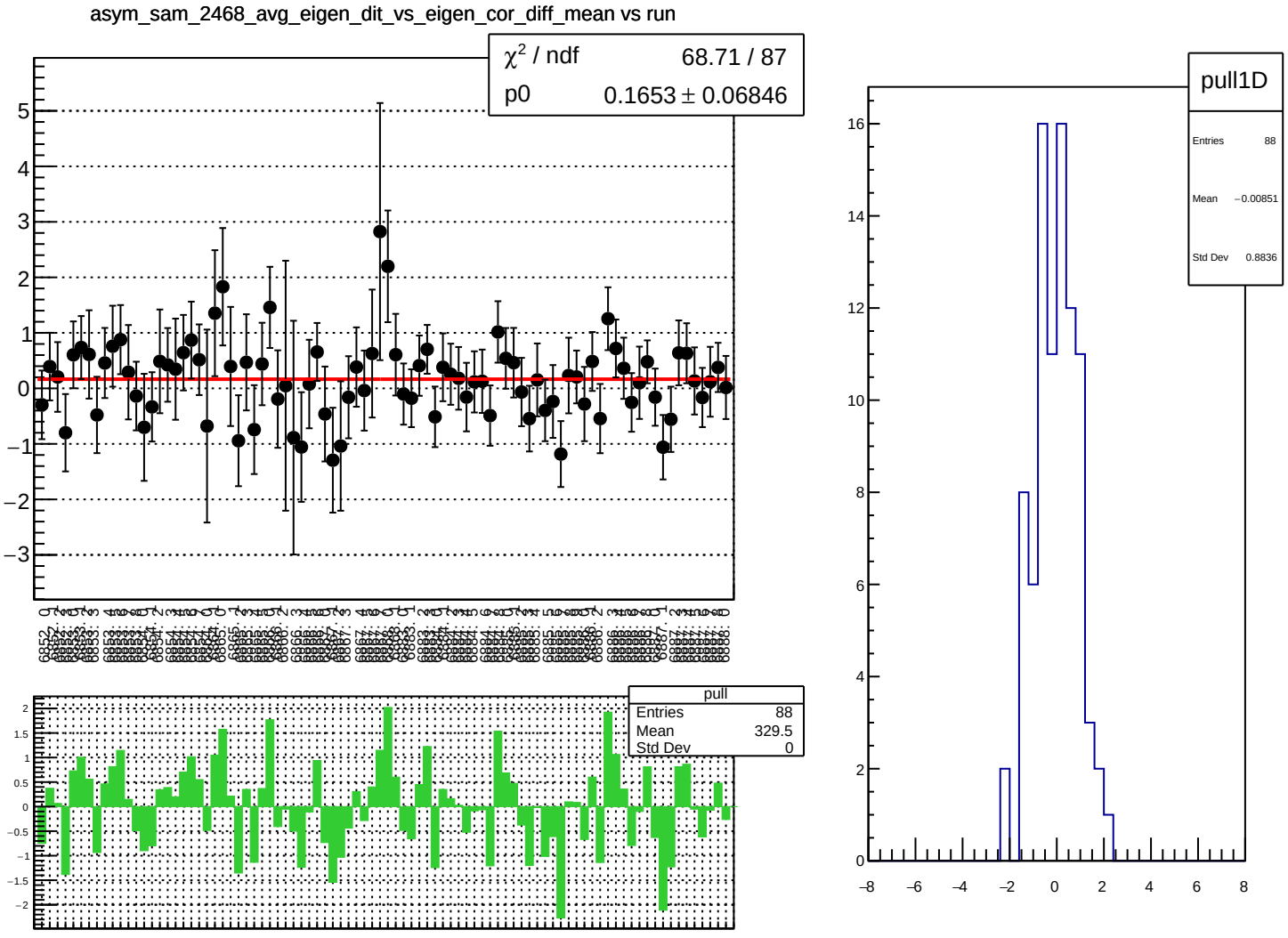

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.52 / 87
p0 4.755e−06 ± 2.435e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 88
Mean 12.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.02533
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

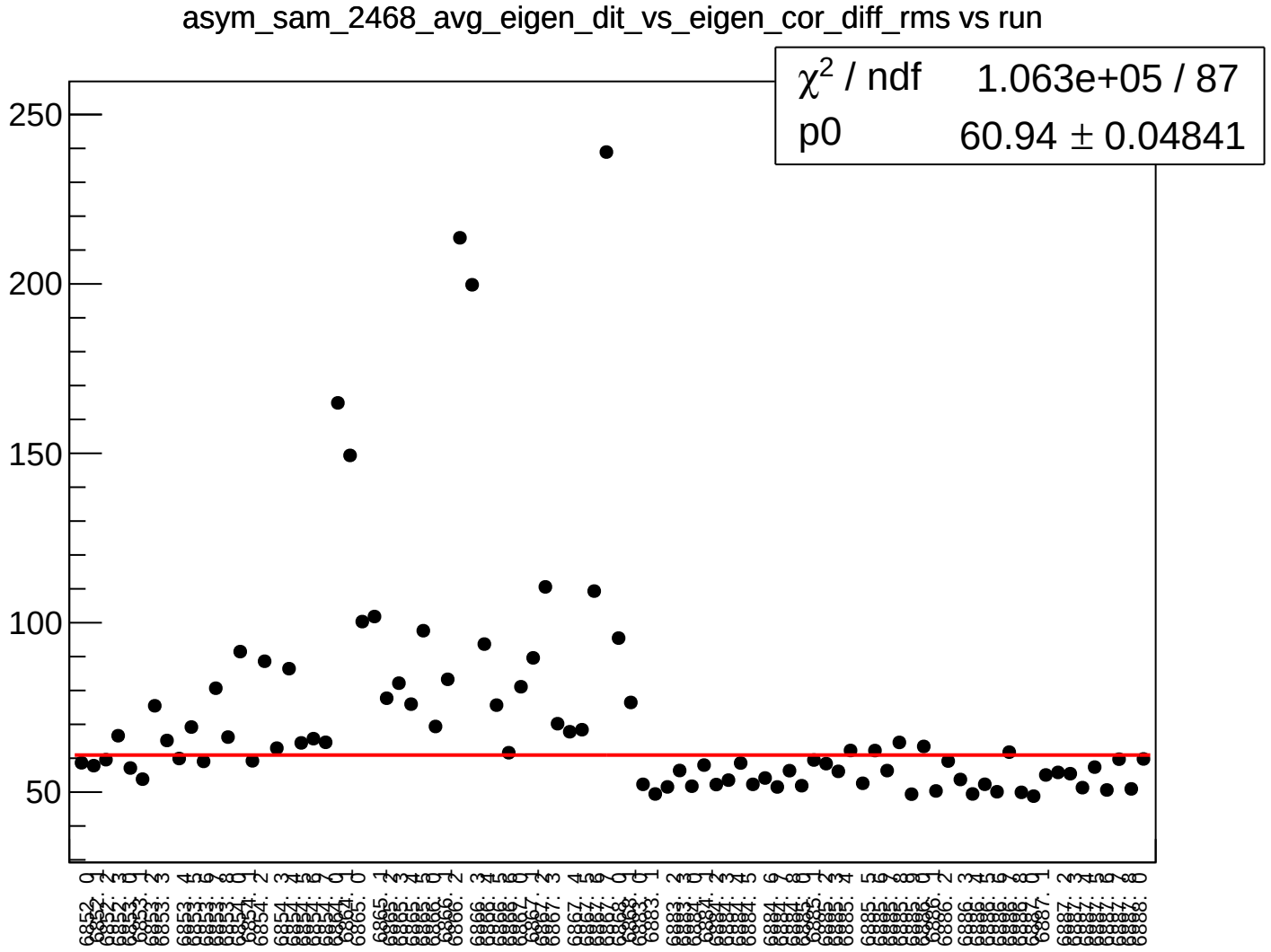

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.736e+05 / 87
p0 0.00205 ± 1.722e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

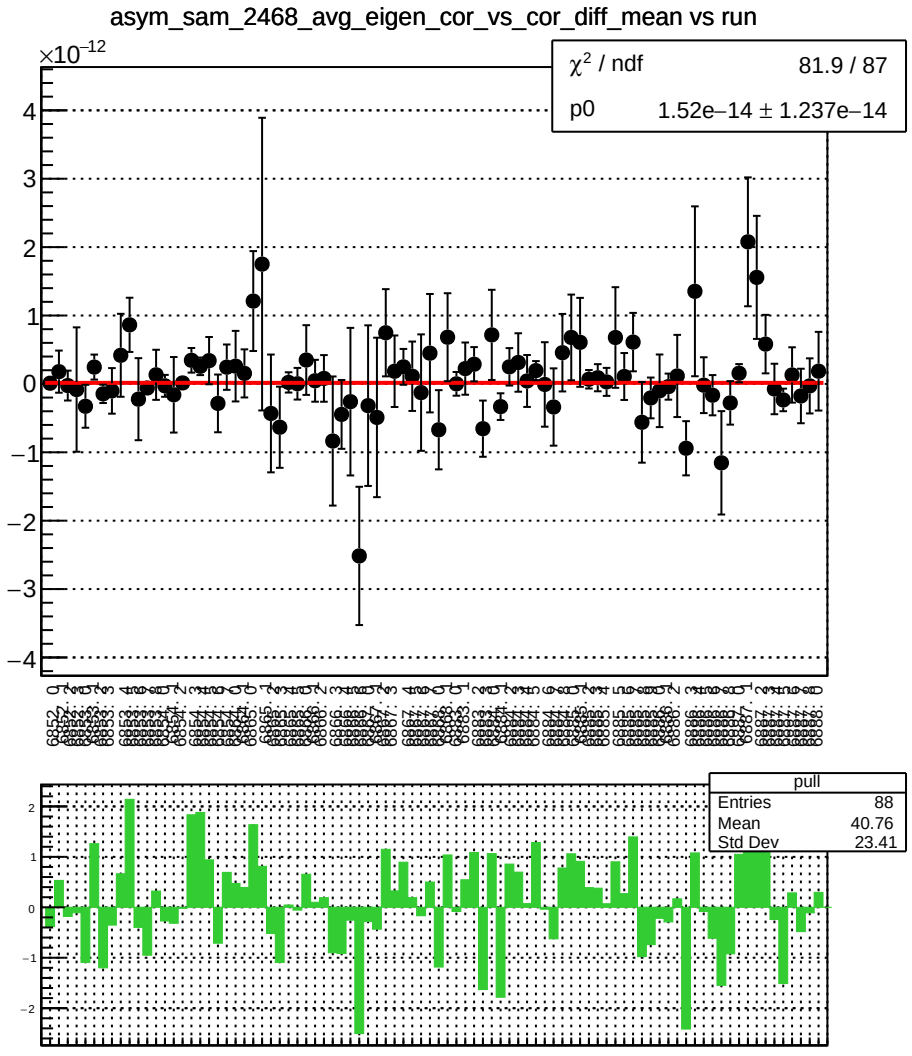

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.71 / 87
p0 0.1653 ± 0.06846
pull
Entries 88
Mean 329.5
Std Dev 0

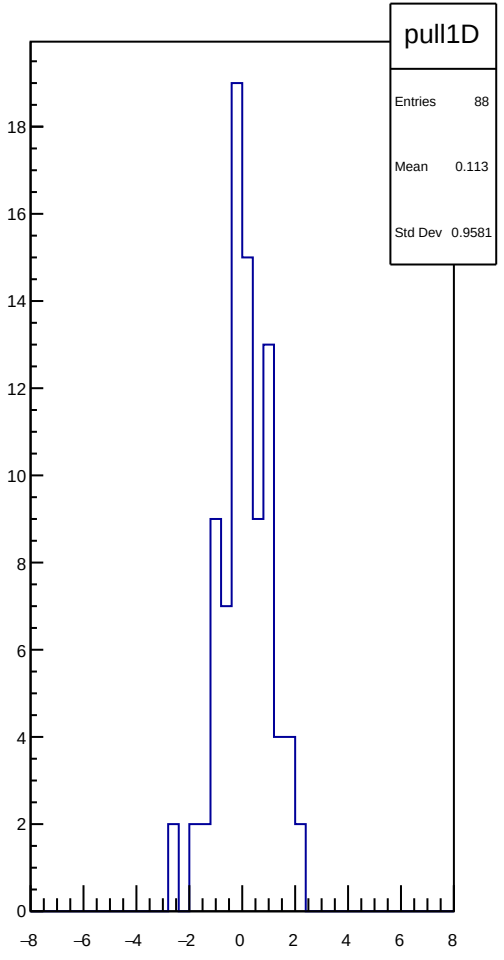

pull1D
Entries 88
Mean −0.00851
Std Dev 0.8836

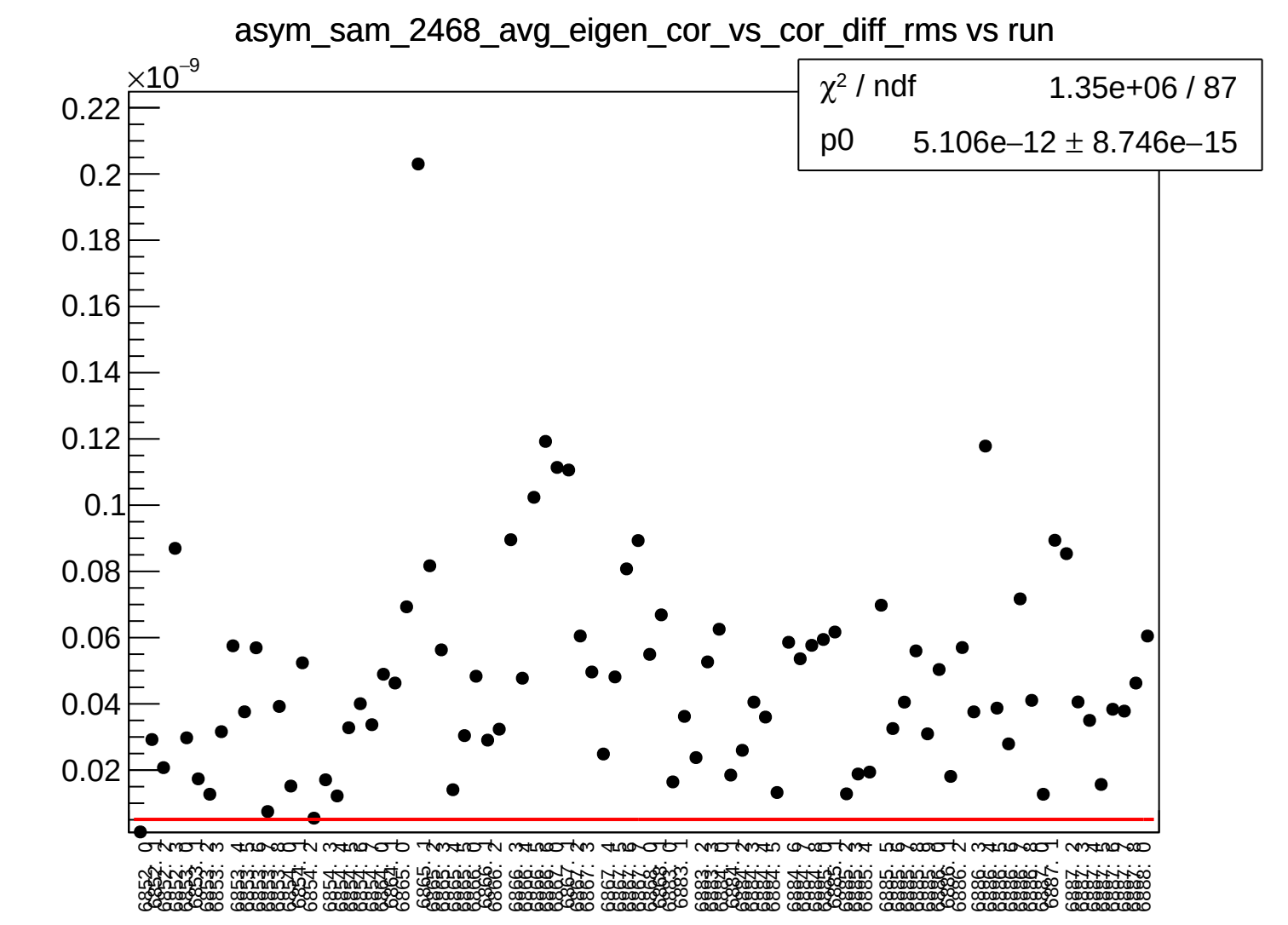

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.063e+05 / 87
p0 60.94 ± 0.04841
250
200
150
100
50

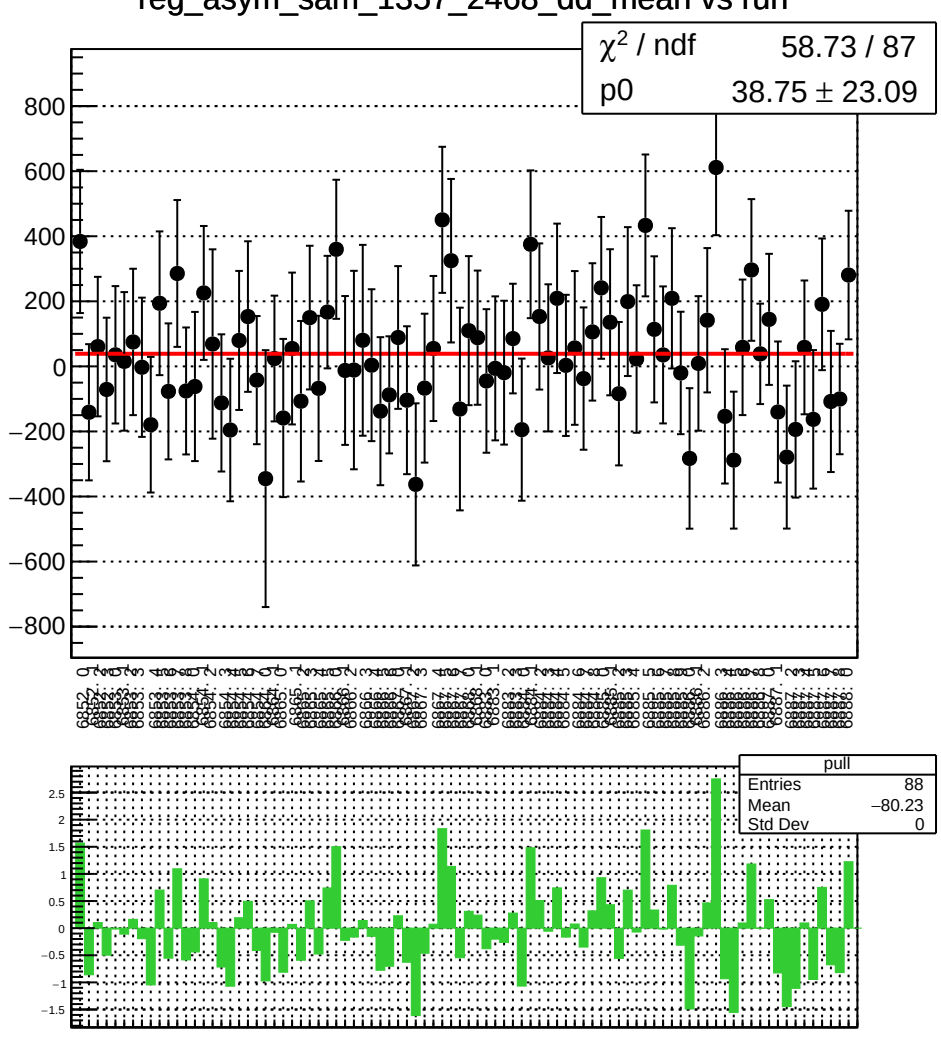

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.71 / 87
p0 0.1653 ± 0.06846
pull
Entries 88
Mean 329.5
Std Dev 0
pull1D
Entries 88
Mean −0.00851
Std Dev 0.8836

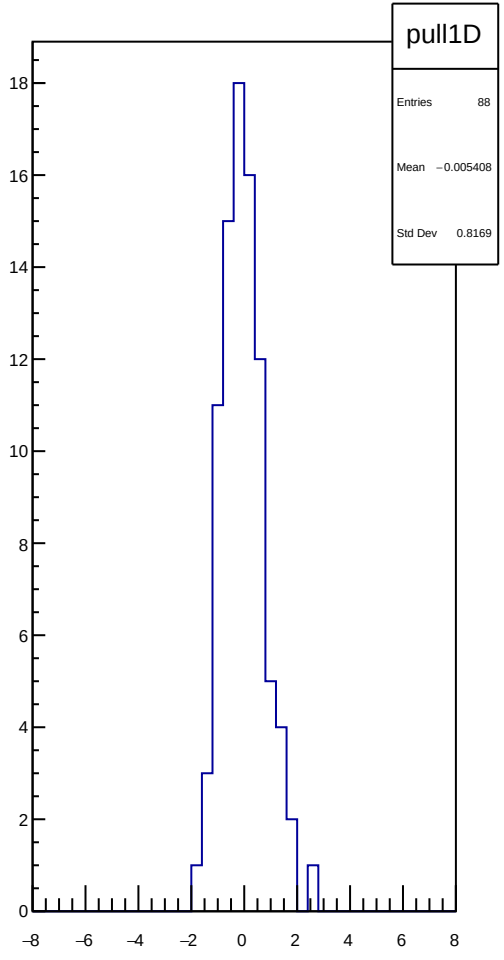

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.063e+05 / 87
p0 60.94 ± 0.04841
250
200
150
100
50

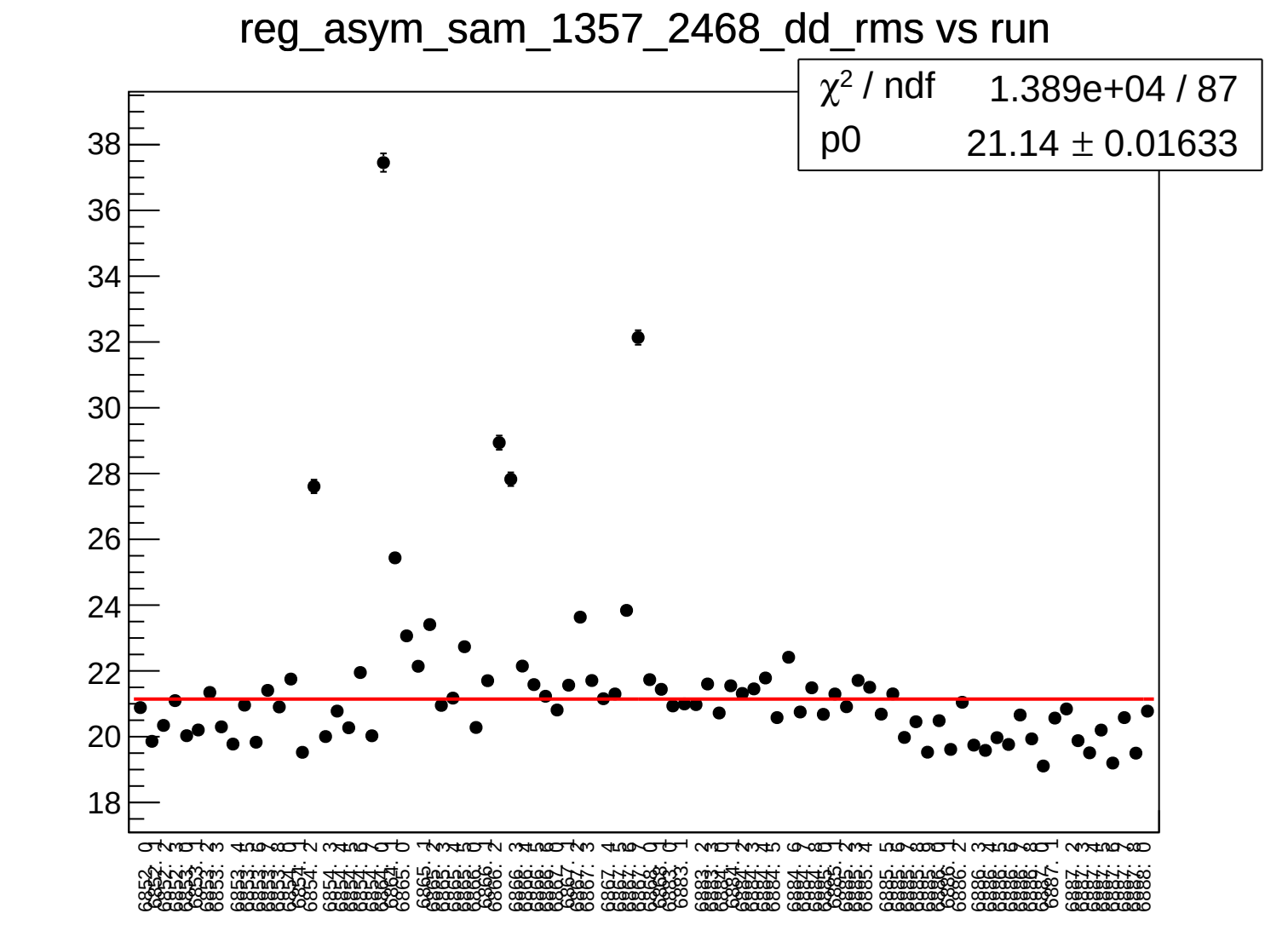

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.9 / 87
p0 1.52e−14 ± 1.237e−14
pull
Entries 88
Mean 40.76
Std Dev 23.41

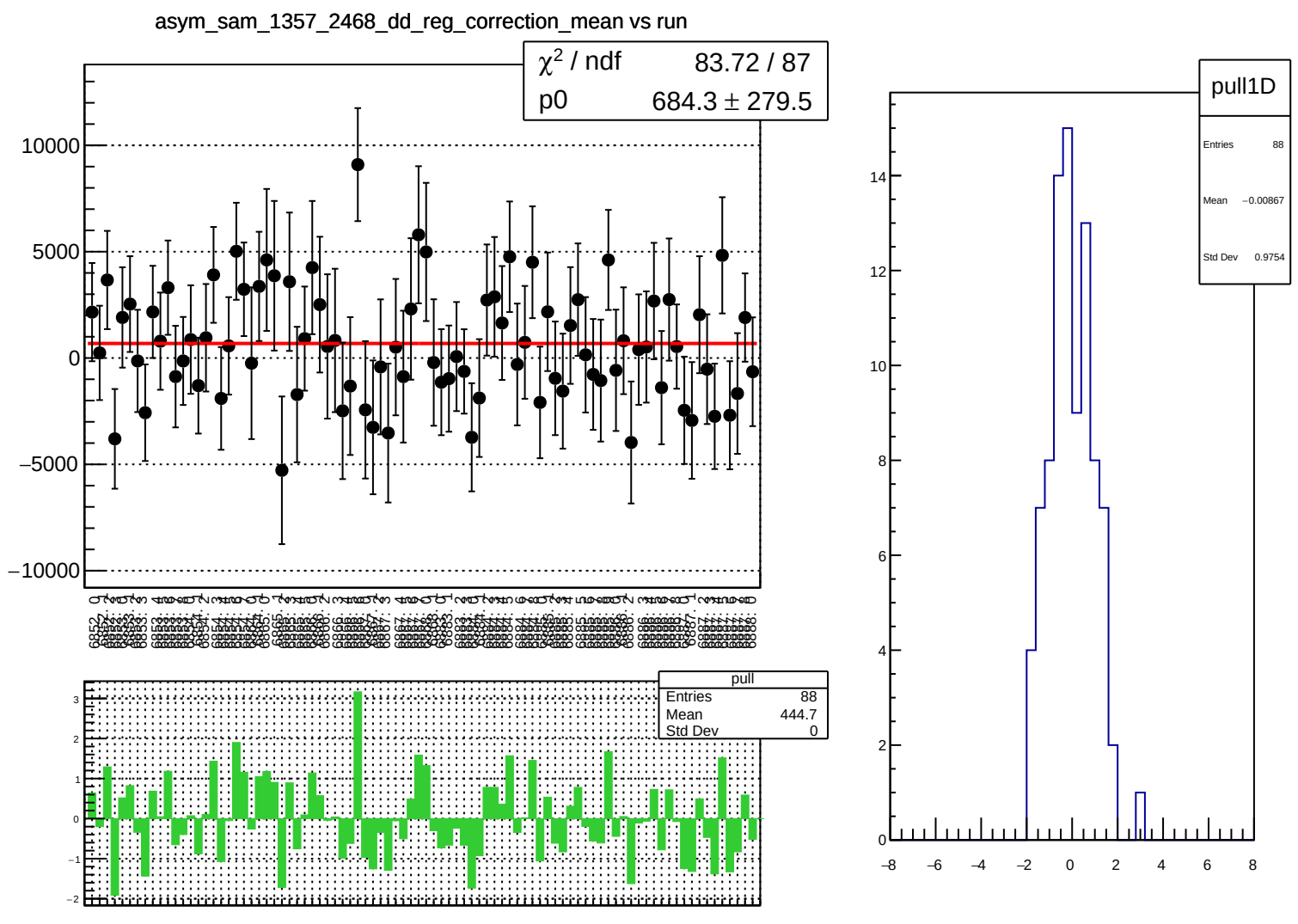

pull1D
Entries 88
Mean 0.113
Std Dev 0.9581

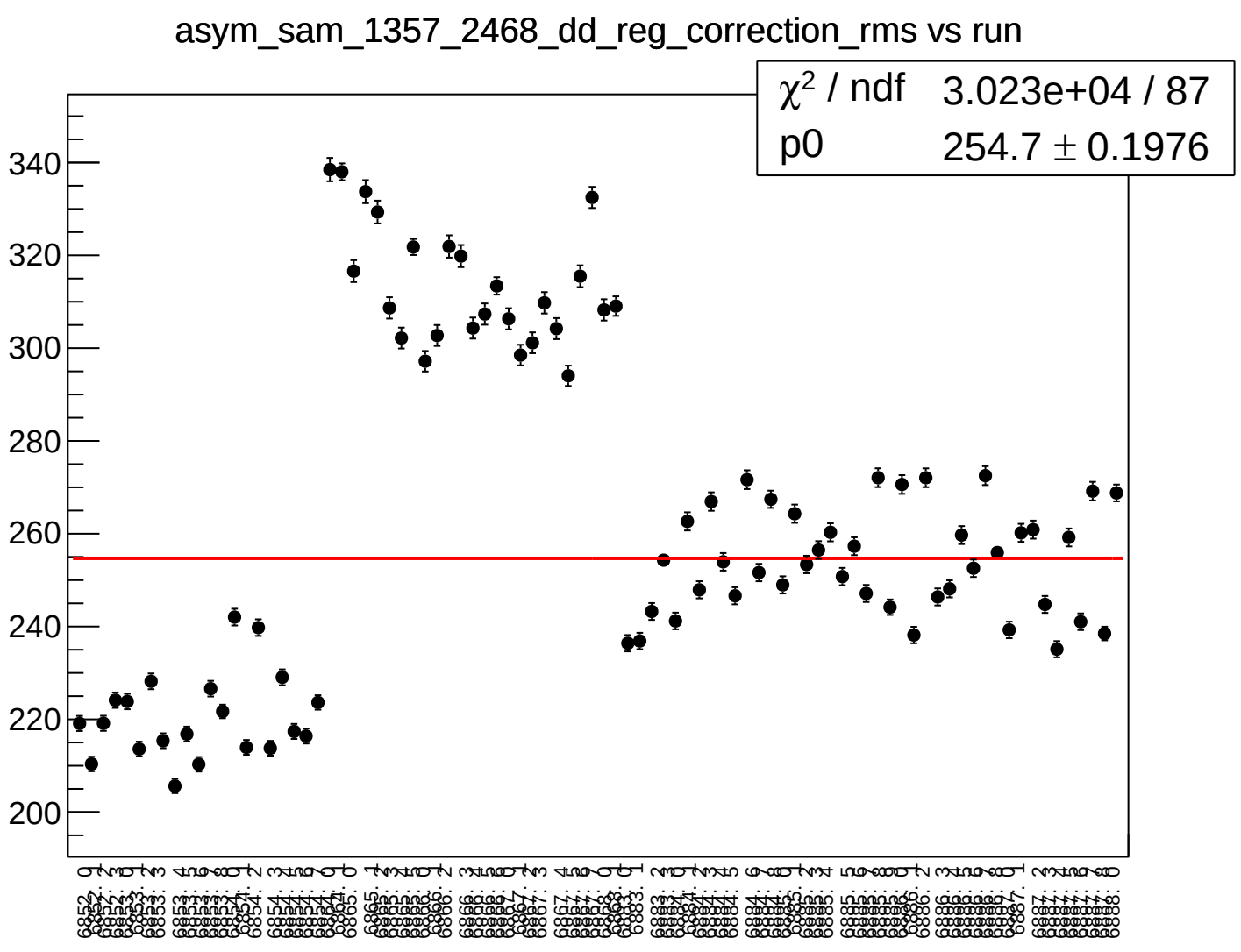

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.35e+06 / 87
p0 5.106e−12 ± 8.746e−15
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

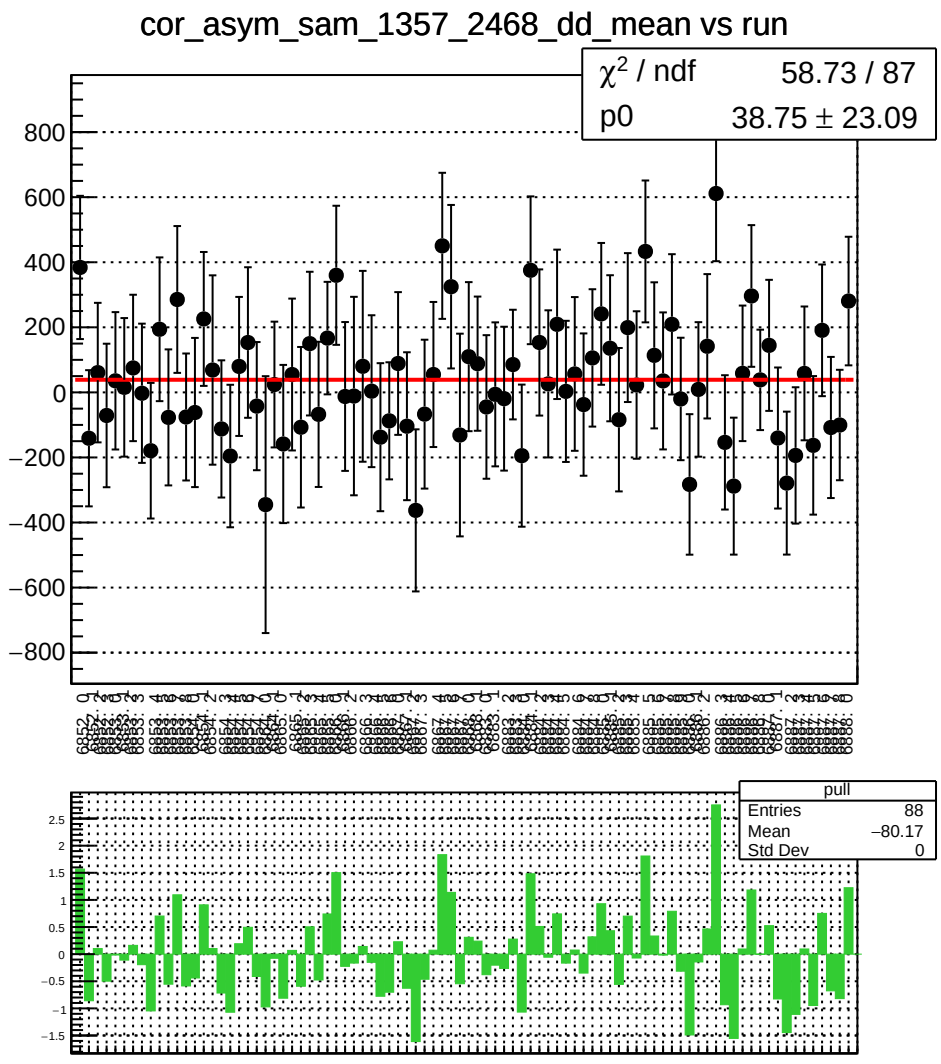

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 58.73 / 87
p0 38.75 ± 23.09
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 88
Mean −80.23
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

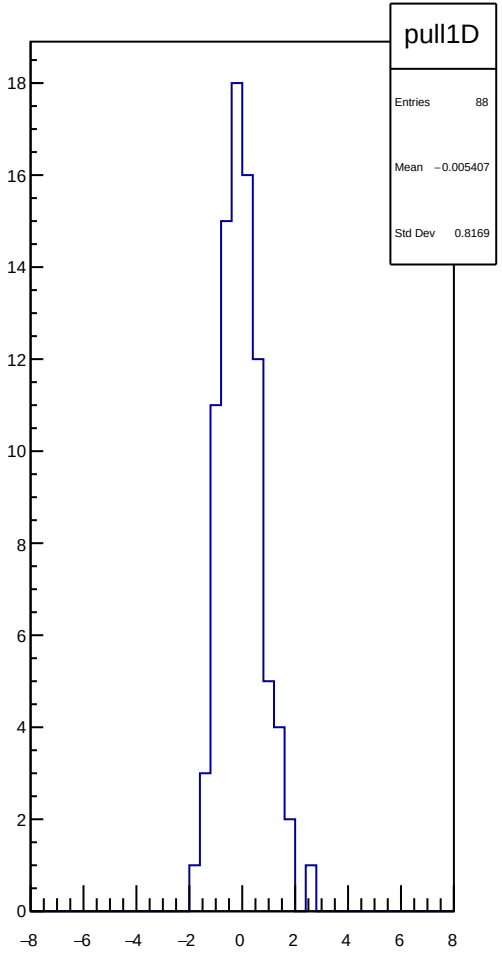

pull1D
Entries 88
Mean −0.005408
Std Dev 0.8169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

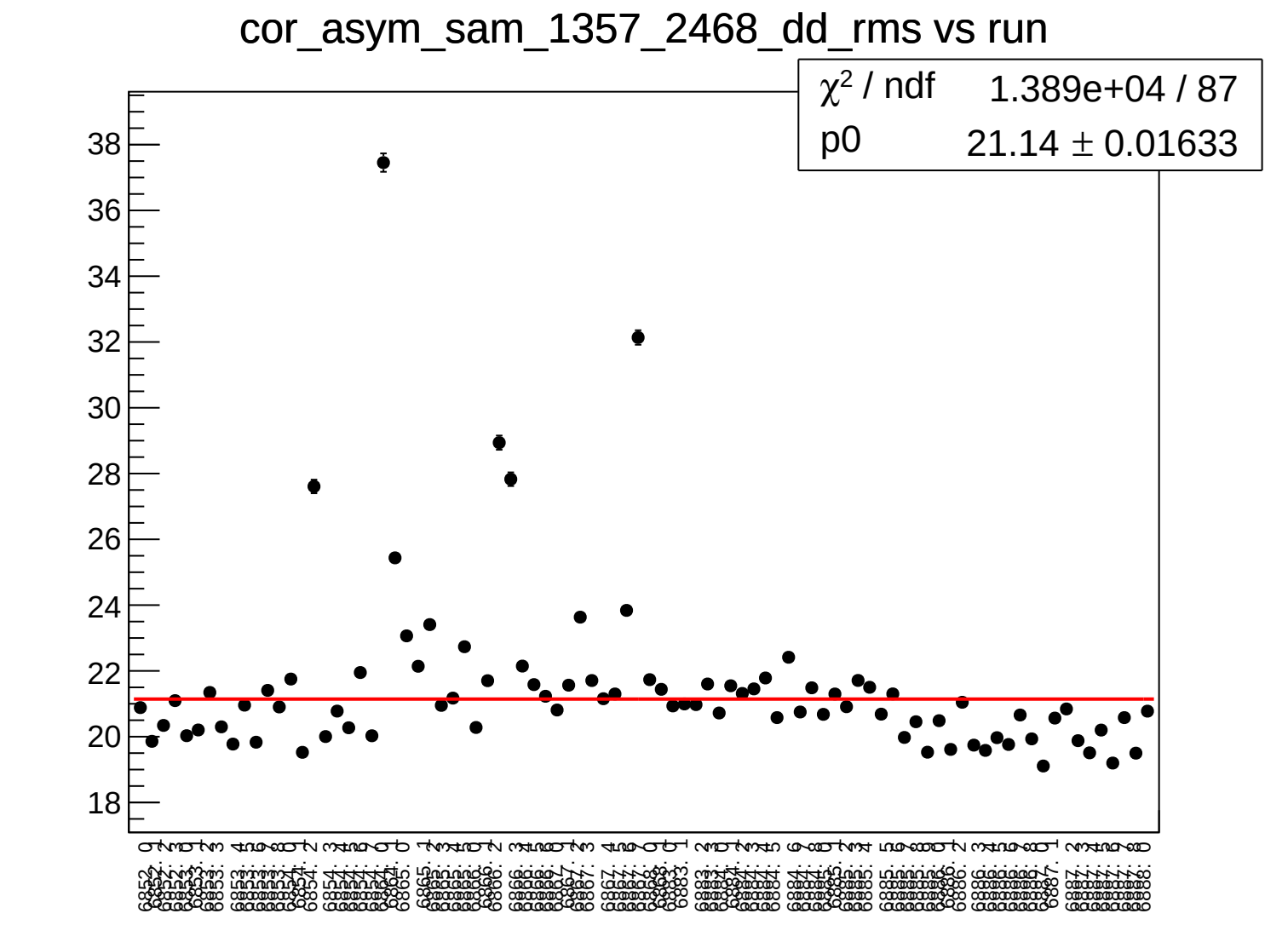

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.389e+04 / 87
p0 21.14 ± 0.01633
38
36
34
32
30
28
26
24
22
20
18

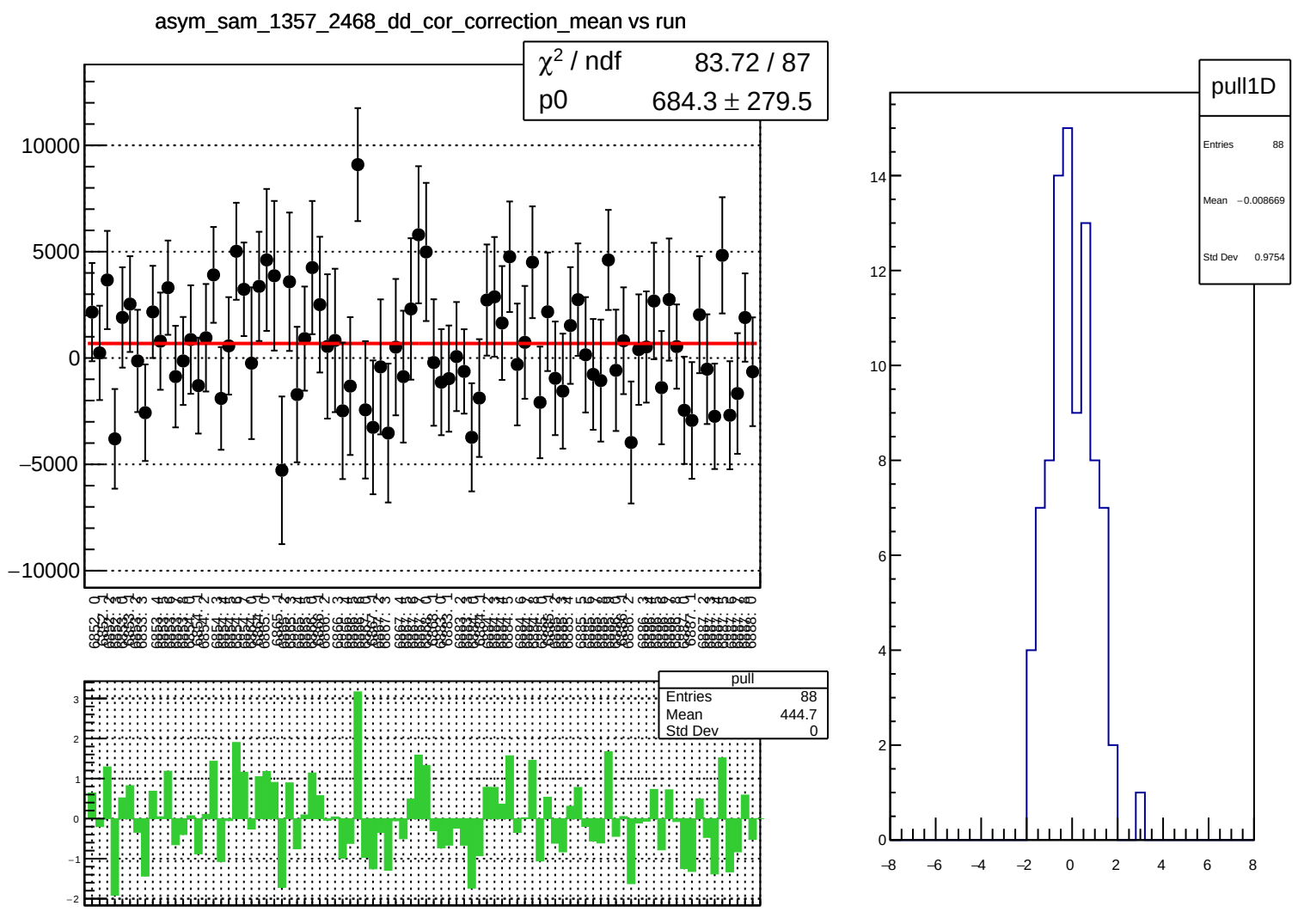

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 83.72 / 87
p0 684.3 ± 279.5
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 444.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.00867
Std Dev 0.9754
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

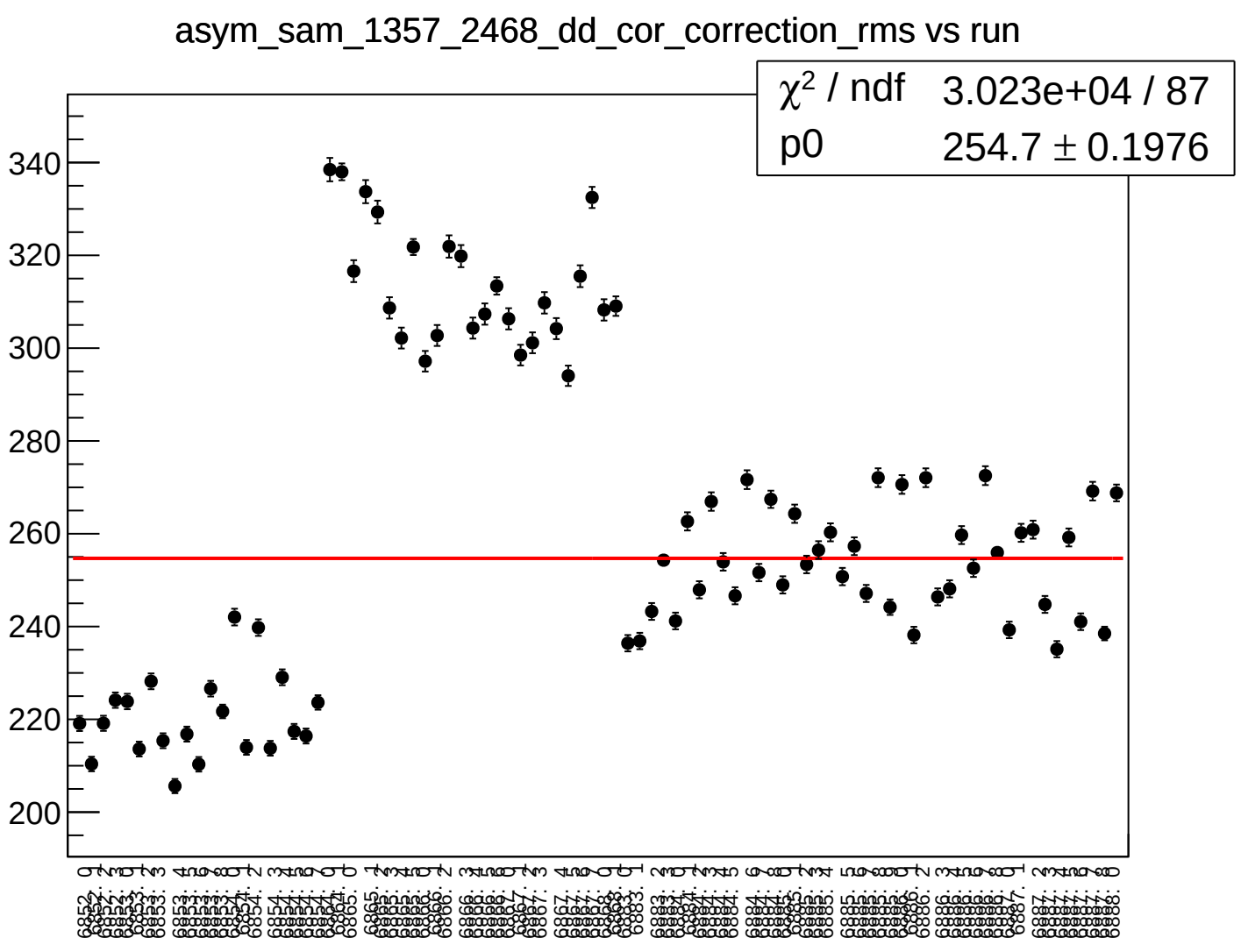

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 3.023e+04 / 87
p0 254.7 ± 0.1976
340
320
300
280
260
240
220
200

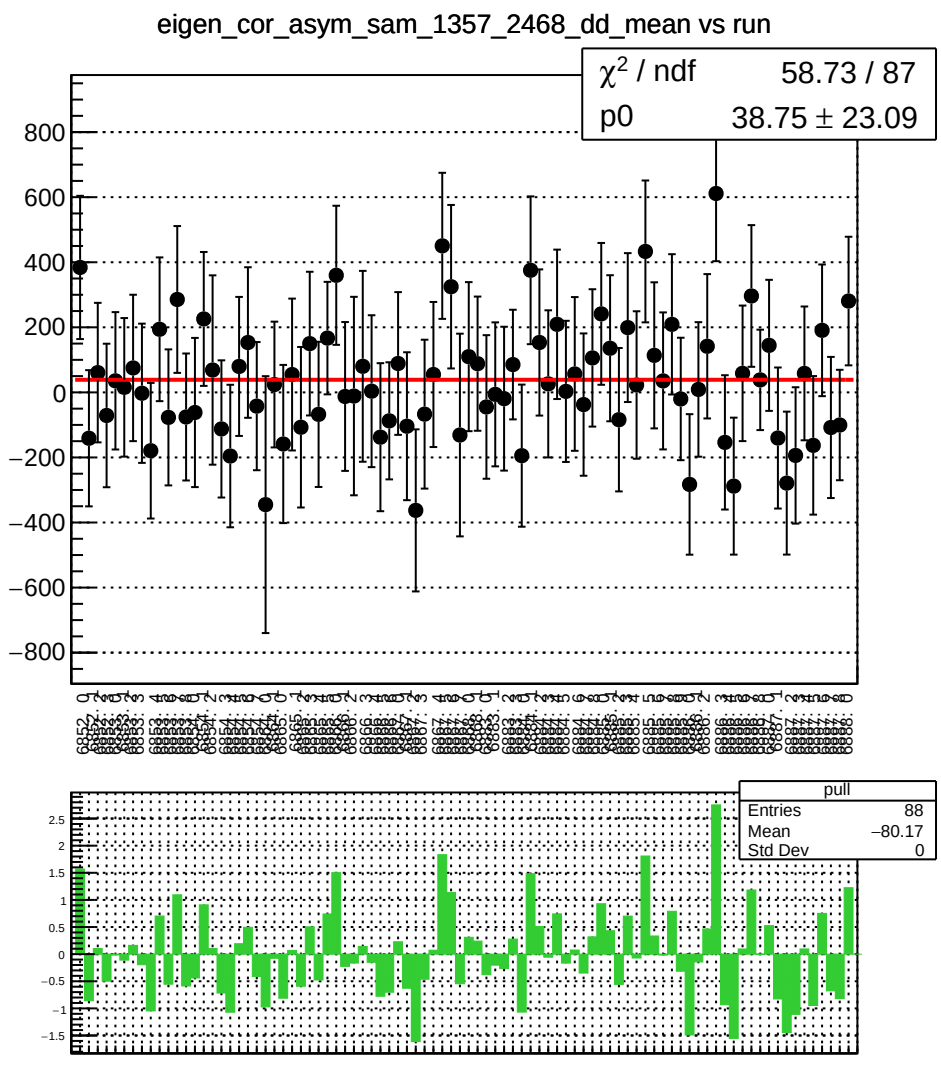

cor_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 58.73 / 87
p0 38.75 ± 23.09
pull
Entries 88
Mean −80.17
Std Dev 0

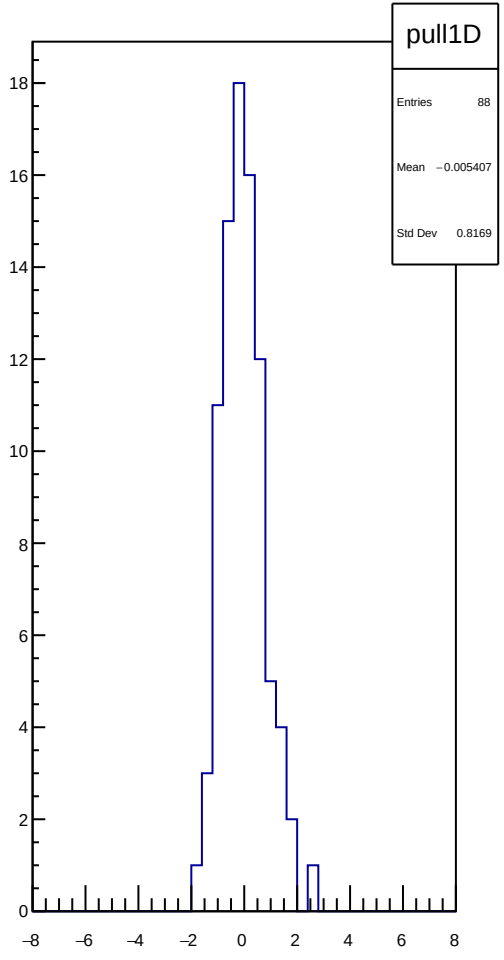

pull1D
Entries 88
Mean −0.005407
Std Dev 0.8169

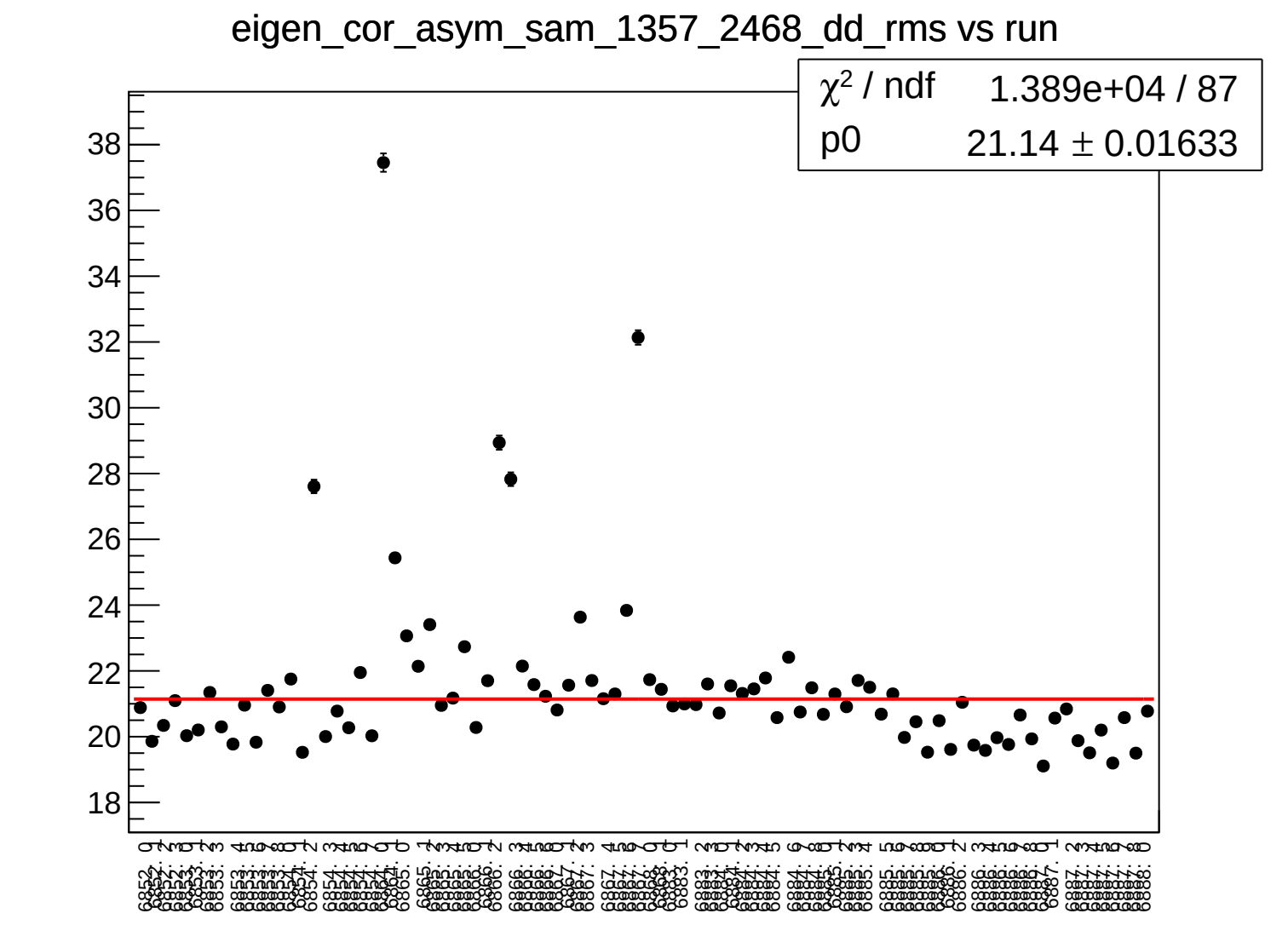

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.389e+04 / 87
p0 21.14 ± 0.01633
38
36
34
32
30
28
26
24
22
20
18

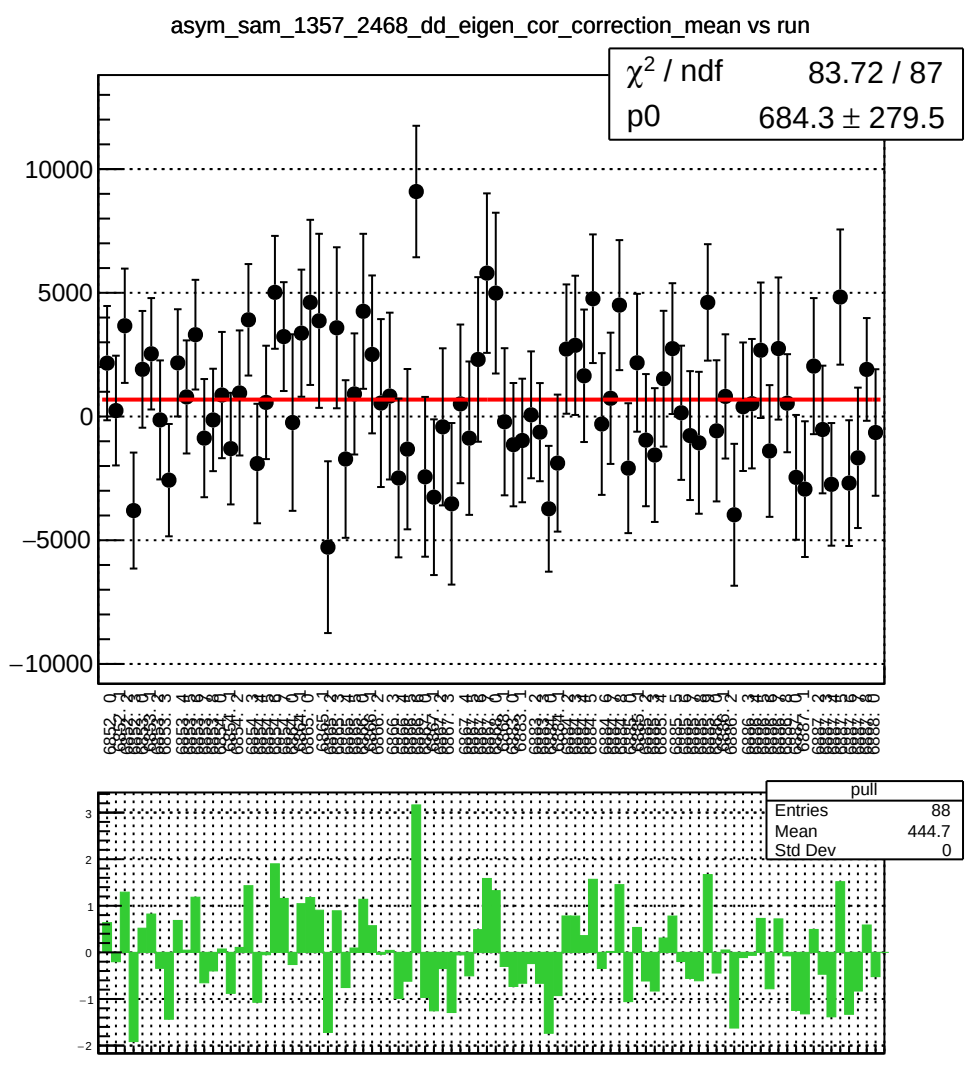

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 83.72 / 87
p0 684.3 ± 279.5
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 444.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.008669
Std Dev 0.9754
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

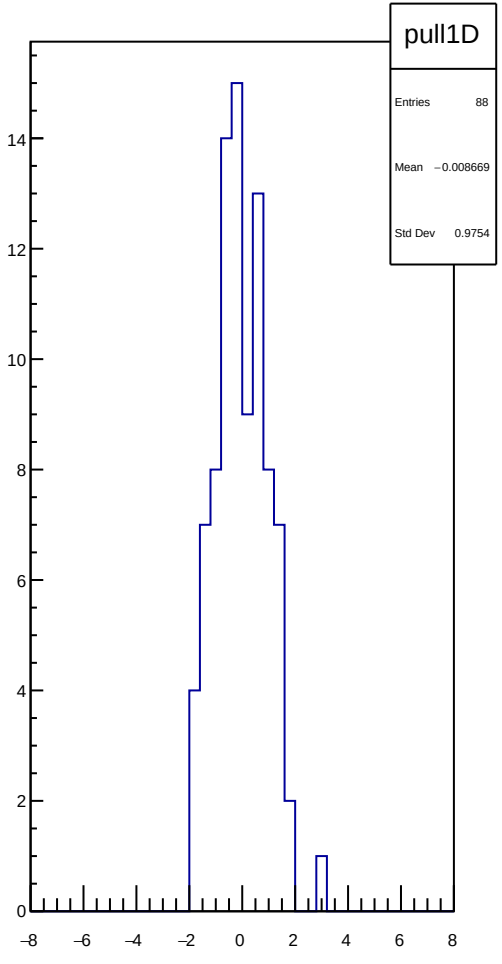

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 3.023e+04 / 87
p0 254.7 ± 0.1976
340
320
300
280
260
240
220
200

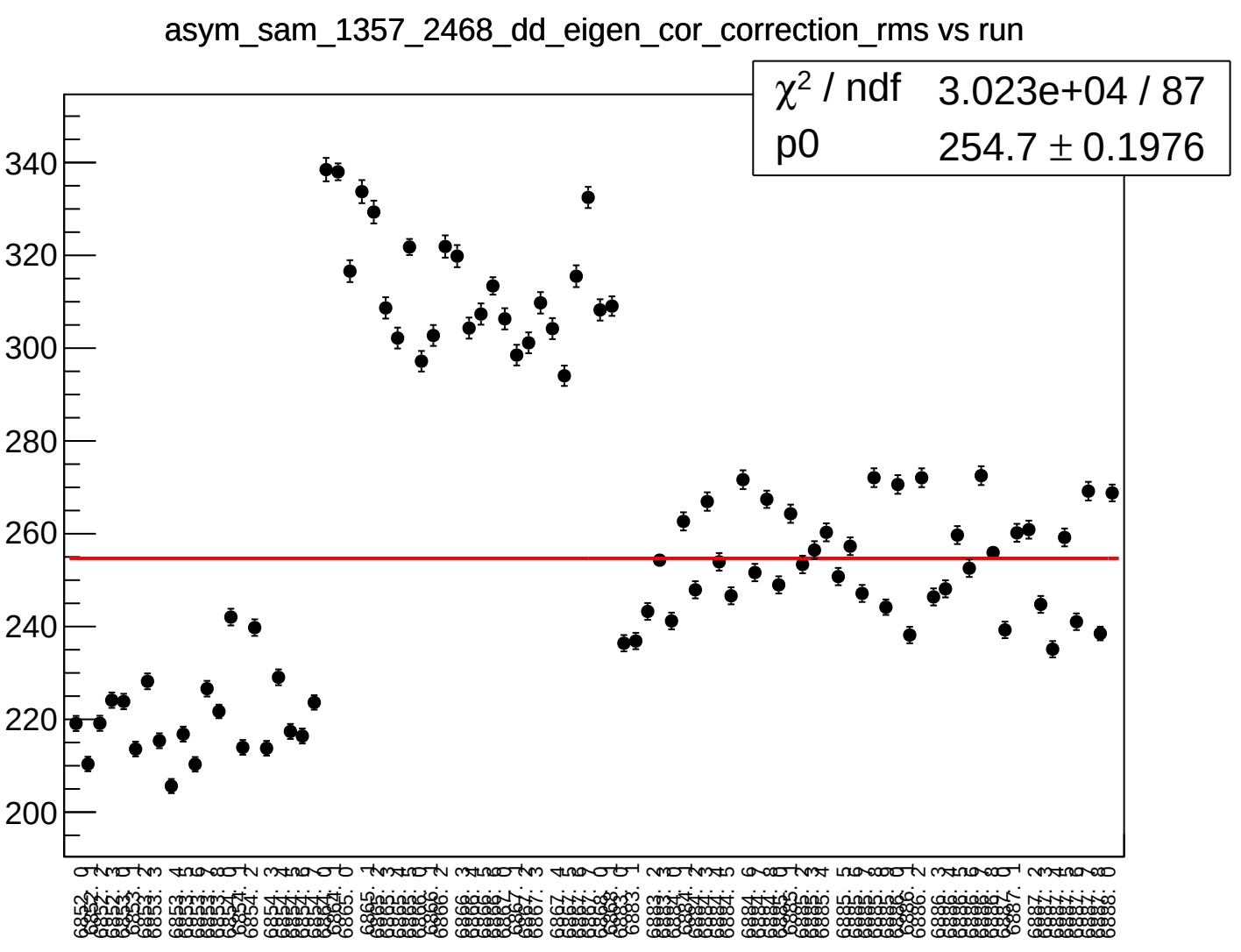

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 58.73 / 87
p0 38.75 ± 23.09
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 88
Mean −80.17
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

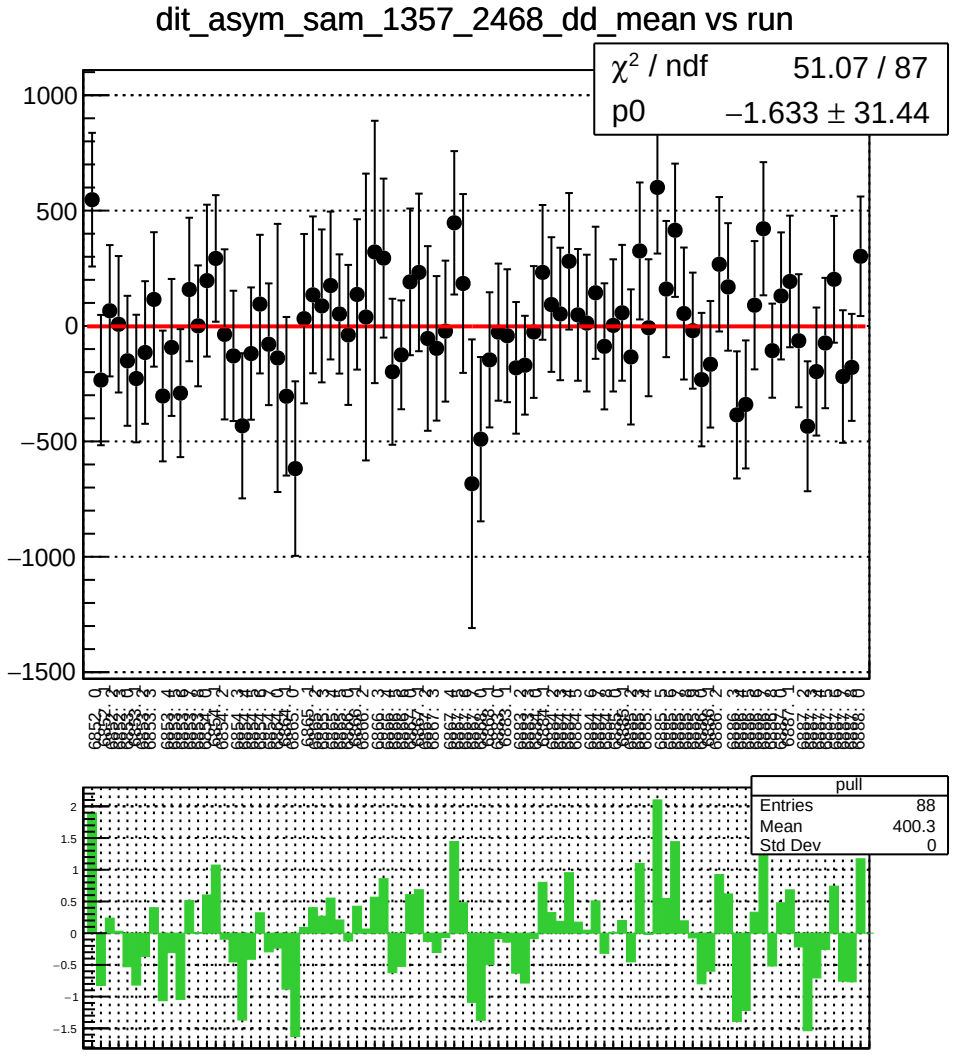

pull1D
Entries 88
Mean −0.005407
Std Dev 0.8169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

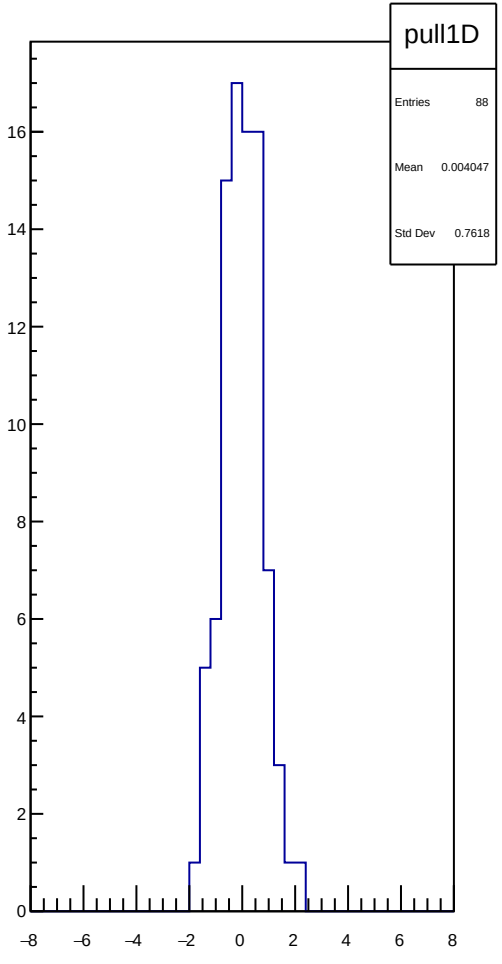

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.389e+04 / 87
p0 21.14 ± 0.01633
38
36
34
32
30
28
26
24
22
20
18

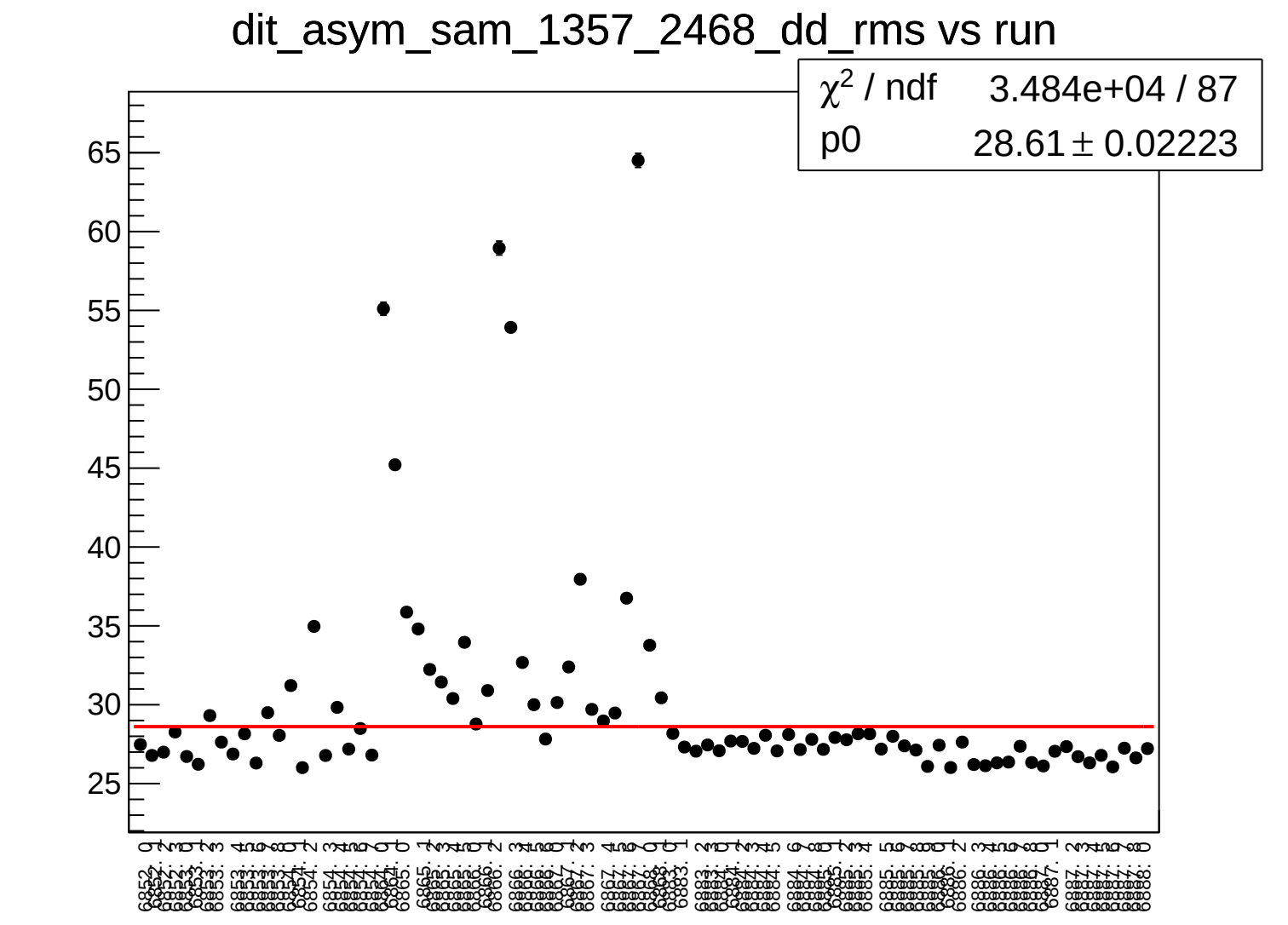

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.72 / 87
p0 684.3 ± 279.5
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 444.7
Std Dev 0
3
2
1
0
−1
−2

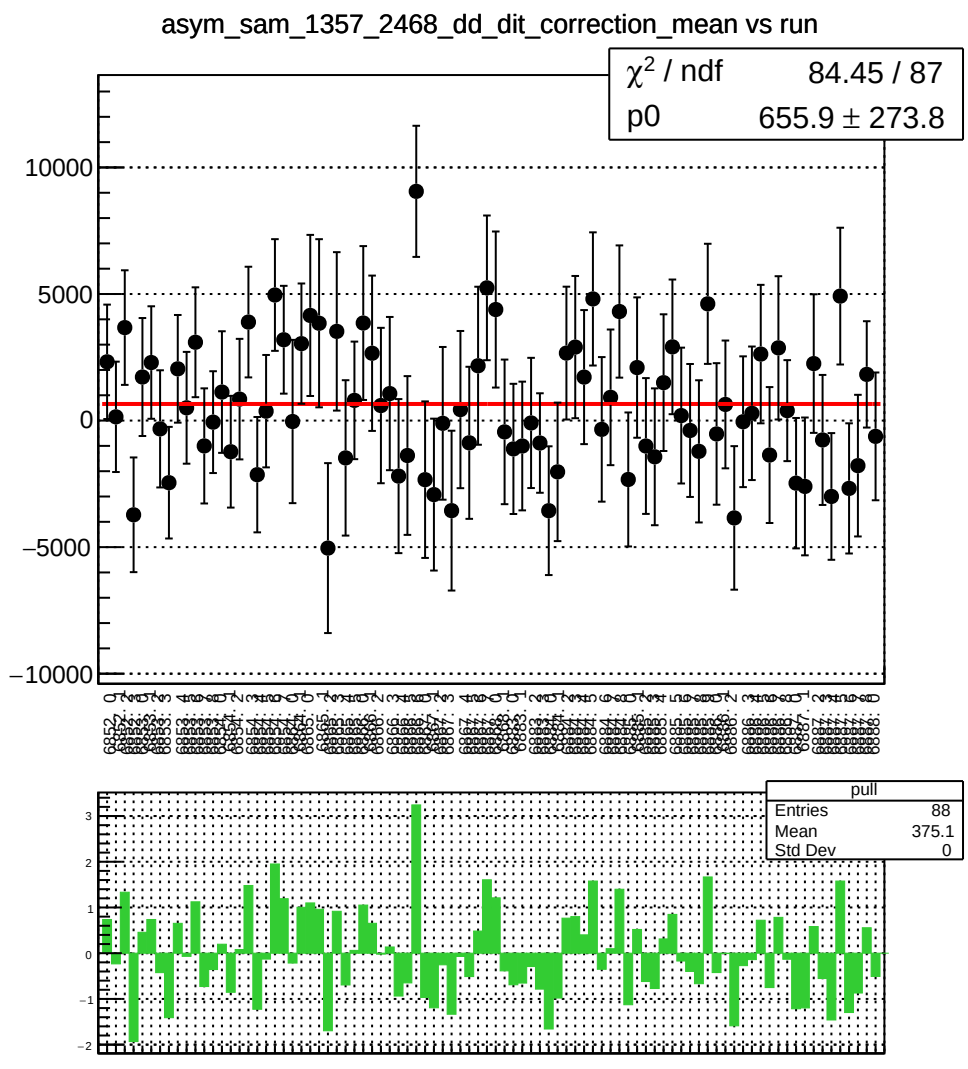

pull1D
Entries 88
Mean −0.008669
Std Dev 0.9754
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

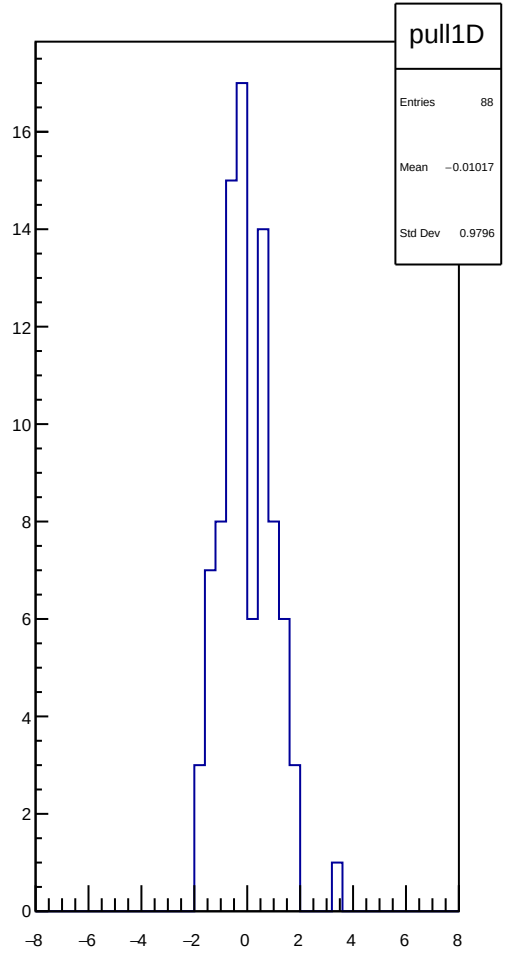

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.023e+04 / 87
p0 254.7 ± 0.1976
340
320
300
280
260
240
220
200

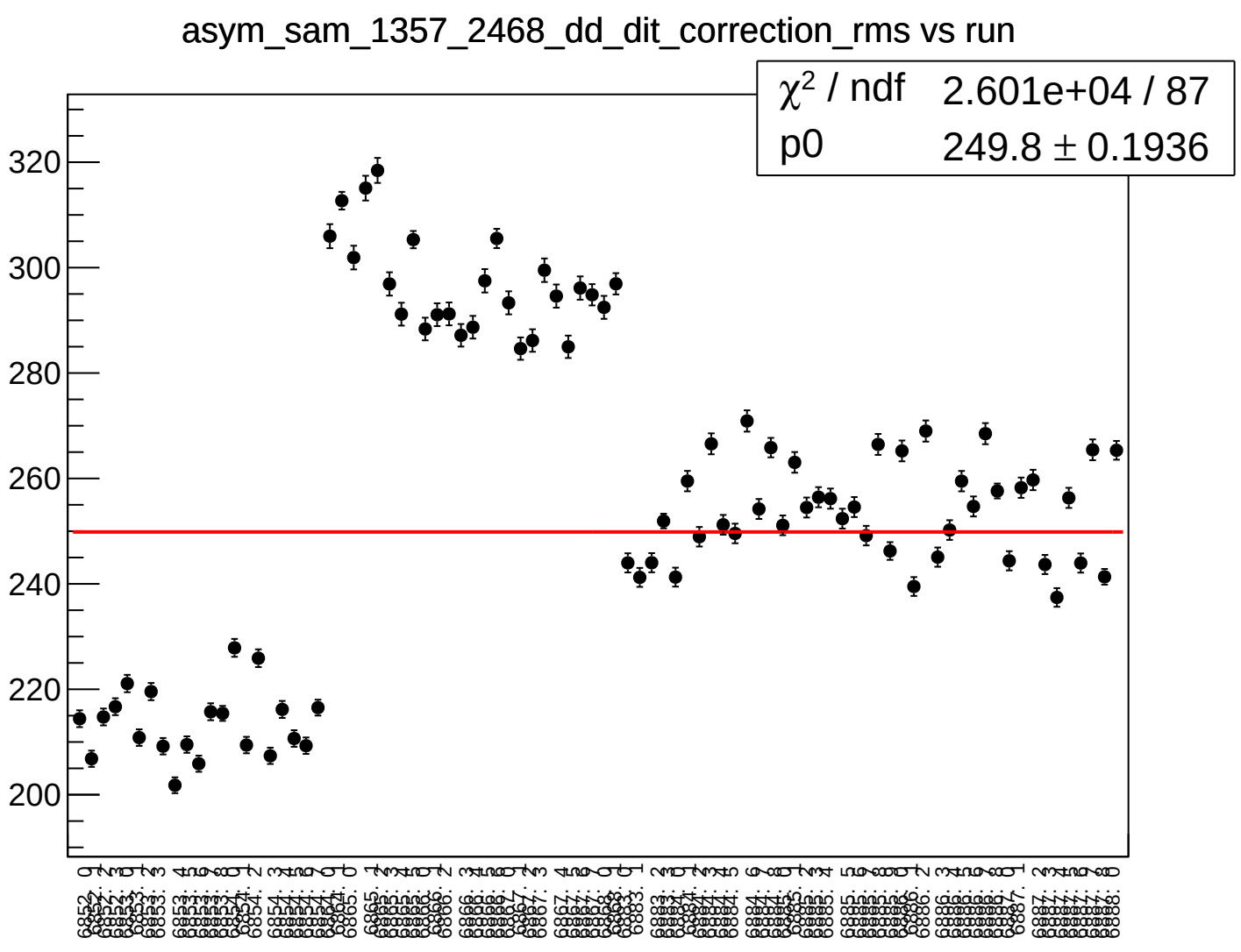

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 51.07 / 87
p0 −1.633 ± 31.44
pull
Entries 88
Mean 400.3
Std Dev 0

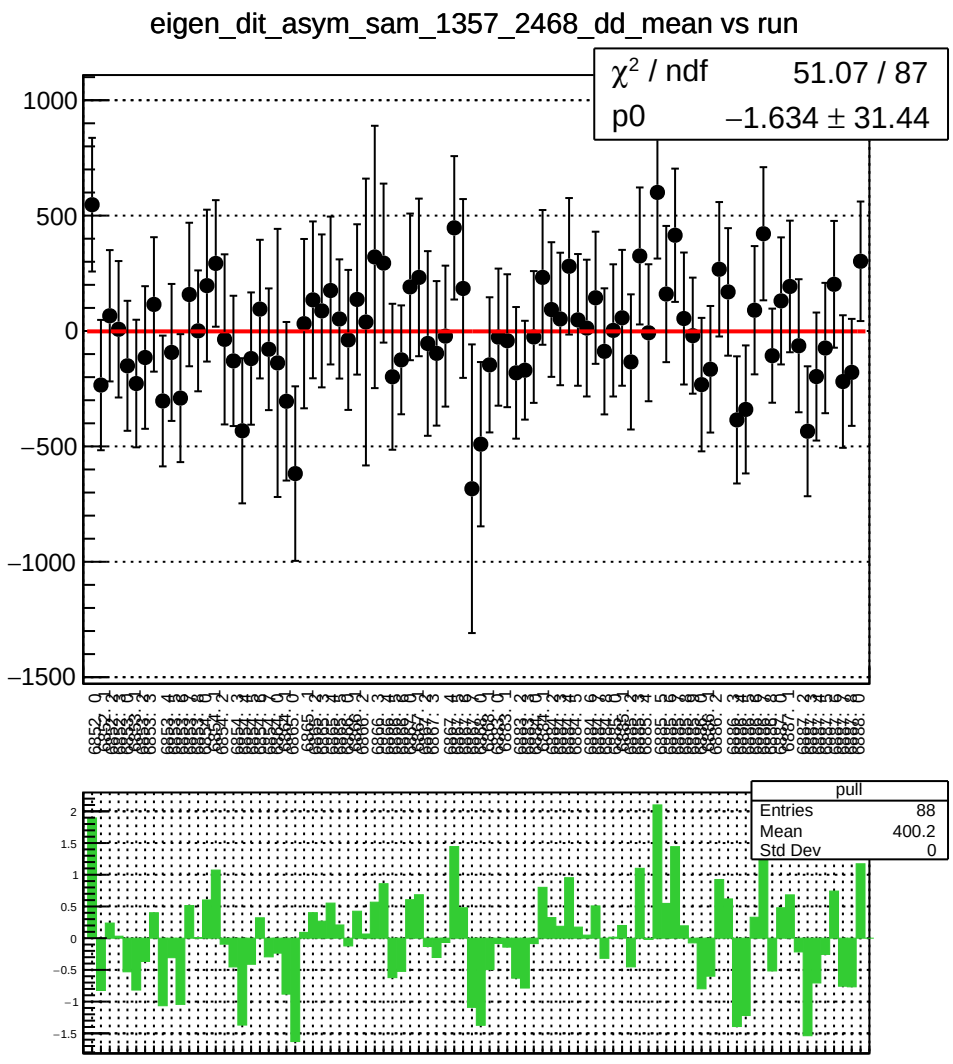

pull1D
Entries 88
Mean 0.004047
Std Dev 0.7618

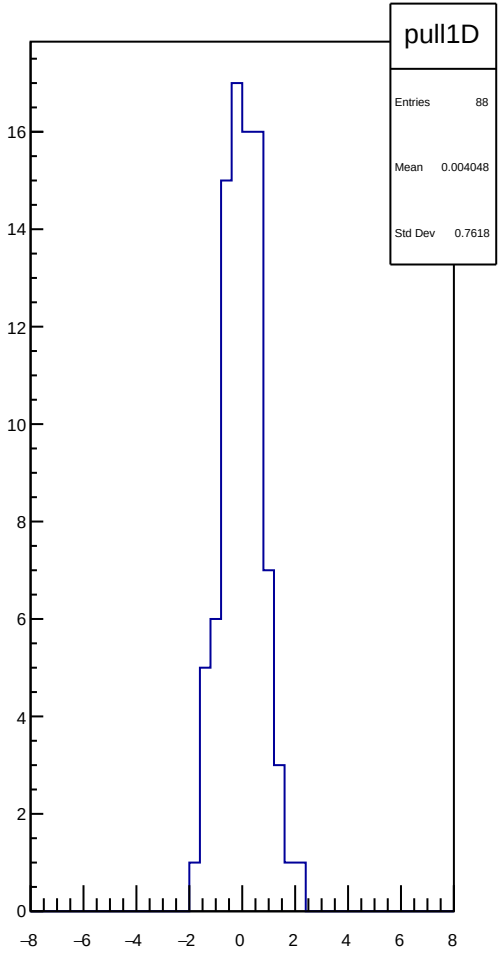

dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 3.484e+04 / 87
p0 28.61 ± 0.02223
65
60
55
50
45
40
35
30
25

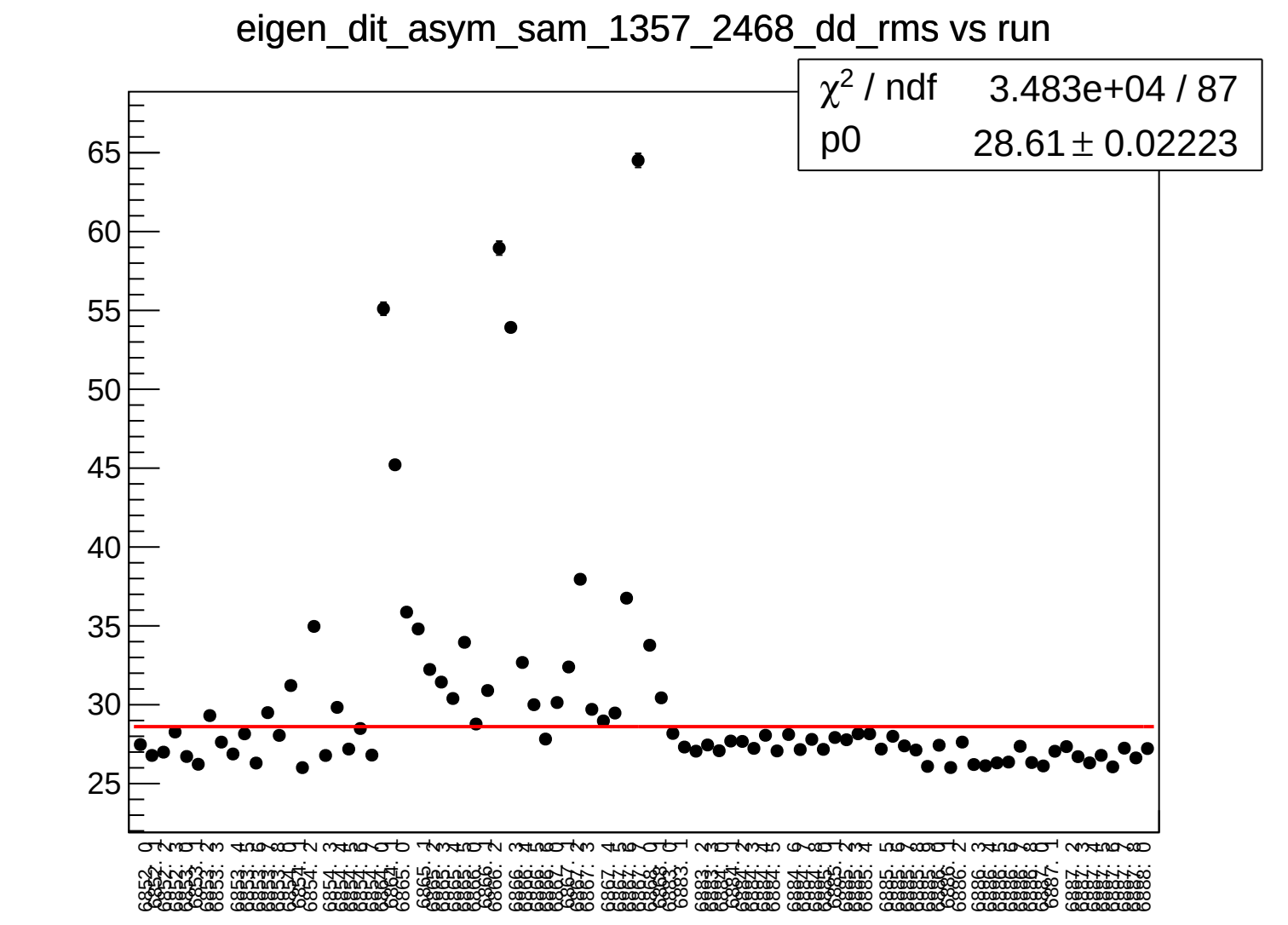

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 84.45 / 87
p0 655.9 ± 273.8
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 375.1
Std Dev 0
3
2
1
0
−1
−2

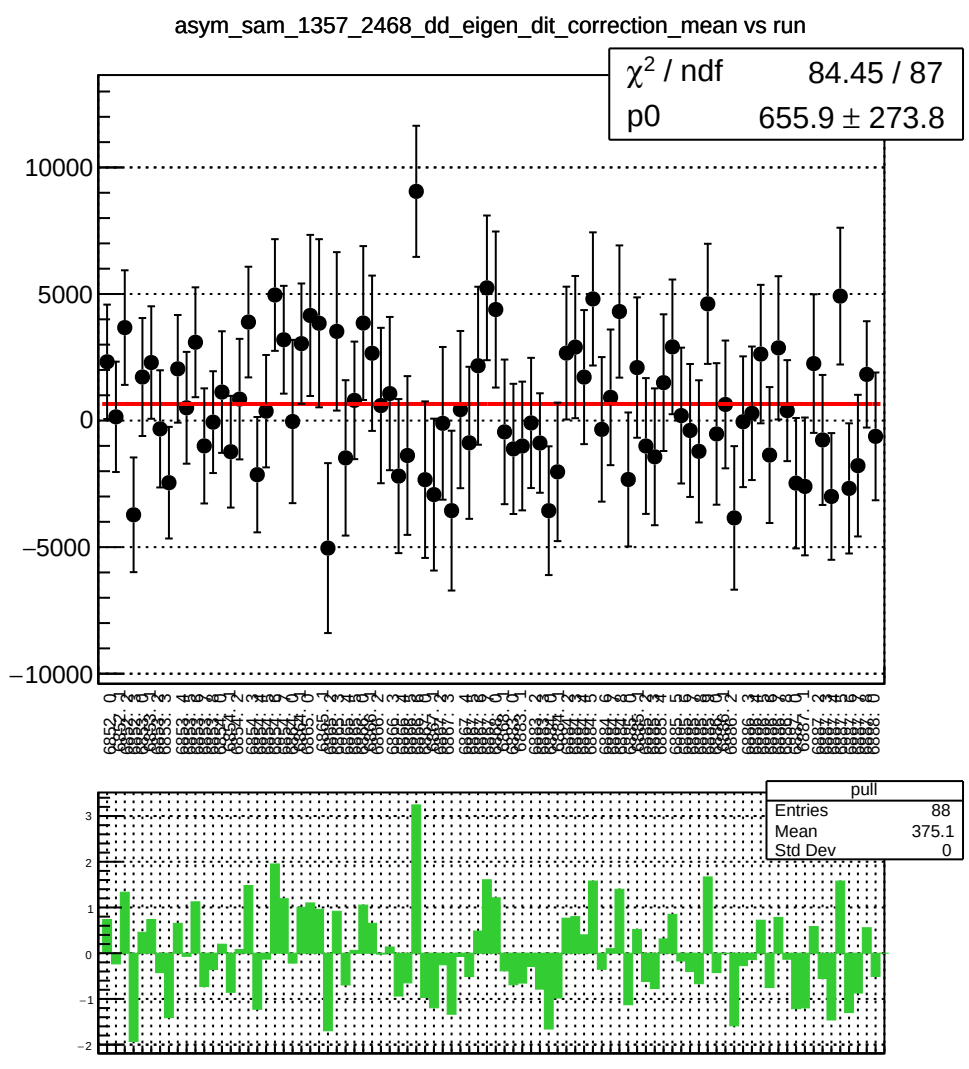

pull1D
Entries 88
Mean −0.01017
Std Dev 0.9796
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

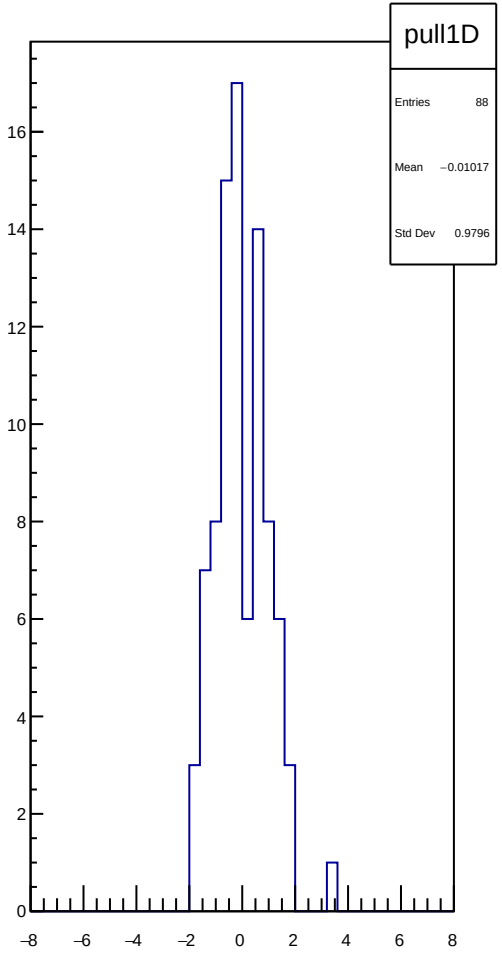

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 2.601e+04 / 87
p0 249.8 ± 0.1936
320
300
280
260
240
220
200

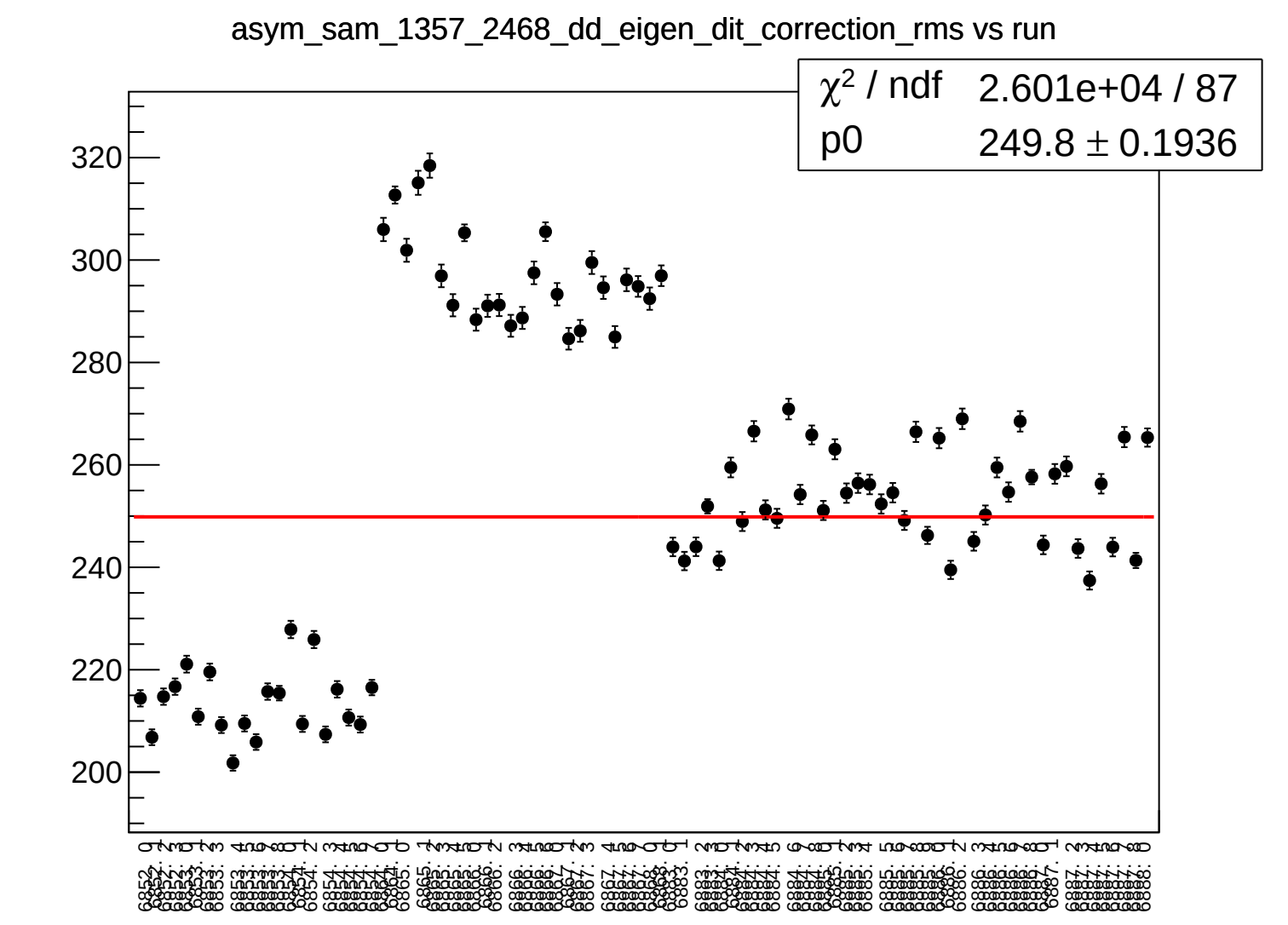

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 51.07 / 87
p0 −1.634 ± 31.44
1000
500
0
−500
−1000
−1500
pull
Entries 88
Mean 400.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

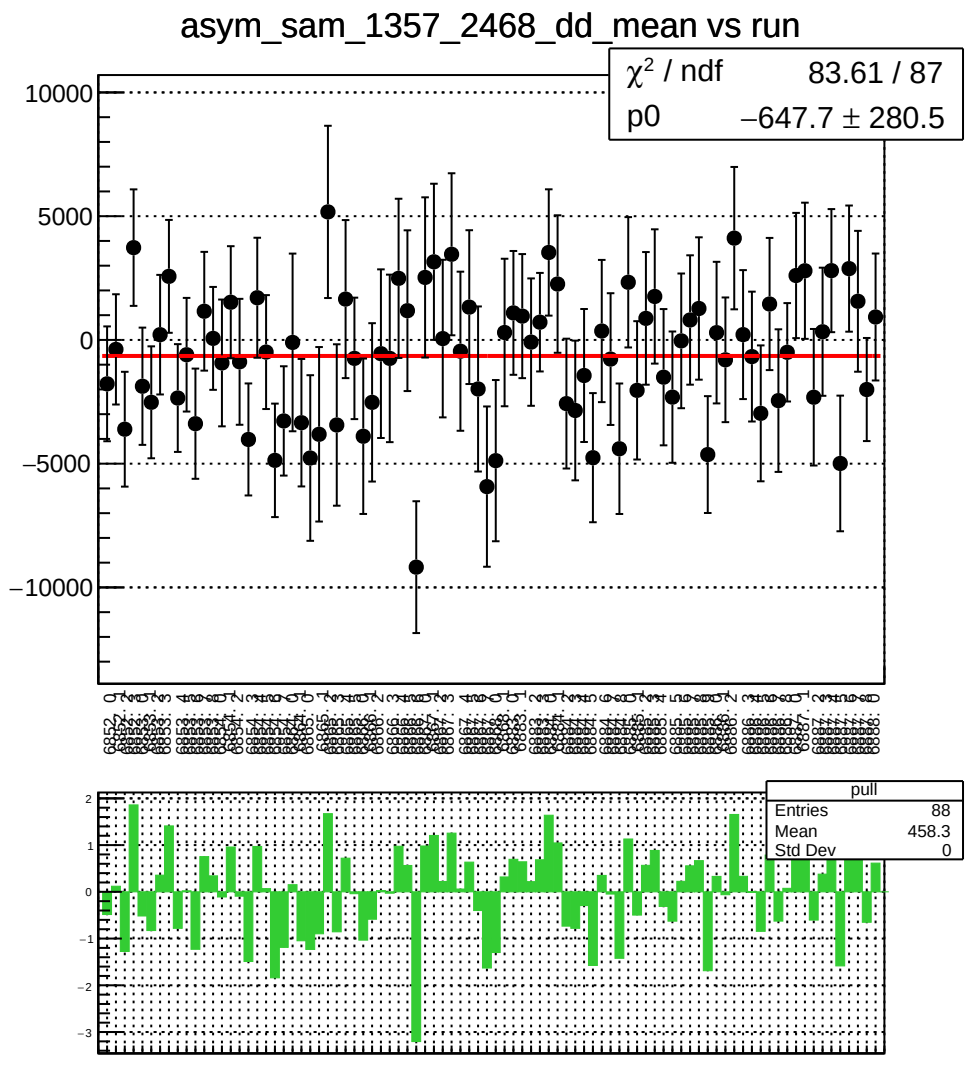

pull1D
Entries 88
Mean 0.004048
Std Dev 0.7618
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

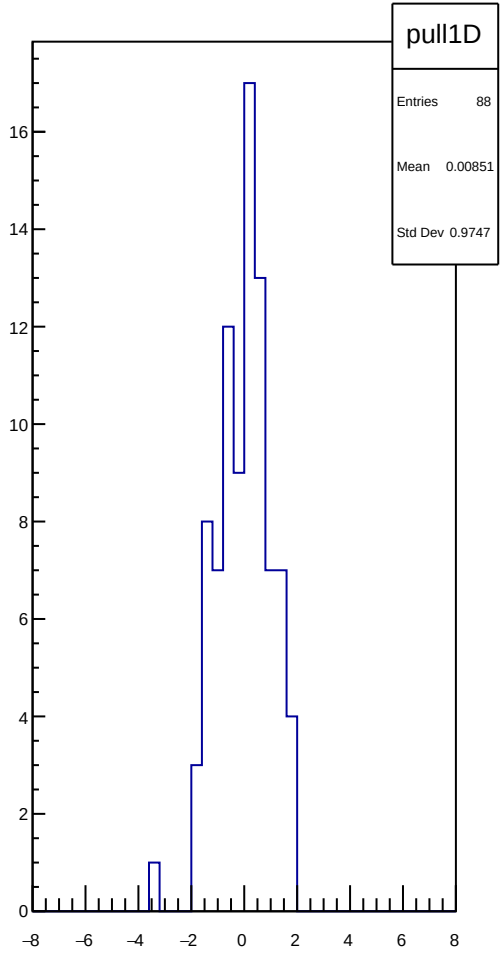

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 3.483e+04 / 87
p0 28.61 ± 0.02223
65
60
55
50
45
40
35
30
25

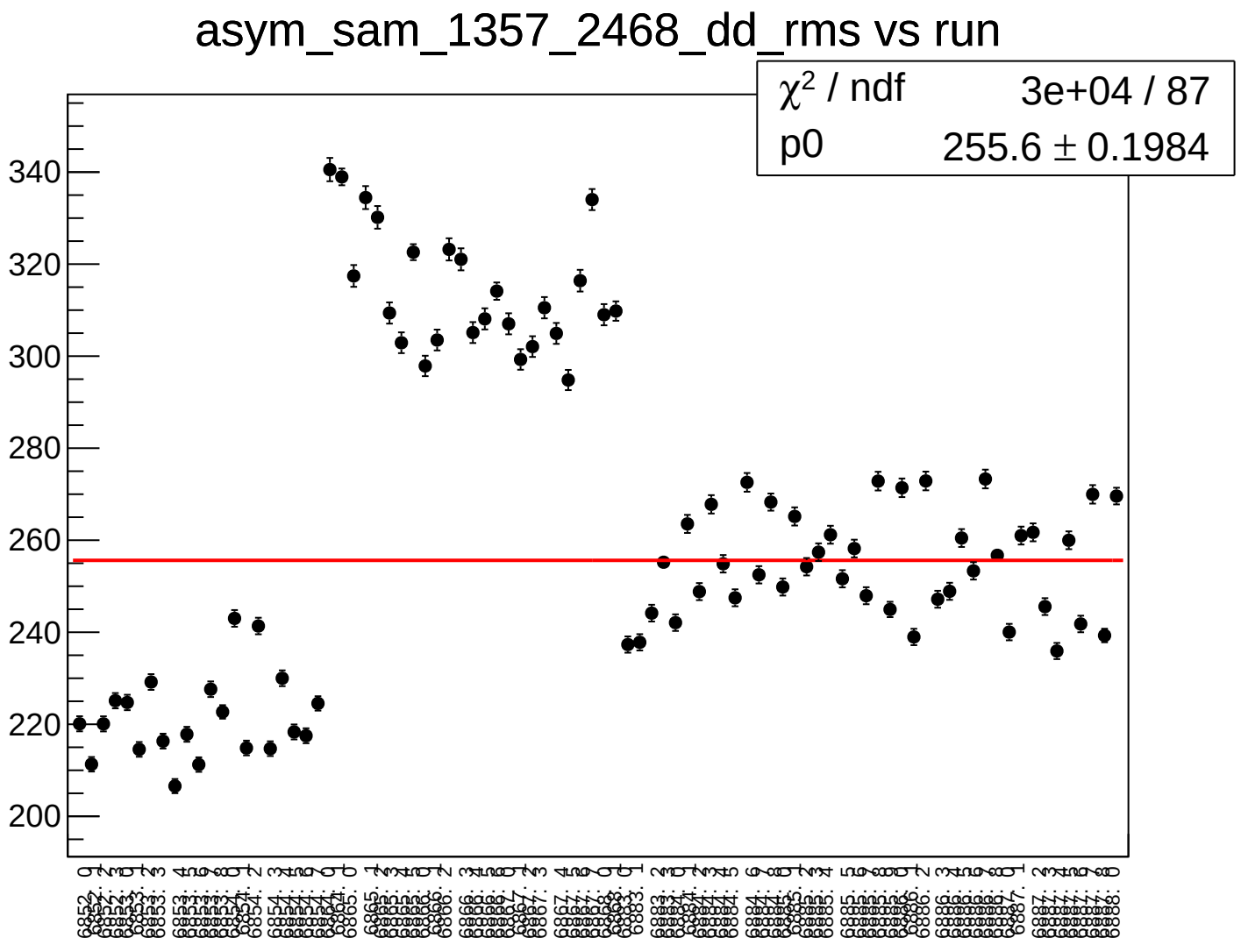

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.45 / 87
p0 655.9 ± 273.8
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 375.1
Std Dev 0
3
2
1
0
−1
−2

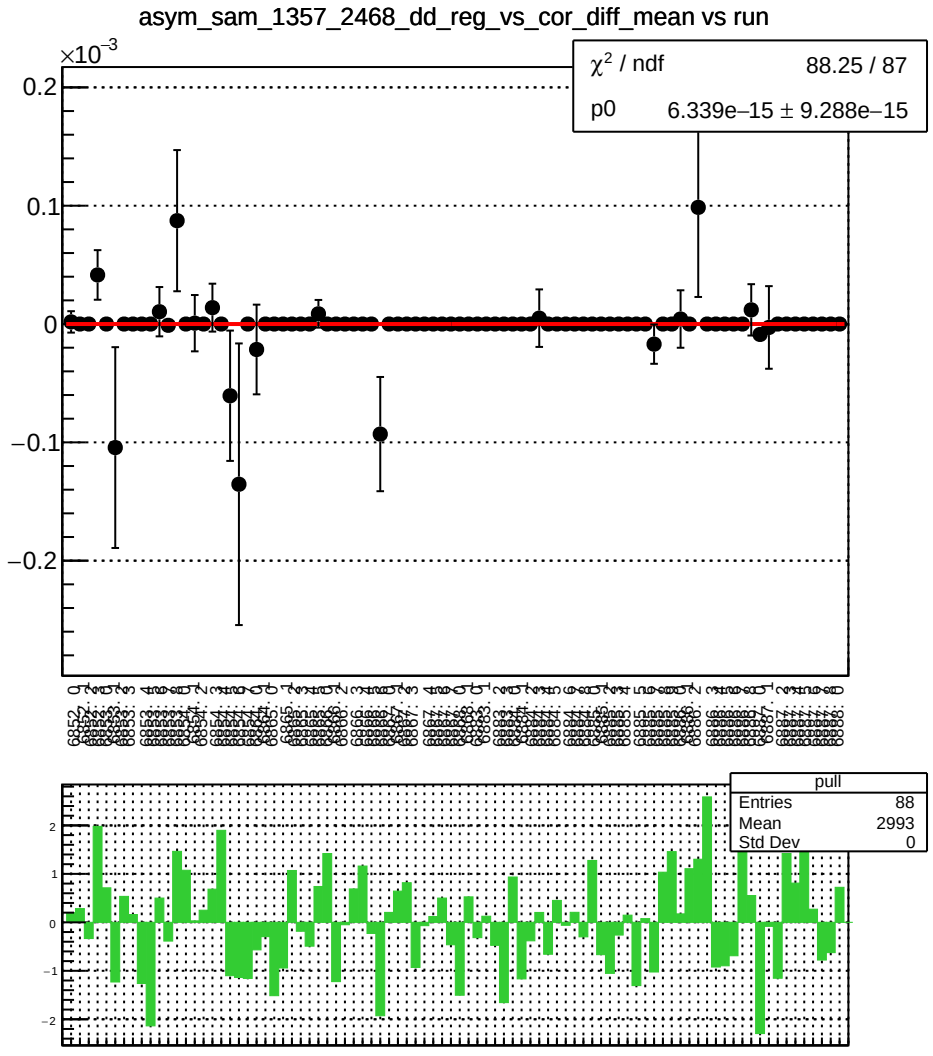

pull1D
Entries 88
Mean −0.01017
Std Dev 0.9796
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

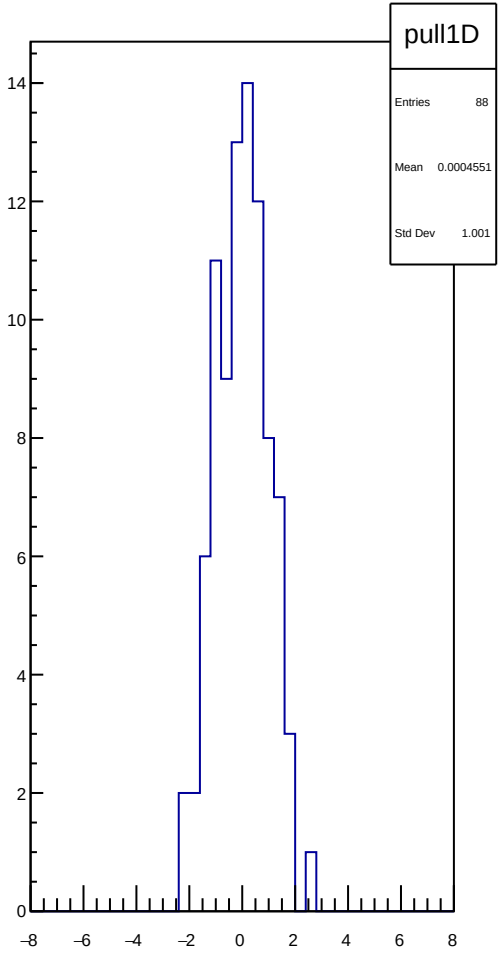

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.601e+04 / 87
p0 249.8 ± 0.1936
320
300
280
260
240
220
200

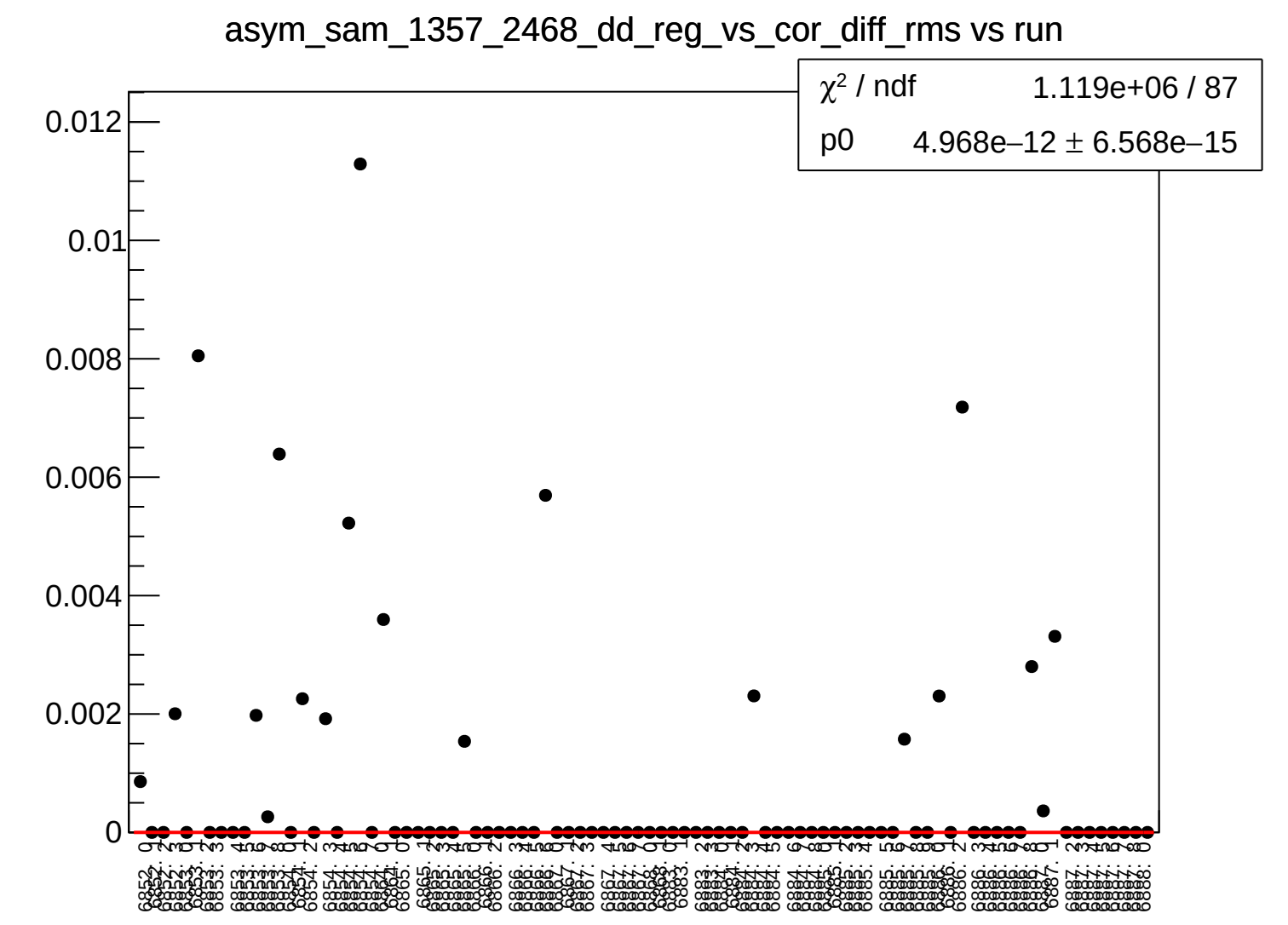

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 83.61 / 87
p0 −647.7 ± 280.5
10000
5000
0
−5000
−10000
pull
Entries 88
Mean 458.3
Std Dev 0
2
1
0
−1
−2
−3

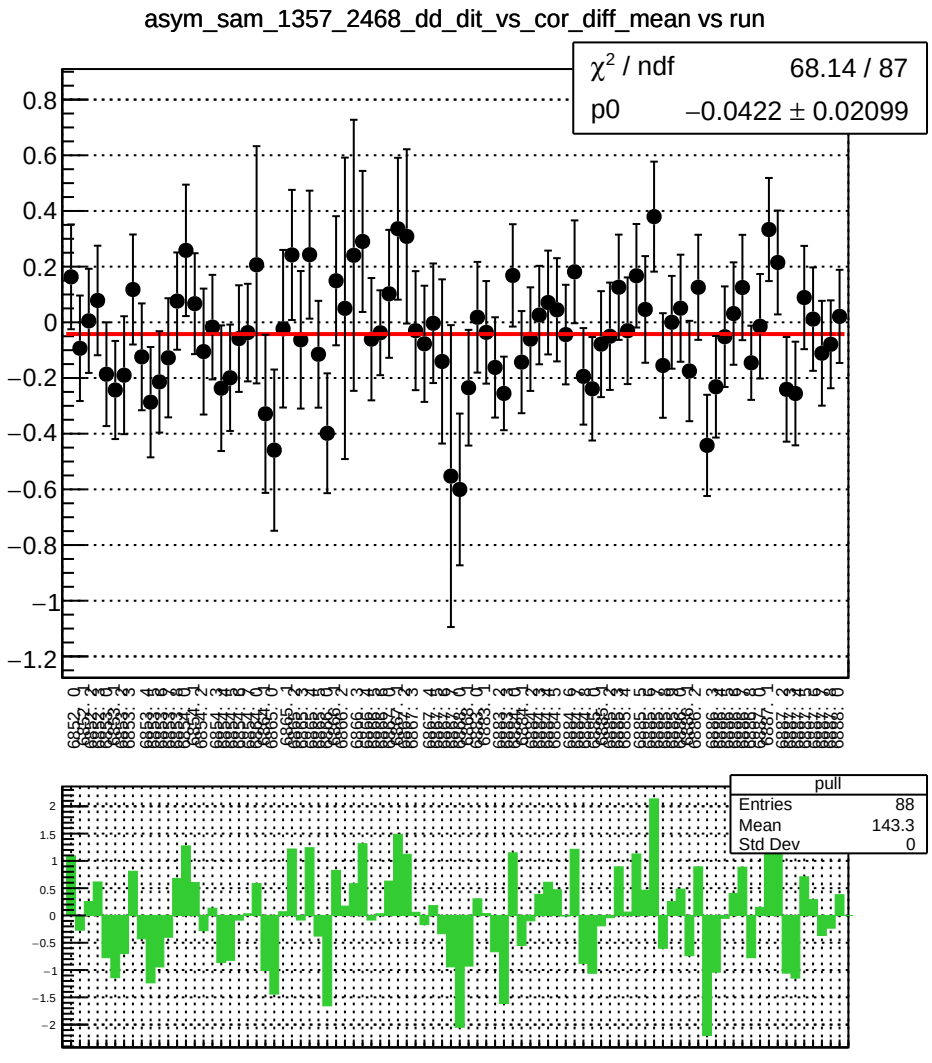

pull1D
Entries 88
Mean 0.00851
Std Dev 0.9747
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

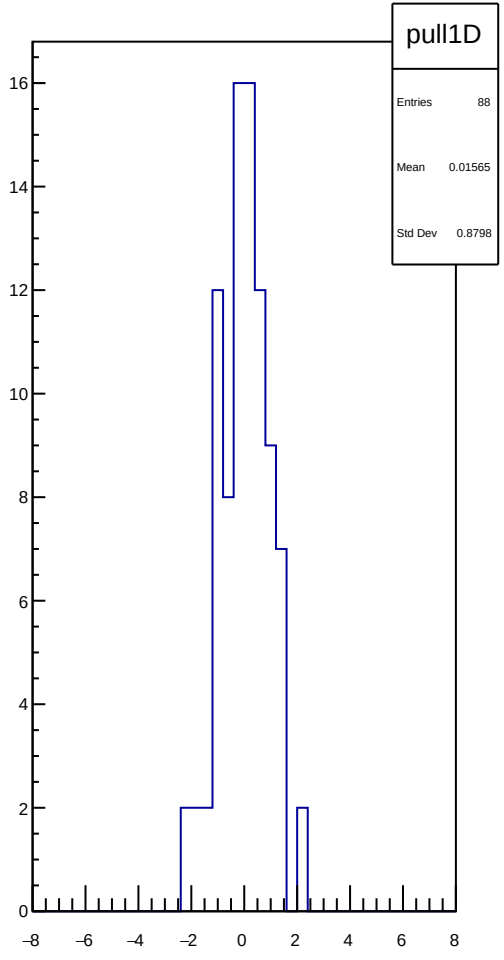

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3e+04 / 87
p0 255.6 ± 0.1984
340
320
300
280
260
240
220
200

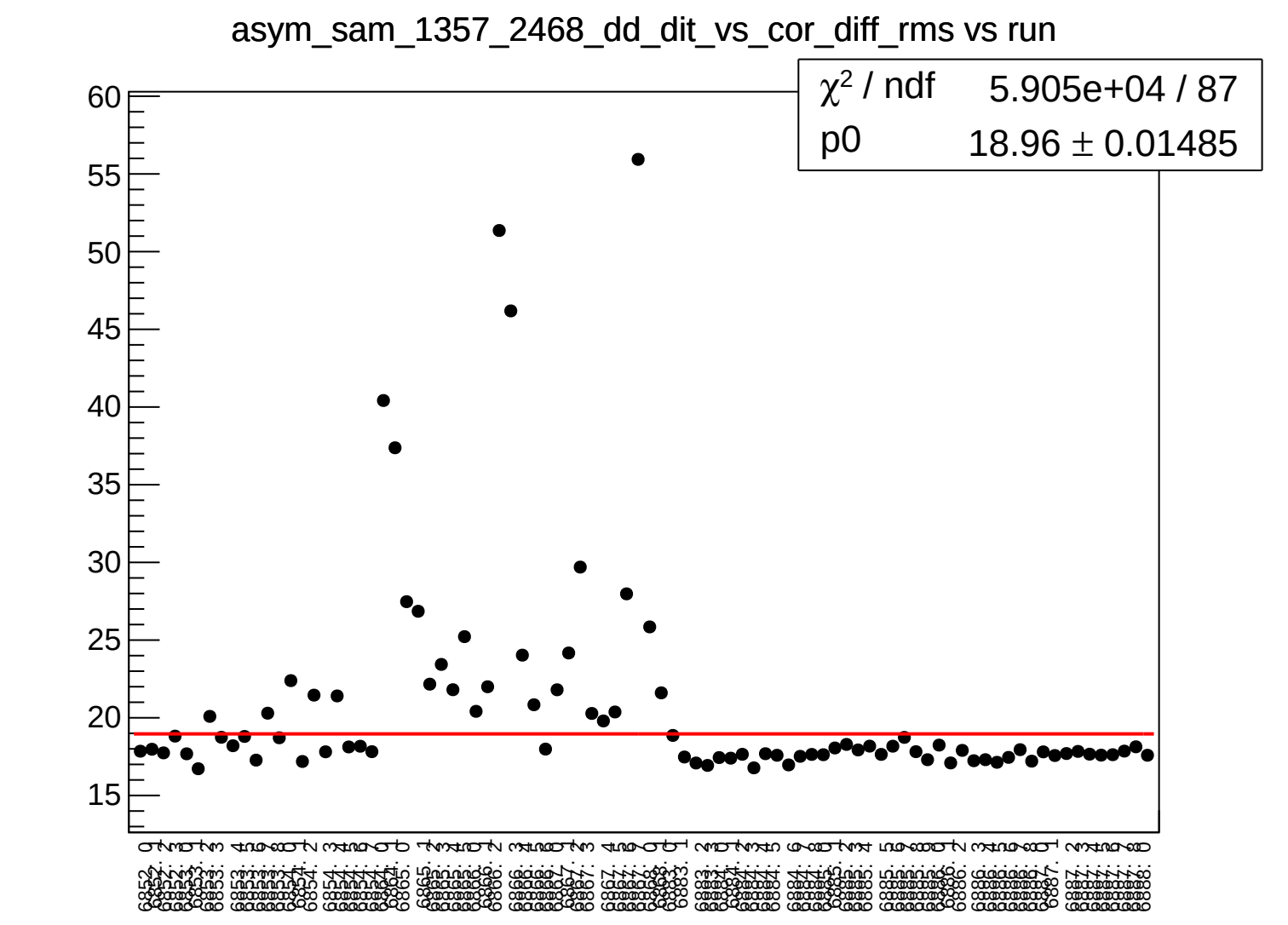

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 88.25 / 87
p0 6.339e−15 ± 9.288e−15
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean 2993
Std Dev 0
2
1
0
−1
−2

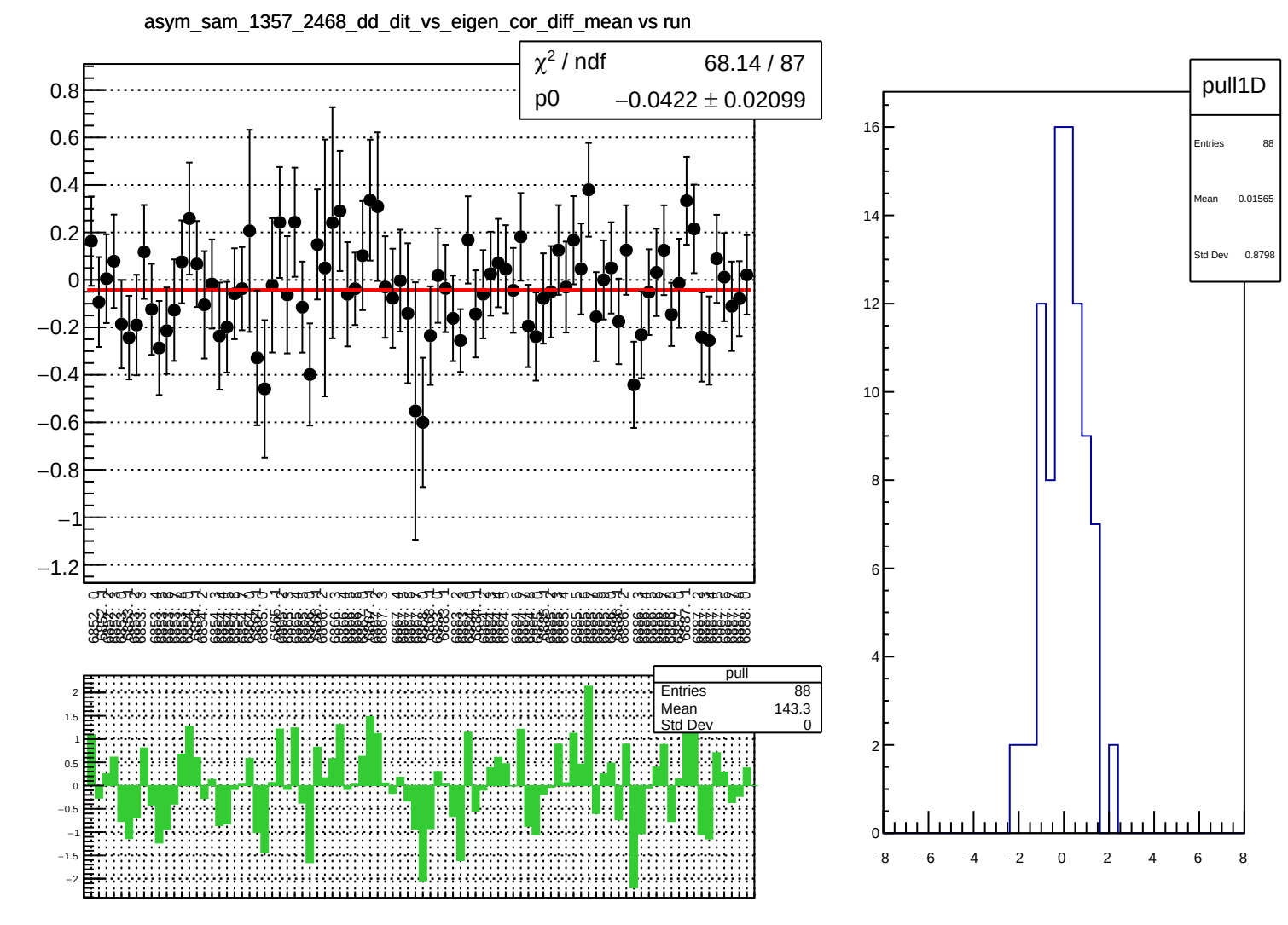

pull1D
Entries 88
Mean 0.0004551
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

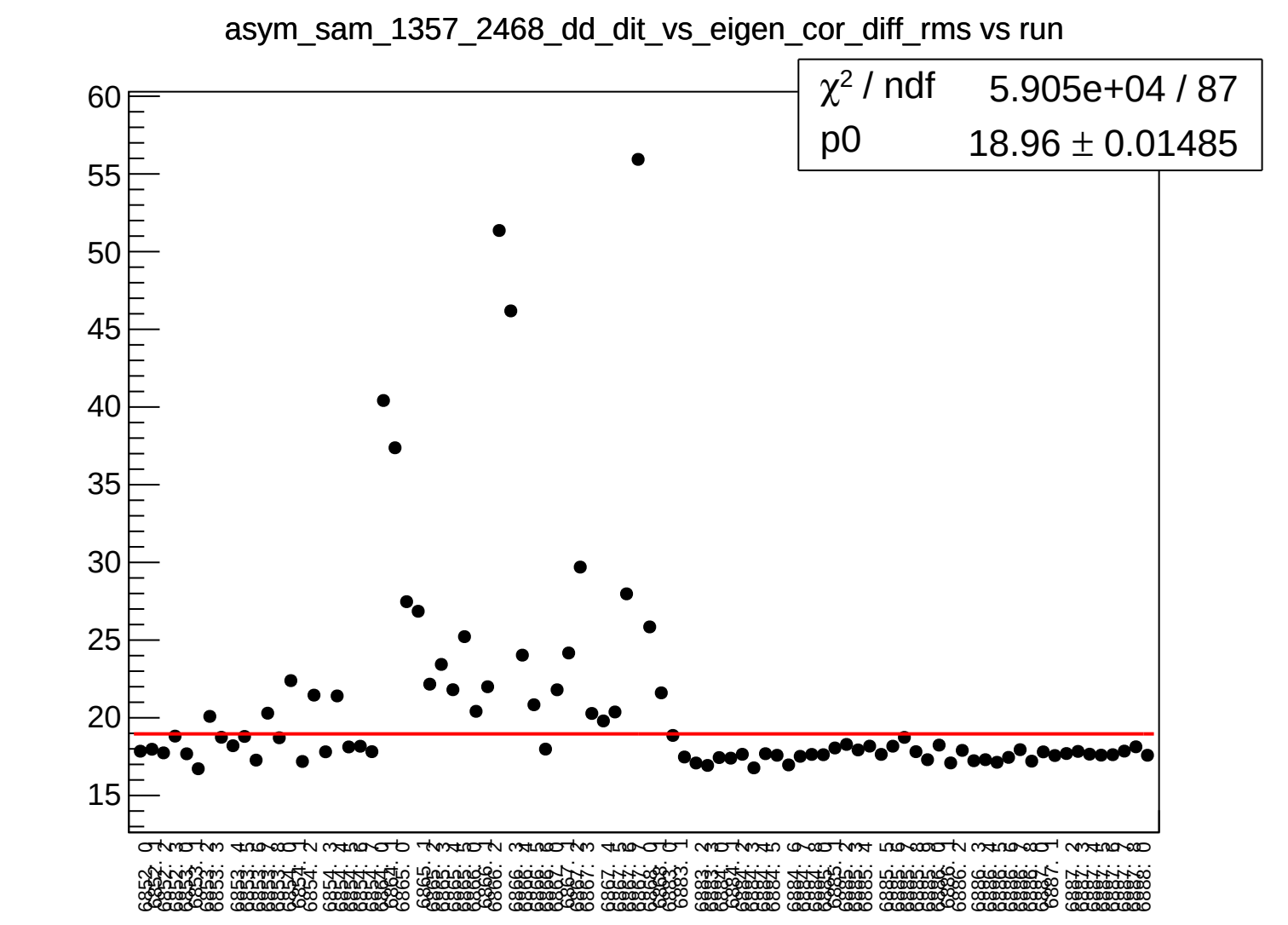

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.119e+06 / 87
p0 4.968e−12 ± 6.568e−15
0.012
0.01
0.008
0.006
0.004
0.002
0

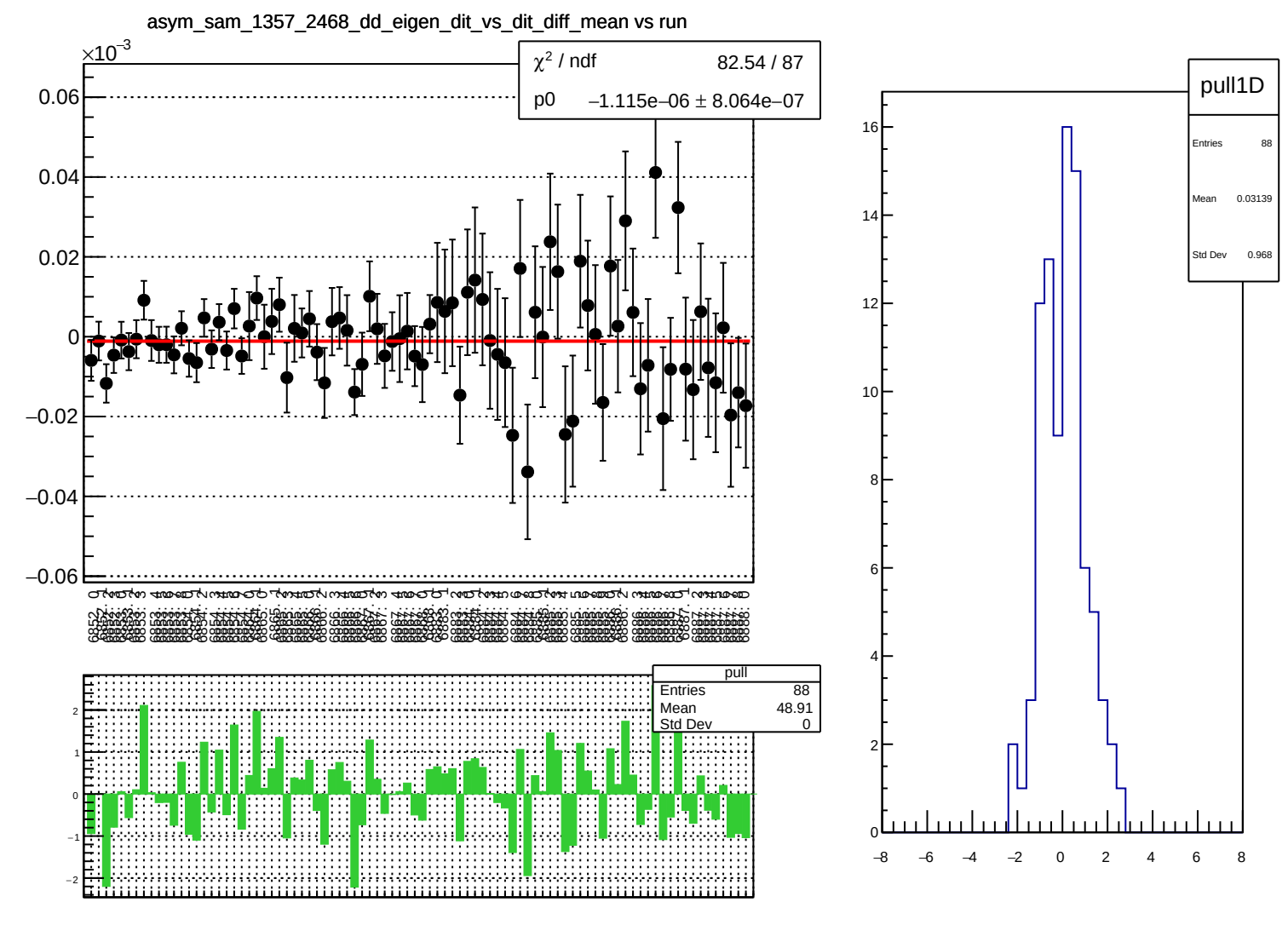

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.14 / 87
p0 −0.0422 ± 0.02099
pull
Entries 88
Mean 143.3
Std Dev 0

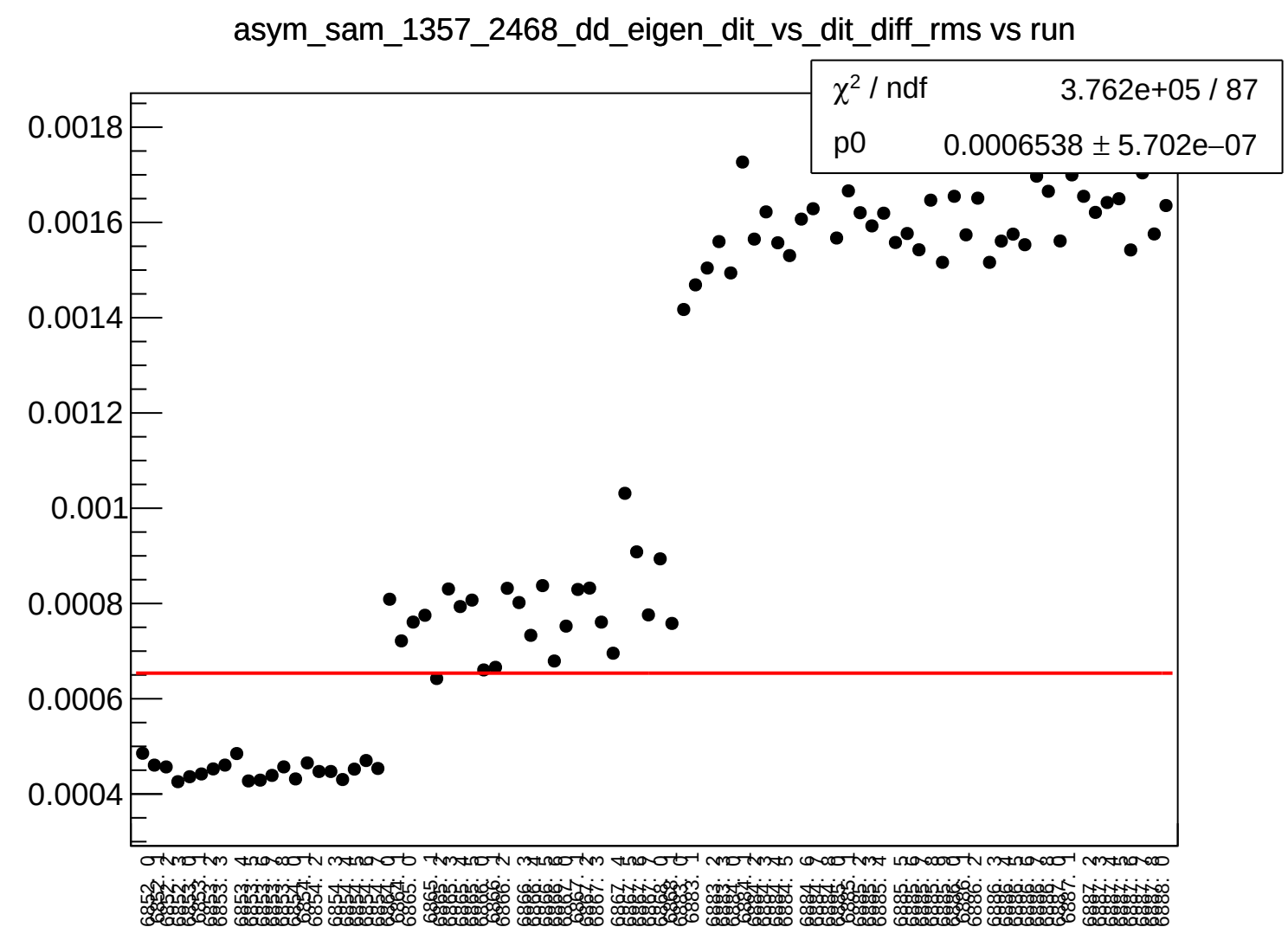

pull1D
Entries 88
Mean 0.01565
Std Dev 0.8798

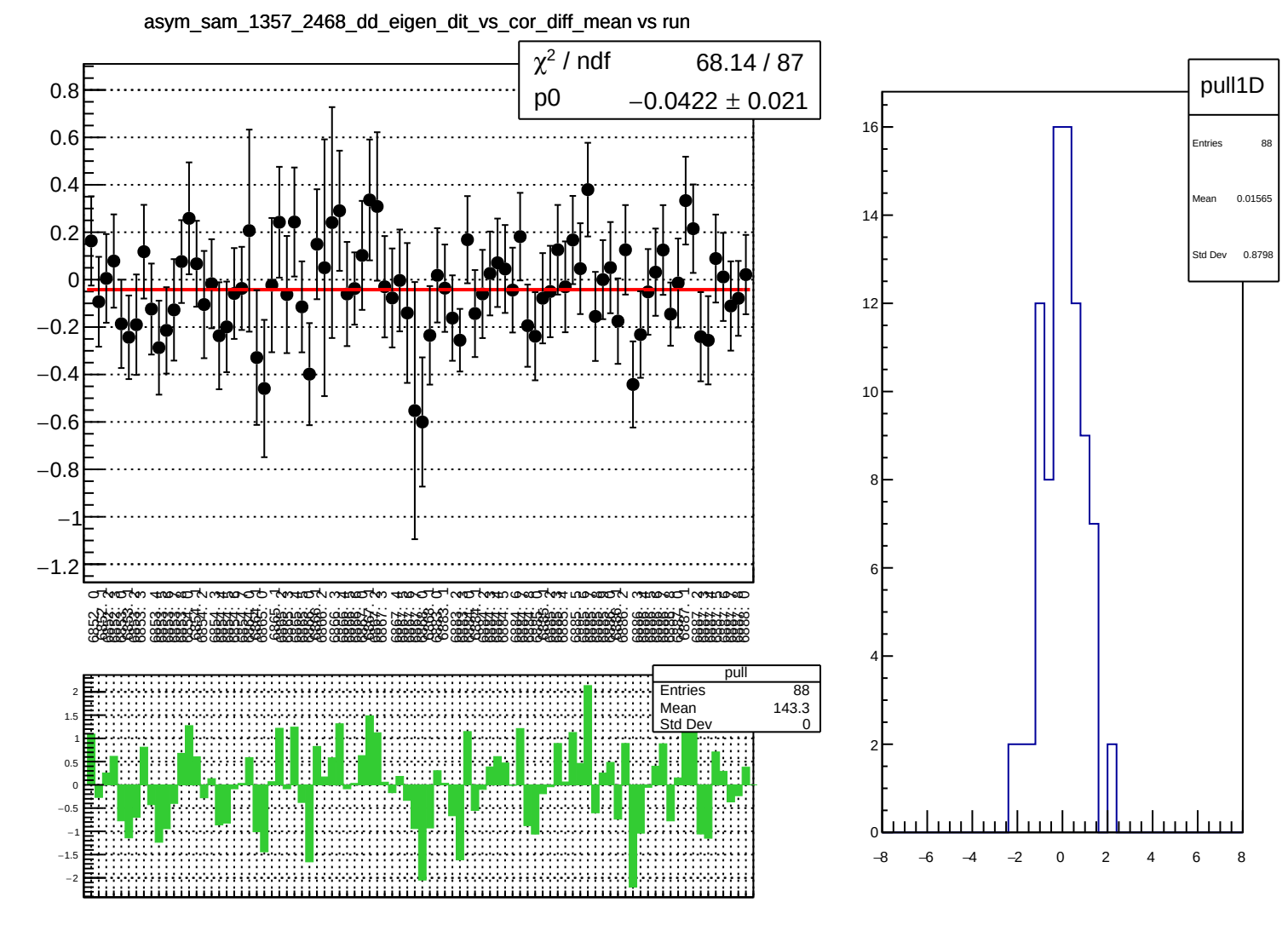

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.905e+04 / 87
p0 18.96 ± 0.01485
60
55
50
45
40
35
30
25
20
15

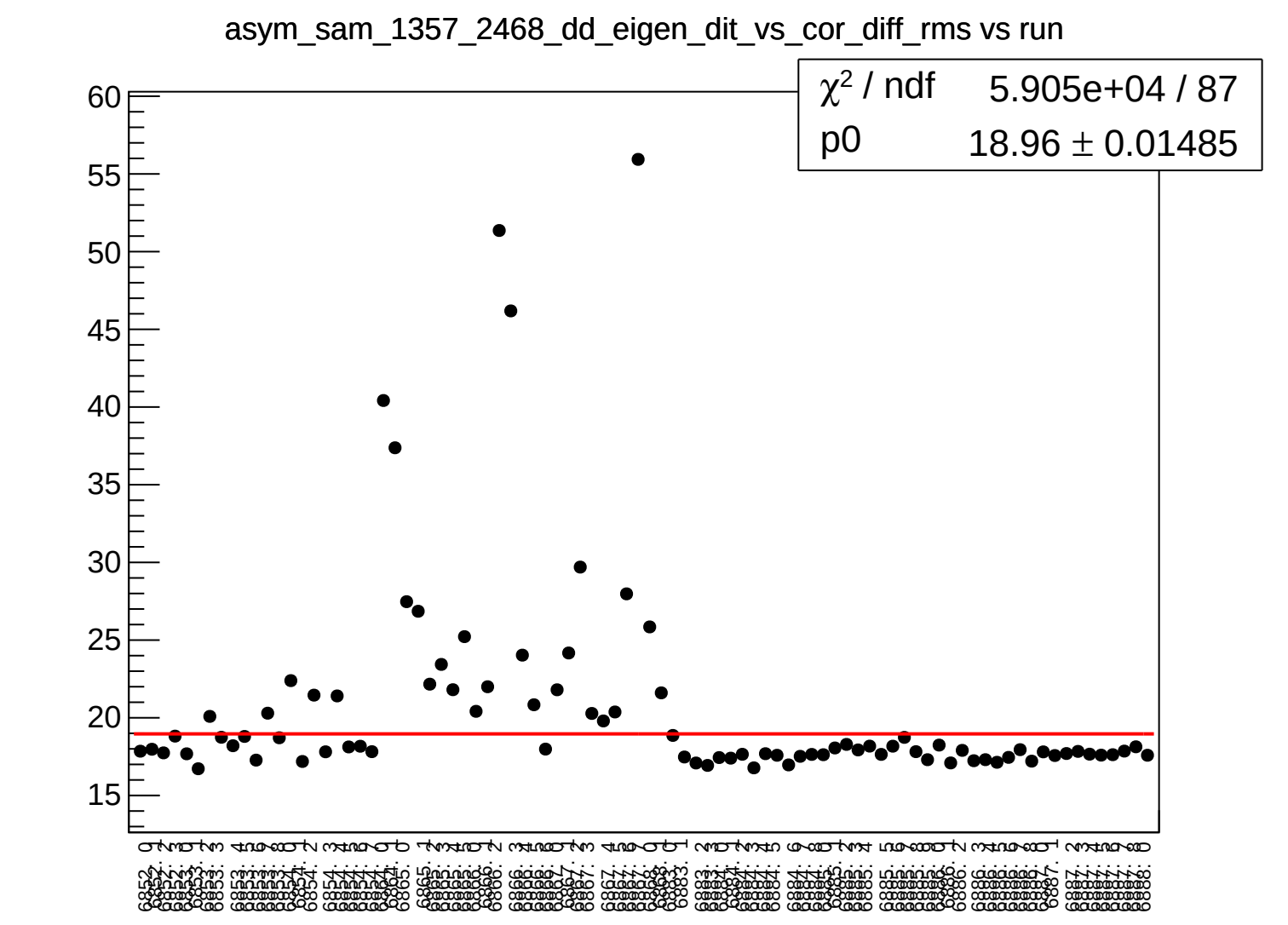

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.14 / 87
p0 −0.0422 ± 0.02099
pull
Entries 88
Mean 143.3
Std Dev 0
pull1D
Entries 88
Mean 0.01565
Std Dev 0.8798

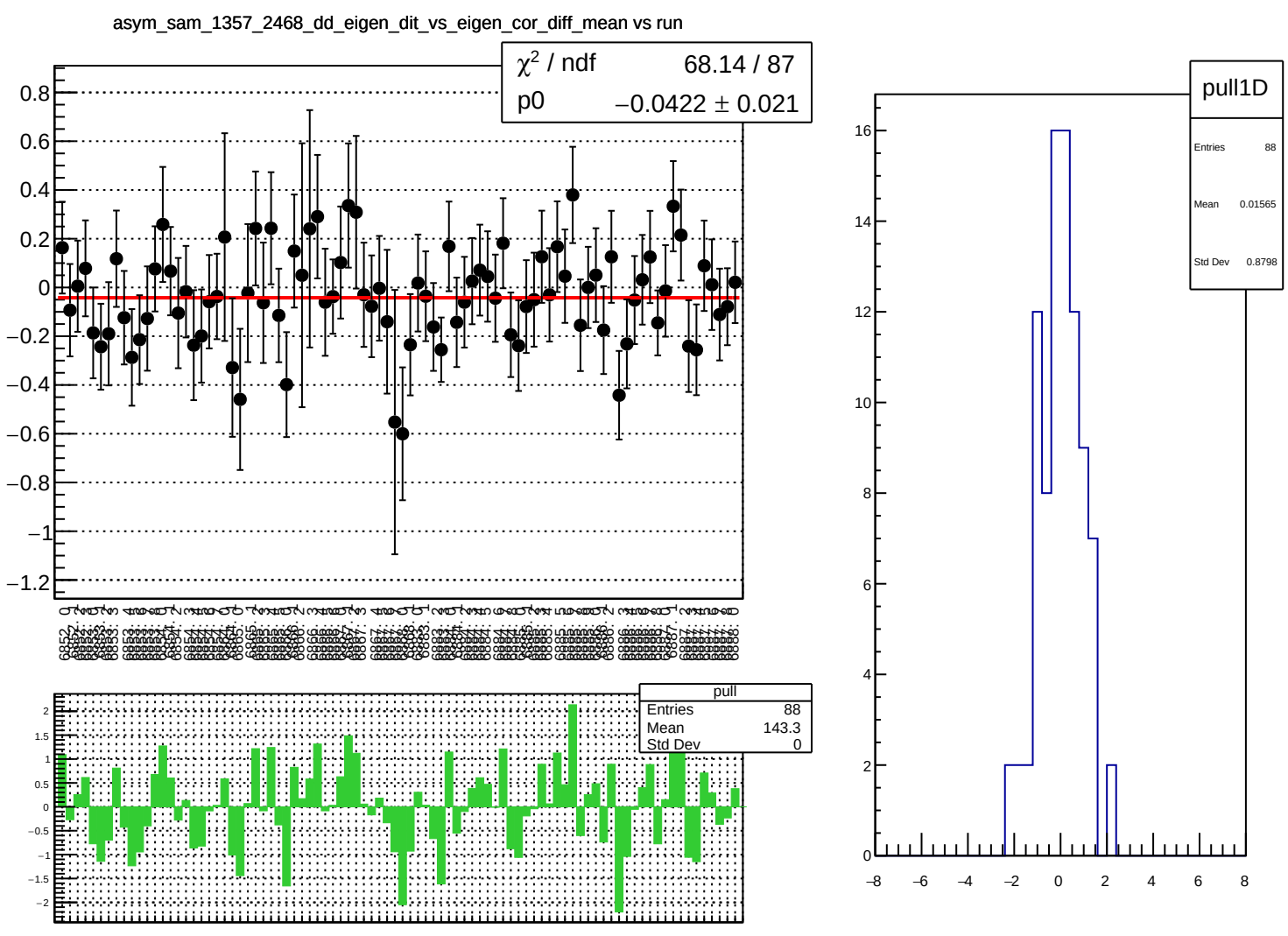

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.905e+04 / 87
p0 18.96 ± 0.01485
60
55
50
45
40
35
30
25
20
15

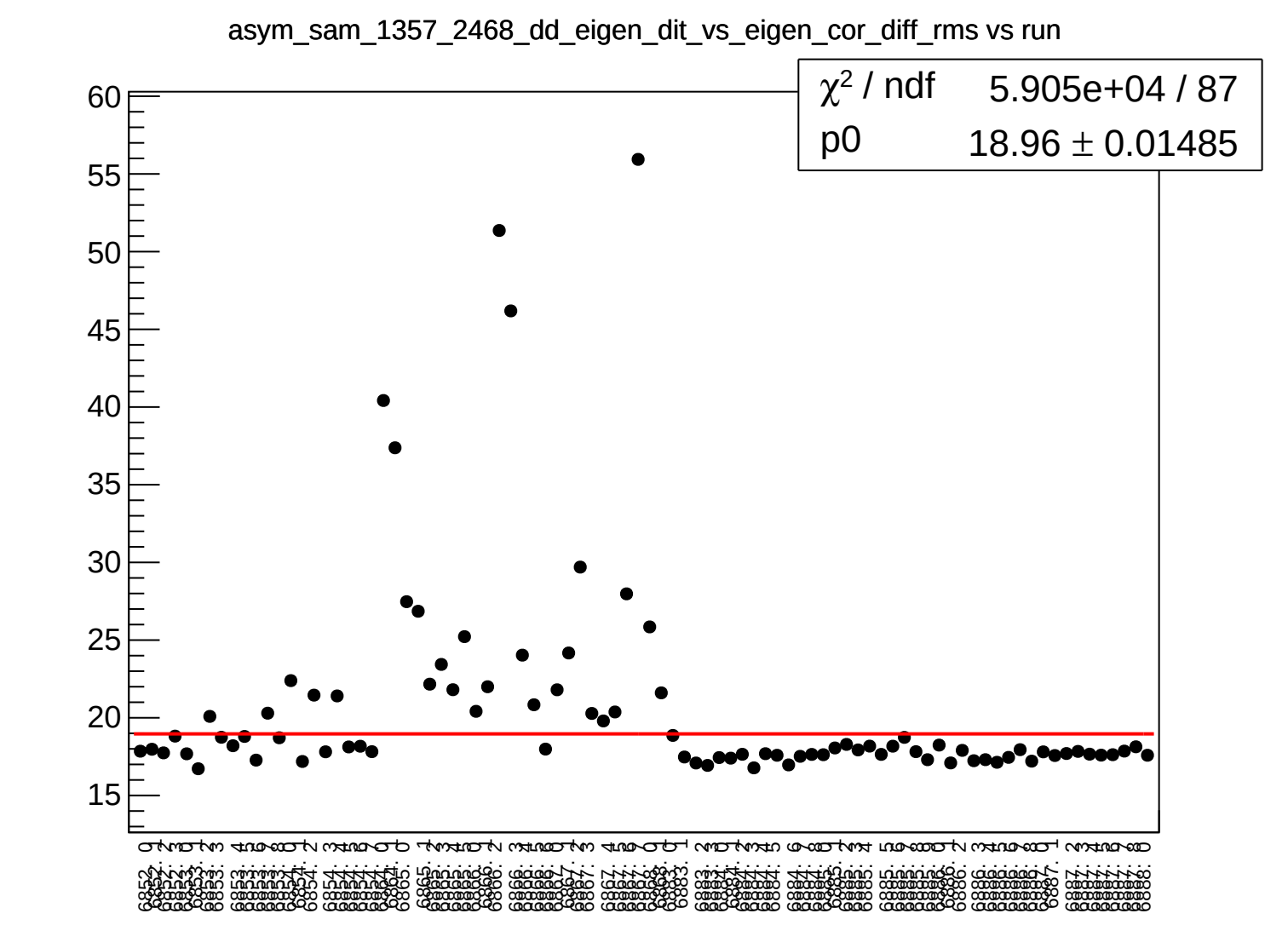

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.54 / 87
p0 −1.115e−06 ± 8.064e−07
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 88
Mean 48.91
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.03139
Std Dev 0.968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

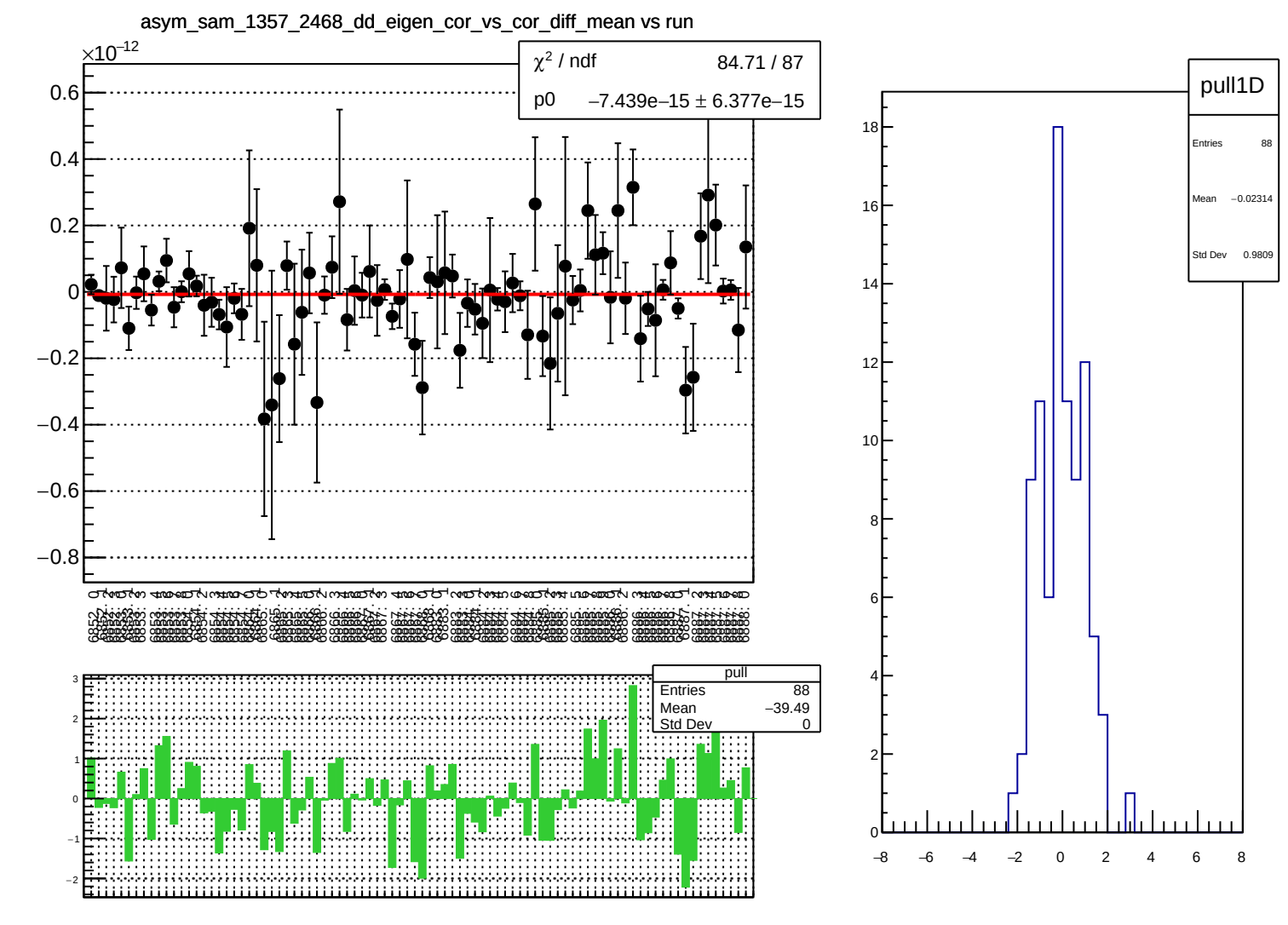

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.762e+05 / 87
p0 0.0006538 ± 5.702e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

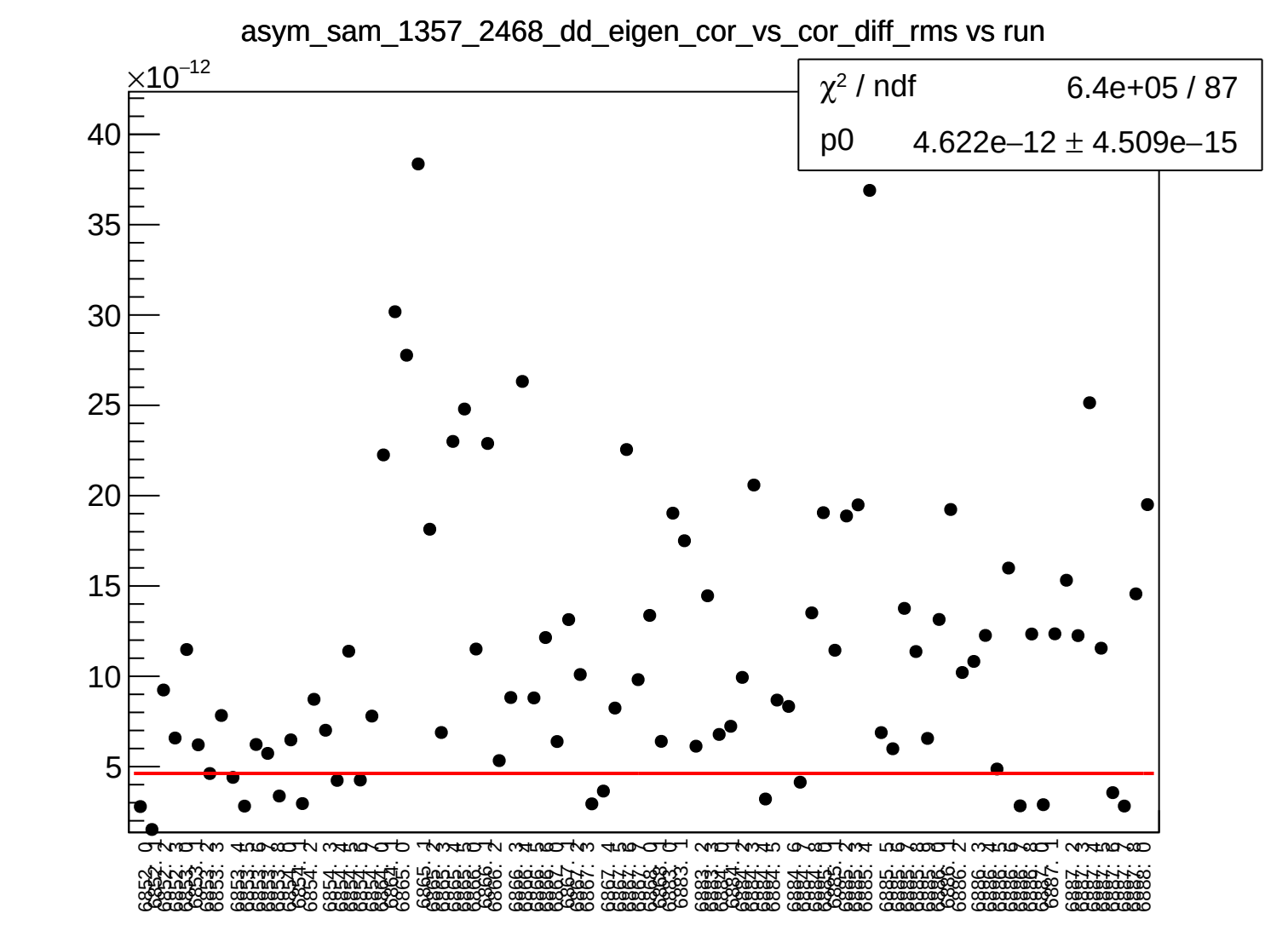

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.14 / 87
p0 −0.0422 ± 0.021
pull
Entries 88
Mean 143.3
Std Dev 0
pull1D
Entries 88
Mean 0.01565
Std Dev 0.8798

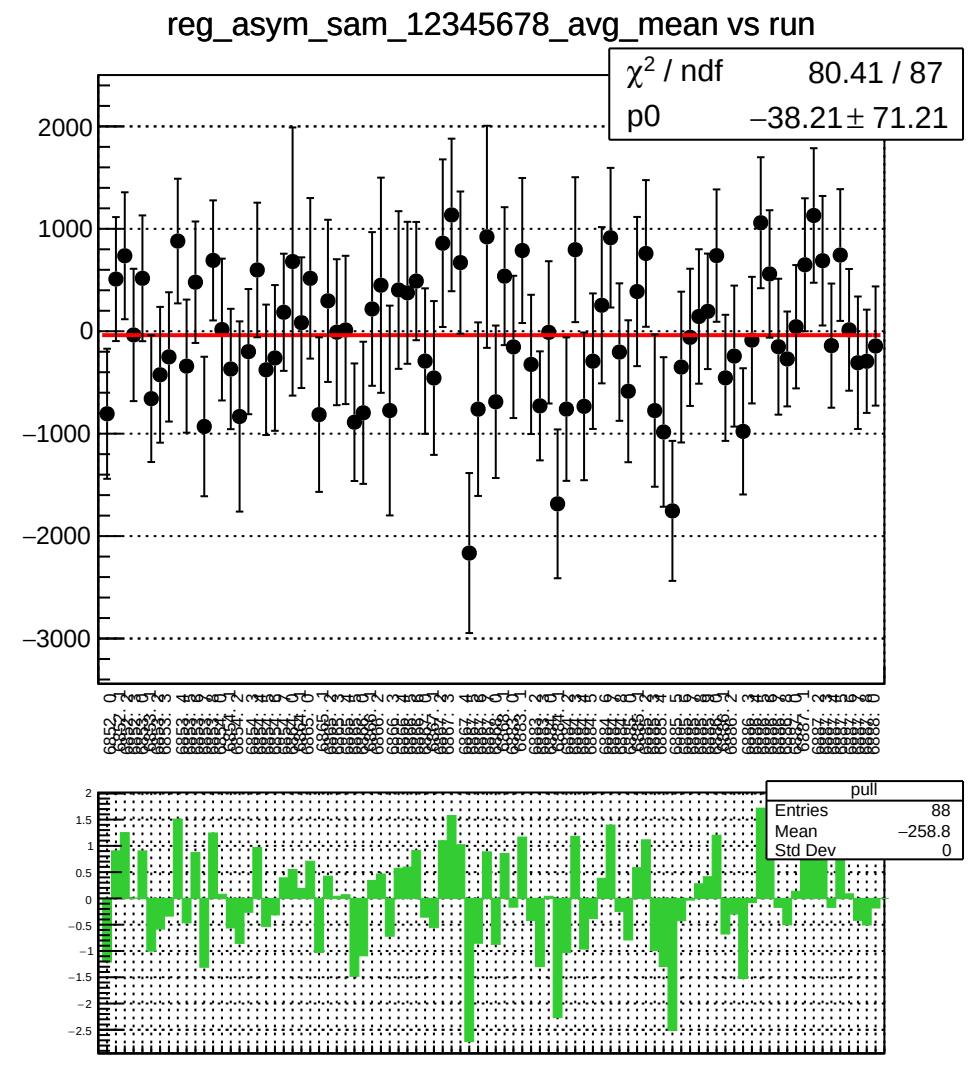

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.905e+04 / 87
p0 18.96 ± 0.01485
60
55
50
45
40
35
30
25
20
15

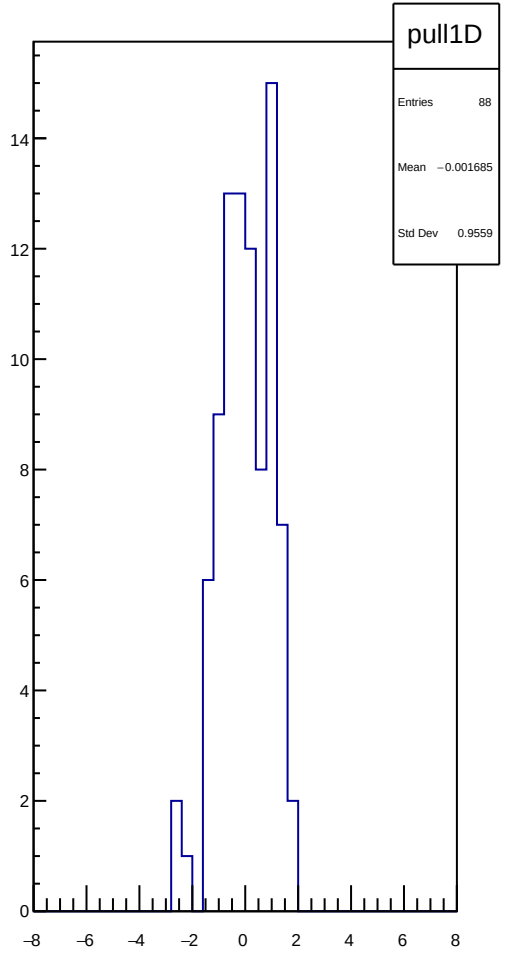

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.14 / 87
p0 −0.0422 ± 0.021
pull
Entries 88
Mean 143.3
Std Dev 0
pull1D
Entries 88
Mean 0.01565
Std Dev 0.8798

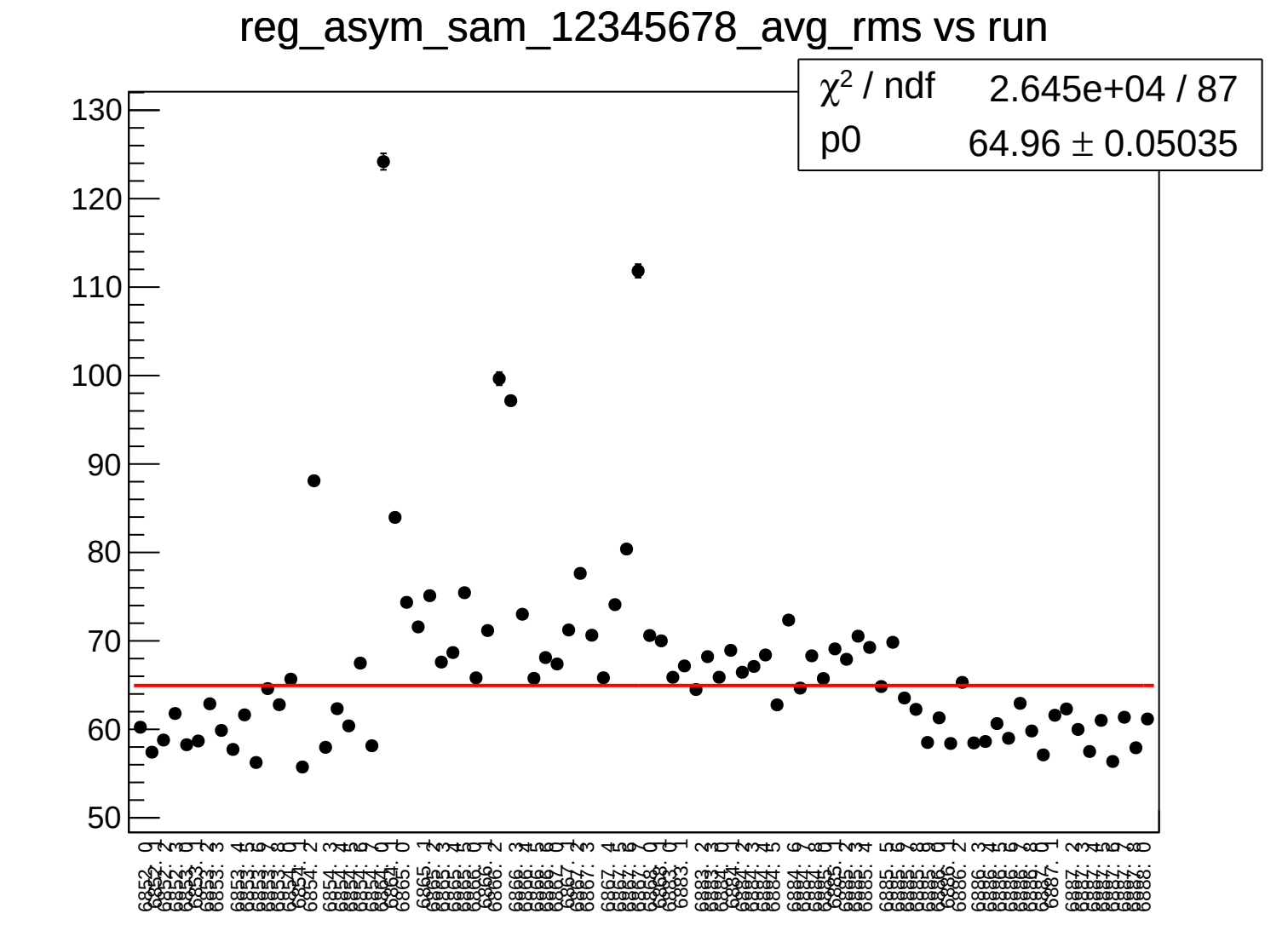

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.905e+04 / 87
p0 18.96 ± 0.01485
60
55
50
45
40
35
30
25
20
15

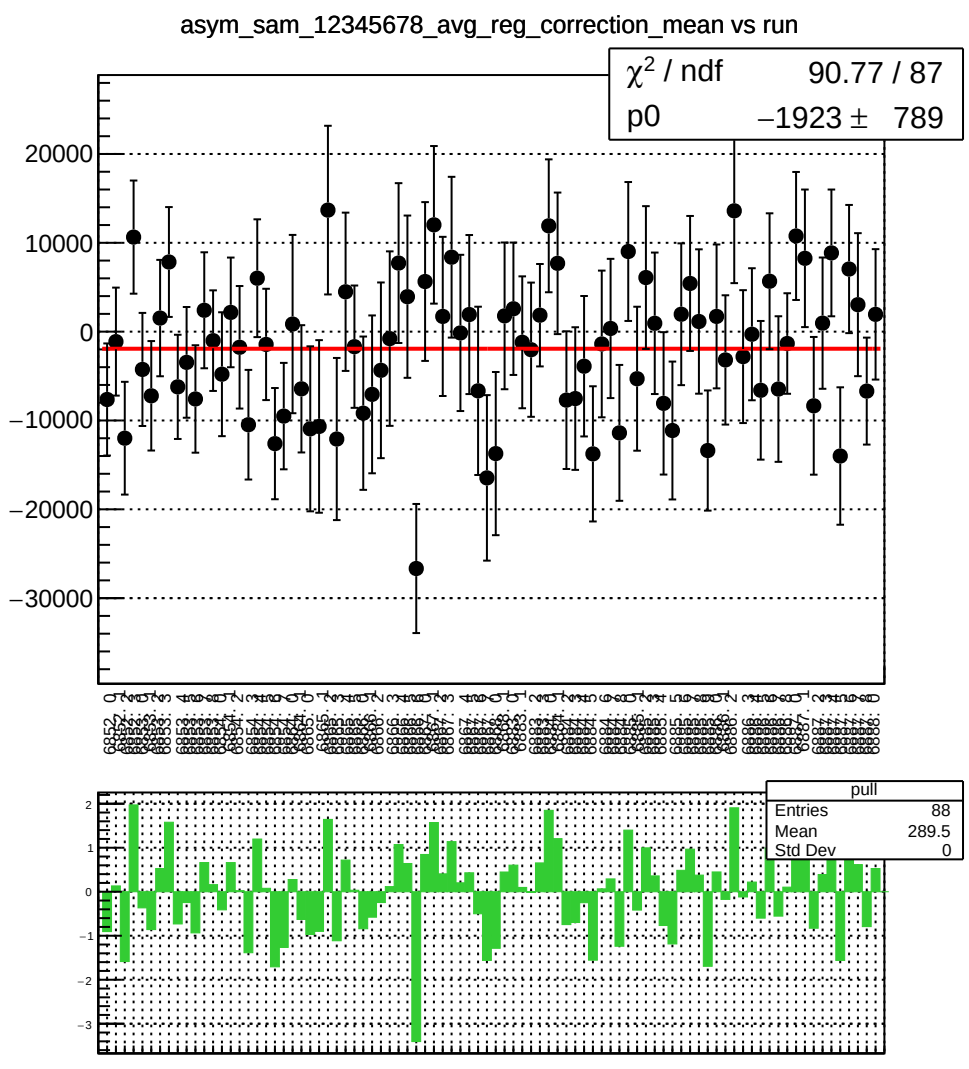

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 84.71 / 87
p0 −7.439e−15 ± 6.377e−15
pull
Entries 88
Mean −39.49
Std Dev 0
pull1D
Entries 88
Mean −0.02314
Std Dev 0.9809

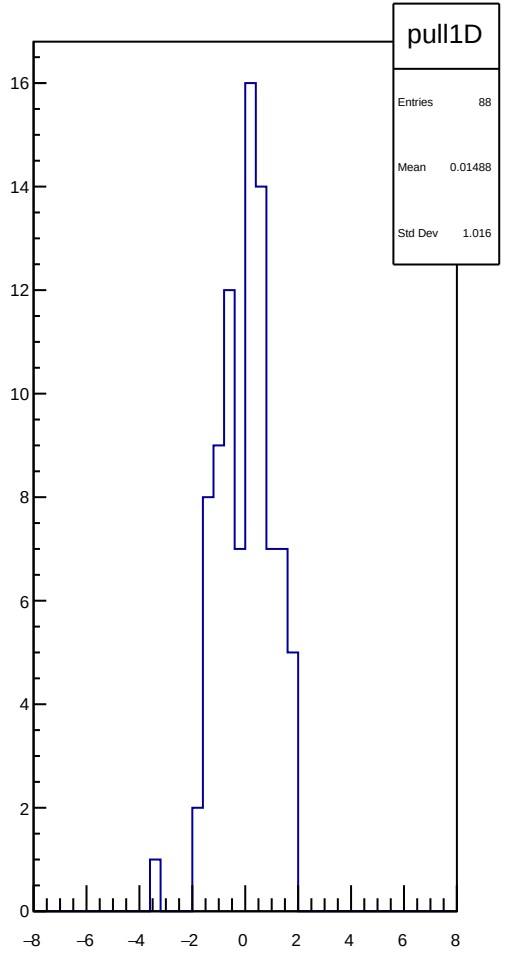

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.4e+05 / 87
p0 4.622e−12 ± 4.509e−15
40
35
30
25
20
15
10
5

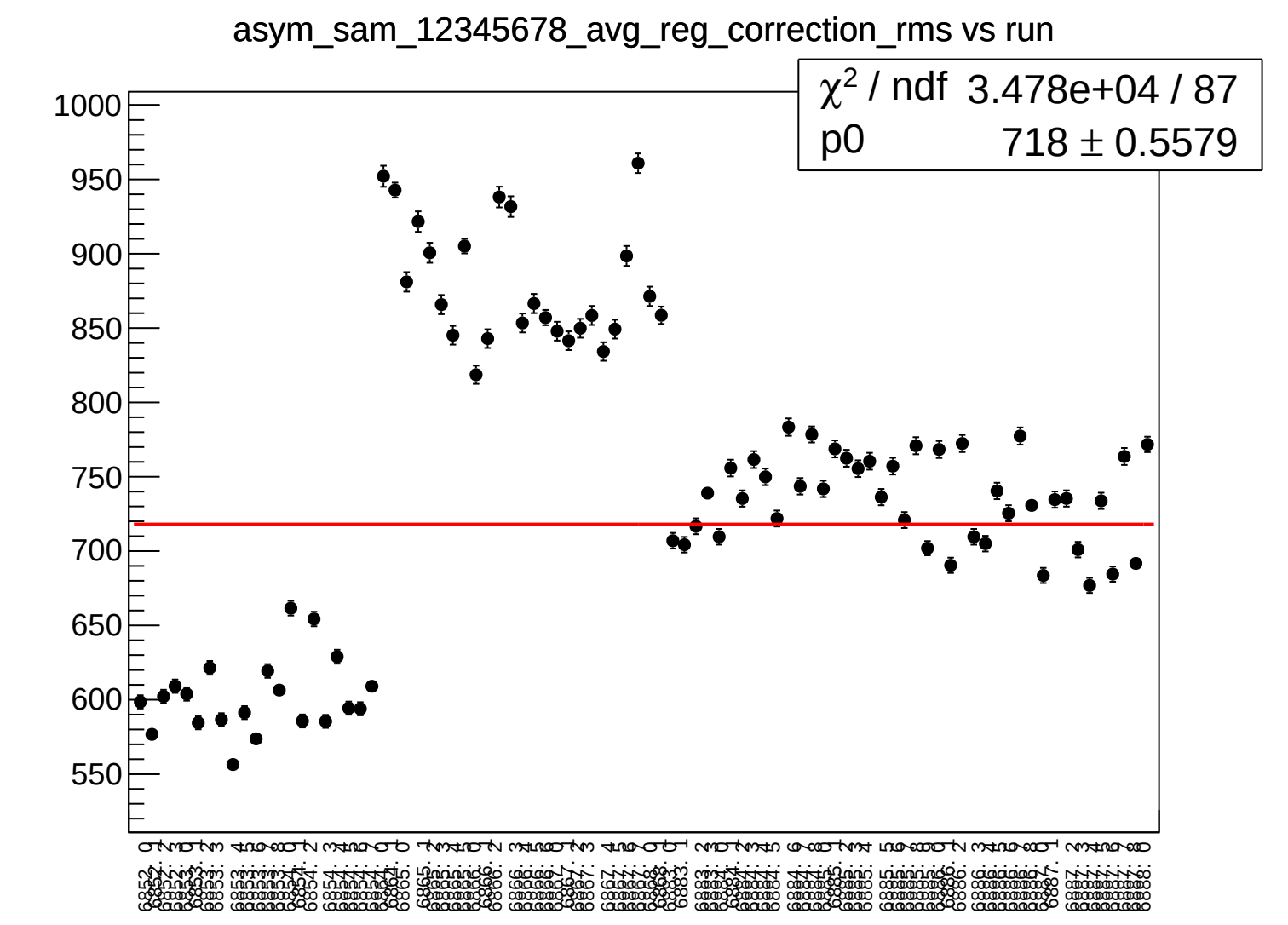

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 80.41 / 87
p0 −38.21 ± 71.21
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −258.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

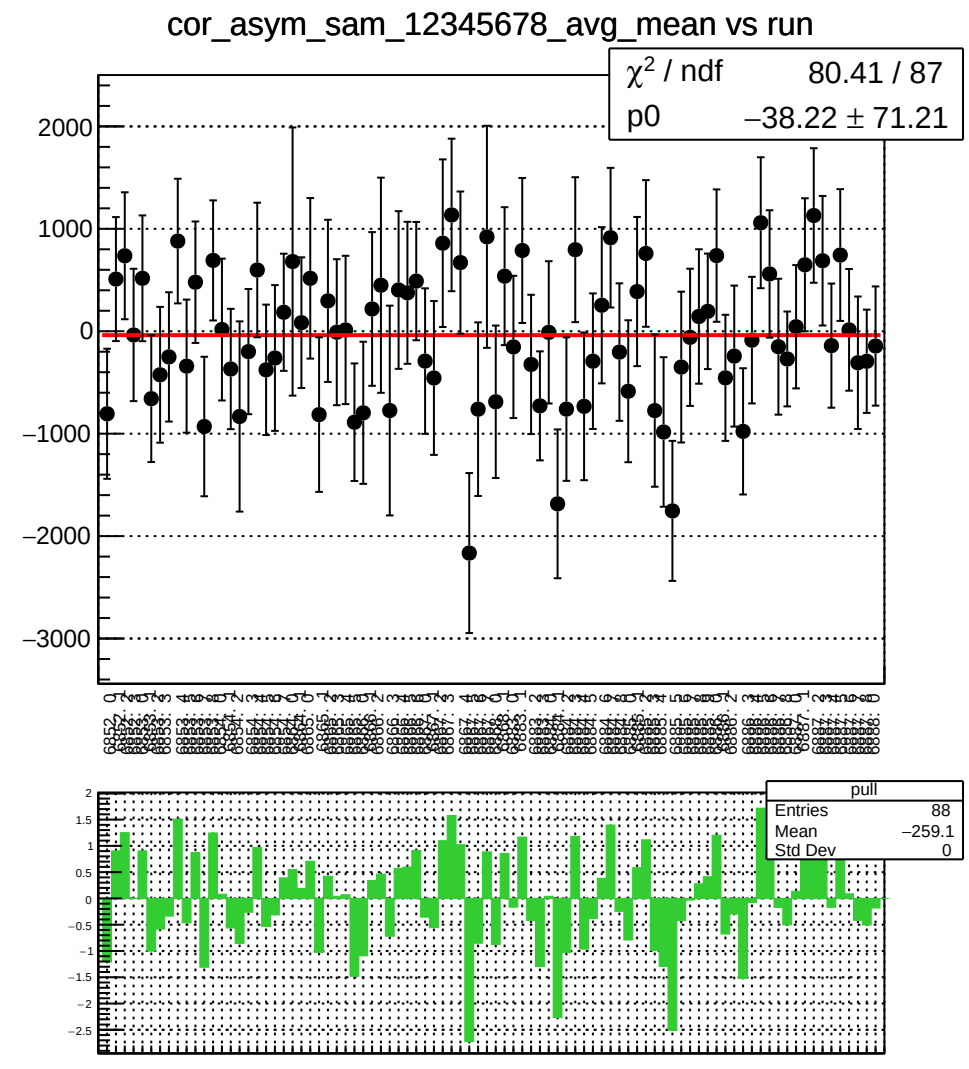

pull1D
Entries 88
Mean −0.001685
Std Dev 0.9559
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

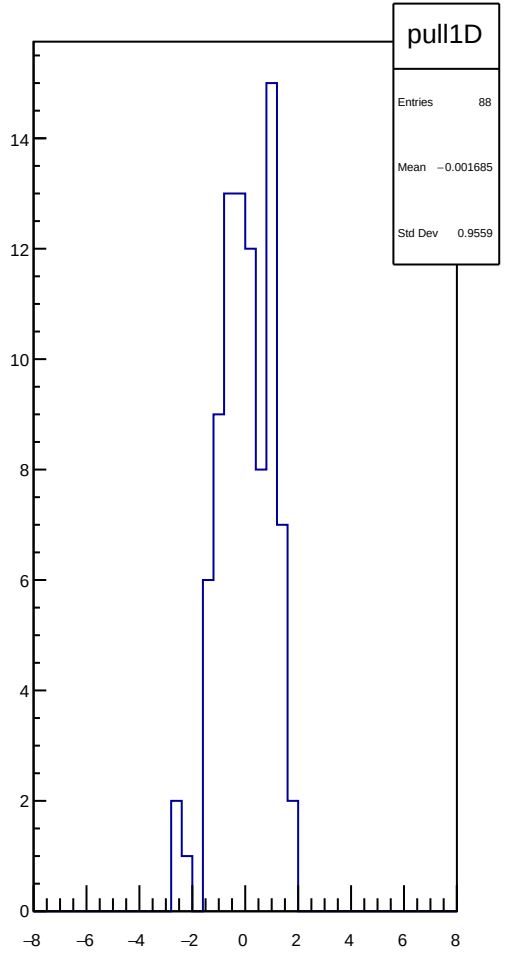

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.645e+04 / 87
p0 64.96 ± 0.05035
130
120
110
100
90
80
70
60
50


asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 90.77 / 87
p0 −1923 ± 789
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 289.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean 0.01488
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 3.478e+04 / 87
p0 718 ± 0.5579
1000
950
900
850
800
750
700
650
600
550


cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 80.41 / 87
p0 −38.22 ± 71.21
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −259.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 88
Mean −0.001685
Std Dev 0.9559
14
12
10
8
6
4
2
0
−8
−6
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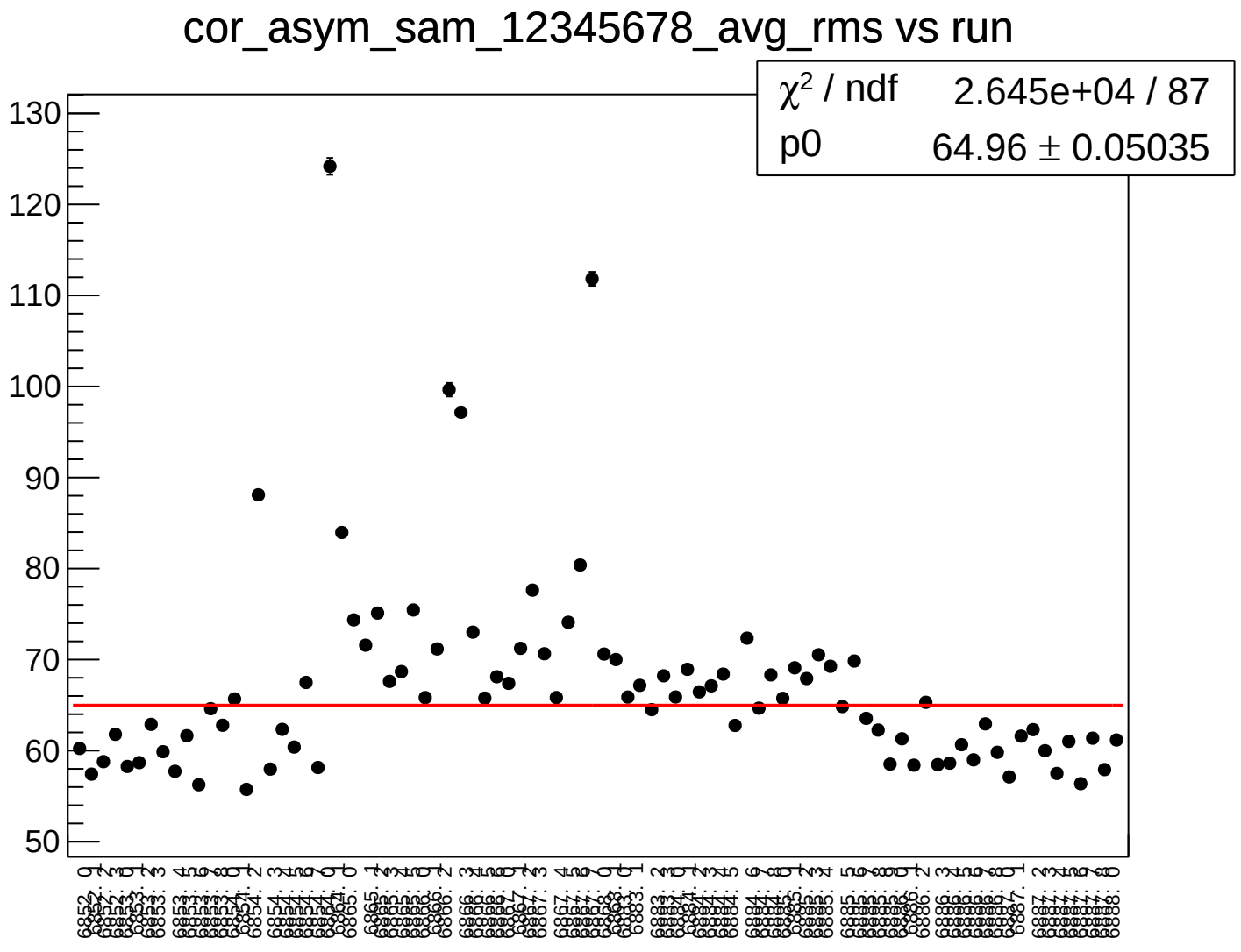
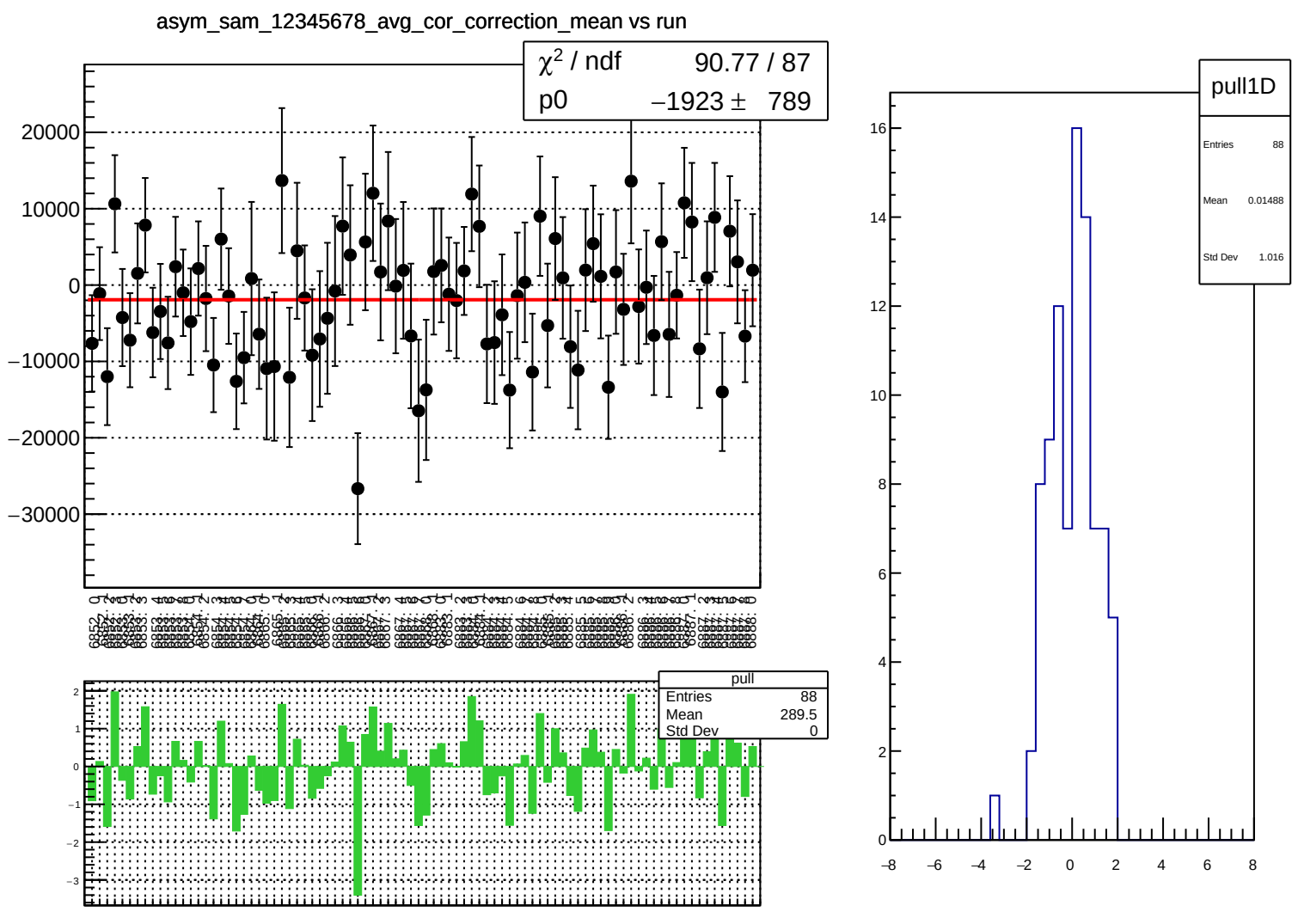
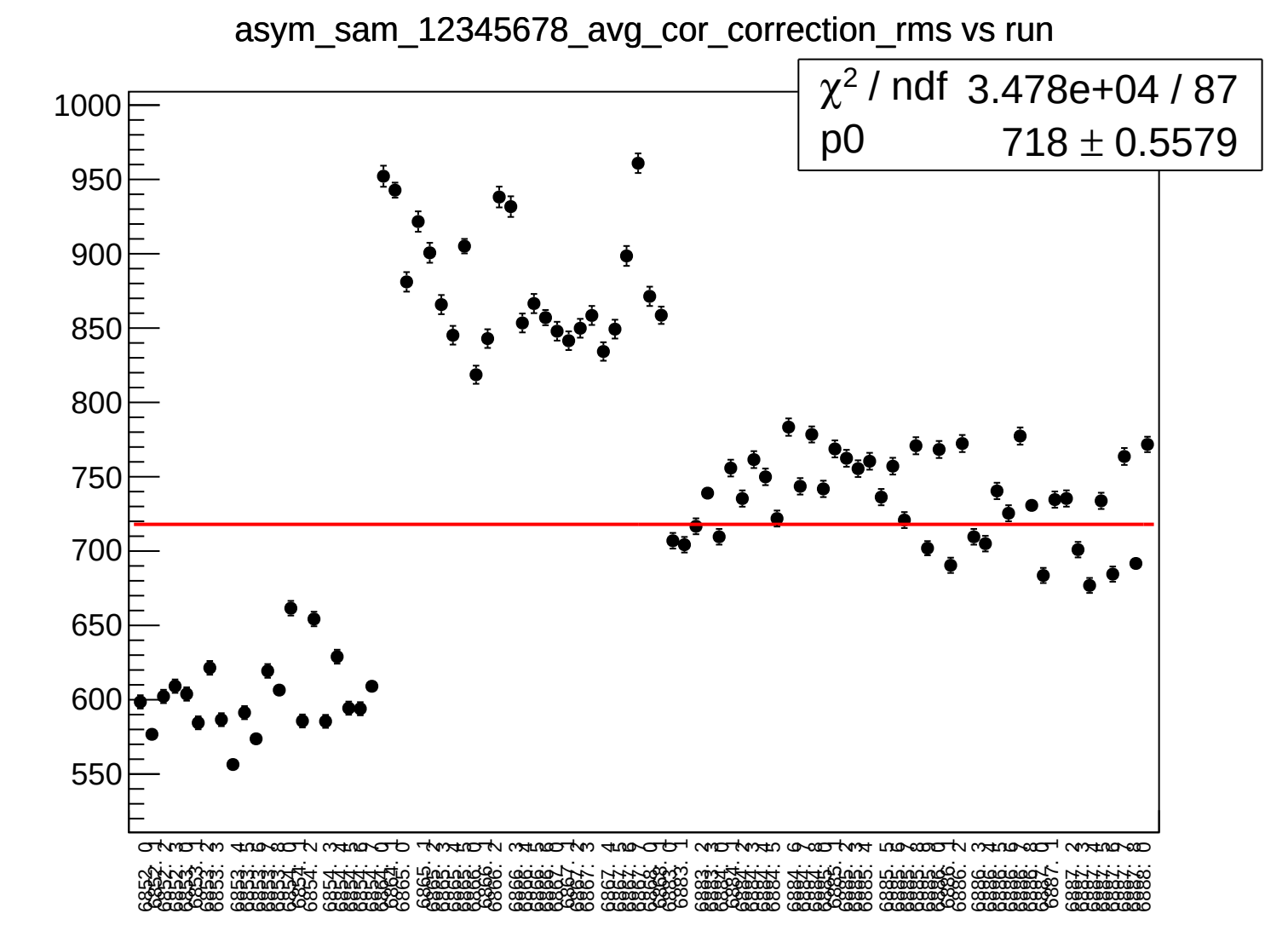
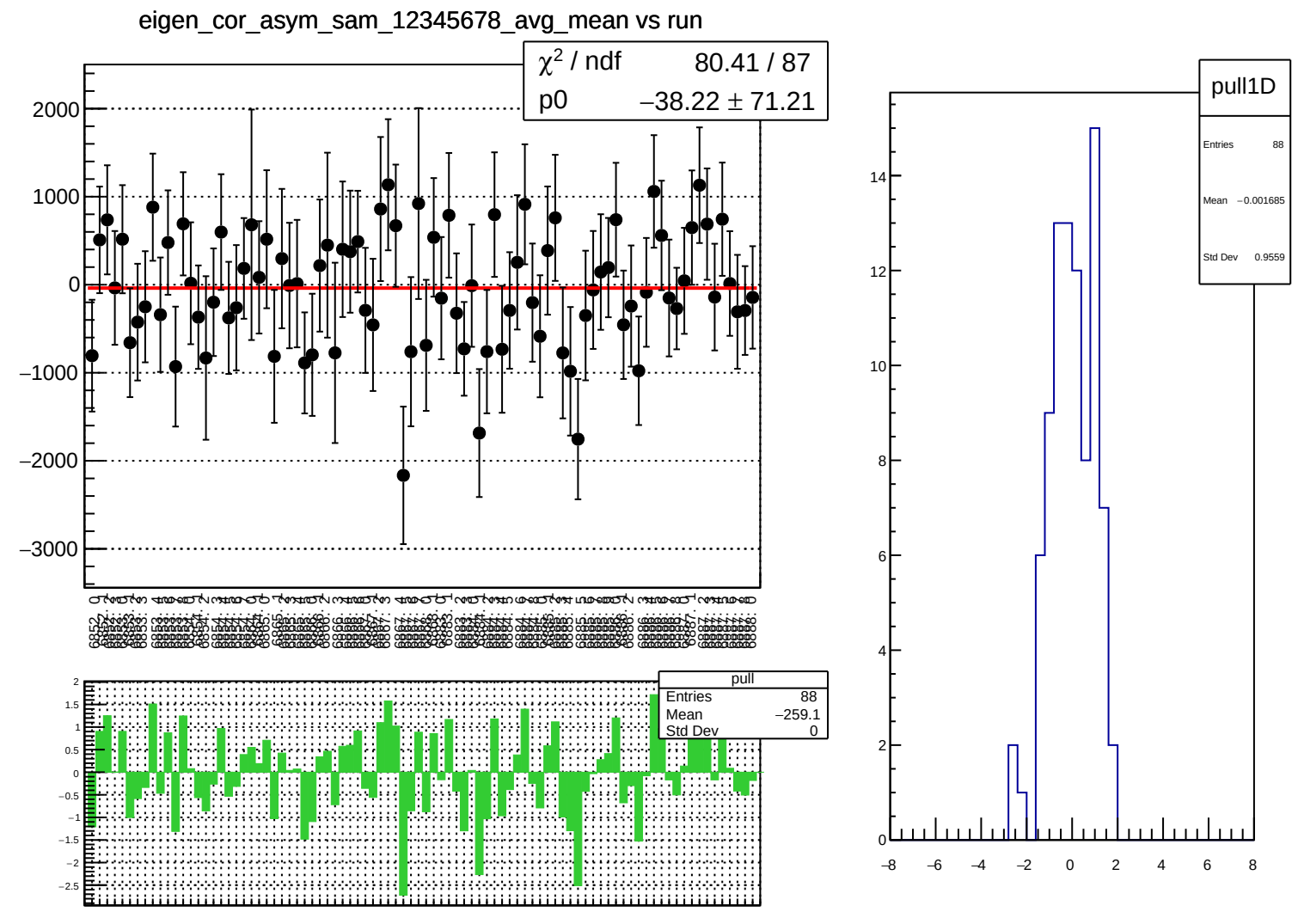
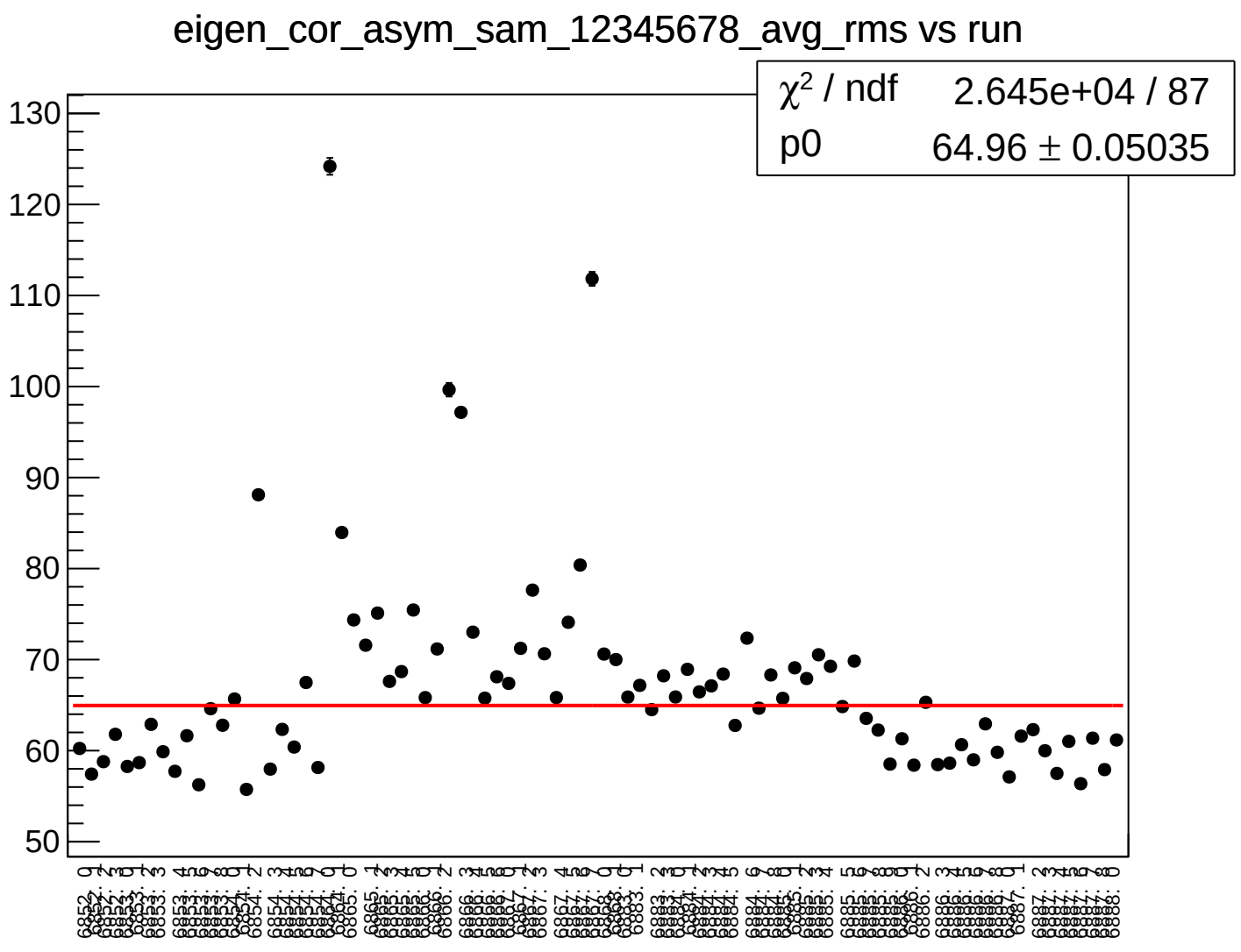
2
4
6
8

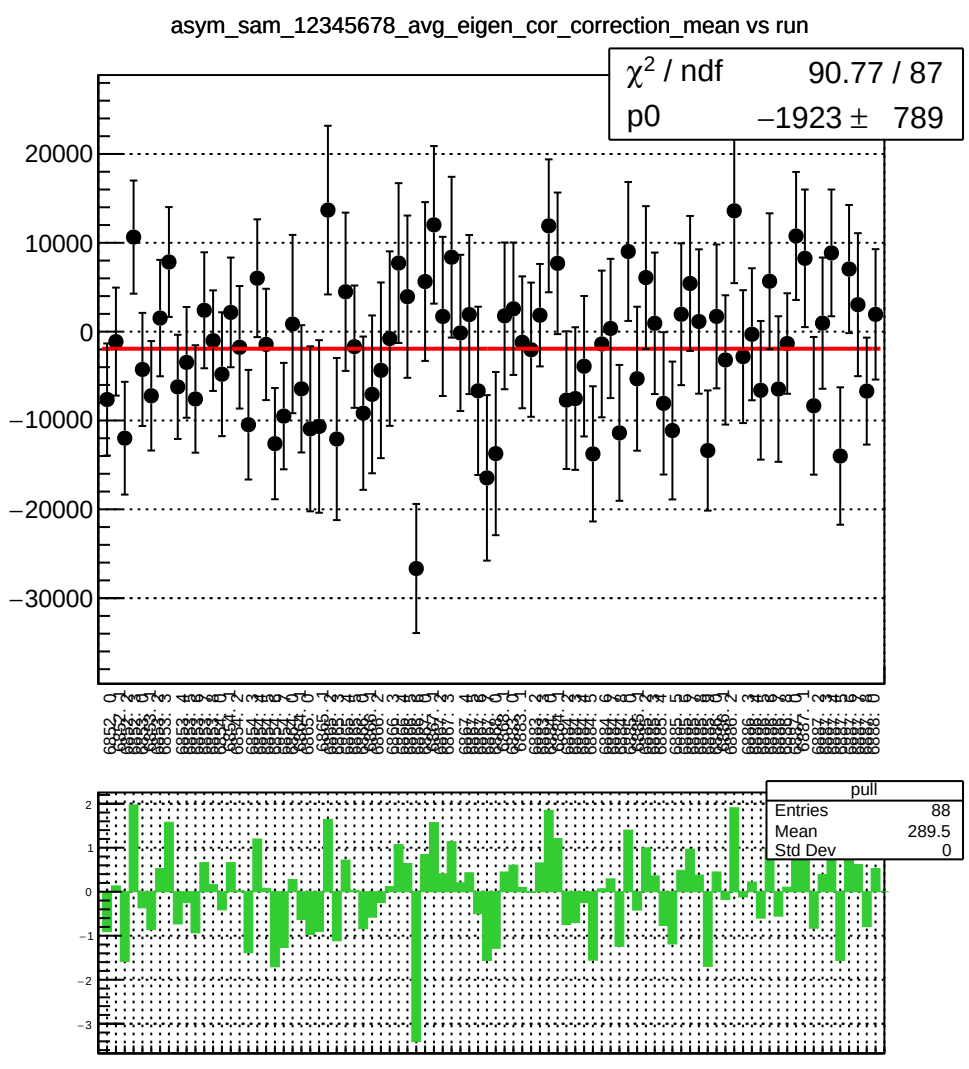

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.645e+04 / 87
p0 64.96 ± 0.05035
130
120
110
100
90
80
70
60
50

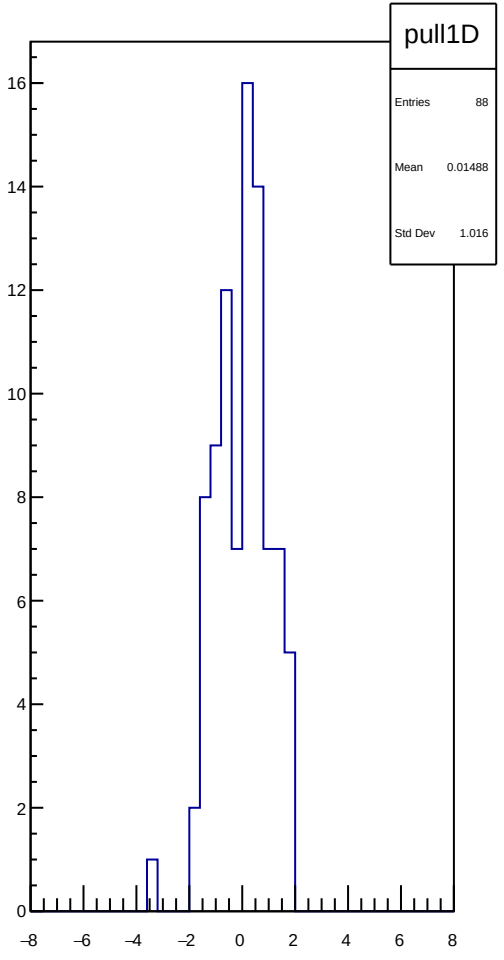

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 90.77 / 87
p0 −1923 ± 789
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 289.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.01488
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 3.478e+04 / 87
p0 718 ± 0.5579
1000
950
900
850
800
750
700
650
600
550


eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 80.41 / 87
p0 −38.22 ± 71.21
2000
1000
0
−1000
−2000
−3000
pull
Entries 88
Mean −259.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean −0.001685
Std Dev 0.9559
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.645e+04 / 87
p0 64.96 ± 0.05035
130
120
110
100
90
80
70
60
50


asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.77 / 87
p0 −1923 ± 789
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 289.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 88
Mean 0.01488
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
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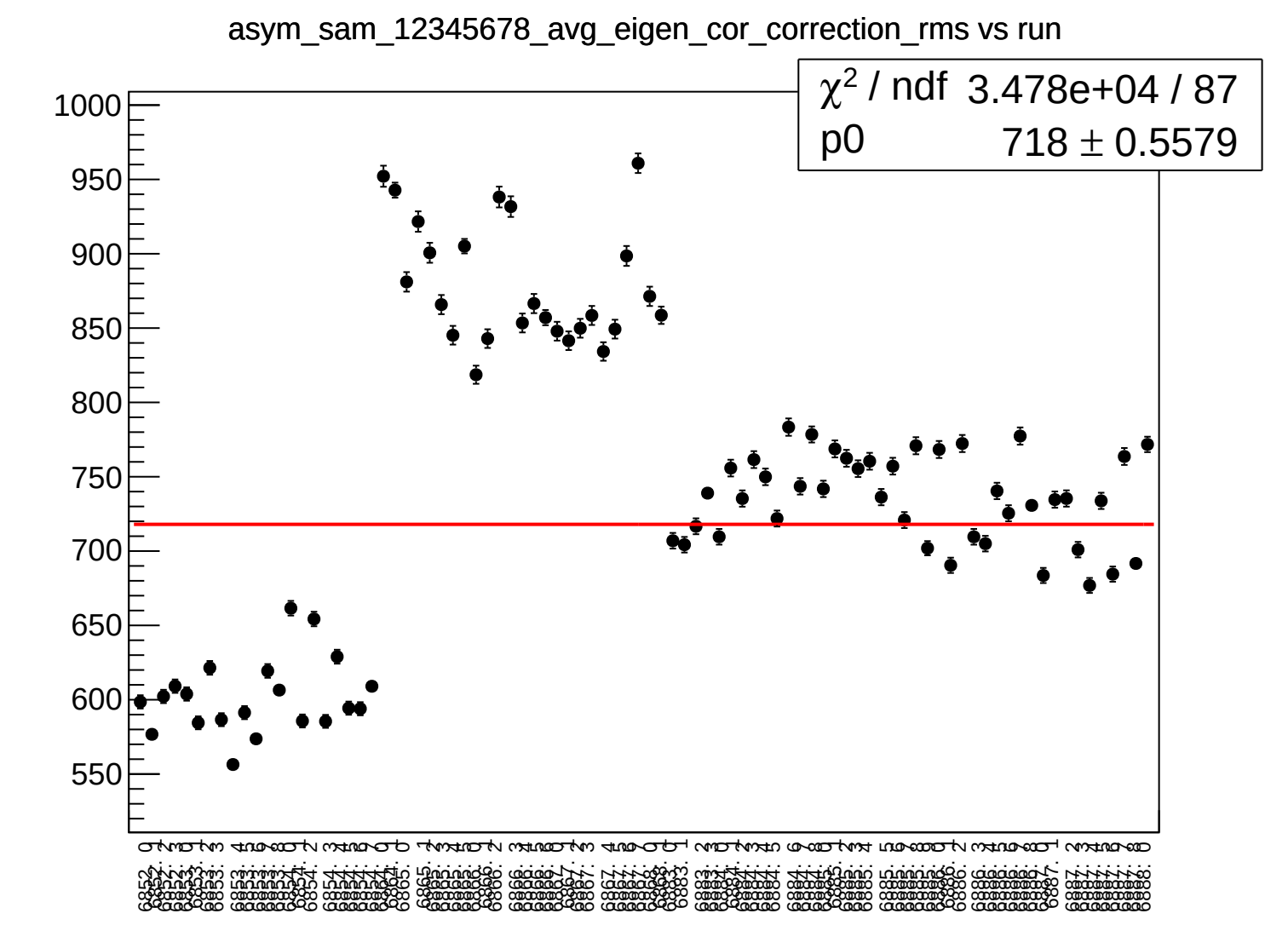
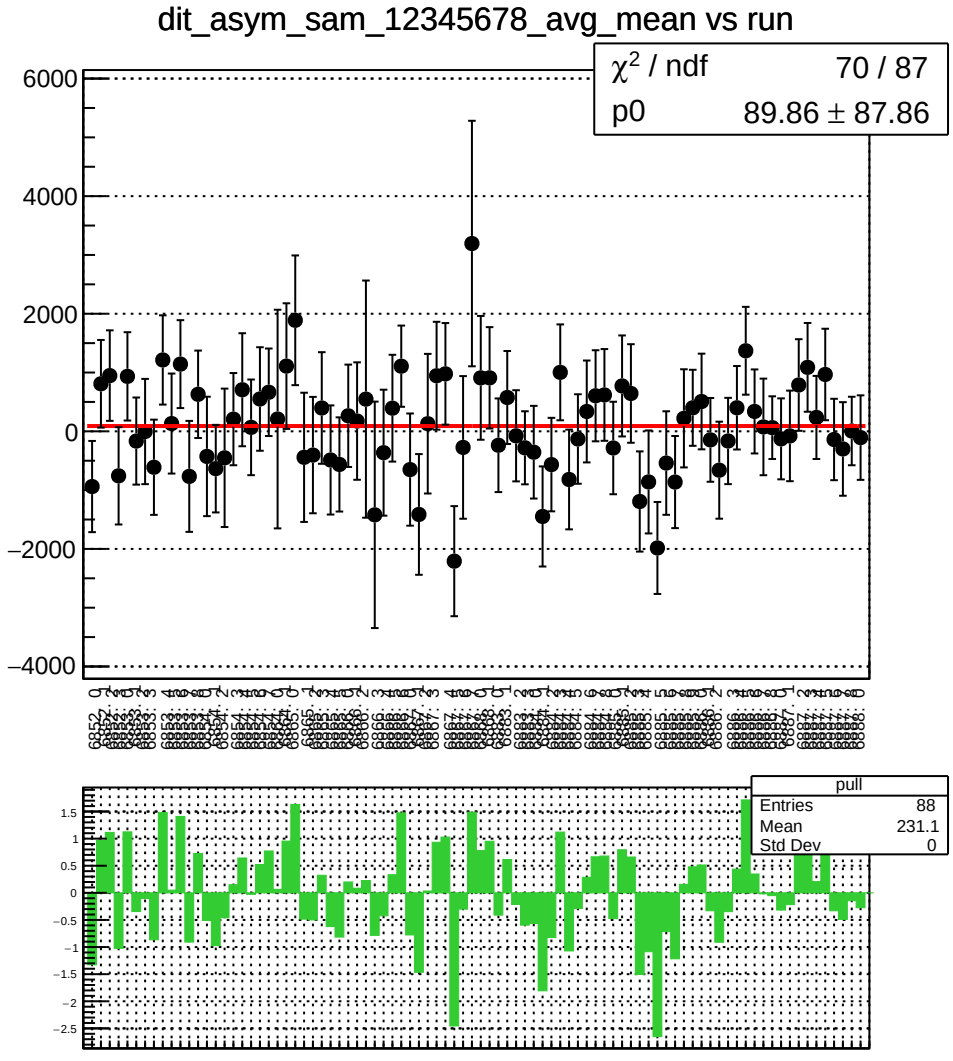
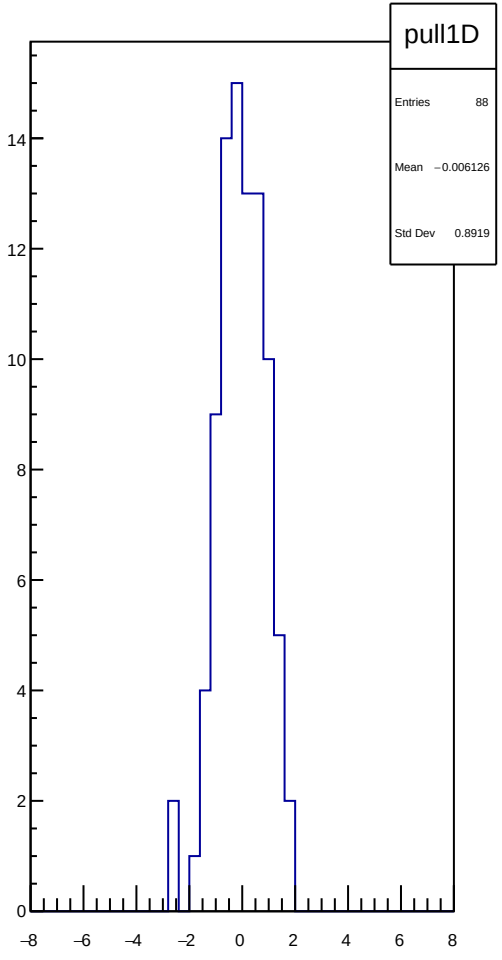
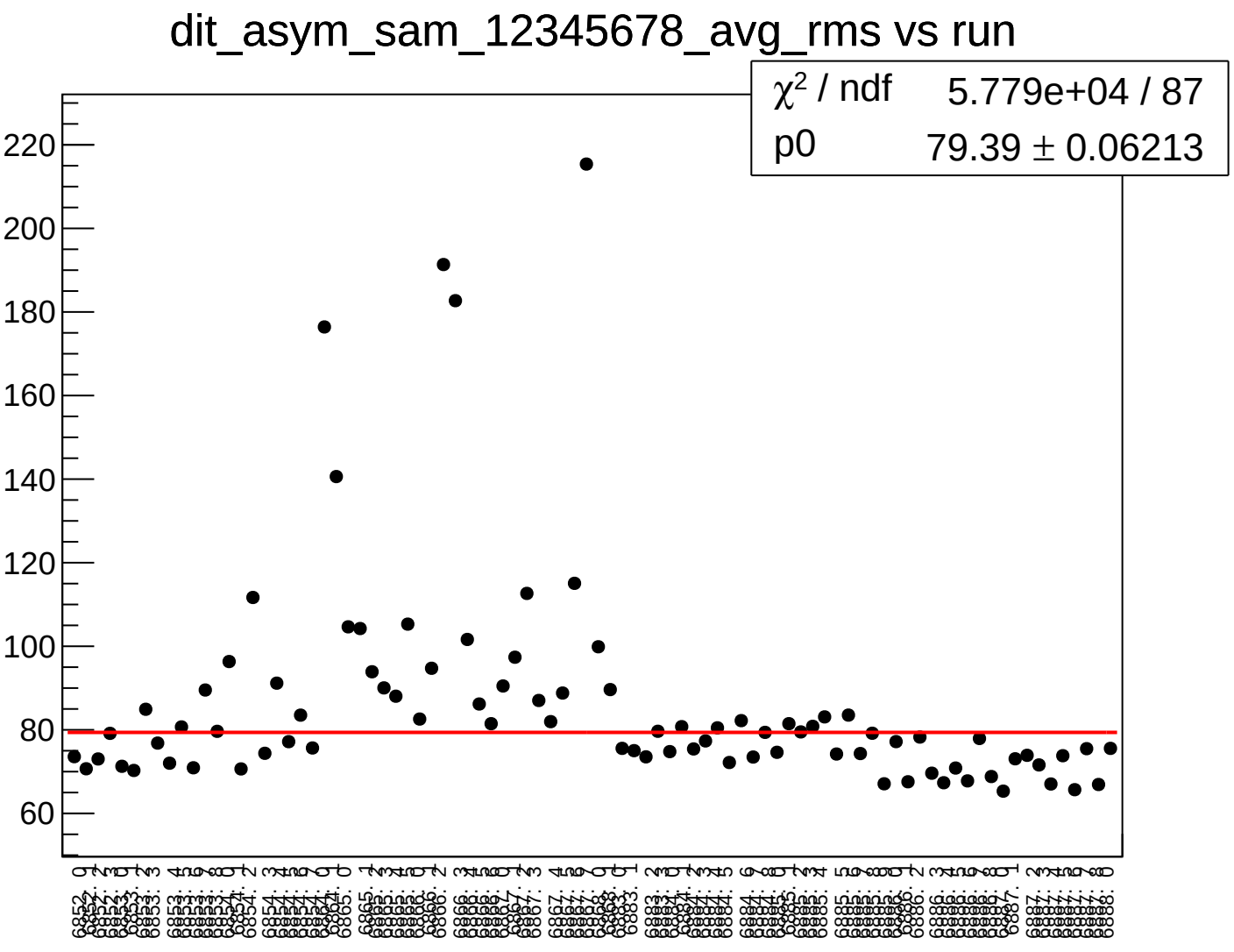
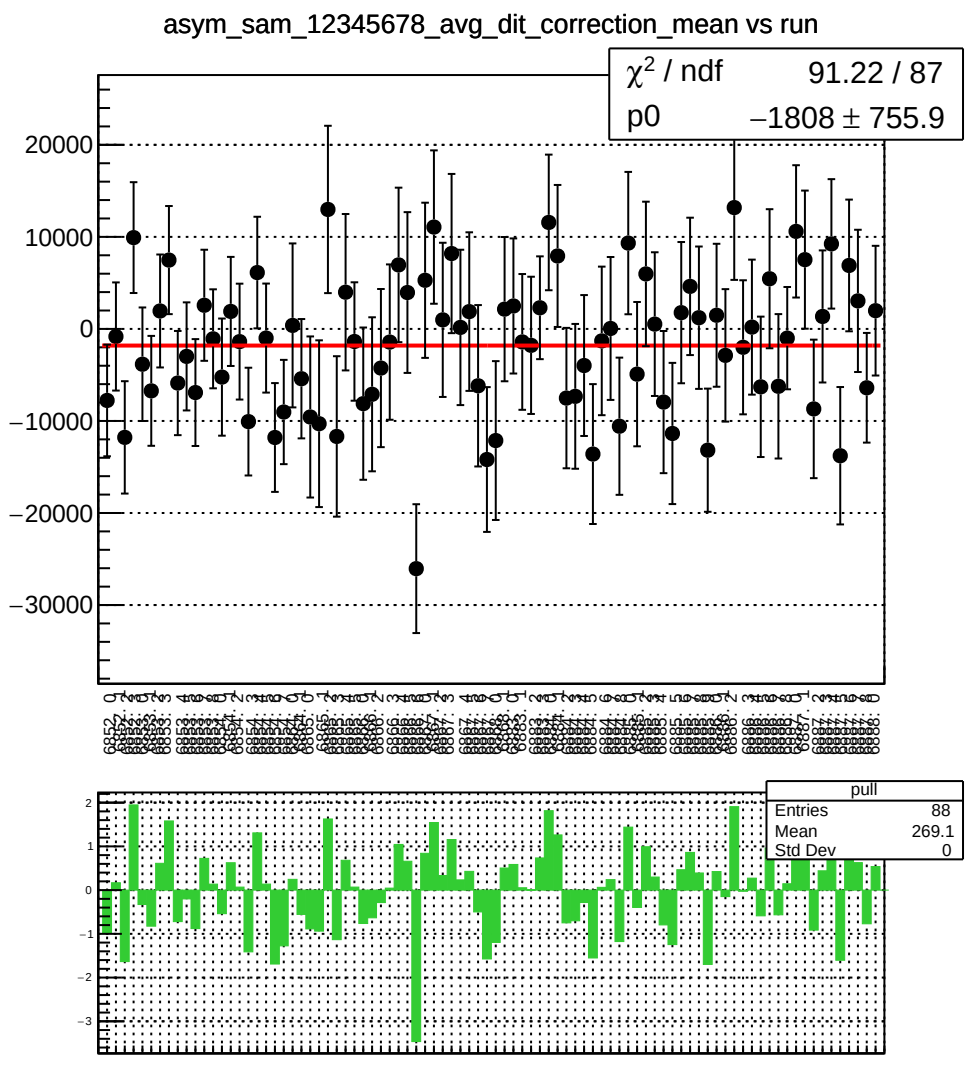
2
4
6
8

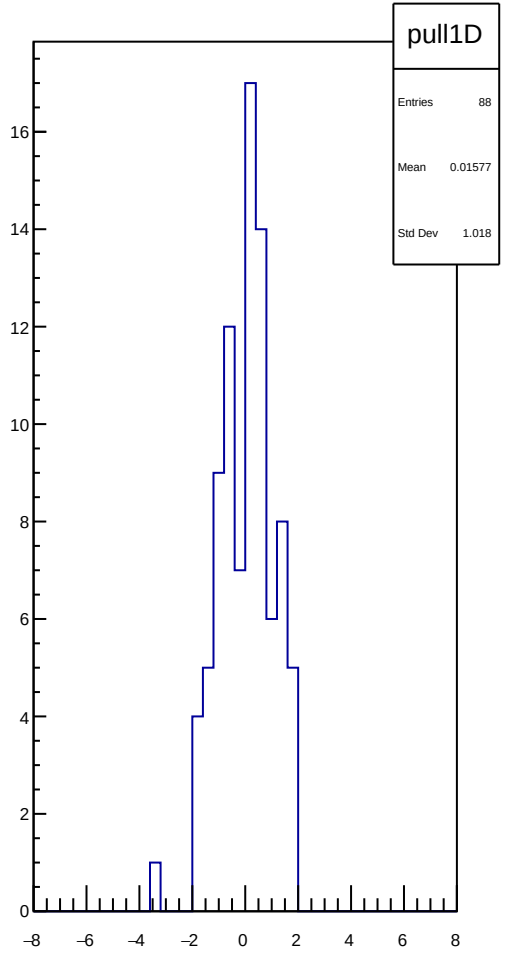

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.478e+04 / 87
p0 718 ± 0.5579
1000
950
900
850
800
750
700
650
600
550

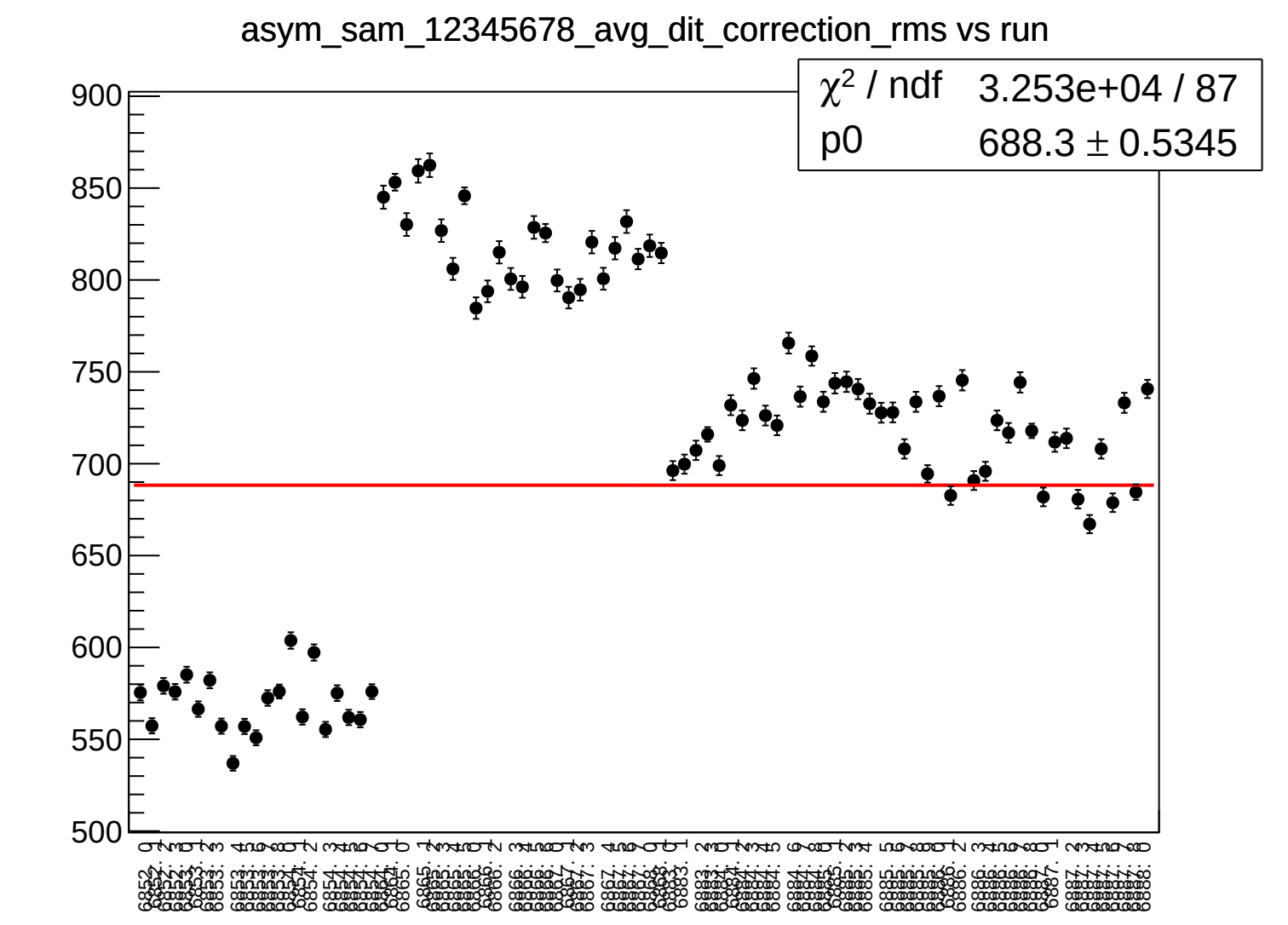

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 70 / 87
p0 89.86 ± 87.86
pull
Entries 88
Mean 231.1
Std Dev 0

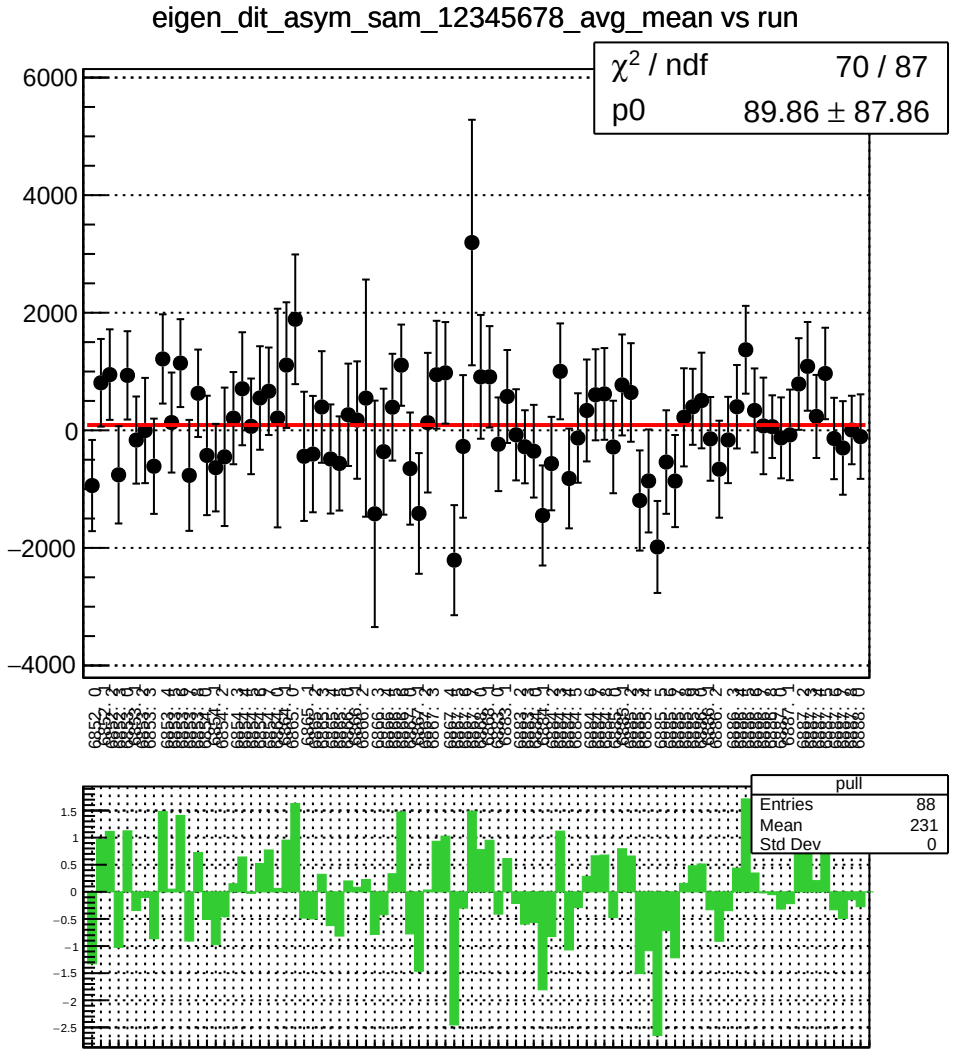

pull1D
Entries 88
Mean −0.006126
Std Dev 0.8919

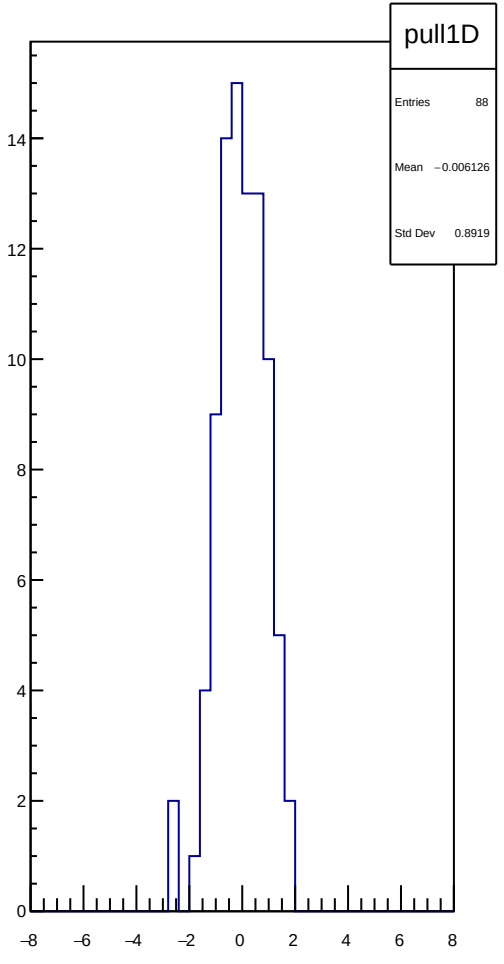

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 5.779e+04 / 87
p0 79.39 ± 0.06213
220
200
180
160
140
120
100
80
60

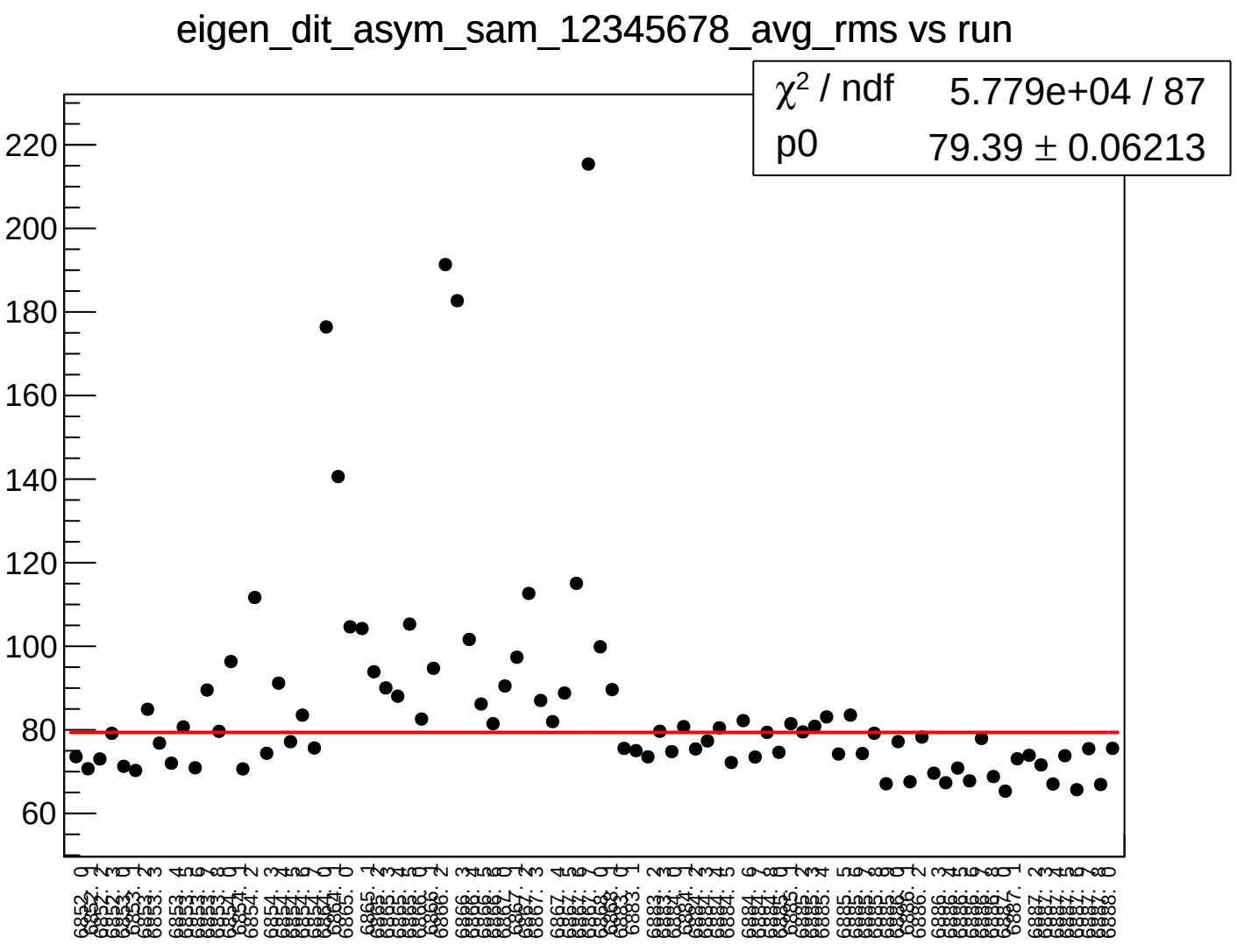

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 91.22 / 87
p0 −1808 ± 755.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 269.1
Std Dev 0
2
1
0
−1
−2
−3

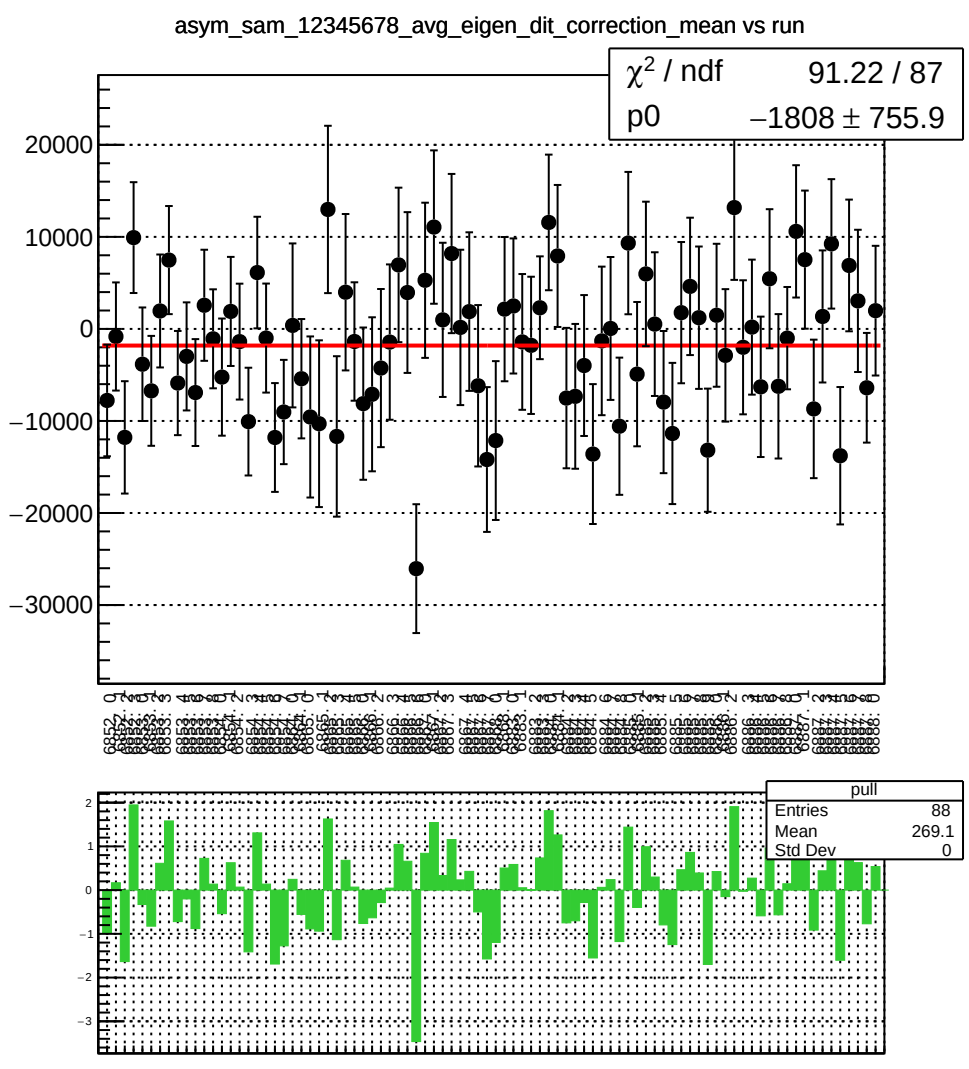

pull1D
Entries 88
Mean 0.01577
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

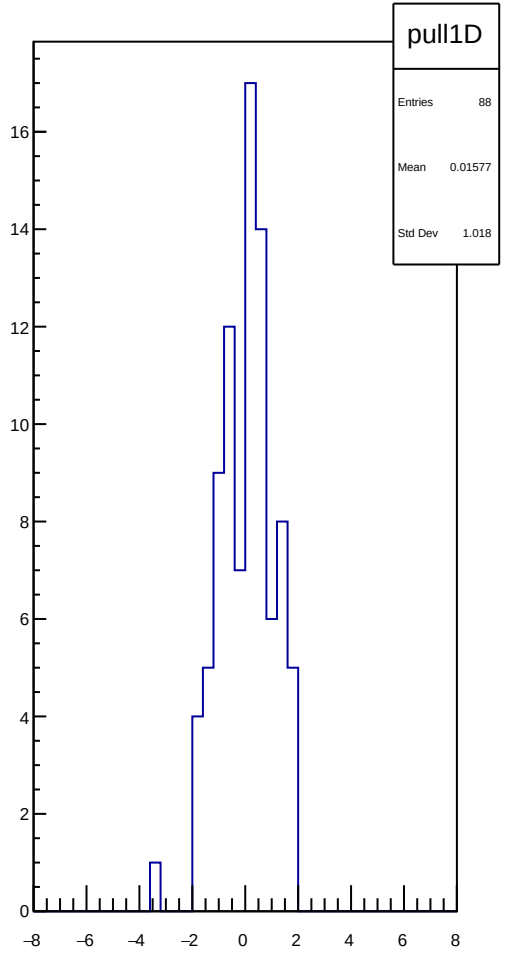

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 3.253e+04 / 87
p0 688.3 ± 0.5345
900
850
800
750
700
650
600
550
500

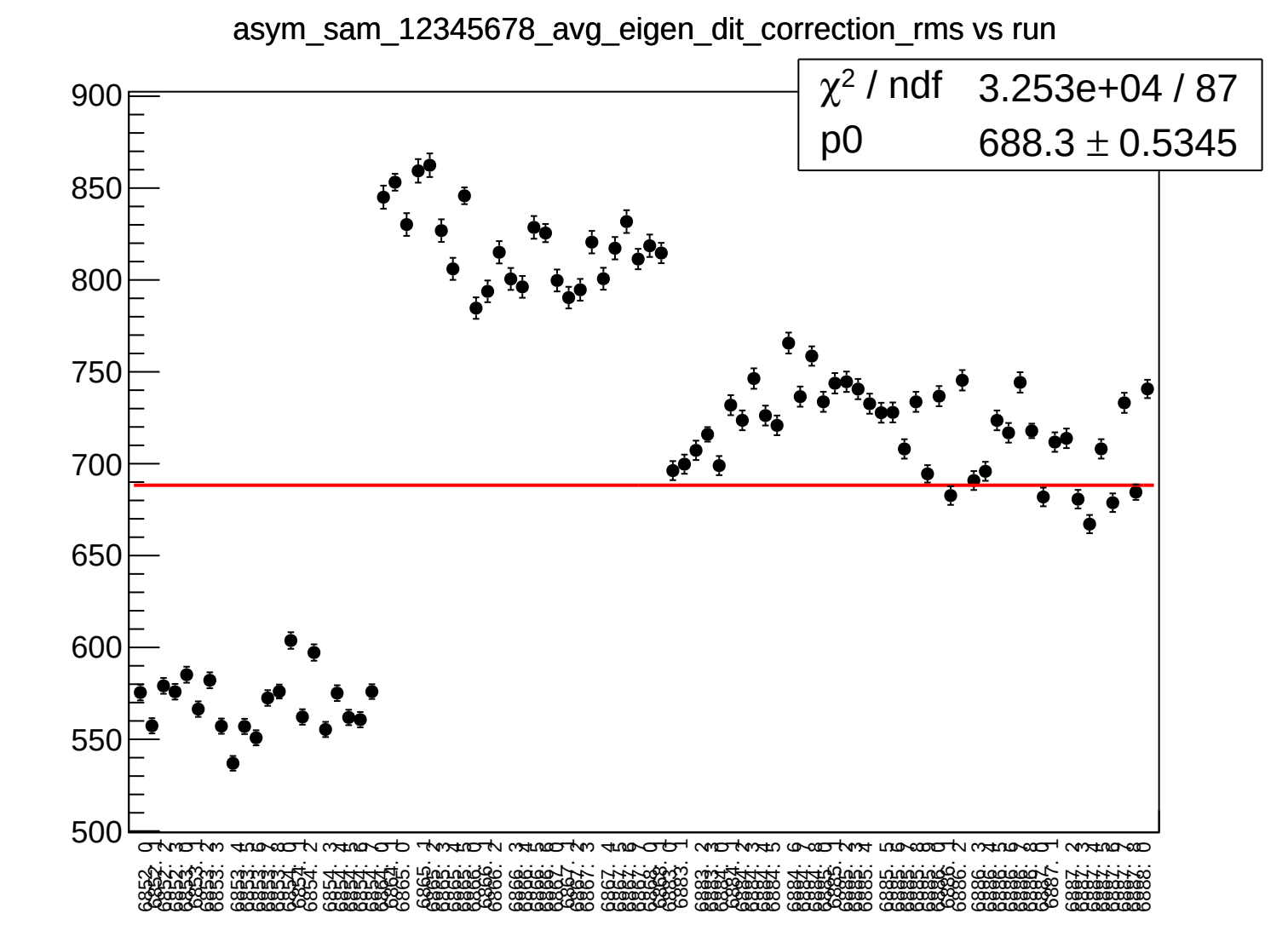

eigen_dit_asym_sam_12345678_avg_mean vs run
χ^2 / ndf 70 / 87
p0 89.86 ± 87.86
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean 231
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

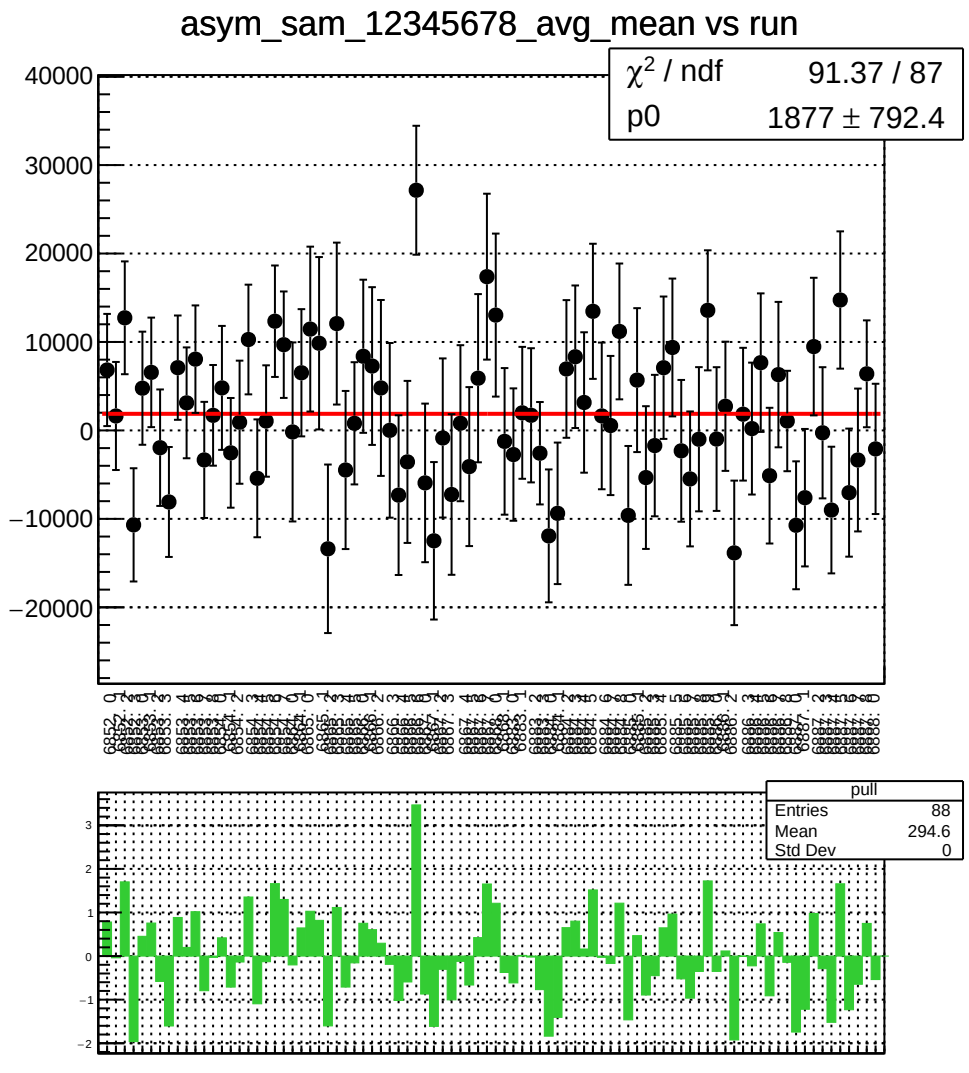

pull1D
Entries 88
Mean −0.006126
Std Dev 0.8919
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

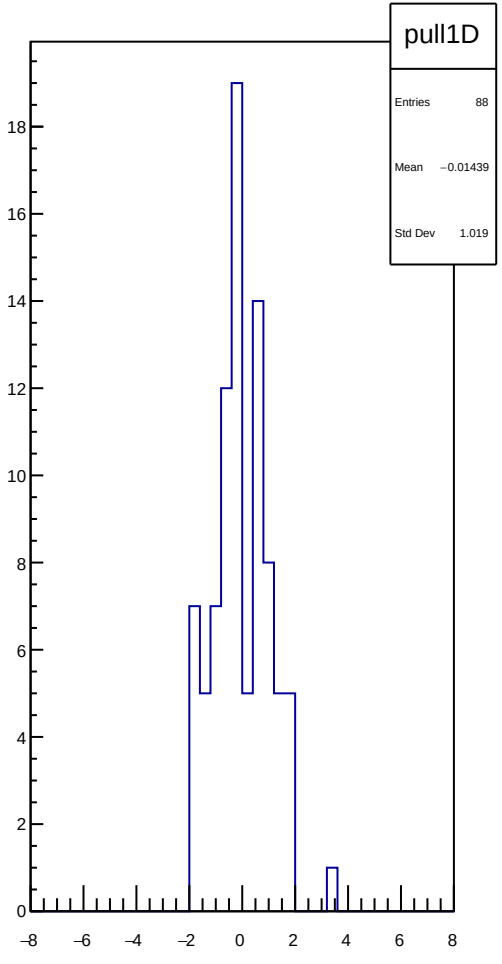

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 5.779e+04 / 87
p0 79.39 ± 0.06213
220
200
180
160
140
120
100
80
60

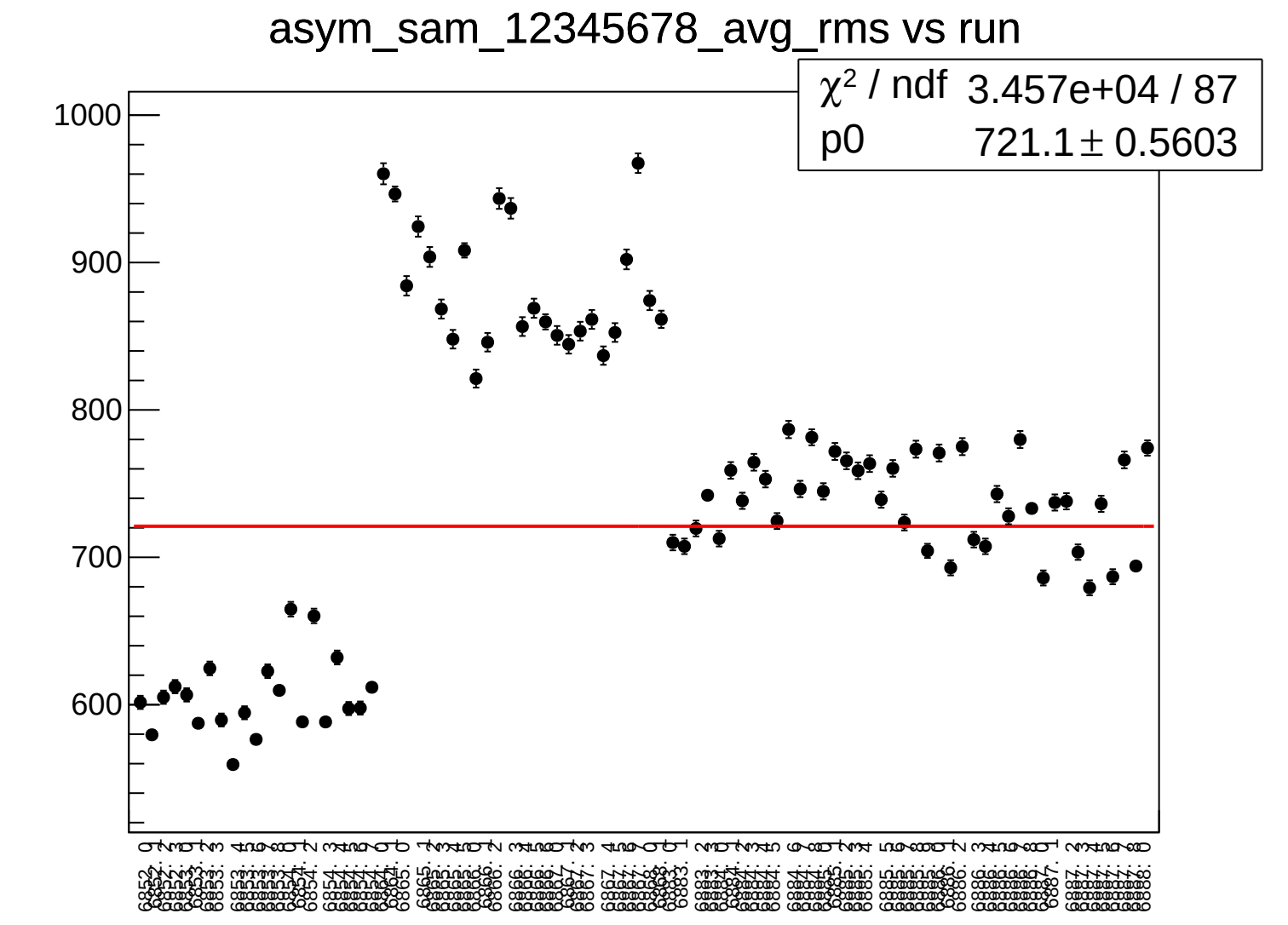

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.22 / 87
p0 −1808 ± 755.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 88
Mean 269.1
Std Dev 0
2
1
0
−1
−2
−3

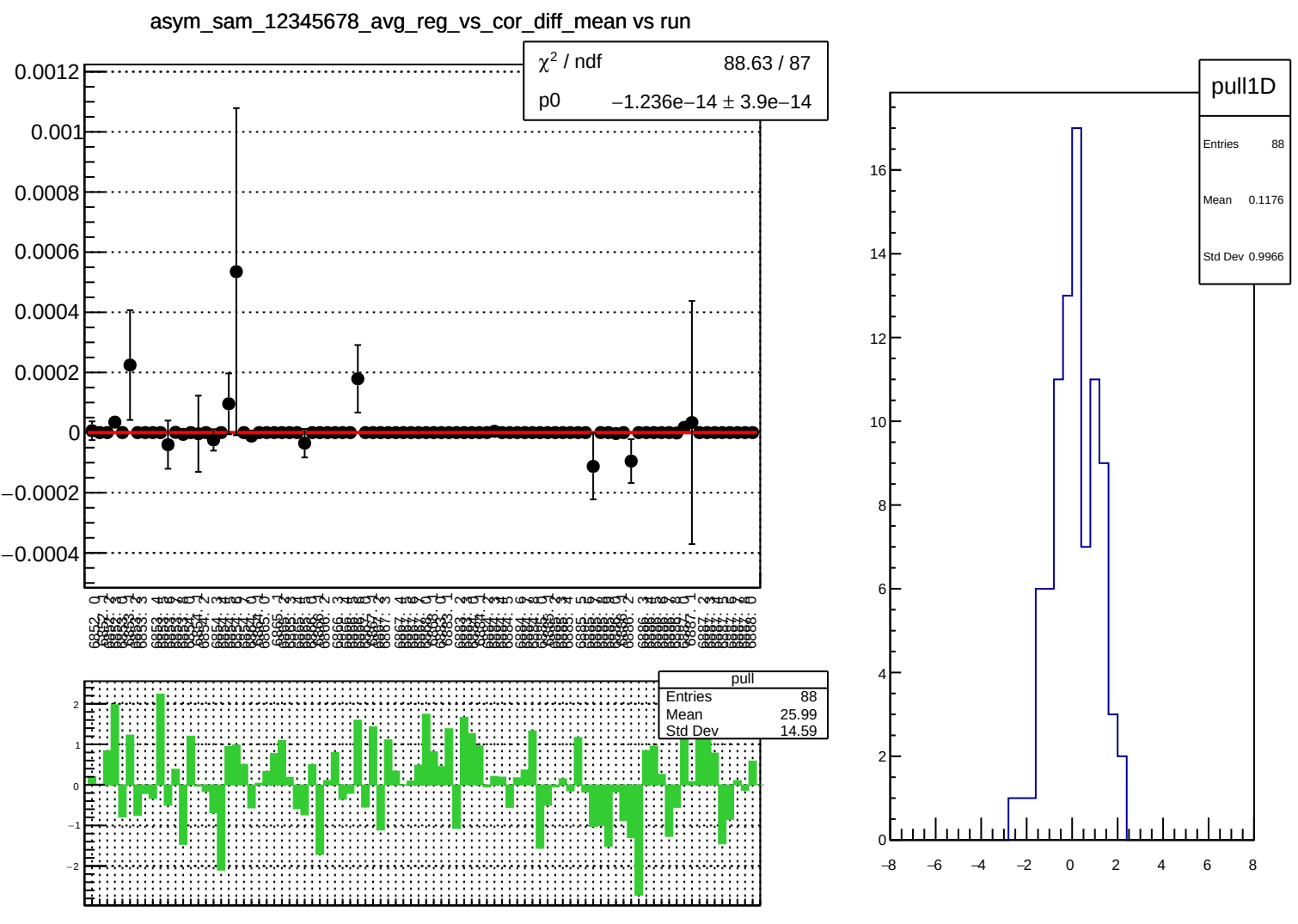

pull1D
Entries 88
Mean 0.01577
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

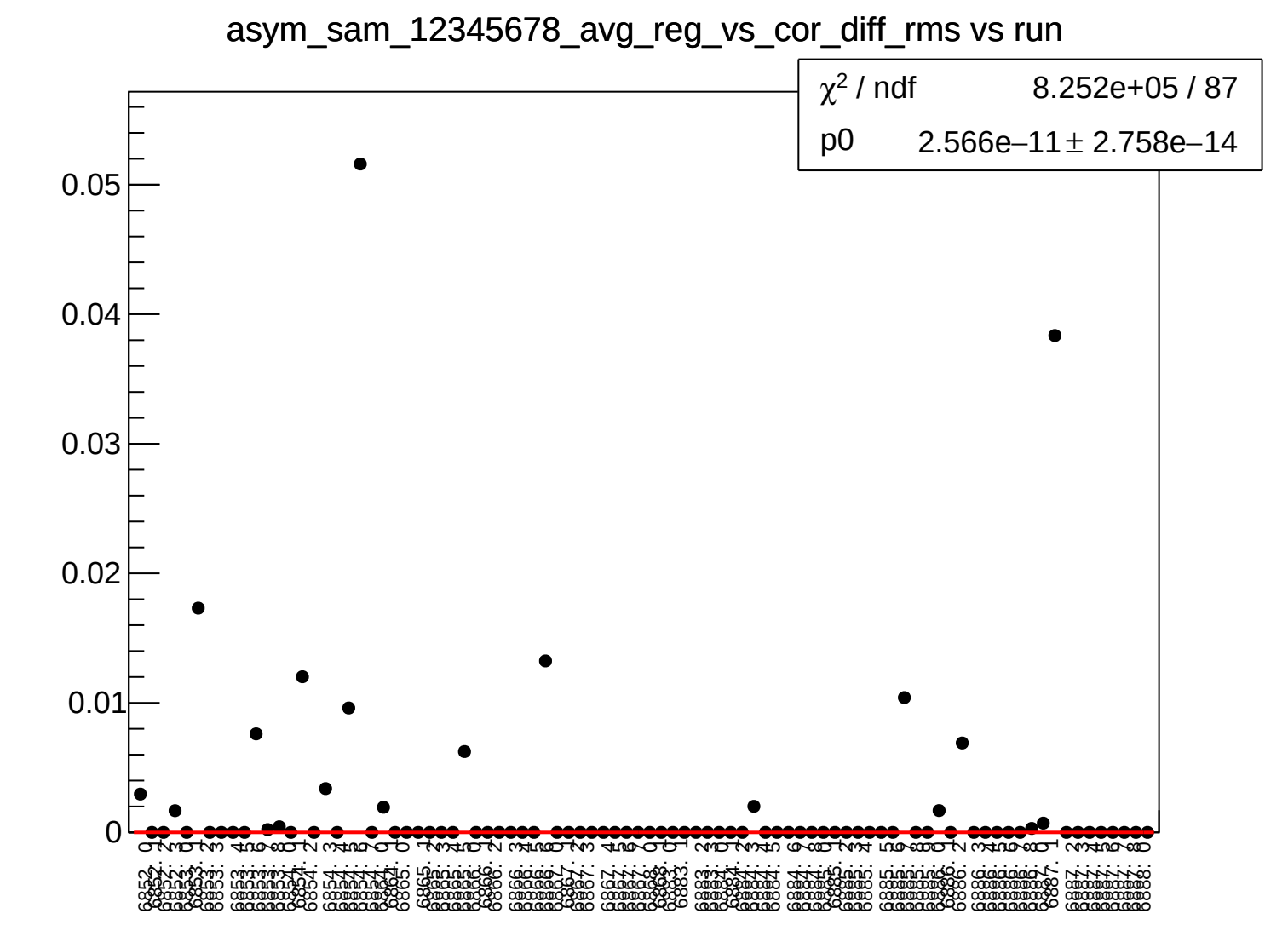

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.253e+04 / 87
p0 688.3 ± 0.5345
900
850
800
750
700
650
600
550
500

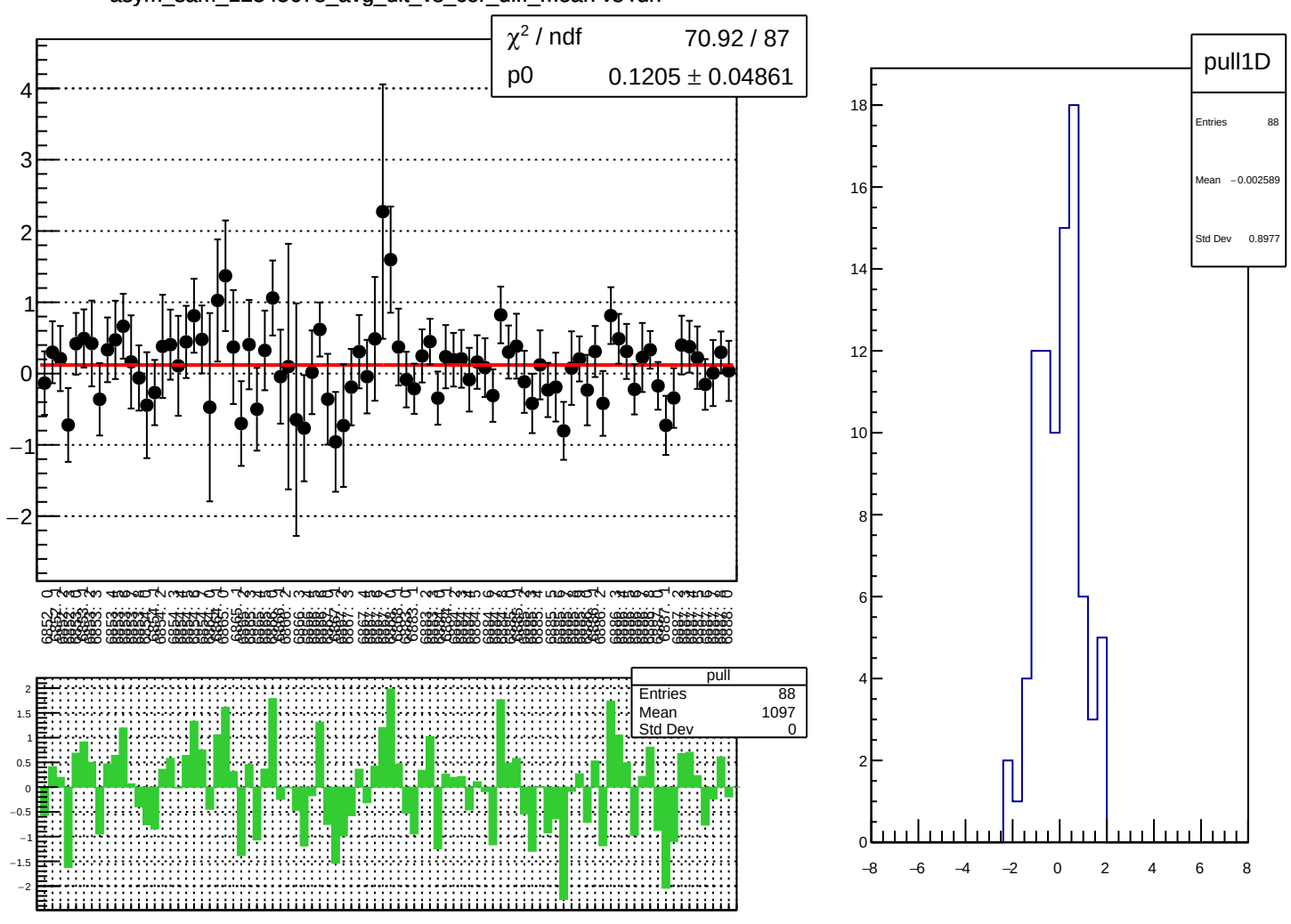

asym_sam_12345678_avg_mean vs run
χ² / ndf 91.37 / 87
p0 1877 ± 792.4
pull
Entries 88
Mean 294.6
Std Dev 0

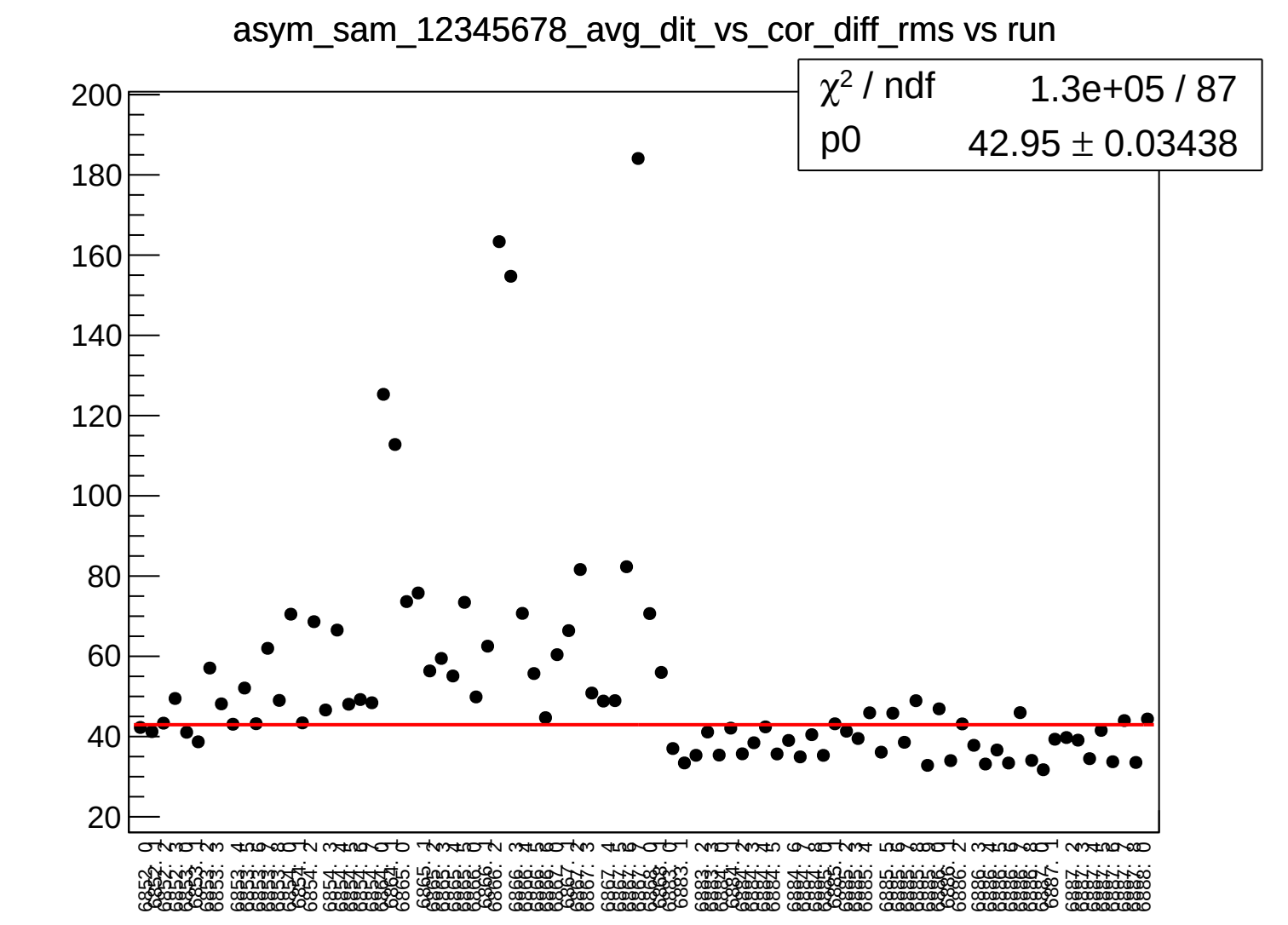

pull1D
Entries 88
Mean −0.01439
Std Dev 1.019

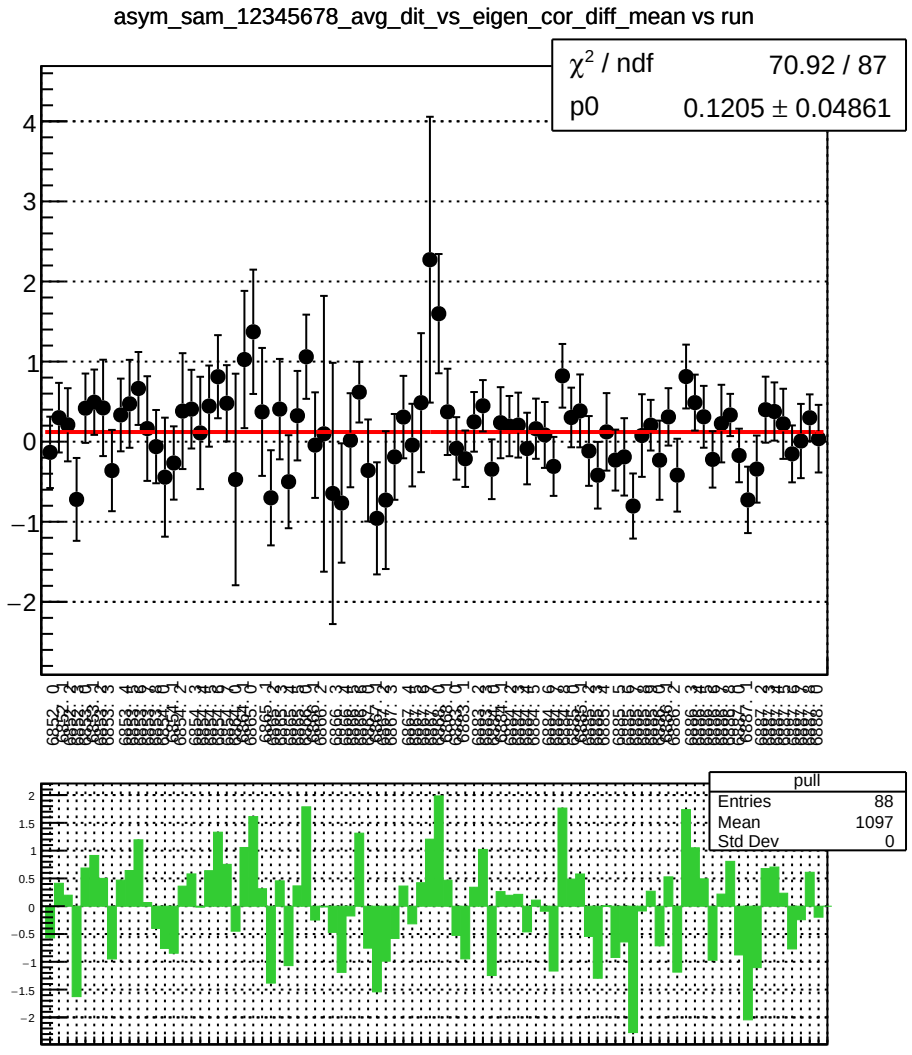

asym_sam_12345678_avg_rms vs run
χ² / ndf 3.457e+04 / 87
p0 721.1 ± 0.5603
1000
900
800
700
600

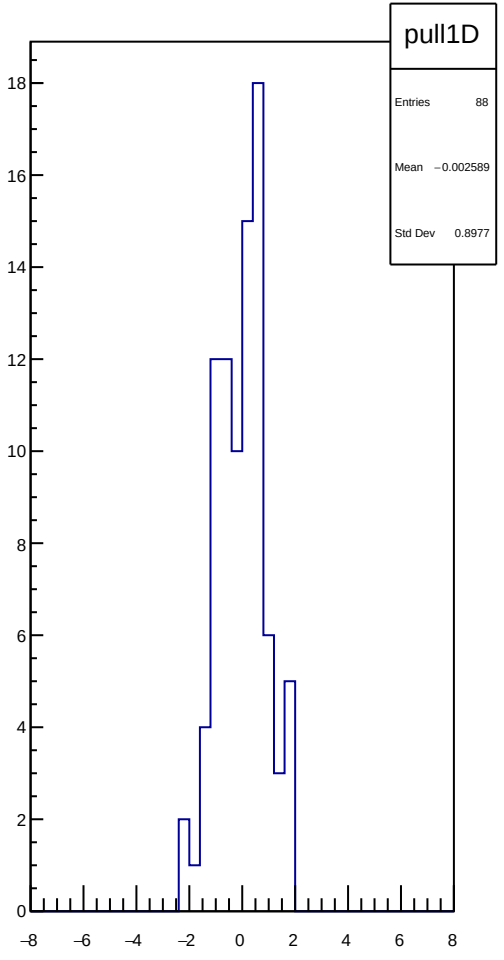

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.63 / 87
p0 −1.236e−14 ± 3.9e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 88
Mean 25.99
Std Dev 14.59
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.1176
Std Dev 0.9966
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

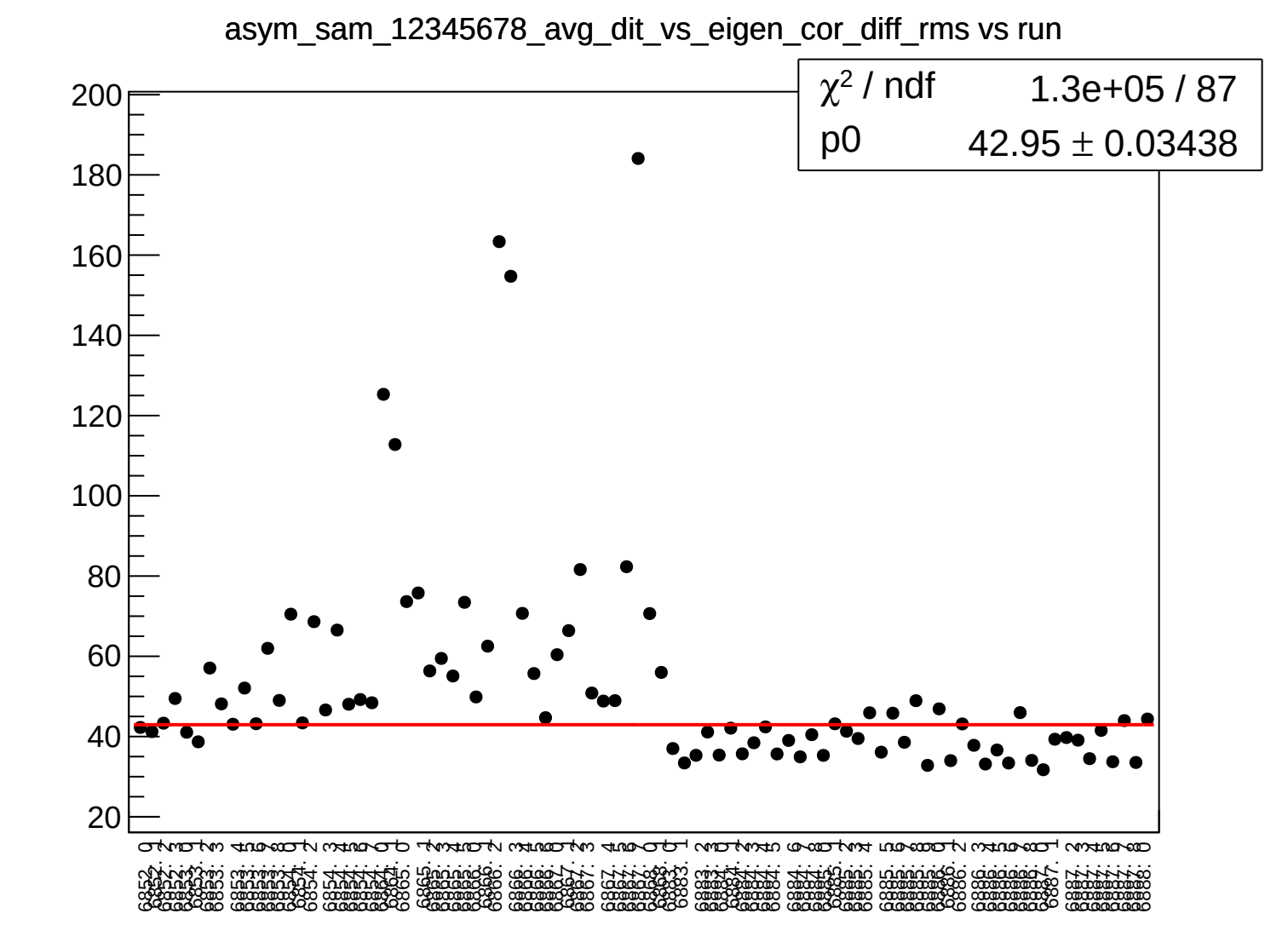

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.252e+05 / 87
p0 2.566e−11 ± 2.758e−14
0.05
0.04
0.03
0.02
0.01
0

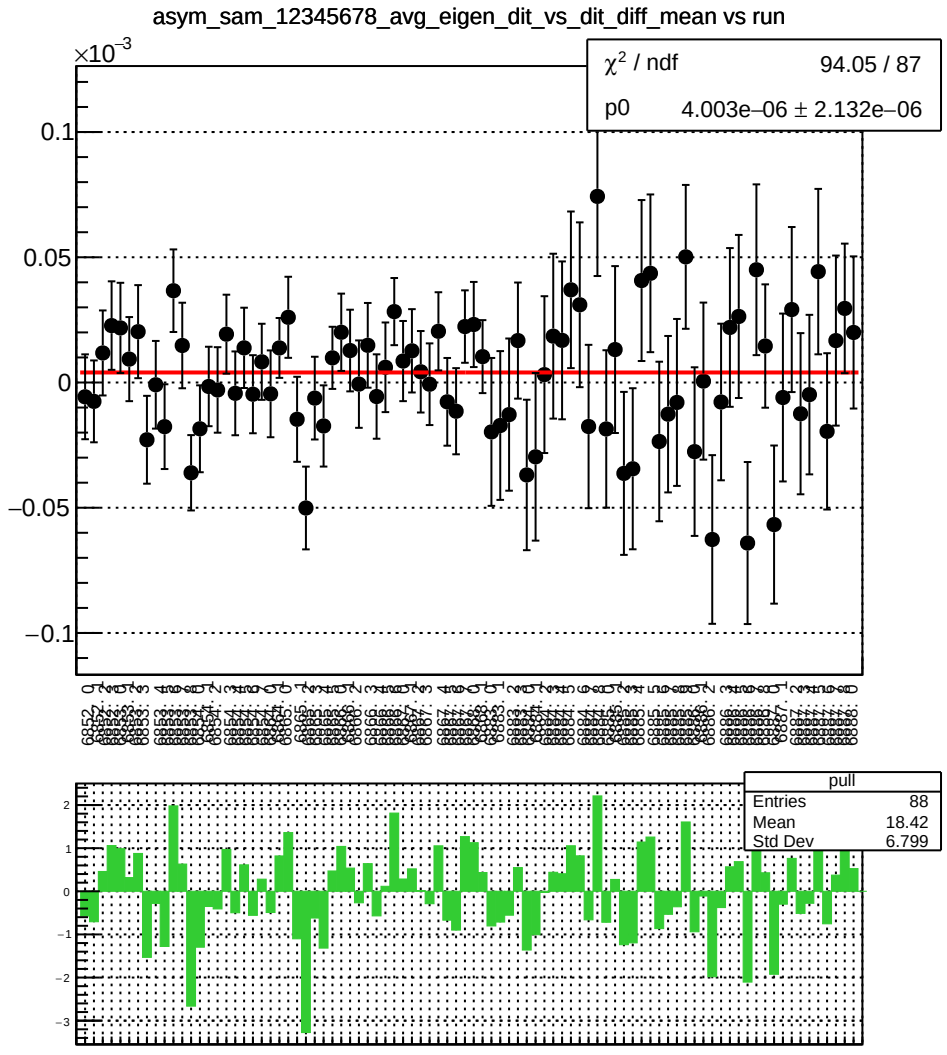

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.92 / 87
p0 0.1205 ± 0.04861
pull
Entries 88
Mean 1097
Std Dev 0
pull1D
Entries 88
Mean −0.002589
Std Dev 0.8977

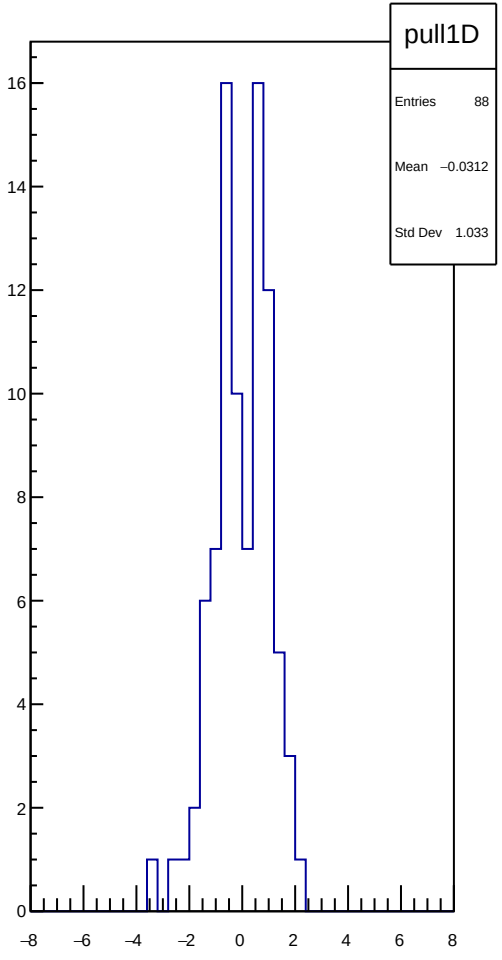

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.3e+05 / 87
p0 42.95 ± 0.03438
200
180
160
140
120
100
80
60
40
20

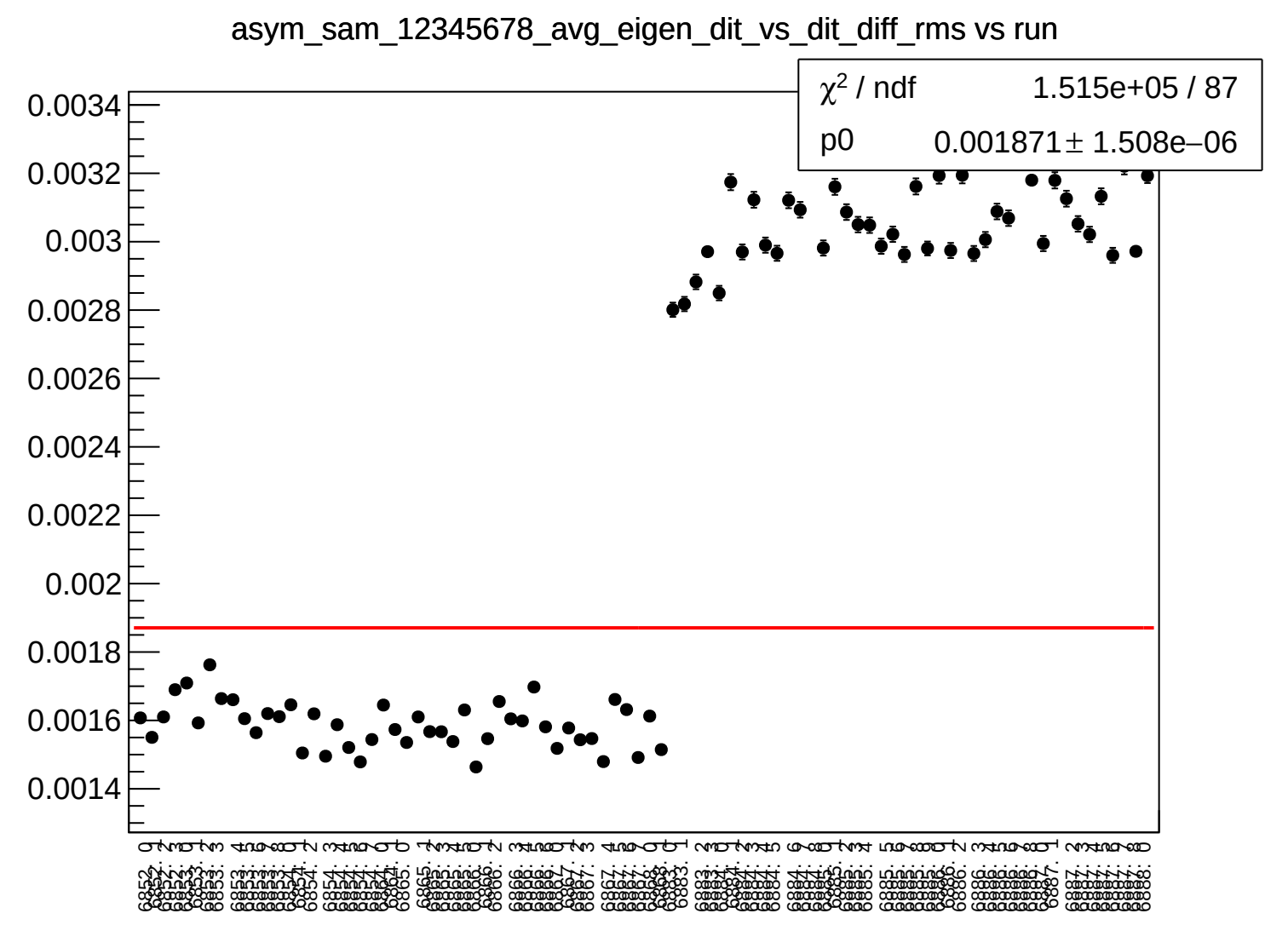

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.92 / 87
p0 0.1205 ± 0.04861
pull
Entries 88
Mean 1097
Std Dev 0

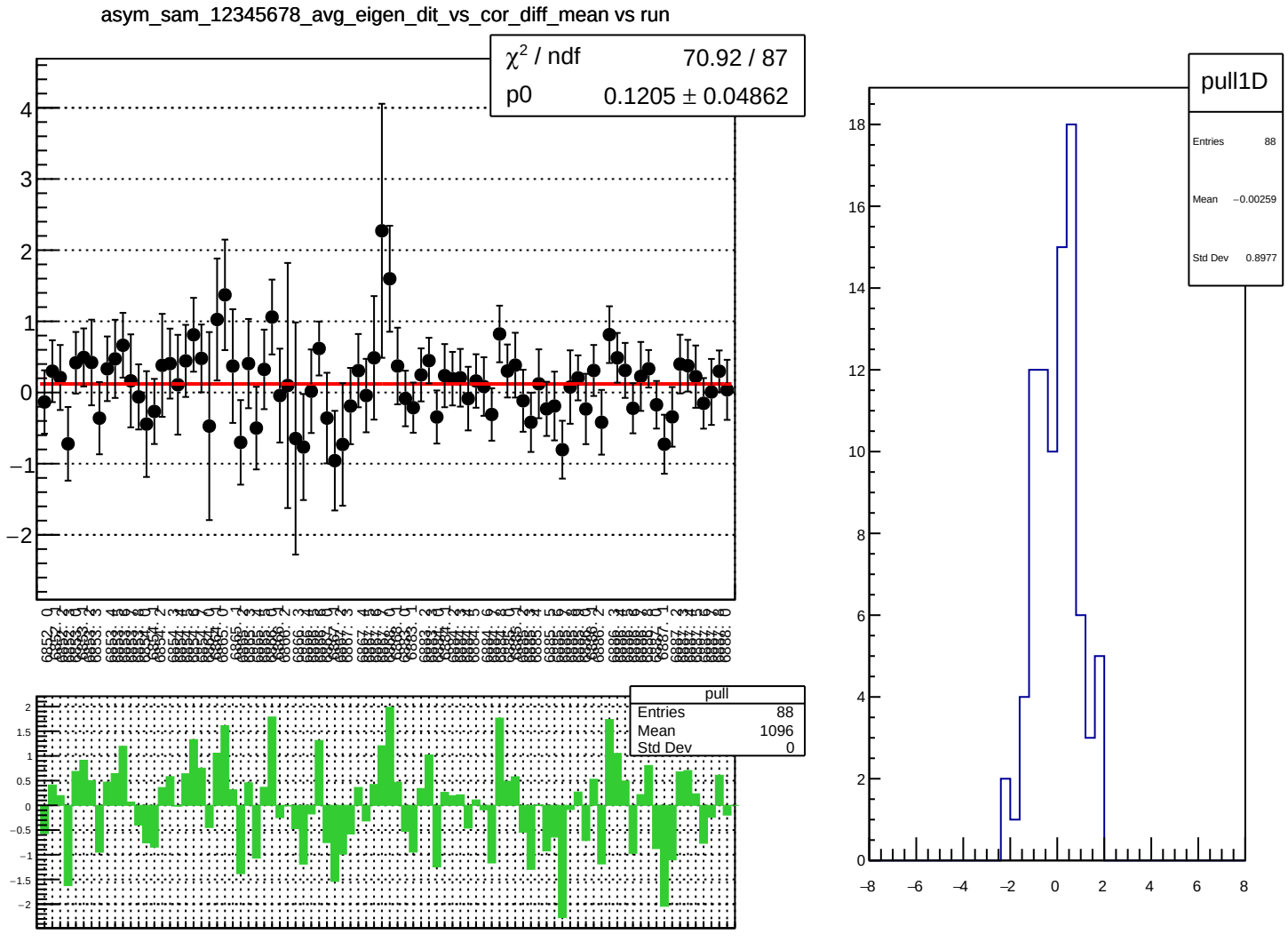

pull1D
Entries 88
Mean −0.002589
Std Dev 0.8977

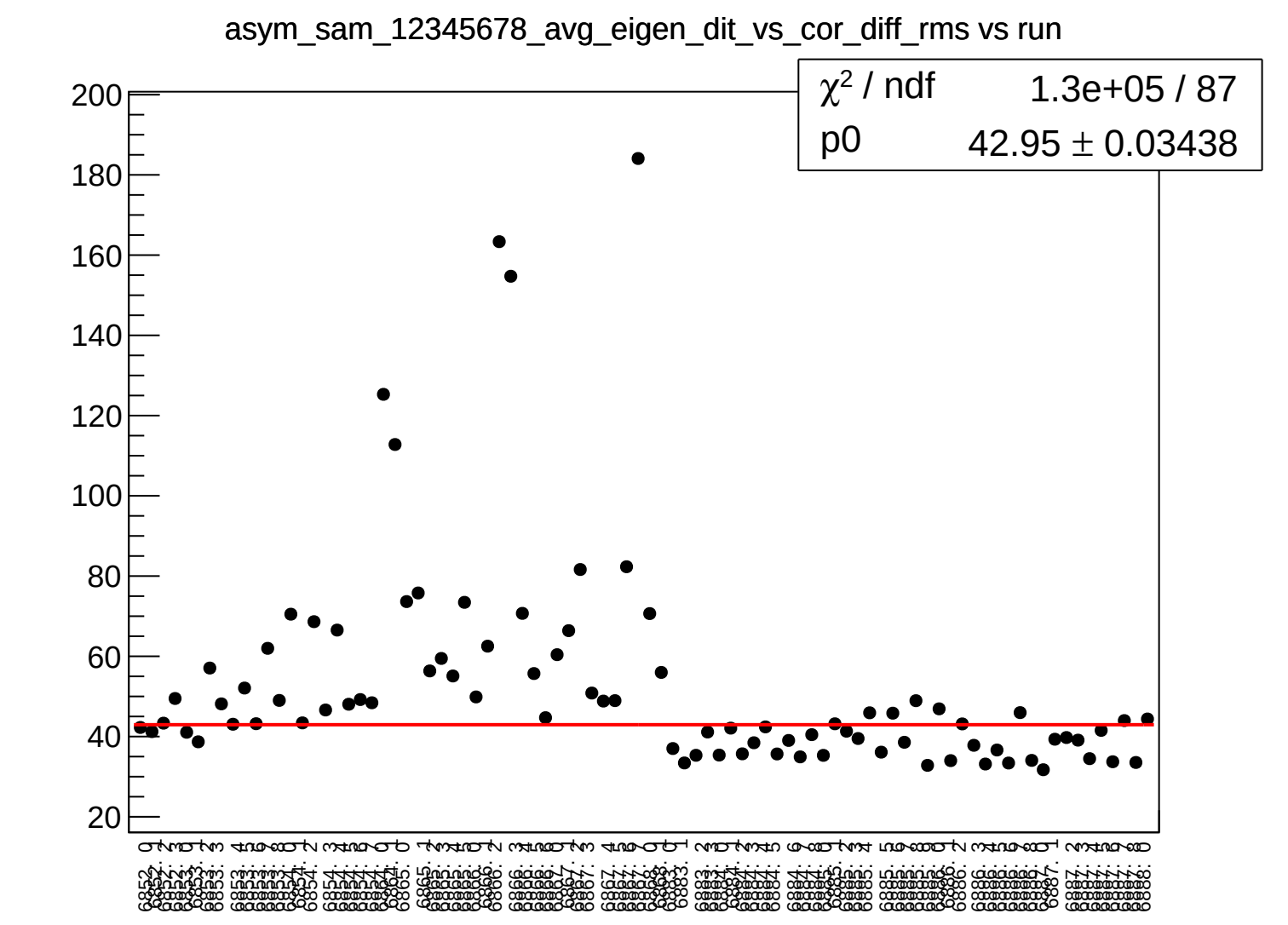

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.3e+05 / 87
p0 42.95 ± 0.03438
200
180
160
140
120
100
80
60
40
20

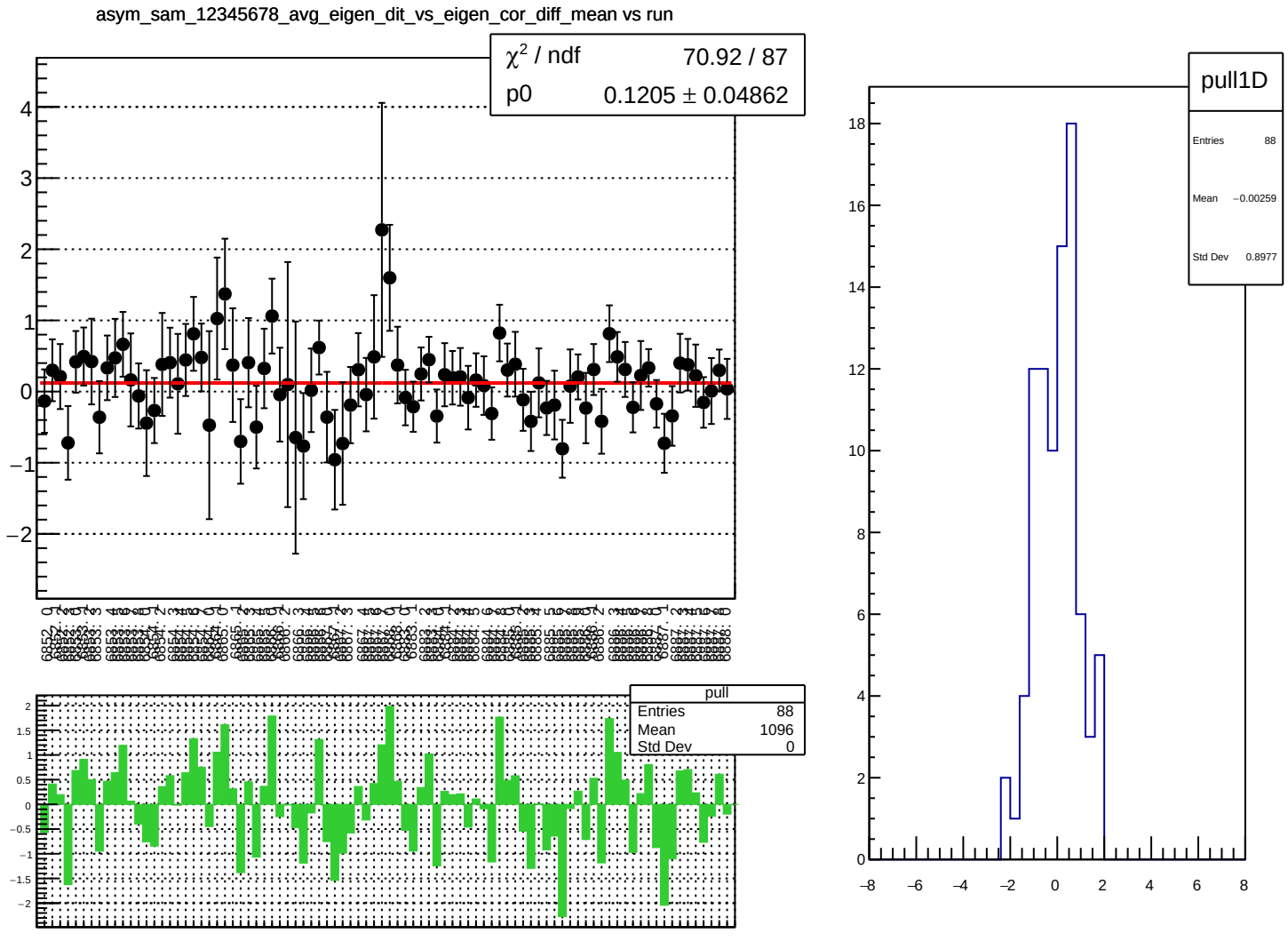

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.05 / 87
p0 4.003e−06 ± 2.132e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 88
Mean 18.42
Std Dev 6.799
2
1
0
−1
−2
−3

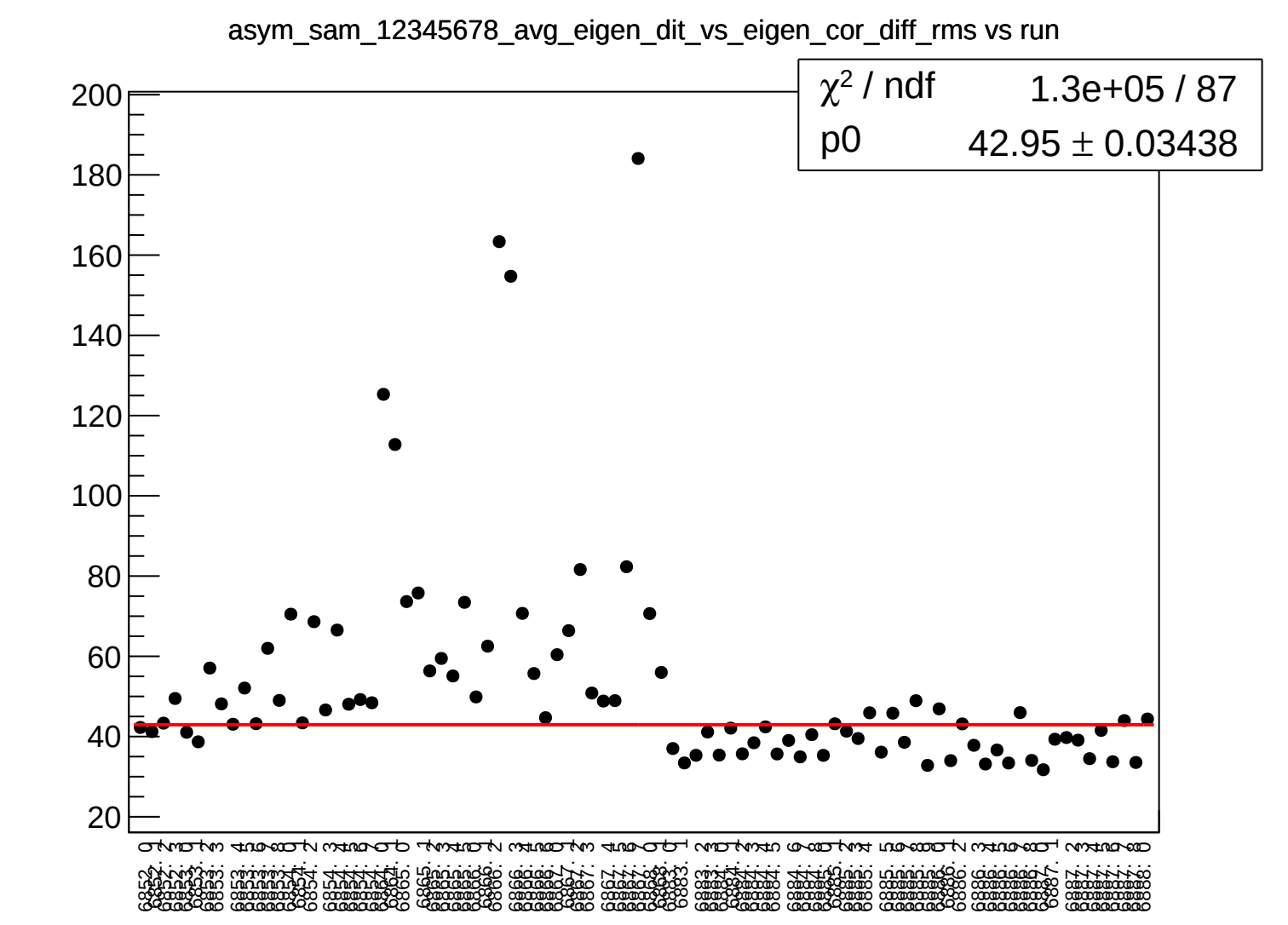

pull1D
Entries 88
Mean −0.0312
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

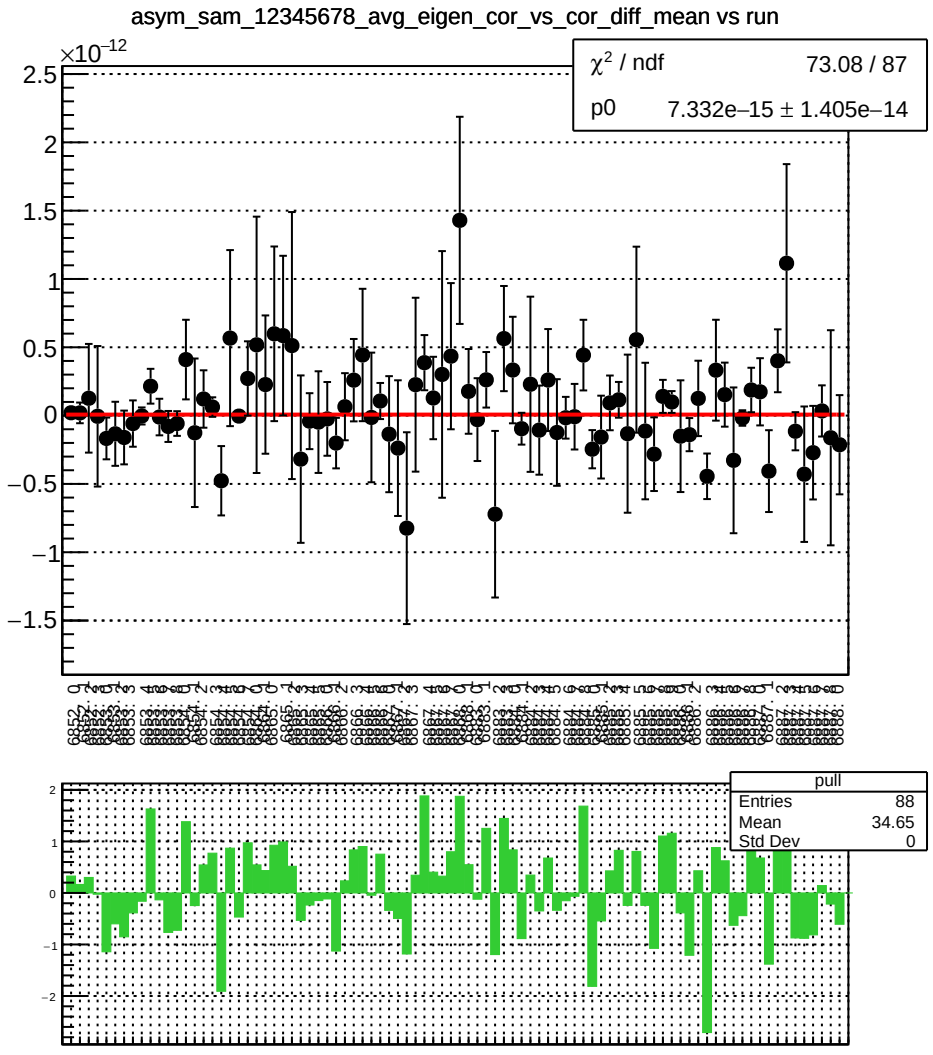

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.515e+05 / 87
p0 0.001871 ± 1.508e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

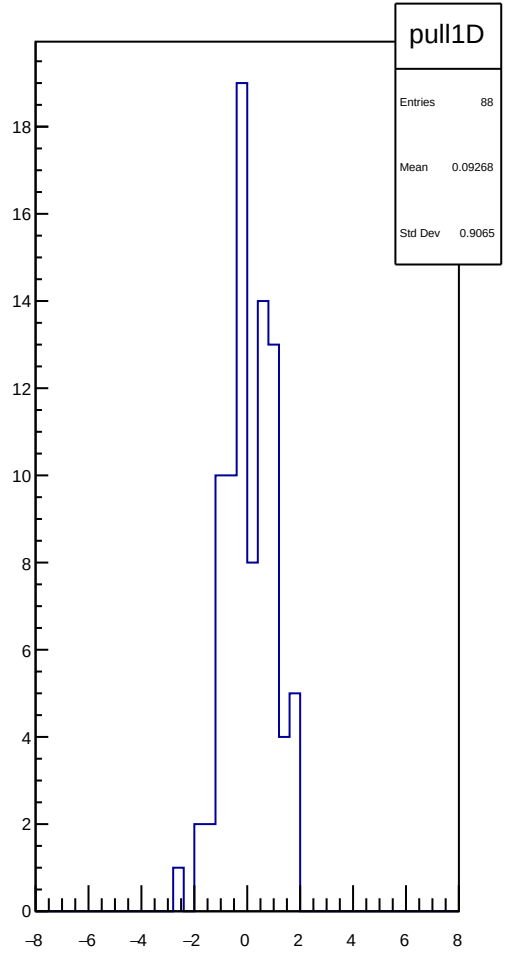

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.92 / 87
p0 0.1205 ± 0.04862
pull
Entries 88
Mean 1096
Std Dev 0
pull1D
Entries 88
Mean −0.00259
Std Dev 0.8977

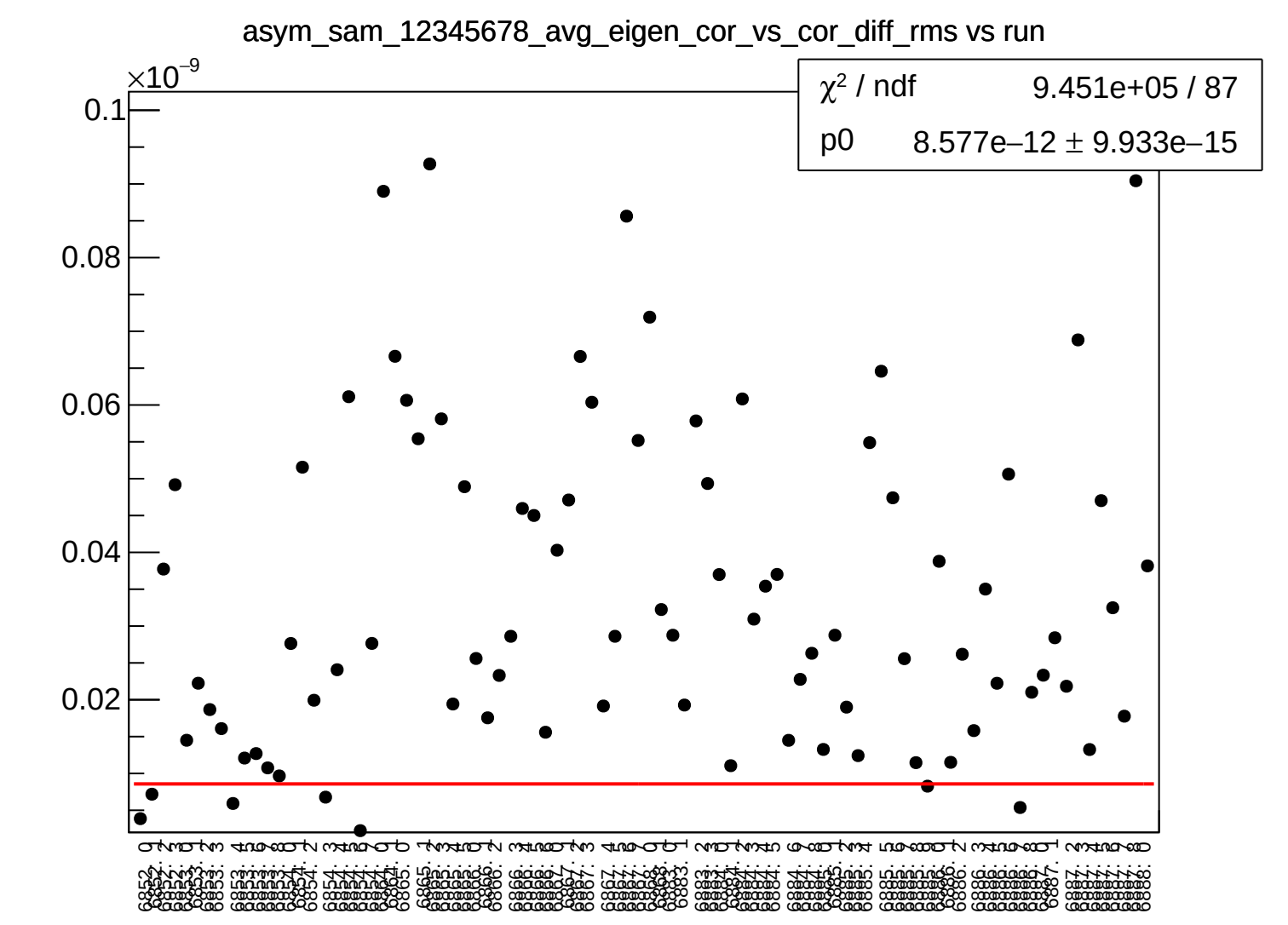

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.3e+05 / 87
p0 42.95 ± 0.03438
200
180
160
140
120
100
80
60
40
20

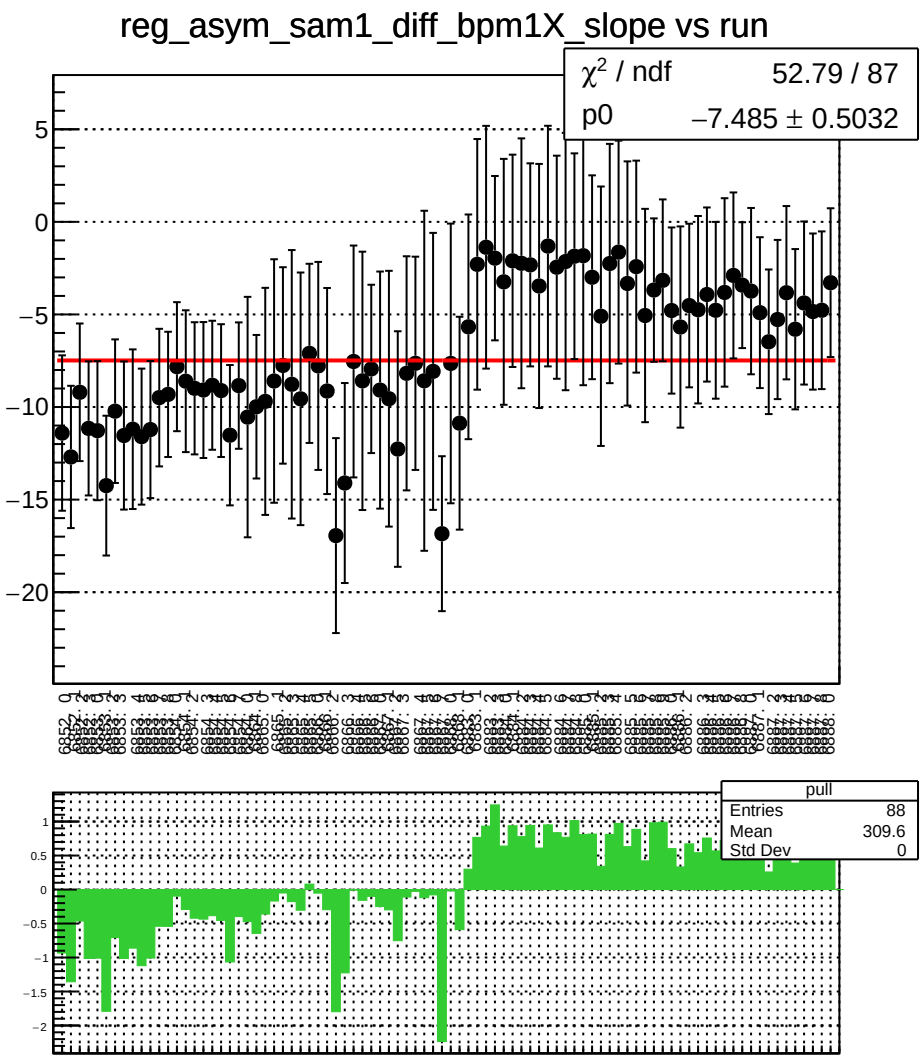

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.92 / 87
p0 0.1205 ± 0.04862
pull
Entries 88
Mean 1096
Std Dev 0
pull1D
Entries 88
Mean −0.00259
Std Dev 0.8977

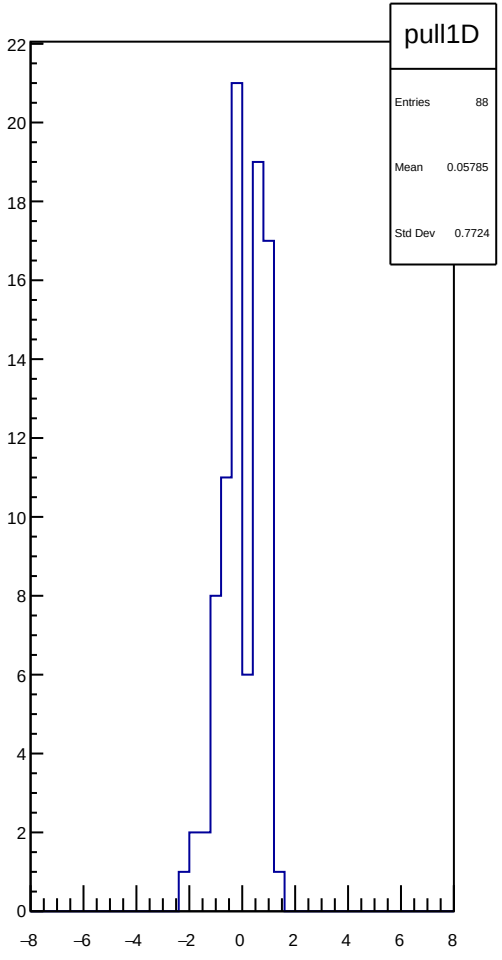

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.3e+05 / 87
p0 42.95 ± 0.03438
200
180
160
140
120
100
80
60
40
20

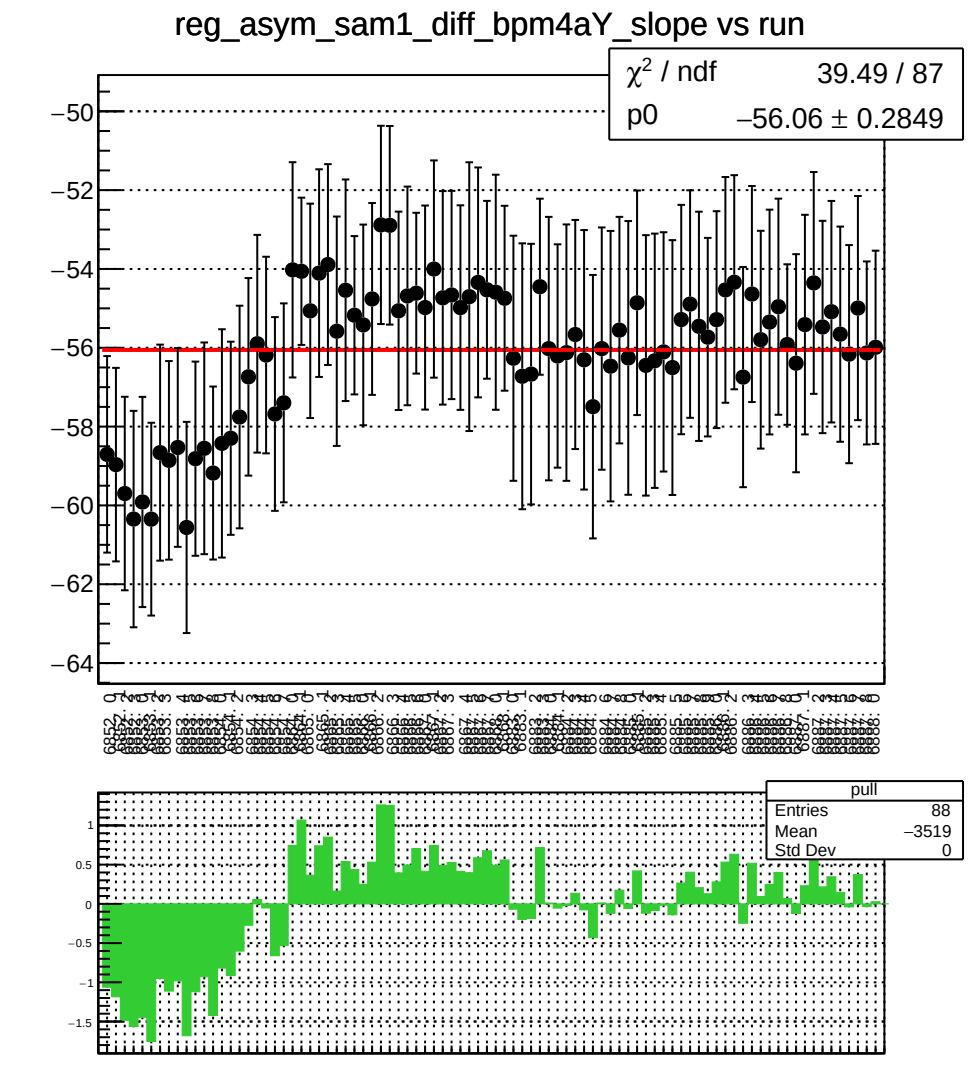

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.08 / 87
p0 7.332e−15 ± 1.405e−14
pull
Entries 88
Mean 34.65
Std Dev 0

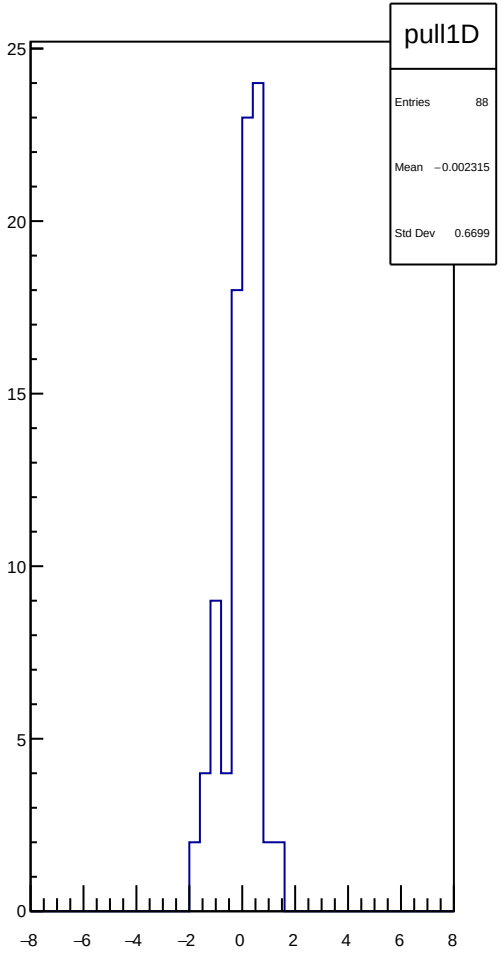

pull1D
Entries 88
Mean 0.09268
Std Dev 0.9065

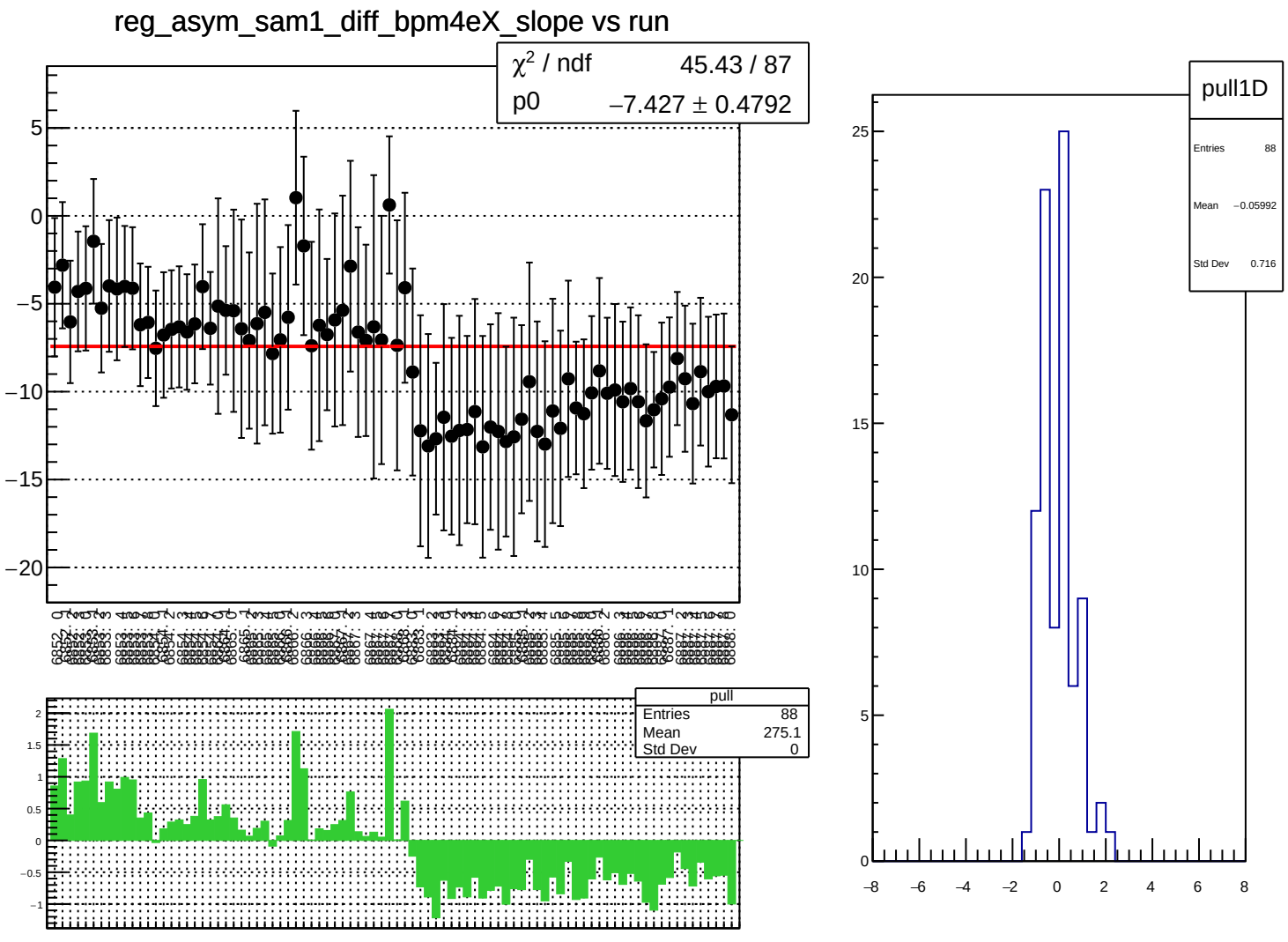

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.08
0.06
0.04
0.02
χ² / ndf 9.451e+05 / 87
p0 8.577e−12 ± 9.933e−15

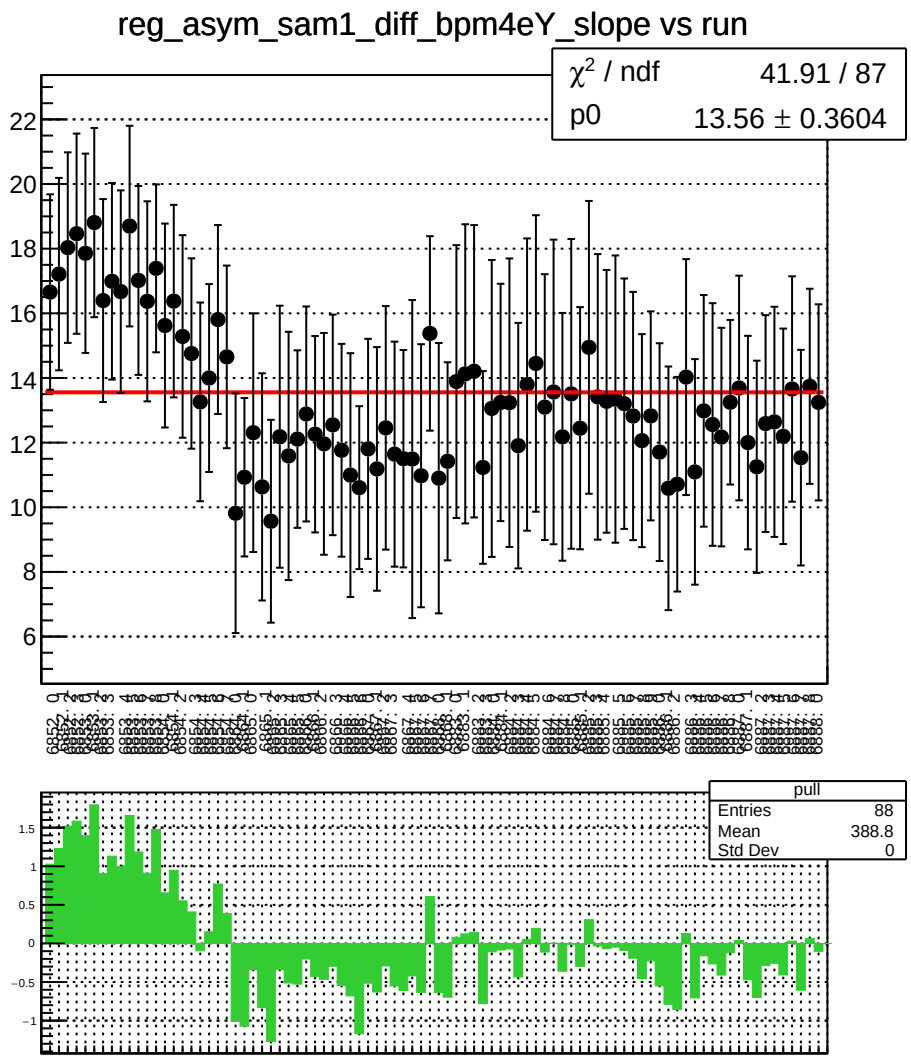

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 52.79 / 87
p0 −7.485 ± 0.5032
pull
Entries 88
Mean 309.6
Std Dev 0

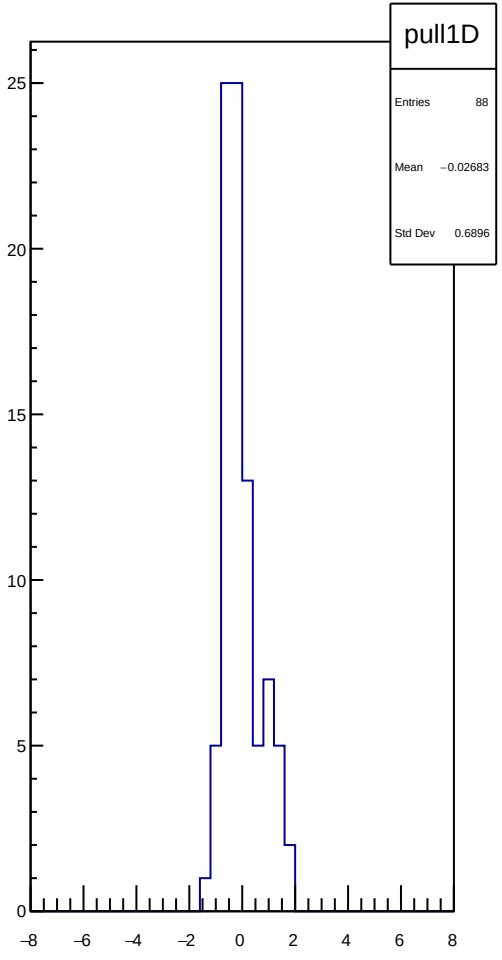

pull1D
Entries 88
Mean 0.05785
Std Dev 0.7724

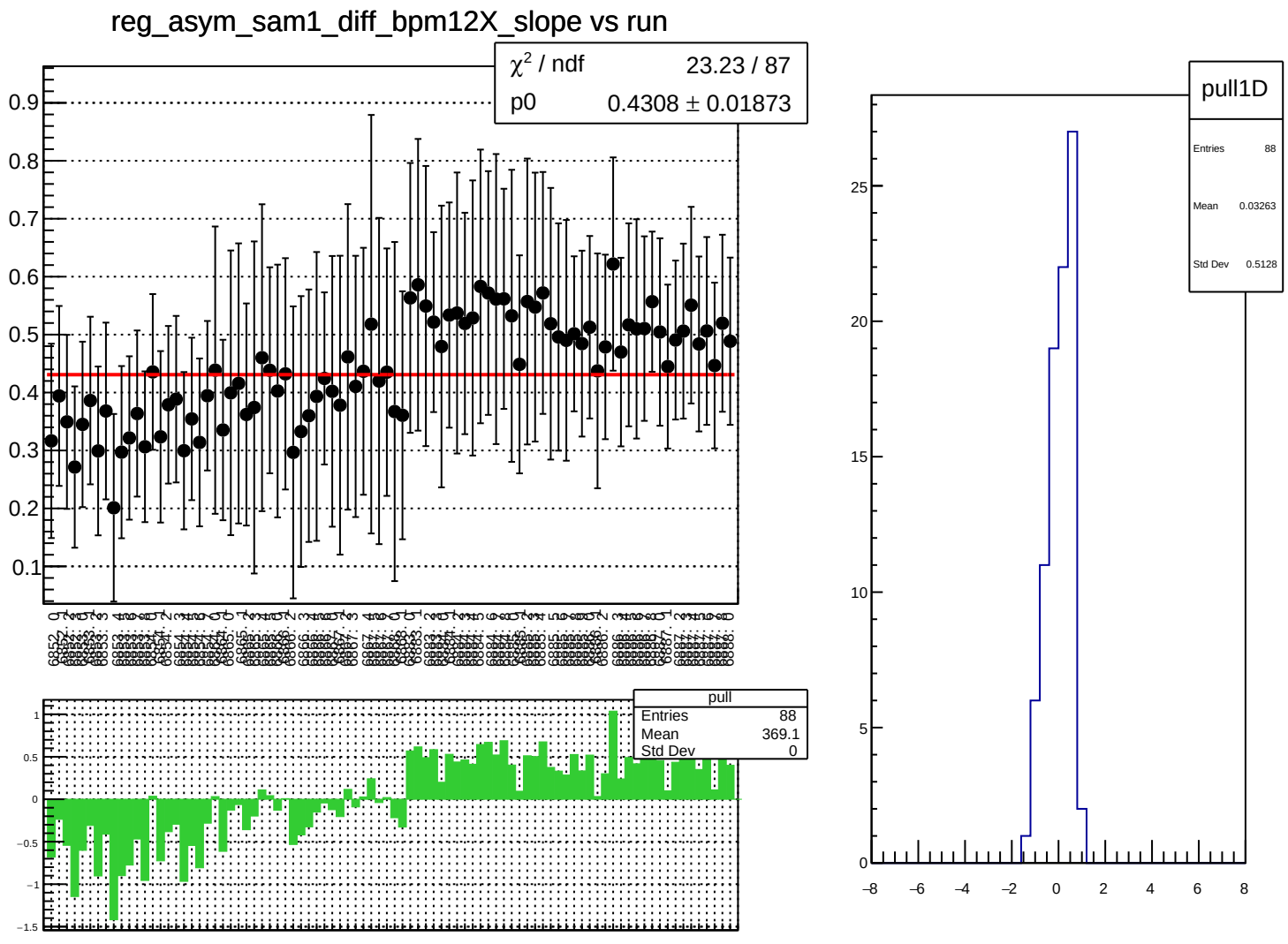

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 39.49 / 87
p0 −56.06 ± 0.2849
pull
Entries 88
Mean −3519
Std Dev 0

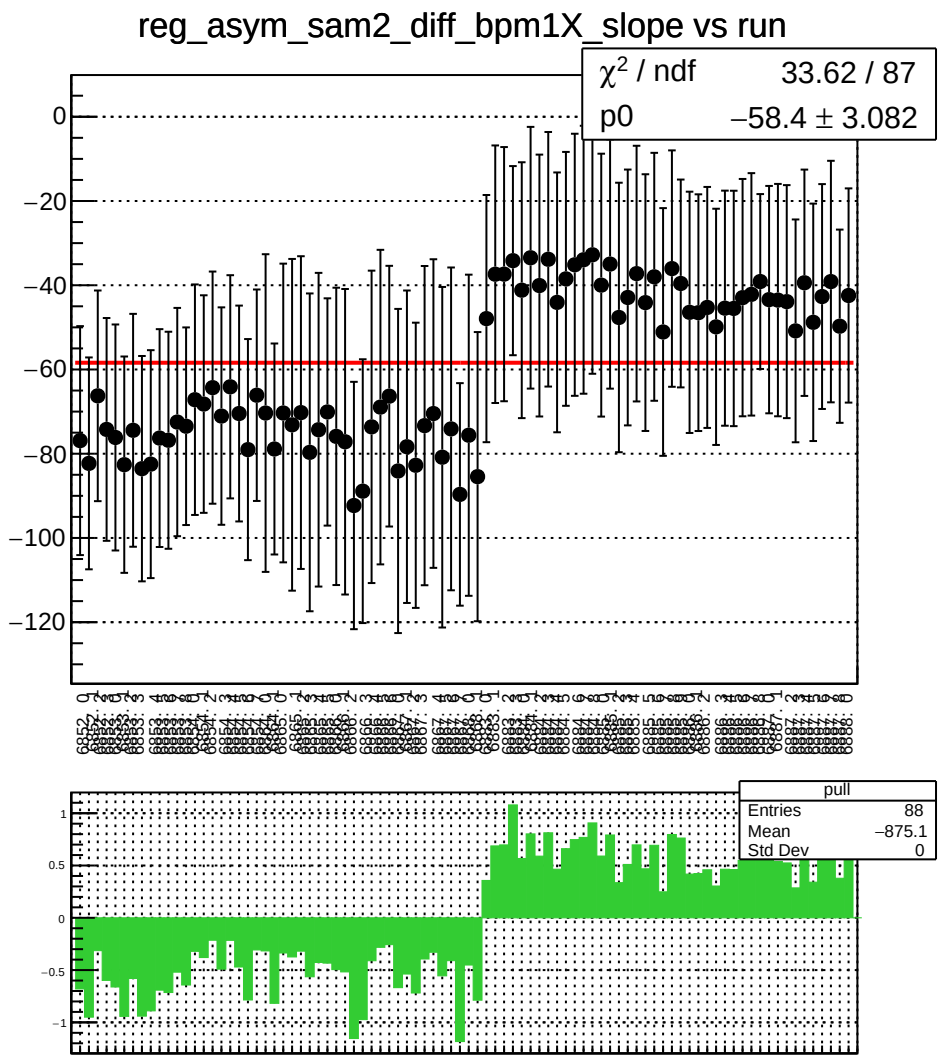

pull1D
Entries 88
Mean −0.002315
Std Dev 0.6699

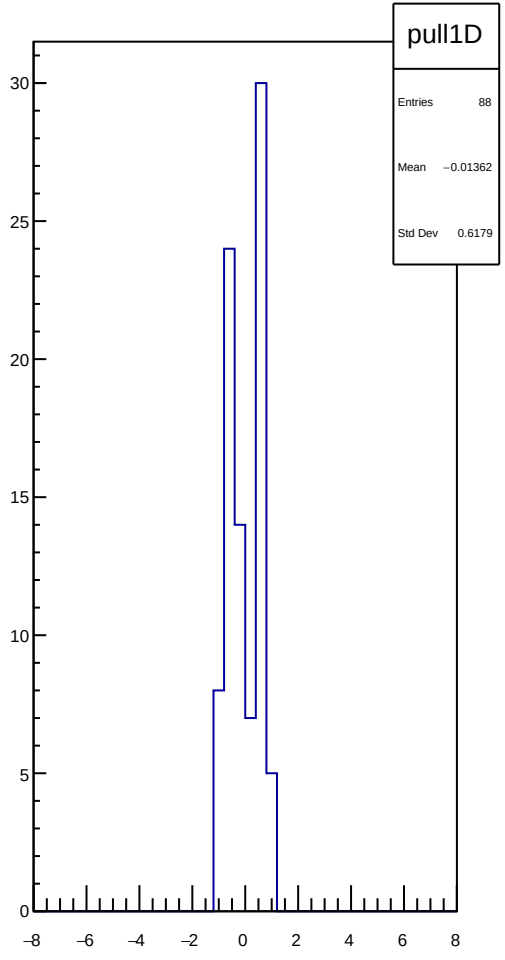

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 45.43 / 87
p0 −7.427 ± 0.4792
pull
Entries 88
Mean 275.1
Std Dev 0
pull1D
Entries 88
Mean −0.05992
Std Dev 0.716

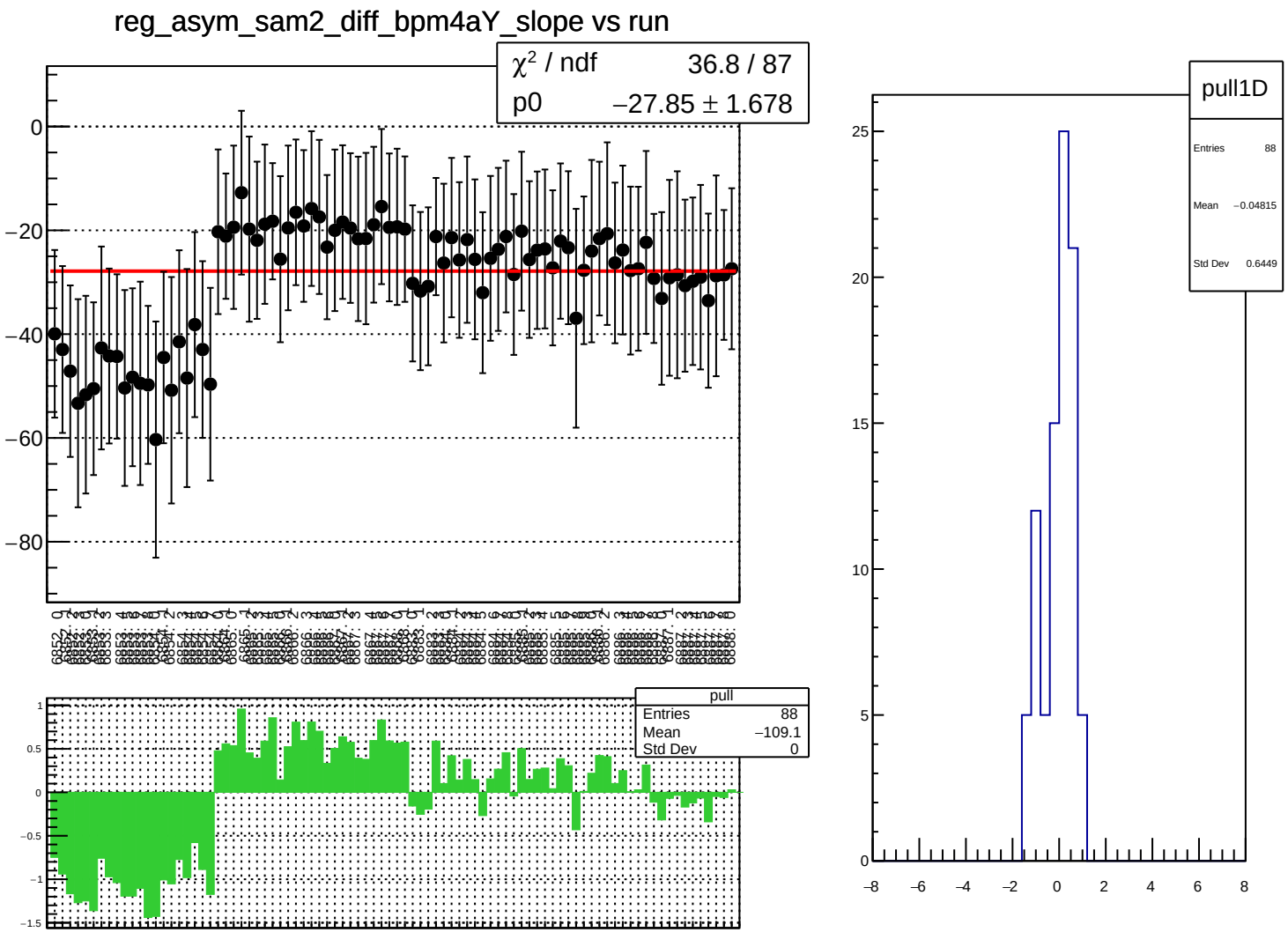

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 41.91 / 87
p0 13.56 ± 0.3604
pull
Entries 88
Mean 388.8
Std Dev 0

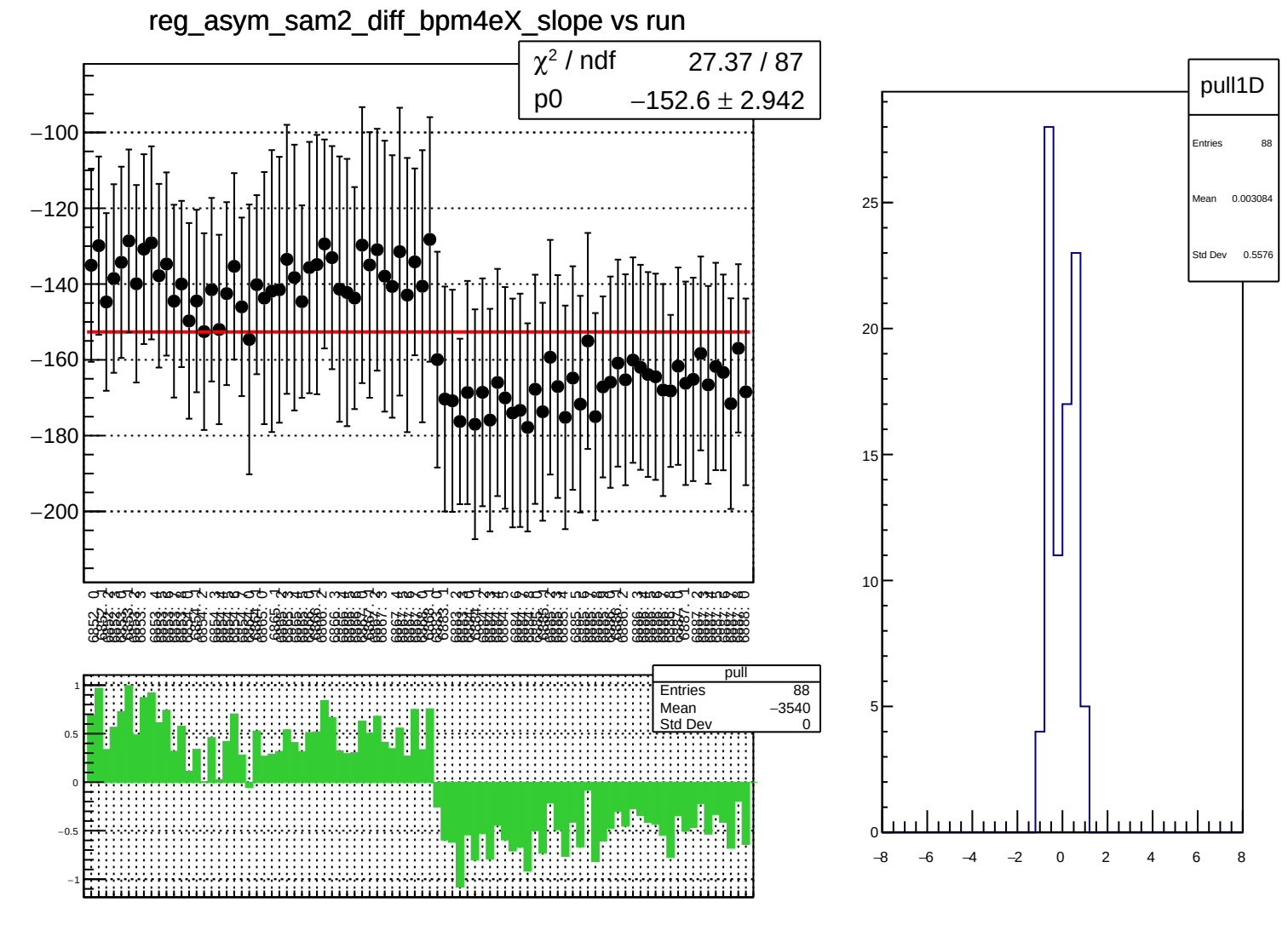

pull1D
Entries 88
Mean −0.02683
Std Dev 0.6896

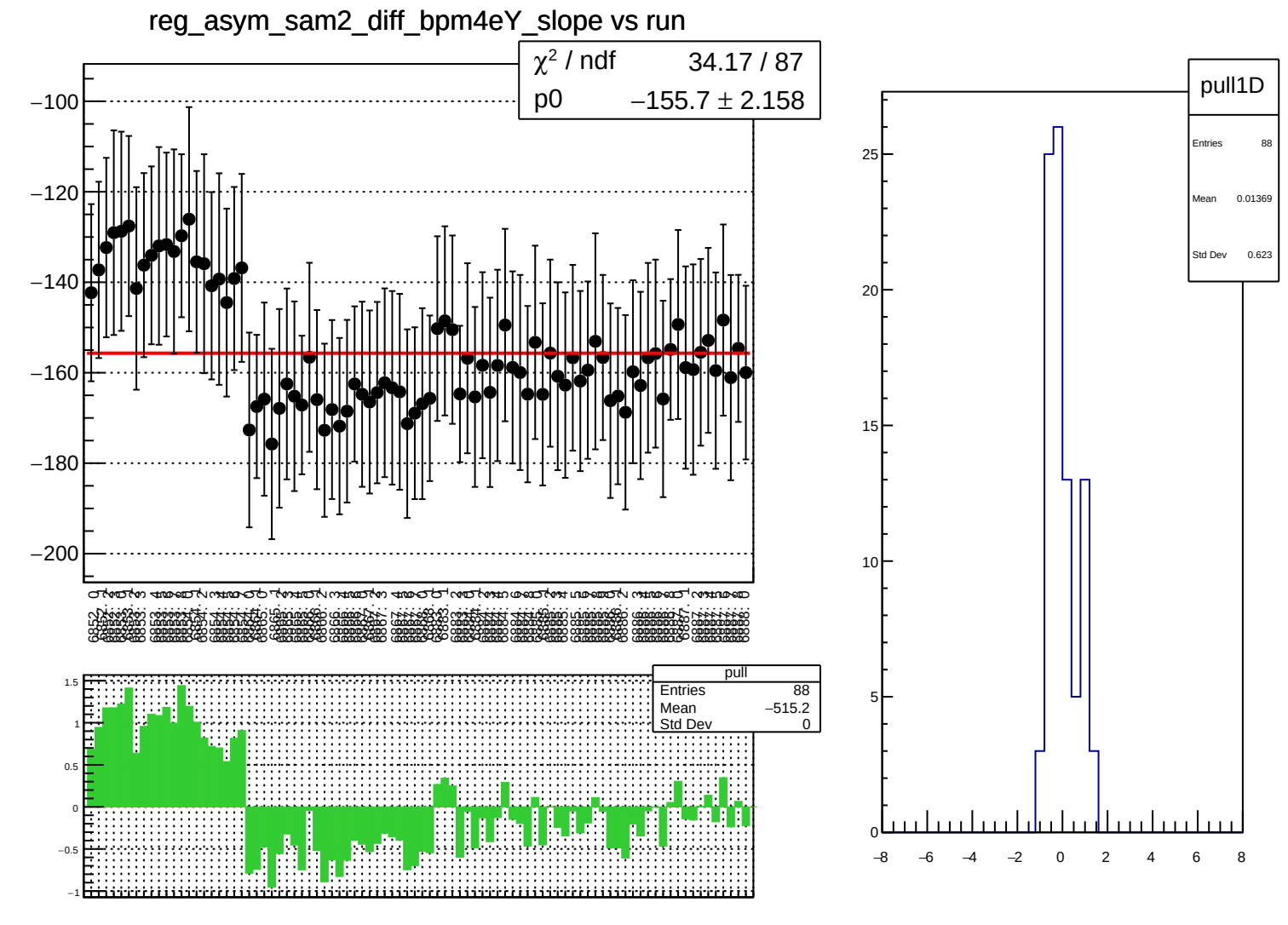

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 23.23 / 87
p0 0.4308 ± 0.01873
pull
Entries 88
Mean 369.1
Std Dev 0
pull1D
Entries 88
Mean 0.03263
Std Dev 0.5128

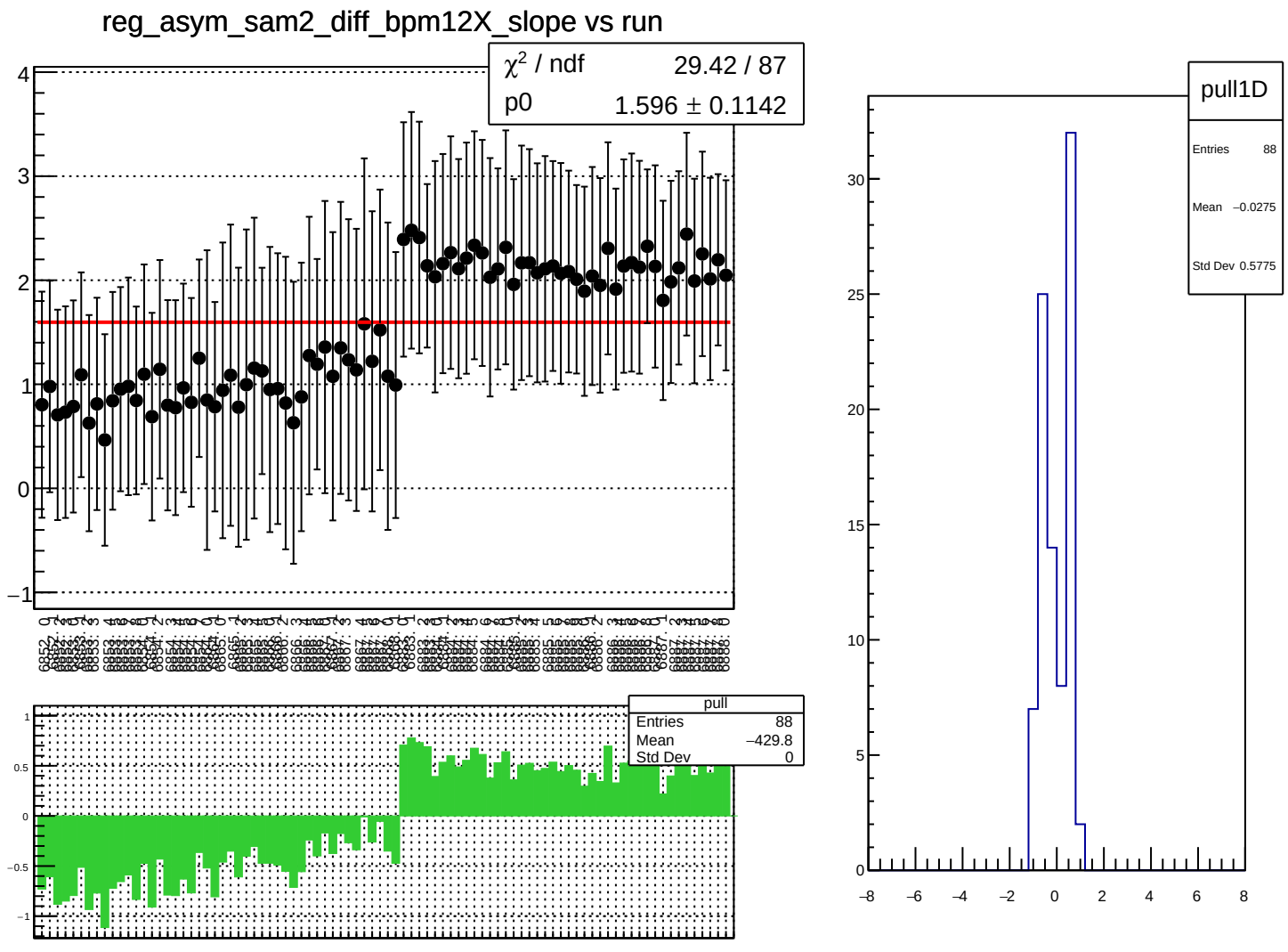

reg_asym_sam2_diff_bpm1X_slope vs run
χ^2 / ndf 33.62 / 87
p0 −58.4 ± 3.082
0
−20
−40
−60
−80
−100
−120
pull
Entries 88
Mean −875.1
Std Dev 0
1
0.5
0
−0.5
−1

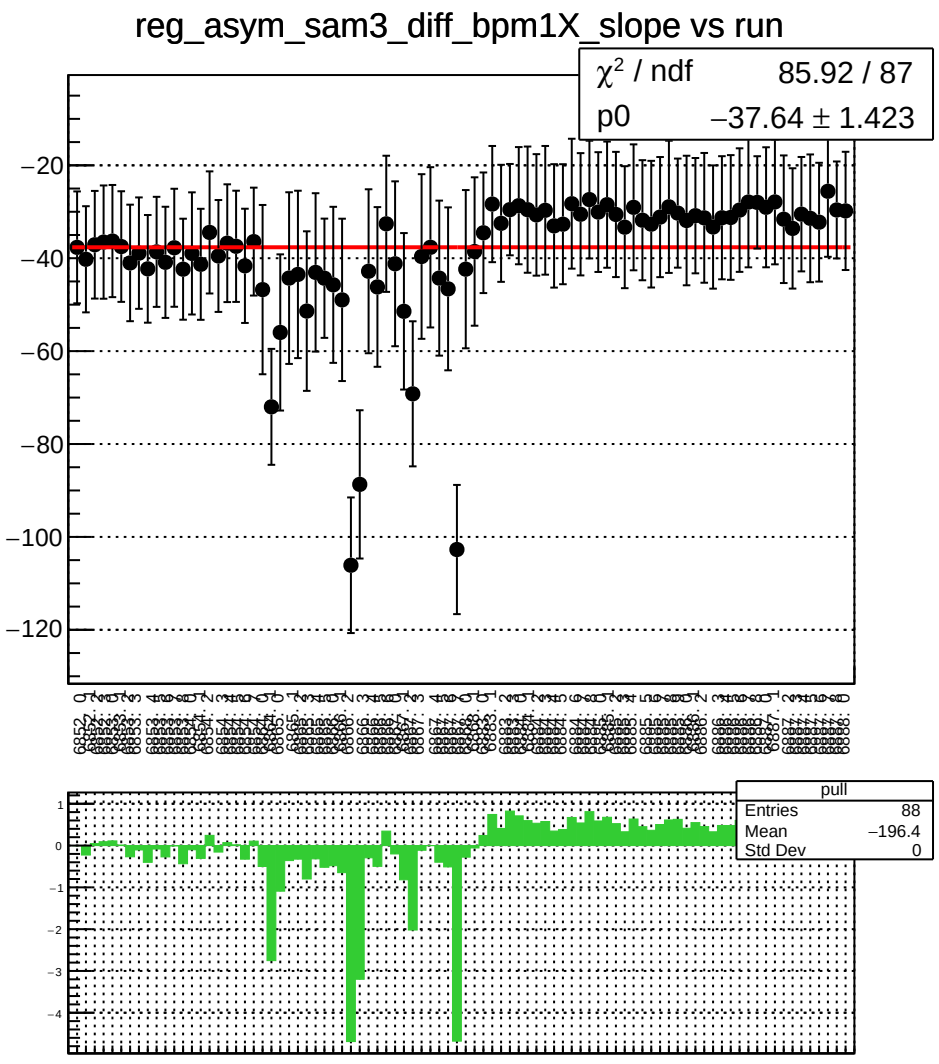

pull1D
Entries 88
Mean −0.01362
Std Dev 0.6179
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

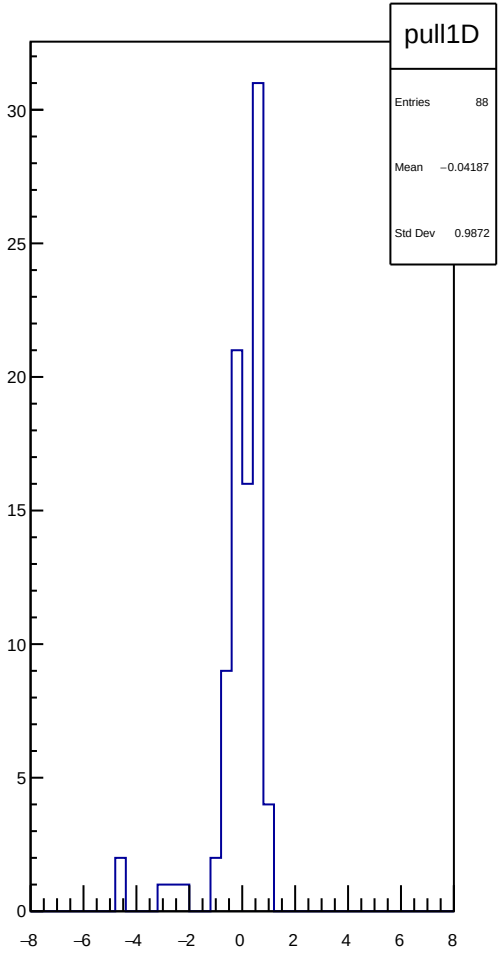

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 36.8 / 87
p0 −27.85 ± 1.678
0
−20
−40
−60
−80
pull
Entries 88
Mean −109.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.04815
Std Dev 0.6449
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

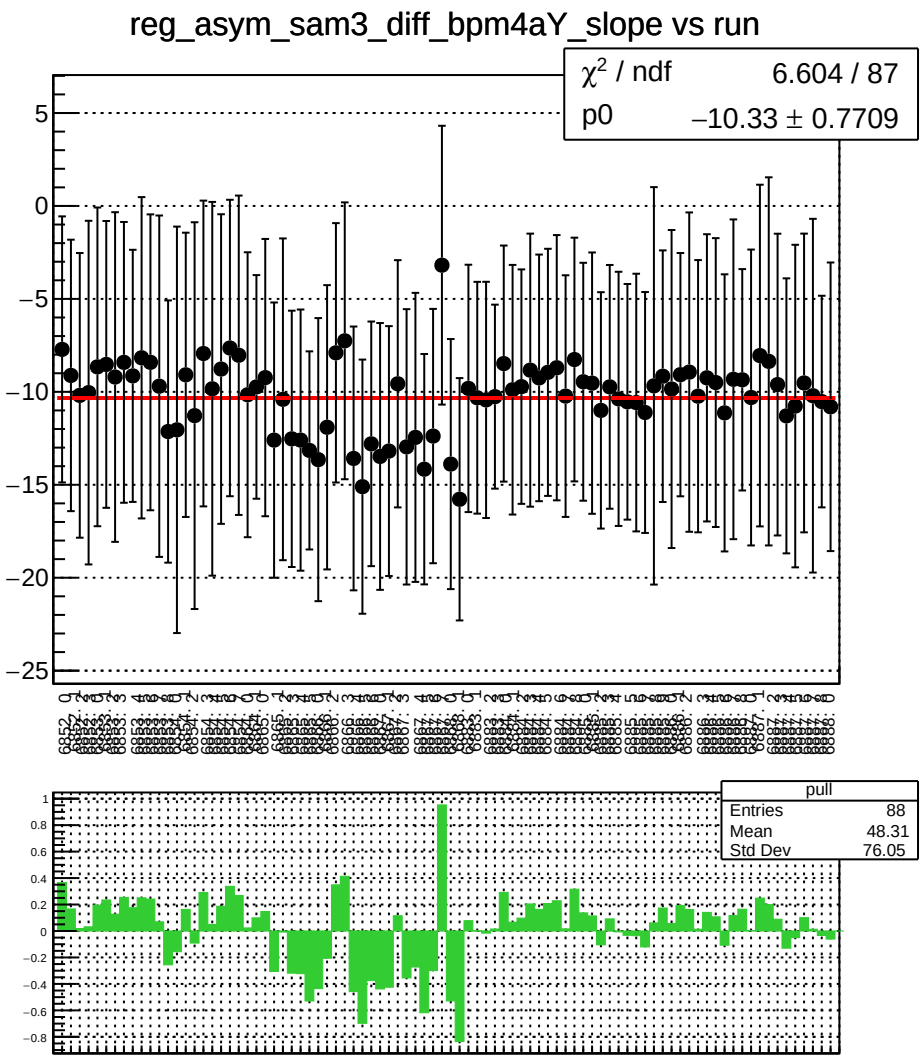

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 27.37 / 87
p0 −152.6 ± 2.942
−100
−120
−140
−160
−180
−200
pull
Entries 88
Mean −3540
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.003084
Std Dev 0.5576
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

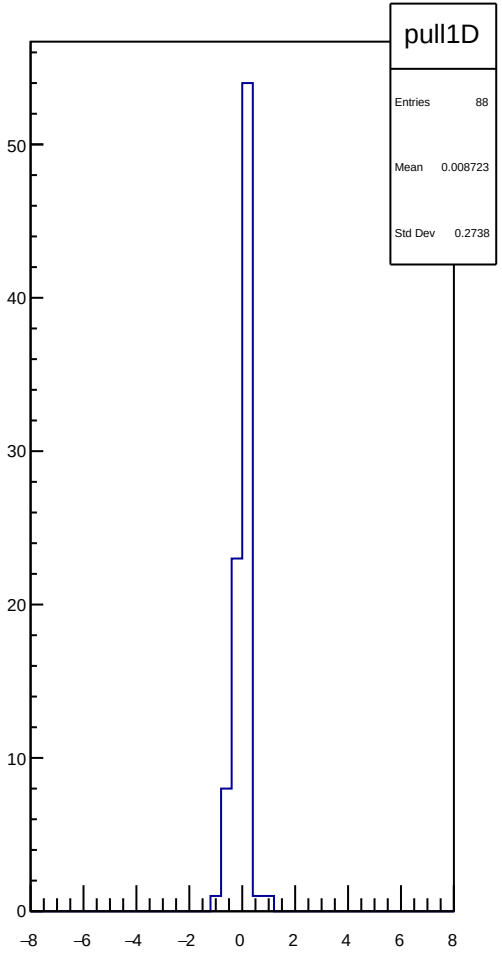

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 34.17 / 87
p0 −155.7 ± 2.158
−100
−120
−140
−160
−180
−200
pull
Entries 88
Mean −515.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.01369
Std Dev 0.623
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

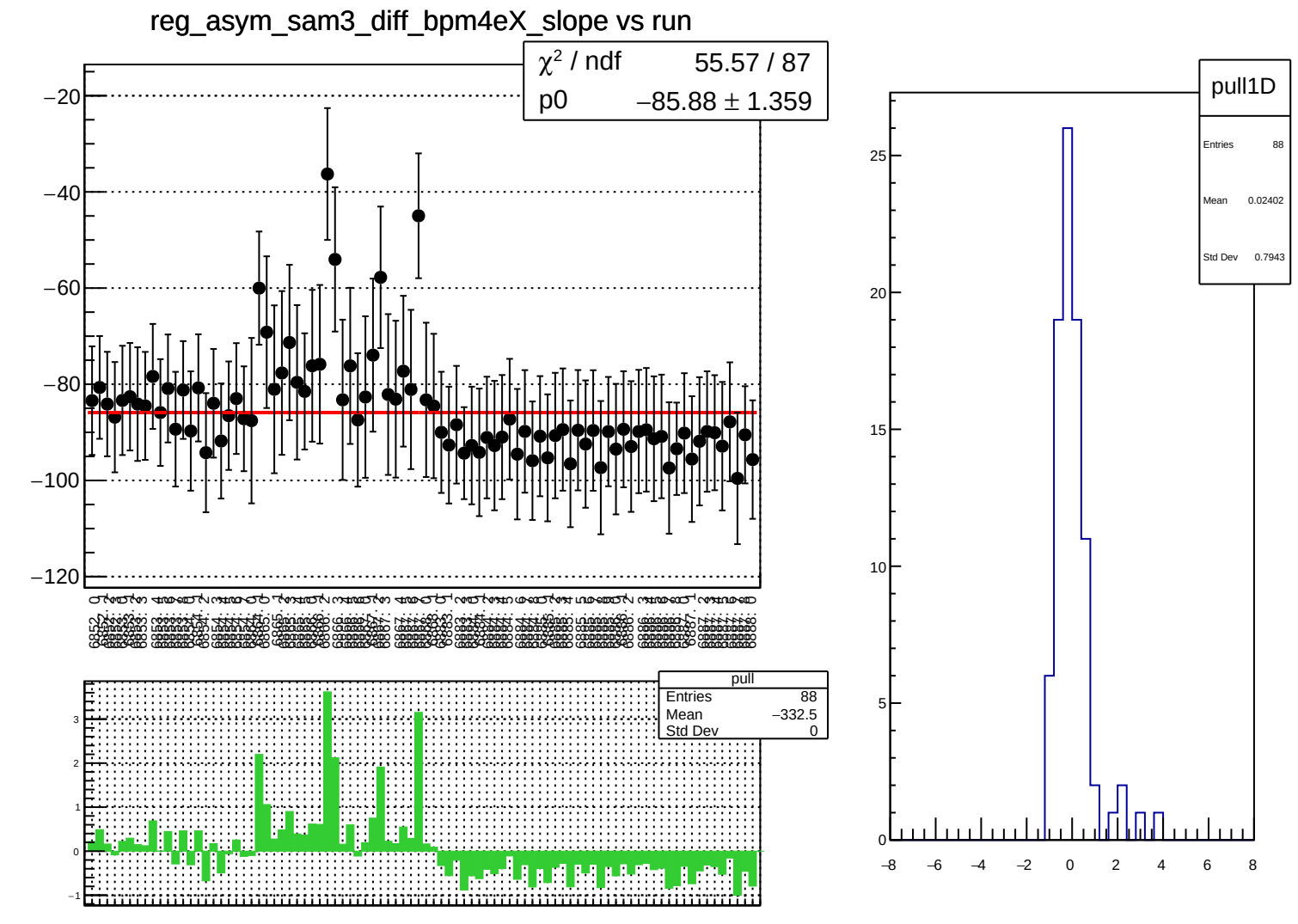

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 29.42 / 87
p0 1.596 ± 0.1142
pull
Entries 88
Mean −429.8
Std Dev 0
pull1D
Entries 88
Mean −0.0275
Std Dev 0.5775

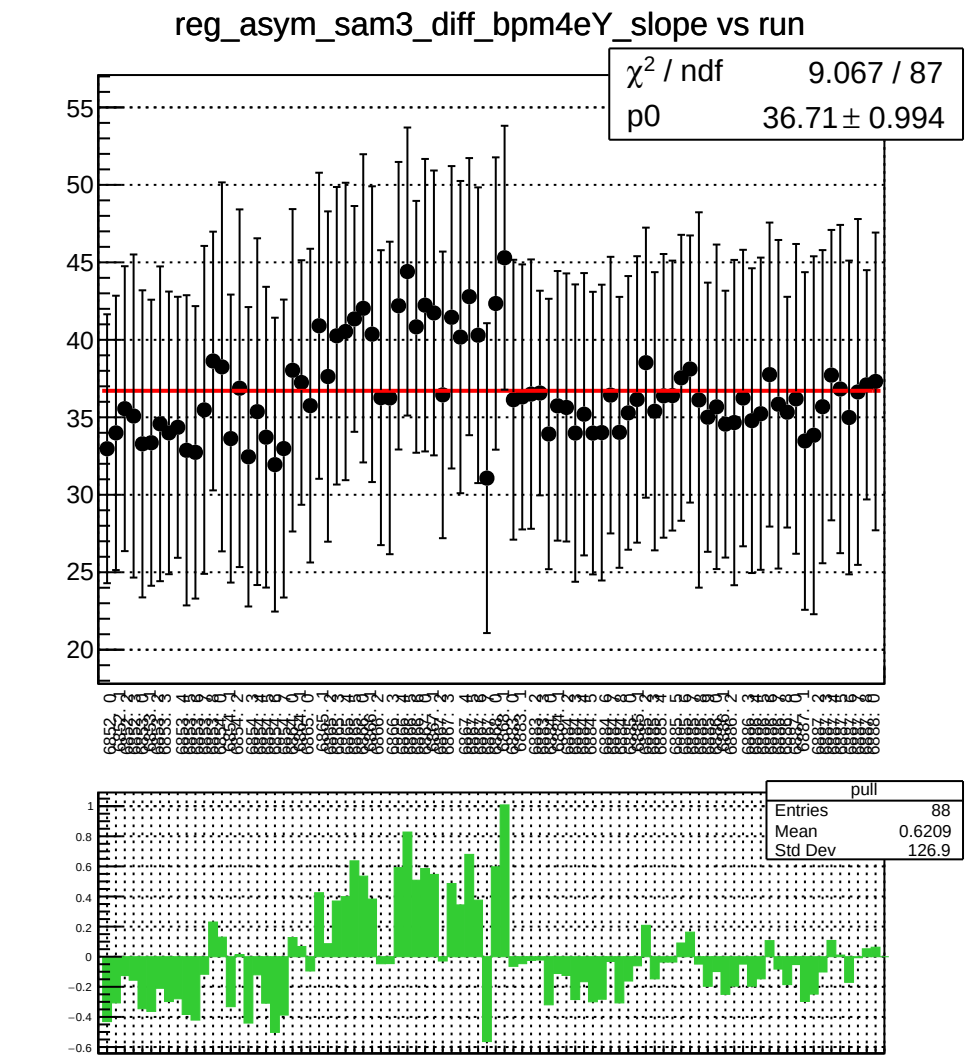

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 85.92 / 87
p0 −37.64 ± 1.423
−20
−40
−60
−80
−100
−120
pull
Entries 88
Mean −196.4
Std Dev 0
1
0
−1
−2
−3
−4

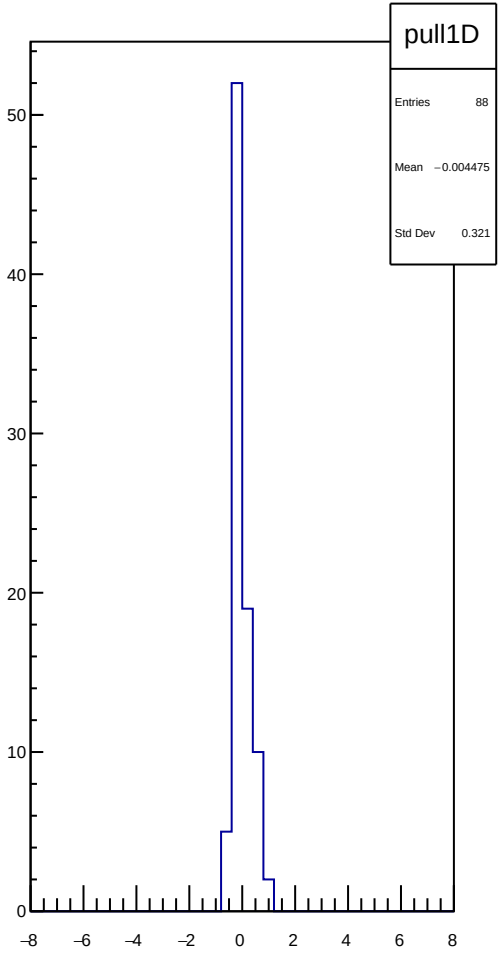

pull1D
Entries 88
Mean −0.04187
Std Dev 0.9872
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

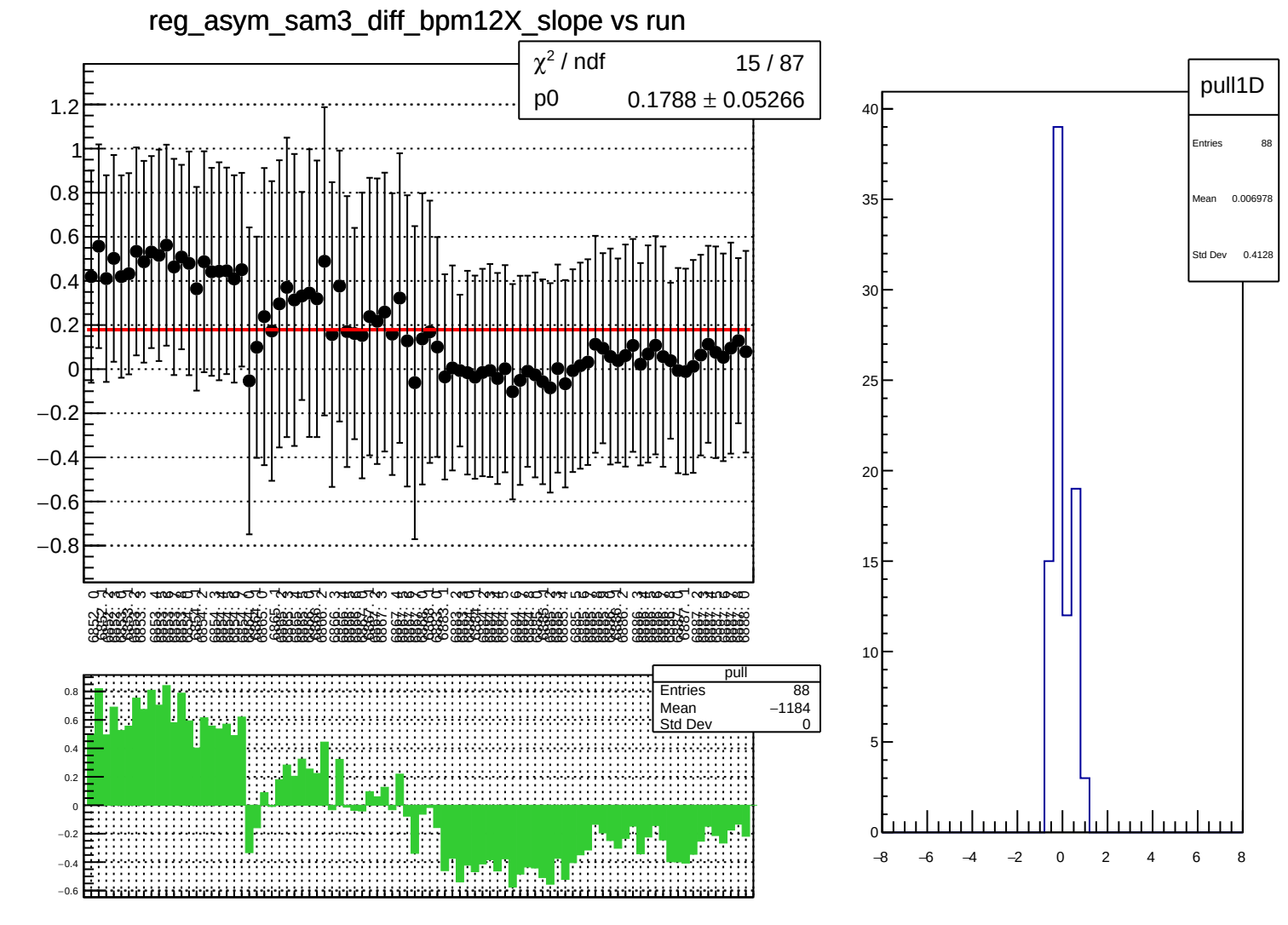

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 6.604 / 87
p0 −10.33 ± 0.7709
pull
Entries 88
Mean 48.31
Std Dev 76.05

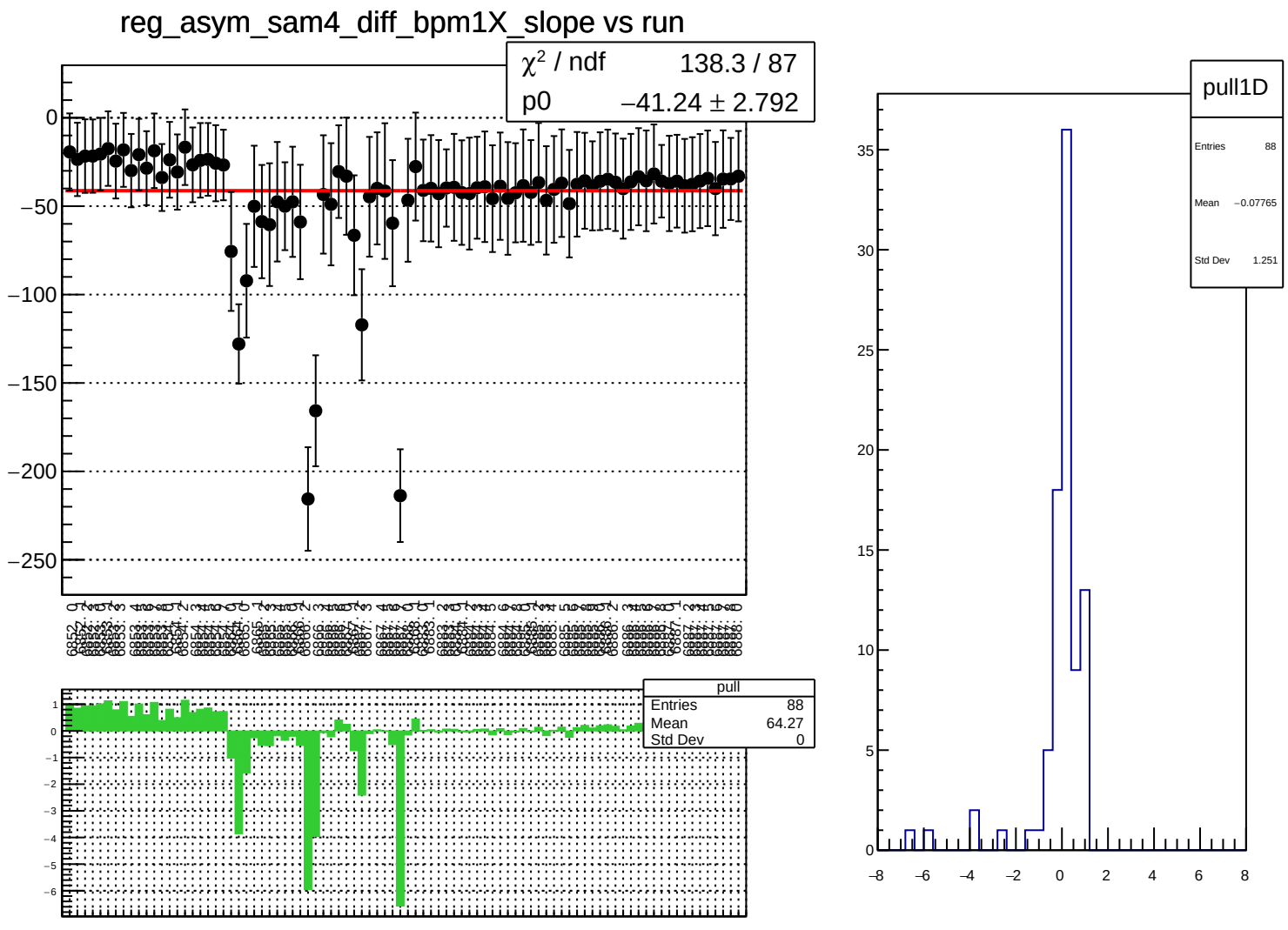

pull1D
Entries 88
Mean 0.008723
Std Dev 0.2738

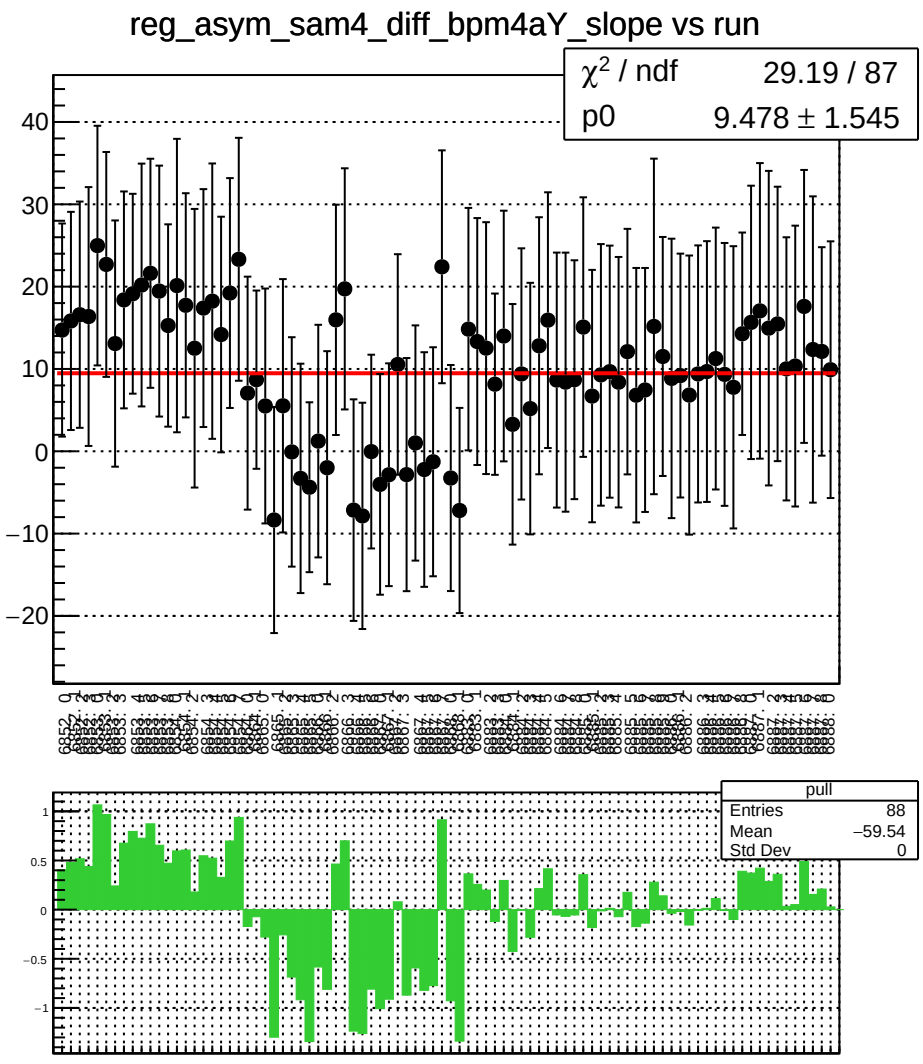

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 55.57 / 87
p0 −85.88 ± 1.359
−20
−40
−60
−80
−100
−120
pull
Entries 88
Mean −332.5
Std Dev 0
3
2
1
0
−1
pull1D
Entries 88
Mean 0.02402
Std Dev 0.7943
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

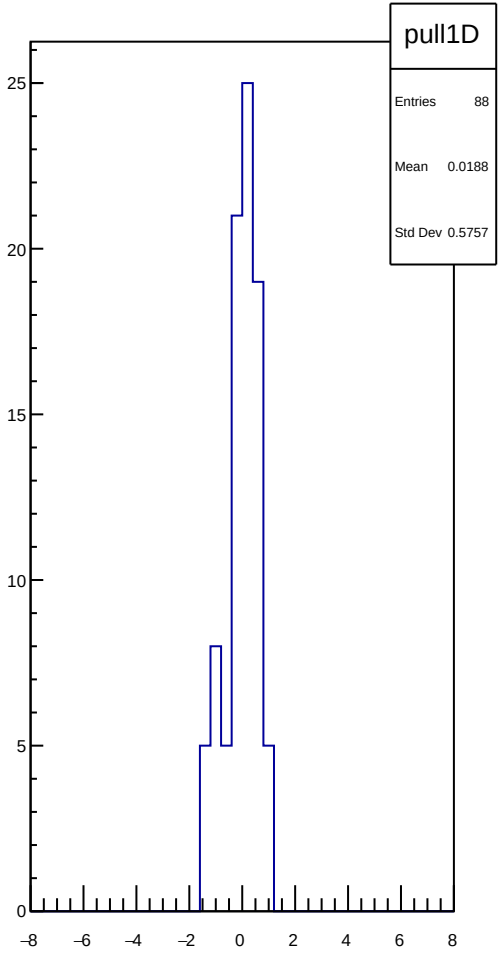

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 9.067 / 87
p0 36.71 ± 0.994
pull
Entries 88
Mean 0.6209
Std Dev 126.9

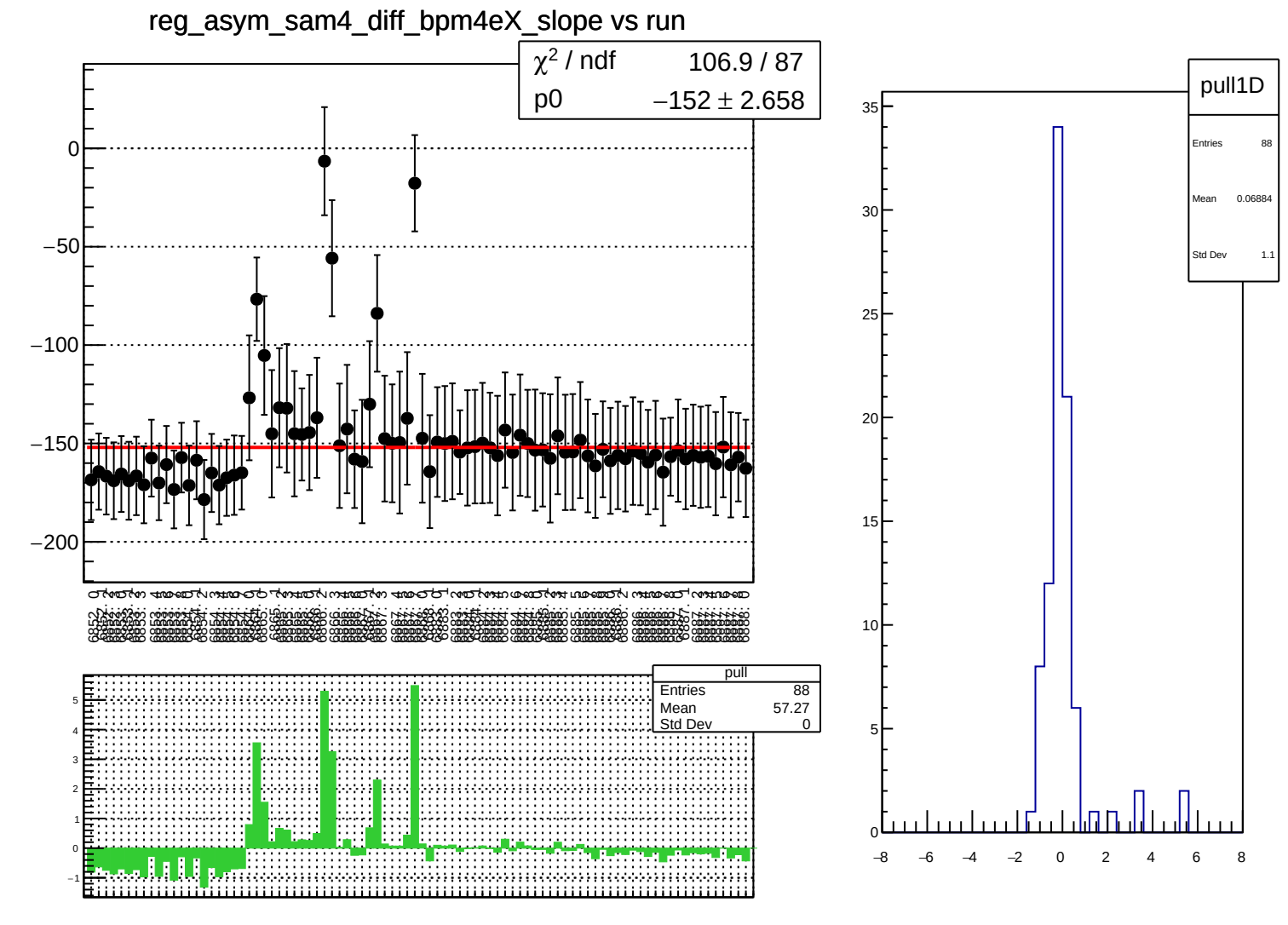

pull1D
Entries 88
Mean −0.004475
Std Dev 0.321

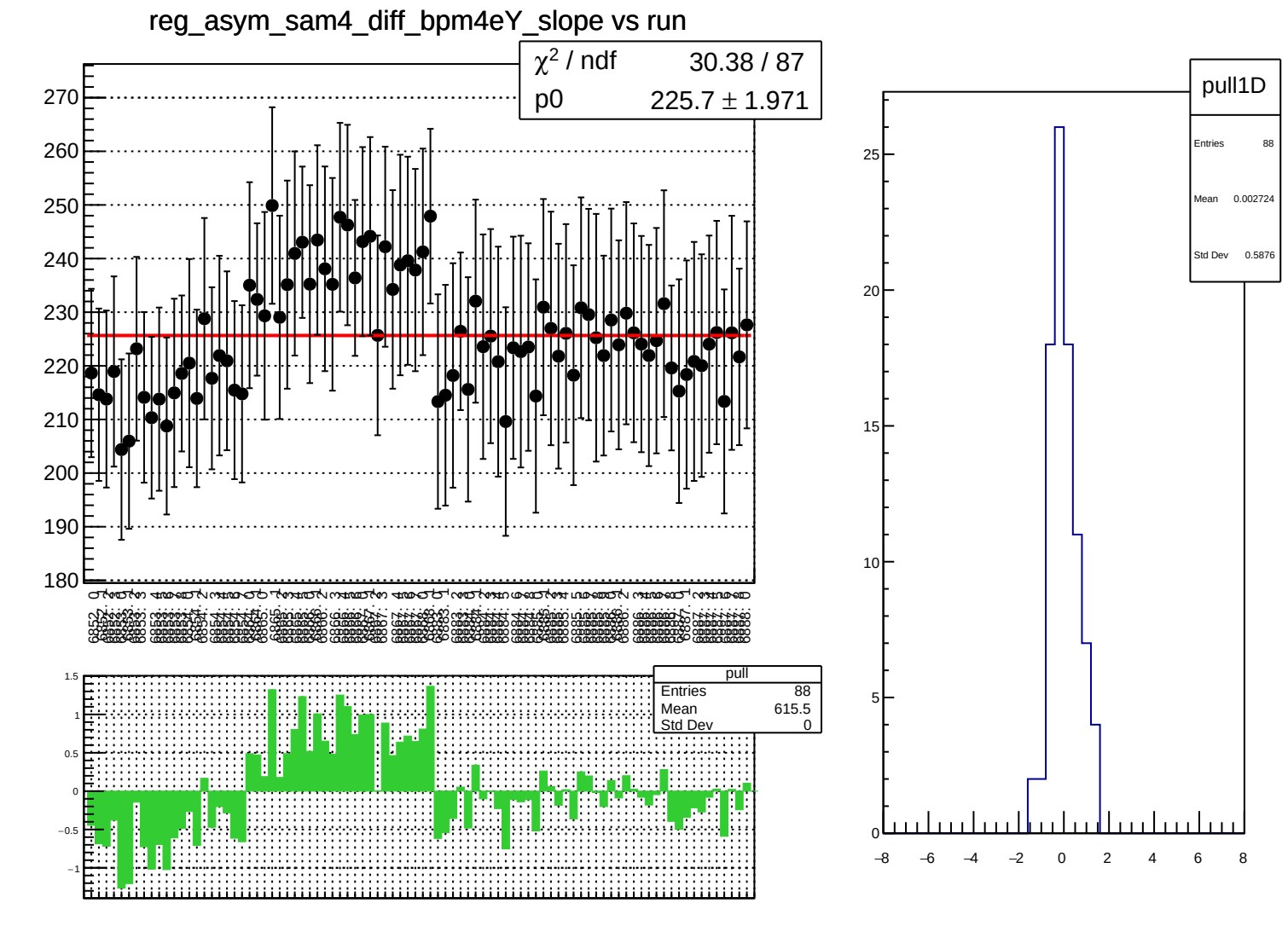

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 15 / 87
p0 0.1788 ± 0.05266
pull
Entries 88
Mean −1184
Std Dev 0
pull1D
Entries 88
Mean 0.006978
Std Dev 0.4128

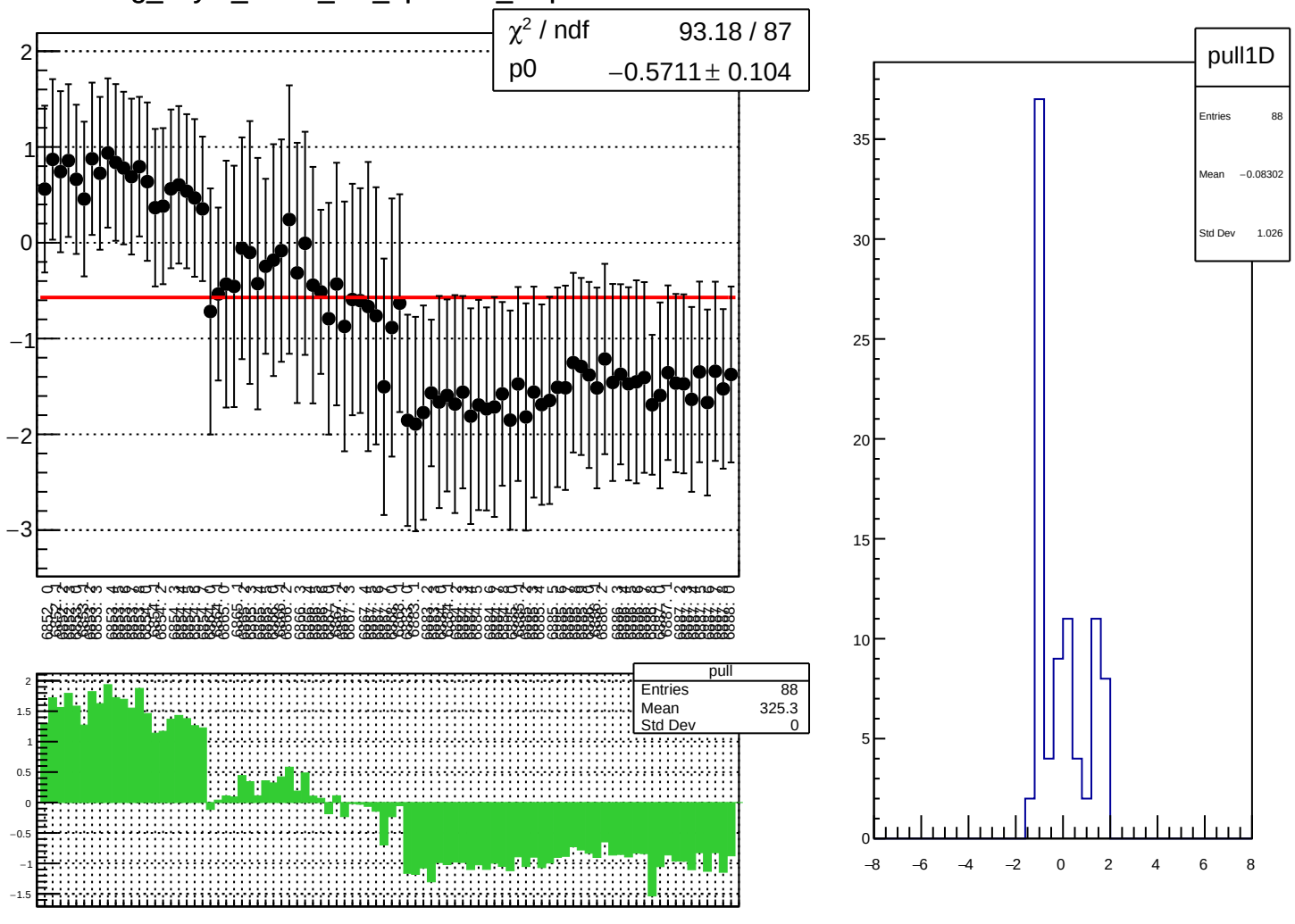

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 138.3 / 87
p0 −41.24 ± 2.792
0
−50
−100
−150
−200
−250
pull
Entries 88
Mean 64.27
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 88
Mean −0.07765
Std Dev 1.251
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

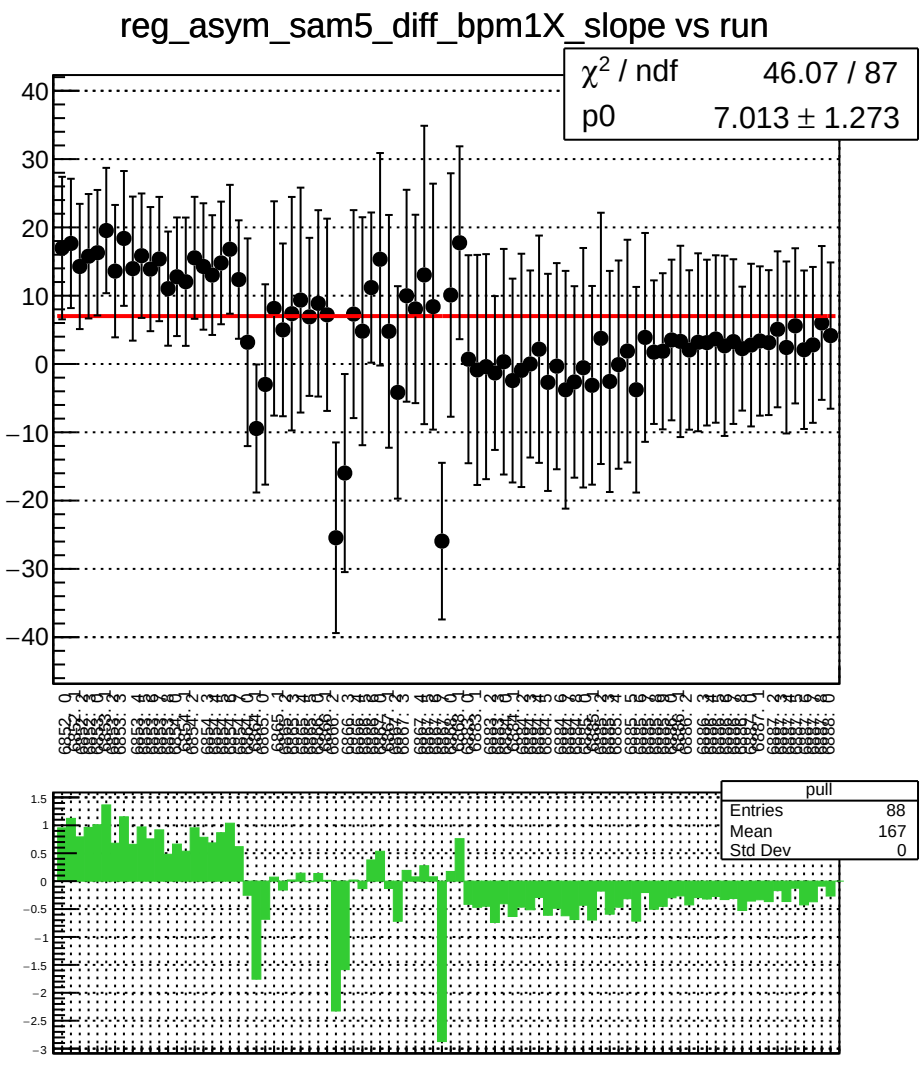

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 29.19 / 87
p0 9.478 ± 1.545
pull
Entries 88
Mean −59.54
Std Dev 0

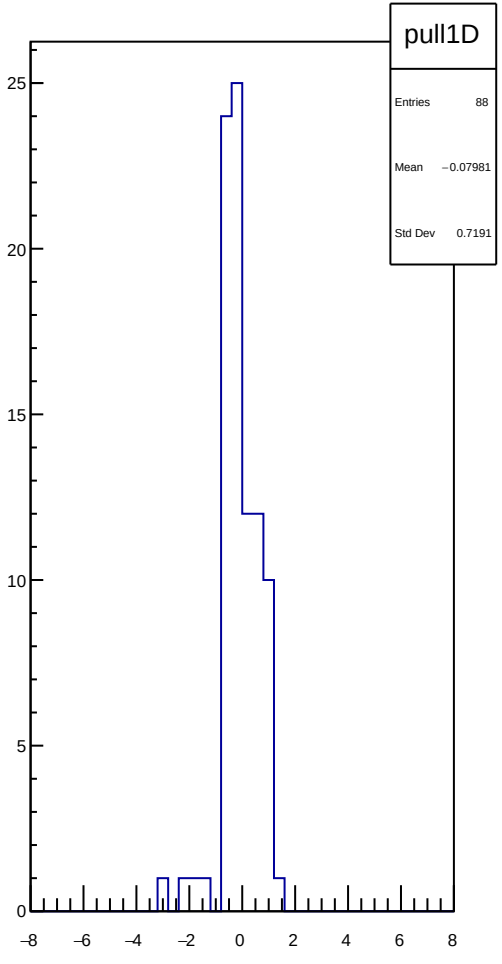

pull1D
Entries 88
Mean 0.0188
Std Dev 0.5757

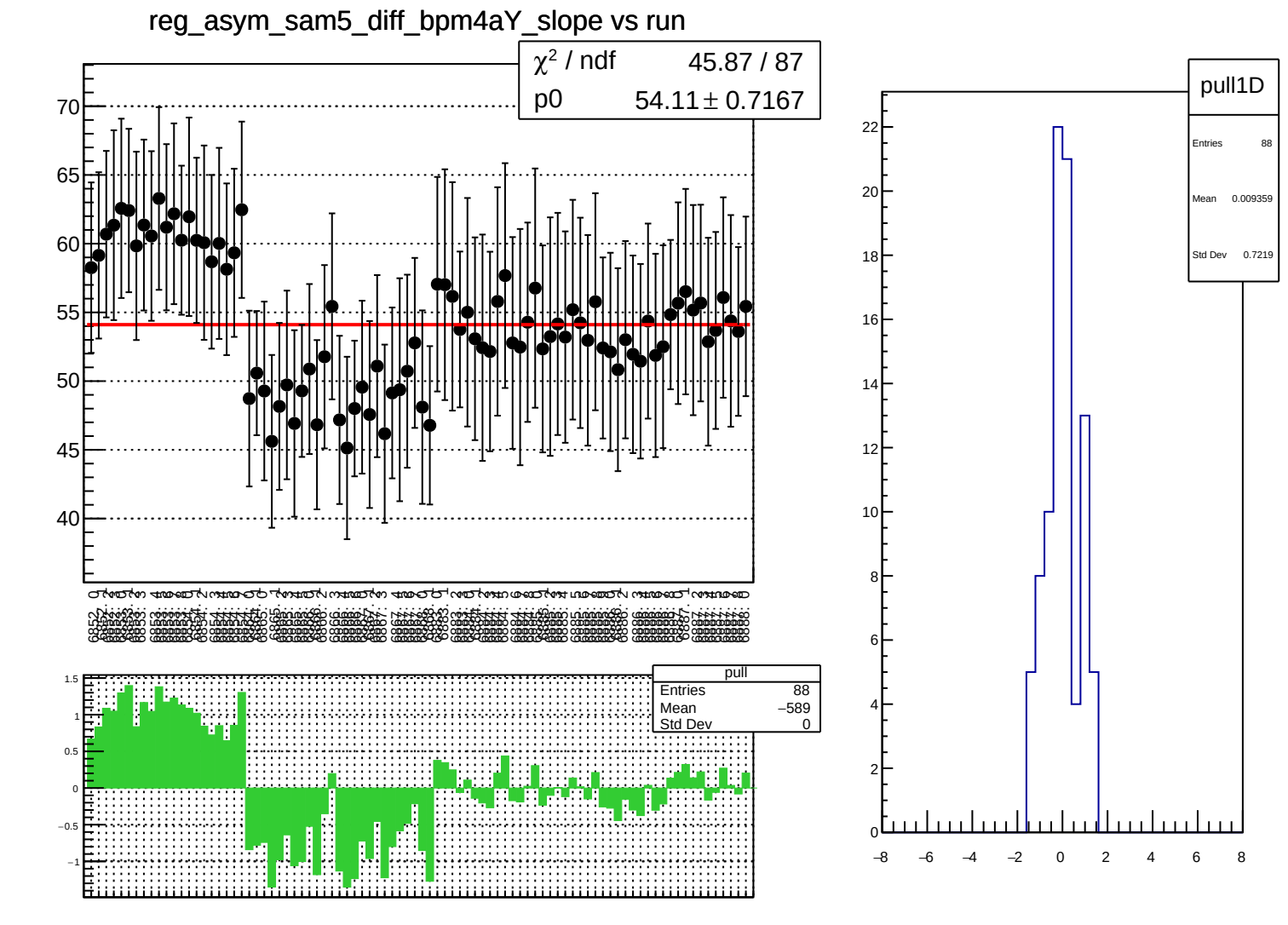

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 106.9 / 87
p0 −152 ± 2.658
0
−50
−100
−150
−200
pull
Entries 88
Mean 57.27
Std Dev 0
5
4
3
2
1
0
−1
pull1D
Entries 88
Mean 0.06884
Std Dev 1.1
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

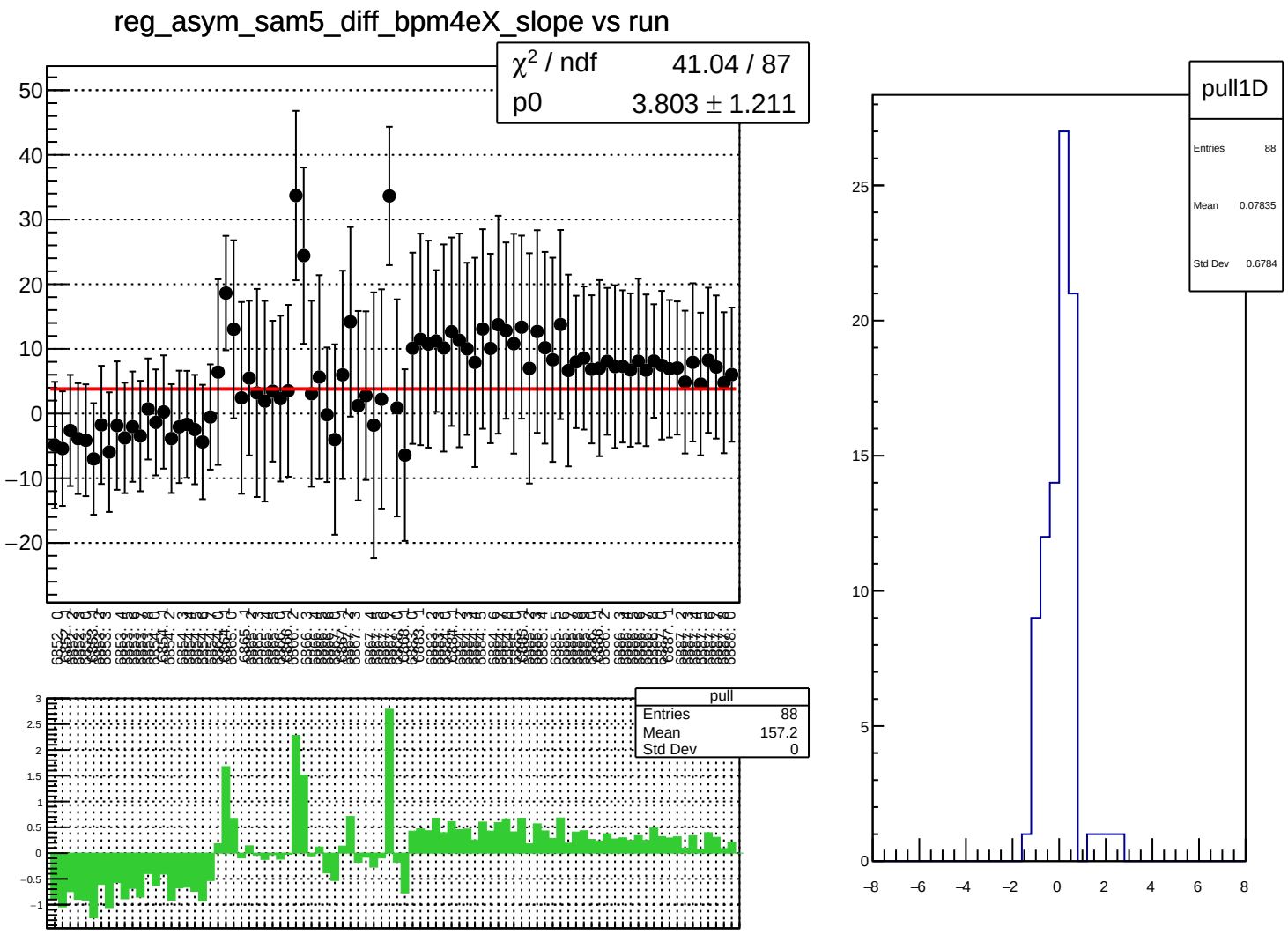

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 30.38 / 87
p0 225.7 ± 1.971
pull
Entries 88
Mean 615.5
Std Dev 0
pull1D
Entries 88
Mean 0.002724
Std Dev 0.5876

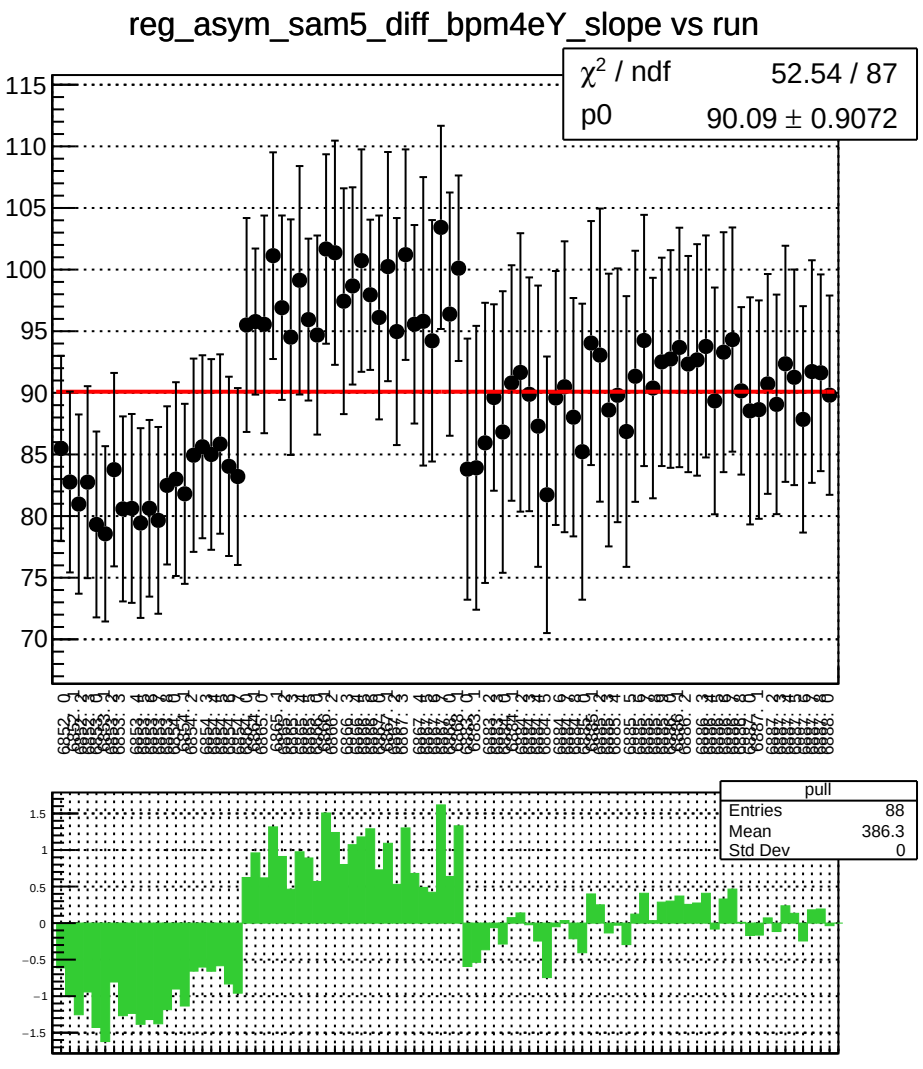

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 93.18 / 87
p0 −0.5711 ± 0.104
pull
Entries 88
Mean 325.3
Std Dev 0
pull1D
Entries 88
Mean −0.08302
Std Dev 1.026

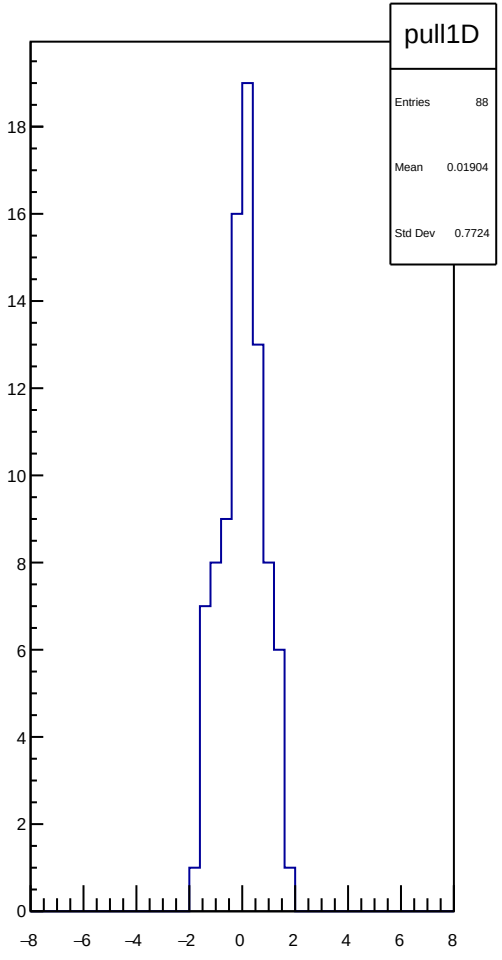

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 46.07 / 87
p0 7.013 ± 1.273
pull
Entries 88
Mean 167
Std Dev 0

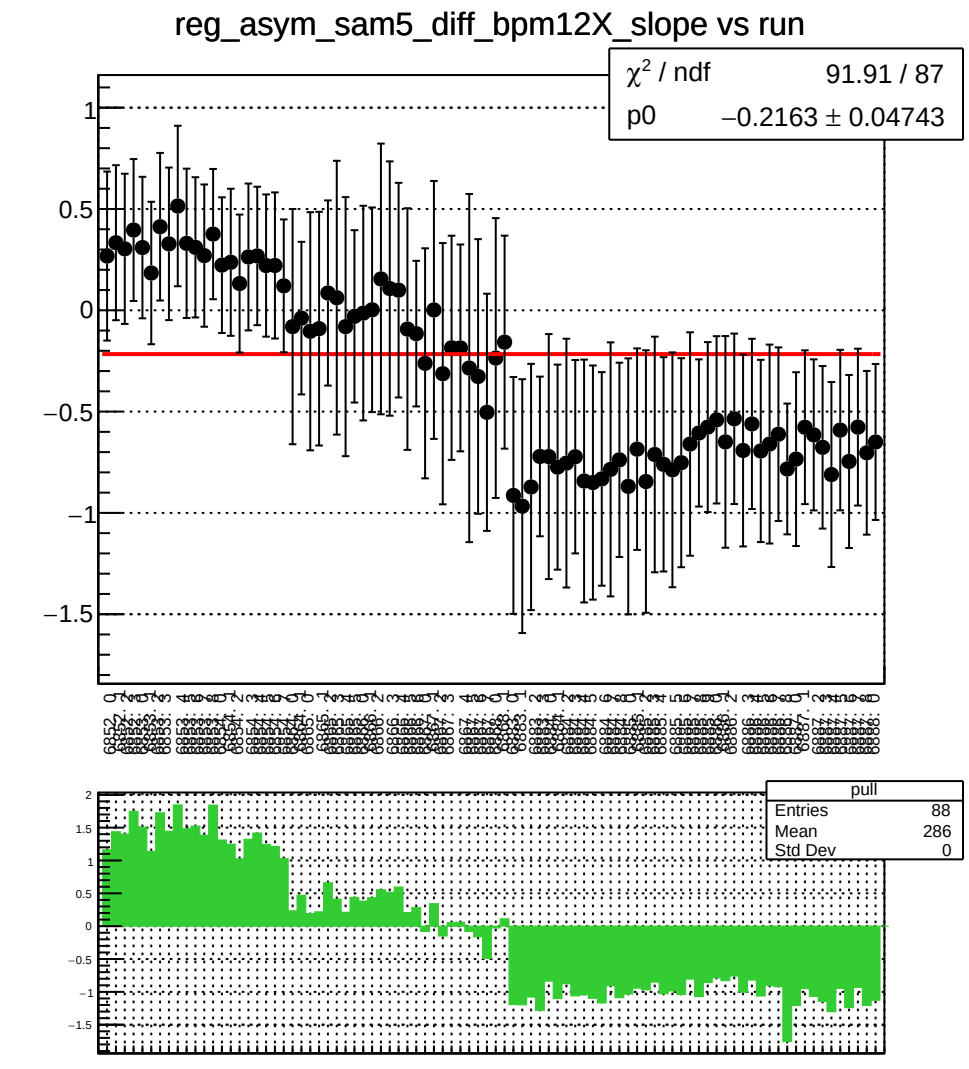

pull1D
Entries 88
Mean −0.07981
Std Dev 0.7191

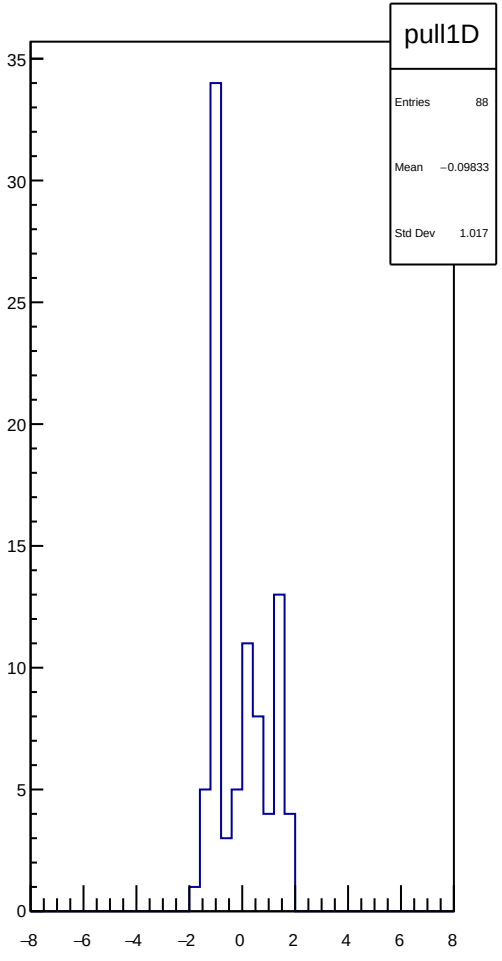

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 45.87 / 87
p0 54.11 ± 0.7167
pull
Entries 88
Mean −589
Std Dev 0
pull1D
Entries 88
Mean 0.009359
Std Dev 0.7219

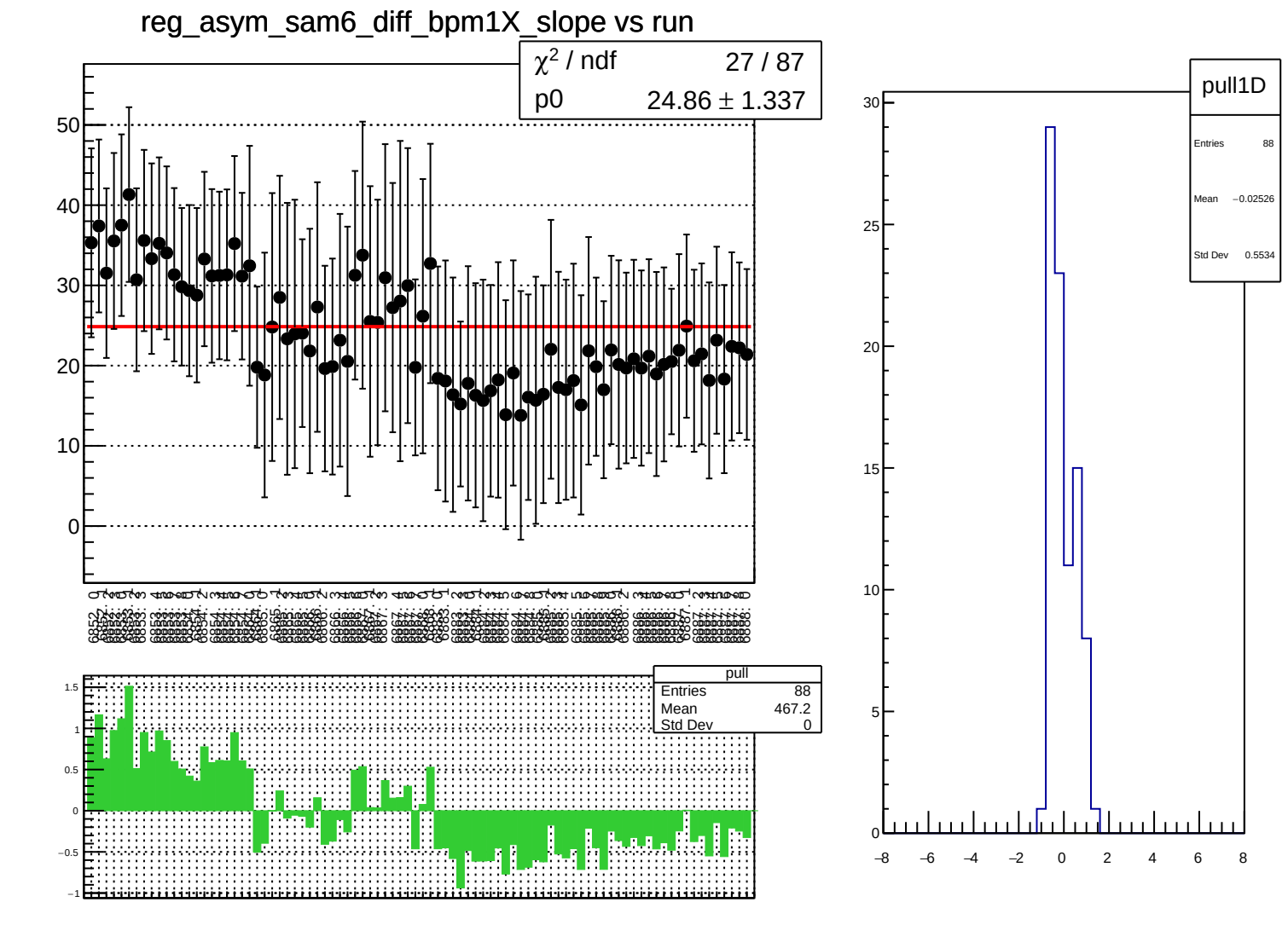

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 41.04 / 87
p0 3.803 ± 1.211
pull
Entries 88
Mean 157.2
Std Dev 0
pull1D
Entries 88
Mean 0.07835
Std Dev 0.6784

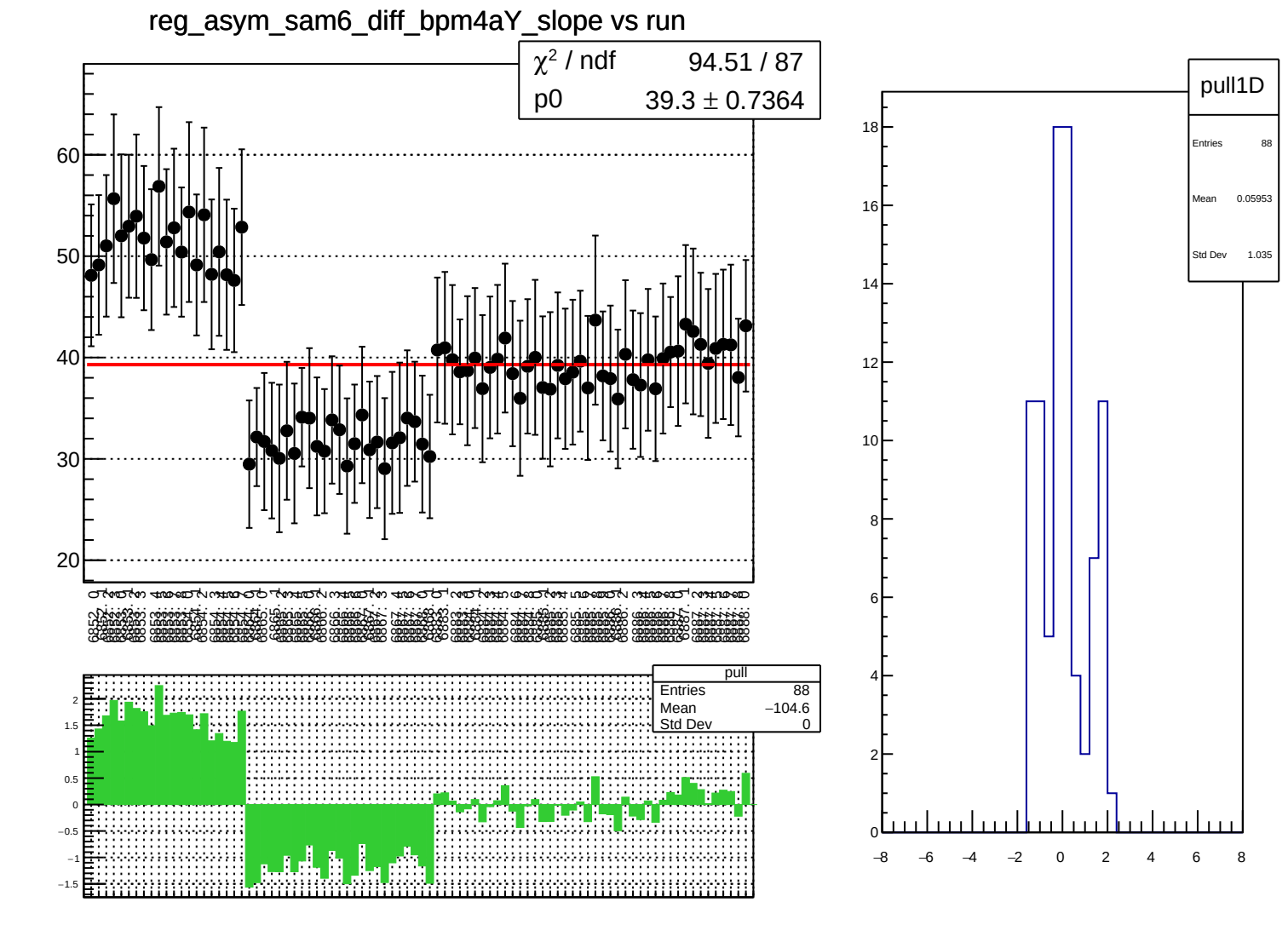

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 52.54 / 87
p0 90.09 ± 0.9072
pull
Entries 88
Mean 386.3
Std Dev 0

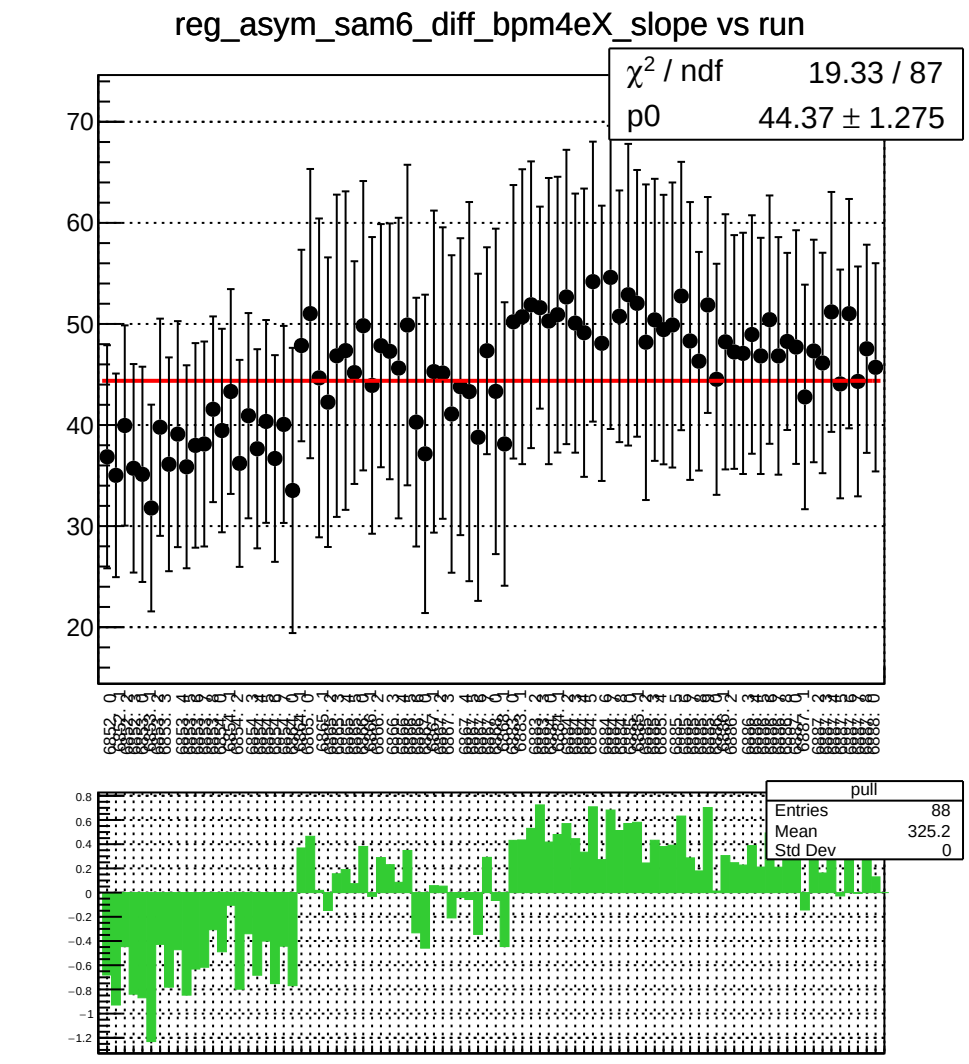

pull1D
Entries 88
Mean 0.01904
Std Dev 0.7724

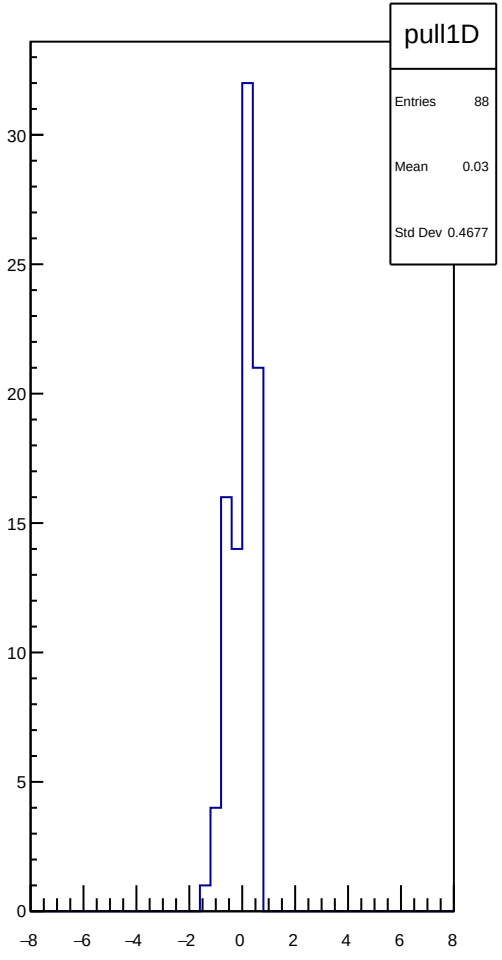

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 91.91 / 87
p0 −0.2163 ± 0.04743
pull
Entries 88
Mean 286
Std Dev 0

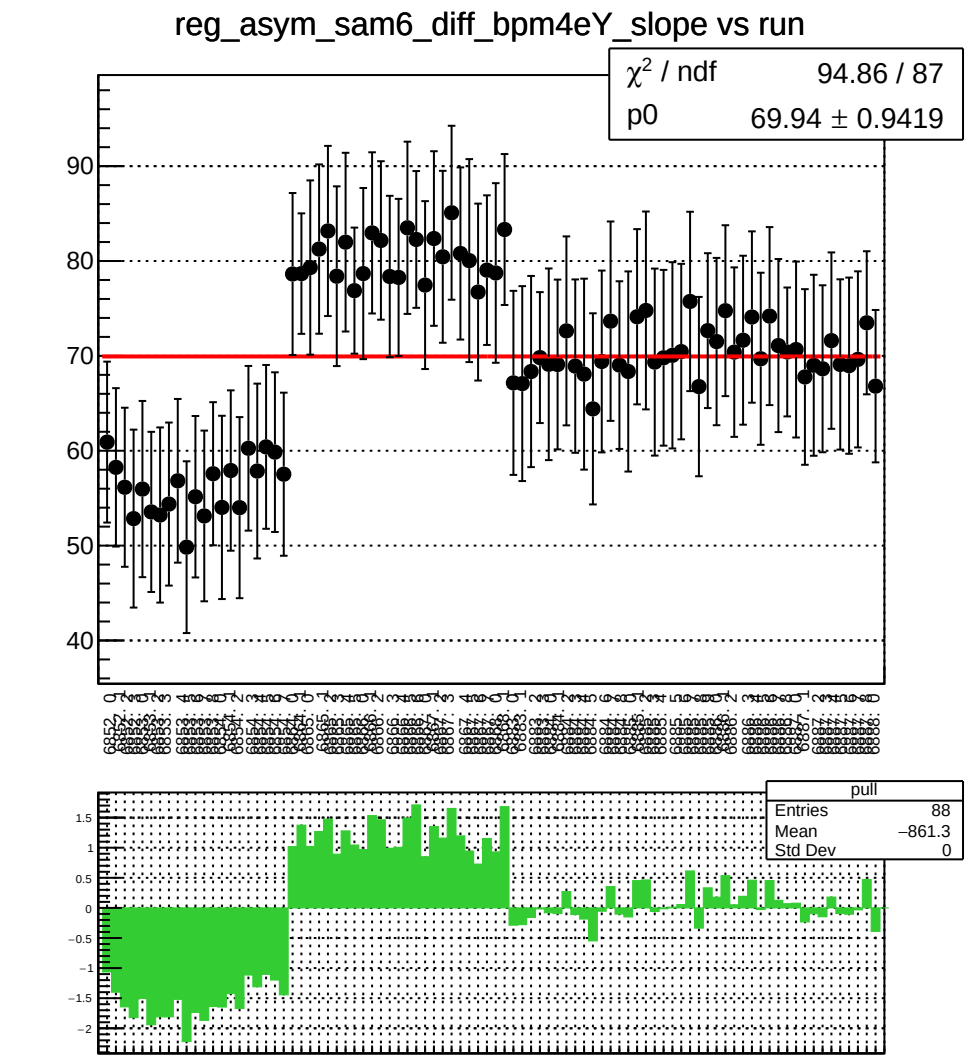

pull1D
Entries 88
Mean −0.09833
Std Dev 1.017

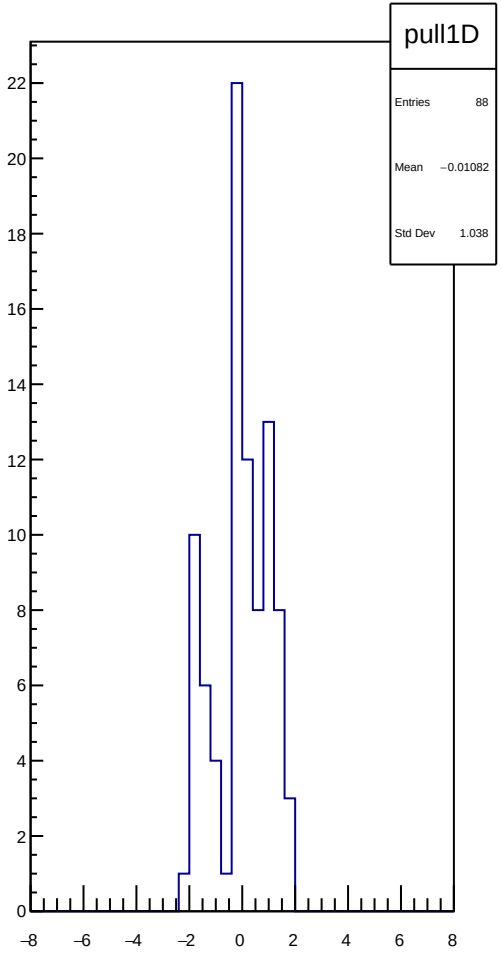

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 27 / 87
p0 24.86 ± 1.337
pull
Entries 88
Mean 467.2
Std Dev 0
pull1D
Entries 88
Mean −0.02526
Std Dev 0.5534

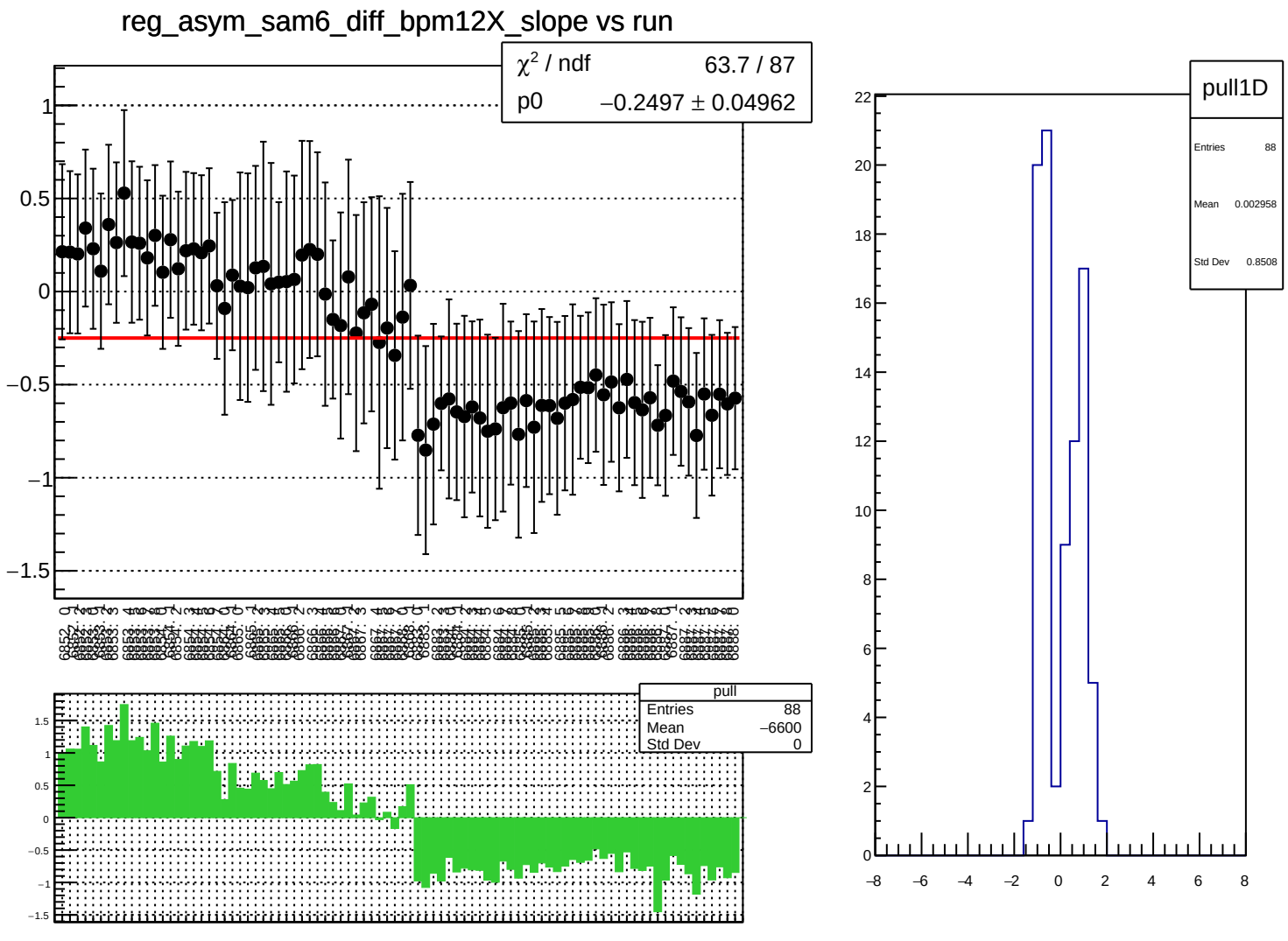

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 94.51 / 87
p0 39.3 ± 0.7364
pull
Entries 88
Mean −104.6
Std Dev 0
pull1D
Entries 88
Mean 0.05953
Std Dev 1.035

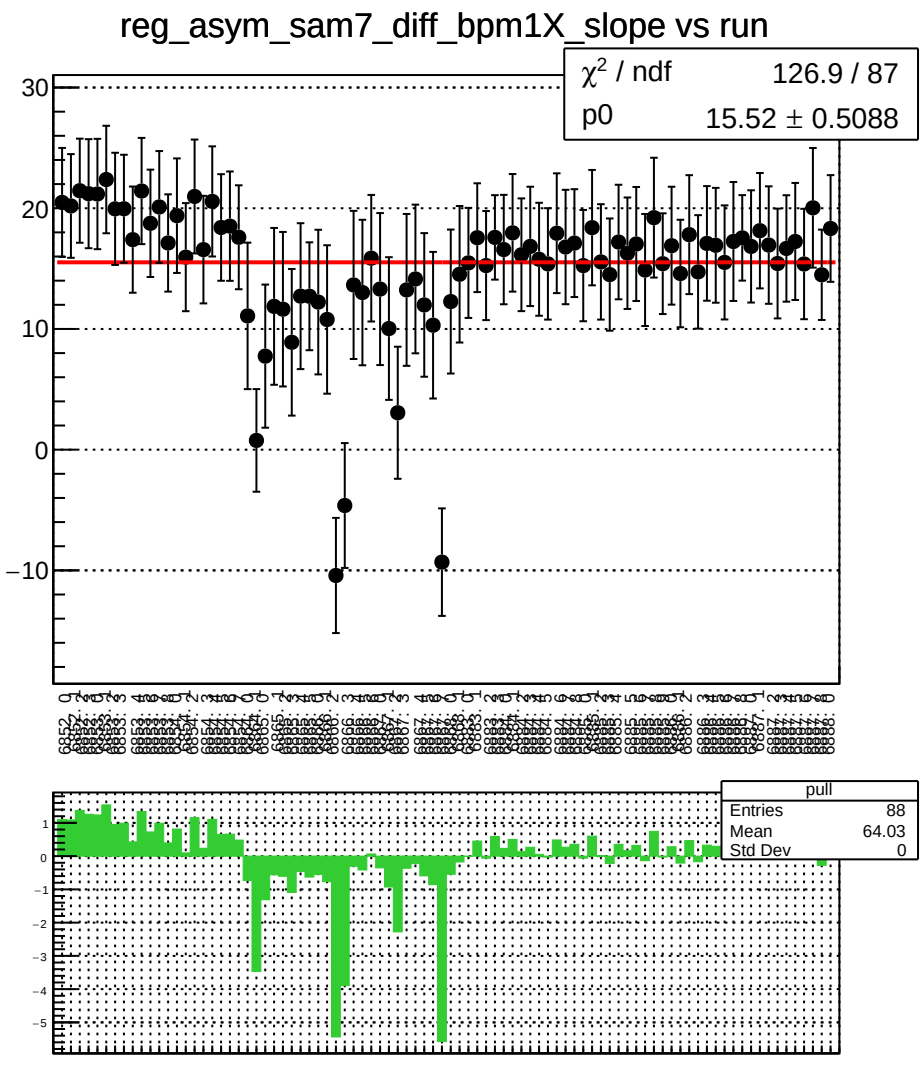

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 19.33 / 87
p0 44.37 ± 1.275
pull
Entries 88
Mean 325.2
Std Dev 0

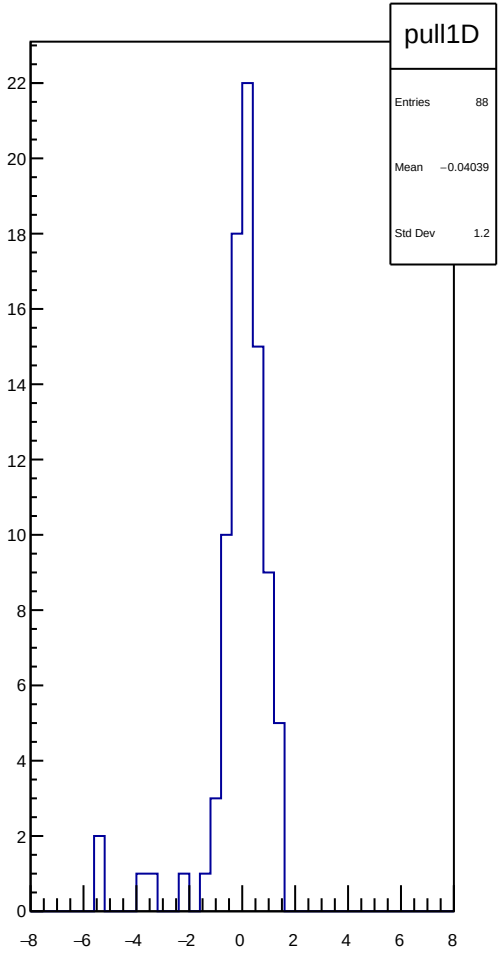

pull1D
Entries 88
Mean 0.03
Std Dev 0.4677

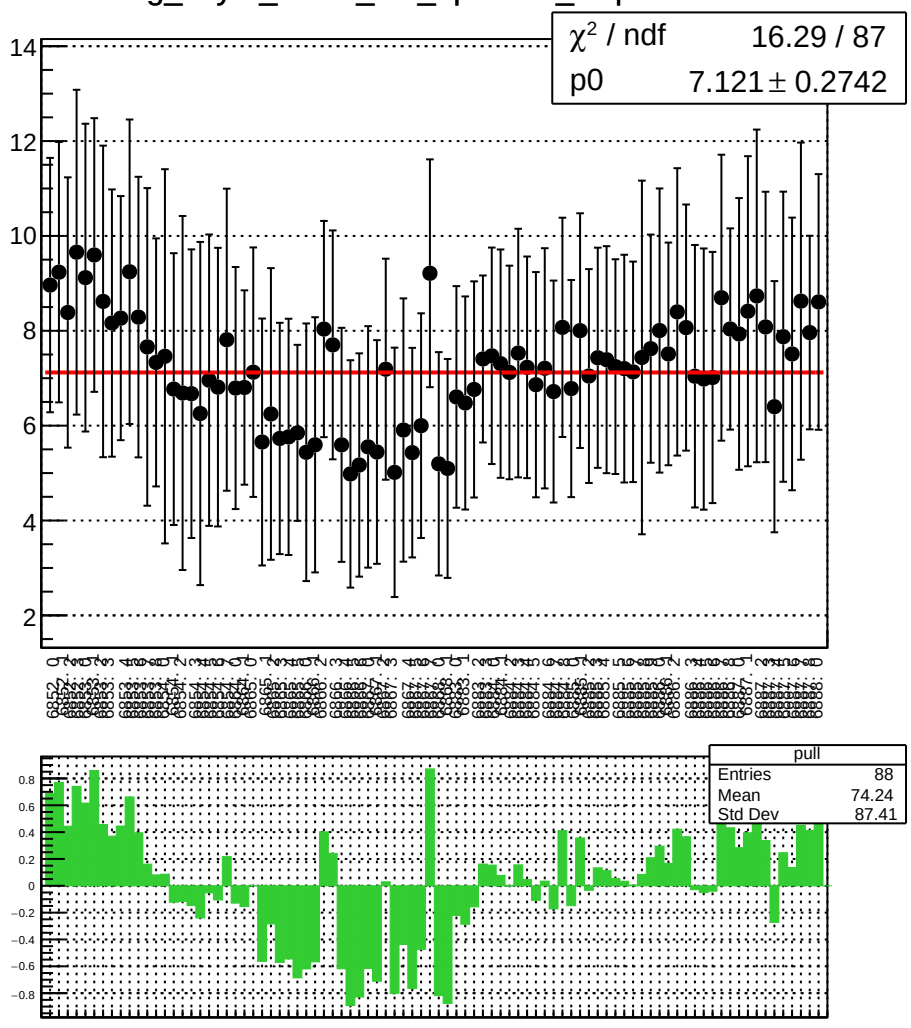

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 94.86 / 87
p0 69.94 ± 0.9419
pull
Entries 88
Mean −861.3
Std Dev 0

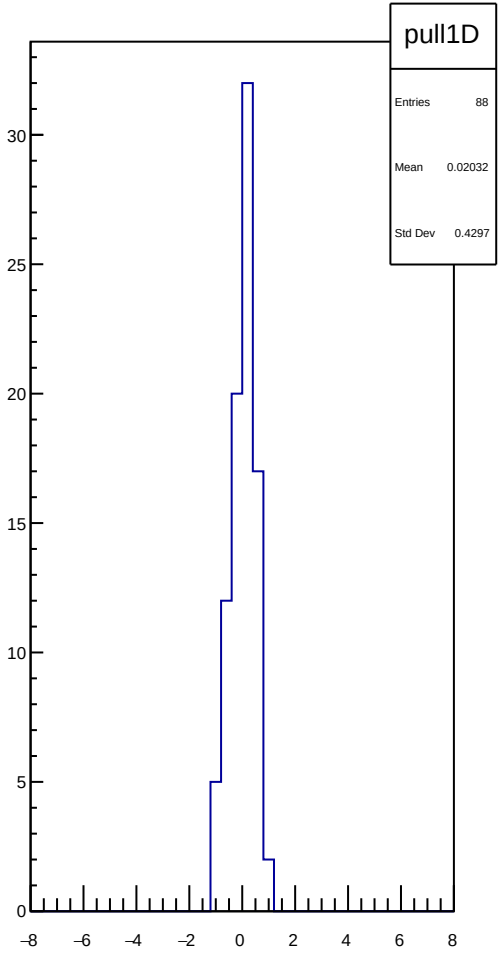

pull1D
Entries 88
Mean −0.01082
Std Dev 1.038

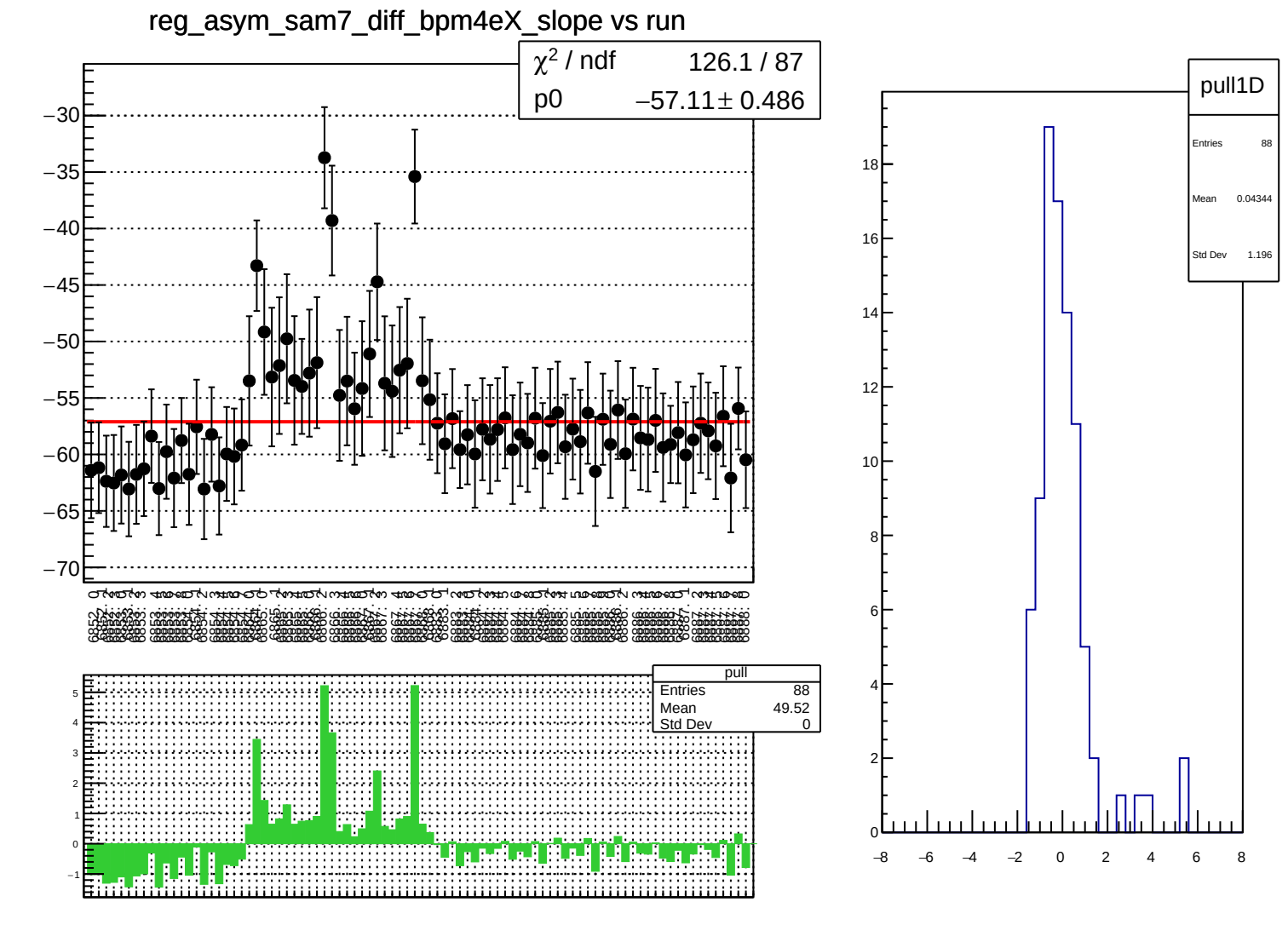

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 63.7 / 87
p0 −0.2497 ± 0.04962
pull
Entries 88
Mean −6600
Std Dev 0
pull1D
Entries 88
Mean 0.002958
Std Dev 0.8508

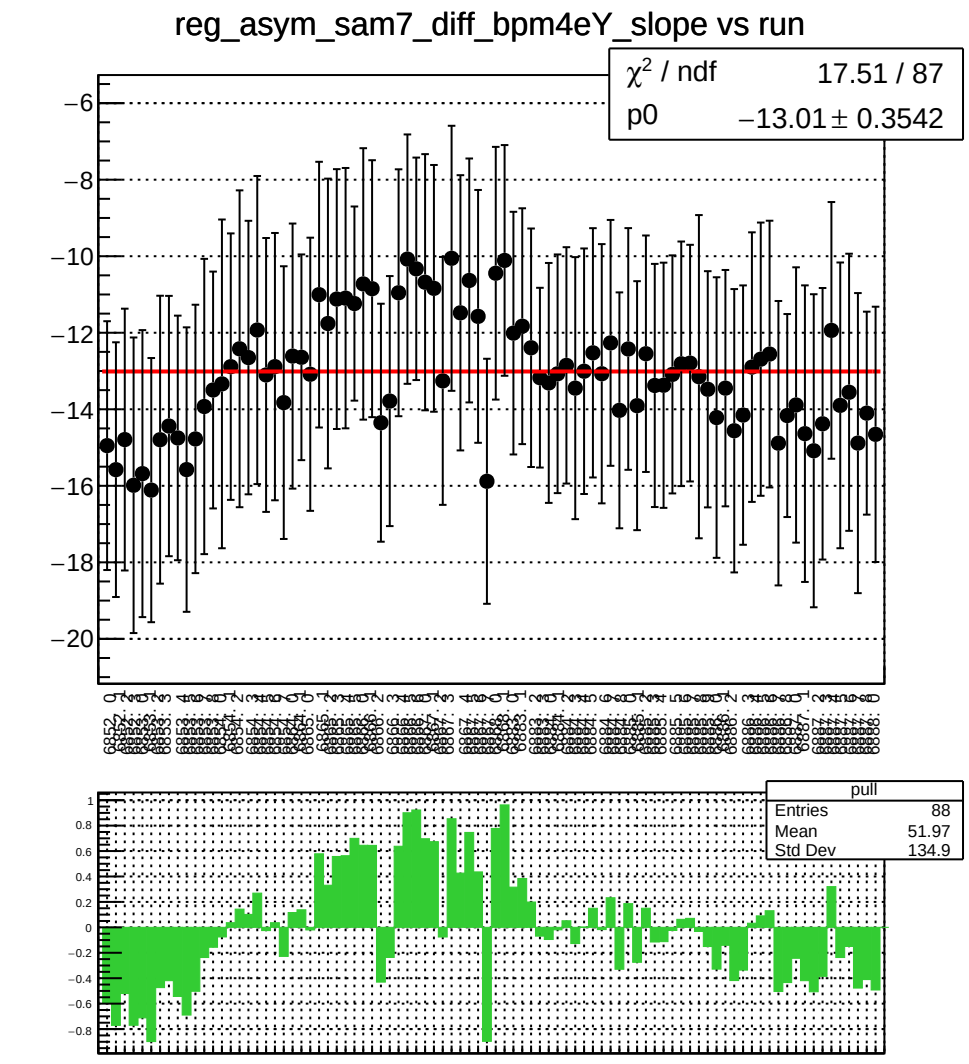

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 126.9 / 87
p0 15.52 ± 0.5088
30
20
10
0
−10
pull
Entries 88
Mean 64.03
Std Dev 0
1
0
−1
−2
−3
−4
−5

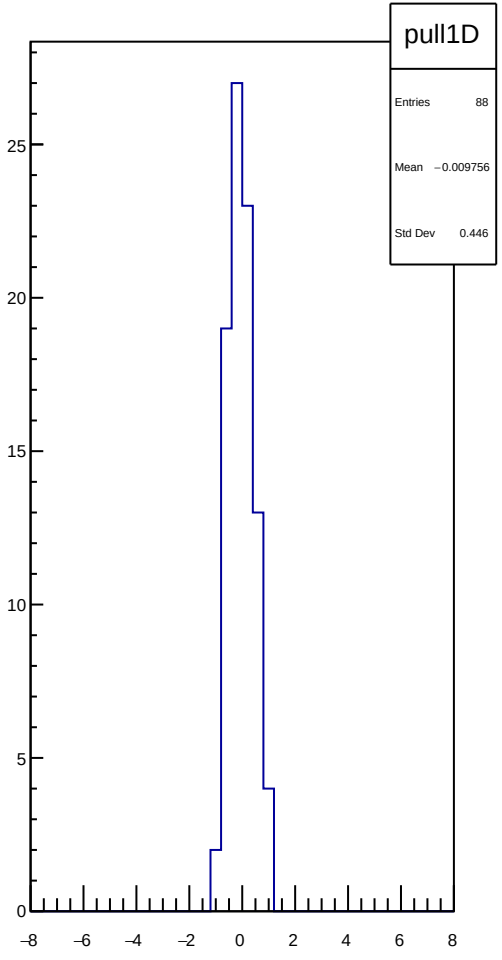

pull1D
Entries 88
Mean −0.04039
Std Dev 1.2
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

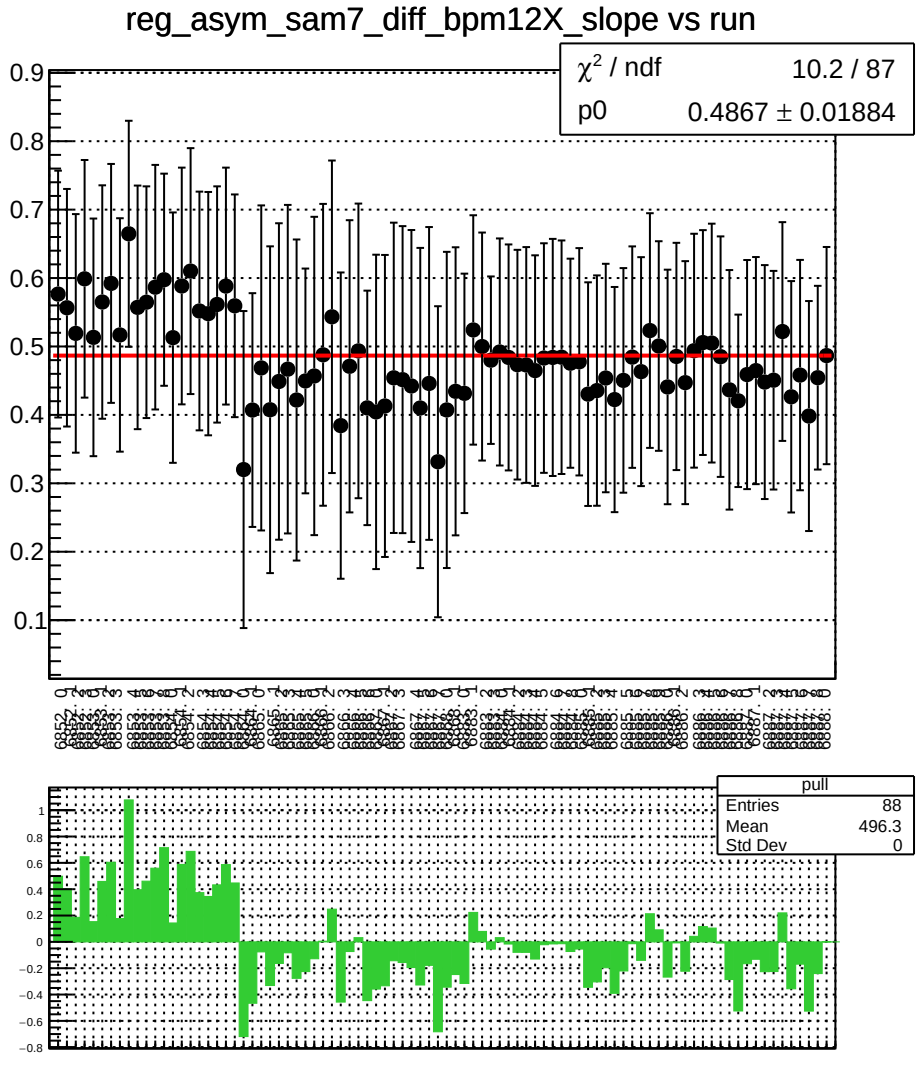

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 16.29 / 87
p0 7.121 ± 0.2742
pull
Entries 88
Mean 74.24
Std Dev 87.41

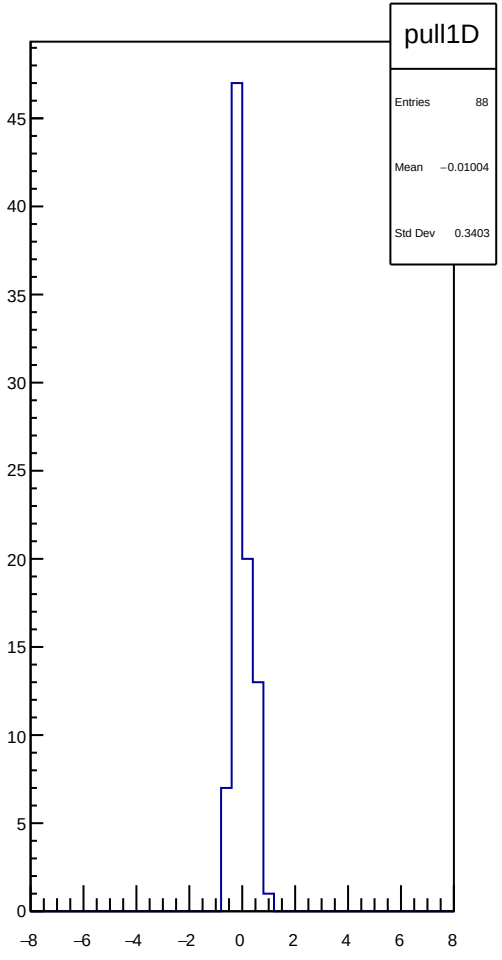

pull1D
Entries 88
Mean 0.02032
Std Dev 0.4297

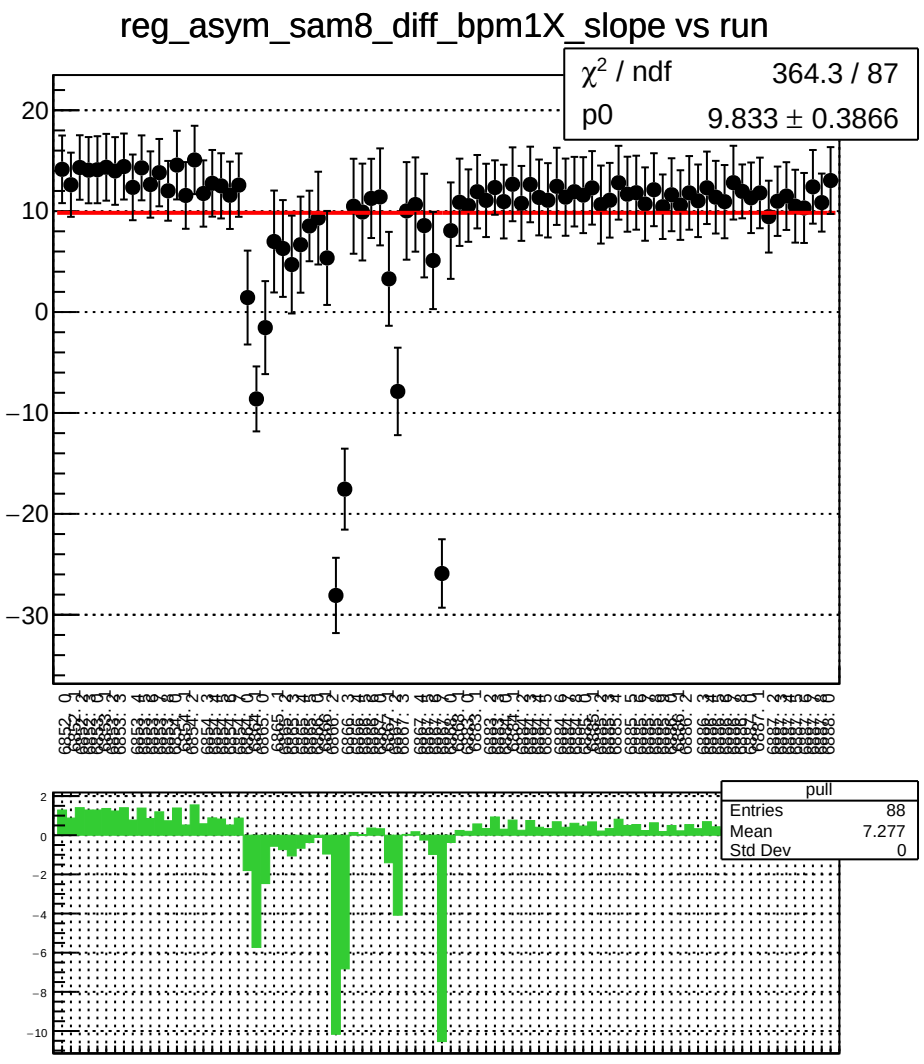

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 126.1 / 87
p0 −57.11 ± 0.486
pull
Entries 88
Mean 49.52
Std Dev 0
pull1D
Entries 88
Mean 0.04344
Std Dev 1.196

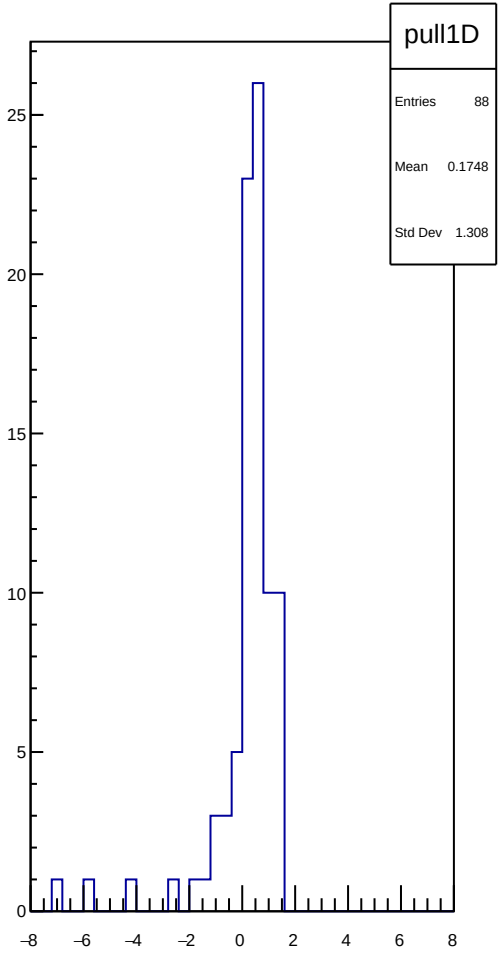

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 17.51 / 87
p0 −13.01 ± 0.3542
pull
Entries 88
Mean 51.97
Std Dev 134.9

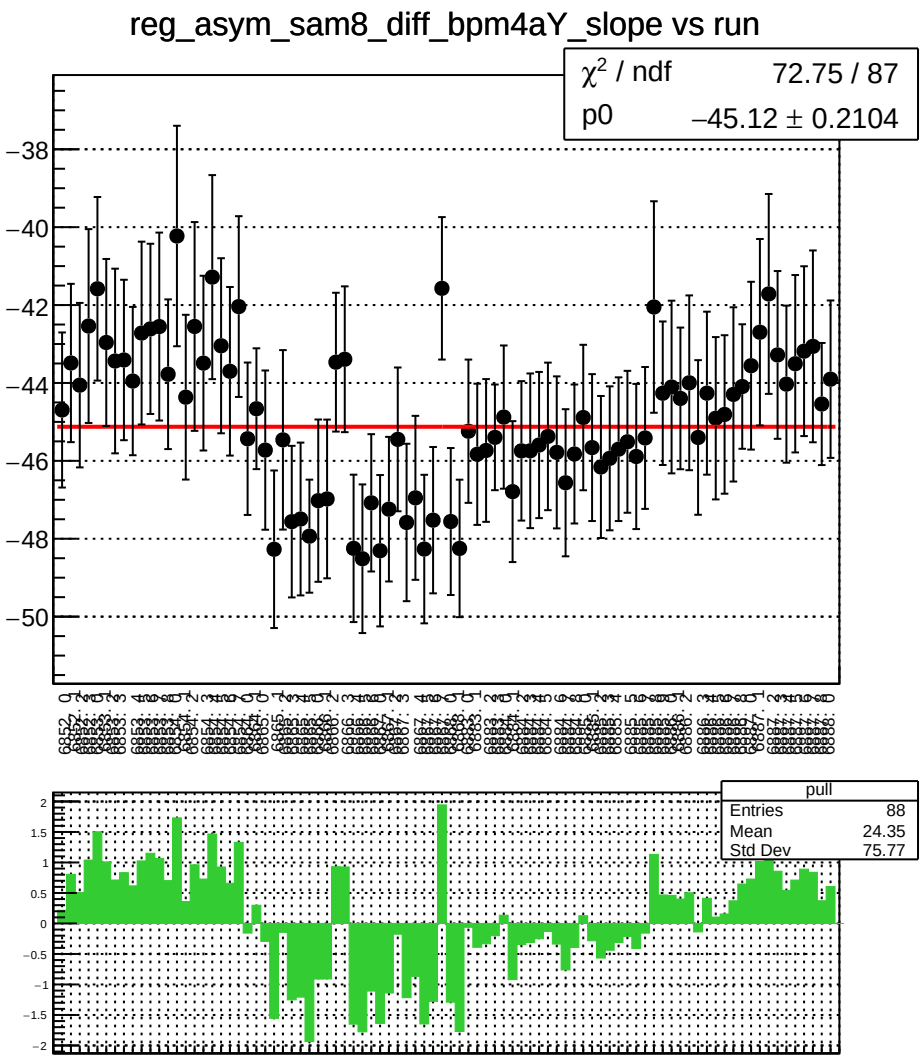

pull1D
Entries 88
Mean −0.009756
Std Dev 0.446

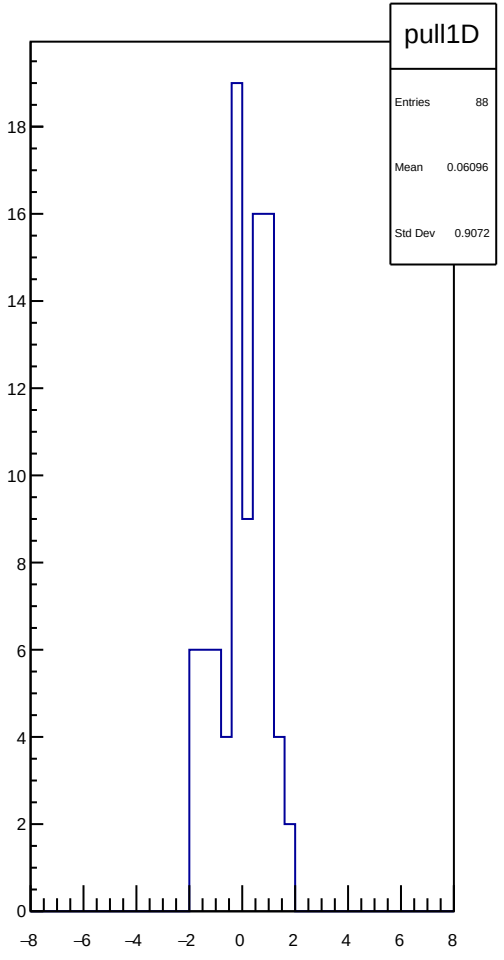

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 10.2 / 87
p0 0.4867 ± 0.01884
pull
Entries 88
Mean 496.3
Std Dev 0

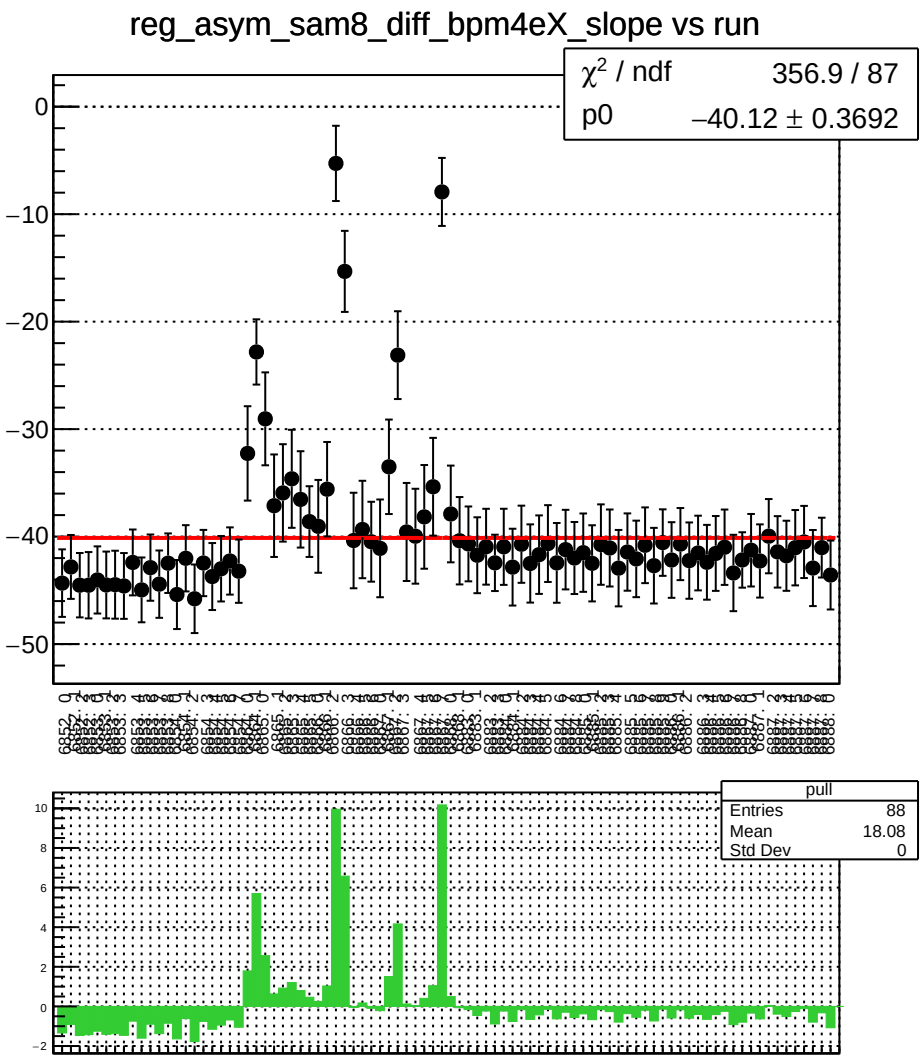

pull1D
Entries 88
Mean −0.01004
Std Dev 0.3403

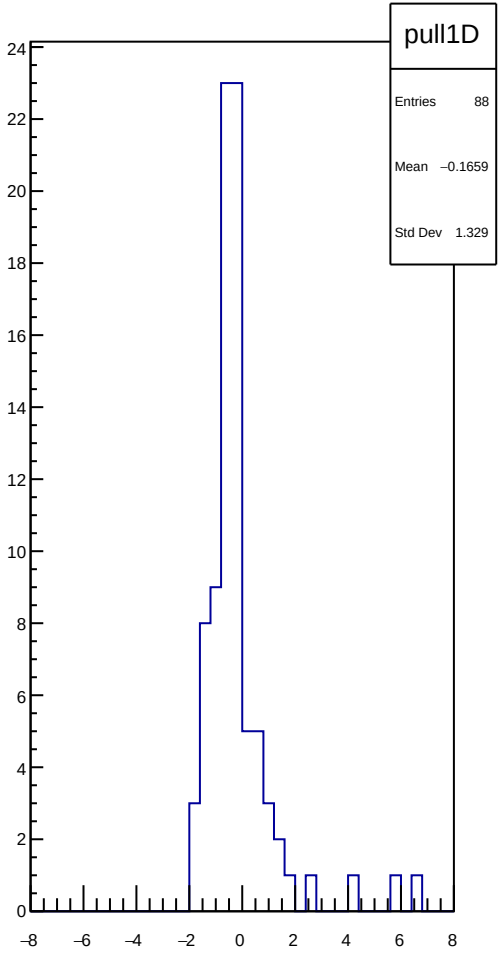

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 364.3 / 87
p0 9.833 ± 0.3866
pull
Entries 88
Mean 7.277
Std Dev 0

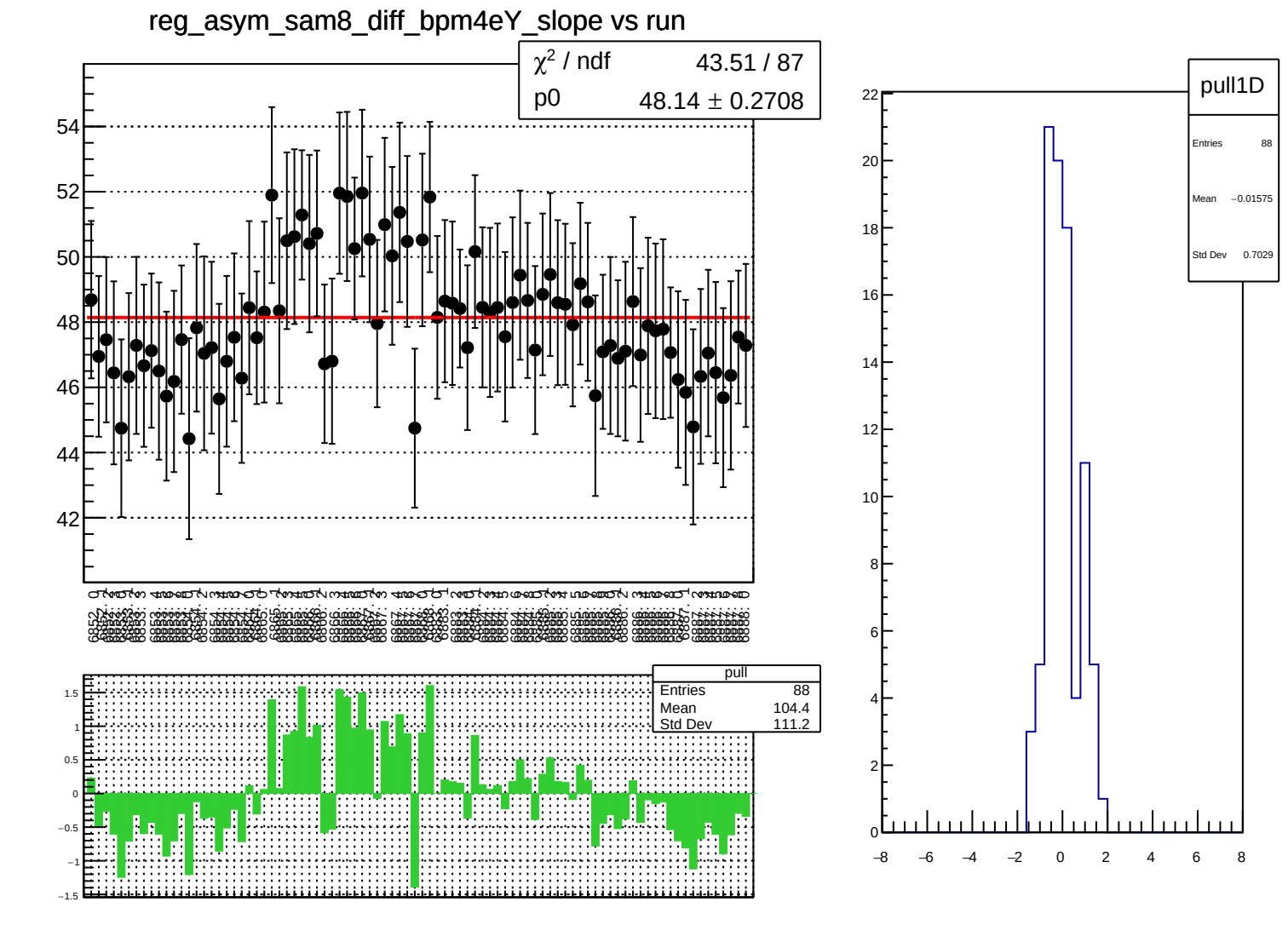

pull1D
Entries 88
Mean 0.1748
Std Dev 1.308

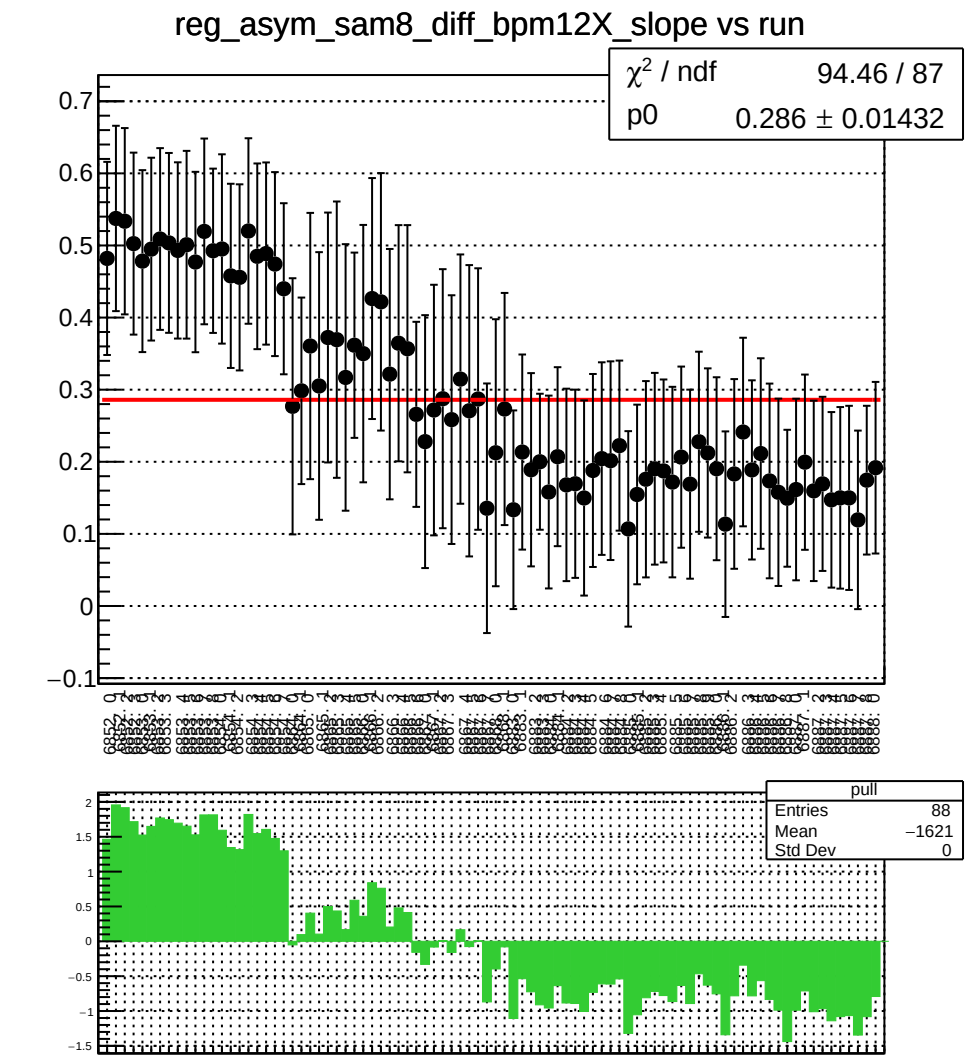

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 72.75 / 87
p0 −45.12 ± 0.2104
pull
Entries 88
Mean 24.35
Std Dev 75.77

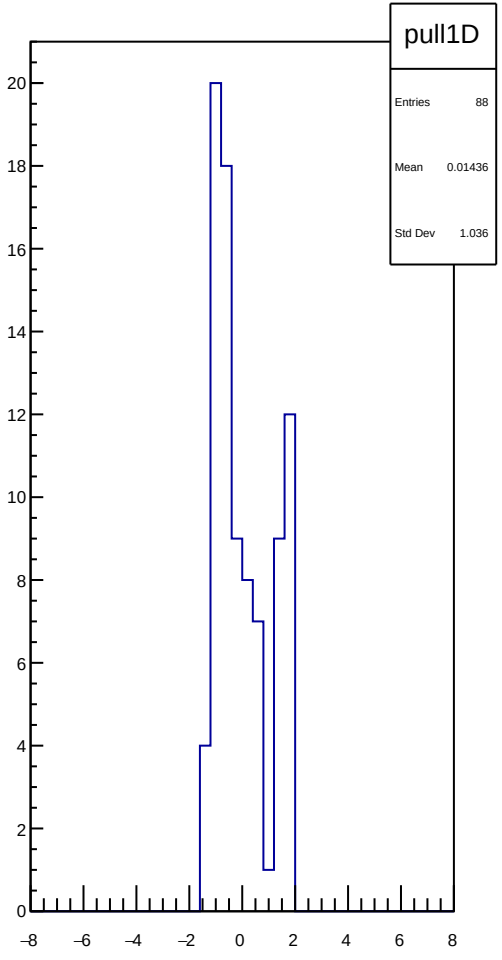

pull1D
Entries 88
Mean 0.06096
Std Dev 0.9072

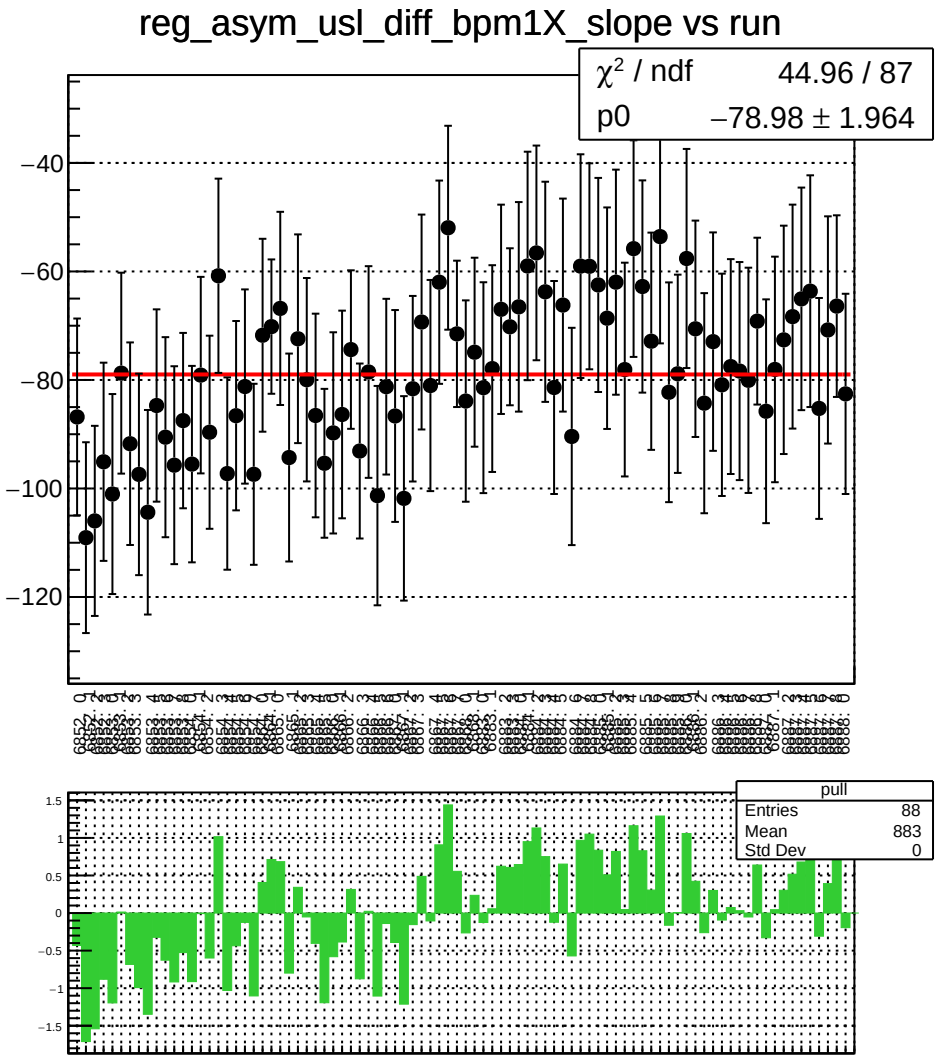

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 356.9 / 87
p0 −40.12 ± 0.3692
pull
Entries 88
Mean 18.08
Std Dev 0

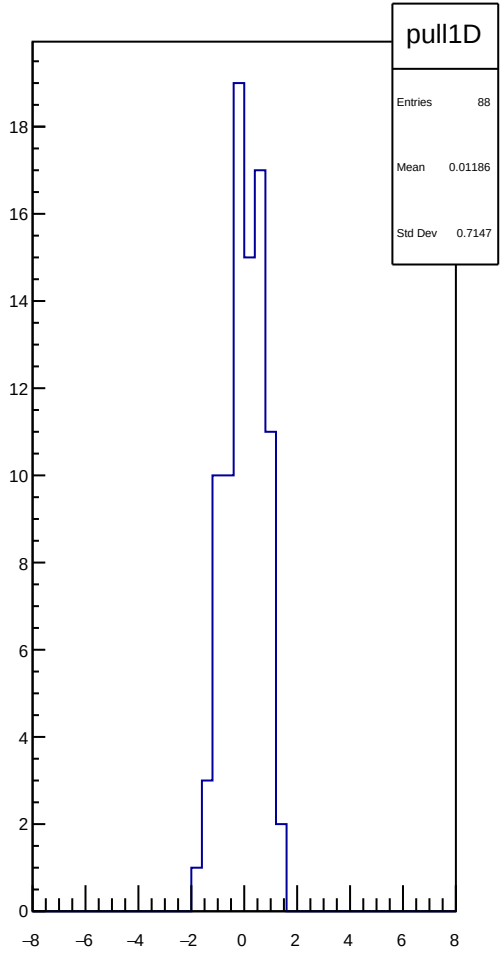

pull1D
Entries 88
Mean −0.1659
Std Dev 1.329

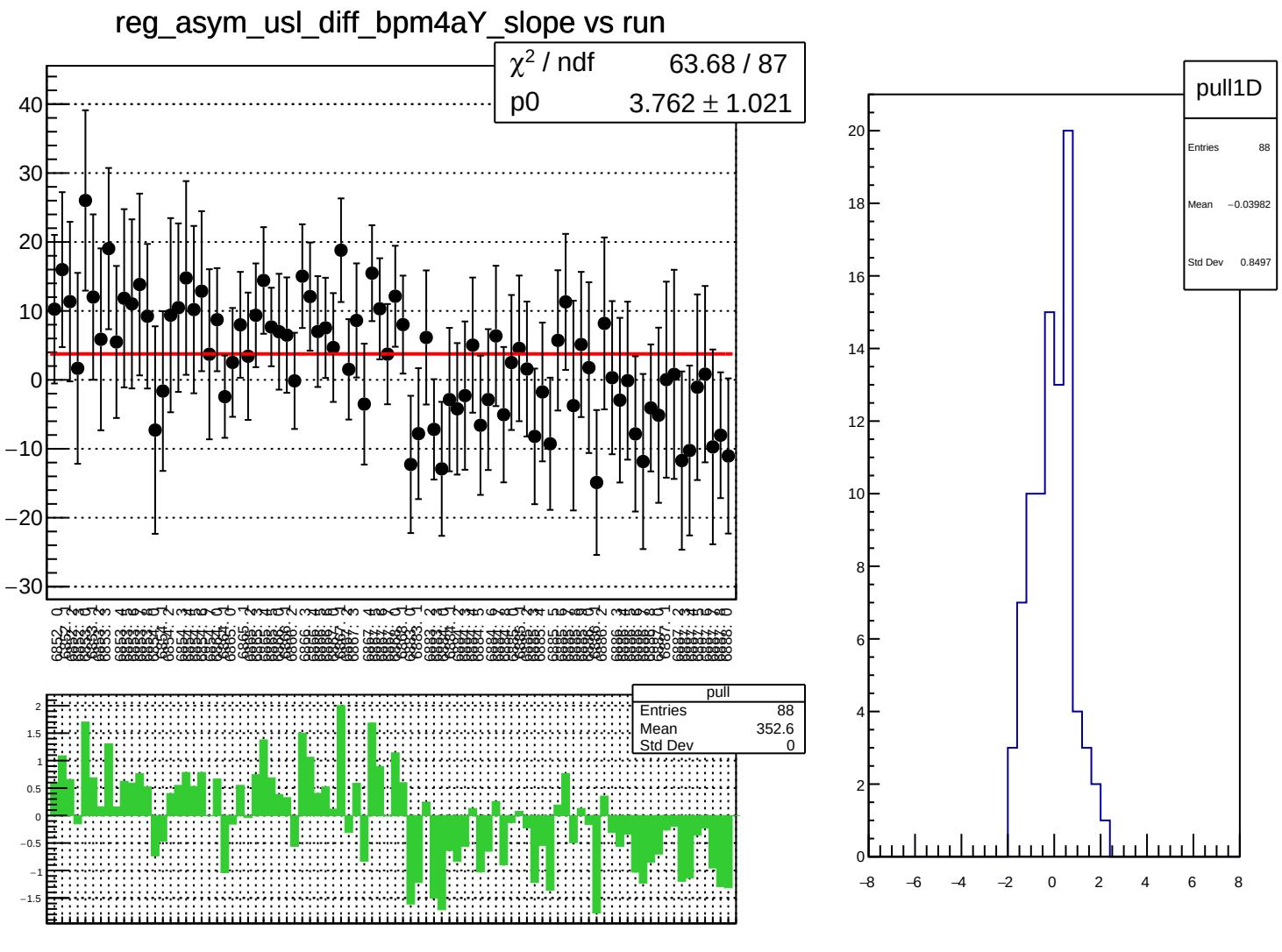

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 43.51 / 87
p0 48.14 ± 0.2708
pull
Entries 88
Mean 104.4
Std Dev 111.2
pull1D
Entries 88
Mean −0.01575
Std Dev 0.7029

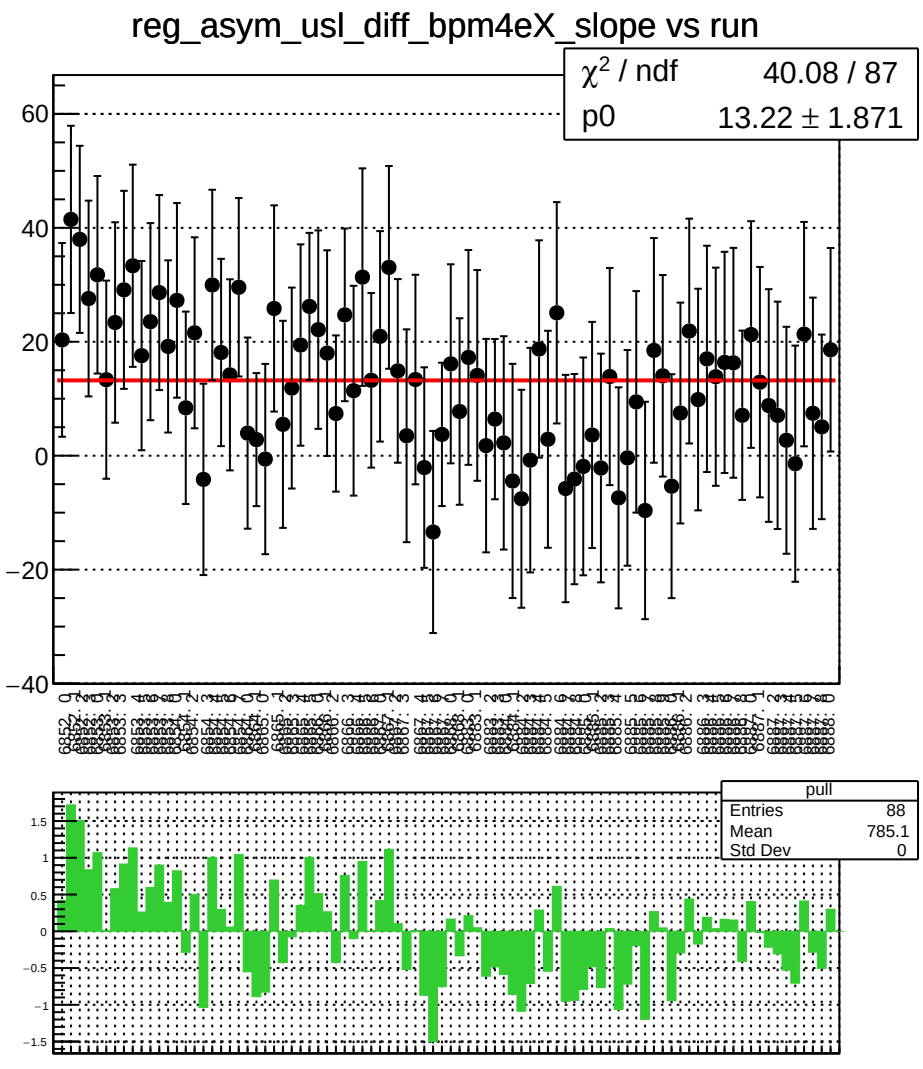

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 94.46 / 87
p0 0.286 ± 0.01432
pull
Entries 88
Mean −1621
Std Dev 0

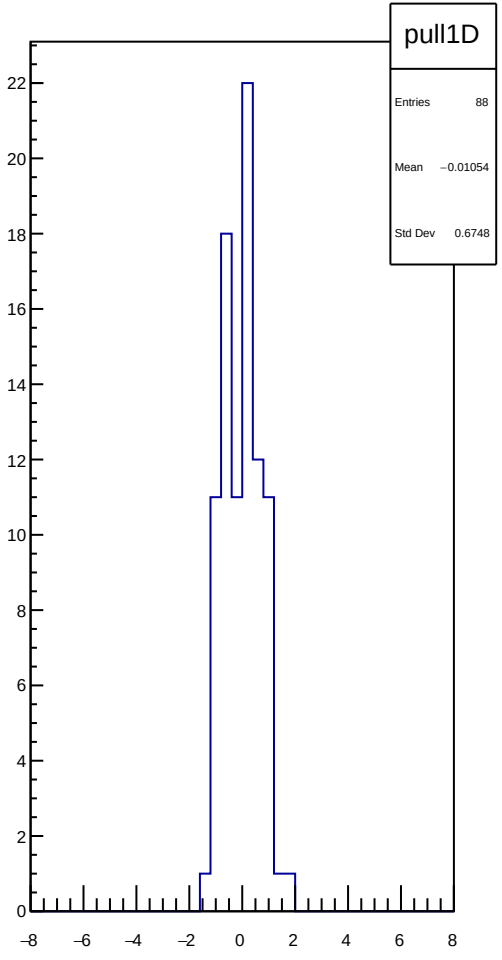

pull1D
Entries 88
Mean 0.01436
Std Dev 1.036

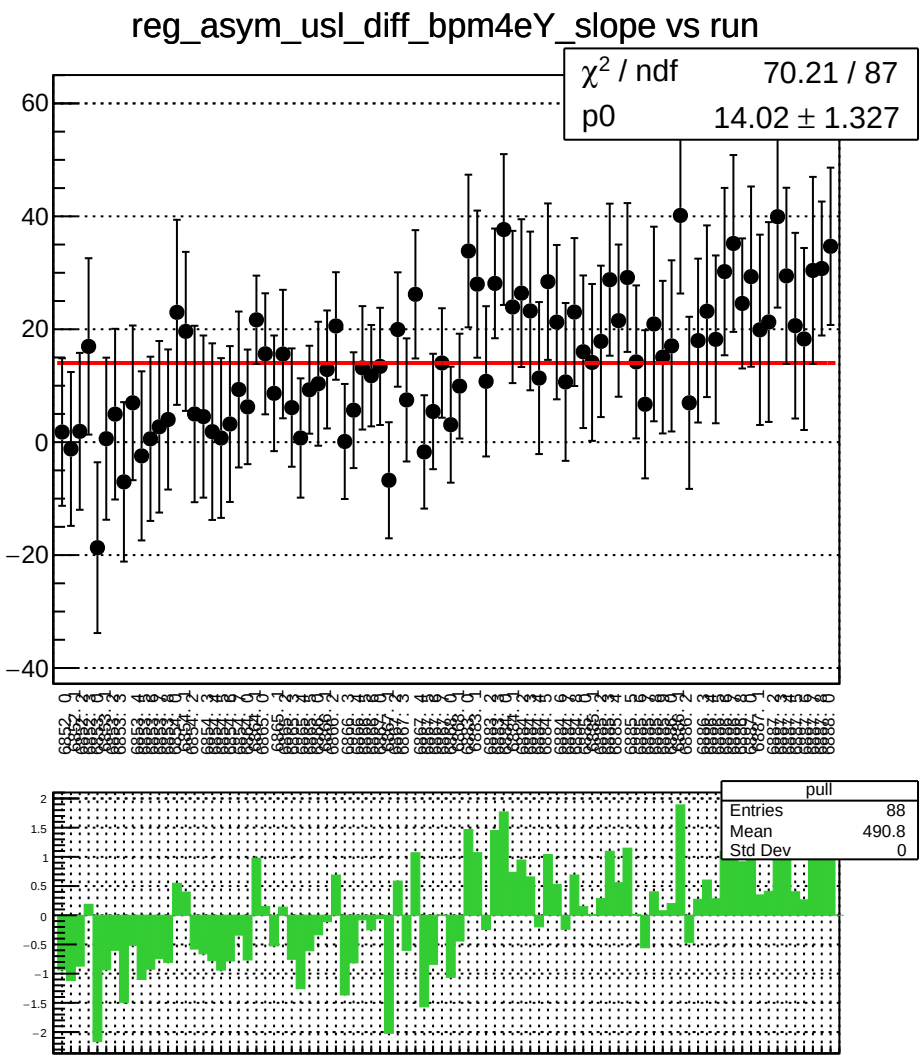

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 44.96 / 87
p0 −78.98 ± 1.964
−40
−60
−80
−100
−120
pull
Entries 88
Mean 883
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

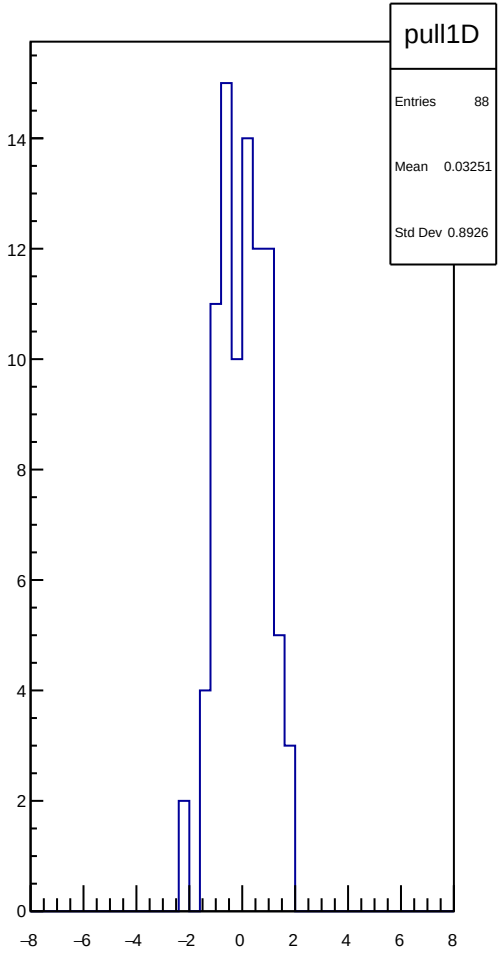

pull1D
Entries 88
Mean 0.01186
Std Dev 0.7147
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

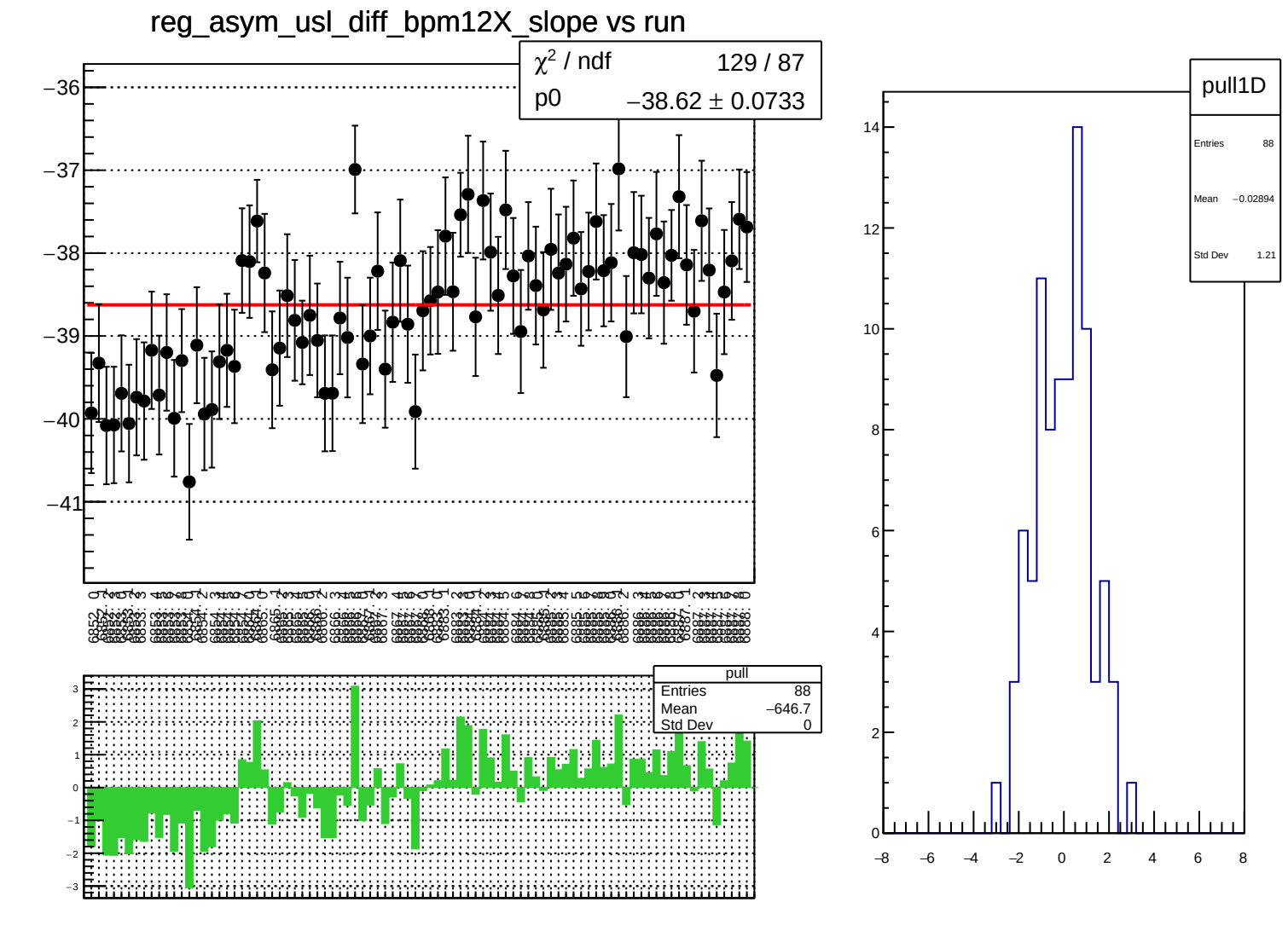

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 63.68 / 87
p0 3.762 ± 1.021
pull
Entries 88
Mean 352.6
Std Dev 0
pull1D
Entries 88
Mean −0.03982
Std Dev 0.8497

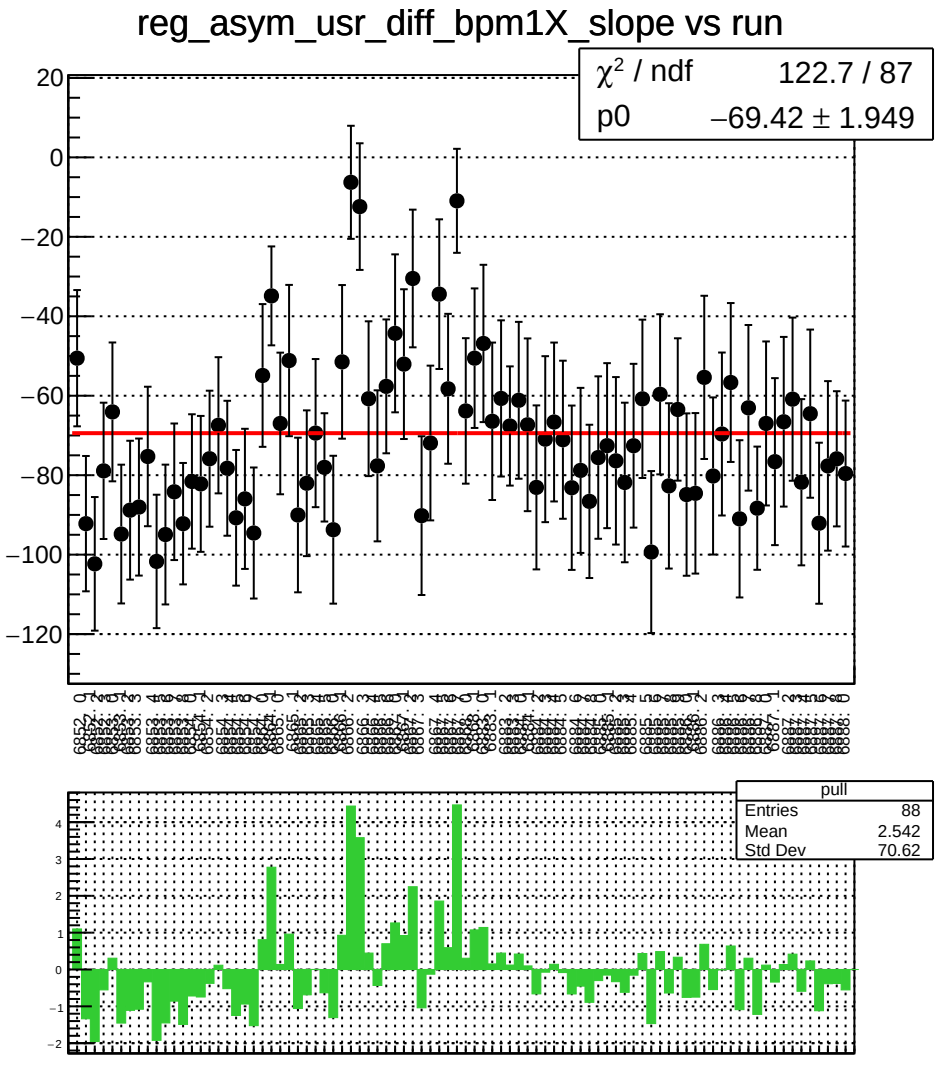

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 40.08 / 87
p0 13.22 ± 1.871
pull
Entries 88
Mean 785.1
Std Dev 0

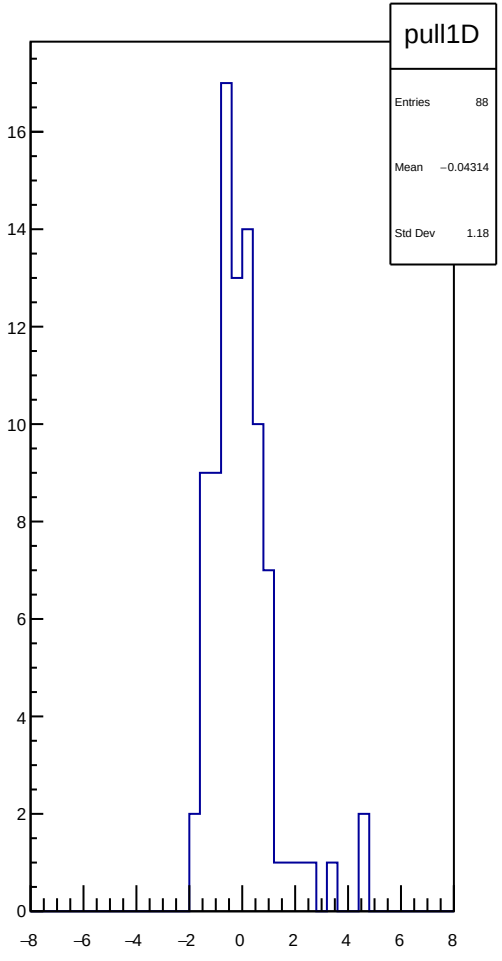

pull1D
Entries 88
Mean −0.01054
Std Dev 0.6748

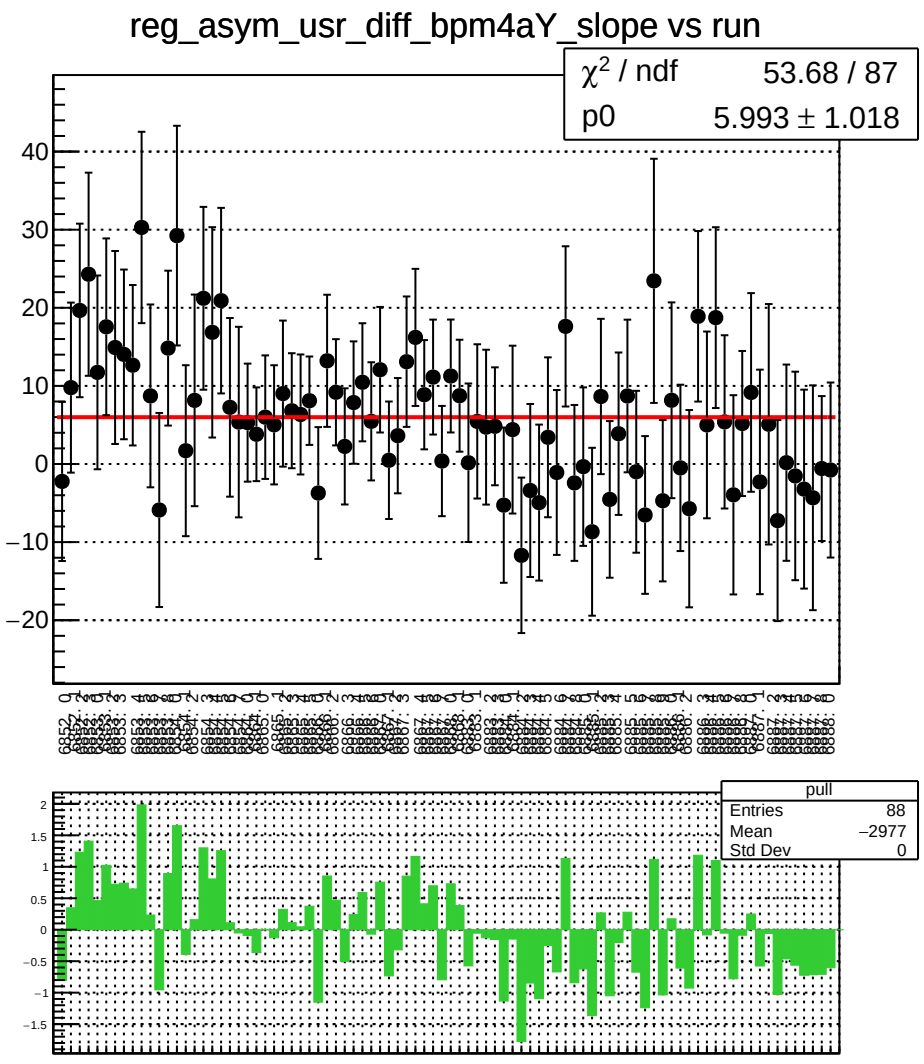

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 70.21 / 87
p0 14.02 ± 1.327
pull
Entries 88
Mean 490.8
Std Dev 0

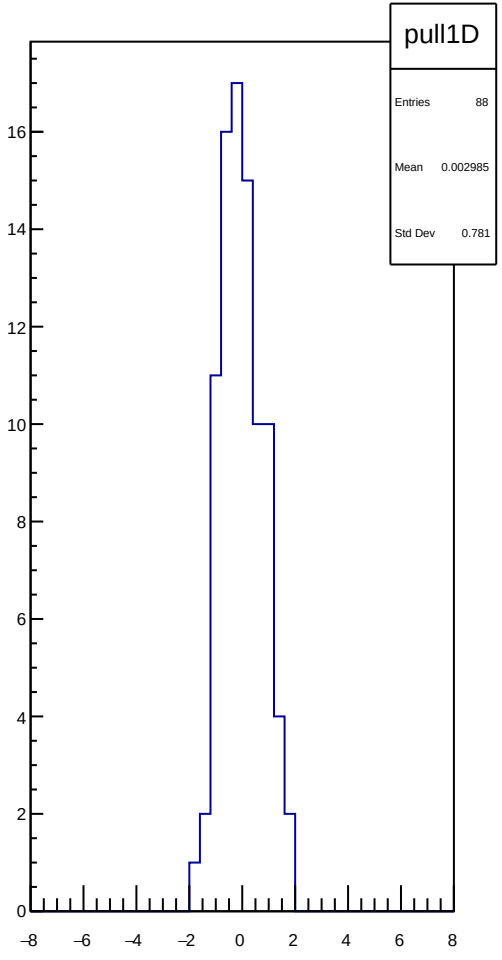

pull1D
Entries 88
Mean 0.03251
Std Dev 0.8926

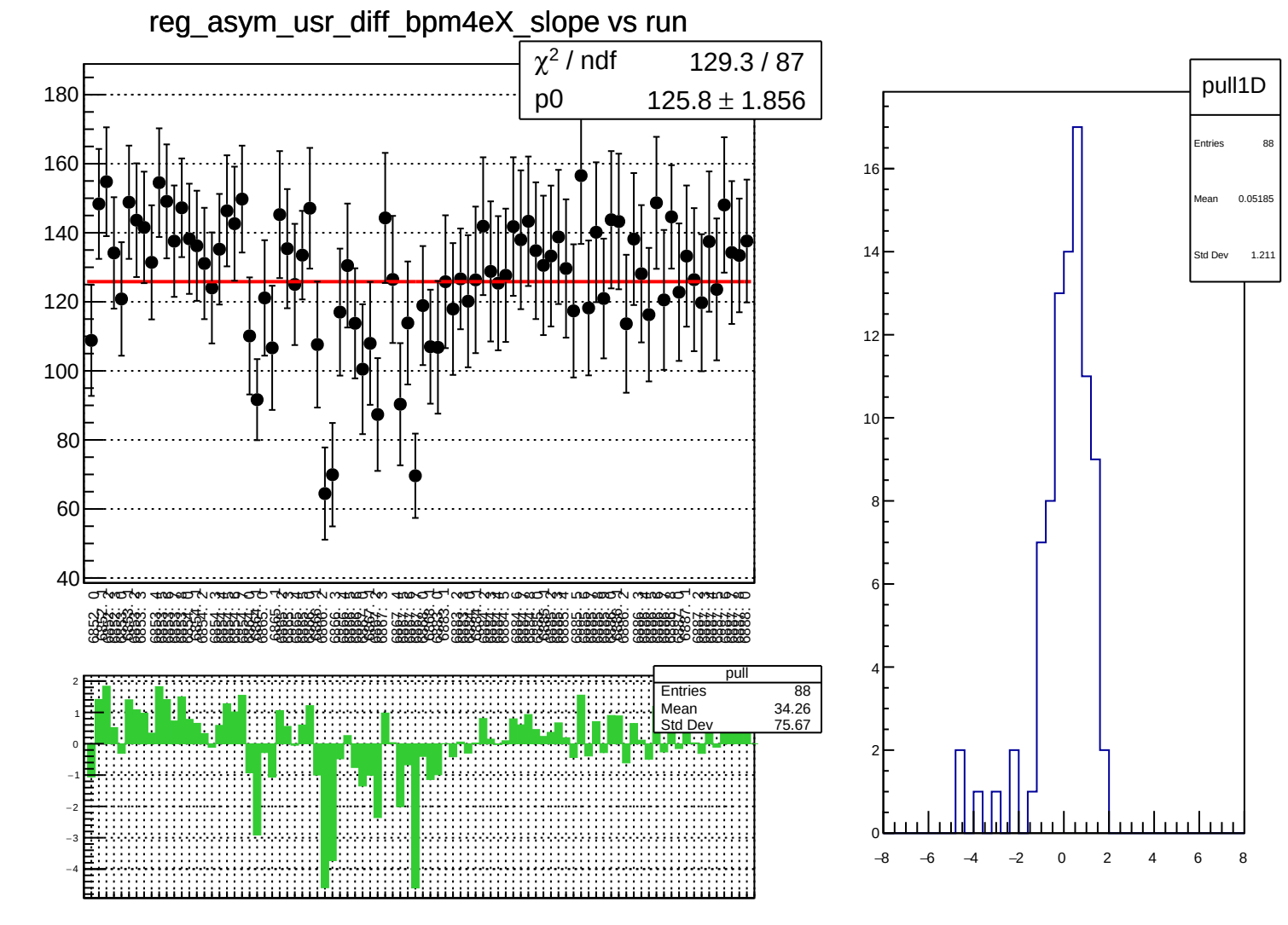

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 129 / 87
p0 −38.62 ± 0.0733
−36
−37
−38
−39
−40
−41
pull
Entries 88
Mean −646.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.02894
Std Dev 1.21
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

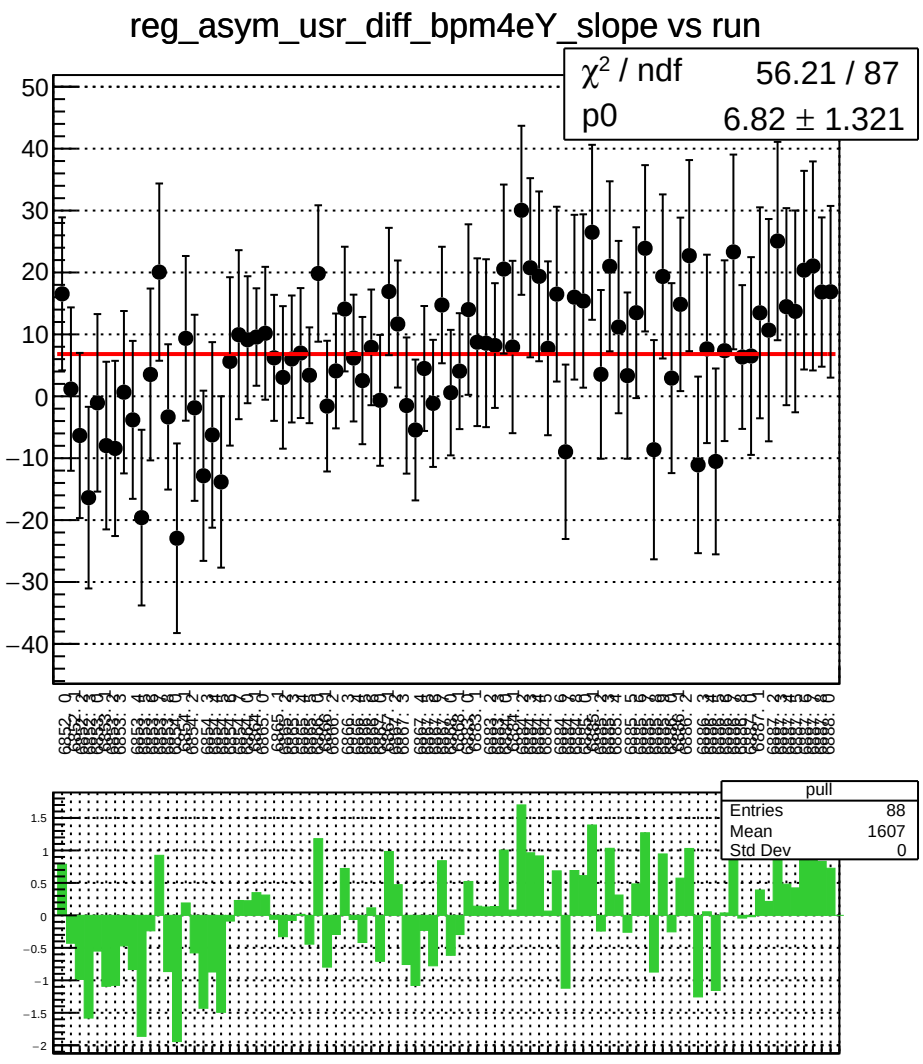

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 122.7 / 87
p0 −69.42 ± 1.949
pull
Entries 88
Mean 2.542
Std Dev 70.62

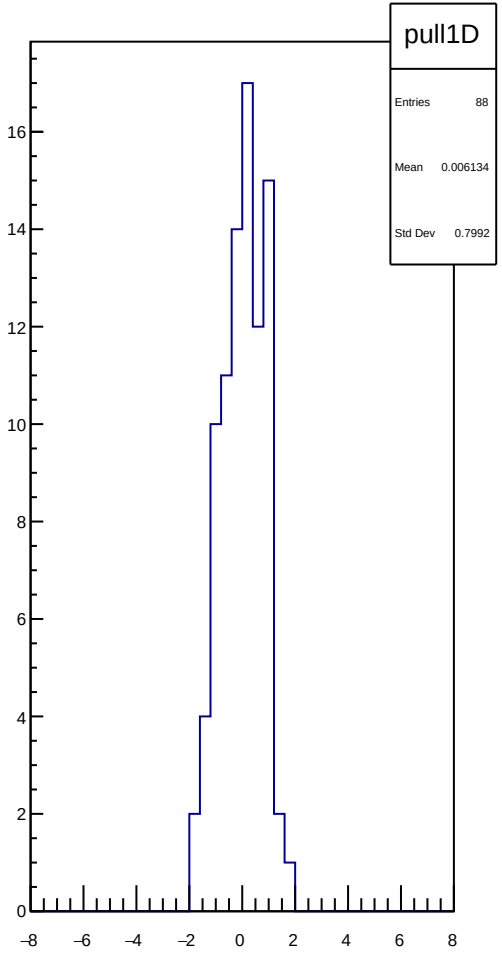

pull1D
Entries 88
Mean −0.04314
Std Dev 1.18

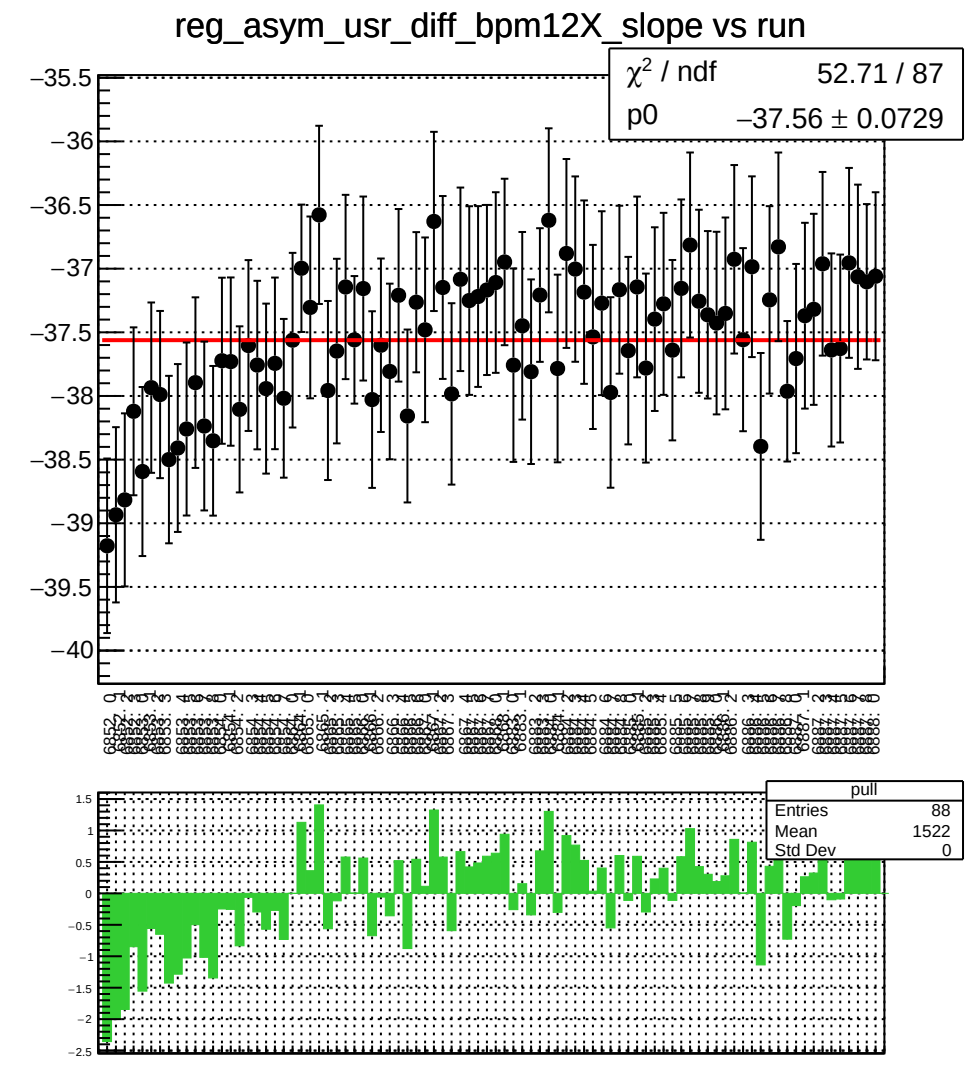

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 53.68 / 87
p0 5.993 ± 1.018
pull
Entries 88
Mean −2977
Std Dev 0

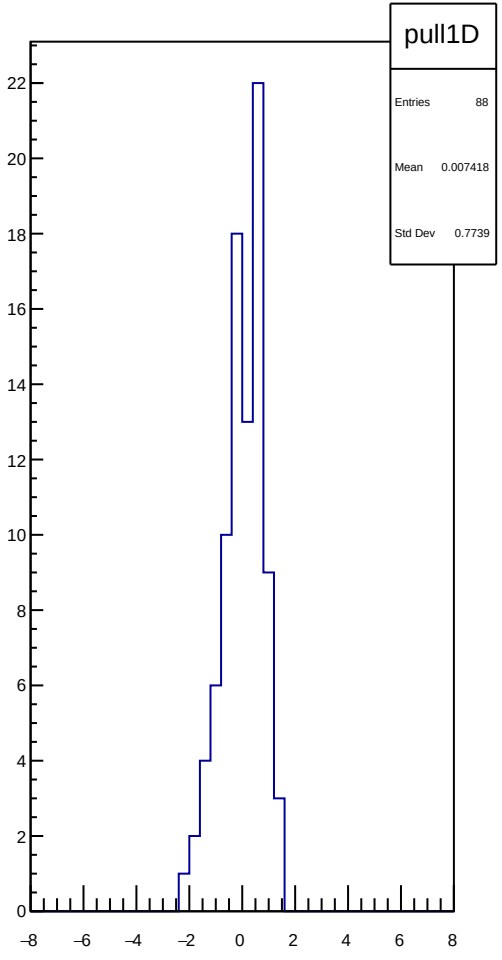

pull1D
Entries 88
Mean 0.002985
Std Dev 0.781

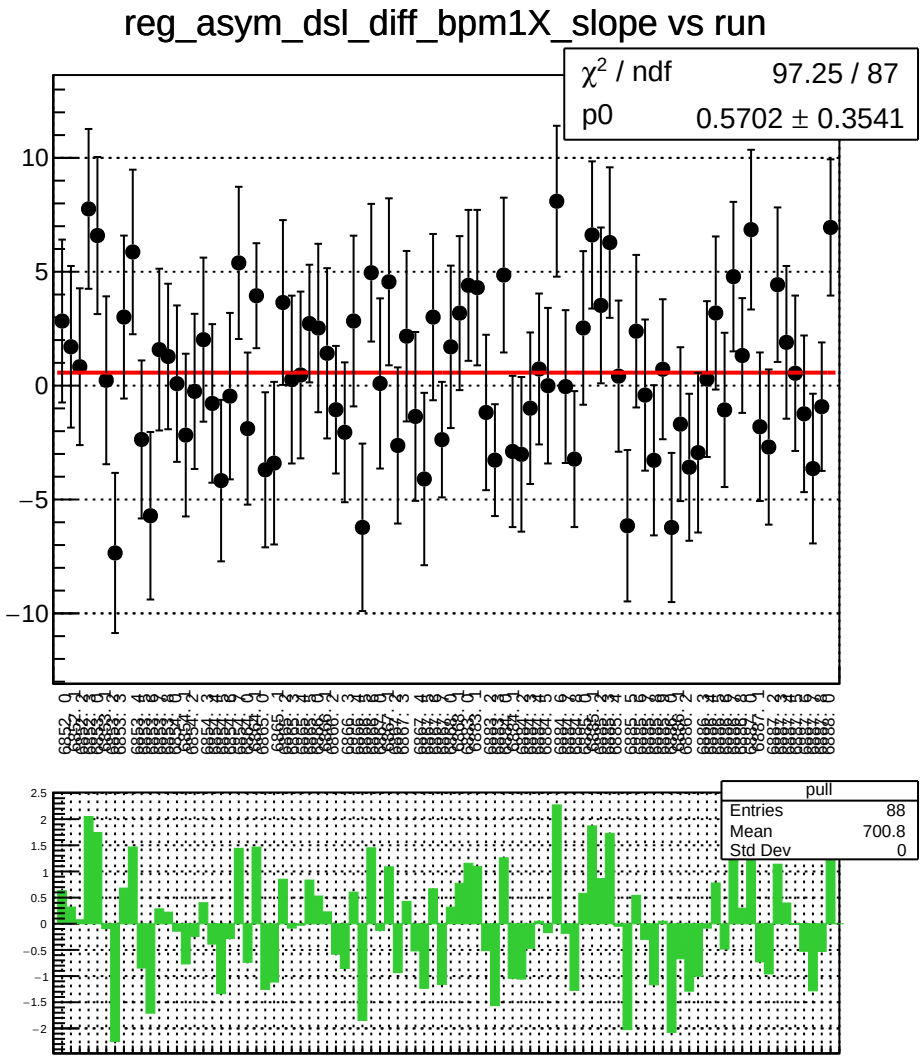

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 129.3 / 87
p0 125.8 ± 1.856
pull
Entries 88
Mean 34.26
Std Dev 75.67
pull1D
Entries 88
Mean 0.05185
Std Dev 1.211

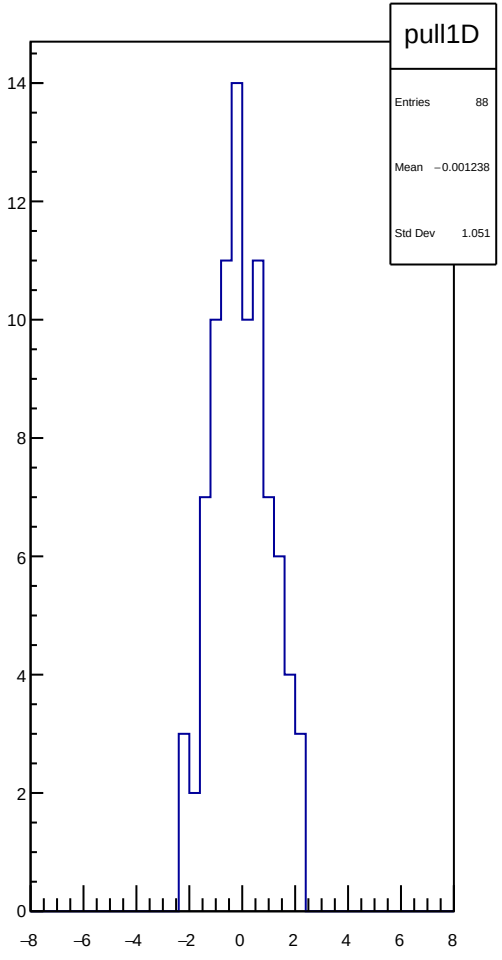

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 56.21 / 87
p0 6.82 ± 1.321
pull
Entries 88
Mean 1607
Std Dev 0

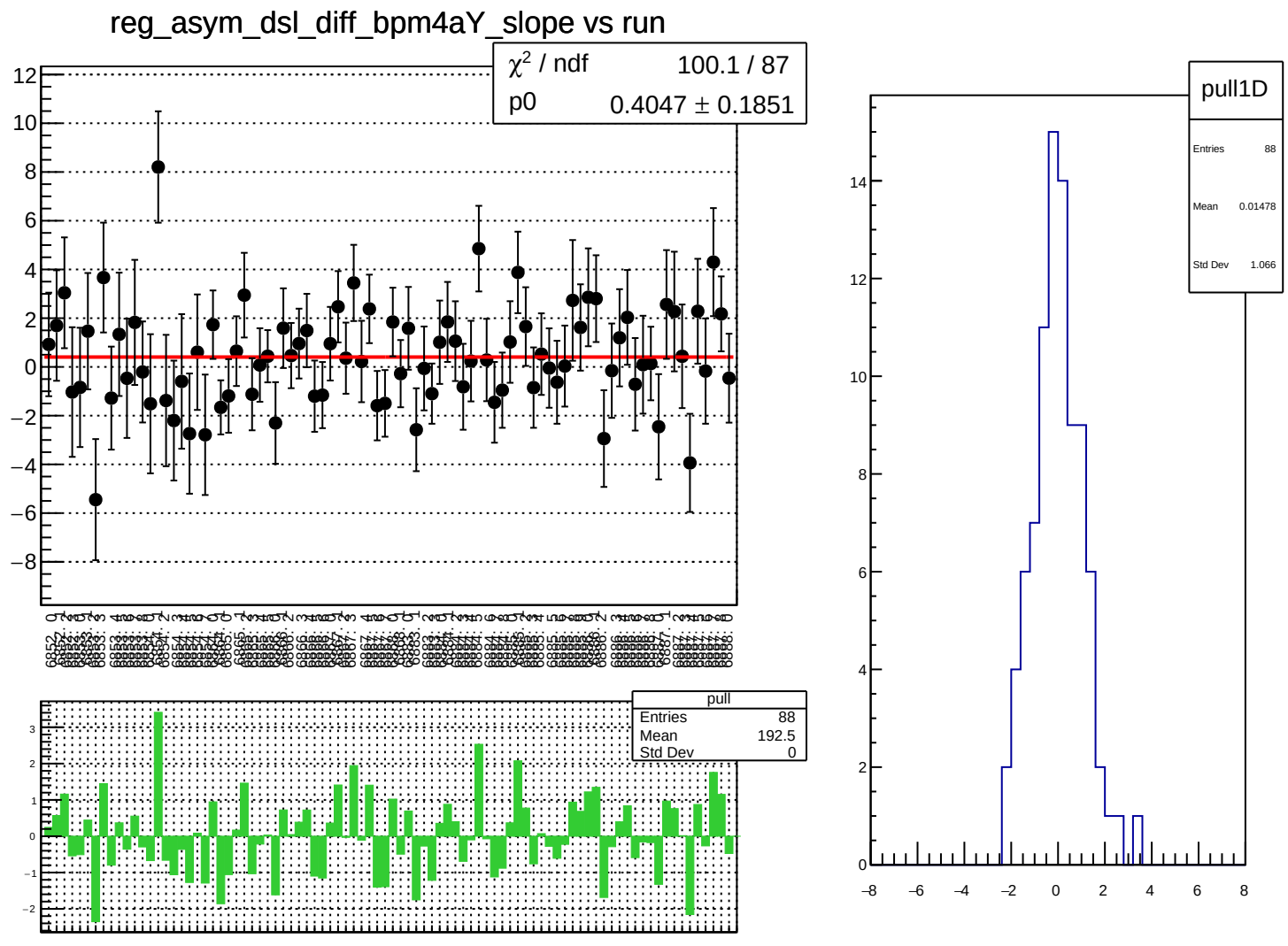

pull1D
Entries 88
Mean 0.006134
Std Dev 0.7992

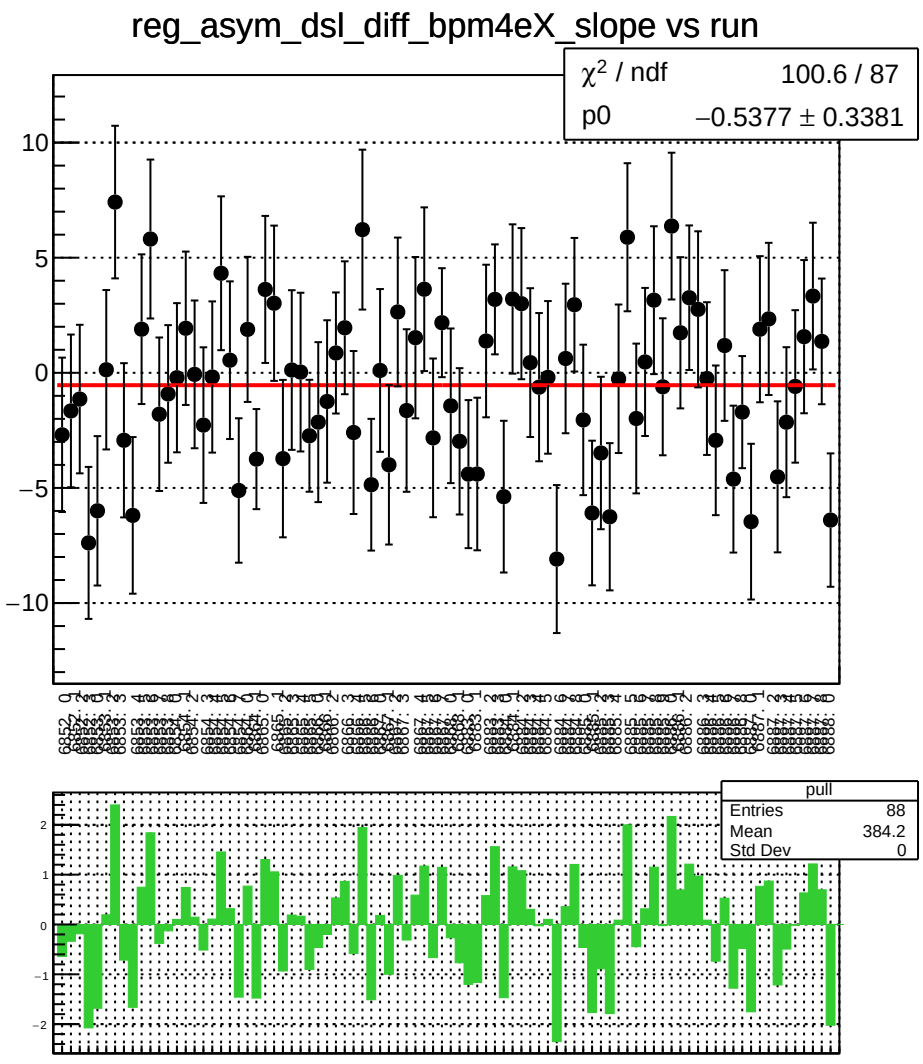

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 52.71 / 87
p0 −37.56 ± 0.0729
pull
Entries 88
Mean 1522
Std Dev 0

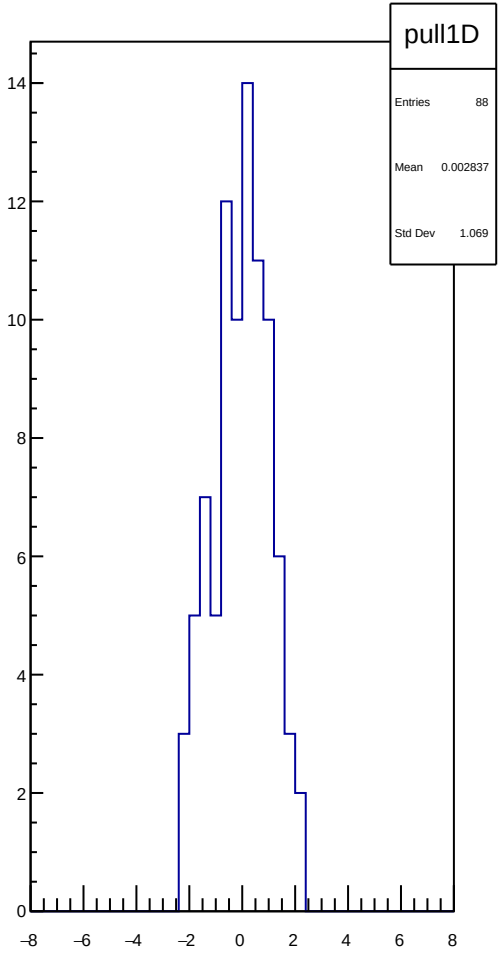

pull1D
Entries 88
Mean 0.007418
Std Dev 0.7739

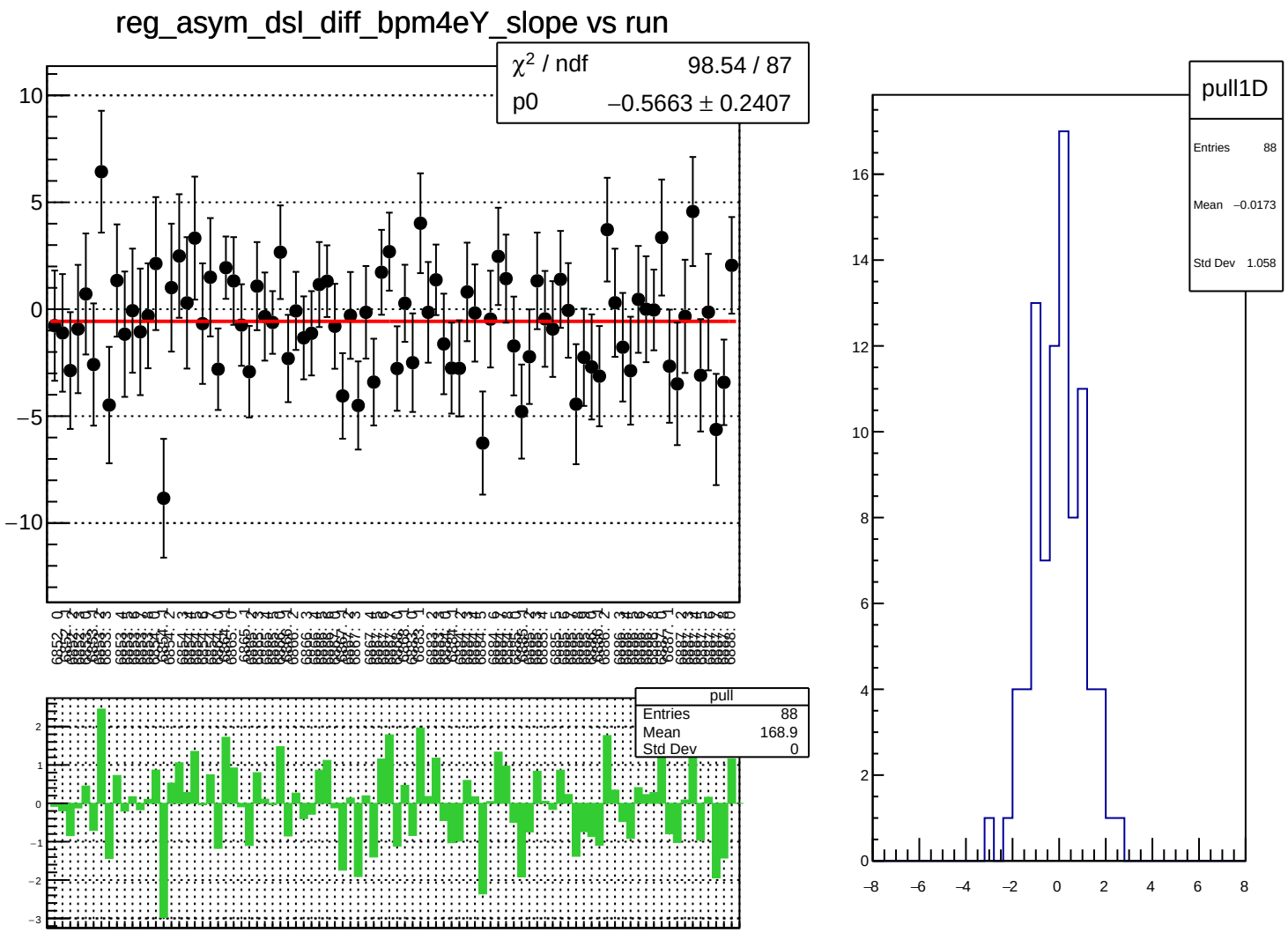

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 97.25 / 87
p0 0.5702 ± 0.3541
pull
Entries 88
Mean 700.8
Std Dev 0

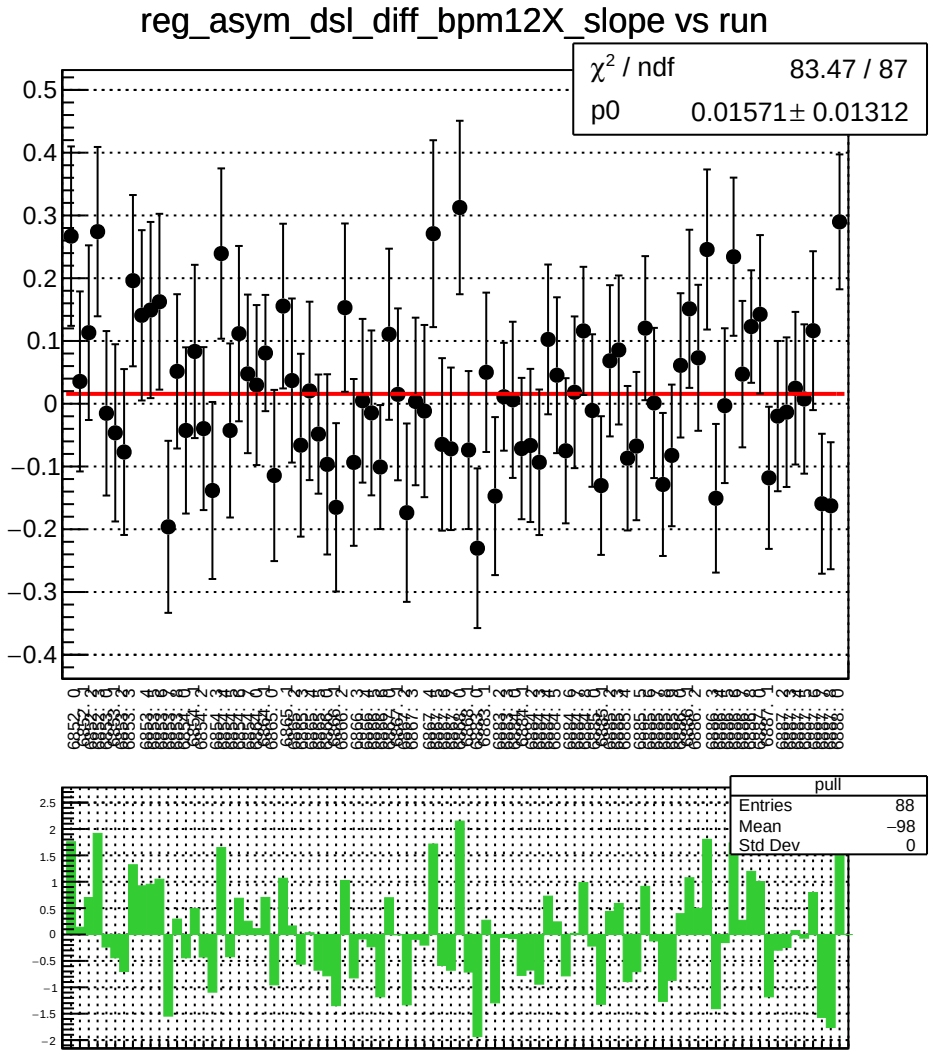

pull1D
Entries 88
Mean −0.001238
Std Dev 1.051

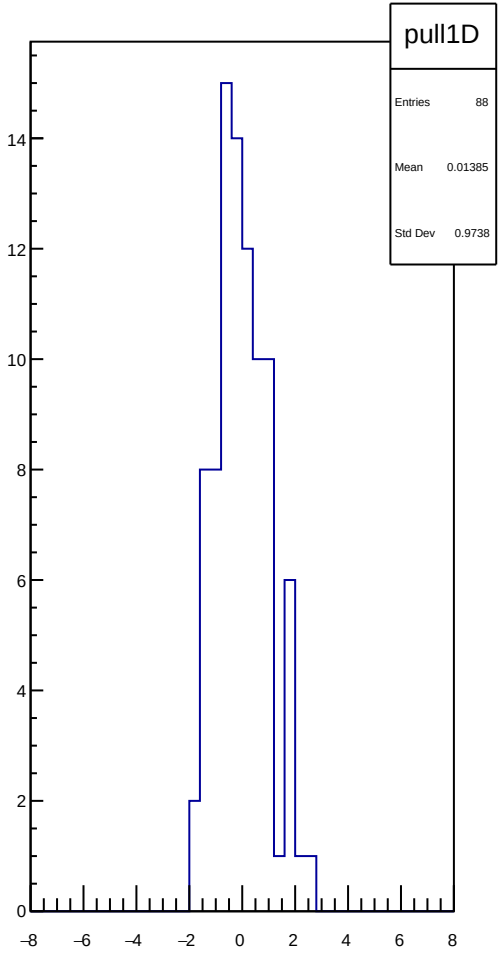

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 100.1 / 87
p0 0.4047 ± 0.1851
pull
Entries 88
Mean 192.5
Std Dev 0
pull1D
Entries 88
Mean 0.01478
Std Dev 1.066

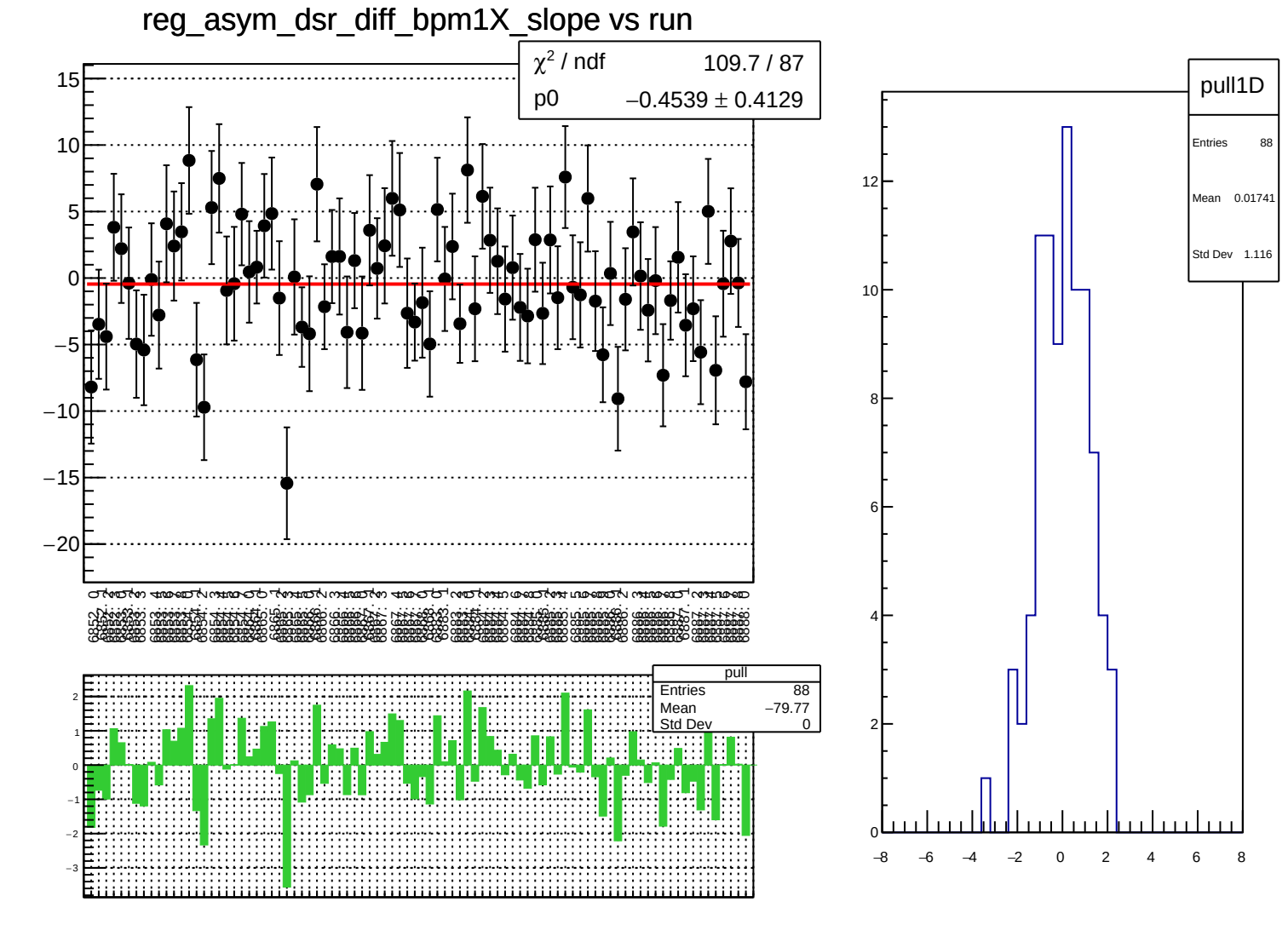

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 100.6 / 87
p0 −0.5377 ± 0.3381
pull
Entries 88
Mean 384.2
Std Dev 0

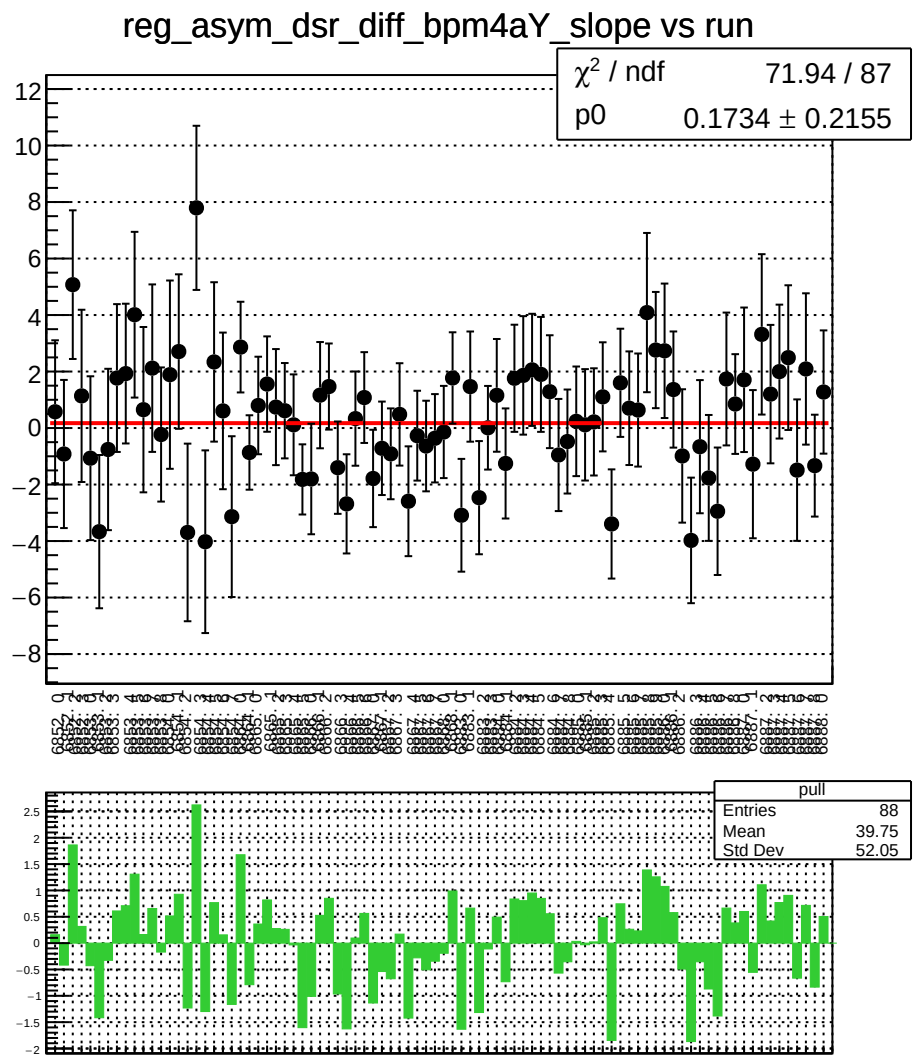

pull1D
Entries 88
Mean 0.002837
Std Dev 1.069

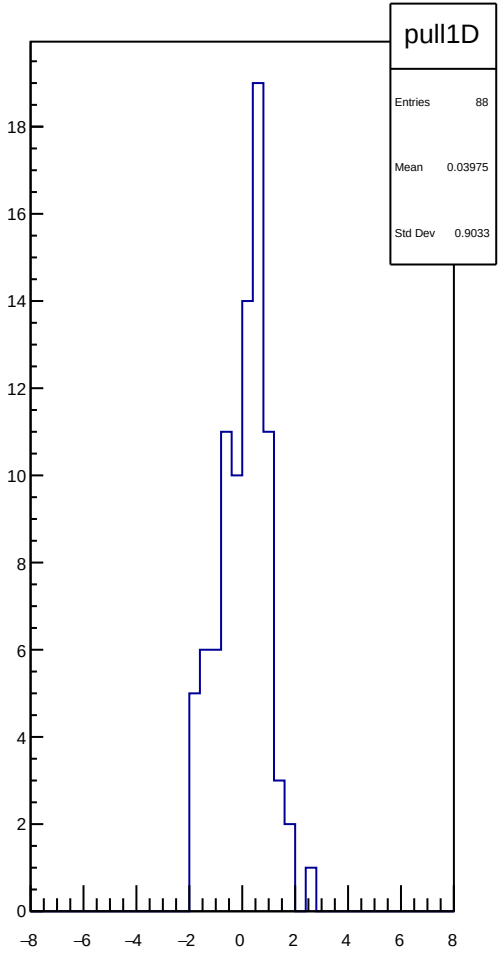

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 98.54 / 87
p0 −0.5663 ± 0.2407
pull
Entries 88
Mean 168.9
Std Dev 0
pull1D
Entries 88
Mean −0.0173
Std Dev 1.058

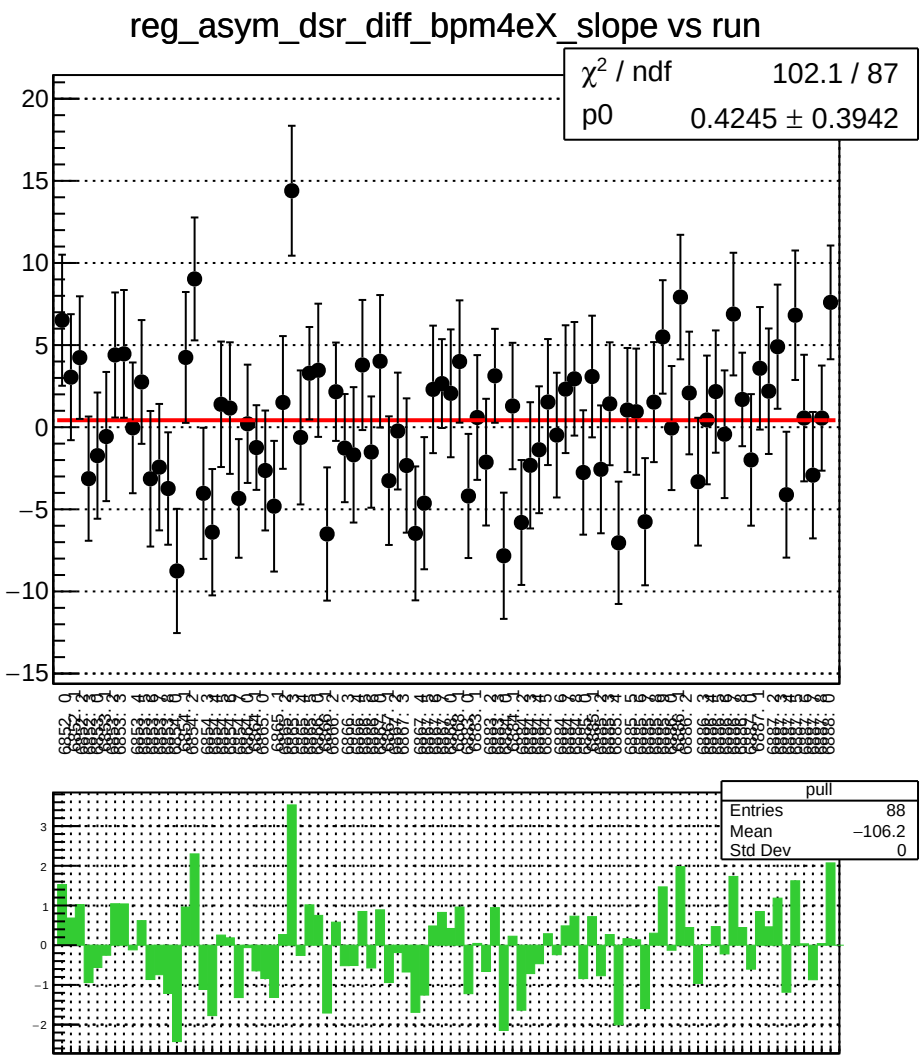

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 83.47 / 87
p0 0.01571 ± 0.01312
pull
Entries 88
Mean −98
Std Dev 0

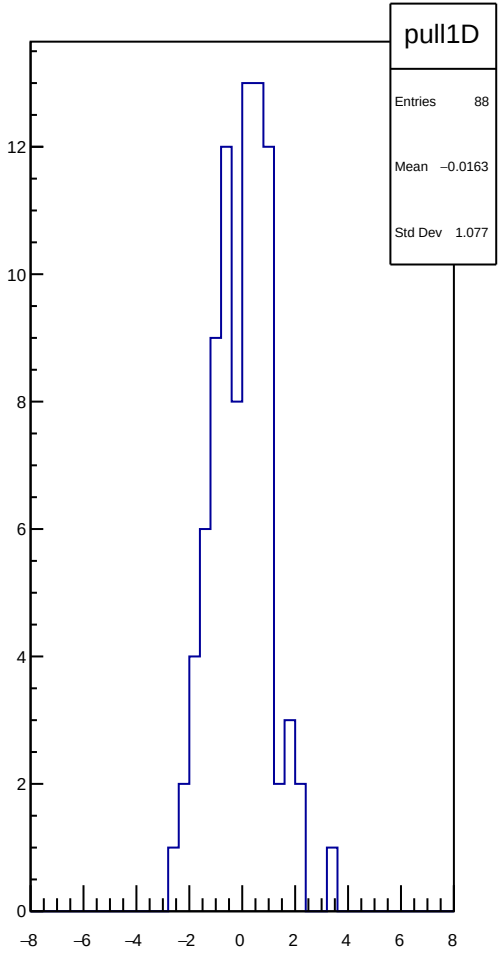

pull1D
Entries 88
Mean 0.01385
Std Dev 0.9738

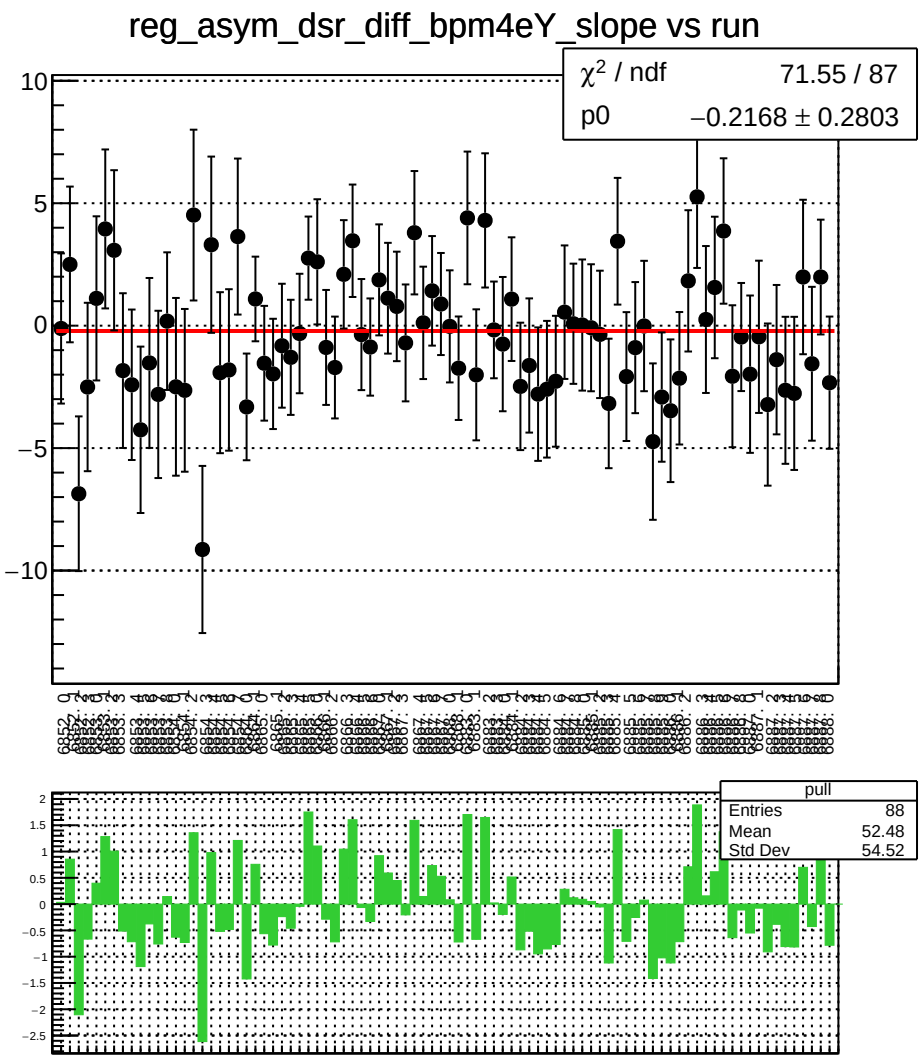

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 109.7 / 87
p0 −0.4539 ± 0.4129
pull
Entries 88
Mean −79.77
Std Dev 0
pull1D
Entries 88
Mean 0.01741
Std Dev 1.116

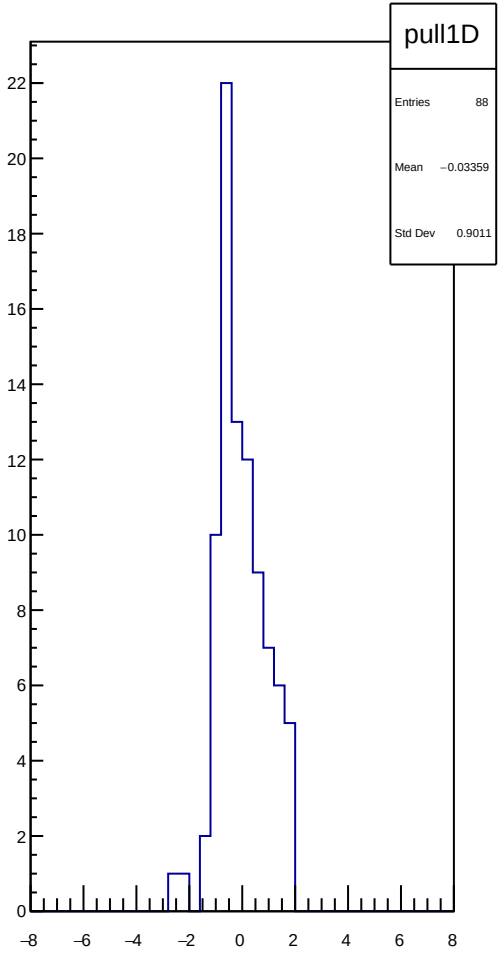

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 71.94 / 87
p0 0.1734 ± 0.2155
pull
Entries 88
Mean 39.75
Std Dev 52.05

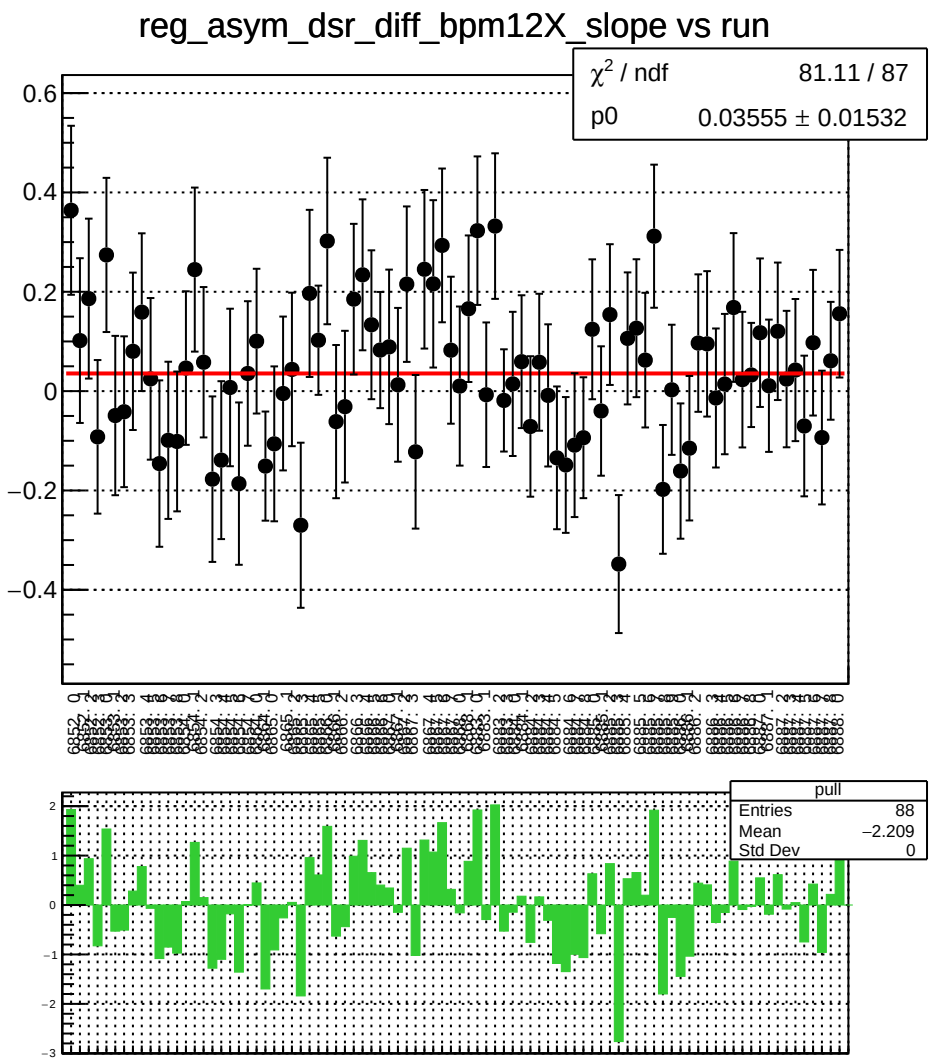

pull1D
Entries 88
Mean 0.03975
Std Dev 0.9033

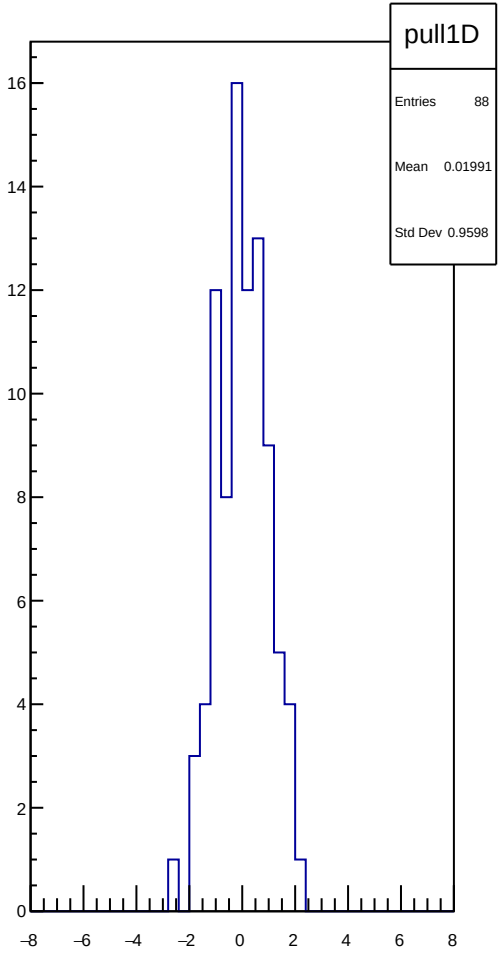

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 102.1 / 87
p0 0.4245 ± 0.3942
pull
Entries 88
Mean −106.2
Std Dev 0

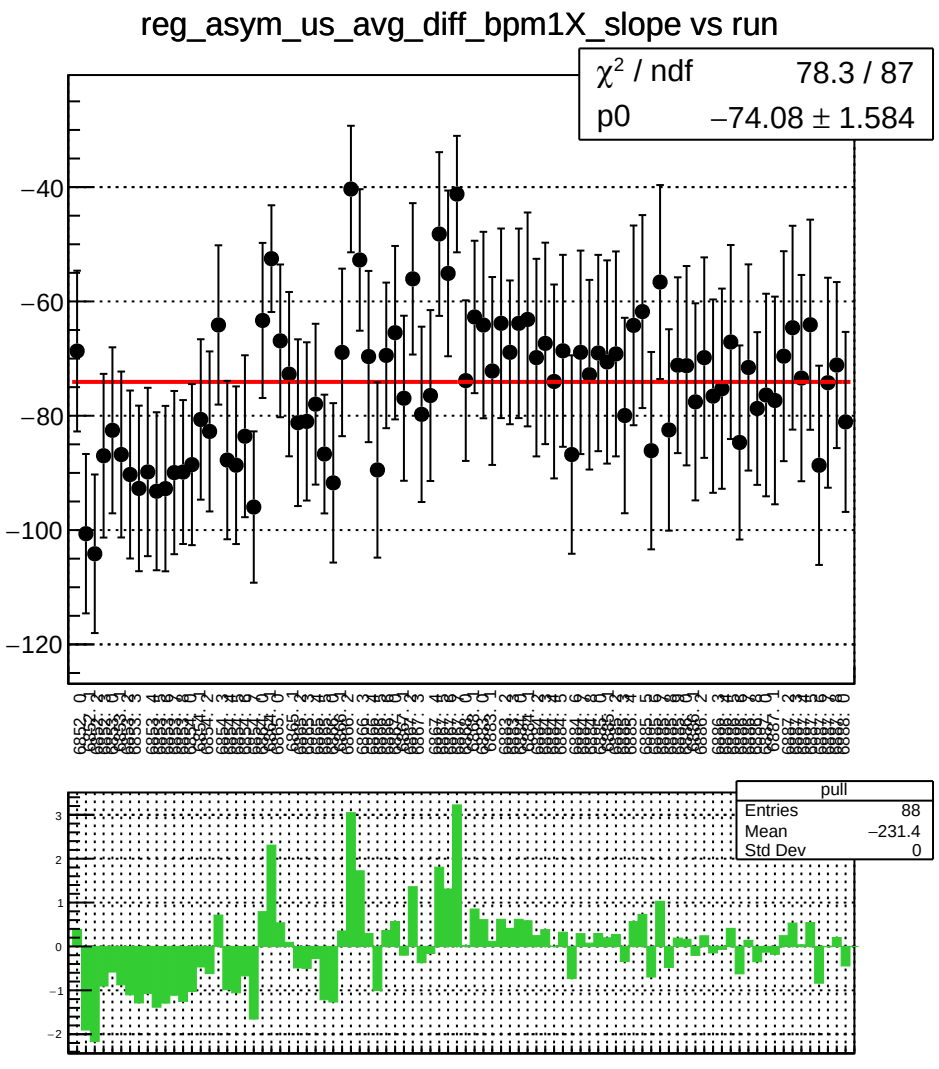

pull1D
Entries 88
Mean −0.0163
Std Dev 1.077

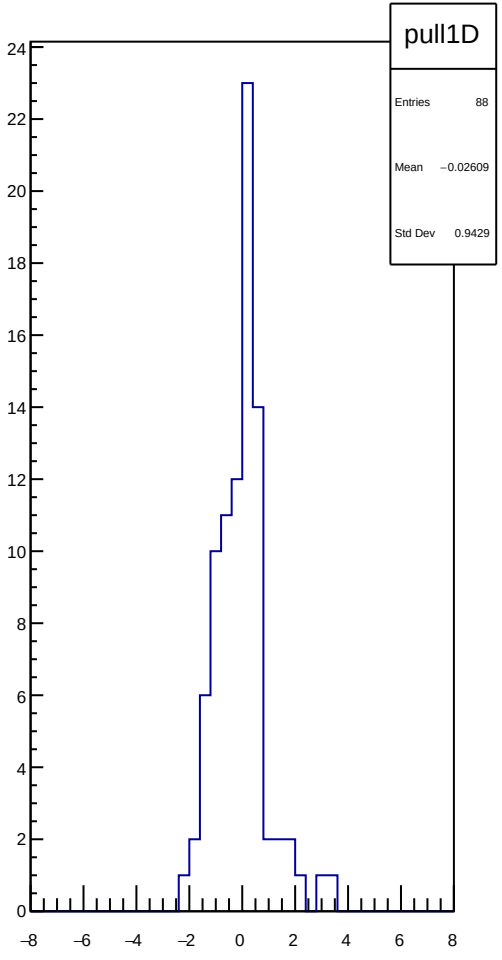

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 71.55 / 87
p0 −0.2168 ± 0.2803
pull
Entries 88
Mean 52.48
Std Dev 54.52

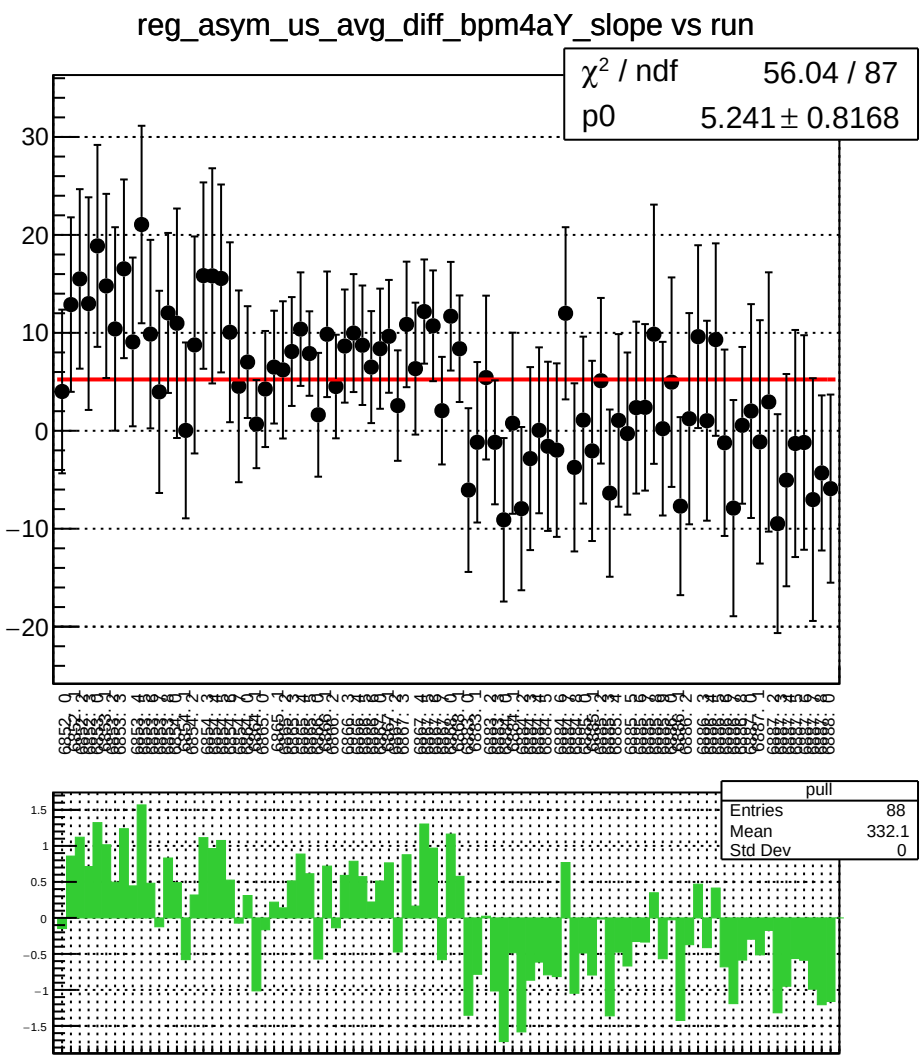

pull1D
Entries 88
Mean −0.03359
Std Dev 0.9011

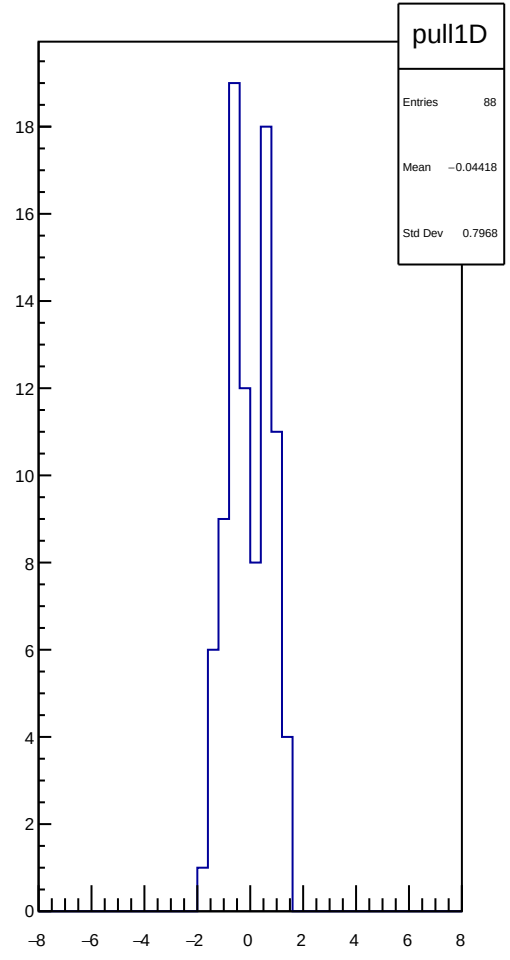

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 81.11 / 87
p0 0.03555 ± 0.01532
pull
Entries 88
Mean −2.209
Std Dev 0

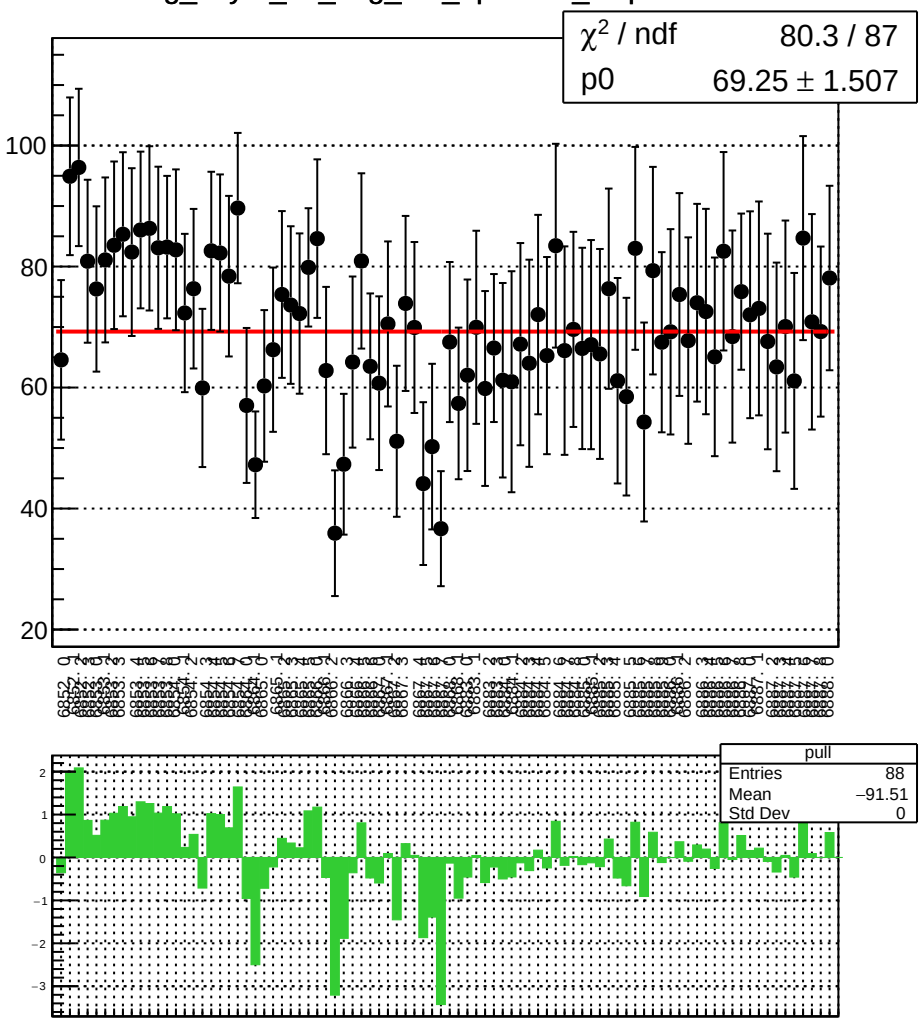

pull1D
Entries 88
Mean 0.01991
Std Dev 0.9598

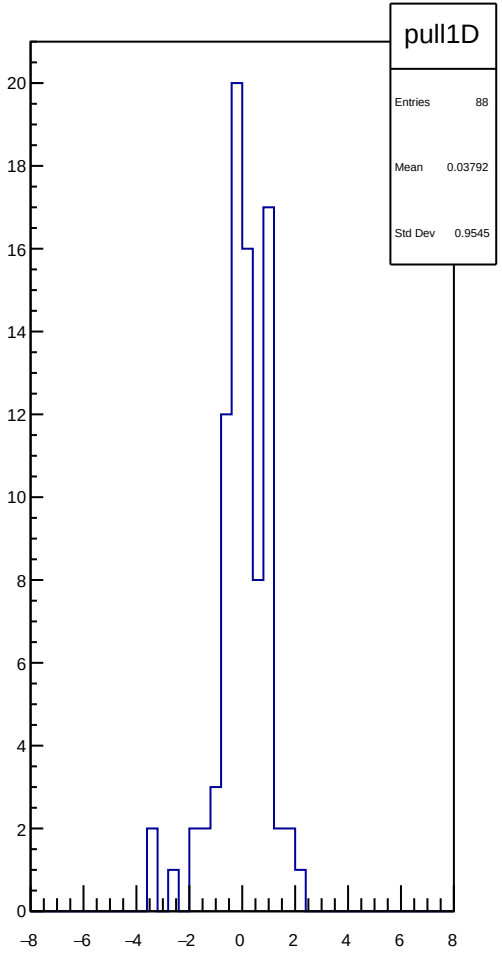

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 78.3 / 87
p0 −74.08 ± 1.584
−40
−60
−80
−100
−120
pull
Entries 88
Mean −231.4
Std Dev 0
3
2
1
0
−1
−2

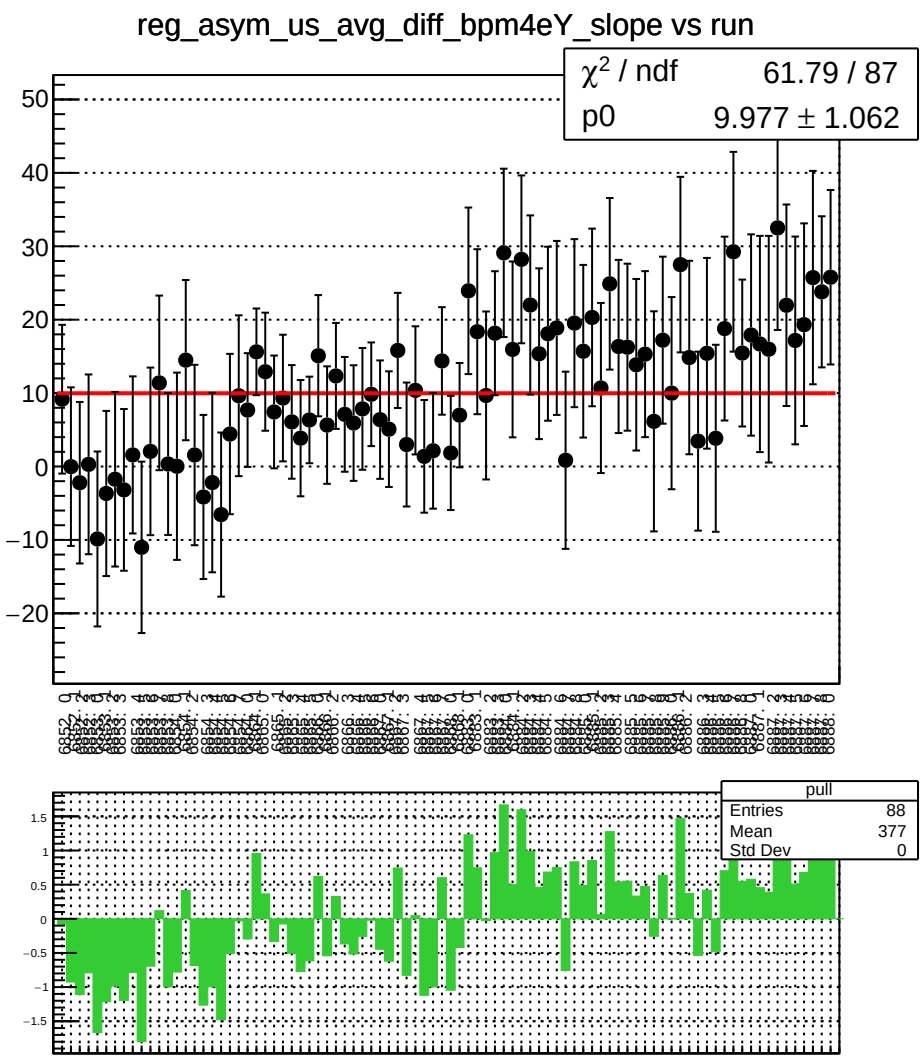

pull1D
Entries 88
Mean −0.02609
Std Dev 0.9429
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

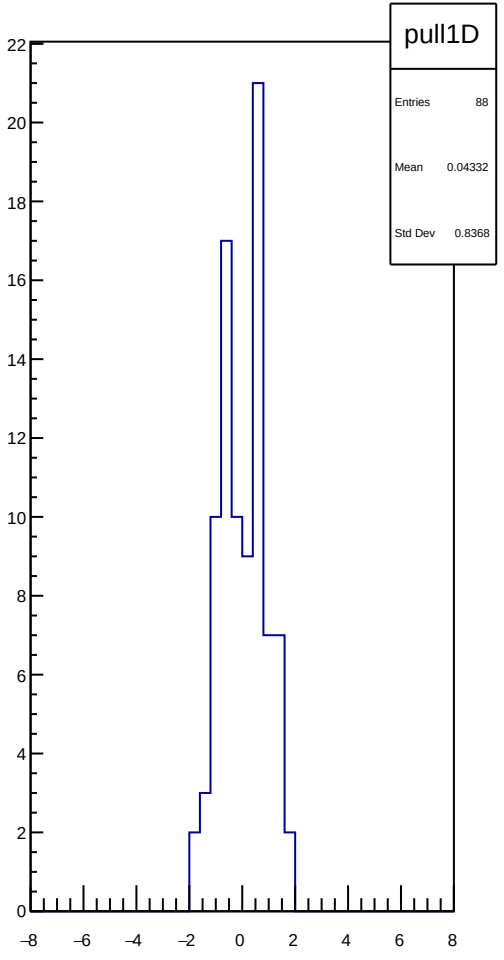

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.04 / 87
p0 5.241 ± 0.8168
pull
Entries 88
Mean 332.1
Std Dev 0

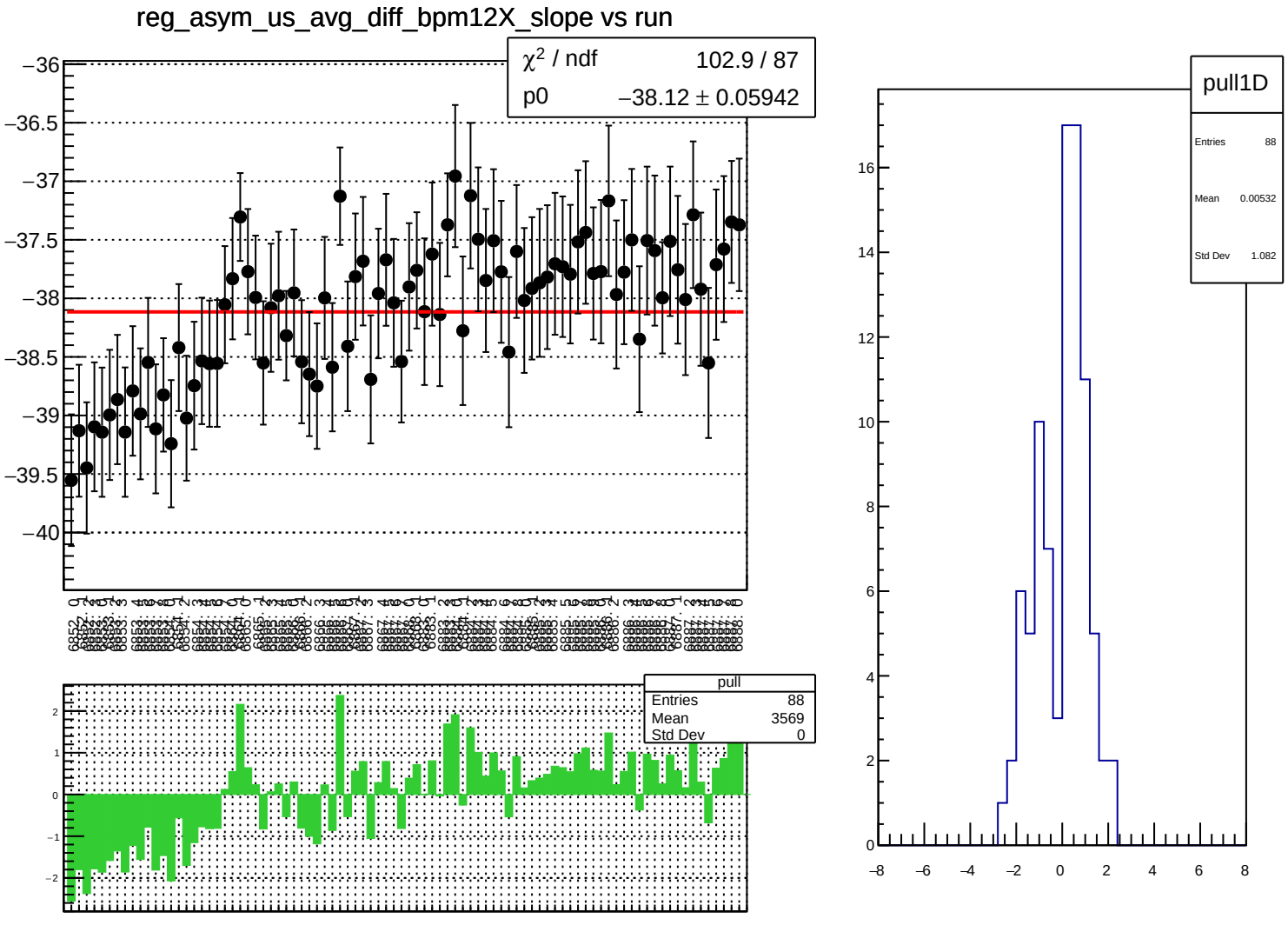

pull1D
Entries 88
Mean −0.04418
Std Dev 0.7968

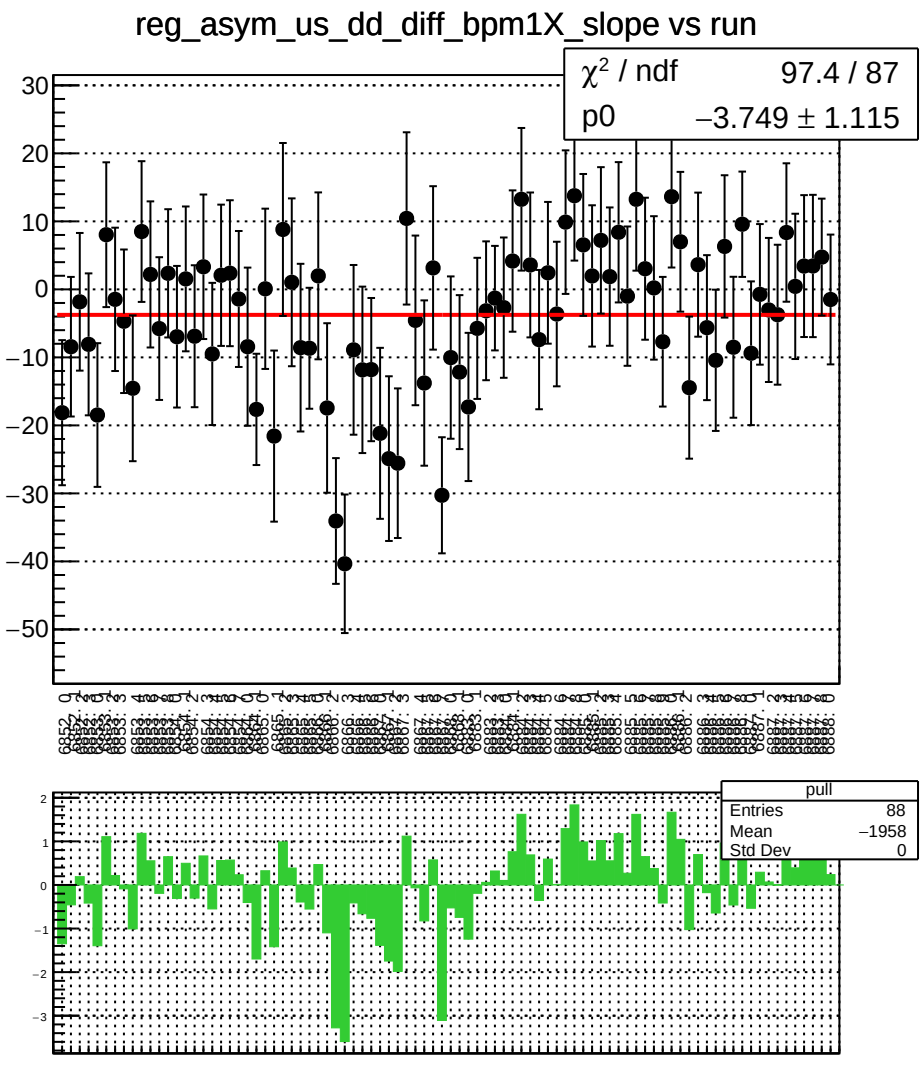

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.3 / 87
p0 69.25 ± 1.507
pull
Entries 88
Mean −91.51
Std Dev 0

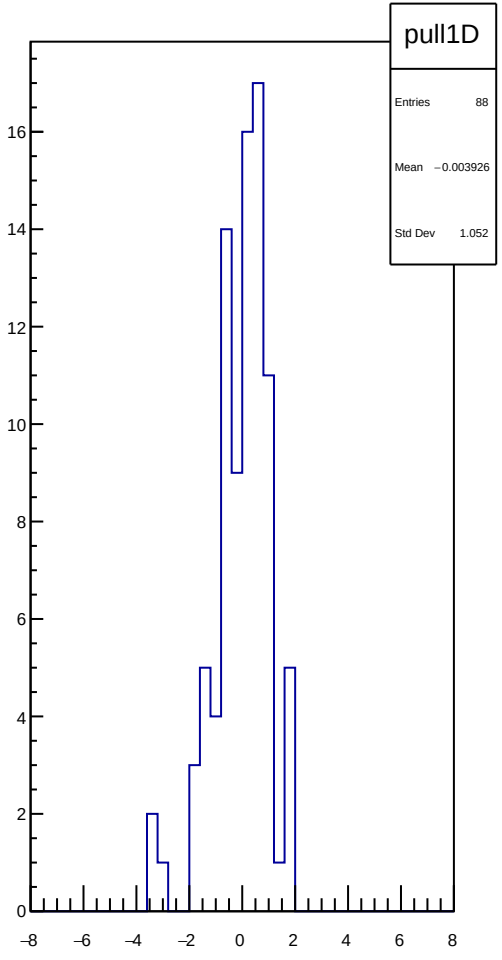

pull1D
Entries 88
Mean 0.03792
Std Dev 0.9545

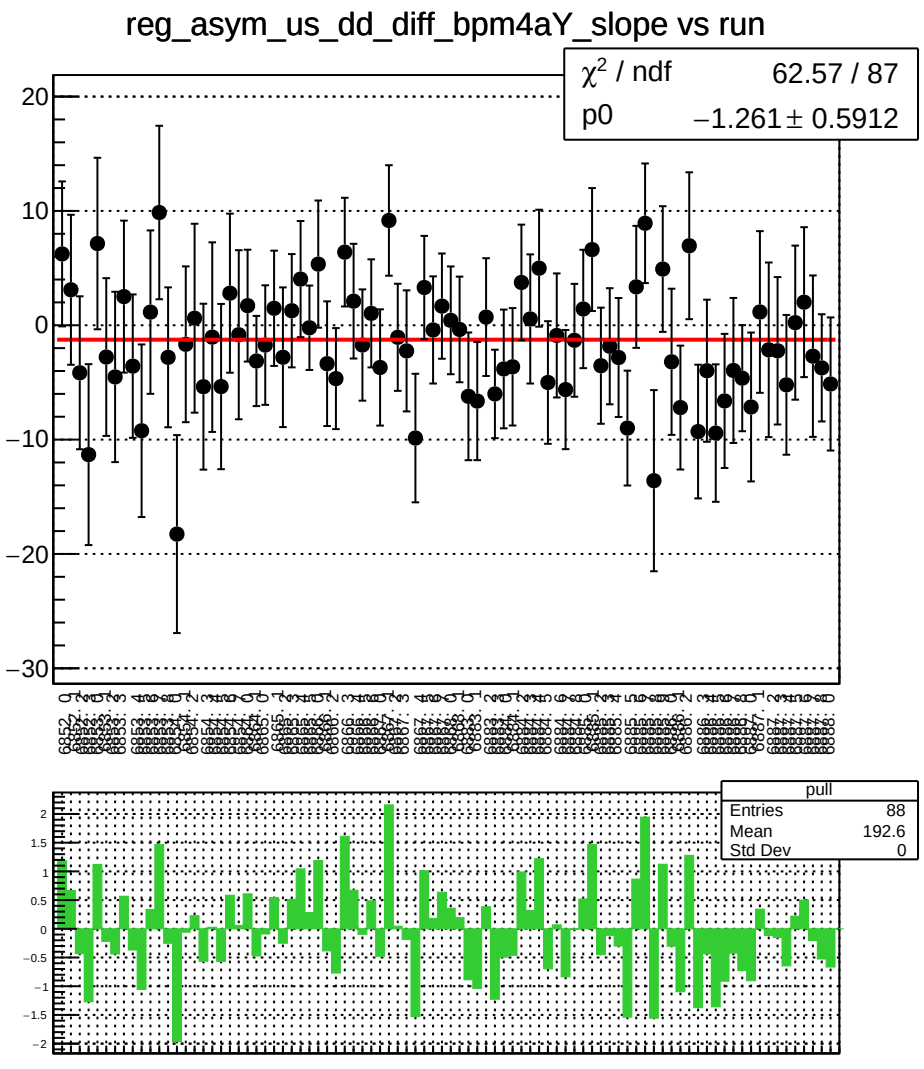

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 61.79 / 87
p0 9.977 ± 1.062
pull
Entries 88
Mean 377
Std Dev 0

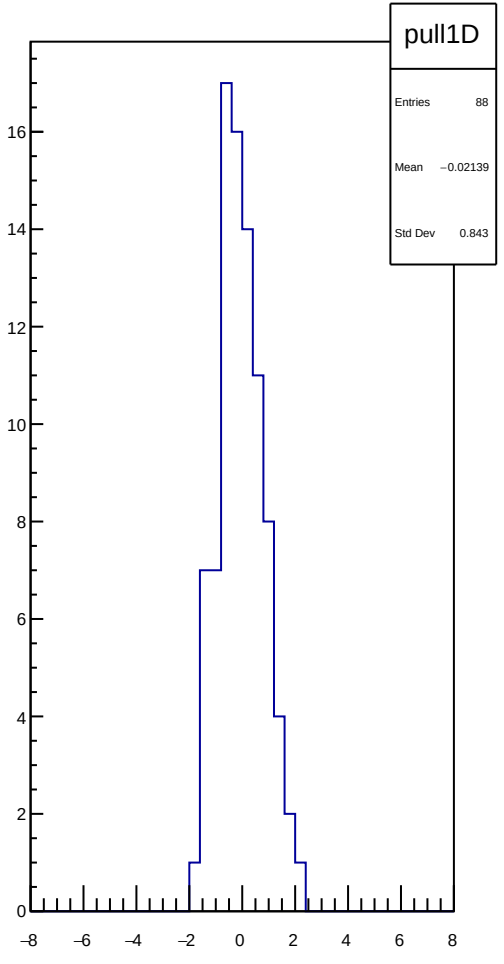

pull1D
Entries 88
Mean 0.04332
Std Dev 0.8368

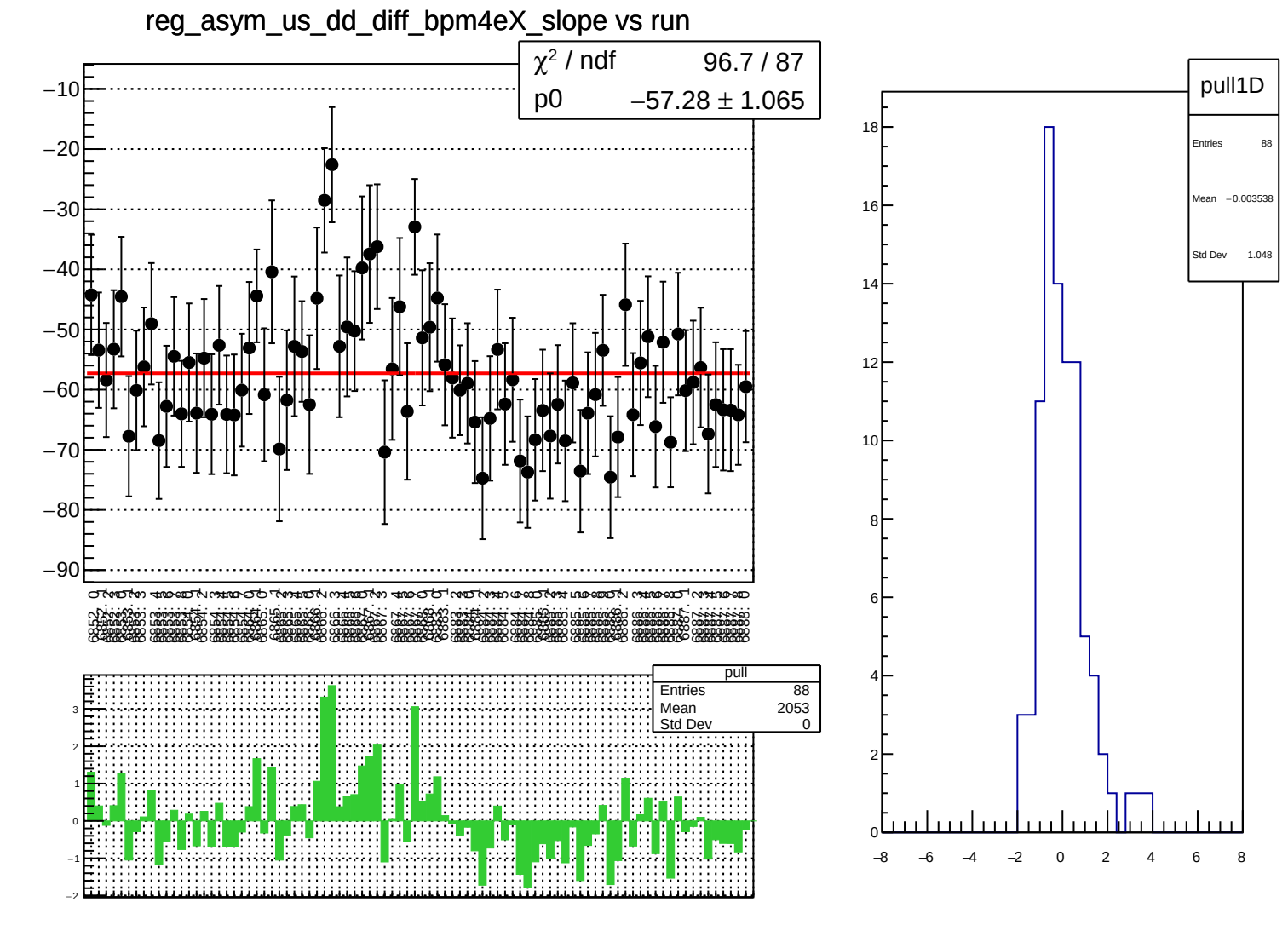

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 102.9 / 87
p0 −38.12 ± 0.05942
pull
Entries 88
Mean 3569
Std Dev 0
pull1D
Entries 88
Mean 0.00532
Std Dev 1.082

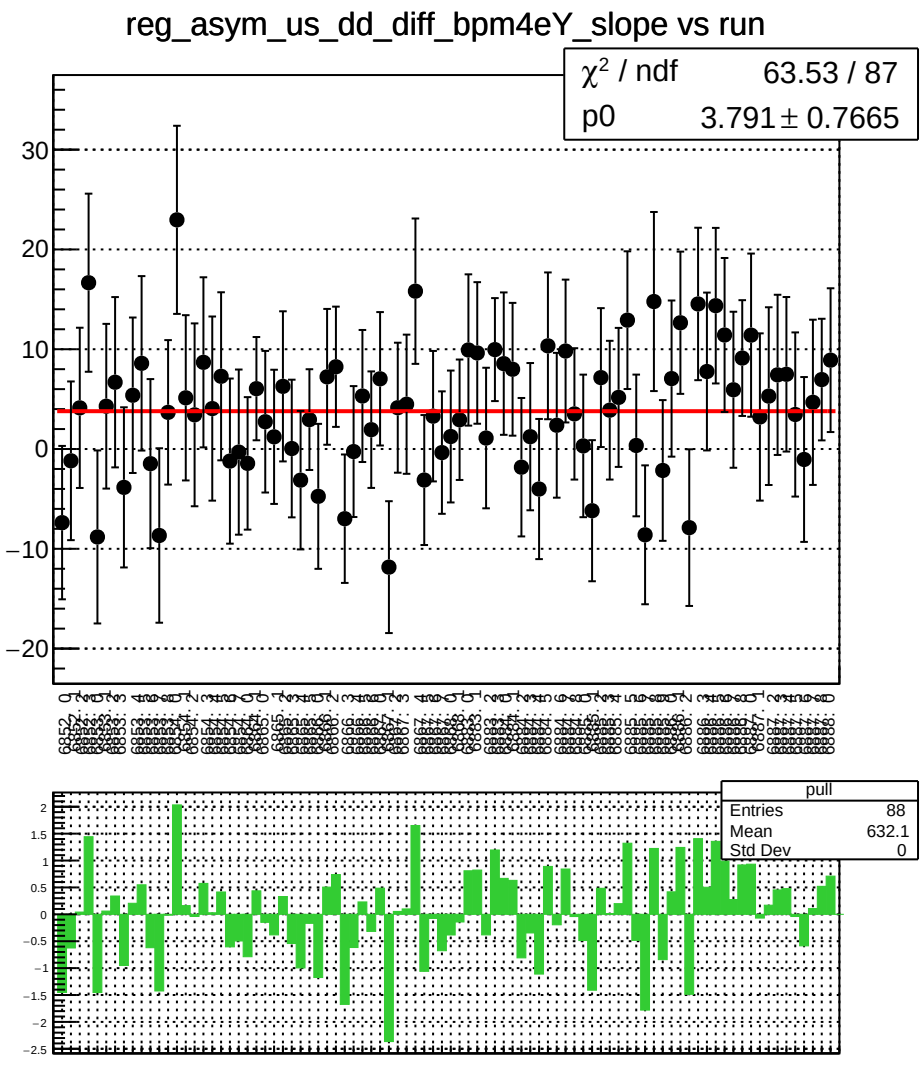

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 97.4 / 87
p0 −3.749 ± 1.115
pull
Entries 88
Mean −1958
Std Dev 0

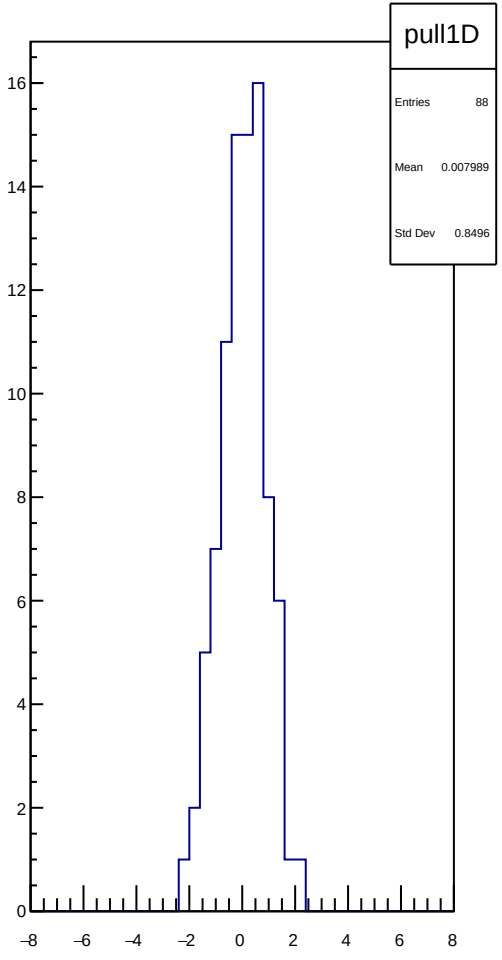

pull1D
Entries 88
Mean −0.003926
Std Dev 1.052

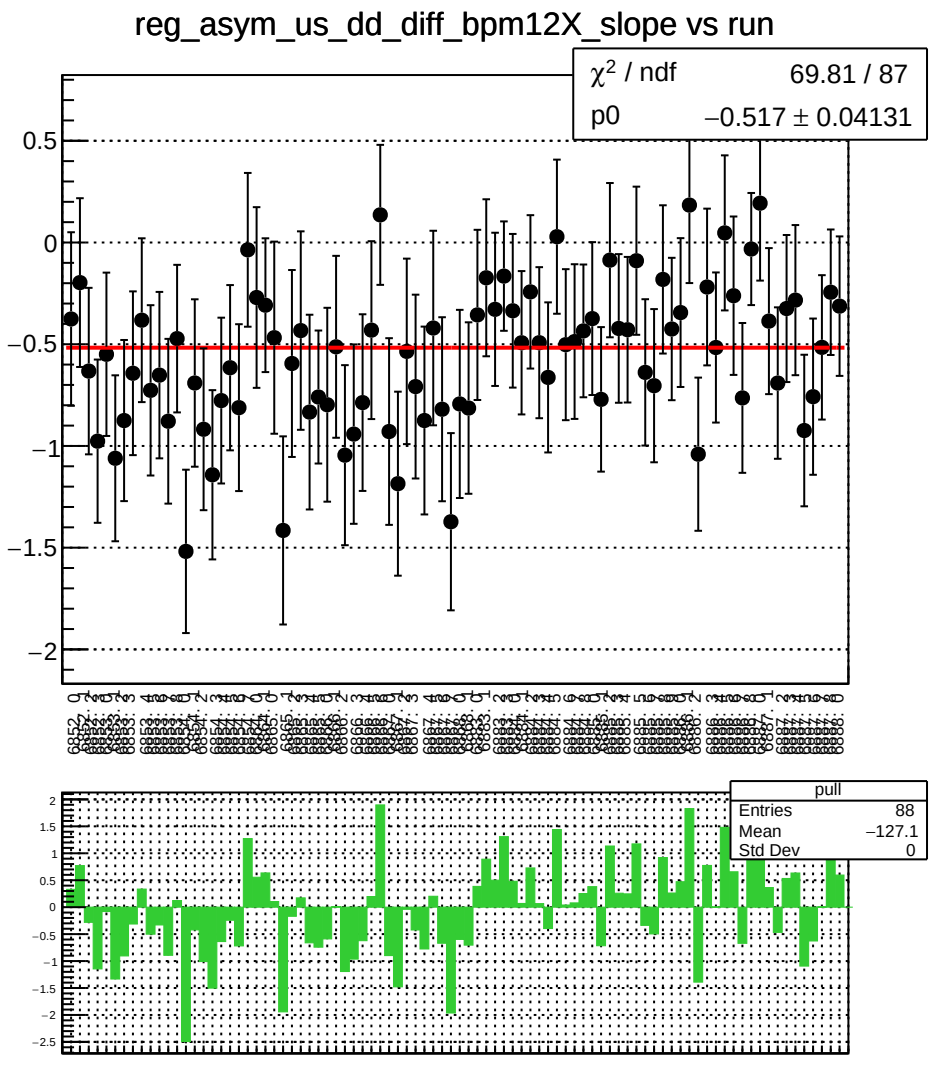

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.57 / 87
p0 −1.261 ± 0.5912
pull
Entries 88
Mean 192.6
Std Dev 0

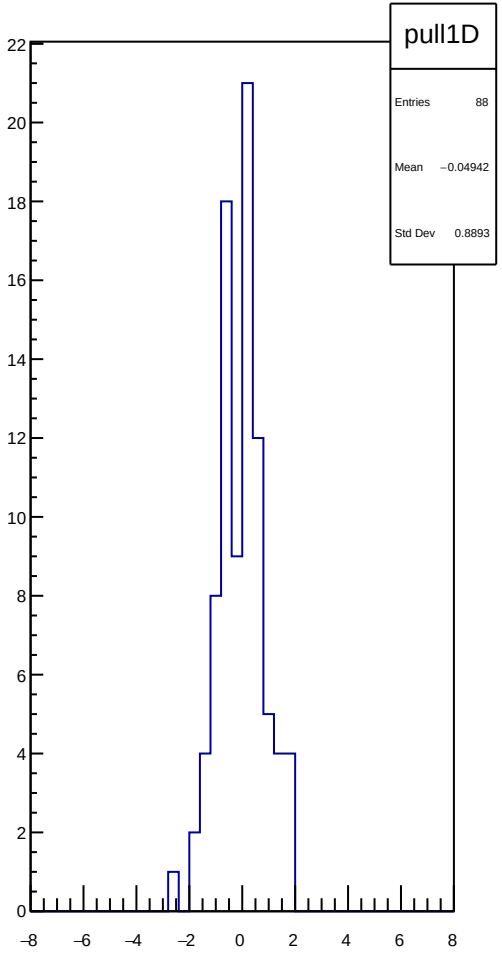

pull1D
Entries 88
Mean −0.02139
Std Dev 0.843

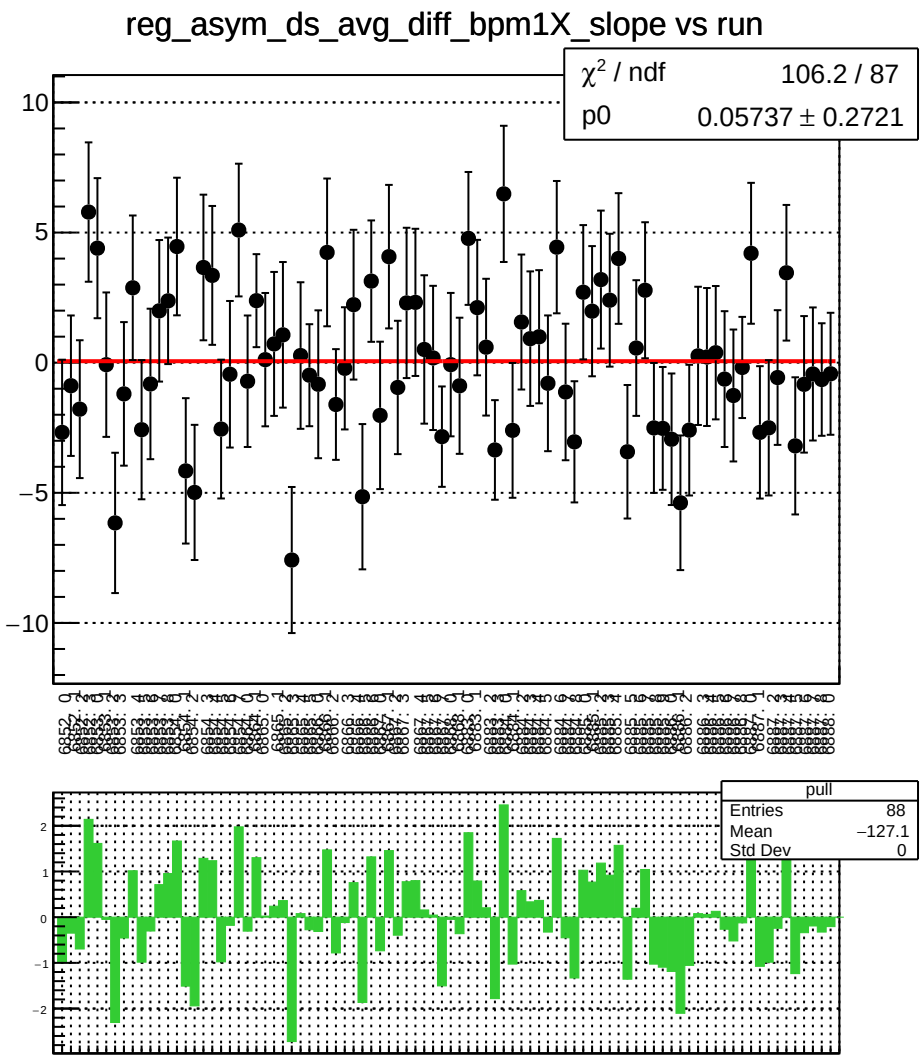

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 96.7 / 87
p0 −57.28 ± 1.065
pull
Entries 88
Mean 2053
Std Dev 0
pull1D
Entries 88
Mean −0.003538
Std Dev 1.048

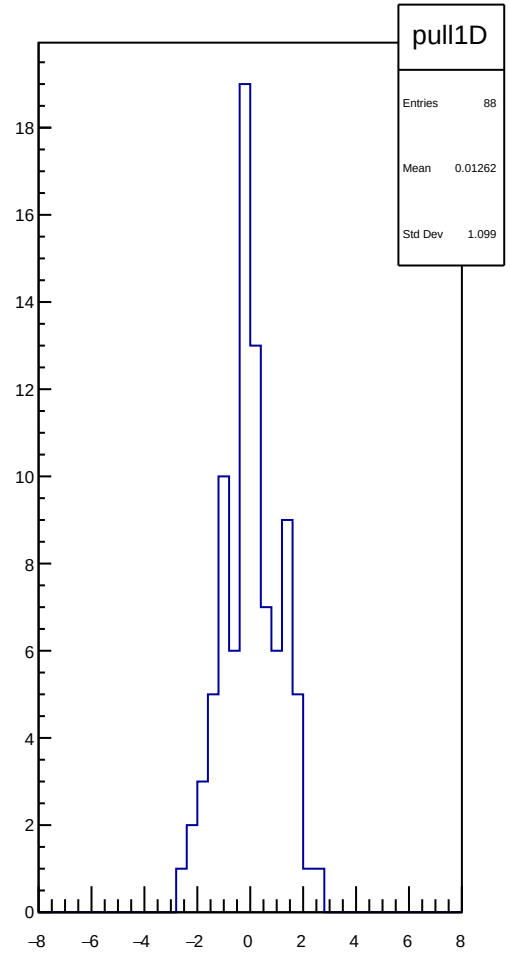

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.53 / 87
p0 3.791 ± 0.7665
pull
Entries 88
Mean 632.1
Std Dev 0

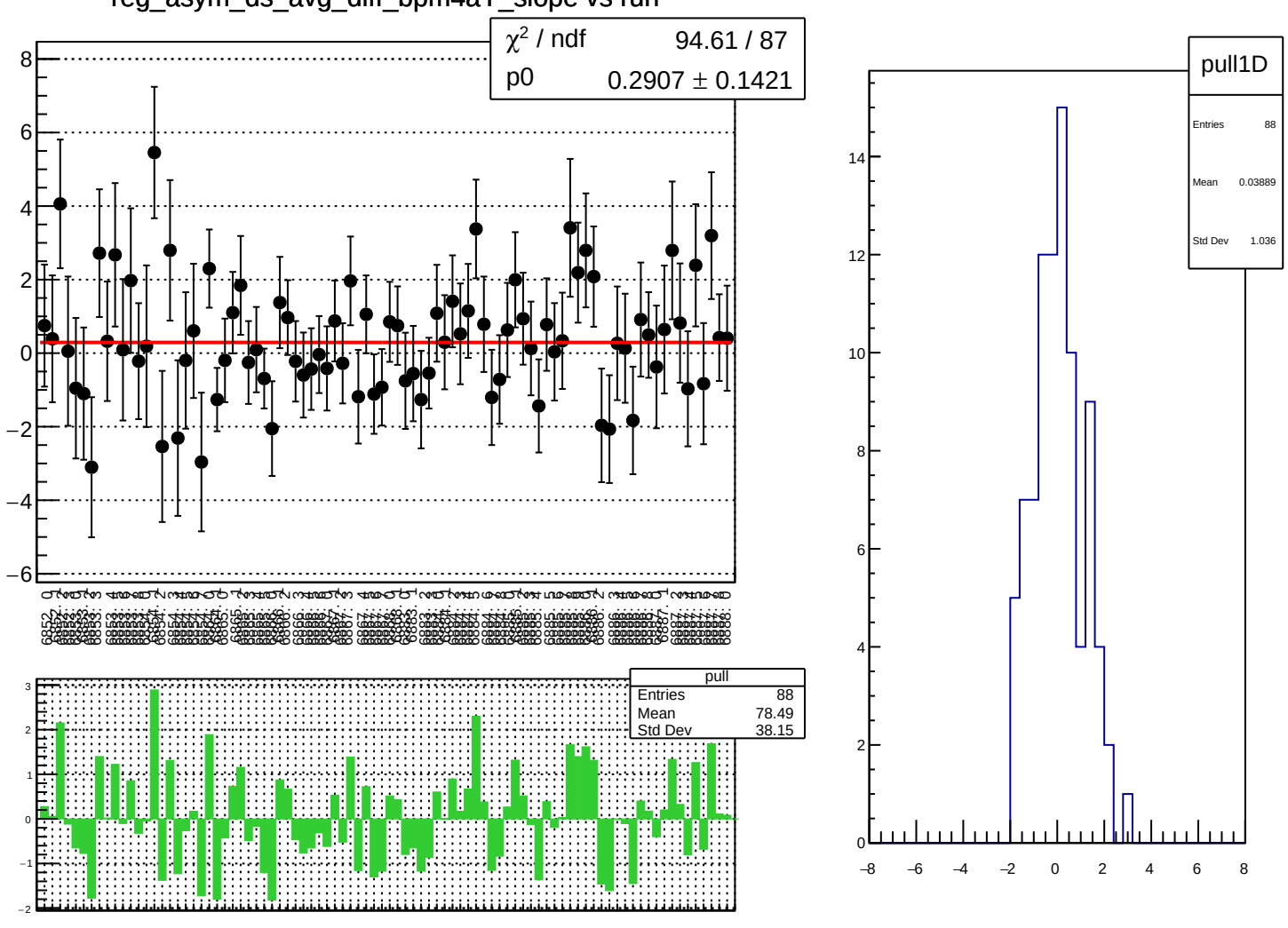

pull1D
Entries 88
Mean 0.007989
Std Dev 0.8496

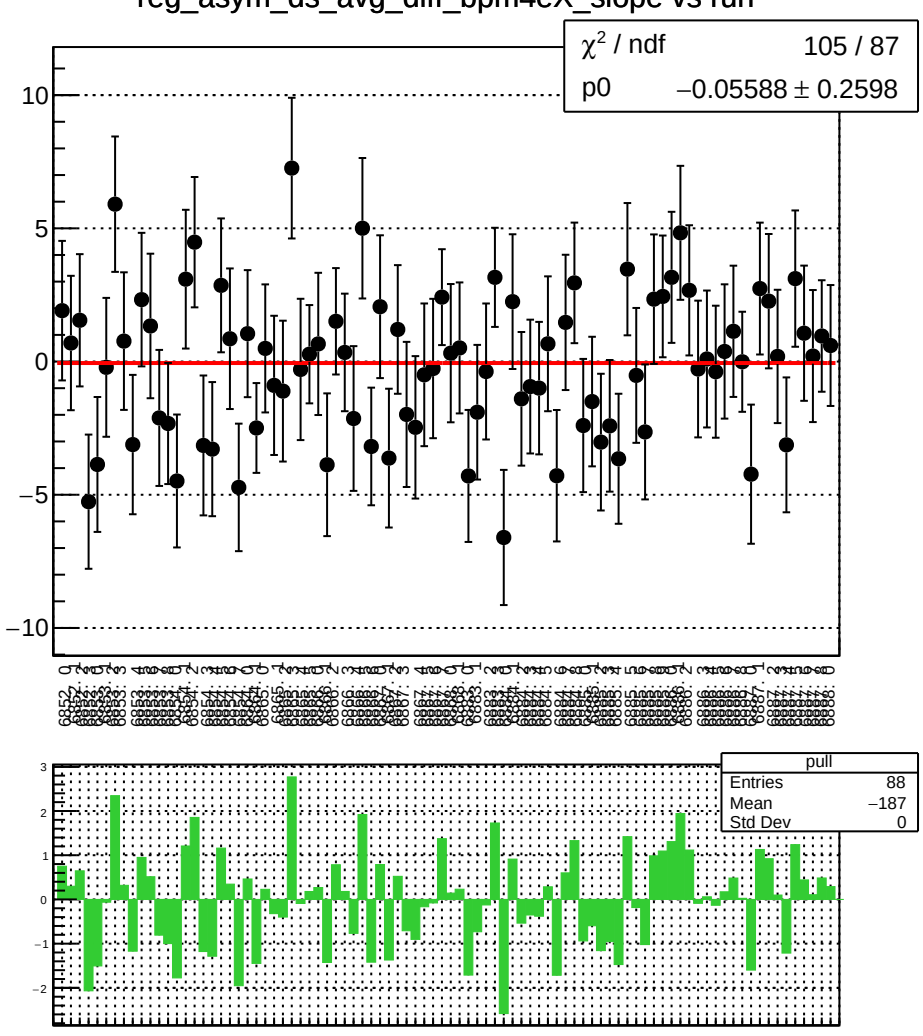

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 69.81 / 87
p0 −0.517 ± 0.04131
pull
Entries 88
Mean −127.1
Std Dev 0

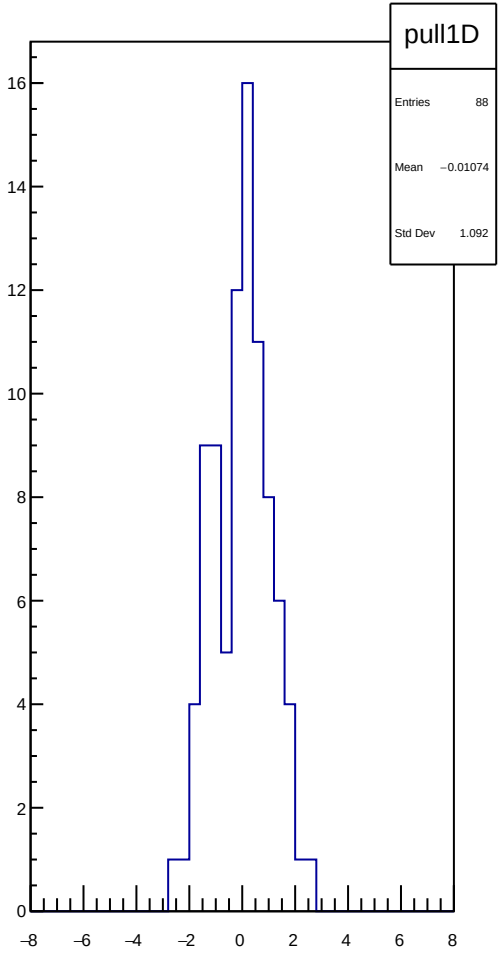

pull1D
Entries 88
Mean −0.04942
Std Dev 0.8893

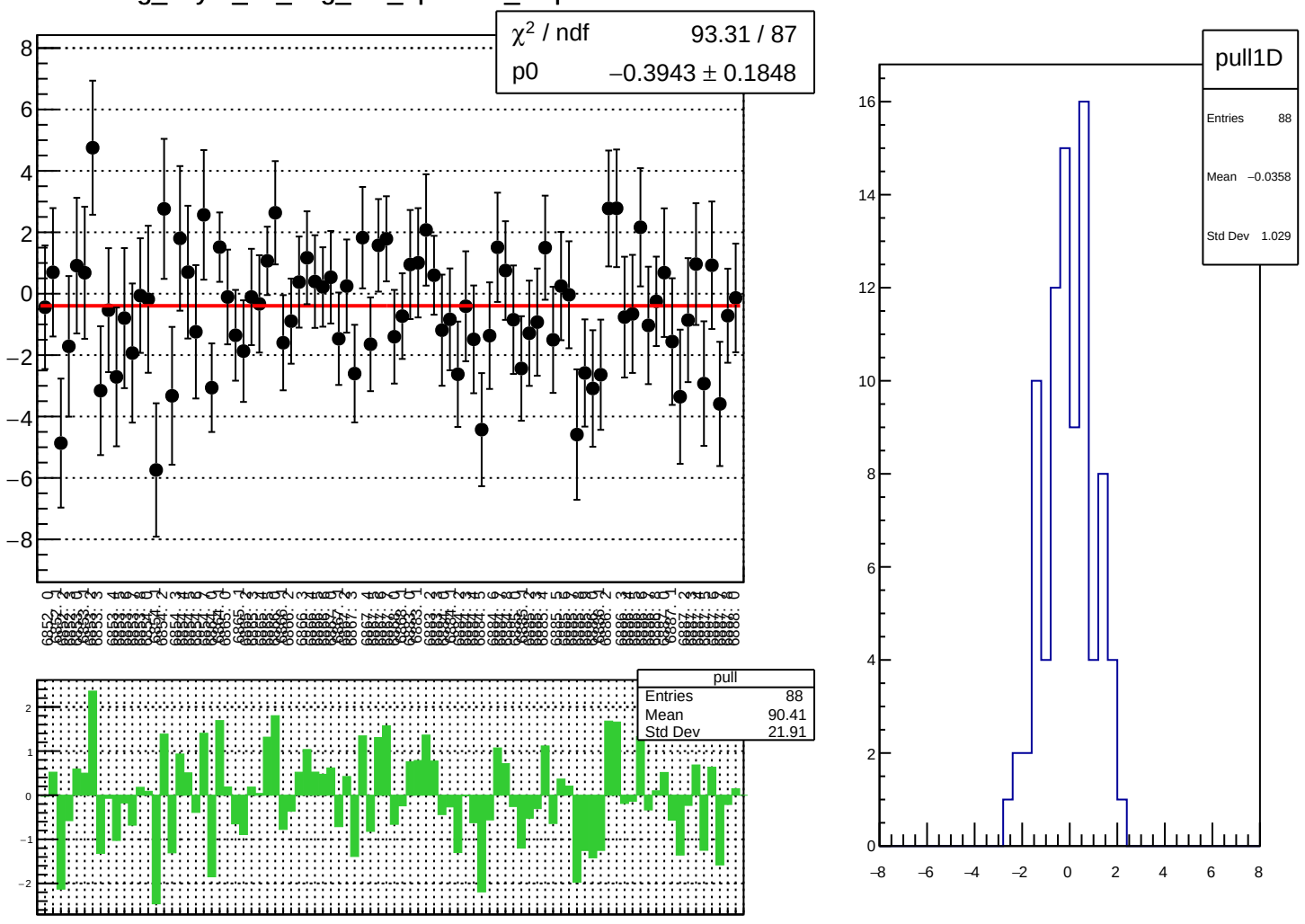

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 106.2 / 87
p0 0.05737 ± 0.2721
pull
Entries 88
Mean −127.1
Std Dev 0

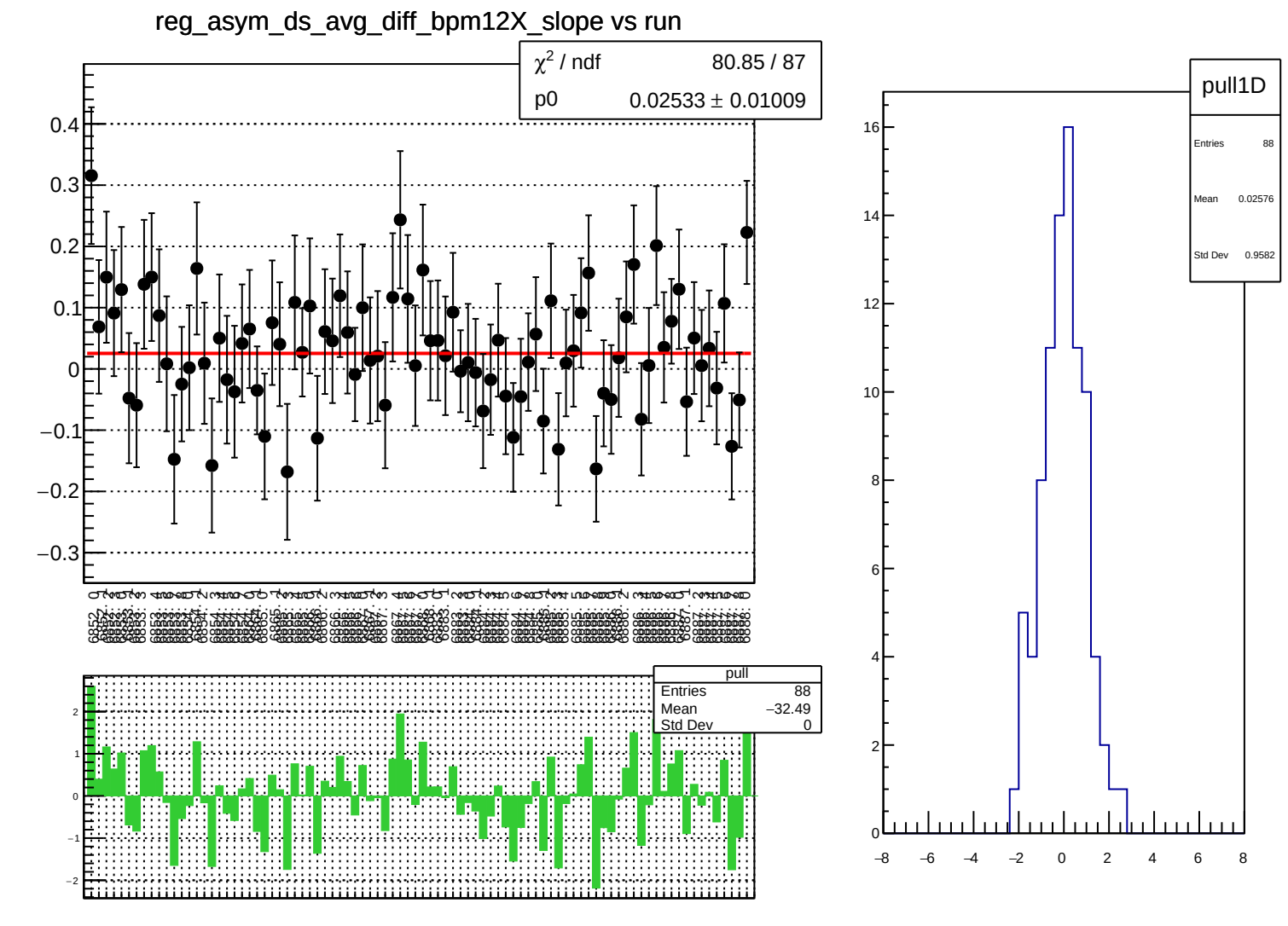

pull1D
Entries 88
Mean 0.01262
Std Dev 1.099

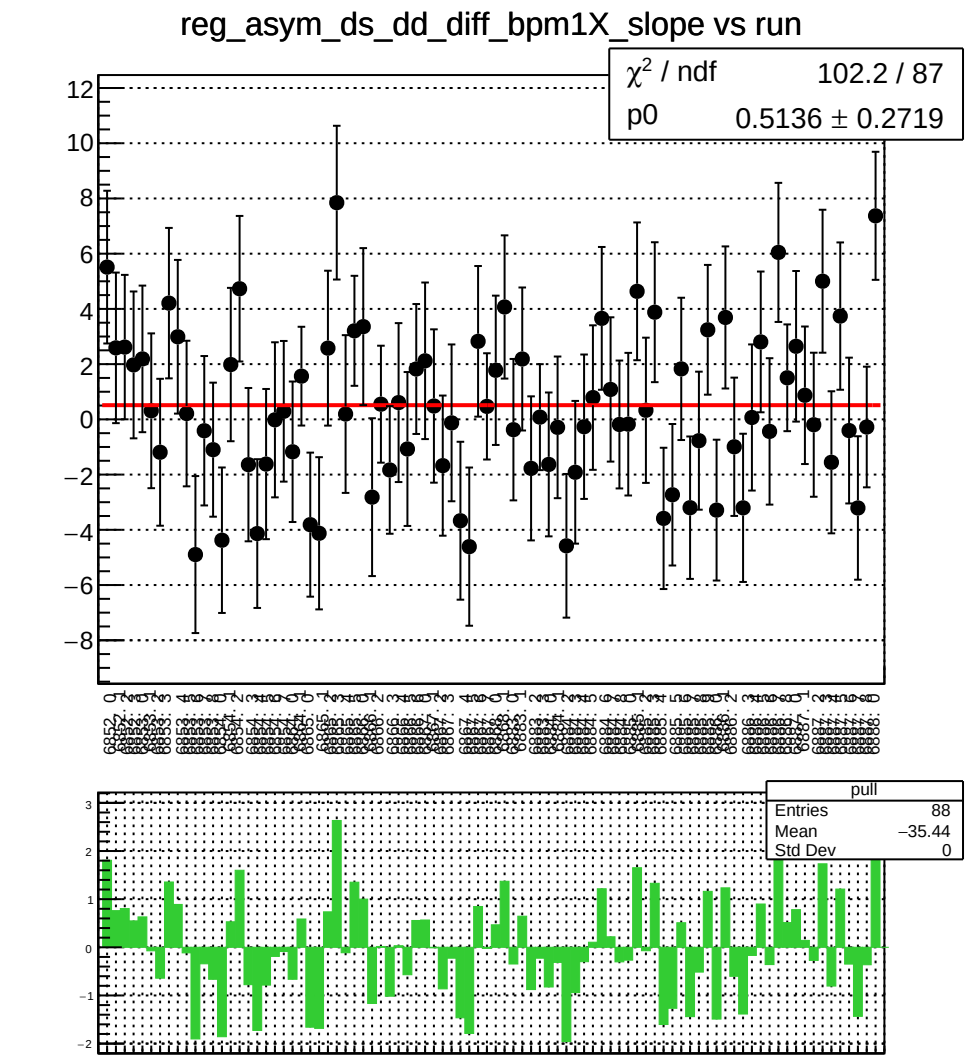

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 94.61 / 87
p0 0.2907 ± 0.1421
pull
Entries 88
Mean 78.49
Std Dev 38.15
pull1D
Entries 88
Mean 0.03889
Std Dev 1.036

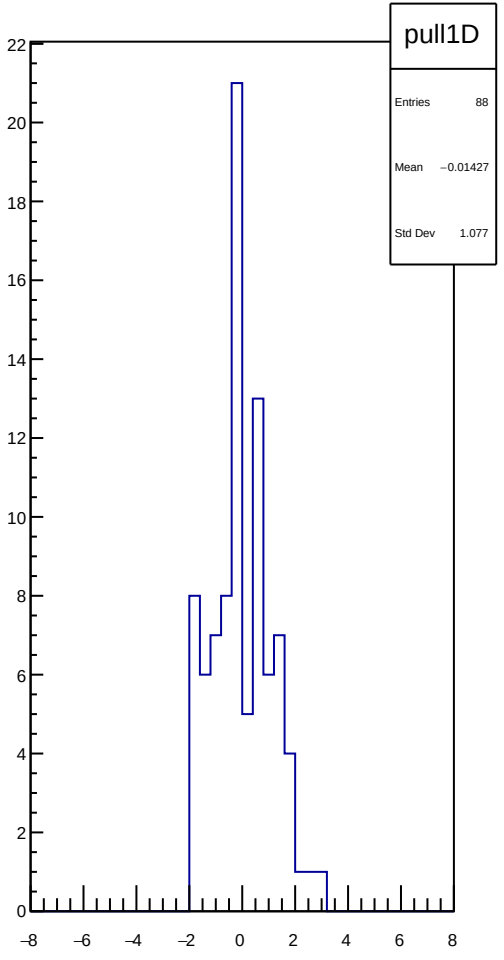

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 105 / 87
p0 −0.05588 ± 0.2598
pull
Entries 88
Mean −187
Std Dev 0

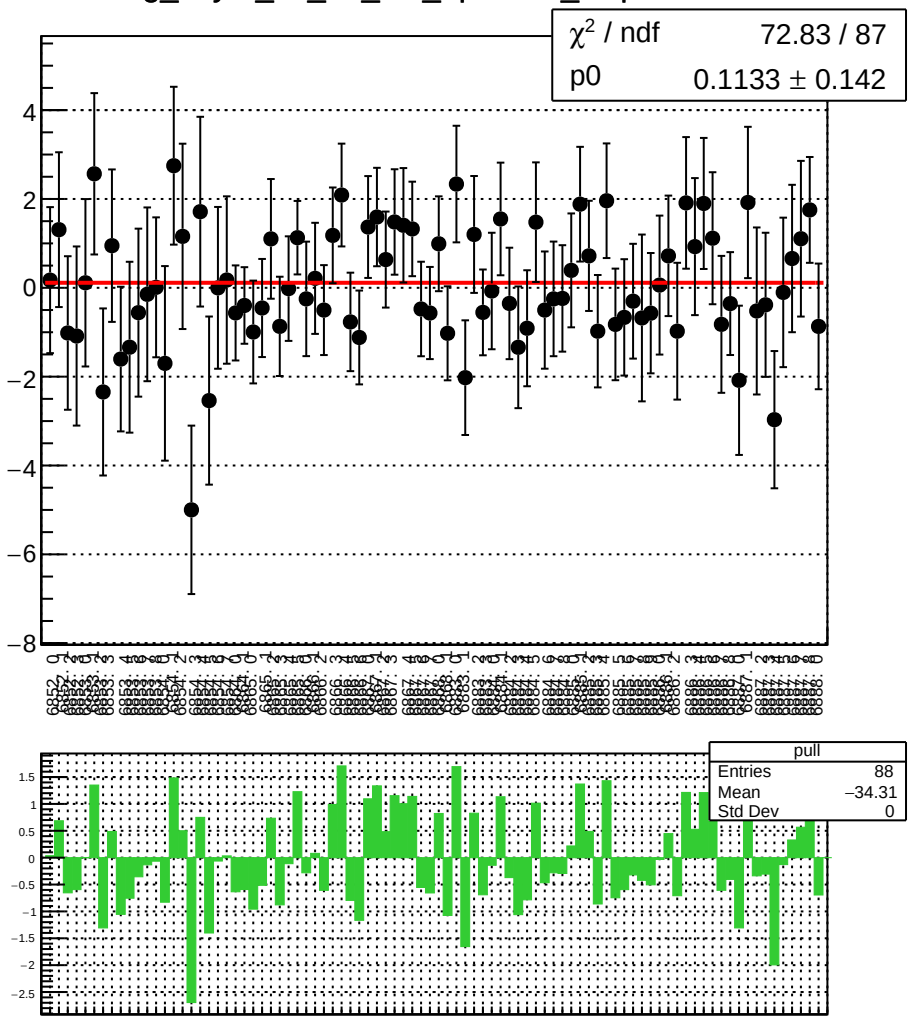

pull1D
Entries 88
Mean −0.01074
Std Dev 1.092

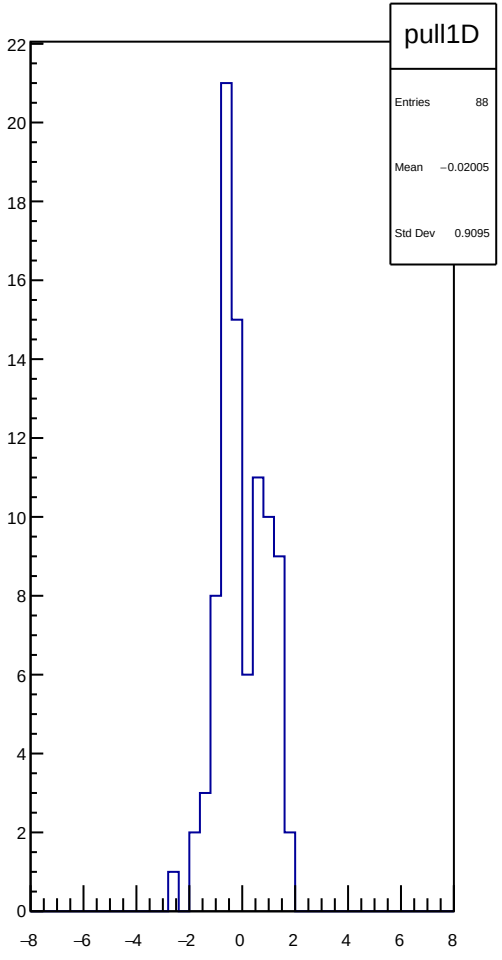

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 93.31 / 87
p0 −0.3943 ± 0.1848
pull
Entries 88
Mean 90.41
Std Dev 21.91
pull1D
Entries 88
Mean −0.0358
Std Dev 1.029

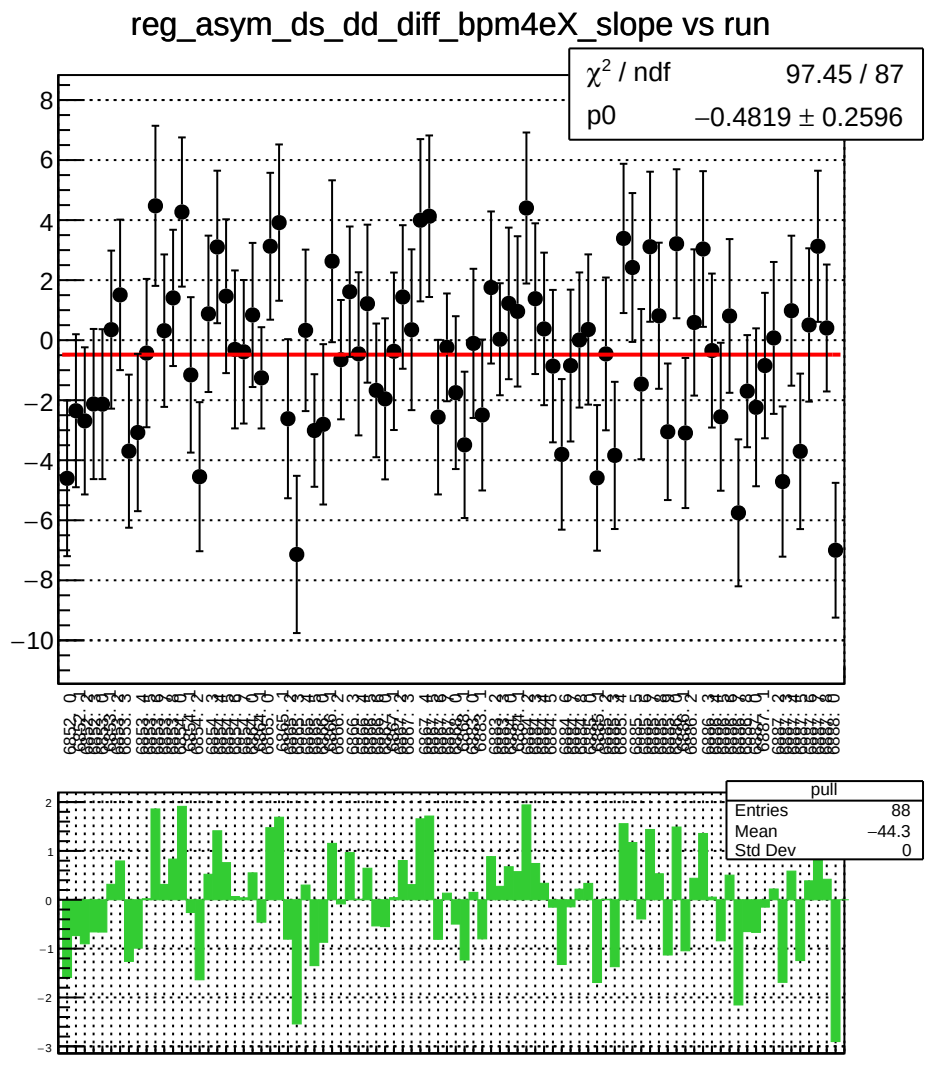

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 80.85 / 87
p0 0.02533 ± 0.01009
pull
Entries 88
Mean −32.49
Std Dev 0
pull1D
Entries 88
Mean 0.02576
Std Dev 0.9582

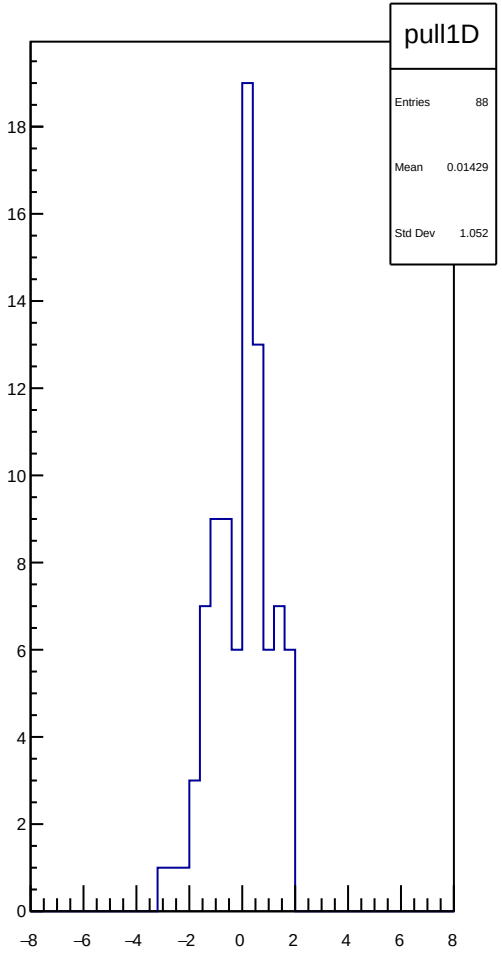

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 102.2 / 87
p0 0.5136 ± 0.2719
pull
Entries 88
Mean −35.44
Std Dev 0

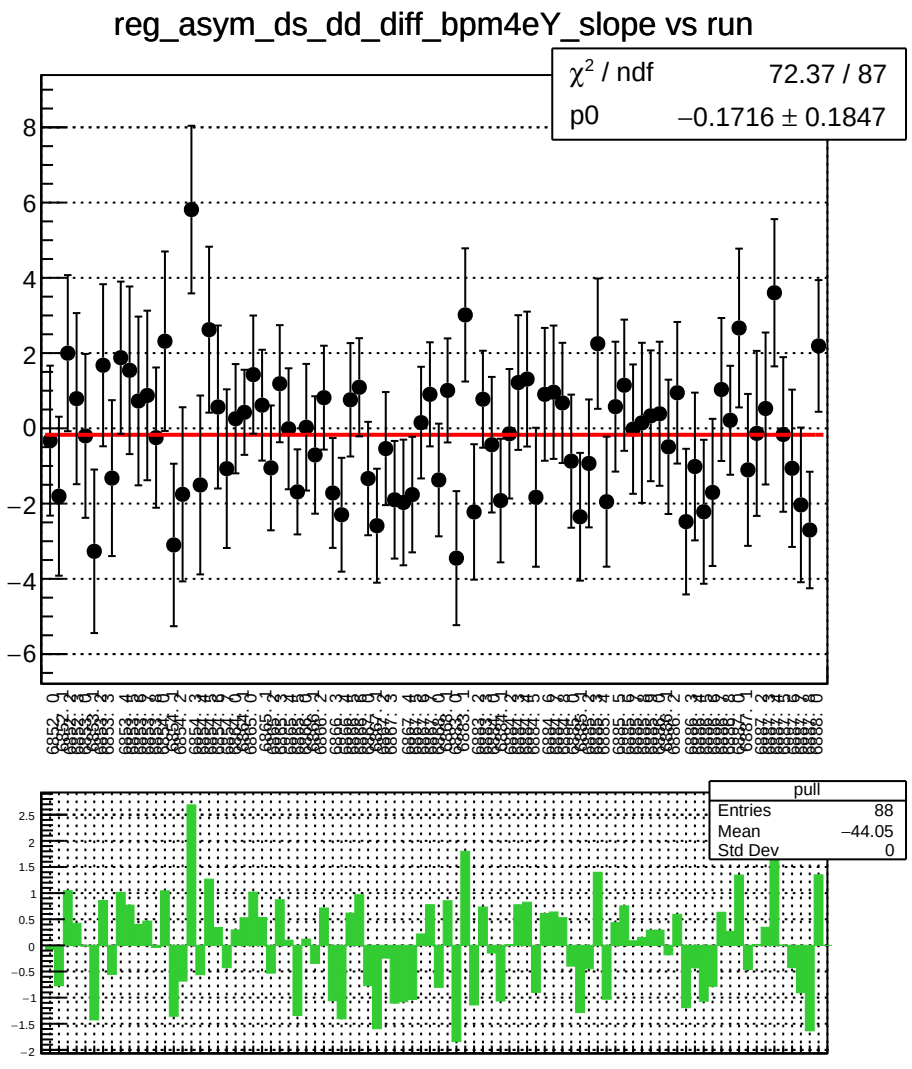

pull1D
Entries 88
Mean −0.01427
Std Dev 1.077

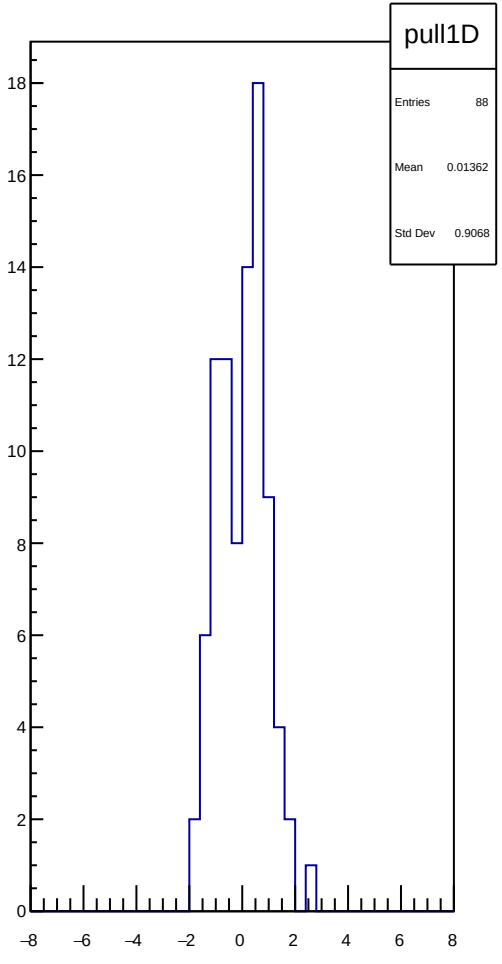

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.83 / 87
p0 0.1133 ± 0.142
pull
Entries 88
Mean −34.31
Std Dev 0

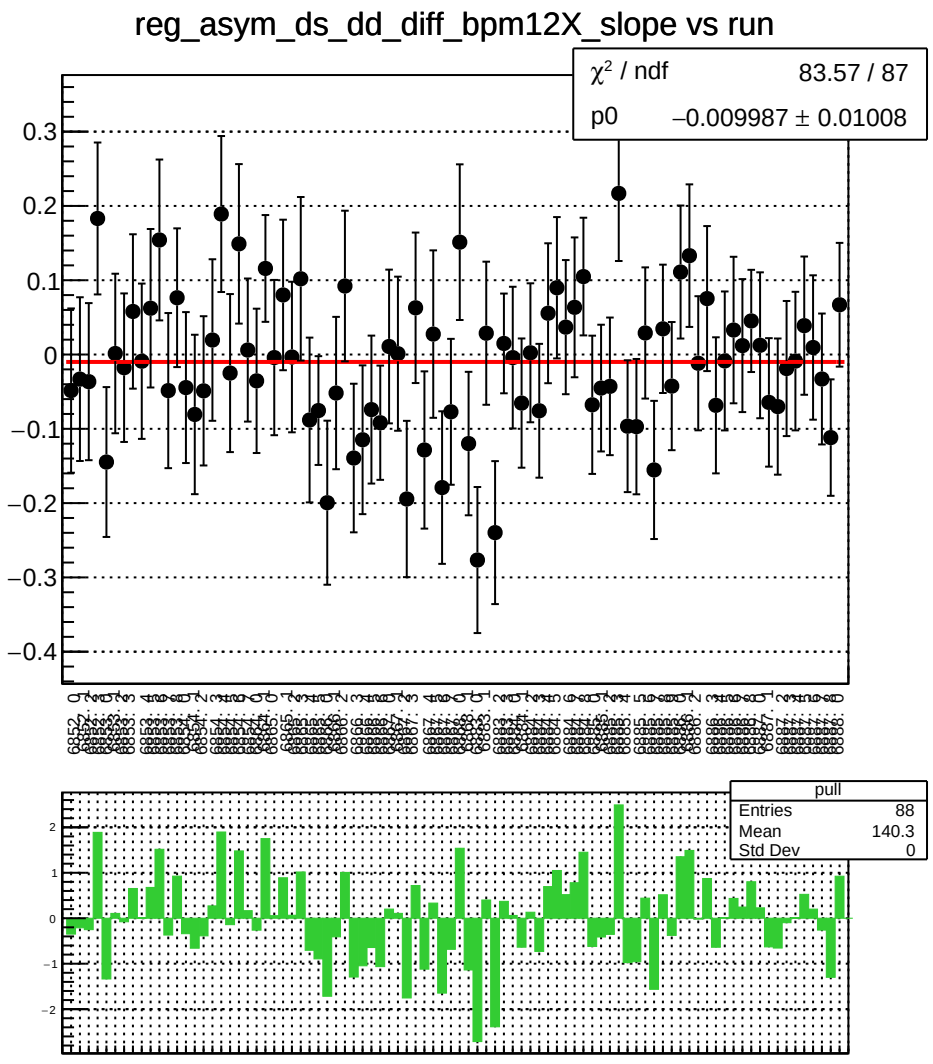

pull1D
Entries 88
Mean −0.02005
Std Dev 0.9095

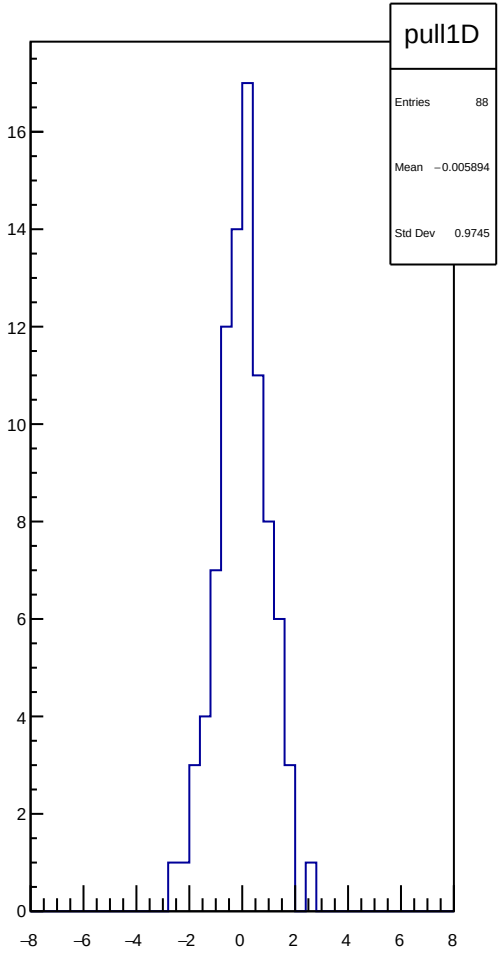

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 97.45 / 87
p0 −0.4819 ± 0.2596
pull
Entries 88
Mean −44.3
Std Dev 0

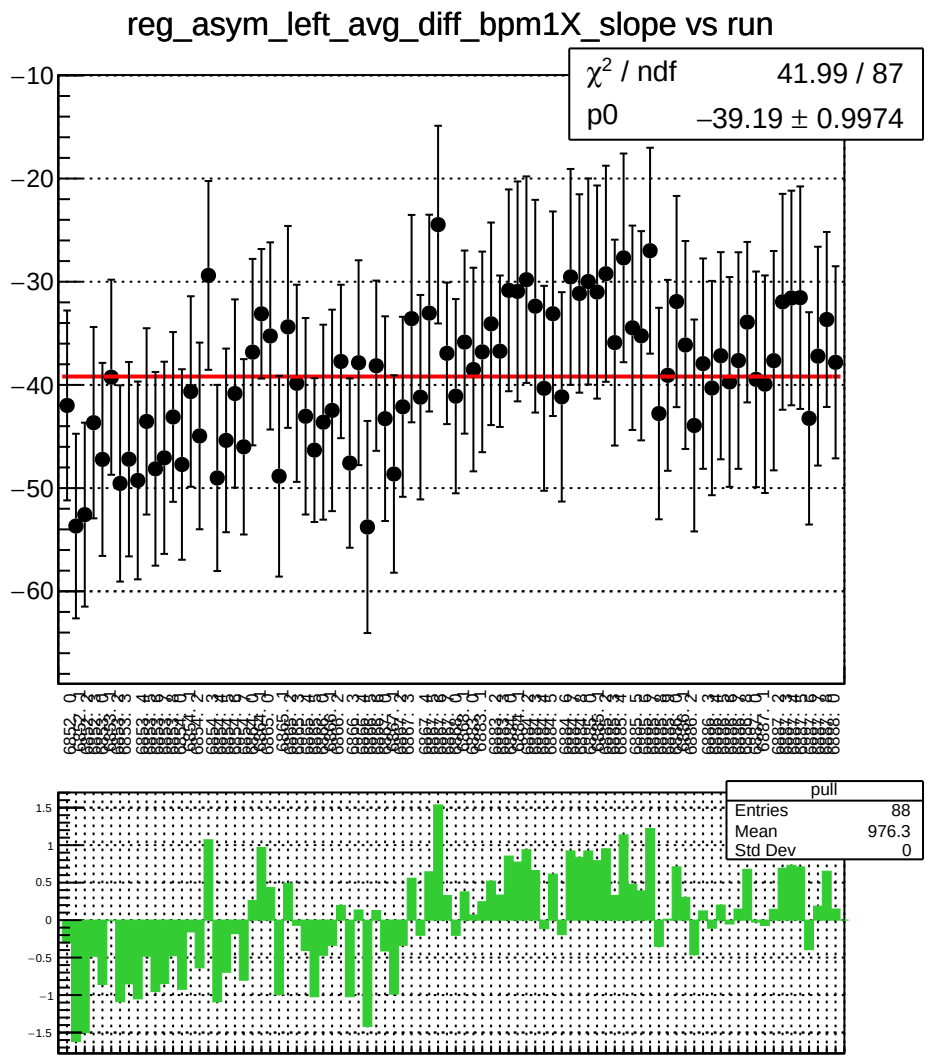

pull1D
Entries 88
Mean 0.01429
Std Dev 1.052

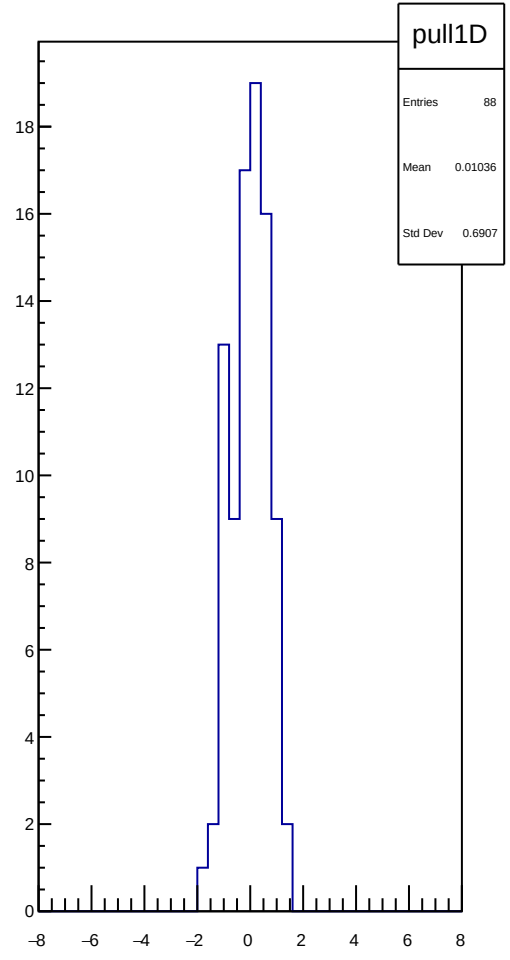

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.37 / 87
p0 −0.1716 ± 0.1847
pull
Entries 88
Mean −44.05
Std Dev 0

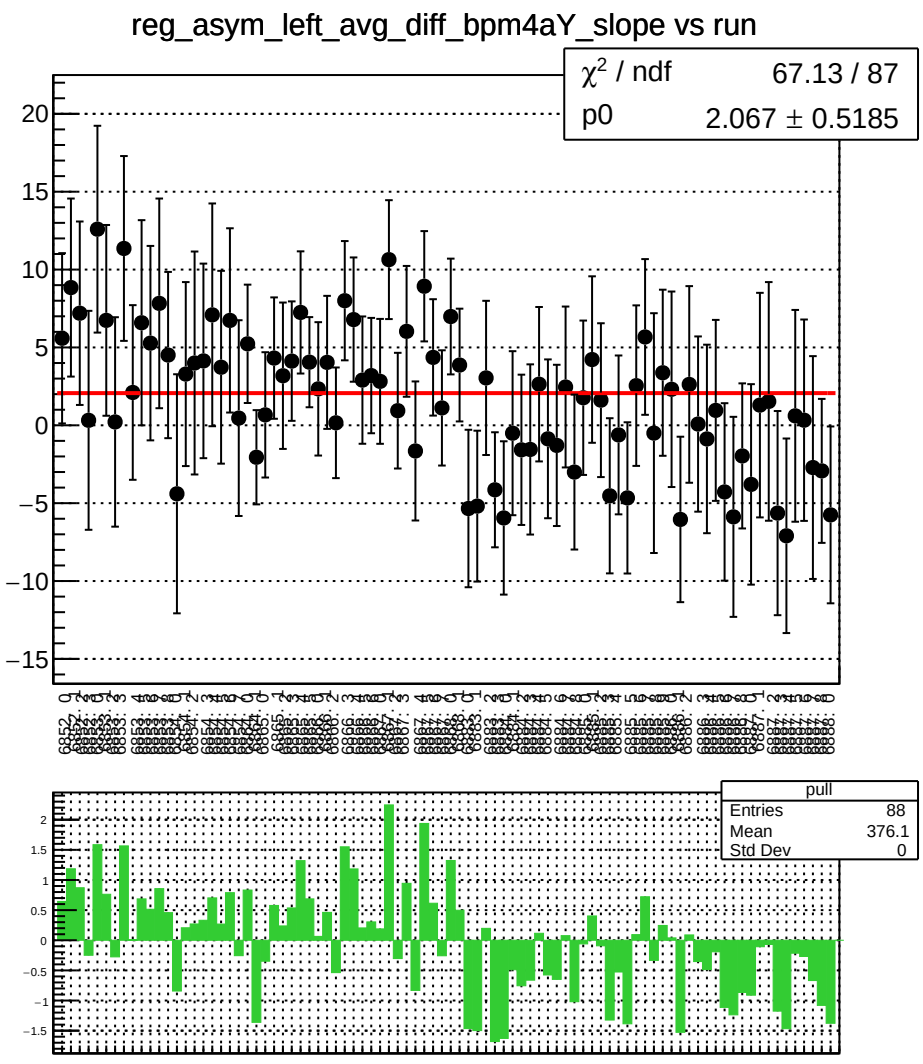

pull1D
Entries 88
Mean 0.01362
Std Dev 0.9068

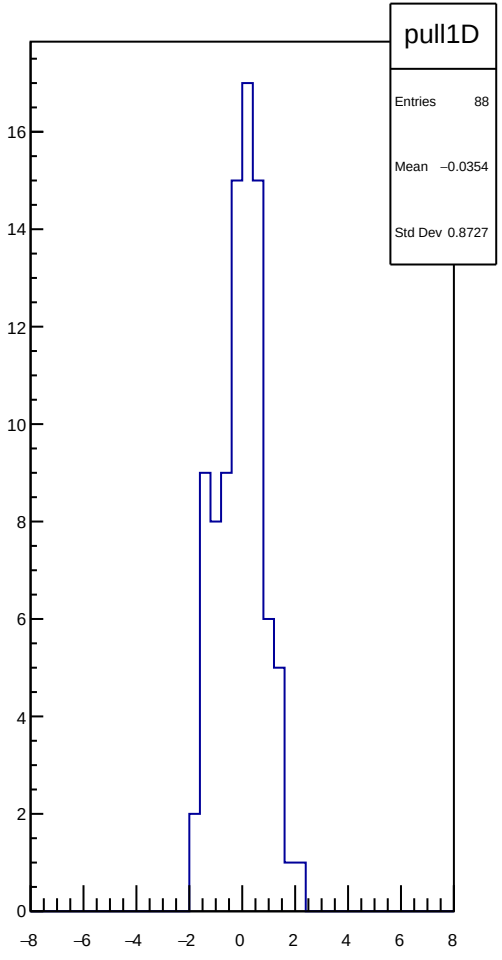

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 83.57 / 87
p0 −0.009987 ± 0.01008
pull
Entries 88
Mean 140.3
Std Dev 0

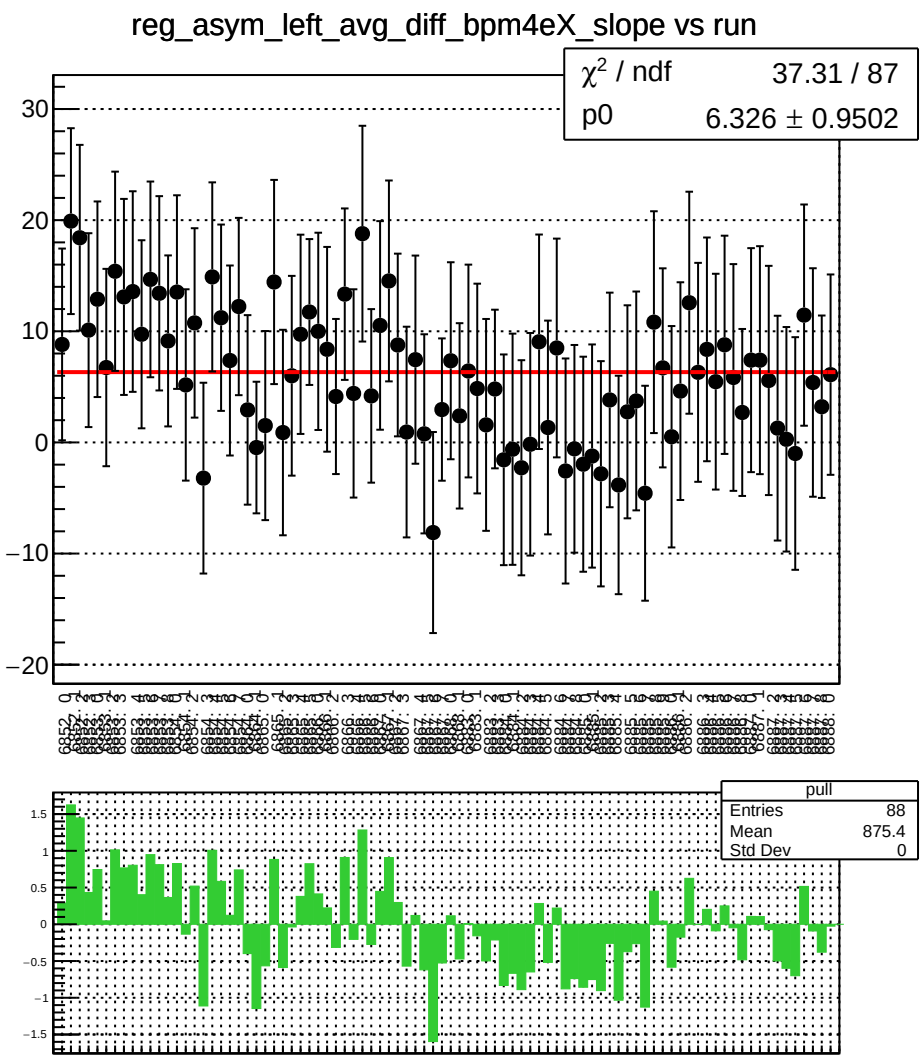

pull1D
Entries 88
Mean −0.005894
Std Dev 0.9745

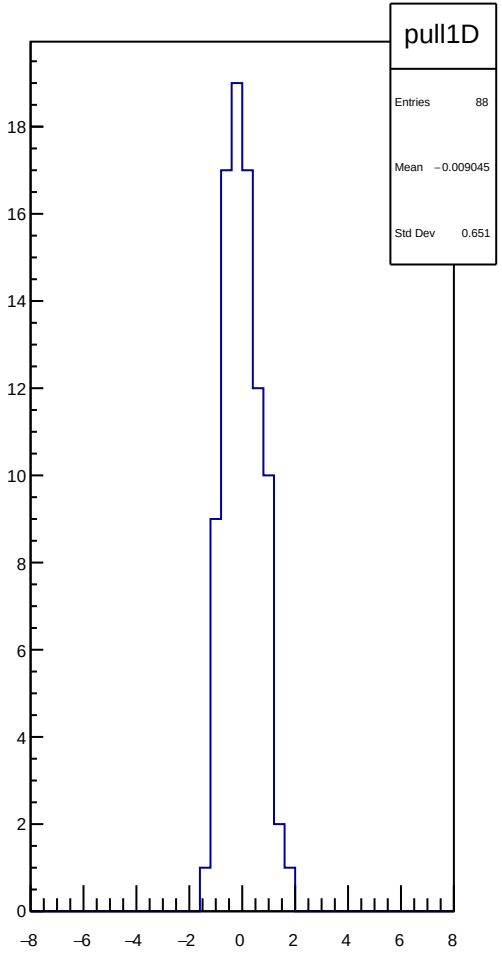

reg_asym_left_avg_diff_bpm1X_slope vs run
χ^2 / ndf 41.99 / 87
p0 −39.19 ± 0.9974
pull
Entries 88
Mean 976.3
Std Dev 0

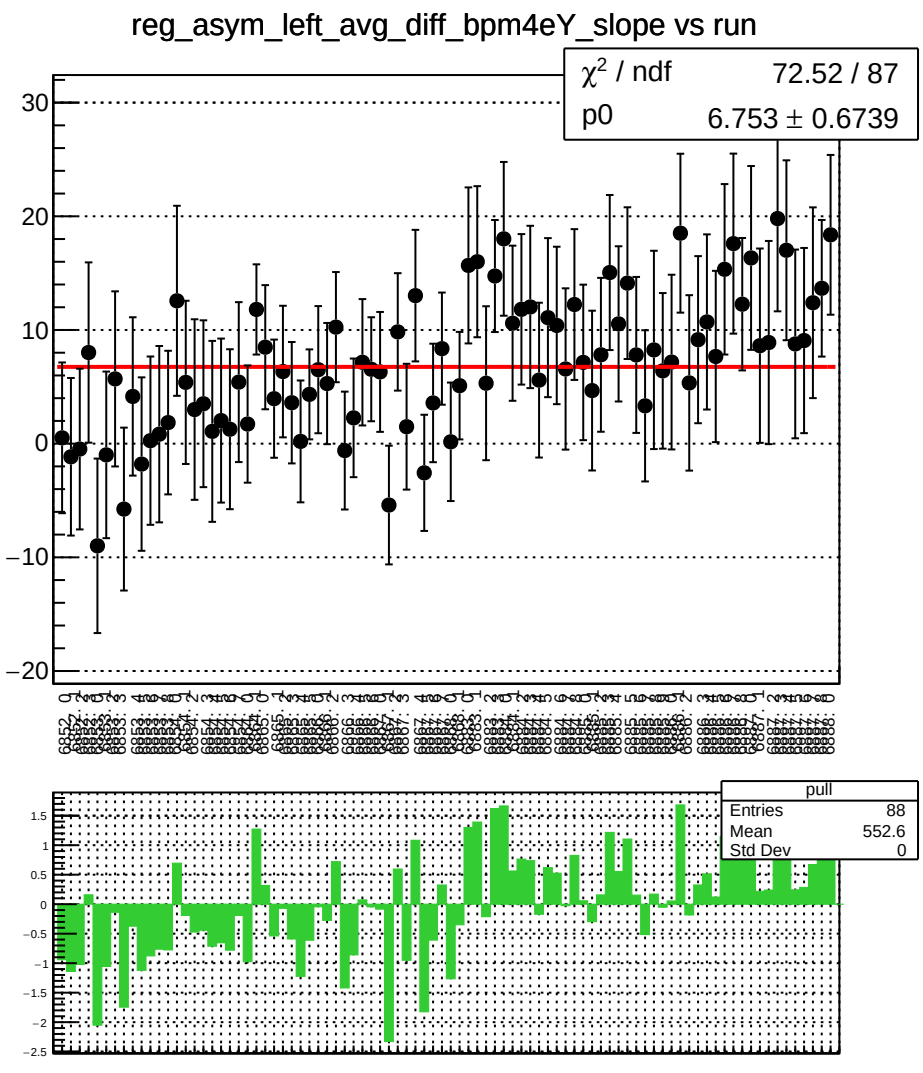

pull1D
Entries 88
Mean 0.01036
Std Dev 0.6907

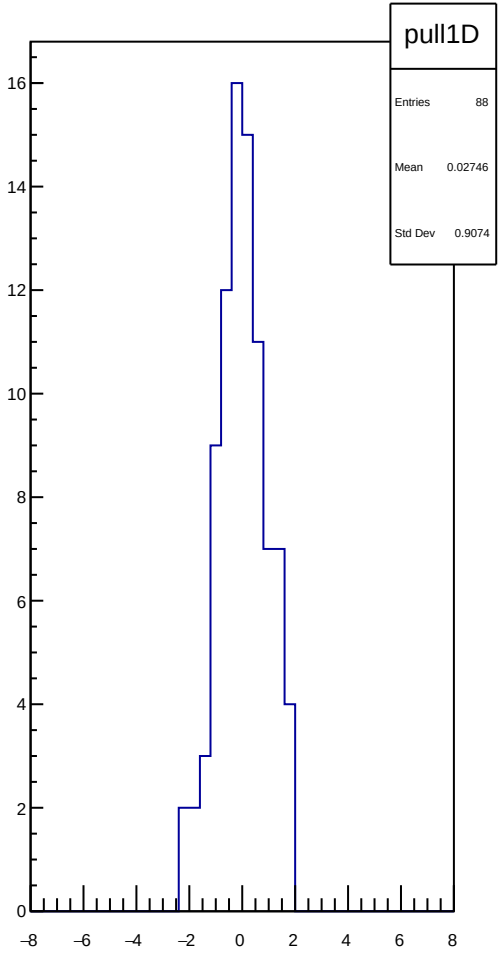

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 67.13 / 87
p0 2.067 ± 0.5185
pull
Entries 88
Mean 376.1
Std Dev 0

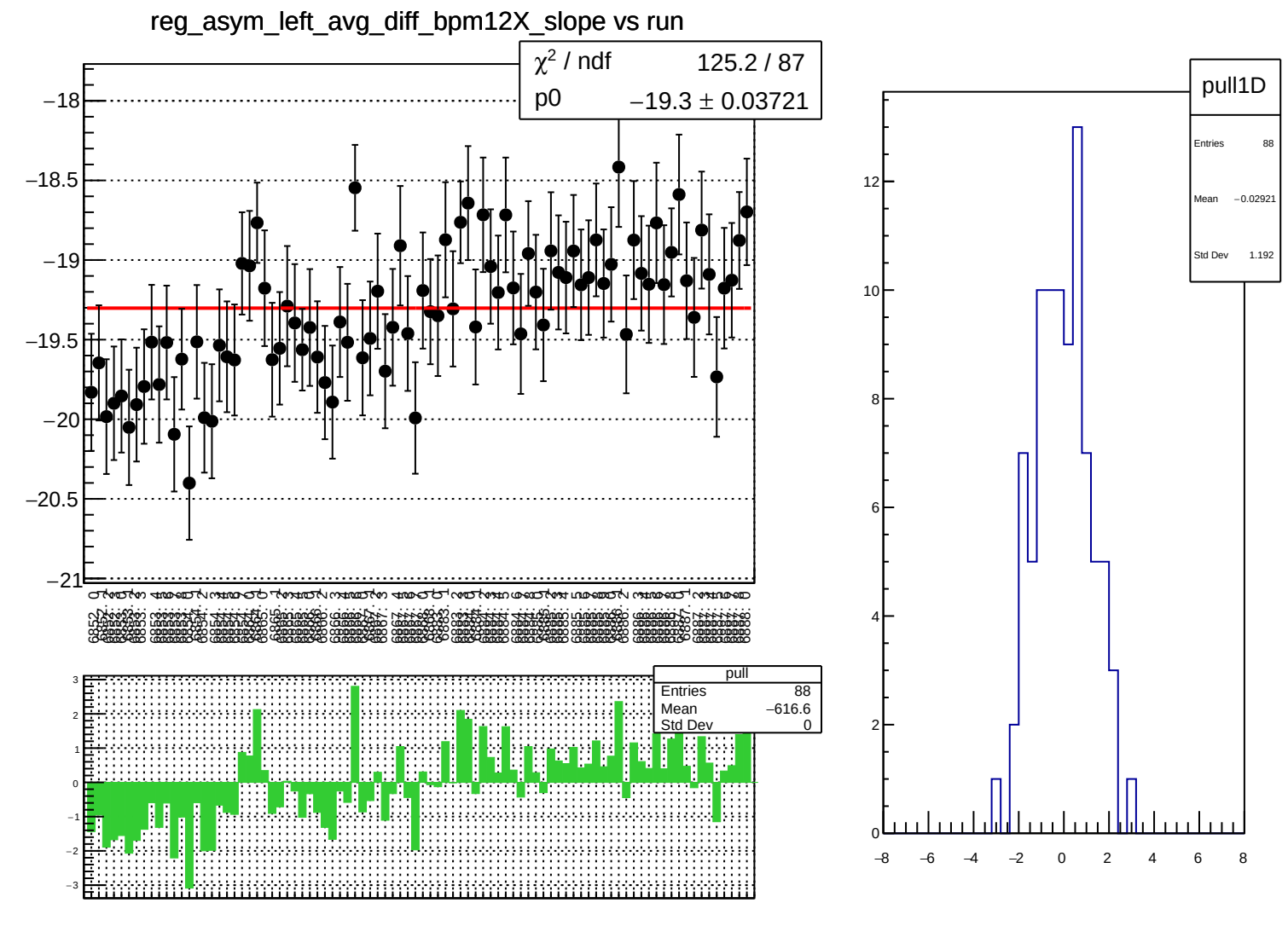

pull1D
Entries 88
Mean −0.0354
Std Dev 0.8727

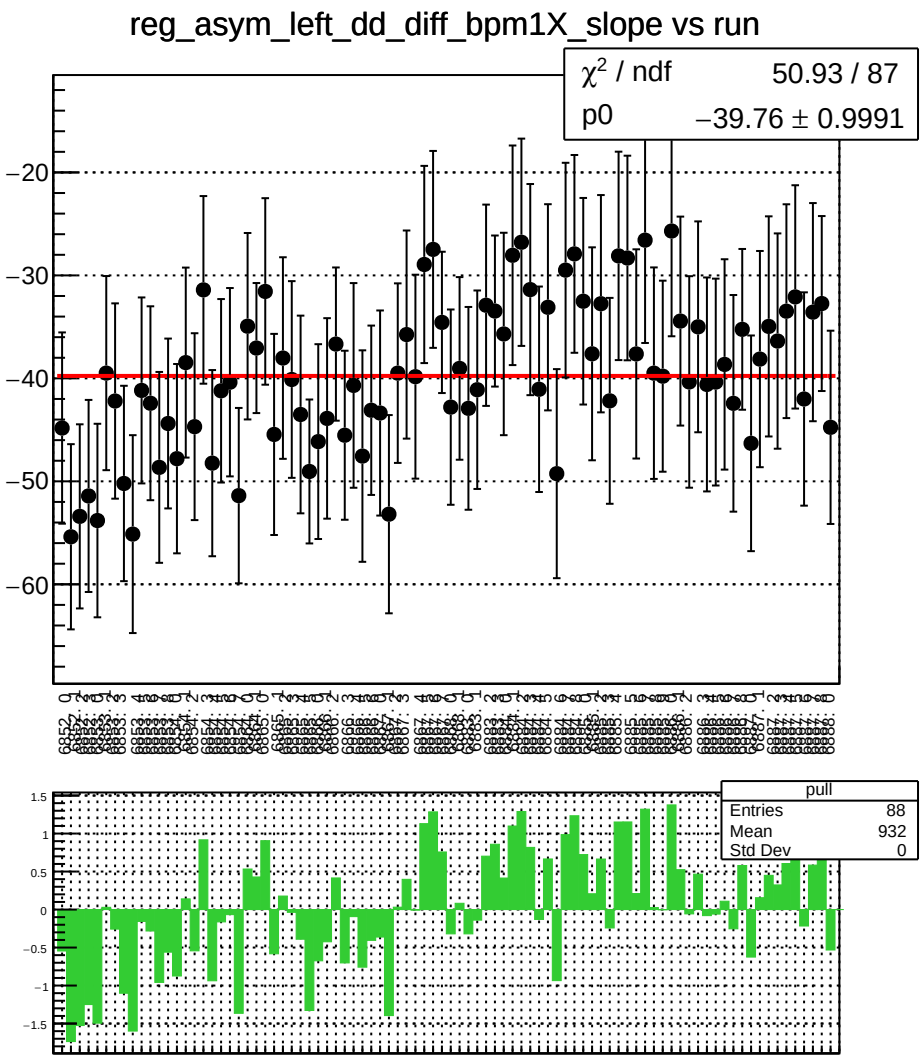

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.31 / 87
p0 6.326 ± 0.9502
pull
Entries 88
Mean 875.4
Std Dev 0

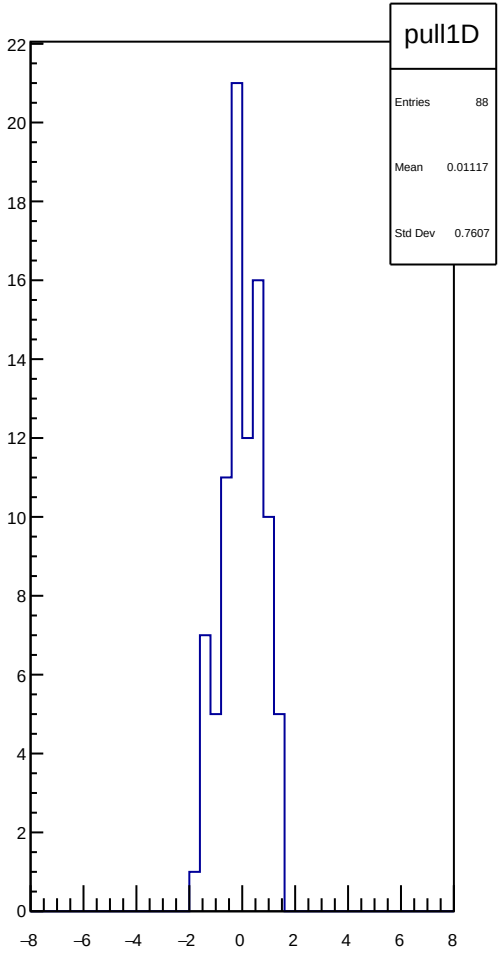

pull1D
Entries 88
Mean −0.009045
Std Dev 0.651

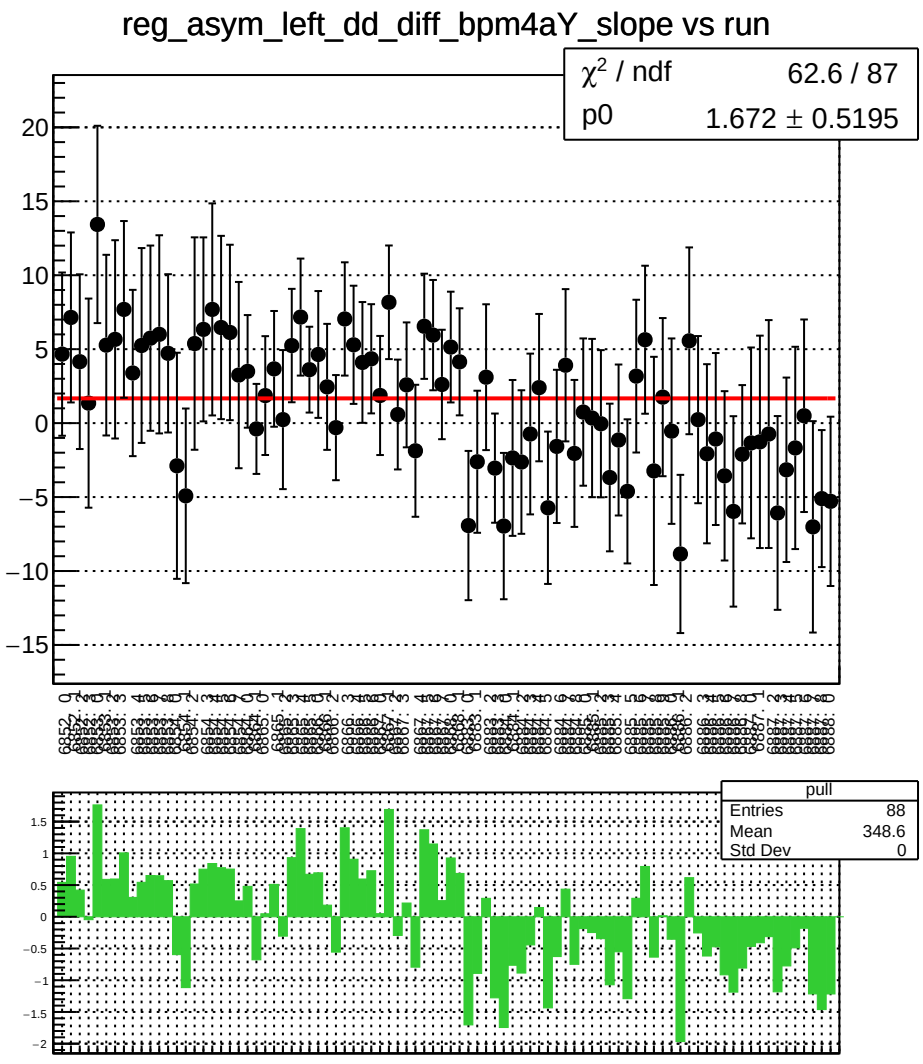

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 72.52 / 87
p0 6.753 ± 0.6739
pull
Entries 88
Mean 552.6
Std Dev 0

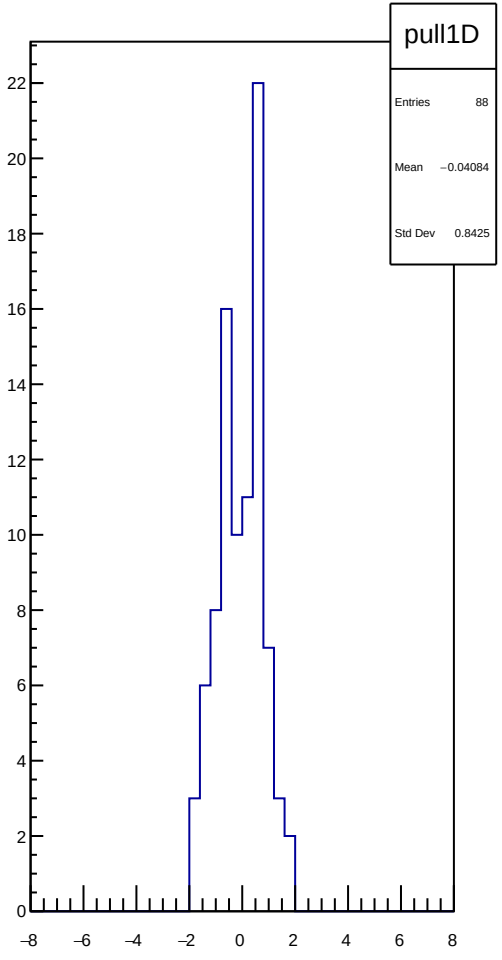

pull1D
Entries 88
Mean 0.02746
Std Dev 0.9074

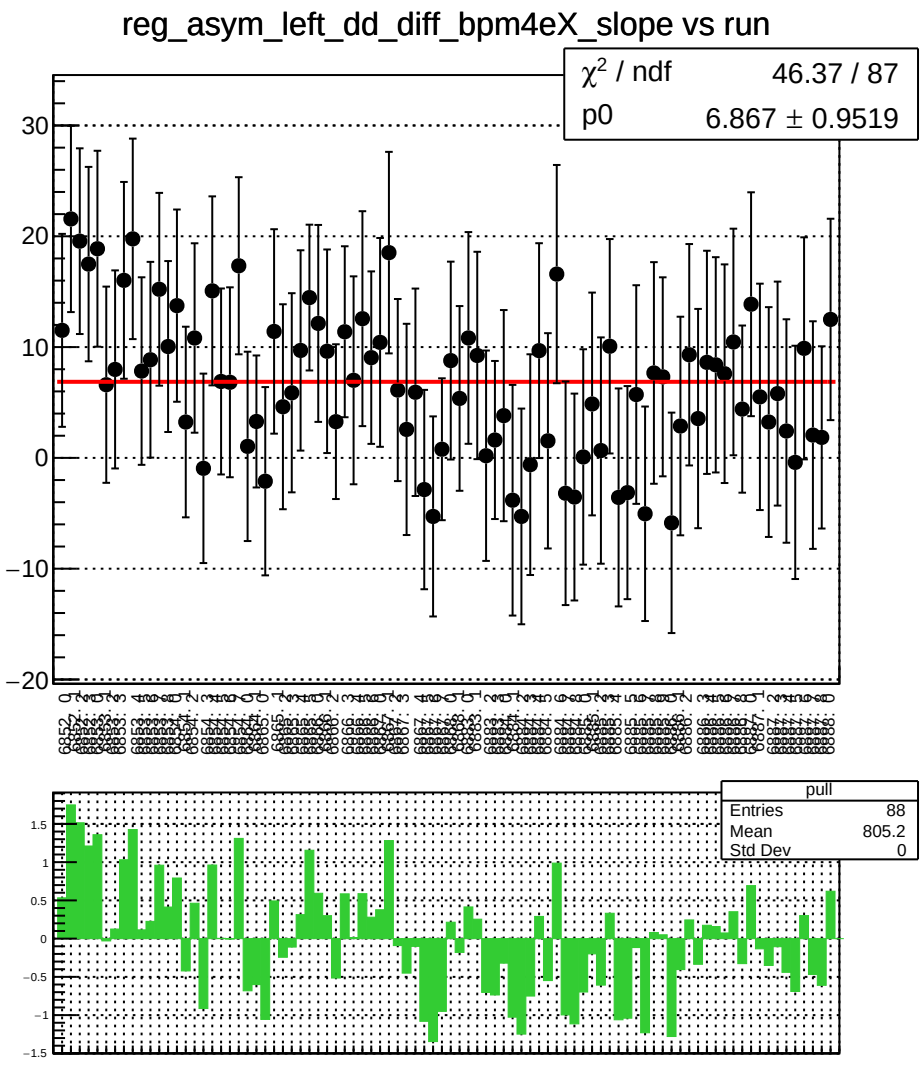

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 125.2 / 87
p0 −19.3 ± 0.03721
−18
−18.5
−19
−19.5
−20
−20.5
−21
pull
Entries 88
Mean −616.6
Std Dev 0
pull1D
Entries 88
Mean −0.02921
Std Dev 1.192
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

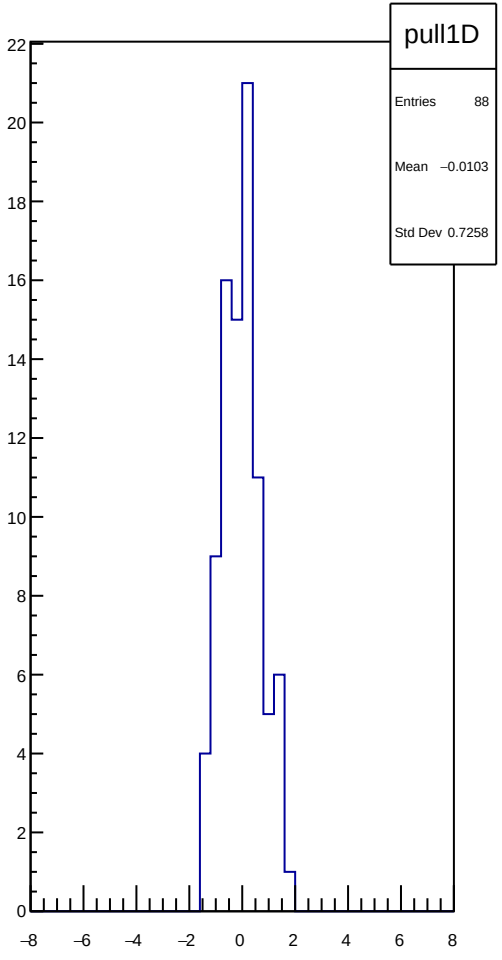

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 50.93 / 87
p0 −39.76 ± 0.9991
−20
−30
−40
−50
−60
pull
Entries 88
Mean 932
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

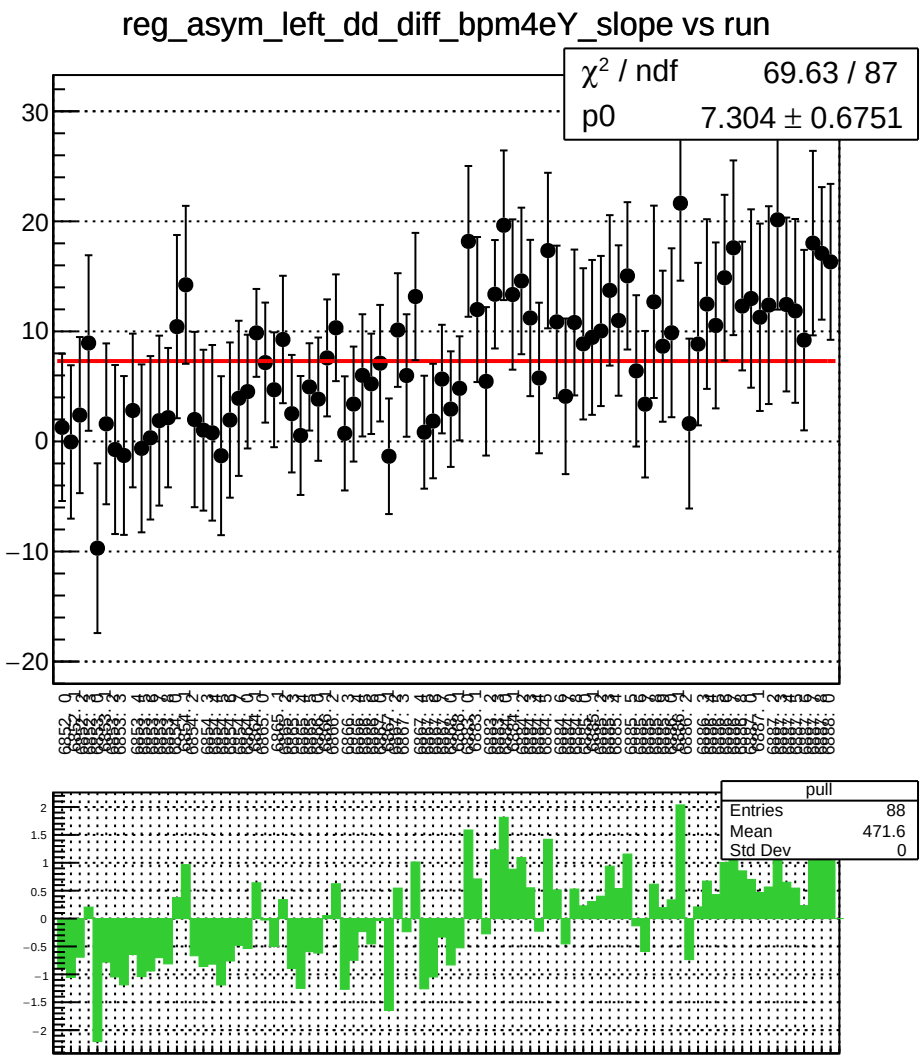

pull1D
Entries 88
Mean 0.01117
Std Dev 0.7607
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

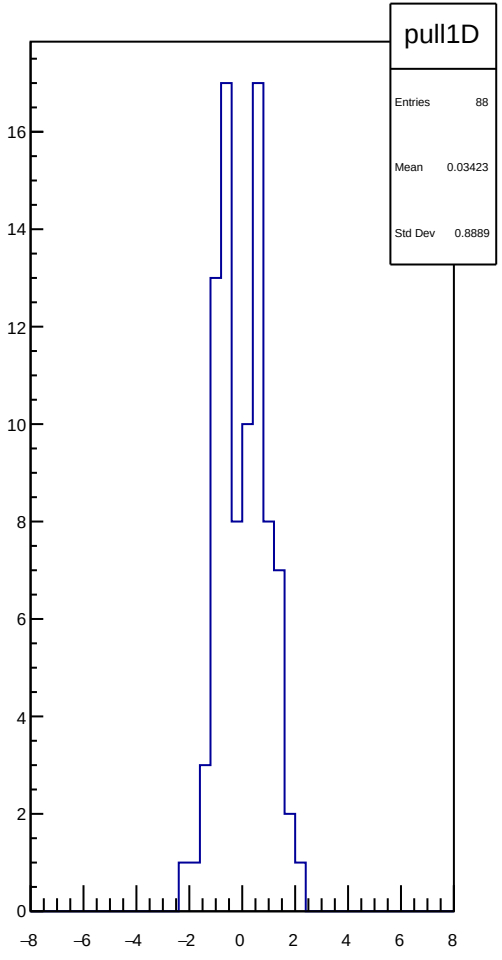

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.6 / 87
p0 1.672 ± 0.5195
pull
Entries 88
Mean 348.6
Std Dev 0

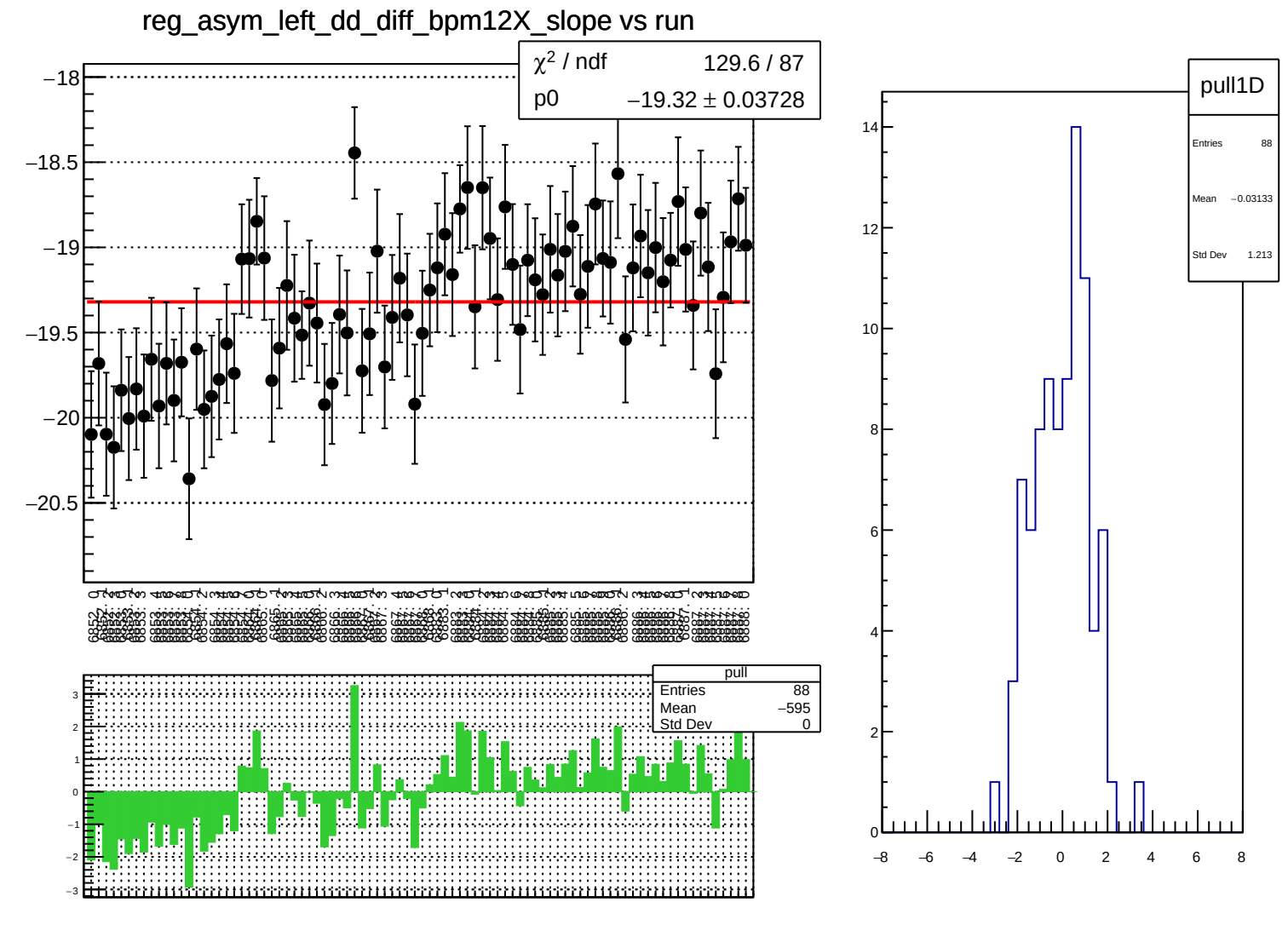

pull1D
Entries 88
Mean −0.04084
Std Dev 0.8425

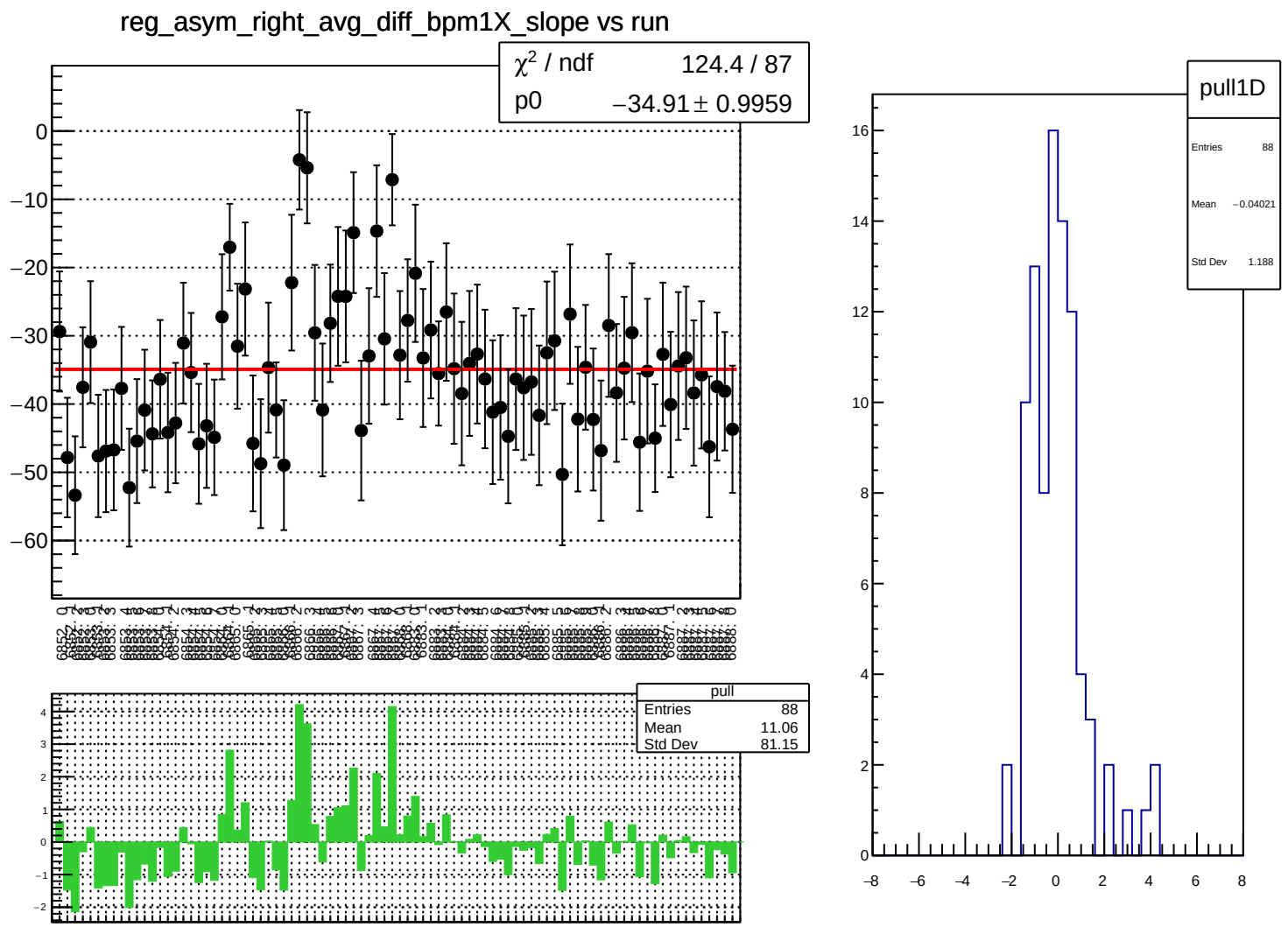

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.37 / 87
p0 6.867 ± 0.9519
pull
Entries 88
Mean 805.2
Std Dev 0

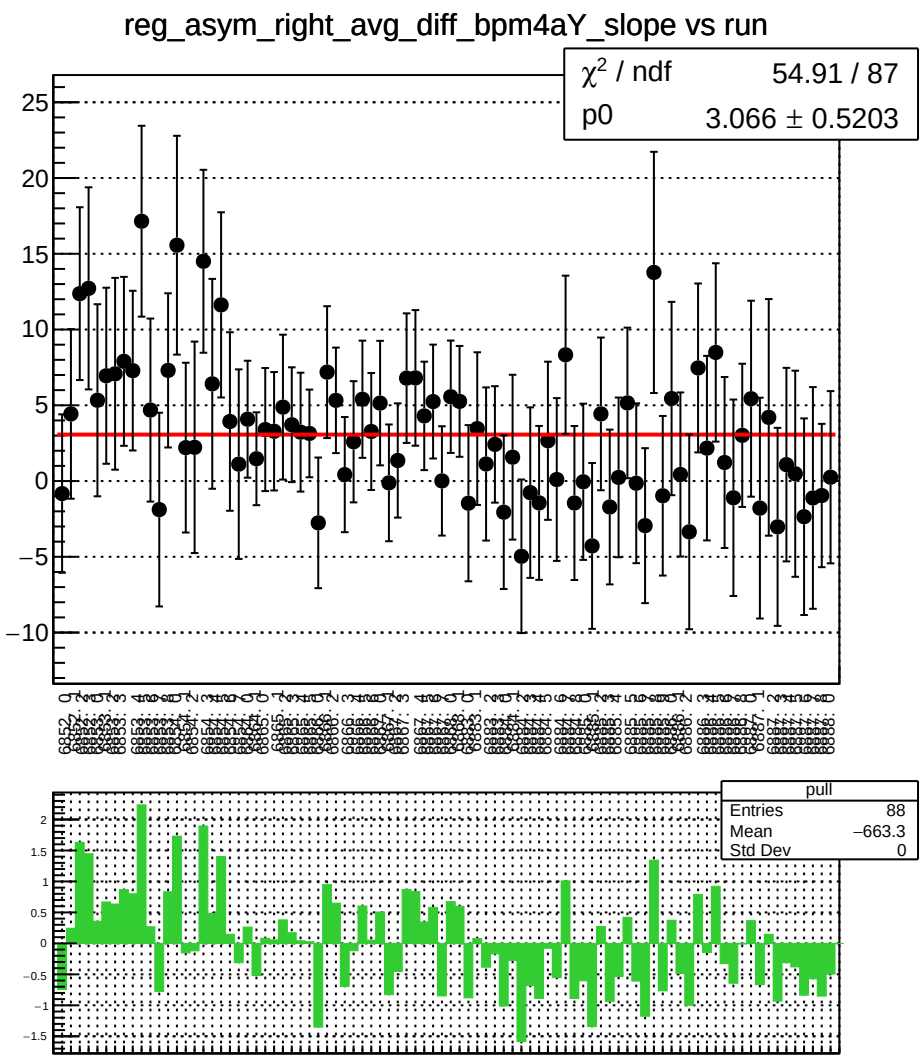

pull1D
Entries 88
Mean −0.0103
Std Dev 0.7258

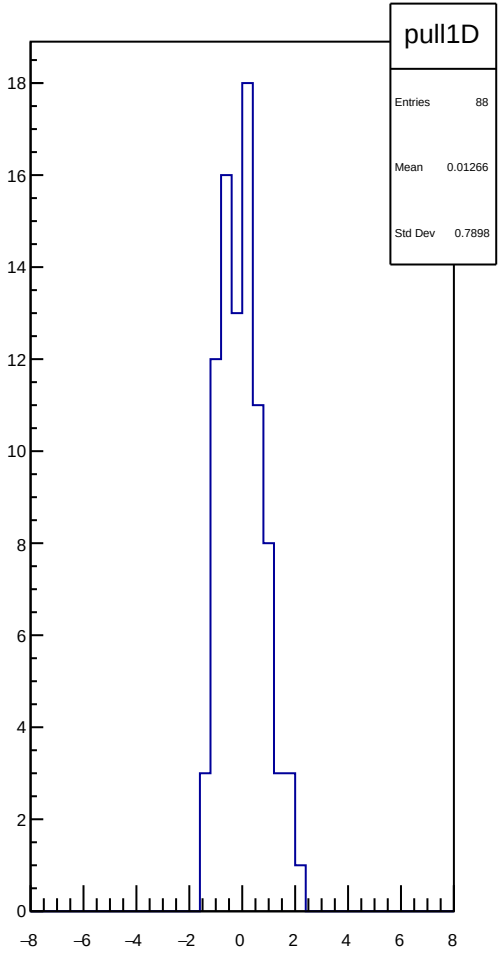

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 69.63 / 87
p0 7.304 ± 0.6751
pull
Entries 88
Mean 471.6
Std Dev 0

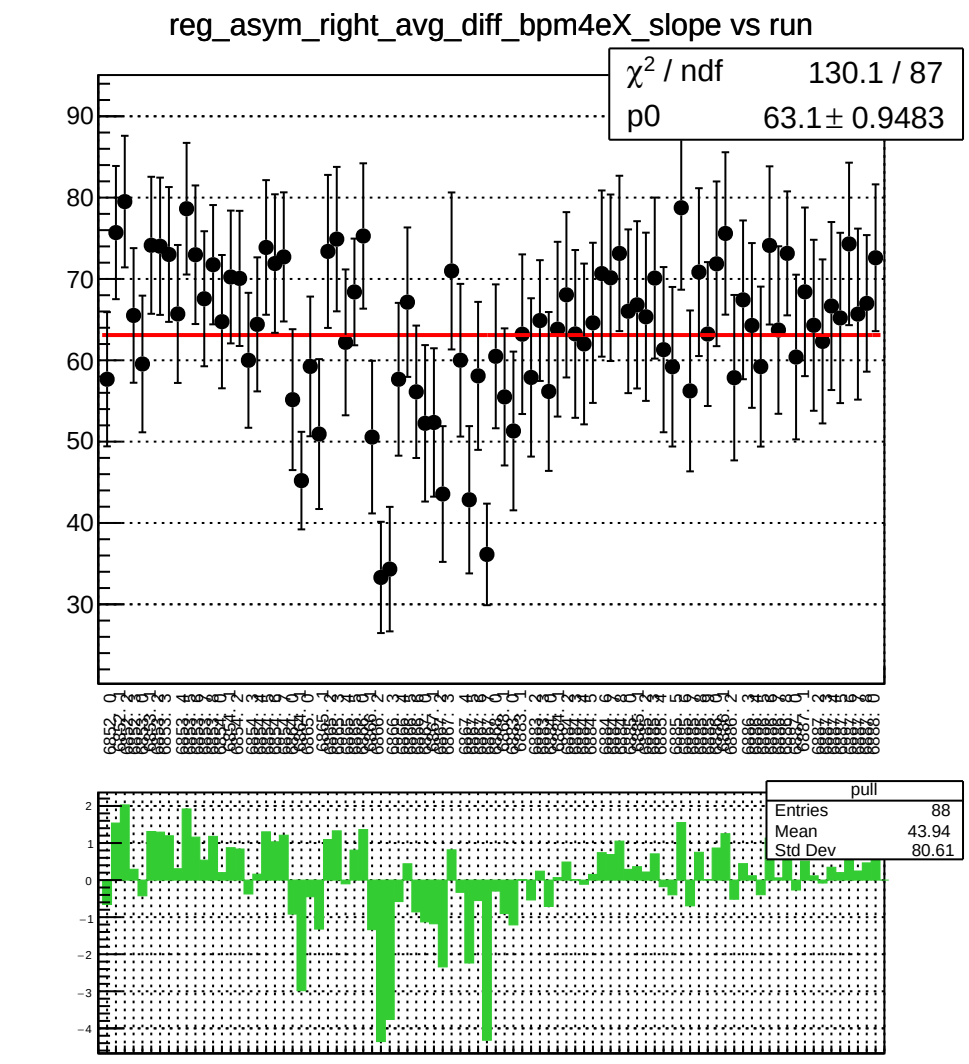

pull1D
Entries 88
Mean 0.03423
Std Dev 0.8889

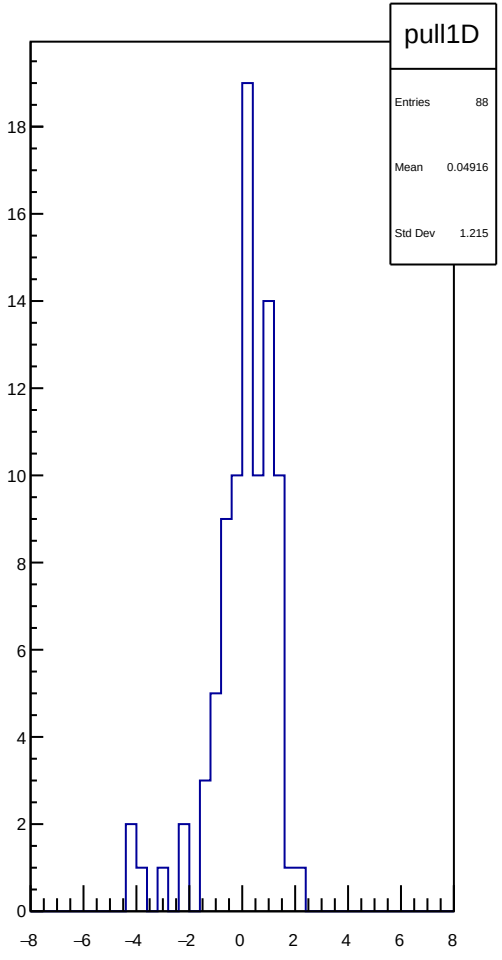

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 129.6 / 87
p0 −19.32 ± 0.03728
−18
−18.5
−19
−19.5
−20
−20.5
pull
Entries 88
Mean −595
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.03133
Std Dev 1.213
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

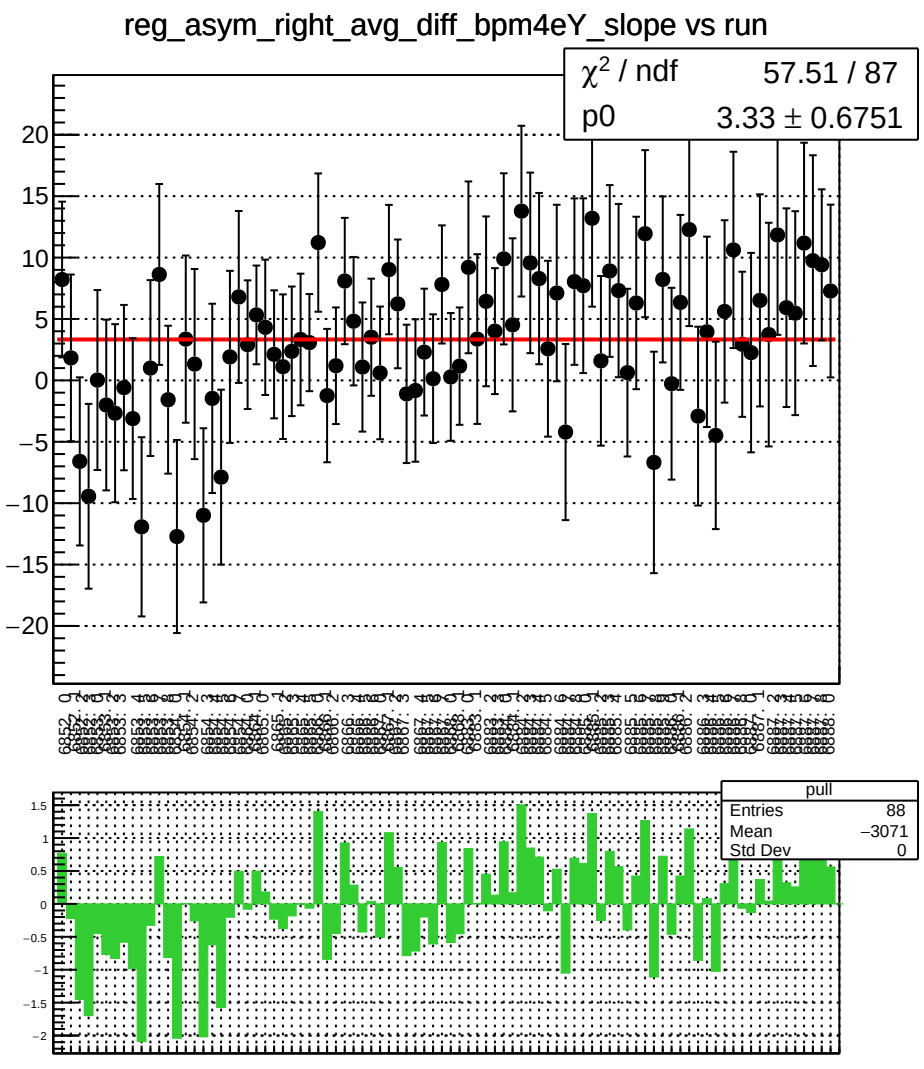

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 124.4 / 87
p0 −34.91 ± 0.9959
pull
Entries 88
Mean 11.06
Std Dev 81.15
pull1D
Entries 88
Mean −0.04021
Std Dev 1.188

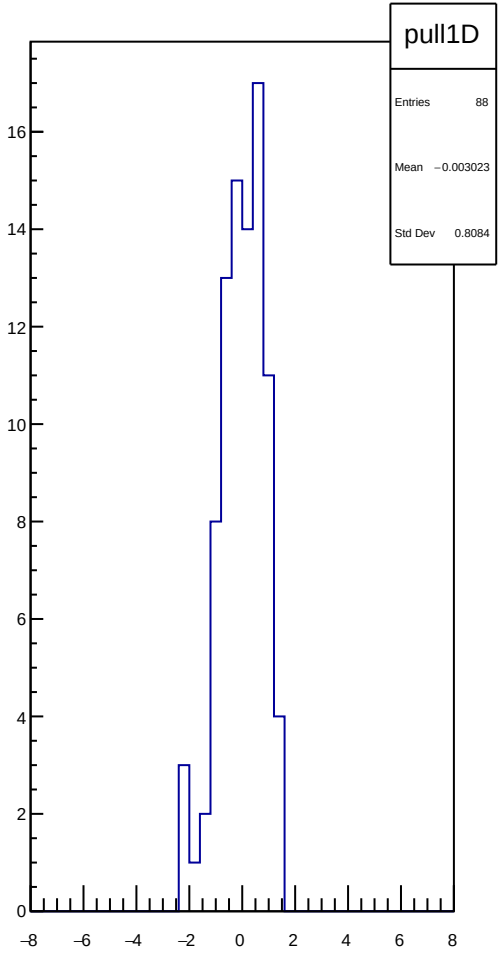

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 54.91 / 87
p0 3.066 ± 0.5203
pull
Entries 88
Mean −663.3
Std Dev 0

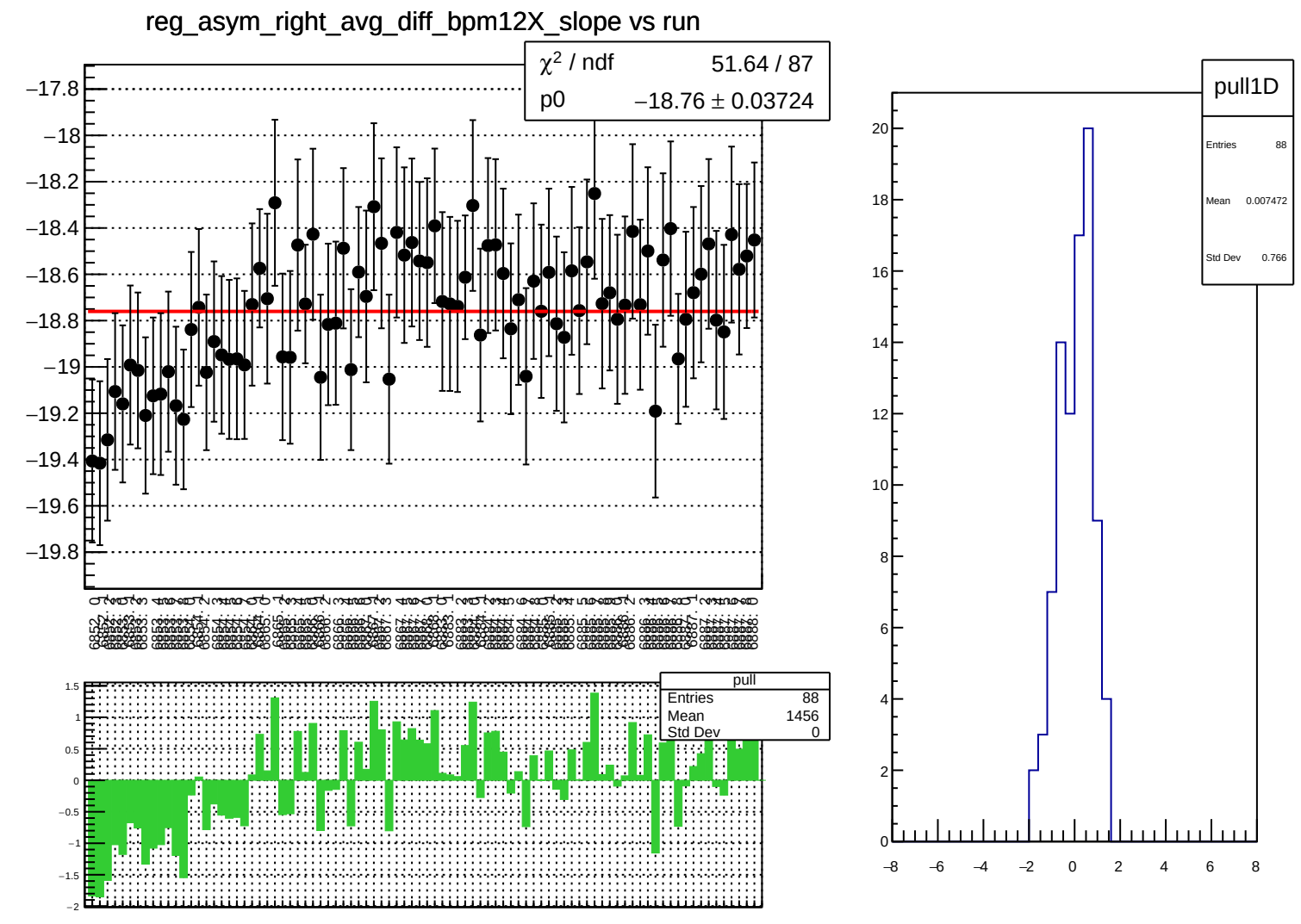

pull1D
Entries 88
Mean 0.01266
Std Dev 0.7898

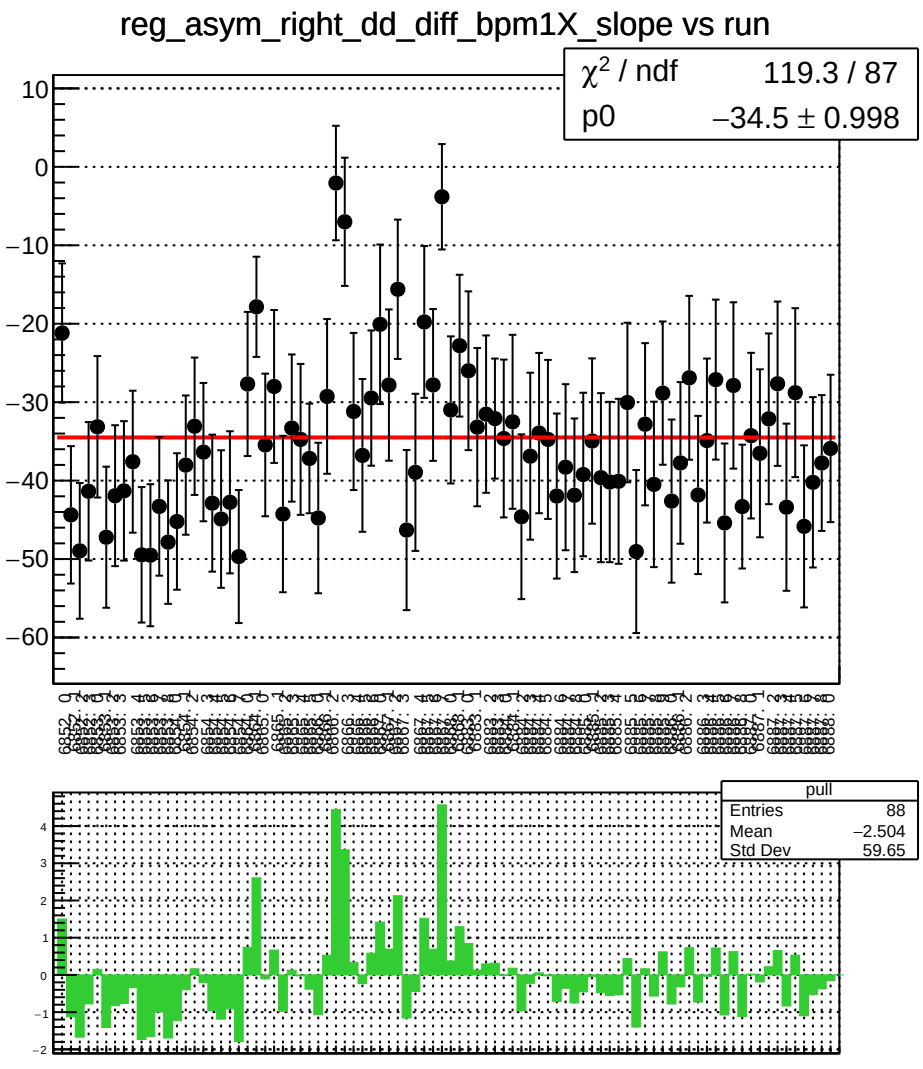

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 130.1 / 87
p0 63.1 ± 0.9483
pull
Entries 88
Mean 43.94
Std Dev 80.61

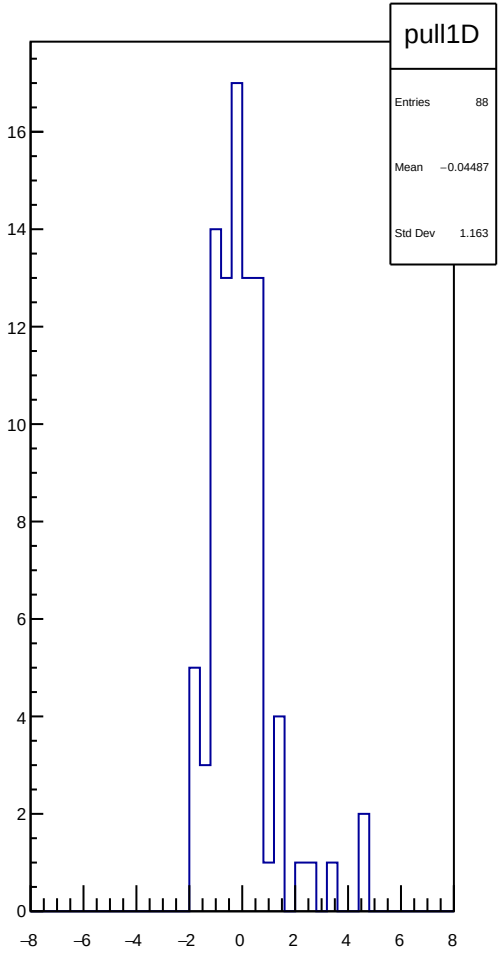

pull1D
Entries 88
Mean 0.04916
Std Dev 1.215

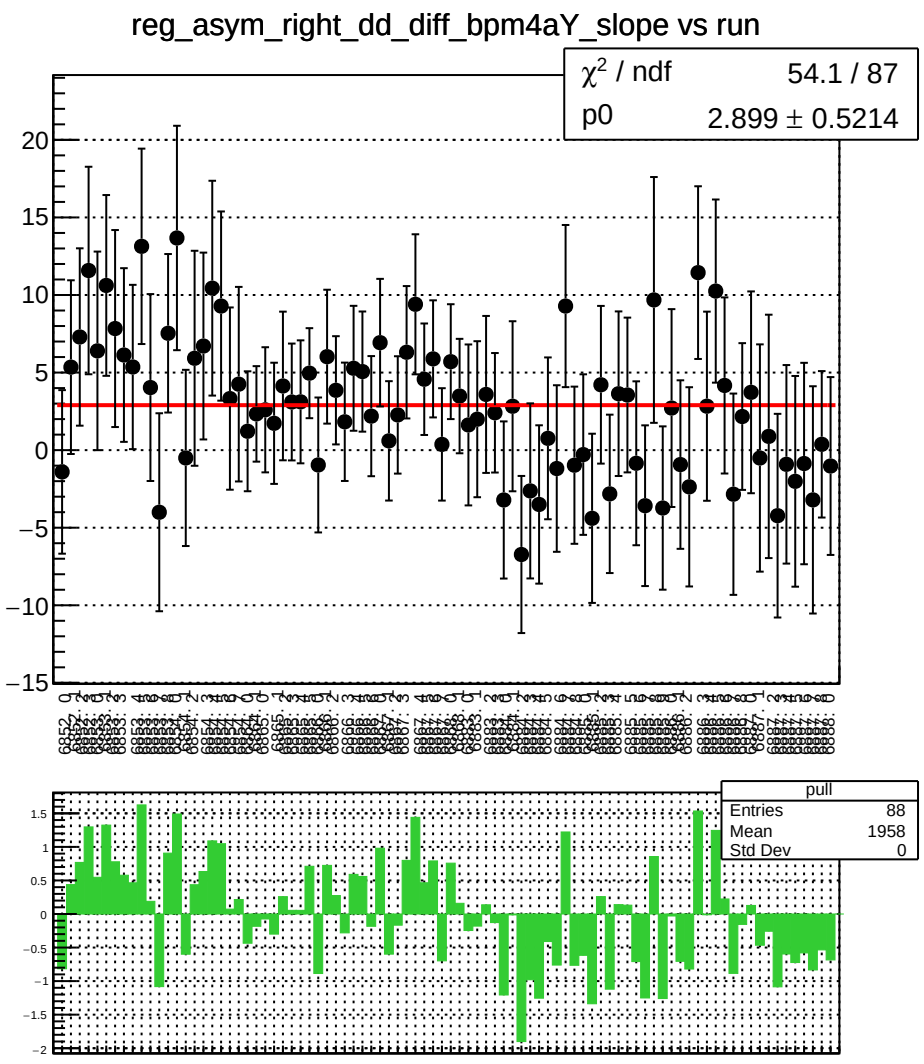

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 57.51 / 87
p0 3.33 ± 0.6751
pull
Entries 88
Mean −3071
Std Dev 0

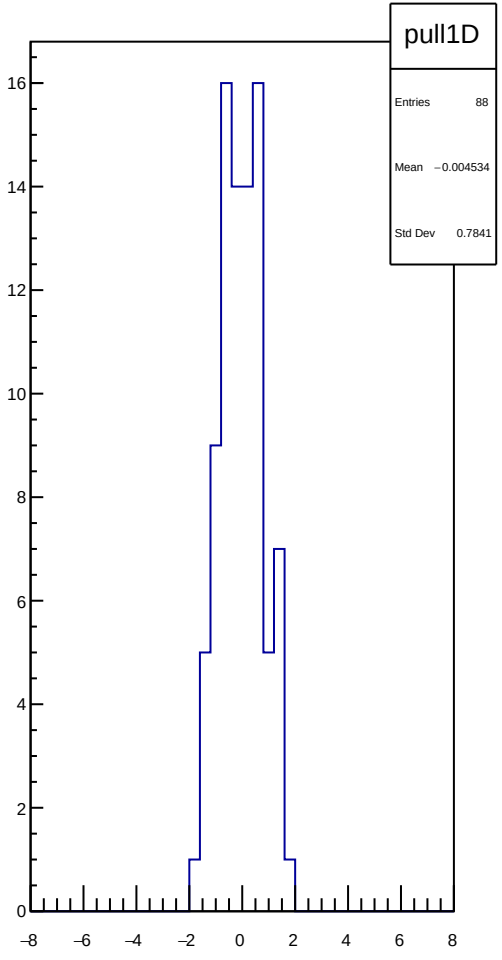

pull1D
Entries 88
Mean −0.003023
Std Dev 0.8084

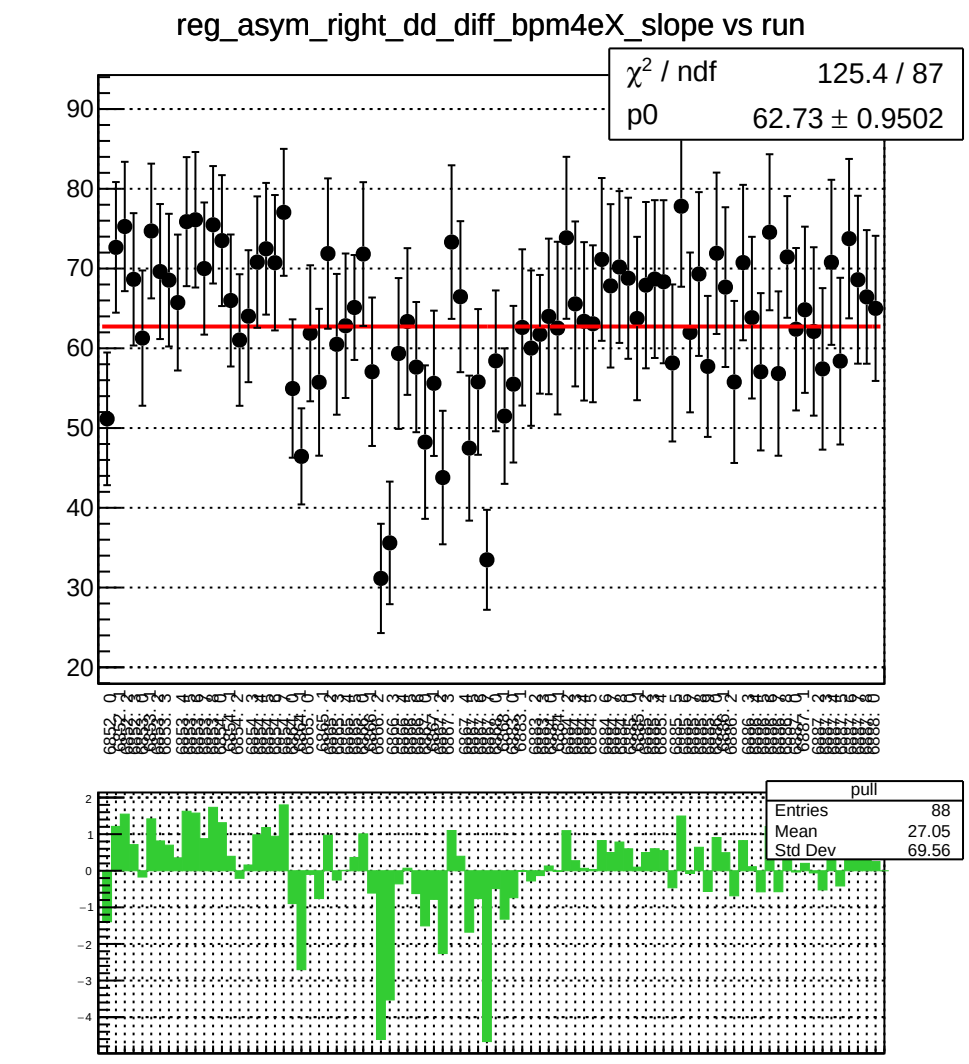

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 51.64 / 87
p0 −18.76 ± 0.03724
pull
Entries 88
Mean 1456
Std Dev 0
pull1D
Entries 88
Mean 0.007472
Std Dev 0.766

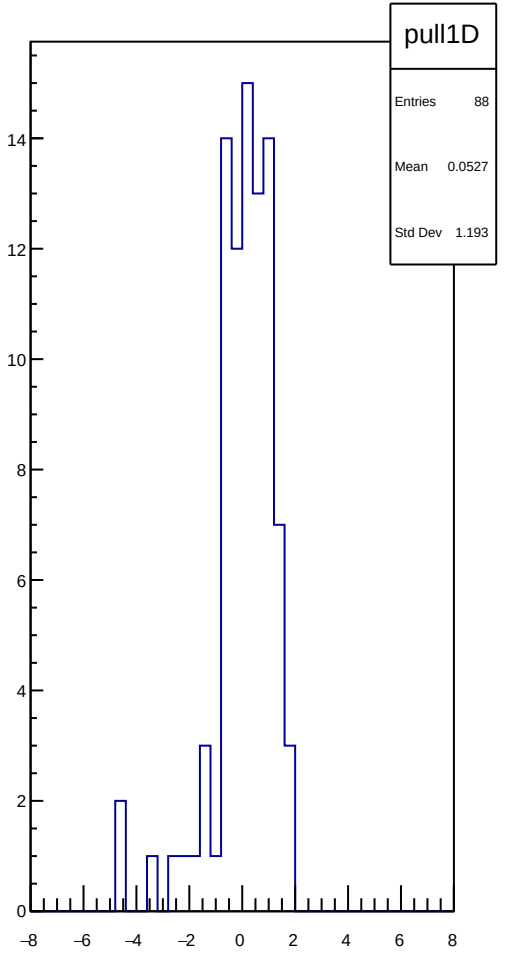

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 119.3 / 87
p0 −34.5 ± 0.998
pull
Entries 88
Mean −2.504
Std Dev 59.65

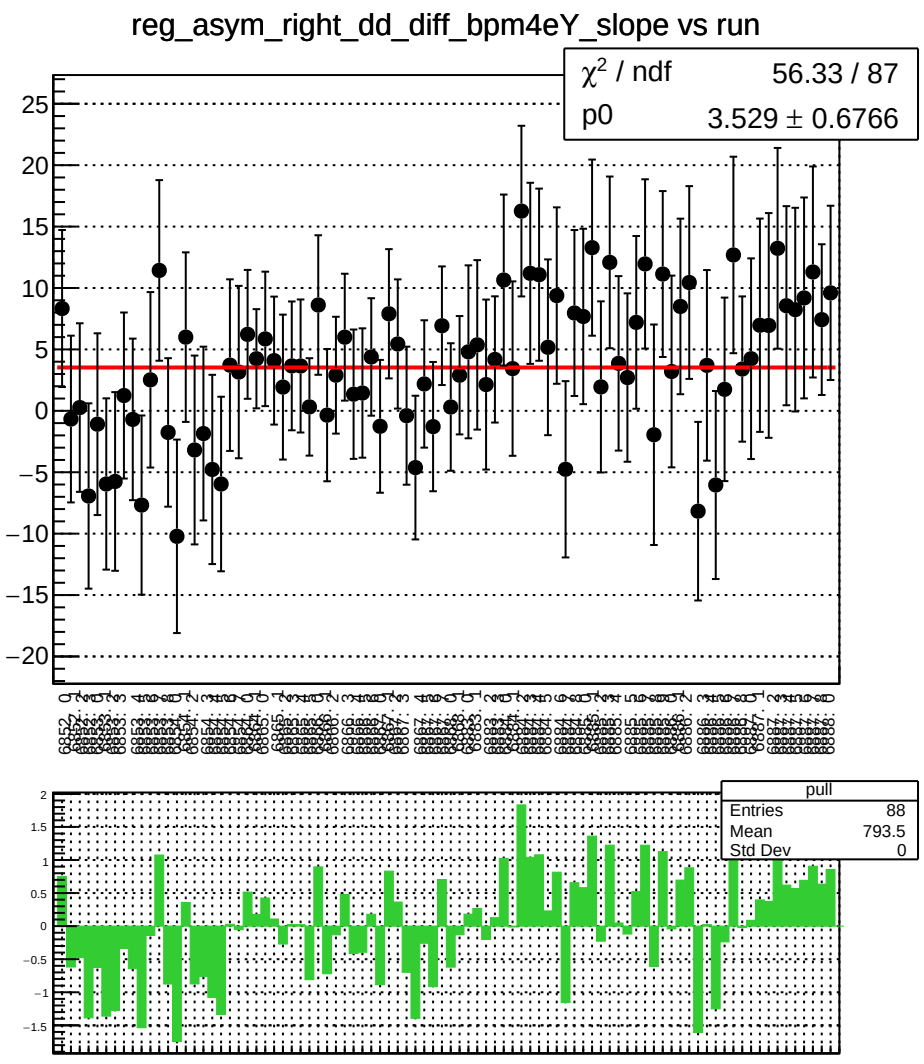

pull1D
Entries 88
Mean −0.04487
Std Dev 1.163

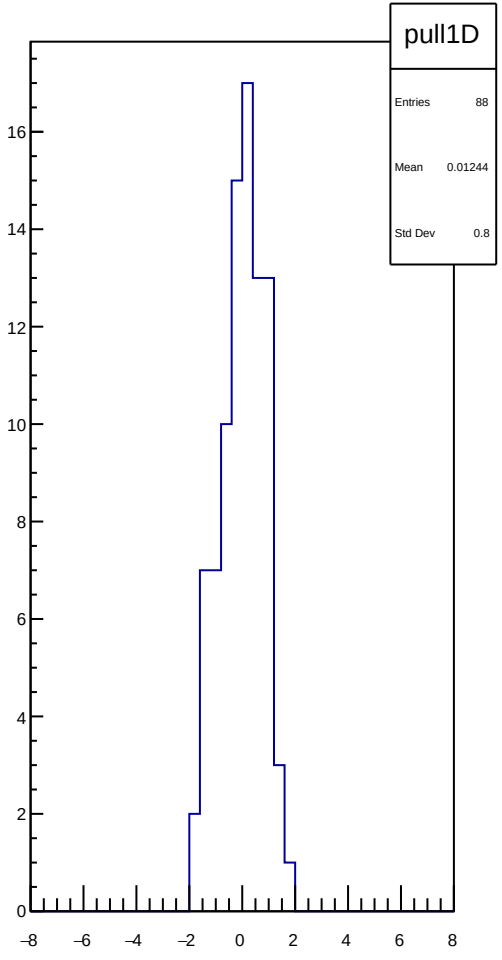

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.1 / 87
p0 2.899 ± 0.5214
pull
Entries 88
Mean 1958
Std Dev 0

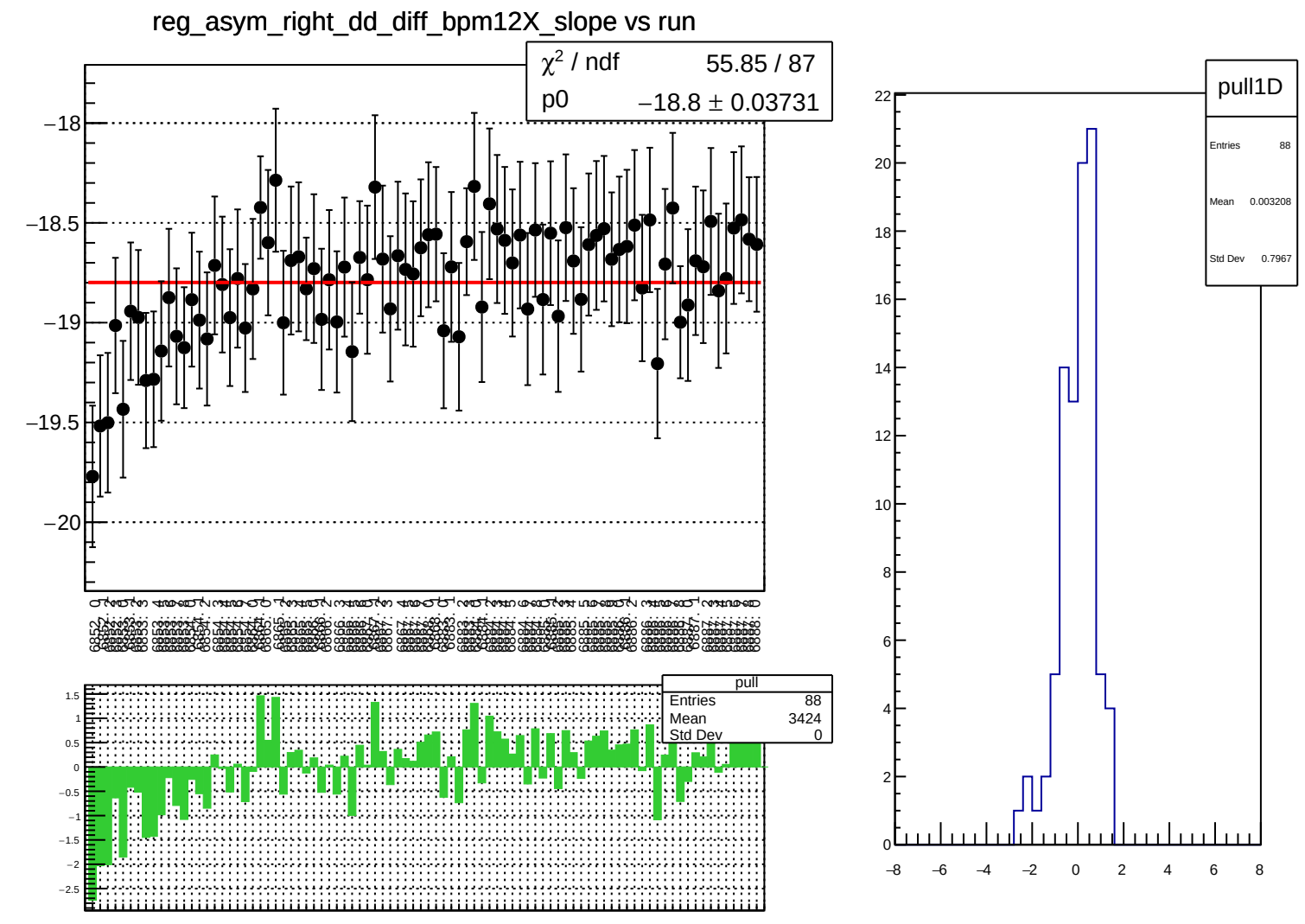

pull1D
Entries 88
Mean −0.004534
Std Dev 0.7841

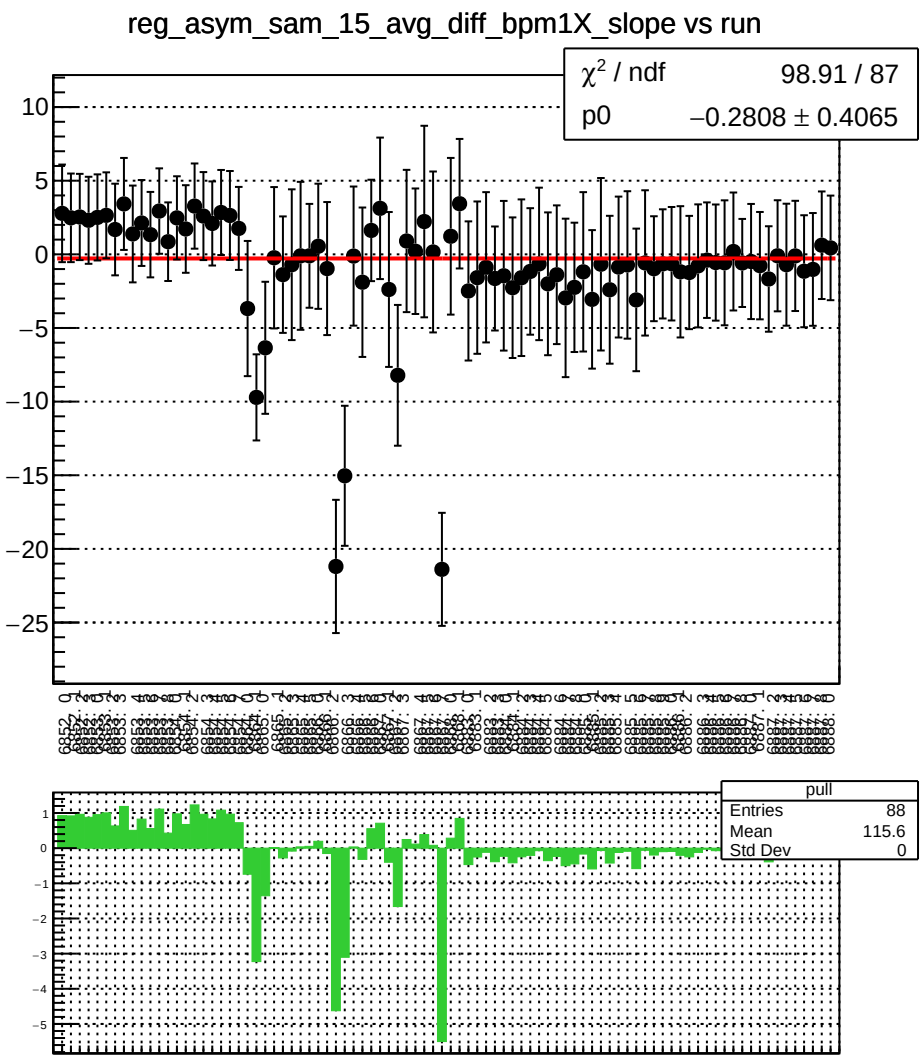

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 125.4 / 87
p0 62.73 ± 0.9502
pull
Entries 88
Mean 27.05
Std Dev 69.56

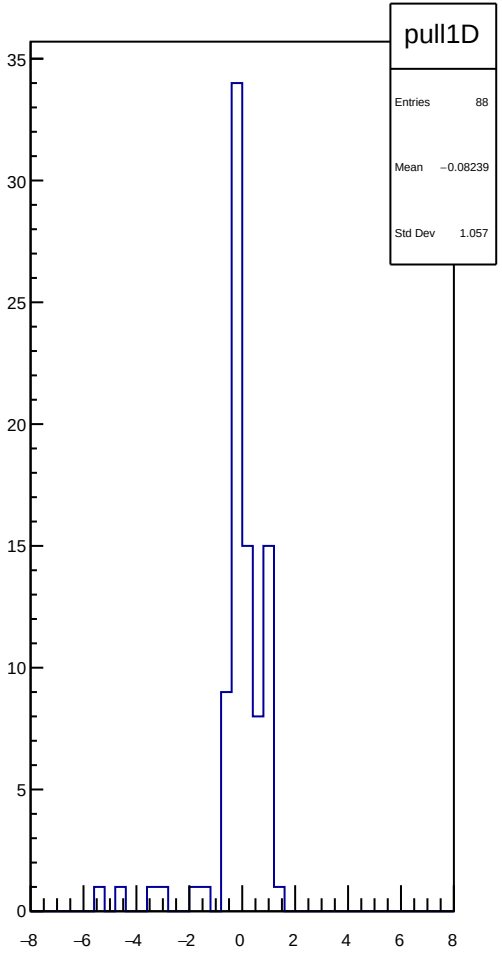

pull1D
Entries 88
Mean 0.0527
Std Dev 1.193

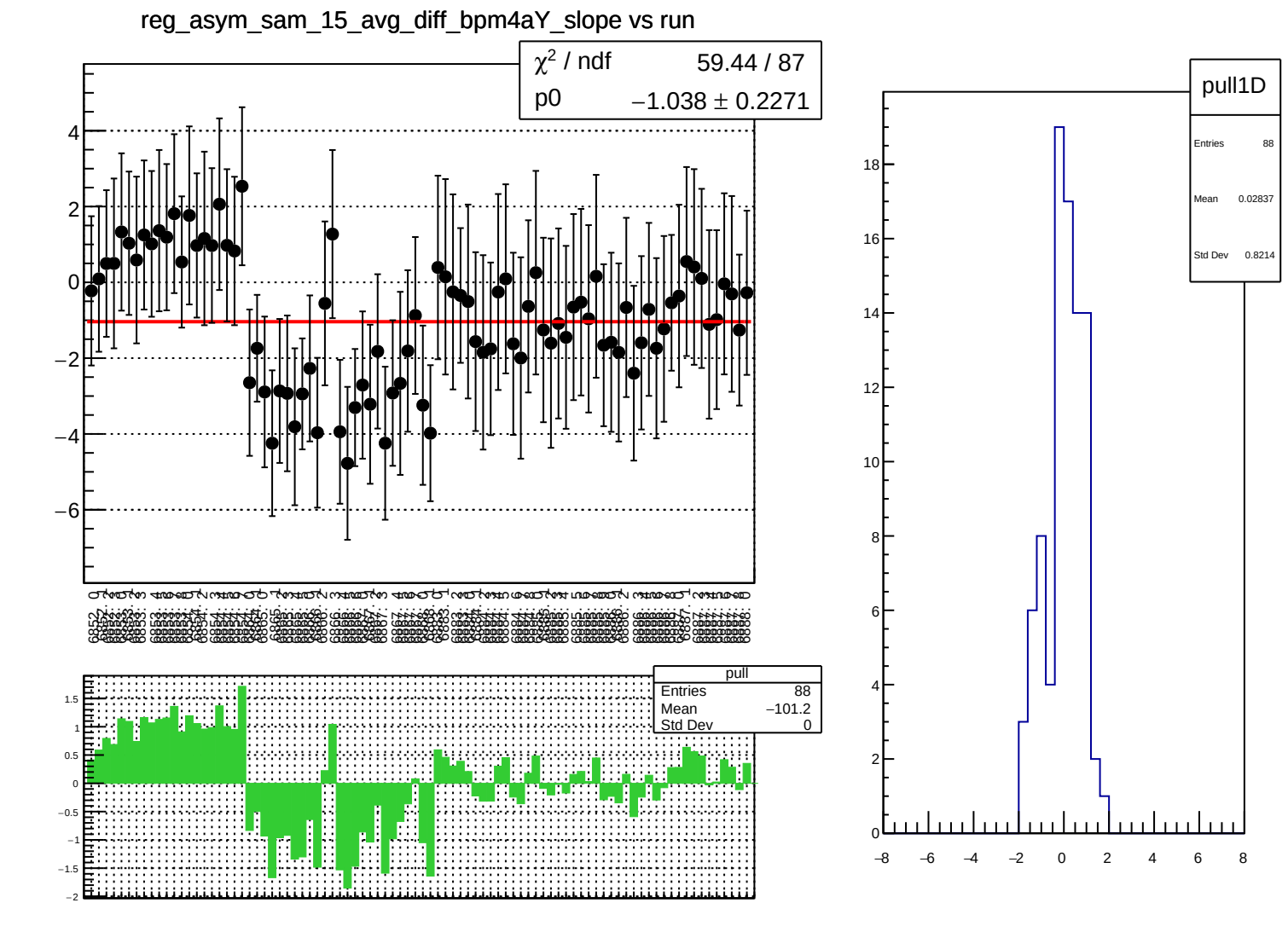

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 56.33 / 87
p0 3.529 ± 0.6766
pull
Entries 88
Mean 793.5
Std Dev 0

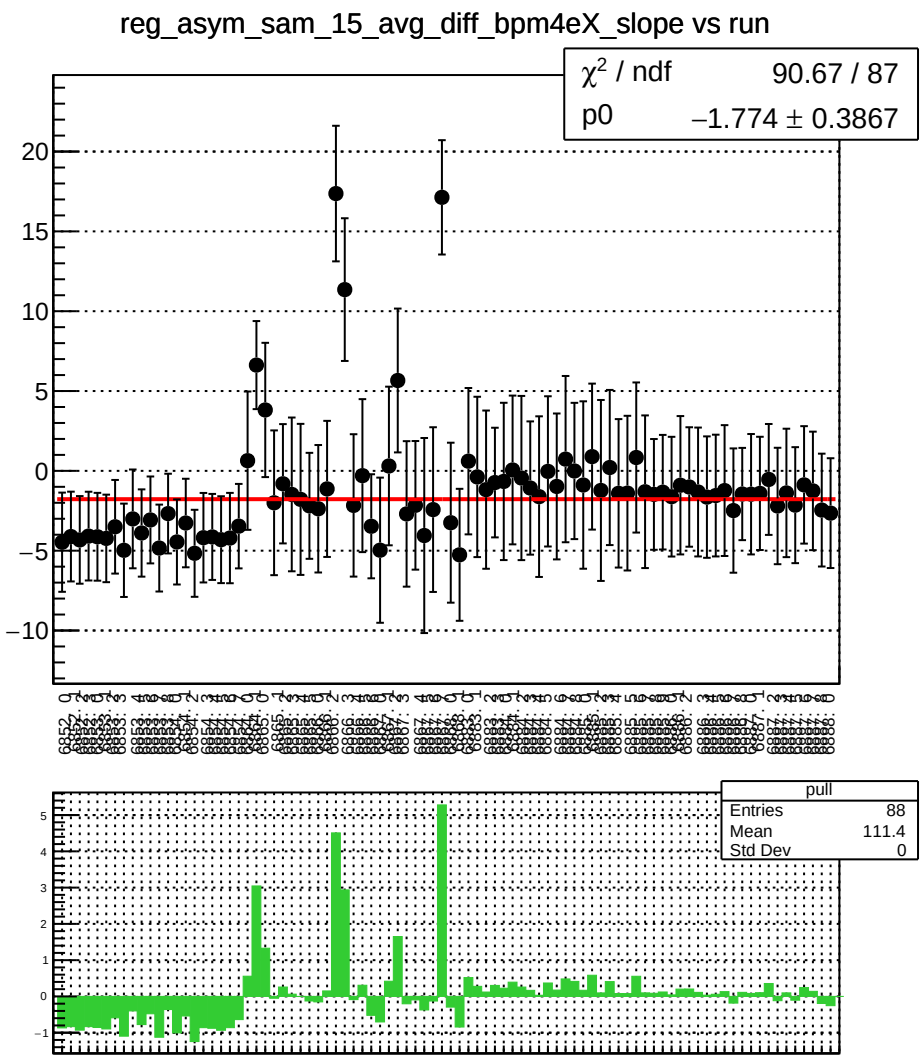

pull1D
Entries 88
Mean 0.01244
Std Dev 0.8

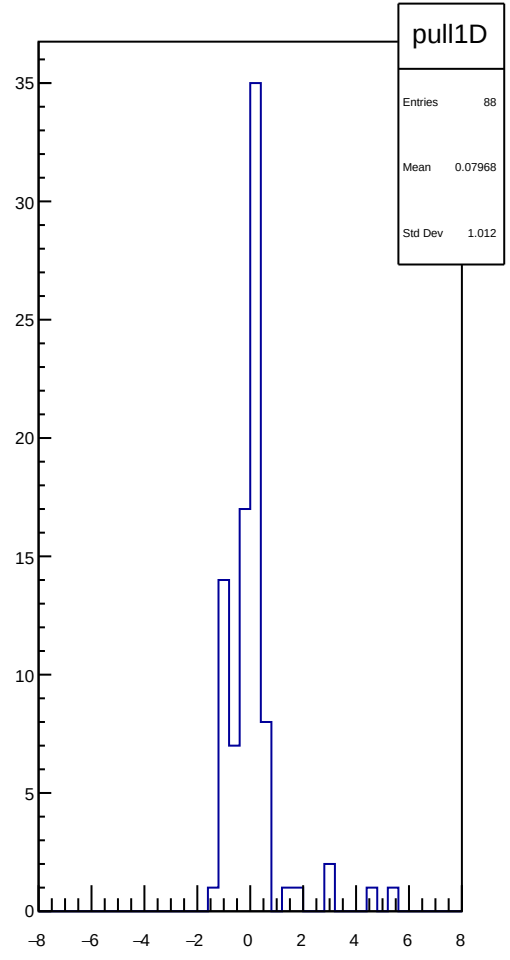

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 55.85 / 87
p0 −18.8 ± 0.03731
−18
−18.5
−19
−19.5
−20
pull
Entries 88
Mean 3424
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 88
Mean 0.003208
Std Dev 0.7967
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

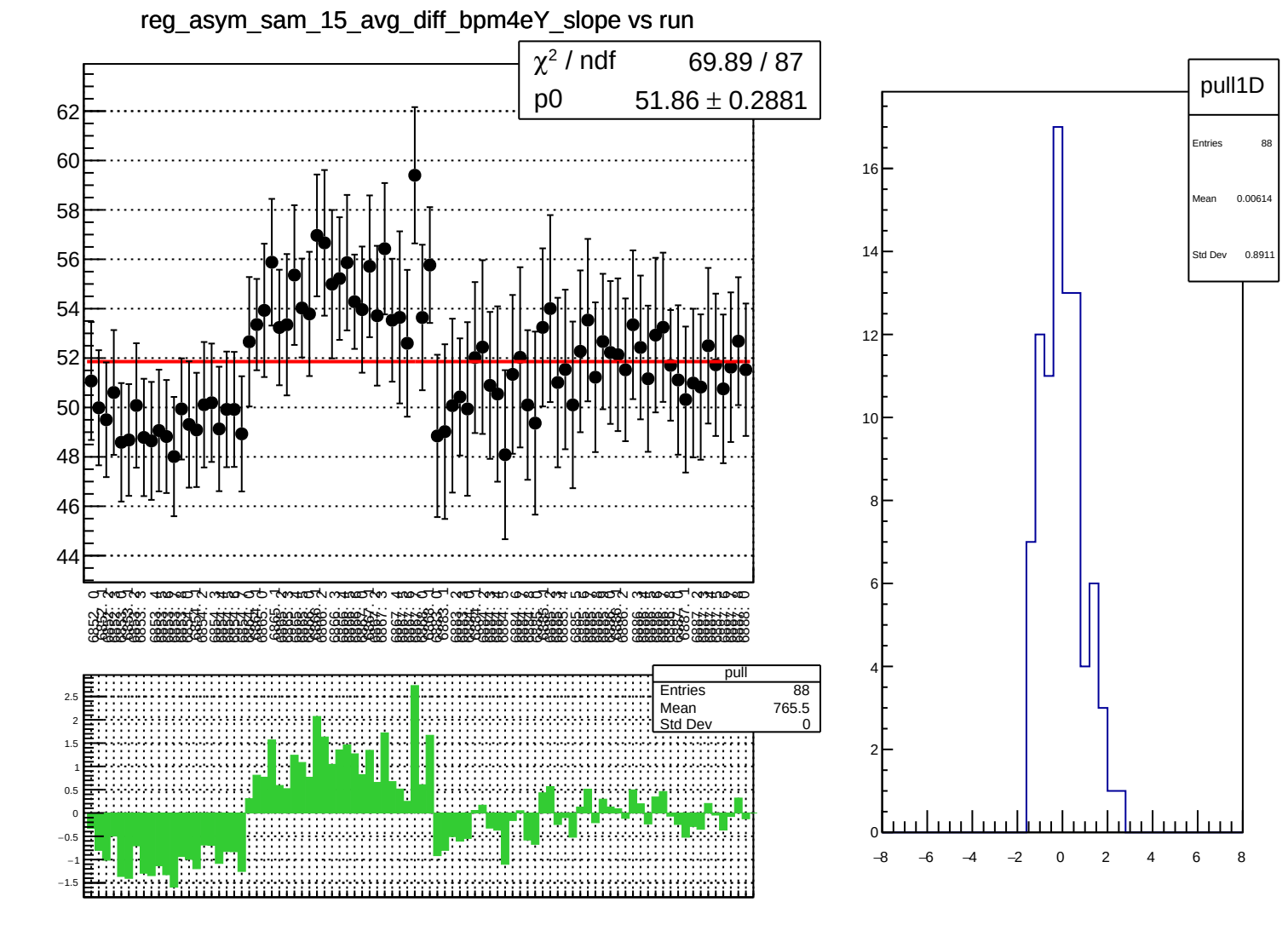

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 98.91 / 87
p0 −0.2808 ± 0.4065
pull
Entries 88
Mean 115.6
Std Dev 0

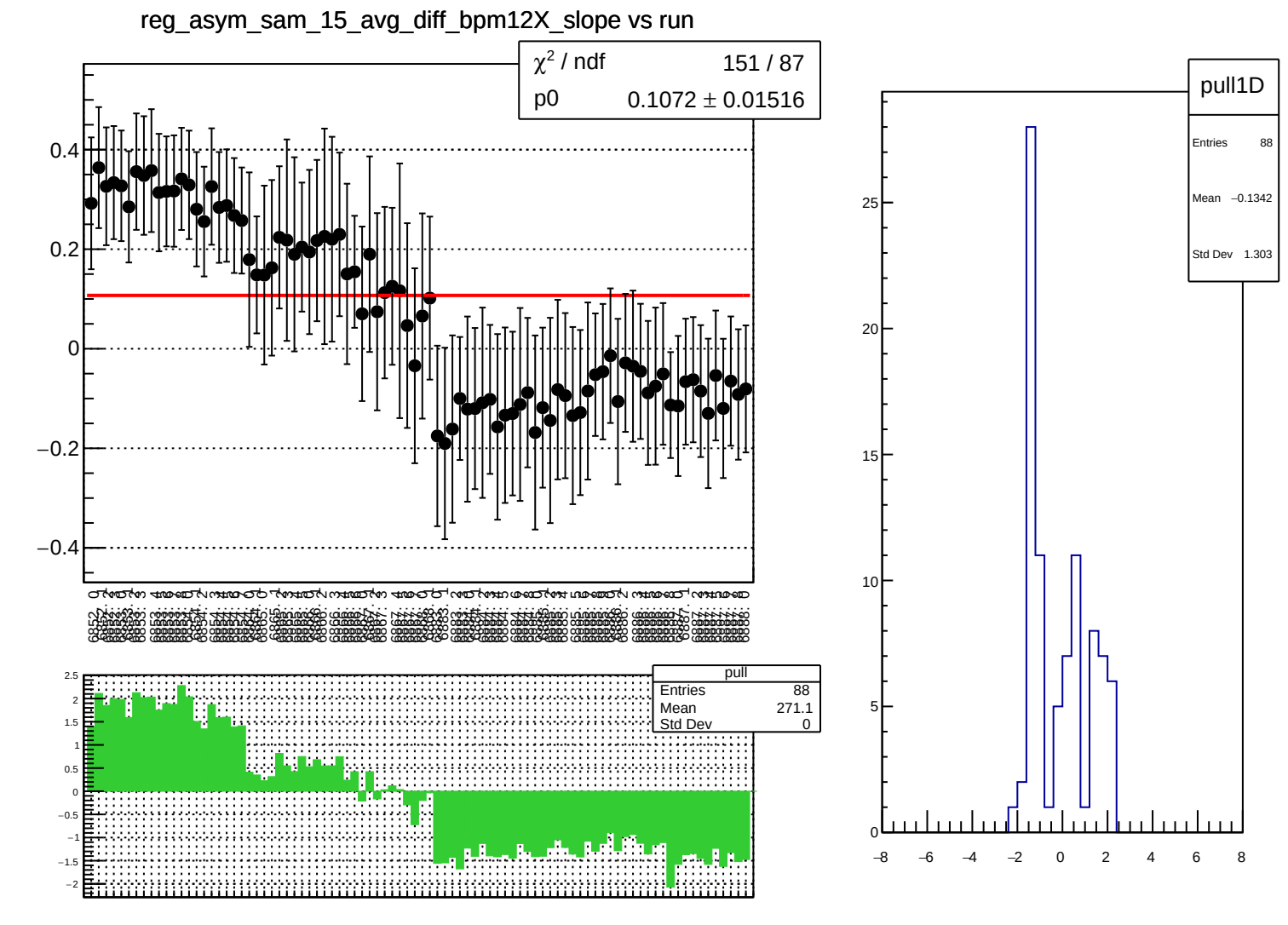

pull1D
Entries 88
Mean −0.08239
Std Dev 1.057

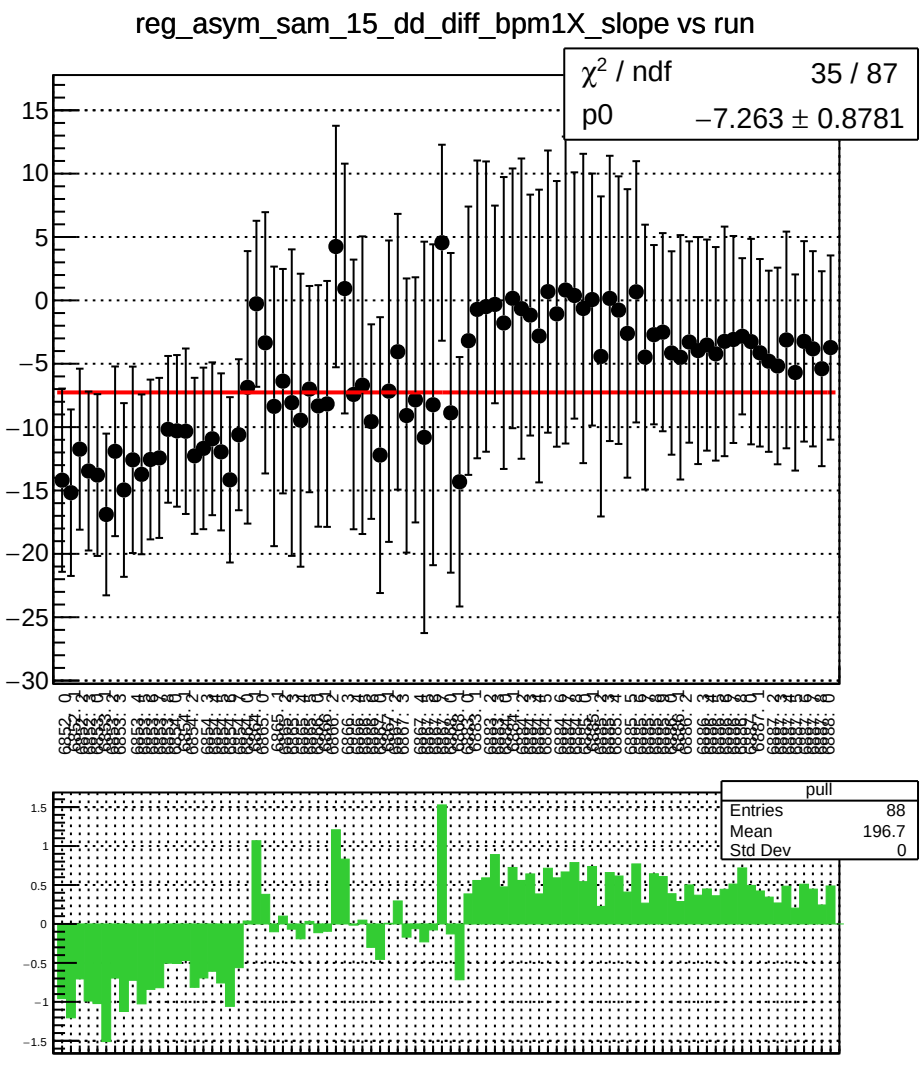

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 59.44 / 87
p0 −1.038 ± 0.2271
pull
Entries 88
Mean −101.2
Std Dev 0
pull1D
Entries 88
Mean 0.02837
Std Dev 0.8214

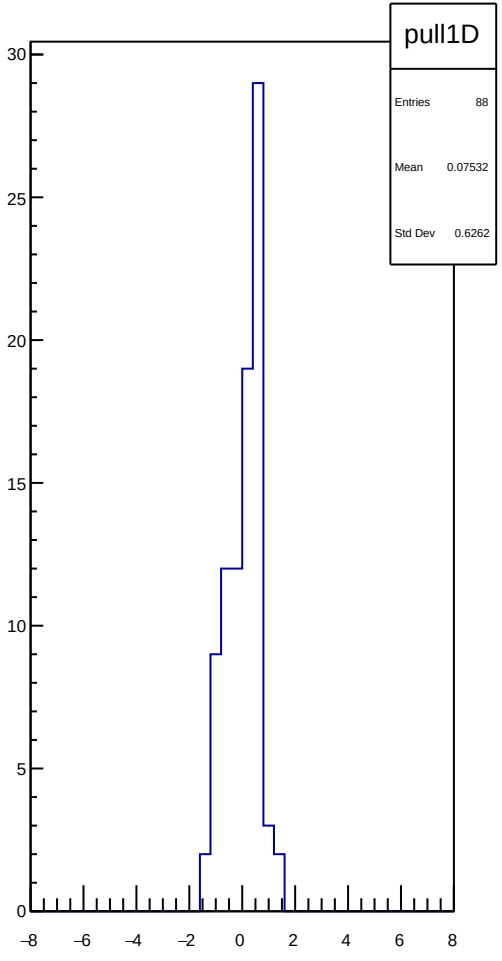

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 90.67 / 87
p0 −1.774 ± 0.3867
pull
Entries 88
Mean 111.4
Std Dev 0

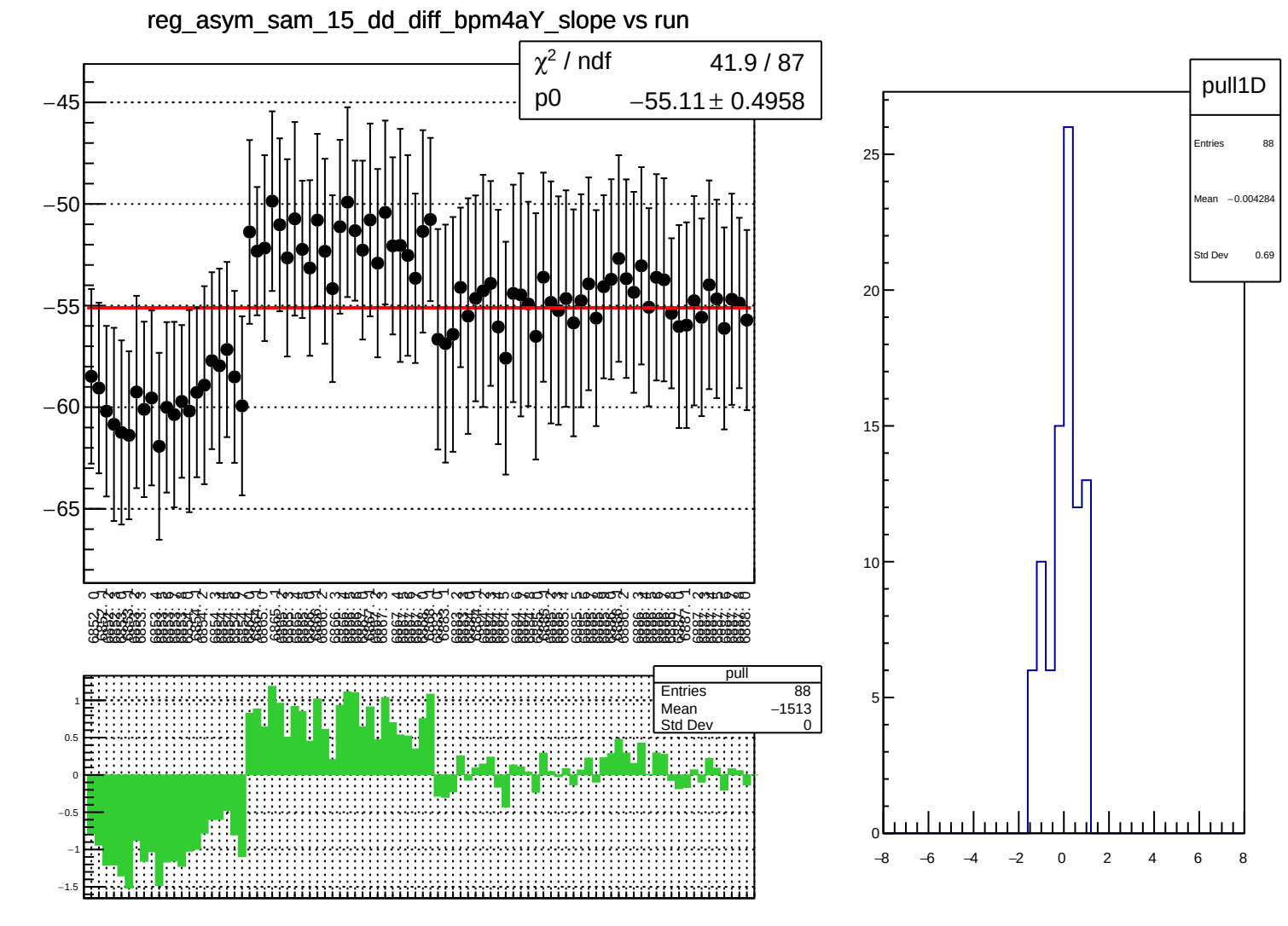

pull1D
Entries 88
Mean 0.07968
Std Dev 1.012

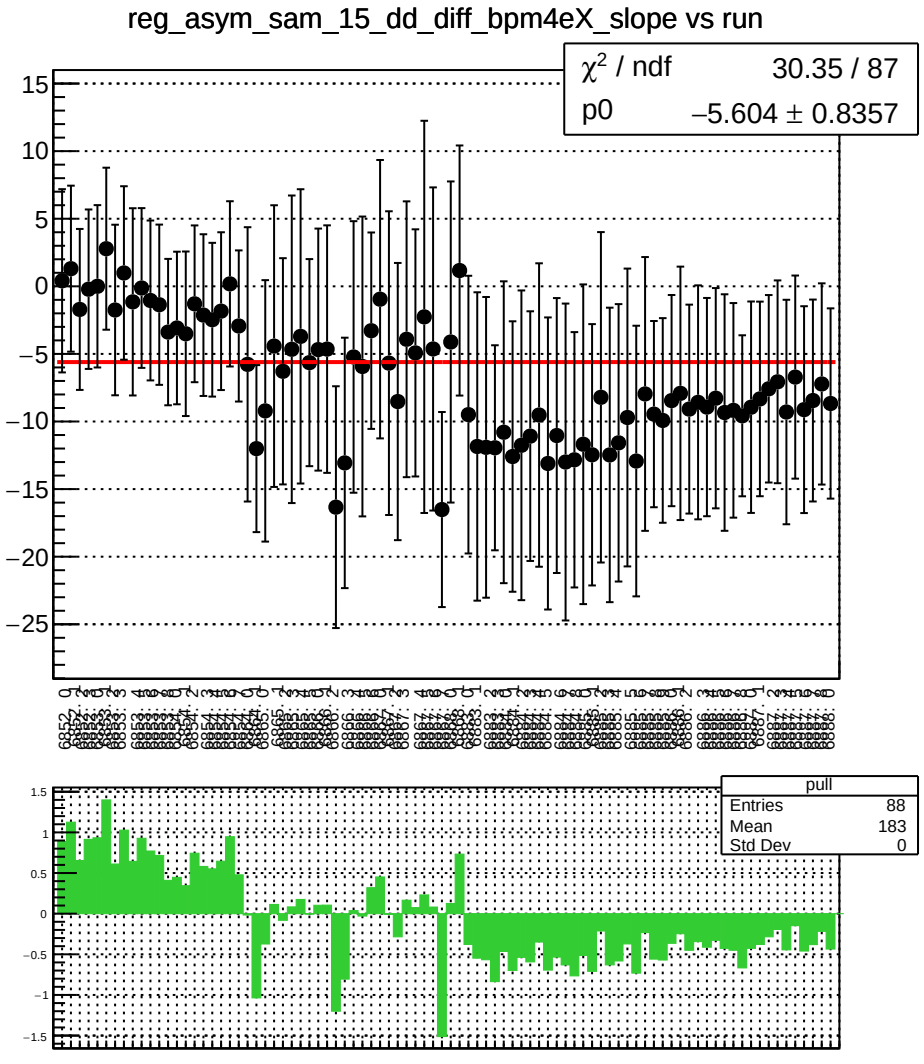

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.89 / 87
p0 51.86 ± 0.2881
pull
Entries 88
Mean 765.5
Std Dev 0
pull1D
Entries 88
Mean 0.00614
Std Dev 0.8911

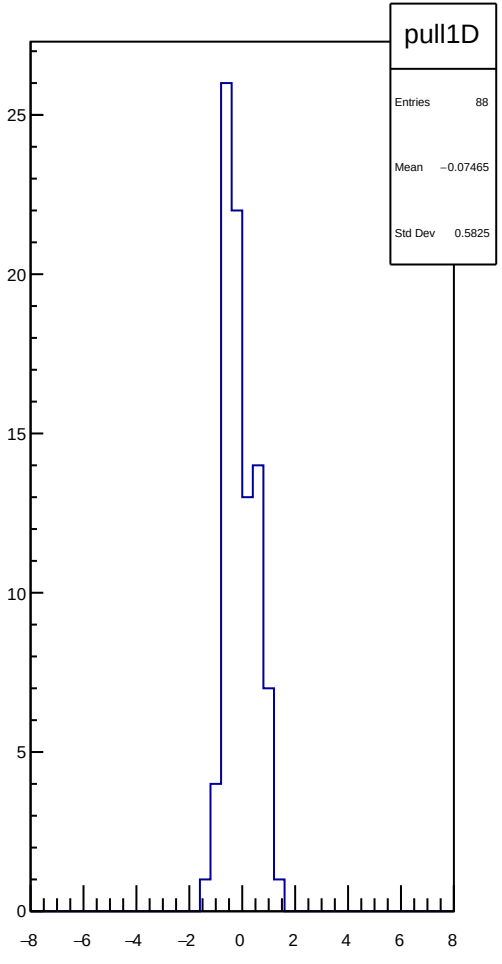

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 151 / 87
p0 0.1072 ± 0.01516
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean 271.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.1342
Std Dev 1.303
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

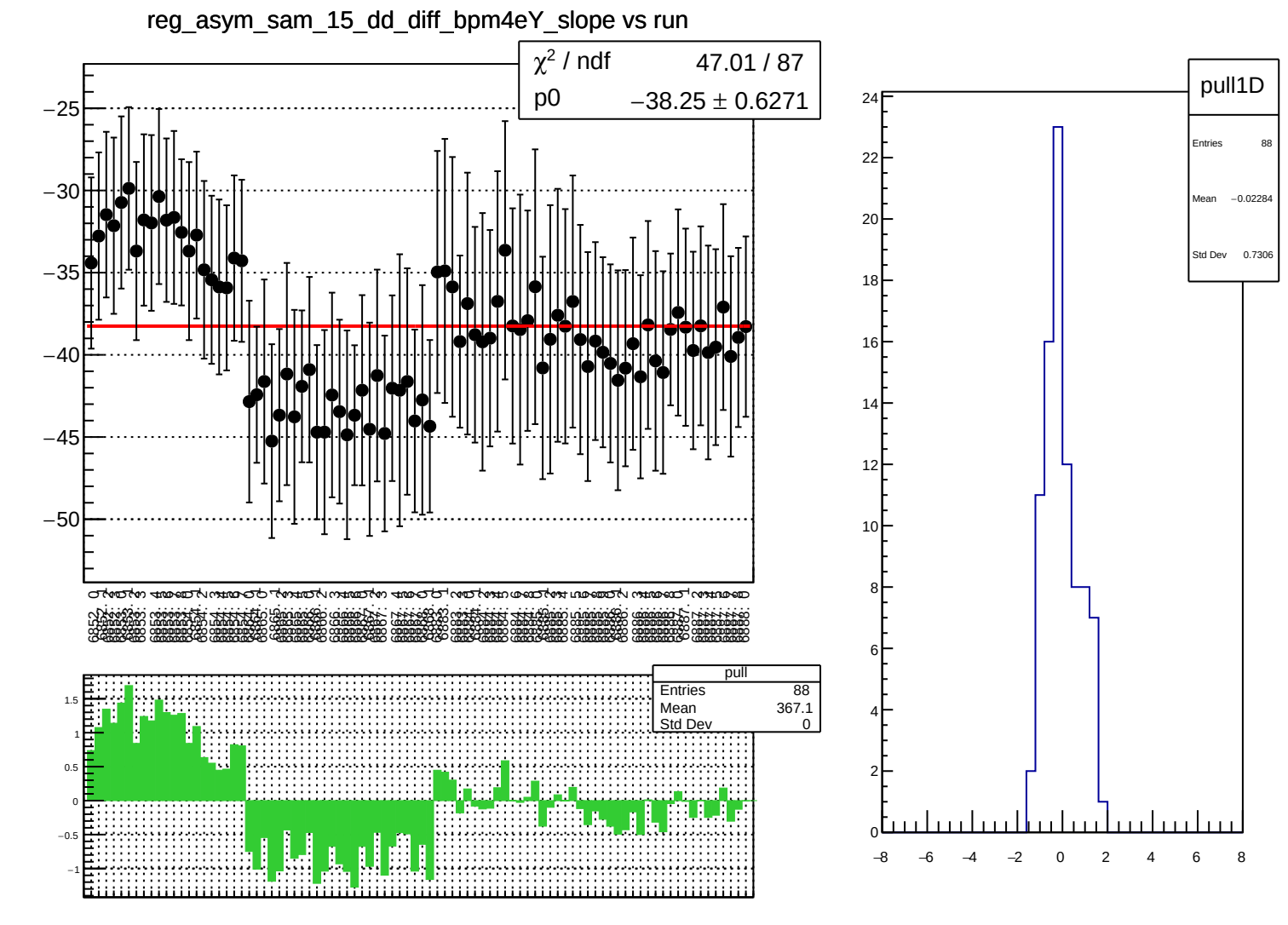

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 35 / 87
p0 −7.263 ± 0.8781
pull
Entries 88
Mean 196.7
Std Dev 0

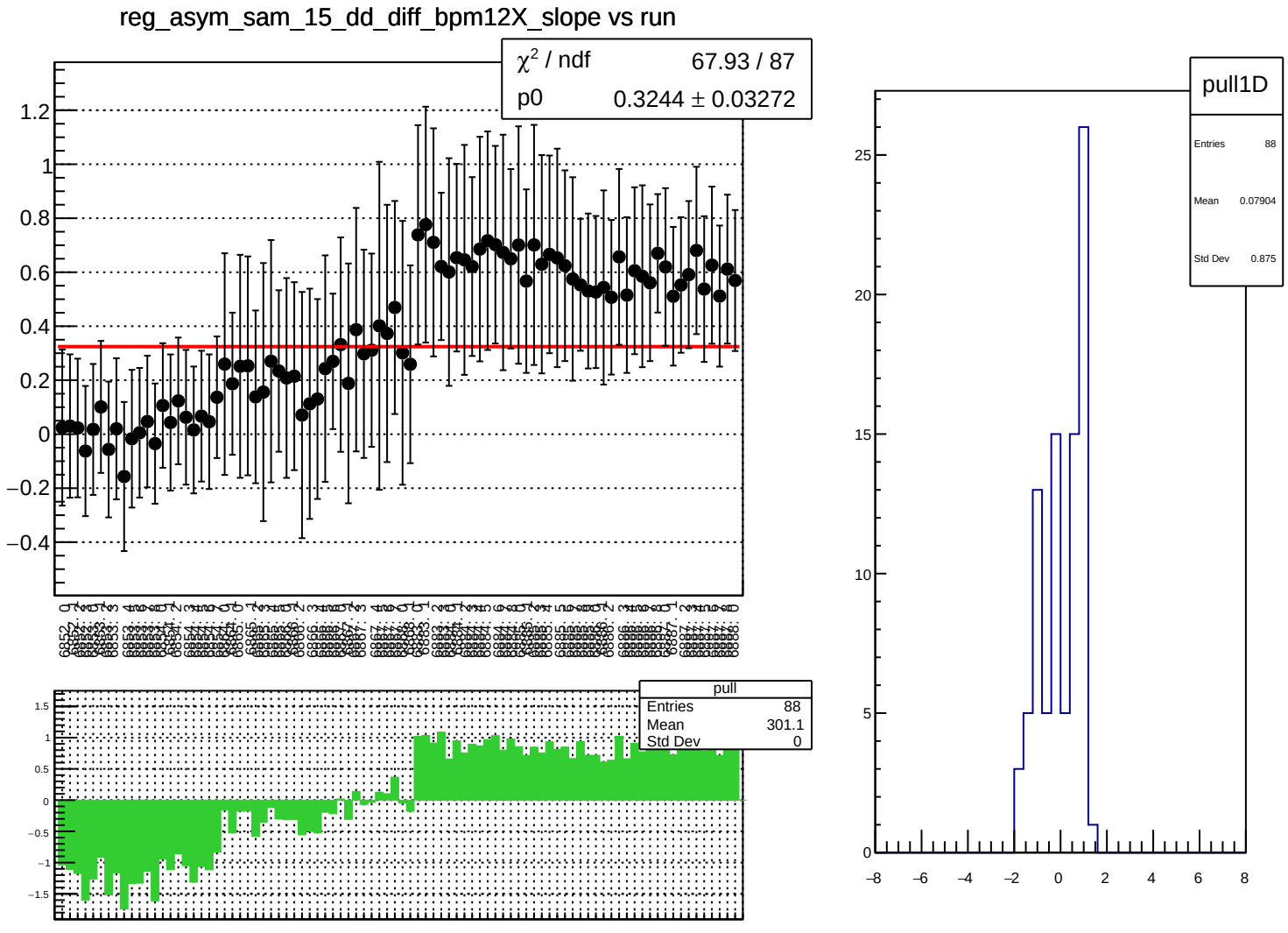

pull1D
Entries 88
Mean 0.07532
Std Dev 0.6262

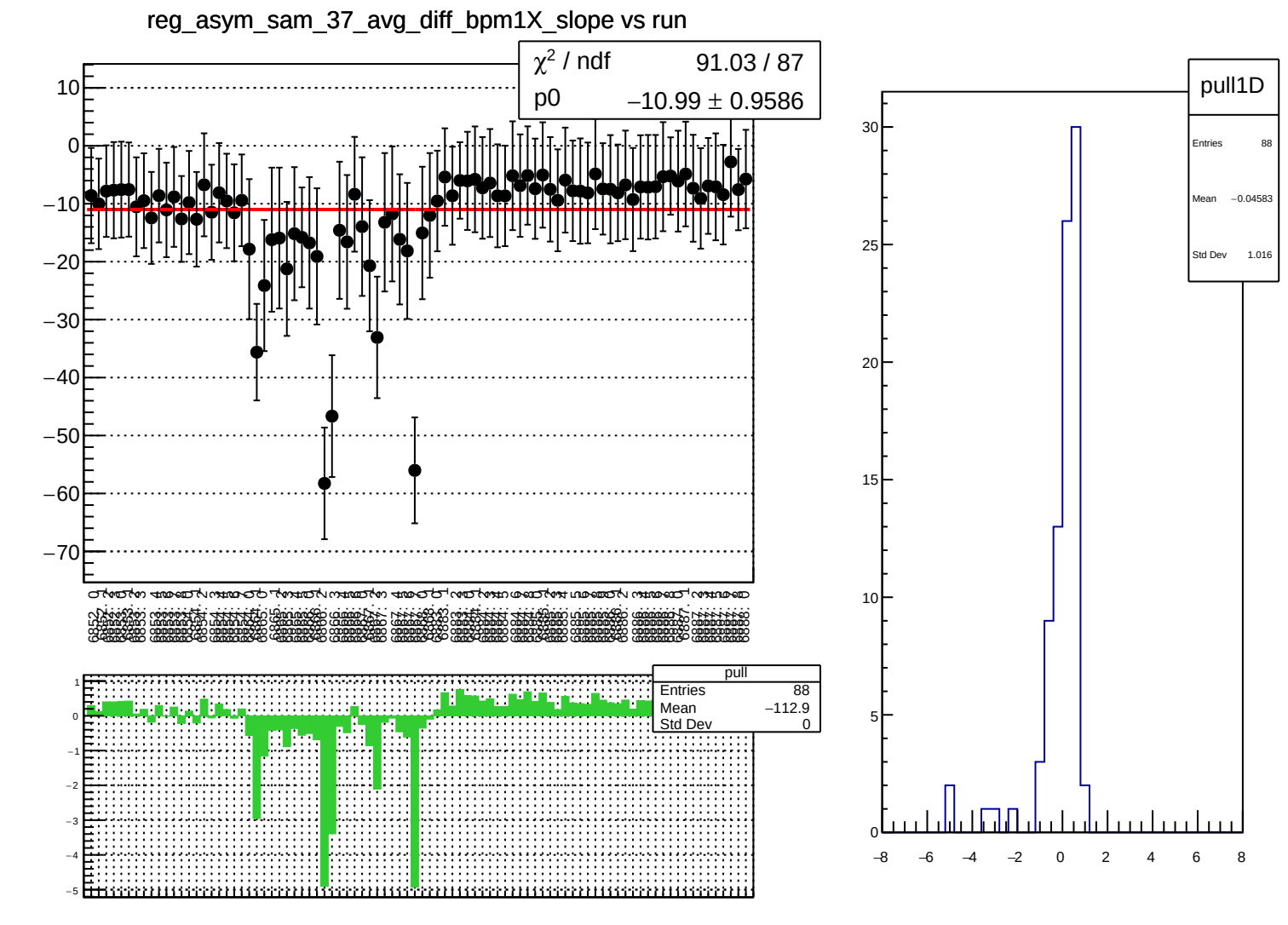

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.9 / 87
p0 −55.11 ± 0.4958
−45
−50
−55
−60
−65
pull
Entries 88
Mean −1513
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.004284
Std Dev 0.69
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

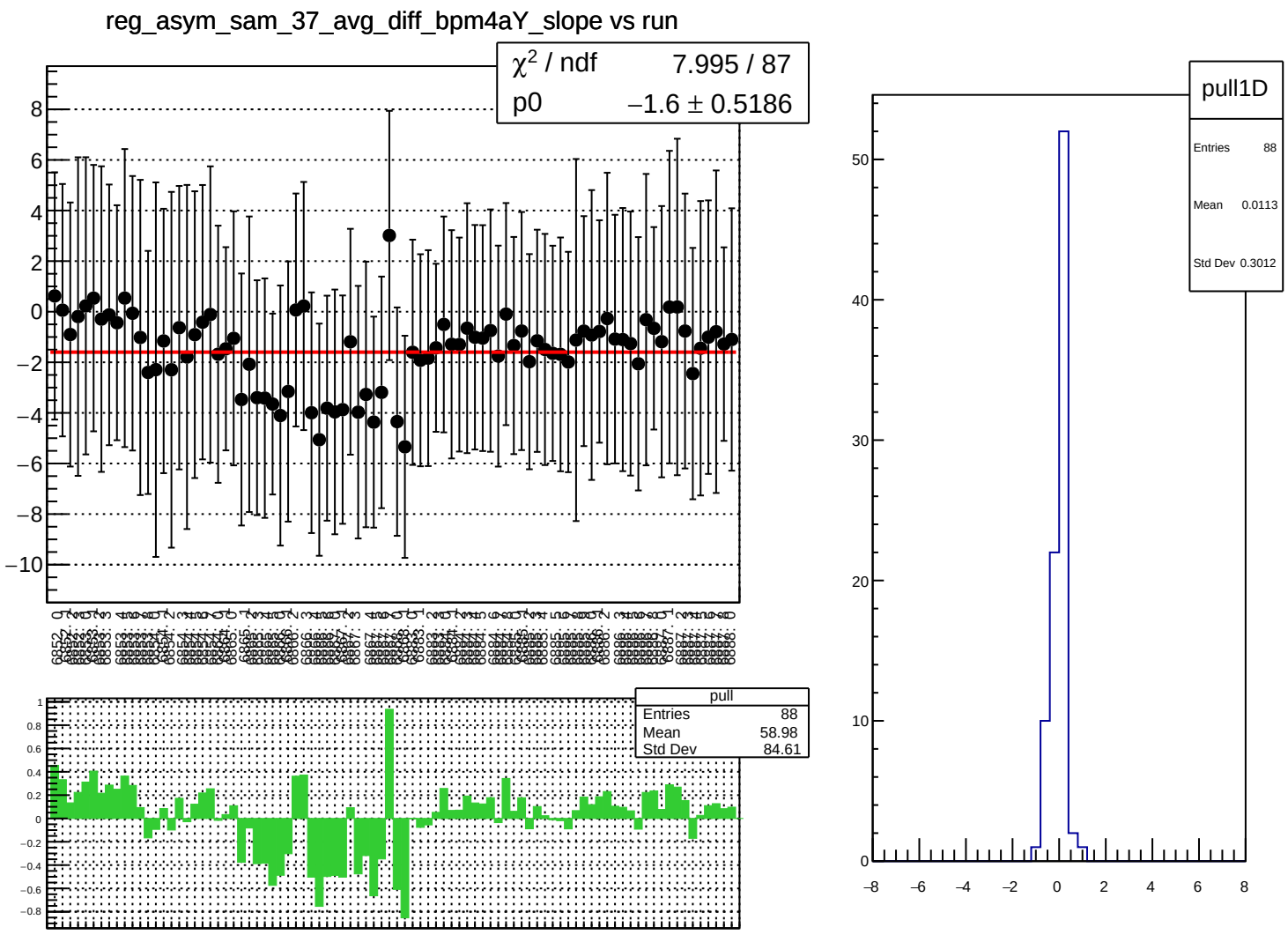

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.35 / 87
p0 −5.604 ± 0.8357
pull
Entries 88
Mean 183
Std Dev 0

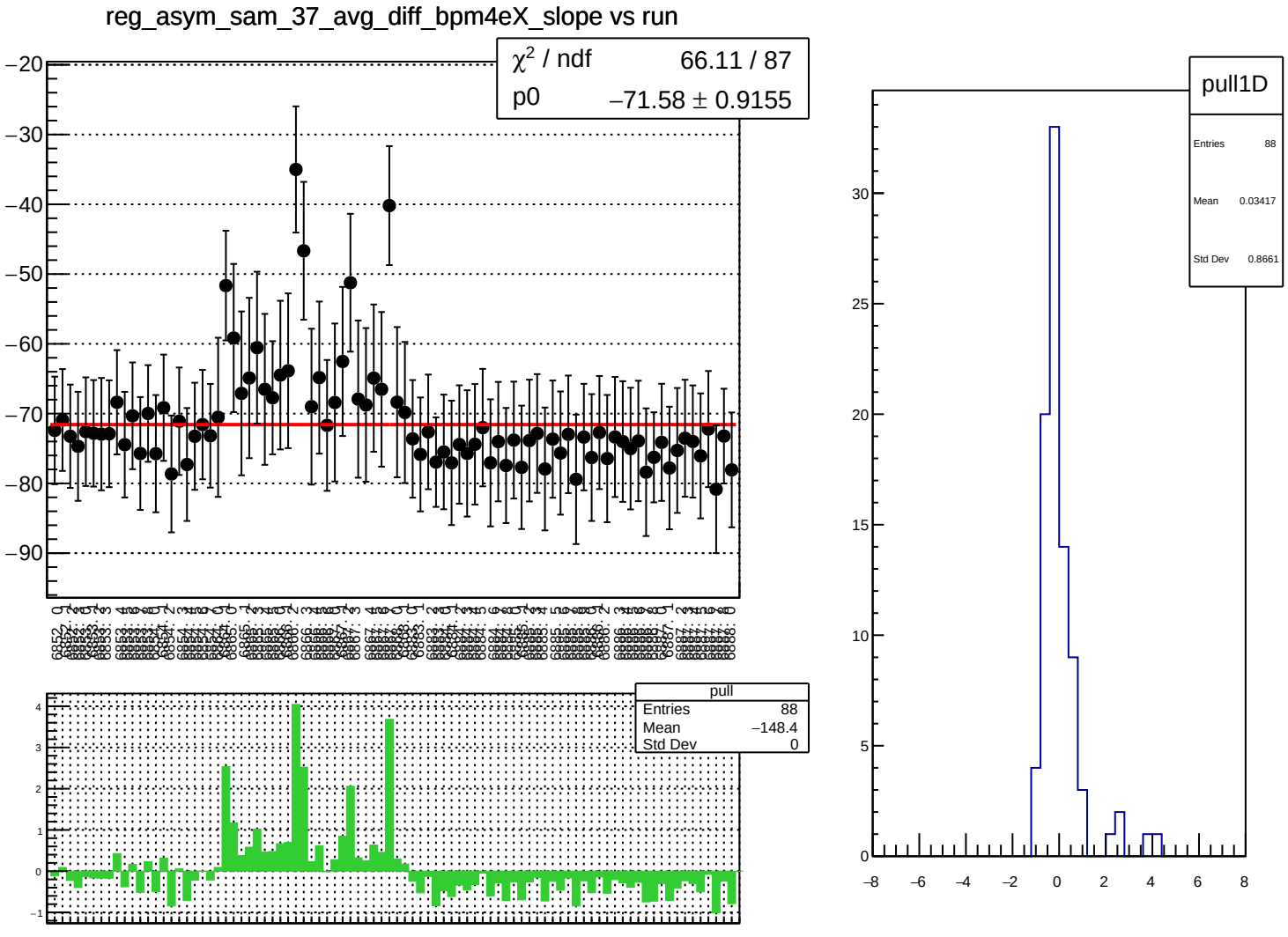

pull1D
Entries 88
Mean −0.07465
Std Dev 0.5825

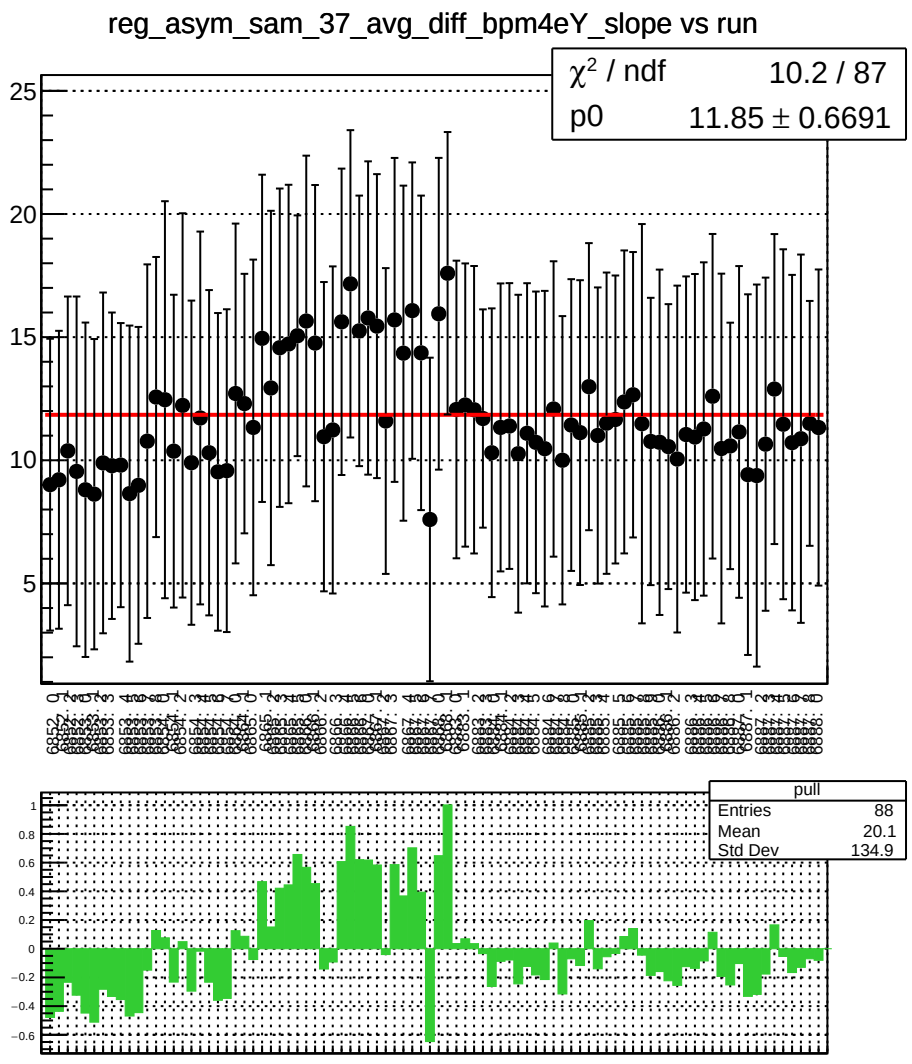

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.01 / 87
p0 −38.25 ± 0.6271
pull
Entries 88
Mean 367.1
Std Dev 0
pull1D
Entries 88
Mean −0.02284
Std Dev 0.7306

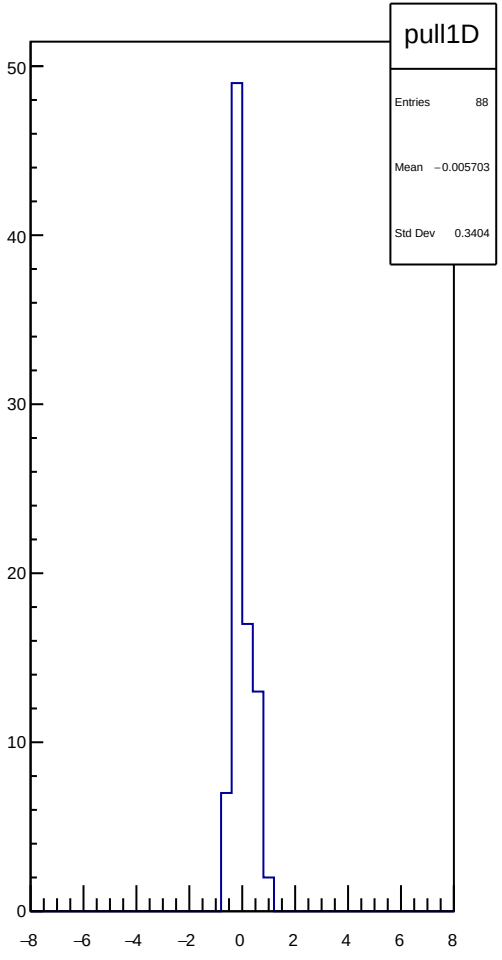

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 67.93 / 87
p0 0.3244 ± 0.03272
pull
Entries 88
Mean 301.1
Std Dev 0
pull1D
Entries 88
Mean 0.07904
Std Dev 0.875

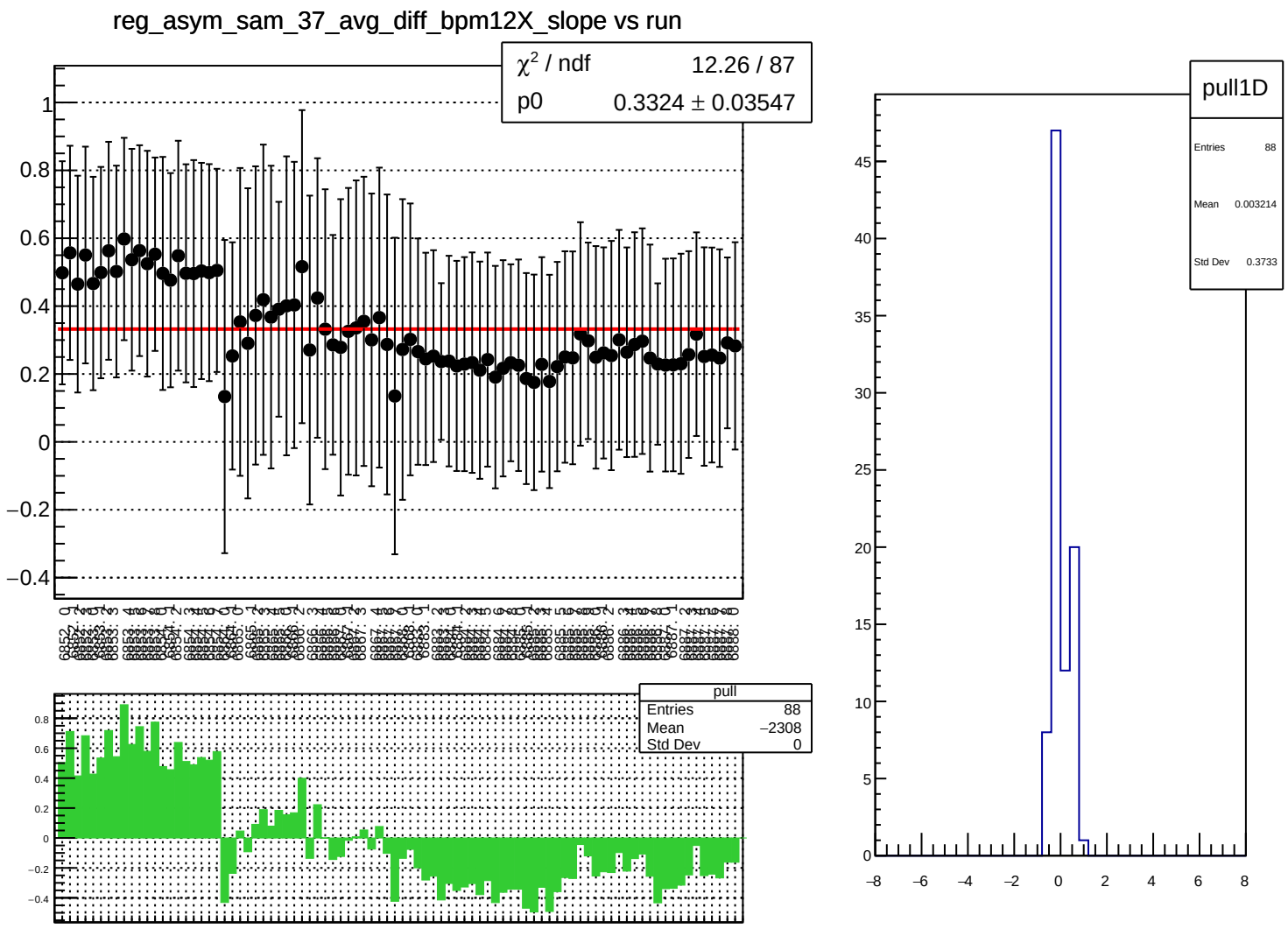

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 91.03 / 87
p0 −10.99 ± 0.9586
pull
Entries 88
Mean −112.9
Std Dev 0
pull1D
Entries 88
Mean −0.04583
Std Dev 1.016

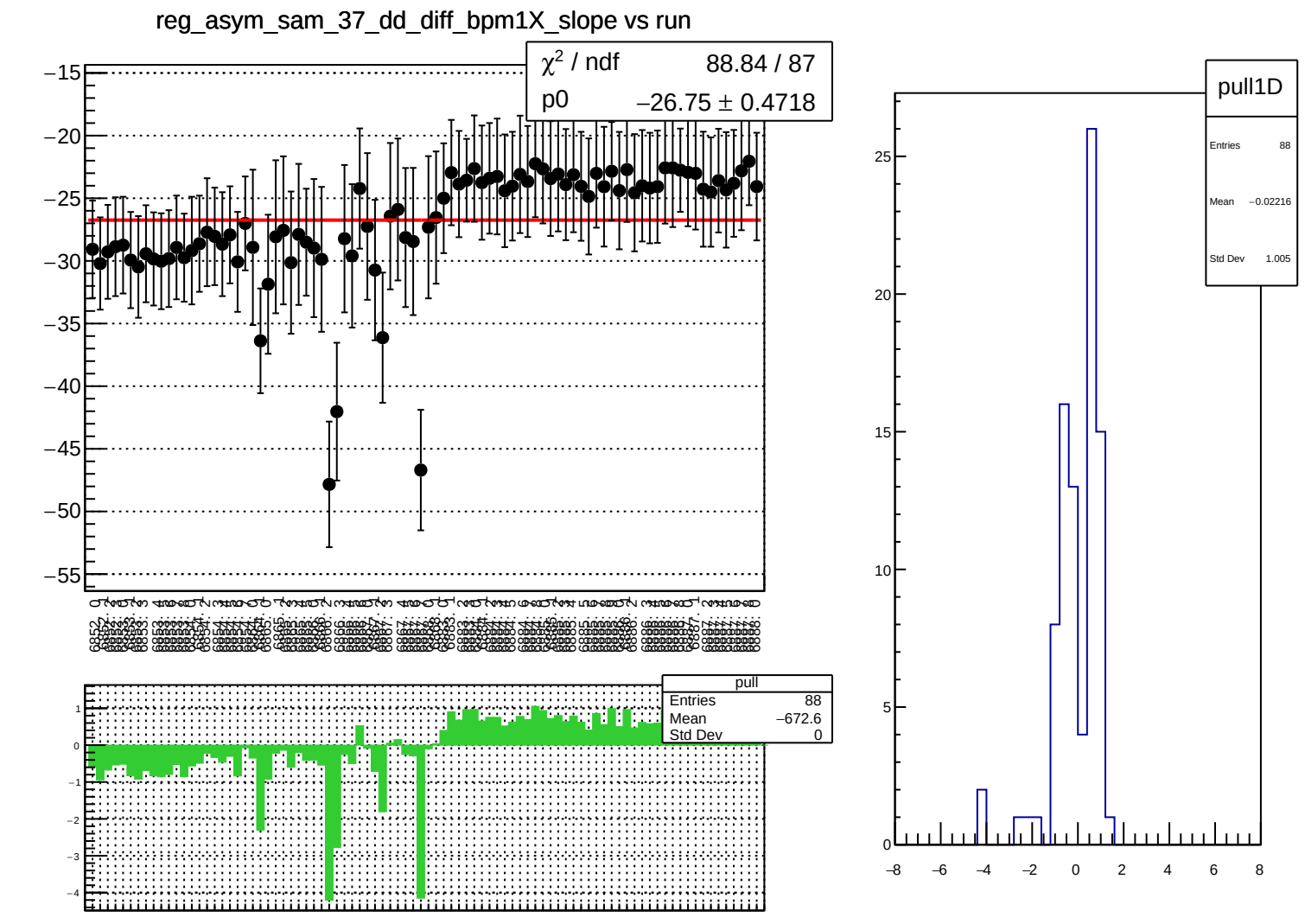

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.995 / 87
p0 −1.6 ± 0.5186
pull
Entries 88
Mean 58.98
Std Dev 84.61
pull1D
Entries 88
Mean 0.0113
Std Dev 0.3012

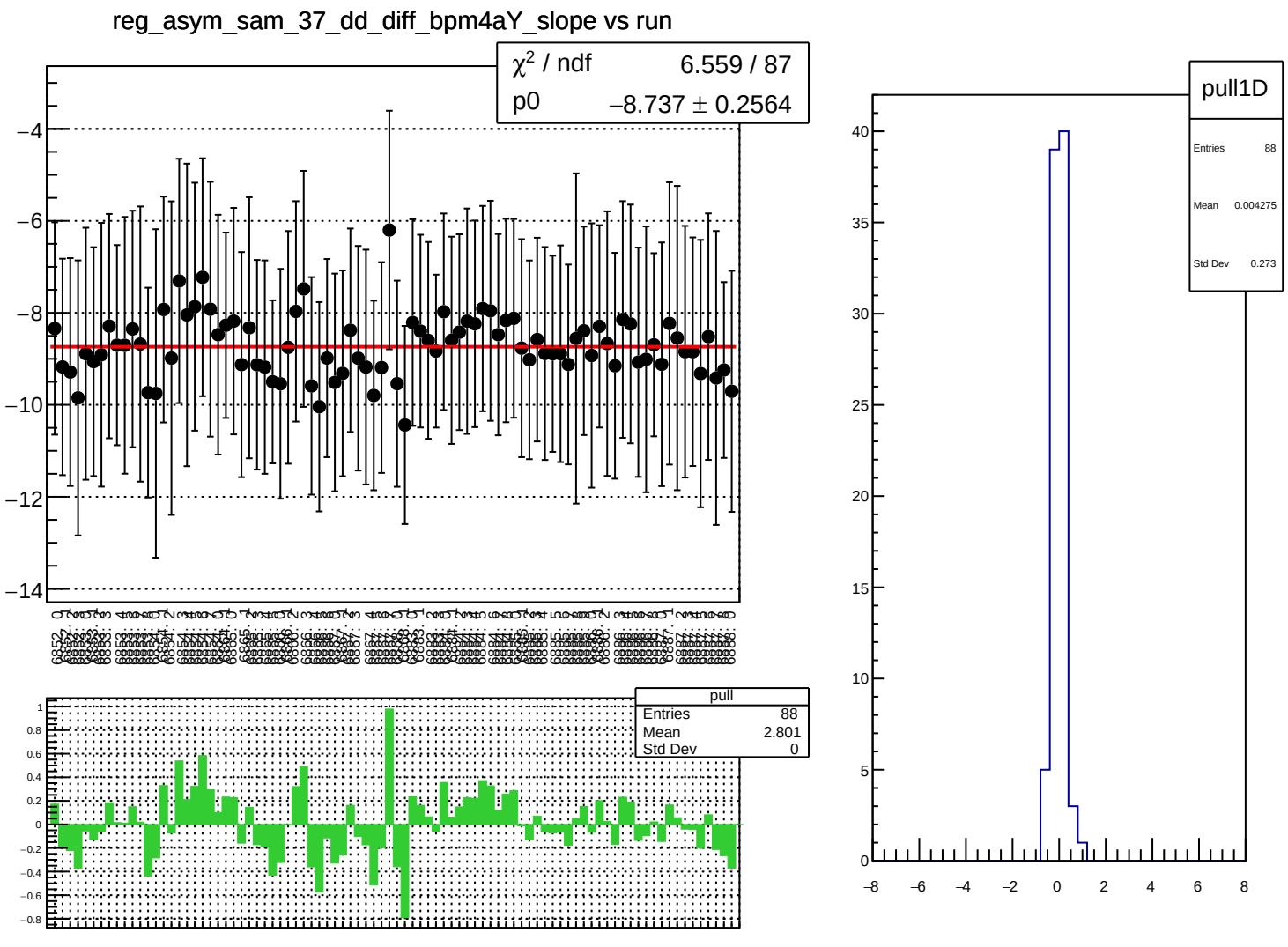

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.11 / 87
p0 −71.58 ± 0.9155
pull
Entries 88
Mean −148.4
Std Dev 0
pull1D
Entries 88
Mean 0.03417
Std Dev 0.8661

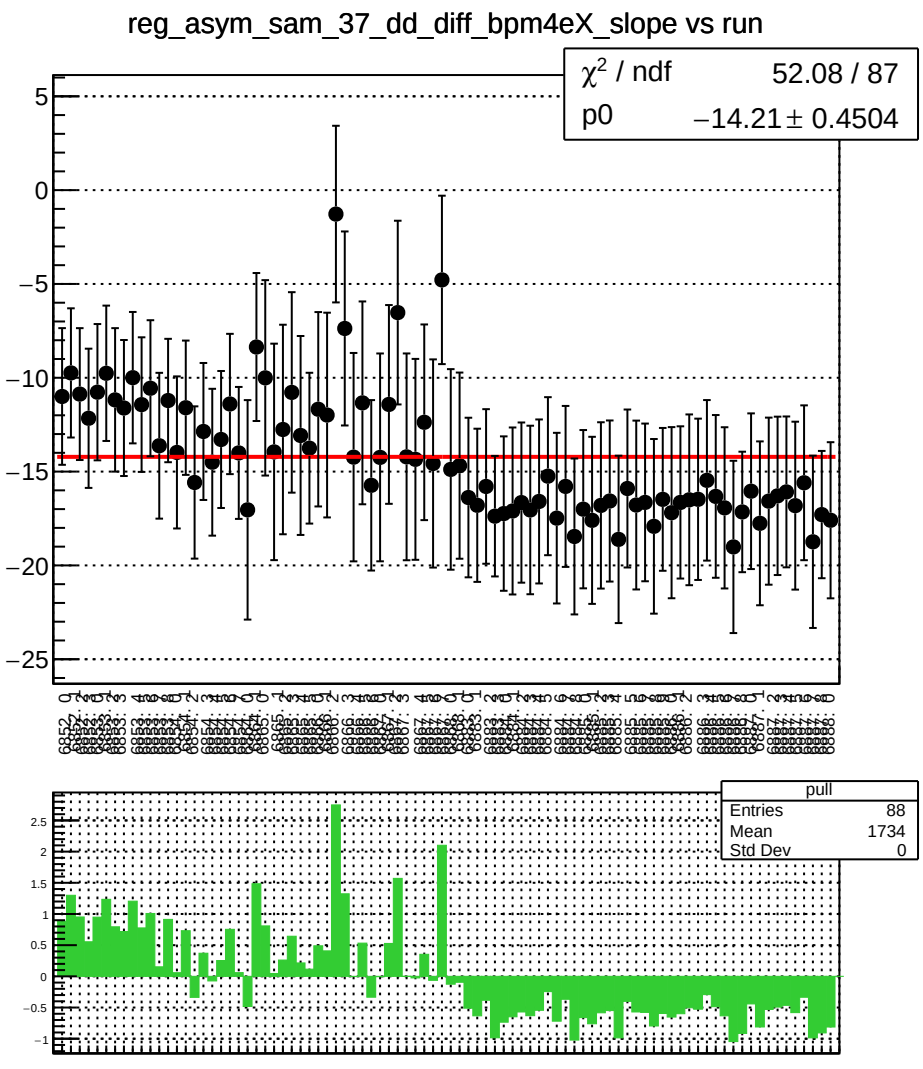

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.2 / 87
p0 11.85 ± 0.6691
pull
Entries 88
Mean 20.1
Std Dev 134.9

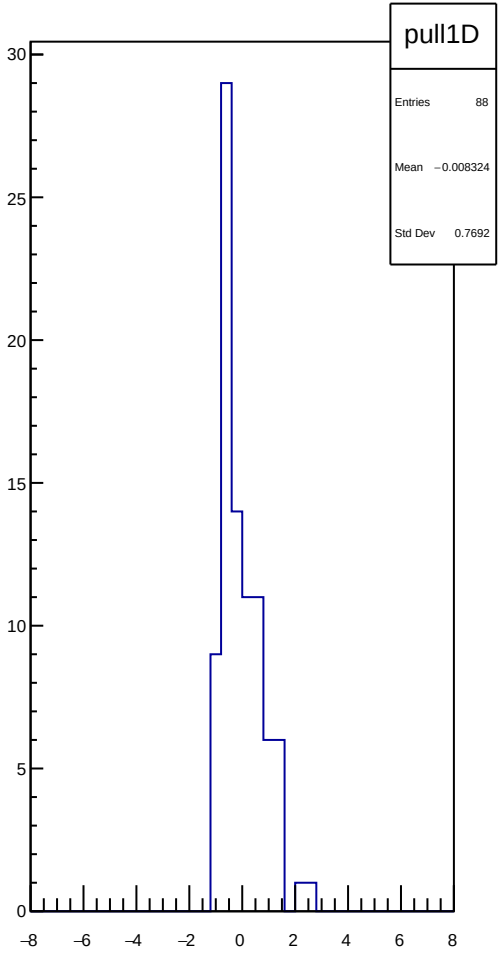

pull1D
Entries 88
Mean −0.005703
Std Dev 0.3404

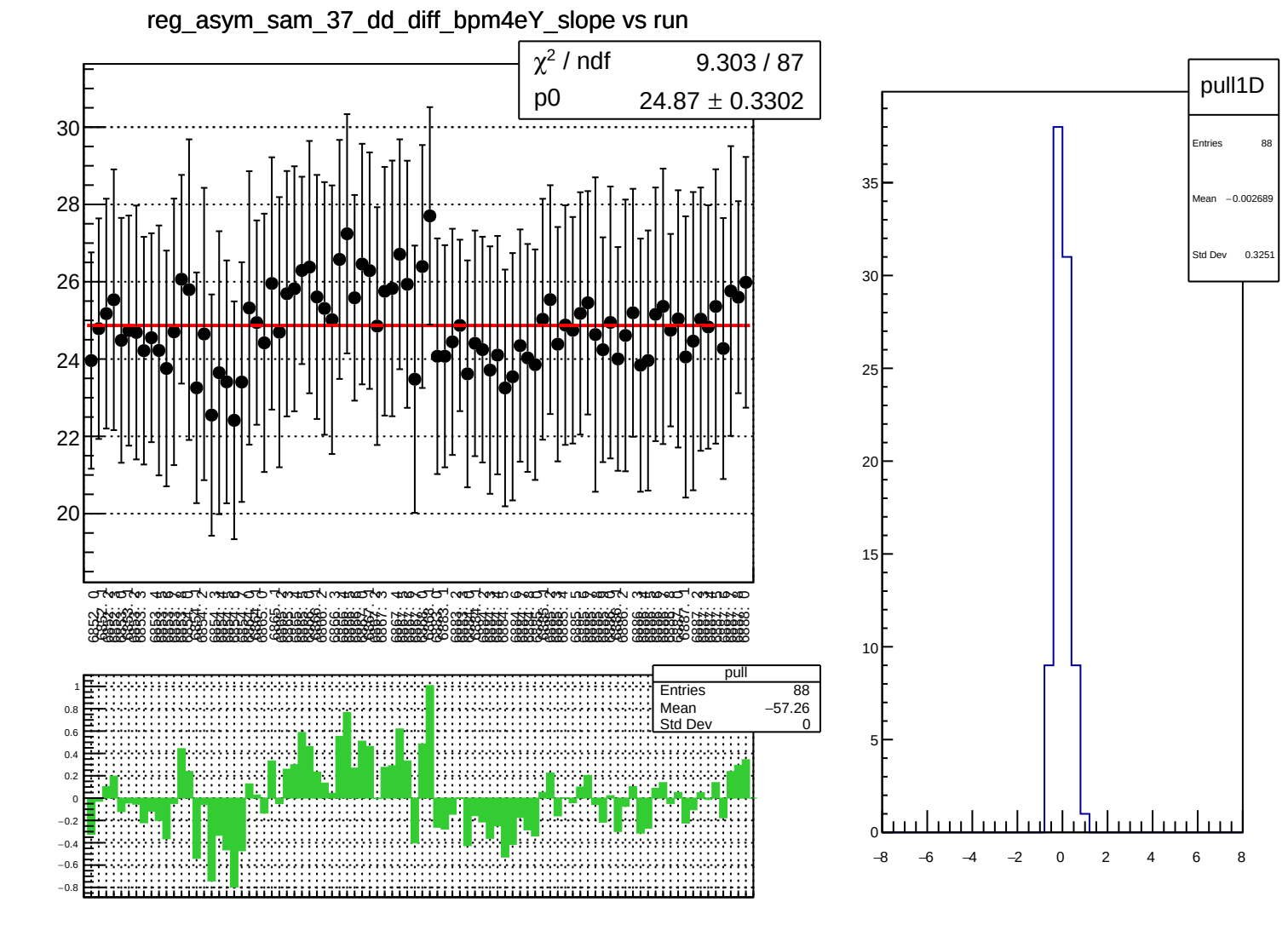

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 12.26 / 87
p0 0.3324 ± 0.03547
pull
Entries 88
Mean −2308
Std Dev 0
pull1D
Entries 88
Mean 0.003214
Std Dev 0.3733

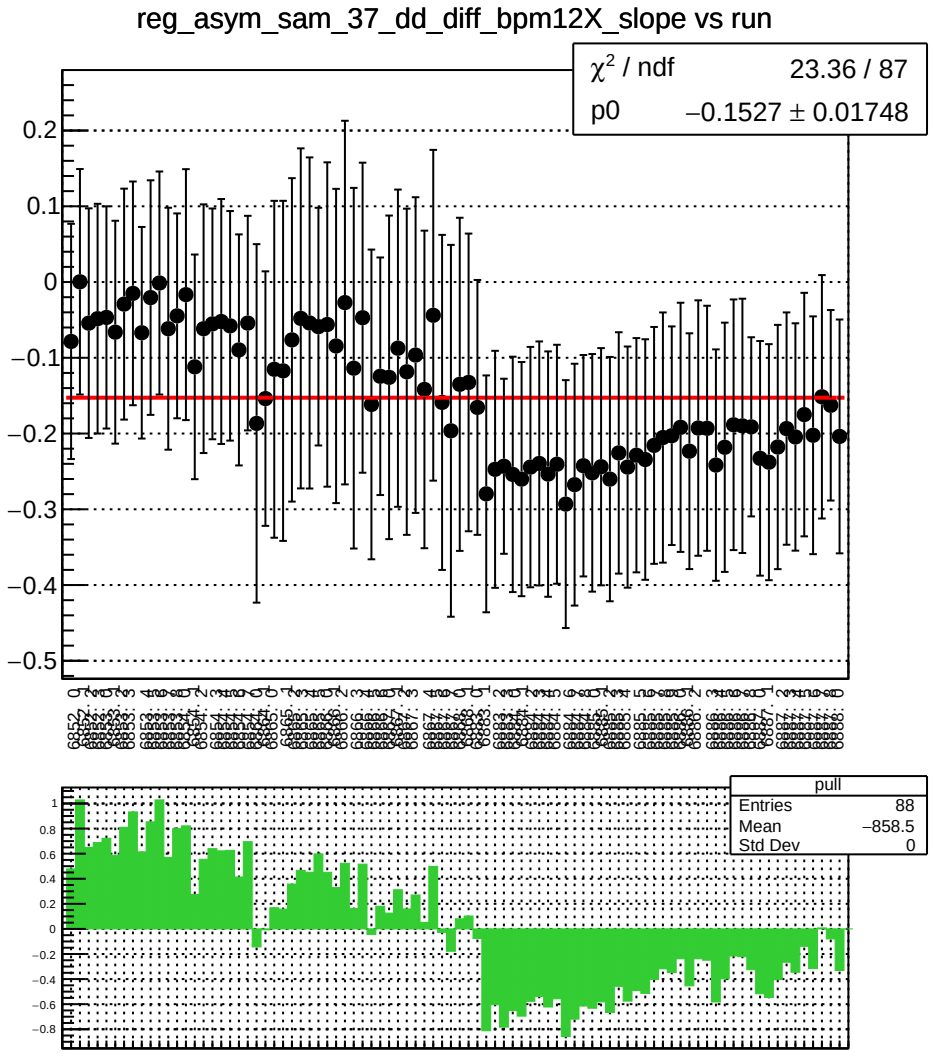

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 88.84 / 87
p0 −26.75 ± 0.4718
pull
Entries 88
Mean −672.6
Std Dev 0
pull1D
Entries 88
Mean −0.02216
Std Dev 1.005

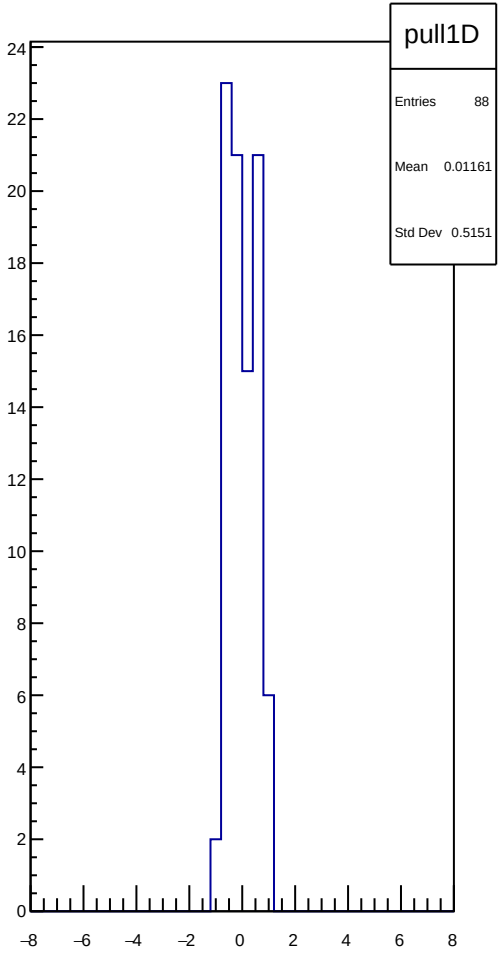

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.559 / 87
p0 −8.737 ± 0.2564
pull
Entries 88
Mean 2.801
Std Dev 0
pull1D
Entries 88
Mean 0.004275
Std Dev 0.273

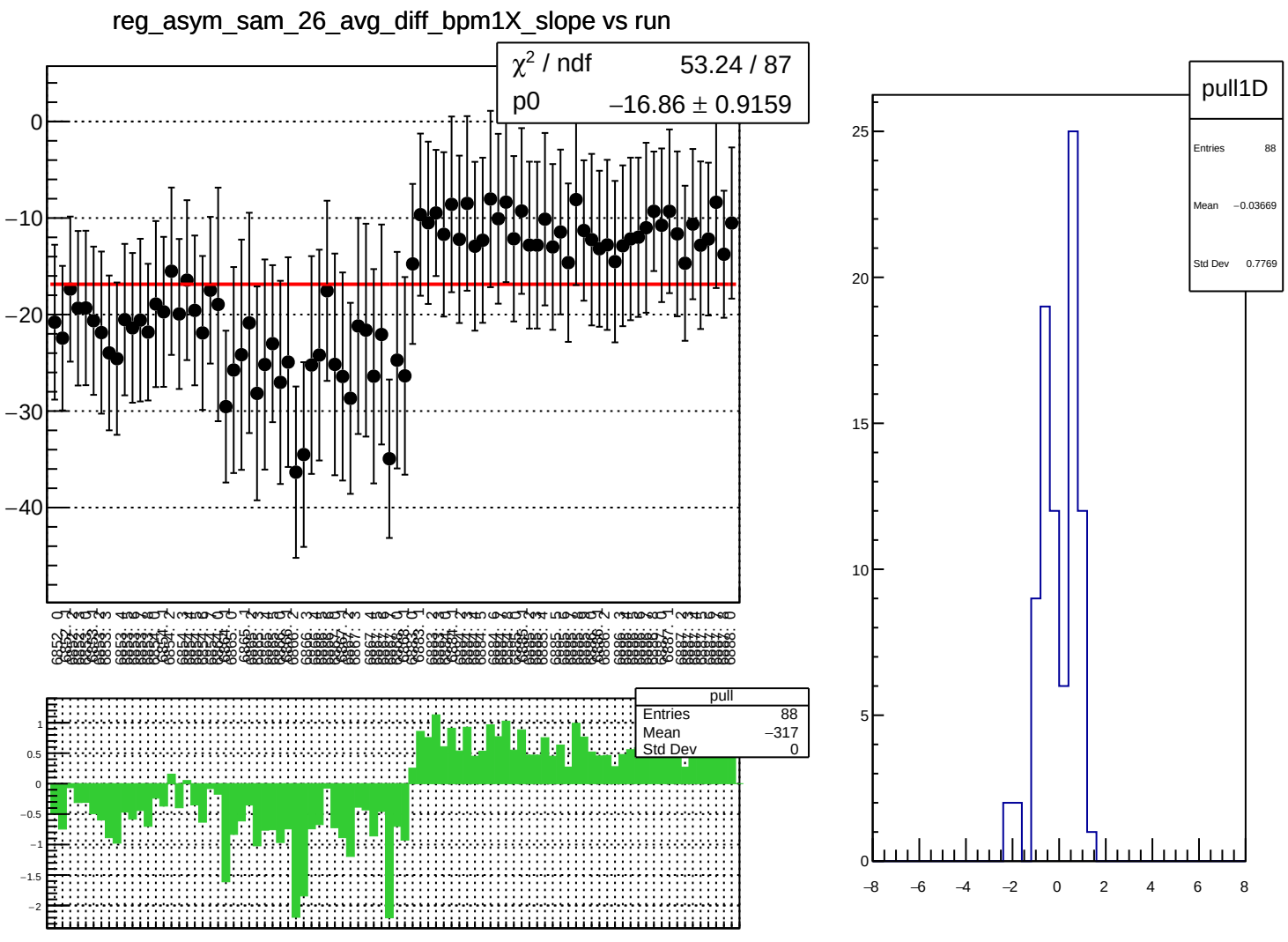

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.08 / 87
p0 −14.21 ± 0.4504
pull
Entries 88
Mean 1734
Std Dev 0

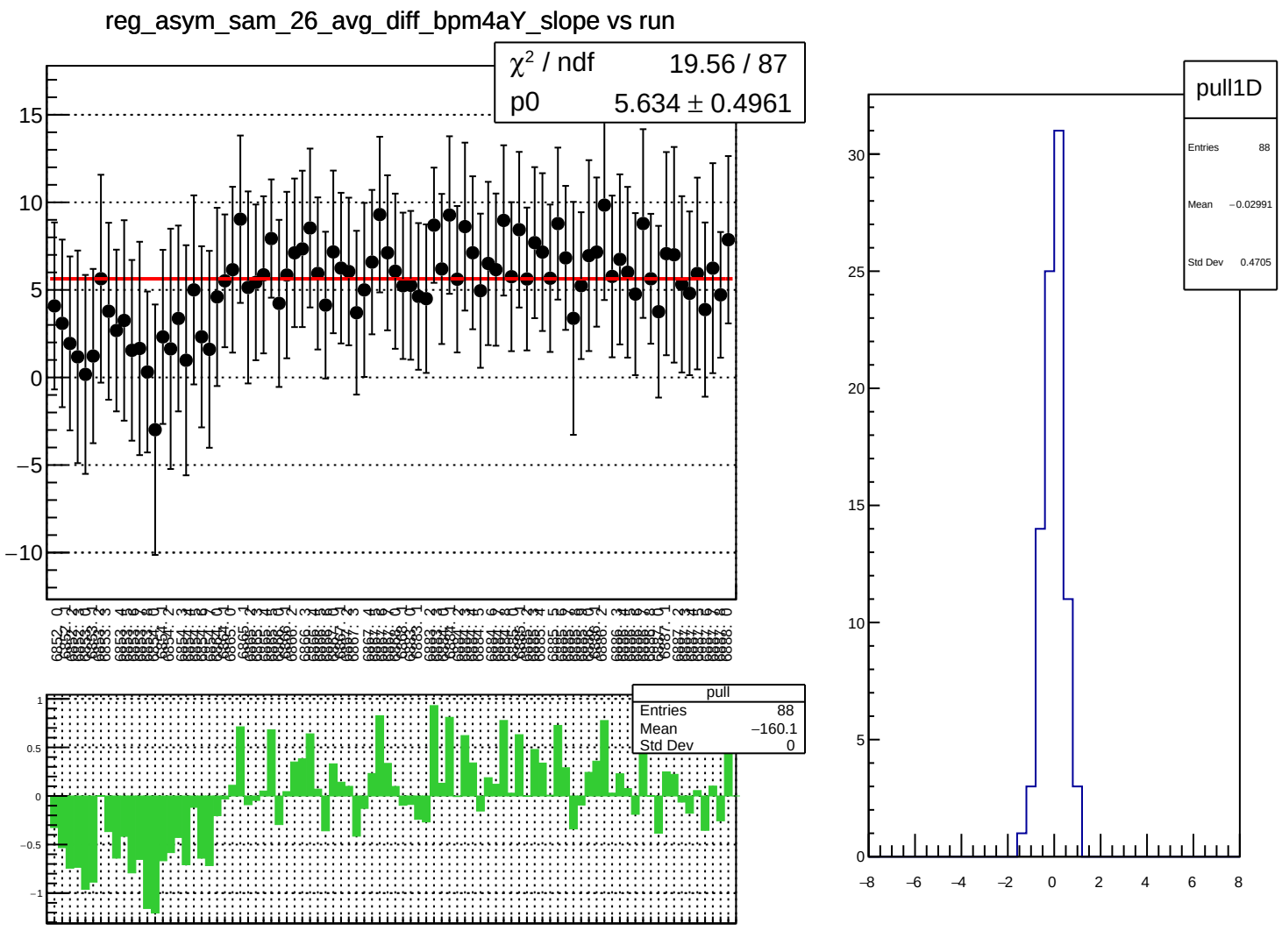

pull1D
Entries 88
Mean −0.008324
Std Dev 0.7692

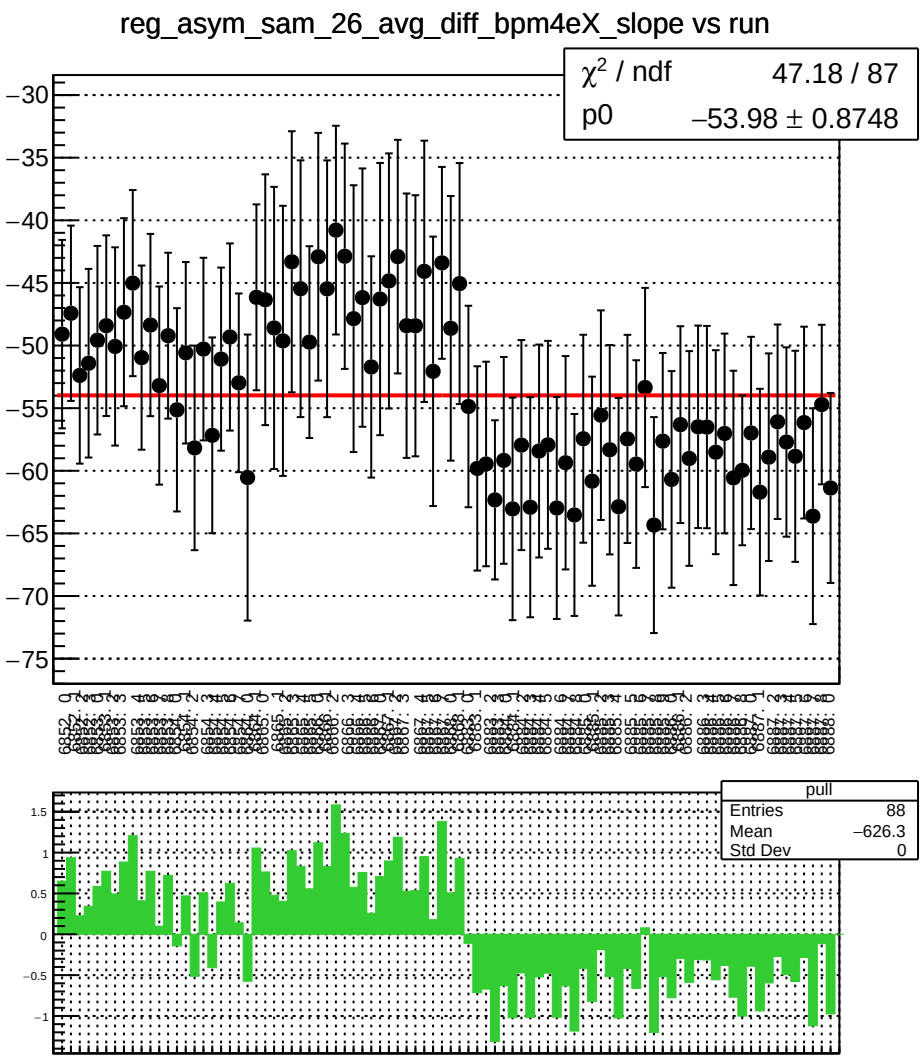

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.303 / 87
p0 24.87 ± 0.3302
30
28
26
24
22
20
pull
Entries 88
Mean −57.26
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean −0.002689
Std Dev 0.3251
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

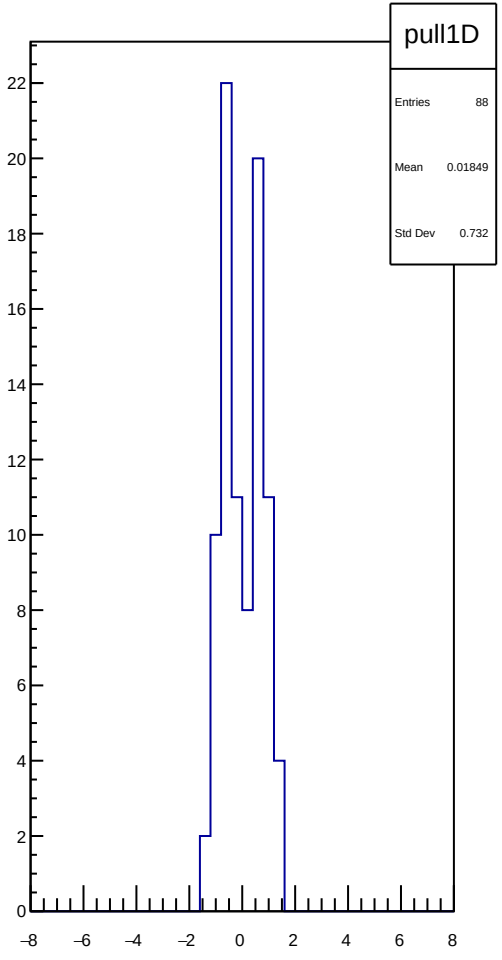

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 23.36 / 87
p0 −0.1527 ± 0.01748
pull
Entries 88
Mean −858.5
Std Dev 0

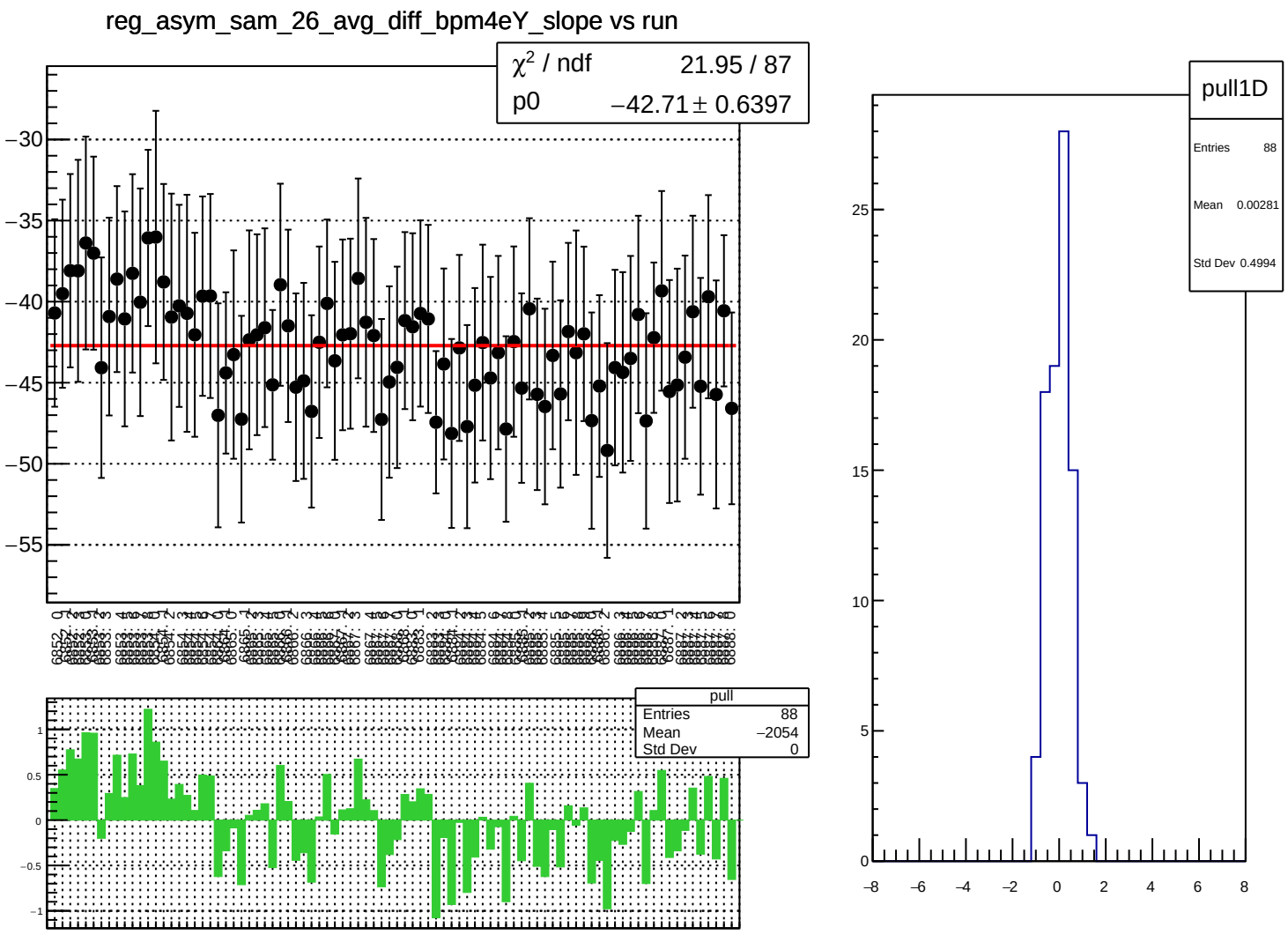

pull1D
Entries 88
Mean 0.01161
Std Dev 0.5151

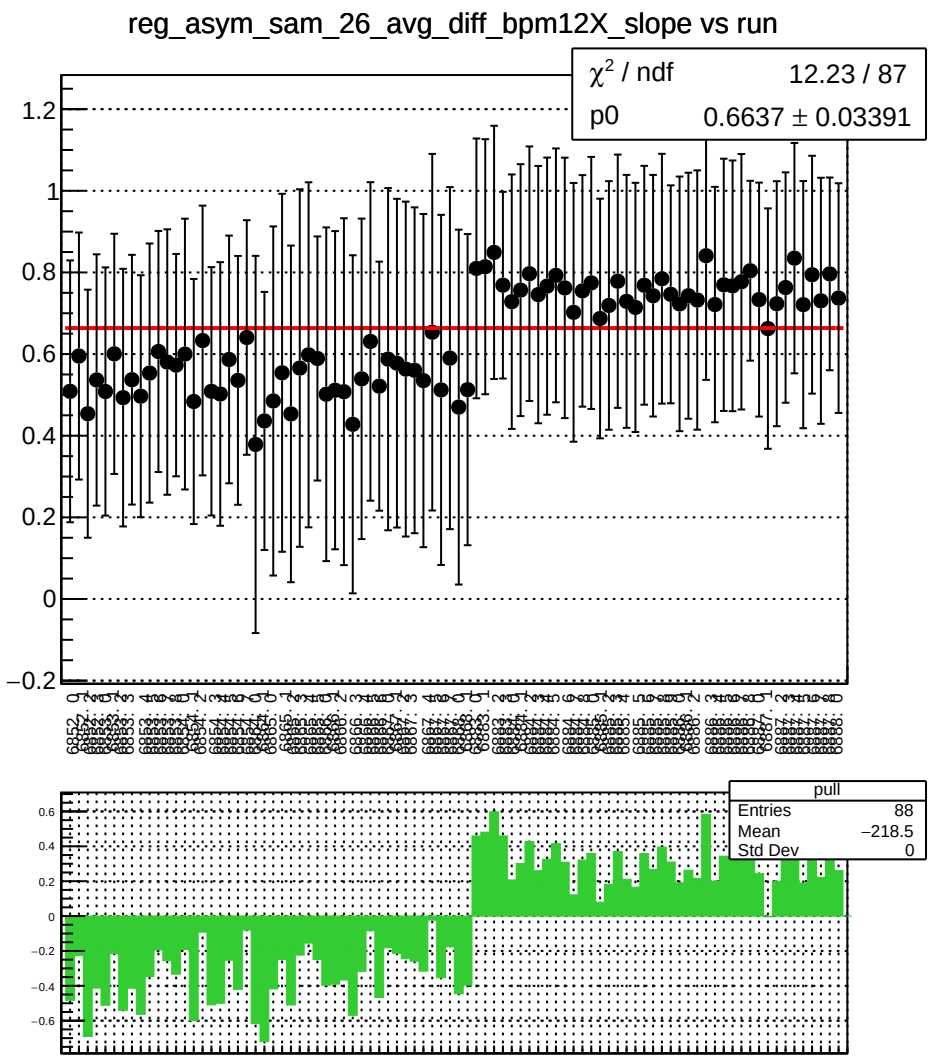

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 53.24 / 87
p0 −16.86 ± 0.9159
0
−10
−20
−30
−40
pull
Entries 88
Mean −317
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean −0.03669
Std Dev 0.7769
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

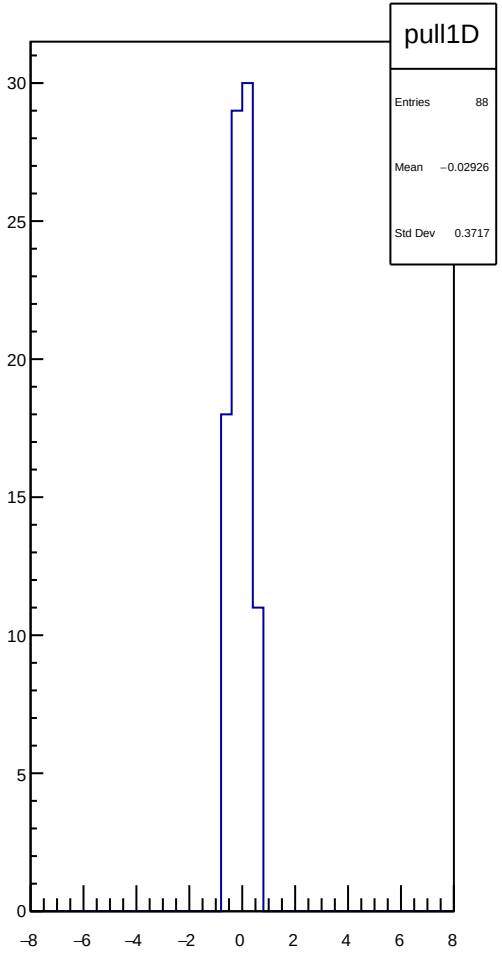

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.56 / 87
p0 5.634 ± 0.4961
pull
Entries 88
Mean −160.1
Std Dev 0
pull1D
Entries 88
Mean −0.02991
Std Dev 0.4705

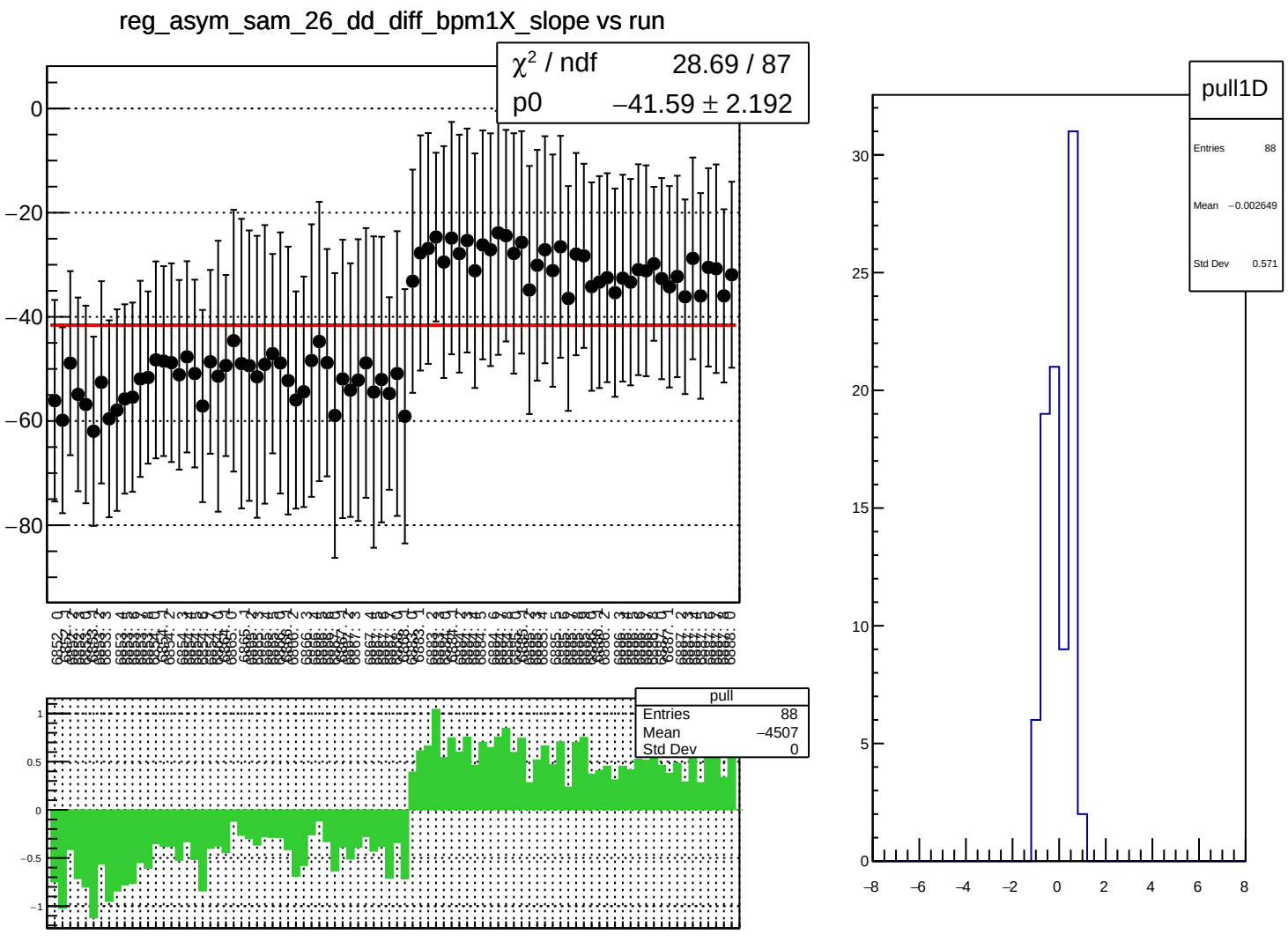

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.18 / 87
p0 −53.98 ± 0.8748
pull
Entries 88
Mean −626.3
Std Dev 0

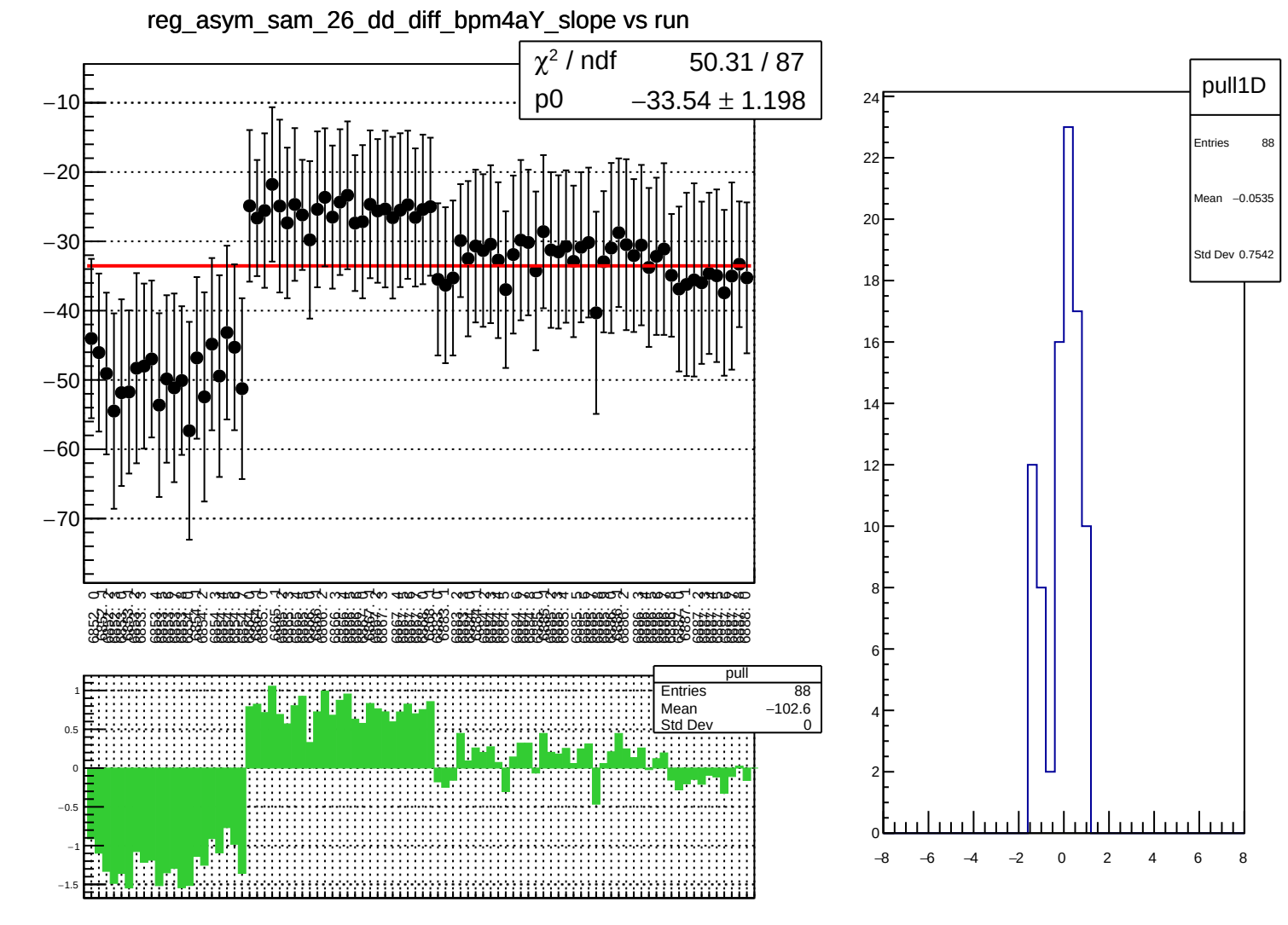

pull1D
Entries 88
Mean 0.01849
Std Dev 0.732

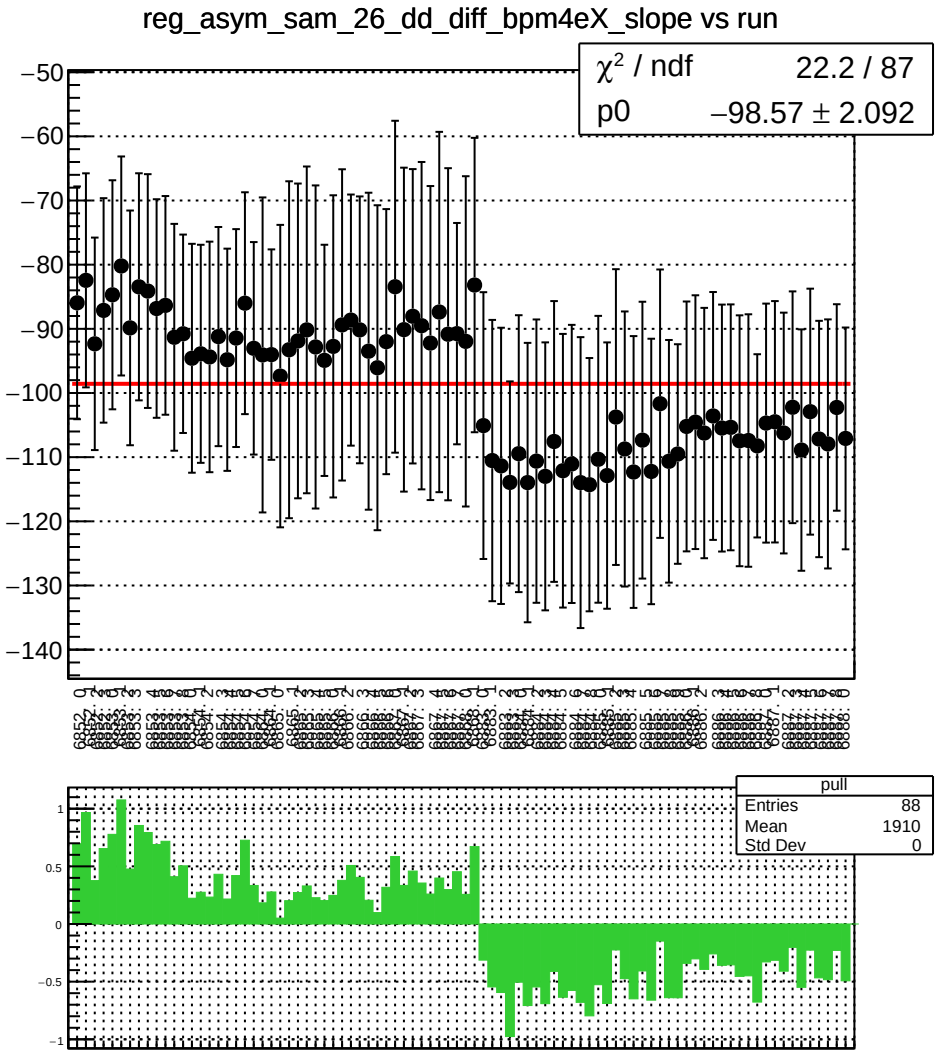

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.95 / 87
p0 −42.71 ± 0.6397
−30
−35
−40
−45
−50
−55
pull
Entries 88
Mean −2054
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.00281
Std Dev 0.4994
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

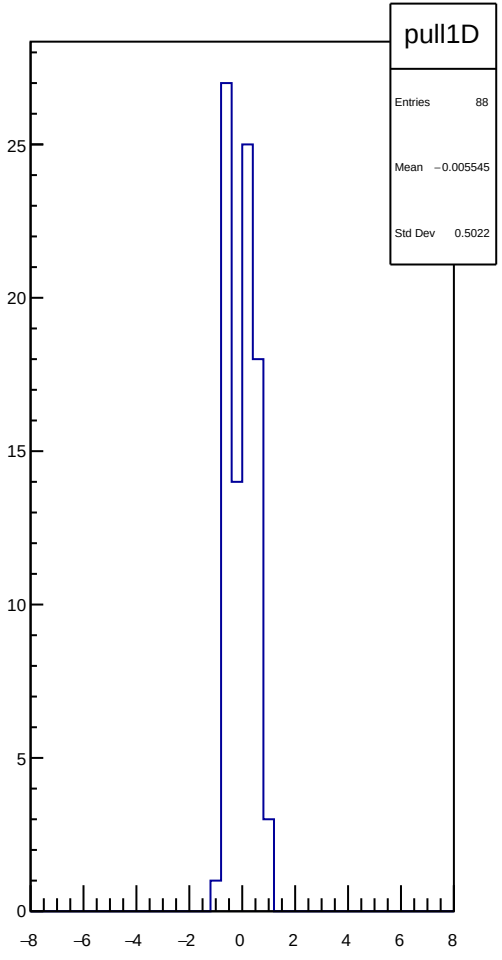

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 12.23 / 87
p0 0.6637 ± 0.03391
pull
Entries 88
Mean −218.5
Std Dev 0

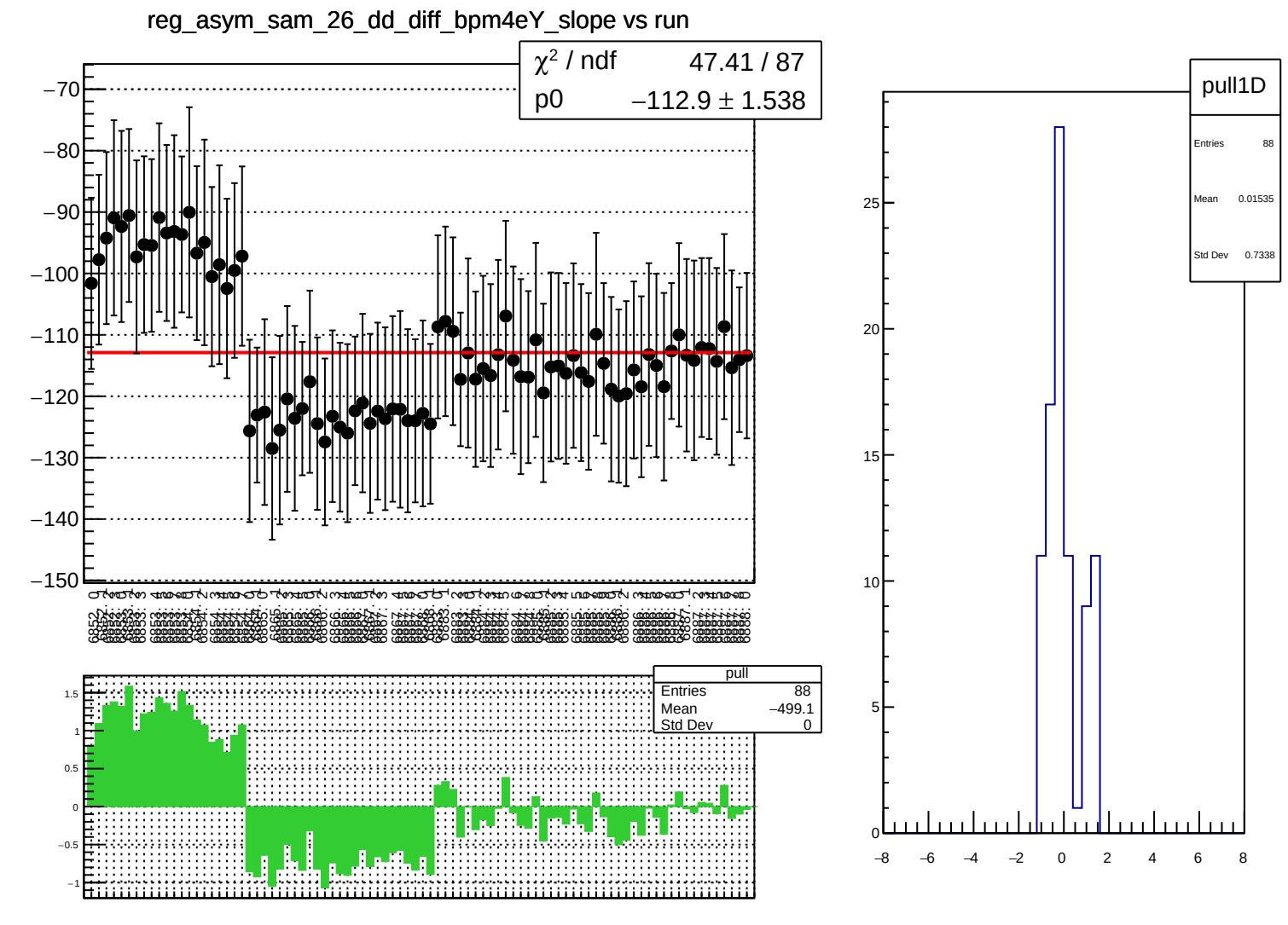

pull1D
Entries 88
Mean −0.02926
Std Dev 0.3717

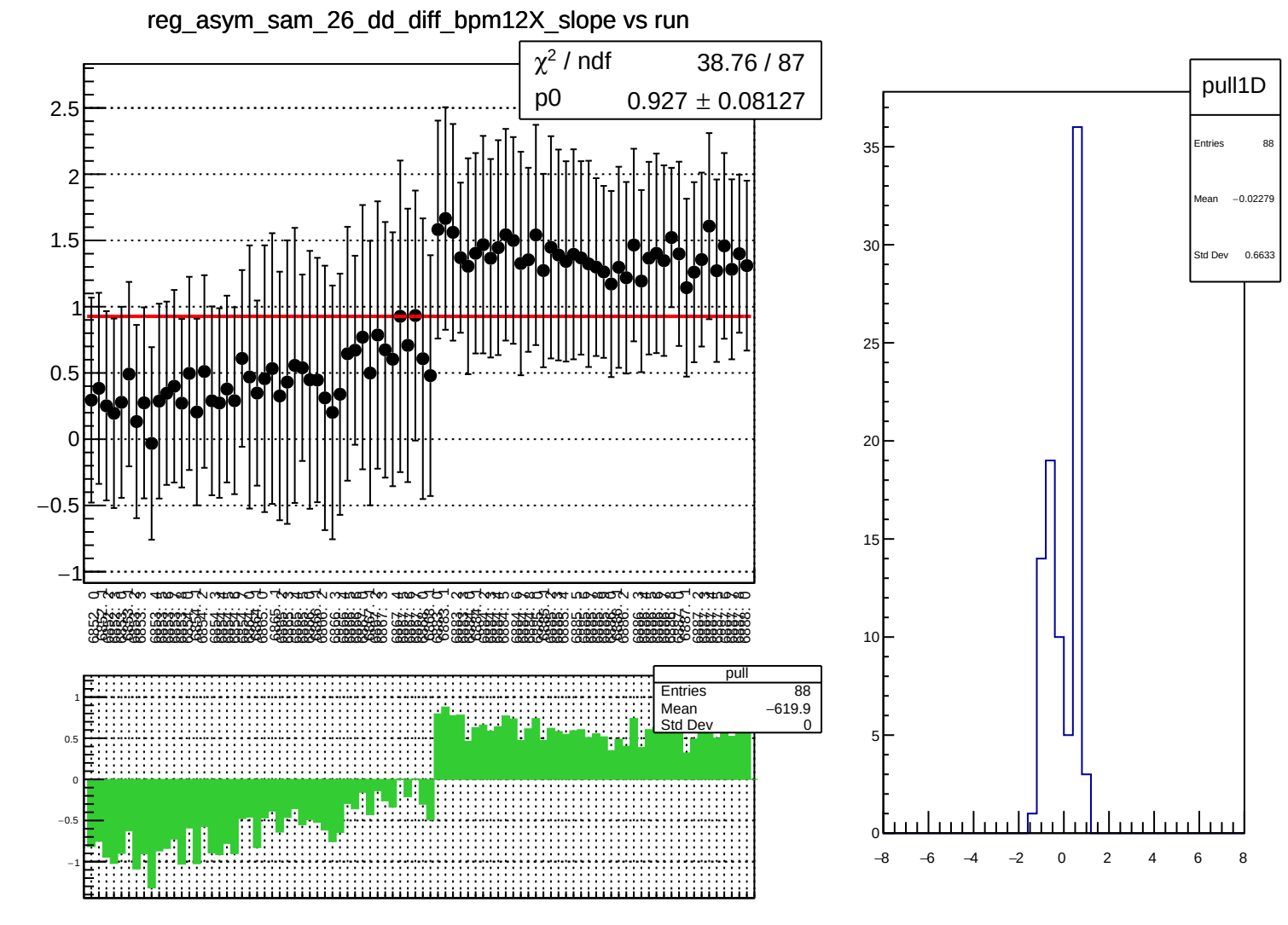

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 28.69 / 87
p0 −41.59 ± 2.192
0
−20
−40
−60
−80
pull
Entries 88
Mean −4507
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.002649
Std Dev 0.571
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

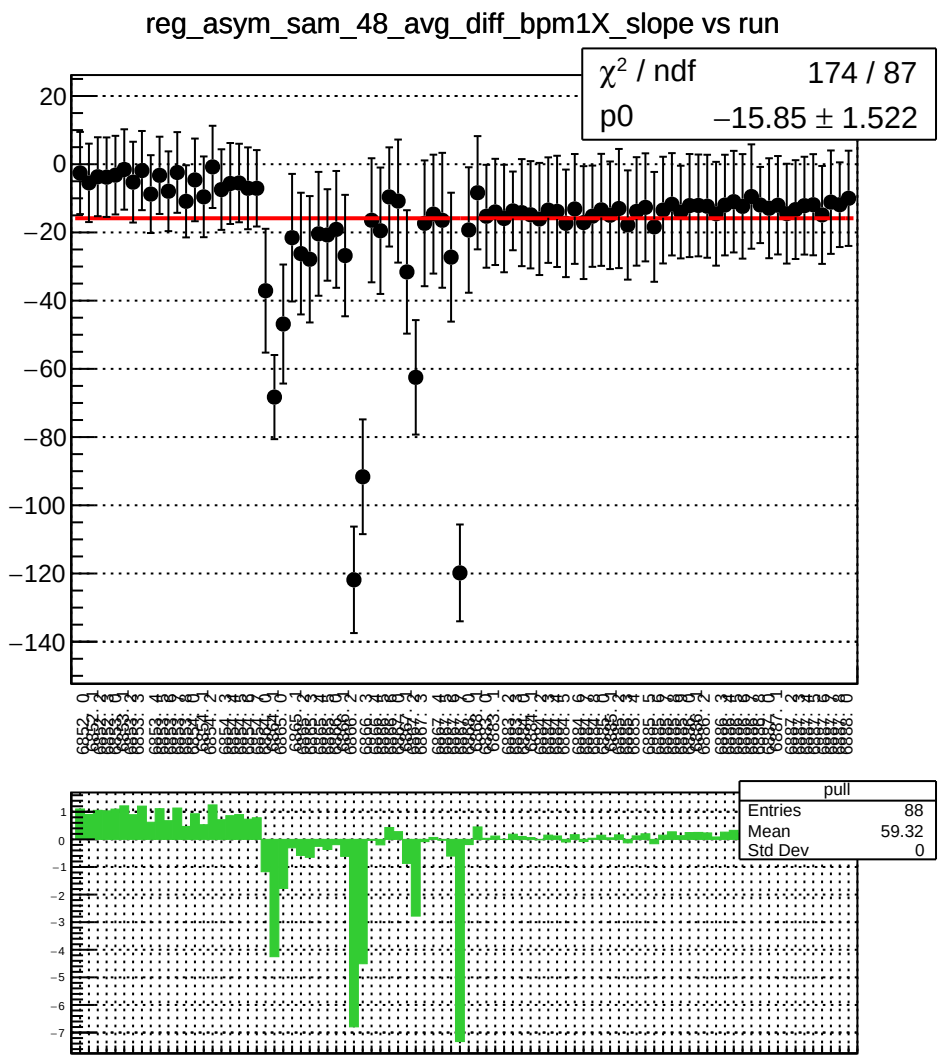

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.31 / 87
p0 −33.54 ± 1.198
pull
Entries 88
Mean −102.6
Std Dev 0
pull1D
Entries 88
Mean −0.0535
Std Dev 0.7542

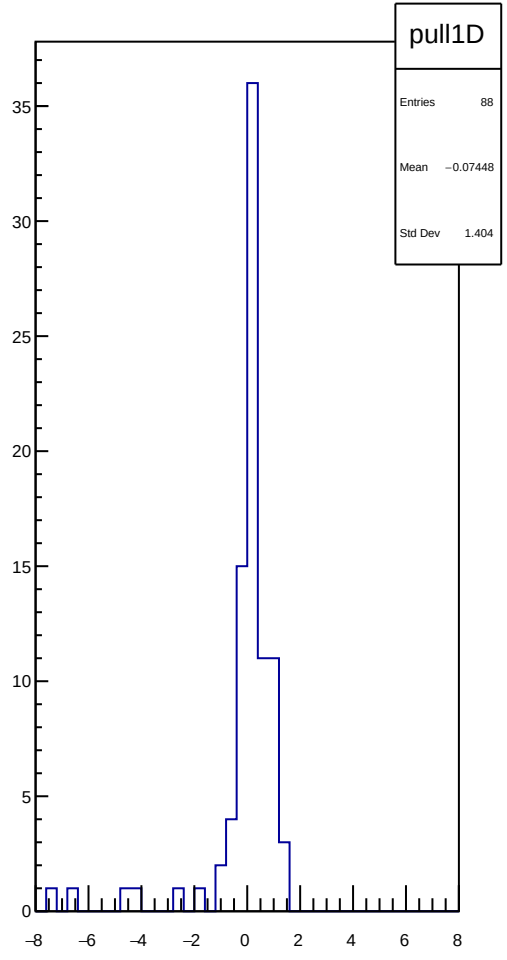

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.2 / 87
p0 −98.57 ± 2.092
pull
Entries 88
Mean 1910
Std Dev 0

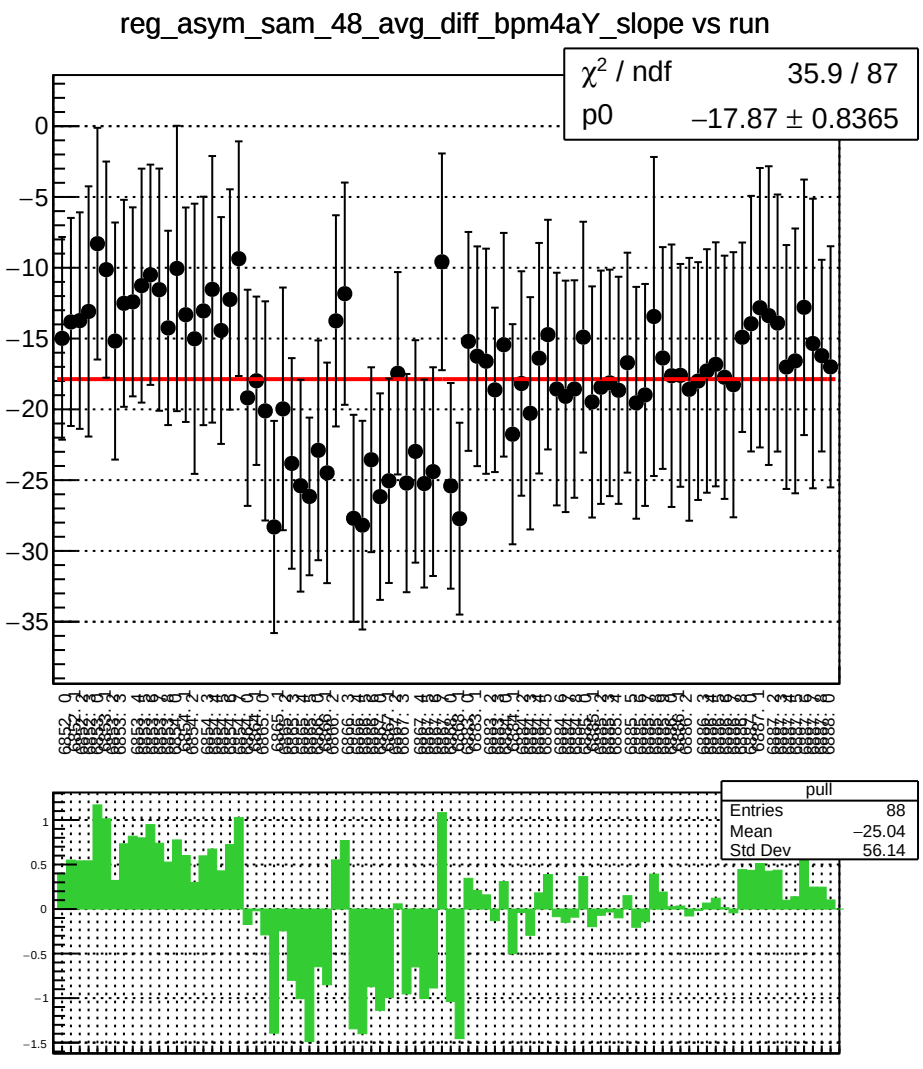

pull1D
Entries 88
Mean −0.005545
Std Dev 0.5022

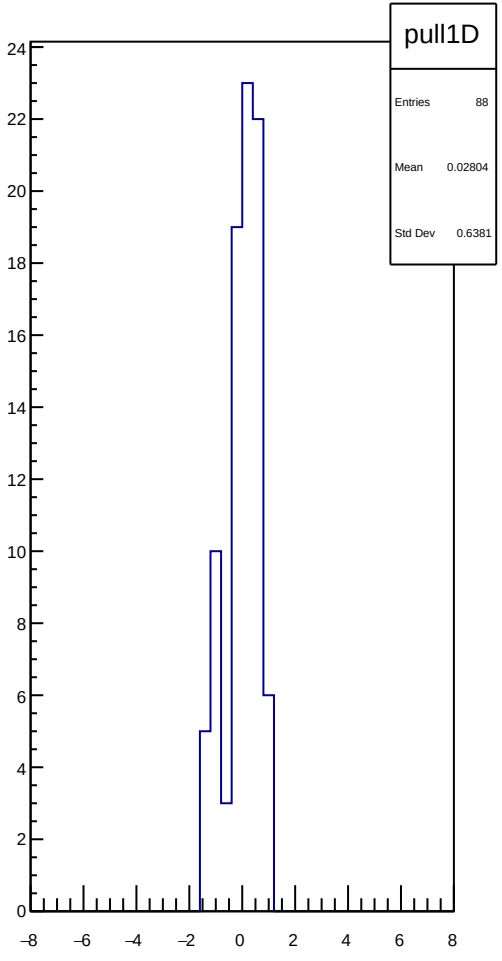

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.41 / 87
p0 −112.9 ± 1.538
pull
Entries 88
Mean −499.1
Std Dev 0
pull1D
Entries 88
Mean 0.01535
Std Dev 0.7338

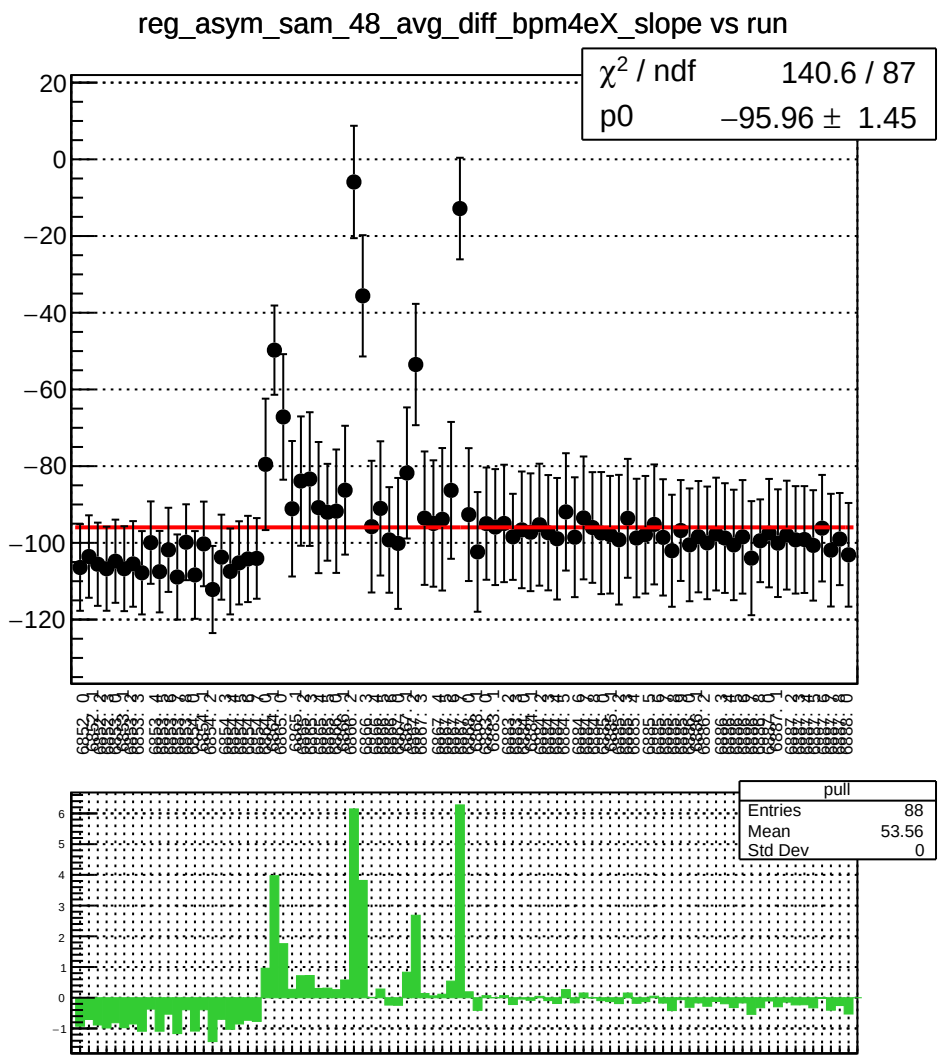

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 38.76 / 87
p0 0.927 ± 0.08127
pull
Entries 88
Mean −619.9
Std Dev 0
pull1D
Entries 88
Mean −0.02279
Std Dev 0.6633

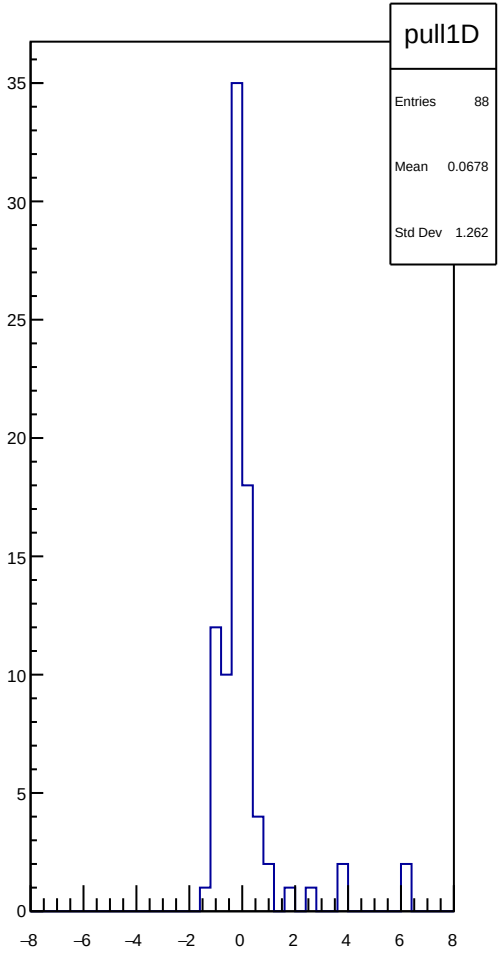

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 174 / 87
p0 −15.85 ± 1.522
pull
Entries 88
Mean 59.32
Std Dev 0

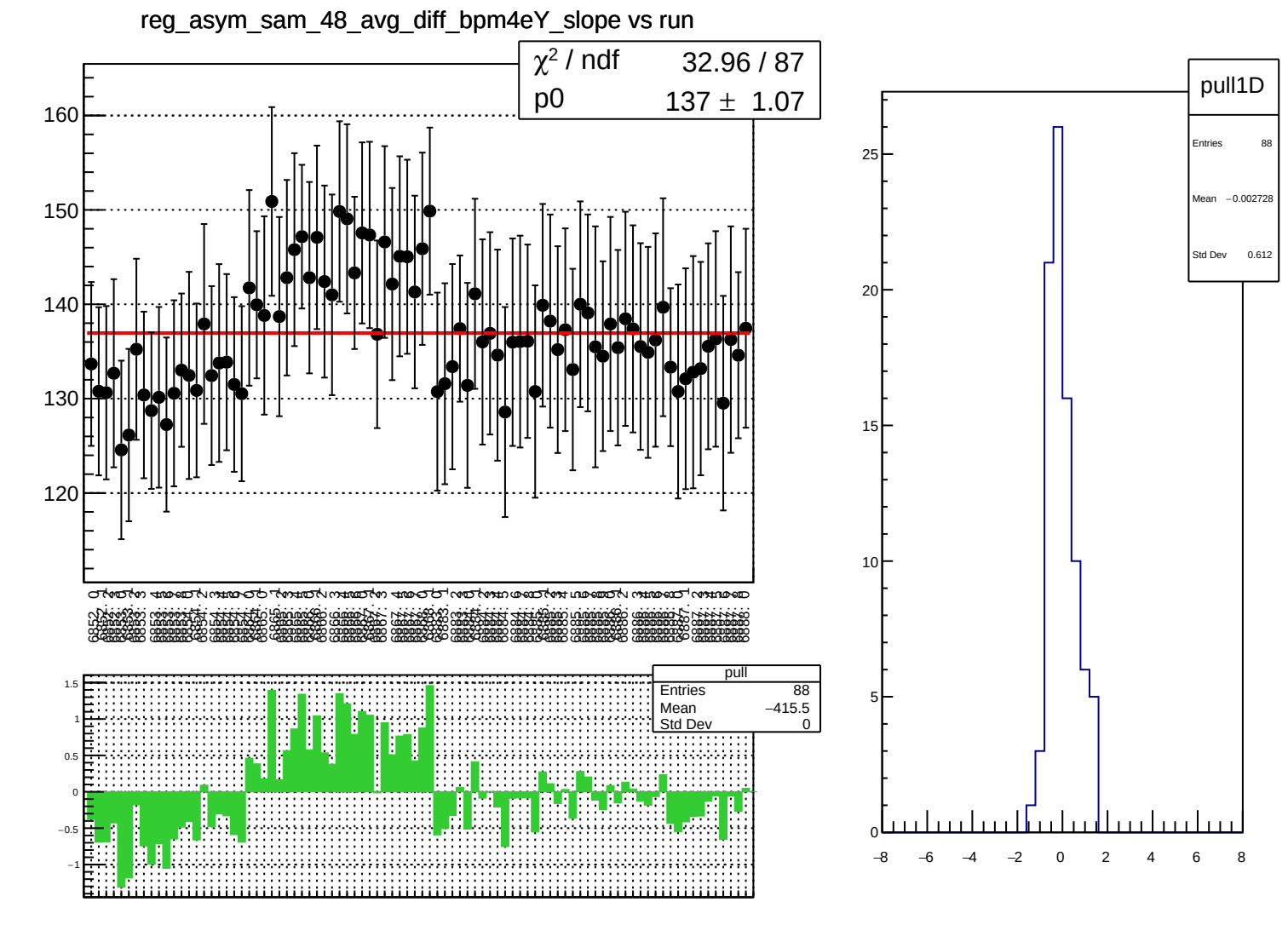

pull1D
Entries 88
Mean −0.07448
Std Dev 1.404

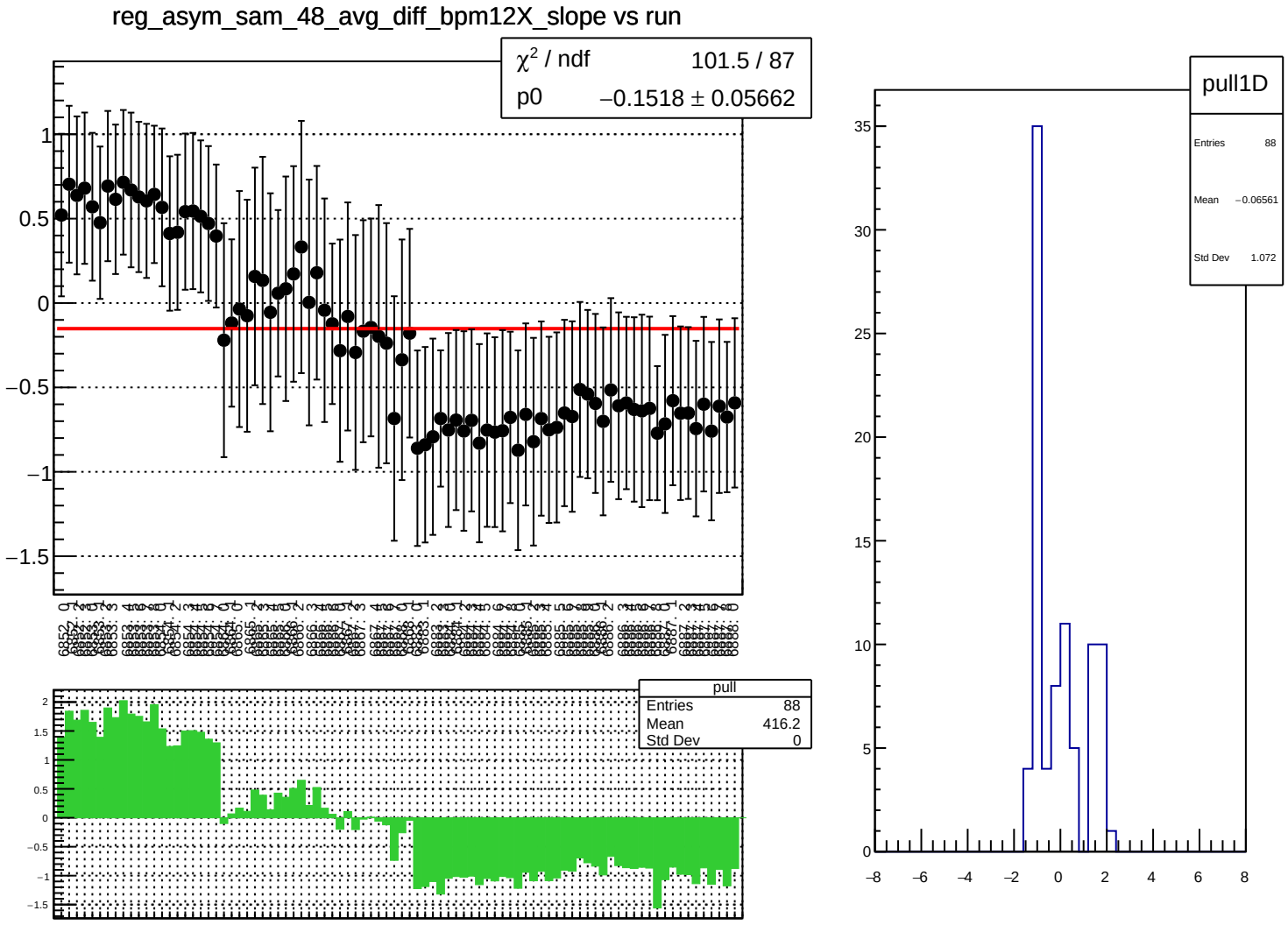

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.9 / 87
p0 −17.87 ± 0.8365
pull
Entries 88
Mean −25.04
Std Dev 56.14

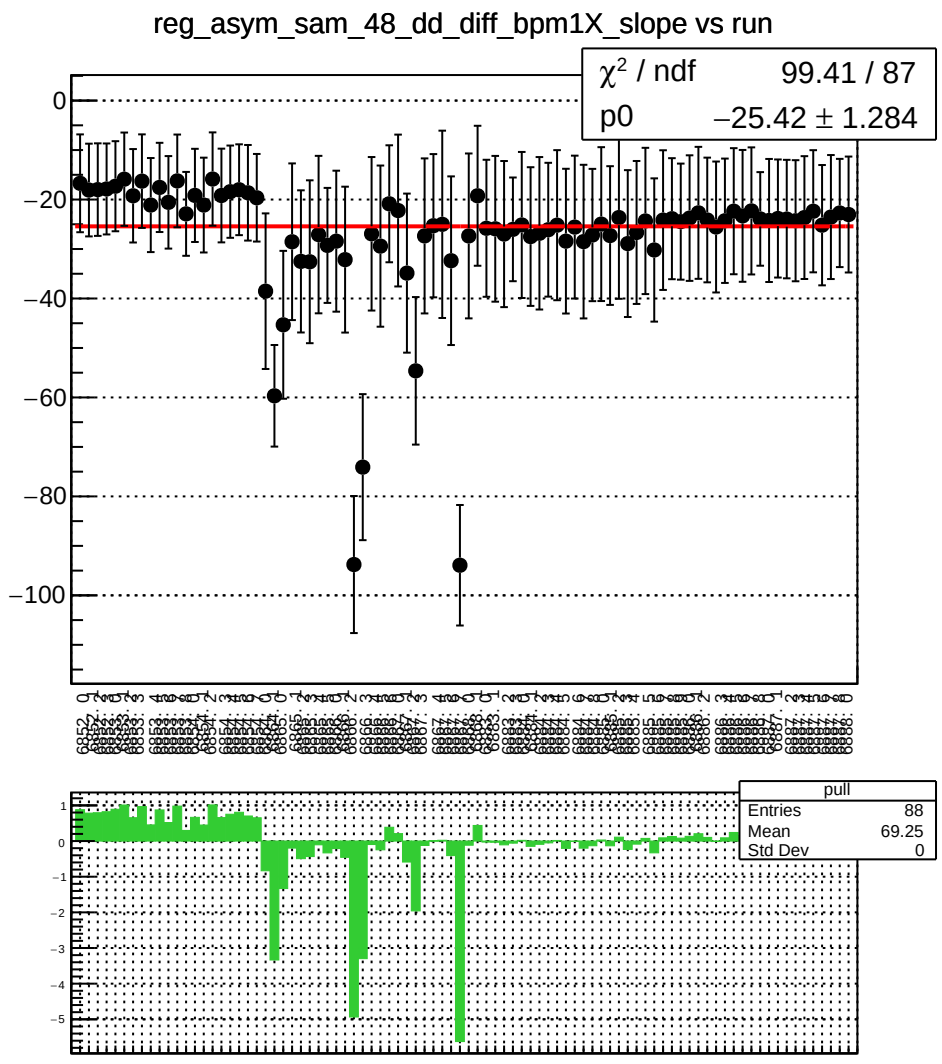

pull1D
Entries 88
Mean 0.02804
Std Dev 0.6381

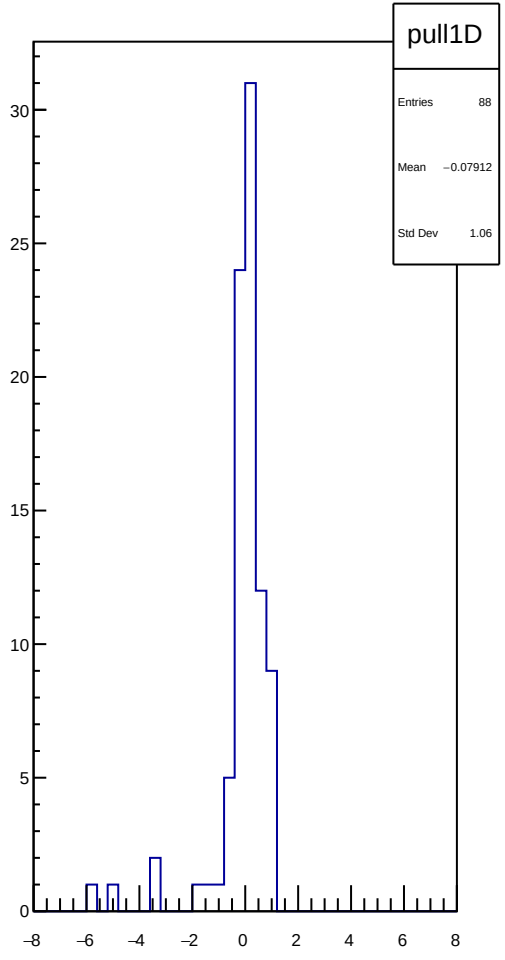

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 140.6 / 87
p0 −95.96 ± 1.45
pull
Entries 88
Mean 53.56
Std Dev 0

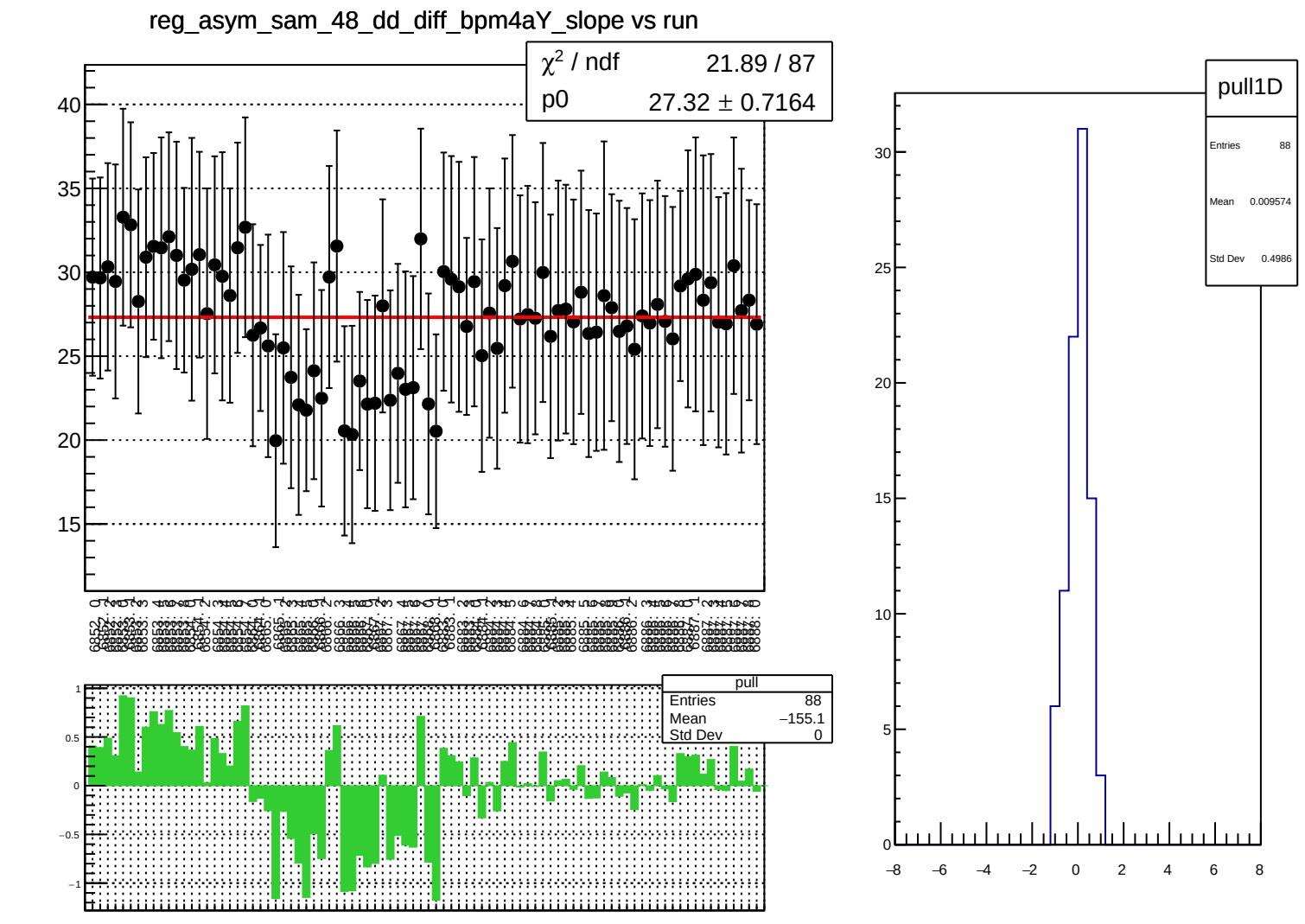

pull1D
Entries 88
Mean 0.0678
Std Dev 1.262

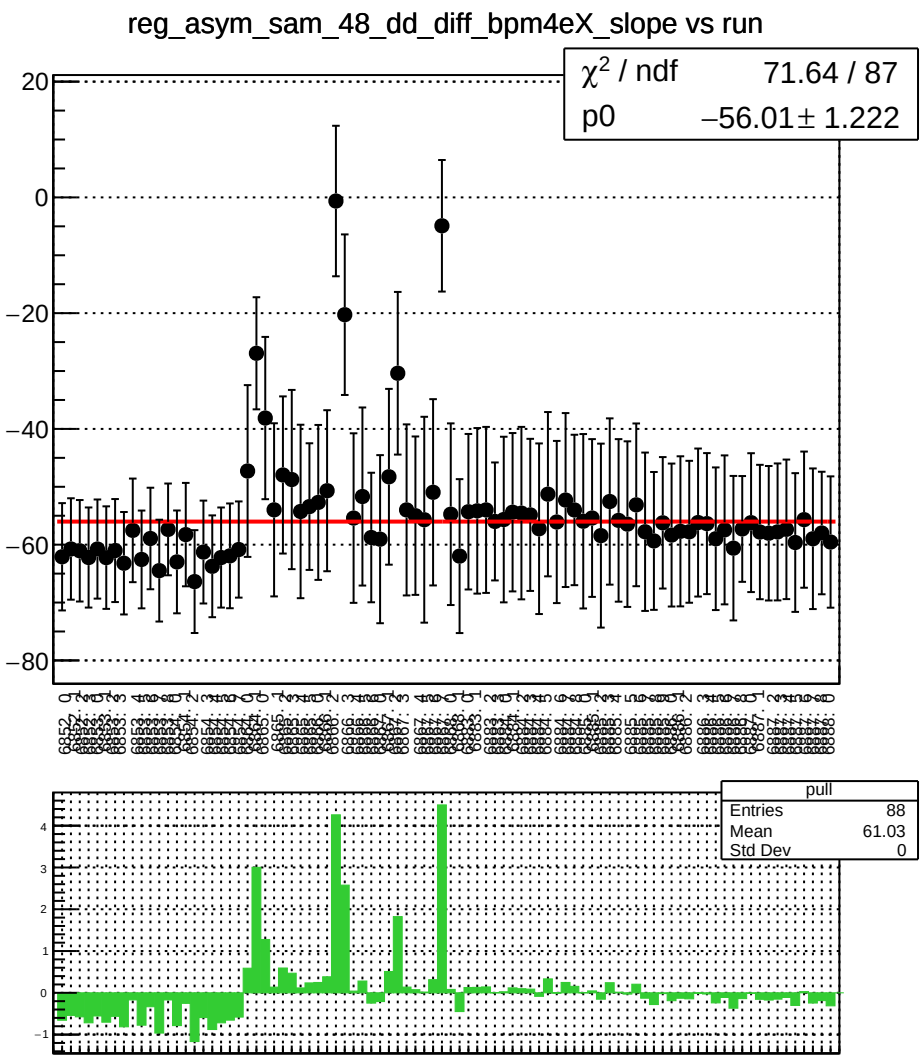

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.96 / 87
p0 137 ± 1.07
160
150
140
130
120
pull
Entries 88
Mean −415.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.002728
Std Dev 0.612
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

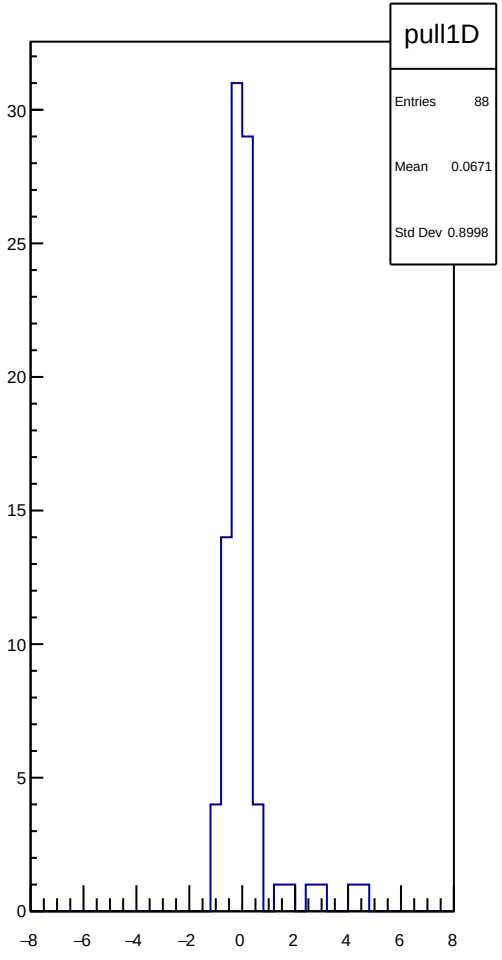

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 101.5 / 87
p0 −0.1518 ± 0.05662
pull
Entries 88
Mean 416.2
Std Dev 0
pull1D
Entries 88
Mean −0.06561
Std Dev 1.072

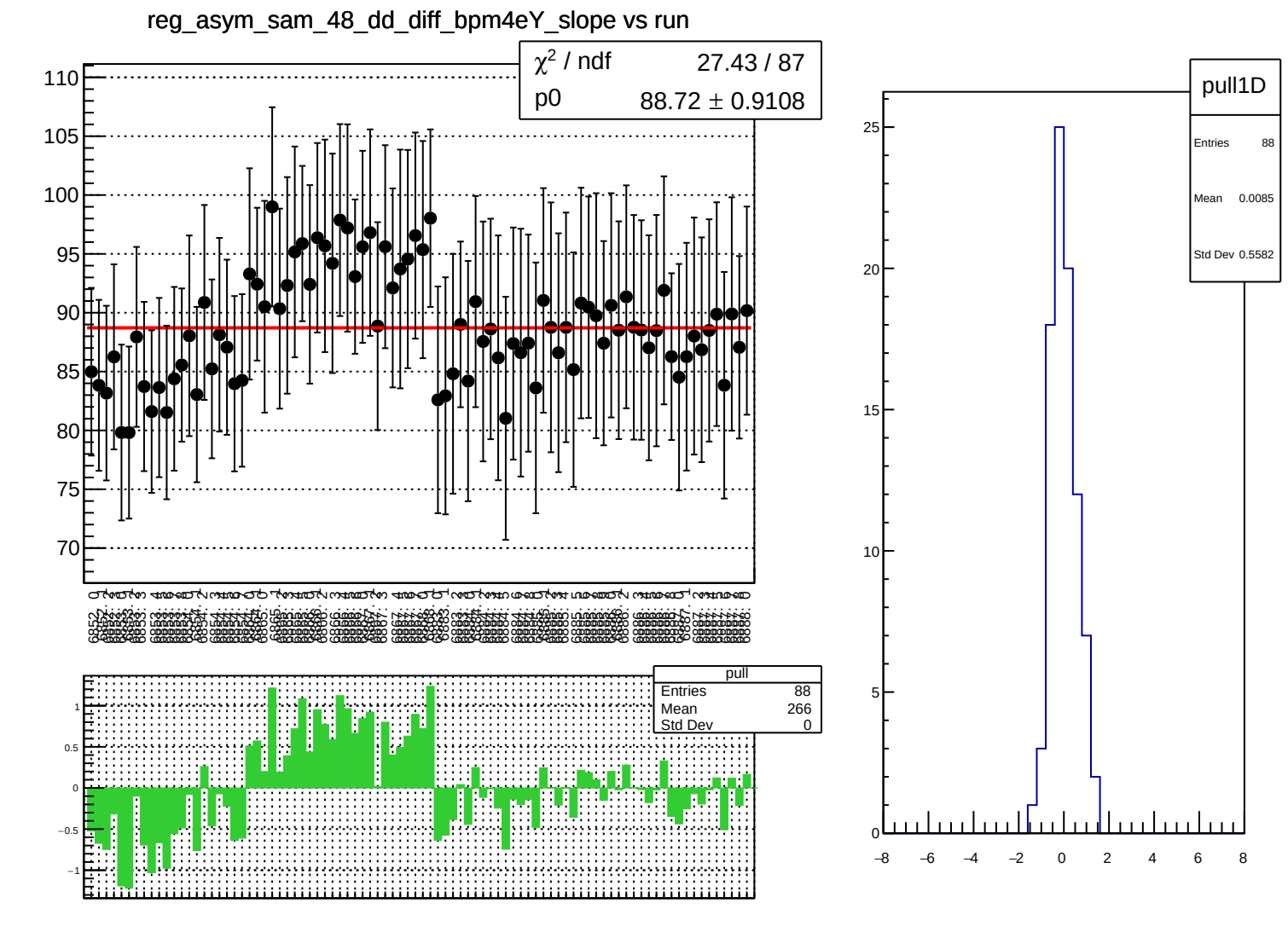

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 99.41 / 87
p0 −25.42 ± 1.284
0
−20
−40
−60
−80
−100
pull
Entries 88
Mean 69.25
Std Dev 0
1
0
−1
−2
−3
−4
−5

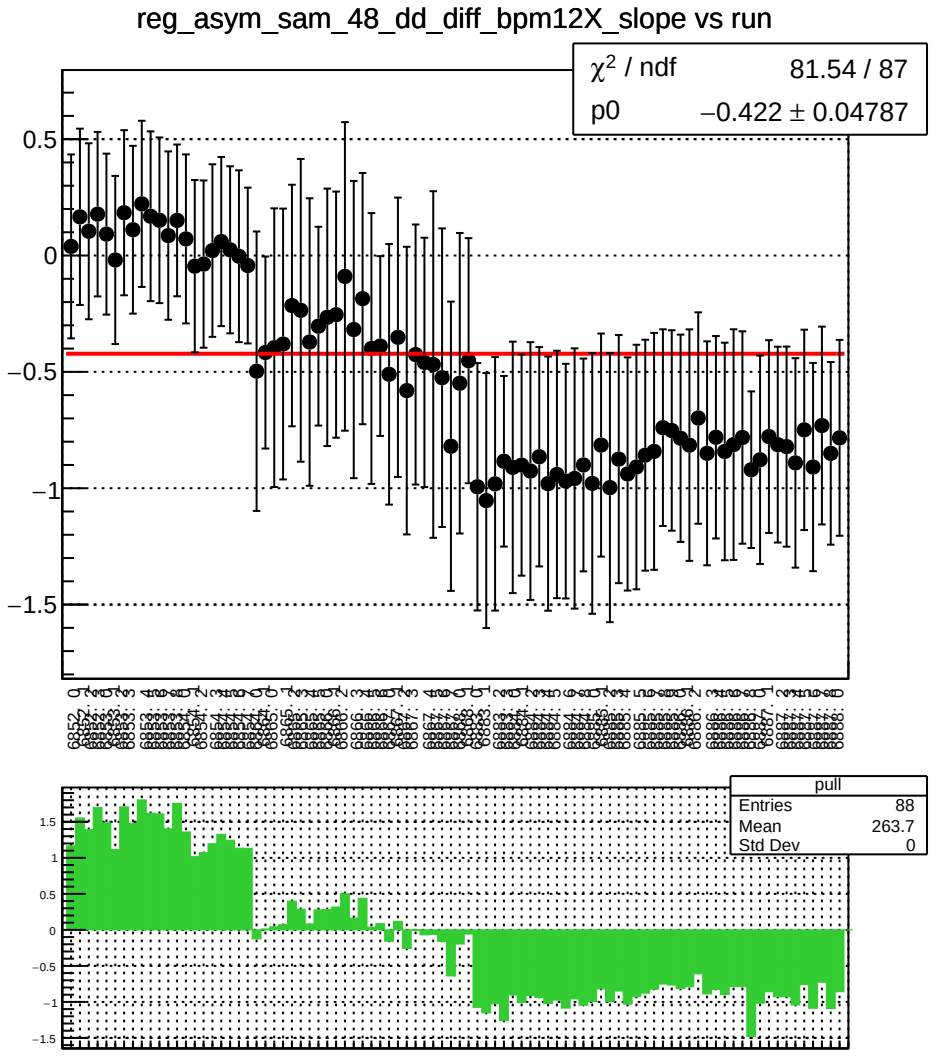

pull1D
Entries 88
Mean −0.07912
Std Dev 1.06
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

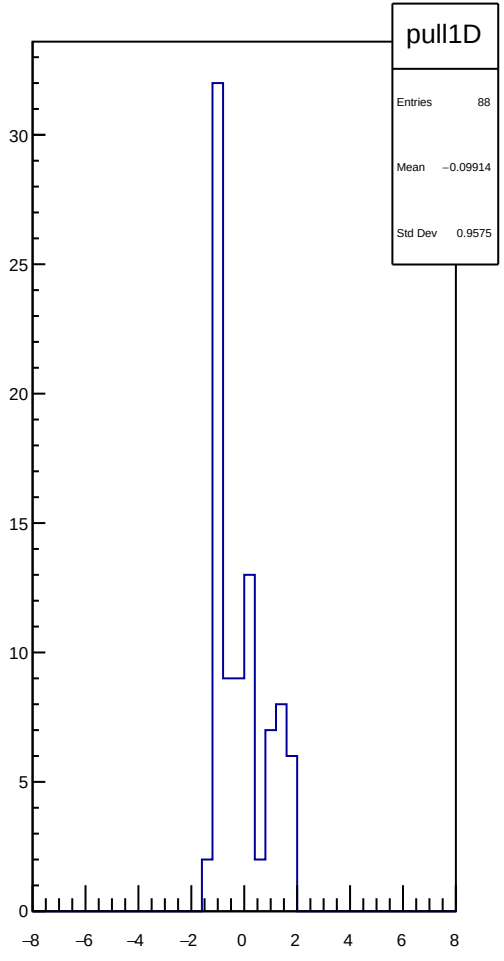

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.89 / 87
p0 27.32 ± 0.7164
40
35
30
25
20
15
pull
Entries 88
Mean −155.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.009574
Std Dev 0.4986
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

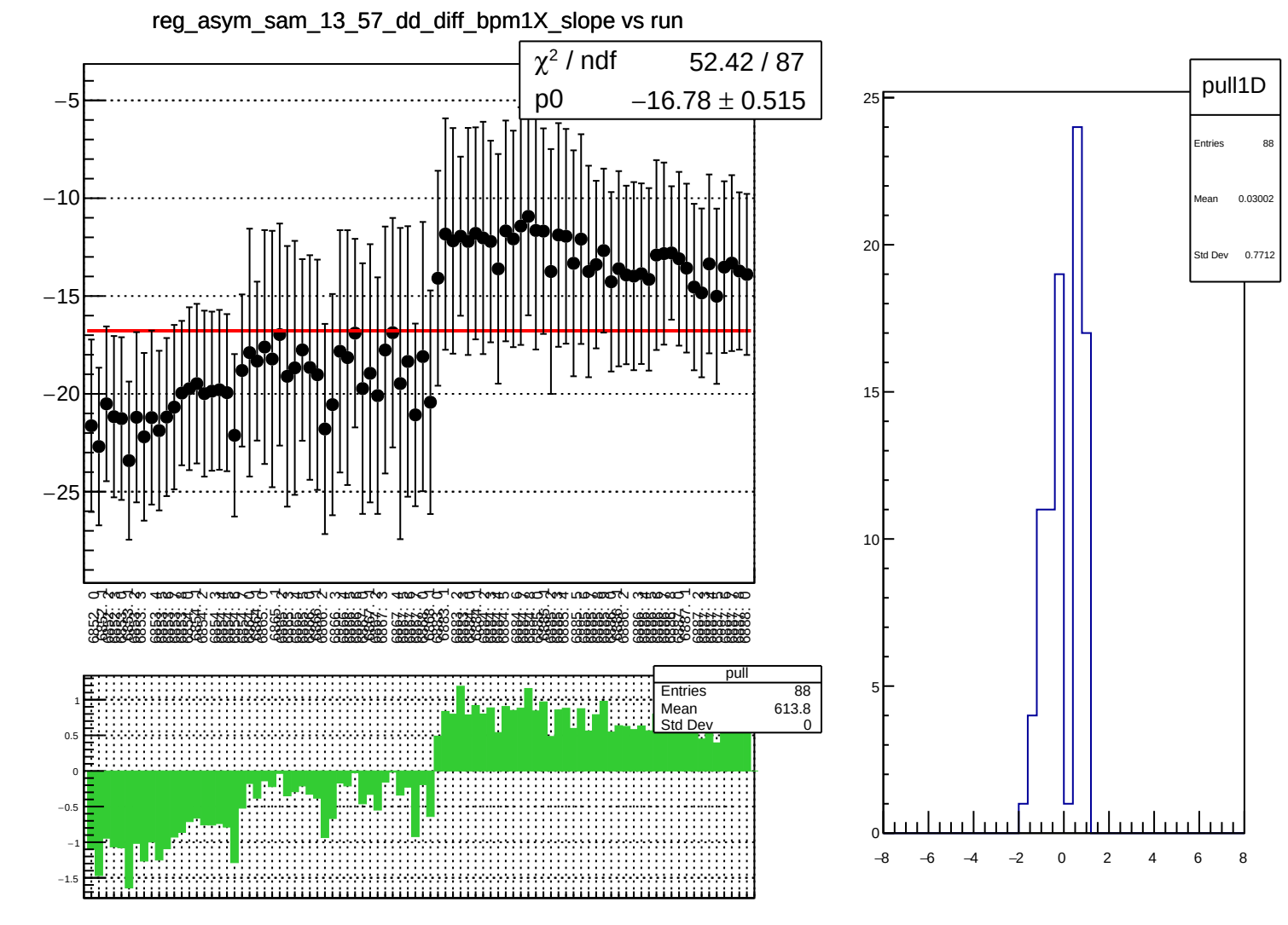

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.64 / 87
p0 −56.01± 1.222
pull
Entries 88
Mean 61.03
Std Dev 0

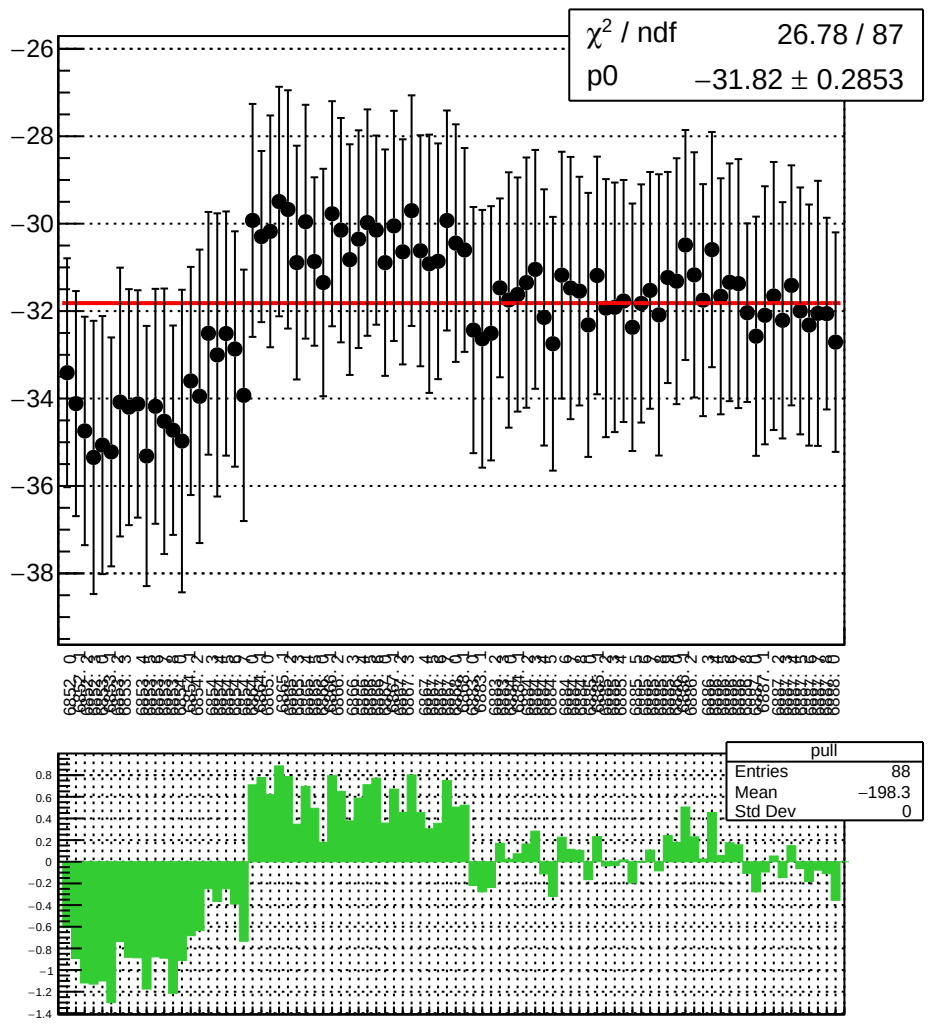

pull1D
Entries 88
Mean 0.0671
Std Dev 0.8998

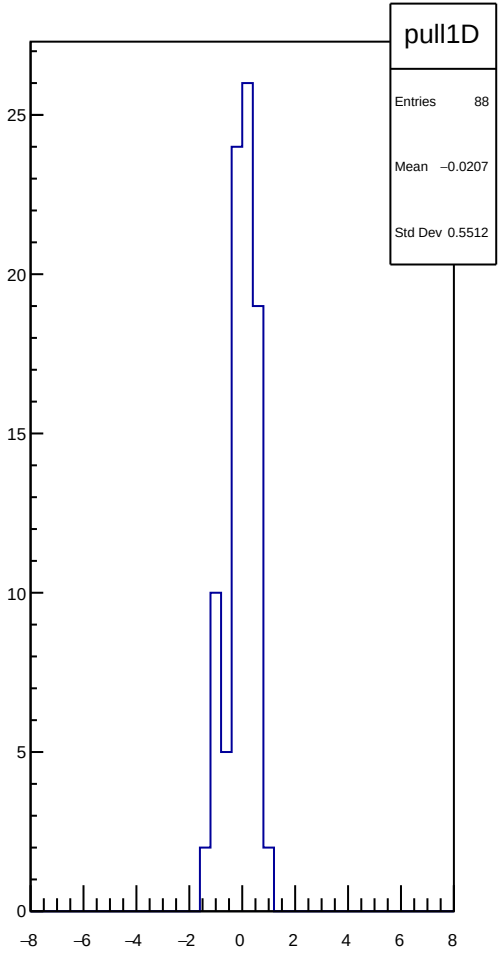

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.43 / 87
p0 88.72 ± 0.9108
110
105
100
95
90
85
80
75
70
pull
Entries 88
Mean 266
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.0085
Std Dev 0.5582
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

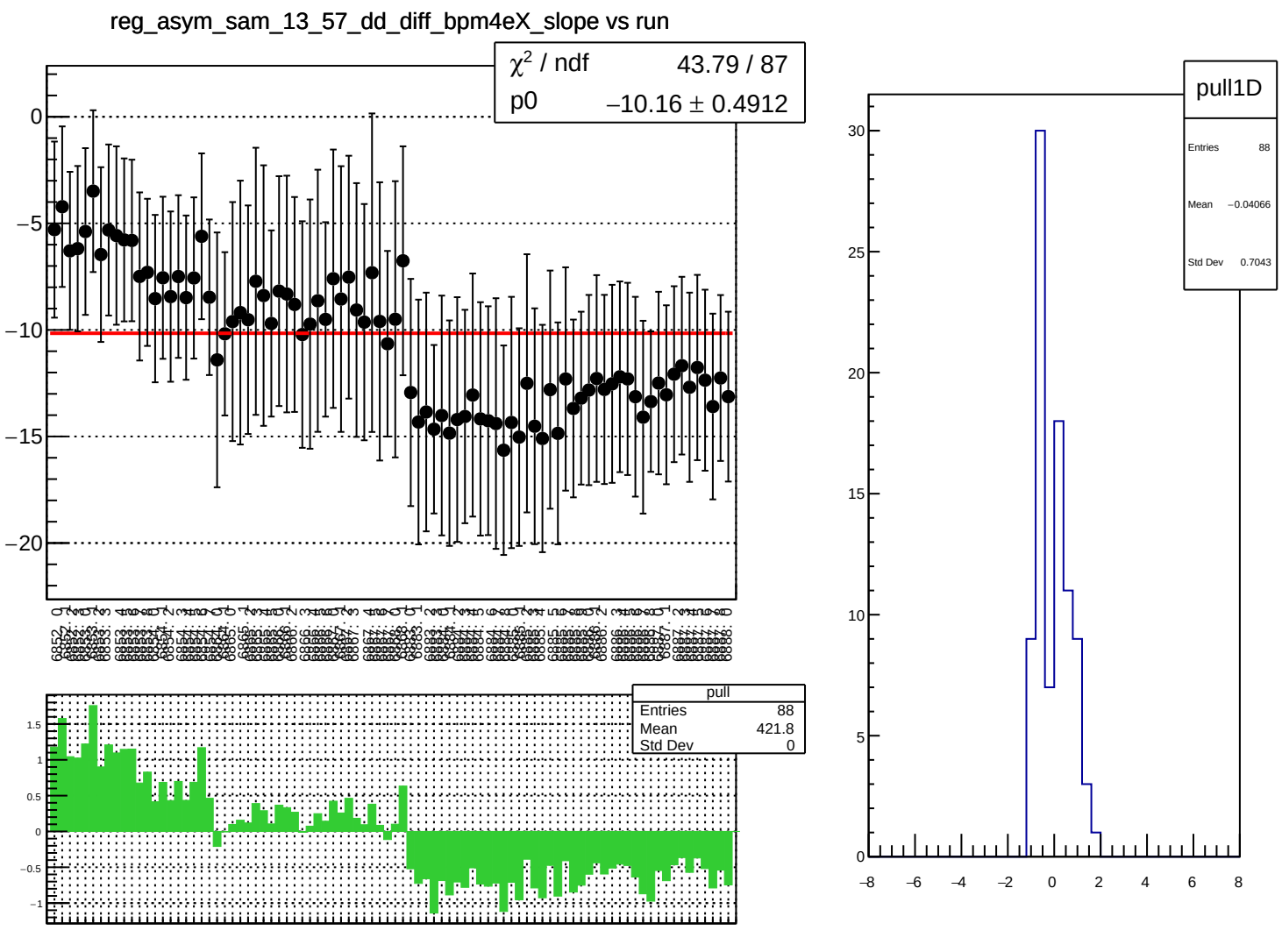

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 81.54 / 87
p0 −0.422 ± 0.04787
0.5
0
−0.5
−1
−1.5
pull
Entries 88
Mean 263.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

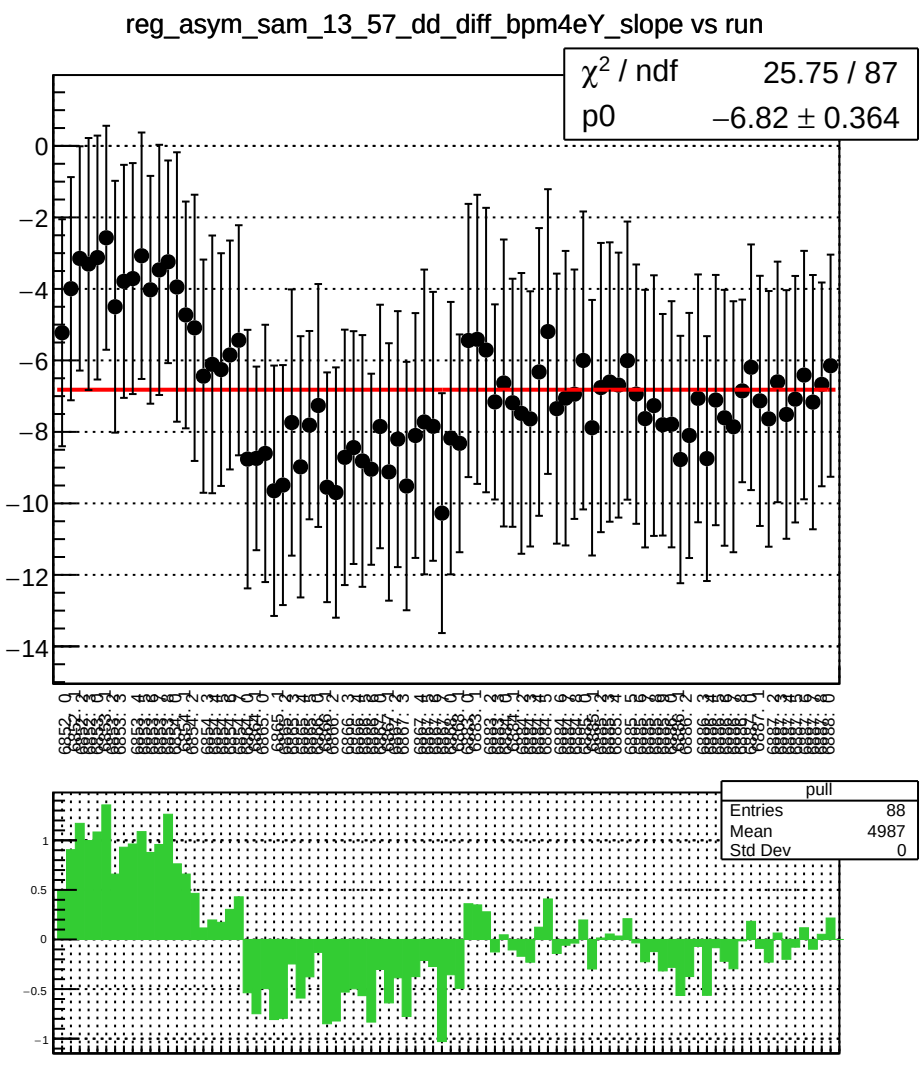

pull1D
Entries 88
Mean −0.09914
Std Dev 0.9575
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

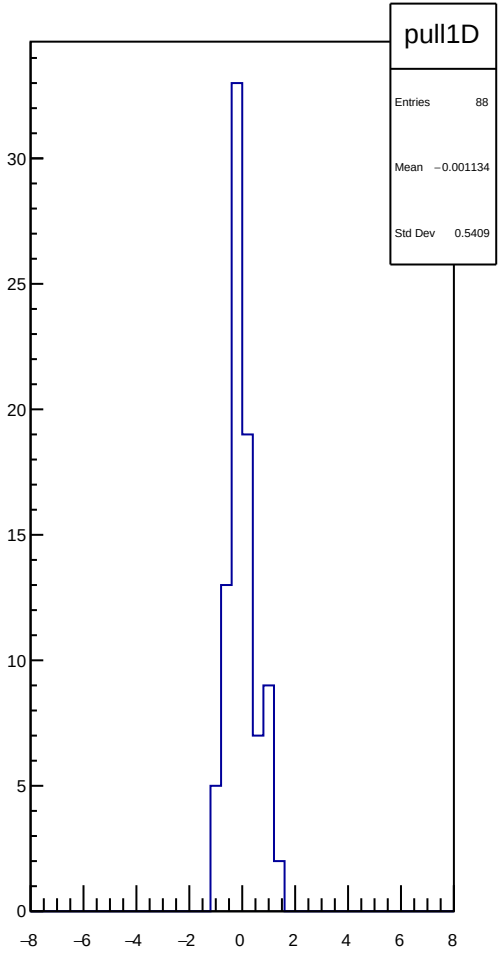

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 52.42 / 87
p0 −16.78 ± 0.515
−5
−10
−15
−20
−25
pull
Entries 88
Mean 613.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean 0.03002
Std Dev 0.7712
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

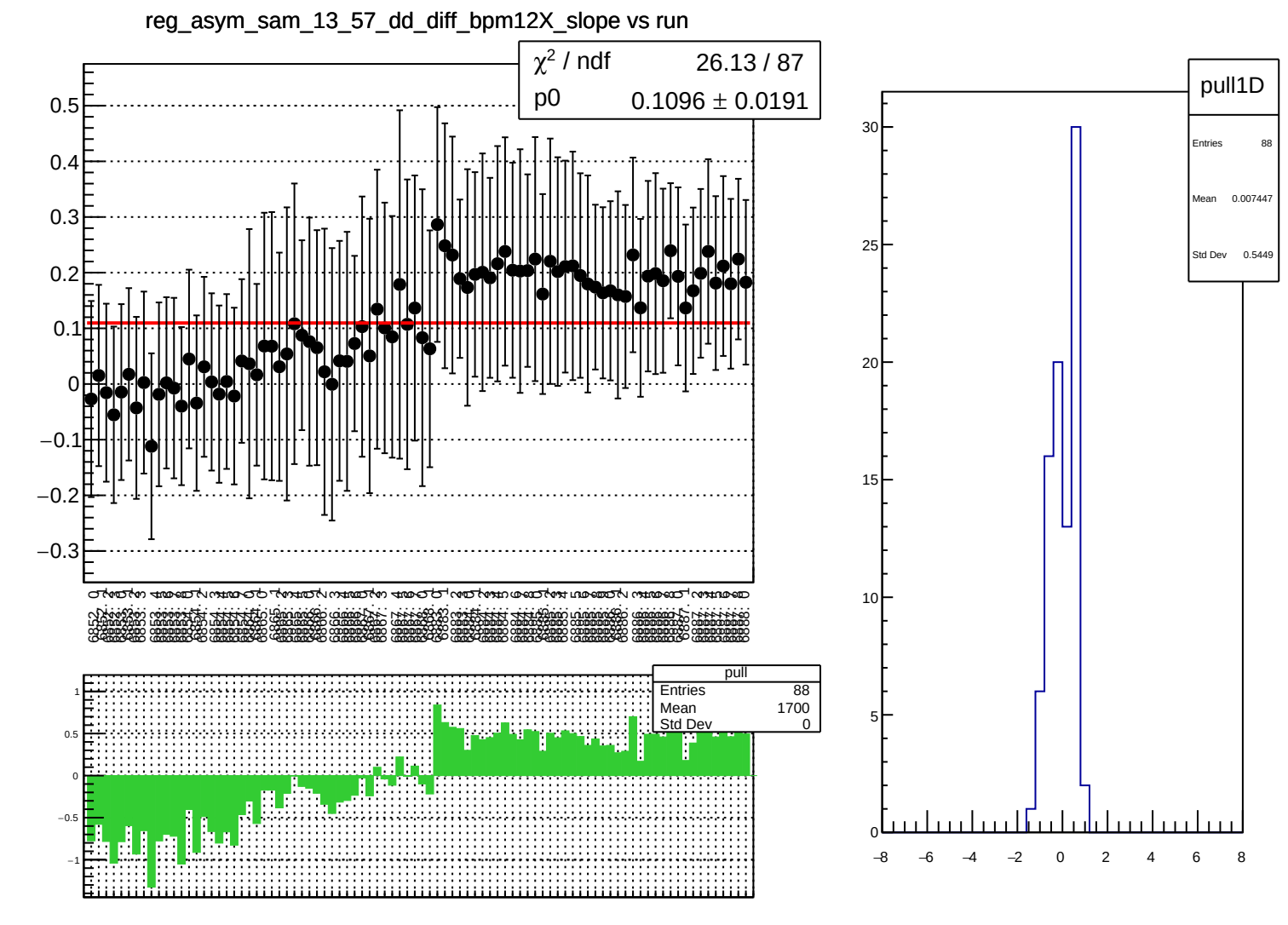

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.78 / 87
p0 −31.82 ± 0.2853
−26
−28
−30
−32
−34
−36
−38
pull
Entries 88
Mean −198.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

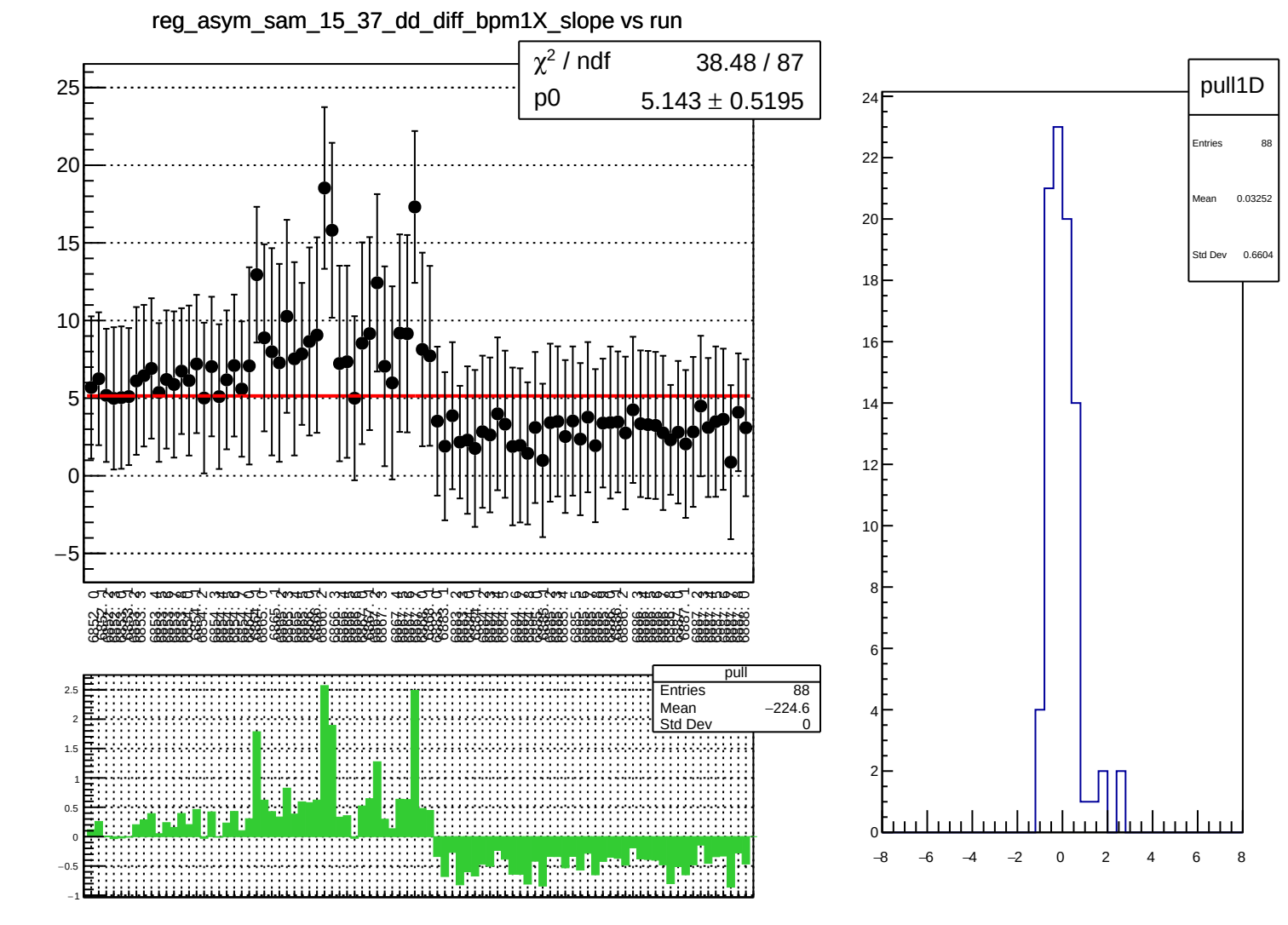

pull1D
Entries 88
Mean −0.0207
Std Dev 0.5512
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

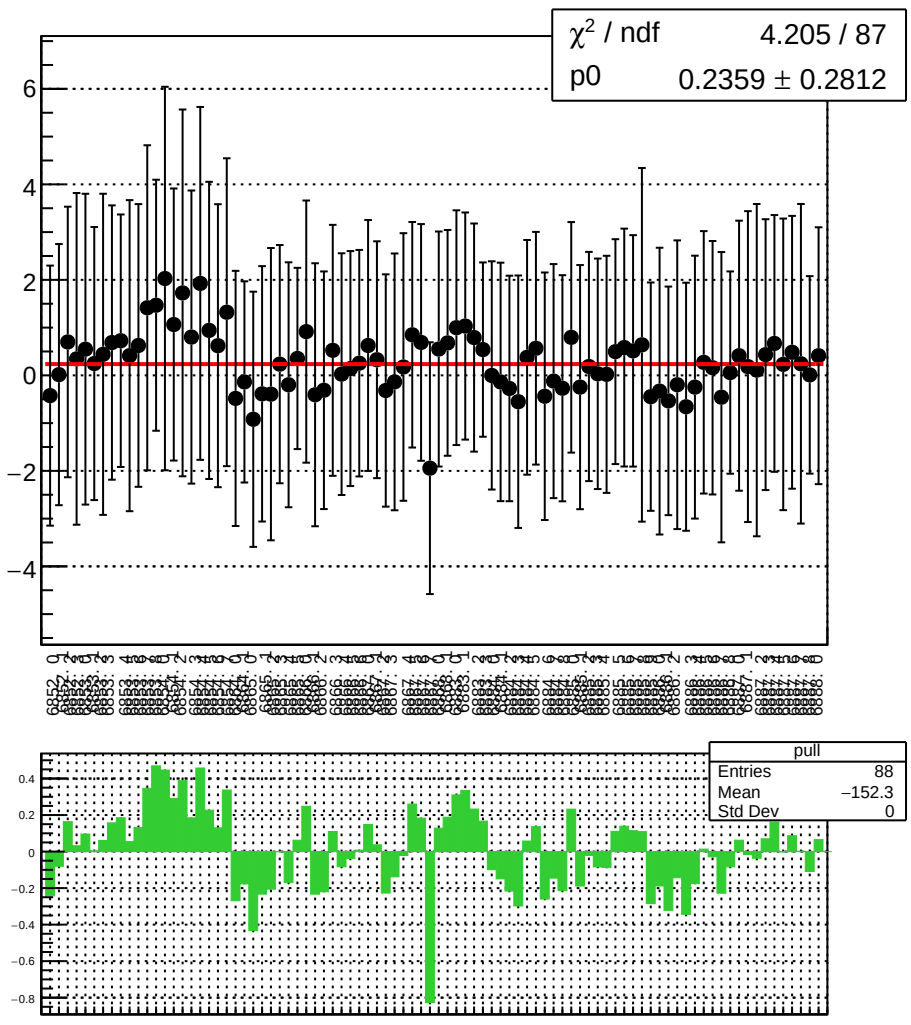

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.79 / 87
p0 −10.16 ± 0.4912
pull
Entries 88
Mean 421.8
Std Dev 0
pull1D
Entries 88
Mean −0.04066
Std Dev 0.7043

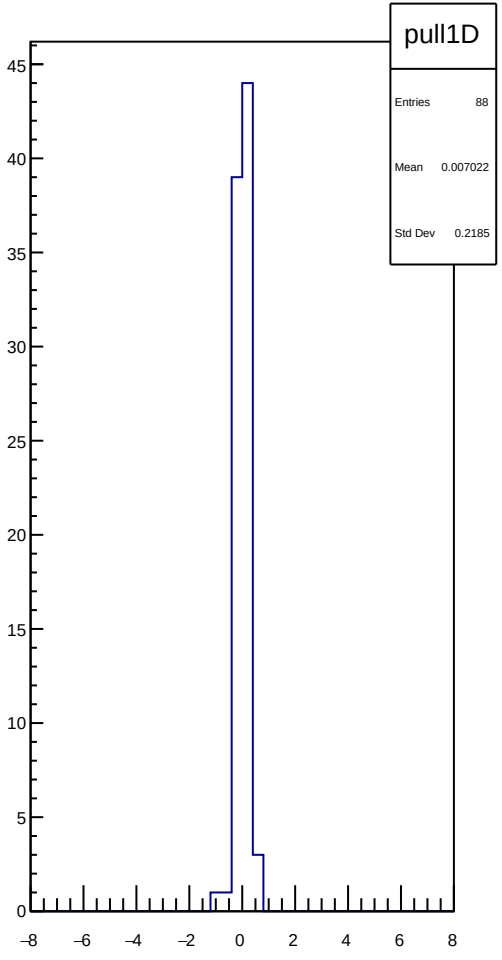

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.75 / 87
p0 −6.82 ± 0.364
pull
Entries 88
Mean 4987
Std Dev 0

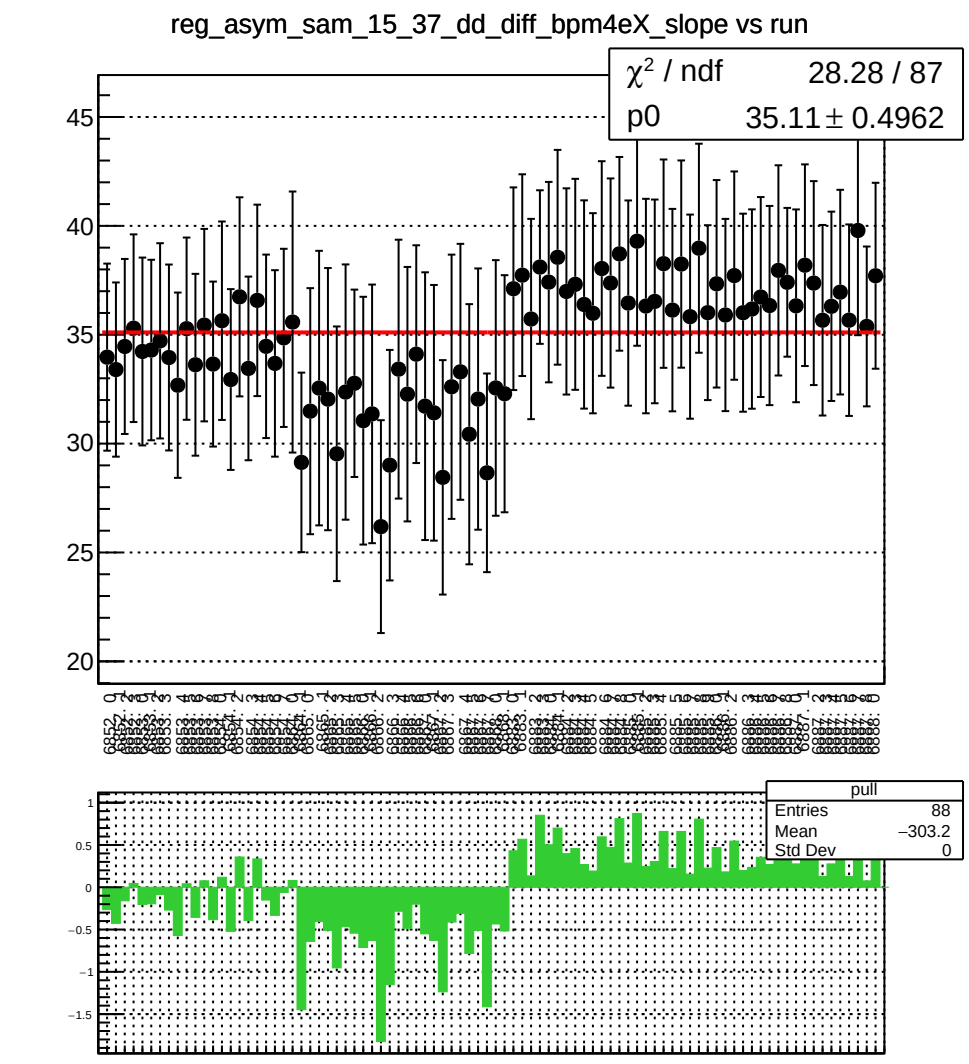

pull1D
Entries 88
Mean −0.001134
Std Dev 0.5409

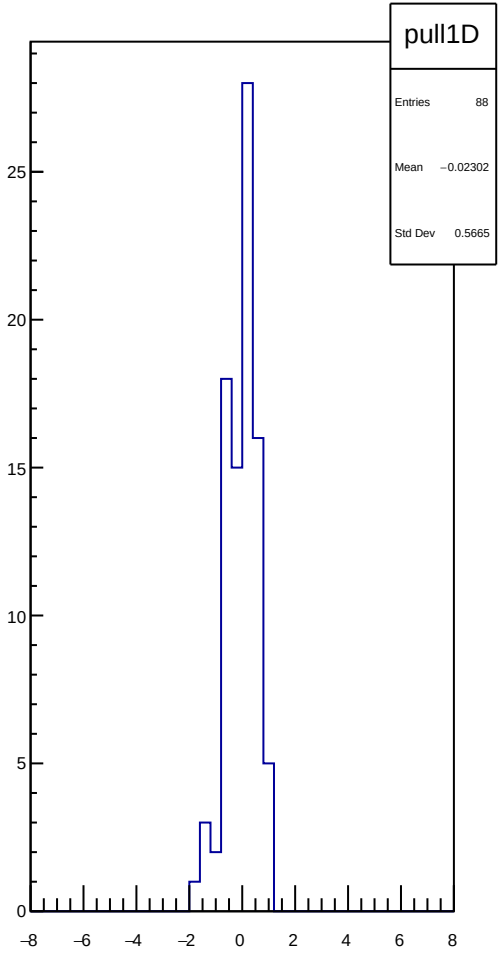

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 26.13 / 87
p0 0.1096 ± 0.0191
pull
Entries 88
Mean 1700
Std Dev 0
pull1D
Entries 88
Mean 0.007447
Std Dev 0.5449

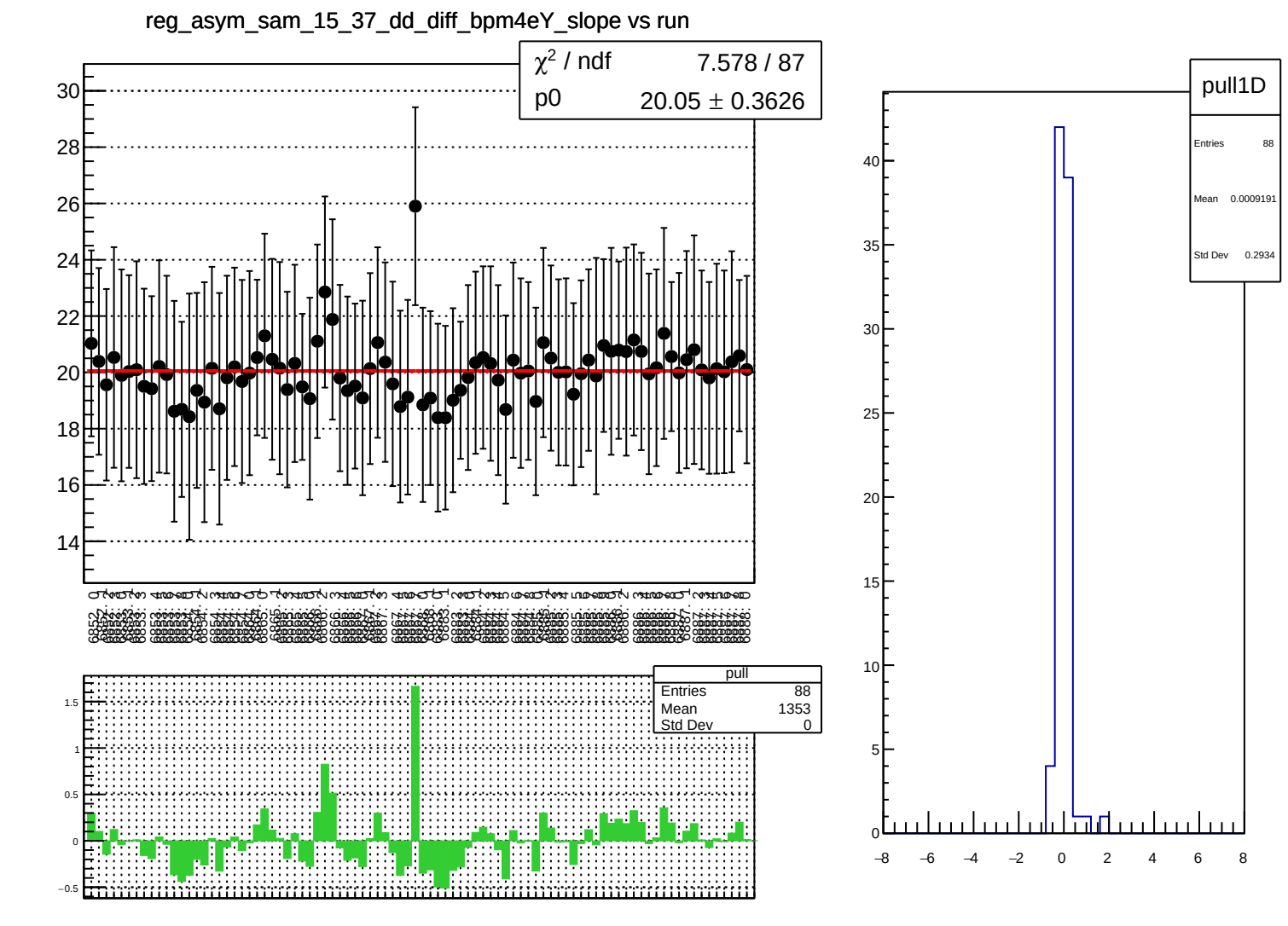

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 38.48 / 87
p0 5.143 ± 0.5195
pull
Entries 88
Mean −224.6
Std Dev 0
pull1D
Entries 88
Mean 0.03252
Std Dev 0.6604

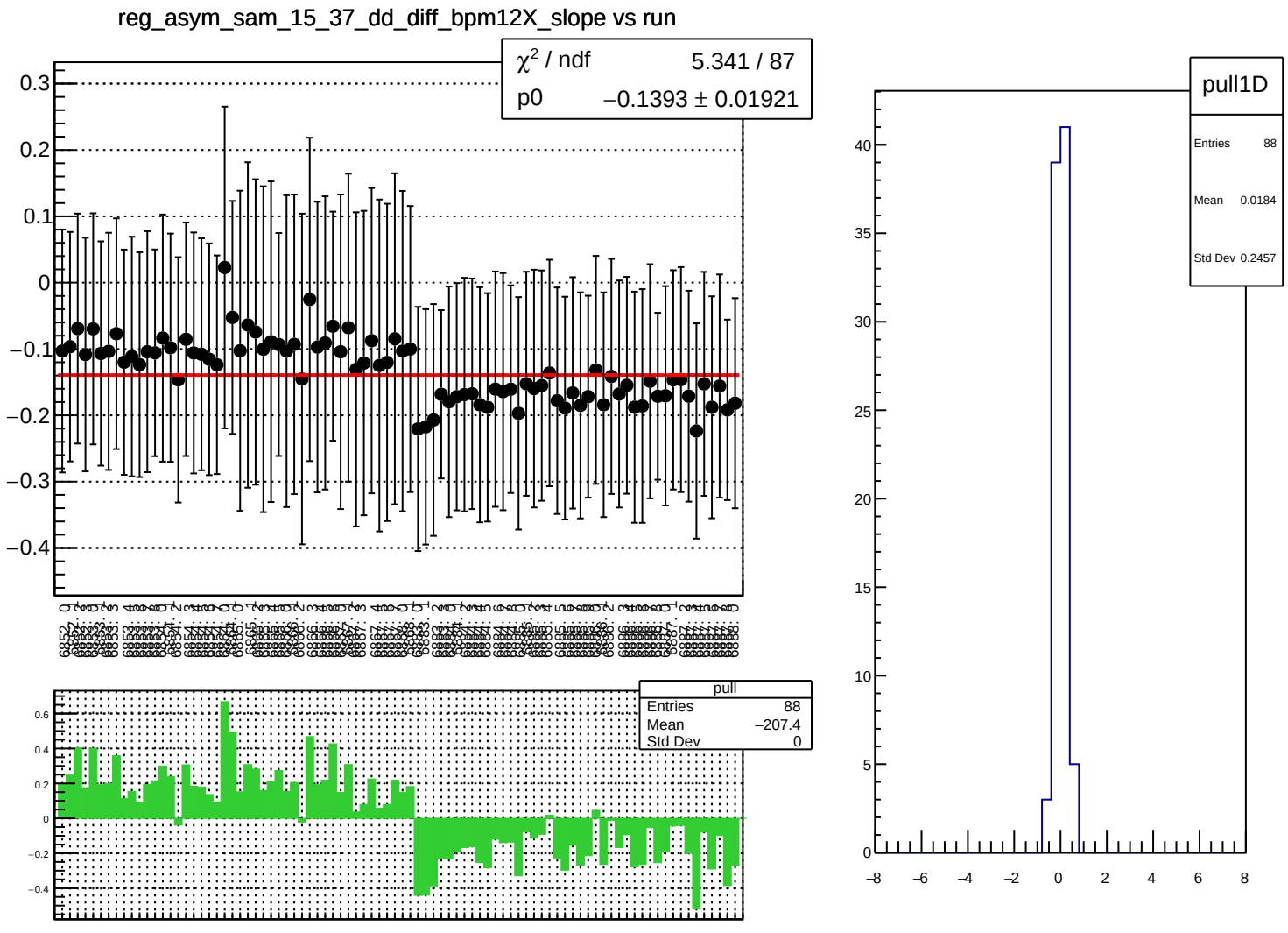

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.205 / 87
p0 0.2359 ± 0.2812
pull
Entries 88
Mean −152.3
Std Dev 0

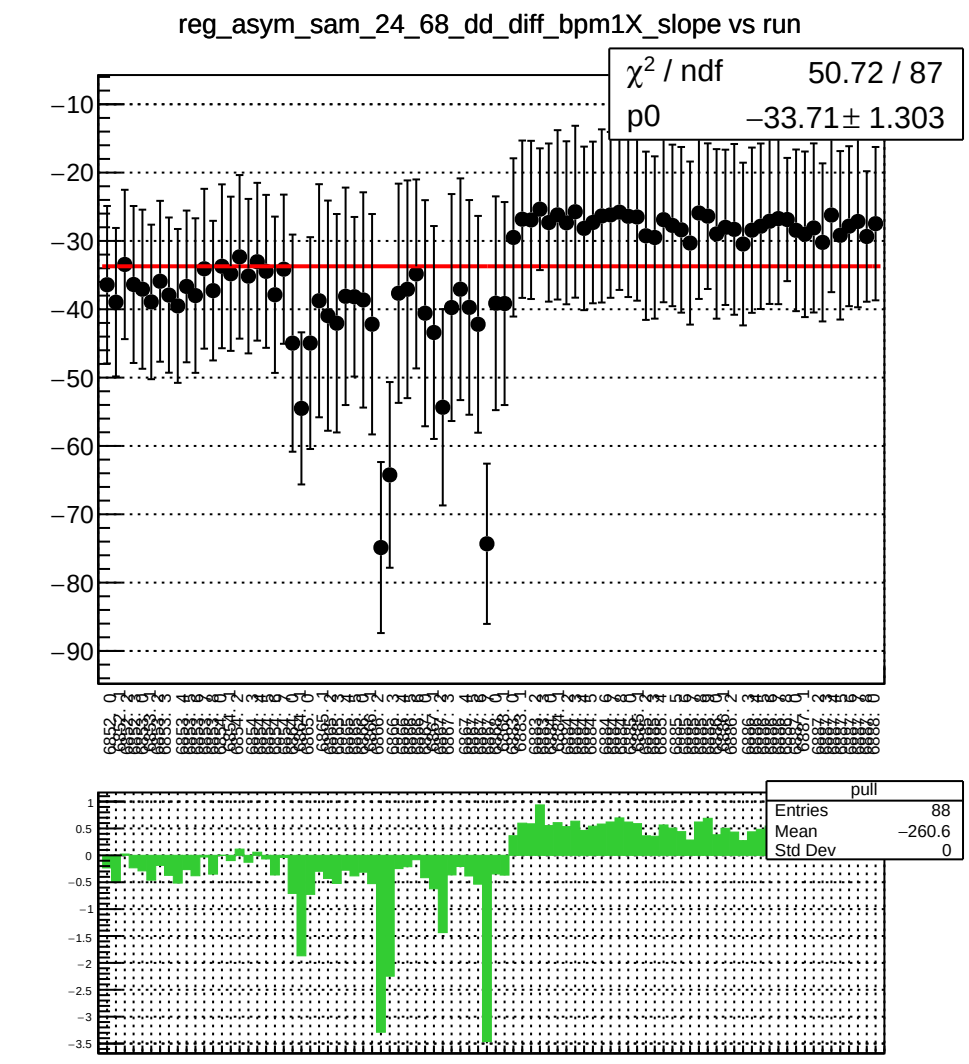

pull1D
Entries 88
Mean 0.007022
Std Dev 0.2185

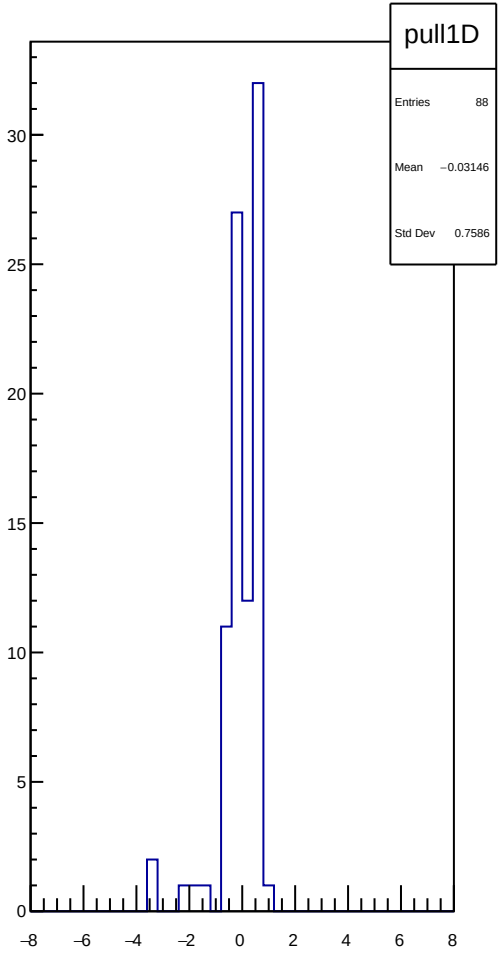

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 28.28 / 87
p0 35.11 ± 0.4962
45
40
35
30
25
20
pull
Entries 88
Mean −303.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

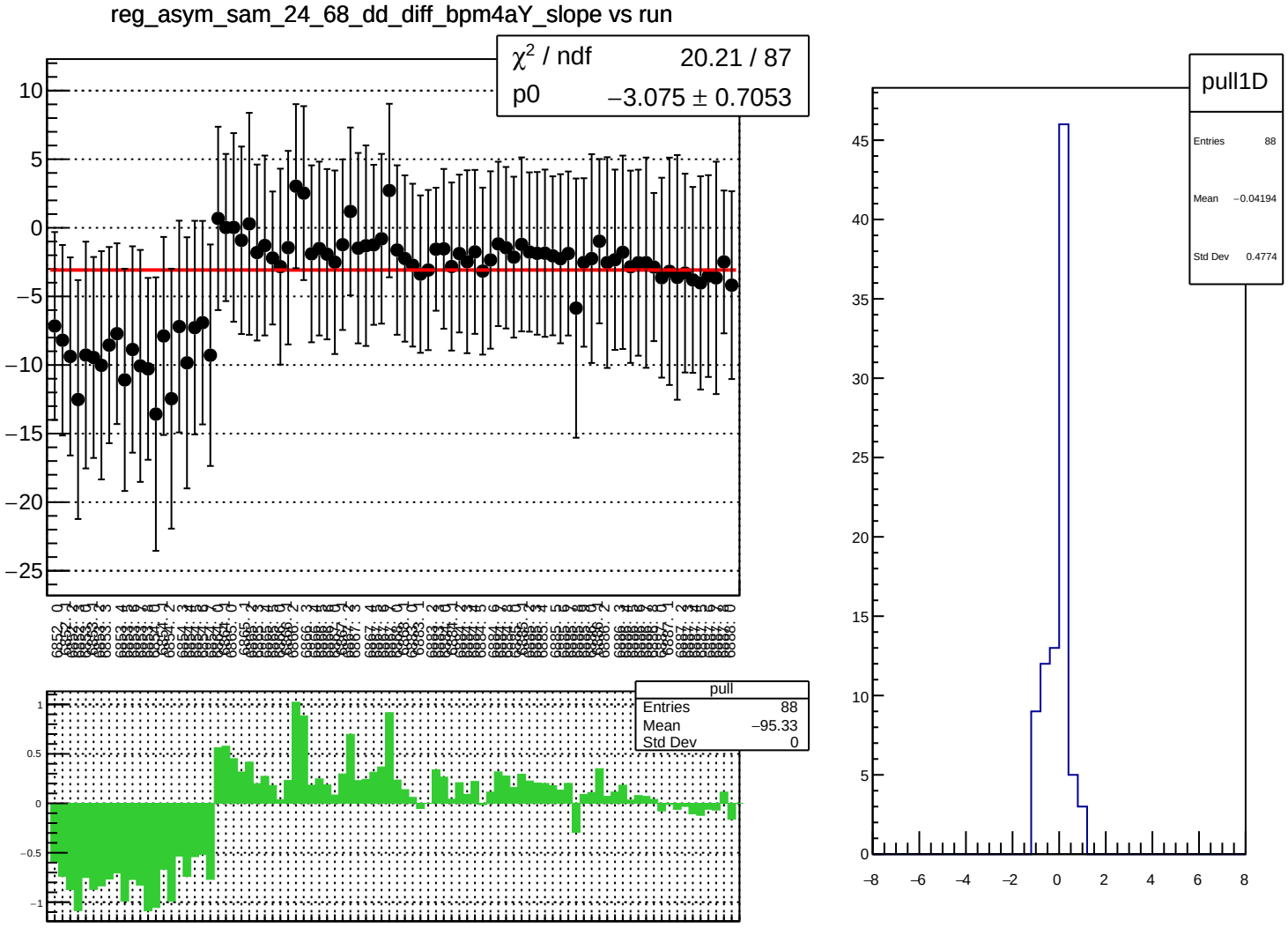

pull1D
Entries 88
Mean −0.02302
Std Dev 0.5665
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

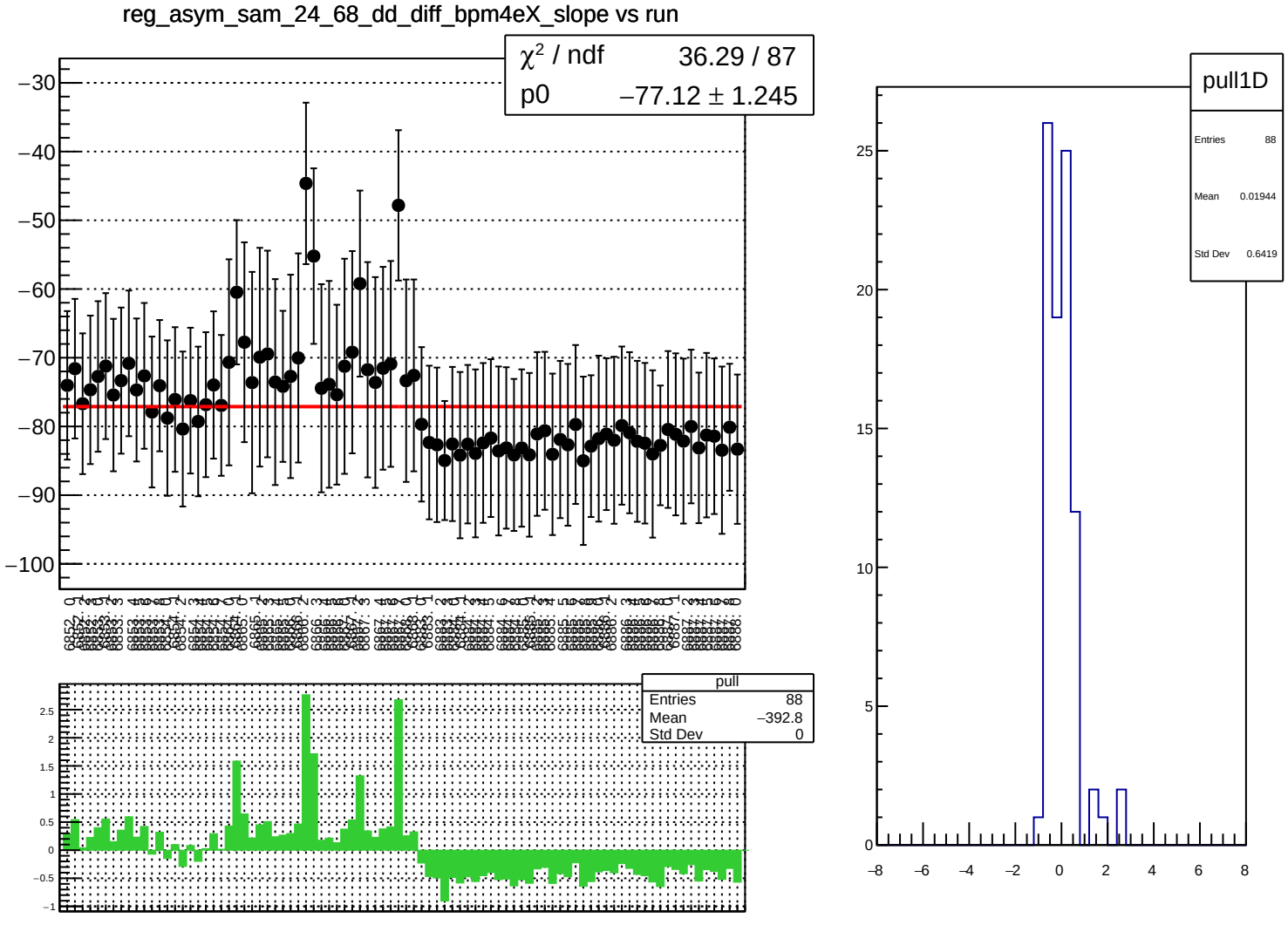

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.578 / 87
p0 20.05 ± 0.3626
pull
Entries 88
Mean 1353
Std Dev 0
pull1D
Entries 88
Mean 0.0009191
Std Dev 0.2934

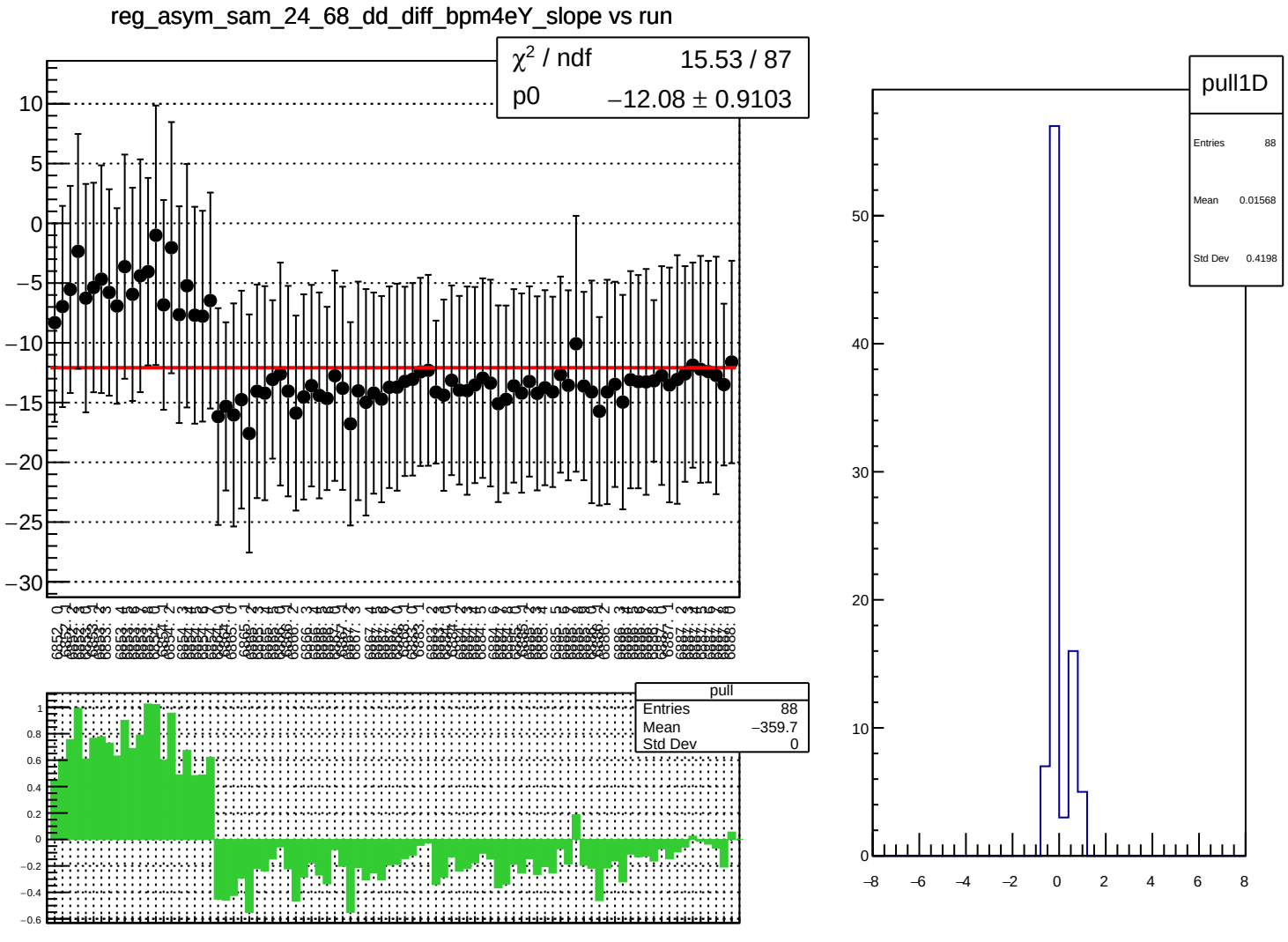

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 5.341 / 87
p0 −0.1393 ± 0.01921
pull
Entries 88
Mean −207.4
Std Dev 0
pull1D
Entries 88
Mean 0.0184
Std Dev 0.2457

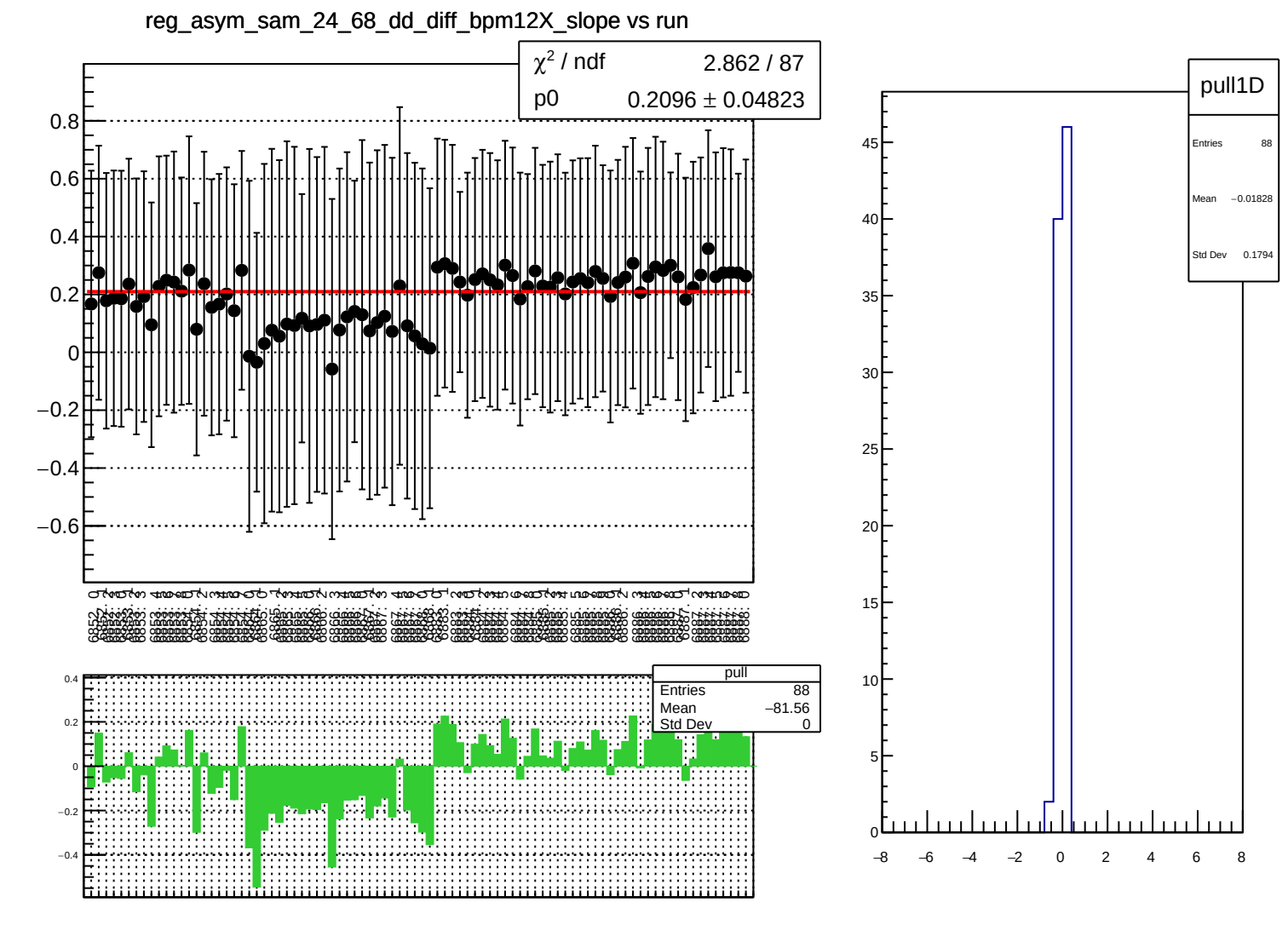

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 50.72 / 87
p0 −33.71 ± 1.303
pull
Entries 88
Mean −260.6
Std Dev 0

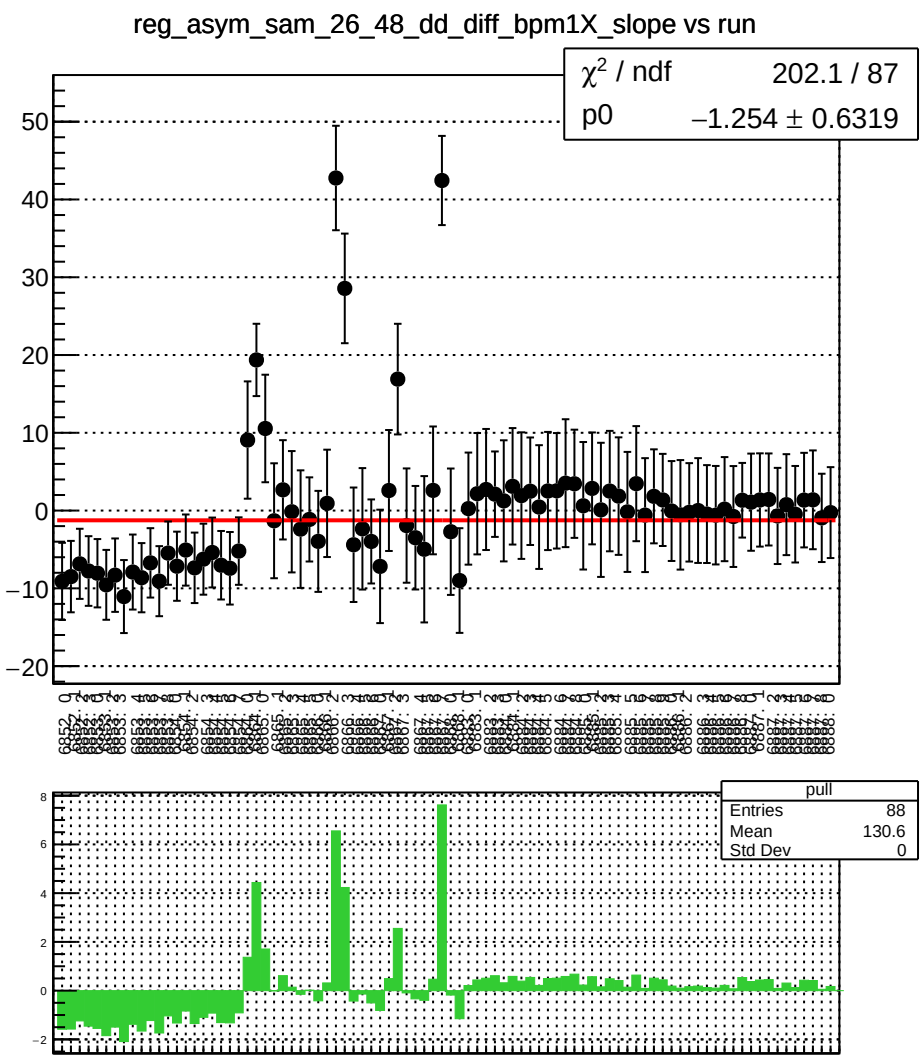

pull1D
Entries 88
Mean −0.03146
Std Dev 0.7586

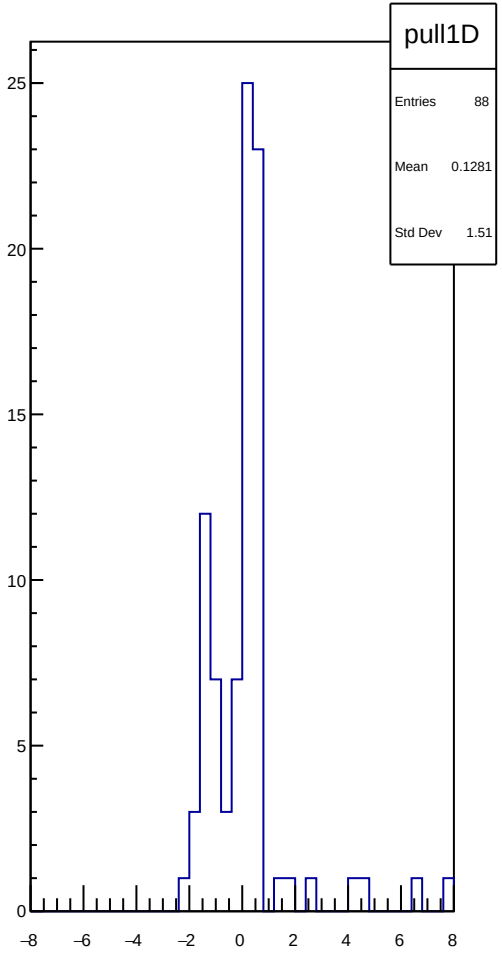

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.21 / 87
p0 −3.075 ± 0.7053
pull
Entries 88
Mean −95.33
Std Dev 0
pull1D
Entries 88
Mean −0.04194
Std Dev 0.4774

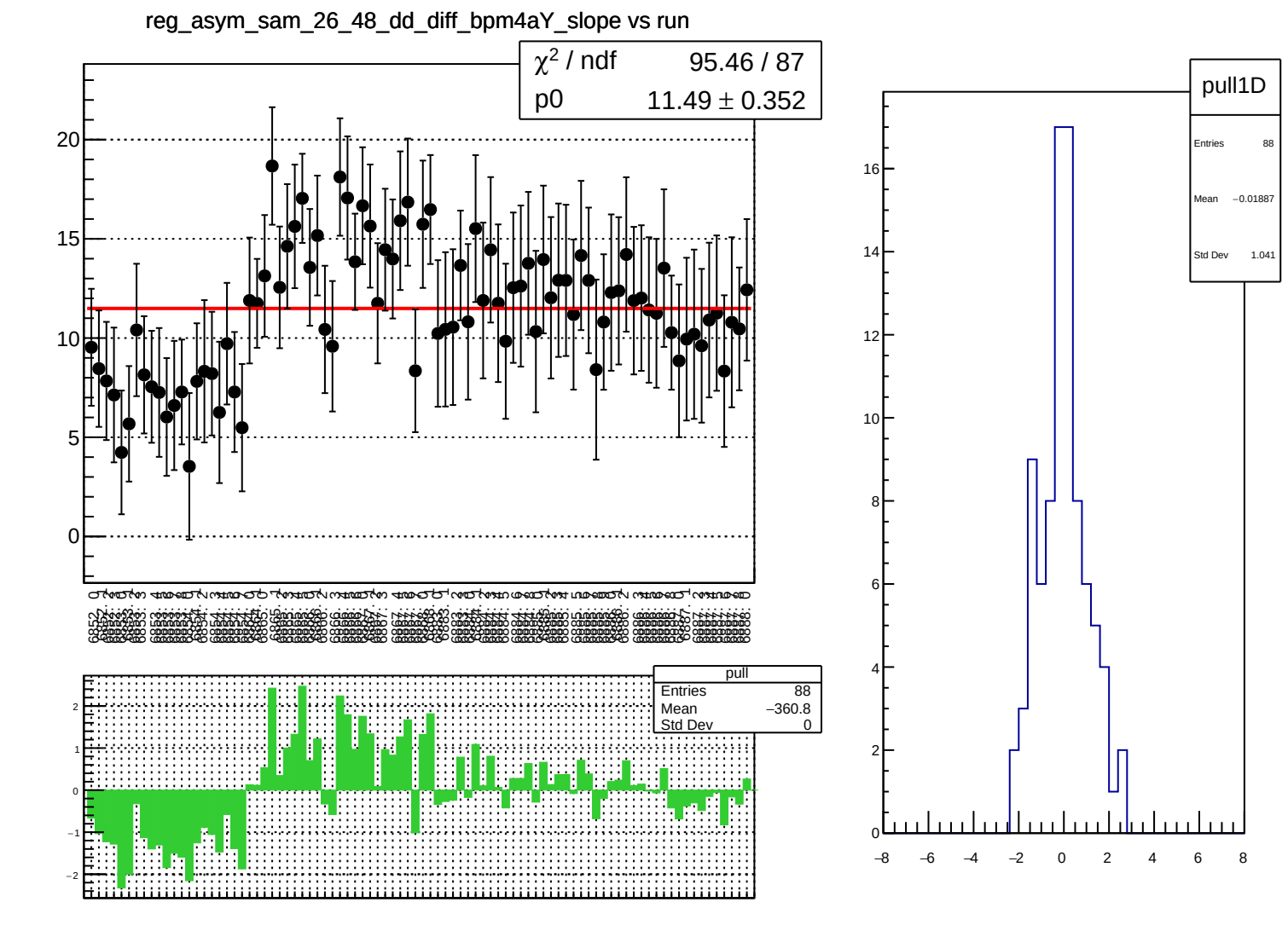

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.29 / 87
p0 −77.12 ± 1.245
pull
Entries 88
Mean −392.8
Std Dev 0
pull1D
Entries 88
Mean 0.01944
Std Dev 0.6419

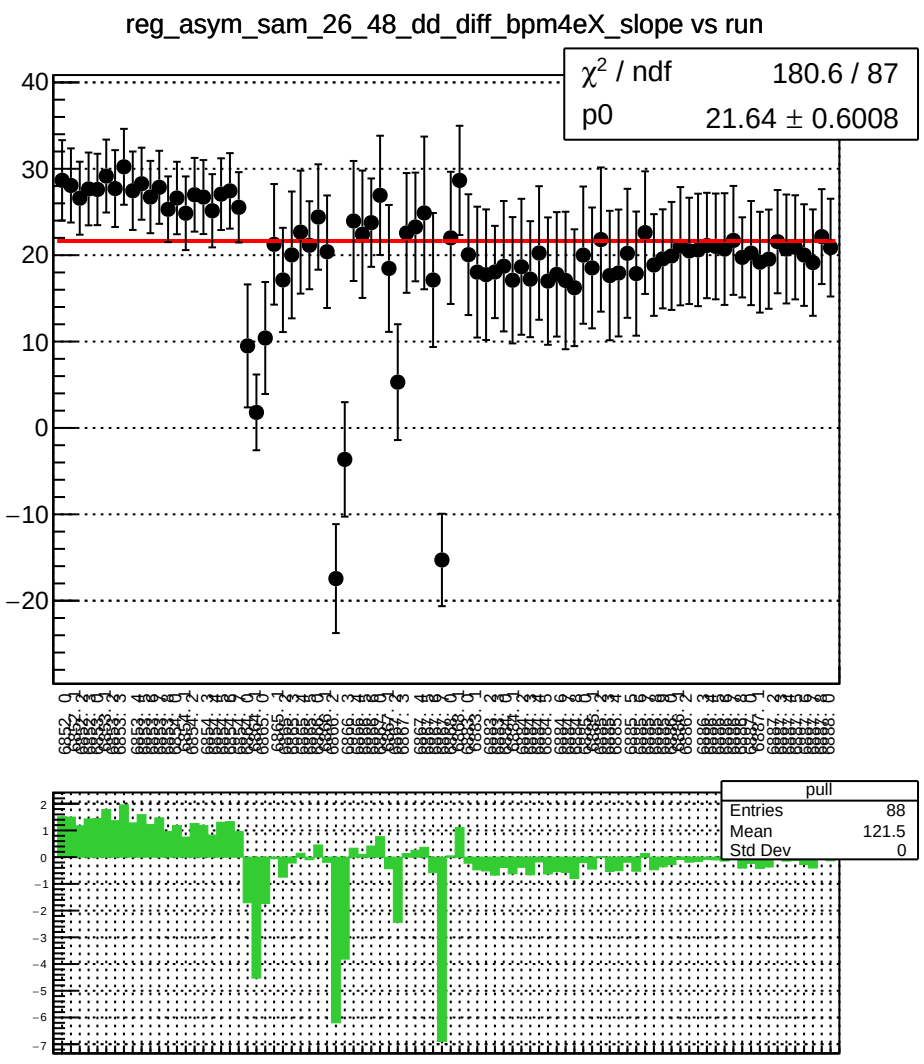

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.53 / 87
p0 −12.08 ± 0.9103
pull
Entries 88
Mean −359.7
Std Dev 0
pull1D
Entries 88
Mean 0.01568
Std Dev 0.4198

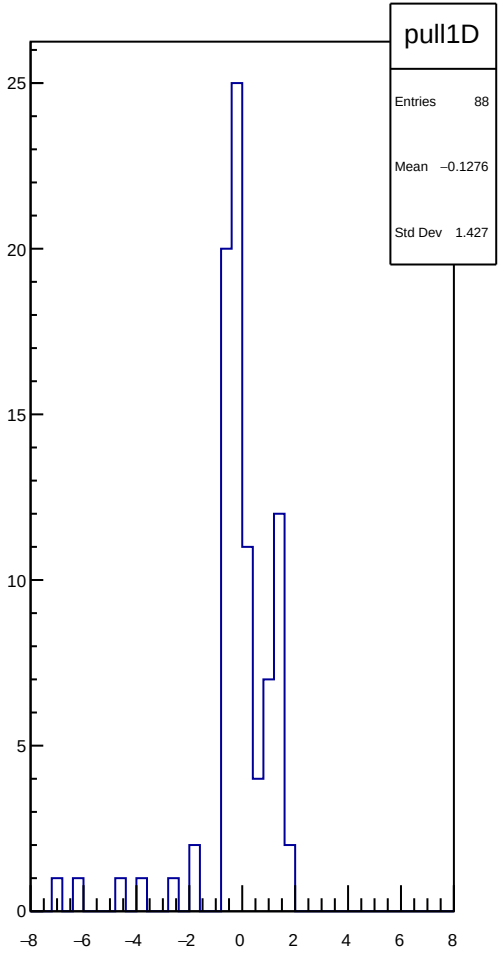

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 2.862 / 87
p0 0.2096 ± 0.04823
pull
Entries 88
Mean −81.56
Std Dev 0
pull1D
Entries 88
Mean −0.01828
Std Dev 0.1794

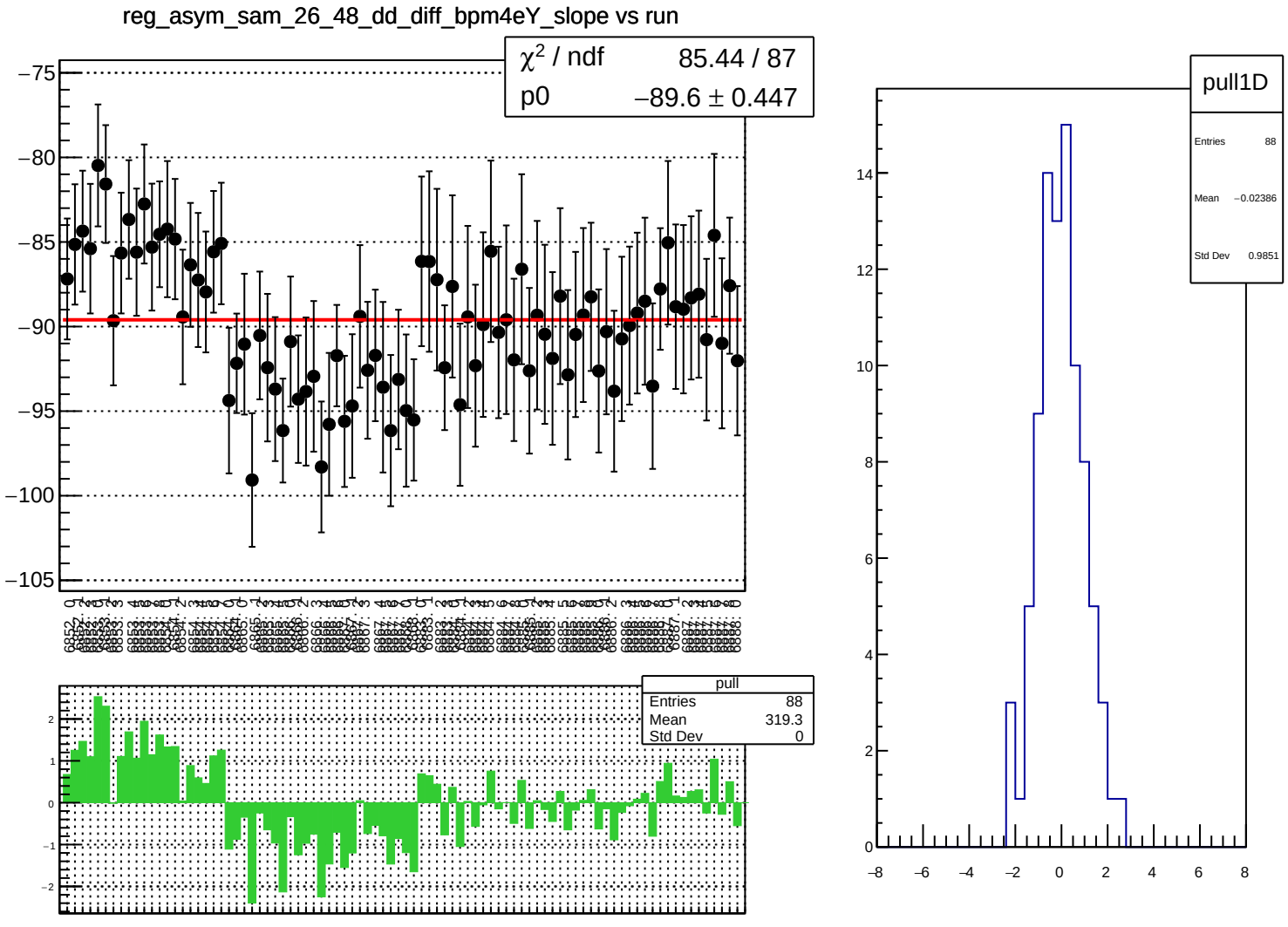

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 202.1 / 87
p0 −1.254 ± 0.6319
pull
Entries 88
Mean 130.6
Std Dev 0

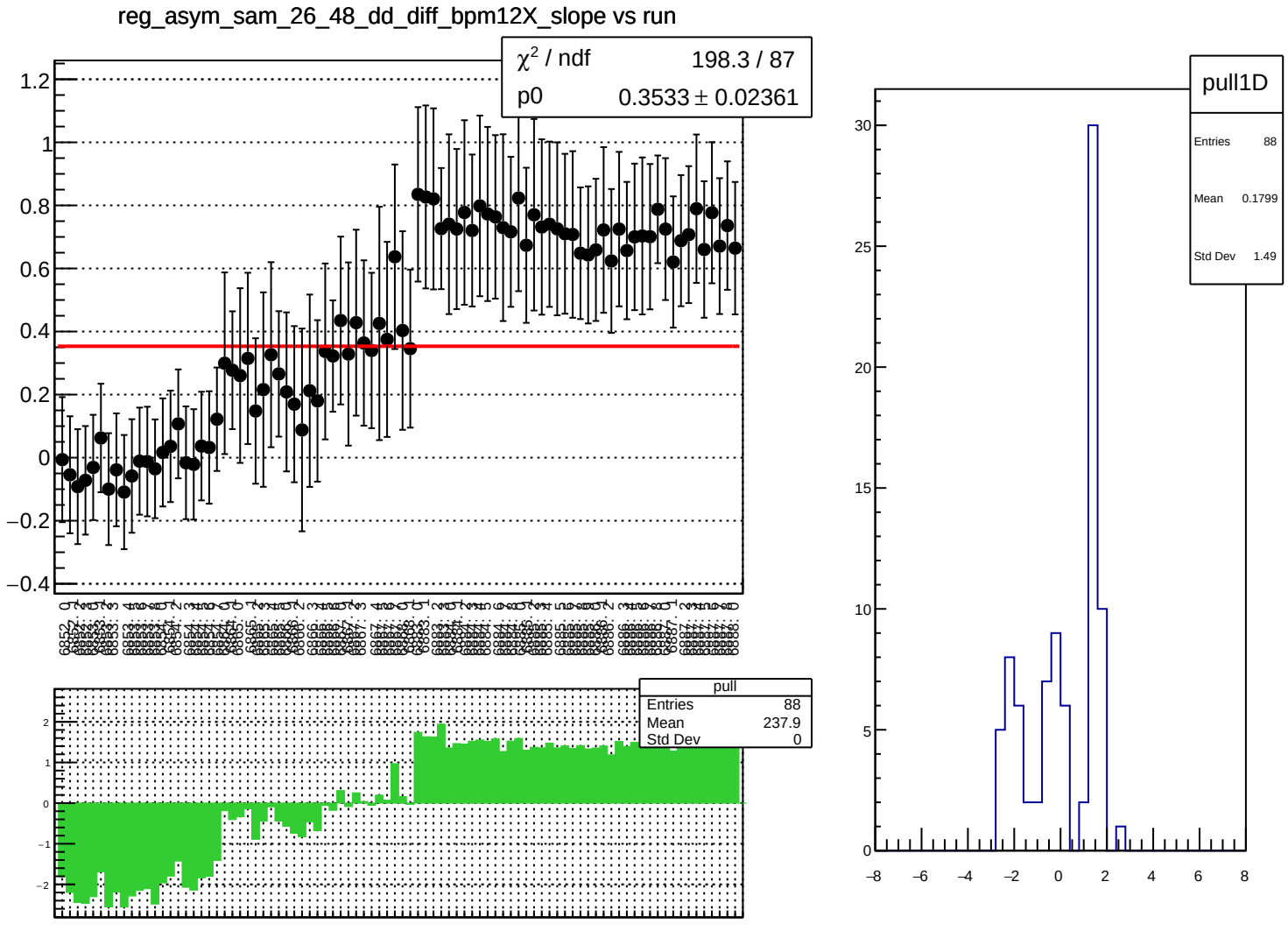

pull1D
Entries 88
Mean 0.1281
Std Dev 1.51

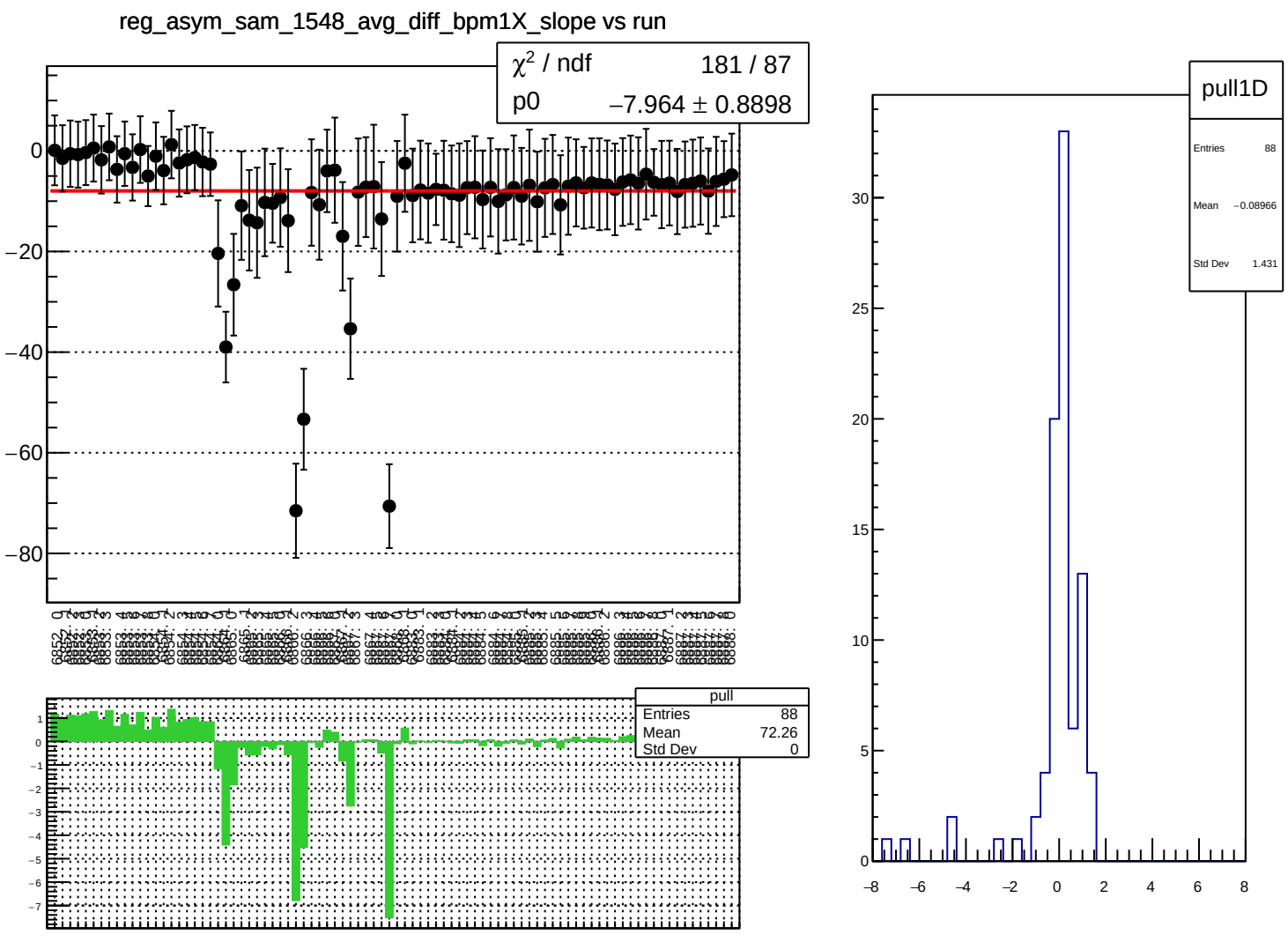

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 95.46 / 87
p0 11.49 ± 0.352
pull
Entries 88
Mean −360.8
Std Dev 0
pull1D
Entries 88
Mean −0.01887
Std Dev 1.041

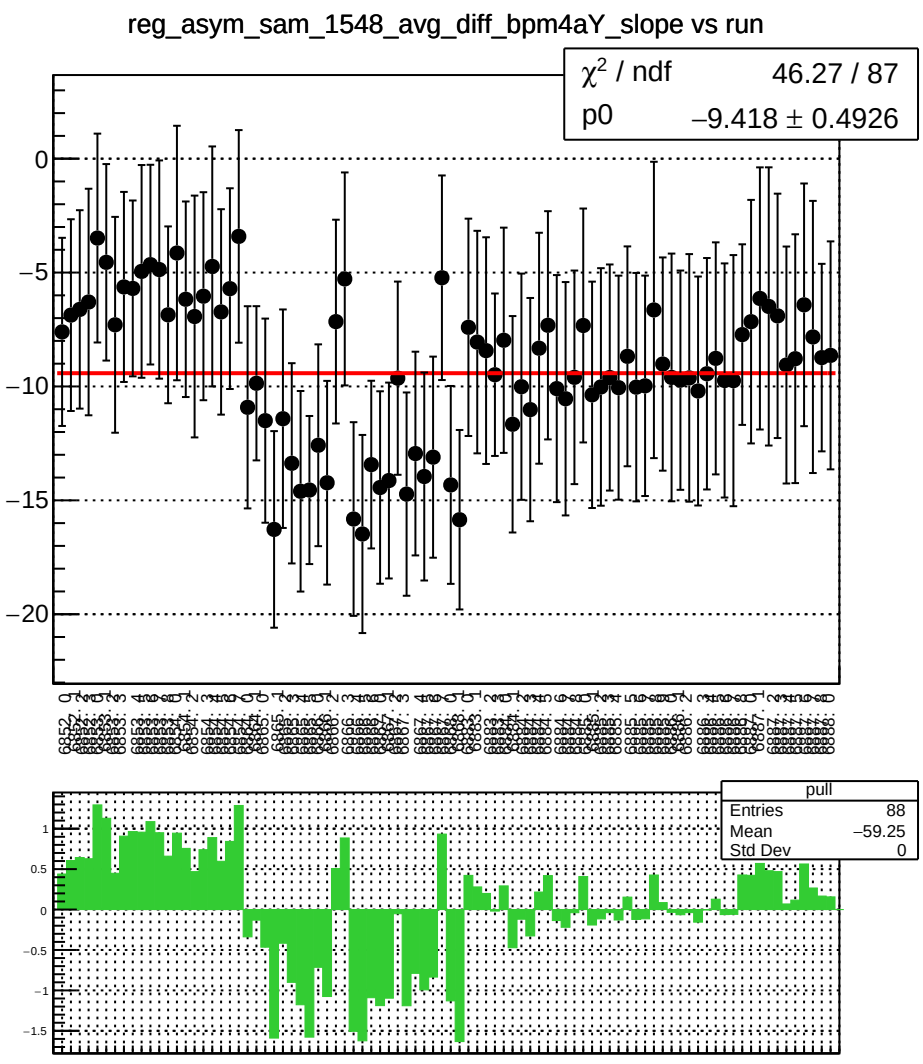

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 180.6 / 87
p0 21.64 ± 0.6008
pull
Entries 88
Mean 121.5
Std Dev 0

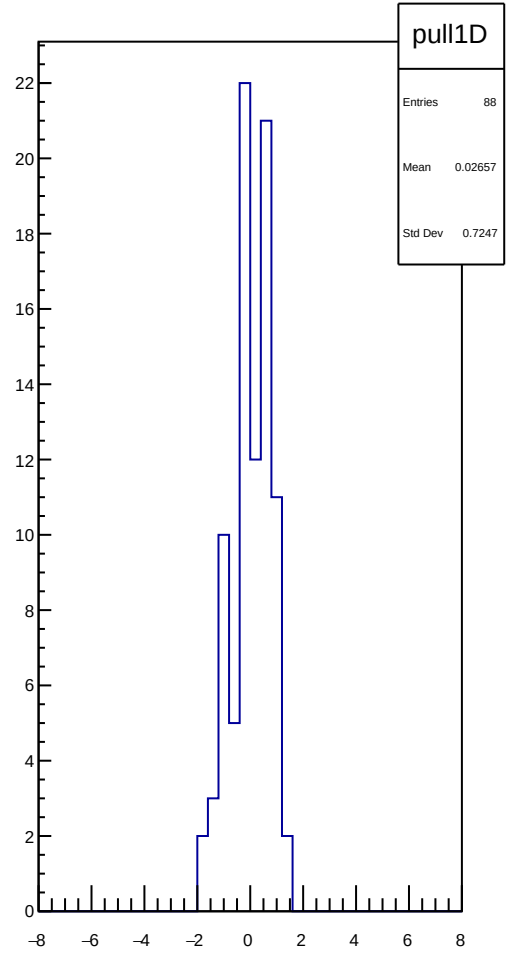

pull1D
Entries 88
Mean −0.1276
Std Dev 1.427

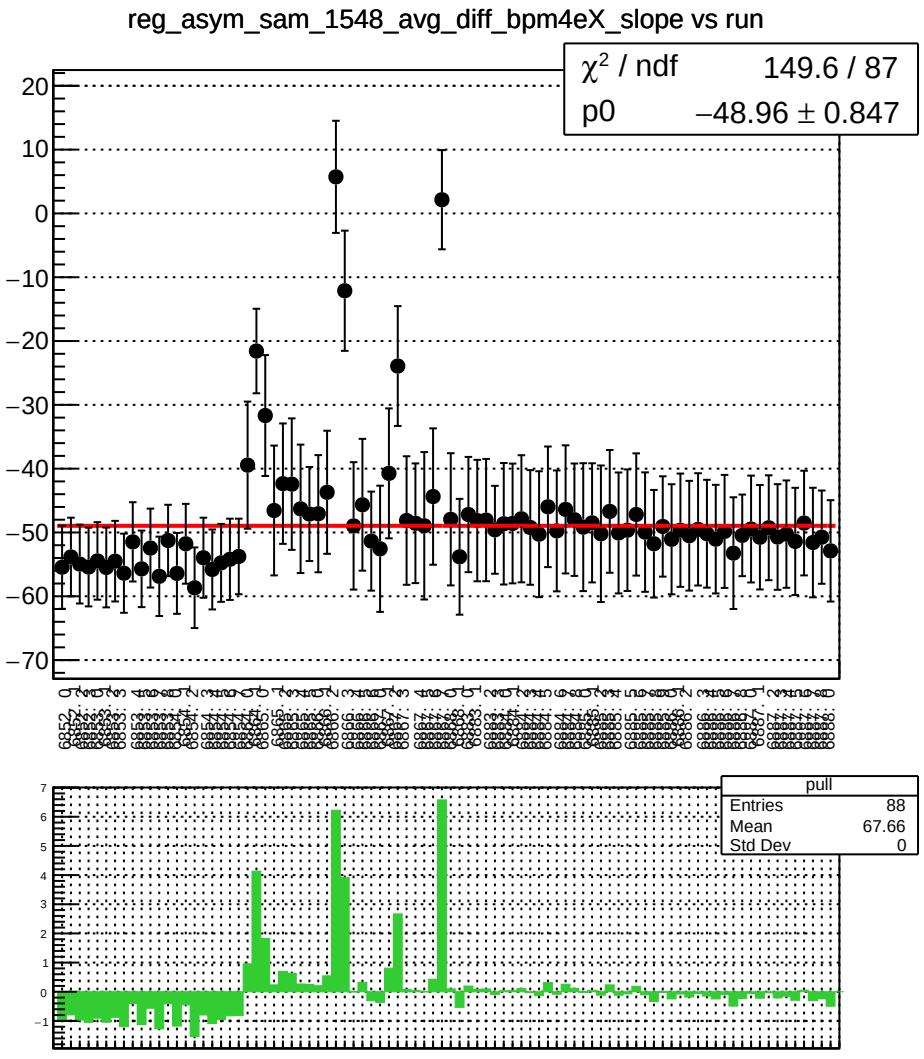

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.44 / 87
p0 −89.6 ± 0.447
pull
Entries 88
Mean 319.3
Std Dev 0
pull1D
Entries 88
Mean −0.02386
Std Dev 0.9851

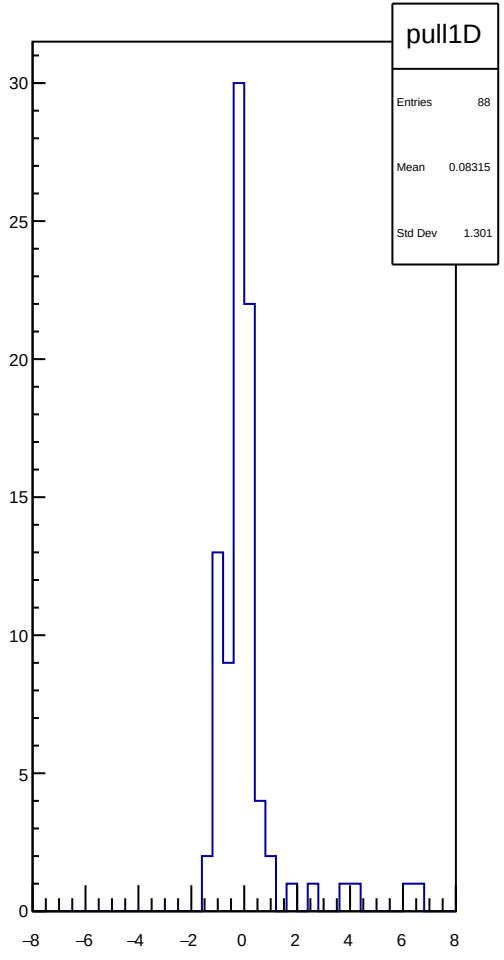

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 198.3 / 87
p0 0.3533 ± 0.02361
pull
Entries 88
Mean 237.9
Std Dev 0
pull1D
Entries 88
Mean 0.1799
Std Dev 1.49

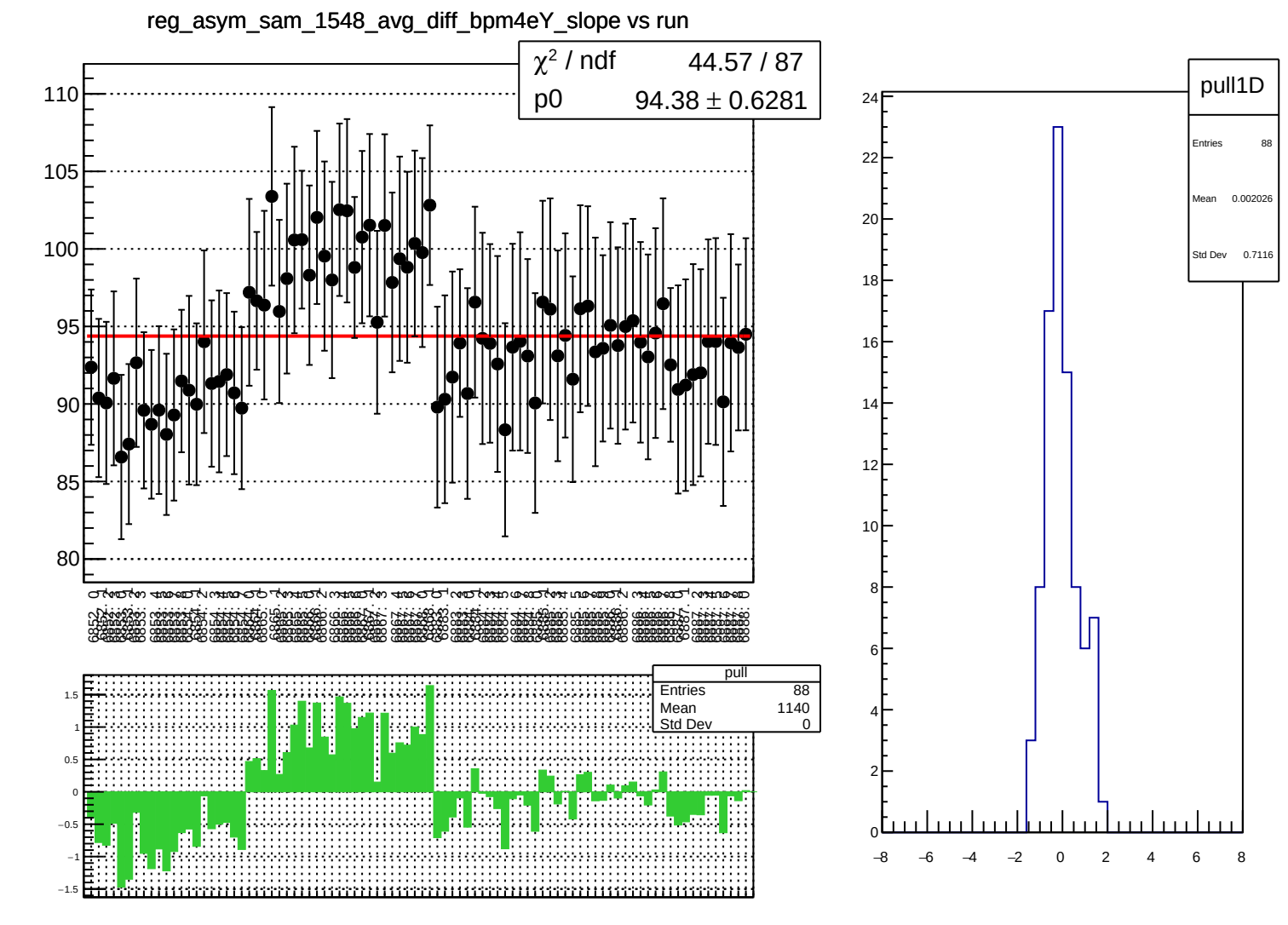

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 181 / 87
p0 −7.964 ± 0.8898
0
−20
−40
−60
−80
pull
Entries 88
Mean 72.26
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 88
Mean −0.08966
Std Dev 1.431
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

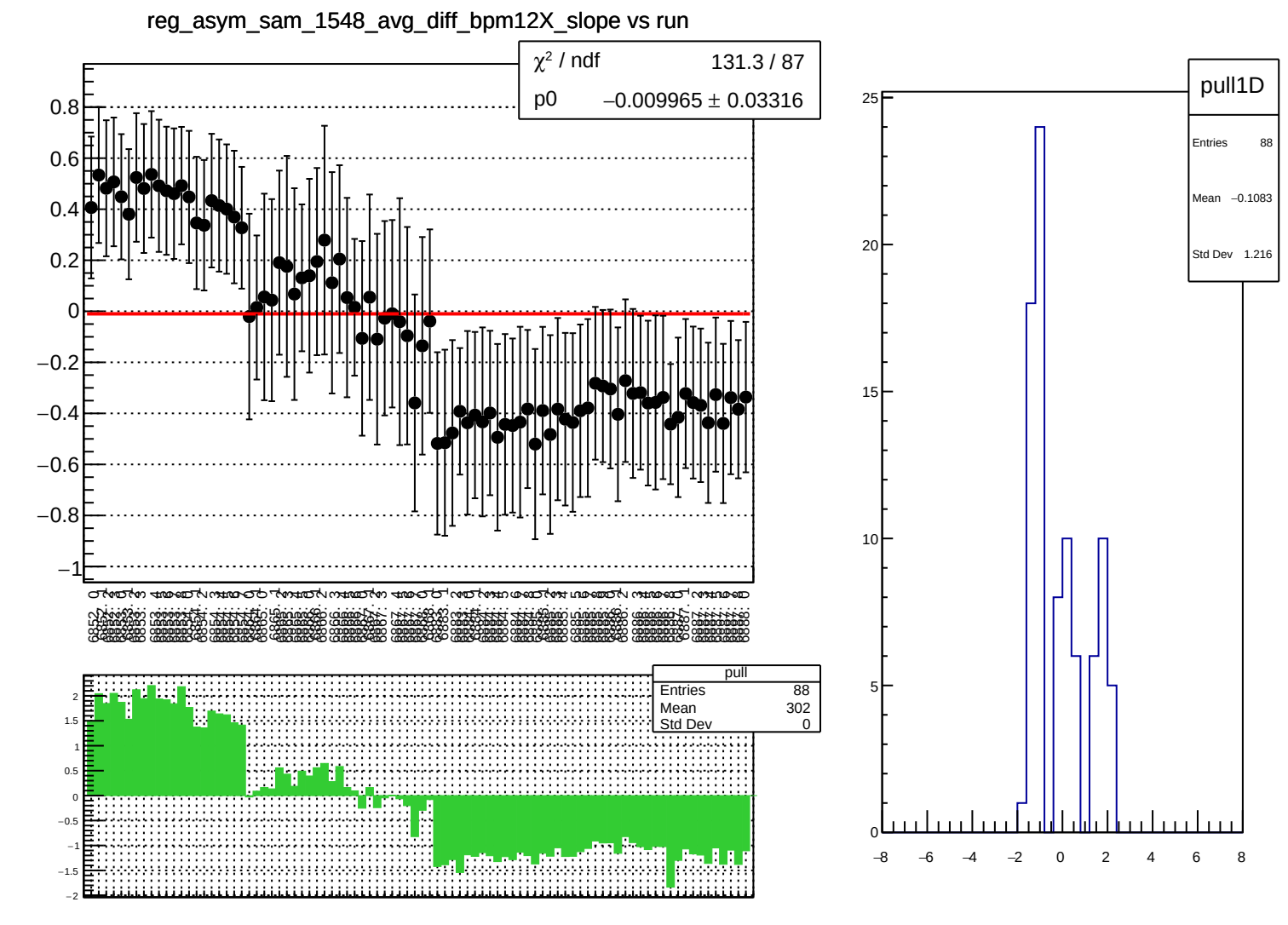

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.27 / 87
p0 −9.418 ± 0.4926
pull
Entries 88
Mean −59.25
Std Dev 0

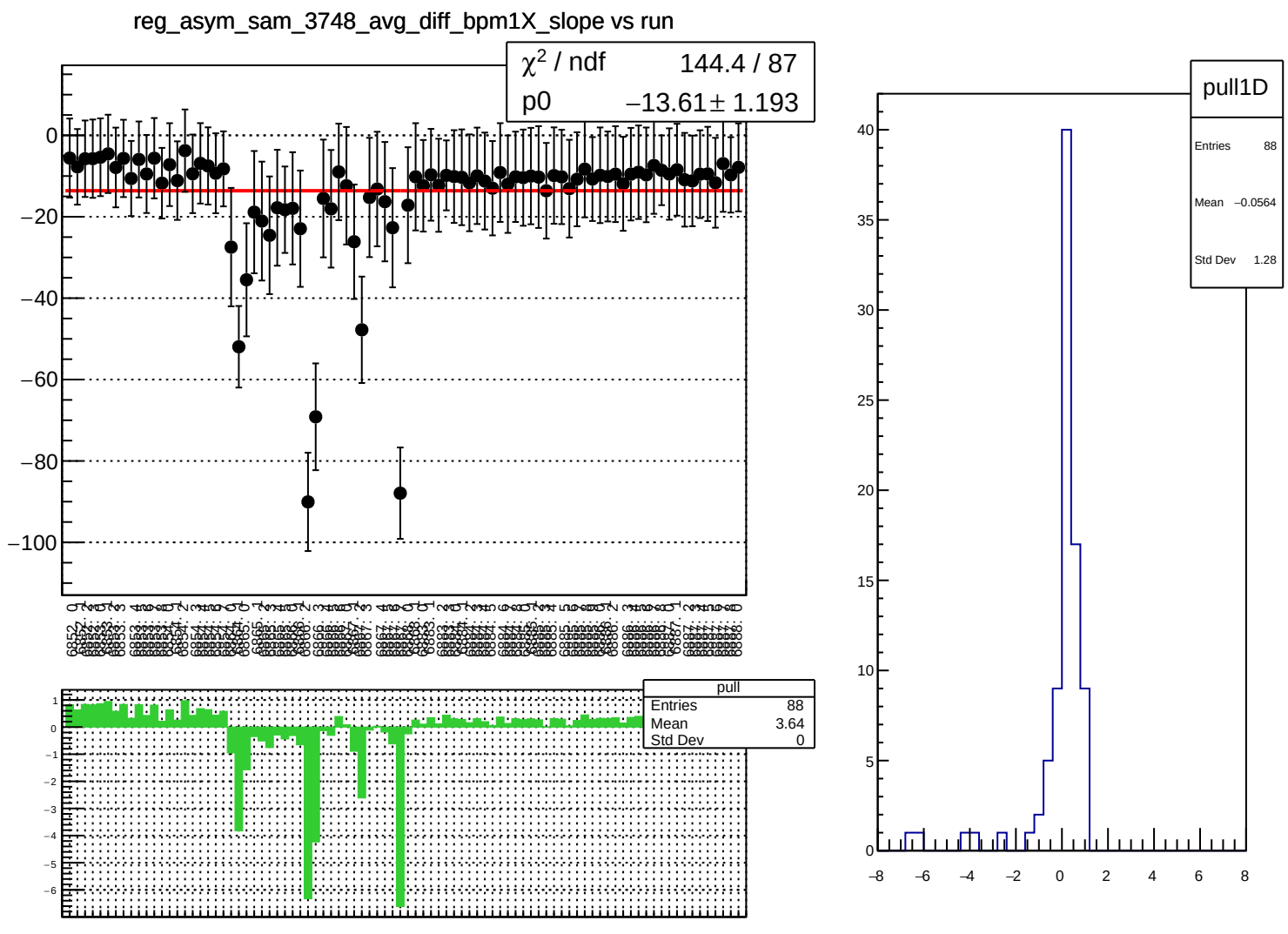

pull1D
Entries 88
Mean 0.02657
Std Dev 0.7247

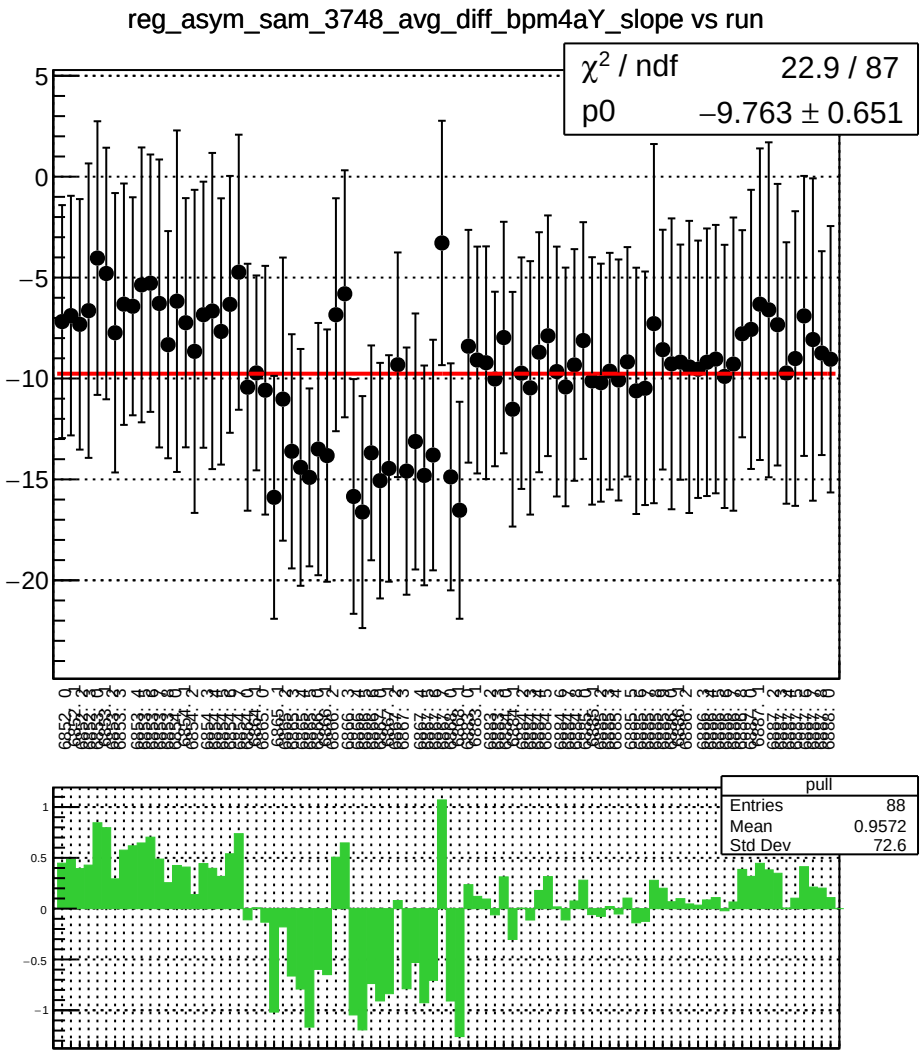

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 149.6 / 87
p0 −48.96 ± 0.847
pull
Entries 88
Mean 67.66
Std Dev 0

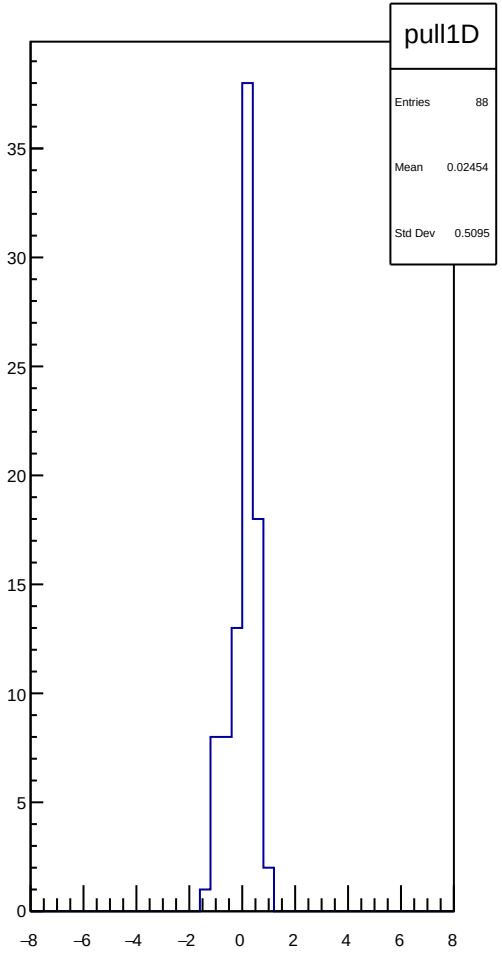

pull1D
Entries 88
Mean 0.08315
Std Dev 1.301

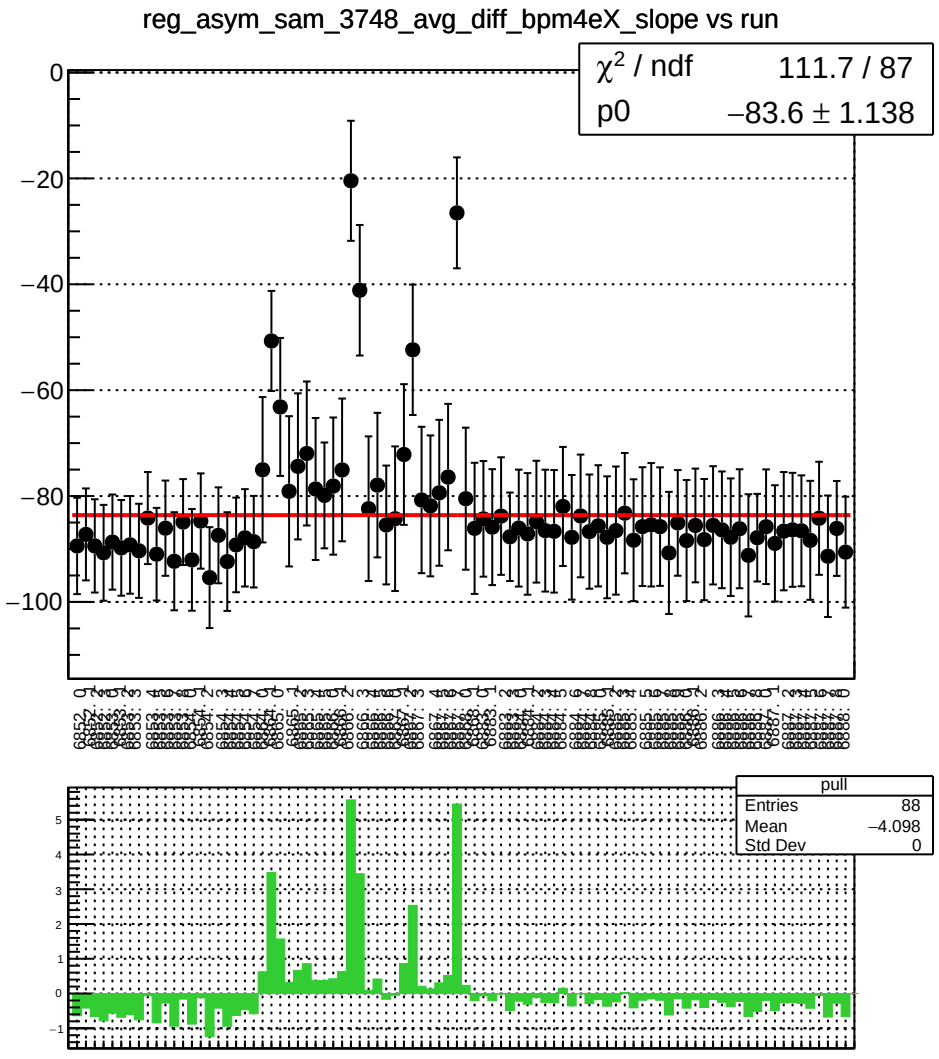

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.57 / 87
p0 94.38 ± 0.6281
pull
Entries 88
Mean 1140
Std Dev 0
pull1D
Entries 88
Mean 0.002026
Std Dev 0.7116

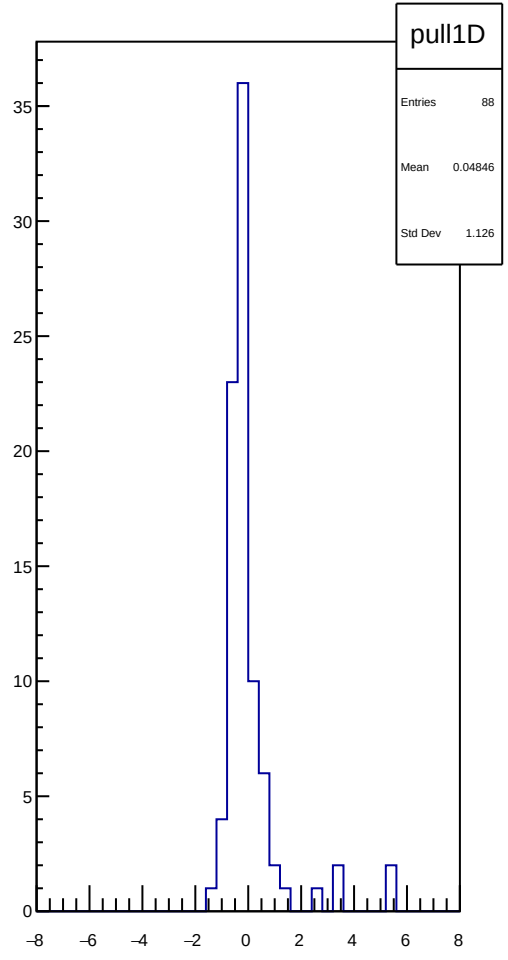

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 131.3 / 87
p0 −0.009965 ± 0.03316
pull
Entries 88
Mean 302
Std Dev 0
pull1D
Entries 88
Mean −0.1083
Std Dev 1.216

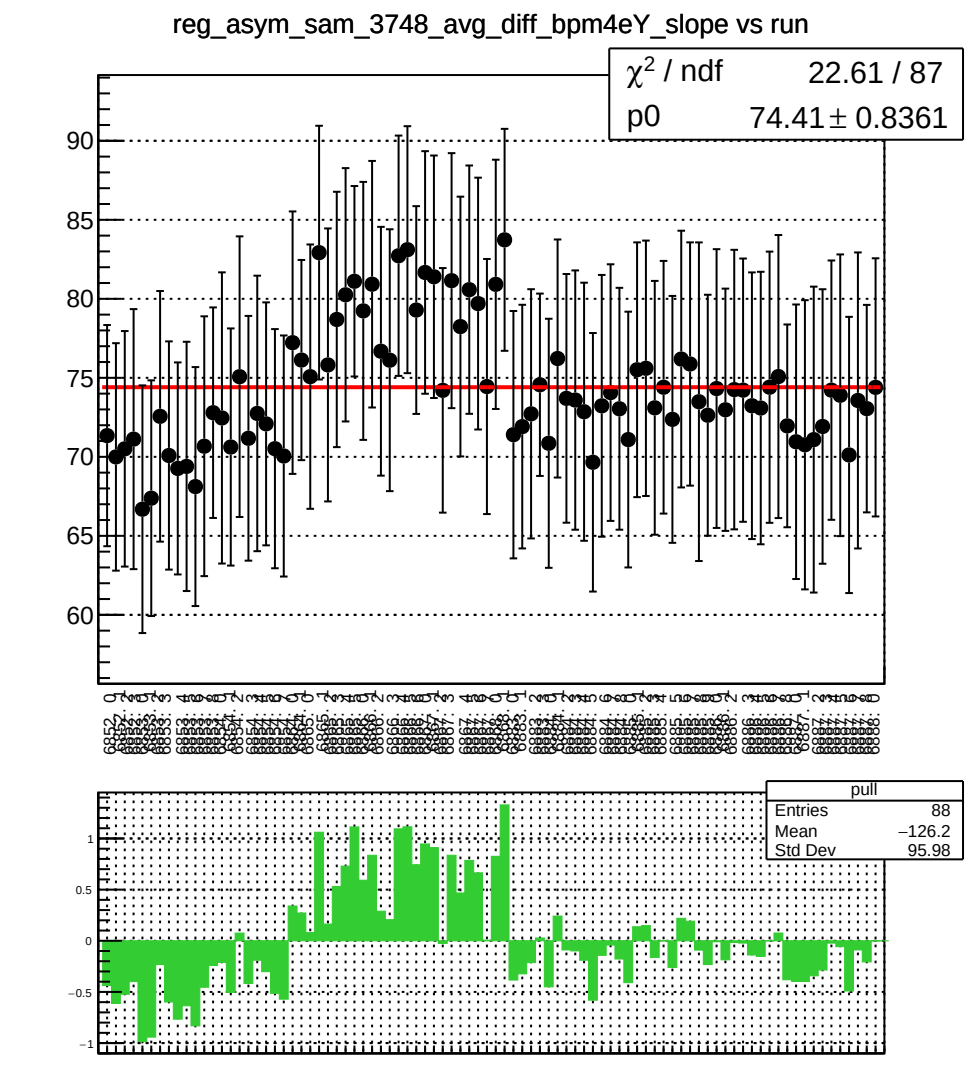

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 144.4 / 87
p0 −13.61± 1.193
pull
Entries 88
Mean 3.64
Std Dev 0
pull1D
Entries 88
Mean −0.0564
Std Dev 1.28

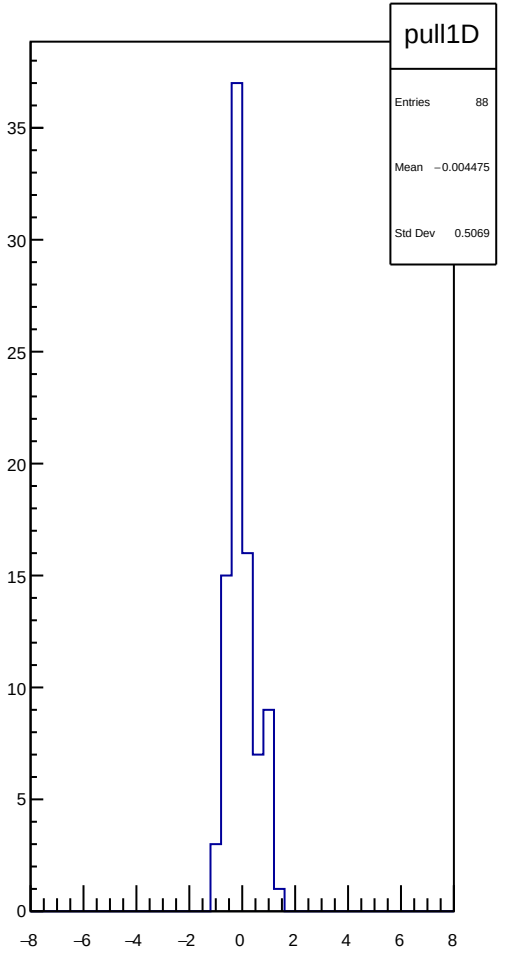

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.9 / 87
p0 −9.763 ± 0.651
pull
Entries 88
Mean 0.9572
Std Dev 72.6

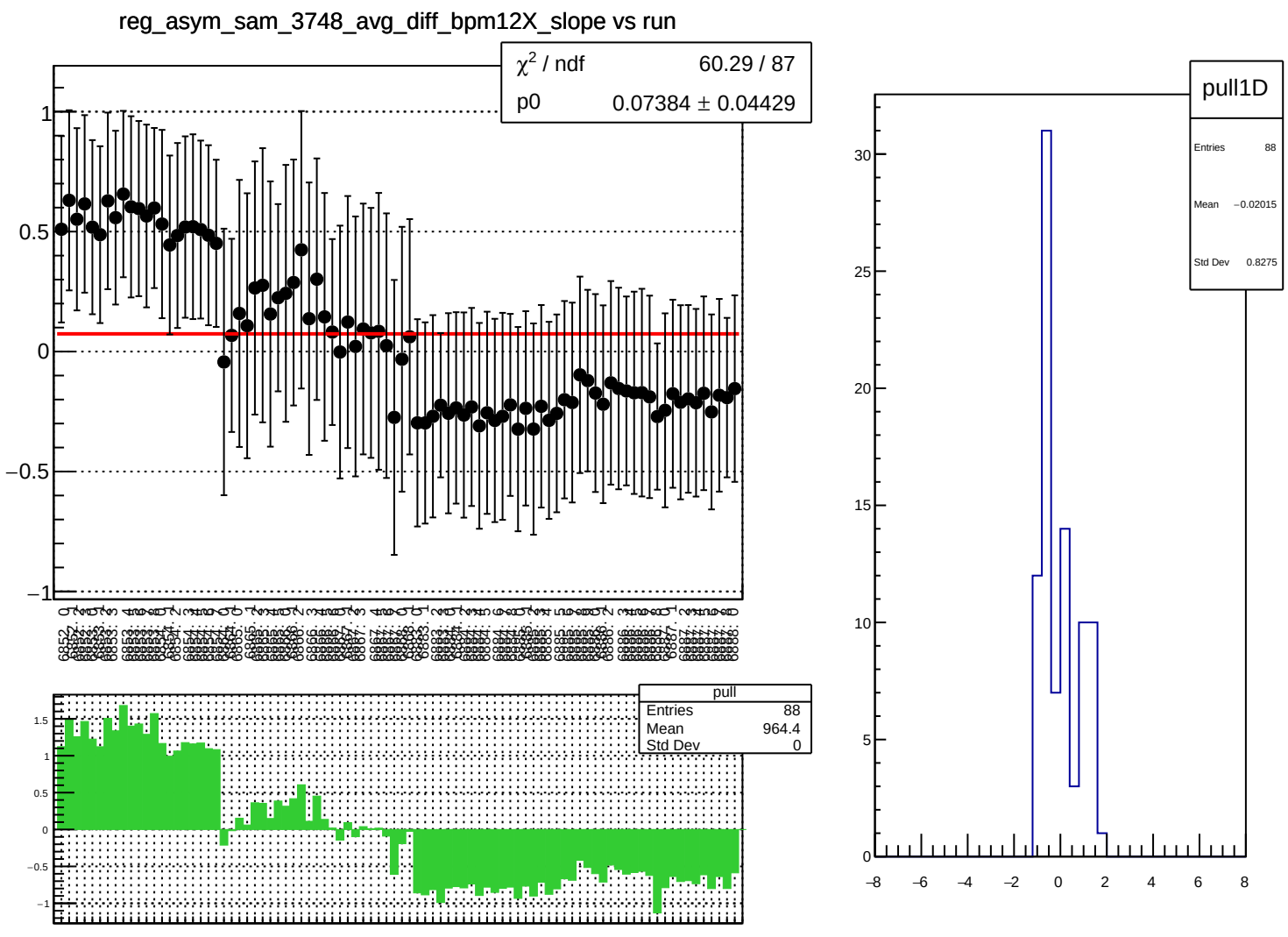

pull1D
Entries 88
Mean 0.02454
Std Dev 0.5095

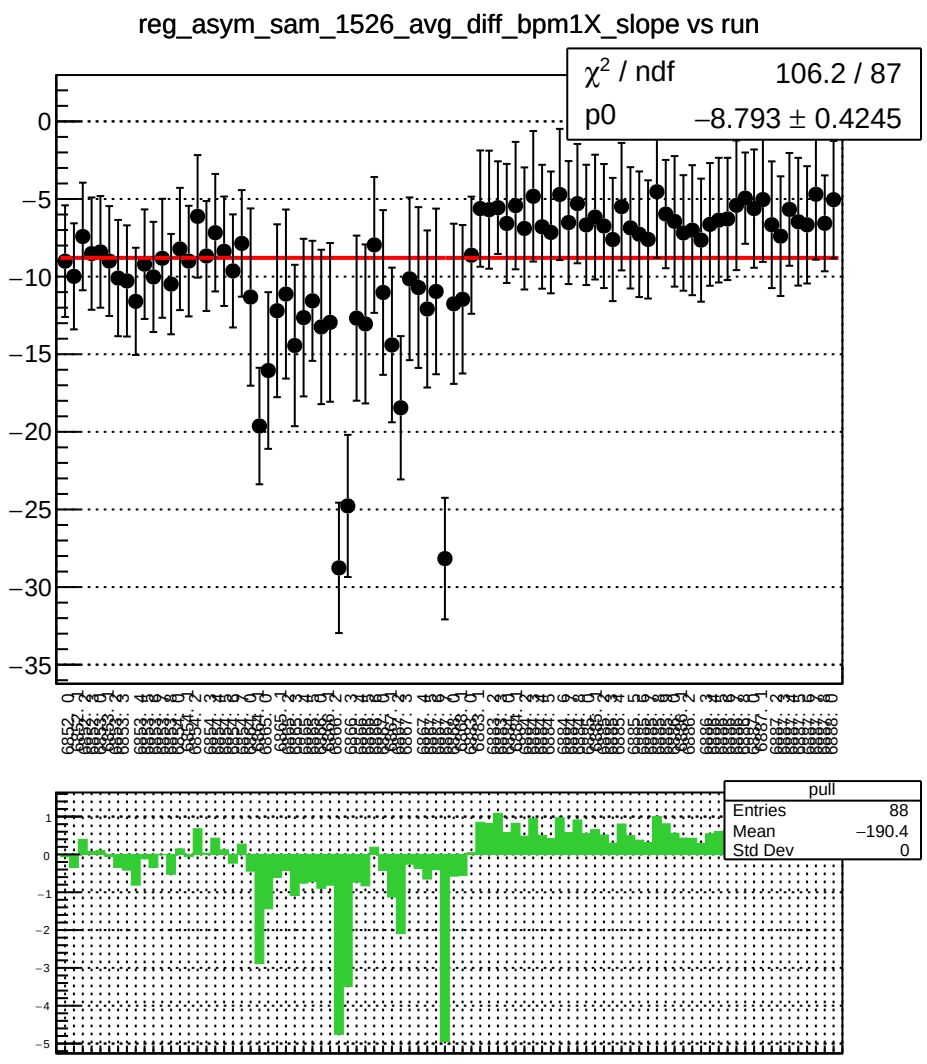

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 111.7 / 87
p0 −83.6 ± 1.138
pull
Entries 88
Mean −4.098
Std Dev 0

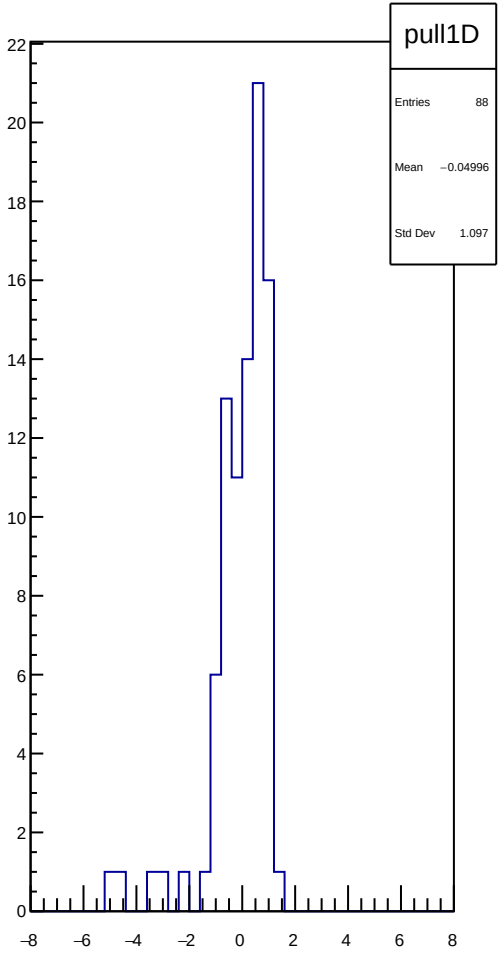

pull1D
Entries 88
Mean 0.04846
Std Dev 1.126

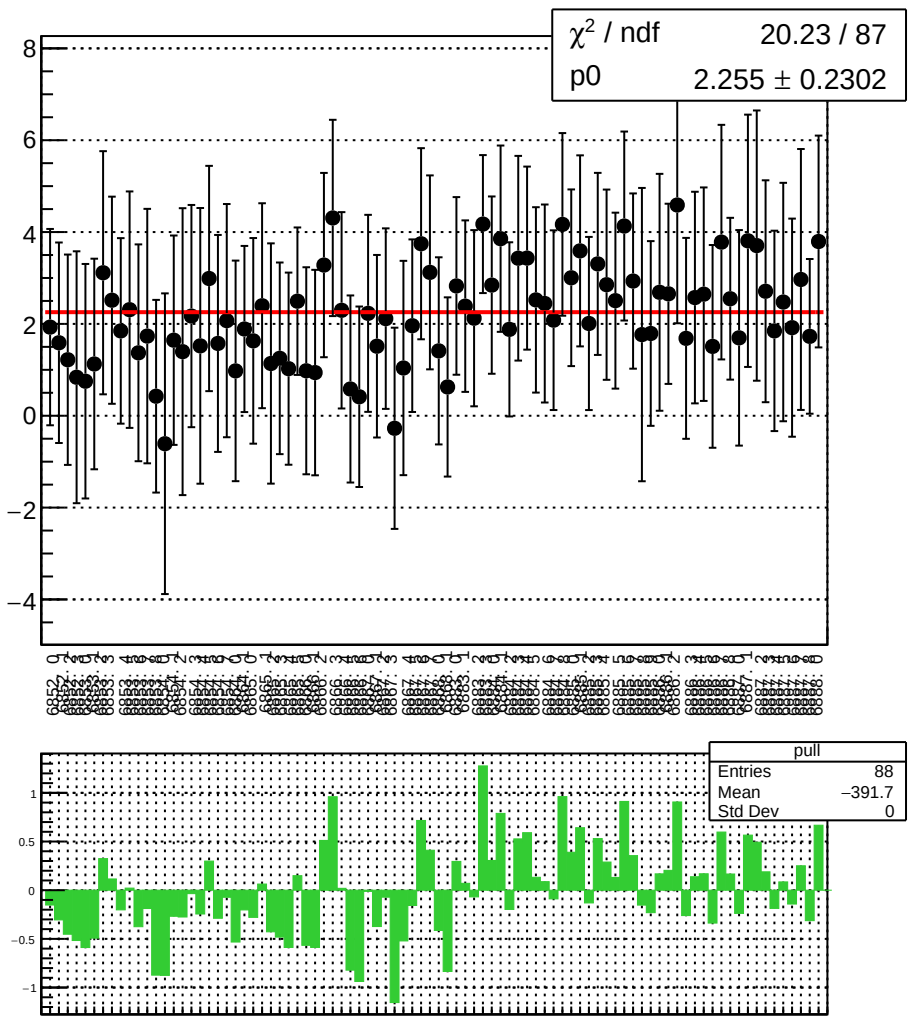

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.61 / 87
p0 74.41 ± 0.8361
90
85
80
75
70
65
60
pull
Entries 88
Mean −126.2
Std Dev 95.98
1
0.5
0
−0.5
−1

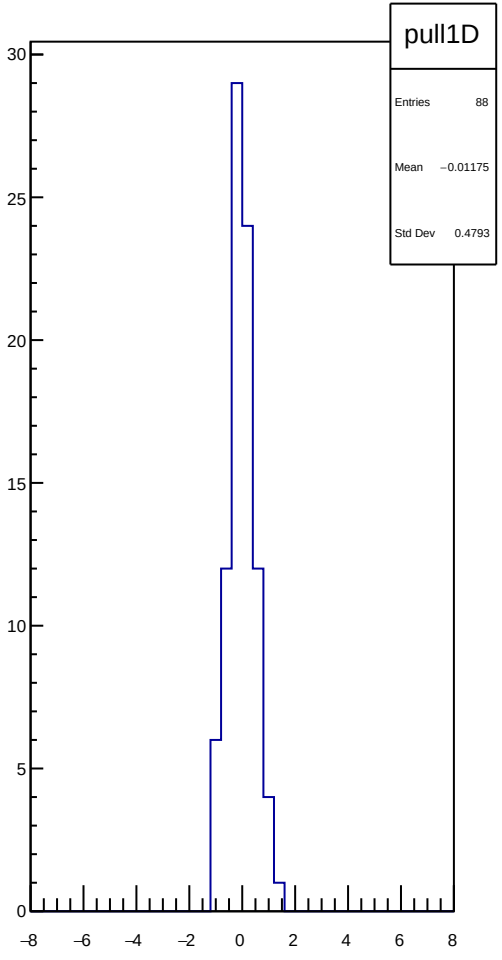

pull1D
Entries 88
Mean −0.004475
Std Dev 0.5069
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

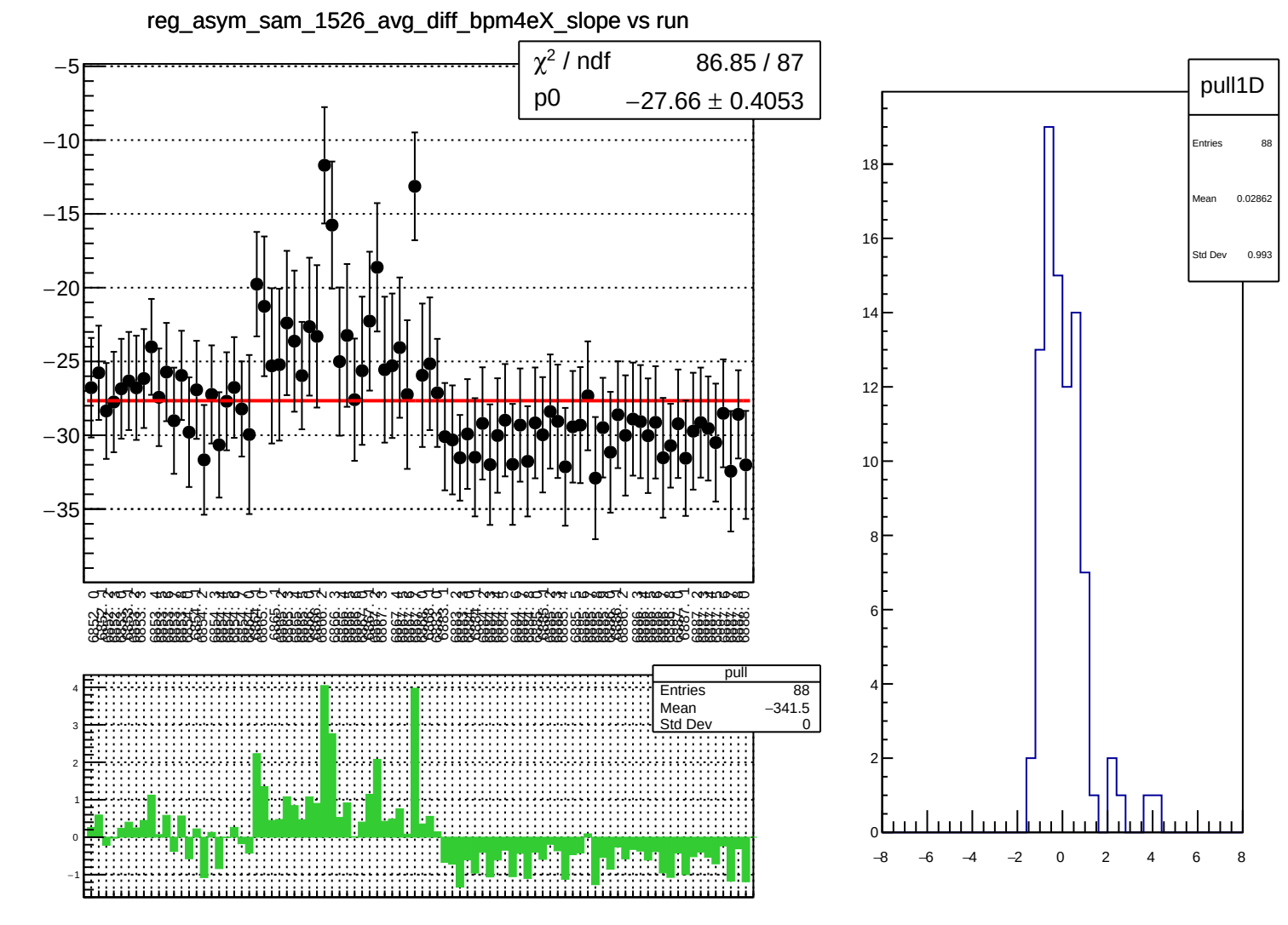

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 60.29 / 87
p0 0.07384 ± 0.04429
pull
Entries 88
Mean 964.4
Std Dev 0
pull1D
Entries 88
Mean −0.02015
Std Dev 0.8275

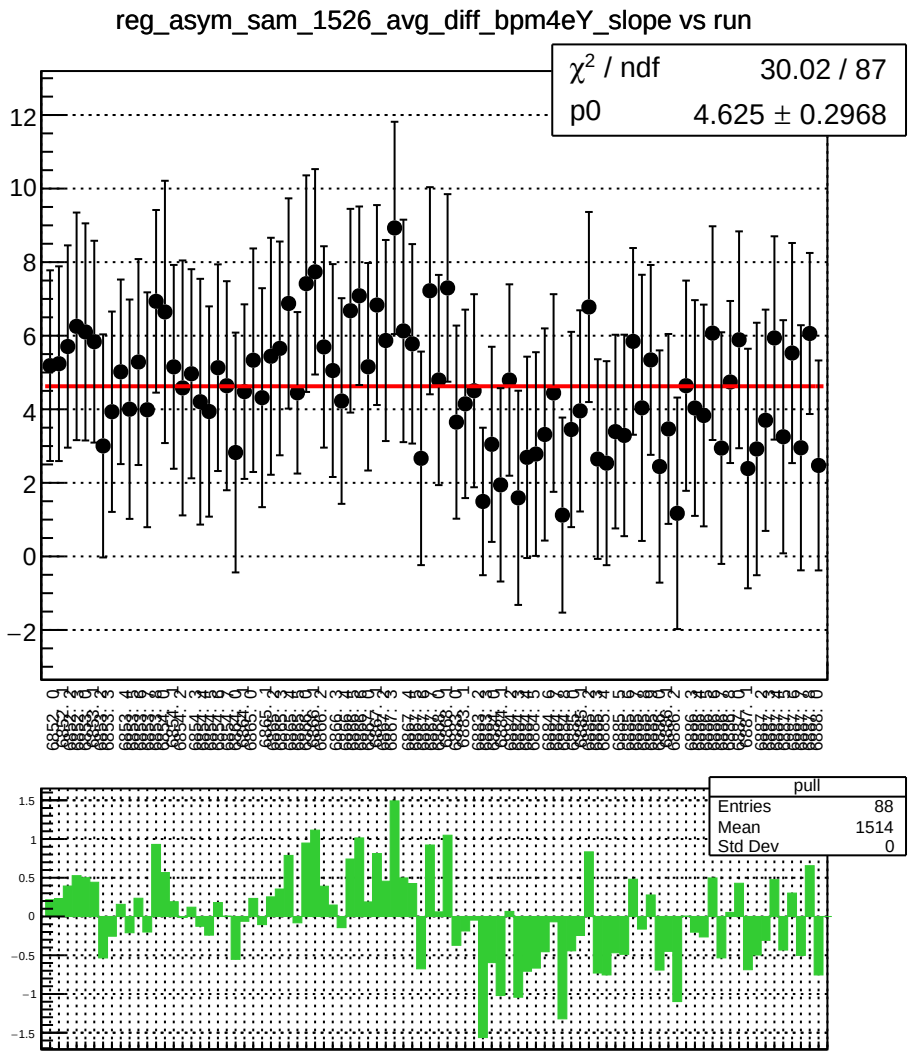

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 106.2 / 87
p0 −8.793 ± 0.4245
pull
Entries 88
Mean −190.4
Std Dev 0

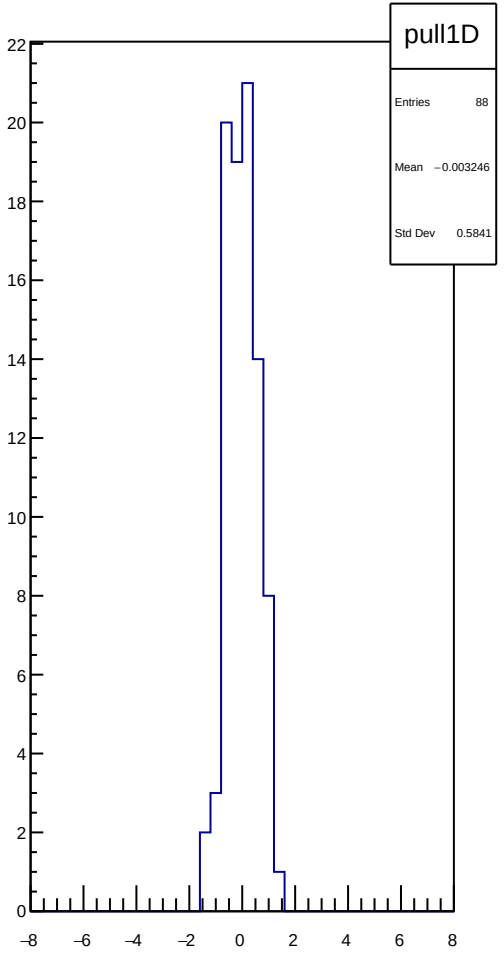

pull1D
Entries 88
Mean −0.04996
Std Dev 1.097

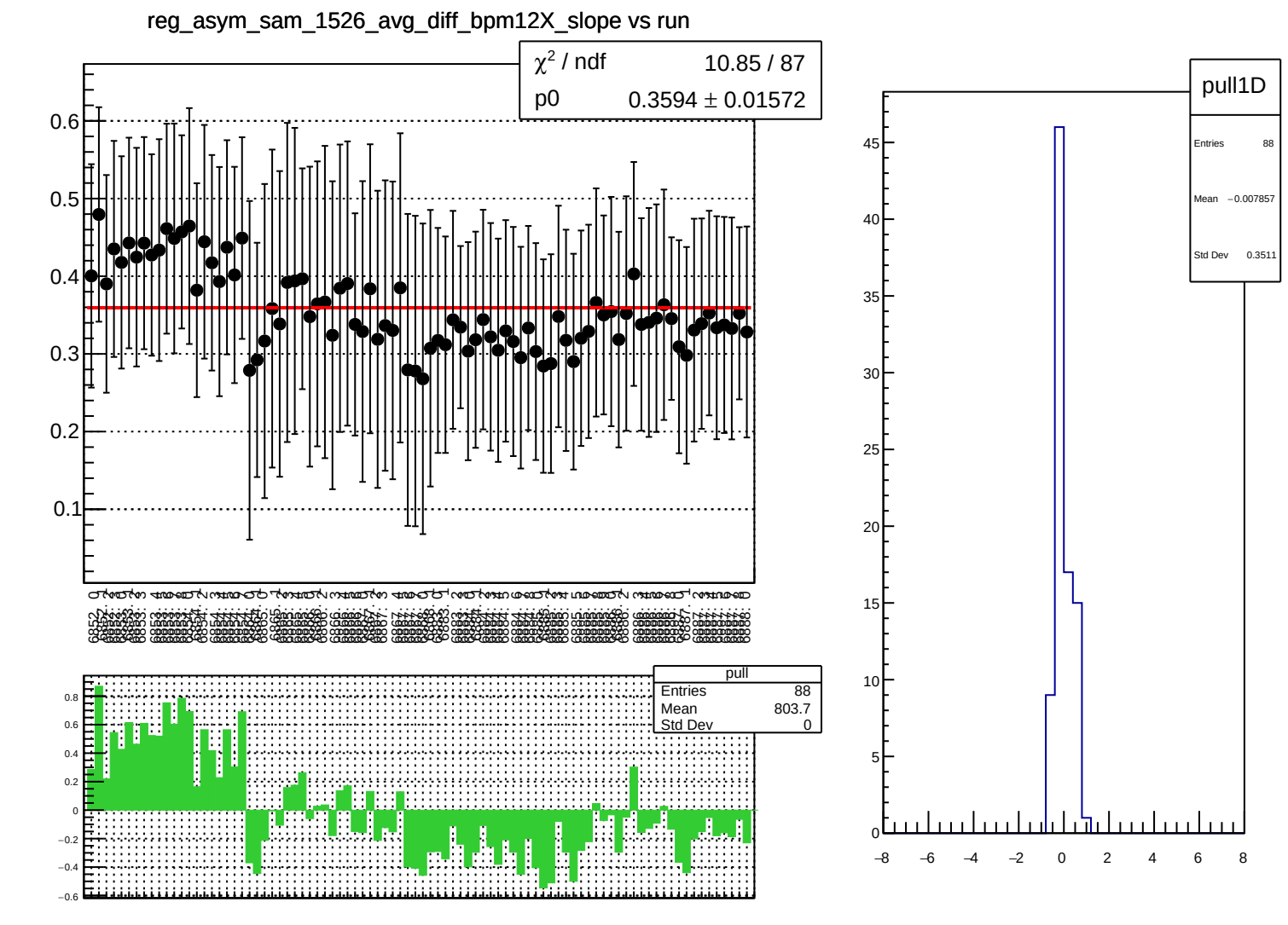

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.23 / 87
p0 2.255 ± 0.2302
pull
Entries 88
Mean −391.7
Std Dev 0

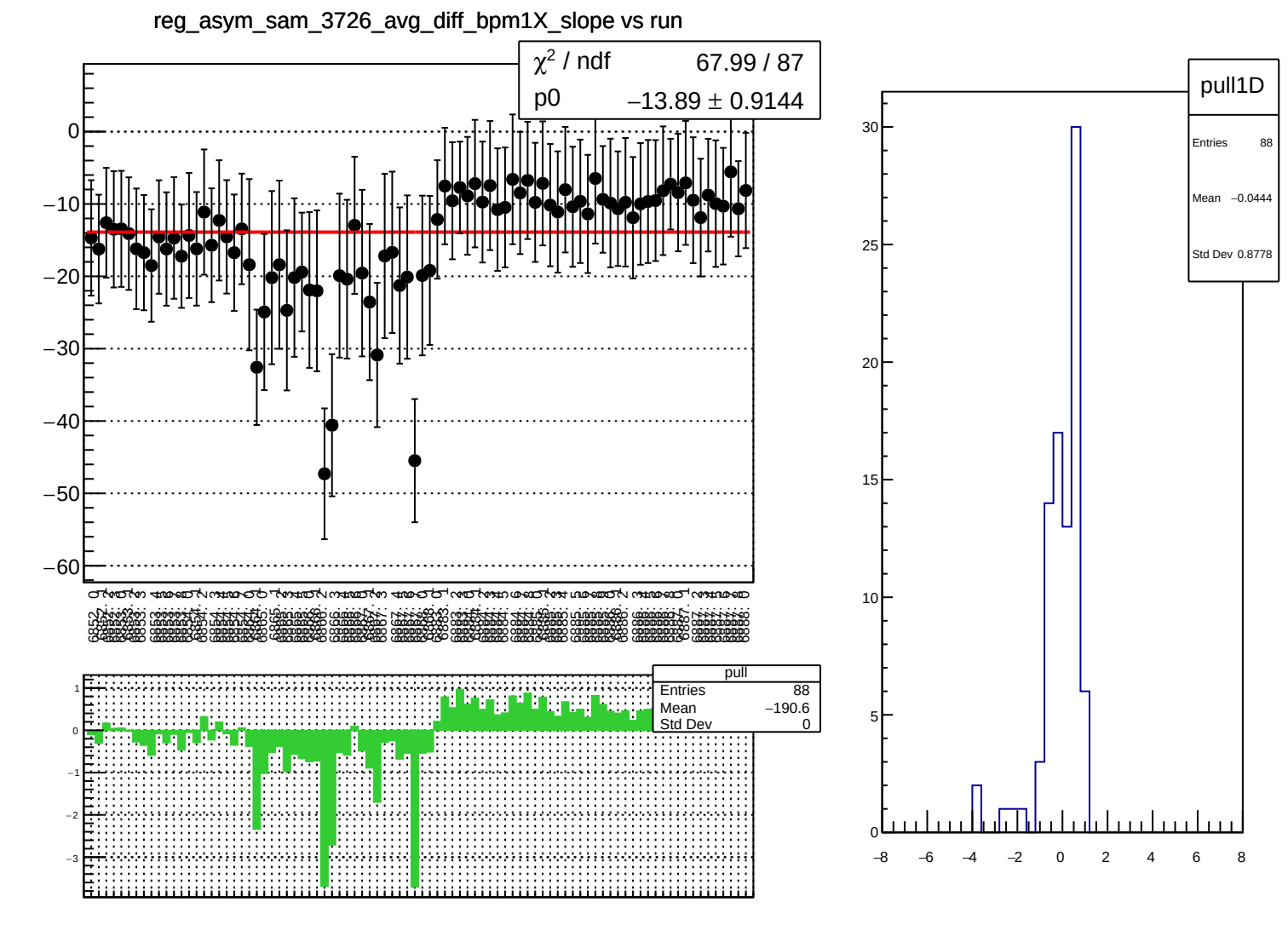

pull1D
Entries 88
Mean −0.01175
Std Dev 0.4793

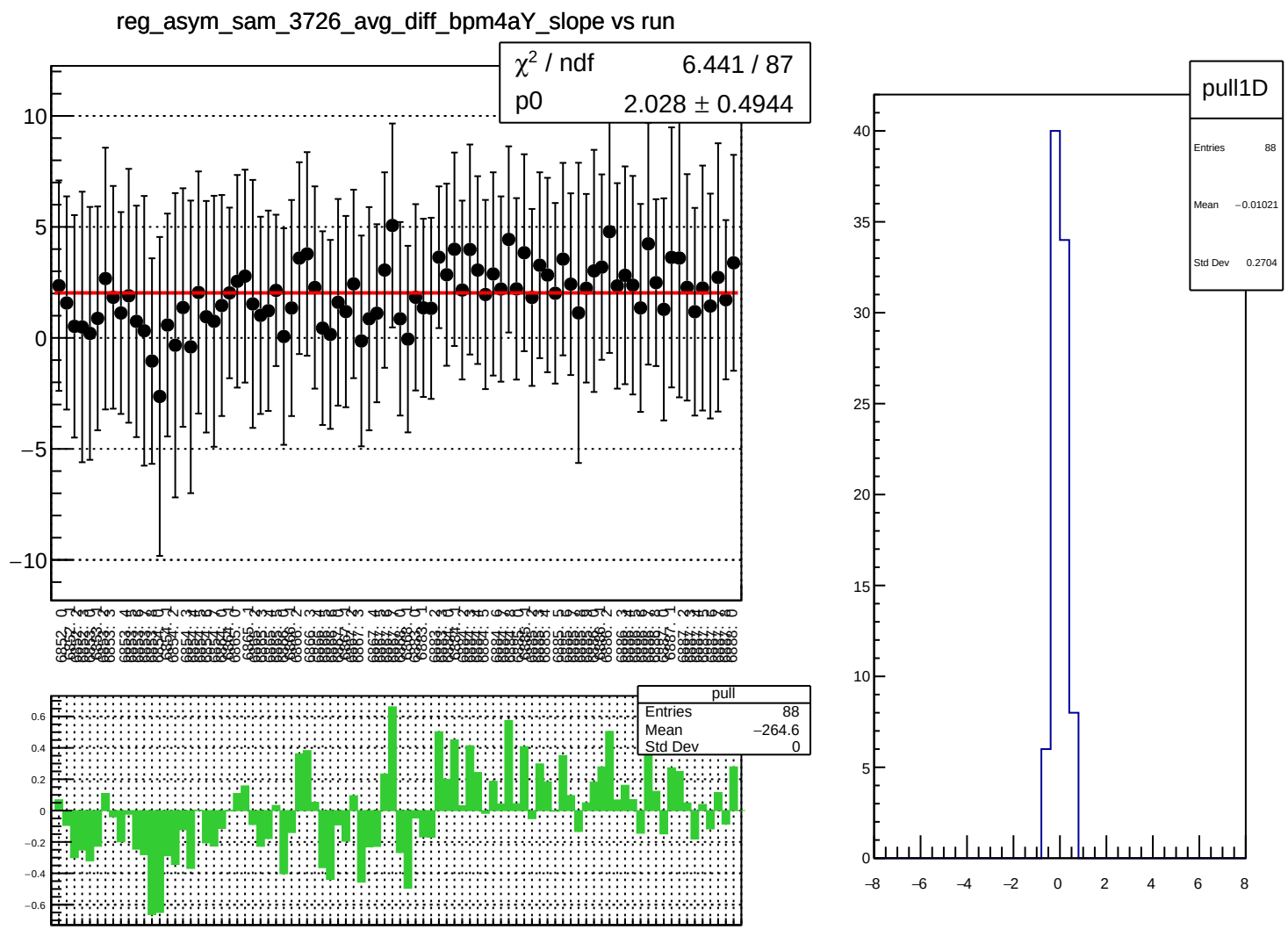

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 86.85 / 87
p0 −27.66 ± 0.4053
−5
−10
−15
−20
−25
−30
−35
pull
Entries 88
Mean −341.5
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 88
Mean 0.02862
Std Dev 0.993
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

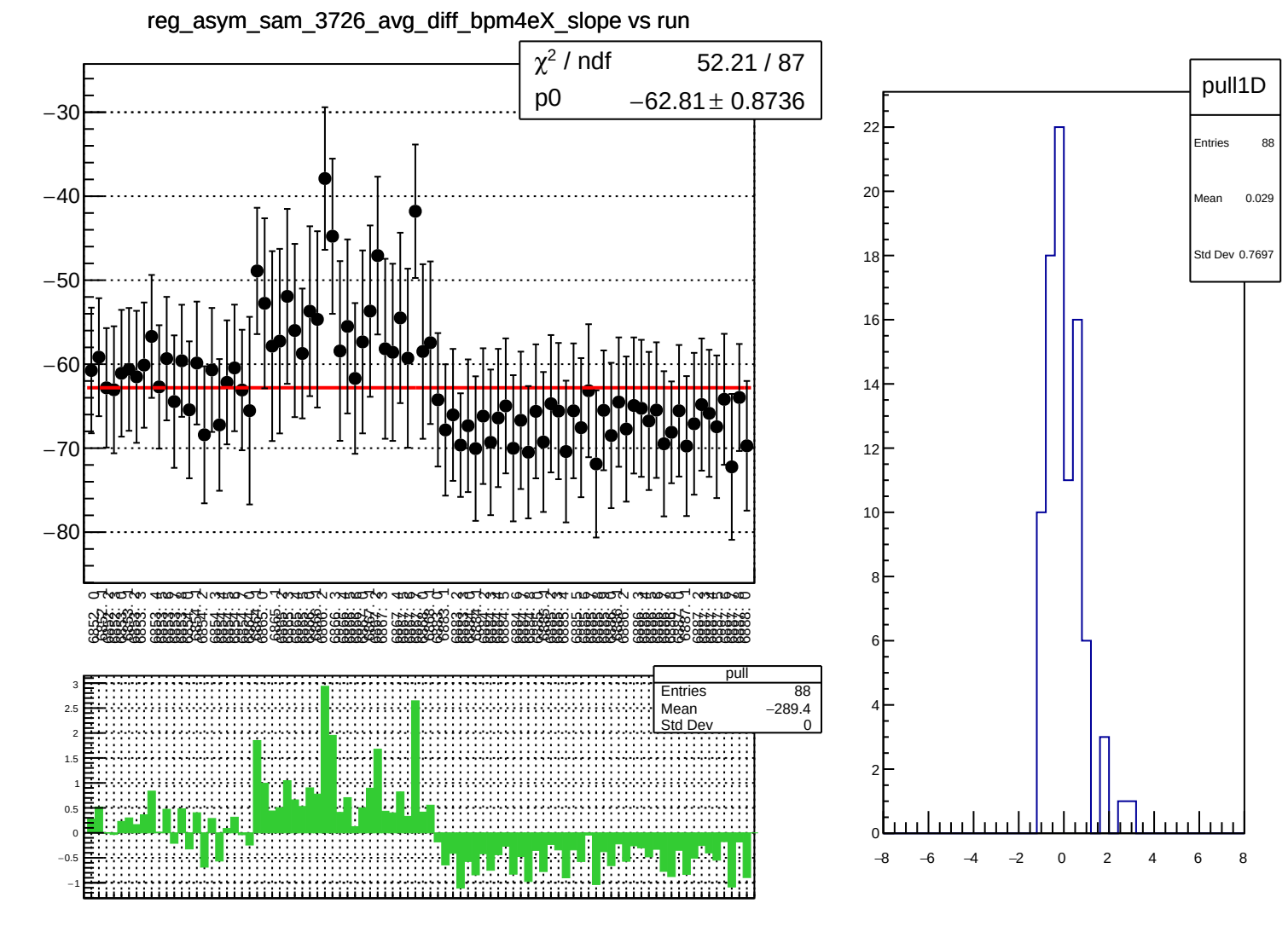

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.02 / 87
p0 4.625 ± 0.2968
pull
Entries 88
Mean 1514
Std Dev 0

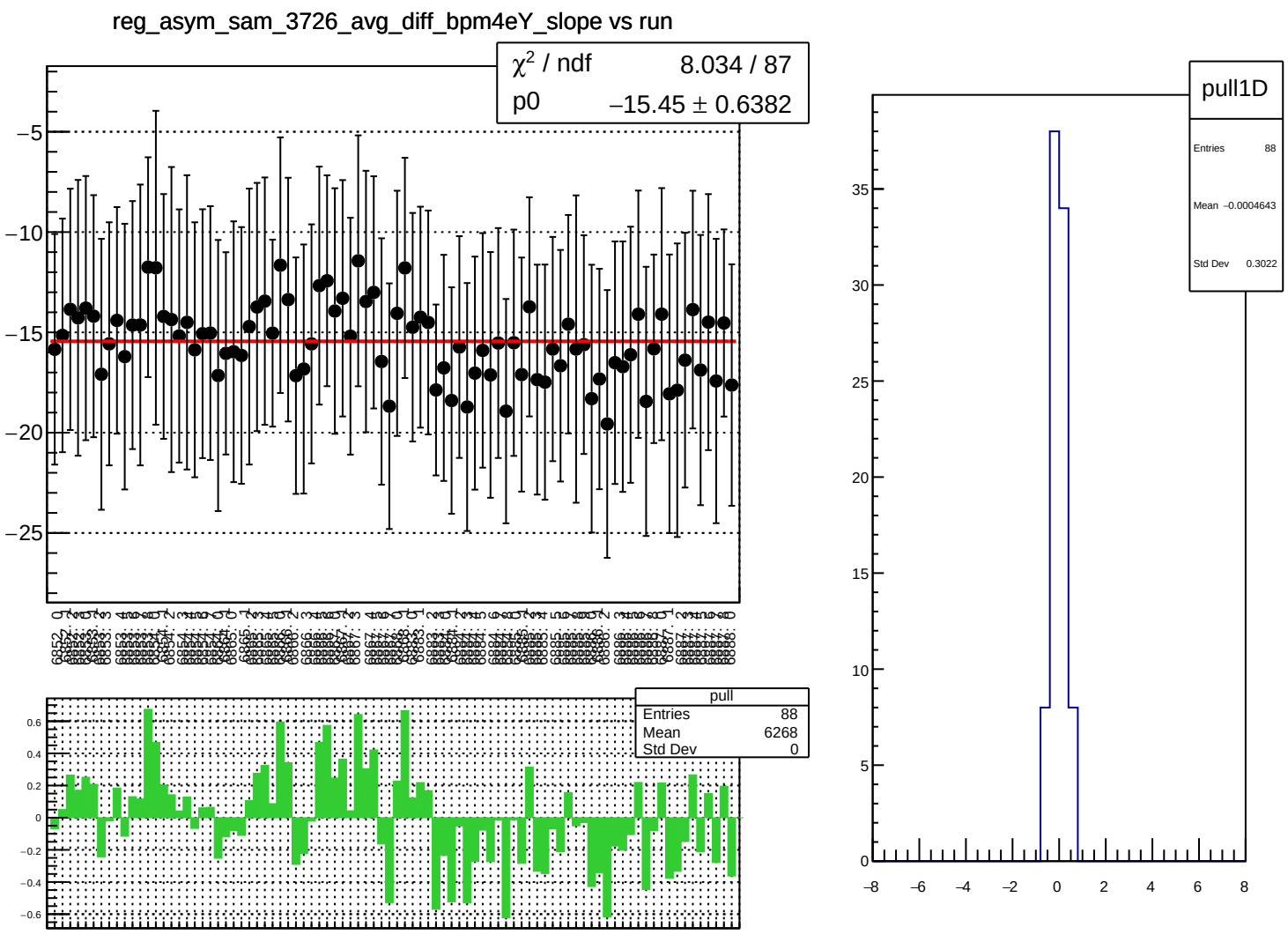

pull1D
Entries 88
Mean −0.003246
Std Dev 0.5841

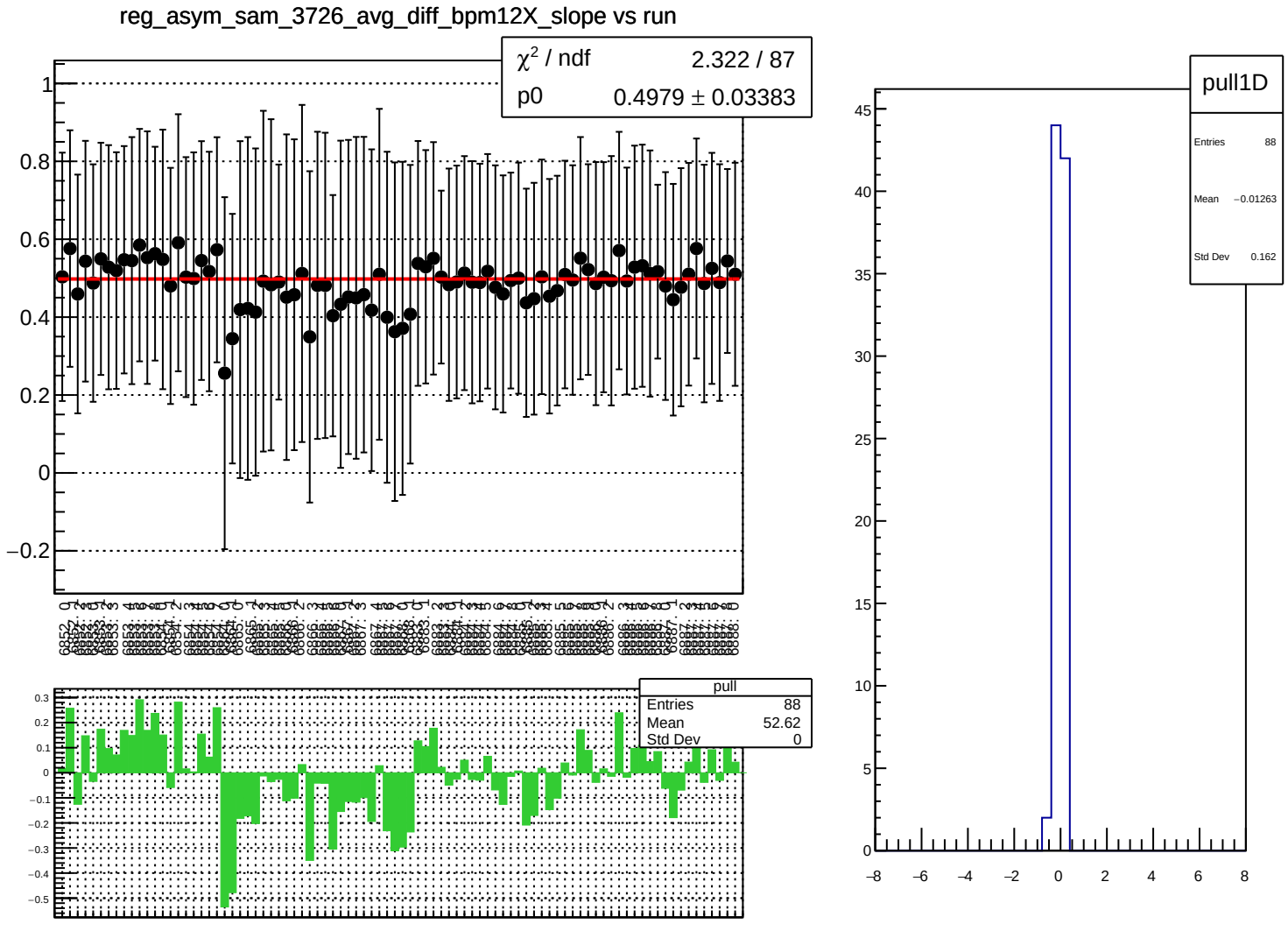

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 10.85 / 87
p0 0.3594 ± 0.01572
pull
Entries 88
Mean 803.7
Std Dev 0
pull1D
Entries 88
Mean −0.007857
Std Dev 0.3511

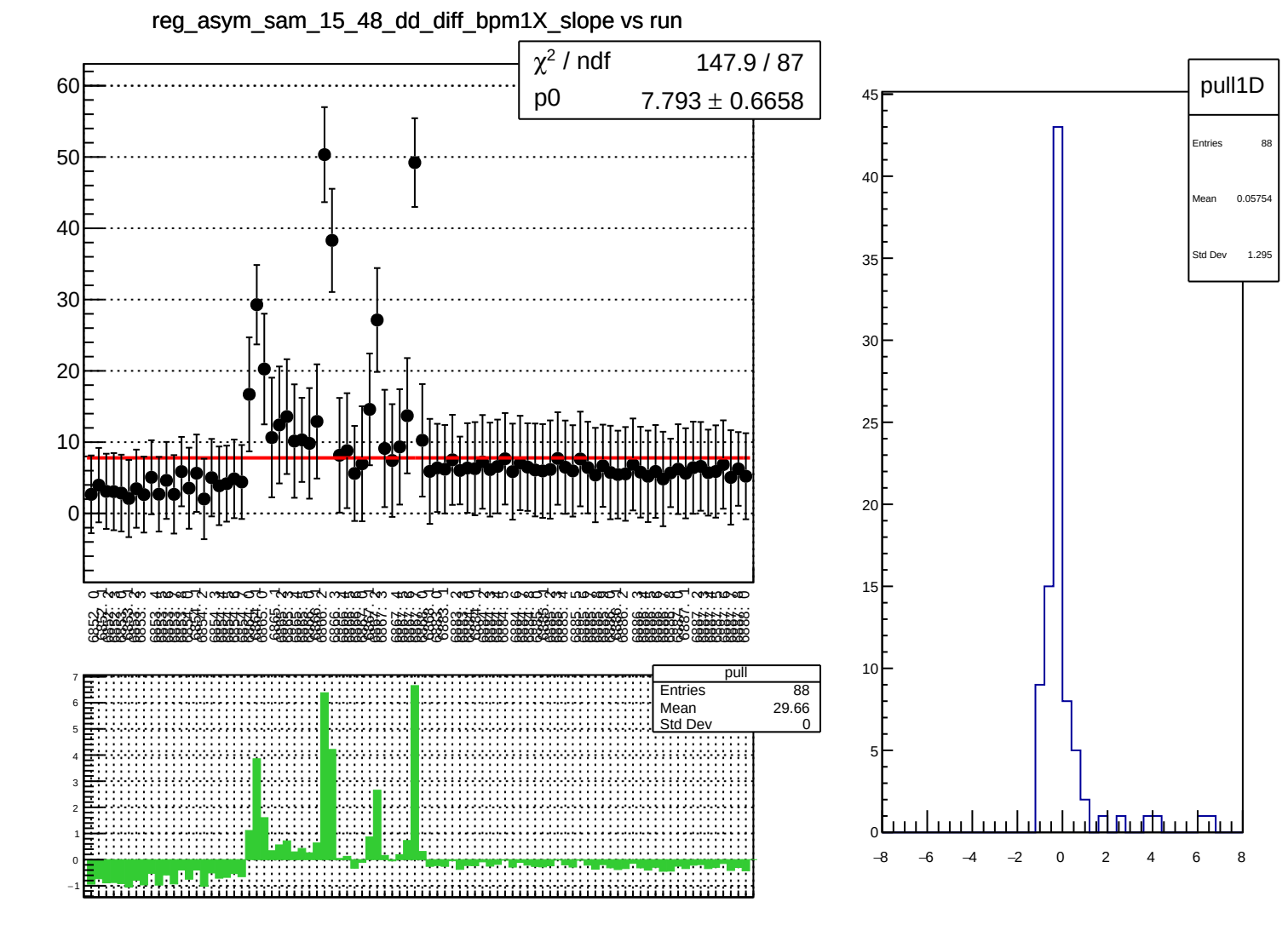

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 67.99 / 87
p0 −13.89 ± 0.9144
pull
Entries 88
Mean −190.6
Std Dev 0
pull1D
Entries 88
Mean −0.0444
Std Dev 0.8778

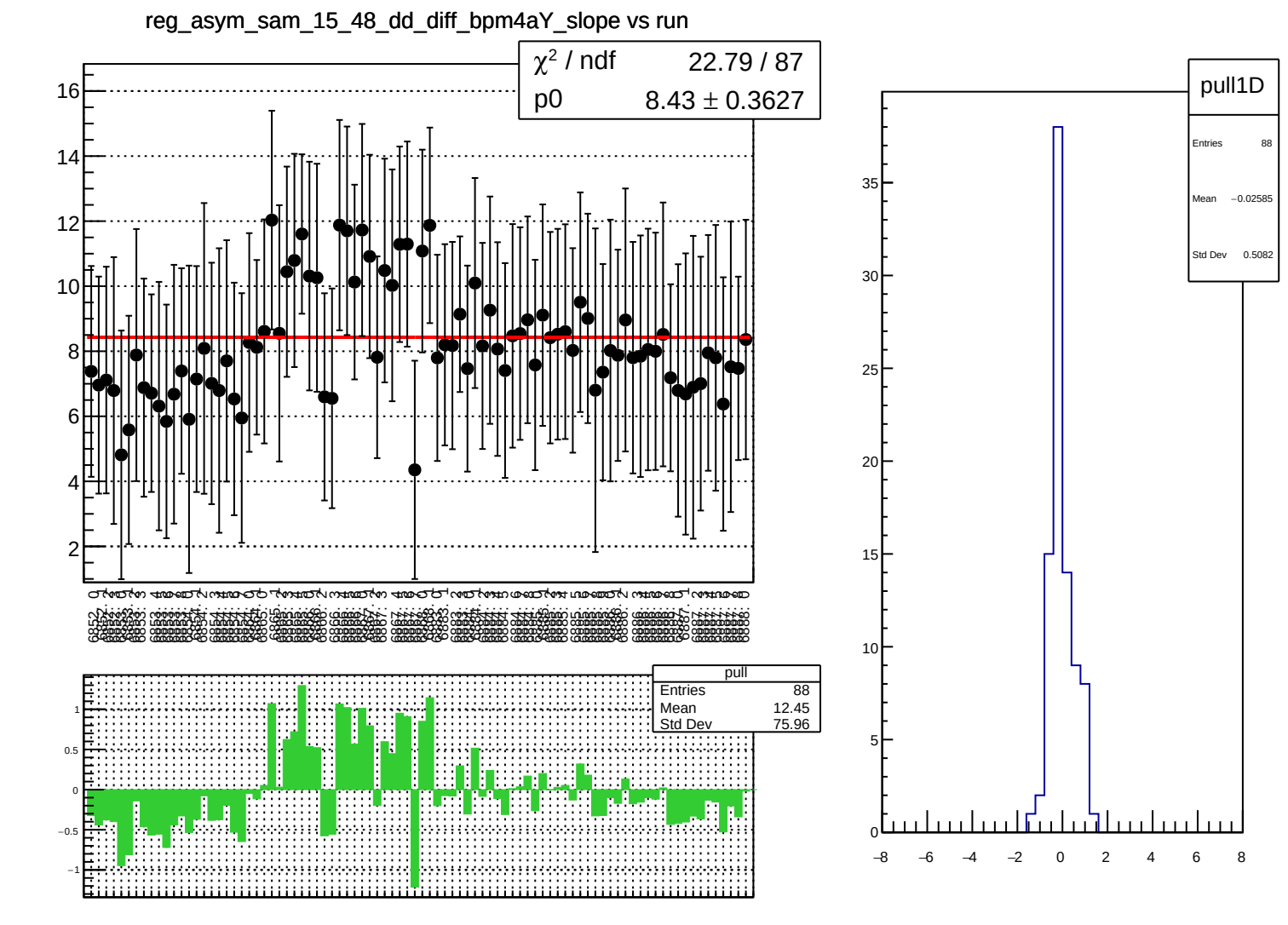

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.441 / 87
p0 2.028 ± 0.4944
pull
Entries 88
Mean −264.6
Std Dev 0
pull1D
Entries 88
Mean −0.01021
Std Dev 0.2704

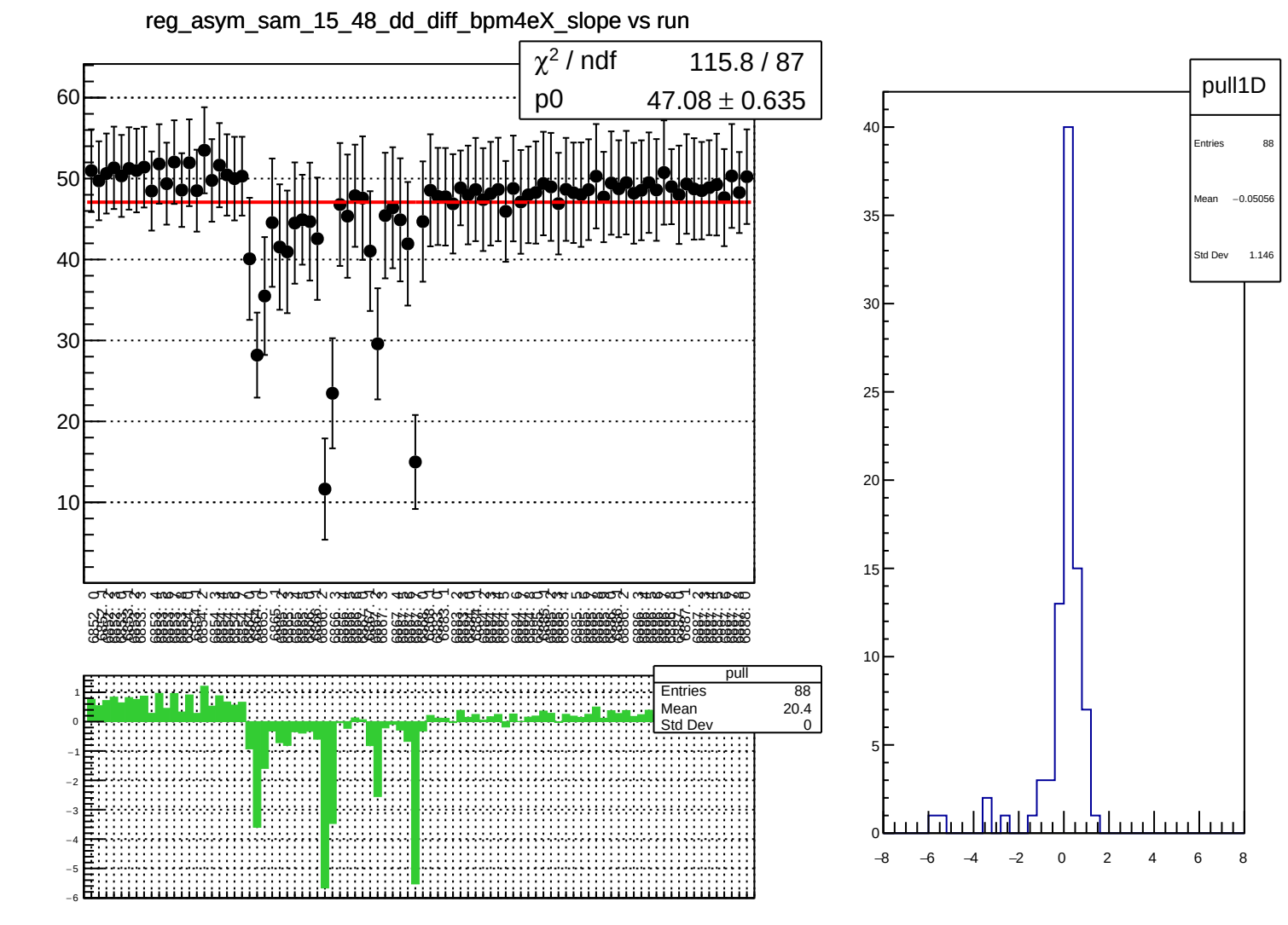

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.21 / 87
p0 −62.81 ± 0.8736
pull
Entries 88
Mean −289.4
Std Dev 0
pull1D
Entries 88
Mean 0.029
Std Dev 0.7697

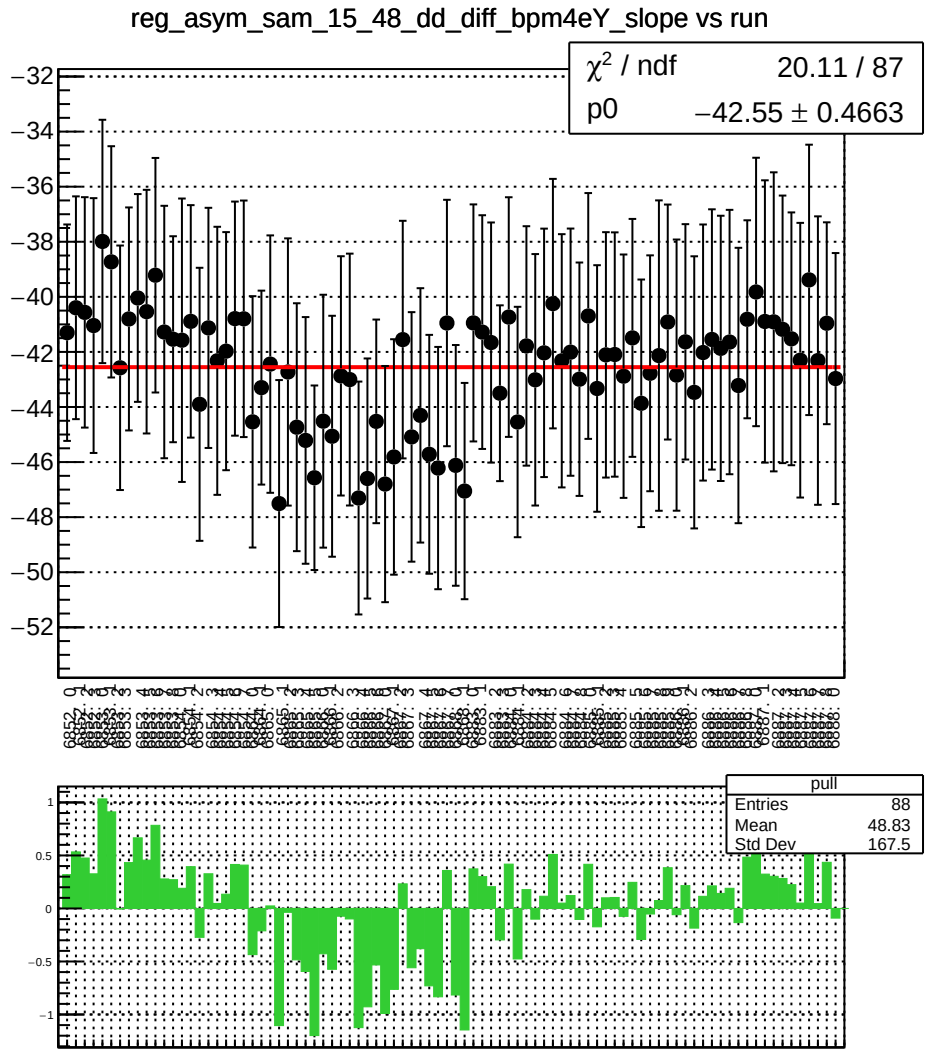

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.034 / 87
p0 −15.45 ± 0.6382
−5
−10
−15
−20
−25
pull
Entries 88
Mean 6268
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean −0.0004643
Std Dev 0.3022
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

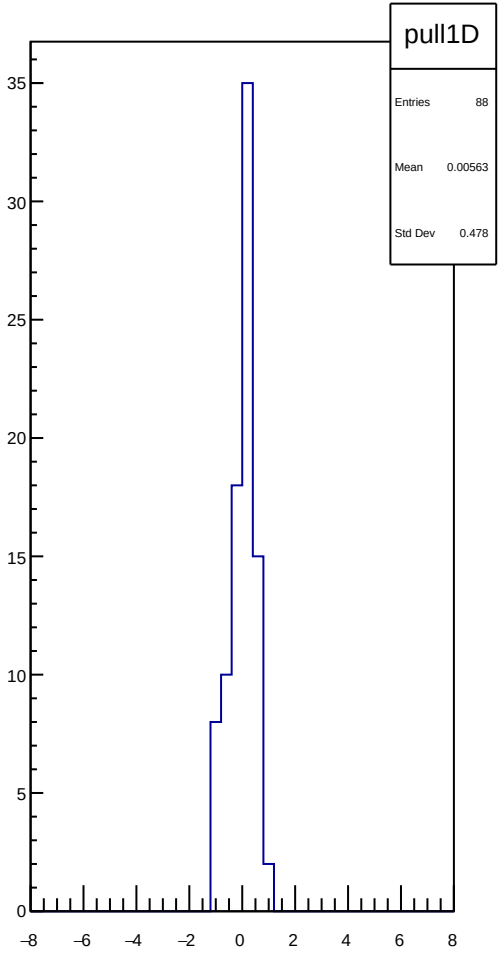

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.322 / 87
p0 0.4979 ± 0.03383
pull
Entries 88
Mean 52.62
Std Dev 0
pull1D
Entries 88
Mean −0.01263
Std Dev 0.162

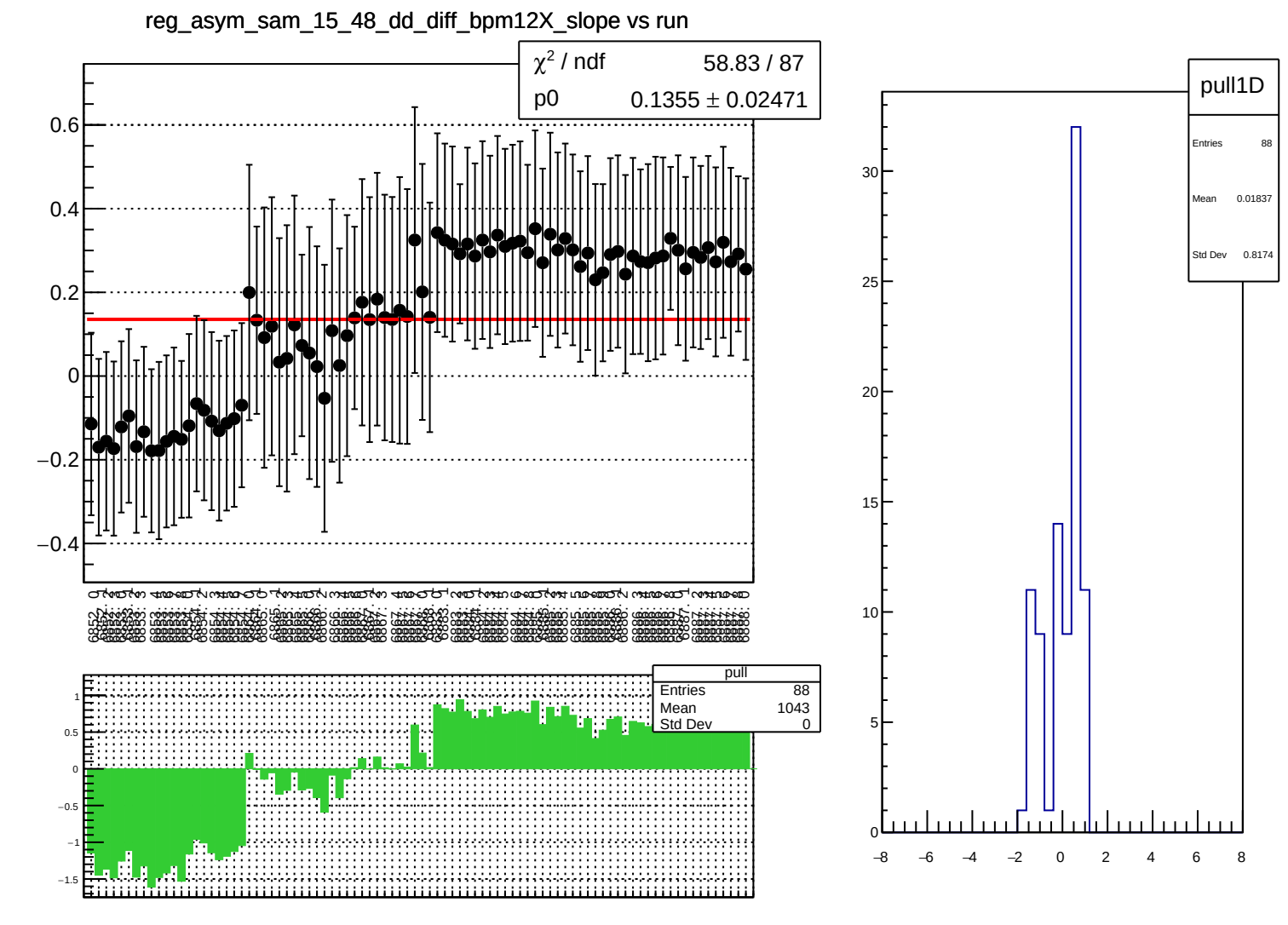

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 147.9 / 87
p0 7.793 ± 0.6658
pull
Entries 88
Mean 29.66
Std Dev 0
pull1D
Entries 88
Mean 0.05754
Std Dev 1.295

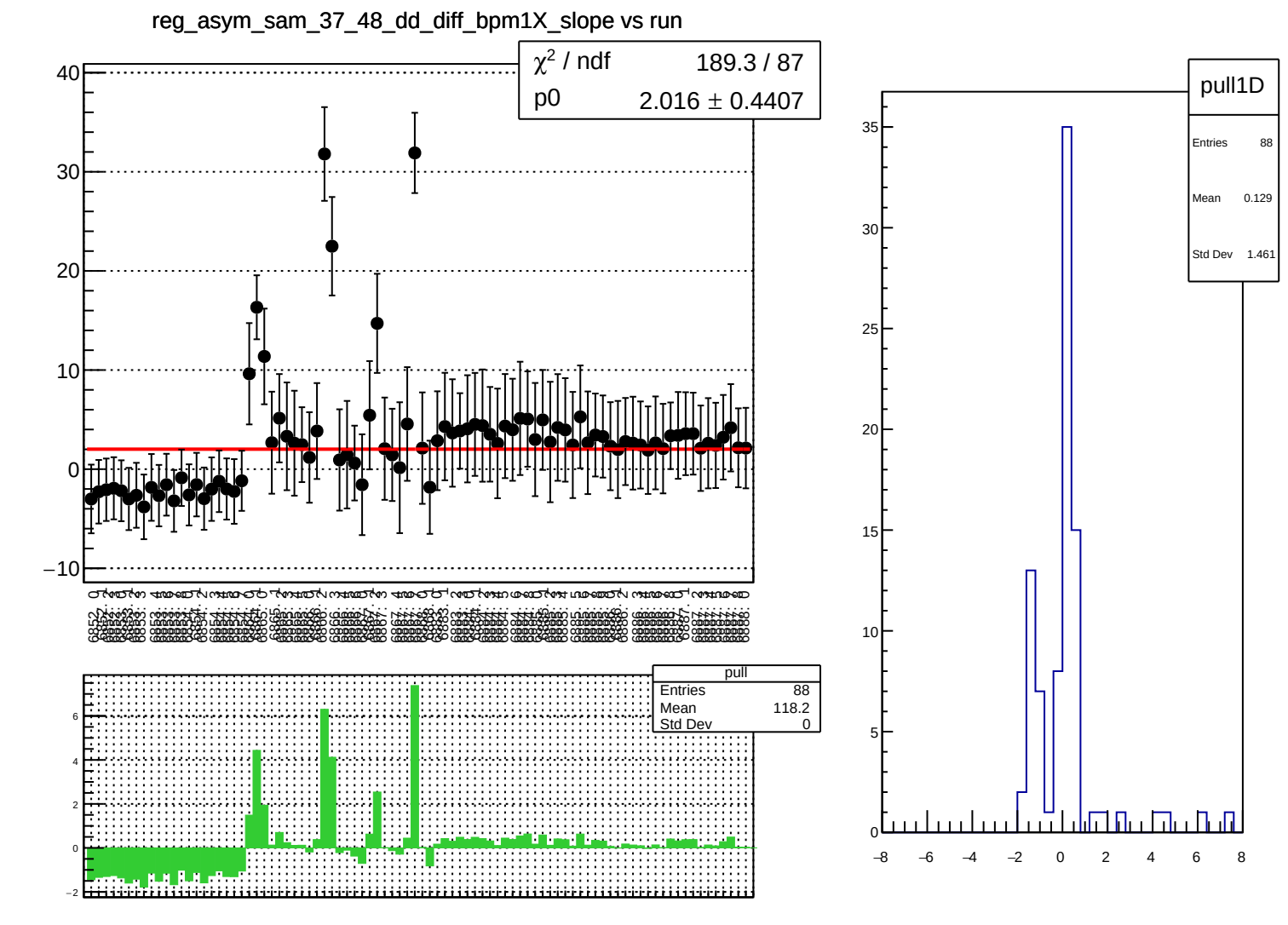

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.79 / 87
p0 8.43 ± 0.3627
pull
Entries 88
Mean 12.45
Std Dev 75.96
pull1D
Entries 88
Mean −0.02585
Std Dev 0.5082

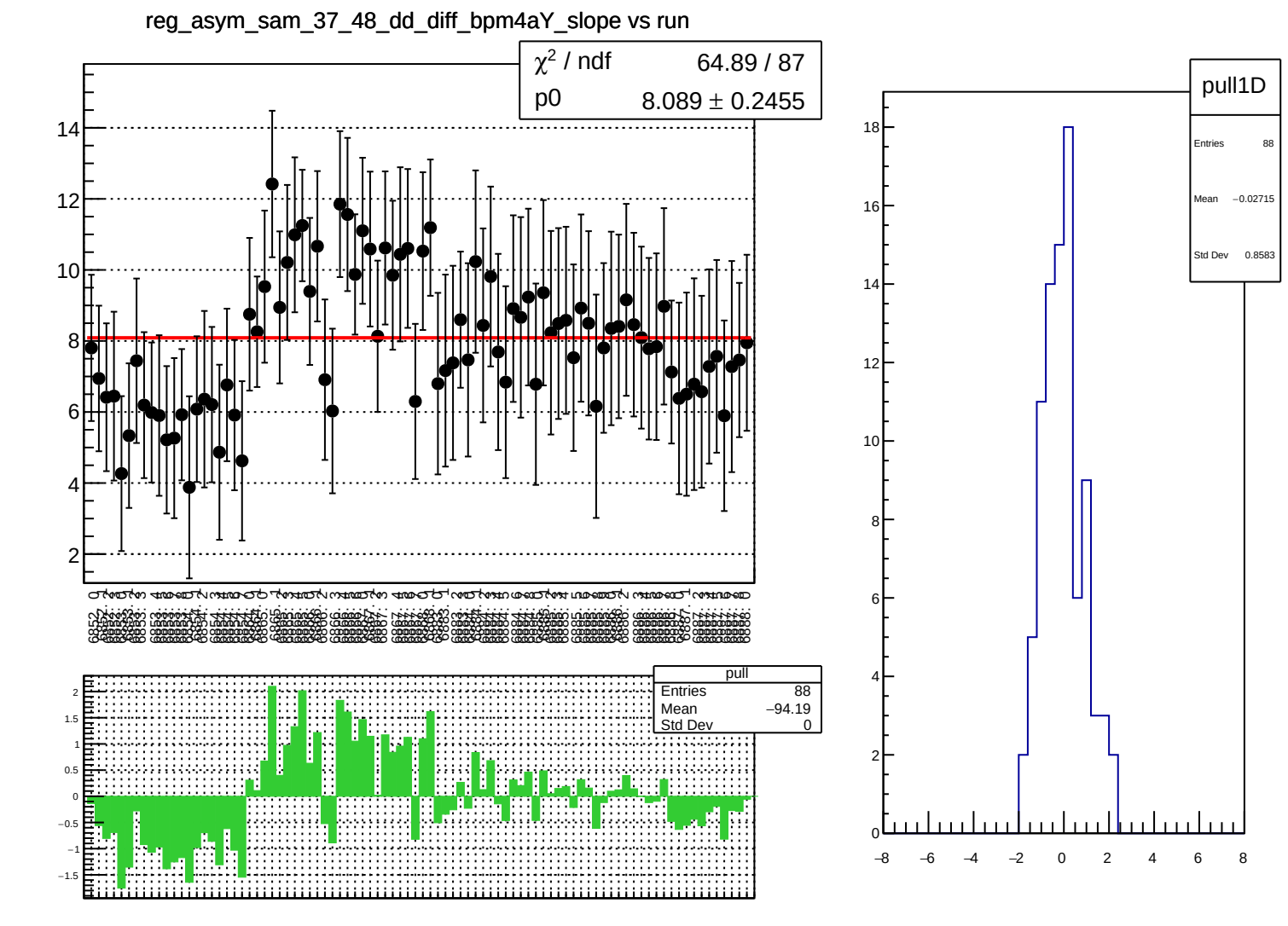

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 115.8 / 87
p0 47.08 ± 0.635
pull
Entries 88
Mean 20.4
Std Dev 0
pull1D
Entries 88
Mean −0.05056
Std Dev 1.146

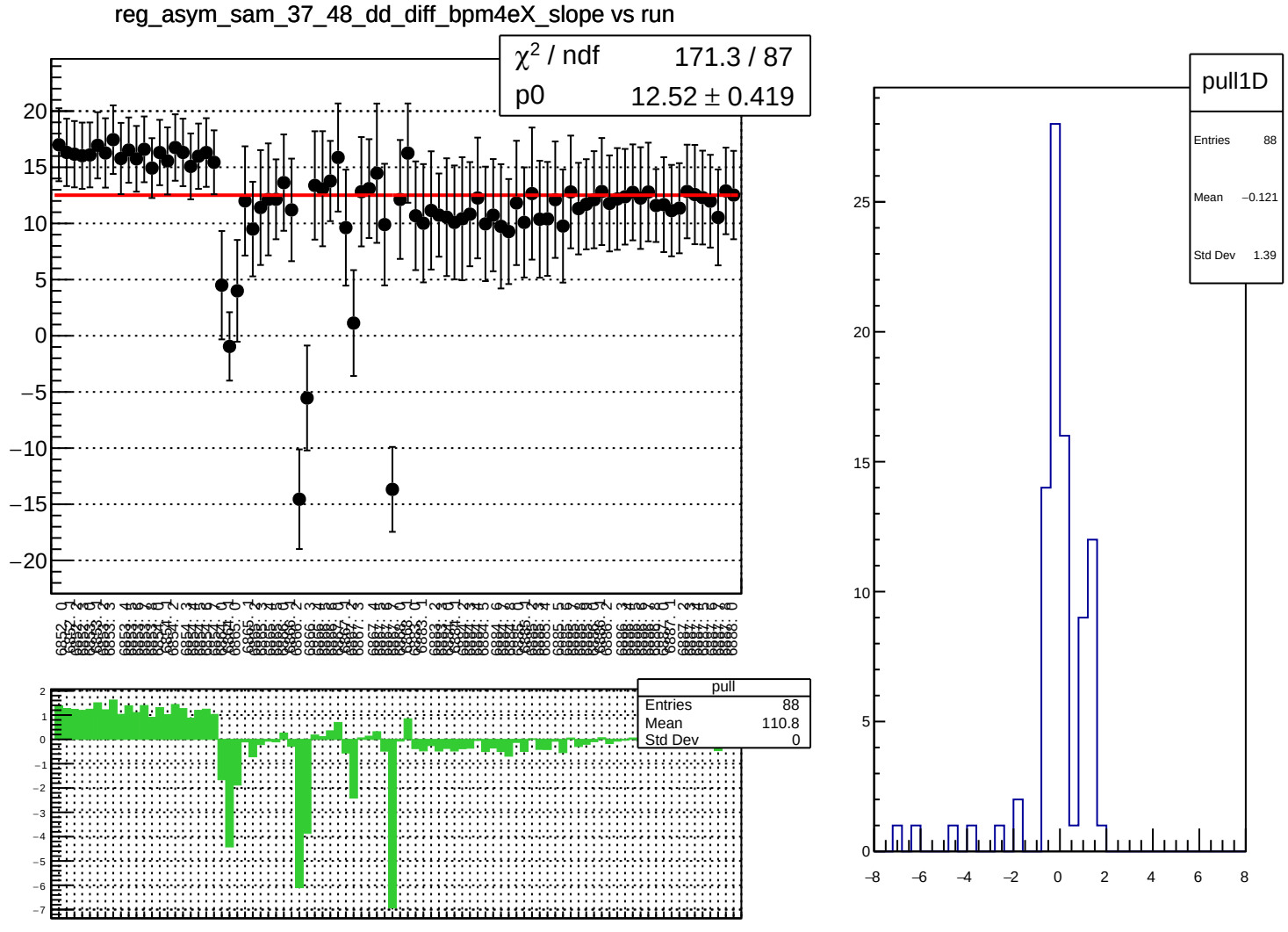

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.11 / 87
p0 −42.55 ± 0.4663
pull
Entries 88
Mean 48.83
Std Dev 167.5

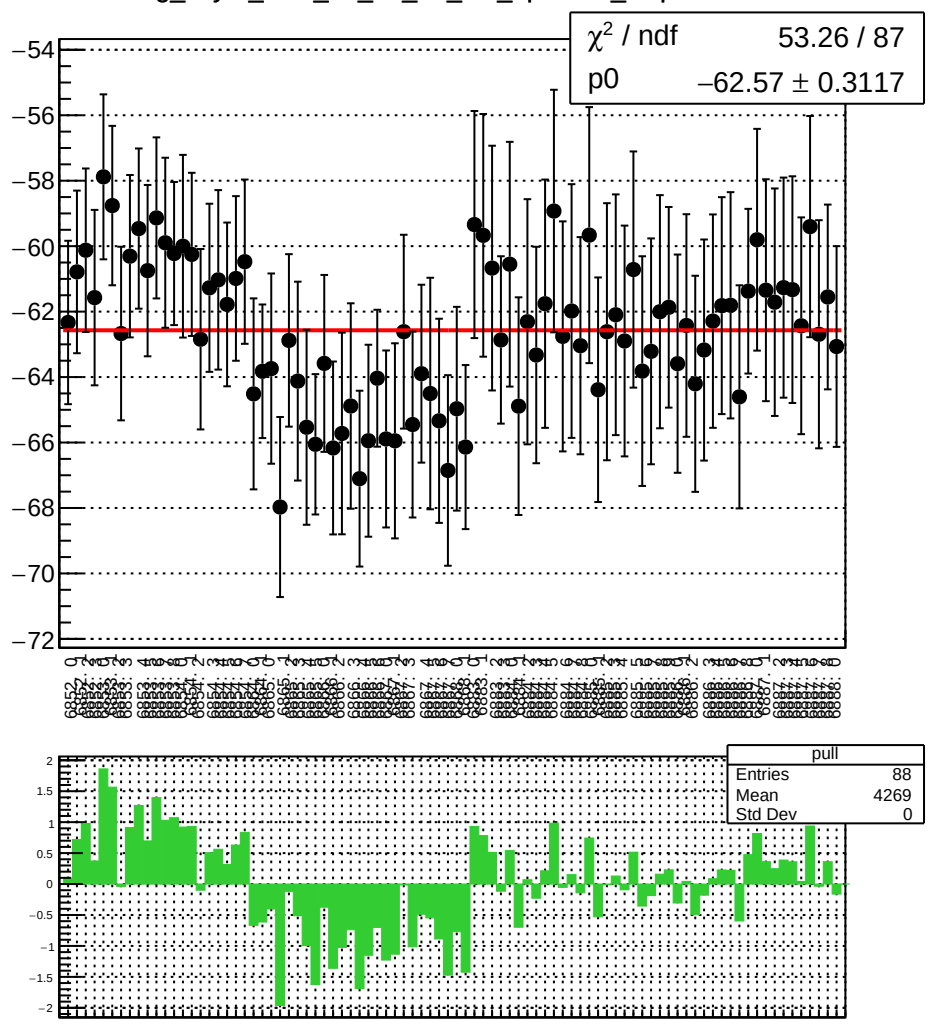

pull1D
Entries 88
Mean 0.00563
Std Dev 0.478

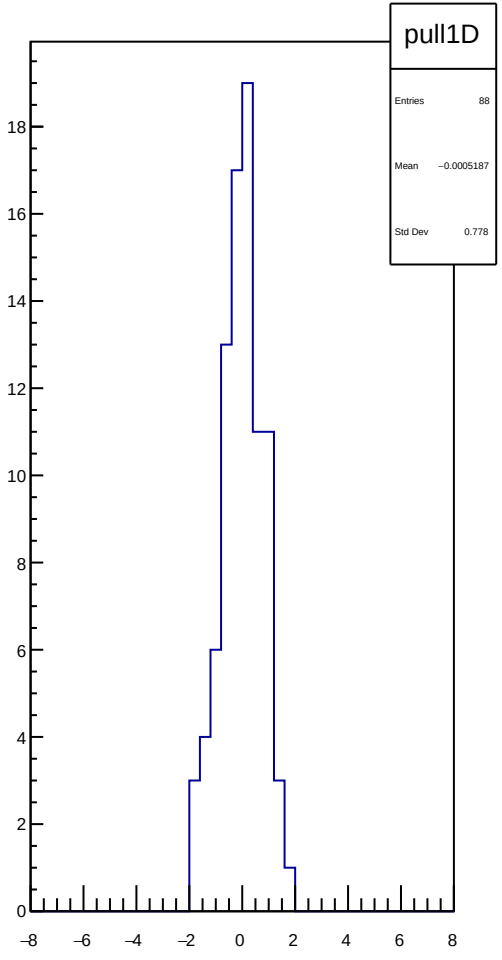

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 58.83 / 87
p0 0.1355 ± 0.02471
pull
Entries 88
Mean 1043
Std Dev 0
pull1D
Entries 88
Mean 0.01837
Std Dev 0.8174

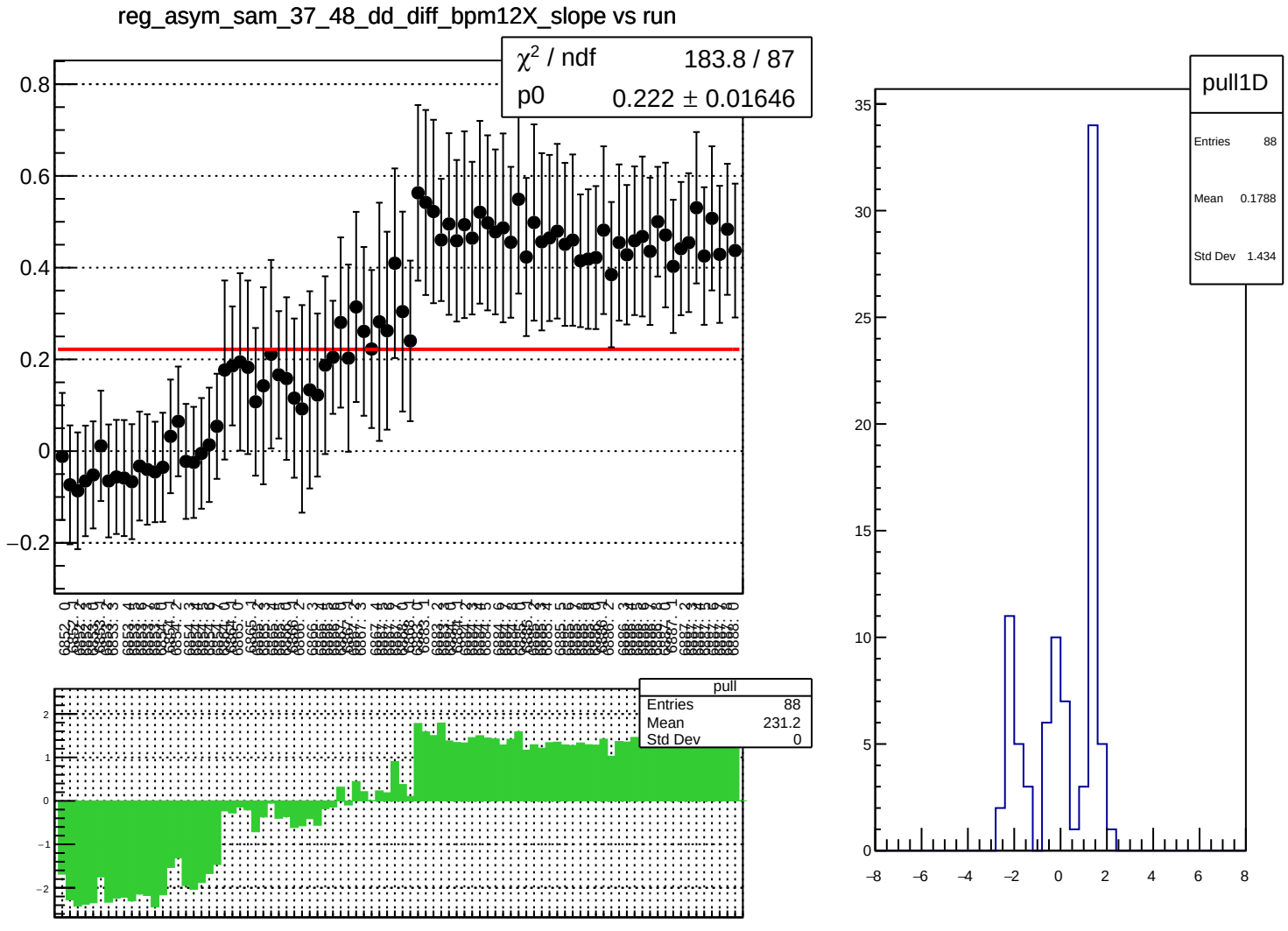

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 189.3 / 87
p0 2.016 ± 0.4407
pull
Entries 88
Mean 118.2
Std Dev 0
pull1D
Entries 88
Mean 0.129
Std Dev 1.461

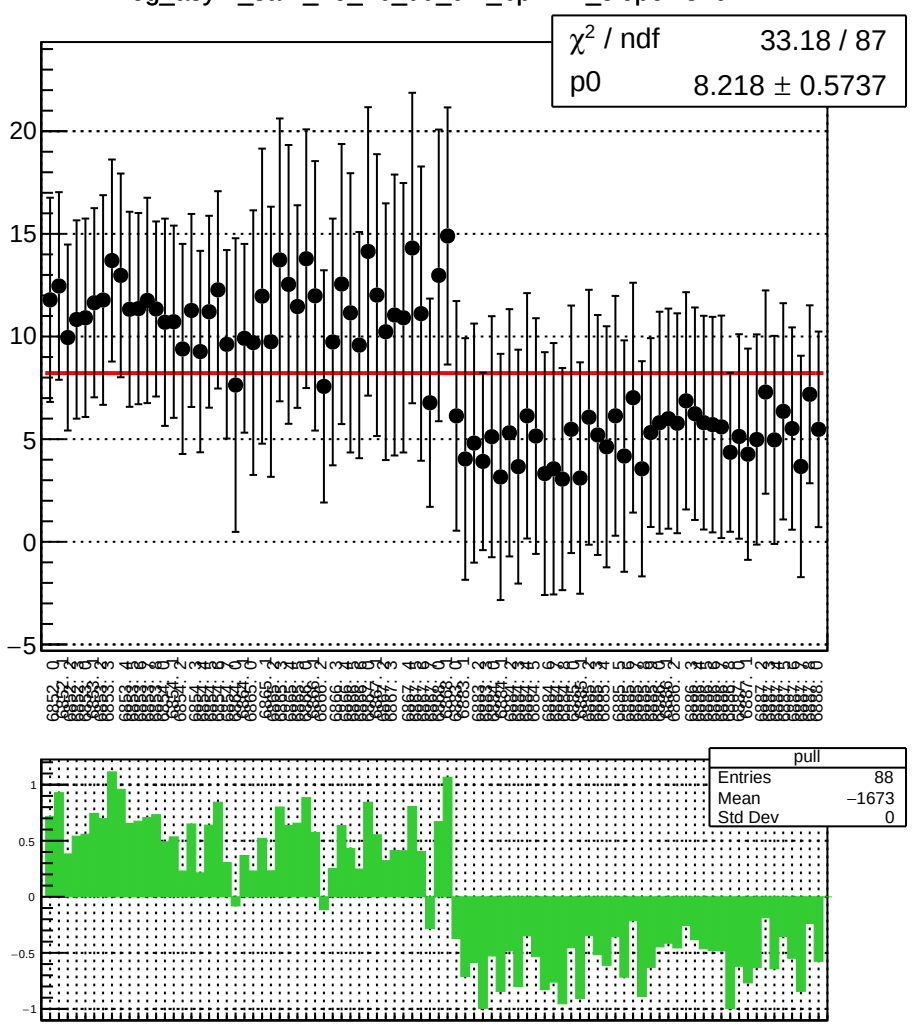

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.89 / 87
p0 8.089 ± 0.2455
pull
Entries 88
Mean −94.19
Std Dev 0
pull1D
Entries 88
Mean −0.02715
Std Dev 0.8583

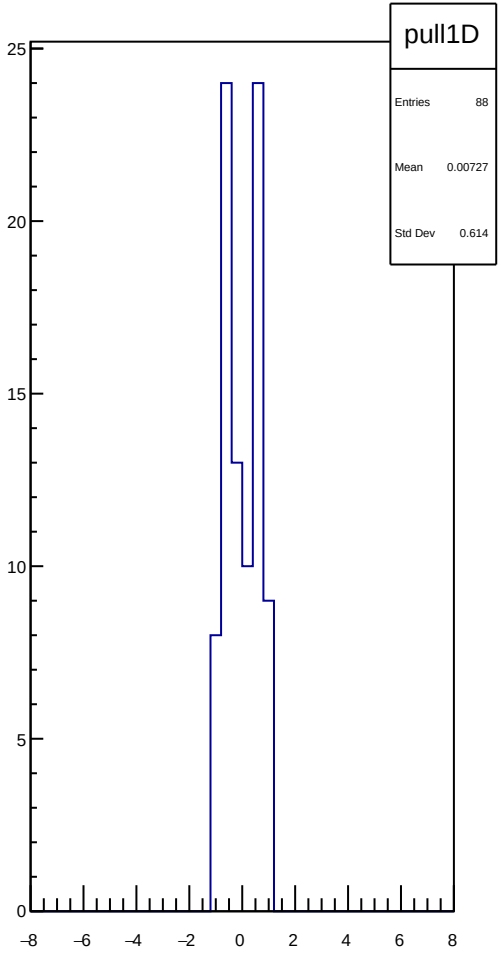

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 171.3 / 87
p0 12.52 ± 0.419
pull
Entries 88
Mean 110.8
Std Dev 0
pull1D
Entries 88
Mean −0.121
Std Dev 1.39

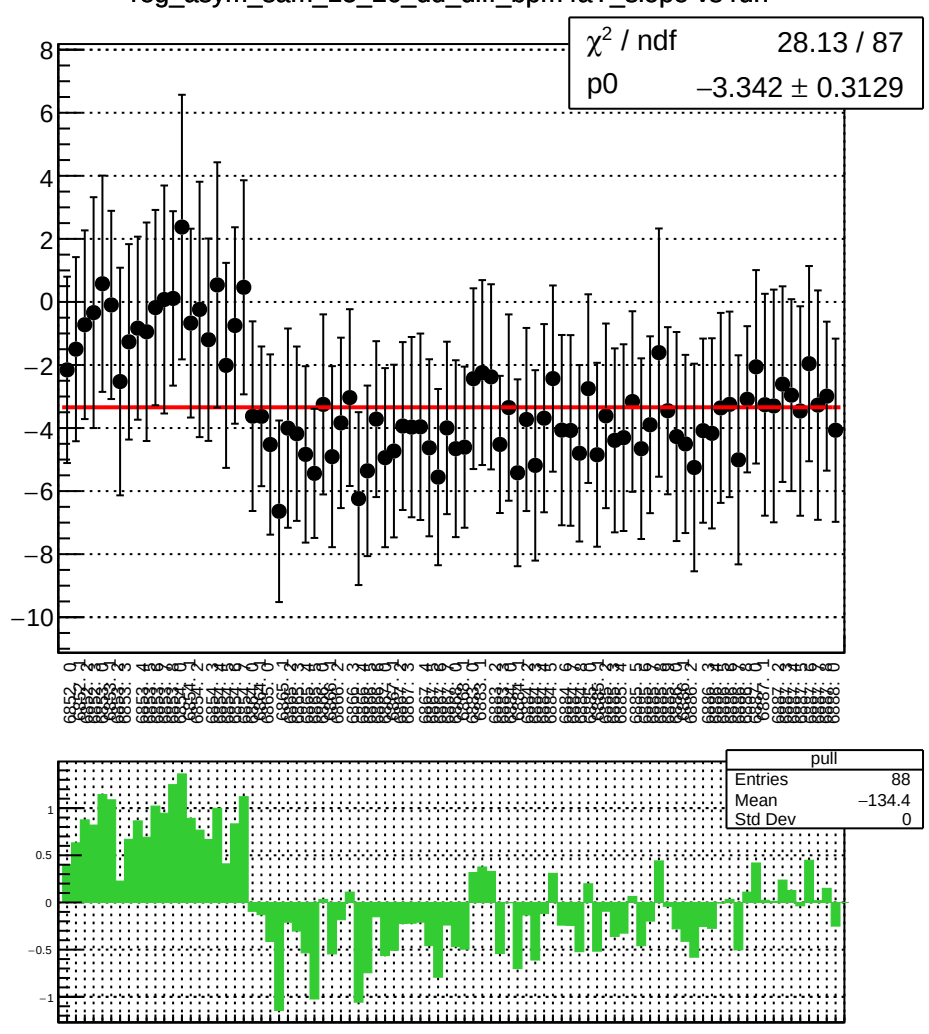

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.26 / 87
p0 −62.57 ± 0.3117
pull
Entries 88
Mean 4269
Std Dev 0

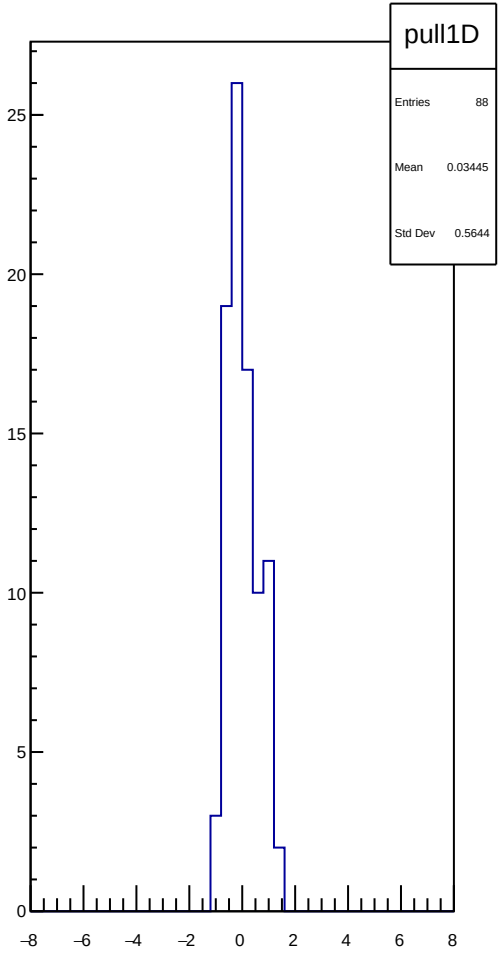

pull1D
Entries 88
Mean −0.0005187
Std Dev 0.778

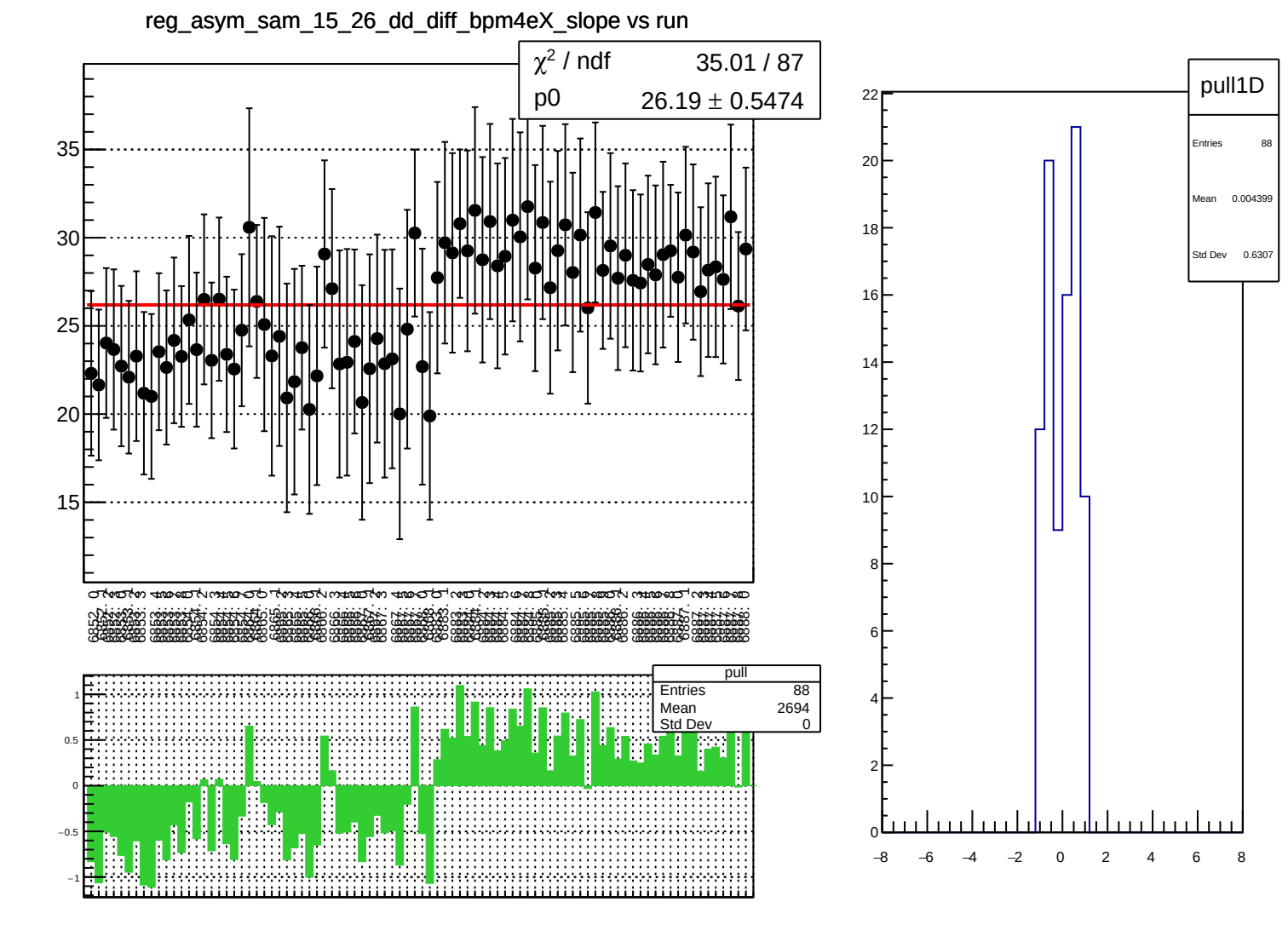

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 183.8 / 87
p0 0.222 ± 0.01646
pull
Entries 88
Mean 231.2
Std Dev 0
pull1D
Entries 88
Mean 0.1788
Std Dev 1.434

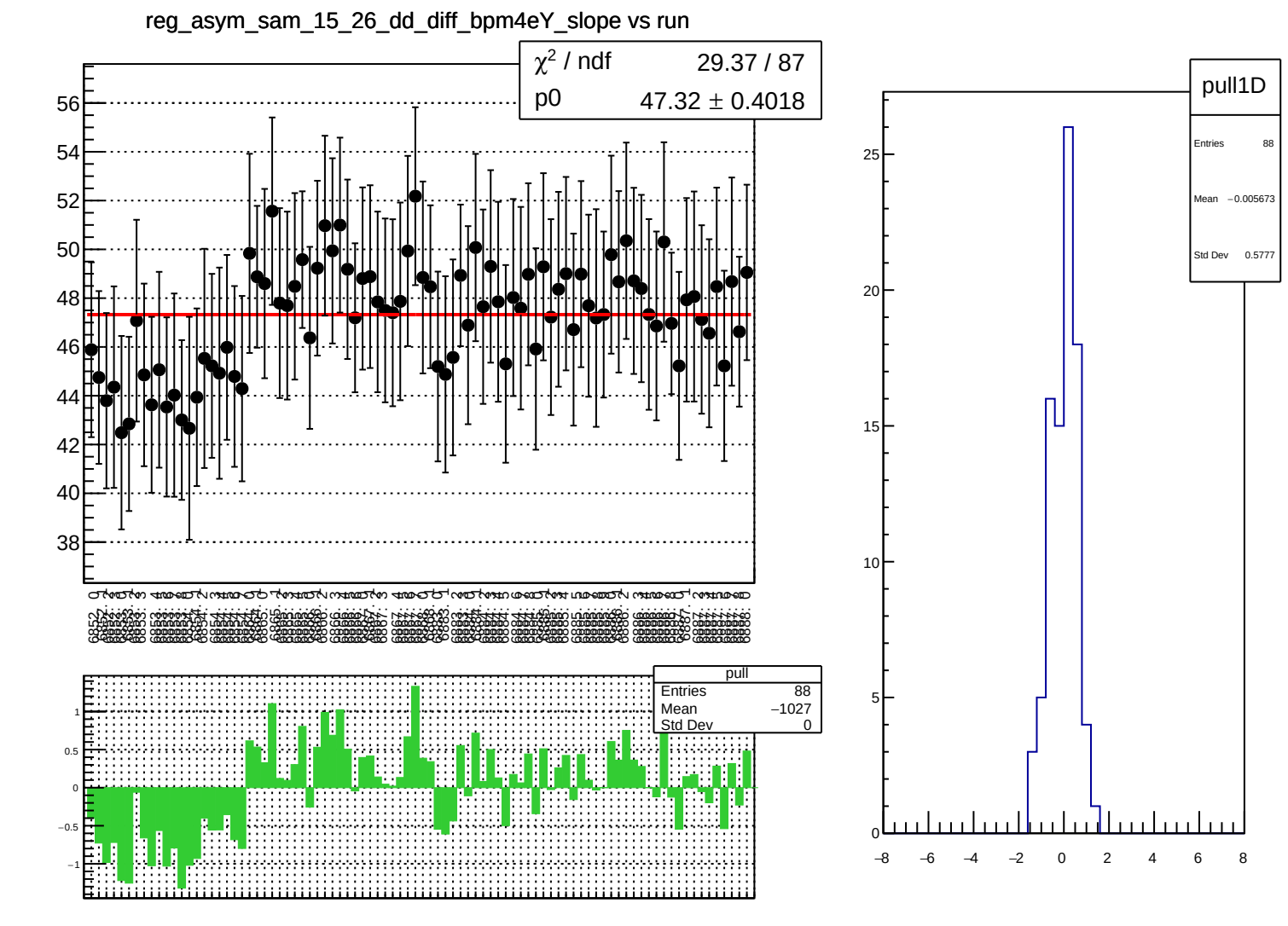

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 33.18 / 87
p0 8.218 ± 0.5737
pull
Entries 88
Mean −1673
Std Dev 0

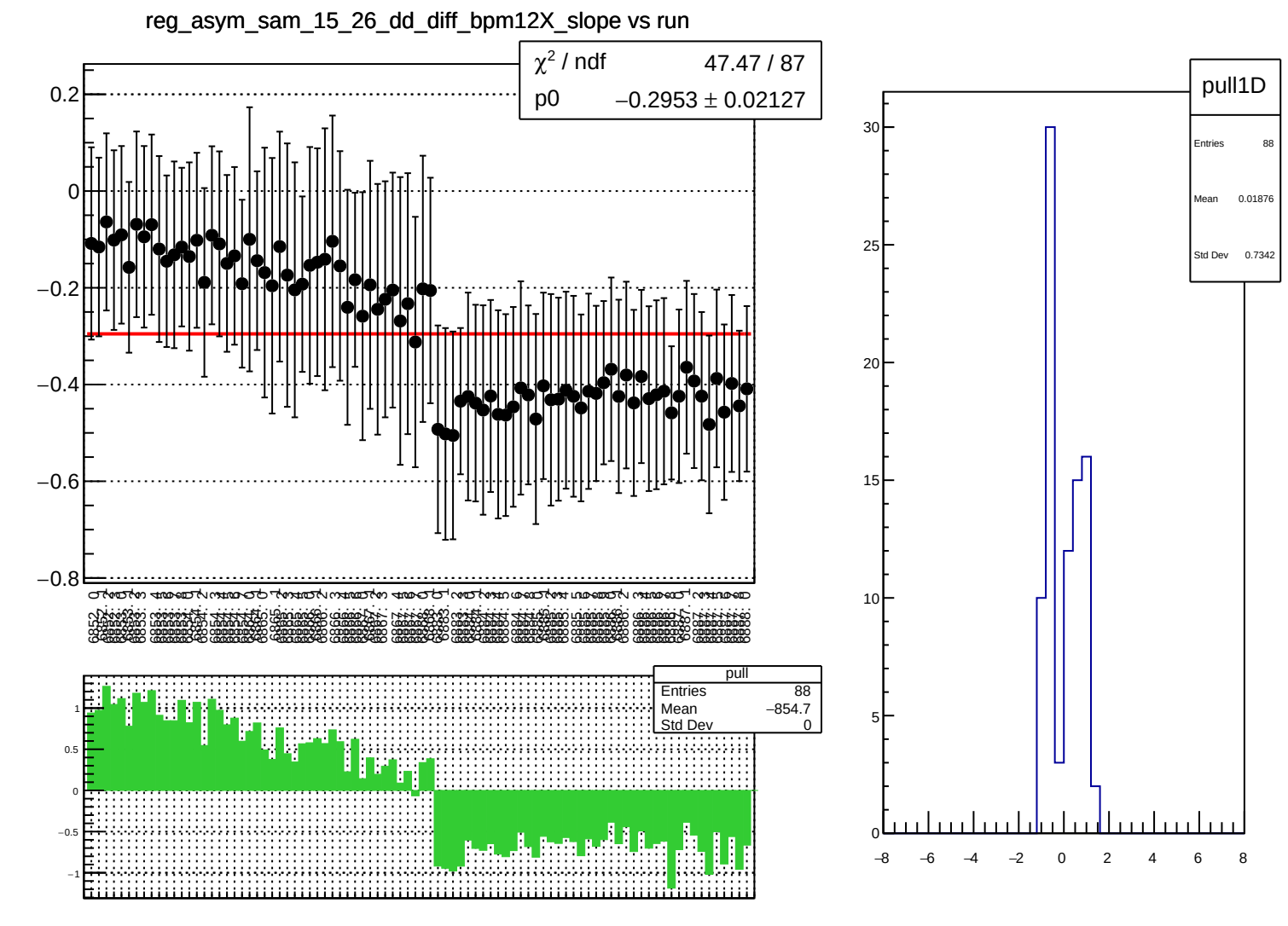

pull1D
Entries 88
Mean 0.00727
Std Dev 0.614

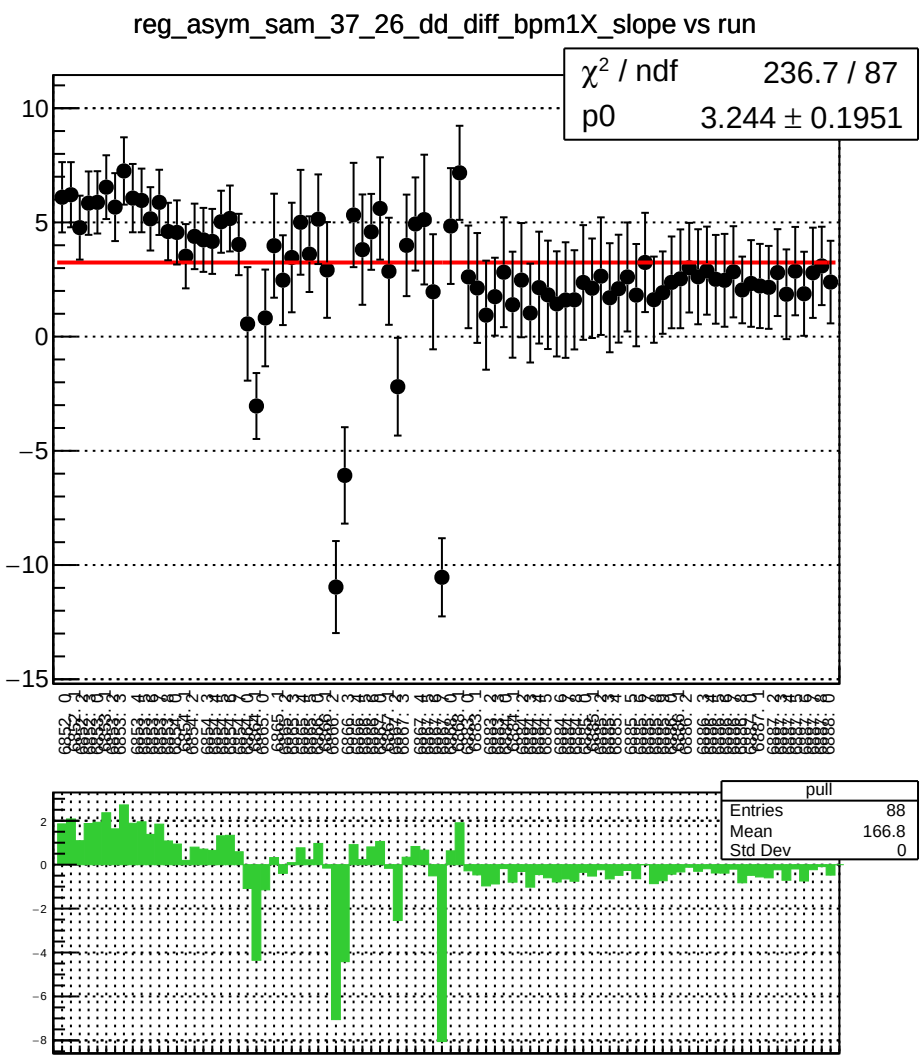

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.13 / 87
p0 −3.342 ± 0.3129
pull
Entries 88
Mean −134.4
Std Dev 0

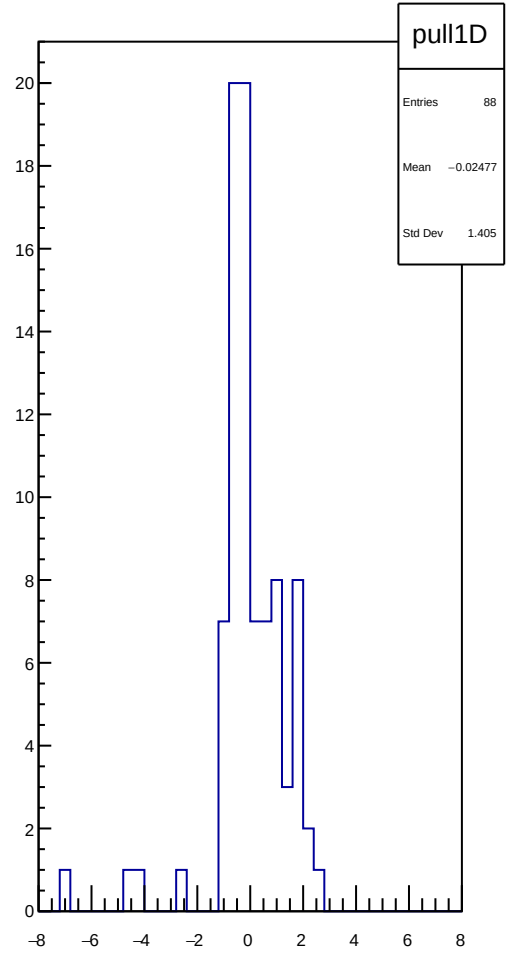

pull1D
Entries 88
Mean 0.03445
Std Dev 0.5644

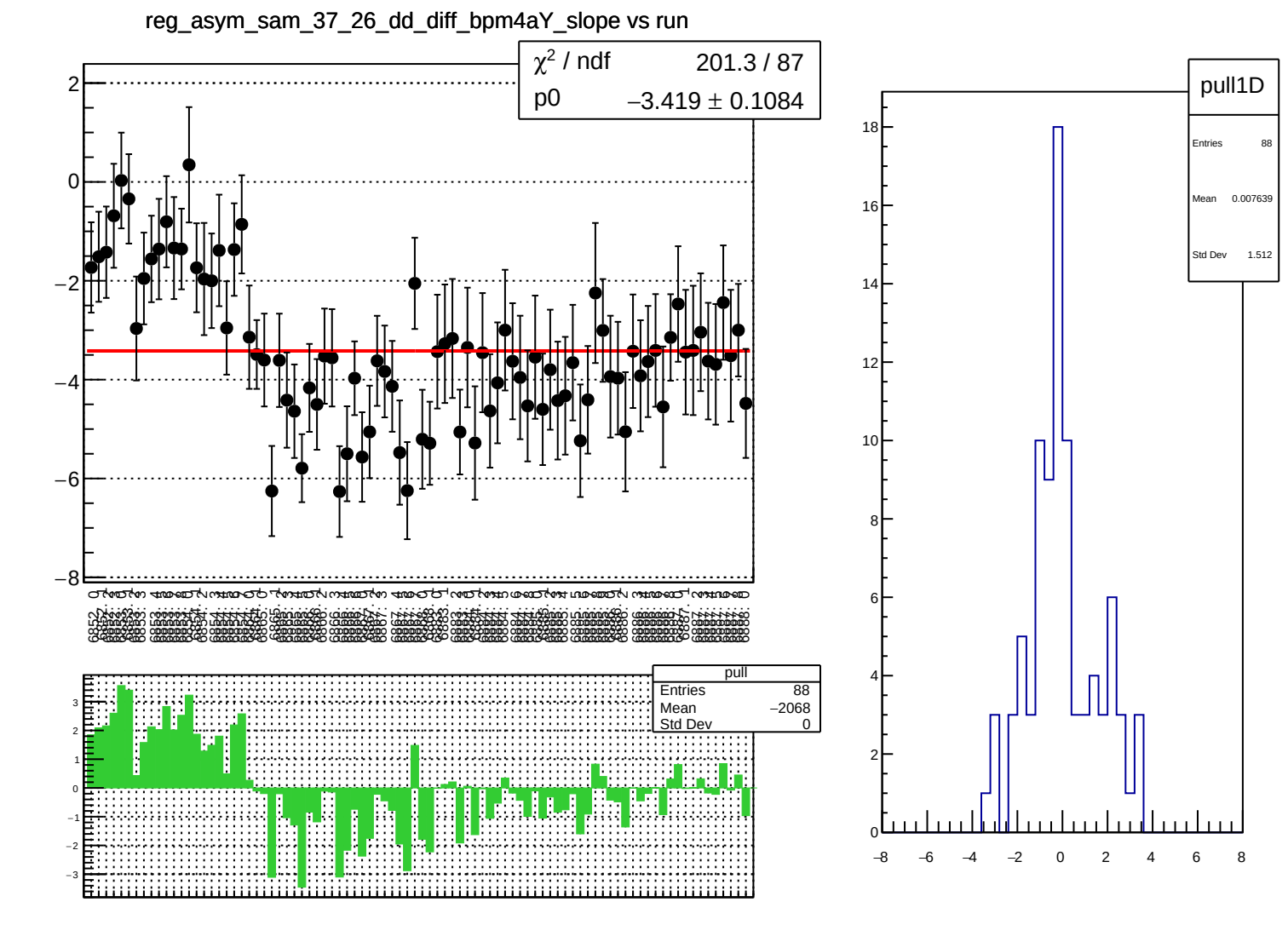

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.01 / 87
p0 26.19 ± 0.5474
pull
Entries 88
Mean 2694
Std Dev 0
pull1D
Entries 88
Mean 0.004399
Std Dev 0.6307

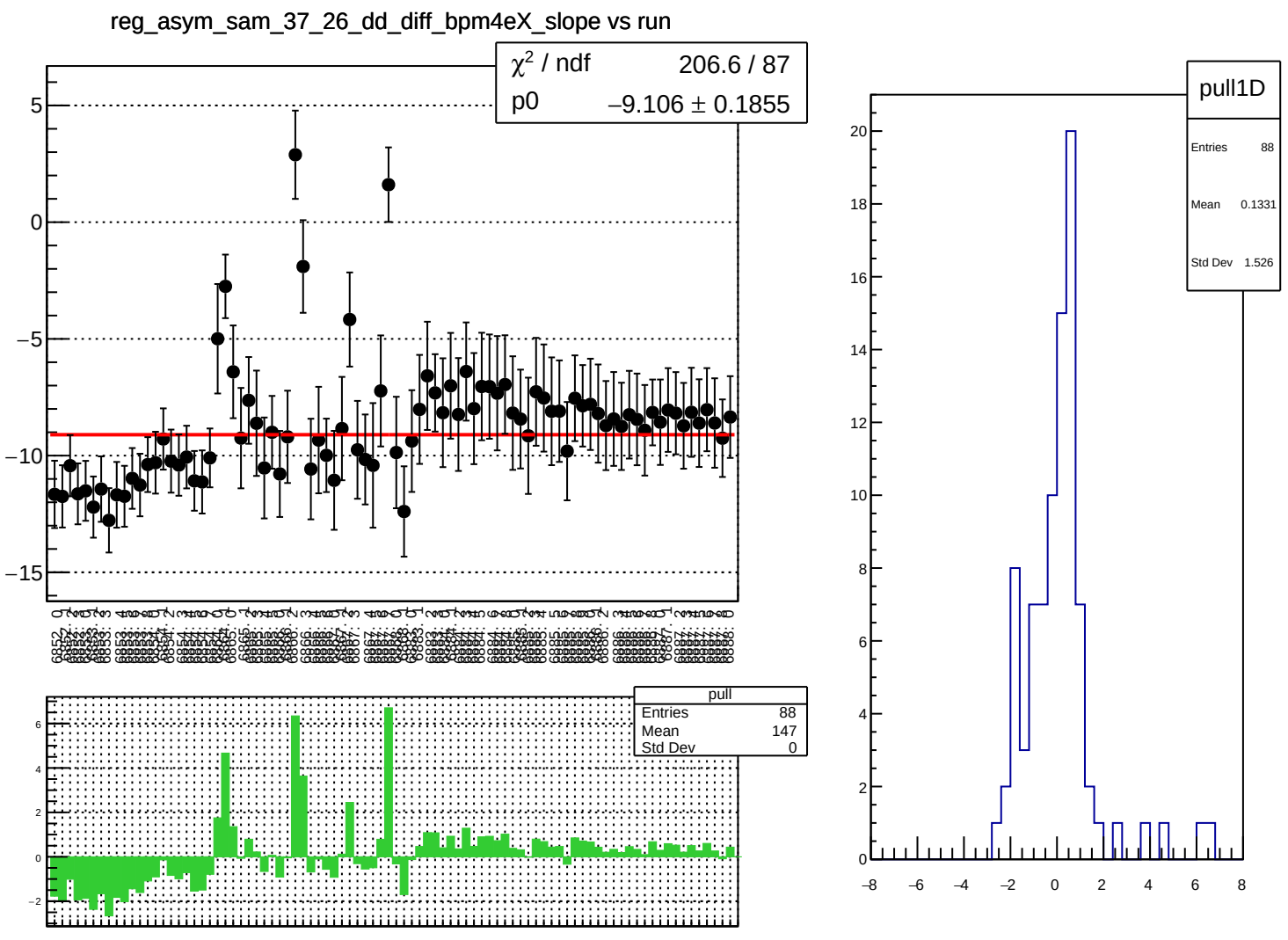

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.37 / 87
p0 47.32 ± 0.4018
pull
Entries 88
Mean −1027
Std Dev 0
pull1D
Entries 88
Mean −0.005673
Std Dev 0.5777

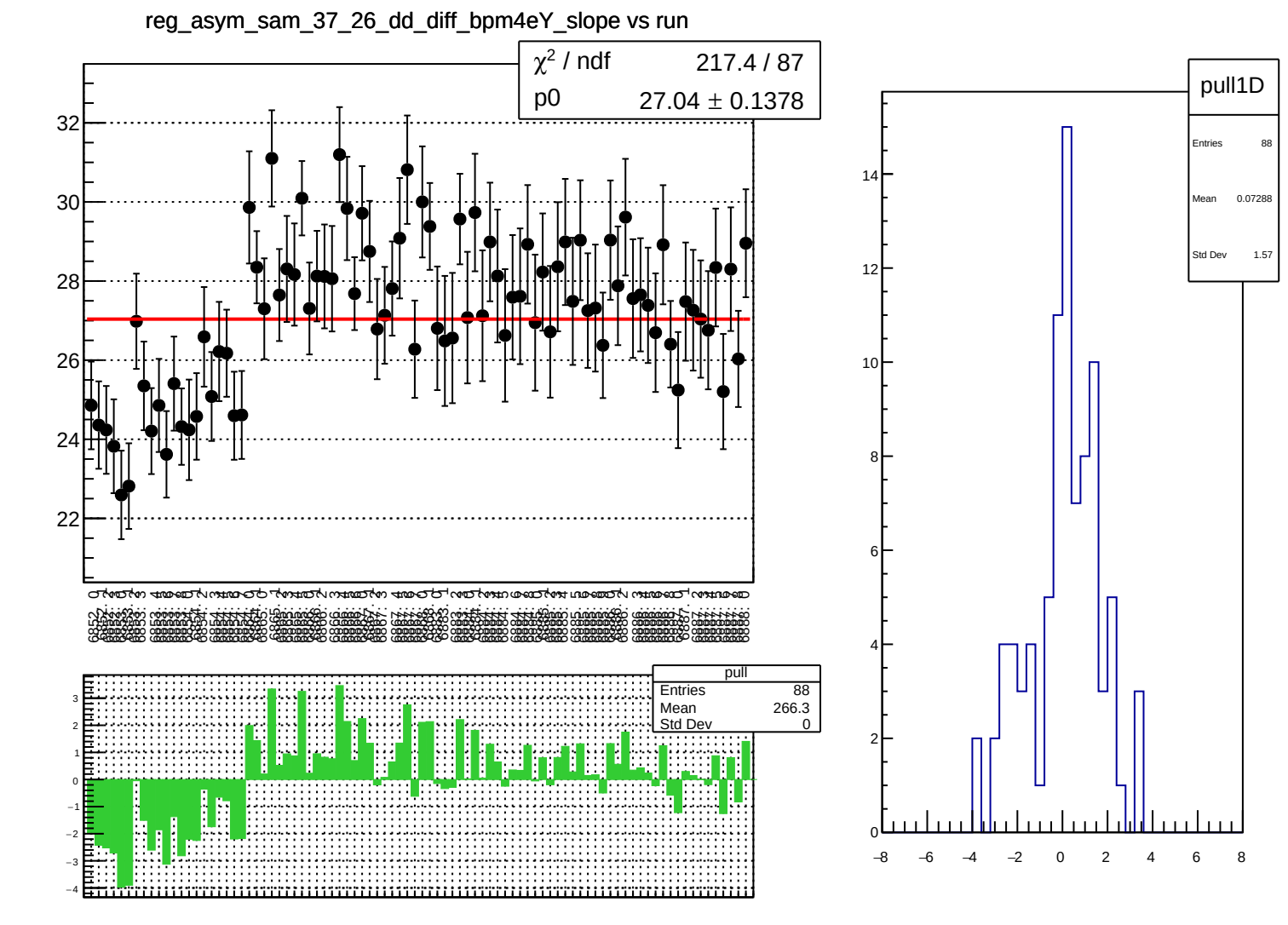

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 47.47 / 87
p0 −0.2953 ± 0.02127
pull
Entries 88
Mean −854.7
Std Dev 0
pull1D
Entries 88
Mean 0.01876
Std Dev 0.7342

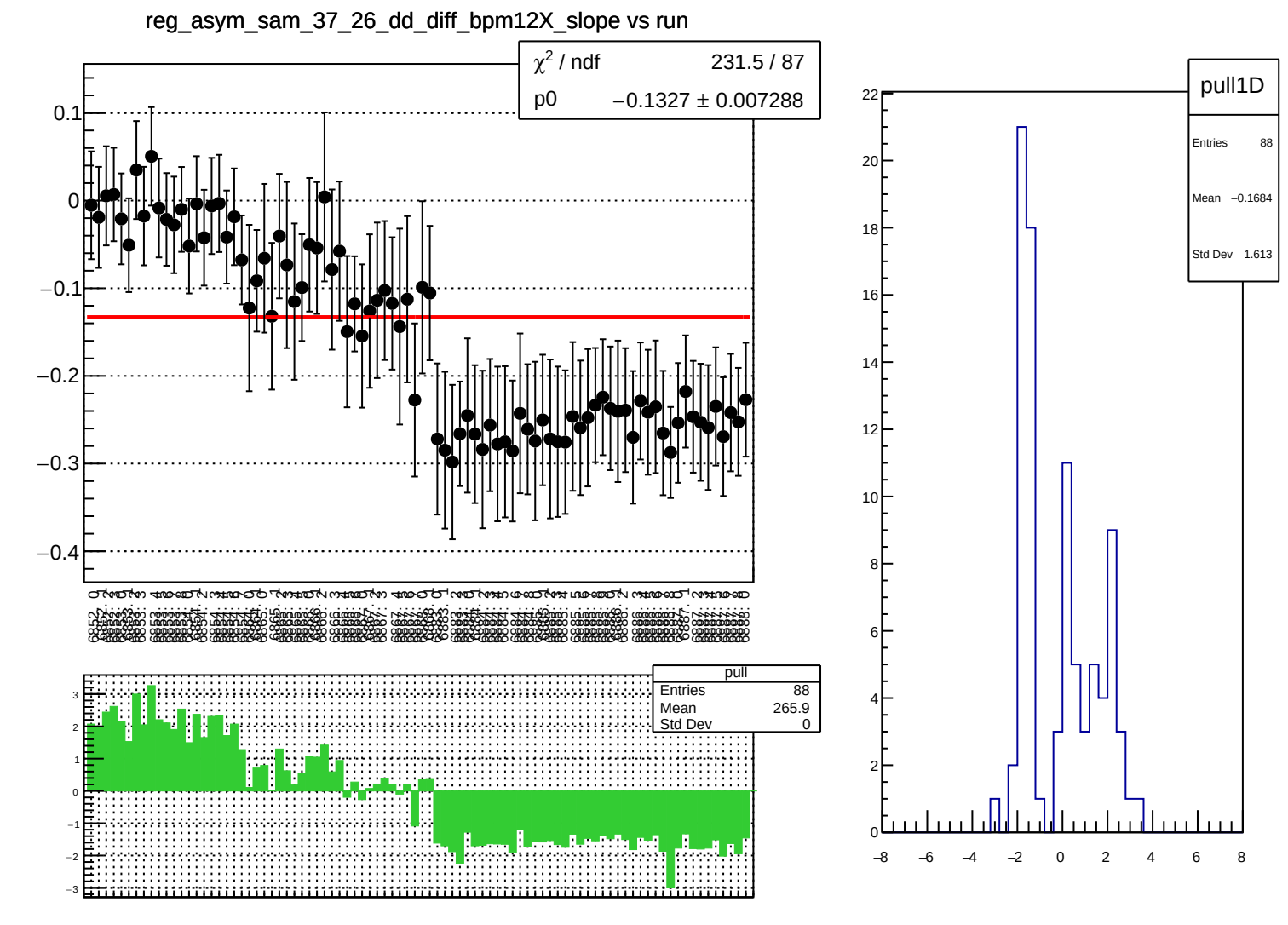

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 236.7 / 87
p0 3.244 ± 0.1951
pull
Entries 88
Mean 166.8
Std Dev 0

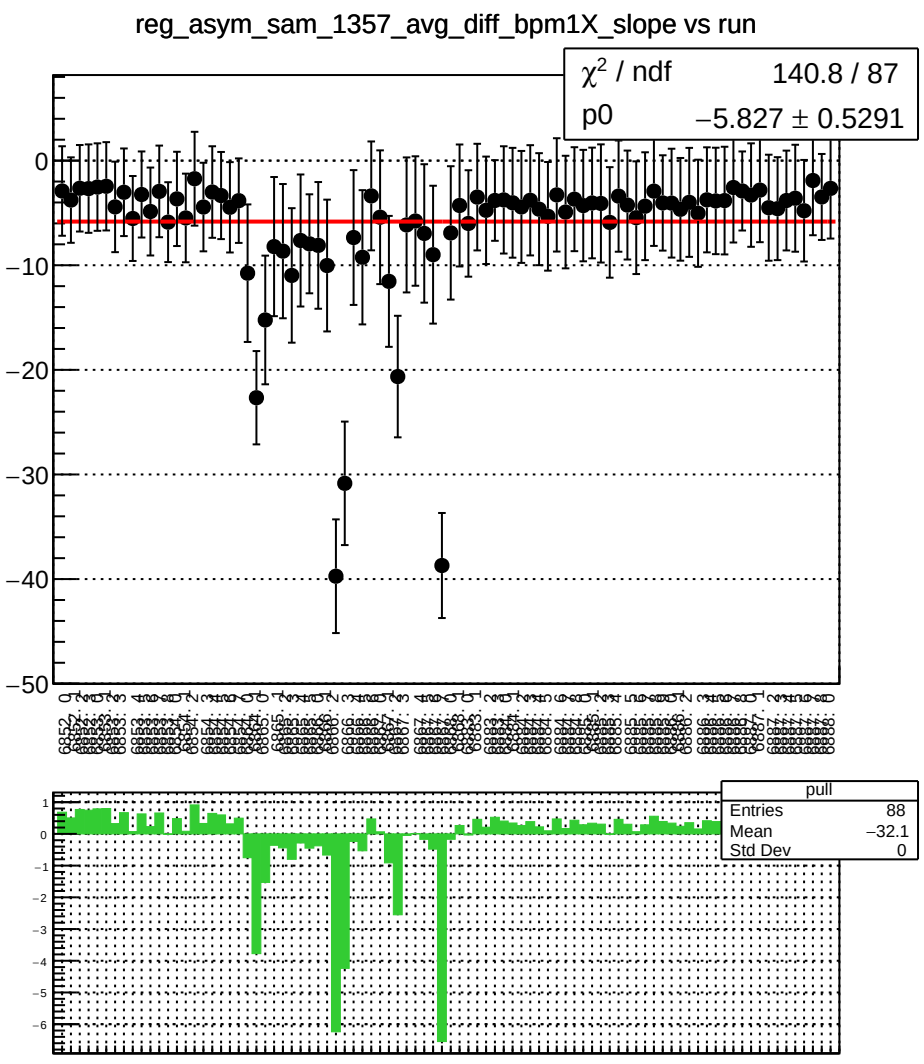

pull1D
Entries 88
Mean −0.02477
Std Dev 1.405

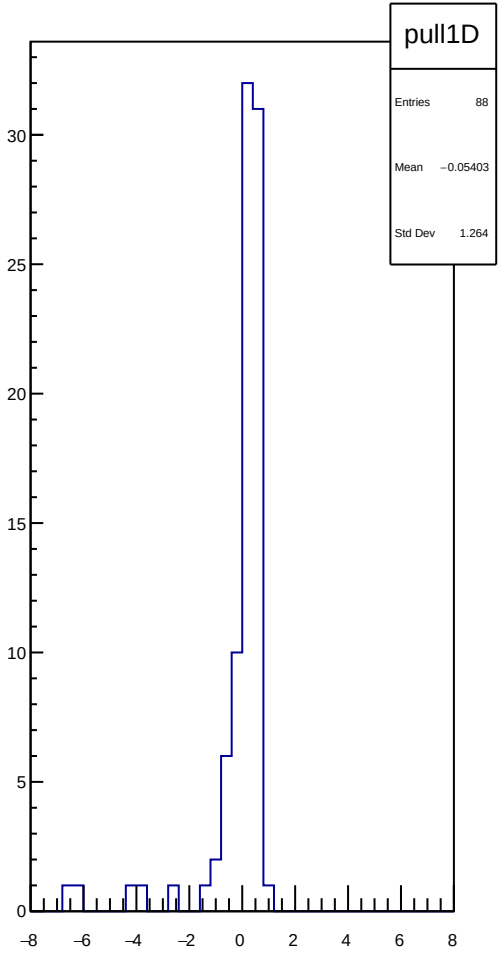

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 201.3 / 87
p0 −3.419 ± 0.1084
pull
Entries 88
Mean −2068
Std Dev 0
pull1D
Entries 88
Mean 0.007639
Std Dev 1.512

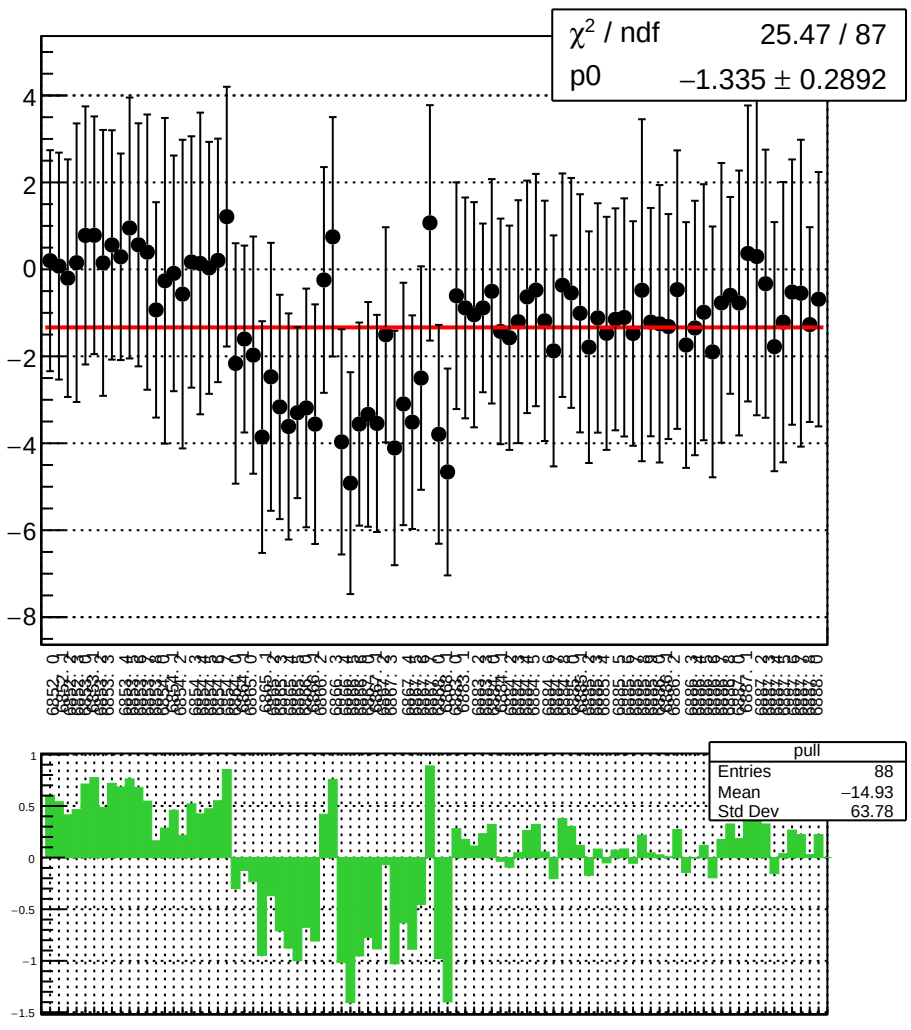

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 206.6 / 87
p0 −9.106 ± 0.1855
pull
Entries 88
Mean 147
Std Dev 0
pull1D
Entries 88
Mean 0.1331
Std Dev 1.526

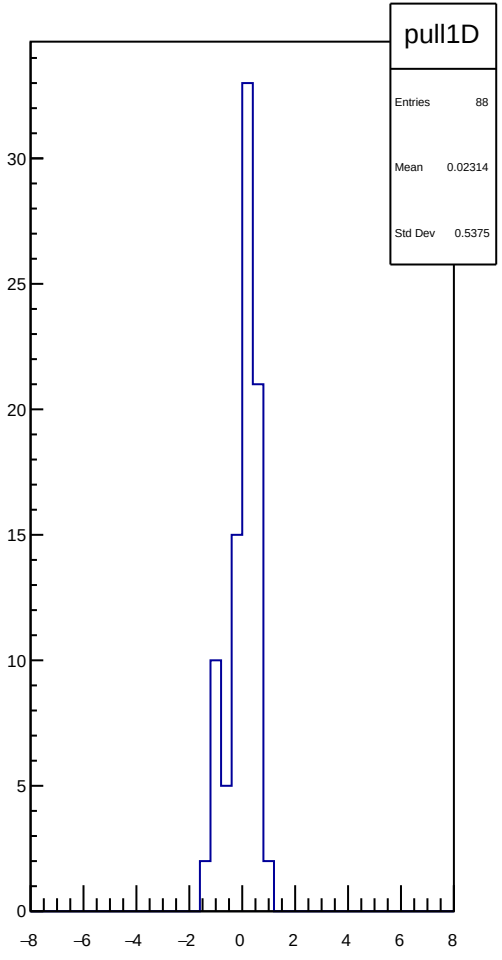

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 217.4 / 87
p0 27.04 ± 0.1378
32
30
28
26
24
22
pull
Entries 88
Mean 266.3
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean 0.07288
Std Dev 1.57
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

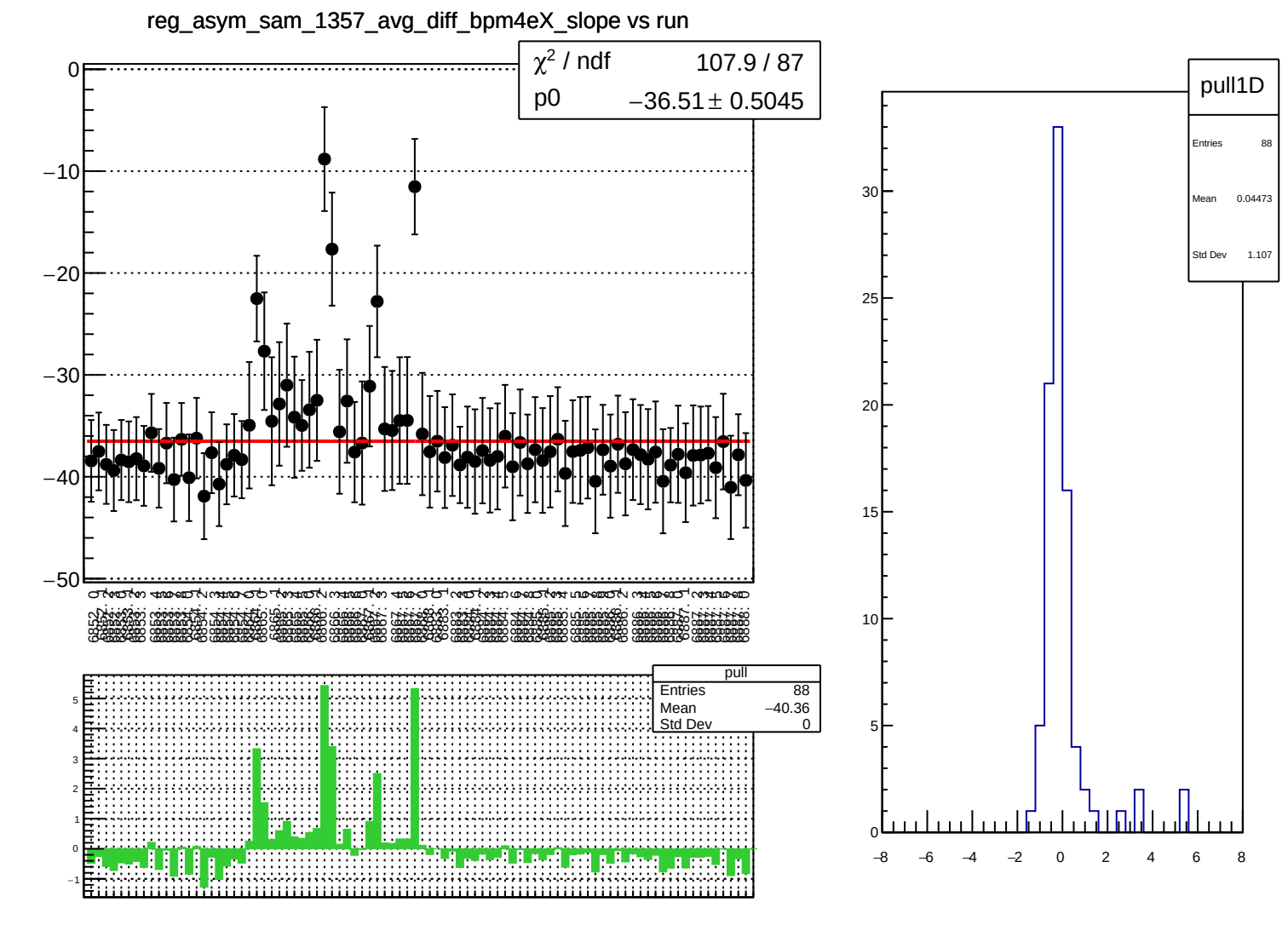

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 231.5 / 87
p0 −0.1327 ± 0.007288
pull
Entries 88
Mean 265.9
Std Dev 0
pull1D
Entries 88
Mean −0.1684
Std Dev 1.613

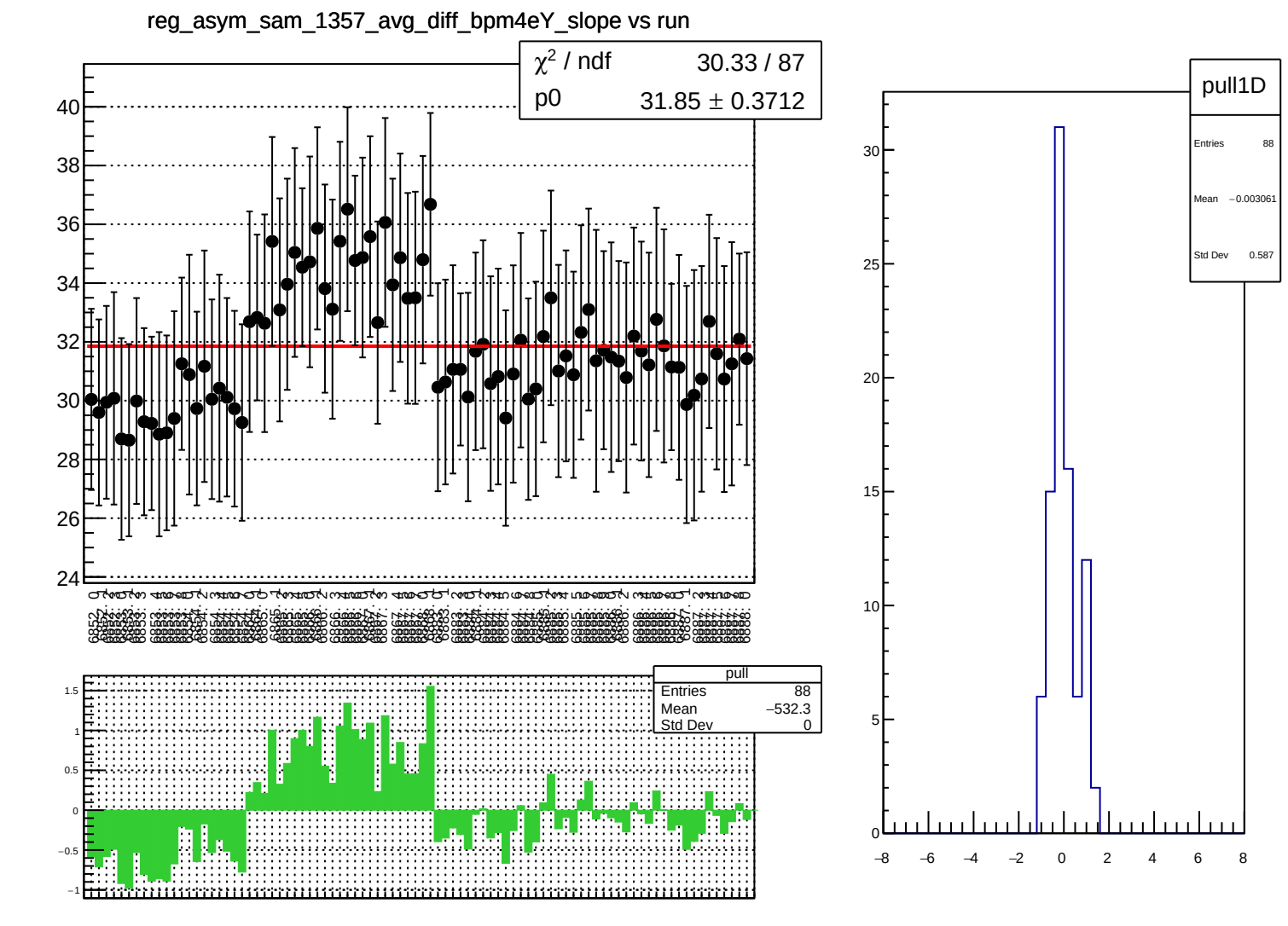

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 140.8 / 87
p0 −5.827 ± 0.5291
pull
Entries 88
Mean −32.1
Std Dev 0

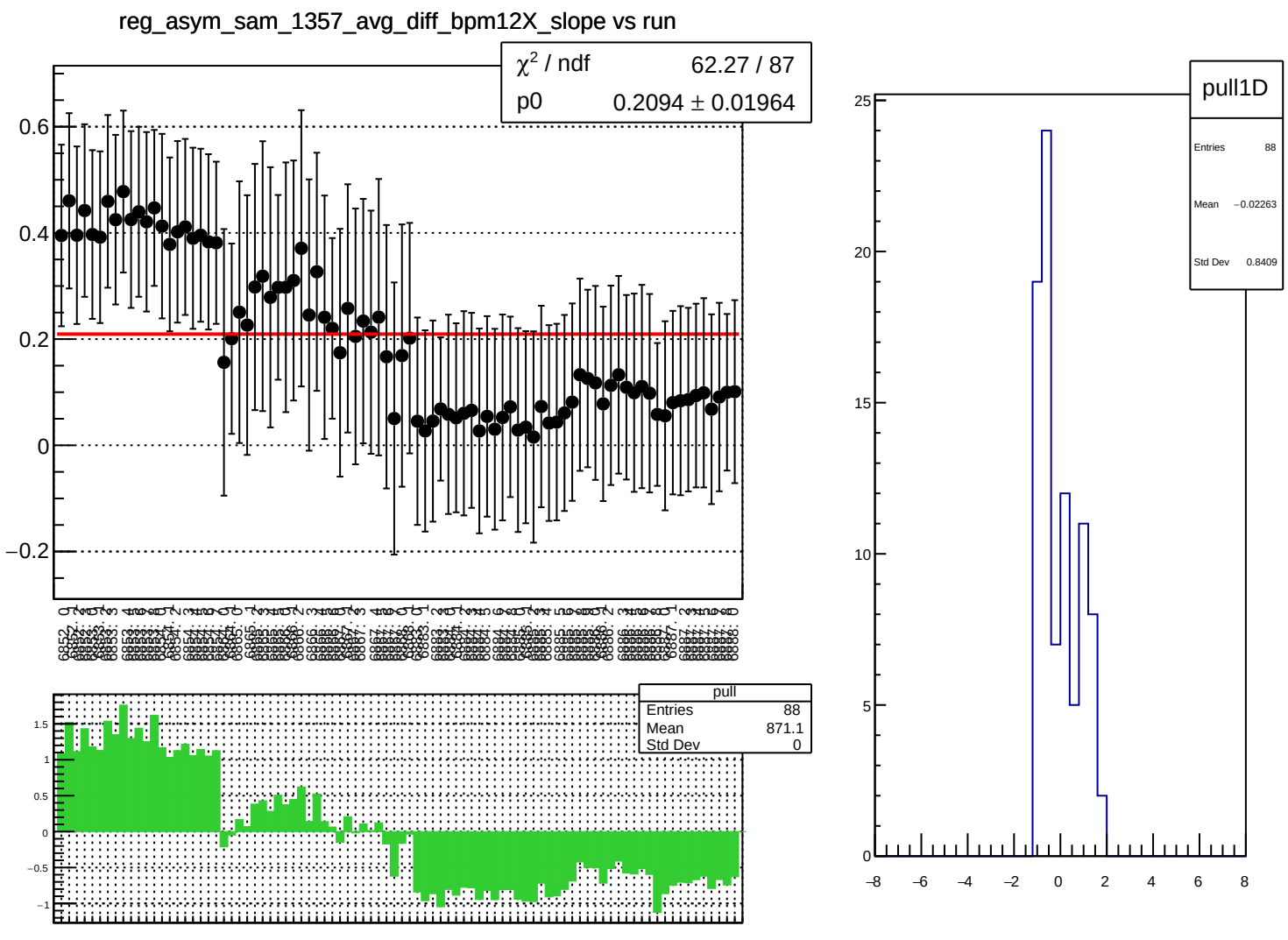

pull1D
Entries 88
Mean −0.05403
Std Dev 1.264

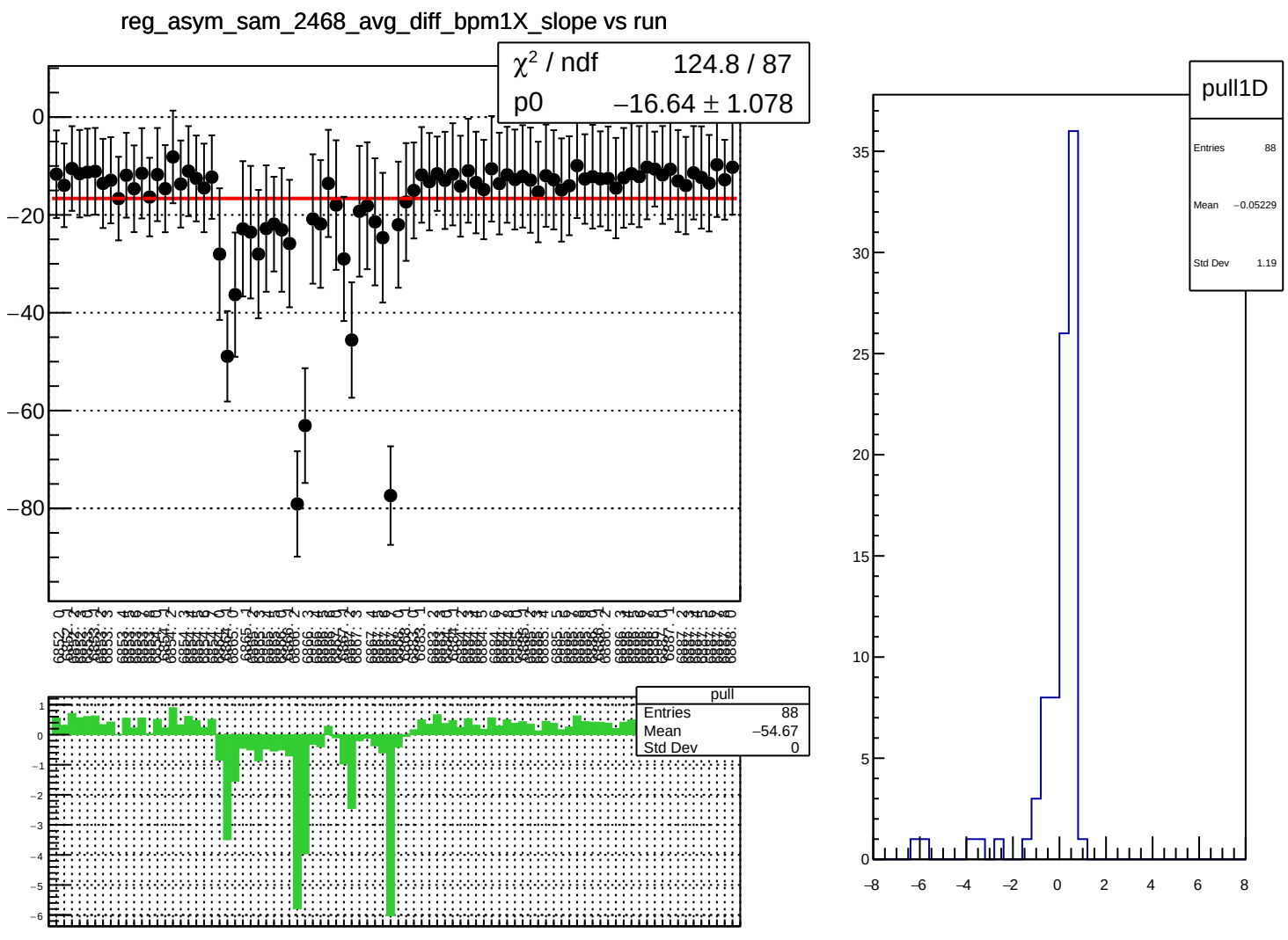

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.47 / 87
p0 −1.335 ± 0.2892
pull
Entries 88
Mean −14.93
Std Dev 63.78

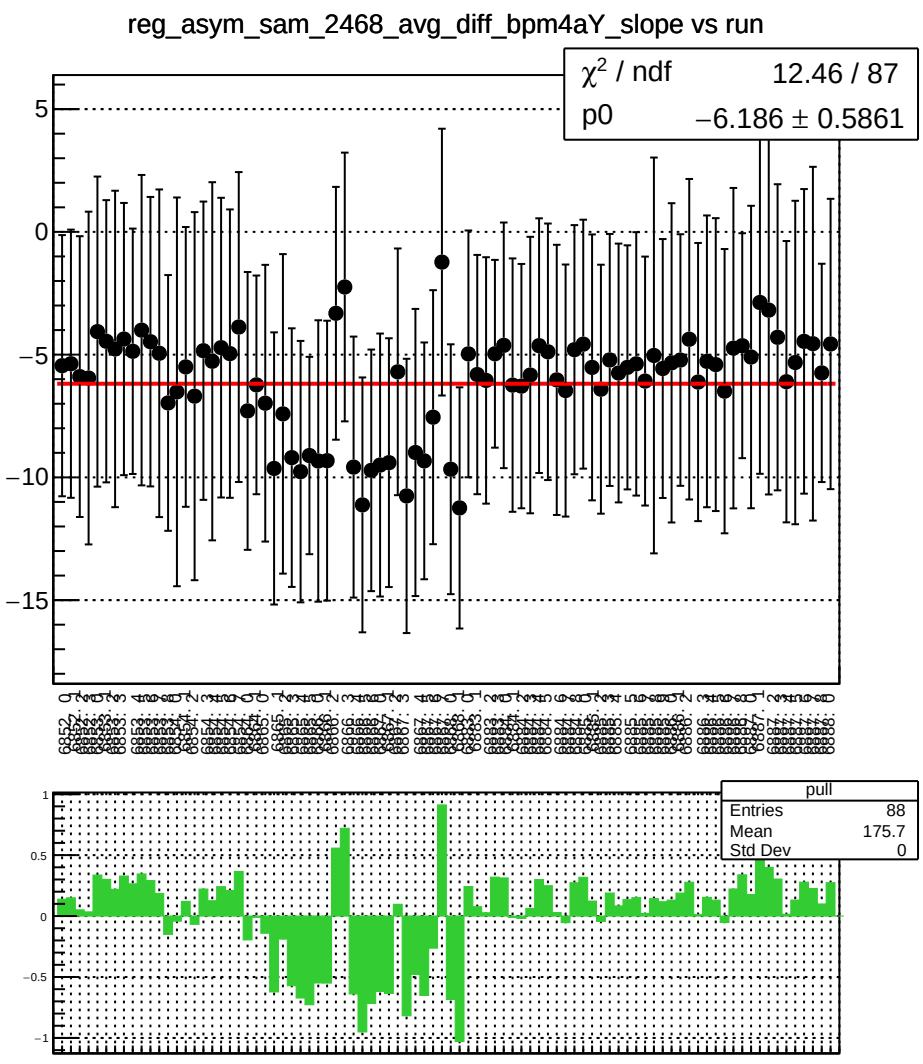

pull1D
Entries 88
Mean 0.02314
Std Dev 0.5375

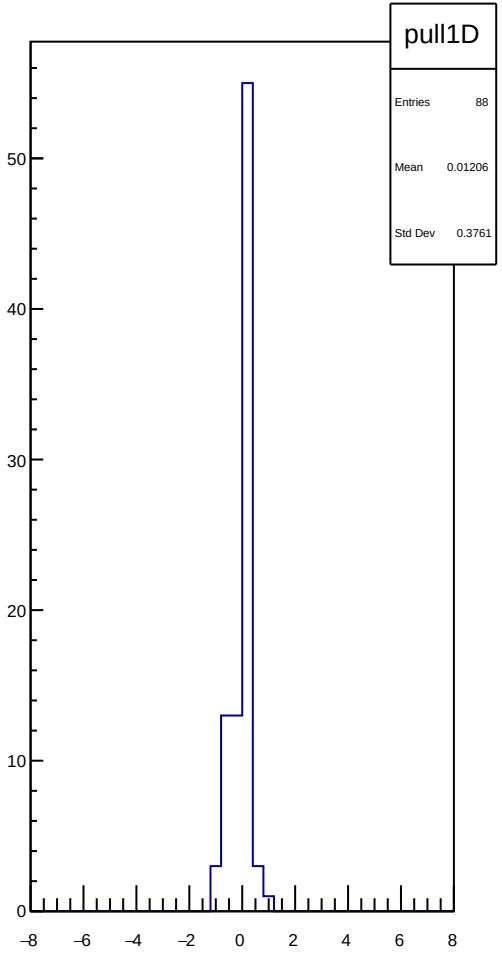

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 107.9 / 87
p0 −36.51 ± 0.5045
pull
Entries 88
Mean −40.36
Std Dev 0
pull1D
Entries 88
Mean 0.04473
Std Dev 1.107

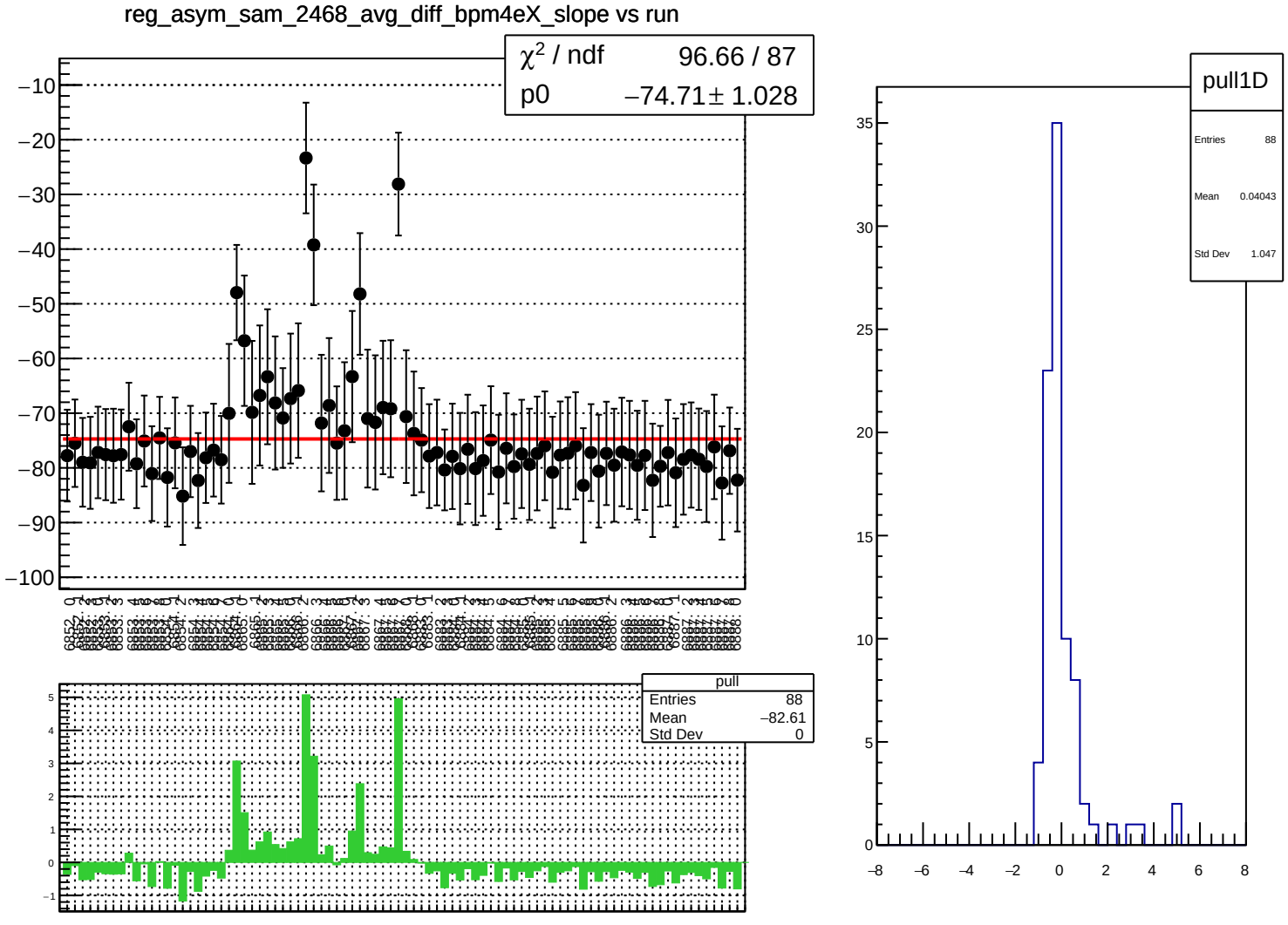

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.33 / 87
p0 31.85 ± 0.3712
pull
Entries 88
Mean −532.3
Std Dev 0
pull1D
Entries 88
Mean −0.003061
Std Dev 0.587

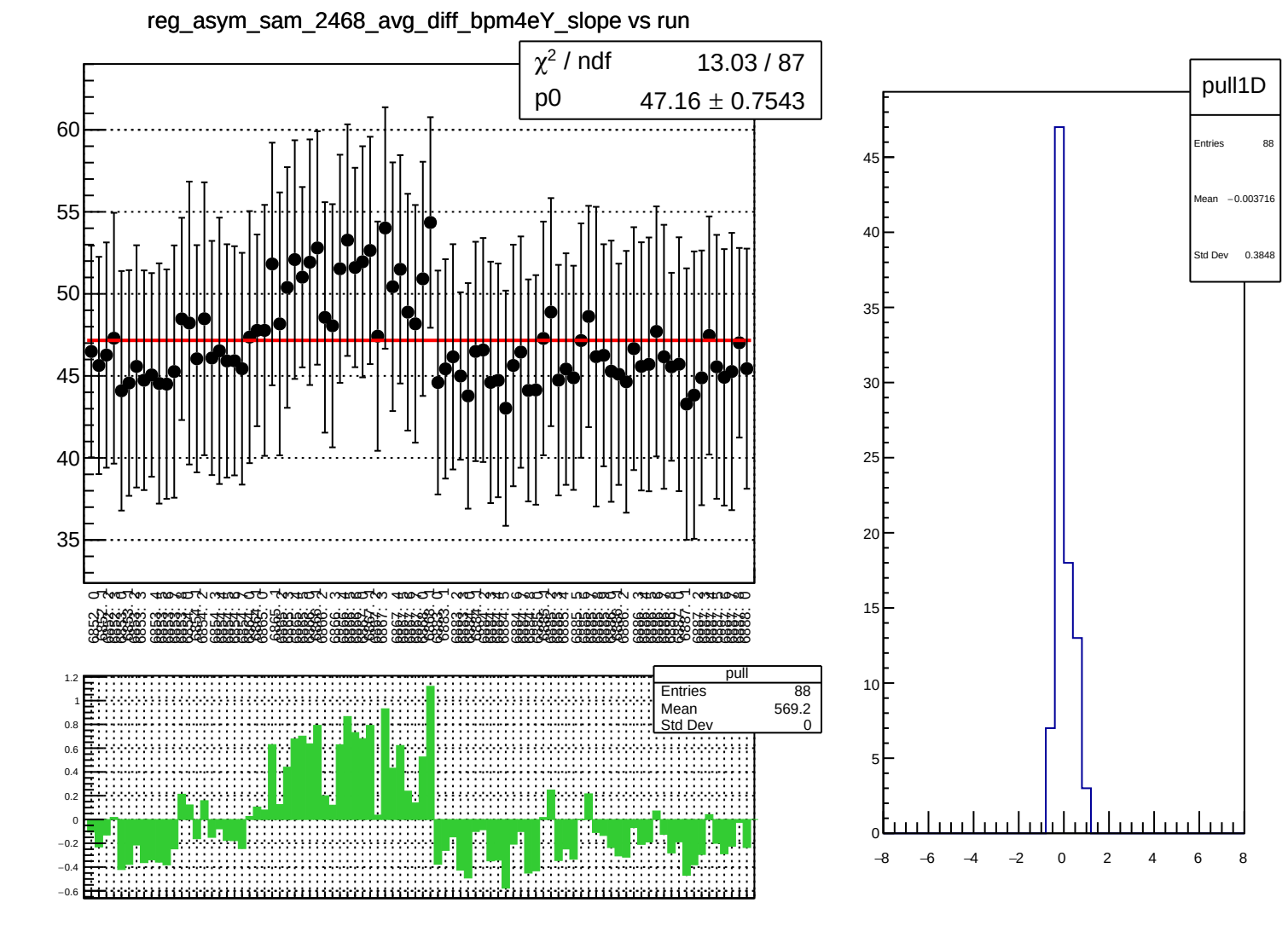

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 62.27 / 87
p0 0.2094 ± 0.01964
0.6
0.4
0.2
0
−0.2
pull
Entries 88
Mean 871.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.02263
Std Dev 0.8409
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

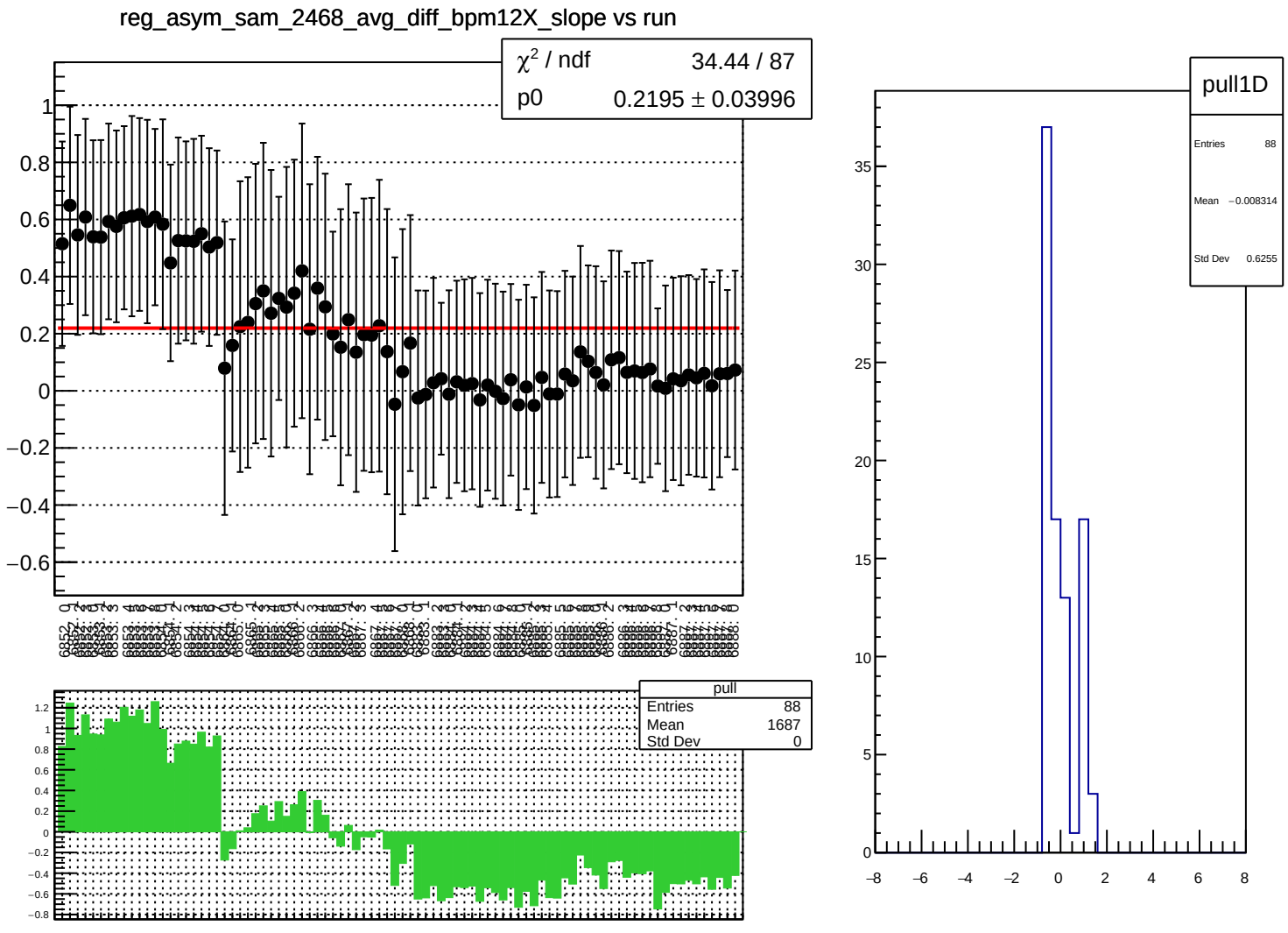

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 124.8 / 87
p0 −16.64 ± 1.078
0
−20
−40
−60
−80
pull
Entries 88
Mean −54.67
Std Dev 0
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 88
Mean −0.05229
Std Dev 1.19
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

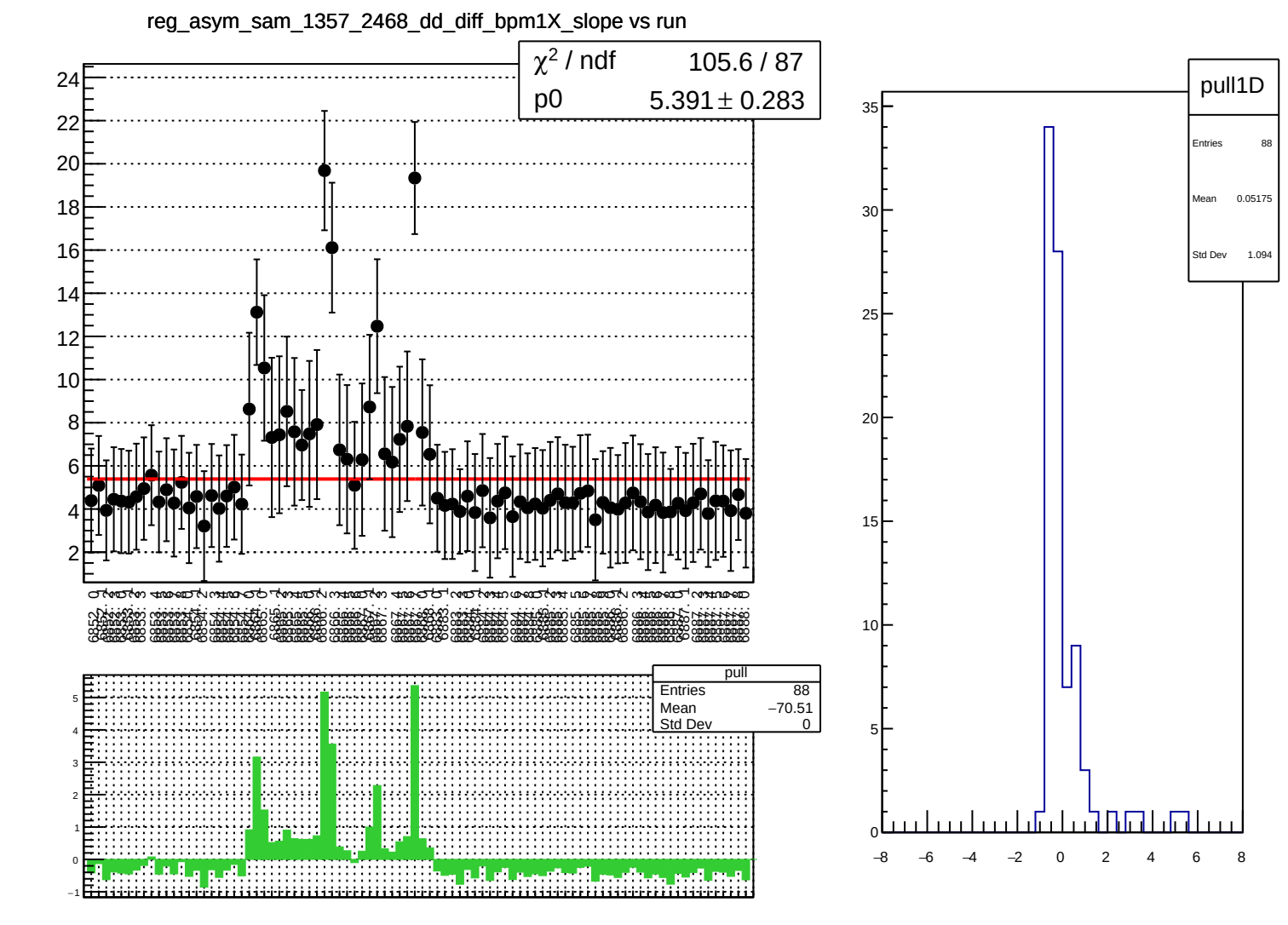

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.46 / 87
p0 −6.186 ± 0.5861
pull
Entries 88
Mean 175.7
Std Dev 0

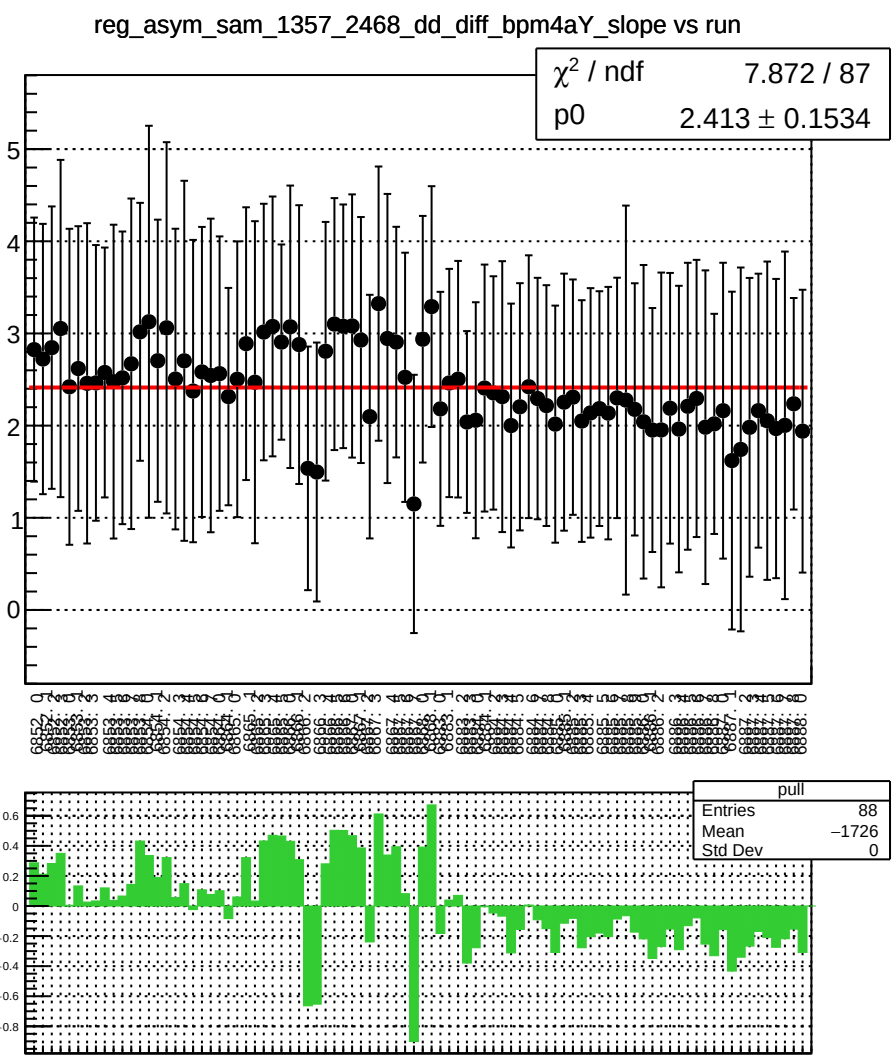

pull1D
Entries 88
Mean 0.01206
Std Dev 0.3761

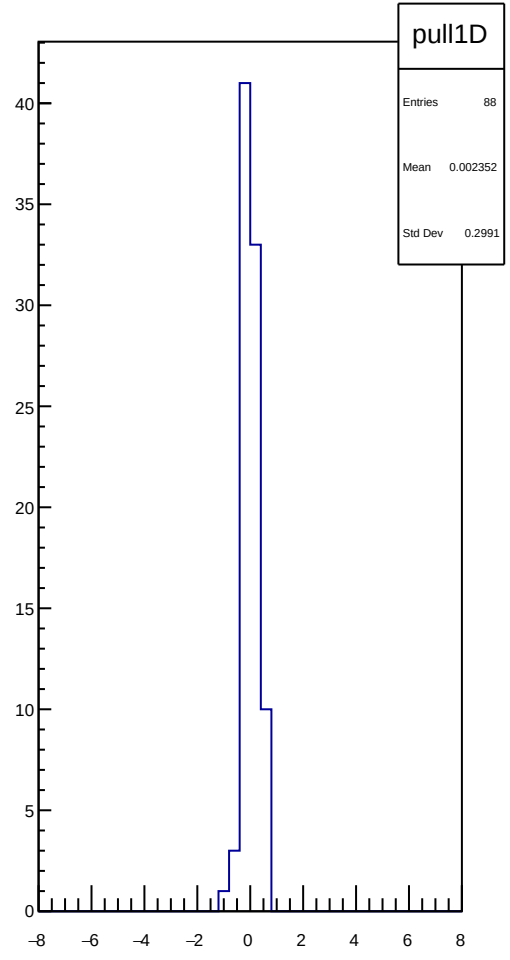

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 96.66 / 87
p0 −74.71± 1.028
pull
Entries 88
Mean −82.61
Std Dev 0
pull1D
Entries 88
Mean 0.04043
Std Dev 1.047

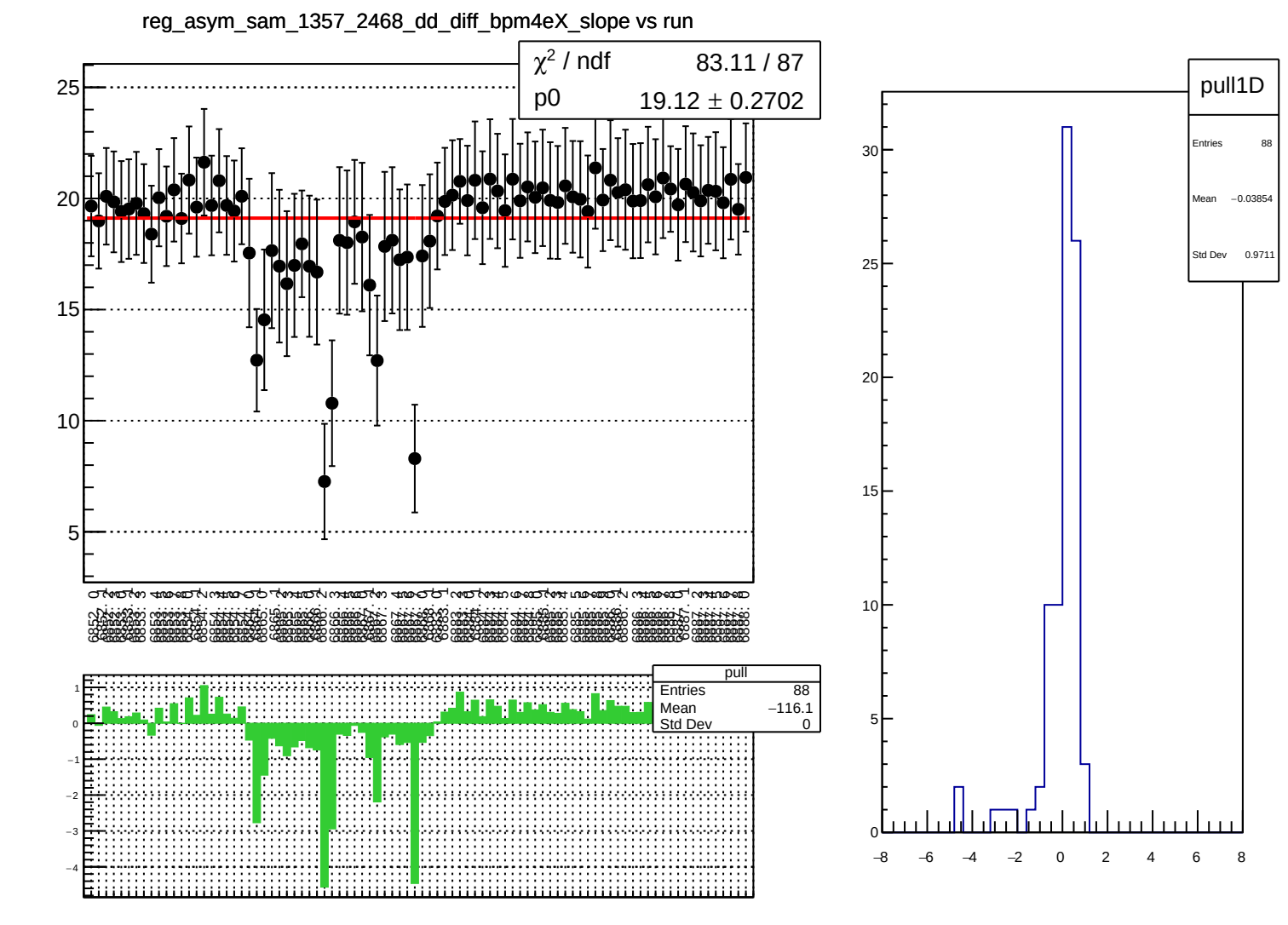

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.03 / 87
p0 47.16 ± 0.7543
pull
Entries 88
Mean 569.2
Std Dev 0
pull1D
Entries 88
Mean −0.003716
Std Dev 0.3848

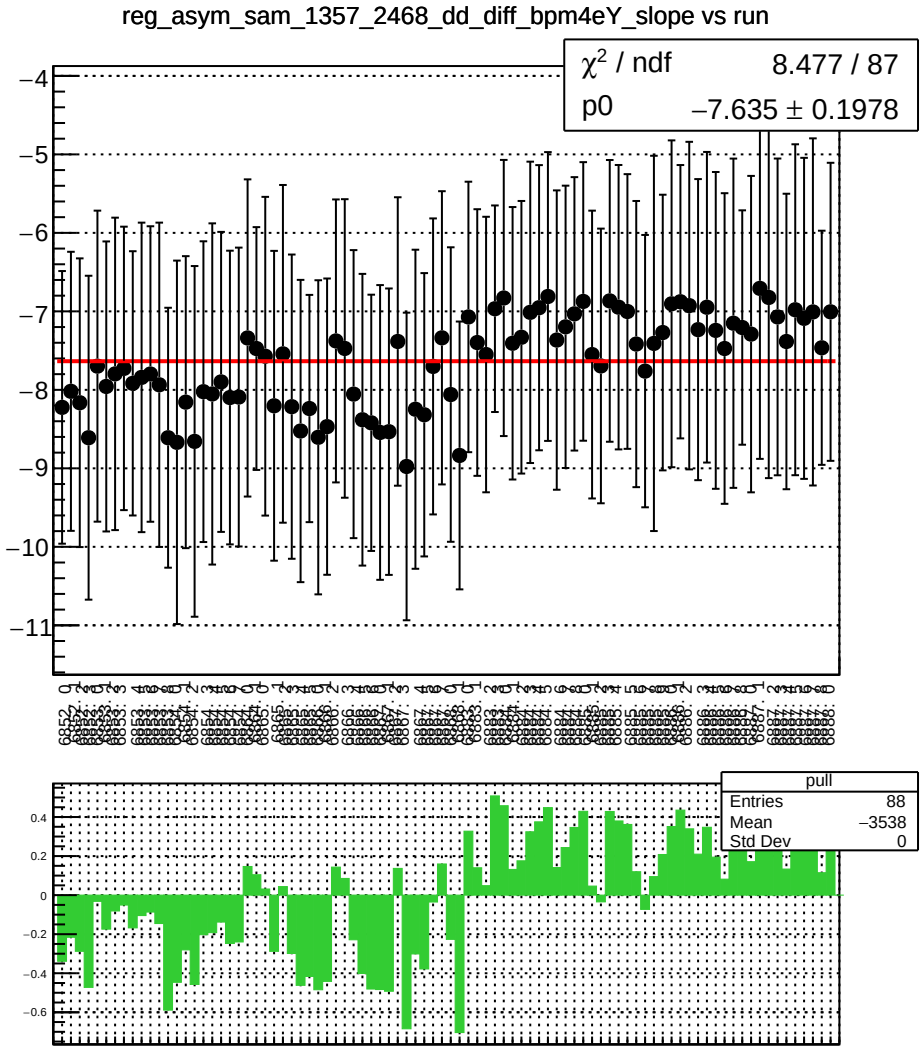

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 34.44 / 87
p0 0.2195 ± 0.03996
pull
Entries 88
Mean 1687
Std Dev 0
pull1D
Entries 88
Mean −0.008314
Std Dev 0.6255

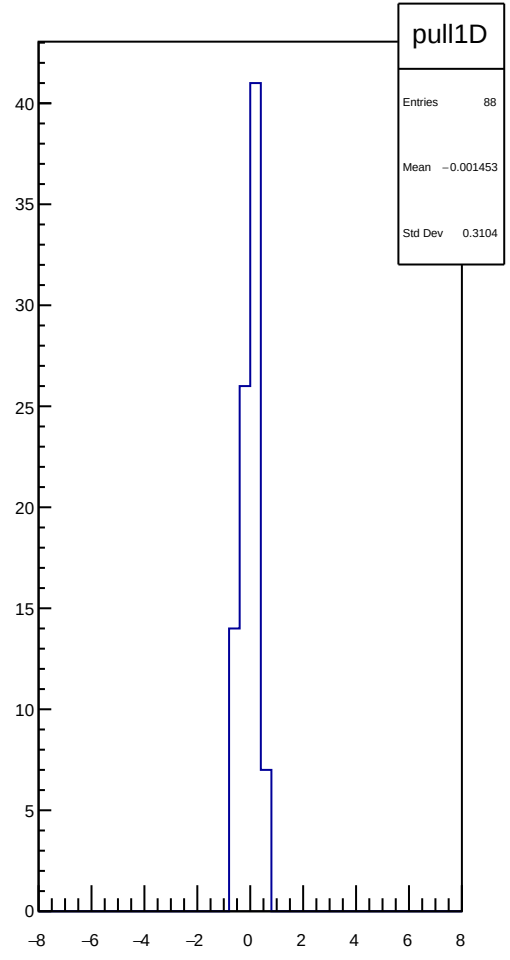

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 105.6 / 87
p0 5.391 ± 0.283
pull
Entries 88
Mean −70.51
Std Dev 0
pull1D
Entries 88
Mean 0.05175
Std Dev 1.094

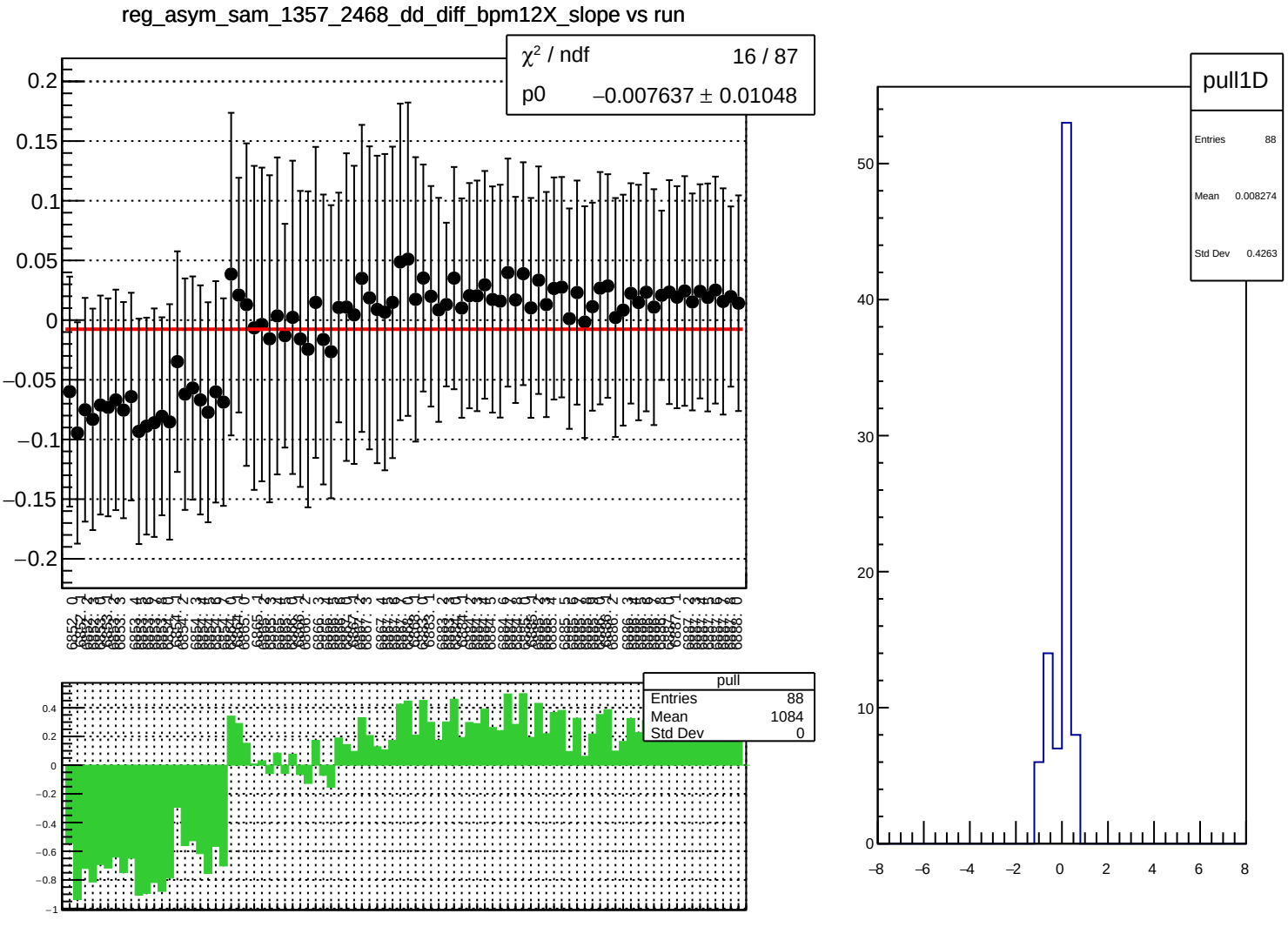

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.872 / 87
p0 2.413 ± 0.1534
pull
Entries 88
Mean −1726
Std Dev 0

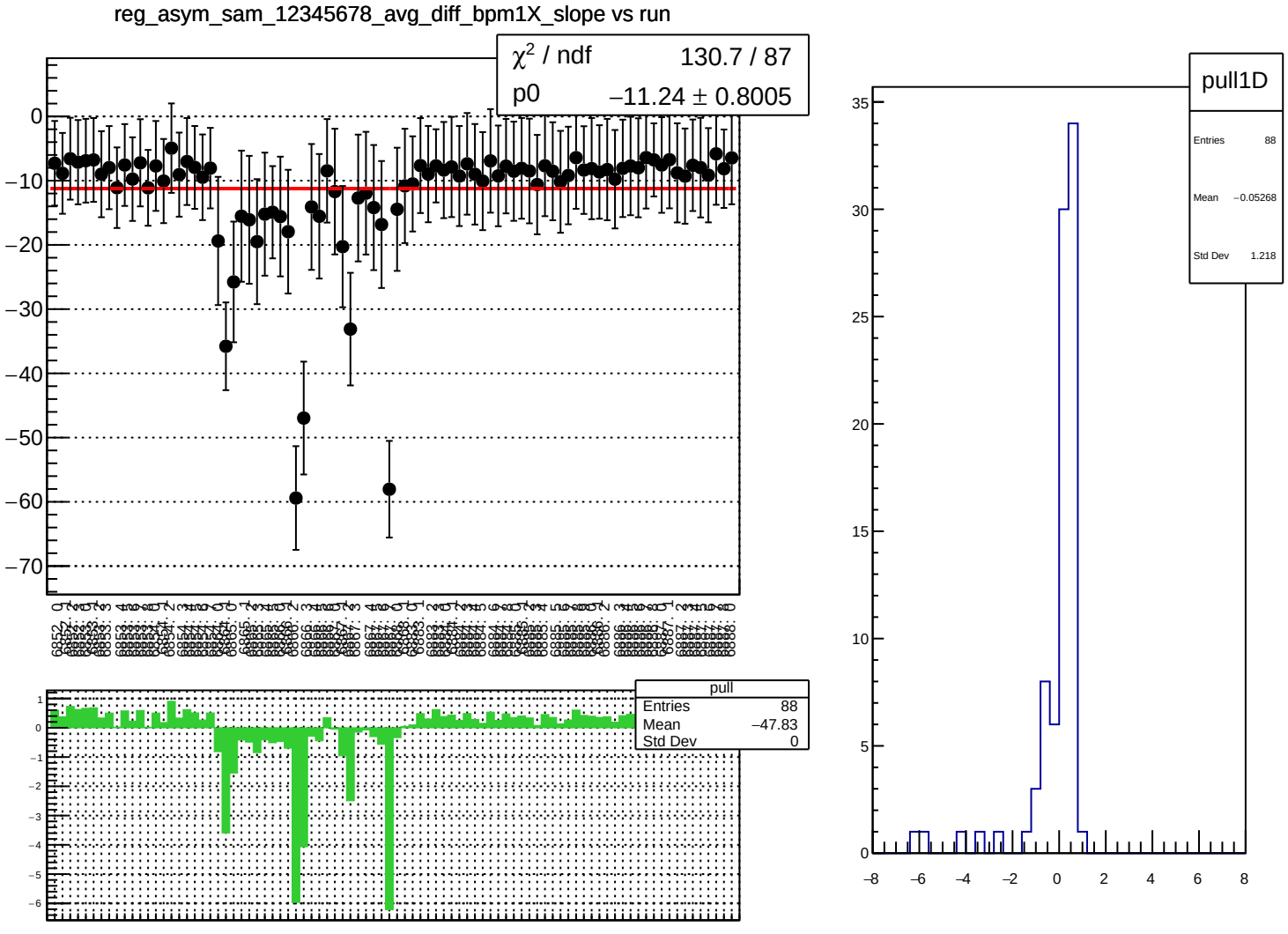

pull1D
Entries 88
Mean 0.002352
Std Dev 0.2991

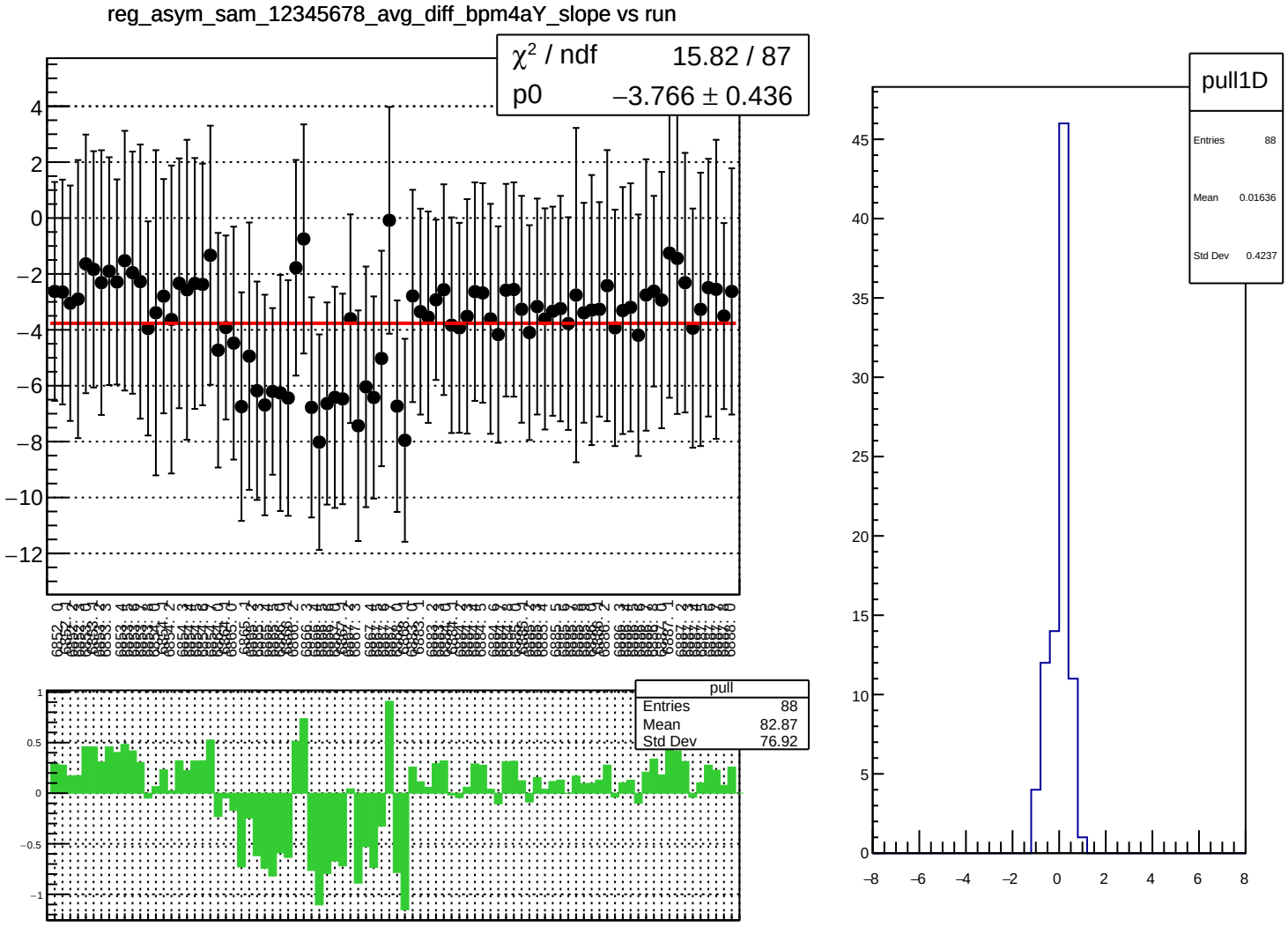

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.11 / 87
p0 19.12 ± 0.2702
pull
Entries 88
Mean −116.1
Std Dev 0
pull1D
Entries 88
Mean −0.03854
Std Dev 0.9711

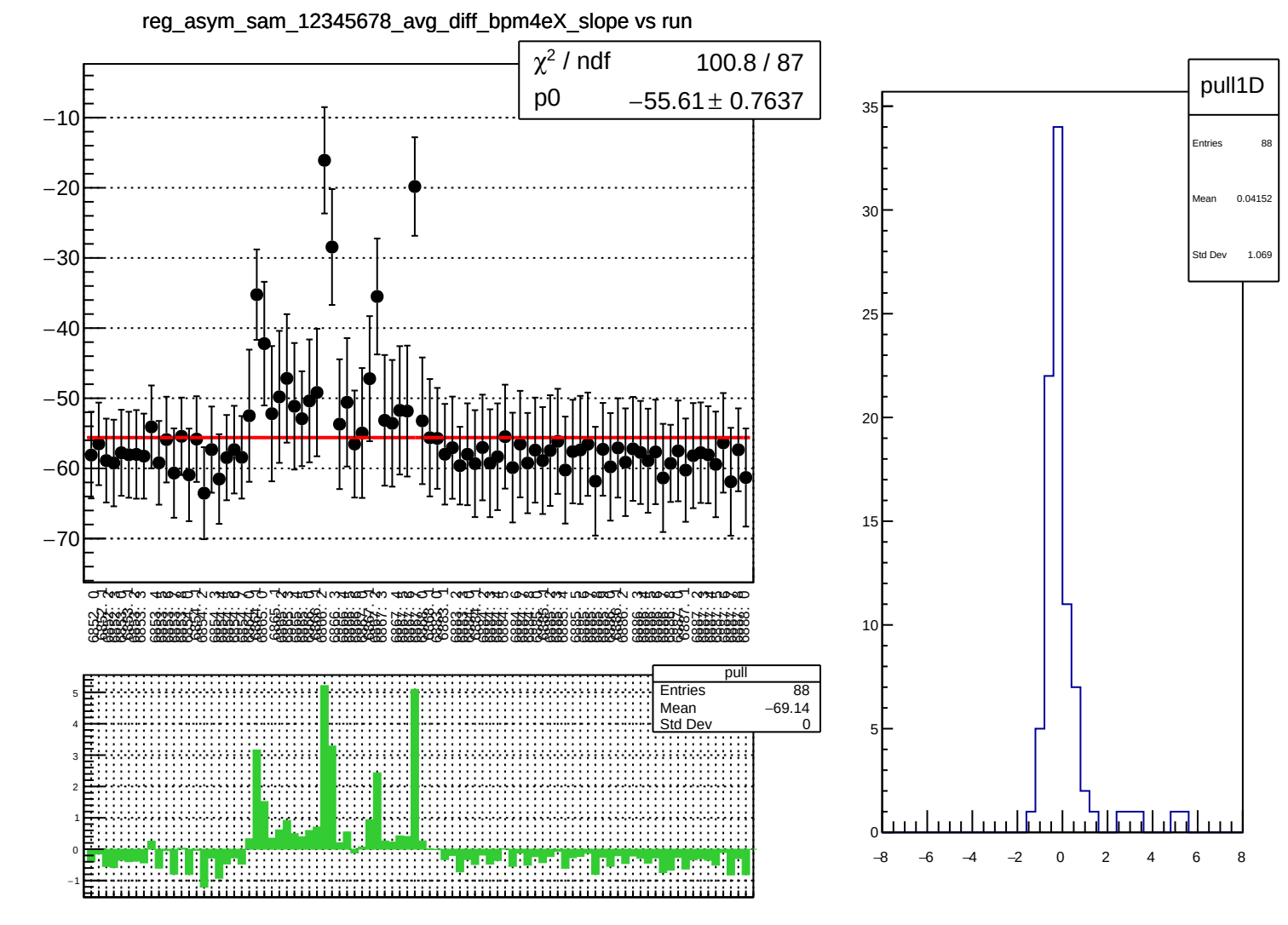

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.477 / 87
p0 −7.635 ± 0.1978
pull
Entries 88
Mean −3538
Std Dev 0

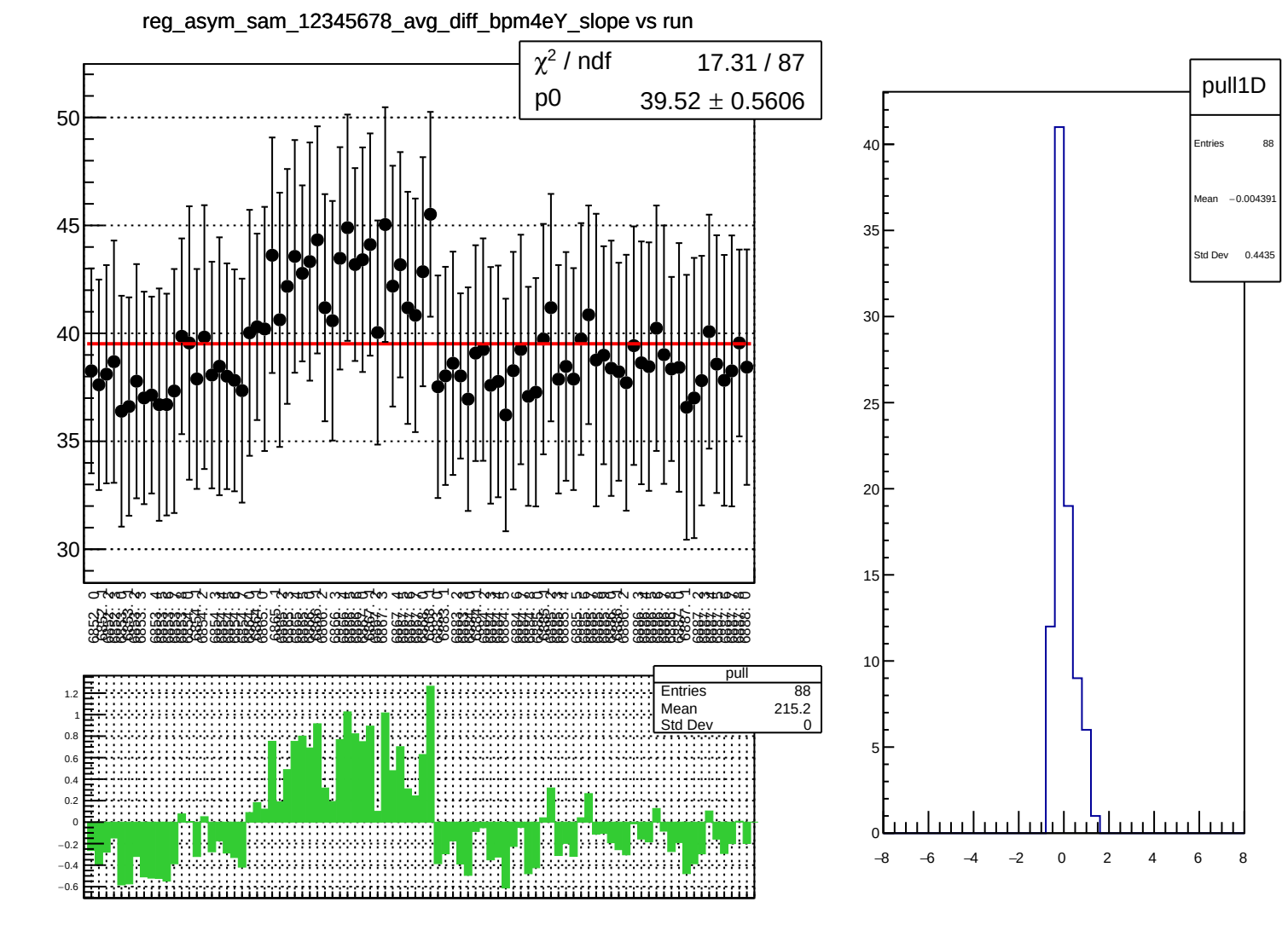

pull1D
Entries 88
Mean −0.001453
Std Dev 0.3104

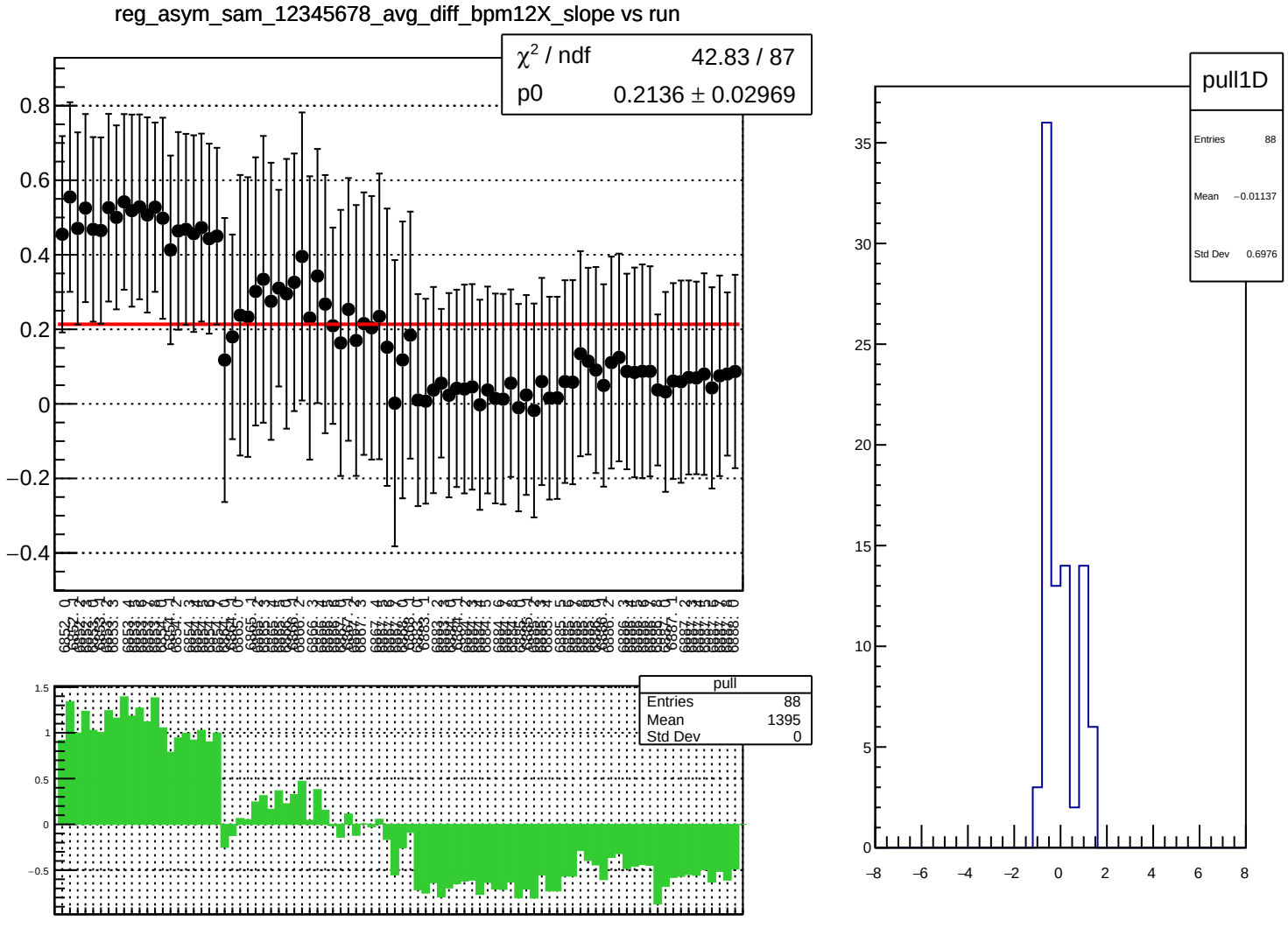

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 16 / 87
p0 −0.007637 ± 0.01048
pull
Entries 88
Mean 1084
Std Dev 0
pull1D
Entries 88
Mean 0.008274
Std Dev 0.4263

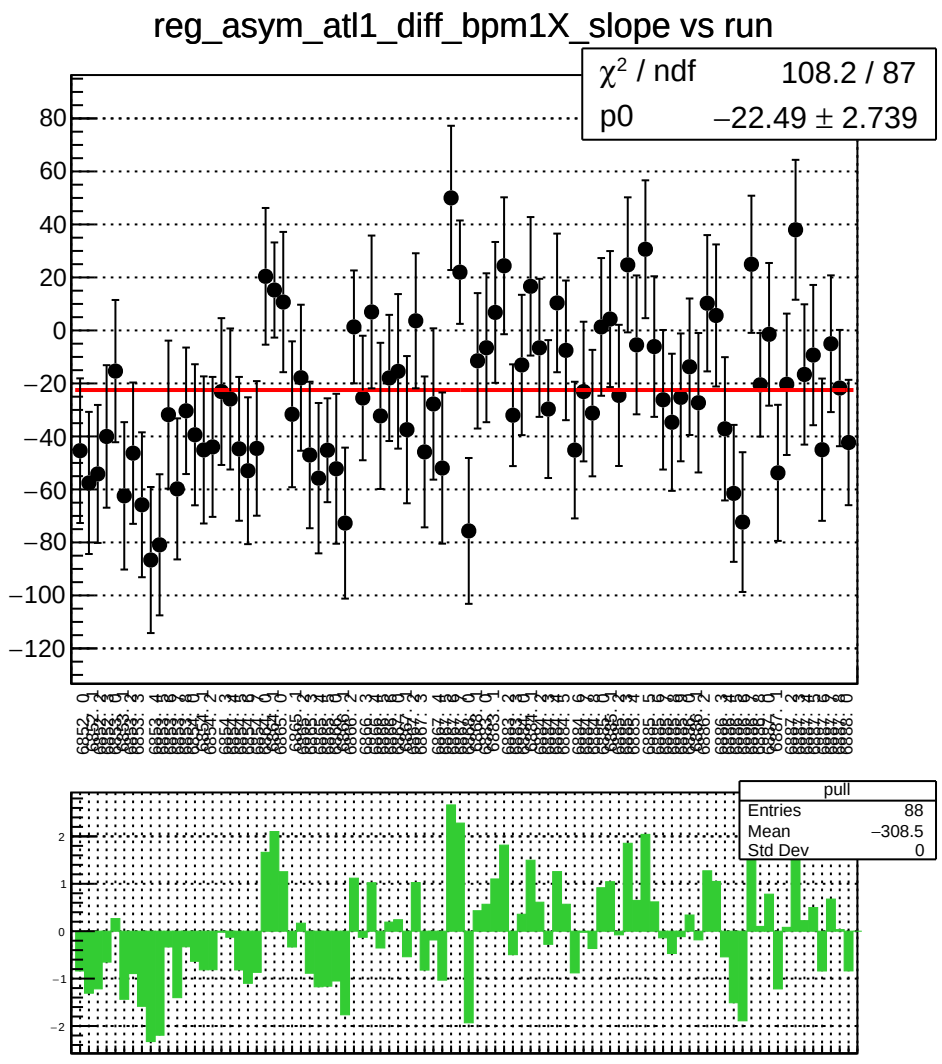

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 130.7 / 87
p0 −11.24 ± 0.8005
pull
Entries 88
Mean −47.83
Std Dev 0
pull1D
Entries 88
Mean −0.05268
Std Dev 1.218

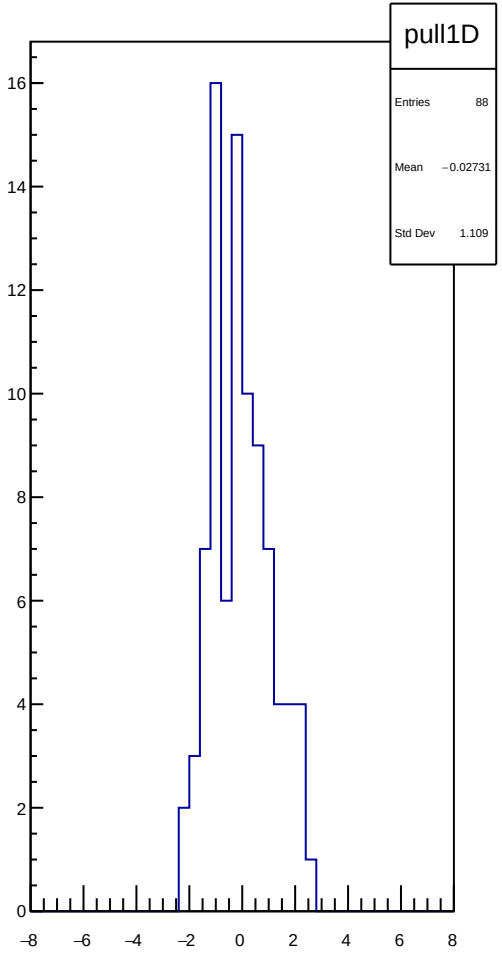

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.82 / 87
p0 −3.766 ± 0.436
pull
Entries 88
Mean 82.87
Std Dev 76.92
pull1D
Entries 88
Mean 0.01636
Std Dev 0.4237

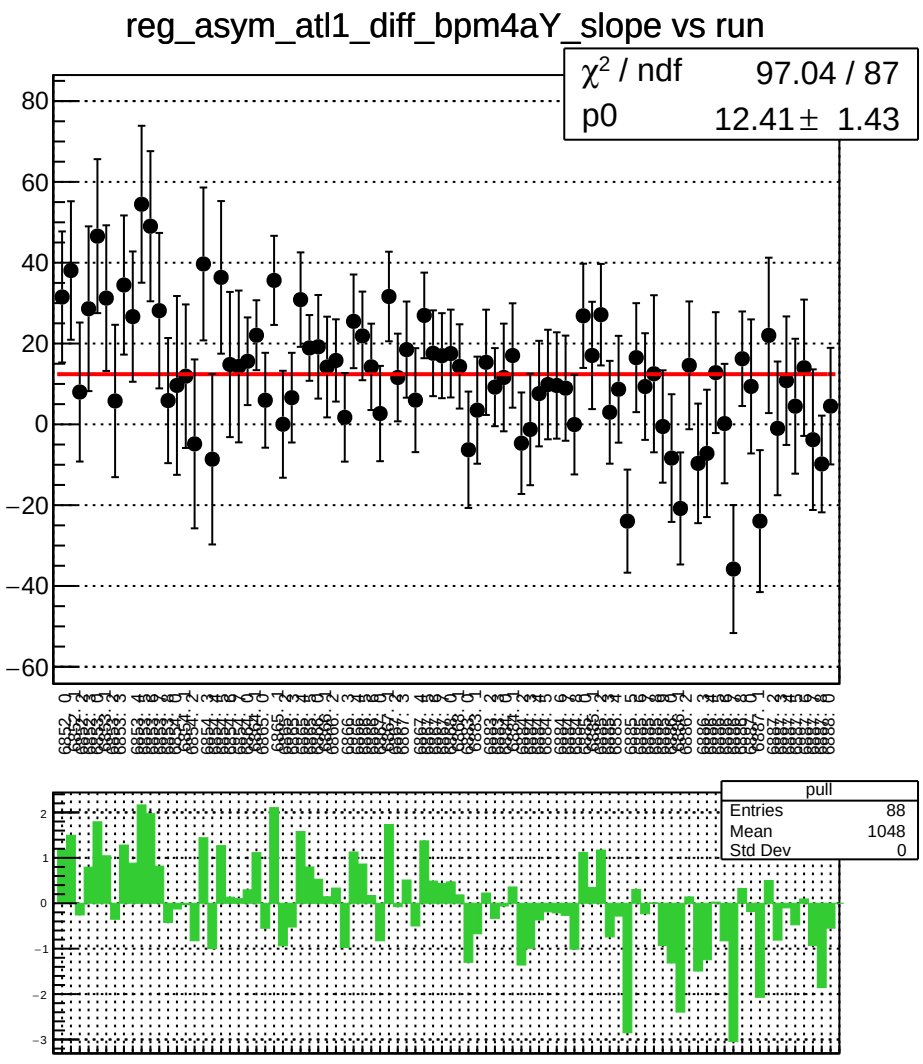

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 100.8 / 87
p0 −55.61 ± 0.7637
pull
Entries 88
Mean −69.14
Std Dev 0
pull1D
Entries 88
Mean 0.04152
Std Dev 1.069

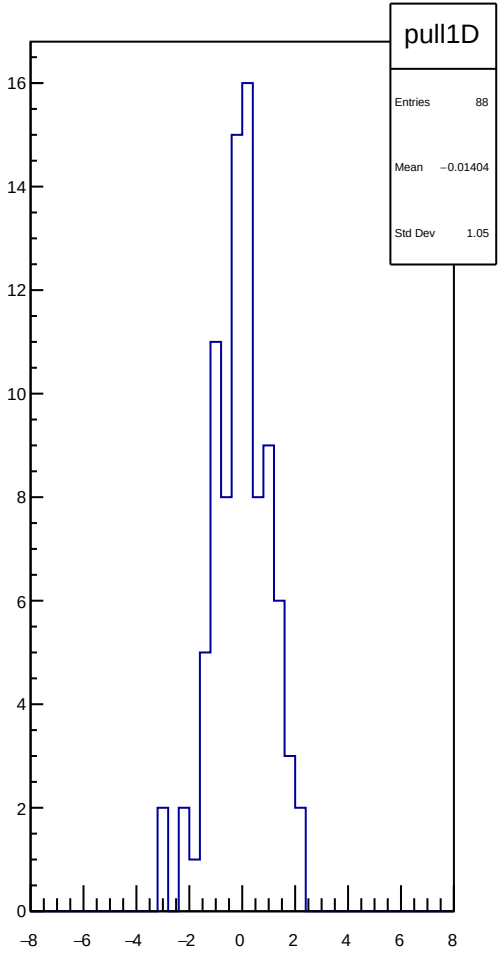

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.31 / 87
p0 39.52 ± 0.5606
pull
Entries 88
Mean 215.2
Std Dev 0
pull1D
Entries 88
Mean −0.004391
Std Dev 0.4435

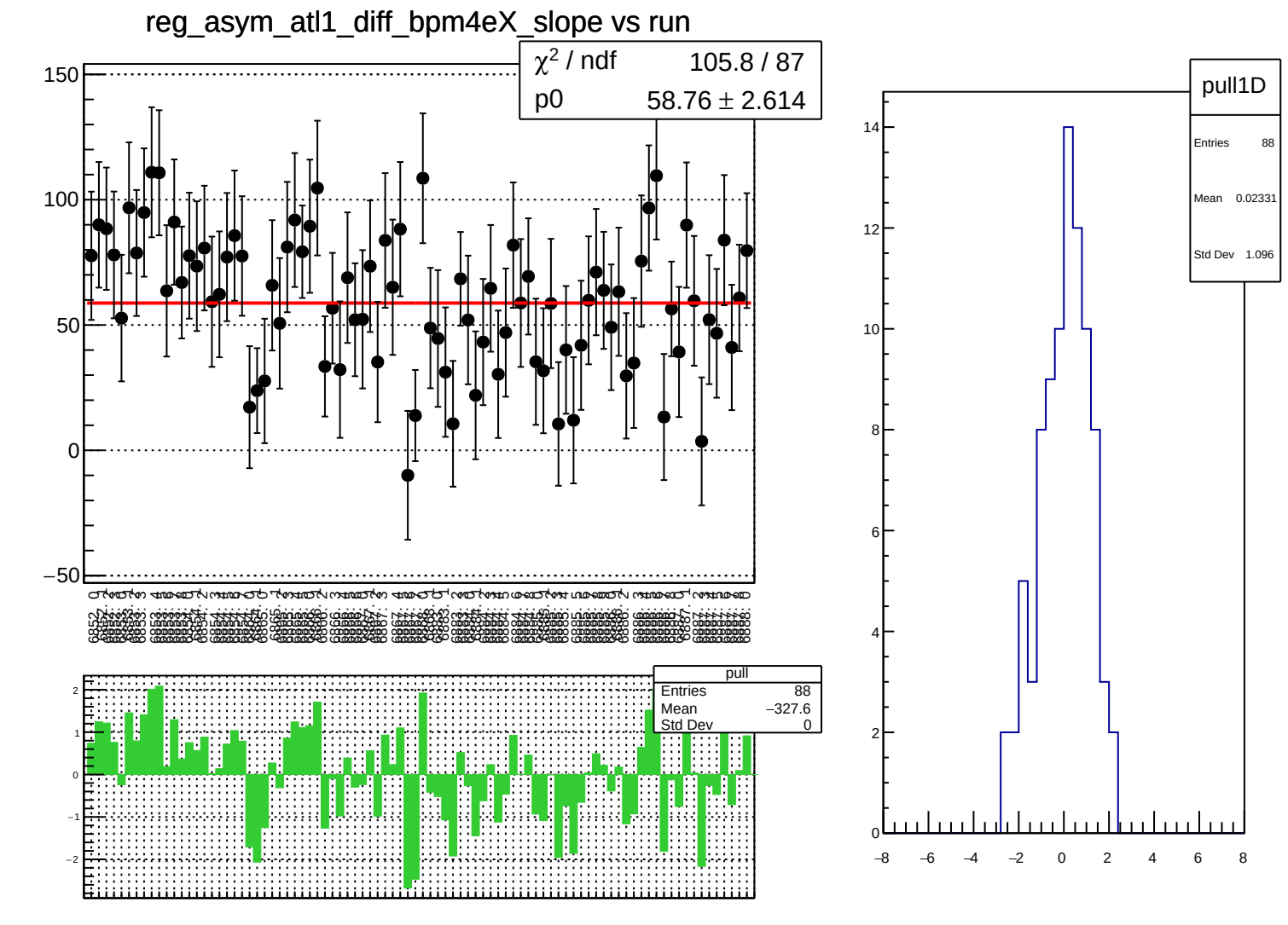

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 42.83 / 87
p0 0.2136 ± 0.02969
pull
Entries 88
Mean 1395
Std Dev 0
pull1D
Entries 88
Mean −0.01137
Std Dev 0.6976

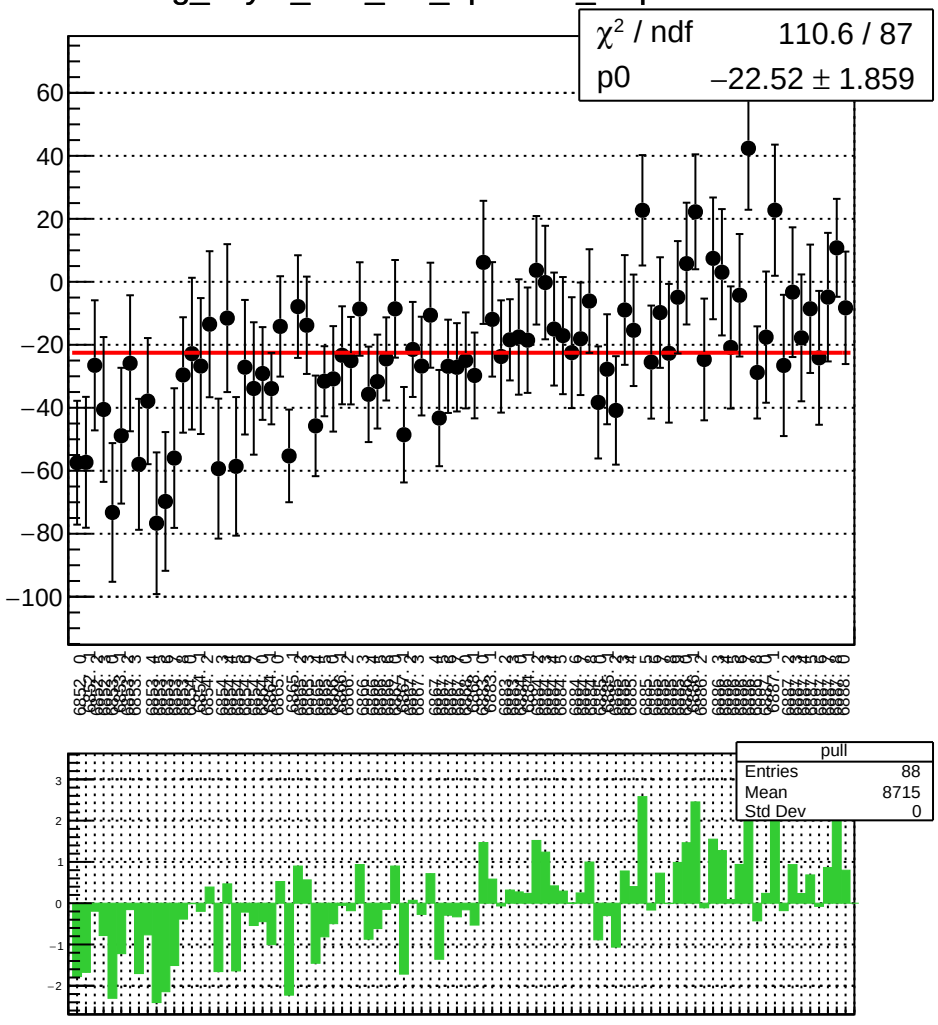

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 108.2 / 87
p0 −22.49 ± 2.739
pull
Entries 88
Mean −308.5
Std Dev 0

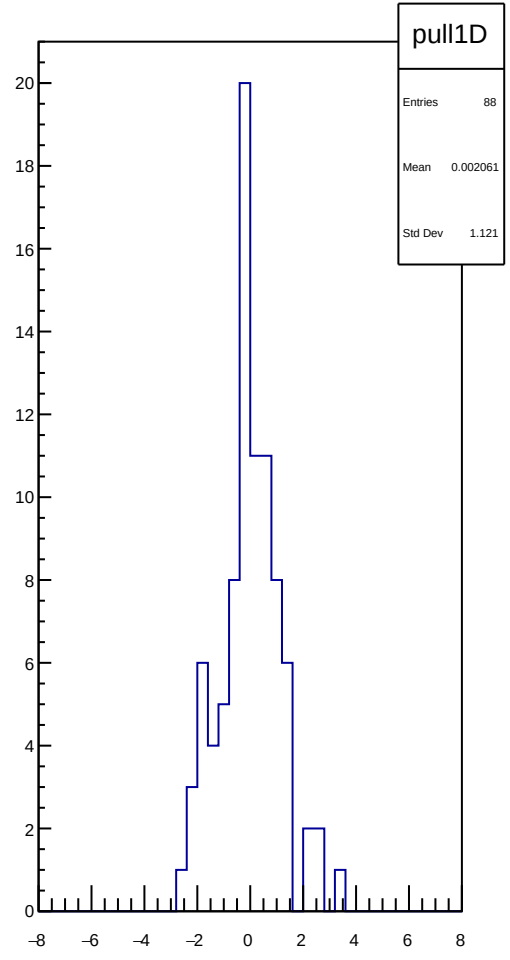

pull1D
Entries 88
Mean −0.02731
Std Dev 1.109

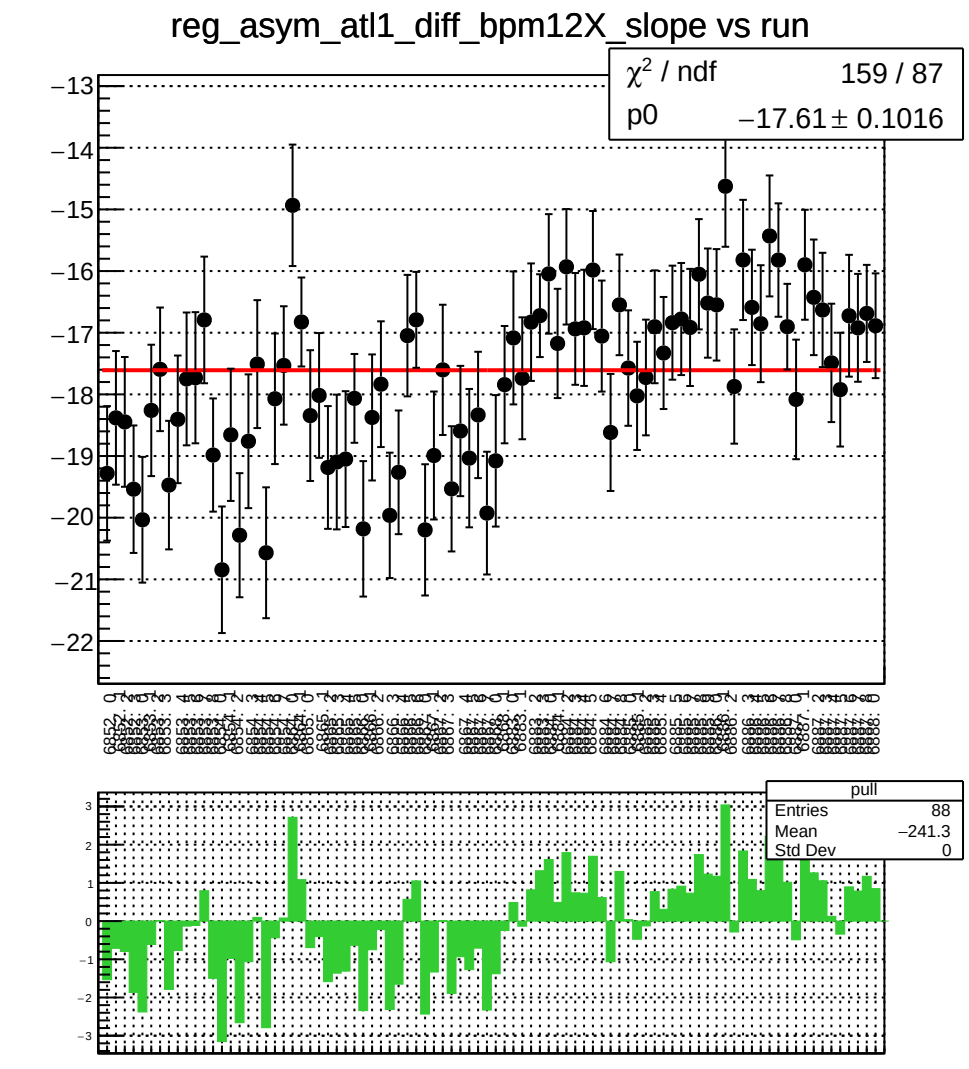

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 97.04 / 87
p0 12.41 ± 1.43
pull
Entries 88
Mean 1048
Std Dev 0

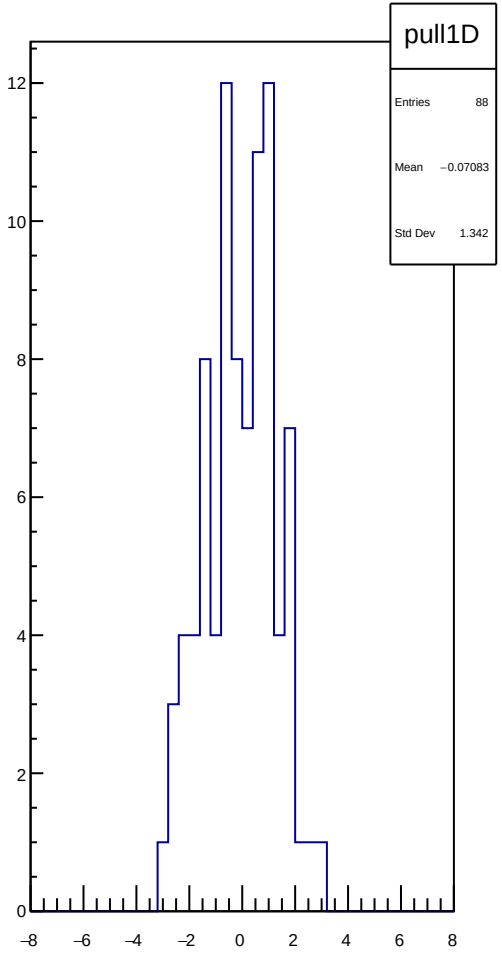

pull1D
Entries 88
Mean −0.01404
Std Dev 1.05

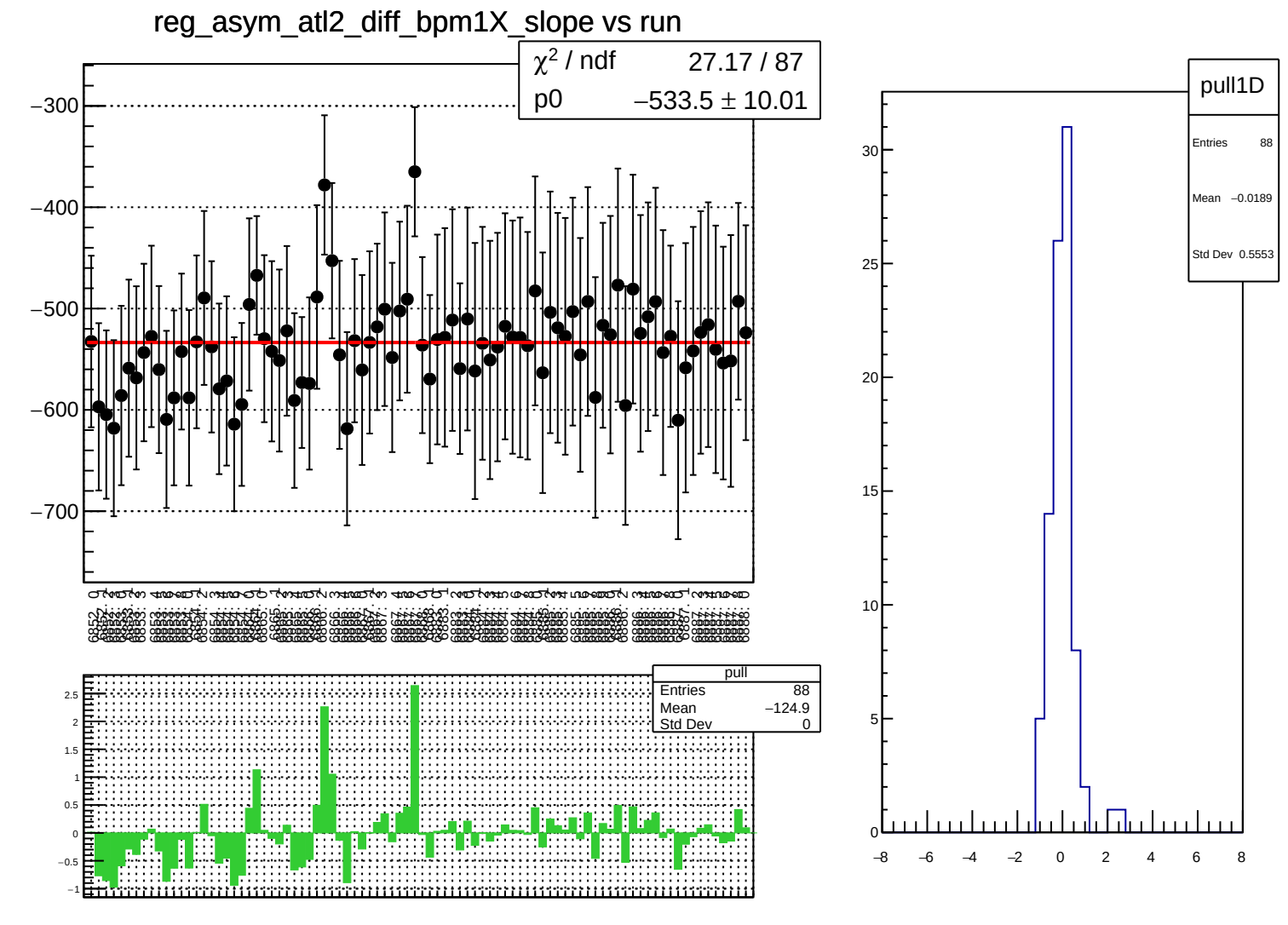

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 105.8 / 87
p0 58.76 ± 2.614
150
100
50
0
−50
pull
Entries 88
Mean −327.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.02331
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

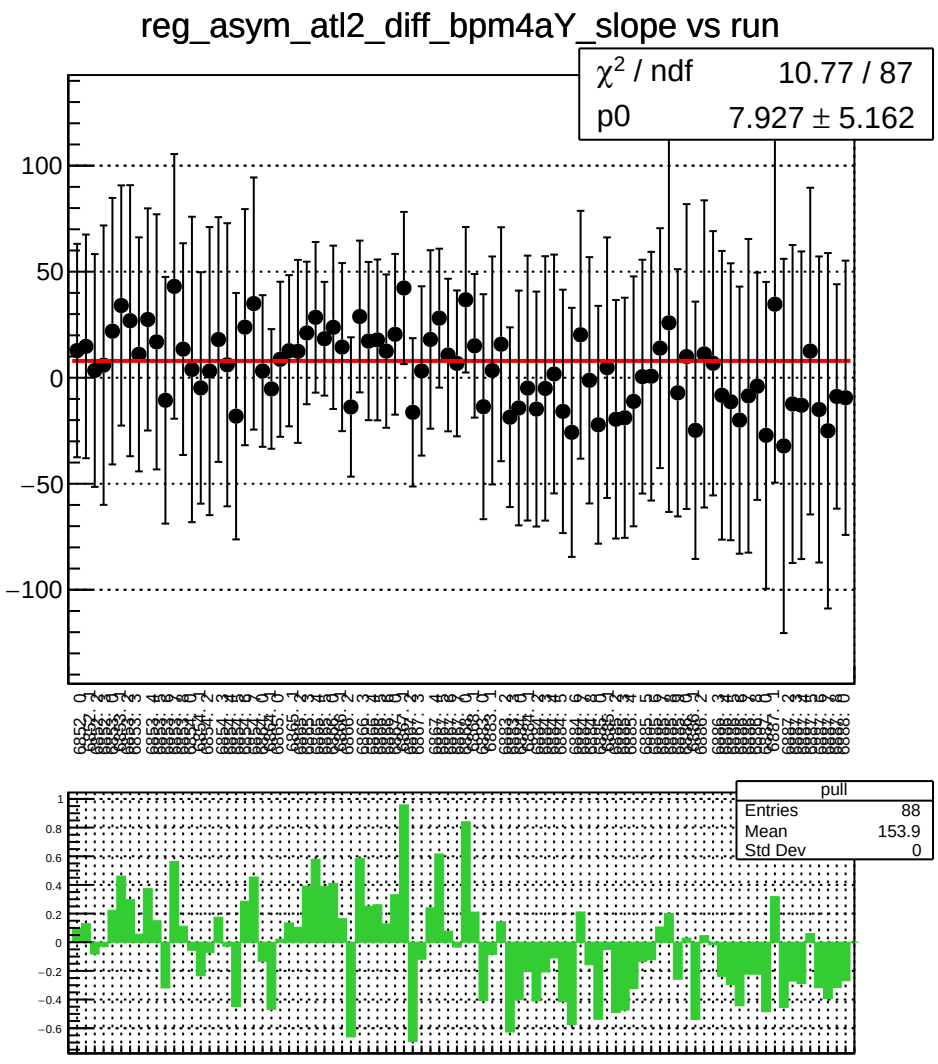

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 110.6 / 87
p0 −22.52 ± 1.859
pull
Entries 88
Mean 8715
Std Dev 0

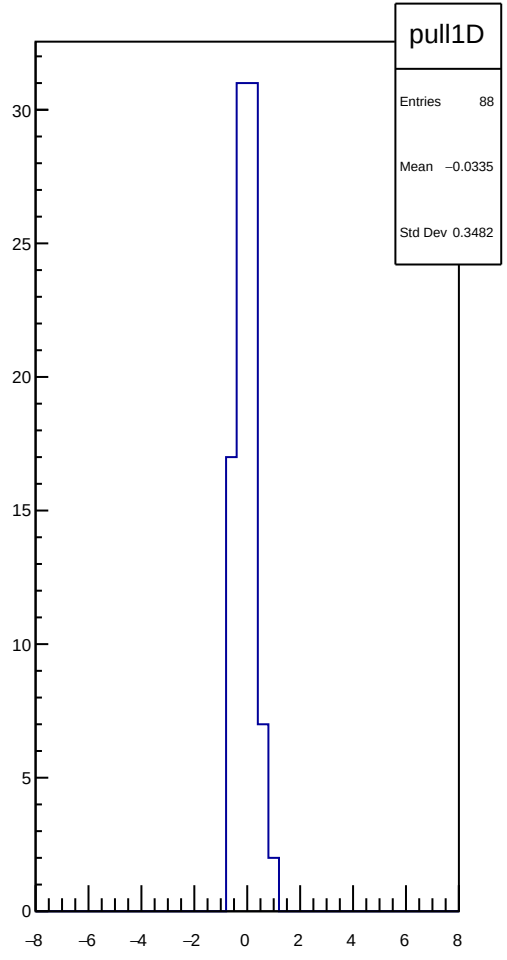

pull1D
Entries 88
Mean 0.002061
Std Dev 1.121

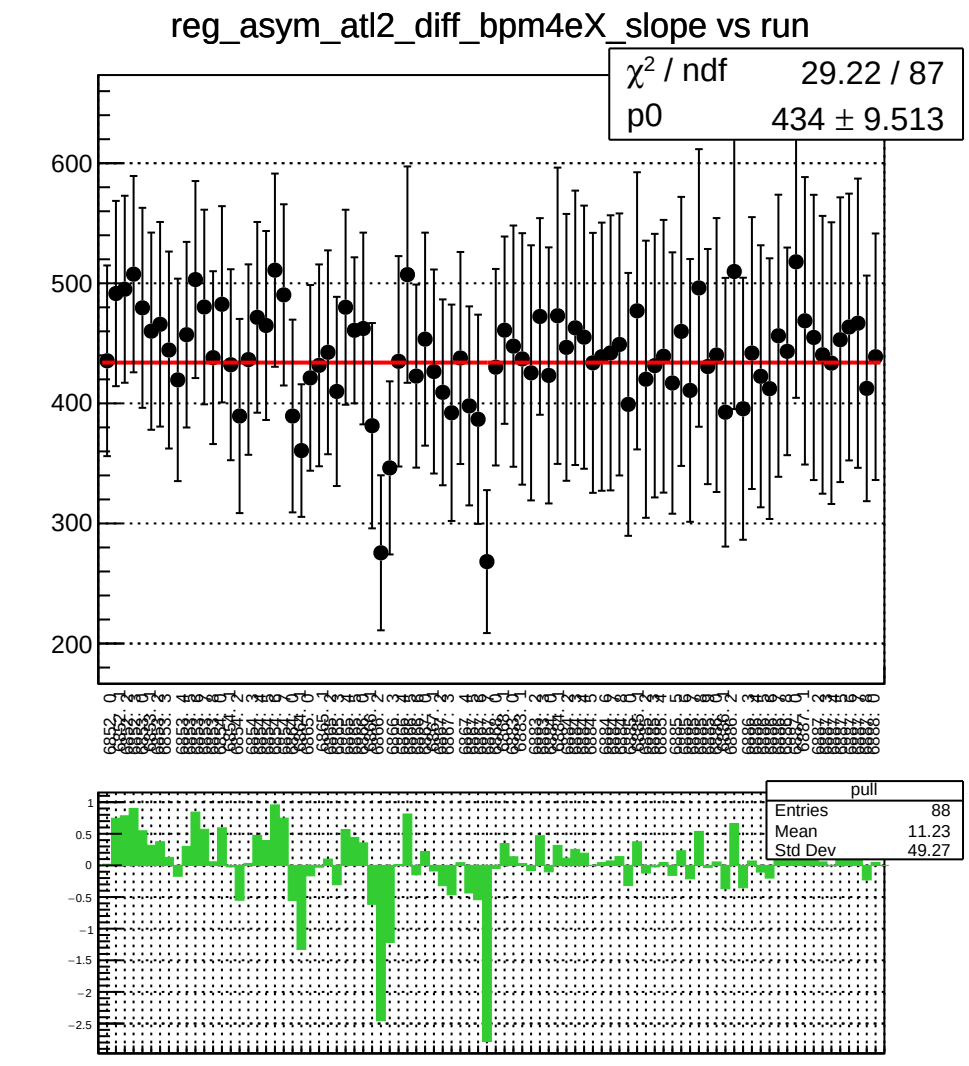

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 159 / 87
p0 −17.61 ± 0.1016
pull
Entries 88
Mean −241.3
Std Dev 0

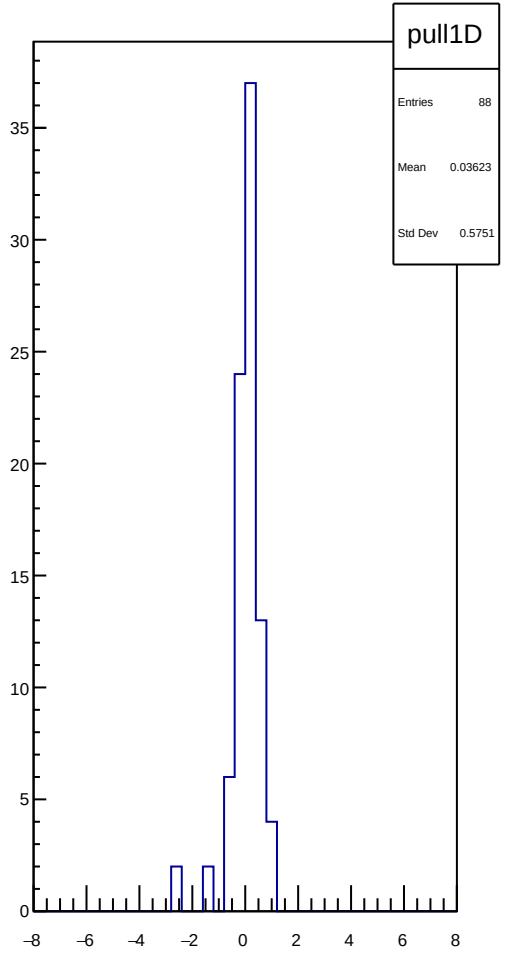

pull1D
Entries 88
Mean −0.07083
Std Dev 1.342

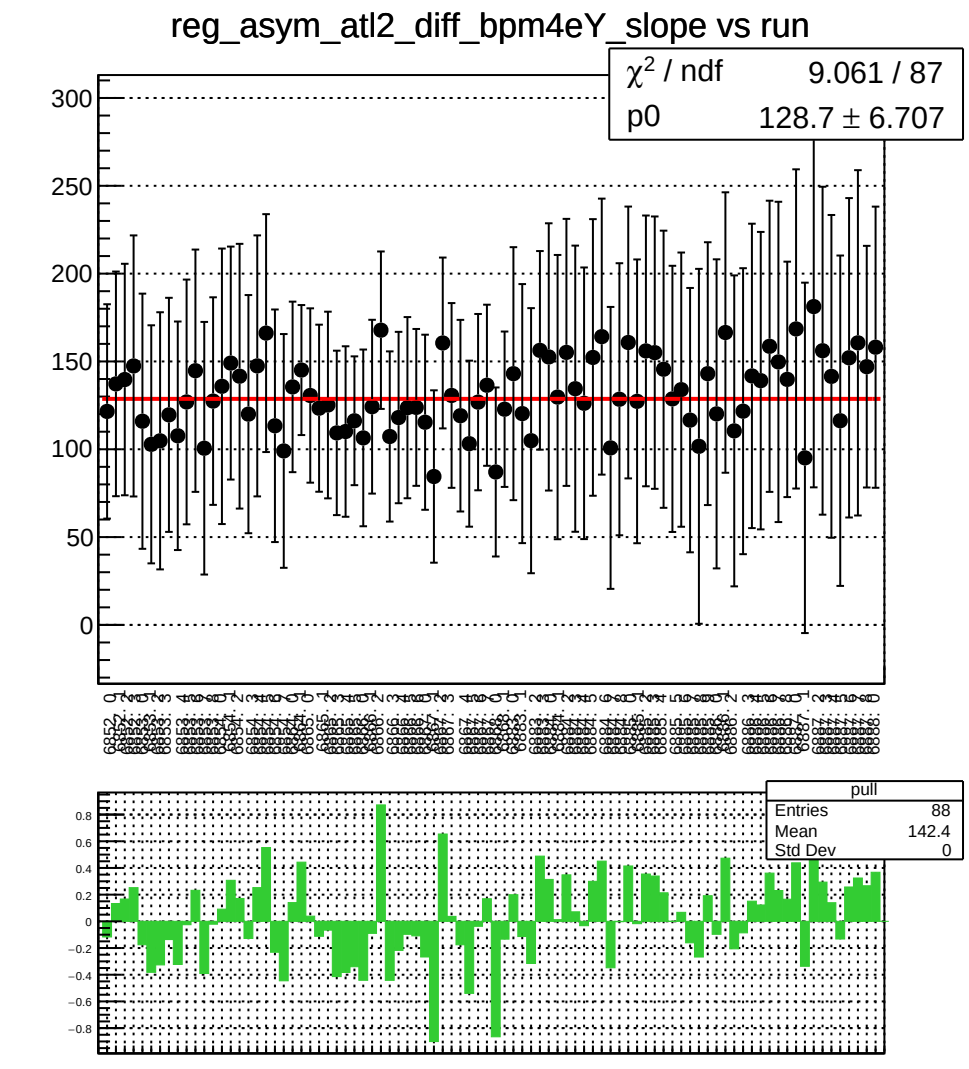

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 27.17 / 87
p0 −533.5 ± 10.01
−300
−400
−500
−600
−700
pull
Entries 88
Mean −124.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.0189
Std Dev 0.5553
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

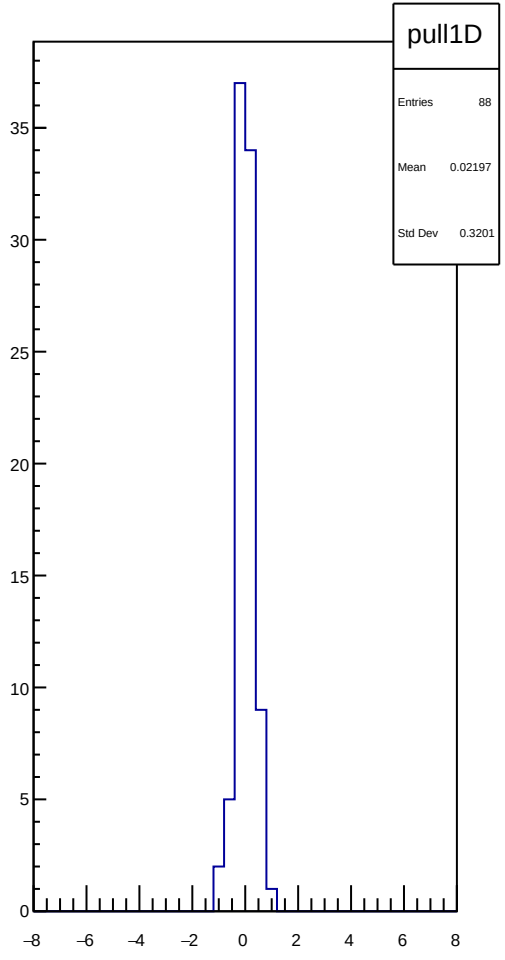

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 10.77 / 87
p0 7.927 ± 5.162
100
50
0
−50
−100
pull
Entries 88
Mean 153.9
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

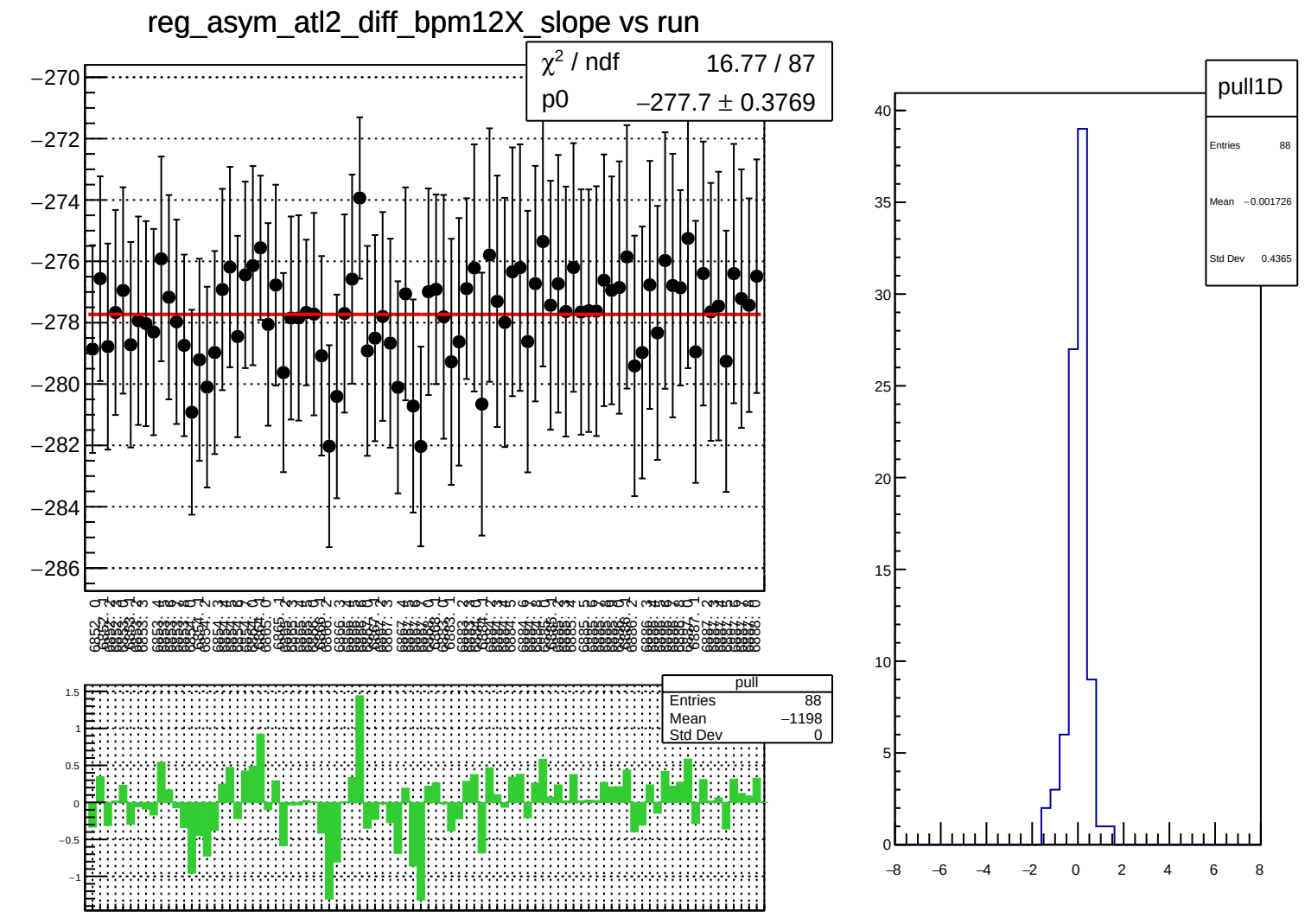

pull1D
Entries 88
Mean −0.0335
Std Dev 0.3482
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

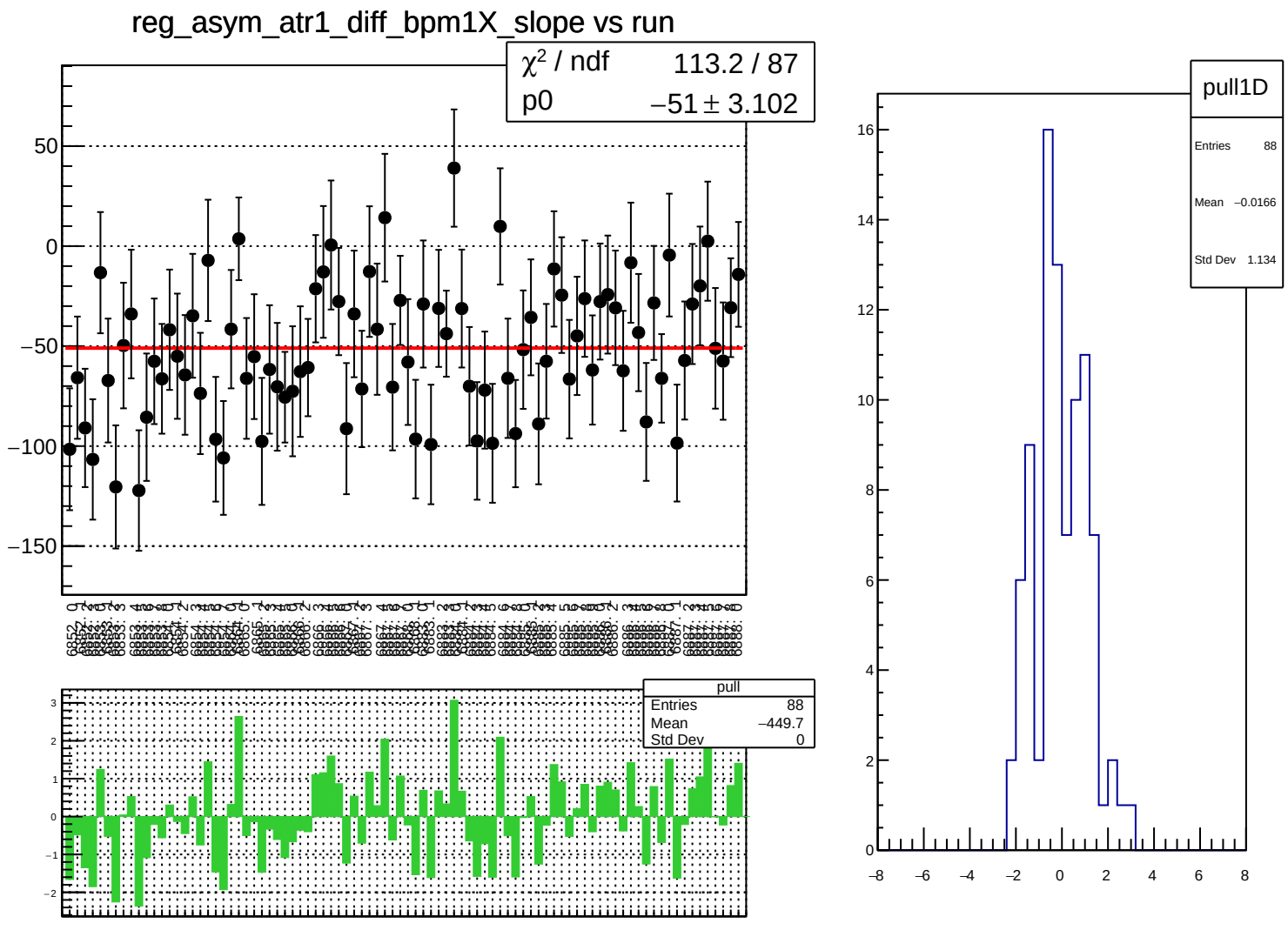

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 29.22 / 87
p0 434 ± 9.513
600
500
400
300
200
pull
Entries 88
Mean 11.23
Std Dev 49.27
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

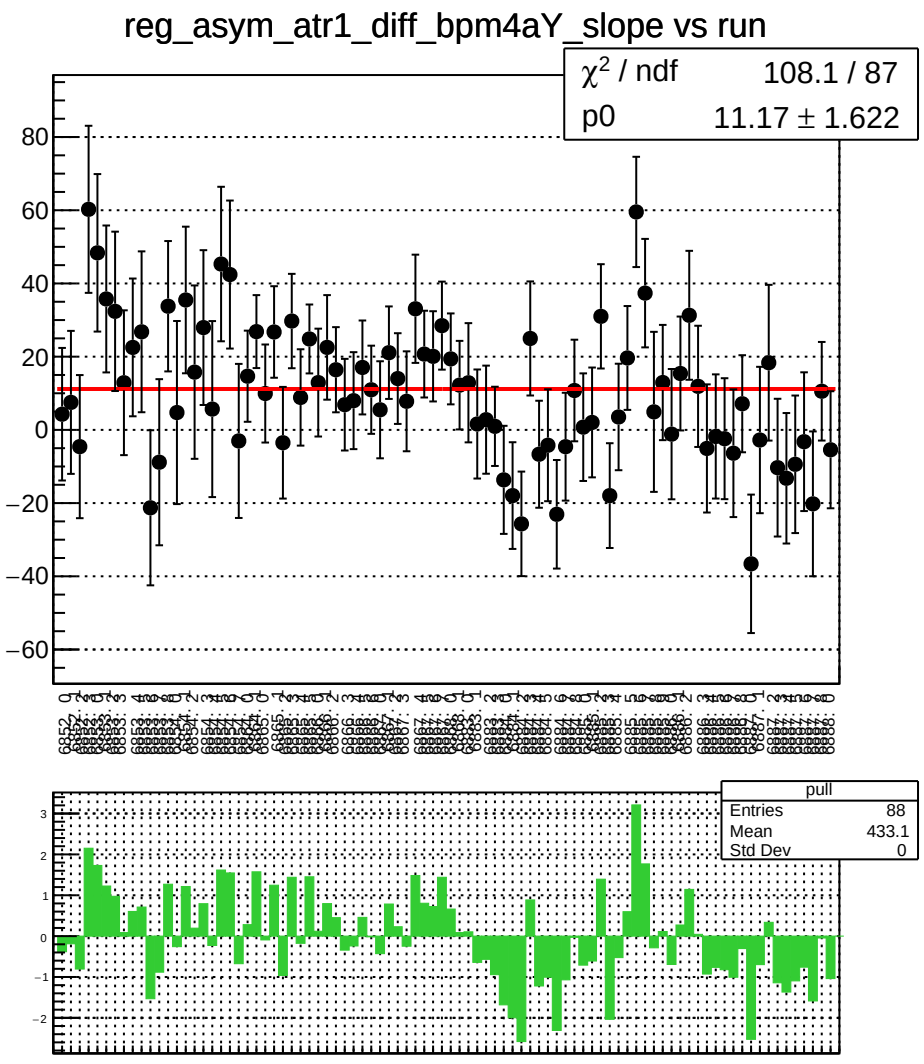

pull1D
Entries 88
Mean 0.03623
Std Dev 0.5751
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

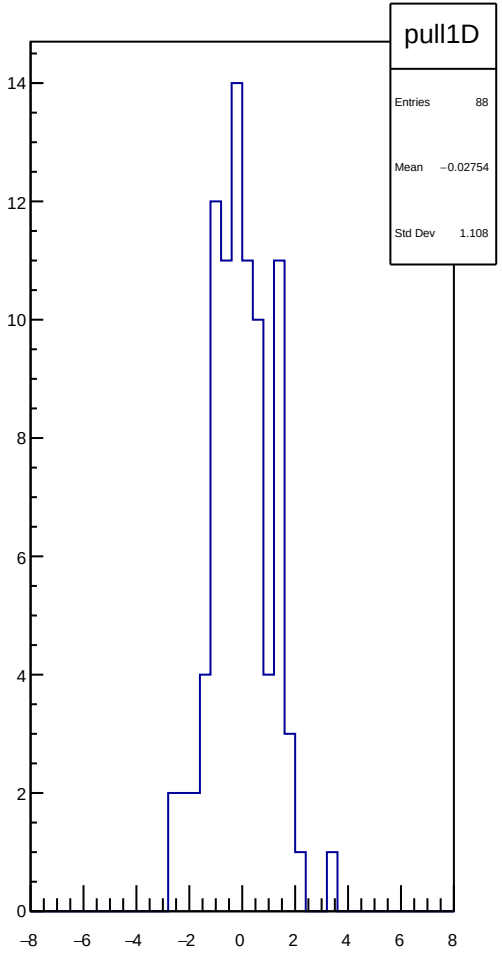

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 9.061 / 87
p0 128.7 ± 6.707
300
250
200
150
100
50
0
pull
Entries 88
Mean 142.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

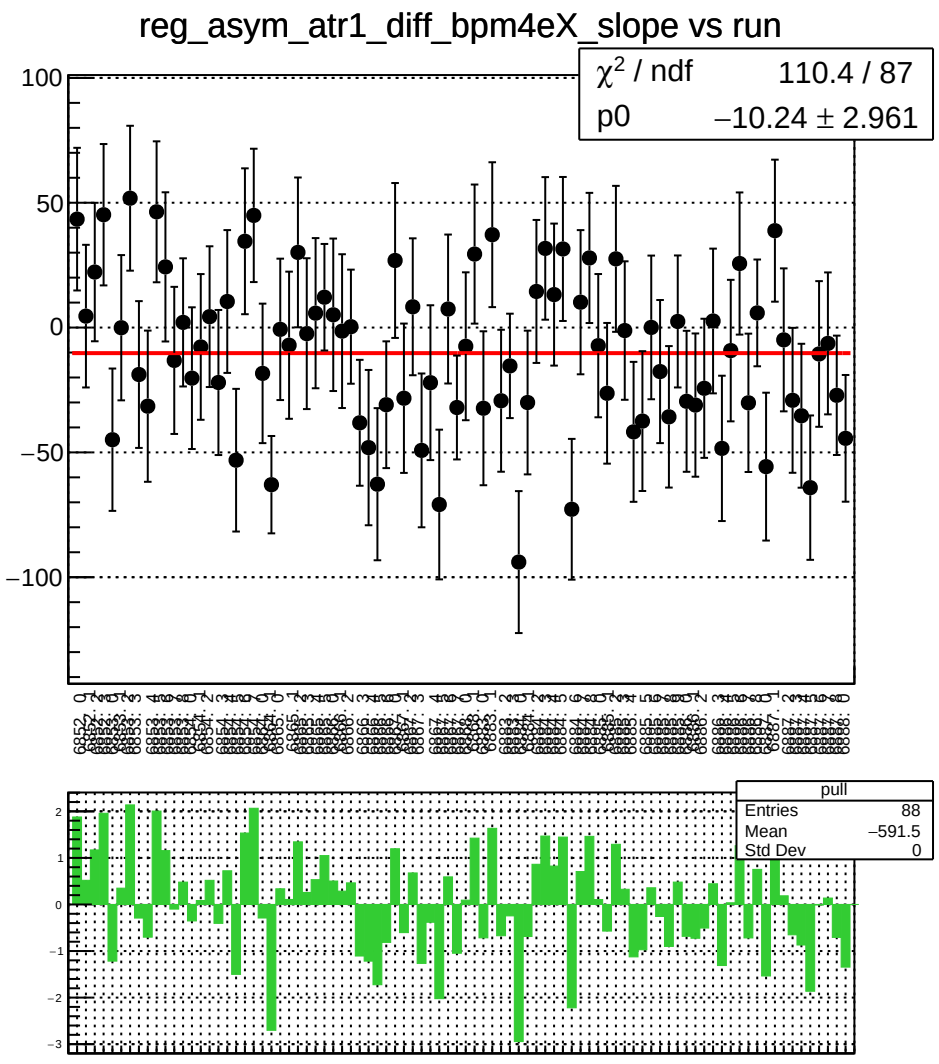

pull1D
Entries 88
Mean 0.02197
Std Dev 0.3201
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

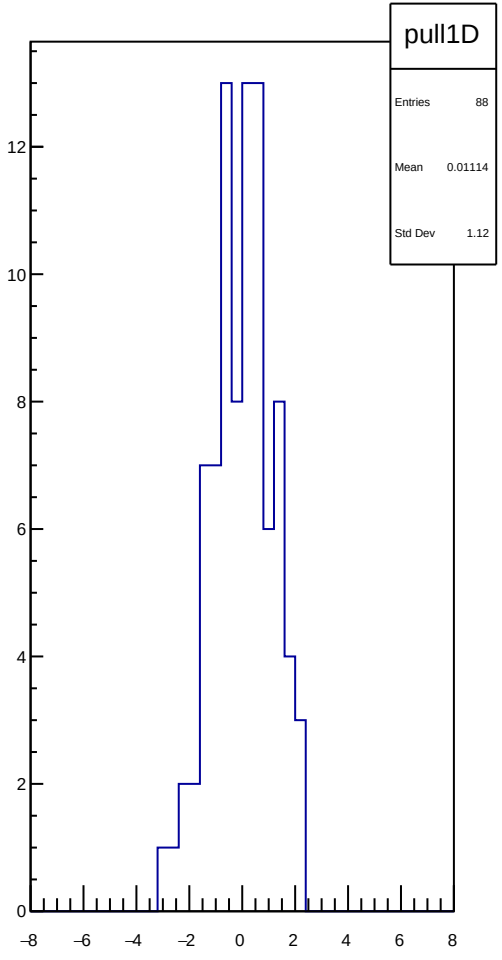

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 16.77 / 87
p0 −277.7 ± 0.3769
pull
Entries 88
Mean −1198
Std Dev 0
pull1D
Entries 88
Mean −0.001726
Std Dev 0.4365

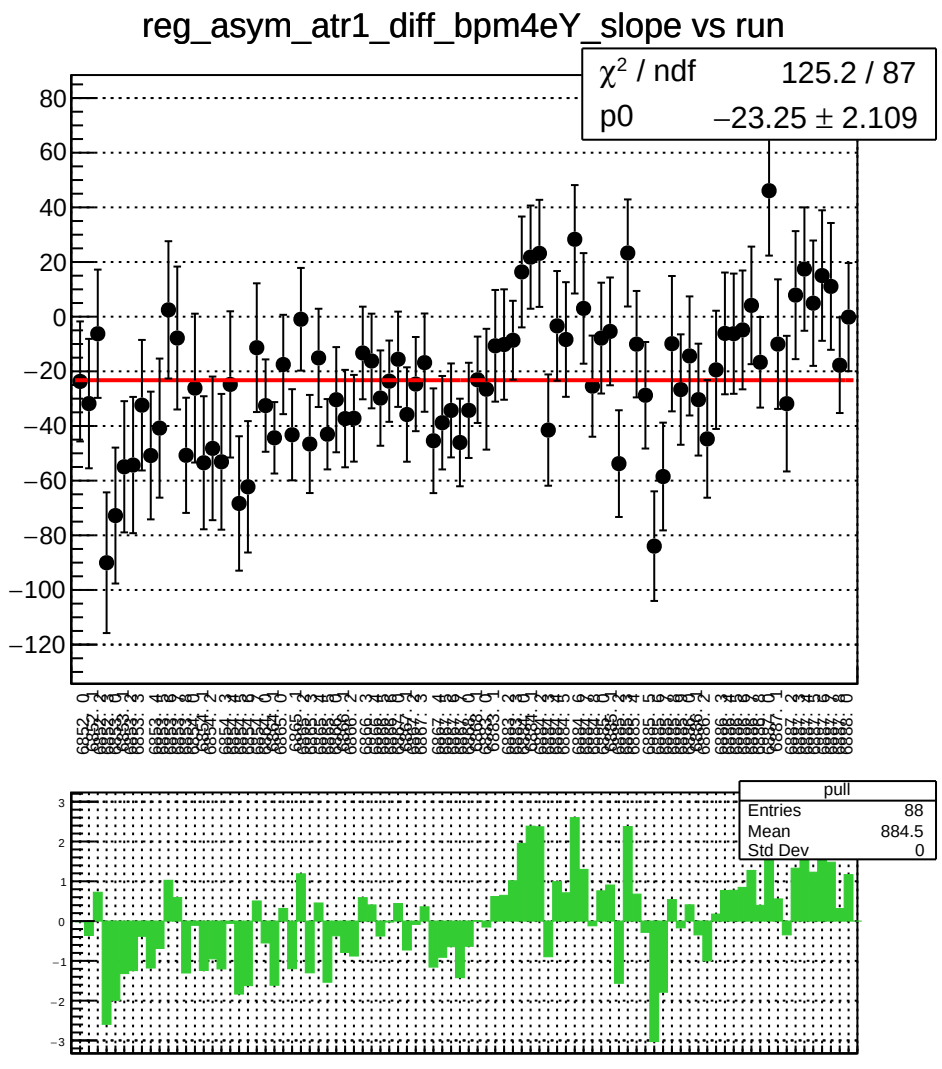

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 113.2 / 87
p0 −51 ± 3.102
50
0
−50
−100
−150
pull
Entries 88
Mean −449.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.0166
Std Dev 1.134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

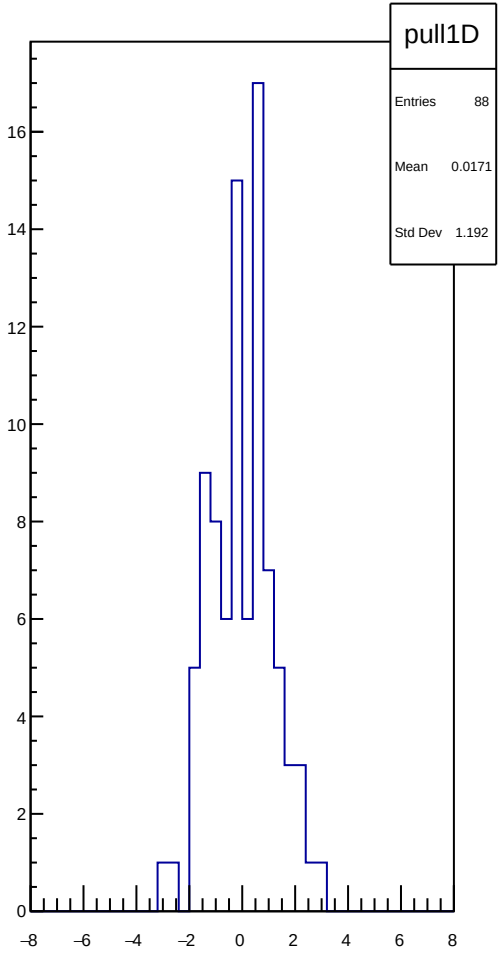

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 108.1 / 87
p0 11.17 ± 1.622
pull
Entries 88
Mean 433.1
Std Dev 0

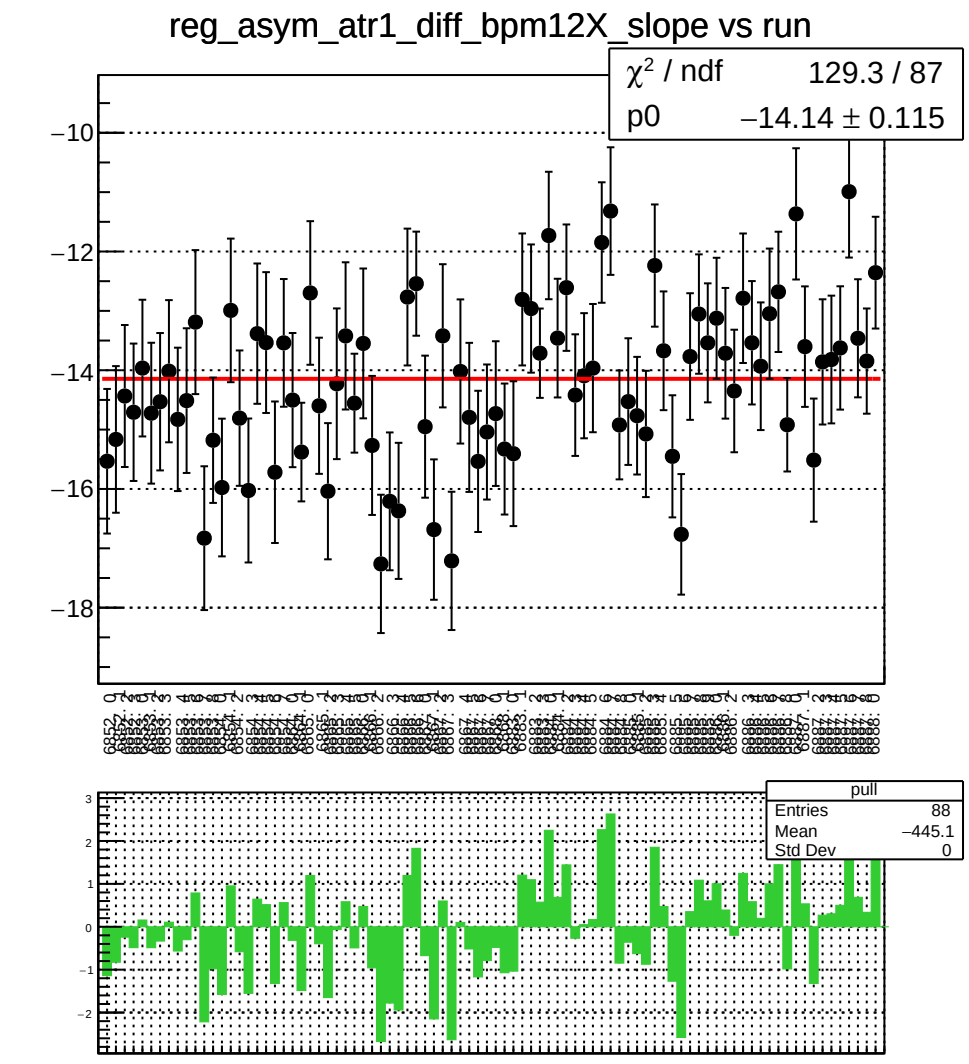

pull1D
Entries 88
Mean −0.02754
Std Dev 1.108

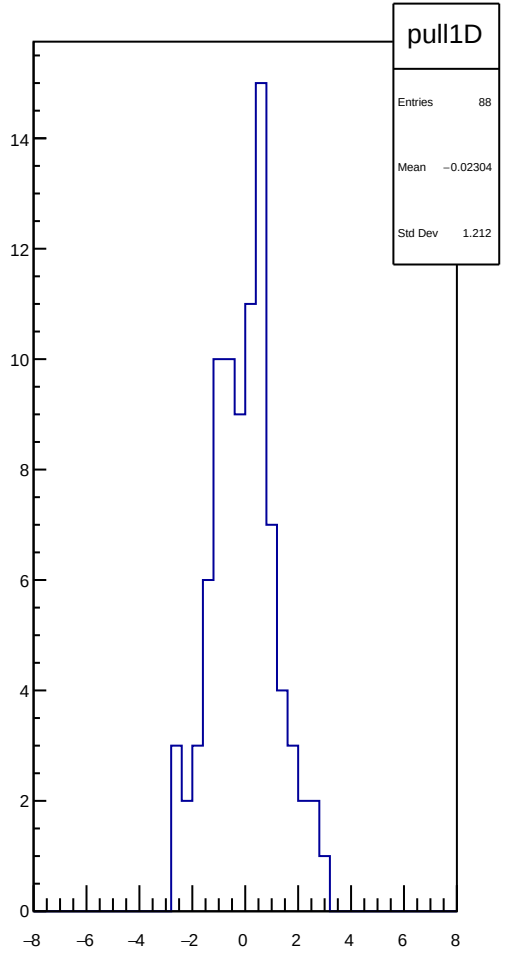

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 110.4 / 87
p0 −10.24 ± 2.961
pull
Entries 88
Mean −591.5
Std Dev 0

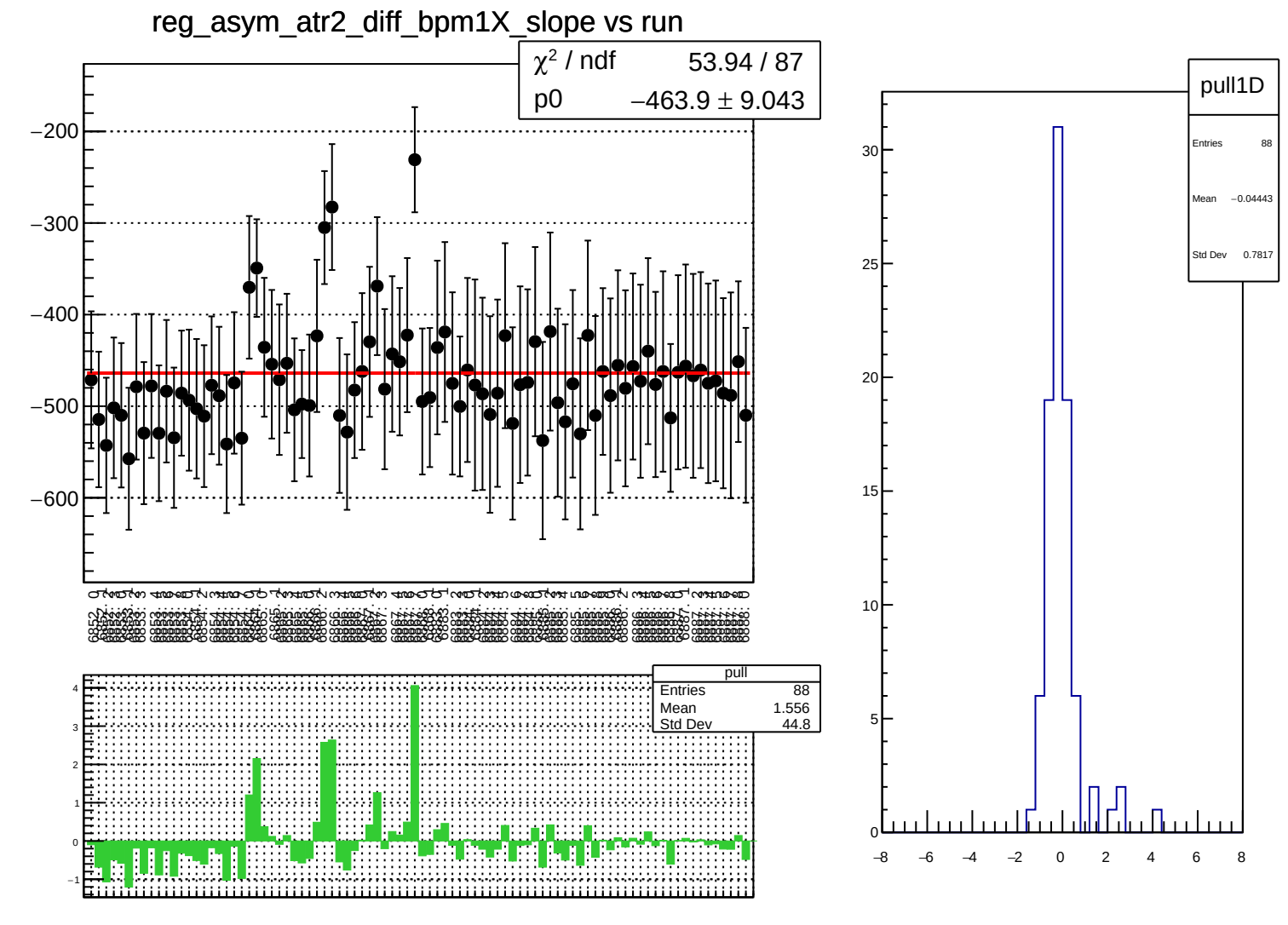

pull1D
Entries 88
Mean 0.01114
Std Dev 1.12

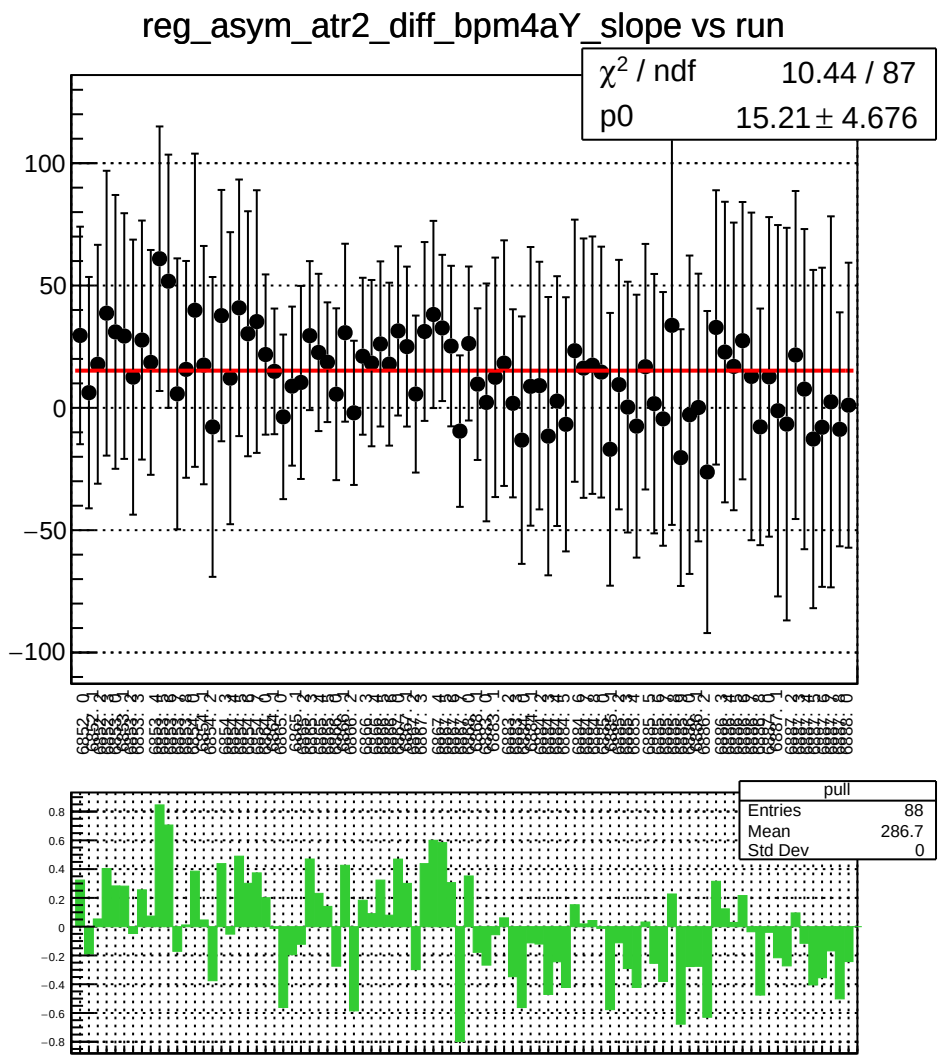

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 125.2 / 87
p0 −23.25 ± 2.109
pull
Entries 88
Mean 884.5
Std Dev 0

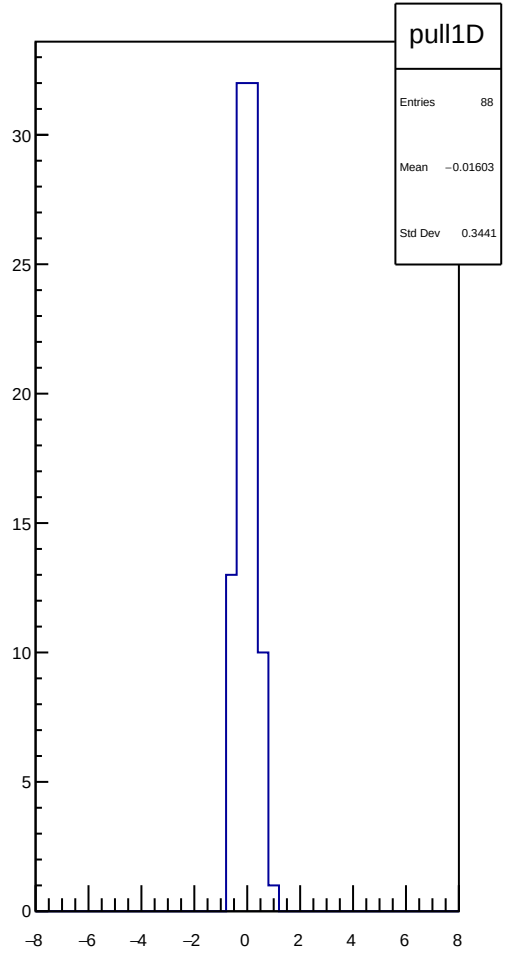

pull1D
Entries 88
Mean 0.0171
Std Dev 1.192

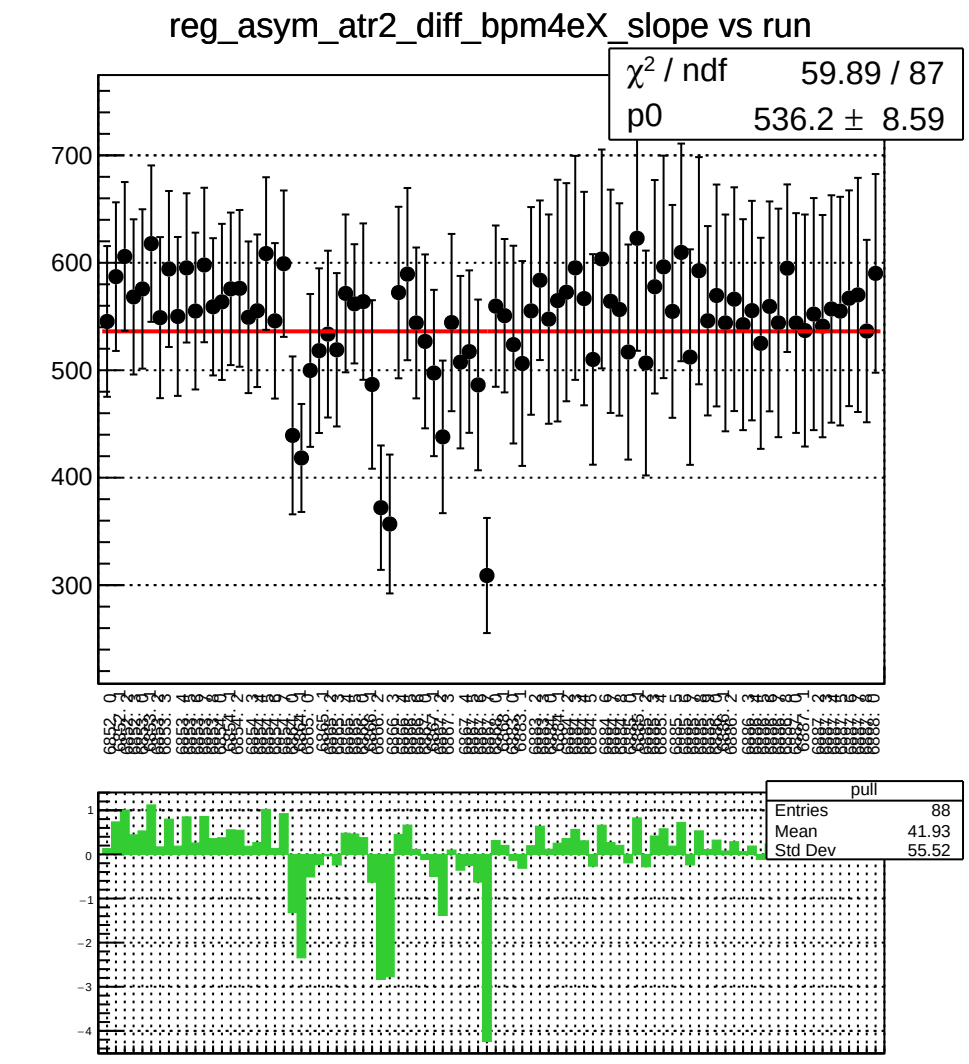

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 129.3 / 87
p0 −14.14 ± 0.115
−10
−12
−14
−16
−18
pull
Entries 88
Mean −445.1
Std Dev 0
3
2
1
0
−1
−2

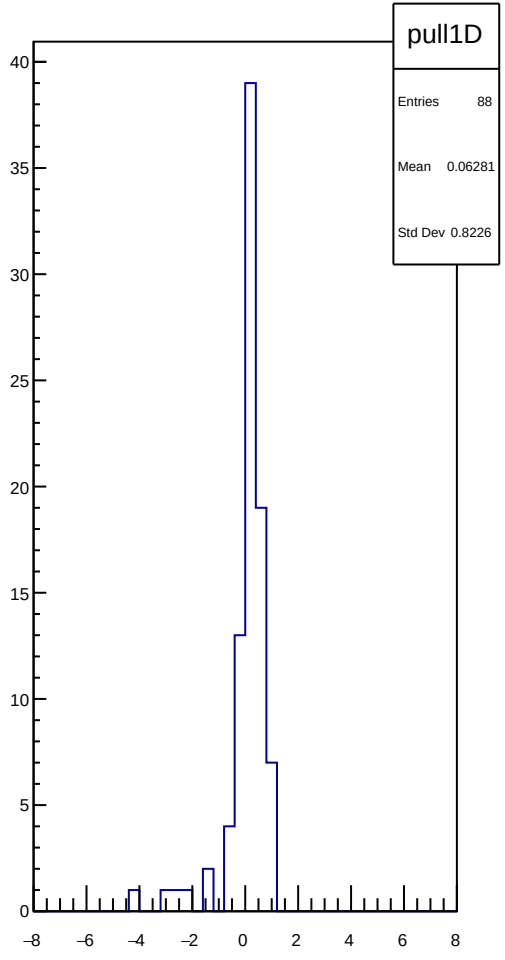

pull1D
Entries 88
Mean −0.02304
Std Dev 1.212
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

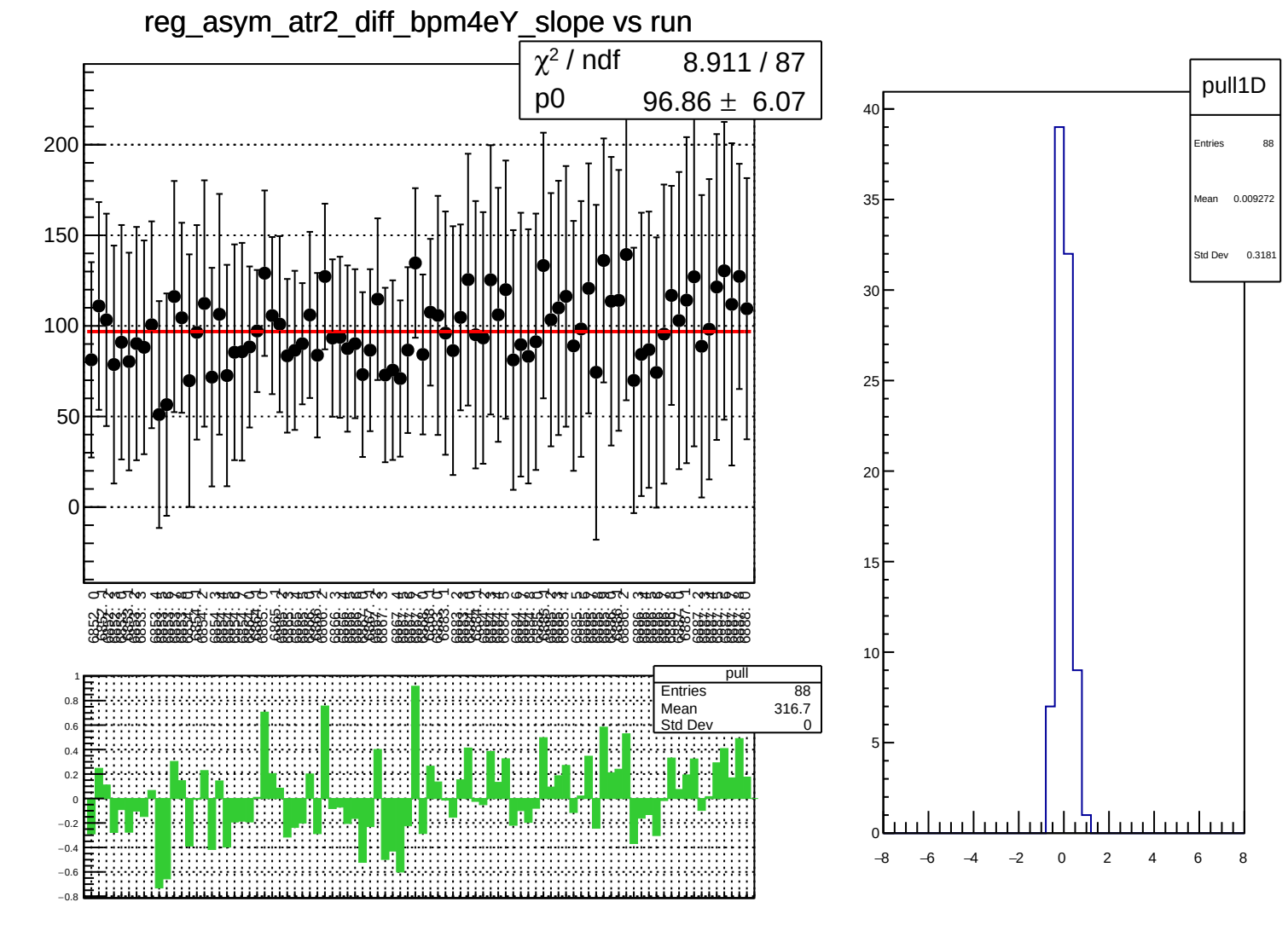

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 53.94 / 87
p0 −463.9 ± 9.043
−200
−300
−400
−500
−600
pull
Entries 88
Mean 1.556
Std Dev 44.8
4
3
2
1
0
−1
pull1D
Entries 88
Mean −0.04443
Std Dev 0.7817
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

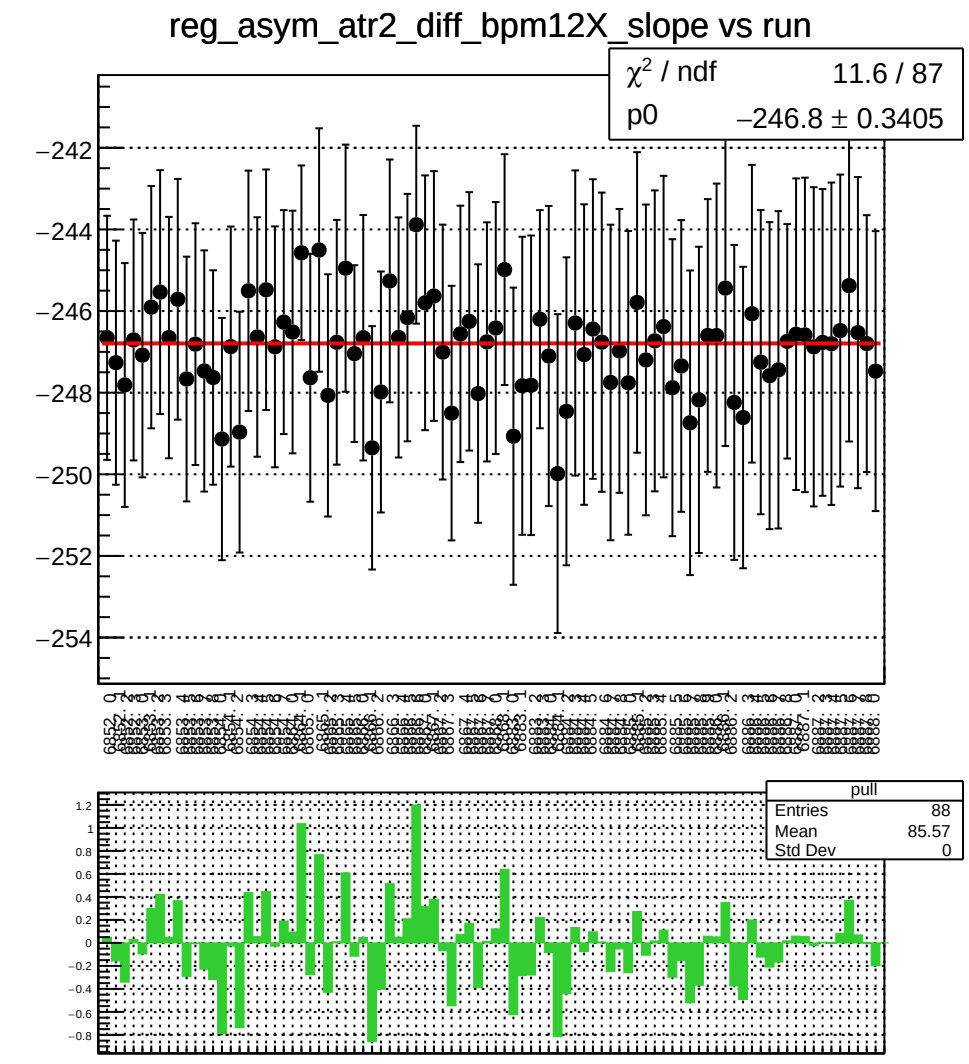

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 10.44 / 87
p0 15.21 ± 4.676
100
50
0
−50
−100
pull
Entries 88
Mean 286.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

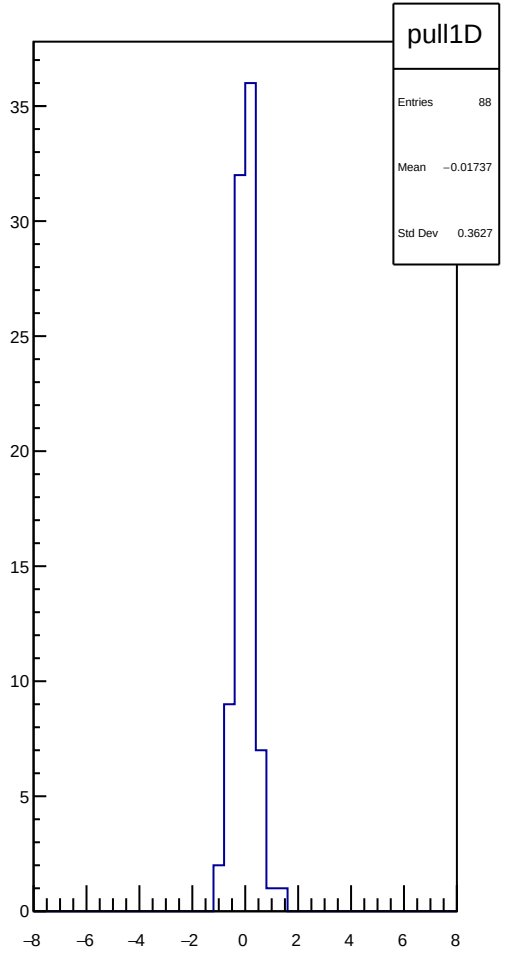

pull1D
Entries 88
Mean −0.01603
Std Dev 0.3441
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

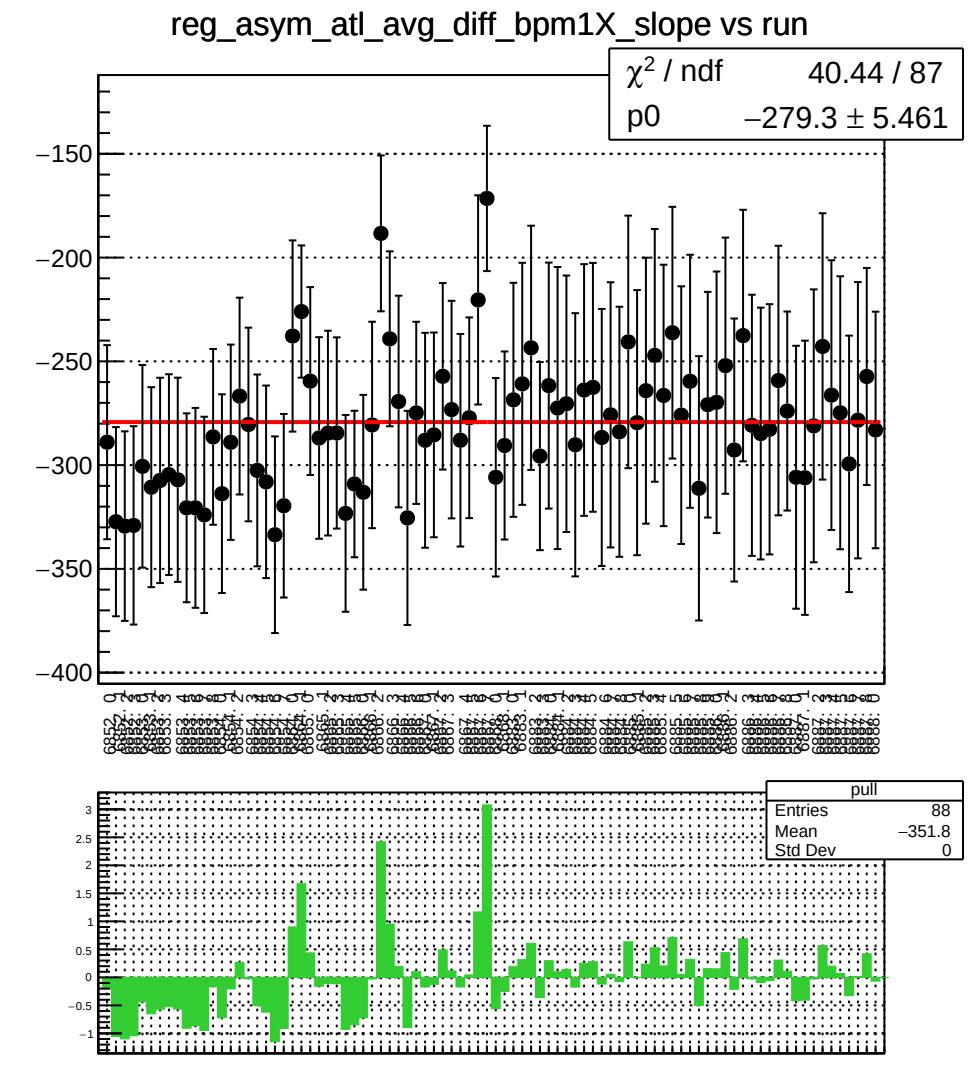

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 59.89 / 87
p0 536.2 ± 8.59
700
600
500
400
300
pull
Entries 88
Mean 41.93
Std Dev 55.52
1
0
−1
−2
−3
−4

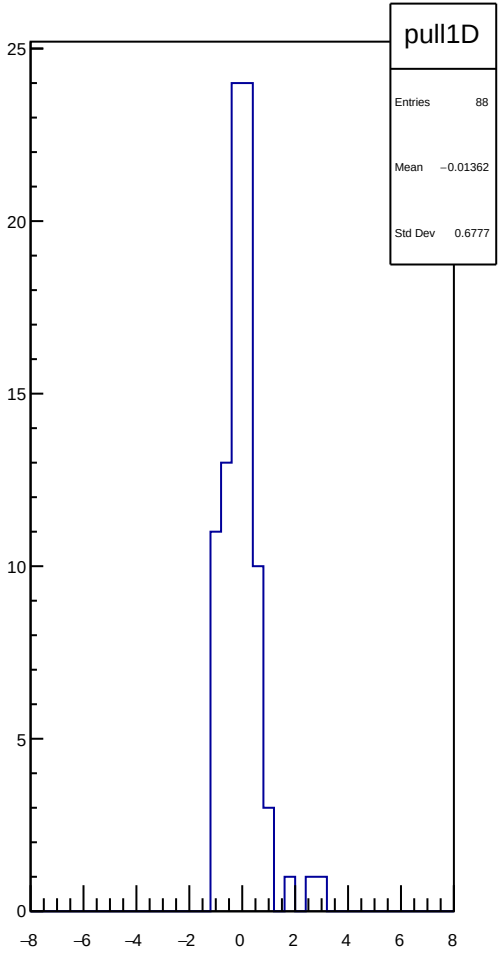

pull1D
Entries 88
Mean 0.06281
Std Dev 0.8226
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

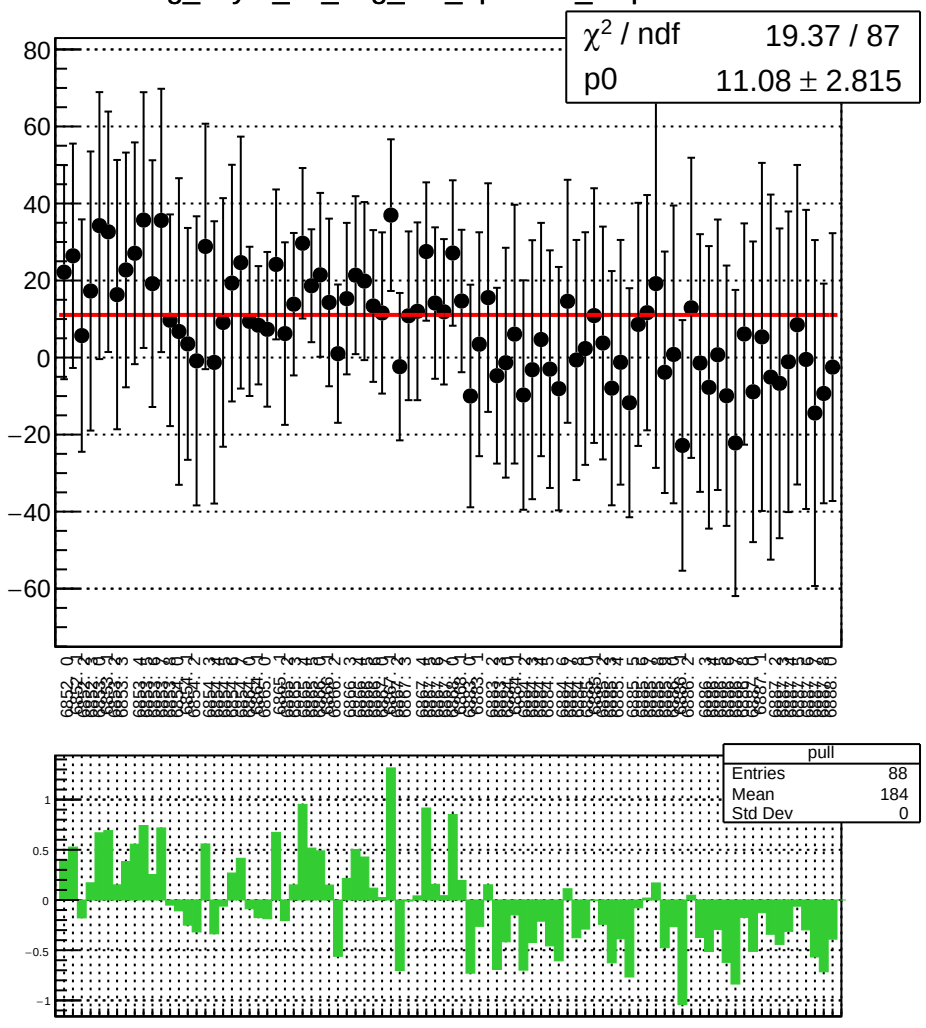

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 8.911 / 87
p0 96.86 ± 6.07
200
150
100
50
0
pull
Entries 88
Mean 316.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean 0.009272
Std Dev 0.3181
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

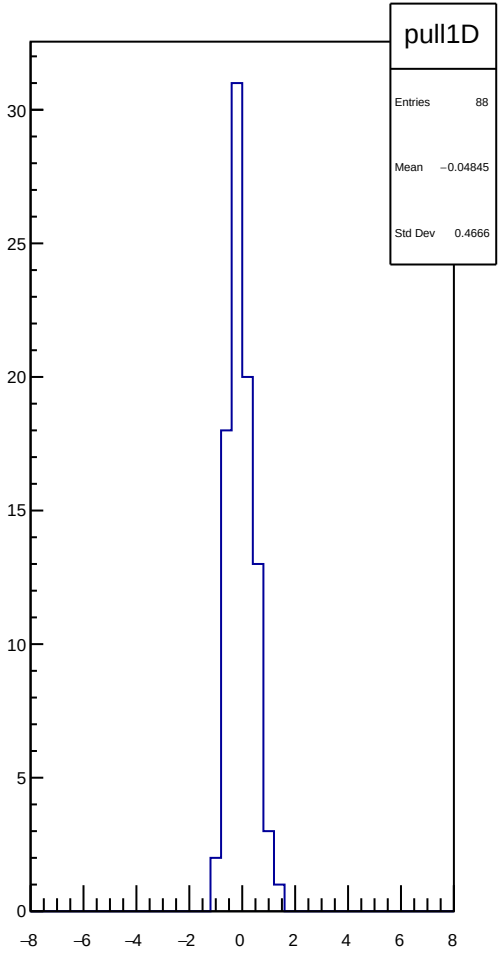

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 11.6 / 87
p0 −246.8 ± 0.3405
−242
−244
−246
−248
−250
−252
−254
pull
Entries 88
Mean 85.57
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

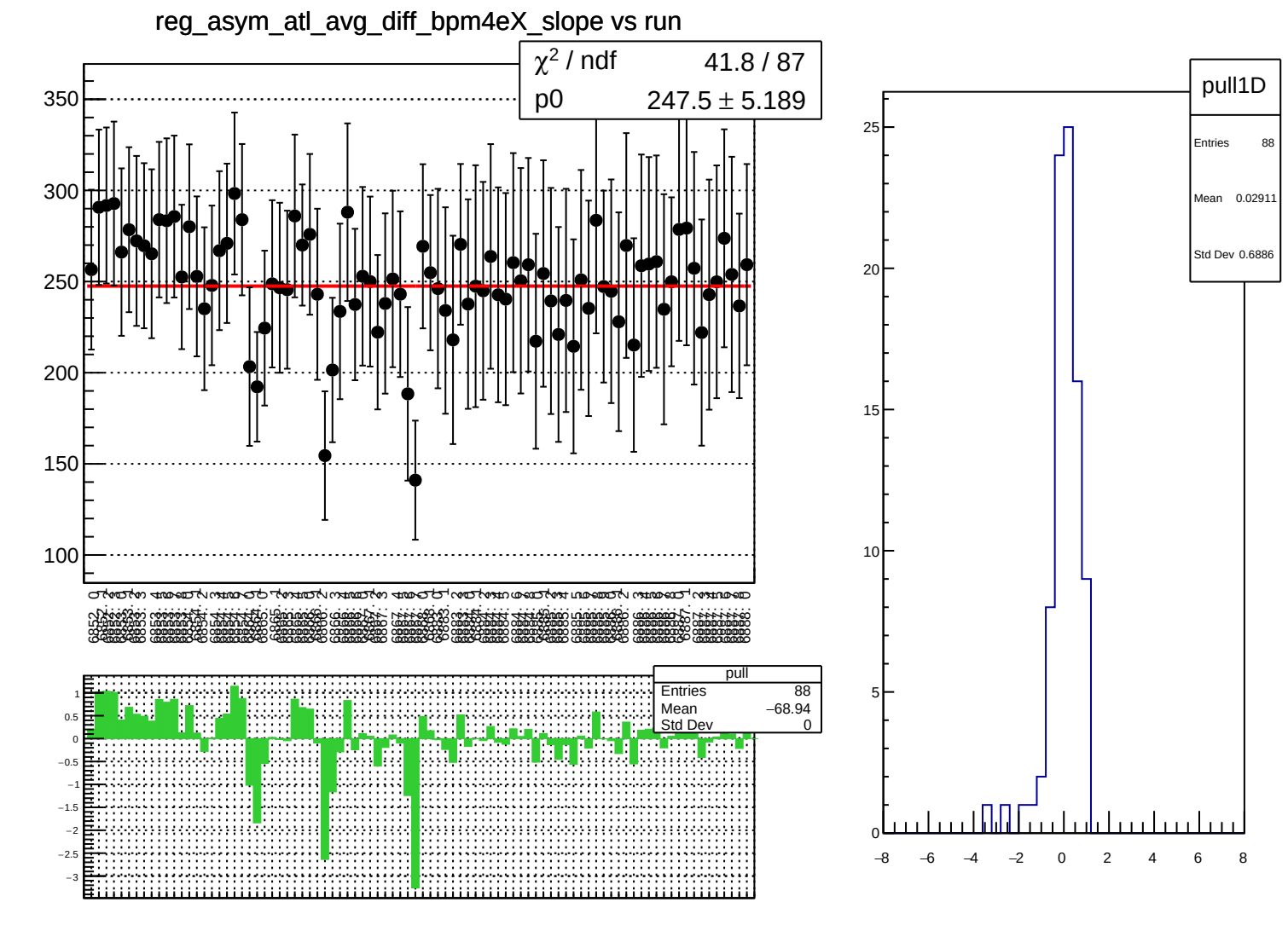

pull1D
Entries 88
Mean −0.01737
Std Dev 0.3627
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

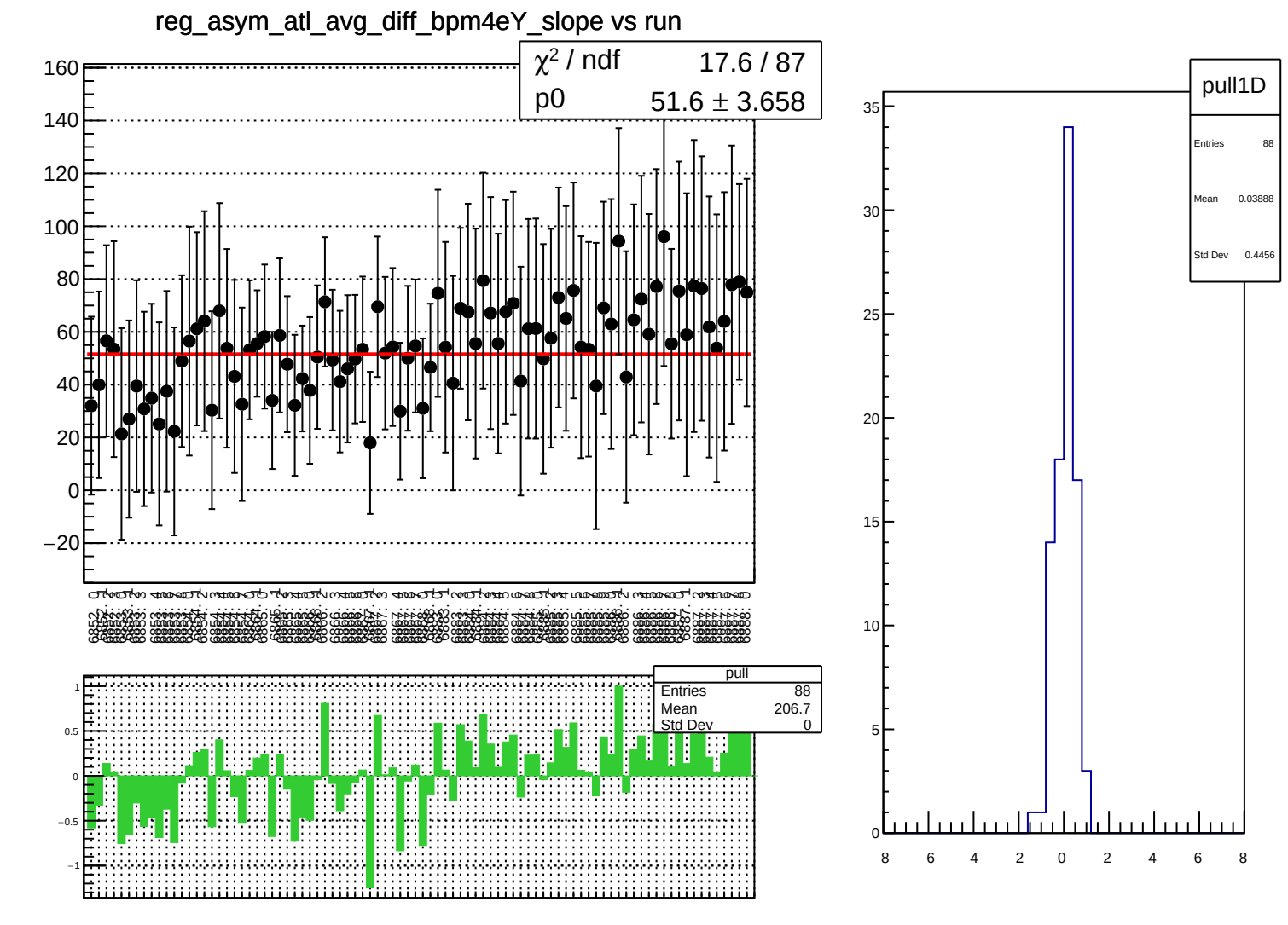

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 40.44 / 87
p0 −279.3 ± 5.461
−150
−200
−250
−300
−350
−400
pull
Entries 88
Mean −351.8
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1

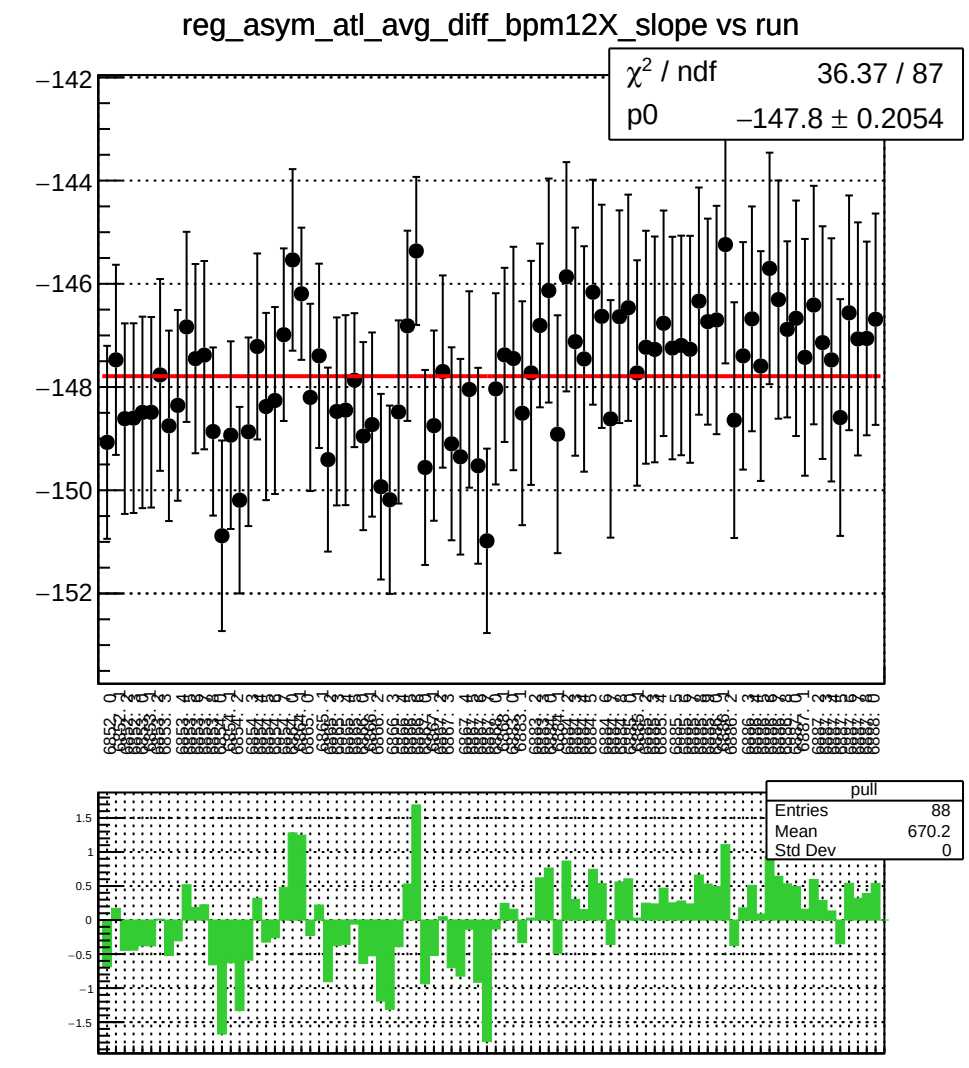

pull1D
Entries 88
Mean −0.01362
Std Dev 0.6777
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

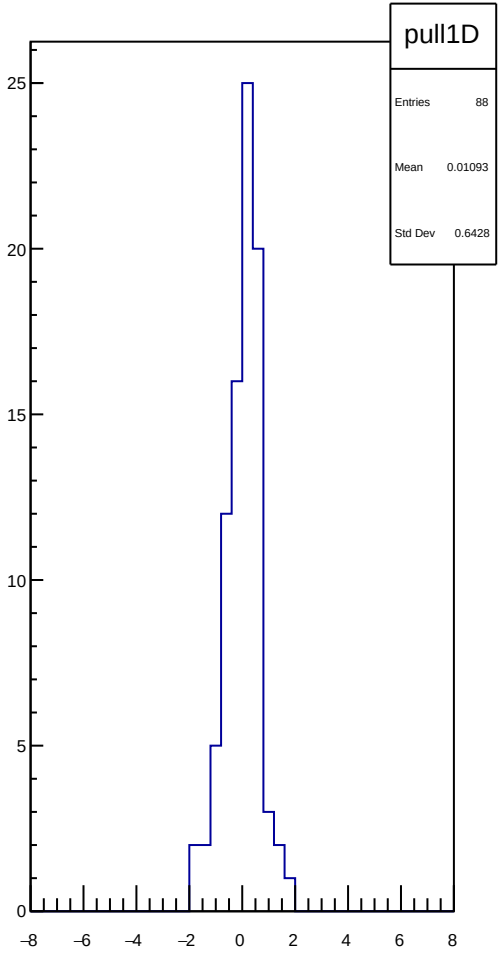

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.37 / 87
p0 11.08 ± 2.815
pull
Entries 88
Mean 184
Std Dev 0

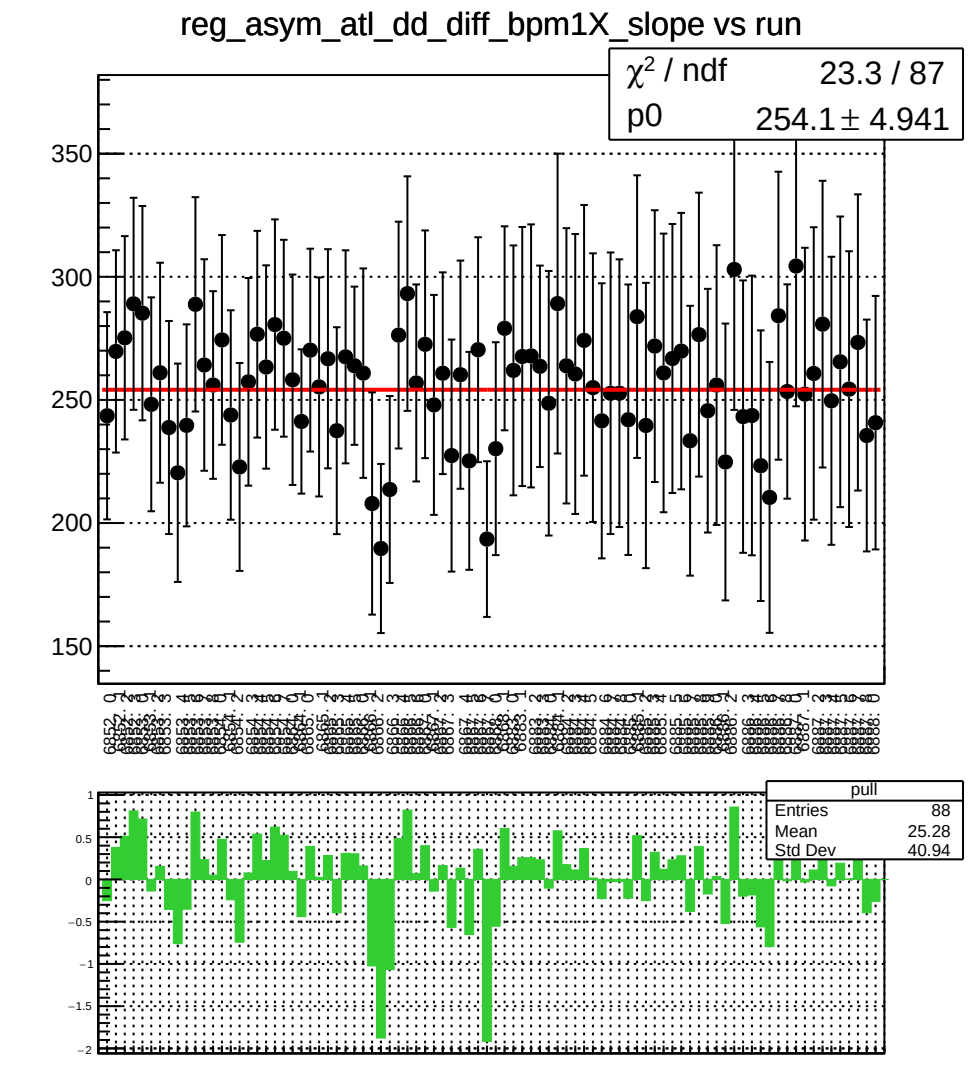

pull1D
Entries 88
Mean −0.04845
Std Dev 0.4666

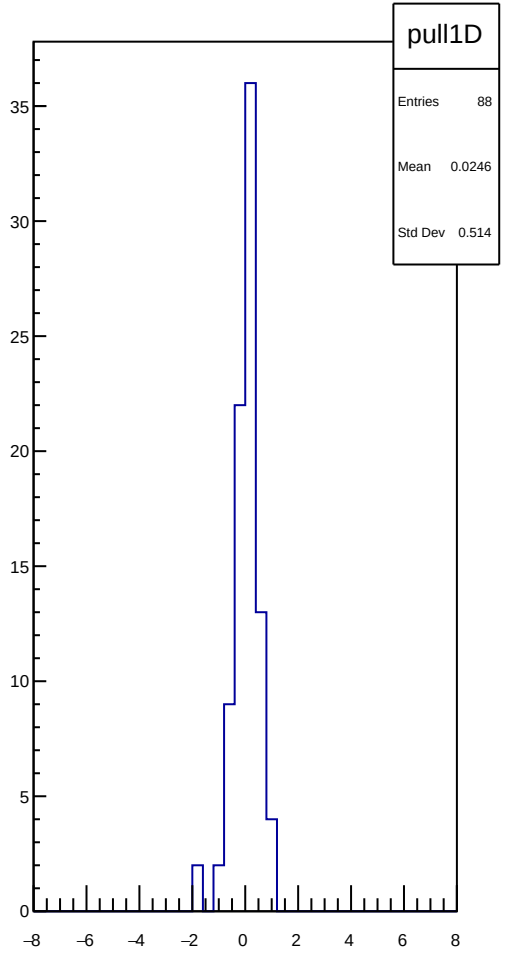

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 41.8 / 87
p0 247.5 ± 5.189
350
300
250
200
150
100
pull
Entries 88
Mean −68.94
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 88
Mean 0.02911
Std Dev 0.6886
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

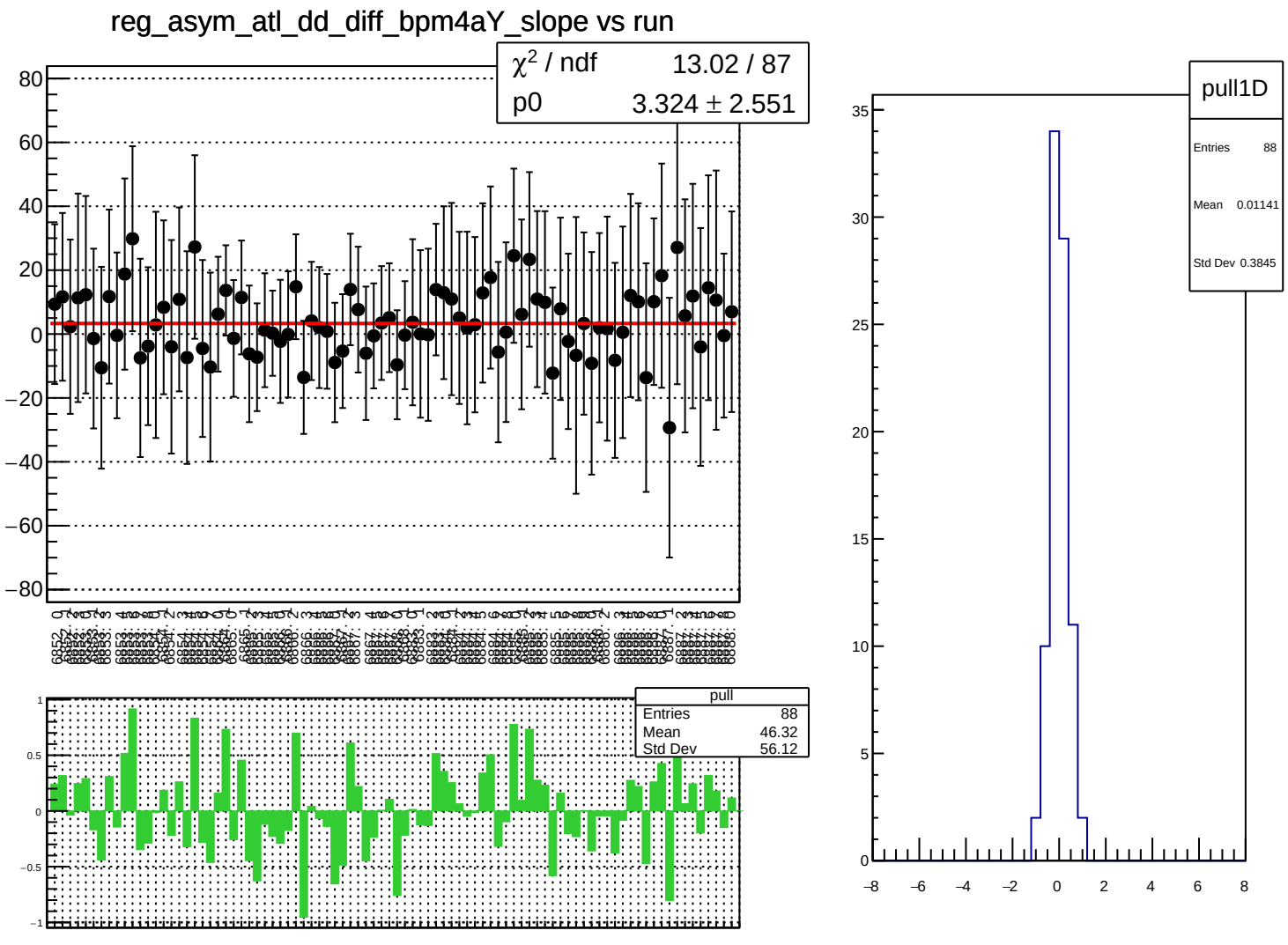

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.6 / 87
p0 51.6 ± 3.658
pull
Entries 88
Mean 206.7
Std Dev 0
pull1D
Entries 88
Mean 0.03888
Std Dev 0.4456

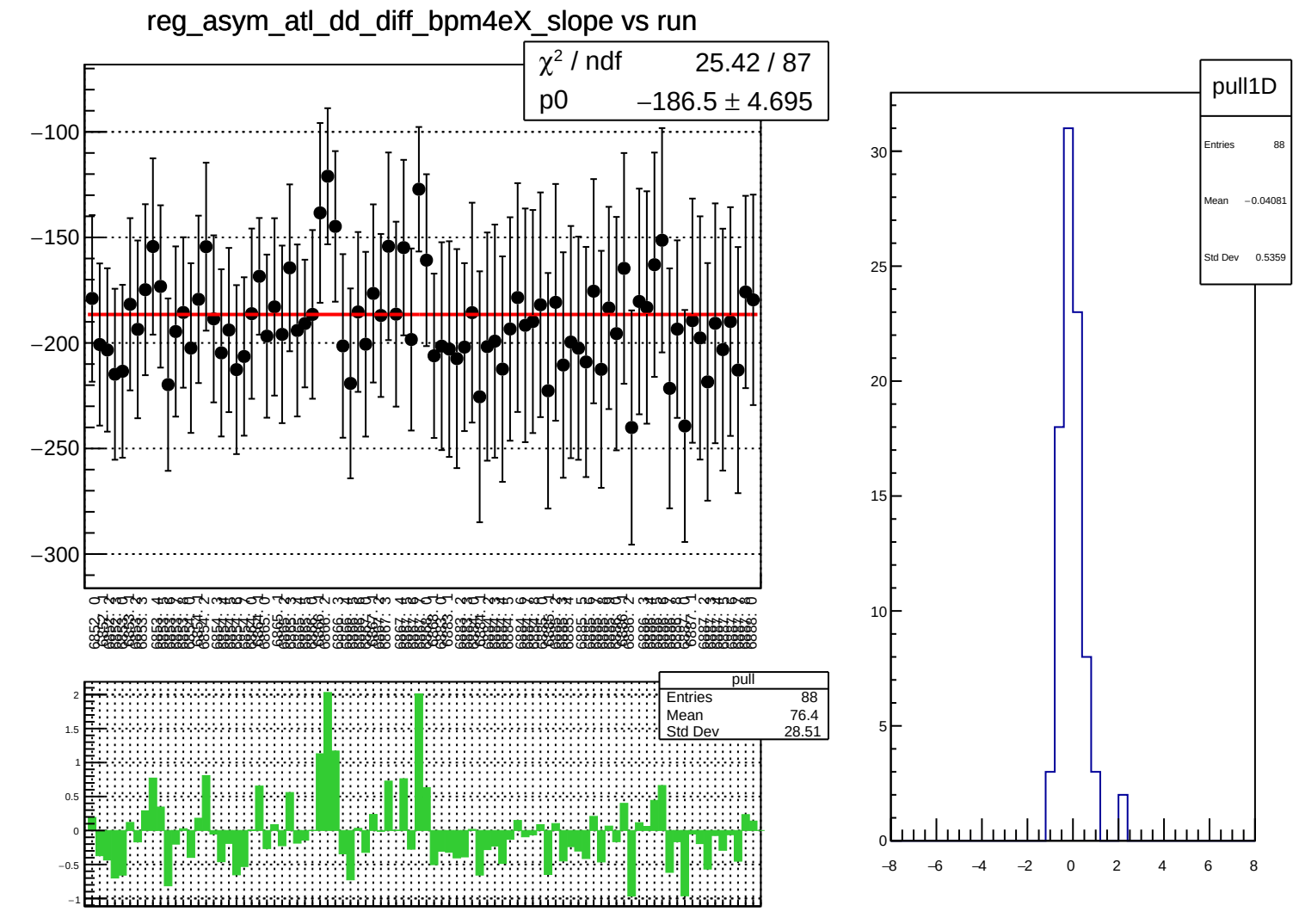

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 36.37 / 87
p0 −147.8 ± 0.2054
−142
−144
−146
−148
−150
−152
pull
Entries 88
Mean 670.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

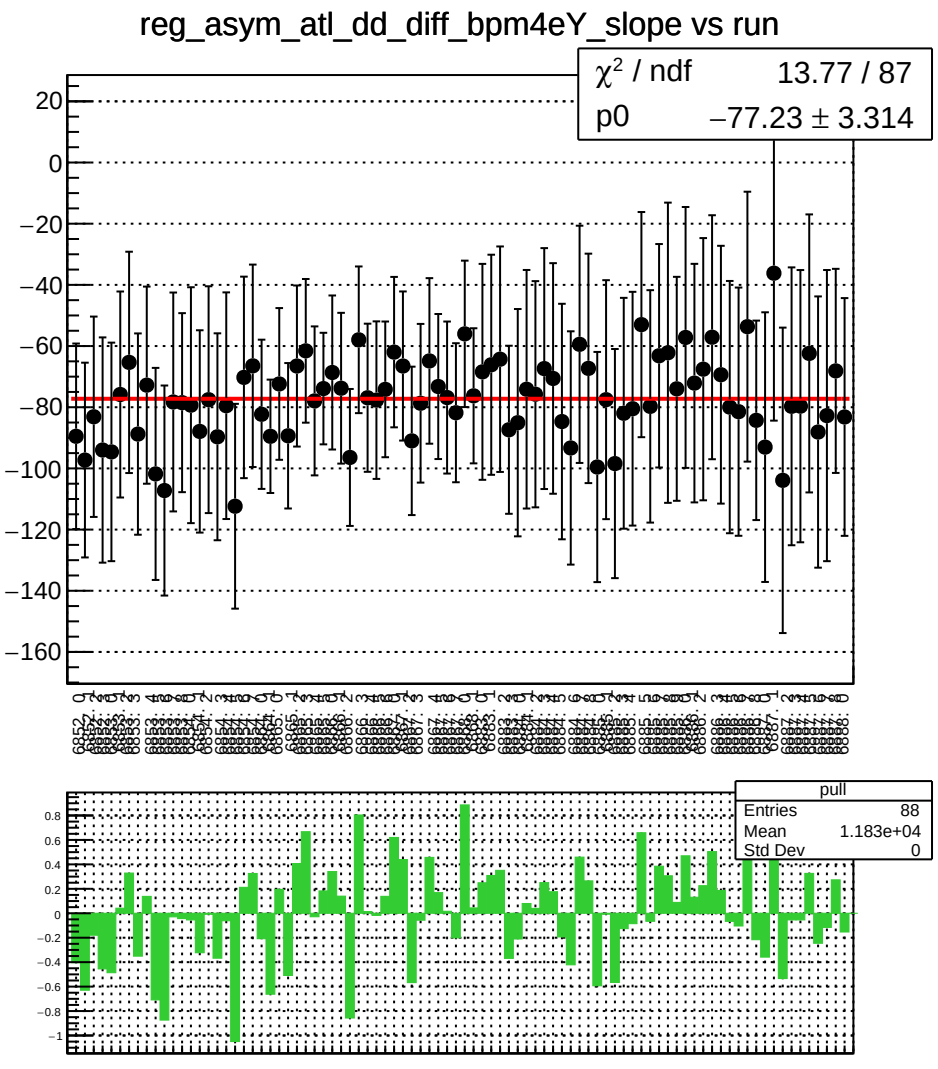

pull1D
Entries 88
Mean 0.01093
Std Dev 0.6428
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

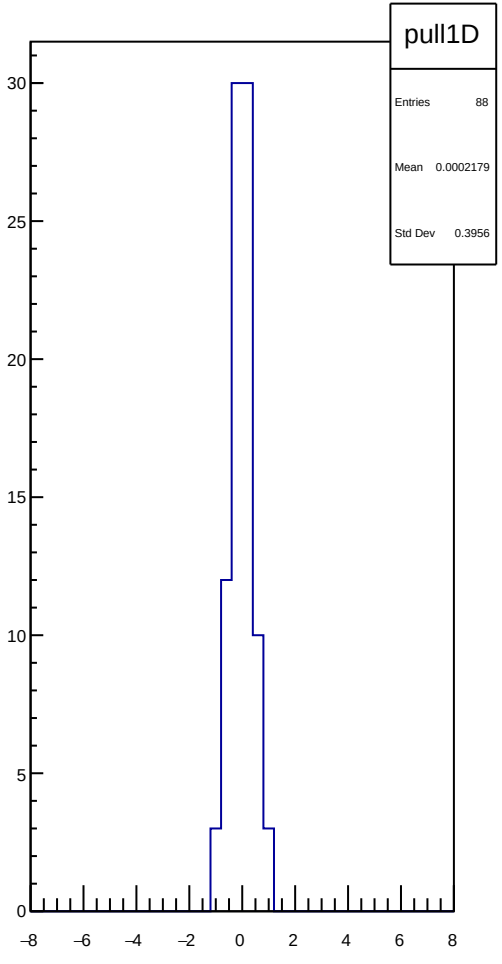

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 23.3 / 87
p0 254.1 ± 4.941
350
300
250
200
150
pull
Entries 88
Mean 25.28
Std Dev 40.94
1
0.5
0
−0.5
−1
−1.5
−2

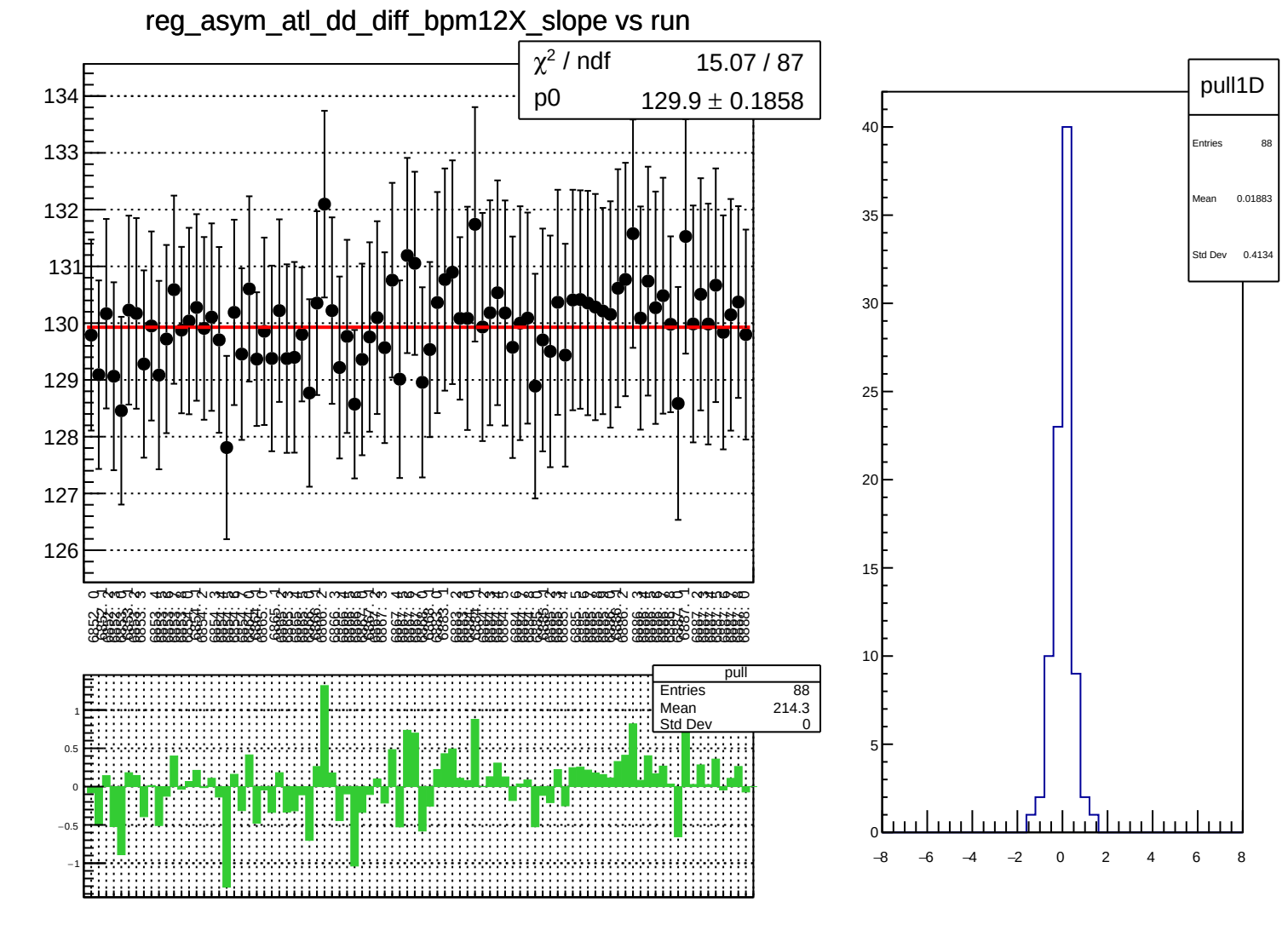

pull1D
Entries 88
Mean 0.0246
Std Dev 0.514
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

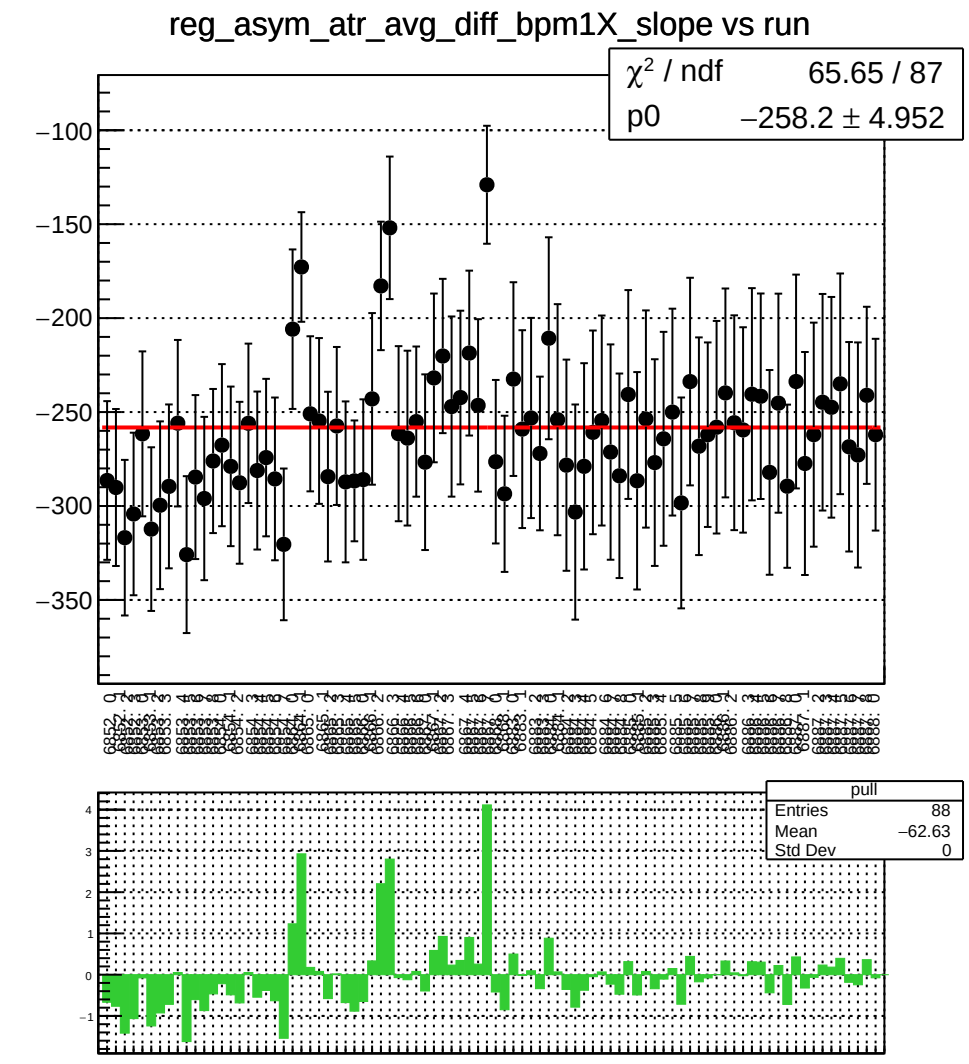

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.02 / 87
p0 3.324 ± 2.551
pull
Entries 88
Mean 46.32
Std Dev 56.12
pull1D
Entries 88
Mean 0.01141
Std Dev 0.3845

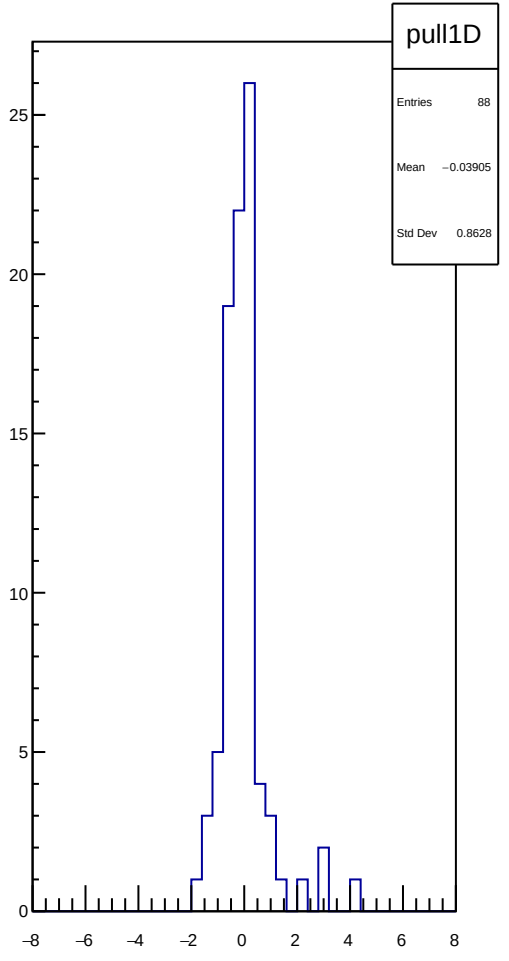

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.42 / 87
p0 −186.5 ± 4.695
−100
−150
−200
−250
−300
pull
Entries 88
Mean 76.4
Std Dev 28.51
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.04081
Std Dev 0.5359
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

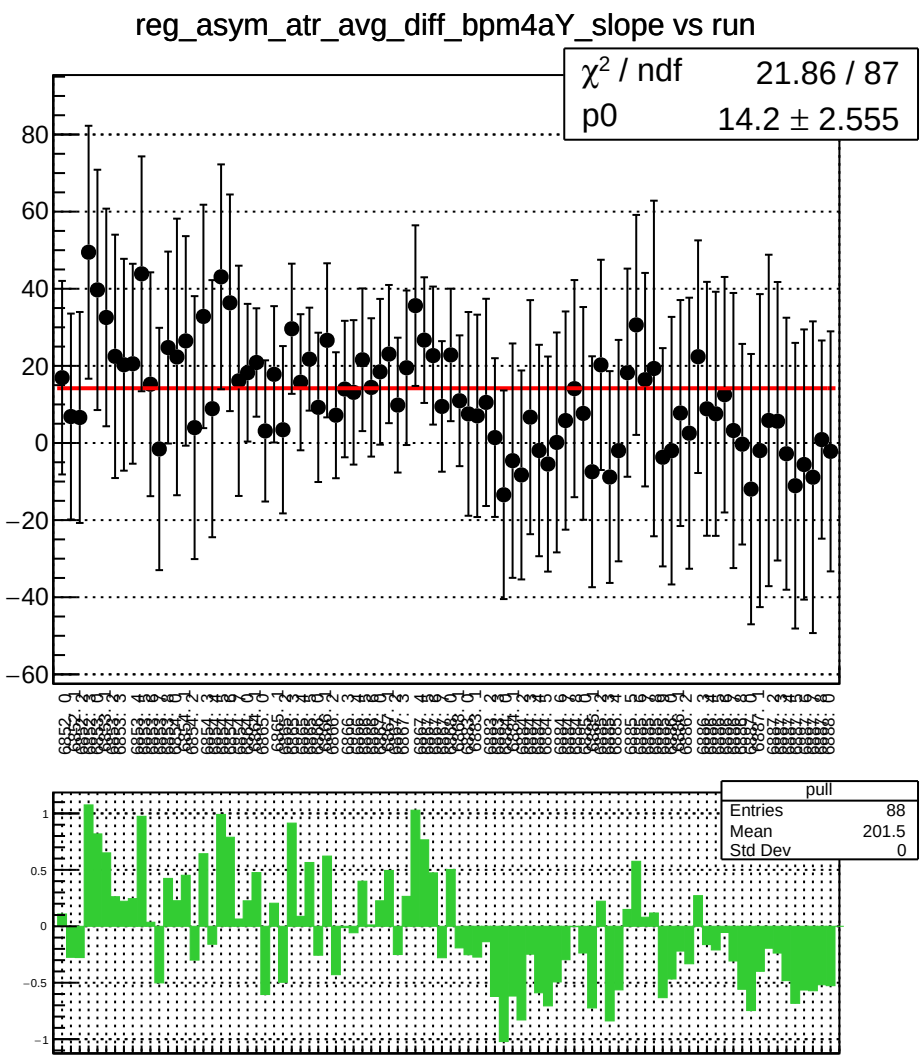

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.77 / 87
p0 −77.23 ± 3.314
pull
Entries 88
Mean 1.183e+04
Std Dev 0

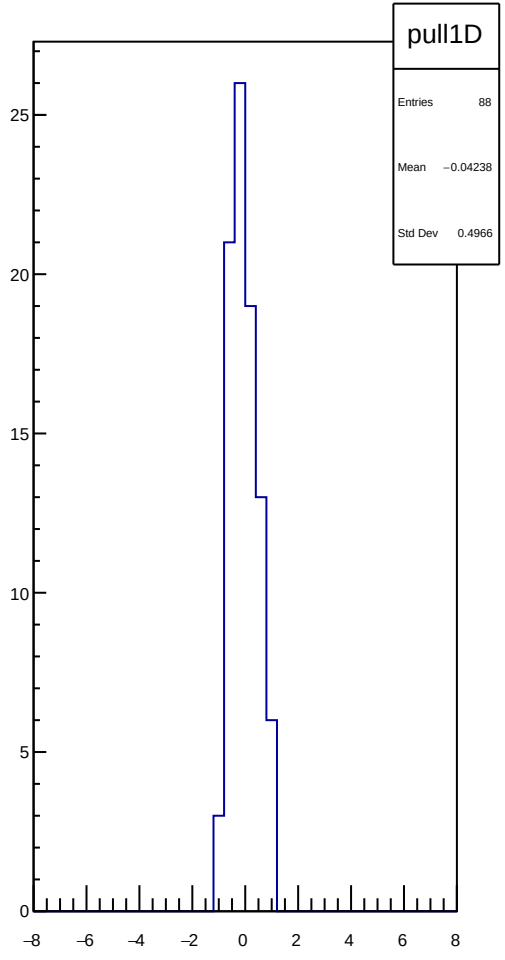

pull1D
Entries 88
Mean 0.0002179
Std Dev 0.3956

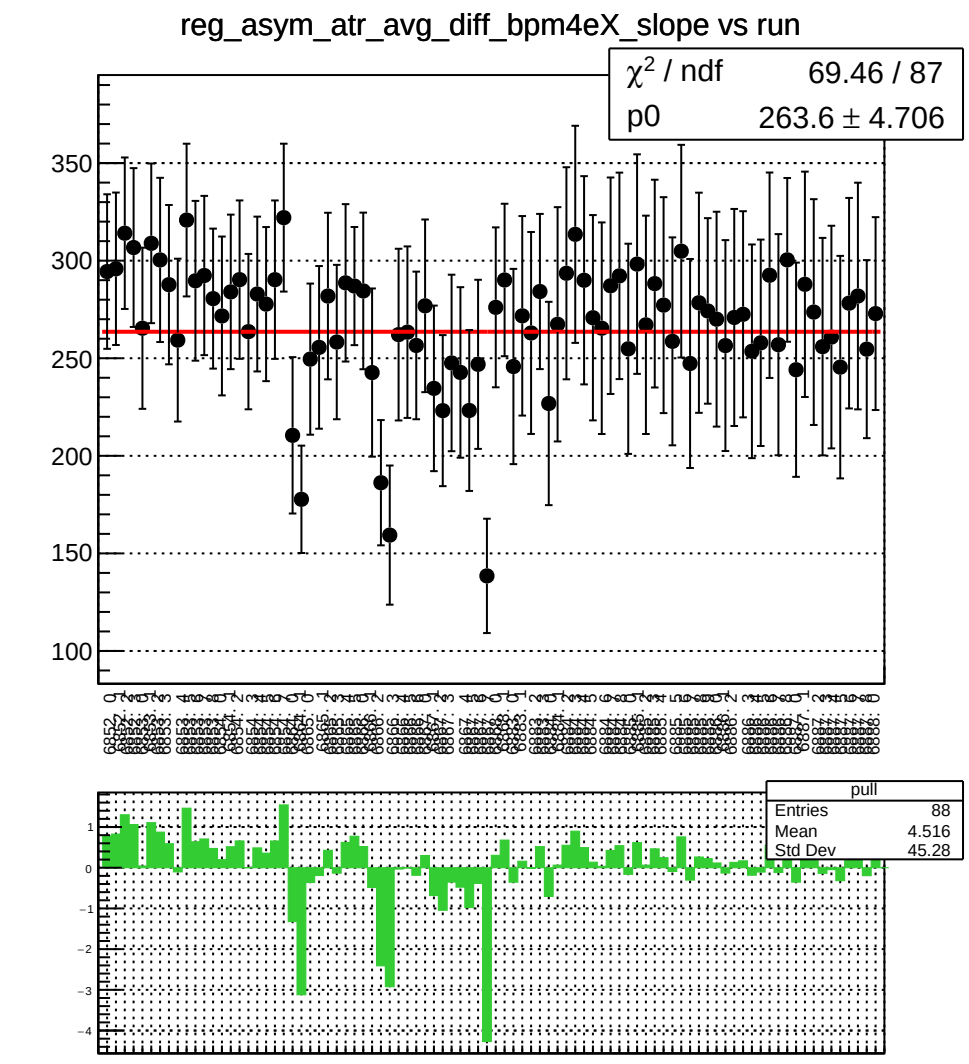

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 15.07 / 87
p0 129.9 ± 0.1858
pull
Entries 88
Mean 214.3
Std Dev 0
pull1D
Entries 88
Mean 0.01883
Std Dev 0.4134

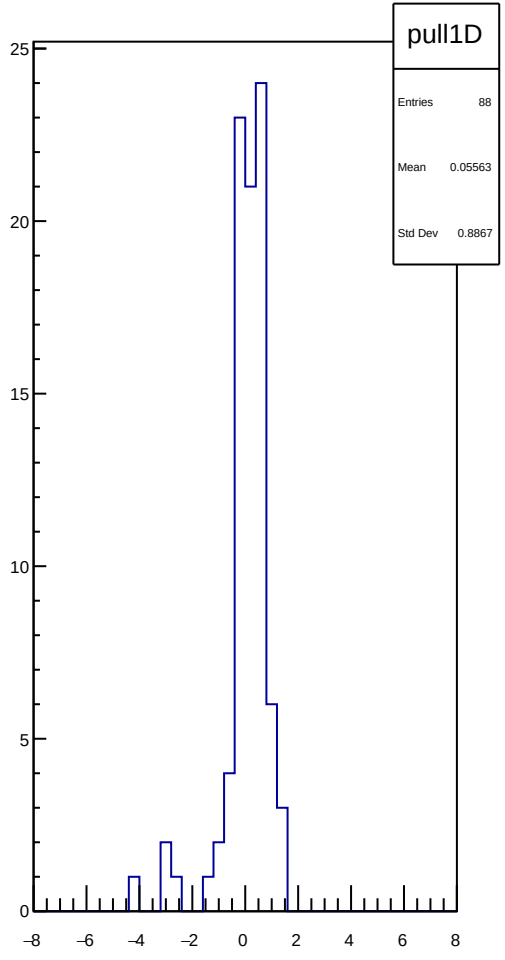

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 65.65 / 87
p0 −258.2 ± 4.952
−100
−150
−200
−250
−300
−350
pull
Entries 88
Mean −62.63
Std Dev 0
4
3
2
1
0
−1

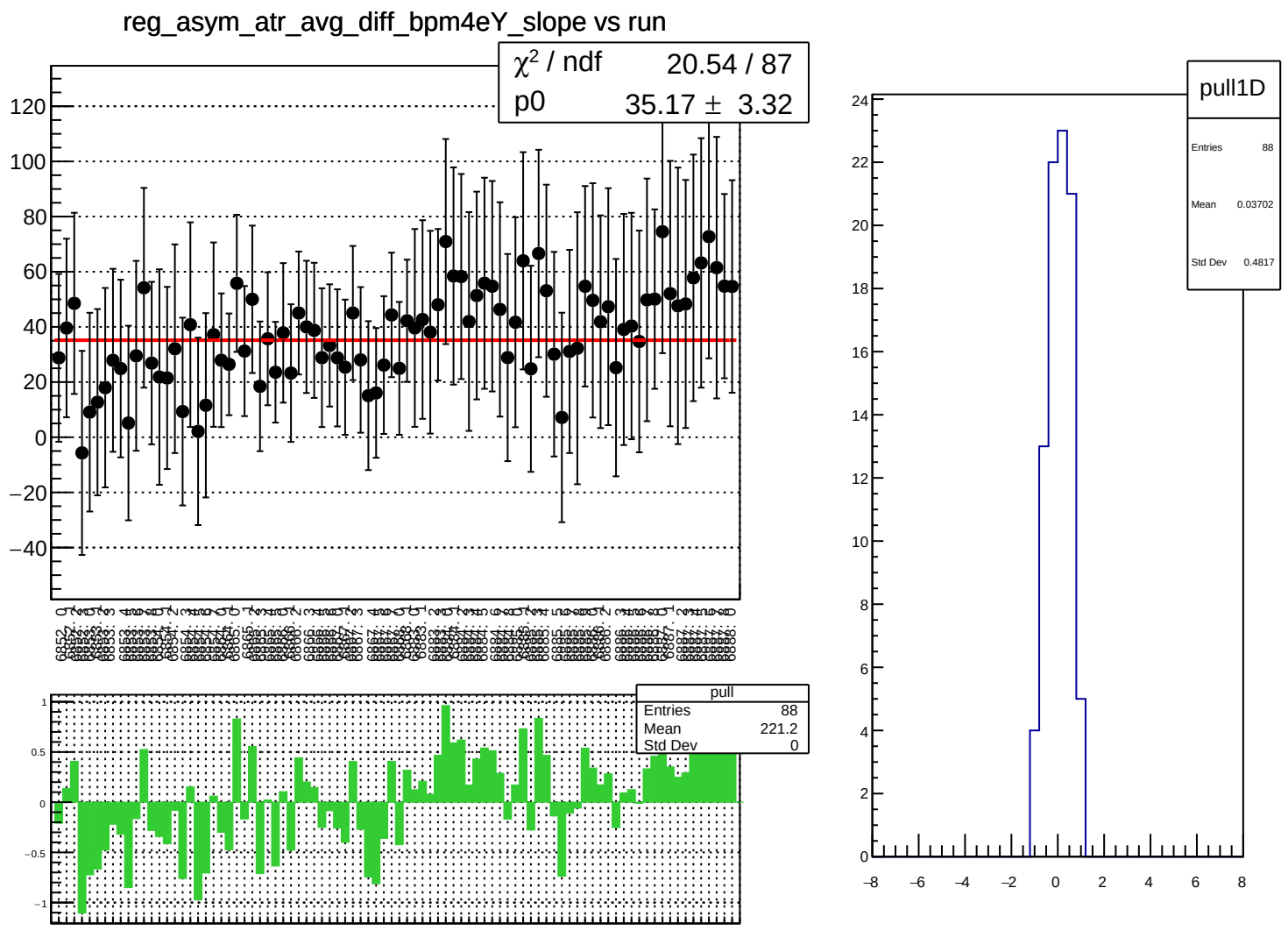

pull1D
Entries 88
Mean −0.03905
Std Dev 0.8628
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

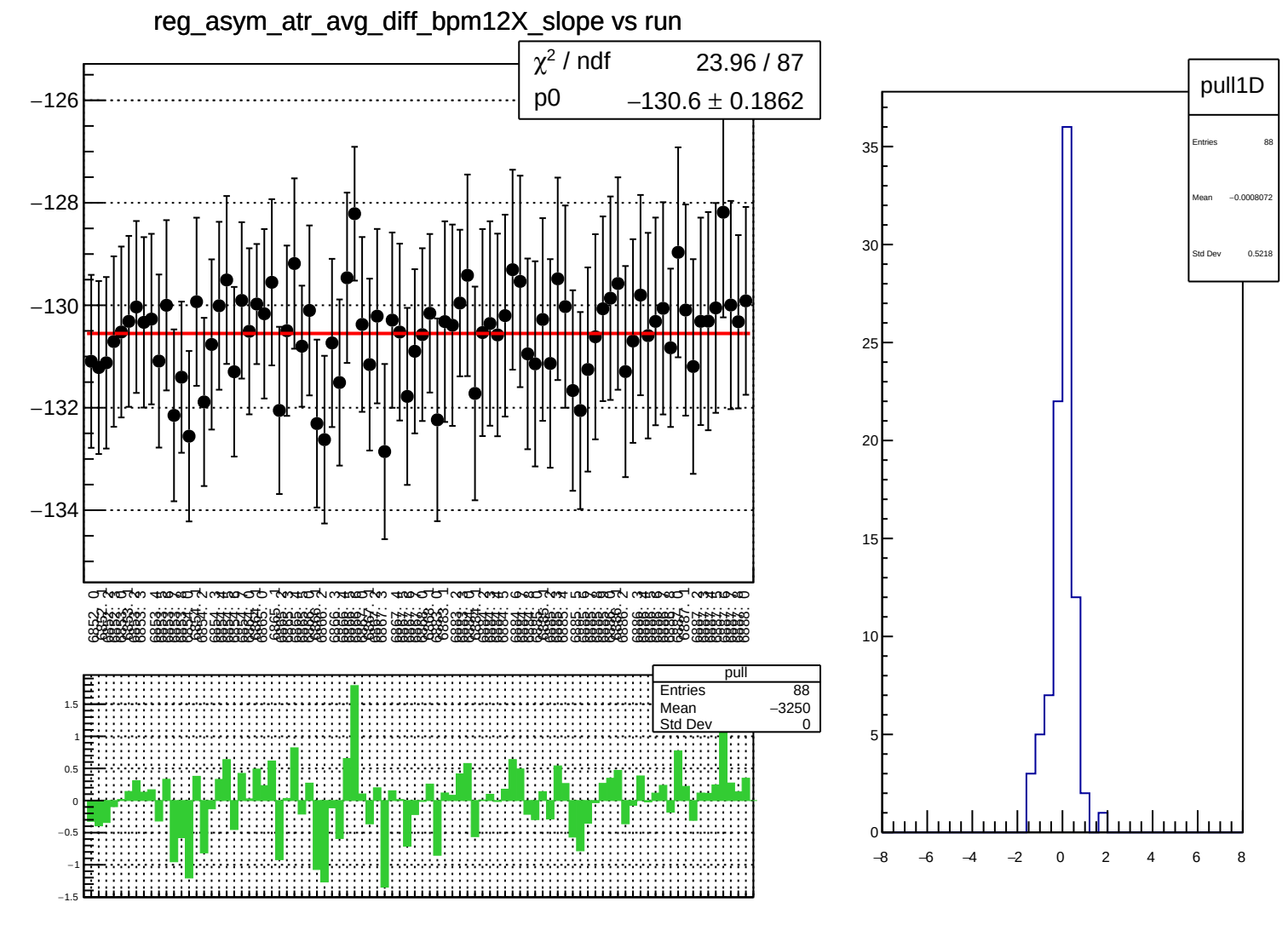

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.86 / 87
p0 14.2 ± 2.555
pull
Entries 88
Mean 201.5
Std Dev 0

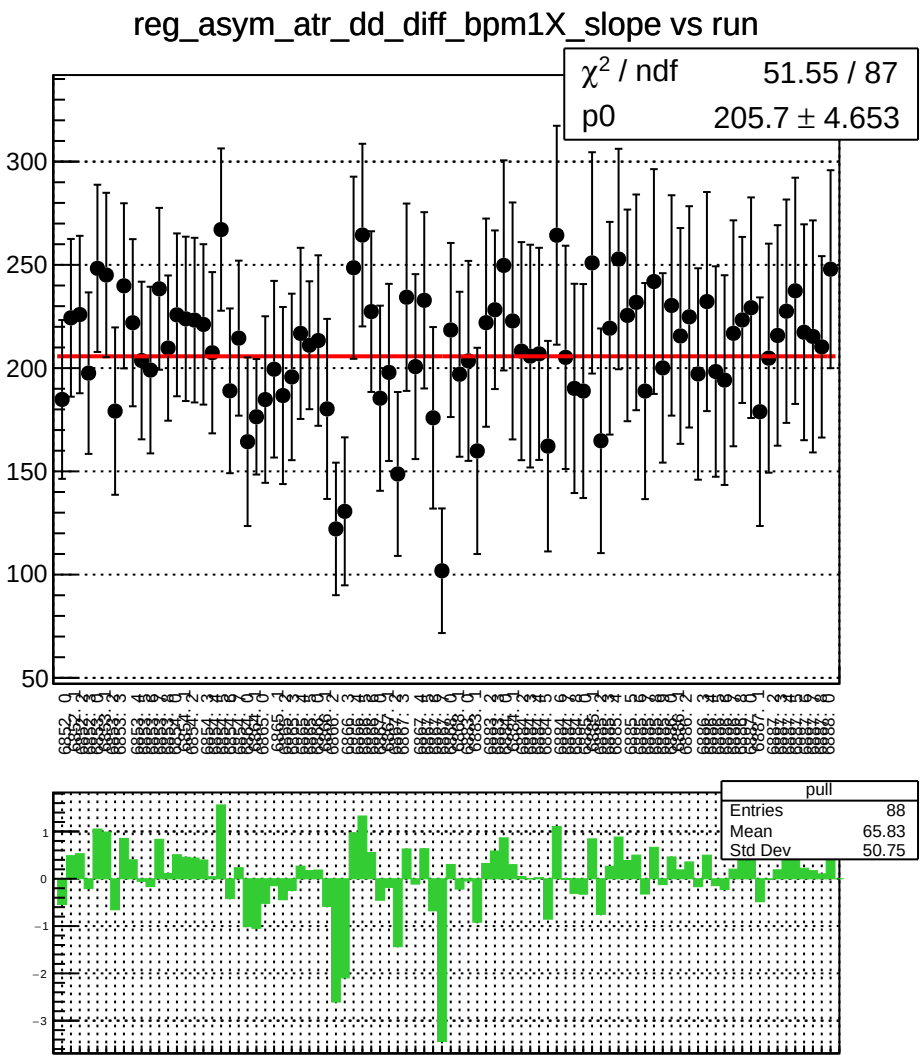

pull1D
Entries 88
Mean −0.04238
Std Dev 0.4966

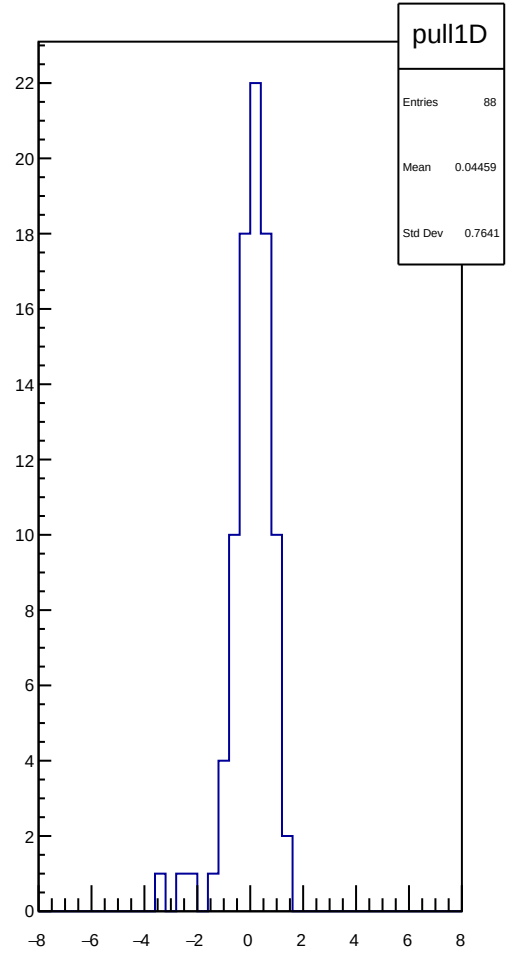

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 69.46 / 87
p0 263.6 ± 4.706
350
300
250
200
150
100
pull
Entries 88
Mean 4.516
Std Dev 45.28
1
0
−1
−2
−3
−4

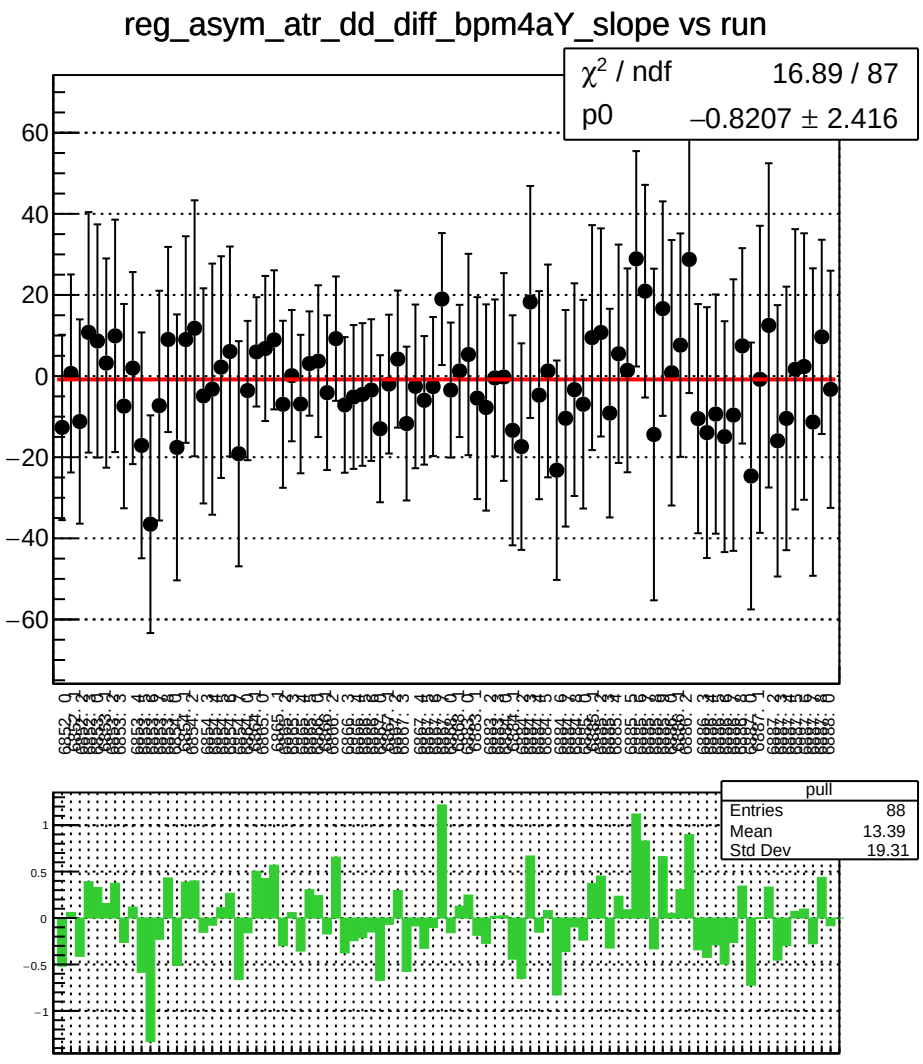

pull1D
Entries 88
Mean 0.05563
Std Dev 0.8867
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

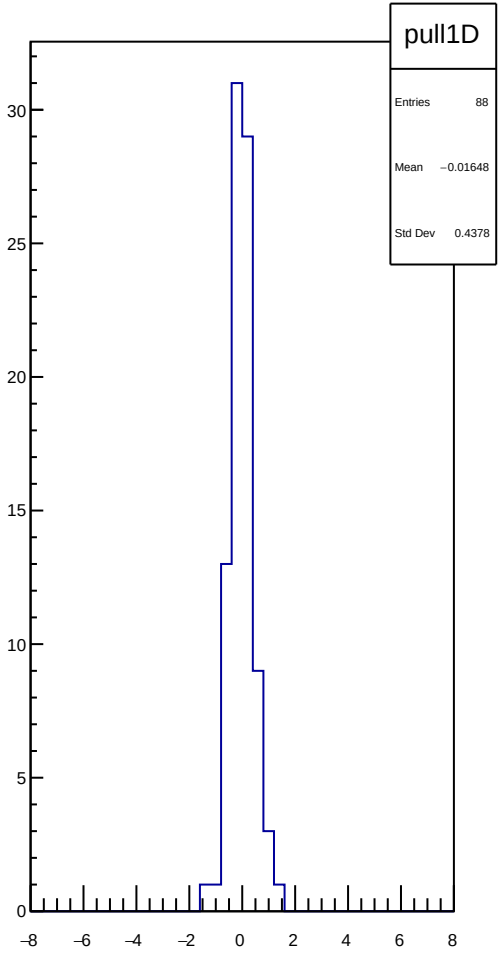

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.54 / 87
p0 35.17 ± 3.32
pull
Entries 88
Mean 221.2
Std Dev 0
pull1D
Entries 88
Mean 0.03702
Std Dev 0.4817

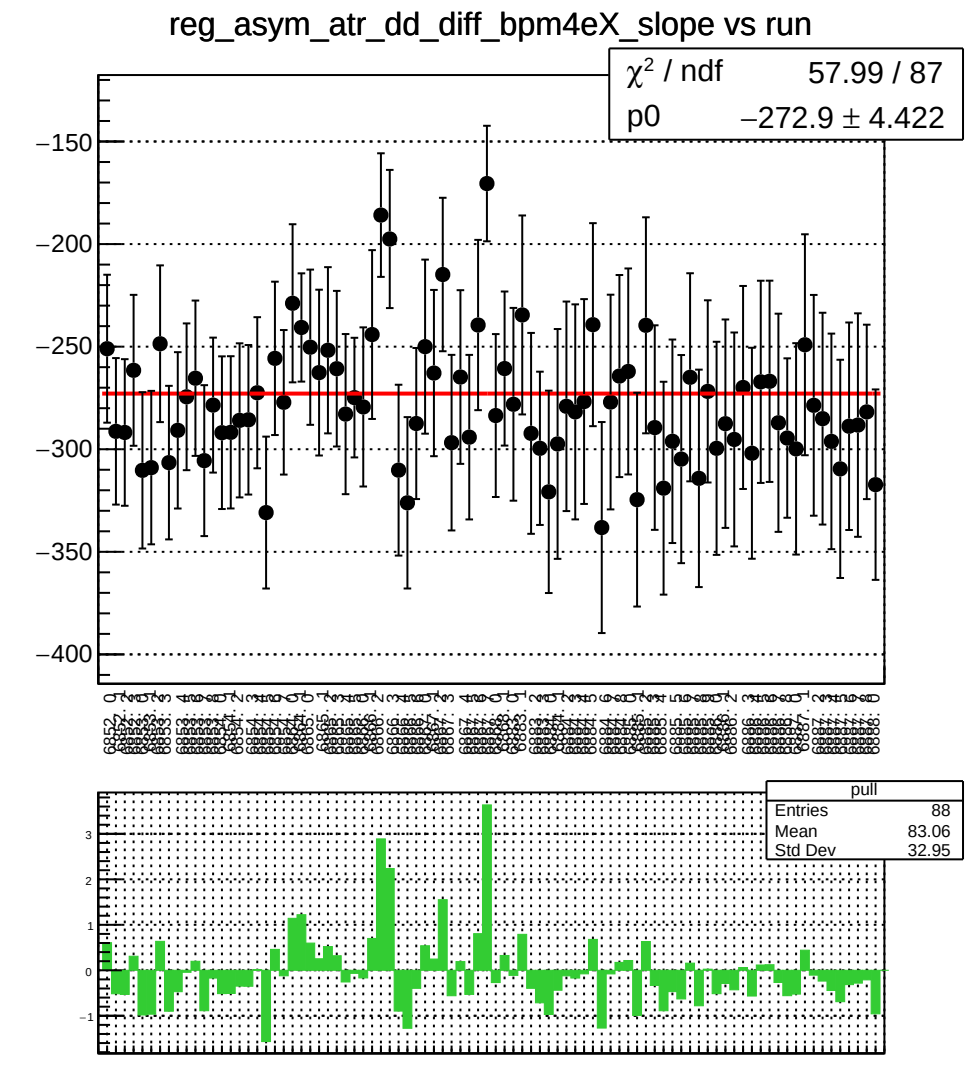

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 23.96 / 87
p0 −130.6 ± 0.1862
−126
−128
−130
−132
−134
pull
Entries 88
Mean −3250
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −0.0008072
Std Dev 0.5218
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

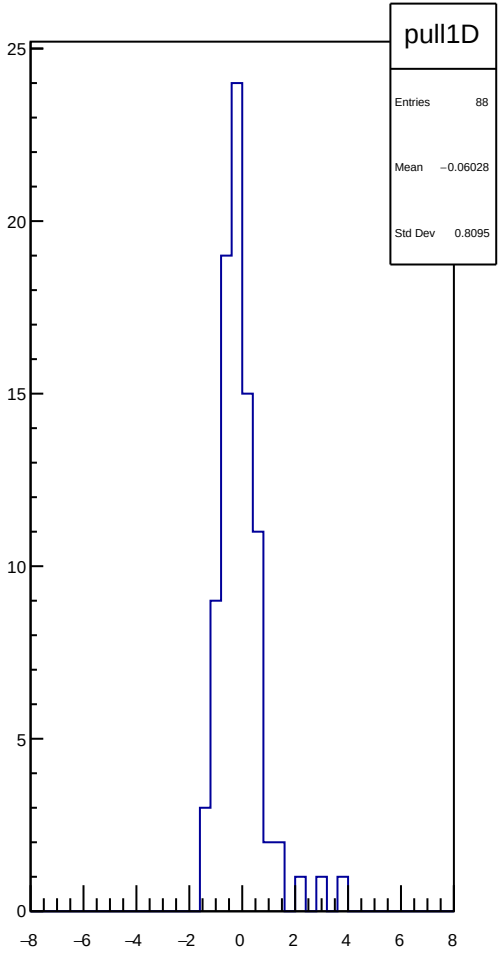

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ^2 / ndf 51.55 / 87
p0 205.7 ± 4.653
300
250
200
150
100
50
pull
Entries 88
Mean 65.83
Std Dev 50.75
1
0
−1
−2
−3

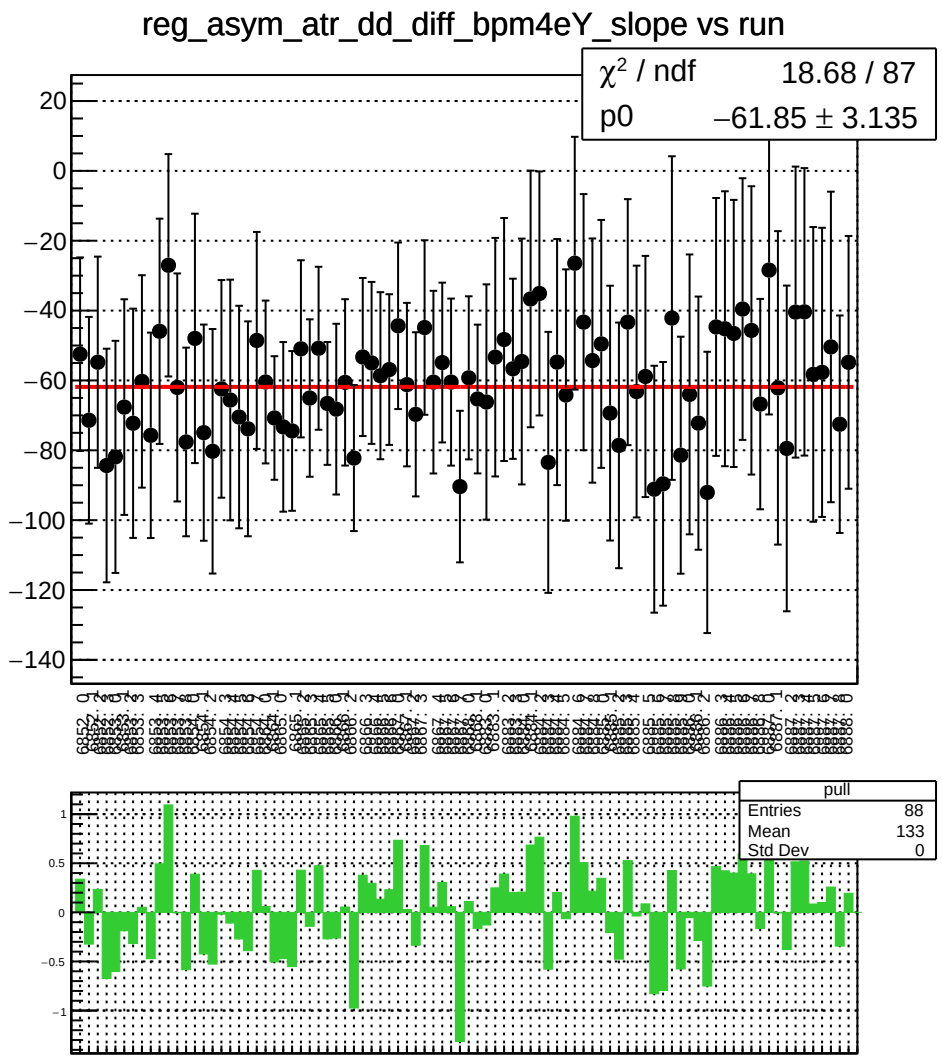

pull1D
Entries 88
Mean 0.04459
Std Dev 0.7641
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

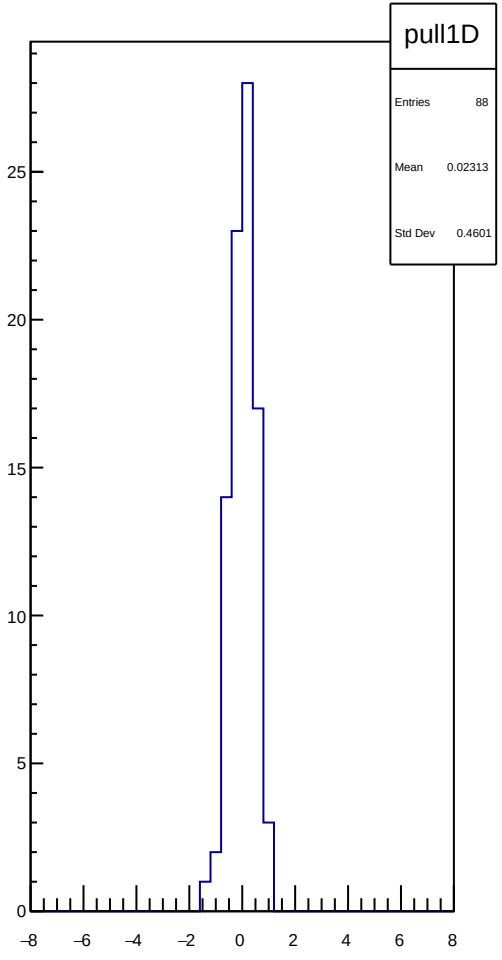

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.89 / 87
p0 −0.8207 ± 2.416
pull
Entries 88
Mean 13.39
Std Dev 19.31

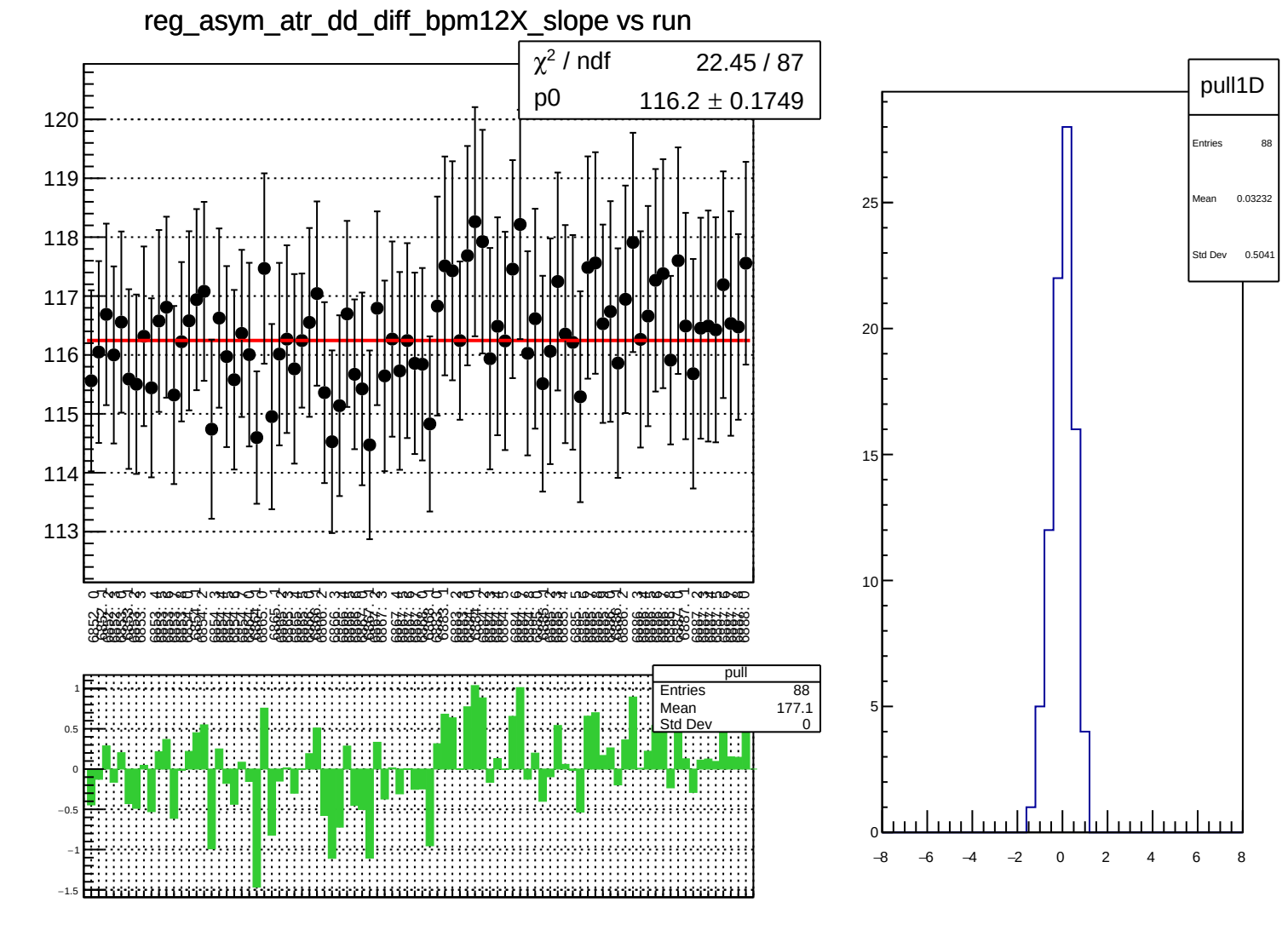

pull1D
Entries 88
Mean −0.01648
Std Dev 0.4378

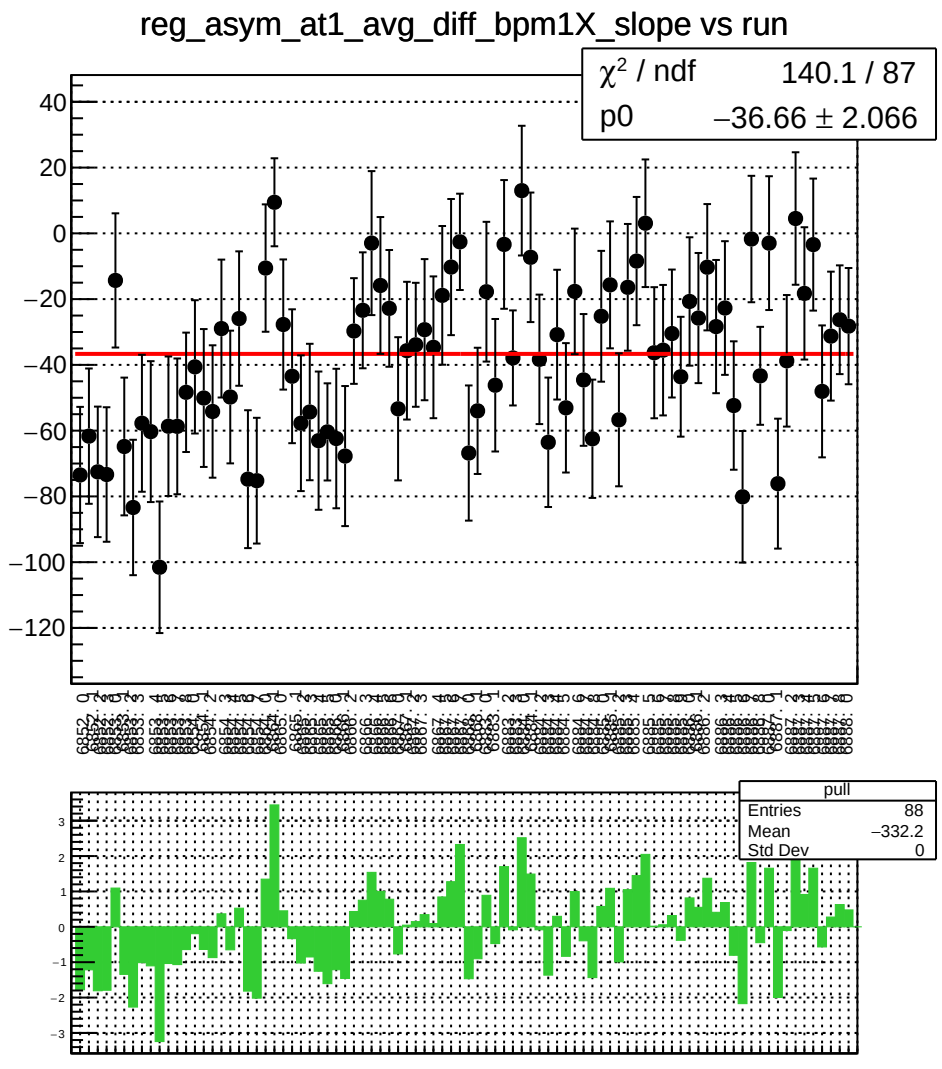

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.99 / 87
p0 −272.9 ± 4.422
−150
−200
−250
−300
−350
−400
pull
Entries 88
Mean 83.06
Std Dev 32.95
3
2
1
0
−1

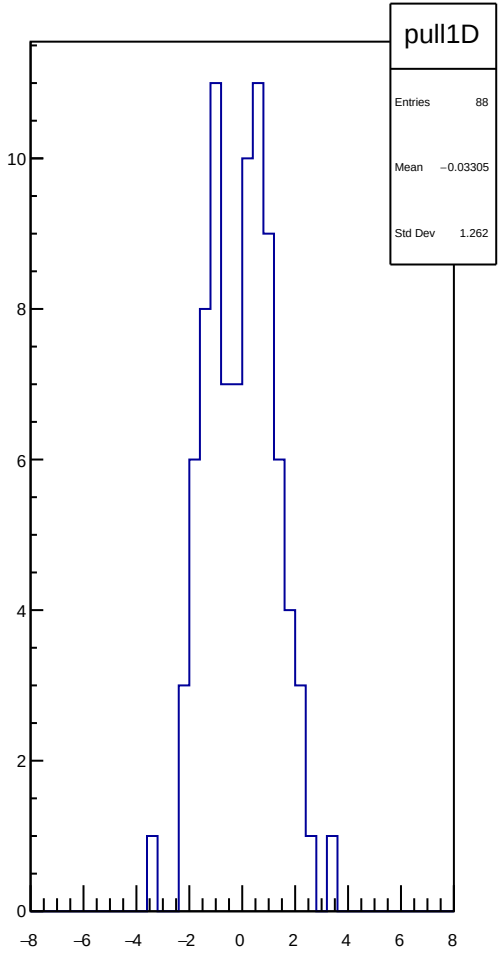

pull1D
Entries 88
Mean −0.06028
Std Dev 0.8095
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

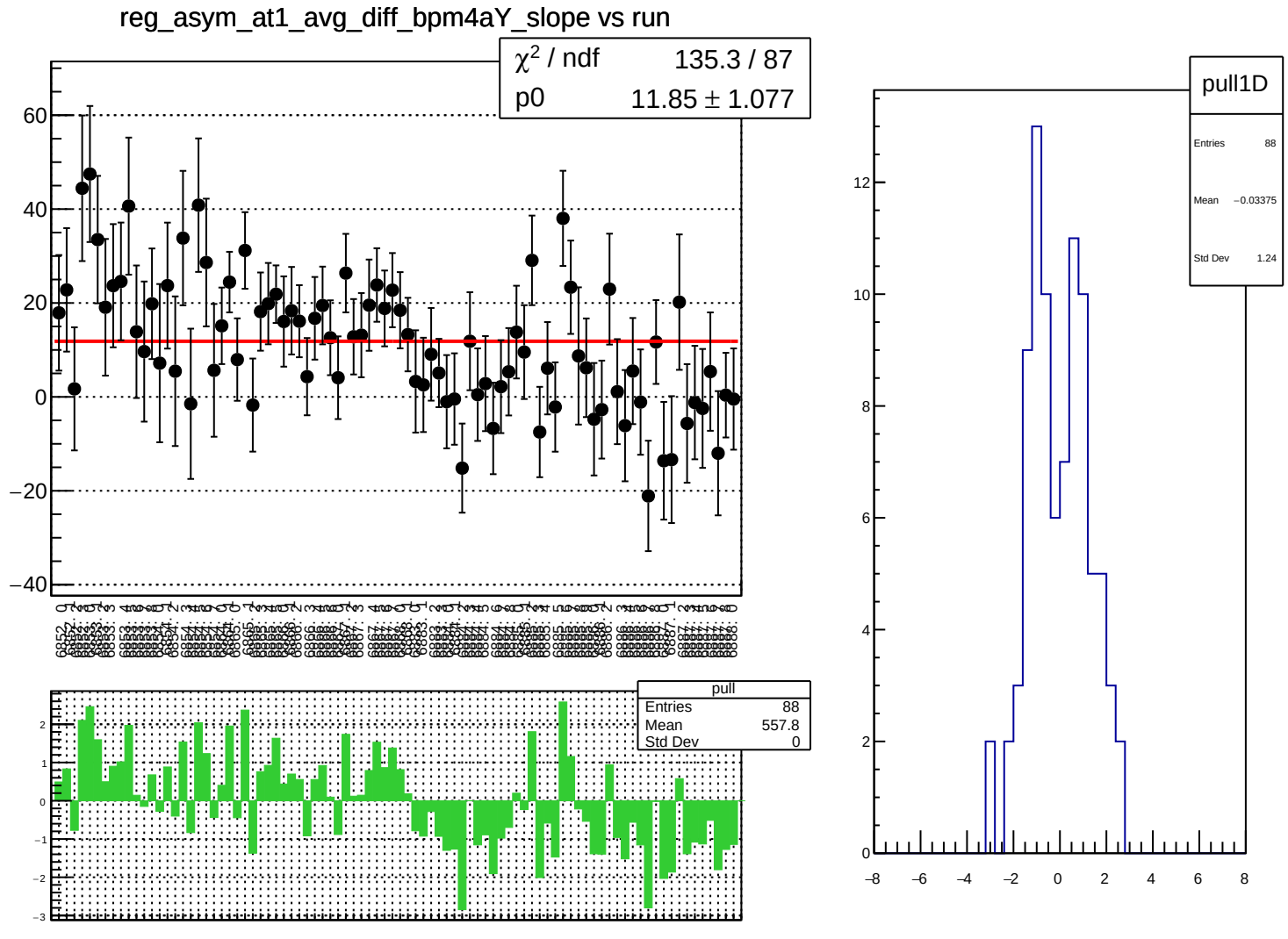

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.68 / 87
p0 −61.85 ± 3.135
pull
Entries 88
Mean 133
Std Dev 0

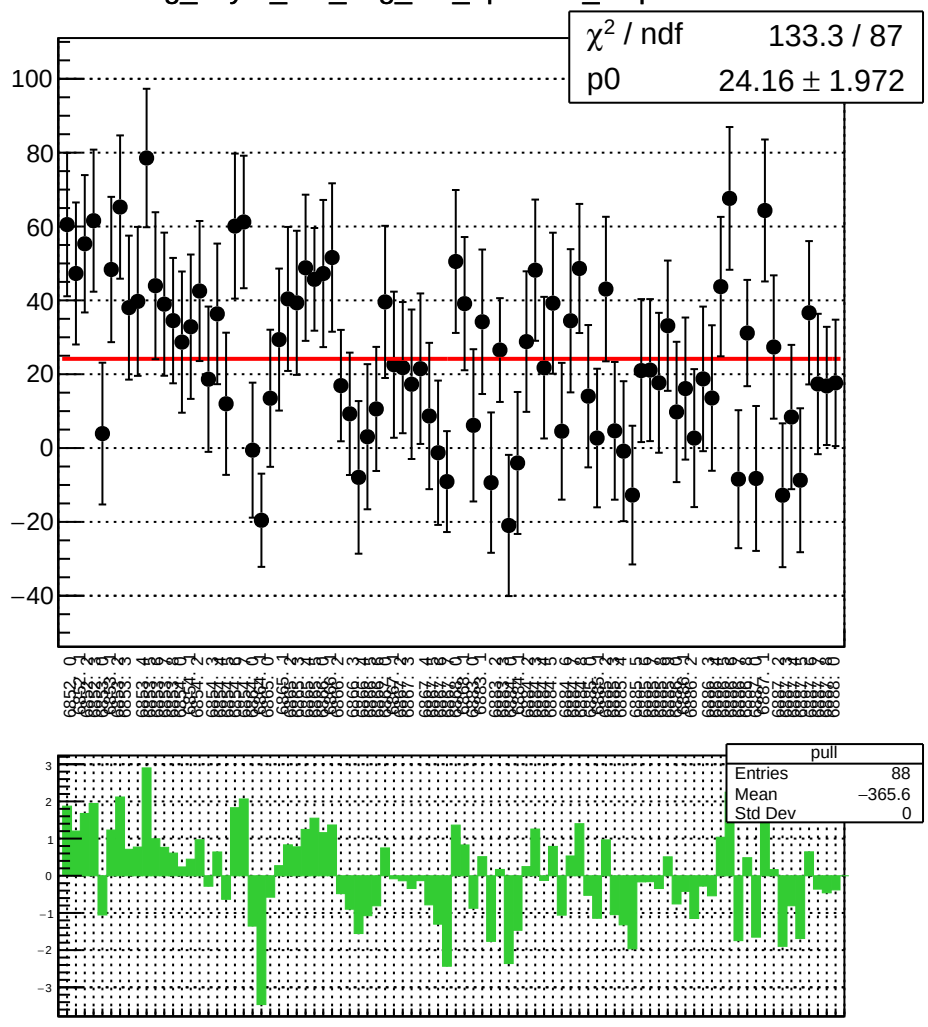

pull1D
Entries 88
Mean 0.02313
Std Dev 0.4601

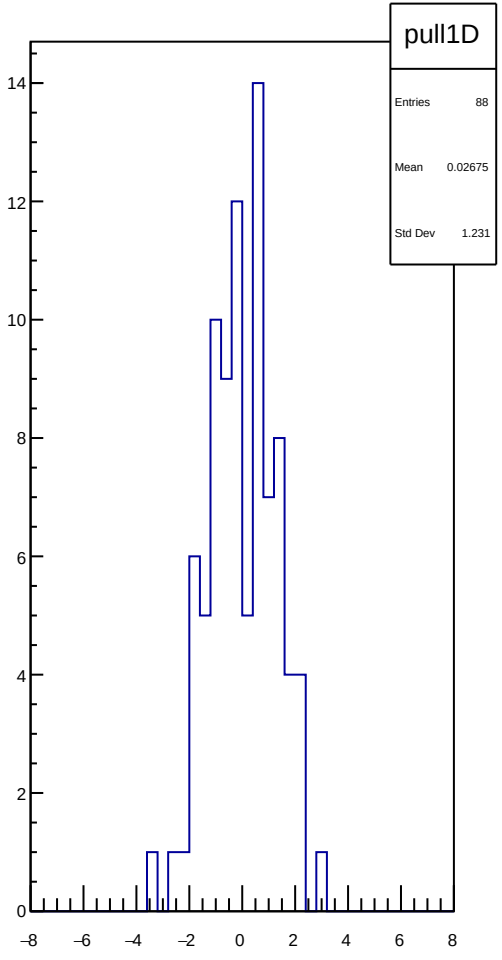

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 22.45 / 87
p0 116.2 ± 0.1749
pull
Entries 88
Mean 177.1
Std Dev 0
pull1D
Entries 88
Mean 0.03232
Std Dev 0.5041

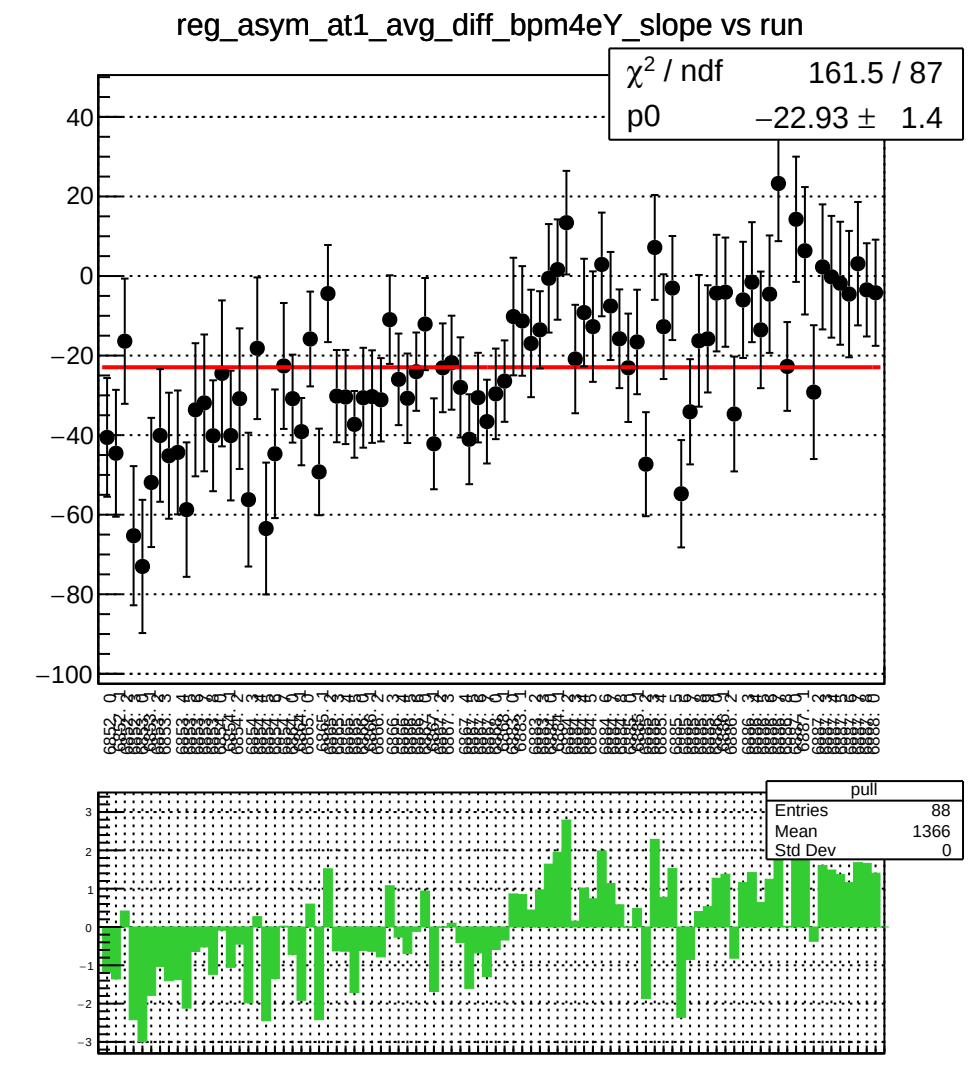

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 140.1 / 87
p0 −36.66 ± 2.066
pull
Entries 88
Mean −332.2
Std Dev 0

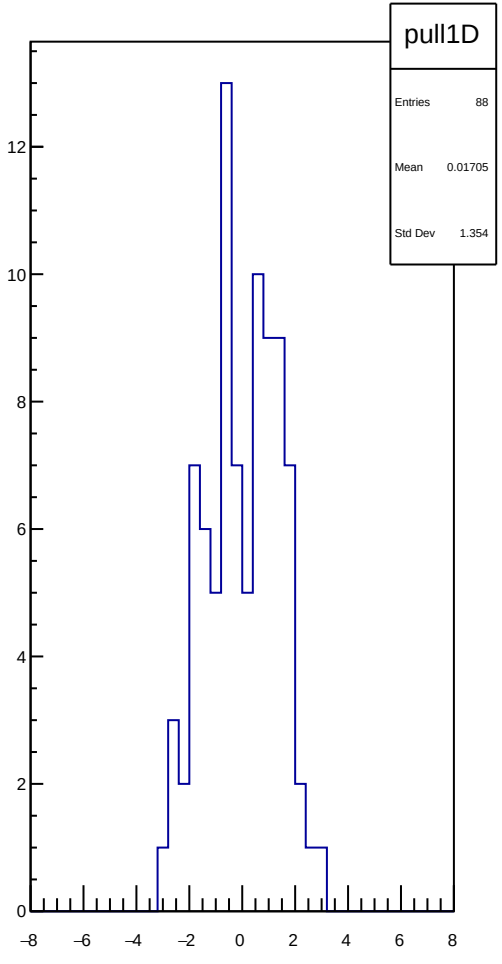

pull1D
Entries 88
Mean −0.03305
Std Dev 1.262

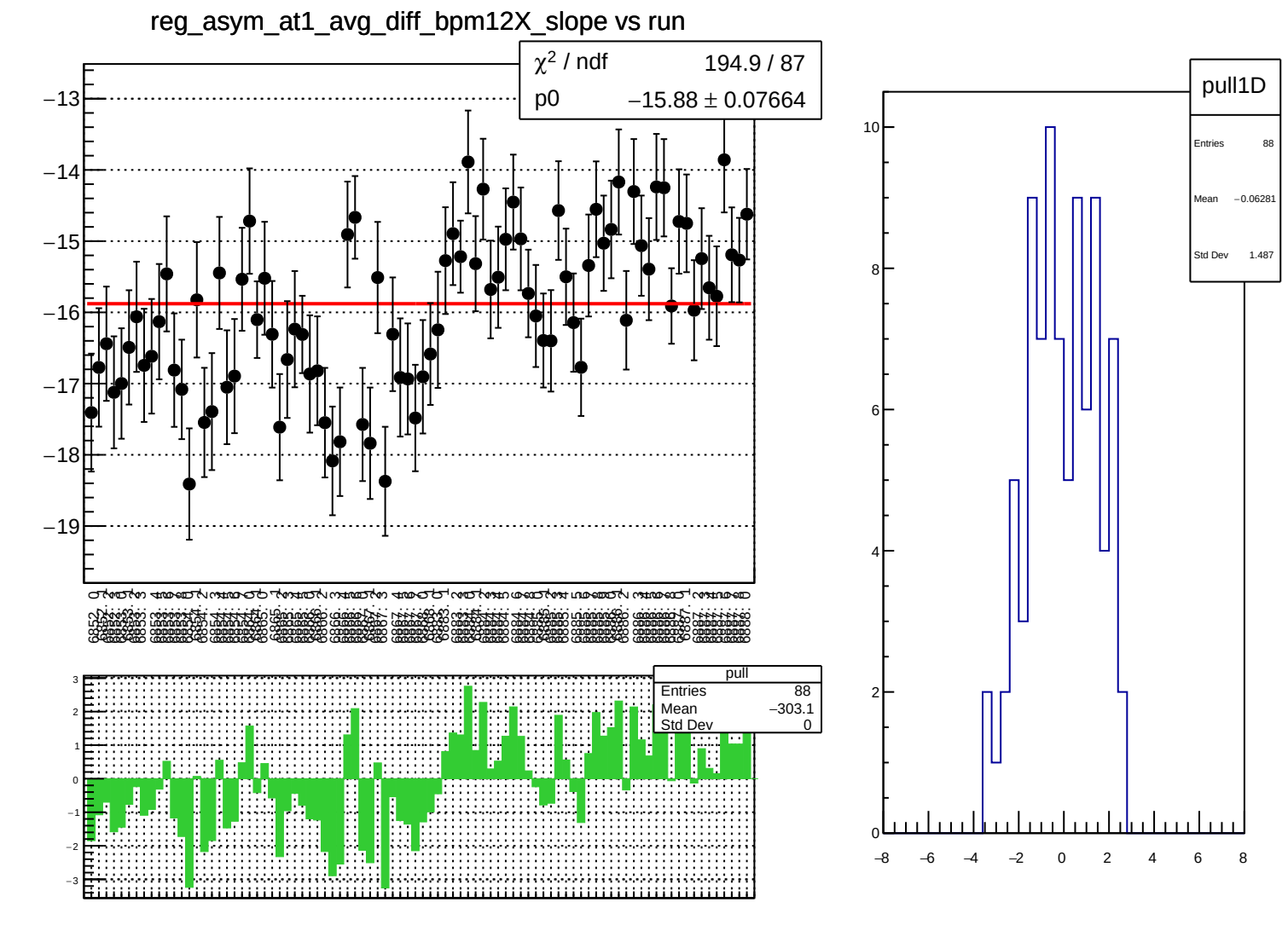

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 135.3 / 87
p0 11.85 ± 1.077
pull
Entries 88
Mean 557.8
Std Dev 0
pull1D
Entries 88
Mean −0.03375
Std Dev 1.24

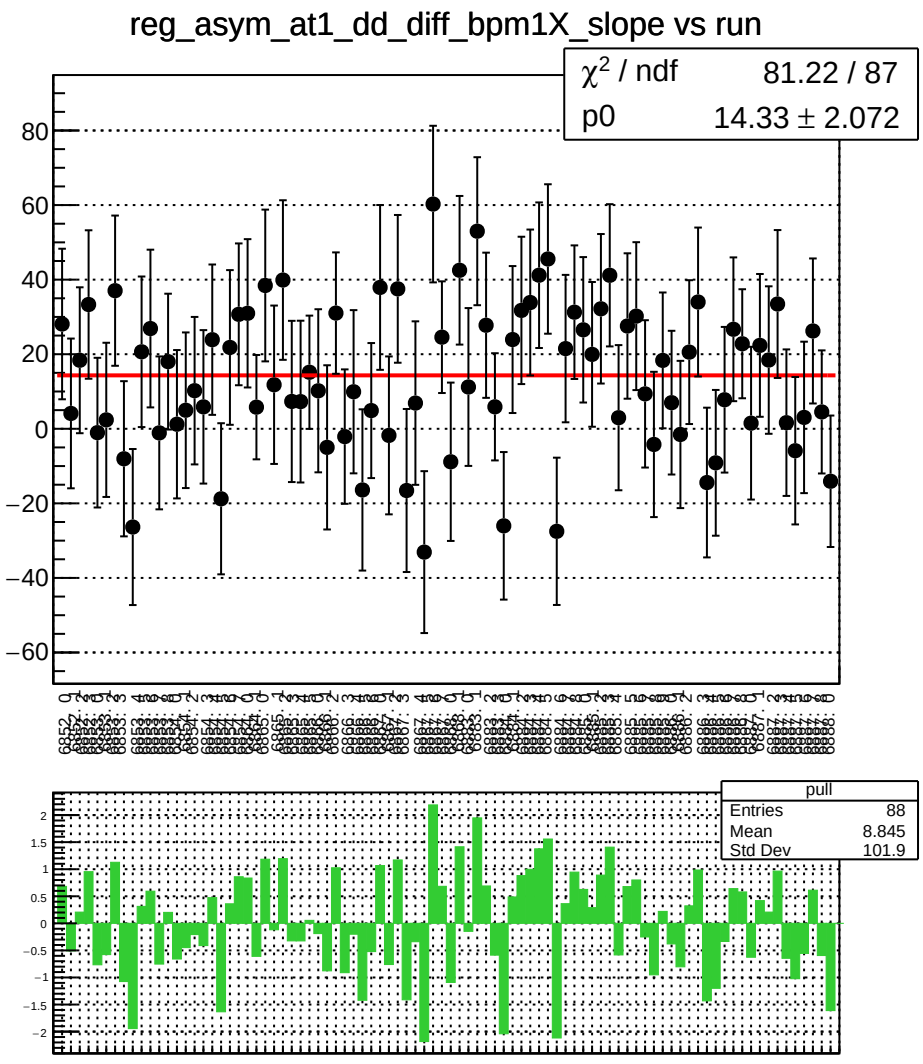

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 133.3 / 87
p0 24.16 ± 1.972
pull
Entries 88
Mean −365.6
Std Dev 0

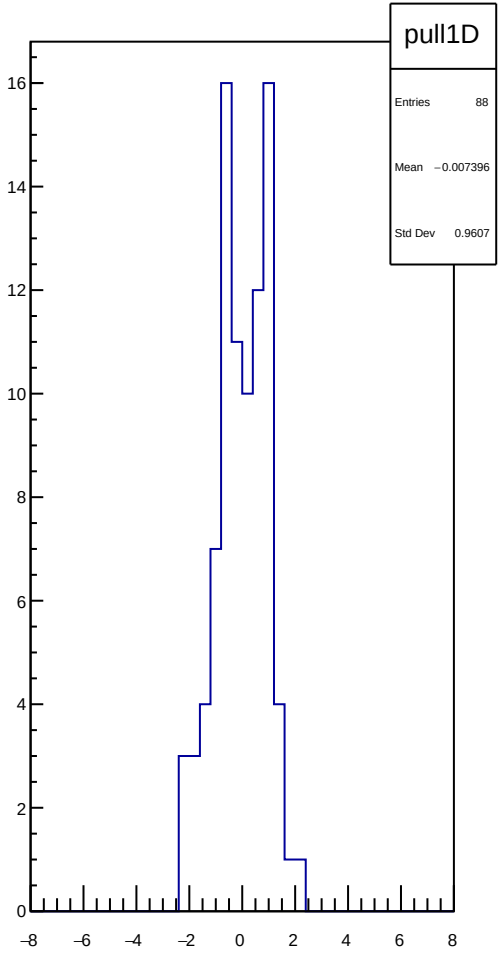

pull1D
Entries 88
Mean 0.02675
Std Dev 1.231

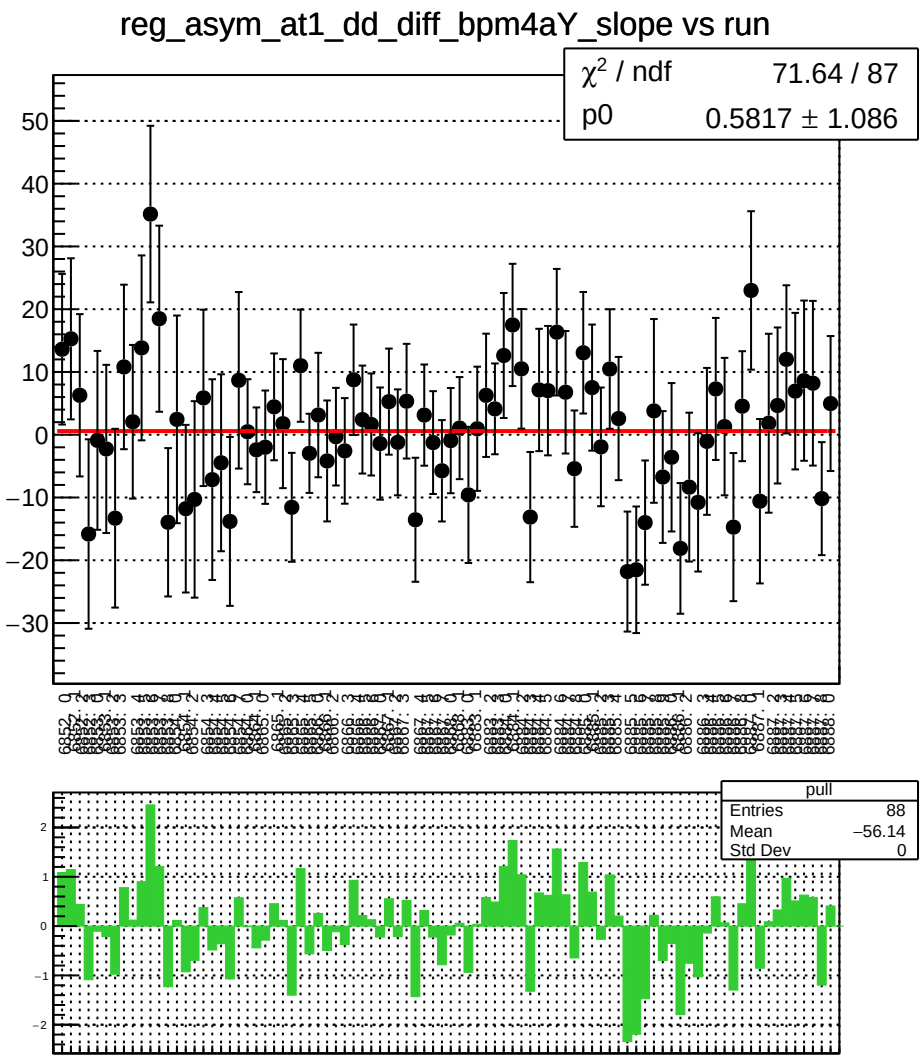

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 161.5 / 87
p0 −22.93 ± 1.4
pull
Entries 88
Mean 1366
Std Dev 0

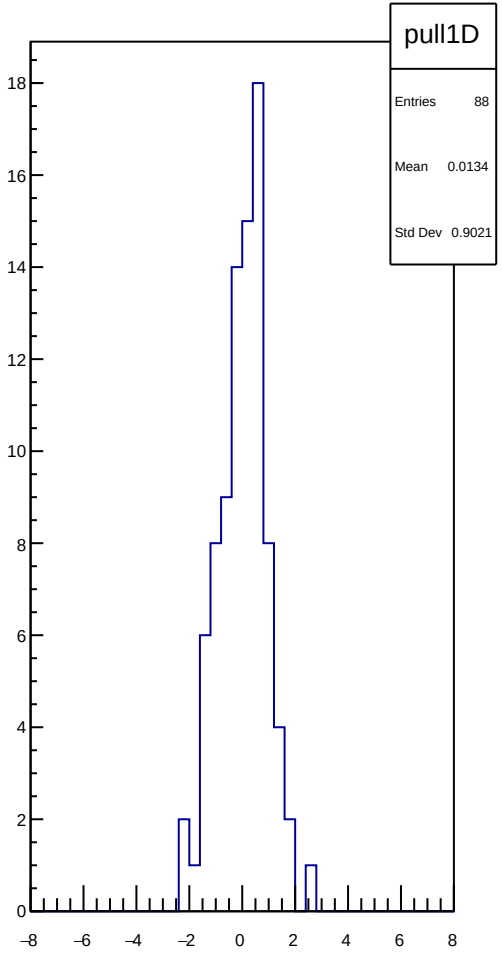

pull1D
Entries 88
Mean 0.01705
Std Dev 1.354

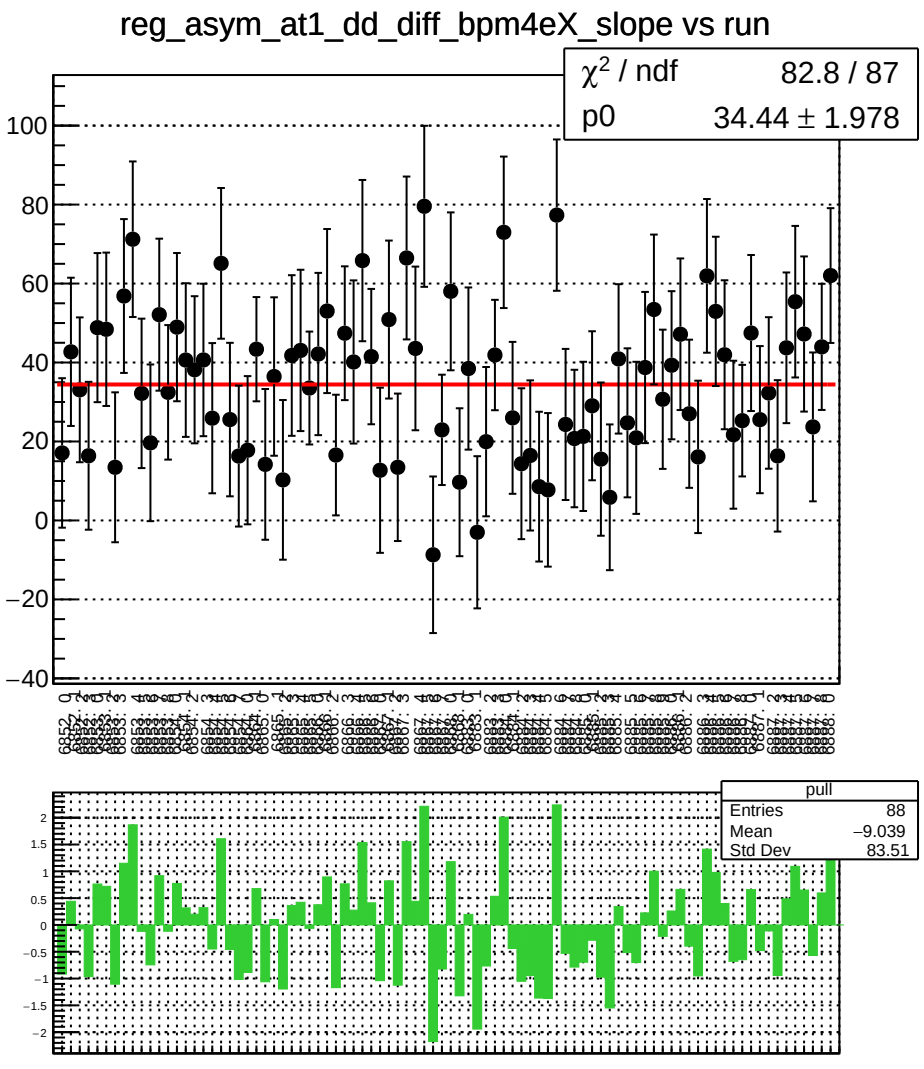

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 194.9 / 87
p0 −15.88 ± 0.07664
pull
Entries 88
Mean −303.1
Std Dev 0
pull1D
Entries 88
Mean −0.06281
Std Dev 1.487

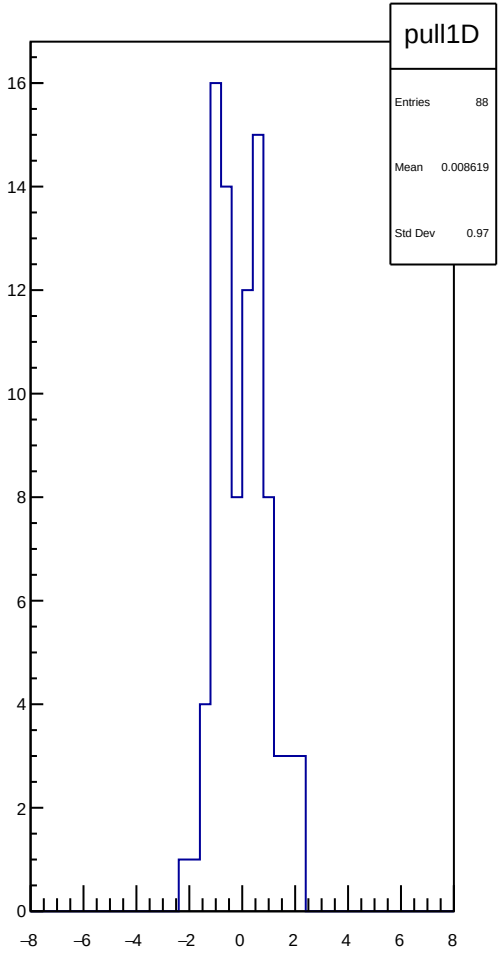

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 81.22 / 87
p0 14.33 ± 2.072
pull
Entries 88
Mean 8.845
Std Dev 101.9

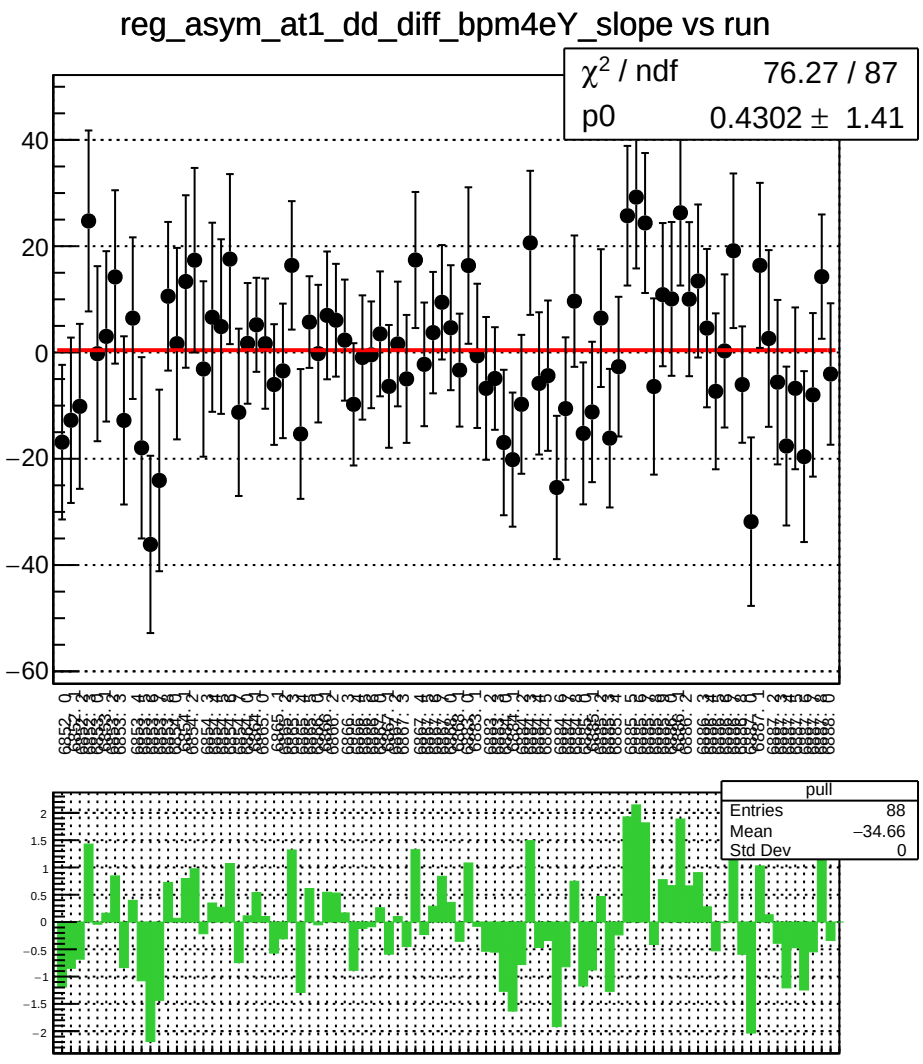

pull1D
Entries 88
Mean −0.007396
Std Dev 0.9607

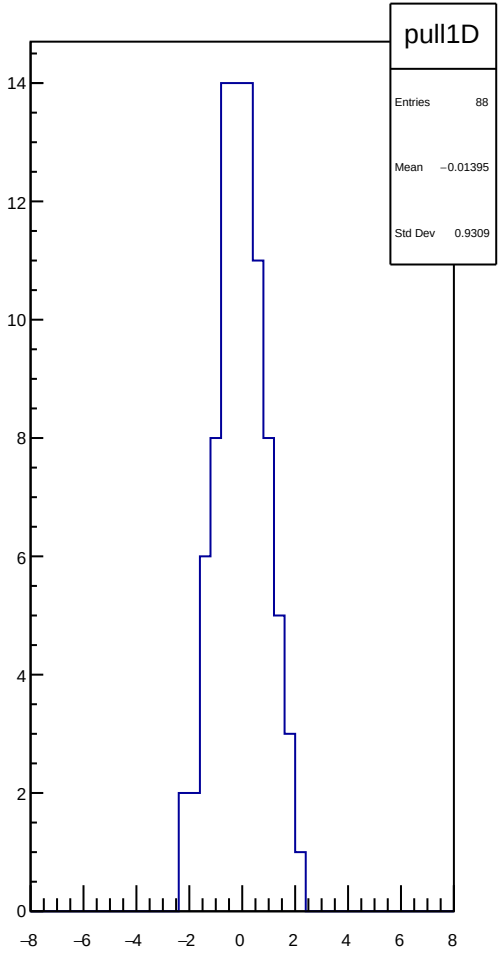

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.64 / 87
p0 0.5817 ± 1.086
pull
Entries 88
Mean −56.14
Std Dev 0

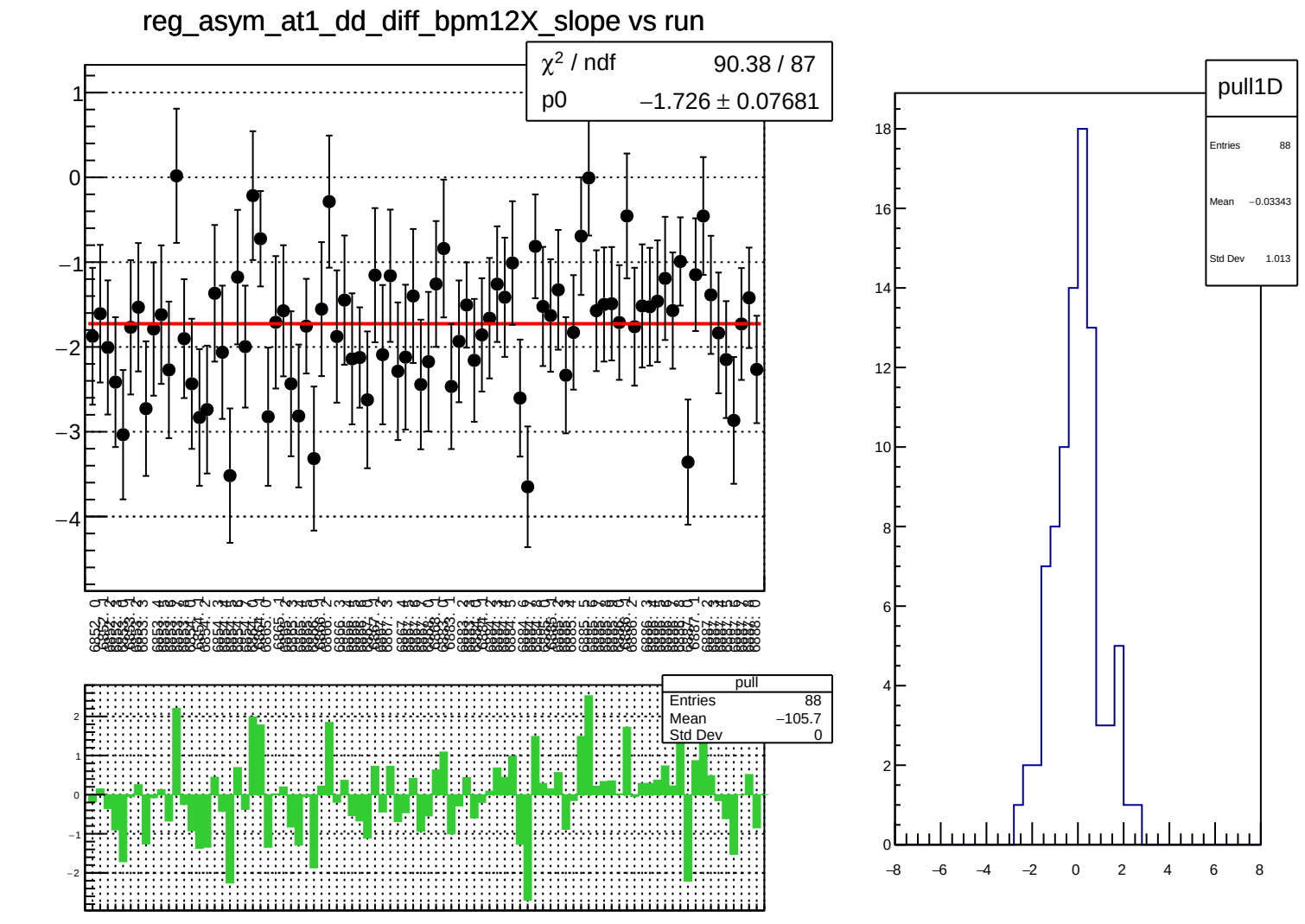

pull1D
Entries 88
Mean 0.0134
Std Dev 0.9021

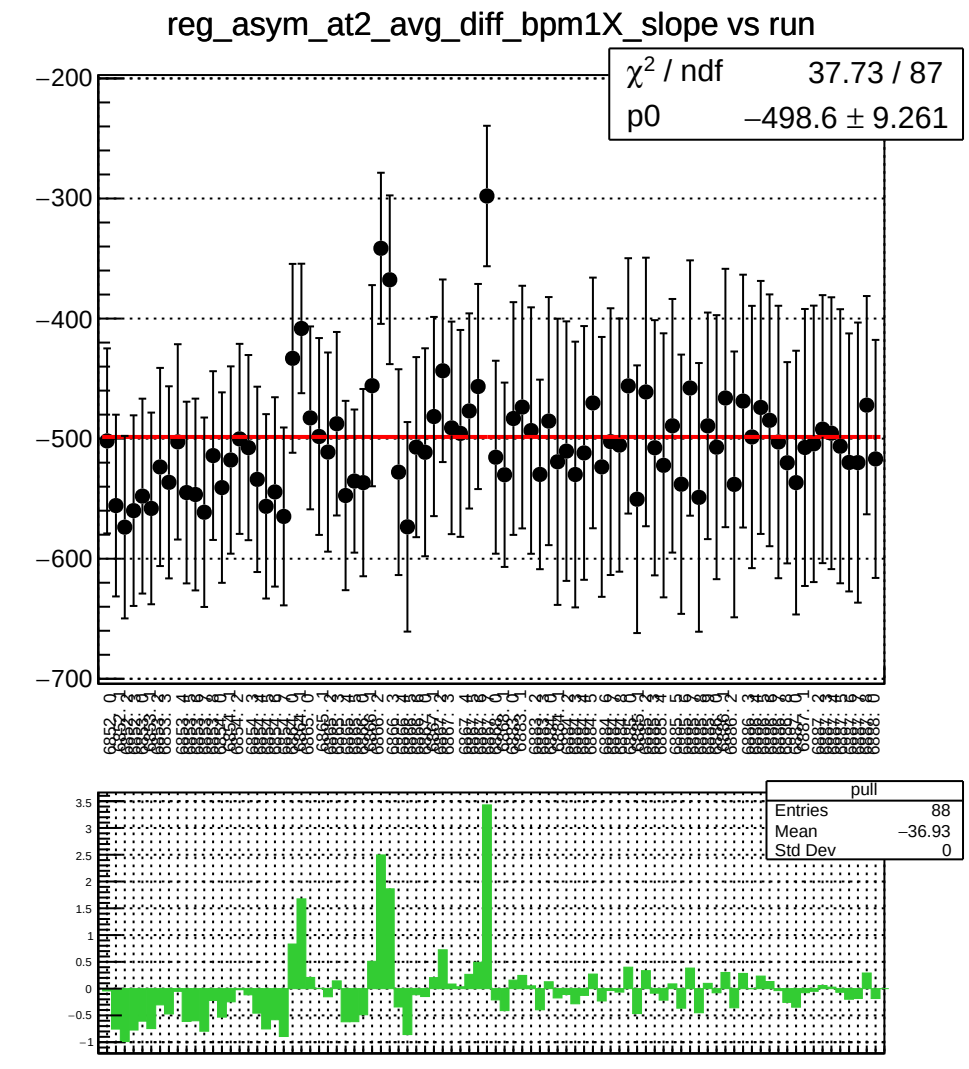

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 82.8 / 87
p0 34.44 ± 1.978
pull
Entries 88
Mean −9.039
Std Dev 83.51

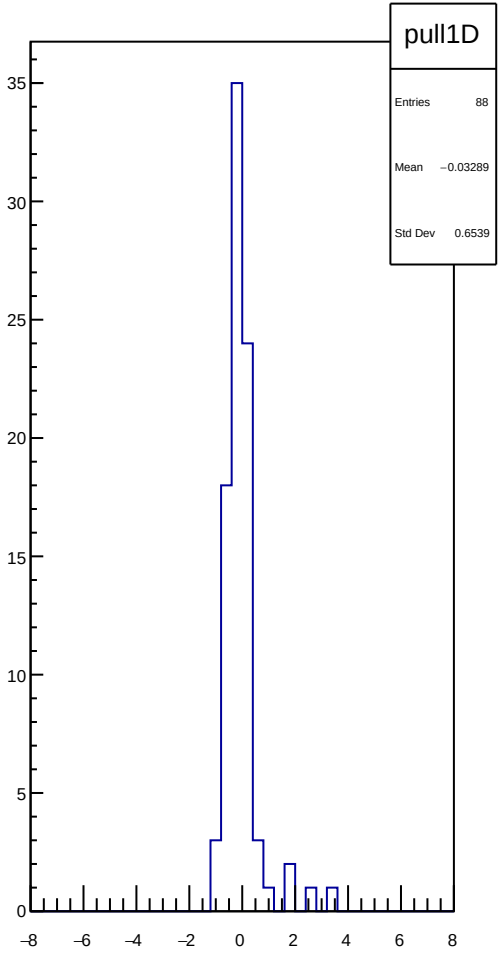

pull1D
Entries 88
Mean 0.008619
Std Dev 0.97

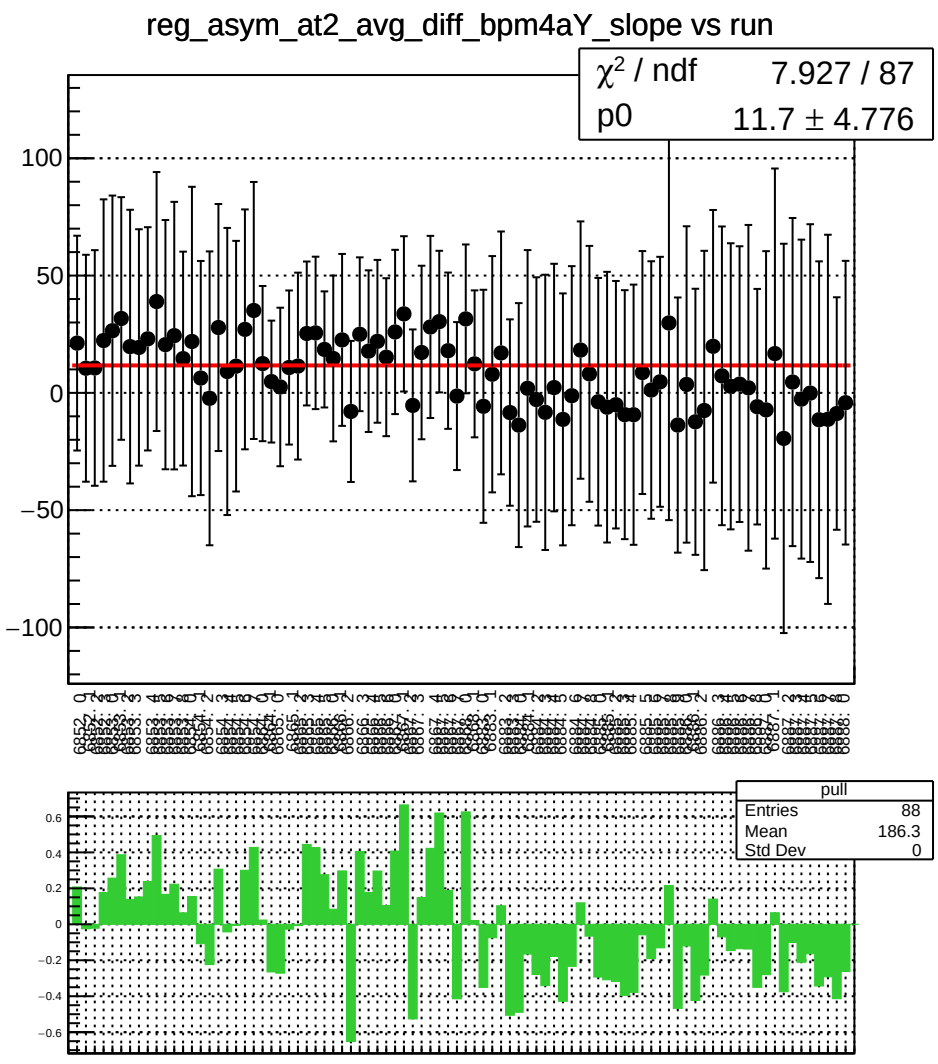

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.27 / 87
p0 0.4302 ± 1.41
pull
Entries 88
Mean −34.66
Std Dev 0

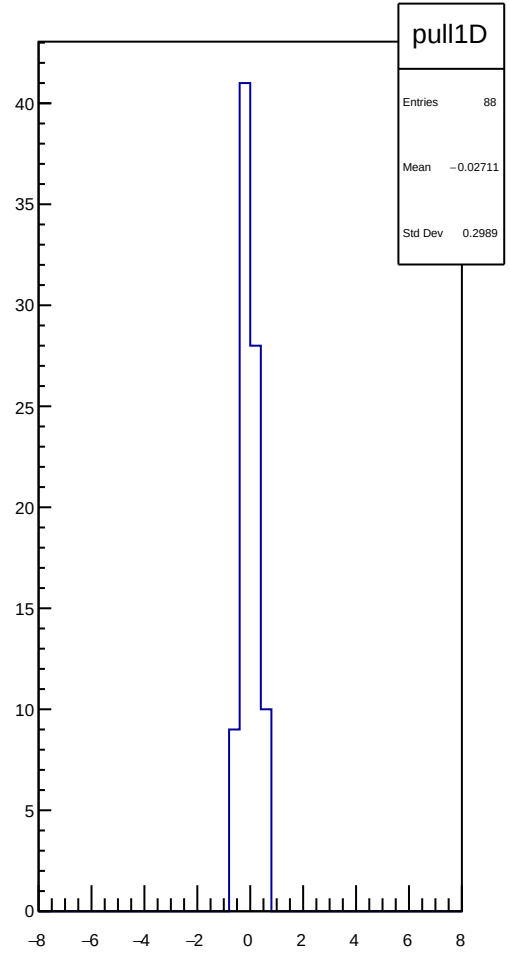

pull1D
Entries 88
Mean −0.01395
Std Dev 0.9309

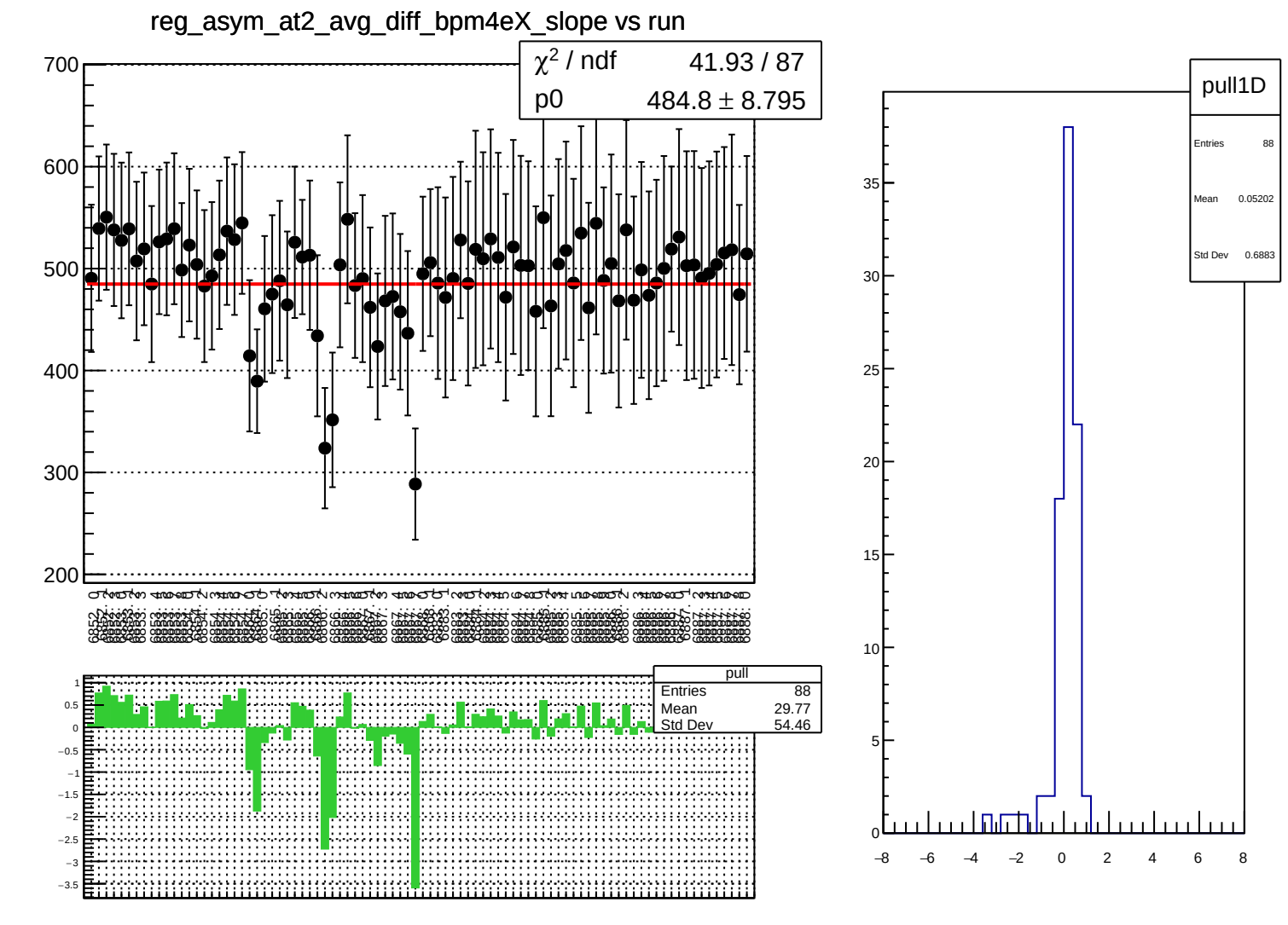

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 90.38 / 87
p0 −1.726 ± 0.07681
pull
Entries 88
Mean −105.7
Std Dev 0
pull1D
Entries 88
Mean −0.03343
Std Dev 1.013

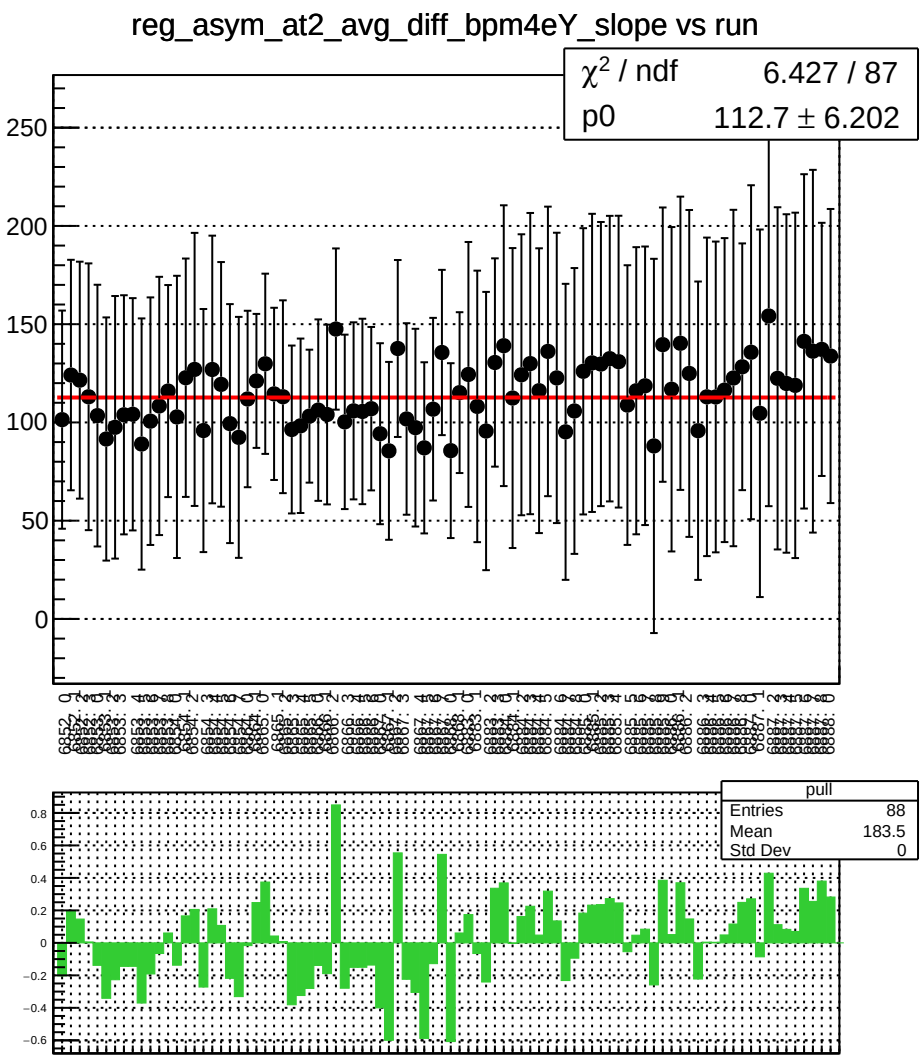

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 37.73 / 87
p0 −498.6 ± 9.261
pull
Entries 88
Mean −36.93
Std Dev 0

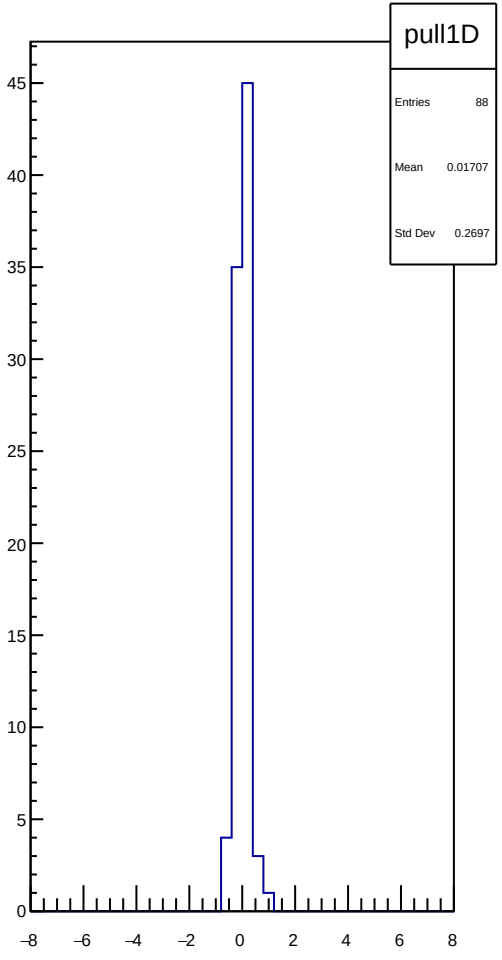

pull1D
Entries 88
Mean −0.03289
Std Dev 0.6539

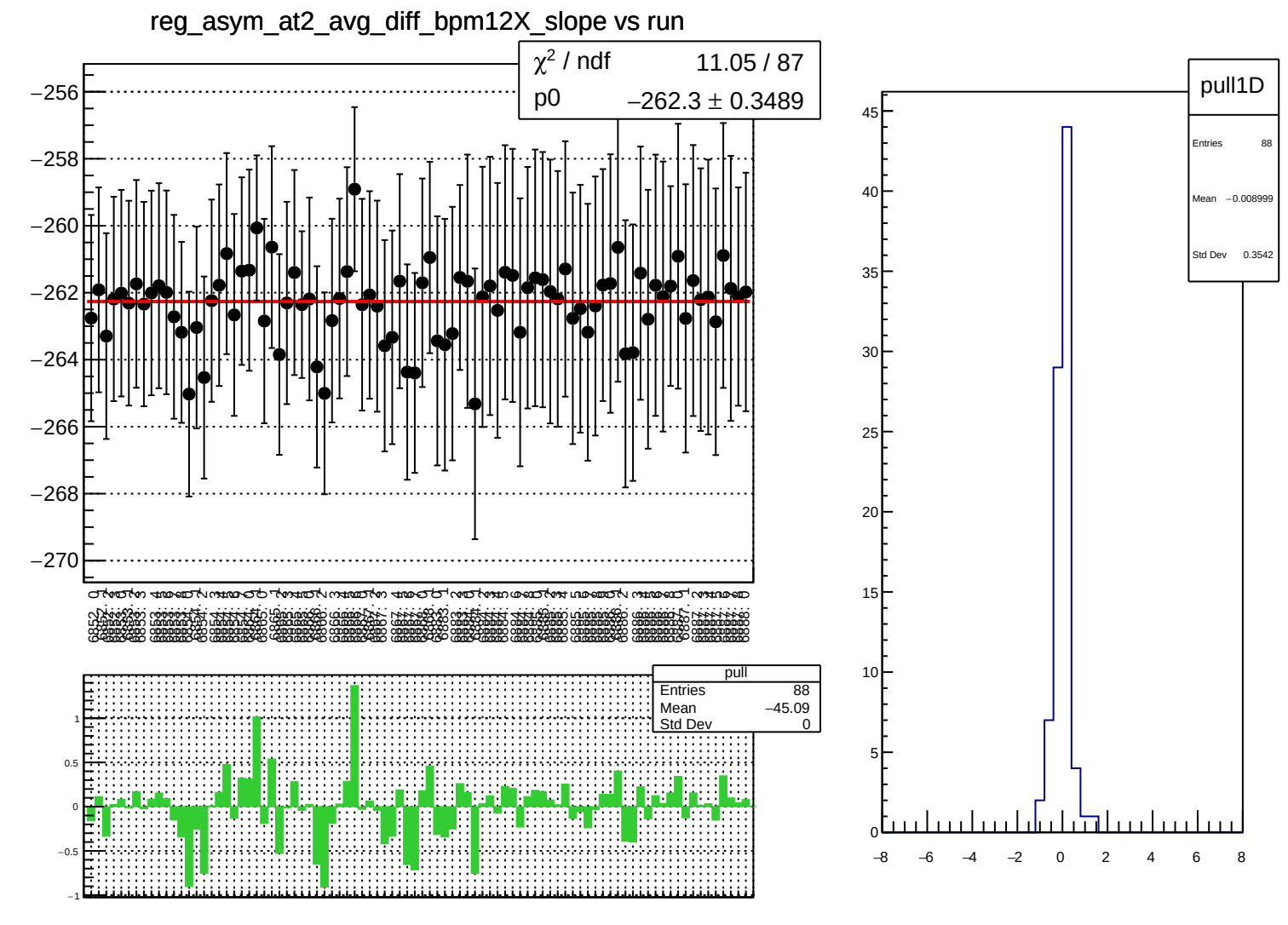

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.927 / 87
p0 11.7 ± 4.776
100
50
0
−50
−100
pull
Entries 88
Mean 186.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

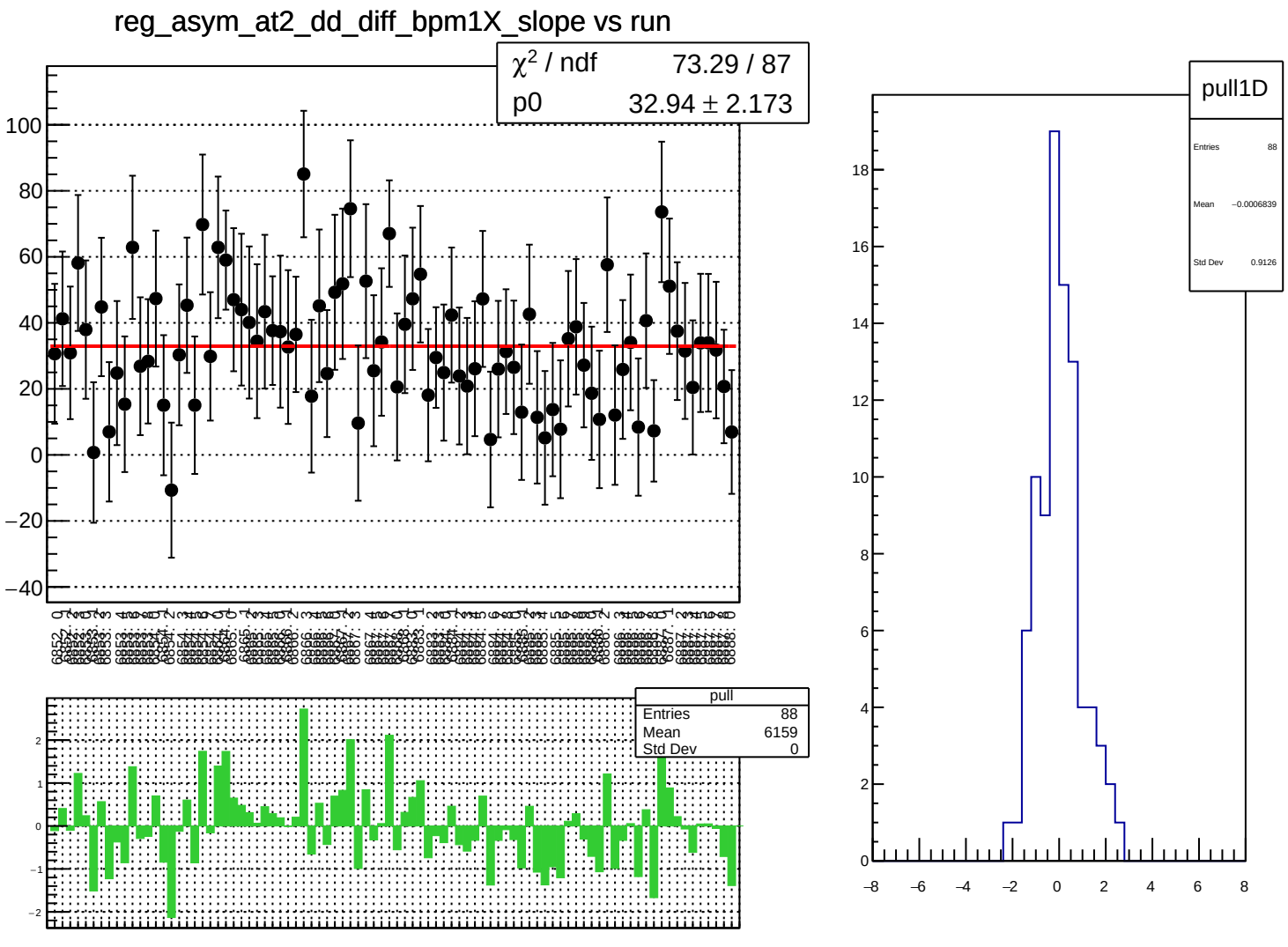

pull1D
Entries 88
Mean −0.02711
Std Dev 0.2989
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

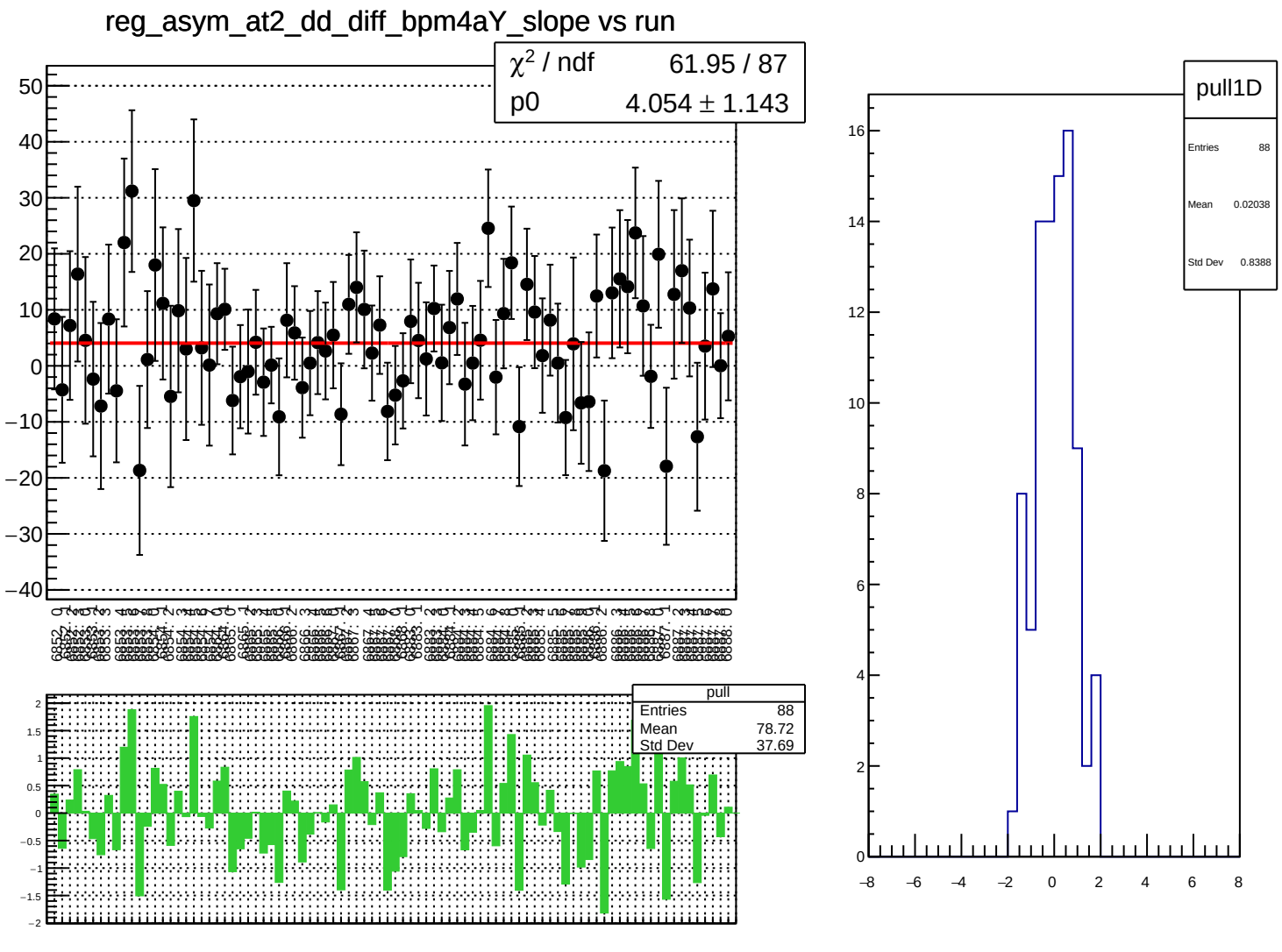

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 41.93 / 87
p0 484.8 ± 8.795
700
600
500
400
300
200
pull
Entries 88
Mean 29.77
Std Dev 54.46
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 88
Mean 0.05202
Std Dev 0.6883
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

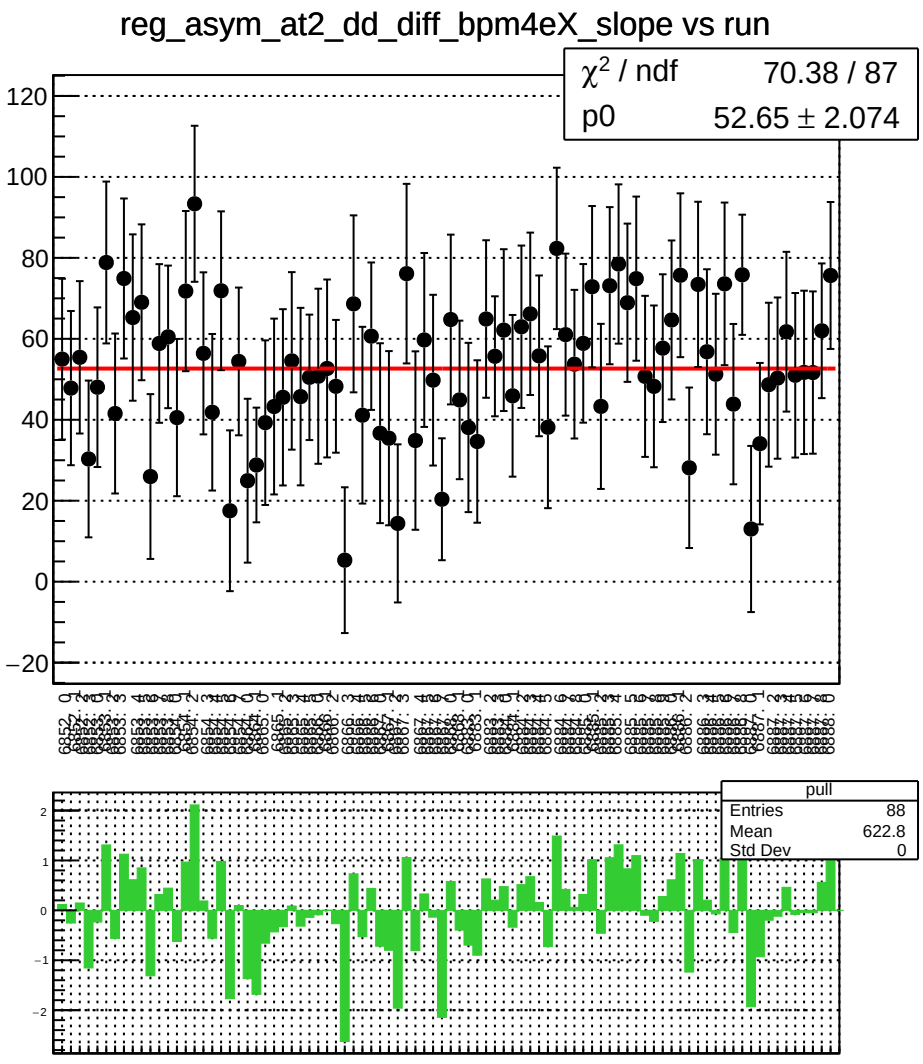

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.427 / 87
p0 112.7 ± 6.202
250
200
150
100
50
0
pull
Entries 88
Mean 183.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

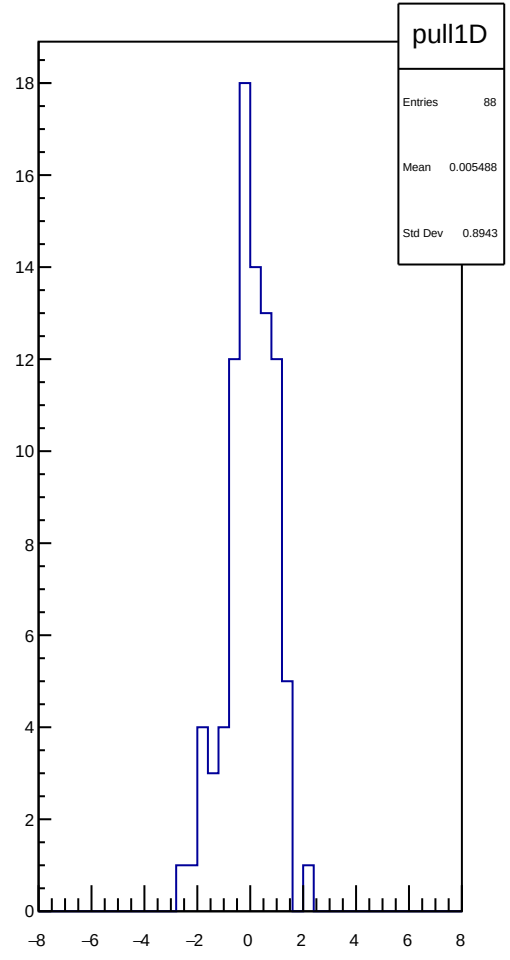

pull1D
Entries 88
Mean 0.01707
Std Dev 0.2697
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

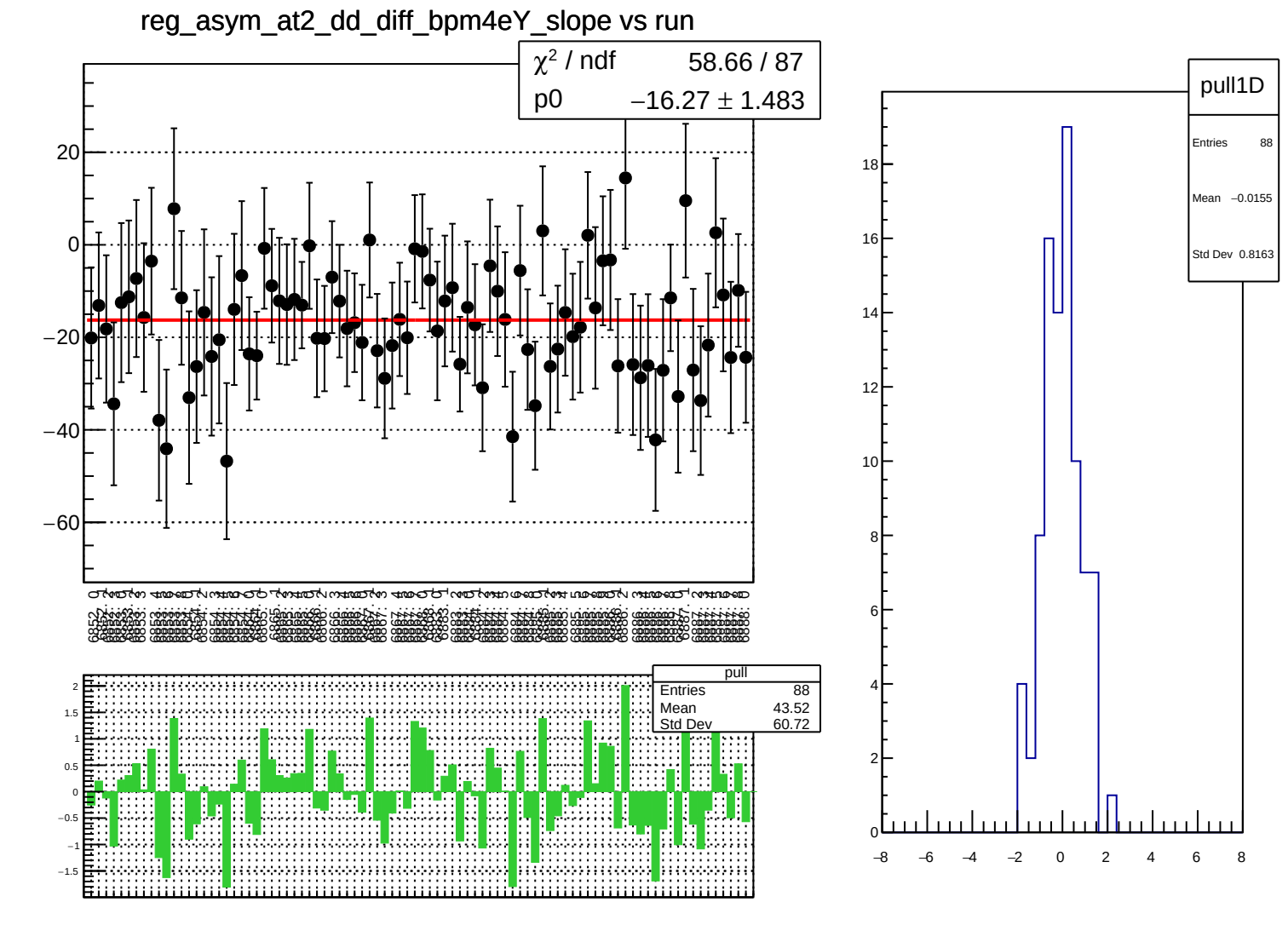

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 11.05 / 87
p0 −262.3 ± 0.3489
−256
−258
−260
−262
−264
−266
−268
−270
pull
Entries 88
Mean −45.09
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.008999
Std Dev 0.3542
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

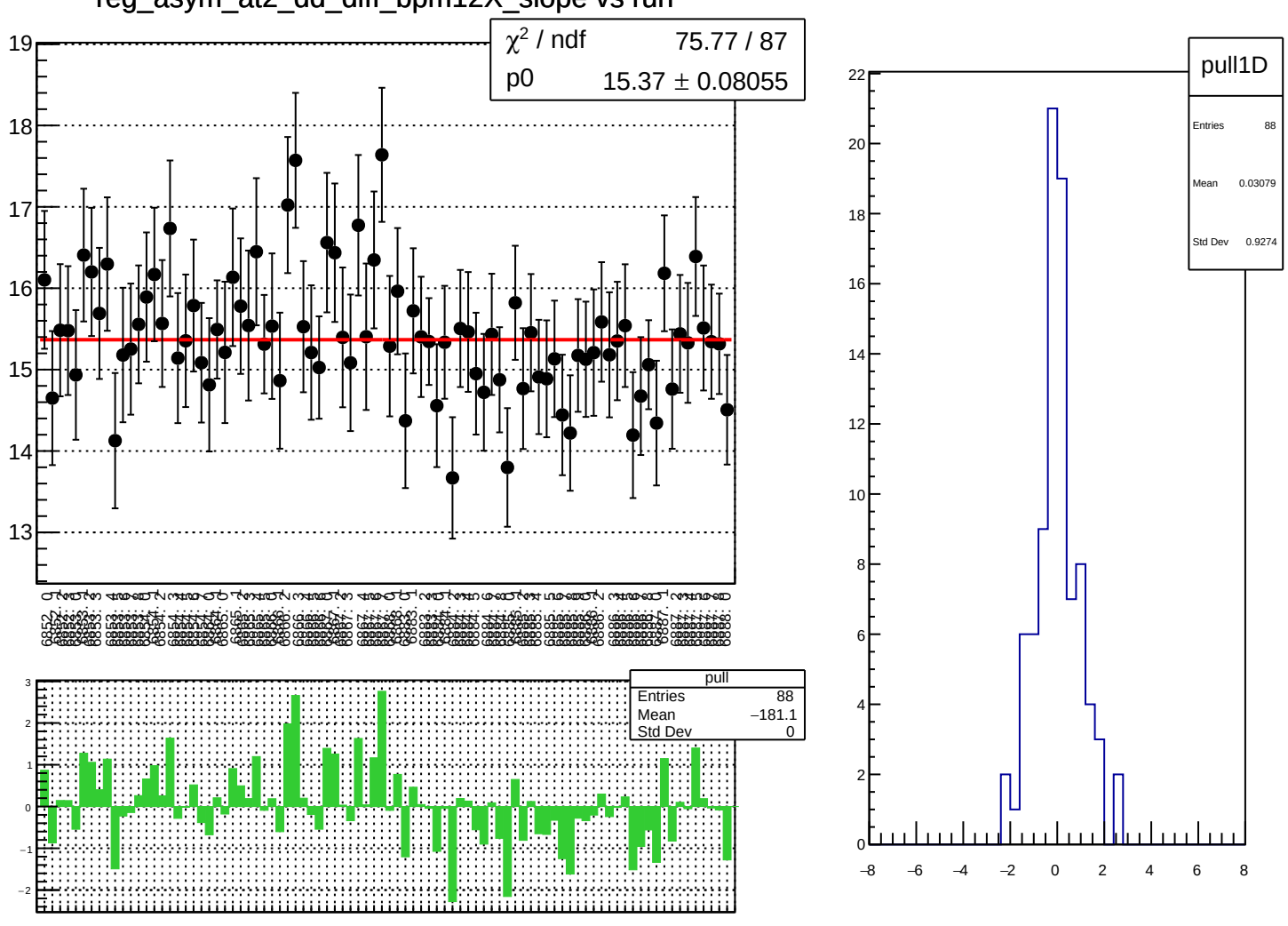

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 73.29 / 87
p0 32.94 ± 2.173
pull
Entries 88
Mean 6159
Std Dev 0
pull1D
Entries 88
Mean −0.0006839
Std Dev 0.9126

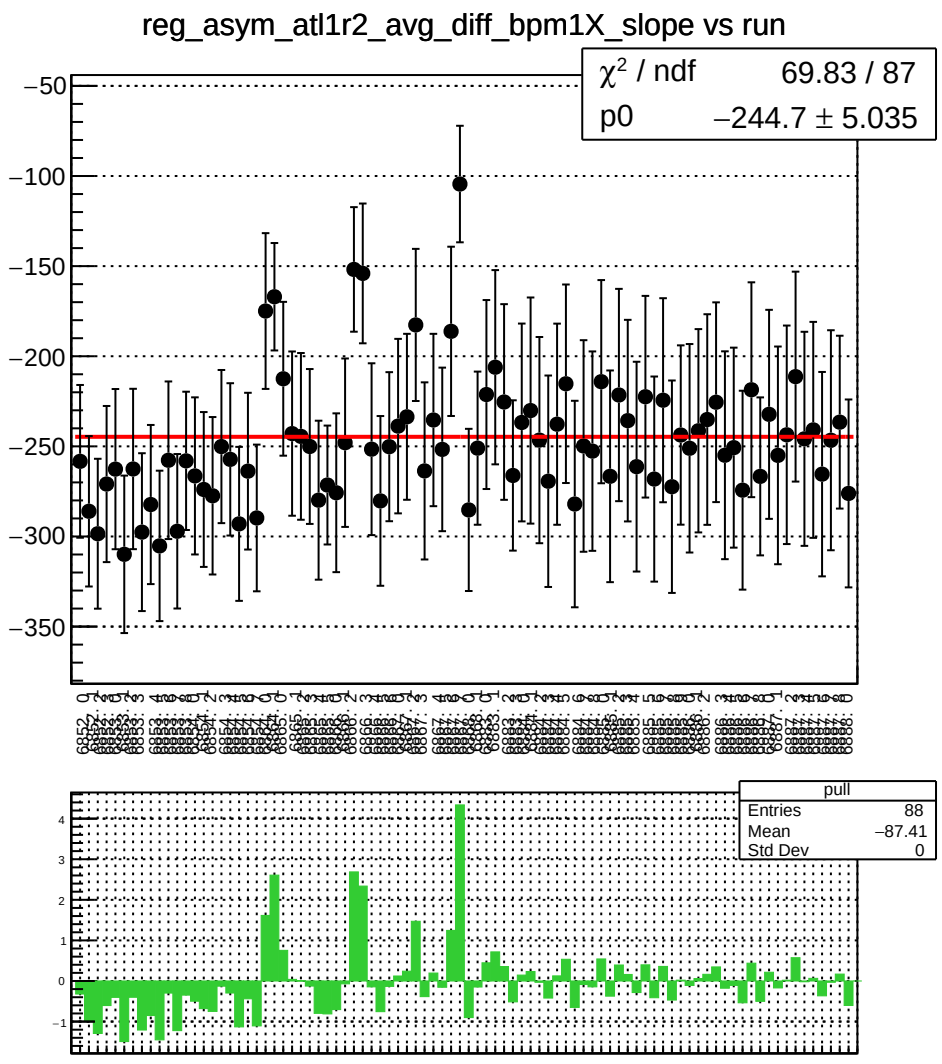

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.95 / 87
p0 4.054 ± 1.143
pull
Entries 88
Mean 78.72
Std Dev 37.69
pull1D
Entries 88
Mean 0.02038
Std Dev 0.8388

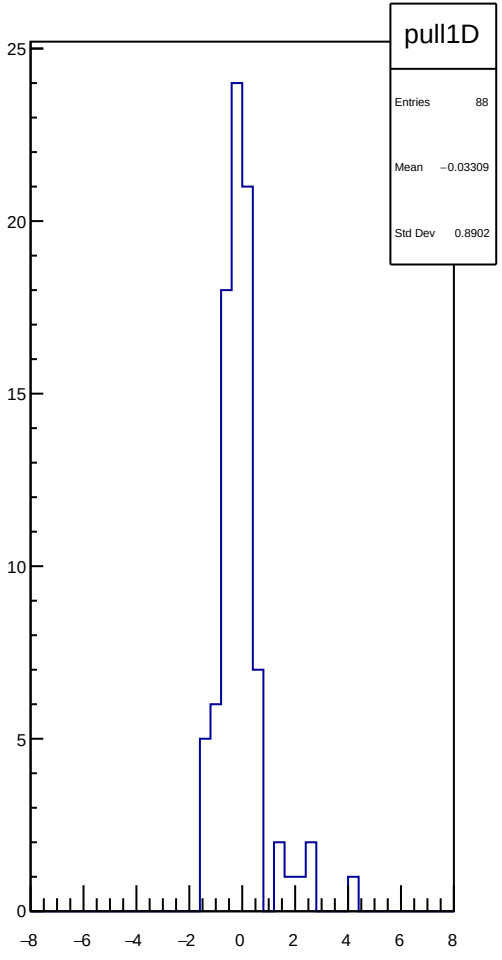

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 70.38 / 87
p0 52.65 ± 2.074
pull
Entries 88
Mean 622.8
Std Dev 0

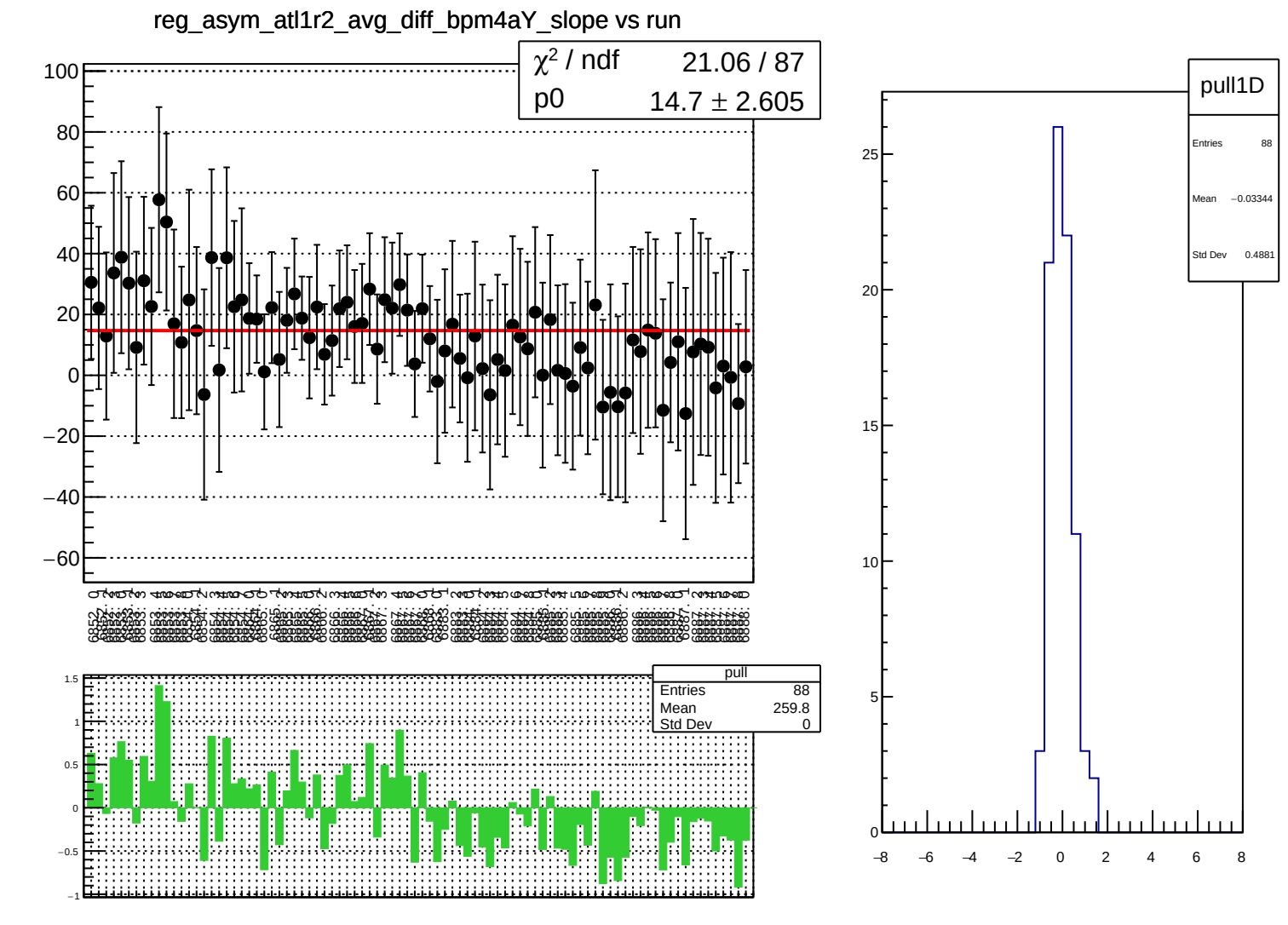

pull1D
Entries 88
Mean 0.005488
Std Dev 0.8943

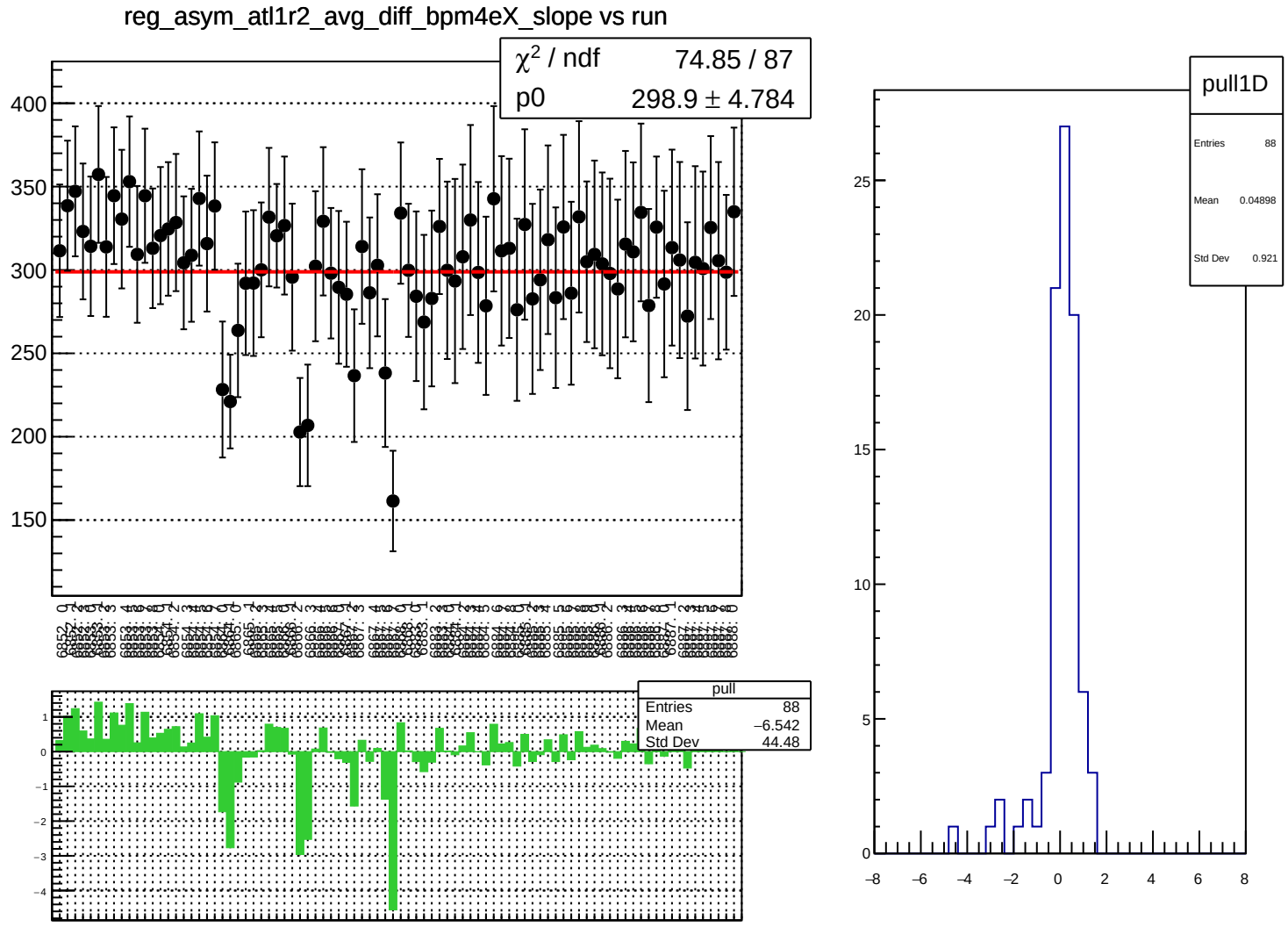

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.66 / 87
p0 −16.27 ± 1.483
pull
Entries 88
Mean 43.52
Std Dev 60.72
pull1D
Entries 88
Mean −0.0155
Std Dev 0.8163

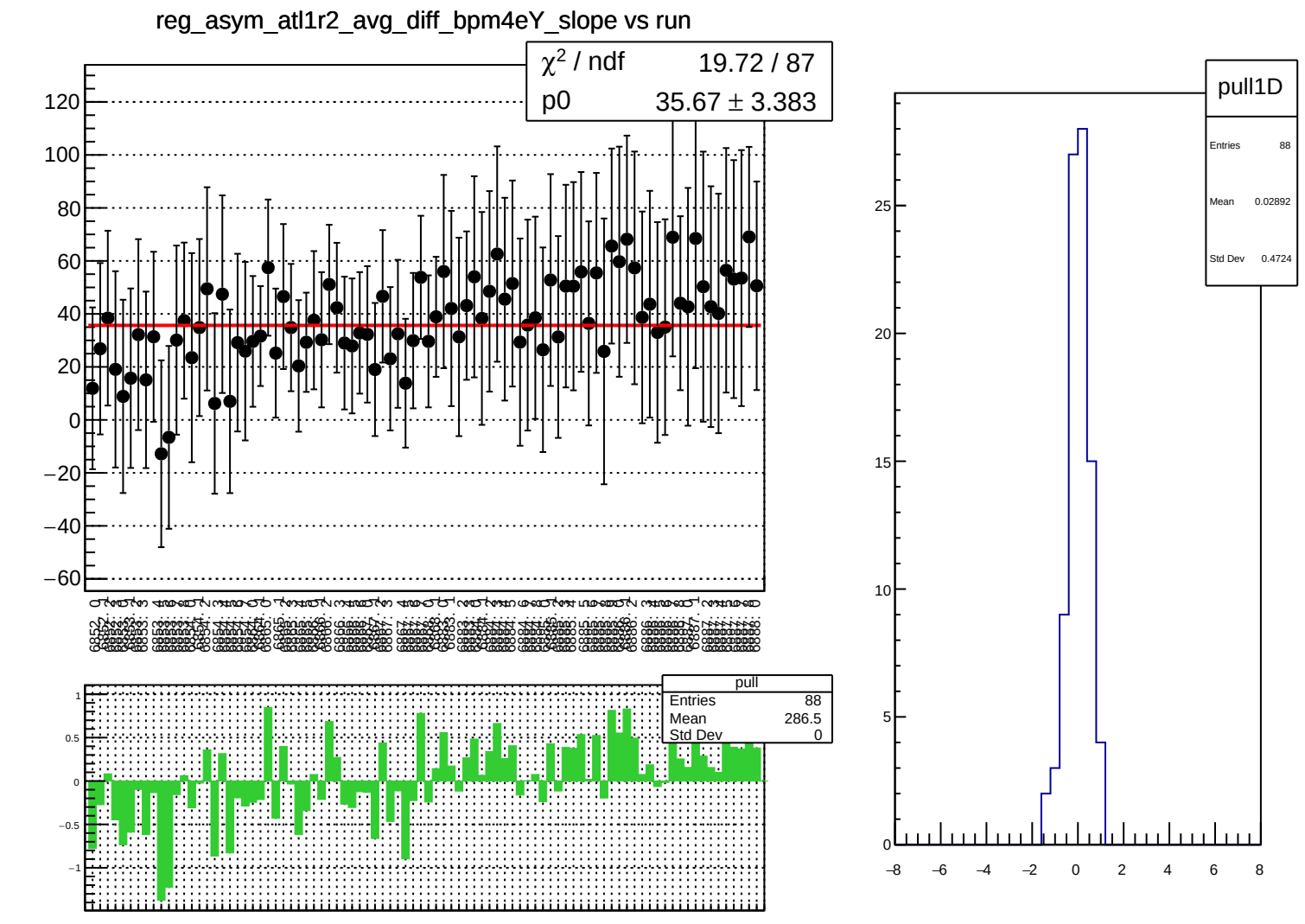

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 75.77 / 87
p0 15.37 ± 0.08055
pull
Entries 88
Mean −181.1
Std Dev 0
pull1D
Entries 88
Mean 0.03079
Std Dev 0.9274

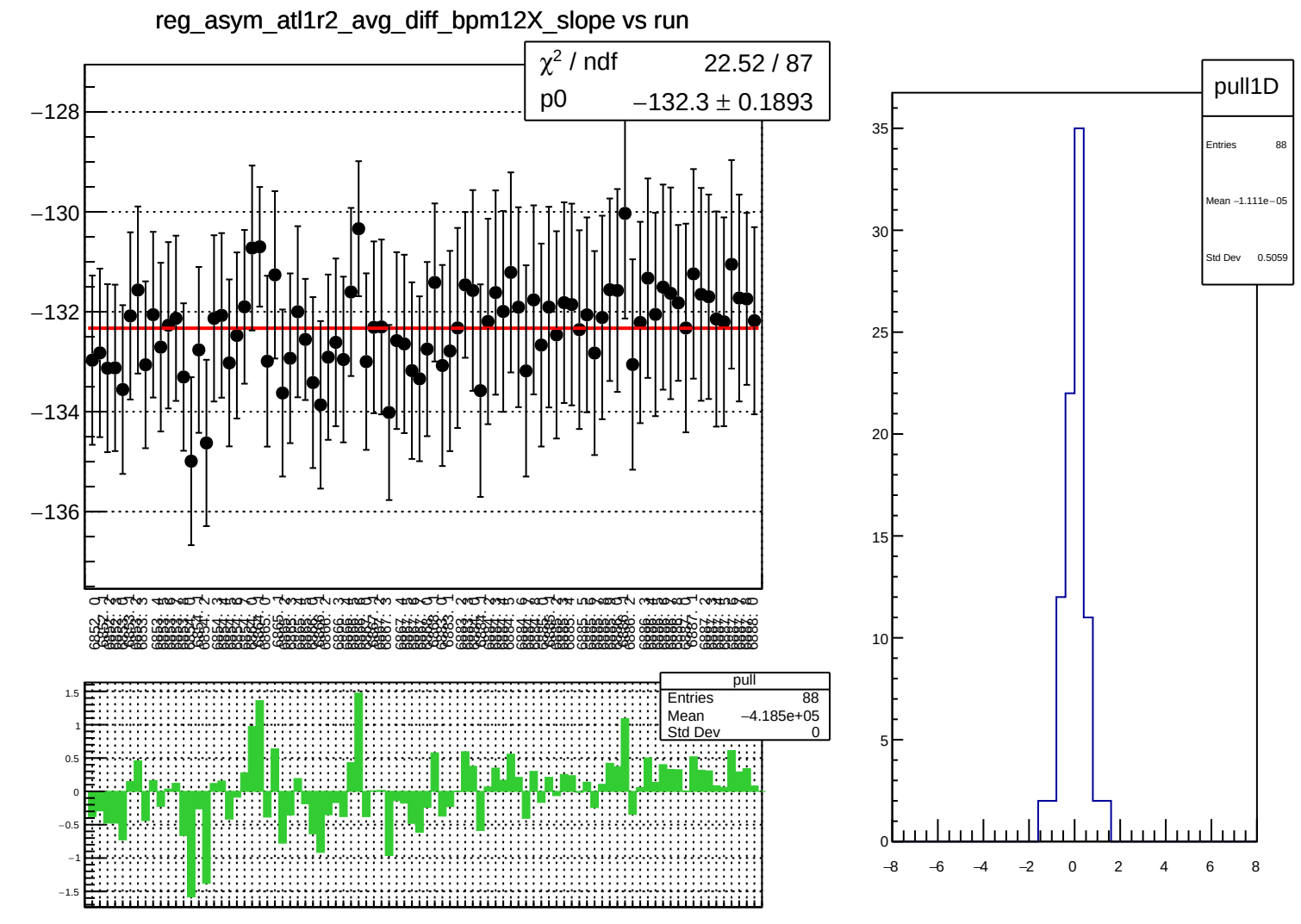

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 69.83 / 87
p0 −244.7 ± 5.035
pull
Entries 88
Mean −87.41
Std Dev 0

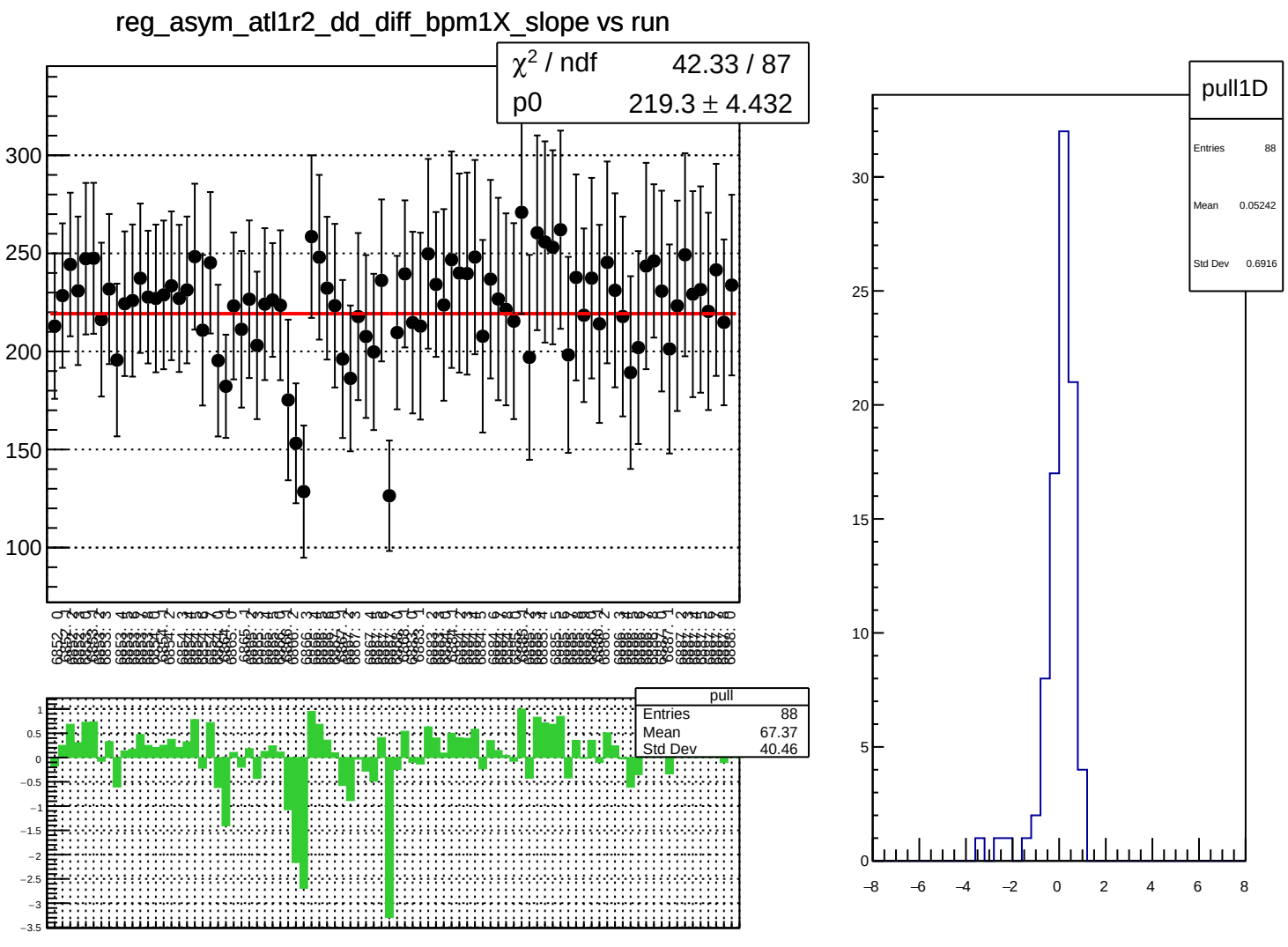

pull1D
Entries 88
Mean −0.03309
Std Dev 0.8902

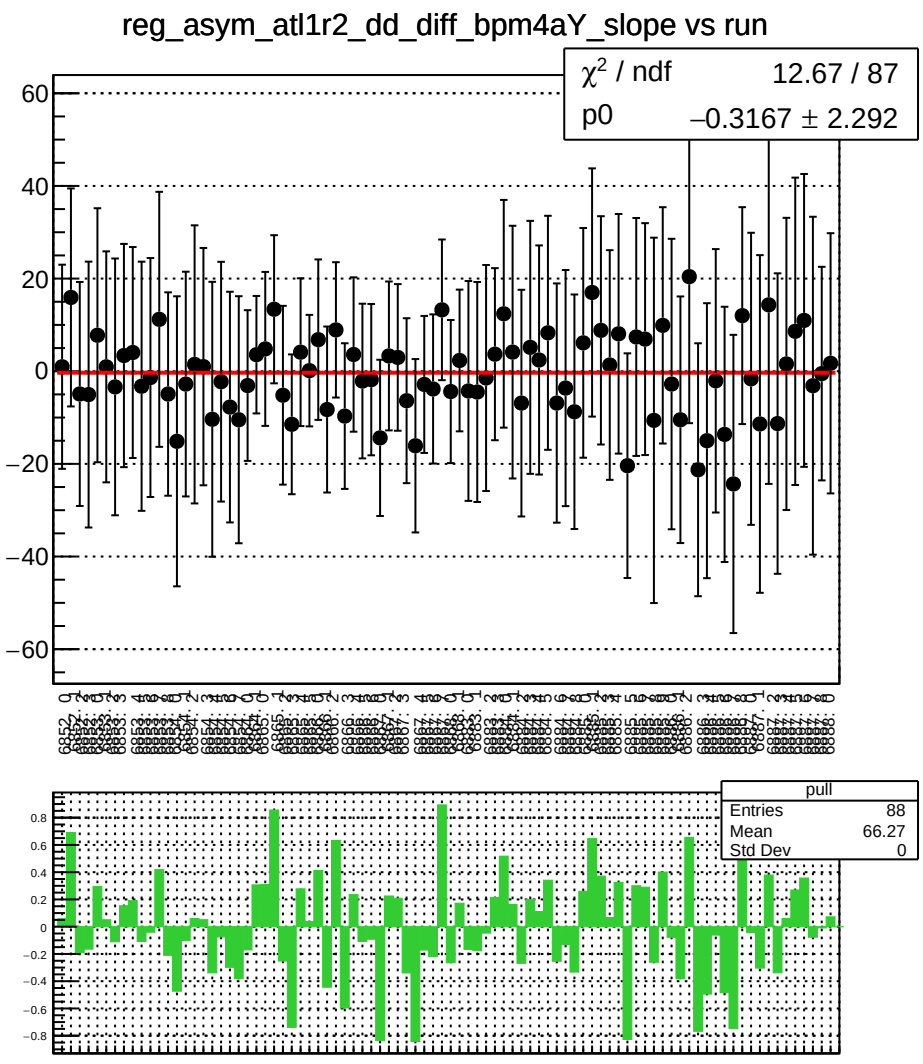

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.06 / 87
p0 14.7 ± 2.605
pull
Entries 88
Mean 259.8
Std Dev 0
pull1D
Entries 88
Mean −0.03344
Std Dev 0.4881

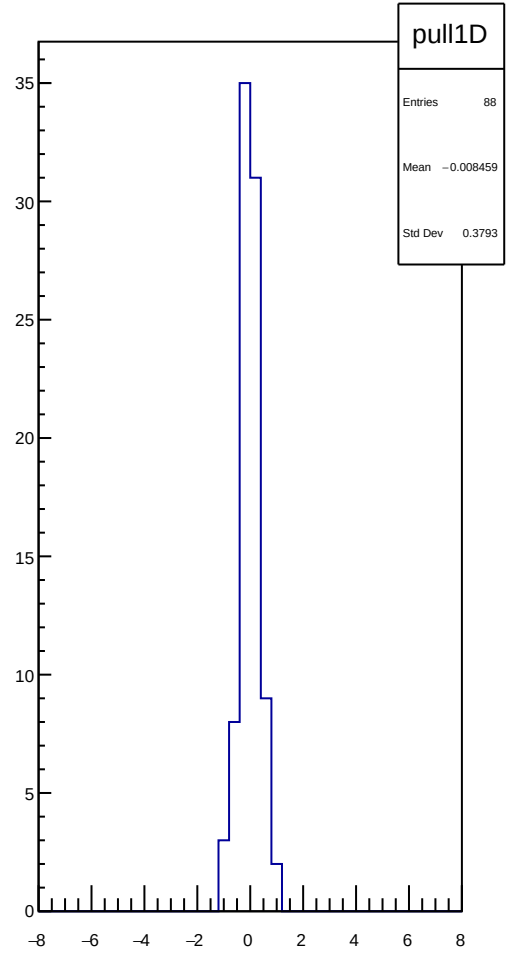

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.85 / 87
p0 298.9 ± 4.784
400
350
300
250
200
150
pull
Entries 88
Mean −6.542
Std Dev 44.48
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean 0.04898
Std Dev 0.921
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

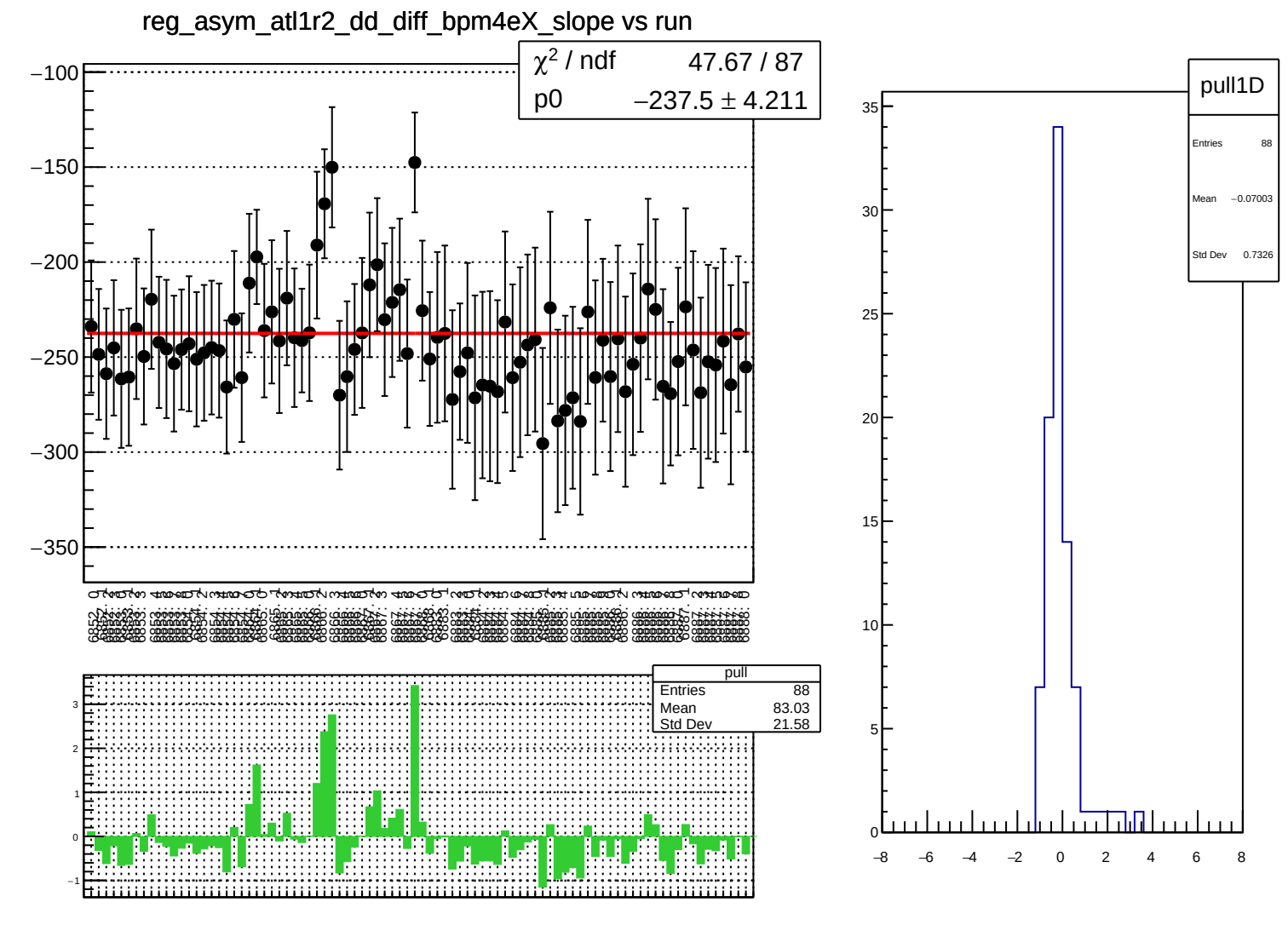

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.72 / 87
p0 35.67 ± 3.383
pull
Entries 88
Mean 286.5
Std Dev 0
pull1D
Entries 88
Mean 0.02892
Std Dev 0.4724

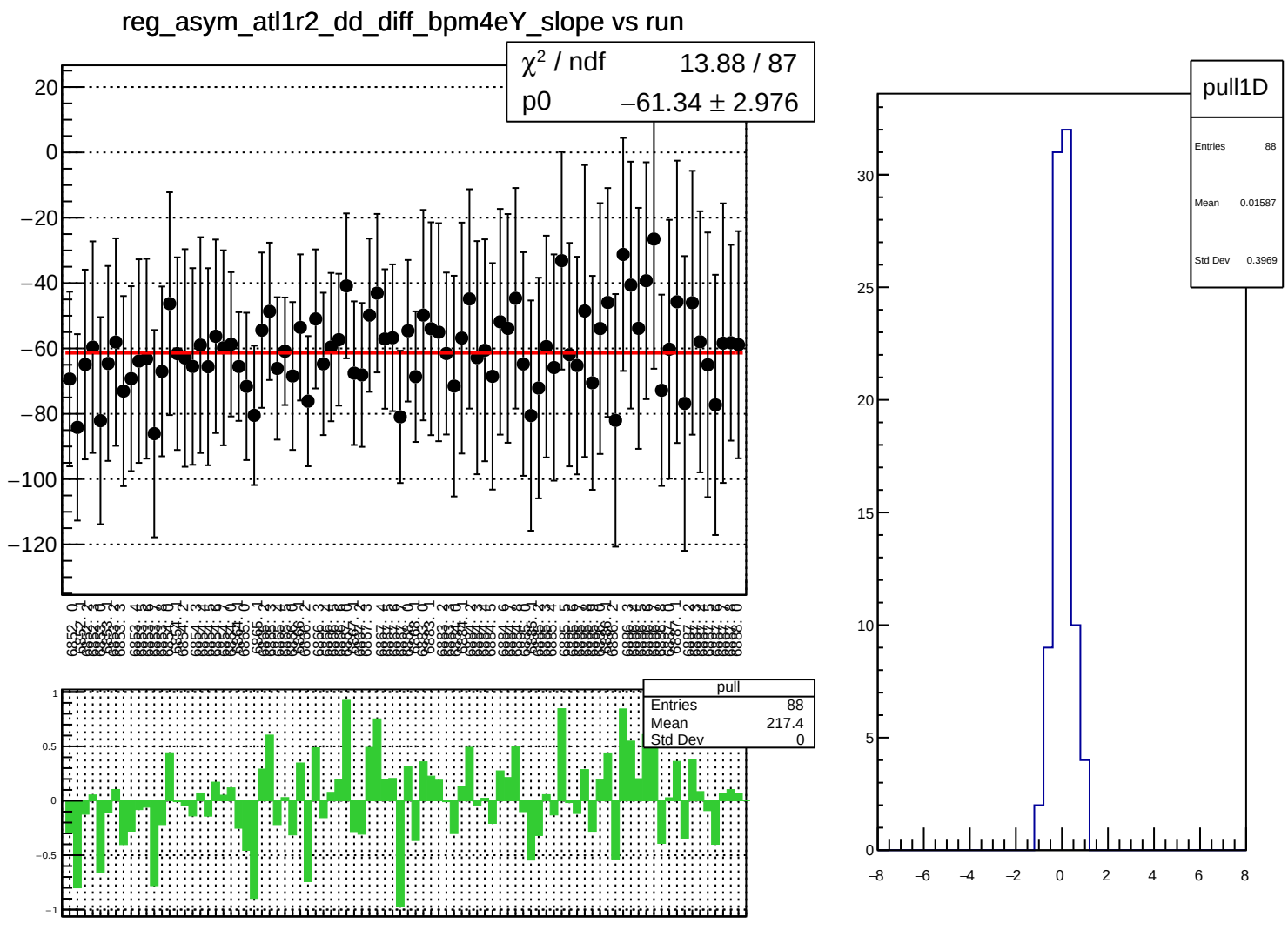

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 22.52 / 87
p0 −132.3 ± 0.1893
−128
−130
−132
−134
−136
pull
Entries 88
Mean −4.185e+05
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean −1.111e−05
Std Dev 0.5059
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

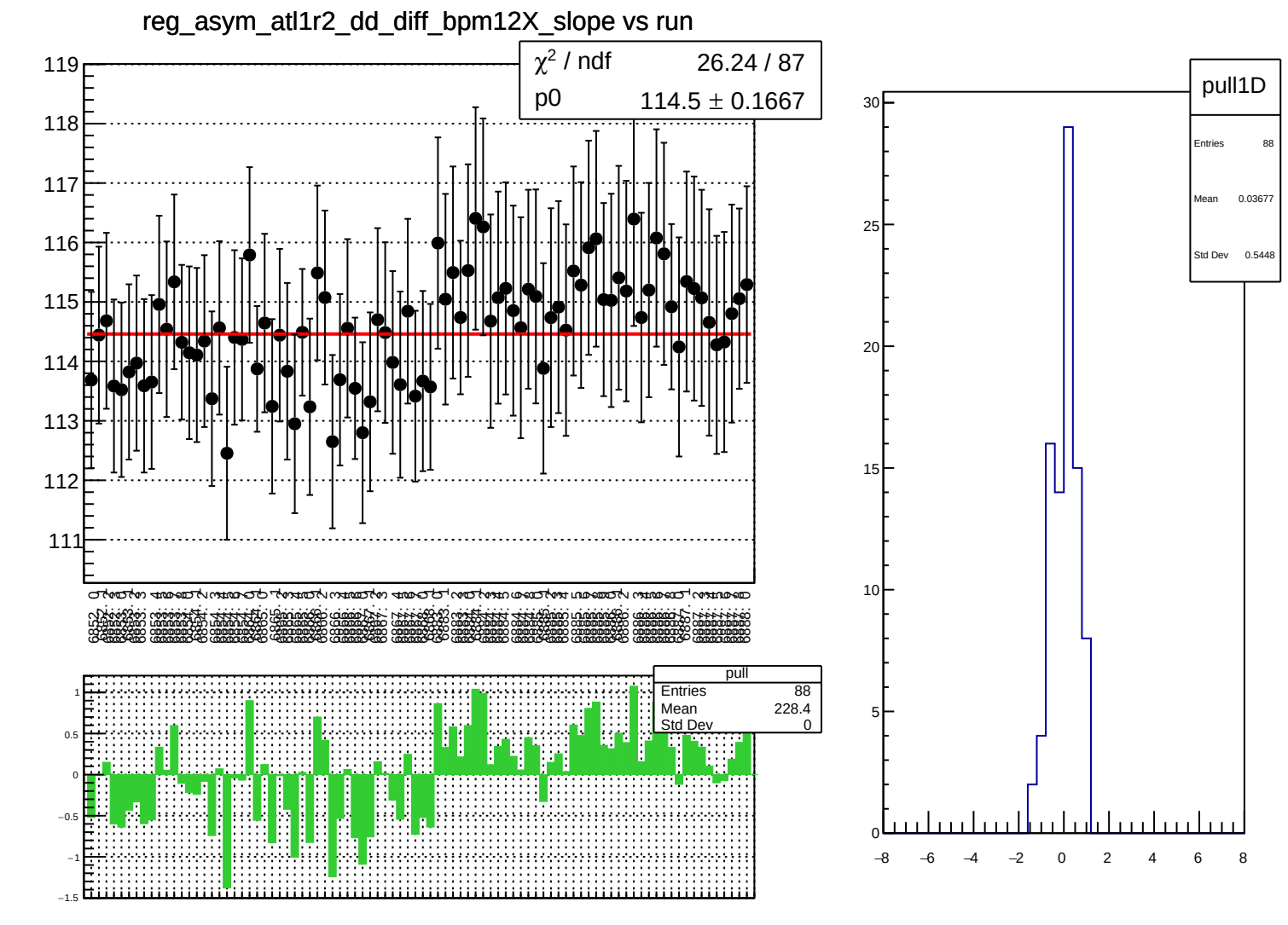

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 42.33 / 87
p0 219.3 ± 4.432
300
250
200
150
100
pull
Entries 88
Mean 67.37
Std Dev 40.46
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 88
Mean 0.05242
Std Dev 0.6916
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

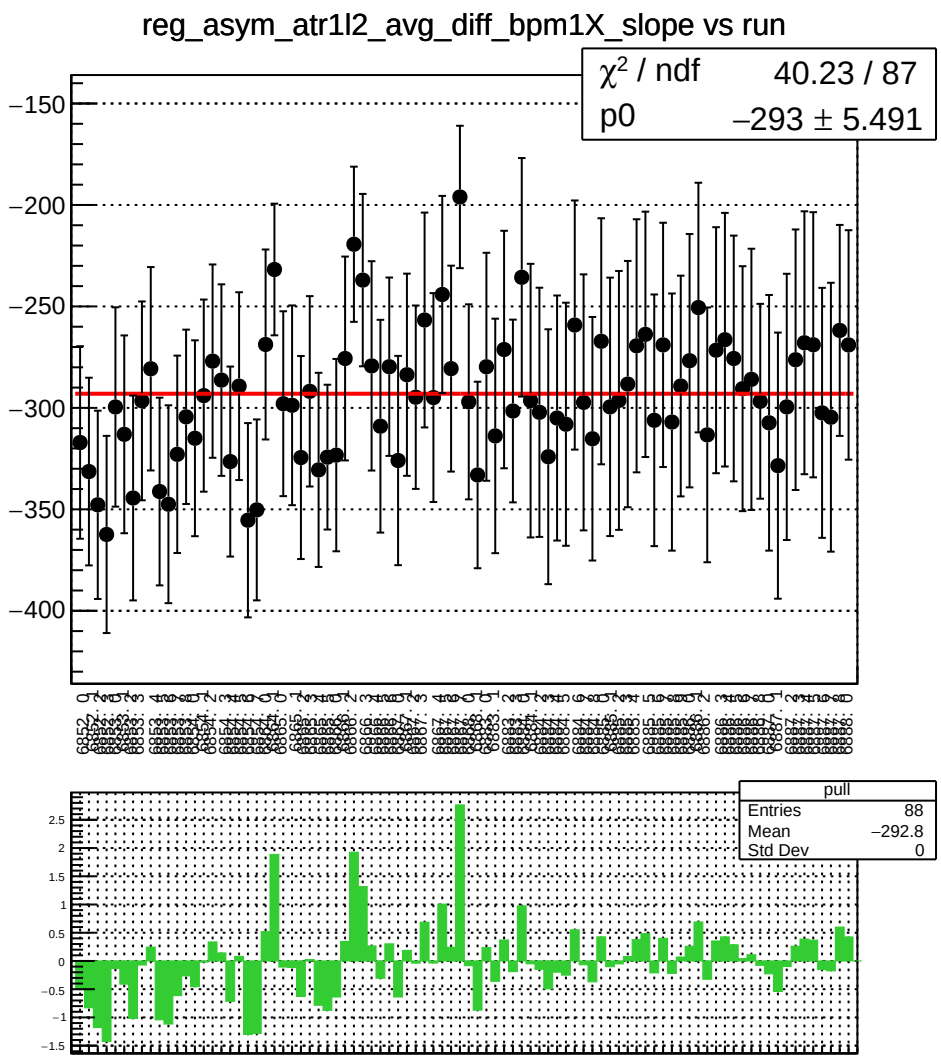

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.67 / 87
p0 −0.3167 ± 2.292
pull
Entries 88
Mean 66.27
Std Dev 0

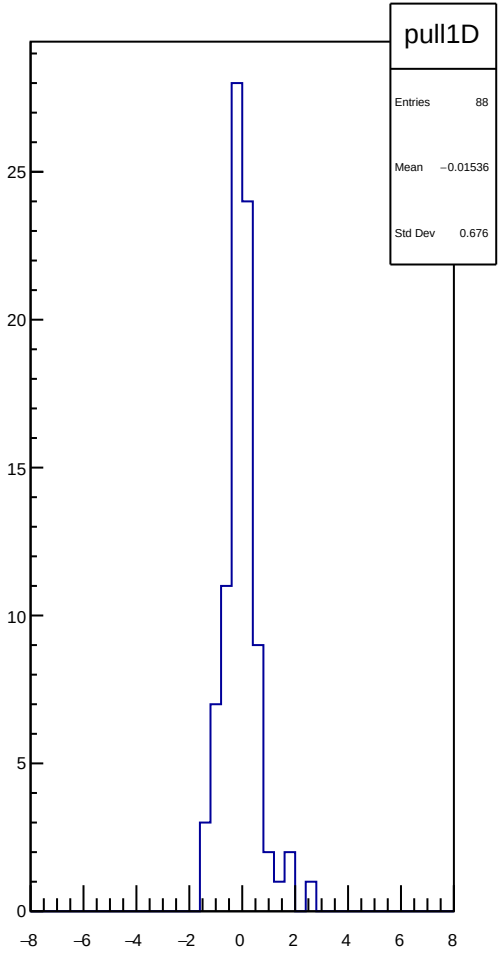

pull1D
Entries 88
Mean −0.008459
Std Dev 0.3793

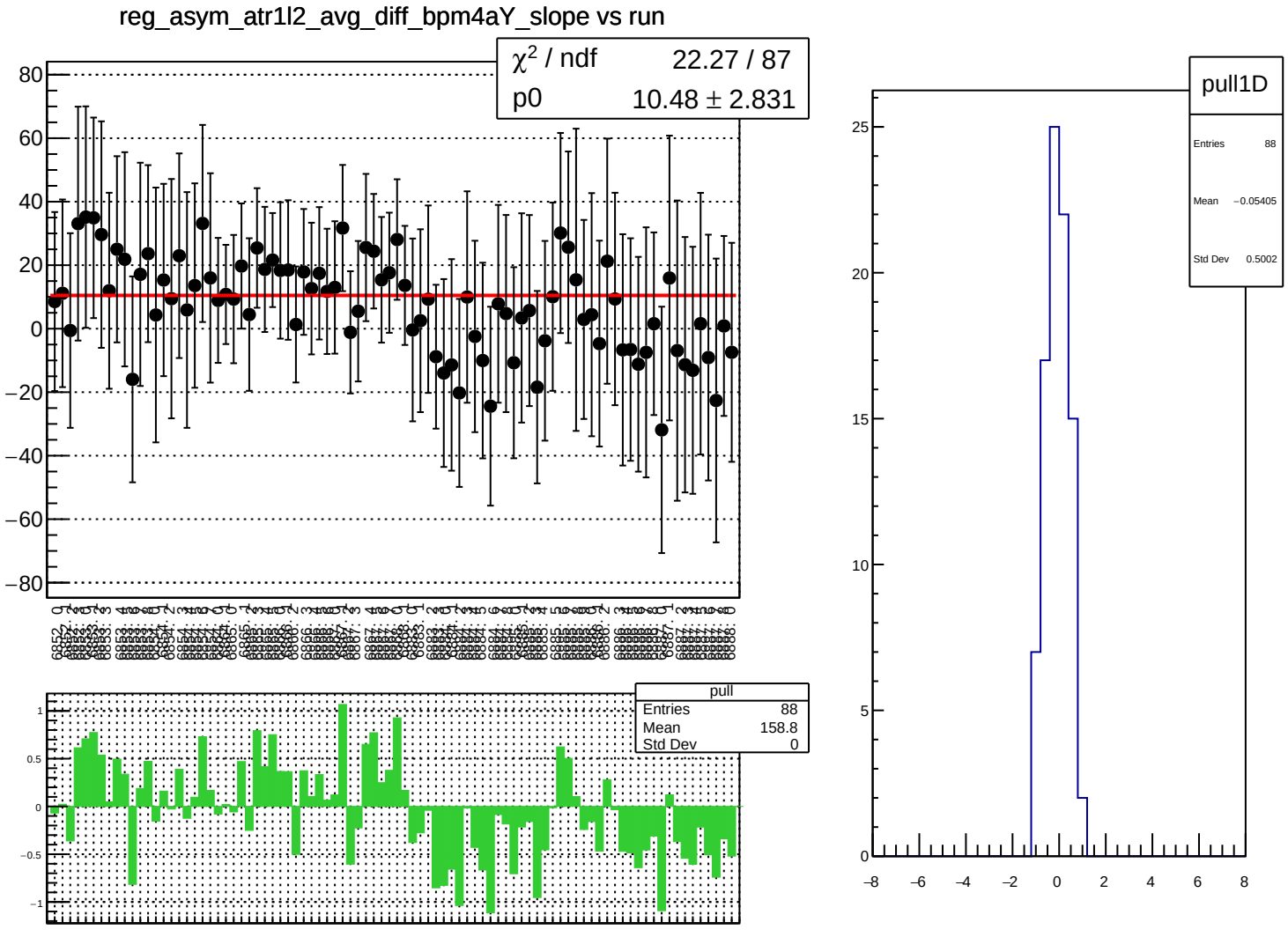

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.67 / 87
p0 −237.5 ± 4.211
−100
−150
−200
−250
−300
−350
pull
Entries 88
Mean 83.03
Std Dev 21.58
3
2
1
0
−1
pull1D
Entries 88
Mean −0.07003
Std Dev 0.7326
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

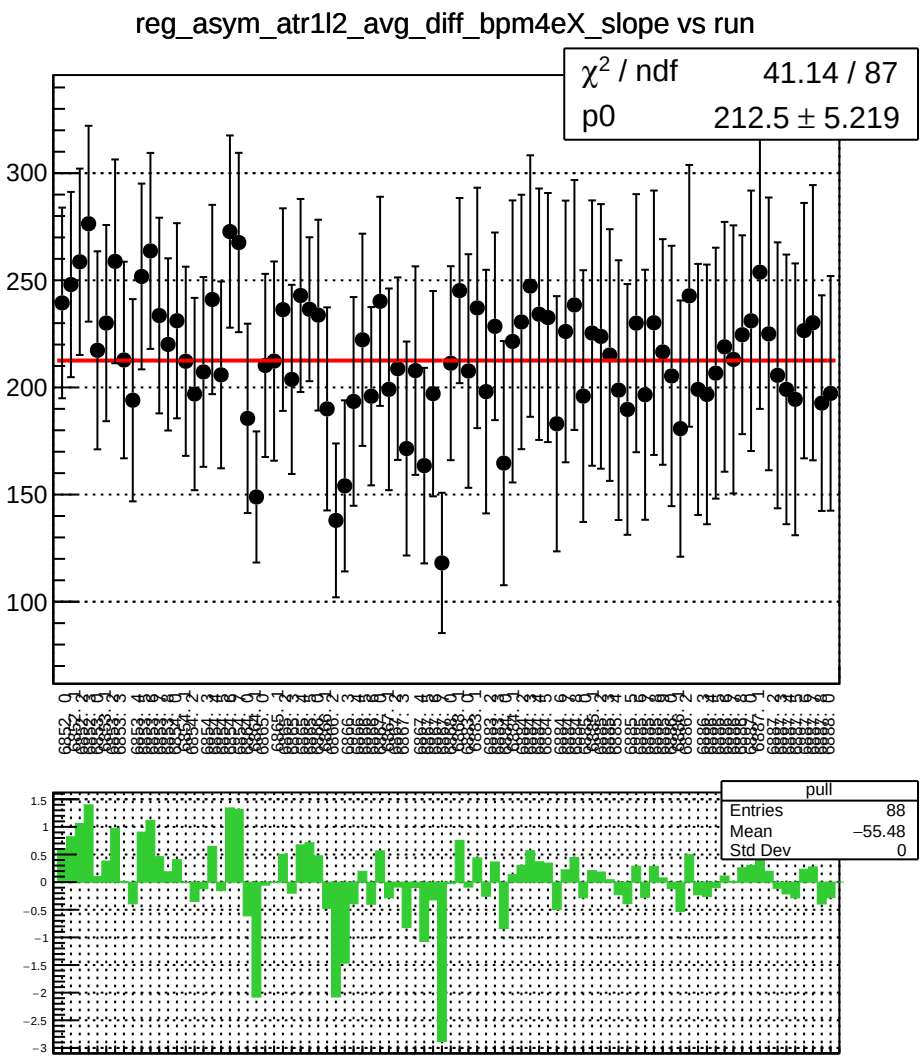

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.88 / 87
p0 −61.34 ± 2.976
pull
Entries 88
Mean 217.4
Std Dev 0
pull1D
Entries 88
Mean 0.01587
Std Dev 0.3969

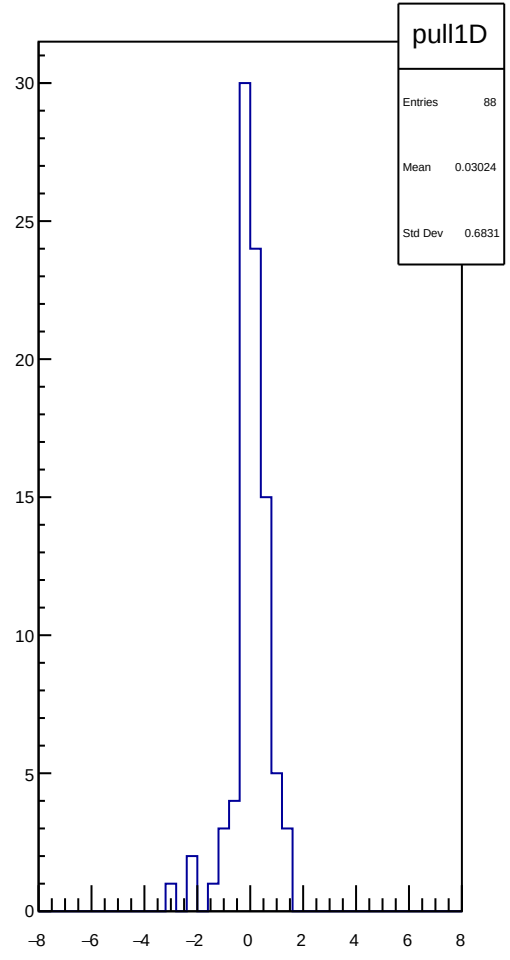

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 26.24 / 87
p0 114.5 ± 0.1667
pull
Entries 88
Mean 228.4
Std Dev 0
pull1D
Entries 88
Mean 0.03677
Std Dev 0.5448

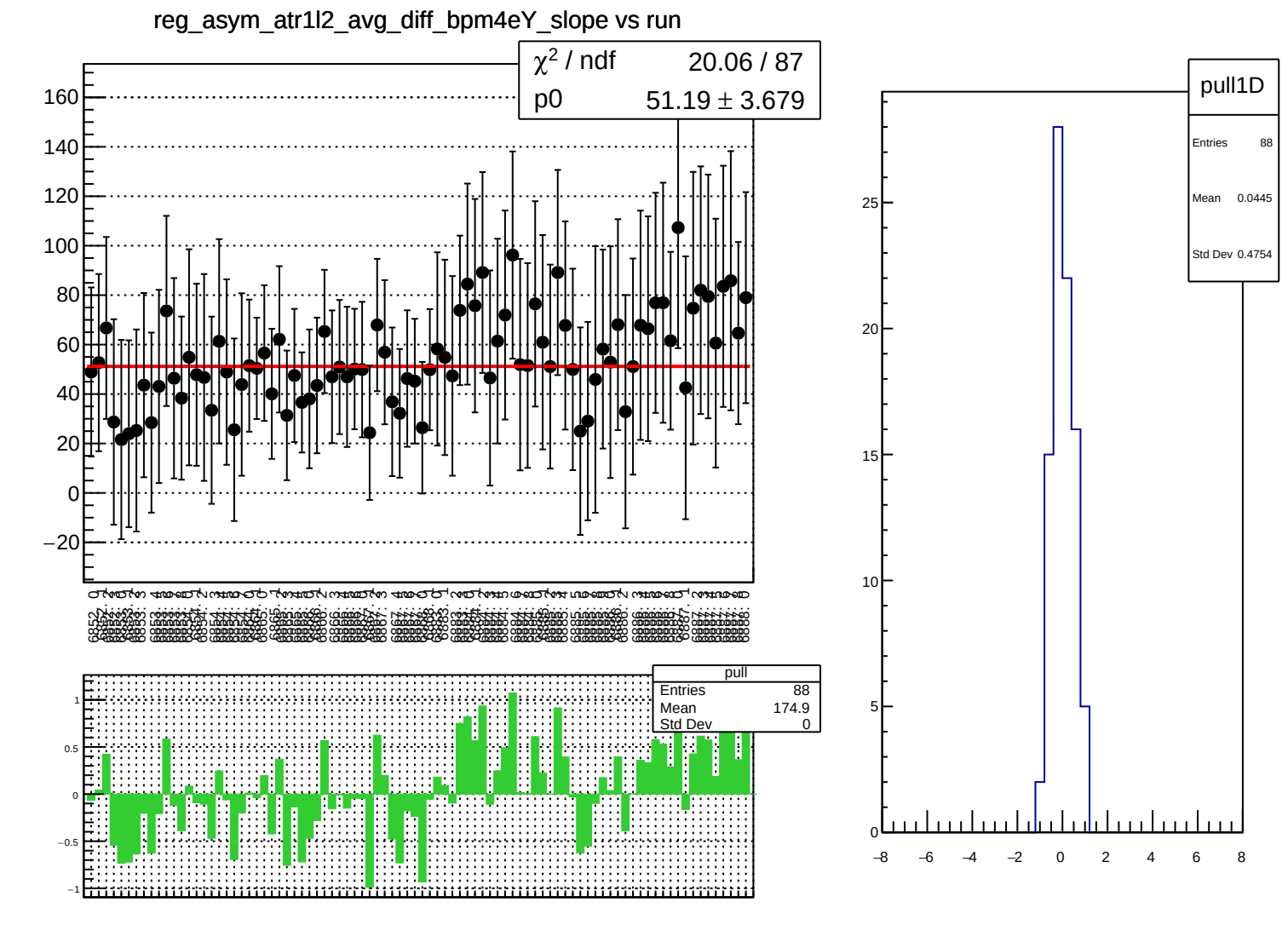

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 40.23 / 87
p0 −293 ± 5.491
−150
−200
−250
−300
−350
−400
pull
Entries 88
Mean −292.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

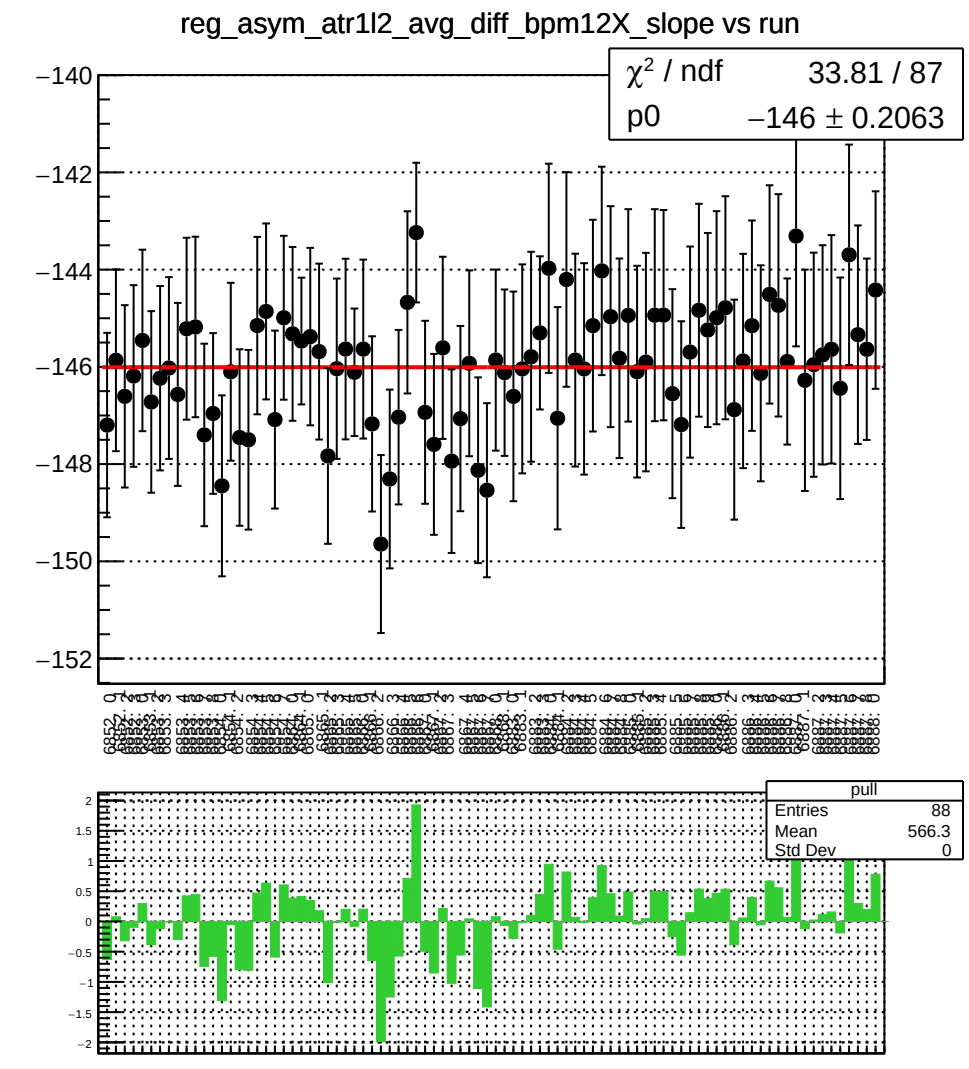

pull1D
Entries 88
Mean −0.01536
Std Dev 0.676
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

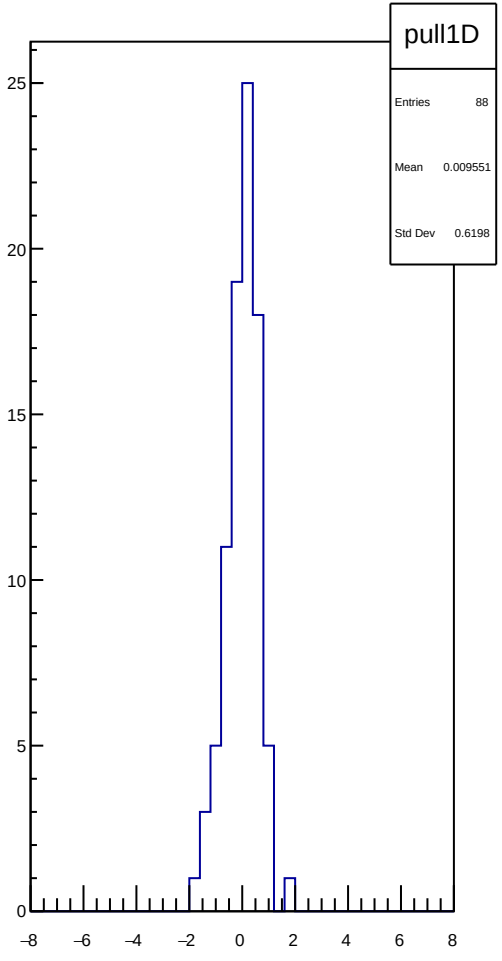

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.27 / 87
p0 10.48 ± 2.831
pull
Entries 88
Mean 158.8
Std Dev 0
pull1D
Entries 88
Mean −0.05405
Std Dev 0.5002

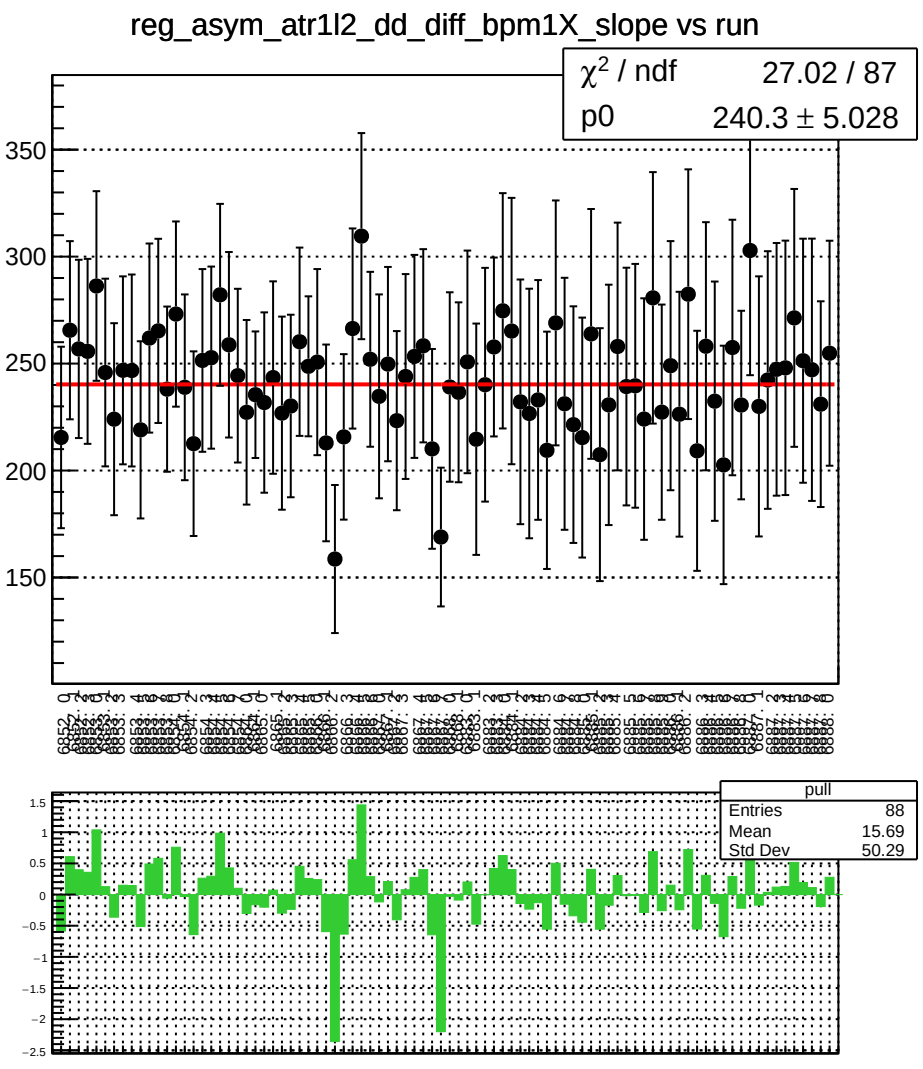

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.14 / 87
p0 212.5 ± 5.219
300
250
200
150
100
pull
Entries 88
Mean −55.48
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

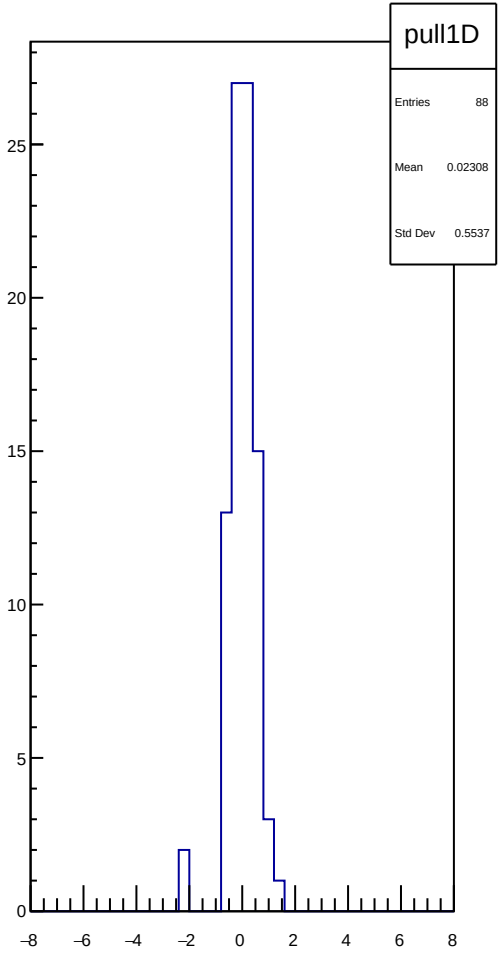

pull1D
Entries 88
Mean 0.03024
Std Dev 0.6831
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

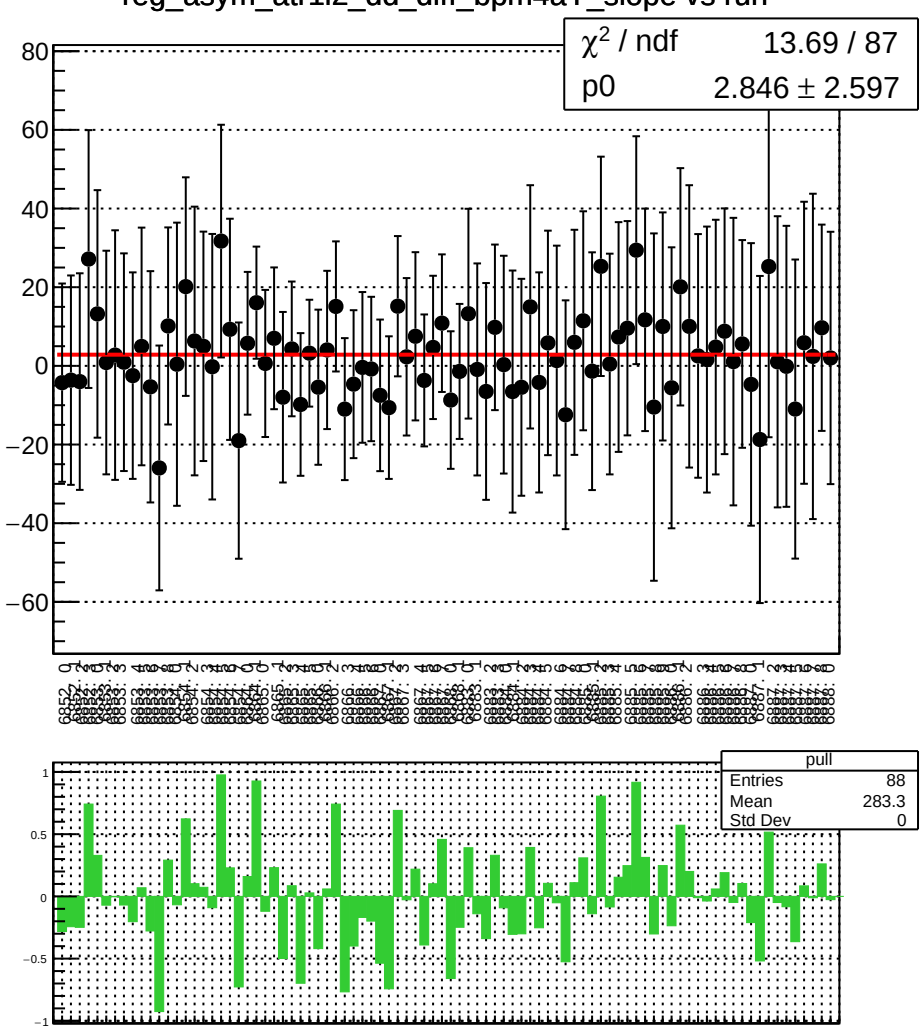

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.06 / 87
p0 51.19 ± 3.679
pull
Entries 88
Mean 174.9
Std Dev 0
pull1D
Entries 88
Mean 0.0445
Std Dev 0.4754

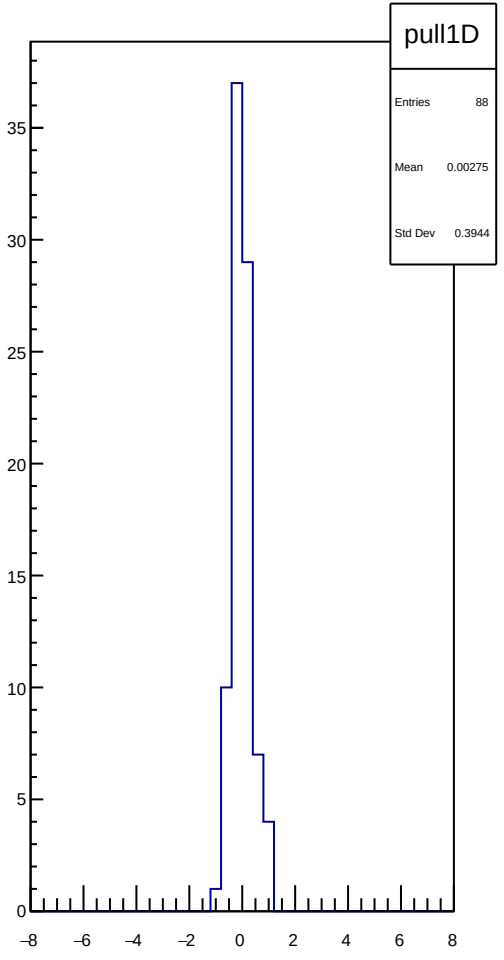

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 33.81 / 87
p0 −146 ± 0.2063
pull
Entries 88
Mean 566.3
Std Dev 0

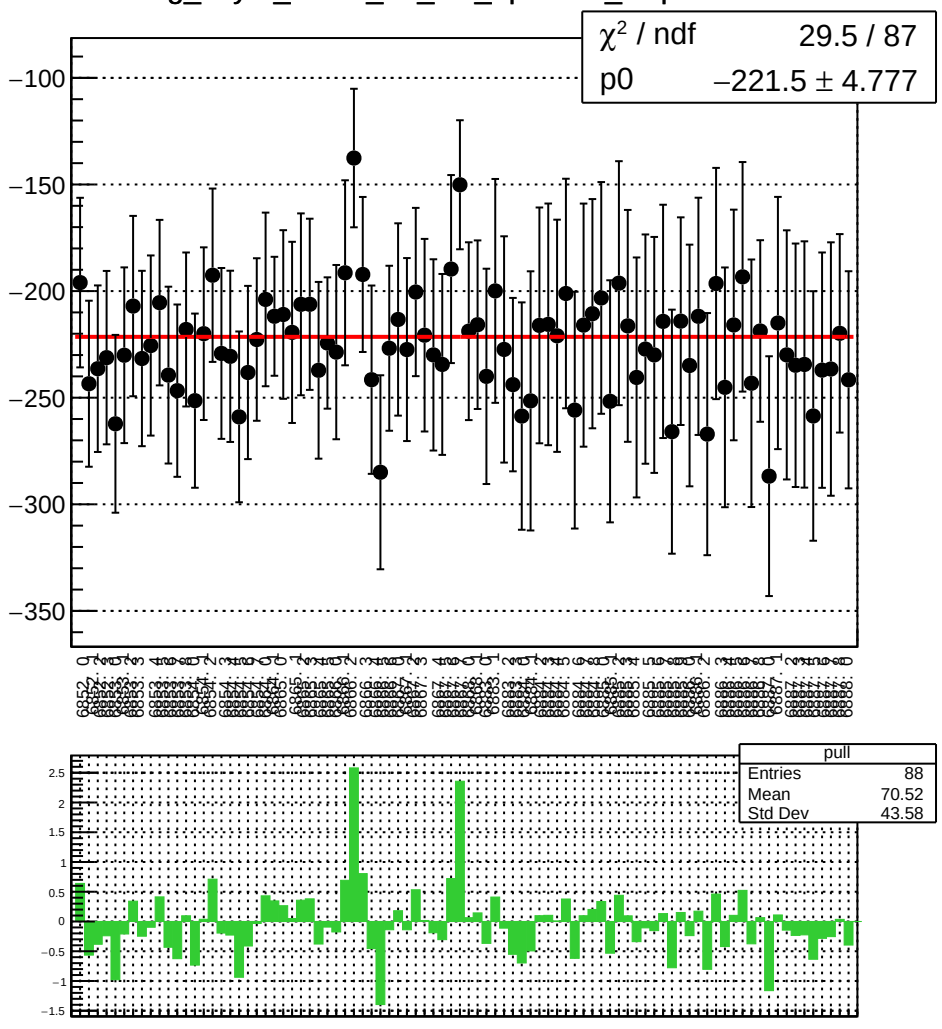

pull1D
Entries 88
Mean 0.009551
Std Dev 0.6198

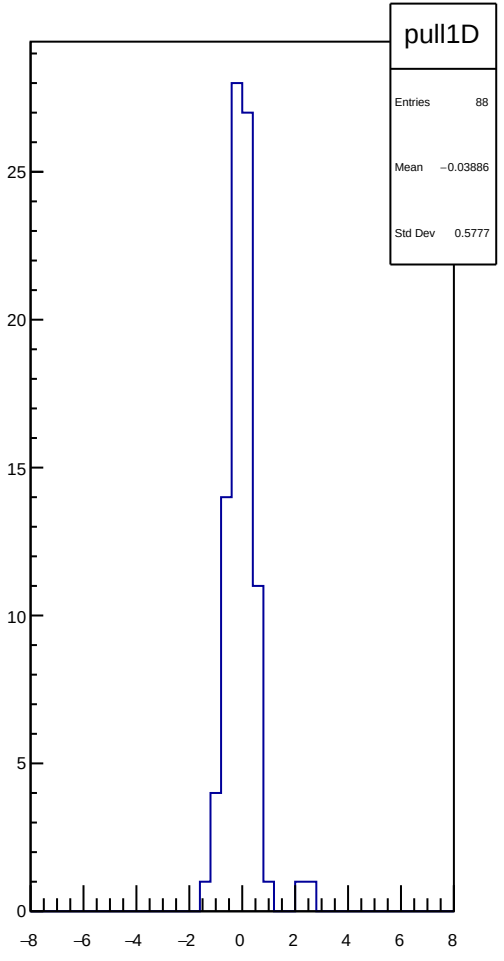

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 27.02 / 87
p0 240.3 ± 5.028
350
300
250
200
150
pull
Entries 88
Mean 15.69
Std Dev 50.29
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

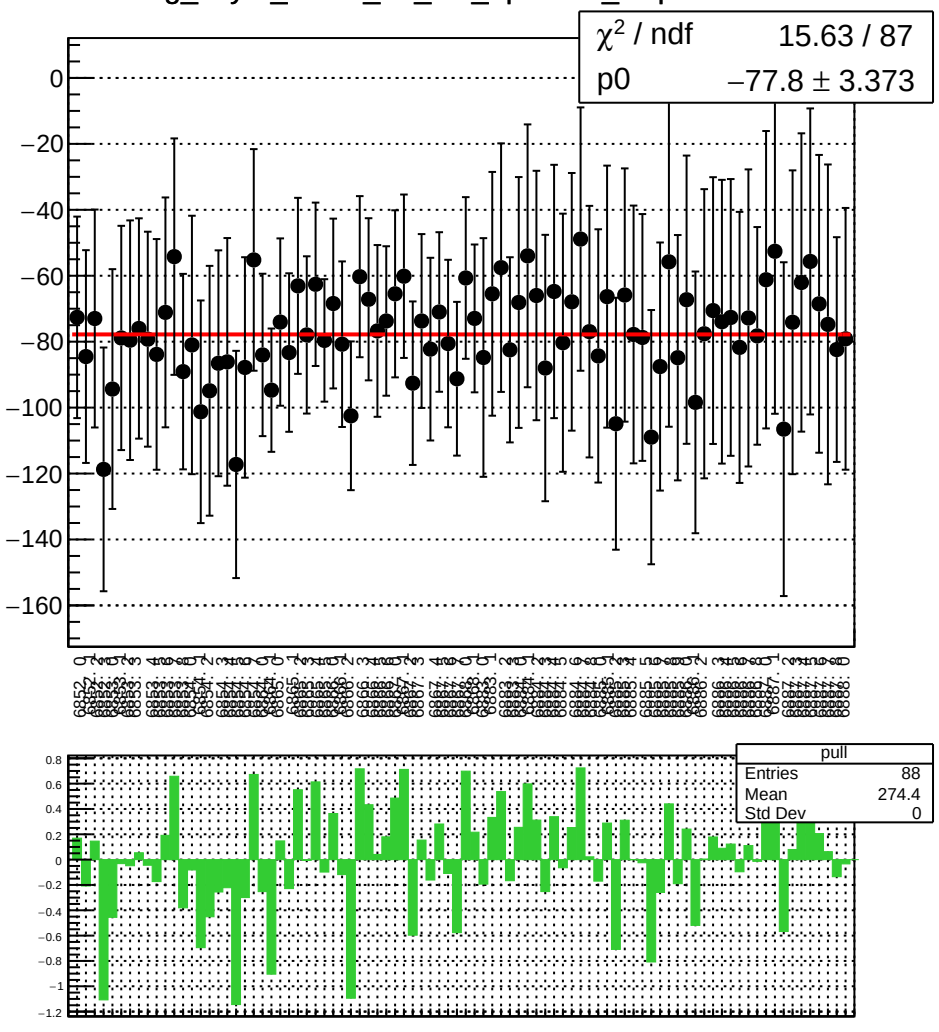

pull1D
Entries 88
Mean 0.02308
Std Dev 0.5537
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

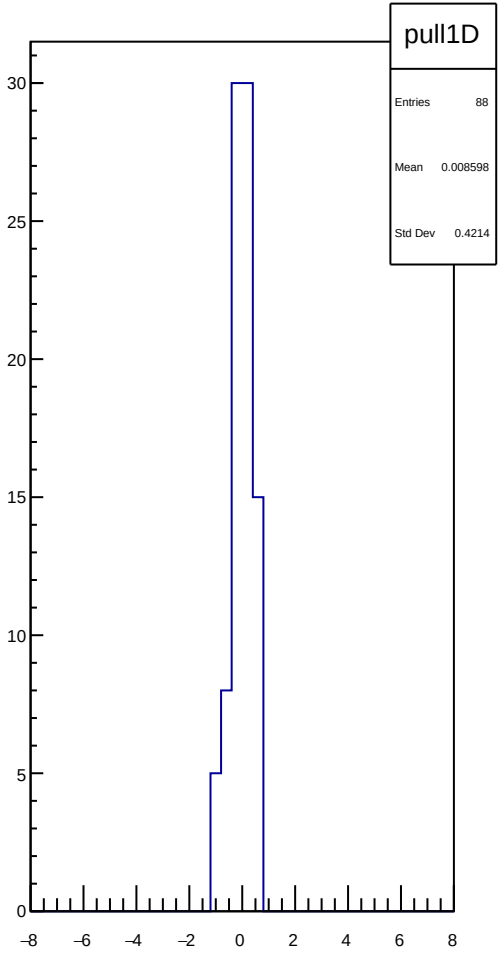

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.69 / 87
p0 2.846 ± 2.597
pull
Entries 88
Mean 283.3
Std Dev 0

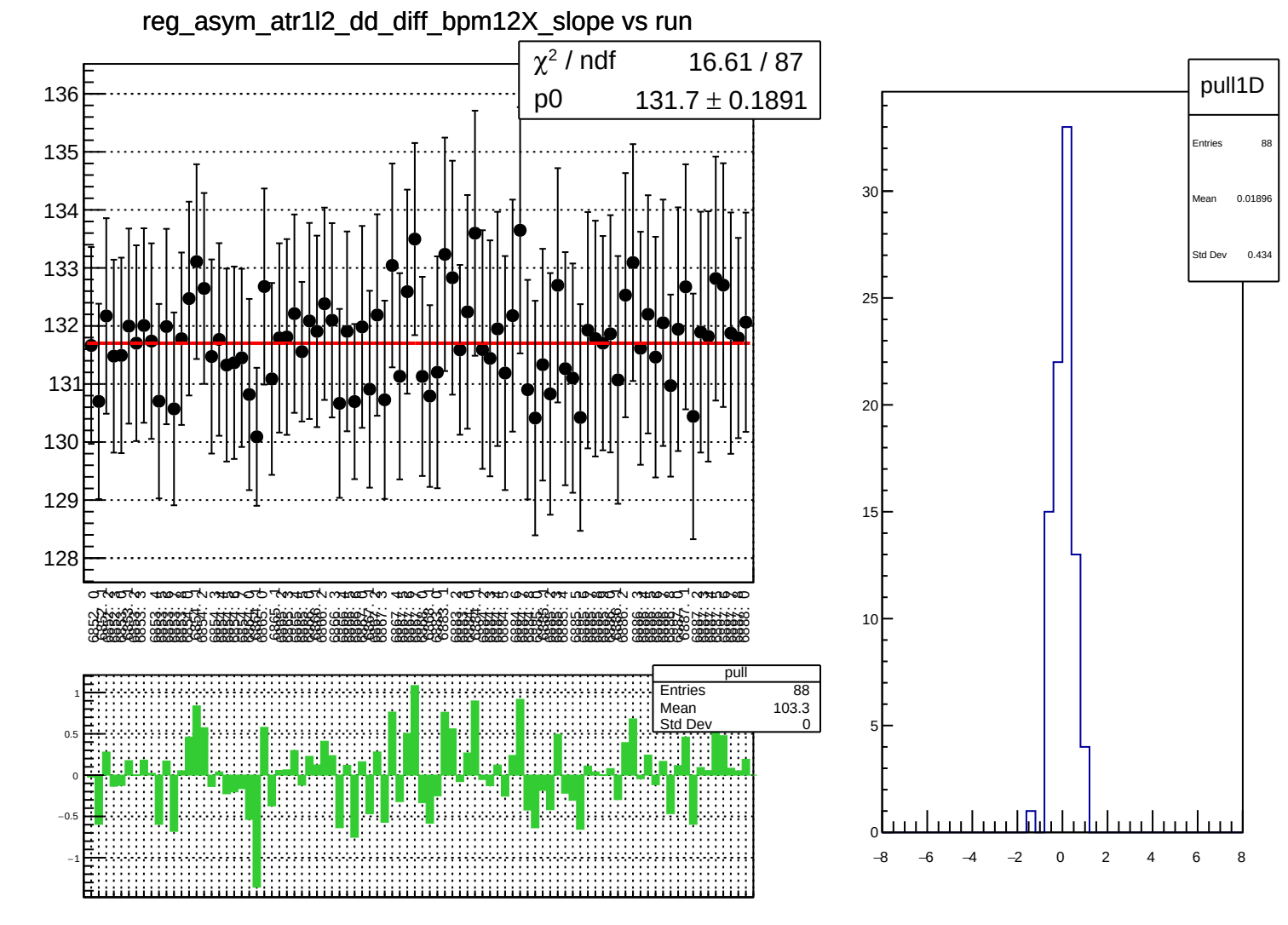

pull1D
Entries 88
Mean 0.00275
Std Dev 0.3944

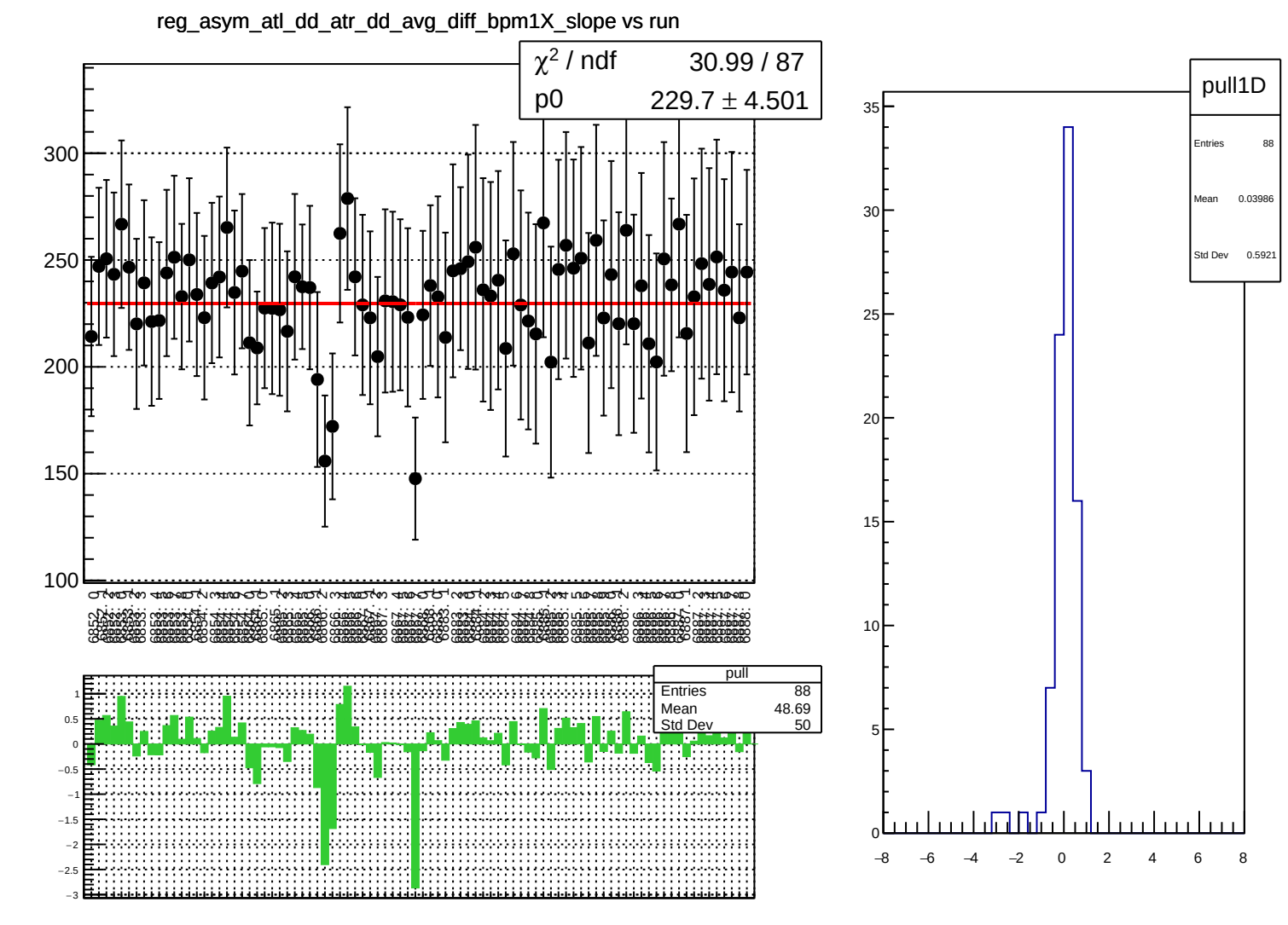

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.5 / 87
p0 −221.5 ± 4.777
−100
−150
−200
−250
−300
−350
pull
Entries 88
Mean 70.52
Std Dev 43.58
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

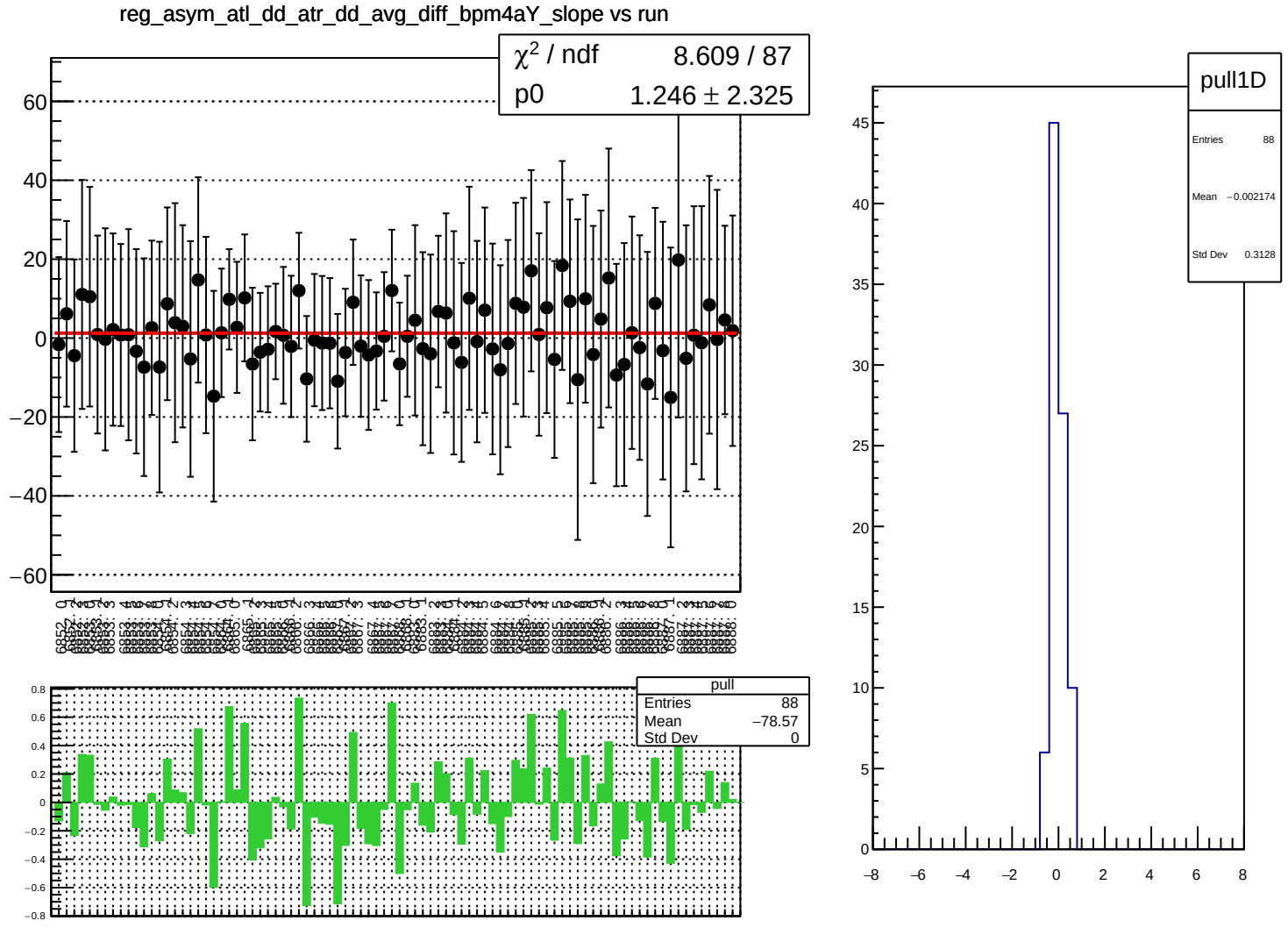

pull1D
Entries 88
Mean −0.03886
Std Dev 0.5777
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

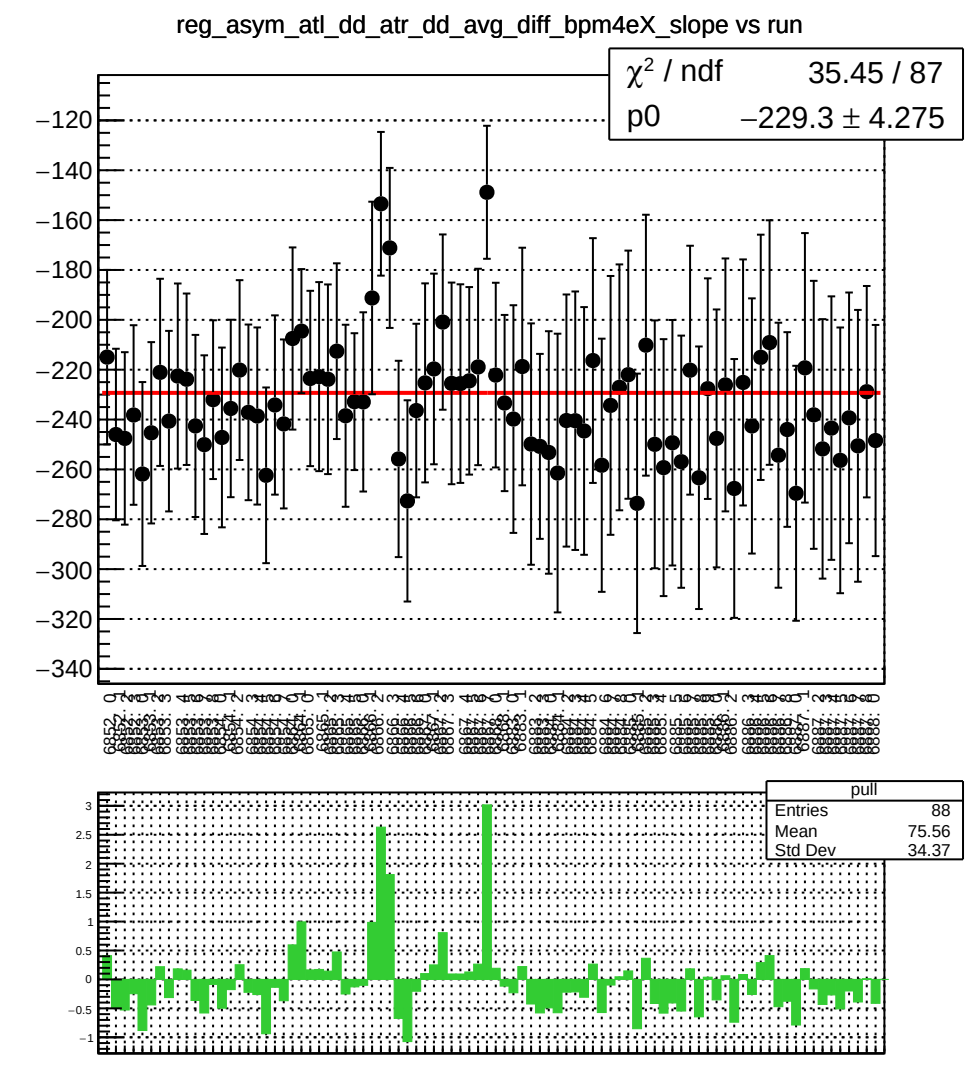

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.63 / 87
p0 −77.8 ± 3.373
pull
Entries 88
Mean 274.4
Std Dev 0

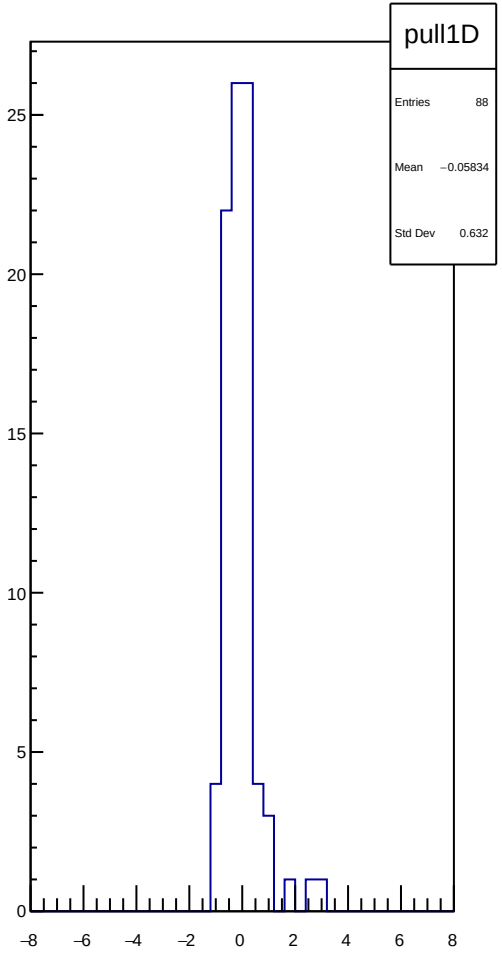

pull1D
Entries 88
Mean 0.008598
Std Dev 0.4214

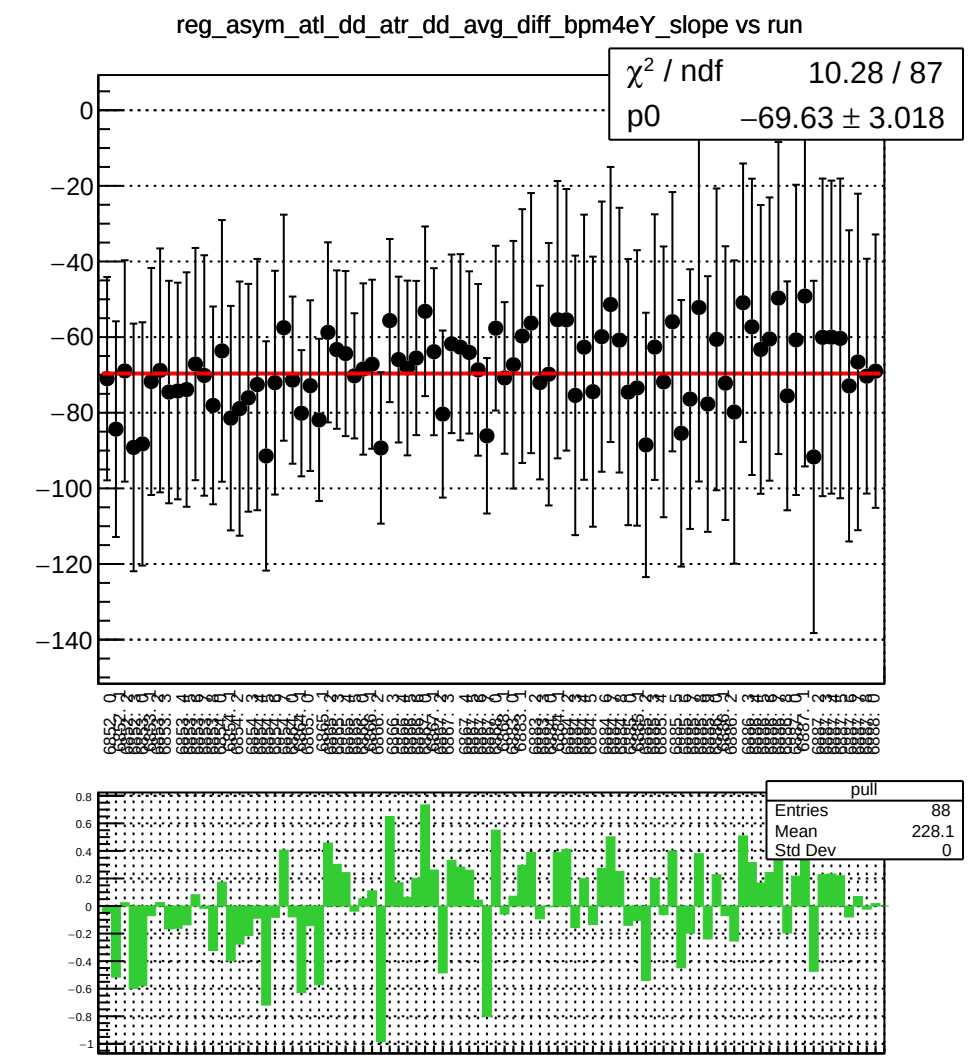

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 16.61 / 87
p0 131.7 ± 0.1891
pull
Entries 88
Mean 103.3
Std Dev 0
pull1D
Entries 88
Mean 0.01896
Std Dev 0.434

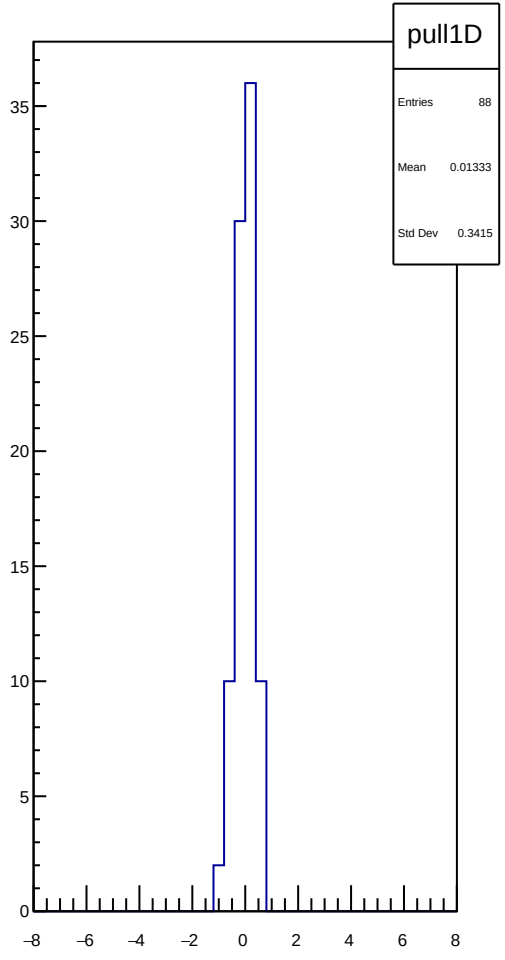

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 30.99 / 87
p0 229.7 ± 4.501
pull
Entries 88
Mean 48.69
Std Dev 50
pull1D
Entries 88
Mean 0.03986
Std Dev 0.5921

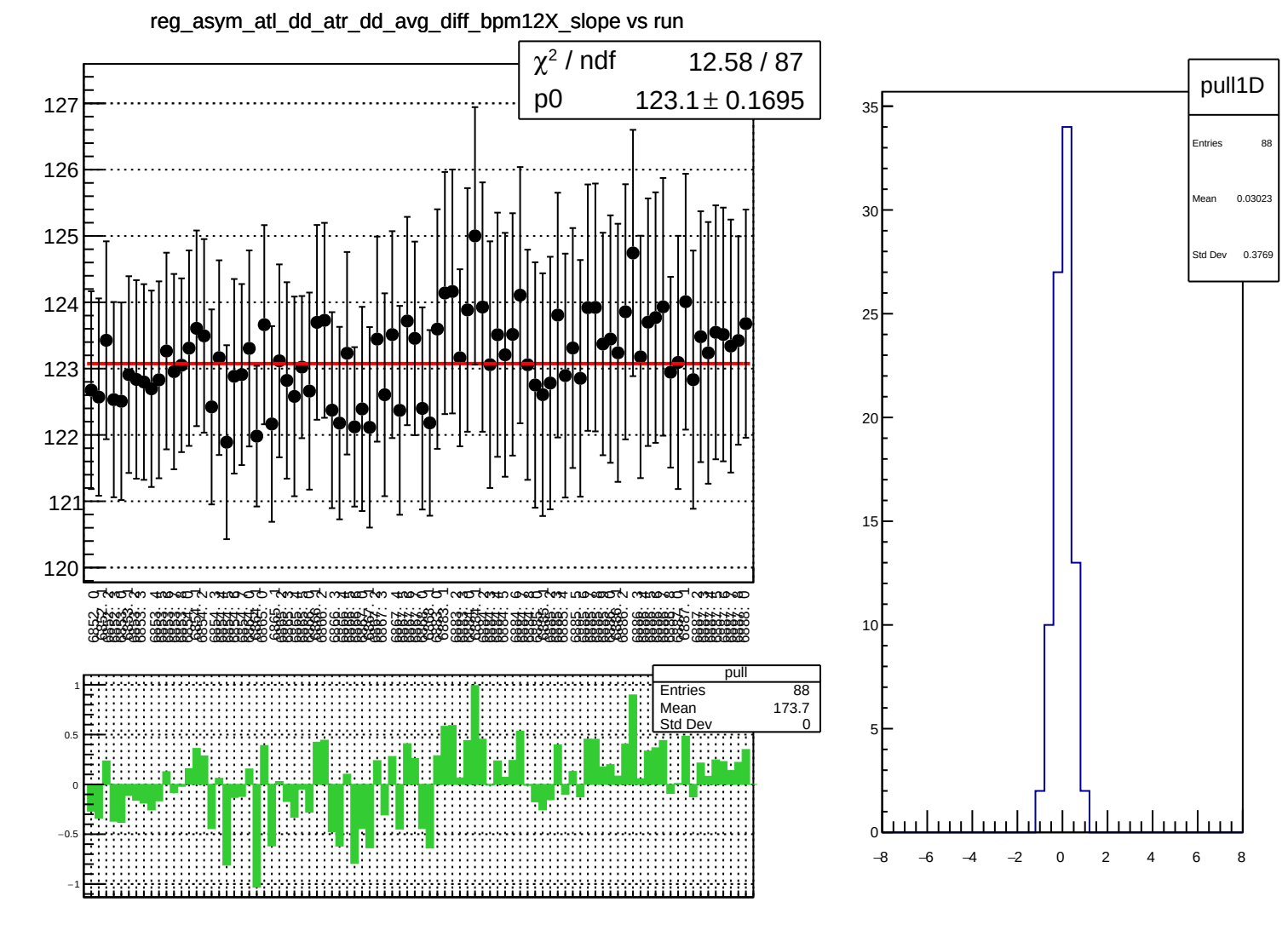

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.609 / 87
p0 1.246 ± 2.325
pull
Entries 88
Mean −78.57
Std Dev 0
pull1D
Entries 88
Mean −0.002174
Std Dev 0.3128

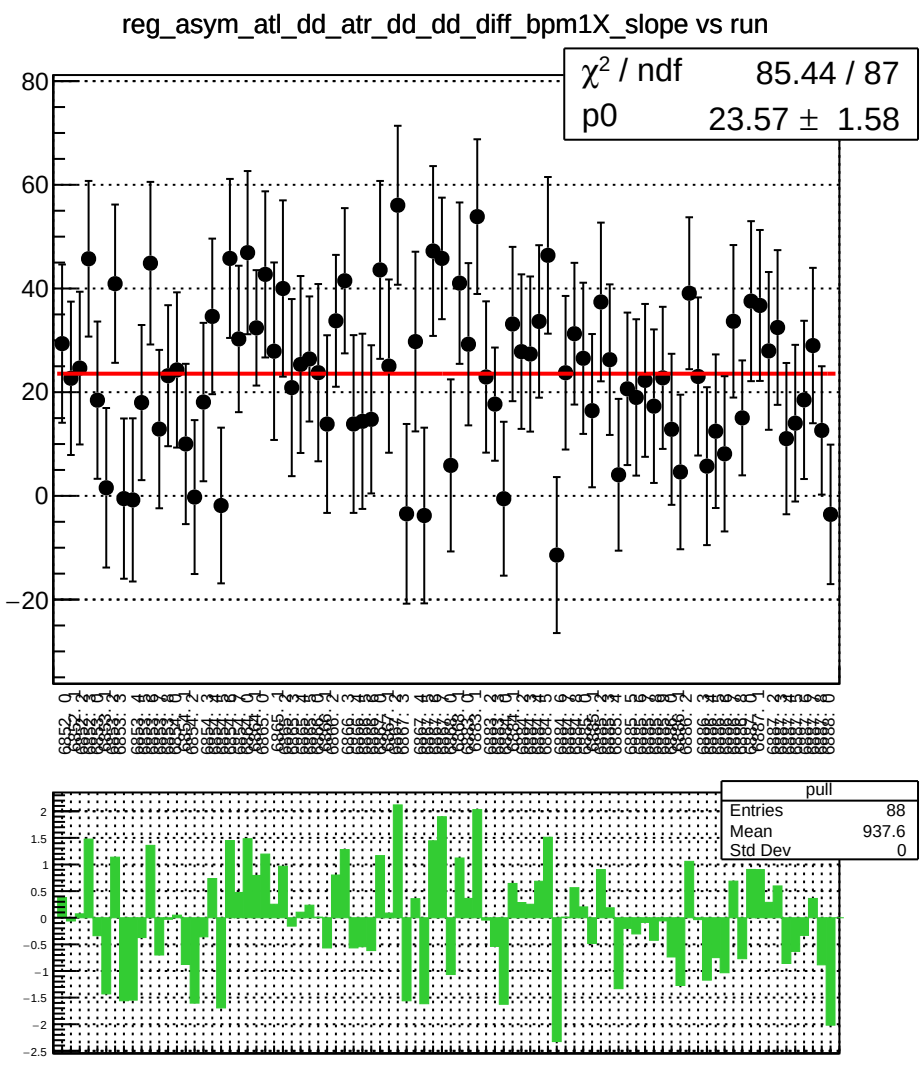

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.45 / 87
p0 −229.3 ± 4.275
pull
Entries 88
Mean 75.56
Std Dev 34.37

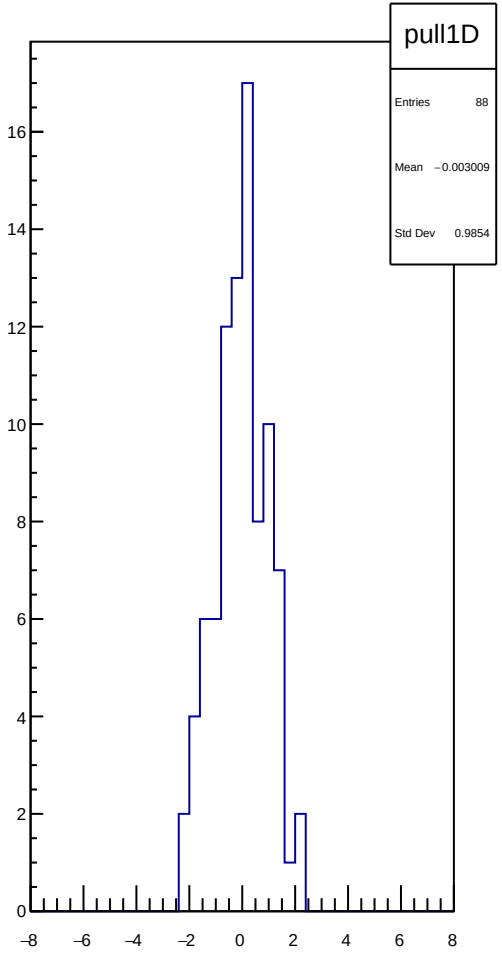

pull1D
Entries 88
Mean −0.05834
Std Dev 0.632

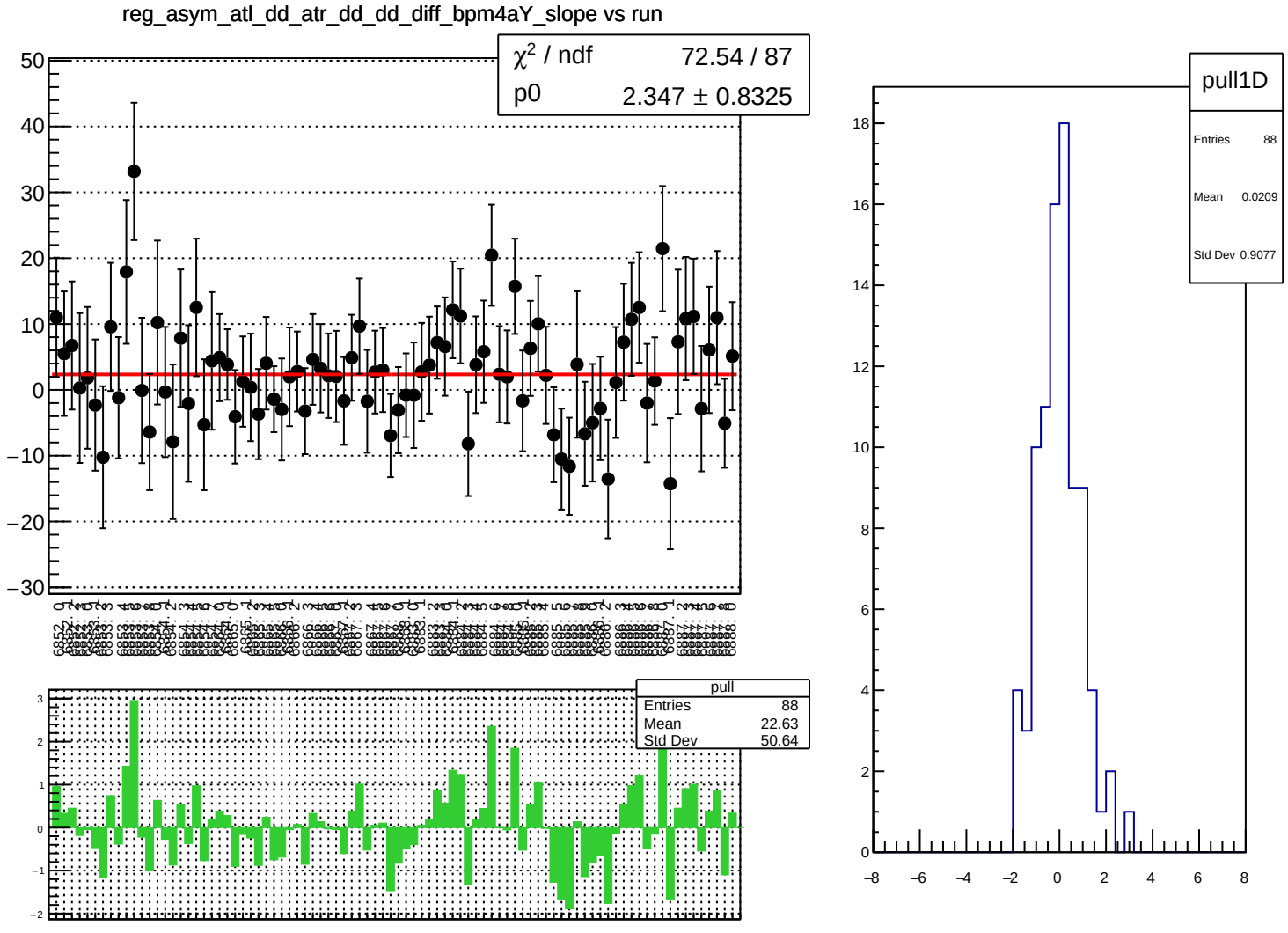

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.28 / 87
p0 −69.63 ± 3.018
pull
Entries 88
Mean 228.1
Std Dev 0

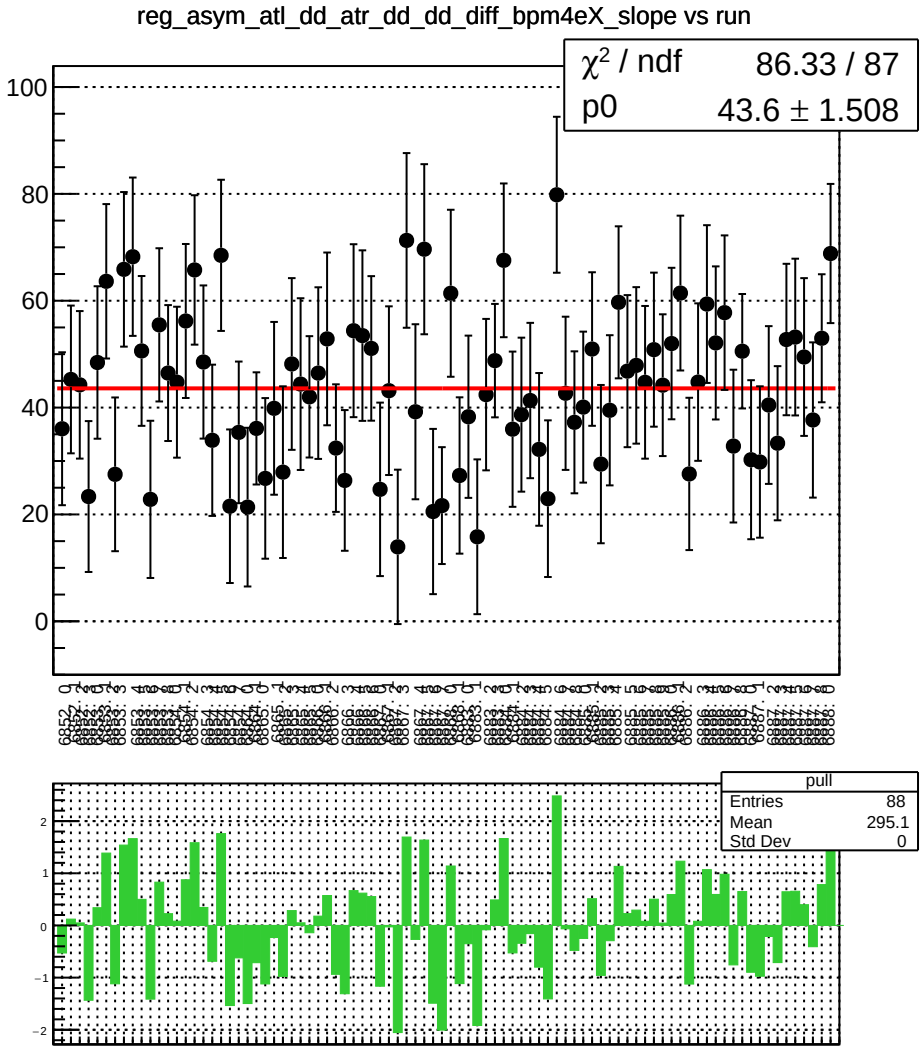

pull1D
Entries 88
Mean 0.01333
Std Dev 0.3415

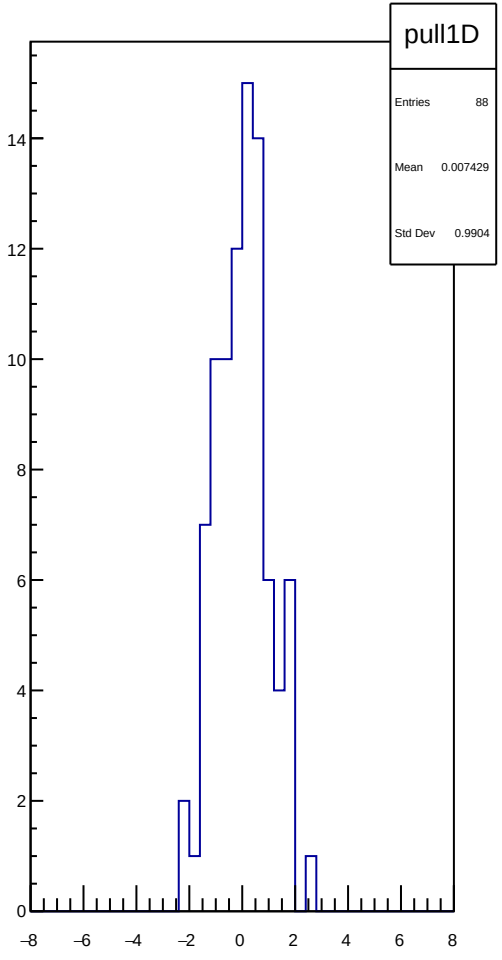

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 12.58 / 87
p0 123.1 ± 0.1695
pull
Entries 88
Mean 173.7
Std Dev 0
pull1D
Entries 88
Mean 0.03023
Std Dev 0.3769

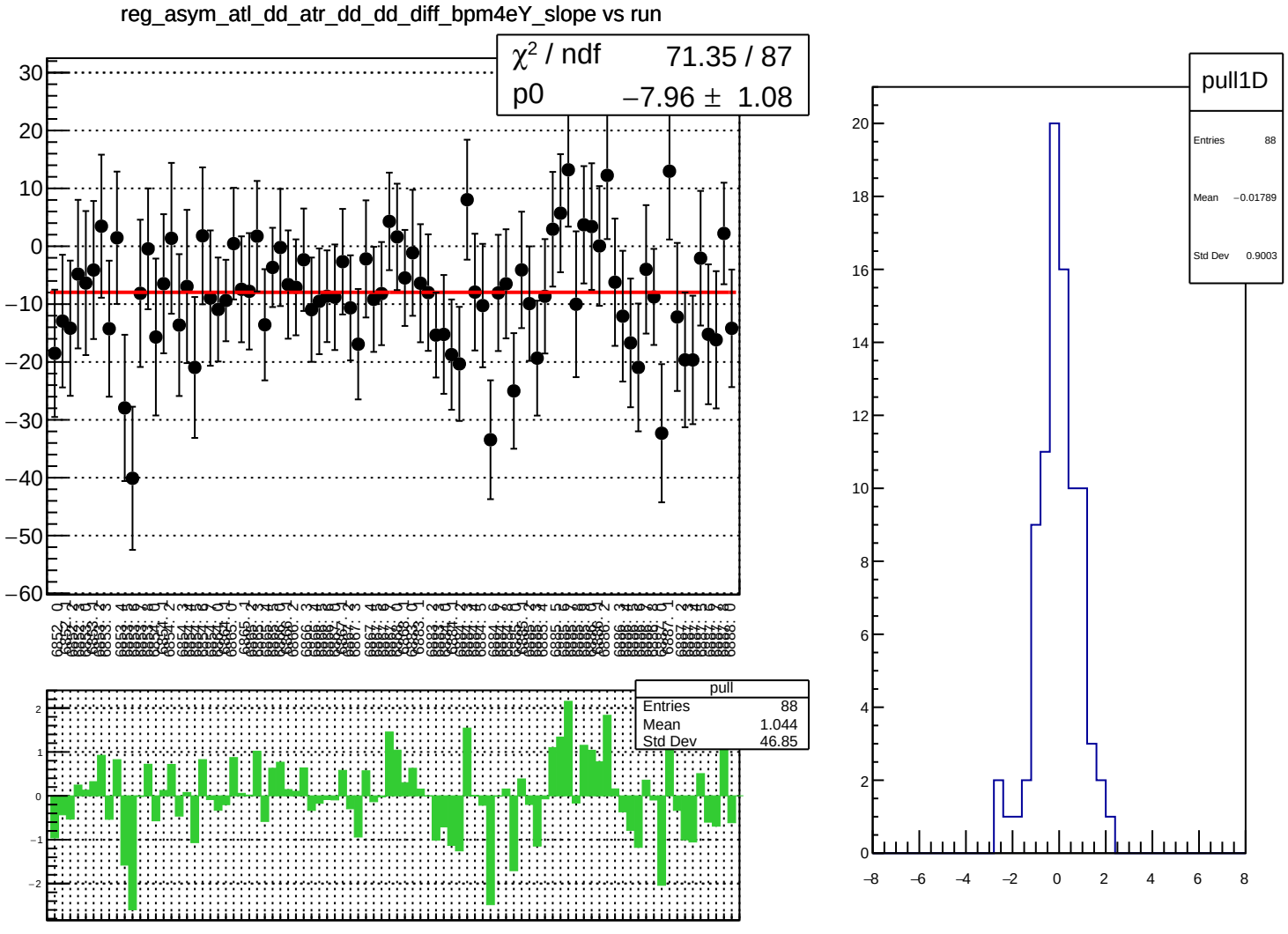

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 85.44 / 87
p0 23.57 ± 1.58
pull
Entries 88
Mean 937.6
Std Dev 0

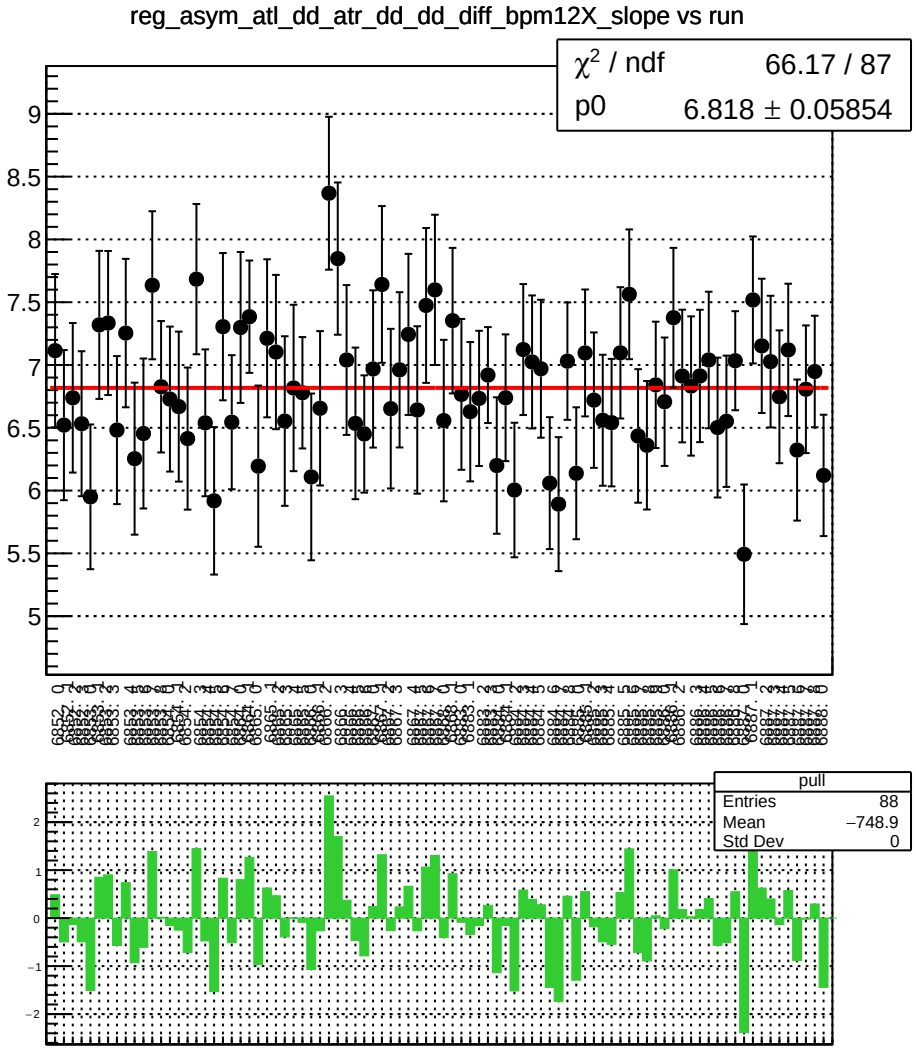

pull1D
Entries 88
Mean −0.003009
Std Dev 0.9854

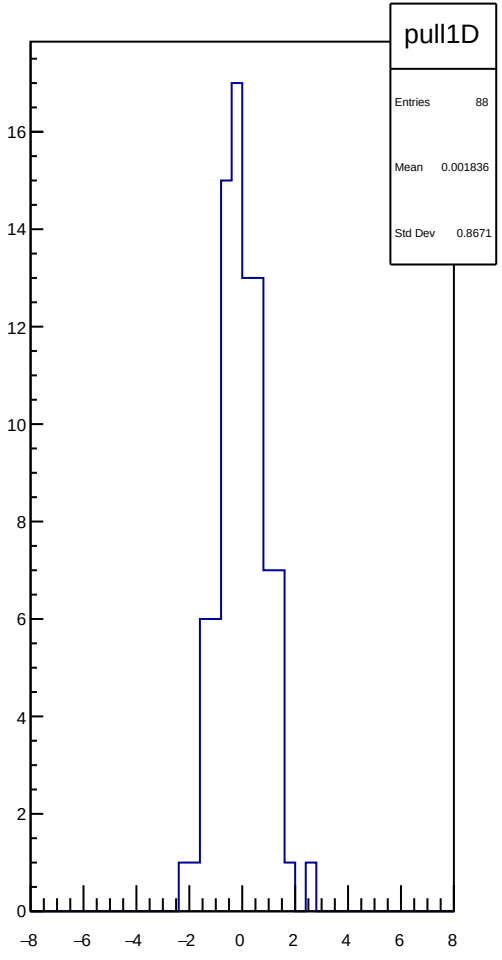

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.54 / 87
p0 2.347 ± 0.8325
pull
Entries 88
Mean 22.63
Std Dev 50.64
pull1D
Entries 88
Mean 0.0209
Std Dev 0.9077

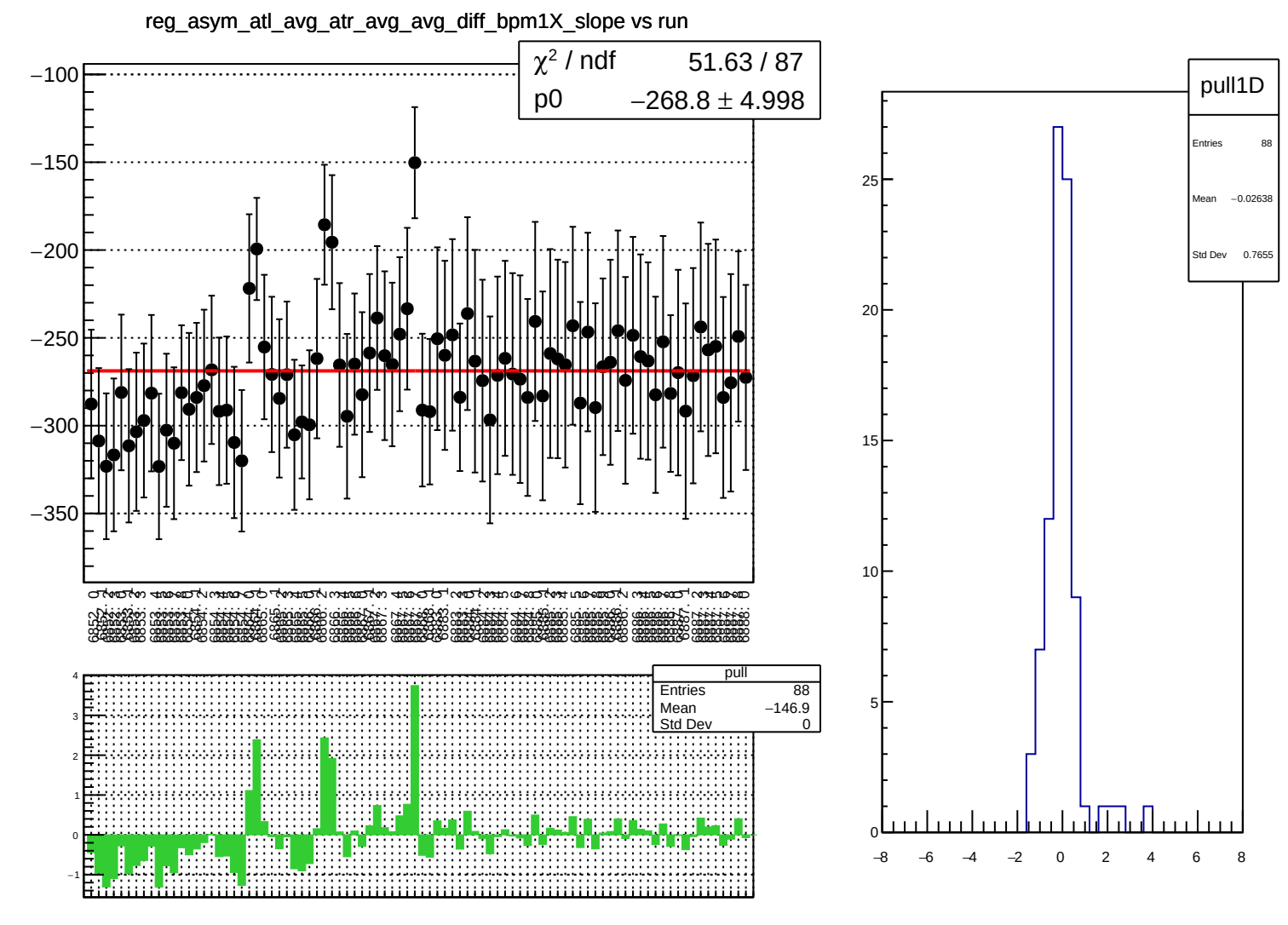

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.33 / 87
p0 43.6 ± 1.508
pull
Entries 88
Mean 295.1
Std Dev 0

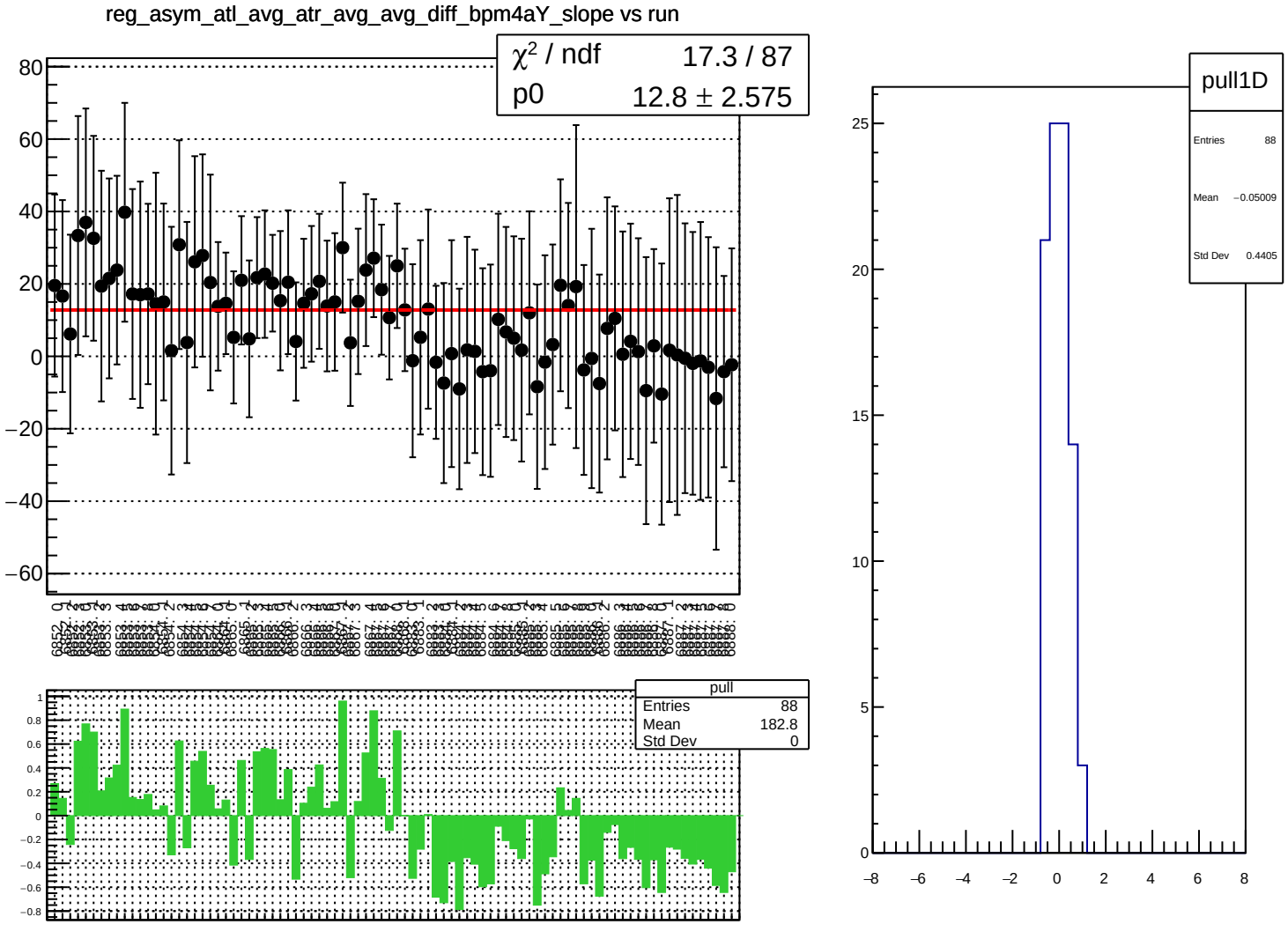

pull1D
Entries 88
Mean 0.007429
Std Dev 0.9904

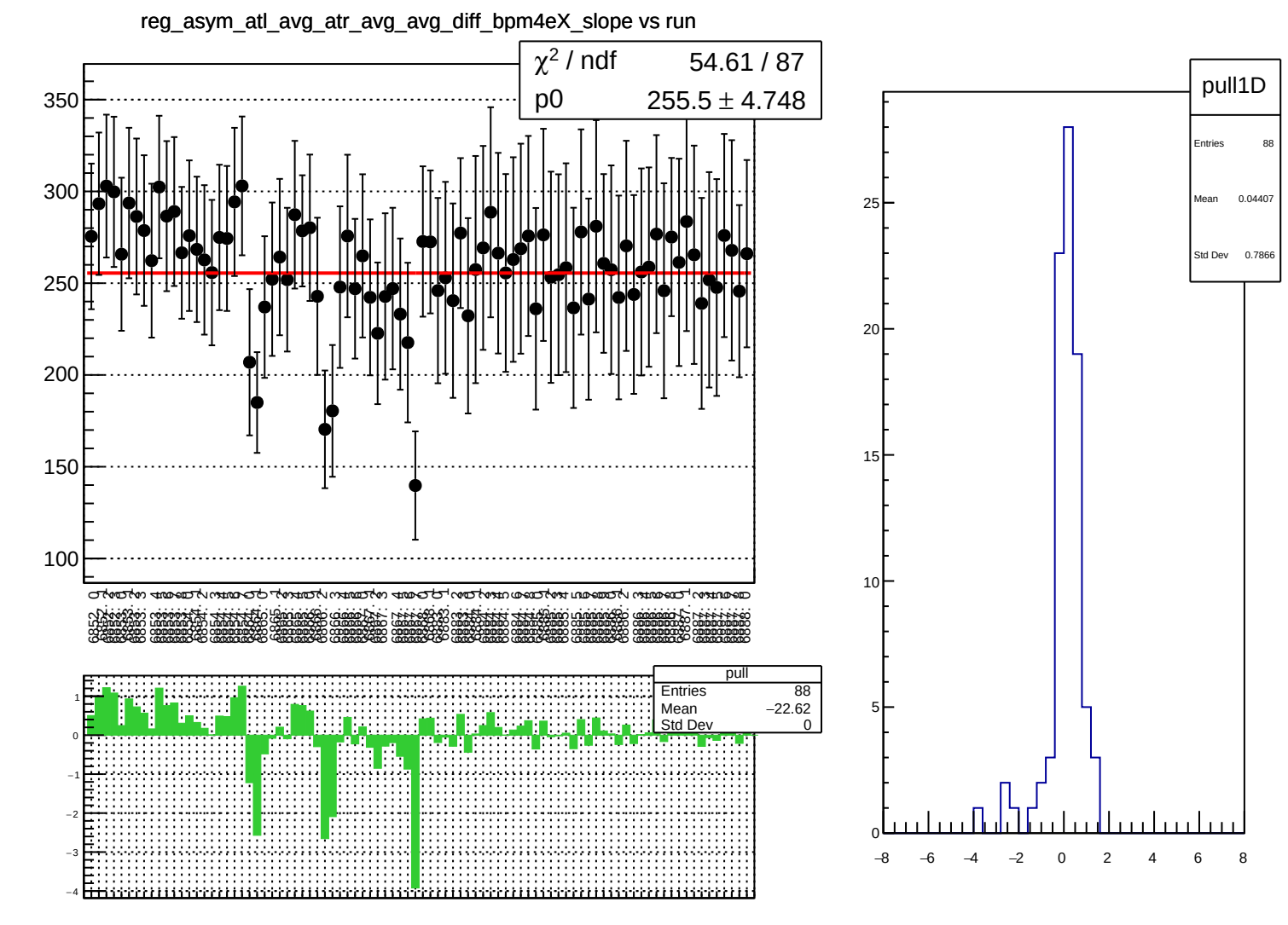

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.35 / 87
p0 −7.96 ± 1.08
pull
Entries 88
Mean 1.044
Std Dev 46.85
pull1D
Entries 88
Mean −0.01789
Std Dev 0.9003

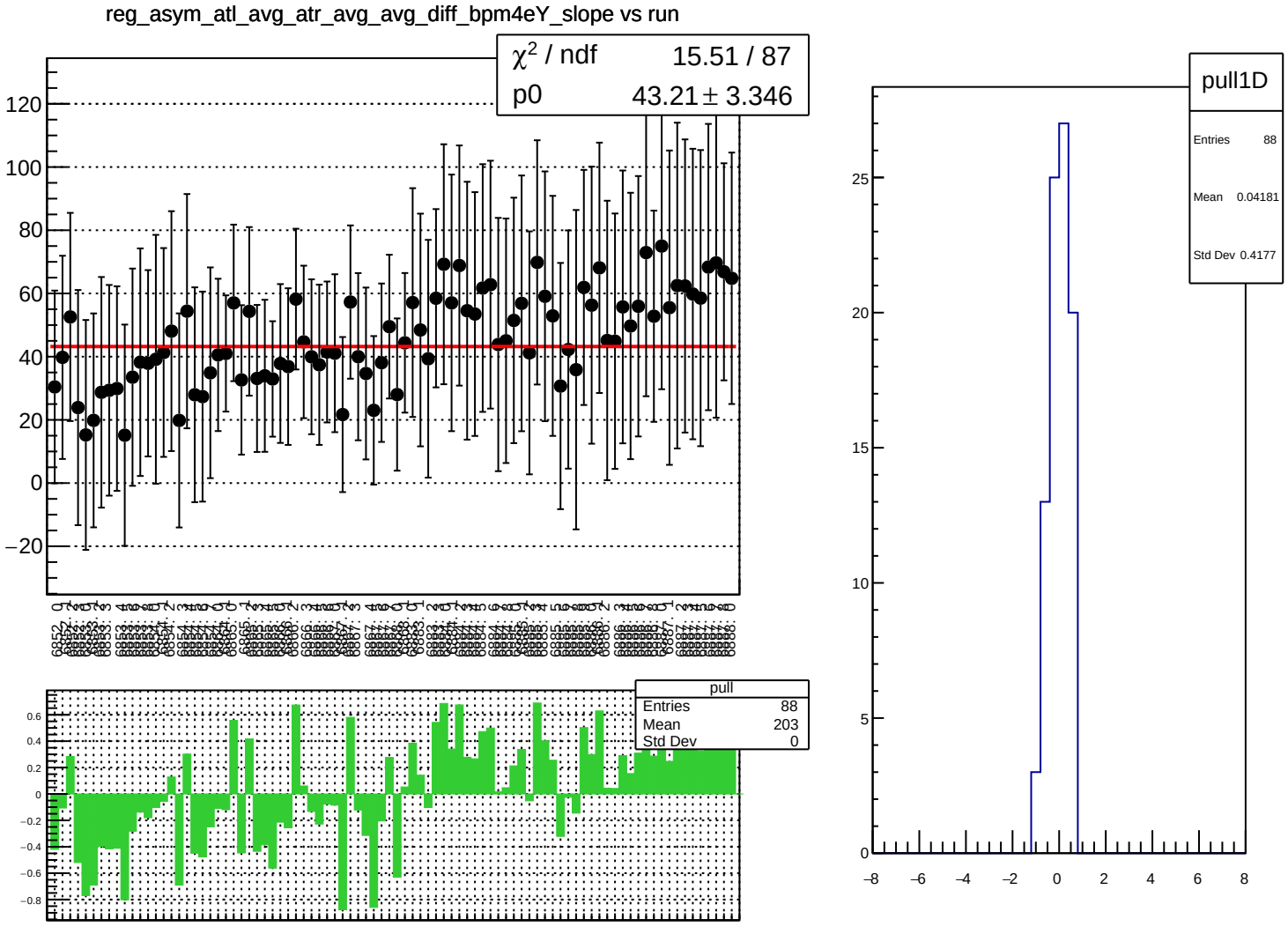

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 66.17 / 87
p0 6.818 ± 0.05854
pull
Entries 88
Mean −748.9
Std Dev 0

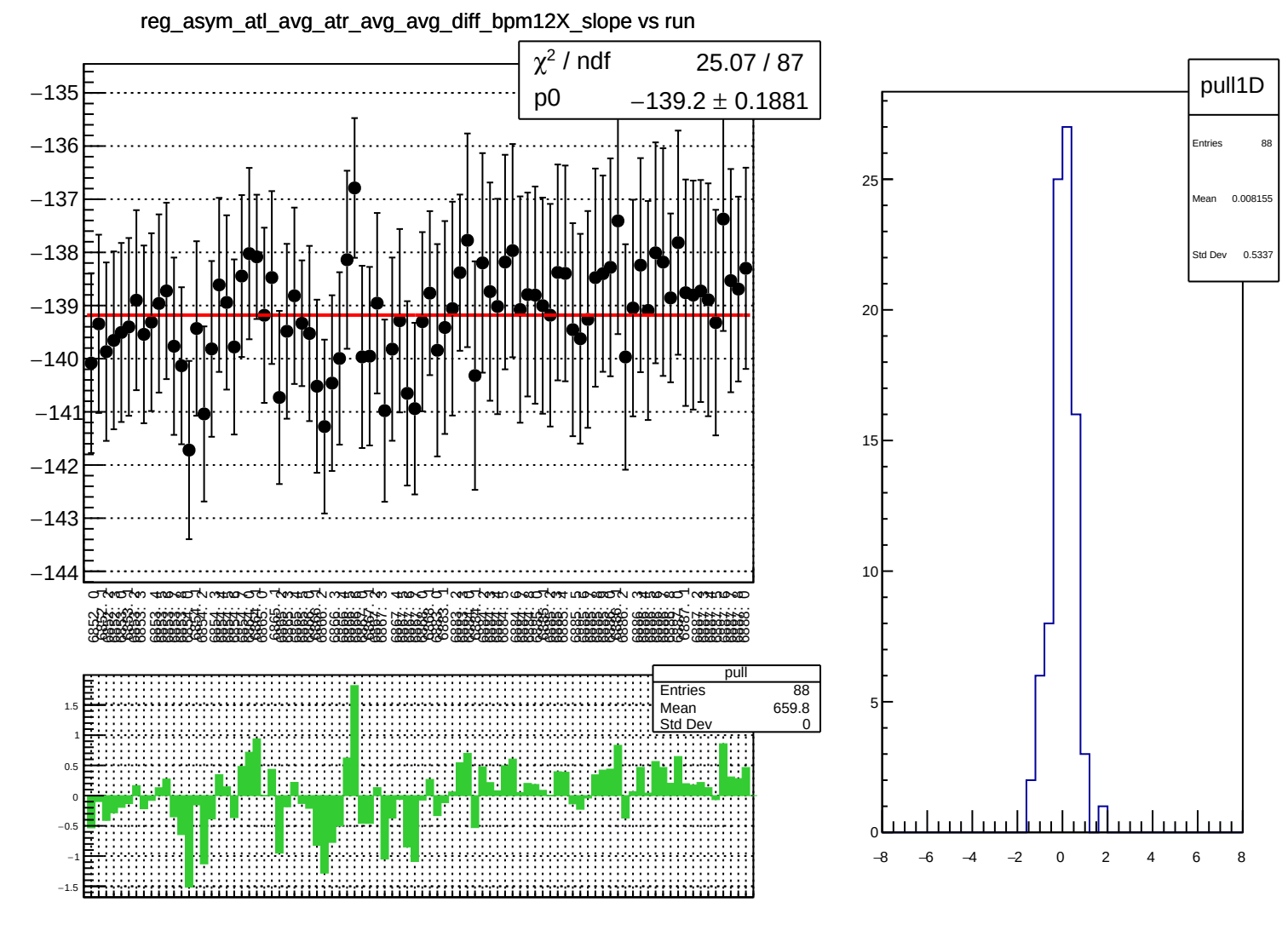

pull1D
Entries 88
Mean 0.001836
Std Dev 0.8671

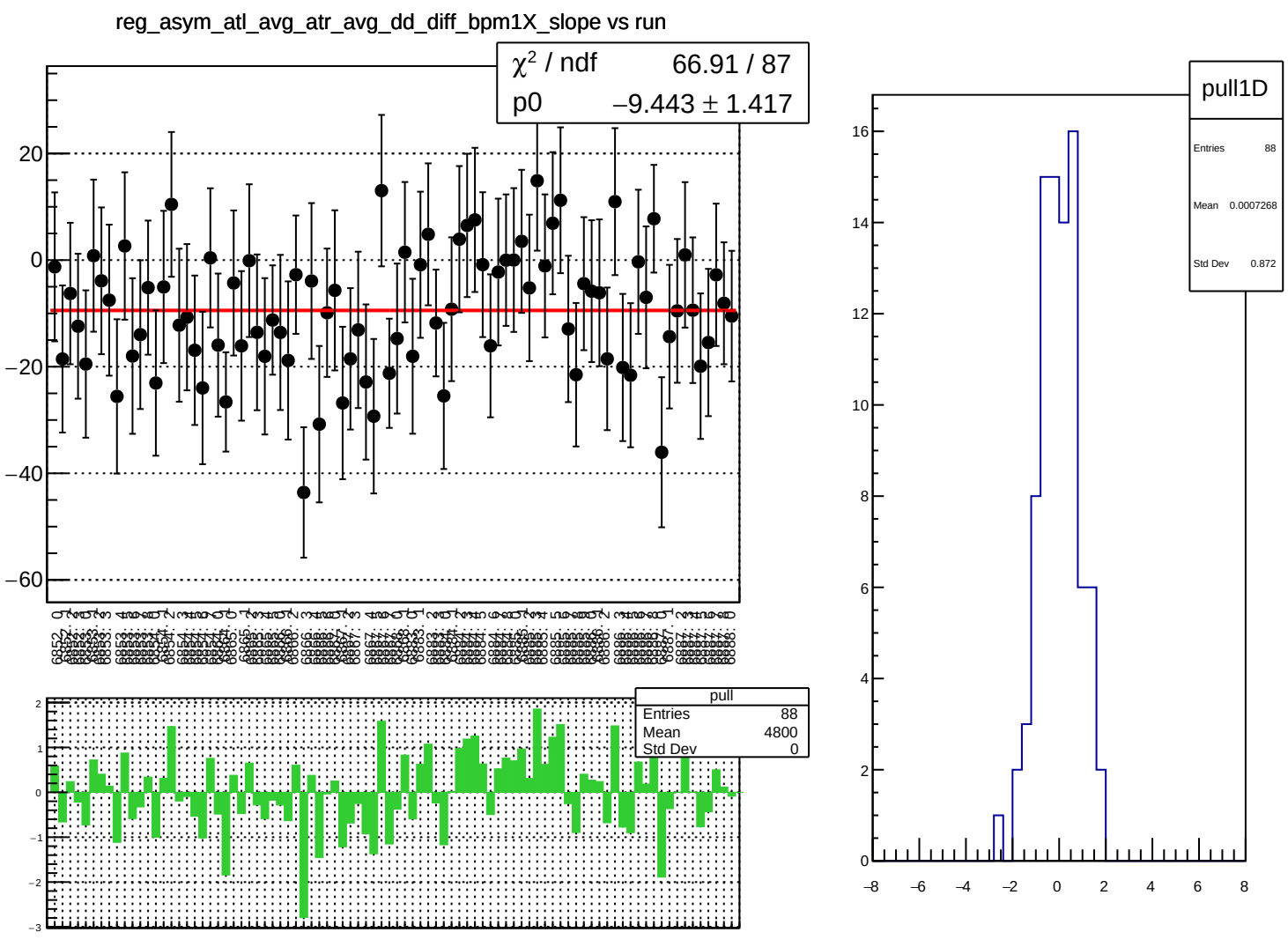

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 51.63 / 87
p0 −268.8 ± 4.998
−100
−150
−200
−250
−300
−350
pull
Entries 88
Mean −146.9
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 88
Mean −0.02638
Std Dev 0.7655
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

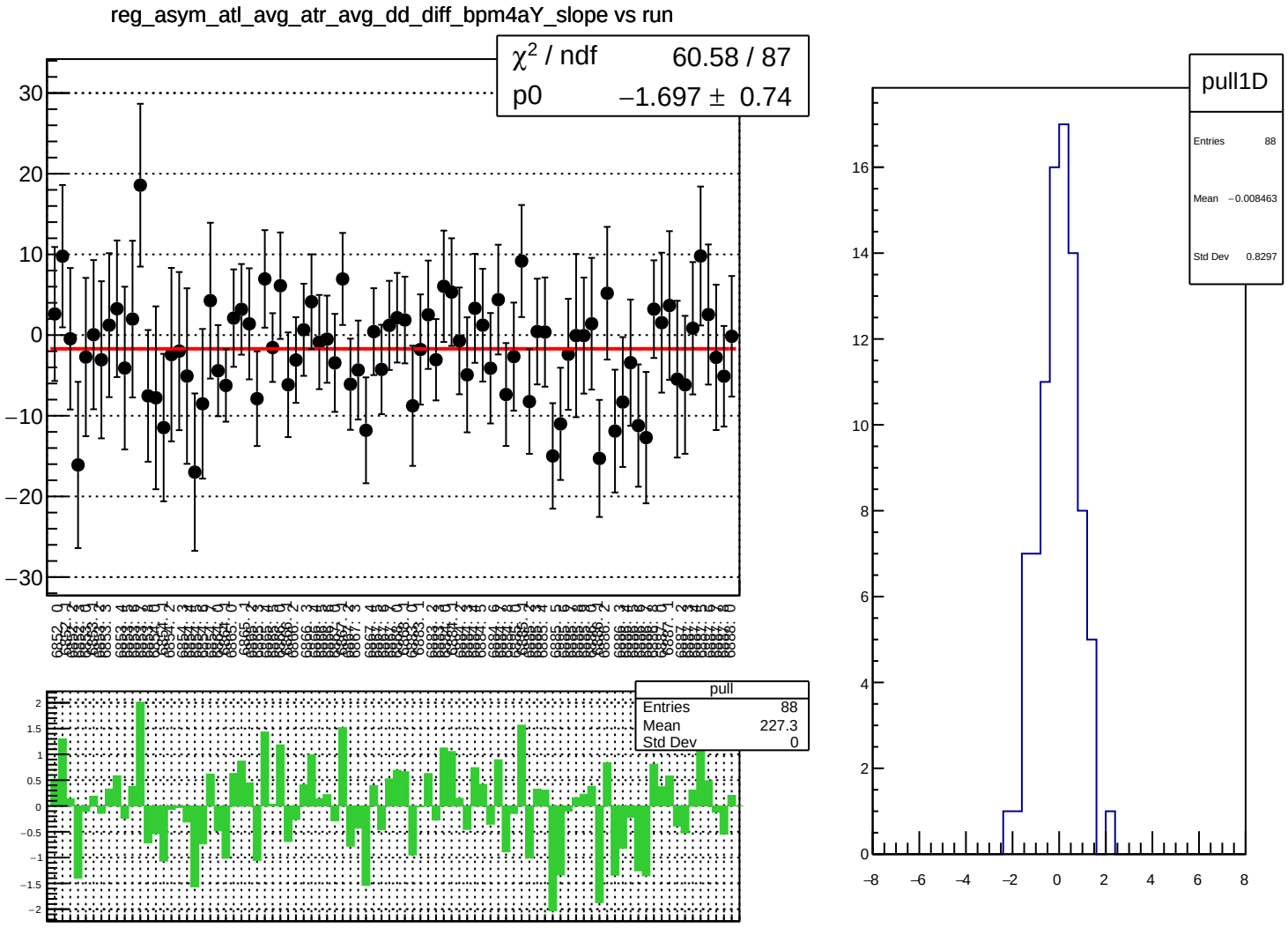

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.3 / 87
p0 12.8 ± 2.575
pull
Entries 88
Mean 182.8
Std Dev 0
pull1D
Entries 88
Mean −0.05009
Std Dev 0.4405

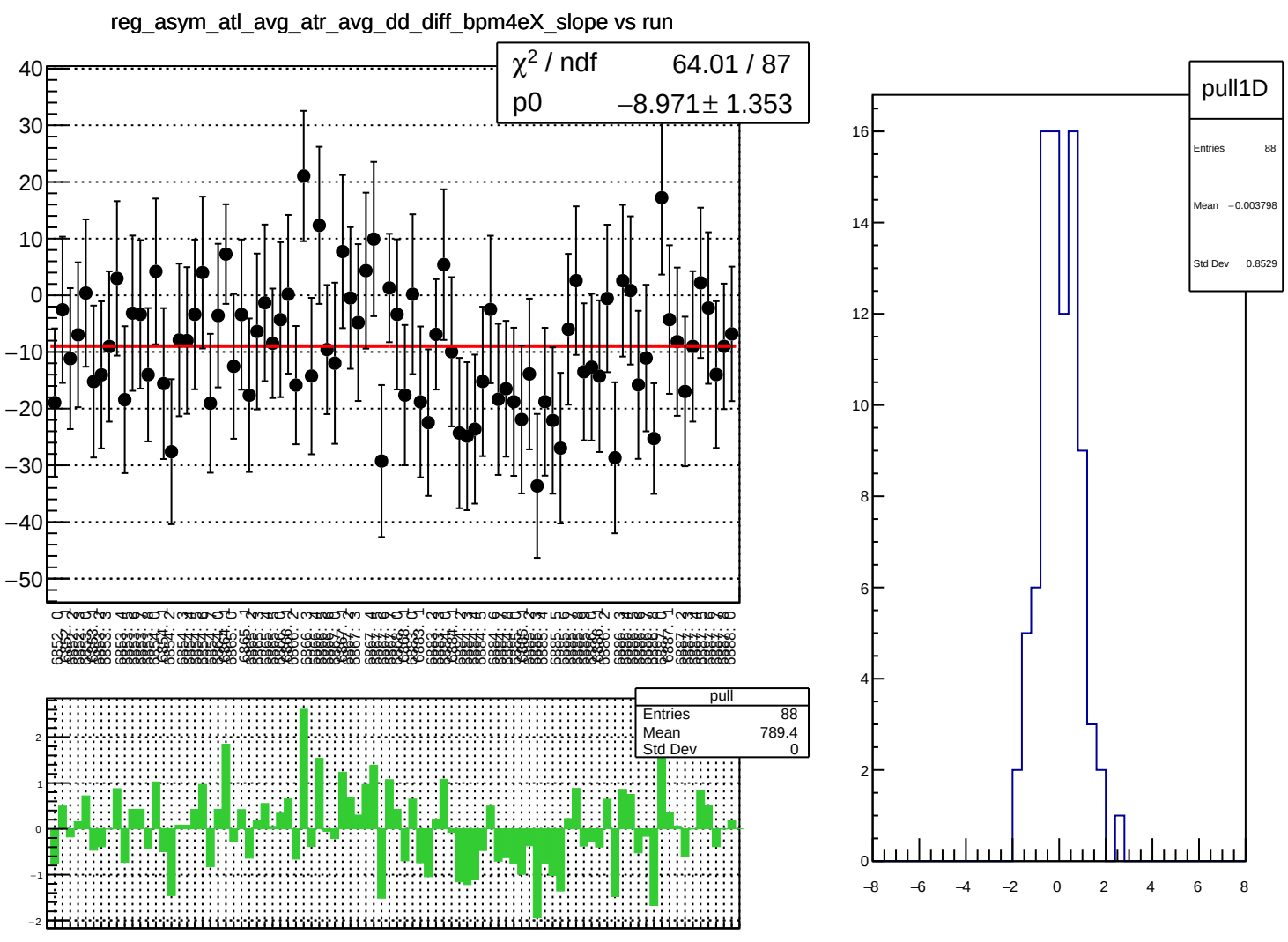

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.61 / 87
p0 255.5 ± 4.748
350
300
250
200
150
100
pull
Entries 88
Mean −22.62
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean 0.04407
Std Dev 0.7866
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

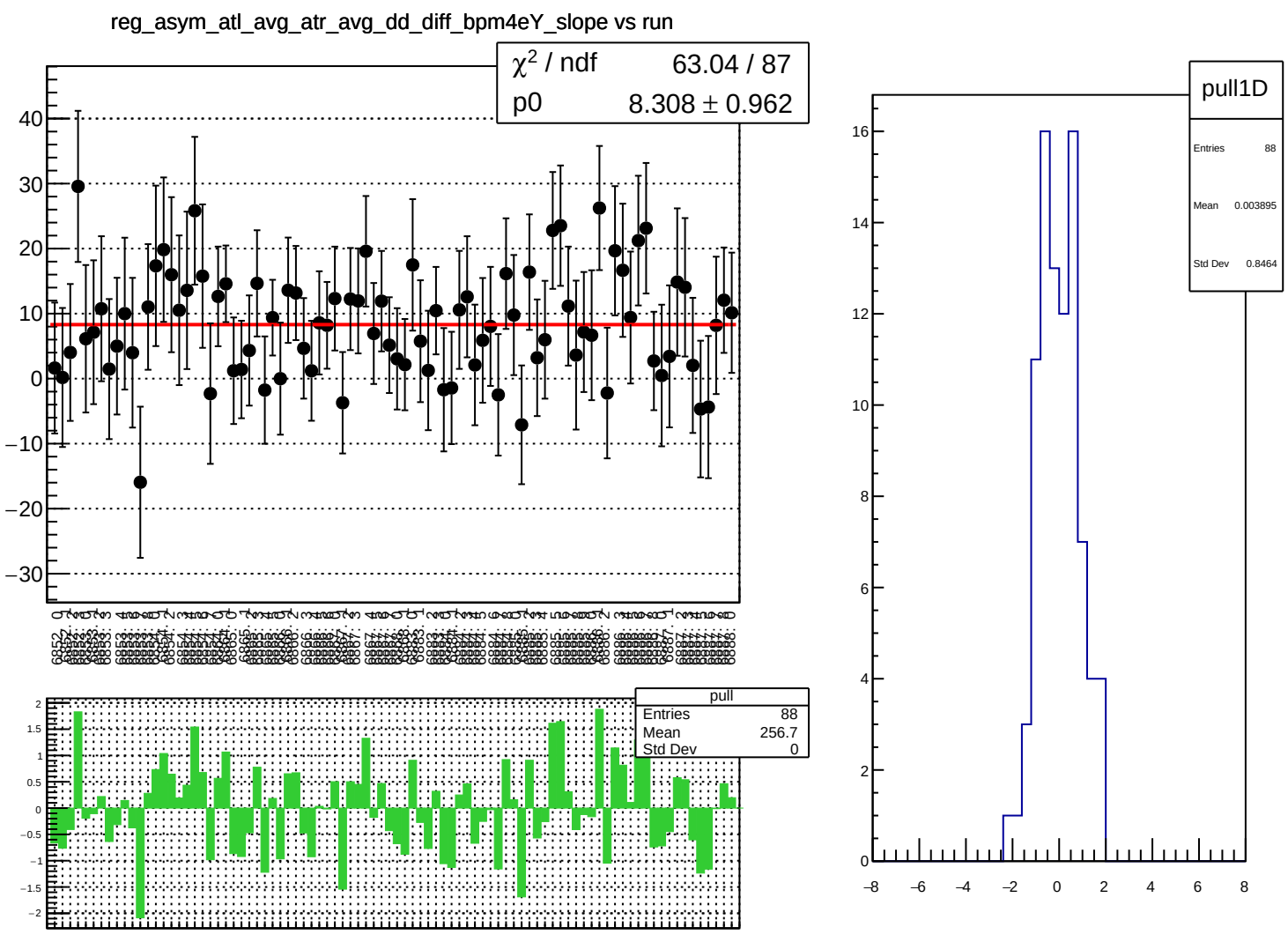

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.51 / 87
p0 43.21 ± 3.346
pull
Entries 88
Mean 203
Std Dev 0
pull1D
Entries 88
Mean 0.04181
Std Dev 0.4177

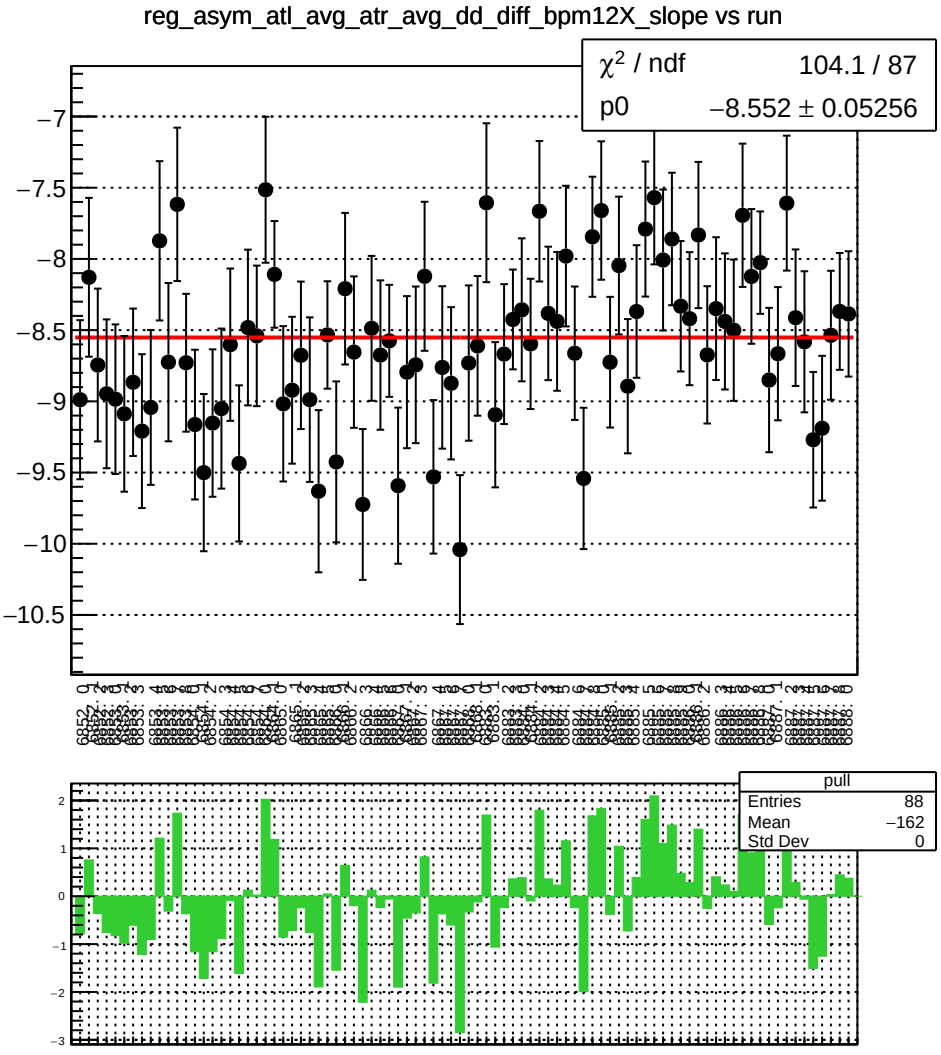

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 25.07 / 87
p0 −139.2 ± 0.1881
pull
Entries 88
Mean 659.8
Std Dev 0
pull1D
Entries 88
Mean 0.008155
Std Dev 0.5337

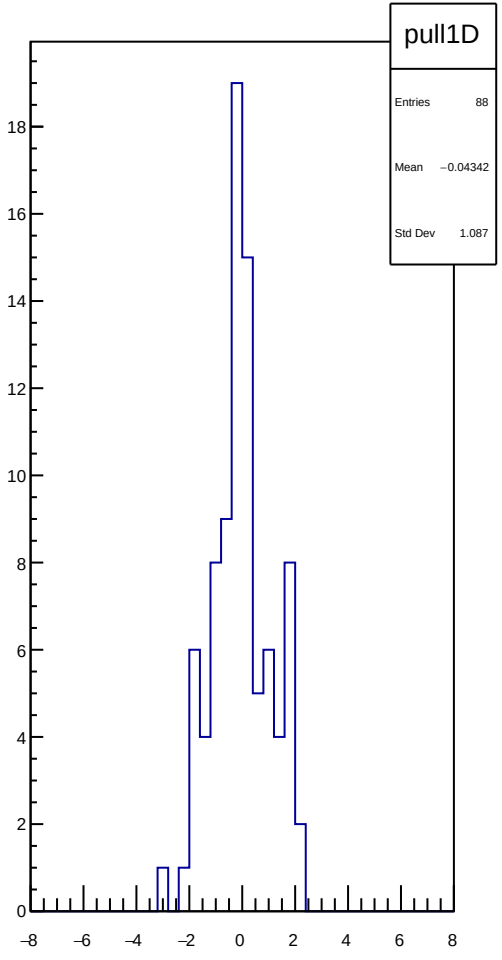

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 66.91 / 87
p0 −9.443 ± 1.417
20
0
−20
−40
−60
pull
Entries 88
Mean 4800
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.0007268
Std Dev 0.872
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

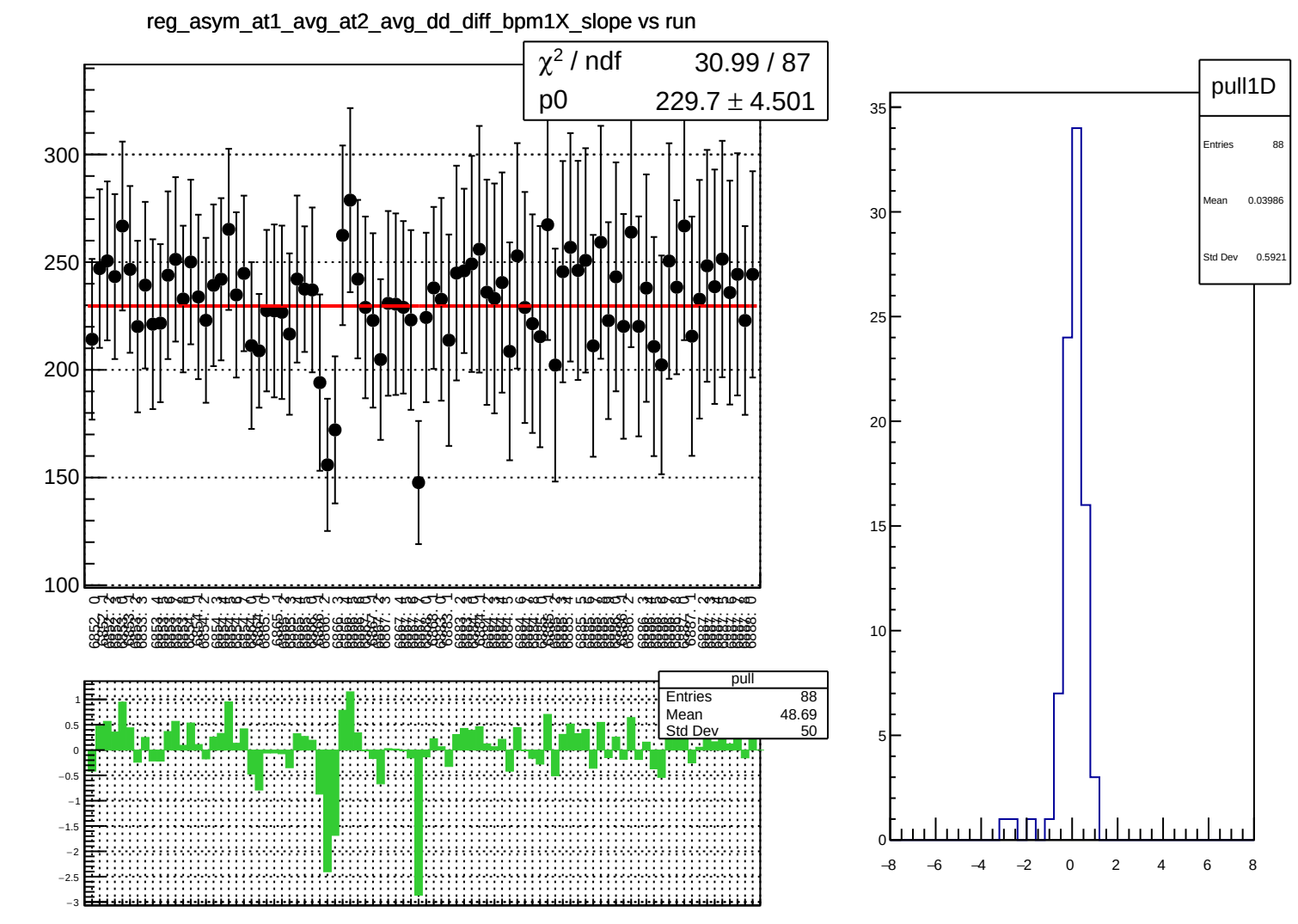

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.58 / 87
p0 −1.697 ± 0.74
pull
Entries 88
Mean 227.3
Std Dev 0
pull1D
Entries 88
Mean −0.008463
Std Dev 0.8297

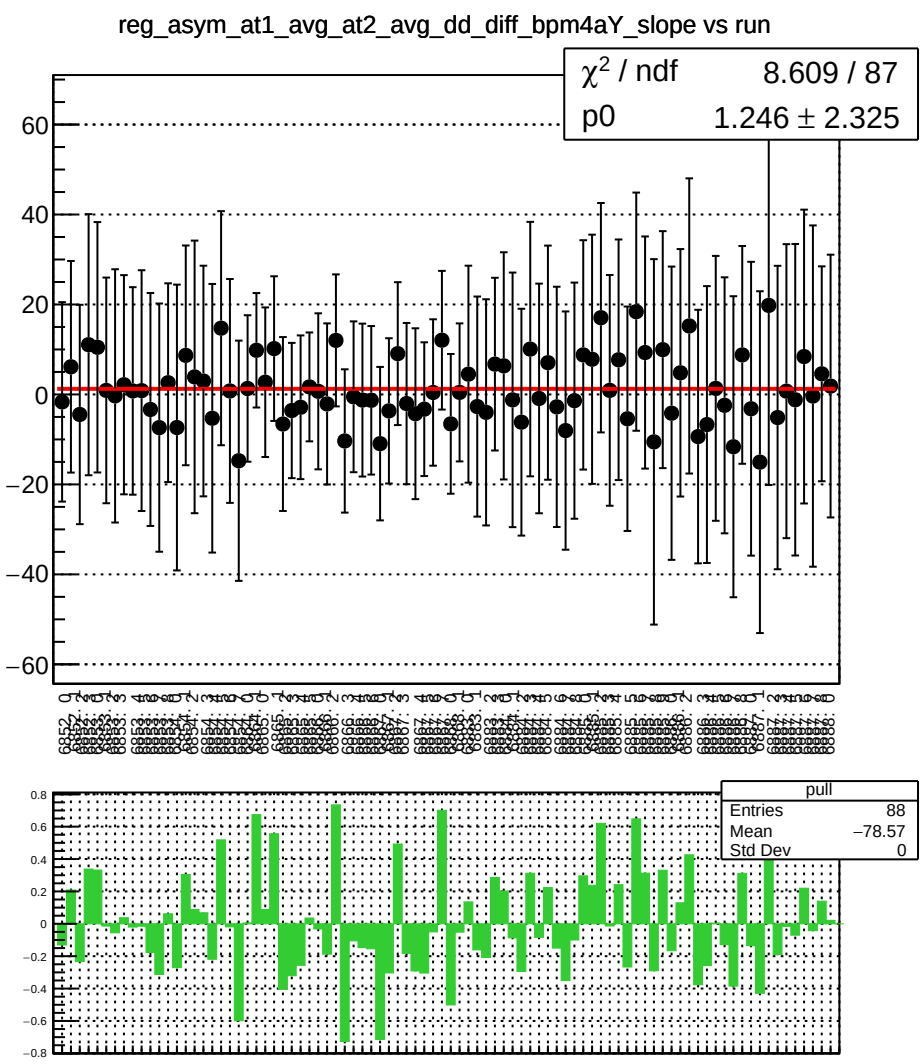

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.01 / 87
p0 −8.971± 1.353
pull
Entries 88
Mean 789.4
Std Dev 0
pull1D
Entries 88
Mean −0.003798
Std Dev 0.8529

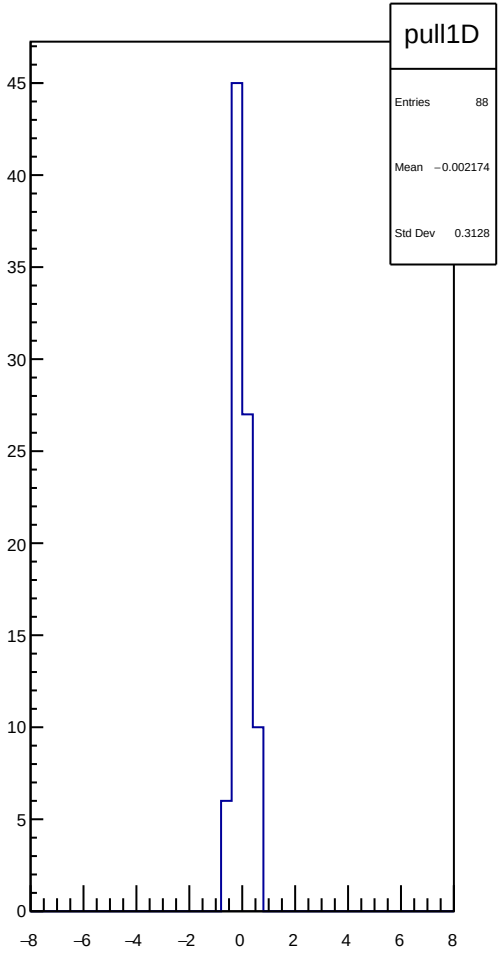

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.04 / 87
p0 8.308 ± 0.962
pull
Entries 88
Mean 256.7
Std Dev 0
pull1D
Entries 88
Mean 0.003895
Std Dev 0.8464

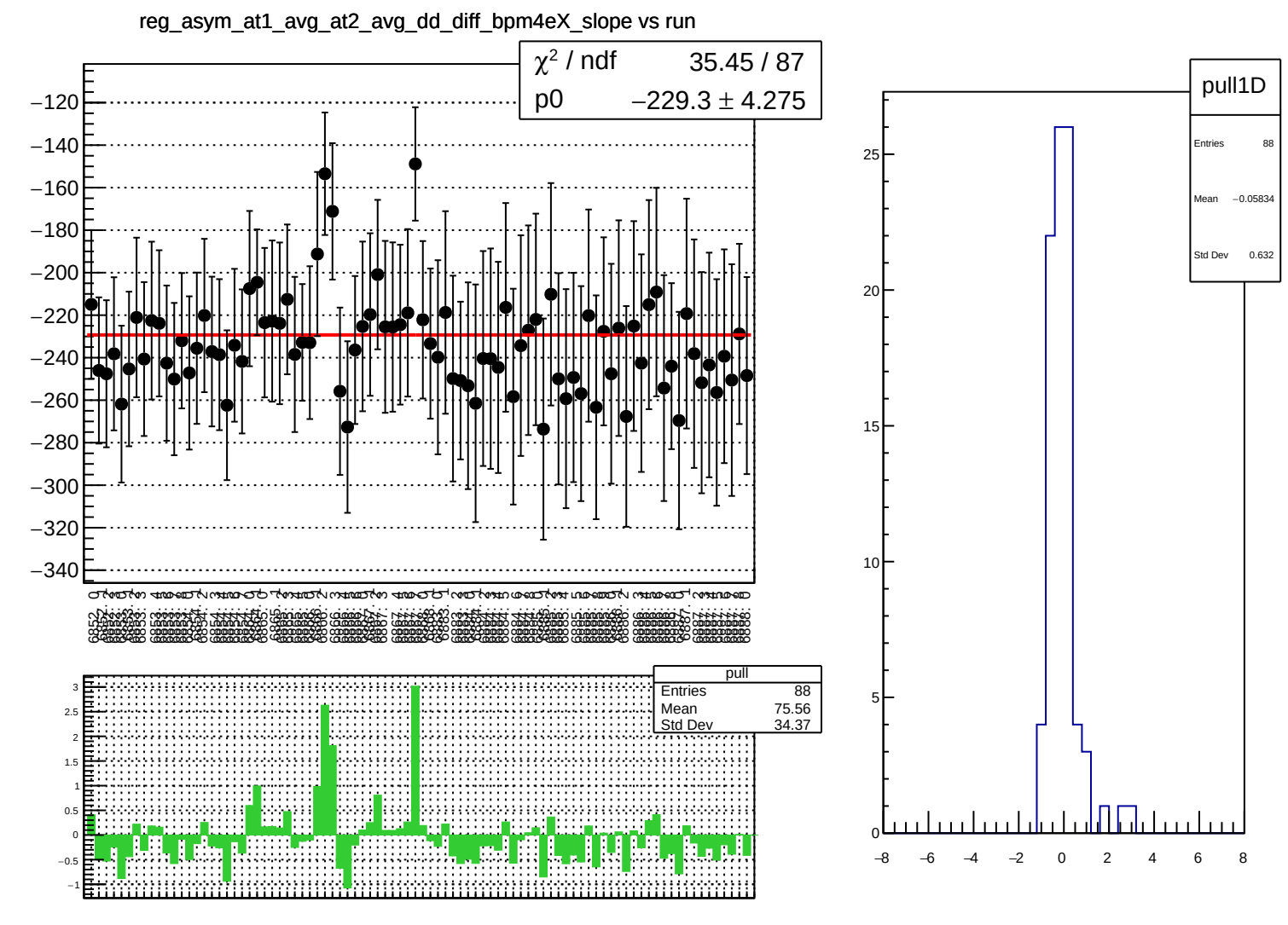

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 104.1 / 87
p0 −8.552 ± 0.05256
pull
Entries 88
Mean −162
Std Dev 0

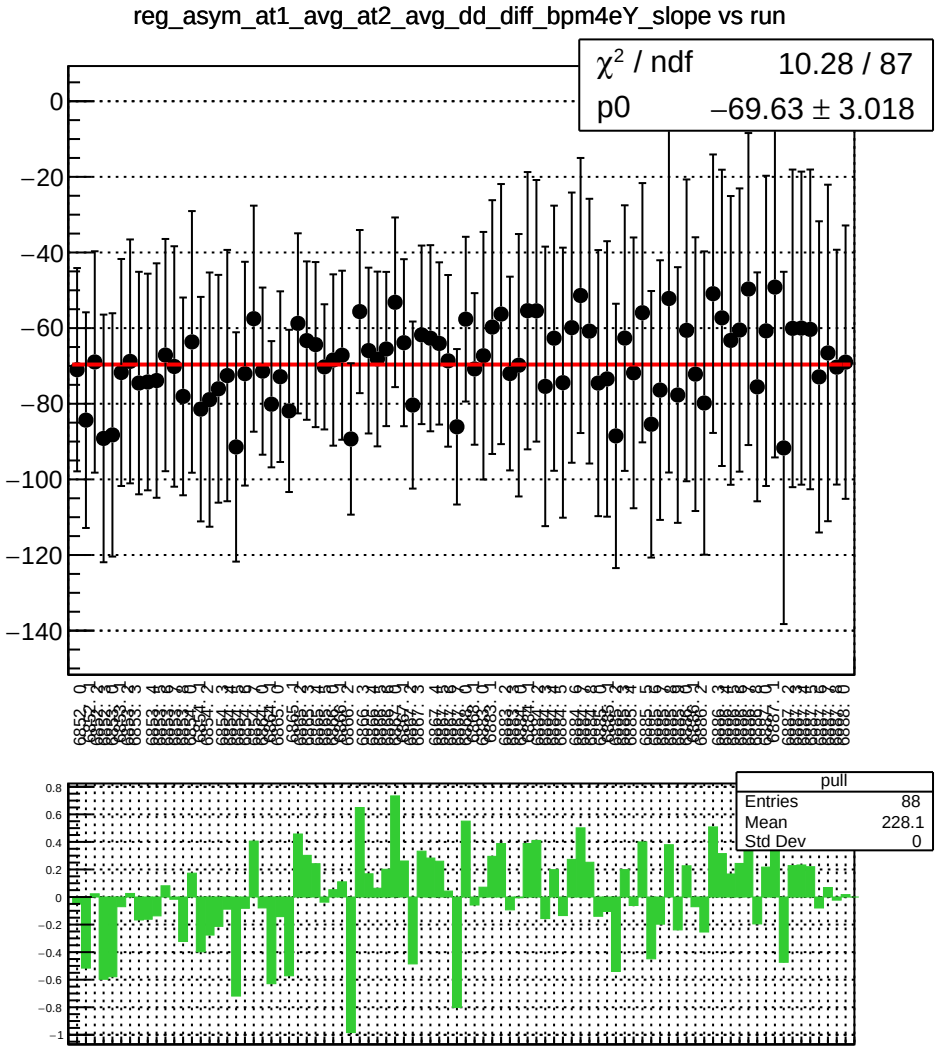

pull1D
Entries 88
Mean −0.04342
Std Dev 1.087

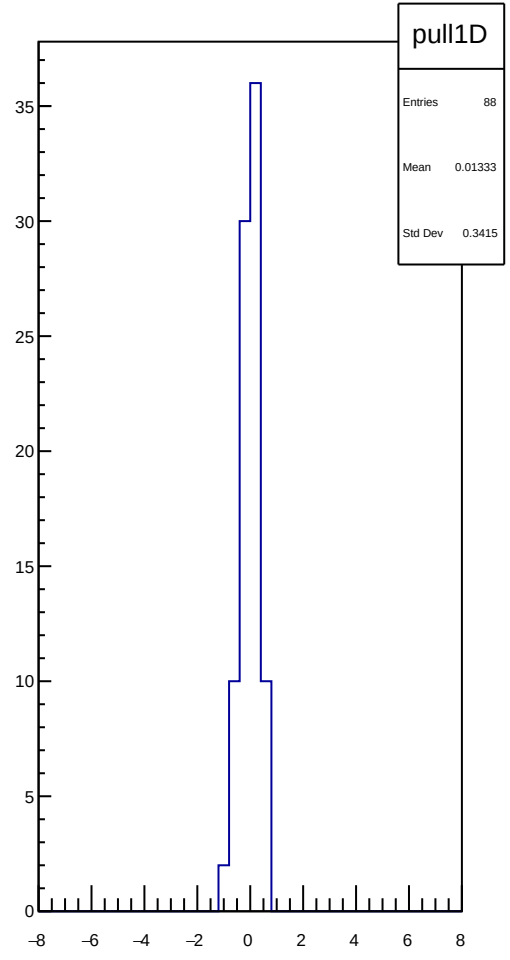

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 30.99 / 87
p0 229.7 ± 4.501
300
250
200
150
100
pull
Entries 88
Mean 48.69
Std Dev 50
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 88
Mean 0.03986
Std Dev 0.5921
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

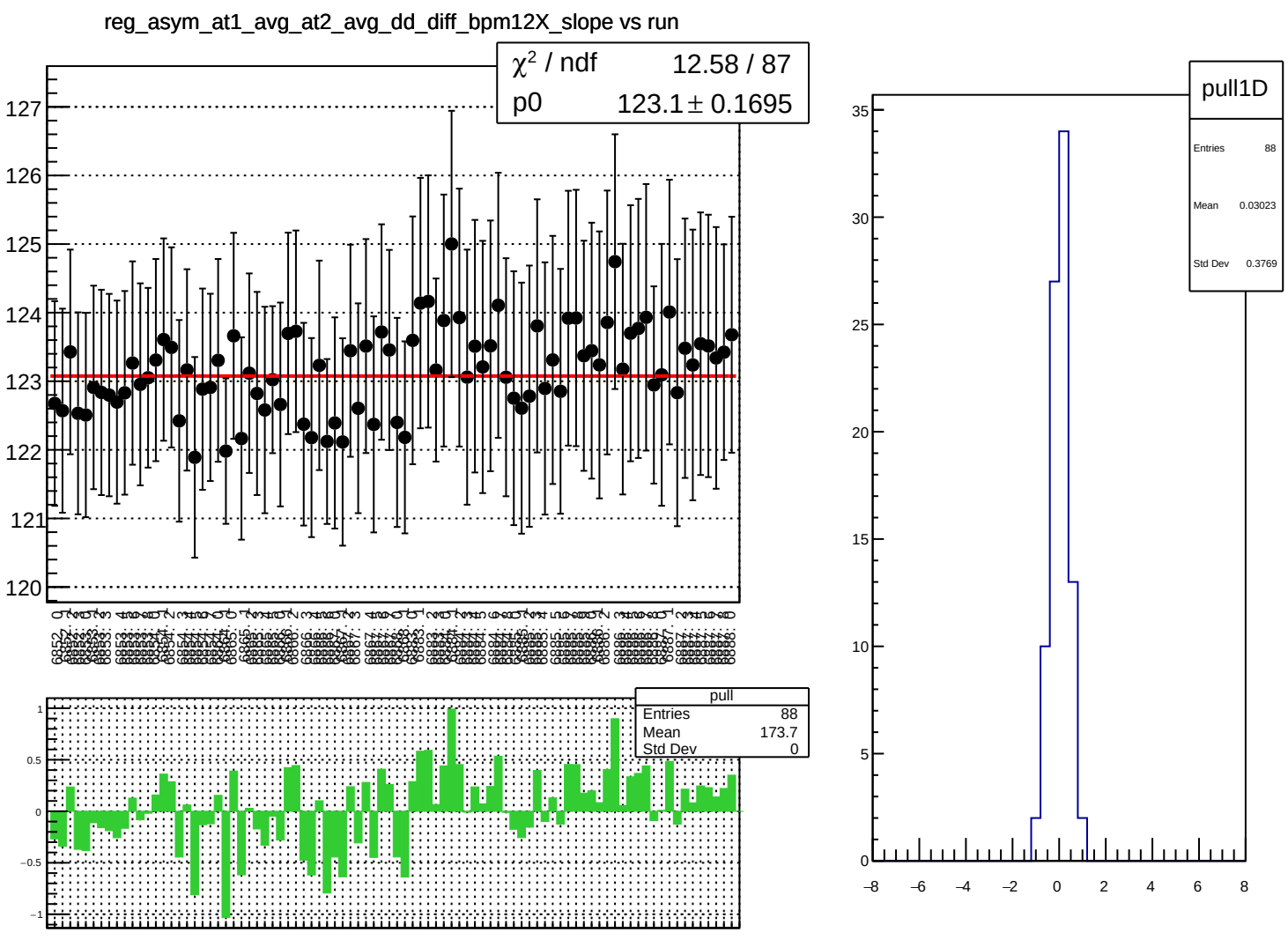

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.609 / 87
p0 1.246 ± 2.325
pull
Entries 88
Mean −78.57
Std Dev 0

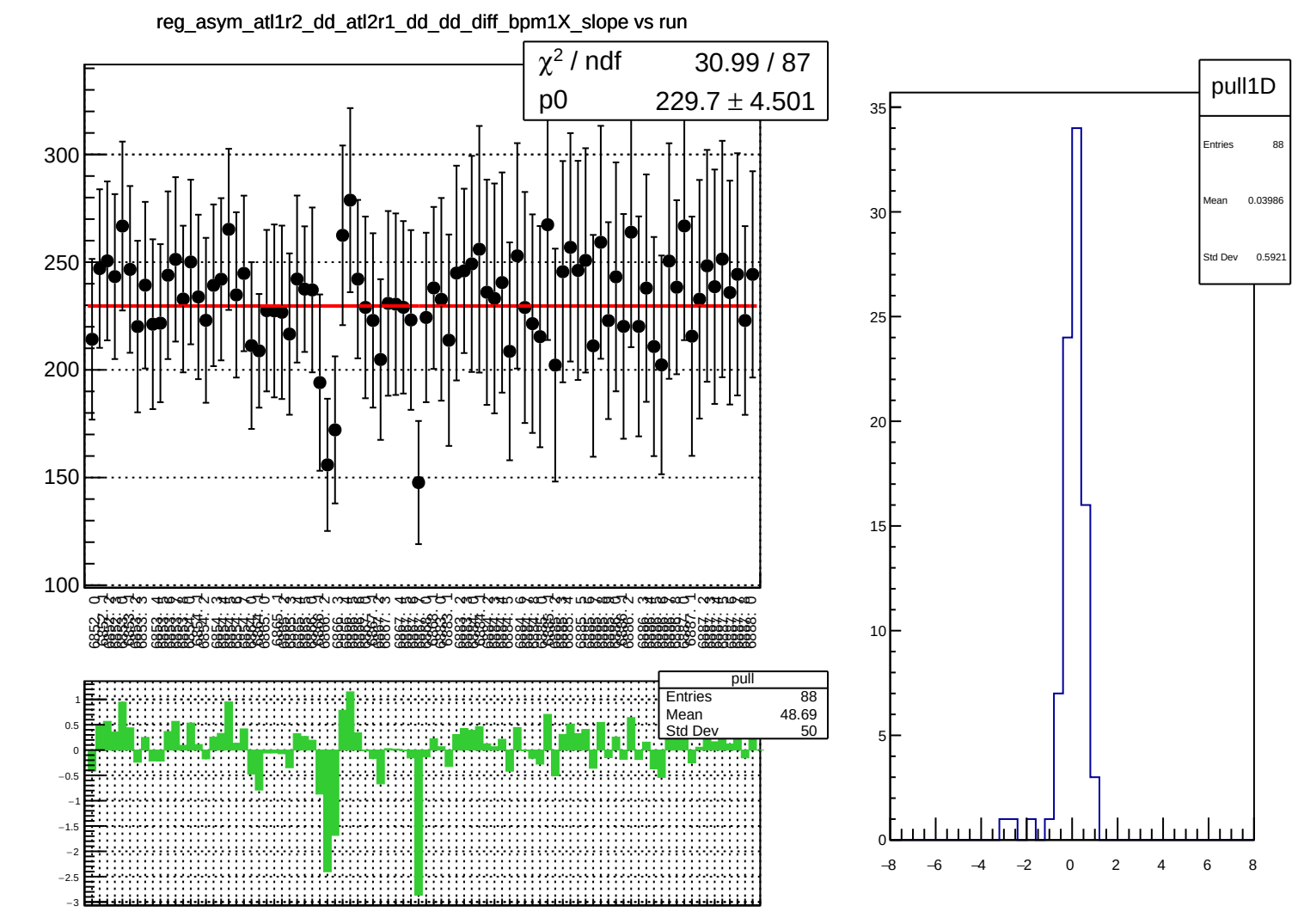

pull1D
Entries 88
Mean −0.002174
Std Dev 0.3128

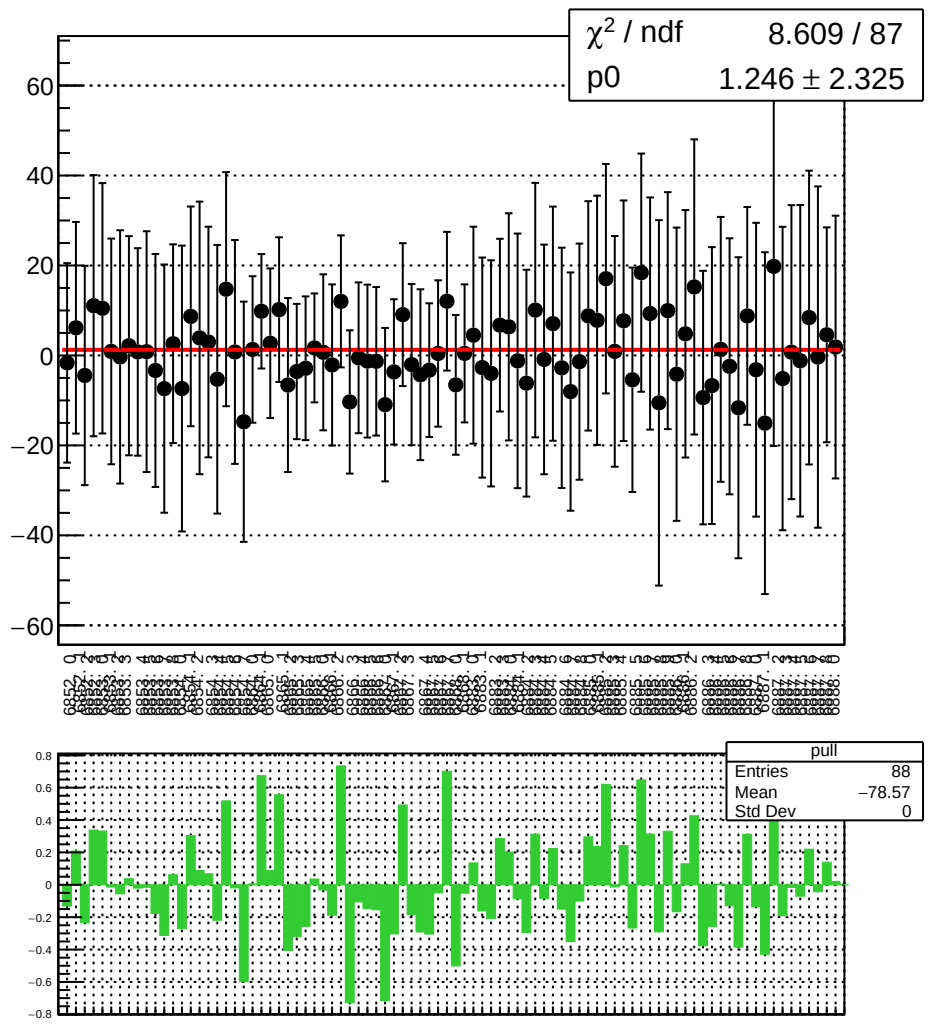

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.45 / 87
p0 −229.3 ± 4.275
pull
Entries 88
Mean 75.56
Std Dev 34.37
pull1D
Entries 88
Mean −0.05834
Std Dev 0.632

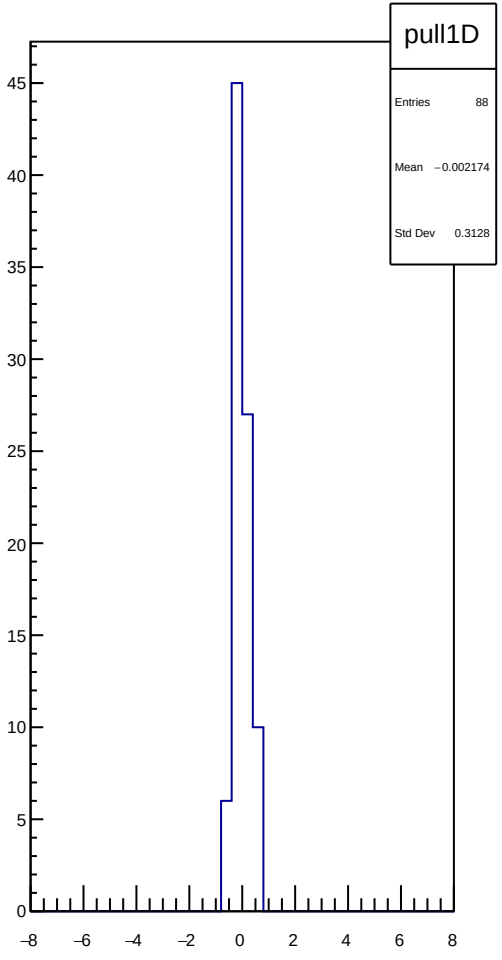

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.28 / 87
p0 −69.63 ± 3.018
pull
Entries 88
Mean 228.1
Std Dev 0

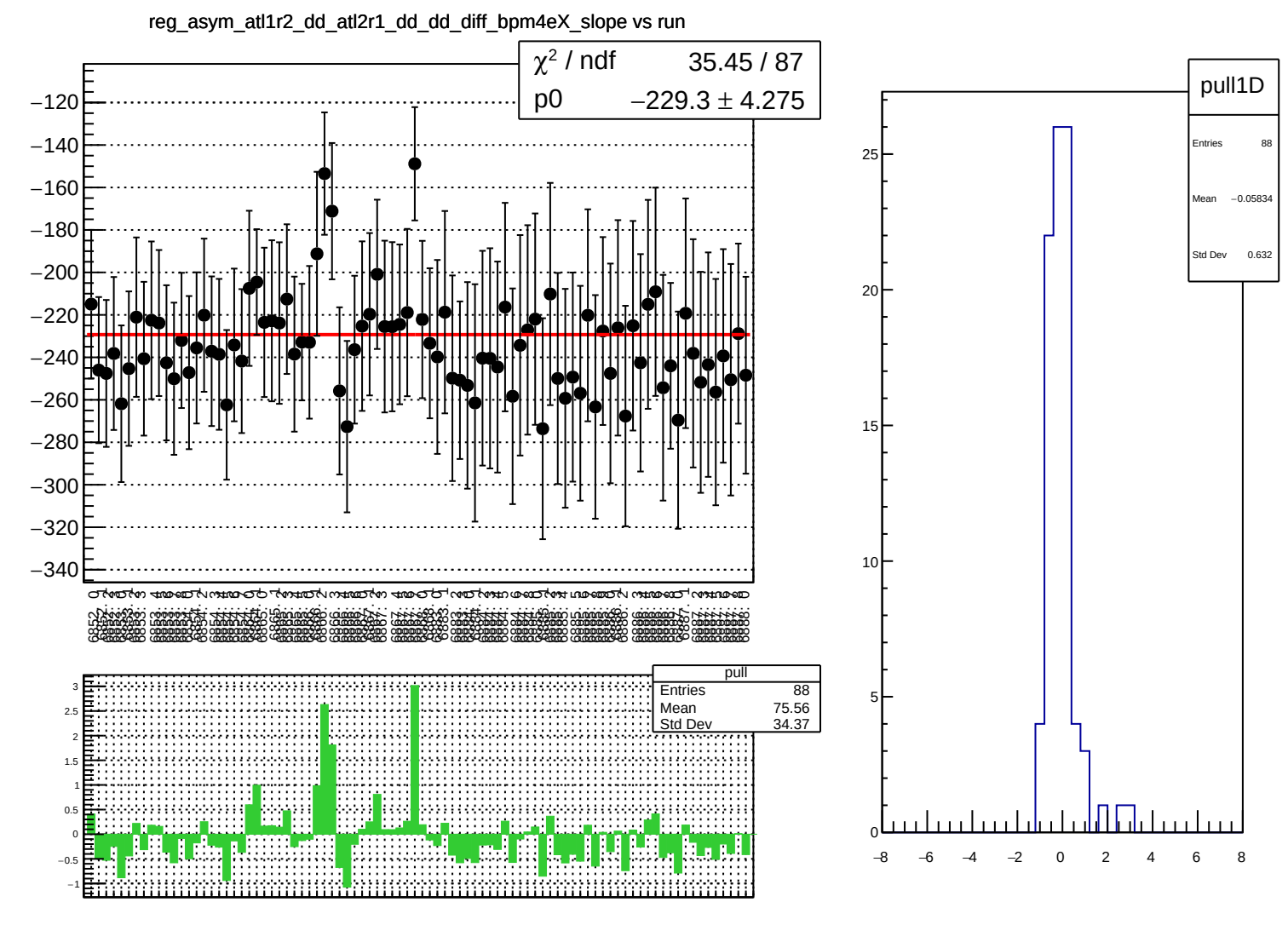

pull1D
Entries 88
Mean 0.01333
Std Dev 0.3415

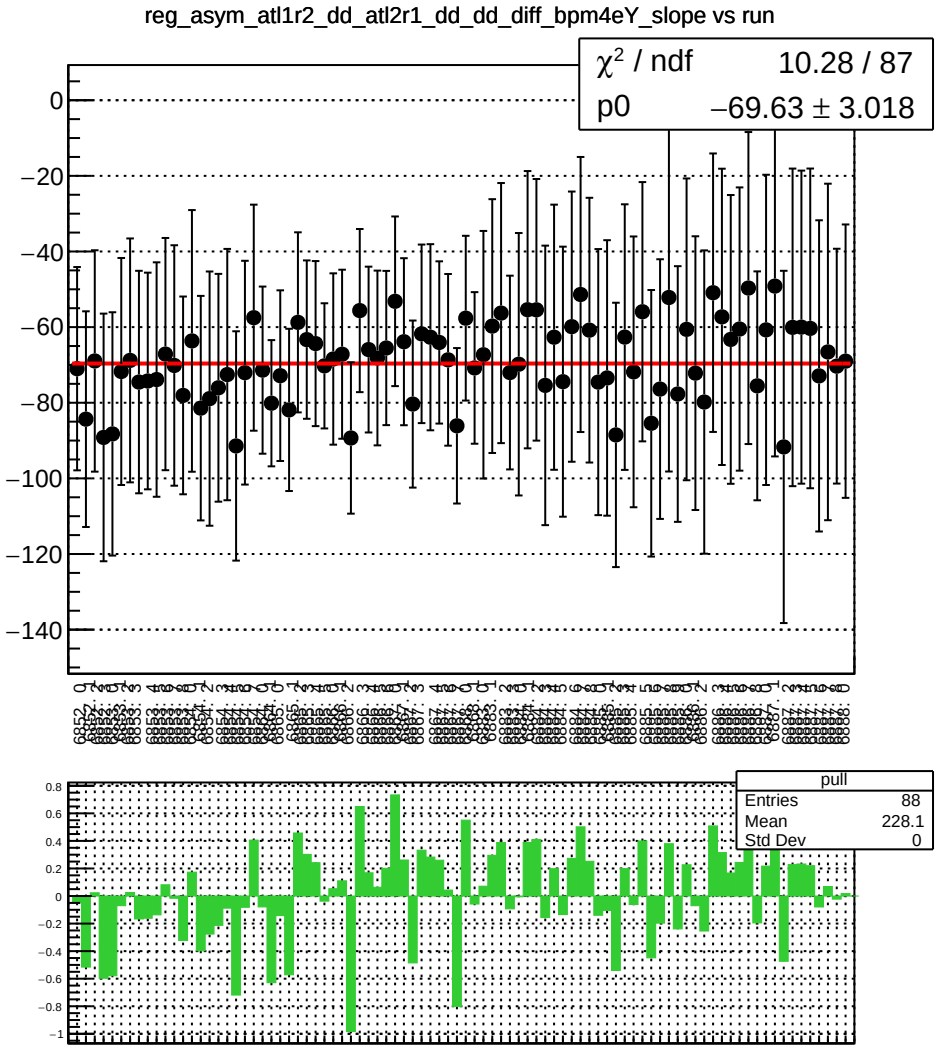

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 12.58 / 87
p0 123.1 ± 0.1695
127
126
125
124
123
122
121
120
pull
Entries 88
Mean 173.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.03023
Std Dev 0.3769
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

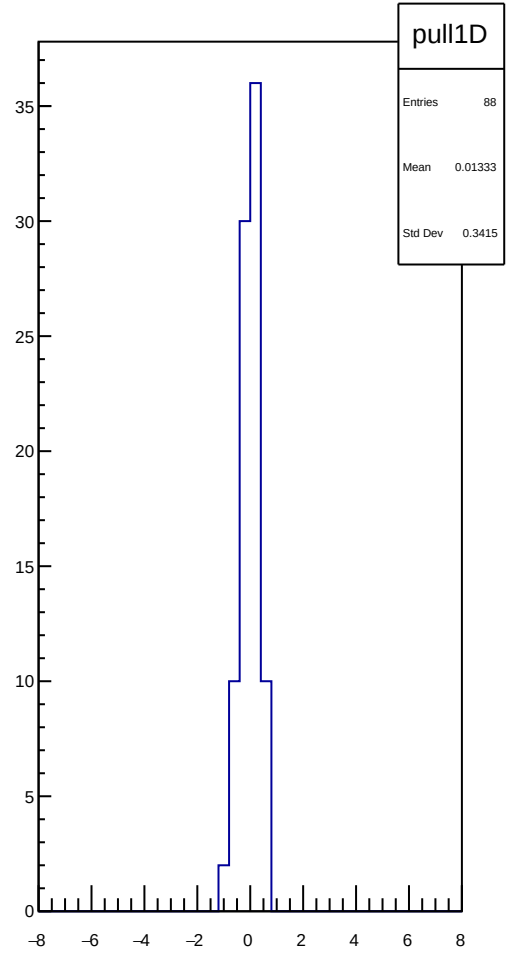

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 30.99 / 87
p0 229.7 ± 4.501
pull
Entries 88
Mean 48.69
Std Dev 50
pull1D
Entries 88
Mean 0.03986
Std Dev 0.5921

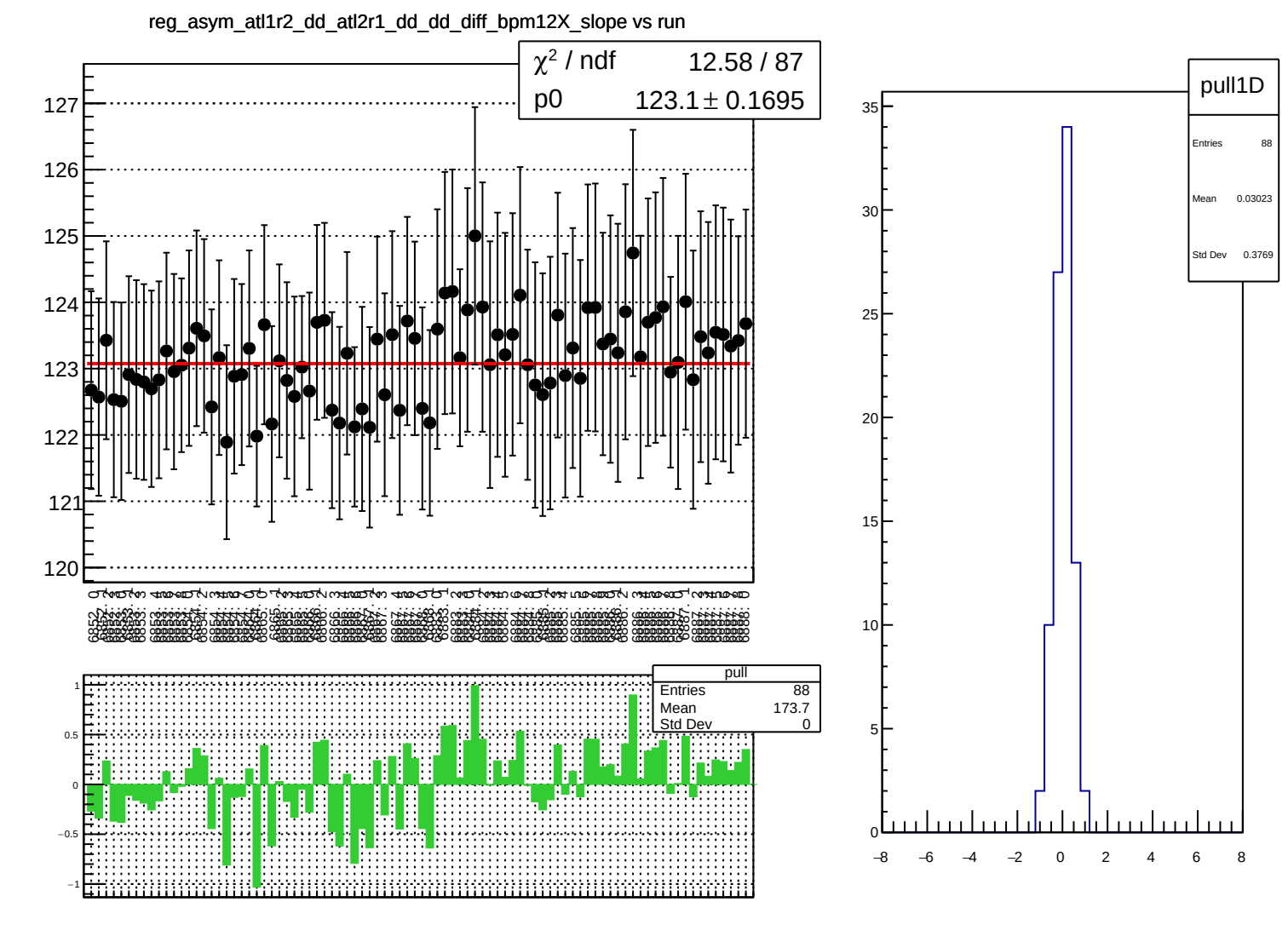

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.609 / 87
p0 1.246 ± 2.325
pull
Entries 88
Mean −78.57
Std Dev 0

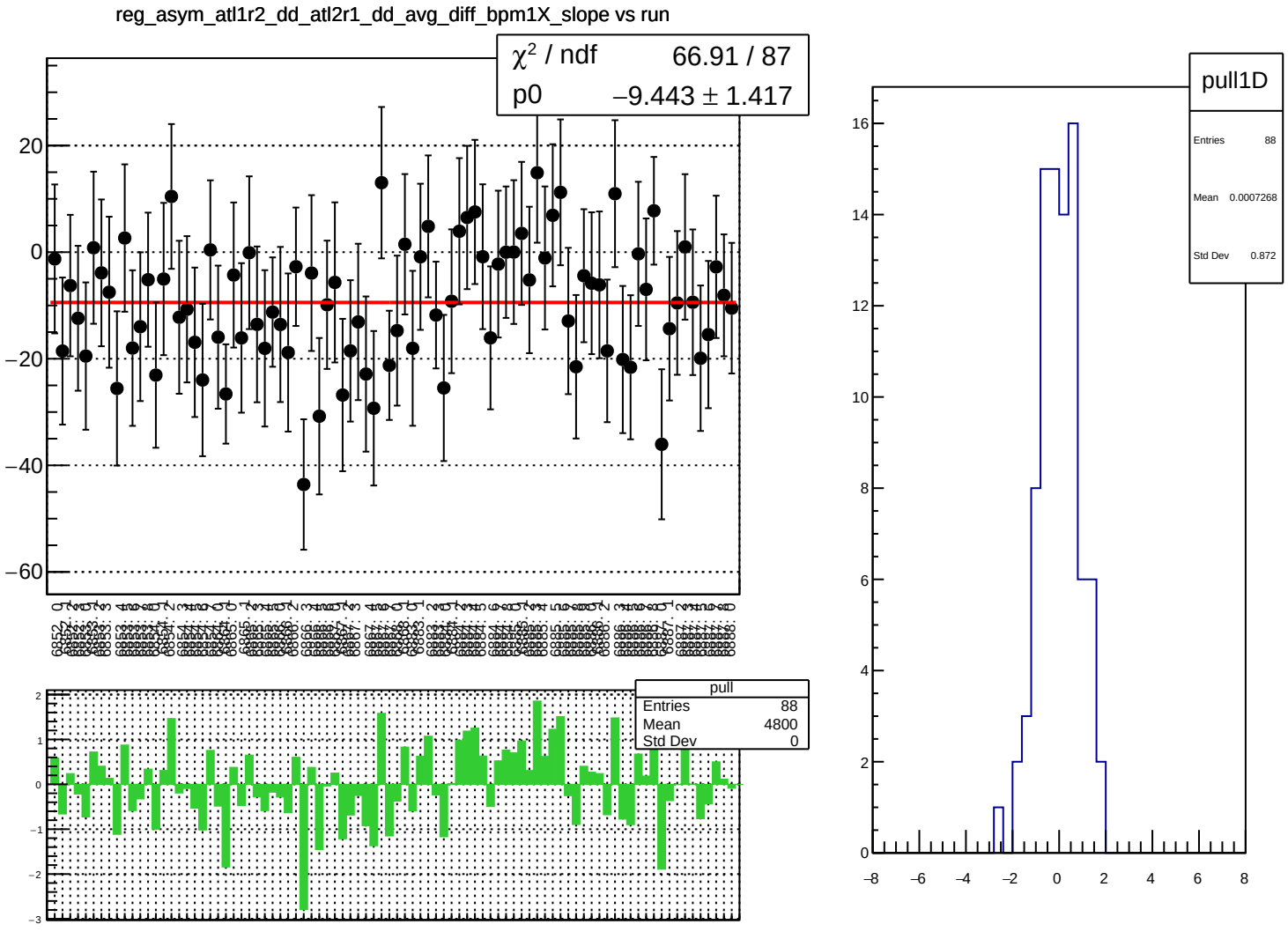

pull1D
Entries 88
Mean −0.002174
Std Dev 0.3128

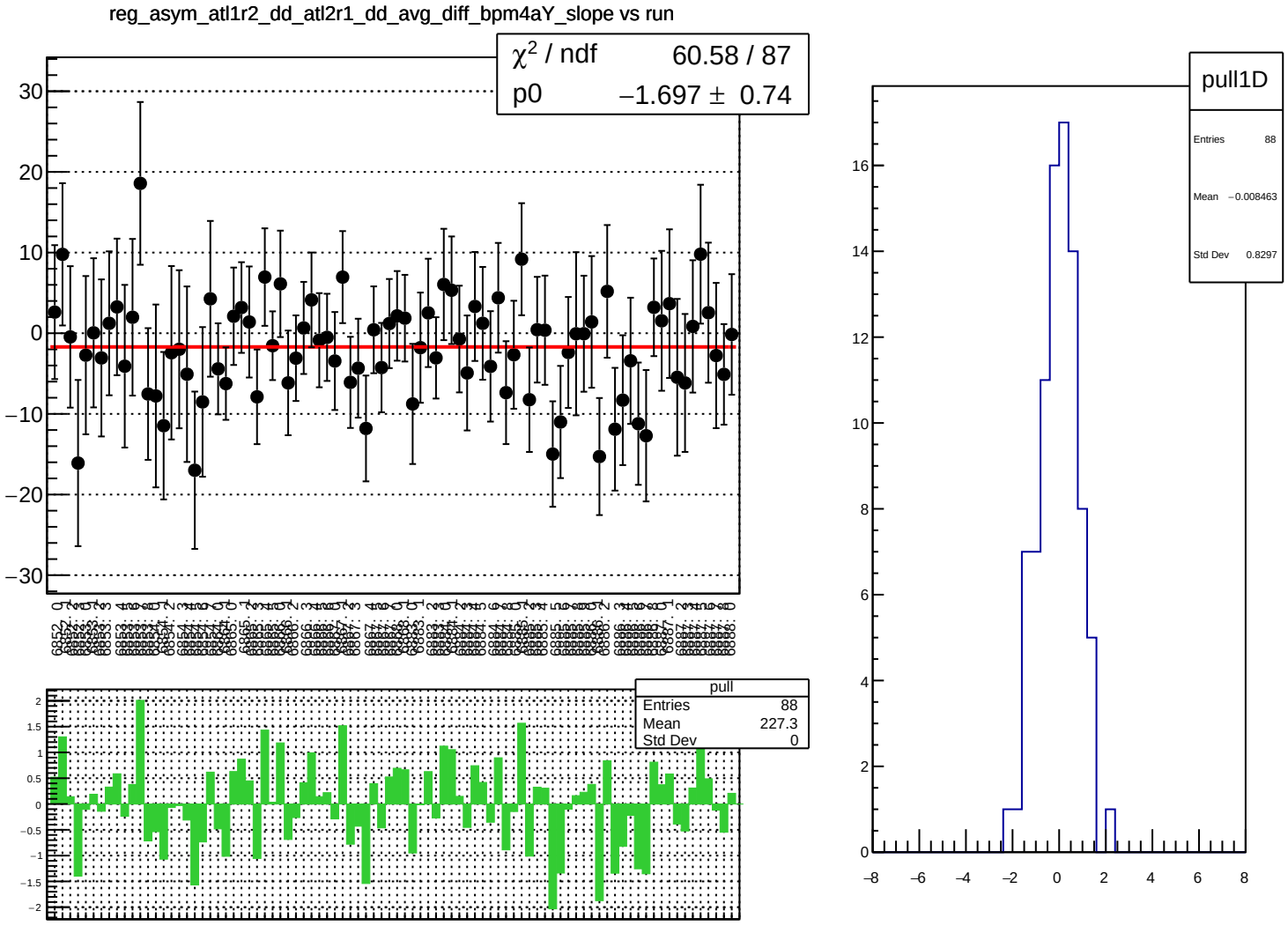

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 35.45 / 87
p0 −229.3 ± 4.275
pull
Entries 88
Mean 75.56
Std Dev 34.37
pull1D
Entries 88
Mean −0.05834
Std Dev 0.632

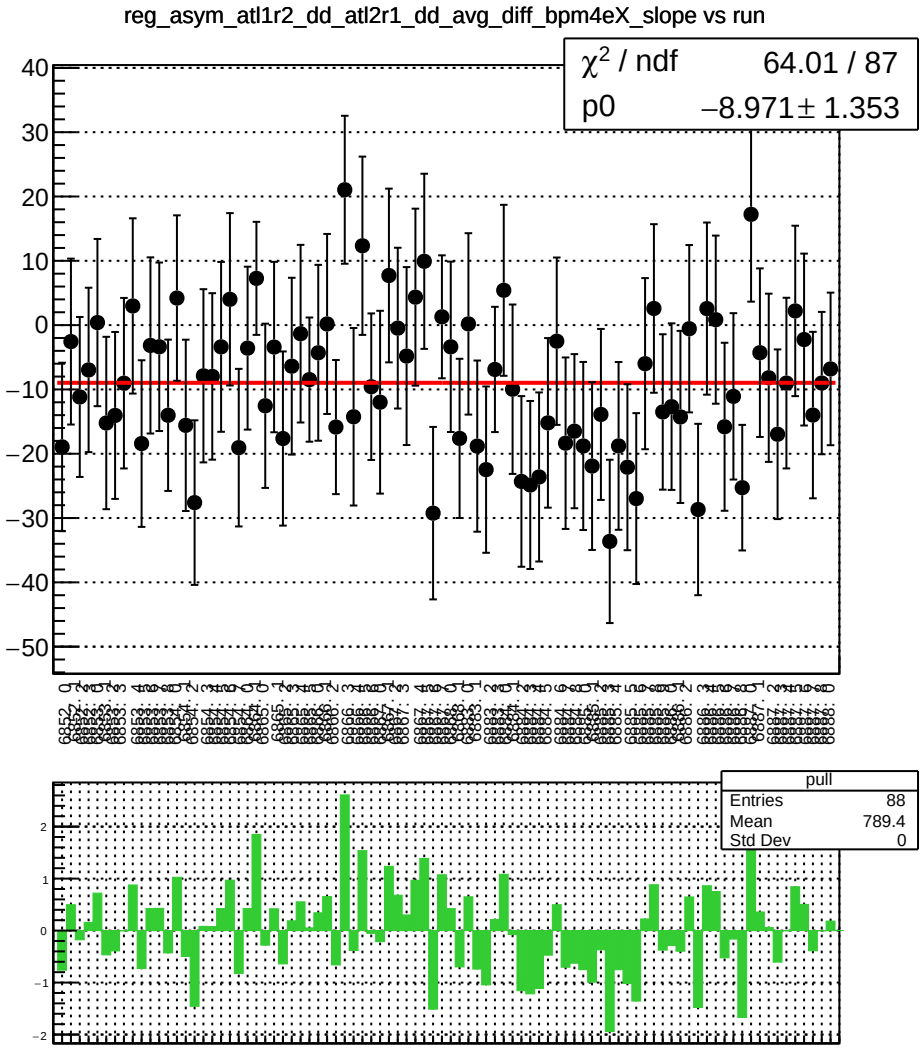

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.28 / 87
p0 −69.63 ± 3.018
pull
Entries 88
Mean 228.1
Std Dev 0

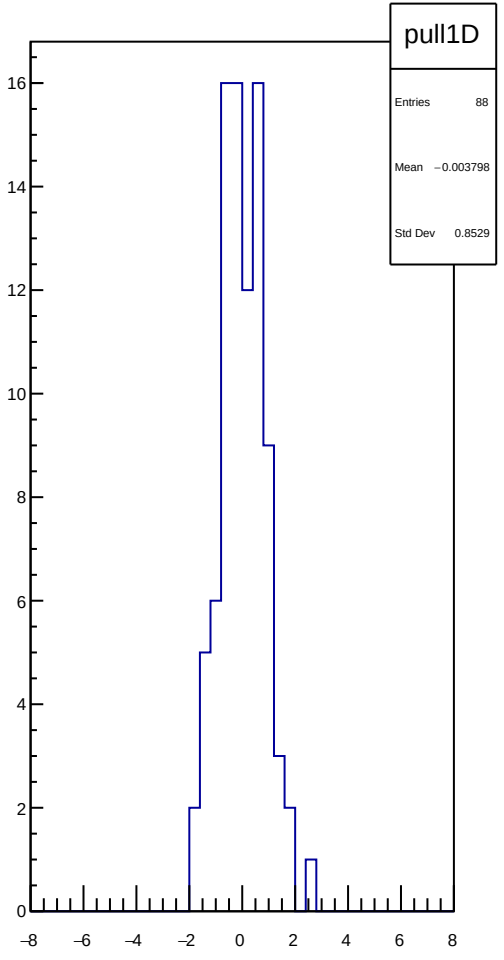

pull1D
Entries 88
Mean 0.01333
Std Dev 0.3415

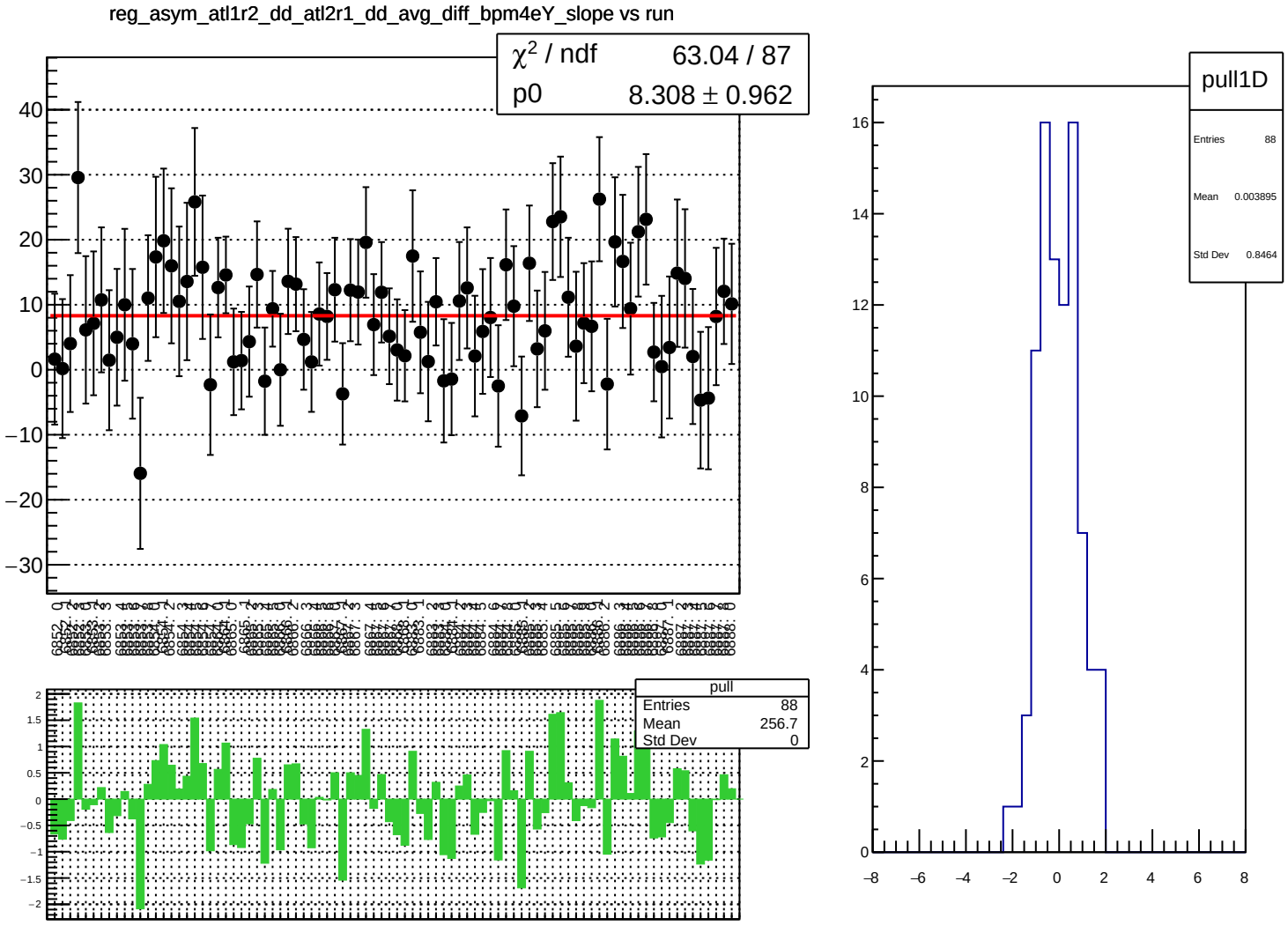

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 12.58 / 87
p0 123.1 ± 0.1695
pull
Entries 88
Mean 173.7
Std Dev 0
pull1D
Entries 88
Mean 0.03023
Std Dev 0.3769

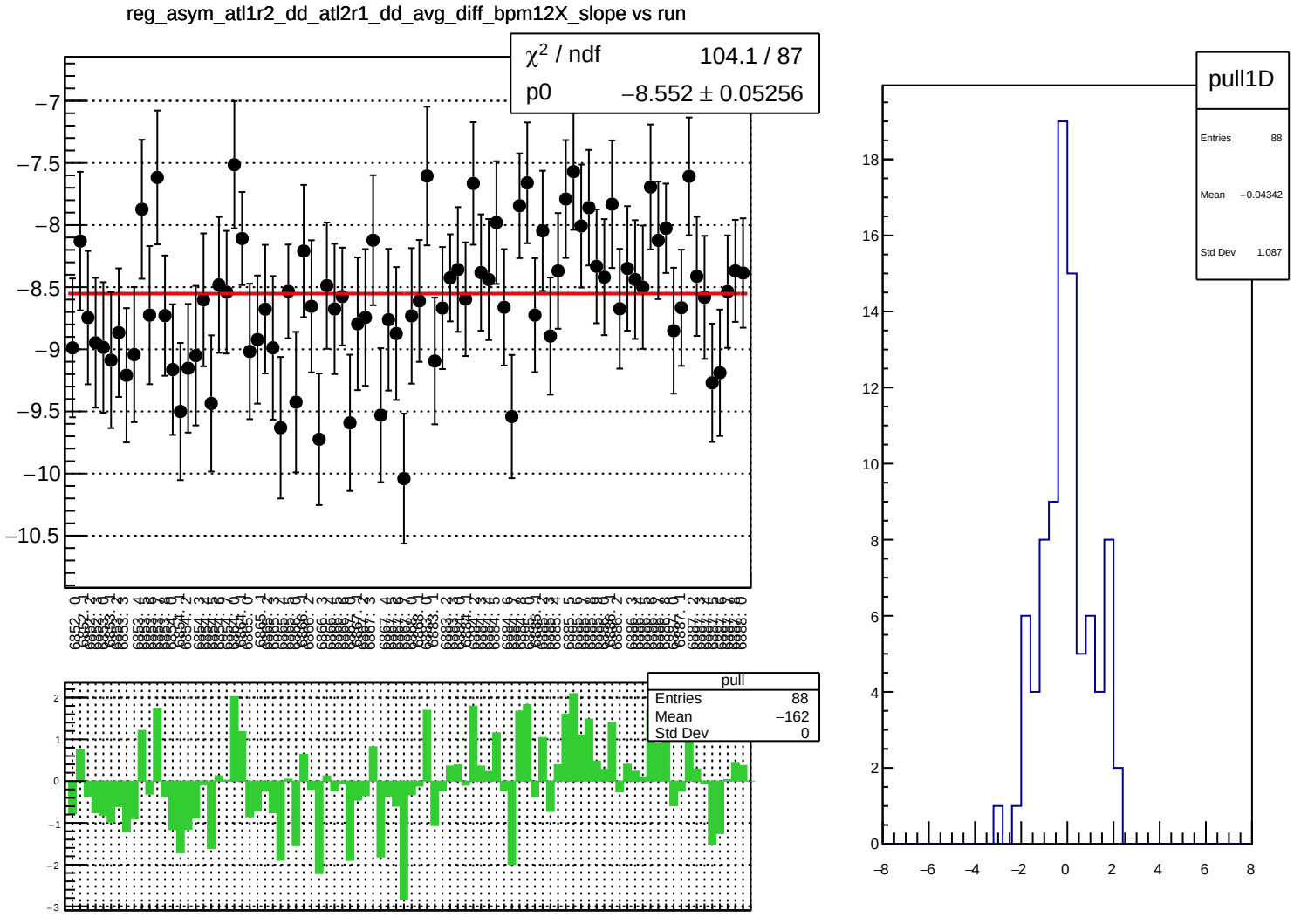

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 66.91 / 87
p0 −9.443 ± 1.417
pull
Entries 88
Mean 4800
Std Dev 0
pull1D
Entries 88
Mean 0.0007268
Std Dev 0.872

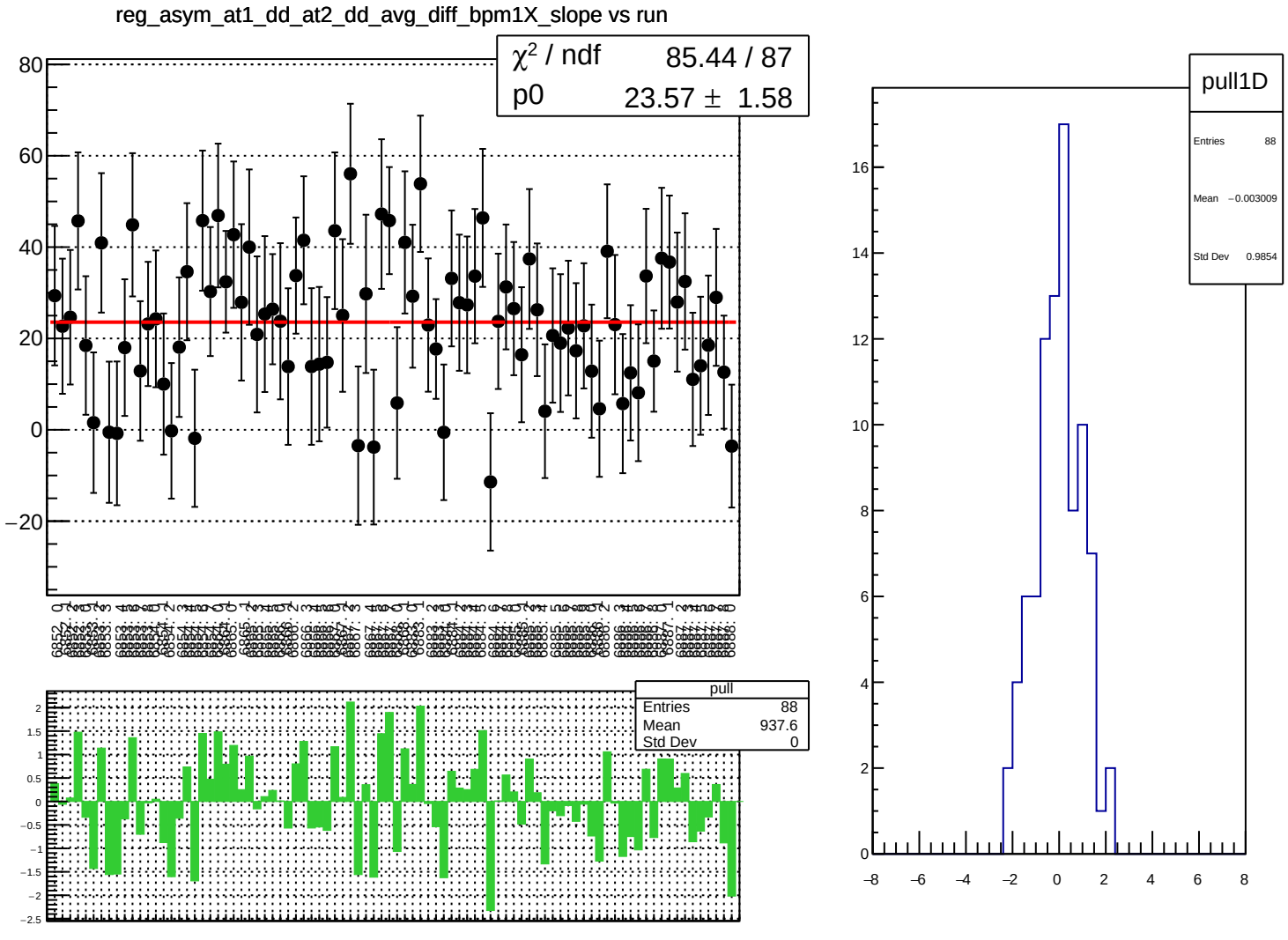

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.58 / 87
p0 −1.697 ± 0.74
pull
Entries 88
Mean 227.3
Std Dev 0
pull1D
Entries 88
Mean −0.008463
Std Dev 0.8297

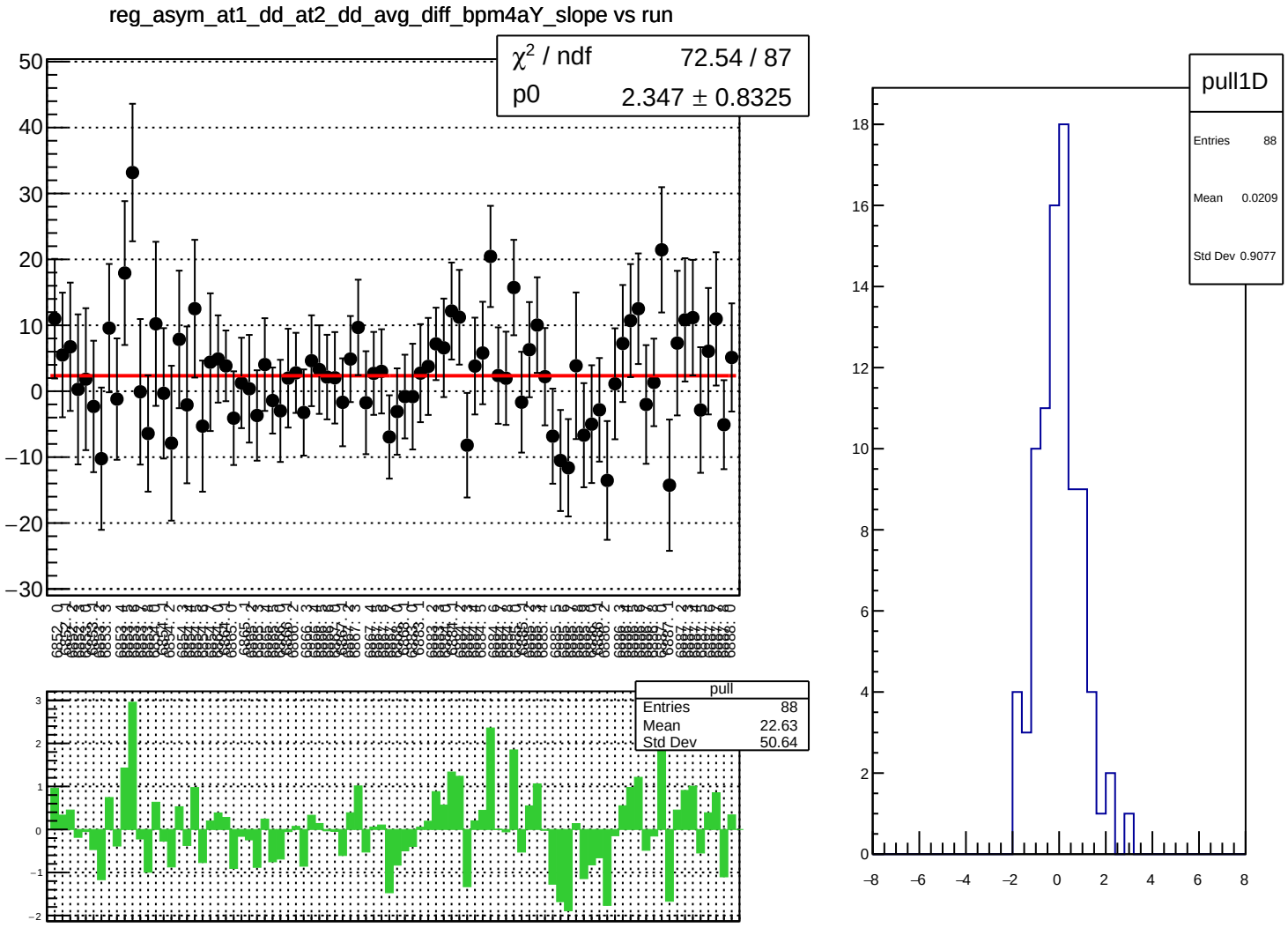

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.01 / 87
p0 −8.971 ± 1.353
pull
Entries 88
Mean 789.4
Std Dev 0

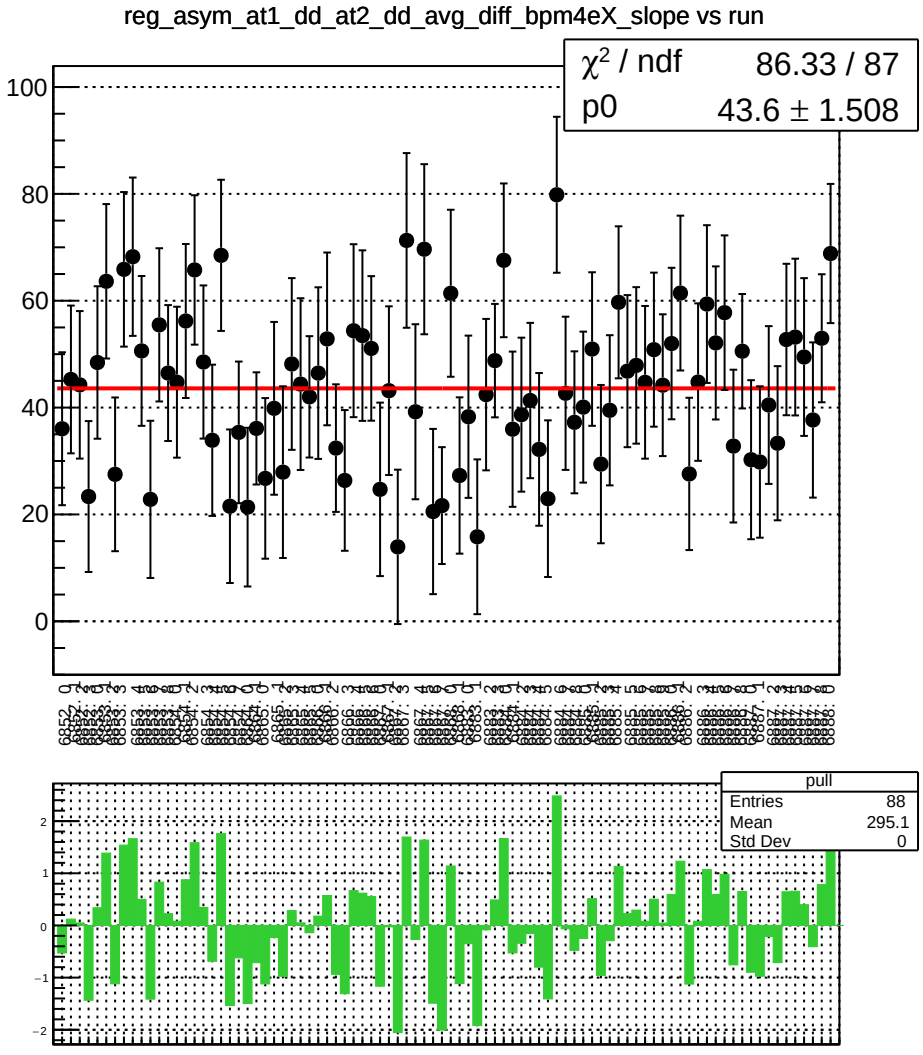

pull1D
Entries 88
Mean −0.003798
Std Dev 0.8529

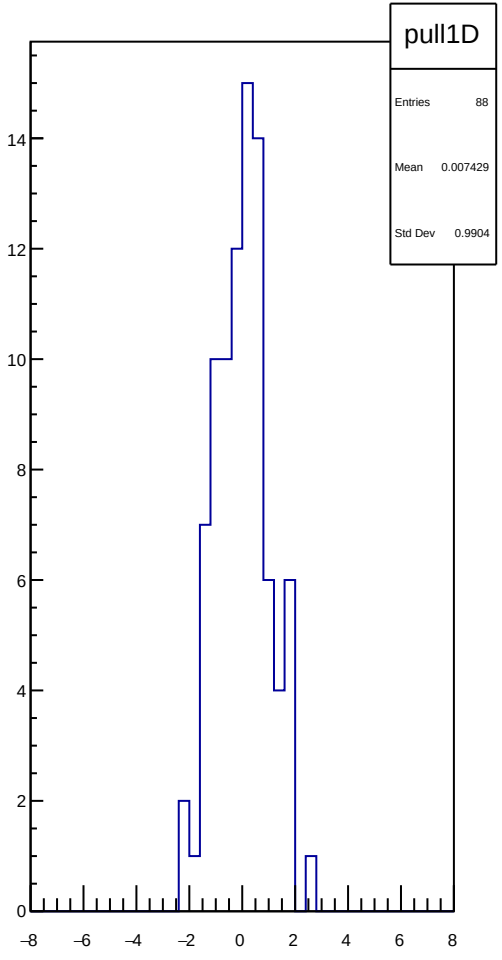

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 63.04 / 87
p0 8.308 ± 0.962
pull
Entries 88
Mean 256.7
Std Dev 0
pull1D
Entries 88
Mean 0.003895
Std Dev 0.8464

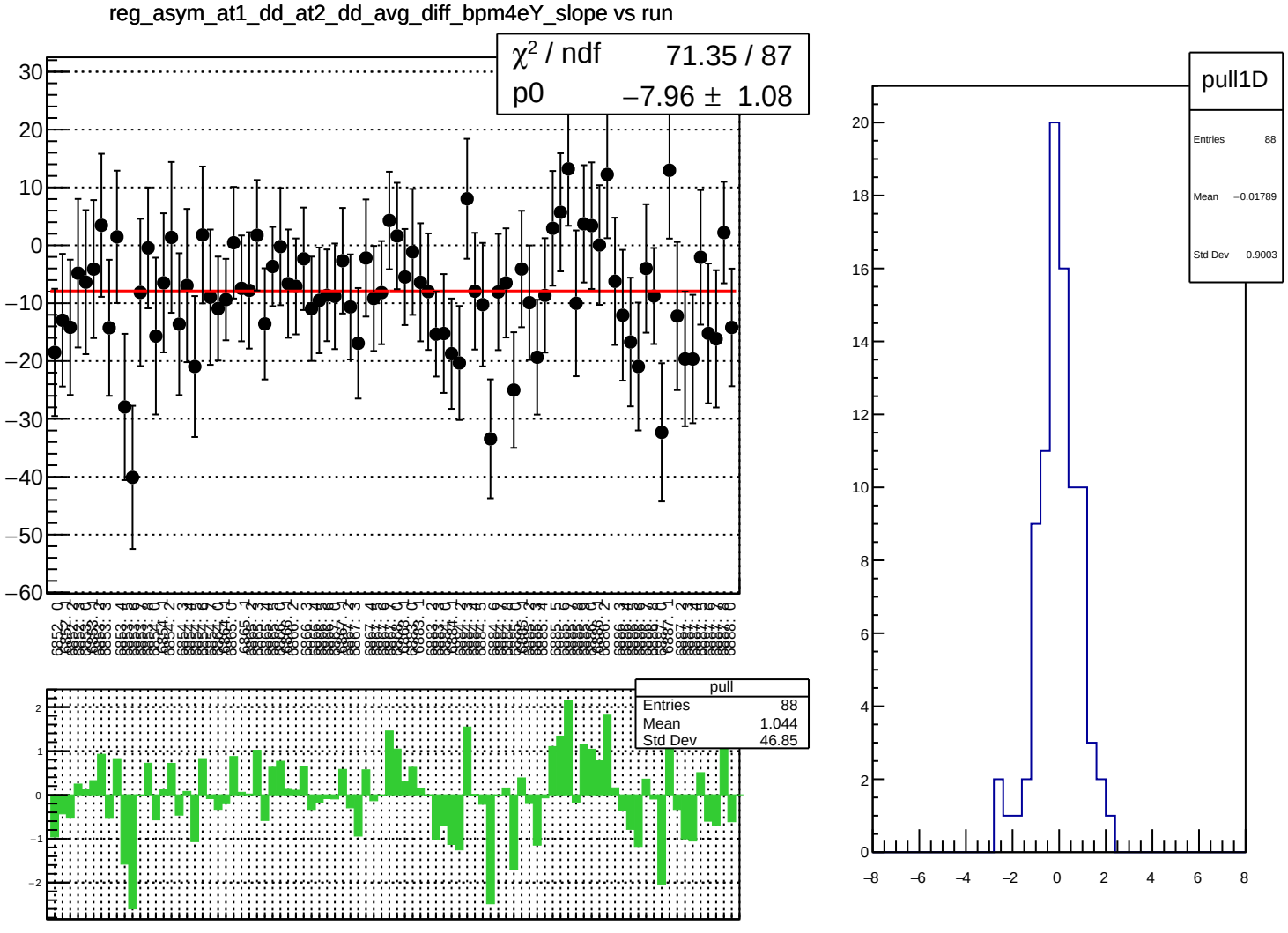

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 104.1 / 87
p0 −8.552 ± 0.05256
pull
Entries 88
Mean −162
Std Dev 0
pull1D
Entries 88
Mean −0.04342
Std Dev 1.087

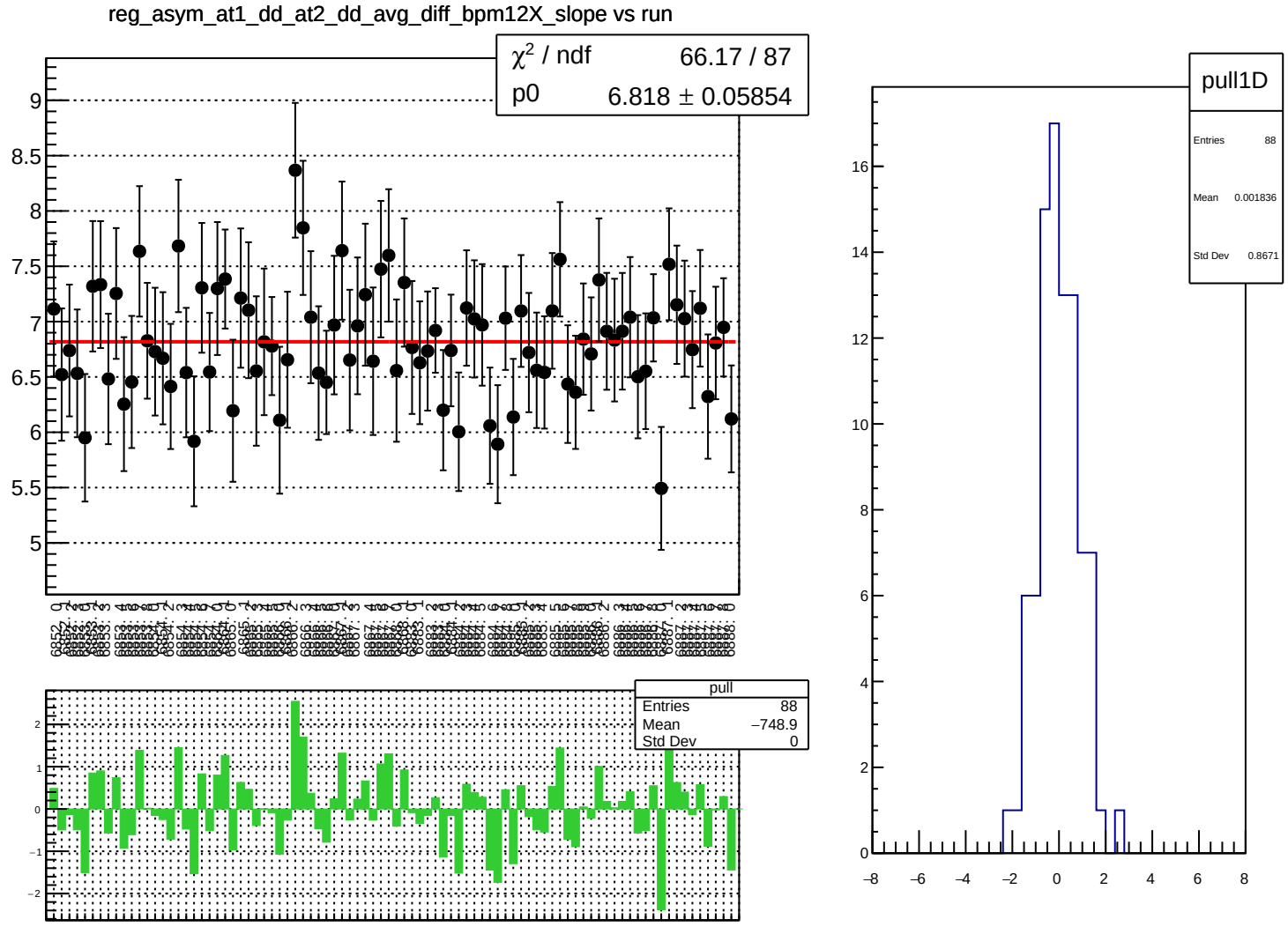

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 85.44 / 87
p0 23.57 ± 1.58
pull
Entries 88
Mean 937.6
Std Dev 0
pull1D
Entries 88
Mean −0.003009
Std Dev 0.9854

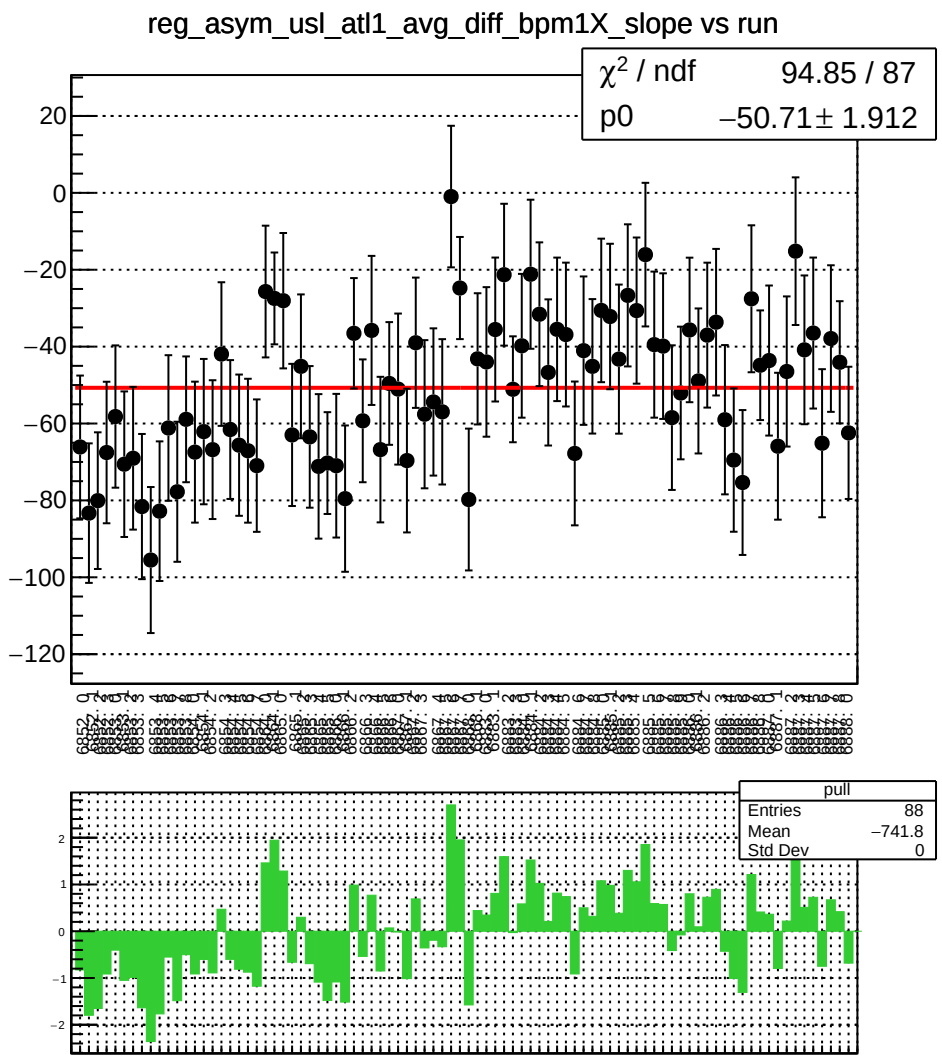

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 72.54 / 87
p0 2.347 ± 0.8325
pull
Entries 88
Mean 22.63
Std Dev 50.64
pull1D
Entries 88
Mean 0.0209
Std Dev 0.9077

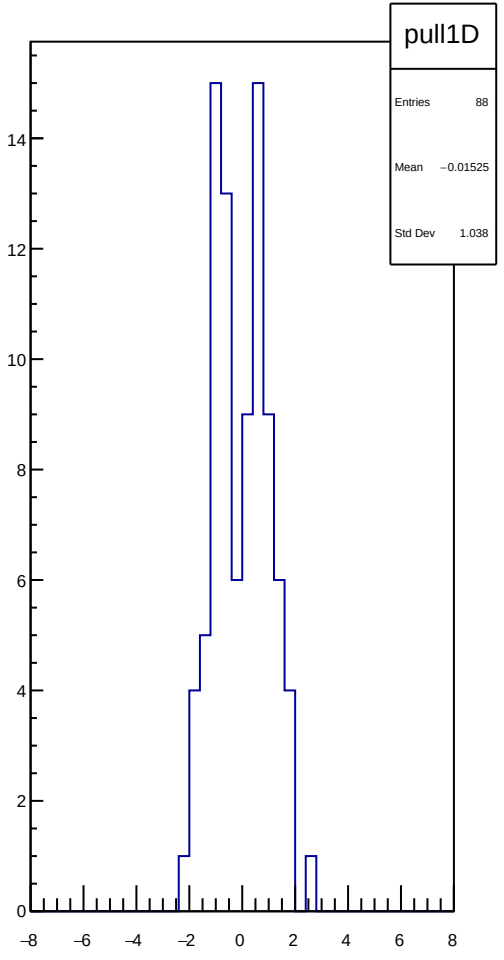

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 86.33 / 87
p0 43.6 ± 1.508
pull
Entries 88
Mean 295.1
Std Dev 0

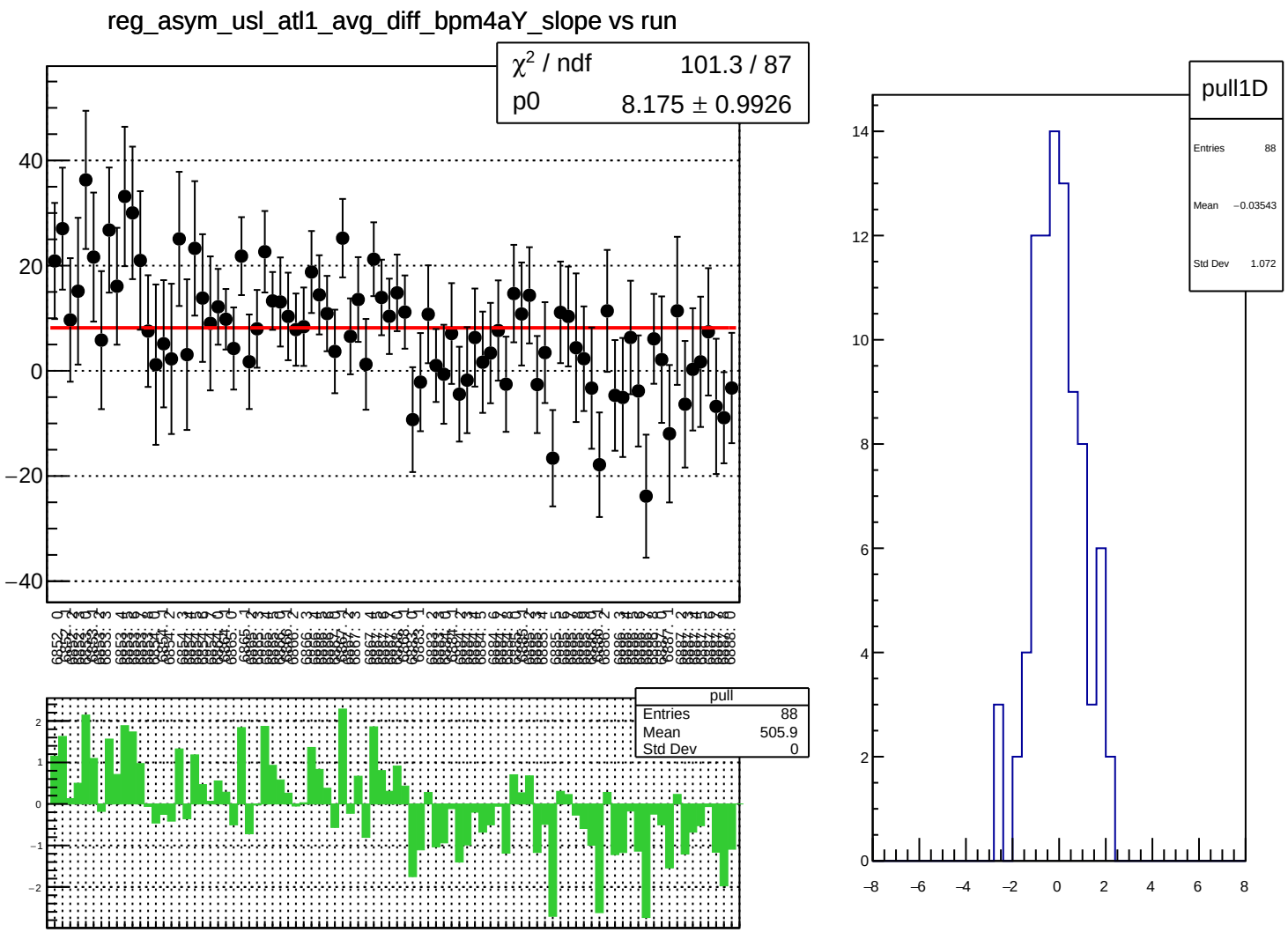

pull1D
Entries 88
Mean 0.007429
Std Dev 0.9904

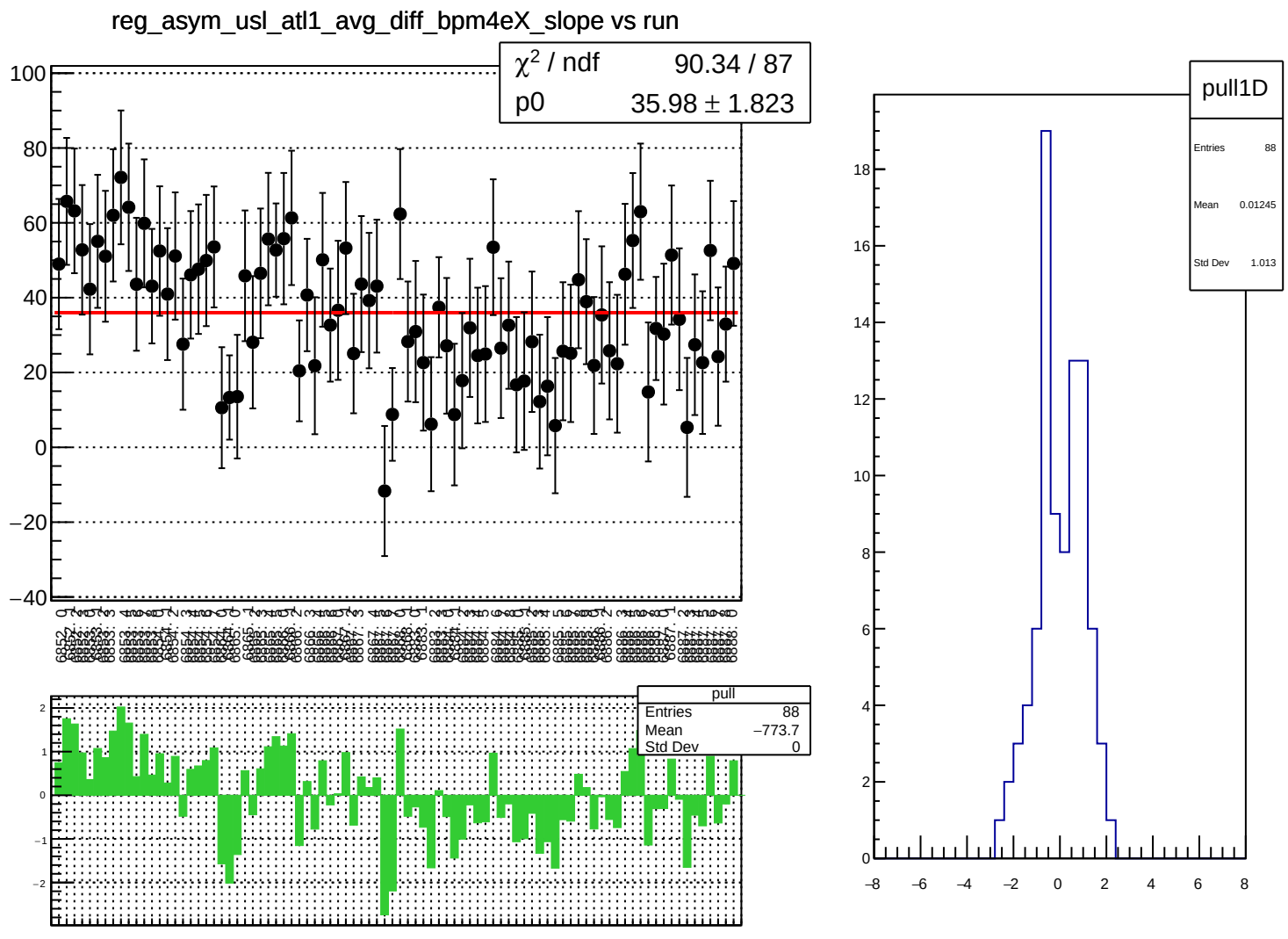

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 71.35 / 87
p0 −7.96 ± 1.08
pull
Entries 88
Mean 1.044
Std Dev 46.85
pull1D
Entries 88
Mean −0.01789
Std Dev 0.9003

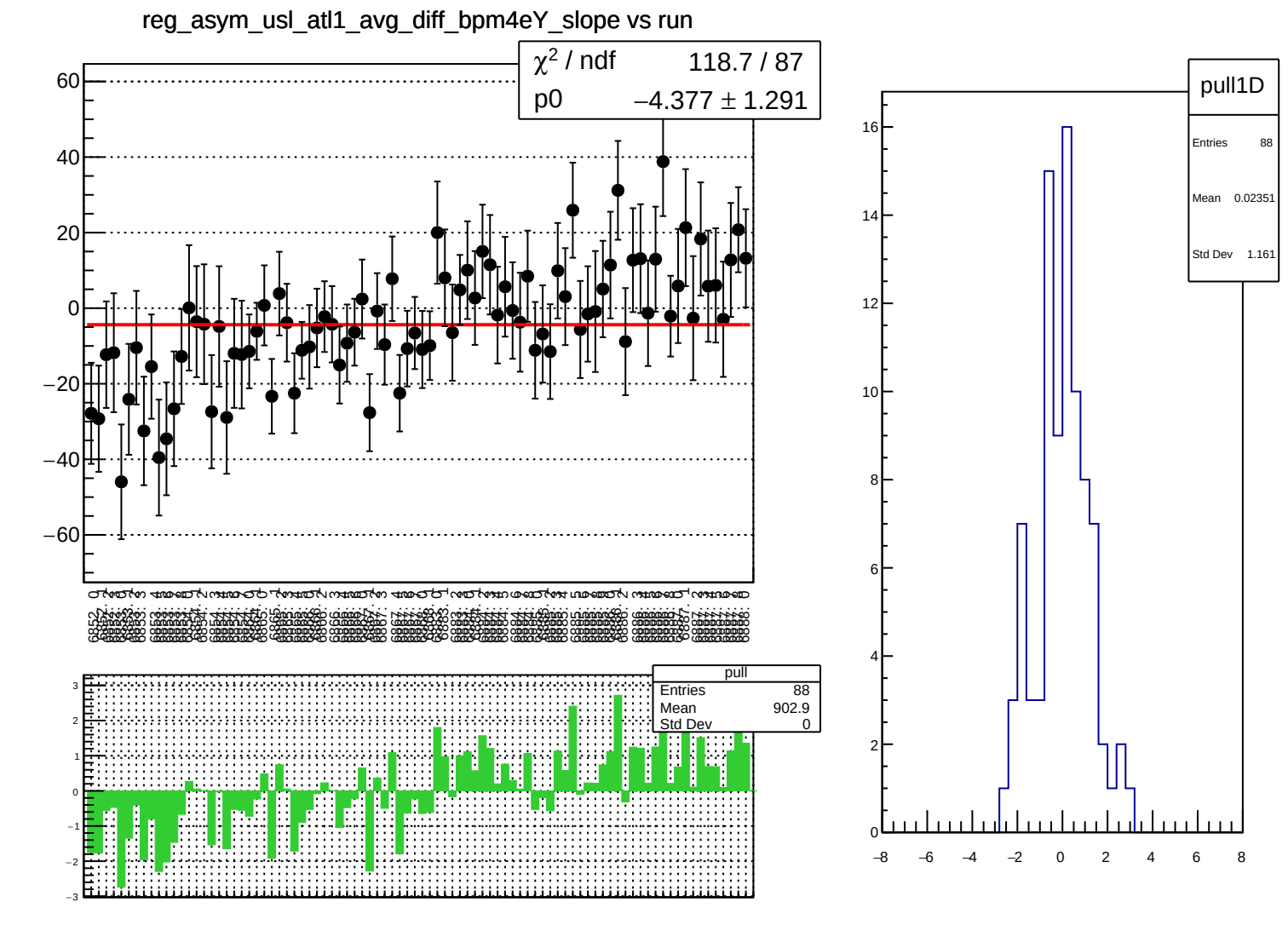

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 66.17 / 87
p0 6.818 ± 0.05854
pull
Entries 88
Mean −748.9
Std Dev 0
pull1D
Entries 88
Mean 0.001836
Std Dev 0.8671

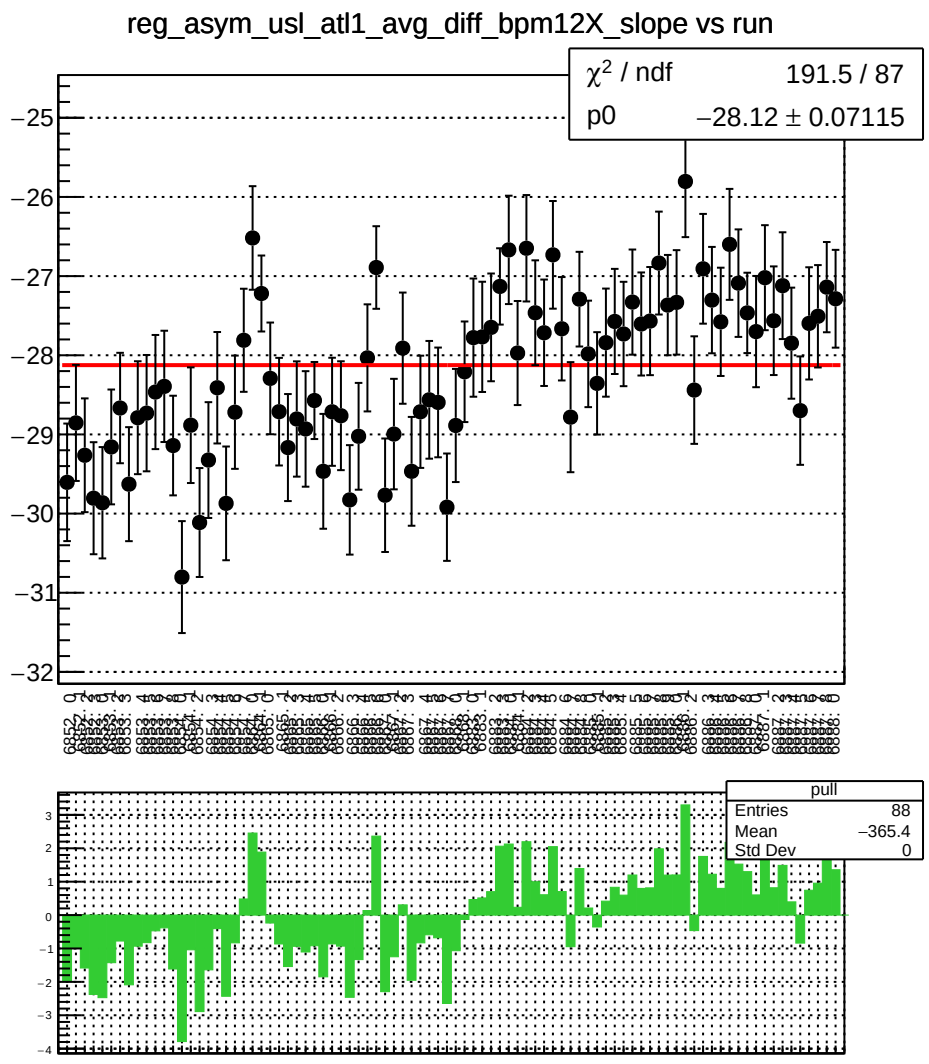

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 94.85 / 87
p0 −50.71 ± 1.912
pull
Entries 88
Mean −741.8
Std Dev 0

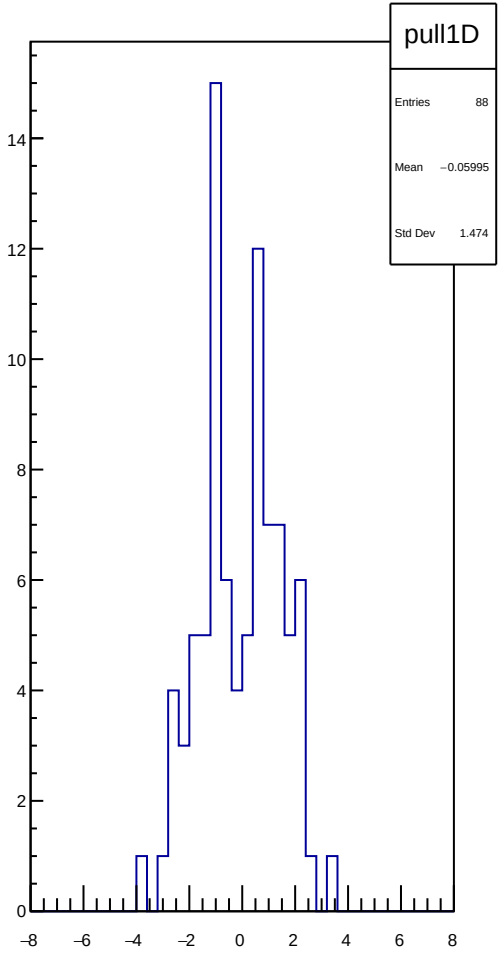

pull1D
Entries 88
Mean −0.01525
Std Dev 1.038

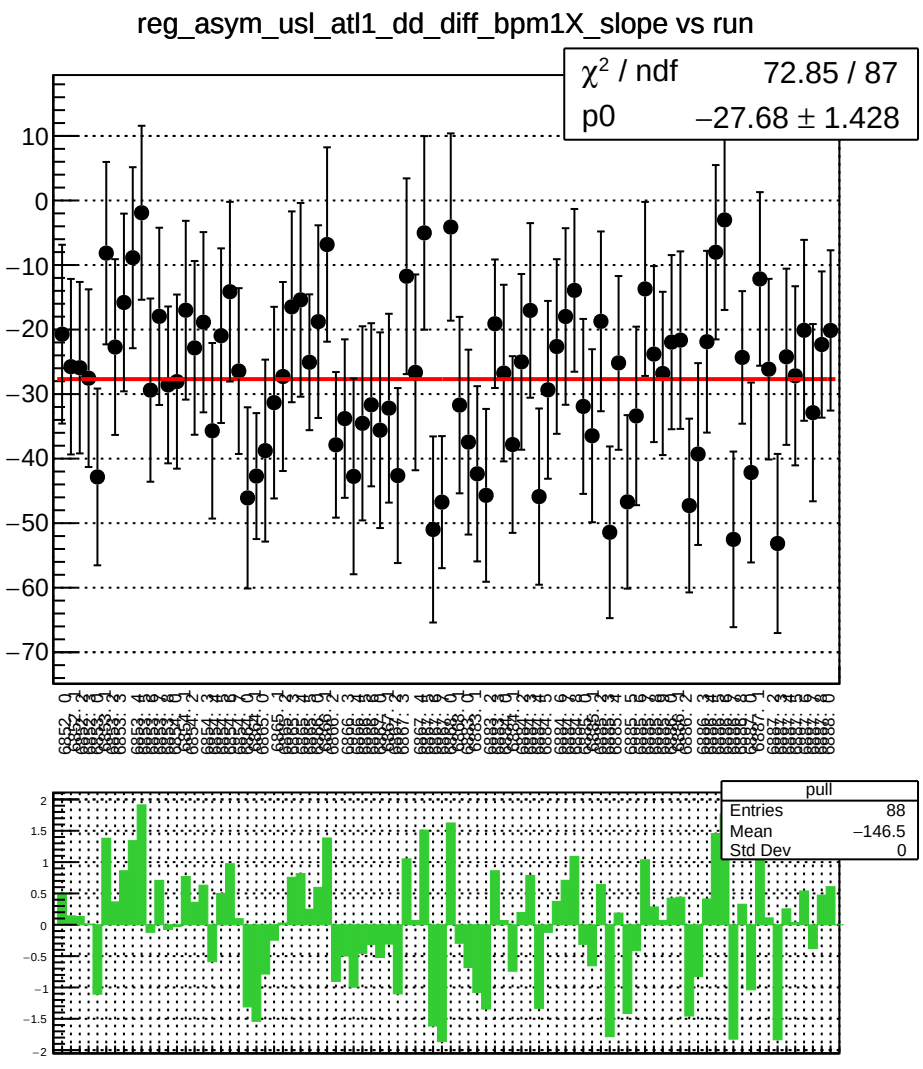

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 101.3 / 87
p0 8.175 ± 0.9926
40
20
0
−20
−40
pull
Entries 88
Mean 505.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean −0.03543
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

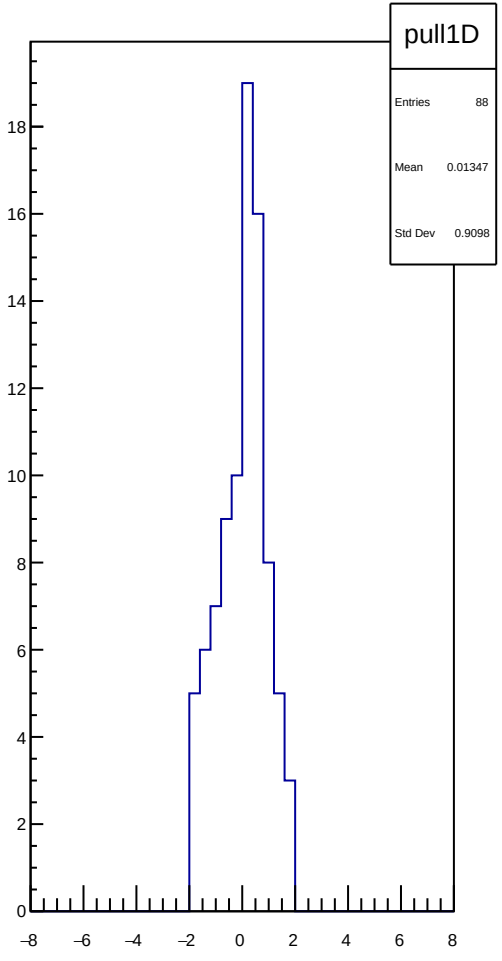

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 90.34 / 87
p0 35.98 ± 1.823
pull
Entries 88
Mean −773.7
Std Dev 0
pull1D
Entries 88
Mean 0.01245
Std Dev 1.013

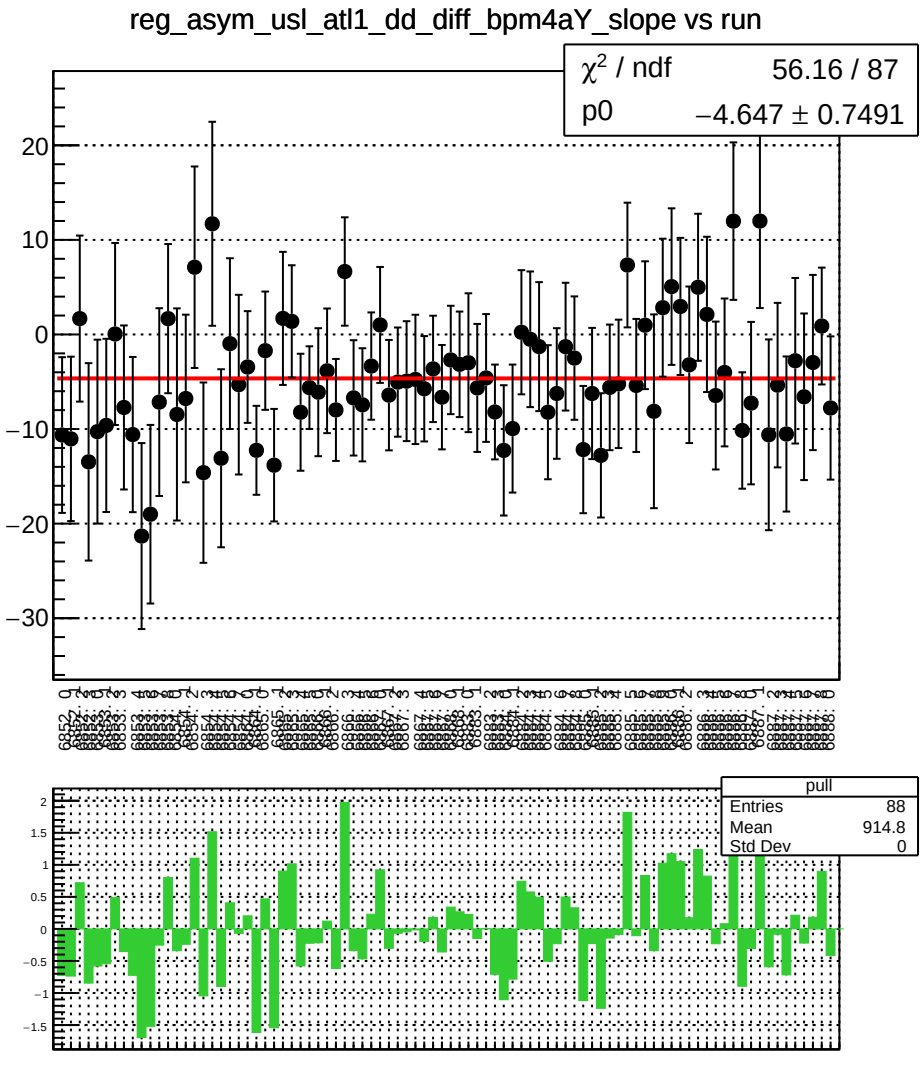

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 118.7 / 87
p0 −4.377 ± 1.291
pull
Entries 88
Mean 902.9
Std Dev 0
pull1D
Entries 88
Mean 0.02351
Std Dev 1.161

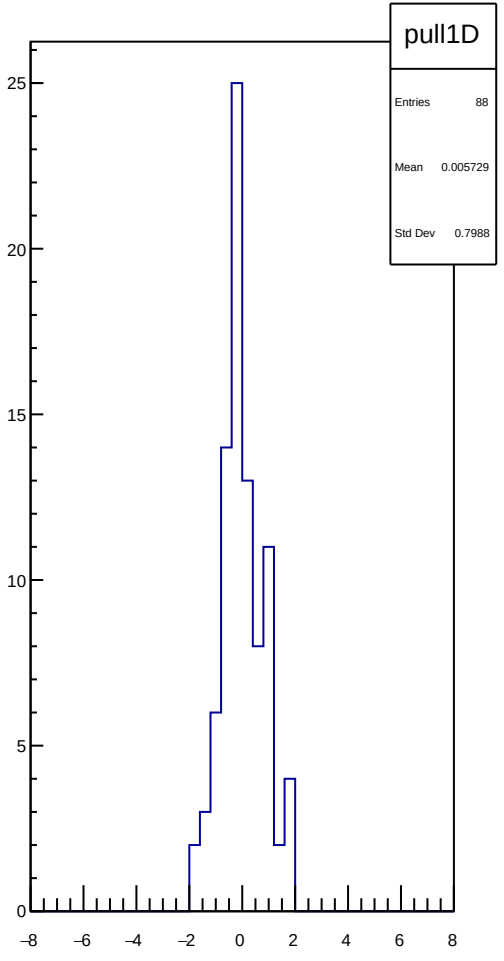

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 191.5 / 87
p0 −28.12 ± 0.07115
pull
Entries 88
Mean −365.4
Std Dev 0

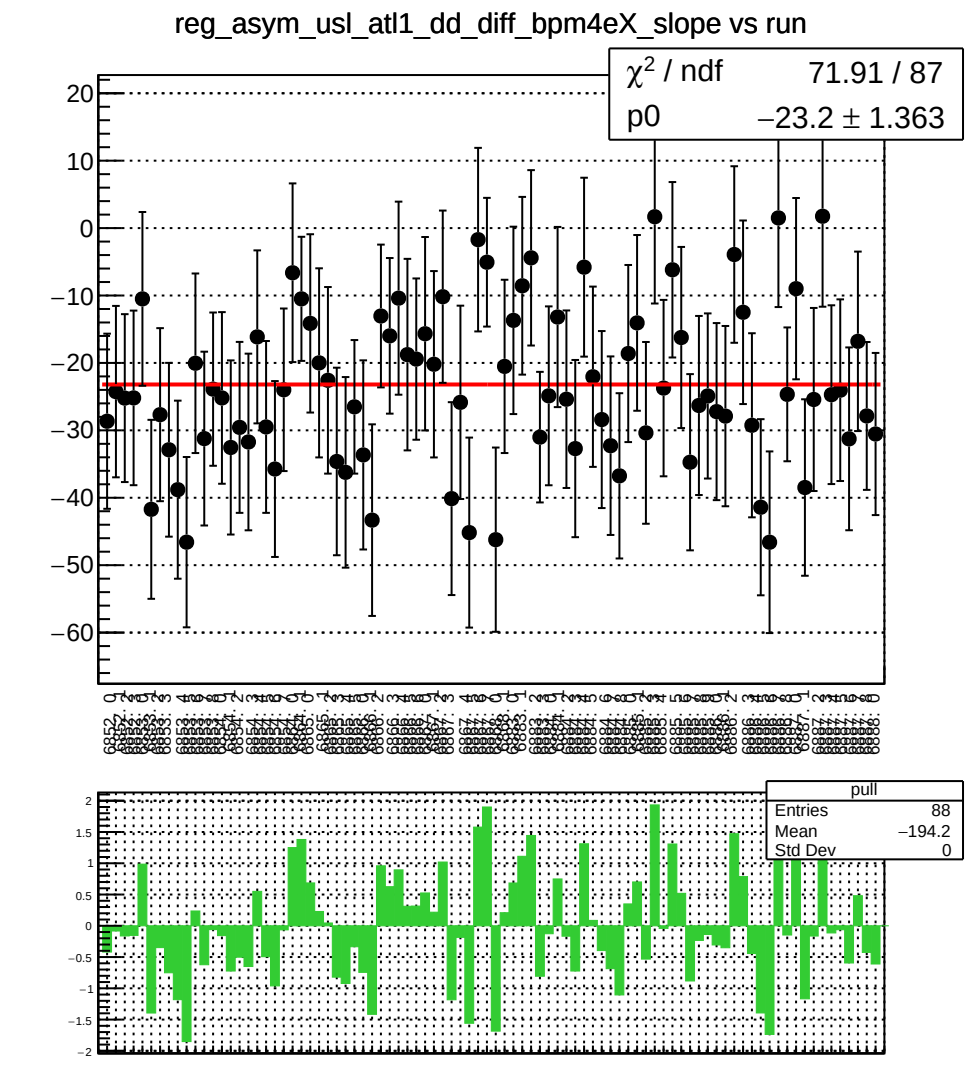

pull1D
Entries 88
Mean −0.05995
Std Dev 1.474

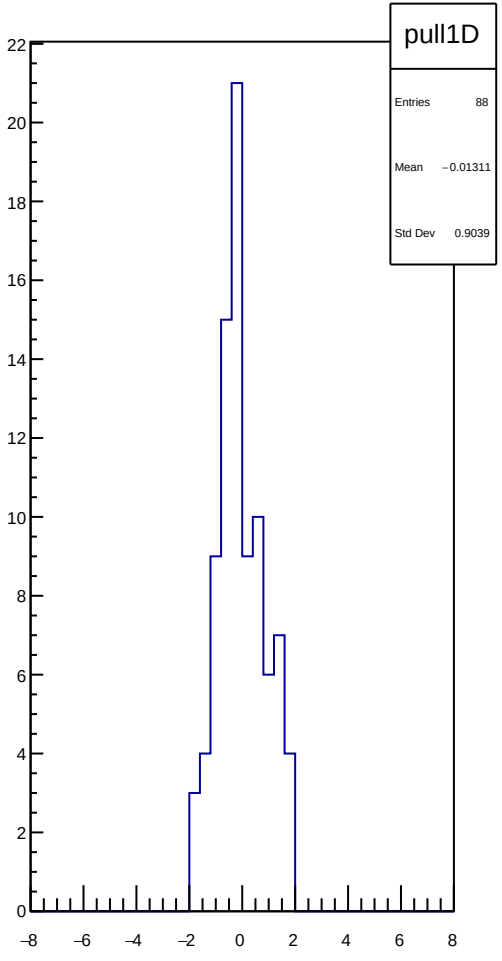

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 72.85 / 87
p0 −27.68 ± 1.428
pull
Entries 88
Mean −146.5
Std Dev 0

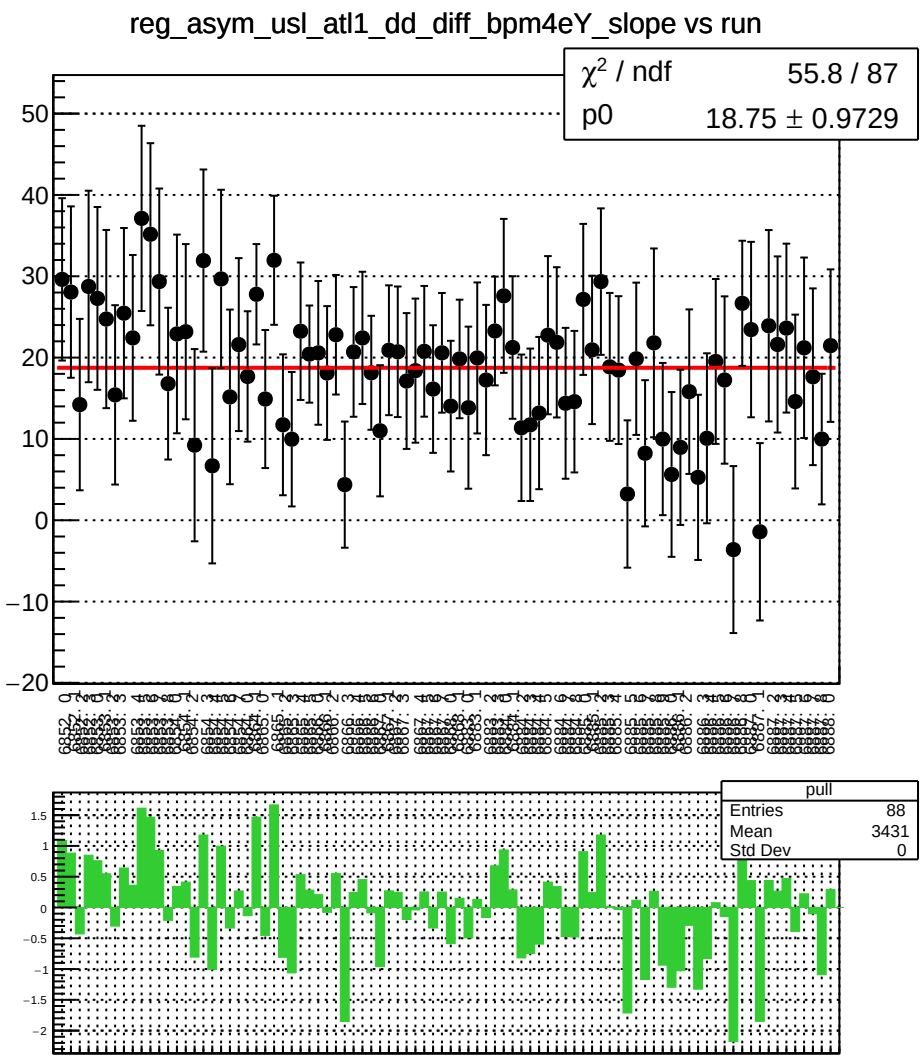

pull1D
Entries 88
Mean 0.01347
Std Dev 0.9098

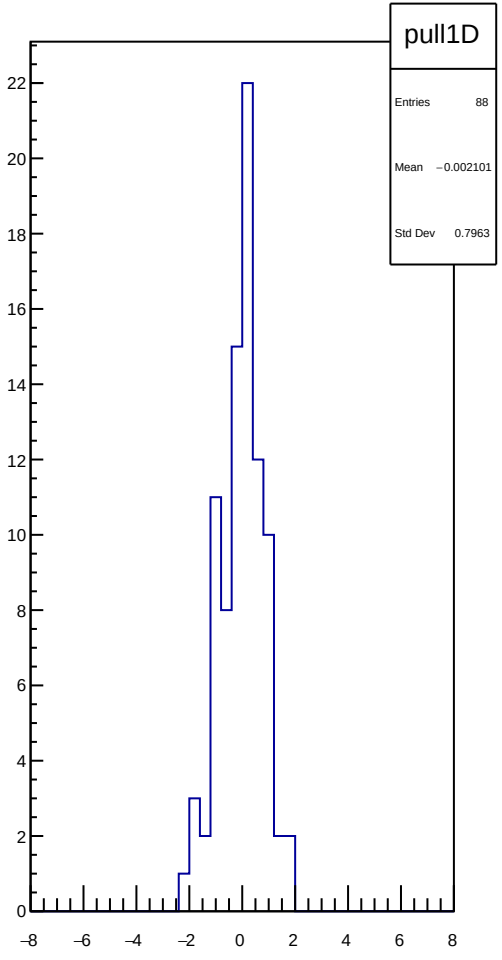

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.16 / 87
p0 −4.647 ± 0.7491
pull
Entries 88
Mean 914.8
Std Dev 0

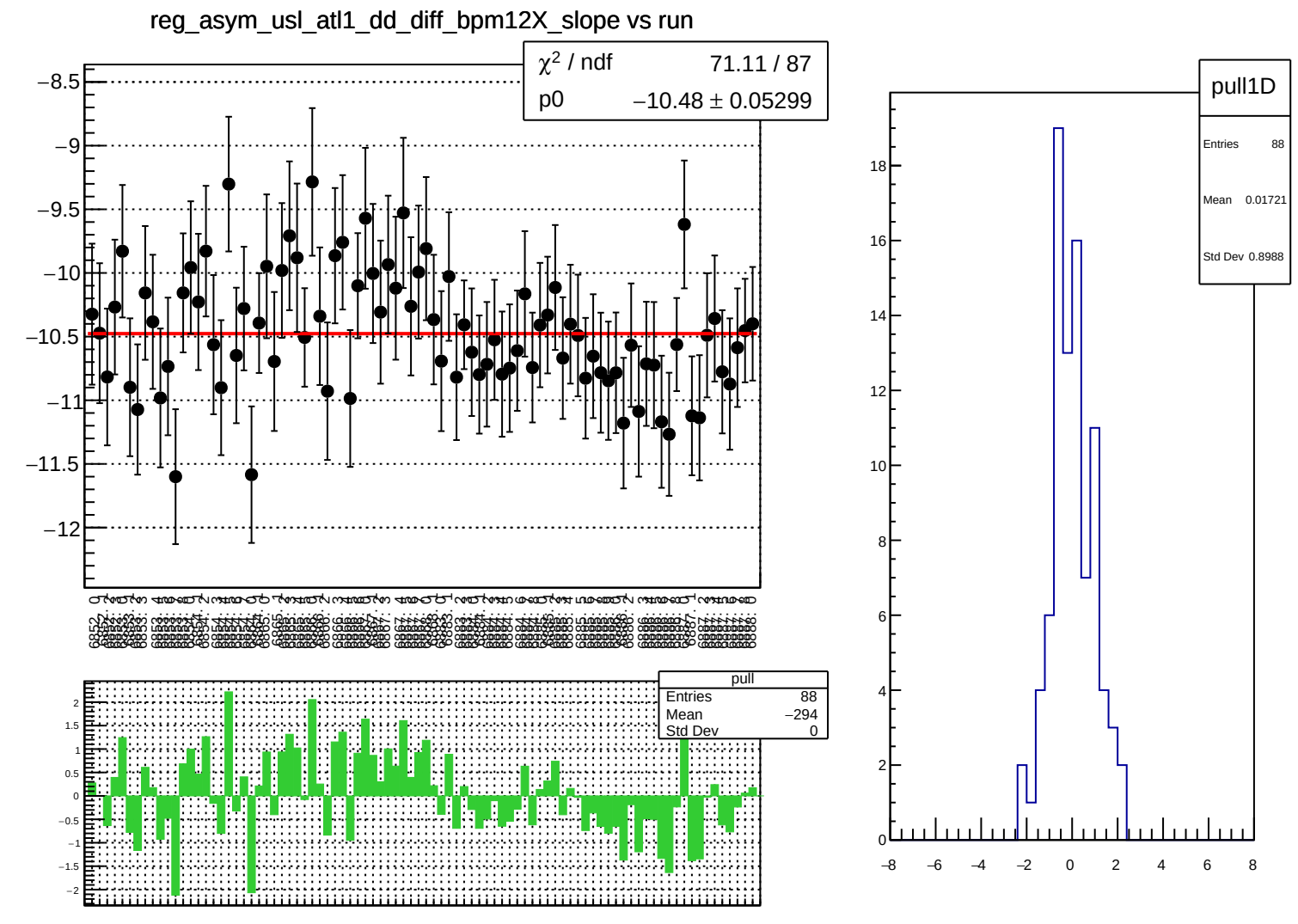

pull1D
Entries 88
Mean 0.005729
Std Dev 0.7988

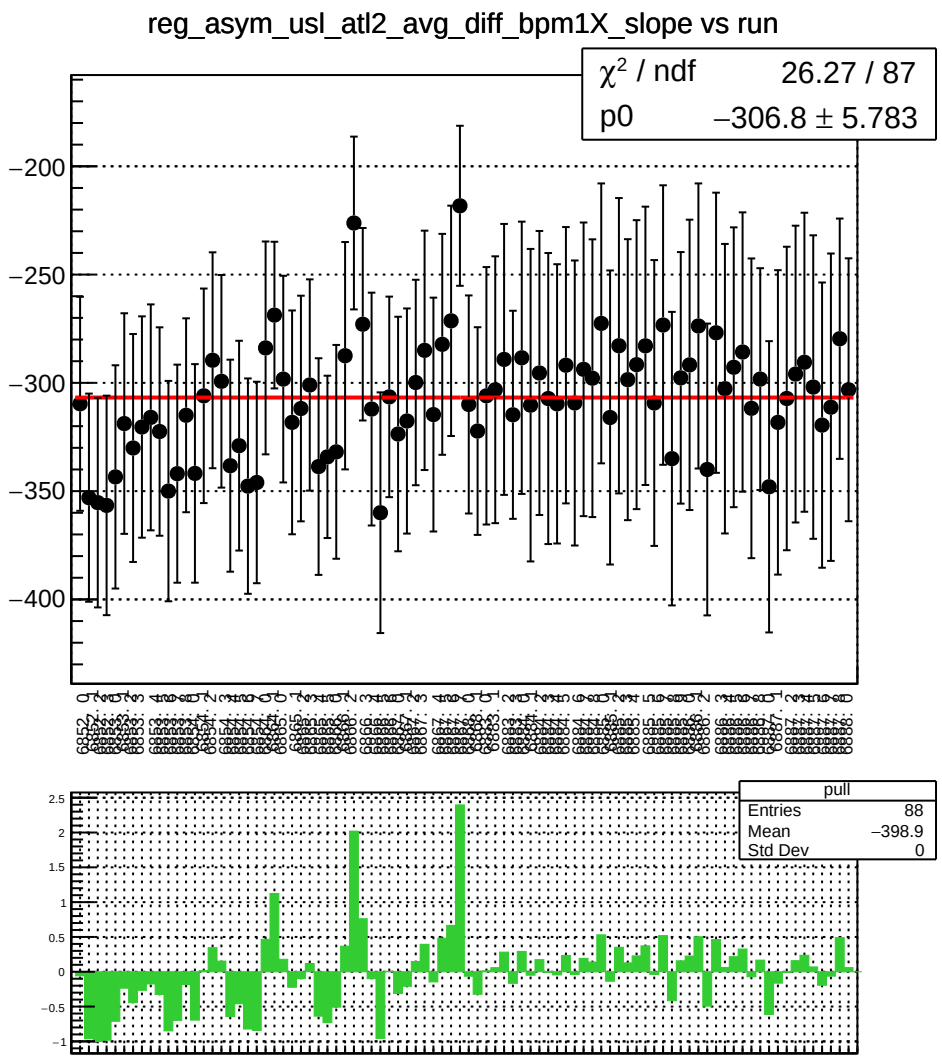

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.91 / 87
p0 −23.2 ± 1.363
pull
Entries 88
Mean −194.2
Std Dev 0

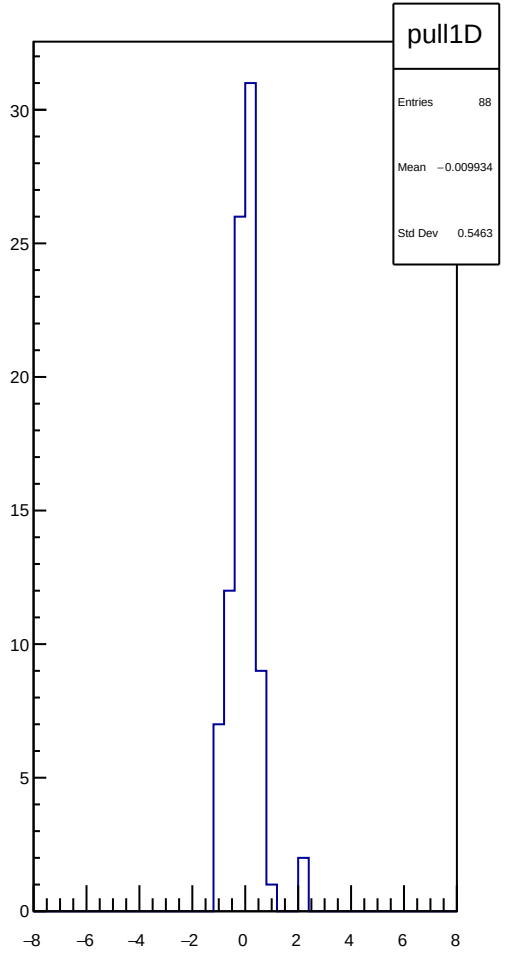

pull1D
Entries 88
Mean −0.01311
Std Dev 0.9039

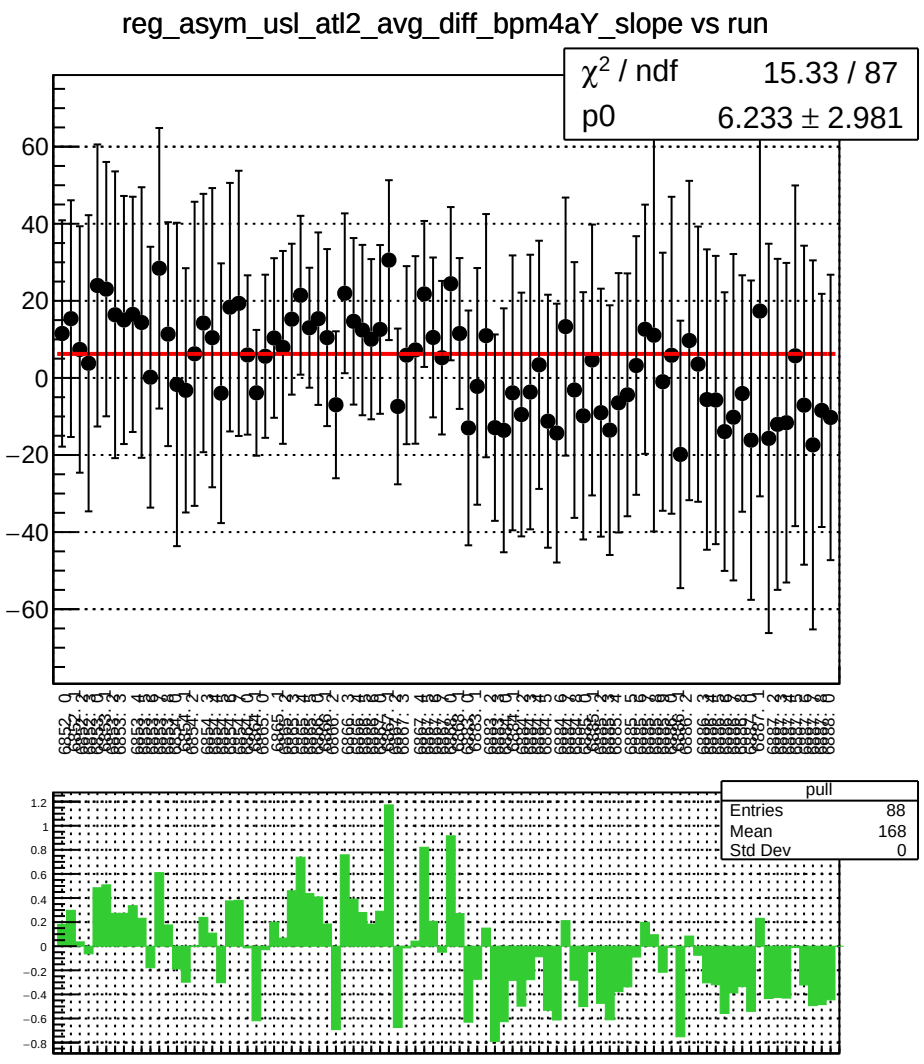

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.8 / 87
p0 18.75 ± 0.9729
pull
Entries 88
Mean 3431
Std Dev 0

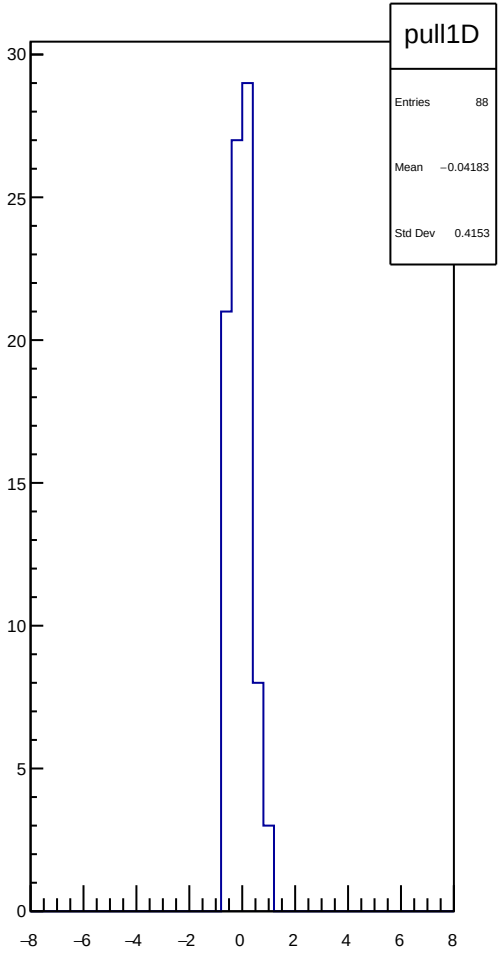

pull1D
Entries 88
Mean −0.002101
Std Dev 0.7963

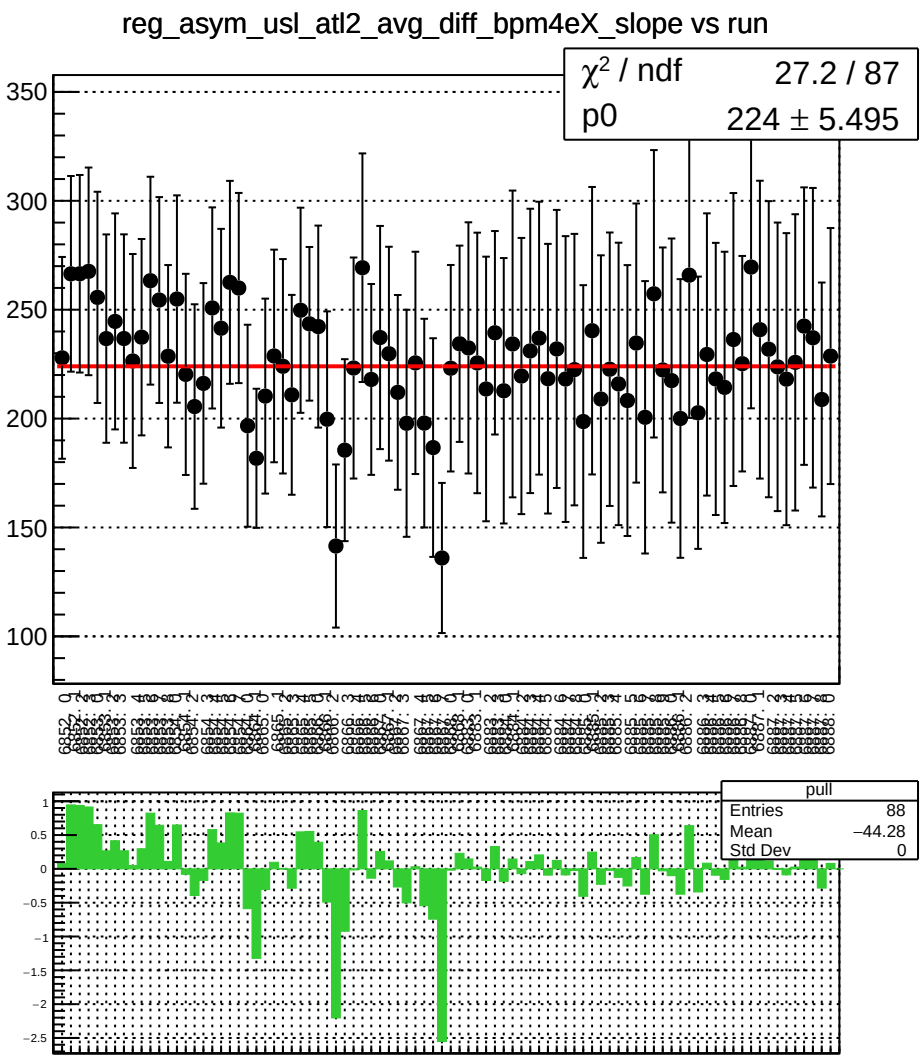

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 71.11 / 87
p0 −10.48 ± 0.05299
−8.5
−9
−9.5
−10
−10.5
−11
−11.5
−12
pull
Entries 88
Mean −294
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 88
Mean 0.01721
Std Dev 0.8988
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

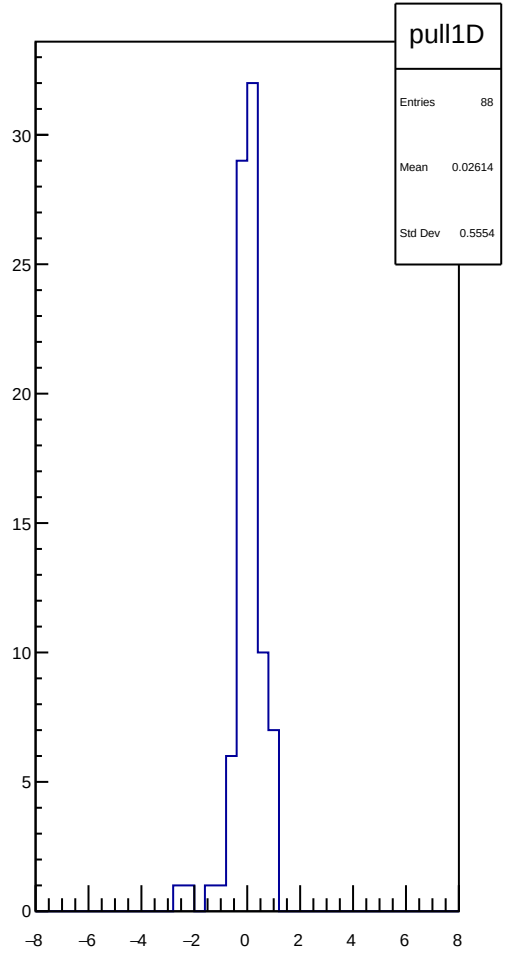

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 26.27 / 87
p0 −306.8 ± 5.783
−200
−250
−300
−350
−400
pull
Entries 88
Mean −398.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

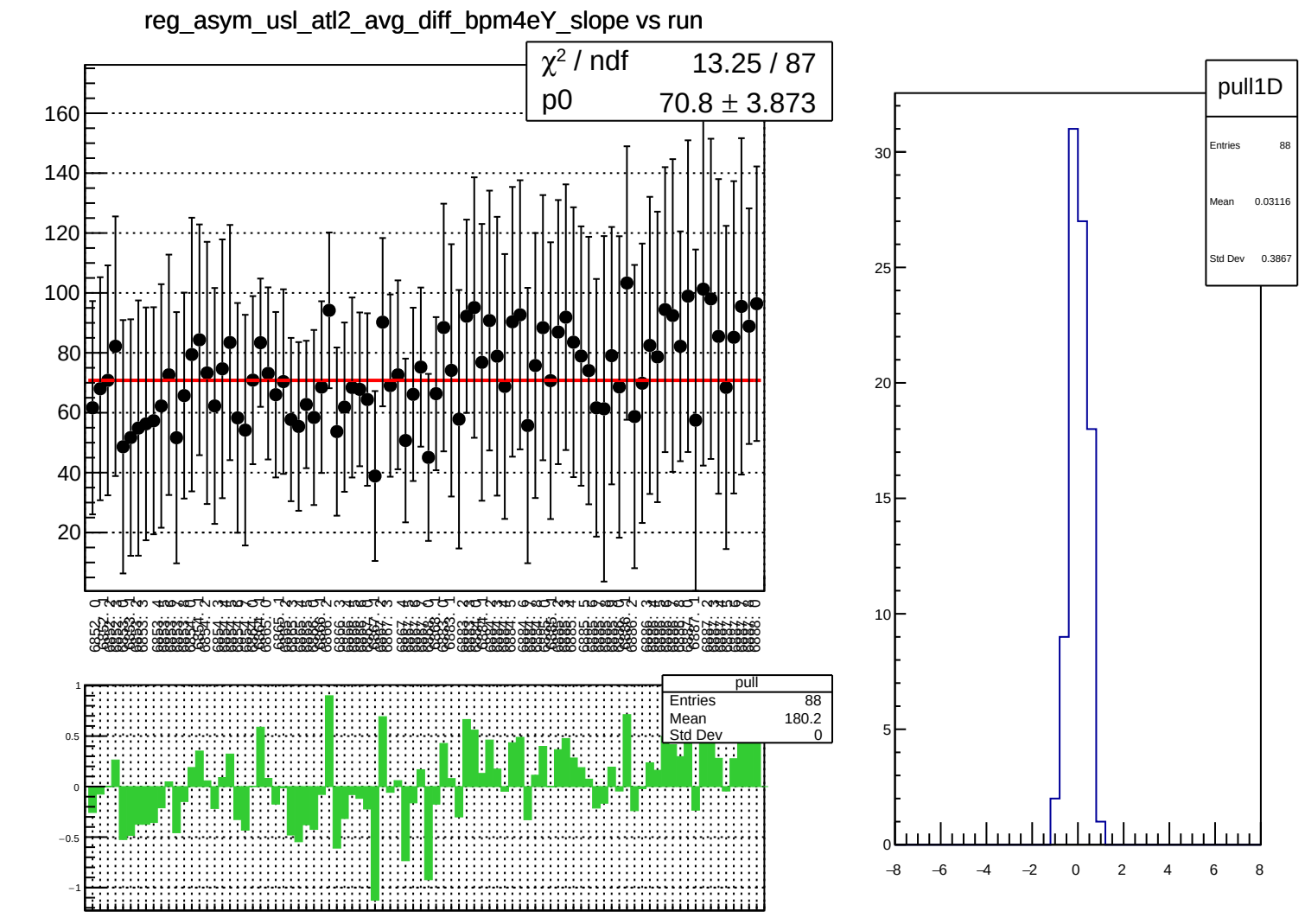

pull1D
Entries 88
Mean −0.009934
Std Dev 0.5463
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

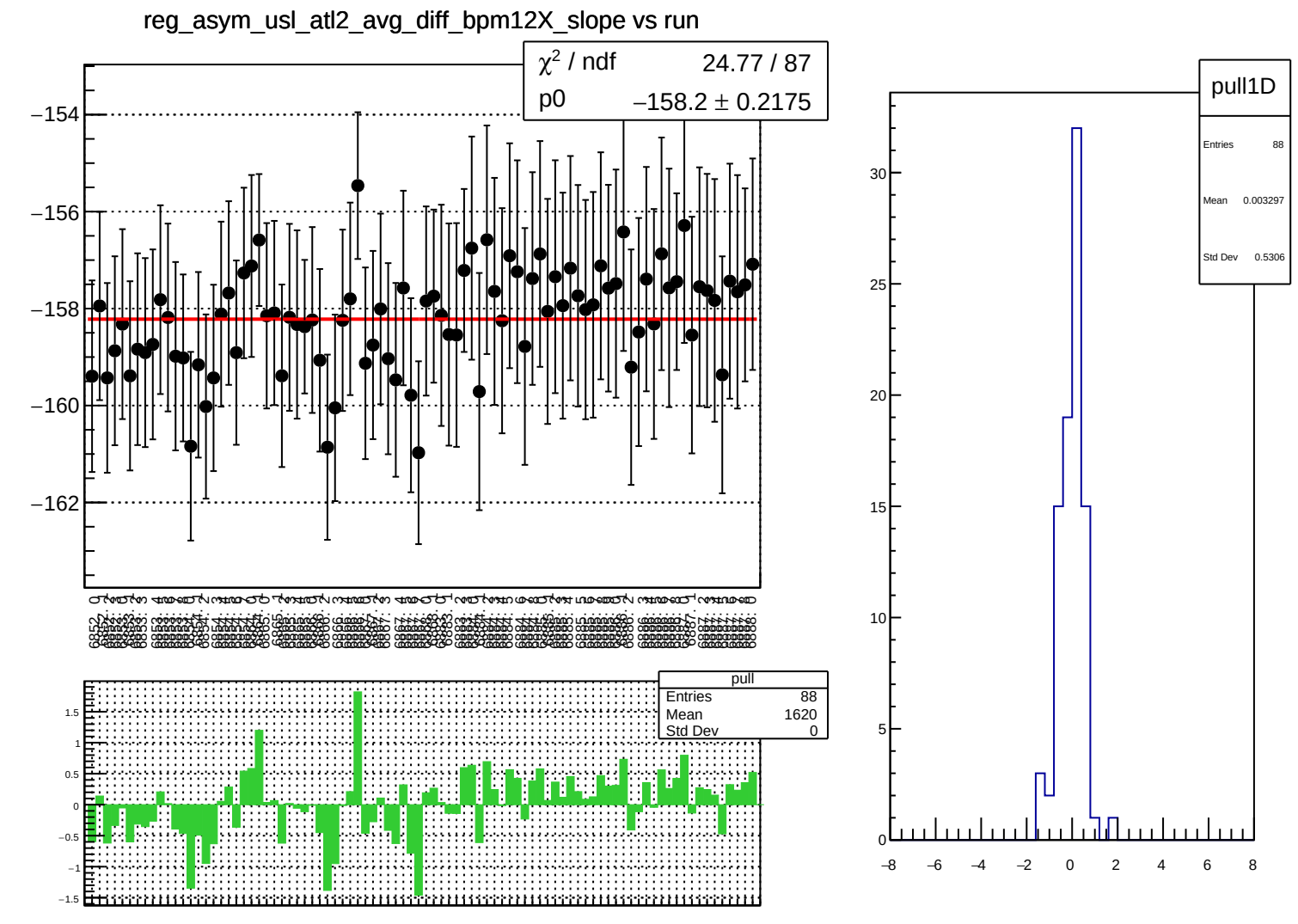

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.33 / 87
p0 6.233 ± 2.981
pull
Entries 88
Mean 168
Std Dev 0

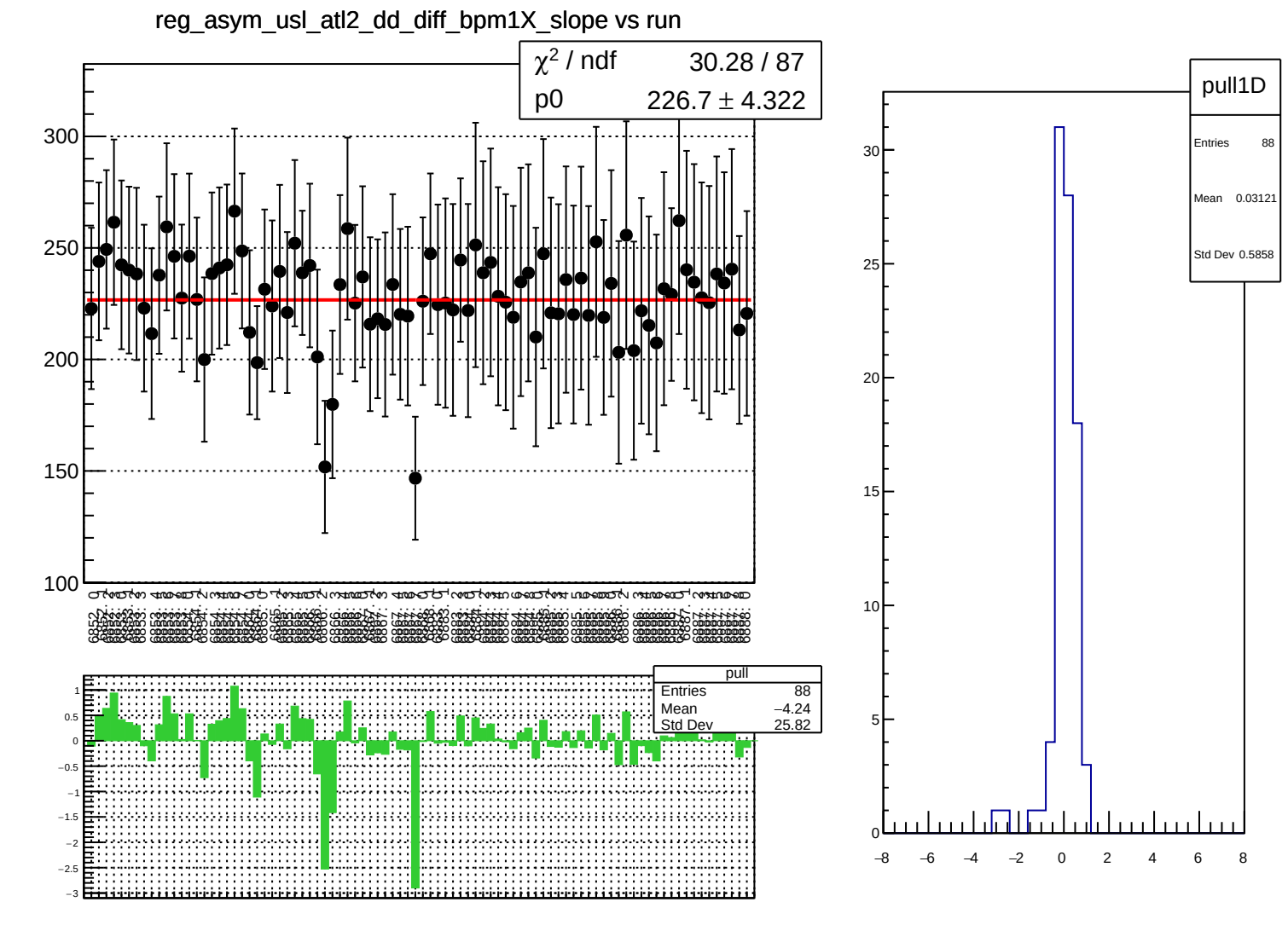

pull1D
Entries 88
Mean −0.04183
Std Dev 0.4153

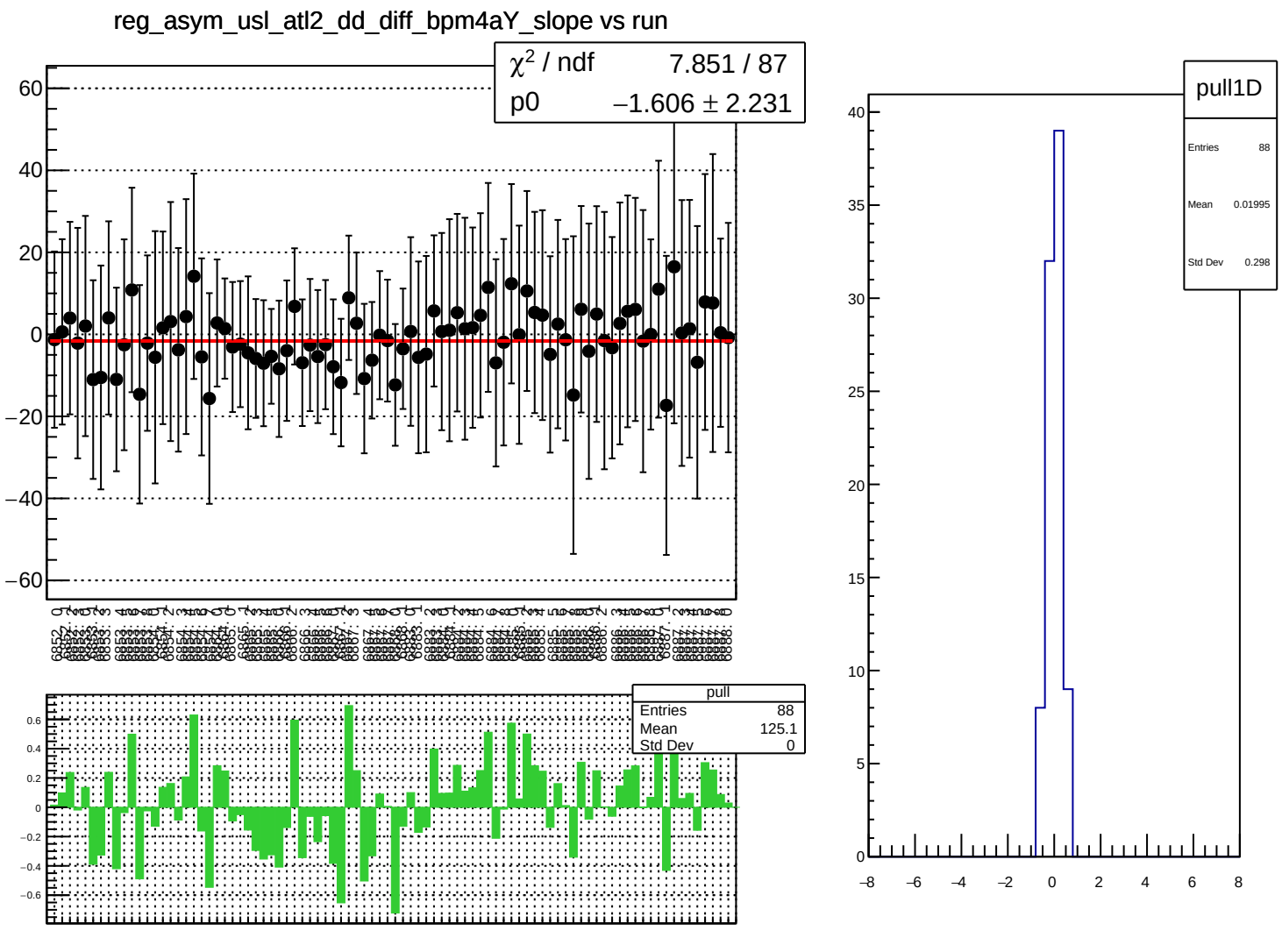

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.2 / 87
p0 224 ± 5.495
350
300
250
200
150
100
pull
Entries 88
Mean −44.28
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

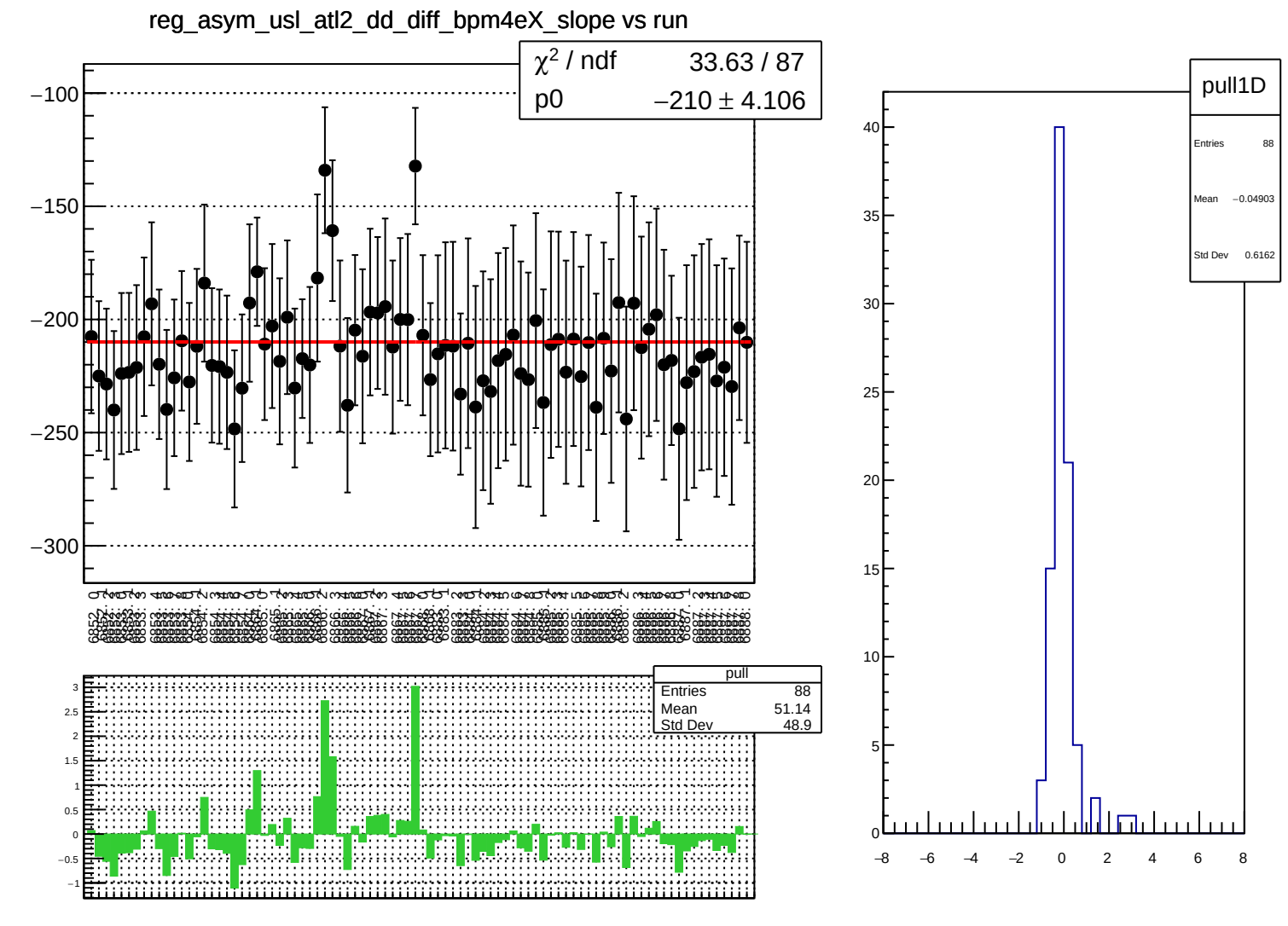

pull1D
Entries 88
Mean 0.02614
Std Dev 0.5554
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

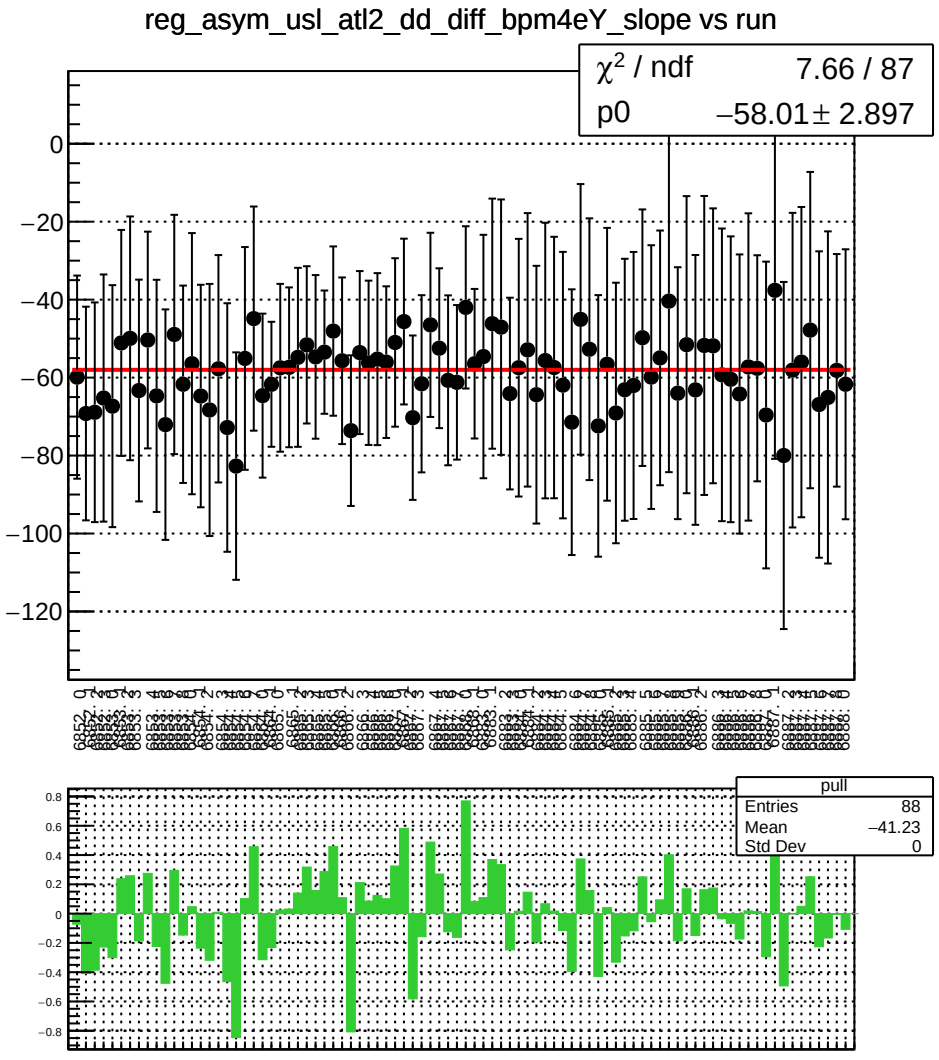

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.25 / 87
p0 70.8 ± 3.873
160
140
120
100
80
60
40
20
pull
Entries 88
Mean 180.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.03116
Std Dev 0.3867
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

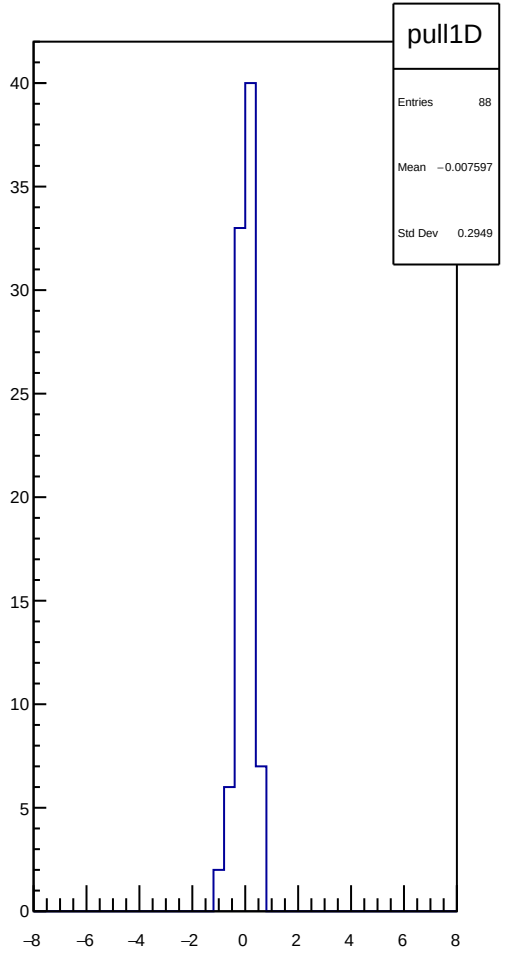

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 24.77 / 87
p0 −158.2 ± 0.2175
−154
−156
−158
−160
−162
pull
Entries 88
Mean 1620
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean 0.003297
Std Dev 0.5306
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

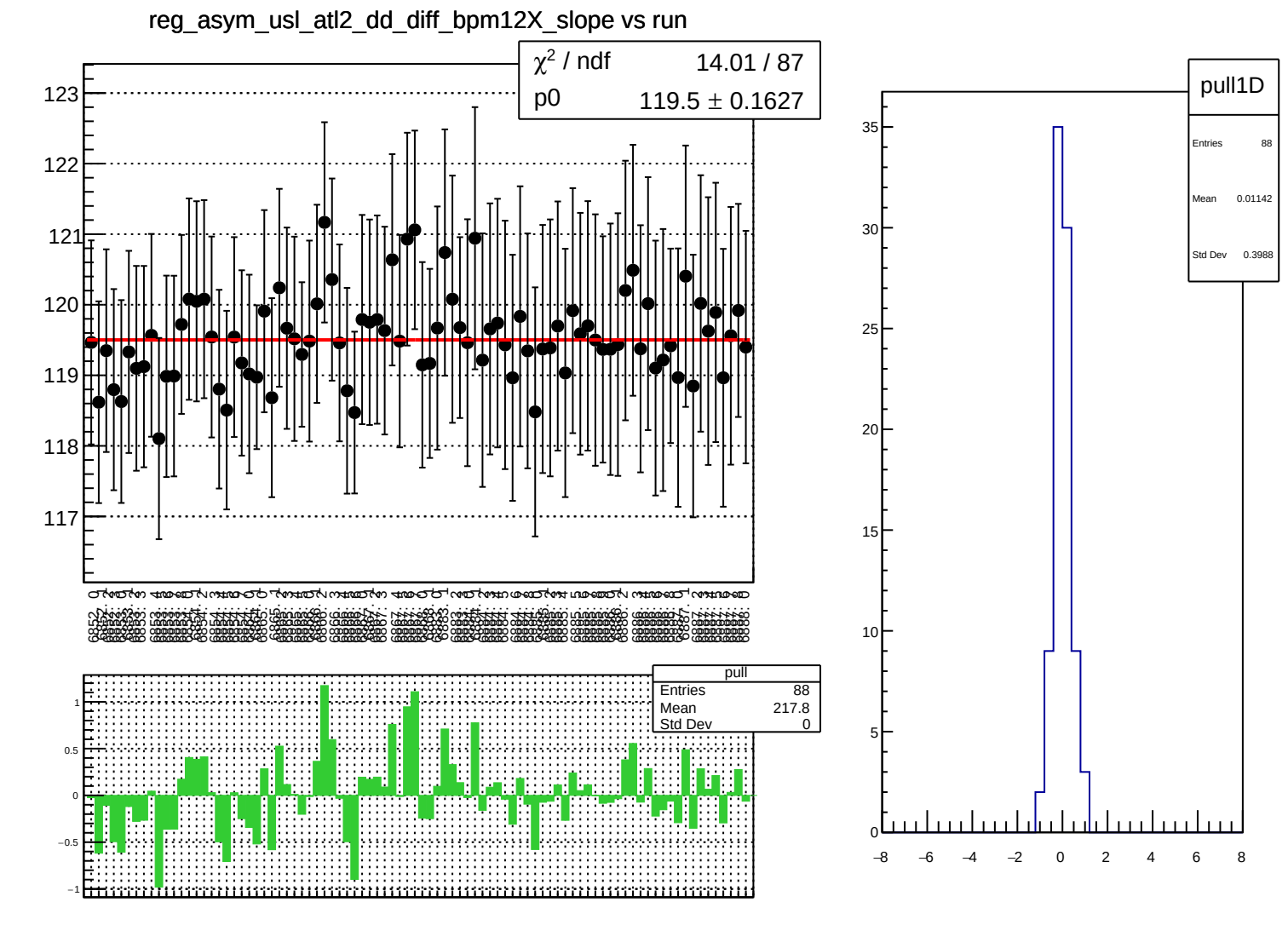

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 30.28 / 87
p0 226.7 ± 4.322
300
250
200
150
100
pull
Entries 88
Mean −4.24
Std Dev 25.82
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 88
Mean 0.03121
Std Dev 0.5858
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

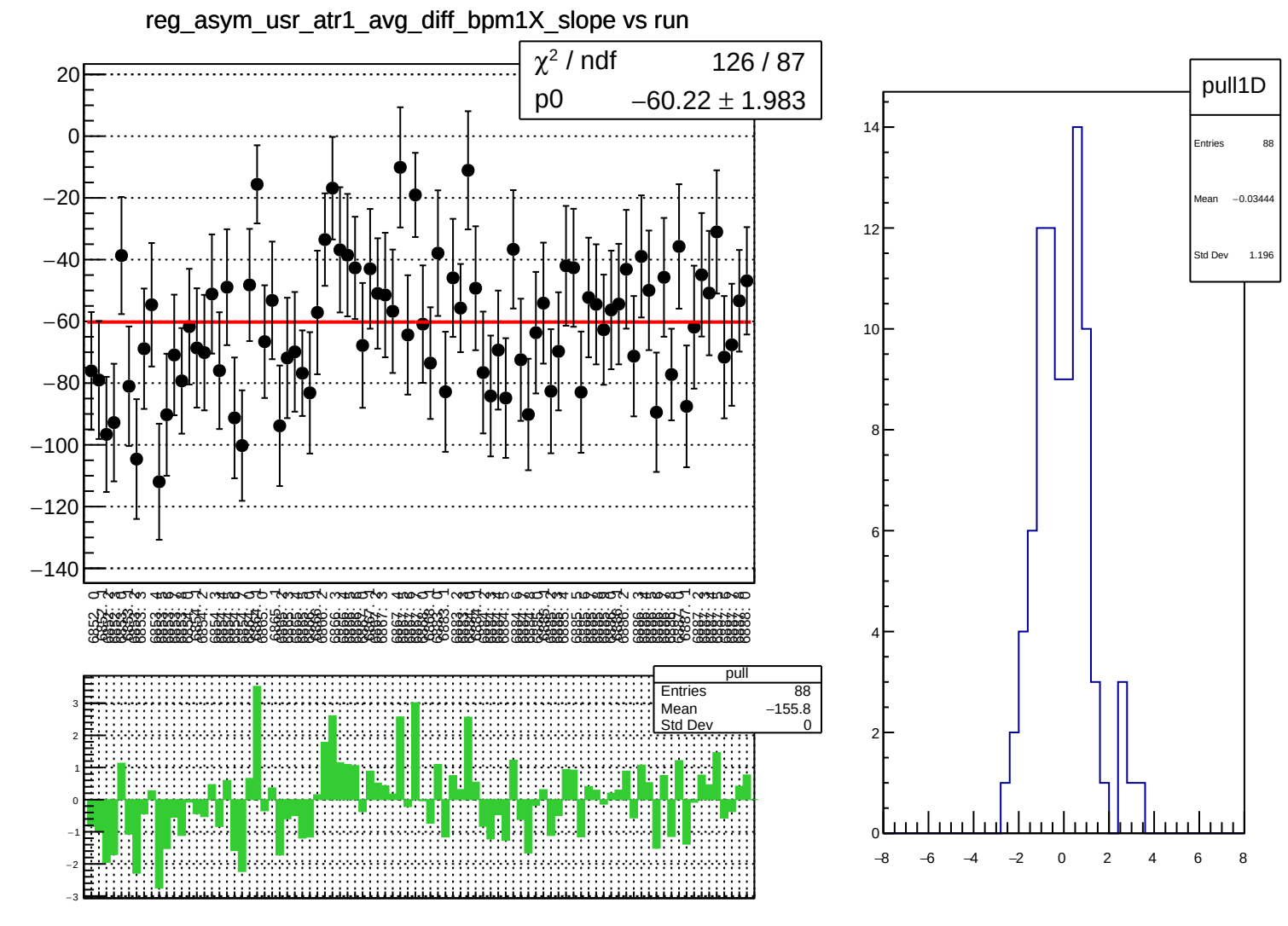

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.851 / 87
p0 −1.606 ± 2.231
pull
Entries 88
Mean 125.1
Std Dev 0
pull1D
Entries 88
Mean 0.01995
Std Dev 0.298

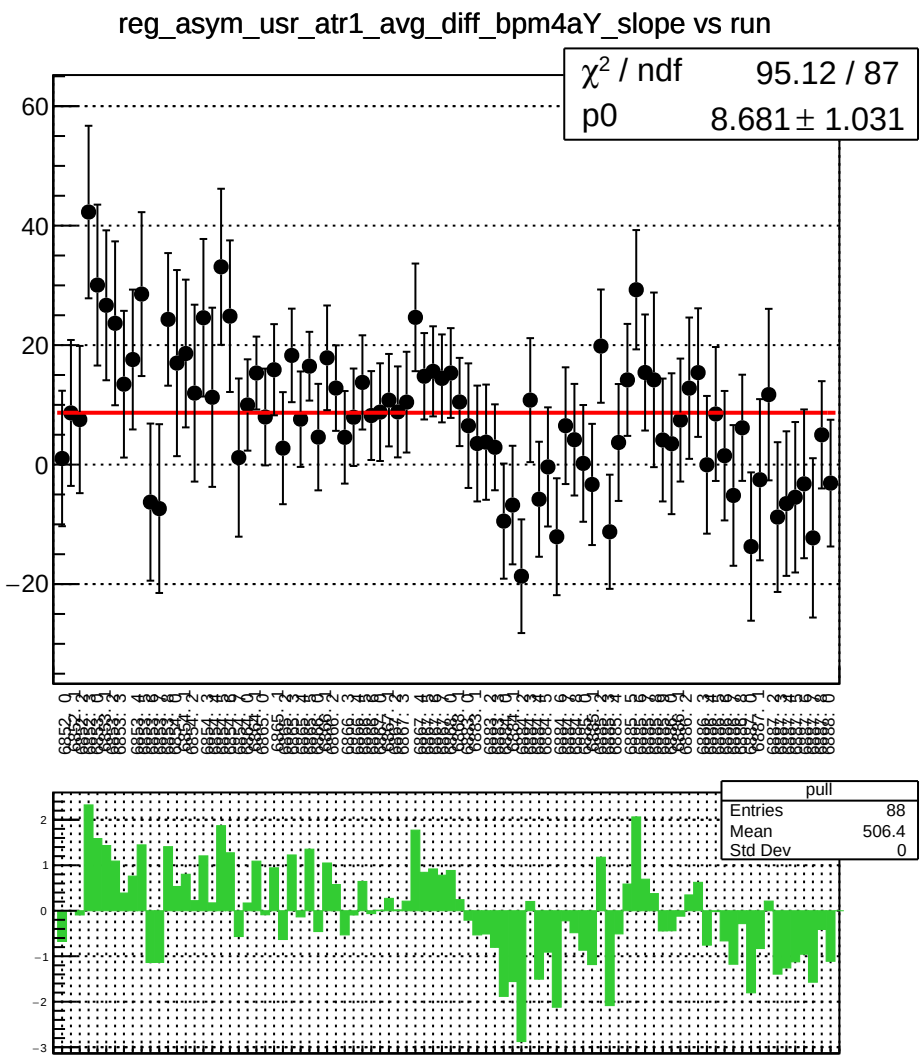

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.63 / 87
p0 −210 ± 4.106
−100
−150
−200
−250
−300
pull
Entries 88
Mean 51.14
Std Dev 48.9
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.04903
Std Dev 0.6162
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

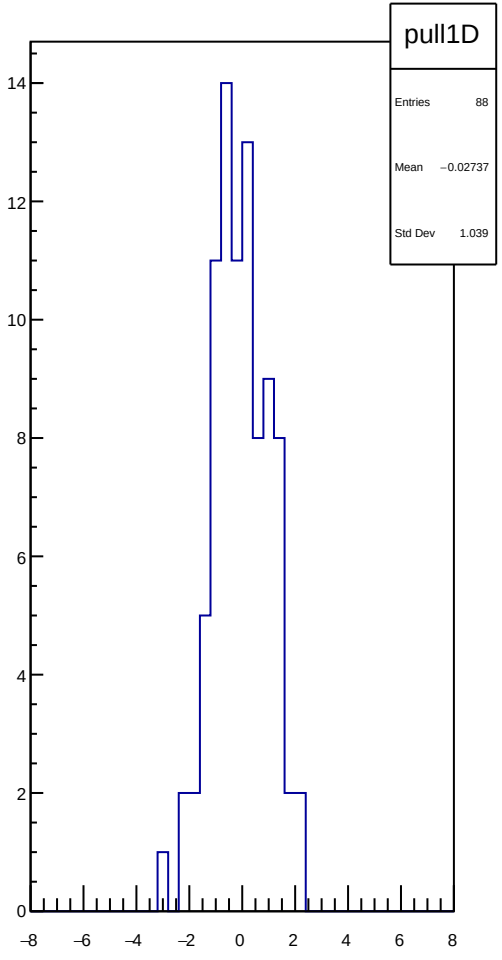

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.66 / 87
p0 −58.01 ± 2.897
0
−20
−40
−60
−80
−100
−120
pull
Entries 88
Mean −41.23
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

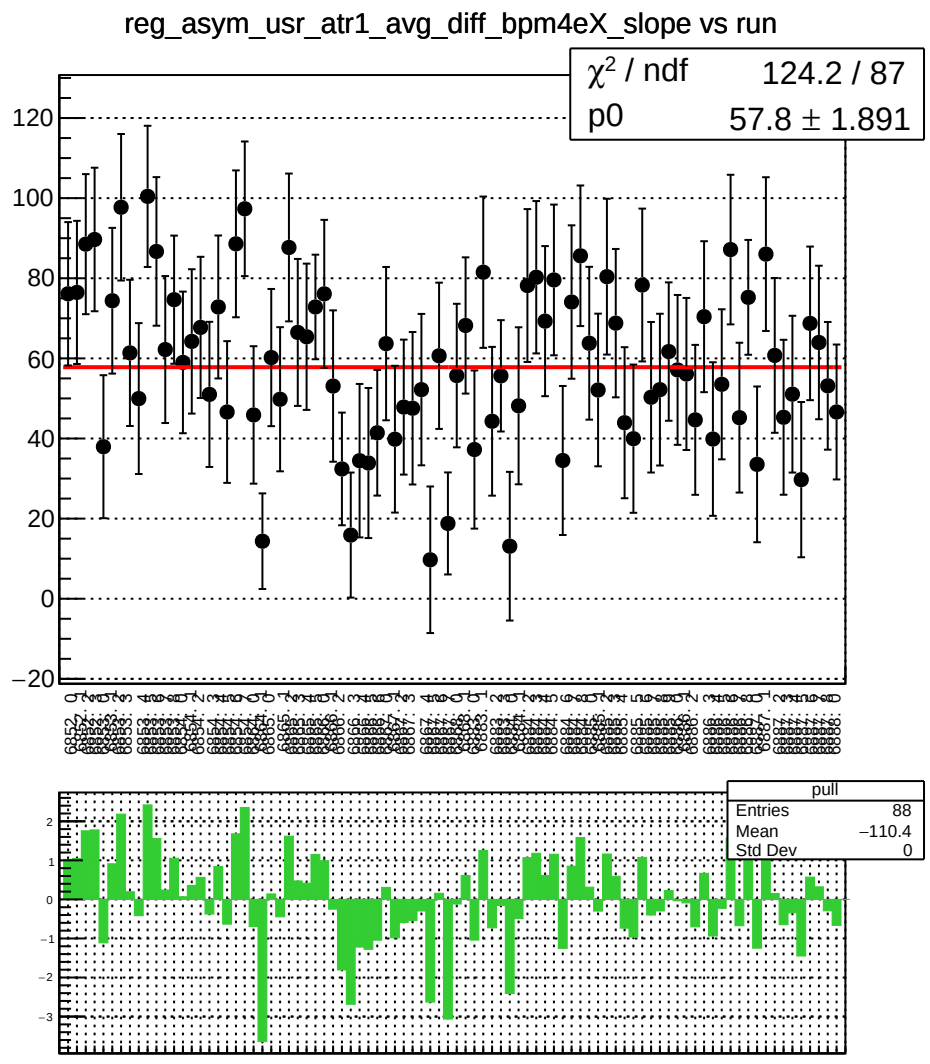

pull1D
Entries 88
Mean −0.007597
Std Dev 0.2949
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

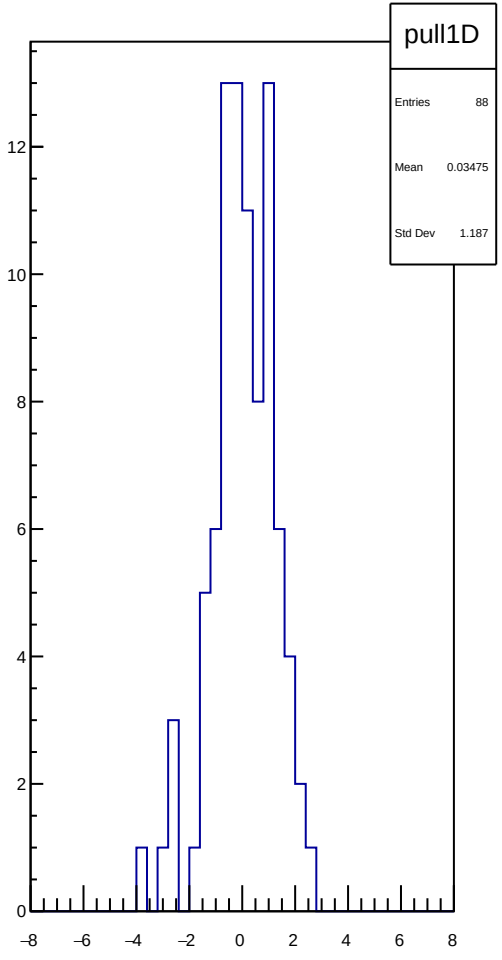

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 14.01 / 87
p0 119.5 ± 0.1627
123
122
121
120
119
118
117
pull
Entries 88
Mean 217.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.01142
Std Dev 0.3988
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

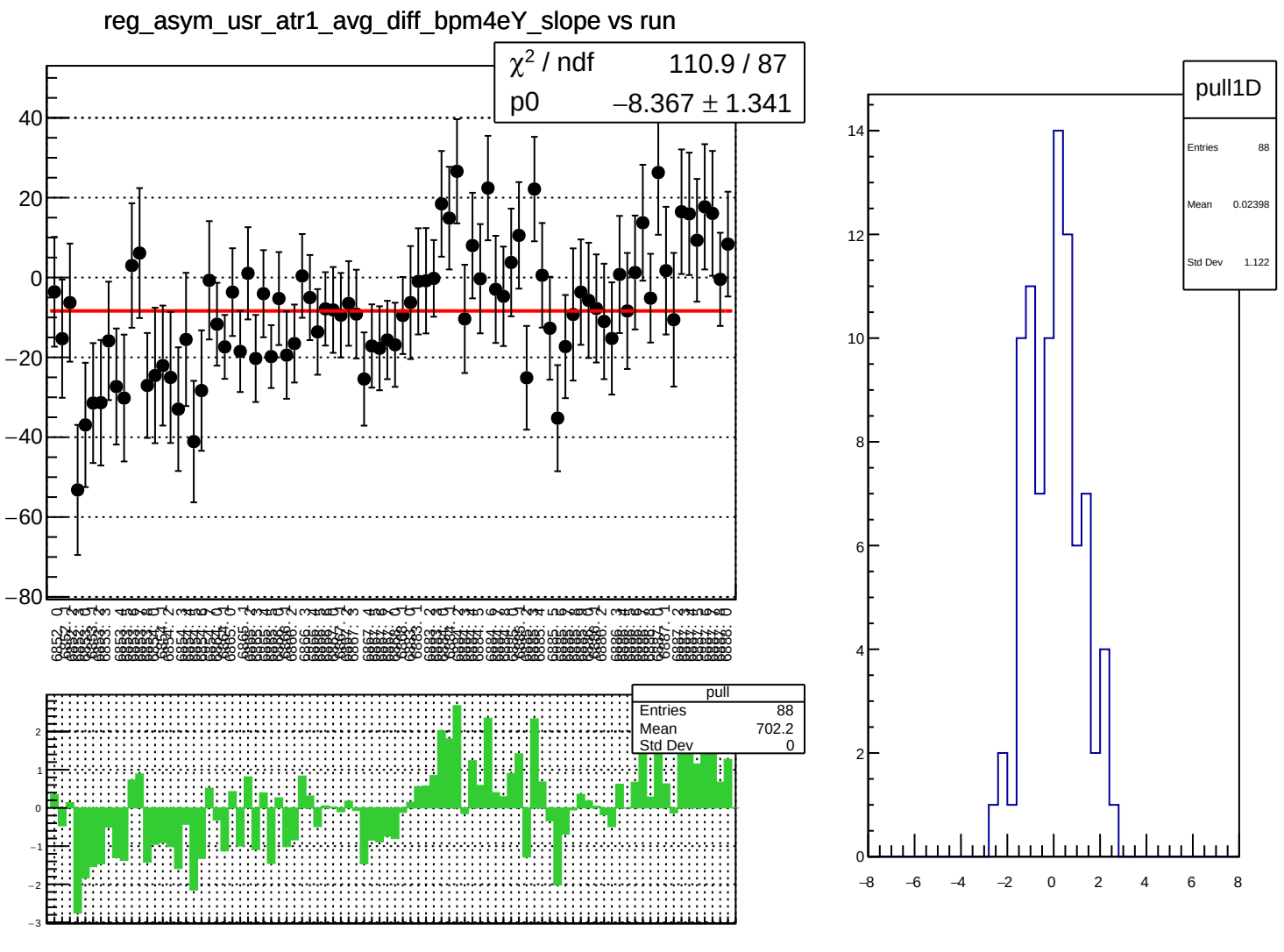

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 126 / 87
p0 −60.22 ± 1.983
pull
Entries 88
Mean −155.8
Std Dev 0
pull1D
Entries 88
Mean −0.03444
Std Dev 1.196

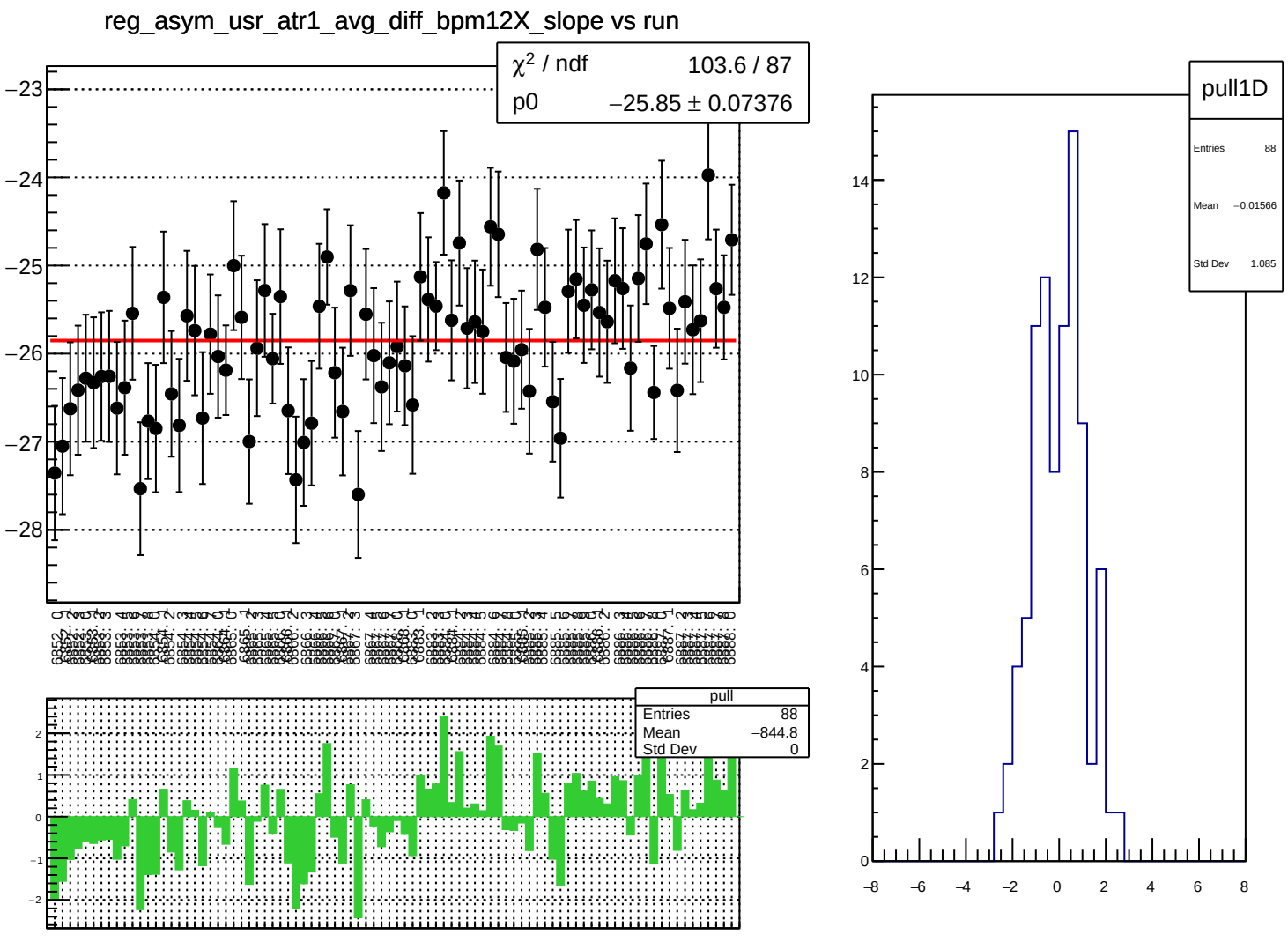

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 95.12 / 87
p0 8.681 ± 1.031
pull
Entries 88
Mean 506.4
Std Dev 0

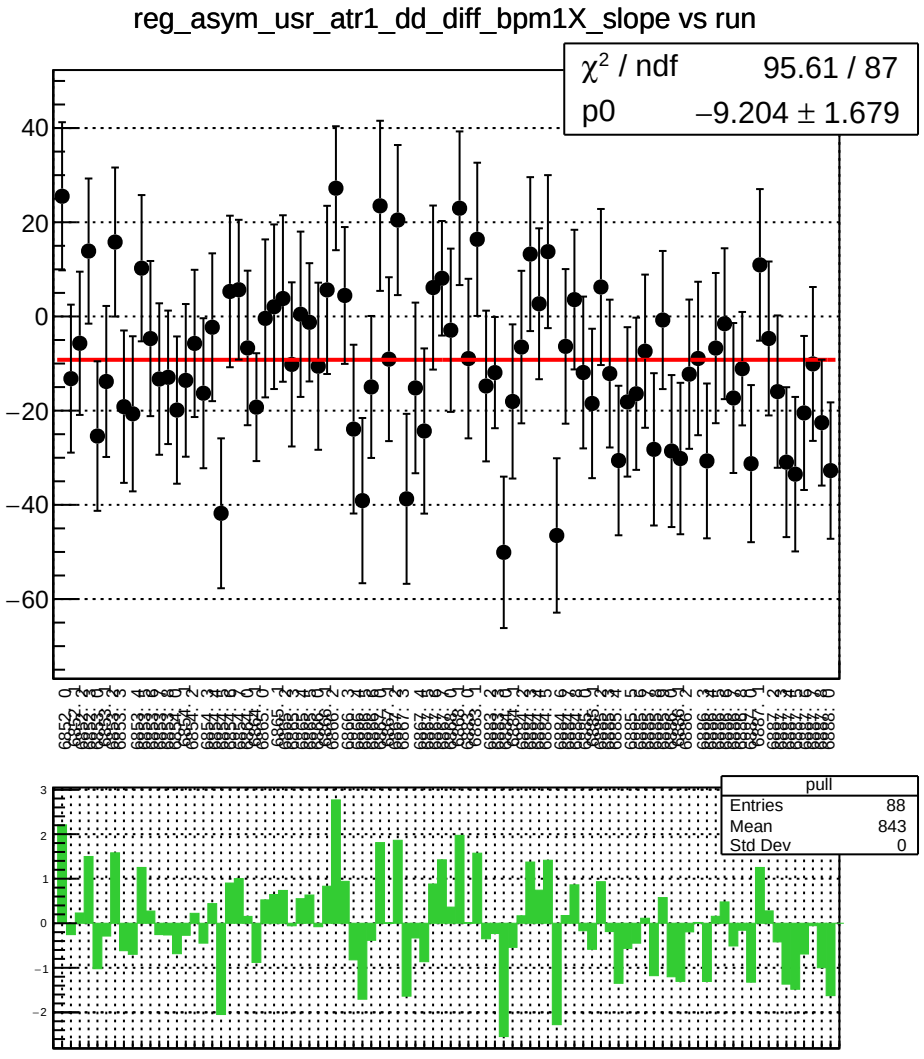

pull1D
Entries 88
Mean −0.02737
Std Dev 1.039

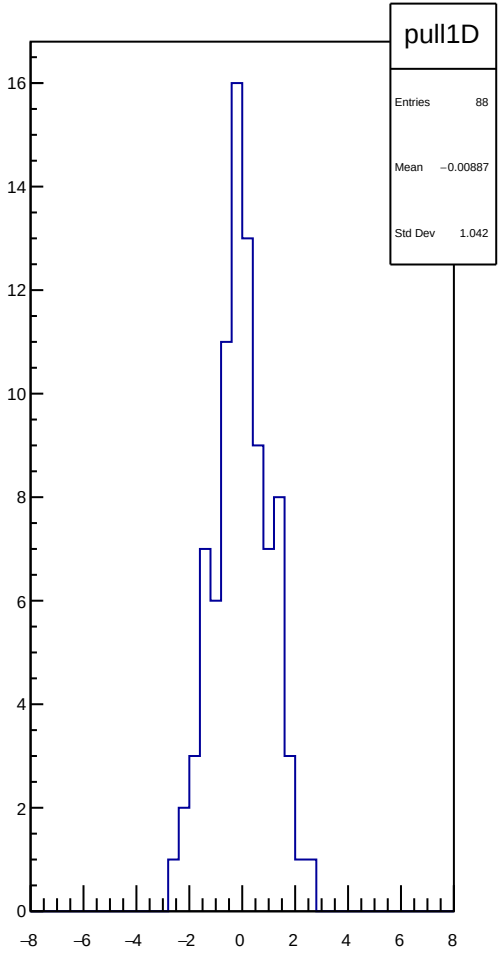

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 124.2 / 87
p0 57.8 ± 1.891
pull
Entries 88
Mean −110.4
Std Dev 0

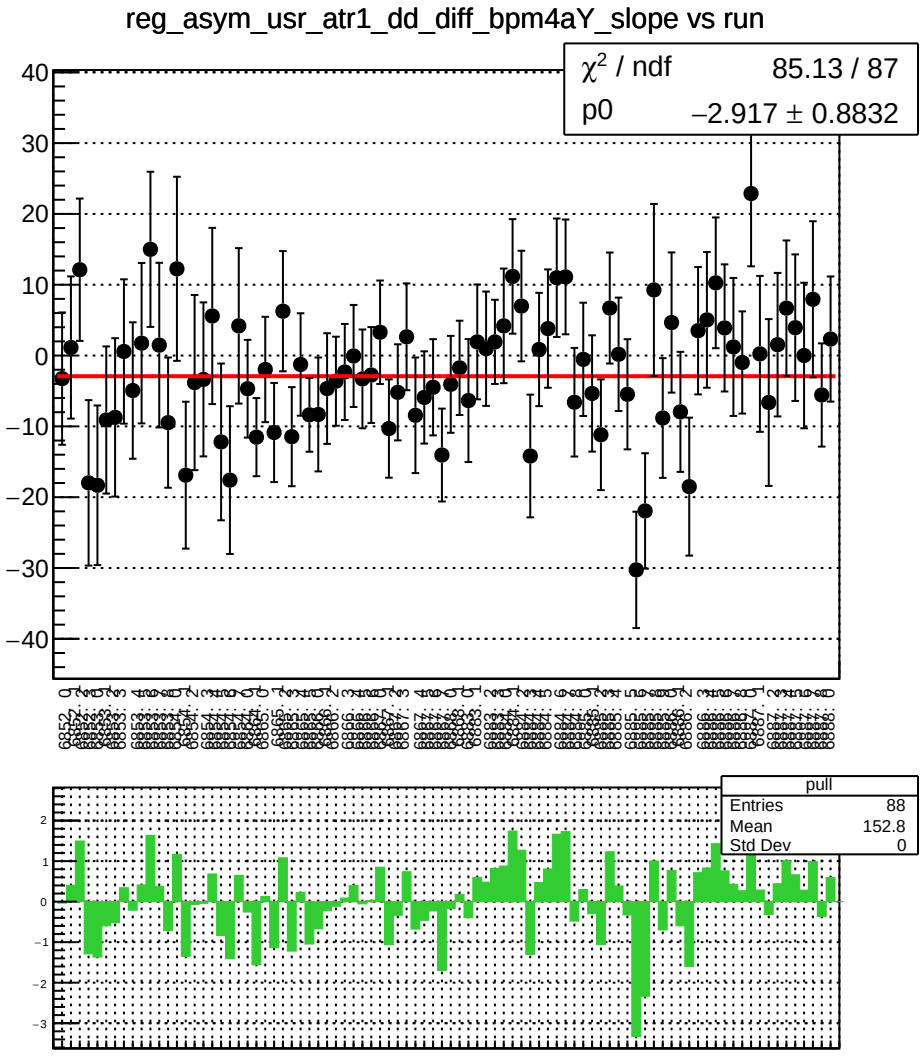

pull1D
Entries 88
Mean 0.03475
Std Dev 1.187

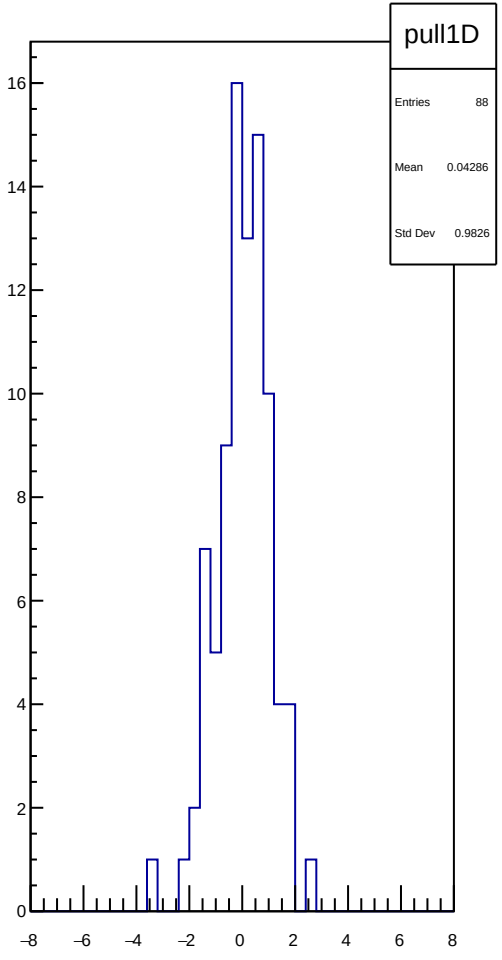

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 110.9 / 87
p0 −8.367 ± 1.341
pull
Entries 88
Mean 702.2
Std Dev 0
pull1D
Entries 88
Mean 0.02398
Std Dev 1.122

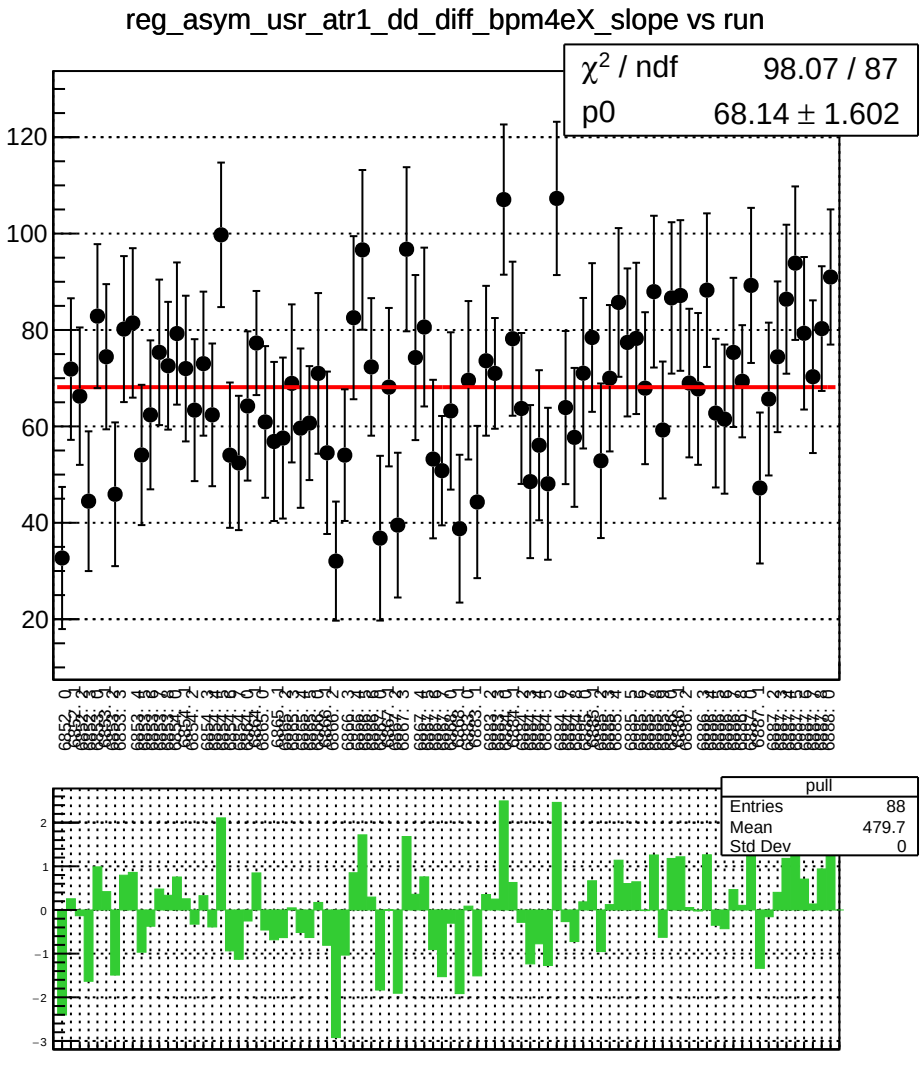

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 103.6 / 87
p0 −25.85 ± 0.07376
pull
Entries 88
Mean −844.8
Std Dev 0
pull1D
Entries 88
Mean −0.01566
Std Dev 1.085

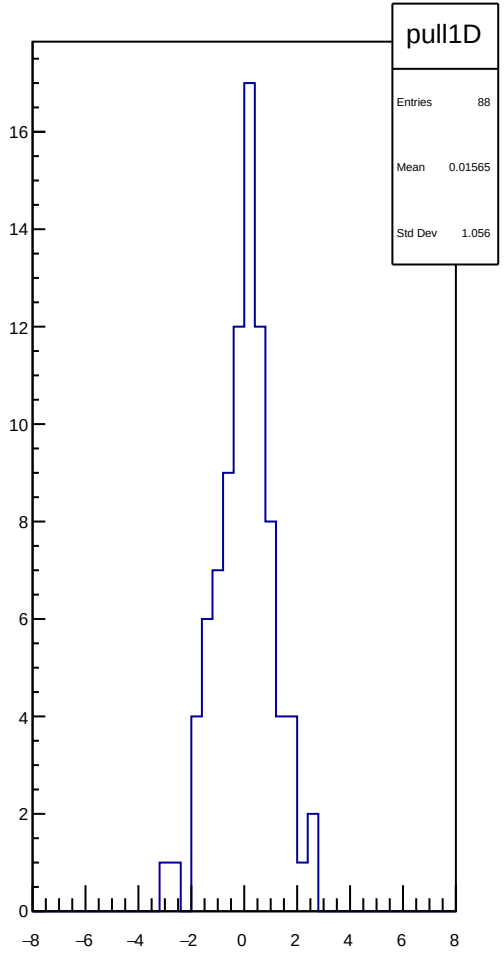

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 95.61 / 87
p0 −9.204 ± 1.679
pull
Entries 88
Mean 843
Std Dev 0

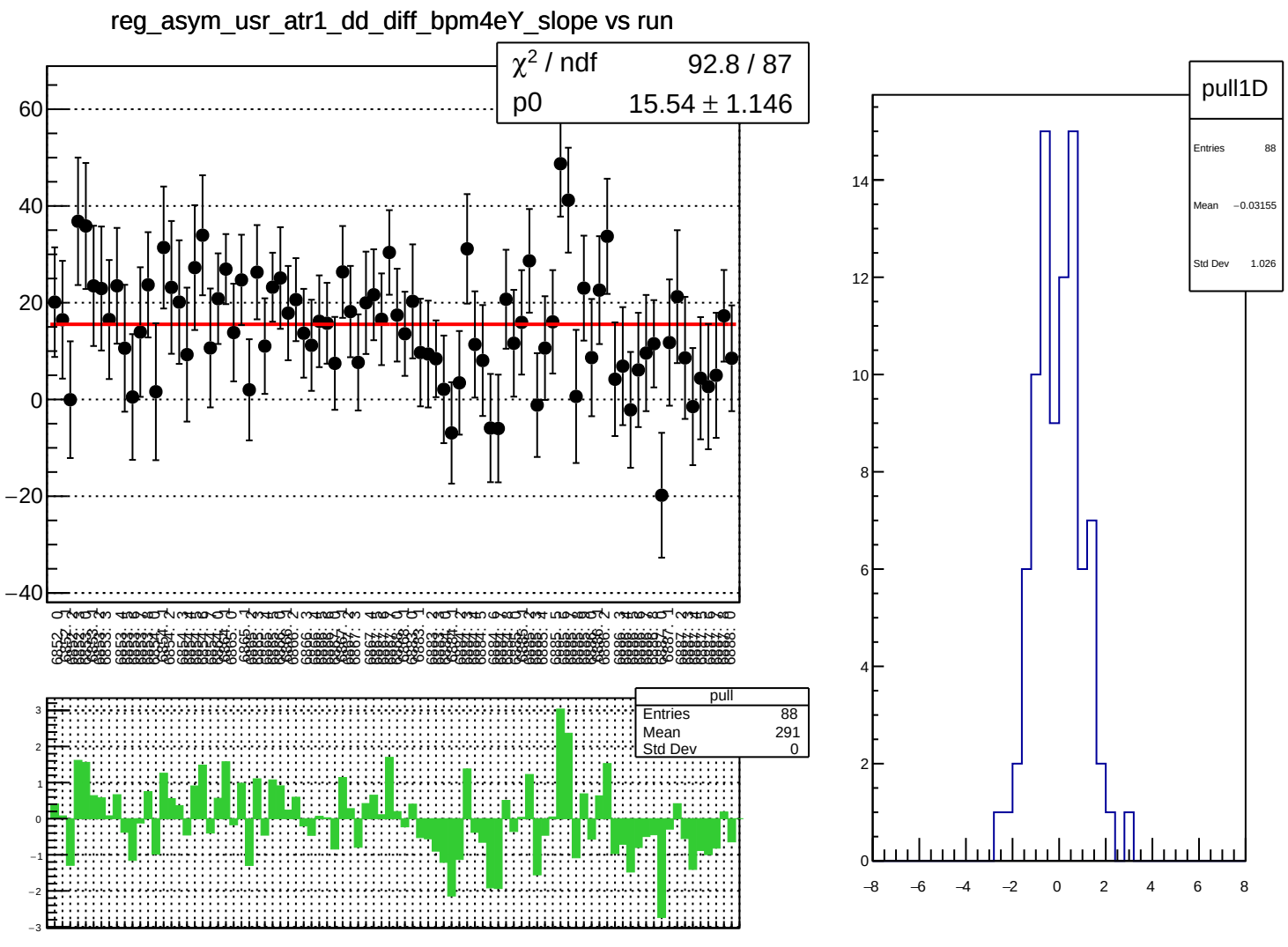

pull1D
Entries 88
Mean −0.00887
Std Dev 1.042

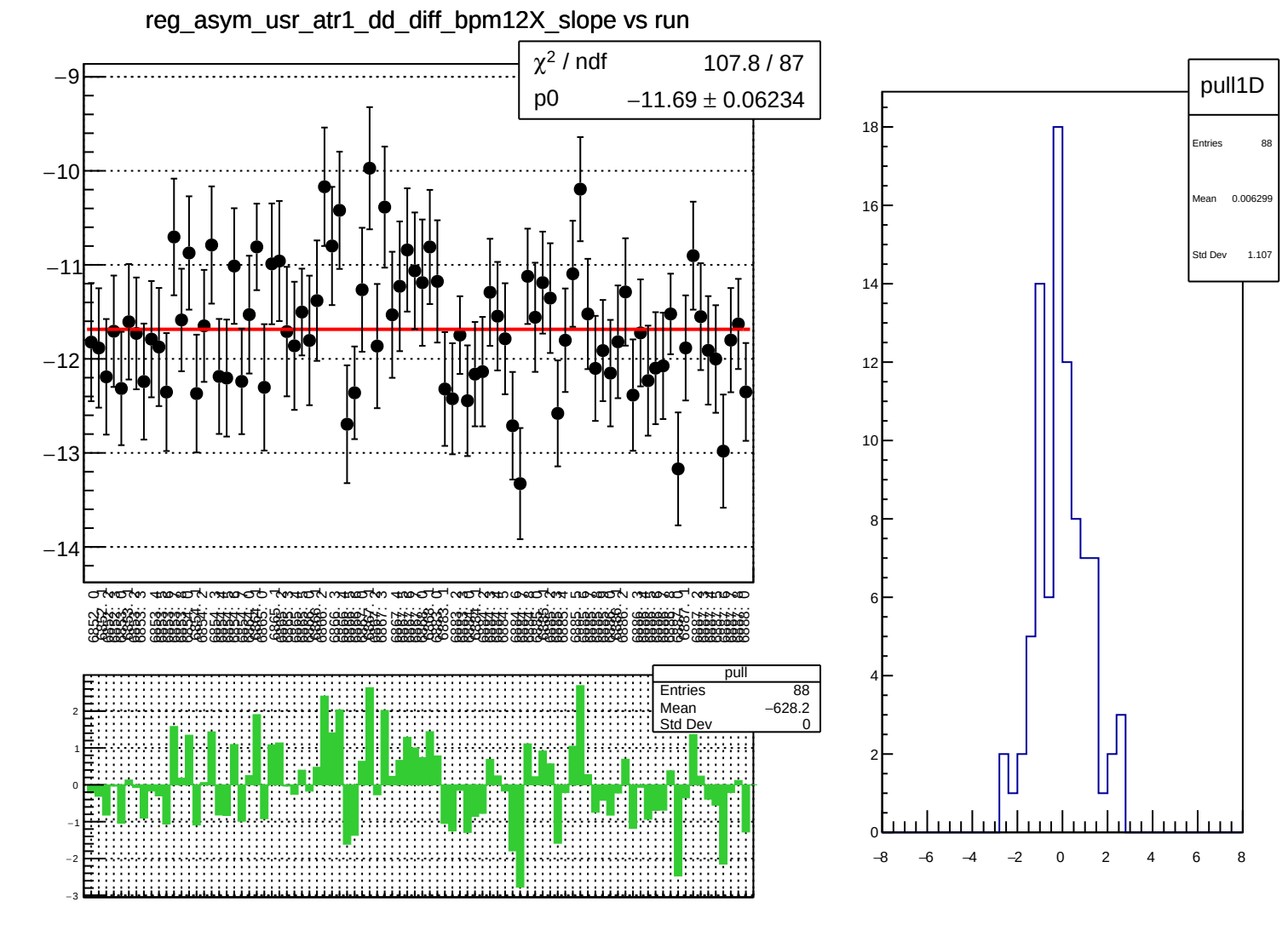

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.13 / 87
p0 −2.917 ± 0.8832
pull
Entries 88
Mean 152.8
Std Dev 0

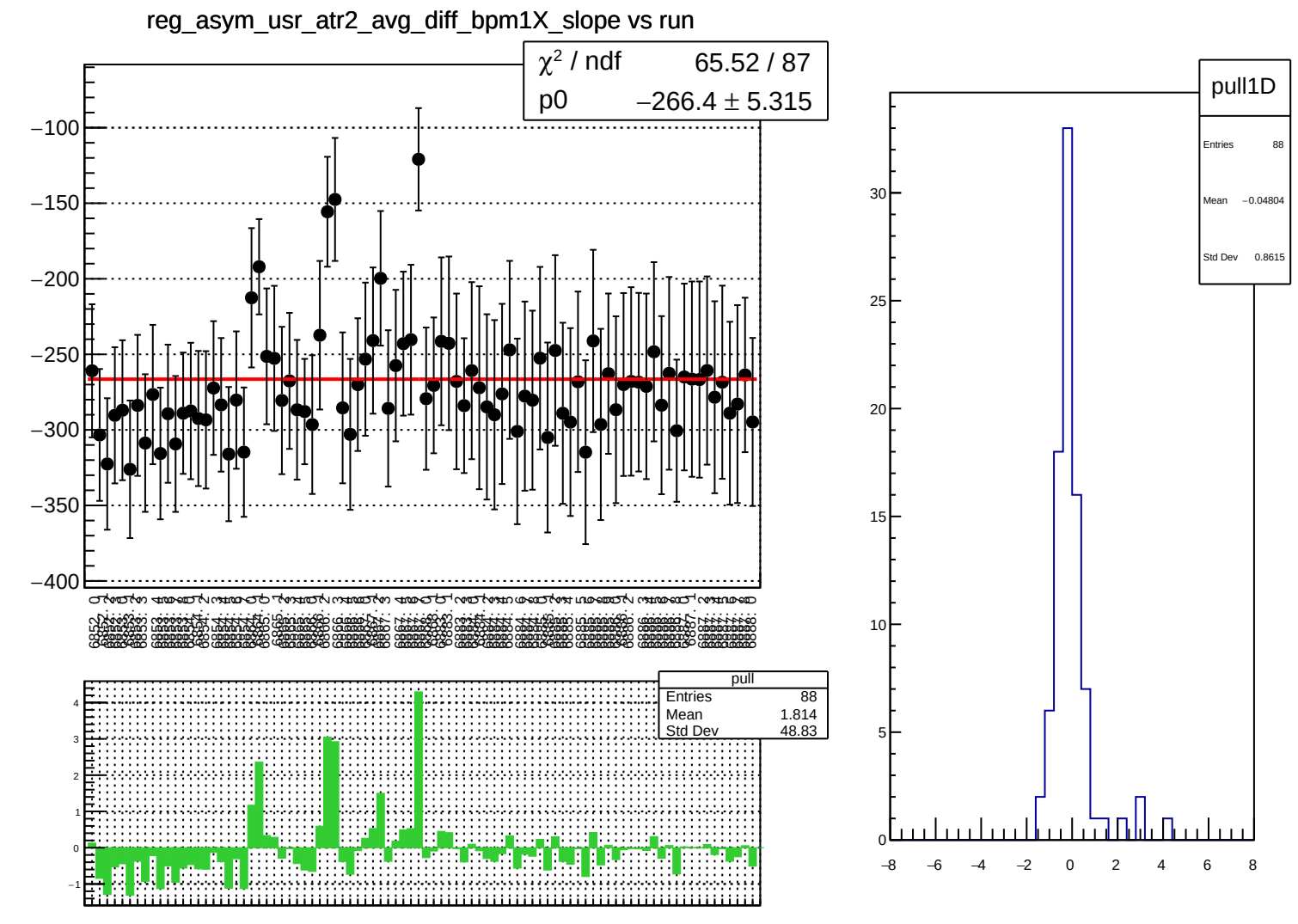

pull1D
Entries 88
Mean 0.04286
Std Dev 0.9826

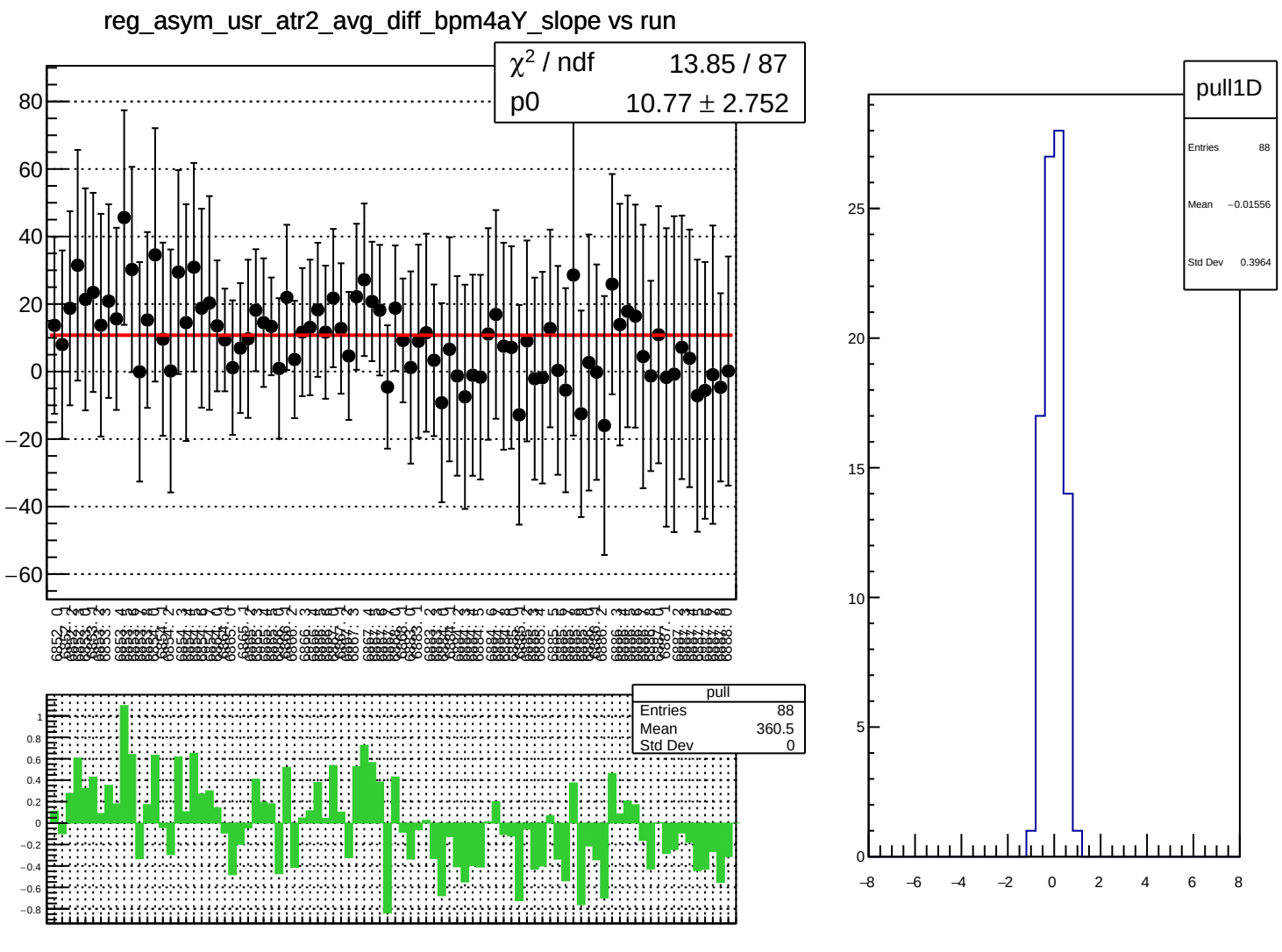

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 98.07 / 87
p0 68.14 ± 1.602
120
100
80
60
40
20
pull
Entries 88
Mean 479.7
Std Dev 0
2
1
0
−1
−2
−3

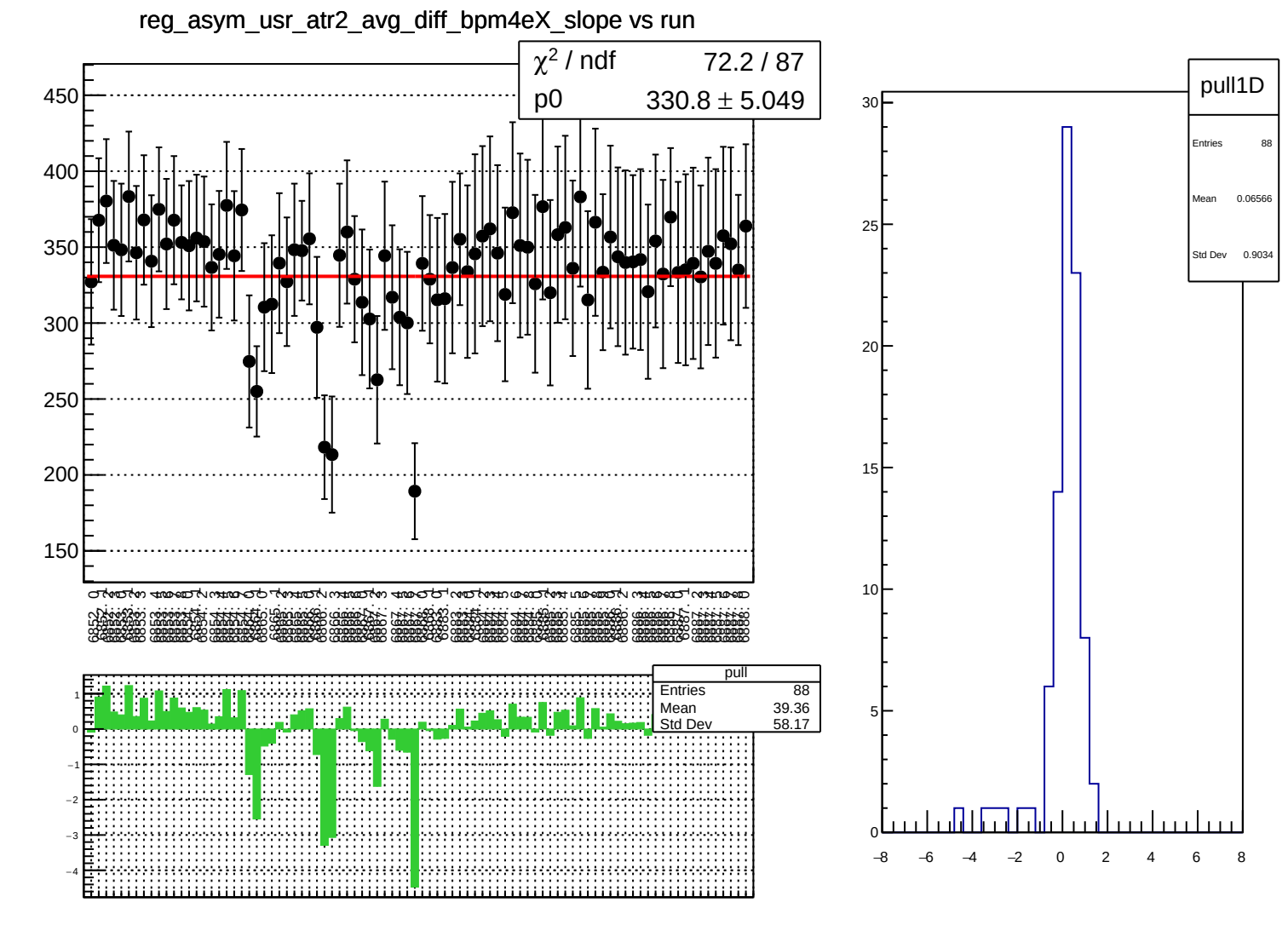

pull1D
Entries 88
Mean 0.01565
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

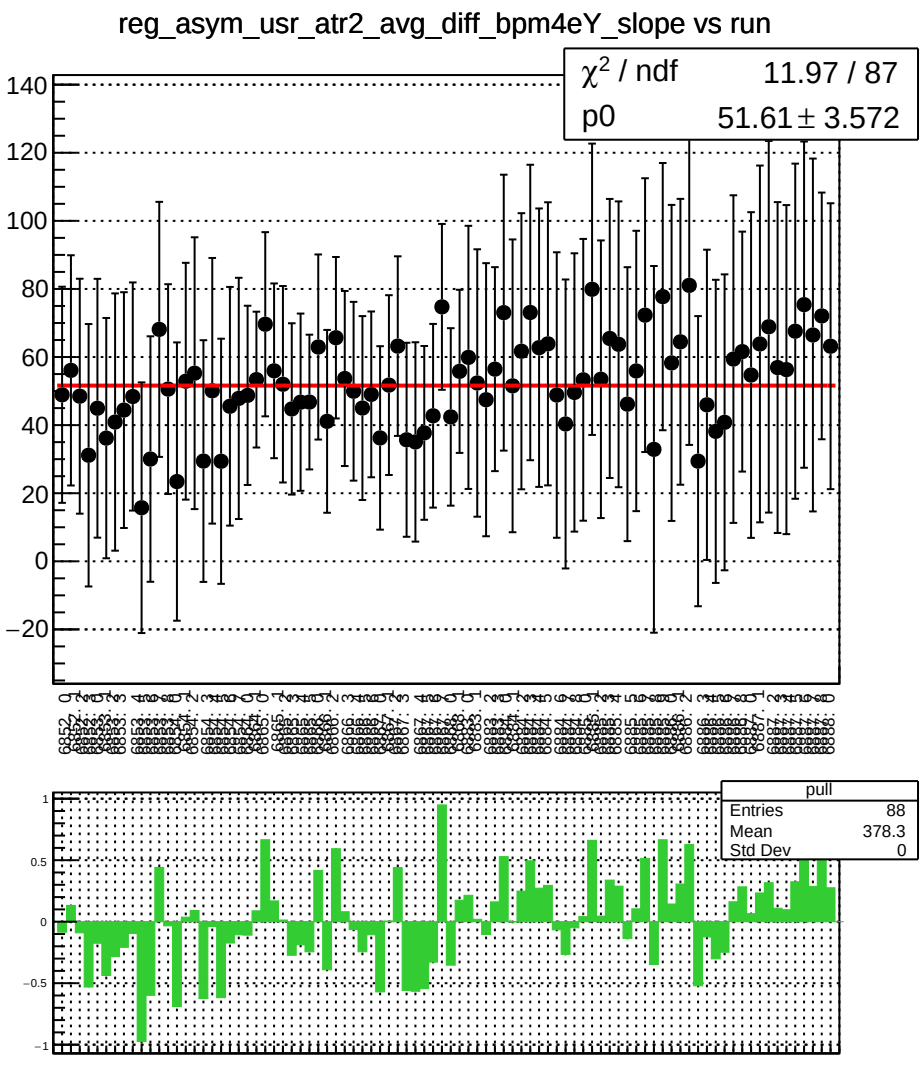

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.8 / 87
p0 15.54 ± 1.146
pull
Entries 88
Mean 291
Std Dev 0
pull1D
Entries 88
Mean −0.03155
Std Dev 1.026

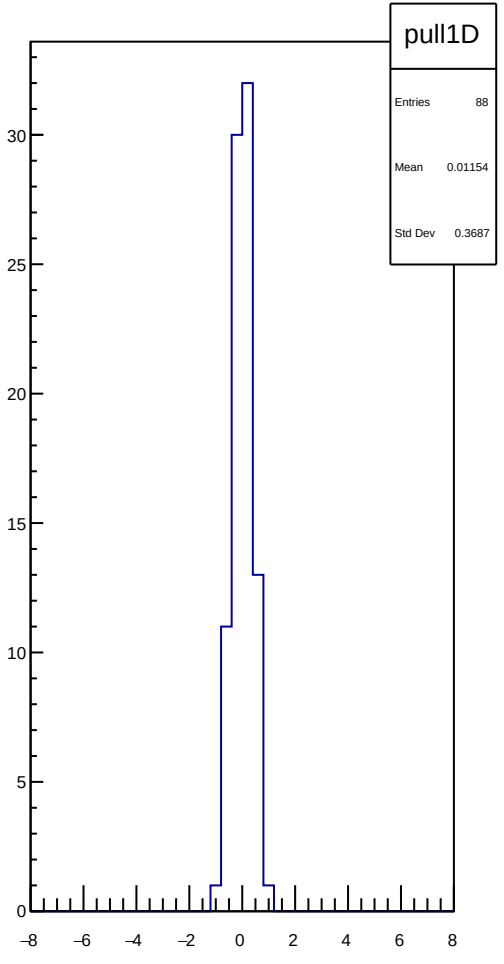

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 107.8 / 87
p0 −11.69 ± 0.06234
pull
Entries 88
Mean −628.2
Std Dev 0
pull1D
Entries 88
Mean 0.006299
Std Dev 1.107

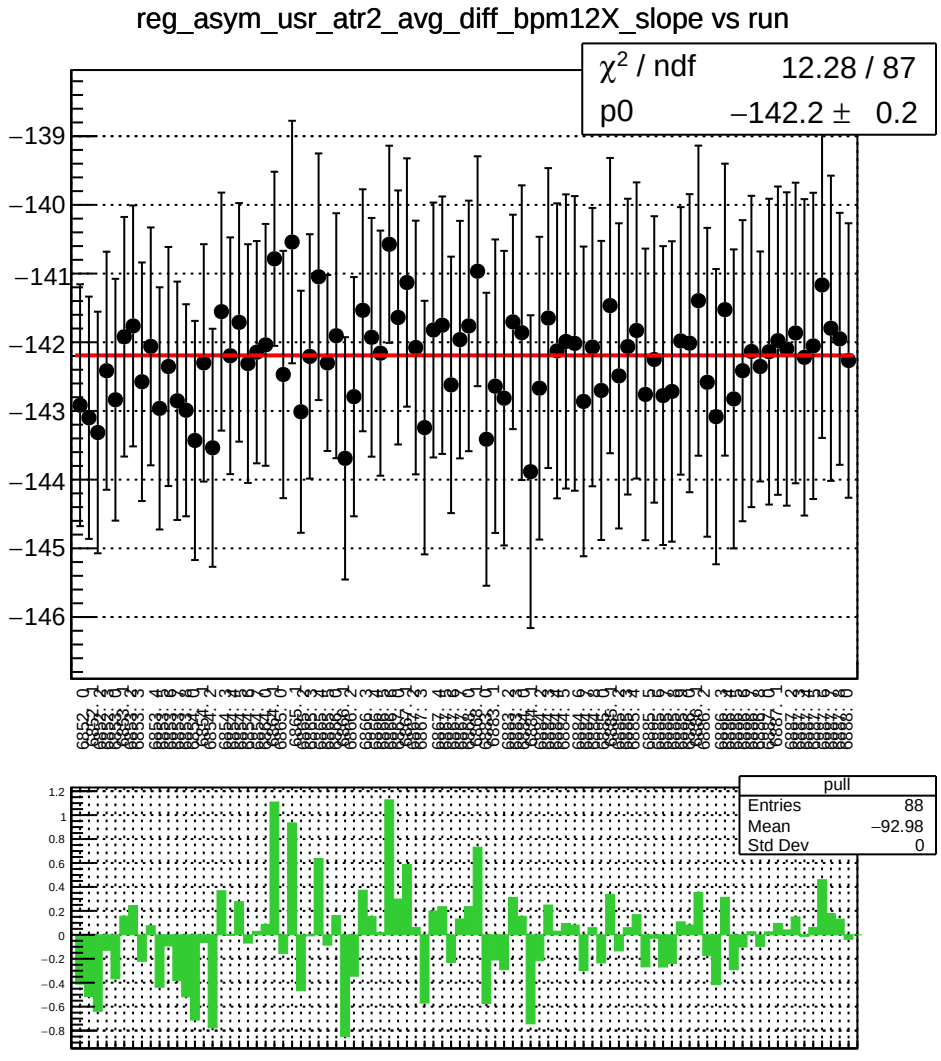

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 65.52 / 87
p0 −266.4 ± 5.315
−100
−150
−200
−250
−300
−350
−400
pull
Entries 88
Mean 1.814
Std Dev 48.83
4
3
2
1
0
−1
pull1D
Entries 88
Mean −0.04804
Std Dev 0.8615
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

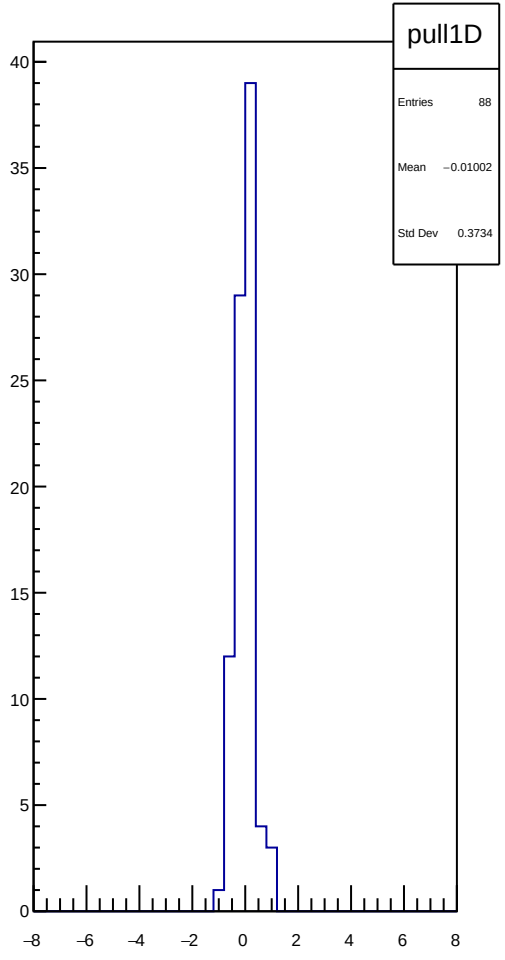

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.85 / 87
p0 10.77 ± 2.752
pull
Entries 88
Mean 360.5
Std Dev 0
pull1D
Entries 88
Mean −0.01556
Std Dev 0.3964

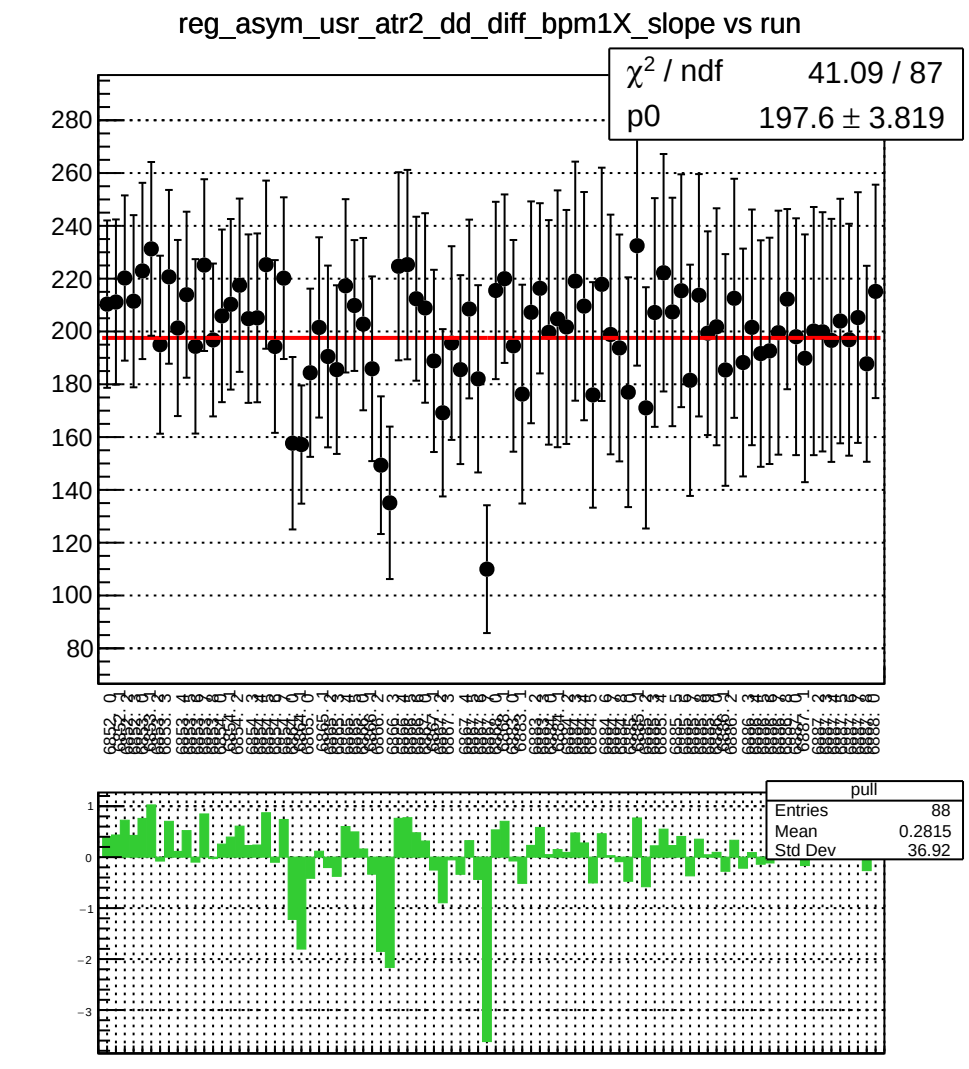

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.2 / 87
p0 330.8 ± 5.049
pull
Entries 88
Mean 39.36
Std Dev 58.17
pull1D
Entries 88
Mean 0.06566
Std Dev 0.9034

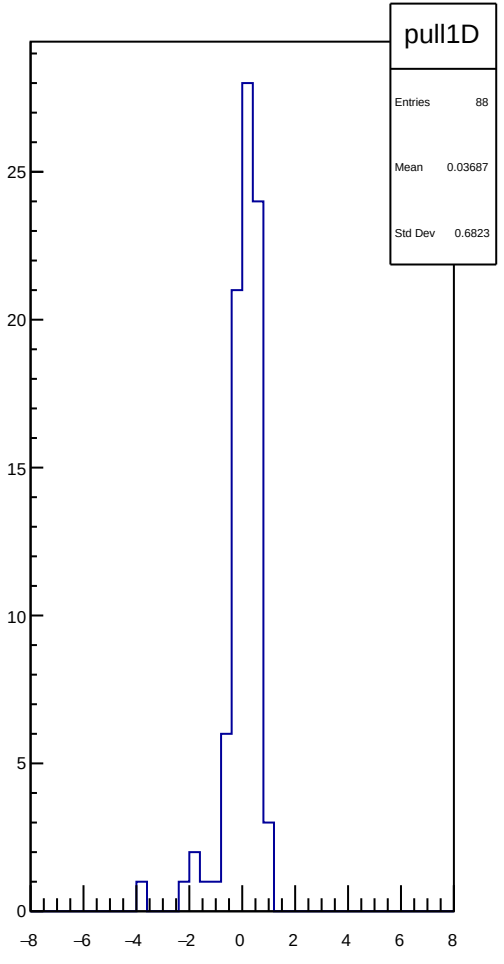

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.97 / 87
p0 51.61 ± 3.572
pull
Entries 88
Mean 378.3
Std Dev 0

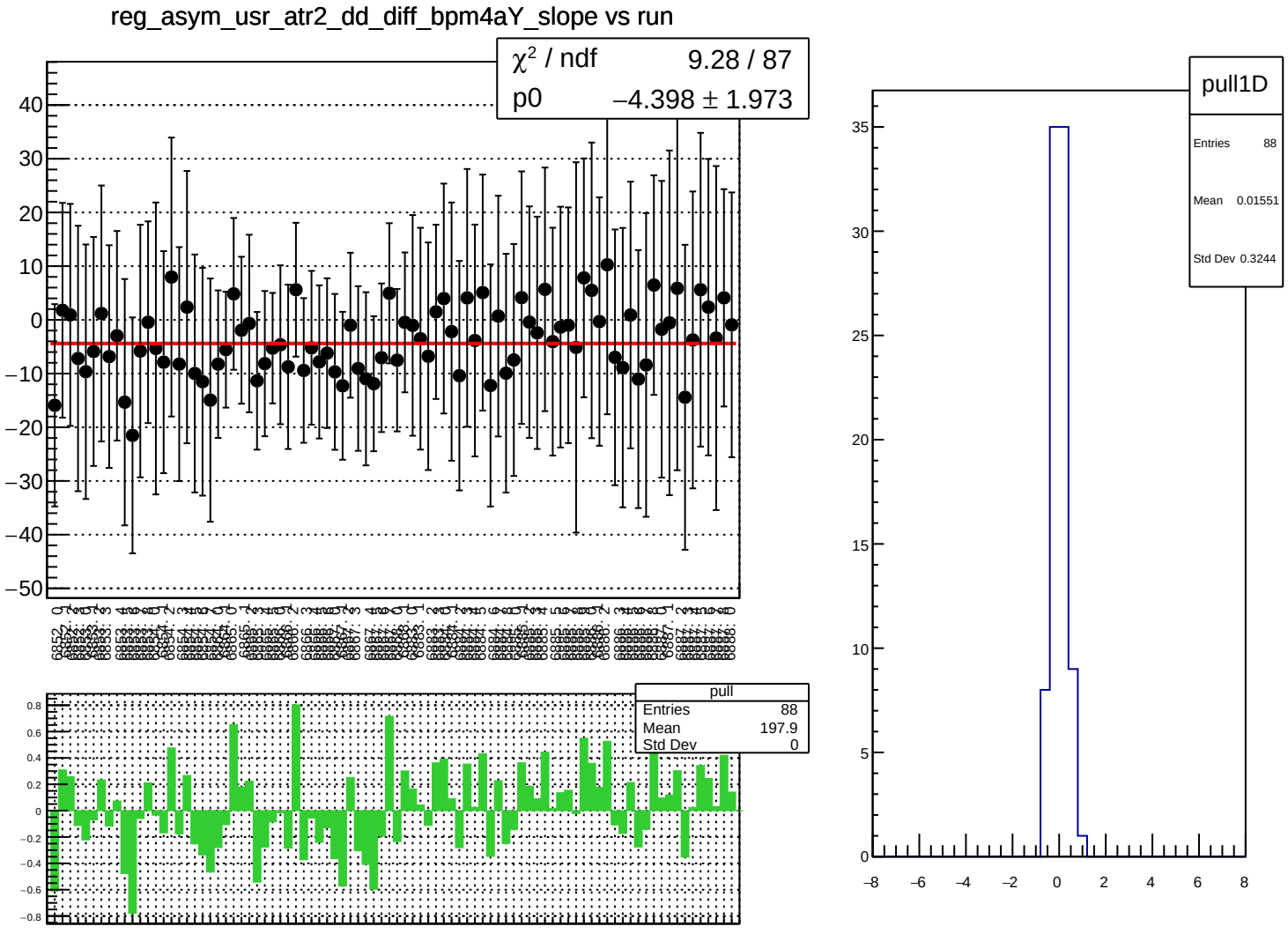

pull1D
Entries 88
Mean 0.01154
Std Dev 0.3687

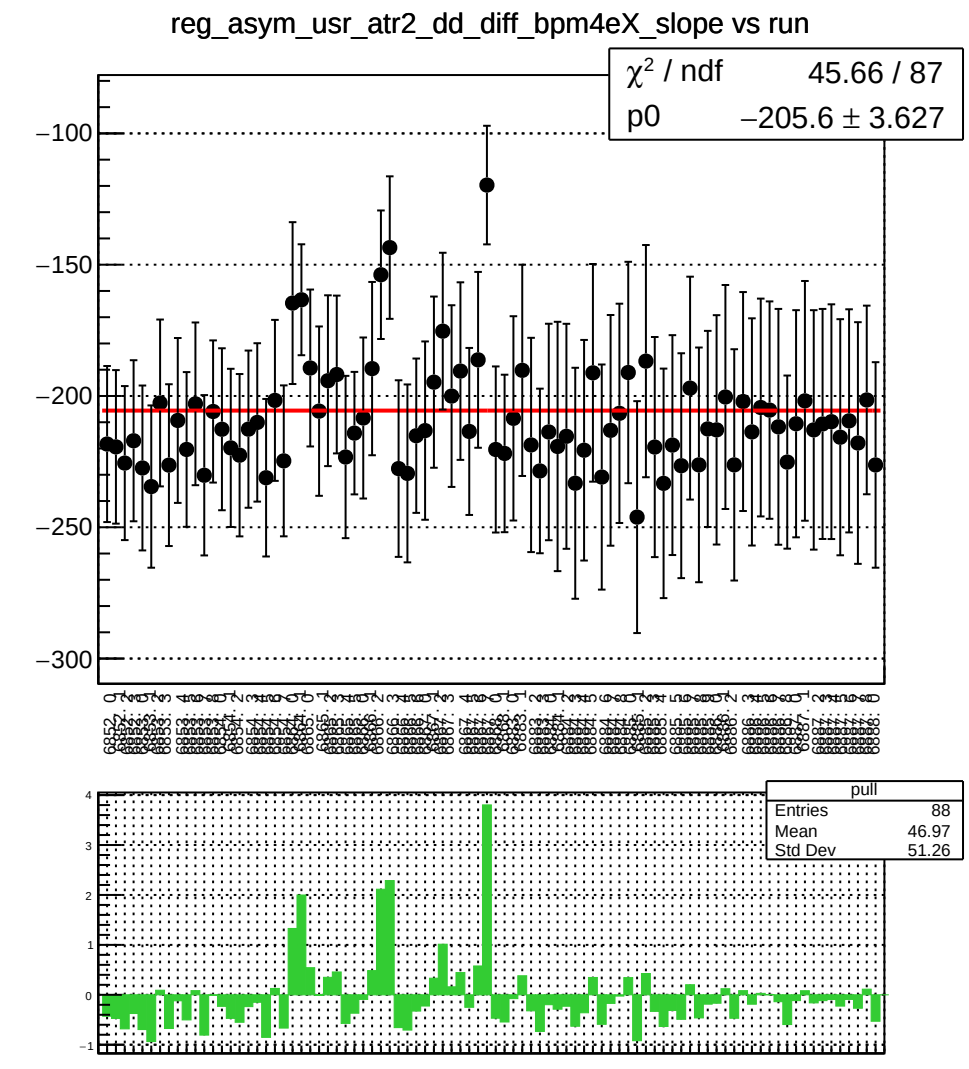

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 12.28 / 87
p0 −142.2 ± 0.2
pull
Entries 88
Mean −92.98
Std Dev 0

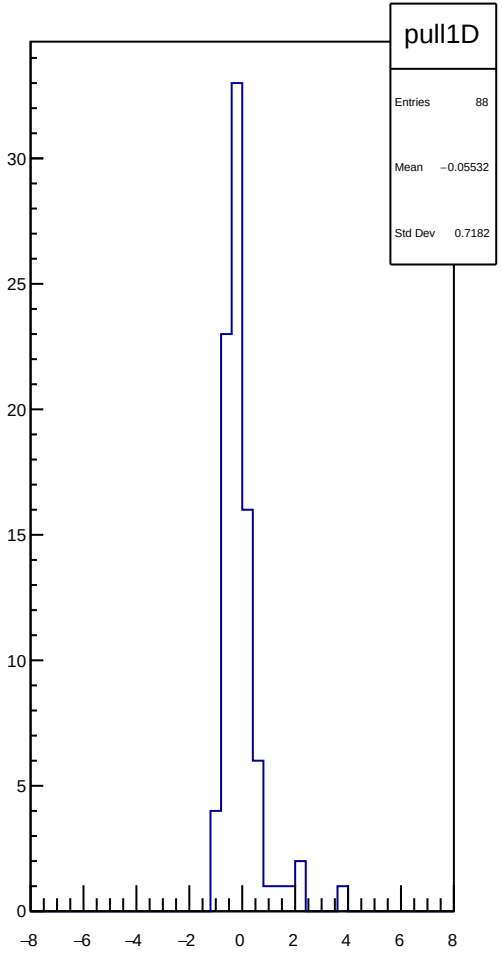

pull1D
Entries 88
Mean −0.01002
Std Dev 0.3734

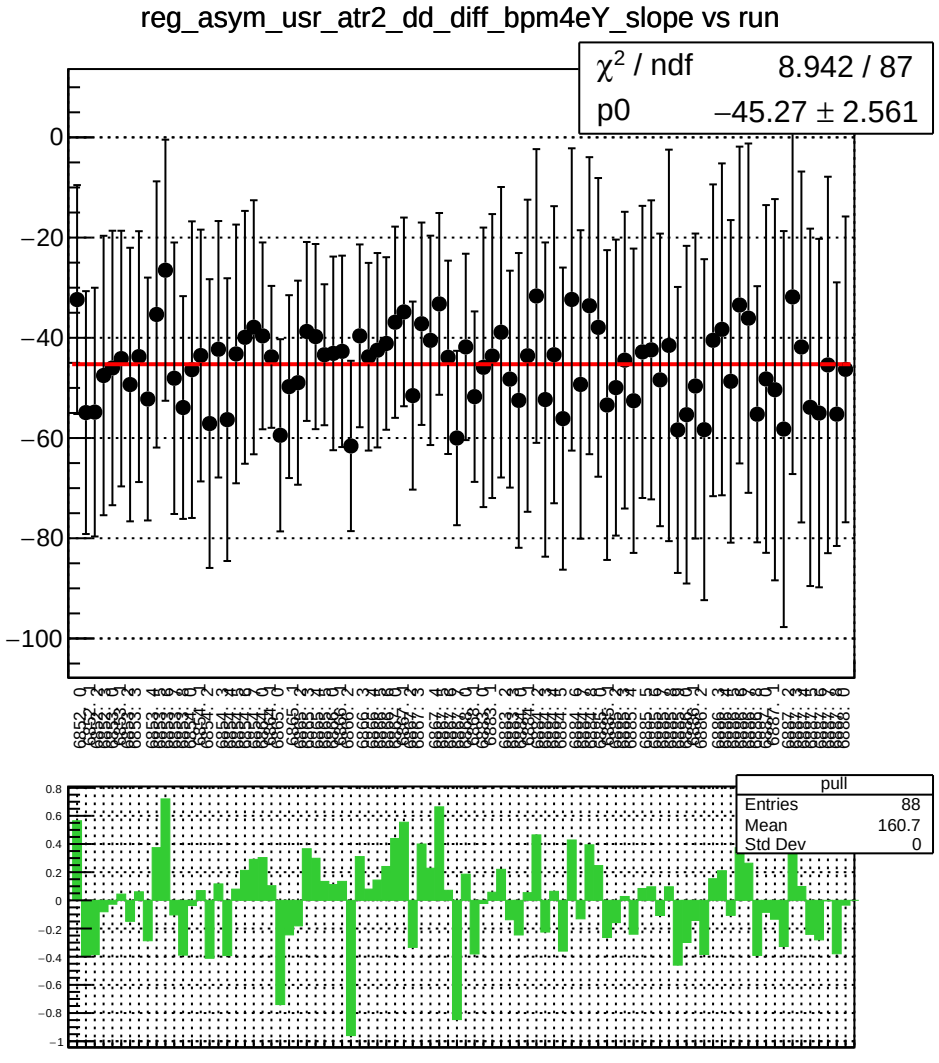

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 41.09 / 87
p0 197.6 ± 3.819
pull
Entries 88
Mean 0.2815
Std Dev 36.92

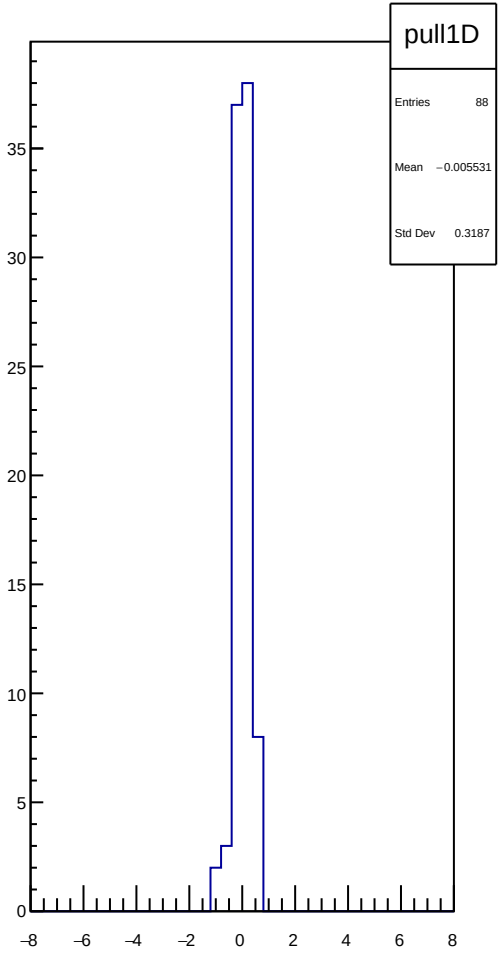

pull1D
Entries 88
Mean 0.03687
Std Dev 0.6823

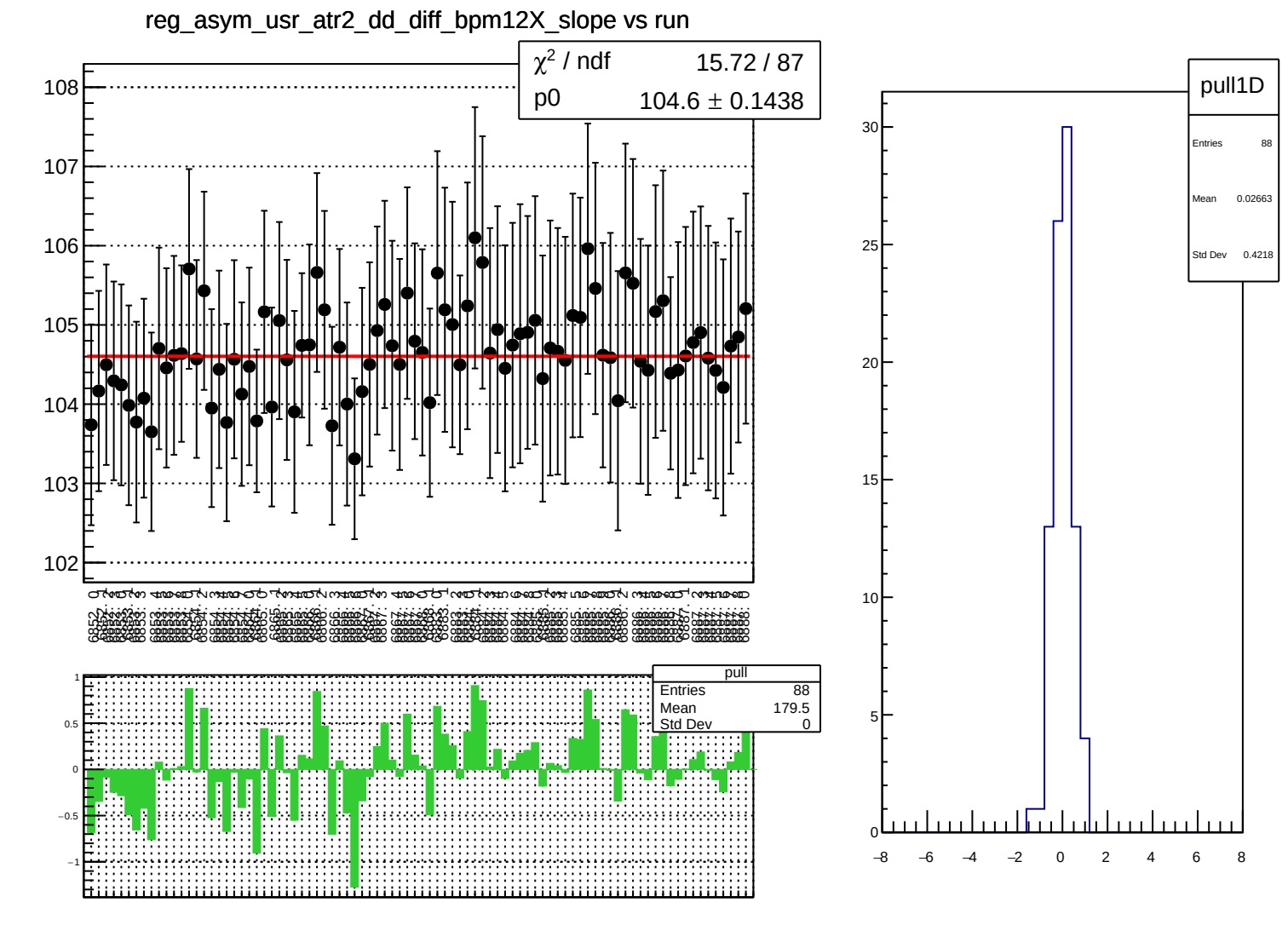

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.28 / 87
p0 −4.398 ± 1.973
pull
Entries 88
Mean 197.9
Std Dev 0
pull1D
Entries 88
Mean 0.01551
Std Dev 0.3244

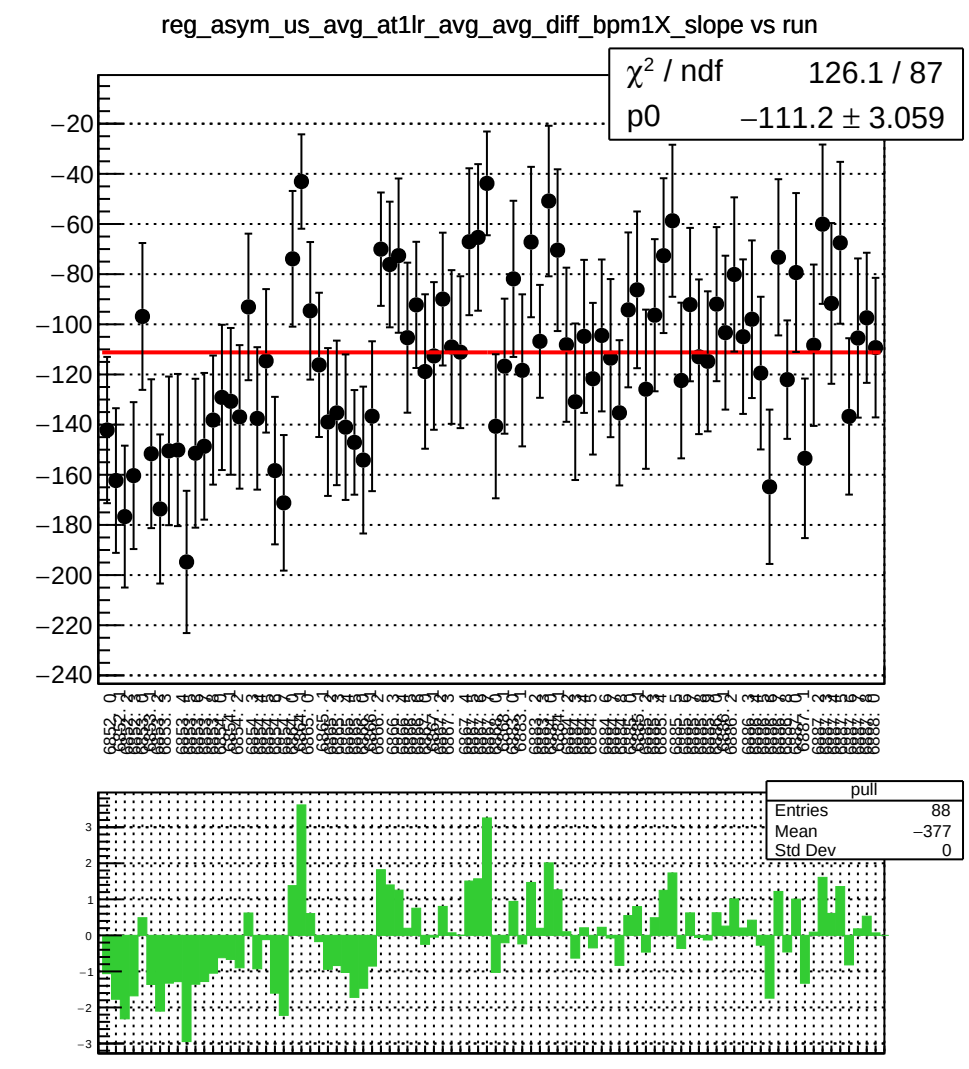

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 45.66 / 87
p0 −205.6 ± 3.627
−100
−150
−200
−250
−300
pull
Entries 88
Mean 46.97
Std Dev 51.26
4
3
2
1
0
−1

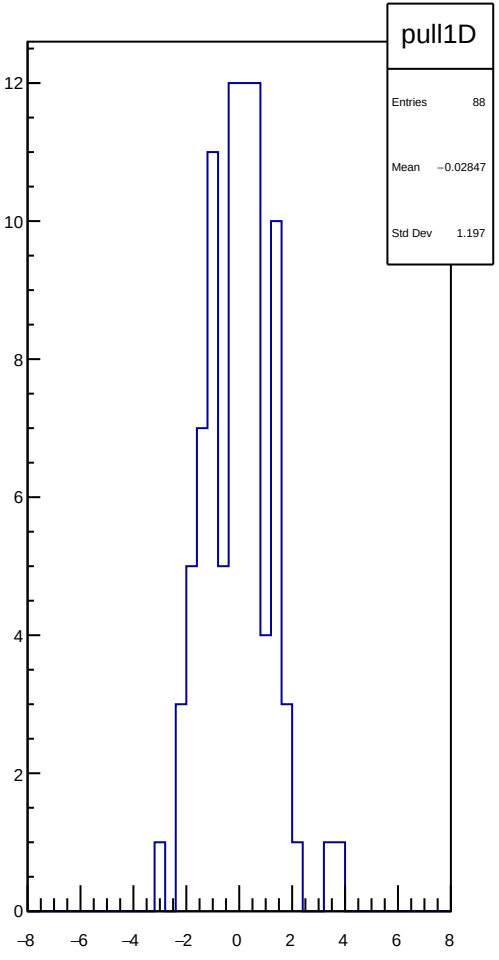

pull1D
Entries 88
Mean −0.05532
Std Dev 0.7182
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

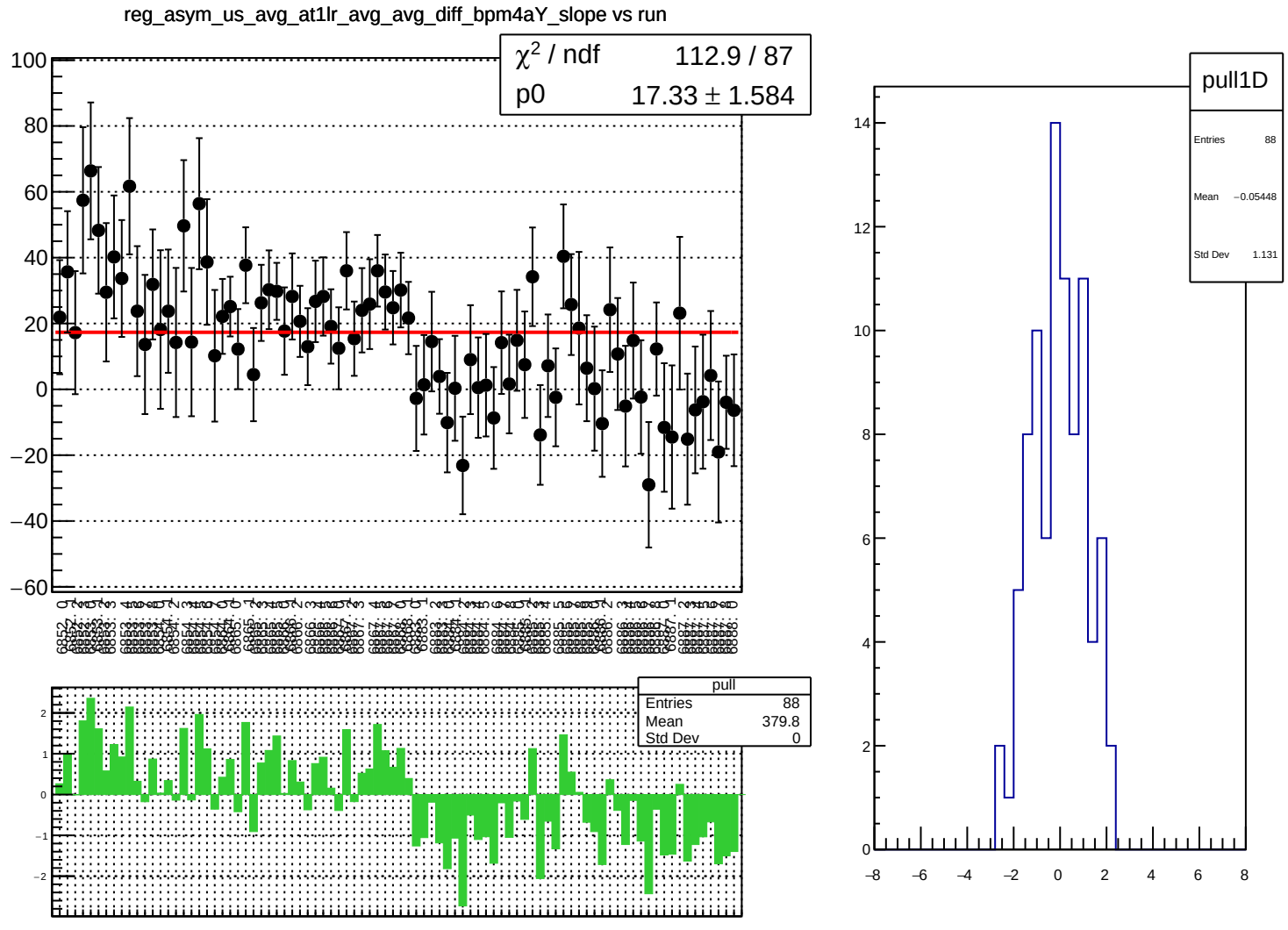

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.942 / 87
p0 −45.27 ± 2.561
0
−20
−40
−60
−80
−100
pull
Entries 88
Mean 160.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

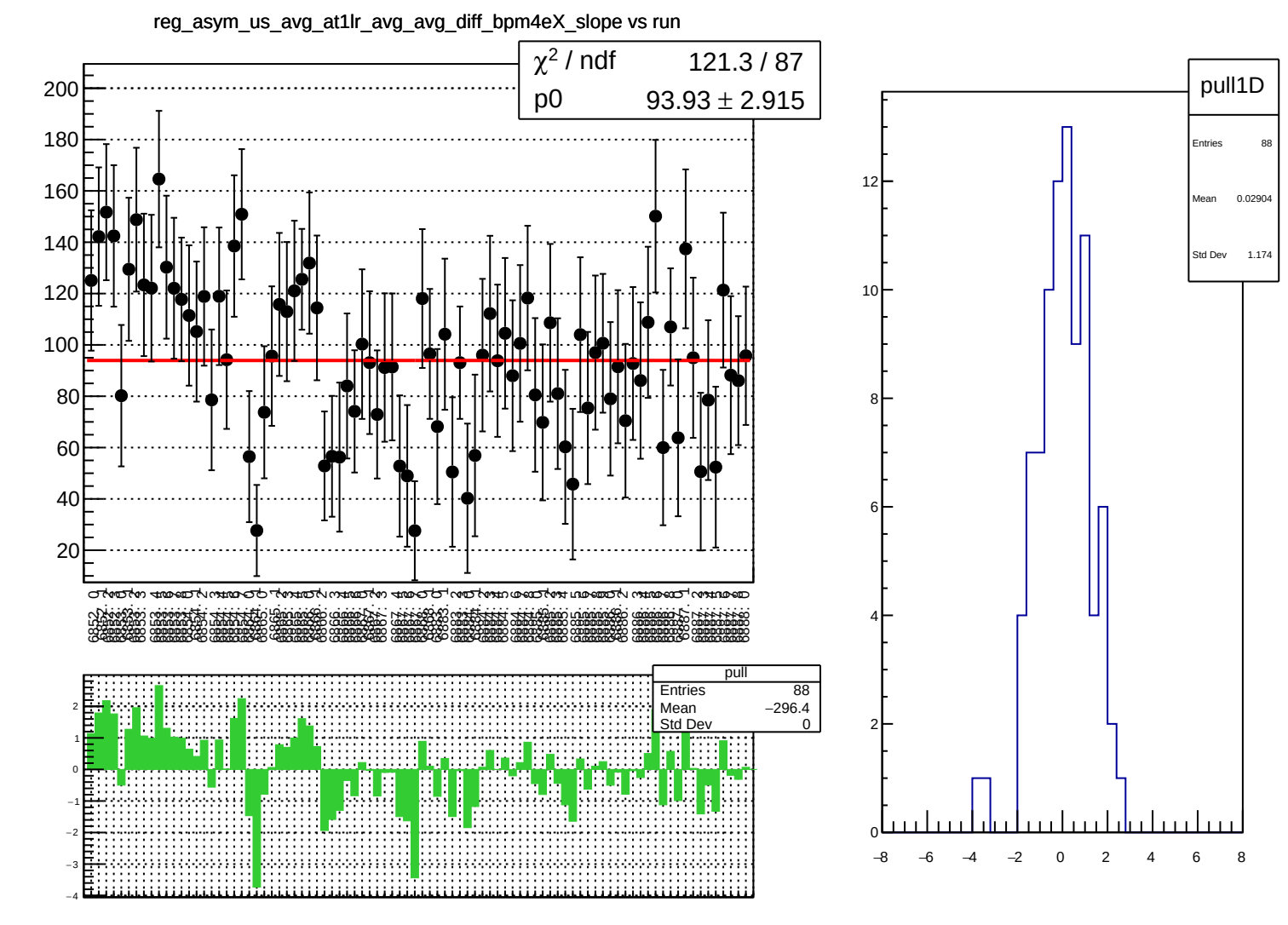

pull1D
Entries 88
Mean −0.005531
Std Dev 0.3187
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

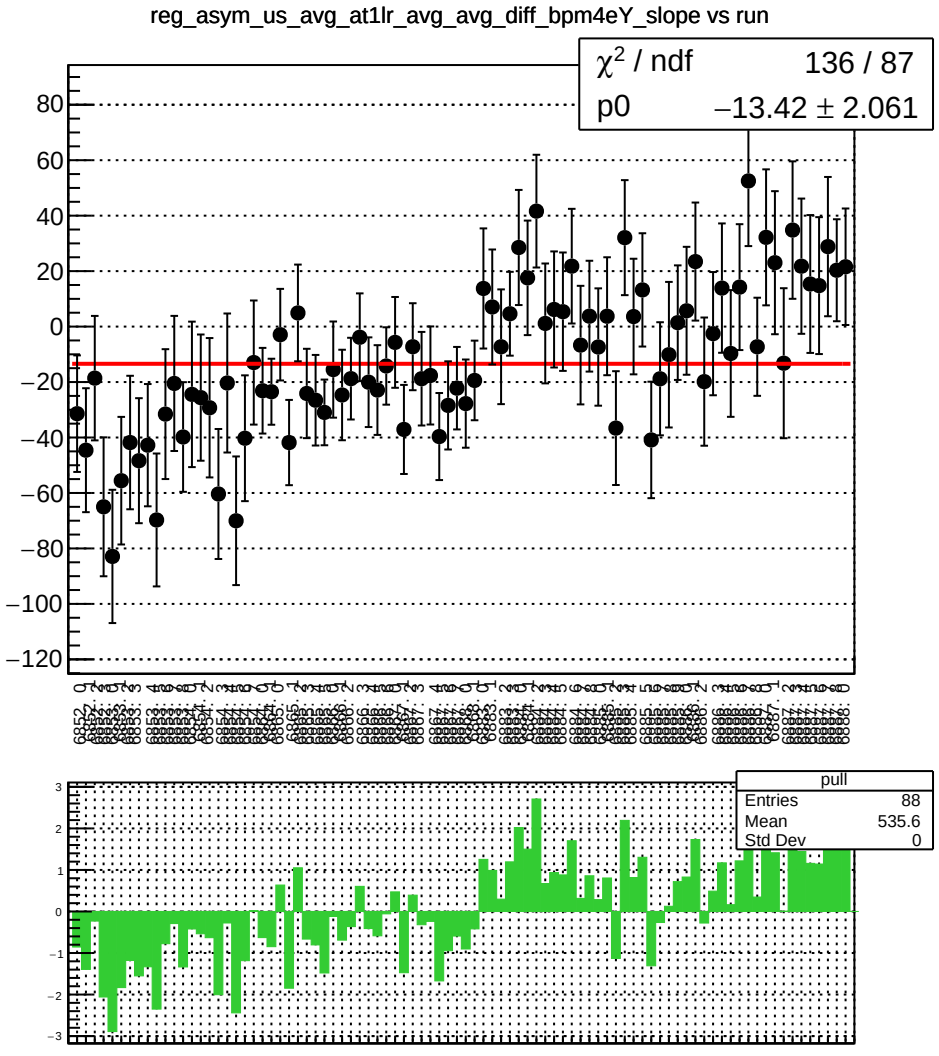

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 15.72 / 87
p0 104.6 ± 0.1438
pull
Entries 88
Mean 179.5
Std Dev 0
pull1D
Entries 88
Mean 0.02663
Std Dev 0.4218

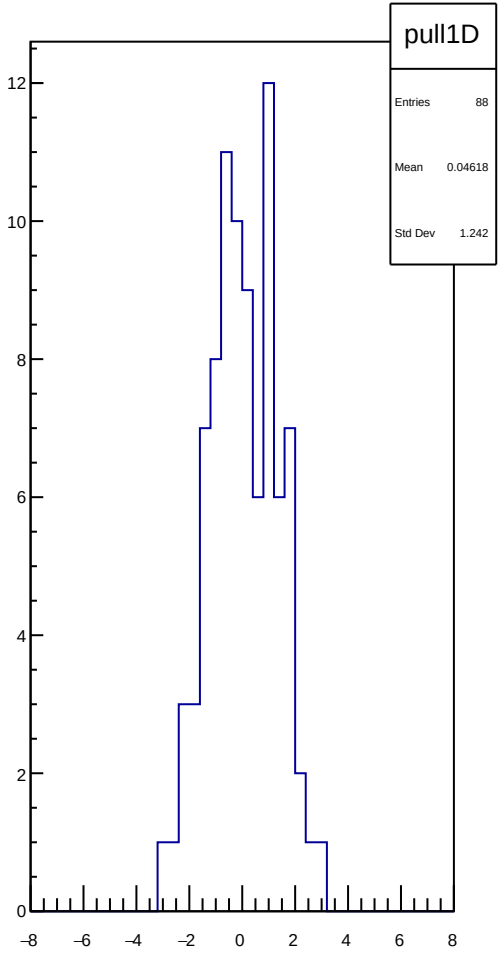

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 126.1 / 87
p0 −111.2 ± 3.059
pull
Entries 88
Mean −377
Std Dev 0

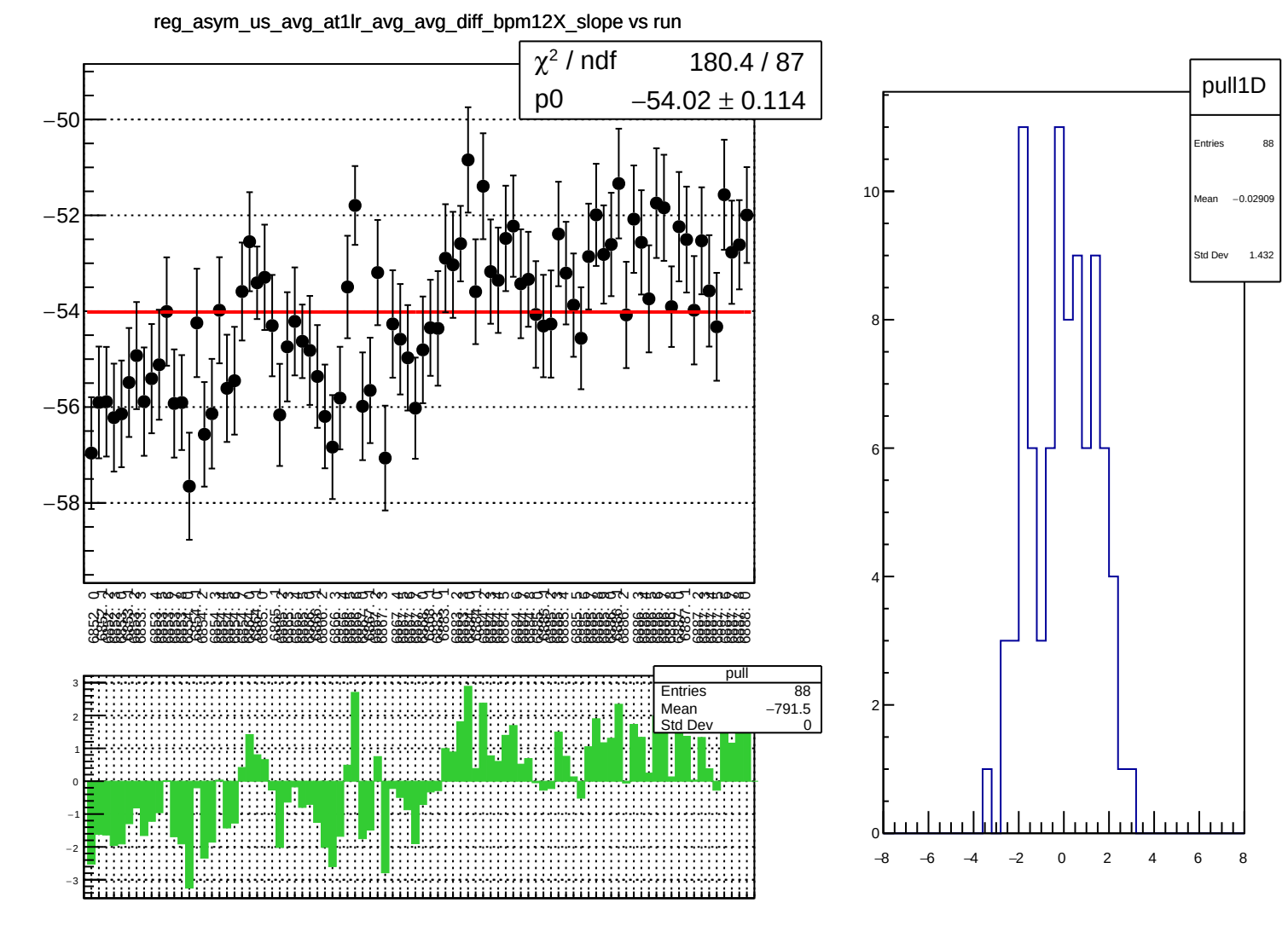

pull1D
Entries 88
Mean −0.02847
Std Dev 1.197

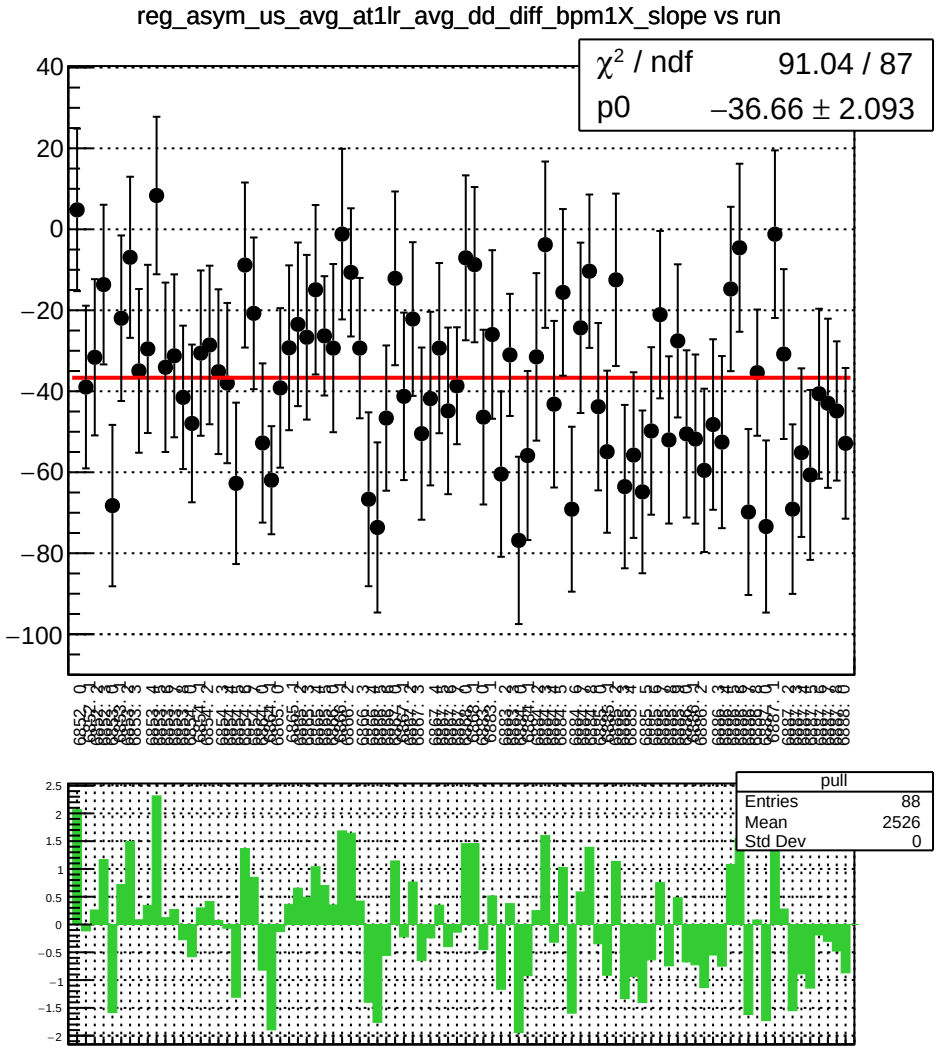

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 112.9 / 87
p0 17.33 ± 1.584
pull
Entries 88
Mean 379.8
Std Dev 0
pull1D
Entries 88
Mean −0.05448
Std Dev 1.131

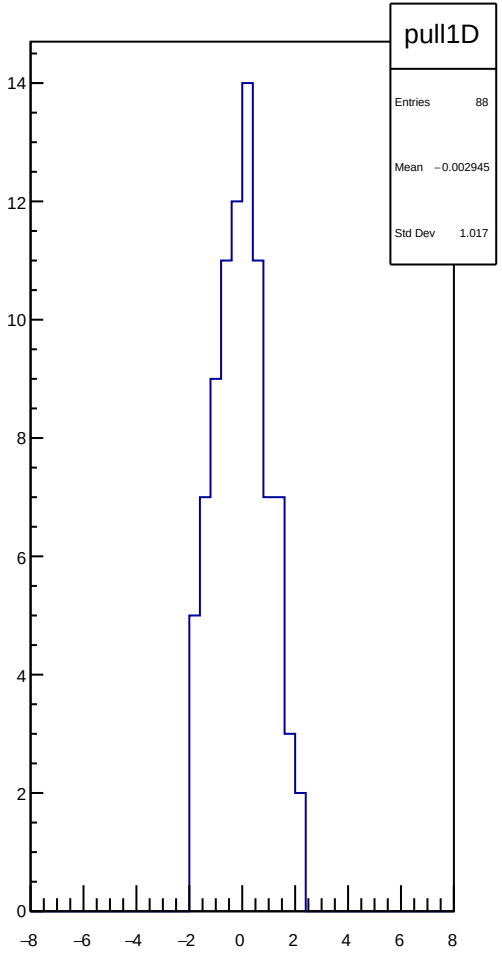

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 121.3 / 87
p0 93.93 ± 2.915
pull
Entries 88
Mean −296.4
Std Dev 0
pull1D
Entries 88
Mean 0.02904
Std Dev 1.174

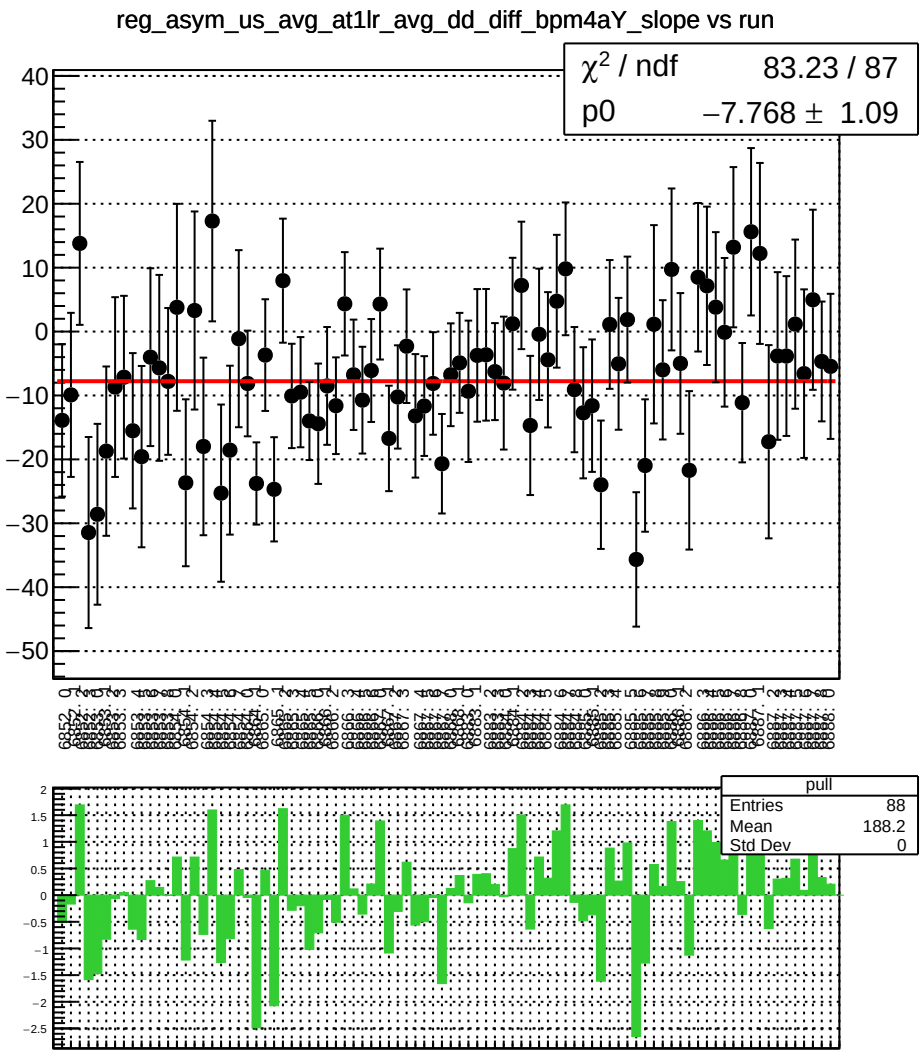

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 136 / 87
p0 −13.42 ± 2.061
pull
Entries 88
Mean 535.6
Std Dev 0

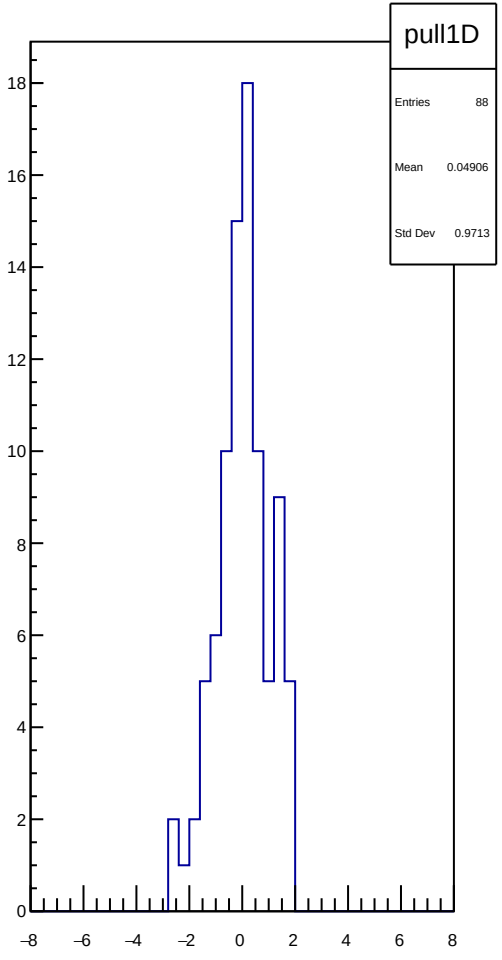

pull1D
Entries 88
Mean 0.04618
Std Dev 1.242

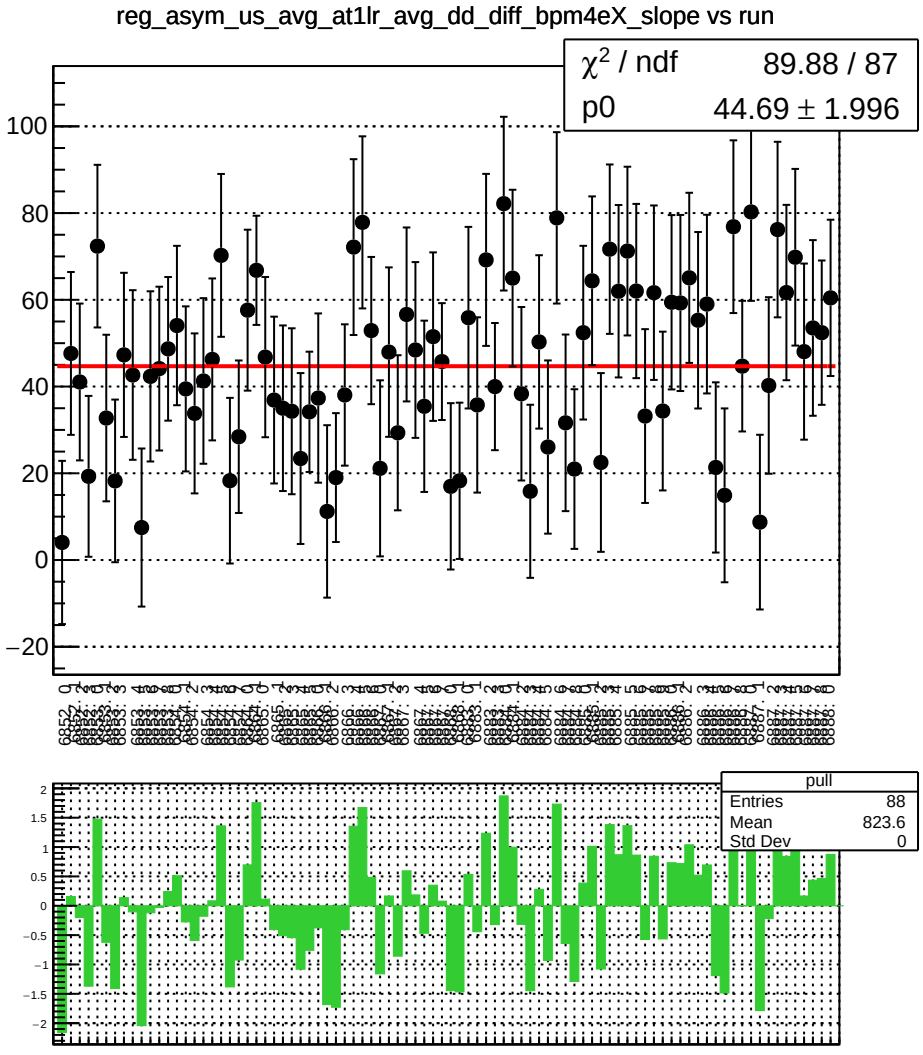

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 180.4 / 87
p0 −54.02 ± 0.114
−50
−52
−54
−56
−58
pull
Entries 88
Mean −791.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean −0.02909
Std Dev 1.432
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

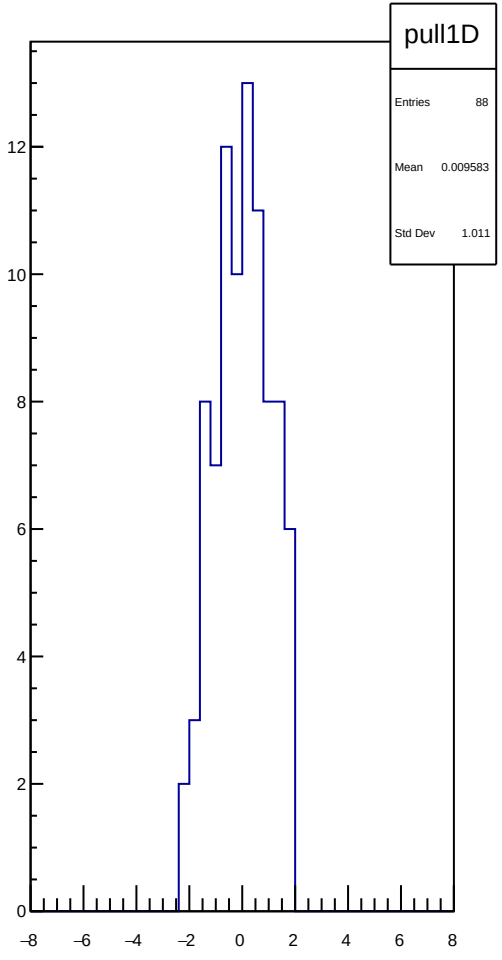

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 91.04 / 87
p0 −36.66 ± 2.093
pull
Entries 88
Mean 2526
Std Dev 0

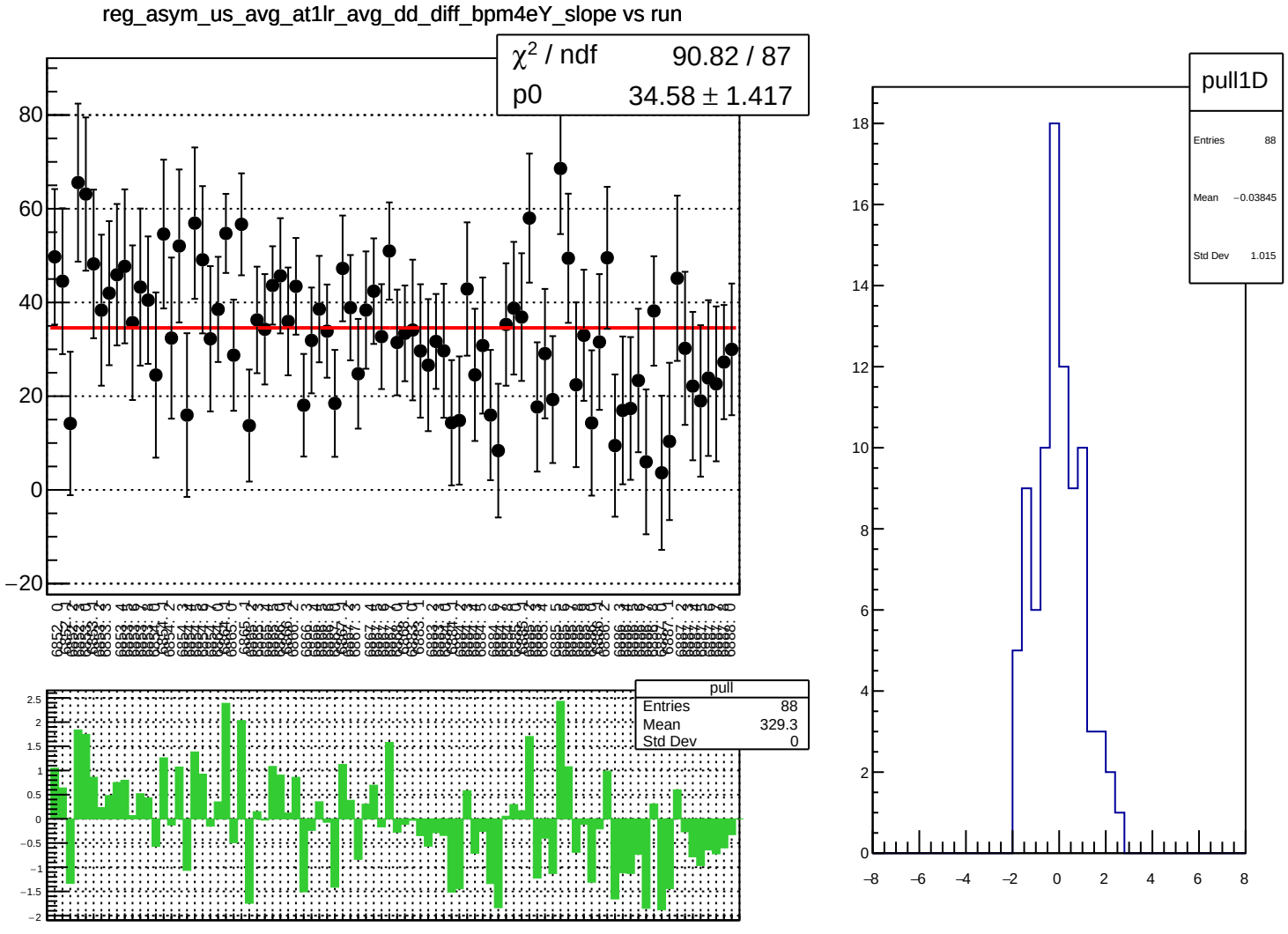

pull1D
Entries 88
Mean −0.002945
Std Dev 1.017

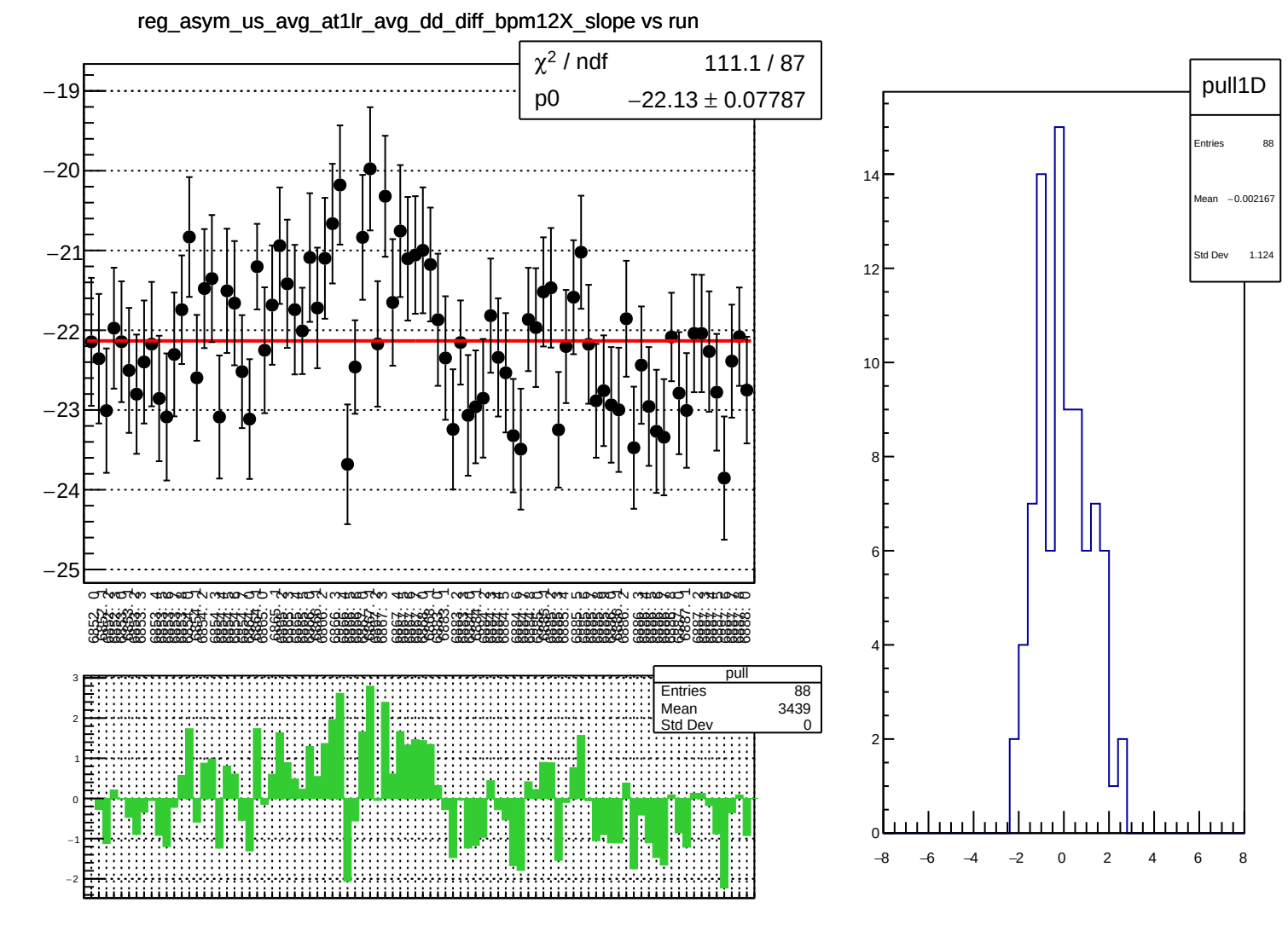

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.23 / 87
p0 −7.768 ± 1.09
pull
Entries 88
Mean 188.2
Std Dev 0

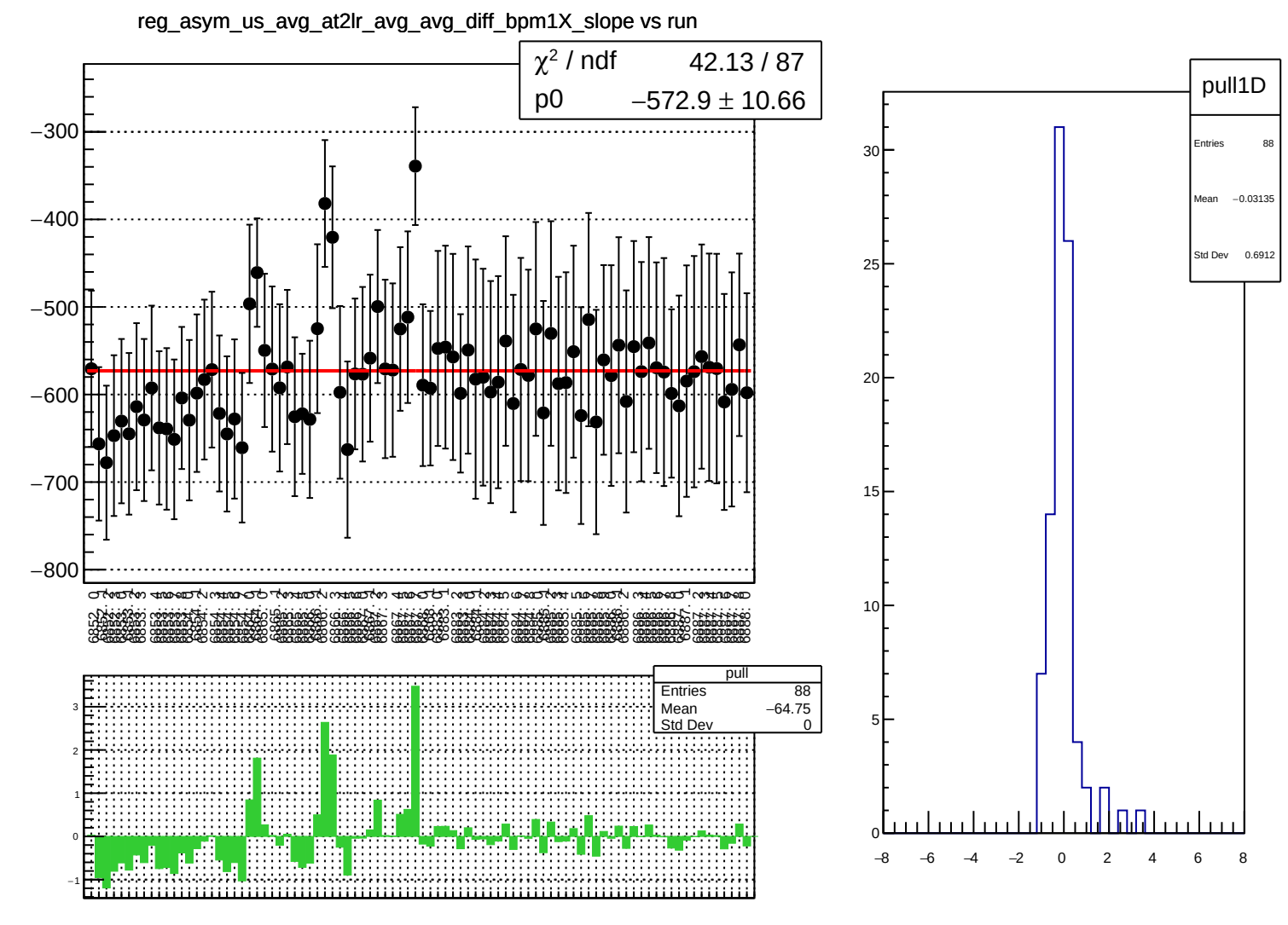

pull1D
Entries 88
Mean 0.04906
Std Dev 0.9713

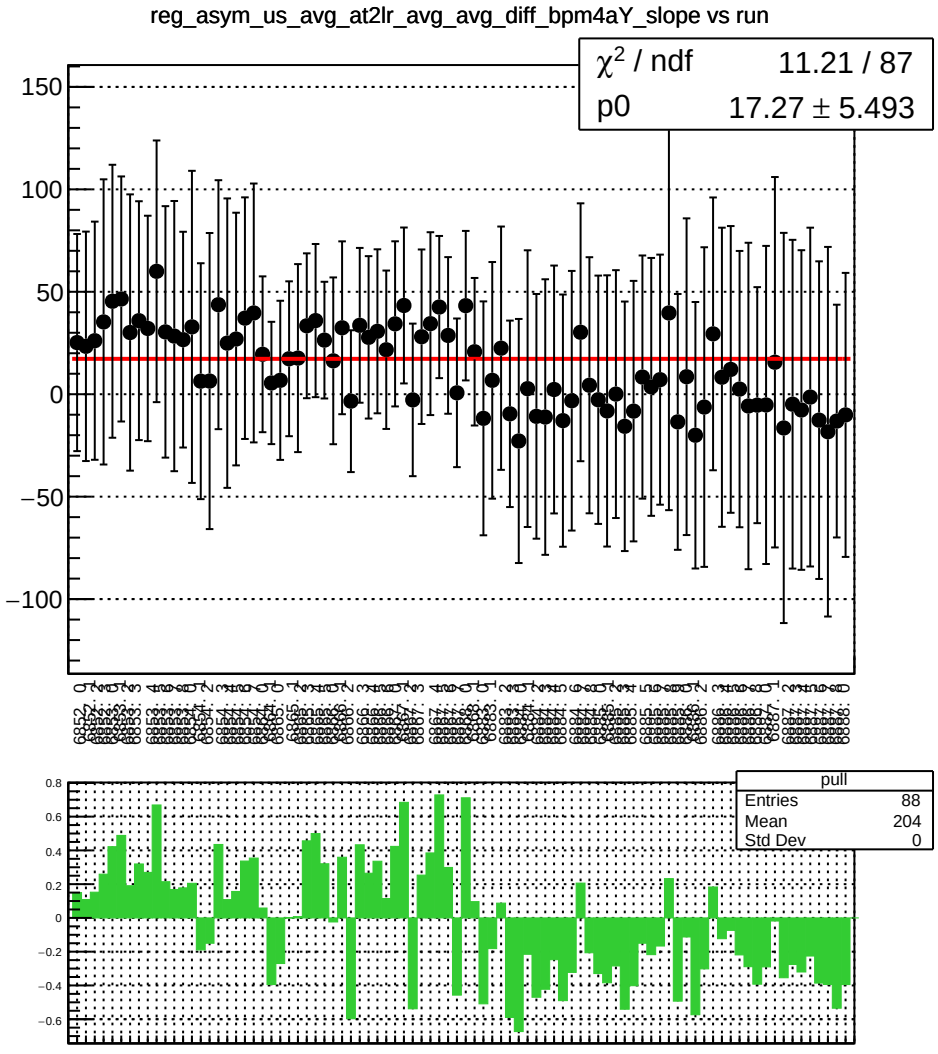

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.88 / 87
p0 44.69 ± 1.996
pull
Entries 88
Mean 823.6
Std Dev 0

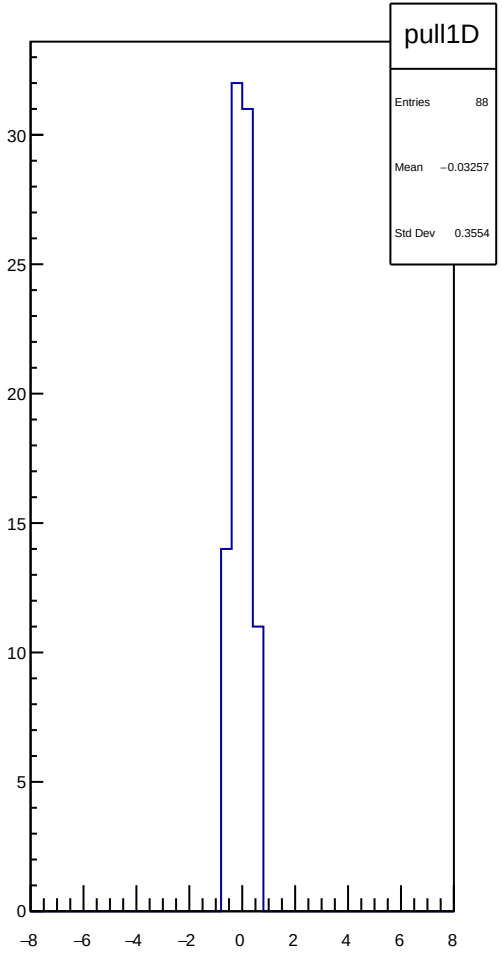

pull1D
Entries 88
Mean 0.009583
Std Dev 1.011

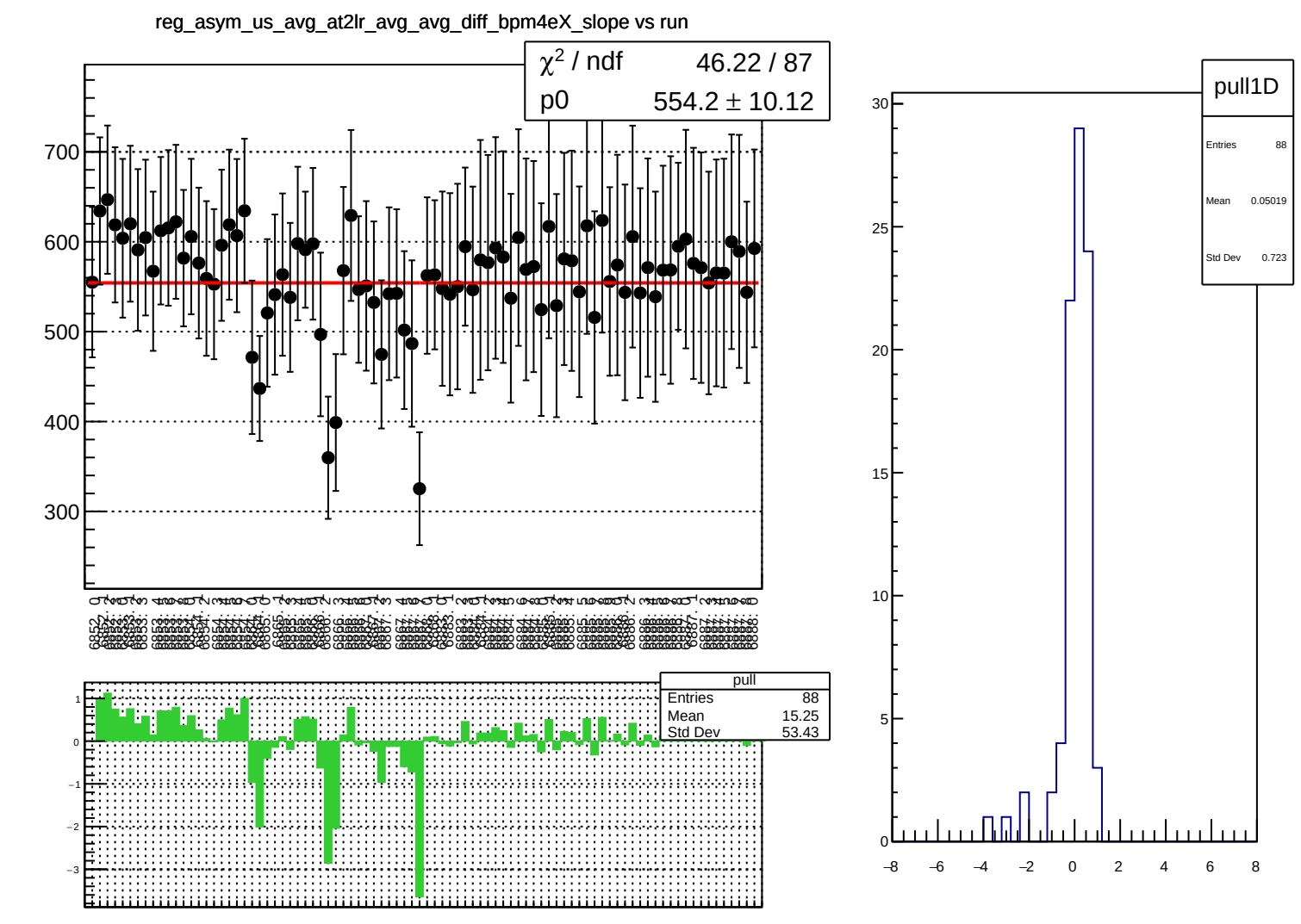

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 90.82 / 87
p0 34.58 ± 1.417
pull
Entries 88
Mean 329.3
Std Dev 0
pull1D
Entries 88
Mean −0.03845
Std Dev 1.015

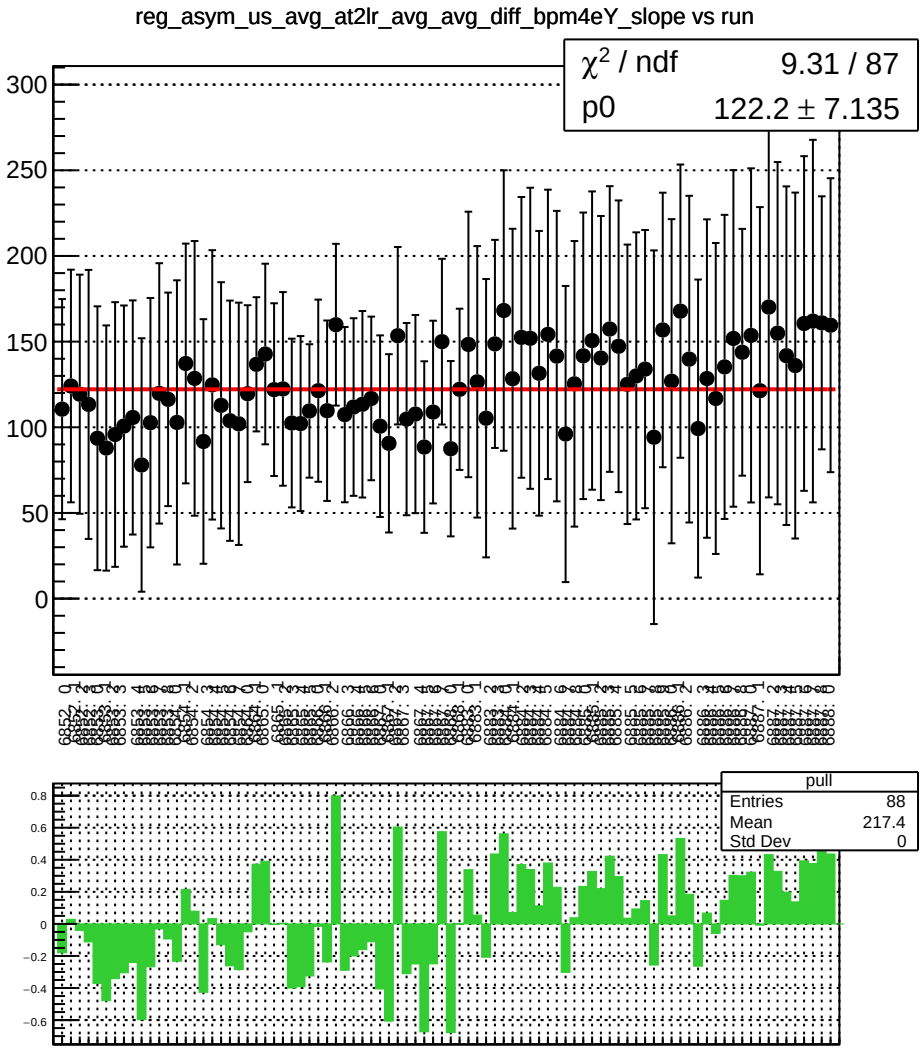

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 111.1 / 87
p0 −22.13 ± 0.07787
pull
Entries 88
Mean 3439
Std Dev 0
pull1D
Entries 88
Mean −0.002167
Std Dev 1.124

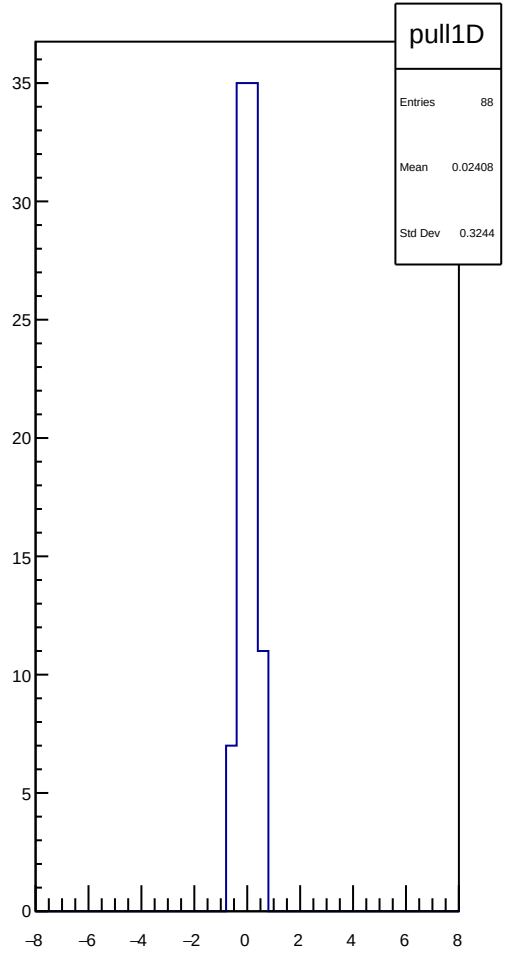

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 42.13 / 87
p0 −572.9 ± 10.66
−300
−400
−500
−600
−700
−800
pull
Entries 88
Mean −64.75
Std Dev 0
3
2
1
0
−1
pull1D
Entries 88
Mean −0.03135
Std Dev 0.6912
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

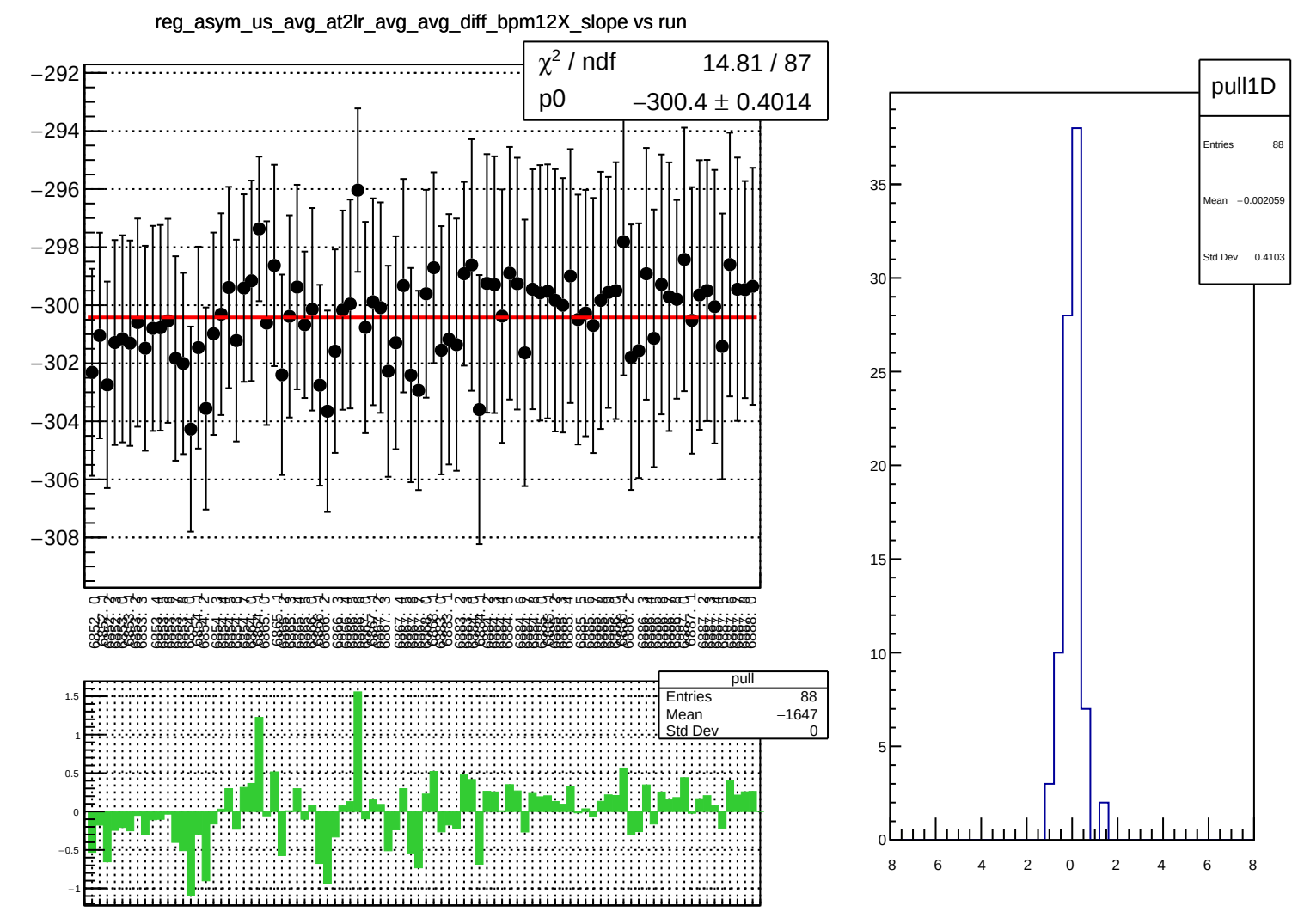

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.21 / 87
p0 17.27 ± 5.493
150
100
50
0
−50
−100
pull
Entries 88
Mean 204
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

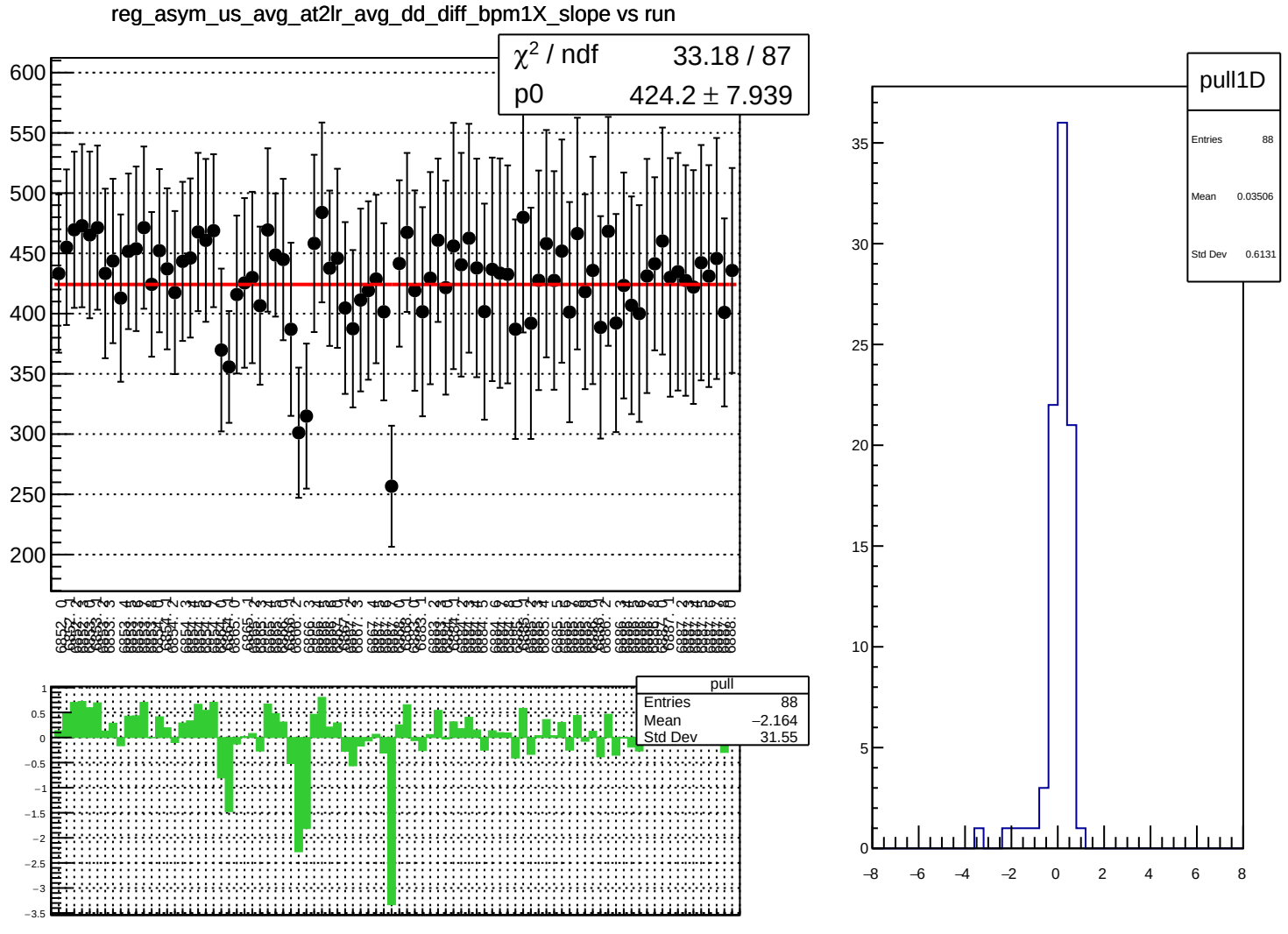

pull1D
Entries 88
Mean −0.03257
Std Dev 0.3554
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

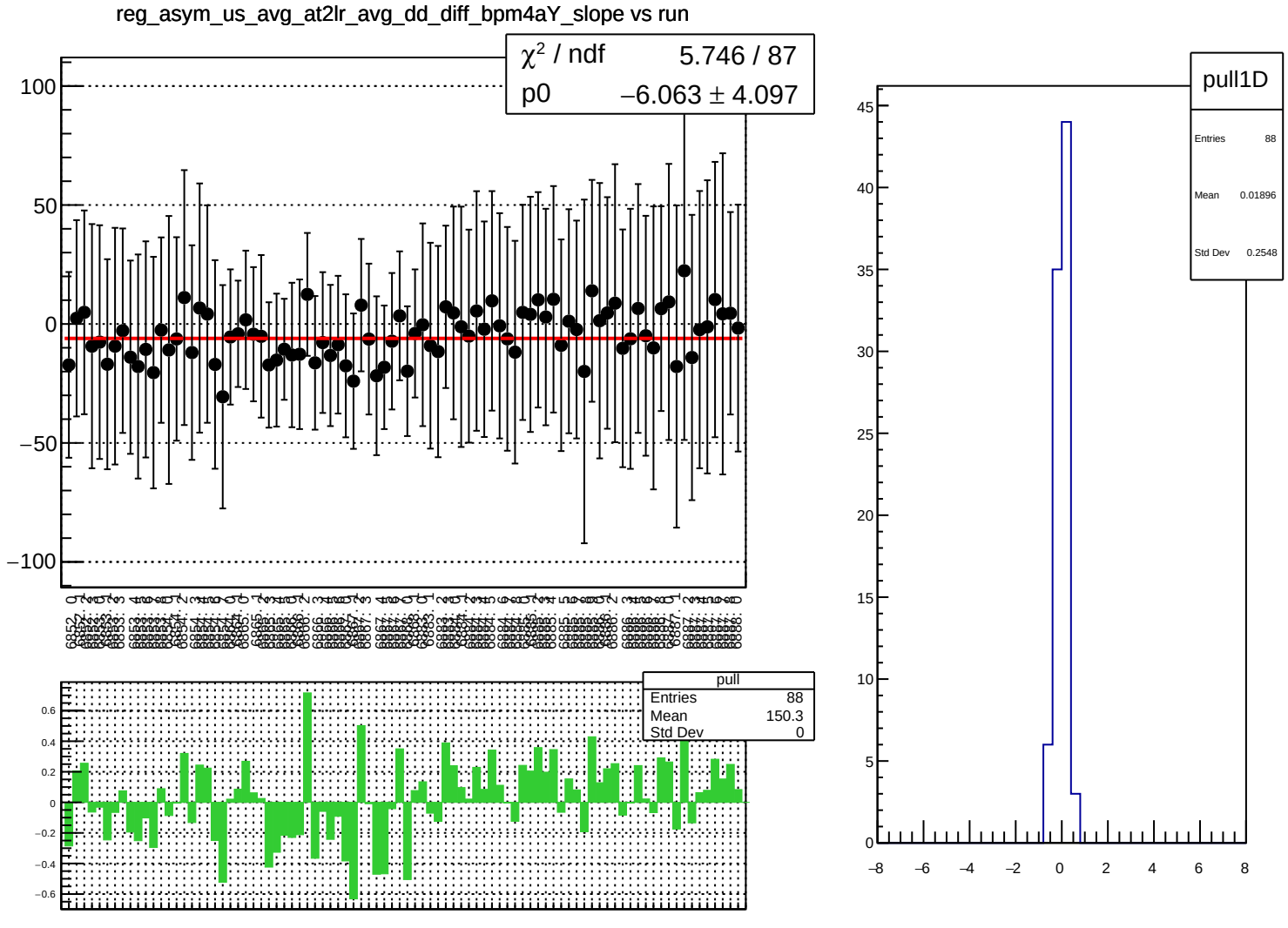

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.22 / 87
p0 554.2 ± 10.12
700
600
500
400
300
pull
Entries 88
Mean 15.25
Std Dev 53.43
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.05019
Std Dev 0.723
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

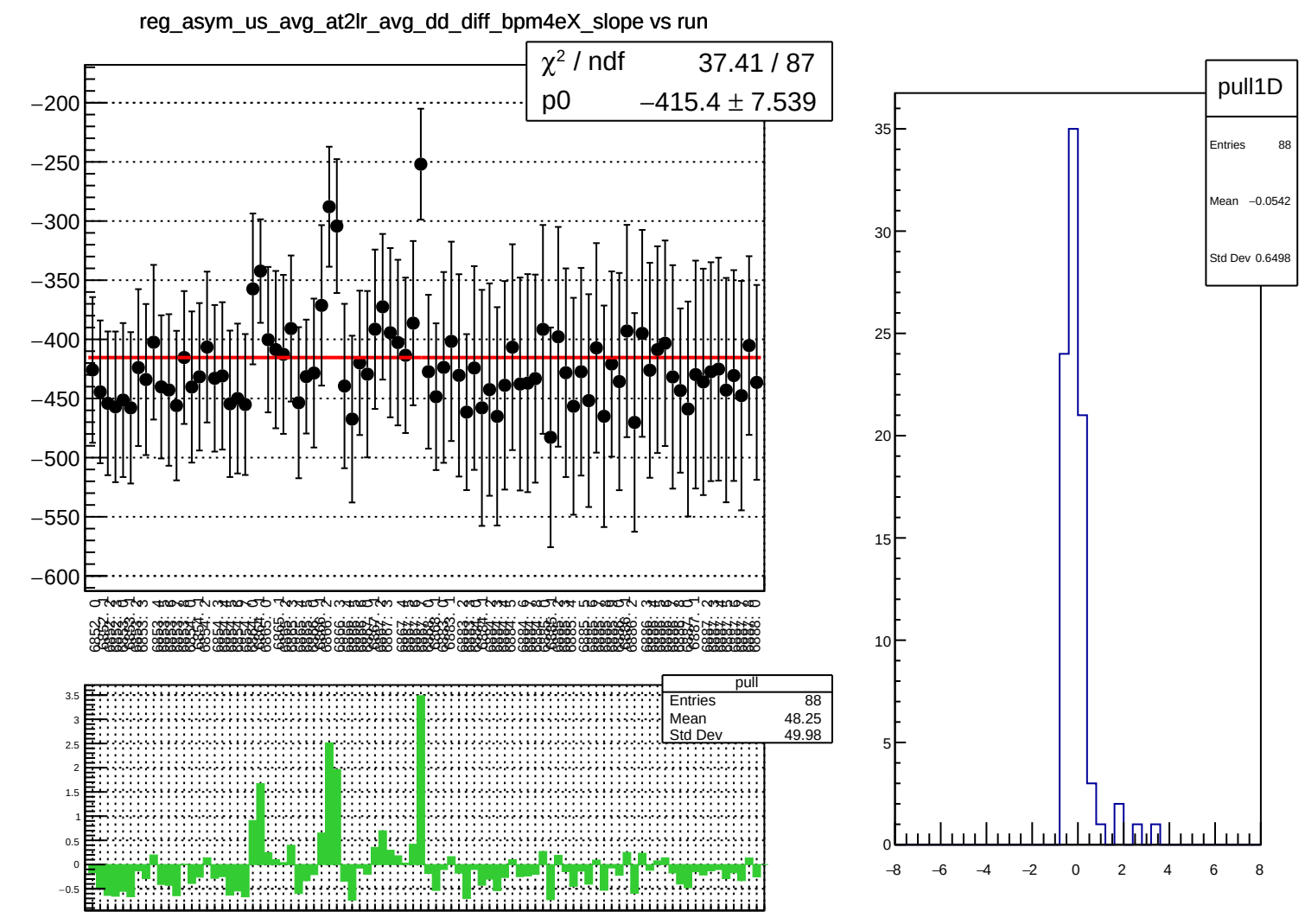

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.31 / 87
p0 122.2 ± 7.135
pull
Entries 88
Mean 217.4
Std Dev 0

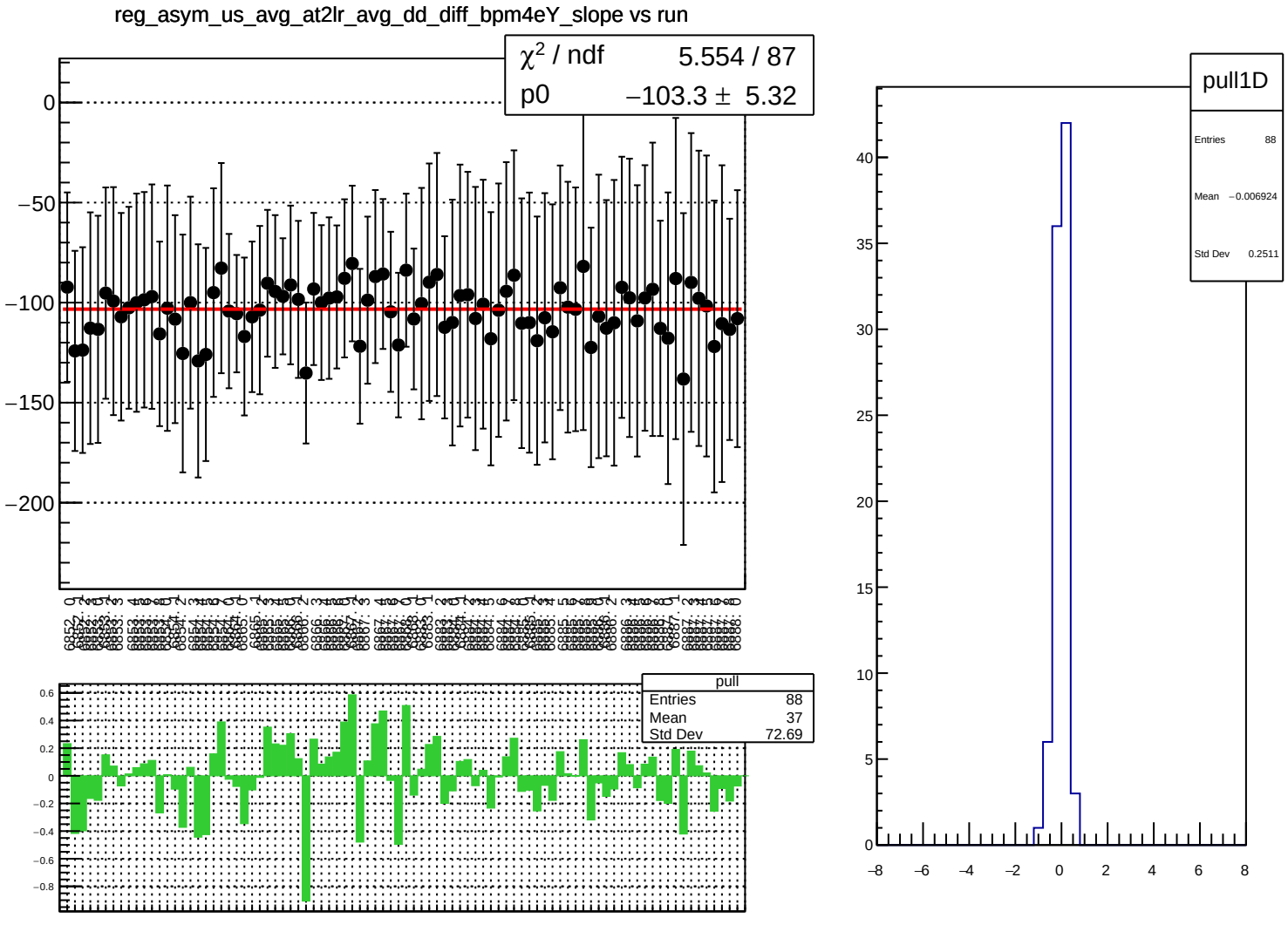

pull1D
Entries 88
Mean 0.02408
Std Dev 0.3244

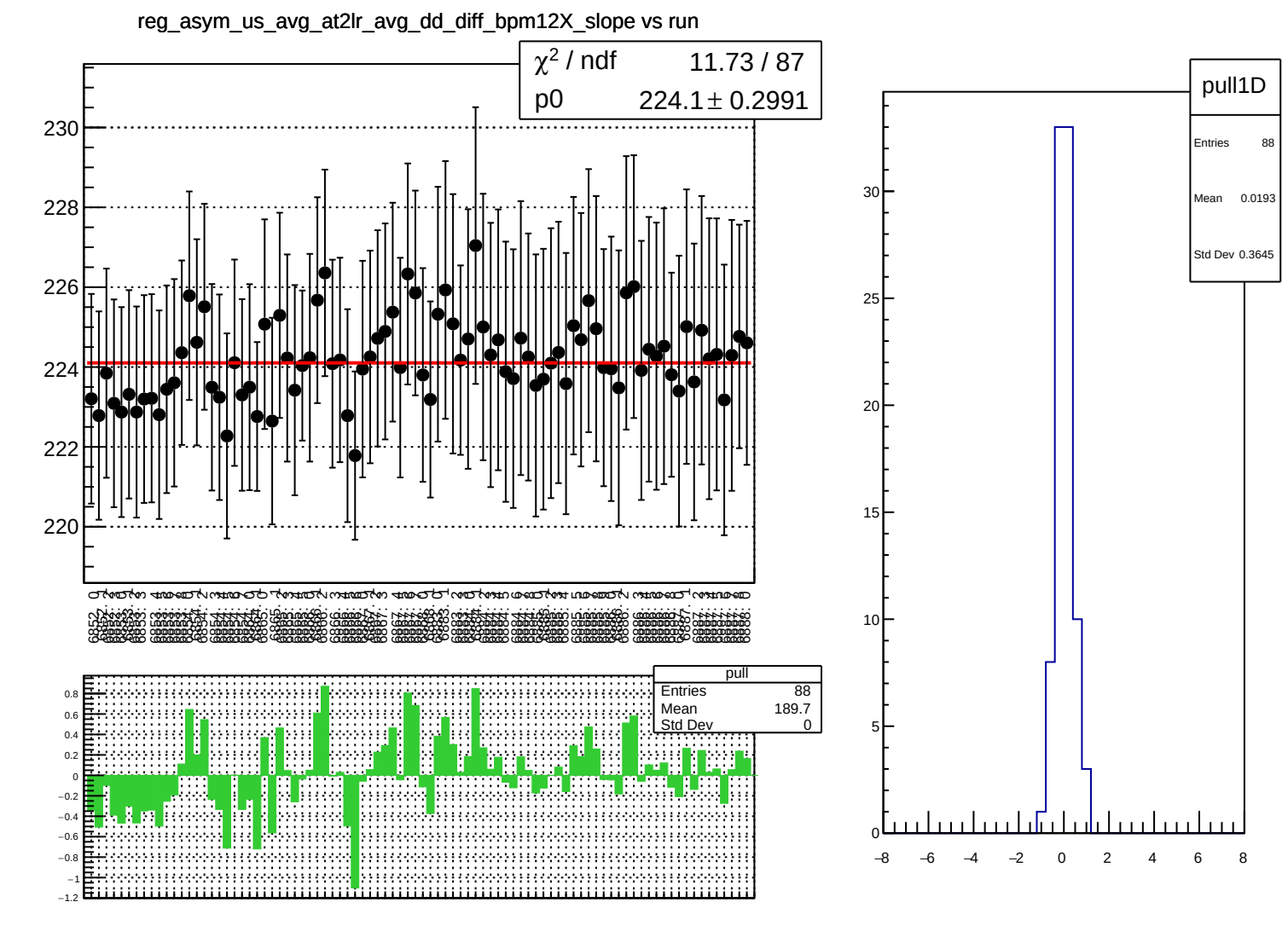

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 14.81 / 87
p0 −300.4 ± 0.4014
−292
−294
−296
−298
−300
−302
−304
−306
−308
pull
Entries 88
Mean −1647
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean −0.002059
Std Dev 0.4103
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

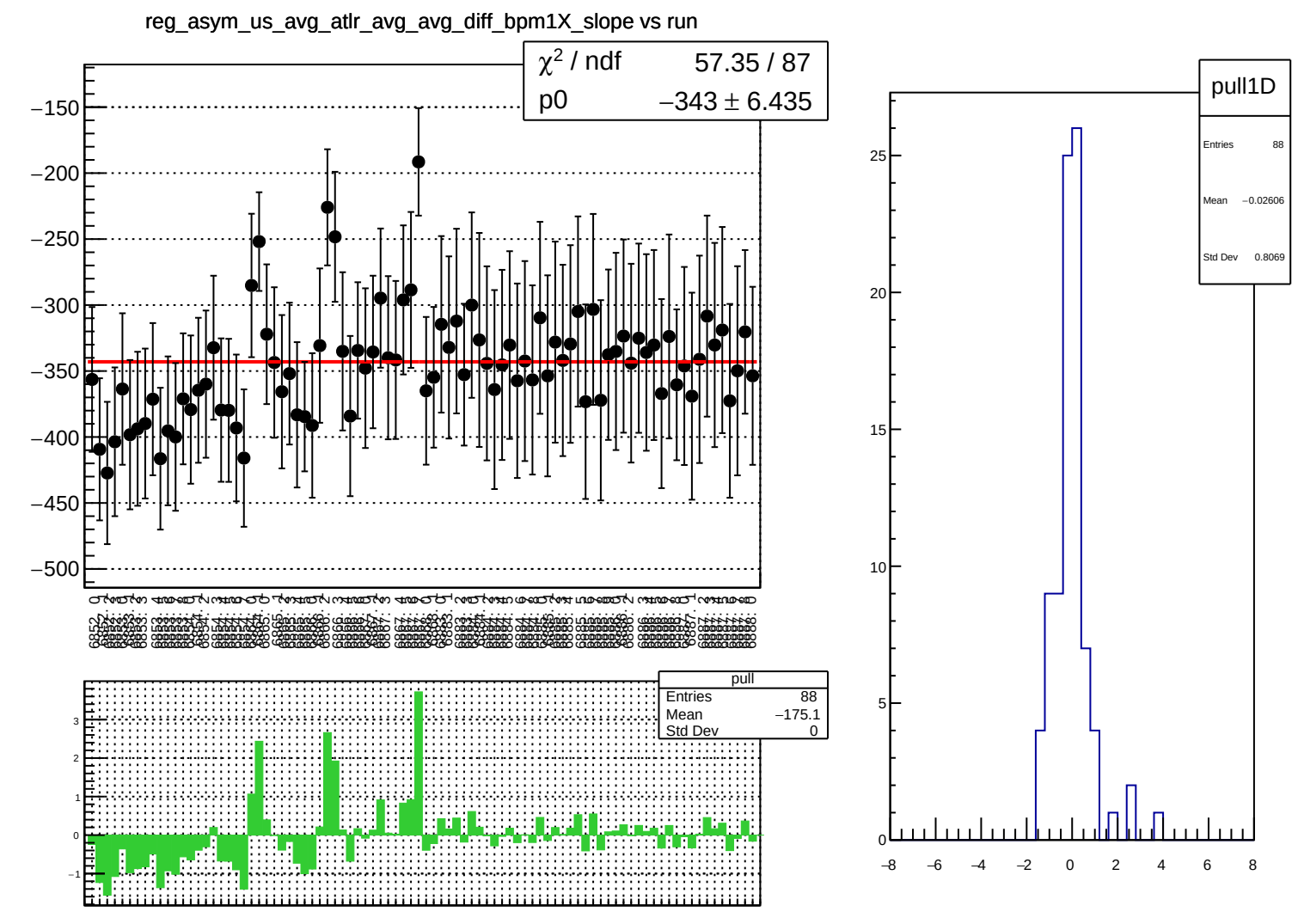

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 33.18 / 87
p0 424.2 ± 7.939
600
550
500
450
400
350
300
250
200
pull
Entries 88
Mean −2.164
Std Dev 31.55
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 88
Mean 0.03506
Std Dev 0.6131
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

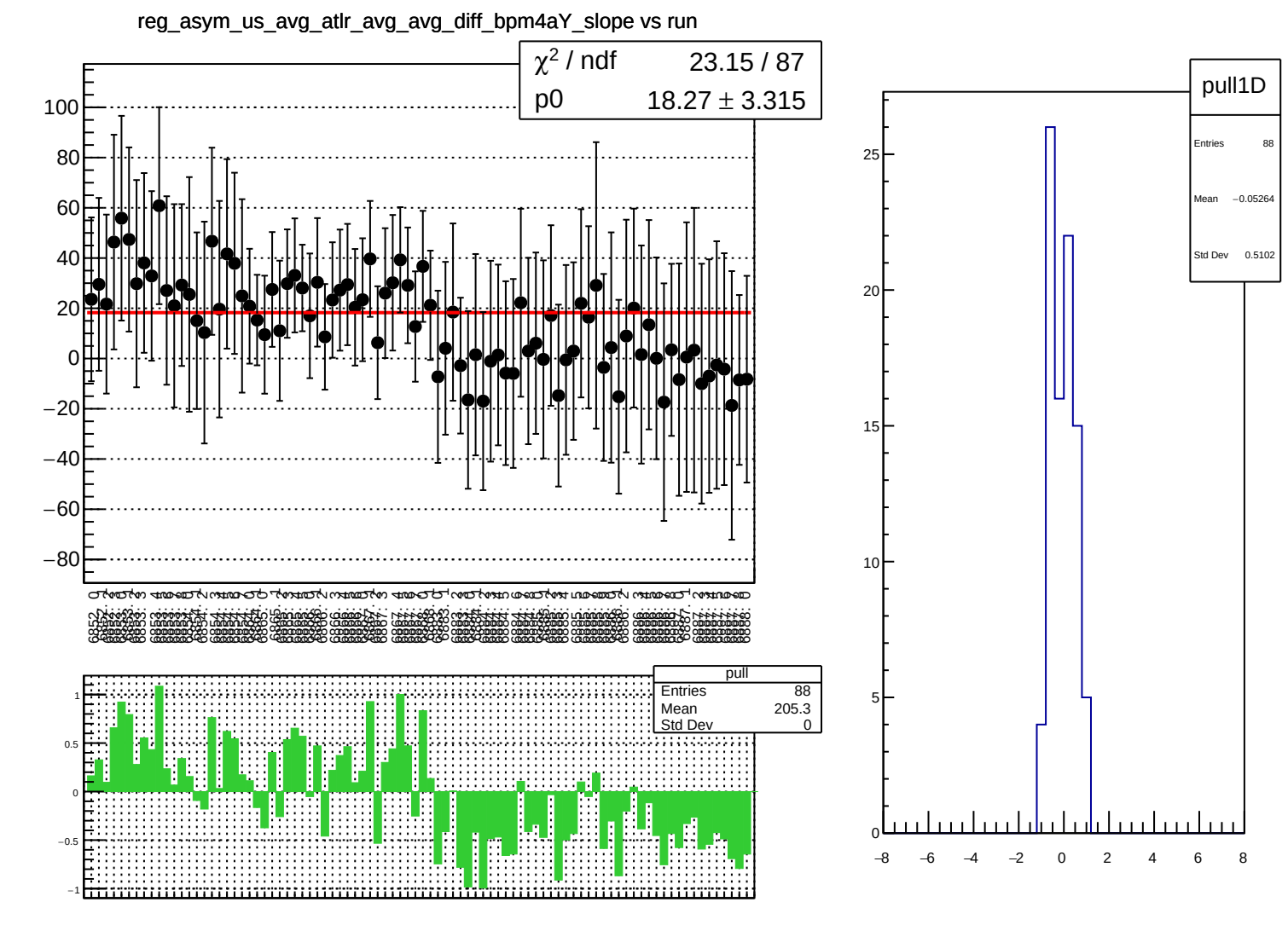

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.746 / 87
p0 −6.063 ± 4.097
100
50
0
−50
−100
pull
Entries 88
Mean 150.3
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 88
Mean 0.01896
Std Dev 0.2548
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

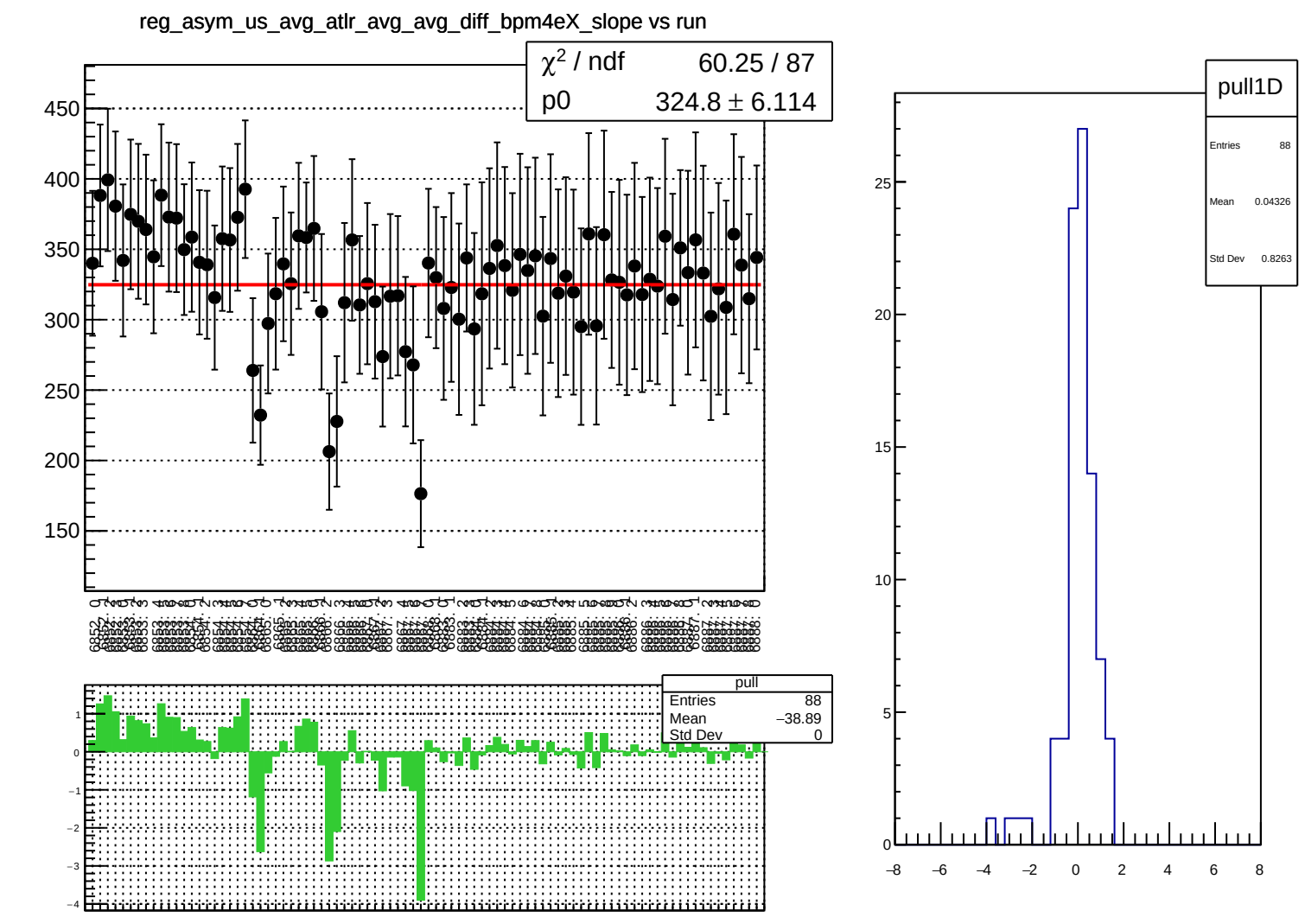

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.41 / 87
p0 −415.4 ± 7.539
pull
Entries 88
Mean 48.25
Std Dev 49.98
pull1D
Entries 88
Mean −0.0542
Std Dev 0.6498

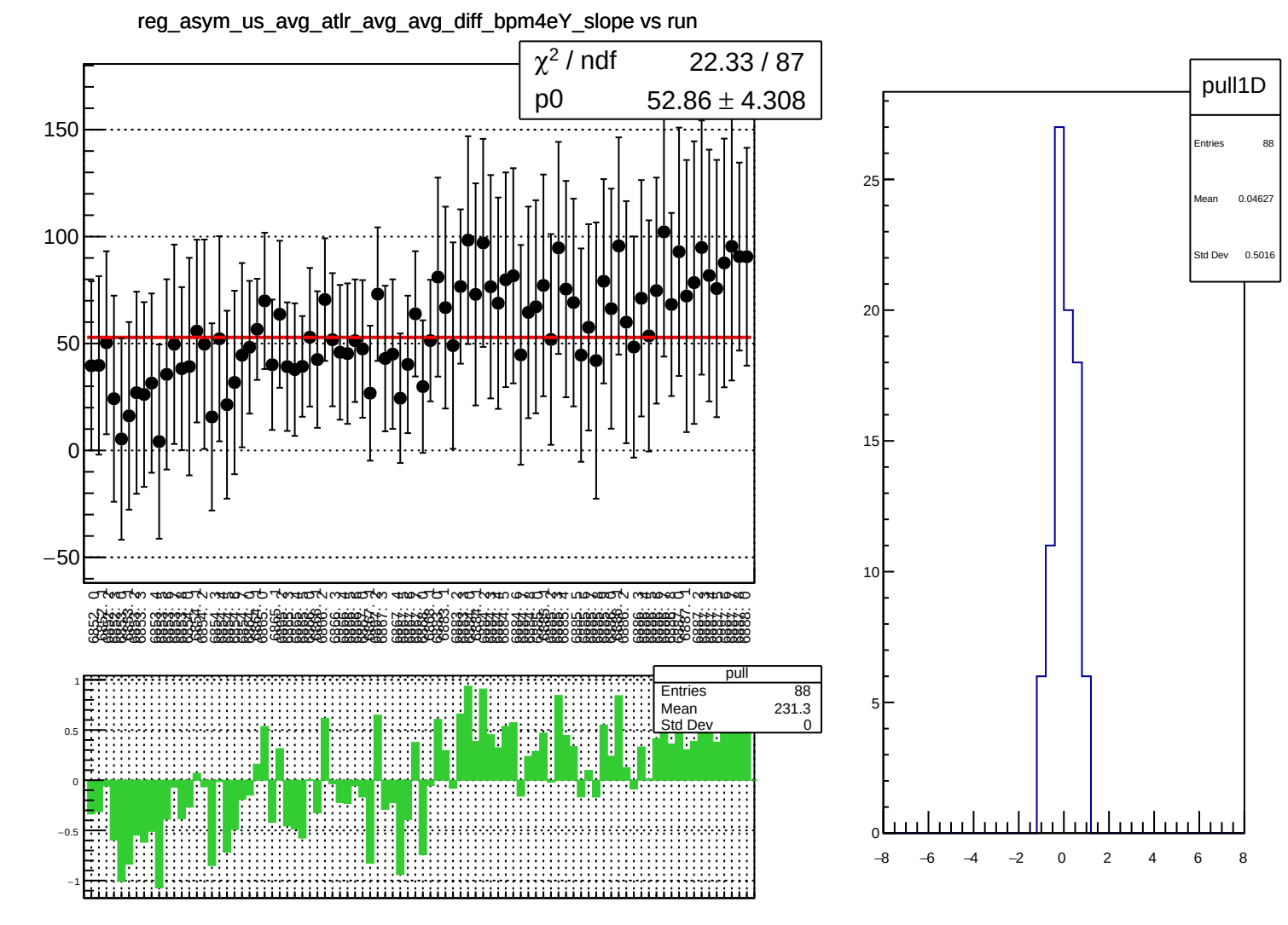

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 5.554 / 87
p0 −103.3 ± 5.32
0
−50
−100
−150
−200
pull
Entries 88
Mean 37
Std Dev 72.69
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 88
Mean −0.006924
Std Dev 0.2511
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

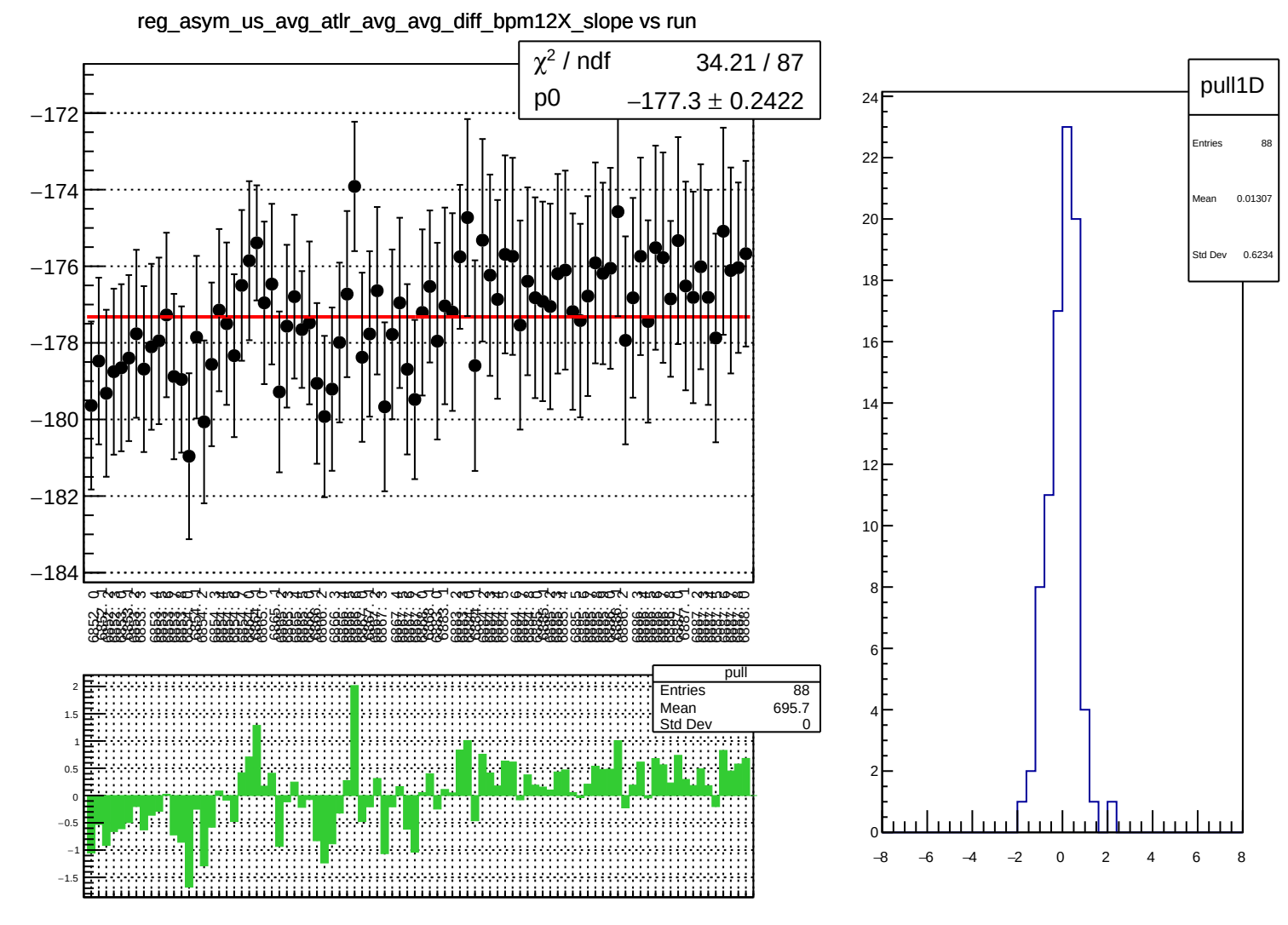

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 11.73 / 87
p0 224.1 ± 0.2991
230
228
226
224
222
220
pull
Entries 88
Mean 189.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 88
Mean 0.0193
Std Dev 0.3645
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

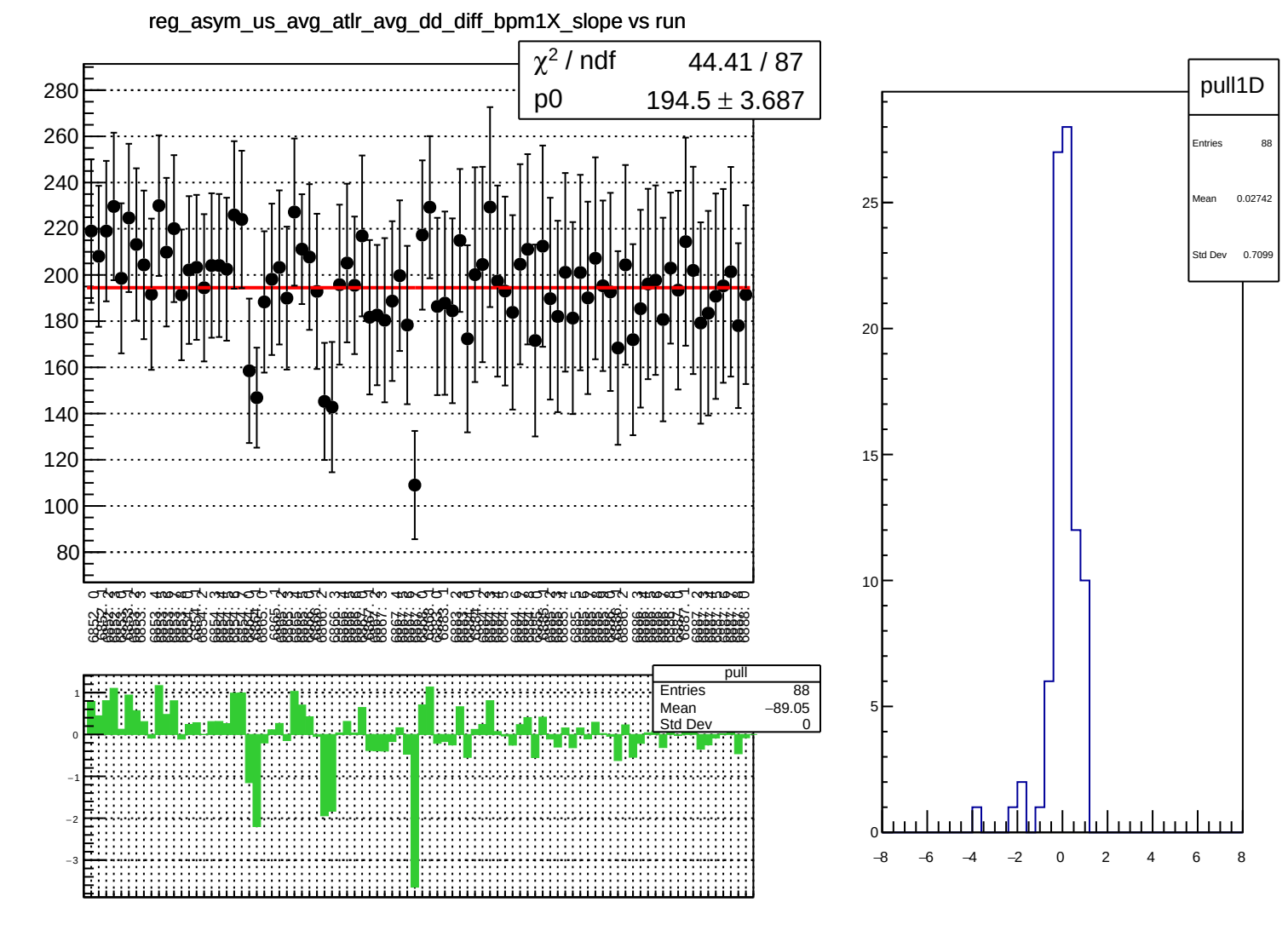

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 57.35 / 87
p0 −343 ± 6.435
−150
−200
−250
−300
−350
−400
−450
−500
pull
Entries 88
Mean −175.1
Std Dev 0
3
2
1
0
−1
pull1D
Entries 88
Mean −0.02606
Std Dev 0.8069
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

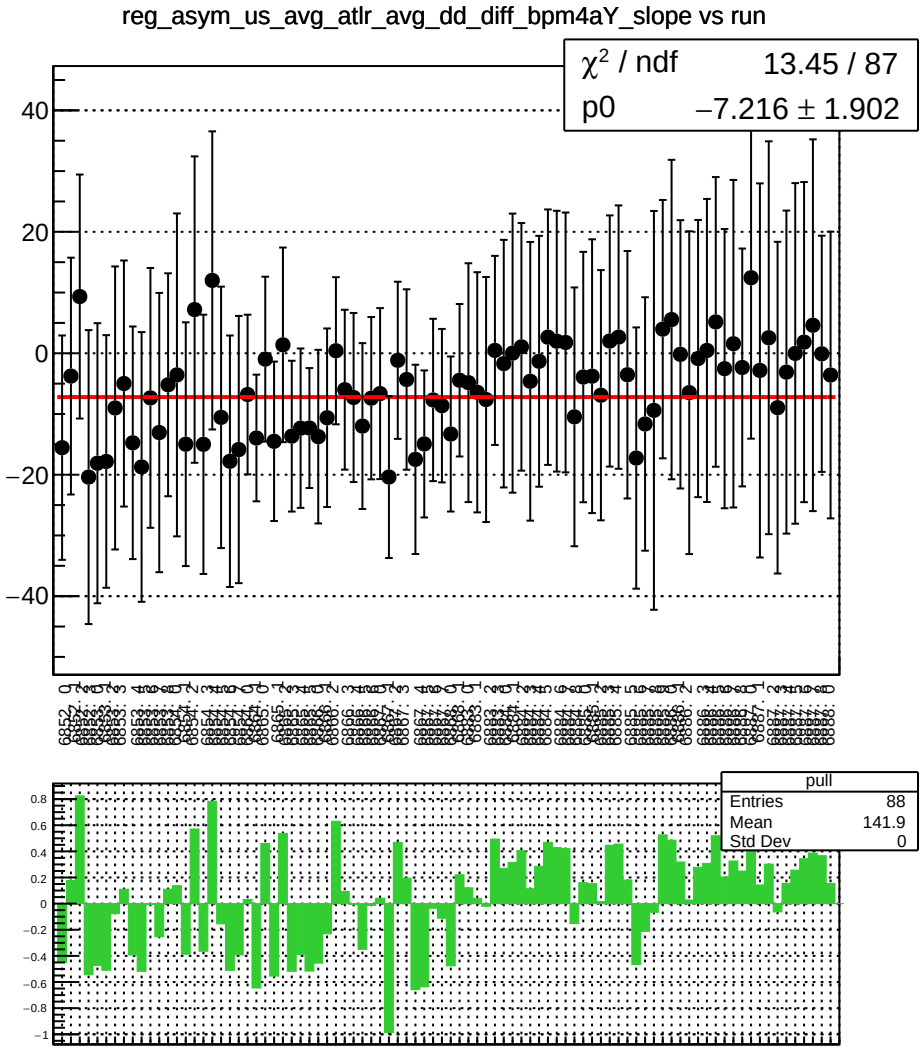

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.15 / 87
p0 18.27 ± 3.315
pull
Entries 88
Mean 205.3
Std Dev 0
pull1D
Entries 88
Mean −0.05264
Std Dev 0.5102

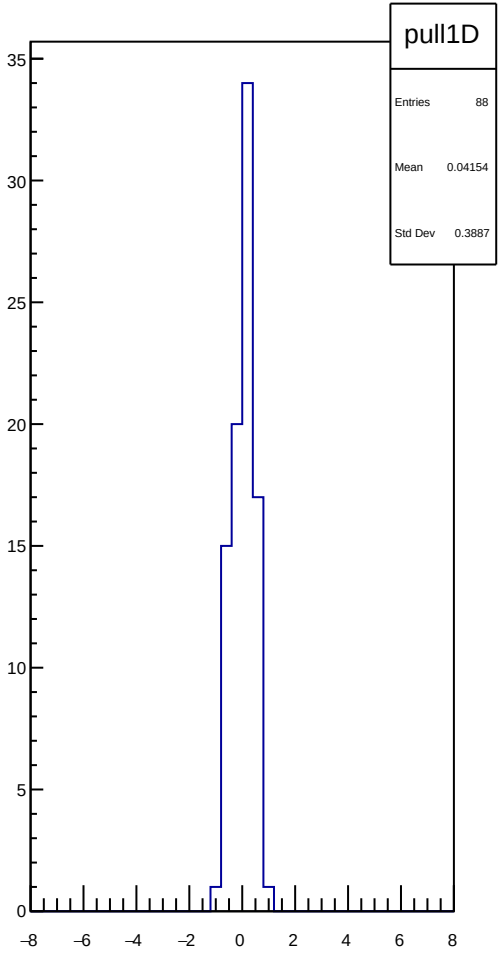

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.25 / 87
p0 324.8 ± 6.114
pull
Entries 88
Mean −38.89
Std Dev 0
pull1D
Entries 88
Mean 0.04326
Std Dev 0.8263

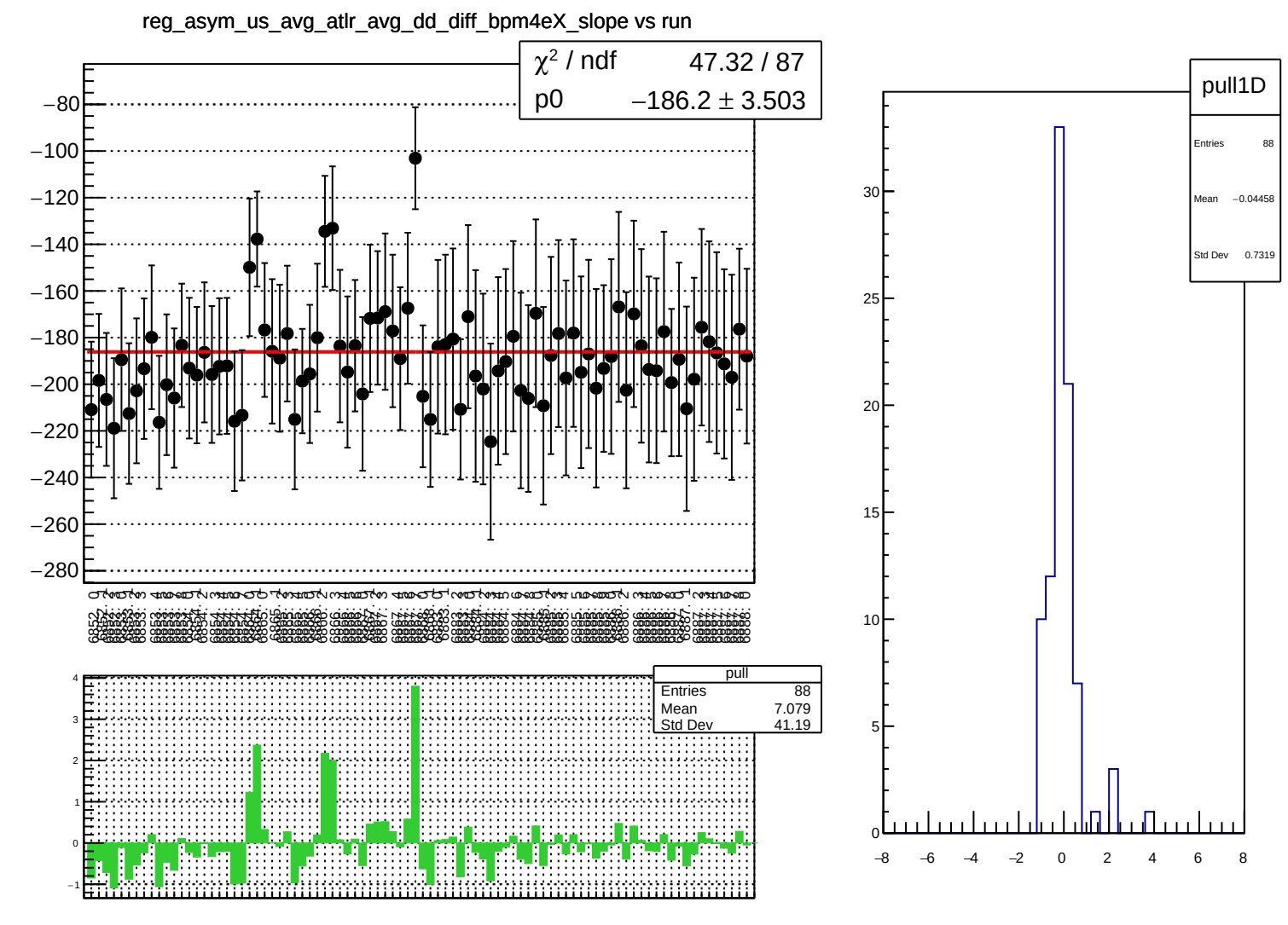

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.33 / 87
p0 52.86 ± 4.308
150
100
50
0
−50
pull
Entries 88
Mean 231.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 88
Mean 0.04627
Std Dev 0.5016
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

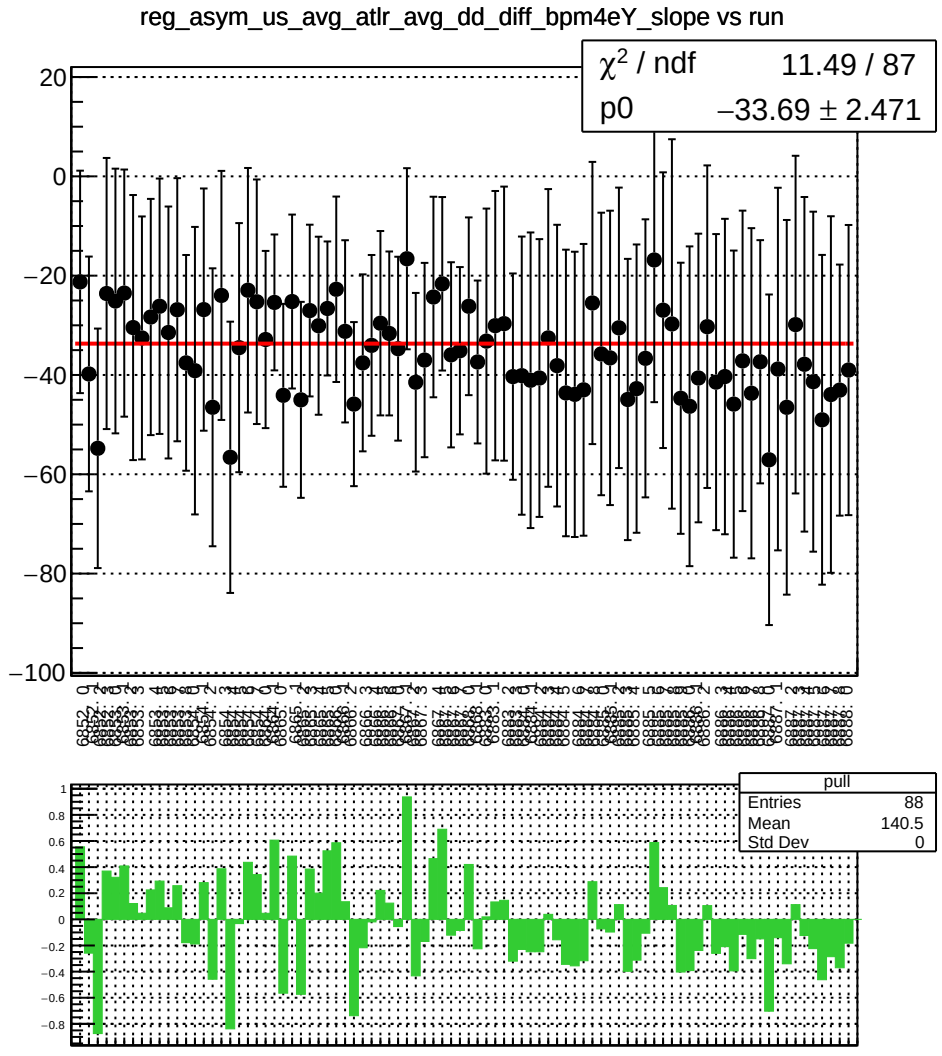

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 34.21 / 87
p0 −177.3 ± 0.2422
−172
−174
−176
−178
−180
−182
−184
pull
Entries 88
Mean 695.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean 0.01307
Std Dev 0.6234
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

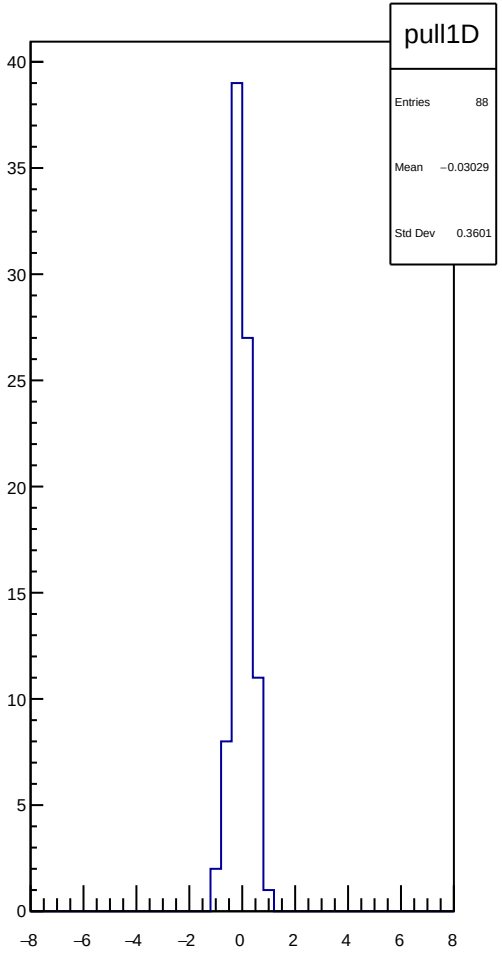

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 44.41 / 87
p0 194.5 ± 3.687
pull
Entries 88
Mean −89.05
Std Dev 0
pull1D
Entries 88
Mean 0.02742
Std Dev 0.7099

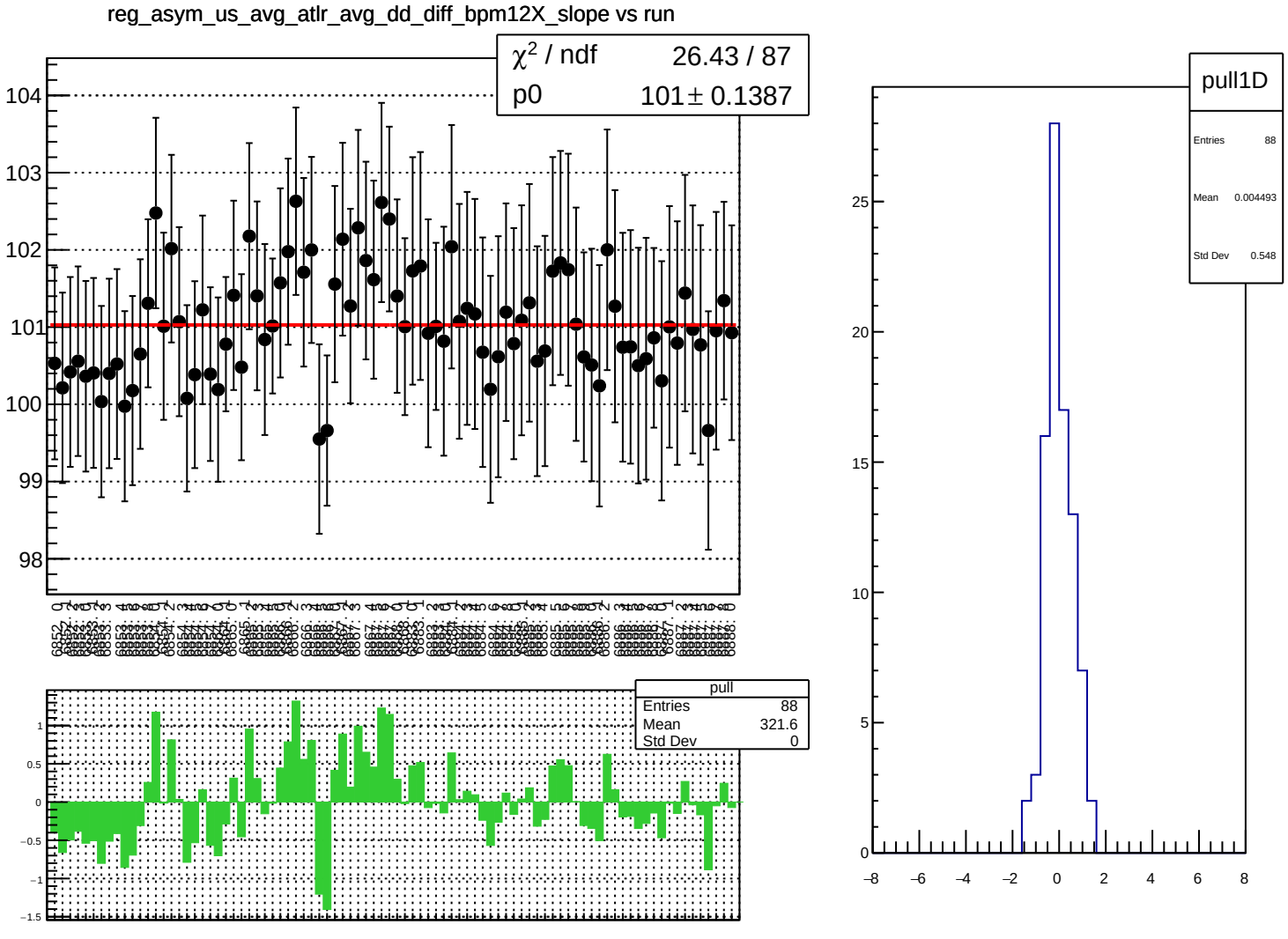

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.45 / 87
p0 −7.216 ± 1.902
pull
Entries 88
Mean 141.9
Std Dev 0

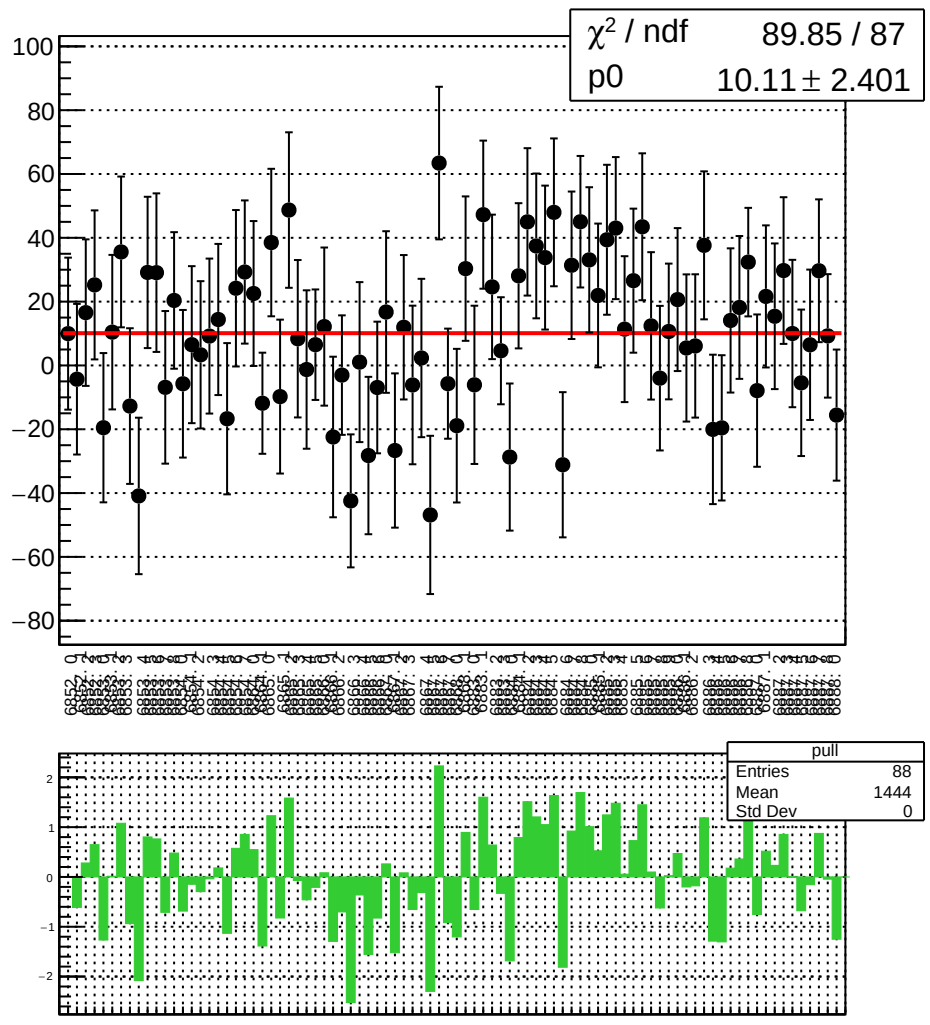

pull1D
Entries 88
Mean 0.04154
Std Dev 0.3887

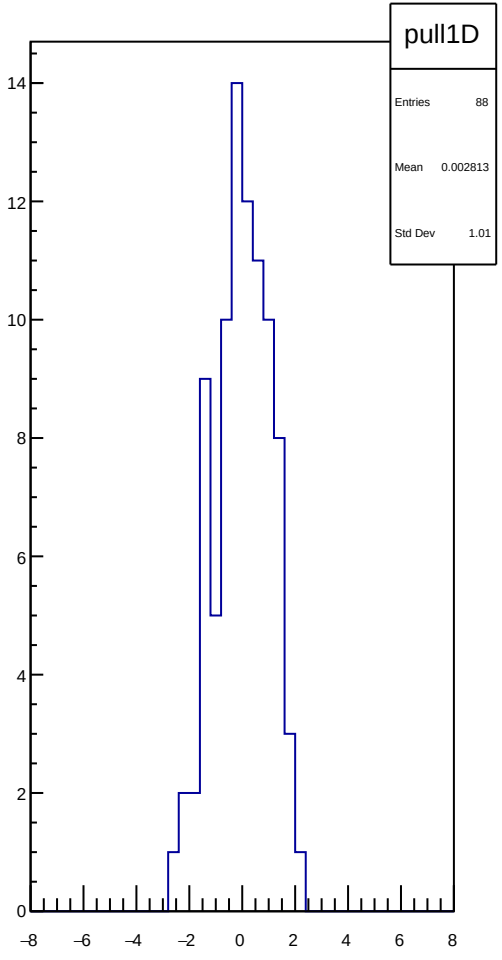

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.32 / 87
p0 −186.2 ± 3.503
pull
Entries 88
Mean 7.079
Std Dev 41.19
pull1D
Entries 88
Mean −0.04458
Std Dev 0.7319

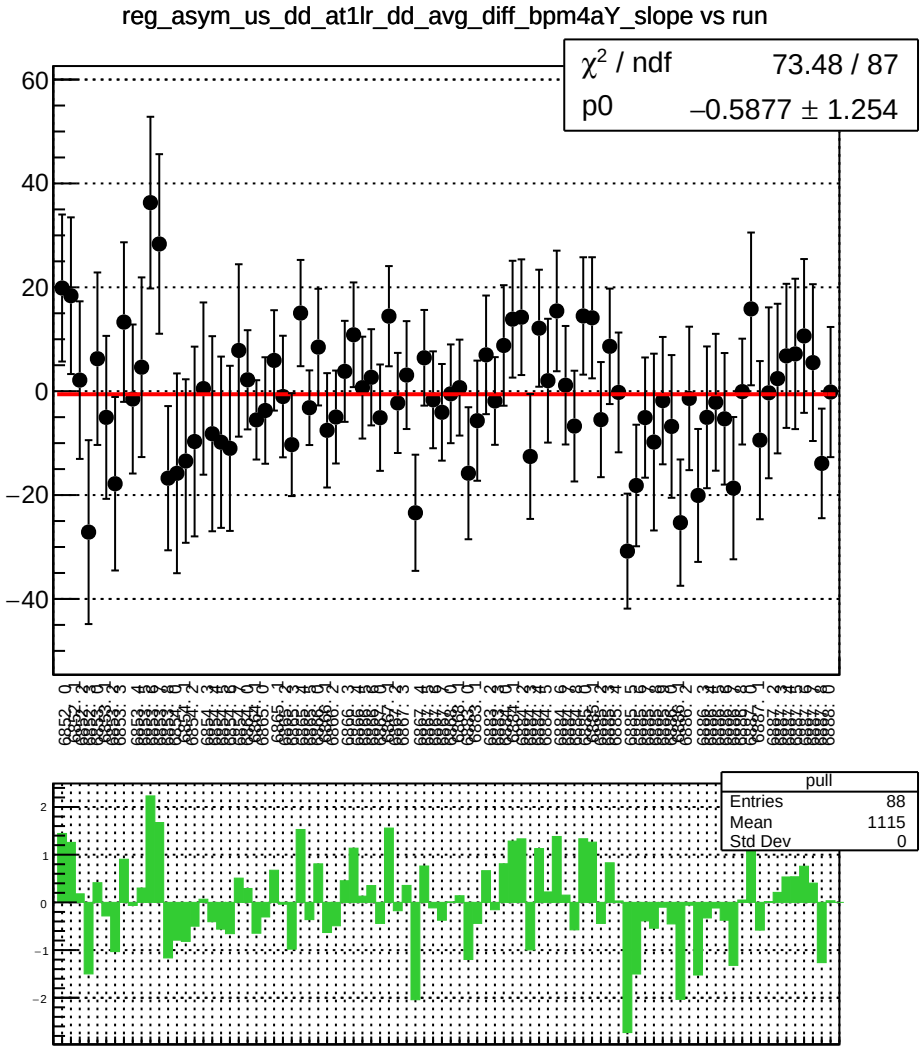

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.49 / 87
p0 −33.69 ± 2.471
pull
Entries 88
Mean 140.5
Std Dev 0

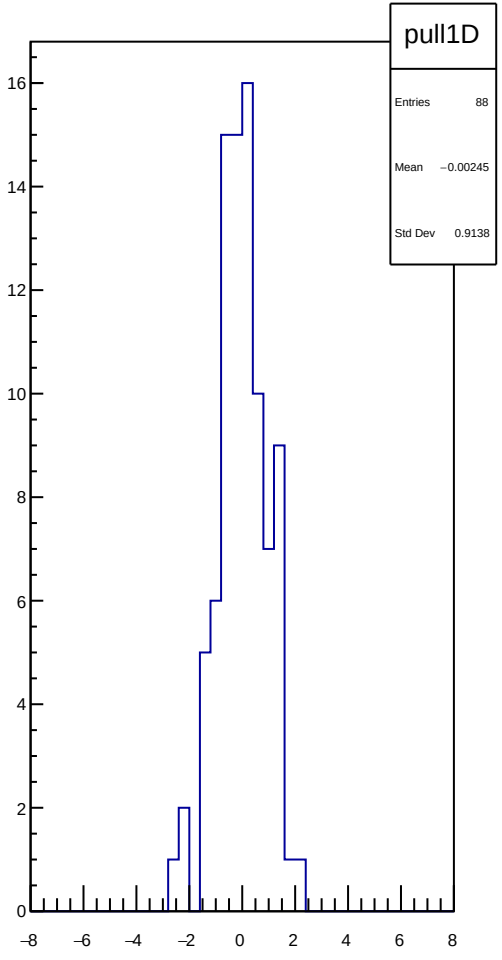

pull1D
Entries 88
Mean −0.03029
Std Dev 0.3601

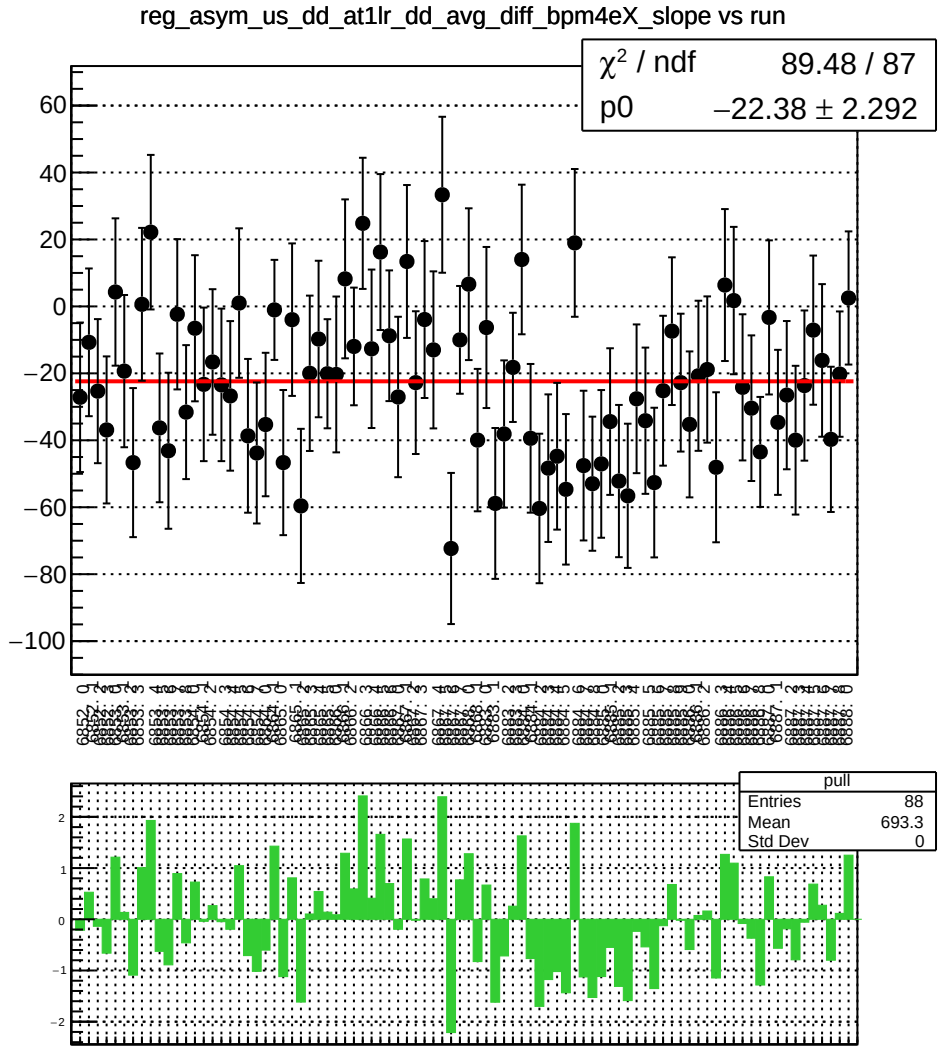

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 26.43 / 87
p0 101 ± 0.1387
104
103
102
101
100
99
98
pull
Entries 88
Mean 321.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 88
Mean 0.004493
Std Dev 0.548
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

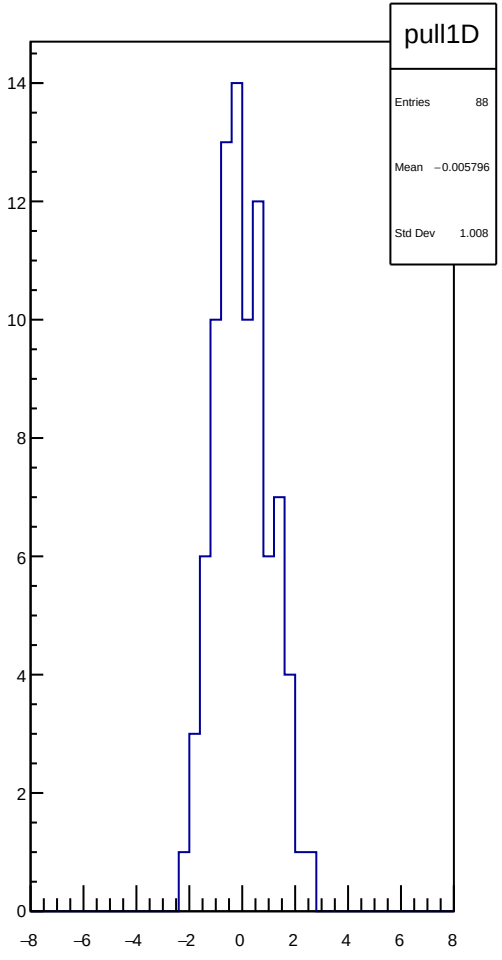

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 89.85 / 87
p0 10.11 ± 2.401
pull
Entries 88
Mean 1444
Std Dev 0

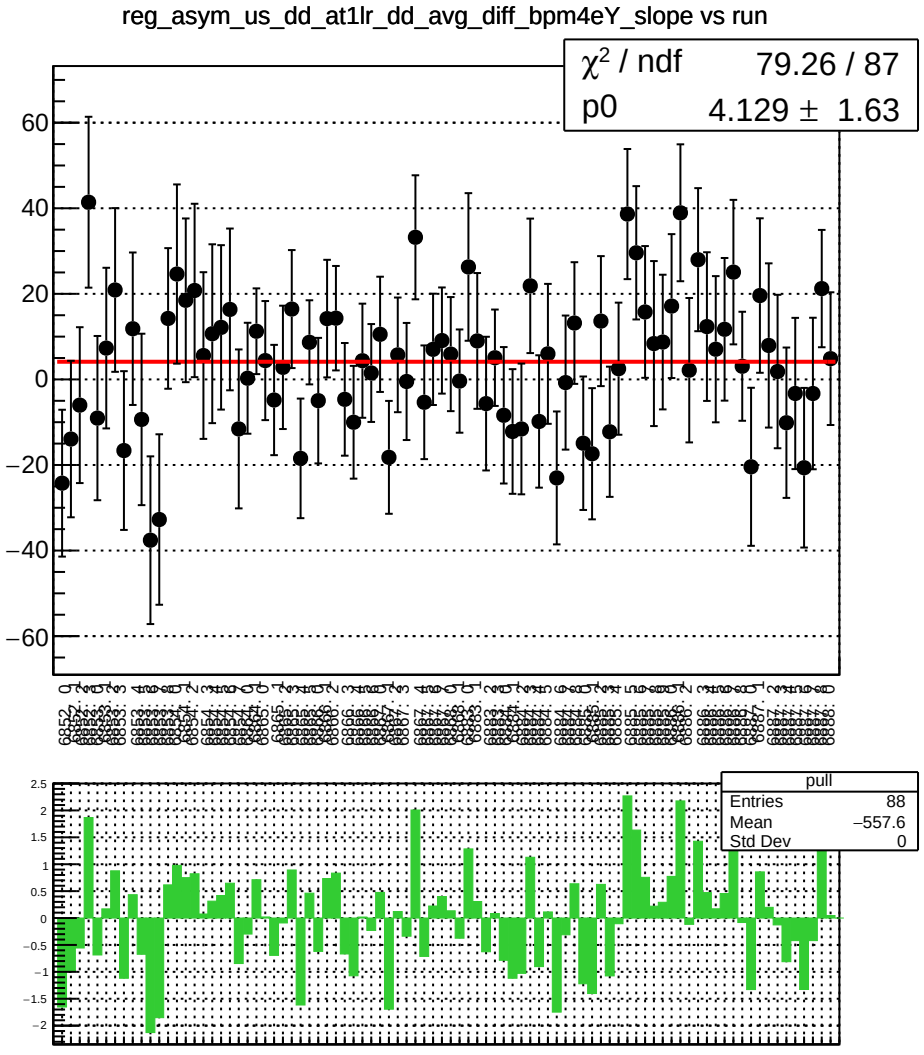

pull1D
Entries 88
Mean 0.002813
Std Dev 1.01

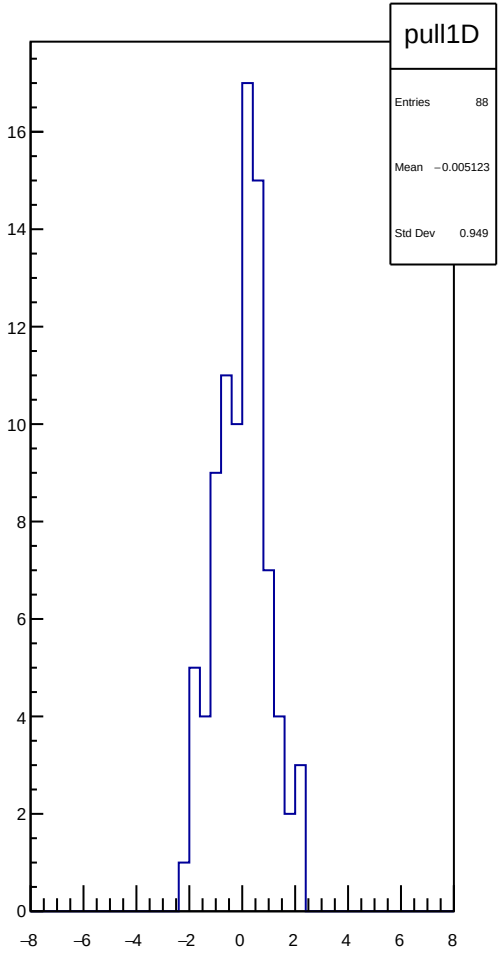

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.48 / 87
p0 −0.5877 ± 1.254
pull
Entries 88
Mean 1115
Std Dev 0

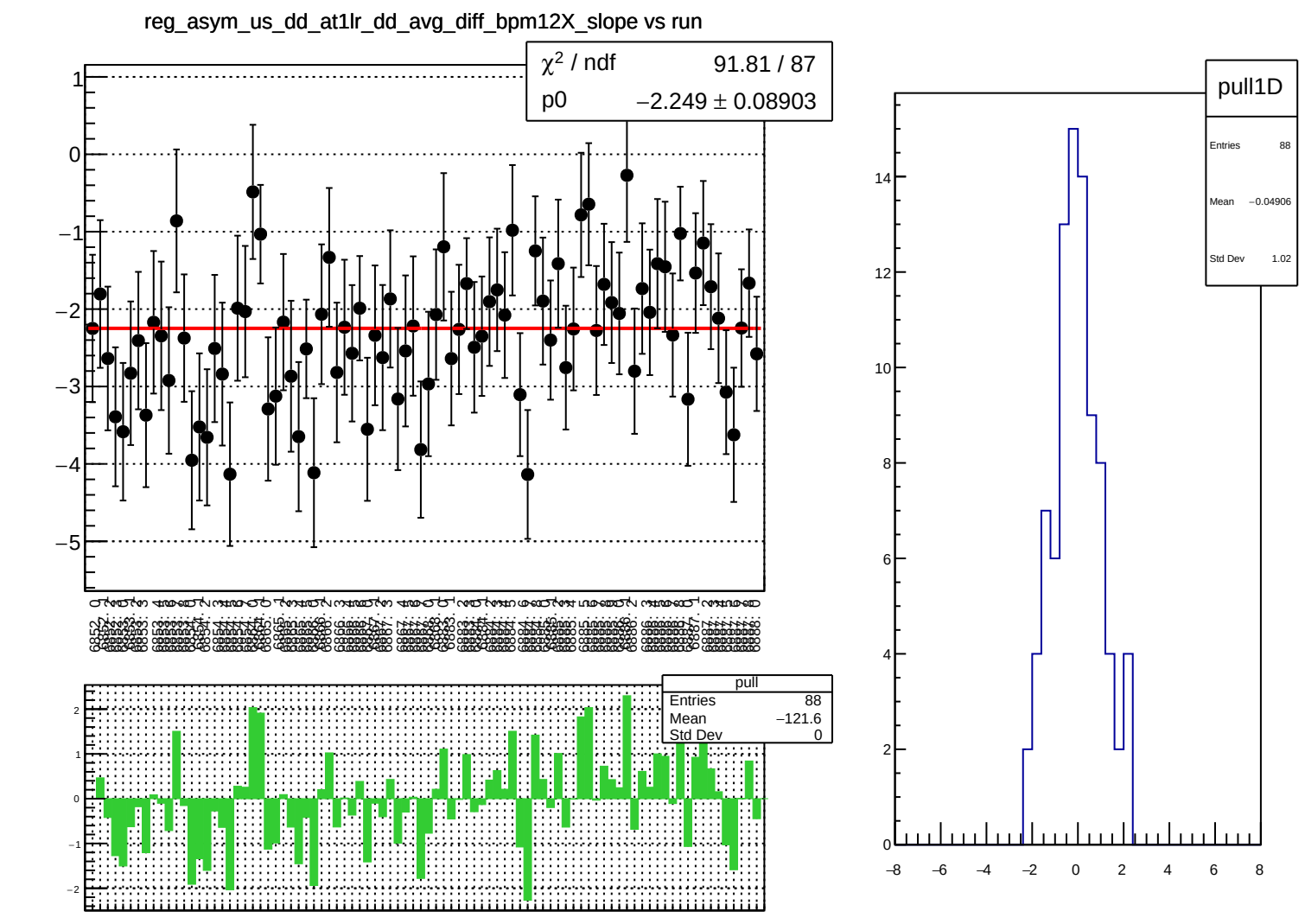

pull1D
Entries 88
Mean −0.00245
Std Dev 0.9138

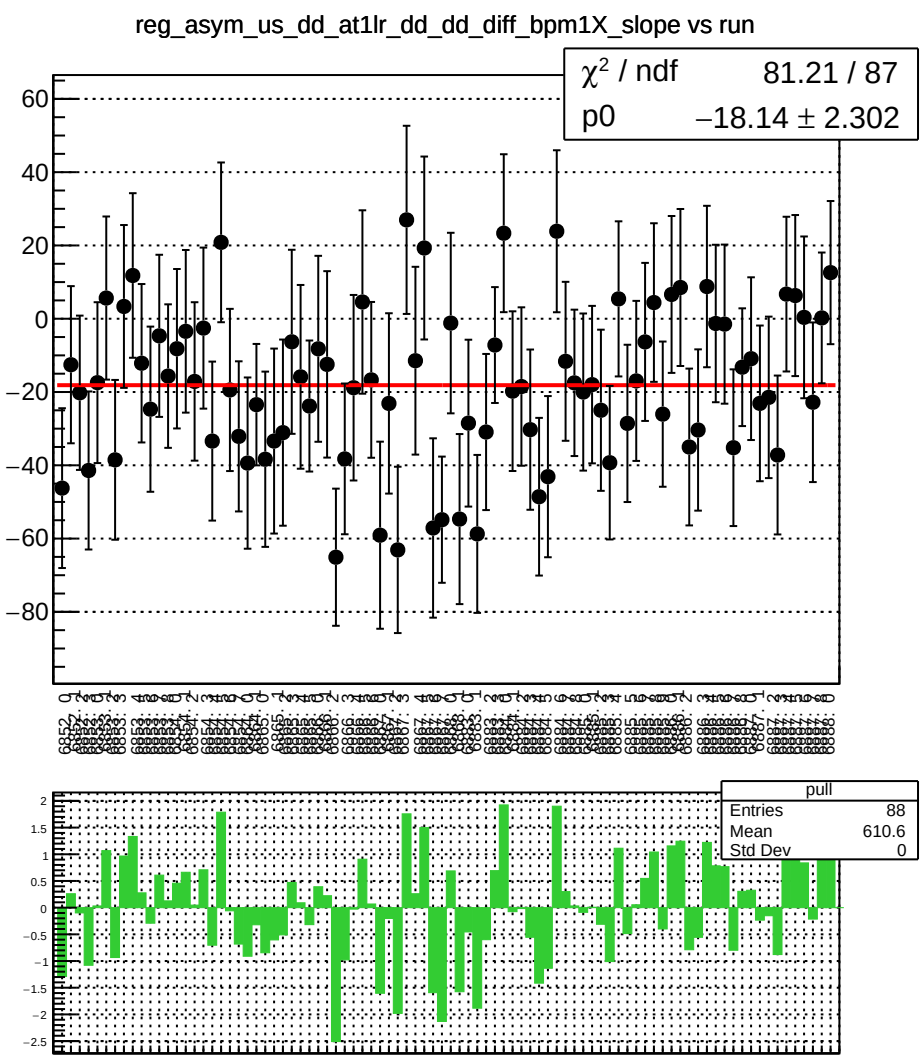

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 89.48 / 87
p0 −22.38 ± 2.292
pull
Entries 88
Mean 693.3
Std Dev 0

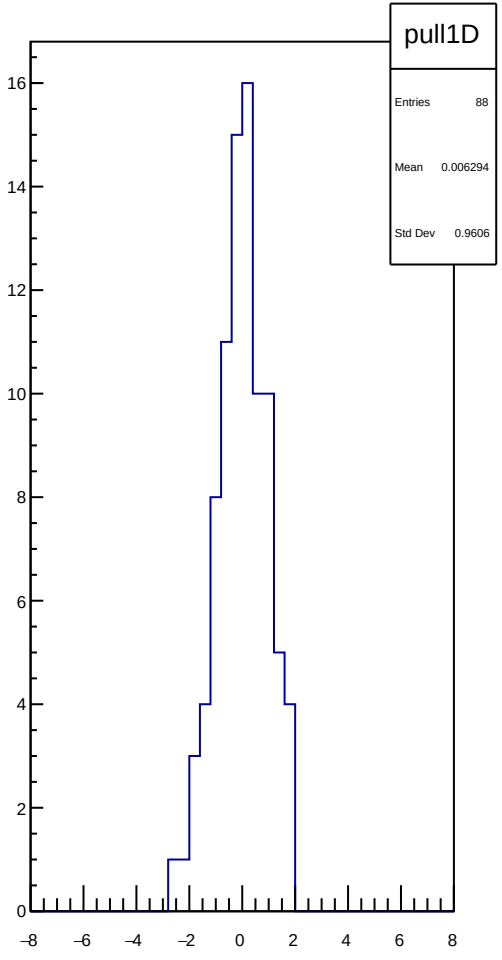

pull1D
Entries 88
Mean −0.005796
Std Dev 1.008

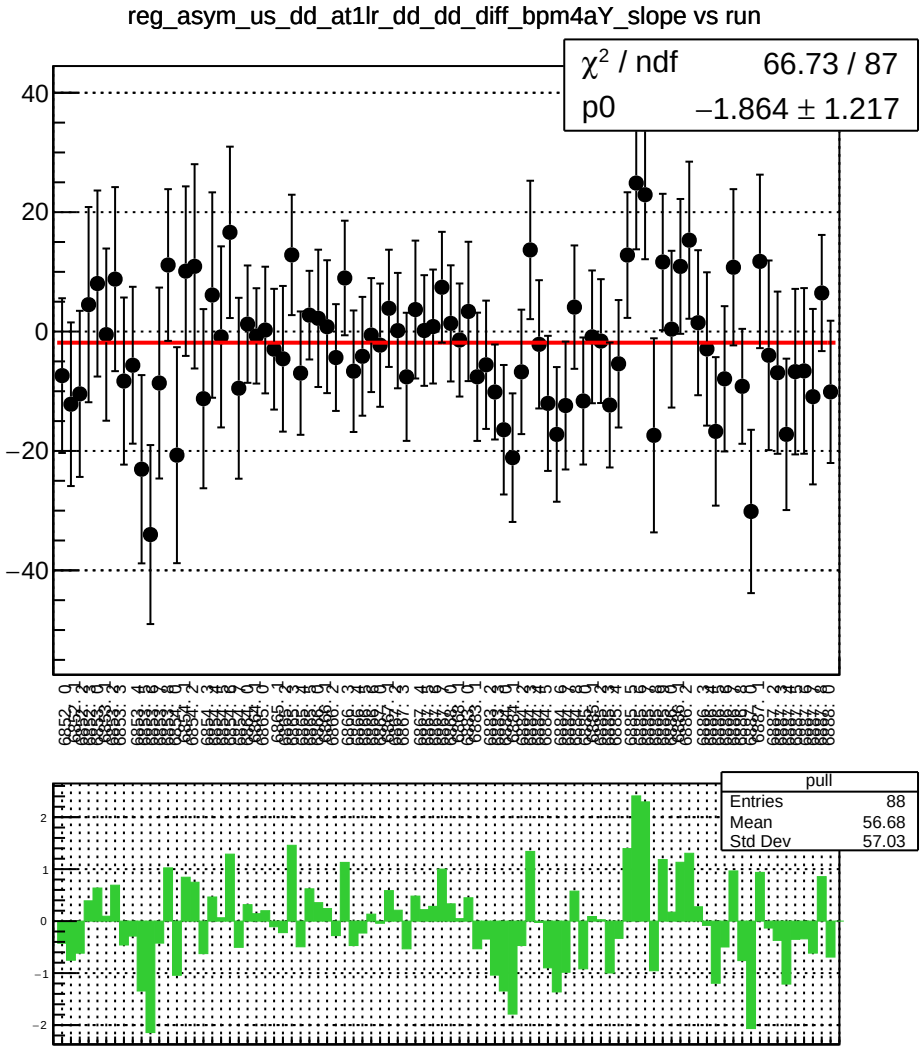

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.26 / 87
p0 4.129 ± 1.63
pull
Entries 88
Mean −557.6
Std Dev 0

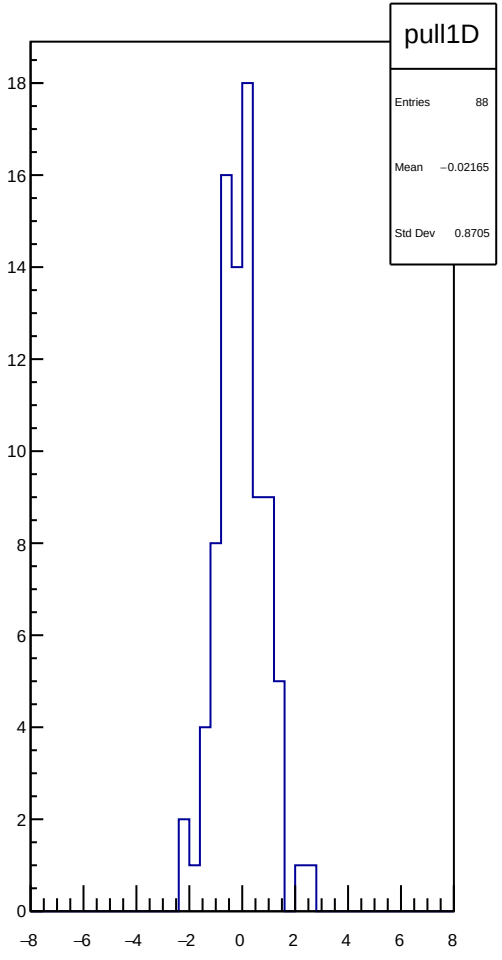

pull1D
Entries 88
Mean −0.005123
Std Dev 0.949

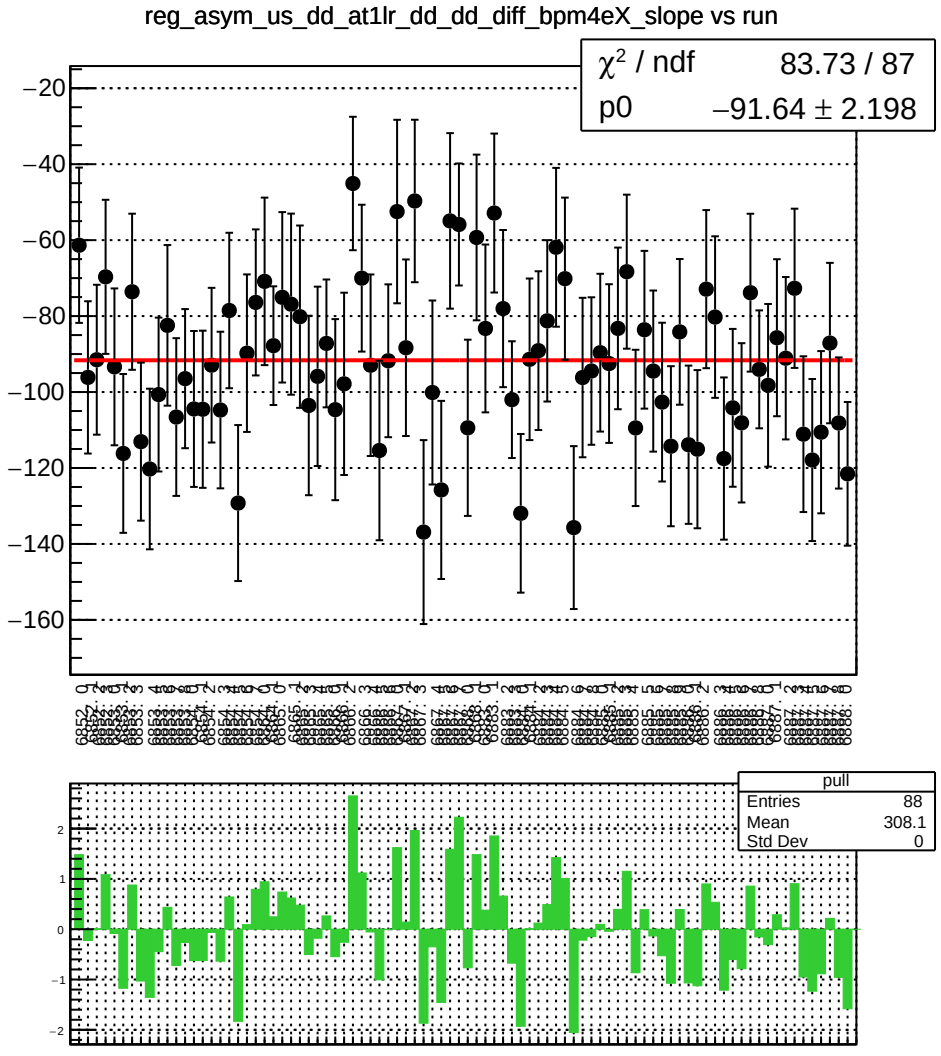

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 91.81 / 87
p0 −2.249 ± 0.08903
pull
Entries 88
Mean −121.6
Std Dev 0
pull1D
Entries 88
Mean −0.04906
Std Dev 1.02

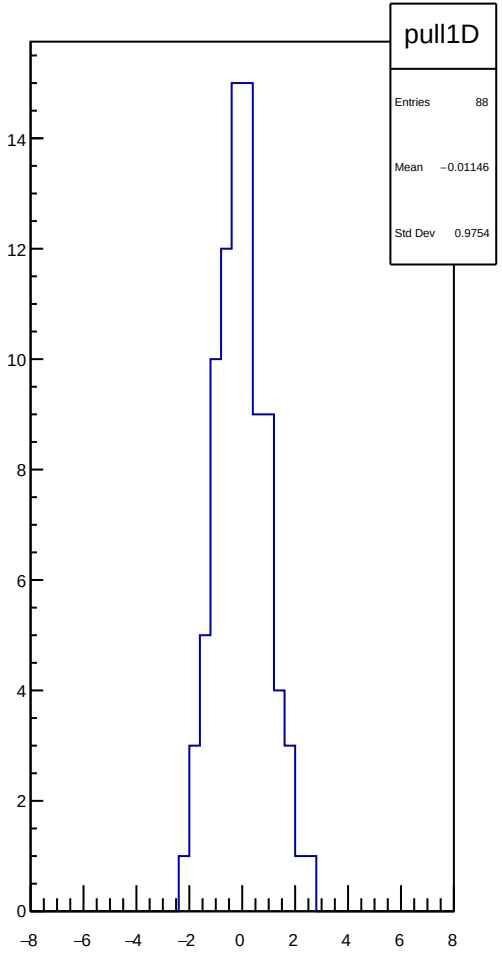

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 81.21 / 87
p0 −18.14 ± 2.302
pull
Entries 88
Mean 610.6
Std Dev 0

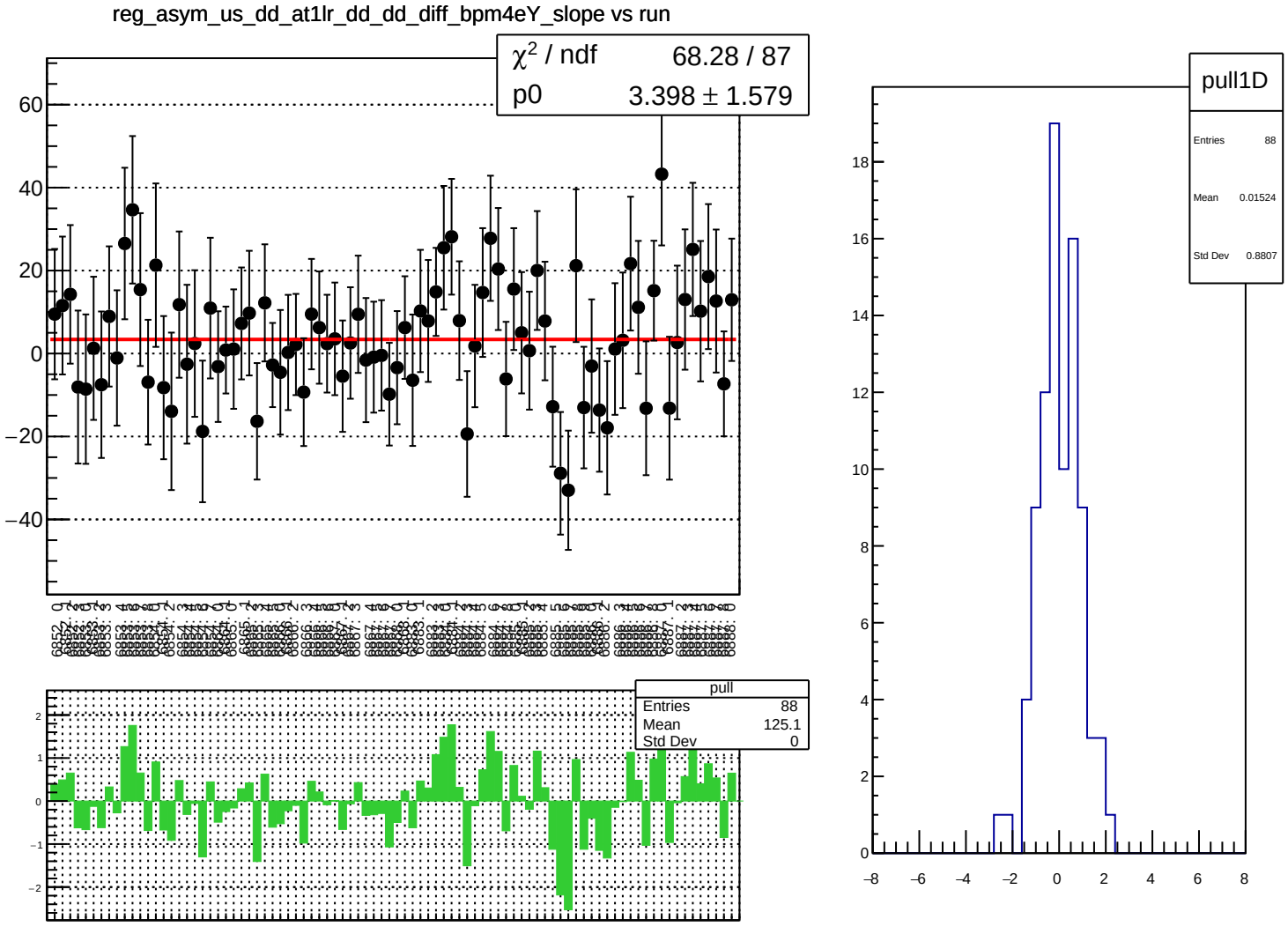

pull1D
Entries 88
Mean 0.006294
Std Dev 0.9606

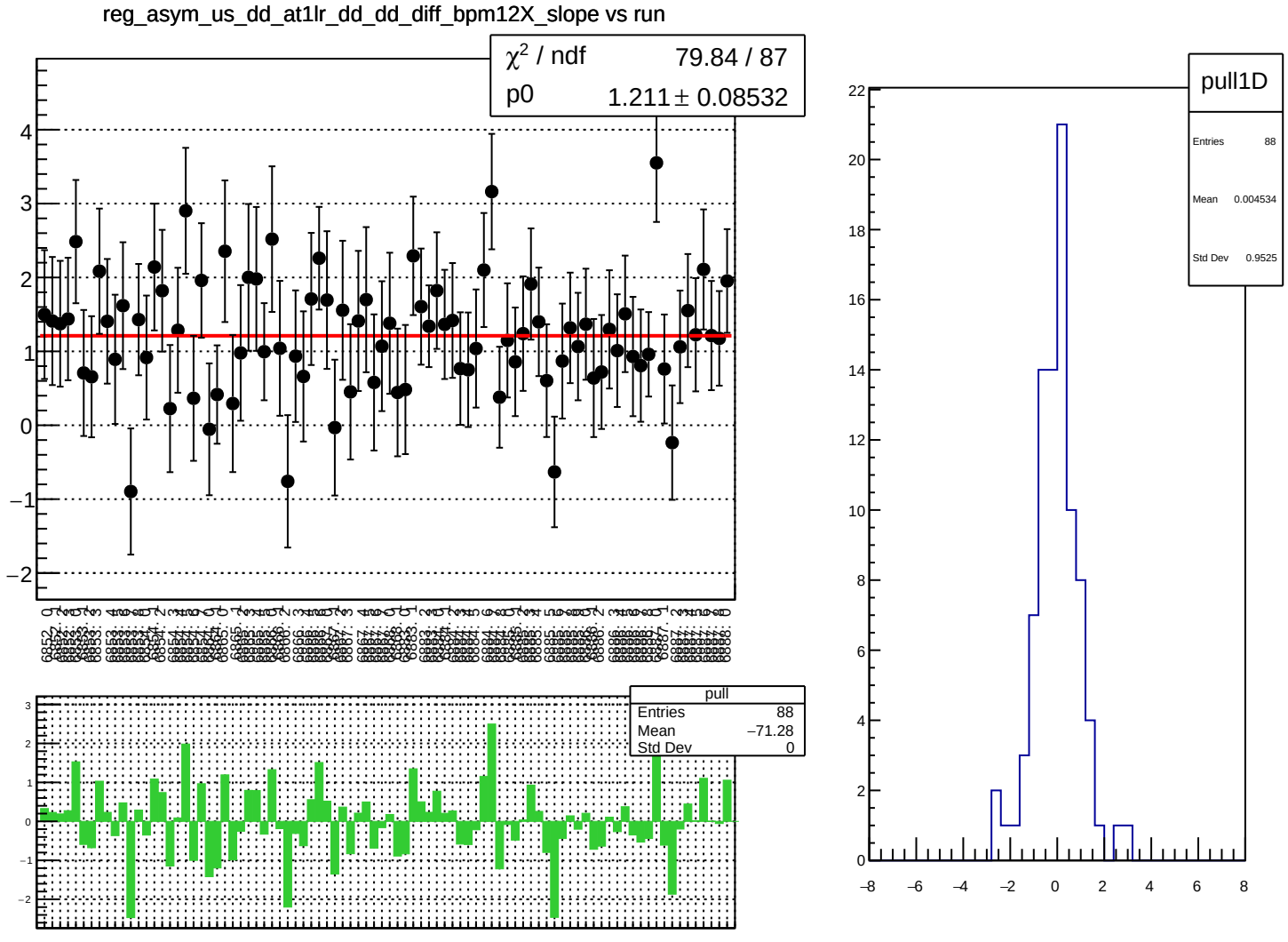

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.73 / 87
p0 −1.864 ± 1.217
pull
Entries 88
Mean 56.68
Std Dev 57.03

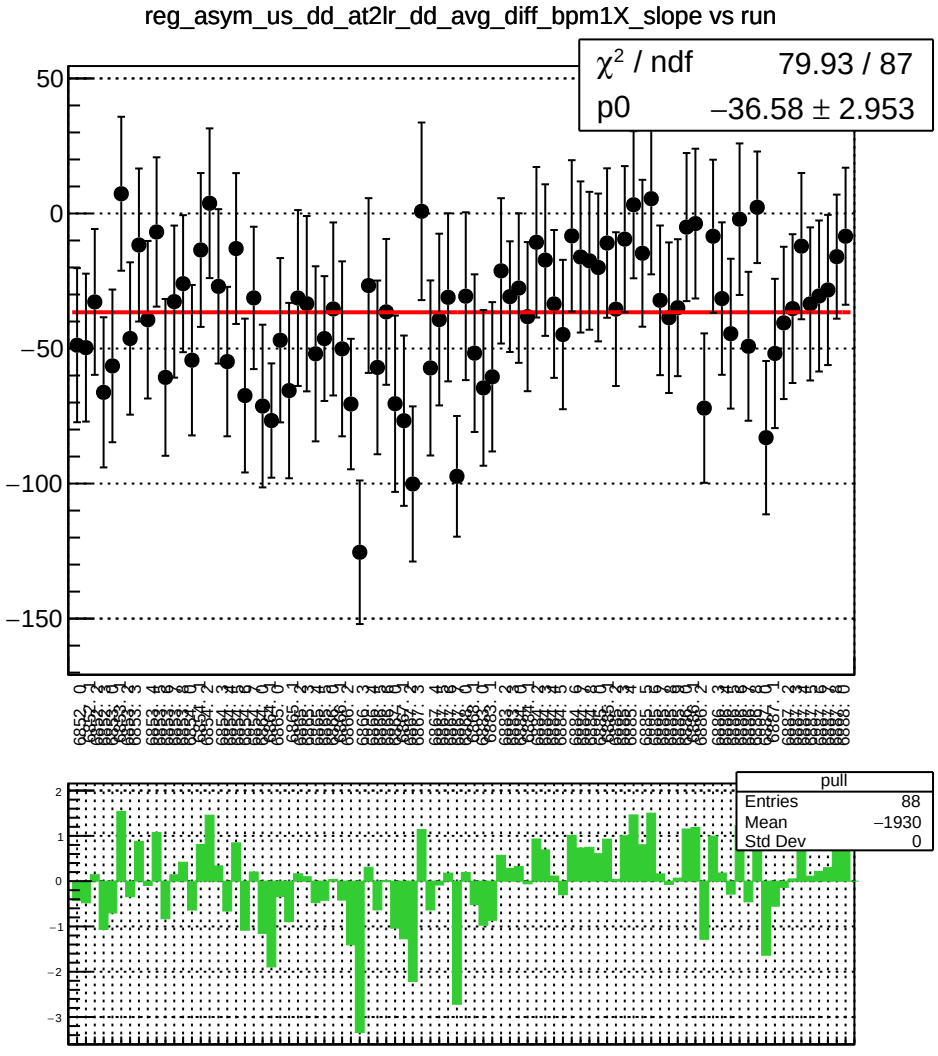

pull1D
Entries 88
Mean −0.02165
Std Dev 0.8705

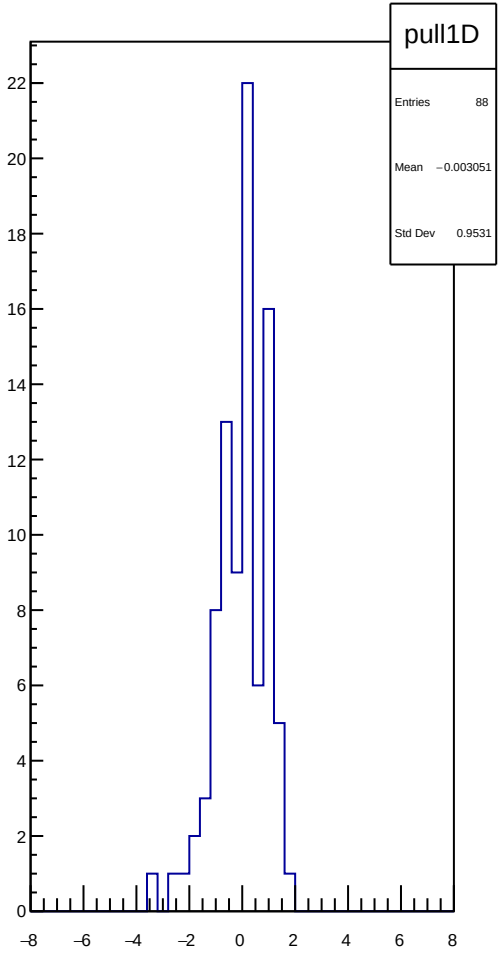

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.73 / 87
p0 −91.64 ± 2.198
pull
Entries 88
Mean 308.1
Std Dev 0

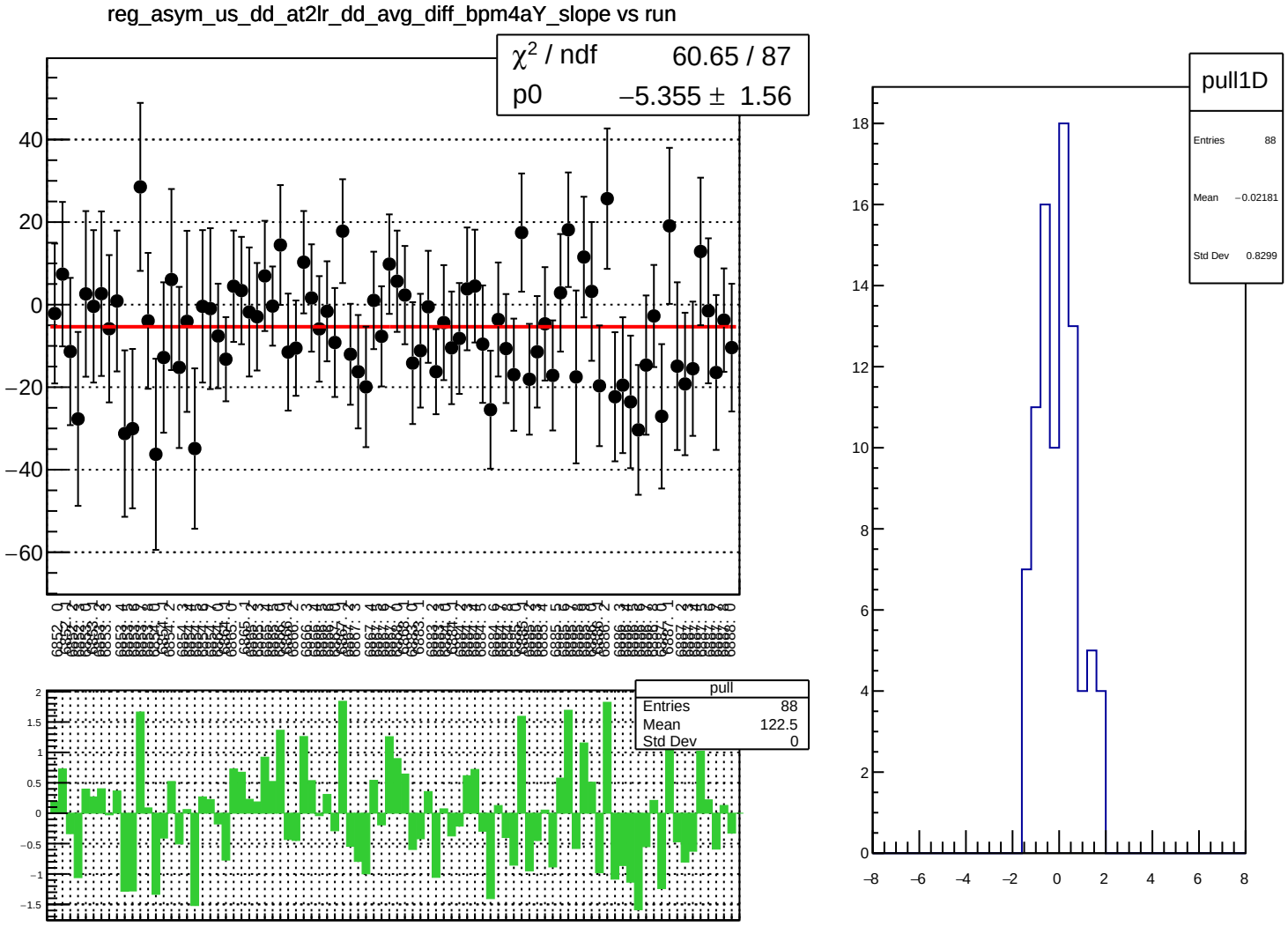

pull1D
Entries 88
Mean −0.01146
Std Dev 0.9754

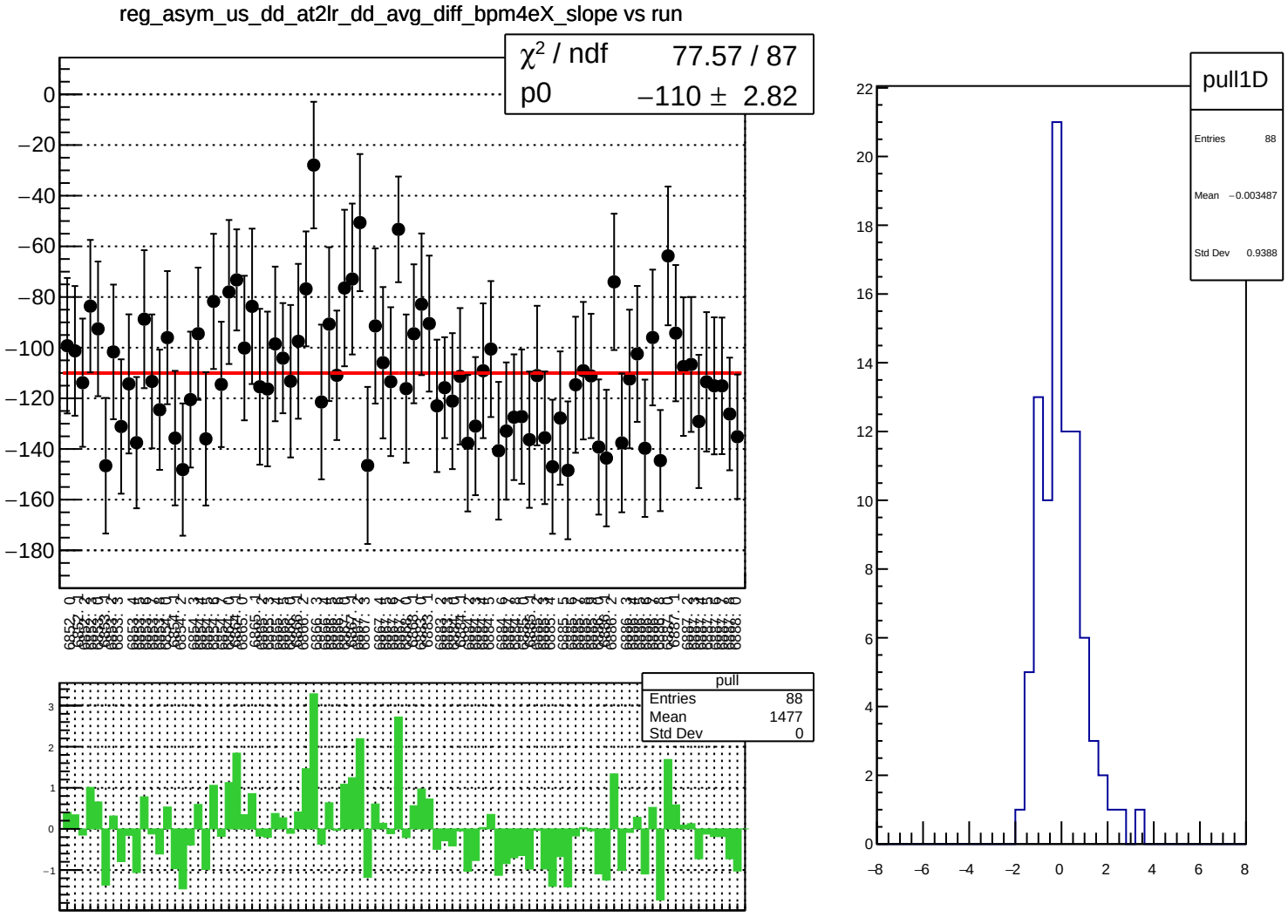

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.28 / 87
p0 3.398 ± 1.579
pull
Entries 88
Mean 125.1
Std Dev 0
pull1D
Entries 88
Mean 0.01524
Std Dev 0.8807

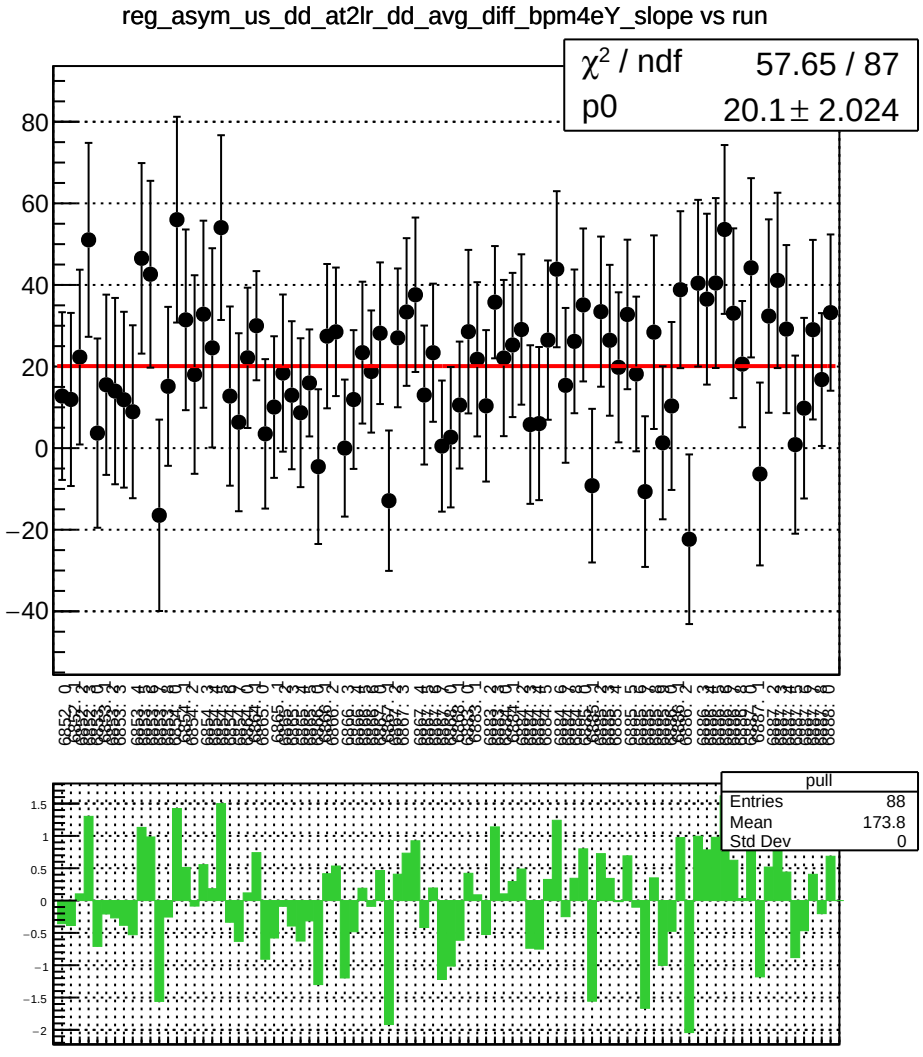

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 79.84 / 87
p0 1.211 ± 0.08532
pull
Entries 88
Mean −71.28
Std Dev 0
pull1D
Entries 88
Mean 0.004534
Std Dev 0.9525

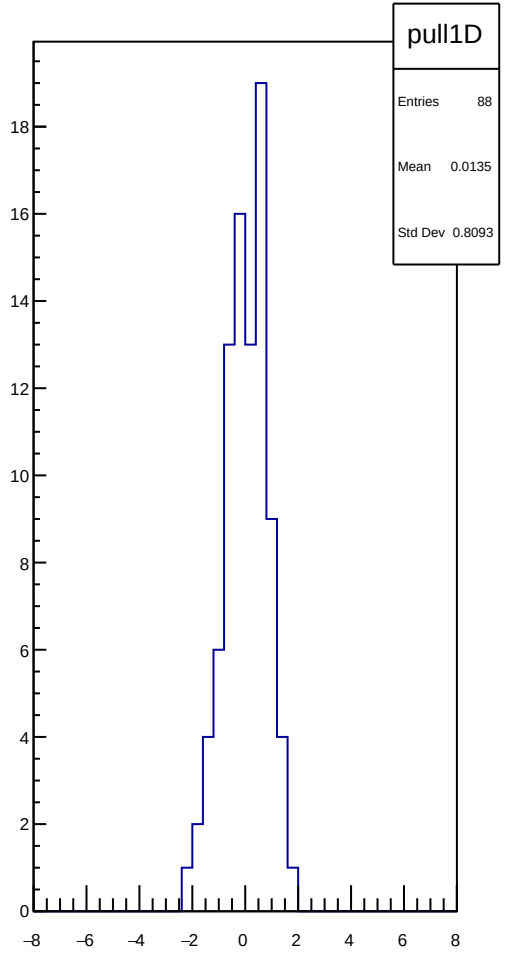

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 79.93 / 87
p0 −36.58 ± 2.953
50
0
−50
−100
−150
pull
Entries 88
Mean −1930
Std Dev 0
2
1
0
−1
−2
−3

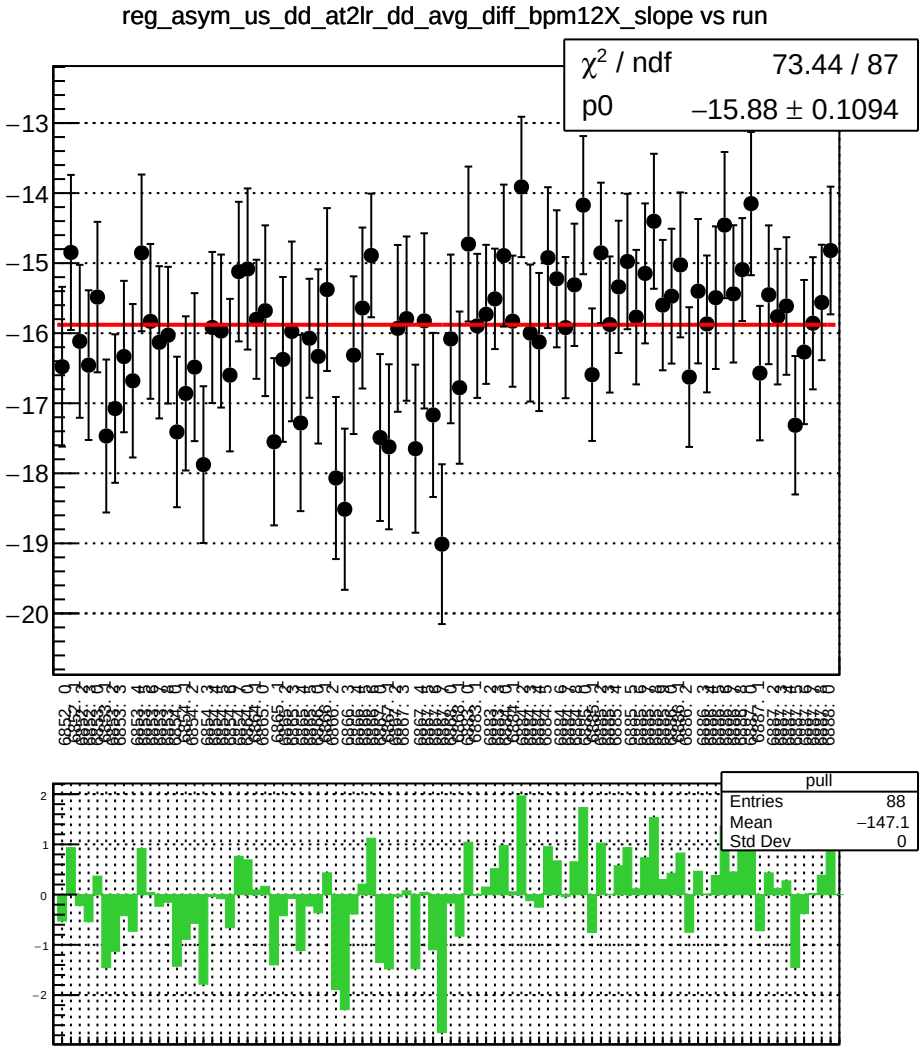

pull1D
Entries 88
Mean −0.003051
Std Dev 0.9531
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

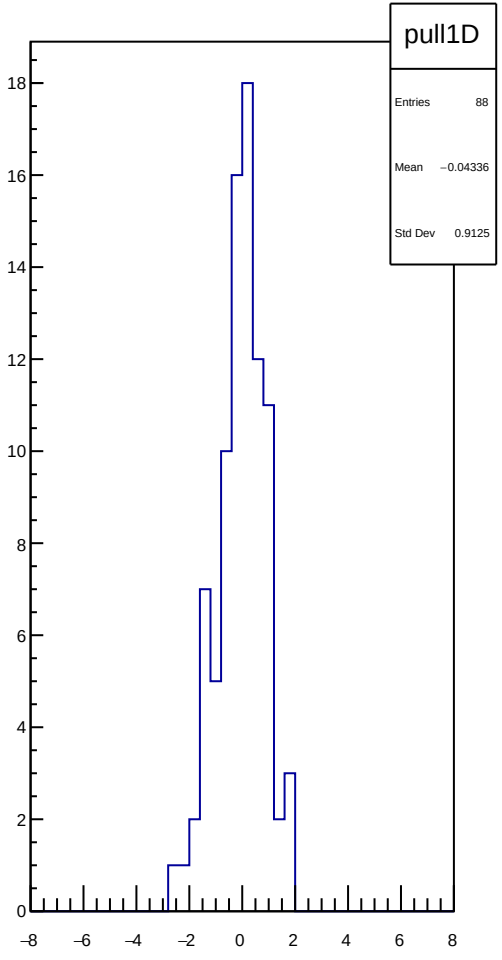

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.65 / 87
p0 −5.355 ± 1.56
pull
Entries 88
Mean 122.5
Std Dev 0
pull1D
Entries 88
Mean −0.02181
Std Dev 0.8299

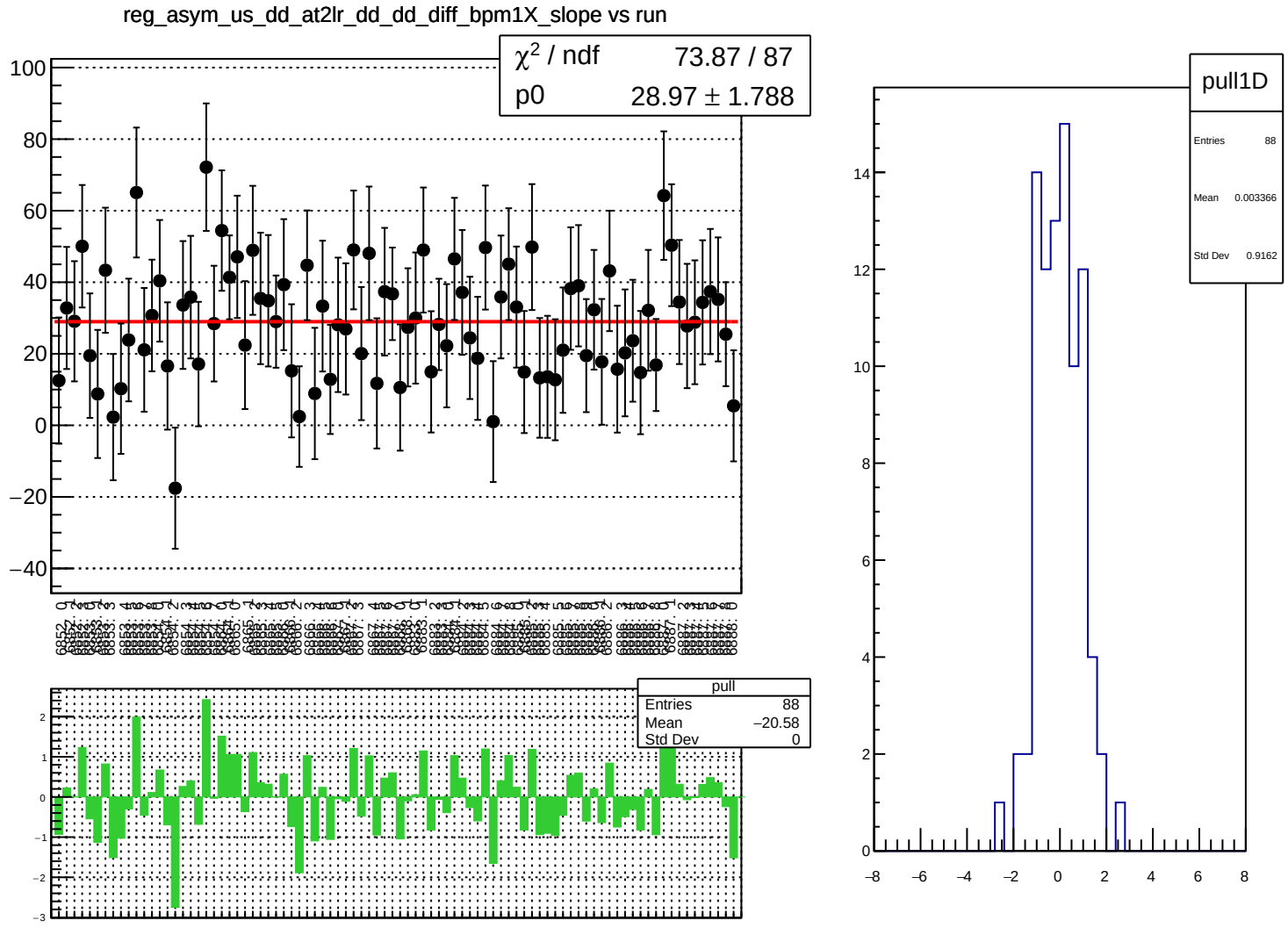

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.57 / 87
p0 −110 ± 2.82
pull
Entries 88
Mean 1477
Std Dev 0
pull1D
Entries 88
Mean −0.003487
Std Dev 0.9388

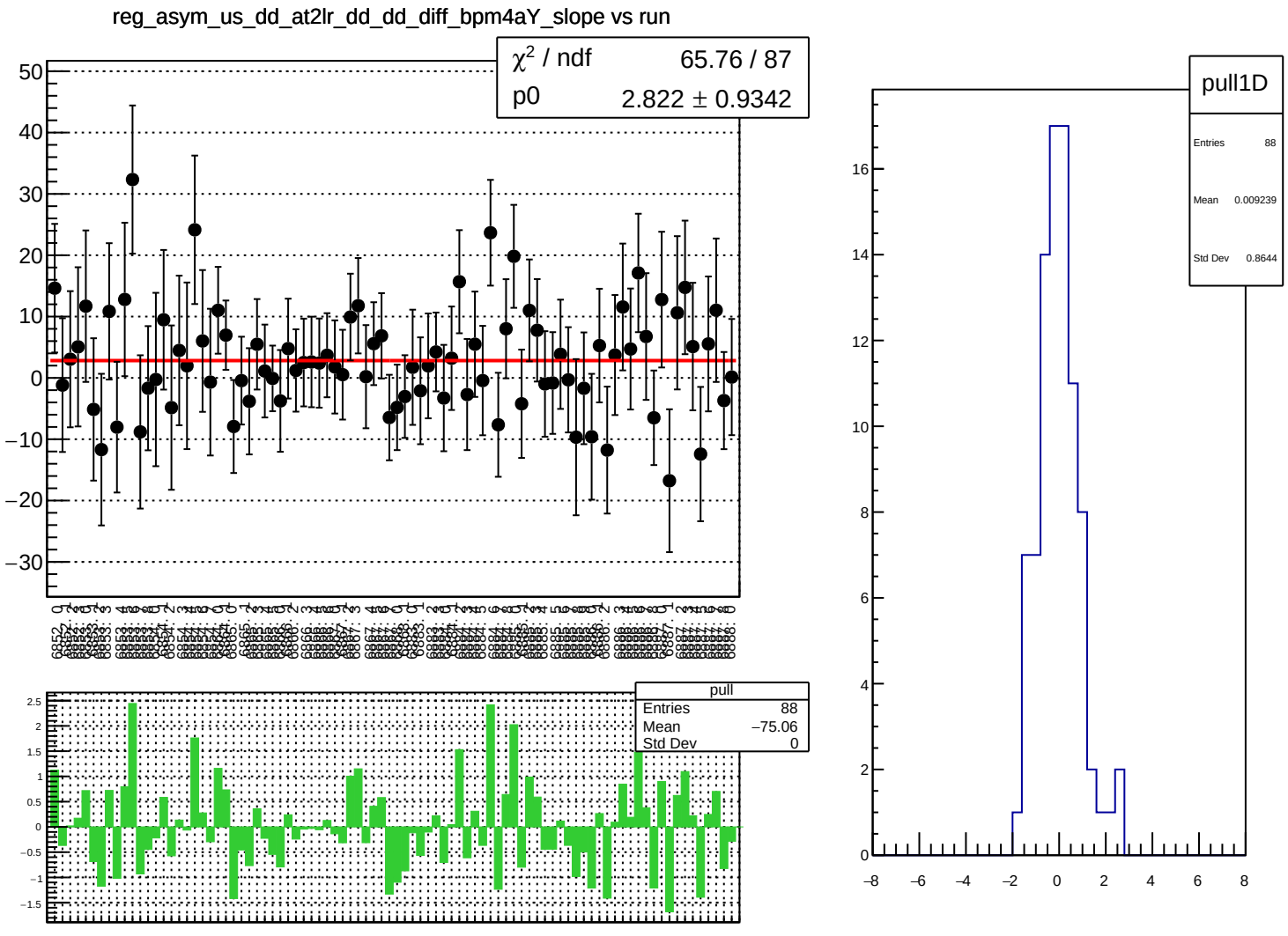

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 57.65 / 87
p0 20.1 ± 2.024
pull
Entries 88
Mean 173.8
Std Dev 0

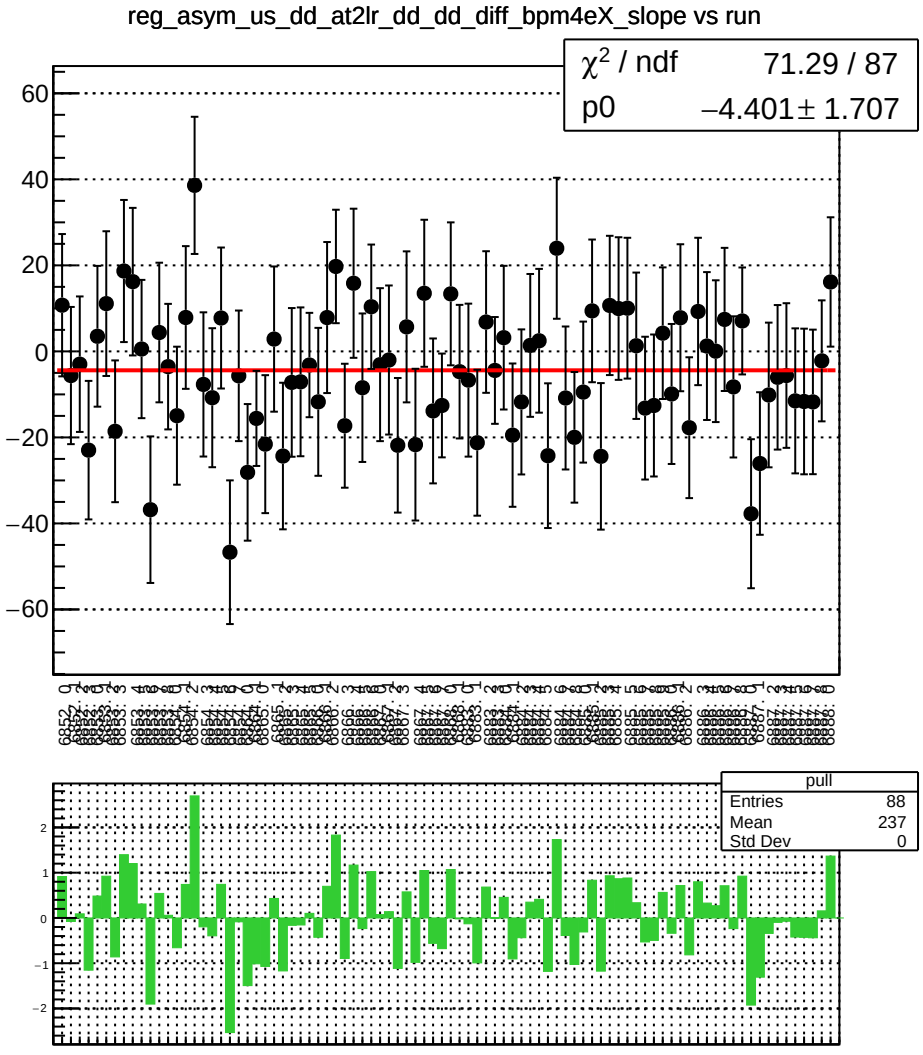

pull1D
Entries 88
Mean 0.0135
Std Dev 0.8093

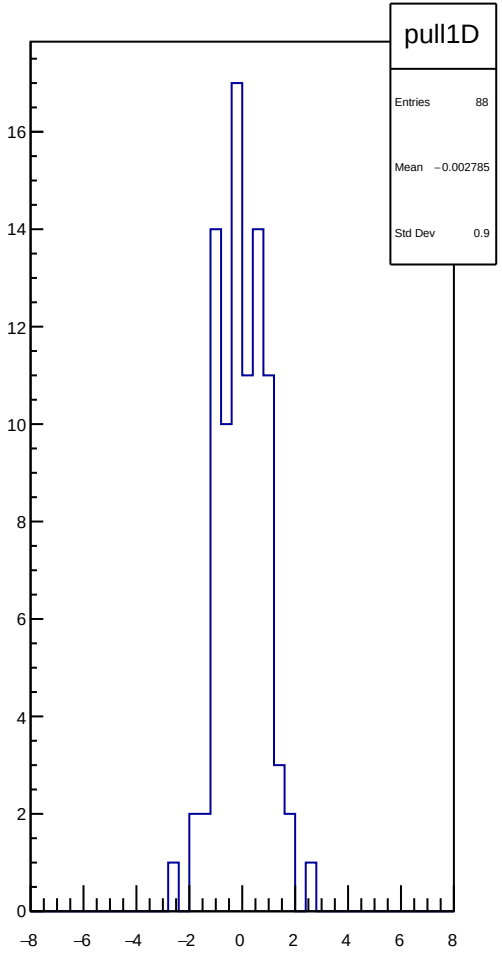

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 73.44 / 87
p0 −15.88 ± 0.1094
pull
Entries 88
Mean −147.1
Std Dev 0

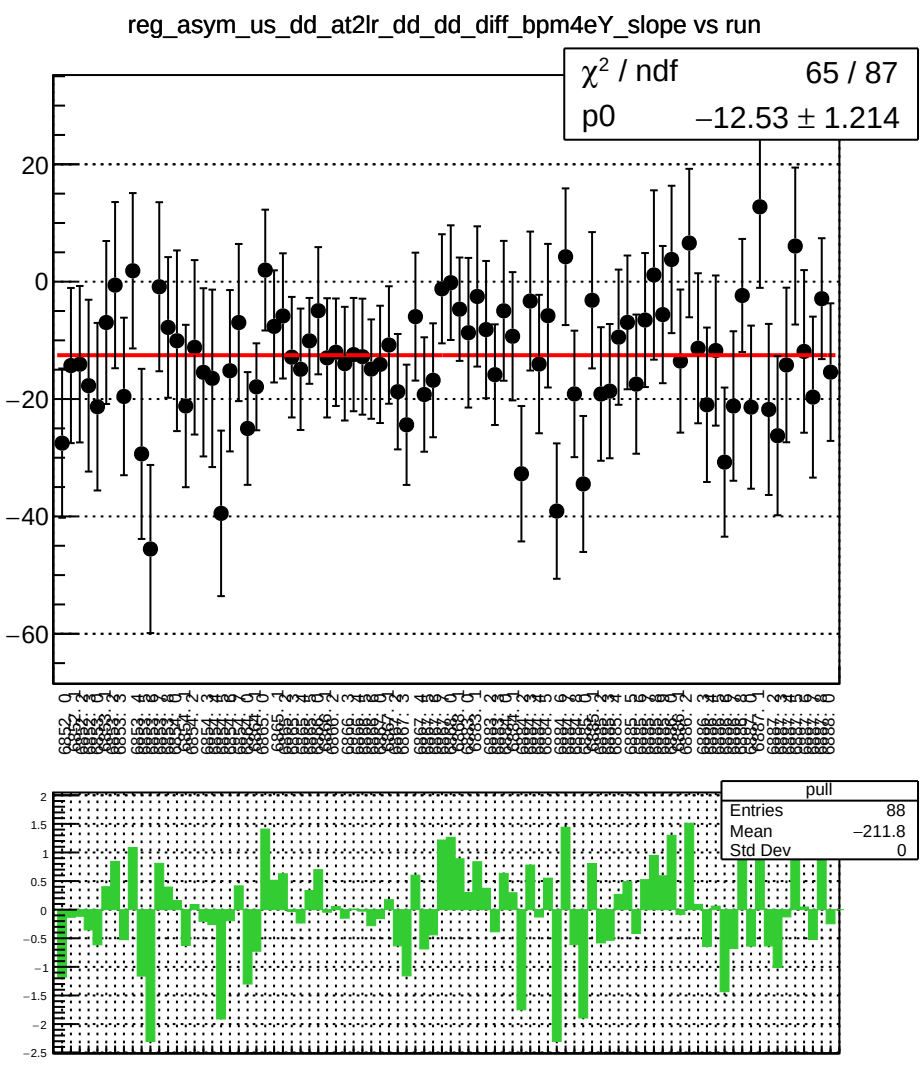

pull1D
Entries 88
Mean −0.04336
Std Dev 0.9125

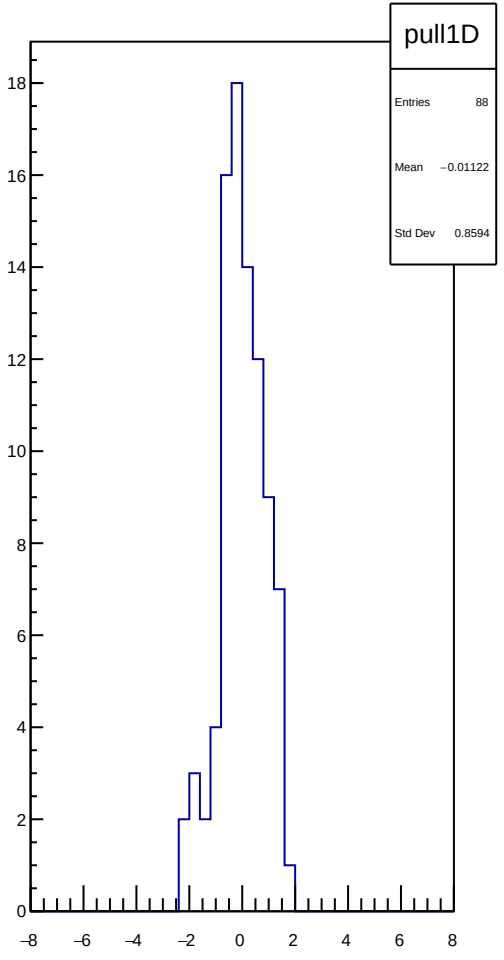

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 73.87 / 87
p0 28.97 ± 1.788
pull
Entries 88
Mean −20.58
Std Dev 0
pull1D
Entries 88
Mean 0.003366
Std Dev 0.9162

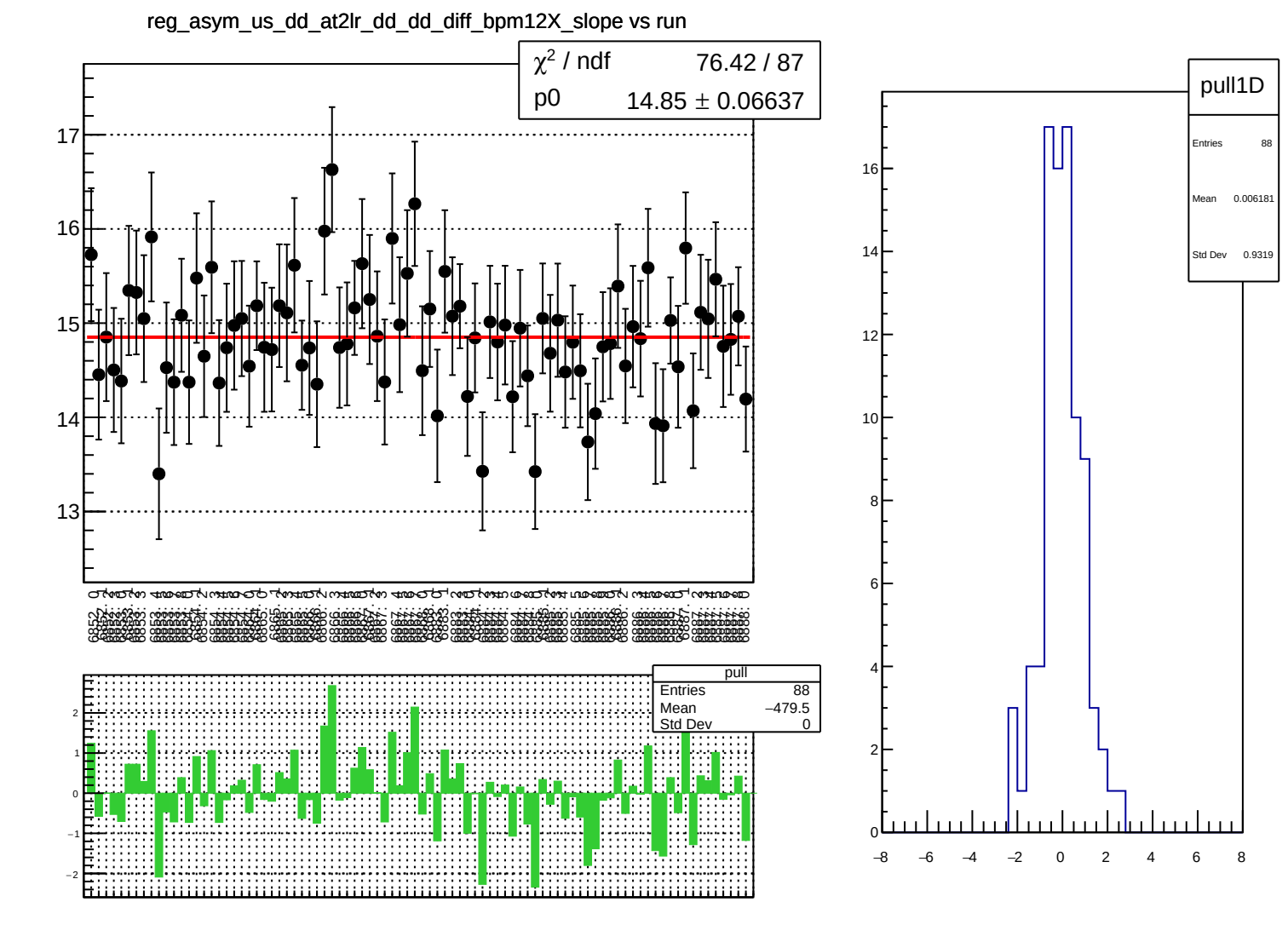

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.76 / 87
p0 2.822 ± 0.9342
pull
Entries 88
Mean −75.06
Std Dev 0
pull1D
Entries 88
Mean 0.009239
Std Dev 0.8644

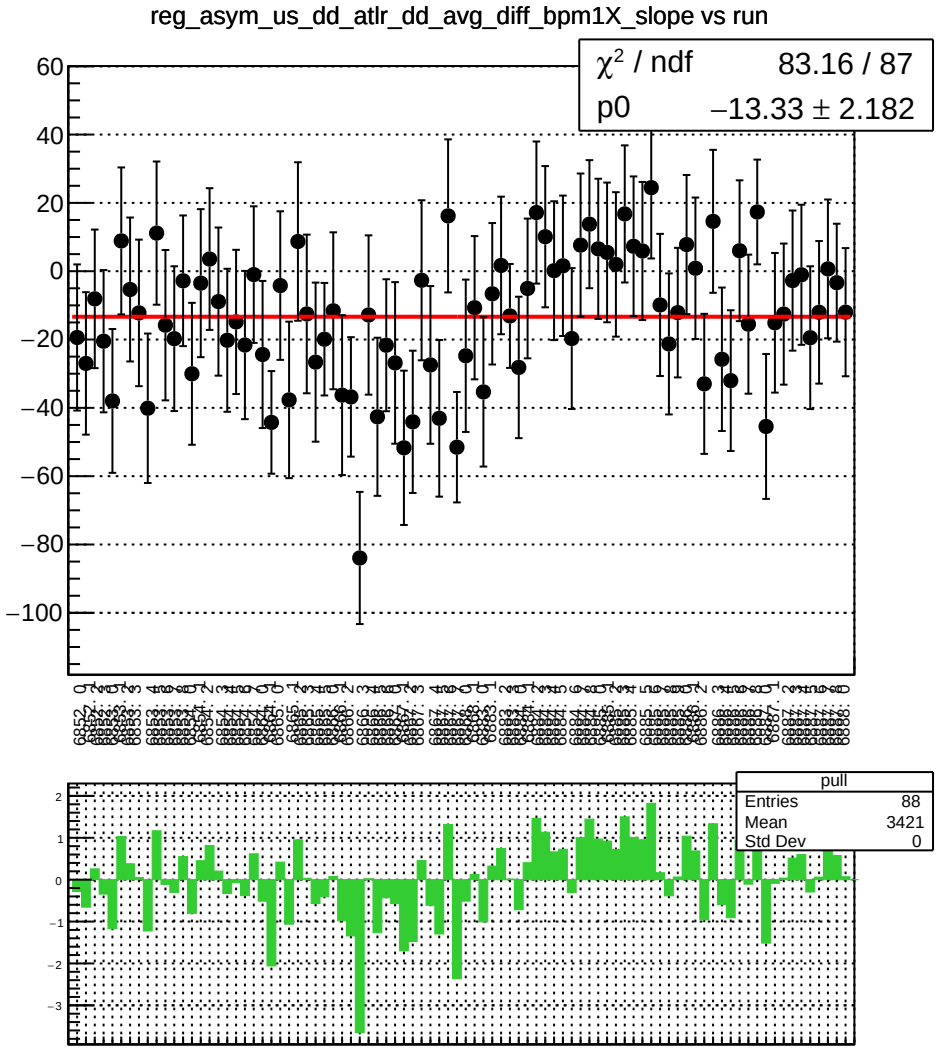

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.29 / 87
p0 −4.401 ± 1.707
pull
Entries 88
Mean 237
Std Dev 0

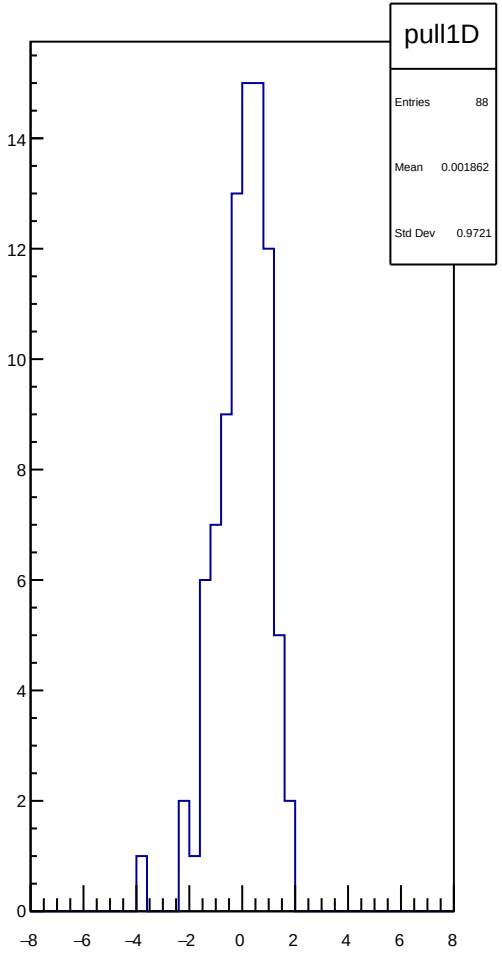

pull1D
Entries 88
Mean −0.002785
Std Dev 0.9

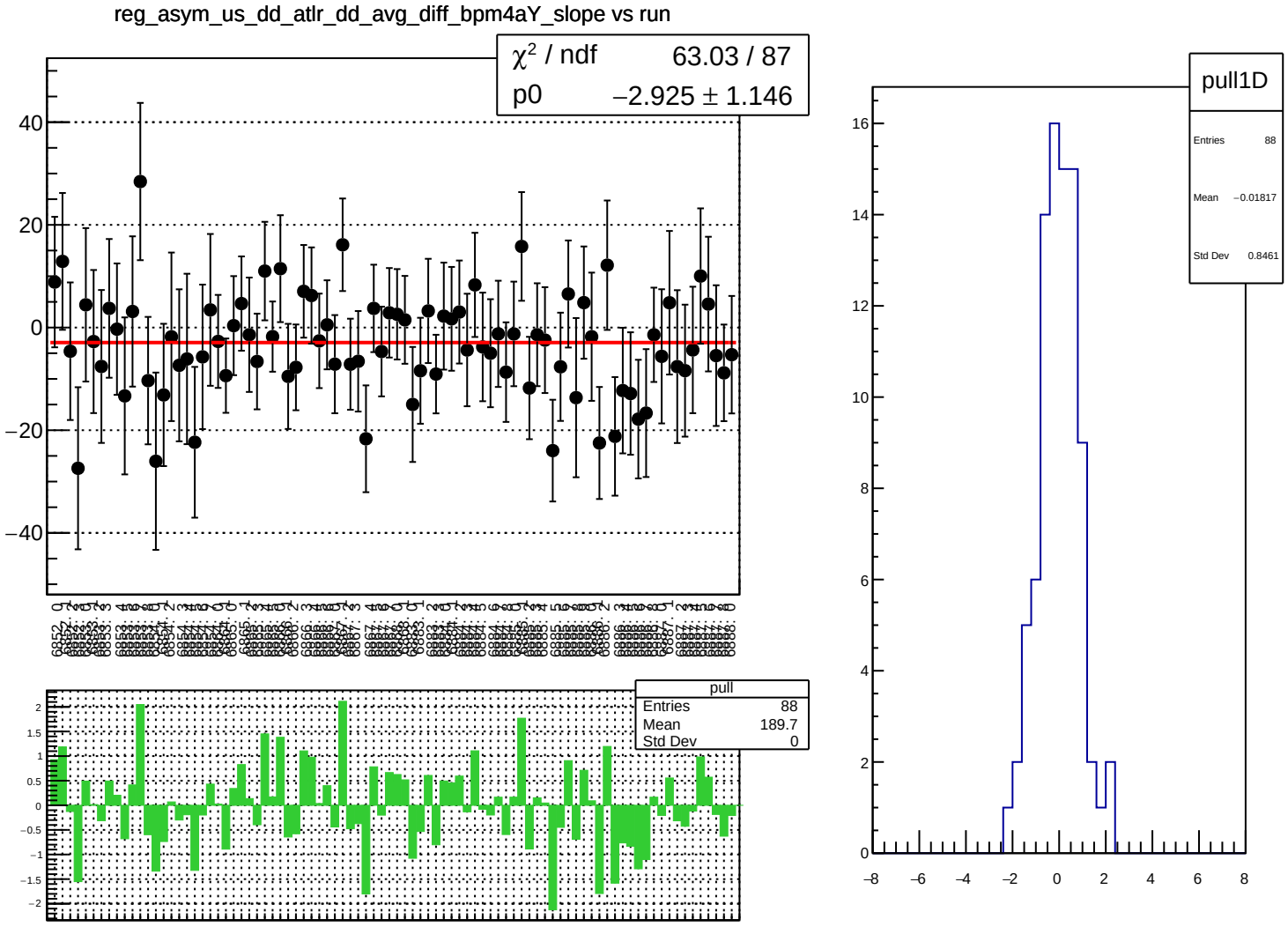

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 65 / 87
p0 −12.53 ± 1.214
20
0
−20
−40
−60
pull
Entries 88
Mean −211.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

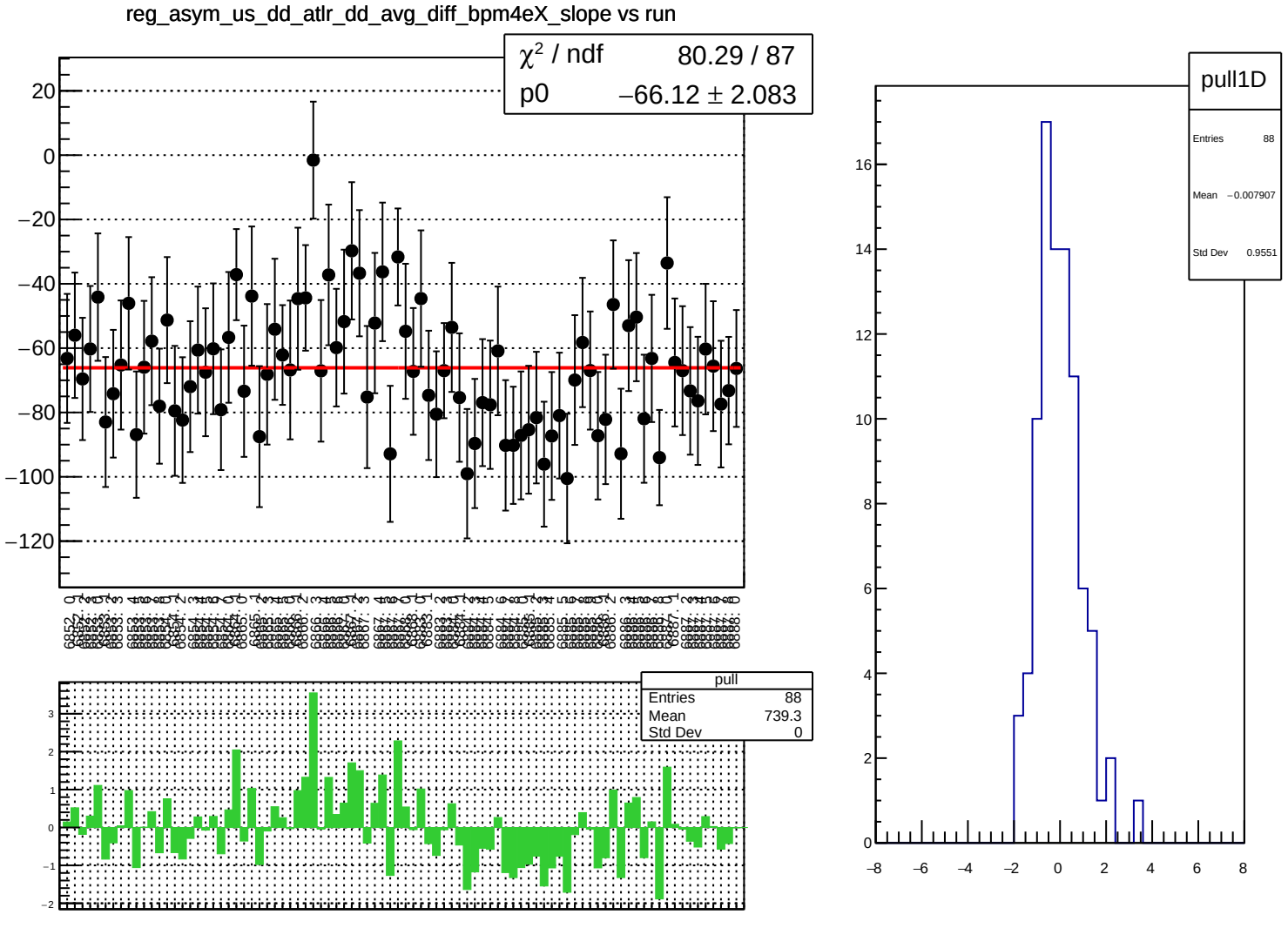

pull1D
Entries 88
Mean −0.01122
Std Dev 0.8594
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

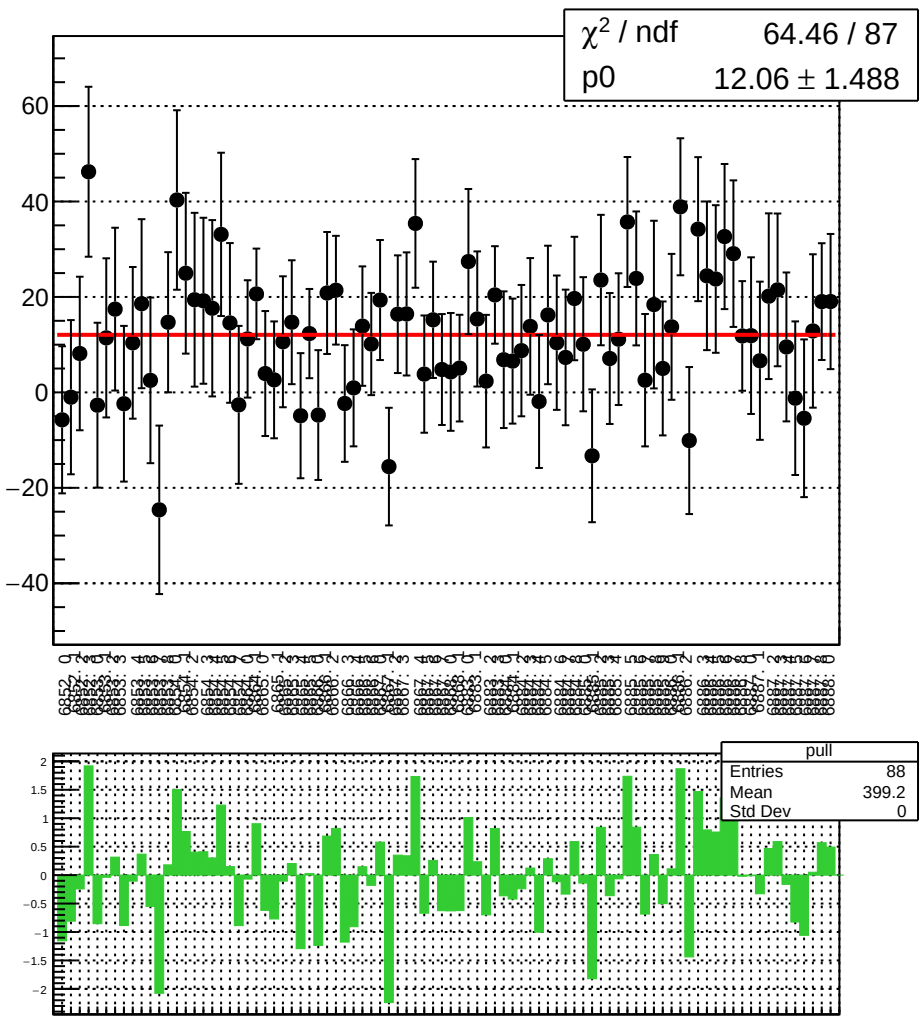

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 76.42 / 87
p0 14.85 ± 0.06637
pull
Entries 88
Mean −479.5
Std Dev 0
pull1D
Entries 88
Mean 0.006181
Std Dev 0.9319

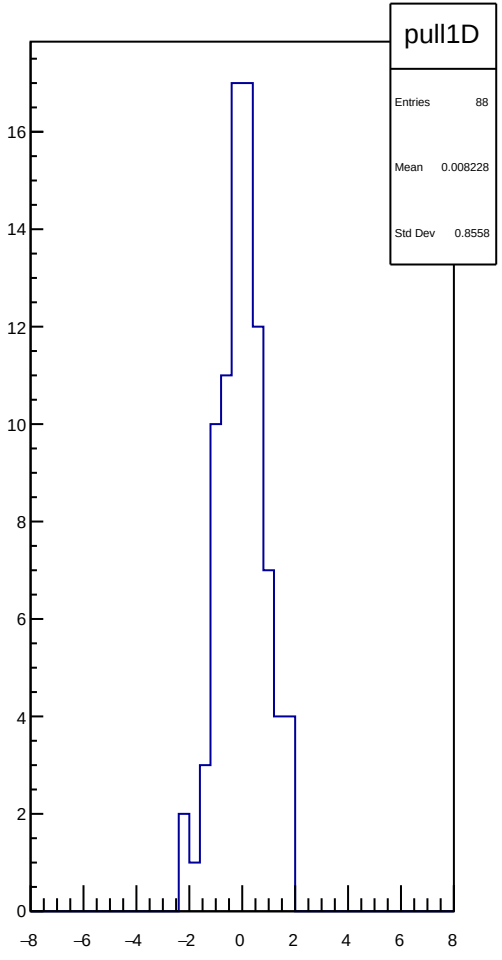

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 83.16 / 87
p0 −13.33 ± 2.182
pull
Entries 88
Mean 3421
Std Dev 0

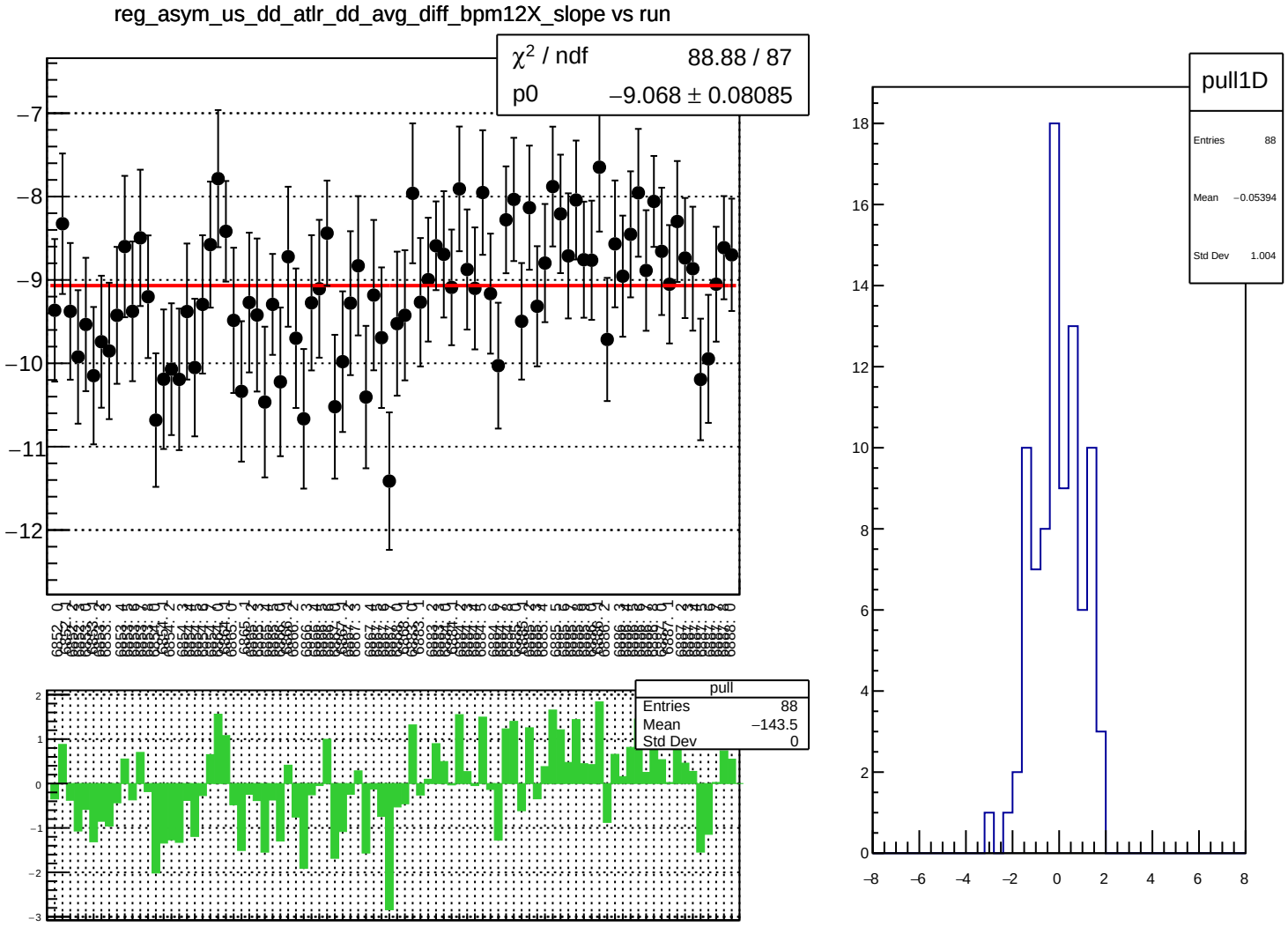

pull1D
Entries 88
Mean 0.001862
Std Dev 0.9721

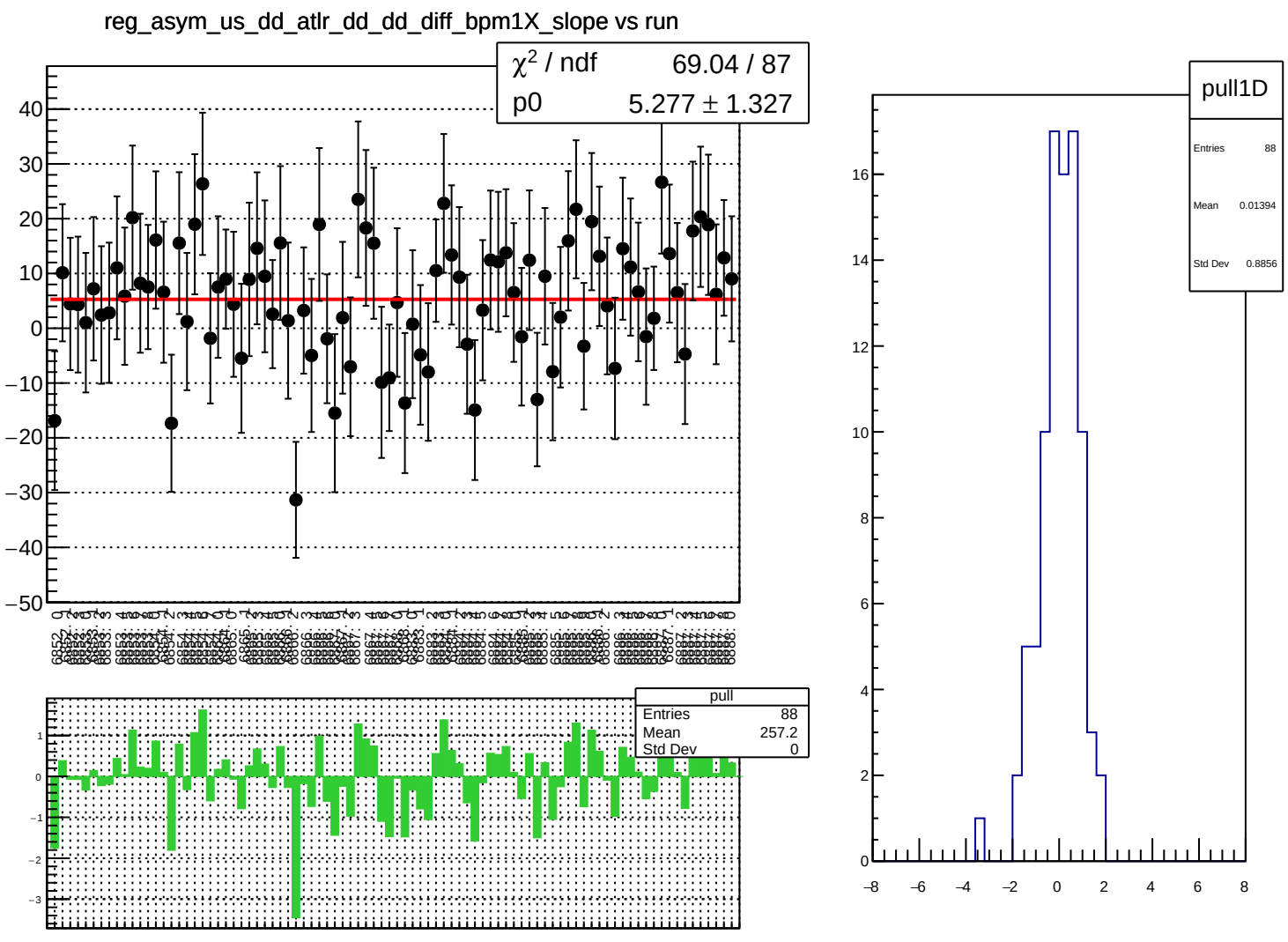

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 63.03 / 87
p0 −2.925 ± 1.146
pull
Entries 88
Mean 189.7
Std Dev 0
pull1D
Entries 88
Mean −0.01817
Std Dev 0.8461

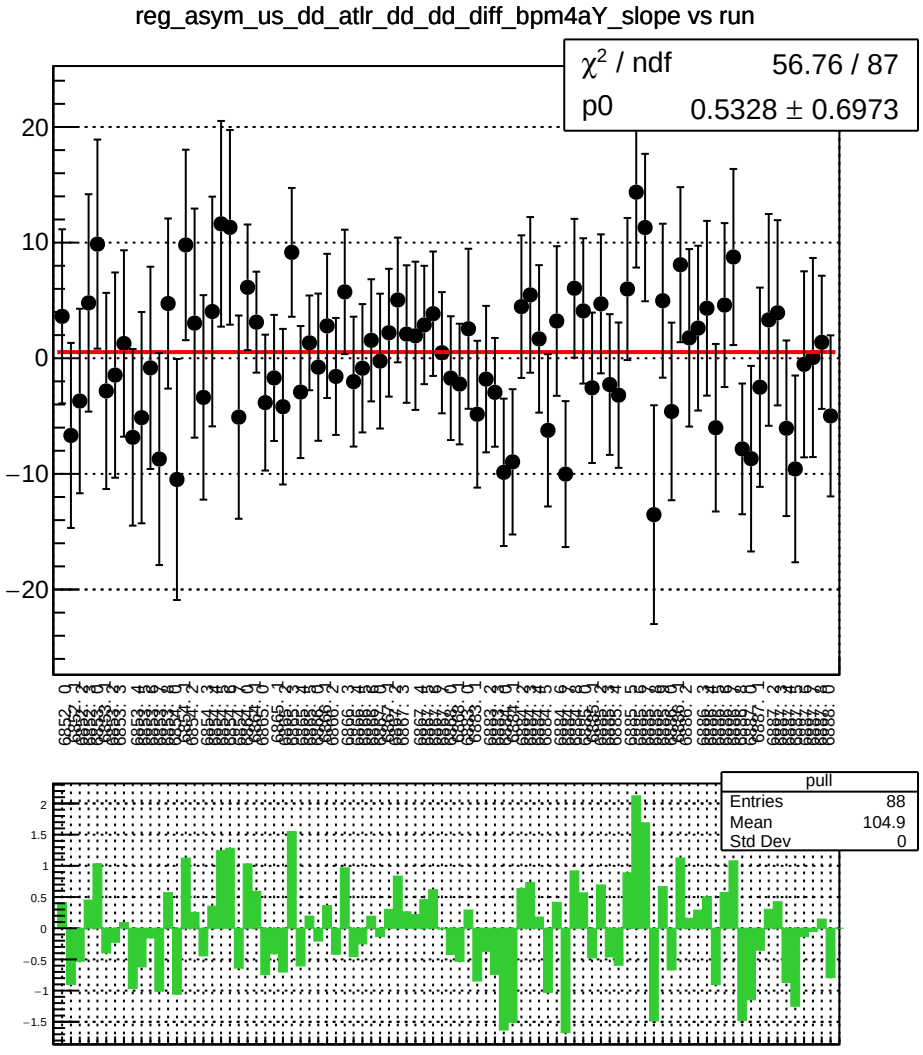

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.29 / 87
p0 −66.12 ± 2.083
pull
Entries 88
Mean 739.3
Std Dev 0
pull1D
Entries 88
Mean −0.007907
Std Dev 0.9551

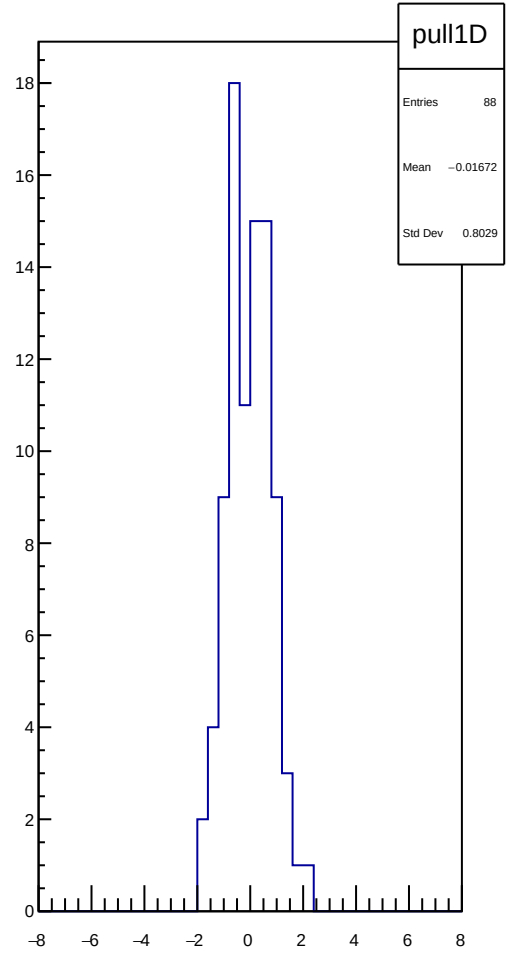

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 64.46 / 87
p0 12.06 ± 1.488
pull
Entries 88
Mean 399.2
Std Dev 0

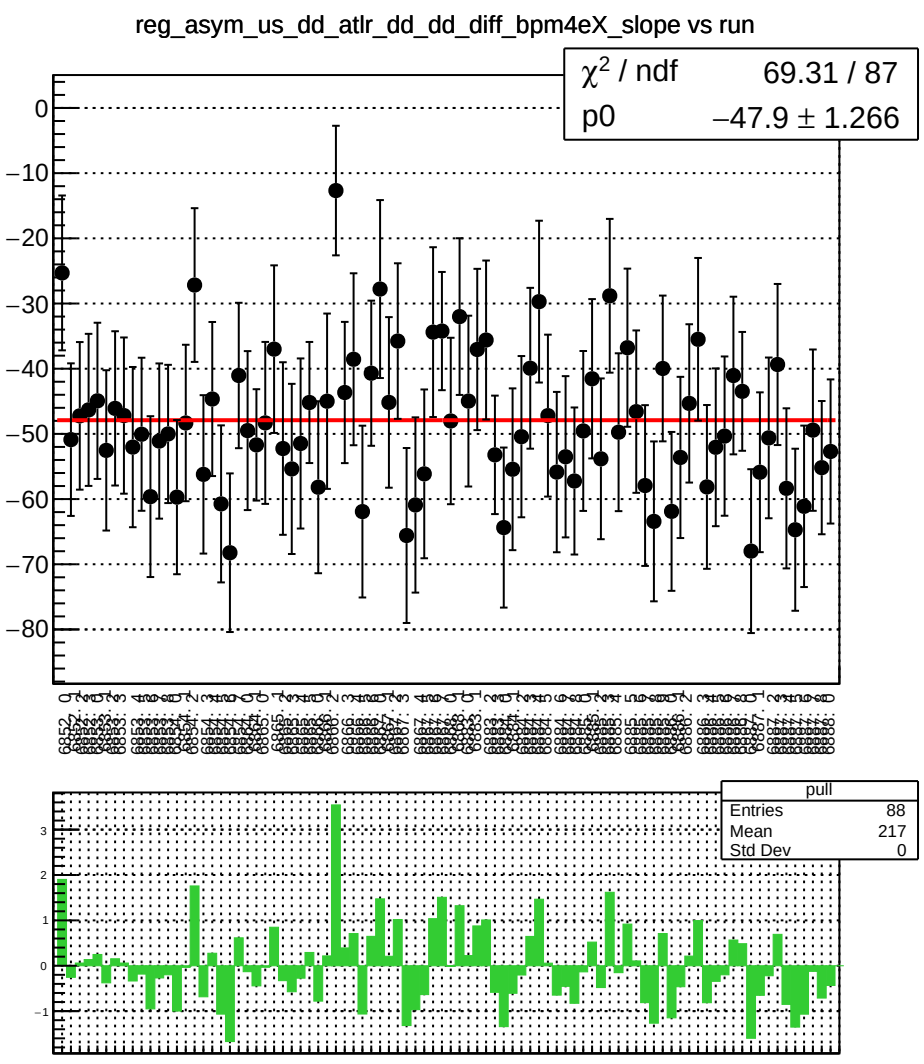

pull1D
Entries 88
Mean 0.008228
Std Dev 0.8558

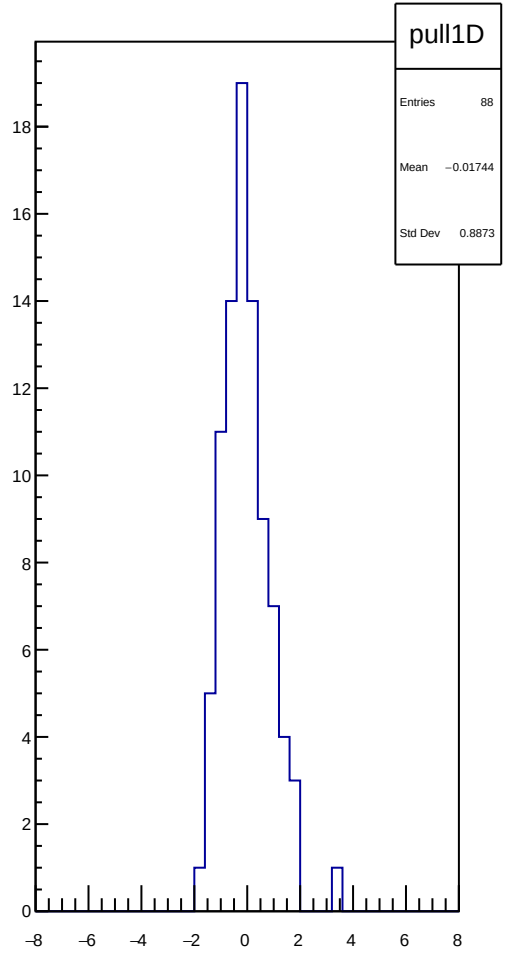

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 88.88 / 87
p0 −9.068 ± 0.08085
pull
Entries 88
Mean −143.5
Std Dev 0
pull1D
Entries 88
Mean −0.05394
Std Dev 1.004

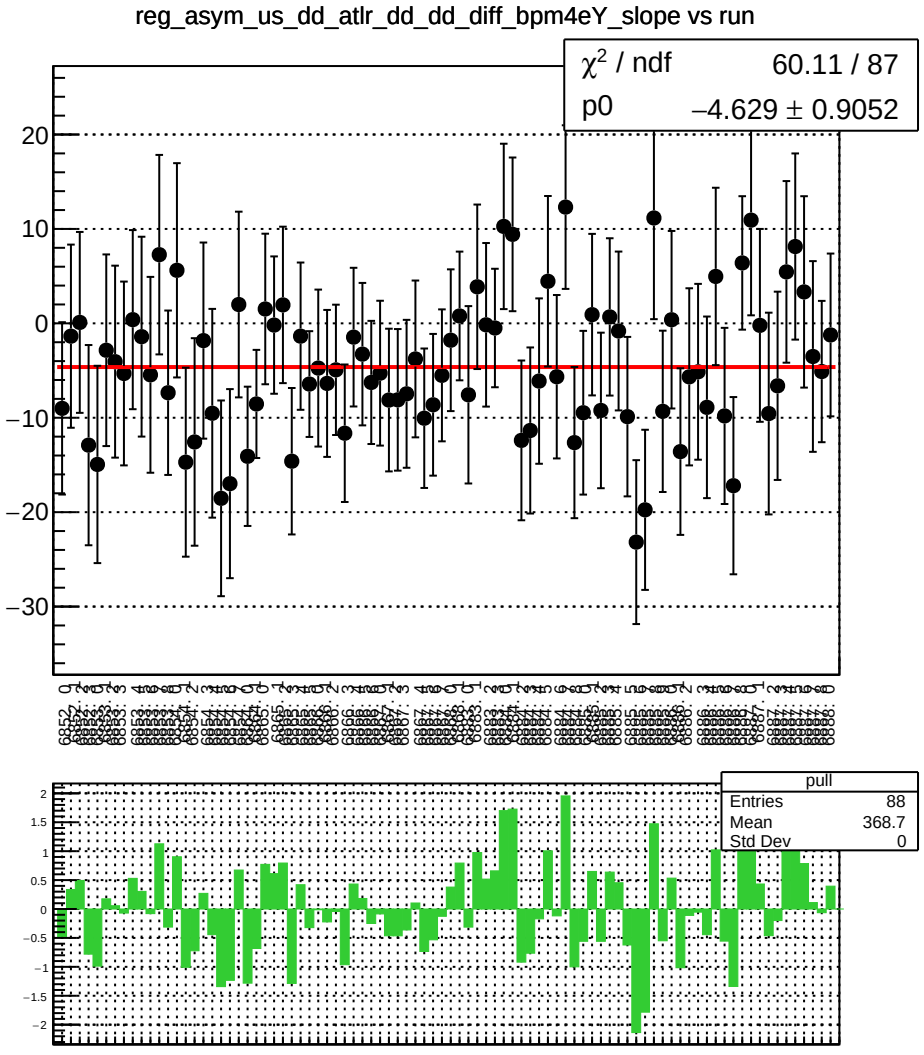

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 69.04 / 87
p0 5.277 ± 1.327
pull
Entries 88
Mean 257.2
Std Dev 0
pull1D
Entries 88
Mean 0.01394
Std Dev 0.8856

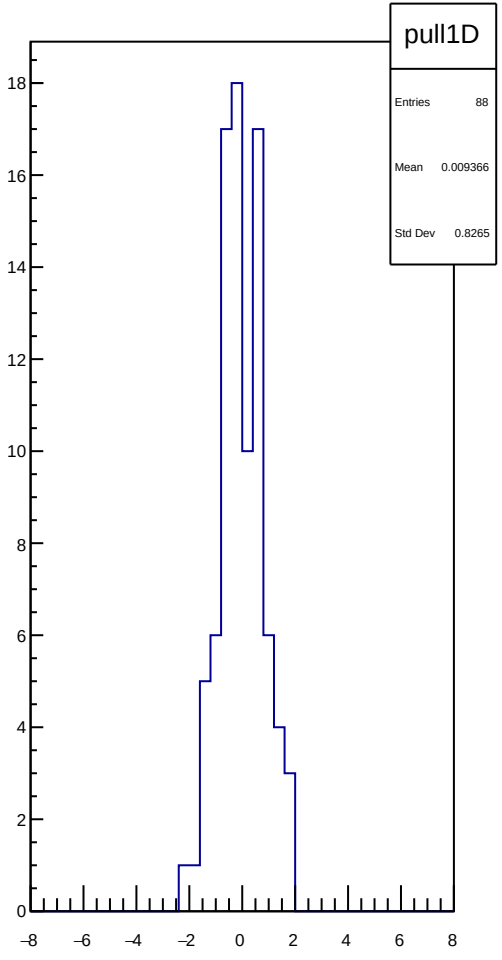

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.76 / 87
p0 0.5328 ± 0.6973
pull
Entries 88
Mean 104.9
Std Dev 0

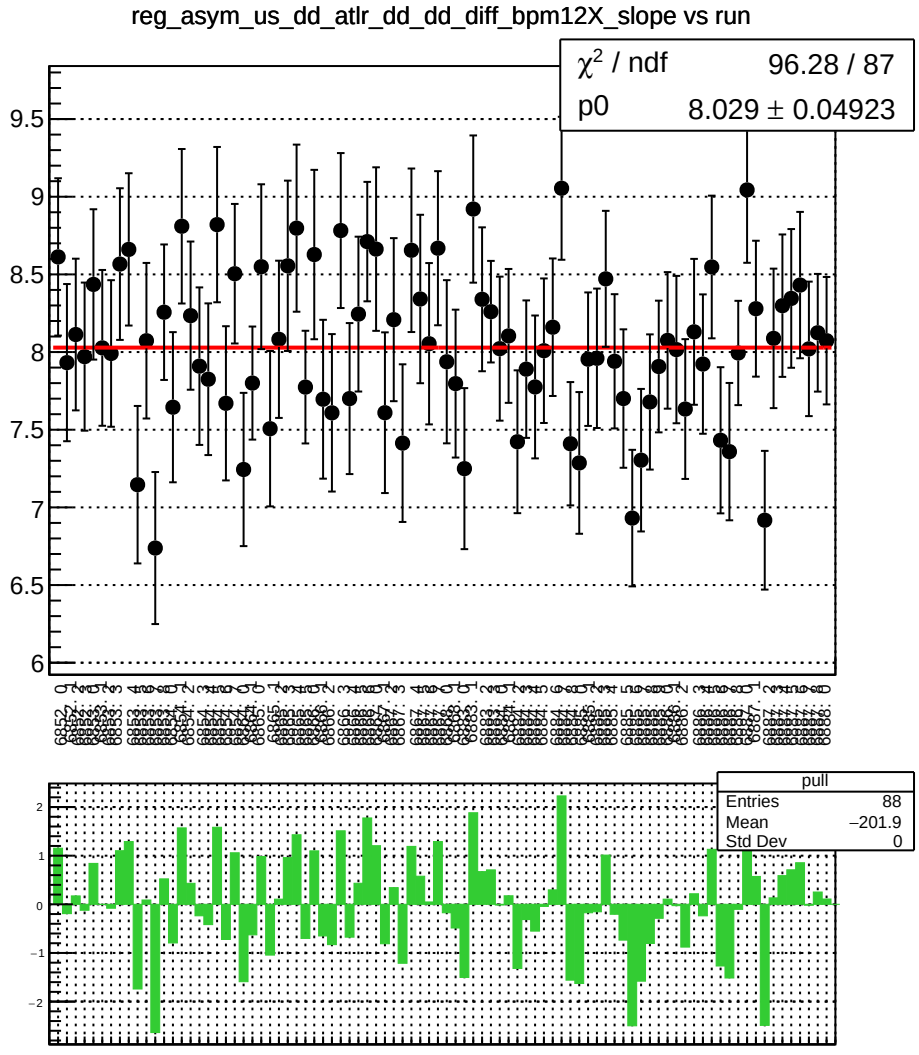

pull1D
Entries 88
Mean −0.01672
Std Dev 0.8029

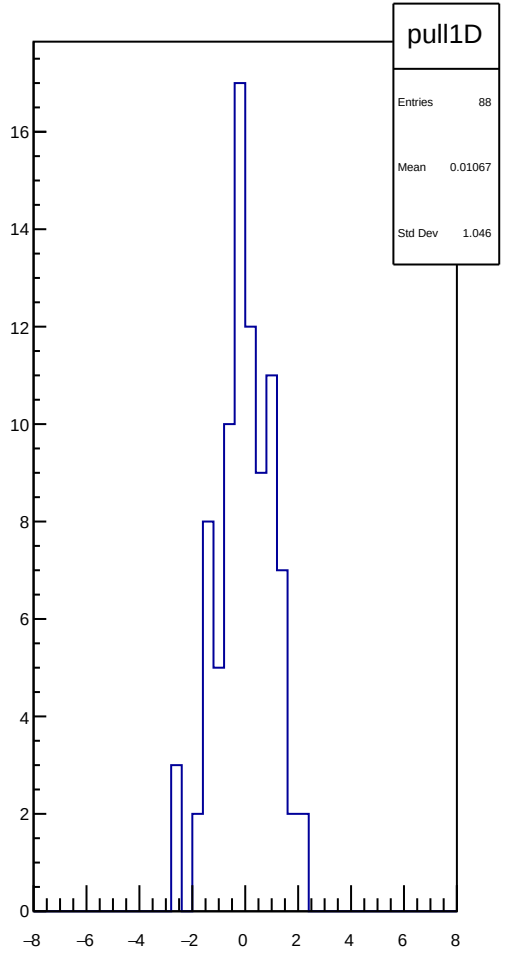

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.31 / 87
p0 −47.9 ± 1.266
pull
Entries 88
Mean 217
Std Dev 0

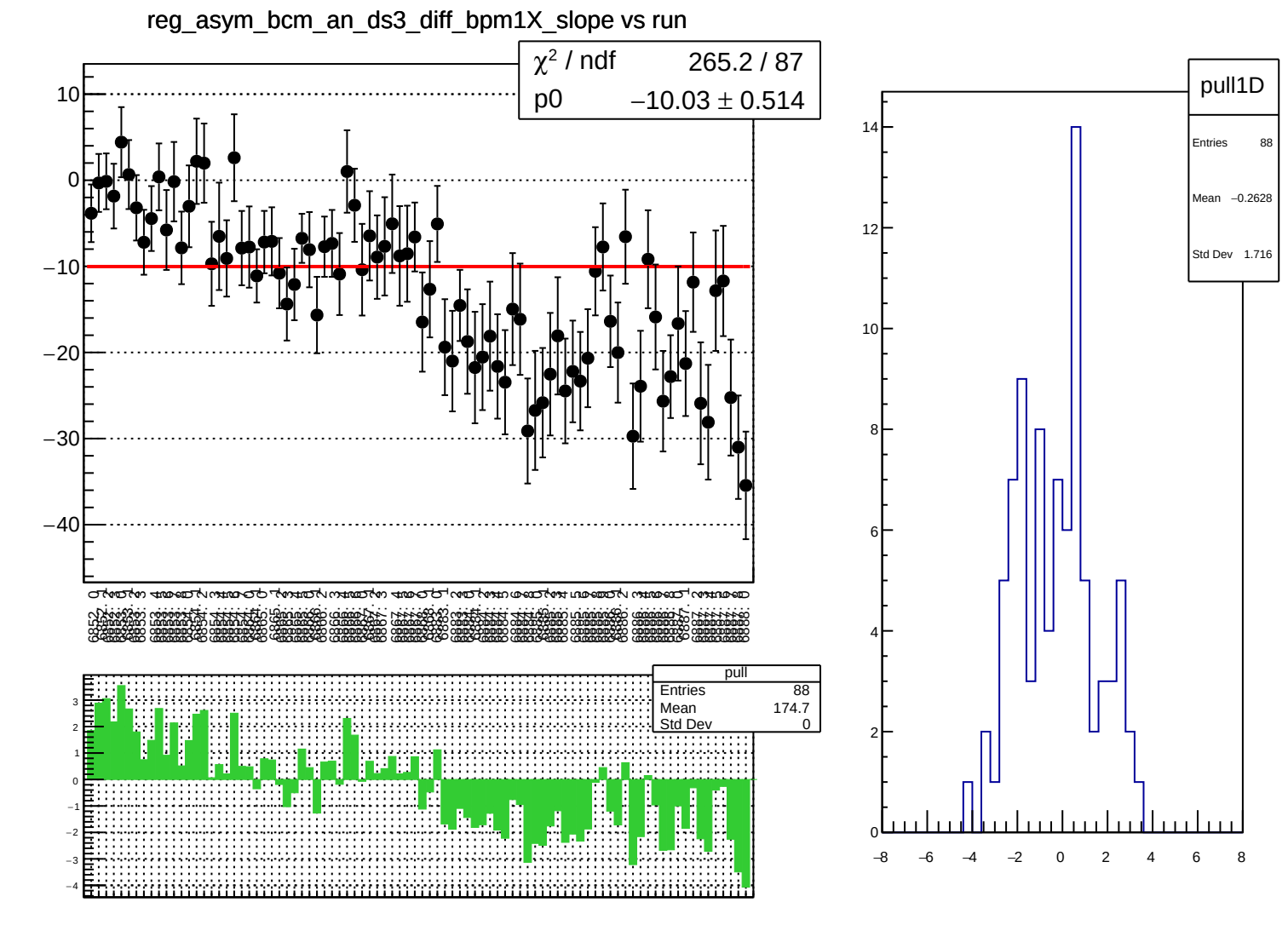

pull1D
Entries 88
Mean −0.01744
Std Dev 0.8873

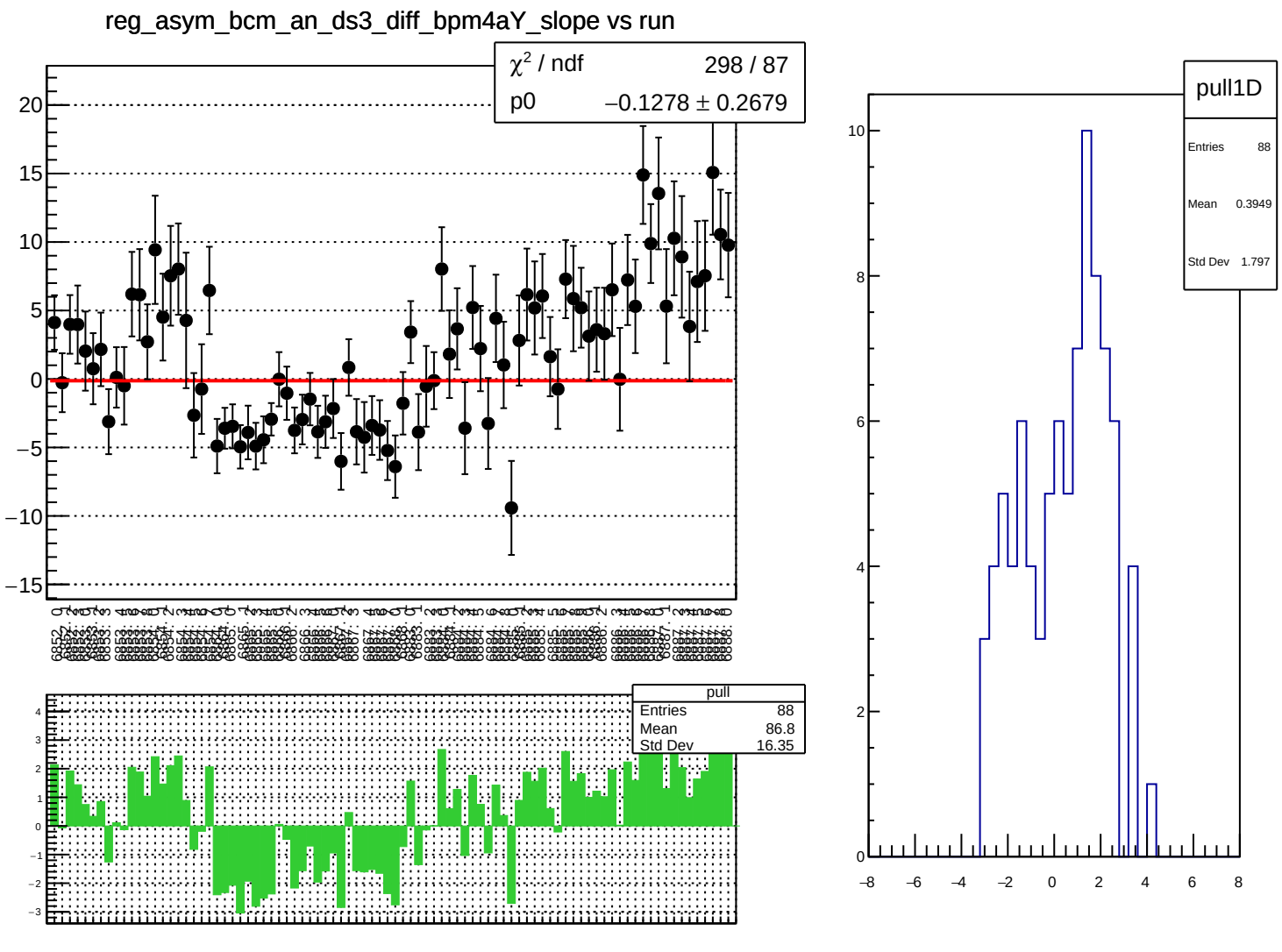

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.11 / 87
p0 −4.629 ± 0.9052
pull
Entries 88
Mean 368.7
Std Dev 0

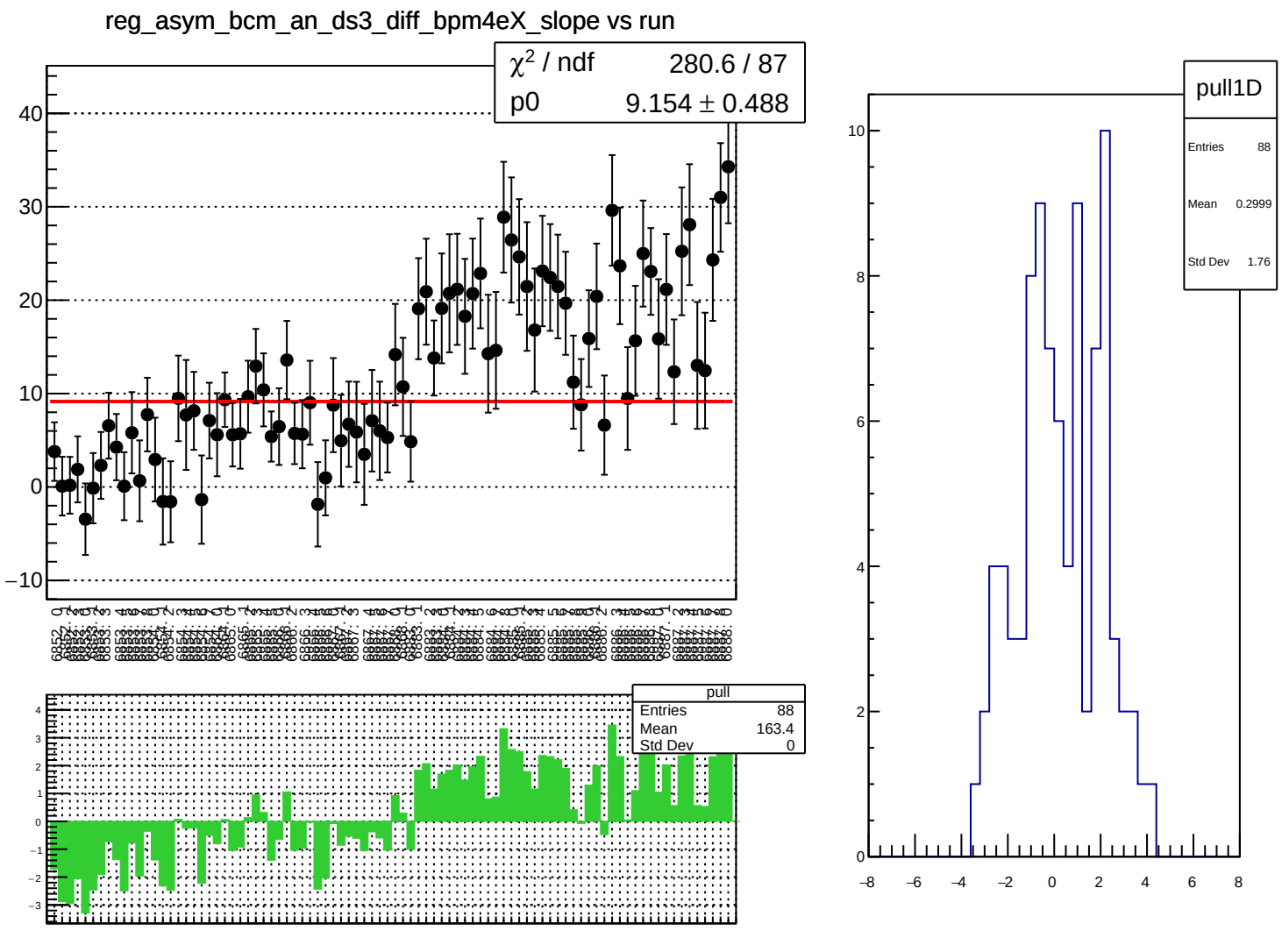

pull1D
Entries 88
Mean 0.009366
Std Dev 0.8265

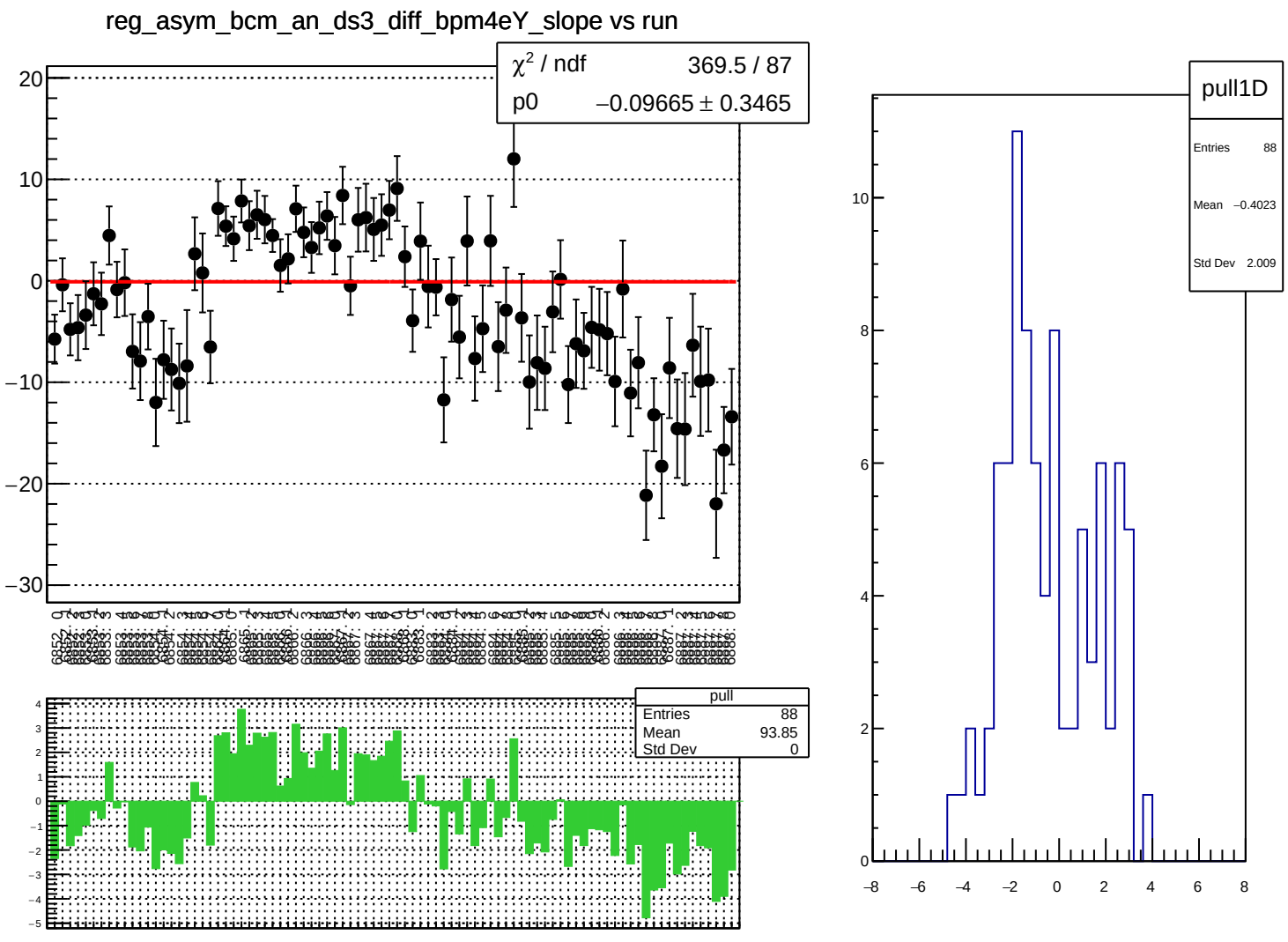

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 96.28 / 87
p0 8.029 ± 0.04923
pull
Entries 88
Mean −201.9
Std Dev 0

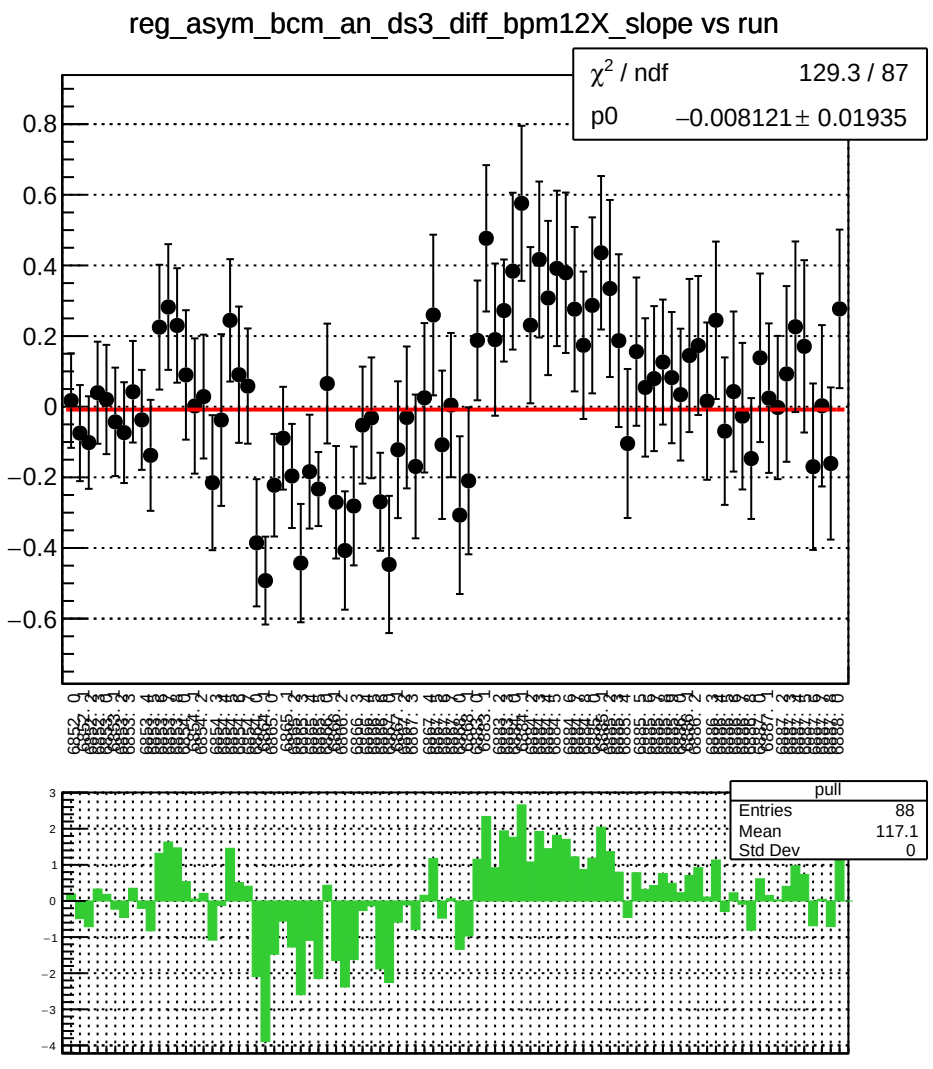

pull1D
Entries 88
Mean 0.01067
Std Dev 1.046

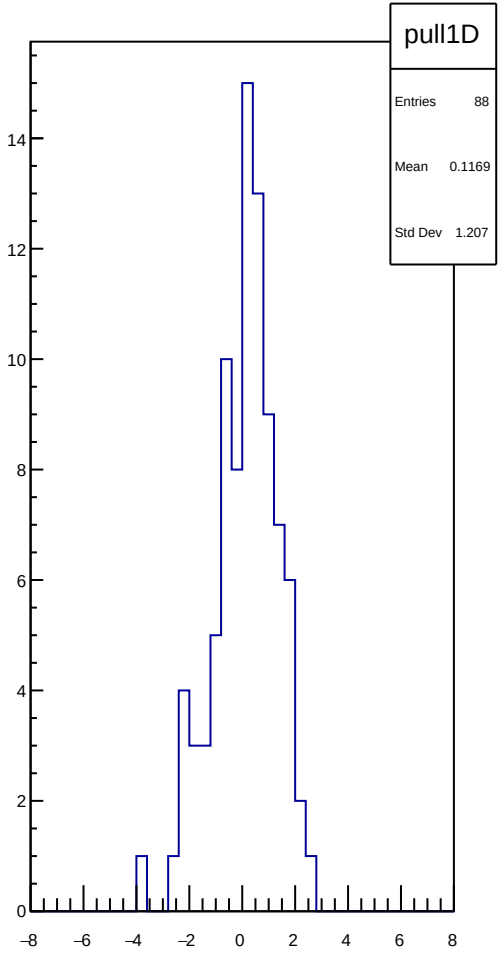

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 265.2 / 87
p0 −10.03 ± 0.514
pull
Entries 88
Mean 174.7
Std Dev 0
pull1D
Entries 88
Mean −0.2628
Std Dev 1.716

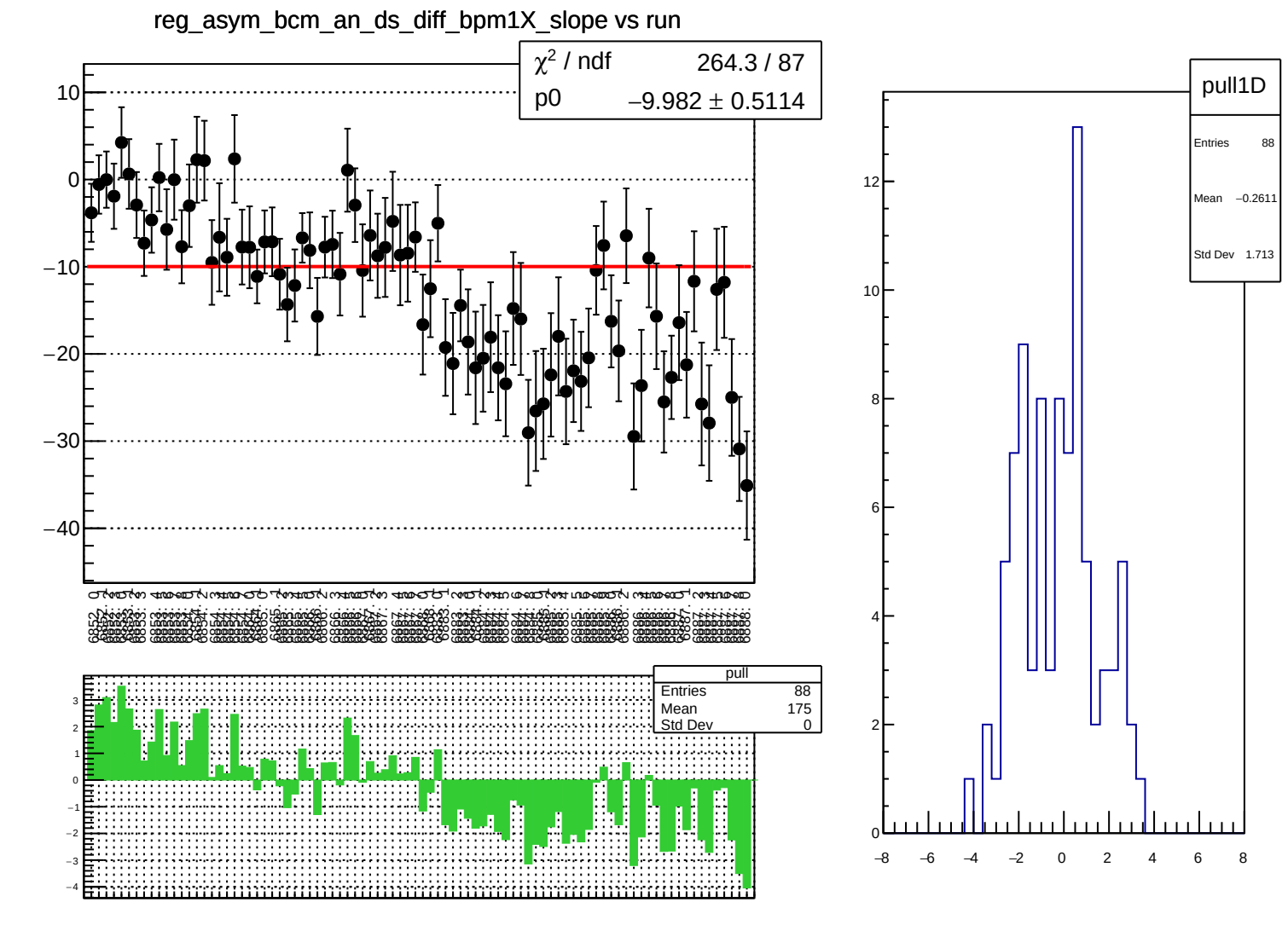

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 298 / 87
p0 −0.1278 ± 0.2679
pull
Entries 88
Mean 86.8
Std Dev 16.35
pull1D
Entries 88
Mean 0.3949
Std Dev 1.797

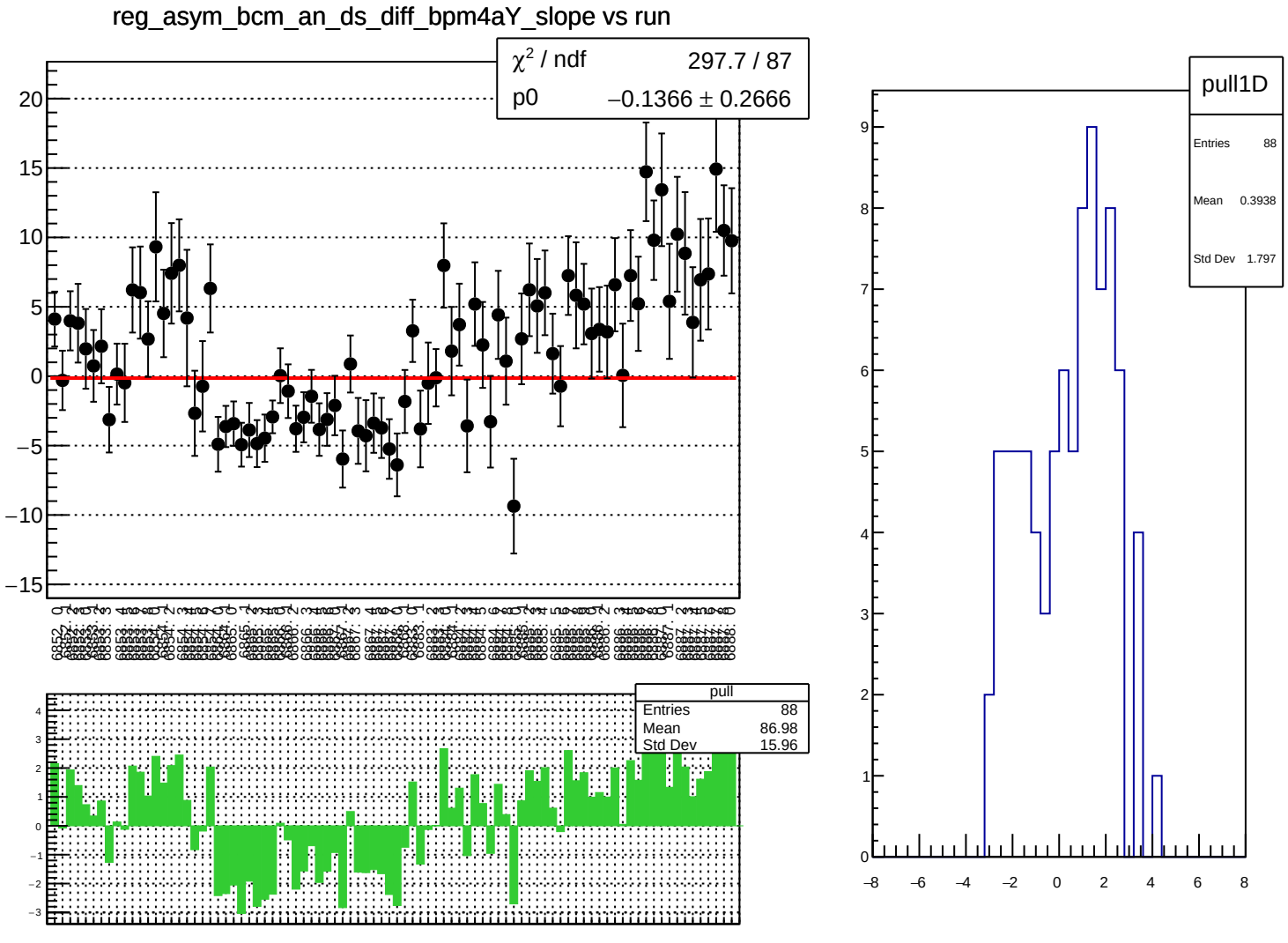

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 280.6 / 87
p0 9.154 ± 0.488
pull
Entries 88
Mean 163.4
Std Dev 0
pull1D
Entries 88
Mean 0.2999
Std Dev 1.76

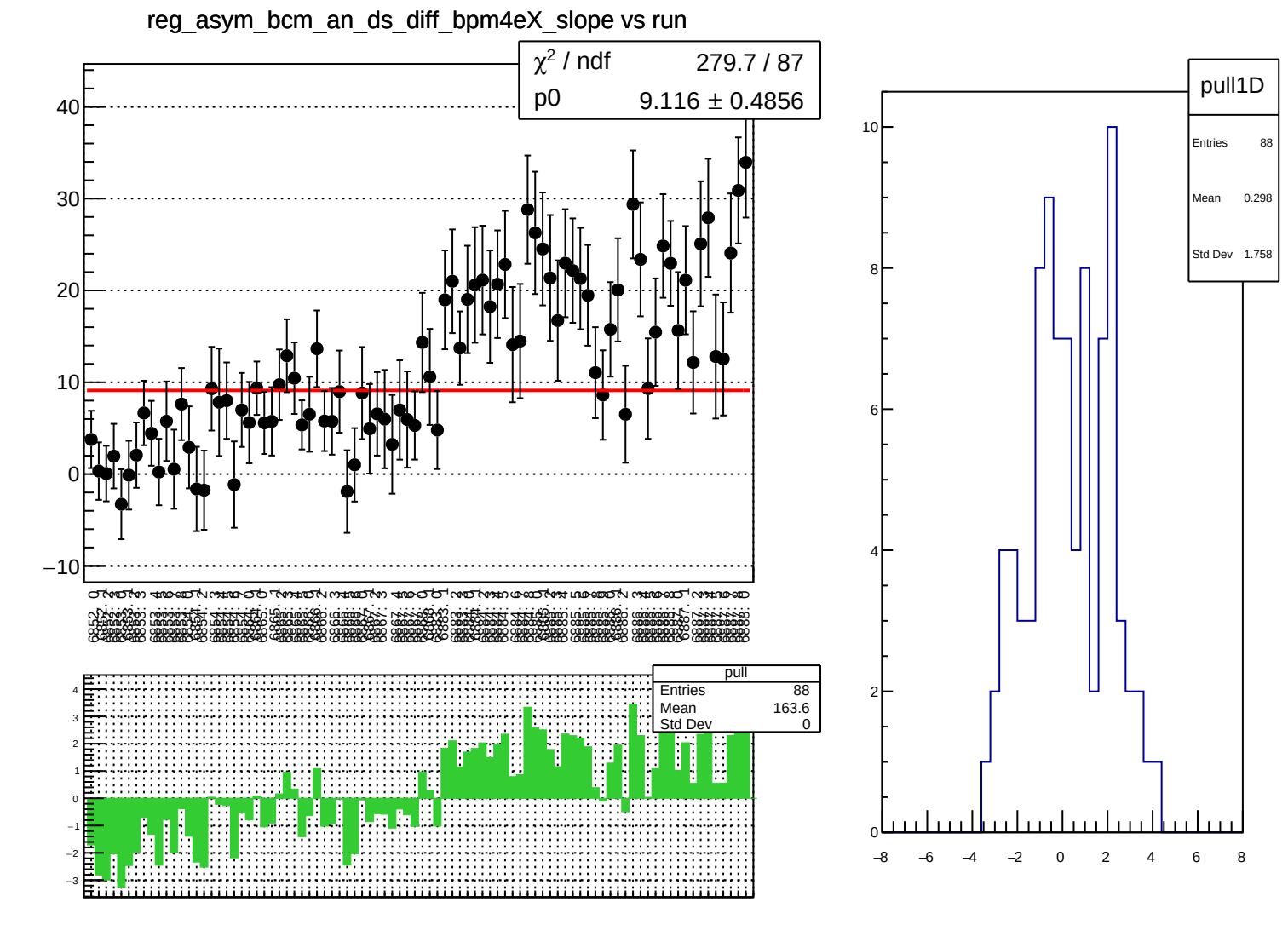

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 369.5 / 87
p0 −0.09665 ± 0.3465
pull
Entries 88
Mean 93.85
Std Dev 0
pull1D
Entries 88
Mean −0.4023
Std Dev 2.009

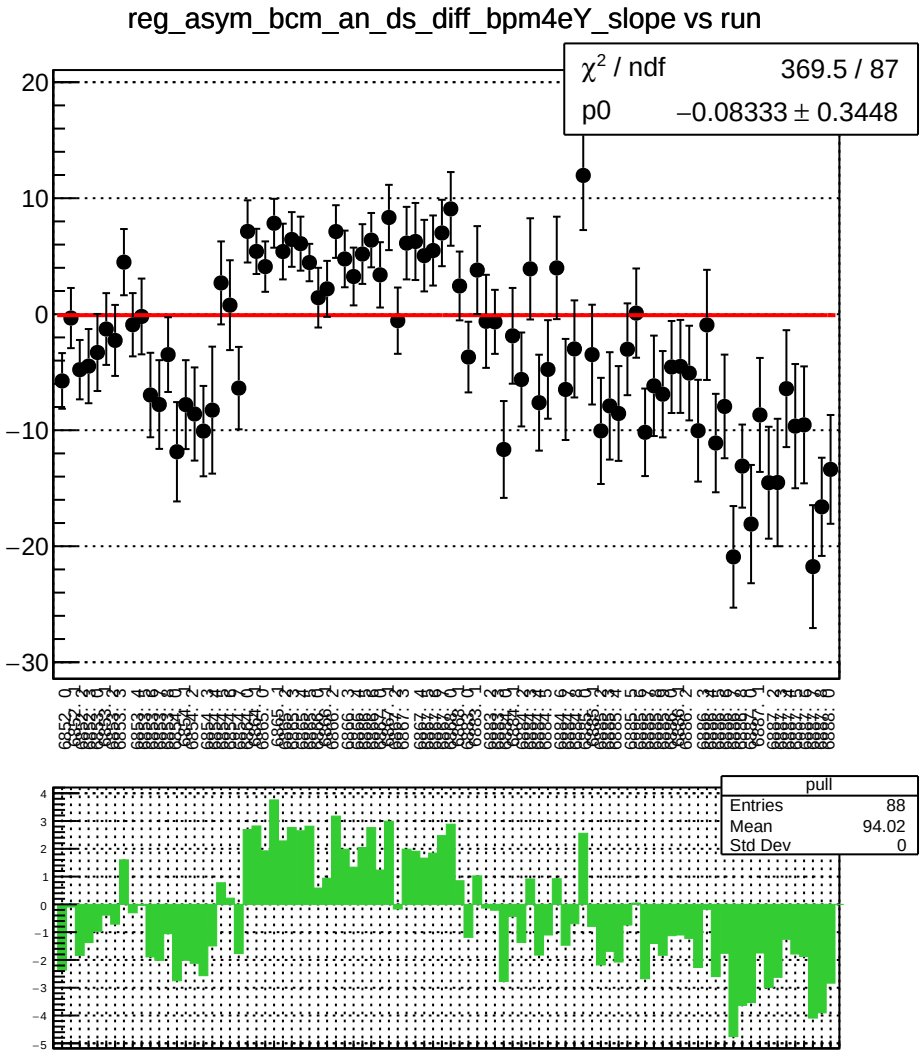

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 129.3 / 87
p0 −0.008121 ± 0.01935
pull
Entries 88
Mean 117.1
Std Dev 0

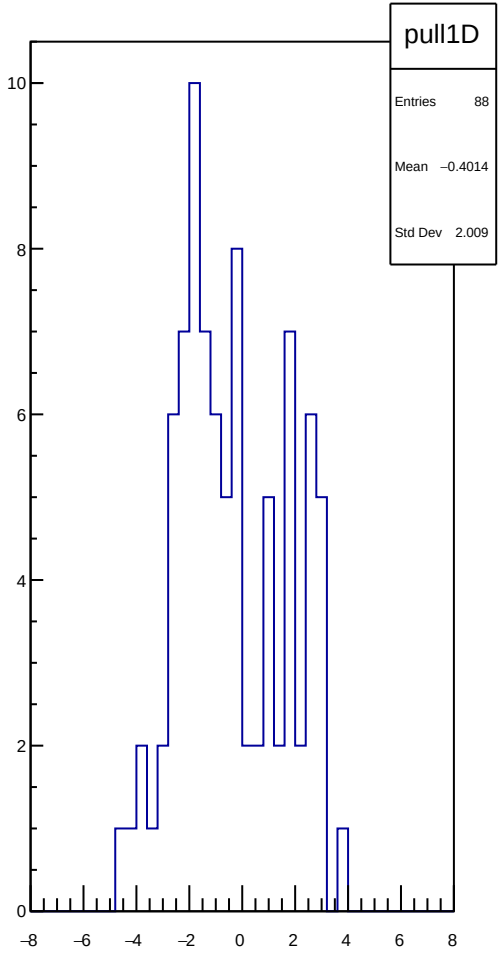

pull1D
Entries 88
Mean 0.1169
Std Dev 1.207

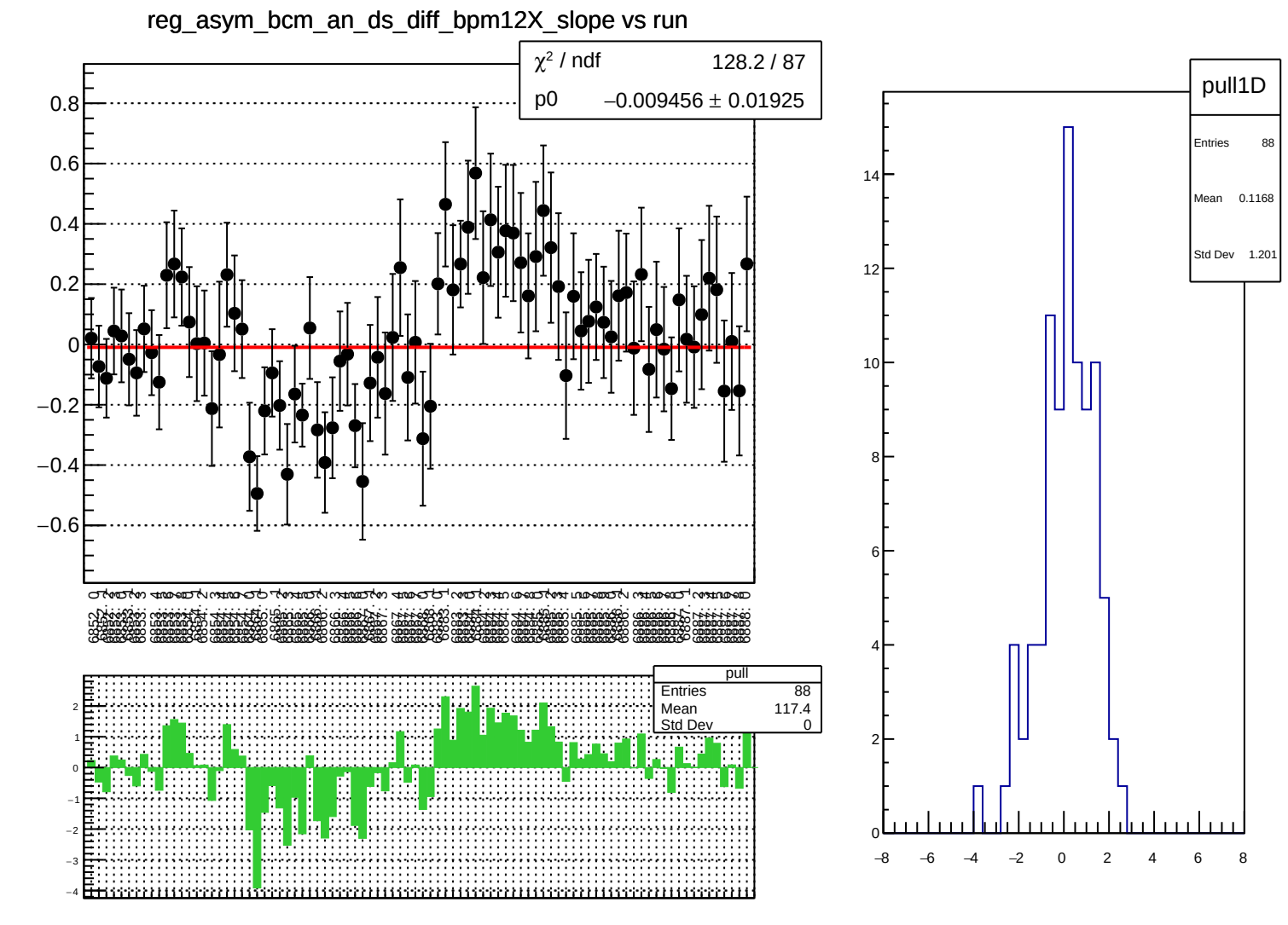

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 264.3 / 87
p0 −9.982 ± 0.5114
pull
Entries 88
Mean 175
Std Dev 0
pull1D
Entries 88
Mean −0.2611
Std Dev 1.713

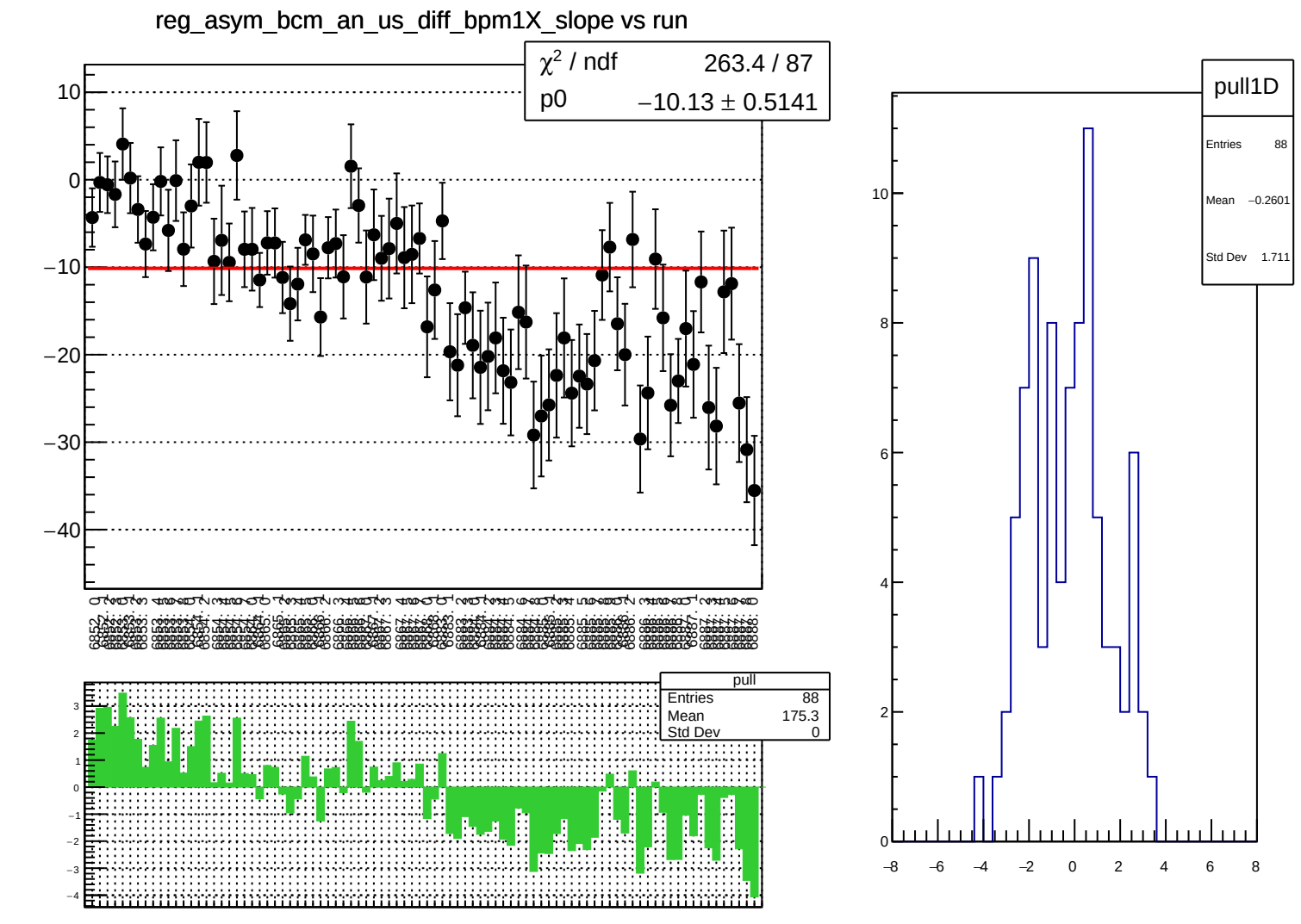

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 297.7 / 87
p0 −0.1366 ± 0.2666
pull
Entries 88
Mean 86.98
Std Dev 15.96
pull1D
Entries 88
Mean 0.3938
Std Dev 1.797

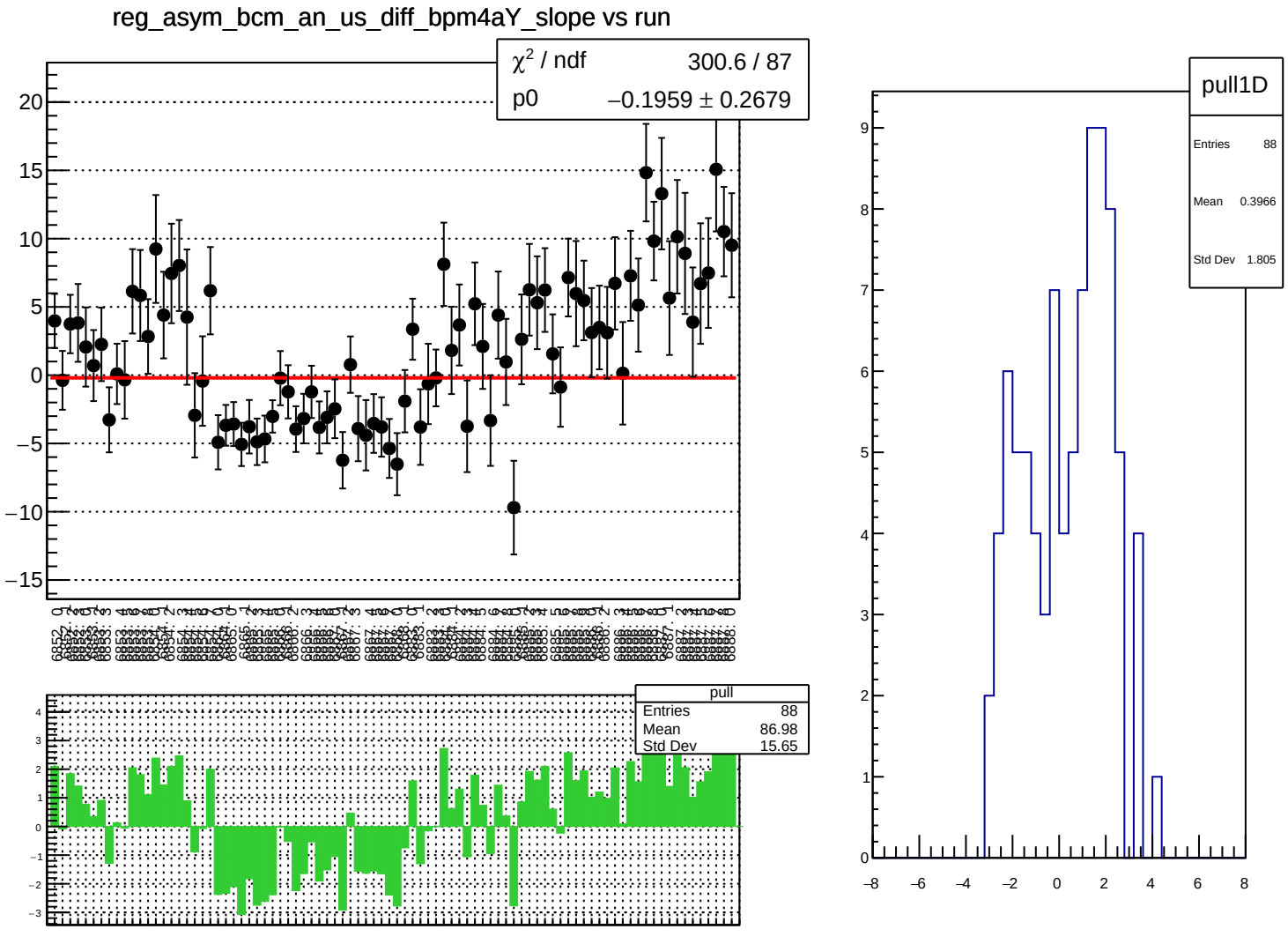

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 279.7 / 87
p0 9.116 ± 0.4856
pull
Entries 88
Mean 163.6
Std Dev 0
pull1D
Entries 88
Mean 0.298
Std Dev 1.758

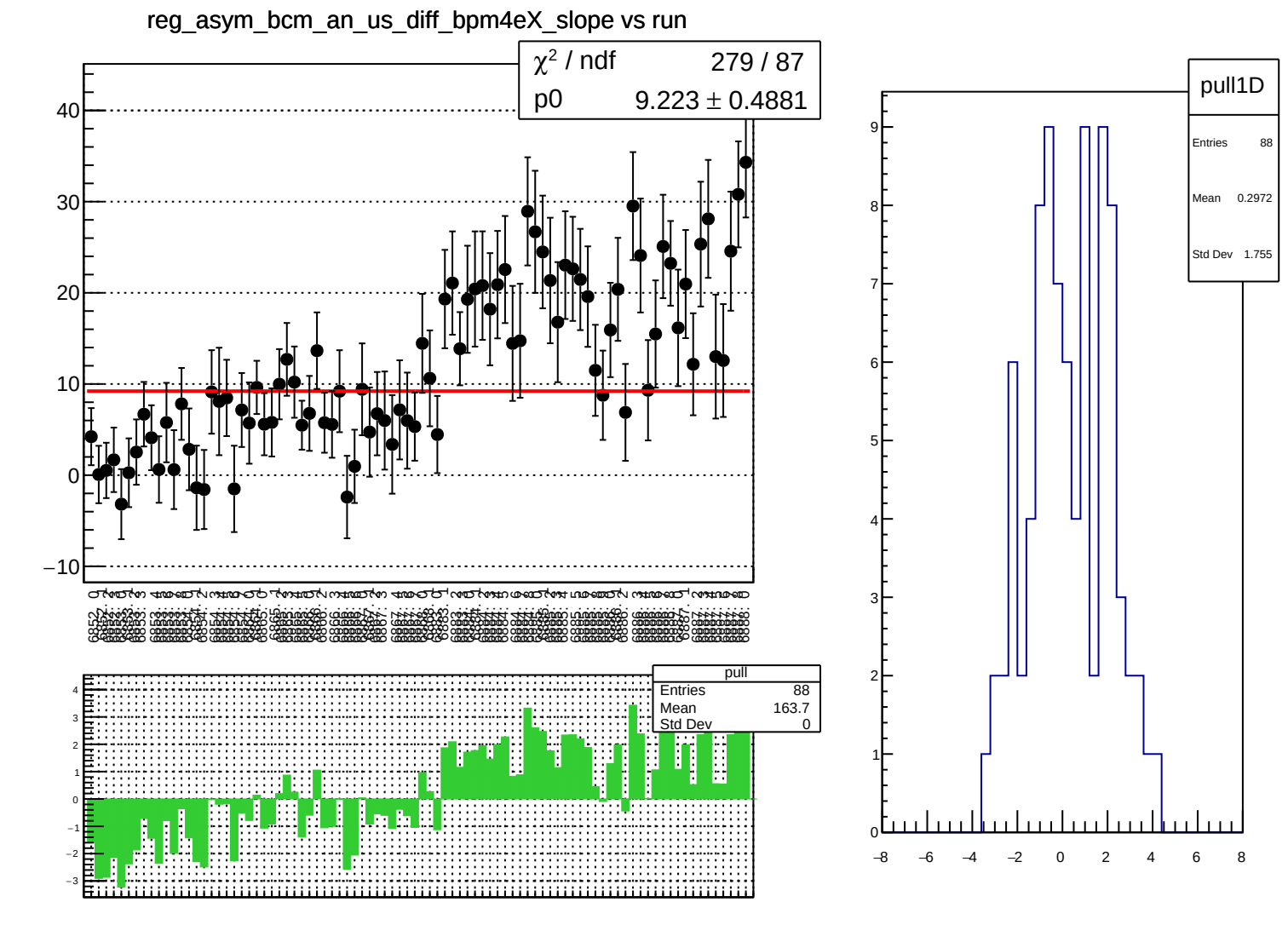

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 369.5 / 87
p0 −0.08333 ± 0.3448
pull
Entries 88
Mean 94.02
Std Dev 0

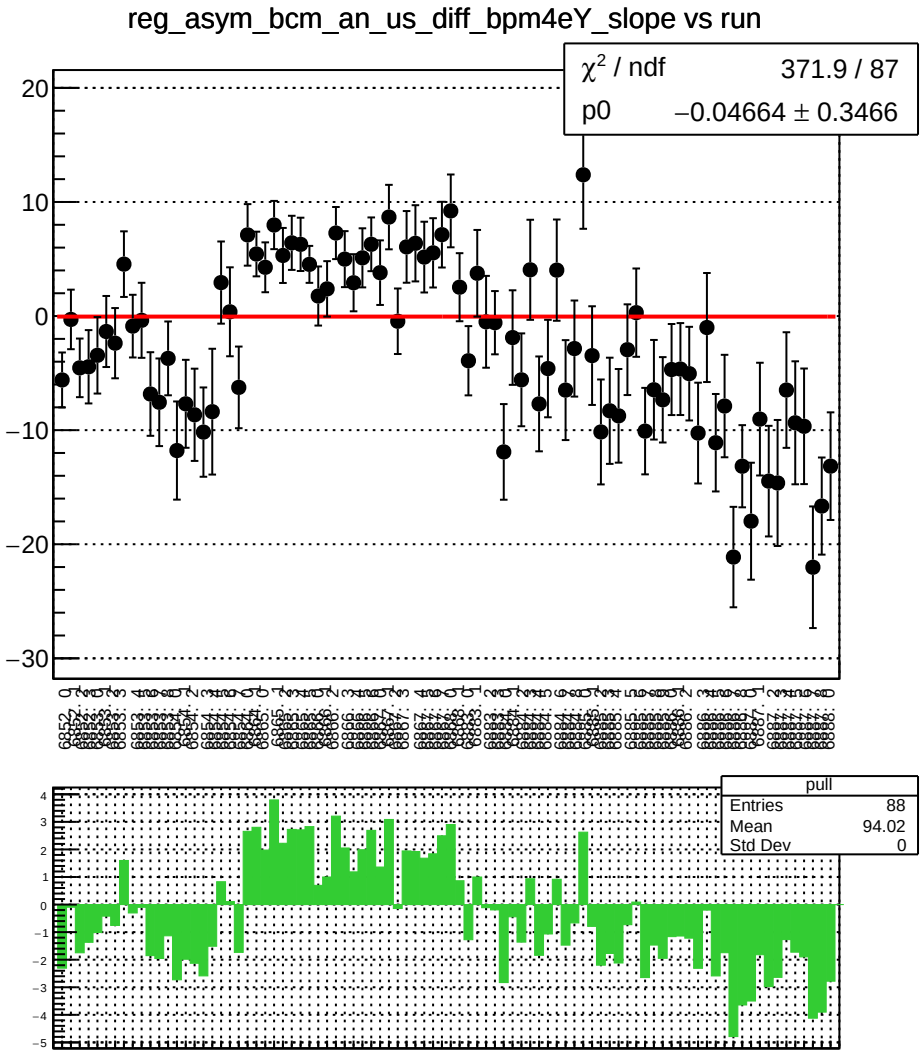

pull1D
Entries 88
Mean −0.4014
Std Dev 2.009

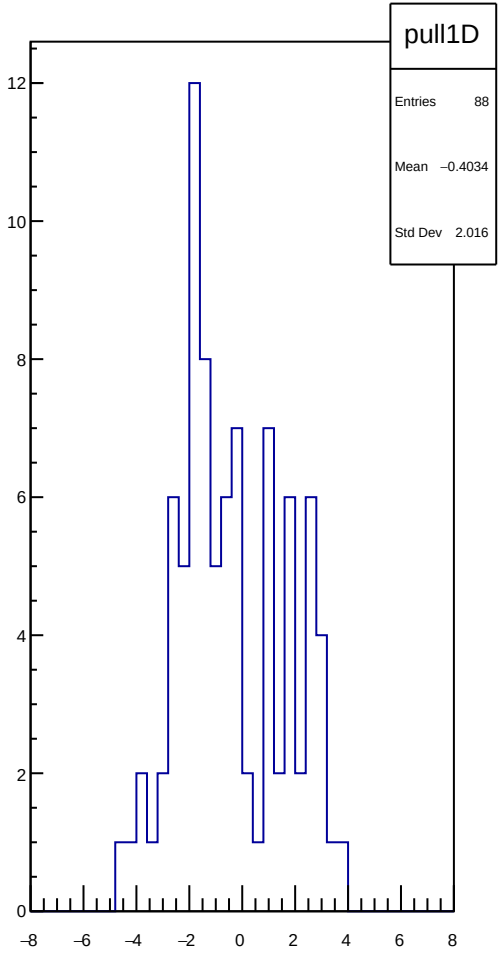

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 128.2 / 87
p0 −0.009456 ± 0.01925
pull
Entries 88
Mean 117.4
Std Dev 0
pull1D
Entries 88
Mean 0.1168
Std Dev 1.201

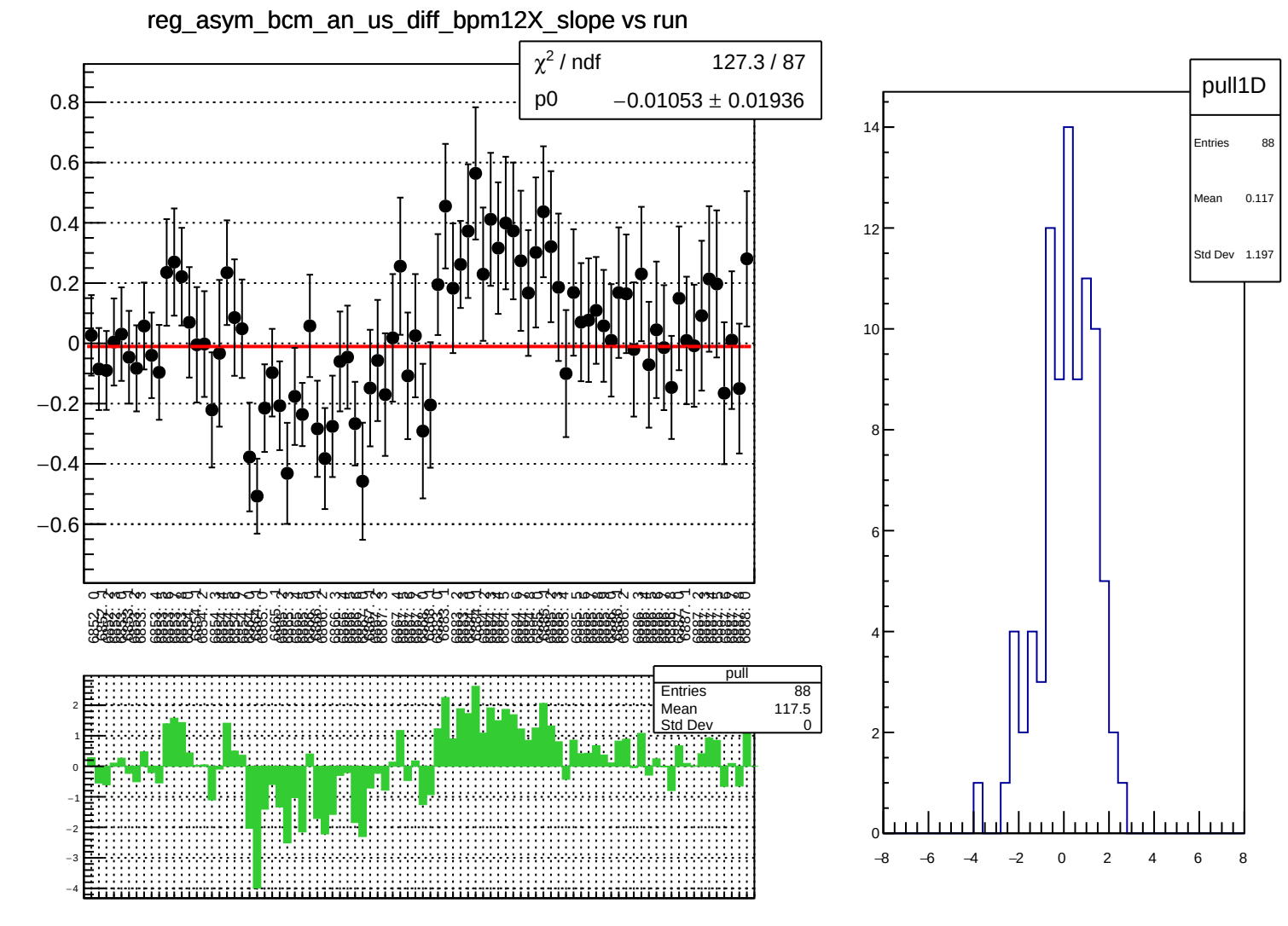

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 263.4 / 87
p0 −10.13 ± 0.5141
pull
Entries 88
Mean 175.3
Std Dev 0
pull1D
Entries 88
Mean −0.2601
Std Dev 1.711

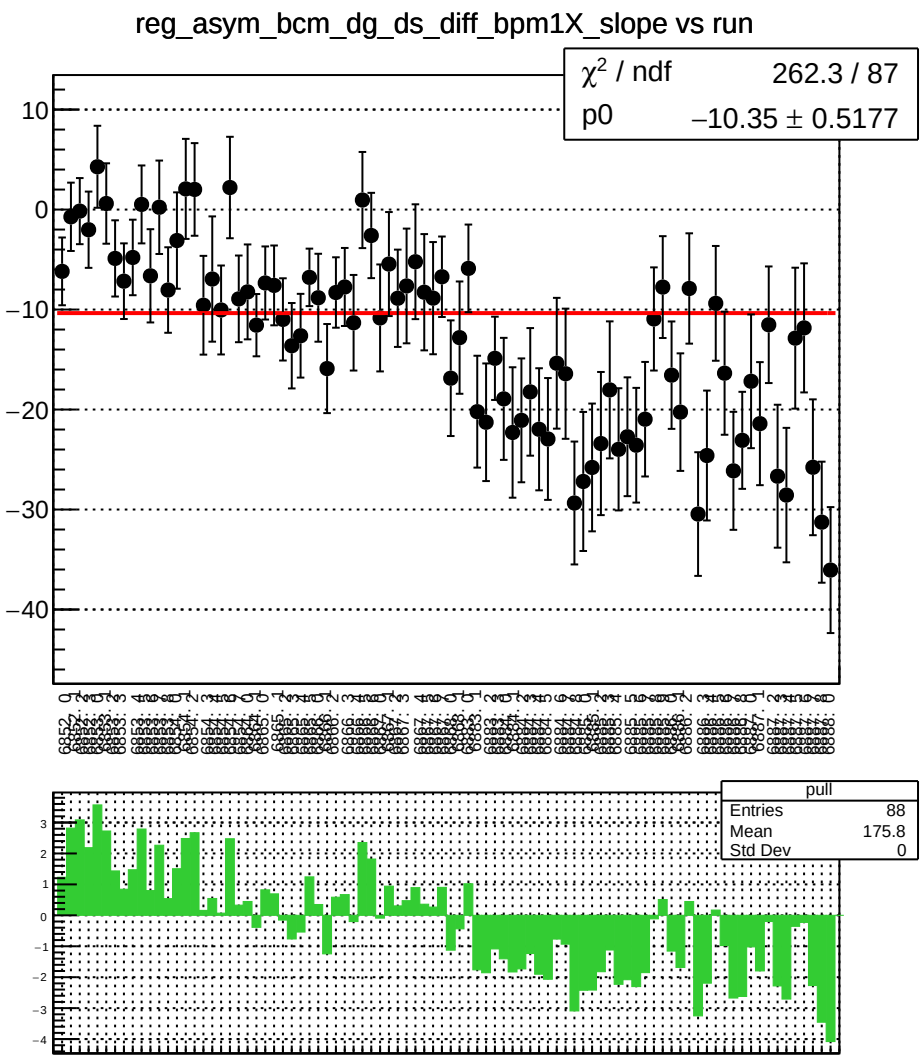

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 300.6 / 87
p0 −0.1959 ± 0.2679
pull
Entries 88
Mean 86.98
Std Dev 15.65
pull1D
Entries 88
Mean 0.3966
Std Dev 1.805

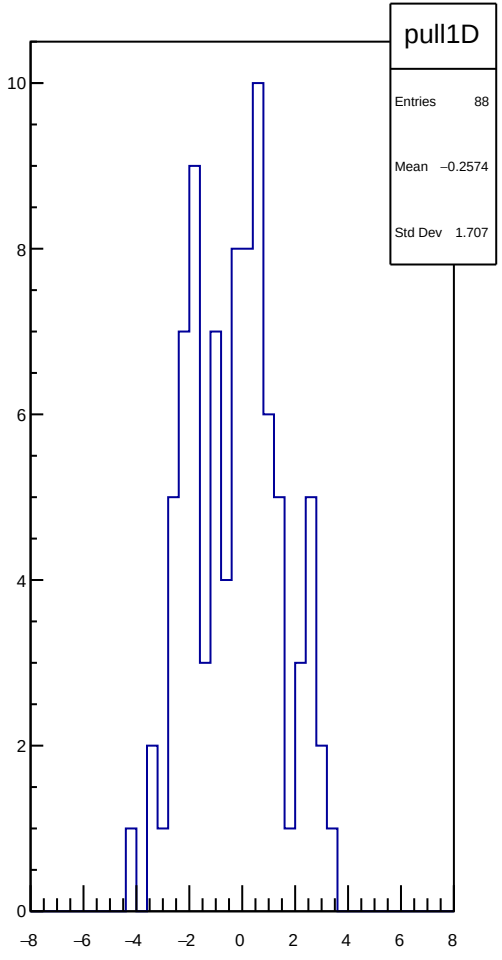

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 279 / 87
p0 9.223 ± 0.4881
pull
Entries 88
Mean 163.7
Std Dev 0
pull1D
Entries 88
Mean 0.2972
Std Dev 1.755

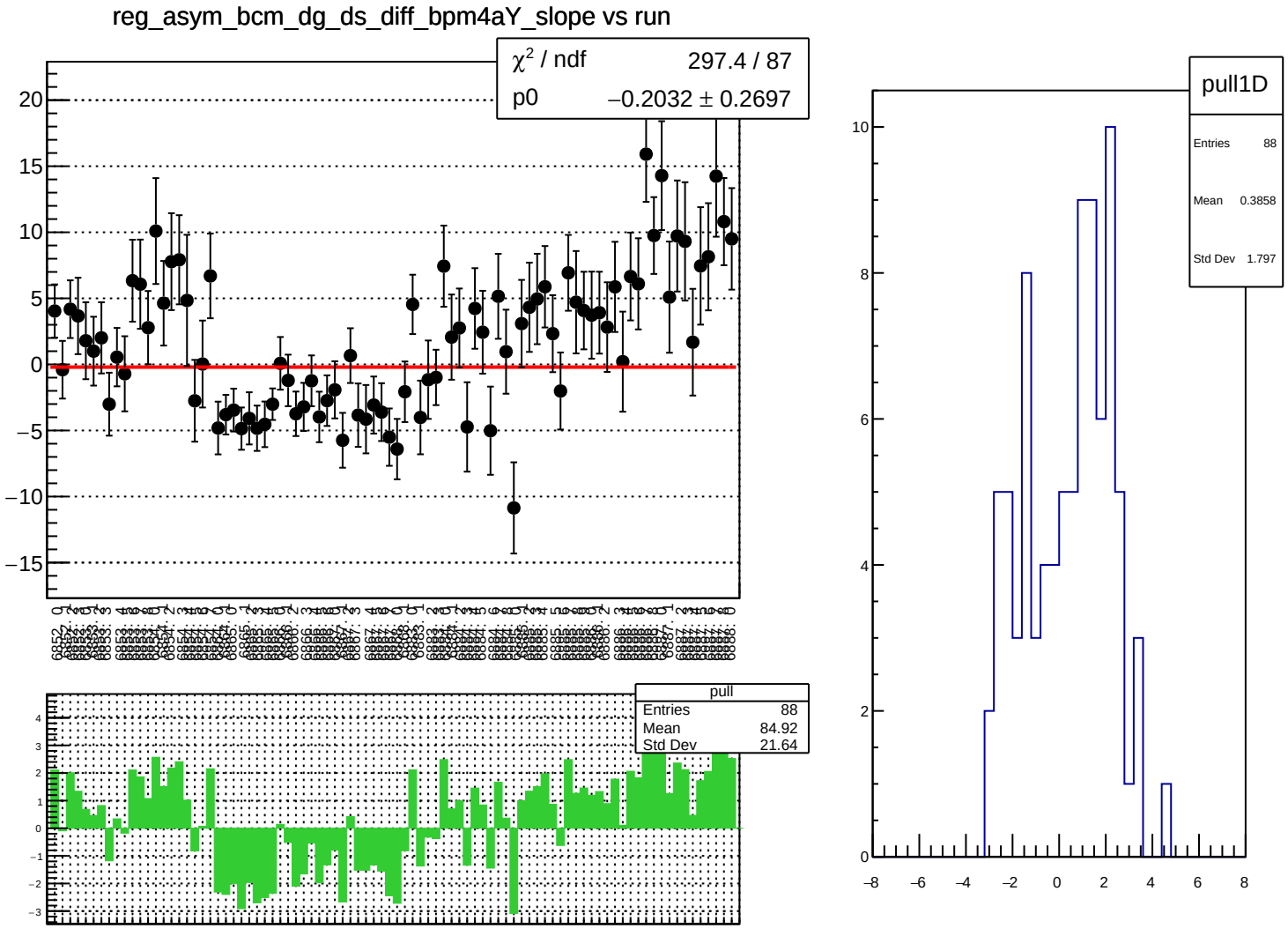

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 371.9 / 87
p0 −0.04664 ± 0.3466
pull
Entries 88
Mean 94.02
Std Dev 0

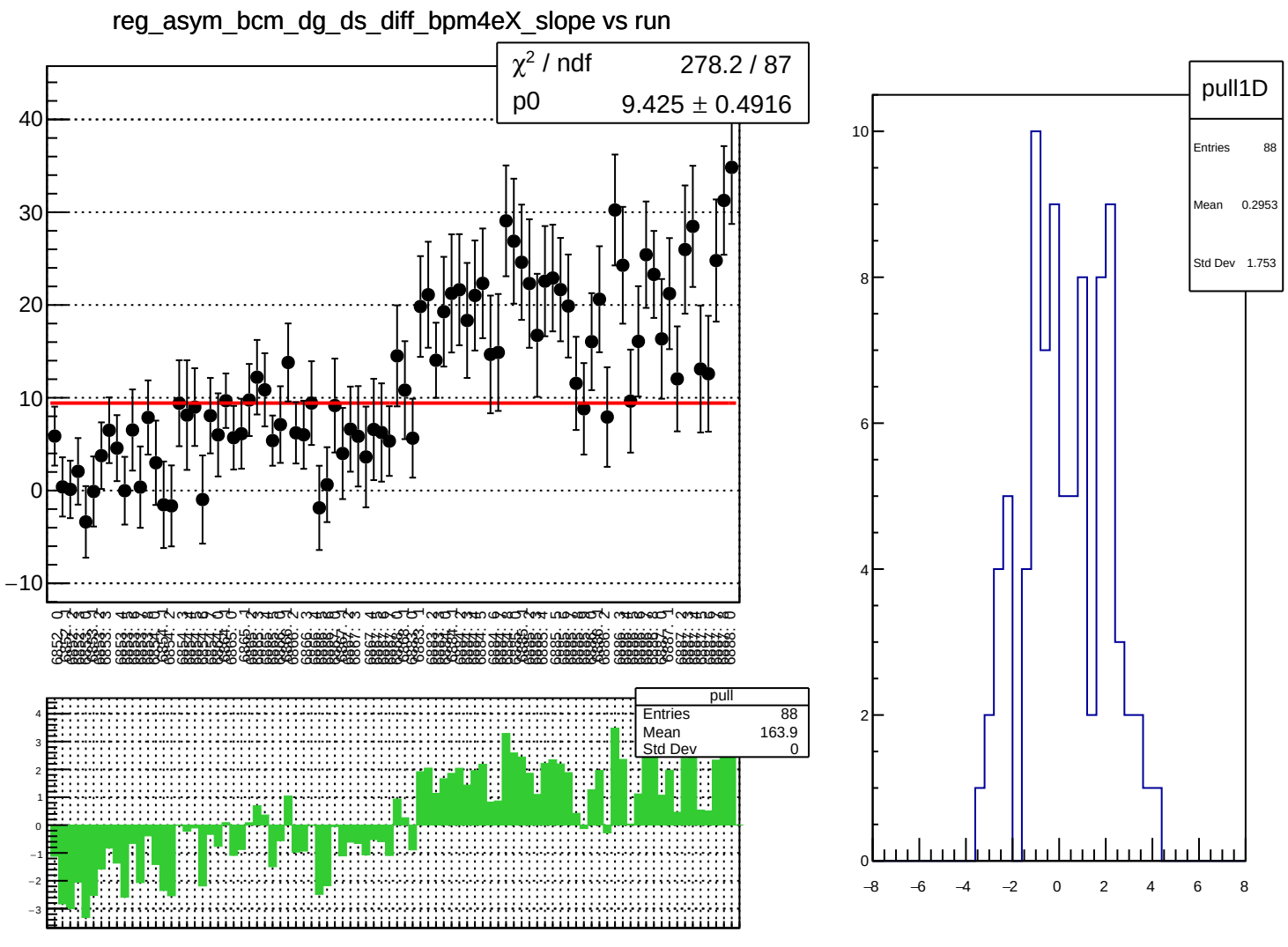

pull1D
Entries 88
Mean −0.4034
Std Dev 2.016

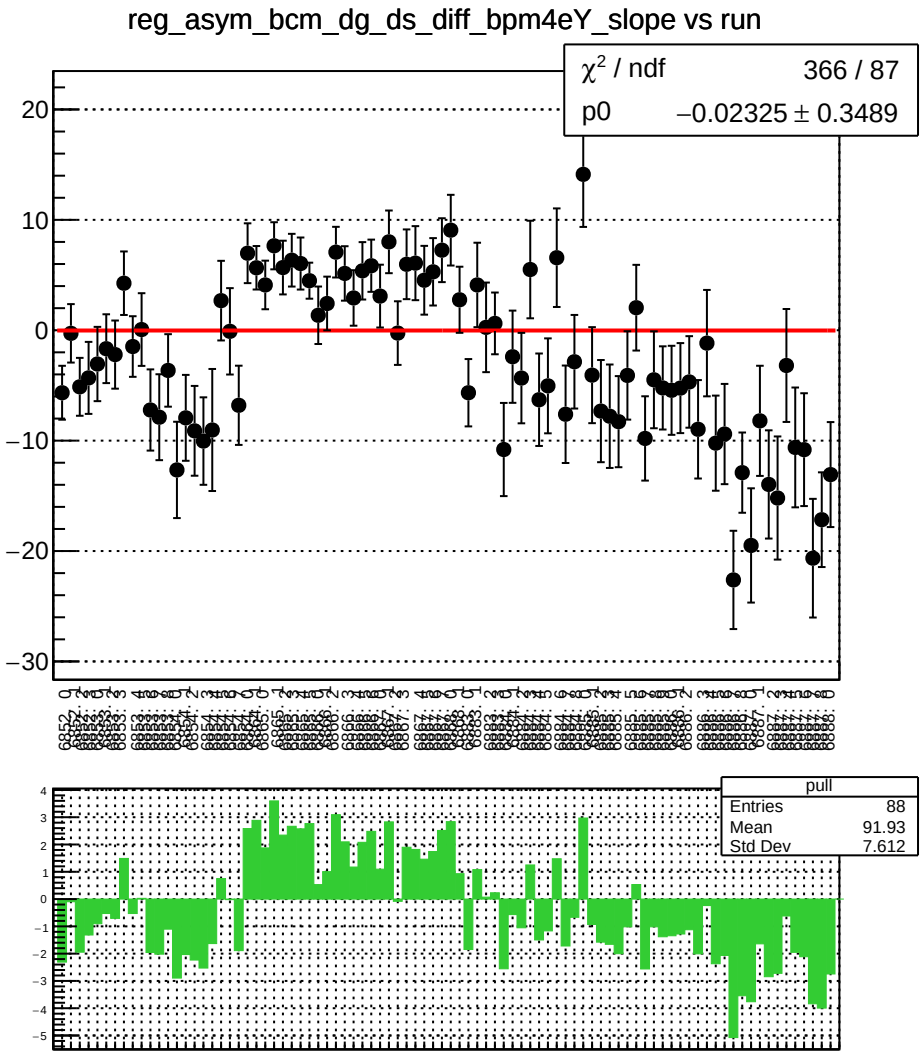

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 127.3 / 87
p0 −0.01053 ± 0.01936
pull
Entries 88
Mean 117.5
Std Dev 0
pull1D
Entries 88
Mean 0.117
Std Dev 1.197

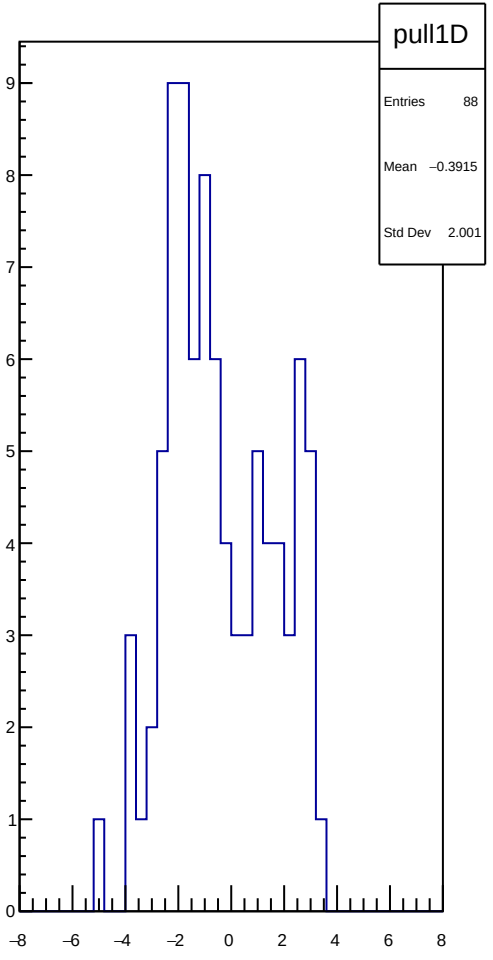

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 262.3 / 87
p0 −10.35 ± 0.5177
pull
Entries 88
Mean 175.8
Std Dev 0

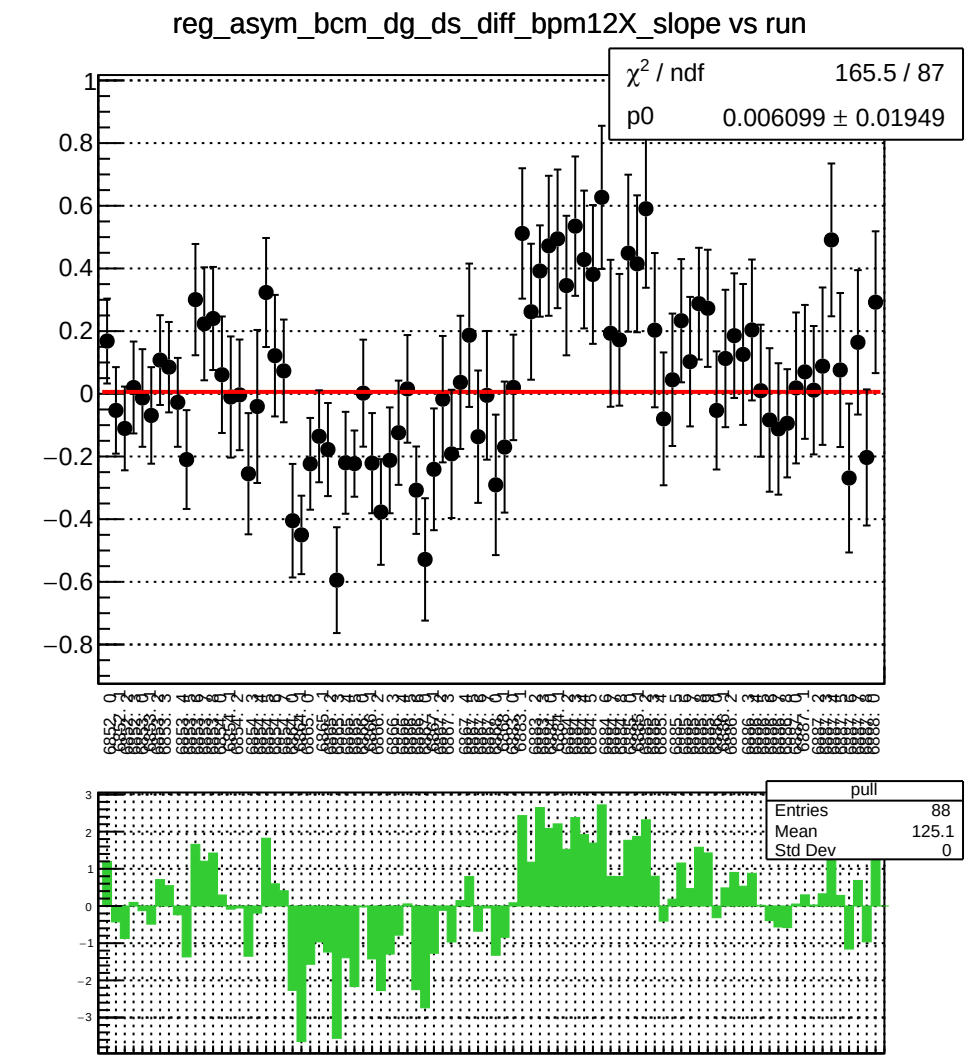

pull1D
Entries 88
Mean −0.2574
Std Dev 1.707

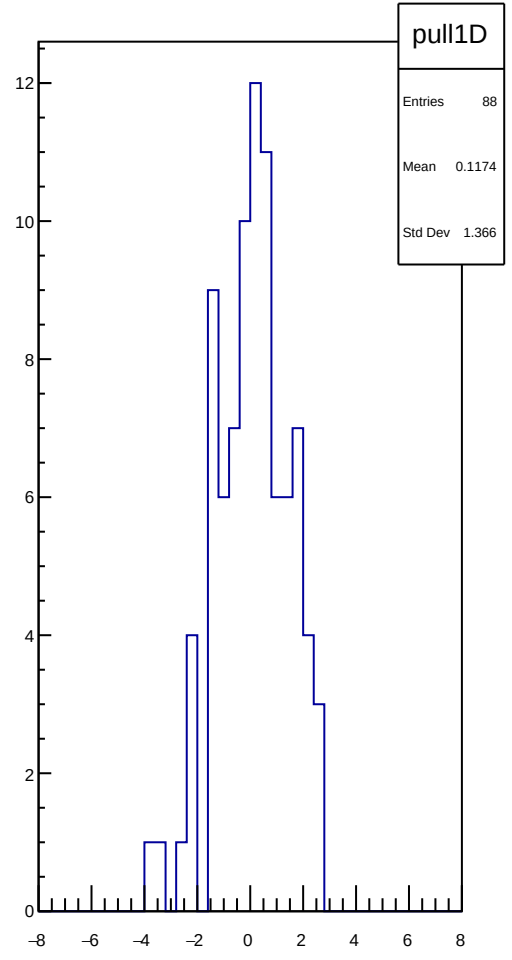

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 297.4 / 87
p0 −0.2032 ± 0.2697
pull
Entries 88
Mean 84.92
Std Dev 21.64
pull1D
Entries 88
Mean 0.3858
Std Dev 1.797

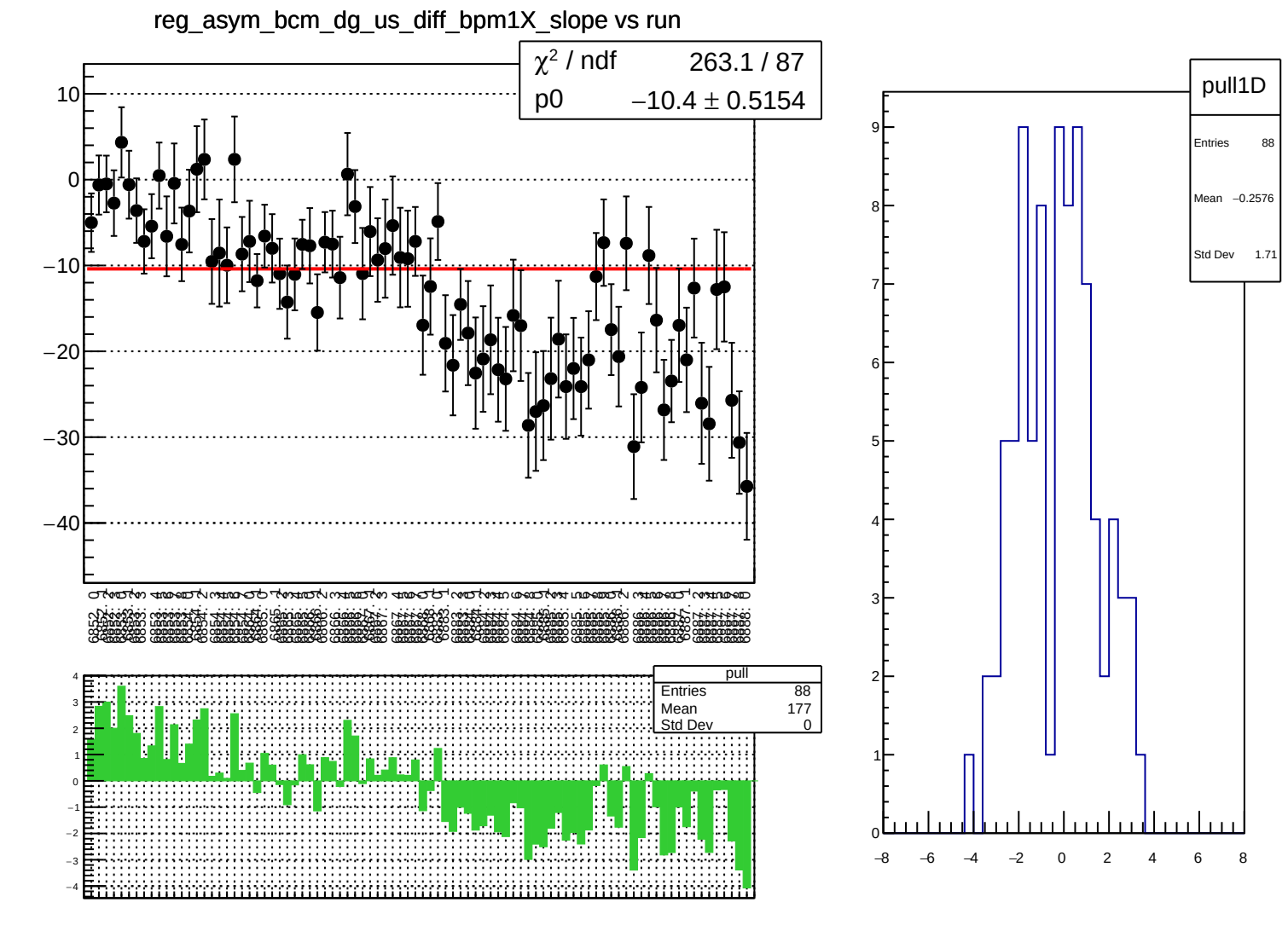

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 278.2 / 87
p0 9.425 ± 0.4916
pull
Entries 88
Mean 163.9
Std Dev 0
pull1D
Entries 88
Mean 0.2953
Std Dev 1.753

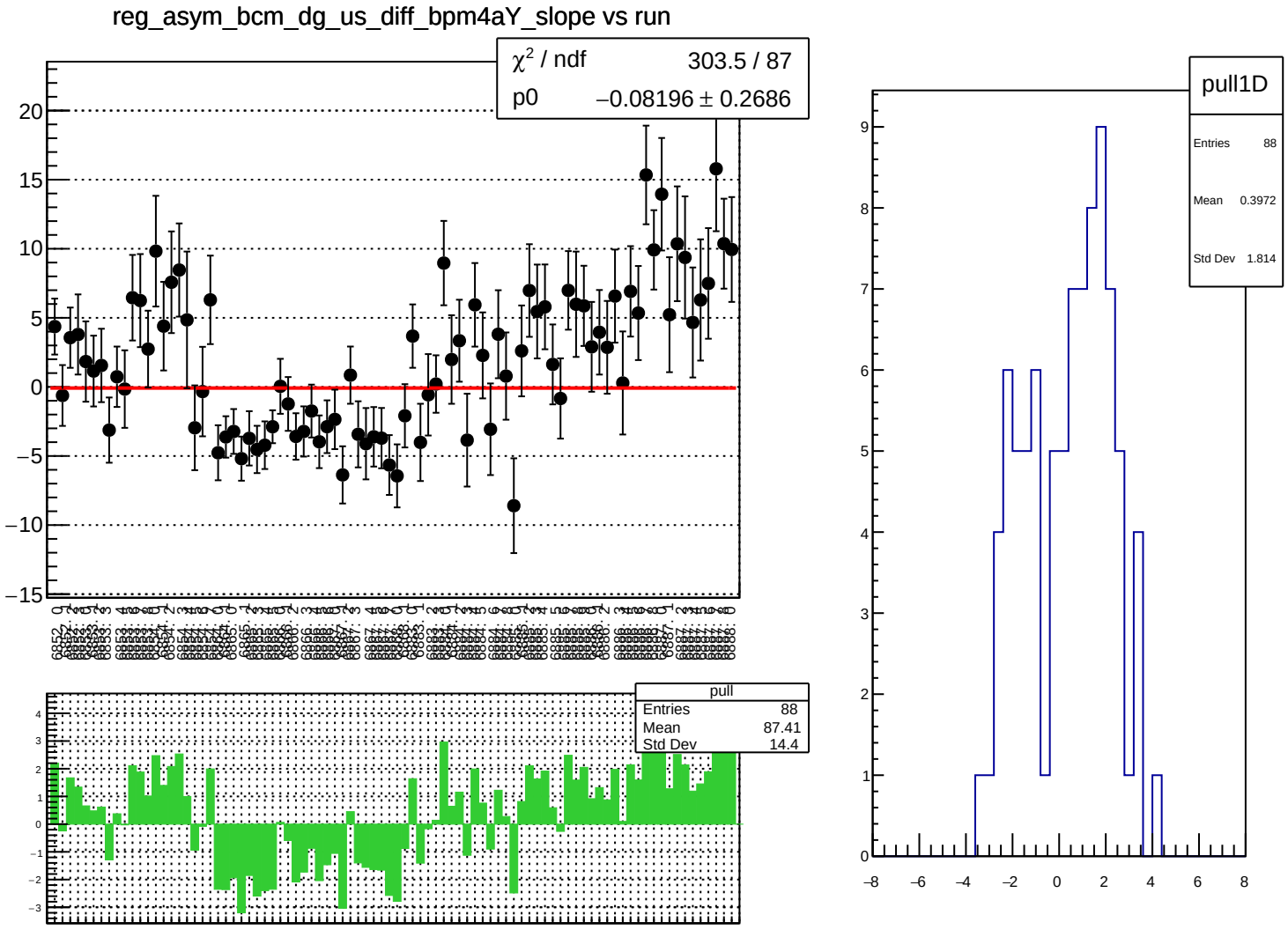

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 366 / 87
p0 −0.02325 ± 0.3489
pull
Entries 88
Mean 91.93
Std Dev 7.612

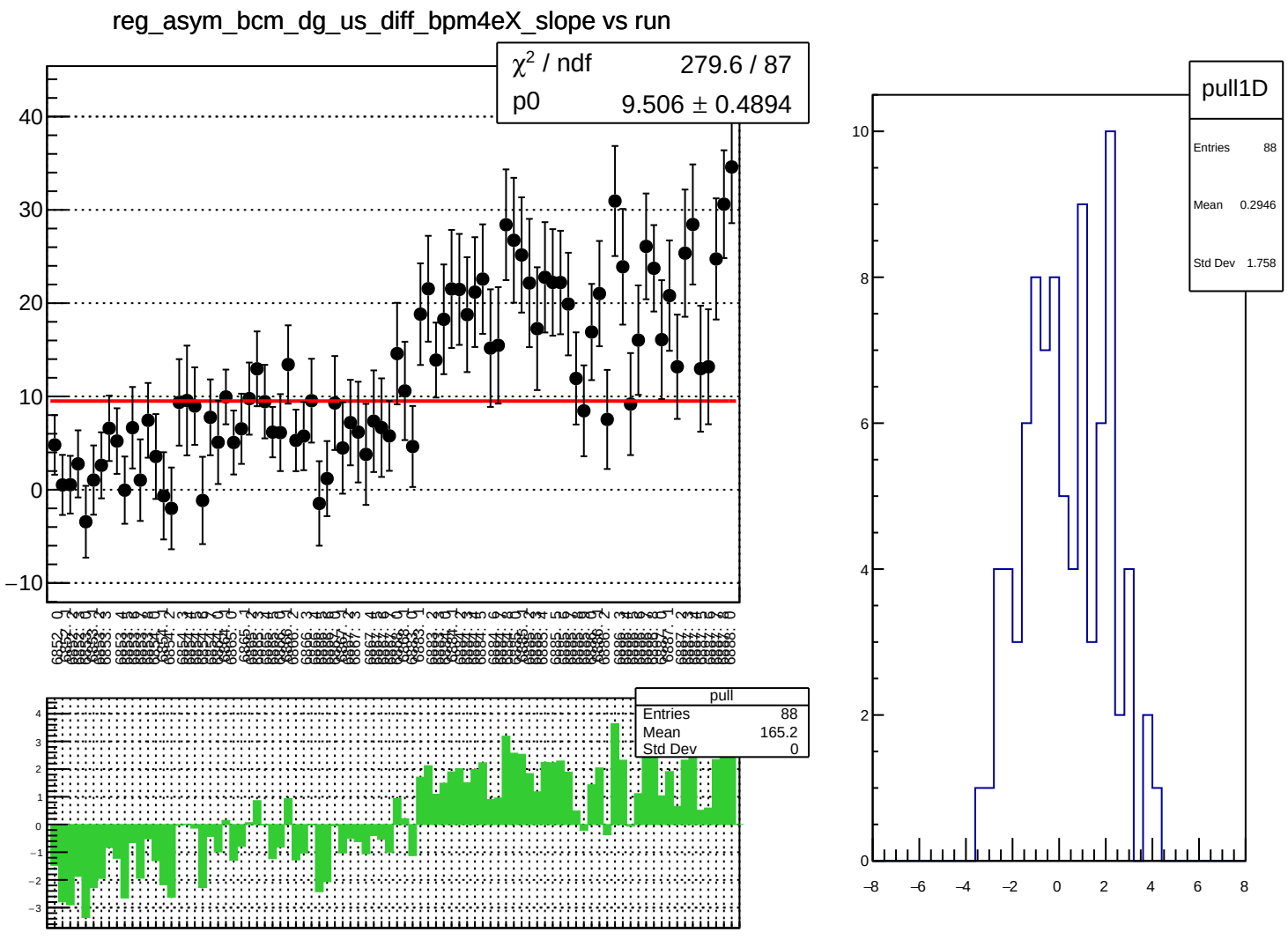

pull1D
Entries 88
Mean −0.3915
Std Dev 2.001

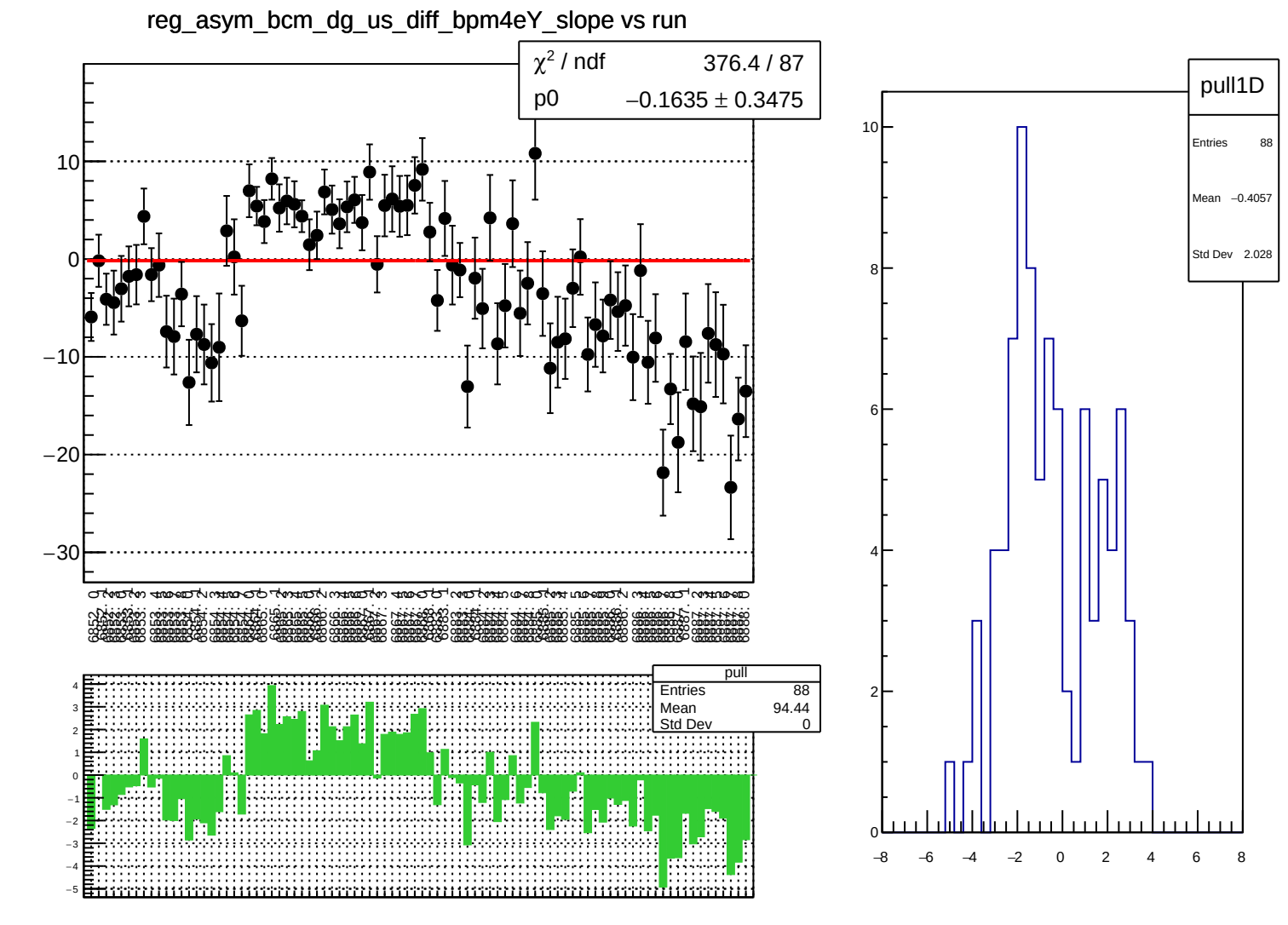

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 165.5 / 87
p0 0.006099 ± 0.01949
pull
Entries 88
Mean 125.1
Std Dev 0

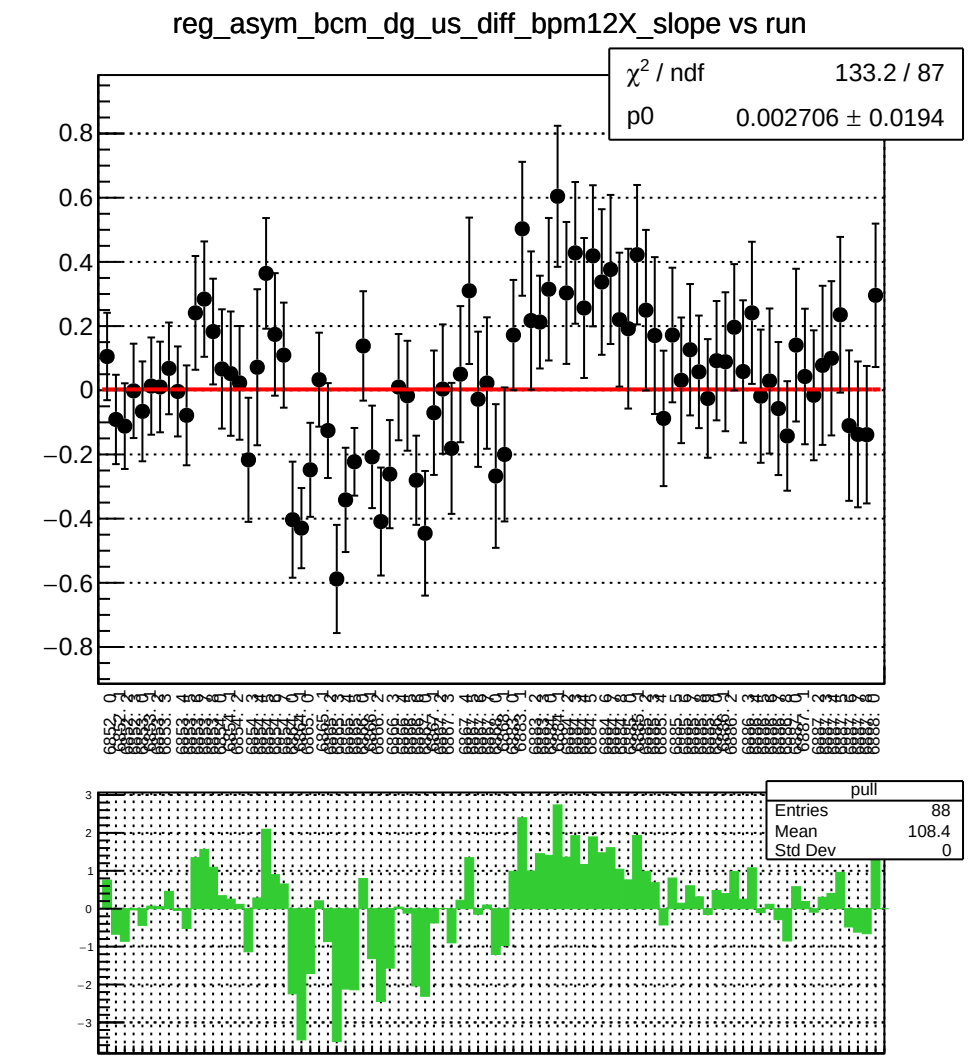

pull1D
Entries 88
Mean 0.1174
Std Dev 1.366

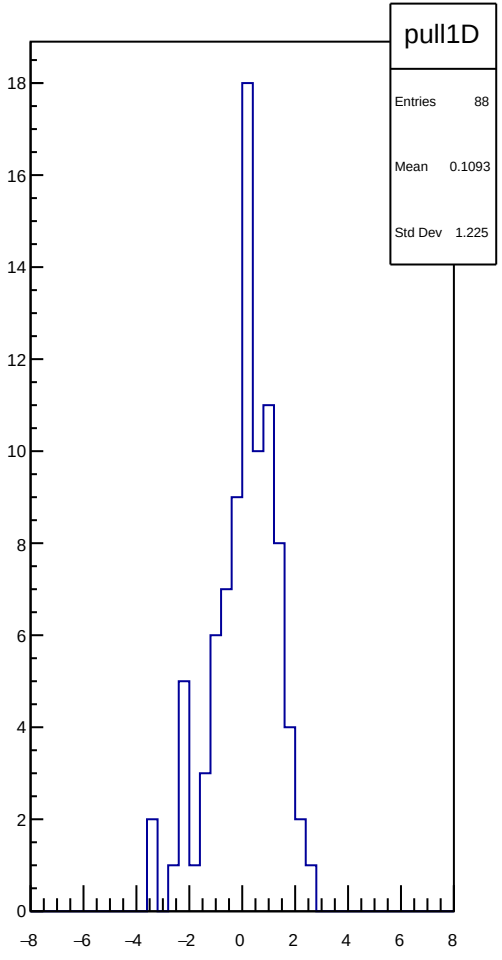

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 263.1 / 87
p0 −10.4 ± 0.5154
pull
Entries 88
Mean 177
Std Dev 0
pull1D
Entries 88
Mean −0.2576
Std Dev 1.71

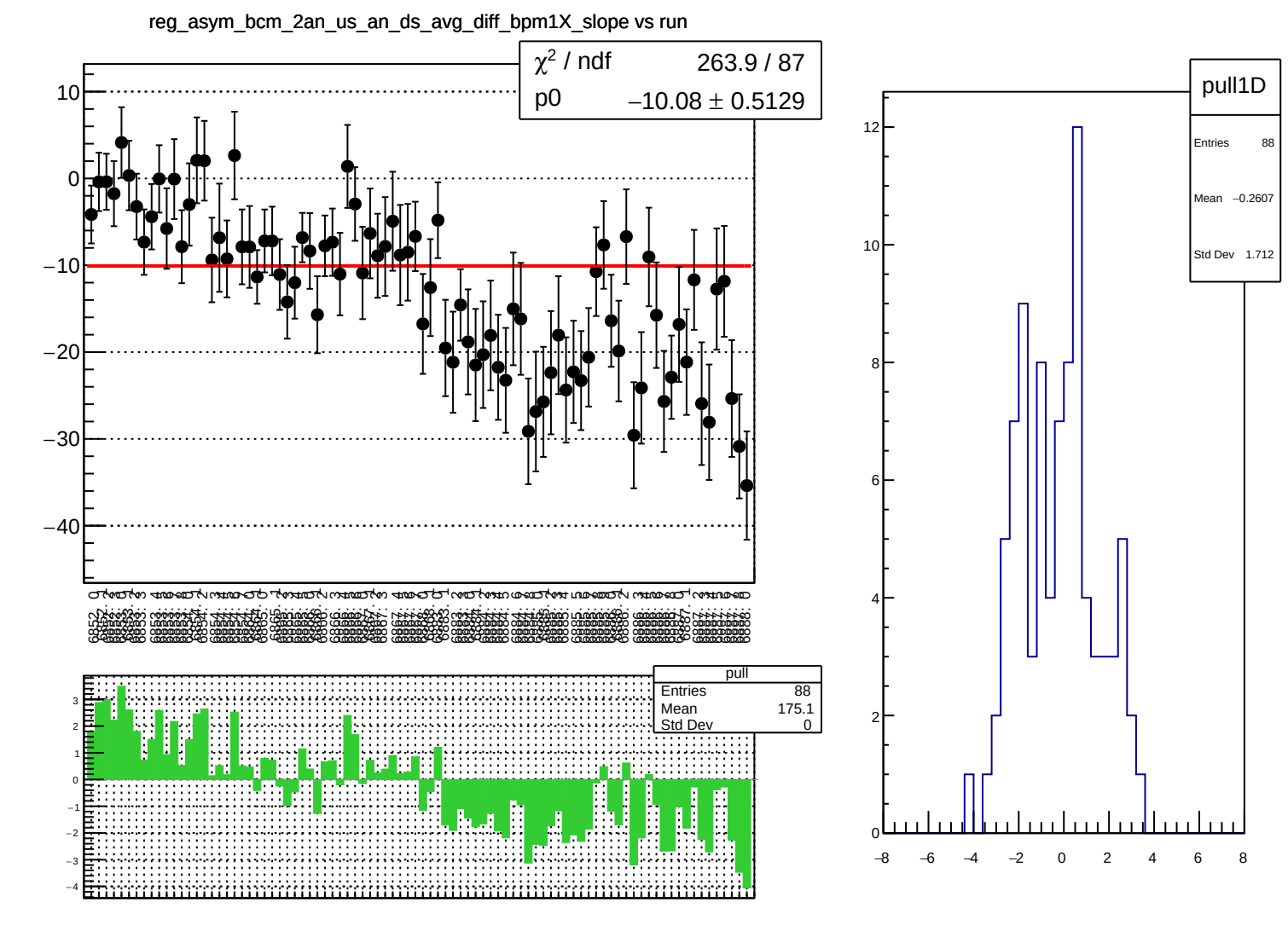

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 303.5 / 87
p0 −0.08196 ± 0.2686
pull
Entries 88
Mean 87.41
Std Dev 14.4
pull1D
Entries 88
Mean 0.3972
Std Dev 1.814

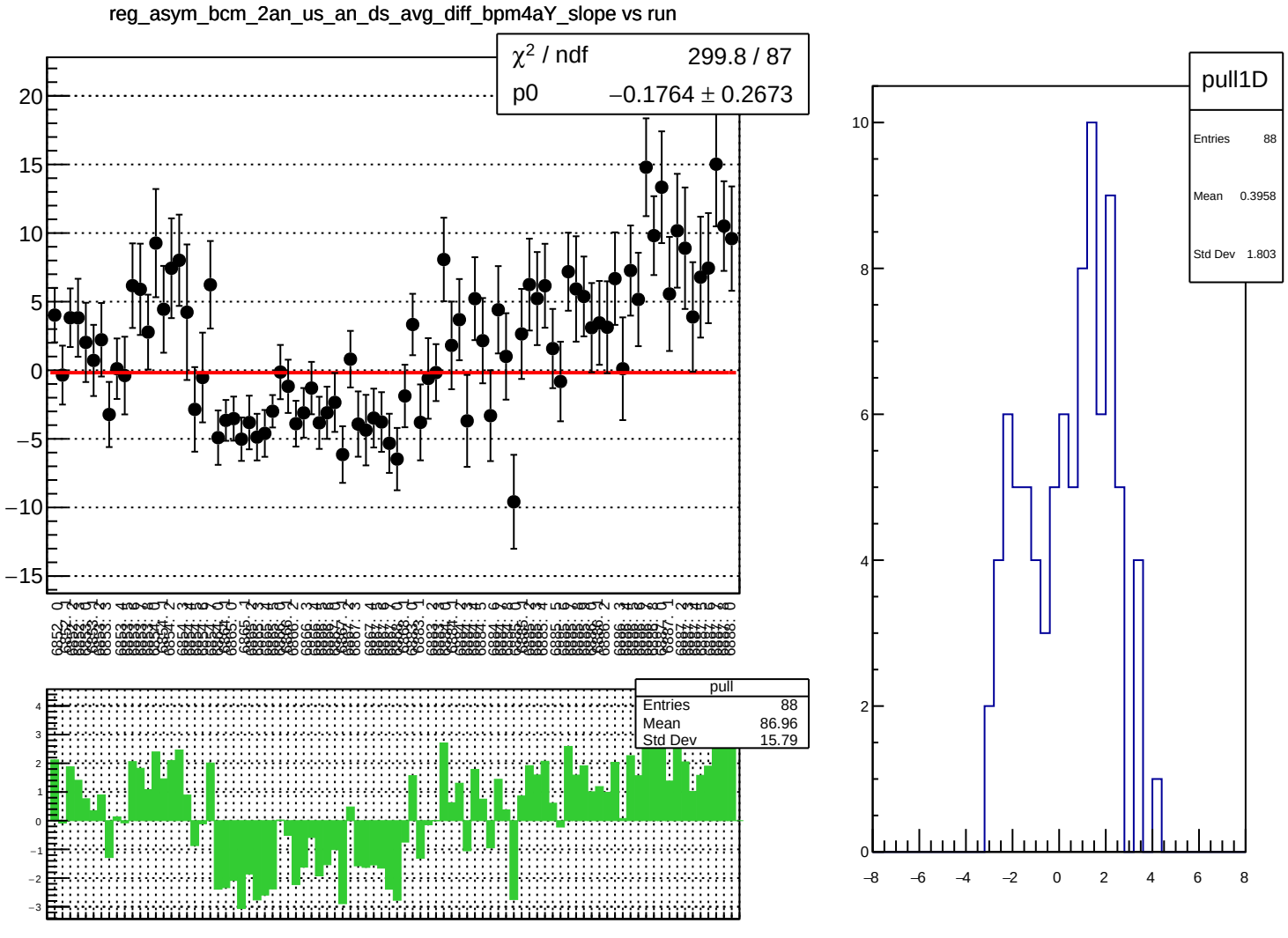

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 279.6 / 87
p0 9.506 ± 0.4894
pull
Entries 88
Mean 165.2
Std Dev 0
pull1D
Entries 88
Mean 0.2946
Std Dev 1.758

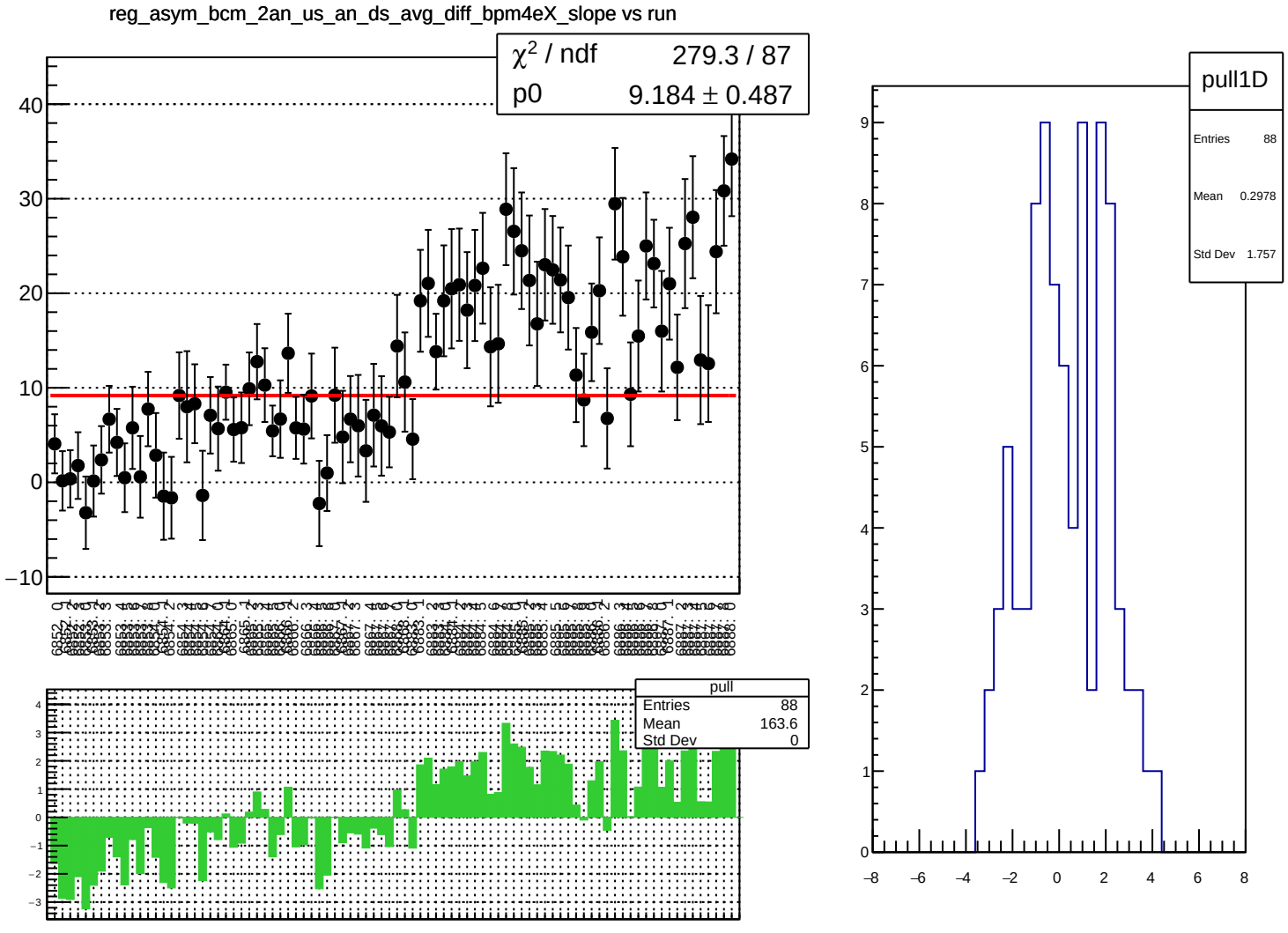

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 376.4 / 87
p0 −0.1635 ± 0.3475
pull
Entries 88
Mean 94.44
Std Dev 0
pull1D
Entries 88
Mean −0.4057
Std Dev 2.028

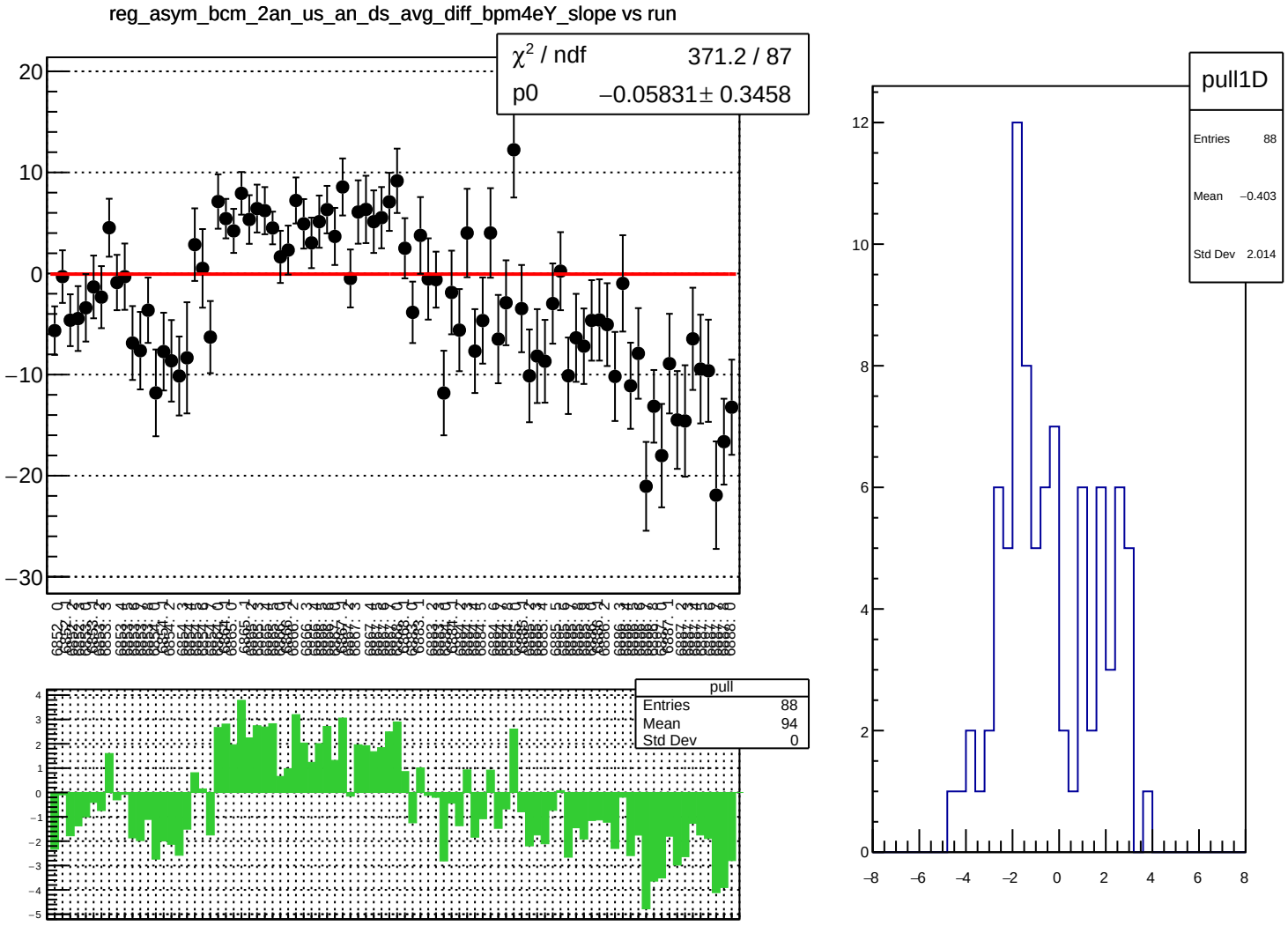

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 133.2 / 87
p0 0.002706 ± 0.0194
pull
Entries 88
Mean 108.4
Std Dev 0

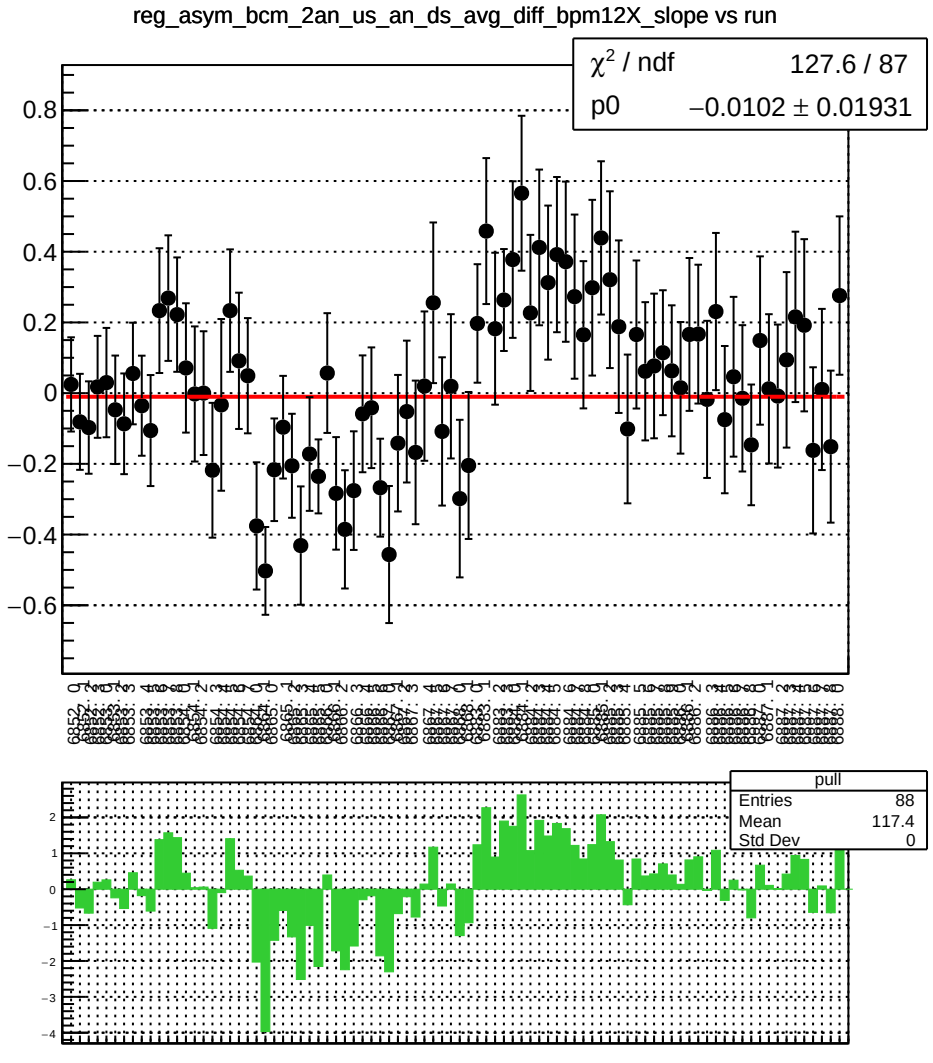

pull1D
Entries 88
Mean 0.1093
Std Dev 1.225

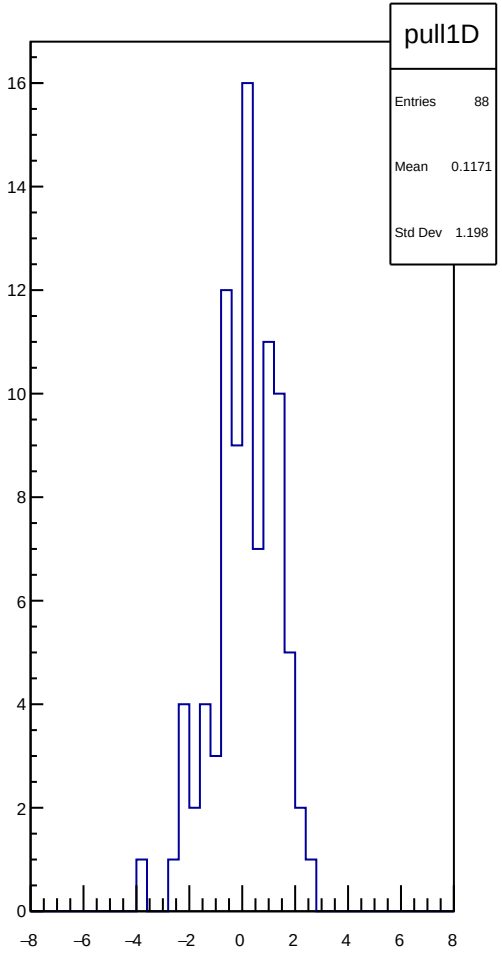

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 263.9 / 87
p0 −10.08 ± 0.5129
10
0
−10
−20
−30
−40
pull
Entries 88
Mean 175.1
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 88
Mean −0.2607
Std Dev 1.712
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

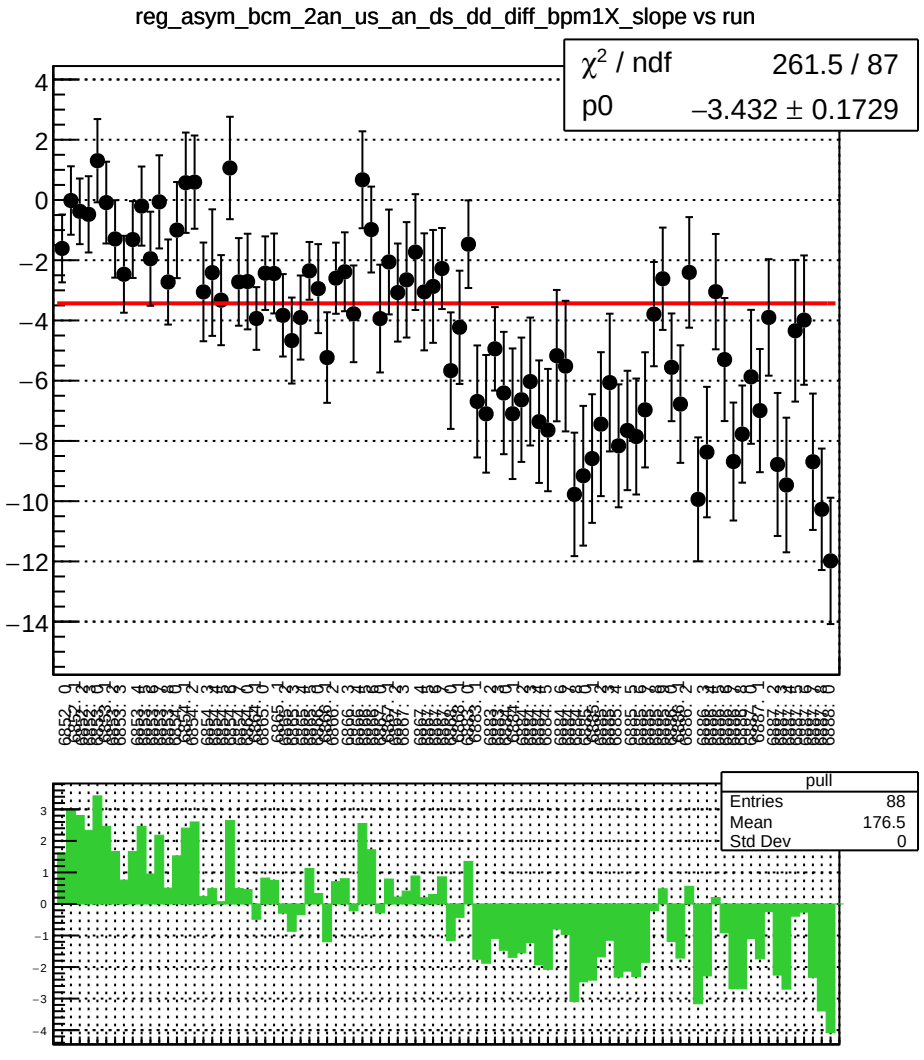

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 299.8 / 87
p0 −0.1764 ± 0.2673
pull
Entries 88
Mean 86.96
Std Dev 15.79
pull1D
Entries 88
Mean 0.3958
Std Dev 1.803

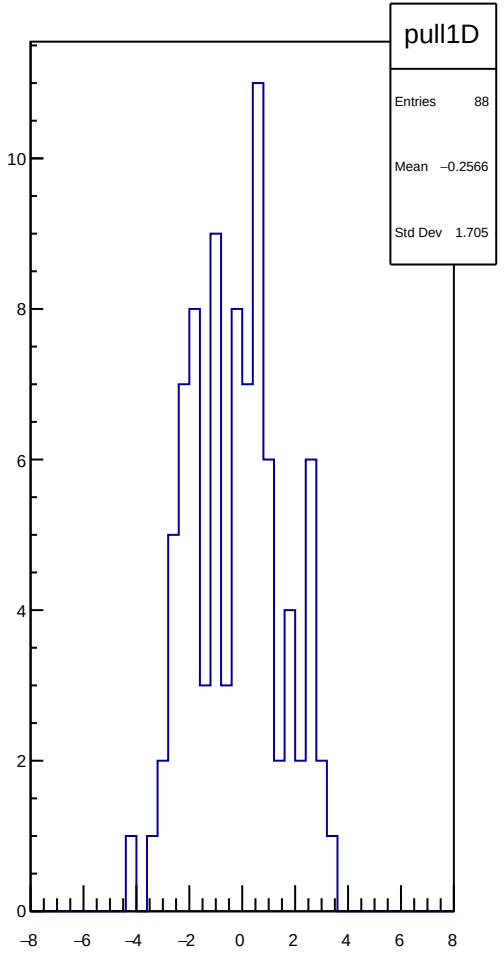

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 279.3 / 87
p0 9.184 ± 0.487
pull
Entries 88
Mean 163.6
Std Dev 0
pull1D
Entries 88
Mean 0.2978
Std Dev 1.757

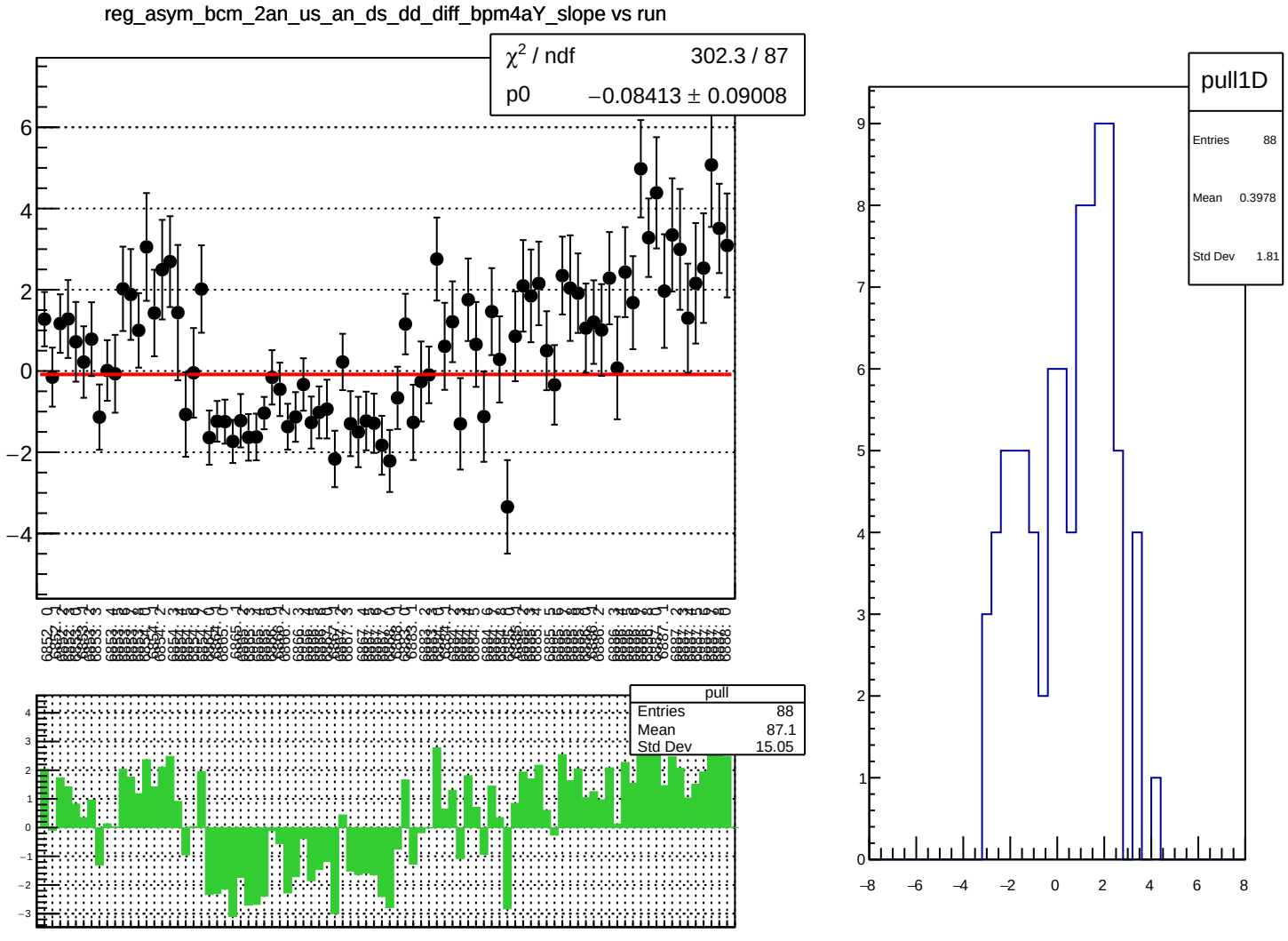

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 371.2 / 87
p0 −0.05831± 0.3458
pull
Entries 88
Mean 94
Std Dev 0
pull1D
Entries 88
Mean −0.403
Std Dev 2.014

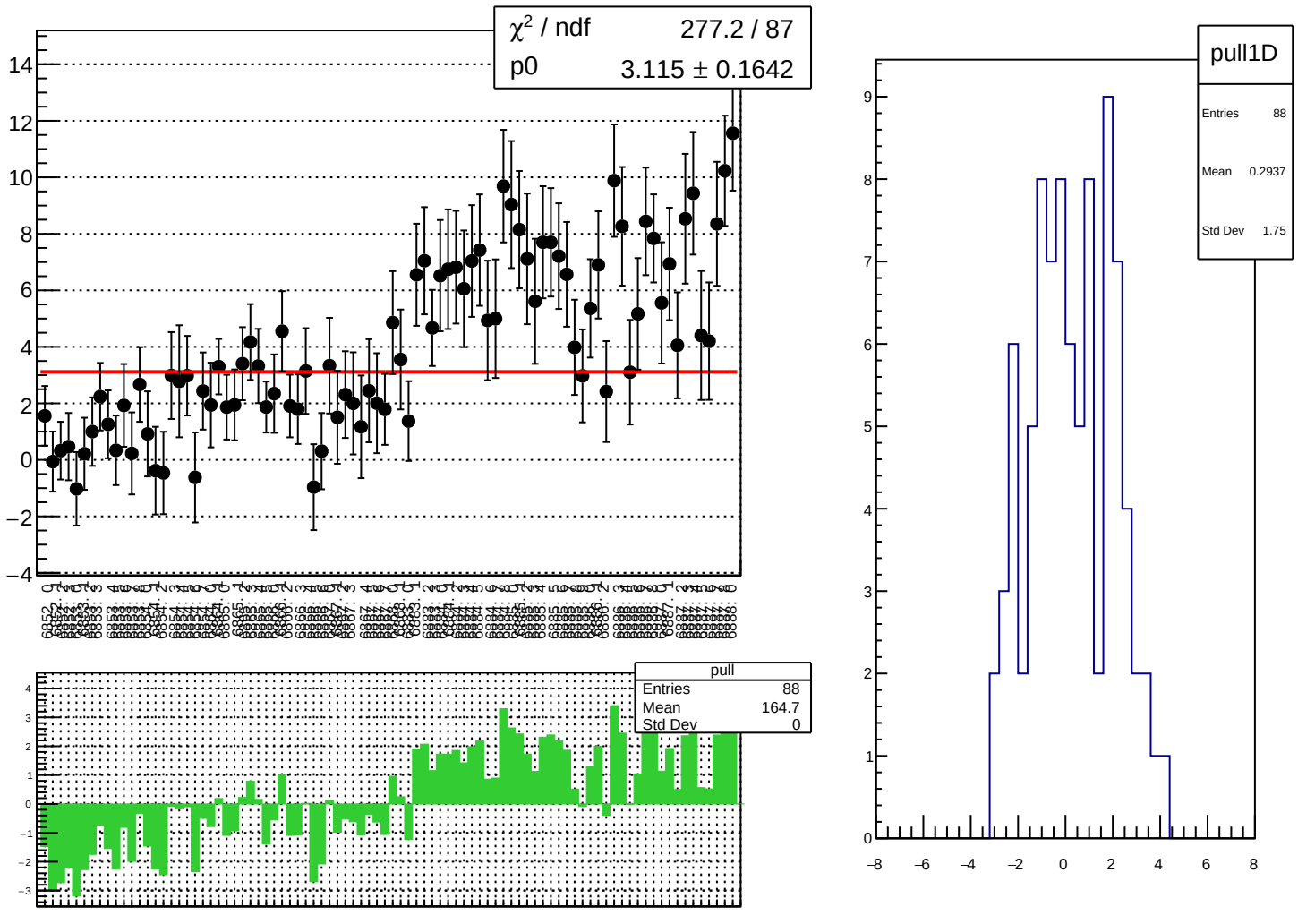

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 127.6 / 87
p0 −0.0102 ± 0.01931
pull
Entries 88
Mean 117.4
Std Dev 0

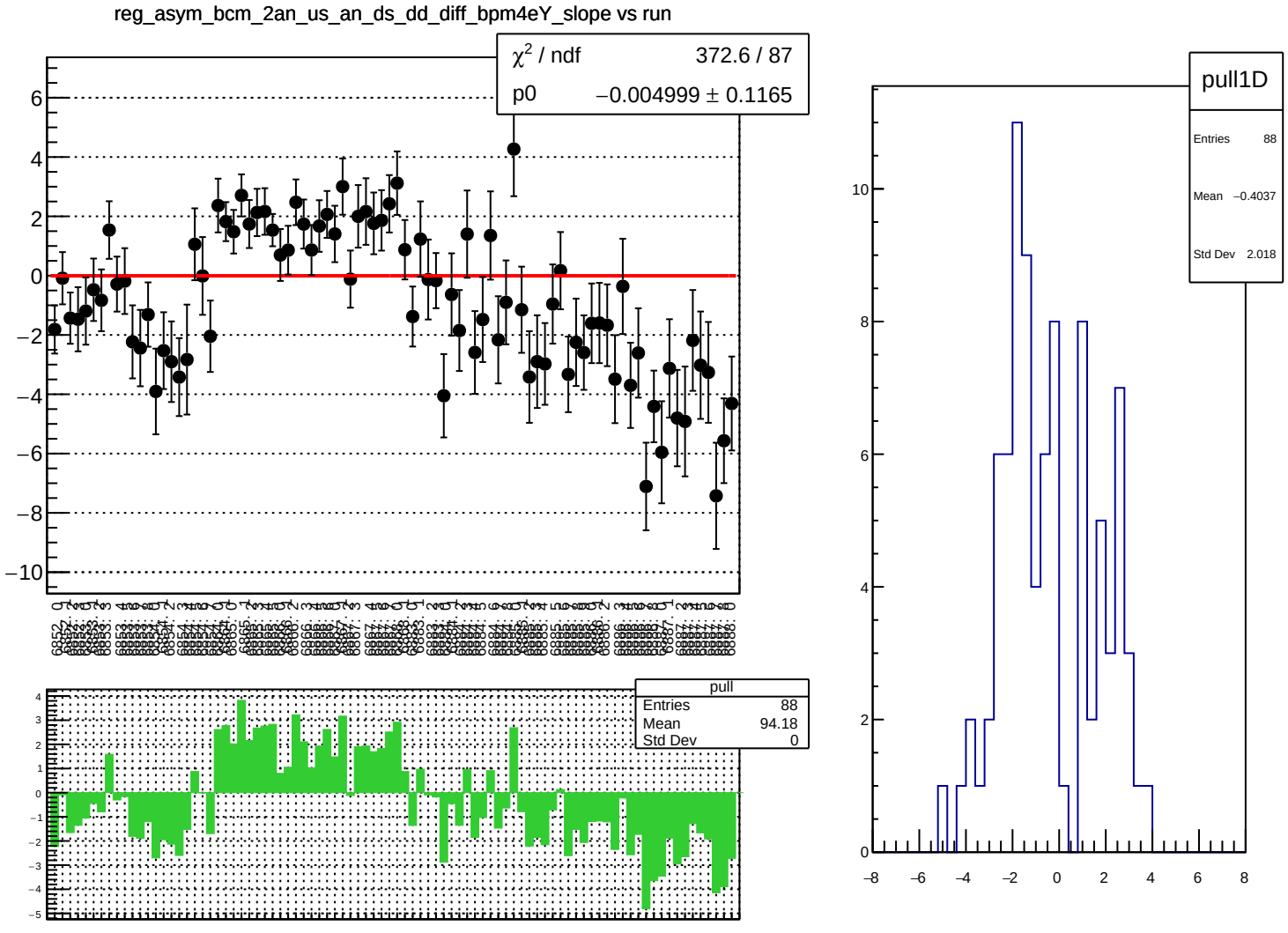

pull1D
Entries 88
Mean 0.1171
Std Dev 1.198

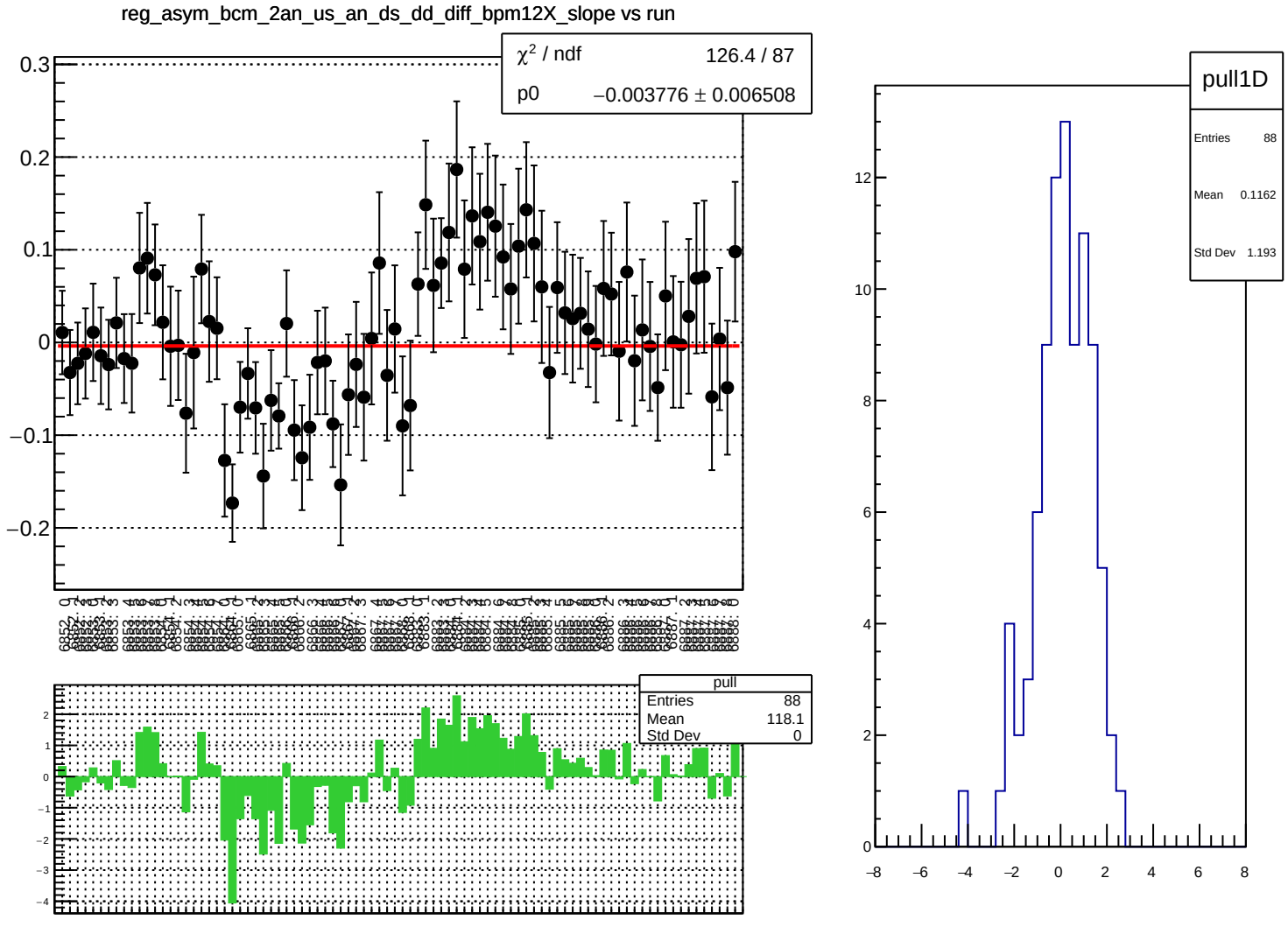

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 261.5 / 87
p0 −3.432 ± 0.1729
pull
Entries 88
Mean 176.5
Std Dev 0

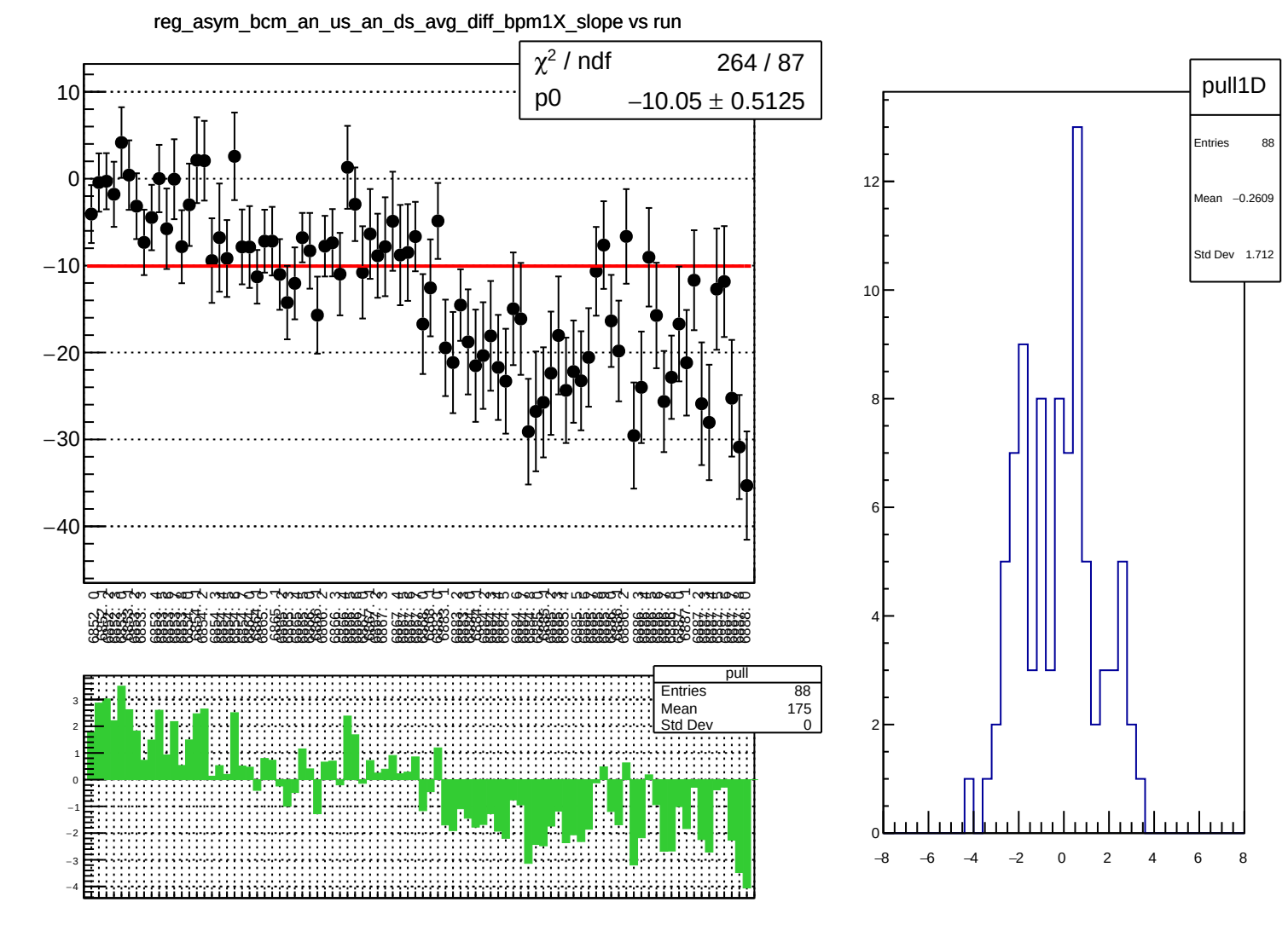

pull1D
Entries 88
Mean −0.2566
Std Dev 1.705

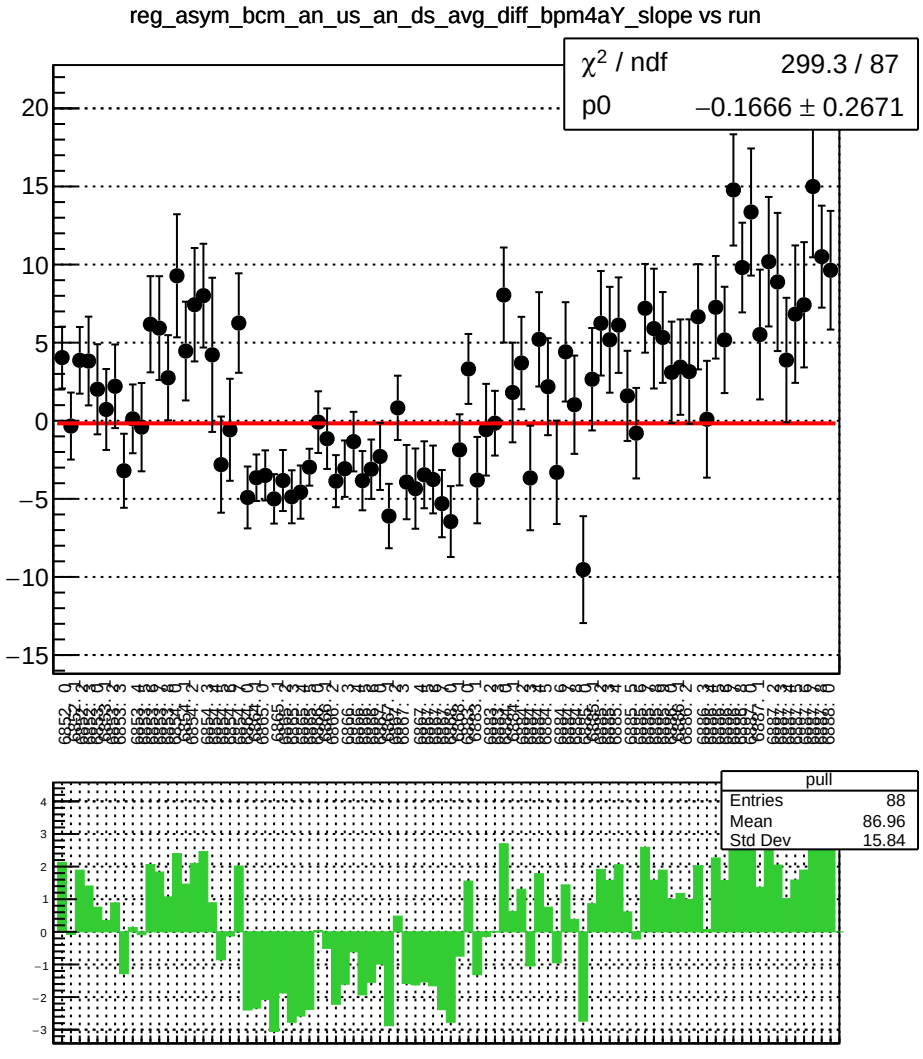

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 302.3 / 87
p0 −0.08413 ± 0.09008
pull
Entries 88
Mean 87.1
Std Dev 15.05
pull1D
Entries 88
Mean 0.3978
Std Dev 1.81

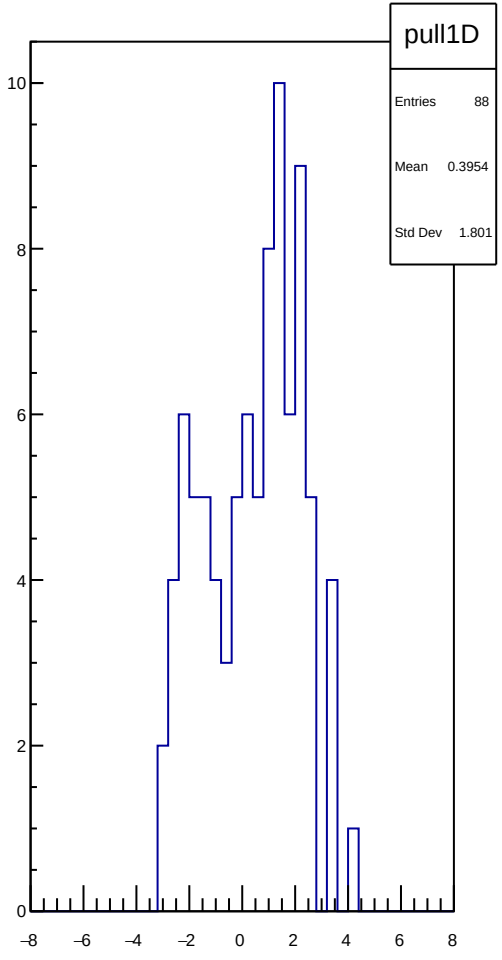

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 277.2 / 87
p0 3.115 ± 0.1642
pull
Entries 88
Mean 164.7
Std Dev 0
pull1D
Entries 88
Mean 0.2937
Std Dev 1.75

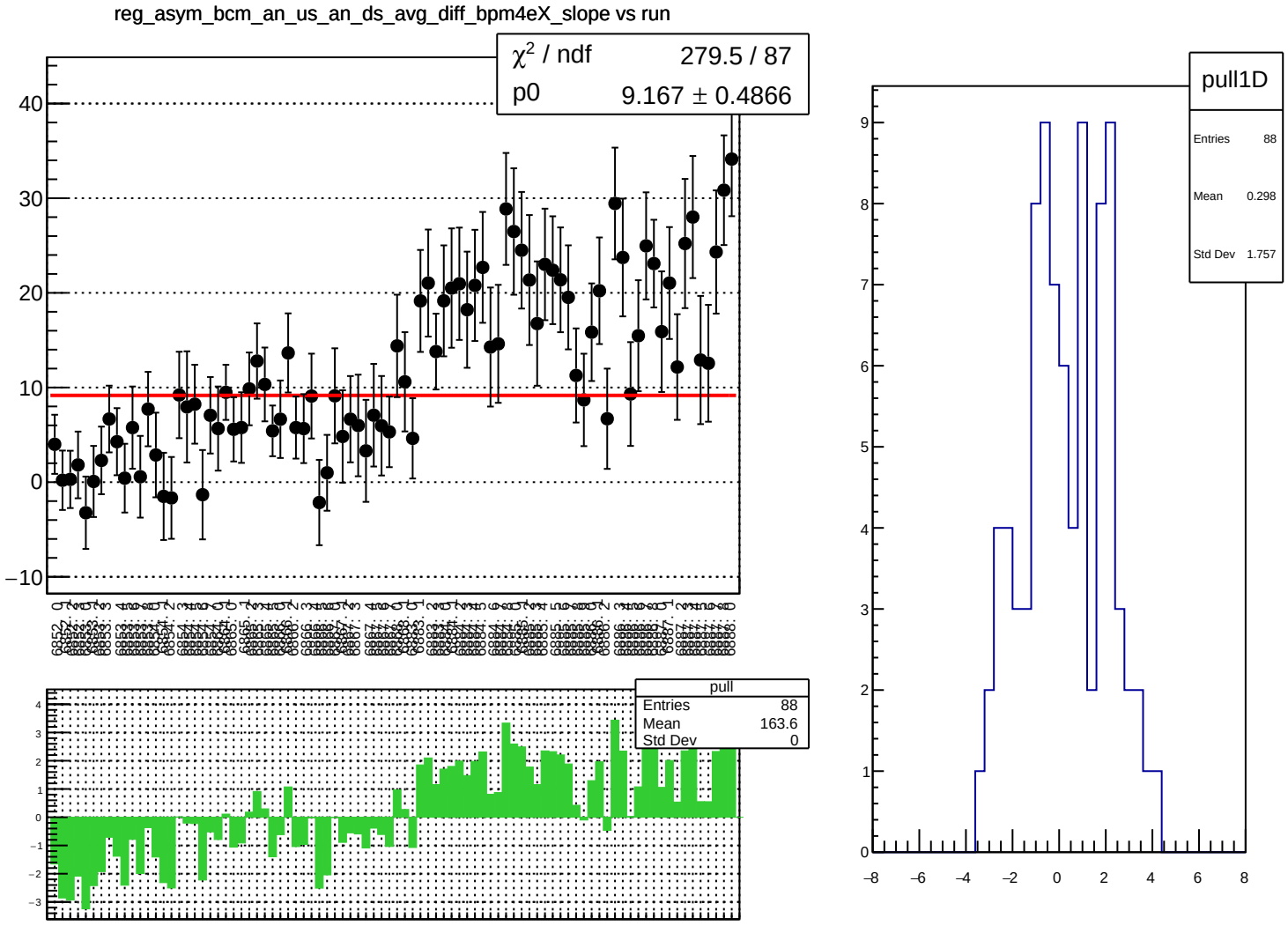

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 372.6 / 87
p0 −0.004999 ± 0.1165
pull
Entries 88
Mean 94.18
Std Dev 0
pull1D
Entries 88
Mean −0.4037
Std Dev 2.018

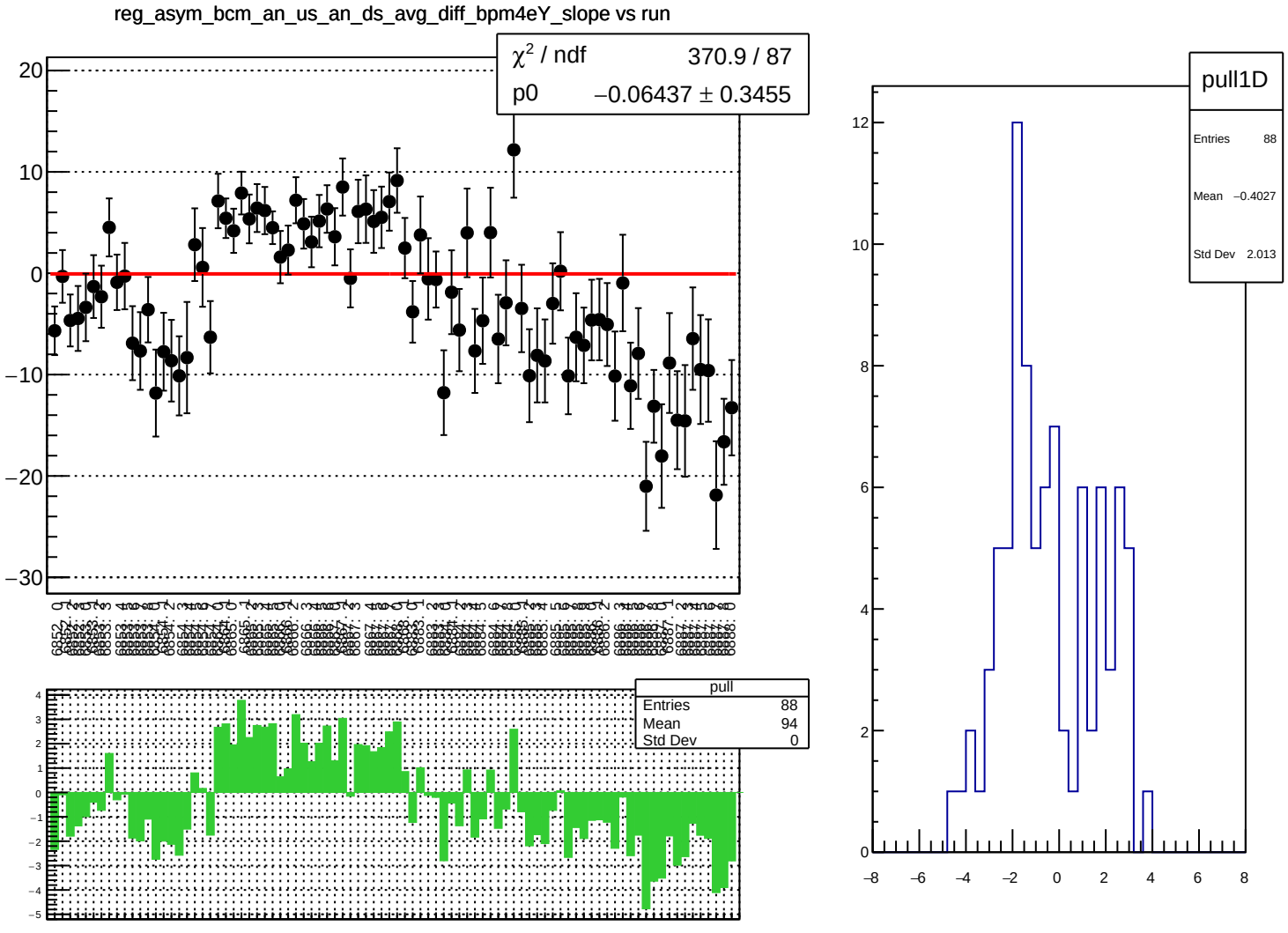

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 126.4 / 87
p0 −0.003776 ± 0.006508
pull
Entries 88
Mean 118.1
Std Dev 0
pull1D
Entries 88
Mean 0.1162
Std Dev 1.193

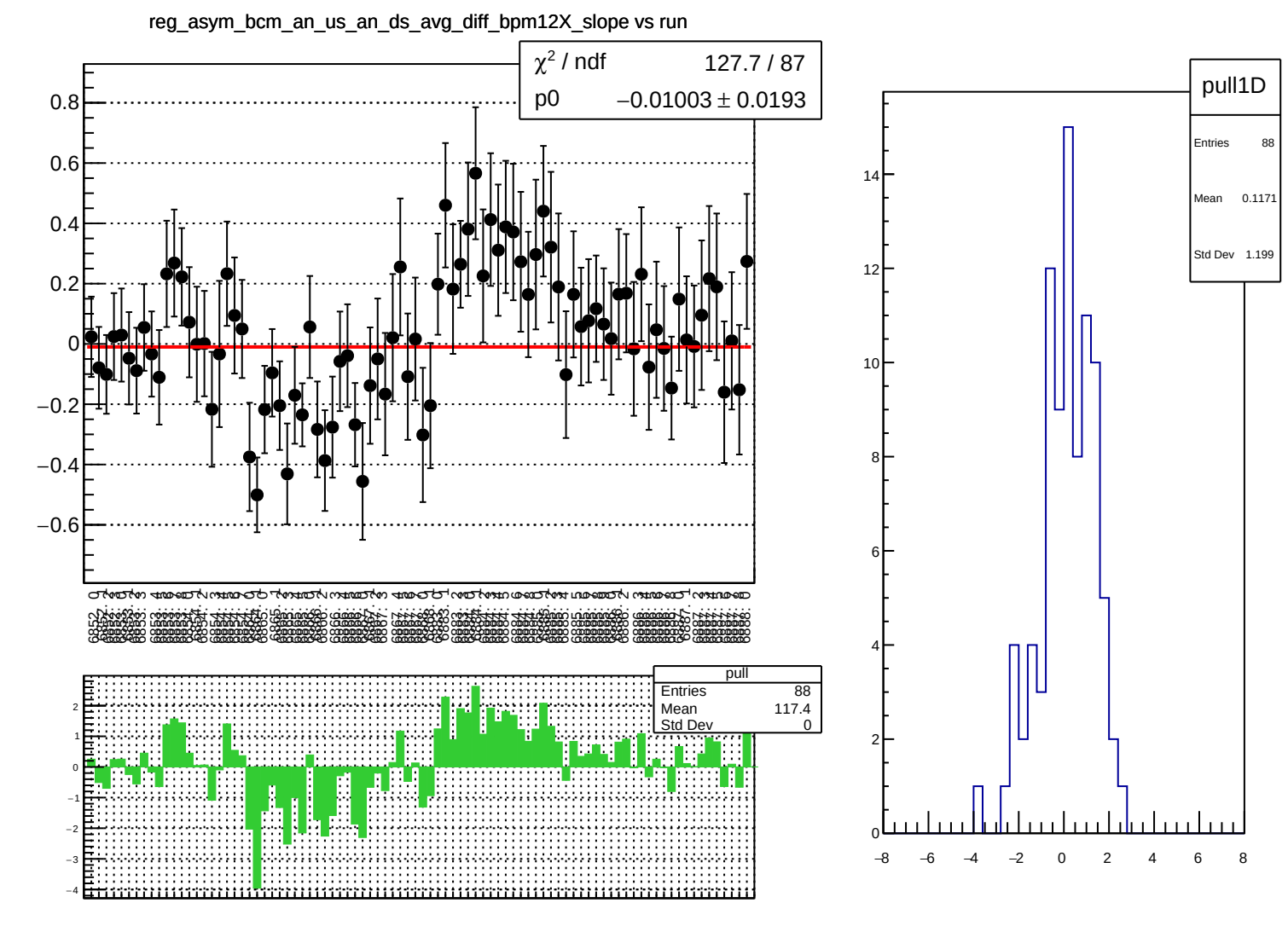

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 264 / 87
p0 −10.05 ± 0.5125
pull
Entries 88
Mean 175
Std Dev 0
pull1D
Entries 88
Mean −0.2609
Std Dev 1.712

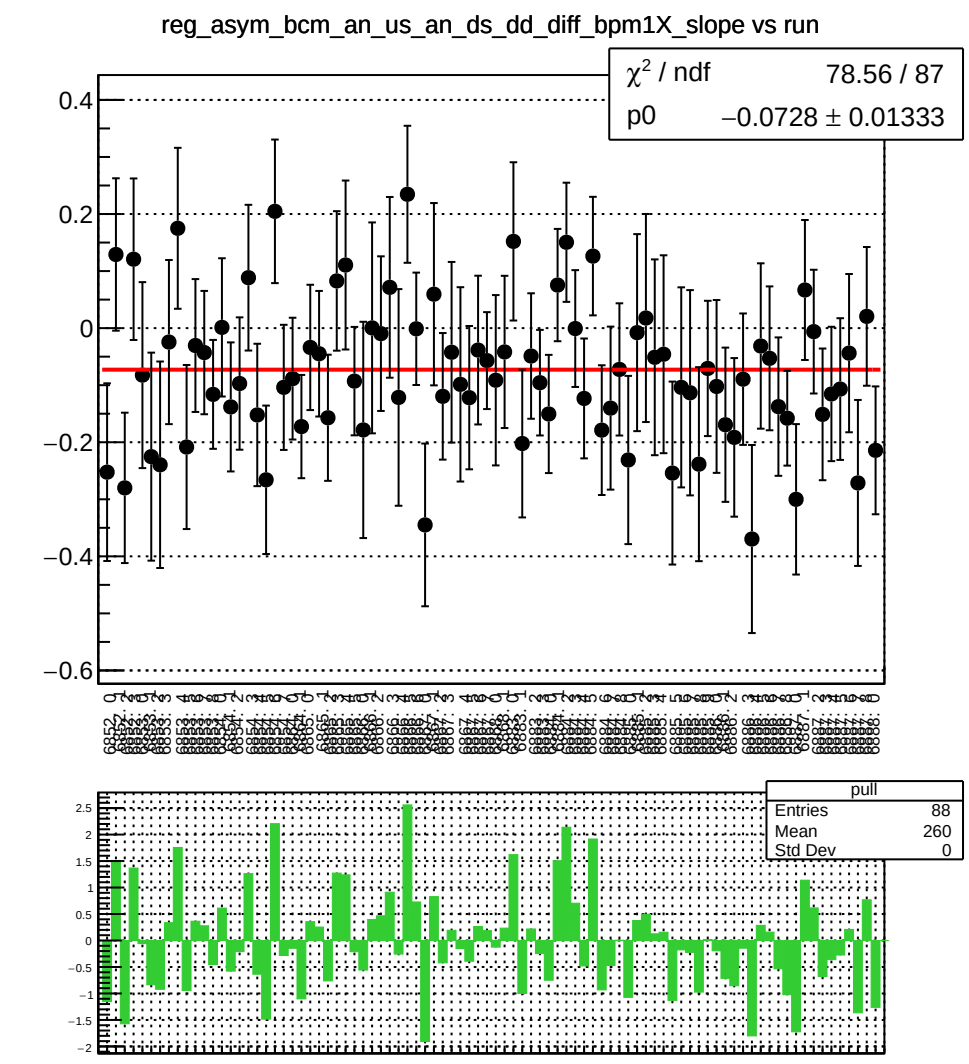

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 299.3 / 87
p0 −0.1666 ± 0.2671
pull
Entries 88
Mean 86.96
Std Dev 15.84

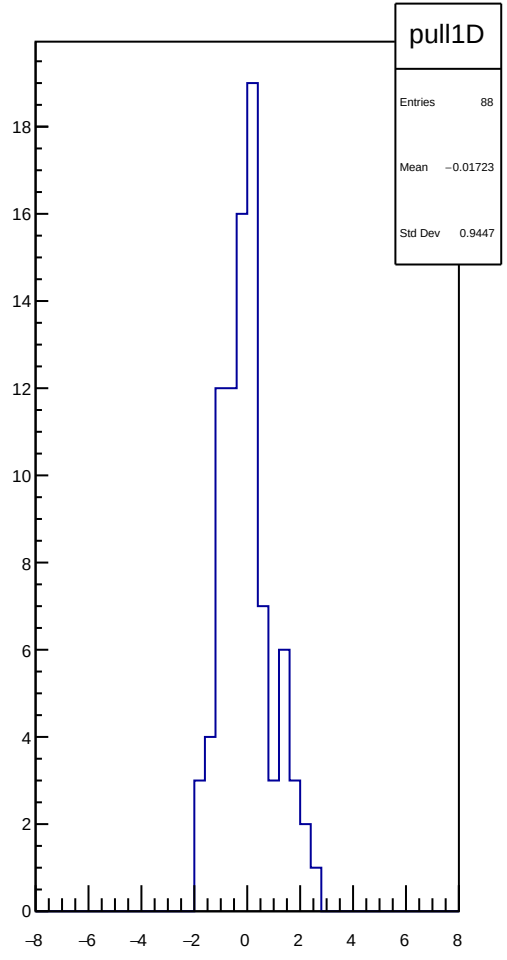

pull1D
Entries 88
Mean 0.3954
Std Dev 1.801

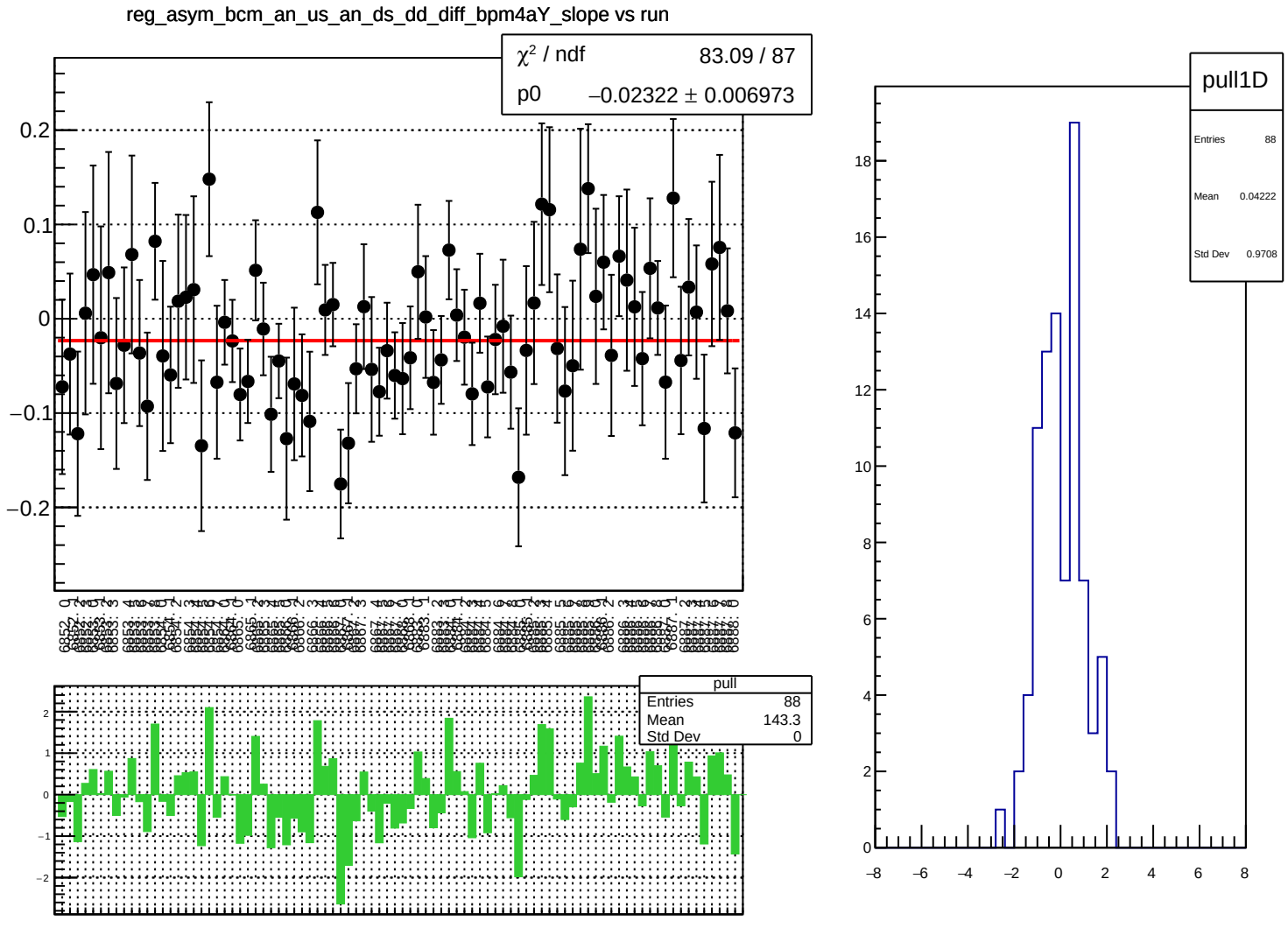

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 279.5 / 87
p0 9.167 ± 0.4866
pull
Entries 88
Mean 163.6
Std Dev 0
pull1D
Entries 88
Mean 0.298
Std Dev 1.757

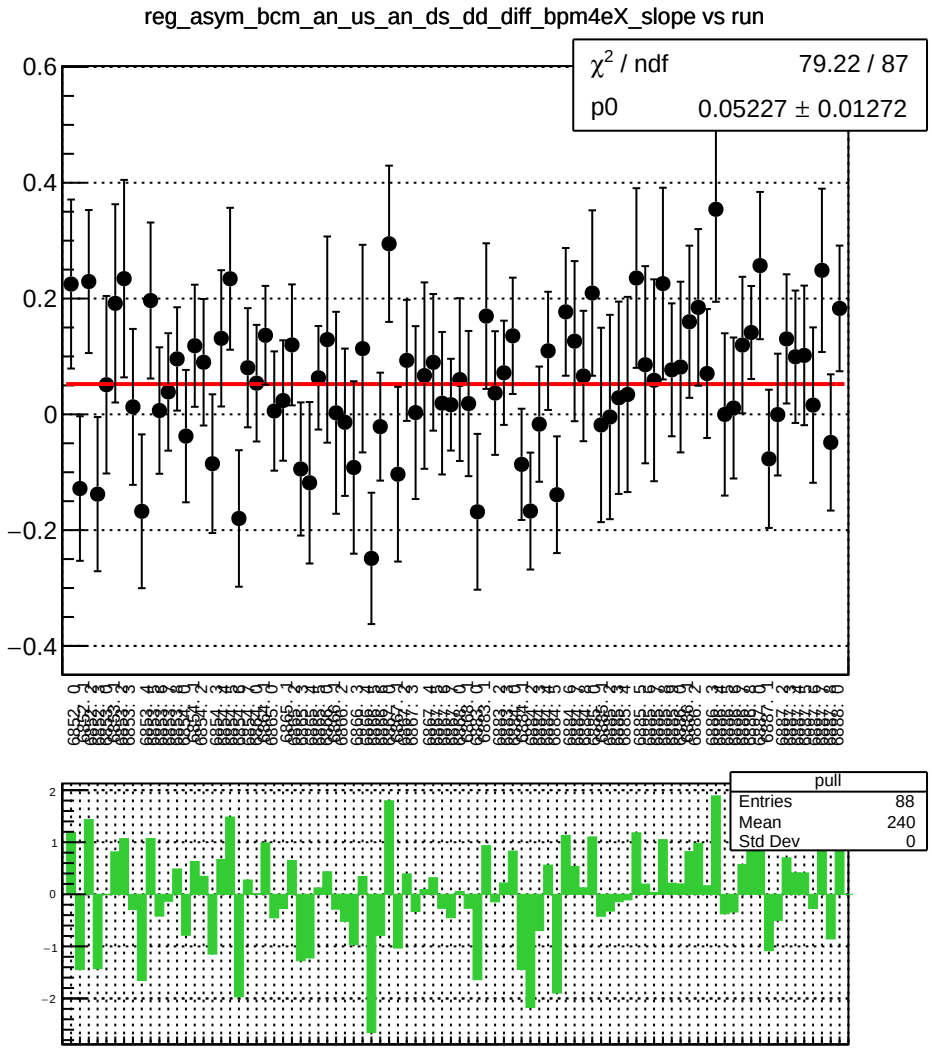

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 370.9 / 87
p0 −0.06437 ± 0.3455
pull
Entries 88
Mean 94
Std Dev 0
pull1D
Entries 88
Mean −0.4027
Std Dev 2.013

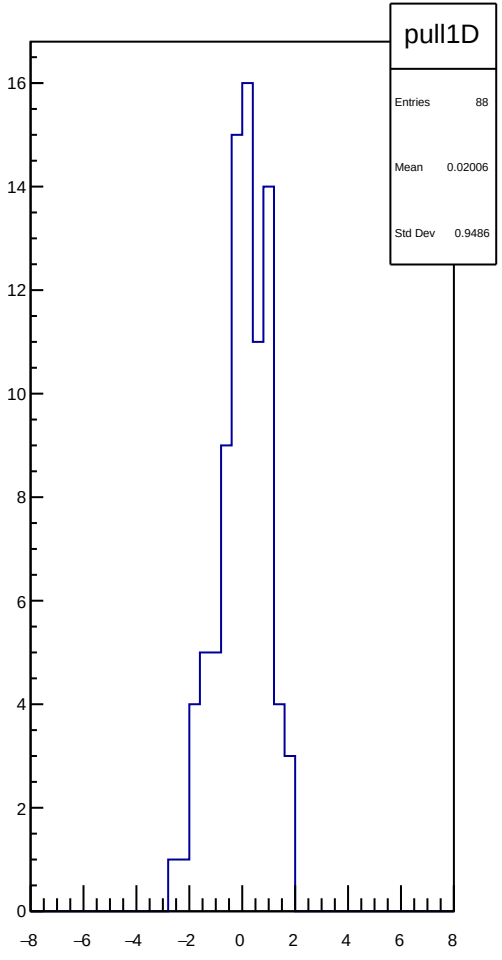

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 127.7 / 87
p0 −0.01003 ± 0.0193
pull
Entries 88
Mean 117.4
Std Dev 0
pull1D
Entries 88
Mean 0.1171
Std Dev 1.199

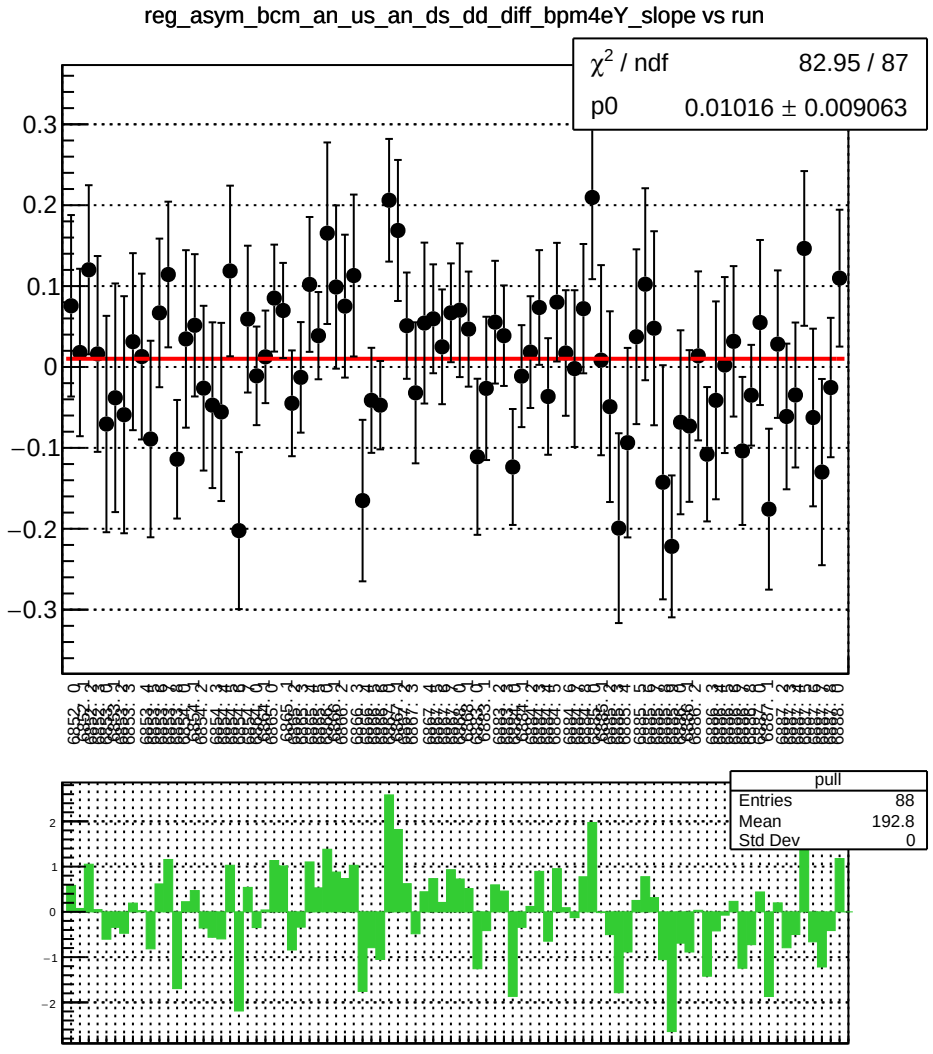

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 78.56 / 87
p0 −0.0728 ± 0.01333
pull
Entries 88
Mean 260
Std Dev 0

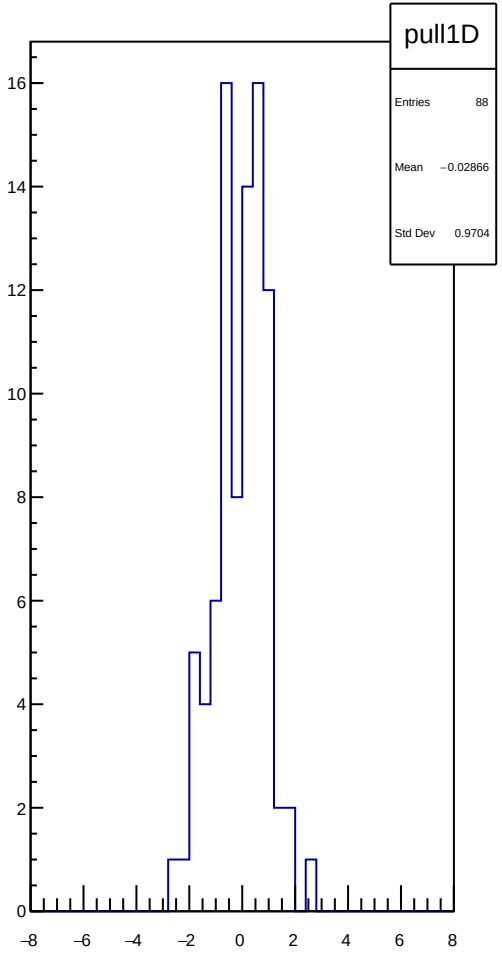

pull1D
Entries 88
Mean −0.01723
Std Dev 0.9447

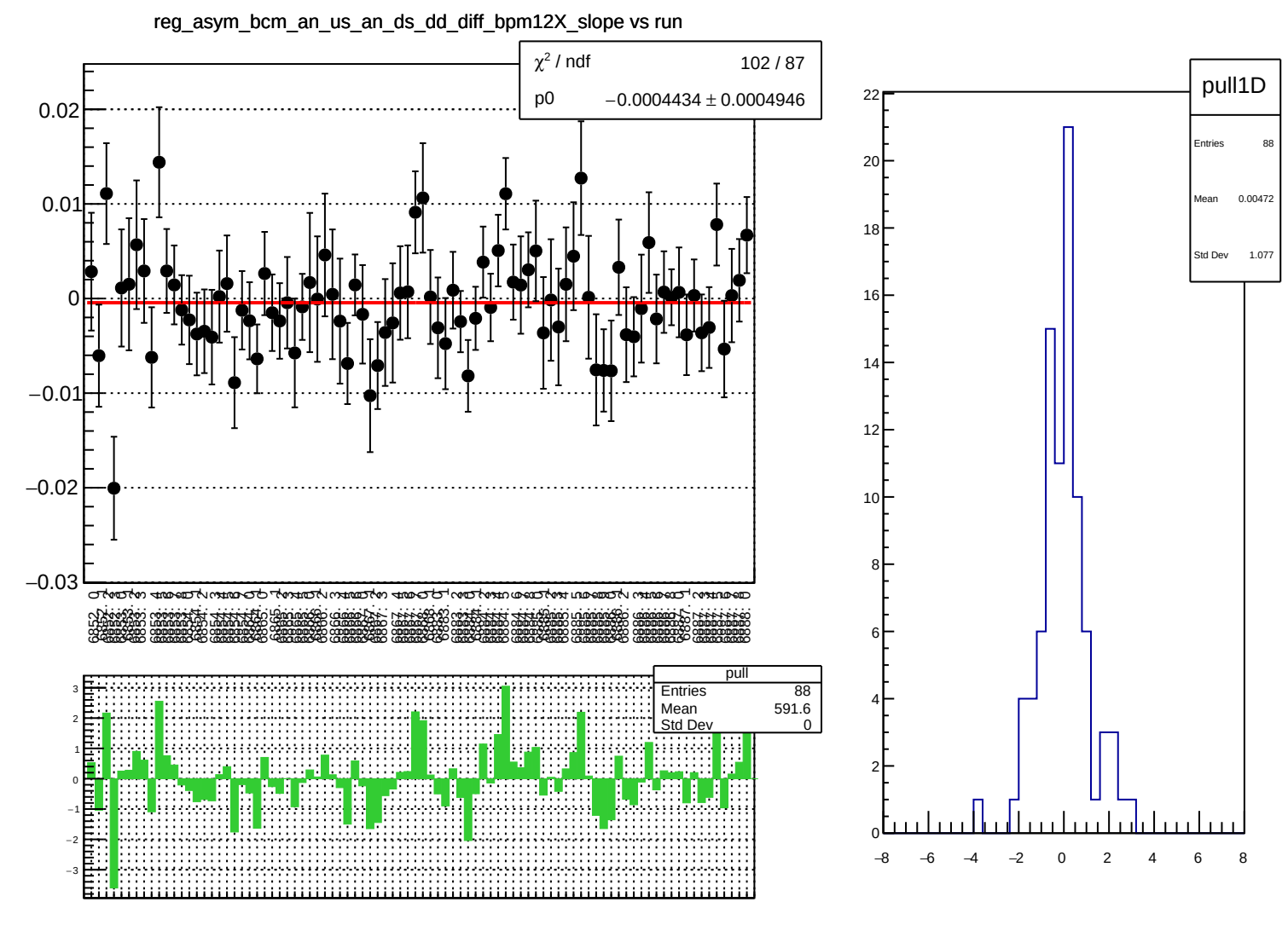

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.09 / 87
p0 −0.02322 ± 0.006973
0.2
0.1
0
−0.1
−0.2
pull
Entries 88
Mean 143.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 88
Mean 0.04222
Std Dev 0.9708
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

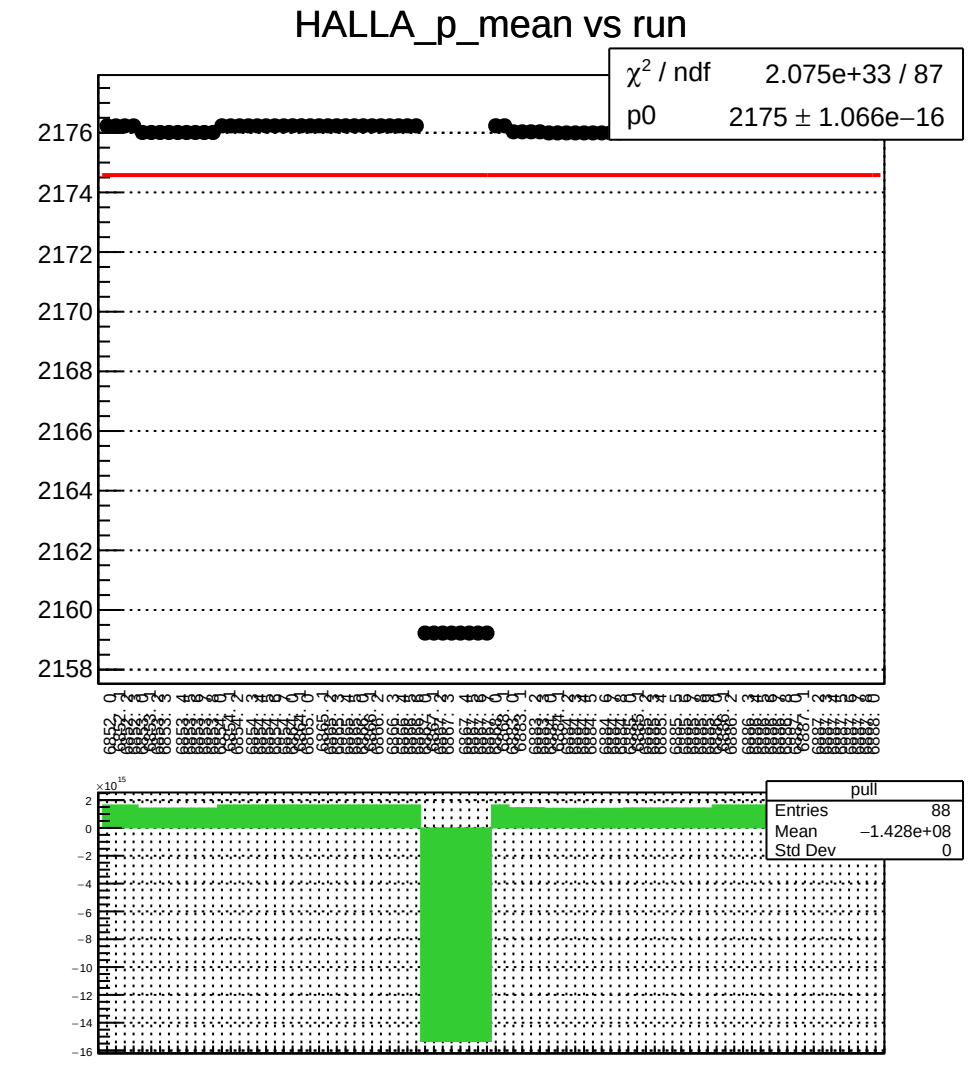

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 79.22 / 87
p0 0.05227 ± 0.01272
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 88
Mean 240
Std Dev 0
2
1
0
−1
−2

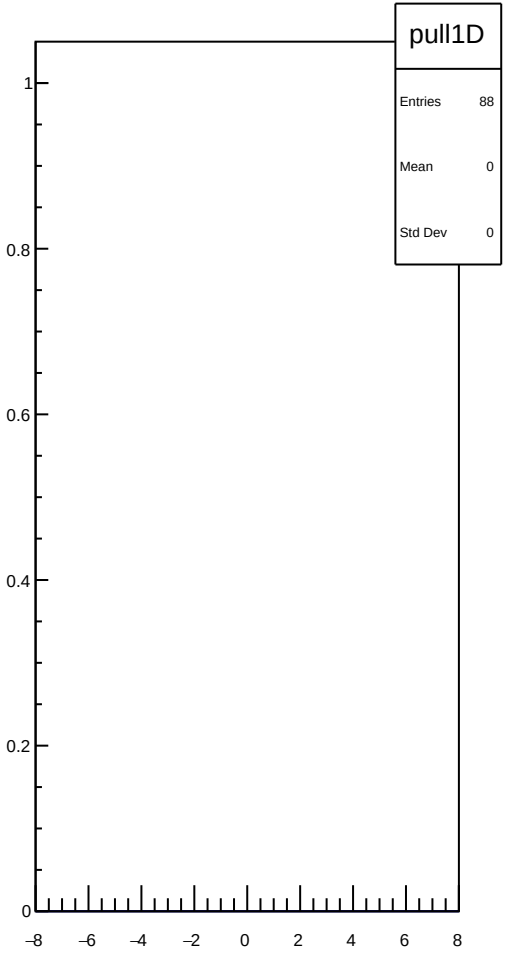

pull1D
Entries 88
Mean 0.02006
Std Dev 0.9486
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

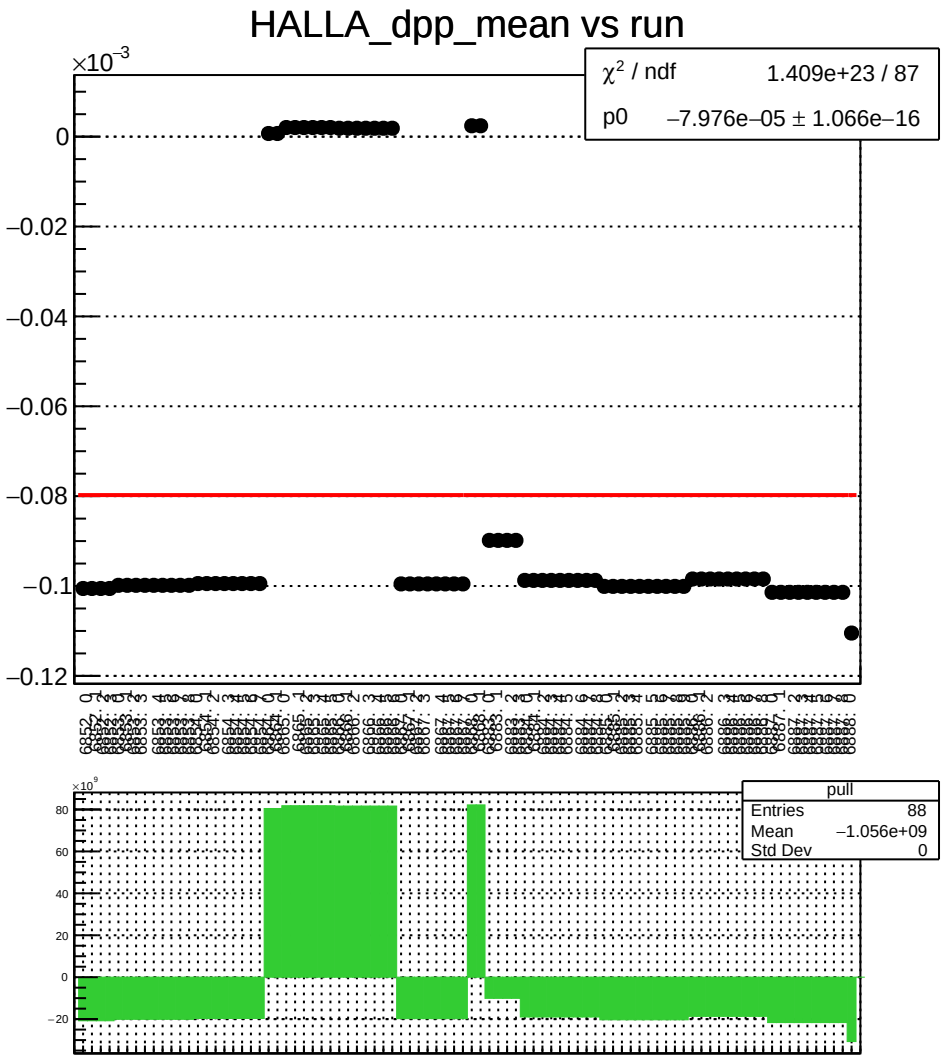

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.95 / 87
p0 0.01016 ± 0.009063
pull
Entries 88
Mean 192.8
Std Dev 0

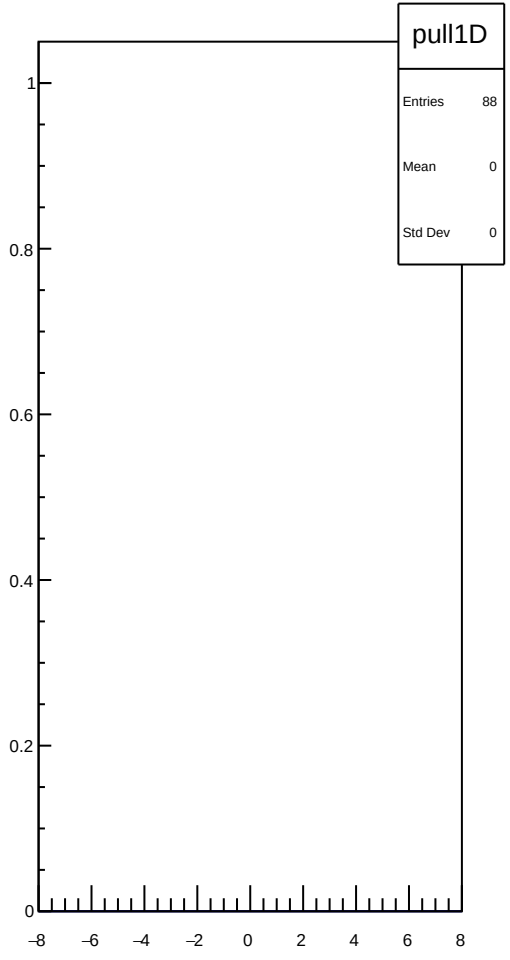

pull1D
Entries 88
Mean −0.02866
Std Dev 0.9704

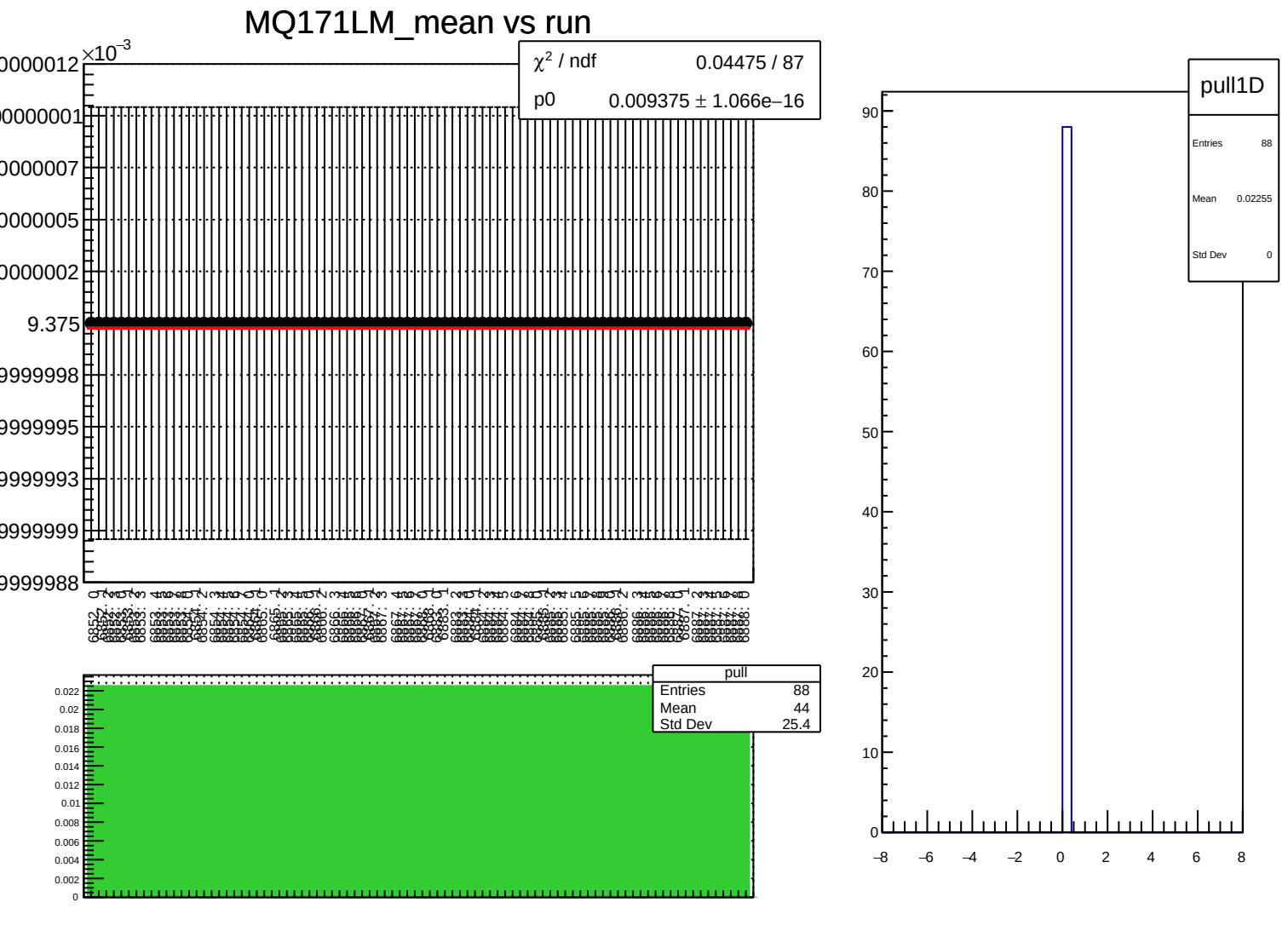

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 102 / 87
p0 −0.0004434 ± 0.0004946
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 88
Mean 591.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 88
Mean 0.00472
Std Dev 1.077
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

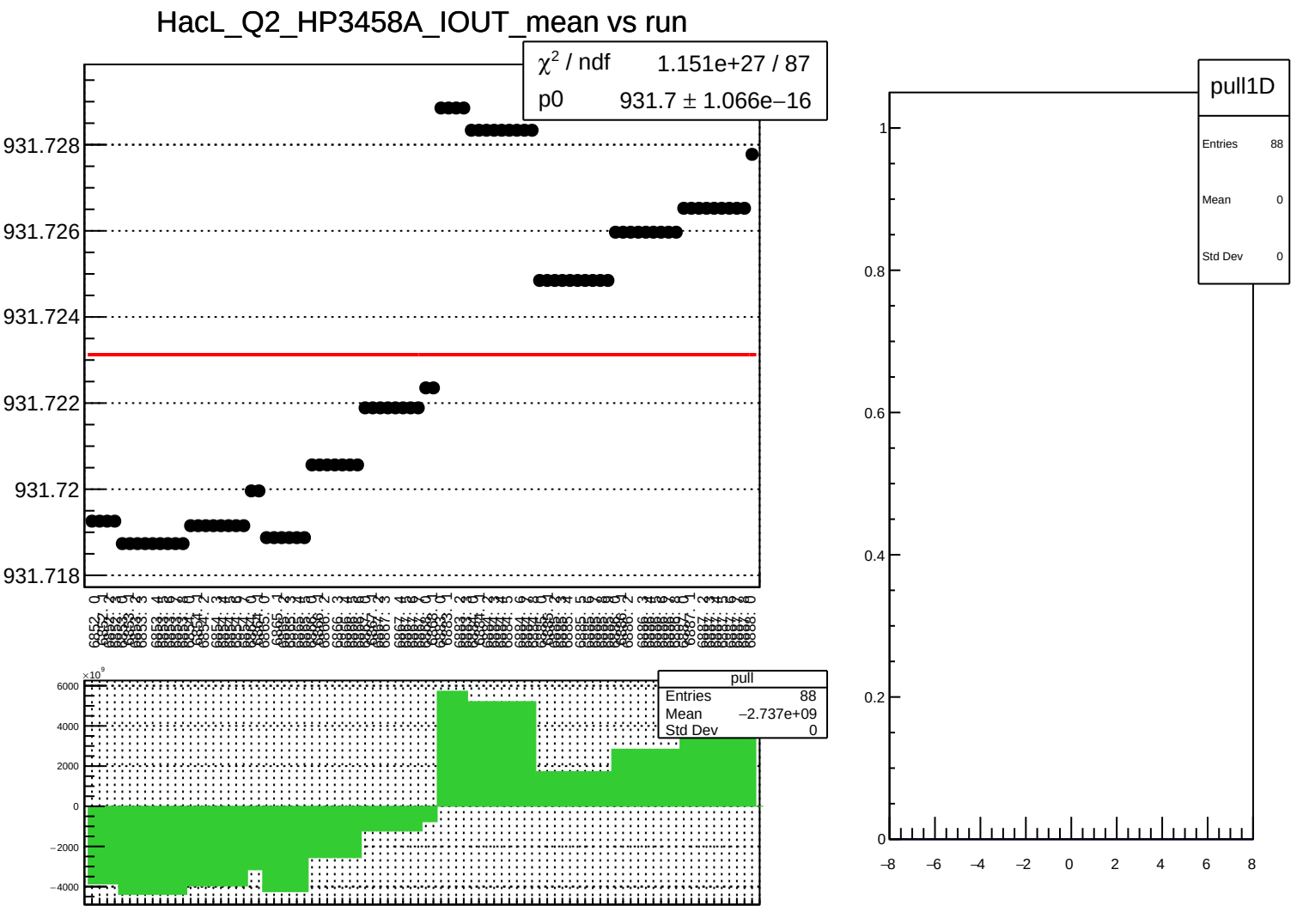

HALLA_p_mean vs run
χ² / ndf 2.075e+33 / 87
p0 2175 ± 1.066e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
−16
pull
Entries 88
Mean −1.428e+08
Std Dev 0

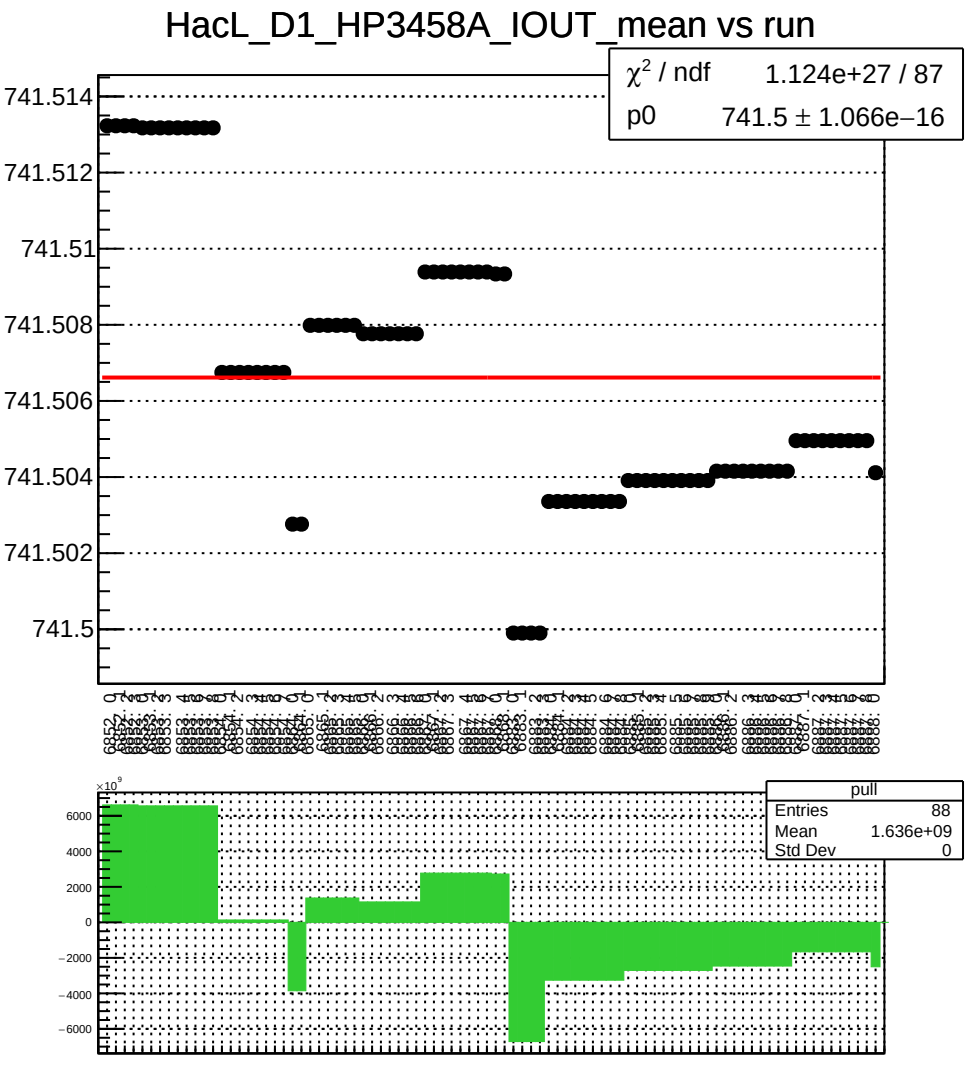

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

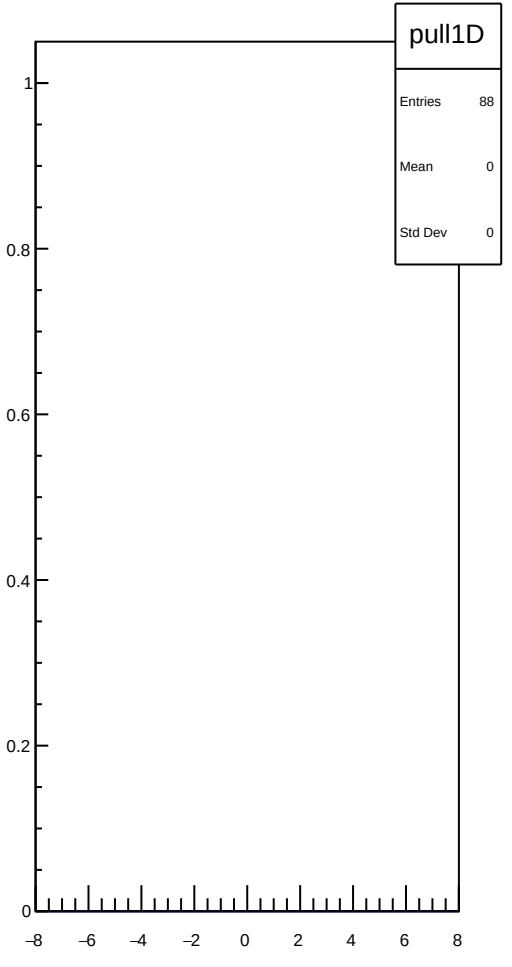

HALLA_dpp_mean vs run
χ² / ndf 1.409e+23 / 87
p0 −7.976e−05 ± 1.066e−16
×10⁻³
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 88
Mean −1.056e+09
Std Dev 0
×10⁹
80
60
40
20
0
−20

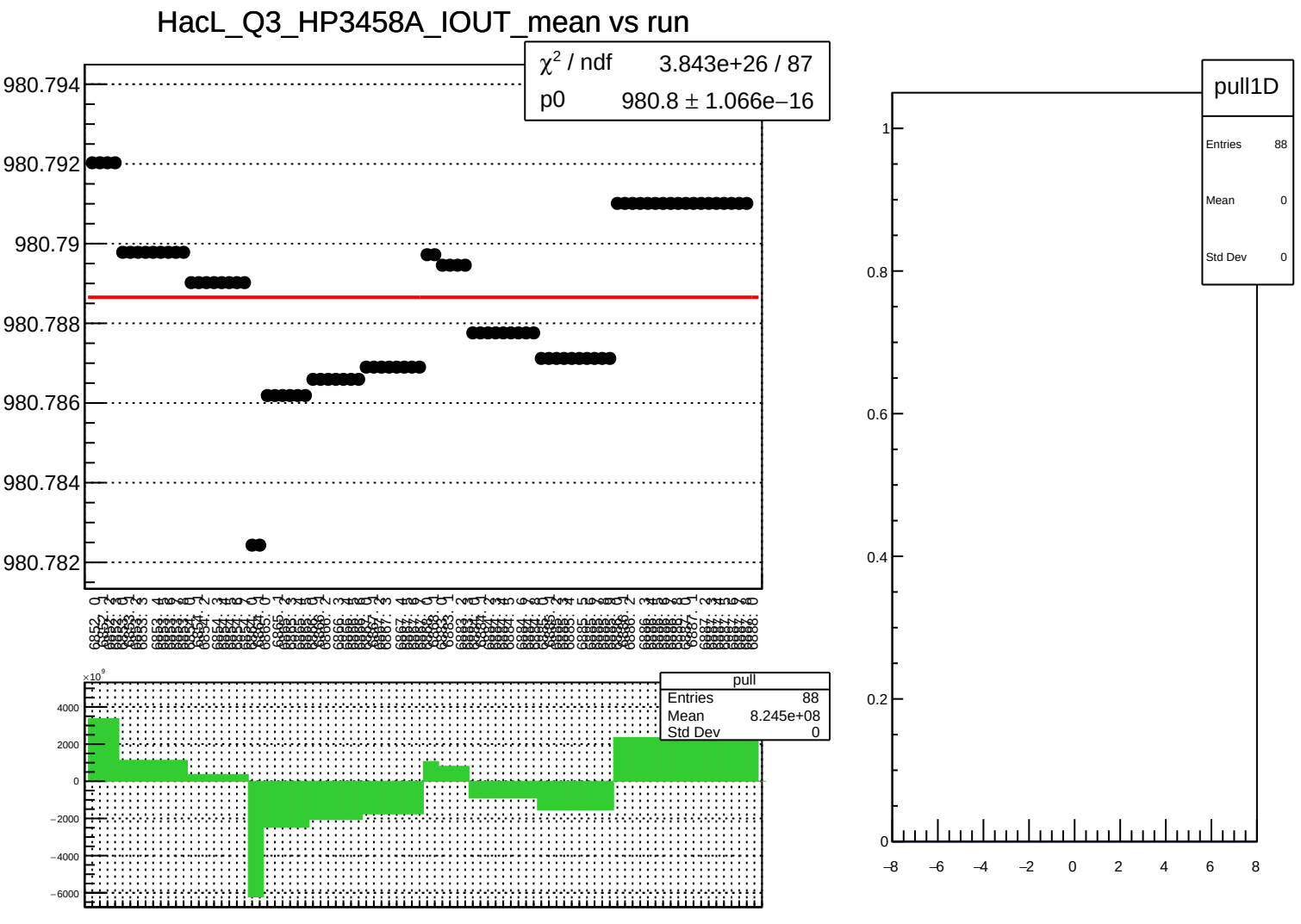

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

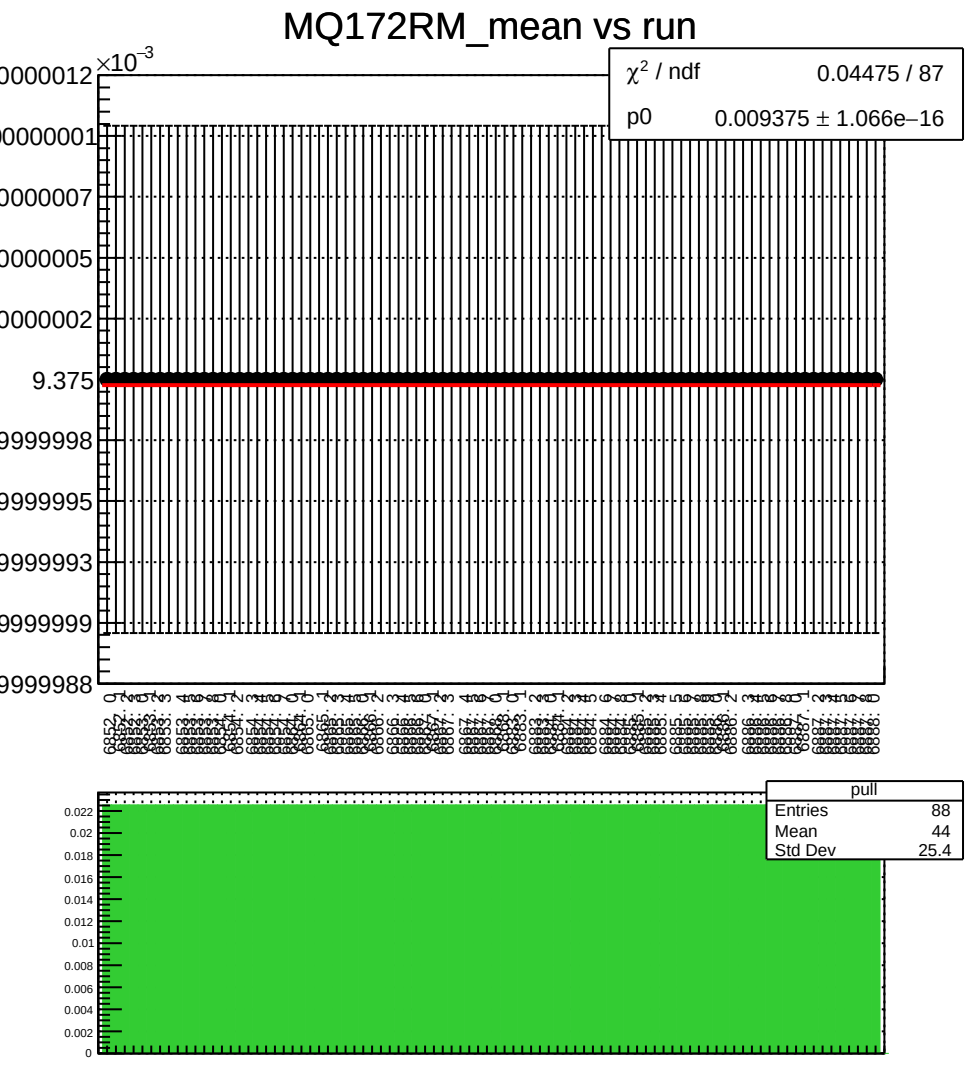

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
9.375
pull
Entries 88
Mean 44
Std Dev 25.4
pull1D
Entries 88
Mean 0.02255
Std Dev 0

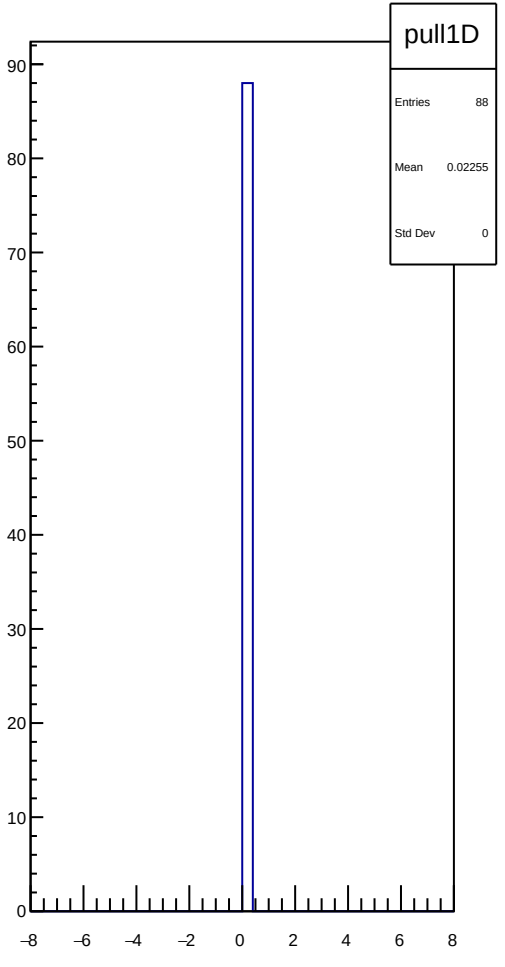

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.151e+27 / 87
p0 931.7 ± 1.066e−16
931.728
931.726
931.724
931.722
931.72
931.718
×10⁹
6000
4000
2000
0
−2000
−4000
pull
Entries 88
Mean −2.737e+09
Std Dev 0
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

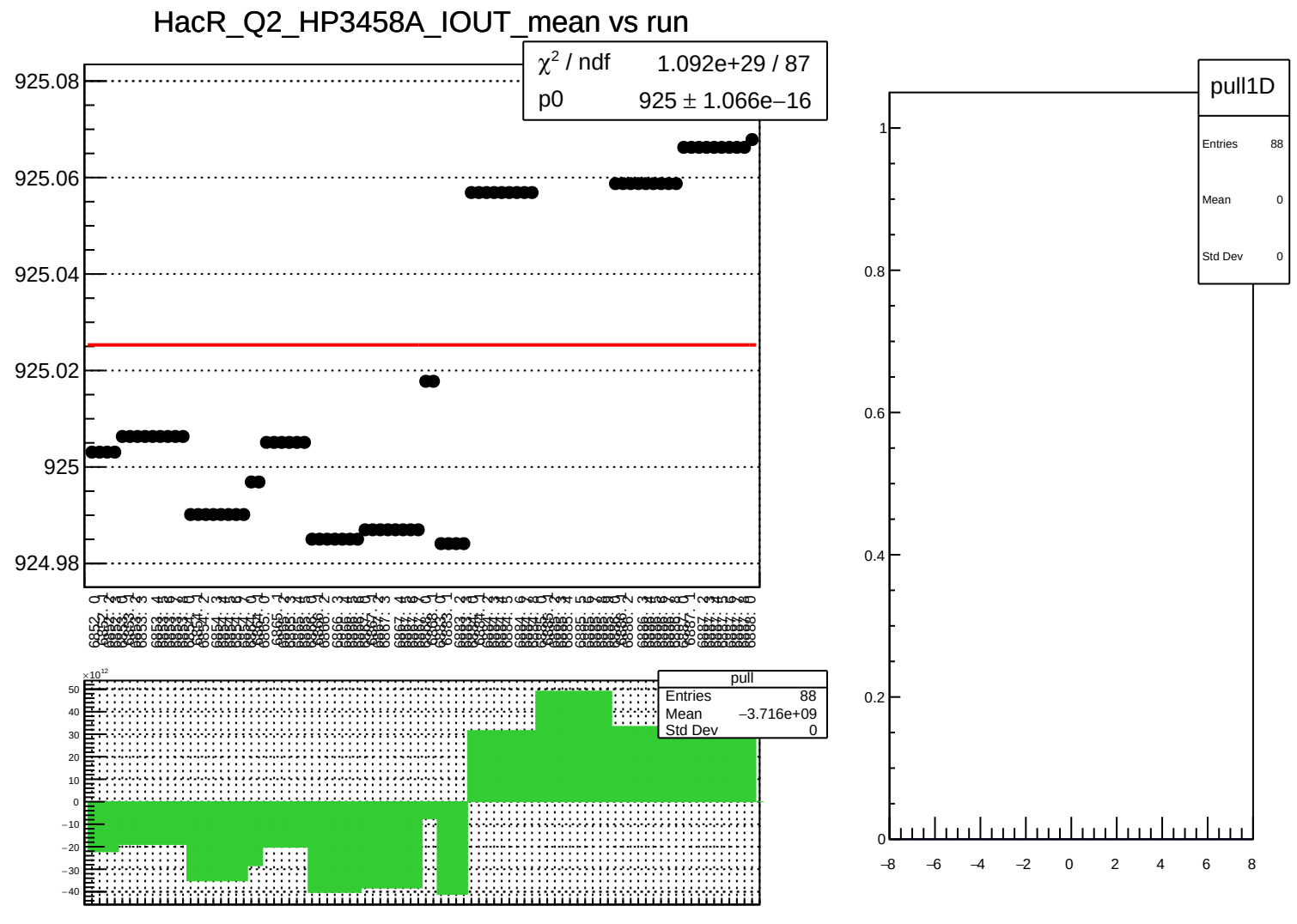

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.124e+27 / 87
p0 741.5 ± 1.066e−16
741.514
741.512
741.51
741.508
741.506
741.504
741.502
741.5
pull
Entries 88
Mean 1.636e+09
Std Dev 0
×10⁹
6000
4000
2000
0
−2000
−4000
−6000

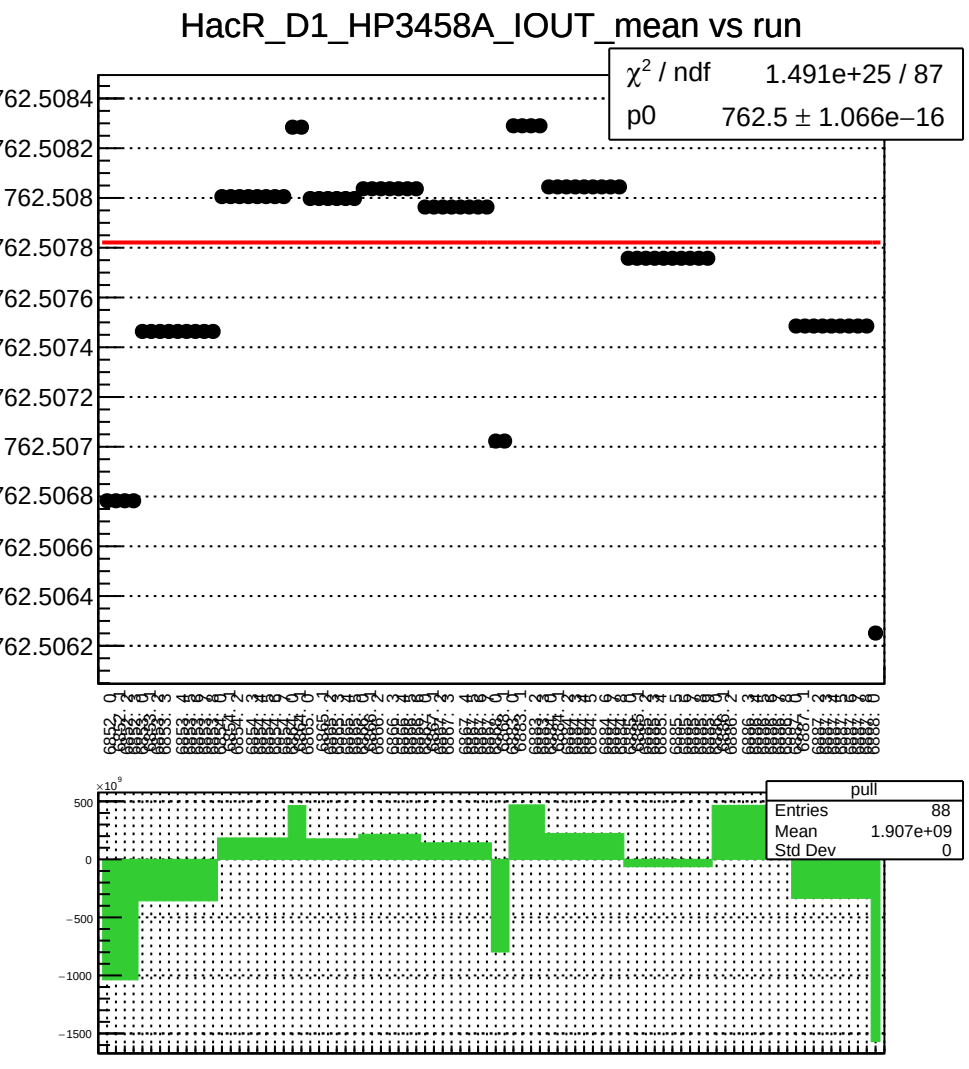

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

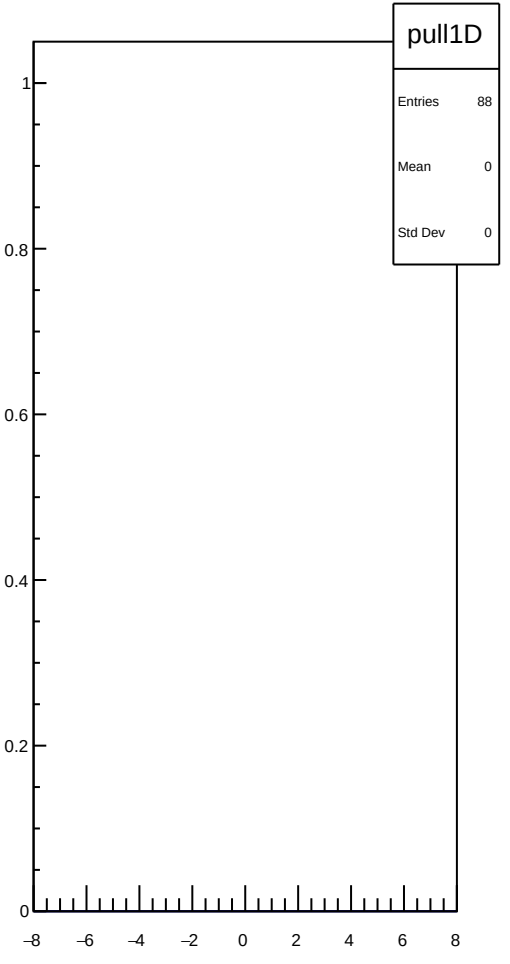

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.843e+26 / 87
p0 980.8 ± 1.066e−16
980.794
980.792
980.79
980.788
980.786
980.784
980.782
pull
Entries 88
Mean 8.245e+08
Std Dev 0
×10⁹
4000
2000
0
−2000
−4000
−6000
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

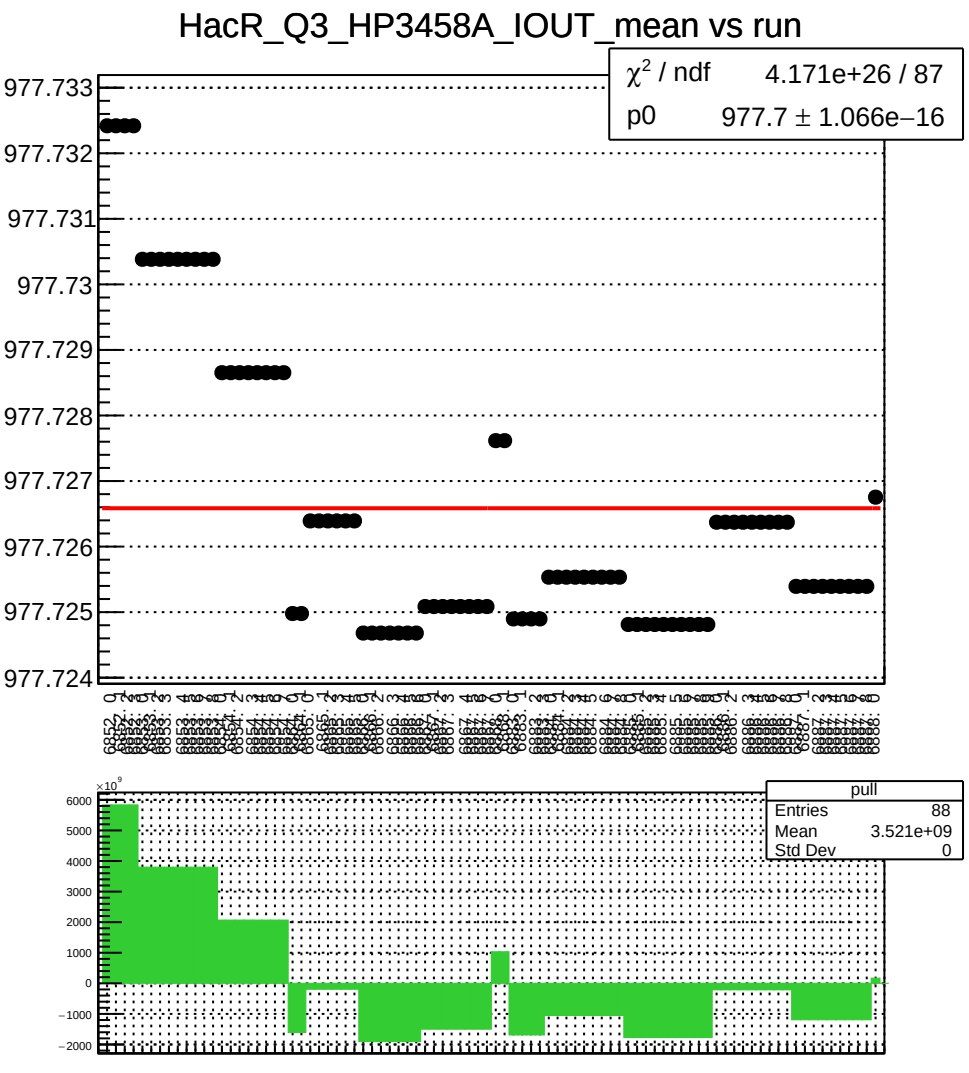

MQ172RM_mean vs run
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
pull
Entries 88
Mean 44
Std Dev 25.4

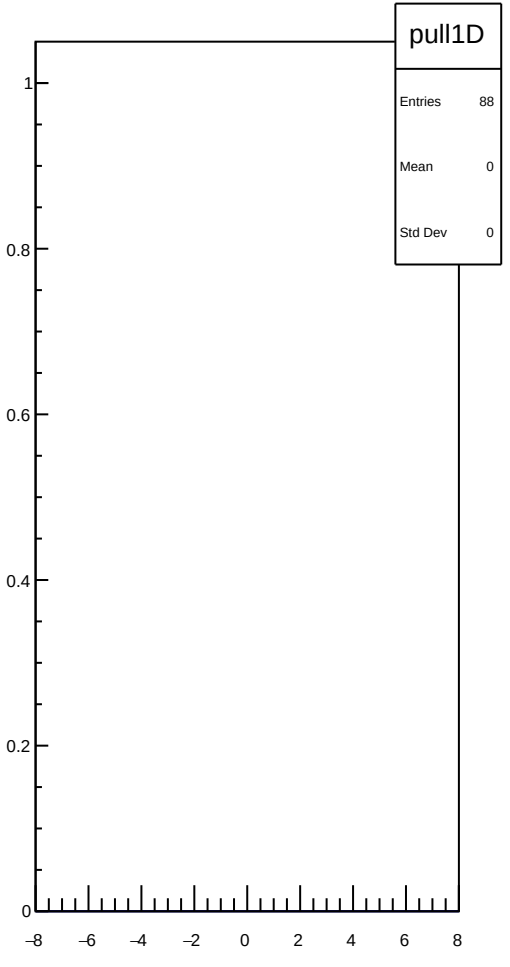

pull1D
Entries 88
Mean 0.02255
Std Dev 0

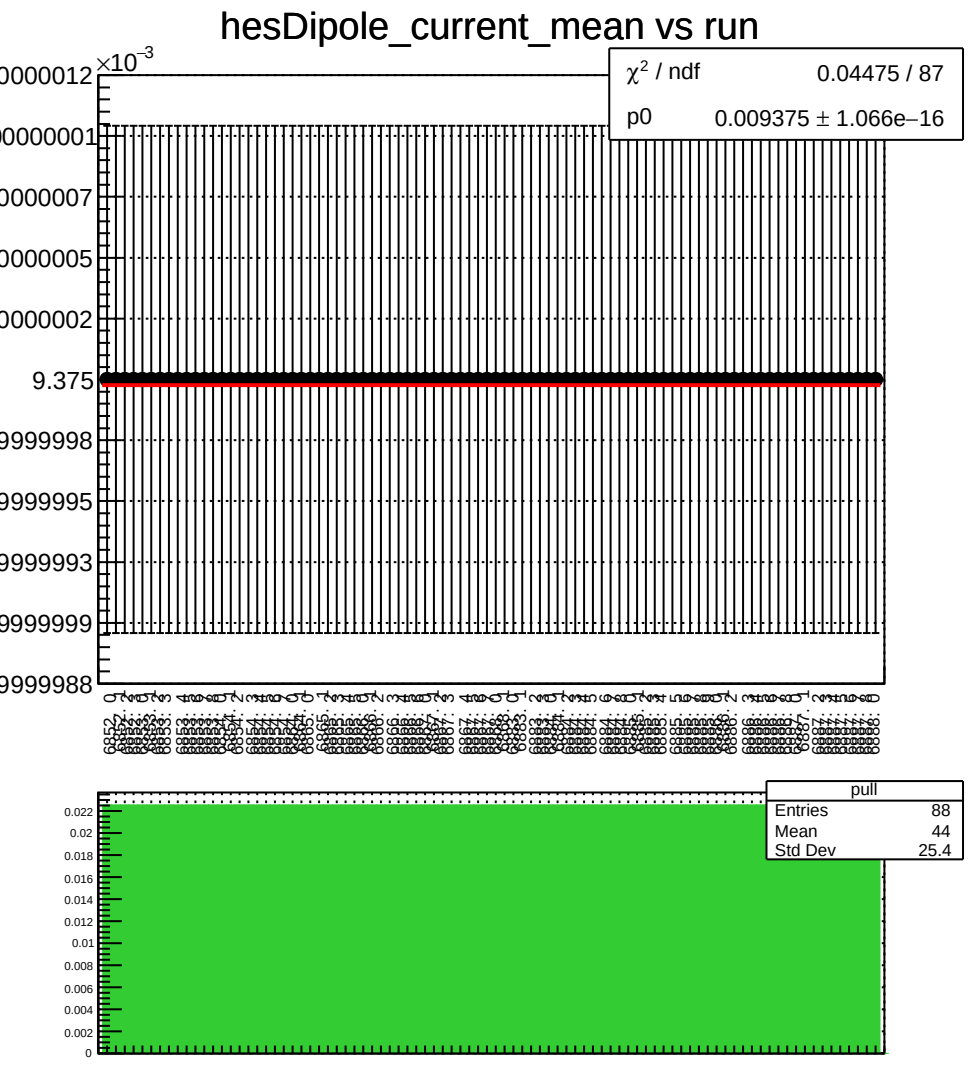

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.092e+29 / 87
p0 925 ± 1.066e−16
925.08
925.06
925.04
925.02
925
924.98
pull
Entries 88
Mean −3.716e+09
Std Dev 0
×10¹²
50
40
30
20
10
0
−10
−20
−30
−40
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

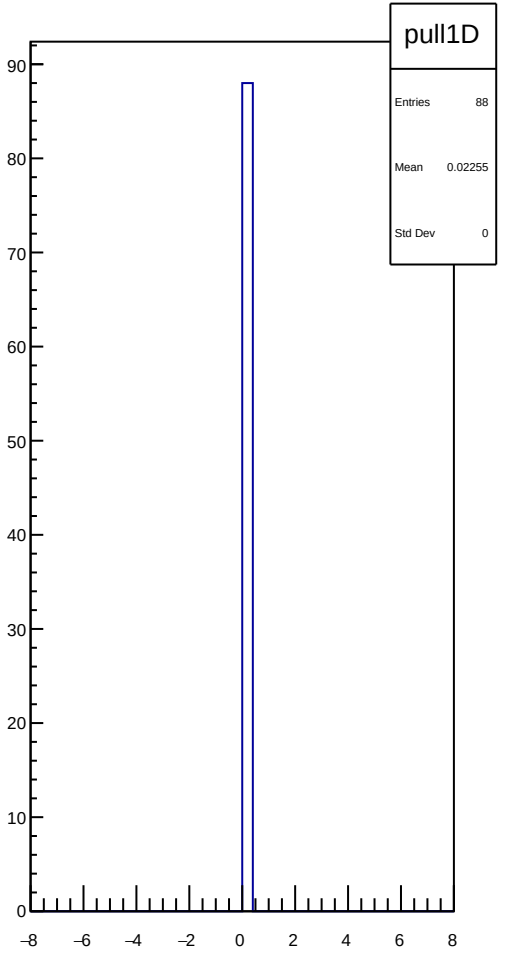

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.491e+25 / 87
p0 762.5 ± 1.066e−16
762.5084
762.5082
762.508
762.5078
762.5076
762.5074
762.5072
762.507
762.5068
762.5066
762.5064
762.5062
pull
Entries 88
Mean 1.907e+09
Std Dev 0
×10⁹
500
0
−500
−1000
−1500

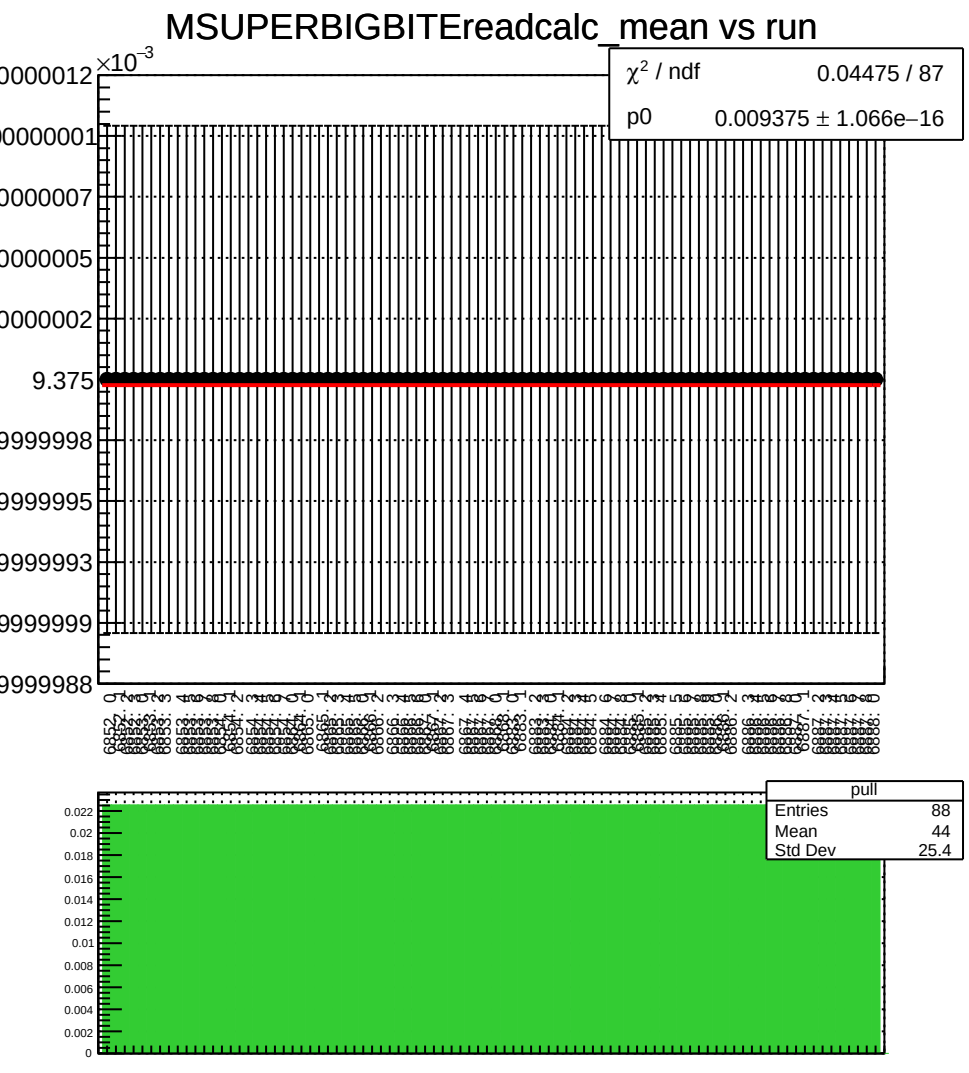

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

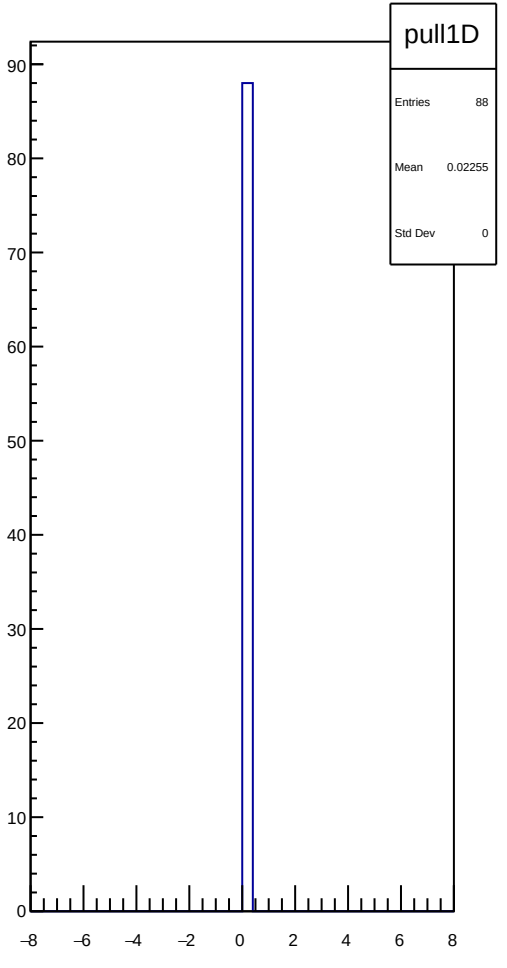

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 4.171e+26 / 87
p0 977.7 ± 1.066e−16
977.733
977.732
977.731
977.73
977.729
977.728
977.727
977.726
977.725
977.724
pull
Entries 88
Mean 3.521e+09
Std Dev 0
×10⁹
6000
5000
4000
3000
2000
1000
0
−1000
−2000

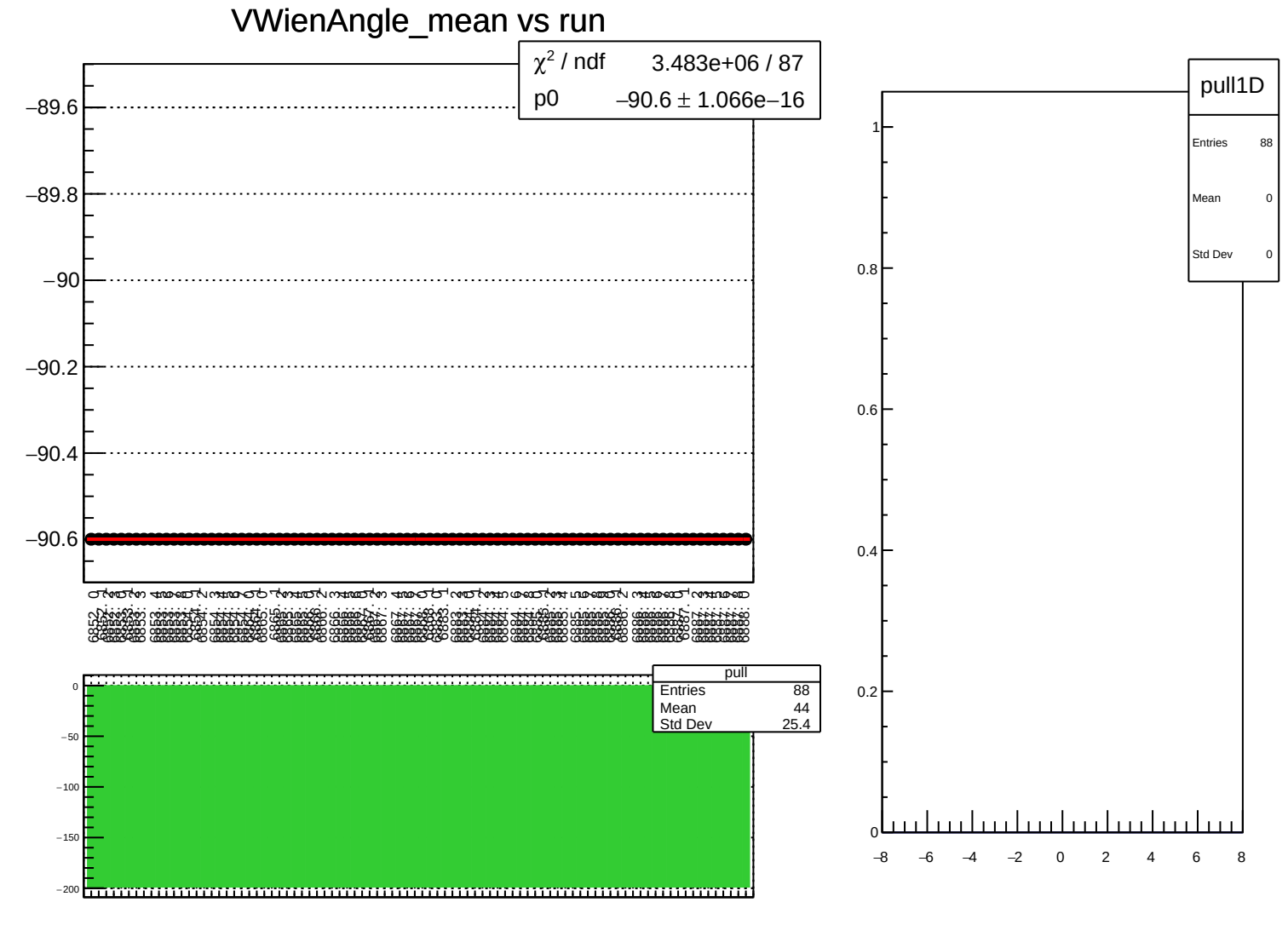

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

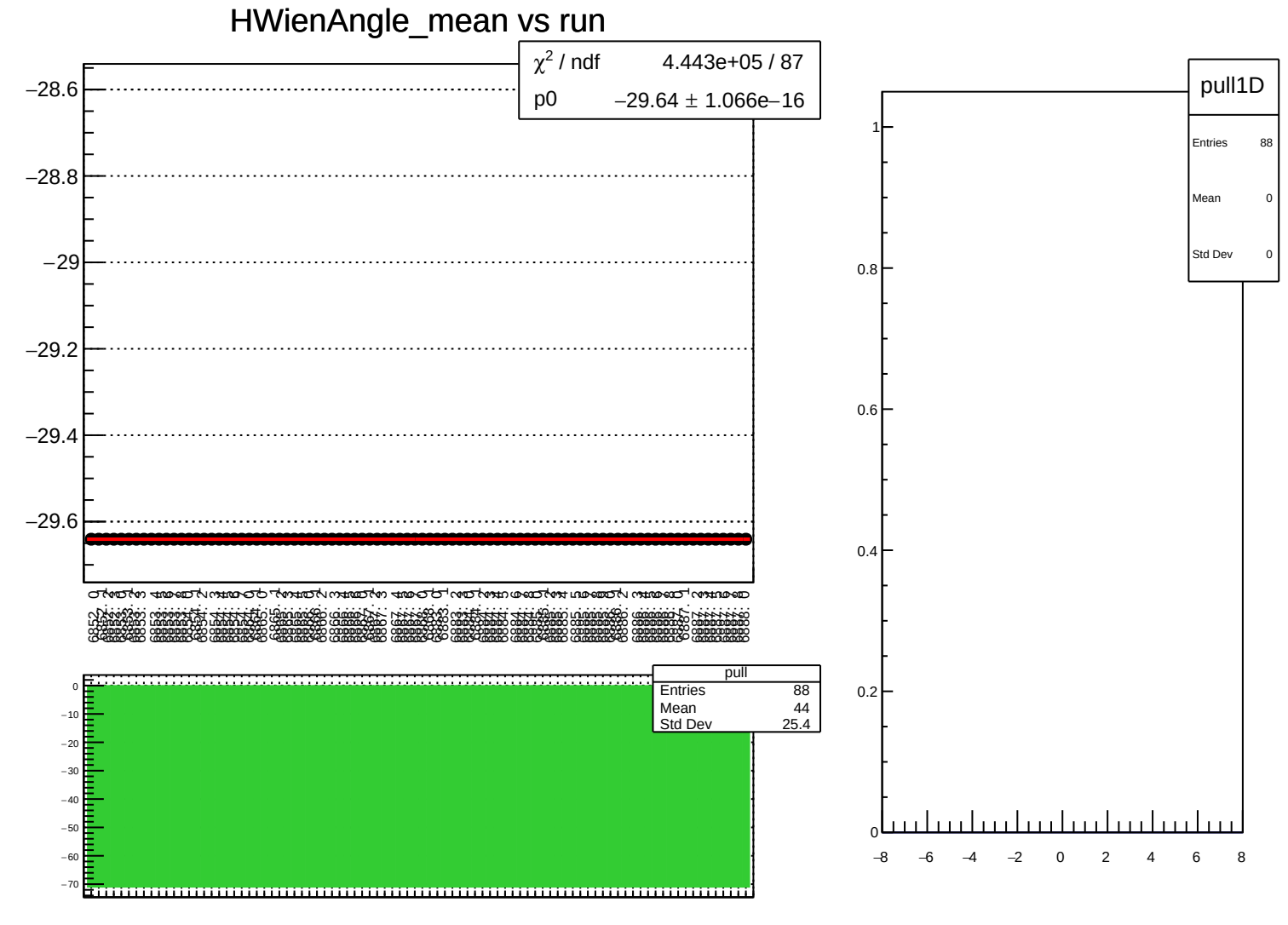

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
pull
Entries 88
Mean 44
Std Dev 25.4

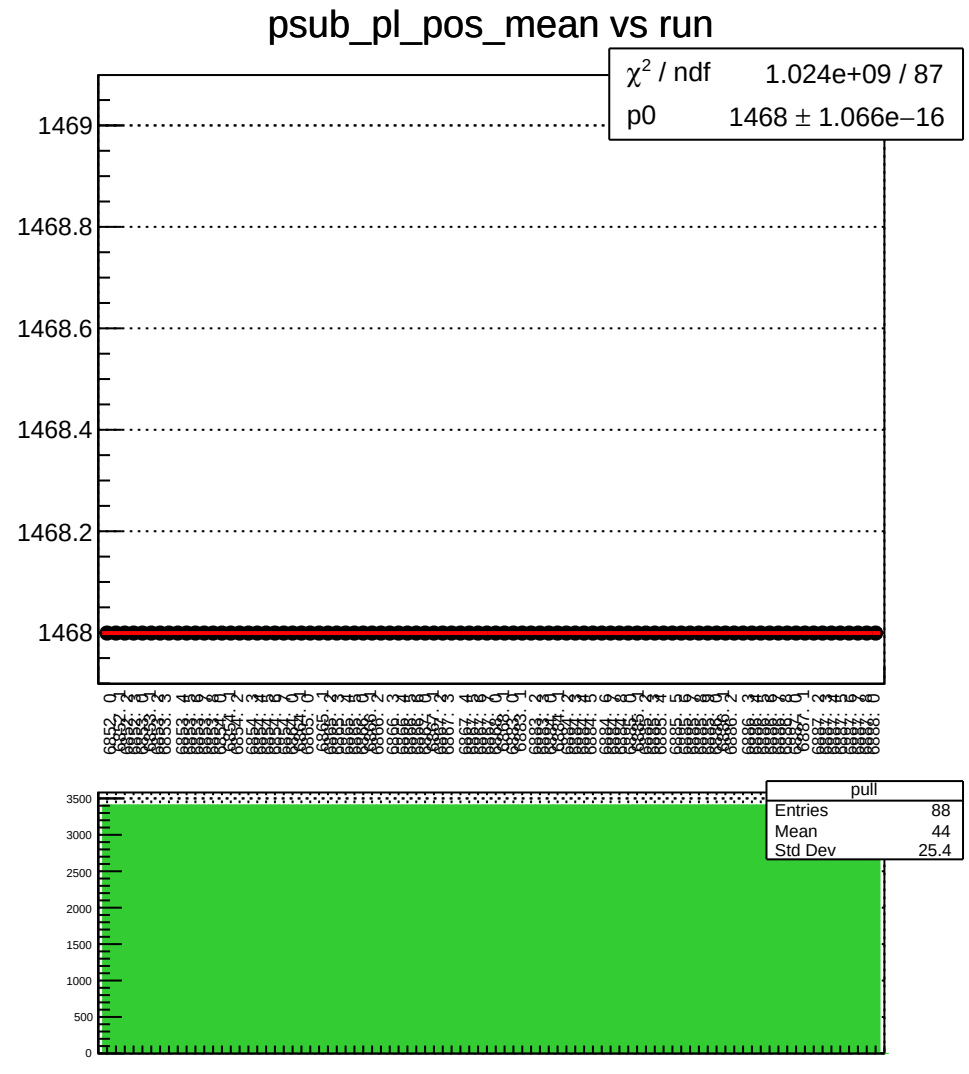

pull1D
Entries 88
Mean 0.02255
Std Dev 0

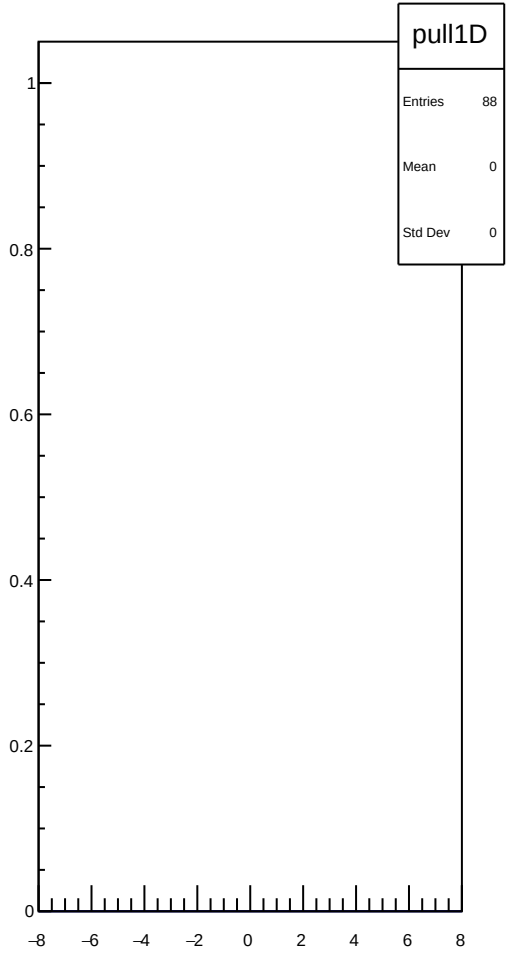

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
pull
Entries 88
Mean 44
Std Dev 25.4

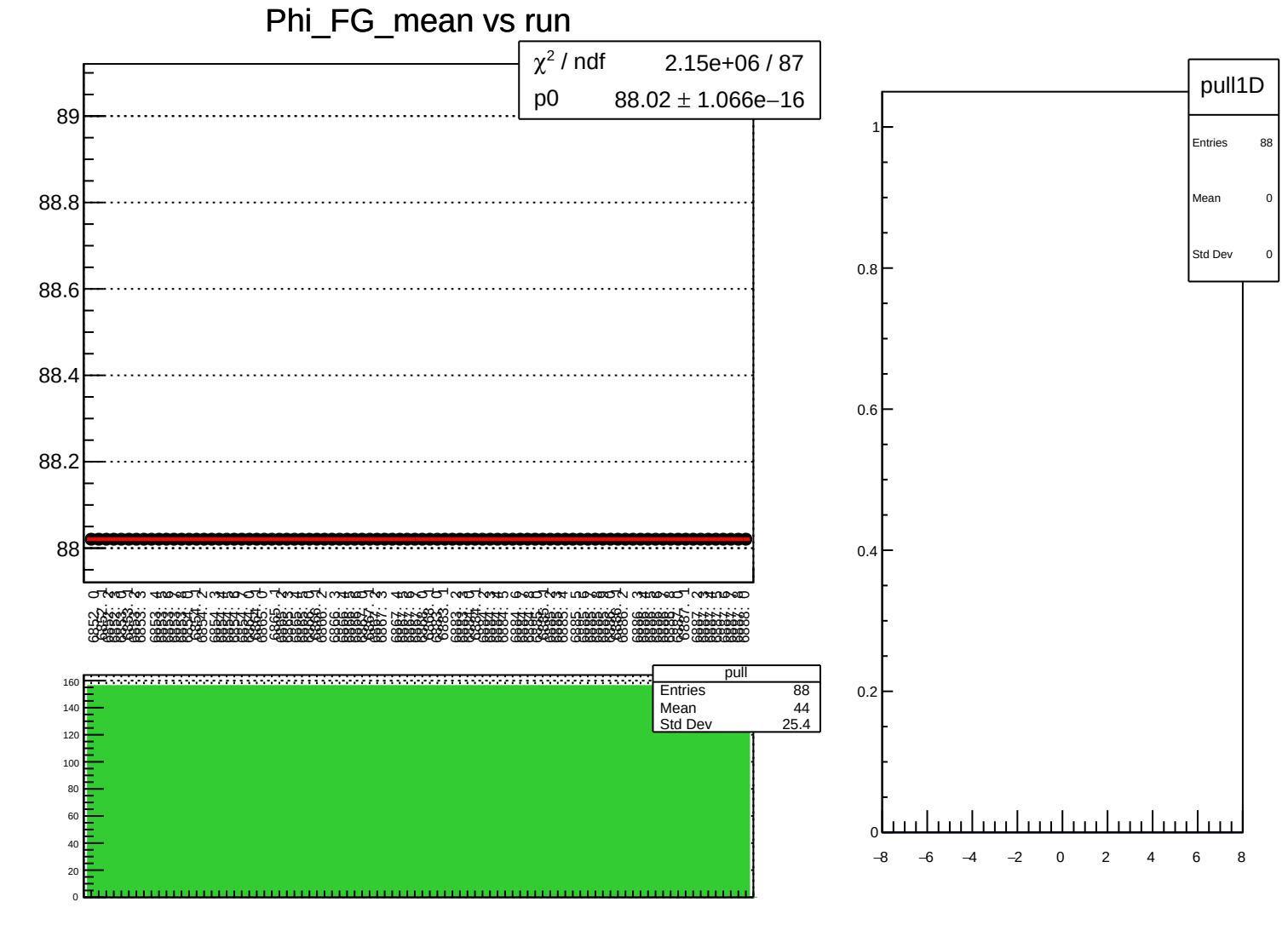

pull1D
Entries 88
Mean 0.02255
Std Dev 0

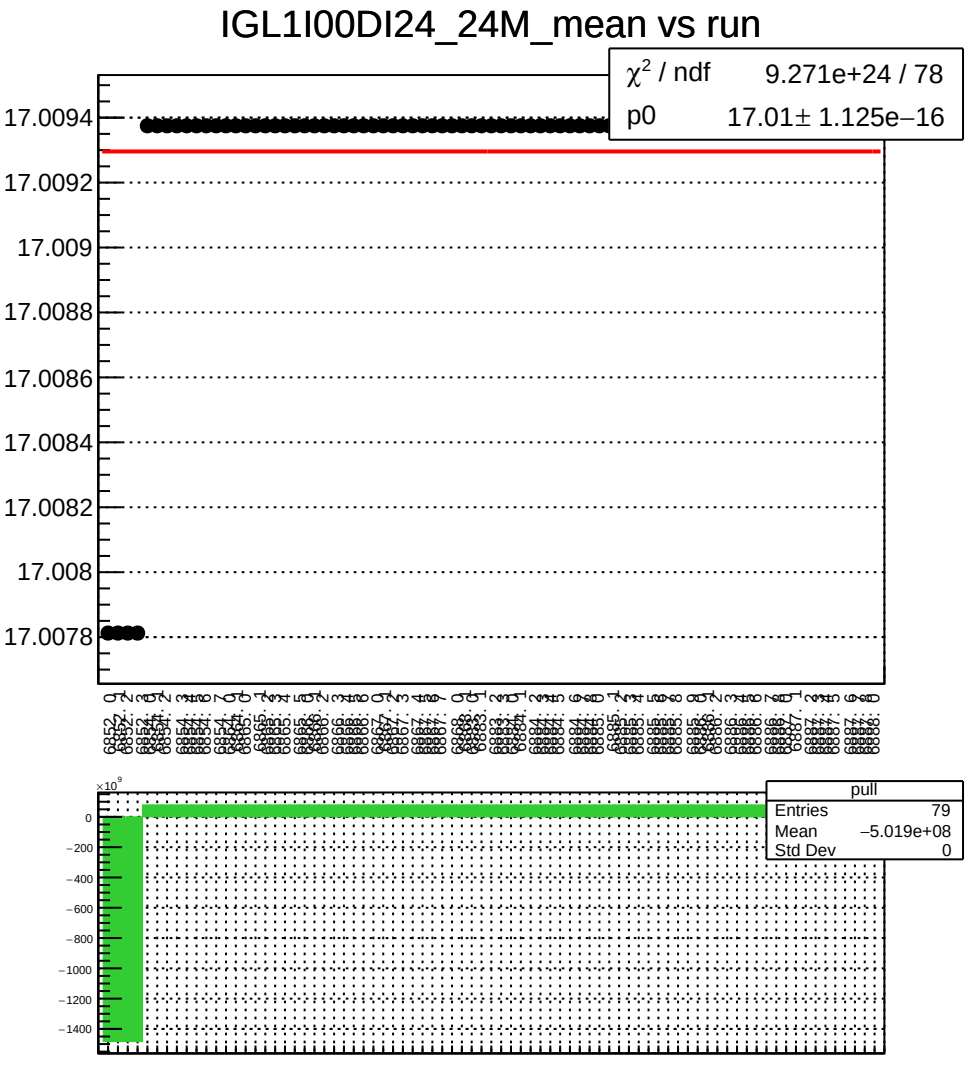

VWienAngle_mean vs run
χ² / ndf 3.483e+06 / 87
p0 −90.6 ± 1.066e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 88
Mean 44
Std Dev 25.4
0
−50
−100
−150
−200
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

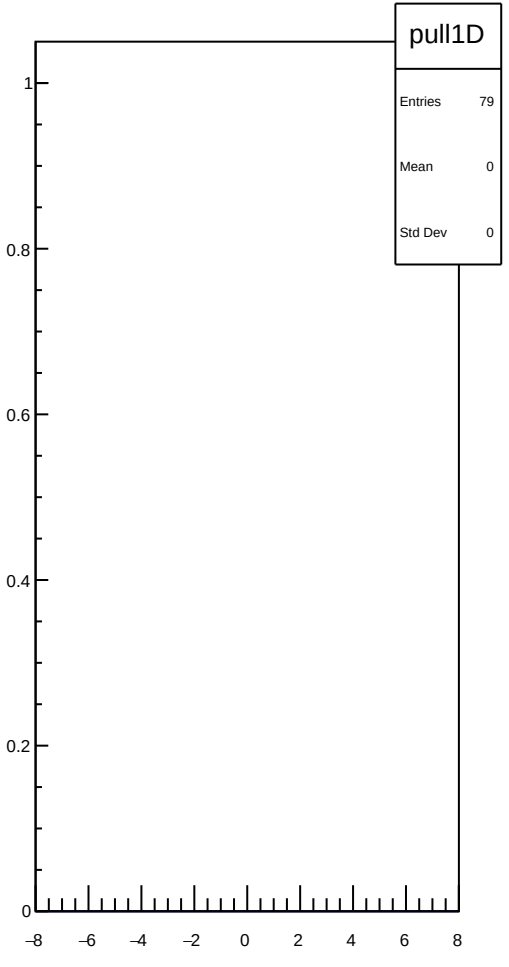

HWienAngle_mean vs run
χ² / ndf 4.443e+05 / 87
p0 −29.64 ± 1.066e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 88
Mean 44
Std Dev 25.4
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

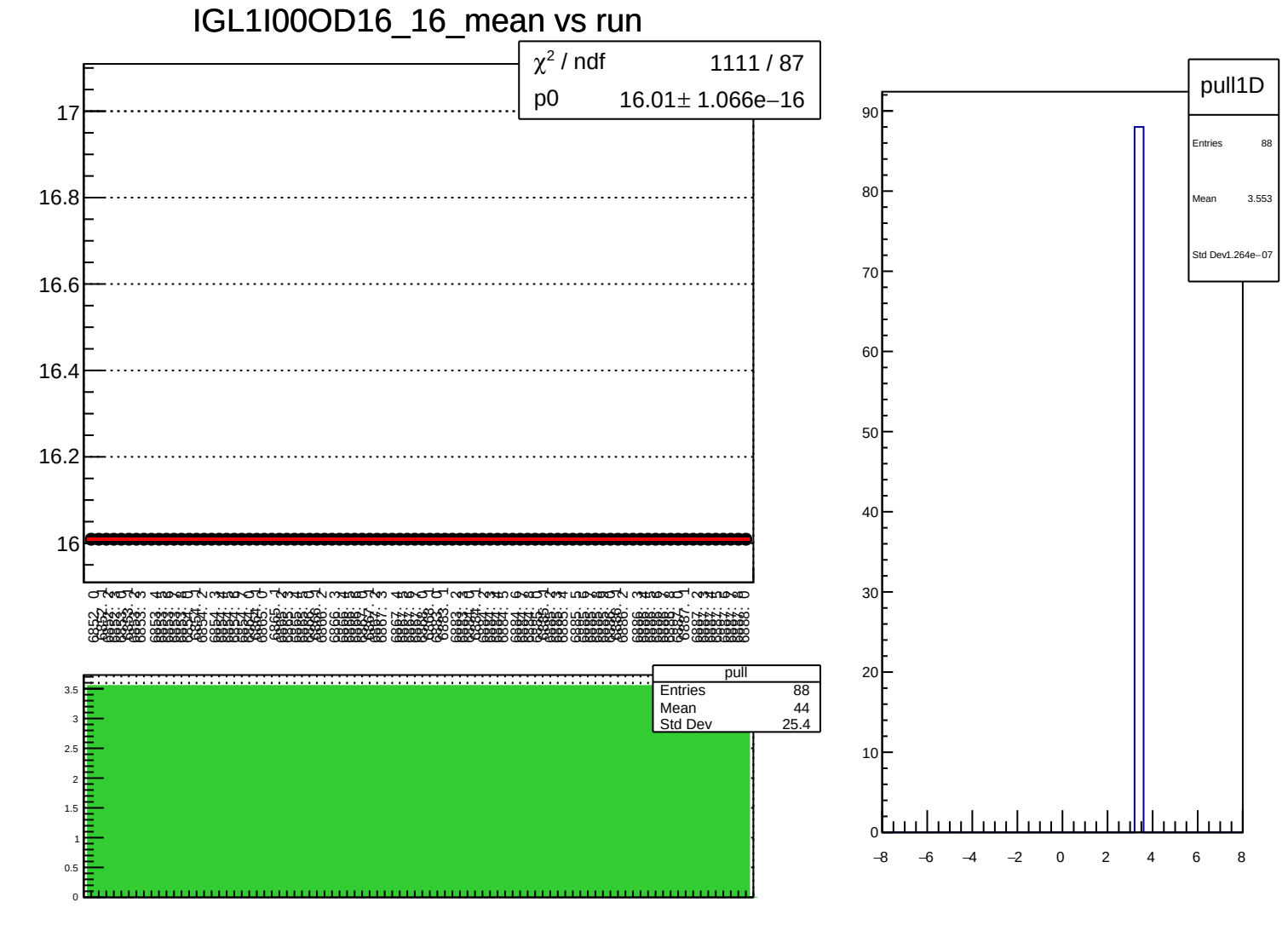

psub_pl_pos_mean vs run
χ² / ndf 1.024e+09 / 87
p0 1468 ± 1.066e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 88
Mean 44
Std Dev 25.4
3500
3000
2500
2000
1500
1000
500
0

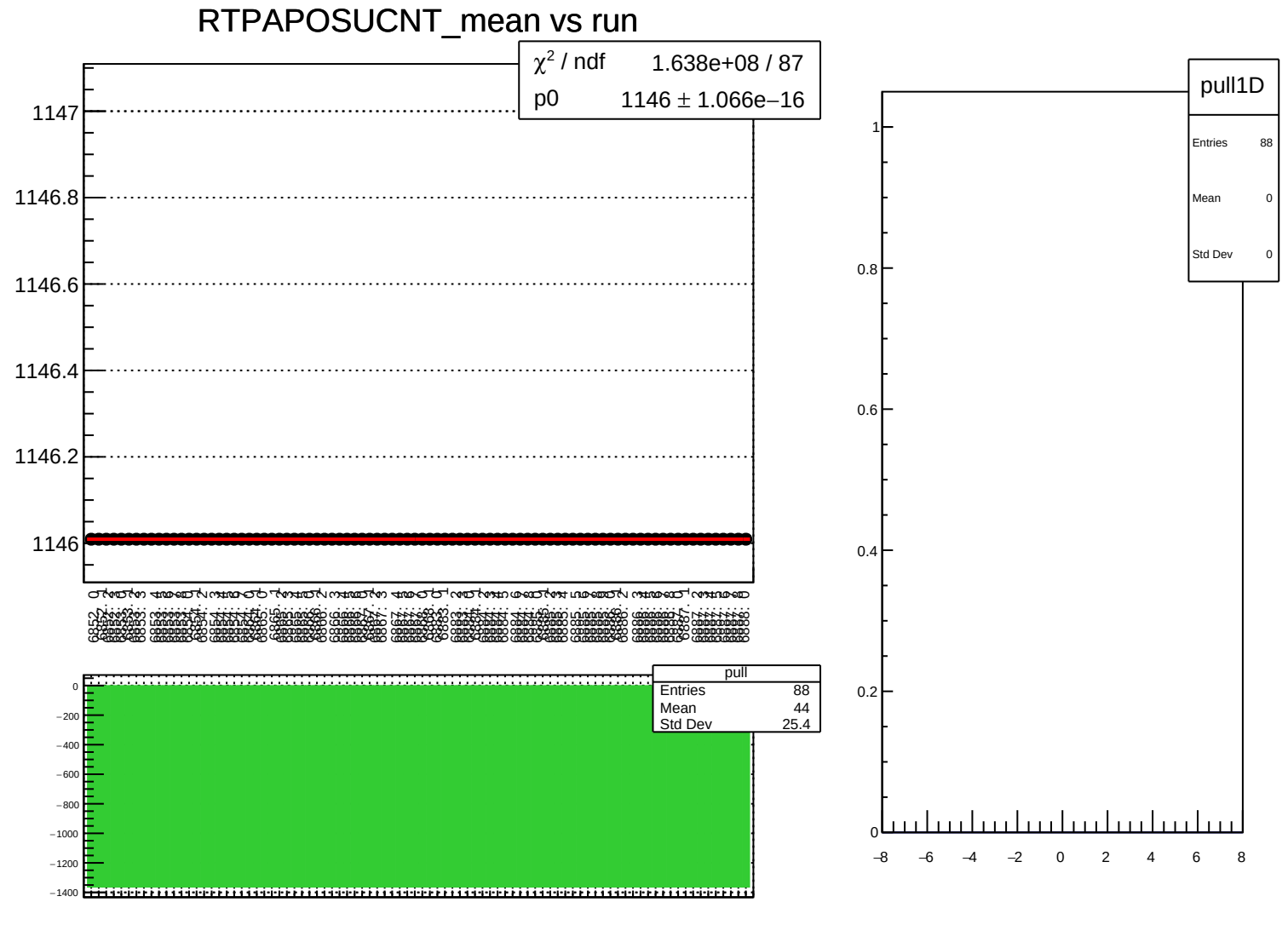

pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

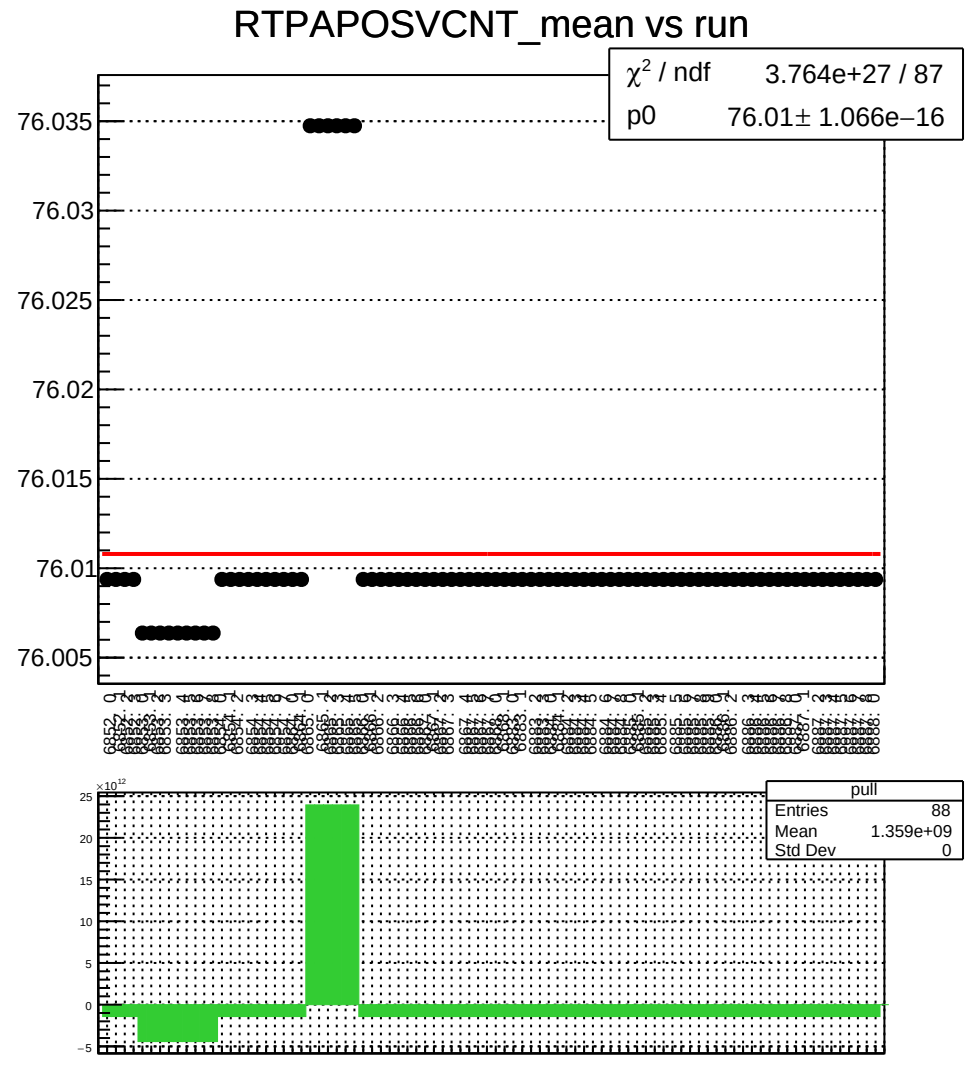

Phi_FG_mean vs run
χ² / ndf 2.15e+06 / 87
p0 88.02 ± 1.066e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 88
Mean 44
Std Dev 25.4
160
140
120
100
80
60
40
20
0
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

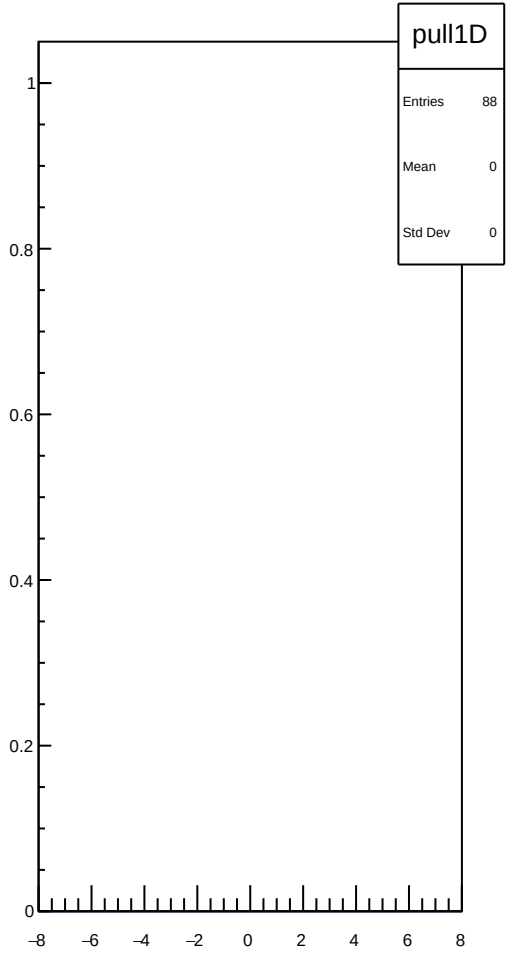

IGL1I00DI24_24M_mean vs run
χ² / ndf 9.271e+24 / 78
p0 17.01± 1.125e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
×10⁹
0
−200
−400
−600
−800
−1000
−1200
−1400
pull
Entries 79
Mean −5.019e+08
Std Dev 0

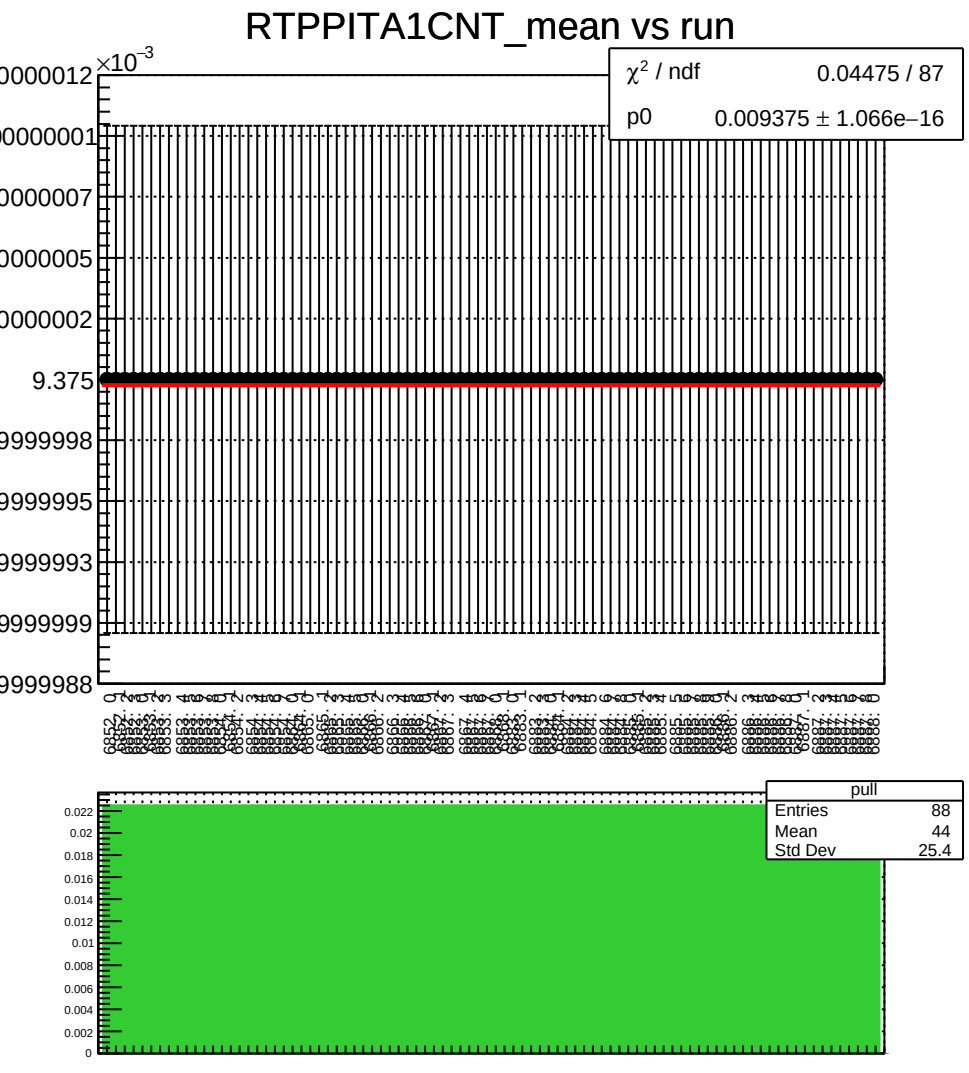

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

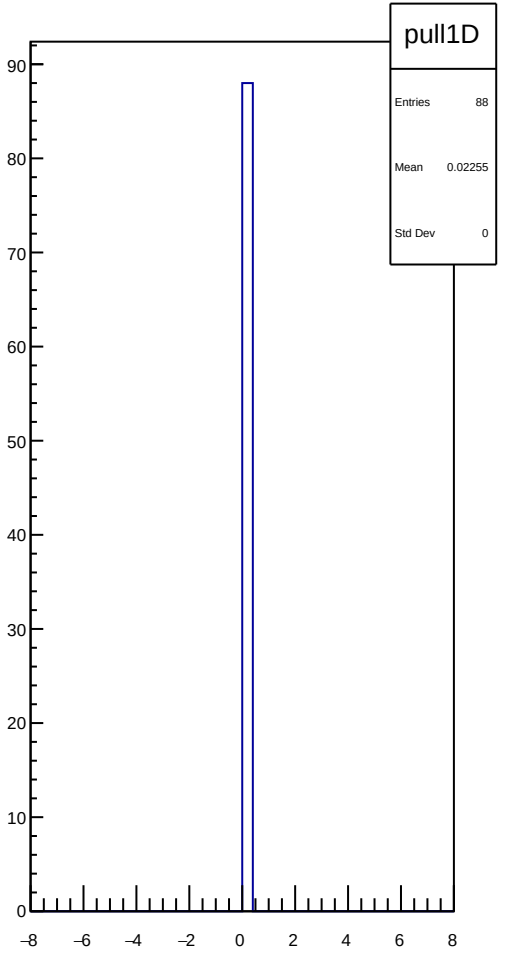

IGL1I00OD16_16_mean vs run
χ² / ndf 1111 / 87
p0 16.01± 1.066e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 88
Mean 44
Std Dev 25.4
3.5
3
2.5
2
1.5
1
0.5
0
pull1D
Entries 88
Mean 3.553
Std Dev1.264e−07
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

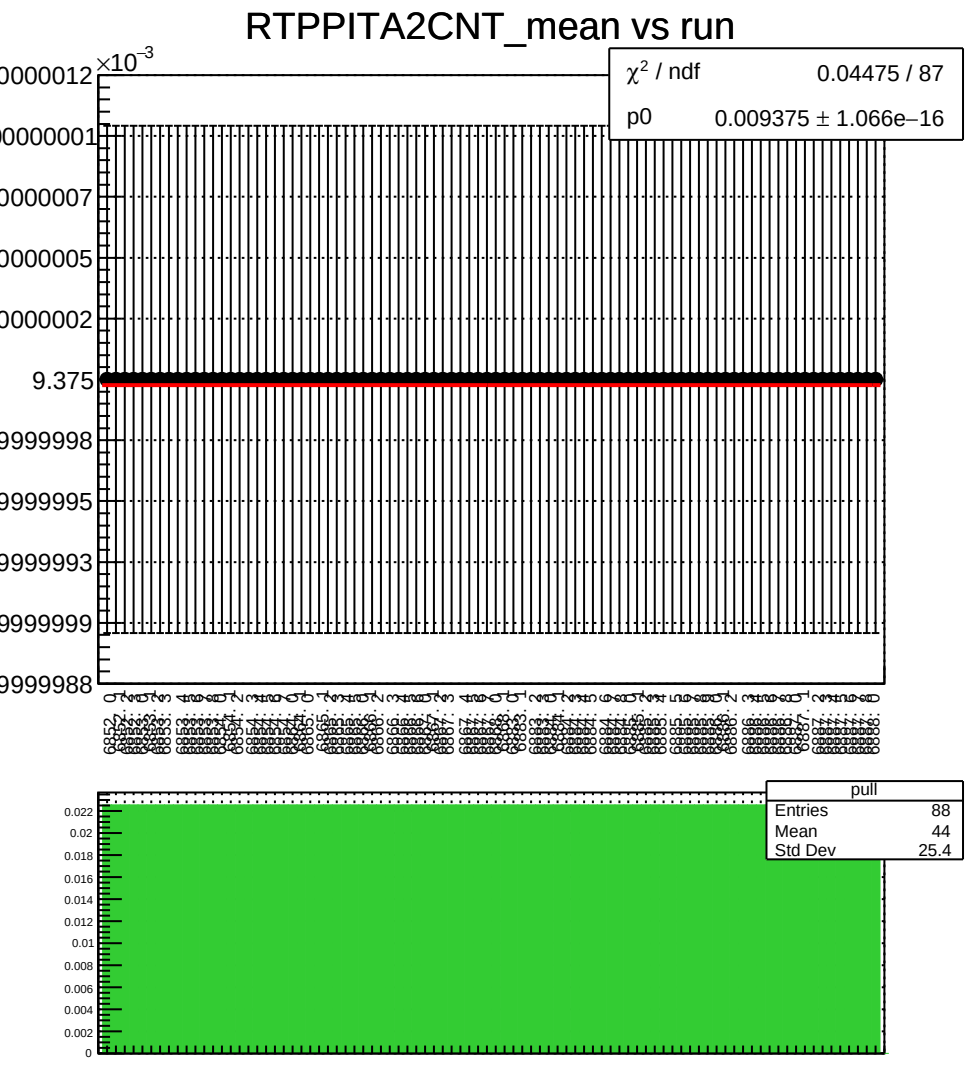

RTPAPOSUCNT_mean vs run
χ² / ndf 1.638e+08 / 87
p0 1146 ± 1.066e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
pull
Entries 88
Mean 44
Std Dev 25.4
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 88
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

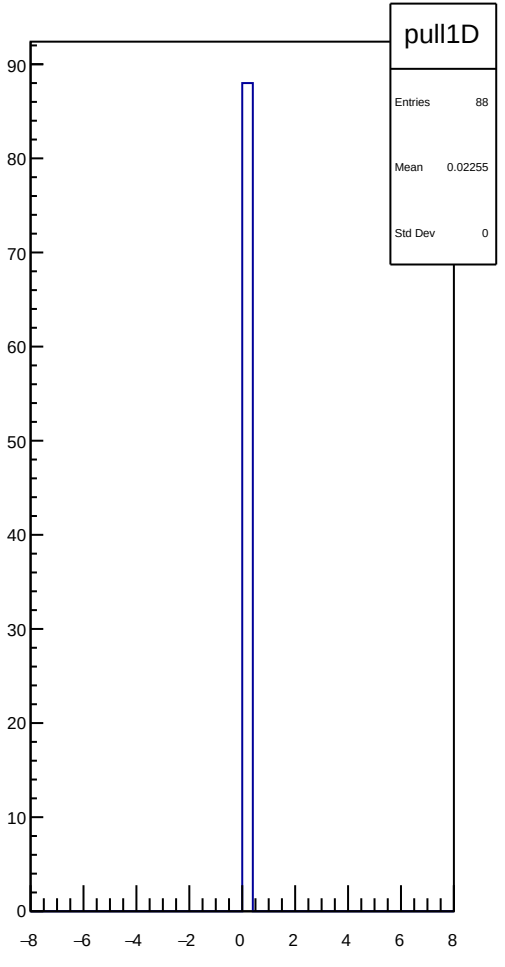

RTPAPOSVCNT_mean vs run
χ² / ndf 3.764e+27 / 87
p0 76.01± 1.066e−16
76.035
76.03
76.025
76.02
76.015
76.01
76.005
pull
Entries 88
Mean 1.359e+09
Std Dev 0
×10¹²
25
20
15
10
5
0
−5


pull1D
Entries 88
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 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
pull
Entries 88
Mean 44
Std Dev 25.4


pull1D
Entries 88
Mean 0.02255
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.04475 / 87
p0 0.009375 ± 1.066e−16
×10⁻³
9.375
pull
Entries 88
Mean 44
Std Dev 25.4


pull1D
Entries 88
Mean 0.02255
Std Dev 0